

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051116\
 Data File : BF086925.D
 Acq On : 12 May 2016 10:45
 Operator : UM/SJ
 Sample : H2895-12DL 5X
 Misc :
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 12 16:07:14 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 12 15:26:18 2016
 Response via : Initial Calibration

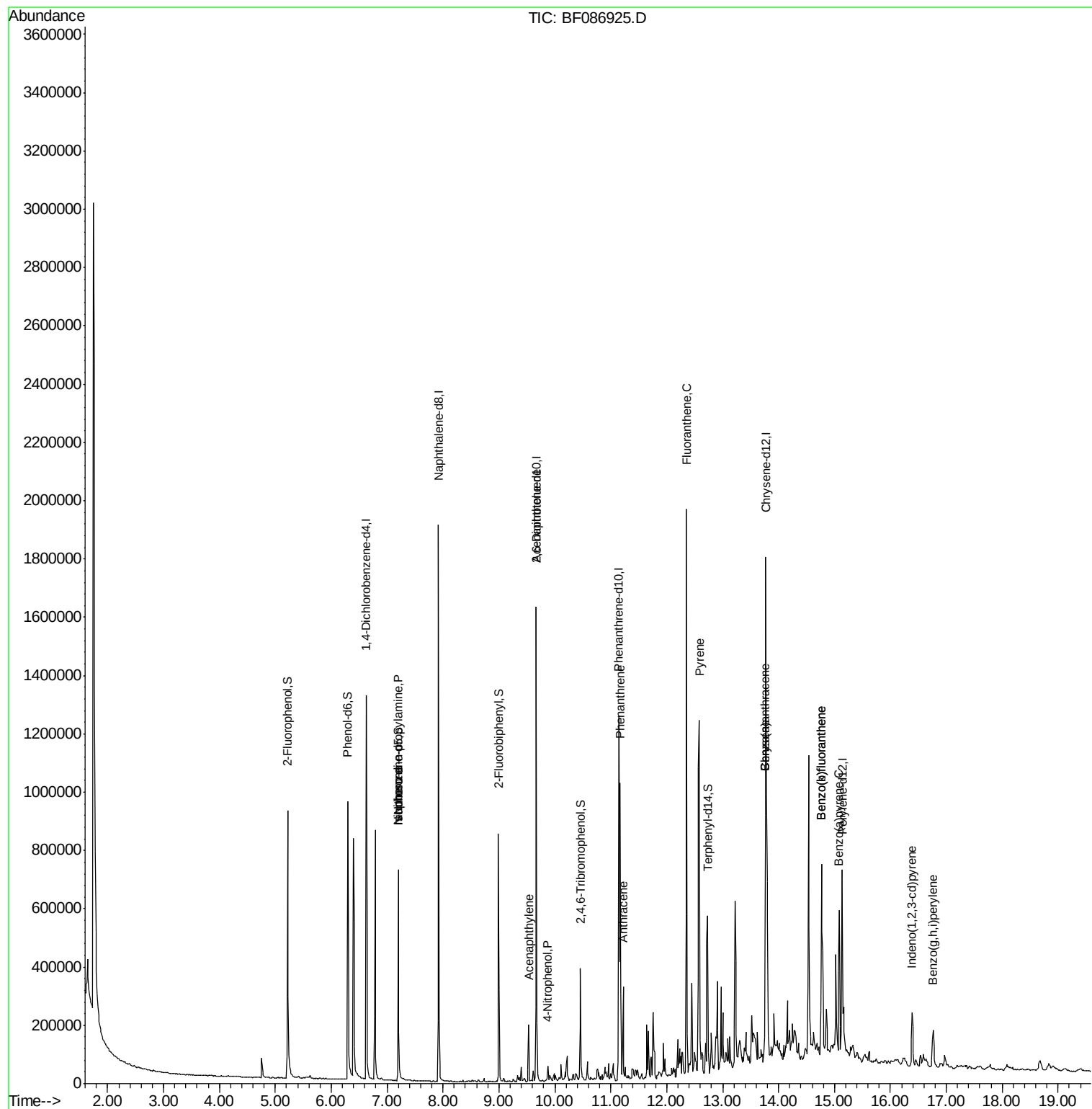
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	187774	20.00	ng	-0.01
21) Naphthalene-d8	7.92	136	733151	20.00	ng	-0.01
38) Acenaphthene-d10	9.67	164	290936	20.00	ng	-0.01
63) Phenanthrene-d10	11.14	188	442418	20.00	ng	-0.01
75) Chrysene-d12	13.77	240	425535	20.00	ng	-0.01
86) Perylene-d12	15.14	264	338048	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.22	112	257547	23.23	ng	-0.01
7) Phenol-d6	6.30	99	330118	22.28	ng	-0.02
23) Nitrobenzene-d5	7.20	82	218623	14.97	ng	-0.02
41) 2,4,6-Tribromophenol	10.46	330	47089	15.29	ng	-0.01
44) 2-Fluorobiphenyl	8.99	172	271929	15.71	ng	-0.01
78) Terphenyl-d14	12.73	244	202416	10.09	ng	0.00
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.20	70	29481	2.85	ng	# 69
25) Isophorone	7.20	82	215813	7.97	ng	# 68
48) Acenaphthylene	9.53	152	81857	3.07	ng	97
50) 2,6-Dinitrotoluene	9.67	165	38211	8.18	ng	# 21
55) 4-Nitrophenol	9.87	139	4328	5.80	ng	# 14
70) Phenanthrene	11.16	178	370212	15.68	ng	99
71) Anthracene	11.22	178	141952	5.88	ng	97
74) Fluoranthene	12.35	202	755080	31.09	ng	95
77) Pyrene	12.58	202	652377	20.02	ng	99
80) Benzo(a)anthracene	13.76	228	376606	15.77	ng	# 83
82) Chrysene	13.76	228	376606	15.50	ng	# 84
85) Indeno(1,2,3-cd)pyrene	16.39	276	110246	5.45	ng	# 87
87) Benzo(b)fluoranthene	14.77	252	433777	19.74	ng	97
88) Benzo(k)fluoranthene	14.77	252	433777	24.11	ng	98
89) Benzo(a)pyrene	15.09	252	218564	11.53	ng	96
91) Benzo(g,h,i)perylene	16.77	276	93828	5.78	ng	# 91

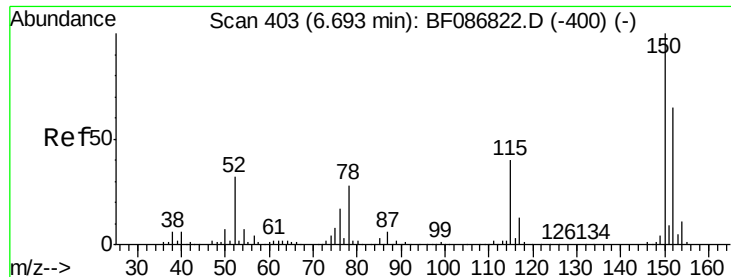
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.63 min Scan# 441

Delta R.T. -0.01 min

Lab File: BF086925.D

Acq: 12 May 2016 10:45

Instrument :

BNA_F

ClientSampleId :

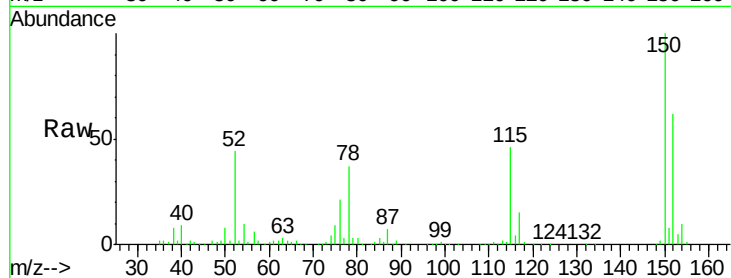
Tot Ion:152 Resp: 187774

Ion Ratio Lower Upper

152 100

150 161.3 125.8 188.6

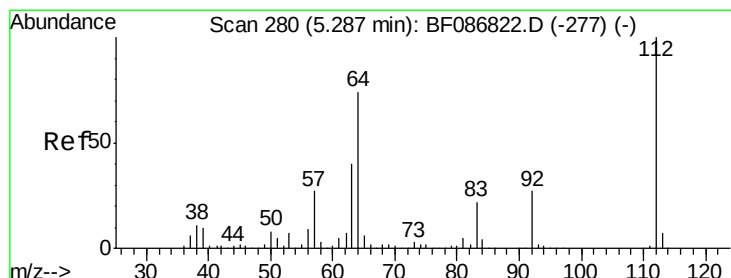
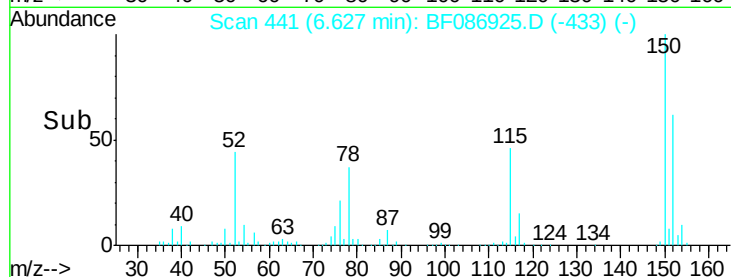
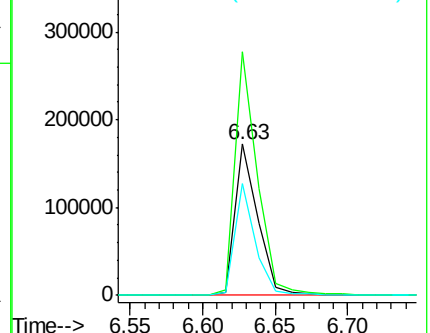
115 74.2 51.5 77.3



