

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG041715\
 Data File : BG016536.D
 Acq On : 19 Apr 2015 00:17
 Operator : TP/IZ
 Sample : G1880-01
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 S1-1-4

Quant Time: Apr 20 04:12:45 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG040615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 20 03:57:28 2015
 Response via : Initial Calibration

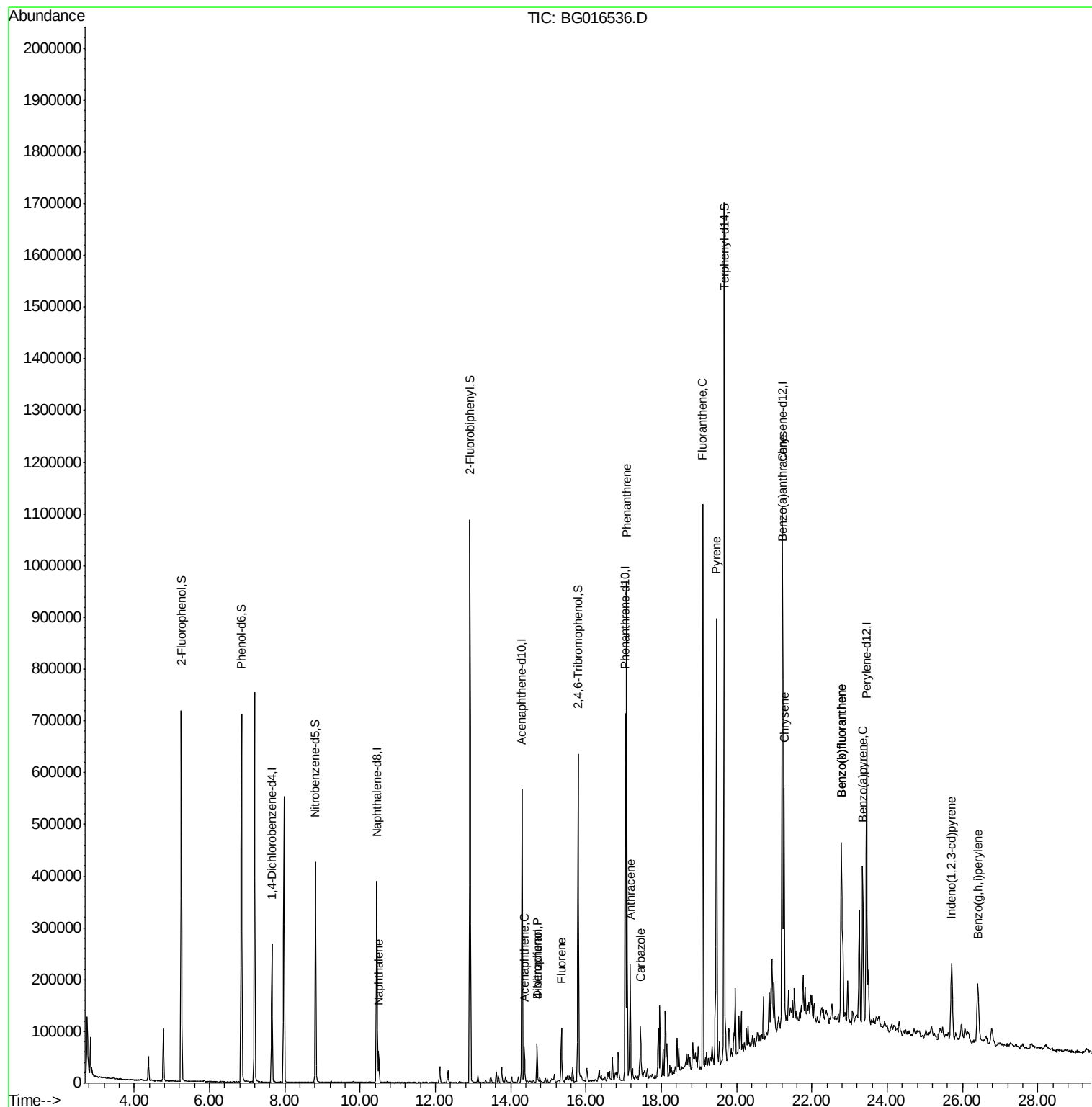
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.66	152	74357	20.00	ng	0.00
21) Naphthalene-d8	10.44	136	330571	20.00	ng	0.00
38) Acenaphthene-d10	14.30	164	194861	20.00	ng	0.00
63) Phenanthrene-d10	17.04	188	385361	20.00	ng	0.00
75) Chrysene-d12	21.22	240	328594	20.00	ng	0.00
86) Perylene-d12	23.45	264	309483	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.25	112	340325	72.23	ng	0.00
7) Phenol-d6	6.85	99	482816	68.26	ng	0.00
23) Nitrobenzene-d5	8.82	82	250998	43.99	ng	0.00
41) 2,4,6-Tribromophenol	15.79	330	86818	65.88	ng	0.00
44) 2-Fluorobiphenyl	12.92	172	548875	47.96	ng	0.00
78) Terphenyl-d14	19.67	244	612110	43.60	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.49	128	51341	2.98	ng	99
51) Acenaphthene	14.36	154	26061	2.15	ng	98
54) Dibenzofuran	14.70	168	43197	2.57	ng	96
55) 4-Nitrophenol	14.70	139	15135	4.15	ng	# 19
57) Fluorene	15.35	166	45008	3.04	ng	98
70) Phenanthrene	17.08	178	538403	24.84	ng	100
71) Anthracene	17.18	178	129956	6.05	ng	98
72) Carbazole	17.45	167	63274	2.94	ng	98
74) Fluoranthene	19.10	202	569441	25.49	ng	95
77) Pyrene	19.47	202	469305	20.51	ng	99
80) Benzo(a)anthracene	21.21	228	247896	12.76	ng	98
82) Chrysene	21.26	228	212622	11.34	ng	98
85) Indeno(1,2,3-cd)pyrene	25.71	276	121517	6.24	ng	89
87) Benzo(b)fluoranthene	22.78	252	353739	19.52	ng	99
88) Benzo(k)fluoranthene	22.78	252	353739	19.94	ng	99
89) Benzo(a)pyrene	23.35	252	185470	10.92	ng	97
91) Benzo(g,h,i)perylene	26.41	276	116413	7.05	ng	96

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.66 min Scan# 846

Delta R.T. -0.00 min

Lab File: BG016536.D

Acq: 19 Apr 2015 00:17

Instrument :

BNA_G

ClientSampleId :

S1-1-4

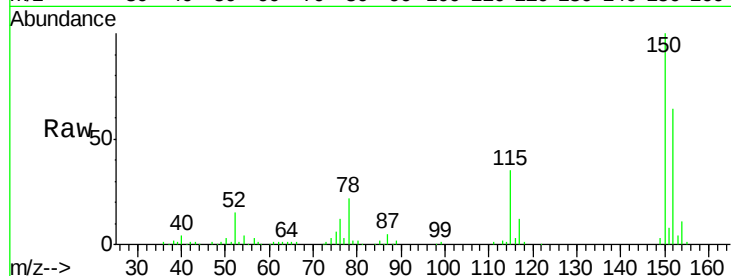
Tgt Ion:152 Resp: 74357

Ion Ratio Lower Upper

152 100

150 156.1 130.1 195.1

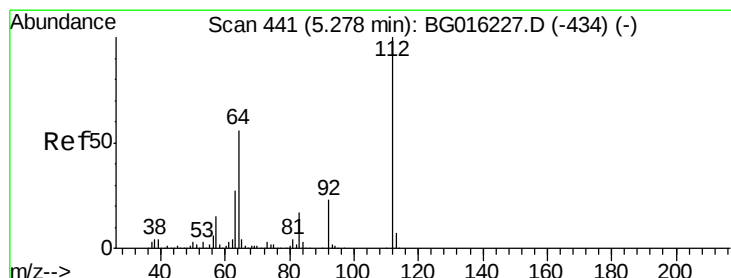
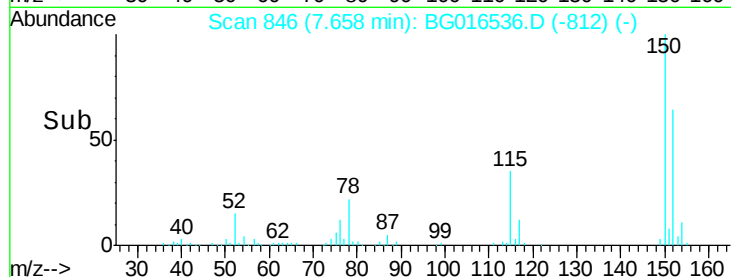
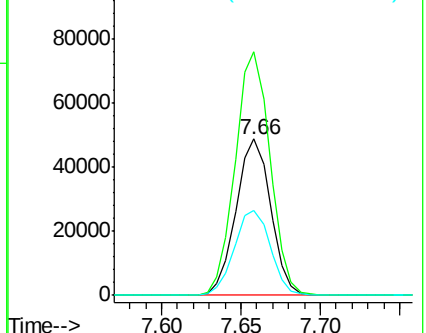
115 54.4 50.5 75.7



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: 72.23 ng

RT: 5.25 min Scan# 436

Delta R.T. -0.00 min

Lab File: BG016536.D

Acq: 19 Apr 2015 00:17

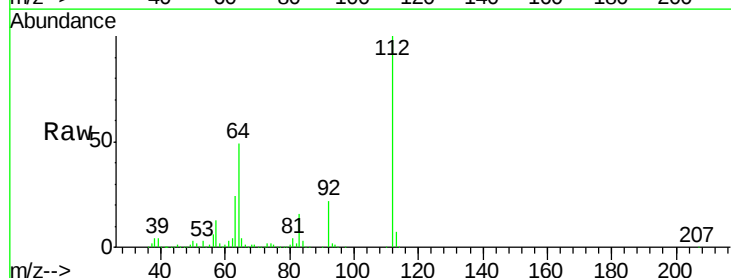
Tgt Ion:112 Resp: 340325

Ion Ratio Lower Upper

112 100

64 49.5 44.5 66.7

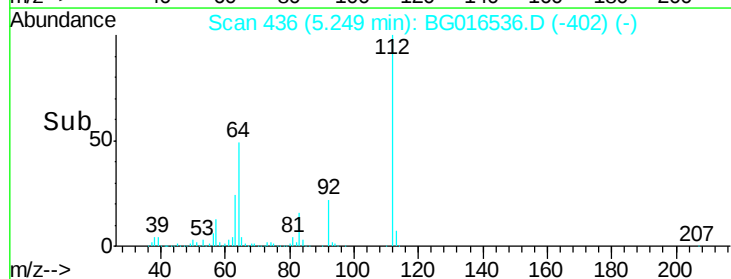
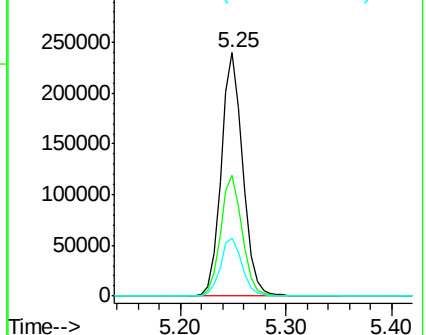
63 24.0 21.4 32.0



