

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081016\
 Data File : BF089709.D
 Acq On : 10 Aug 2016 22:15
 Operator : UM/SJ
 Sample : H4400-02
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DEL1(0-6)

Quant Time: Aug 11 01:12:09 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF080416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 05 01:39:23 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.40	152	48376	20.00	ng	-0.05
21) Naphthalene-d8	9.43	136	199302	20.00	ng	-0.05
38) Acenaphthene-d10	12.25	164	88497	20.00	ng	-0.05
63) Phenanthrene-d10	14.64	188	138960	20.00	ng	-0.06
75) Chrysene-d12	18.35	240	106882	20.00	ng	-0.03
86) Perylene-d12	20.03	264	99476	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.29	112	286601	99.30	ng	-0.02
7) Phenol-d6	6.96	99	404785	103.38	ng	-0.02
23) Nitrobenzene-d5	8.31	82	237906	66.03	ng	-0.06
41) 2,4,6-Tribromophenol	13.54	330	60305	82.57	ng	-0.05
44) 2-Fluorobiphenyl	11.21	172	446364	65.55	ng	-0.05
78) Terphenyl-d14	17.02	244	274050	50.62	ng	-0.03

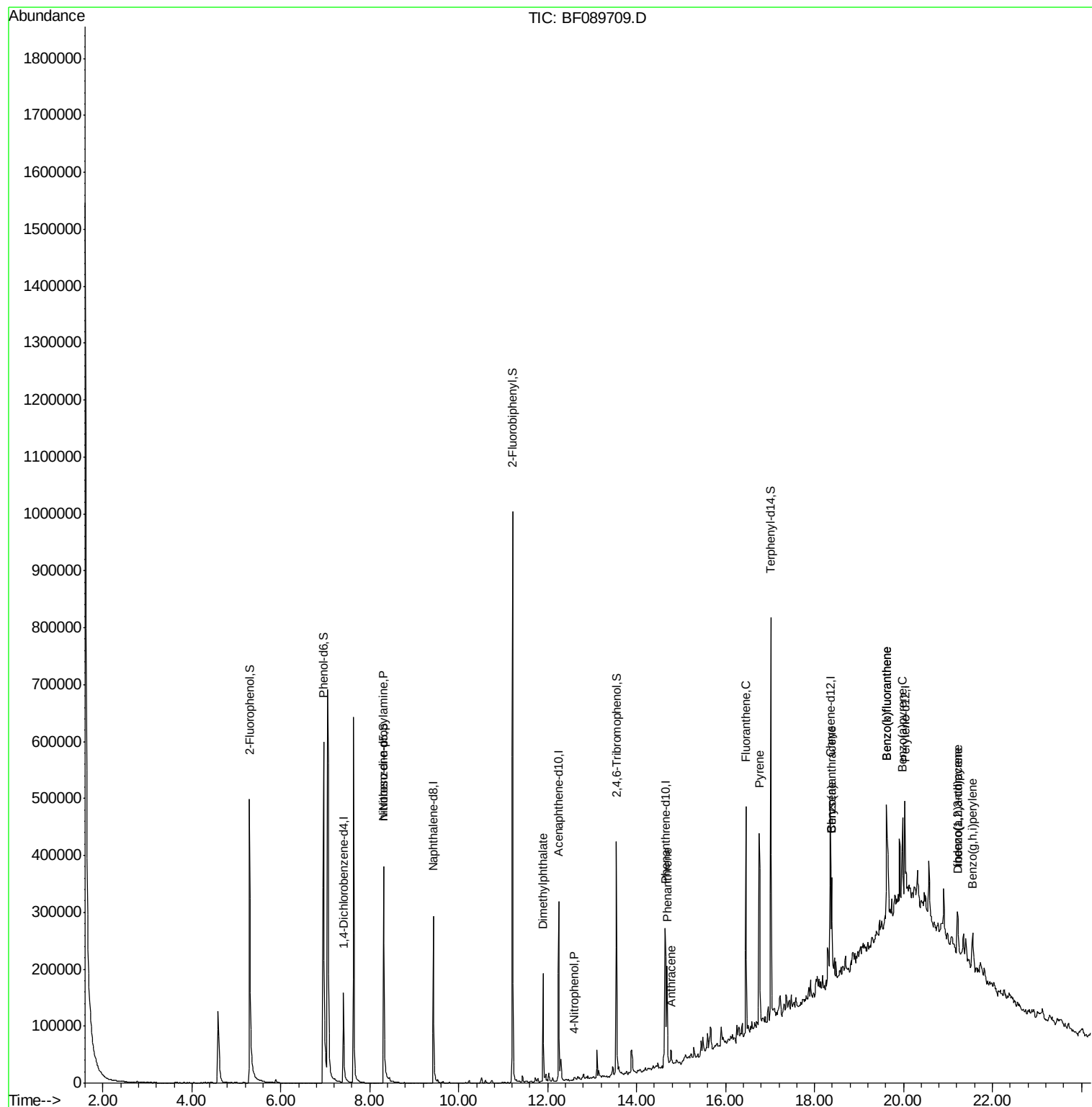
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	8.31	70	27704	9.79	ng	# 83
49) Dimethylphthalate	11.90	163	99576	14.36	ng	99
55) 4-Nitrophenol	12.59	139	1960	8.21	ng	# 43
70) Phenanthrene	14.69	178	115392	15.27	ng	98
71) Anthracene	14.78	178	28917	3.57	ng	97
74) Fluoranthene	16.46	202	211867	27.28	ng	99
77) Pyrene	16.75	202	180410	19.09	ng	# 94
80) Benzo(a)anthracene	18.39	228	89771	14.62	ng	95
82) Chrysene	18.39	228	89771	13.93	ng	98
85) Indeno(1,2,3-cd)pyrene	21.21	276	45689	9.34	ng	98
87) Benzo(b)fluoranthene	19.62	252	154957	25.33	ng	# 93
88) Benzo(k)fluoranthene	19.62	252	154957	25.11	ng	96
89) Benzo(a)pyrene	19.98	252	75660	13.21	ng	94
90) Dibenzo(a,h)anthracene	21.22	278	12518	2.34	ng	# 71
91) Benzo(g,h,i)perylene	21.55	276	43601	7.96	ng	96

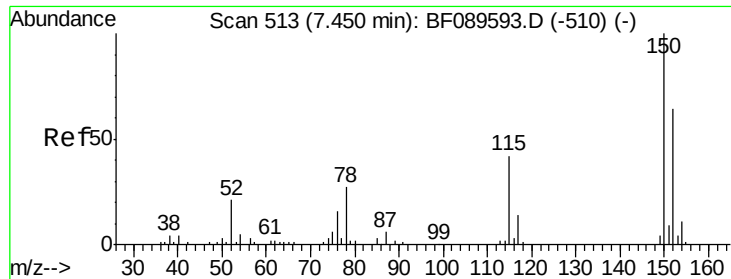
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.40 min Scan# 509

Delta R.T. -0.05 min

Lab File: BF089709.D

Acq: 10 Aug 2016 22:15

Instrument :

BNA_F

ClientSampleId :

DEL1(0-6)

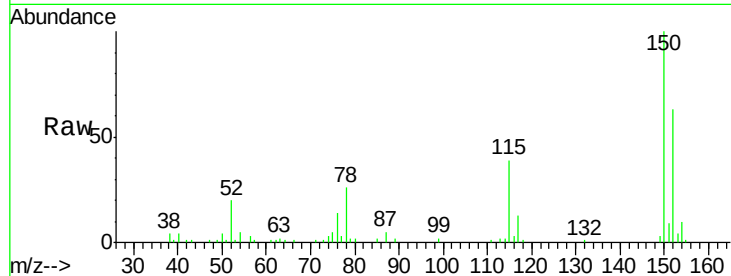
Tgt Ion:152 Resp: 48376

Ion Ratio Lower Upper

152 100

150 159.4 125.5 188.3

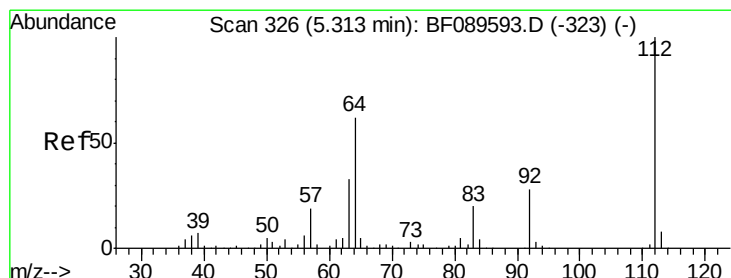
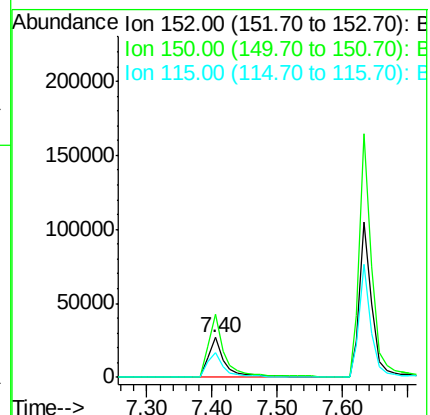
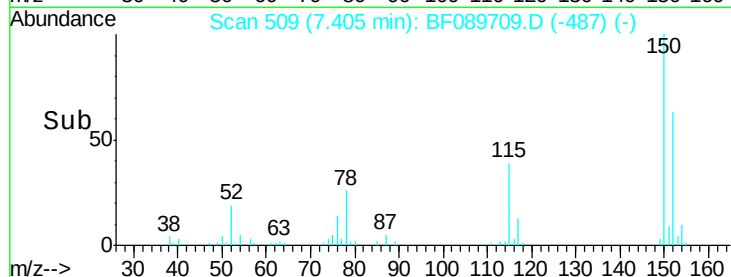
115 62.8 52.0 78.0



