

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081016\
 Data File : BF089712.D
 Acq On : 10 Aug 2016 23:50
 Operator : UM/SJ
 Sample : H4400-05
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DEL2-BASE(66)

Quant Time: Aug 11 01:13:09 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	49091	20.00	ng	-0.05
21) Naphthalene-d8	9.43	136	199956	20.00	ng	-0.05
38) Acenaphthene-d10	12.25	164	84842	20.00	ng	-0.05
63) Phenanthrene-d10	14.64	188	129763	20.00	ng	-0.06
75) Chrysene-d12	18.37	240	104670	20.00	ng	-0.02
86) Perylene-d12	20.02	264	98409	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	227056	77.52	ng	-0.01
7) Phenol-d6	6.96	99	427415	107.57	ng	-0.02
23) Nitrobenzene-d5	8.32	82	264543	73.18	ng	-0.05
41) 2,4,6-Tribromophenol	13.54	330	8650	12.35	ng	-0.05
44) 2-Fluorobiphenyl	11.21	172	484404	74.20	ng	-0.05
78) Terphenyl-d14	17.02	244	304717	57.47	ng	-0.03

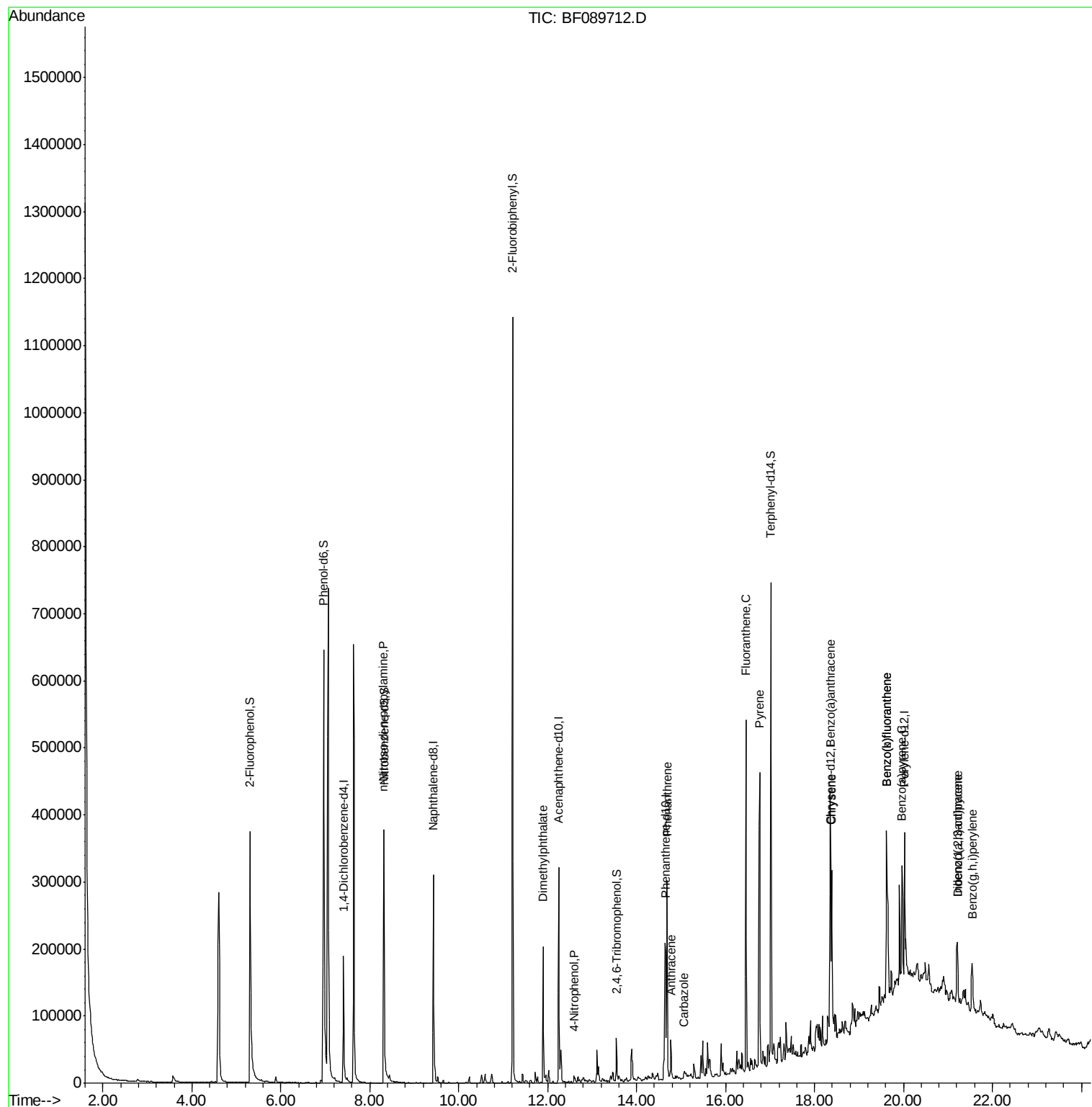
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	8.31	70	32712	11.40	ng	# 82
49) Dimethylphthalate	11.90	163	104484	15.71	ng	99
55) 4-Nitrophenol	12.59	139	3463	9.46	ng	# 21
70) Phenanthrene	14.69	178	168289	23.85	ng	98
71) Anthracene	14.77	178	42899	5.67	ng	97
72) Carbazole	15.07	167	15795	2.51	ng	99
74) Fluoranthene	16.46	202	265475	36.60	ng	100
77) Pyrene	16.77	202	234419	25.33	ng	97
80) Benzo(a)anthracene	18.35	228	120299	20.00	ng	99
82) Chrysene	18.39	228	117249	18.58	ng	99
85) Indeno(1,2,3-cd)pyrene	21.21	276	55767	11.64	ng	98
87) Benzo(b)fluoranthene	19.62	252	191101	31.57	ng	# 94
88) Benzo(k)fluoranthene	19.62	252	191101	31.30	ng	98
89) Benzo(a)pyrene	19.97	252	95465	16.85	ng	# 93
90) Dibenzo(a,h)anthracene	21.21	278	15493	2.93	ng	# 76
91) Benzo(g,h,i)perylene	21.54	276	51332	9.47	ng	95

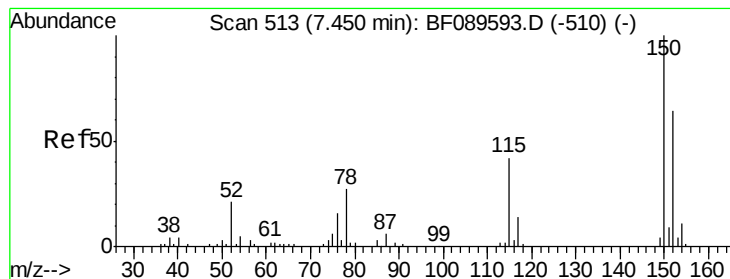
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BF089712.D

Acq: 10 Aug 2016 23:50

Instrument :

BNA_F

ClientSampleId :

DEL2-BASE(66)

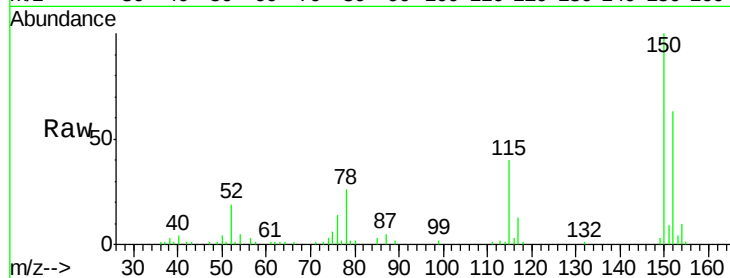
Tgt Ion:152 Resp: 49091

Ion Ratio Lower Upper

152 100

150 159.5 125.5 188.3

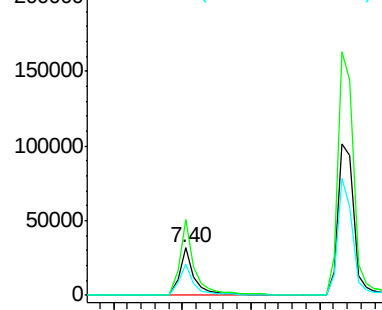
115 64.4 52.0 78.0



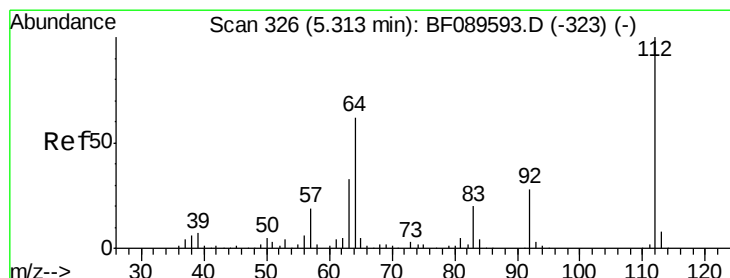
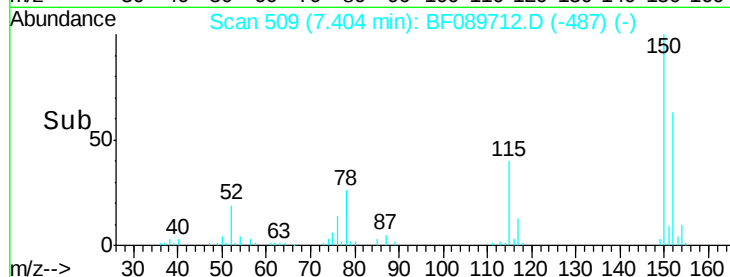
Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



Time-->



#5

2-Fluorophenol

Concen: 77.52 ng

RT: 5.30 min Scan# 325

Delta R.T. -0.01 min

Lab File: BF089712.D

Acq: 10 Aug 2016 23:50

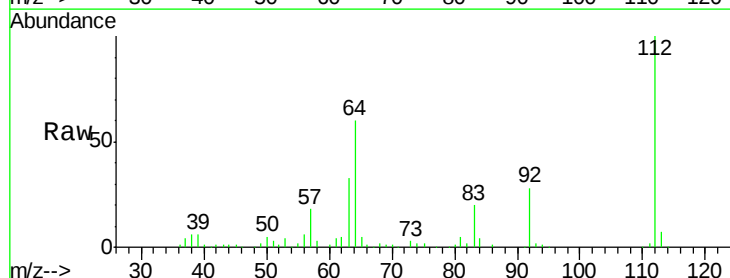
Tgt Ion:112 Resp: 227056

Ion Ratio Lower Upper

112 100

64 59.5 49.9 74.9

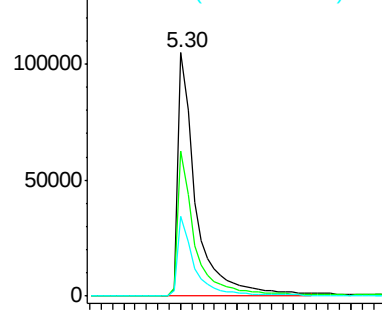
63 32.9 26.1 39.1



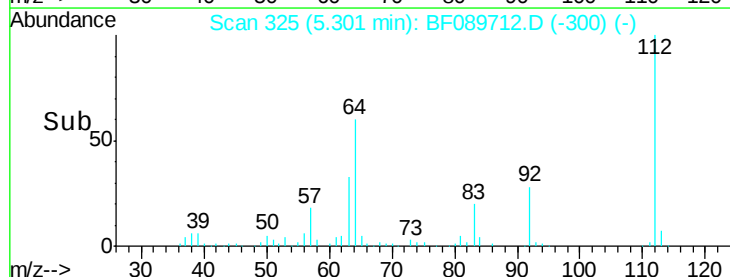
Abundance Ion 112.00 (111.70 to 112.70): E

