

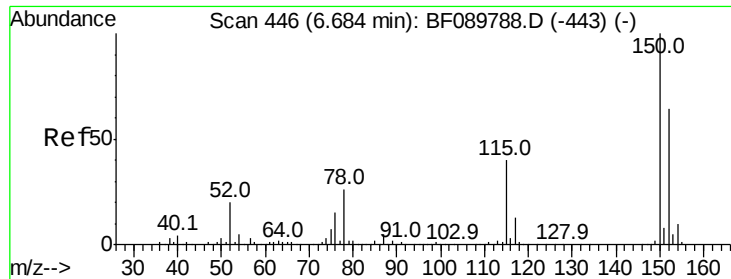
Data Path : Z:\HPCHEM1\BNA F\DATA\BF082416\
 Data File : BF089899.D
 Acq On : 25 Aug 2016 3:46
 Operator : UM/SJ
 Sample : H4576-08
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-21B-GW

Quant Time: Aug 25 17:13:54 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 19 14:02:57 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	400223	20.00	ng	-0.01
21) Naphthalene-d8	7.96	136	943380	20.00	ng	-0.01
38) Acenaphthene-d10	9.74	164	356211	20.00	ng	0.02
63) Phenanthrene-d10	11.22	188	783247	20.00	ng	0.03
75) Chrysene-d12	13.84	240	877736	20.00	ng	-0.03
86) Perylene-d12	15.28	264	888320	20.00	ng	-0.09
System Monitoring Compounds						
5) 2-Fluorophenol	5.24	112	1656464	70.98	ng	-0.01
7) Phenol-d6	6.31	99	1373184	47.93	ng	-0.01
23) Nitrobenzene-d5	7.24	82	2149449	141.55	ng	-0.01
41) 2,4,6-Tribromophenol	10.54	330	494146	145.97	ng	0.03
44) 2-Fluorobiphenyl	9.06	172	2446901	120.73	ng	0.01
78) Terphenyl-d14	12.80	244	2314422	59.65	ng	0.01
Target Compounds						
31) Naphthalene	8.00	128	4735822	107.41	ng	# 95
37) 2-Methylnaphthalene	8.71	142	6337344	222.18	ng	# 92
45) 1,1'-Biphenyl	9.16	154	1629740	59.12	ng	# 94
49) Dimethylphthalate	9.46	163	178120	7.10	ng	# 57
51) Acenaphthene	9.77	154	711813	32.85	ng	# 90
54) Dibenzofuran	9.94	168	409964	15.06	ng	# 46
57) Fluorene	10.30	166	1648017	75.98	ng	# 92
70) Phenanthrene	11.24	178	3974732	100.48	ng	# 94
72) Carbazole	11.45	167	382651	10.61	ng	# 43
74) Fluoranthene	12.42	202	238883	6.35	ng	# 68
77) Pyrene	12.64	202	1439687	20.14	ng	# 86

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.67 min Scan# 445

Delta R.T. -0.01 min

Lab File: BF089899.D

Acq: 25 Aug 2016 3:46

Instrument :

BNA_F

ClientSampleId :

SB-21B-GW

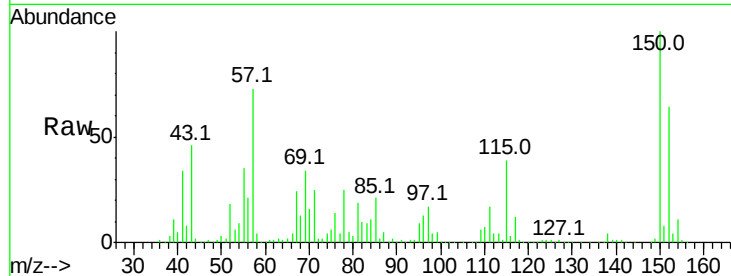
Tot Ion:152 Resp: 400223

Ion Ratio Lower Upper

152 100

150 156.9 125.3 187.9

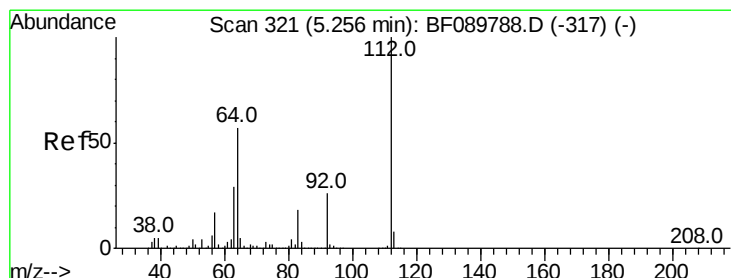
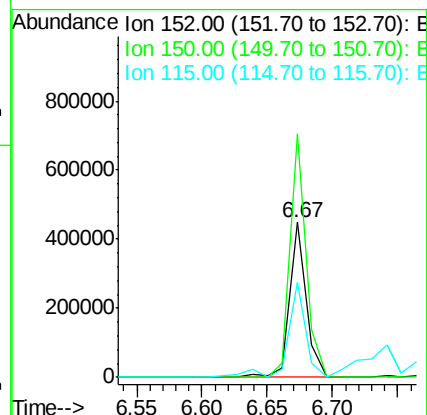
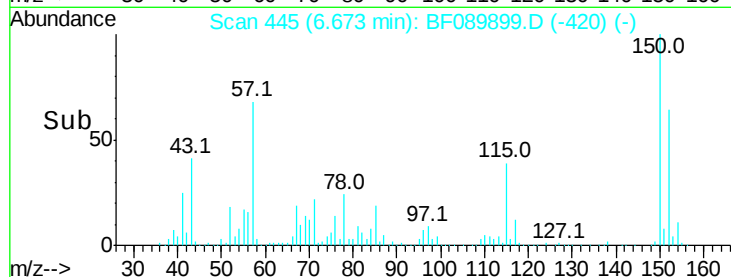
115 61.0 40.9 61.3



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: 70.98 ng

RT: 5.24 min Scan# 320

Delta R.T. -0.01 min

Lab File: BF089899.D

Acq: 25 Aug 2016 3:46

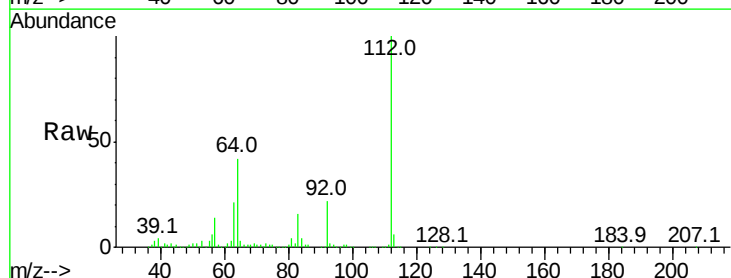
Tgt Ion:112 Resp: 1656464

Ion Ratio Lower Upper

112 100

64 42.4 45.0 67.4#

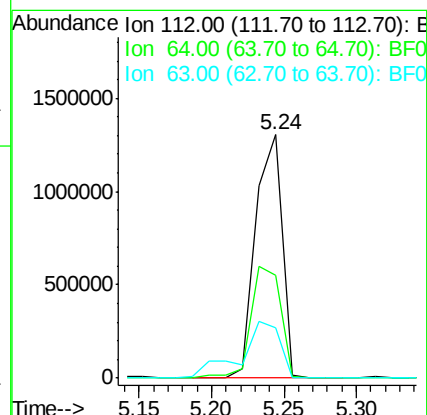
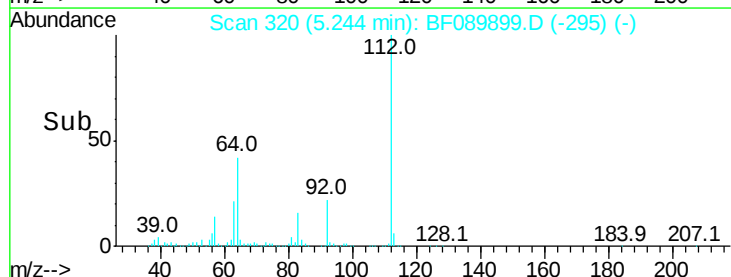
63 20.6 23.1 34.7#

