

Data Path : Z:\HPCHEM1\BNA G\DATA\BG042815\
 Data File : BG016772.D
 Acq On : 28 Apr 2015 19:36
 Operator : TP/IZ
 Sample : G1991-10DL 10X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB-73SDL

Quant Time: Apr 29 01:38:04 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	7.56	152	65971	20.00	ng	0.00
21) Naphthalene-d8	10.35	136	294311	20.00	ng	0.00
38) Acenaphthene-d10	14.22	164	163549	20.00	ng	0.00
63) Phenanthrene-d10	16.97	188	305071	20.00	ng	0.00
75) Chrysene-d12	21.16	240	260407	20.00	ng	0.00
86) Perylene-d12	23.36	264	248686	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.16	112	28882	7.10	ng	0.00
7) Phenol-d6	6.77	99	39589	6.94	ng	0.00
23) Nitrobenzene-d5	8.73	82	20576	4.42	ng	0.00
41) 2,4,6-Tribromophenol	15.73	330	7908	6.52	ng	0.00
44) 2-Fluorobiphenyl	12.84	172	52300	5.14	ng	0.00
78) Terphenyl-d14	19.60	244	53087	4.70	ng	0.00

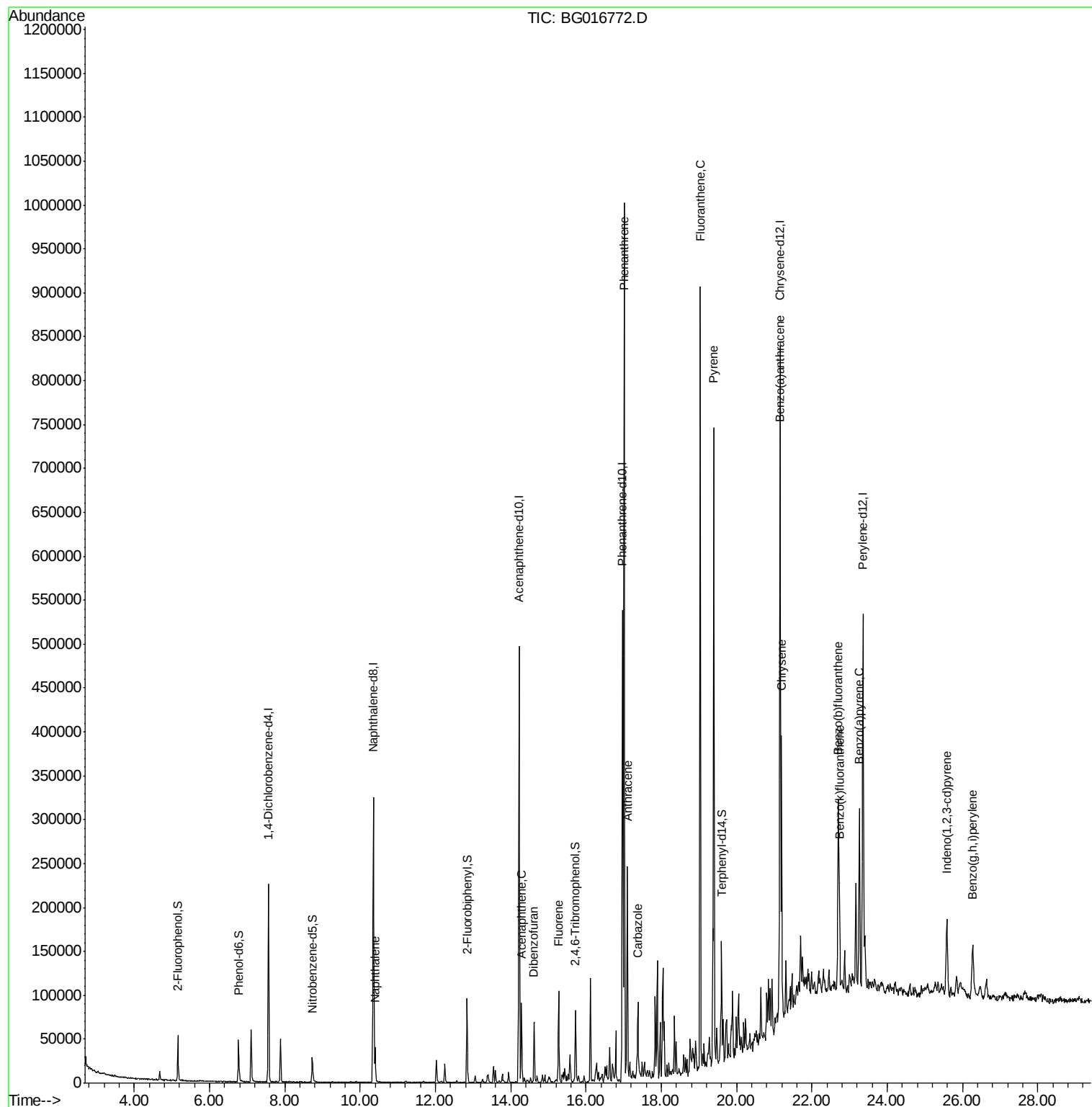
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	10.40	128	34194	2.20	ng	97
51) Acenaphthene	14.29	154	33617	3.24	ng	98
54) Dibenzofuran	14.63	168	46027	3.14	ng	96
57) Fluorene	15.27	166	44452	3.47	ng	92
70) Phenanthrene	17.01	178	544214	31.05	ng	99
71) Anthracene	17.10	178	145578	8.35	ng	98
72) Carbazole	17.38	167	54014	3.09	ng	98
74) Fluoranthene	19.03	202	468183	25.21	ng	97
77) Pyrene	19.40	202	394587	21.57	ng	98
80) Benzo(a)anthracene	21.14	228	180473	11.43	ng	98
82) Chrysene	21.20	228	147417	9.74	ng	98
85) Indeno(1,2,3-cd)pyrene	25.59	276	65379	3.96	ng	90
87) Benzo(b)fluoranthene	22.70	252	160807	10.65	ng	97
88) Benzo(k)fluoranthene	22.73	252	52435m	3.56	ng	
89) Benzo(a)pyrene	23.26	252	123233	8.66	ng	96
91) Benzo(g,h,i)perylene	26.27	276	60937	4.33	ng	98

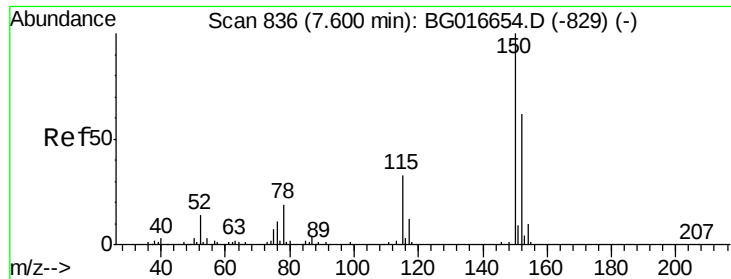
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.56 min Scan# 830

Delta R.T. -0.00 min

Lab File: BG016772.D

Acq: 28 Apr 2015 19:36

Instrument :

BNA_G

ClientSampleId :

SB-73SDL

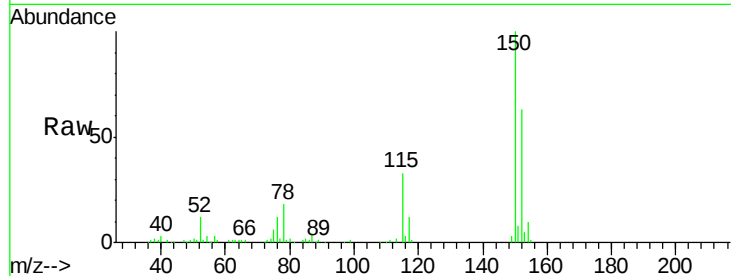
Tot Ion:152 Resp: 65971

Ion Ratio Lower Upper

152 100

150 158.7 129.6 194.4

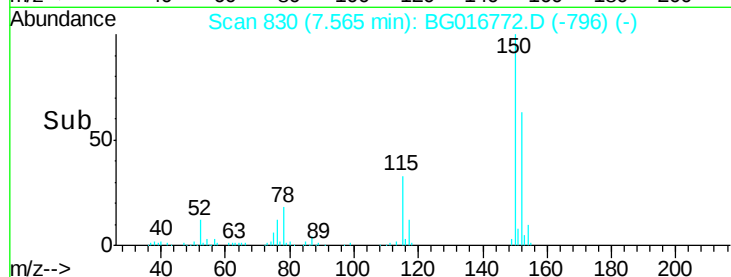
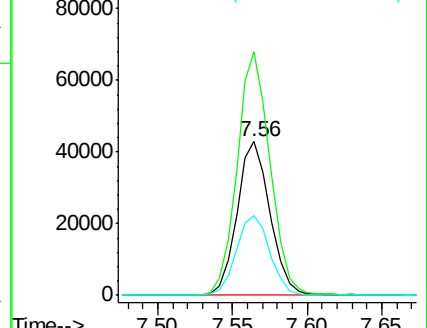
115 51.7 43.0 64.6



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: 7.10 ng

RT: 5.16 min Scan# 421

Delta R.T. 0.00 min

Lab File: BG016772.D

Acq: 28 Apr 2015 19:36

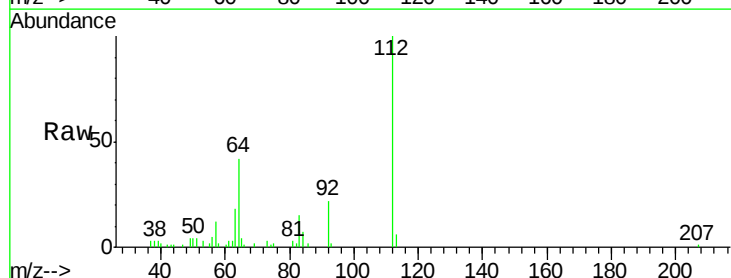
Tgt Ion:112 Resp: 28882

Ion Ratio Lower Upper

112 100

64 42.5 38.3 57.5

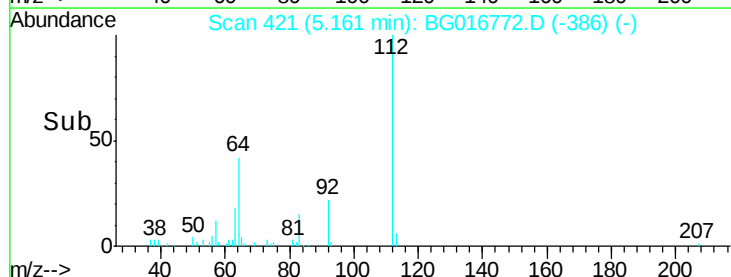
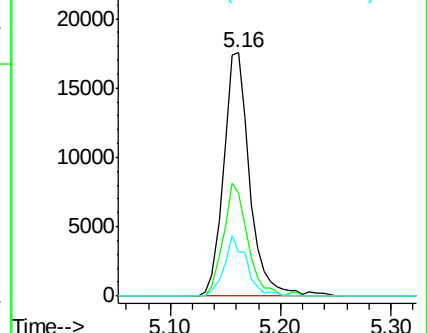
63 18.2 18.9 28.3#