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG0

Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 68.26 ng

RT: 6.85 min Scan# 708

Delta R.T. -0.00 min

Lab File: BG016536.D

Acq: 19 Apr 2015 00:17

Instrument :

BNA_G

ClientSampleId :

S1-1-4

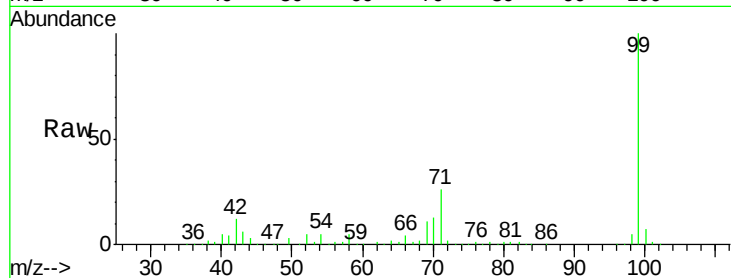
Tgt Ion: 99 Resp: 482816

Ion Ratio Lower Upper

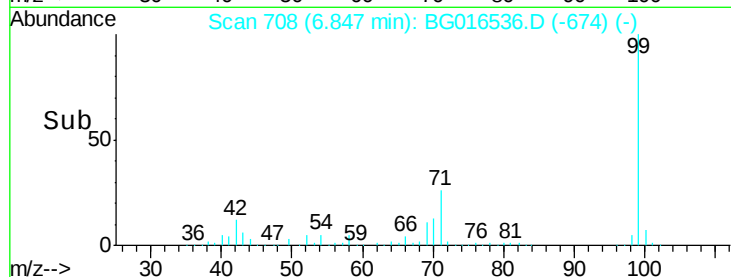
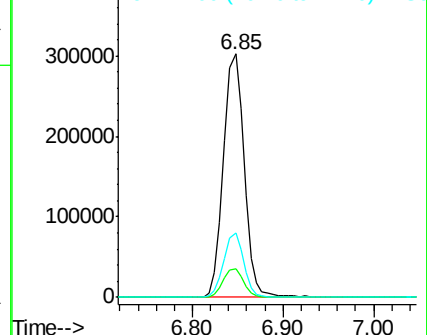
99 100

42 11.8 10.0 15.0

71 26.4 21.5 32.3



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: 10.44 min Scan# 1320

Delta R.T. -0.00 min

Lab File: BG016536.D

Acq: 19 Apr 2015 00:17

Tgt Ion: 136 Resp: 330571

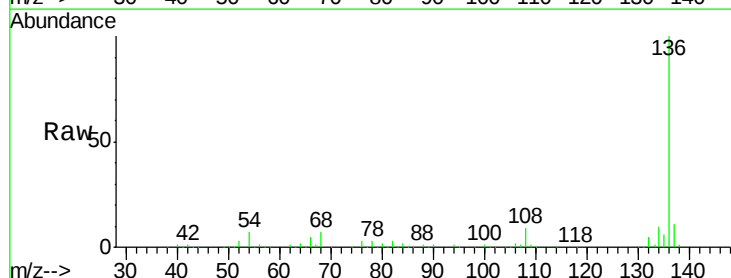
Ion Ratio Lower Upper

136 100

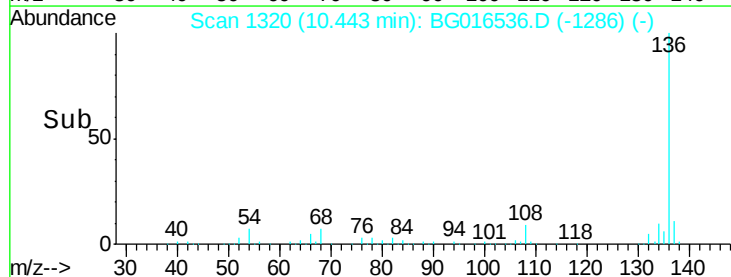
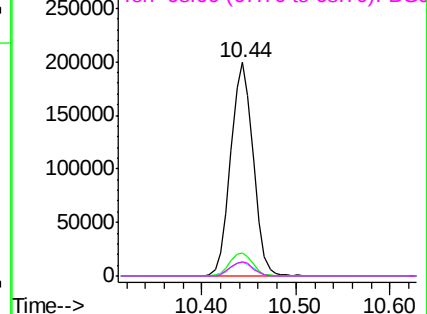
137 11.0 8.7 13.1

54 6.8 6.3 9.5

68 6.5 6.5 9.7



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

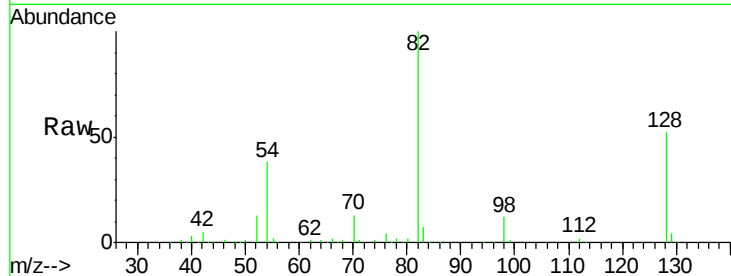




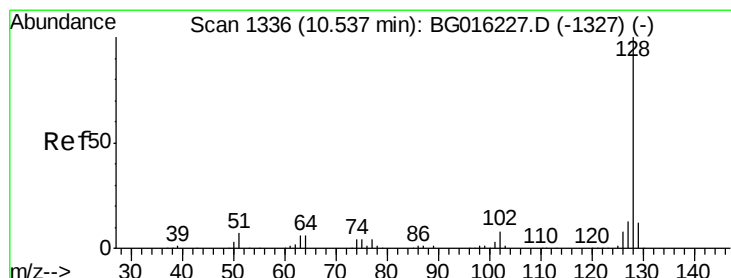
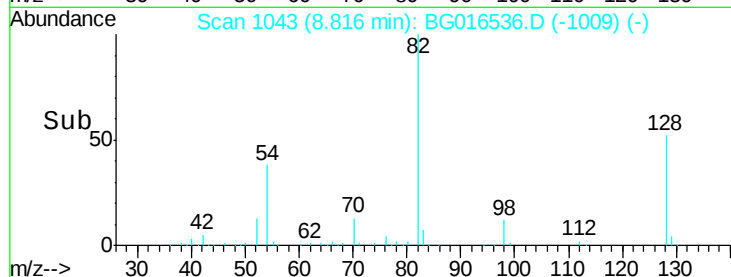
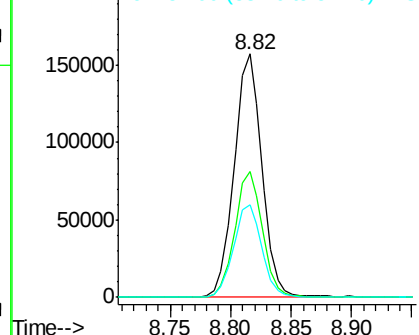
#23
 Nitrobenzene-d5
 Concen: 43.99 ng
 RT: 8.82 min Scan# 1043
 Delta R.T. -0.00 min
 Lab File: BG016536.D
 Acq: 19 Apr 2015 00:17

Instrument :
 BNA_G
 ClientSampleId :
 S1-1-4

Tgt Ion: 82 Resp: 250998
 Ion Ratio Lower Upper
 82 100
 128 51.7 37.8 56.8
 54 38.2 32.6 49.0

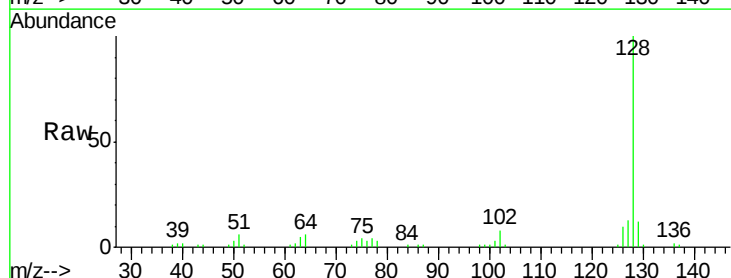


Abundance Ion 82.00 (81.70 to 82.70): BGC
 Ion 128.00 (127.70 to 128.70): BGC
 Ion 54.00 (53.70 to 54.70): BGC

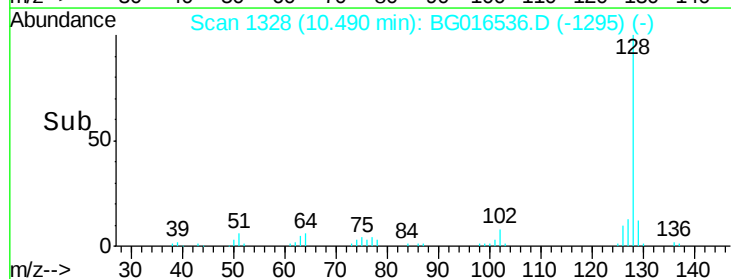
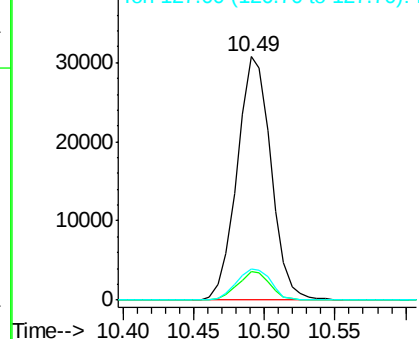


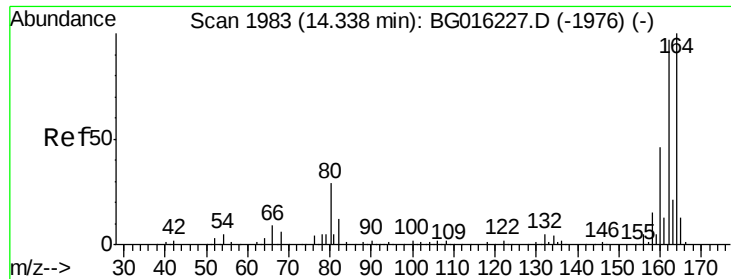
#31
 Naphthalene
 Concen: 2.98 ng
 RT: 10.49 min Scan# 1328
 Delta R.T. -0.01 min
 Lab File: BG016536.D
 Acq: 19 Apr 2015 00:17