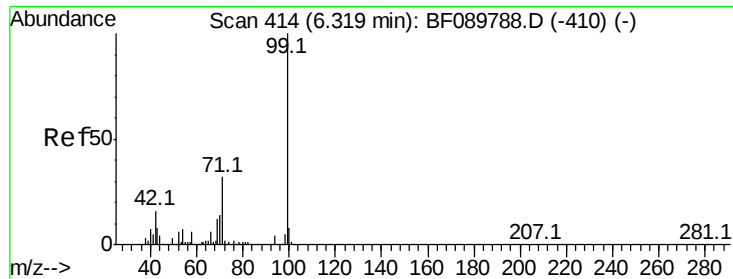


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 47.93 ng

RT: 6.31 min Scan# 413

Delta R.T. -0.01 min

Lab File: BF089899.D

Acq: 25 Aug 2016 3:46

Instrument :

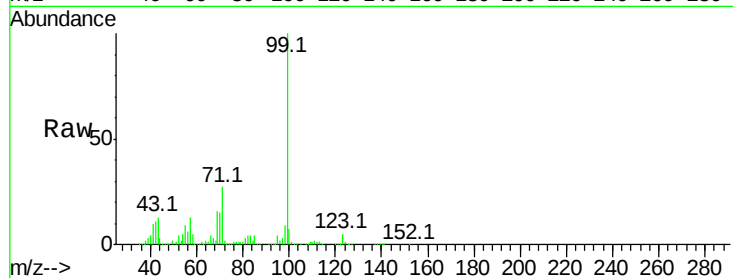
BNA_F

ClientSampleId :

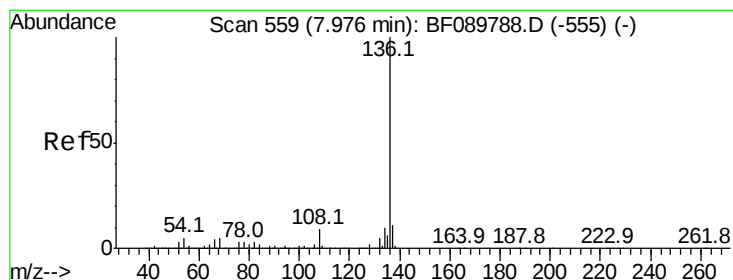
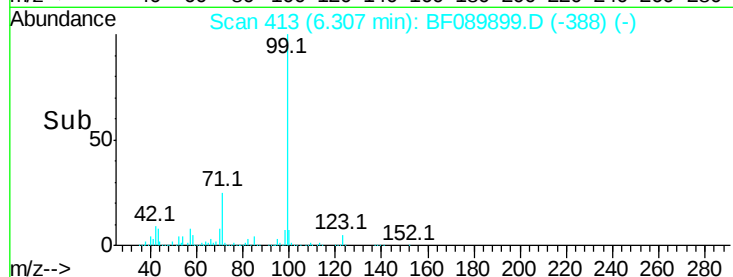
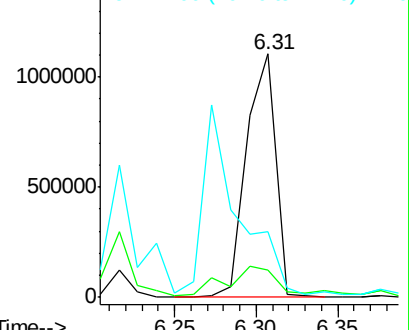
SB-21B-GW

Tot Ion: 99 Resp: 1373184

Ion	Ratio	Lower	Upper
99	100		
42	11.1	12.2	18.4#
71	26.9	23.8	35.8



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.96 min Scan# 558

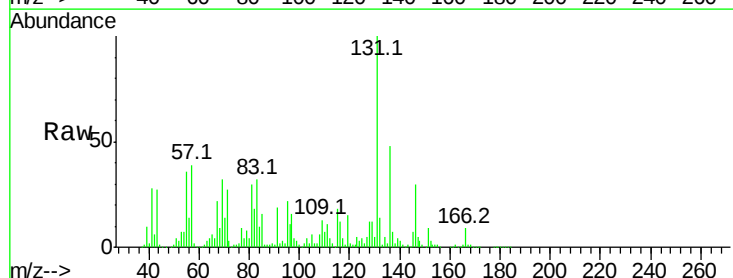
Delta R.T. -0.01 min

Lab File: BF089899.D

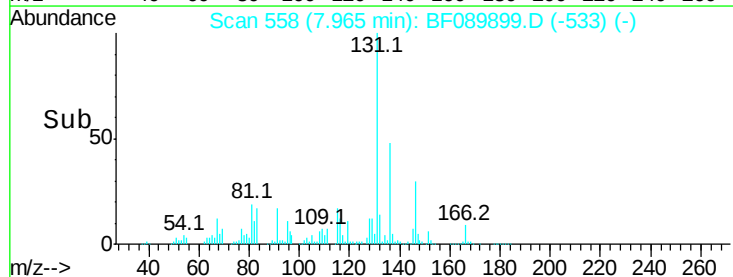
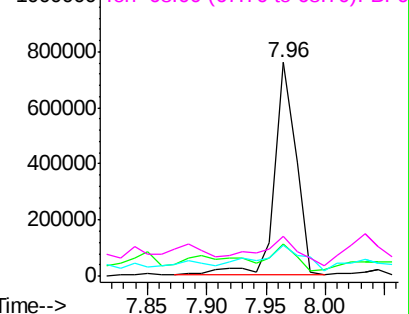
Acq: 25 Aug 2016 3:46

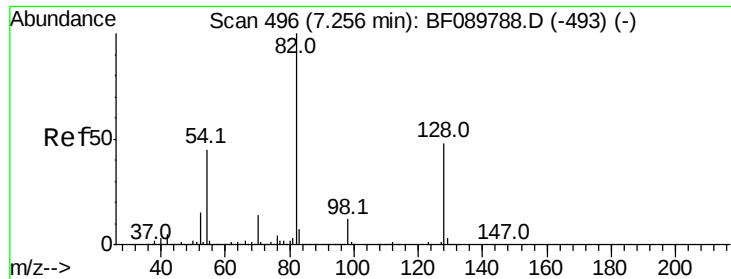
Tgt Ion: 136 Resp: 943380

Ion	Ratio	Lower	Upper
136	100		
137	15.2	9.2	13.8#
54	14.3	7.2	10.8#
68	18.3	5.8	8.8#



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): BF0
Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 141.55 ng

RT: 7.24 min Scan# 495

Delta R.T. -0.01 min

Lab File: BF089899.D

Acq: 25 Aug 2016 3:46

Instrument :

BNA_F

ClientSampleId :

SB-21B-GW

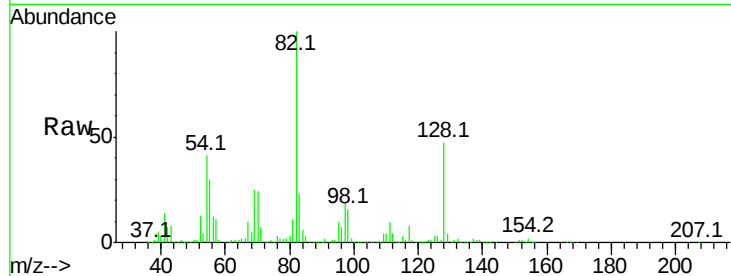
Tot Ion: 82 Resp: 2149449

Ion Ratio Lower Upper

82 100

128 47.1 34.4 51.6

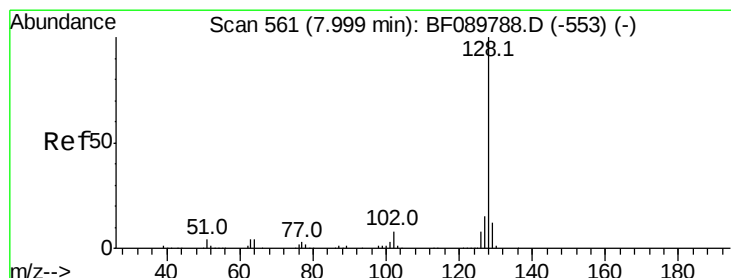
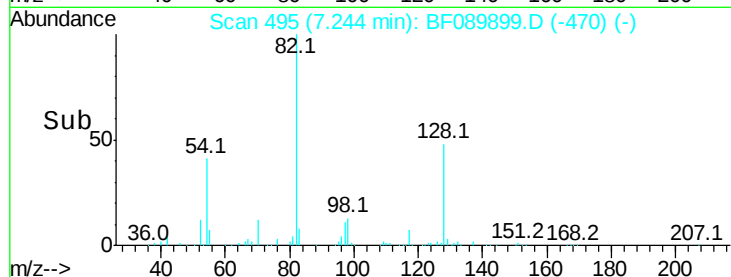
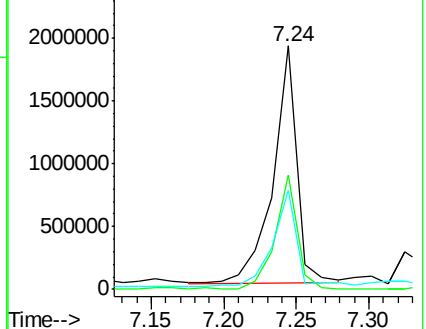
54 40.7 40.3 60.5



