

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062416\
 Data File : BF088334.D
 Acq On : 24 Jun 2016 16:27
 Operator : UM/SJ
 Sample : H3683-09DL 10X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 24 17:56:31 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 22 14:55:14 2016
 Response via : Initial Calibration

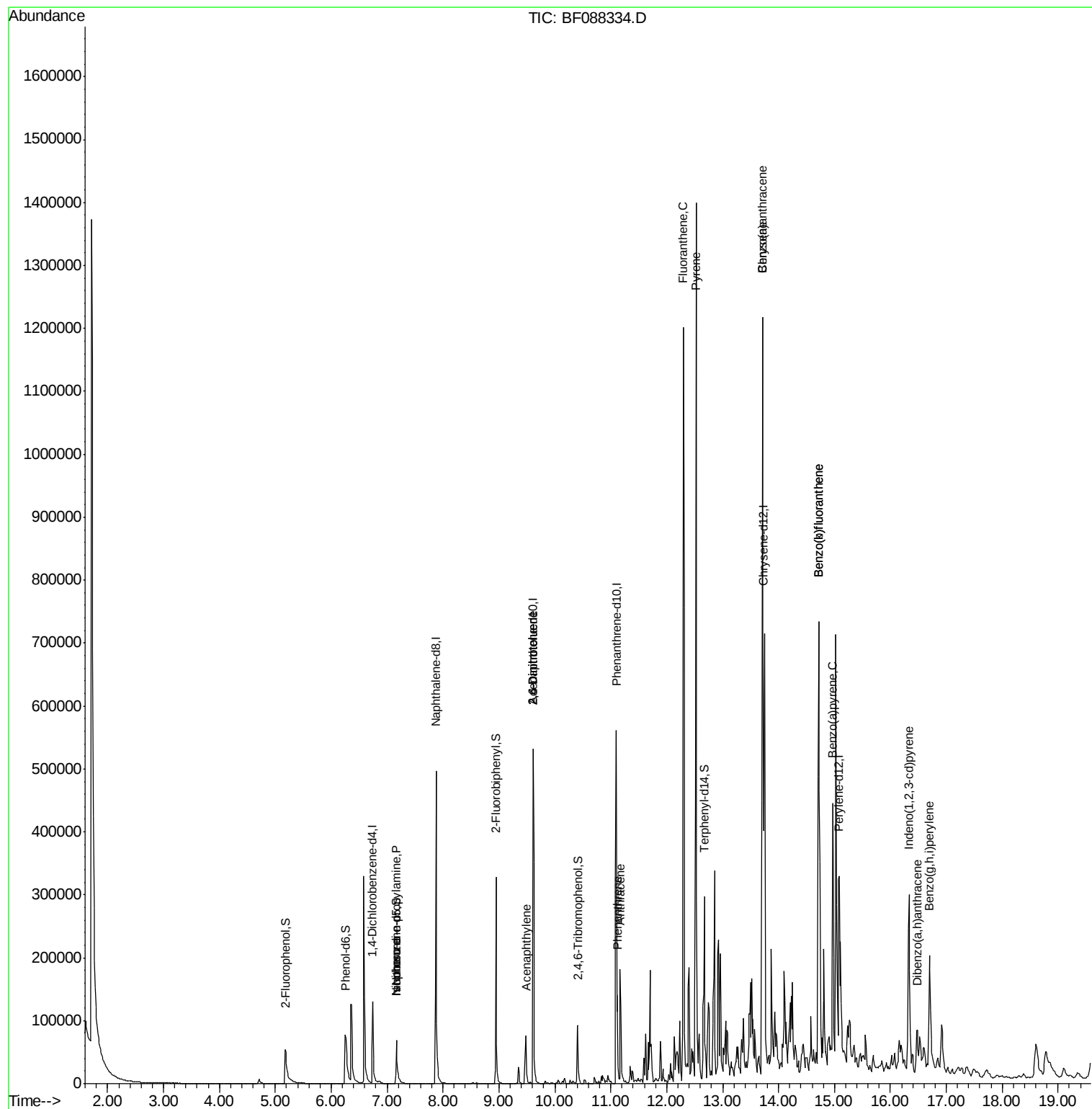
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	34422	20.00	ng	0.14
21) Naphthalene-d8	7.87	136	312359	20.00	ng	-0.02
38) Acenaphthene-d10	9.61	164	147492	20.00	ng	-0.03
63) Phenanthrene-d10	11.10	188	277294	20.00	ng	-0.02
75) Chrysene-d12	13.73	240	170353	20.00	ng	-0.02
86) Perylene-d12	15.09	264	168411	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.19	112	66888	33.22	ng	0.01
7) Phenol-d6	6.25	99	99337	40.71	ng	-0.01
23) Nitrobenzene-d5	7.16	82	50235	9.39	ng	-0.01
41) 2,4,6-Tribromophenol	10.41	330	19820	12.73	ng	-0.02
44) 2-Fluorobiphenyl	8.95	172	122960	8.09	ng	-0.02
78) Terphenyl-d14	12.67	244	102369	13.67	ng	-0.02
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.16	70	5536	3.55	ng	# 72
25) Isophorone	7.16	82	50238	5.07	ng	# 65
48) Acenaphthylene	9.48	152	66216	4.36	ng	98
50) 2,6-Dinitrotoluene	9.61	165	18421	7.53	ng	# 37
56) 2,4-Dinitrotoluene	9.61	165	18421	5.86	ng	# 36
57) Fluorene	10.17	166	5610	Below Cal		88
70) Phenanthrene	11.12	178	60420	4.15	ng	98
71) Anthracene	11.17	178	109091	7.43	ng	97
74) Fluoranthene	12.30	202	635898	41.41	ng	98
77) Pyrene	12.53	202	586228	46.37	ng	100
80) Benzo(a)anthracene	13.71	228	440791	45.41	ng	# 79
82) Chrysene	13.71	228	440791	48.26	ng	# 84
85) Indeno(1,2,3-cd)pyrene	16.33	276	181201	21.35	ng	# 100
87) Benzo(b)fluoranthene	14.72	252	517944	44.13	ng	# 95
88) Benzo(k)fluoranthene	14.72	252	517944	58.49	ng	98
89) Benzo(a)pyrene	14.97	252	172864	18.20	ng	98
90) Dibenzo(a,h)anthracene	16.48	278	43581	4.94	ng	98
91) Benzo(g,h,i)perylene	16.70	276	151516	16.70	ng	97

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

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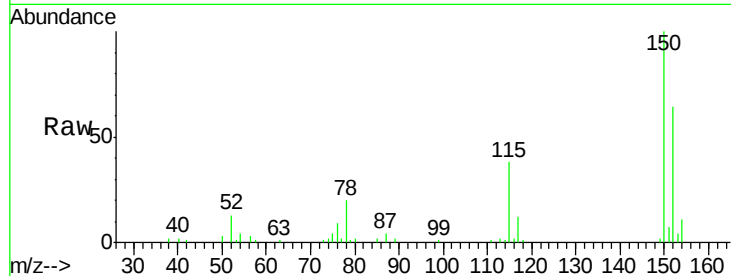


#1

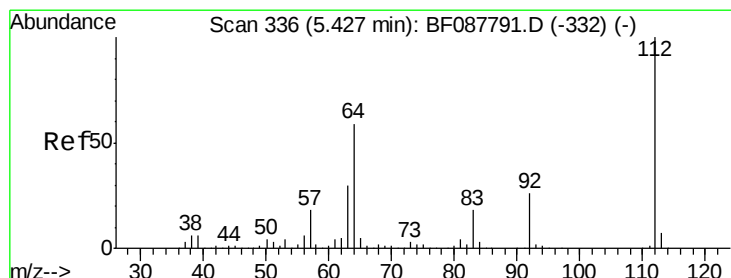
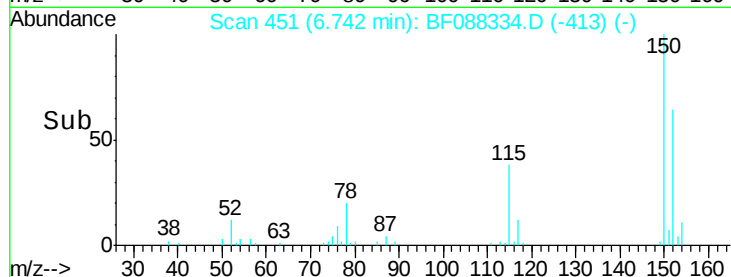
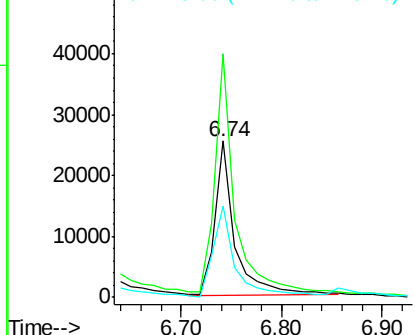
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.74 min Scan# 451
Delta R.T. 0.14 min
Lab File: BF088334.D
Acq: 24 Jun 2016 16:27

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 34422
Ion Ratio Lower Upper
152 100
150 155.6 123.8 185.6
115 58.6 39.6 59.4



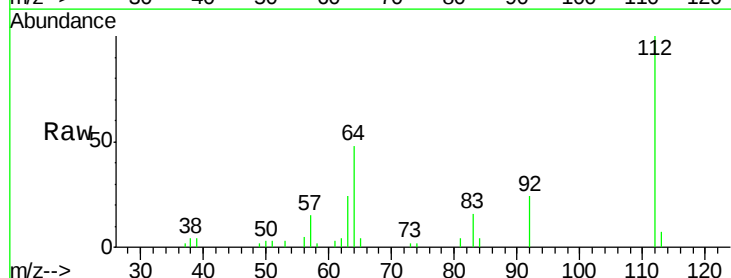
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



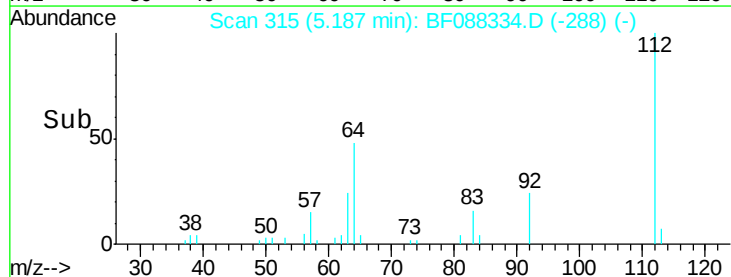
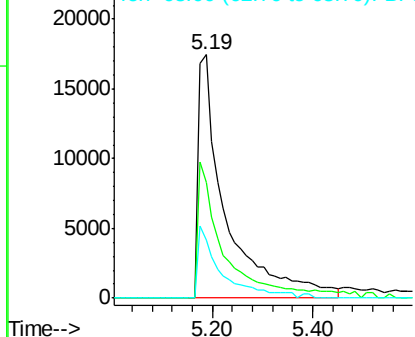
#5