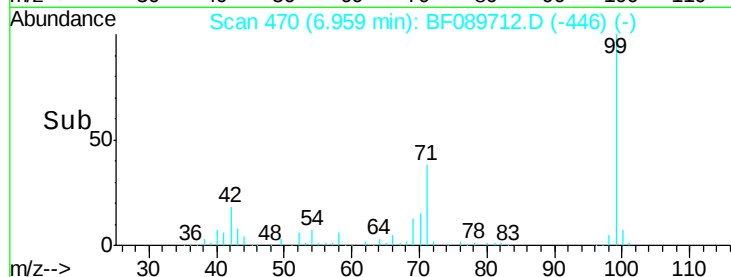
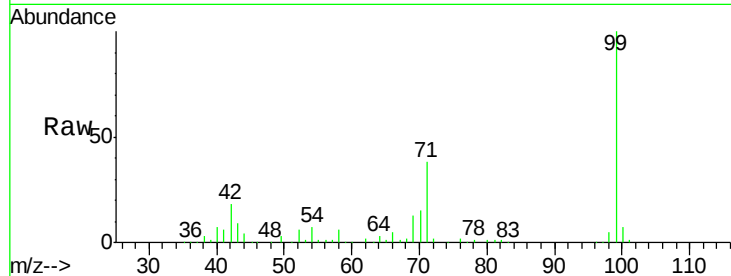
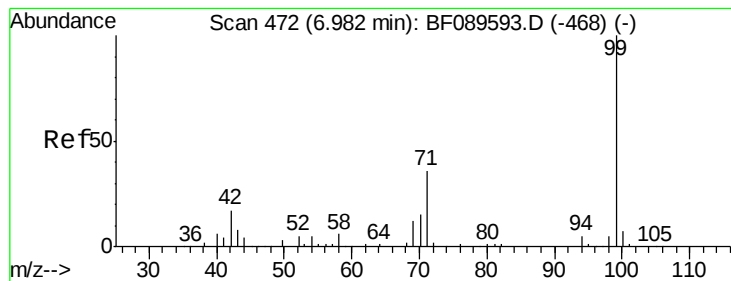
Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



Time-->





#7

Phenol-d6

Concen: 107.57 ng

RT: 6.96 min Scan# 470

Delta R.T. -0.02 min

Lab File: BF089712.D

Acq: 10 Aug 2016 23:50

Instrument :

BNA_F

ClientSampleId :

DEL2-BASE(66)

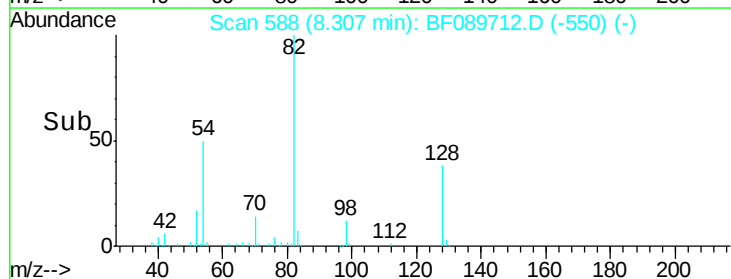
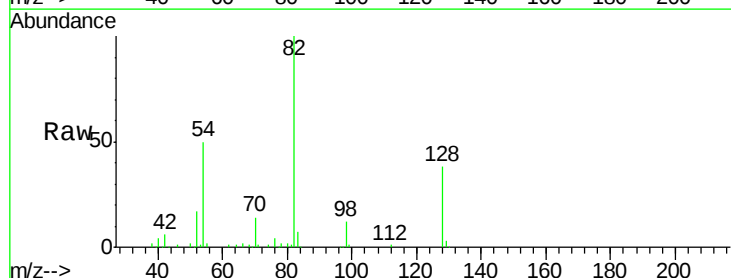
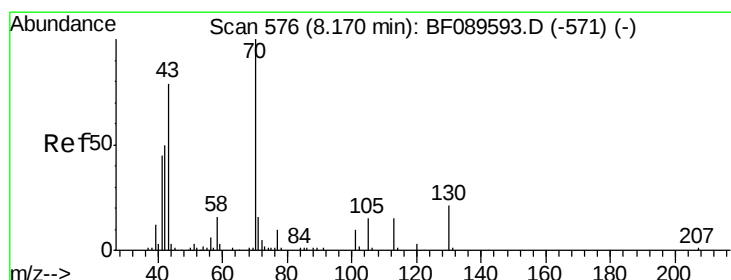
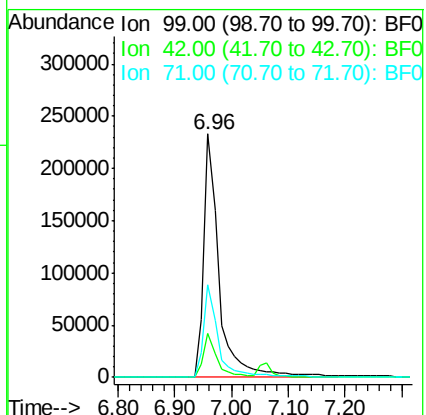
Tgt Ion: 99 Resp: 427415

Ion Ratio Lower Upper

99 100

42 18.0 13.7 20.5

71 38.0 29.0 43.4



#19

n-Nitroso-di-n-propylamine

Concen: 11.40 ng

RT: 8.31 min Scan# 588

Delta R.T. 0.14 min

Lab File: BF089712.D

Acq: 10 Aug 2016 23:50

Tgt Ion: 70 Resp: 32712

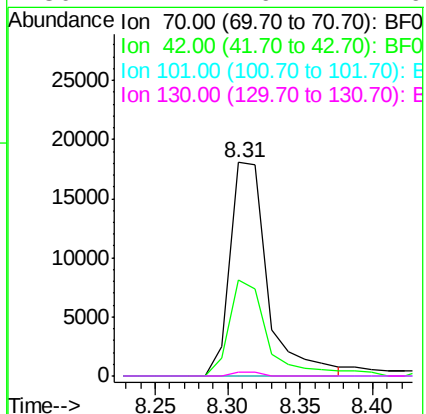
Ion Ratio Lower Upper

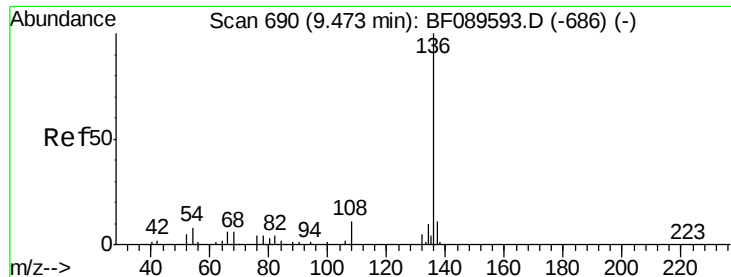
70 100

42 45.2 40.2 60.2

101 0.0 7.8 11.6#

130 2.1 16.4 24.6#

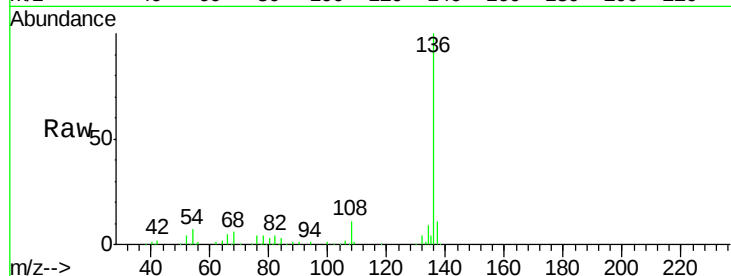




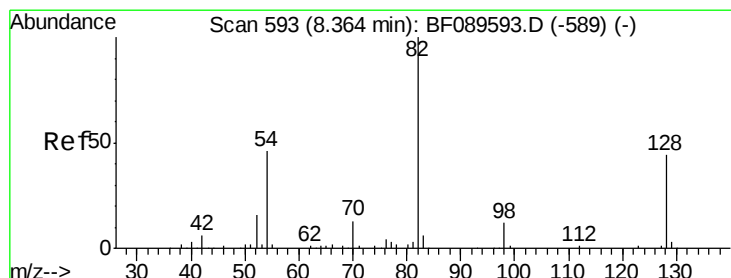
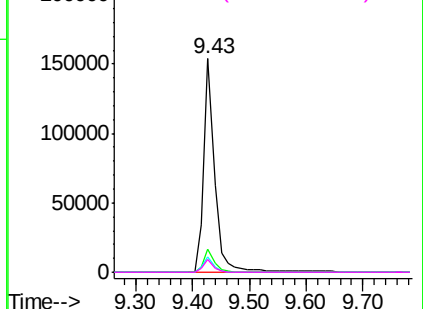
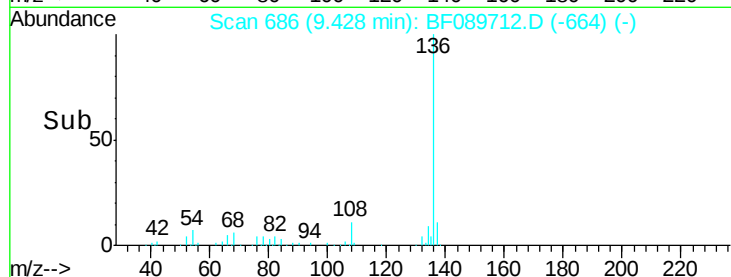
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.43 min Scan# 686
Delta R.T. -0.05 min
Lab File: BF089712.D
Acq: 10 Aug 2016 23:50

Instrument :
BNA_F
ClientSampleId :
DEL2-BASE(66)

Tgt Ion:	136	Resp:	199956
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	12.8
54	7.2	6.0	9.0
68	5.9	4.6	6.8

