

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060815\
 Data File : BG017564.D
 Acq On : 9 Jun 2015 7:47
 Operator : TP/IZ
 Sample : G2450-16 2X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 RT440NB6.2(2)

Quant Time: Jun 09 09:03:21 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 08 18:39:50 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.60	152	21406	20.00	ng	0.00
21) Naphthalene-d8	10.40	136	91027	20.00	ng	0.00
38) Acenaphthene-d10	14.27	164	57402	20.00	ng	-0.02
63) Phenanthrene-d10	17.03	188	116855	20.00	ng	-0.02
75) Chrysene-d12	21.22	240	135252	20.00	ng	-0.02
86) Perylene-d12	23.46	264	139298	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.20	112	55082	45.33	ng	0.00
7) Phenol-d6	6.81	99	72937	44.06	ng	0.00
23) Nitrobenzene-d5	8.77	82	55230	30.29	ng	0.00
41) 2,4,6-Tribromophenol	15.77	330	28947	36.31	ng	0.00
44) 2-Fluorobiphenyl	12.88	172	114297	30.04	ng	-0.02
78) Terphenyl-d14	19.66	244	155660	23.79	ng	-0.02

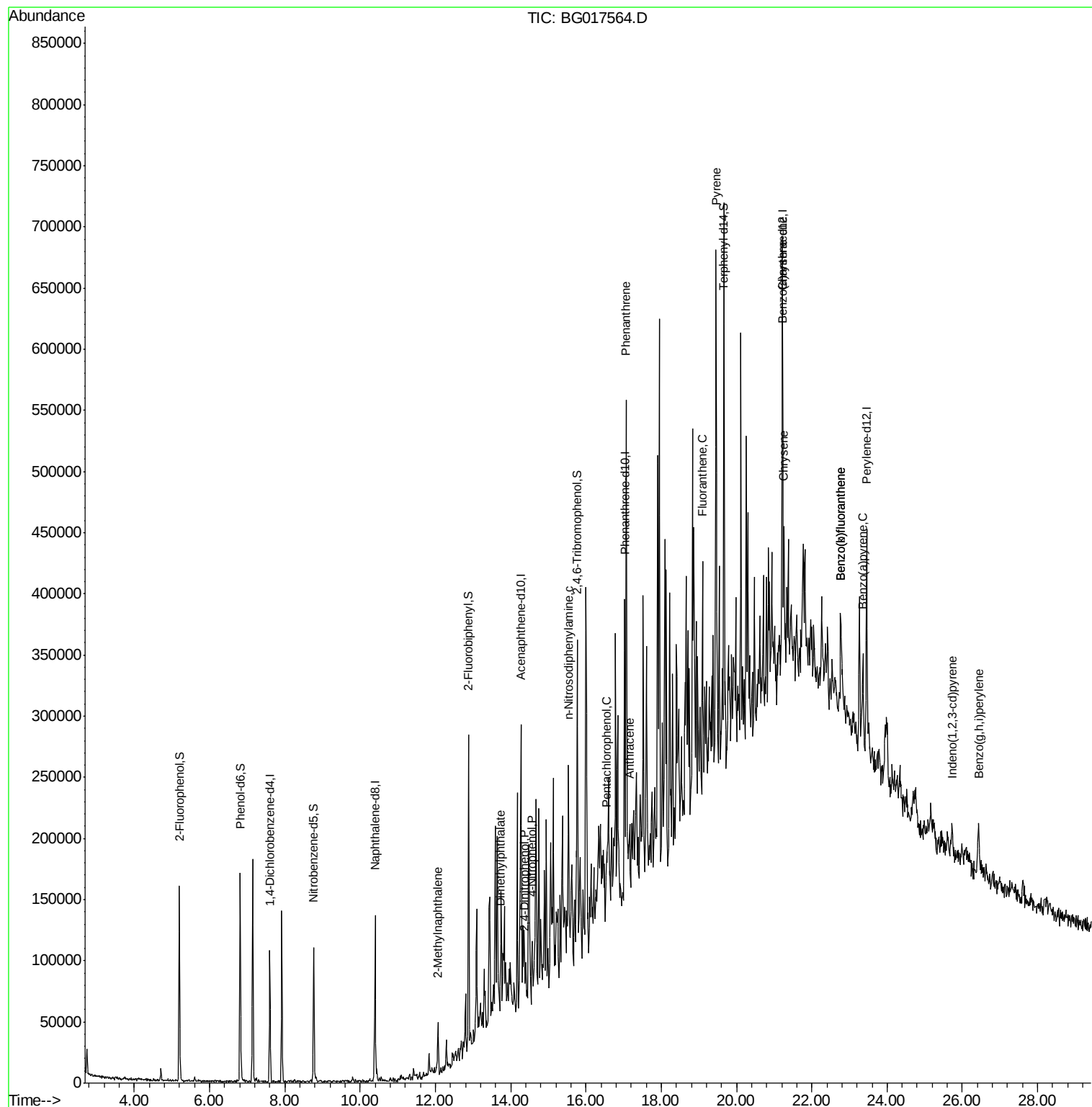
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
37) 2-Methylnaphthalene	12.07	142	17030	4.66	ng	# 88
49) Dimethylphthalate	13.73	163	10843	2.17	ng	# 93
53) 2,4-Dinitrophenol	14.38	184	79	7.12	ng	# 45
55) 4-Nitrophenol	14.56	139	2087	2.92	ng	# 46
65) n-Nitrosodiphenylamine	15.54	169	14300	4.10	ng	# 40
69) Pentachlorophenol	16.55	266	53	5.56	ng	# 22
70) Phenanthrene	17.07	178	215998	33.15	ng	100
71) Anthracene	17.16	178	24678	3.79	ng	97
74) Fluoranthene	19.09	202	60532	7.10	ng	95
77) Pyrene	19.46	202	234163	28.10	ng	98
80) Benzo(a)anthracene	21.21	228	51878	6.24	ng	# 79
82) Chrysene	21.26	228	72832	9.67	ng	# 86
85) Indeno(1,2,3-cd)pyrene	25.73	276	19123	2.02	ng	# 84
87) Benzo(b)fluoranthene	22.78	252	54838	6.21	ng	# 87
88) Benzo(k)fluoranthene	22.78	252	56285	6.66	ng	# 89
89) Benzo(a)pyrene	23.35	252	50825	6.28	ng	93
91) Benzo(g,h,i)perylene	26.43	276	51512	6.43	ng	# 89

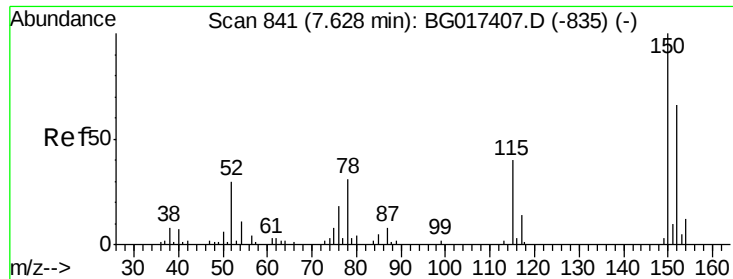
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 09 09:03:21 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 08 18:39:50 2015
Response via : Initial Calibration

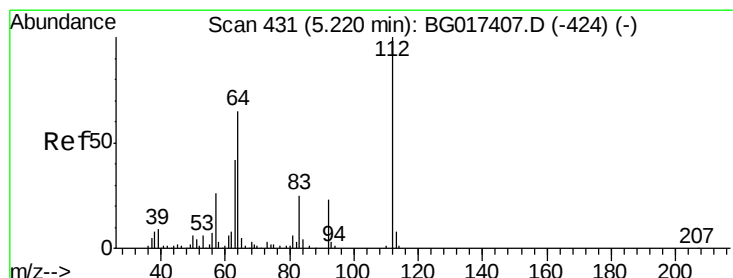
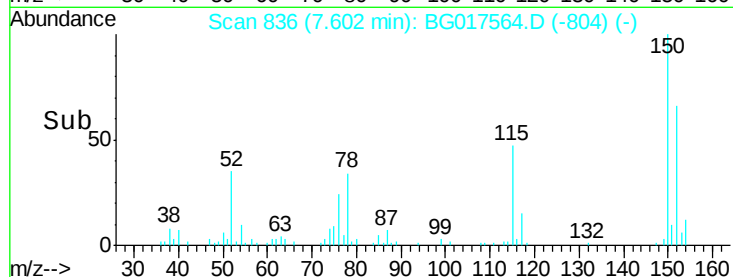
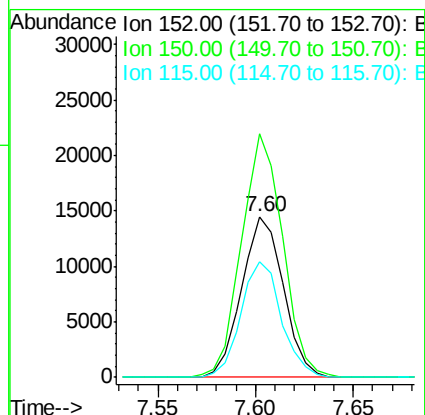
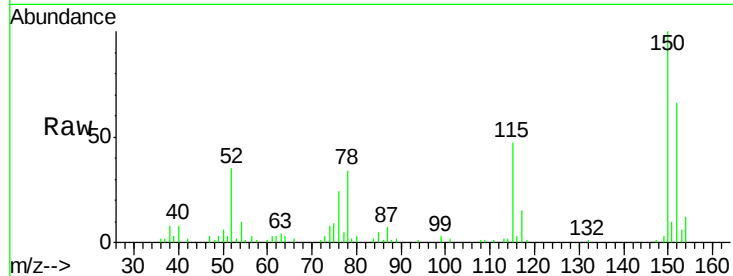




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.60 min Scan# 836
 Delta R.T. -0.01 min
 Lab File: BG017564.D
 Acq: 9 Jun 2015 7:47

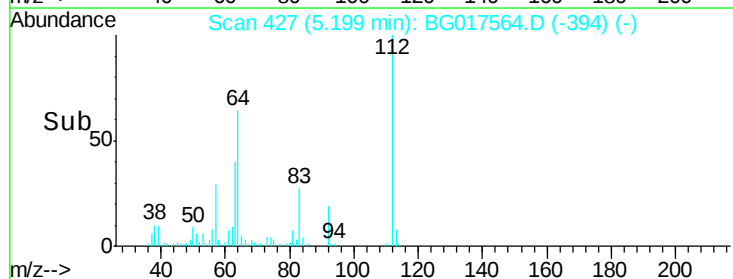
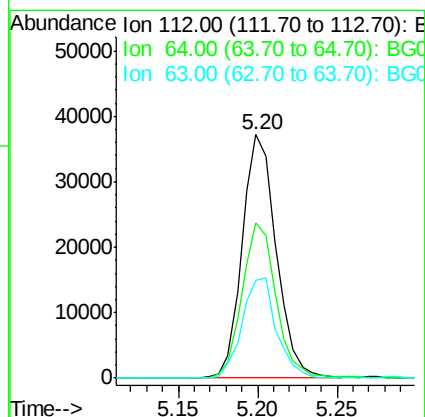
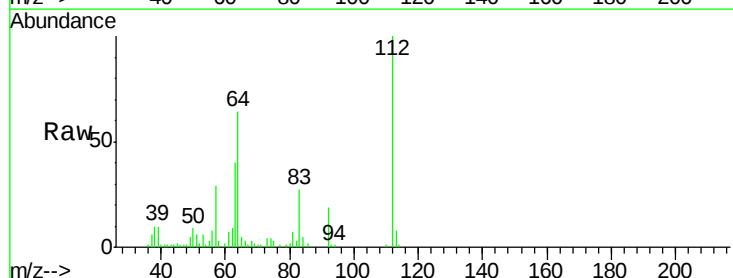
Instrument :
 BNA_G
 ClientSampleId :
 RT440NB6.2(2)