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: 23.23 ng

RT: 5.22 min Scan# 318

Delta R.T. -0.01 min

Lab File: BF086925.D

Acq: 12 May 2016 10:45

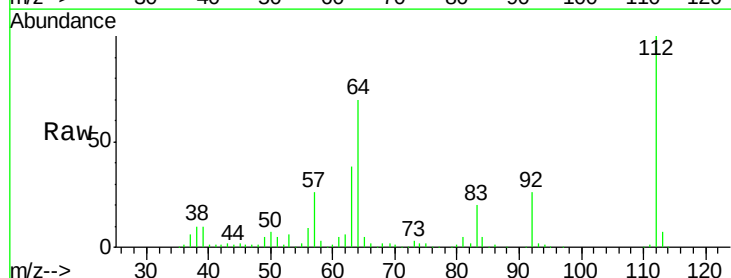
Tgt Ion:112 Resp: 257547

Ion Ratio Lower Upper

112 100

64 70.4 52.1 78.1

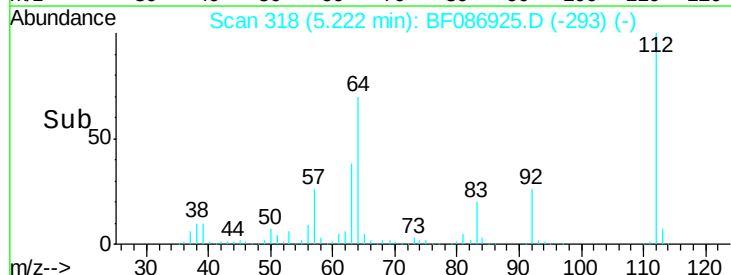
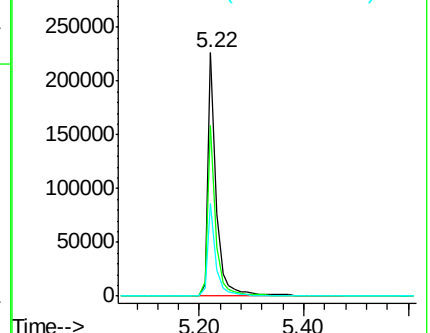
63 38.1 25.7 38.5

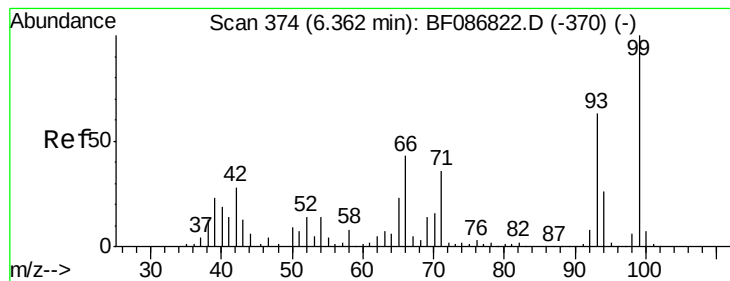


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 22.28 ng

RT: 6.30 min Scan# 412

Delta R.T. -0.02 min

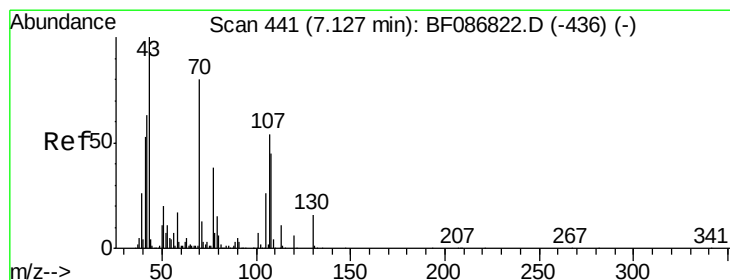
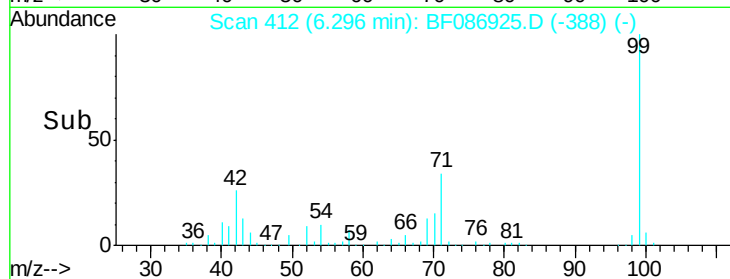
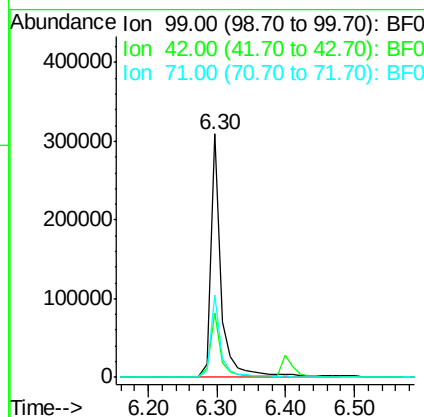
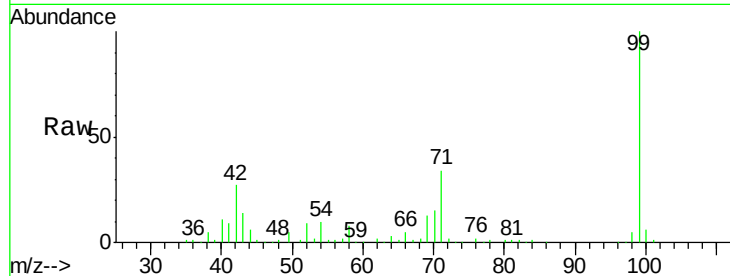
Lab File: BF086925.D

Acq: 12 May 2016 10:45

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 99 Resp: 330118

Ion	Ratio	Lower	Upper
99	100		
42	26.6	13.6	20.4#
71	34.0	24.6	36.8



#19

n-Nitroso-di-n-propylamine

Concen: 2.85 ng

RT: 7.20 min Scan# 491

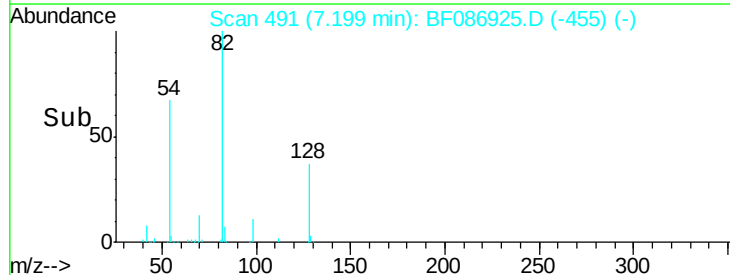
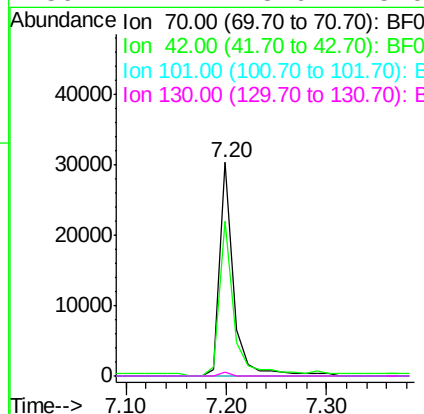
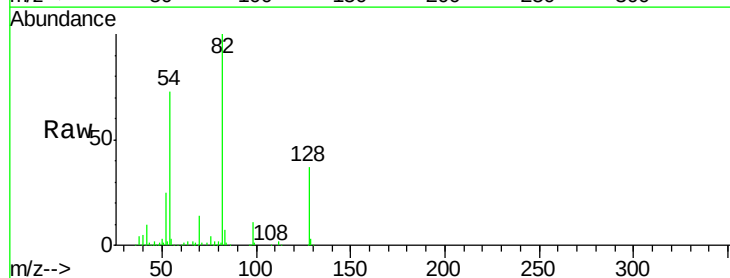
Delta R.T. 0.11 min

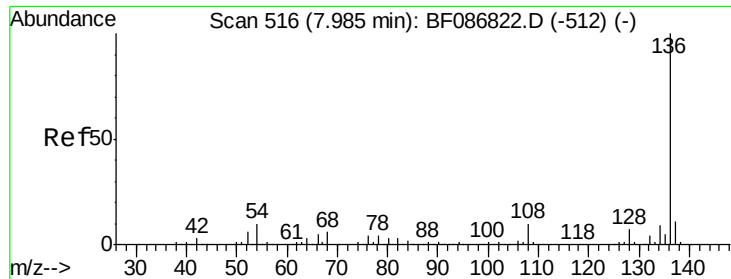
Lab File: BF086925.D

Acq: 12 May 2016 10:45

Tgt Ion: 70 Resp: 29481

Ion	Ratio	Lower	Upper
70	100		
42	72.4	43.1	64.7#
101	0.0	8.1	12.1#
130	2.1	18.6	28.0#

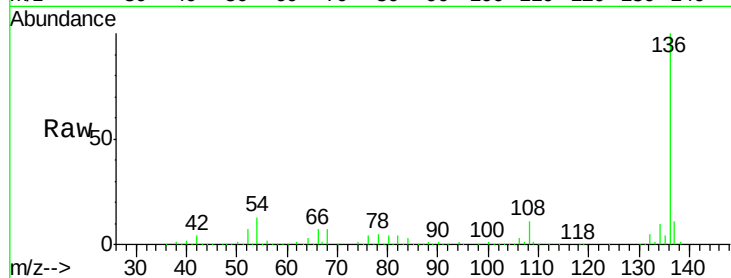




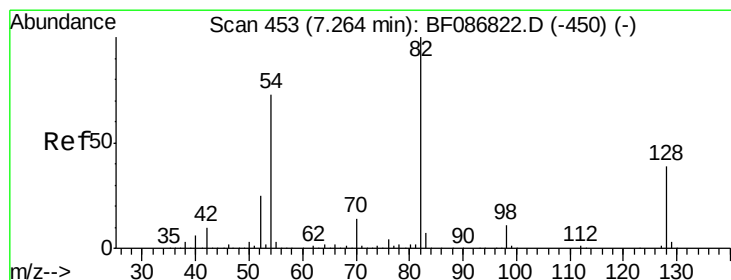
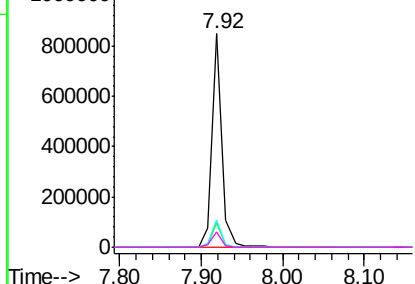
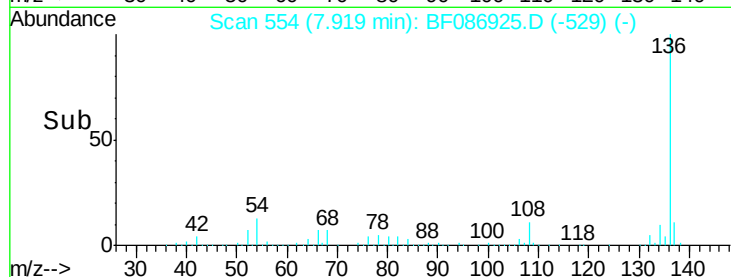
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.92 min Scan# 554
Delta R.T. -0.01 min
Lab File: BF086925.D
Acq: 12 May 2016 10:45

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	733151
Ion Ratio	Lower	Upper
136	100	
137	11.2	8.8 13.2
54	12.7	5.0 7.4#
68	7.0	4.4 6.6#