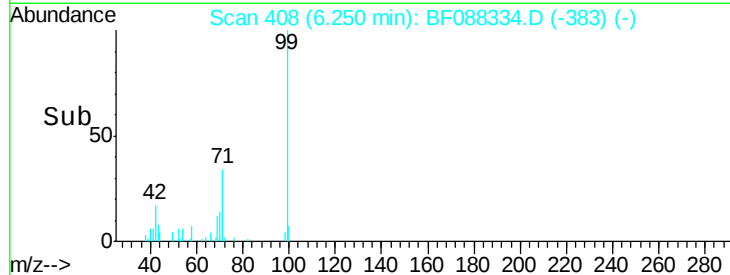
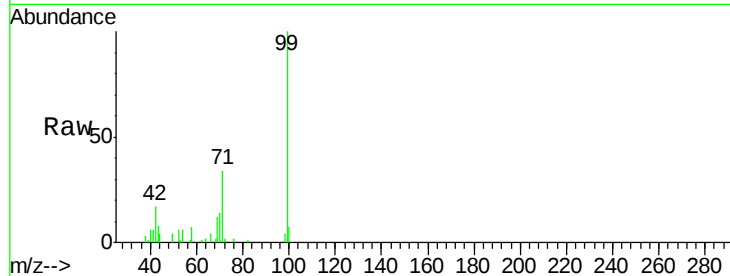
2-Fluorophenol
Concen: 33.22 ng
RT: 5.19 min Scan# 315
Delta R.T. 0.01 min
Lab File: BF088334.D
Acq: 24 Jun 2016 16:27

Tgt Ion:112 Resp: 66888
Ion Ratio Lower Upper
112 100
64 47.6 42.2 63.2
63 23.8 21.8 32.8



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

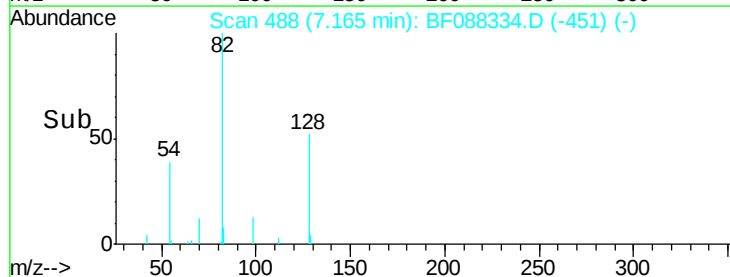
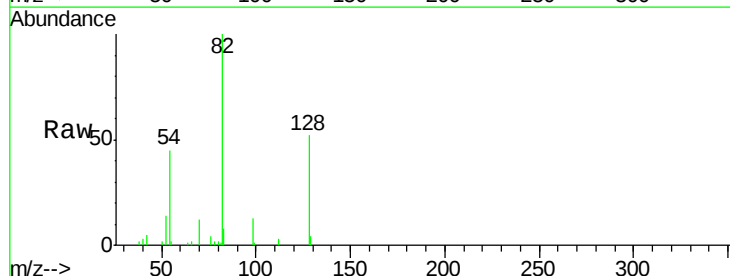
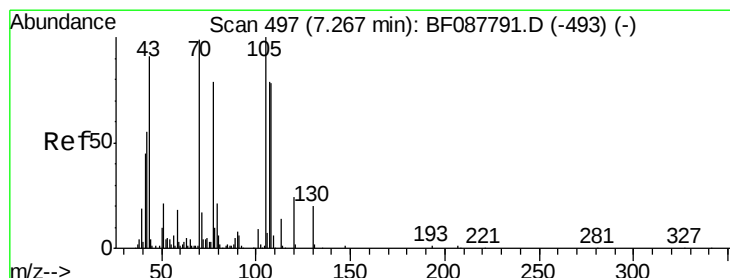
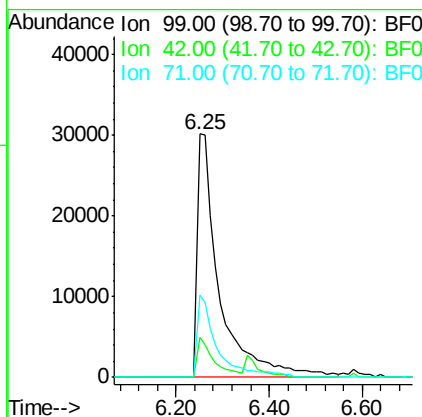




#7
Phenol-d6
Concen: 40.71 ng
RT: 6.25 min Scan# 408
Delta R.T. -0.01 min
Lab File: BF088334.D
Acq: 24 Jun 2016 16:27

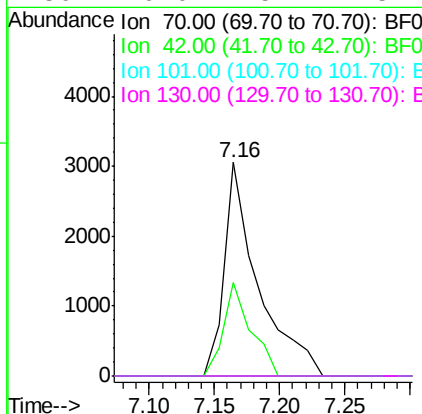
Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
99	100		
42	16.5	12.2	18.2
71	33.6	23.4	35.0



#19
n-Nitroso-di-n-propylamine
Concen: 3.55 ng
RT: 7.16 min Scan# 488
Delta R.T. 0.13 min
Lab File: BF088334.D
Acq: 24 Jun 2016 16:27

Tgt Ion	Ratio	Lower	Upper
70	100		
42	44.0	49.6	74.4#
101	0.0	7.1	10.7#
130	0.0	15.4	23.2#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.87 min Scan# 550

Delta R.T. -0.02 min

Lab File: BF088334.D

Acq: 24 Jun 2016 16:27

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 312359

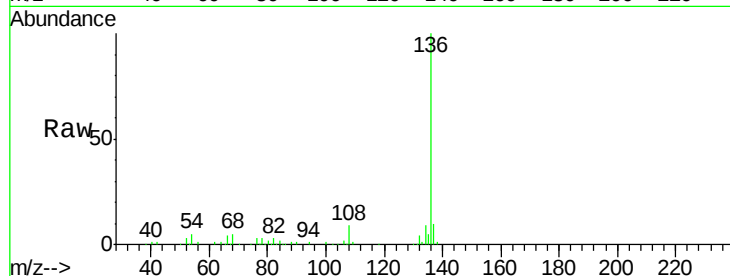
Ion Ratio Lower Upper

136 100

137 10.4 9.1 13.7

54 5.3 6.6 10.0#

68 4.7 5.1 7.7#

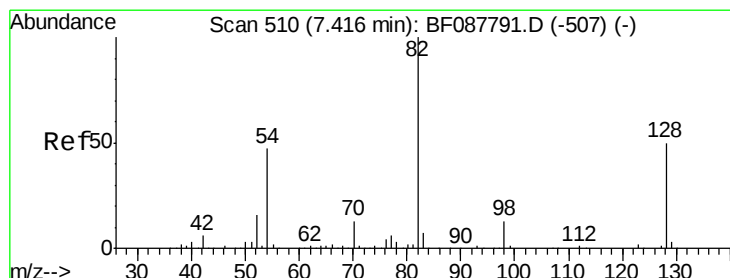
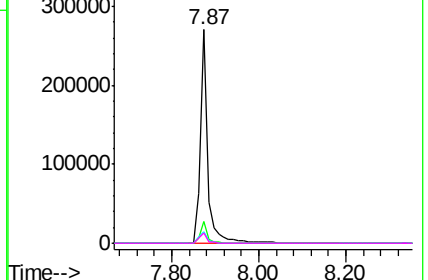
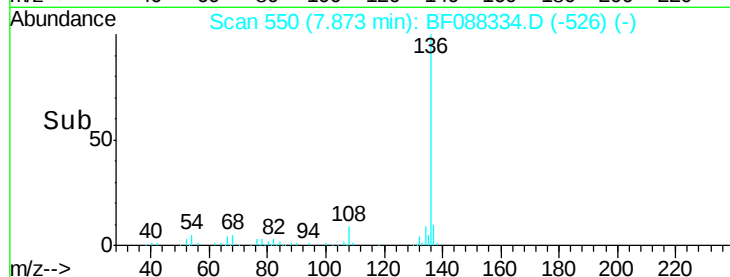


Abundance Ion 136.00 (135.70 to 136.70): E

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: 9.39 ng

RT: 7.16 min Scan# 488

Delta R.T. -0.01 min

Lab File: BF088334.D

Acq: 24 Jun 2016 16:27

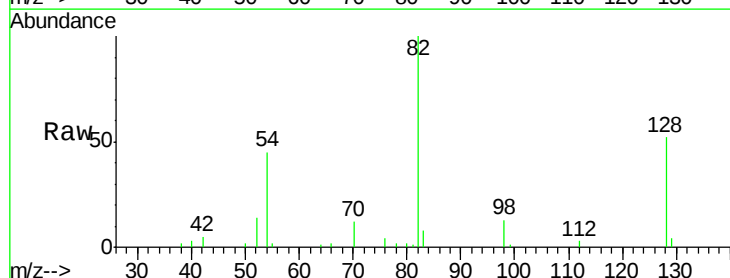
Tgt Ion: 82 Resp: 50235

Ion Ratio Lower Upper

82 100

128 52.3 35.9 53.9

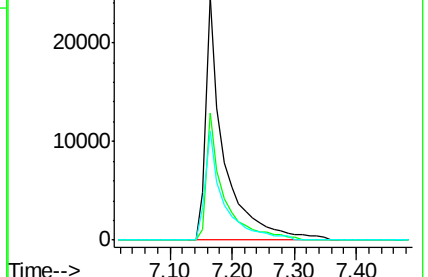
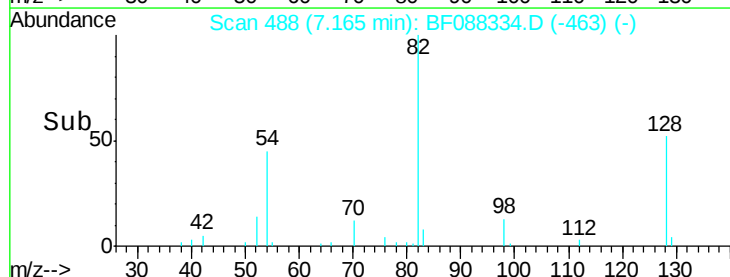
54 44.7 40.9 61.3

