

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121115\
 Data File : BG020086.D
 Acq On : 10 Dec 2015 21:51
 Operator : UM/SJ
 Sample : G4683-13
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S1-14.5

Quant Time: Dec 11 04:49:46 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG120215.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 02 18:50:01 2015
 Response via : Initial Calibration

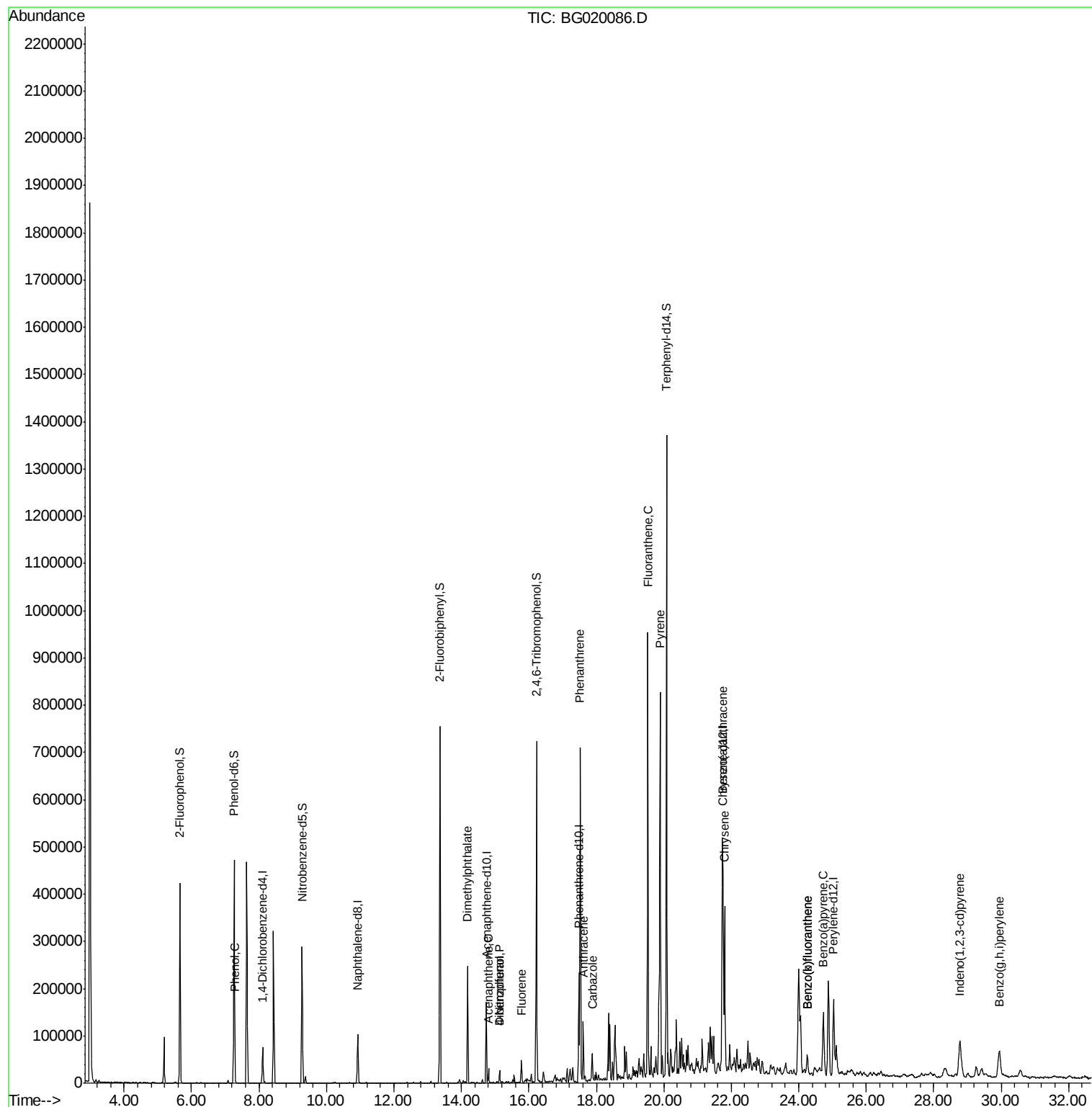
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.11	152	20888	20.00	ng	-0.03
21) Naphthalene-d8	10.92	136	86736	20.00	ng	-0.03
38) Acenaphthene-d10	14.74	164	59703	20.00	ng	-0.03
63) Phenanthrene-d10	17.48	188	142017	20.00	ng	-0.03
75) Chrysene-d12	21.75	240	175243	20.00	ng	-0.04
86) Perylene-d12	25.04	264	166916	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.66	112	181946	157.43	ng	0.00
7) Phenol-d6	7.26	99	270688	155.13	ng	-0.01
23) Nitrobenzene-d5	9.28	82	179956	105.89	ng	-0.02
41) 2,4,6-Tribromophenol	16.22	330	136611	149.55	ng	-0.02
44) 2-Fluorobiphenyl	13.36	172	385934	88.26	ng	-0.03
78) Terphenyl-d14	20.08	244	612404	85.24	ng	-0.03
Target Compounds						Qvalue
10) Phenol	7.29	94	3973	2.16	ng	# 48
49) Dimethylphthalate	14.19	163	164815	30.69	ng	97
51) Acenaphthene	14.80	154	12331	3.16	ng	95
54) Dibenzofuran	15.13	168	14261	2.46	ng	92
55) 4-Nitrophenol	15.13	139	5421	5.93	ng	# 14
57) Fluorene	15.78	166	21661	4.17	ng	93
70) Phenanthrene	17.52	178	455675	56.71	ng	98
71) Anthracene	17.62	178	85757	10.48	ng	95
72) Carbazole	17.88	167	39129	5.43	ng	97
74) Fluoranthene	19.53	202	612378	59.58	ng	94
77) Pyrene	19.89	202	548894	53.24	ng	96
80) Benzo(a)anthracene	21.74	228	282249	26.31	ng	98
82) Chrysene	21.81	228	251117	24.66	ng	97
85) Indeno(1,2,3-cd)pyrene	28.77	276	140285	12.50	ng	# 100
87) Benzo(b)fluoranthene	24.25	252	35092	3.32	ng	94
88) Benzo(k)fluoranthene	24.25	252	41116	3.92	ng	94
89) Benzo(a)pyrene	24.73	252	140752	14.01	ng	97
91) Benzo(g,h,i)perylene	29.94	276	132758	13.63	ng	# 93

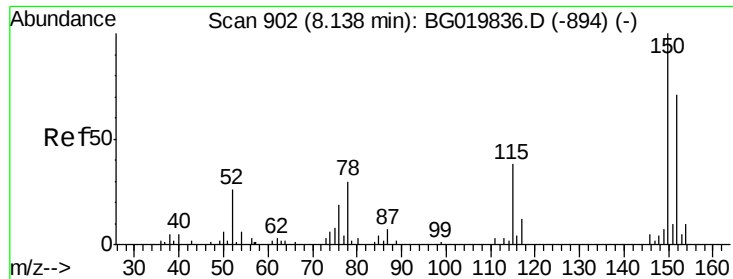
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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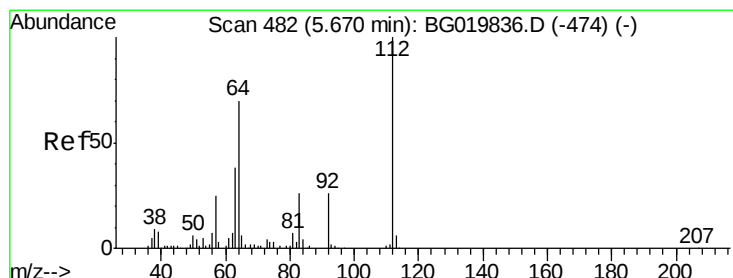
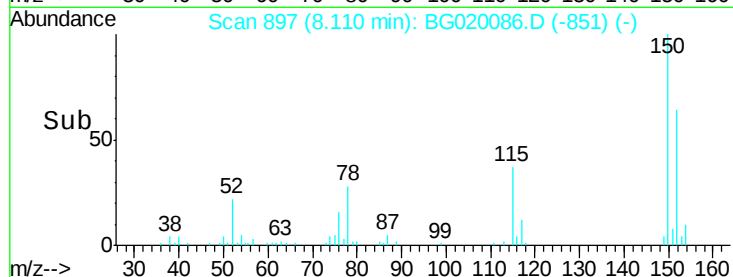
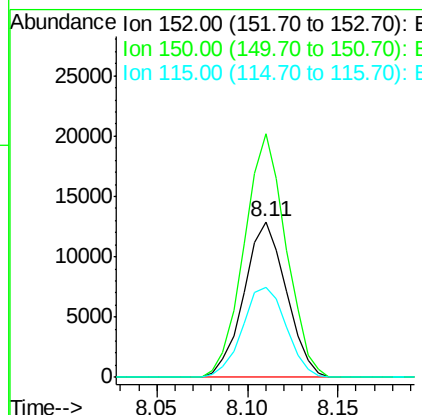
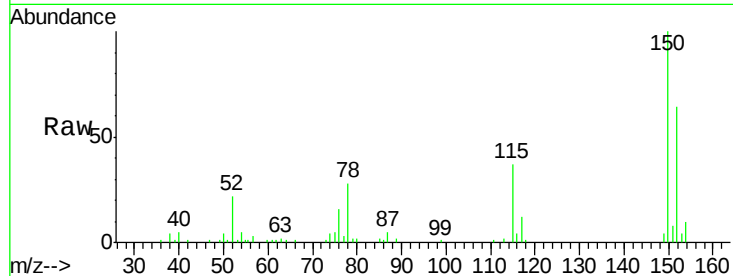




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 8.11 min Scan# 897
 Delta R.T. -0.03 min
 Lab File: BG020086.D
 Acq: 10 Dec 2015 21:51

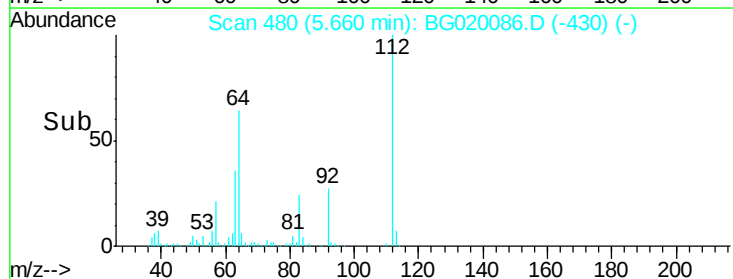
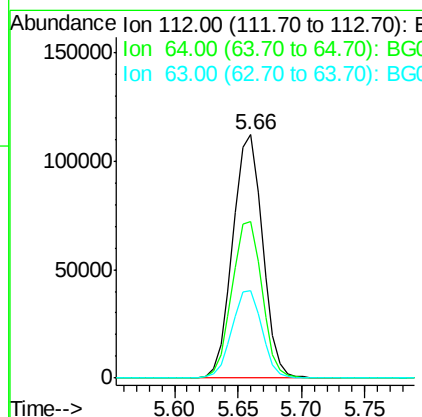
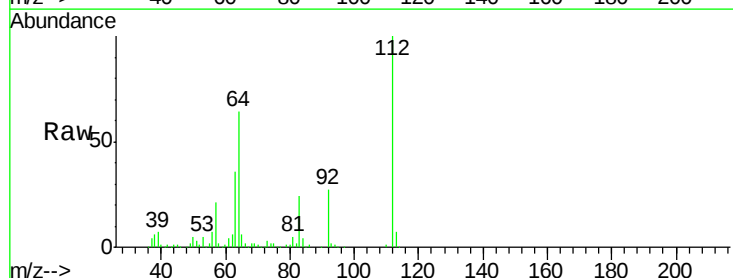
Instrument :
 BNA_F
 ClientSampled :
 S1-14.5