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#31

Naphthalene

Concen: 107.41 ng

RT: 8.00 min Scan# 561

Delta R.T. 0.00 min

Lab File: BF089899.D

Acq: 25 Aug 2016 3:46

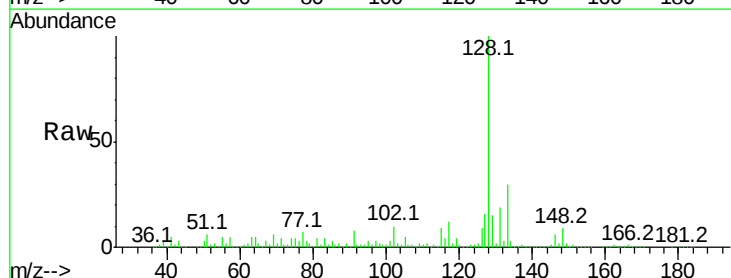
Tgt Ion:128 Resp: 4735822

Ion Ratio Lower Upper

128 100

129 14.8 9.5 14.3#

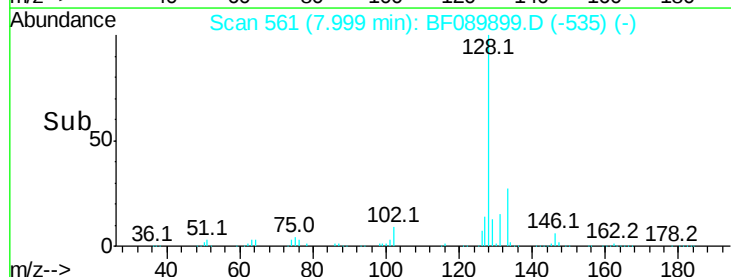
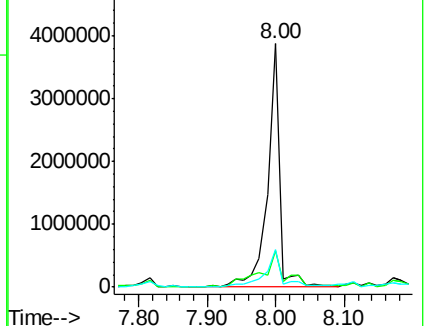
127 15.6 11.3 16.9

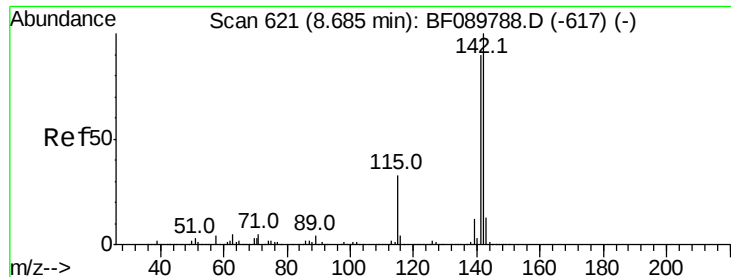


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#37

2-Methylnaphthalene

Concen: 222.18 ng

RT: 8.71 min Scan# 623

Delta R.T. 0.02 min

Lab File: BF089899.D

Acq: 25 Aug 2016 3:46

Instrument :

BNA_F

ClientSampleId :

SB-21B-GW

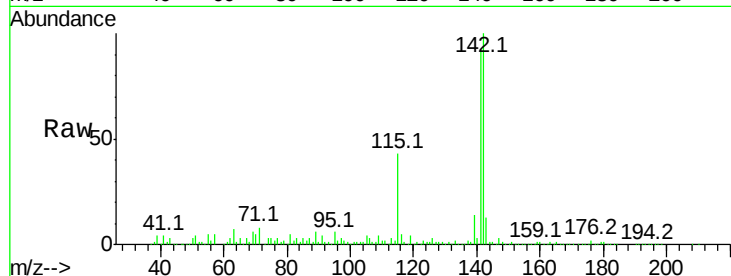
Tot Ion:142 Resp: 6337344

Ion Ratio Lower Upper

142 100

141 91.5 71.4 107.2

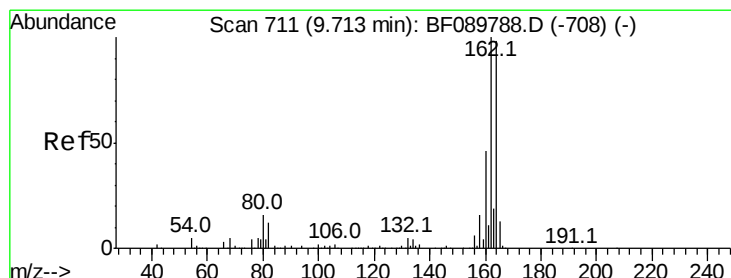
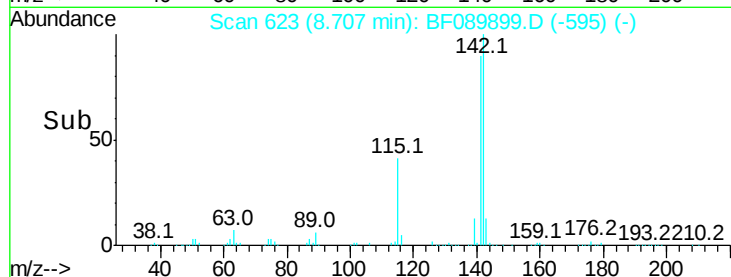
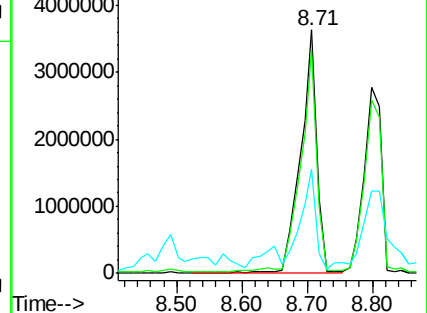
115 42.9 22.7 34.1#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.74 min Scan# 713

Delta R.T. 0.02 min

Lab File: BF089899.D

Acq: 25 Aug 2016 3:46

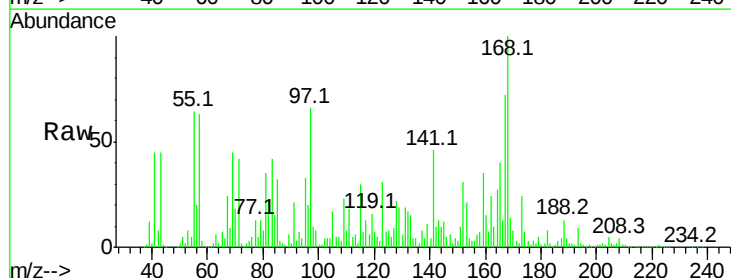
Tgt Ion:164 Resp: 356211

Ion Ratio Lower Upper

164 100

162 90.6 81.4 122.2

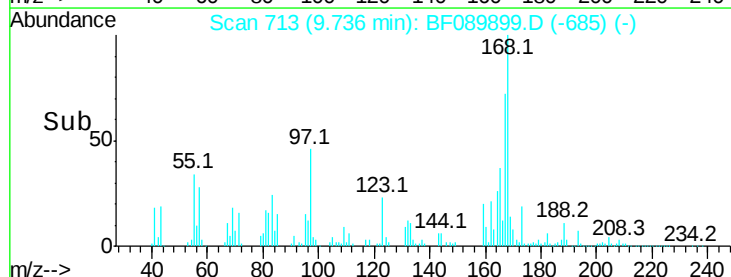
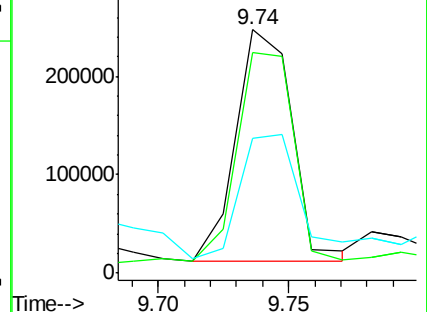
160 55.6 37.8 56.6