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: 6.94 ng

RT: 6.77 min Scan# 694

Delta R.T. -0.01 min

Lab File: BG016772.D

Acq: 28 Apr 2015 19:36

Instrument :

BNA_G

ClientSampled :

SB-73SDL

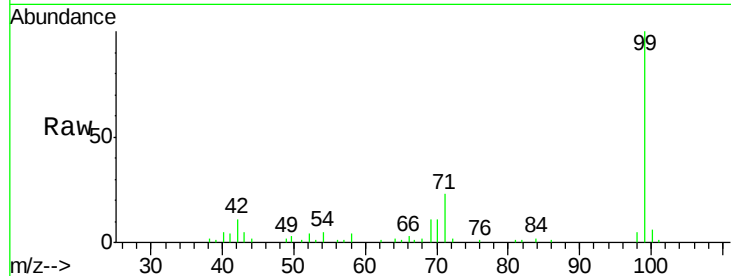
Tot Ion: 99 Resp: 39589

Ion Ratio Lower Upper

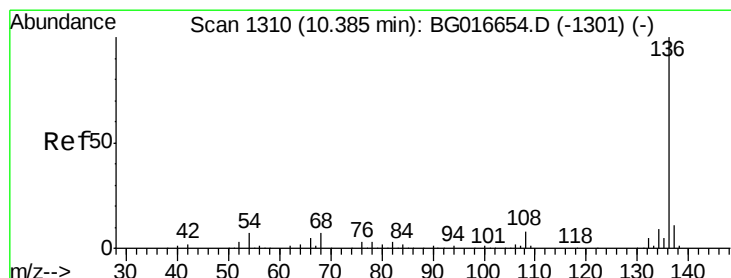
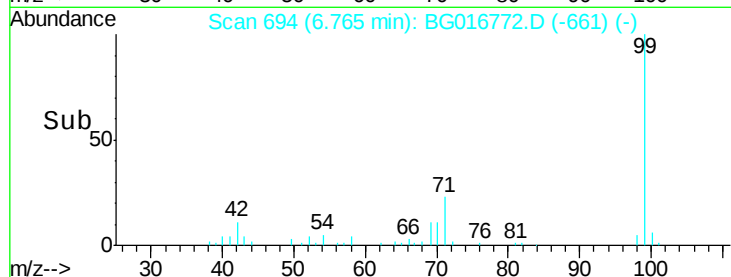
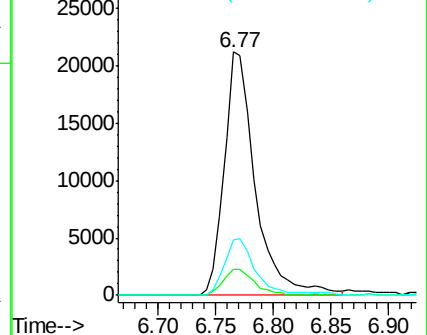
99 100

42 10.6 8.8 13.2

71 22.9 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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.35 min Scan# 1304

Delta R.T. -0.00 min

Lab File: BG016772.D

Acq: 28 Apr 2015 19:36

Tgt Ion: 136 Resp: 294311

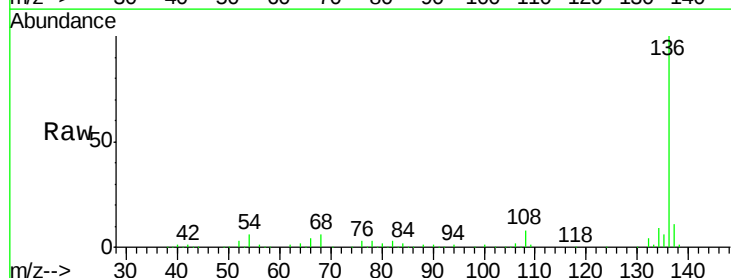
Ion Ratio Lower Upper

136 100

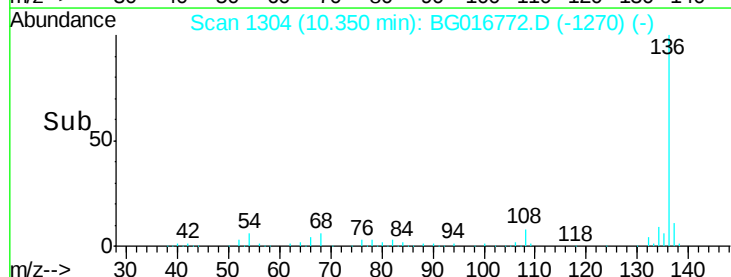
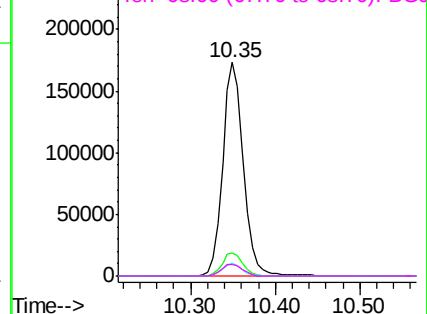
137 10.8 8.5 12.7

54 5.8 5.4 8.2

68 5.7 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

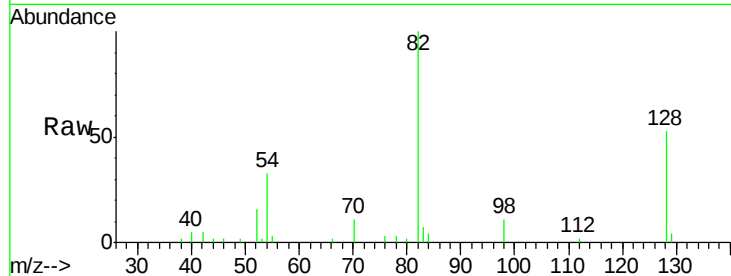




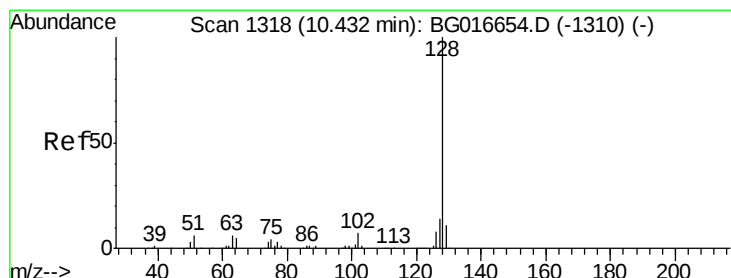
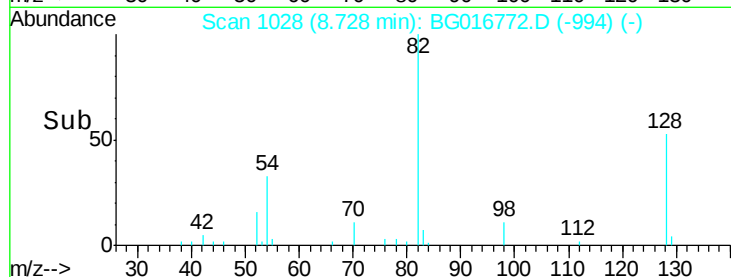
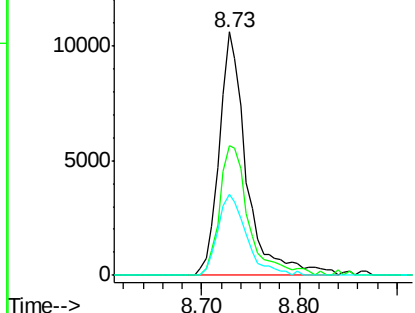
#23
 Nitrobenzene-d5
 Concen: 4.42 ng
 RT: 8.73 min Scan# 1028
 Delta R.T. -0.00 min
 Lab File: BG016772.D
 Acq: 28 Apr 2015 19:36

Instrument :
 BNA_G
 ClientSampleId :
 SB-73SDL

Tot Ion: 82 Resp: 20576
 Ion Ratio Lower Upper
 82 100
 128 53.5 44.7 67.1
 54 33.3 30.9 46.3

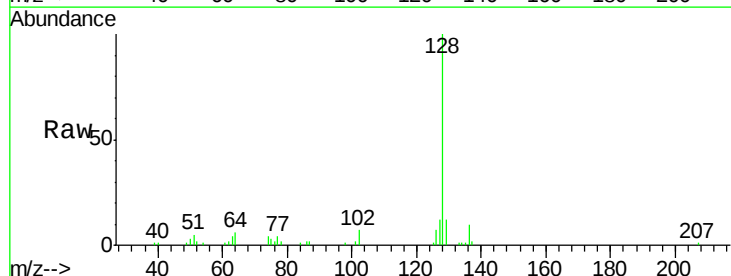


Abundance Ion 82.00 (81.70 to 82.70): BGC
 Ion 128.00 (127.70 to 128.70): BGC
 Ion 54.00 (53.70 to 54.70): BGC

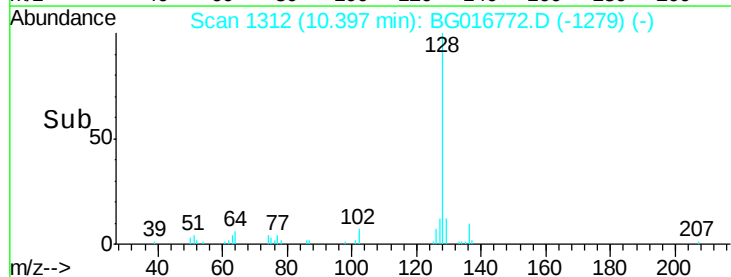
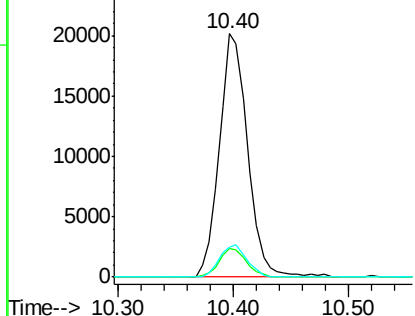


