

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG042915\
 Data File : BG016822.D
 Acq On : 30 Apr 2015 6:41
 Operator : TP/IZ
 Sample : G2031-02 5X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB2

Quant Time: Apr 30 07:33:20 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG042915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 30 02:30:36 2015
 Response via : Initial Calibration

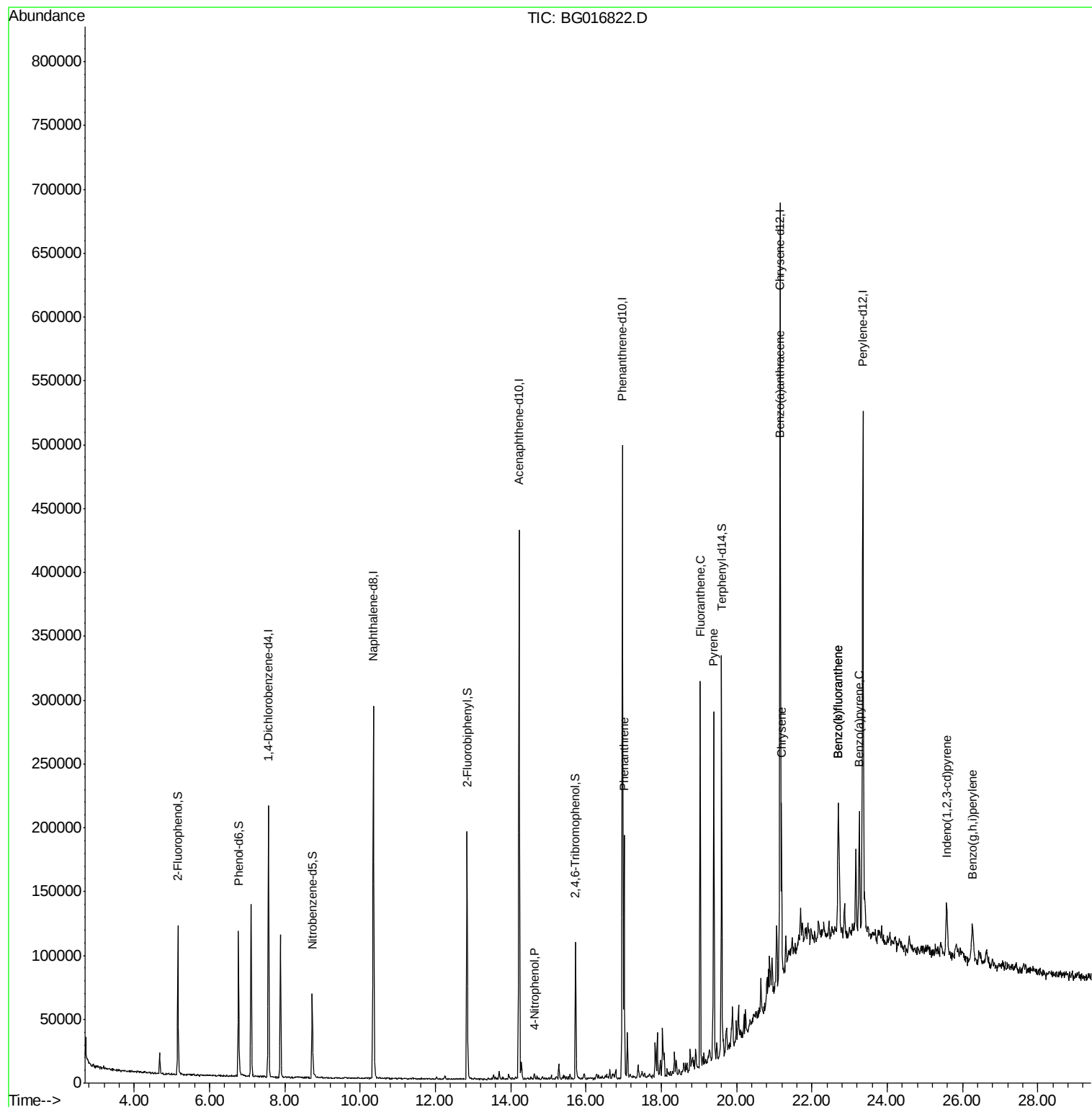
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.56	152	62374	20.00	ng	0.00
21) Naphthalene-d8	10.35	136	266680	20.00	ng	0.00
38) Acenaphthene-d10	14.22	164	148467	20.00	ng	0.00
63) Phenanthrene-d10	16.97	188	275803	20.00	ng	0.00
75) Chrysene-d12	21.16	240	237239	20.00	ng	0.00
86) Perylene-d12	23.36	264	226448	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.15	112	63833	18.85	ng	0.00
7) Phenol-d6	6.76	99	85412	17.97	ng	0.00
23) Nitrobenzene-d5	8.73	82	44080	10.77	ng	0.00
41) 2,4,6-Tribromophenol	15.72	330	17488	15.82	ng	0.00
44) 2-Fluorobiphenyl	12.84	172	113382	11.82	ng	0.00
78) Terphenyl-d14	19.60	244	117649	11.96	ng	0.00
Target Compounds						
55) 4-Nitrophenol	14.63	139	1009	6.67	ng	22
70) Phenanthrene	17.01	178	111123	7.45	ng	98
74) Fluoranthene	19.03	202	160959	10.04	ng	98
77) Pyrene	19.40	202	156853	10.11	ng	99
80) Benzo(a)anthracene	21.14	228	71158	5.19	ng	98
82) Chrysene	21.19	228	63068	4.87	ng	98
85) Indeno(1,2,3-cd)pyrene	25.58	276	33471	2.27	ng	91
87) Benzo(b)fluoranthene	22.70	252	99334	7.70	ng	97
88) Benzo(k)fluoranthene	22.70	252	99334	7.87	ng	97
89) Benzo(a)pyrene	23.26	252	56085	4.59	ng	94
91) Benzo(g,h,i)perylene	26.27	276	31692	2.56	ng	98

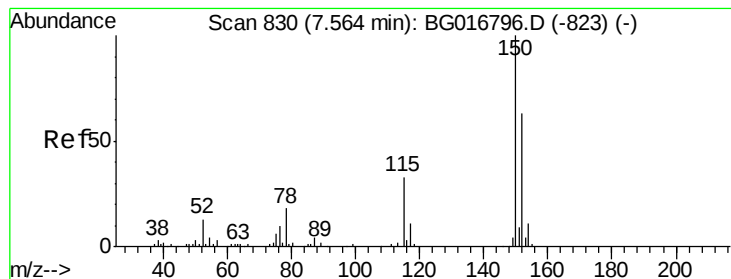
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.56 min Scan# 830

Delta R.T. 0.00 min

Lab File: BG016822.D

Acq: 30 Apr 2015 6:41

Instrument :

BNA_G

ClientSampleId :

SB2

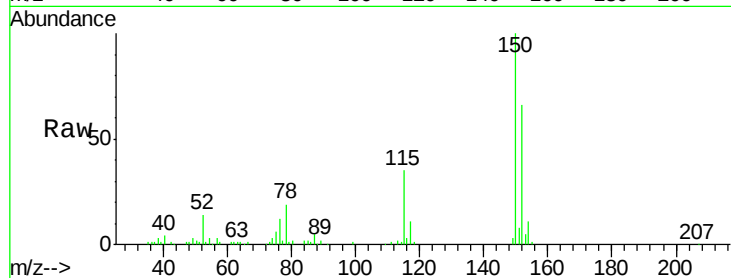
Tgt Ion:152 Resp: 62374

Ion Ratio Lower Upper

152 100

150 152.0 126.2 189.4

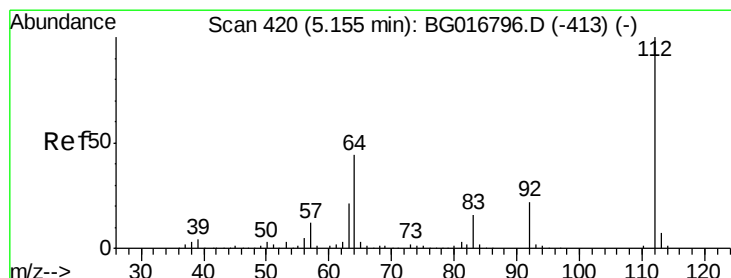
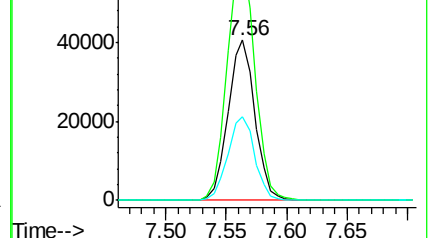
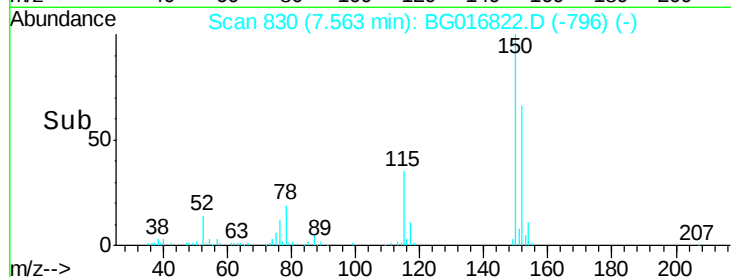
115 52.5 41.1 61.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 18.85 ng