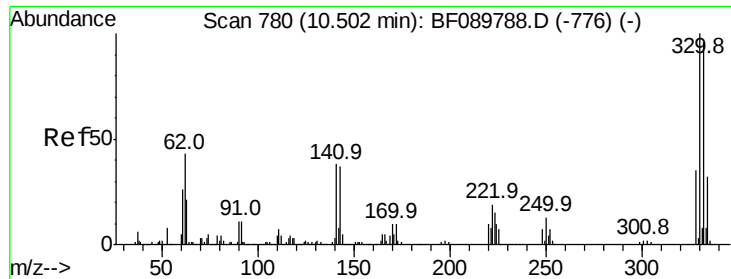


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

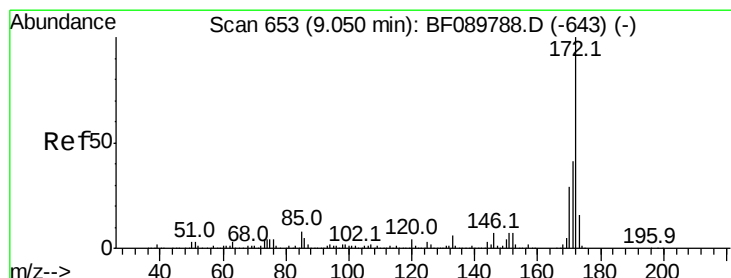
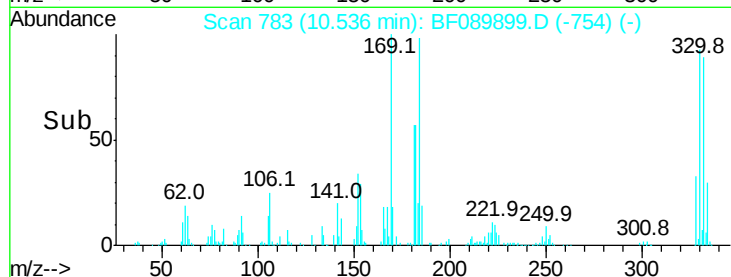
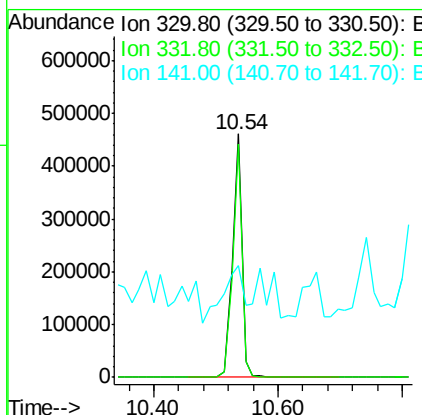
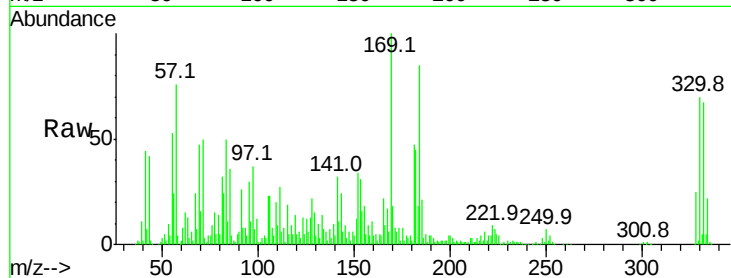




#41
 2,4,6-Tribromophenol
 Concen: 145.97 ng
 RT: 10.54 min Scan# 783
 Delta R.T. 0.03 min
 Lab File: BF089899.D
 Acq: 25 Aug 2016 3:46

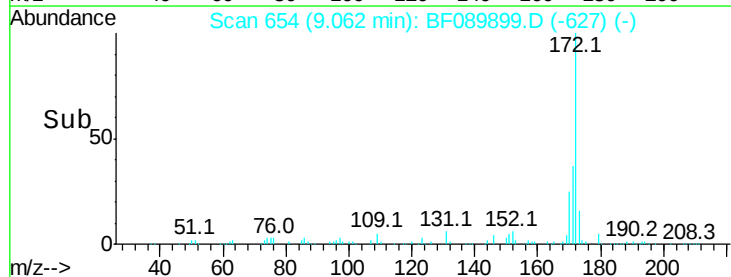
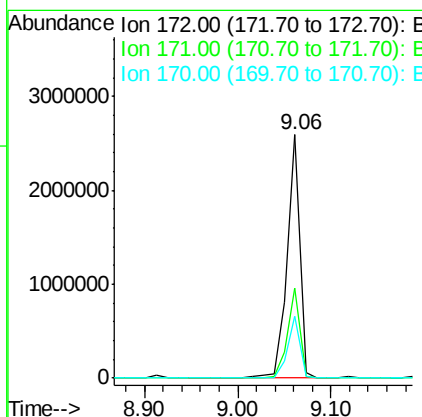
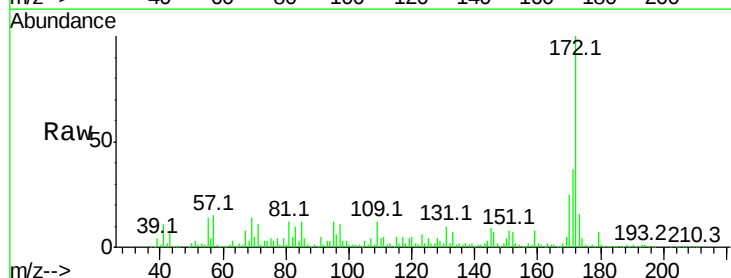
Instrument :
 BNA_F
 ClientSampleId :
 SB-21B-GW

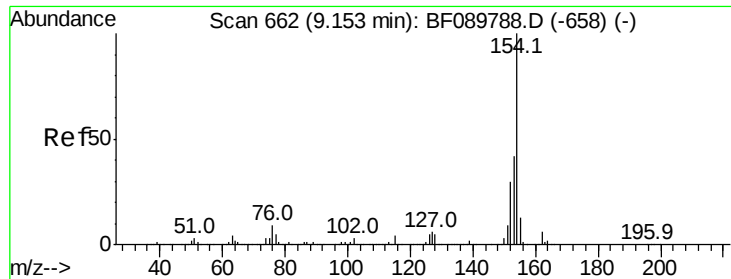
Tot Ion:330 Resp: 494146
 Ion Ratio Lower Upper
 330 100
 332 95.0 76.7 115.1
 141 25.8 30.2 45.2#



#44
 2-Fluorobiphenyl
 Concen: 120.73 ng
 RT: 9.06 min Scan# 654
 Delta R.T. 0.01 min
 Lab File: BF089899.D
 Acq: 25 Aug 2016 3:46

Tgt Ion:172 Resp: 2446901
 Ion Ratio Lower Upper
 172 100
 171 37.2 30.5 45.7
 170 25.3 20.6 31.0





#45

1,1'-Biphenyl

Concen: 59.12 ng

RT: 9.16 min Scan# 663

Delta R.T. 0.01 min

Lab File: BF089899.D

Acq: 25 Aug 2016 3:46

Instrument :

BNA_F

ClientSampleId :

SB-21B-GW

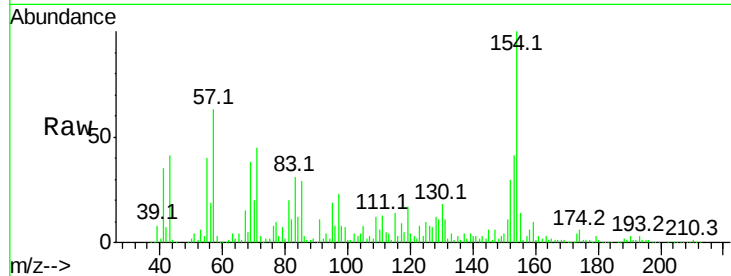
Tot Ion:154 Resp: 1629740

Ion Ratio Lower Upper

154 100

153 41.1 21.5 61.5

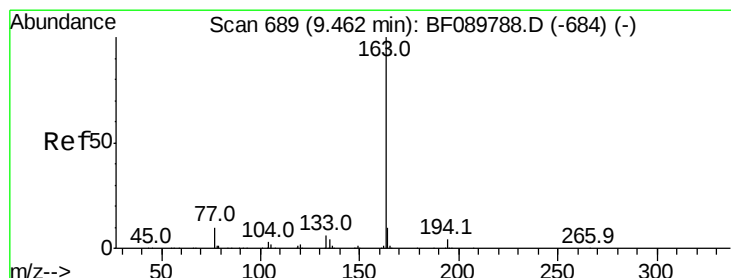
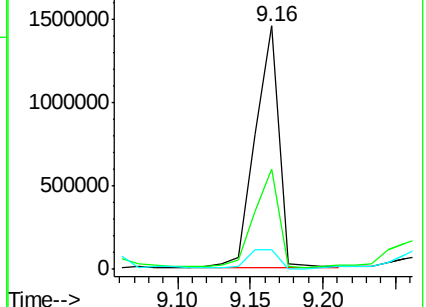
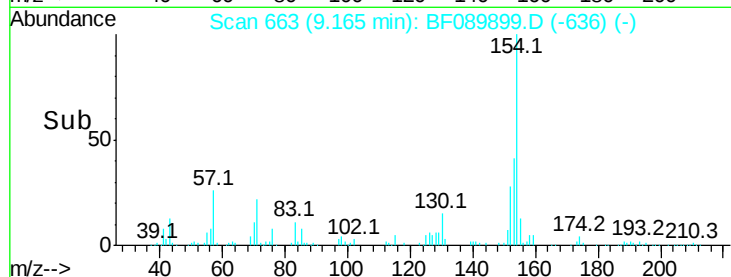
76 8.1 0.0 36.7



