

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122315\
 Data File : BF084044.D
 Acq On : 23 Dec 2015 20:14
 Operator : UM/SJ
 Sample : G4889-01
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-121815

Quant Time: Dec 24 01:27:36 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122215.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 22 18:54:09 2015
 Response via : Initial Calibration

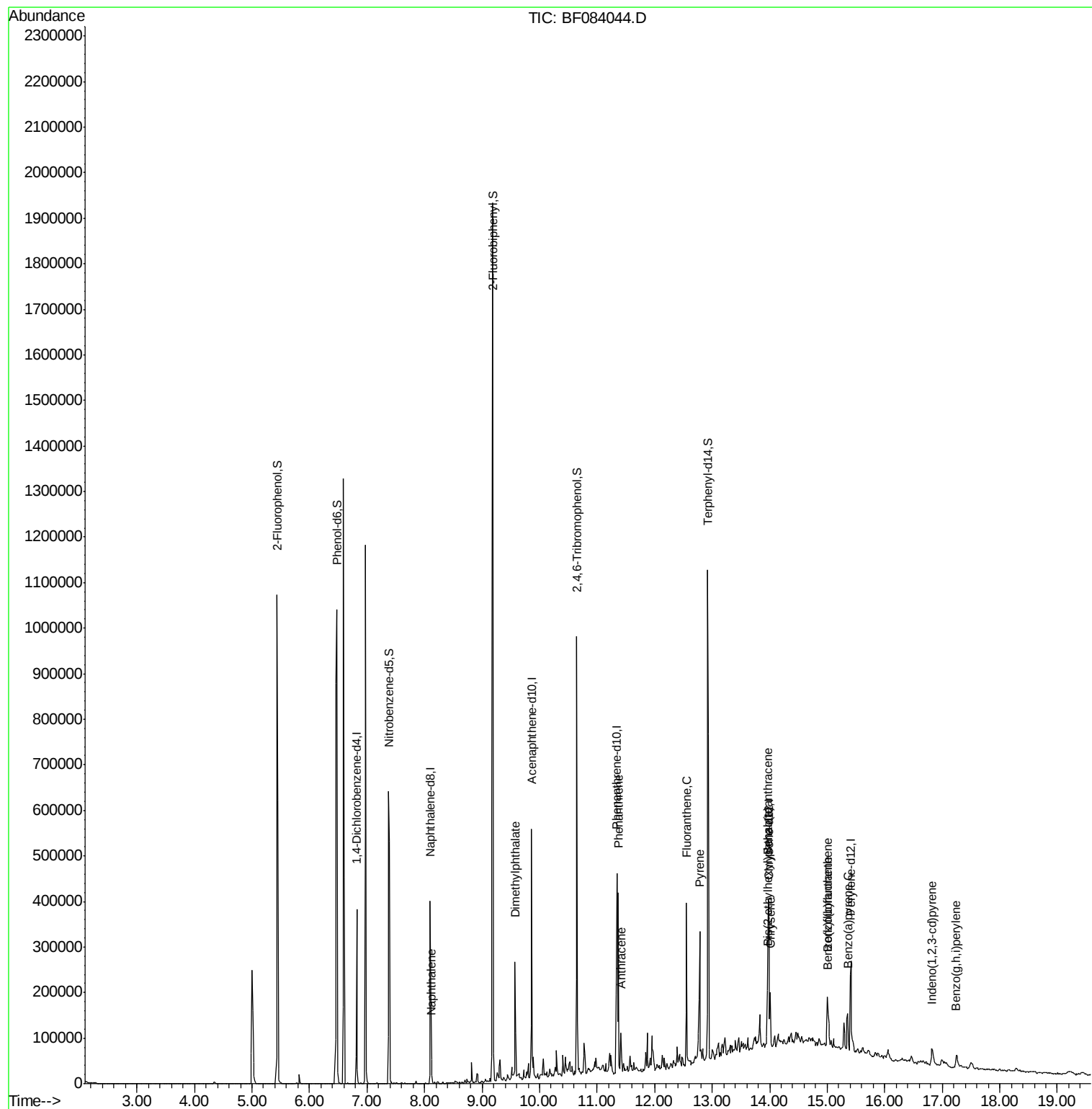
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	56312	20.00	ng	-0.01
21) Naphthalene-d8	8.10	136	211854	20.00	ng	-0.01
38) Acenaphthene-d10	9.86	164	102738	20.00	ng	-0.01
63) Phenanthrene-d10	11.34	188	167816	20.00	ng	-0.01
75) Chrysene-d12	13.99	240	103641	20.00	ng	-0.01
86) Perylene-d12	15.41	264	100504	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	379628	114.95	ng	0.00
7) Phenol-d6	6.48	99	528362	136.06	ng	0.00
23) Nitrobenzene-d5	7.38	82	304597	88.32	ng	-0.01
41) 2,4,6-Tribromophenol	10.65	330	101313	102.52	ng	-0.01
44) 2-Fluorobiphenyl	9.18	172	599619	78.55	ng	-0.01
78) Terphenyl-d14	12.92	244	418742	96.35	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.12	128	25806	2.38	ng	99
49) Dimethylphthalate	9.57	163	108005	13.43	ng	# 90
70) Phenanthrene	11.37	178	145560	15.35	ng	99
71) Anthracene	11.41	178	32839	3.41	ng	98
74) Fluoranthene	12.56	202	142783	15.18	ng	96
77) Pyrene	12.79	202	132235	18.81	ng	98
80) Benzo(a)anthracene	13.97	228	53225m	8.91	ng	
82) Chrysene	14.01	228	45228m	8.15	ng	
83) Bis(2-ethylhexyl)phthalate	13.96	149	20894	4.66	ng	# 95
85) Indeno(1,2,3-cd)pyrene	16.82	276	26610	5.80	ng	96
87) Benzo(b)fluoranthene	15.00	252	49037m	7.74	ng	
88) Benzo(k)fluoranthene	15.01	252	22951m	3.81	ng	
89) Benzo(a)pyrene	15.36	252	41164	7.01	ng	# 94
91) Benzo(a,h,i)perylene	17.24	276	24880	5.06	ng	94

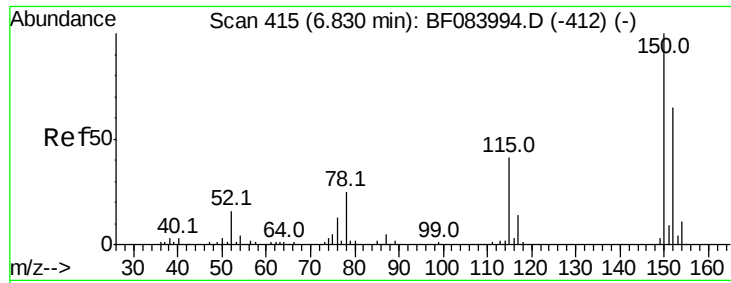
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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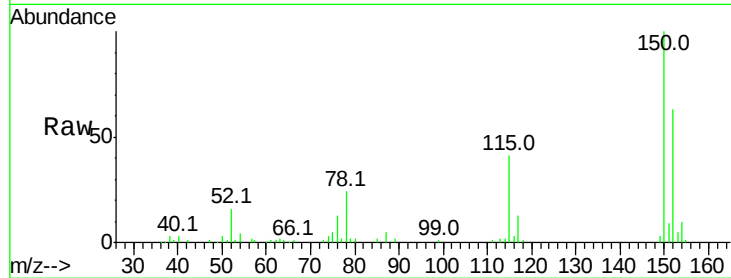


#1

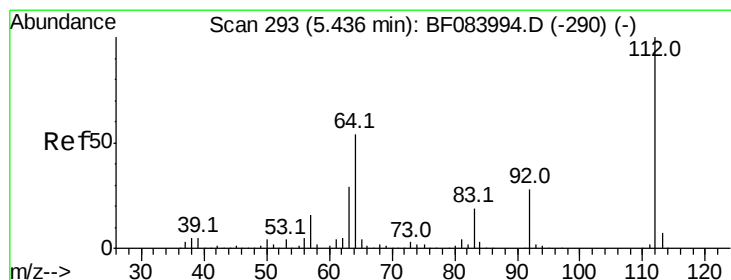
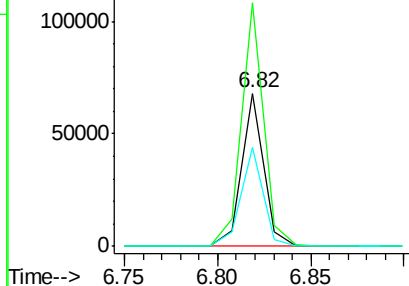
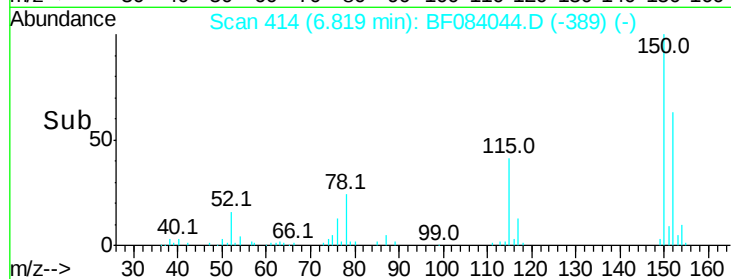
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.82 min Scan# 414
Delta R.T. -0.01 min
Lab File: BF084044.D
Acq: 23 Dec 2015 20:14

Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-121815

Tot Ion:152 Resp: 56312
Ion Ratio Lower Upper
152 100
150 159.0 123.0 184.4
115 64.5 51.4 77.2



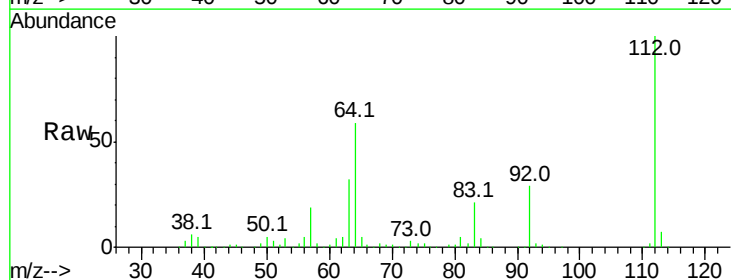
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



