

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF122015\
 Data File : BF083989.D
 Acq On : 20 Dec 2015 9:36
 Operator : UM/SJ
 Sample : G4889-01
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-121815

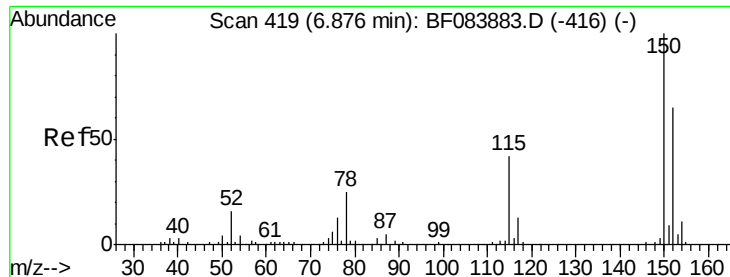
Quant Time: Dec 21 01:07:29 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 18 14:23:22 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	85782	20.00	ng	-0.02
21) Naphthalene-d8	8.13	136	348773	20.00	ng	-0.02
38) Acenaphthene-d10	9.88	164	149254	20.00	ng	-0.03
63) Phenanthrene-d10	11.37	188	258788	20.00	ng	-0.02
75) Chrysene-d12	14.01	240	166074	20.00	ng	-0.02
86) Perylene-d12	15.44	264	165822	20.00	ng	-0.03

System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	552094	100.72	ng	-0.01
7) Phenol-d6	6.50	99	668990	99.71	ng	-0.01
23) Nitrobenzene-d5	7.41	82	438060	71.68	ng	-0.02
41) 2,4,6-Tribromophenol	10.67	330	170781	103.86	ng	-0.03
44) 2-Fluorobiphenyl	9.21	172	772028	70.73	ng	-0.03
78) Terphenyl-d14	12.96	244	666140	94.48	ng	-0.02

Target Compounds						Qvalue
9) Benzaldehyde	6.62	77	14160	3.50	ng	86
19) n-Nitroso-di-n-propylamine	7.41	70	60459	15.46	ng	# 77
25) Isophorone	7.41	82	338817	29.47	ng	# 66
45) 1,1'-Biphenyl	9.31	154	3870	Below	Cal	97
46) 2-Chloronaphthalene	9.47	162	261	Below	Cal	# 27
49) Dimethylphthalate	9.61	163	169907	13.57	ng	# 90
56) 2,4-Dinitrotoluene	9.88	165	21009	6.00	ng	# 22
57) Fluorene	10.43	166	25116	Below	Cal	99
64) 4,6-Dinitro-2-methylphenol	10.67	198	253	4.08	ng	# 1
66) 4-Bromophenyl-phenylether	10.67	248	10723	3.39	ng	# 1
70) Phenanthrene	11.39	178	223075	14.27	ng	99
71) Anthracene	11.45	178	58587	3.88	ng	98
74) Fluoranthene	12.58	202	239429	15.35	ng	96
77) Pyrene	12.81	202	207319	19.79	ng	99
80) Benzo(a)anthracene	14.00	228	107996	10.58	ng	99
82) Chrysene	14.00	228	107996	10.95	ng	97
83) Bis(2-ethylhexyl)phthalate	13.99	149	33133	4.49	ng	# 97
85) Indeno(1,2,3-cd)pyrene	16.85	276	43347	5.88	ng	92
87) Benzo(b)fluoranthene	15.03	252	118893	9.83	ng	# 90
88) Benzo(k)fluoranthene	15.03	252	119664	12.00	ng	# 94
89) Benzo(a)pyrene	15.38	252	66575	6.67	ng	# 94
91) Benzo(g,h,i)perylene	17.28	276	39785	5.23	ng	96

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.85 min Scan# 417

Delta R.T. -0.02 min

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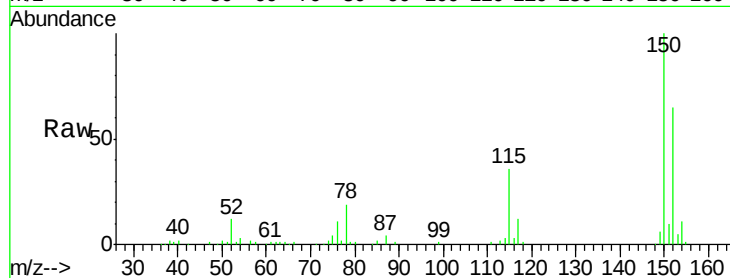
Tgt Ion:152 Resp: 85782

Ion Ratio Lower Upper

152 100

150 152.7 123.0 184.4

115 55.0 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

150000

100000

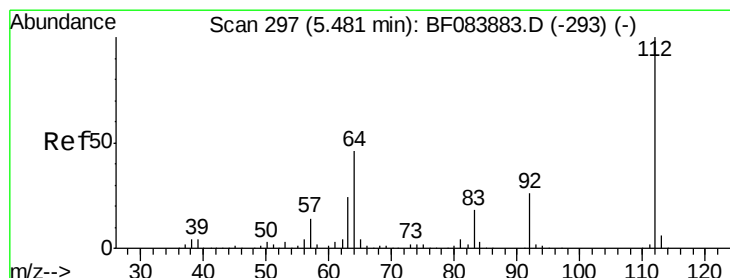
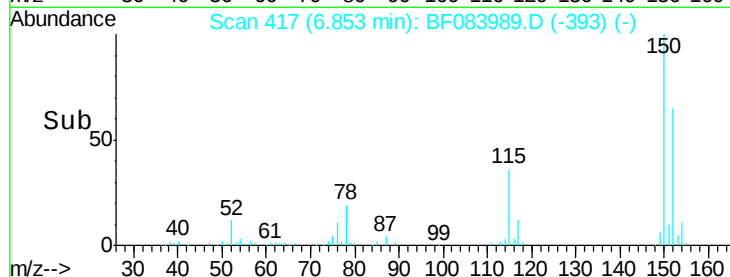
50000