Tgt Ion: 128 Resp: 51341
 Ion Ratio Lower Upper
 128 100
 129 11.9 9.2 13.8
 127 12.7 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): BGC
 Ion 129.00 (128.70 to 129.70): BGC
 Ion 127.00 (126.70 to 127.70): BGC





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.30 min Scan# 1976

Delta R.T. -0.01 min

Lab File: BG016536.D

Acq: 19 Apr 2015 00:17

Instrument :

BNA_G

ClientSampleId :

S1-1-4

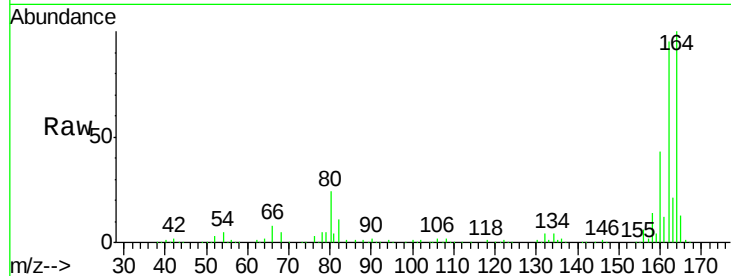
Tgt Ion:164 Resp: 194861

Ion Ratio Lower Upper

164 100

162 95.0 77.3 115.9

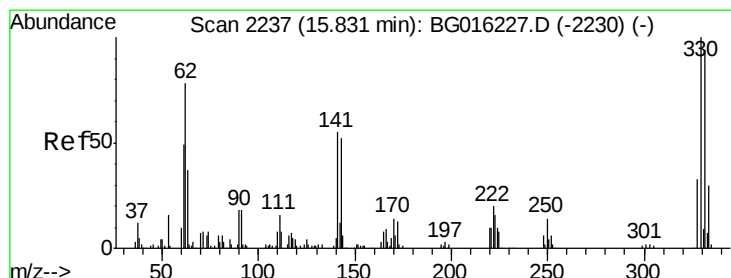
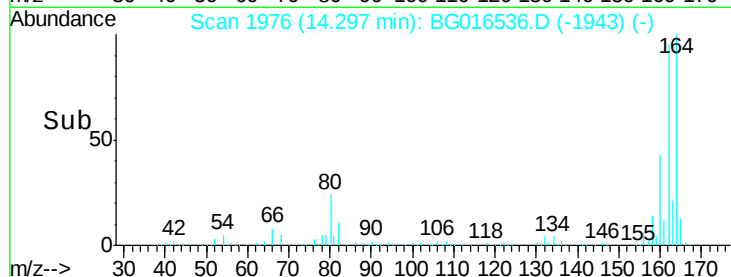
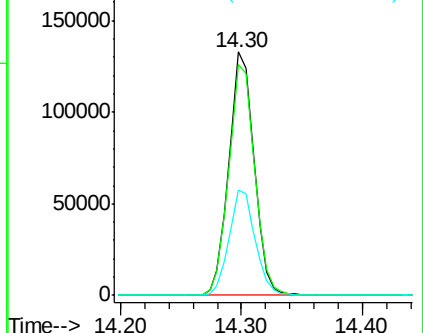
160 43.2 36.7 55.1



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 65.88 ng

RT: 15.79 min Scan# 2230

Delta R.T. -0.01 min

Lab File: BG016536.D

Acq: 19 Apr 2015 00:17

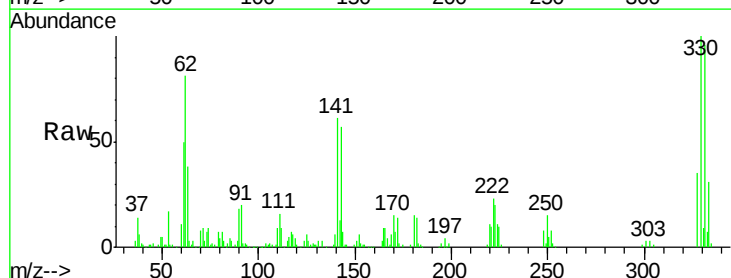
Tgt Ion:330 Resp: 86818

Ion Ratio Lower Upper

330 100

332 96.5 75.8 113.6

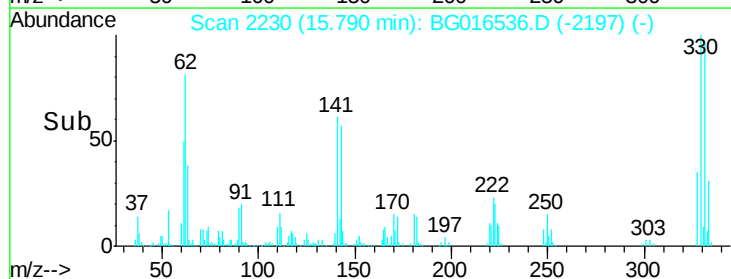
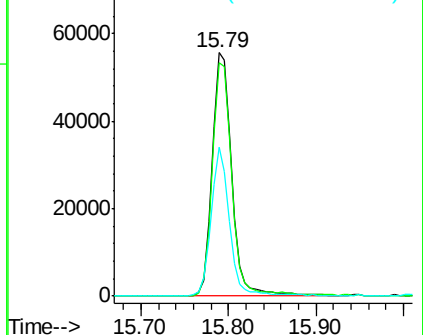
141 56.7 46.6 69.8

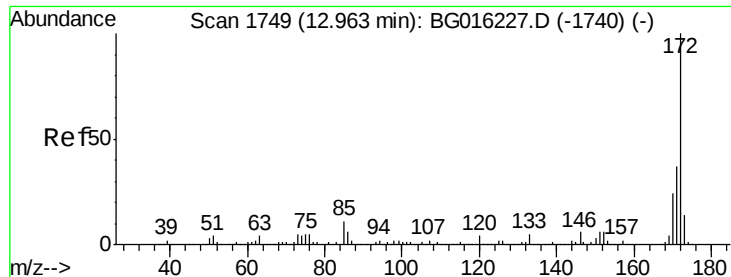


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

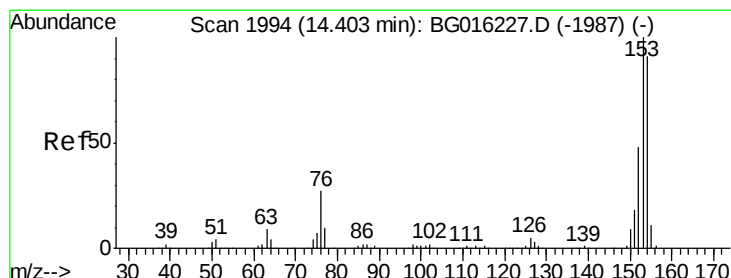
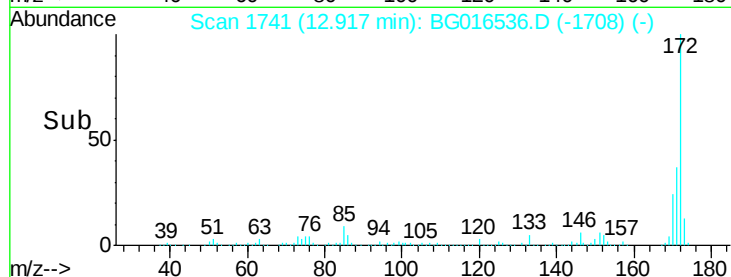
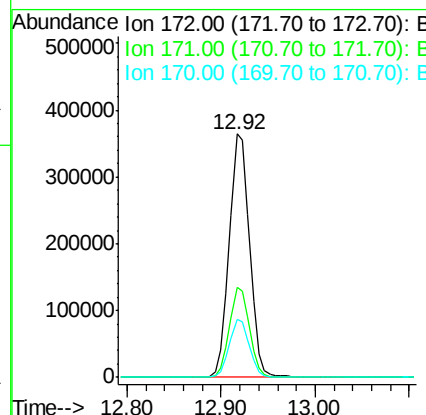
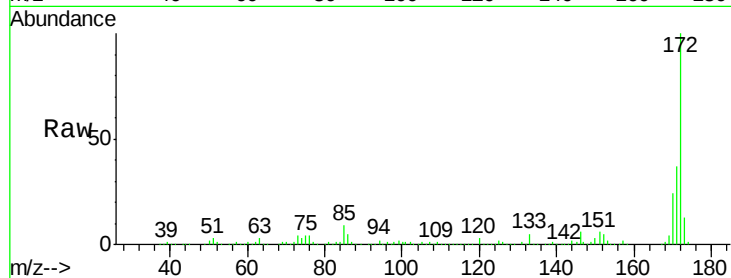




#44
 2-Fluorobiphenyl
 Concen: 47.96 ng
 RT: 12.92 min Scan# 1741
 Delta R.T. -0.01 min
 Lab File: BG016536.D
 Acq: 19 Apr 2015 00:17

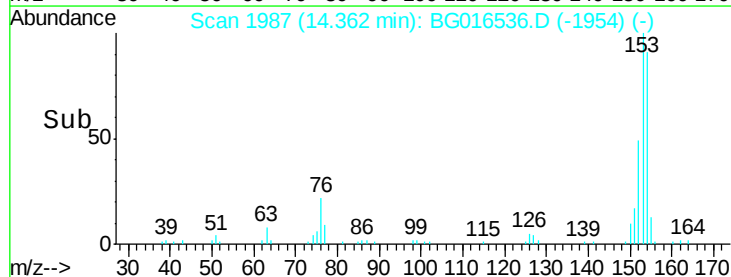
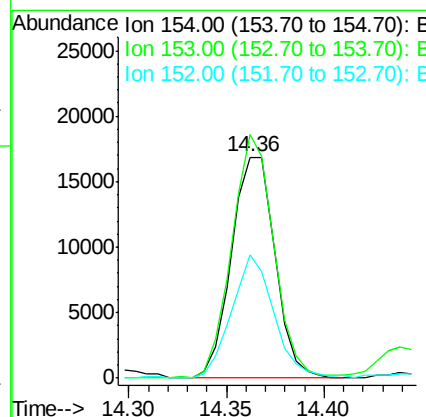
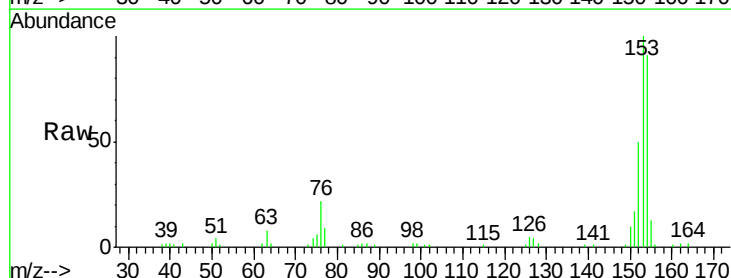
Instrument :
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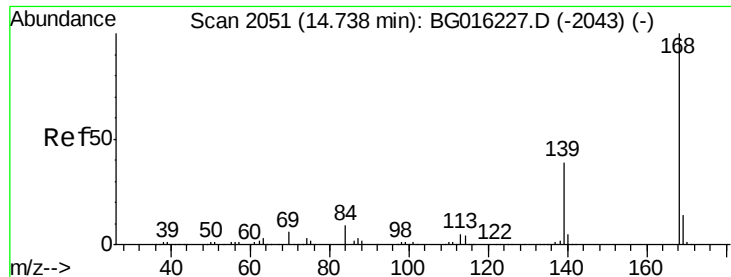
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.6	44.4
170	23.9	19.4	29.2