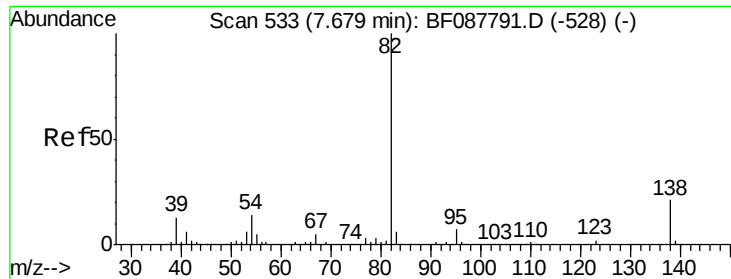


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

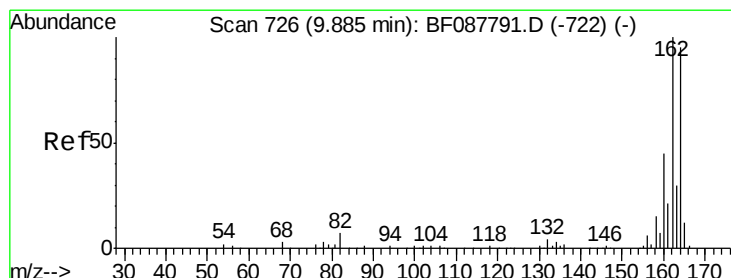
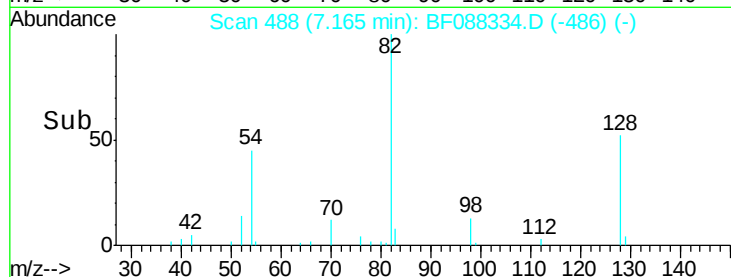
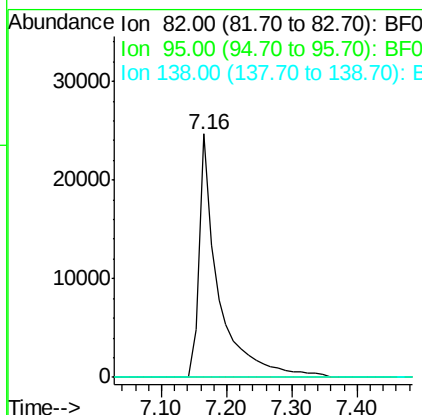
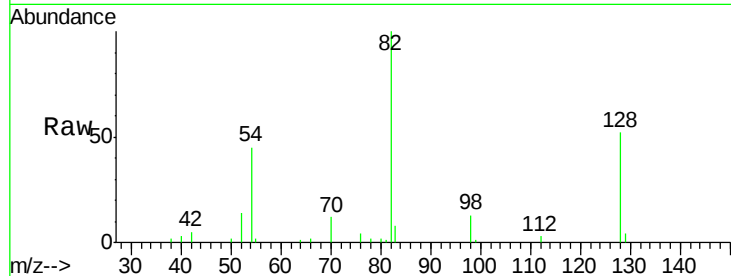




#25
Isophorone
Concen: 5.07 ng
RT: 7.16 min Scan# 488
Delta R.T. -0.27 min
Lab File: BF088334.D
Acq: 24 Jun 2016 16:27

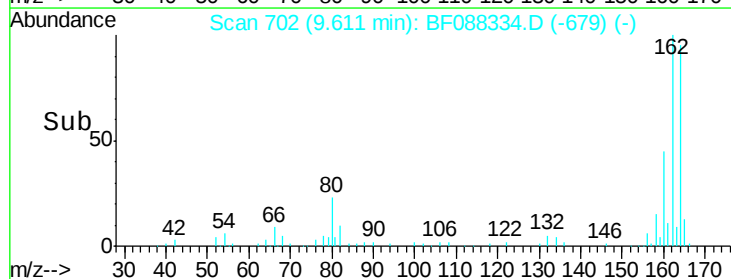
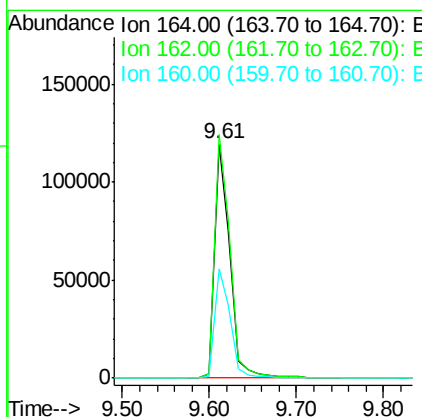
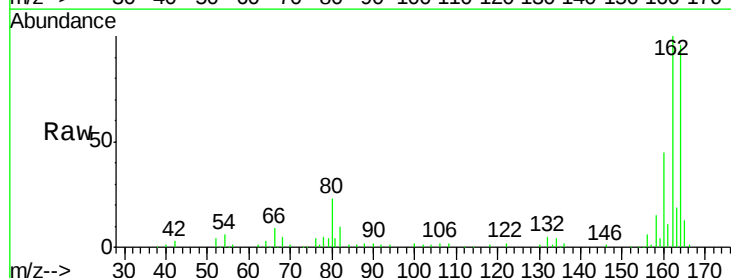
Instrument :
BNA_F
ClientSampleId :

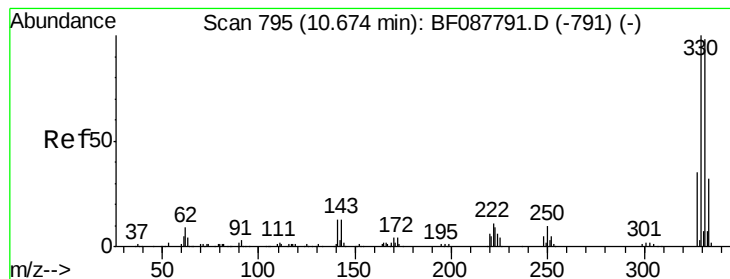
Tot Ion: 82 Resp: 50238
Ion Ratio Lower Upper
82 100
95 0.0 5.4 8.2#
138 0.0 14.6 21.8#



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.61 min Scan# 702
Delta R.T. -0.03 min
Lab File: BF088334.D
Acq: 24 Jun 2016 16:27

Tgt Ion:164 Resp: 147492
Ion Ratio Lower Upper
164 100
162 104.0 85.4 128.2
160 46.7 39.5 59.3

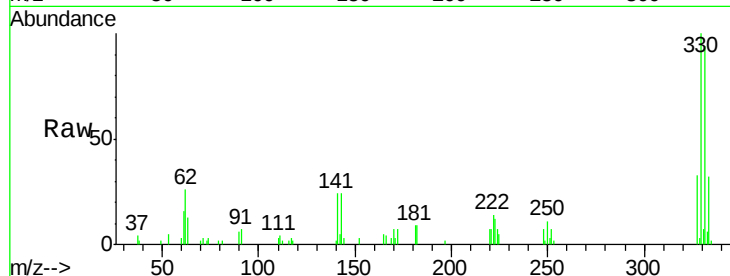




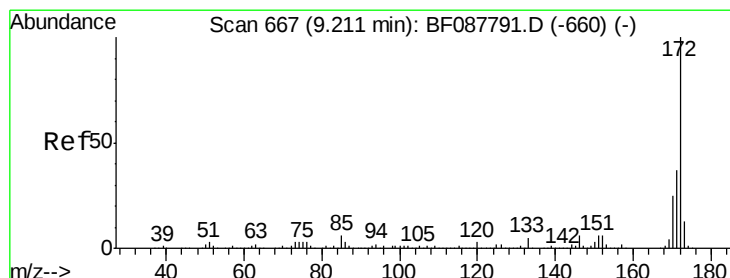
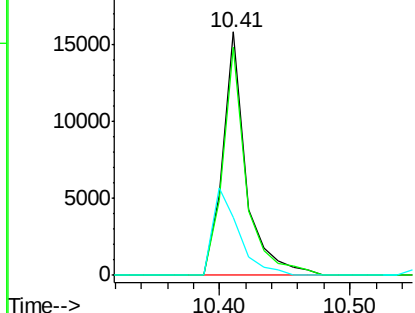
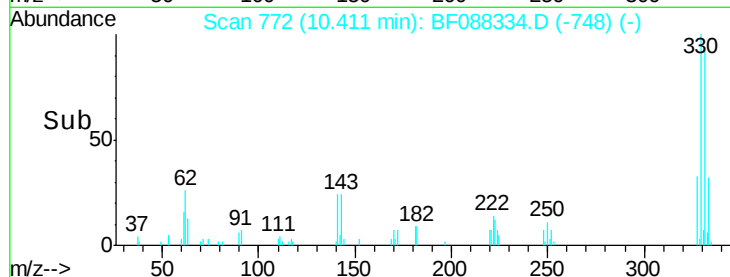
#41
 2,4,6-Tribromophenol
 Concen: 12.73 ng
 RT: 10.41 min Scan# 772
 Delta R.T. -0.02 min
 Lab File: BF088334.D
 Acq: 24 Jun 2016 16:27

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.4	0.0	0.0#
141	40.0	0.0	0.0#

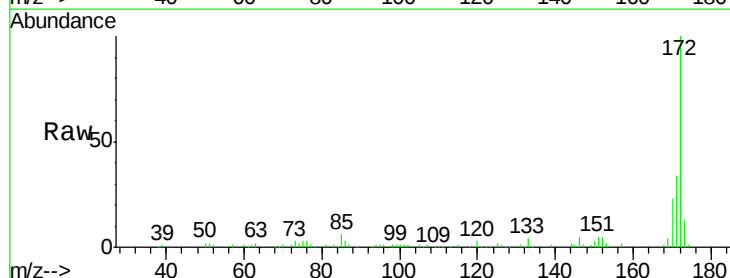


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

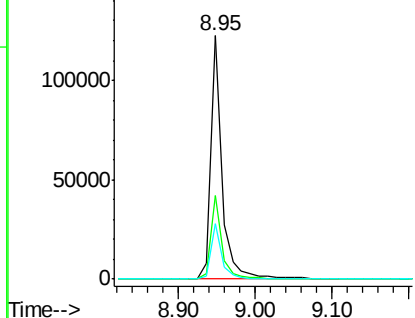
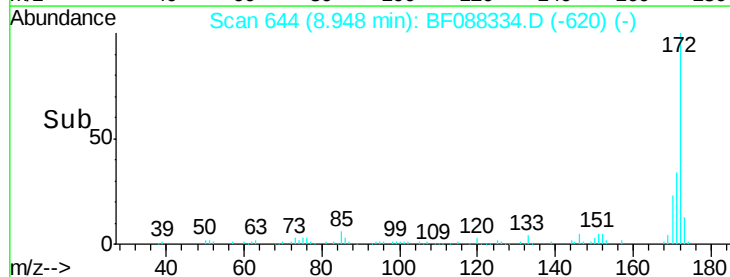


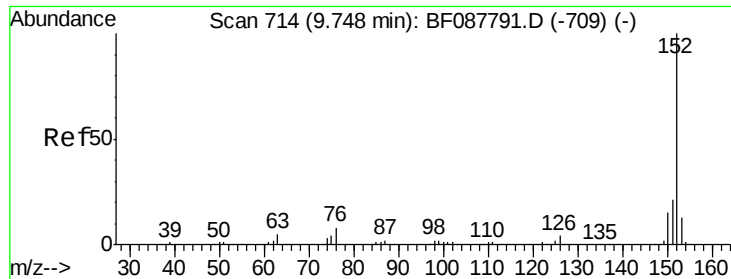
#44
 2-Fluorobiphenyl
 Concen: 8.09 ng
 RT: 8.95 min Scan# 644
 Delta R.T. -0.02 min
 Lab File: BF088334.D
 Acq: 24 Jun 2016 16:27