0

6.80 6.85 6.90

6.85

Time-->



#5

2-Fluorophenol

Concen: 100.72 ng

RT: 5.47 min Scan# 296

Delta R.T. -0.01 min

Lab File: BF083989.D

Acq: 20 Dec 2015 9:36

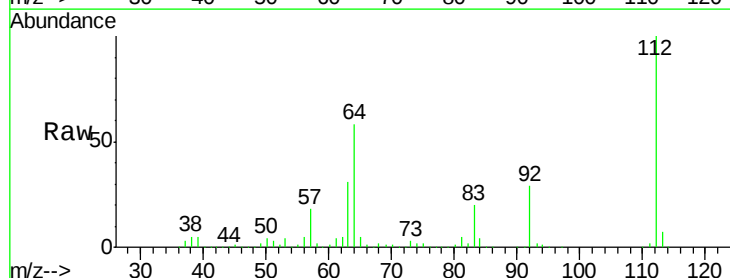
Tgt Ion:112 Resp: 552094

Ion Ratio Lower Upper

112 100

64 57.8 36.6 55.0#

63 31.1 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

600000

400000

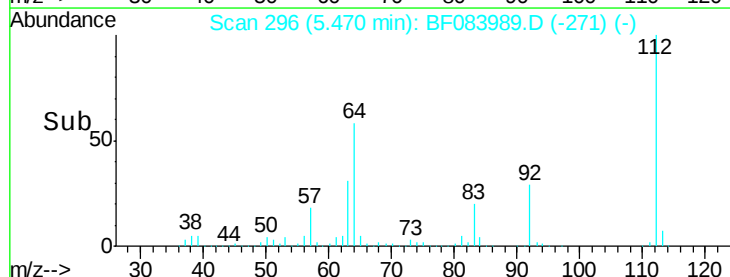
200000

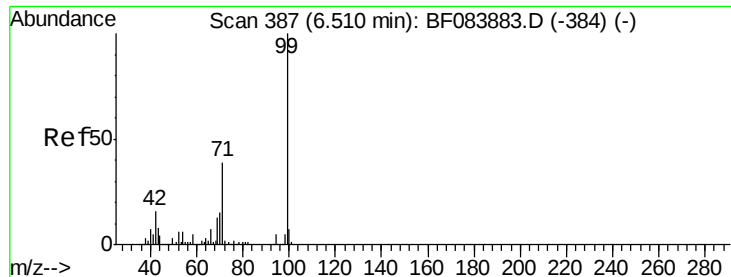
0

5.40 5.45 5.50 5.55 5.60 5.65 5.70

5.47

Time-->





#7

Phenol-d6

Concen: 99.71 ng

RT: 6.50 min Scan# 386

Delta R.T. -0.01 min

Lab File: BF083989.D

Acq: 20 Dec 2015 9:36

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-121815

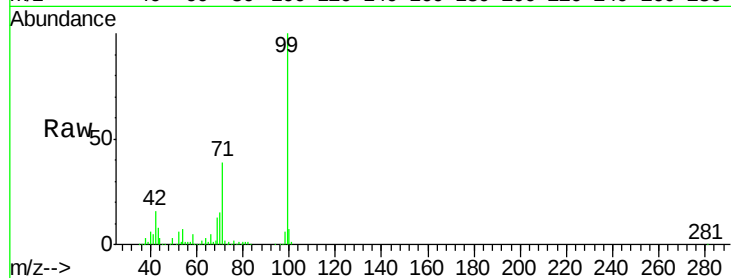
Tgt Ion: 99 Resp: 668990

Ion Ratio Lower Upper

99 100

42 16.3 12.8 19.2

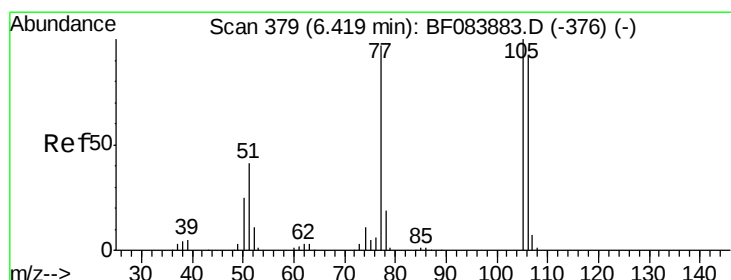
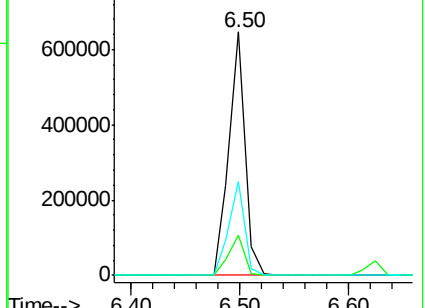
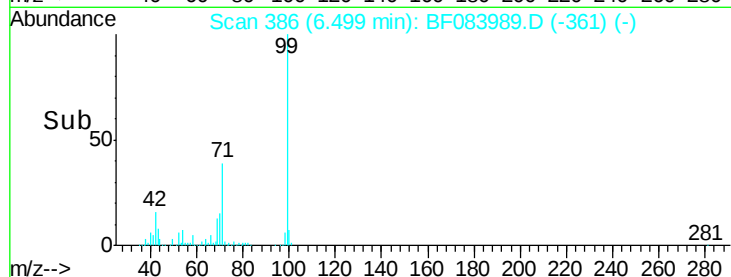
71 38.5 30.9 46.3