Tgt Ion:152 Resp: 21406
 Ion Ratio Lower Upper
 152 100
 150 151.7 121.7 182.5
 115 72.0 48.6 73.0



#5
 2-Fluorophenol
 Concen: 45.33 ng
 RT: 5.20 min Scan# 427
 Delta R.T. -0.00 min
 Lab File: BG017564.D
 Acq: 9 Jun 2015 7:47

Tgt Ion:112 Resp: 55082
 Ion Ratio Lower Upper
 112 100
 64 63.7 51.6 77.4
 63 40.3 33.3 49.9





#7

Phenol-d6

Concen: 44.06 ng

RT: 6.81 min Scan# 702

Delta R.T. -0.00 min

Lab File: BG017564.D

Acq: 9 Jun 2015 7:47

Instrument :

BNA_G

ClientSampleId :

RT440NB6.2(2)

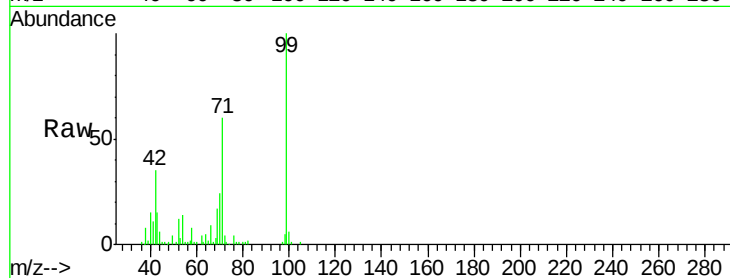
Tgt Ion: 99 Resp: 72937

Ion Ratio Lower Upper

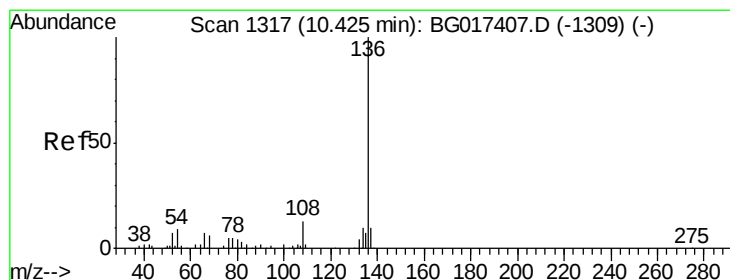
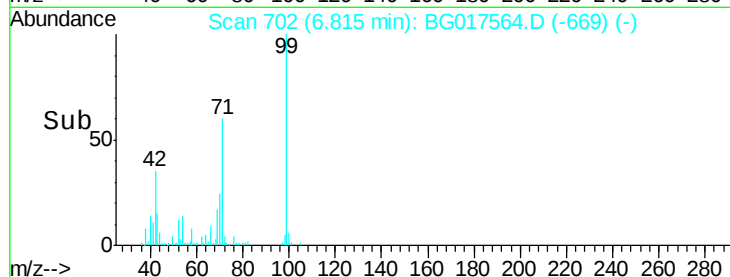
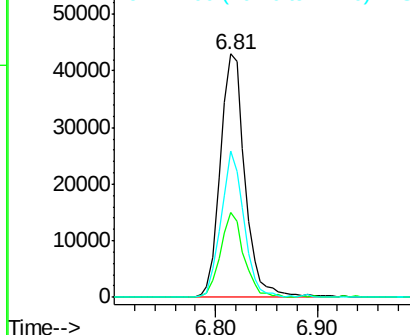
99 100

42 35.1 21.0 31.6#

71 60.2 37.2 55.8#



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: 10.40 min Scan# 1312

Delta R.T. -0.00 min

Lab File: BG017564.D

Acq: 9 Jun 2015 7:47

Tgt Ion: 136 Resp: 91027

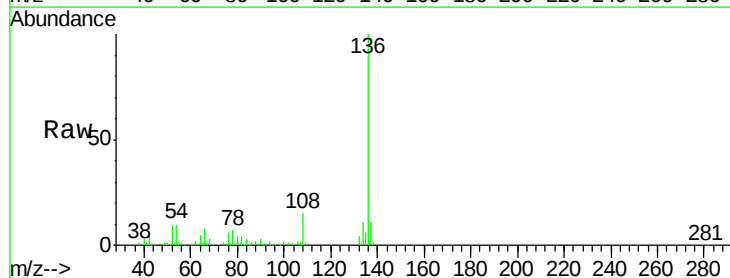
Ion Ratio Lower Upper

136 100

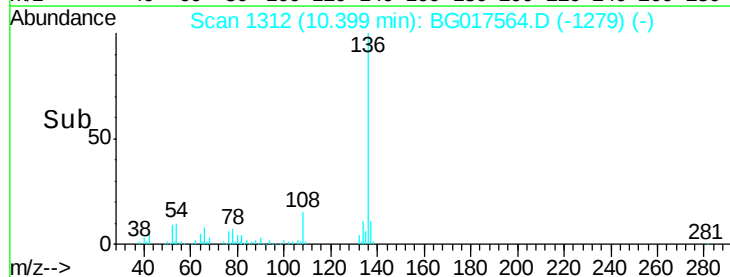
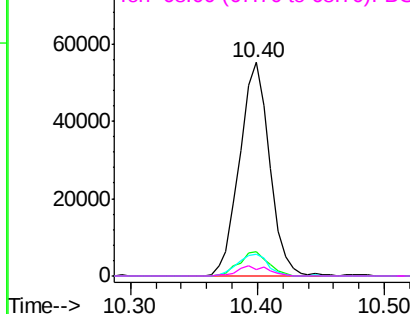
137 11.5 7.9 11.9

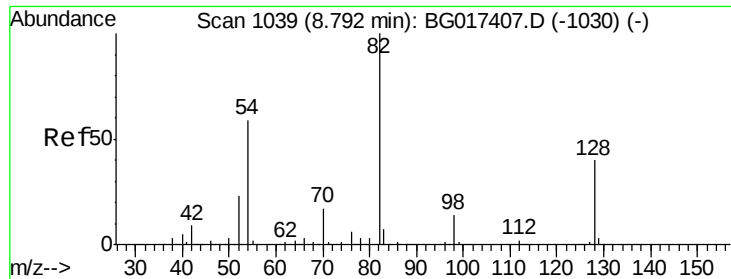
54 10.4 7.2 10.8

68 3.2 4.5 6.7#



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

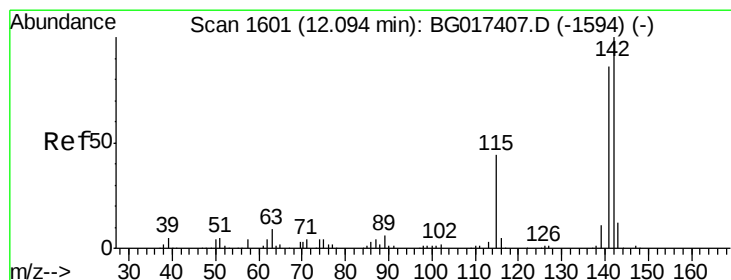
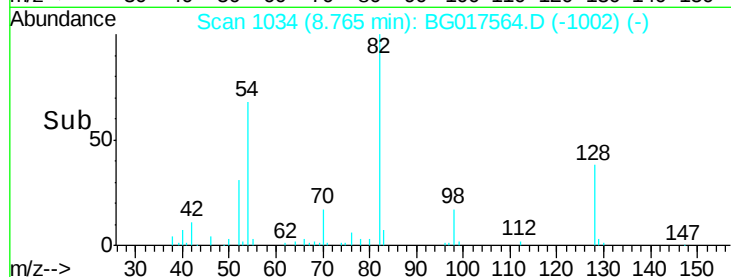
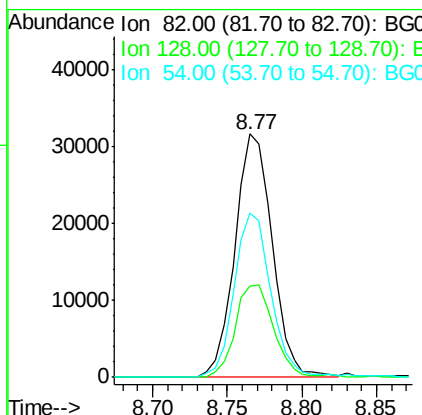
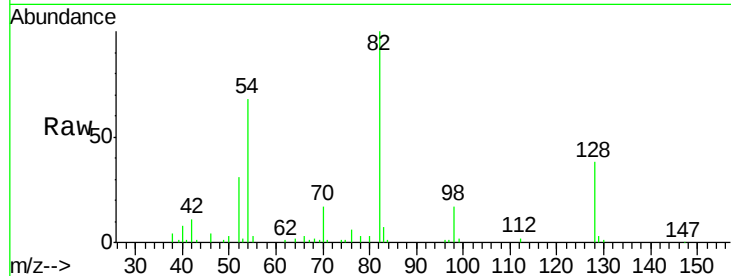




#23
Nitrobenzene-d5
Concen: 30.29 ng
RT: 8.77 min Scan# 1034
Delta R.T. -0.01 min
Lab File: BG017564.D
Acq: 9 Jun 2015 7:47

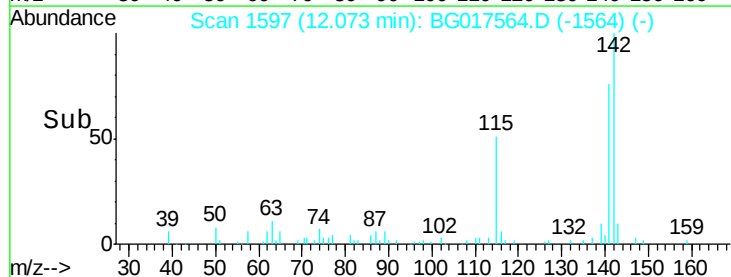
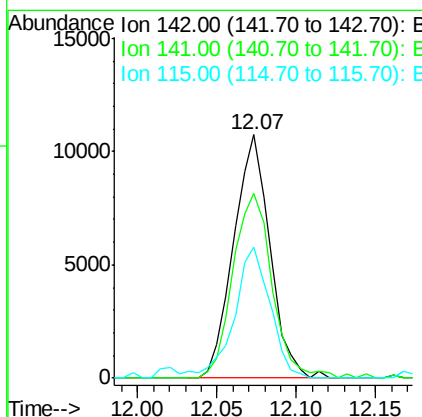
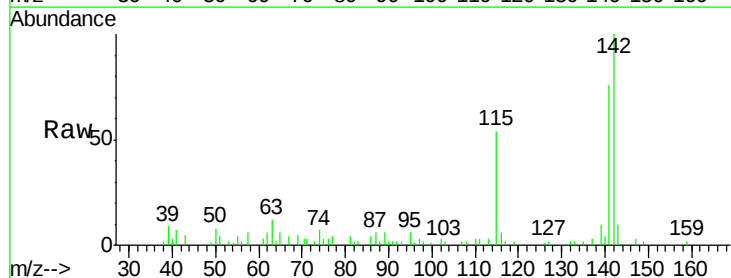
Instrument :
BNA_G
ClientSampleId :
RT440NB6.2(2)