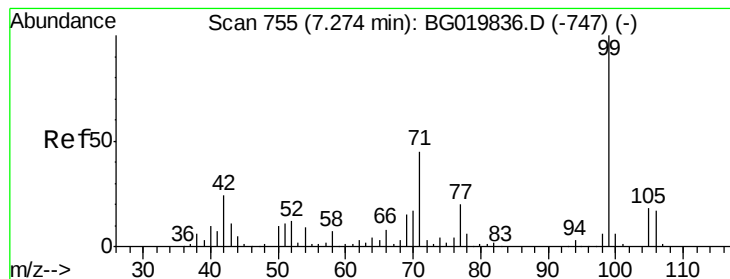
Tgt Ion:152 Resp: 20888
 Ion Ratio Lower Upper
 152 100
 150 156.6 115.0 172.4
 115 57.9 43.9 65.9



#5
 2-Fluorophenol
 Concen: 157.43 ng
 RT: 5.66 min Scan# 480
 Delta R.T. -0.01 min
 Lab File: BG020086.D
 Acq: 10 Dec 2015 21:51

Tgt Ion:112 Resp: 181946
 Ion Ratio Lower Upper
 112 100
 64 64.5 43.7 65.5
 63 35.7 24.0 36.0





#7

Phenol-d6

Concen: 155.13 ng

RT: 7.26 min Scan# 753

Delta R.T. -0.01 min

Lab File: BG020086.D

Acq: 10 Dec 2015 21:51

Instrument :

BNA_F

ClientSampleId :

S1-14.5

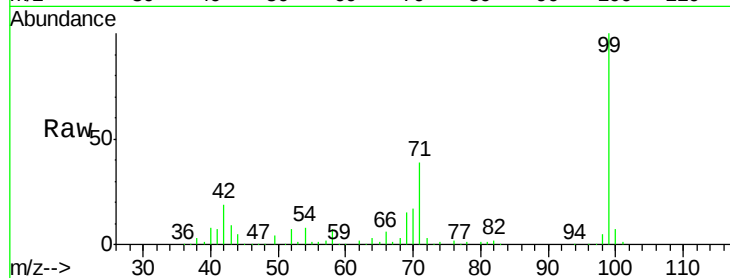
Tgt Ion: 99 Resp: 270688

Ion Ratio Lower Upper

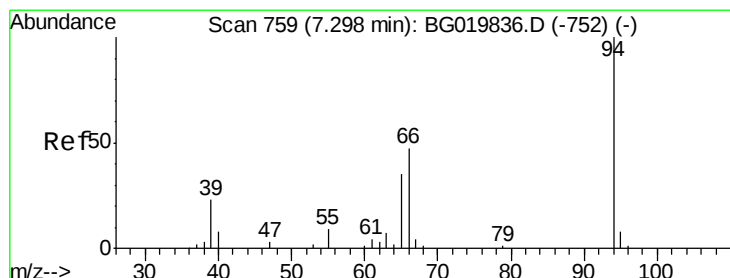
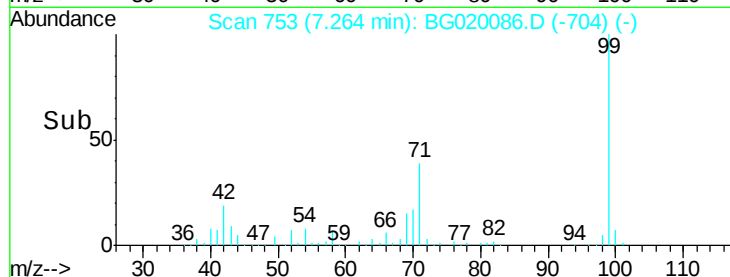
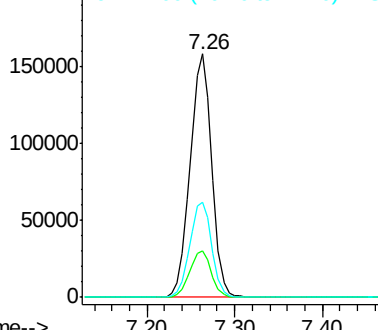
99 100

42 19.2 11.5 17.3#

71 39.2 22.6 34.0#



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: 2.16 ng

RT: 7.29 min Scan# 757

Delta R.T. -0.01 min

Lab File: BG020086.D

Acq: 10 Dec 2015 21:51

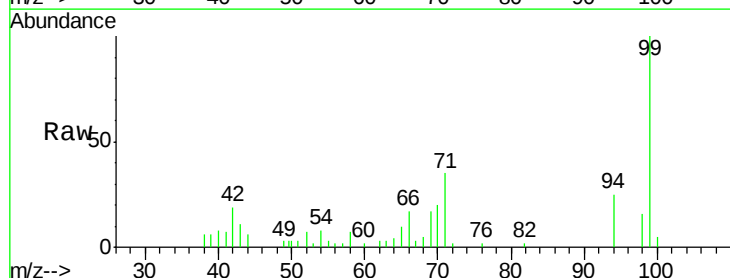
Tgt Ion: 94 Resp: 3973

Ion Ratio Lower Upper

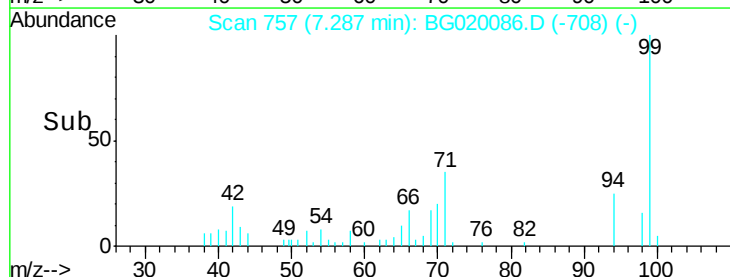
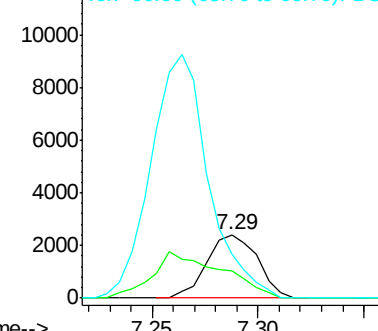
94 100

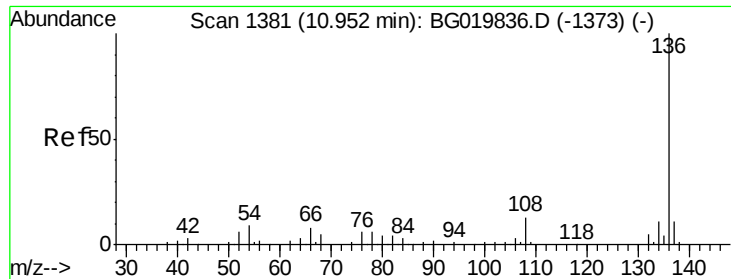
65 42.3 5.4 45.4

66 68.6 11.8 51.8#



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

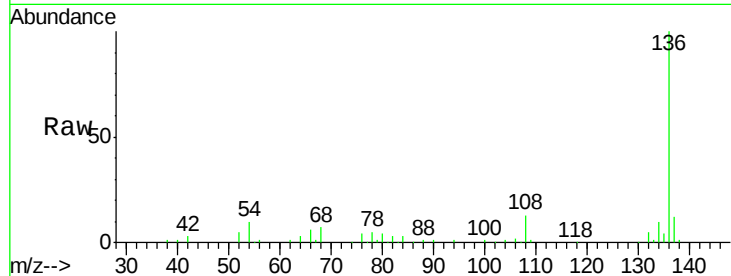




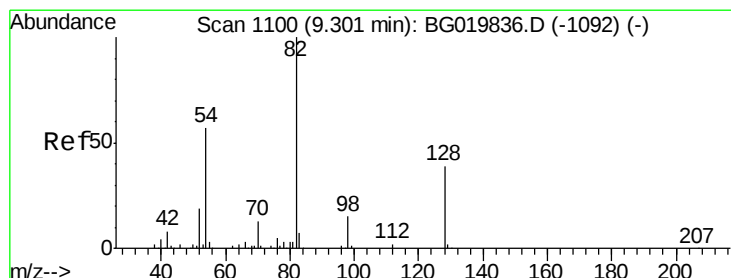
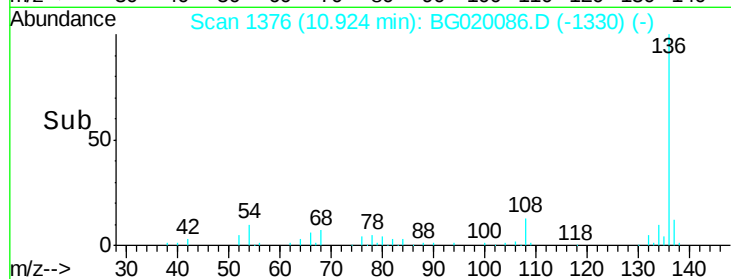
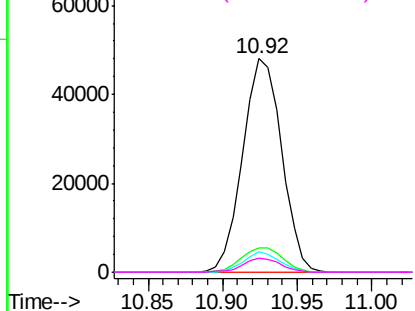
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.92 min Scan# 1376
Delta R.T. -0.03 min
Lab File: BG020086.D
Acq: 10 Dec 2015 21:51

Instrument :
BNA_F
ClientSampleId :
S1-14.5

Tgt Ion:	136	Resp:	86736
Ion	Ratio	Lower	Upper
136	100		
137	11.6	8.6	12.8
54	9.7	5.4	8.2#
68	6.6	5.3	7.9

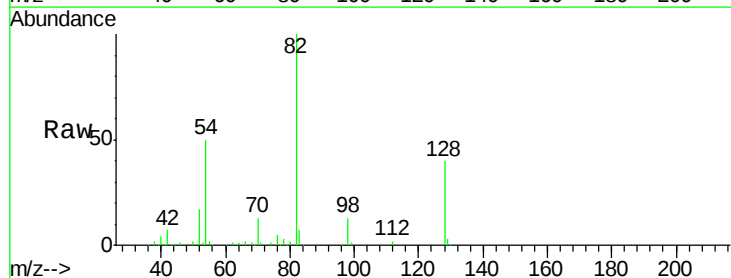


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

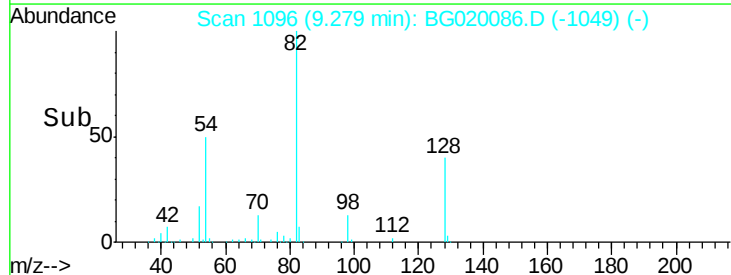
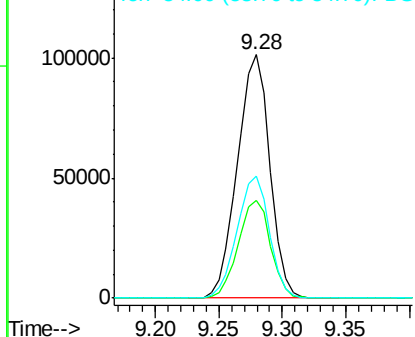