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.3	28.6	43.0
170	22.9	19.2	28.8



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

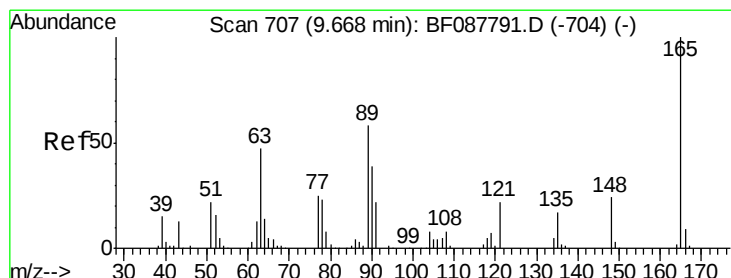
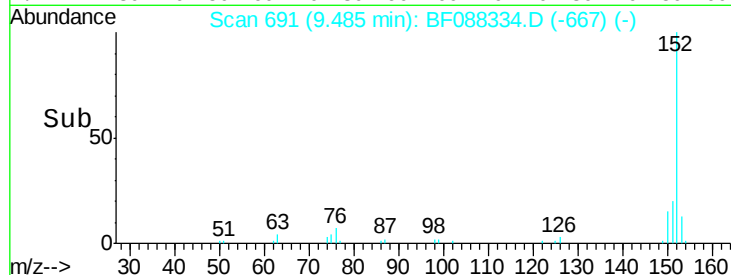
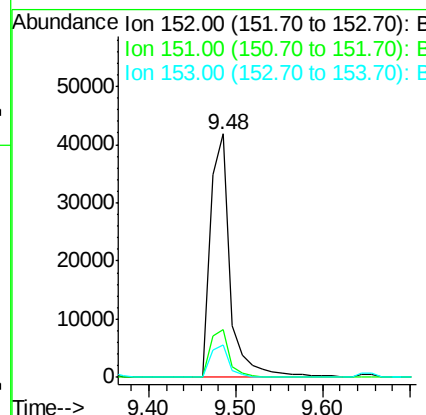
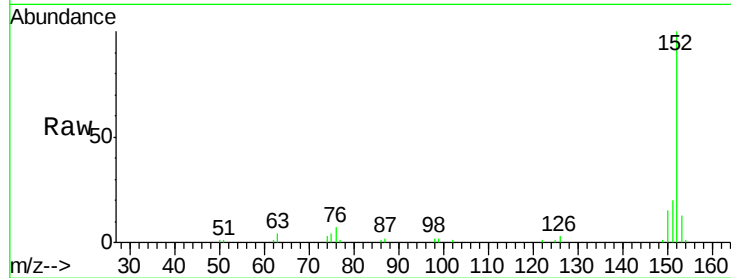




#48
Acenaphthylene
Concen: 4.36 ng
RT: 9.48 min Scan# 691
Delta R.T. -0.02 min
Lab File: BF088334.D
Acq: 24 Jun 2016 16:27

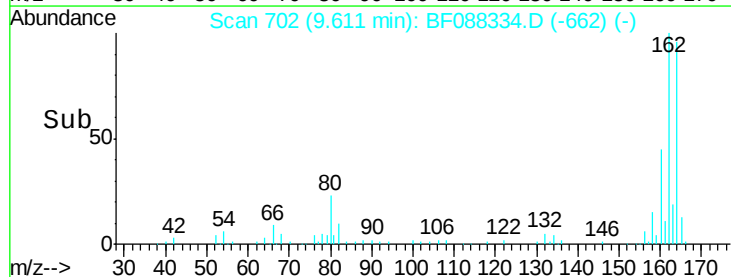
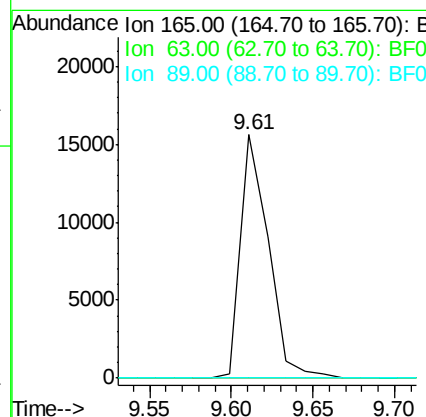
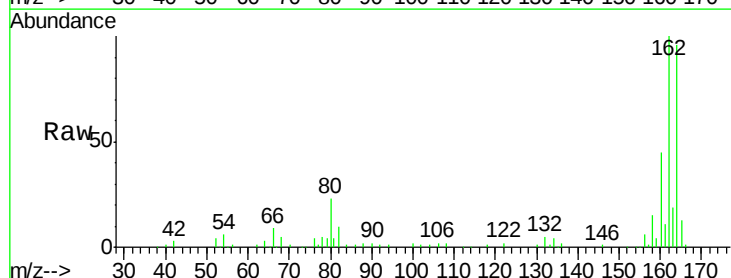
Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 66216
Ion Ratio Lower Upper
152 100
151 19.5 16.2 24.4
153 13.3 11.0 16.6



#50
2,6-Dinitrotoluene
Concen: 7.53 ng
RT: 9.61 min Scan# 702
Delta R.T. 0.16 min
Lab File: BF088334.D
Acq: 24 Jun 2016 16:27

Tgt Ion:165 Resp: 18421
Ion Ratio Lower Upper
165 100
63 0.0 28.1 42.1#
89 0.0 32.2 48.2#

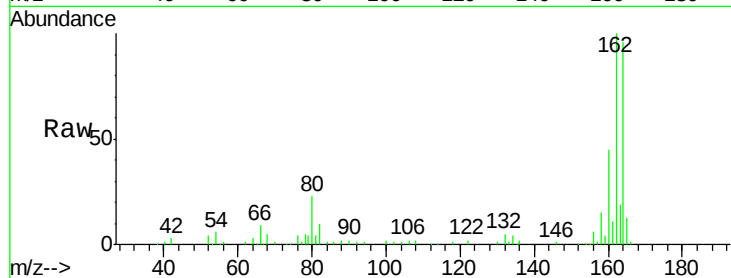




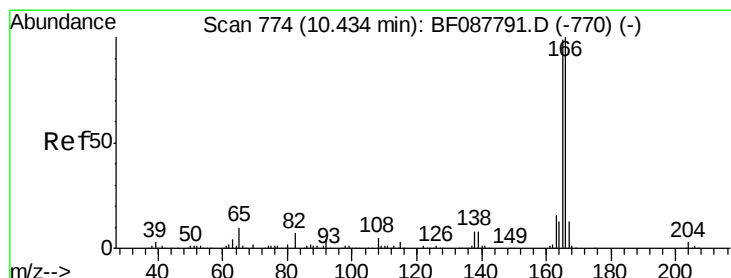
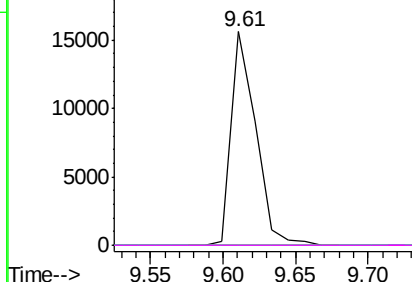
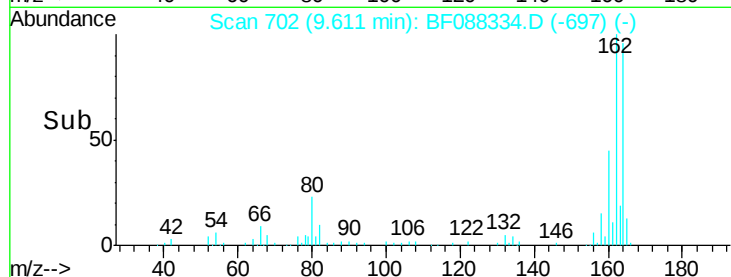
#56
2,4-Dinitrotoluene
Concen: 5.86 ng
RT: 9.61 min Scan# 702
Delta R.T. -0.24 min
Lab File: BF088334.D
Acq: 24 Jun 2016 16:27

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165 Resp: 18421
Ion Ratio Lower Upper
165 100
63 0.0 22.0 33.0#
89 0.0 41.1 61.7#
182 0.0 2.0 3.0#

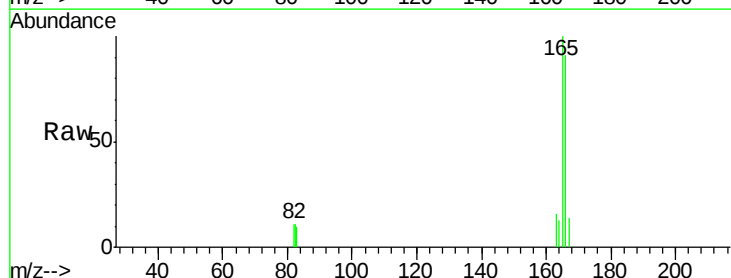


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0
Ion 182.00 (181.70 to 182.70): E

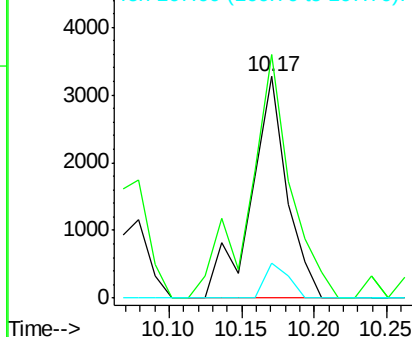
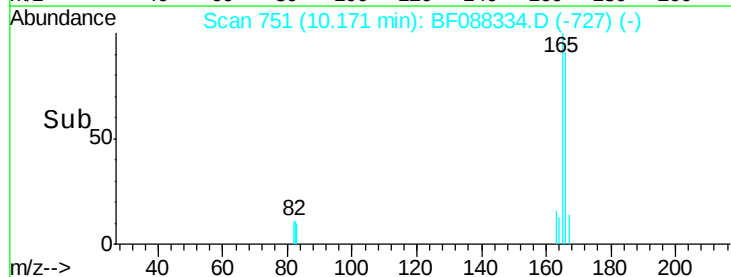


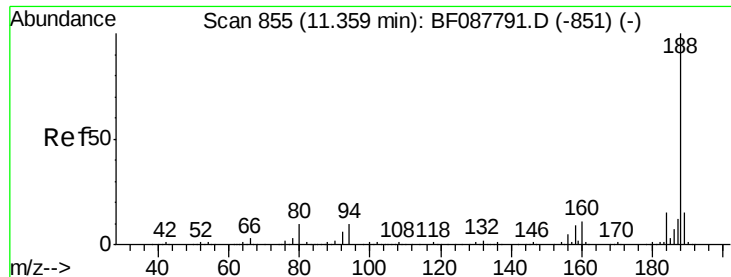
#57
Fluorene
Concen: Below Cal
RT: 10.17 min Scan# 751
Delta R.T. -0.02 min
Lab File: BF088334.D
Acq: 24 Jun 2016 16:27