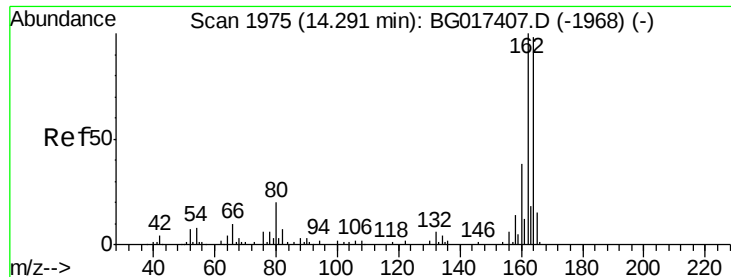
Tgt Ion	Ratio	Lower	Upper
82	100		
128	37.5	32.2	48.4
54	67.6	47.4	71.2



#37
2-Methylnaphthalene
Concen: 4.66 ng
RT: 12.07 min Scan# 1597
Delta R.T. -0.00 min
Lab File: BG017564.D
Acq: 9 Jun 2015 7:47

Tgt Ion	Ratio	Lower	Upper
142	100		
141	76.1	68.6	102.8
115	53.7	35.3	52.9#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.27 min Scan# 1971

Delta R.T. -0.02 min

Lab File: BG017564.D

Acq: 9 Jun 2015 7:47

Instrument :

BNA_G

ClientSampleId :

RT440NB6.2(2)

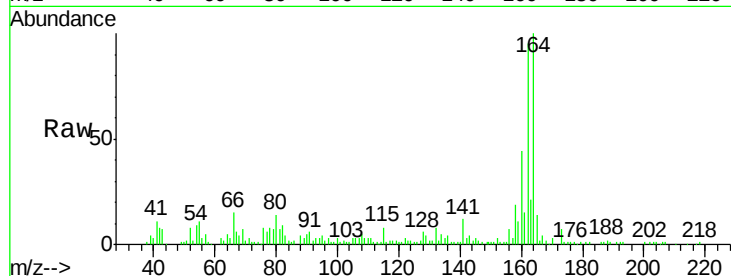
Tgt Ion:164 Resp: 57402

Ion Ratio Lower Upper

164 100

162 94.7 81.8 122.6

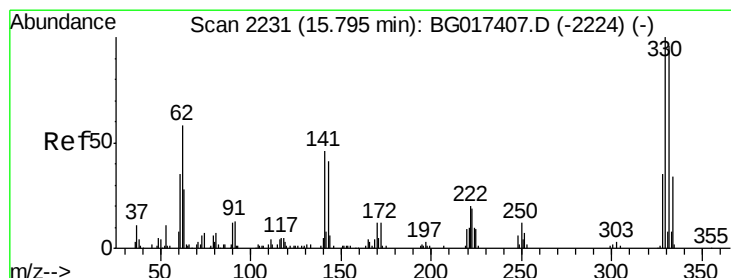
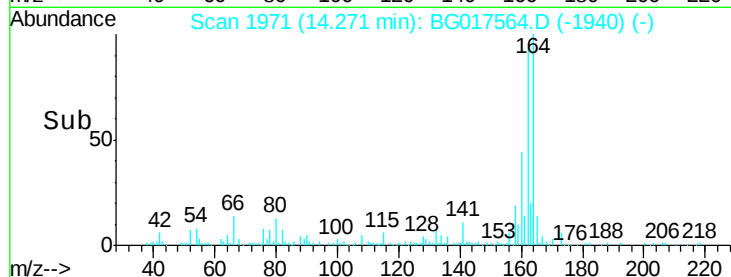
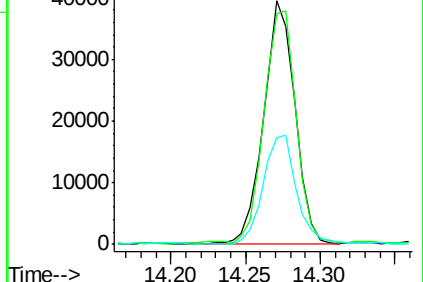
160 43.6 31.0 46.4



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: 36.31 ng

RT: 15.77 min Scan# 2227

Delta R.T. -0.01 min

Lab File: BG017564.D

Acq: 9 Jun 2015 7:47

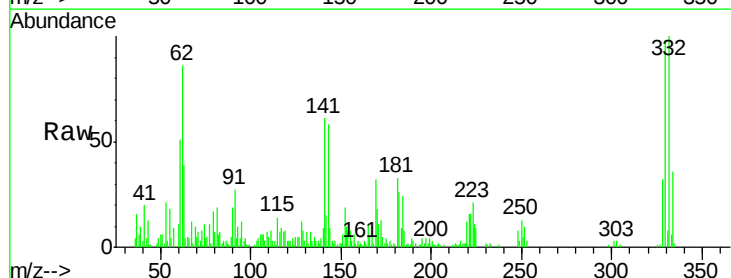
Tgt Ion:330 Resp: 28947

Ion Ratio Lower Upper

330 100

332 99.0 75.9 113.9

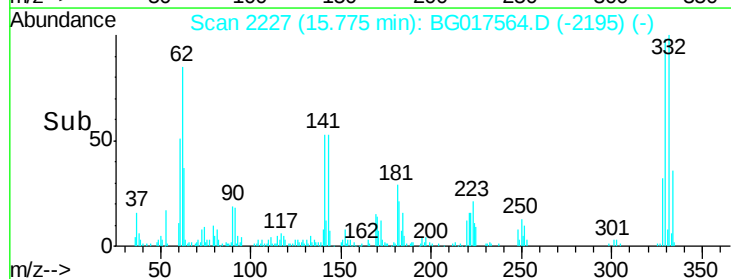
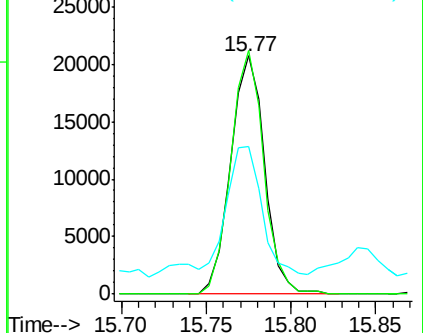
141 58.6 40.2 60.4

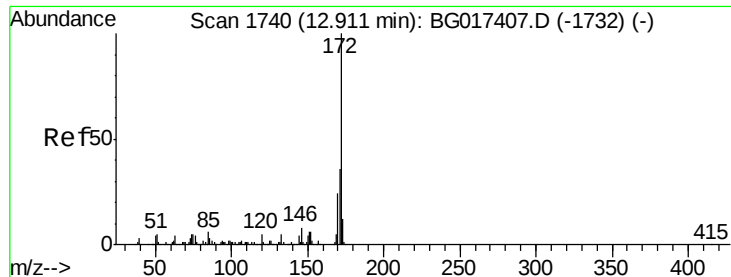


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

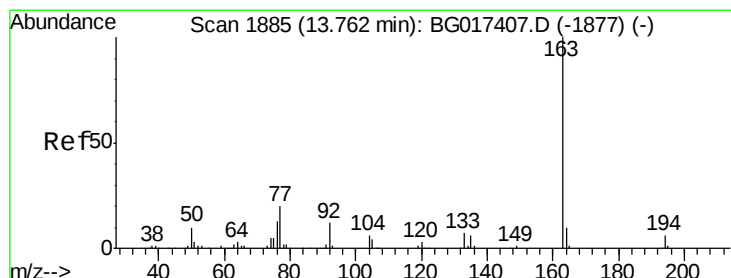
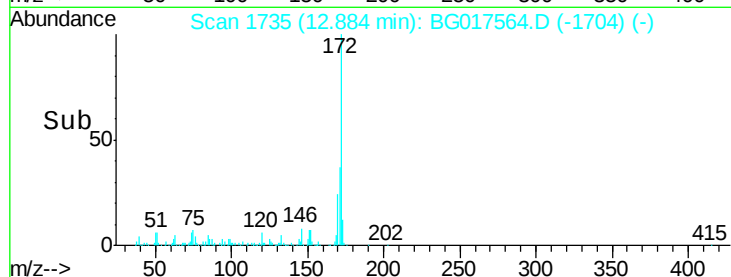
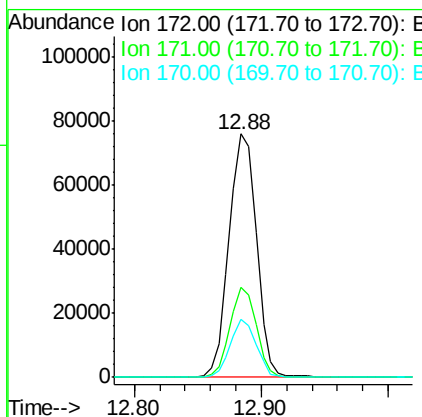
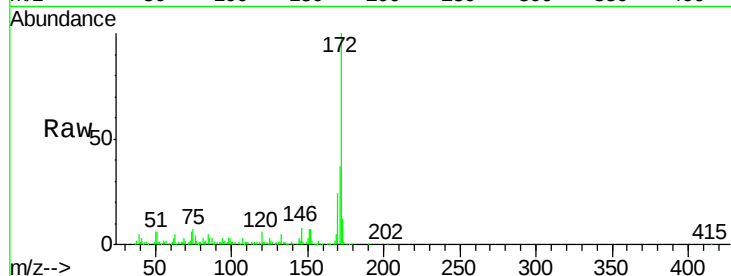




#44
2-Fluorobiphenyl
Concen: 30.04 ng
RT: 12.88 min Scan# 1735
Delta R.T. -0.02 min
Lab File: BG017564.D
Acq: 9 Jun 2015 7:47