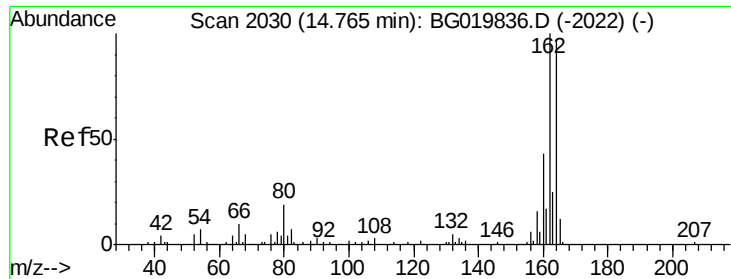
#23
Nitrobenzene-d5
Concen: 105.89 ng
RT: 9.28 min Scan# 1096
Delta R.T. -0.02 min
Lab File: BG020086.D
Acq: 10 Dec 2015 21:51

Tgt Ion:	82	Resp:	179956
Ion	Ratio	Lower	Upper
82	100		
128	40.0	36.7	55.1
54	50.0	33.8	50.8



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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.74 min Scan# 2025

Delta R.T. -0.03 min

Lab File: BG020086.D

Acq: 10 Dec 2015 21:51

Instrument :

BNA_F

ClientSampleId :

S1-14.5

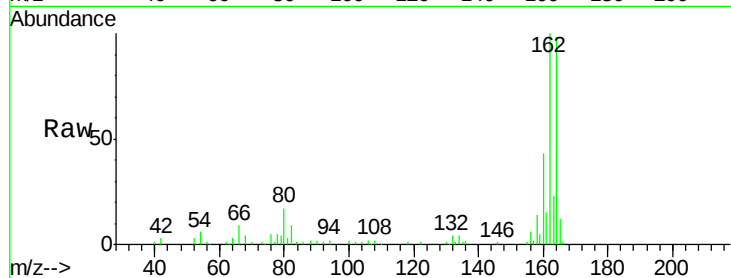
Tgt Ion:164 Resp: 59703

Ion Ratio Lower Upper

164 100

162 102.2 78.8 118.2

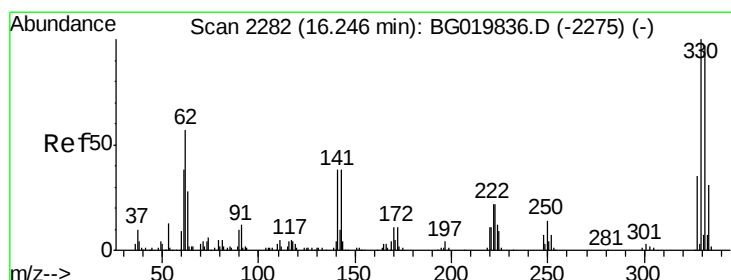
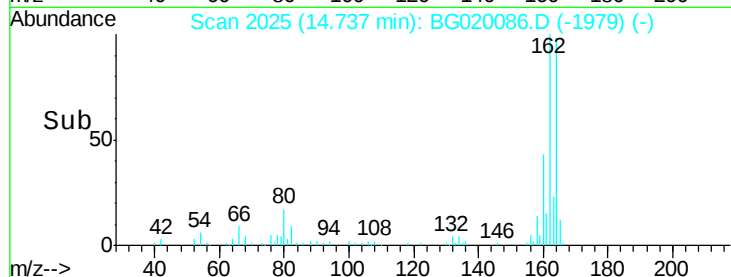
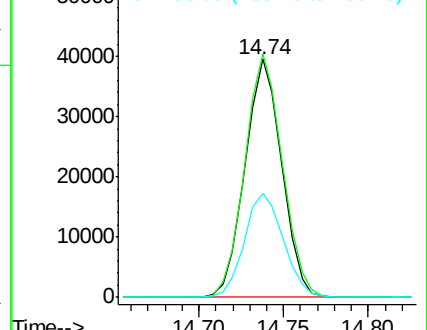
160 43.8 36.4 54.6



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: 149.55 ng

RT: 16.22 min Scan# 2278

Delta R.T. -0.02 min

Lab File: BG020086.D

Acq: 10 Dec 2015 21:51

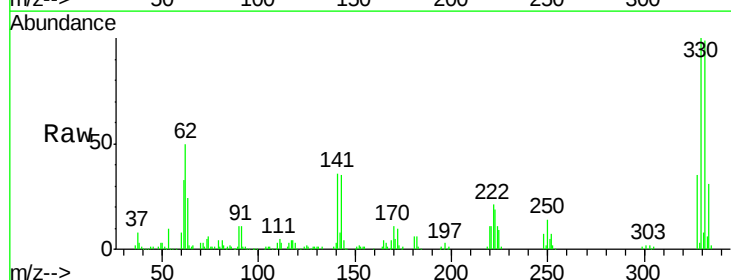
Tgt Ion:330 Resp: 136611

Ion Ratio Lower Upper

330 100

332 95.8 78.1 117.1

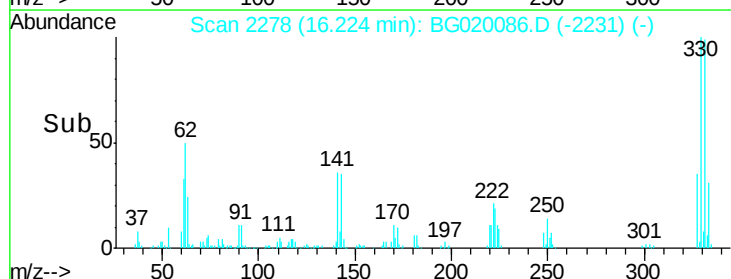
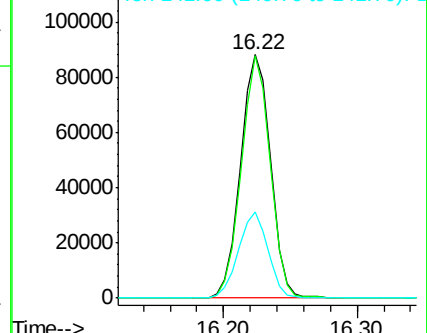
141 35.0 28.2 42.2

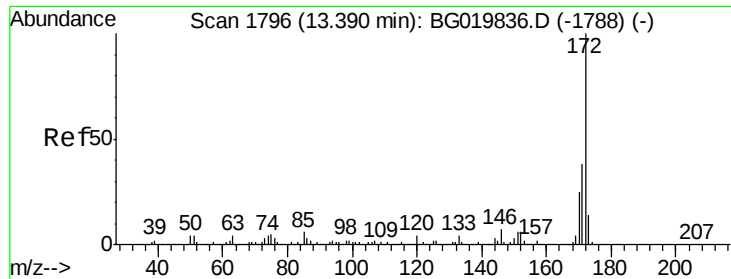


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

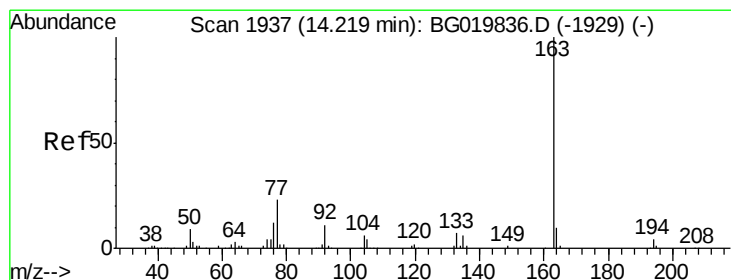
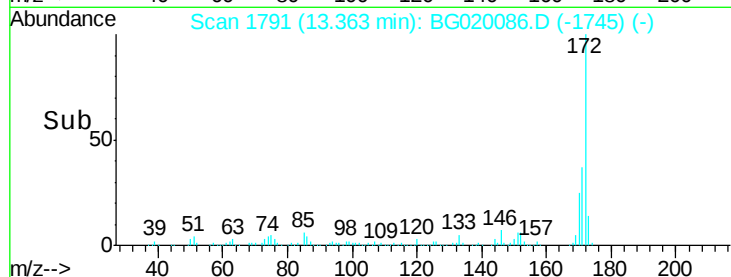
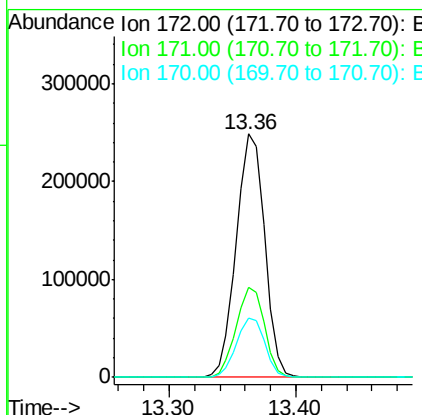
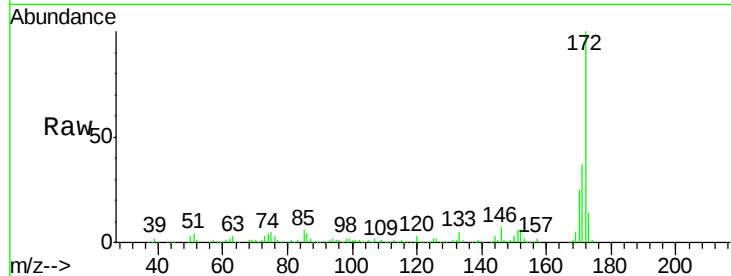




#44
2-Fluorobiphenyl
Concen: 88.26 ng
RT: 13.36 min Scan# 1791
Delta R.T. -0.03 min
Lab File: BG020086.D
Acq: 10 Dec 2015 21:51

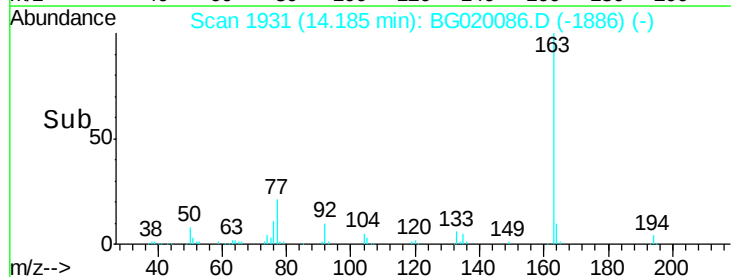
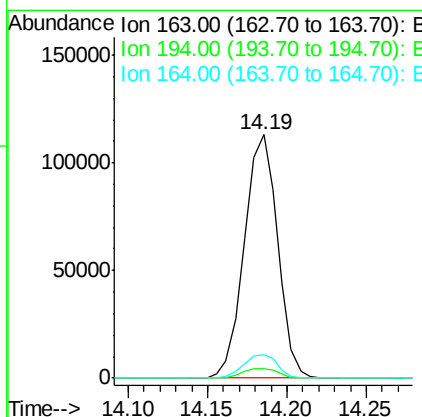
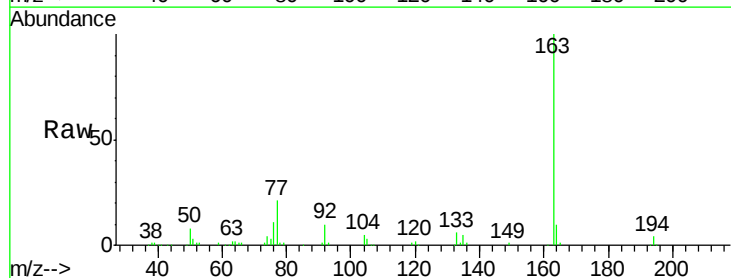
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BNA_F
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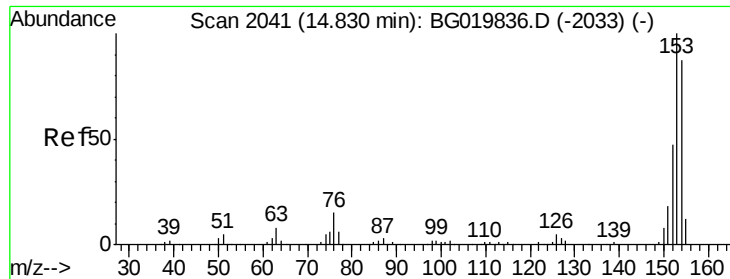
Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.0	29.0	43.6
170	24.5	19.9	29.9