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#49

Dimethylphthalate

Concen: 7.10 ng

RT: 9.46 min Scan# 689

Delta R.T. -0.00 min

Lab File: BF089899.D

Acq: 25 Aug 2016 3:46

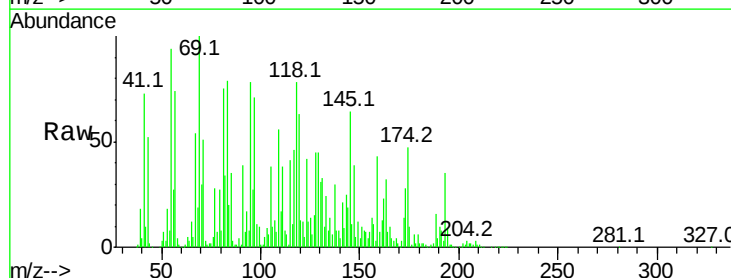
Tgt Ion:163 Resp: 178120

Ion Ratio Lower Upper

163 100

194 28.8 2.6 3.8#

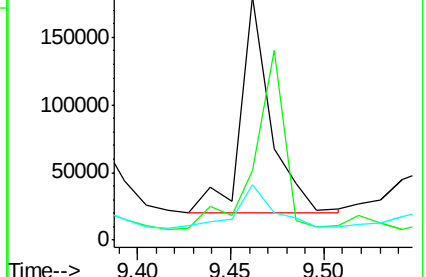
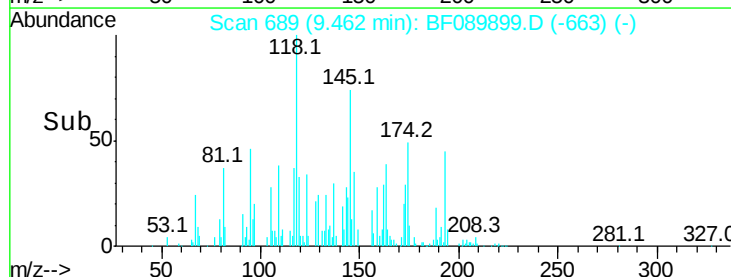
164 22.9 8.6 12.8#

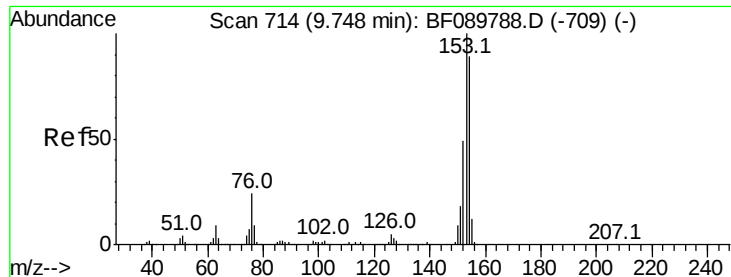


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 32.85 ng

RT: 9.77 min Scan# 716

Delta R.T. 0.02 min

Lab File: BF089899.D

Acq: 25 Aug 2016 3:46

Instrument :

BNA_F

ClientSampleId :

SB-21B-GW

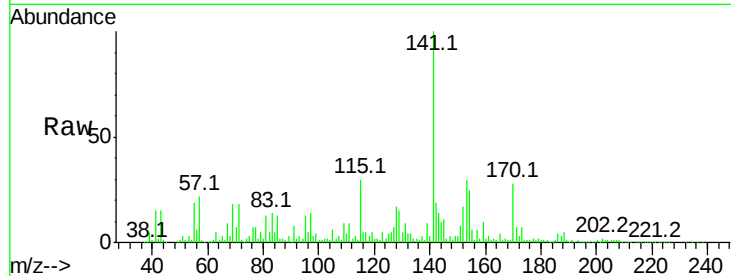
Tot Ion:154 Resp: 711813

Ion Ratio Lower Upper

154 100

153 119.1 90.5 135.7

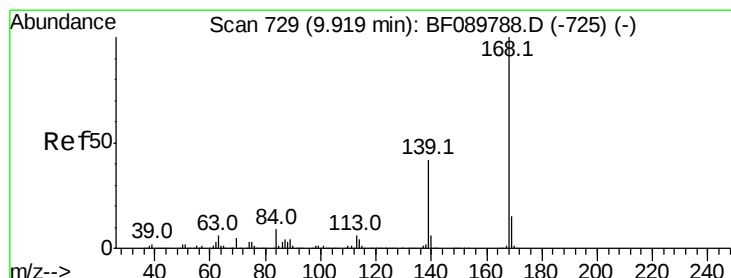
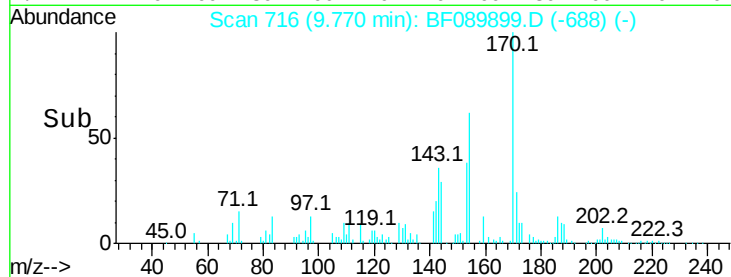
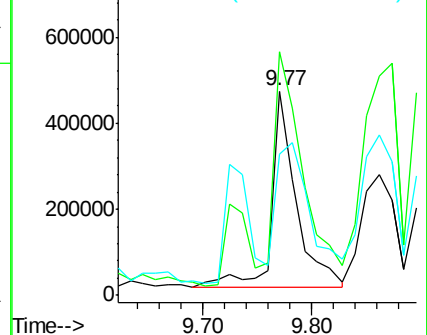
152 69.3 44.6 67.0#



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: 15.06 ng

RT: 9.94 min Scan# 731

Delta R.T. 0.02 min

Lab File: BF089899.D

Acq: 25 Aug 2016 3:46

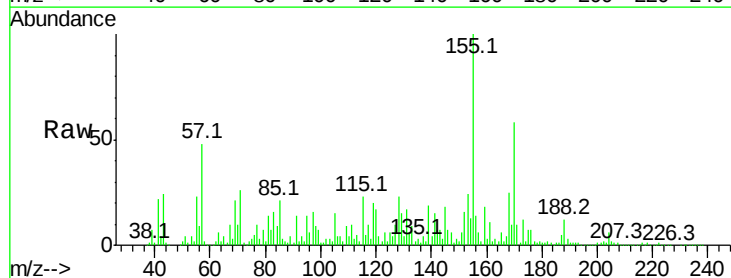
Tgt Ion:168 Resp: 409964

Ion Ratio Lower Upper

168 100

139 76.0 34.6 52.0#

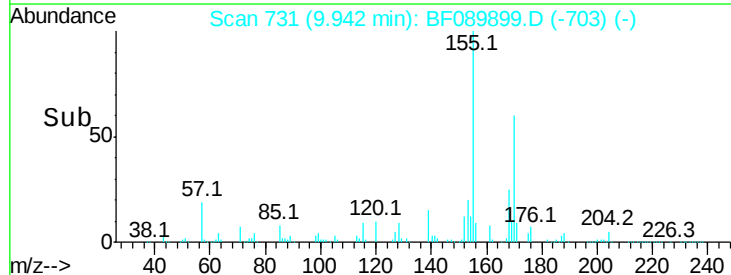
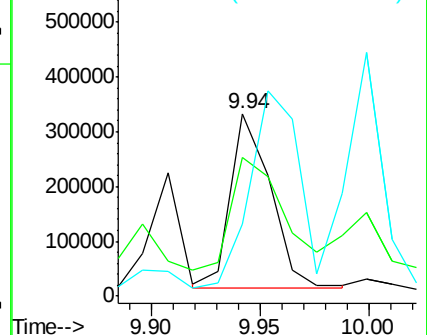
169 39.4 11.5 17.3#