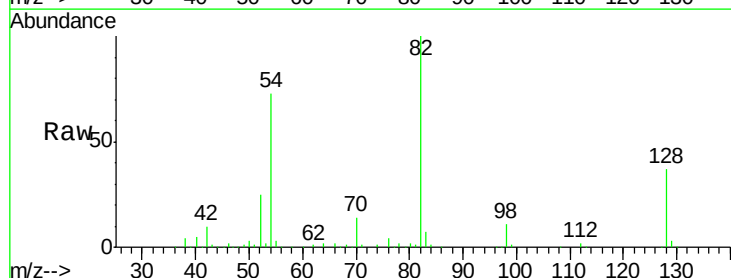


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

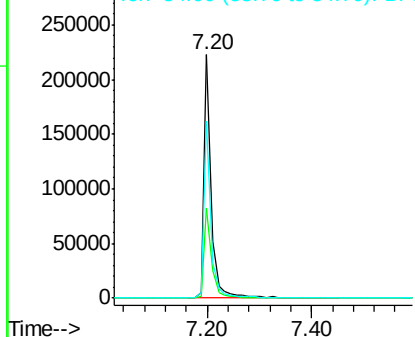
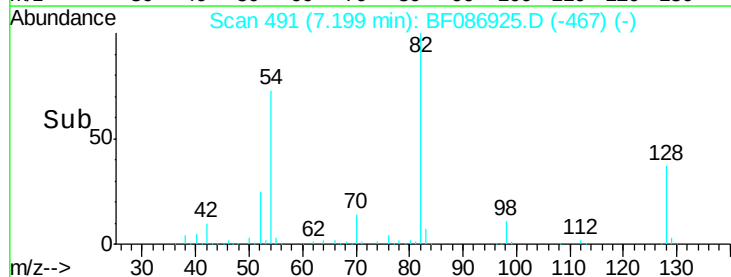


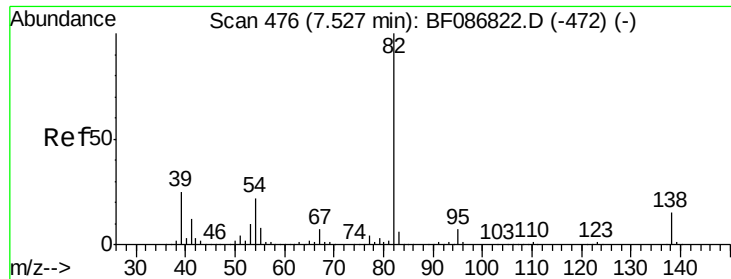
#23
Nitrobenzene-d5
Concen: 14.97 ng
RT: 7.20 min Scan# 491
Delta R.T. -0.02 min
Lab File: BF086925.D
Acq: 12 May 2016 10:45

Tgt Ion: 82	Resp:	218623
Ion Ratio	Lower	Upper
82	100	
128	36.8	40.6 61.0#
54	73.0	38.1 57.1#



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

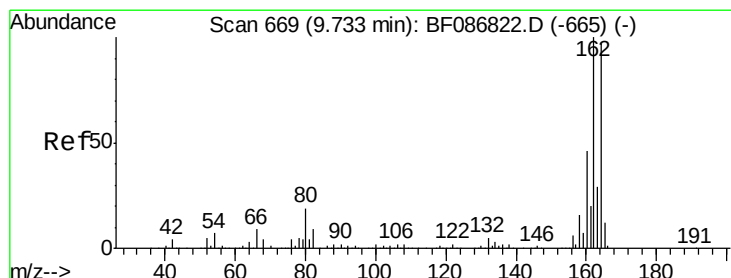
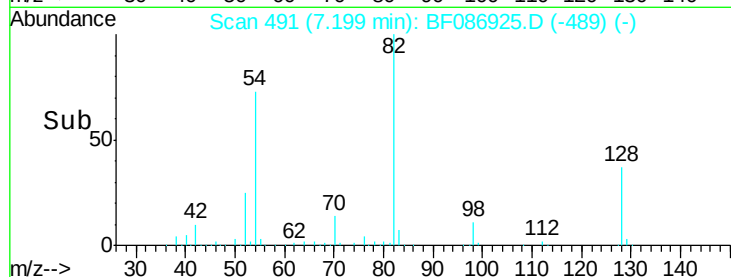
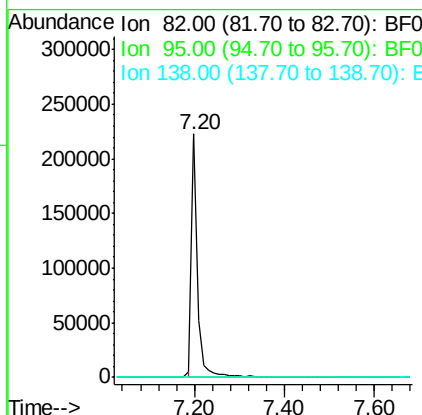
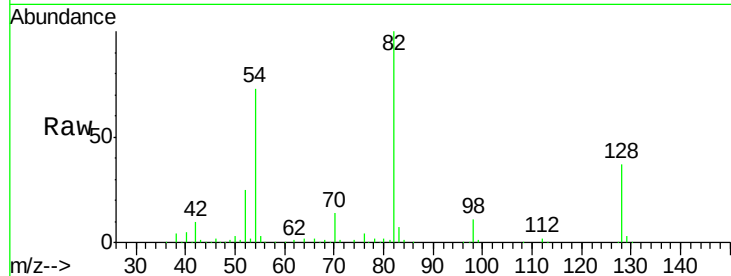




#25
Isophorone
Concen: 7.97 ng
RT: 7.20 min Scan# 491
Delta R.T. -0.27 min
Lab File: BF086925.D
Acq: 12 May 2016 10:45

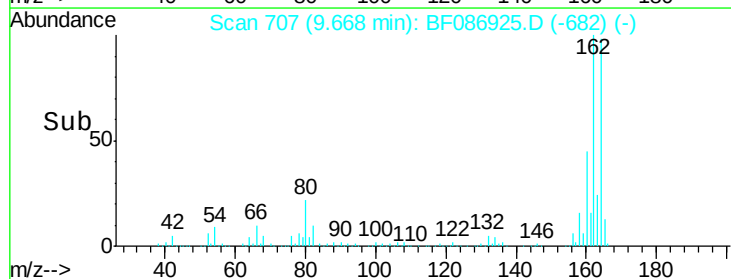
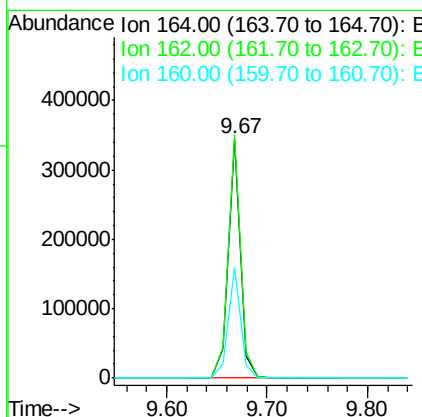
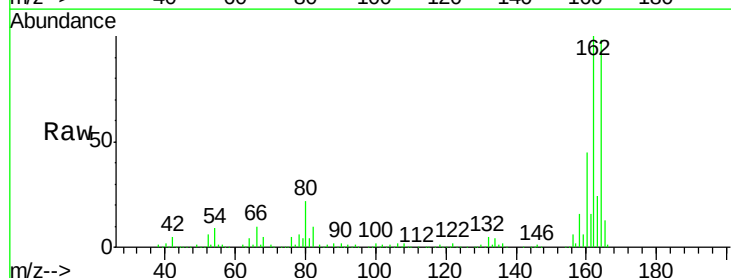
Instrument :
BNA_F
ClientSampled :

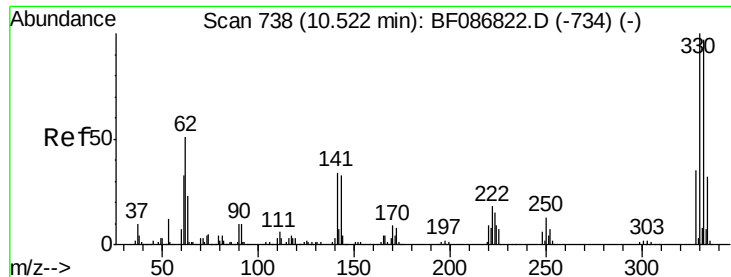
Tot Ion: 82 Resp: 215813
Ion Ratio Lower Upper
82 100
95 0.0 5.1 7.7#
138 0.0 12.4 18.6#



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.67 min Scan# 707
Delta R.T. -0.01 min
Lab File: BF086925.D
Acq: 12 May 2016 10:45

Tgt Ion:164 Resp: 290936
Ion Ratio Lower Upper
164 100
162 102.0 82.8 124.2
160 46.3 36.9 55.3

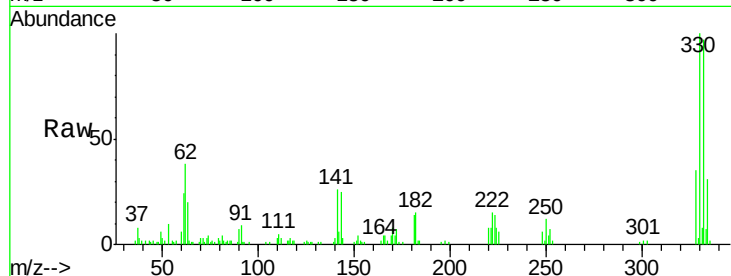




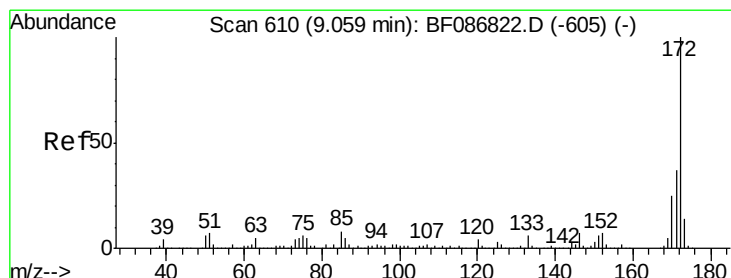
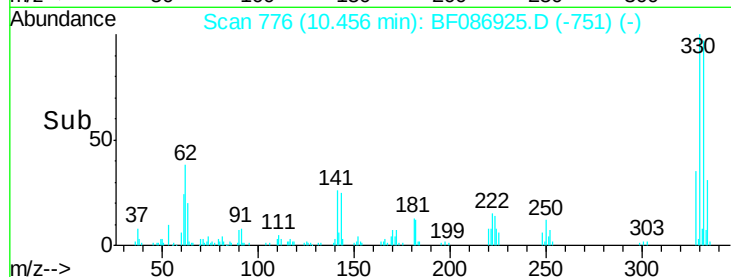
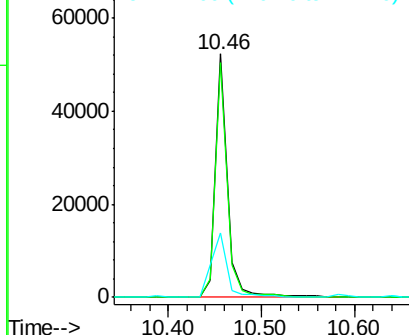
#41
 2,4,6-Tribromophenol
 Concen: 15.29 ng
 RT: 10.46 min Scan# 776
 Delta R.T. -0.01 min
 Lab File: BF086925.D
 Acq: 12 May 2016 10:45