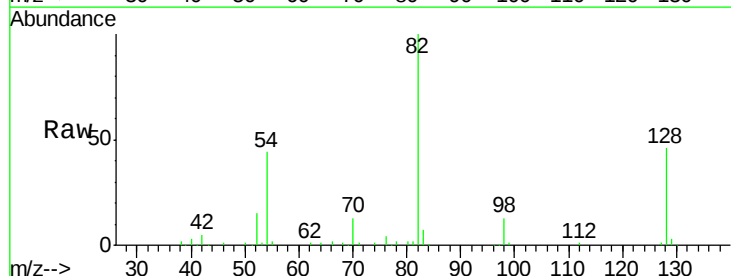


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

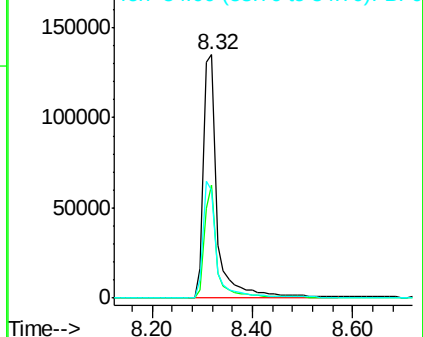
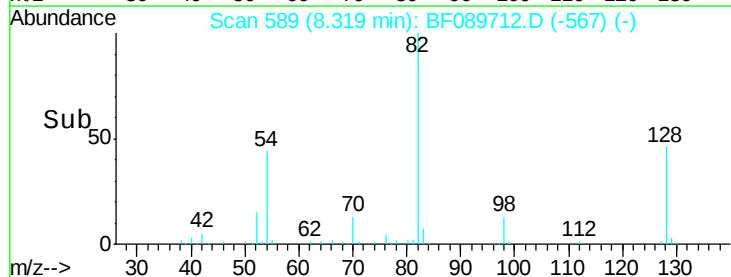


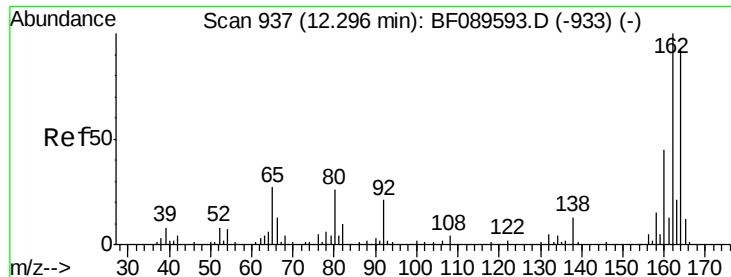
#23
Nitrobenzene-d5
Concen: 73.18 ng
RT: 8.32 min Scan# 589
Delta R.T. -0.05 min
Lab File: BF089712.D
Acq: 10 Aug 2016 23:50

Tgt Ion:	82	Resp:	264543
Ion	Ratio	Lower	Upper
82	100		
128	46.2	35.4	53.0
54	44.1	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

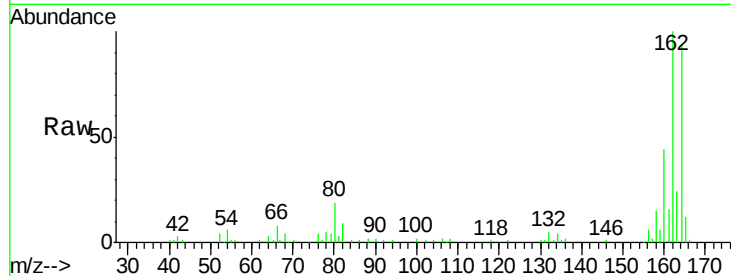




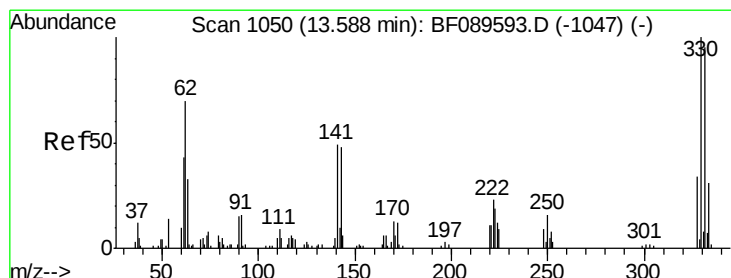
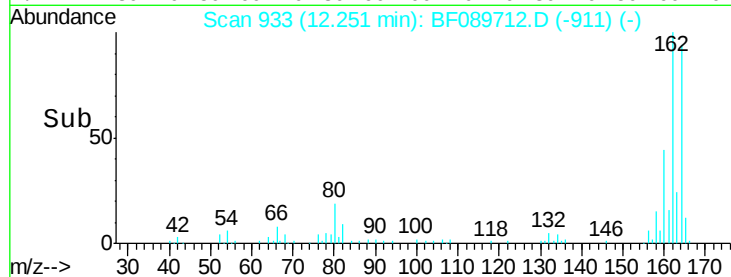
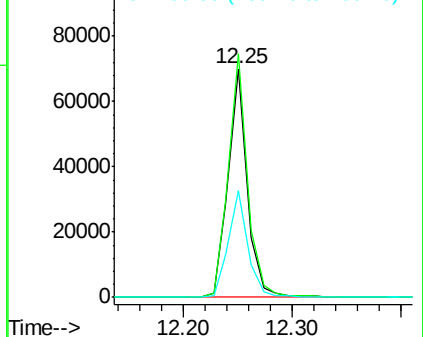
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.25 min Scan# 933
 Delta R.T. -0.05 min
 Lab File: BF089712.D
 Acq: 10 Aug 2016 23:50

Instrument :
 BNA_F
 ClientSampleId :
 DEL2-BASE(66)

Tgt Ion:164 Resp: 84842
 Ion Ratio Lower Upper
 164 100
 162 106.6 85.7 128.5
 160 46.4 38.2 57.4

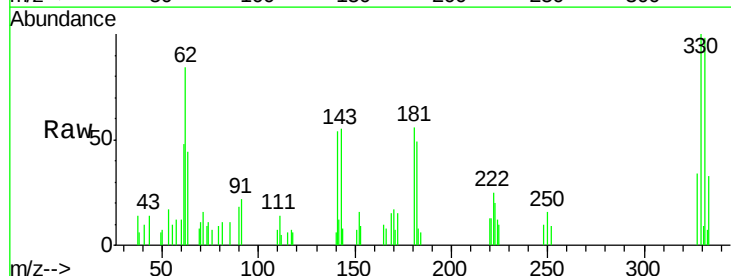


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

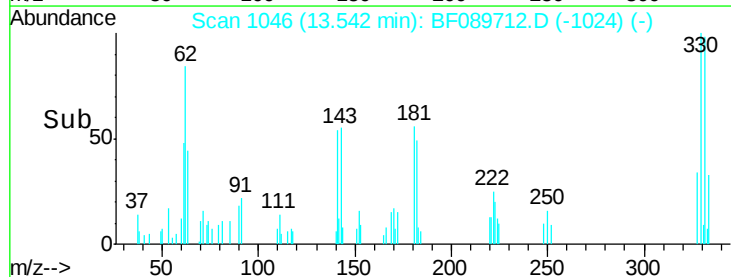
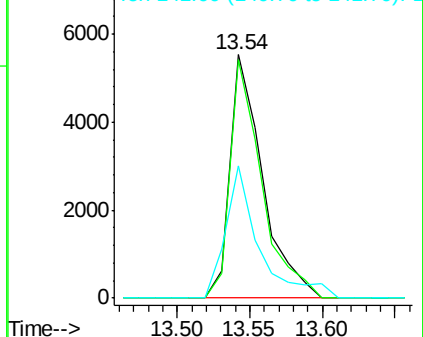


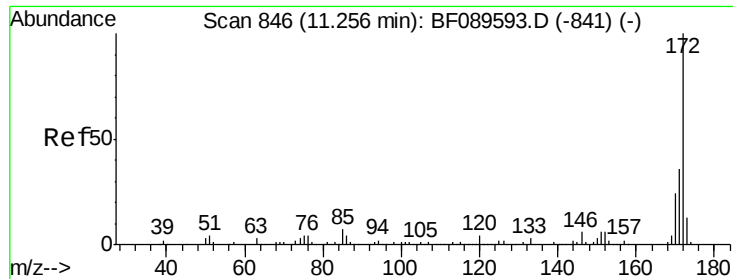
#41
 2,4,6-Tribromophenol
 Concen: 12.35 ng
 RT: 13.54 min Scan# 1046
 Delta R.T. -0.05 min
 Lab File: BF089712.D
 Acq: 10 Aug 2016 23:50

Tgt Ion:330 Resp: 8650
 Ion Ratio Lower Upper
 330 100
 332 94.6 77.0 115.6
 141 55.6 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

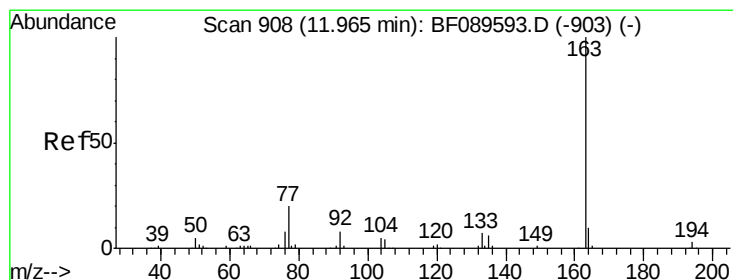
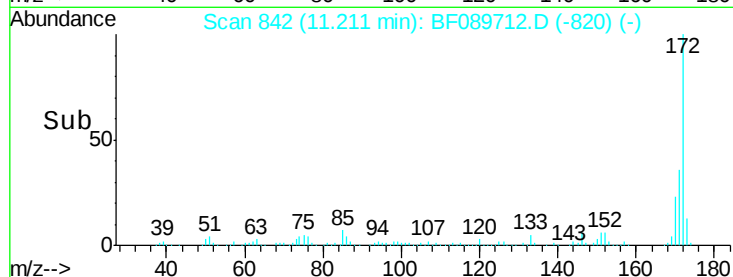
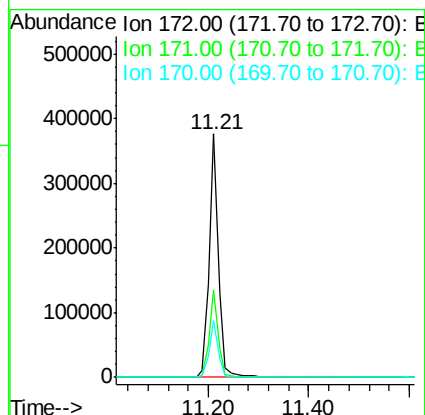
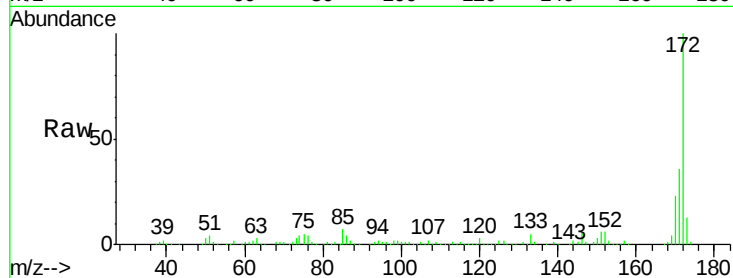