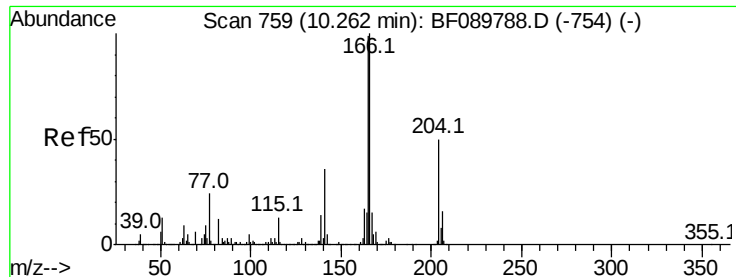


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

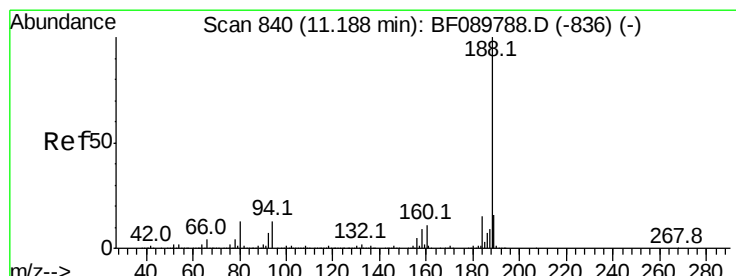
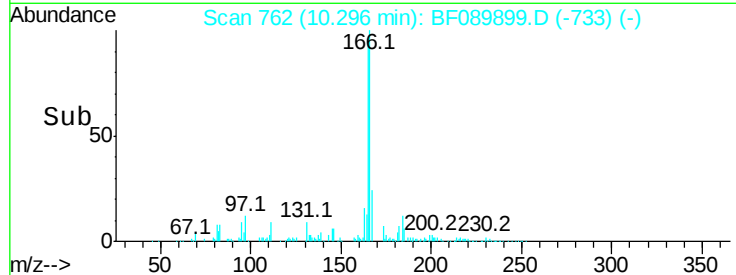
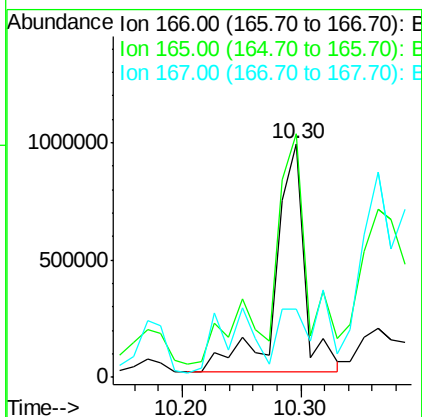
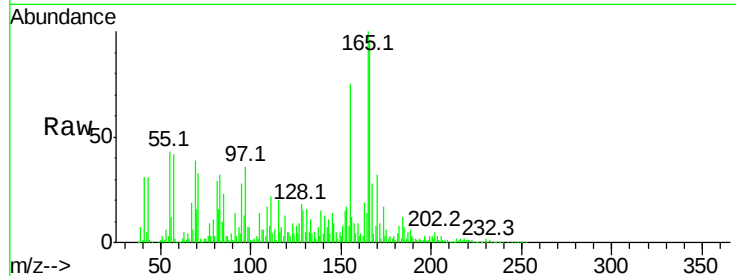




#57
Fluorene
Concen: 75.98 ng
RT: 10.30 min Scan# 762
Delta R.T. 0.03 min
Lab File: BF089899.D
Acq: 25 Aug 2016 3:46

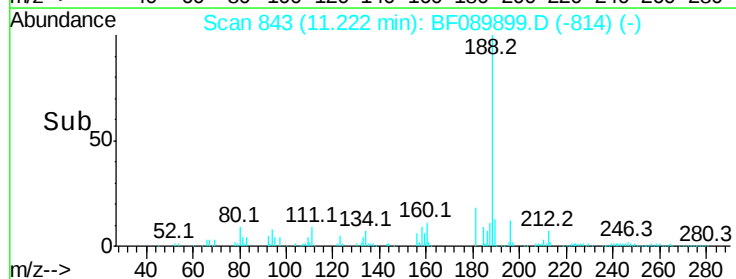
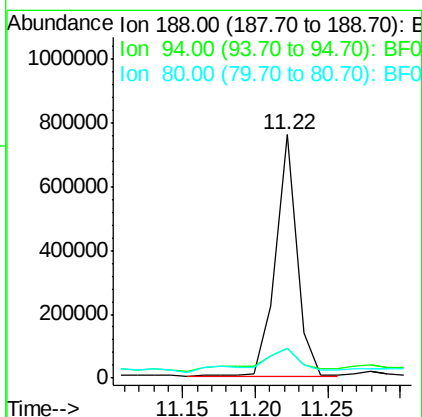
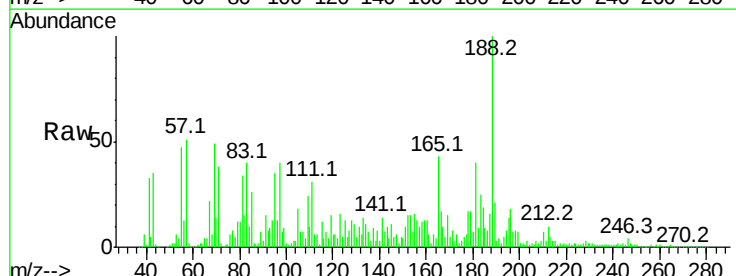
Instrument :
BNA_F
ClientSampleId :
SB-21B-GW

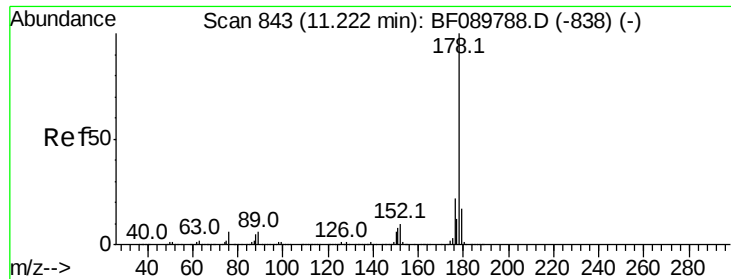
Tot Ion:166 Resp: 1648017
Ion Ratio Lower Upper
166 100
165 104.2 80.2 120.4
167 29.5 11.3 16.9#



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.22 min Scan# 843
Delta R.T. 0.03 min
Lab File: BF089899.D
Acq: 25 Aug 2016 3:46

Tgt Ion:188 Resp: 783247
Ion Ratio Lower Upper
188 100
94 12.5 10.2 15.2
80 12.3 10.9 16.3

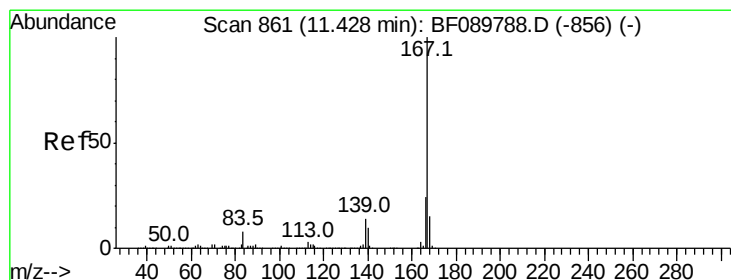
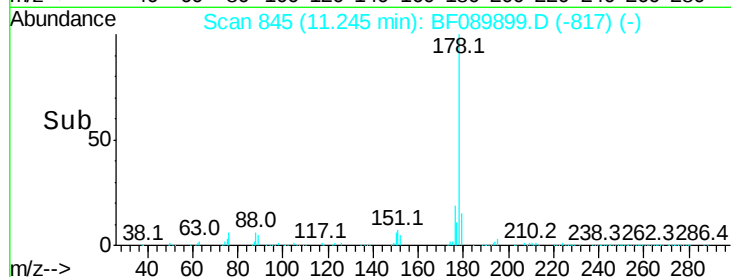
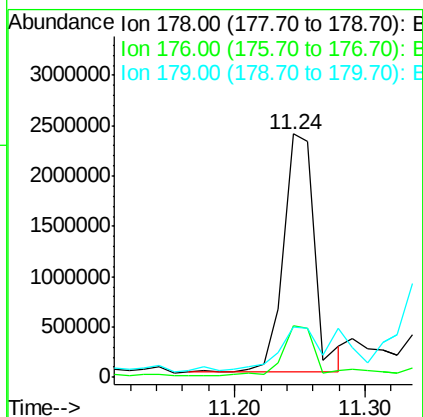
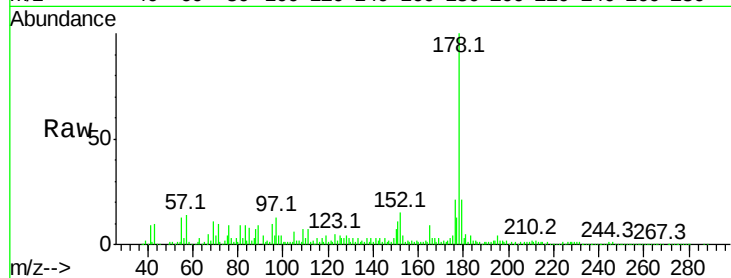