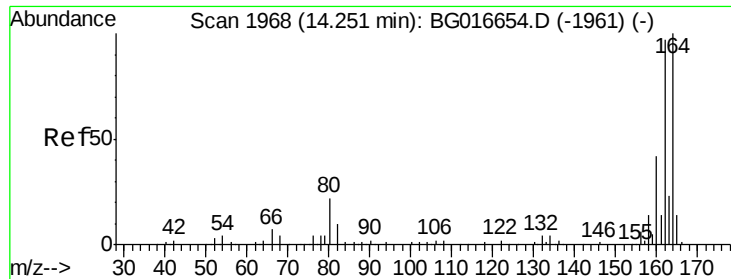
#31
 Naphthalene
 Concen: 2.20 ng
 RT: 10.40 min Scan# 1312
 Delta R.T. -0.01 min
 Lab File: BG016772.D
 Acq: 28 Apr 2015 19:36

Tgt Ion: 128 Resp: 34194
 Ion Ratio Lower Upper
 128 100
 129 11.7 9.0 13.6
 127 12.4 11.1 16.7



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: 14.22 min Scan# 1963

Delta R.T. -0.01 min

Lab File: BG016772.D

Acq: 28 Apr 2015 19:36

Instrument :

BNA_G

ClientSampleId :

SB-73SDL

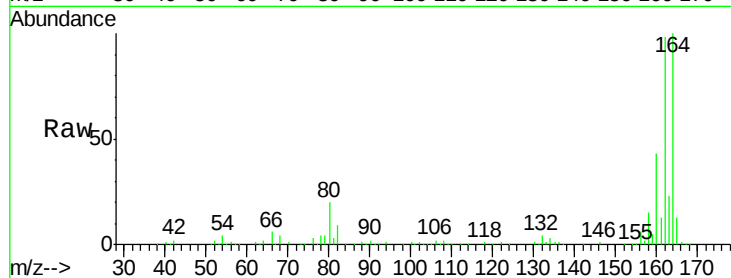
Tot Ion:164 Resp: 163549

Ion Ratio Lower Upper

164 100

162 97.9 77.3 115.9

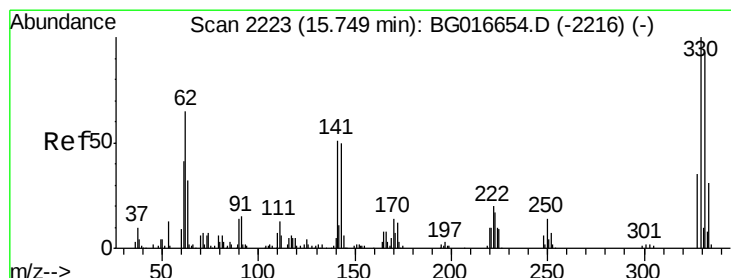
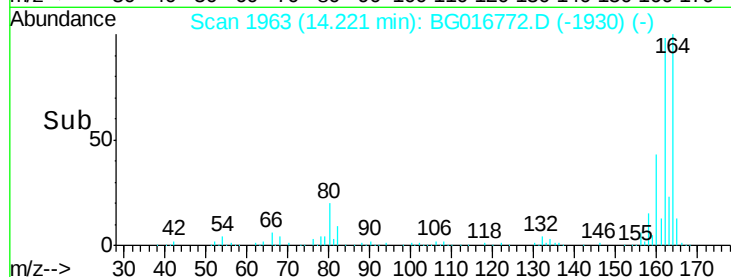
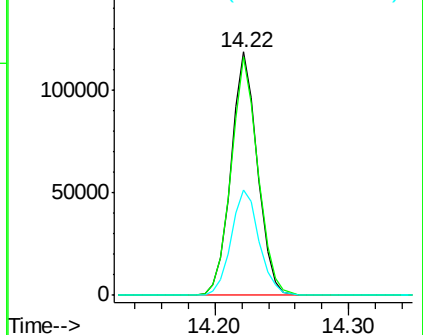
160 43.1 33.7 50.5



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: 6.52 ng

RT: 15.73 min Scan# 2219

Delta R.T. -0.00 min

Lab File: BG016772.D

Acq: 28 Apr 2015 19:36

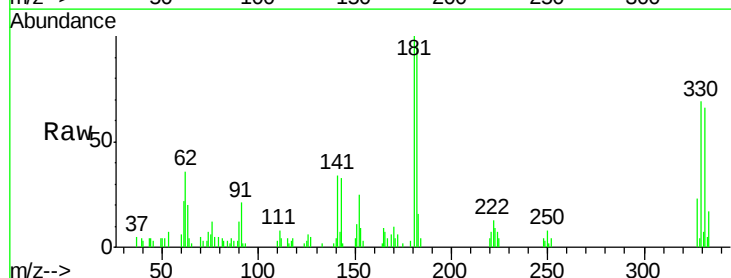
Tgt Ion:330 Resp: 7908

Ion Ratio Lower Upper

330 100

332 93.7 76.2 114.4

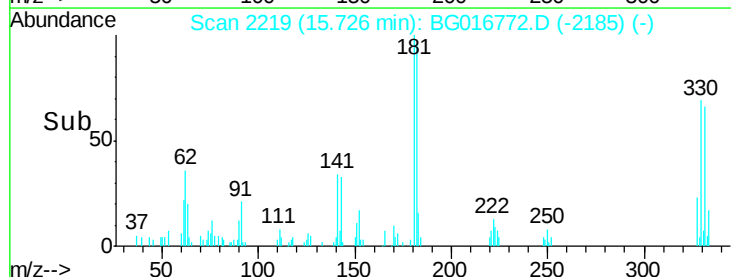
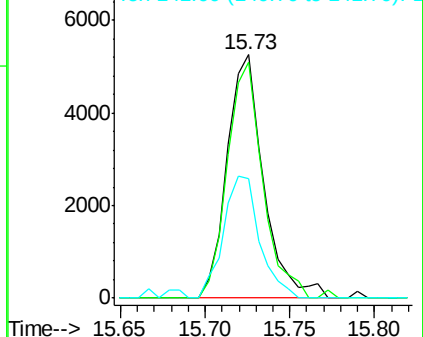
141 49.5 43.0 64.6

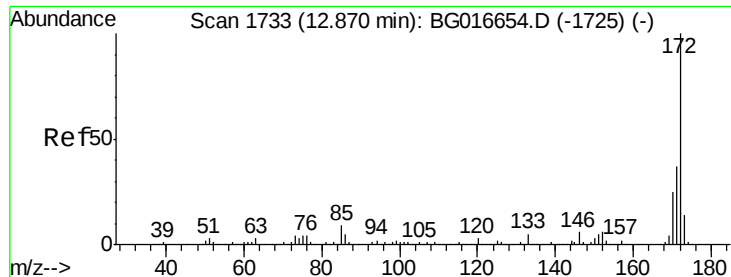


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

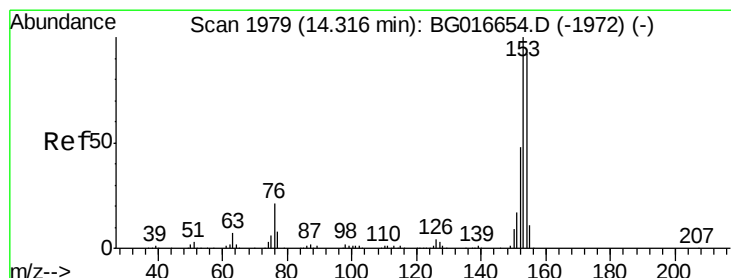
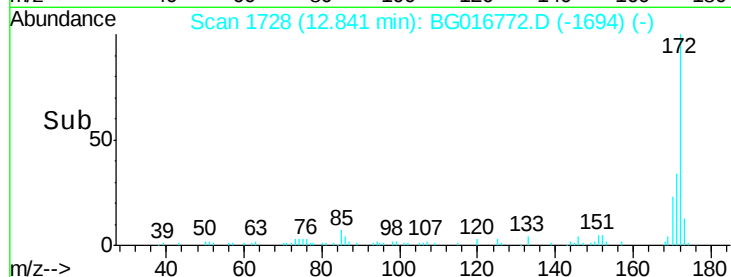
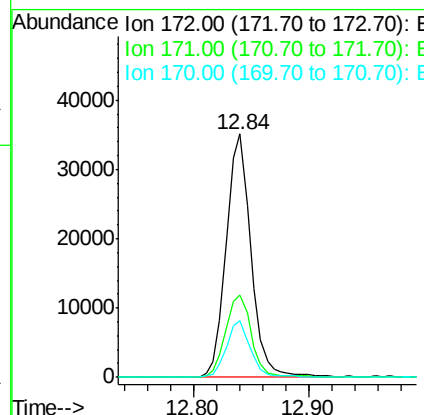
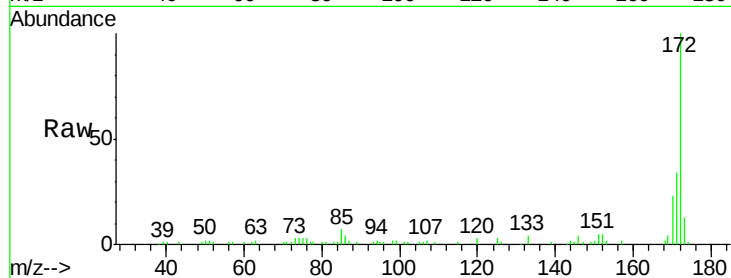




#44
 2-Fluorobiphenyl
 Concen: 5.14 ng
 RT: 12.84 min Scan# 1728
 Delta R.T. -0.00 min
 Lab File: BG016772.D
 Acq: 28 Apr 2015 19:36

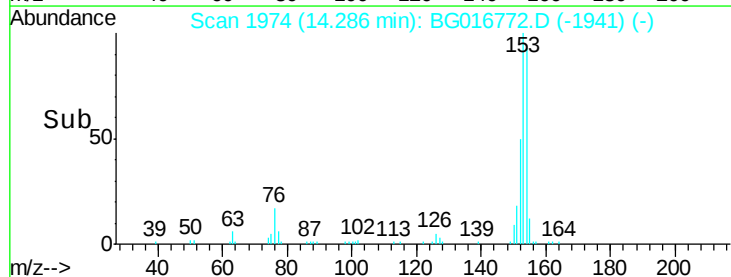
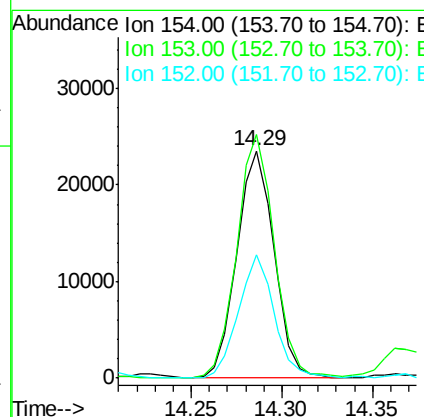
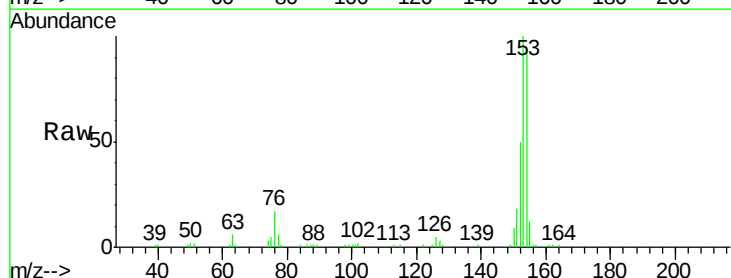
Instrument :
 BNA_G
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 SB-73SDL

