

Data Path : Z:\HPCHEM1\BNA G\DATA\BG042815\
 Data File : BG016771.D
 Acq On : 28 Apr 2015 19:01
 Operator : TP/IZ
 Sample : G1991-15DL 2X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB-64SDL

Quant Time: Apr 29 01:35:53 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG042315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 29 00:55:31 2015
 Response via : Initial Calibration

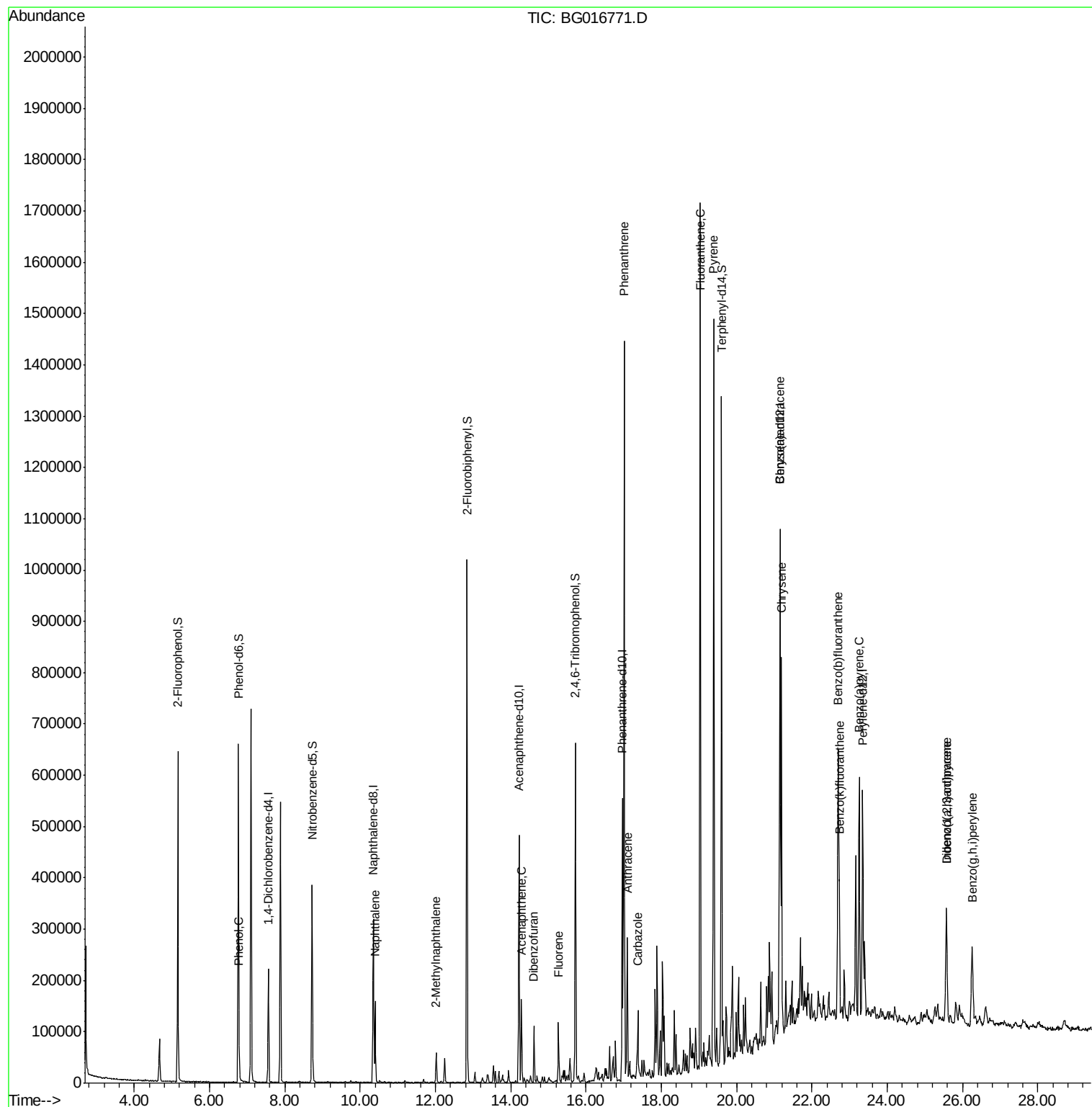
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.57	152	64290	20.00	ng	0.00
21) Naphthalene-d8	10.35	136	281208	20.00	ng	0.00
38) Acenaphthene-d10	14.22	164	156970	20.00	ng	0.00
63) Phenanthrene-d10	16.97	188	299225	20.00	ng	0.00
75) Chrysene-d12	21.16	240	252489	20.00	ng	0.00
86) Perylene-d12	23.35	264	248709	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.16	112	322346	81.36	ng	0.00
7) Phenol-d6	6.77	99	449732	80.92	ng	0.00
23) Nitrobenzene-d5	8.72	82	227902	51.21	ng	0.00
41) 2,4,6-Tribromophenol	15.72	330	96639	82.99	ng	0.00
44) 2-Fluorobiphenyl	12.84	172	513661	52.58	ng	0.00
78) Terphenyl-d14	19.60	244	510240	46.55	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.79	94	15513	2.65	ng	93
31) Naphthalene	10.40	128	140214	9.46	ng	100
37) 2-Methylnaphthalene	12.03	142	33366	3.12	ng	94
51) Acenaphthene	14.28	154	61403	6.16	ng	98
54) Dibenzofuran	14.62	168	63511	4.52	ng	94
57) Fluorene	15.27	166	52732	4.29	ng	98
70) Phenanthrene	17.01	178	818689	47.63	ng	99
71) Anthracene	17.10	178	161703	9.46	ng	97
72) Carbazole	17.38	167	80664	4.71	ng	97
74) Fluoranthene	19.03	202	874810	48.03	ng	98
77) Pyrene	19.40	202	824055	46.46	ng	99
80) Benzo(a)anthracene	21.14	228	377191	24.64	ng	97
82) Chrysene	21.20	228	361931m	24.66	ng	
85) Indeno(1,2,3-cd)pyrene	25.57	276	159755	9.99	ng	90
87) Benzo(b)fluoranthene	22.70	252	391187m	25.89	ng	
88) Benzo(k)fluoranthene	22.73	252	115180m	7.81	ng	
89) Benzo(a)pyrene	23.26	252	284483	19.98	ng	98
90) Dibenzo(a,h)anthracene	25.58	278	43596	3.15	ng	# 92
91) Benzo(a,h,i)perylene	26.26	276	155640	11.05	ng	97

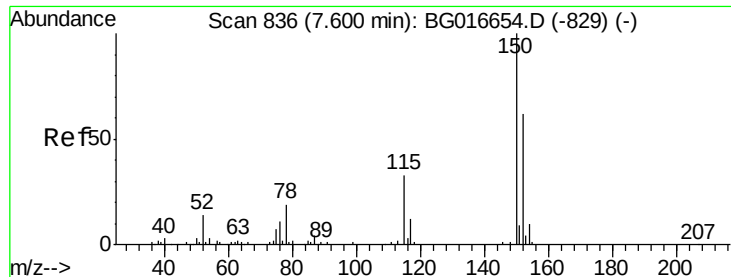
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.57 min Scan# 830

Delta R.T. 0.00 min

Lab File: BG016771.D

Acq: 28 Apr 2015 19:01

Instrument :

BNA_G

ClientSampleId :

SB-64SDL

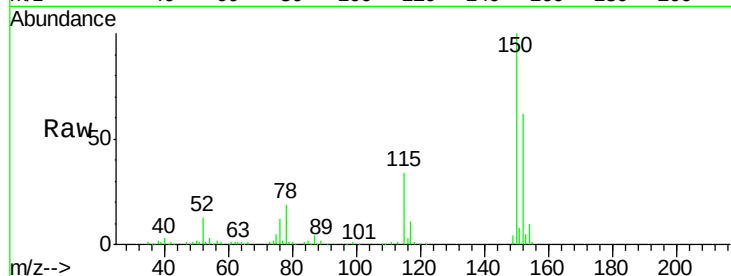
Tot Ion:152 Resp: 64290

Ion Ratio Lower Upper

152 100

150 160.9 129.6 194.4

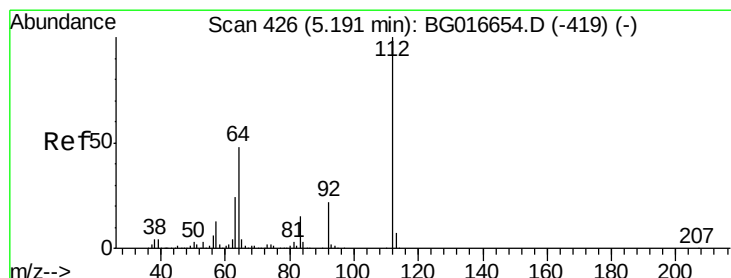
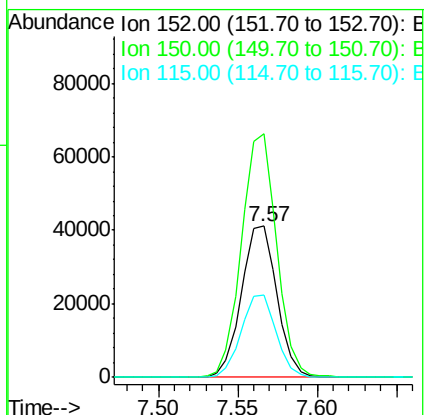
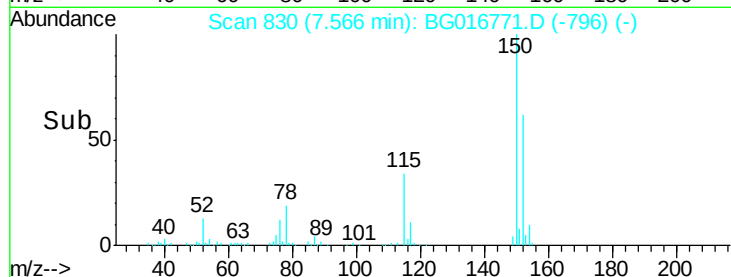
115 54.7 43.0 64.6



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: 81.36 ng

RT: 5.16 min Scan# 420

Delta R.T. 0.00 min

Lab File: BG016771.D

Acq: 28 Apr 2015 19:01

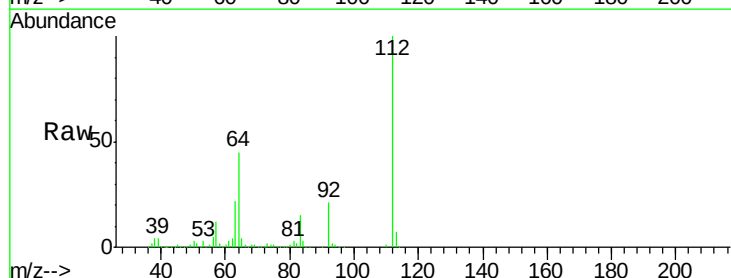
Tgt Ion:112 Resp: 322346

Ion Ratio Lower Upper

112 100

64 45.2 38.3 57.5

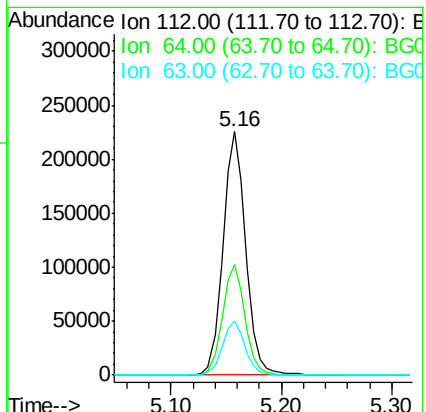
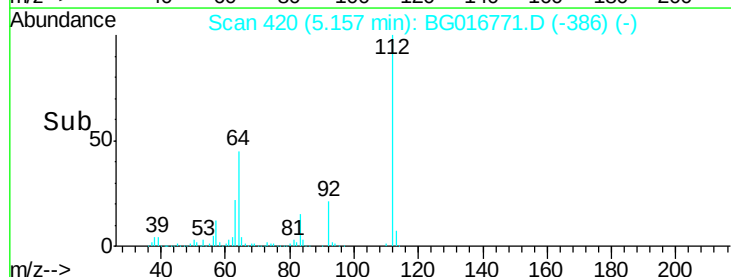
63 22.2 18.9 28.3