#44
2-Fluorobiphenyl
Concen: 74.20 ng
RT: 11.21 min Scan# 842
Delta R.T. -0.05 min
Lab File: BF089712.D
Acq: 10 Aug 2016 23:50

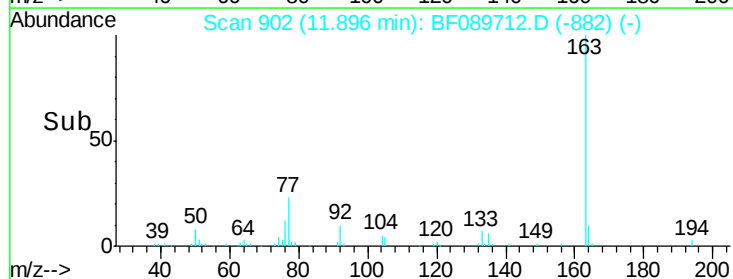
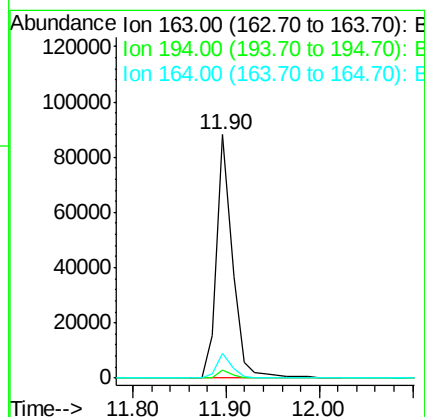
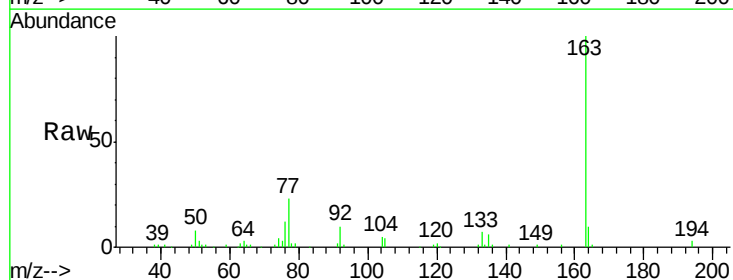
Instrument :
BNA_F
ClientSampleId :
DEL2-BASE(66)

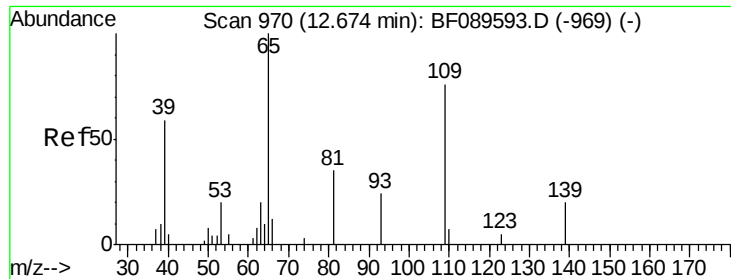
Tgt Ion:172 Resp: 484404
Ion Ratio Lower Upper
172 100
171 36.1 28.9 43.3
170 23.3 19.0 28.6



#49
Dimethylphthalate
Concen: 15.71 ng
RT: 11.90 min Scan# 902
Delta R.T. -0.07 min
Lab File: BF089712.D
Acq: 10 Aug 2016 23:50

Tgt Ion:163 Resp: 104484
Ion Ratio Lower Upper
163 100
194 3.2 2.7 4.1
164 10.1 7.8 11.6

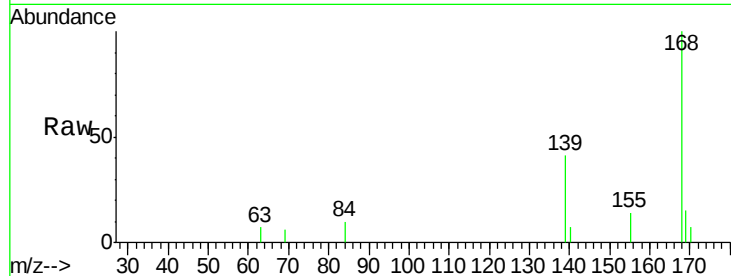




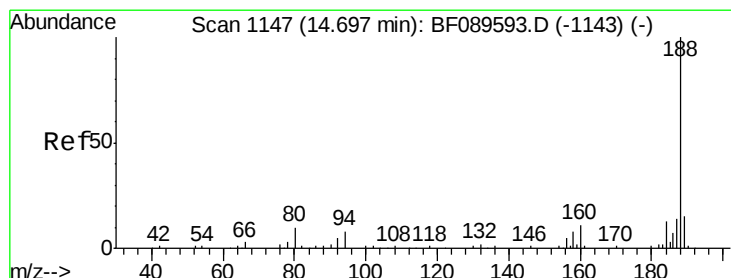
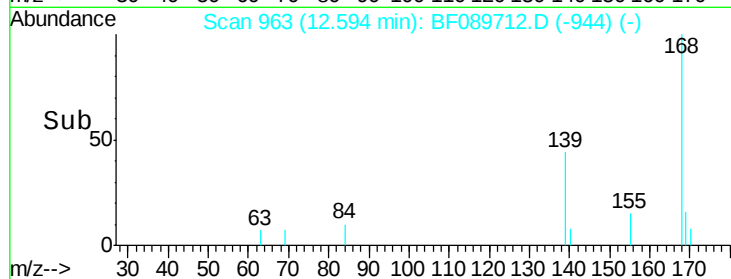
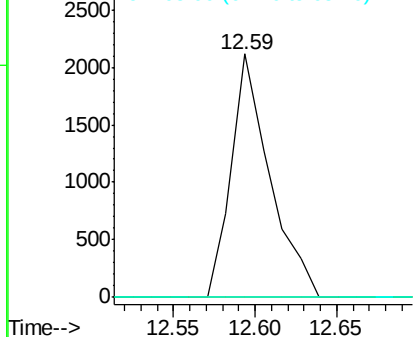
#55
 4-Nitrophenol
 Concen: 9.46 ng
 RT: 12.59 min Scan# 963
 Delta R.T. -0.08 min
 Lab File: BF089712.D
 Acq: 10 Aug 2016 23:50

Instrument :
 BNA_F
 ClientSampleId :
 DEL2-BASE(66)

Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.0	28.9	68.9#
65	0.0	49.2	89.2#

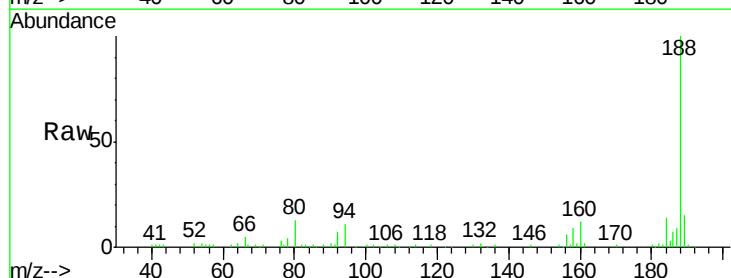


Abundance Ion 139.00 (138.70 to 139.70): E
 Ion 109.00 (108.70 to 109.70): E
 Ion 65.00 (64.70 to 65.70): BF0

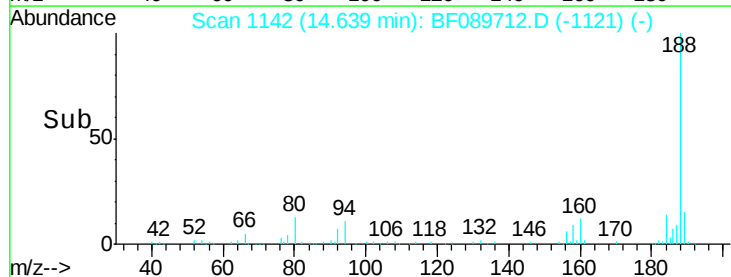
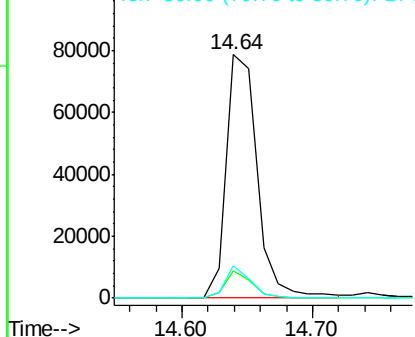


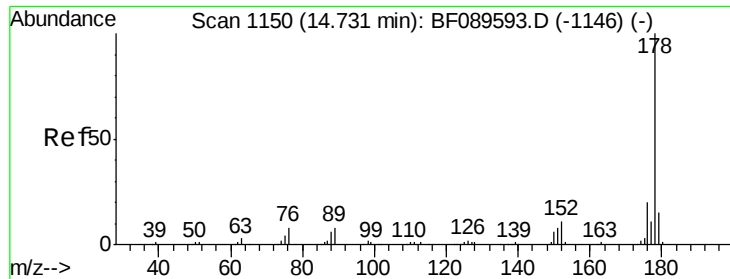
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.64 min Scan# 1142
 Delta R.T. -0.06 min
 Lab File: BF089712.D
 Acq: 10 Aug 2016 23:50

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.2	6.5	9.7#
80	13.3	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

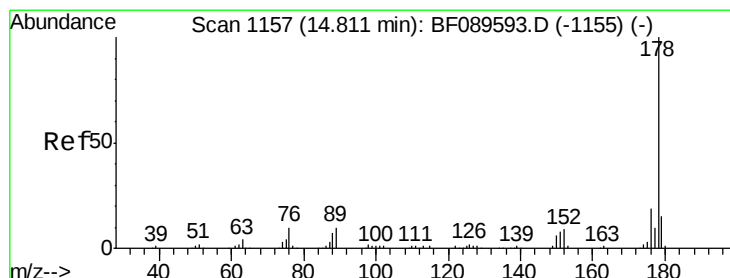
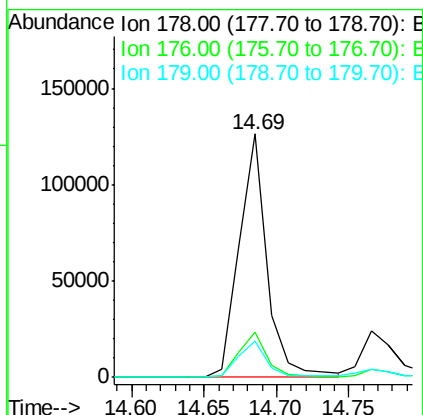
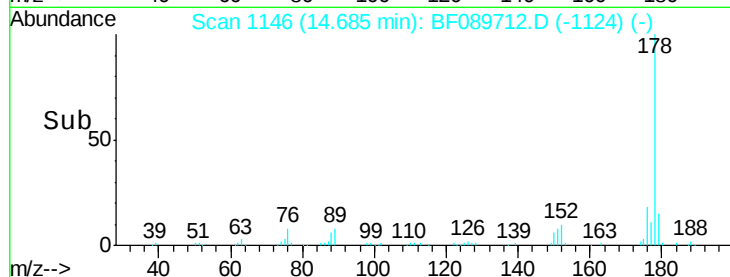
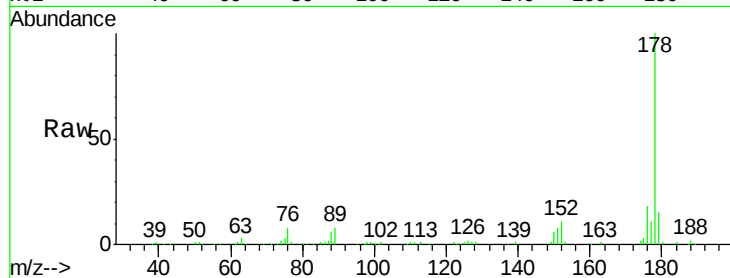