Tgt Ion:166 Resp: 5610
Ion Ratio Lower Upper
166 100
165 110.0 77.8 116.8
167 15.9 11.2 16.8



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

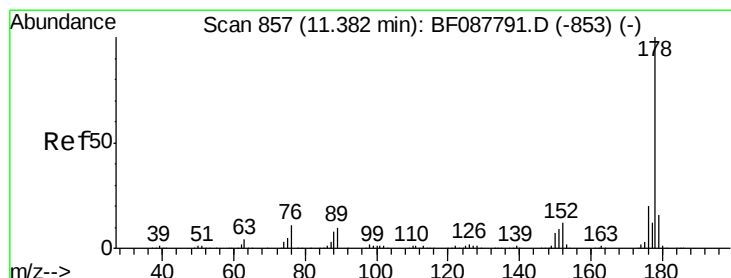
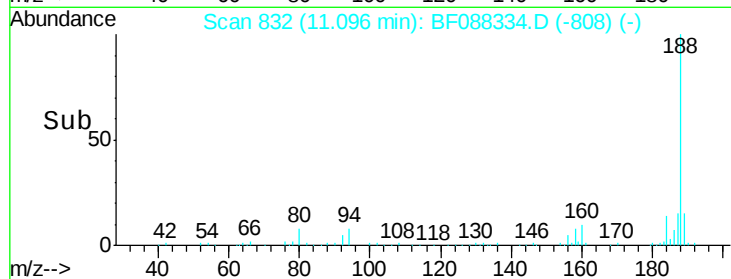
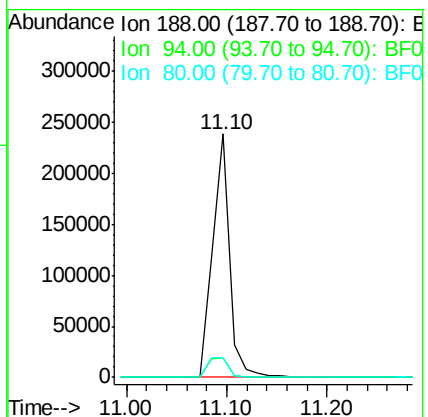
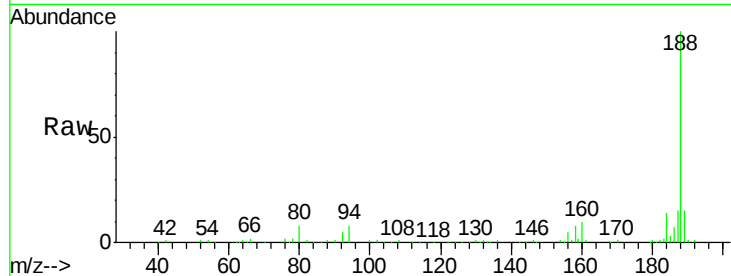




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.10 min Scan# 832
Delta R.T. -0.02 min
Lab File: BF088334.D
Acq: 24 Jun 2016 16:27

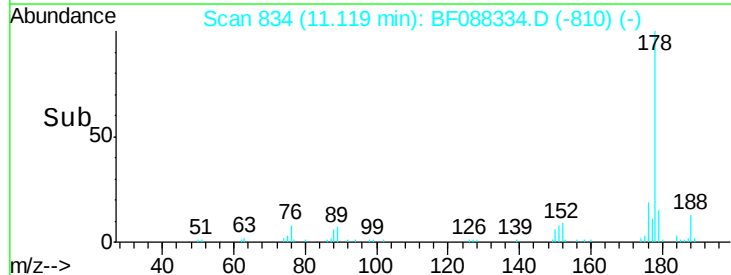
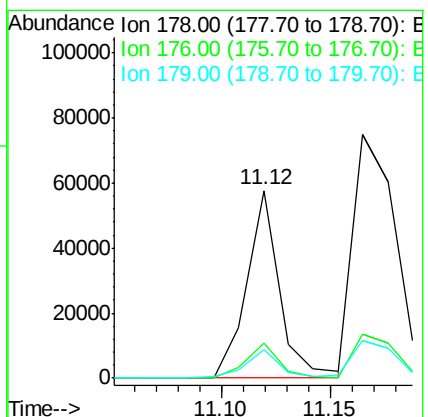
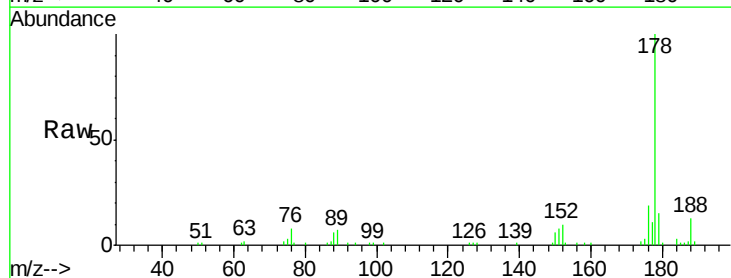
Instrument :
BNA_F
ClientSampleId :

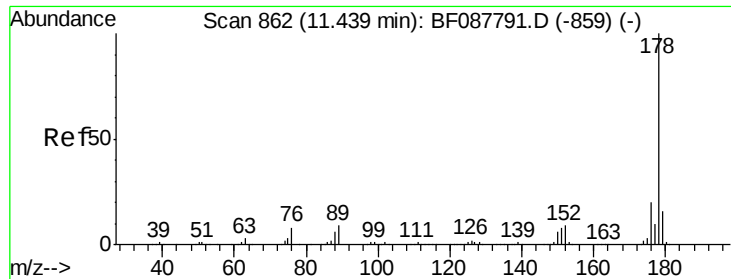
Tot Ion:188 Resp: 277294
Ion Ratio Lower Upper
188 100
94 8.1 9.0 13.6#
80 8.0 10.0 15.0#



#70
Phenanthrene
Concen: 4.15 ng
RT: 11.12 min Scan# 834
Delta R.T. -0.02 min
Lab File: BF088334.D
Acq: 24 Jun 2016 16:27

Tgt Ion:178 Resp: 60420
Ion Ratio Lower Upper
178 100
176 18.8 15.8 23.6
179 15.3 13.0 19.4

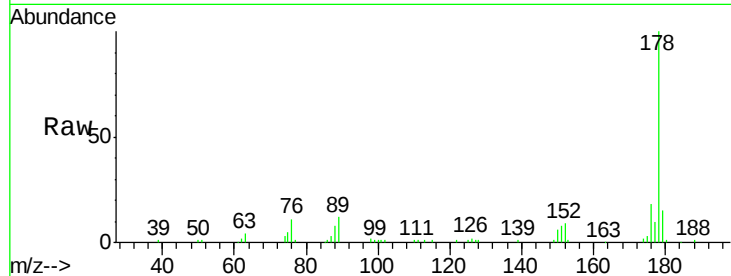




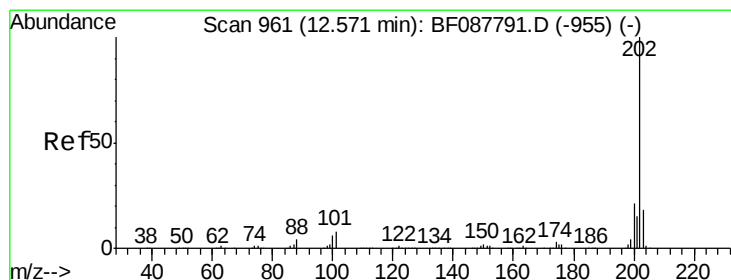
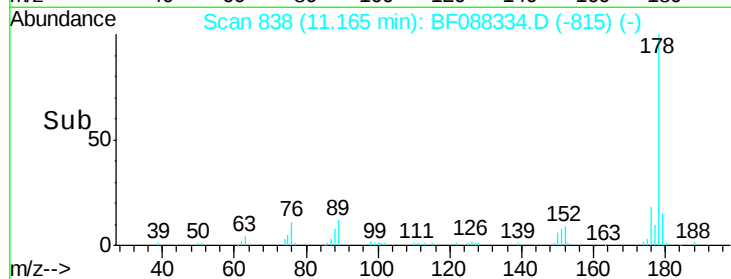
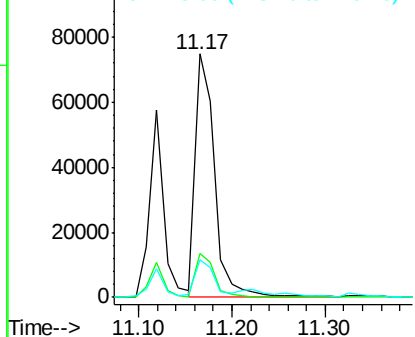
#71
 Anthracene
 Concen: 7.43 ng
 RT: 11.17 min Scan# 838
 Delta R.T. -0.03 min
 Lab File: BF088334.D
 Acq: 24 Jun 2016 16:27

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:178 Resp: 109091
 Ion Ratio Lower Upper
 178 100
 176 17.9 15.6 23.4
 179 15.4 12.8 19.2

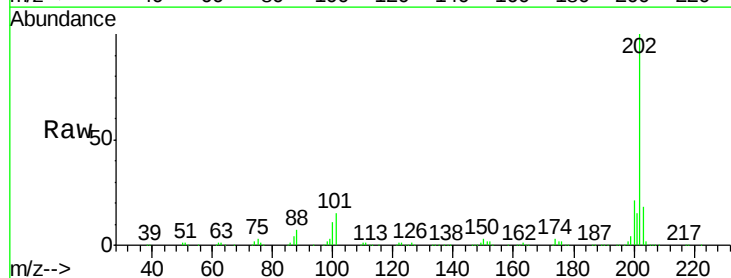


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

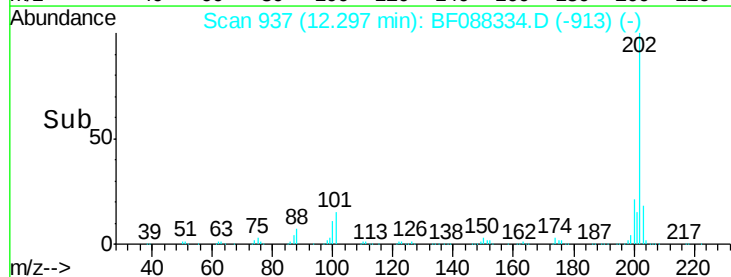
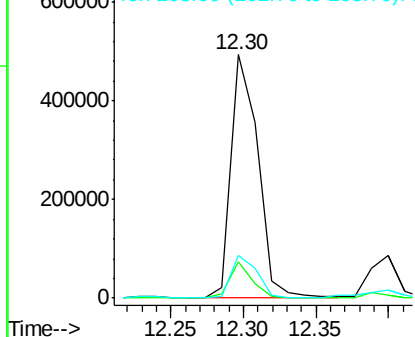