RT: 5.15 min Scan# 420

Delta R.T. 0.00 min

Lab File: BG016822.D

Acq: 30 Apr 2015 6:41

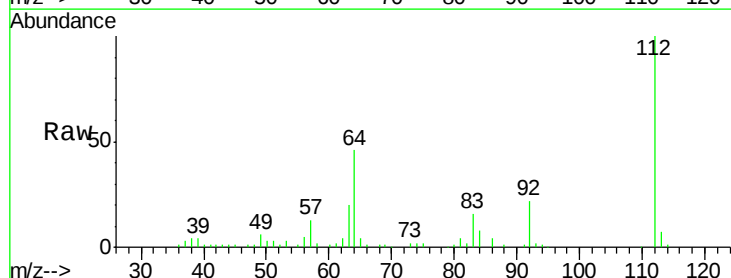
Tgt Ion:112 Resp: 63833

Ion Ratio Lower Upper

112 100

64 45.5 35.5 53.3

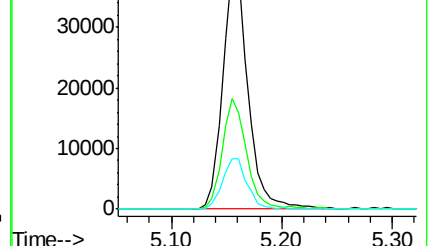
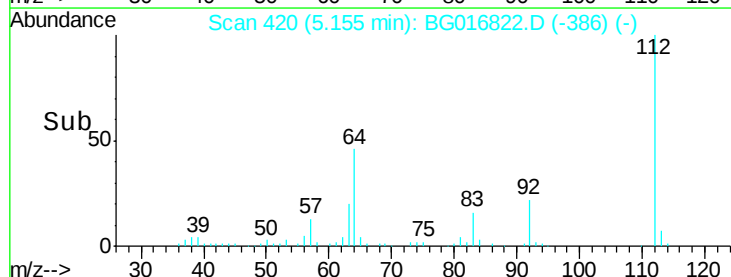
63 20.5 17.2 25.8

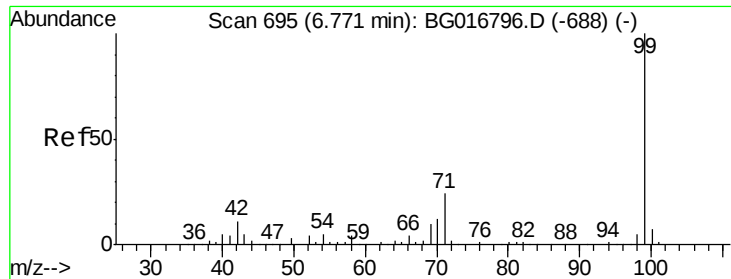


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 17.97 ng

RT: 6.76 min Scan# 694

Delta R.T. -0.00 min

Lab File: BG016822.D

Acq: 30 Apr 2015 6:41

Instrument :

BNA_G

ClientSampleId :

SB2

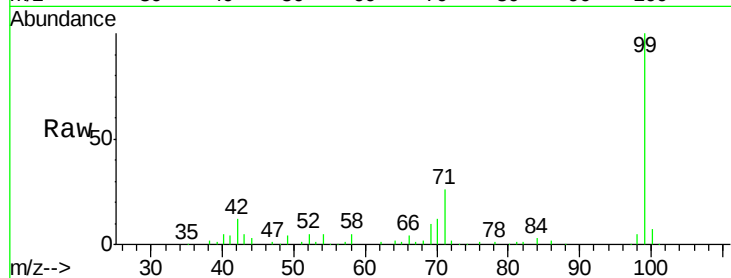
Tgt Ion: 99 Resp: 85412

Ion Ratio Lower Upper

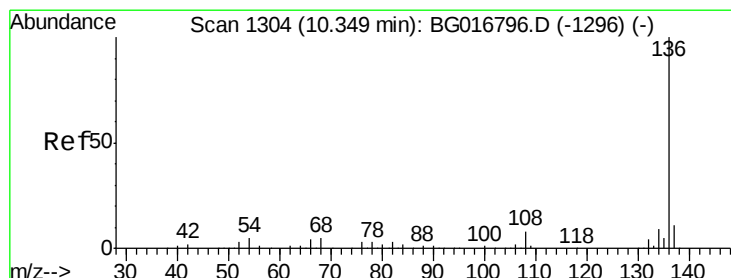
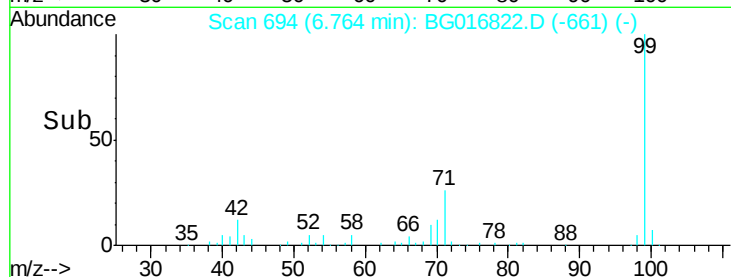
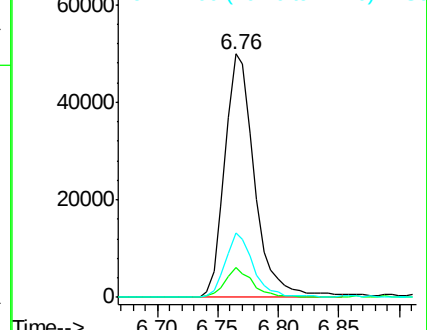
99 100

42 12.5 8.9 13.3

71 26.3 19.0 28.6



Abundance Ion 99.00 (98.70 to 99.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.35 min Scan# 1304

Delta R.T. 0.00 min

Lab File: BG016822.D

Acq: 30 Apr 2015 6:41

Tgt Ion: 136 Resp: 266680

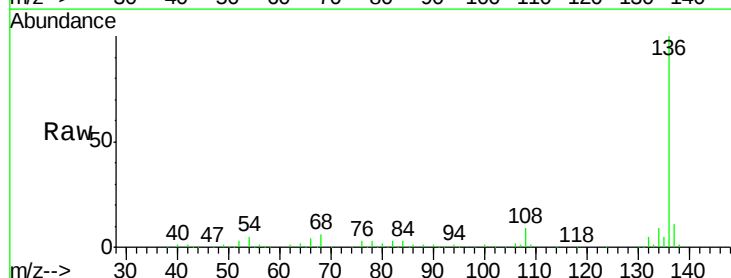
Ion Ratio Lower Upper

136 100

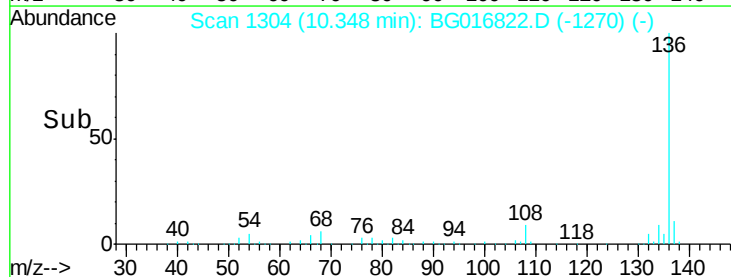
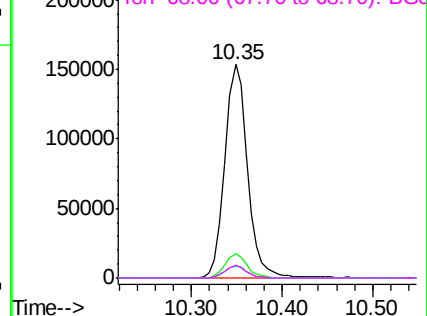
137 11.3 8.6 12.8

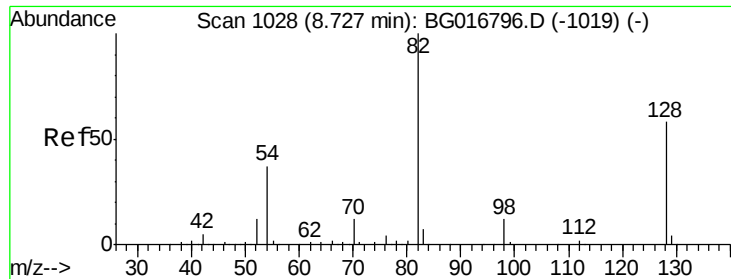
54 5.5 4.3 6.5

68 6.0 4.3 6.5



Abundance Ion 136.00 (135.70 to 136.70): BGC
Ion 137.00 (136.70 to 137.70): BGC
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