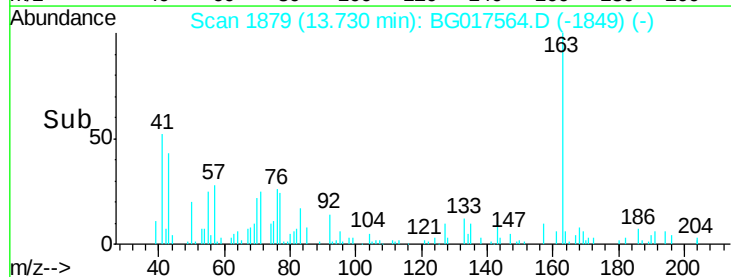
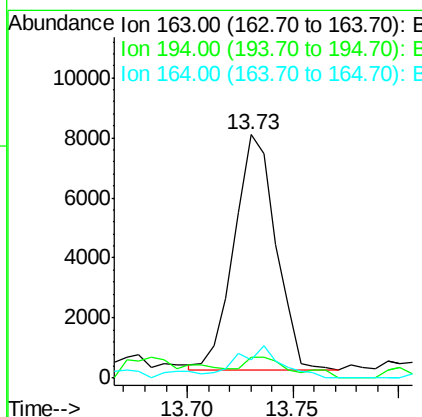
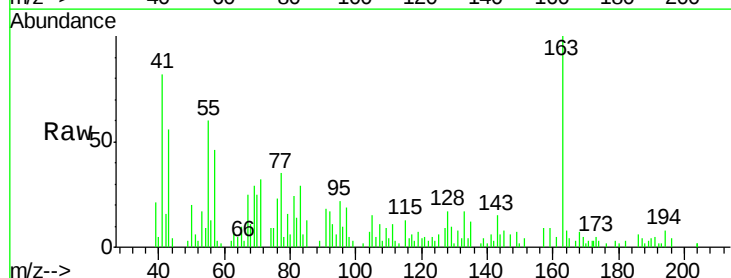
Instrument :
BNA_G
ClientSampleId :
RT440NB6.2(2)

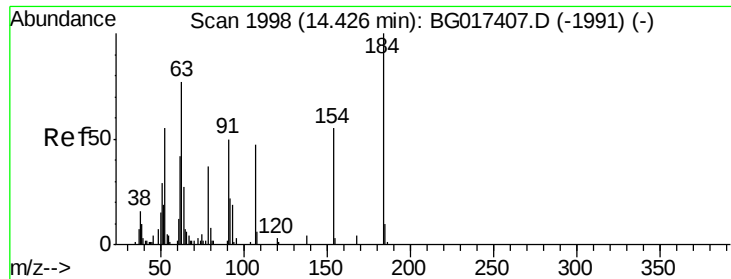
Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.1	29.0	43.6
170	23.9	18.9	28.3



#49
Dimethylphthalate
Concen: 2.17 ng
RT: 13.73 min Scan# 1879
Delta R.T. -0.02 min
Lab File: BG017564.D
Acq: 9 Jun 2015 7:47

Tgt Ion	Ratio	Lower	Upper
163	100		
194	8.5	4.9	7.3#
164	7.8	8.2	12.2#

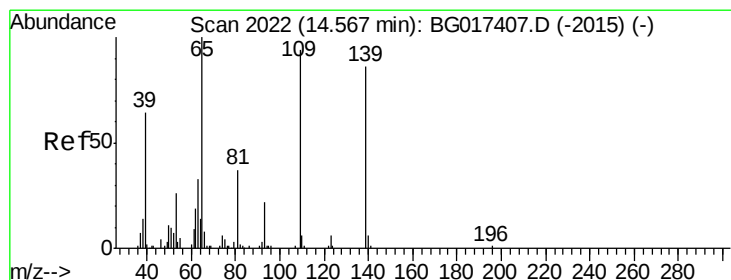
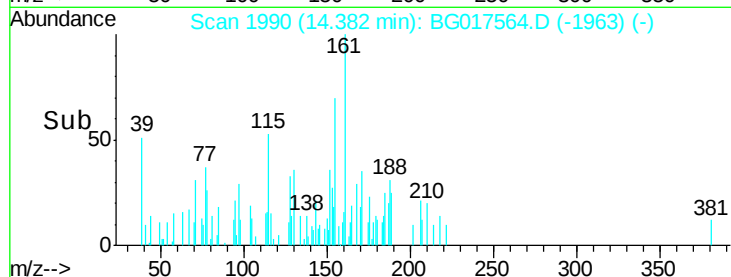
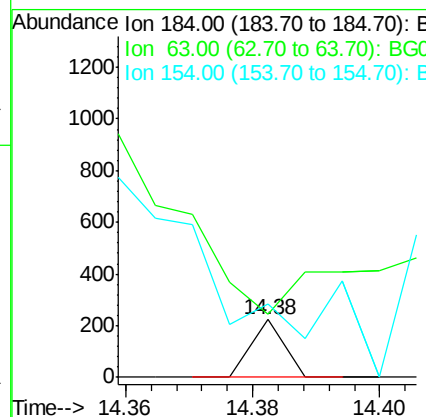
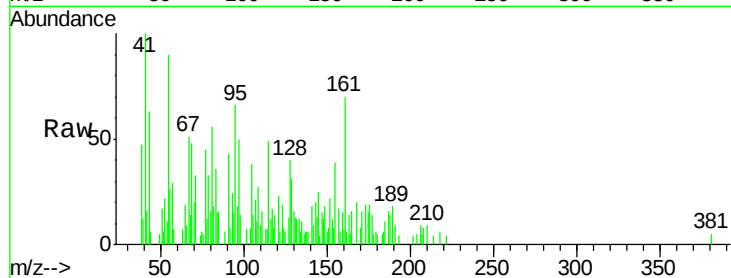




#53
 2,4-Dinitrophenol
 Concen: 7.12 ng
 RT: 14.38 min Scan# 1990
 Delta R.T. -0.04 min
 Lab File: BG017564.D
 Acq: 9 Jun 2015 7:47

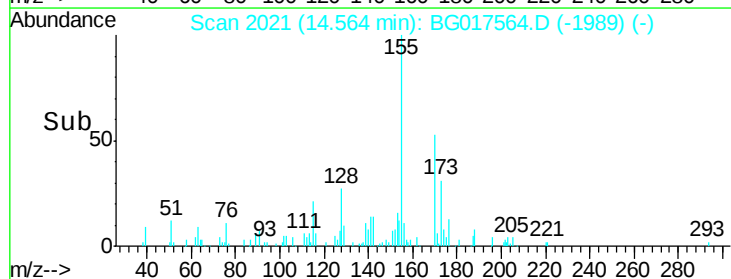
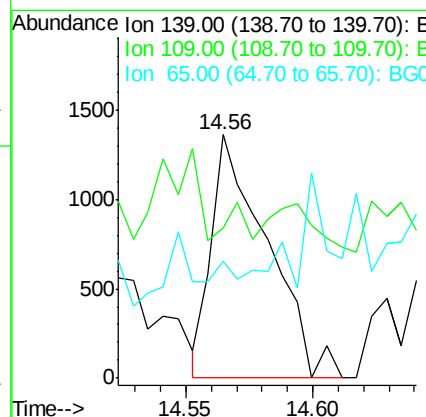
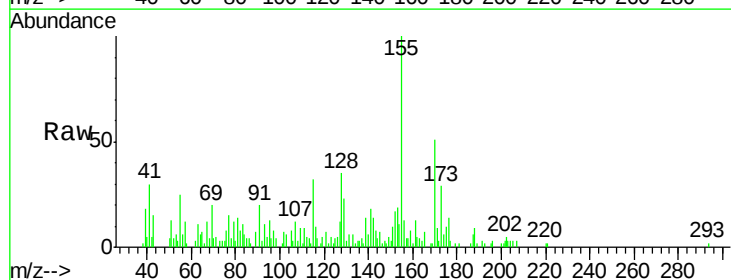
Instrument :
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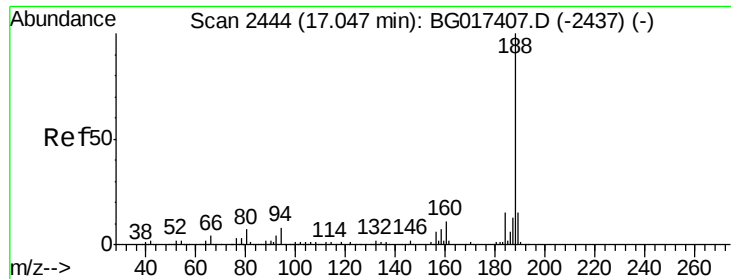
Tgt Ion:184 Resp: 79
 Ion Ratio Lower Upper
 184 100
 63 109.4 61.5 92.3#
 154 127.8 53.8 80.8#



#55
 4-Nitrophenol
 Concen: 2.92 ng
 RT: 14.56 min Scan# 2021
 Delta R.T. -0.01 min
 Lab File: BG017564.D
 Acq: 9 Jun 2015 7:47

Tgt Ion:139 Resp: 2087
 Ion Ratio Lower Upper
 139 100
 109 61.8 89.5 129.5#
 65 48.2 95.9 135.9#

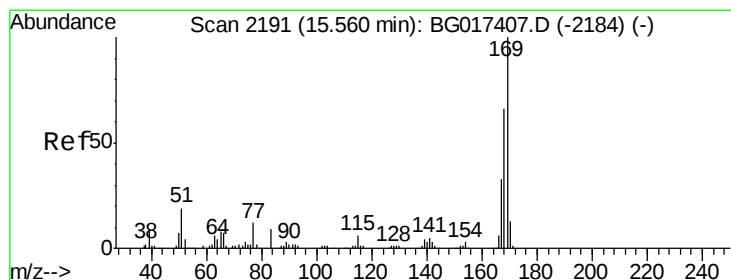
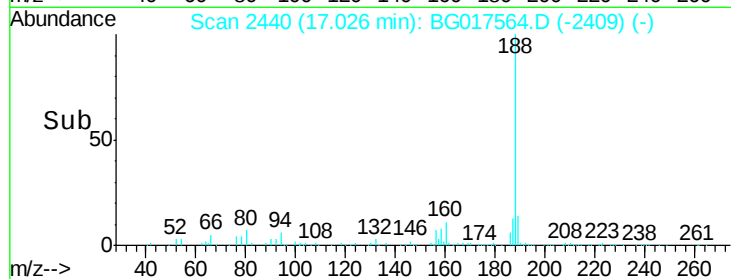
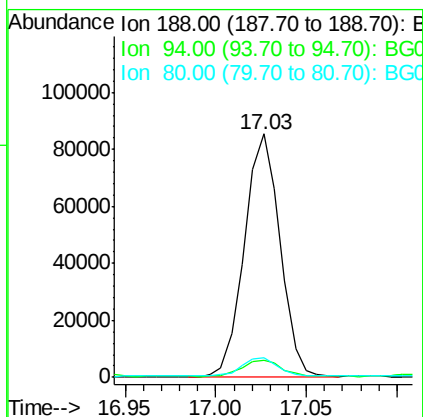
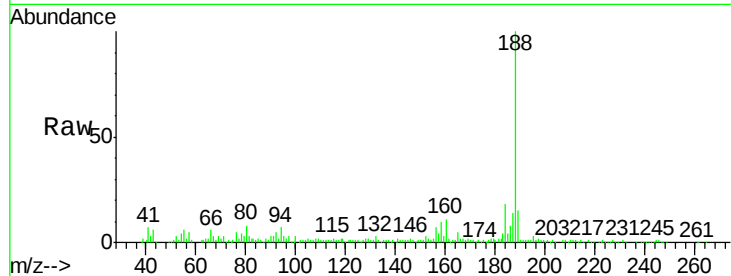




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.03 min Scan# 2440
Delta R.T. -0.02 min
Lab File: BG017564.D
Acq: 9 Jun 2015 7:47