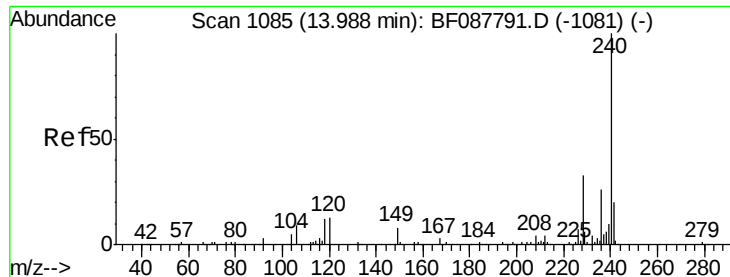
#74
 Fluoranthene
 Concen: 41.41 ng
 RT: 12.30 min Scan# 937
 Delta R.T. -0.02 min
 Lab File: BF088334.D
 Acq: 24 Jun 2016 16:27

Tgt Ion:202 Resp: 635898
 Ion Ratio Lower Upper
 202 100
 101 15.0 0.0 33.1
 203 17.7 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: 13.73 min Scan# 1062

Delta R.T. -0.02 min

Lab File: BF088334.D

Acq: 24 Jun 2016 16:27

Instrument :

BNA_F

ClientSampleId :

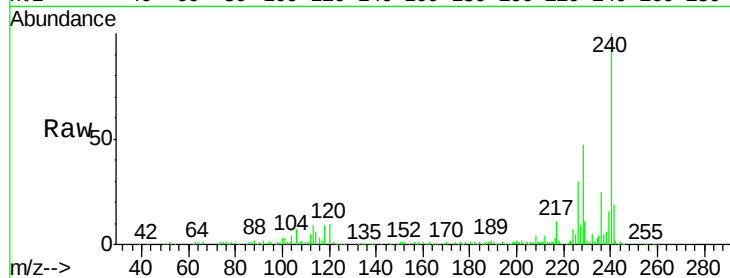
Tot Ion:240 Resp: 170353

Ion Ratio Lower Upper

240 100

120 9.6 6.8 10.2

236 25.4 20.2 30.2

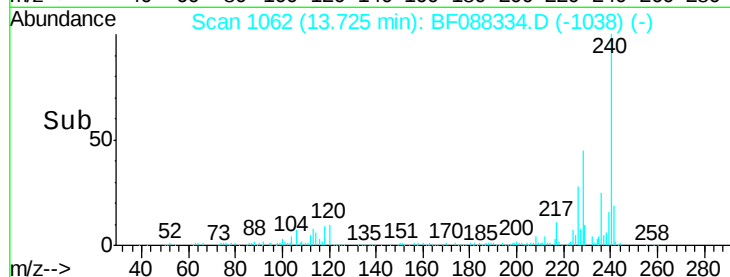


Abundance Ion 240.00 (239.70 to 240.70): E

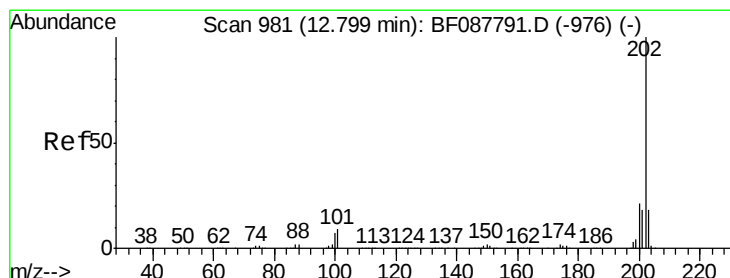
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

13.73



Time--> 13.60 13.70 13.80



#77

Pyrene

Concen: 46.37 ng

RT: 12.53 min Scan# 957

Delta R.T. -0.02 min

Lab File: BF088334.D

Acq: 24 Jun 2016 16:27

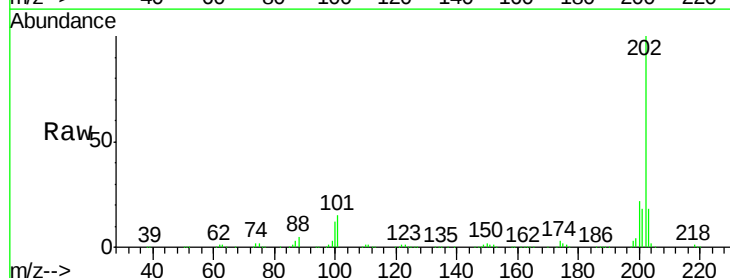
Tgt Ion:202 Resp: 586228

Ion Ratio Lower Upper

202 100

200 21.7 17.4 26.2

203 17.9 14.5 21.7

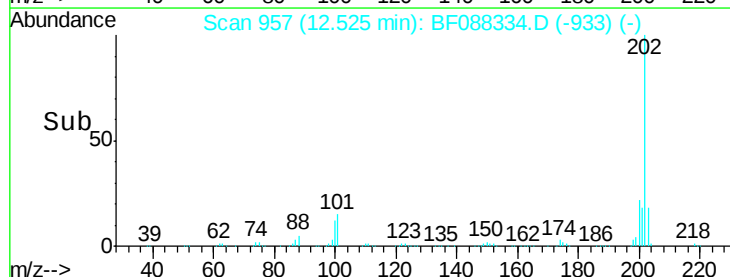


Abundance Ion 202.00 (201.70 to 202.70): E

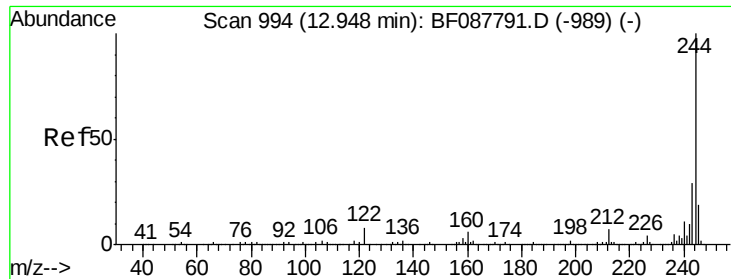
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

12.53



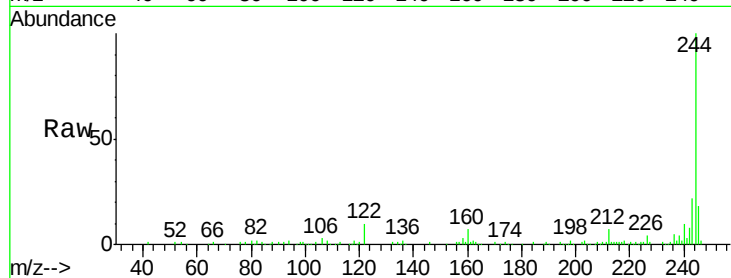
Time--> 12.50 12.60 12.70



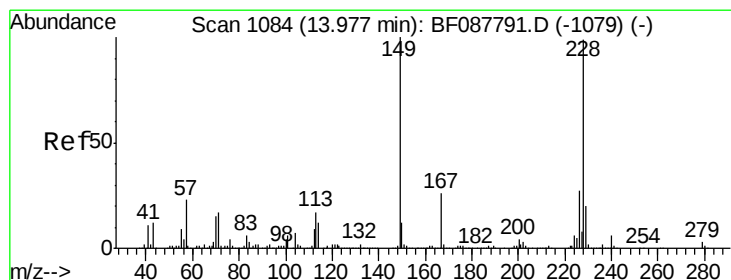
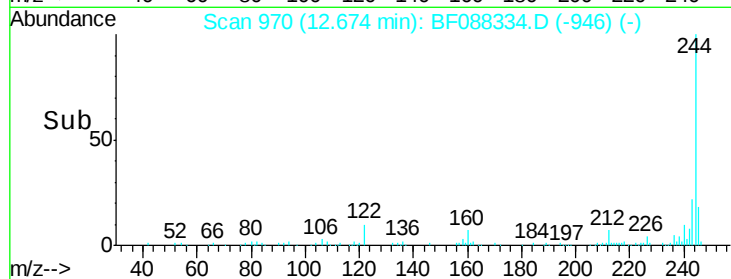
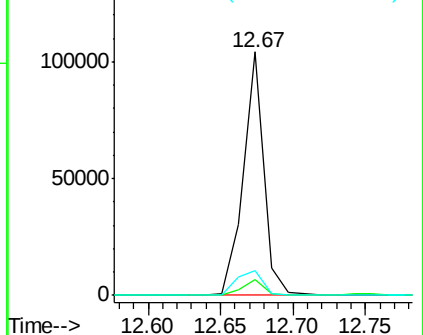
#78
 Terphenyl-d14
 Concen: 13.67 ng
 RT: 12.67 min Scan# 970
 Delta R.T. -0.02 min
 Lab File: BF088334.D
 Acq: 24 Jun 2016 16:27

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:244 Resp: 102369
 Ion Ratio Lower Upper
 244 100
 212 6.6 6.0 9.0
 122 10.3 11.2 16.8#

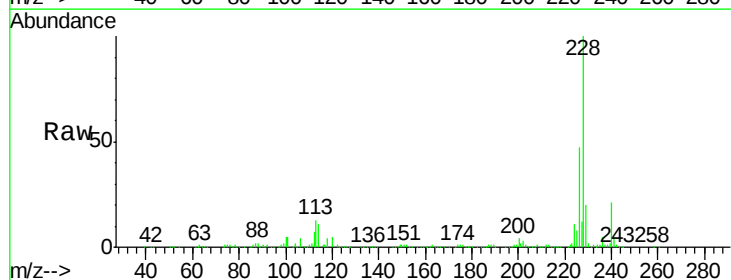


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

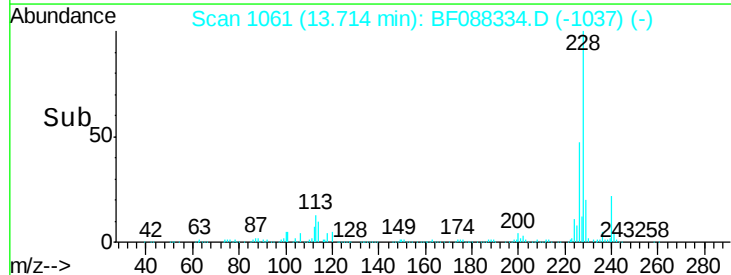
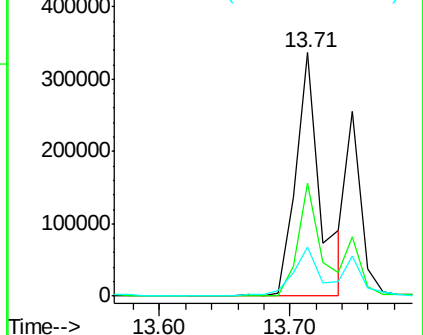


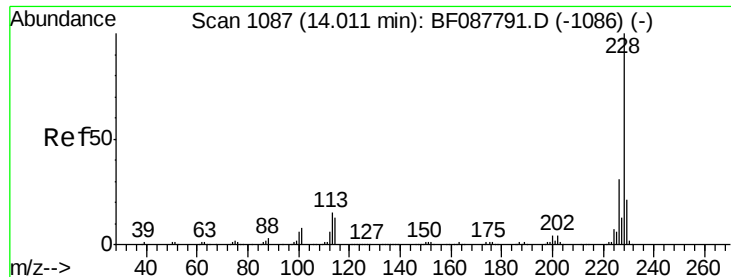
#80
 Benzo(a)anthracene
 Concen: 45.41 ng
 RT: 13.71 min Scan# 1061
 Delta R.T. -0.02 min
 Lab File: BF088334.D
 Acq: 24 Jun 2016 16:27