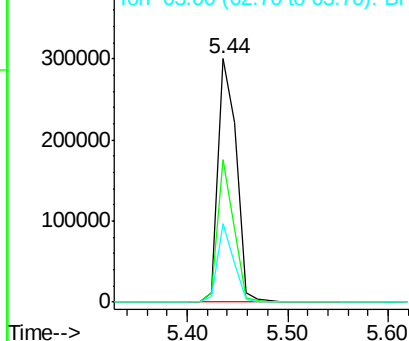
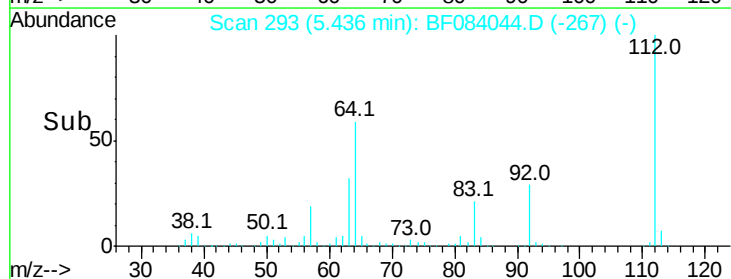
#5

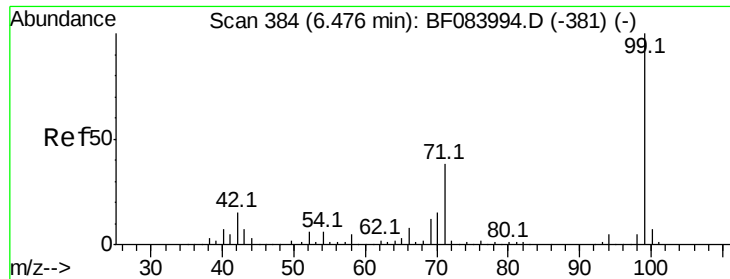
2-Fluorophenol
Concen: 114.95 ng
RT: 5.44 min Scan# 293
Delta R.T. 0.00 min
Lab File: BF084044.D
Acq: 23 Dec 2015 20:14

Tgt Ion:112 Resp: 379628
Ion Ratio Lower Upper
112 100
64 58.5 36.6 55.0#
63 32.1 19.4 29.0#



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: 136.06 ng

RT: 6.48 min Scan# 384

Delta R.T. -0.00 min

Lab File: BF084044.D

Acq: 23 Dec 2015 20:14

Instrument :

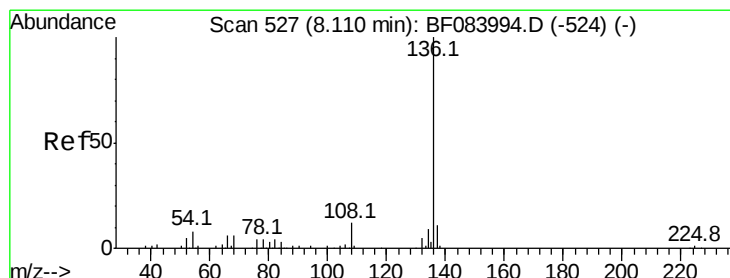
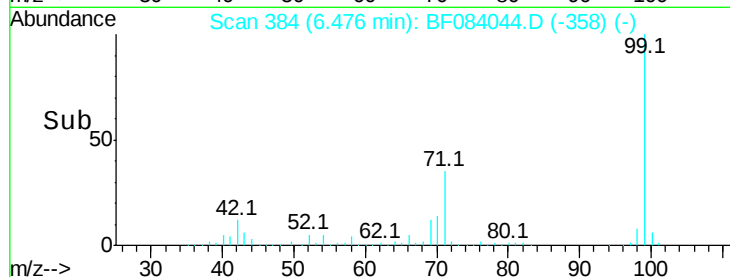
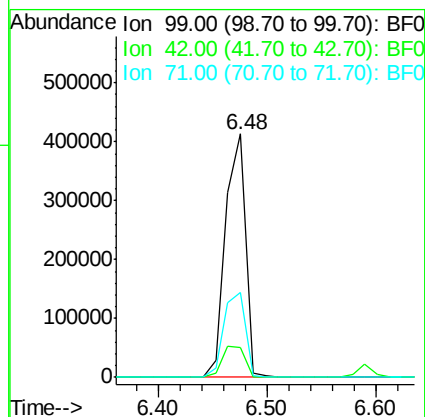
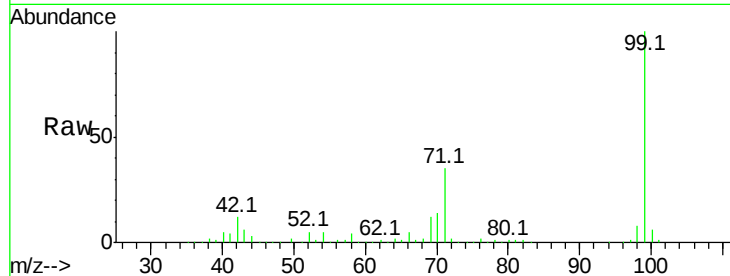
BNA_F

ClientSampleId :

LIBERTY-SF-121815

Tot Ion: 99 Resp: 528362

Ion	Ratio	Lower	Upper
99	100		
42	12.4	12.8	19.2#
71	35.1	30.9	46.3



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.10 min Scan# 526

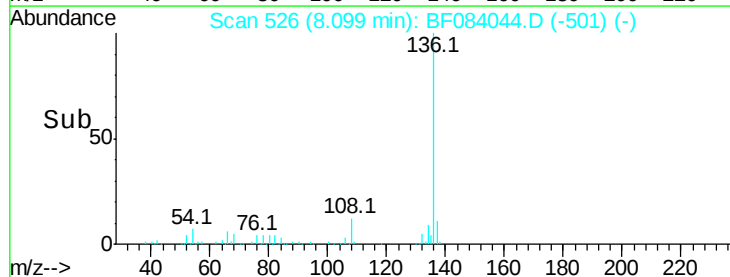
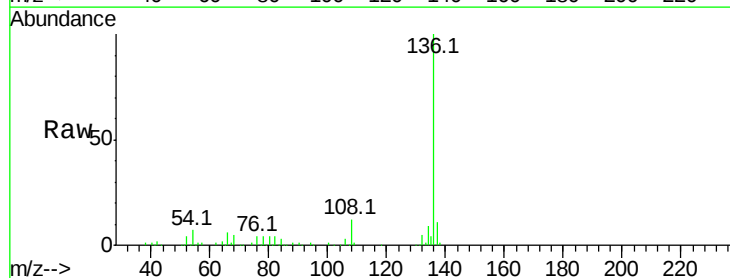
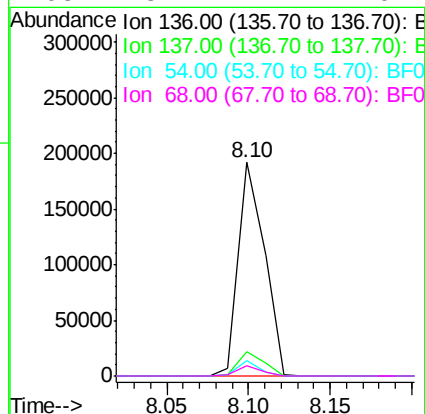
Delta R.T. -0.01 min

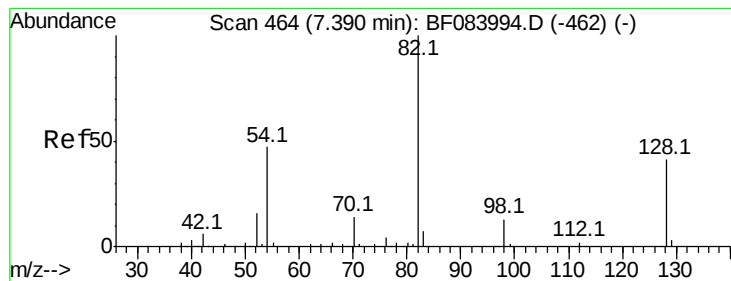
Lab File: BF084044.D

Acq: 23 Dec 2015 20:14

Tgt Ion: 136 Resp: 211854

Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.7	13.1
54	7.3	5.8	8.8
68	5.1	4.2	6.2





#23

Nitrobenzene-d5

Concen: 88.32 ng

RT: 7.38 min Scan# 463

Delta R.T. -0.01 min

Lab File: BF084044.D

Acq: 23 Dec 2015 20:14

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-121815

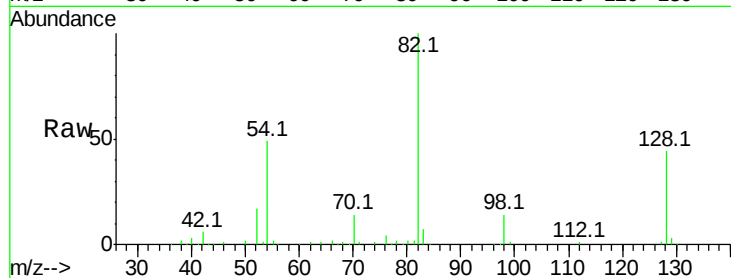
Tot Ion: 82 Resp: 304597

Ion Ratio Lower Upper

82 100

128 43.8 34.6 51.8

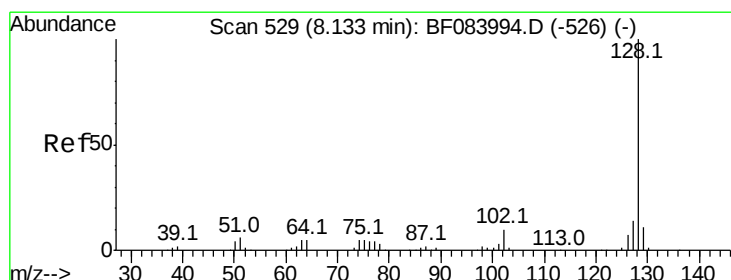
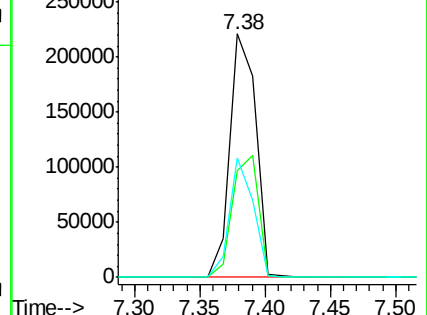
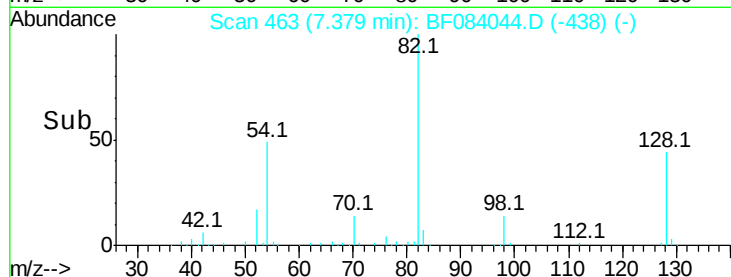
54 49.1 38.4 57.6