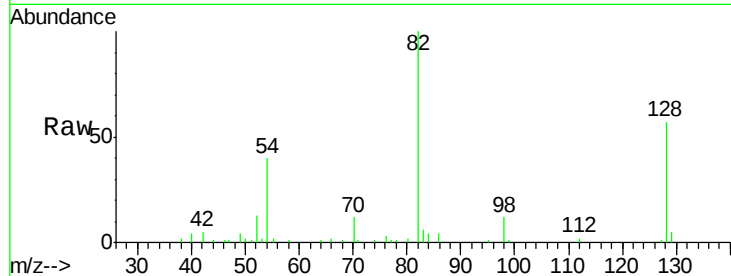




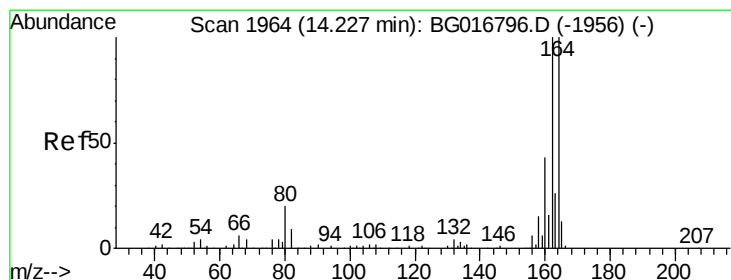
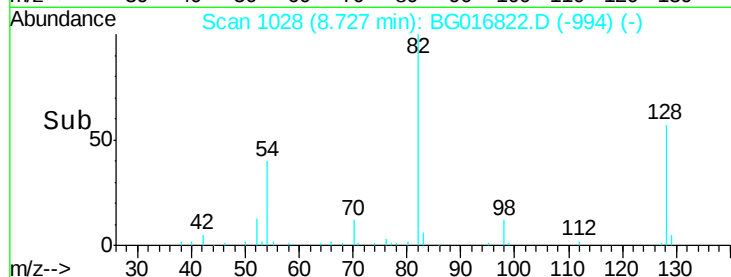
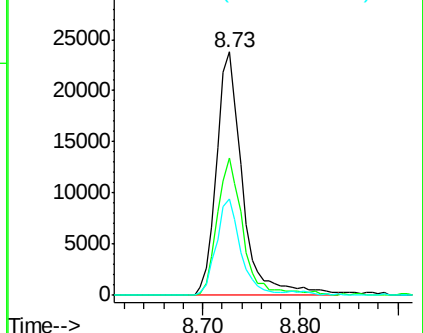
#23
 Nitrobenzene-d5
 Concen: 10.77 ng
 RT: 8.73 min Scan# 1028
 Delta R.T. 0.00 min
 Lab File: BG016822.D
 Acq: 30 Apr 2015 6:41

Instrument :
 BNA_G
 ClientSampleId :
 SB2

Tgt Ion: 82 Resp: 44080
 Ion Ratio Lower Upper
 82 100
 128 56.7 46.3 69.5
 54 39.8 30.0 45.0

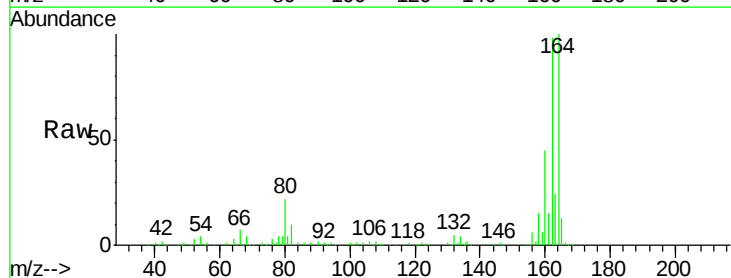


Abundance Ion 82.00 (81.70 to 82.70): BGC
 Ion 128.00 (127.70 to 128.70): BGC
 Ion 54.00 (53.70 to 54.70): BGC

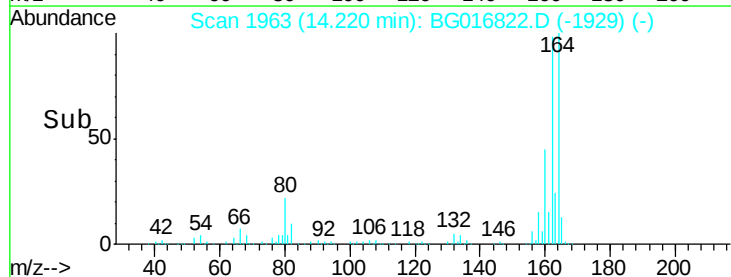
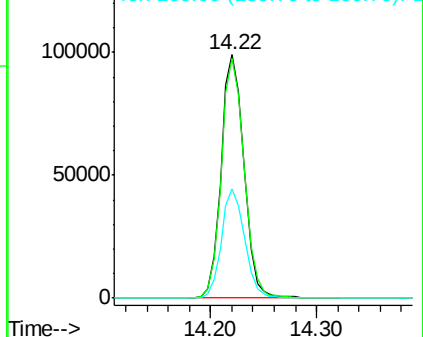


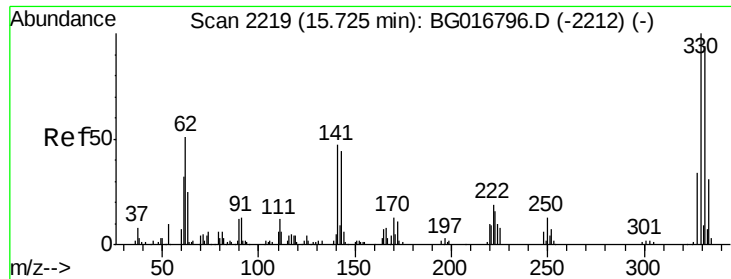
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.22 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: BG016822.D
 Acq: 30 Apr 2015 6:41

Tgt Ion: 164 Resp: 148467
 Ion Ratio Lower Upper
 164 100
 162 98.5 80.2 120.4
 160 44.8 34.8 52.2



Abundance Ion 164.00 (163.70 to 164.70): BGC
 Ion 162.00 (161.70 to 162.70): BGC
 Ion 160.00 (159.70 to 160.70): BGC

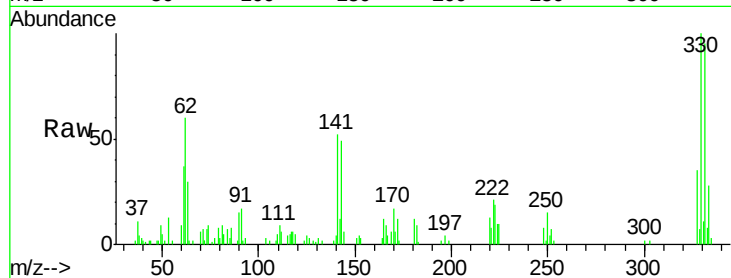




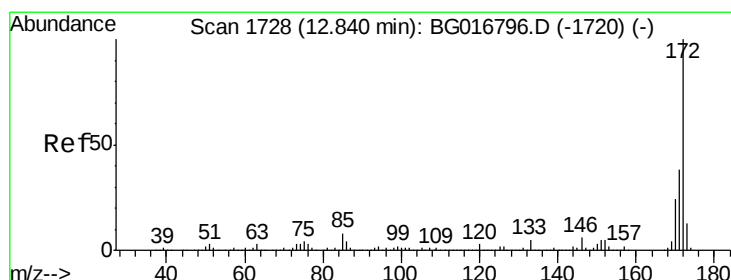
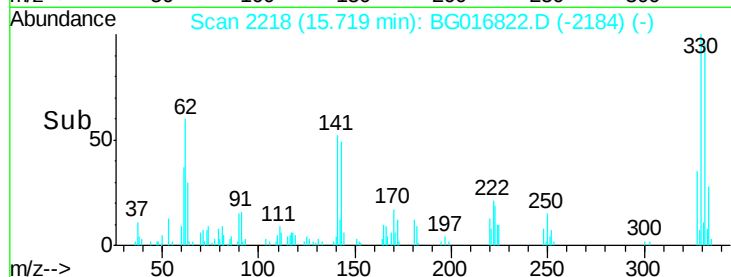
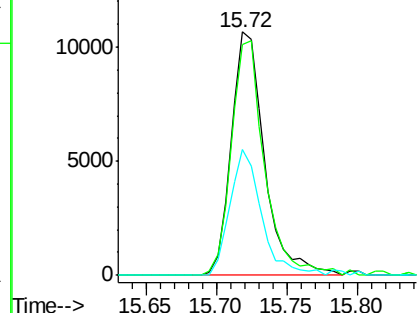
#41
 2,4,6-Tribromophenol
 Concen: 15.82 ng
 RT: 15.72 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: BG016822.D
 Acq: 30 Apr 2015 6:41