#49
Dimethylphthalate
Concen: 30.69 ng
RT: 14.19 min Scan# 1931
Delta R.T. -0.03 min
Lab File: BG020086.D
Acq: 10 Dec 2015 21:51

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.1	4.7
164	9.5	8.8	13.2





#51

Acenaphthene

Concen: 3.16 ng

RT: 14.80 min Scan# 2036

Delta R.T. -0.03 min

Lab File: BG020086.D

Acq: 10 Dec 2015 21:51

Instrument :

BNA_F

ClientSampleId :

S1-14.5

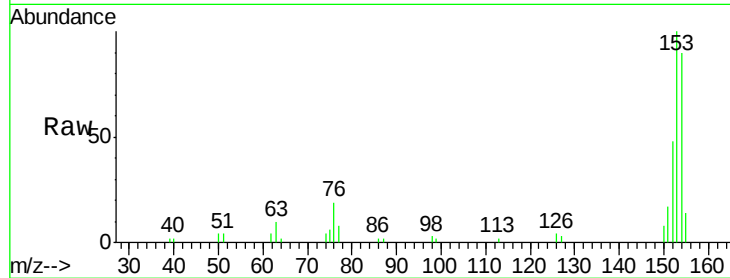
Tgt Ion:154 Resp: 12331

Ion Ratio Lower Upper

154 100

153 111.0 92.9 139.3

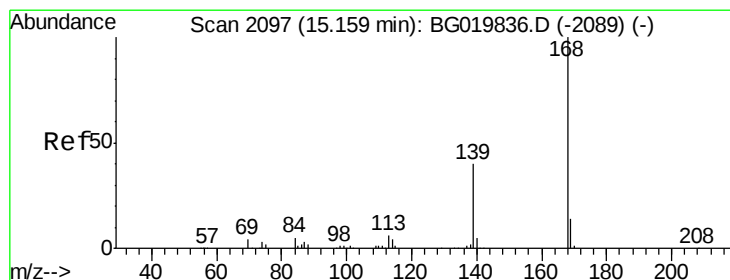
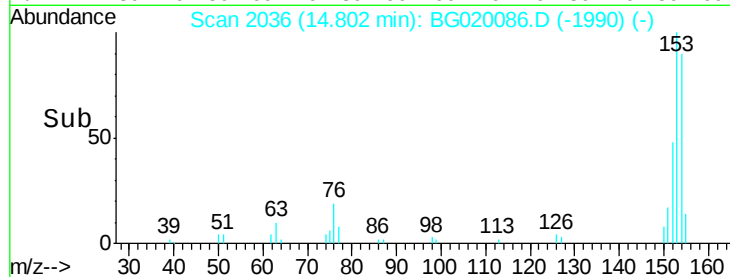
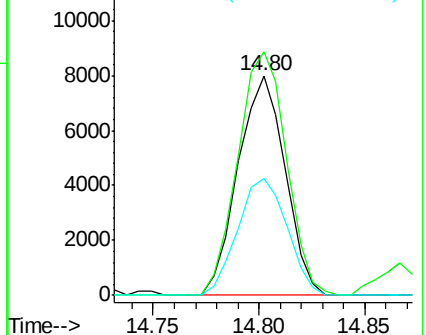
152 53.5 45.8 68.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.46 ng

RT: 15.13 min Scan# 2092

Delta R.T. -0.03 min

Lab File: BG020086.D

Acq: 10 Dec 2015 21:51

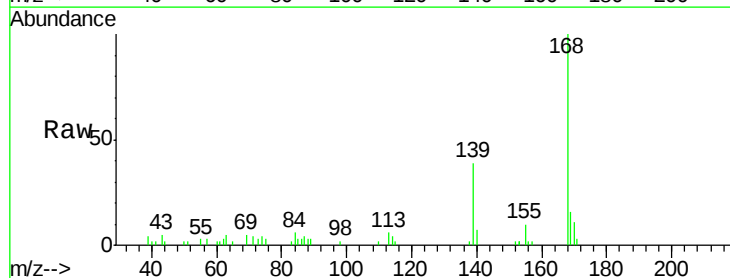
Tgt Ion:168 Resp: 14261

Ion Ratio Lower Upper

168 100

139 39.3 27.4 41.0

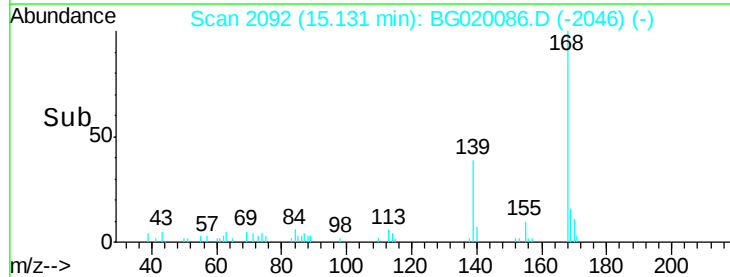
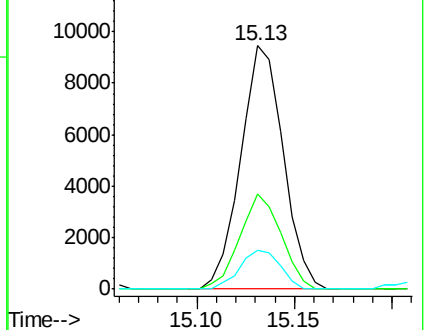
169 16.1 11.0 16.4

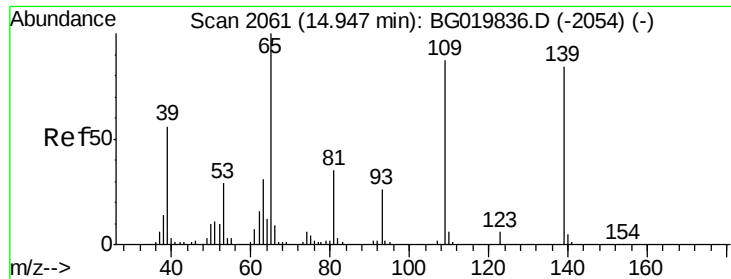


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

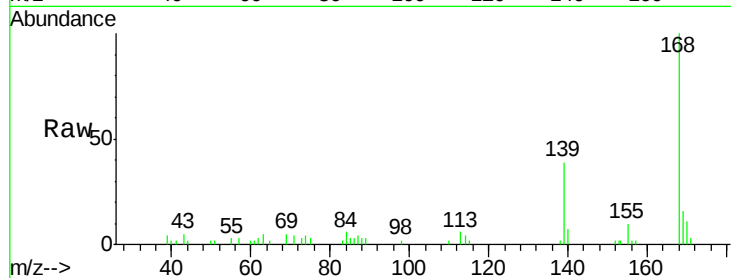




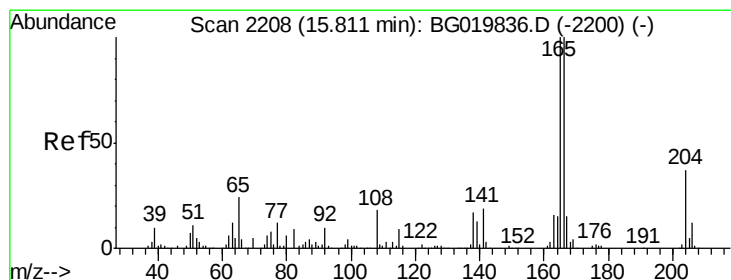
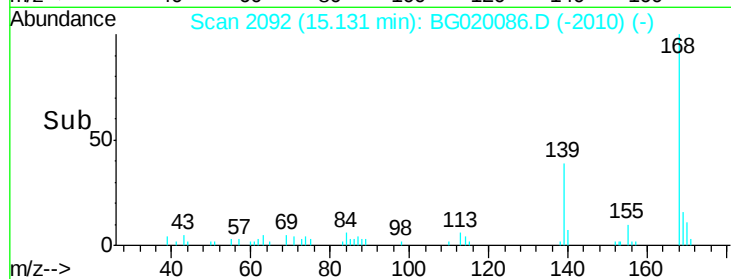
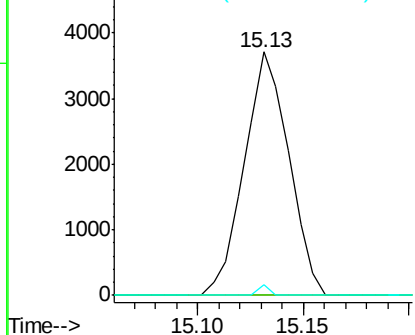
#55
4-Nitrophenol
Concen: 5.93 ng
RT: 15.13 min Scan# 2092
Delta R.T. 0.18 min
Lab File: BG020086.D
Acq: 10 Dec 2015 21:51

Instrument :
BNA_F
ClientSampleId :
S1-14.5

Tgt Ion:139 Resp: 5421
Ion Ratio Lower Upper
139 100
109 0.0 43.2 83.2#
65 4.5 67.8 107.8#

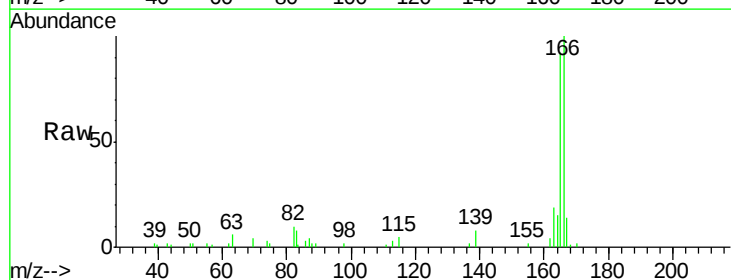


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BGC

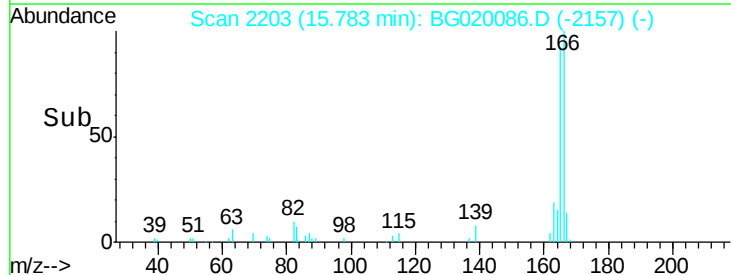
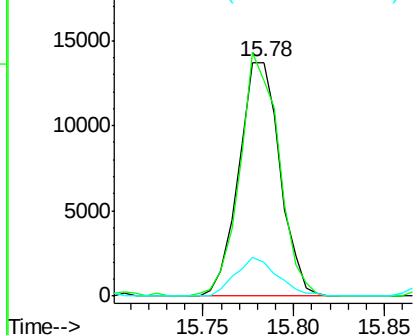