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#9

Benzaldehyde

Concen: 3.50 ng

RT: 6.62 min Scan# 397

Delta R.T. 0.21 min

Lab File: BF083989.D

Acq: 20 Dec 2015 9:36

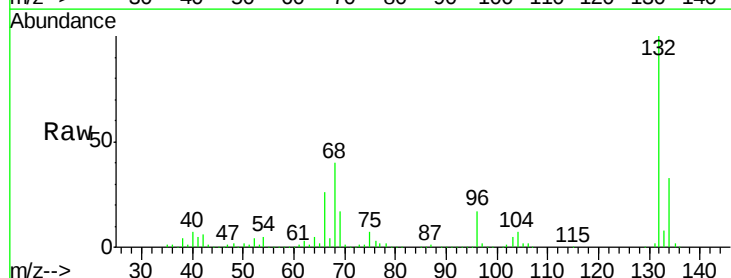
Tgt Ion: 77 Resp: 14160

Ion Ratio Lower Upper

77 100

105 84.6 83.0 123.0

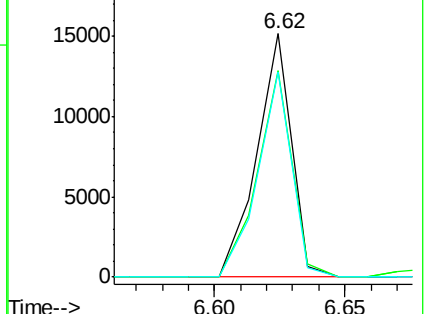
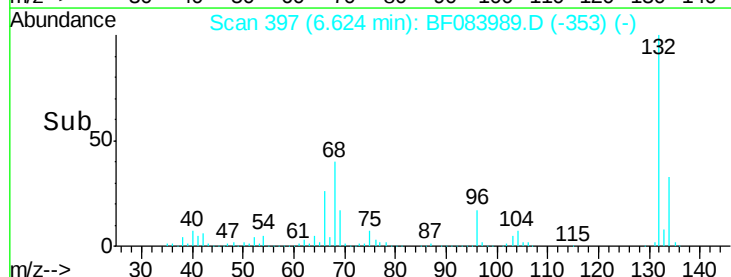
106 84.5 74.6 114.6

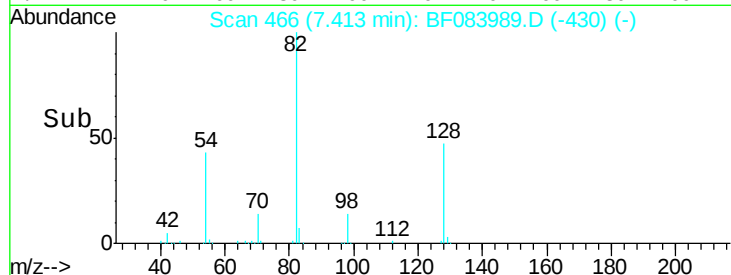
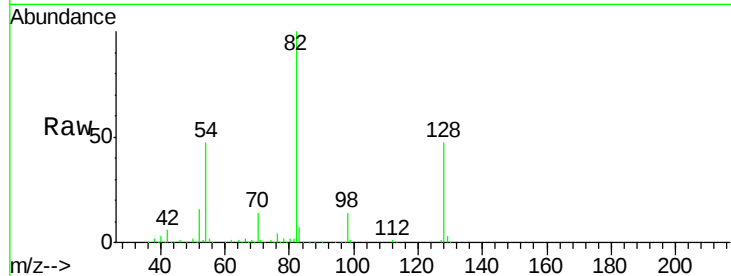
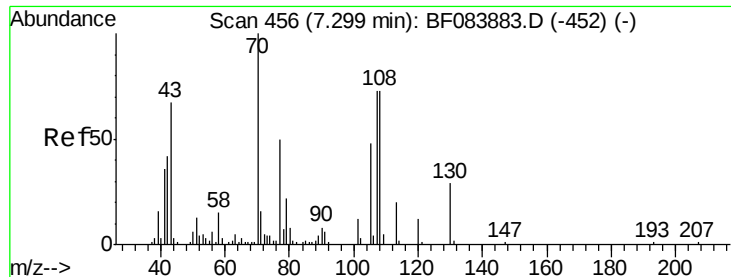