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: 99.30 ng

RT: 5.29 min Scan# 324

Delta R.T. -0.02 min

Lab File: BF089709.D

Acq: 10 Aug 2016 22:15

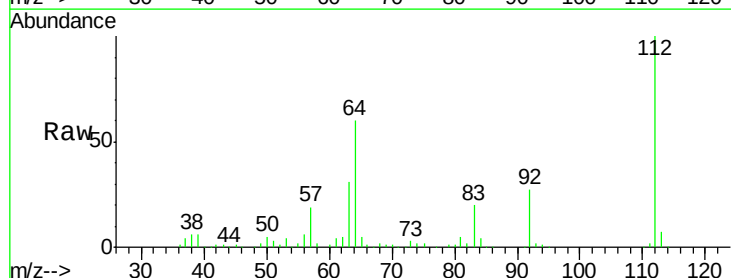
Tgt Ion:112 Resp: 286601

Ion Ratio Lower Upper

112 100

64 59.7 49.9 74.9

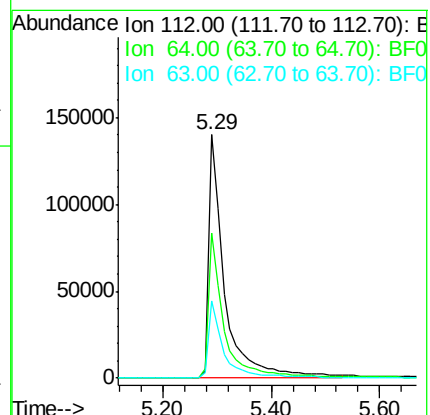
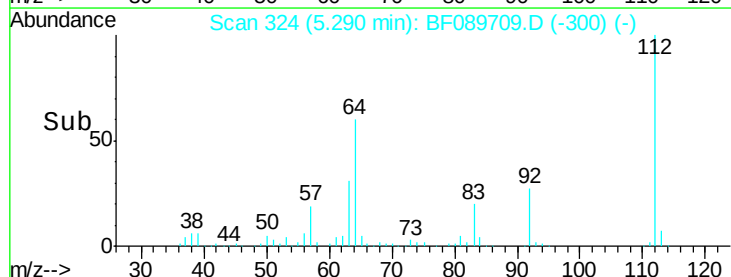
63 31.5 26.1 39.1

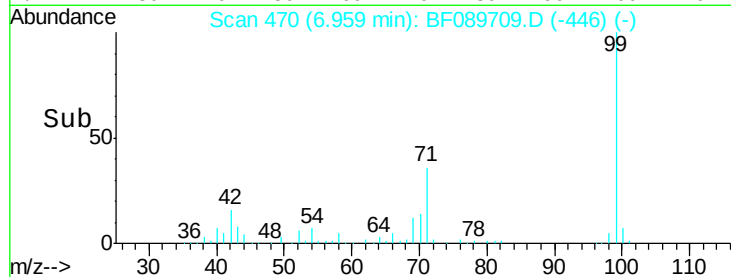
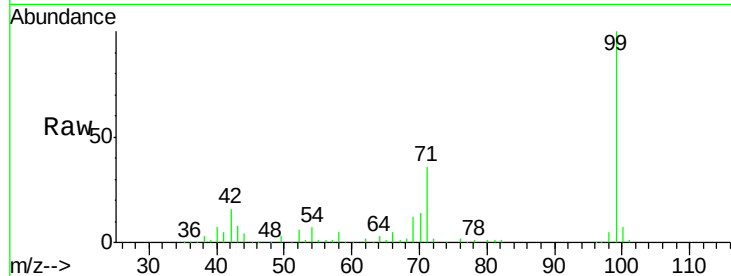
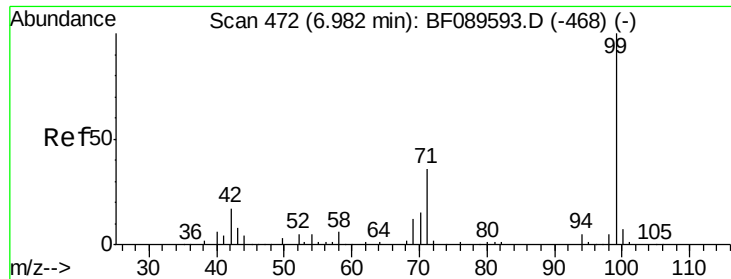


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 103.38 ng

RT: 6.96 min Scan# 470

Delta R.T. -0.02 min

Lab File: BF089709.D

Acq: 10 Aug 2016 22:15

Instrument :

BNA_F

ClientSampleId :

DEL1(0-6)

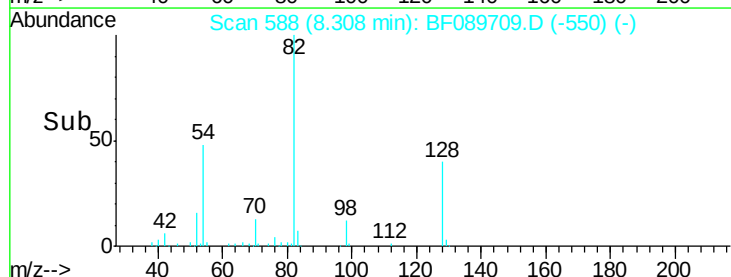
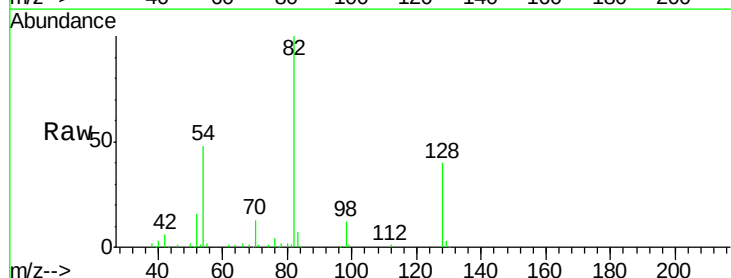
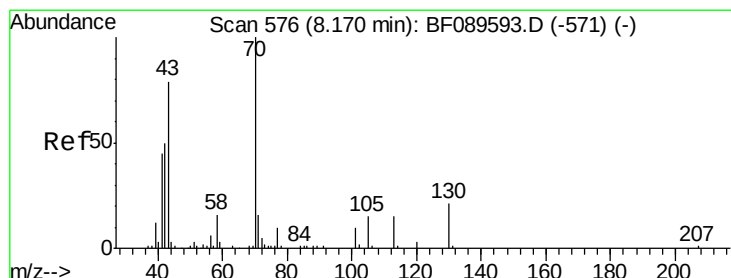
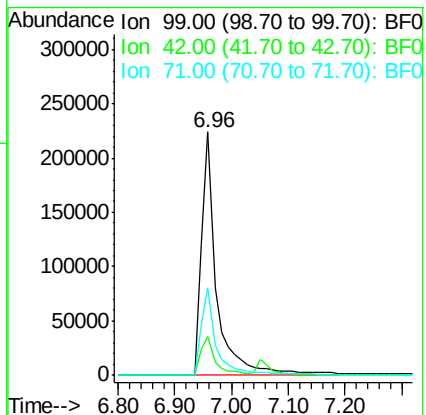
Tgt Ion: 99 Resp: 404785

Ion Ratio Lower Upper

99 100

42 16.2 13.7 20.5

71 36.0 29.0 43.4



#19

n-Nitroso-di-n-propylamine

Concen: 9.79 ng

RT: 8.31 min Scan# 588

Delta R.T. 0.14 min

Lab File: BF089709.D

Acq: 10 Aug 2016 22:15

Tgt Ion: 70 Resp: 27704

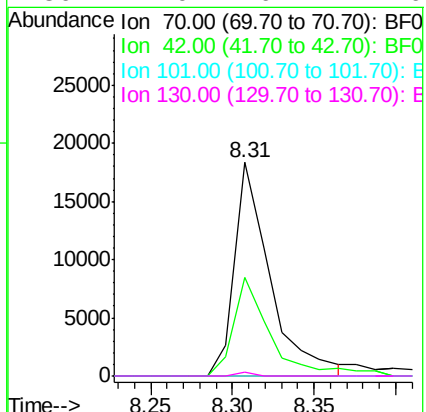
Ion Ratio Lower Upper

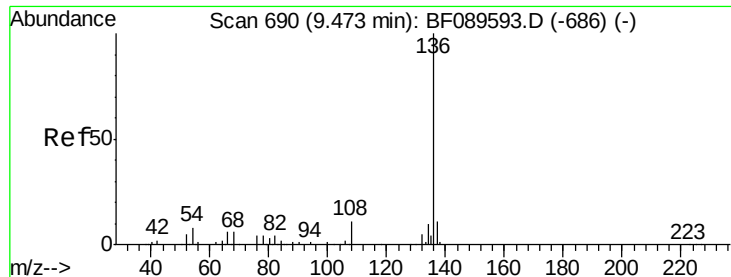
70 100

42 46.4 40.2 60.2

101 0.0 7.8 11.6#

130 2.0 16.4 24.6#

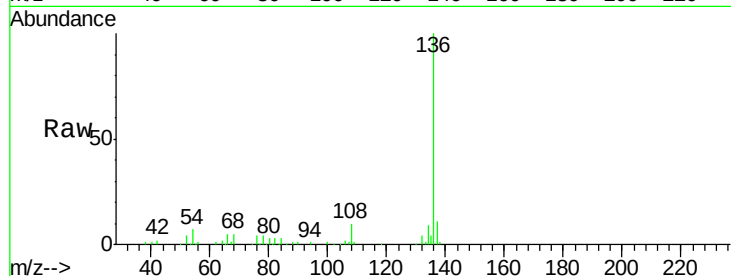




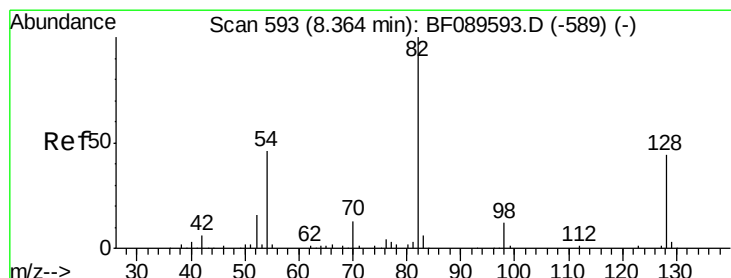
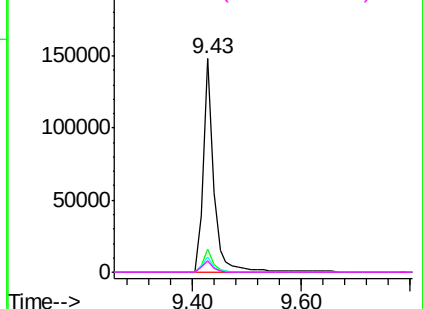
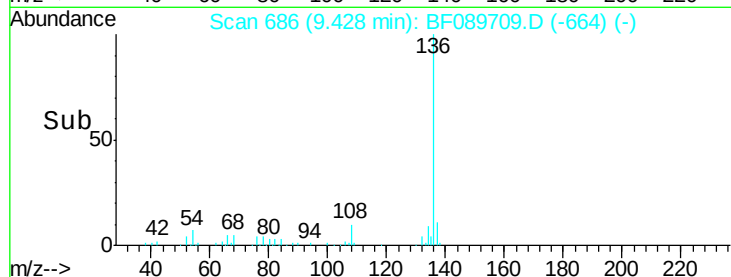
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.43 min Scan# 686
Delta R.T. -0.05 min
Lab File: BF089709.D
Acq: 10 Aug 2016 22:15