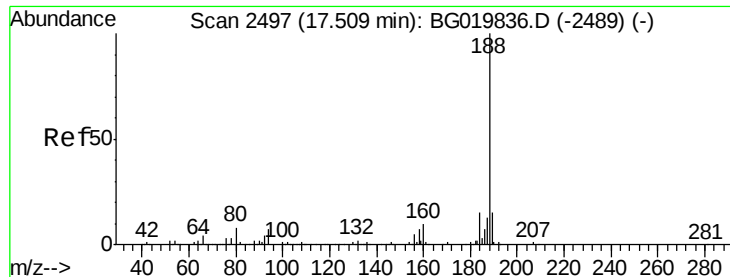
#57
Fluorene
Concen: 4.17 ng
RT: 15.78 min Scan# 2203
Delta R.T. -0.03 min
Lab File: BG020086.D
Acq: 10 Dec 2015 21:51

Tgt Ion:166 Resp: 21661
Ion Ratio Lower Upper
166 100
165 92.0 80.0 120.0
167 14.3 11.1 16.7



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

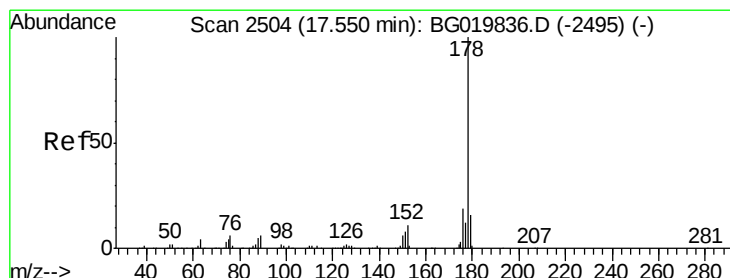
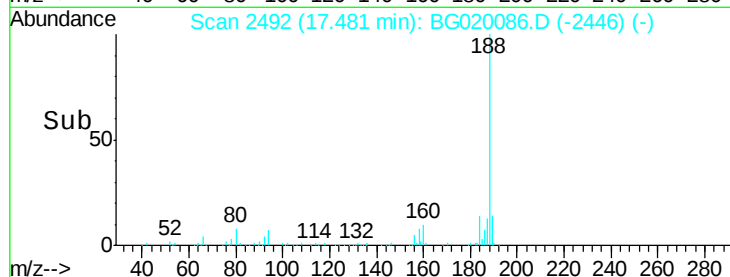
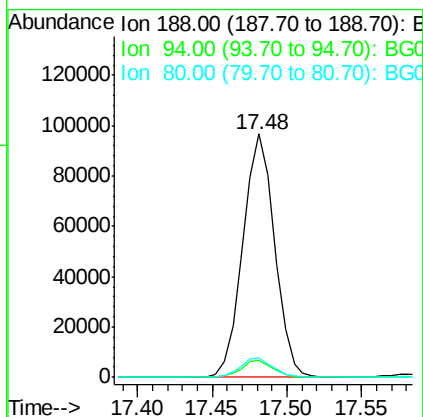
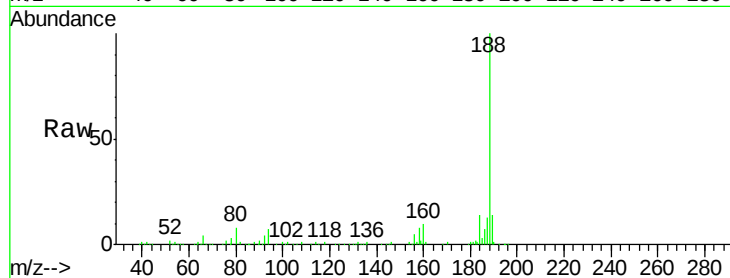




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 17.48 min Scan# 2492
 Delta R.T. -0.03 min
 Lab File: BG020086.D
 Acq: 10 Dec 2015 21:51

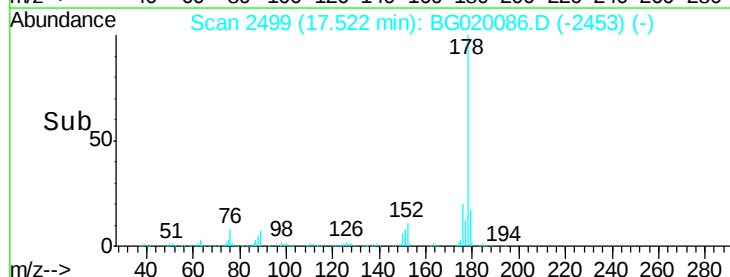
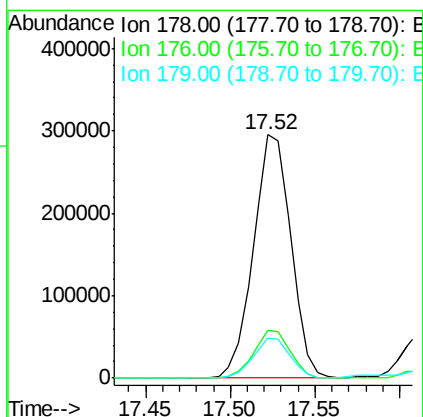
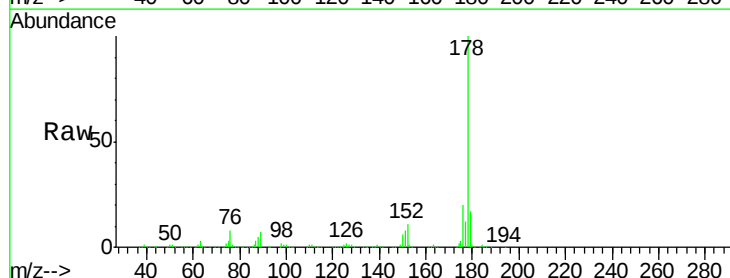
Instrument :
 BNA_F
 ClientSampleId :
 S1-14.5

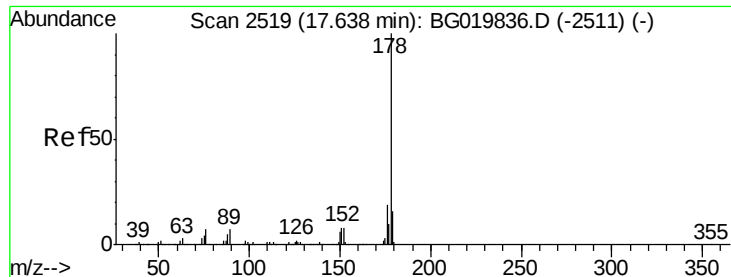
Tgt Ion:188 Resp: 142017
 Ion Ratio Lower Upper
 188 100
 94 6.8 7.7 11.5#
 80 7.9 7.8 11.8



#70
 Phenanthrene
 Concen: 56.71 ng
 RT: 17.52 min Scan# 2499
 Delta R.T. -0.03 min
 Lab File: BG020086.D
 Acq: 10 Dec 2015 21:51

Tgt Ion:178 Resp: 455675
 Ion Ratio Lower Upper
 178 100
 176 19.6 16.7 25.1
 179 16.6 13.9 20.9

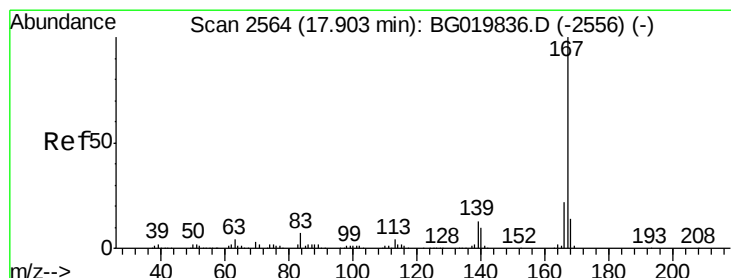
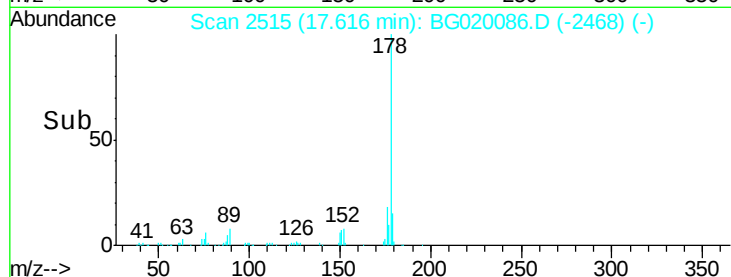
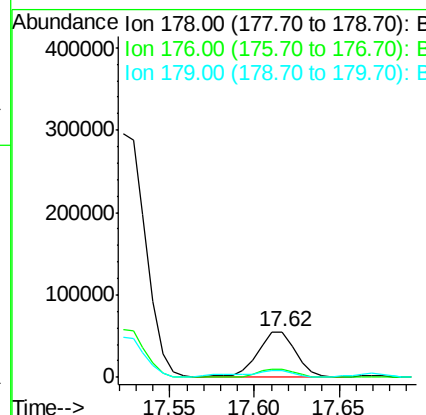
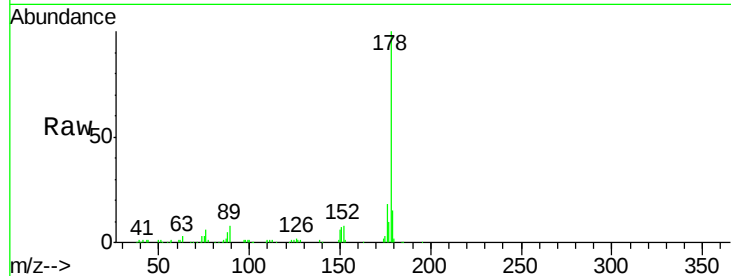




#71
 Anthracene
 Concen: 10.48 ng
 RT: 17.62 min Scan# 2515
 Delta R.T. -0.02 min
 Lab File: BG020086.D
 Acq: 10 Dec 2015 21:51

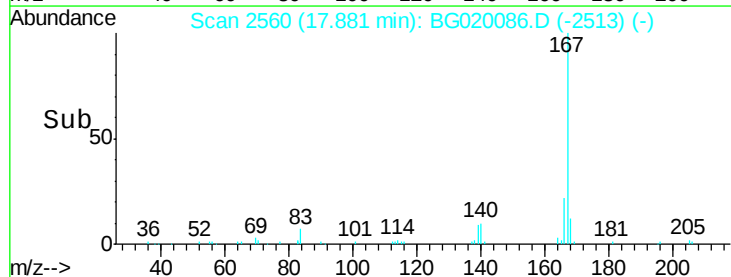
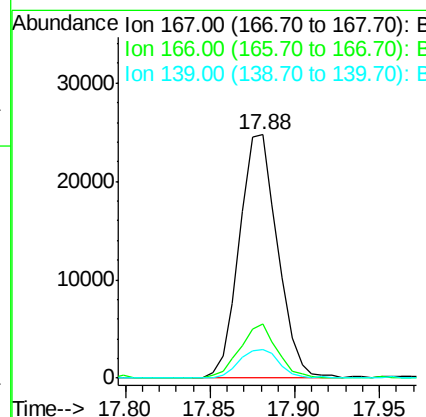
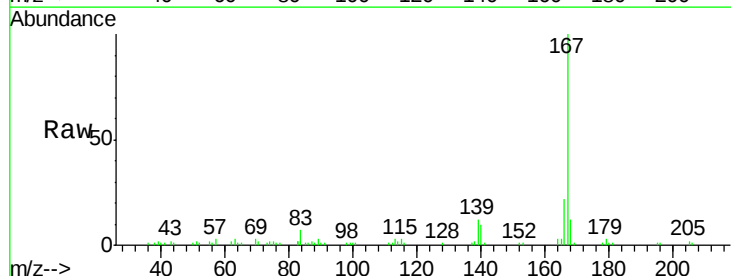
Instrument :
 BNA_F
 ClientSampleId :
 S1-14.5