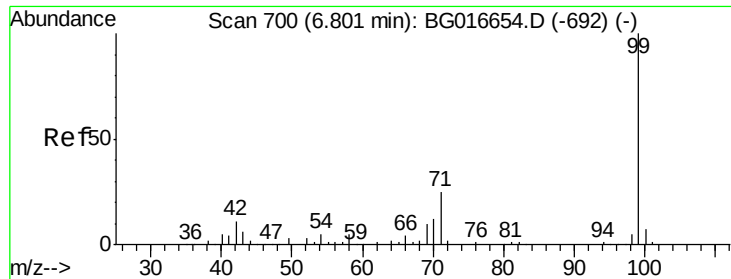


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG

Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 80.92 ng

RT: 6.77 min Scan# 694

Delta R.T. -0.01 min

Lab File: BG016771.D

Acq: 28 Apr 2015 19:01

Instrument :

BNA_G

ClientSampleId :

SB-64SDL

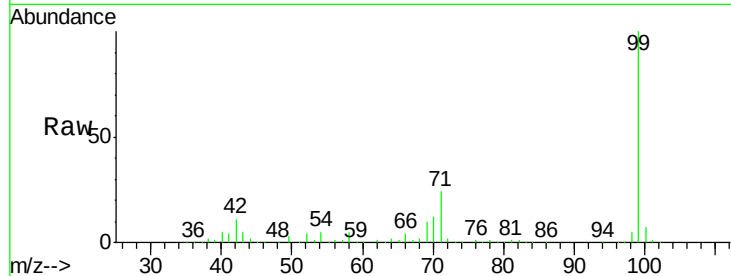
Tot Ion: 99 Resp: 449732

Ion Ratio Lower Upper

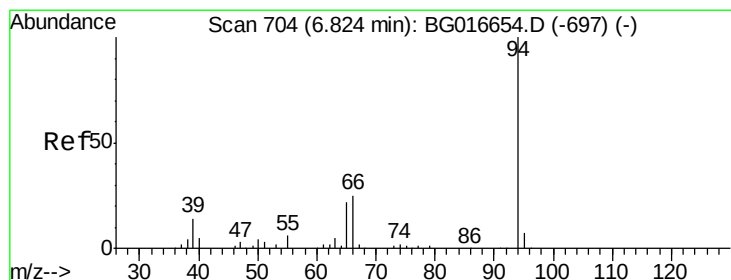
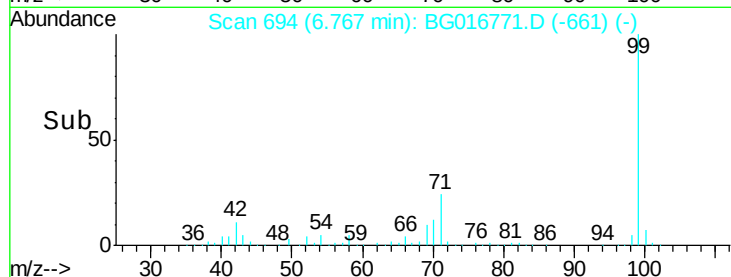
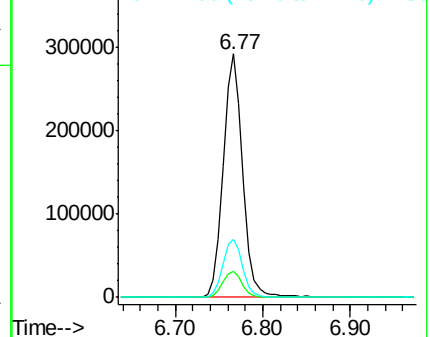
99 100

42 10.6 8.8 13.2

71 23.9 19.9 29.9



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



#10

Phenol

Concen: 2.65 ng

RT: 6.79 min Scan# 698

Delta R.T. -0.01 min

Lab File: BG016771.D

Acq: 28 Apr 2015 19:01

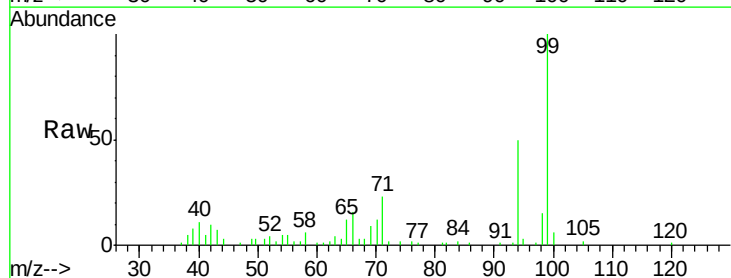
Tgt Ion: 94 Resp: 15513

Ion Ratio Lower Upper

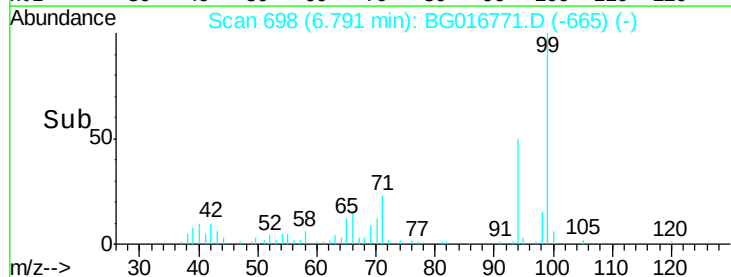
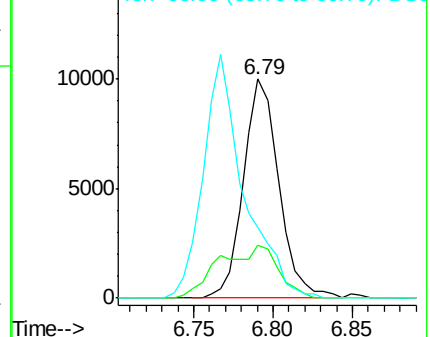
94 100

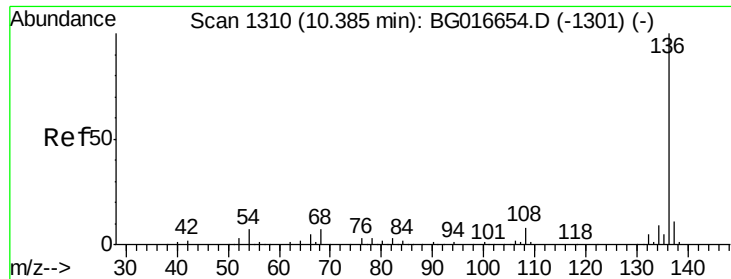
65 24.0 2.6 42.6

66 32.4 7.0 47.0



Abundance Ion 94.00 (93.70 to 94.70): BGC
Ion 65.00 (64.70 to 65.70): BGC
Ion 66.00 (65.70 to 66.70): BGC

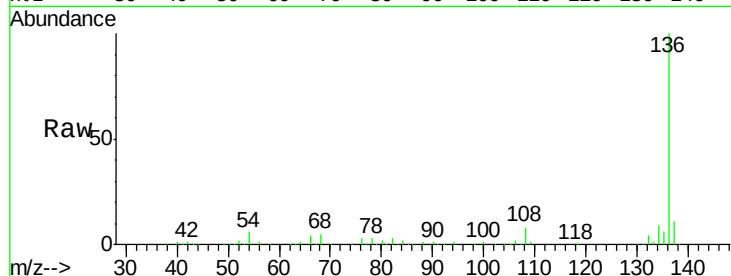




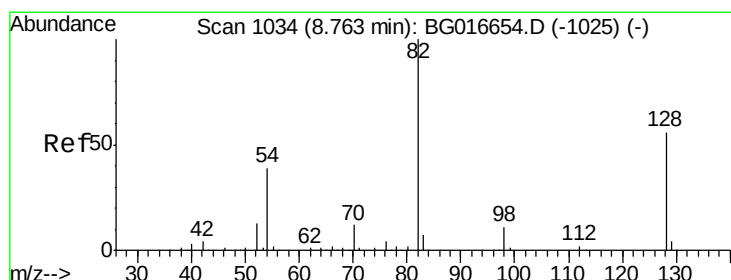
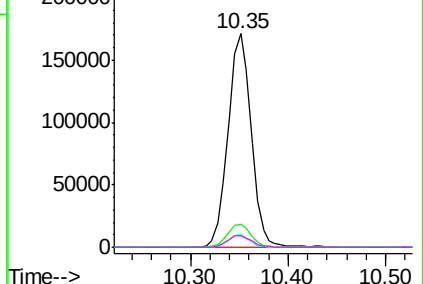
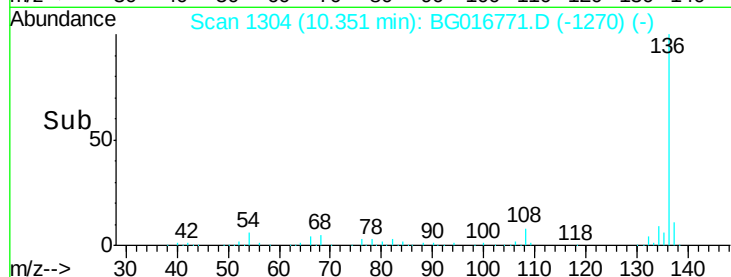
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.35 min Scan# 1304
Delta R.T. 0.00 min
Lab File: BG016771.D
Acq: 28 Apr 2015 19:01

Instrument :
BNA_G
ClientSampleId :
SB-64SDL

Tot Ion:136	Resp:	281208
Ion	Ratio	Lower Upper
136	100	
137	10.7	8.5 12.7
54	5.8	5.4 8.2
68	5.2	5.2 7.8

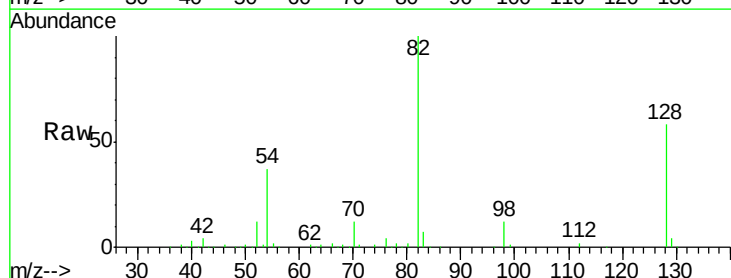


Abundance Ion 136.00 (135.70 to 136.70): BGC
Ion 137.00 (136.70 to 137.70): BGC
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

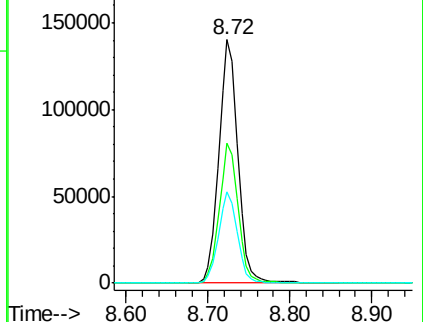
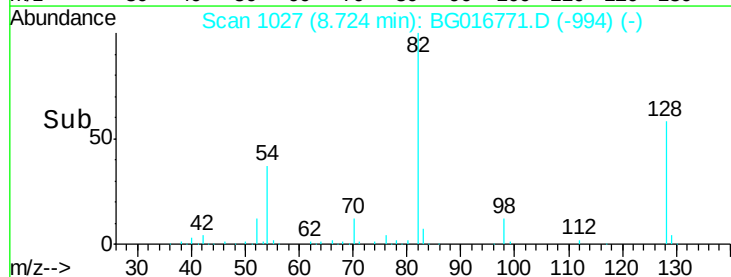