Instrument :
BNA_F
ClientSampleId :
DEL1(0-6)

Tgt Ion:	136	Resp:	199302
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	12.8
54	7.0	6.0	9.0
68	5.3	4.6	6.8

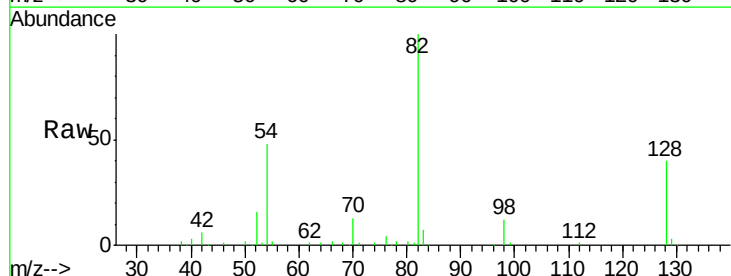


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

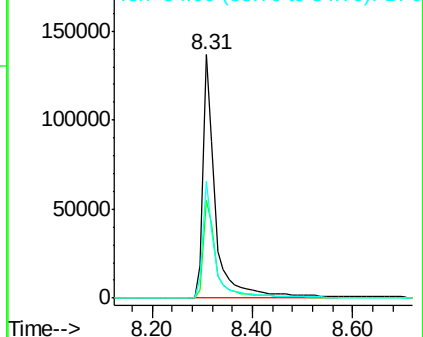
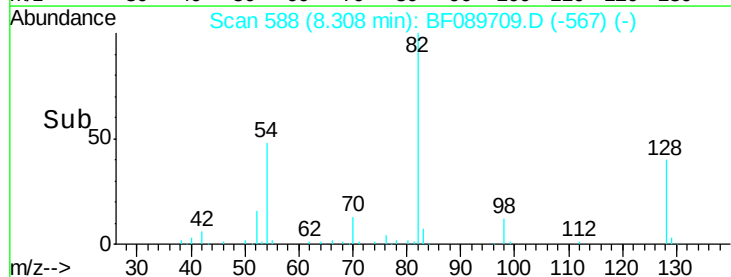


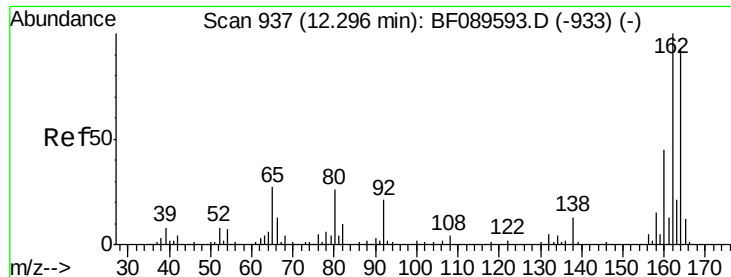
#23
Nitrobenzene-d5
Concen: 66.03 ng
RT: 8.31 min Scan# 588
Delta R.T. -0.06 min
Lab File: BF089709.D
Acq: 10 Aug 2016 22:15

Tgt Ion:	82	Resp:	237906
Ion	Ratio	Lower	Upper
82	100		
128	40.0	35.4	53.0
54	47.8	36.4	54.6



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

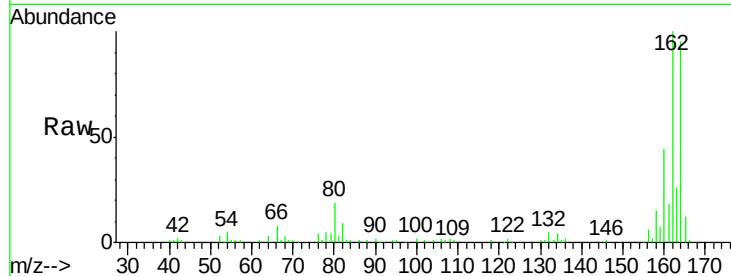




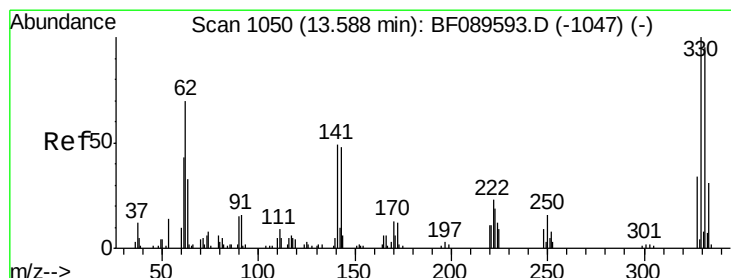
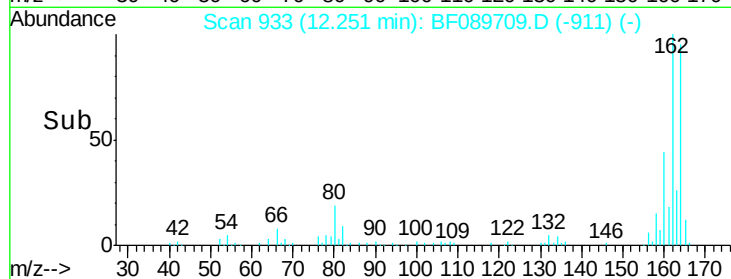
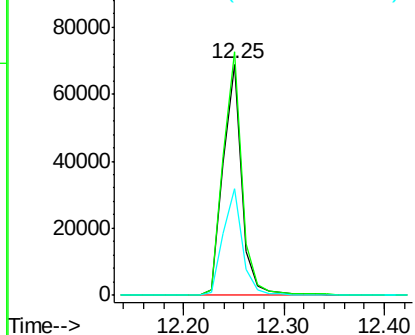
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.25 min Scan# 933
 Delta R.T. -0.05 min
 Lab File: BF089709.D
 Acq: 10 Aug 2016 22:15

Instrument :
 BNA_F
 ClientSampleId :
 DEL1(0-6)

Tgt Ion:164 Resp: 88497
 Ion Ratio Lower Upper
 164 100
 162 105.3 85.7 128.5
 160 46.0 38.2 57.4

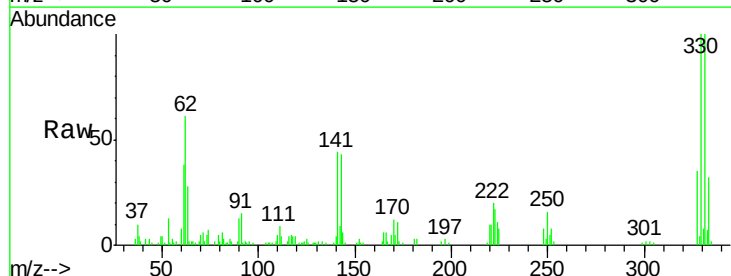


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

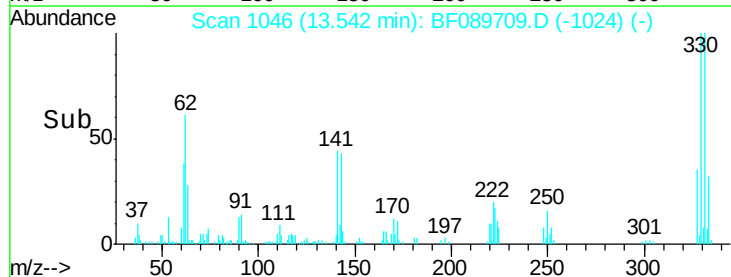
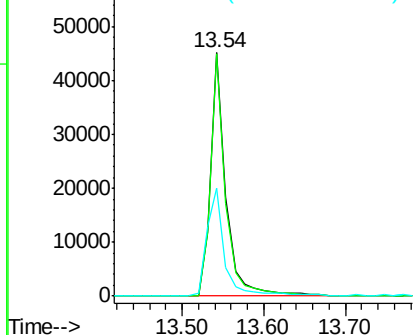


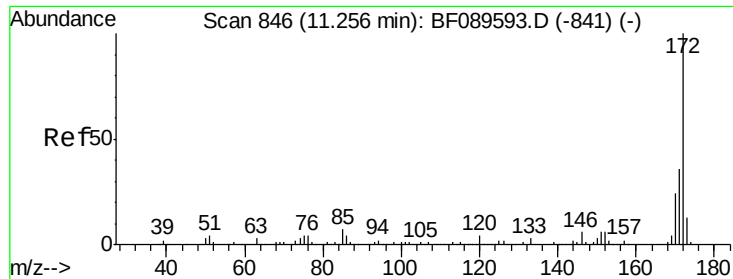
#41
 2,4,6-Tribromophenol
 Concen: 82.57 ng
 RT: 13.54 min Scan# 1046
 Delta R.T. -0.05 min
 Lab File: BF089709.D
 Acq: 10 Aug 2016 22:15

Tgt Ion:330 Resp: 60305
 Ion Ratio Lower Upper
 330 100
 332 97.5 77.0 115.6
 141 51.6 38.6 57.8