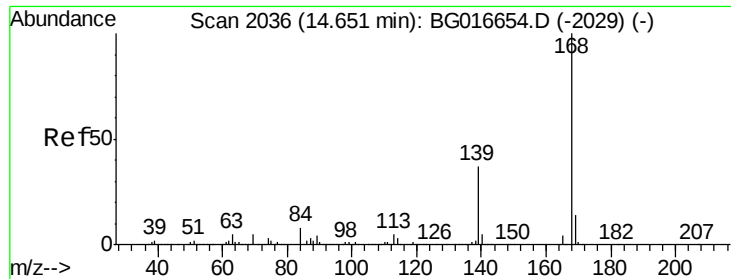
Tot Ion:172 Resp: 52300
 Ion Ratio Lower Upper
 172 100
 171 33.7 29.9 44.9
 170 23.1 19.8 29.8



#51
 Acenaphthene
 Concen: 3.24 ng
 RT: 14.29 min Scan# 1974
 Delta R.T. -0.01 min
 Lab File: BG016772.D
 Acq: 28 Apr 2015 19:36

Tgt Ion:154 Resp: 33617
 Ion Ratio Lower Upper
 154 100
 153 107.0 87.0 130.6
 152 53.9 41.6 62.4





#54

Dibenzenofuran

Concen: 3.14 ng

RT: 14.63 min Scan# 2032

Delta R.T. -0.00 min

Lab File: BG016772.D

Acq: 28 Apr 2015 19:36

Instrument :

BNA_G

ClientSampleId :

SB-73SDL

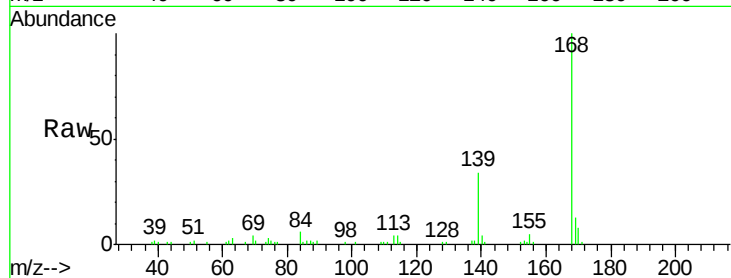
Tot Ion:168 Resp: 46027

Ion Ratio Lower Upper

168 100

139 34.5 29.8 44.8

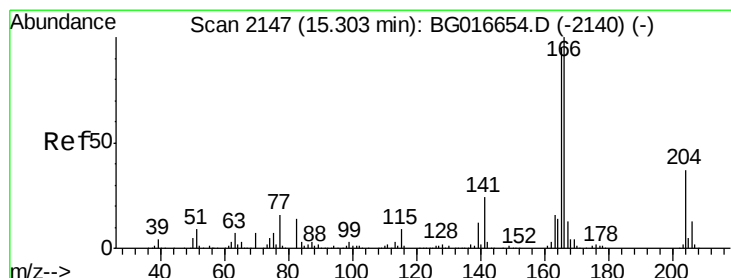
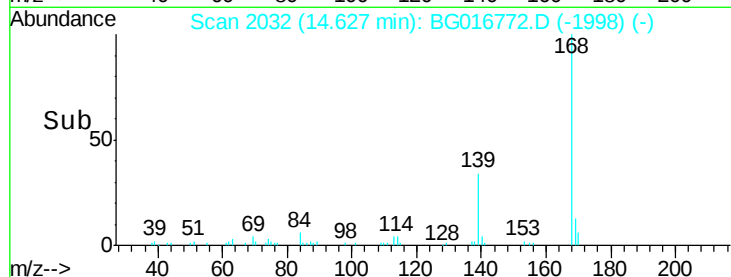
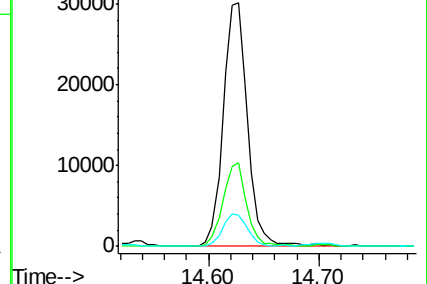
169 12.8 11.0 16.4



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



#57

Fluorene

Concen: 3.47 ng

RT: 15.27 min Scan# 2142

Delta R.T. -0.00 min

Lab File: BG016772.D

Acq: 28 Apr 2015 19:36

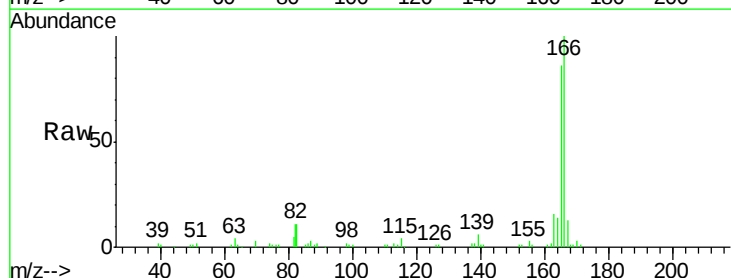
Tgt Ion:166 Resp: 44452

Ion Ratio Lower Upper

166 100

165 85.8 75.6 113.4

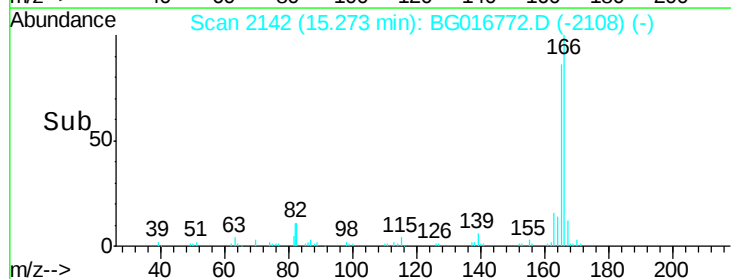
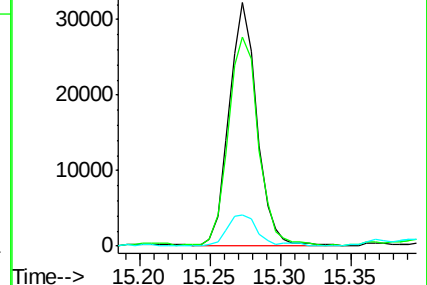
167 12.8 10.7 16.1

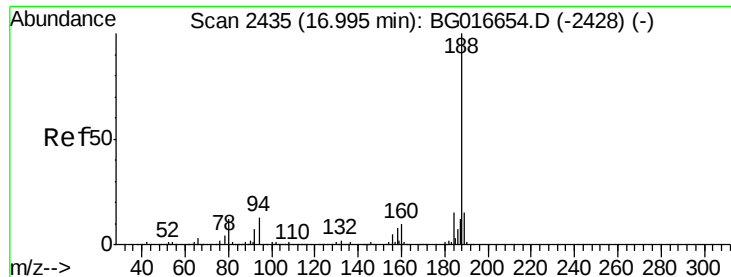


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

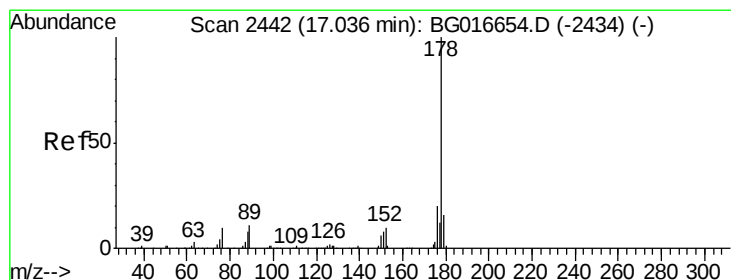
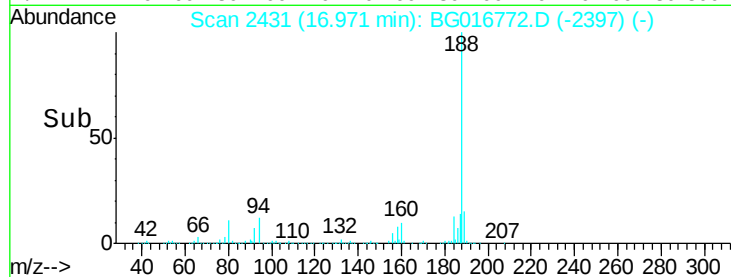
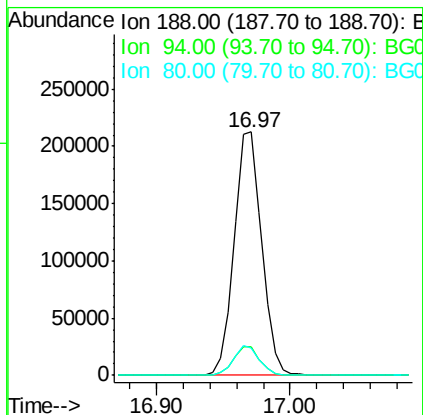
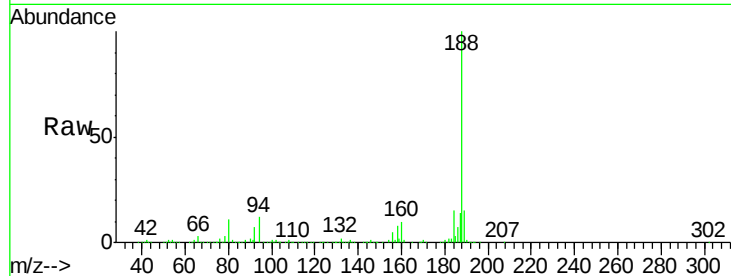




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 16.97 min Scan# 2431
Delta R.T. -0.00 min
Lab File: BG016772.D
Acq: 28 Apr 2015 19:36