#70
Phenanthrene
Concen: 23.85 ng
RT: 14.69 min Scan# 1146
Delta R.T. -0.05 min
Lab File: BF089712.D
Acq: 10 Aug 2016 23:50

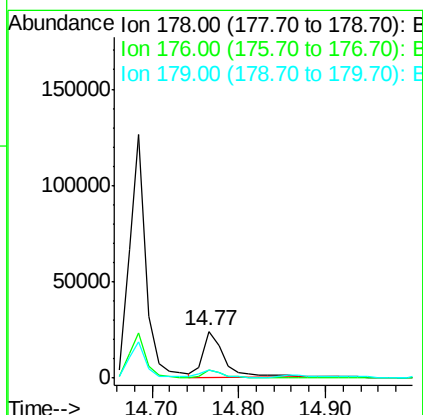
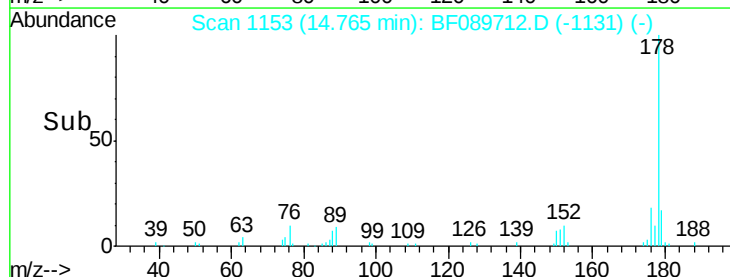
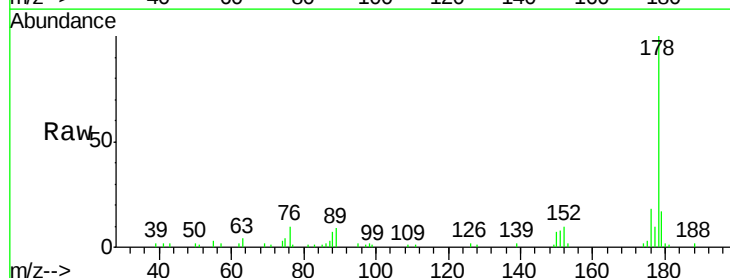
Instrument :
BNA_F
ClientSampleId :
DEL2-BASE(66)

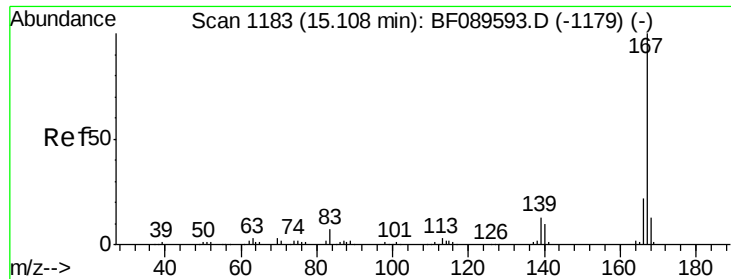
Tgt Ion:178 Resp: 168289
Ion Ratio Lower Upper
178 100
176 18.4 15.7 23.5
179 15.0 12.2 18.2



#71
Anthracene
Concen: 5.67 ng
RT: 14.77 min Scan# 1153
Delta R.T. -0.05 min
Lab File: BF089712.D
Acq: 10 Aug 2016 23:50

Tgt Ion:178 Resp: 42899
Ion Ratio Lower Upper
178 100
176 18.0 15.0 22.4
179 17.1 12.4 18.6

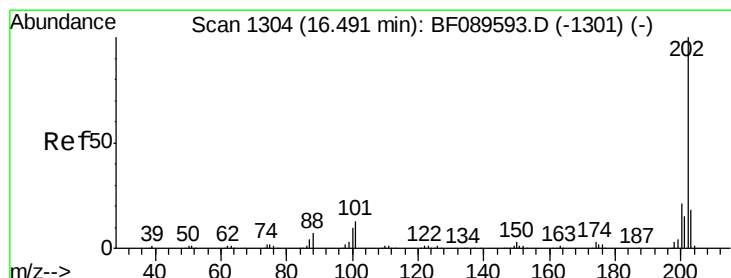
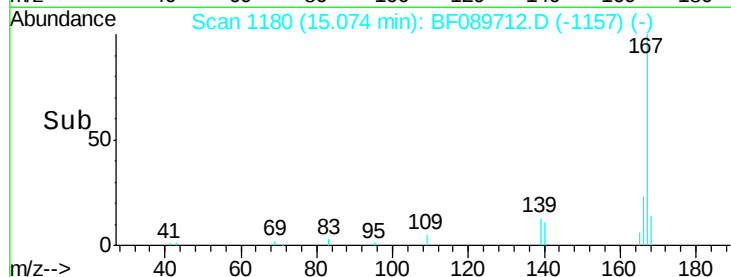
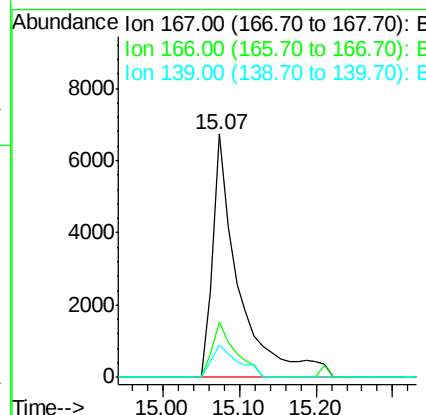
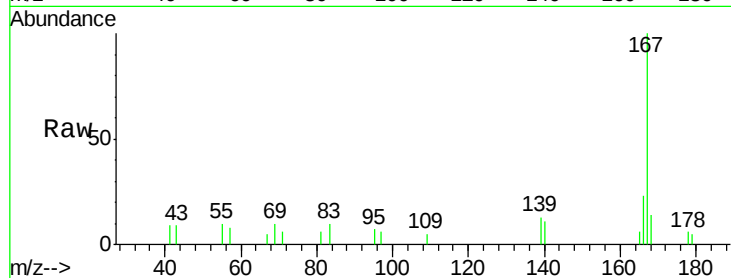




#72
 Carbazole
 Concen: 2.51 ng
 RT: 15.07 min Scan# 1180
 Delta R.T. -0.03 min
 Lab File: BF089712.D
 Acq: 10 Aug 2016 23:50

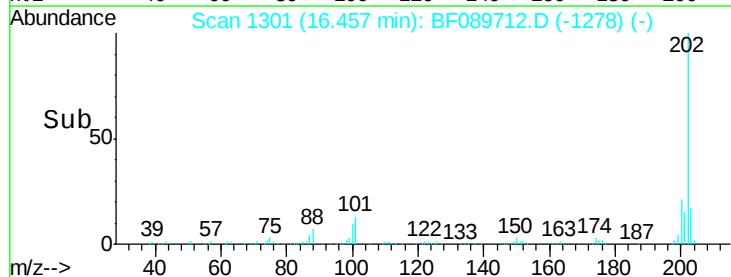
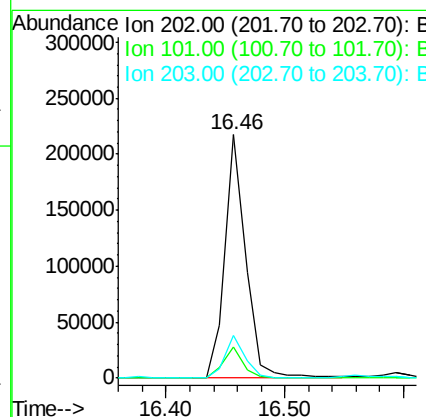
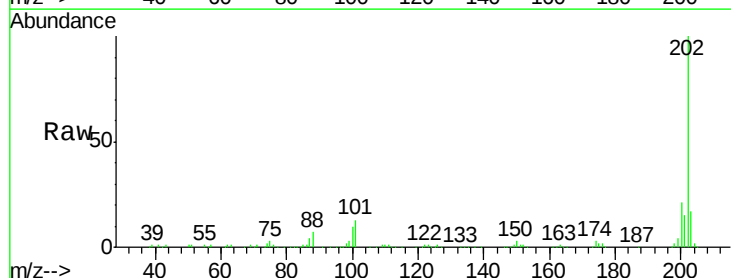
Instrument :
 BNA_F
 ClientSampleId :
 DEL2-BASE(66)

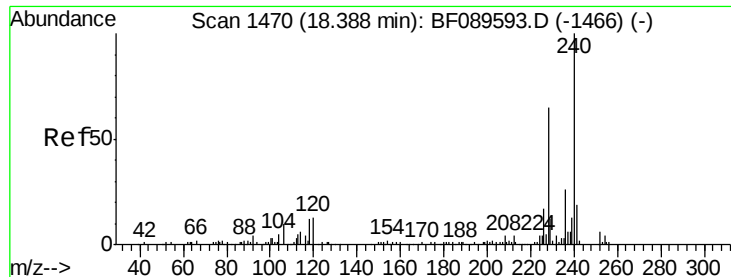
Tgt Ion:167 Resp: 15795
 Ion Ratio Lower Upper
 167 100
 166 22.5 17.5 26.3
 139 13.5 10.4 15.6



#74
 Fluoranthene
 Concen: 36.60 ng
 RT: 16.46 min Scan# 1301
 Delta R.T. -0.03 min
 Lab File: BF089712.D
 Acq: 10 Aug 2016 23:50

Tgt Ion:202 Resp: 265475
 Ion Ratio Lower Upper
 202 100
 101 12.7 0.0 32.7
 203 17.4 0.0 37.8





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.37 min Scan# 1468

Delta R.T. -0.02 min

Lab File: BF089712.D

Acq: 10 Aug 2016 23:50

Instrument :