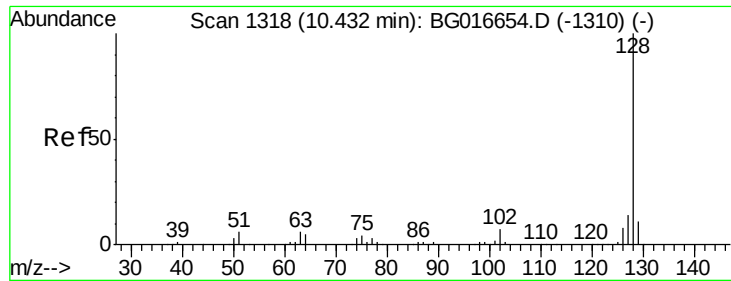
#23
Nitrobenzene-d5
Concen: 51.21 ng
RT: 8.72 min Scan# 1027
Delta R.T. -0.01 min
Lab File: BG016771.D
Acq: 28 Apr 2015 19:01

Tgt Ion: 82	Resp:	227902
Ion	Ratio	Lower Upper
82	100	
128	57.5	44.7 67.1
54	37.3	30.9 46.3



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

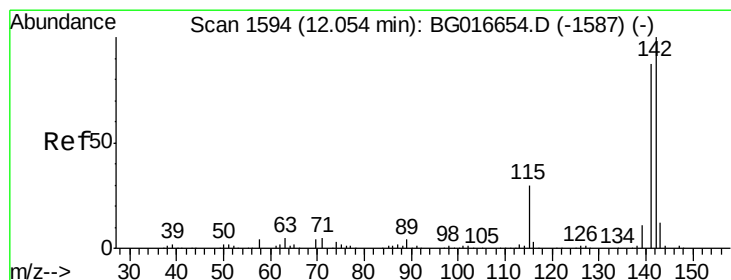
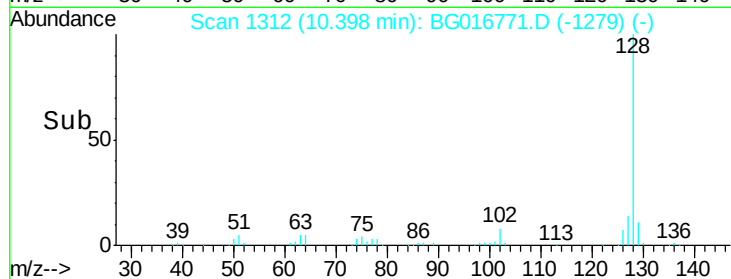
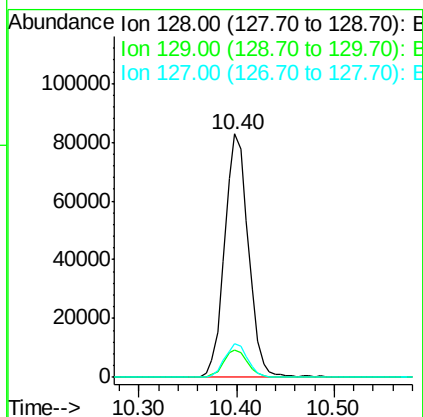
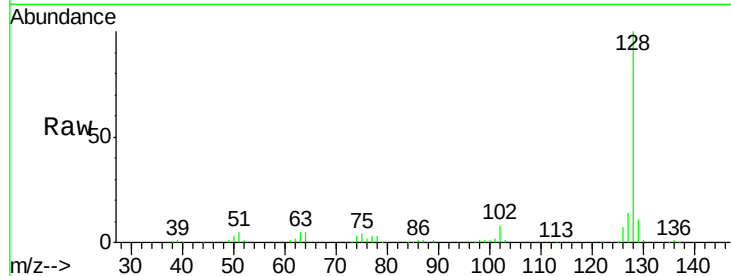




#31
Naphthalene
Concen: 9.46 ng
RT: 10.40 min Scan# 1312
Delta R.T. -0.01 min
Lab File: BG016771.D
Acq: 28 Apr 2015 19:01

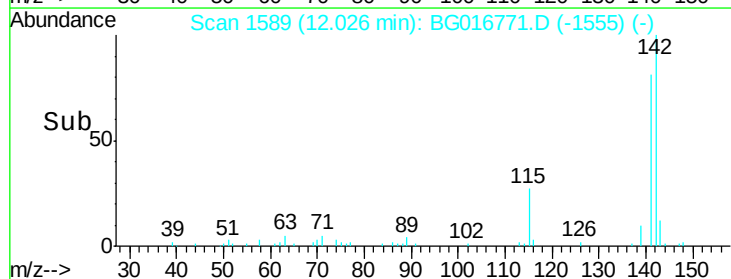
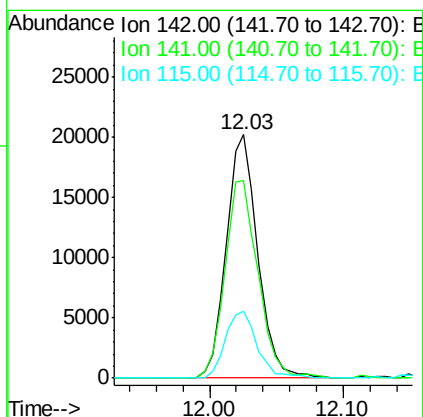
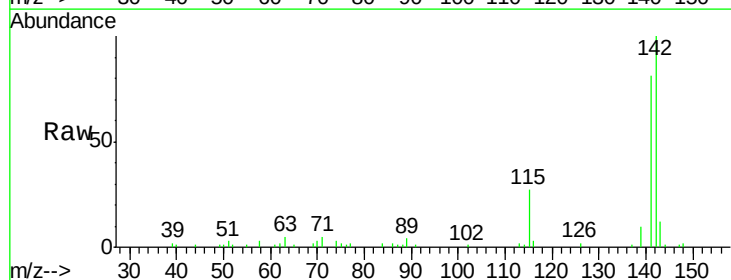
Instrument :
BNA_G
ClientSampleId :
SB-64SDL

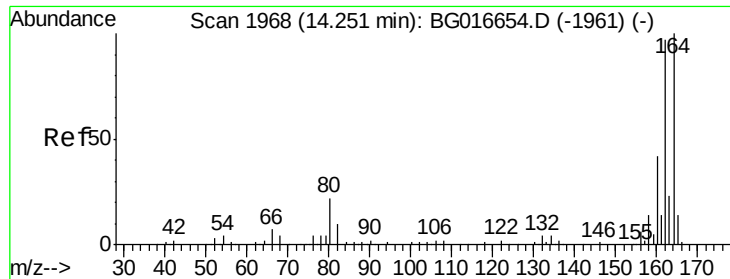
Tot Ion:128 Resp: 140214
Ion Ratio Lower Upper
128 100
129 11.2 9.0 13.6
127 13.6 11.1 16.7



#37
2-Methylnaphthalene
Concen: 3.12 ng
RT: 12.03 min Scan# 1589
Delta R.T. 0.00 min
Lab File: BG016771.D
Acq: 28 Apr 2015 19:01

Tgt Ion:142 Resp: 33366
Ion Ratio Lower Upper
142 100
141 81.0 69.9 104.9
115 27.3 24.0 36.0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.22 min Scan# 1963

Delta R.T. -0.01 min

Lab File: BG016771.D

Acq: 28 Apr 2015 19:01

Instrument :

BNA_G

ClientSampleId :

SB-64SDL

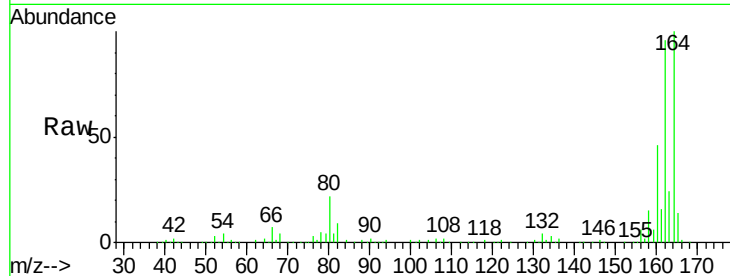
Tot Ion:164 Resp: 156970

Ion Ratio Lower Upper

164 100

162 96.1 77.3 115.9

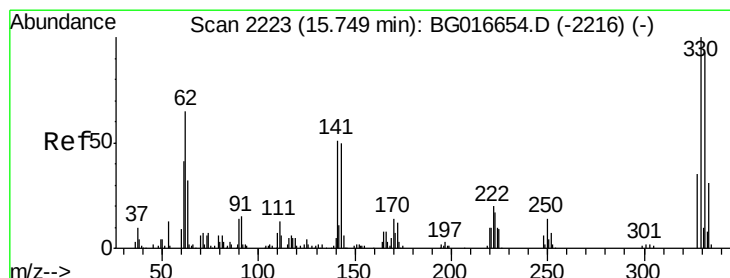
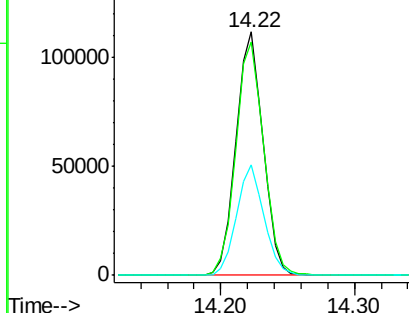
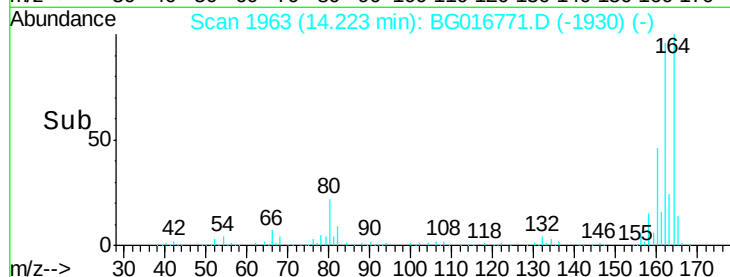
160 45.5 33.7 50.5



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: 82.99 ng

RT: 15.72 min Scan# 2218

Delta R.T. -0.01 min

Lab File: BG016771.D

Acq: 28 Apr 2015 19:01

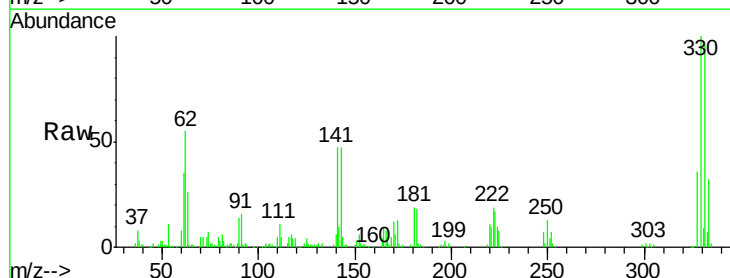
Tgt Ion:330 Resp: 96639

Ion Ratio Lower Upper

330 100

332 96.3 76.2 114.4

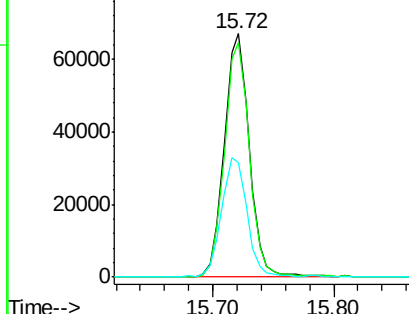
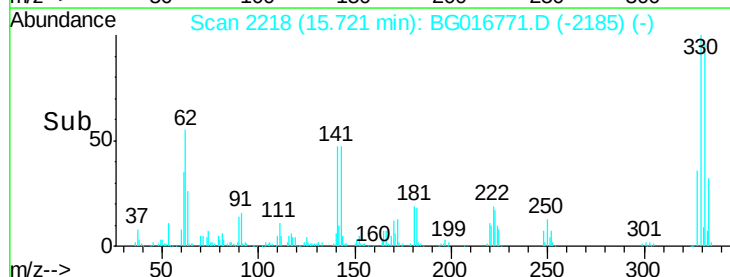
141 50.1 43.0 64.6