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



#31

Naphthalene

Concen: 2.38 ng

RT: 8.12 min Scan# 528

Delta R.T. -0.01 min

Lab File: BF084044.D

Acq: 23 Dec 2015 20:14

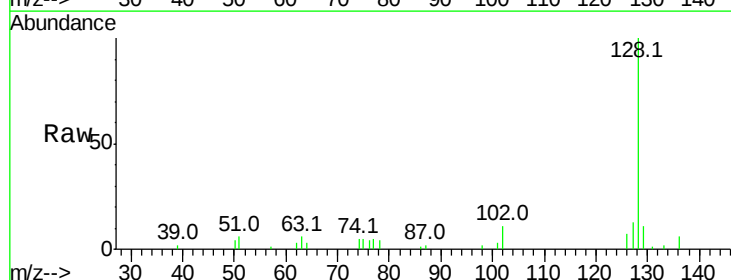
Tgt Ion: 128 Resp: 25806

Ion Ratio Lower Upper

128 100

129 11.3 9.1 13.7

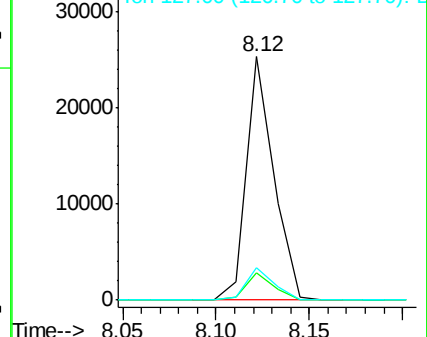
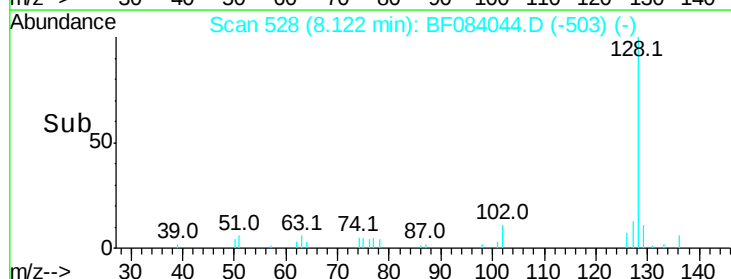
127 13.5 11.1 16.7

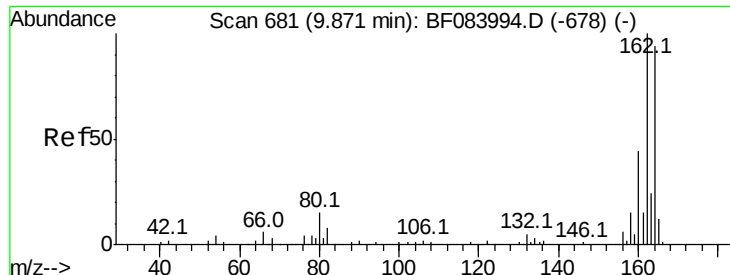


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.86 min Scan# 680

Delta R.T. -0.01 min

Lab File: BF084044.D

Acq: 23 Dec 2015 20:14

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-121815

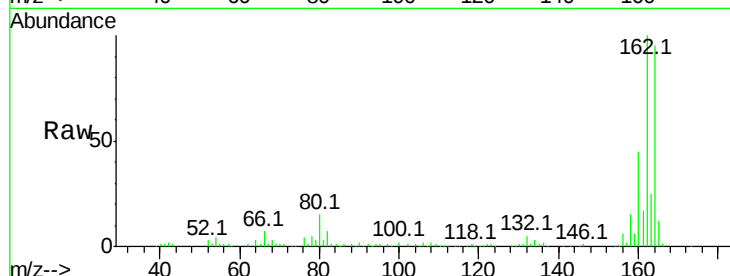
Tot Ion:164 Resp: 102738

Ion Ratio Lower Upper

164 100

162 104.8 85.1 127.7

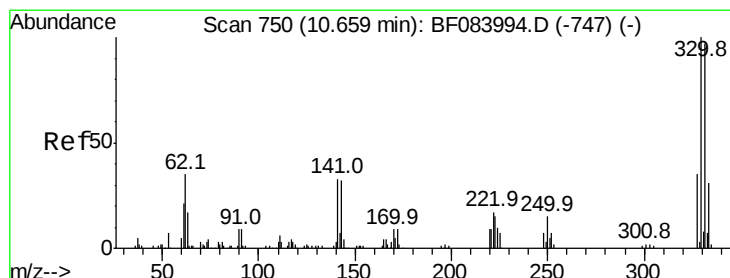
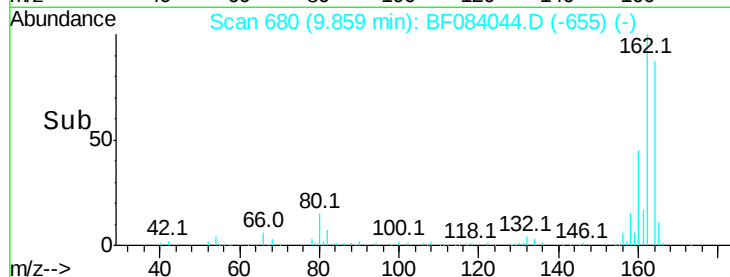
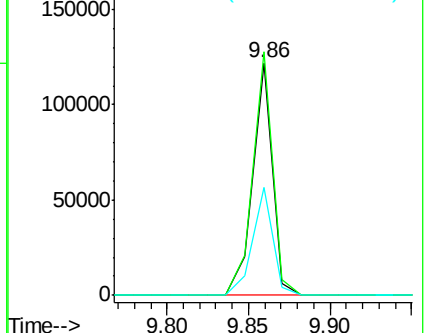
160 46.7 37.5 56.3



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: 102.52 ng

RT: 10.65 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF084044.D

Acq: 23 Dec 2015 20:14

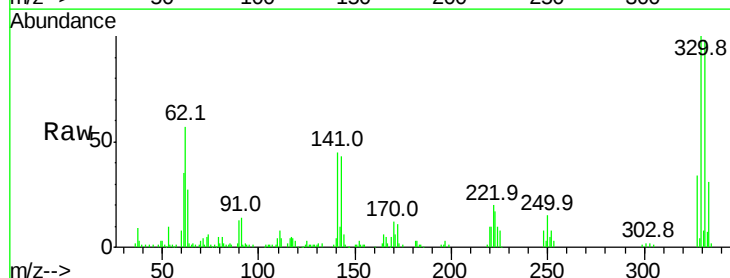
Tgt Ion:330 Resp: 101313

Ion Ratio Lower Upper

330 100

332 98.0 76.6 114.8

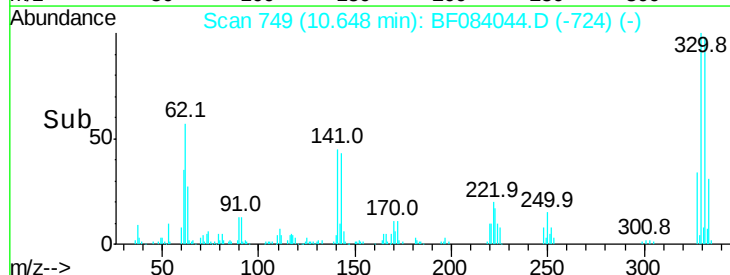
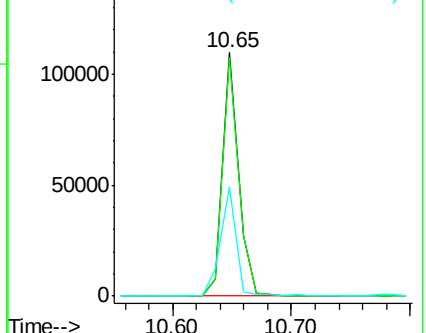
141 46.2 27.8 41.6#