Instrument :
 BNA_G
 ClientSampleId :
 SB2

Tgt Ion: 330 Resp: 17488
 Ion Ratio Lower Upper
 330 100
 332 96.3 75.3 112.9
 141 48.8 40.7 61.1

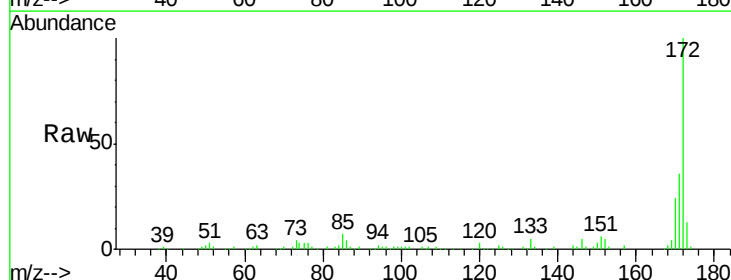


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

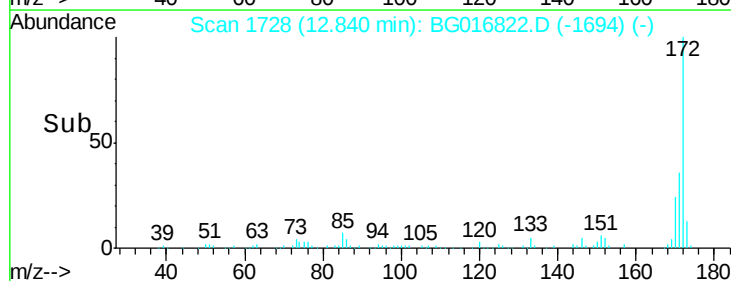
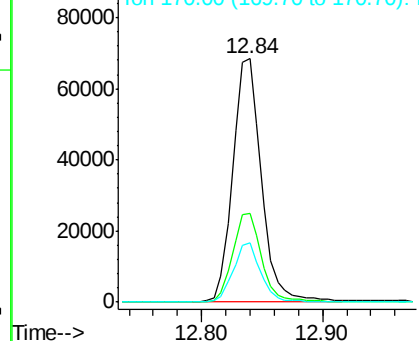


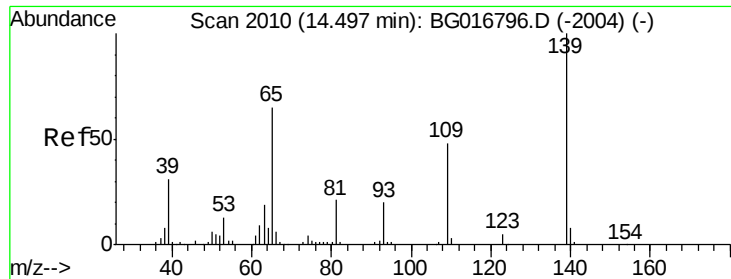
#44
 2-Fluorobiphenyl
 Concen: 11.82 ng
 RT: 12.84 min Scan# 1728
 Delta R.T. 0.00 min
 Lab File: BG016822.D
 Acq: 30 Apr 2015 6:41

Tgt Ion: 172 Resp: 113382
 Ion Ratio Lower Upper
 172 100
 171 36.4 30.2 45.4
 170 24.1 19.4 29.0



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

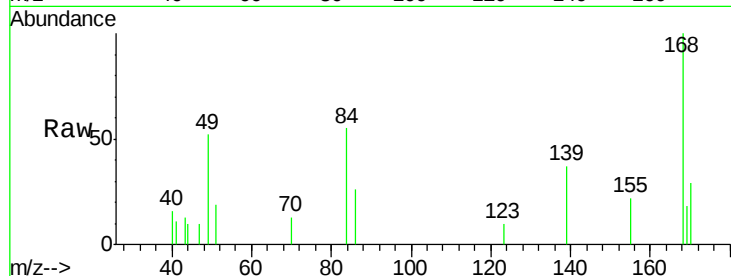




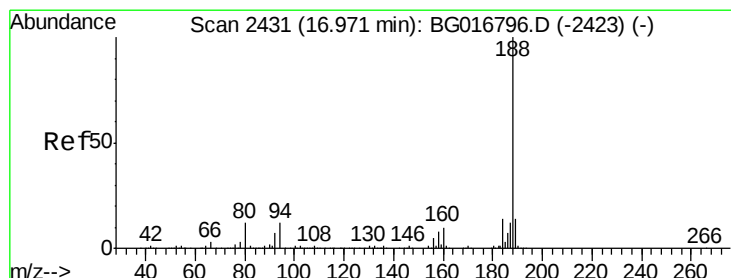
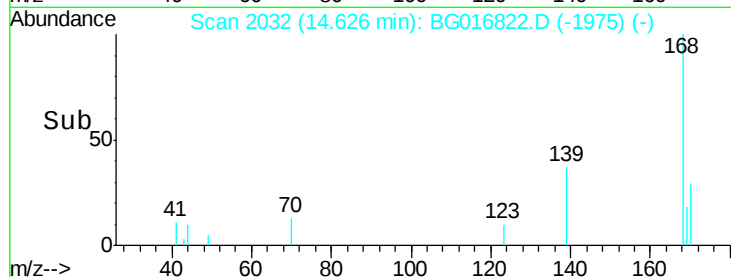
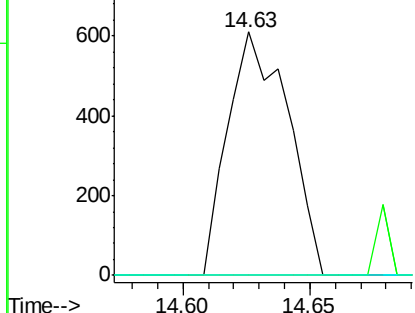
#55
4-Nitrophenol
Concen: 6.67 ng
RT: 14.63 min Scan# 2032
Delta R.T. 0.14 min
Lab File: BG016822.D
Acq: 30 Apr 2015 6:41

Instrument :
BNA_G
ClientSampleId :
SB2

Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.0	27.8	67.8#
65	0.0	45.4	85.4#

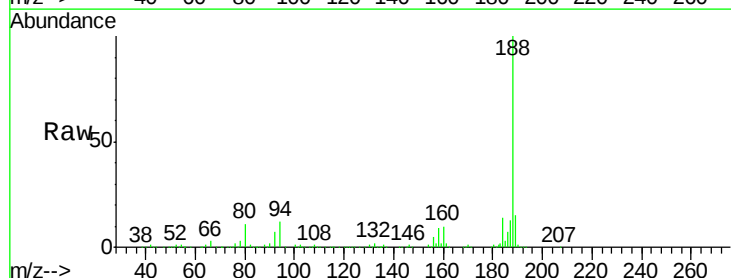


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BGC

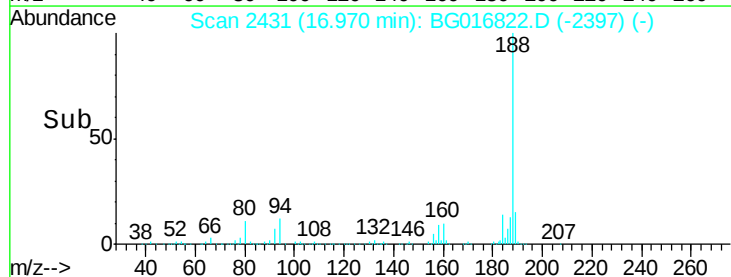
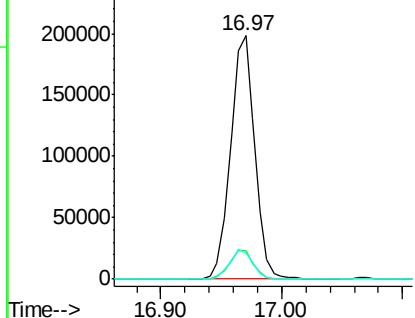


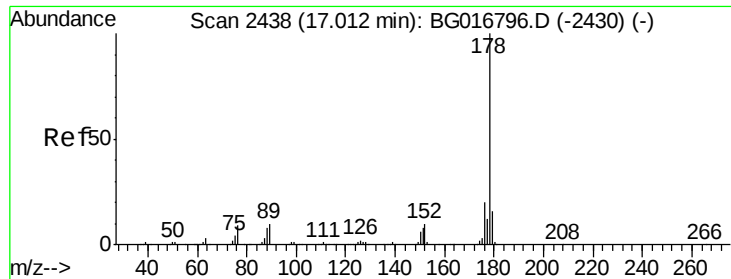
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 16.97 min Scan# 2431
Delta R.T. 0.00 min
Lab File: BG016822.D
Acq: 30 Apr 2015 6:41