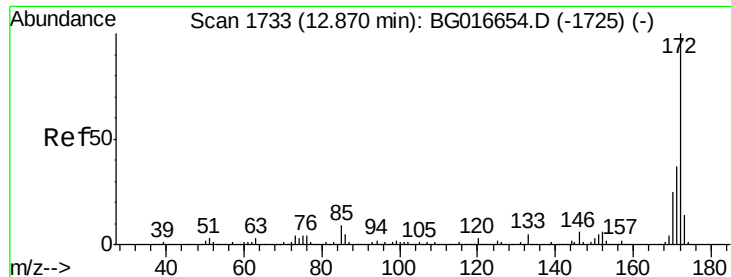


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

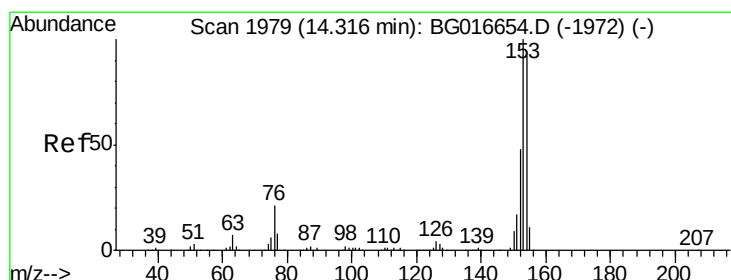
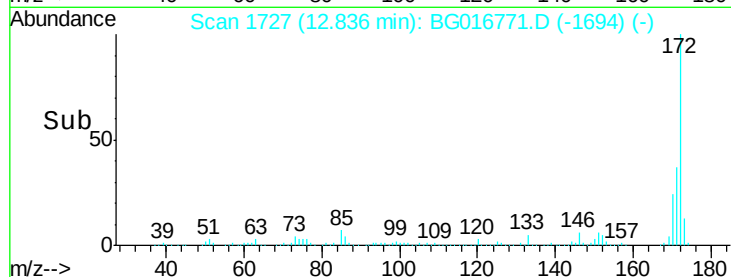
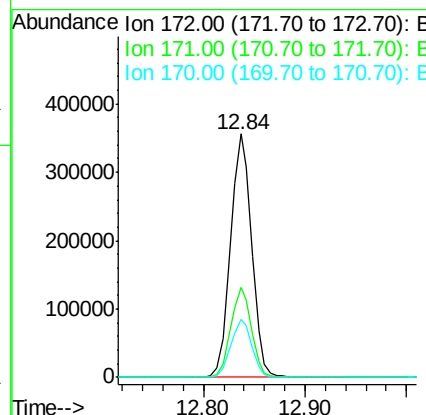
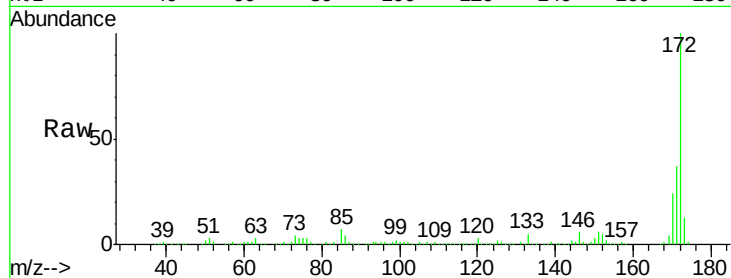




#44
2-Fluorobiphenyl
Concen: 52.58 ng
RT: 12.84 min Scan# 1727
Delta R.T. -0.01 min
Lab File: BG016771.D
Acq: 28 Apr 2015 19:01

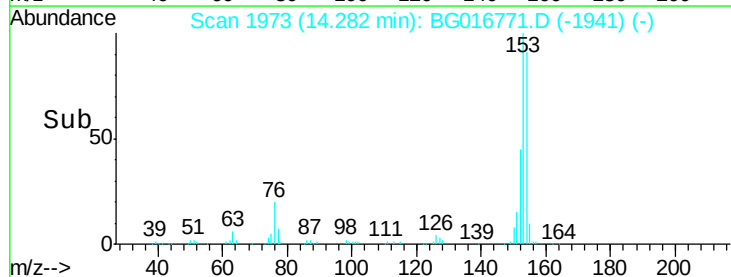
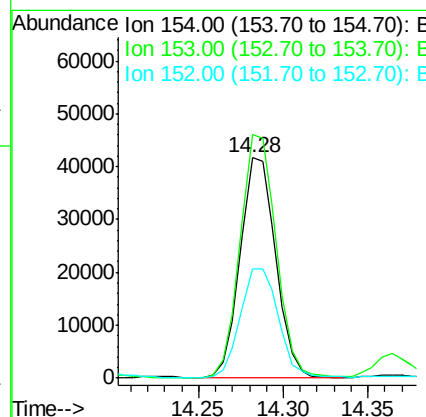
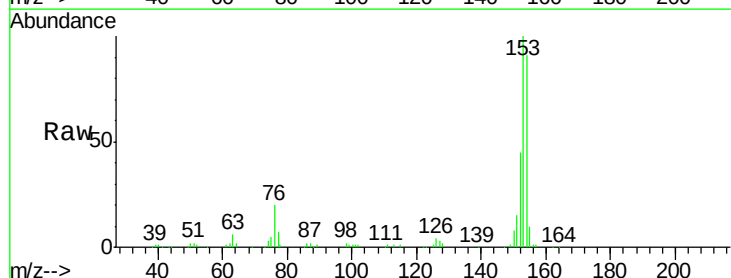
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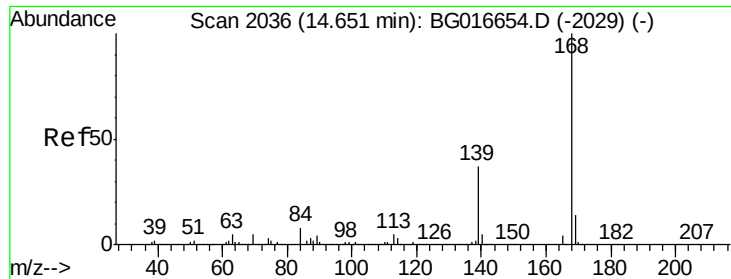
Tot Ion:172 Resp: 513661
Ion Ratio Lower Upper
172 100
171 37.0 29.9 44.9
170 24.0 19.8 29.8



#51
Acenaphthene
Concen: 6.16 ng
RT: 14.28 min Scan# 1973
Delta R.T. -0.01 min
Lab File: BG016771.D
Acq: 28 Apr 2015 19:01

Tgt Ion:154 Resp: 61403
Ion Ratio Lower Upper
154 100
153 110.5 87.0 130.6
152 49.7 41.6 62.4

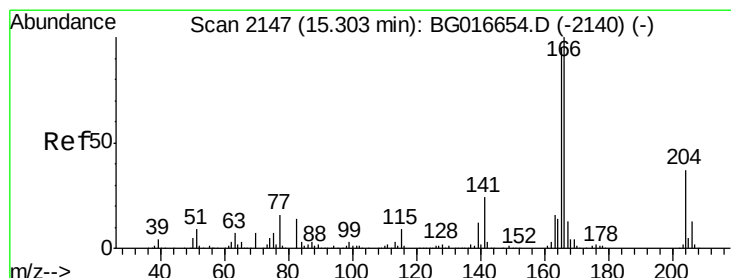
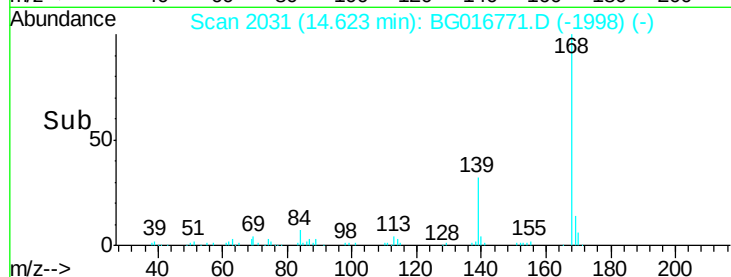
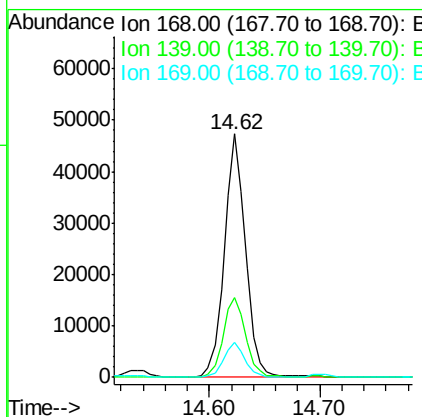
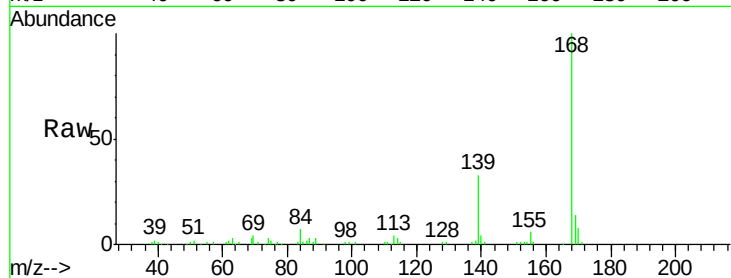




#54
Dibenzofuran
Concen: 4.52 ng
RT: 14.62 min Scan# 2031
Delta R.T. -0.01 min
Lab File: BG016771.D
Acq: 28 Apr 2015 19:01

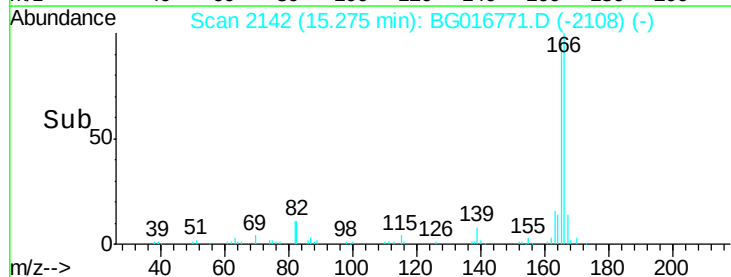
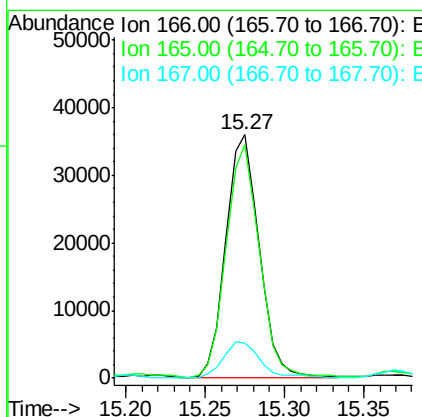
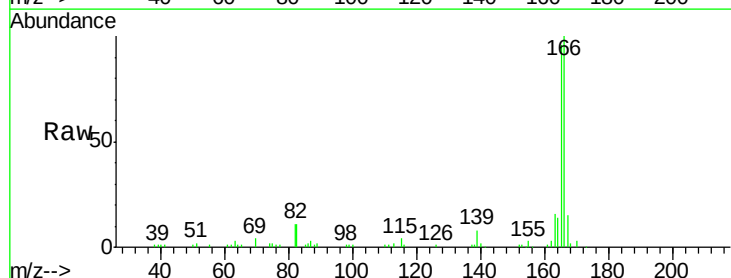
Instrument :
BNA_G
ClientSampleId :
SB-64SDL

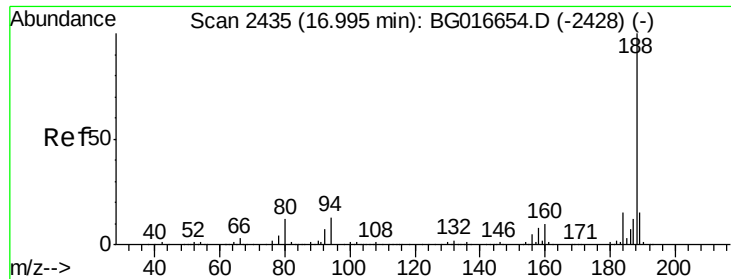
Tot Ion:168 Resp: 63511
Ion Ratio Lower Upper
168 100
139 32.7 29.8 44.8
169 14.2 11.0 16.4