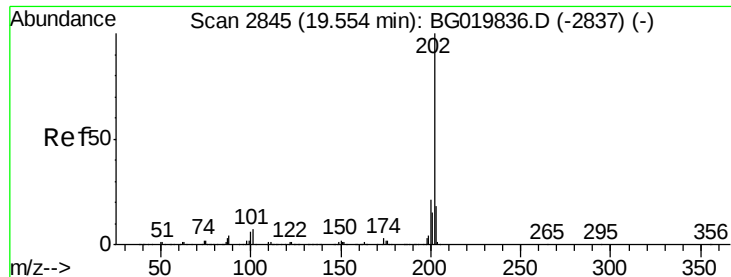
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	16.8	25.2
179	15.4	13.9	20.9



#72
 Carbazole
 Concen: 5.43 ng
 RT: 17.88 min Scan# 2560
 Delta R.T. -0.02 min
 Lab File: BG020086.D
 Acq: 10 Dec 2015 21:51

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.4	19.0	28.6
139	11.9	10.2	15.4





#74

Fluoranthene

Concen: 59.58 ng

RT: 19.53 min Scan# 2841

Delta R.T. -0.02 min

Lab File: BG020086.D

Acq: 10 Dec 2015 21:51

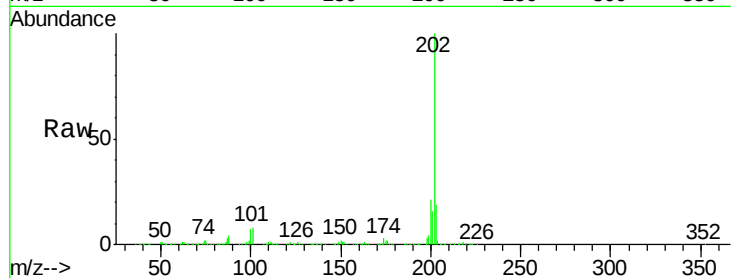
Instrument :

BNA_F

ClientSampled :

S1-14.5

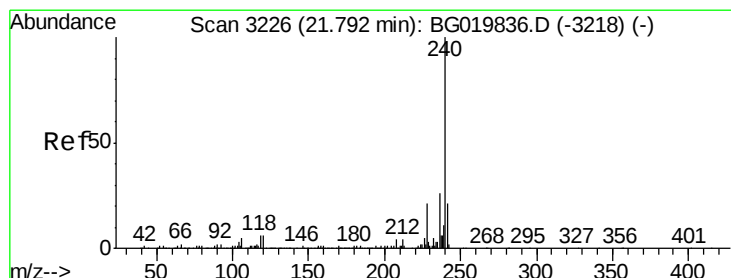
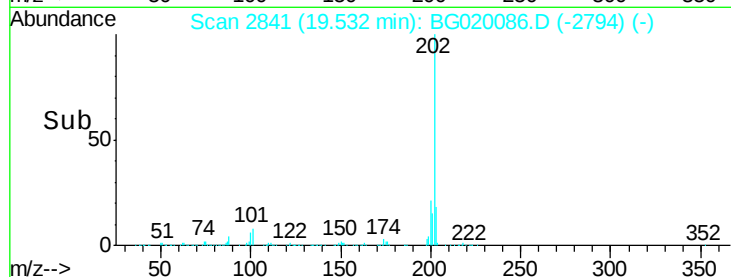
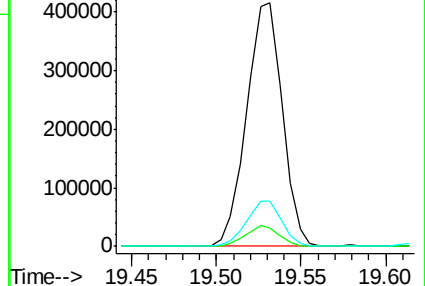
Tgt Ion:	202	Resp:	612378
Ion	Ratio	Lower	Upper
202	100		
101	7.7	0.0	32.4
203	18.7	0.0	39.5



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

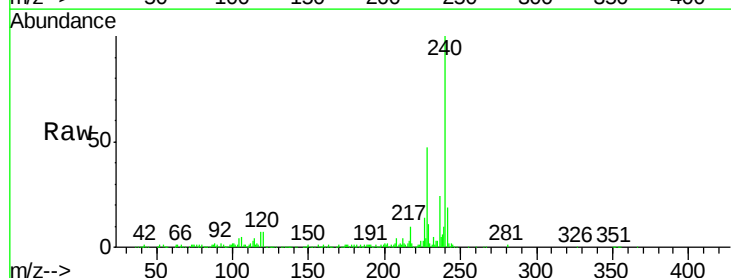
RT: 21.75 min Scan# 3219

Delta R.T. -0.04 min

Lab File: BG020086.D

Acq: 10 Dec 2015 21:51

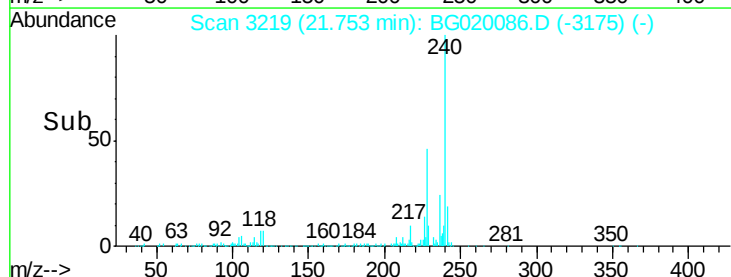
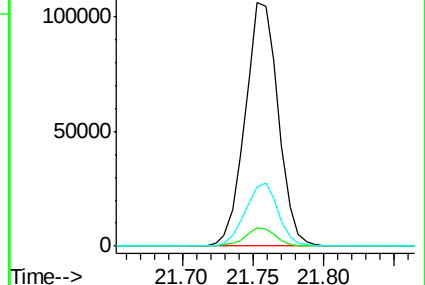
Tgt Ion:	240	Resp:	175243
Ion	Ratio	Lower	Upper
240	100		
120	7.4	7.4	11.0
236	24.5	20.7	31.1

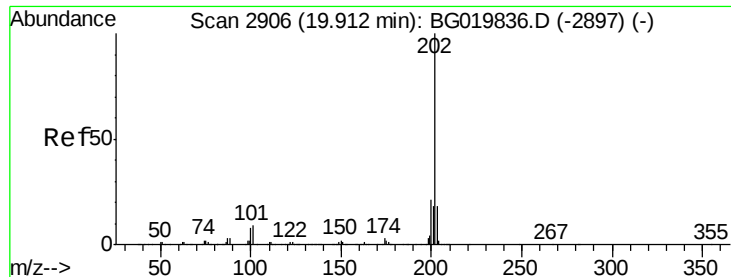


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 53.24 ng

RT: 19.89 min Scan# 2902

Delta R.T. -0.02 min

Lab File: BG020086.D

Acq: 10 Dec 2015 21:51

Instrument :

BNA_F

ClientSampleId :

S1-14.5

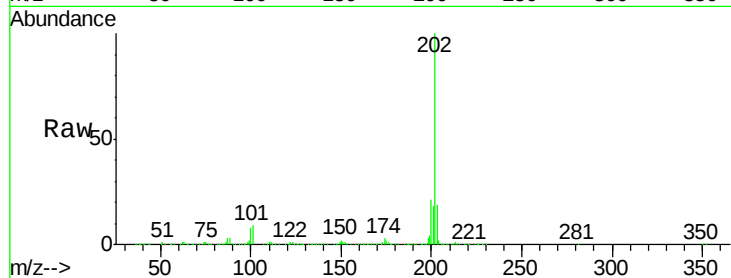
Tgt Ion:202 Resp: 548894

Ion Ratio Lower Upper

202 100

200 21.1 19.4 29.0

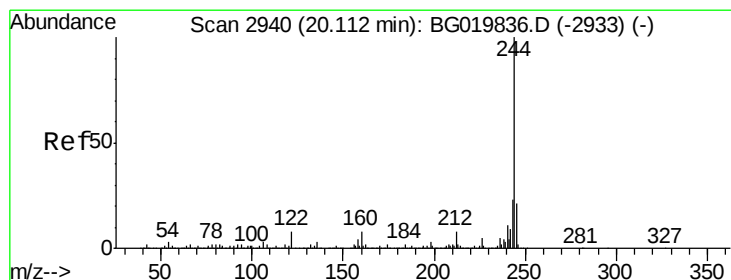
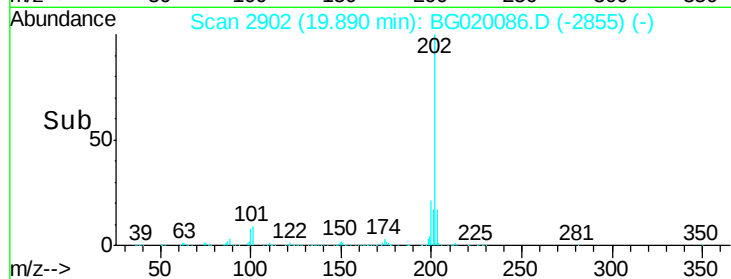
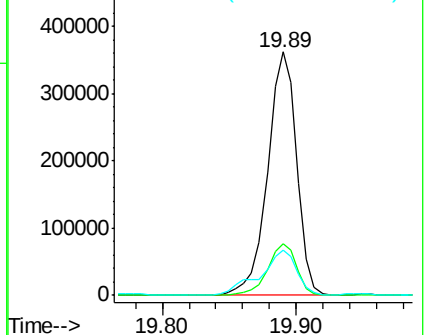
203 18.7 15.5 23.3



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: 85.24 ng

RT: 20.08 min Scan# 2935

Delta R.T. -0.03 min

Lab File: BG020086.D

Acq: 10 Dec 2015 21:51

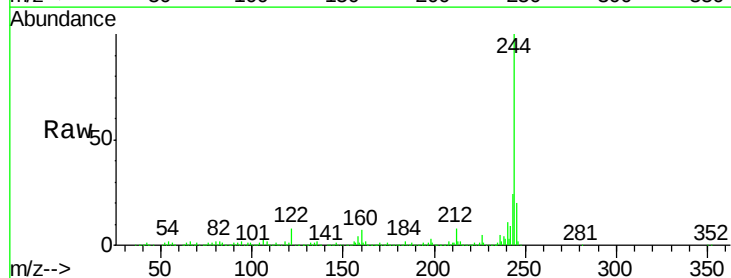
Tgt Ion:244 Resp: 612404

Ion Ratio Lower Upper

244 100

212 8.2 6.9 10.3

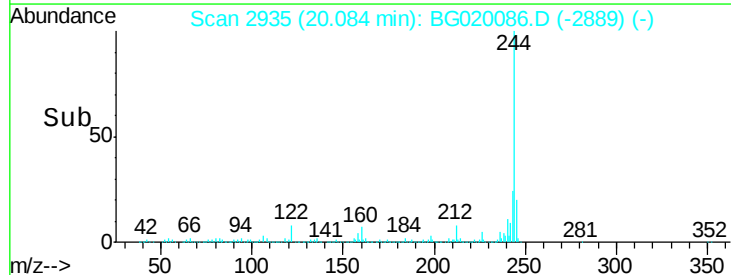
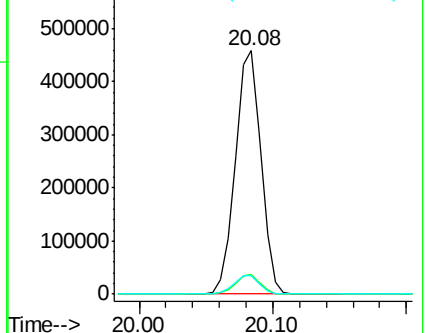
122 7.5 10.2 15.2#