#70
Phenanthrene
Concen: 100.48 ng
RT: 11.24 min Scan# 845
Delta R.T. 0.02 min
Lab File: BF089899.D
Acq: 25 Aug 2016 3:46

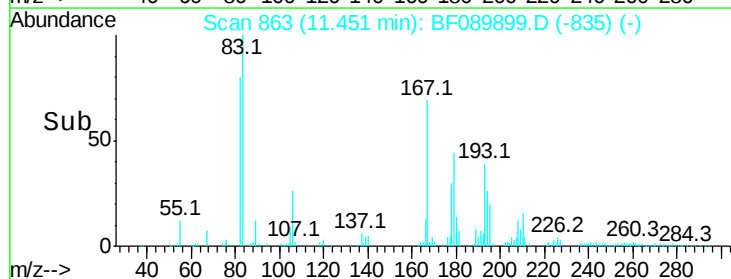
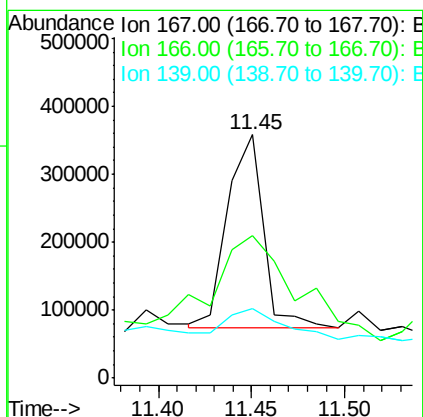
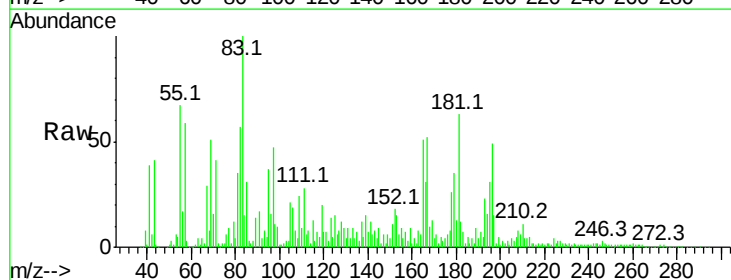
Instrument :
BNA_F
ClientSampleId :
SB-21B-GW

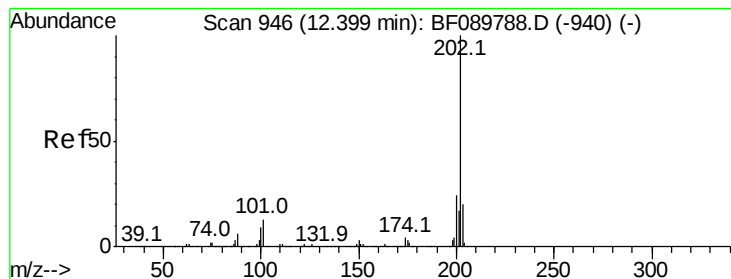
Tot Ion:178 Resp: 3974732
Ion Ratio Lower Upper
178 100
176 21.1 16.4 24.6
179 20.7 12.5 18.7#



#72
Carbazole
Concen: 10.61 ng
RT: 11.45 min Scan# 863
Delta R.T. 0.02 min
Lab File: BF089899.D
Acq: 25 Aug 2016 3:46

Tgt Ion:167 Resp: 382651
Ion Ratio Lower Upper
167 100
166 58.4 17.9 26.9#
139 28.5 12.4 18.6#





#74

Fluoranthene

Concen: 6.35 ng

RT: 12.42 min Scan# 948

Delta R.T. 0.02 min

Lab File: BF089899.D

Acq: 25 Aug 2016 3:46

Instrument :

BNA_F

ClientSampleId :

SB-21B-GW

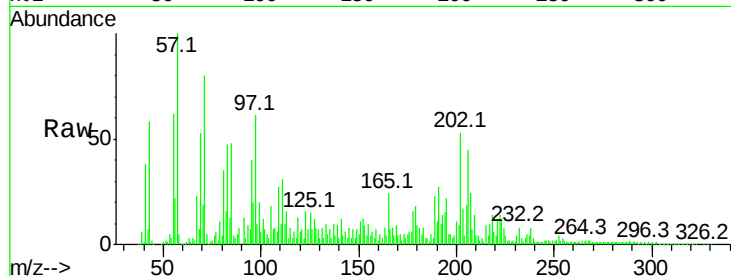
Tot Ion:202 Resp: 238883

Ion Ratio Lower Upper

202 100

101 22.8 0.0 31.2

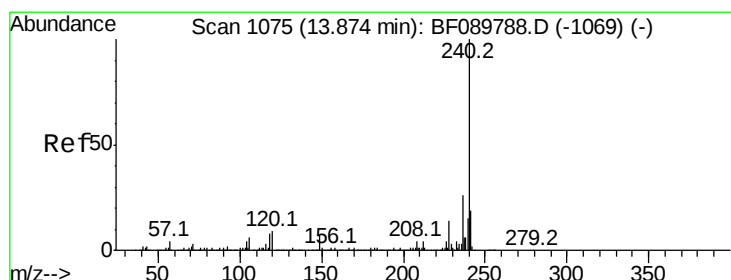
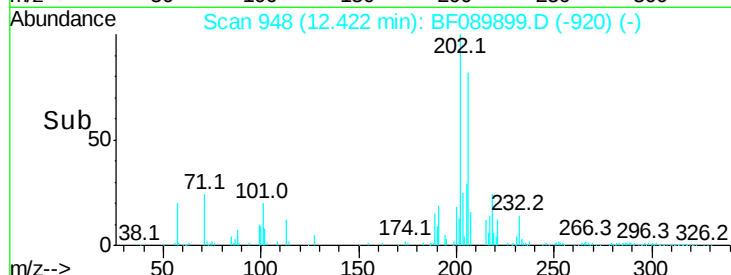
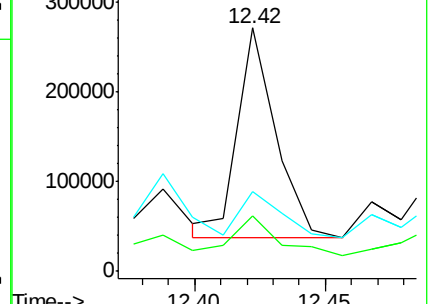
203 32.7 0.0 38.1



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: 13.84 min Scan# 1072

Delta R.T. -0.03 min

Lab File: BF089899.D

Acq: 25 Aug 2016 3:46

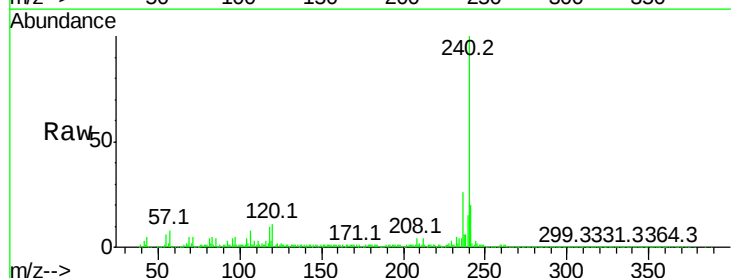
Tgt Ion:240 Resp: 877736

Ion Ratio Lower Upper

240 100

120 11.4 8.3 12.5

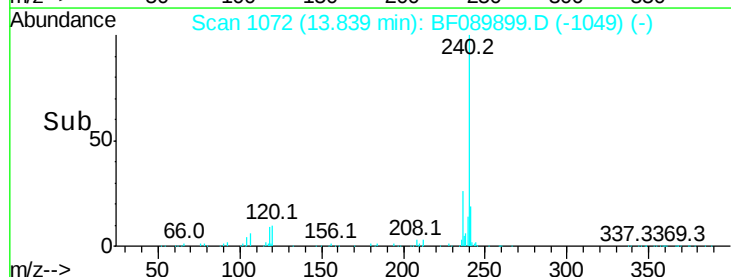
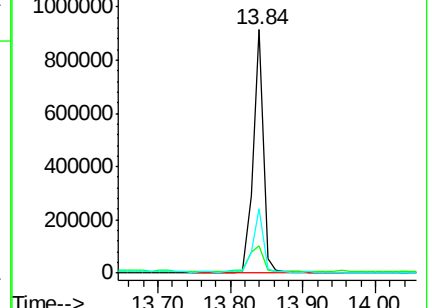
236 26.4 21.3 31.9