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.7	9.5	14.3
80	11.0	9.2	13.8



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BGC
Ion 80.00 (79.70 to 80.70): BGC





#70

Phenanthrene

Concen: 7.45 ng

RT: 17.01 min Scan# 2438

Delta R.T. 0.00 min

Lab File: BG016822.D

Acq: 30 Apr 2015 6:41

Instrument :

BNA_G

ClientSampleId :

SB2

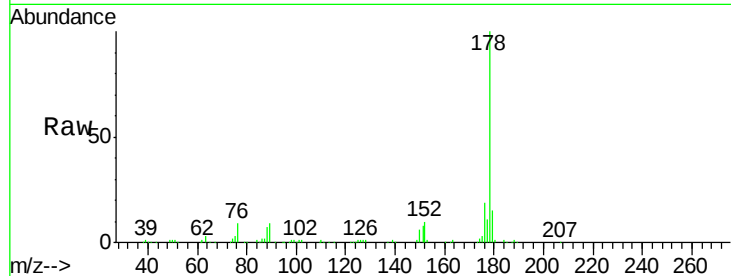
Tgt Ion:178 Resp: 111123

Ion Ratio Lower Upper

178 100

176 18.9 15.9 23.9

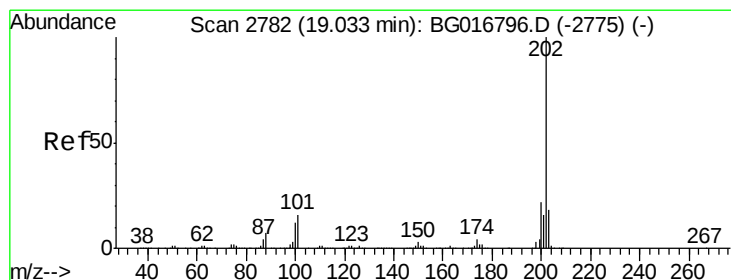
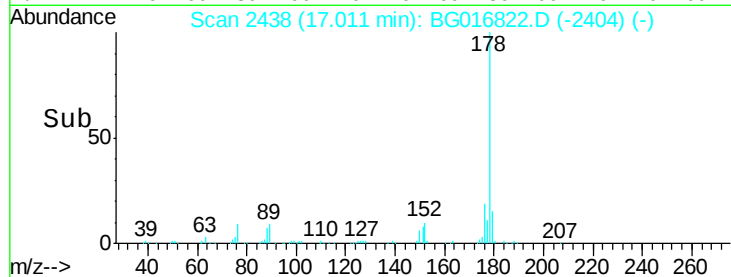
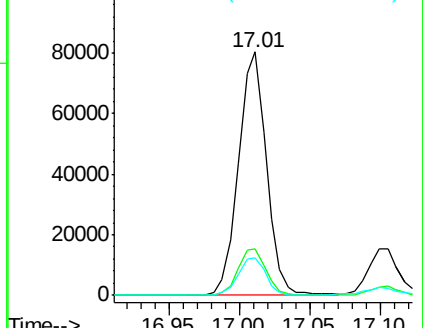
179 15.5 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 10.04 ng

RT: 19.03 min Scan# 2782

Delta R.T. 0.00 min

Lab File: BG016822.D

Acq: 30 Apr 2015 6:41

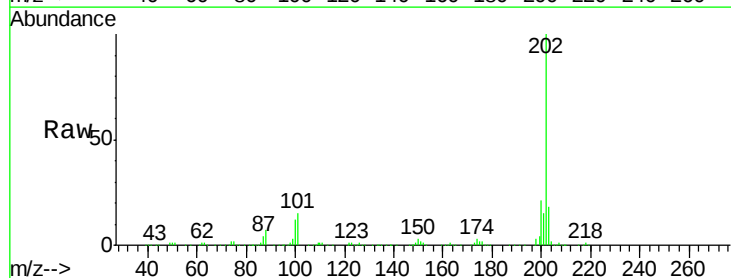
Tgt Ion:202 Resp: 160959

Ion Ratio Lower Upper

202 100

101 14.9 0.0 36.2

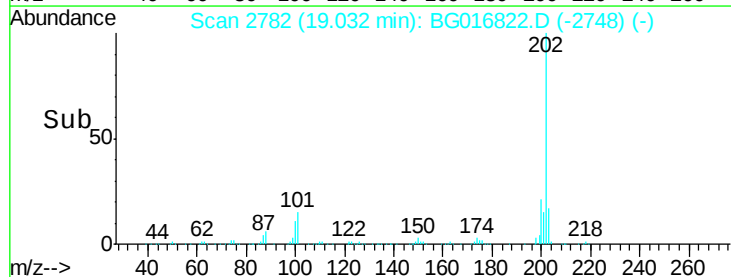
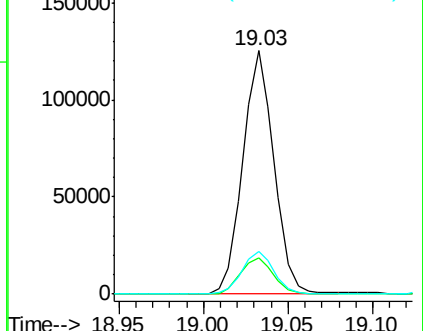
203 17.8 0.0 37.6

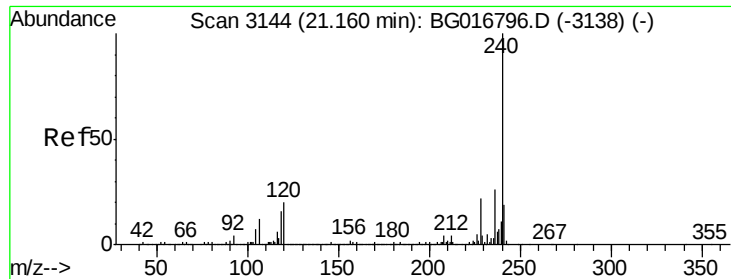


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.16 min Scan# 3144

Delta R.T. 0.00 min

Lab File: BG016822.D

Acq: 30 Apr 2015 6:41

Instrument :

BNA_G

ClientSampleId :

SB2

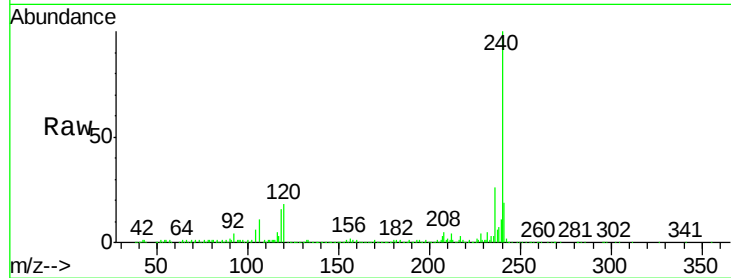
Tgt Ion:240 Resp: 237239

Ion Ratio Lower Upper

240 100

120 17.9 16.1 24.1

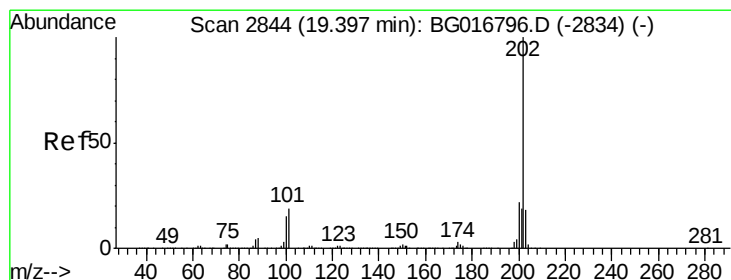
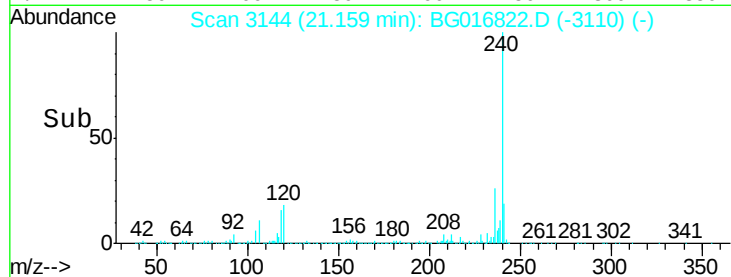
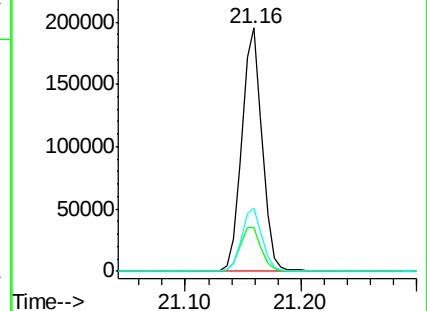
236 25.8 21.0 31.6