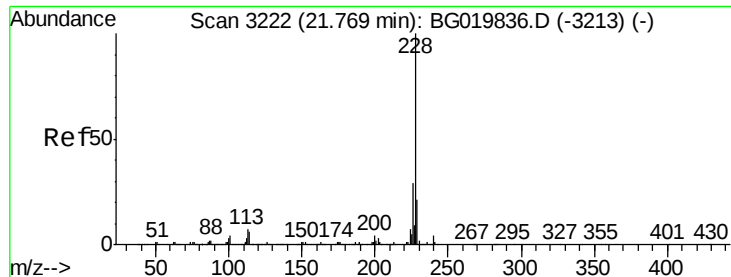


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 26.31 ng

RT: 21.74 min Scan# 3216

Delta R.T. -0.03 min

Lab File: BG020086.D

Acq: 10 Dec 2015 21:51

Instrument :

BNA_F

ClientSampleId :

S1-14.5

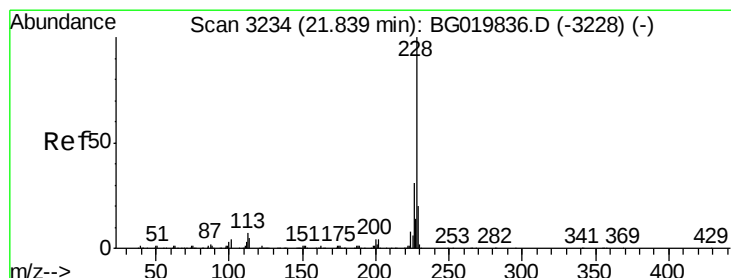
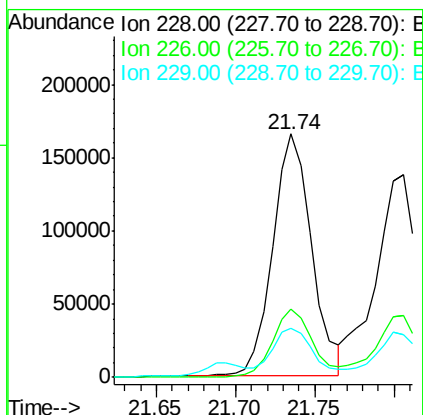
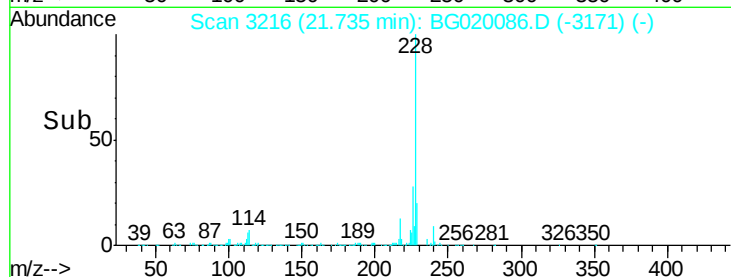
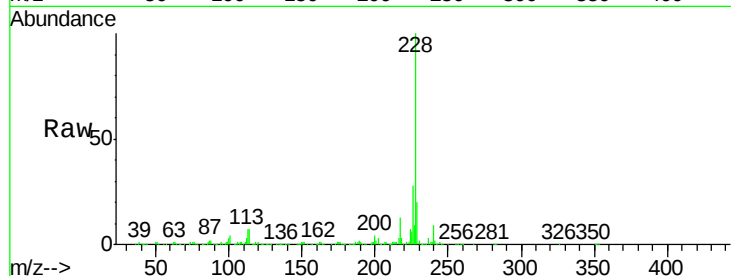
Tgt Ion:228 Resp: 282249

Ion Ratio Lower Upper

228 100

226 28.0 23.4 35.0

229 20.0 16.6 25.0



#82

Chrysene

Concen: 24.66 ng

RT: 21.81 min Scan# 3228

Delta R.T. -0.03 min

Lab File: BG020086.D

Acq: 10 Dec 2015 21:51

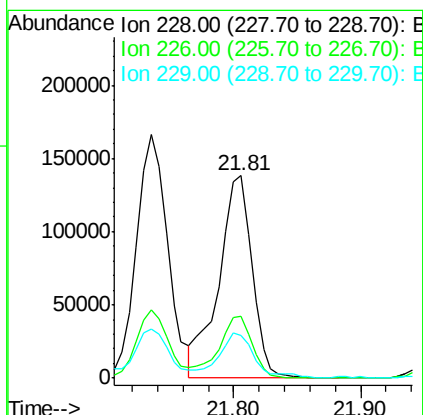
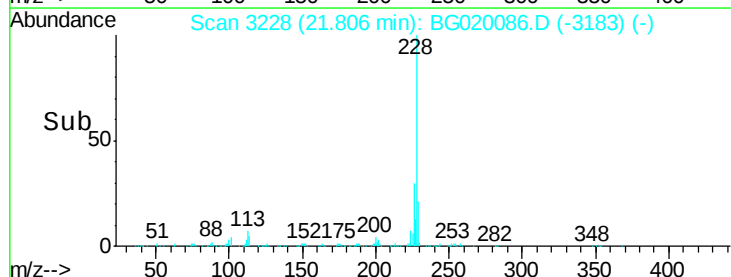
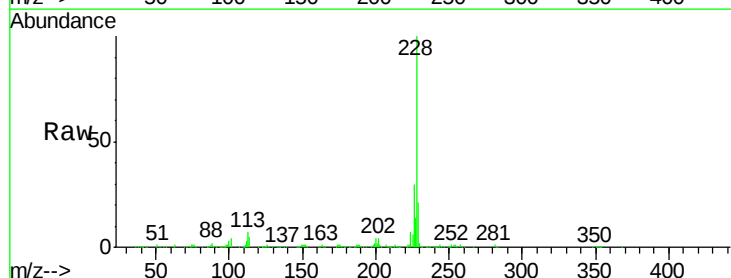
Tgt Ion:228 Resp: 251117

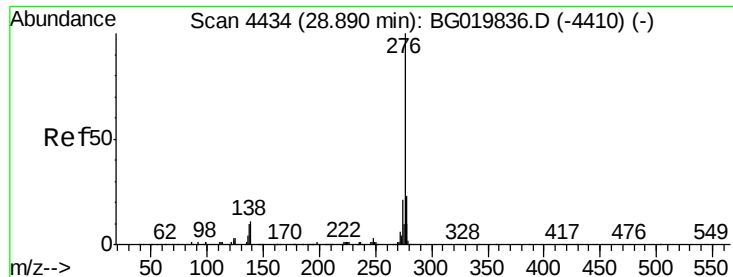
Ion Ratio Lower Upper

228 100

226 30.4 26.7 40.1

229 21.4 17.0 25.6

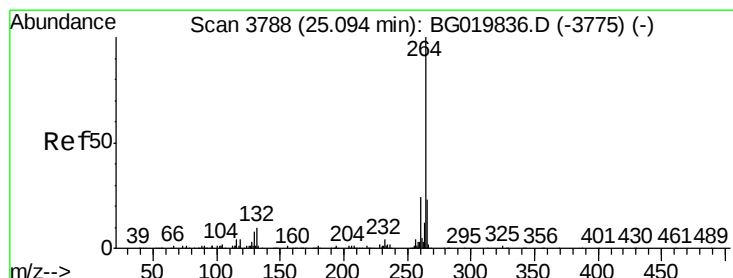
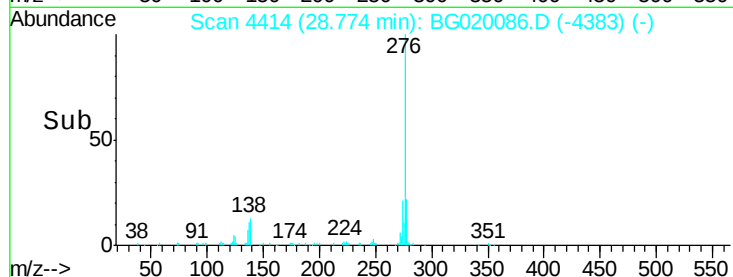
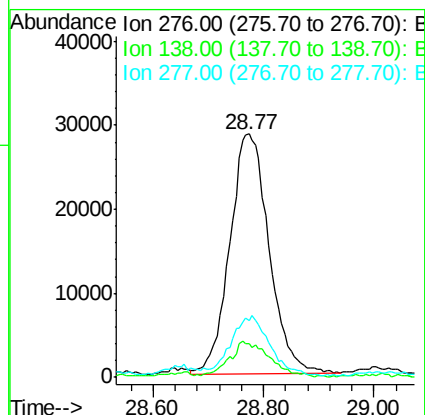
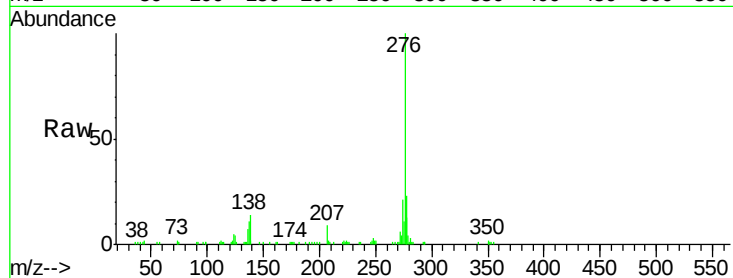




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 12.50 ng
 RT: 28.77 min Scan# 4414
 Delta R.T. -0.12 min
 Lab File: BG020086.D
 Acq: 10 Dec 2015 21:51

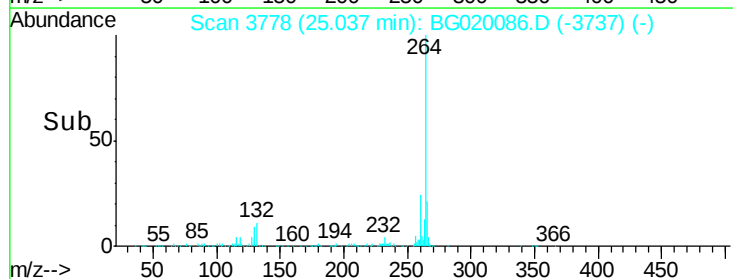
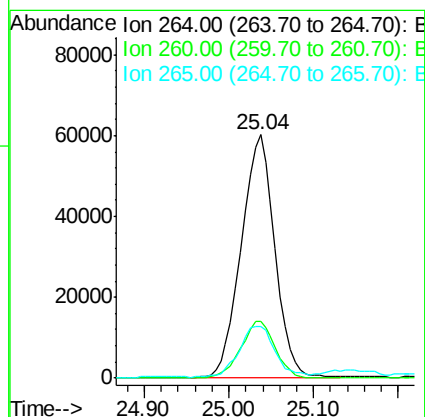
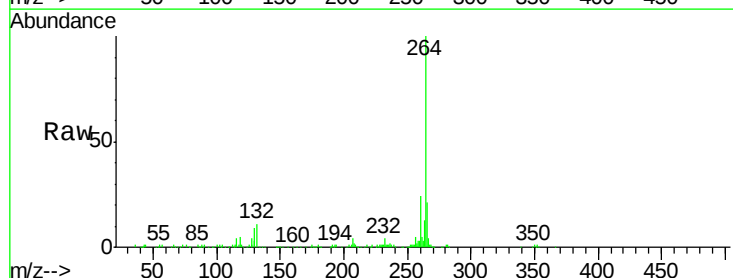
Instrument :
 BNA_F
 ClientSampleId :
 S1-14.5