#57
Fluorene
Concen: 4.29 ng
RT: 15.27 min Scan# 2142
Delta R.T. 0.00 min
Lab File: BG016771.D
Acq: 28 Apr 2015 19:01

Tgt Ion:166 Resp: 52732
Ion Ratio Lower Upper
166 100
165 95.9 75.6 113.4
167 14.6 10.7 16.1

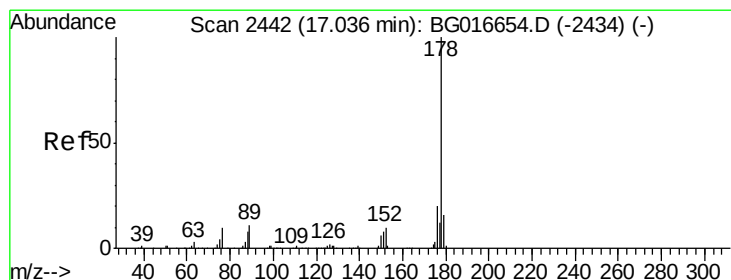
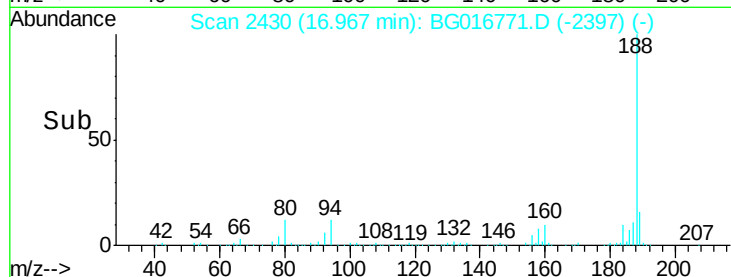
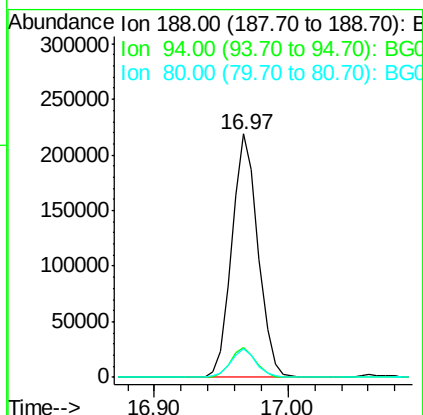
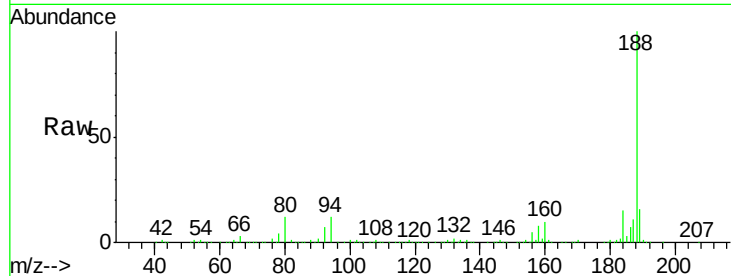




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 16.97 min Scan# 2430
Delta R.T. -0.01 min
Lab File: BG016771.D
Acq: 28 Apr 2015 19:01

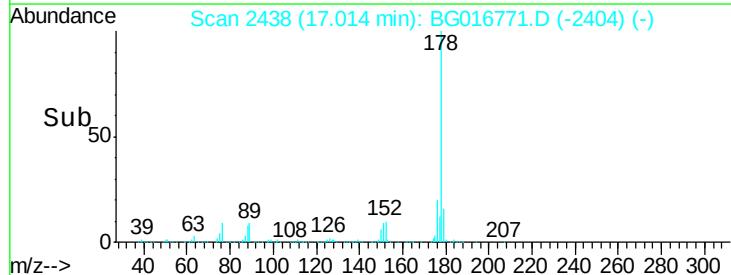
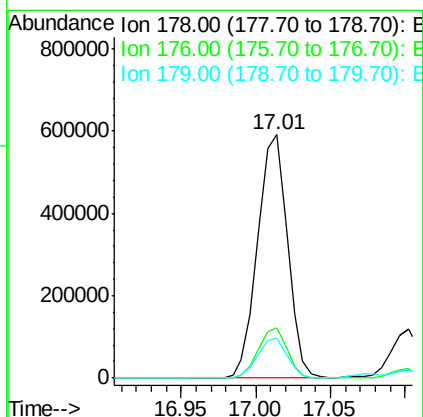
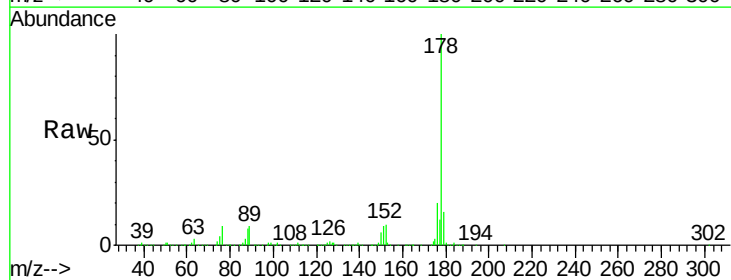
Instrument :
BNA_G
ClientSampleId :
SB-64SDL

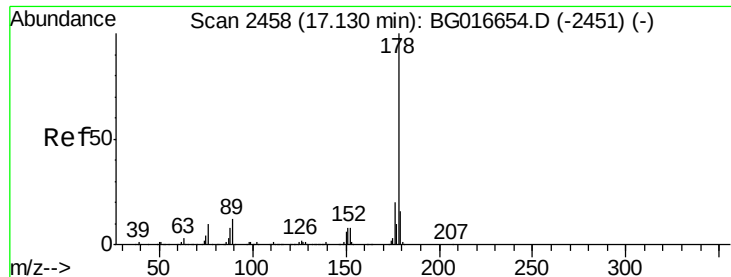
Tot Ion:188 Resp: 299225
Ion Ratio Lower Upper
188 100
94 12.0 10.7 16.1
80 11.9 9.9 14.9



#70
Phenanthrene
Concen: 47.63 ng
RT: 17.01 min Scan# 2438
Delta R.T. 0.00 min
Lab File: BG016771.D
Acq: 28 Apr 2015 19:01

Tgt Ion:178 Resp: 818689
Ion Ratio Lower Upper
178 100
176 20.4 15.8 23.6
179 16.5 12.8 19.2

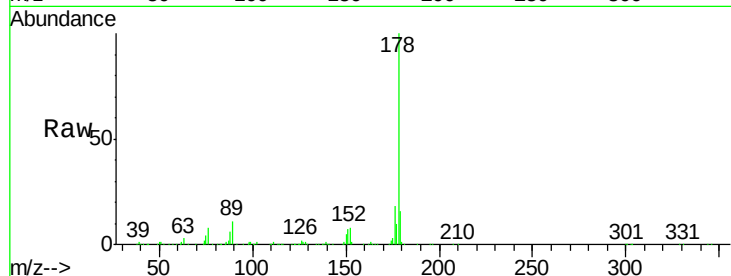




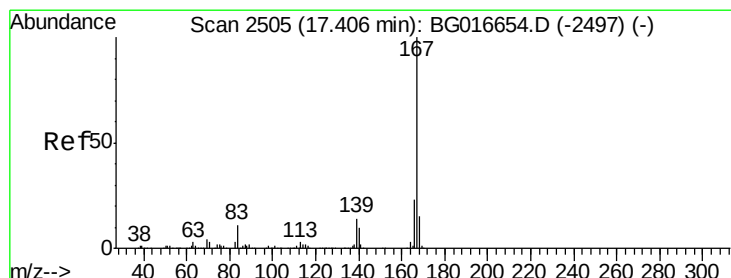
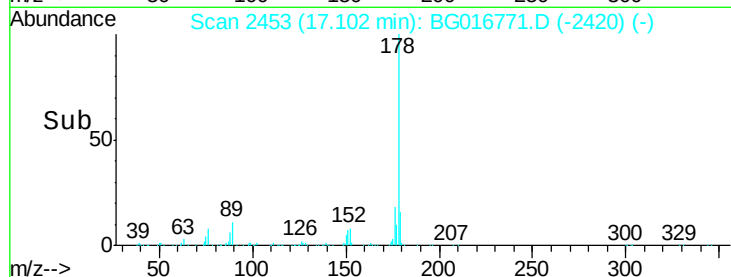
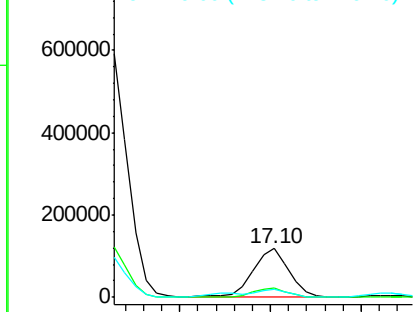
#71
 Anthracene
 Concen: 9.46 ng
 RT: 17.10 min Scan# 2453
 Delta R.T. -0.01 min
 Lab File: BG016771.D
 Acq: 28 Apr 2015 19:01

Instrument :
 BNA_G
 ClientSampleId :
 SB-64SDL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.1	16.0	24.0
179	16.4	12.9	19.3

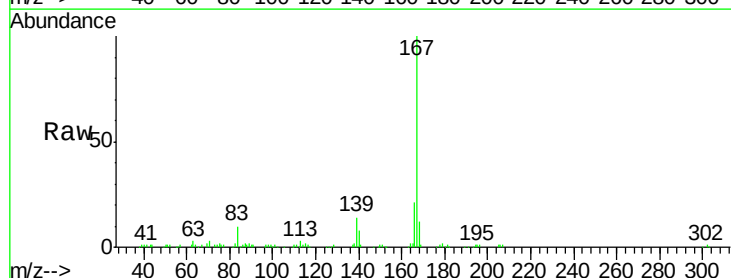


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

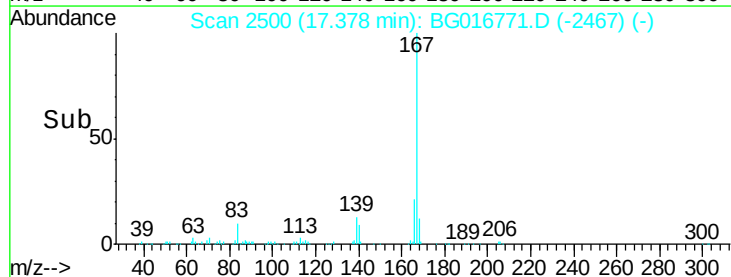
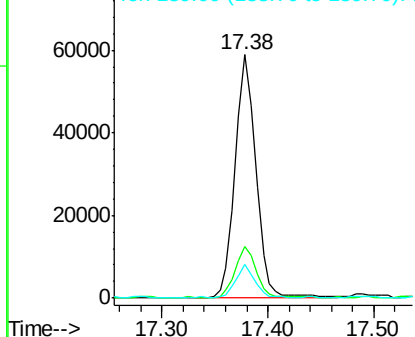


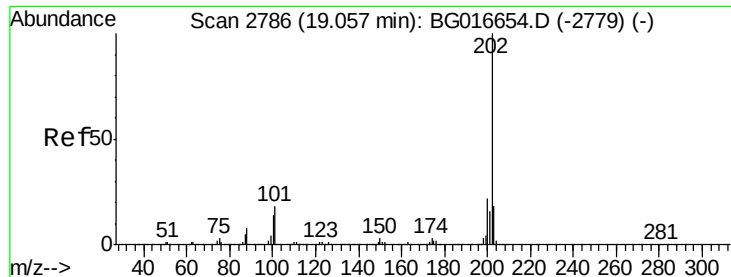
#72
 Carbazole
 Concen: 4.71 ng
 RT: 17.38 min Scan# 2500
 Delta R.T. -0.01 min
 Lab File: BG016771.D
 Acq: 28 Apr 2015 19:01

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.0	18.4	27.6
139	13.7	11.1	16.7



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





#74

Fluoranthene

Concen: 48.03 ng

RT: 19.03 min Scan# 2782

Delta R.T. 0.00 min

Lab File: BG016771.D

Acq: 28 Apr 2015 19:01

Instrument :