#51
 Acenaphthene
 Concen: 2.15 ng
 RT: 14.36 min Scan# 1987
 Delta R.T. -0.01 min
 Lab File: BG016536.D
 Acq: 19 Apr 2015 00:17

Tgt Ion	Ratio	Lower	Upper
154	100		
153	110.1	87.5	131.3
152	55.6	42.1	63.1

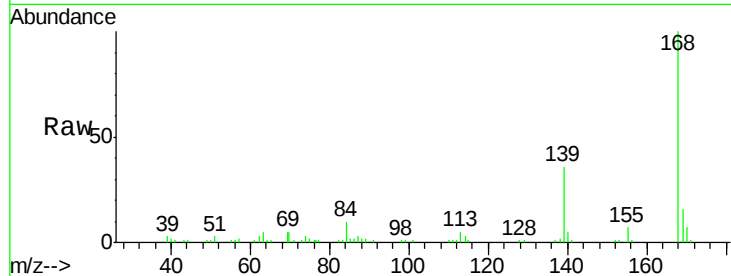




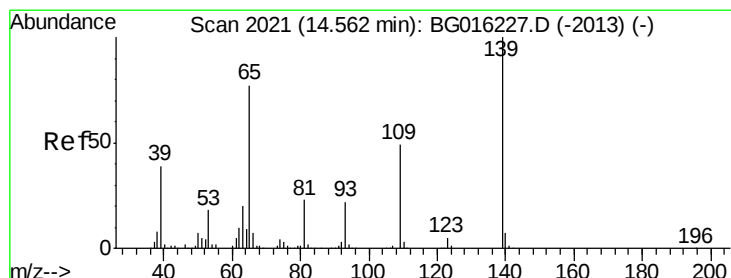
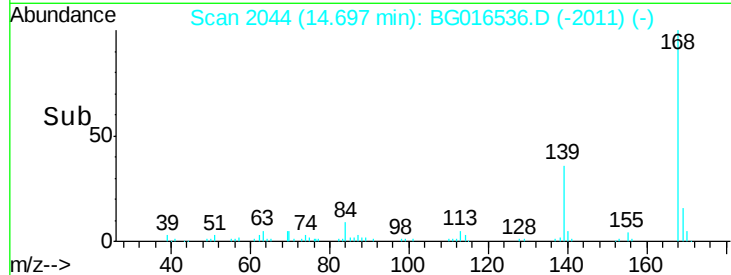
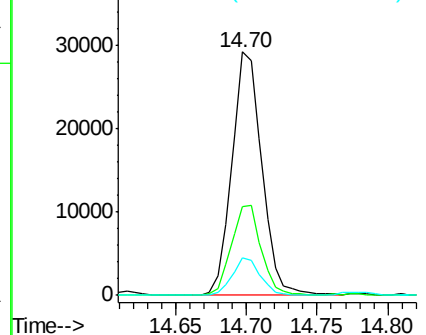
#54
Dibenzenofuran
Concen: 2.57 ng
RT: 14.70 min Scan# 2044
Delta R.T. -0.01 min
Lab File: BG016536.D
Acq: 19 Apr 2015 00:17

Instrument :
BNA_G
ClientSampleId :
S1-1-4

Tgt Ion:168 Resp: 43197
Ion Ratio Lower Upper
168 100
139 36.2 31.0 46.6
169 15.6 11.2 16.8

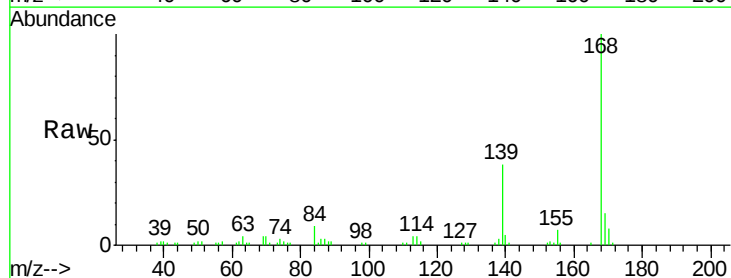


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

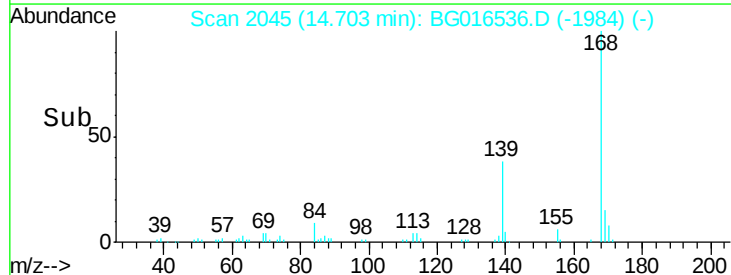
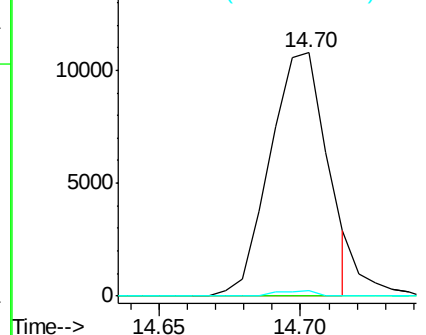


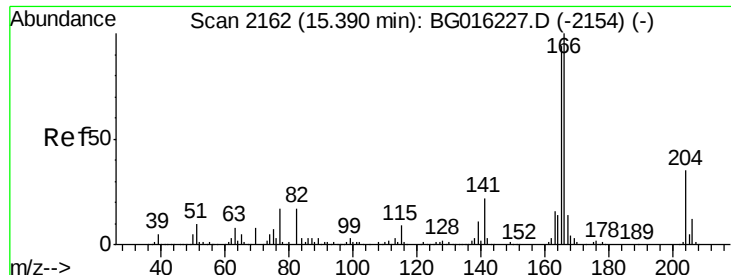
#55
4-Nitrophenol
Concen: 4.15 ng
RT: 14.70 min Scan# 2045
Delta R.T. 0.16 min
Lab File: BG016536.D
Acq: 19 Apr 2015 00:17

Tgt Ion:139 Resp: 15135
Ion Ratio Lower Upper
139 100
109 0.0 28.5 68.5#
65 2.2 56.9 96.9#



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): BGO

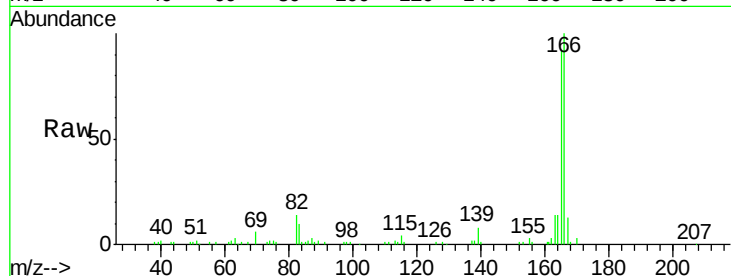




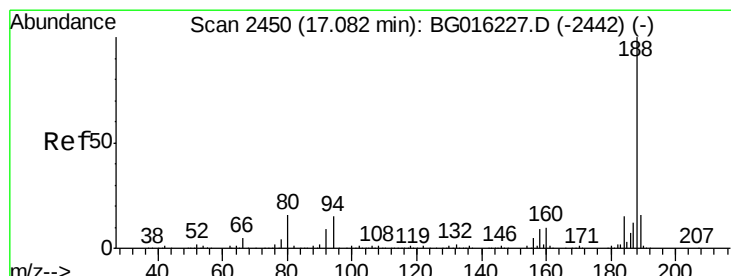
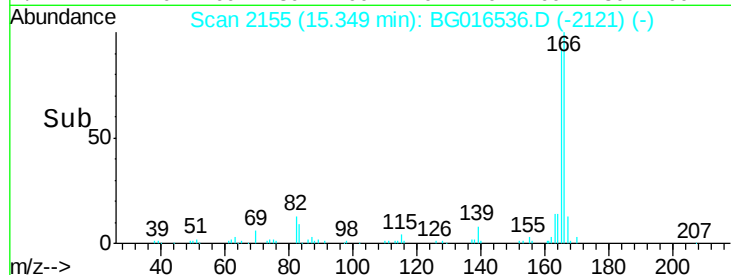
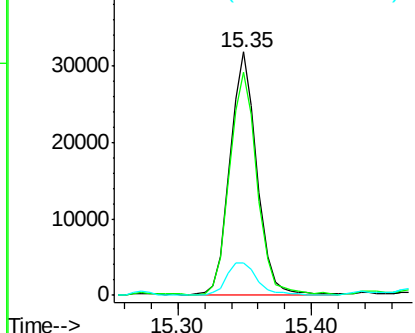
#57
Fluorene
 Concen: 3.04 ng
 RT: 15.35 min Scan# 2155
 Delta R.T. -0.00 min
 Lab File: BG016536.D
 Acq: 19 Apr 2015 00:17

Instrument :
 BNA_G
 ClientSampleId :
 S1-1-4

Tgt Ion:166 Resp: 45008
 Ion Ratio Lower Upper
 166 100
 165 91.8 75.2 112.8
 167 13.2 11.3 16.9

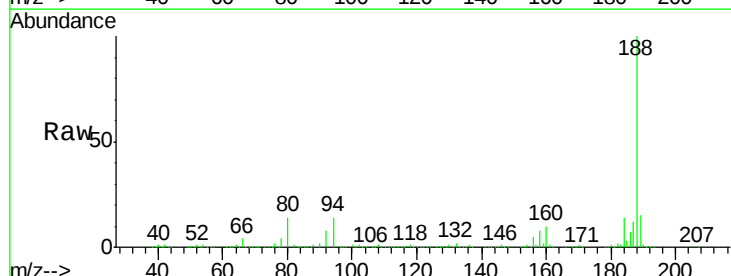


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

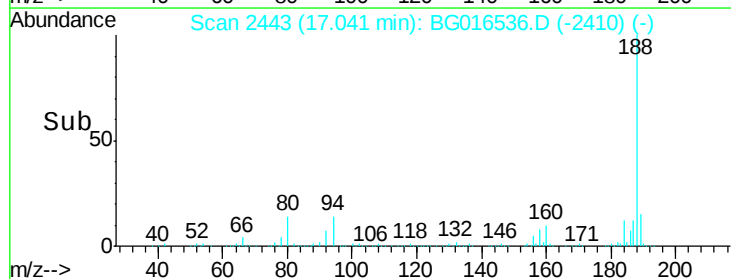
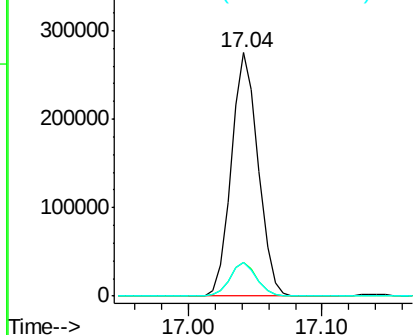