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.7	79.0	118.4
141	35.1	31.2	46.8

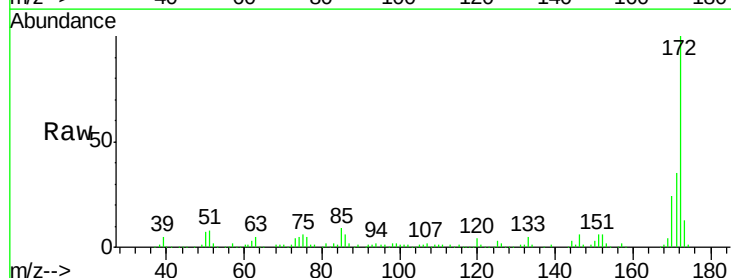


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

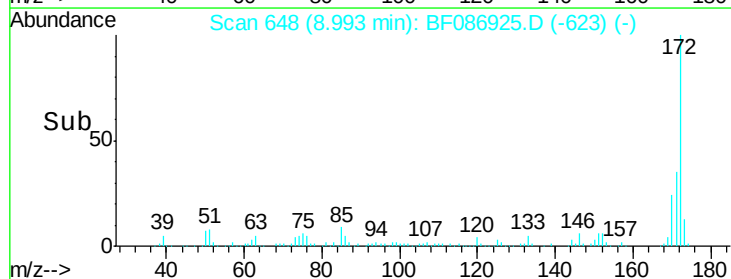
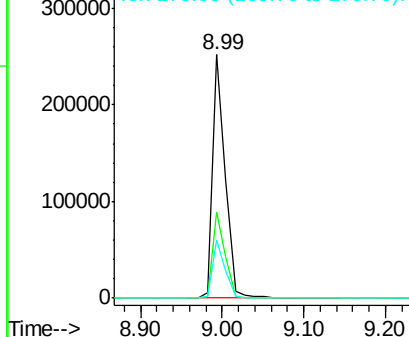


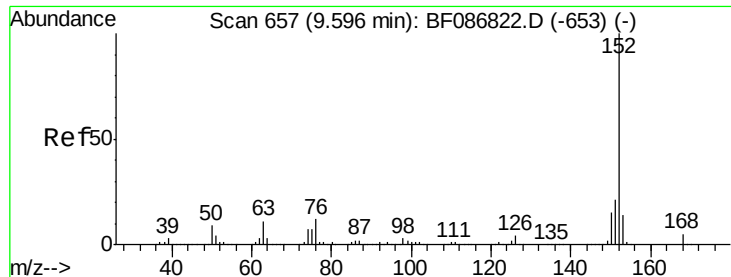
#44
 2-Fluorobiphenyl
 Concen: 15.71 ng
 RT: 8.99 min Scan# 648
 Delta R.T. -0.01 min
 Lab File: BF086925.D
 Acq: 12 May 2016 10:45

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.2	29.0	43.6
170	23.6	19.8	29.8



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

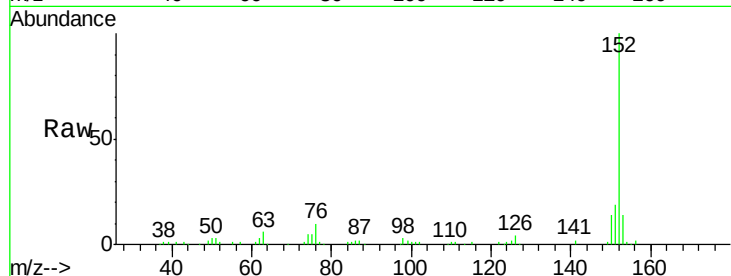




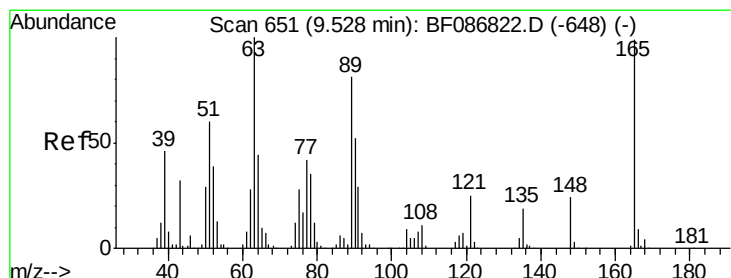
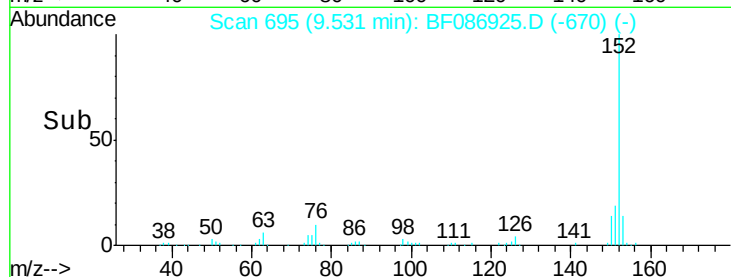
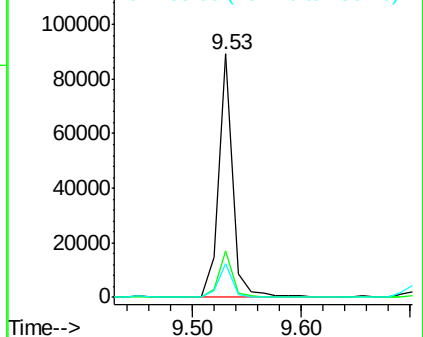
#48
Acenaphthylene
Concen: 3.07 ng
RT: 9.53 min Scan# 695
Delta R.T. -0.01 min
Lab File: BF086925.D
Acq: 12 May 2016 10:45

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.1	16.8	25.2
153	13.8	10.9	16.3

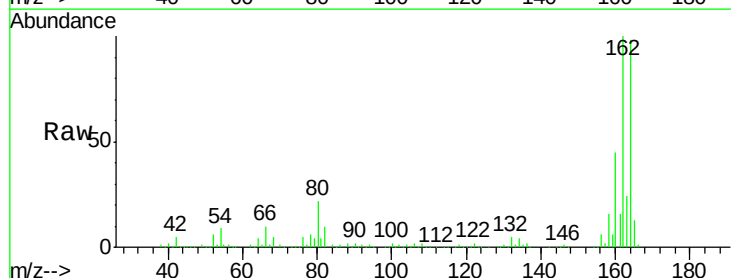


Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

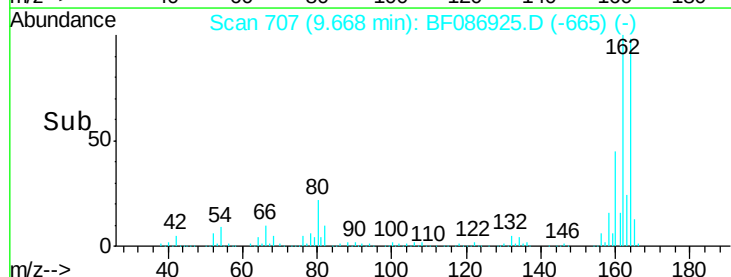
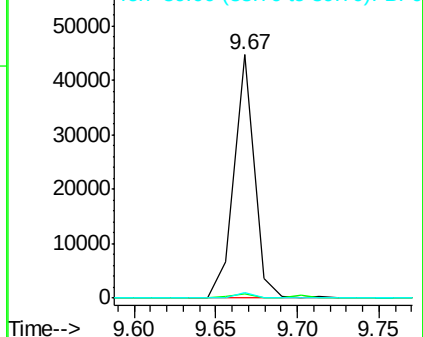


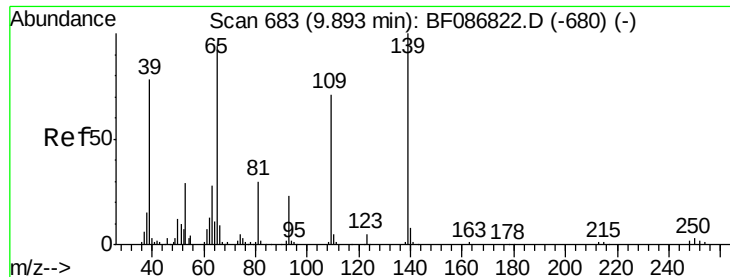
#50
2,6-Dinitrotoluene
Concen: 8.18 ng
RT: 9.67 min Scan# 707
Delta R.T. 0.18 min
Lab File: BF086925.D
Acq: 12 May 2016 10:45

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.7	51.8	77.8#
89	2.3	50.7	76.1#



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





#55

4-Nitrophenol

Concen: 5.80 ng

RT: 9.87 min Scan# 725

Delta R.T. 0.03 min

Lab File: BF086925.D

Acq: 12 May 2016 10:45

Instrument :

BNA_F

ClientSampleId :