BNA_G

ClientSampleId :

SB-64SDL

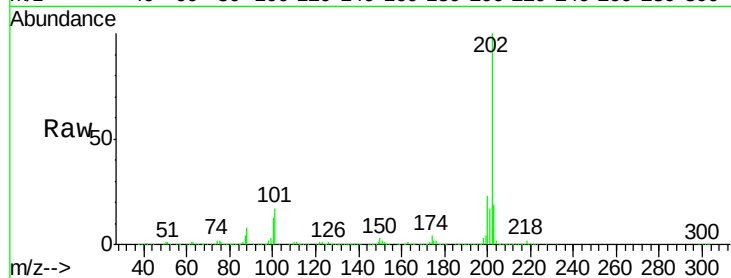
Tot Ion:202 Resp: 874810

Ion Ratio Lower Upper

202 100

101 17.0 0.0 38.1

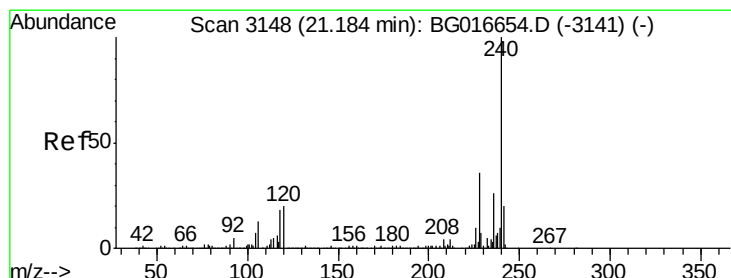
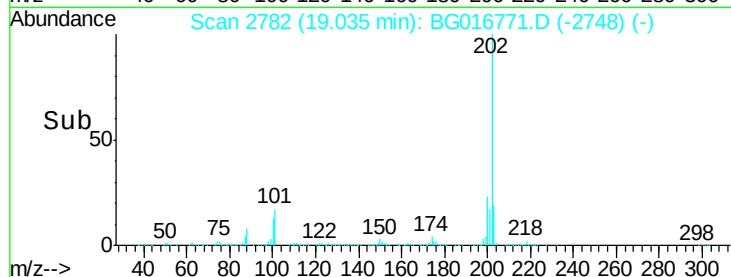
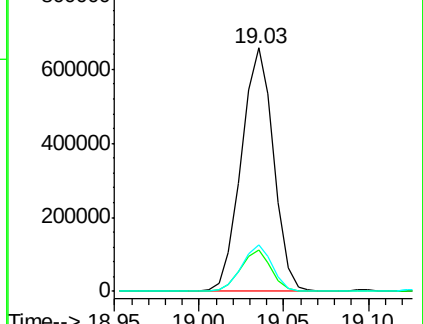
203 19.1 0.0 38.4



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# 3143

Delta R.T. -0.01 min

Lab File: BG016771.D

Acq: 28 Apr 2015 19:01

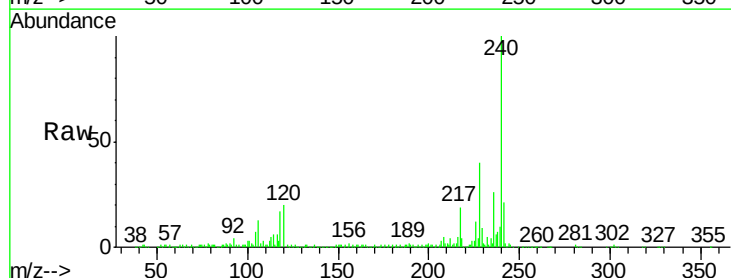
Tgt Ion:240 Resp: 252489

Ion Ratio Lower Upper

240 100

120 19.5 16.3 24.5

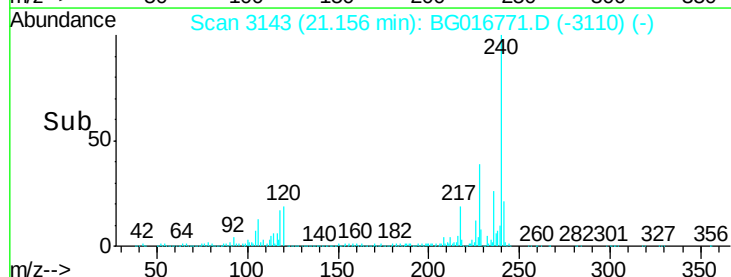
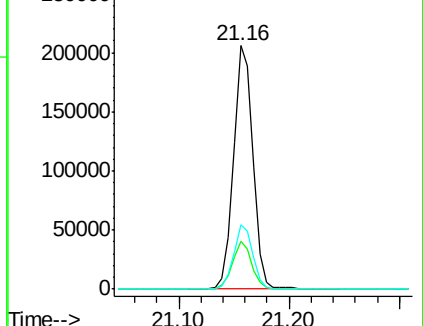
236 26.3 21.1 31.7

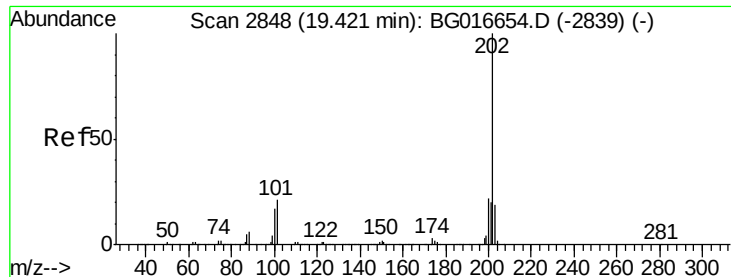


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 46.46 ng

RT: 19.40 min Scan# 2844

Delta R.T. 0.00 min

Lab File: BG016771.D

Acq: 28 Apr 2015 19:01

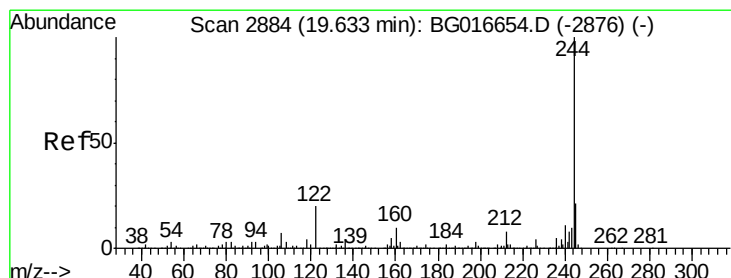
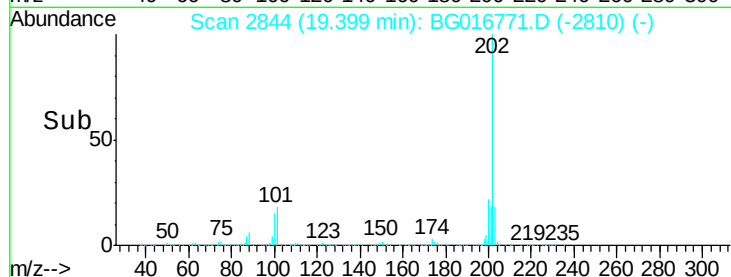
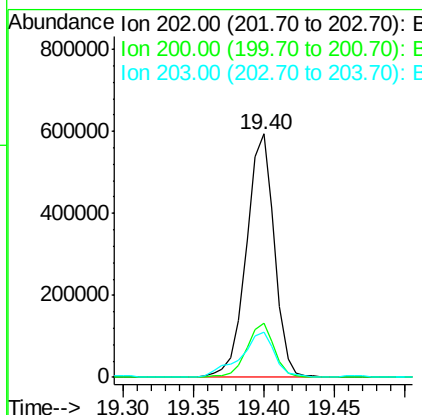
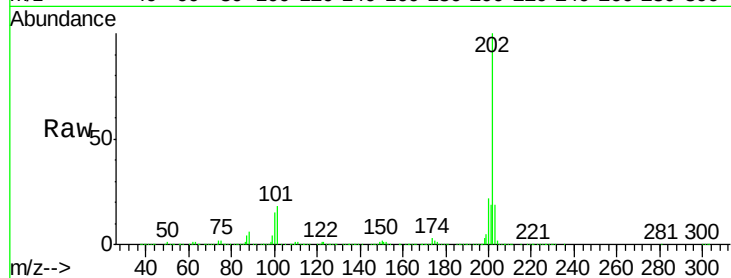
Instrument :

BNA_G

ClientSampleId :

SB-64SDL

Tot Ion:202	Resp:	824055
Ion Ratio	Lower	Upper
202	100	
200	22.1	18.0 27.0
203	18.5	14.9 22.3



#78

Terphenyl-d14

Concen: 46.55 ng

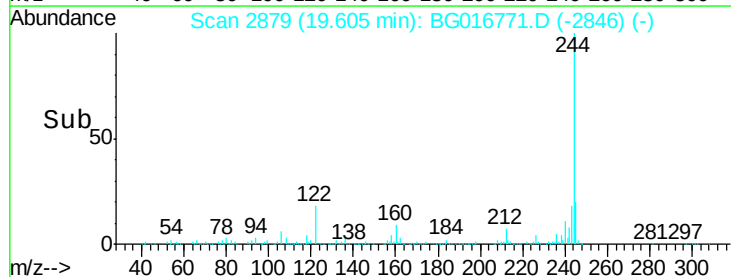
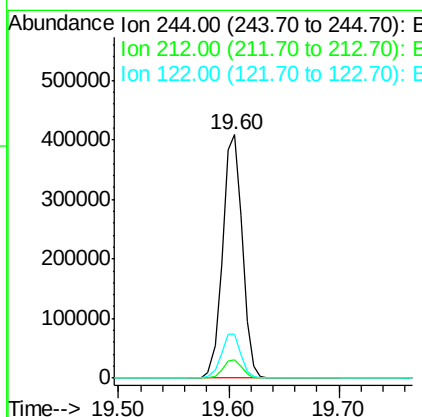
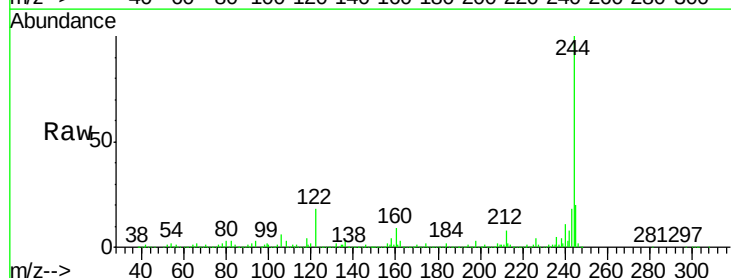
RT: 19.60 min Scan# 2879

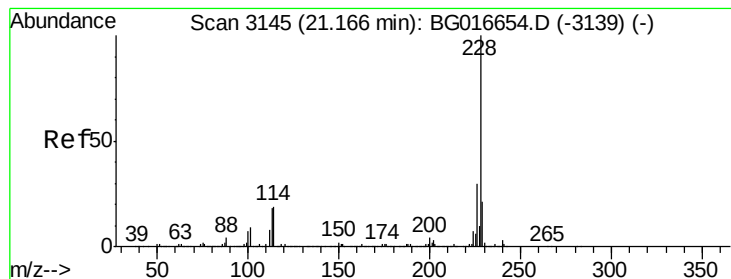
Delta R.T. -0.01 min

Lab File: BG016771.D

Acq: 28 Apr 2015 19:01

Tgt Ion:244	Resp:	510240
Ion Ratio	Lower	Upper
244	100	
212	7.5	6.4 9.6
122	18.1	15.9 23.9





#80

Benzo(a)anthracene

Concen: 24.64 ng

RT: 21.14 min Scan# 3141

Delta R.T. 0.00 min

Lab File: BG016771.D

Acq: 28 Apr 2015 19:01

Instrument :

BNA_G

ClientSampleId :