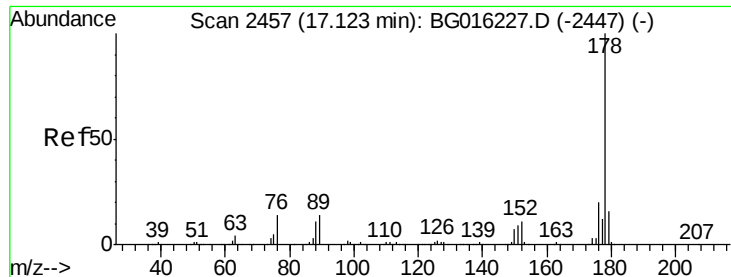
#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 17.04 min Scan# 2443
 Delta R.T. -0.01 min
 Lab File: BG016536.D
 Acq: 19 Apr 2015 00:17

Tgt Ion:188 Resp: 385361
 Ion Ratio Lower Upper
 188 100
 94 14.1 12.2 18.4
 80 13.8 12.8 19.2



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





#70

Phenanthrene

Concen: 24.84 ng

RT: 17.08 min Scan# 2450

Delta R.T. -0.01 min

Lab File: BG016536.D

Acq: 19 Apr 2015 00:17

Instrument :

BNA_G

ClientSampleId :

S1-1-4

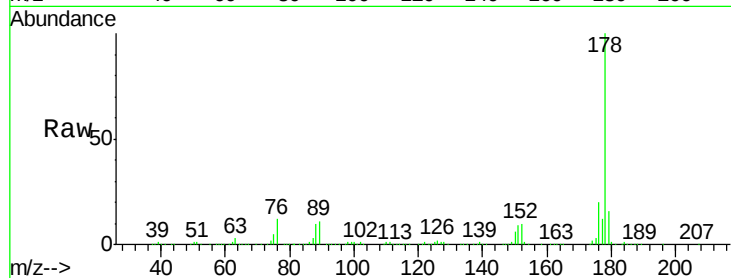
Tgt Ion:178 Resp: 538403

Ion Ratio Lower Upper

178 100

176 20.0 16.2 24.4

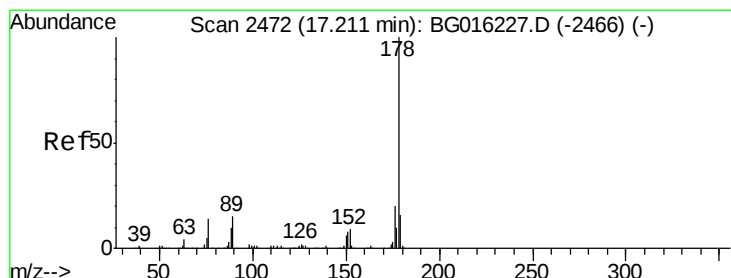
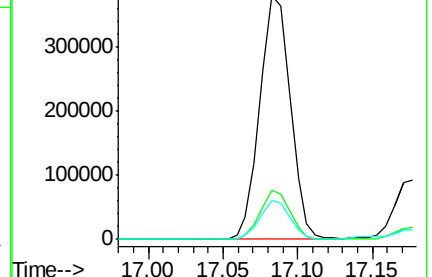
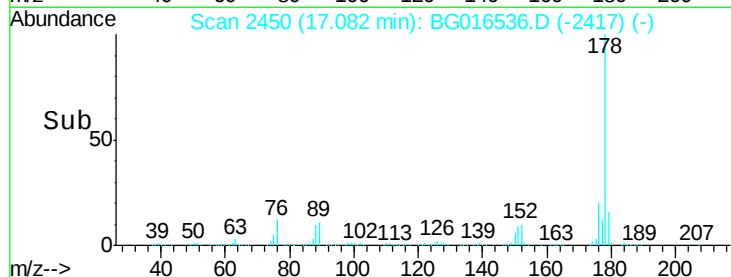
179 16.1 12.7 19.1



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



#71

Anthracene

Concen: 6.05 ng

RT: 17.18 min Scan# 2466

Delta R.T. -0.00 min

Lab File: BG016536.D

Acq: 19 Apr 2015 00:17

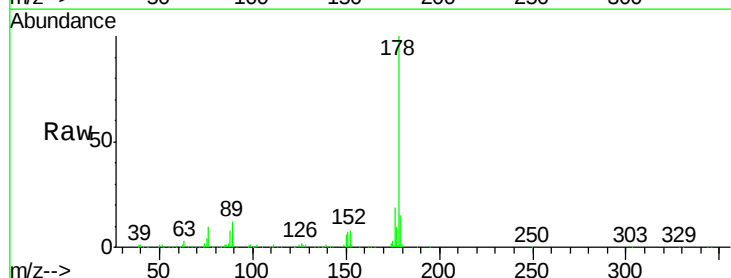
Tgt Ion:178 Resp: 129956

Ion Ratio Lower Upper

178 100

176 19.0 15.9 23.9

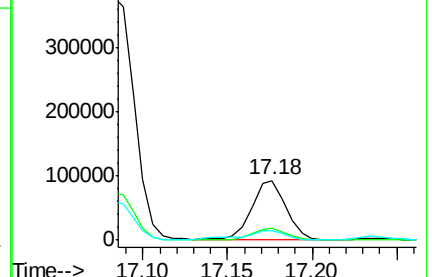
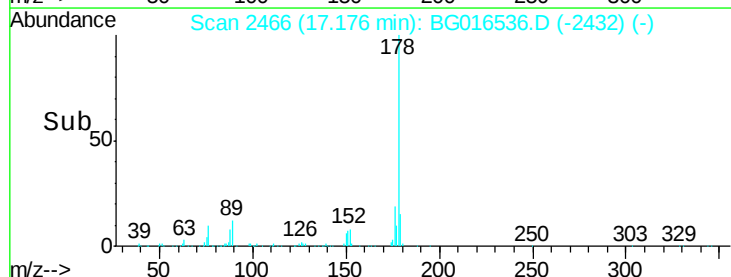
179 15.2 13.0 19.6

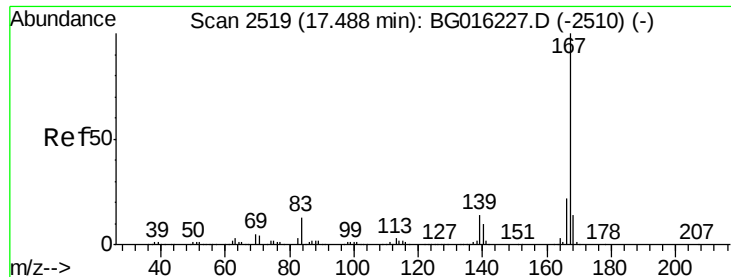


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.94 ng

RT: 17.45 min Scan# 2513

Delta R.T. -0.00 min

Lab File: BG016536.D

Acq: 19 Apr 2015 00:17

Instrument :

BNA_G

ClientSampleId :

S1-1-4

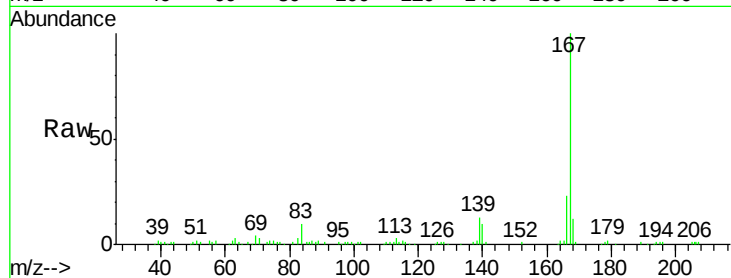
Tgt Ion:167 Resp: 63274

Ion Ratio Lower Upper

167 100

166 22.8 17.9 26.9

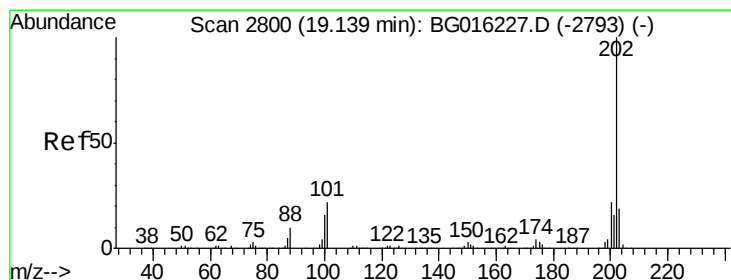
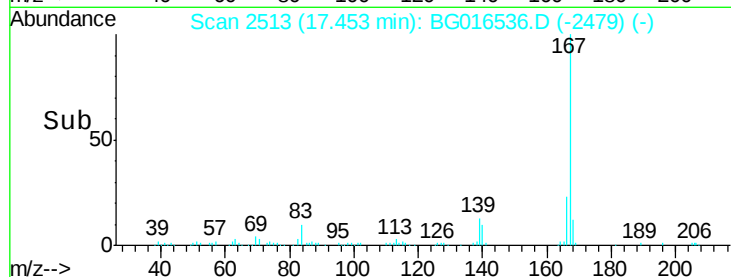
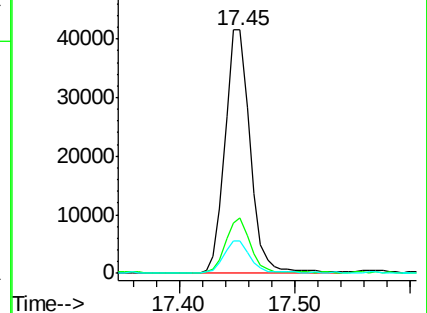
139 13.3 11.5 17.3