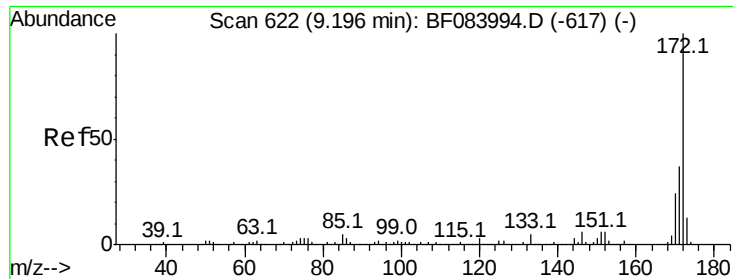


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

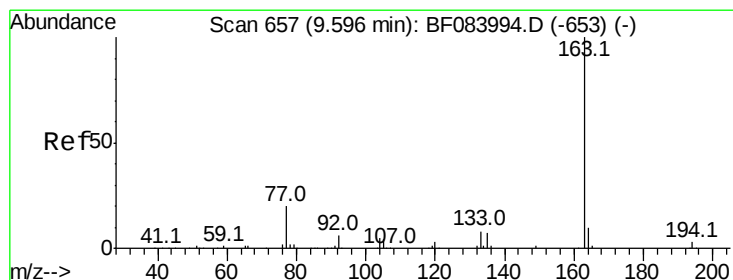
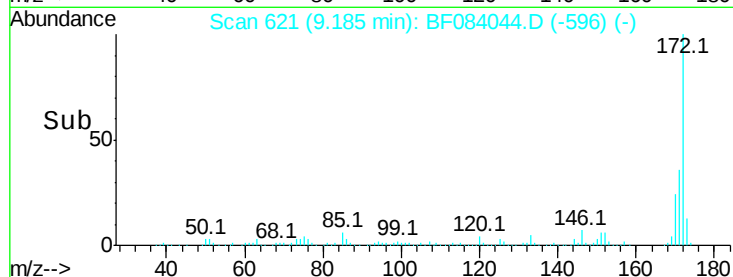
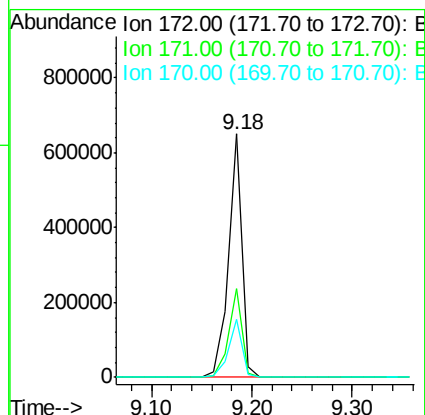
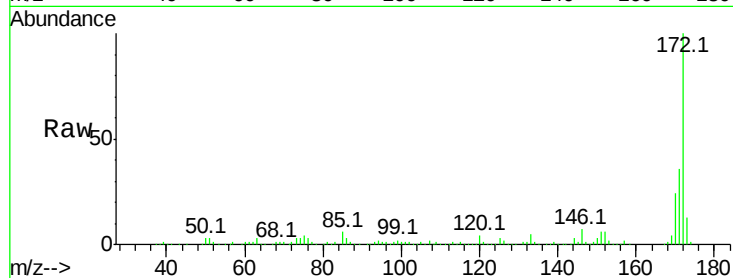




#44
2-Fluorobiphenyl
Concen: 78.55 ng
RT: 9.18 min Scan# 621
Delta R.T. -0.01 min
Lab File: BF084044.D
Acq: 23 Dec 2015 20:14

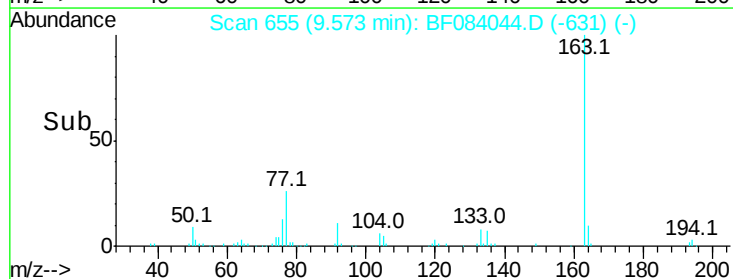
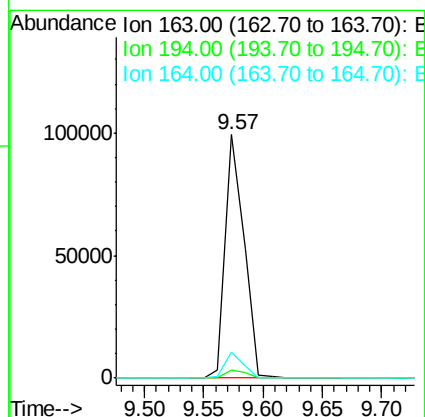
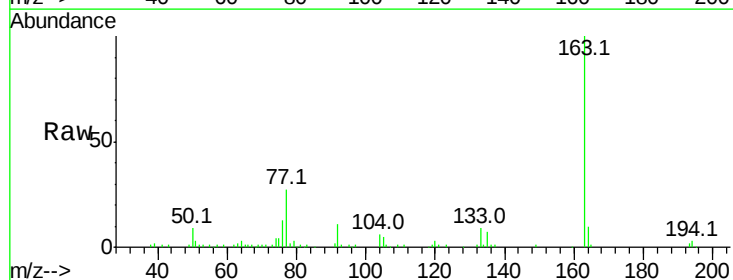
Instrument :
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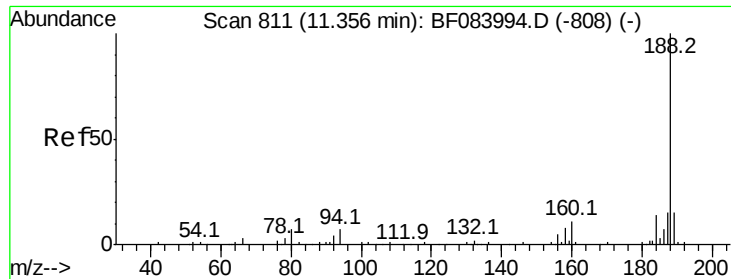
Tot Ion:172 Resp: 599619
Ion Ratio Lower Upper
172 100
171 36.3 28.9 43.3
170 24.0 18.6 27.8



#49
Dimethylphthalate
Concen: 13.43 ng
RT: 9.57 min Scan# 655
Delta R.T. -0.02 min
Lab File: BF084044.D
Acq: 23 Dec 2015 20:14

Tgt Ion:163 Resp: 108005
Ion Ratio Lower Upper
163 100
194 3.3 8.0 12.0#
164 10.4 8.0 12.0

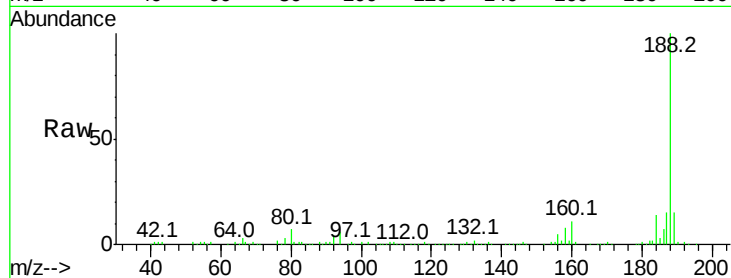




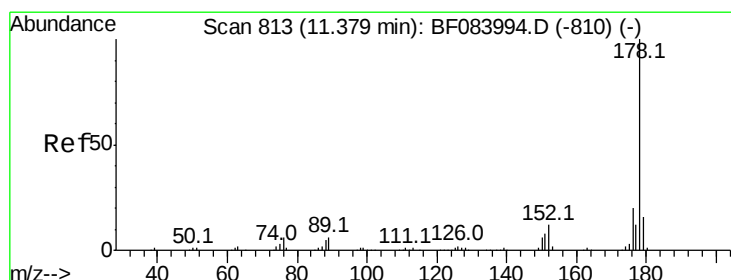
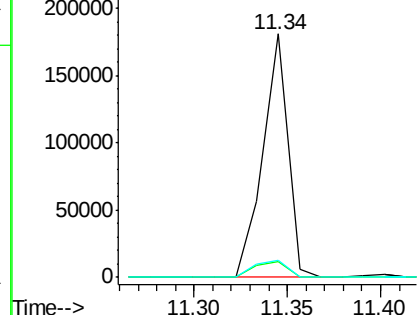
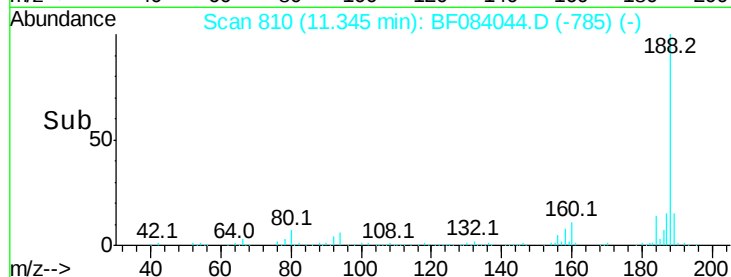
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.34 min Scan# 810
Delta R.T. -0.01 min
Lab File: BF084044.D
Acq: 23 Dec 2015 20:14

Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-121815

Tot Ion:188 Resp: 167816
Ion Ratio Lower Upper
188 100
94 6.3 9.0 13.4#
80 6.8 9.6 14.4#

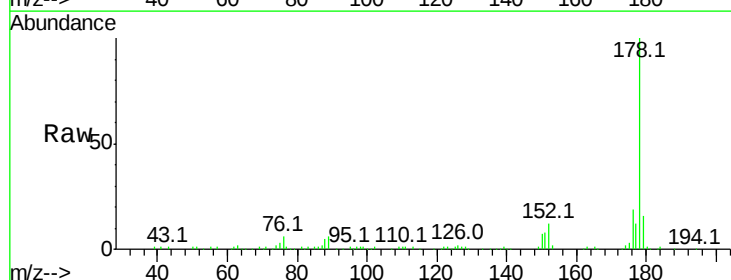


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

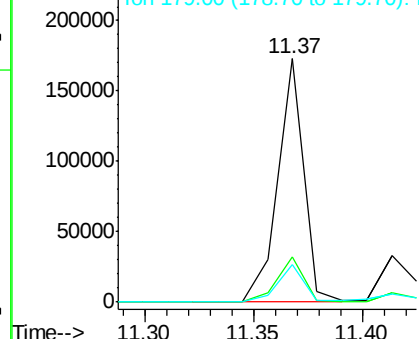
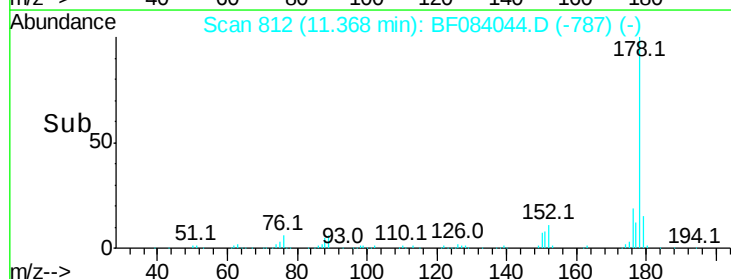