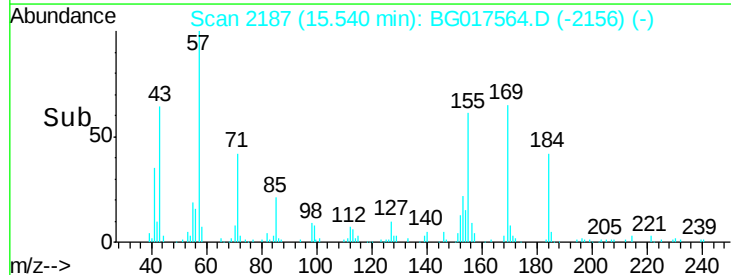
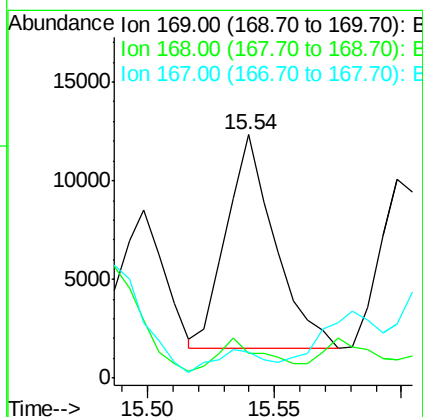
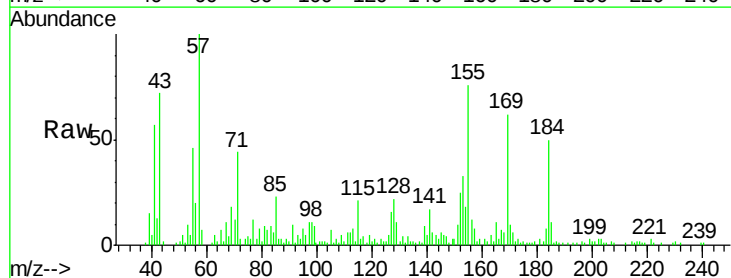
Instrument :
BNA_G
ClientSampleId :
RT440NB6.2(2)

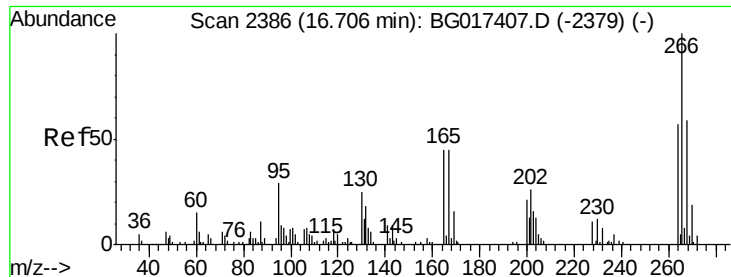
Tgt Ion:188 Resp: 116855
Ion Ratio Lower Upper
188 100
94 6.8 6.3 9.5
80 7.9 5.2 7.8#



#65
n-Nitrosodiphenylamine
Concen: 4.10 ng
RT: 15.54 min Scan# 2187
Delta R.T. -0.02 min
Lab File: BG017564.D
Acq: 9 Jun 2015 7:47

Tgt Ion:169 Resp: 14300
Ion Ratio Lower Upper
169 100
168 10.3 52.4 78.6#
167 10.7 26.3 39.5#





#69

Pentachlorophenol

Concen: 5.56 ng

RT: 16.55 min Scan# 2359

Delta R.T. -0.15 min

Lab File: BG017564.D

Acq: 9 Jun 2015 7:47

Instrument :

BNA_G

ClientSampleId :

RT440NB6.2(2)

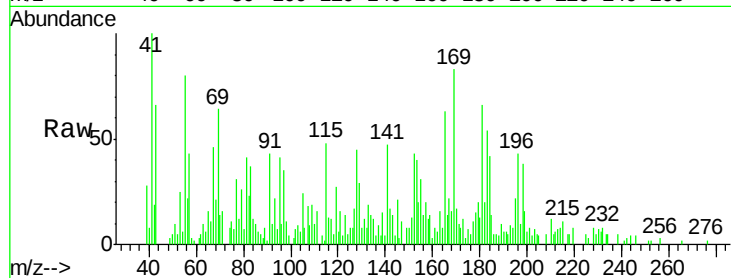
Tgt Ion:266 Resp: 53

Ion Ratio Lower Upper

266 100

268 0.0 47.0 70.6#

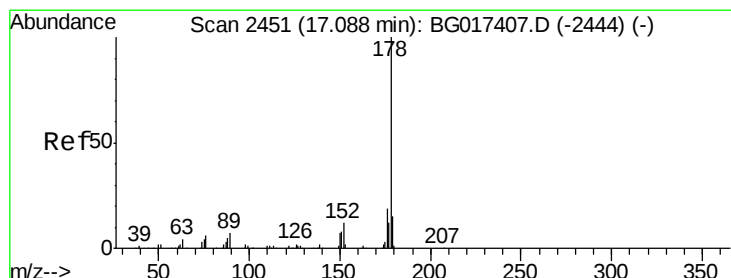
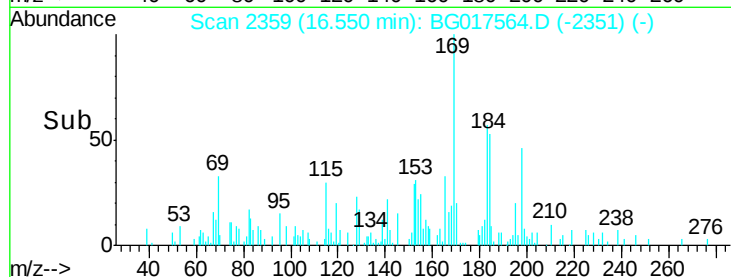
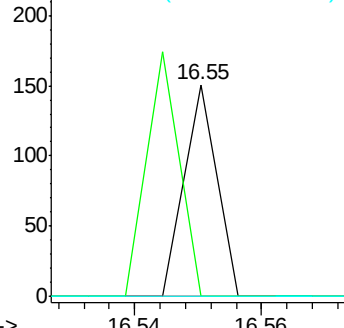
264 0.0 45.7 68.5#



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



#70

Phenanthrene

Concen: 33.15 ng

RT: 17.07 min Scan# 2447

Delta R.T. -0.02 min

Lab File: BG017564.D

Acq: 9 Jun 2015 7:47

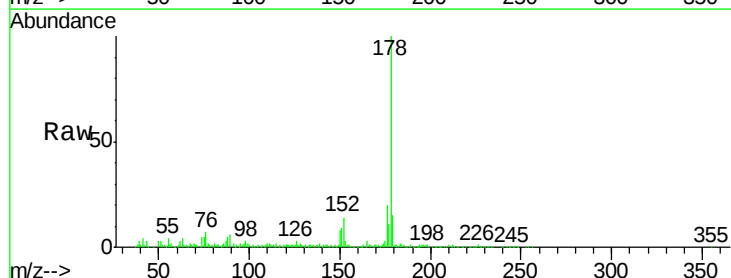
Tgt Ion:178 Resp: 215998

Ion Ratio Lower Upper

178 100

176 19.5 15.6 23.4

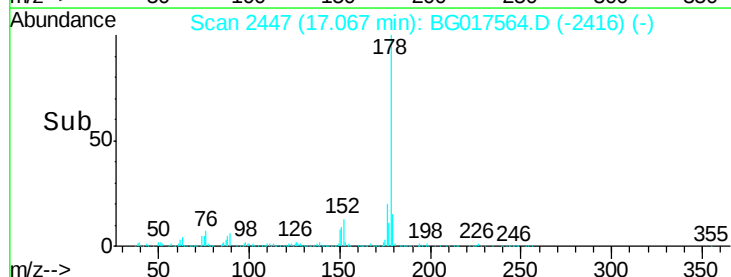
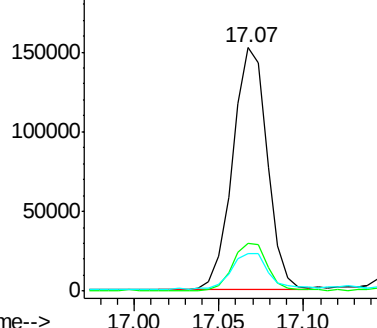
179 15.3 12.2 18.2

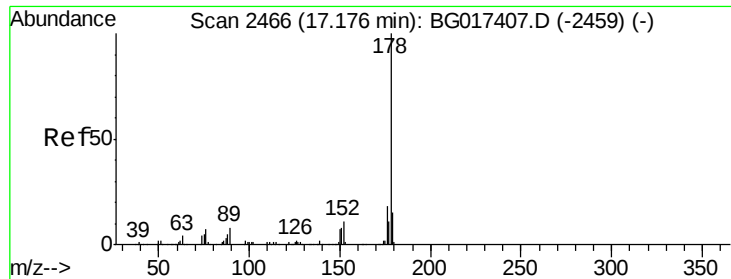


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

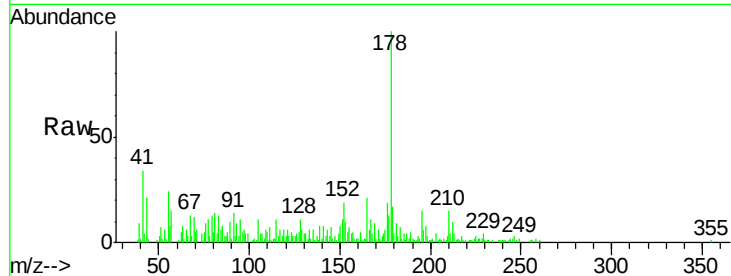




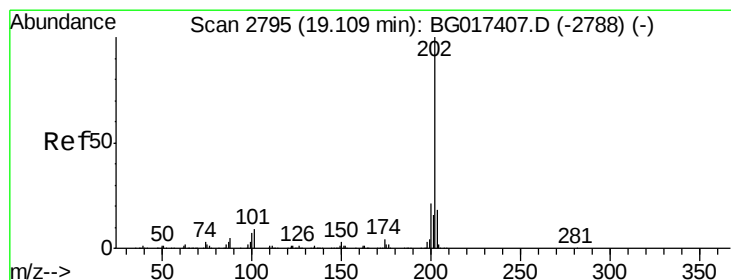
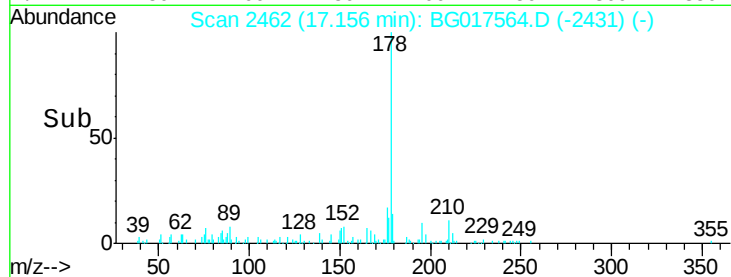
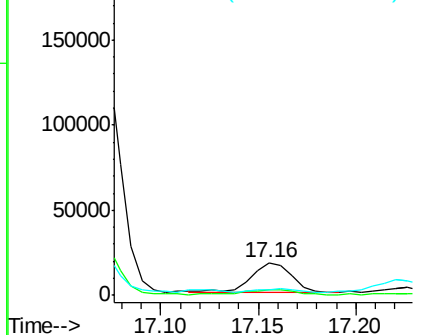
#71
 Anthracene
 Concen: 3.79 ng
 RT: 17.16 min Scan# 2462
 Delta R.T. -0.02 min
 Lab File: BG017564.D
 Acq: 9 Jun 2015 7:47