BNA_F

ClientSampleId :

DEL2-BASE(66)

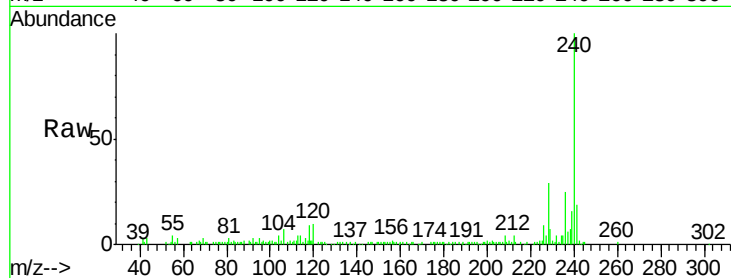
Tgt Ion:240 Resp: 104670

Ion Ratio Lower Upper

240 100

120 9.6 10.6 15.8#

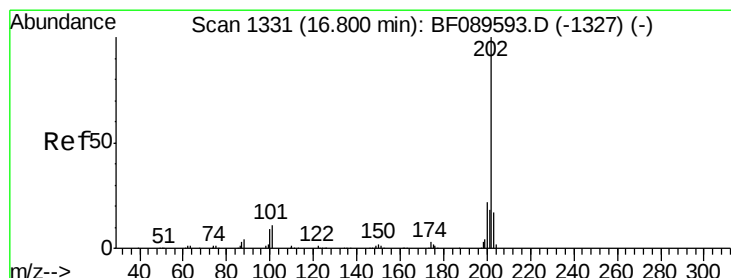
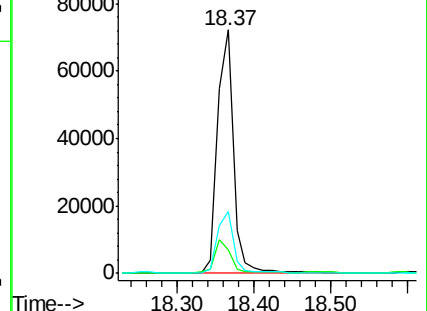
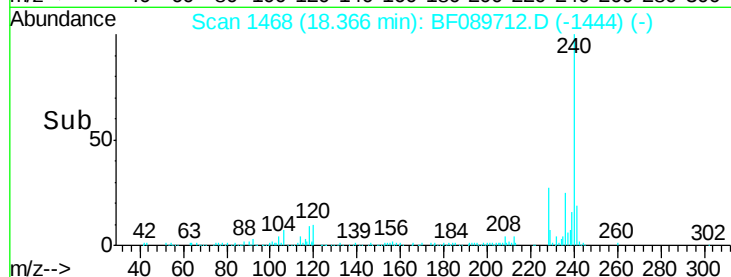
236 25.3 20.6 30.8



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: 25.33 ng

RT: 16.77 min Scan# 1328

Delta R.T. -0.03 min

Lab File: BF089712.D

Acq: 10 Aug 2016 23:50

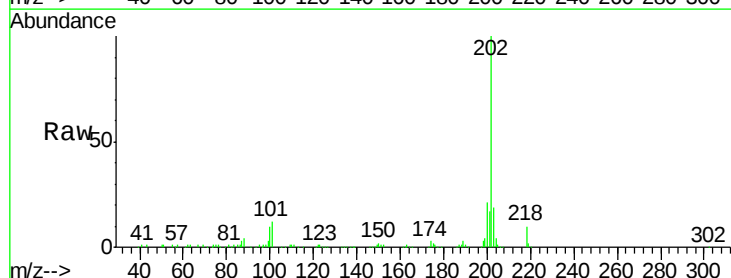
Tgt Ion:202 Resp: 234419

Ion Ratio Lower Upper

202 100

200 21.0 17.4 26.0

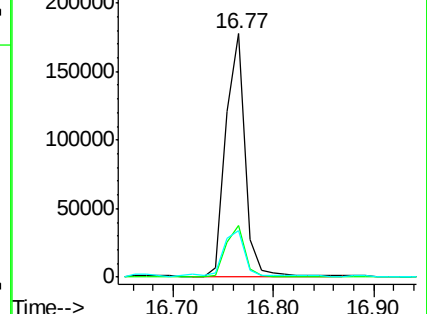
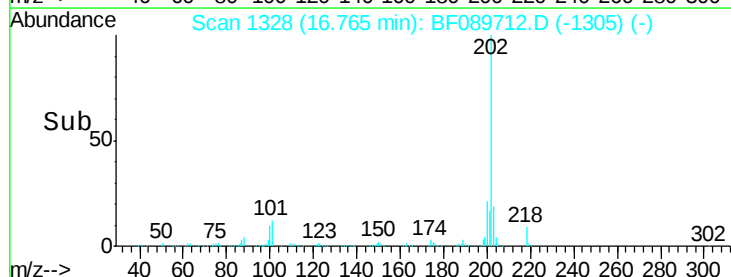
203 19.0 13.6 20.4

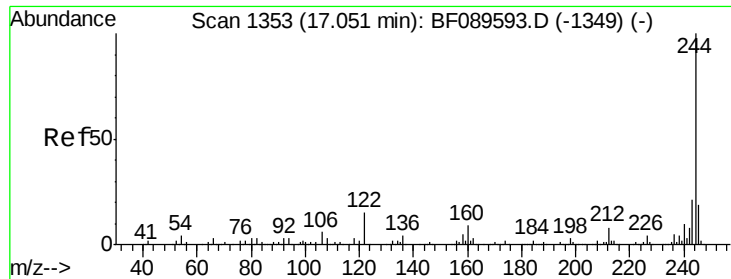


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

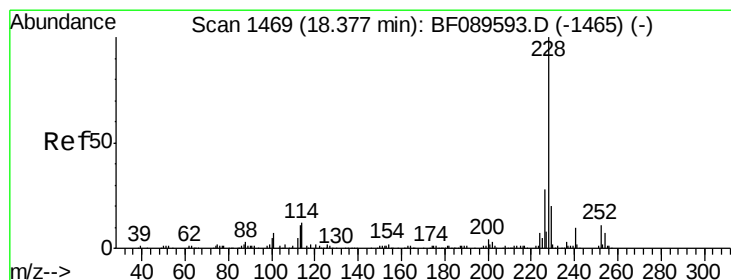
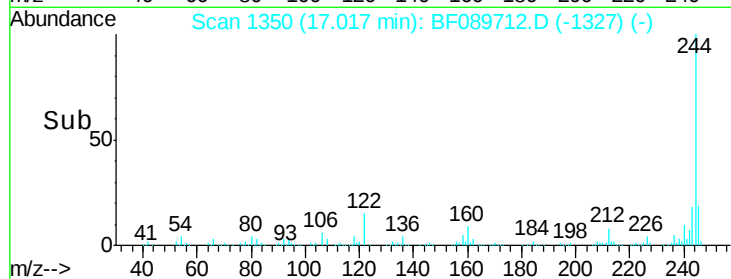
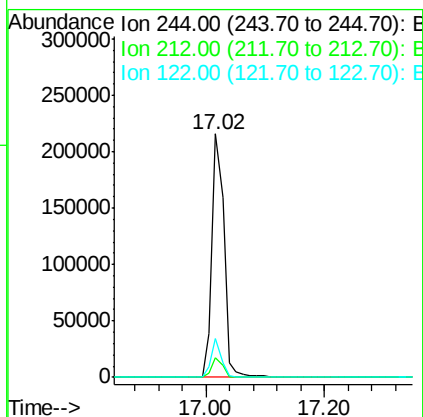
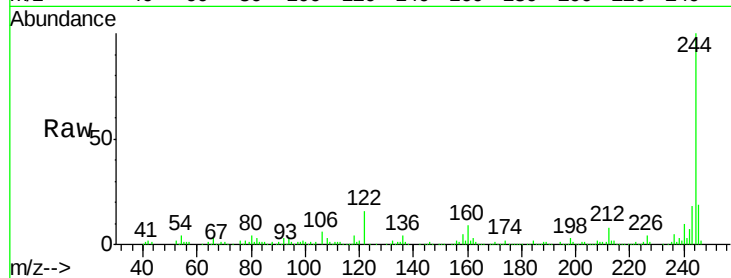




#78
 Terphenyl-d14
 Concen: 57.47 ng
 RT: 17.02 min Scan# 1350
 Delta R.T. -0.03 min
 Lab File: BF089712.D
 Acq: 10 Aug 2016 23:50

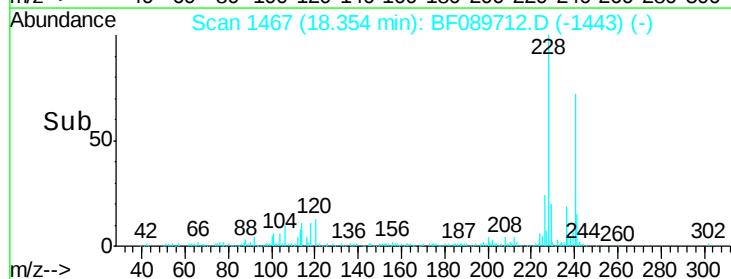
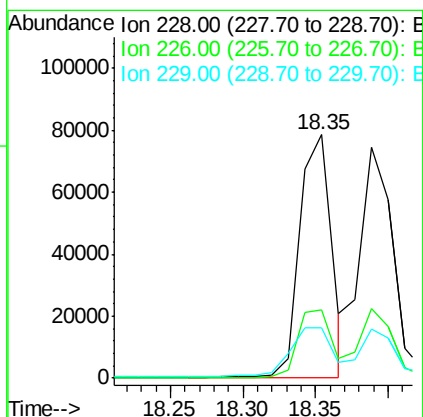
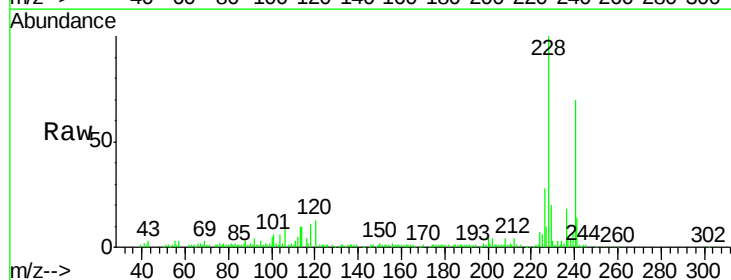
Instrument :
 BNA_F
 ClientSampleId :
 DEL2-BASE(66)