SB-64SDL

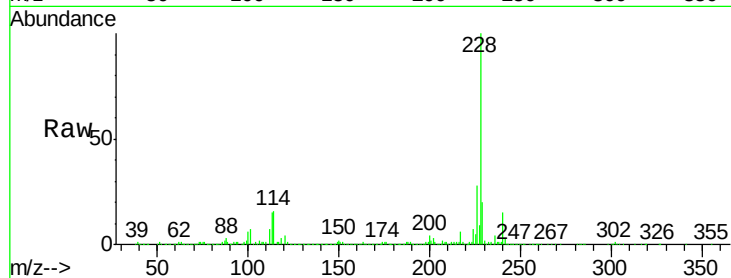
Tot Ion:228 Resp: 377191

Ion Ratio Lower Upper

228 100

226 27.8 23.8 35.6

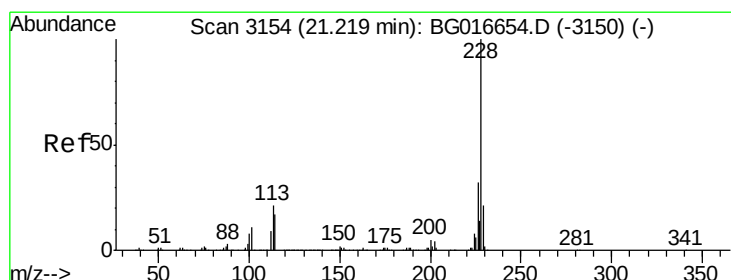
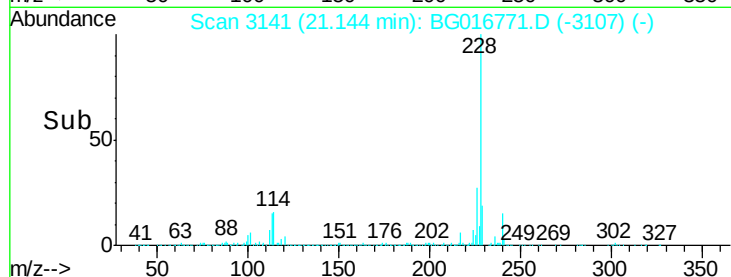
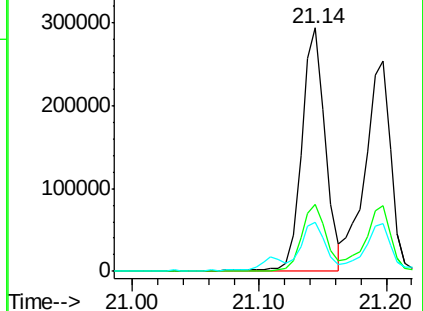
229 20.1 17.0 25.4



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



#82

Chrysene

Concen: 24.66 ng m

RT: 21.20 min Scan# 3150

Delta R.T. 0.00 min

Lab File: BG016771.D

Acq: 28 Apr 2015 19:01

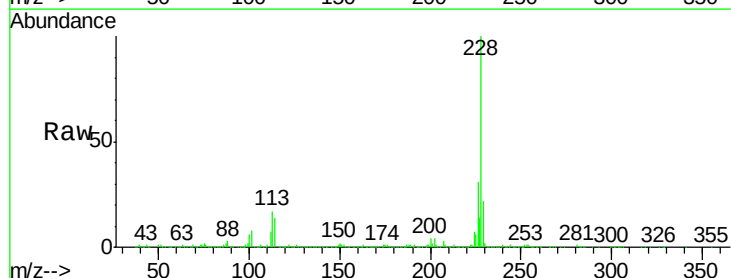
Tgt Ion:228 Resp: 361931

Ion Ratio Lower Upper

228 100

226 31.2 25.4 38.0

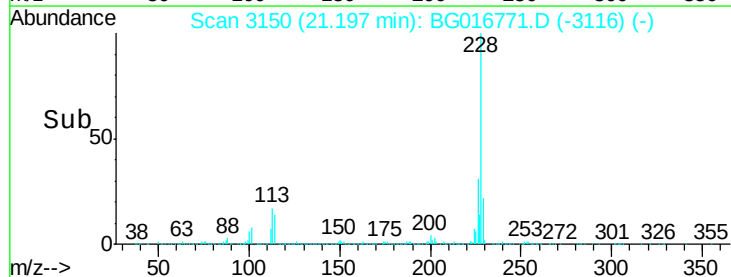
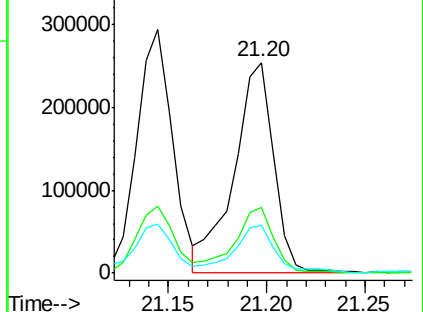
229 22.5 16.5 24.7

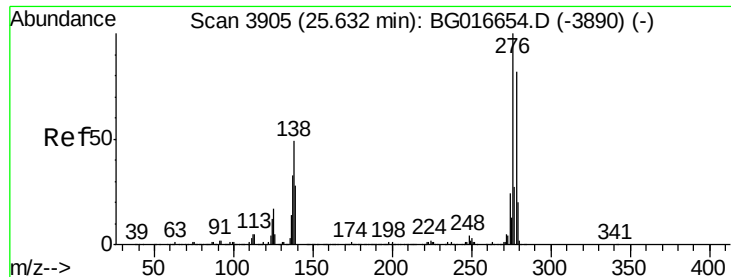


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

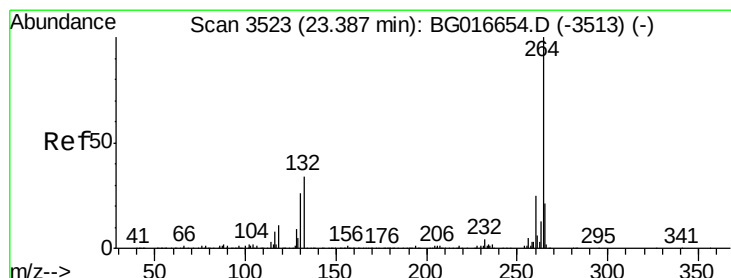
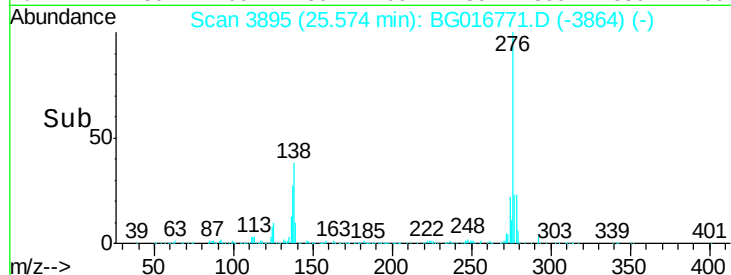
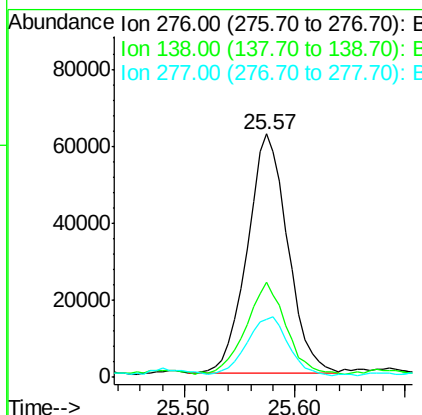
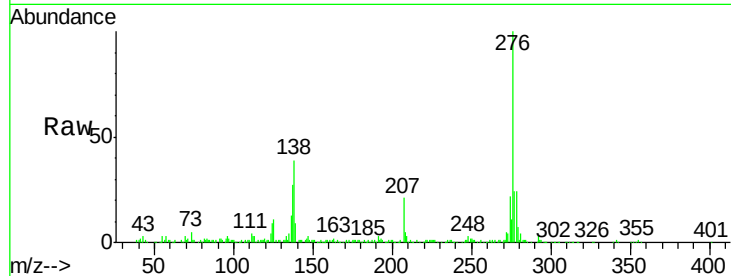




#85
Indeno(1,2,3-cd)pyrene
Concen: 9.99 ng
RT: 25.57 min Scan# 3895
Delta R.T. -0.02 min
Lab File: BG016771.D
Acq: 28 Apr 2015 19:01

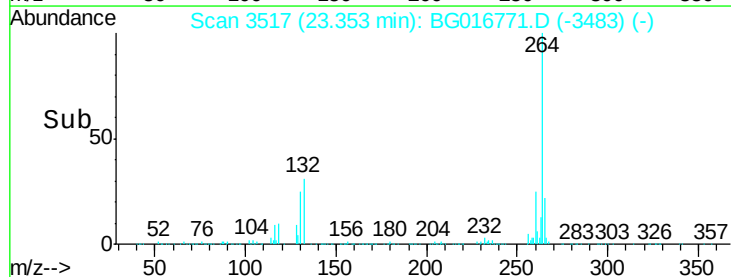
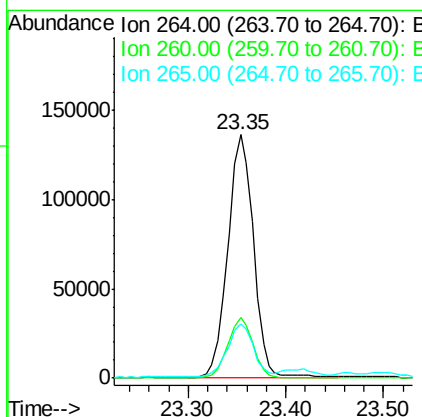
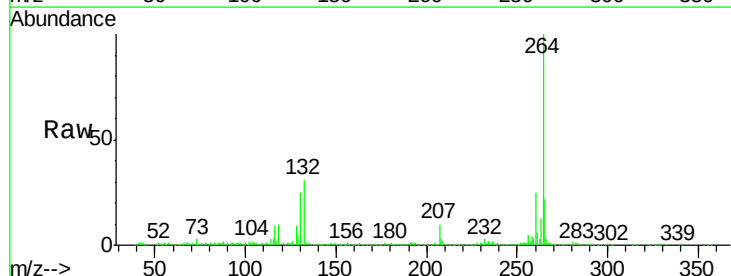
Instrument :
BNA_G
ClientSampleId :
SB-64SDL

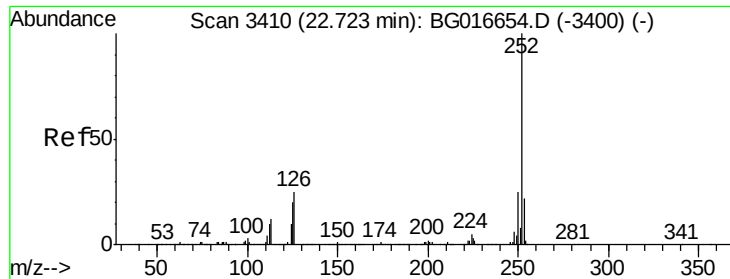
Tot Ion:276 Resp: 159755
Ion Ratio Lower Upper
276 100
138 38.6 38.2 57.2
277 24.6 21.4 32.2



#86
Perylene-d12
Concen: 20.00 ng
RT: 23.35 min Scan# 3517
Delta R.T. 0.00 min
Lab File: BG016771.D
Acq: 28 Apr 2015 19:01

Tgt Ion:264 Resp: 248709
Ion Ratio Lower Upper
264 100
260 24.8 20.0 30.0
265 22.3 16.8 25.2