Tgt Ion:228 Resp: 440791
 Ion Ratio Lower Upper
 228 100
 226 46.6 22.3 33.5#
 229 20.2 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

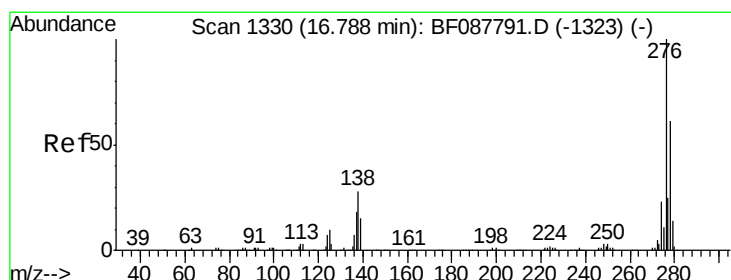
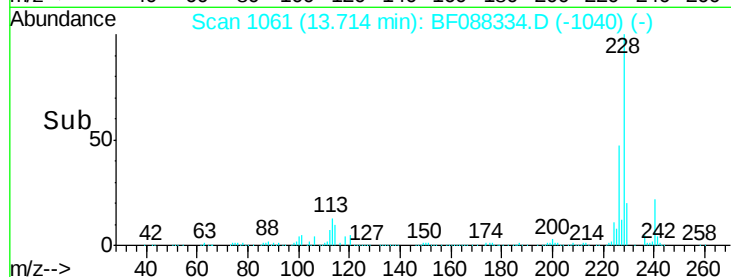
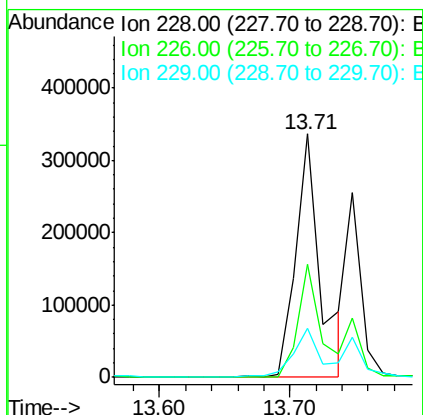
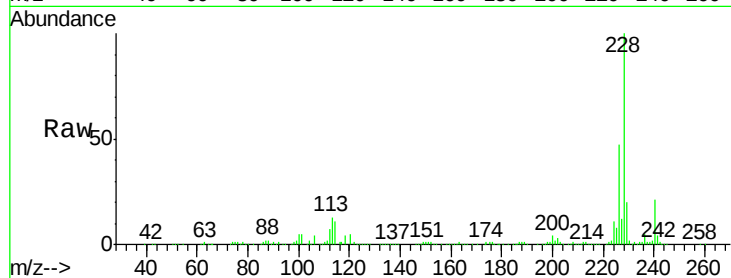




#82
Chrysene
Concen: 48.26 ng
RT: 13.71 min Scan# 1061
Delta R.T. -0.06 min
Lab File: BF088334.D
Acq: 24 Jun 2016 16:27

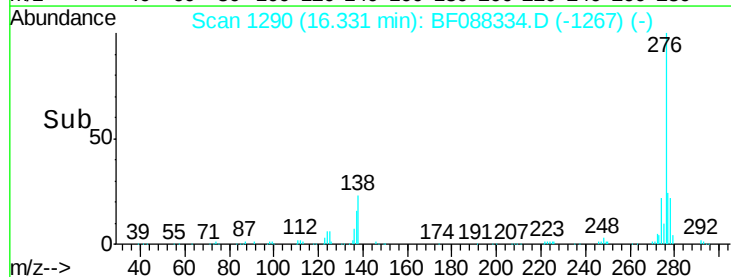
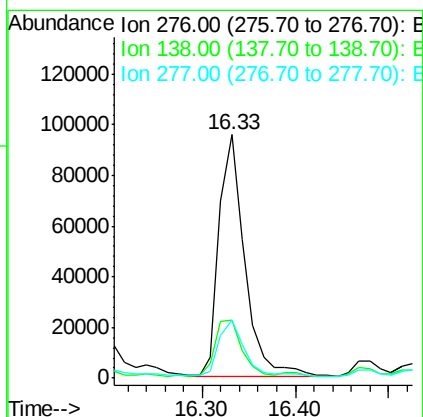
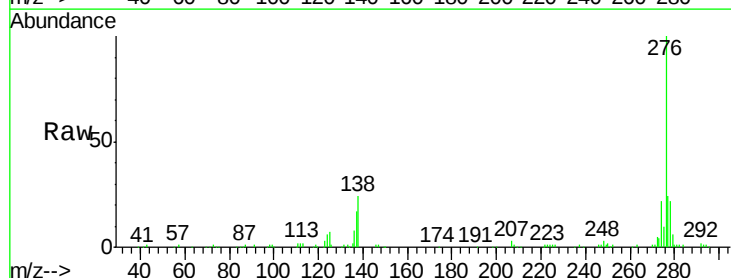
Instrument :
BNA_F
ClientSampleId :

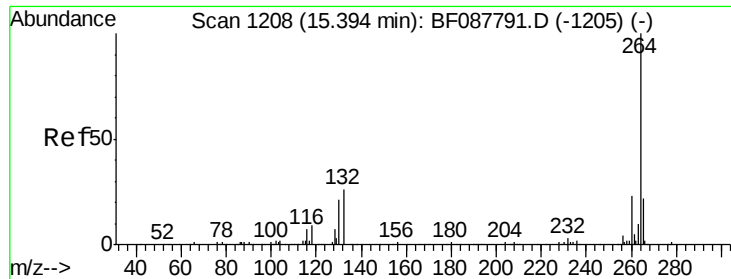
Tot Ion:228 Resp: 440791
Ion Ratio Lower Upper
228 100
226 46.6 25.4 38.2#
229 20.2 16.3 24.5



#85
Indeno(1,2,3-cd)pyrene
Concen: 21.35 ng
RT: 16.33 min Scan# 1290
Delta R.T. -0.03 min
Lab File: BF088334.D
Acq: 24 Jun 2016 16:27

Tgt Ion:276 Resp: 181201
Ion Ratio Lower Upper
276 100
138 24.6 0.0 0.0#
277 23.5 0.0 0.0#

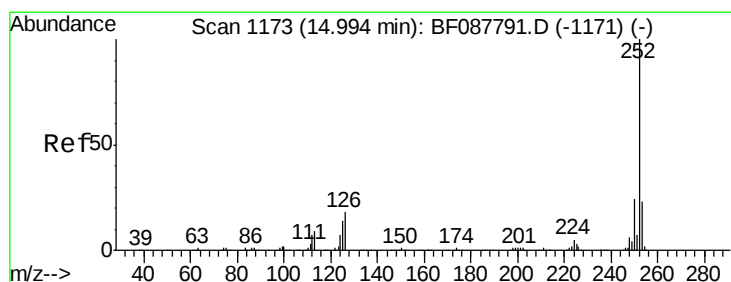
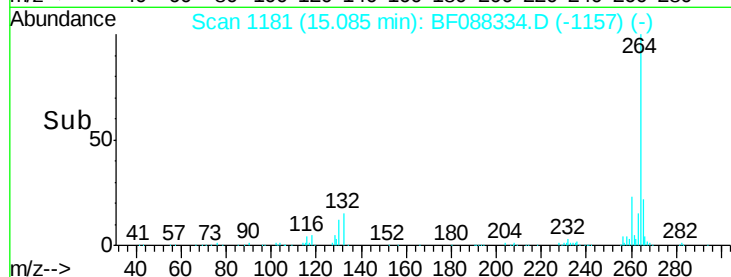
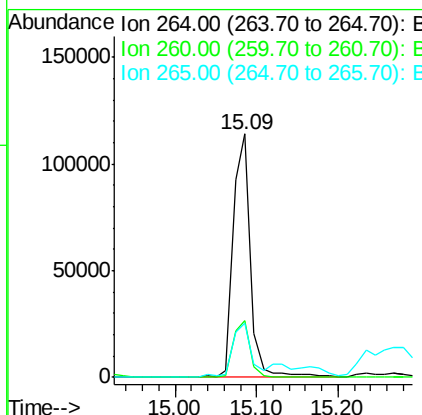
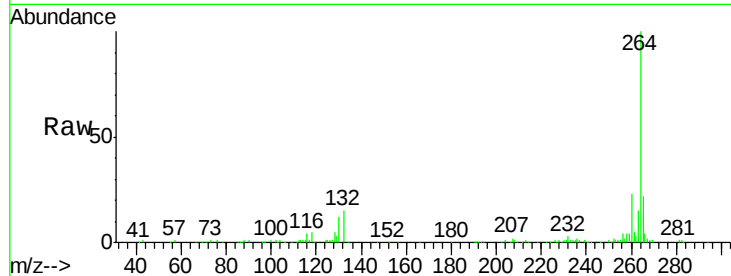




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.09 min Scan# 1181
Delta R.T. -0.02 min
Lab File: BF088334.D
Acq: 24 Jun 2016 16:27

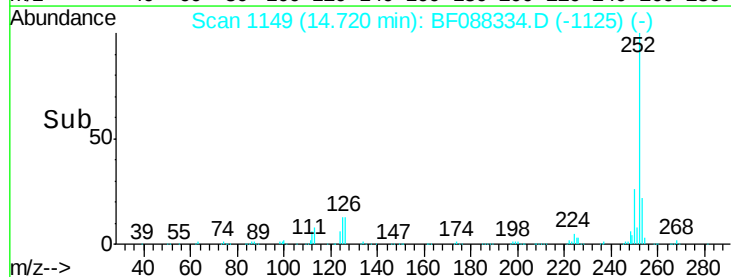
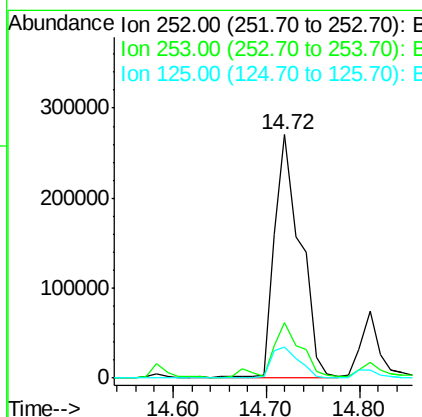
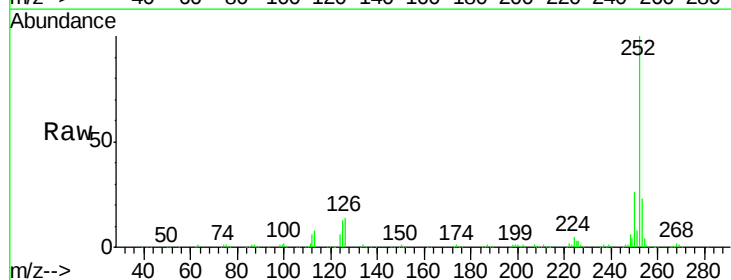
Instrument :
BNA_F
ClientSampleId :