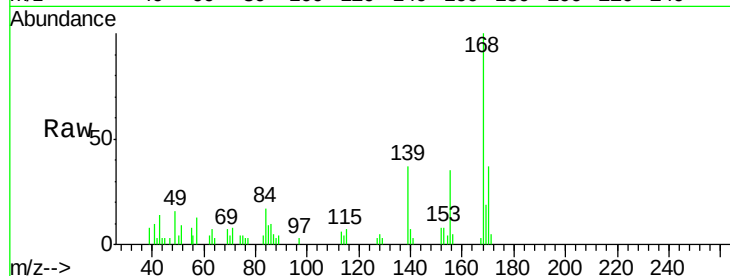
Tot Ion:139 Resp: 4328

Ion Ratio Lower Upper

139 100

109 0.0 36.9 76.9#

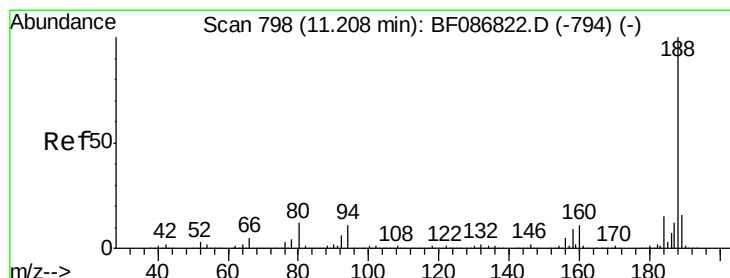
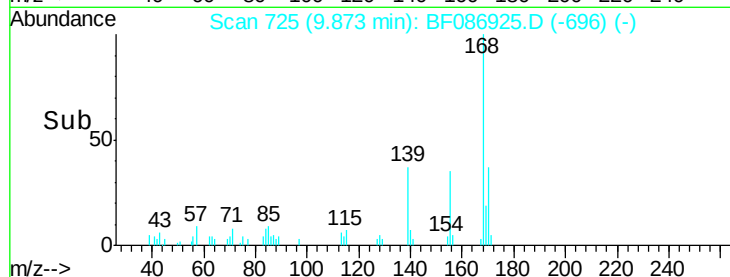
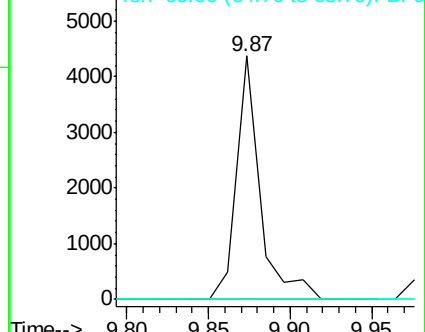
65 0.0 64.0 104.0#



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: 11.14 min Scan# 836

Delta R.T. -0.01 min

Lab File: BF086925.D

Acq: 12 May 2016 10:45

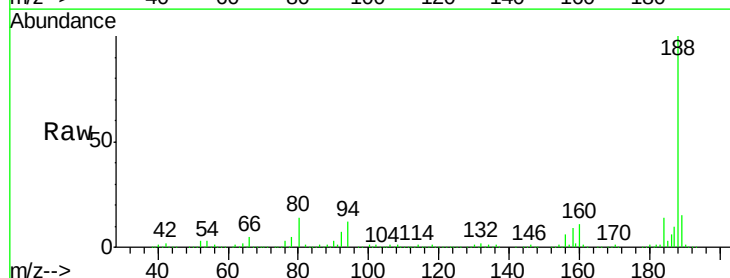
Tgt Ion:188 Resp: 442418

Ion Ratio Lower Upper

188 100

94 12.2 6.8 10.2#

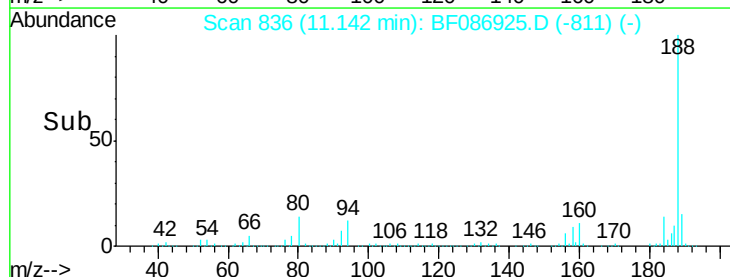
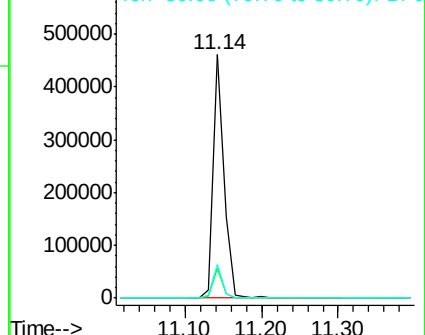
80 13.6 7.1 10.7#

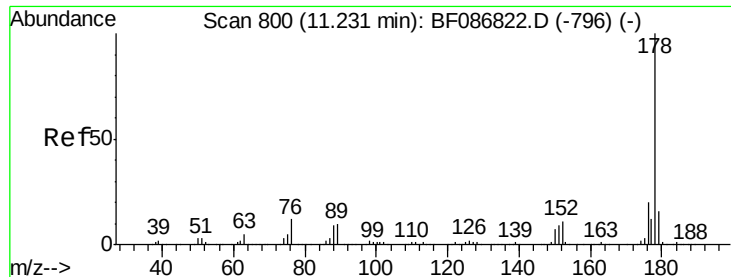


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

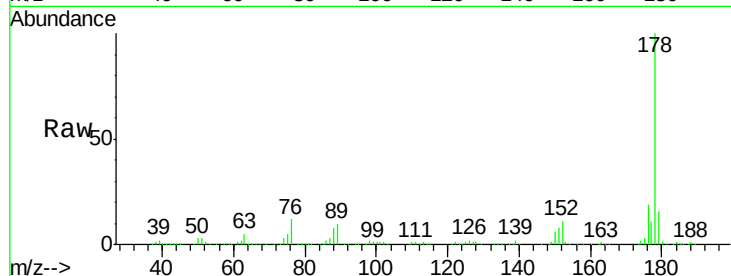




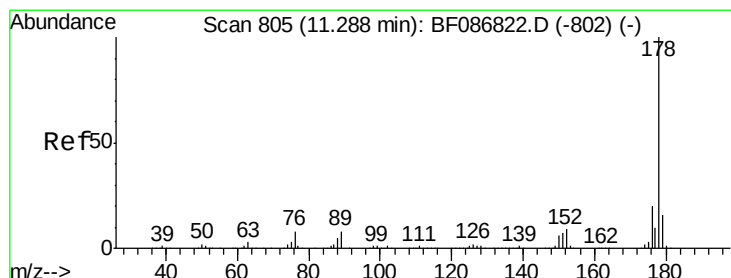
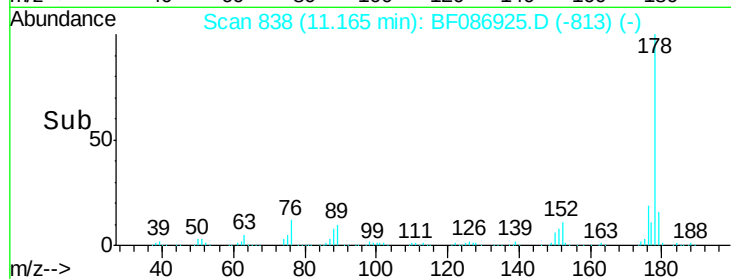
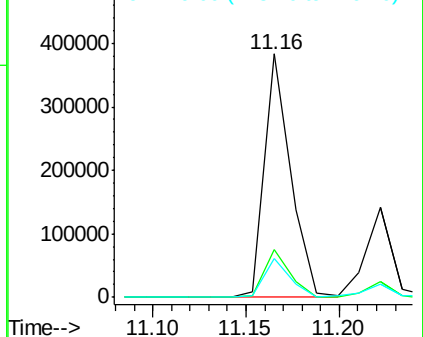
#70
Phenanthrene
Concen: 15.68 ng
RT: 11.16 min Scan# 838
Delta R.T. -0.01 min
Lab File: BF086925.D
Acq: 12 May 2016 10:45

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 370212
Ion Ratio Lower Upper
178 100
176 19.4 16.0 24.0
179 15.7 12.6 18.8

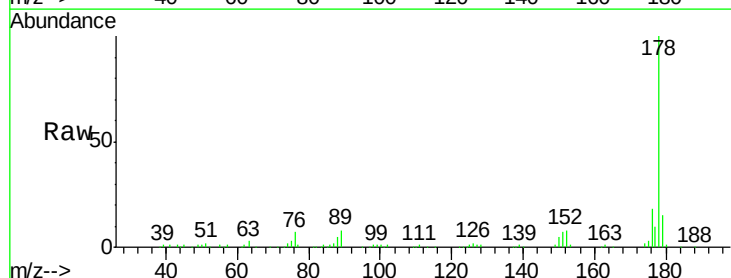


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

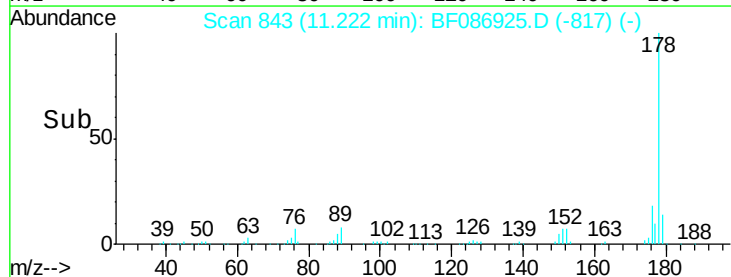
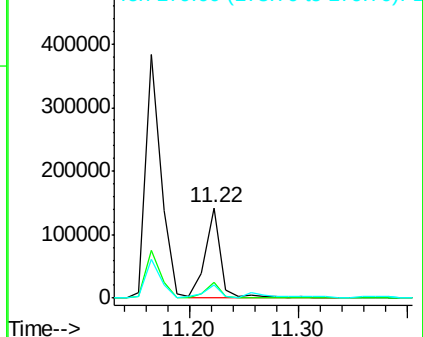


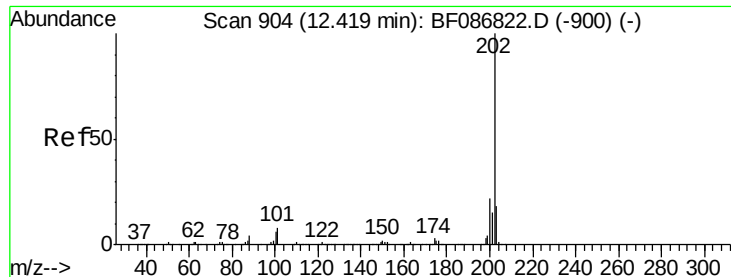
#71
Anthracene
Concen: 5.88 ng
RT: 11.22 min Scan# 843
Delta R.T. 0.00 min
Lab File: BF086925.D
Acq: 12 May 2016 10:45

Tgt Ion:178 Resp: 141952
Ion Ratio Lower Upper
178 100
176 18.1 15.6 23.4
179 14.6 12.7 19.1



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: 31.09 ng

RT: 12.35 min Scan# 942

Delta R.T. 0.00 min

Lab File: BF086925.D

Acq: 12 May 2016 10:45

Instrument :

BNA_F

ClientSampled :