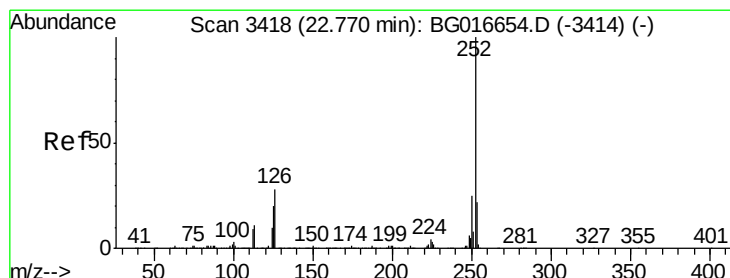
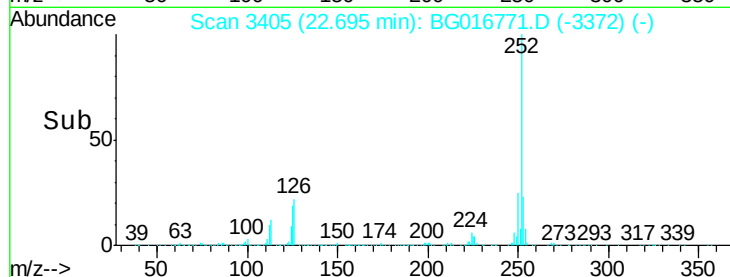
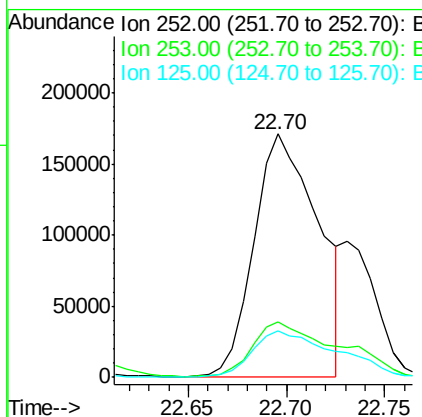
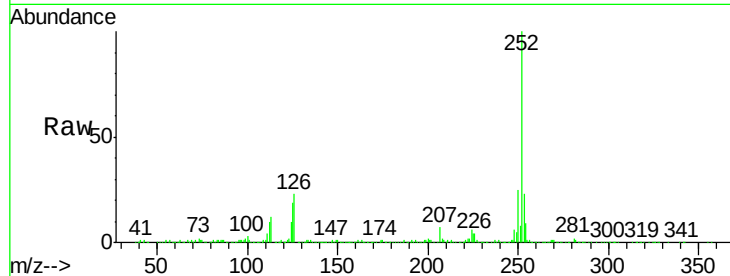




#87
Benzo(b)fluoranthene
Concen: 25.89 ng m
RT: 22.70 min Scan# 3405
Delta R.T. -0.01 min
Lab File: BG016771.D
Acq: 28 Apr 2015 19:01

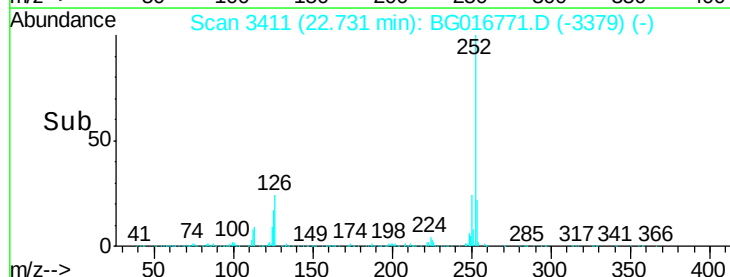
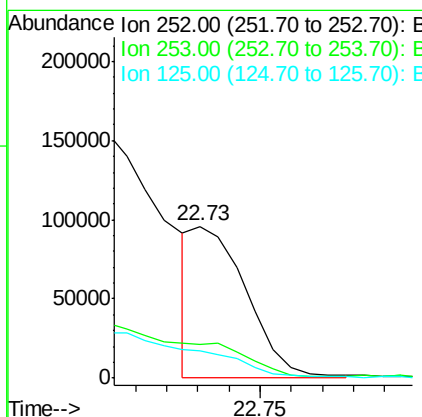
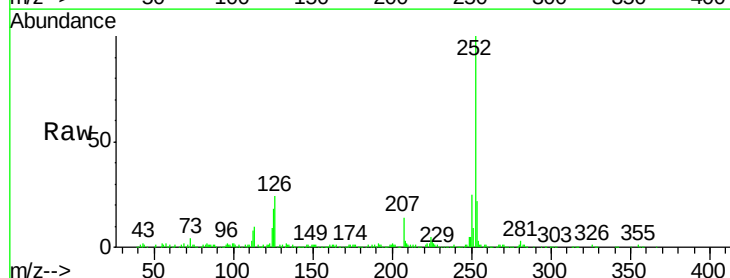
Instrument :
BNA_G
ClientSampleId :
SB-64SDL

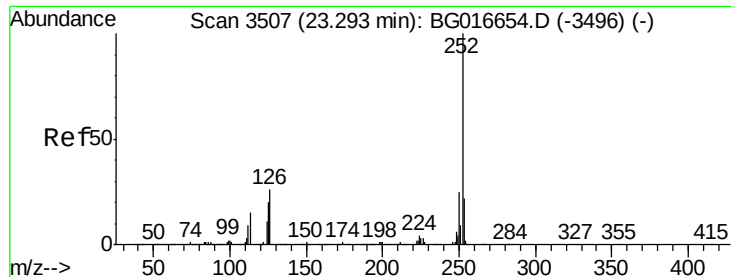
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.9	26.9
125	18.9	15.8	23.8



#88
Benzo(k)fluoranthene
Concen: 7.81 ng m
RT: 22.73 min Scan# 3411
Delta R.T. -0.01 min
Lab File: BG016771.D
Acq: 28 Apr 2015 19:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.6	26.4
125	17.8	15.5	23.3

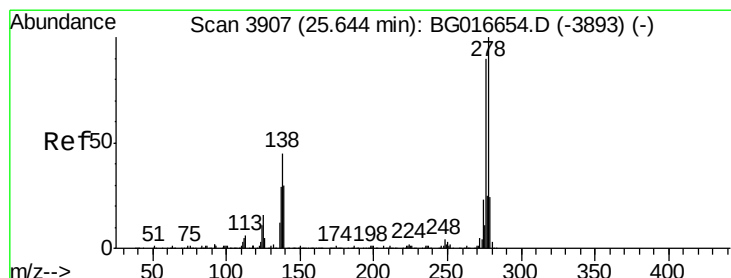
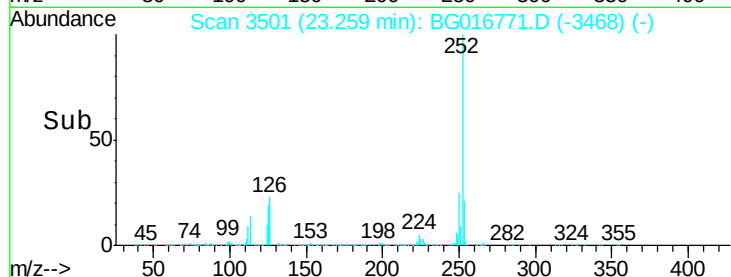
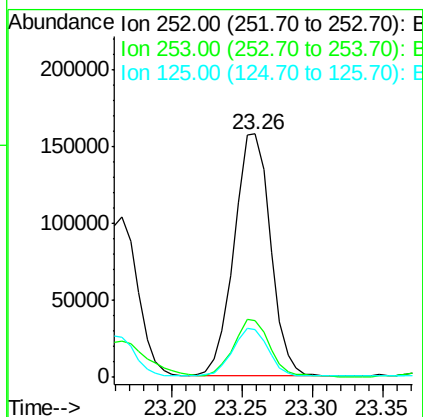
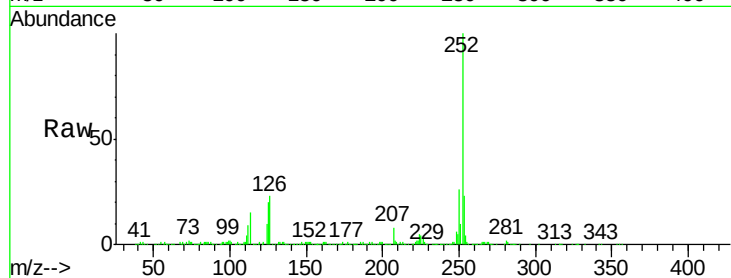




#89
Benzo(a)pyrene
Concen: 19.98 ng
RT: 23.26 min Scan# 3501
Delta R.T. -0.01 min
Lab File: BG016771.D
Acq: 28 Apr 2015 19:01

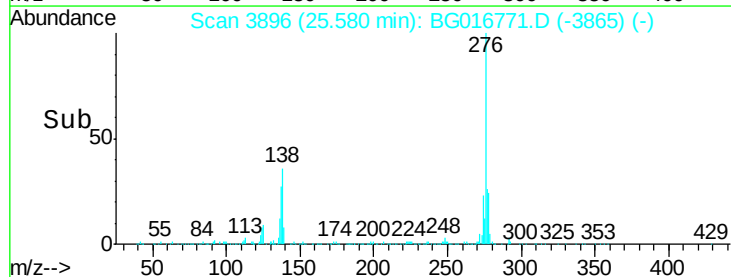
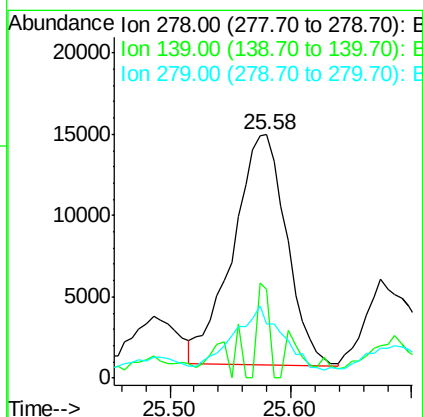
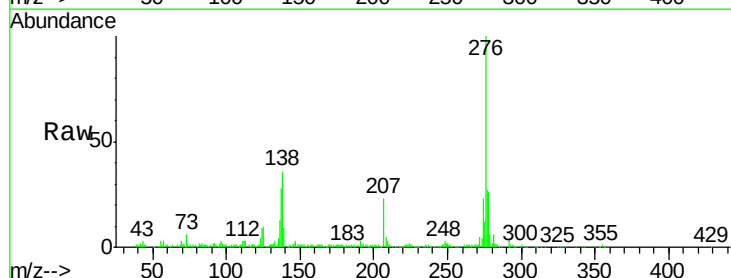
Instrument :
BNA_G
ClientSampleId :
SB-64SDL

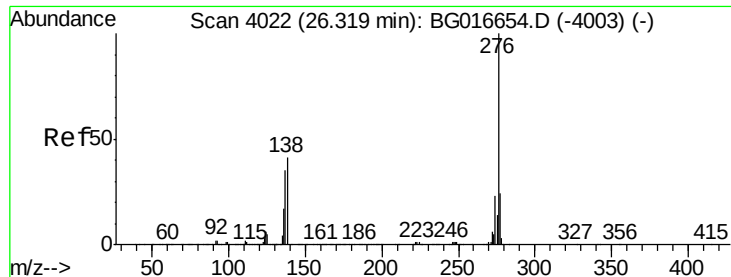
Tot Ion:252 Resp: 284483
Ion Ratio Lower Upper
252 100
253 23.1 17.2 25.8
125 19.8 16.3 24.5



#90
Dibenzo(a,h)anthracene
Concen: 3.15 ng
RT: 25.58 min Scan# 3896
Delta R.T. -0.02 min
Lab File: BG016771.D
Acq: 28 Apr 2015 19:01

Tgt Ion:278 Resp: 43596
Ion Ratio Lower Upper
278 100
139 36.5 24.2 36.2#
279 22.2 18.9 28.3

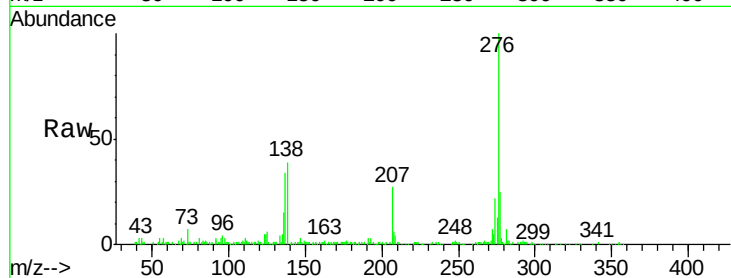




#91
 Benzo(a,h,i)perylene
 Concen: 11.05 ng
 RT: 26.26 min Scan# 4012
 Delta R.T. -0.01 min
 Lab File: BG016771.D
 Acq: 28 Apr 2015 19:01

Instrument :
 BNA_G
 ClientSampleId :
 SB-64SDL

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.3	28.9
138	38.7	32.8	49.2



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