Instrument :
 BNA_G
 ClientSampleId :
 RT440NB6.2(2)

Tgt Ion:178 Resp: 24678
 Ion Ratio Lower Upper
 178 100
 176 18.6 14.2 21.2
 179 17.0 12.2 18.4

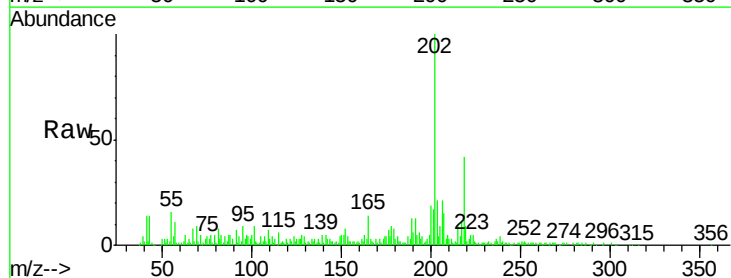


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

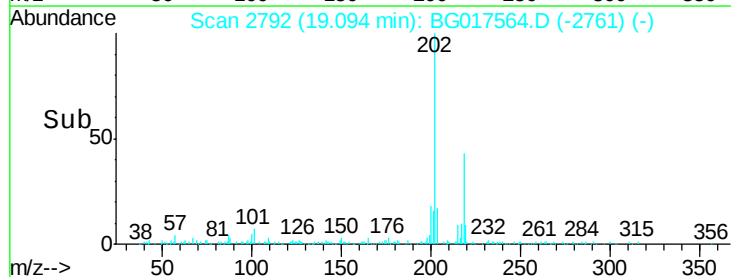
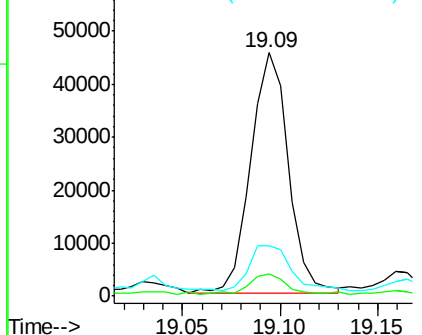


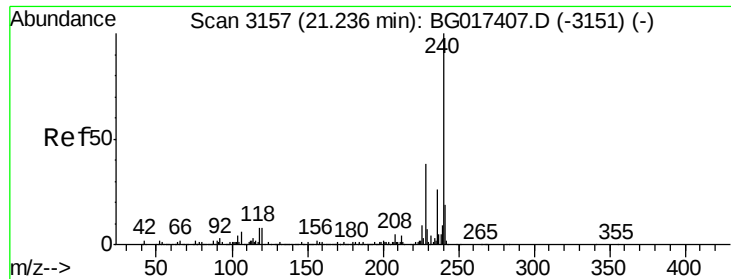
#74
 Fluoranthene
 Concen: 7.10 ng
 RT: 19.09 min Scan# 2792
 Delta R.T. -0.02 min
 Lab File: BG017564.D
 Acq: 9 Jun 2015 7:47

Tgt Ion:202 Resp: 60532
 Ion Ratio Lower Upper
 202 100
 101 9.3 0.0 28.8
 203 20.7 0.0 37.6



Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.22 min Scan# 3154

Delta R.T. -0.02 min

Lab File: BG017564.D

Acq: 9 Jun 2015 7:47

Instrument :

BNA_G

ClientSampleId :

RT440NB6.2(2)

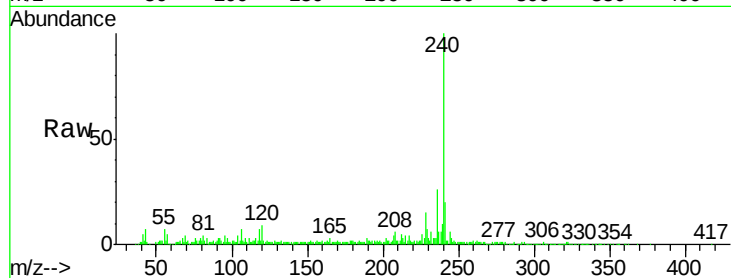
Tgt Ion:240 Resp: 135252

Ion Ratio Lower Upper

240 100

120 8.8 6.5 9.7

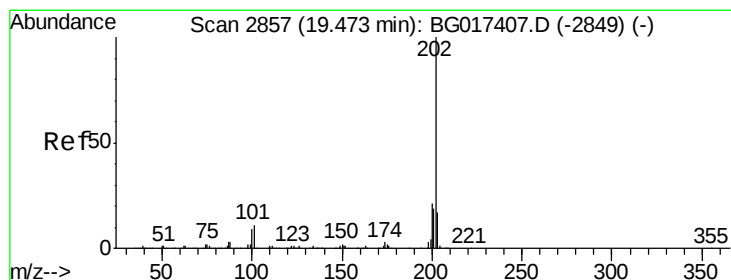
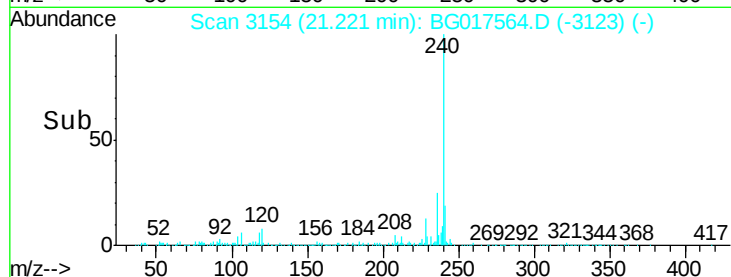
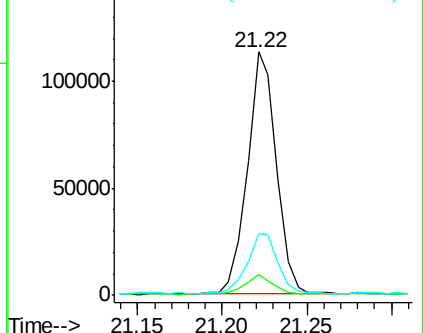
236 25.6 20.8 31.2



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: 28.10 ng

RT: 19.46 min Scan# 2854

Delta R.T. -0.02 min

Lab File: BG017564.D

Acq: 9 Jun 2015 7:47

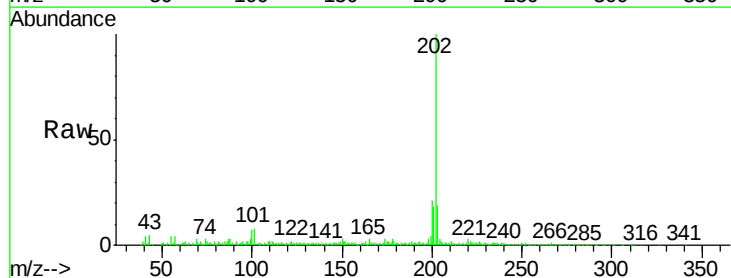
Tgt Ion:202 Resp: 234163

Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.4

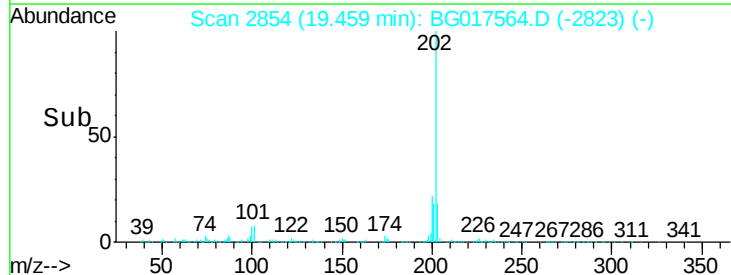
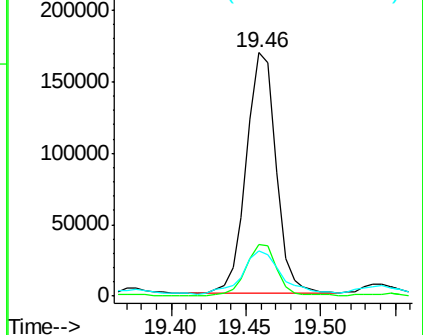
203 18.8 13.9 20.9

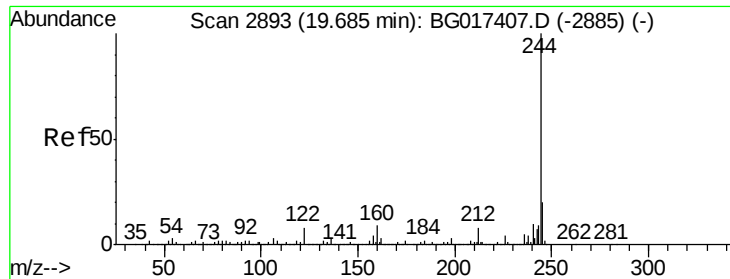


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 23.79 ng

RT: 19.66 min Scan# 2889

Delta R.T. -0.02 min

Lab File: BG017564.D

Acq: 9 Jun 2015 7:47

Instrument :

BNA_G

ClientSampleId :

RT440NB6.2(2)

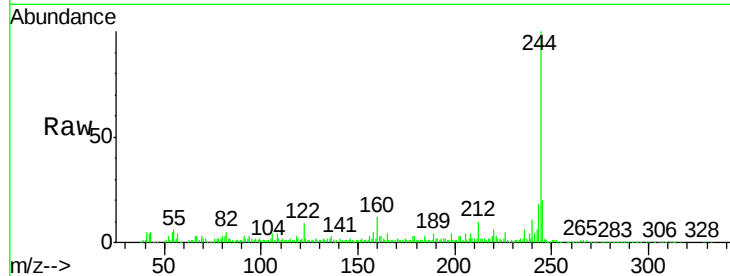
Tgt Ion:244 Resp: 155660

Ion Ratio Lower Upper

244 100

212 9.5 6.4 9.6

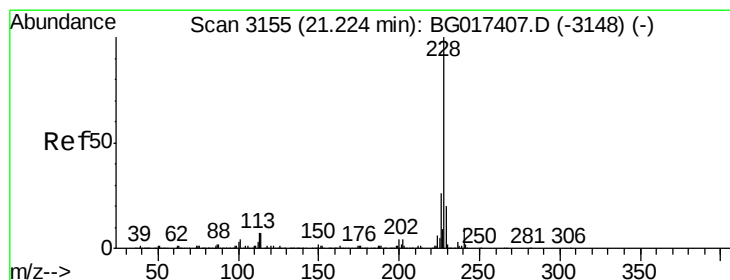
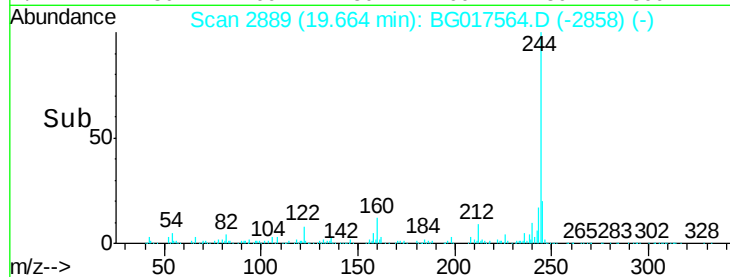
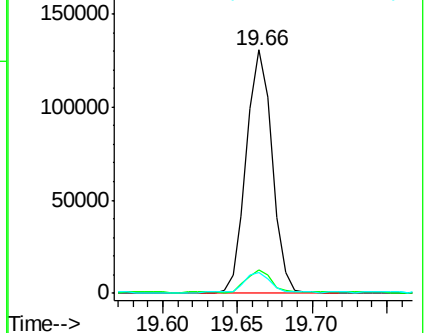
122 8.7 6.6 10.0