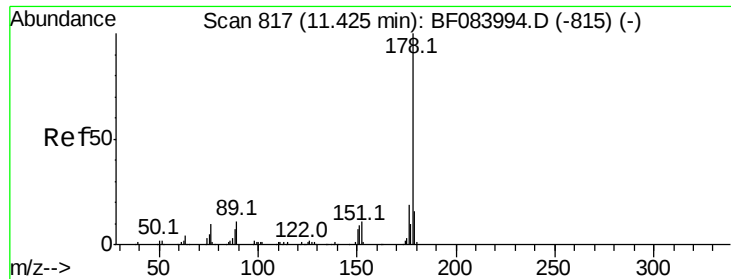
#70
Phenanthrene
Concen: 15.35 ng
RT: 11.37 min Scan# 812
Delta R.T. -0.01 min
Lab File: BF084044.D
Acq: 23 Dec 2015 20:14

Tgt Ion:178 Resp: 145560
Ion Ratio Lower Upper
178 100
176 18.8 15.3 22.9
179 15.6 12.0 18.0



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

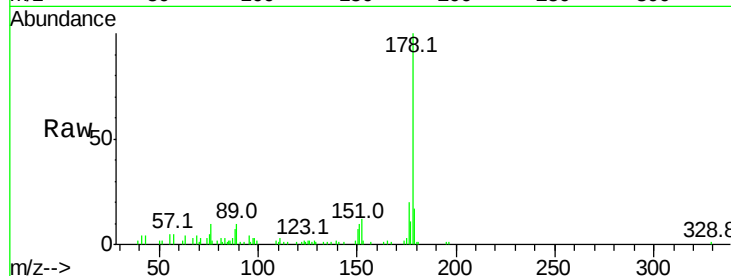




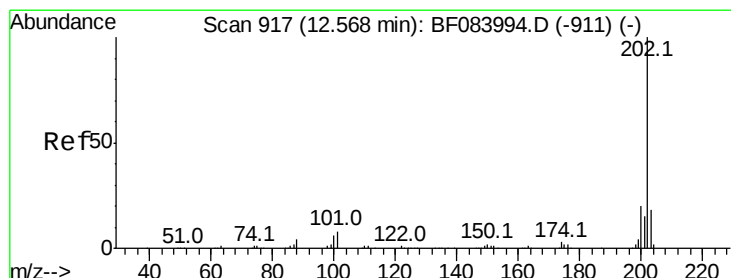
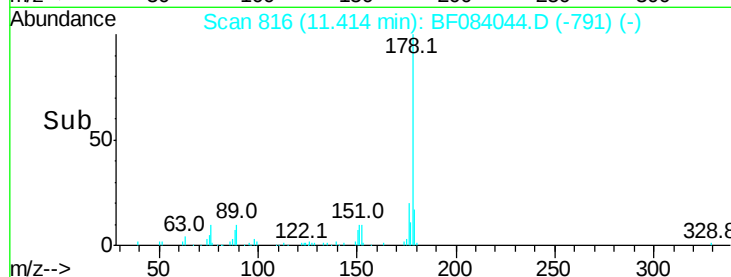
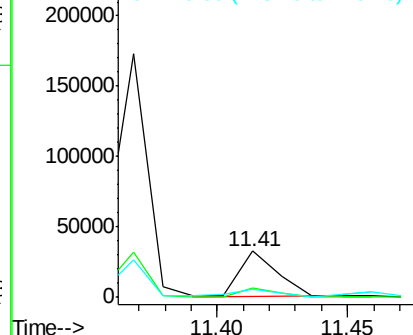
#71
 Anthracene
 Concen: 3.41 ng
 RT: 11.41 min Scan# 816
 Delta R.T. -0.01 min
 Lab File: BF084044.D
 Acq: 23 Dec 2015 20:14

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-121815

Tot Ion:178 Resp: 32839
 Ion Ratio Lower Upper
 178 100
 176 20.2 15.4 23.0
 179 16.7 12.5 18.7

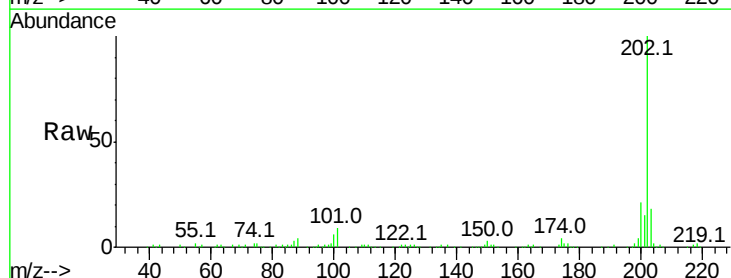


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

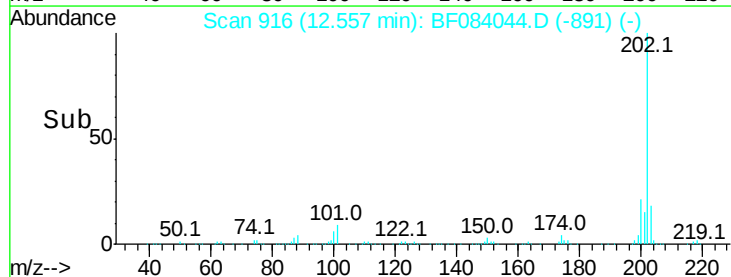
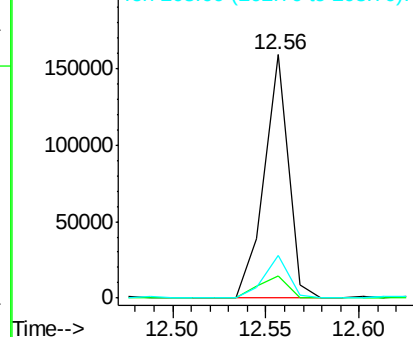


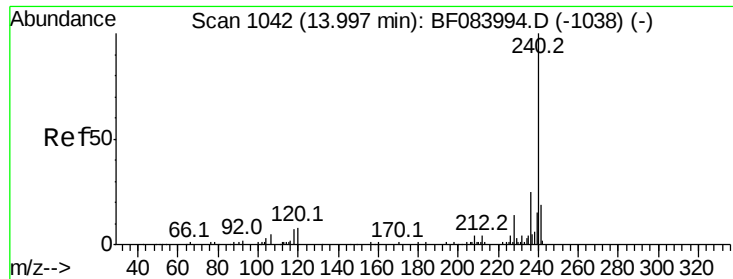
#74
 Fluoranthene
 Concen: 15.18 ng
 RT: 12.56 min Scan# 916
 Delta R.T. -0.01 min
 Lab File: BF084044.D
 Acq: 23 Dec 2015 20:14

Tgt Ion:202 Resp: 142783
 Ion Ratio Lower Upper
 202 100
 101 8.9 0.0 32.8
 203 17.6 0.0 37.9



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: 13.99 min Scan# 1041

Delta R.T. -0.01 min

Lab File: BF084044.D

Acq: 23 Dec 2015 20:14

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-121815

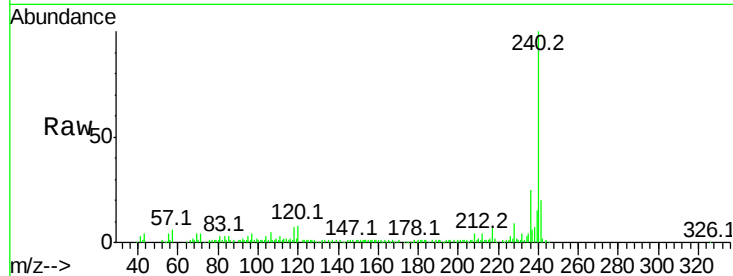
Tot Ion:240 Resp: 103641

Ion Ratio Lower Upper

240 100

120 7.9 9.5 14.3#

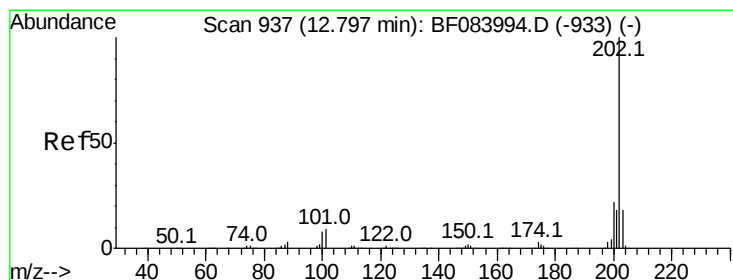
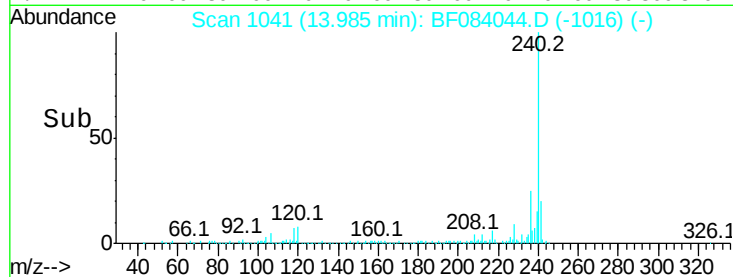
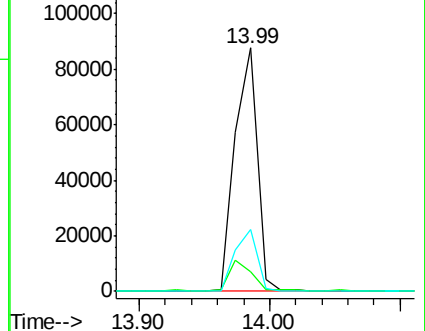
236 25.4 20.6 31.0