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 10.11 ng

RT: 19.40 min Scan# 2844

Delta R.T. 0.00 min

Lab File: BG016822.D

Acq: 30 Apr 2015 6:41

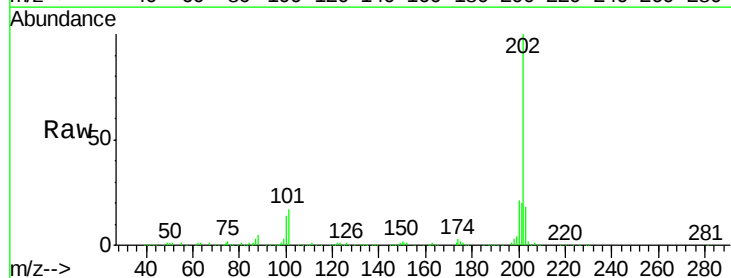
Tgt Ion:202 Resp: 156853

Ion Ratio Lower Upper

202 100

200 21.0 17.3 25.9

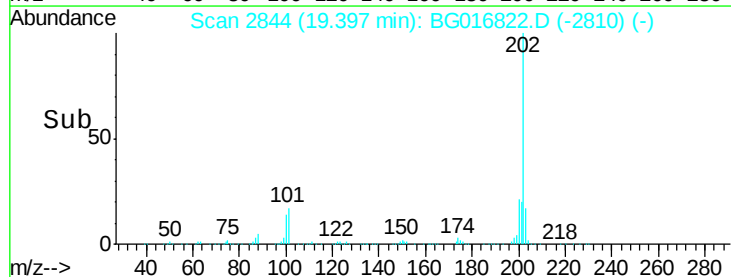
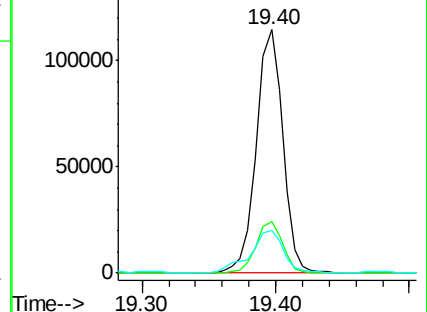
203 17.5 14.6 22.0

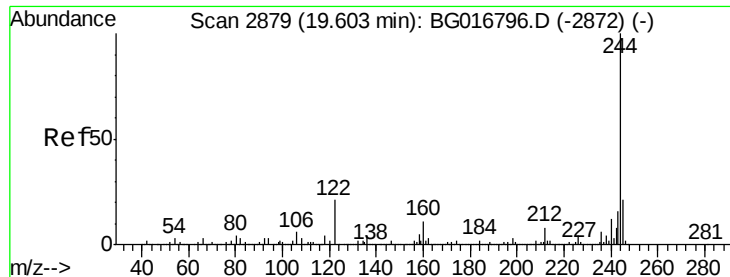


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 11.96 ng

RT: 19.60 min Scan# 2879

Delta R.T. -0.00 min

Lab File: BG016822.D

Acq: 30 Apr 2015 6:41

Instrument :

BNA_G

ClientSampleId :

SB2

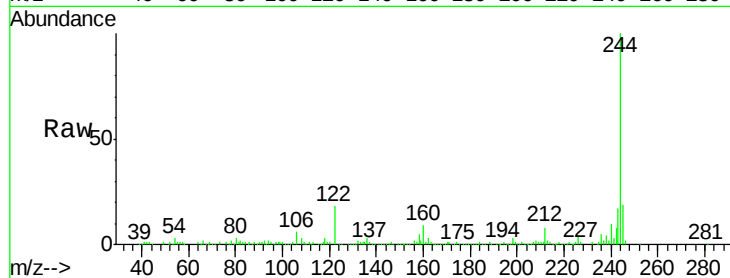
Tgt Ion:244 Resp: 117649

Ion Ratio Lower Upper

244 100

212 7.6 6.4 9.6

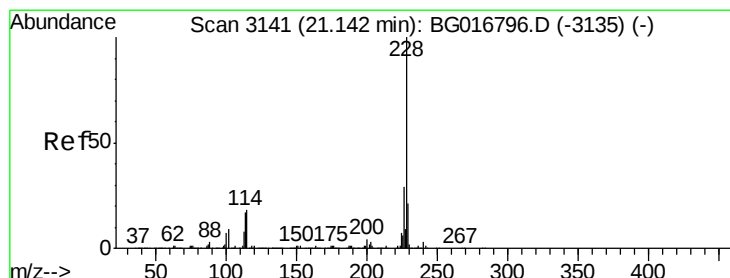
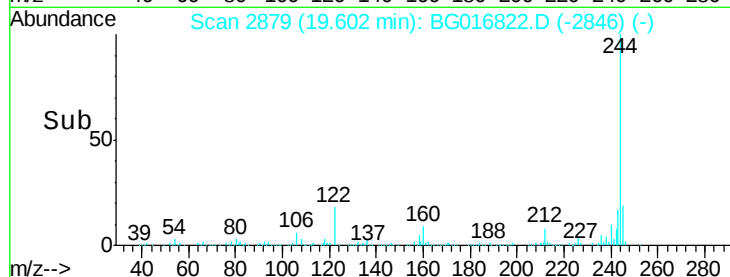
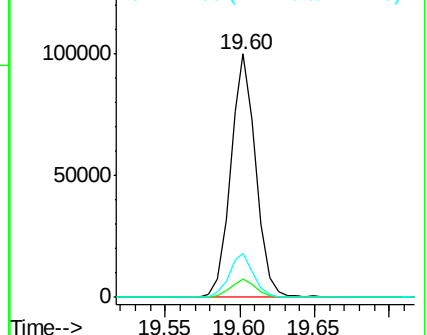
122 17.8 16.4 24.6



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 5.19 ng

RT: 21.14 min Scan# 3141

Delta R.T. -0.00 min

Lab File: BG016822.D

Acq: 30 Apr 2015 6:41

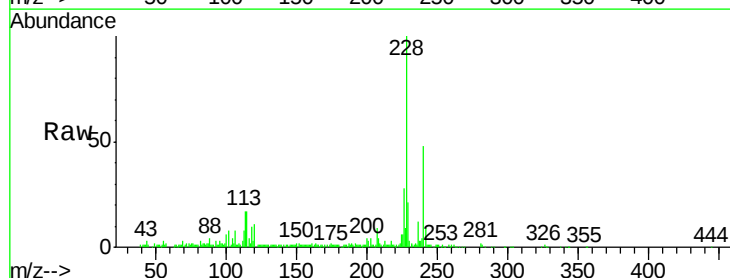
Tgt Ion:228 Resp: 71158

Ion Ratio Lower Upper

228 100

226 28.1 23.4 35.0

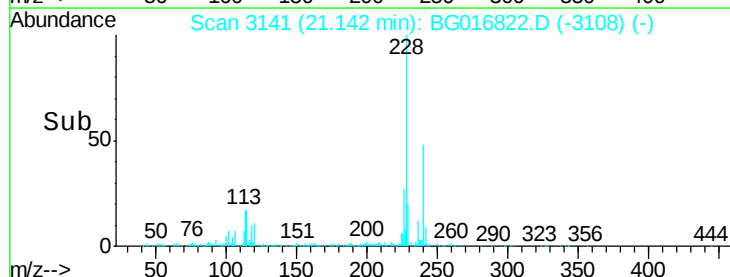
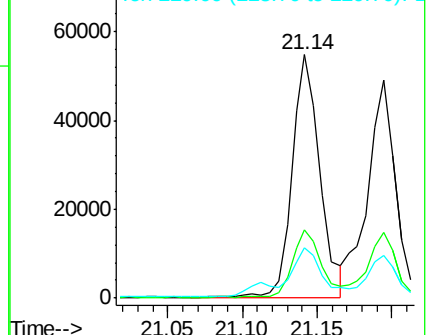
229 20.6 17.0 25.6

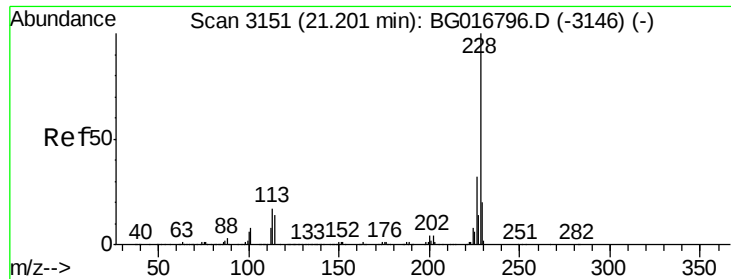


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 4.87 ng

RT: 21.19 min Scan# 3150

Delta R.T. -0.00 min

Lab File: BG016822.D

Acq: 30 Apr 2015 6:41

Instrument :

BNA_G

ClientSampleId :