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



#74

Fluoranthene

Concen: 25.49 ng

RT: 19.10 min Scan# 2794

Delta R.T. -0.00 min

Lab File: BG016536.D

Acq: 19 Apr 2015 00:17

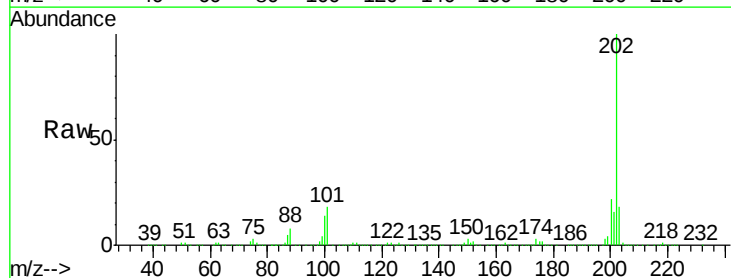
Tgt Ion:202 Resp: 569441

Ion Ratio Lower Upper

202 100

101 18.2 1.7 41.7

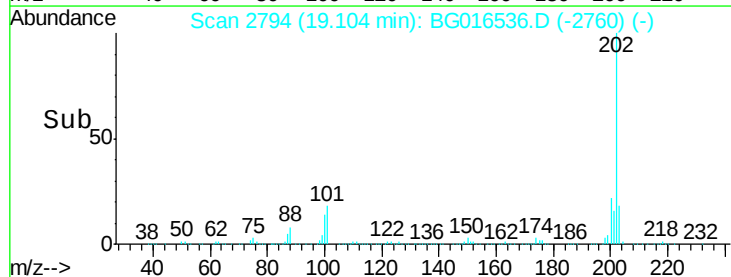
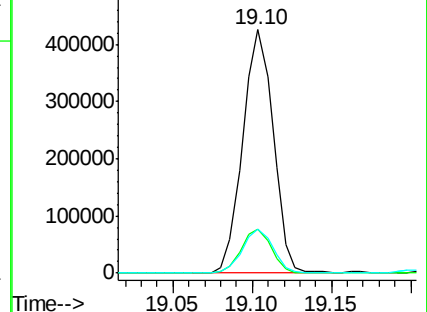
203 18.1 0.0 38.7

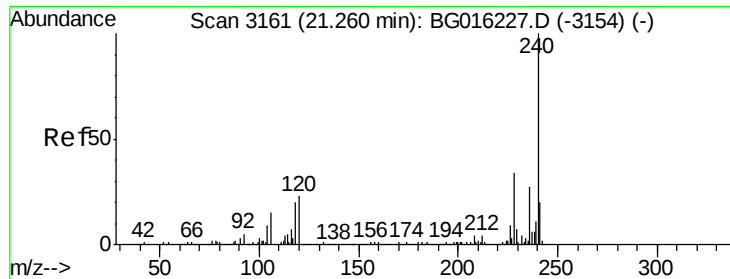


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.22 min Scan# 3155

Delta R.T. -0.01 min

Lab File: BG016536.D

Acq: 19 Apr 2015 00:17

Instrument :

BNA_G

ClientSampleId :

S1-1-4

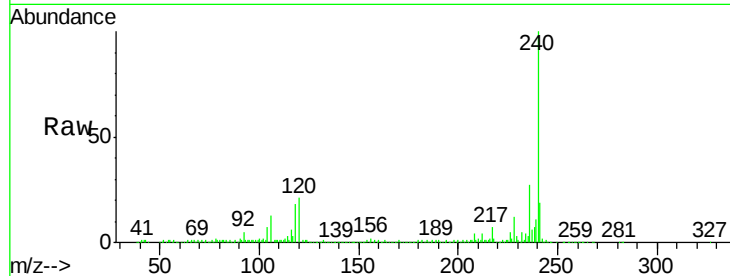
Tgt Ion:240 Resp: 328594

Ion Ratio Lower Upper

240 100

120 21.3 18.6 28.0

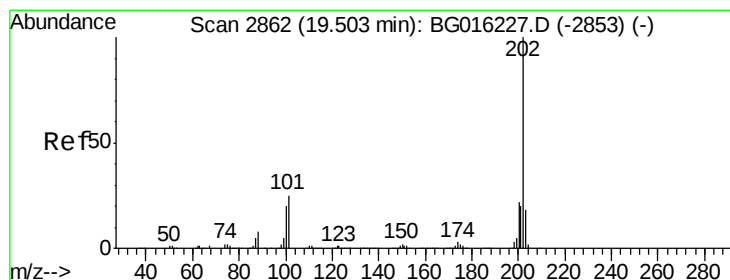
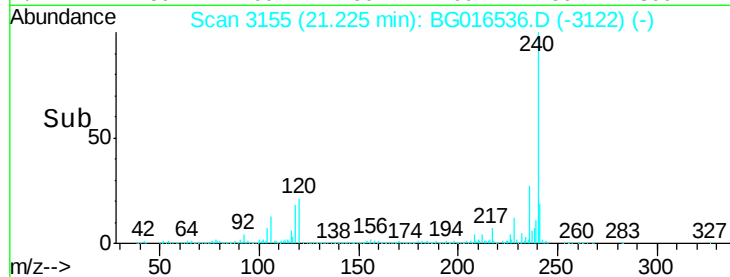
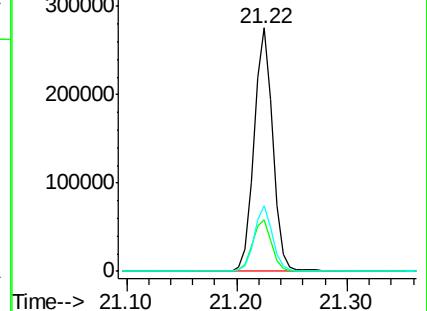
236 26.7 21.7 32.5



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: 20.51 ng

RT: 19.47 min Scan# 2856

Delta R.T. -0.00 min

Lab File: BG016536.D

Acq: 19 Apr 2015 00:17

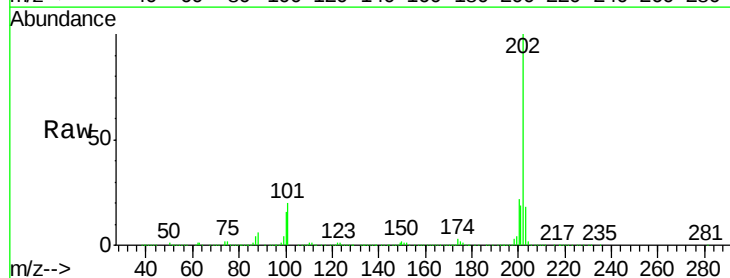
Tgt Ion:202 Resp: 469305

Ion Ratio Lower Upper

202 100

200 21.7 17.8 26.8

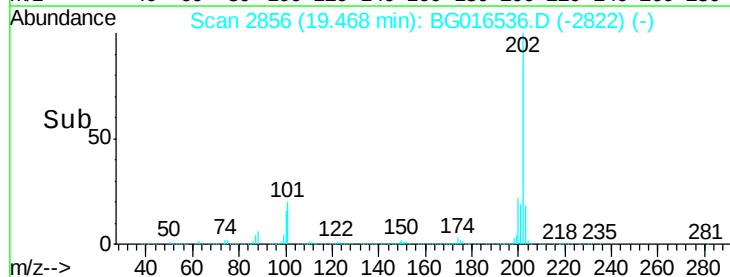
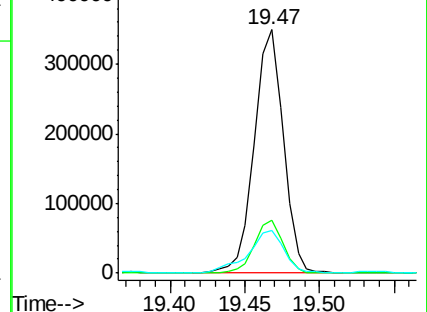
203 17.8 14.7 22.1

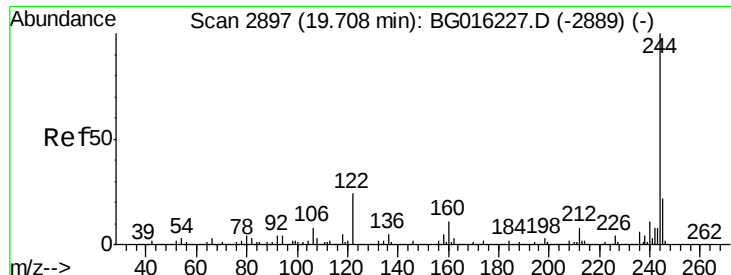


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 43.60 ng

RT: 19.67 min Scan# 2891

Delta R.T. -0.00 min

Lab File: BG016536.D

Acq: 19 Apr 2015 00:17

Instrument :

BNA_G

ClientSampleId :

S1-1-4

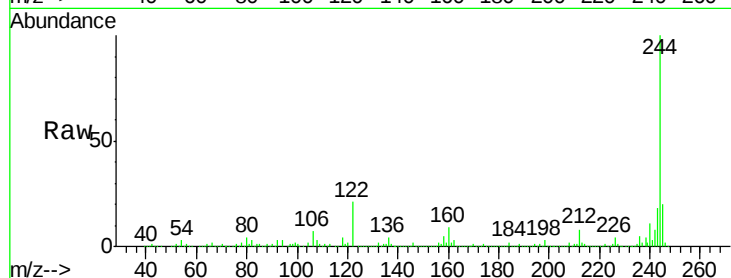
Tgt Ion:244 Resp: 612110

Ion Ratio Lower Upper

244 100

212 7.8 6.6 9.8

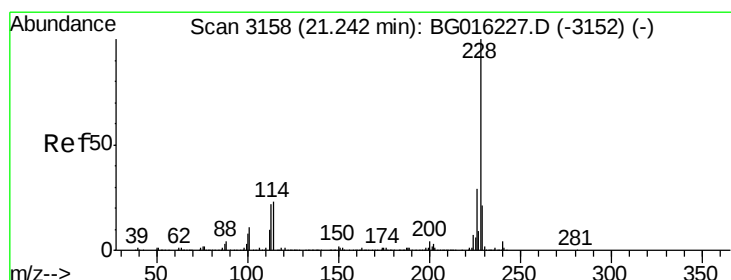
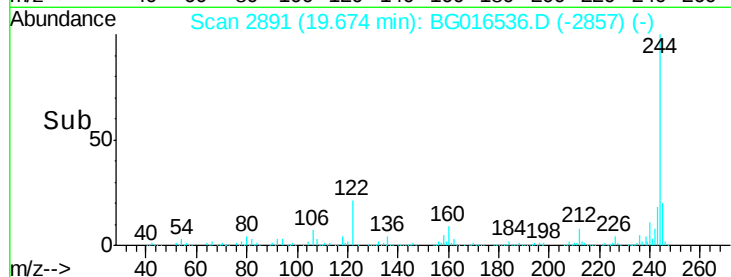
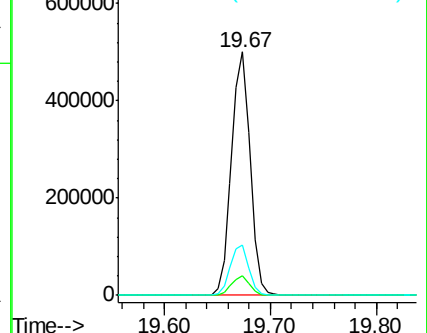
122 20.9 19.1 28.7