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

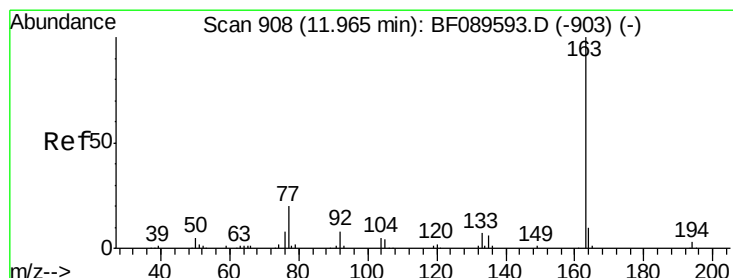
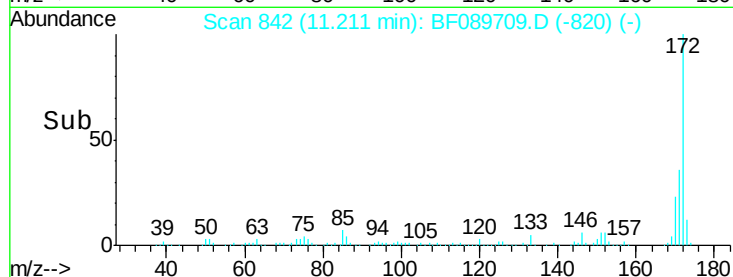
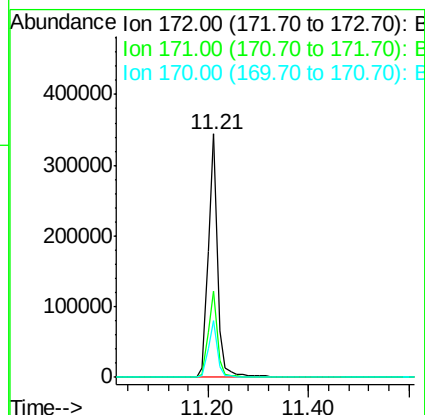
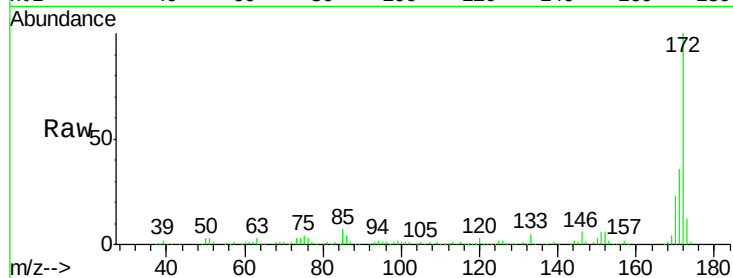




#44
2-Fluorobiphenyl
Concen: 65.55 ng
RT: 11.21 min Scan# 842
Delta R.T. -0.05 min
Lab File: BF089709.D
Acq: 10 Aug 2016 22:15

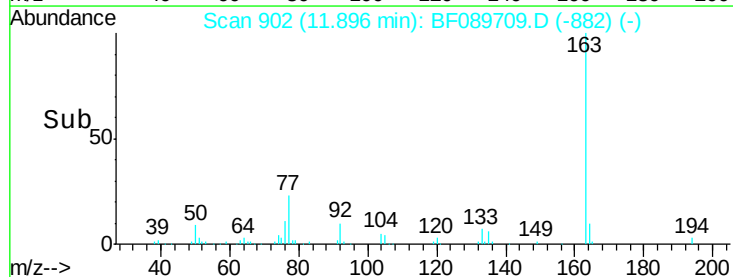
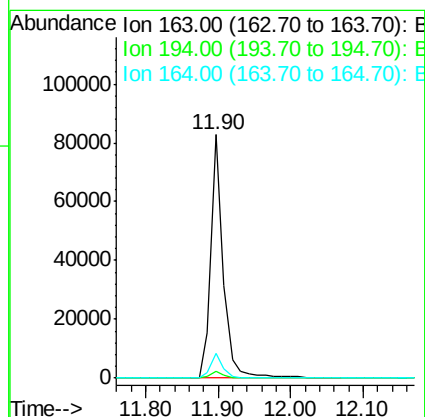
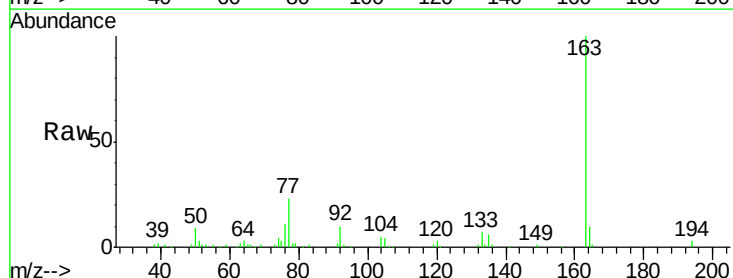
Instrument :
BNA_F
ClientSampleId :
DEL1(0-6)

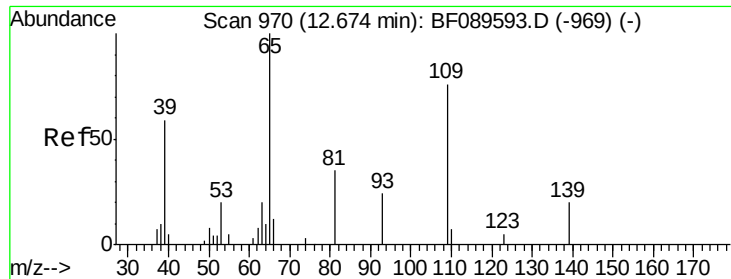
Tgt Ion:172 Resp: 446364
Ion Ratio Lower Upper
172 100
171 35.6 28.9 43.3
170 23.5 19.0 28.6



#49
Dimethylphthalate
Concen: 14.36 ng
RT: 11.90 min Scan# 902
Delta R.T. -0.07 min
Lab File: BF089709.D
Acq: 10 Aug 2016 22:15

Tgt Ion:163 Resp: 99576
Ion Ratio Lower Upper
163 100
194 3.0 2.7 4.1
164 10.0 7.8 11.6

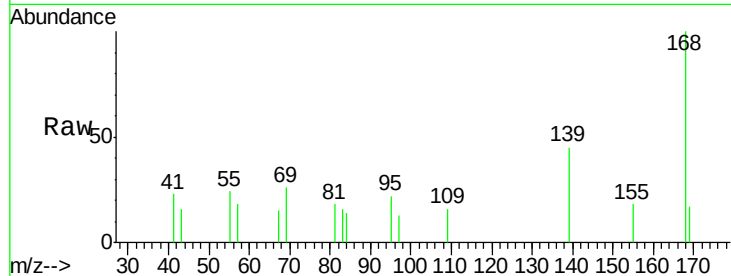




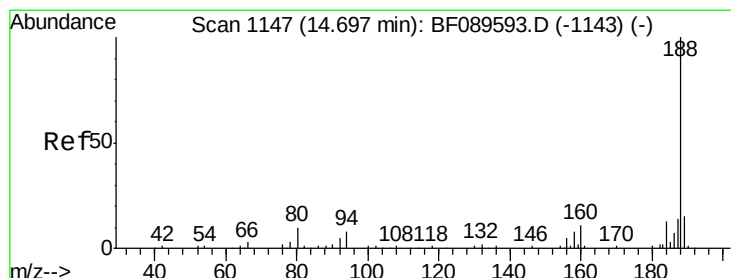
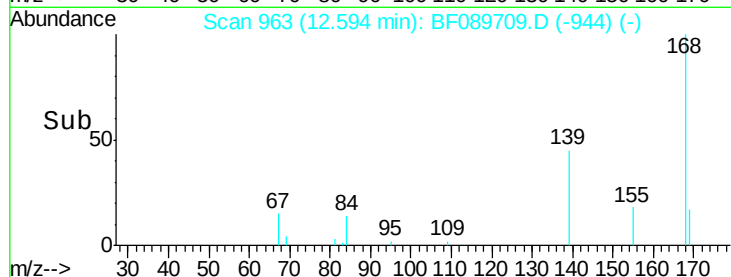
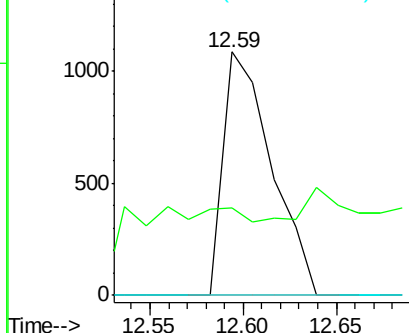
#55
4-Nitrophenol
Concen: 8.21 ng
RT: 12.59 min Scan# 963
Delta R.T. -0.08 min
Lab File: BF089709.D
Acq: 10 Aug 2016 22:15

Instrument :
BNA_F
ClientSampleId :
DEL1(0-6)

Tgt Ion:139 Resp: 1960
Ion Ratio Lower Upper
139 100
109 36.2 28.9 68.9
65 0.0 49.2 89.2#

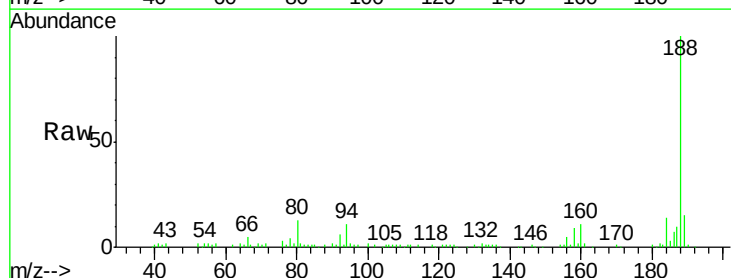


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

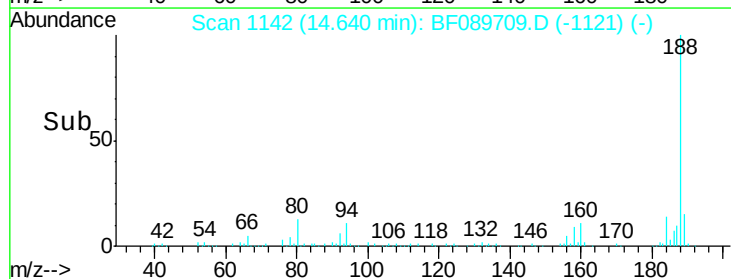
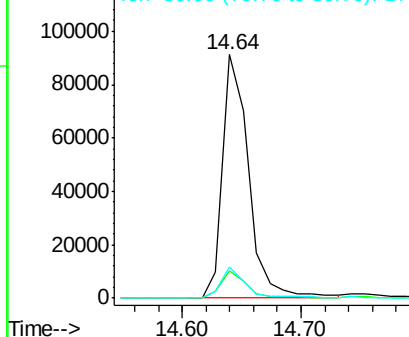