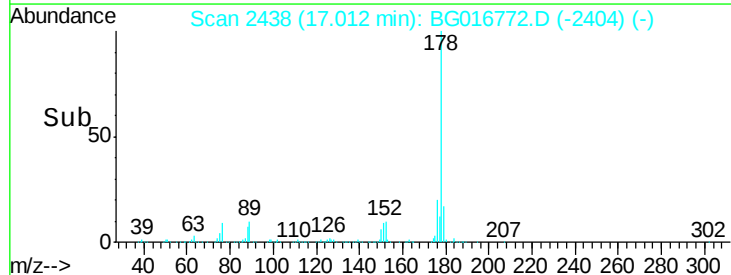
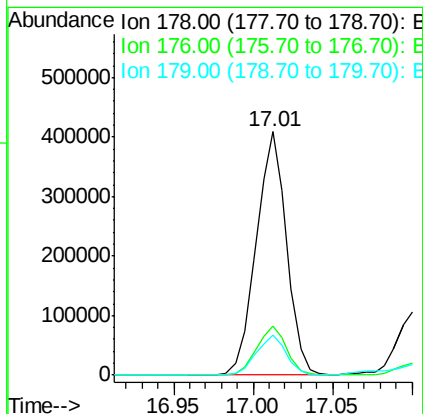
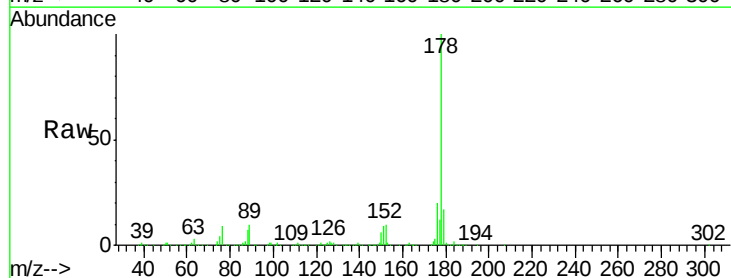
Instrument :
BNA_G
ClientSampled :
SB-73SDL

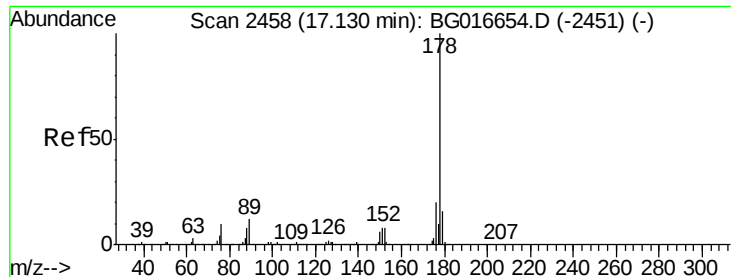
Tot Ion:188 Resp: 305071
Ion Ratio Lower Upper
188 100
94 11.8 10.7 16.1
80 11.1 9.9 14.9



#70
Phenanthrene
Concen: 31.05 ng
RT: 17.01 min Scan# 2438
Delta R.T. -0.00 min
Lab File: BG016772.D
Acq: 28 Apr 2015 19:36

Tgt Ion:178 Resp: 544214
Ion Ratio Lower Upper
178 100
176 19.9 15.8 23.6
179 16.7 12.8 19.2

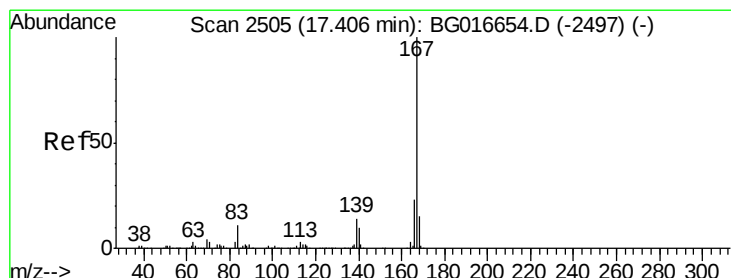
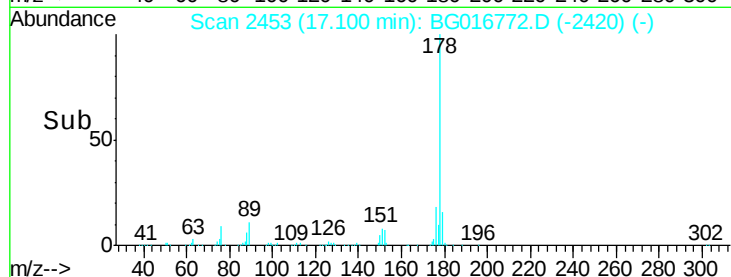
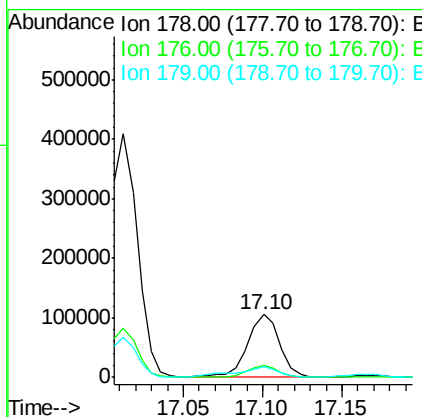
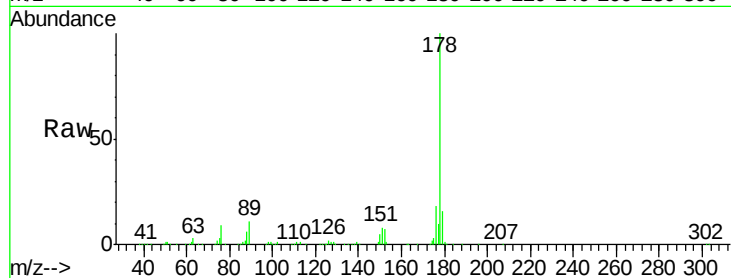




#71
 Anthracene
 Concen: 8.35 ng
 RT: 17.10 min Scan# 2453
 Delta R.T. -0.01 min
 Lab File: BG016772.D
 Acq: 28 Apr 2015 19:36

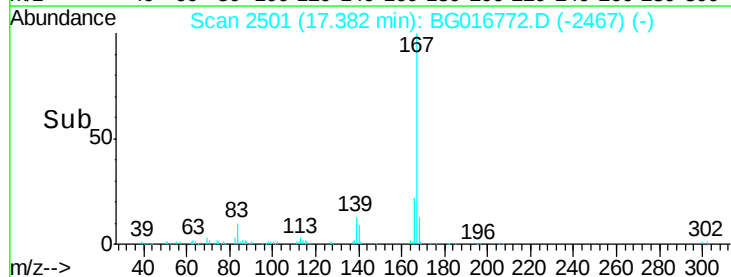
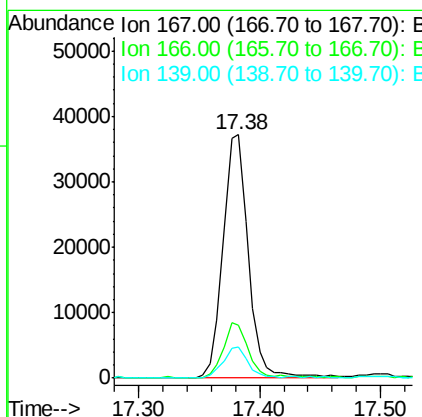
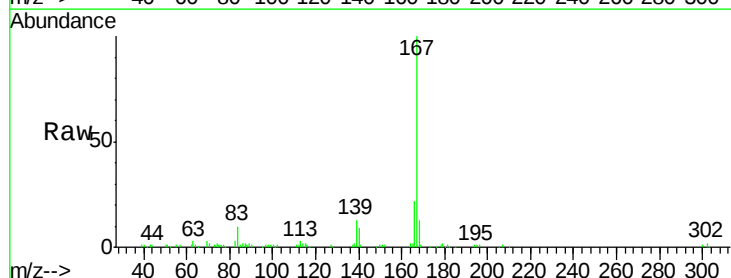
Instrument :
 BNA_G
 ClientSampleId :
 SB-73SDL

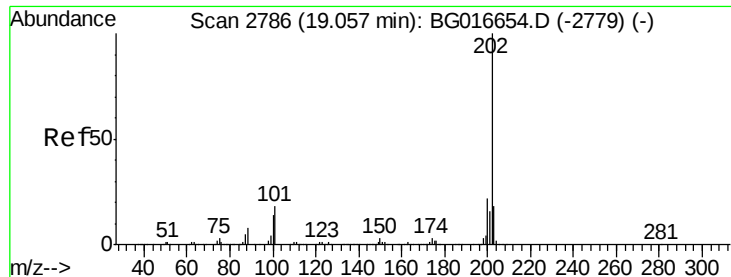
Tot Ion:178 Resp: 145578
 Ion Ratio Lower Upper
 178 100
 176 18.2 16.0 24.0
 179 16.3 12.9 19.3



#72
 Carbazole
 Concen: 3.09 ng
 RT: 17.38 min Scan# 2501
 Delta R.T. -0.00 min
 Lab File: BG016772.D
 Acq: 28 Apr 2015 19:36

Tgt Ion:167 Resp: 54014
 Ion Ratio Lower Upper
 167 100
 166 21.9 18.4 27.6
 139 12.7 11.1 16.7