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

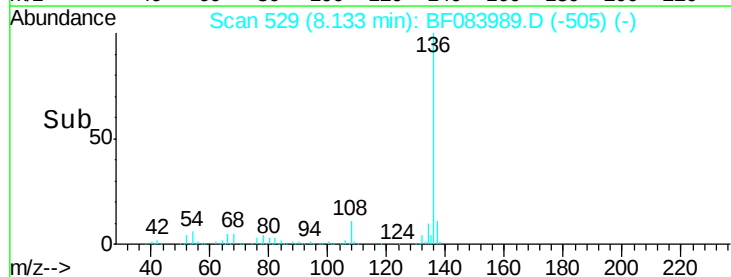
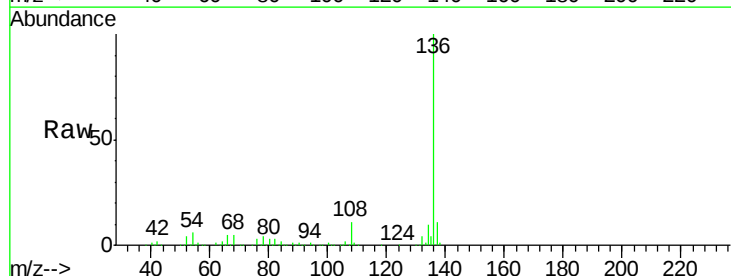
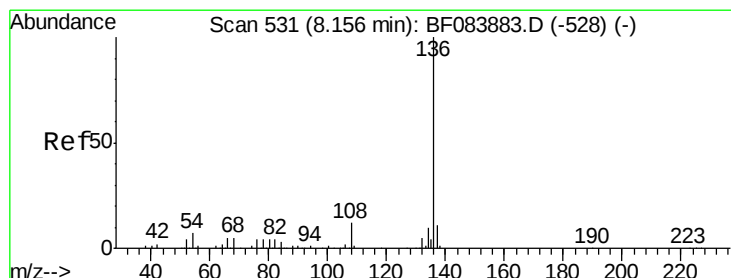
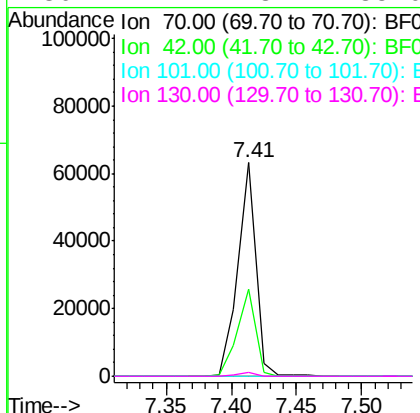




#19
n-Nitroso-di-n-propylamine
Concen: 15.46 ng
RT: 7.41 min Scan# 466
Delta R.T. 0.11 min
Lab File: BF083989.D
Acq: 20 Dec 2015 9:36

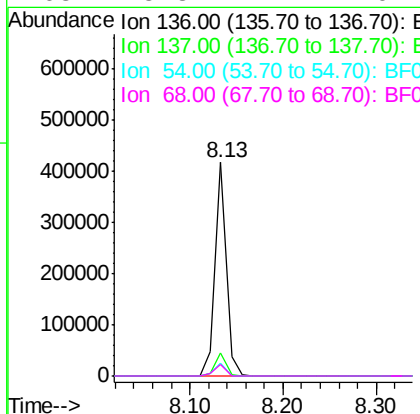
Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-121815

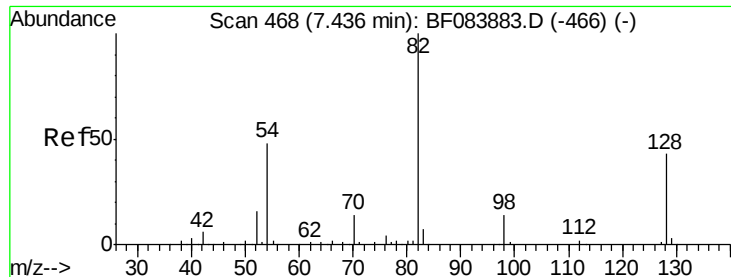
Tgt Ion: 70 Resp: 60459
Ion Ratio Lower Upper
70 100
42 40.9 33.3 49.9
101 0.0 9.3 13.9#
130 2.1 23.4 35.0#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.13 min Scan# 529
Delta R.T. -0.02 min
Lab File: BF083989.D
Acq: 20 Dec 2015 9:36

Tgt Ion: 136 Resp: 348773
Ion Ratio Lower Upper
136 100
137 10.9 8.7 13.1
54 6.2 5.8 8.8
68 5.3 4.2 6.2

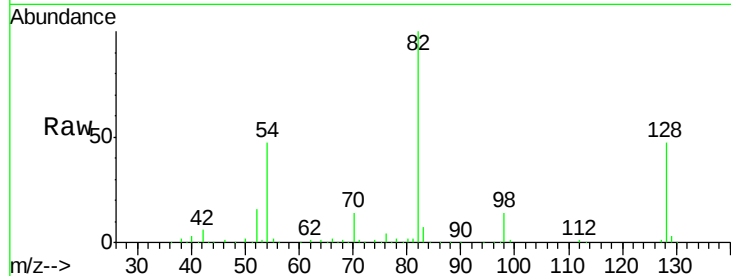




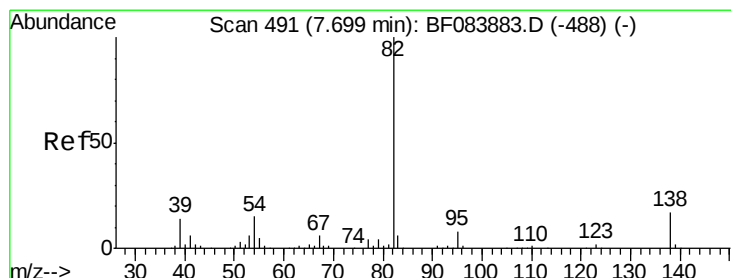
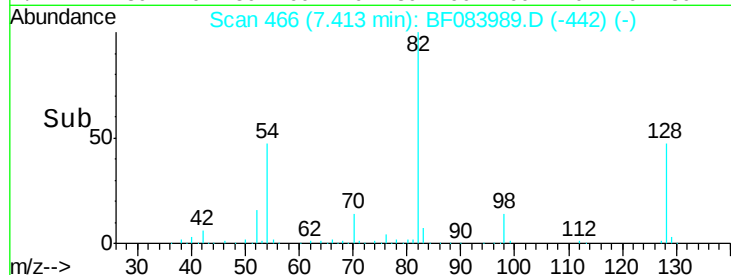
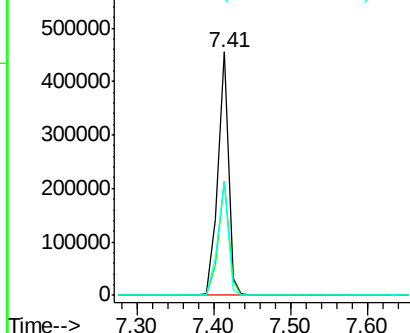
#23
 Nitrobenzene-d5
 Concen: 71.68 ng
 RT: 7.41 min Scan# 466
 Delta R.T. -0.02 min
 Lab File: BF083989.D
 Acq: 20 Dec 2015 9:36