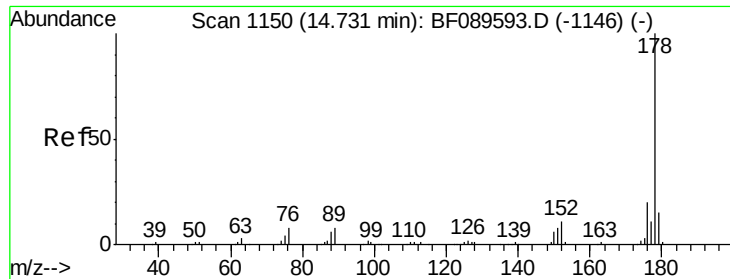
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.64 min Scan# 1142
Delta R.T. -0.06 min
Lab File: BF089709.D
Acq: 10 Aug 2016 22:15

Tgt Ion:188 Resp: 138960
Ion Ratio Lower Upper
188 100
94 11.0 6.5 9.7#
80 12.8 8.0 12.0#



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 15.27 ng

RT: 14.69 min Scan# 1146

Delta R.T. -0.05 min

Lab File: BF089709.D

Acq: 10 Aug 2016 22:15

Instrument :

BNA_F

ClientSampleId :

DEL1(0-6)

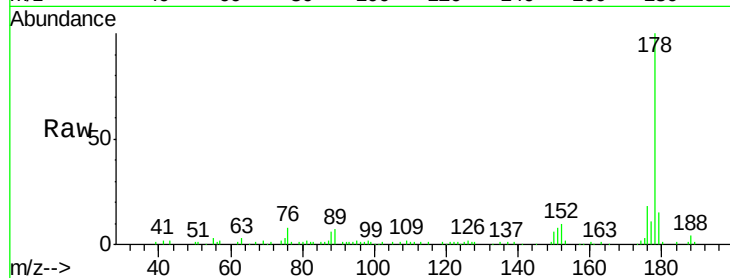
Tgt Ion:178 Resp: 115392

Ion Ratio Lower Upper

178 100

176 18.4 15.7 23.5

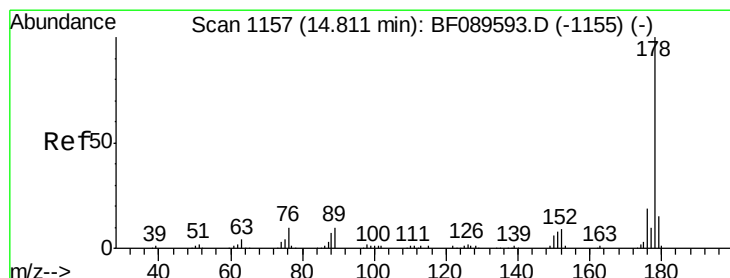
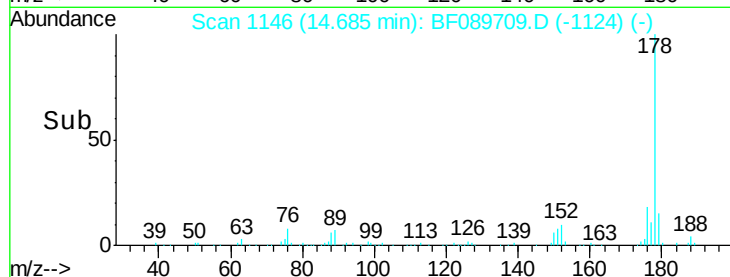
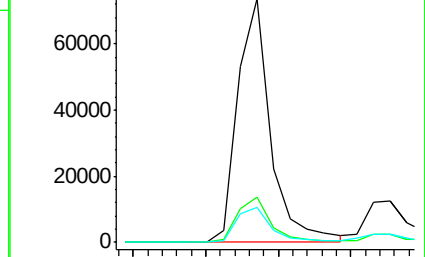
179 14.6 12.2 18.2



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: 3.57 ng

RT: 14.78 min Scan# 1154

Delta R.T. -0.03 min

Lab File: BF089709.D

Acq: 10 Aug 2016 22:15

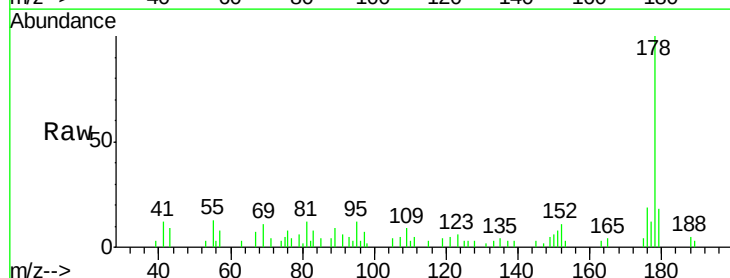
Tgt Ion:178 Resp: 28917

Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.4

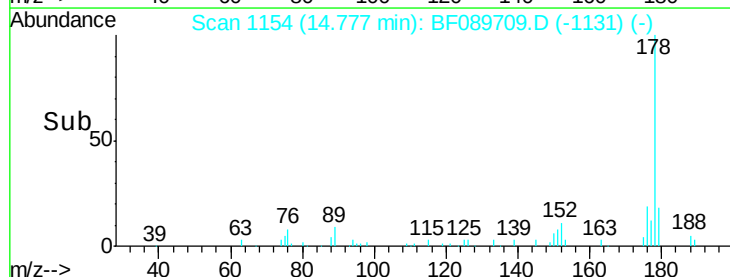
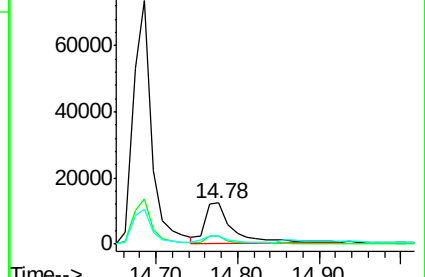
179 18.2 12.4 18.6

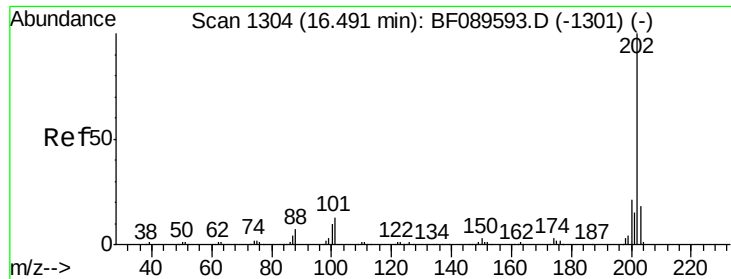


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 27.28 ng

RT: 16.46 min Scan# 1301

Delta R.T. -0.03 min

Lab File: BF089709.D

Acq: 10 Aug 2016 22:15

Instrument :

BNA_F

ClientSampleId :

DEL1(0-6)

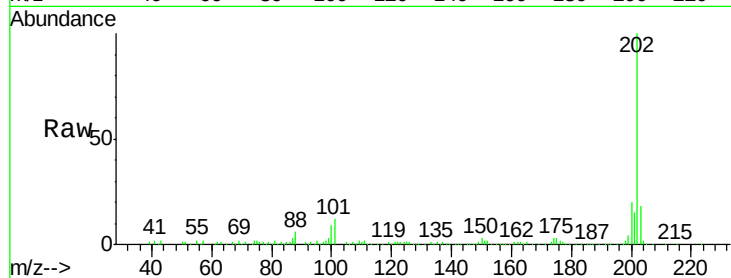
Tgt Ion:202 Resp: 211867

Ion Ratio Lower Upper

202 100

101 12.0 0.0 32.7

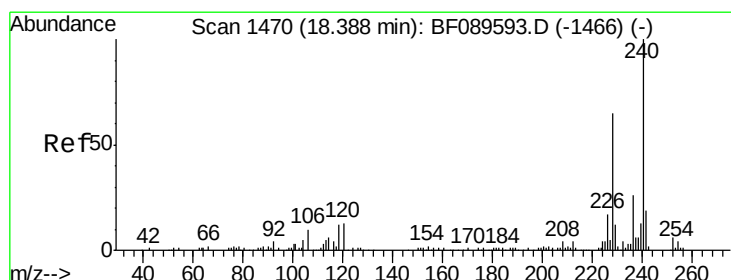
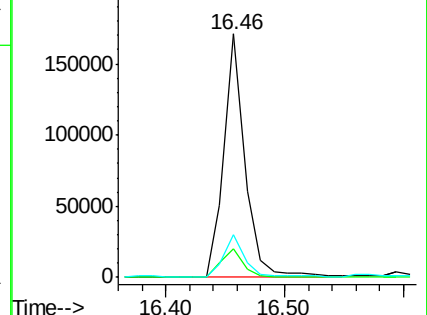
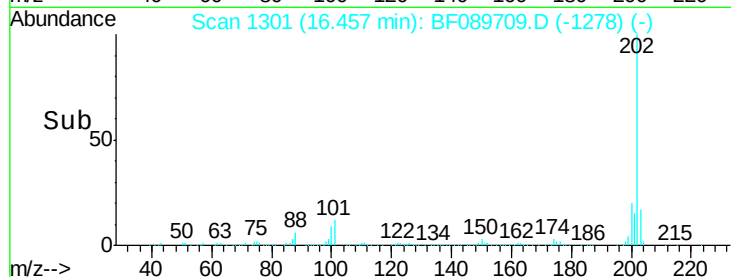
203 17.6 0.0 37.8