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: 12.76 ng

RT: 21.21 min Scan# 3152

Delta R.T. -0.01 min

Lab File: BG016536.D

Acq: 19 Apr 2015 00:17

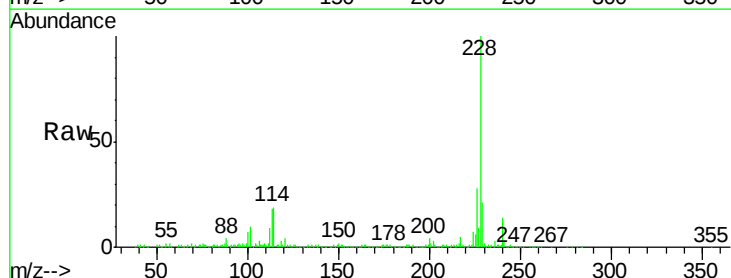
Tgt Ion:228 Resp: 247896

Ion Ratio Lower Upper

228 100

226 28.0 23.5 35.3

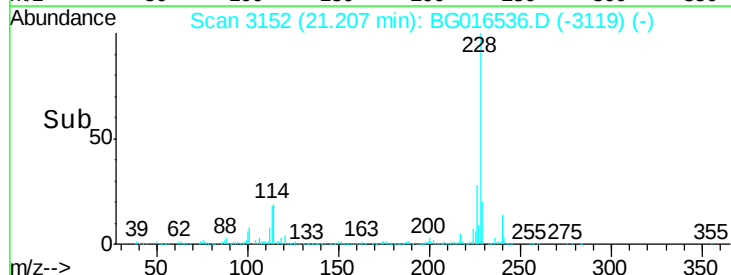
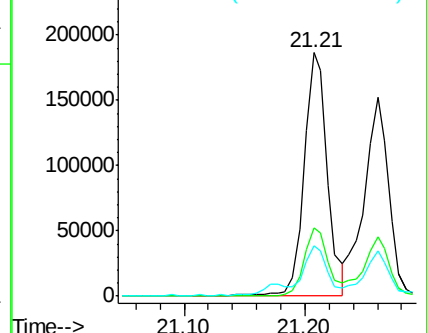
229 20.5 16.8 25.2

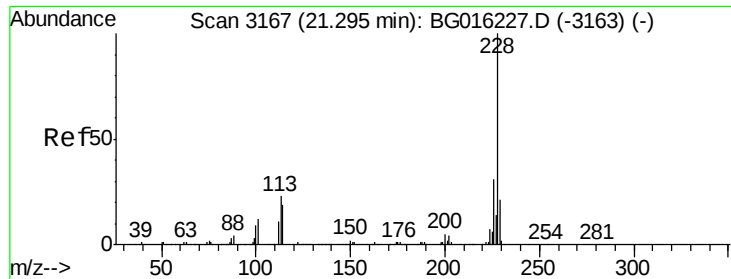


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 11.34 ng

RT: 21.26 min Scan# 3161

Delta R.T. -0.01 min

Lab File: BG016536.D

Acq: 19 Apr 2015 00:17

Instrument :

BNA_G

ClientSampleId :

S1-1-4

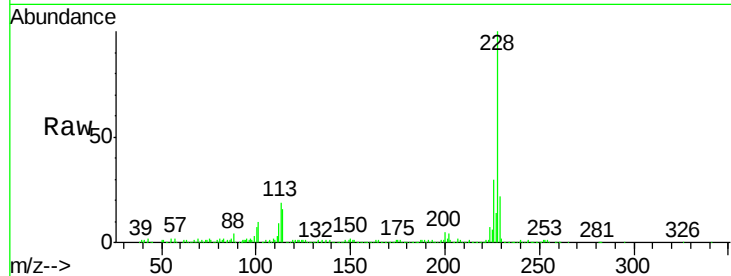
Tgt Ion:228 Resp: 212622

Ion Ratio Lower Upper

228 100

226 30.0 25.0 37.4

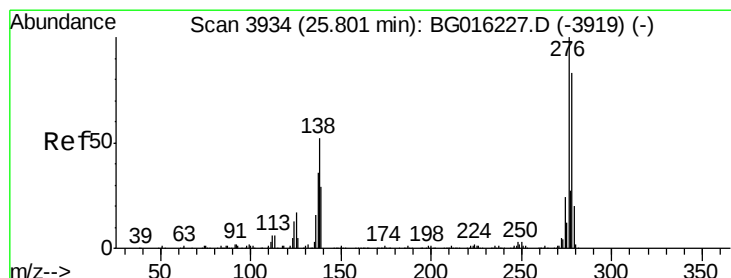
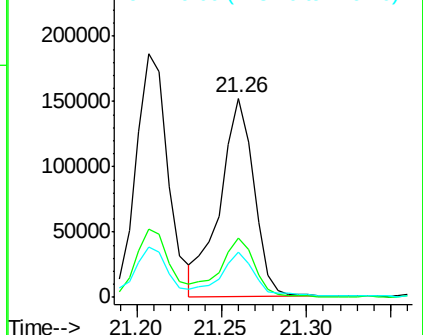
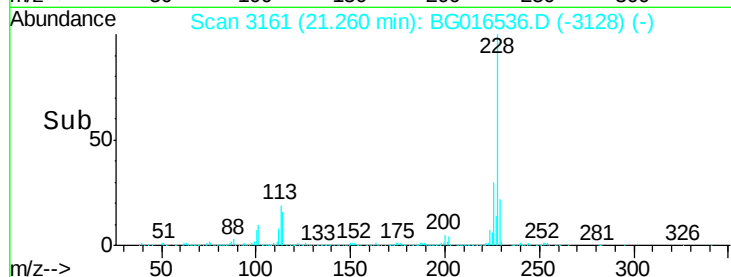
229 22.5 17.0 25.4



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 6.24 ng

RT: 25.71 min Scan# 3919

Delta R.T. -0.02 min

Lab File: BG016536.D

Acq: 19 Apr 2015 00:17

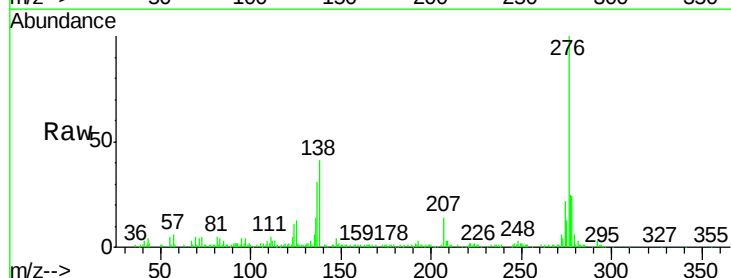
Tgt Ion:276 Resp: 121517

Ion Ratio Lower Upper

276 100

138 41.6 41.5 62.3

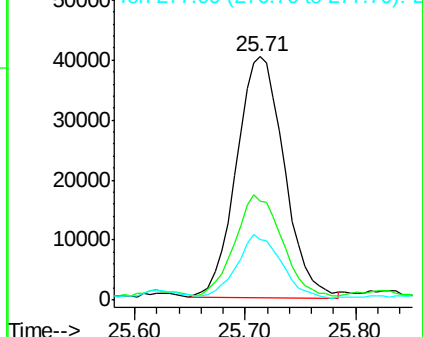
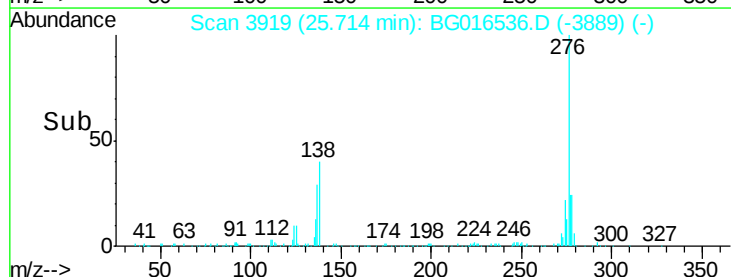
277 24.2 21.0 31.6

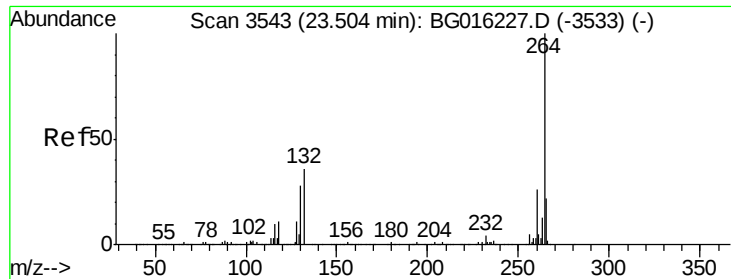


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

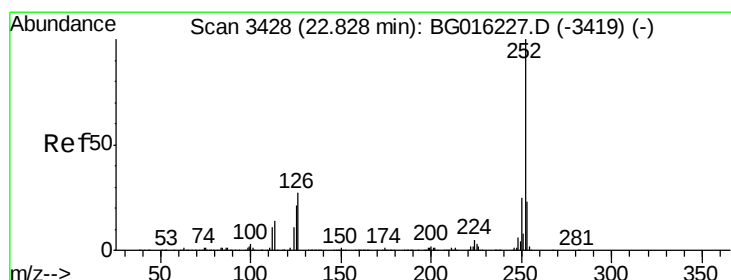
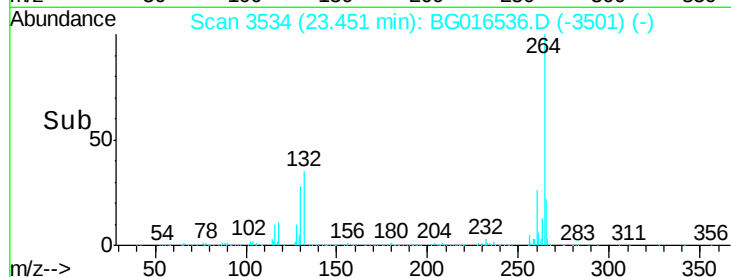
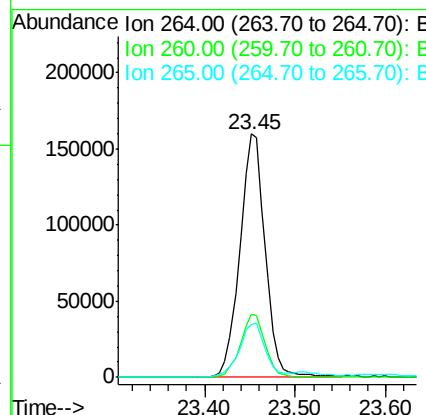
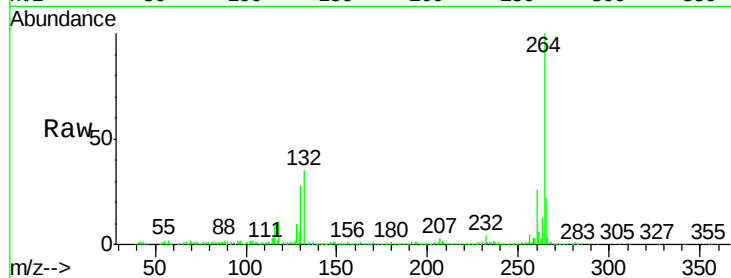