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-121815

Tgt Ion	Ratio	Lower	Upper
82	100		
128	46.9	34.6	51.8
54	47.0	38.4	57.6

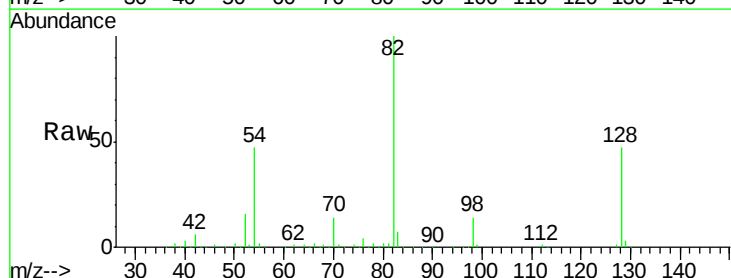


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): BF0
 Ion 54.00 (53.70 to 54.70): BF0

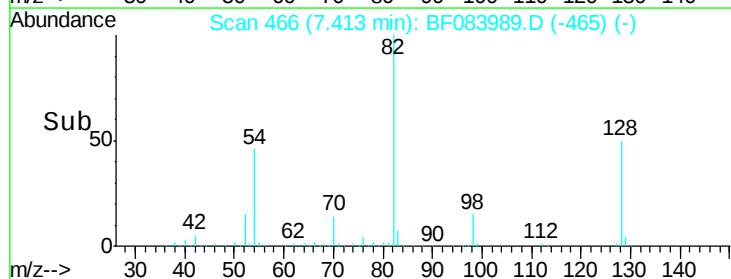
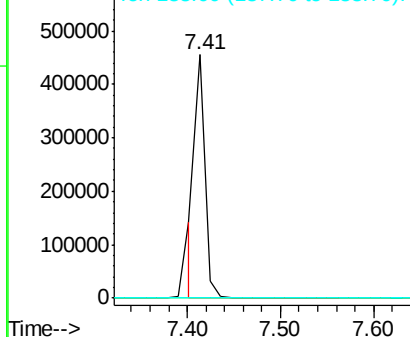


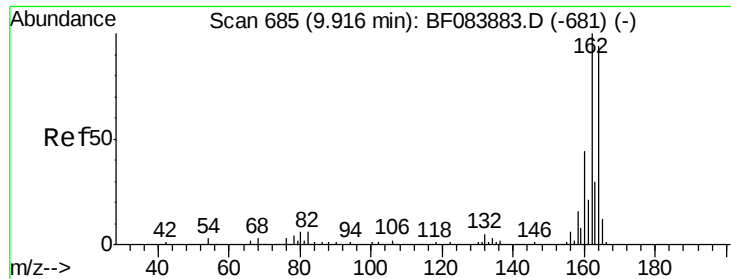
#25
 Isophorone
 Concen: 29.47 ng
 RT: 7.41 min Scan# 466
 Delta R.T. -0.29 min
 Lab File: BF083989.D
 Acq: 20 Dec 2015 9:36

Tgt Ion	Ratio	Lower	Upper
82	100		
95	0.0	6.6	10.0#
138	0.0	13.6	20.4#



Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 95.00 (94.70 to 95.70): BF0
 Ion 138.00 (137.70 to 138.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.88 min Scan# 682