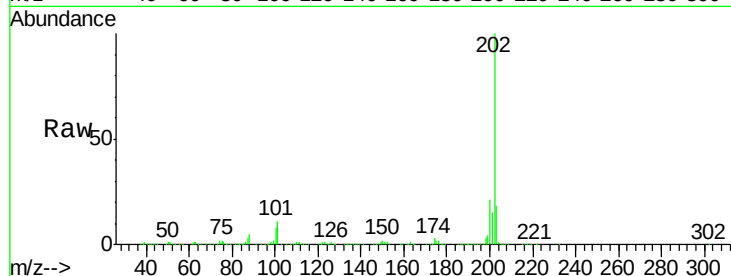
Tot Ion:202 Resp: 755080

Ion Ratio Lower Upper

202 100

101 11.0 0.0 35.4

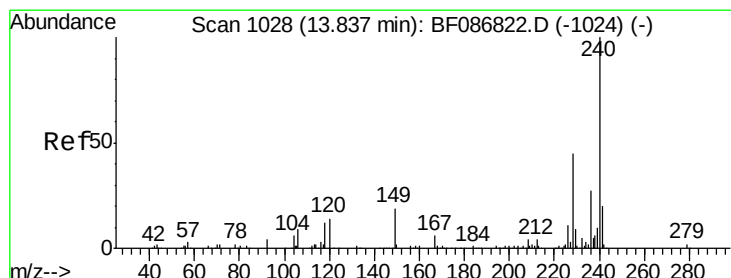
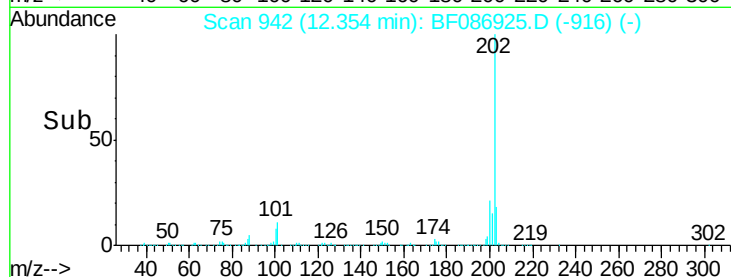
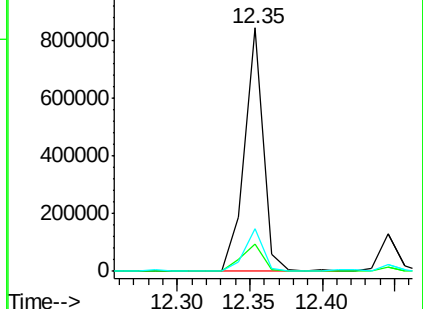
203 17.7 0.0 38.1



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: 13.77 min Scan# 1066

Delta R.T. -0.01 min

Lab File: BF086925.D

Acq: 12 May 2016 10:45

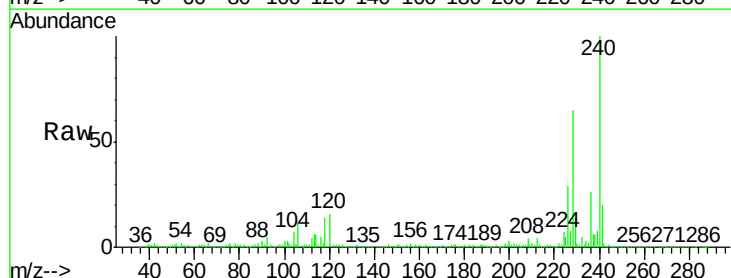
Tgt Ion:240 Resp: 425535

Ion Ratio Lower Upper

240 100

120 16.3 11.2 16.8

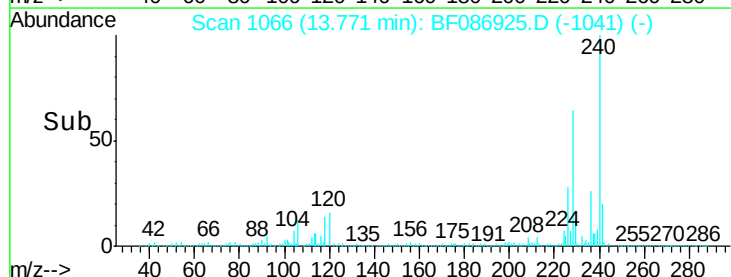
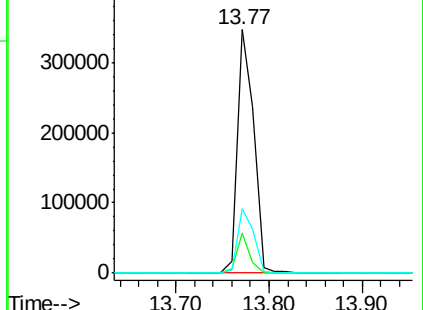
236 26.4 21.2 31.8

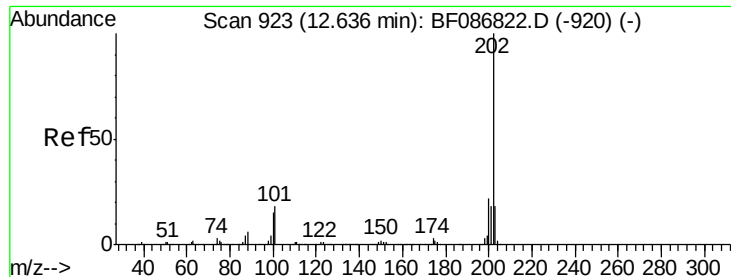


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

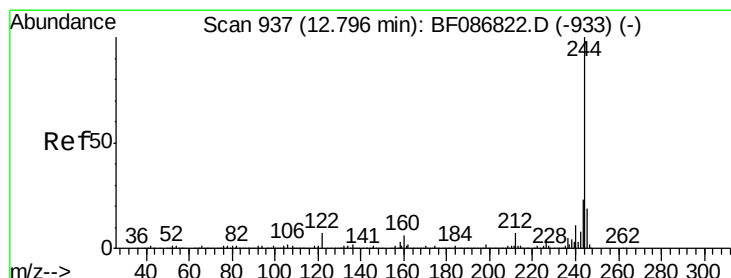
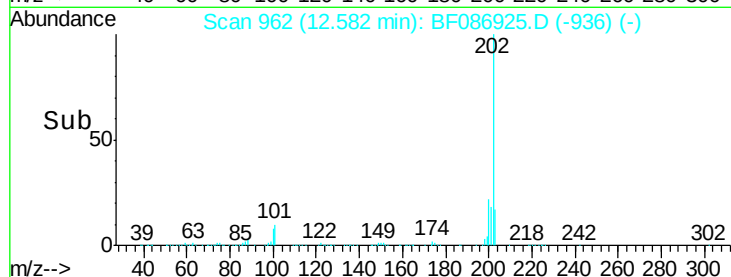
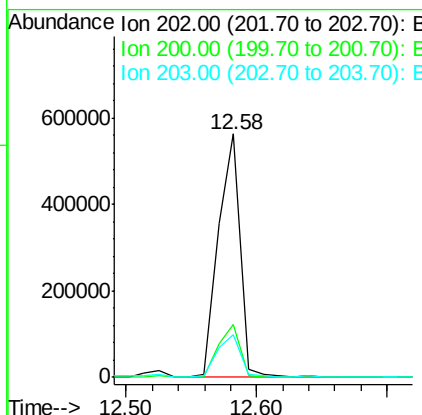
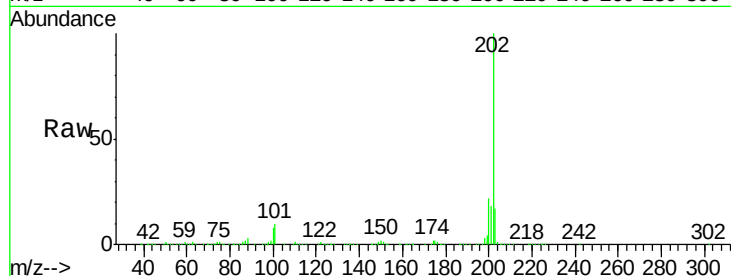




#77
Pvrene
Concen: 20.02 ng
RT: 12.58 min Scan# 962
Delta R.T. 0.00 min
Lab File: BF086925.D
Acq: 12 May 2016 10:45

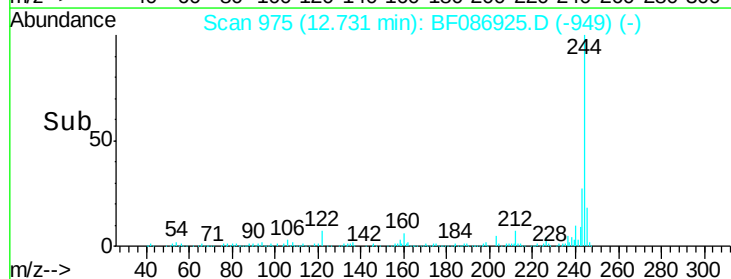
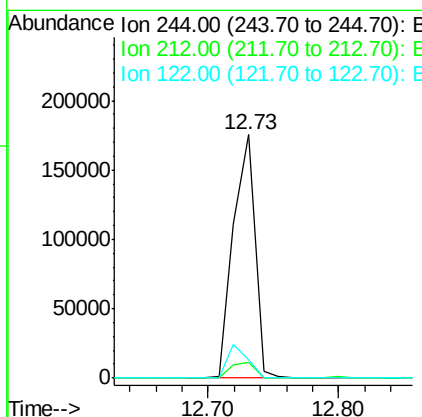
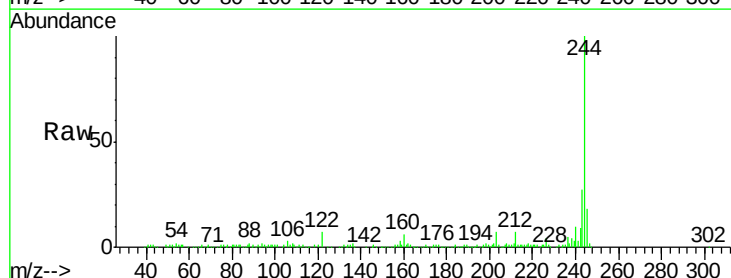
Instrument :
BNA_F
ClientSampleId :

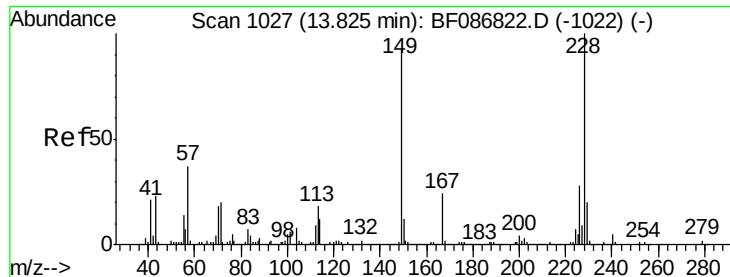
Tot Ion:202 Resp: 652377
Ion Ratio Lower Upper
202 100
200 21.5 17.7 26.5
203 17.3 14.2 21.4