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: 6.24 ng

RT: 21.21 min Scan# 3152

Delta R.T. -0.02 min

Lab File: BG017564.D

Acq: 9 Jun 2015 7:47

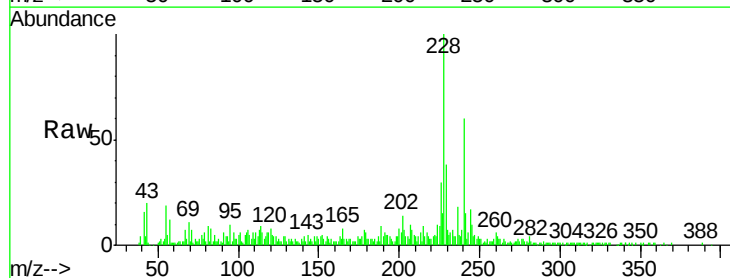
Tgt Ion:228 Resp: 51878

Ion Ratio Lower Upper

228 100

226 30.1 21.0 31.6

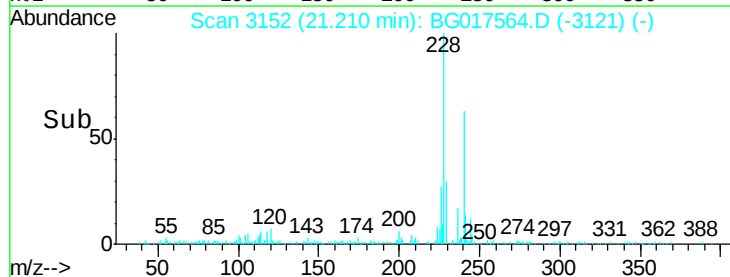
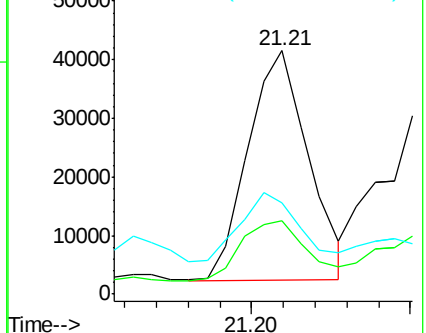
229 37.7 15.7 23.5#

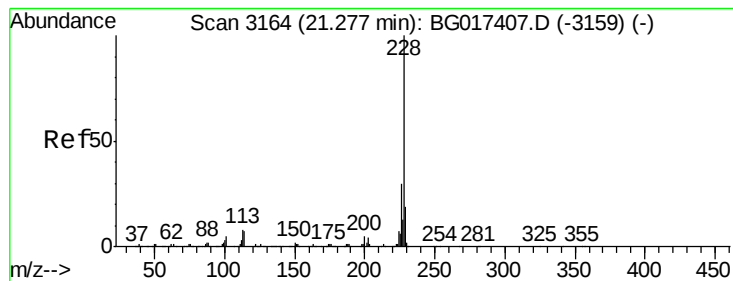


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 9.67 ng

RT: 21.26 min Scan# 3161

Delta R.T. -0.02 min

Lab File: BG017564.D

Acq: 9 Jun 2015 7:47

Instrument :

BNA_G

ClientSampleId :

RT440NB6.2(2)

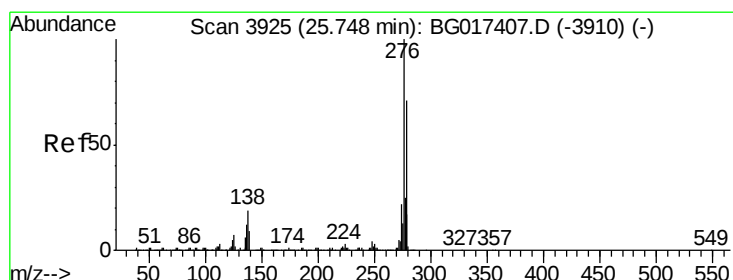
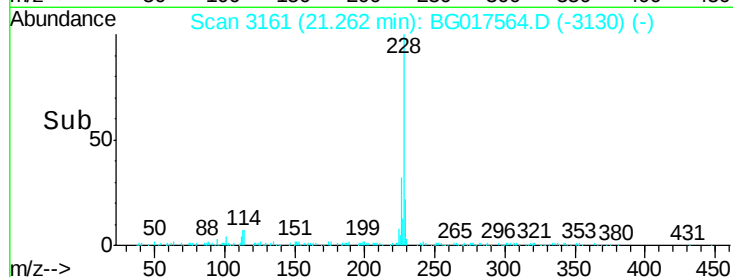
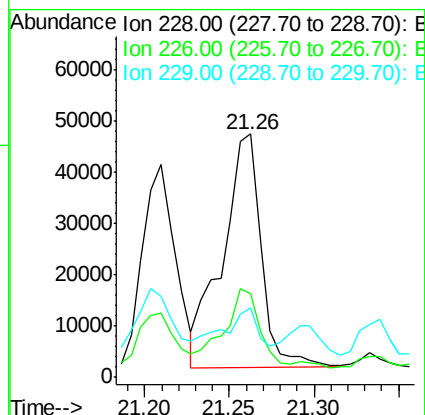
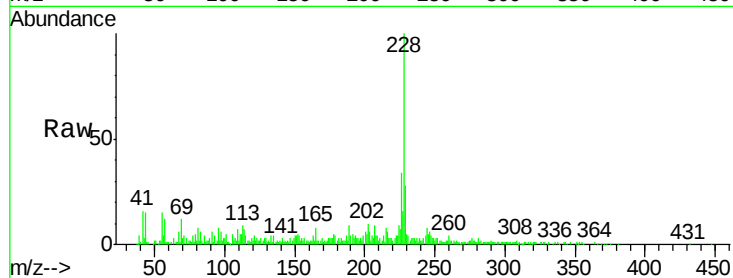
Tgt Ion:228 Resp: 72832

Ion Ratio Lower Upper

228 100

226 34.3 23.7 35.5

229 28.5 15.2 22.8#



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.02 ng

RT: 25.73 min Scan# 3921

Delta R.T. -0.04 min

Lab File: BG017564.D

Acq: 9 Jun 2015 7:47

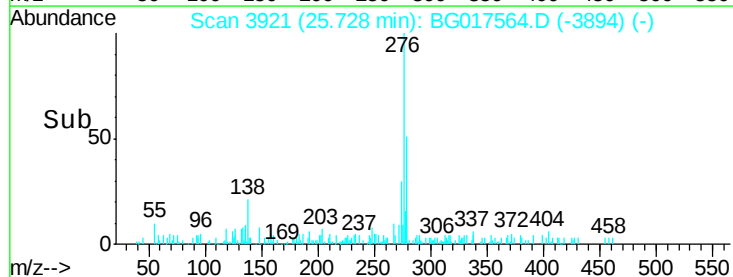
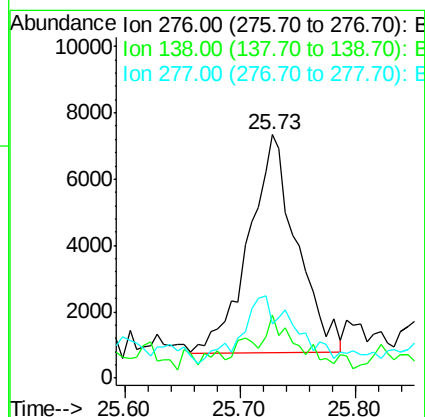
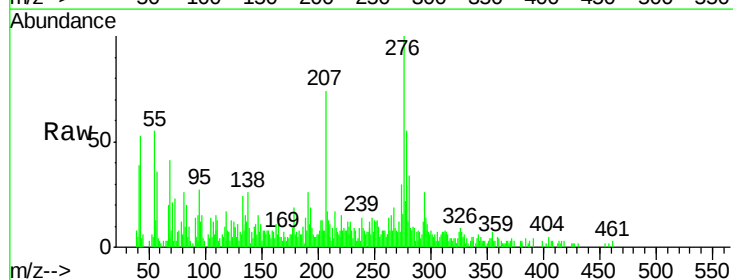
Tgt Ion:276 Resp: 19123

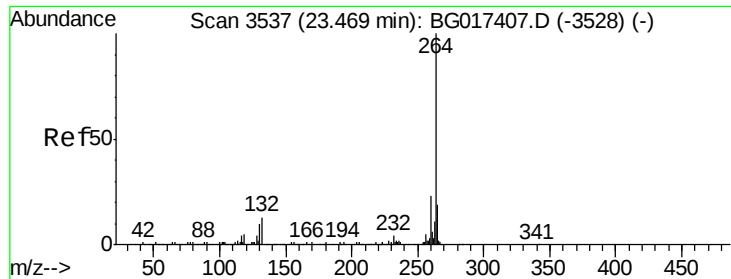
Ion Ratio Lower Upper

276 100

138 11.7 15.4 23.0#

277 33.3 20.5 30.7#





#86

Perylene-d12

Concen: 20.00 ng

RT: 23.46 min Scan# 3535

Delta R.T. -0.02 min

Lab File: BG017564.D

Acq: 9 Jun 2015 7:47

Instrument :

BNA_G

ClientSampleId :

RT440NB6.2(2)