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: 18.35 min Scan# 1467

Delta R.T. -0.03 min

Lab File: BF089709.D

Acq: 10 Aug 2016 22:15

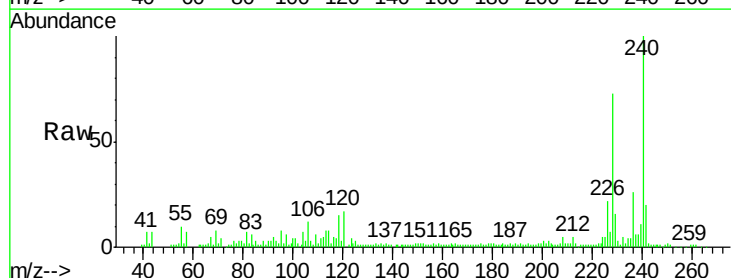
Tgt Ion:240 Resp: 106882

Ion Ratio Lower Upper

240 100

120 16.9 10.6 15.8#

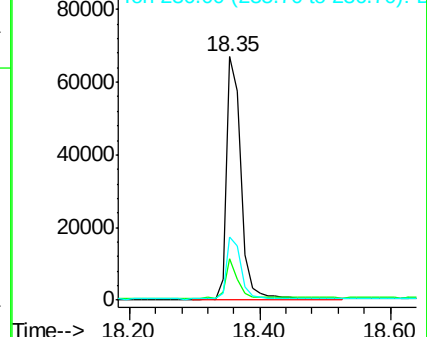
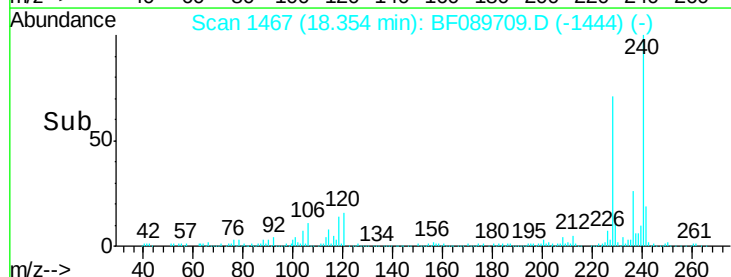
236 25.9 20.6 30.8

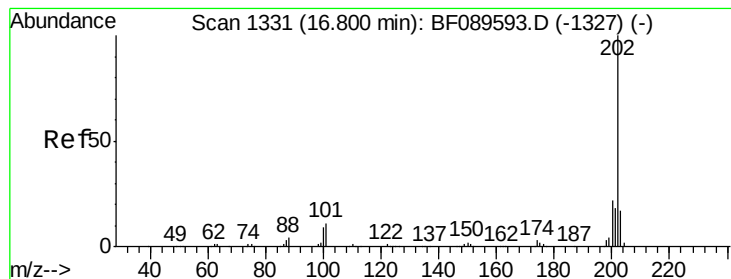


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 19.09 ng

RT: 16.75 min Scan# 1327

Delta R.T. -0.05 min

Lab File: BF089709.D

Acq: 10 Aug 2016 22:15

Instrument :

BNA_F

ClientSampleId :

DEL1(0-6)

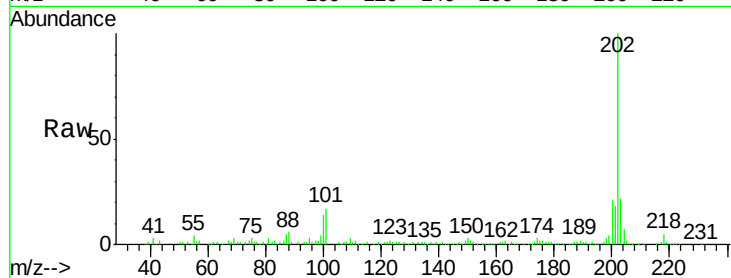
Tgt Ion:202 Resp: 180410

Ion Ratio Lower Upper

202 100

200 21.0 17.4 26.0

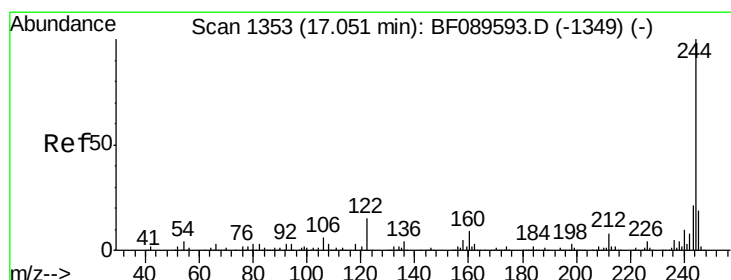
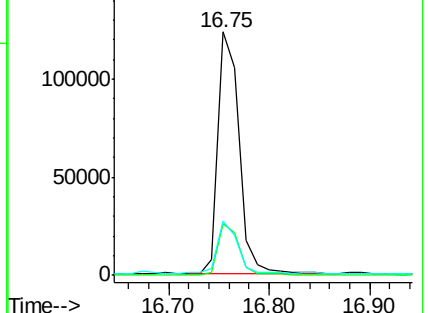
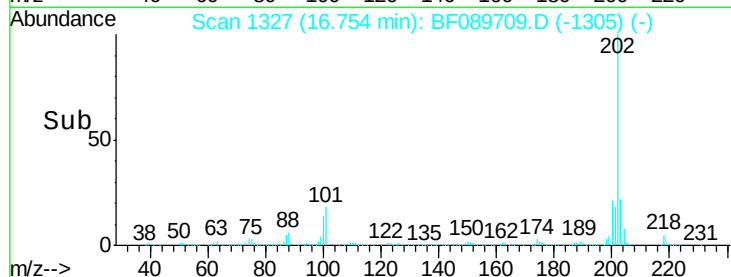
203 22.2 13.6 20.4#



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: 50.62 ng

RT: 17.02 min Scan# 1350

Delta R.T. -0.03 min

Lab File: BF089709.D

Acq: 10 Aug 2016 22:15

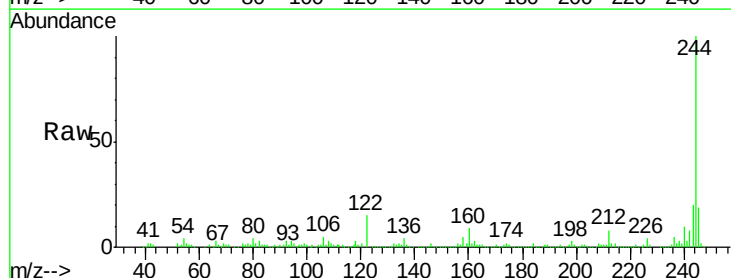
Tgt Ion:244 Resp: 274050

Ion Ratio Lower Upper

244 100

212 8.1 6.4 9.6

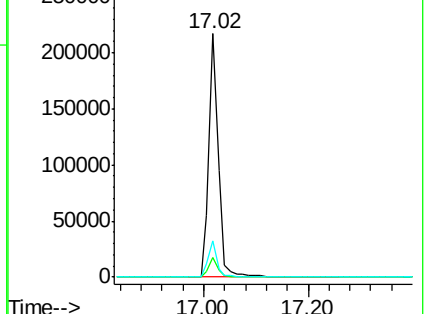
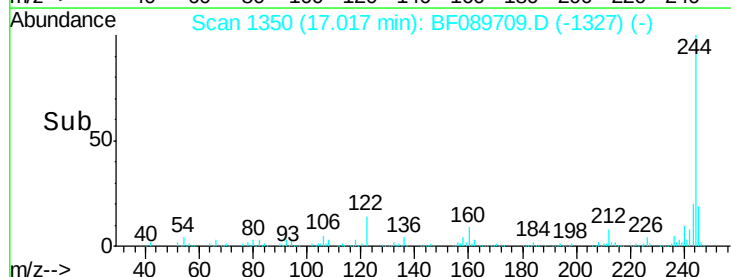
122 14.9 12.2 18.2

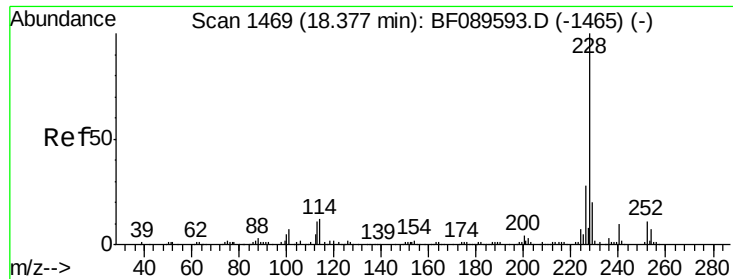


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 14.62 ng

RT: 18.39 min Scan# 1470

Delta R.T. 0.01 min

Lab File: BF089709.D

Acq: 10 Aug 2016 22:15

Instrument :

BNA_F

ClientSampleId :

DEL1(0-6)

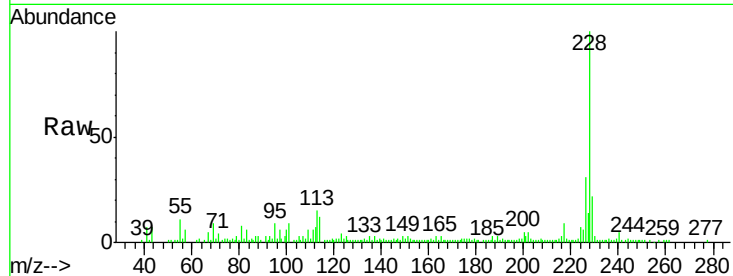
Tgt Ion:228 Resp: 89771

Ion Ratio Lower Upper

228 100

226 30.7 22.3 33.5

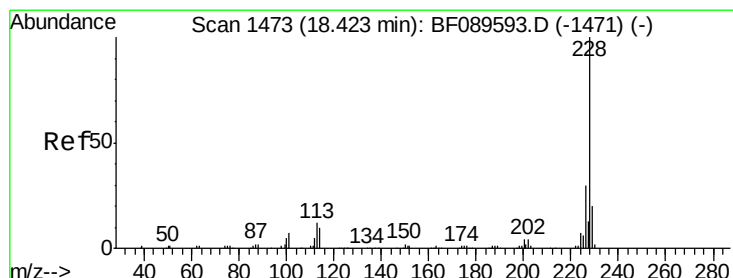
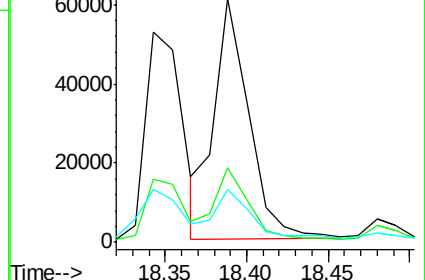
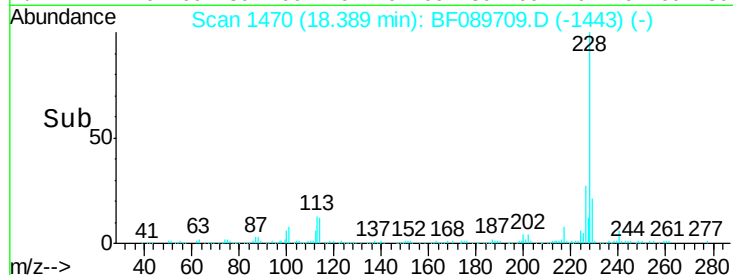
229 21.7 15.9 23.9