#74

Fluoranthene

Concen: 25.21 ng

RT: 19.03 min Scan# 2782

Delta R.T. -0.00 min

Lab File: BG016772.D

Acq: 28 Apr 2015 19:36

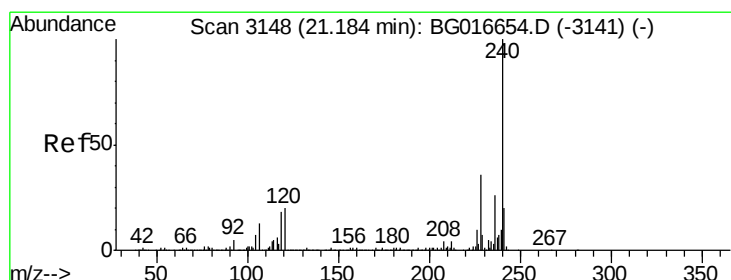
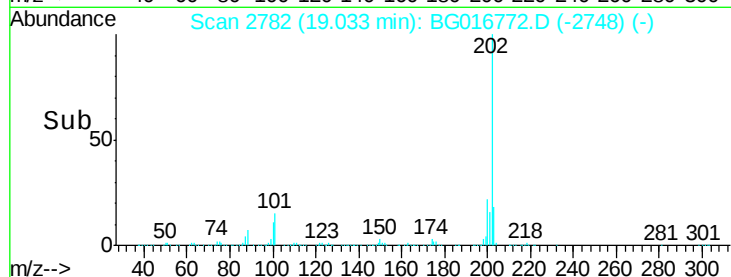
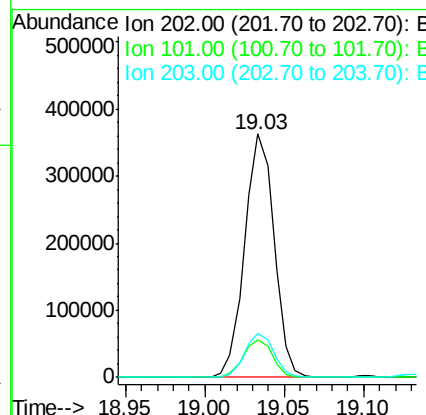
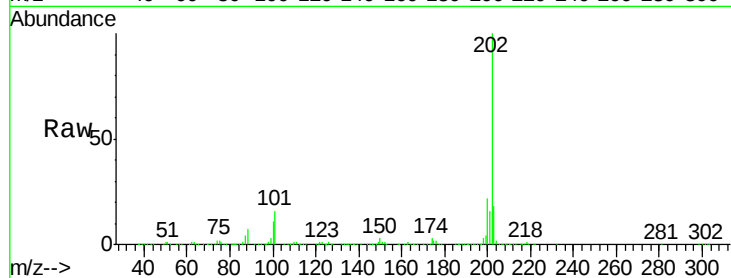
Instrument :

BNA_G

ClientSampleId :

SB-73SDL

Tot Ion:	202	Resp:	468183
Ion	Ratio	Lower	Upper
202	100		
101	15.6	0.0	38.1
203	18.0	0.0	38.4



#75

Chrysene-d12

Concen: 20.00 ng

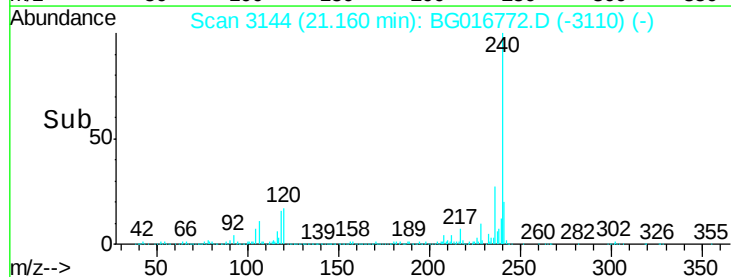
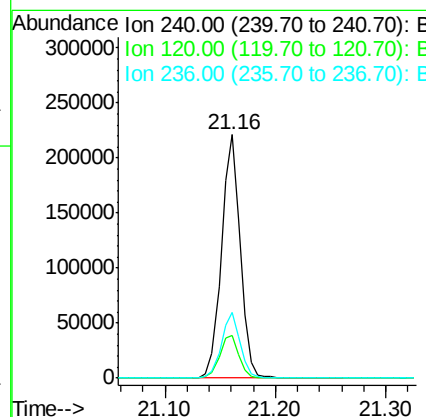
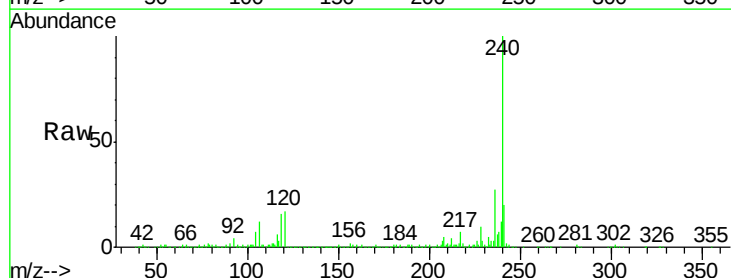
RT: 21.16 min Scan# 3144

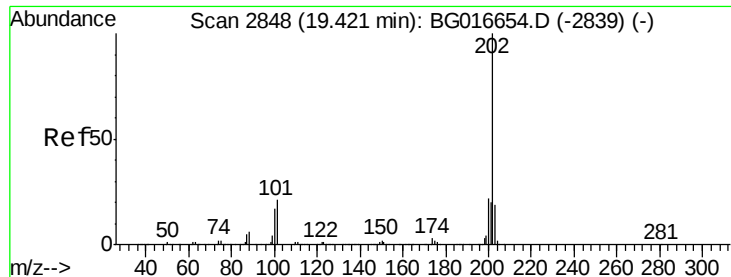
Delta R.T. -0.00 min

Lab File: BG016772.D

Acq: 28 Apr 2015 19:36

Tgt Ion:	240	Resp:	260407
Ion	Ratio	Lower	Upper
240	100		
120	17.4	16.3	24.5
236	26.9	21.1	31.7





#77

Pvrene

Concen: 21.57 ng

RT: 19.40 min Scan# 2844

Delta R.T. -0.00 min

Lab File: BG016772.D

Acq: 28 Apr 2015 19:36

Instrument :

BNA_G

ClientSampleId :

SB-73SDL

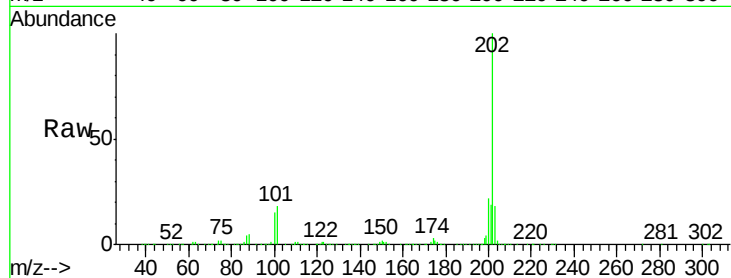
Tot Ion:202 Resp: 394587

Ion Ratio Lower Upper

202 100

200 21.6 18.0 27.0

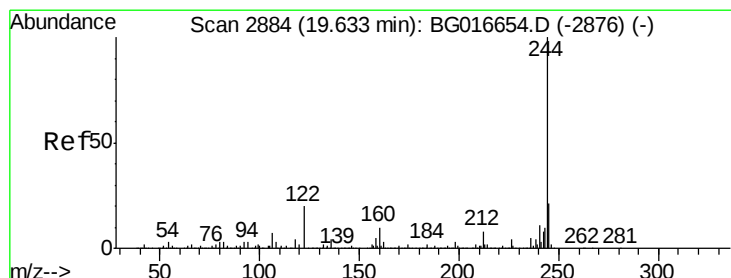
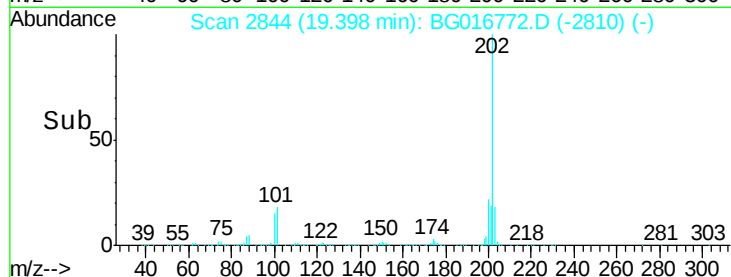
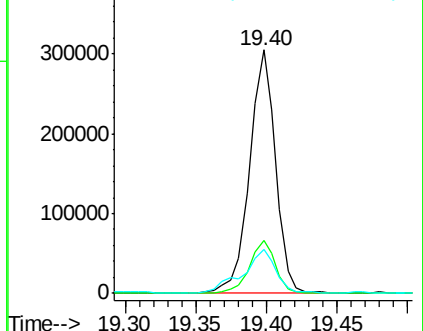
203 18.1 14.9 22.3



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: 4.70 ng

RT: 19.60 min Scan# 2879

Delta R.T. -0.01 min

Lab File: BG016772.D

Acq: 28 Apr 2015 19:36

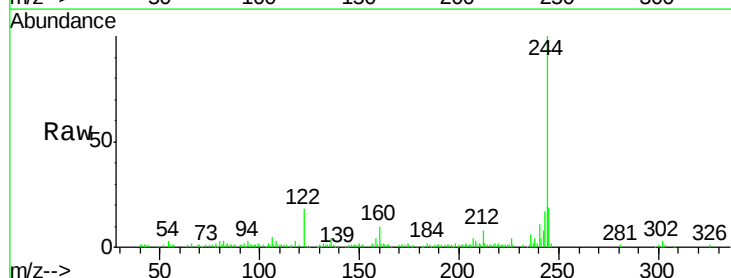
Tgt Ion:244 Resp: 53087

Ion Ratio Lower Upper

244 100

212 8.3 6.4 9.6

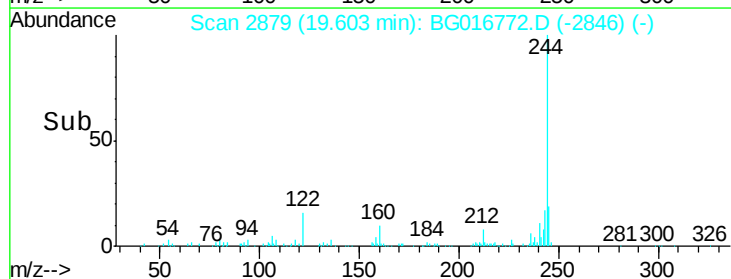
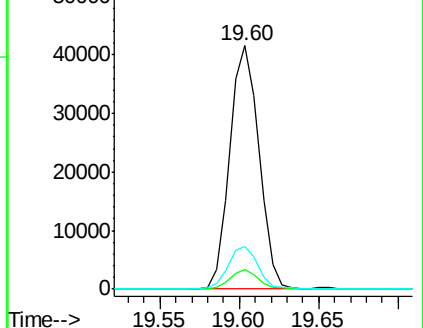
122 17.6 15.9 23.9