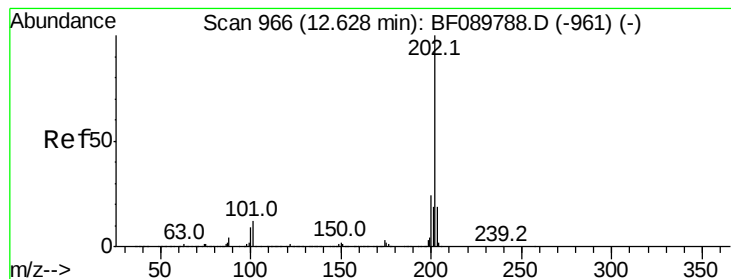


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 20.14 ng

RT: 12.64 min Scan# 967

Delta R.T. 0.01 min

Lab File: BF089899.D

Acq: 25 Aug 2016 3:46

Instrument :

BNA_F

ClientSampleId :

SB-21B-GW

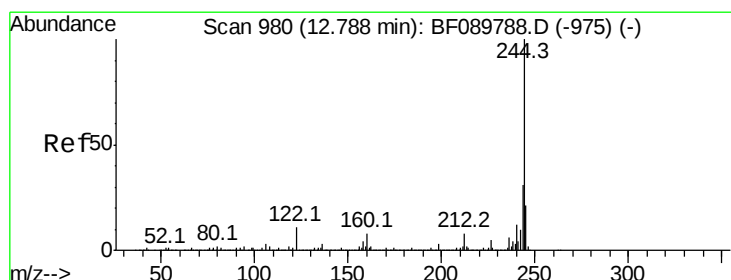
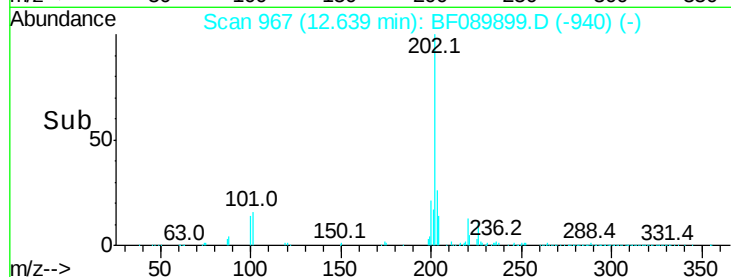
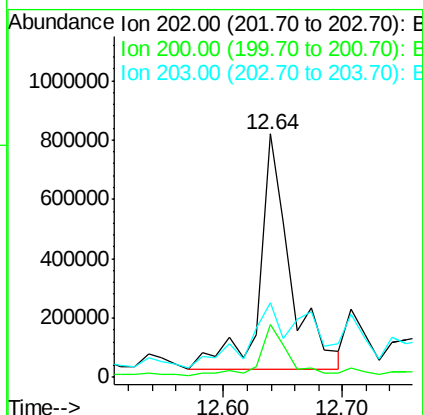
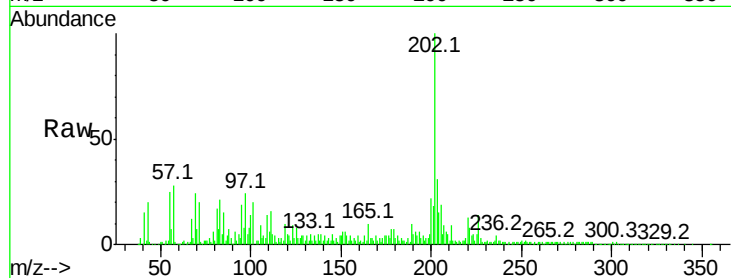
Tot Ion:202 Resp: 1439687

Ion Ratio Lower Upper

202 100

200 21.5 17.8 26.6

203 30.6 14.2 21.4#



#78

Terphenyl-d14

Concen: 59.65 ng

RT: 12.80 min Scan# 981

Delta R.T. 0.01 min

Lab File: BF089899.D

Acq: 25 Aug 2016 3:46

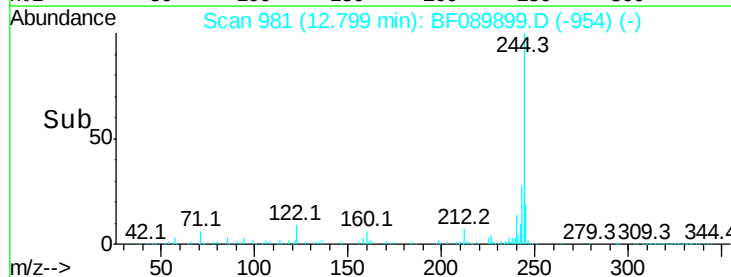
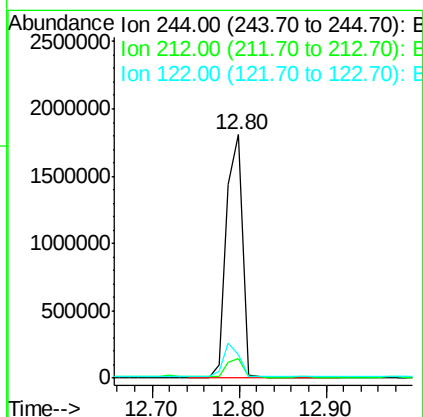
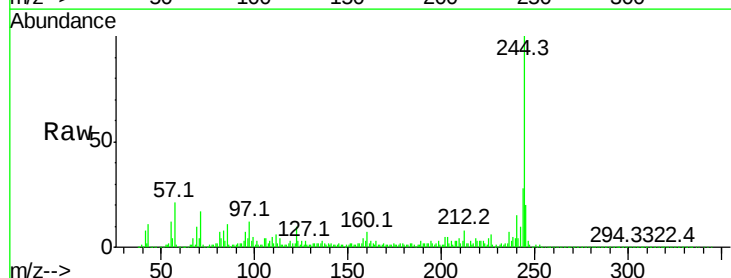
Tgt Ion:244 Resp: 2314422

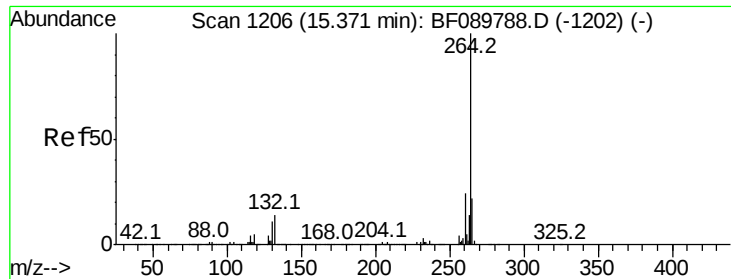
Ion Ratio Lower Upper

244 100

212 7.8 6.3 9.5

122 9.6 12.0 18.0#

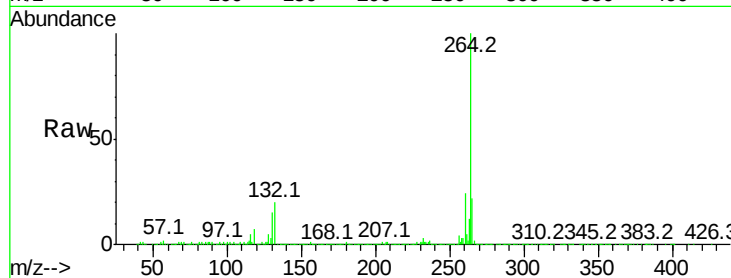




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.28 min Scan# 1198
Delta R.T. -0.09 min
Lab File: BF089899.D
Acq: 25 Aug 2016 3:46

Instrument :
BNA_F
ClientSampleId :
SB-21B-GW

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.1	20.2	30.2
265	21.7	17.4	26.2



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