Delta R.T. -0.03 min

Lab File: BF083989.D

Acq: 20 Dec 2015 9:36

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-121815

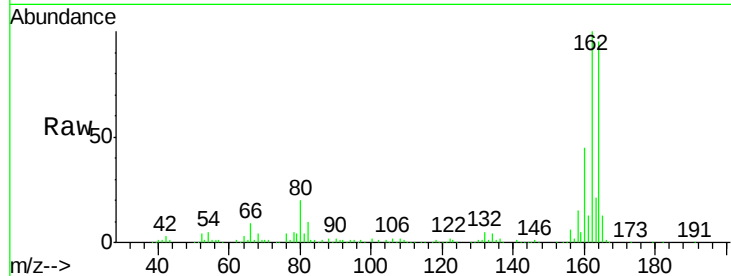
Tgt Ion:164 Resp: 149254

Ion Ratio Lower Upper

164 100

162 105.3 85.1 127.7

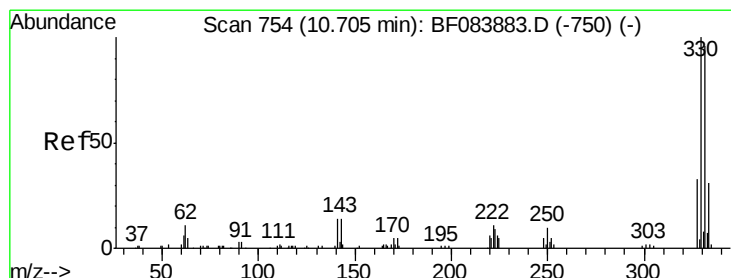
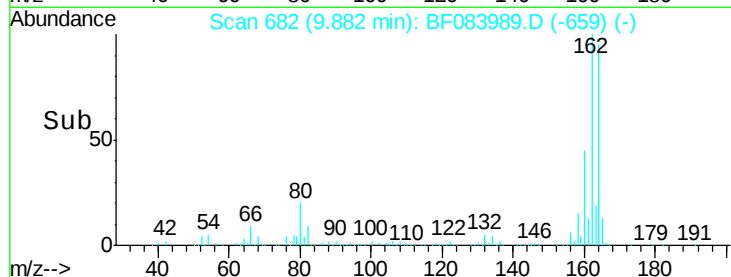
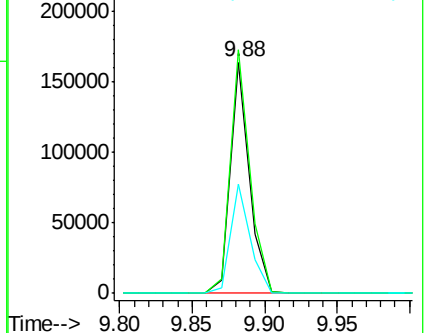
160 47.0 37.5 56.3



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: 103.86 ng

RT: 10.67 min Scan# 751

Delta R.T. -0.03 min

Lab File: BF083989.D

Acq: 20 Dec 2015 9:36

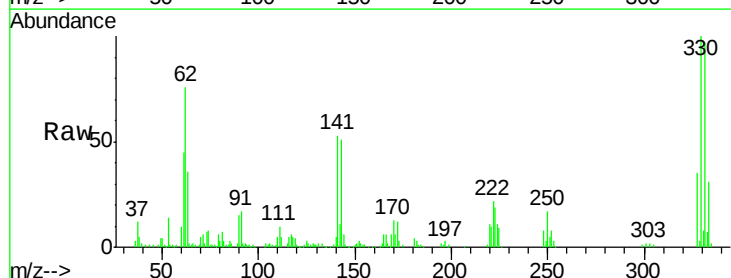
Tgt Ion:330 Resp: 170781

Ion Ratio Lower Upper

330 100

332 97.5 76.6 114.8

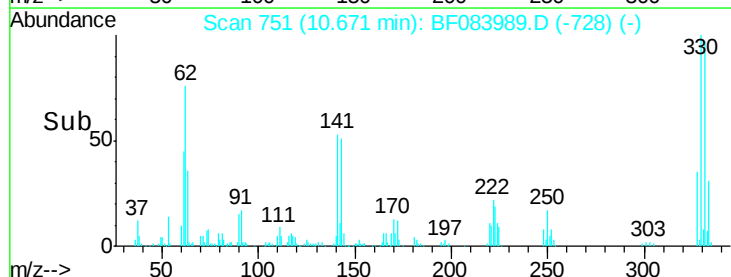
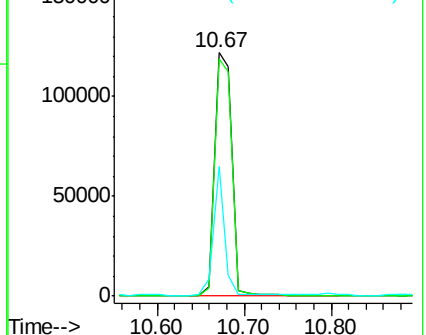
141 33.8 27.8 41.6