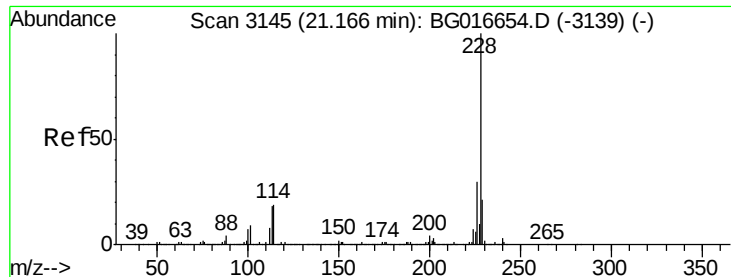


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

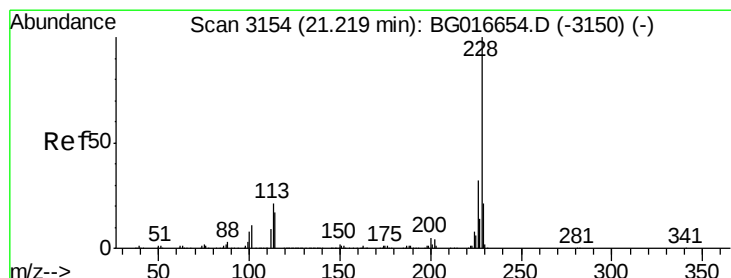
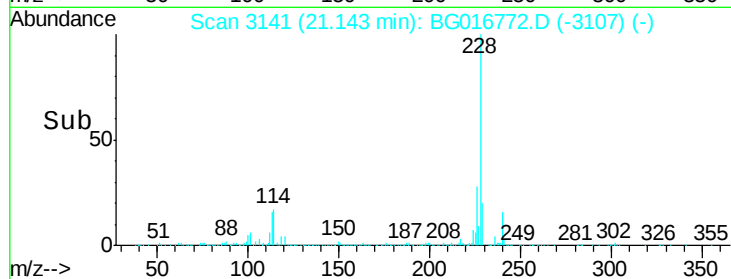
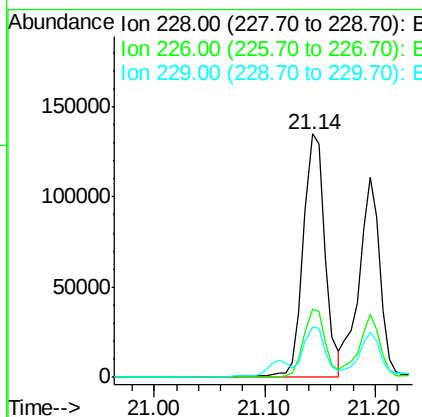
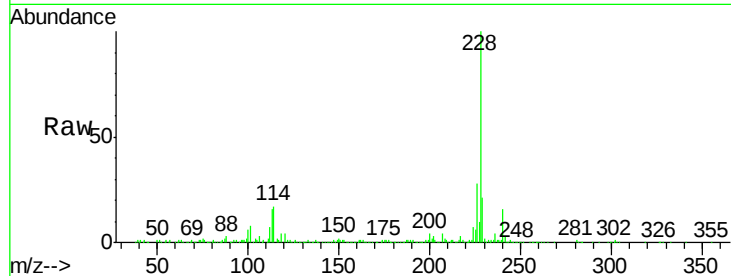




#80
Benzo(a)anthracene
Concen: 11.43 ng
RT: 21.14 min Scan# 3141
Delta R.T. -0.00 min
Lab File: BG016772.D
Acq: 28 Apr 2015 19:36

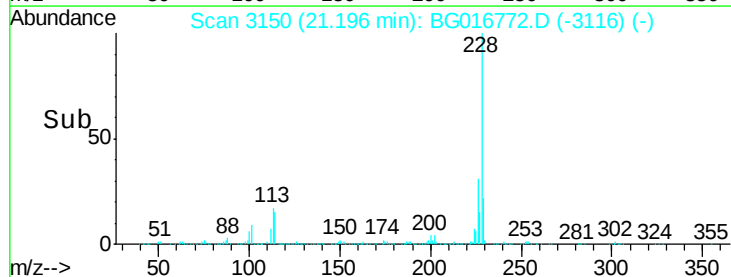
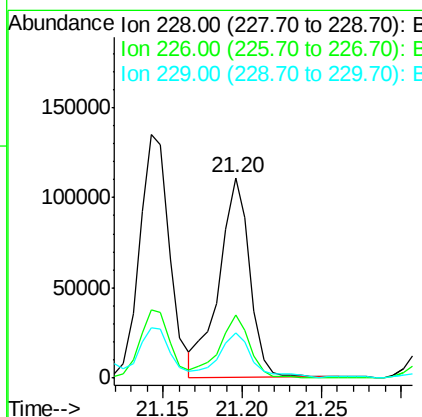
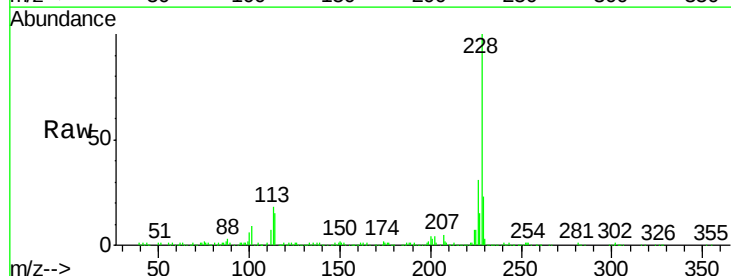
Instrument :
BNA_G
ClientSampleId :
SB-73SDL

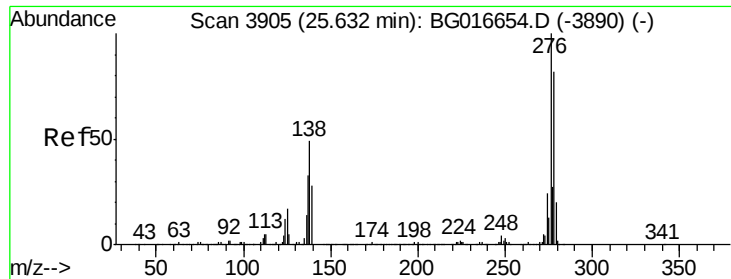
Tot Ion:228 Resp: 180473
Ion Ratio Lower Upper
228 100
226 28.2 23.8 35.6
229 20.7 17.0 25.4



#82
Chrysene
Concen: 9.74 ng
RT: 21.20 min Scan# 3150
Delta R.T. -0.00 min
Lab File: BG016772.D
Acq: 28 Apr 2015 19:36

Tgt Ion:228 Resp: 147417
Ion Ratio Lower Upper
228 100
226 31.5 25.4 38.0
229 22.8 16.5 24.7

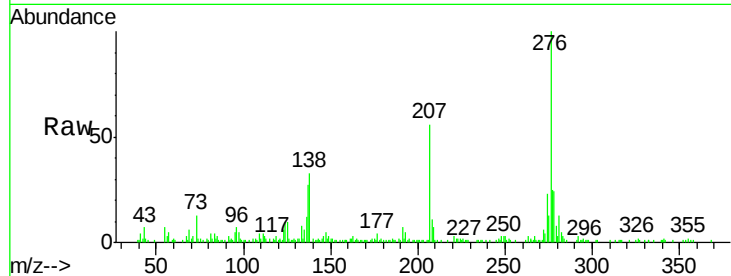




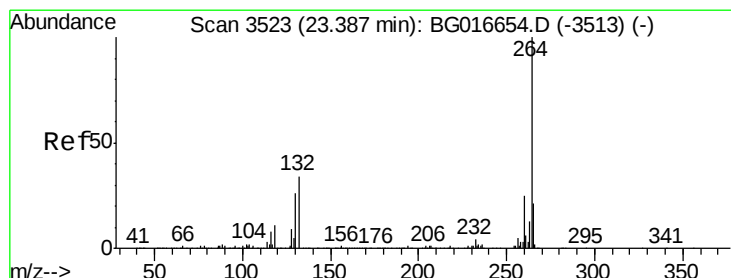
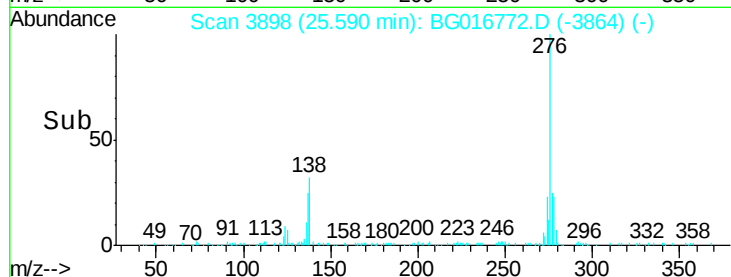
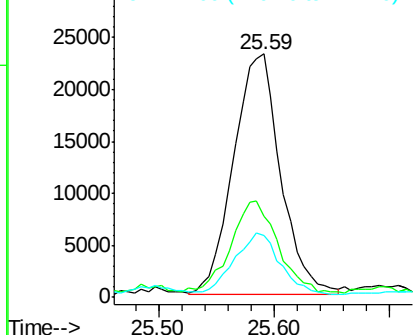
#85
Indeno(1,2,3-cd)pyrene
Concen: 3.96 ng
RT: 25.59 min Scan# 3898
Delta R.T. -0.00 min
Lab File: BG016772.D
Acq: 28 Apr 2015 19:36

Instrument :
BNA_G
ClientSampleId :
SB-73SDL

Tot Ion	Ratio	Lower	Upper
276	100		
138	38.6	38.2	57.2
277	24.9	21.4	32.2

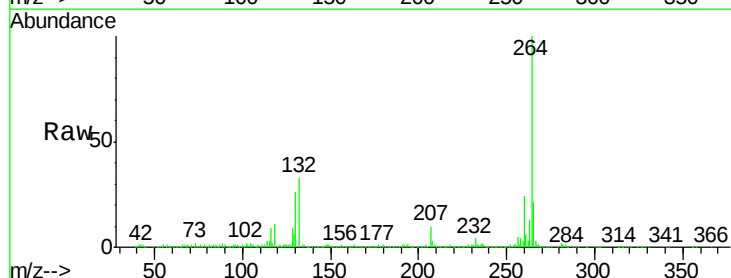


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

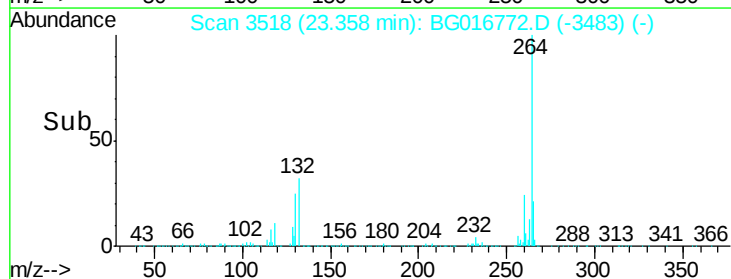
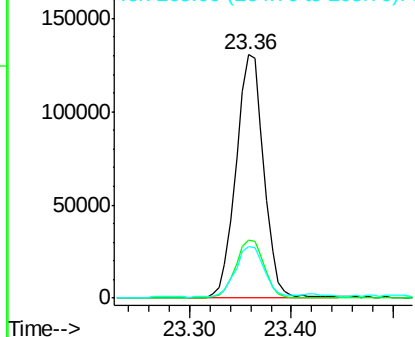