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: 13.93 ng

RT: 18.39 min Scan# 1470

Delta R.T. -0.03 min

Lab File: BF089709.D

Acq: 10 Aug 2016 22:15

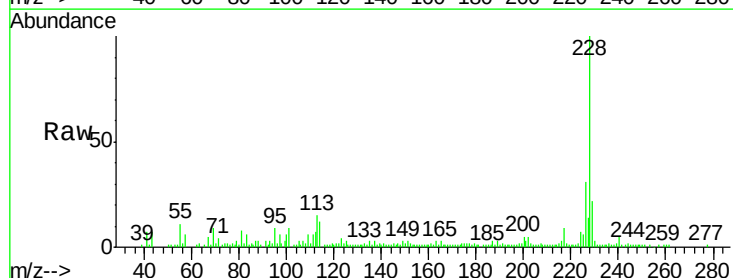
Tgt Ion:228 Resp: 89771

Ion Ratio Lower Upper

228 100

226 30.7 24.2 36.2

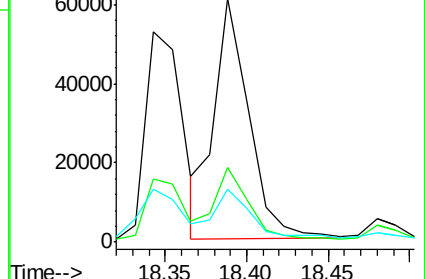
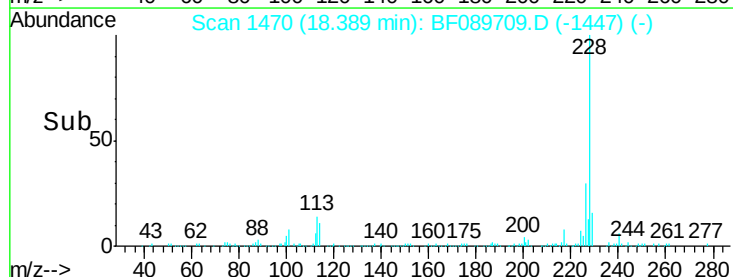
229 21.7 16.0 24.0

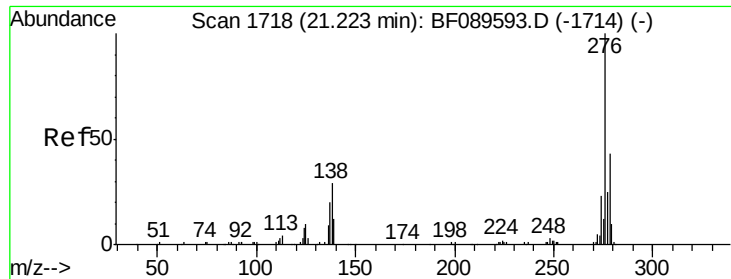


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

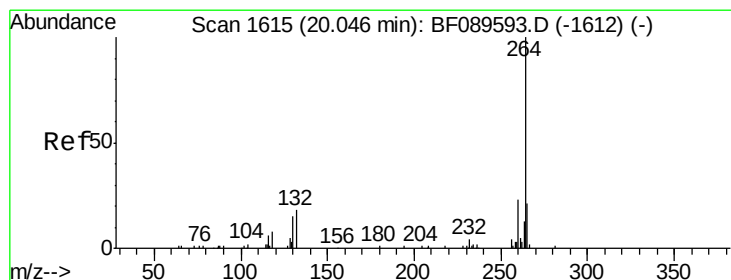
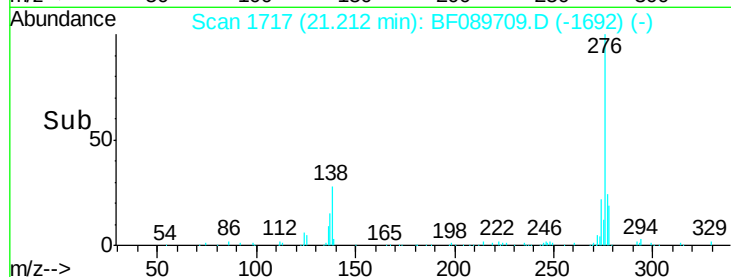
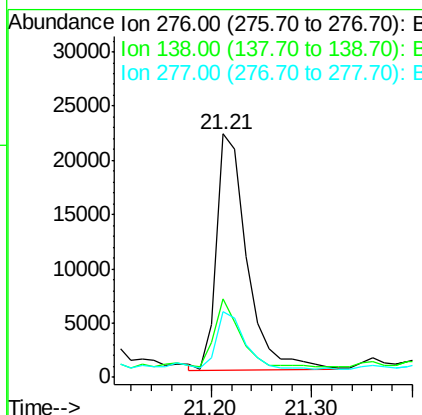
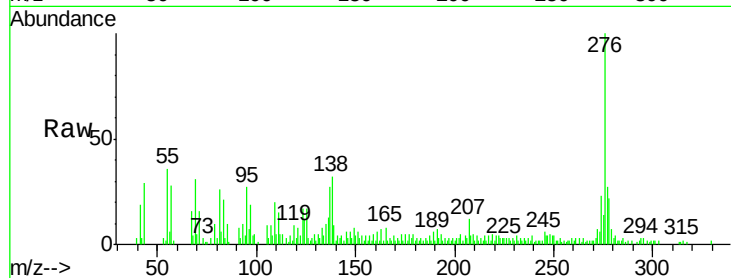




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 9.34 ng
 RT: 21.21 min Scan# 1717
 Delta R.T. -0.01 min
 Lab File: BF089709.D
 Acq: 10 Aug 2016 22:15

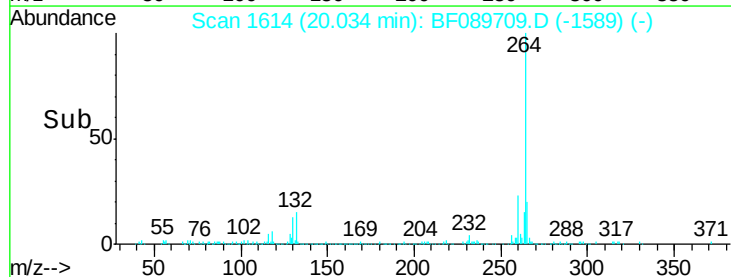
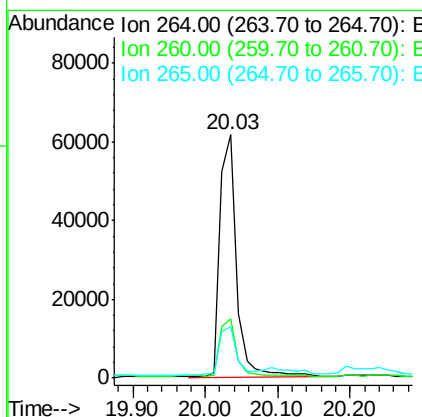
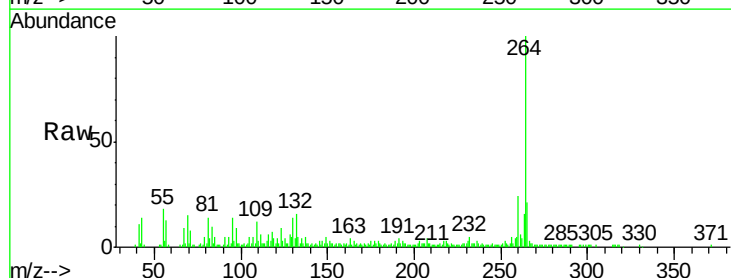
Instrument :
 BNA_F
 ClientSampleId :
 DEL1(0-6)

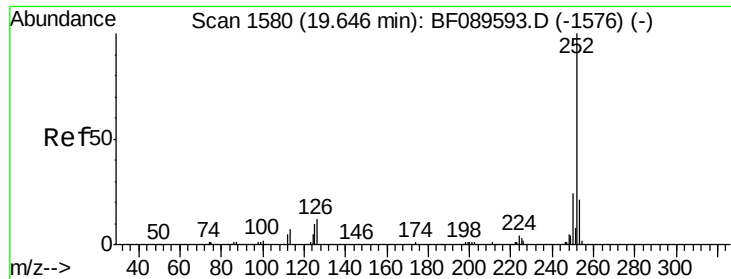
Tgt Ion	Ratio	Lower	Upper
276	100		
138	29.5	23.8	35.8
277	23.7	20.3	30.5



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 20.03 min Scan# 1614
 Delta R.T. -0.01 min
 Lab File: BF089709.D
 Acq: 10 Aug 2016 22:15

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	18.7	28.1
265	21.1	16.5	24.7





#87

Benzo(b)fluoranthene

Concen: 25.33 ng

RT: 19.62 min Scan# 1578

Delta R.T. -0.02 min

Lab File: BF089709.D

Acq: 10 Aug 2016 22:15

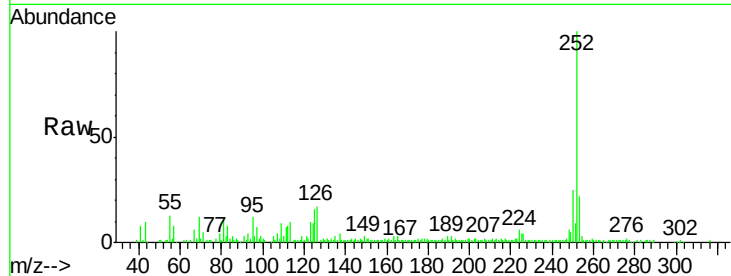
Instrument :

BNA_F

ClientSampleId :

DEL1(0-6)