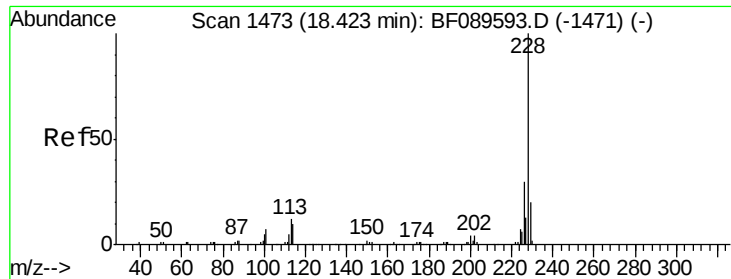
Tgt Ion:244 Resp: 304717
 Ion Ratio Lower Upper
 244 100
 212 8.0 6.4 9.6
 122 15.7 12.2 18.2



#80
 Benzo(a)anthracene
 Concen: 20.00 ng
 RT: 18.35 min Scan# 1467
 Delta R.T. -0.02 min
 Lab File: BF089712.D
 Acq: 10 Aug 2016 23:50

Tgt Ion:228 Resp: 120299
 Ion Ratio Lower Upper
 228 100
 226 27.9 22.3 33.5
 229 20.4 15.9 23.9





#82

Chrysene

Concen: 18.58 ng

RT: 18.39 min Scan# 1470

Delta R.T. -0.03 min

Lab File: BF089712.D

Acq: 10 Aug 2016 23:50

Instrument :

BNA_F

ClientSampleId :

DEL2-BASE(66)

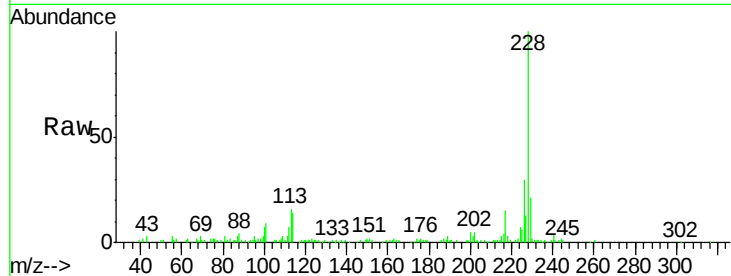
Tgt Ion:228 Resp: 117249

Ion Ratio Lower Upper

228 100

226 30.2 24.2 36.2

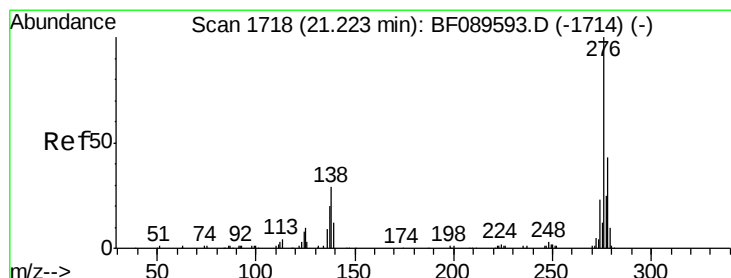
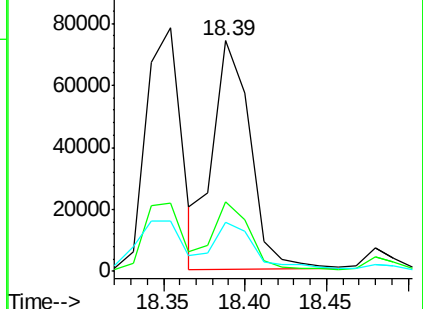
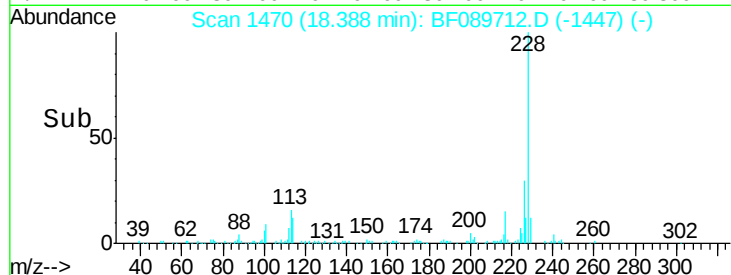
229 21.4 16.0 24.0



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: 11.64 ng

RT: 21.21 min Scan# 1717

Delta R.T. -0.01 min

Lab File: BF089712.D

Acq: 10 Aug 2016 23:50

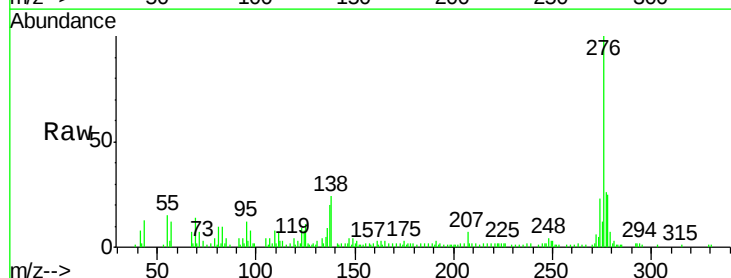
Tgt Ion:276 Resp: 55767

Ion Ratio Lower Upper

276 100

138 29.2 23.8 35.8

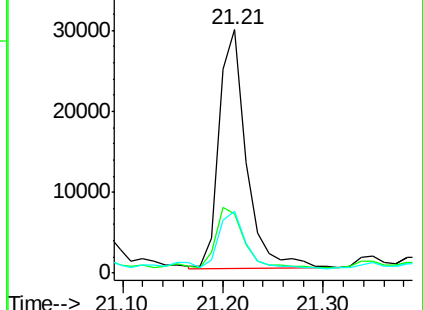
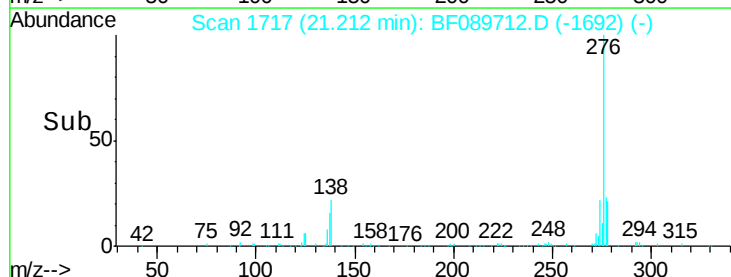
277 24.1 20.3 30.5

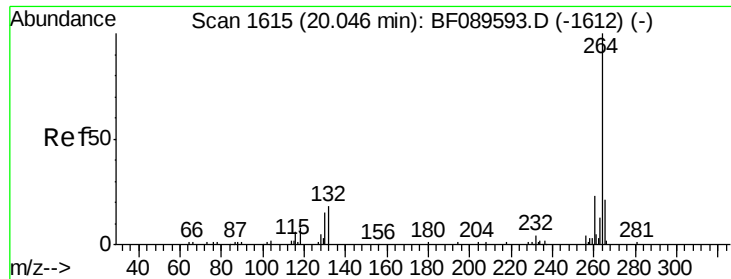


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Perylene-d12

Concen: 20.00 ng

RT: 20.02 min Scan# 1613

Delta R.T. -0.02 min

Lab File: BF089712.D

Acq: 10 Aug 2016 23:50

Instrument :

BNA_F

ClientSampleId :

DEL2-BASE(66)

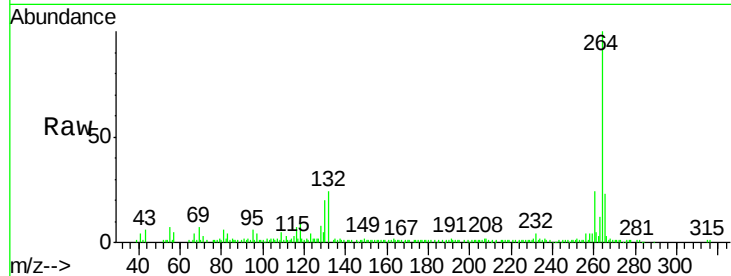
Tgt Ion:264 Resp: 98409

Ion Ratio Lower Upper

264 100

260 23.9 18.7 28.1

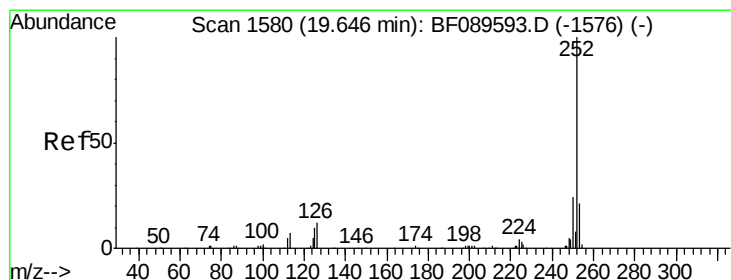
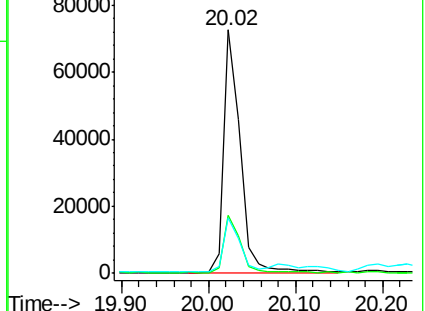
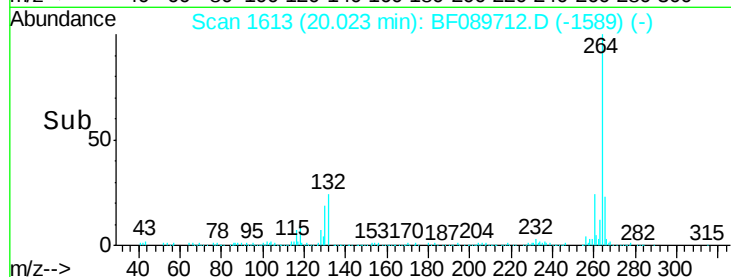
265 22.5 16.5 24.7



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: 31.57 ng

RT: 19.62 min Scan# 1578

Delta R.T. -0.02 min

Lab File: BF089712.D

Acq: 10 Aug 2016 23:50

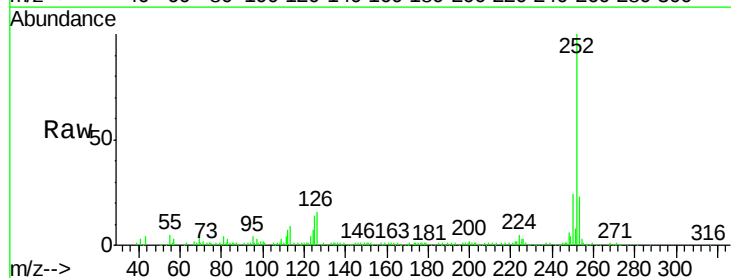
Tgt Ion:252 Resp: 191101

Ion Ratio Lower Upper

252 100

253 22.6 17.1 25.7

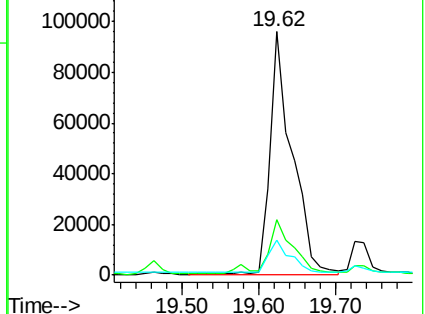
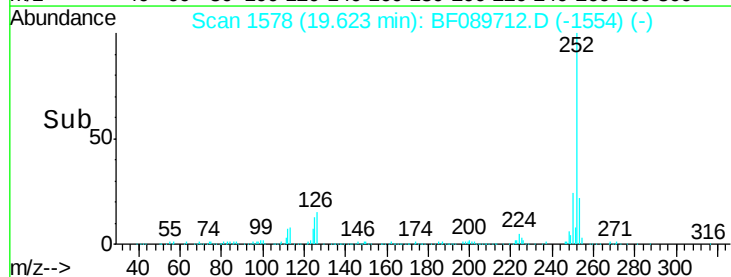
125 14.3 7.8 11.8#