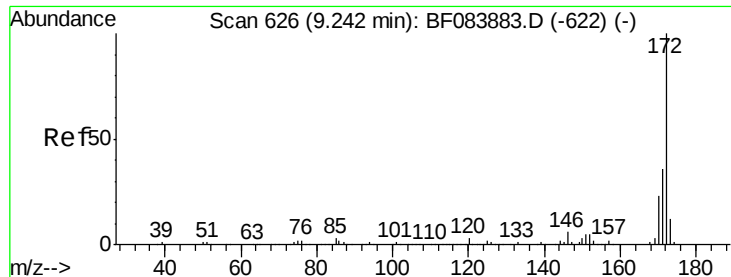


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

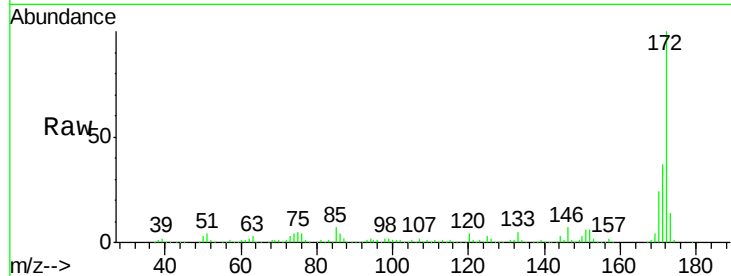




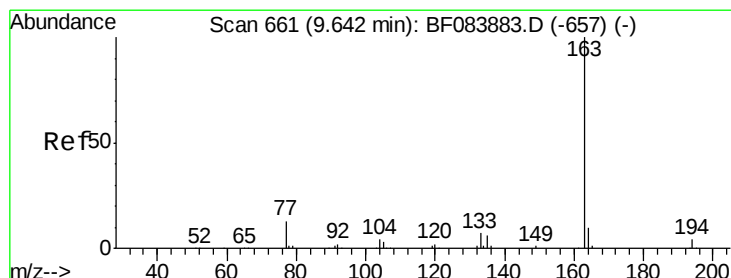
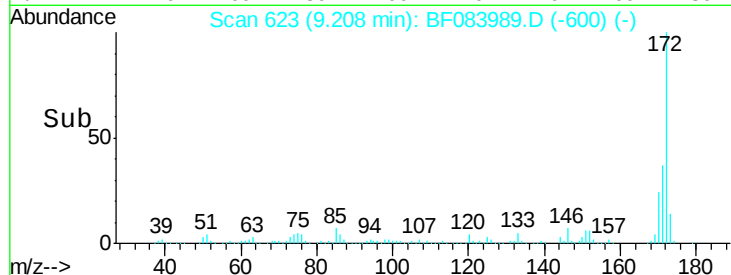
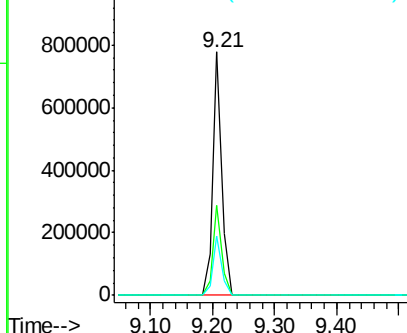
#44
 2-Fluorobiphenyl
 Concen: 70.73 ng
 RT: 9.21 min Scan# 623
 Delta R.T. -0.03 min
 Lab File: BF083989.D
 Acq: 20 Dec 2015 9:36

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Tgt Ion:172 Resp: 772028
 Ion Ratio Lower Upper
 172 100
 171 36.8 28.9 43.3
 170 24.2 18.6 27.8

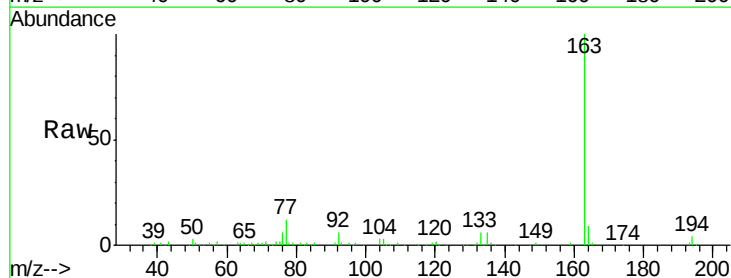


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

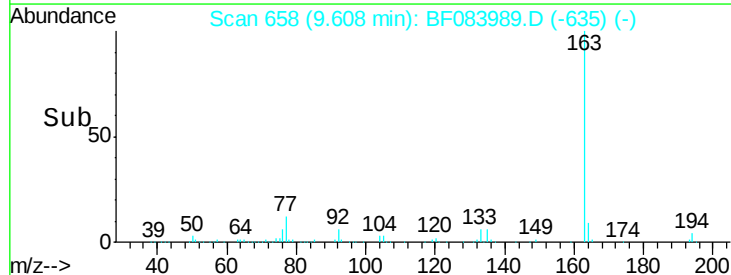
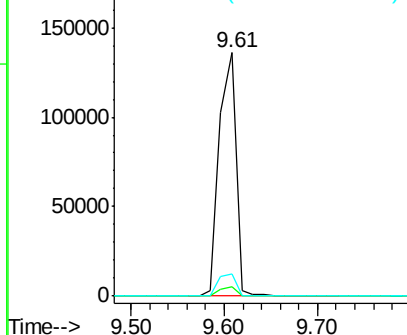


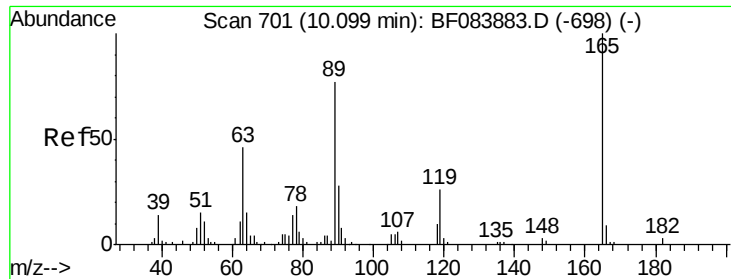
#49
 Dimethylphthalate
 Concen: 13.57 ng
 RT: 9.61 min Scan# 658
 Delta R.T. -0.03 min
 Lab File: BF083989.D
 Acq: 20 Dec 2015 9:36

Tgt Ion:163 Resp: 169907
 Ion Ratio Lower Upper
 163 100
 194 3.7 8.0 12.0#
 164 9.1 8.0 12.0



Abundance Ion 163.00 (162.70 to 163.70): E
 Ion 194.00 (193.70 to 194.70): E
 Ion 164.00 (163.70 to 164.70): E

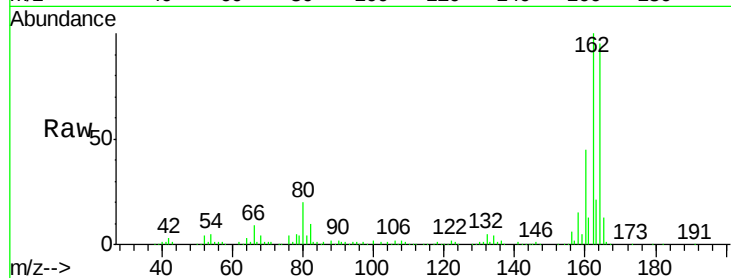




#56
2,4-Dinitrotoluene
Concen: 6.00 ng
RT: 9.88 min Scan# 682
Delta R.T. -0.22 min
Lab File: BF083989.D
Acq: 20 Dec 2015 9:36

Instrument :
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ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.8	36.7	55.1#
89	1.8	61.9	92.9#
182	1.4	2.0	3.0#