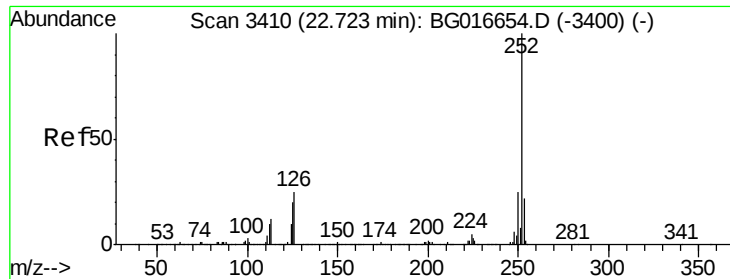
#86
Perylene-d12
Concen: 20.00 ng
RT: 23.36 min Scan# 3518
Delta R.T. 0.00 min
Lab File: BG016772.D
Acq: 28 Apr 2015 19:36

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	20.0	30.0
265	21.2	16.8	25.2



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 10.65 ng

RT: 22.70 min Scan# 3406

Delta R.T. -0.00 min

Lab File: BG016772.D

Acq: 28 Apr 2015 19:36

Instrument :

BNA_G

ClientSampleId :

SB-73SDL

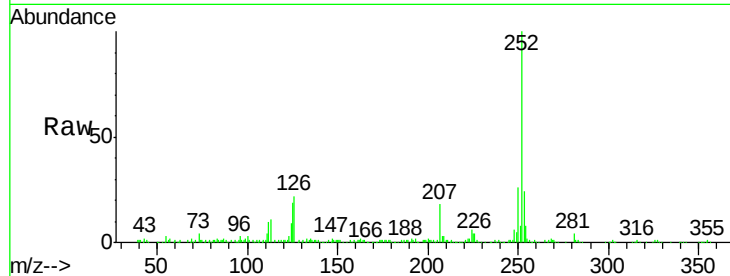
Tot Ion:252 Resp: 160807

Ion Ratio Lower Upper

252 100

253 24.2 17.9 26.9

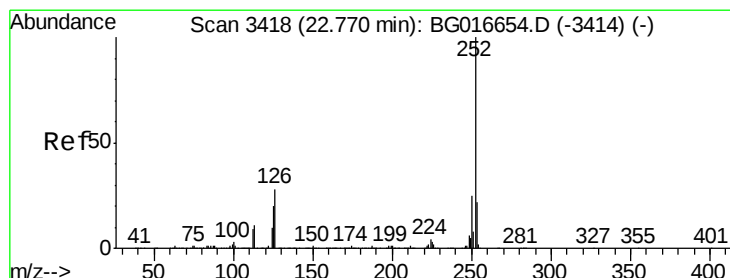
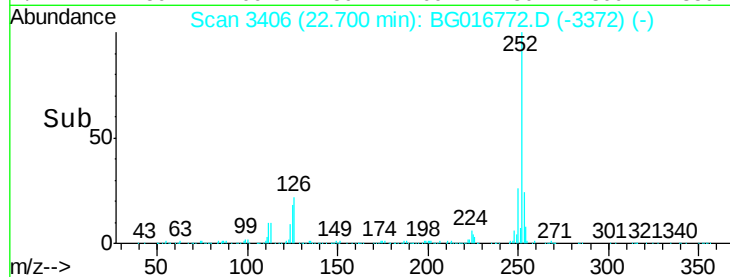
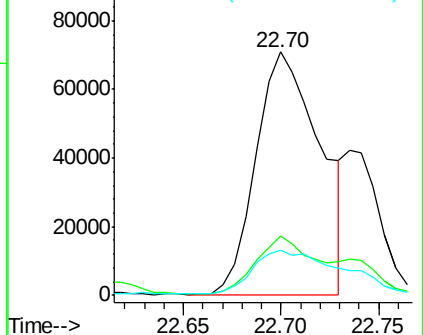
125 18.7 15.8 23.8



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 3.56 ng m

RT: 22.73 min Scan# 3412

Delta R.T. -0.01 min

Lab File: BG016772.D

Acq: 28 Apr 2015 19:36

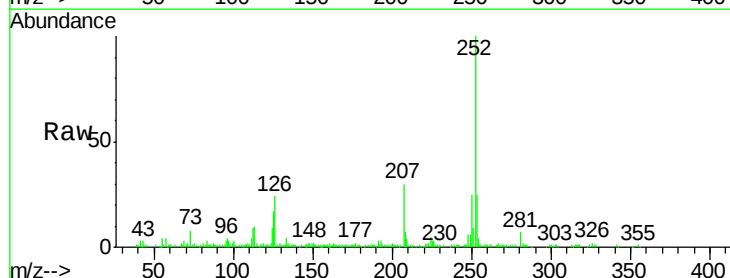
Tgt Ion:252 Resp: 52435

Ion Ratio Lower Upper

252 100

253 24.6 17.6 26.4

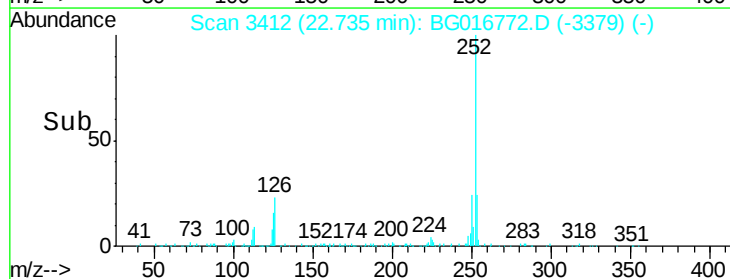
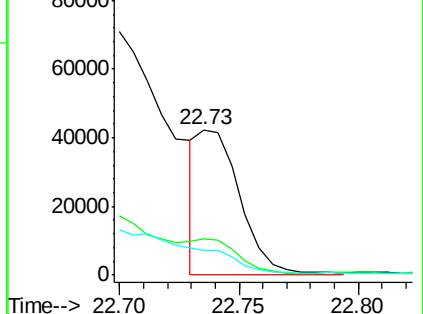
125 17.5 15.5 23.3

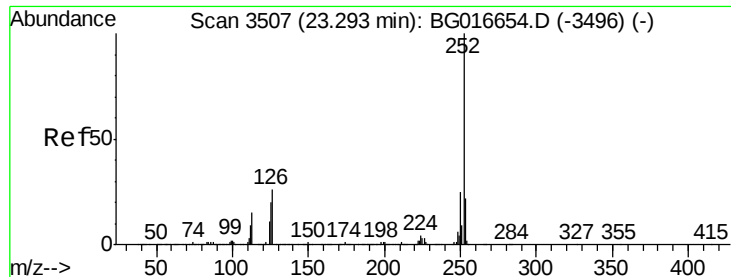


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 8.66 ng

RT: 23.26 min Scan# 3502

Delta R.T. -0.00 min

Lab File: BG016772.D

Acq: 28 Apr 2015 19:36

Instrument :

BNA_G

ClientSampleId :

SB-73SDL

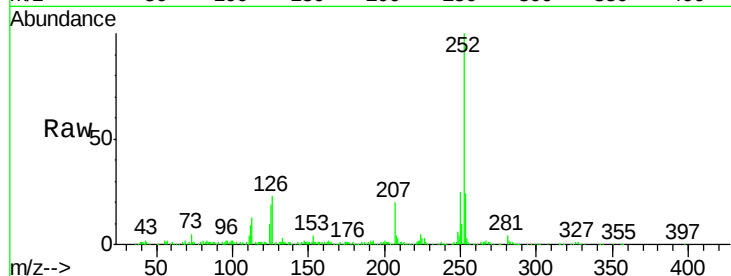
Tot Ion:252 Resp: 123233

Ion Ratio Lower Upper

252 100

253 23.7 17.2 25.8

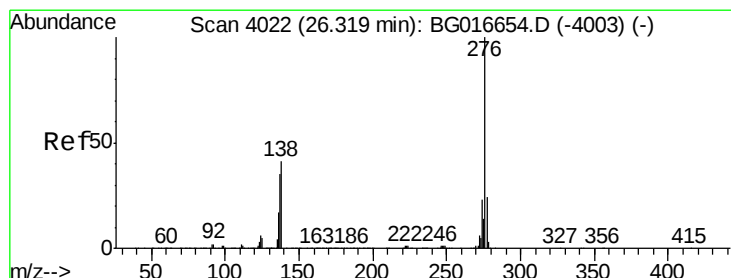
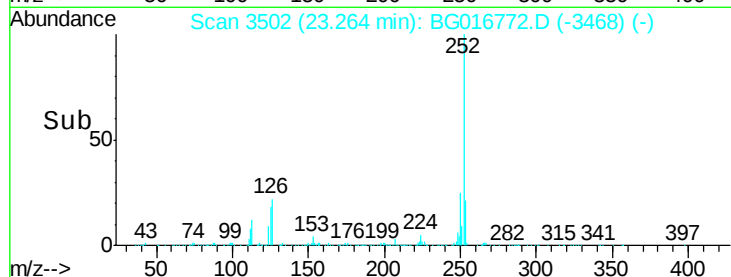
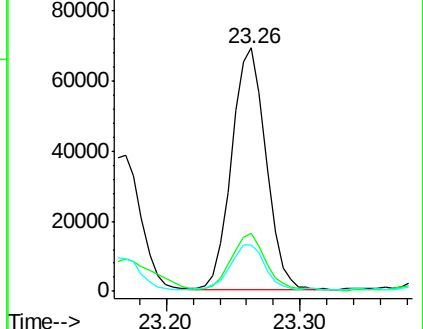
125 19.0 16.3 24.5



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: 4.33 ng

RT: 26.27 min Scan# 4013

Delta R.T. -0.01 min

Lab File: BG016772.D

Acq: 28 Apr 2015 19:36

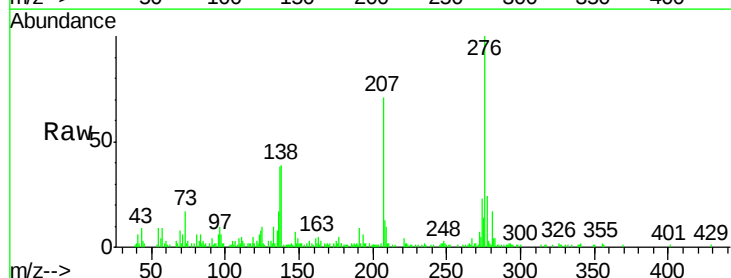
Tgt Ion:276 Resp: 60937

Ion Ratio Lower Upper

276 100

277 24.2 19.3 28.9

138 38.8 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