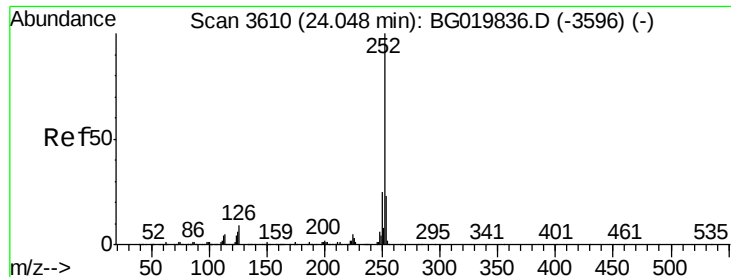
Tgt Ion	Ratio	Lower	Upper
276	100		
138	14.0	0.0	0.0#
277	24.5	0.0	0.0#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 25.04 min Scan# 3778
 Delta R.T. -0.06 min
 Lab File: BG020086.D
 Acq: 10 Dec 2015 21:51

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.5	27.7
265	21.2	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 3.32 ng

RT: 24.25 min Scan# 3644

Delta R.T. 0.20 min

Lab File: BG020086.D

Acq: 10 Dec 2015 21:51

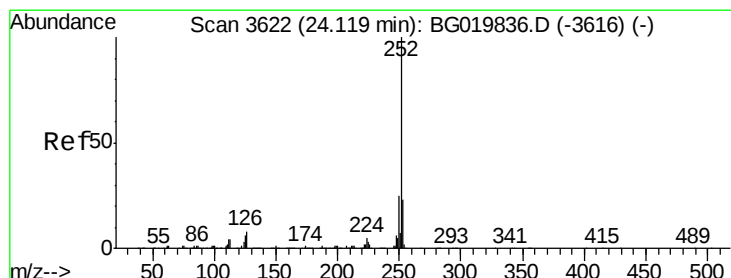
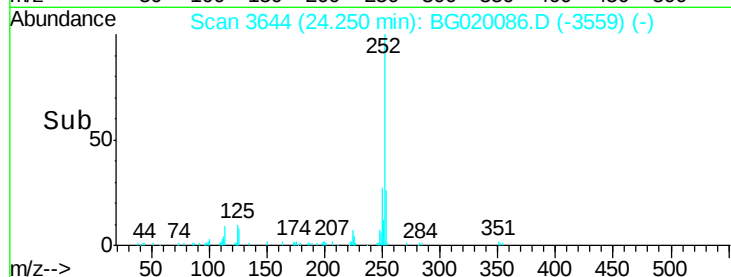
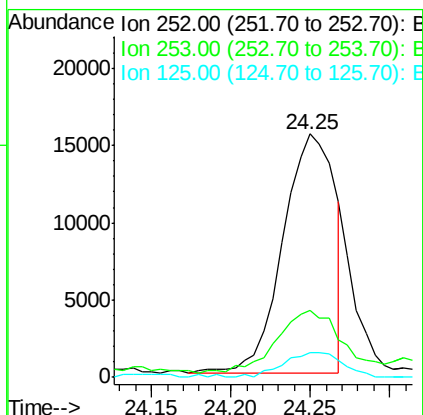
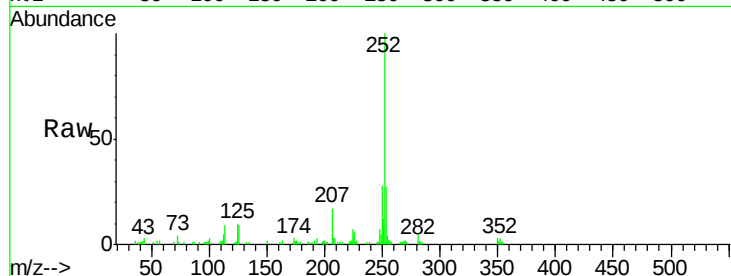
Instrument :

BNA_F

ClientSampleId :

S1-14.5

Tgt Ion:	252	Resp:	35092
Ion Ratio	Lower	Upper	
252	100		
253	27.4	19.1	28.7
125	10.1	8.9	13.3



#88

Benzo(k)fluoranthene

Concen: 3.92 ng

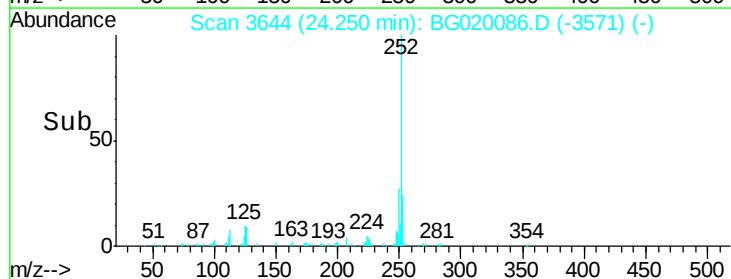
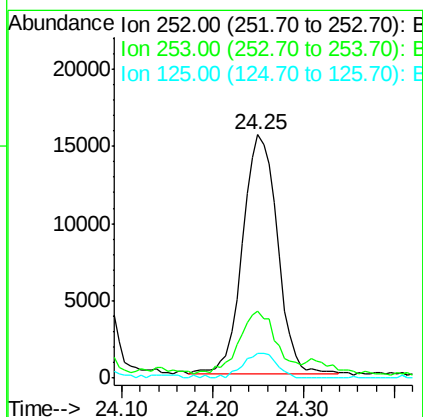
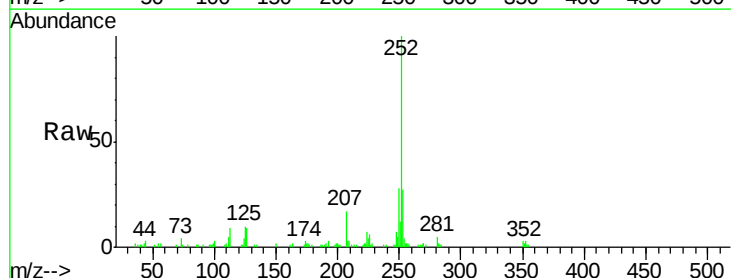
RT: 24.25 min Scan# 3644

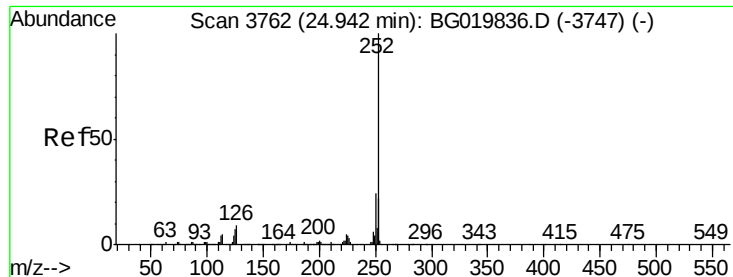
Delta R.T. 0.13 min

Lab File: BG020086.D

Acq: 10 Dec 2015 21:51

Tgt Ion:	252	Resp:	41116
Ion Ratio	Lower	Upper	
252	100		
253	27.4	19.0	28.4
125	10.1	8.9	13.3





#89

Benzo(a)pyrene

Concen: 14.01 ng

RT: 24.73 min Scan# 3726

Delta R.T. -0.21 min

Lab File: BG020086.D

Acq: 10 Dec 2015 21:51

Instrument :

BNA_F

ClientSampled :

S1-14.5

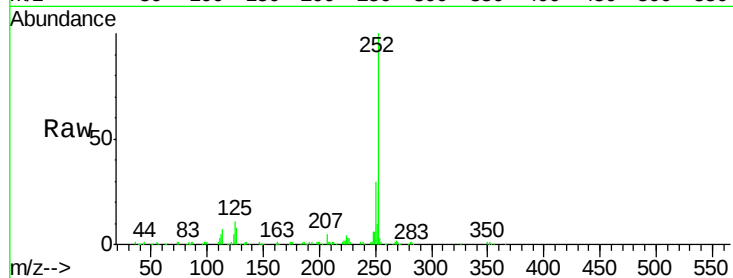
Tgt Ion:252 Resp: 140752

Ion Ratio Lower Upper

252 100

253 24.8 18.7 28.1

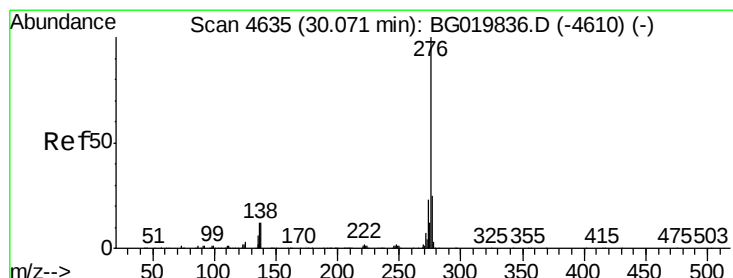
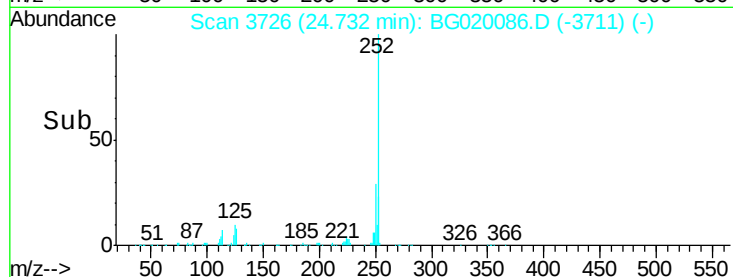
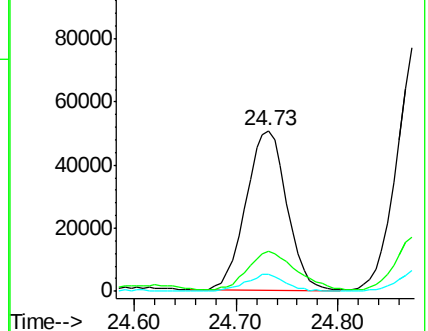
125 10.7 9.1 13.7



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 13.63 ng

RT: 29.94 min Scan# 4613

Delta R.T. -0.13 min

Lab File: BG020086.D

Acq: 10 Dec 2015 21:51

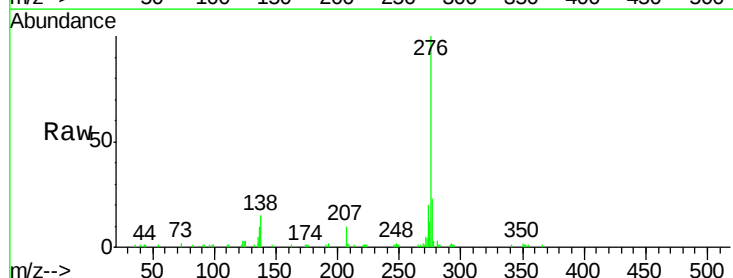
Tgt Ion:276 Resp: 132758

Ion Ratio Lower Upper

276 100

277 23.0 18.4 27.6

138 14.8 17.4 26.0#



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