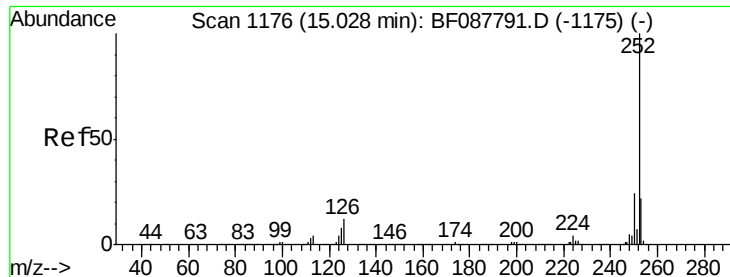
Tot Ion:264 Resp: 168411
Ion Ratio Lower Upper
264 100
260 23.2 19.2 28.8
265 22.2 16.9 25.3



#87
Benzo(b)fluoranthene
Concen: 44.13 ng
RT: 14.72 min Scan# 1149
Delta R.T. -0.02 min
Lab File: BF088334.D
Acq: 24 Jun 2016 16:27

Tgt Ion:252 Resp: 517944
Ion Ratio Lower Upper
252 100
253 23.0 17.4 26.2
125 13.0 7.1 10.7#





#88

Benzo(k)fluoranthene

Concen: 58.49 ng

RT: 14.72 min Scan# 1149

Delta R.T. -0.05 min

Lab File: BF088334.D

Acq: 24 Jun 2016 16:27

Instrument :

BNA_F

ClientSampleId :

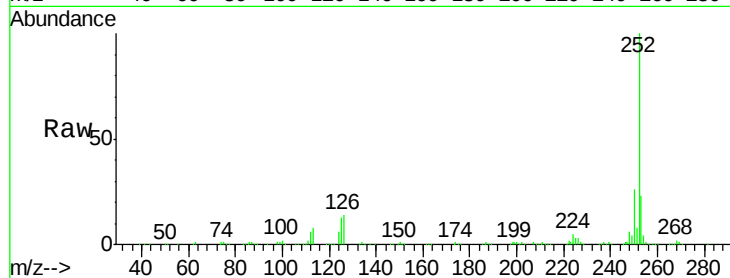
Tot Ion:252 Resp: 517944

Ion Ratio Lower Upper

252 100

253 23.0 18.0 27.0

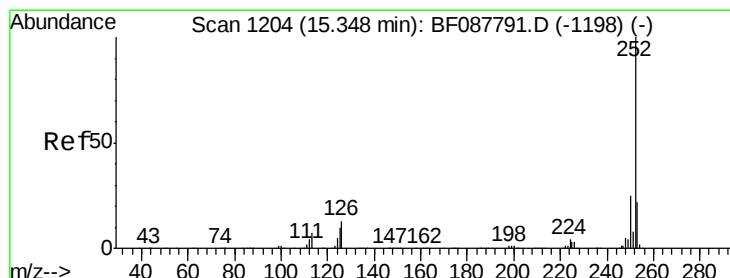
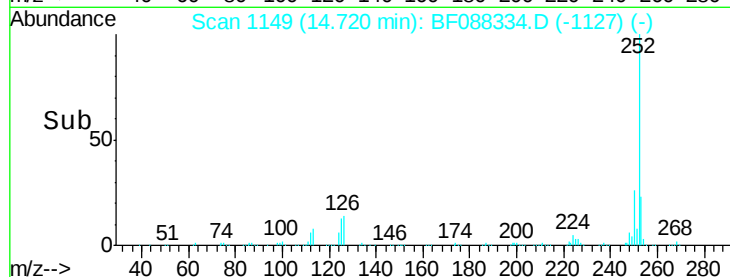
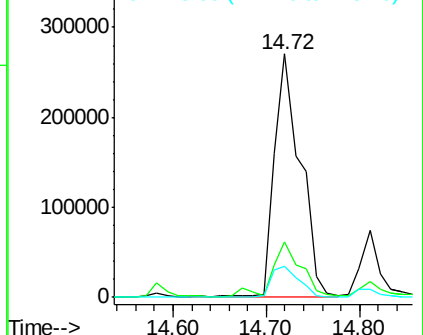
125 13.0 11.2 16.8



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



#89

Benzo(a)pyrene

Concen: 18.20 ng

RT: 14.97 min Scan# 1171

Delta R.T. -0.08 min

Lab File: BF088334.D

Acq: 24 Jun 2016 16:27

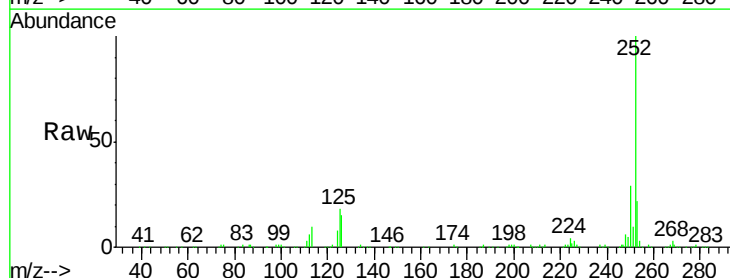
Tgt Ion:252 Resp: 172864

Ion Ratio Lower Upper

252 100

253 22.4 17.9 26.9

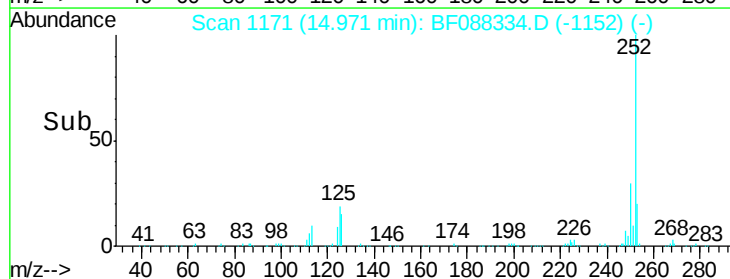
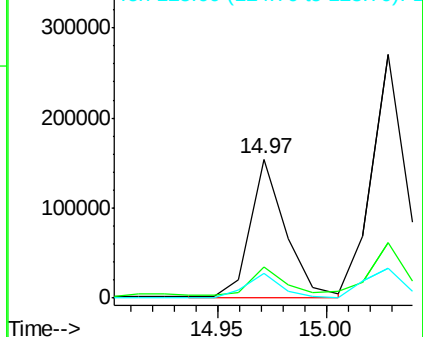
125 17.6 12.5 18.7

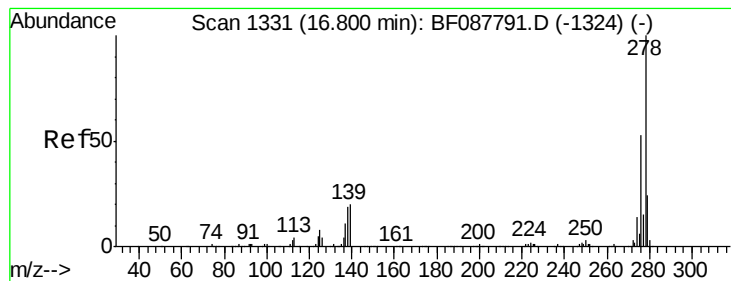


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 4.94 ng

RT: 16.48 min Scan# 1303

Delta R.T. 0.11 min

Lab File: BF088334.D

Acq: 24 Jun 2016 16:27

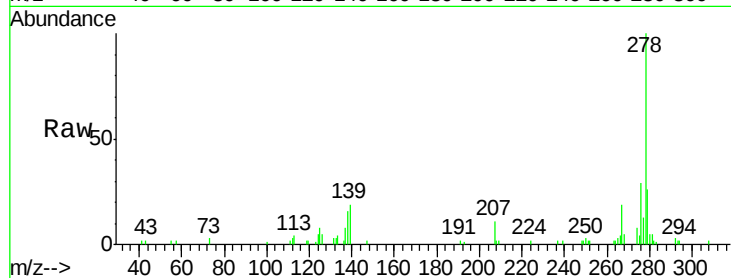
Instrument :

BNA_F

ClientSampleId :

Tot Ion:278 Resp: 43581

Ion	Ratio	Lower	Upper
278	100		
139	18.9	15.7	23.5
279	25.6	19.4	29.2

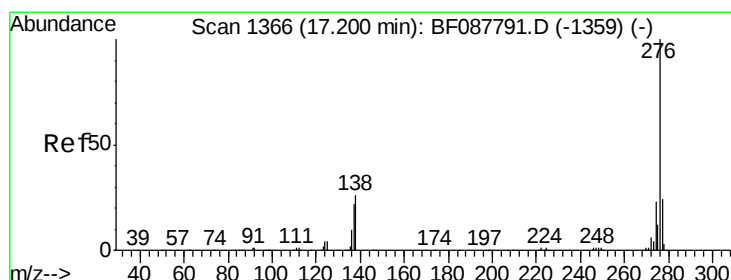
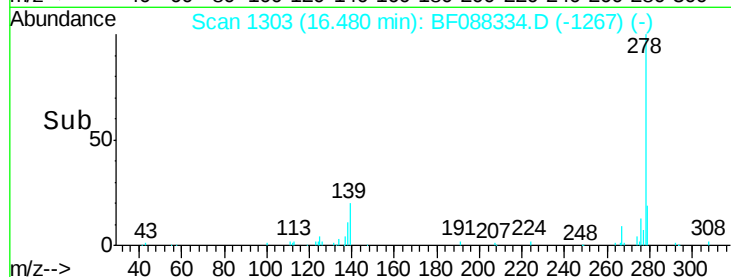
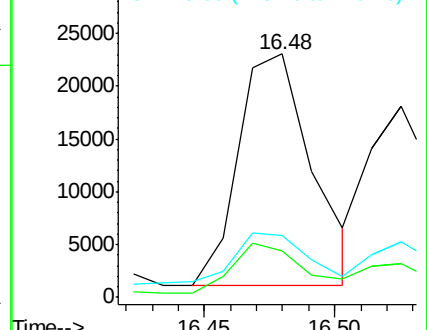


Abundance

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: 16.70 ng

RT: 16.70 min Scan# 1322

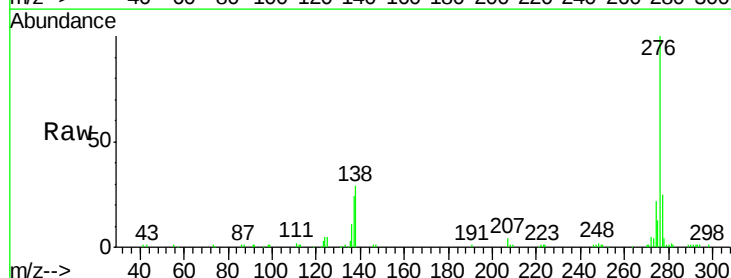
Delta R.T. -0.05 min

Lab File: BF088334.D

Acq: 24 Jun 2016 16:27

Tgt Ion:276 Resp: 151516

Ion	Ratio	Lower	Upper
276	100		
277	24.6	18.9	28.3
138	28.6	21.4	32.2



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