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: 18.81 ng

RT: 12.79 min Scan# 936

Delta R.T. -0.01 min

Lab File: BF084044.D

Acq: 23 Dec 2015 20:14

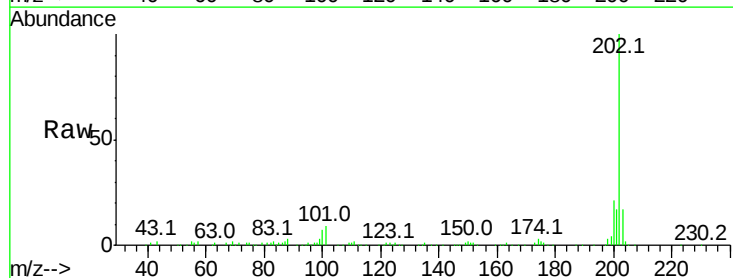
Tgt Ion:202 Resp: 132235

Ion Ratio Lower Upper

202 100

200 20.7 17.2 25.8

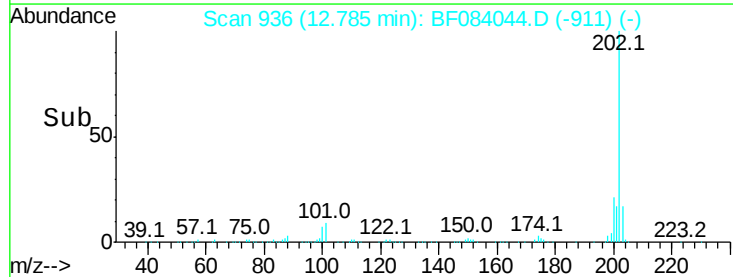
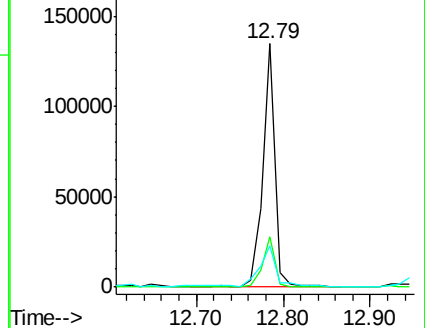
203 17.1 14.3 21.5

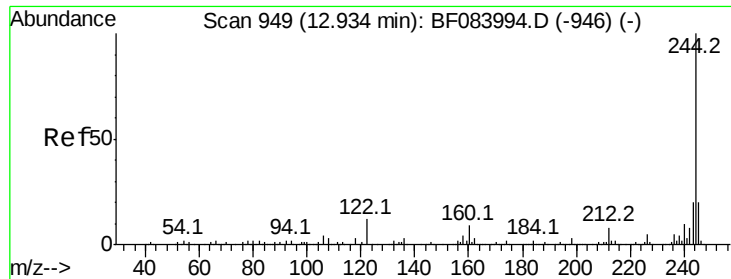


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

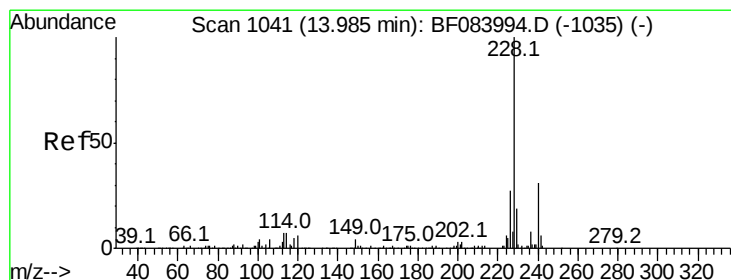
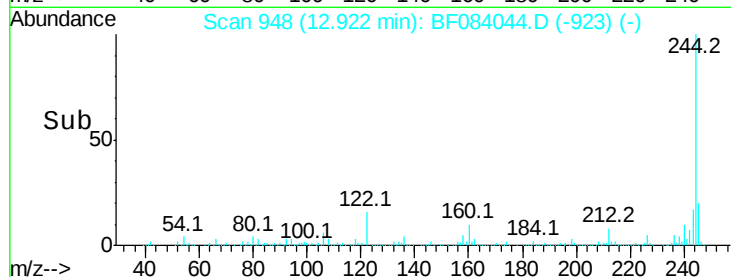
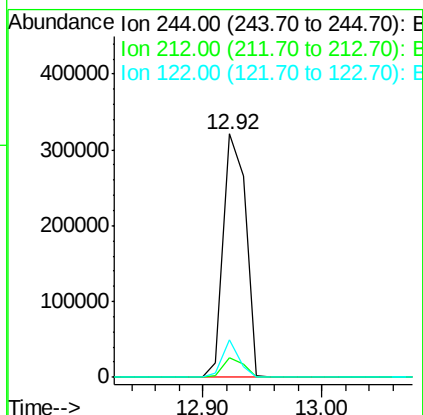
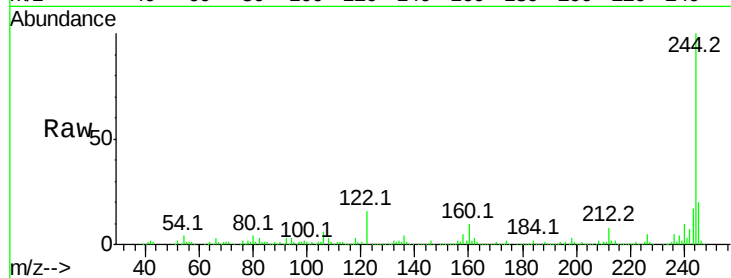




#78
 Terphenyl-d14
 Concen: 96.35 ng
 RT: 12.92 min Scan# 948
 Delta R.T. -0.01 min
 Lab File: BF084044.D
 Acq: 23 Dec 2015 20:14

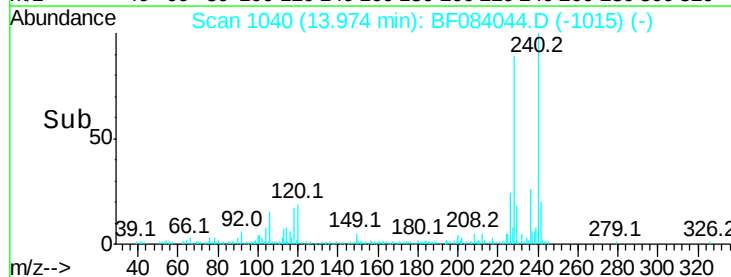
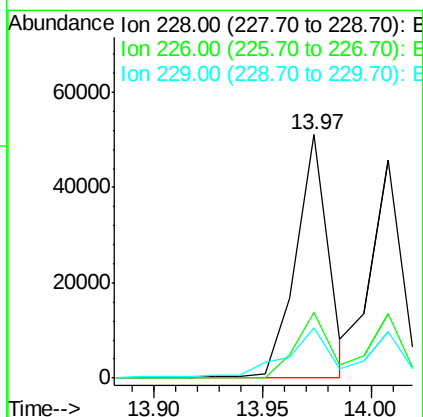
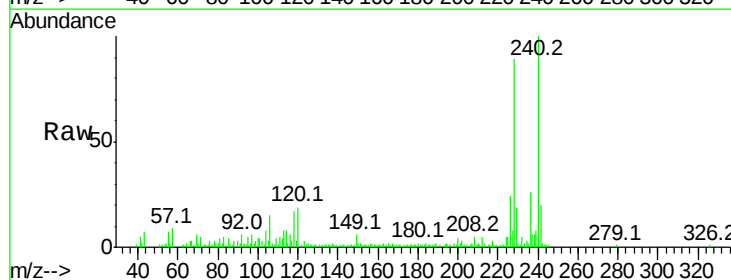
Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-121815

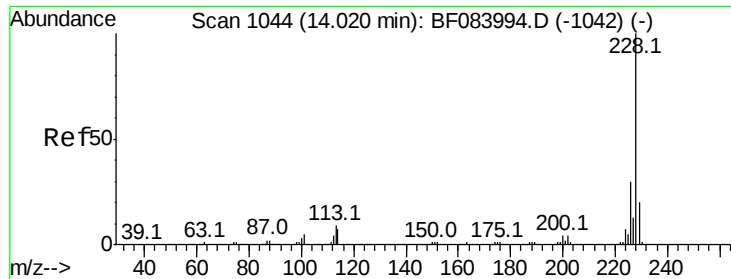
Tot Ion:244 Resp: 418742
 Ion Ratio Lower Upper
 244 100
 212 8.2 5.7 8.5
 122 15.7 7.4 11.0#



#80
 Benzo(a)anthracene
 Concen: 8.91 ng m
 RT: 13.97 min Scan# 1040
 Delta R.T. -0.01 min
 Lab File: BF084044.D
 Acq: 23 Dec 2015 20:14

Tgt Ion:228 Resp: 53225
 Ion Ratio Lower Upper
 228 100
 226 27.1 21.8 32.6
 229 20.9 15.8 23.8





#82

Chrysene

Concen: 8.15 ng/mL

RT: 14.01 min Scan# 1043

Delta R.T. -0.01 min

Lab File: BF084044.D

Acq: 23 Dec 2015 20:14

Instrument:

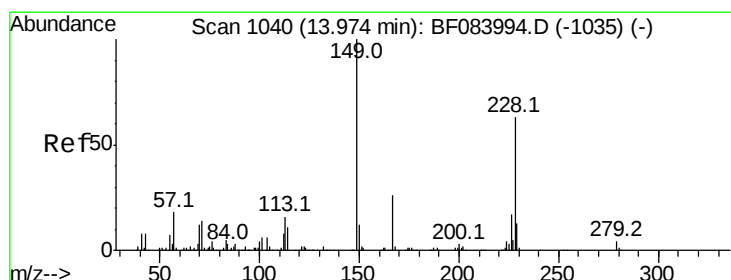
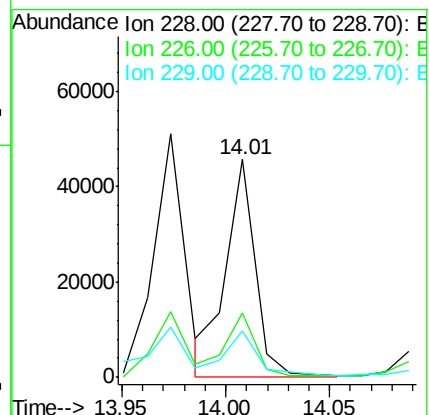
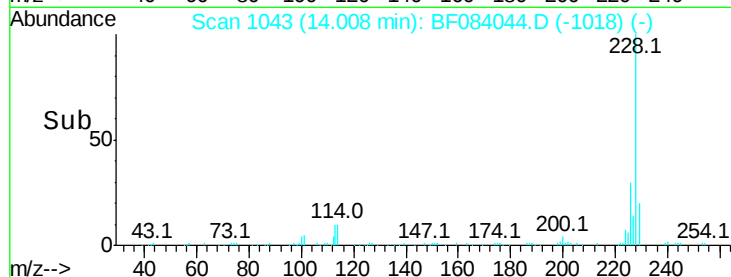
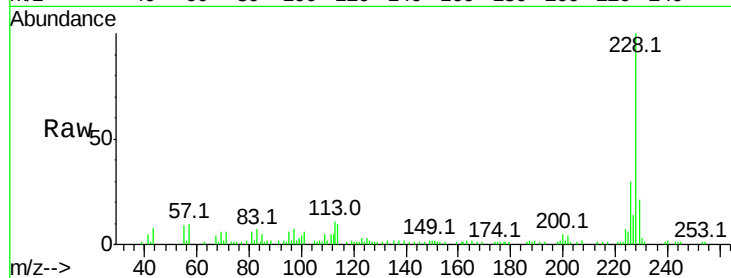
BNA_F

ClientSampleID:

LIBERTY-SF-121815

Tot Ion: 228 Resp: 45228

Ion	Ratio	Lower	Upper
228	100		
226	29.7	24.3	36.5
229	21.3	16.1	24.1



#83

Bis(2-ethylhexyl)phthalate

Concen: 4.66 ng/mL

RT: 13.96 min Scan# 1039

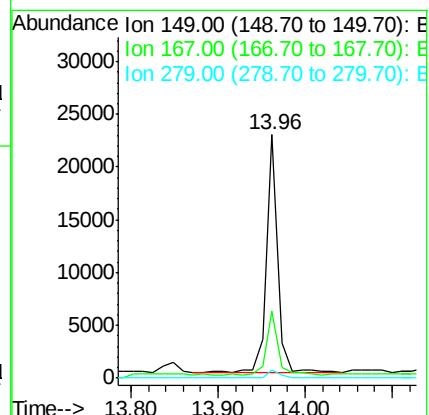
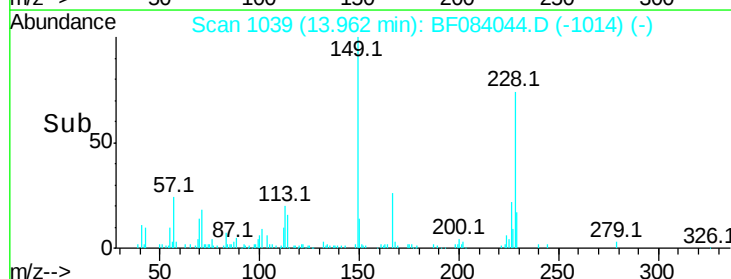
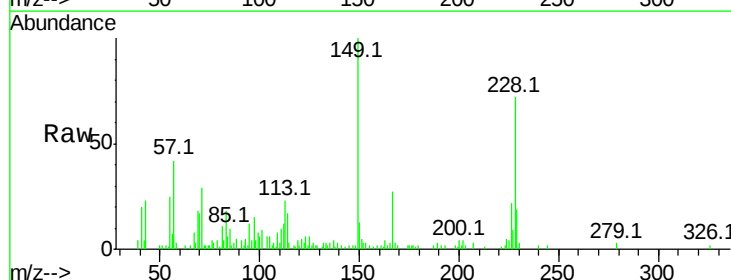
Delta R.T. -0.01 min

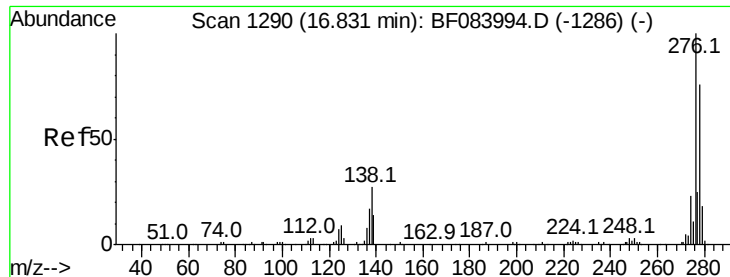
Lab File: BF084044.D

Acq: 23 Dec 2015 20:14

Tgt Ion: 149 Resp: 20894

Ion	Ratio	Lower	Upper
149	100		
167	27.3	19.7	29.5
279	3.3	1.8	2.6

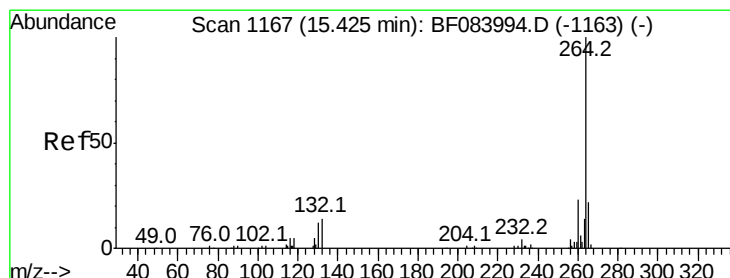
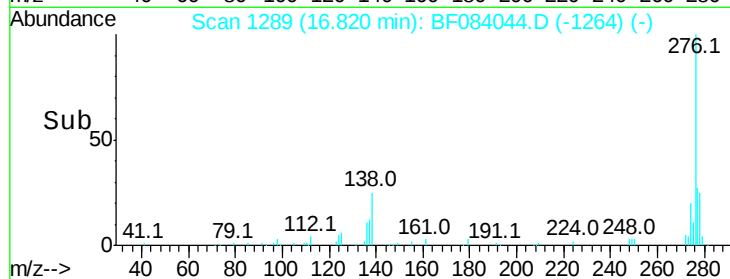
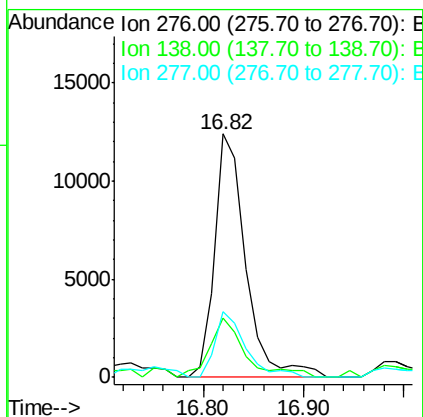
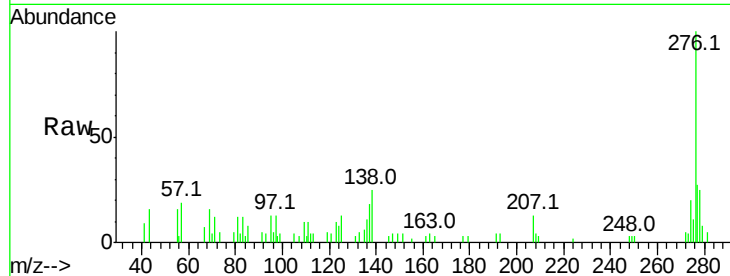




#85
Indeno(1,2,3-cd)pyrene
Concen: 5.80 ng
RT: 16.82 min Scan# 1289
Delta R.T. -0.01 min
Lab File: BF084044.D
Acq: 23 Dec 2015 20:14

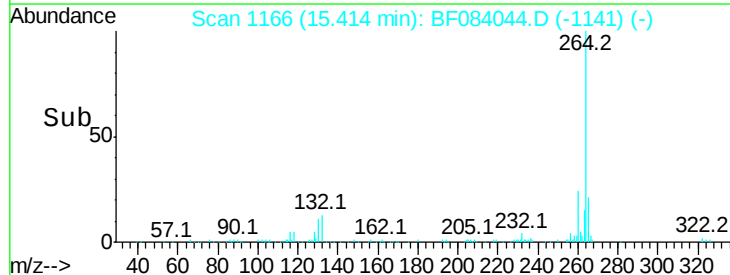
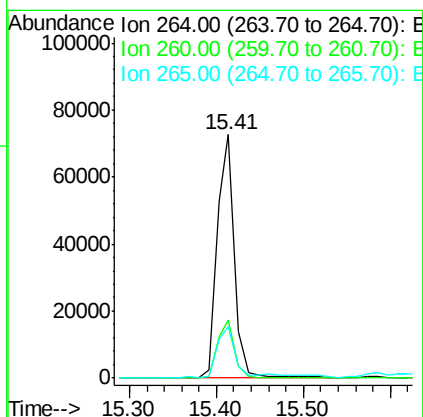
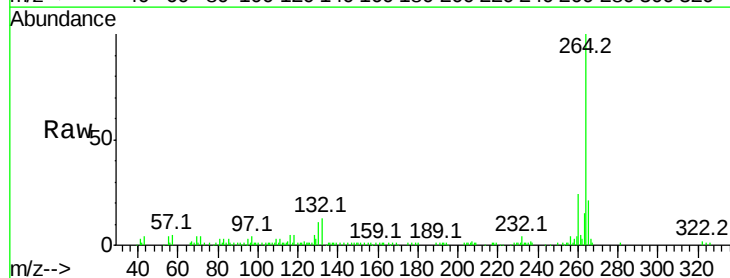
Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-121815

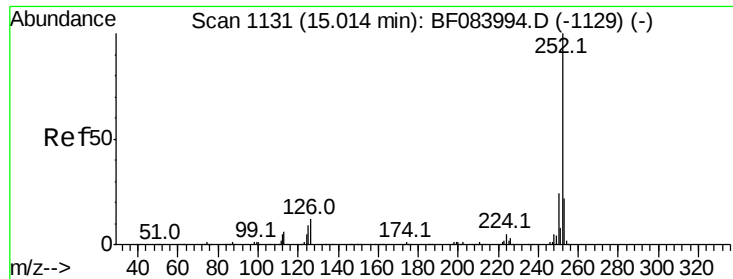
Tot Ion	Ratio	Lower	Upper
276	100		
138	27.9	20.6	30.8
277	26.7	20.1	30.1