SB2

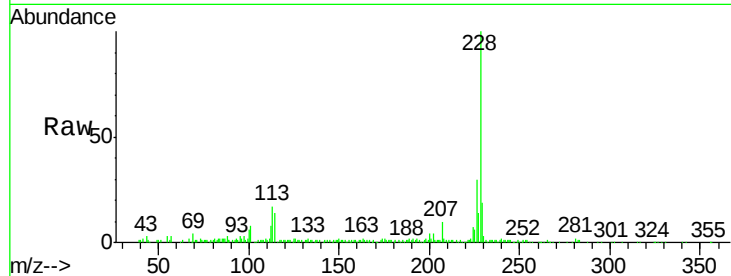
Tgt Ion:228 Resp: 63068

Ion Ratio Lower Upper

228 100

226 29.8 25.1 37.7

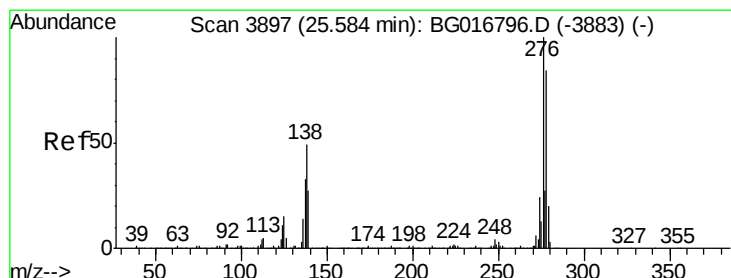
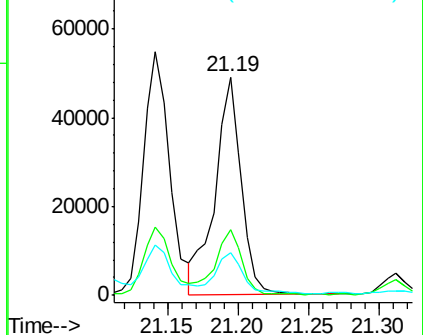
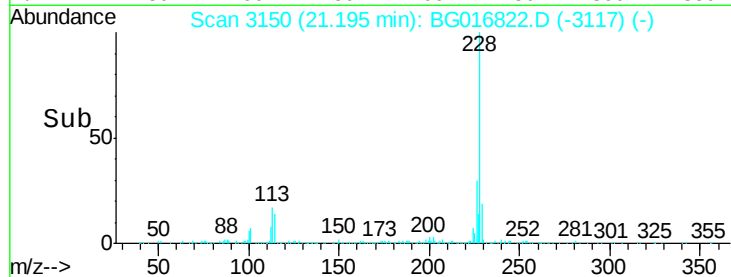
229 19.5 16.1 24.1



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.27 ng

RT: 25.58 min Scan# 3896

Delta R.T. -0.00 min

Lab File: BG016822.D

Acq: 30 Apr 2015 6:41

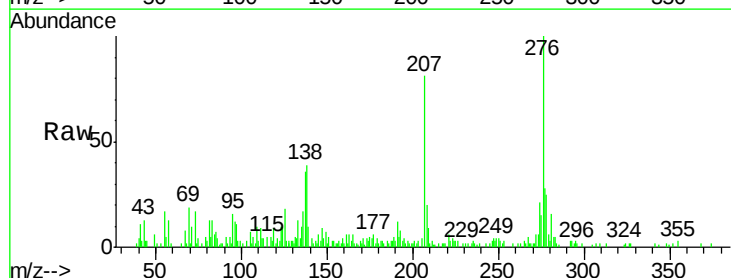
Tgt Ion:276 Resp: 33471

Ion Ratio Lower Upper

276 100

138 38.0 37.0 55.6

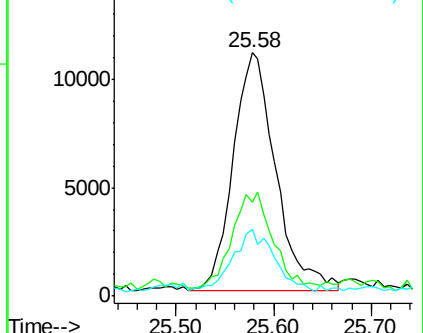
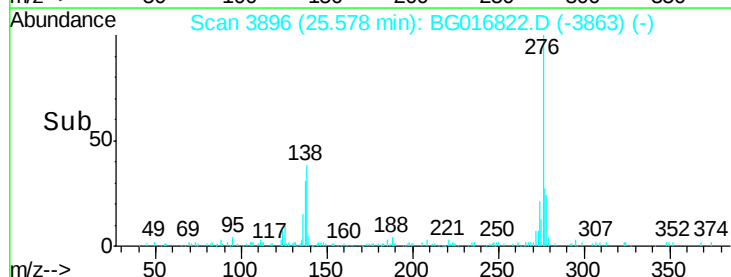
277 25.2 21.4 32.0

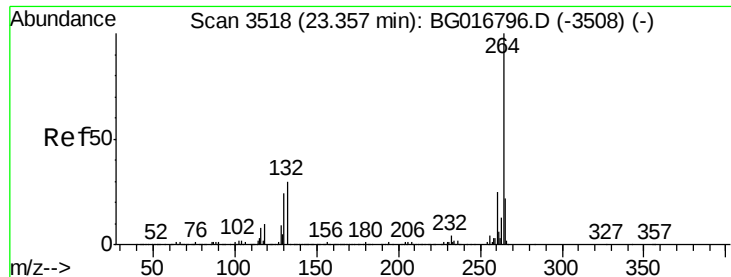


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

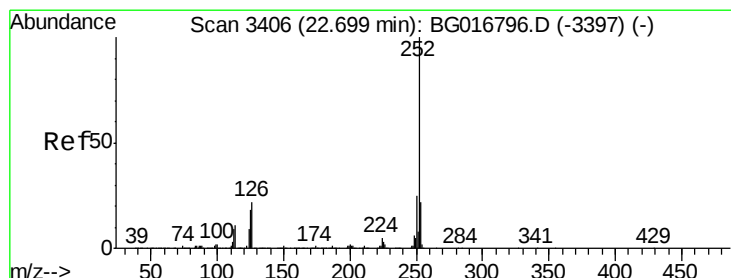
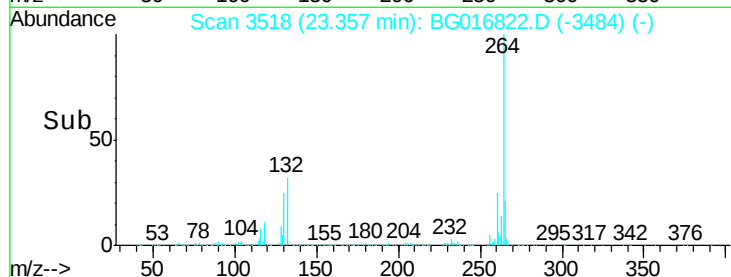
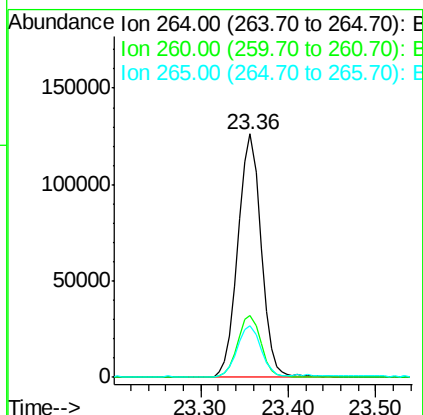
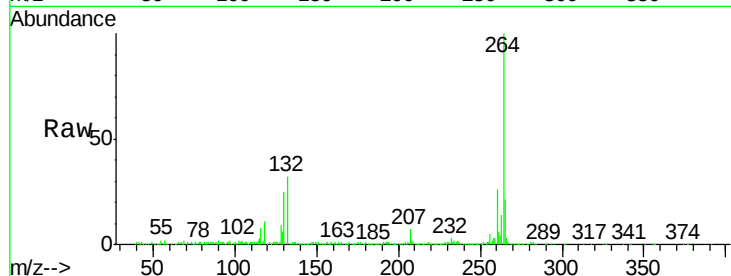




#86
Perylene-d12
Concen: 20.00 ng
RT: 23.36 min Scan# 3518
Delta R.T. 0.00 min
Lab File: BG016822.D
Acq: 30 Apr 2015 6:41