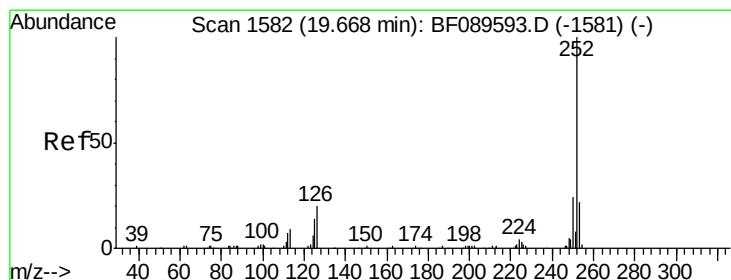
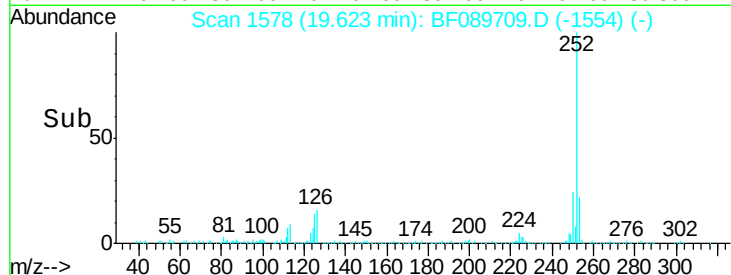
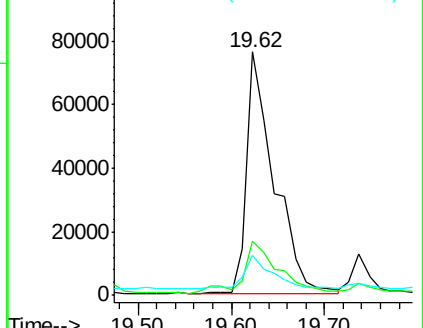
Tgt Ion:	252	Resp:	154957
Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.1	25.7
125	16.5	7.8	11.8#



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: 25.11 ng

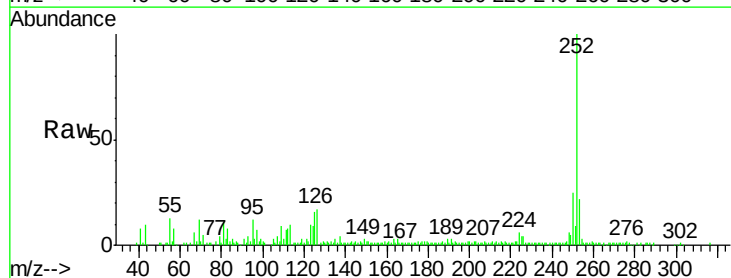
RT: 19.62 min Scan# 1578

Delta R.T. -0.05 min

Lab File: BF089709.D

Acq: 10 Aug 2016 22:15

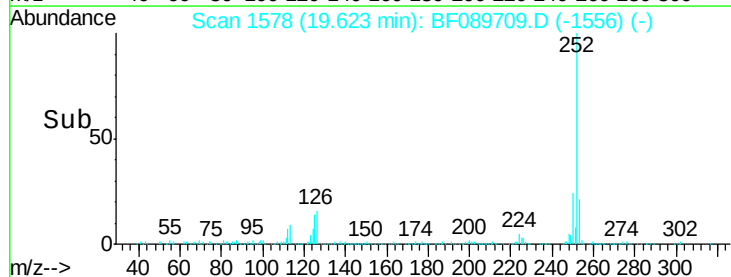
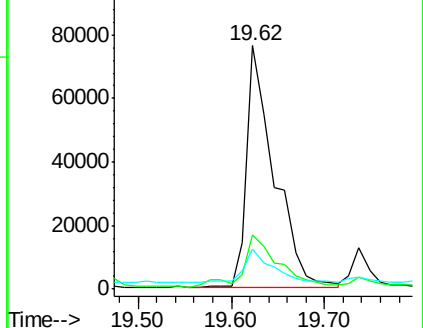
Tgt Ion:	252	Resp:	154957
Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.3	25.9
125	16.5	11.0	16.6

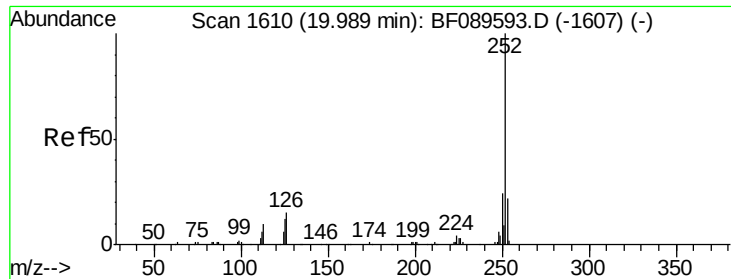


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

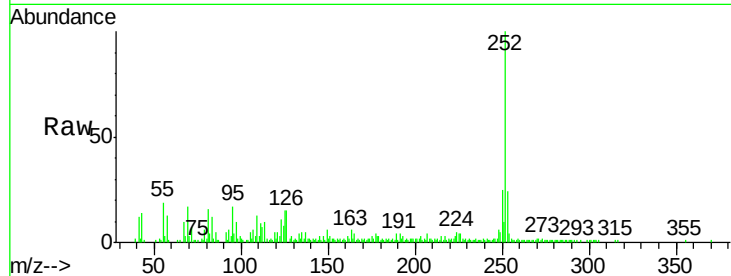




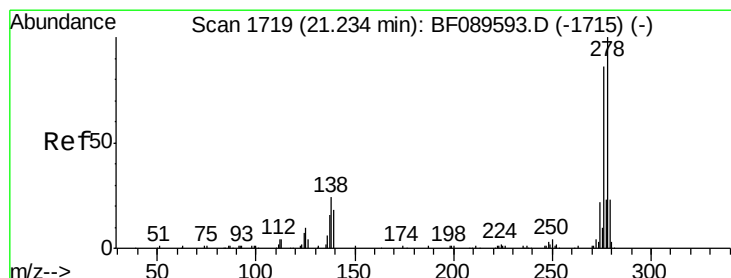
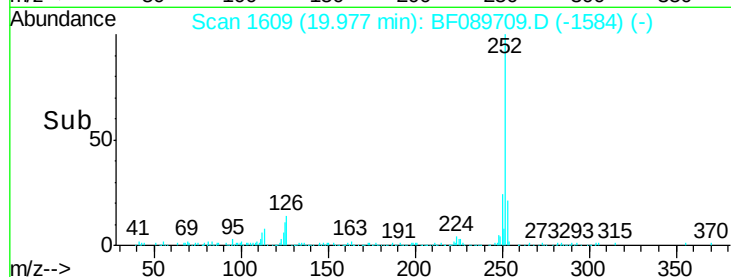
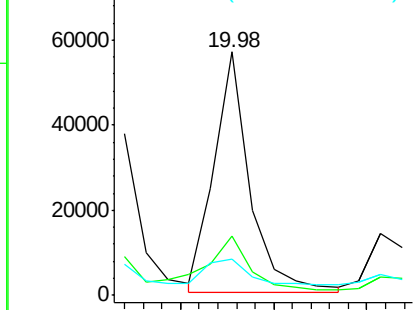
#89
Benzo(a)pyrene
Concen: 13.21 ng
RT: 19.98 min Scan# 1609
Delta R.T. -0.01 min
Lab File: BF089709.D
Acq: 10 Aug 2016 22:15

Instrument :
BNA_F
ClientSampleId :
DEL1(0-6)

Tgt Ion:252 Resp: 75660
Ion Ratio Lower Upper
252 100
253 24.2 17.4 26.0
125 14.8 9.9 14.9

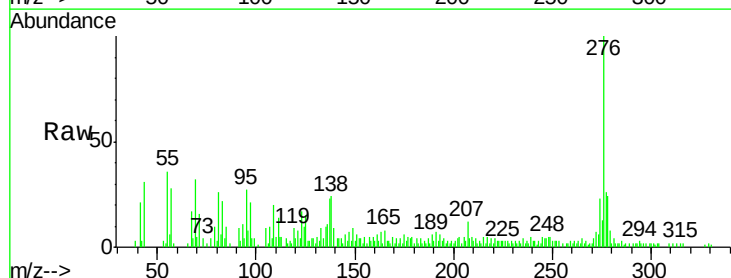


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

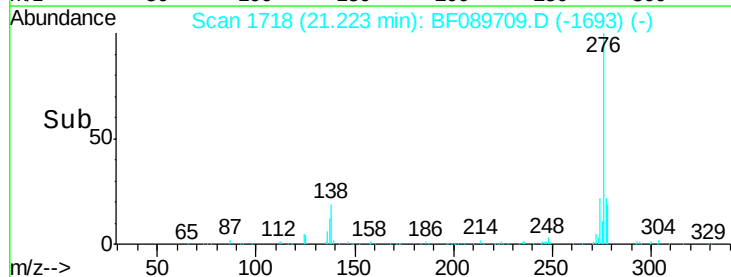
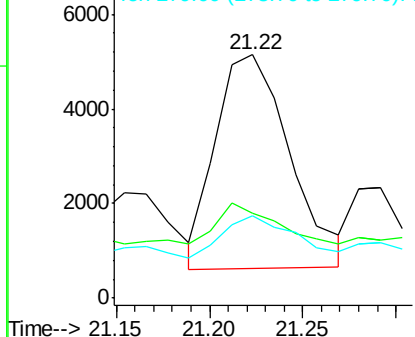


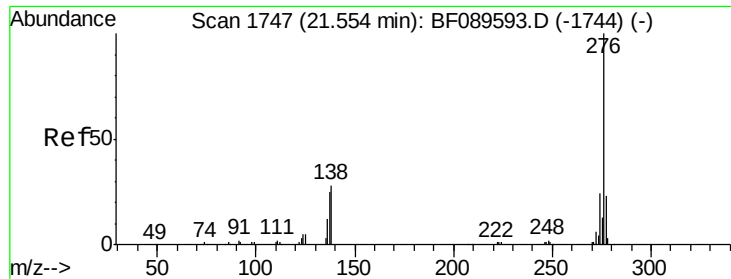
#90
Dibenzo(a,h)anthracene
Concen: 2.34 ng
RT: 21.22 min Scan# 1718
Delta R.T. -0.01 min
Lab File: BF089709.D
Acq: 10 Aug 2016 22:15

Tgt Ion:278 Resp: 12518
Ion Ratio Lower Upper
278 100
139 34.8 14.6 21.8#
279 34.0 18.4 27.6#



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(g,h,i)perylene
 Concen: 7.96 ng
 RT: 21.55 min Scan# 1747
 Delta R.T. 0.00 min
 Lab File: BF089709.D
 Acq: 10 Aug 2016 22:15

Instrument :
 BNA_F
 ClientSampleId :
 DEL1(0-6)

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.2	18.6	28.0
138	26.5	22.6	33.8