#86
Perylene-d12
Concen: 20.00 ng
RT: 23.45 min Scan# 3534
Delta R.T. -0.01 min
Lab File: BG016536.D
Acq: 19 Apr 2015 00:17

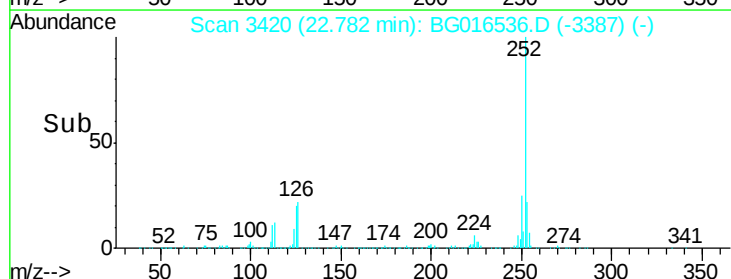
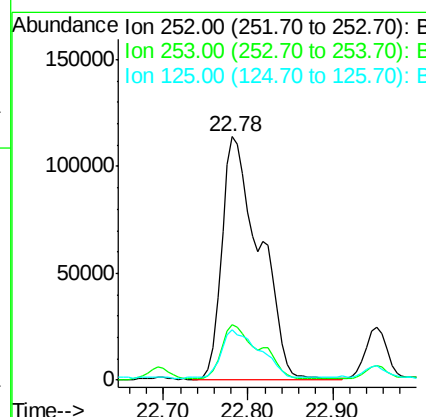
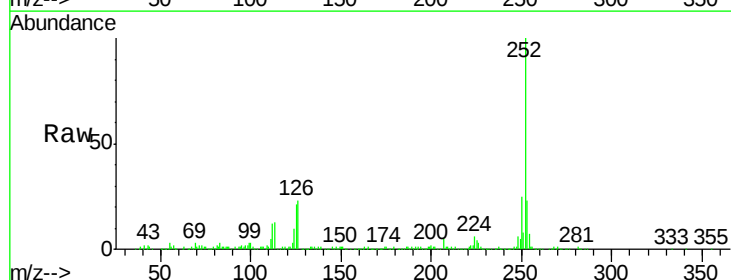
Instrument :
BNA_G
ClientSampleId :
S1-1-4

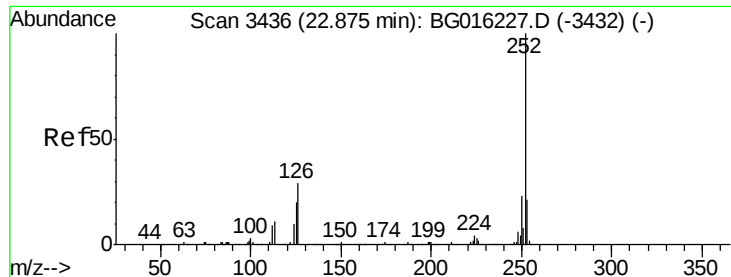
Tgt Ion:264 Resp: 309483
Ion Ratio Lower Upper
264 100
260 26.0 20.4 30.6
265 21.7 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 19.52 ng
RT: 22.78 min Scan# 3420
Delta R.T. -0.01 min
Lab File: BG016536.D
Acq: 19 Apr 2015 00:17

Tgt Ion:252 Resp: 353739
Ion Ratio Lower Upper
252 100
253 22.8 18.5 27.7
125 20.8 17.0 25.6

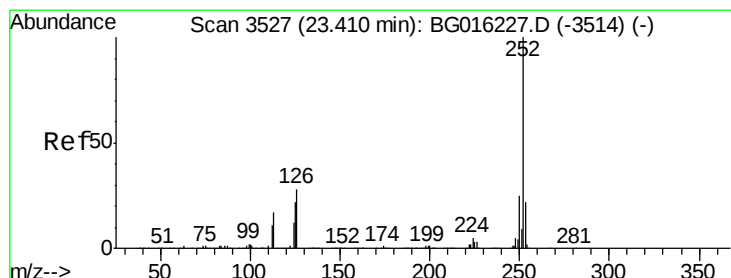
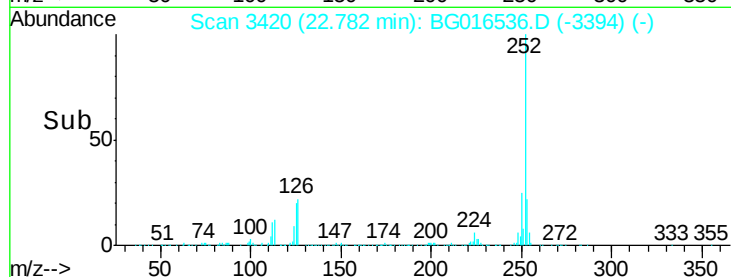
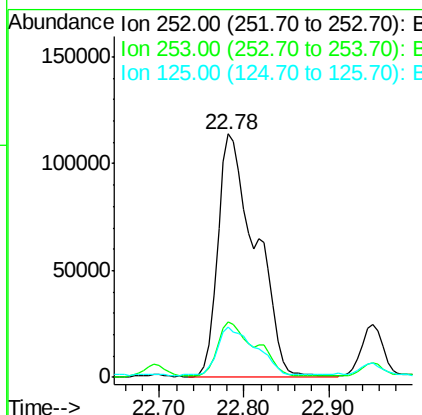
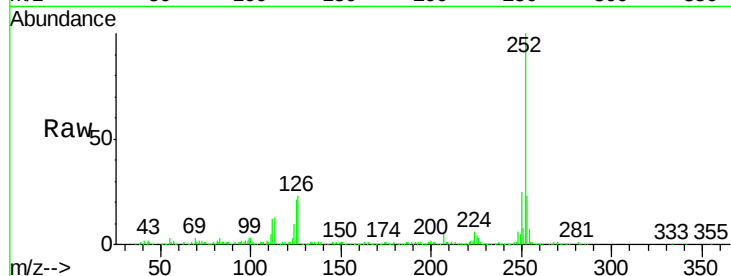




#88
Benzo(k)fluoranthene
Concen: 19.94 ng
RT: 22.78 min Scan# 3420
Delta R.T. -0.05 min
Lab File: BG016536.D
Acq: 19 Apr 2015 00:17

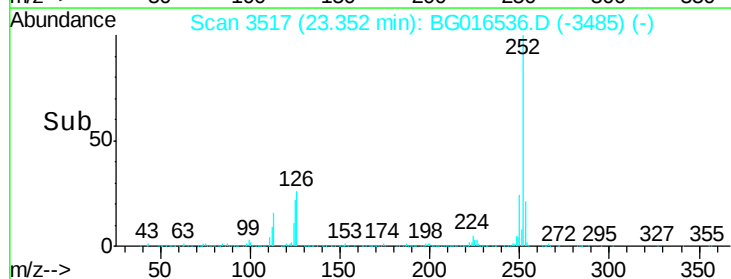
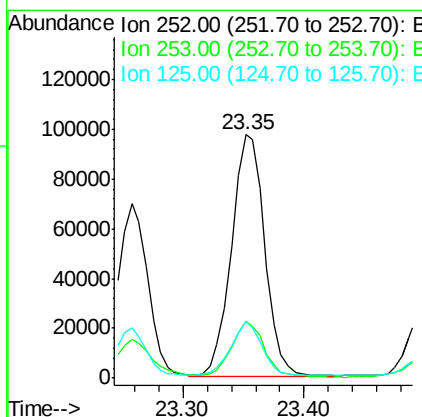
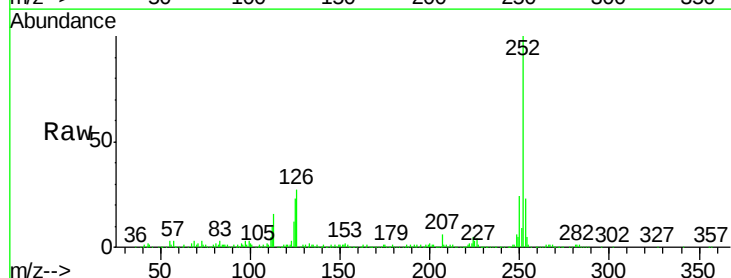
Instrument :
BNA_G
ClientSampleId :
S1-1-4

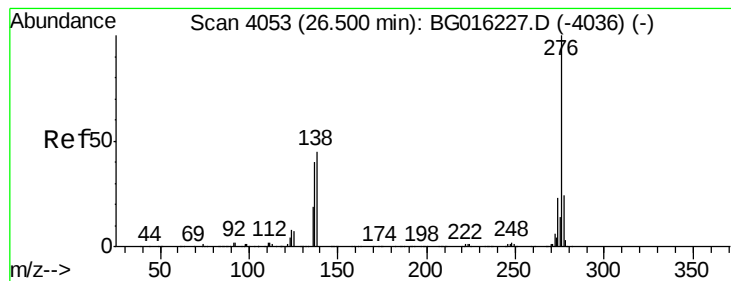
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.5	26.3
125	20.8	16.3	24.5



#89
Benzo(a)pyrene
Concen: 10.92 ng
RT: 23.35 min Scan# 3517
Delta R.T. -0.01 min
Lab File: BG016536.D
Acq: 19 Apr 2015 00:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.6	26.4
125	23.3	17.6	26.4





#91

Benzo(g,h,i)perylene

Concen: 7.05 ng

RT: 26.41 min Scan# 4038

Delta R.T. -0.02 min

Lab File: BG016536.D

Acq: 19 Apr 2015 00:17

Instrument :

BNA_G

ClientSampleId :

S1-1-4

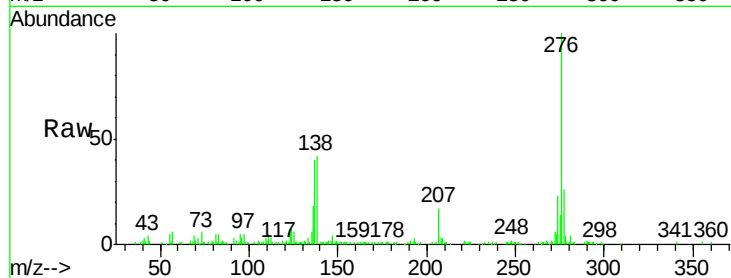
Tgt Ion: 276 Resp: 116413

Ion Ratio Lower Upper

276 100

277 26.0 19.5 29.3

138 42.1 35.7 53.5



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