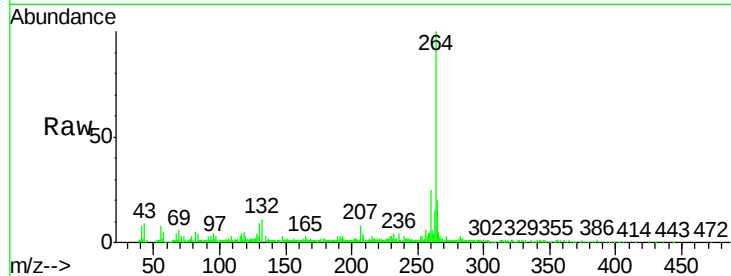
Tgt Ion:264 Resp: 139298

Ion Ratio Lower Upper

264 100

260 24.6 18.2 27.4

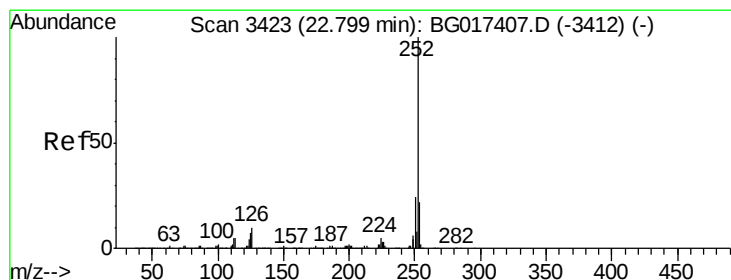
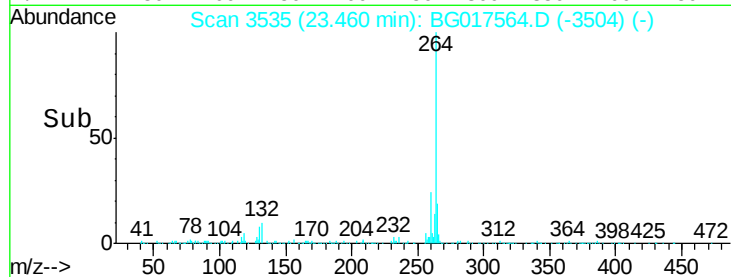
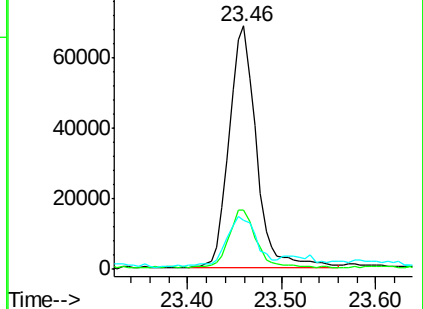
265 20.3 15.8 23.6



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: 6.21 ng

RT: 22.78 min Scan# 3420

Delta R.T. -0.02 min

Lab File: BG017564.D

Acq: 9 Jun 2015 7:47

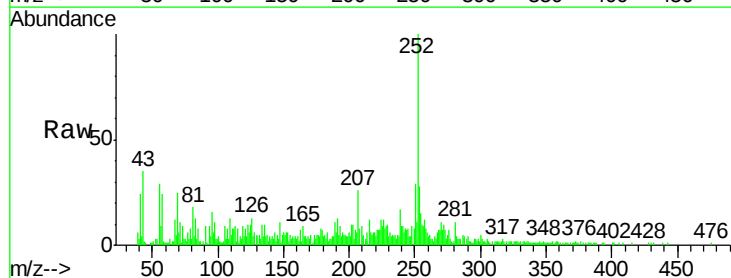
Tgt Ion:252 Resp: 54838

Ion Ratio Lower Upper

252 100

253 28.4 17.4 26.2#

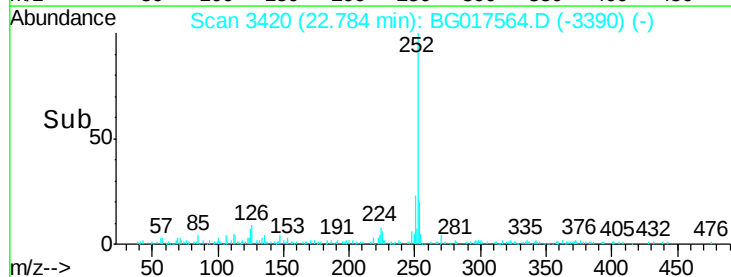
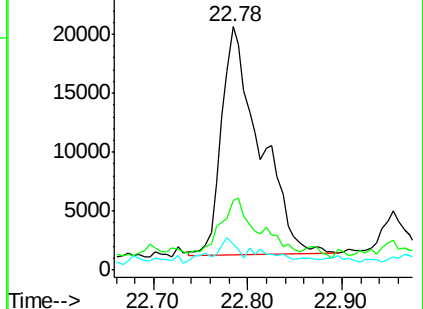
125 10.5 5.8 8.8#

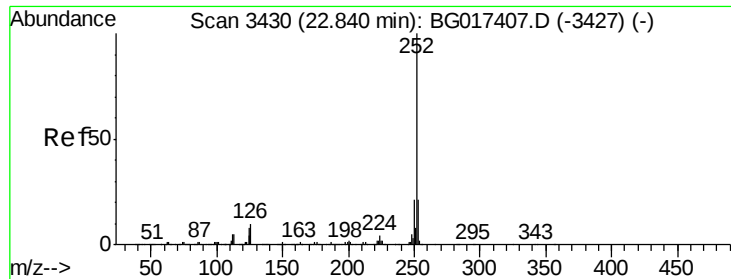


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

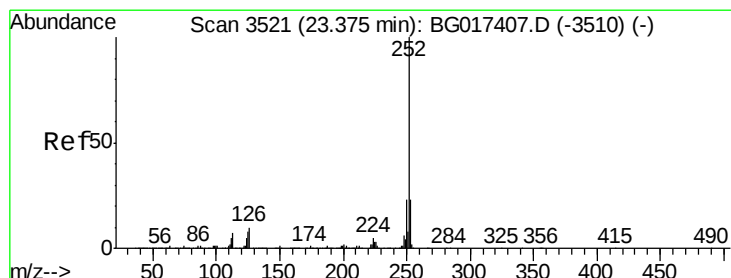
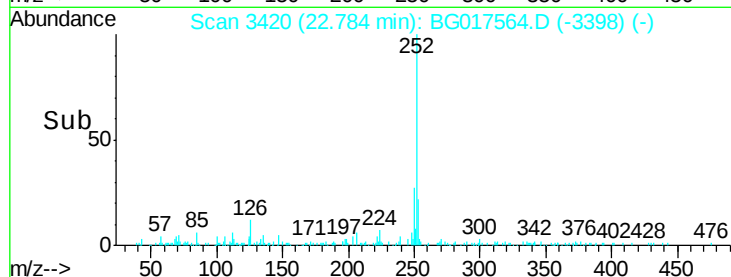
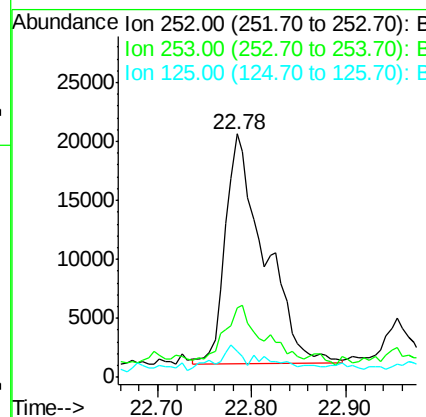
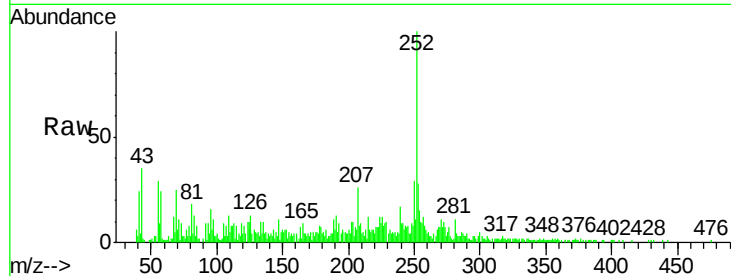




#88
Benzo(k)fluoranthene
Concen: 6.66 ng
RT: 22.78 min Scan# 3420
Delta R.T. -0.07 min
Lab File: BG017564.D
Acq: 9 Jun 2015 7:47

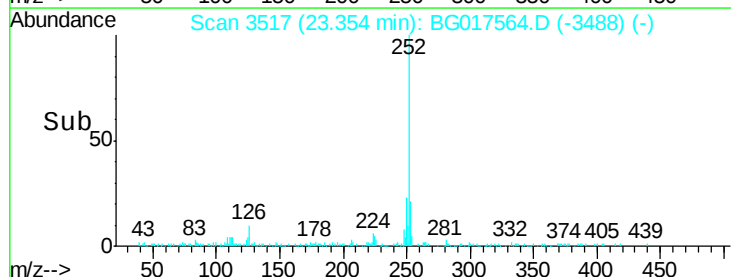
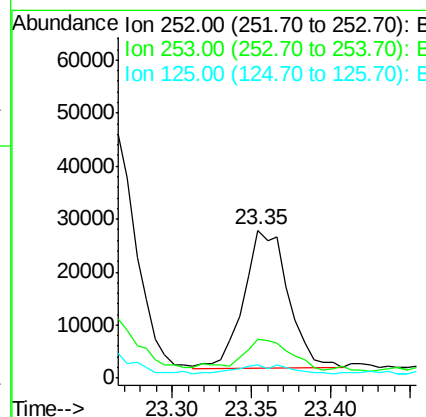
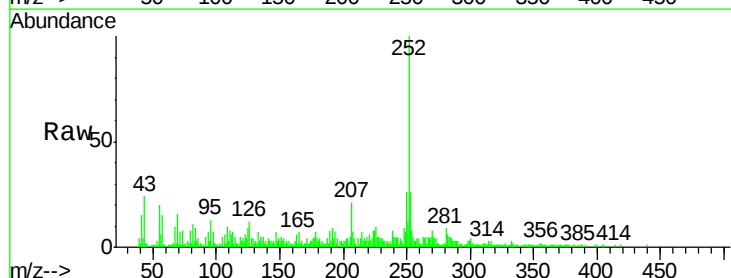
Instrument :
BNA_G
ClientSampleId :
RT440NB6.2(2)

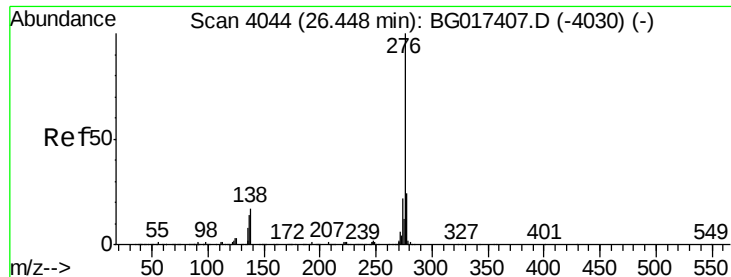
Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.4	17.7	26.5#
125	10.5	6.5	9.7#



#89
Benzo(a)pyrene
Concen: 6.28 ng
RT: 23.35 min Scan# 3517
Delta R.T. -0.03 min
Lab File: BG017564.D
Acq: 9 Jun 2015 7:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.4	18.1	27.1
125	9.2	6.5	9.7





#91

Benzo(g,h,i)perylene

Concen: 6.43 ng

RT: 26.43 min Scan# 4040

Delta R.T. -0.05 min

Lab File: BG017564.D

Acq: 9 Jun 2015 7:47

Instrument :

BNA_G

ClientSampleId :

RT440NB6.2(2)

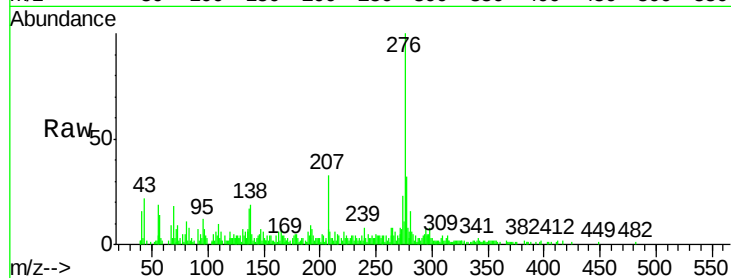
Tgt Ion: 276 Resp: 51512

Ion Ratio Lower Upper

276 100

277 32.0 19.2 28.8#

138 18.5 13.5 20.3



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