#78
Terphenyl-d14
Concen: 10.09 ng
RT: 12.73 min Scan# 975
Delta R.T. 0.00 min
Lab File: BF086925.D
Acq: 12 May 2016 10:45

Tgt Ion:244 Resp: 202416
Ion Ratio Lower Upper
244 100
212 6.7 6.2 9.2
122 7.3 12.0 18.0#





#80

Benzo(a)anthracene

Concen: 15.77 ng

RT: 13.76 min Scan# 1065

Delta R.T. -0.01 min

Lab File: BF086925.D

Acq: 12 May 2016 10:45

Instrument :

BNA_F

ClientSampleId :

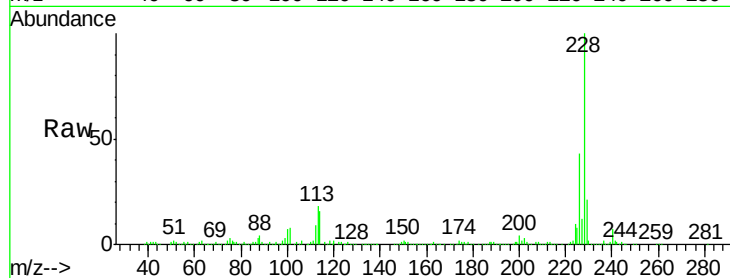
Tot Ion:228 Resp: 376606

Ion Ratio Lower Upper

228 100

226 43.3 22.5 33.7#

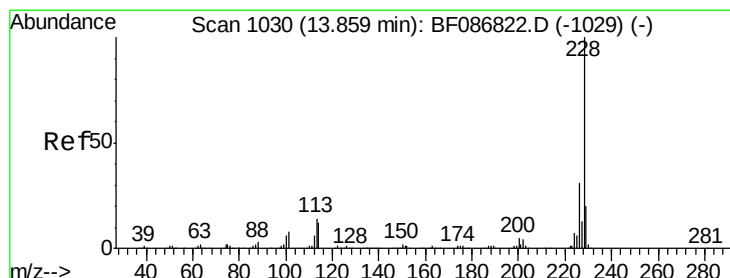
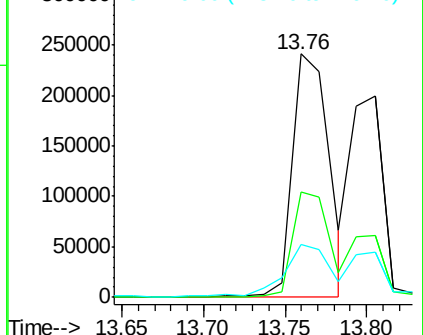
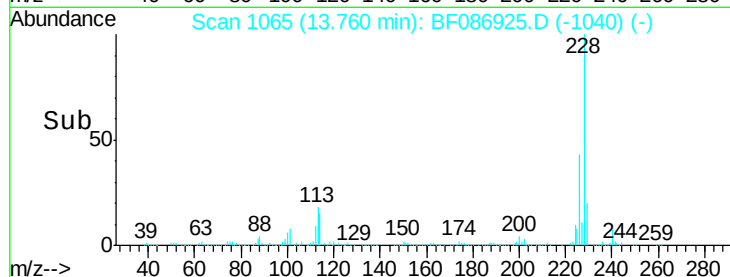
229 21.5 16.6 25.0



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: 15.50 ng

RT: 13.76 min Scan# 1065

Delta R.T. -0.05 min

Lab File: BF086925.D

Acq: 12 May 2016 10:45

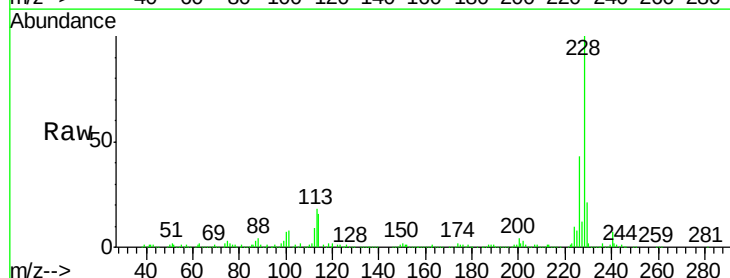
Tgt Ion:228 Resp: 376606

Ion Ratio Lower Upper

228 100

226 43.3 24.4 36.6#

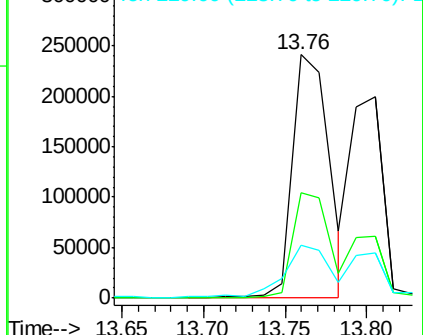
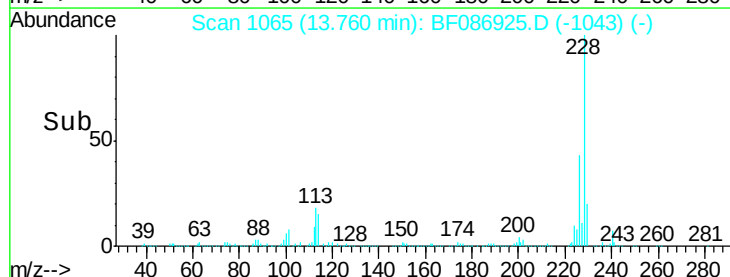
229 21.5 15.8 23.8

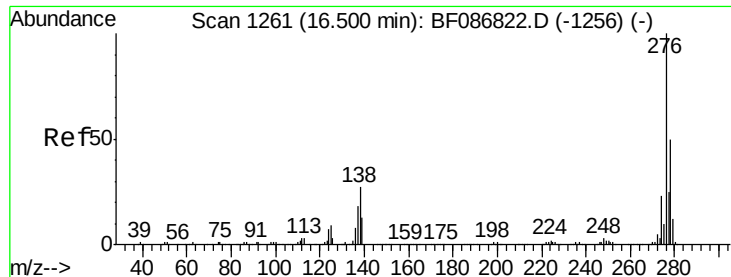


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

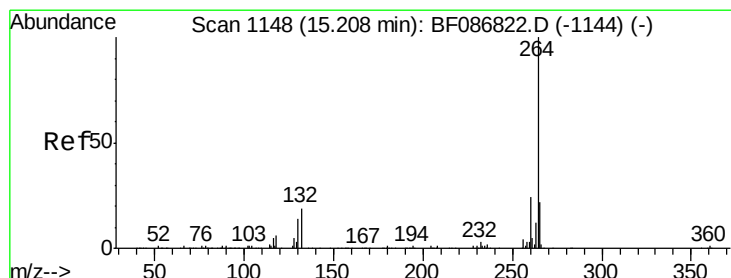
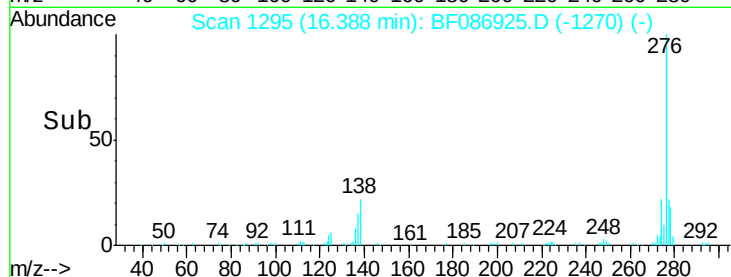
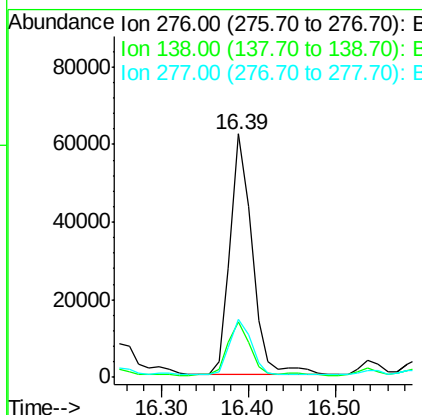
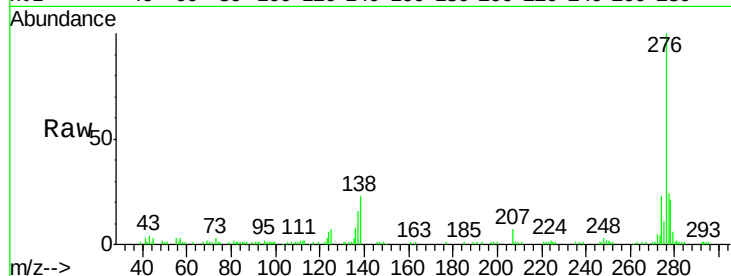




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.45 ng
 RT: 16.39 min Scan# 1295
 Delta R.T. -0.01 min
 Lab File: BF086925.D
 Acq: 12 May 2016 10:45

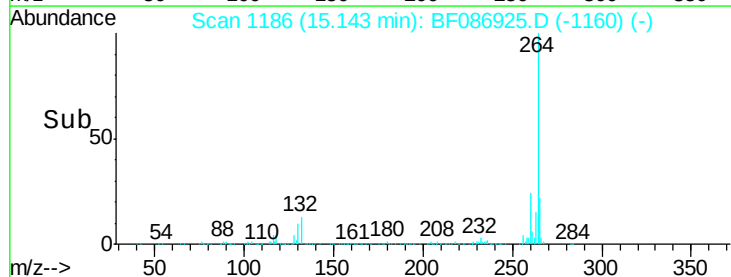
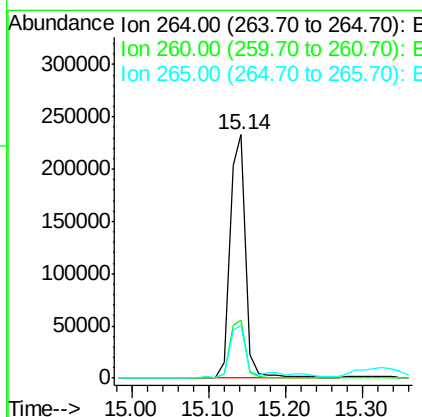
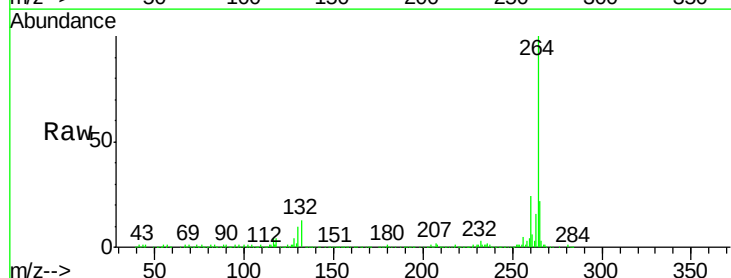
Instrument :
 BNA_F
 ClientSampleId :