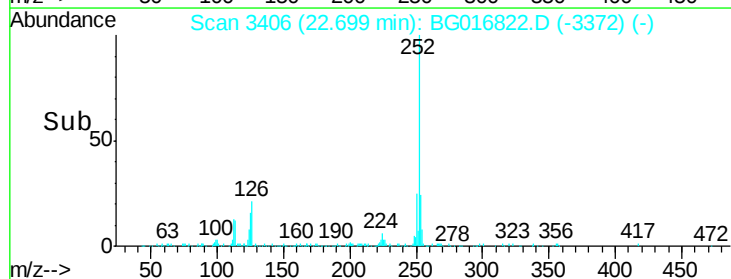
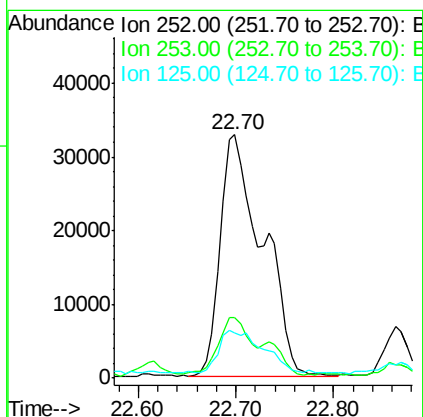
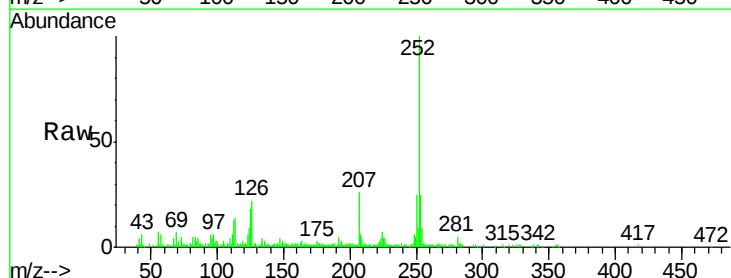
Instrument :
BNA_G
ClientSampleId :
SB2

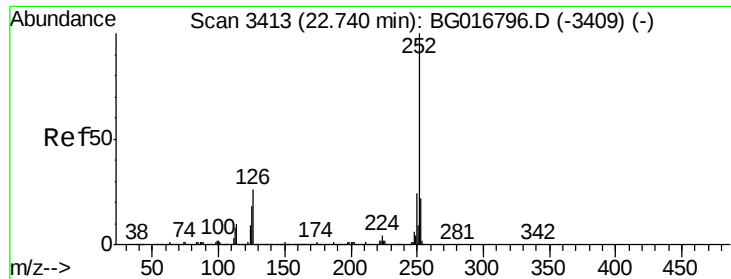
Tgt Ion:264 Resp: 226448
Ion Ratio Lower Upper
264 100
260 25.6 19.7 29.5
265 21.3 17.4 26.2



#87
Benzo(b)fluoranthene
Concen: 7.70 ng
RT: 22.70 min Scan# 3406
Delta R.T. 0.00 min
Lab File: BG016822.D
Acq: 30 Apr 2015 6:41

Tgt Ion:252 Resp: 99334
Ion Ratio Lower Upper
252 100
253 24.8 18.0 27.0
125 18.5 14.2 21.2





#88

Benzo(k)fluoranthene

Concen: 7.87 ng

RT: 22.70 min Scan# 3406

Delta R.T. -0.04 min

Lab File: BG016822.D

Acq: 30 Apr 2015 6:41

Instrument :

BNA_G

ClientSampleId :

SB2

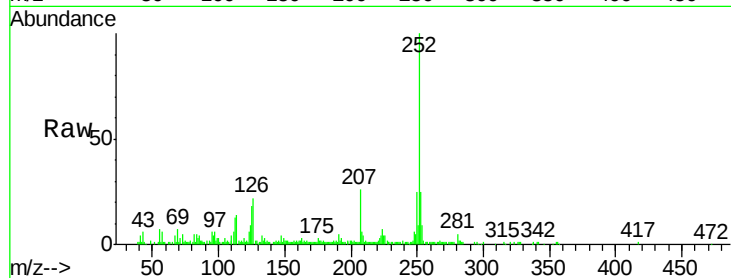
Tgt Ion:252 Resp: 99334

Ion Ratio Lower Upper

252 100

253 24.8 17.7 26.5

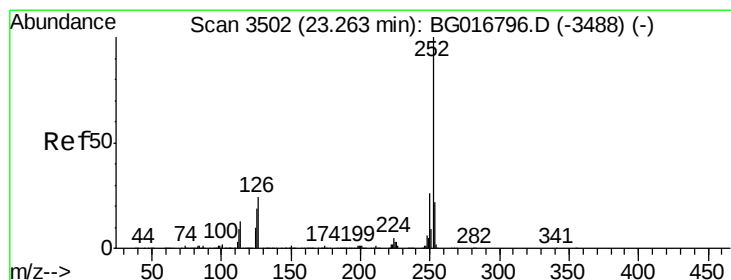
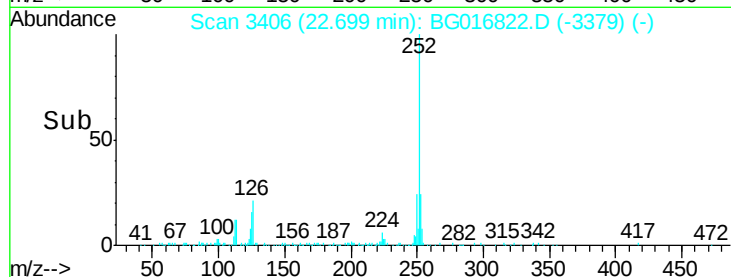
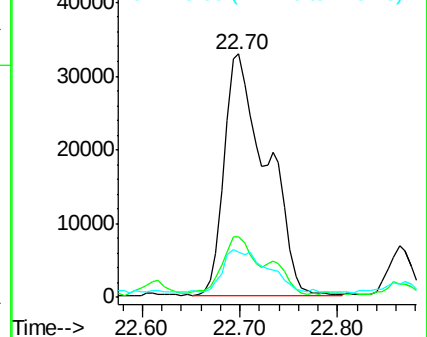
125 18.5 14.5 21.7



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(a)pyrene

Concen: 4.59 ng

RT: 23.26 min Scan# 3501

Delta R.T. -0.00 min

Lab File: BG016822.D

Acq: 30 Apr 2015 6:41

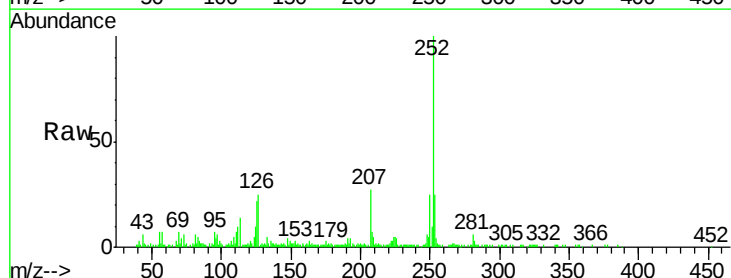
Tgt Ion:252 Resp: 56085

Ion Ratio Lower Upper

252 100

253 24.7 17.9 26.9

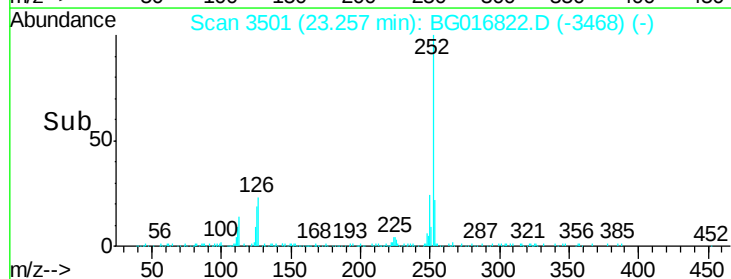
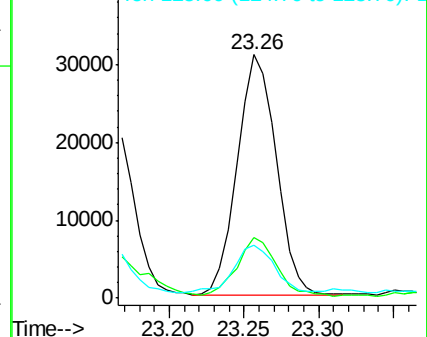
125 21.9 15.0 22.4

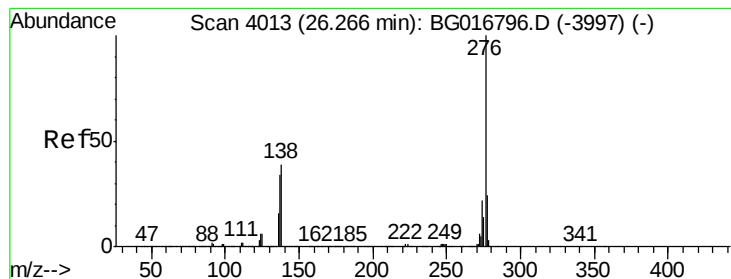


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(g,h,i)perylene

Concen: 2.56 ng

RT: 26.27 min Scan# 4014

Delta R.T. 0.01 min

Lab File: BG016822.D

Acq: 30 Apr 2015 6:41

Instrument :

BNA_G

ClientSampleId :

SB2

Tgt Ion: 276 Resp: 31692

Ion Ratio Lower Upper

276 100

277 23.4 19.6 29.4

138 39.7 31.0 46.4