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.41 min Scan# 1166
Delta R.T. -0.01 min
Lab File: BF084044.D
Acq: 23 Dec 2015 20:14

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.4	29.2
265	21.3	17.8	26.6





#87

Benzo(b)fluoranthene

Concen: 7.74 ng m

RT: 15.00 min Scan# 1130

Delta R.T. -0.01 min

Lab File: BF084044.D

Acq: 23 Dec 2015 20:14

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-121815

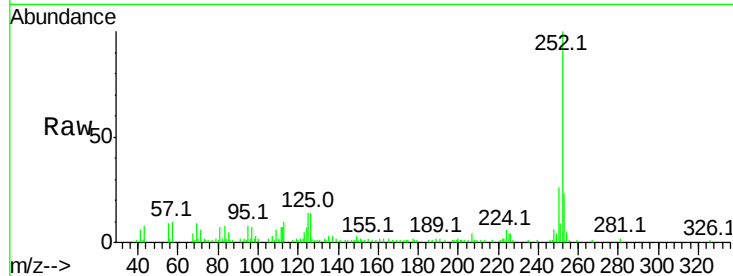
Tot Ion:252 Resp: 49037

Ion Ratio Lower Upper

252 100

253 22.9 17.3 25.9

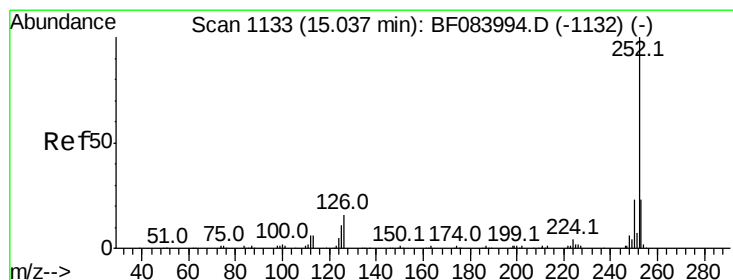
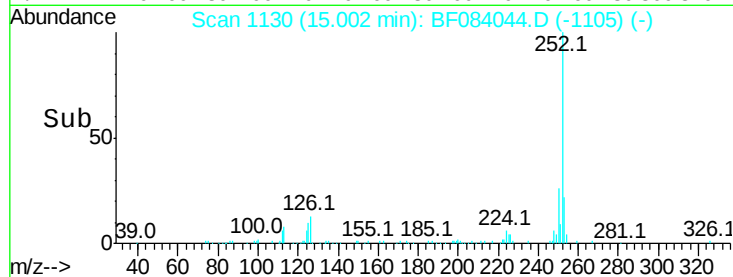
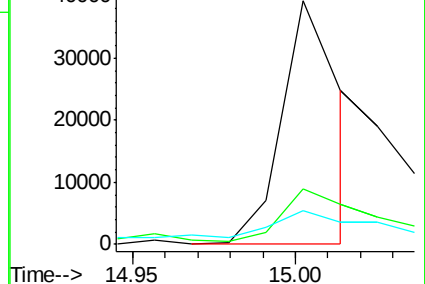
125 13.8 6.5 9.7#



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



#88

Benzo(k)fluoranthene

Concen: 3.81 ng m

RT: 15.01 min Scan# 1131

Delta R.T. -0.02 min

Lab File: BF084044.D

Acq: 23 Dec 2015 20:14

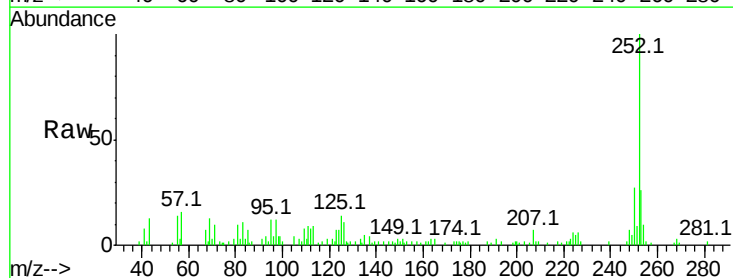
Tgt Ion:252 Resp: 22951

Ion Ratio Lower Upper

252 100

253 25.6 18.1 27.1

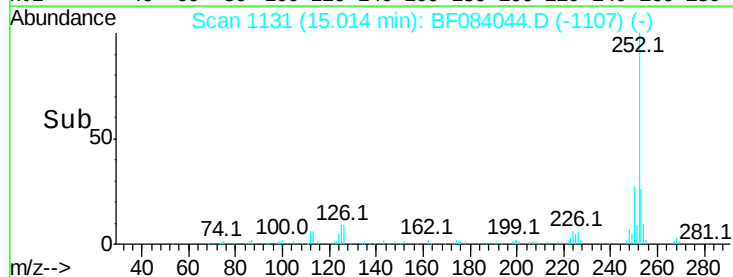
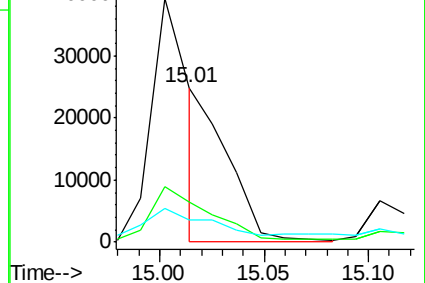
125 14.4 9.0 13.6#

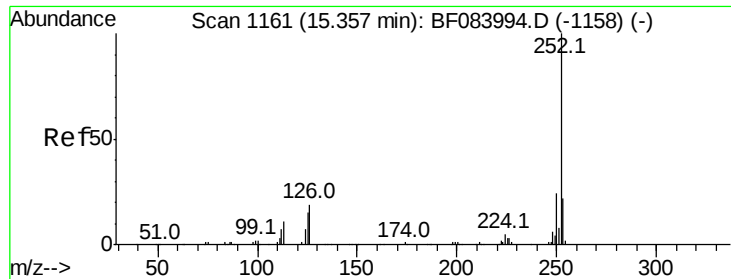


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

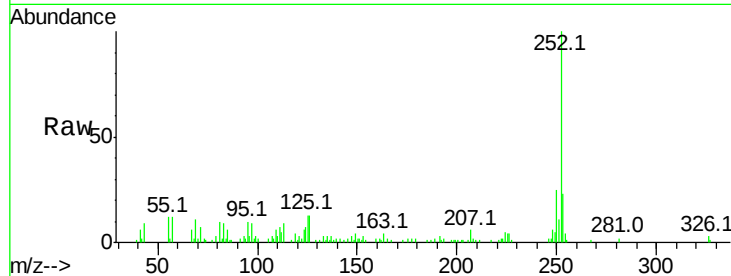




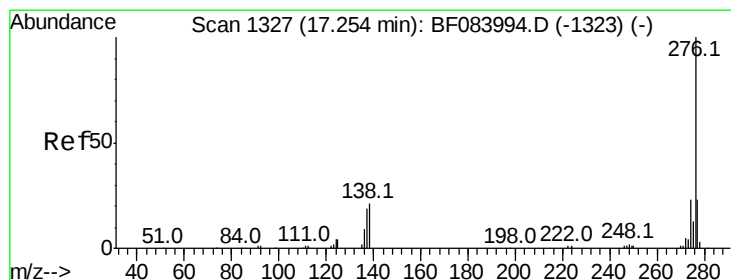
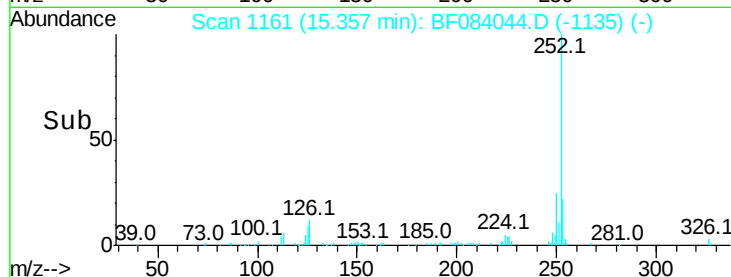
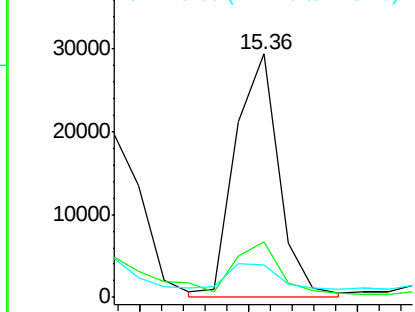
#89
Benzo(a)pyrene
Concen: 7.01 ng
RT: 15.36 min Scan# 1161
Delta R.T. -0.00 min
Lab File: BF084044.D
Acq: 23 Dec 2015 20:14

Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-121815

Tot Ion:252 Resp: 41164
Ion Ratio Lower Upper
252 100
253 22.8 17.3 25.9
125 13.4 7.0 10.4#

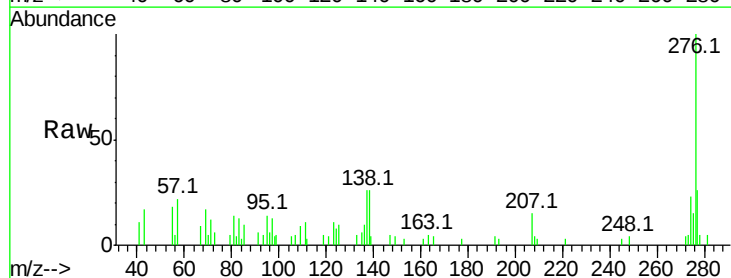


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91
Benzo(g,h,i)perylene
Concen: 5.06 ng
RT: 17.24 min Scan# 1326
Delta R.T. -0.01 min
Lab File: BF084044.D
Acq: 23 Dec 2015 20:14

Tgt Ion:276 Resp: 24880
Ion Ratio Lower Upper
276 100
277 25.7 18.8 28.2
138 26.0 17.8 26.6



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