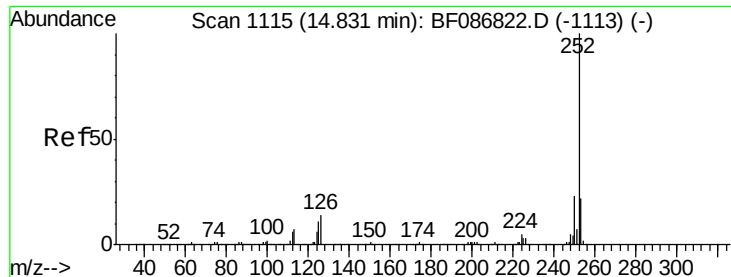
Tot Ion:276 Resp: 110246
 Ion Ratio Lower Upper
 276 100
 138 22.0 25.6 38.4#
 277 22.2 20.5 30.7



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.14 min Scan# 1186
 Delta R.T. 0.00 min
 Lab File: BF086925.D
 Acq: 12 May 2016 10:45

Tgt Ion:264 Resp: 338048
 Ion Ratio Lower Upper
 264 100
 260 24.0 19.5 29.3
 265 21.9 17.3 25.9





#87

Benzo(b)fluoranthene

Concen: 19.74 ng

RT: 14.77 min Scan# 1153

Delta R.T. -0.01 min

Lab File: BF086925.D

Acq: 12 May 2016 10:45

Instrument :

BNA_F

ClientSampleId :

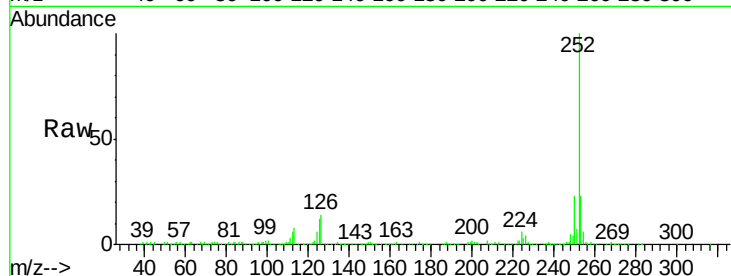
Tot Ion:252 Resp: 433777

Ion Ratio Lower Upper

252 100

253 23.2 17.8 26.6

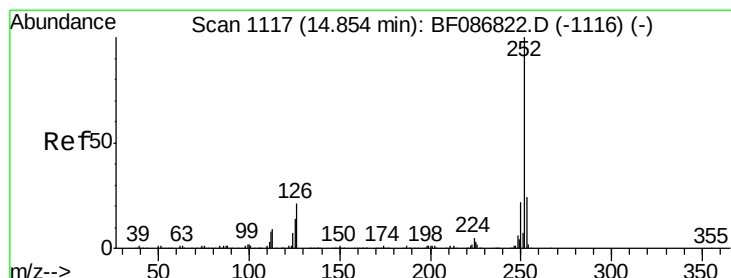
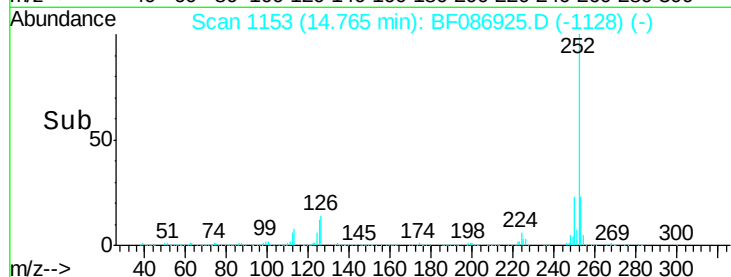
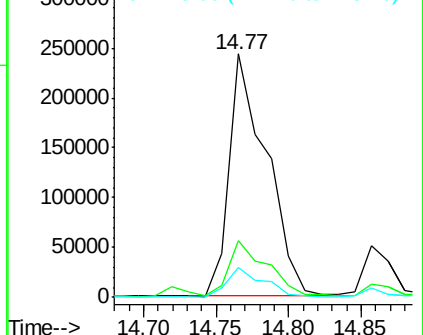
125 12.1 11.4 17.0



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: 24.11 ng

RT: 14.77 min Scan# 1153

Delta R.T. -0.03 min

Lab File: BF086925.D

Acq: 12 May 2016 10:45

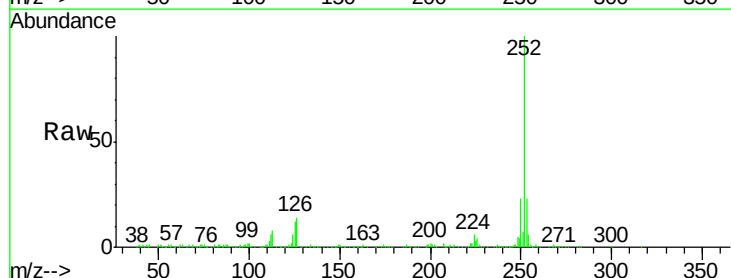
Tgt Ion:252 Resp: 433777

Ion Ratio Lower Upper

252 100

253 23.2 17.8 26.6

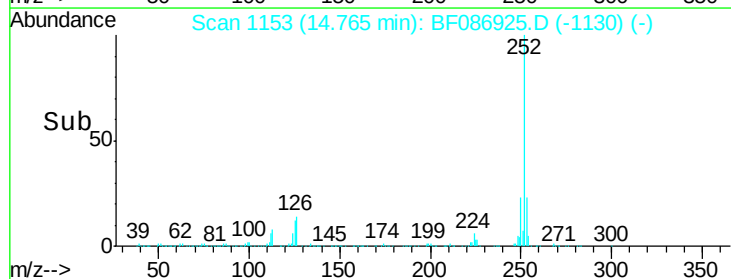
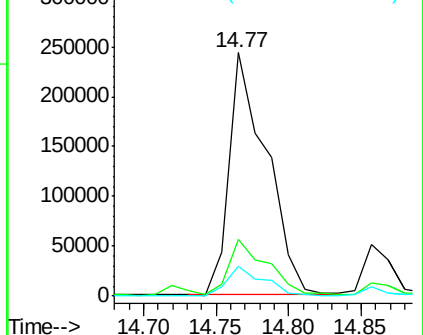
125 12.1 9.1 13.7

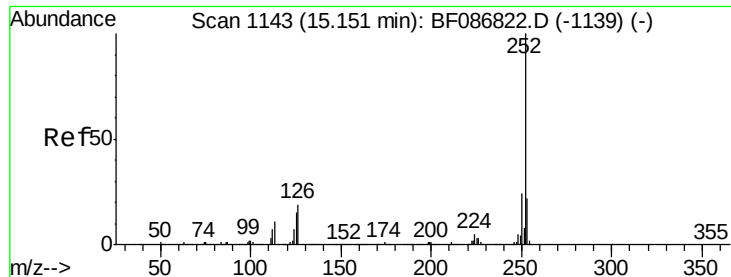


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

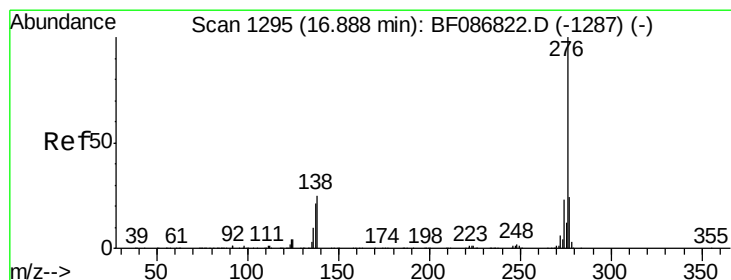
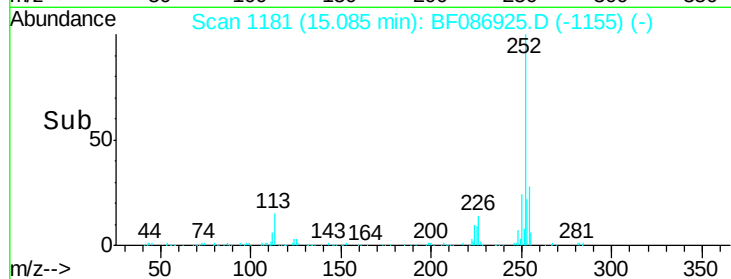
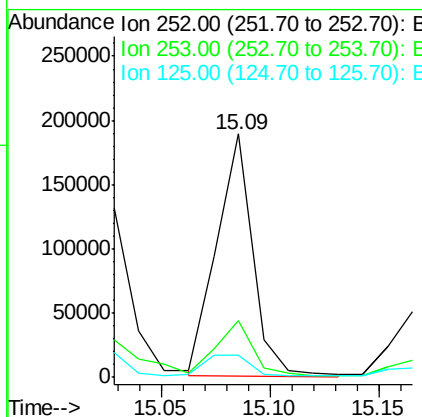
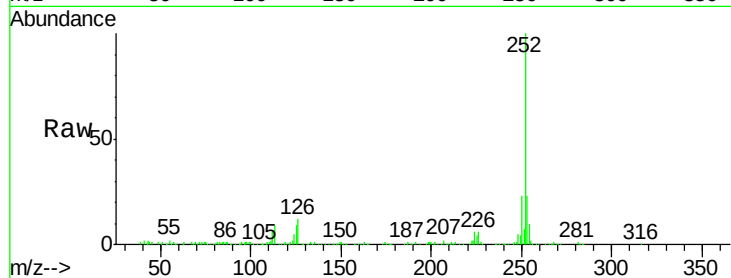




#89
Benzo(a)pyrene
Concen: 11.53 ng
RT: 15.09 min Scan# 1181
Delta R.T. 0.00 min
Lab File: BF086925.D
Acq: 12 May 2016 10:45

Instrument :
BNA_F
ClientSampled :

Tot Ion:252 Resp: 218564
Ion Ratio Lower Upper
252 100
253 23.1 17.2 25.8
125 9.1 9.0 13.6



#91
Benzo(g,h,i)perylene
Concen: 5.78 ng
RT: 16.77 min Scan# 1328
Delta R.T. -0.01 min
Lab File: BF086925.D
Acq: 12 May 2016 10:45

Tgt Ion:276 Resp: 93828
Ion Ratio Lower Upper
276 100
277 23.4 19.6 29.4
138 21.9 23.6 35.4#