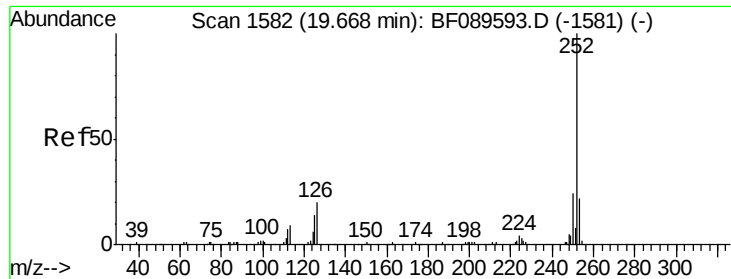


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 31.30 ng

RT: 19.62 min Scan# 1578

Delta R.T. -0.05 min

Lab File: BF089712.D

Acq: 10 Aug 2016 23:50

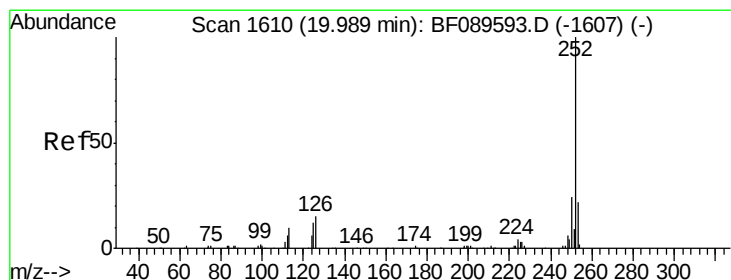
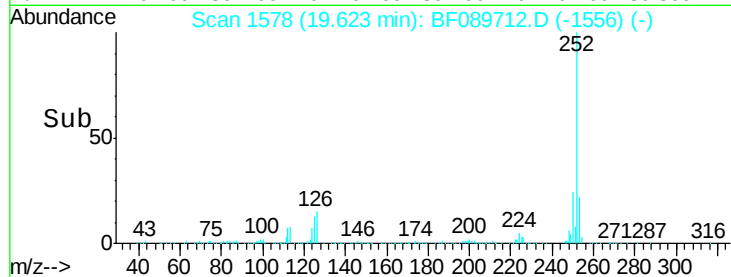
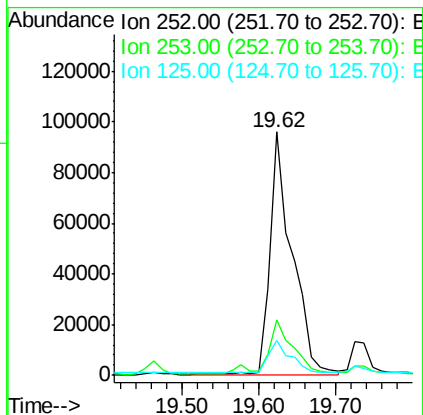
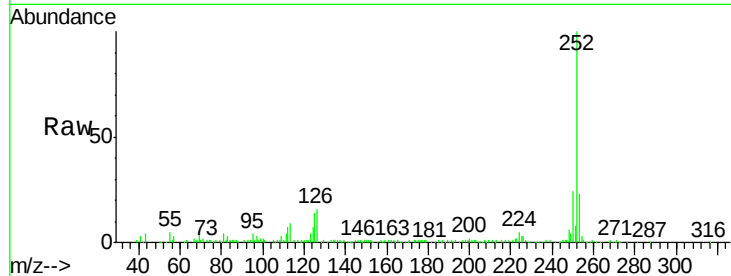
Instrument :

BNA_F

ClientSampleId :

DEL2-BASE(66)

Tgt Ion:	252	Resp:	191101
Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.3	25.9
125	14.3	11.0	16.6



#89

Benzo(a)pyrene

Concen: 16.85 ng

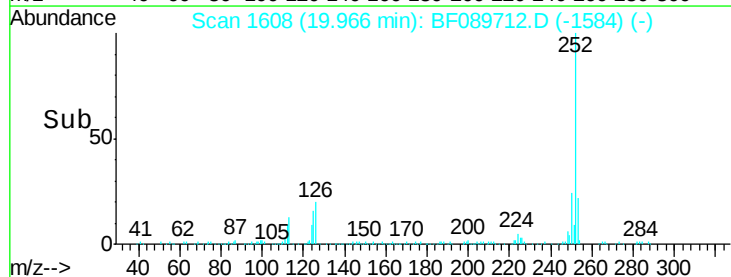
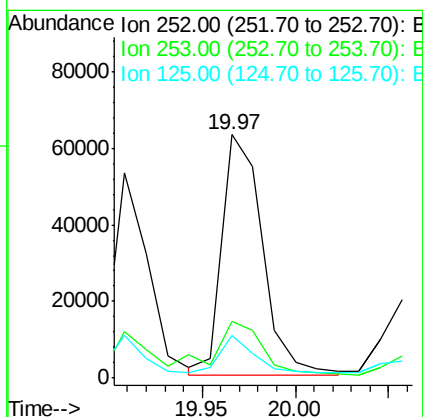
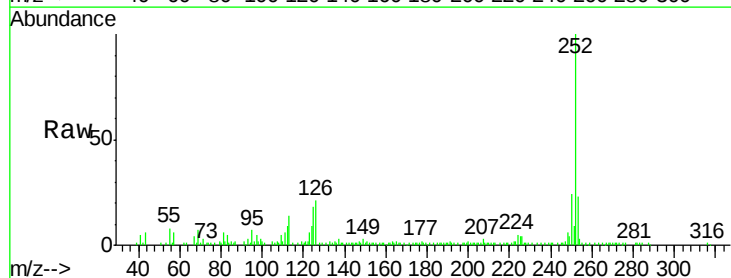
RT: 19.97 min Scan# 1608

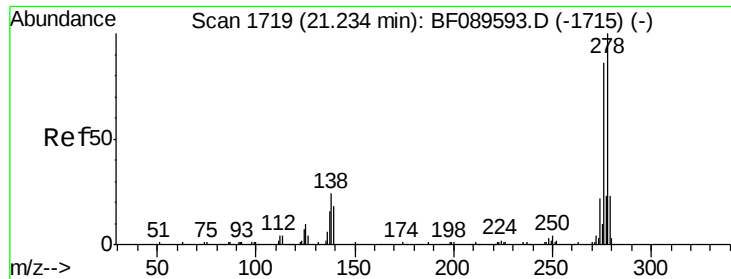
Delta R.T. -0.02 min

Lab File: BF089712.D

Acq: 10 Aug 2016 23:50

Tgt Ion:	252	Resp:	95465
Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.4	26.0
125	17.6	9.9	14.9#

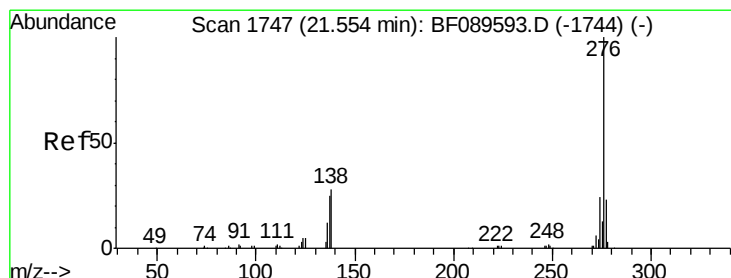
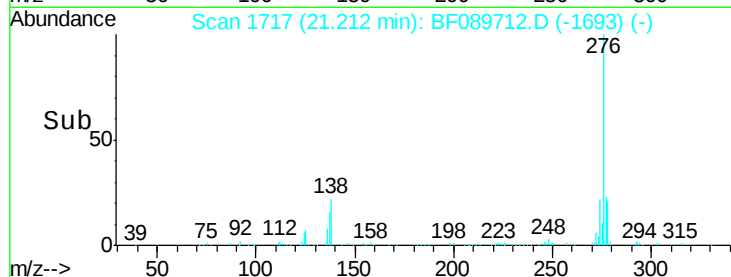
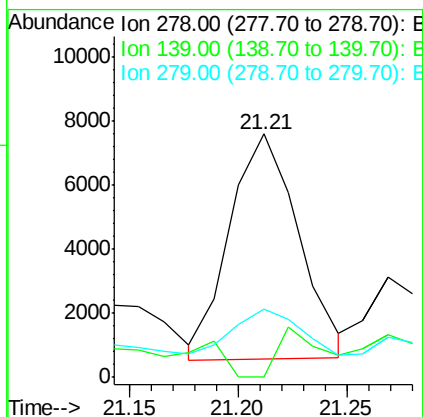
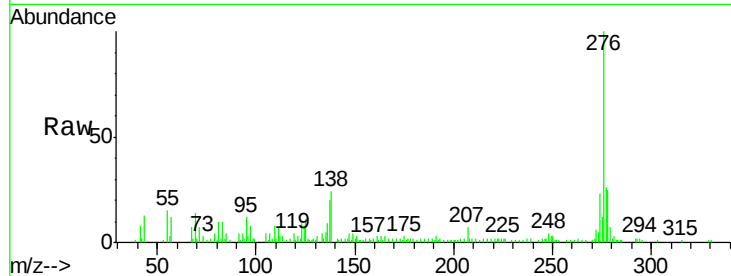




#90
Dibenzo(a,h)anthracene
Concen: 2.93 ng
RT: 21.21 min Scan# 1717
Delta R.T. -0.02 min
Lab File: BF089712.D
Acq: 10 Aug 2016 23:50

Instrument :
BNA_F
ClientSampleId :
DEL2-BASE(66)

Tgt Ion:278 Resp: 15493
Ion Ratio Lower Upper
278 100
139 0.0 14.6 21.8#
279 28.1 18.4 27.6#



#91
Benzo(g,h,i)perylene
Concen: 9.47 ng
RT: 21.54 min Scan# 1746
Delta R.T. -0.01 min
Lab File: BF089712.D
Acq: 10 Aug 2016 23:50

Tgt Ion:276 Resp: 51332
Ion Ratio Lower Upper
276 100
277 25.9 18.6 28.0
138 25.5 22.6 33.8