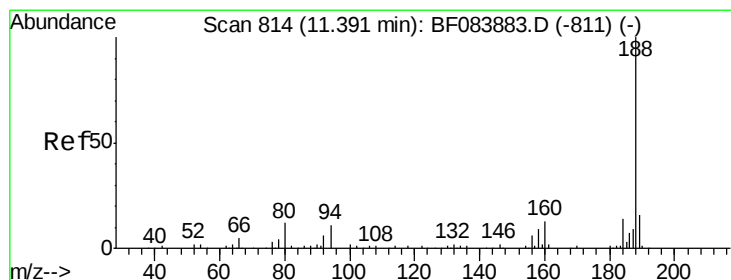
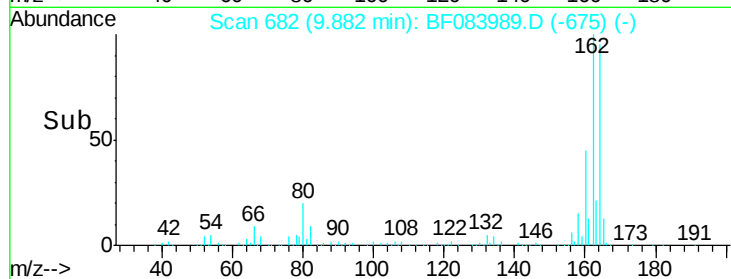
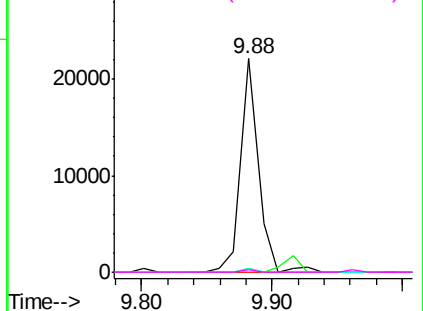


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

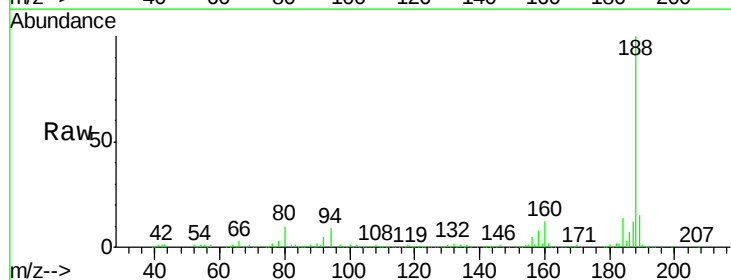
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.37 min Scan# 812
Delta R.T. -0.02 min
Lab File: BF083989.D
Acq: 20 Dec 2015 9:36

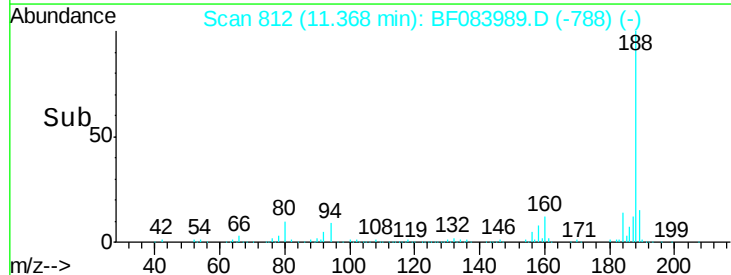
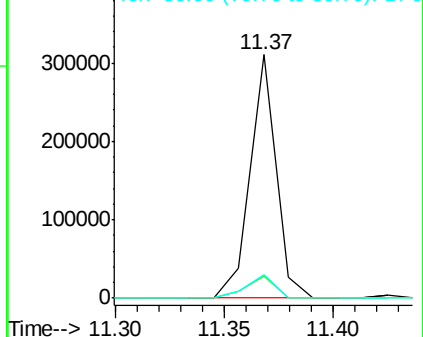
Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.1	9.0	13.4
80	9.8	9.6	14.4

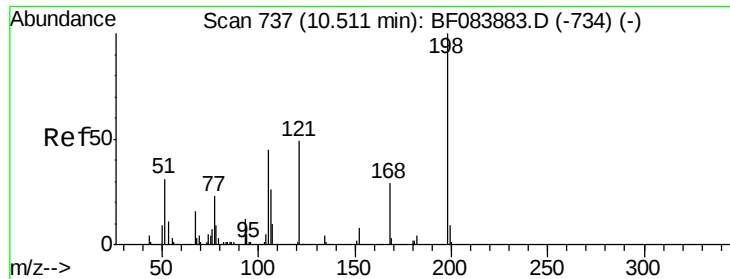


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#64

4,6-Dinitro-2-methylphenol

Concen: 4.08 ng

RT: 10.67 min Scan# 751

Delta R.T. 0.16 min

Lab File: BF083989.D

Acq: 20 Dec 2015 9:36

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-121815

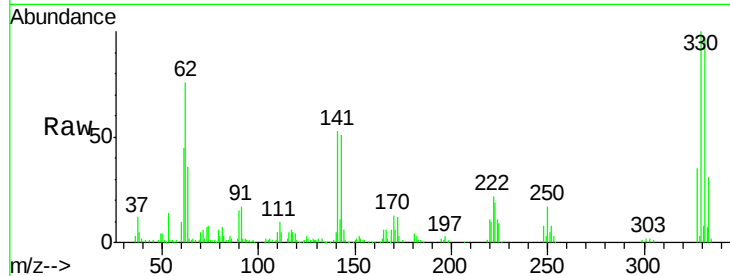
Tgt Ion:198 Resp: 253

Ion Ratio Lower Upper

198 100

51 240.7 18.9 58.9#

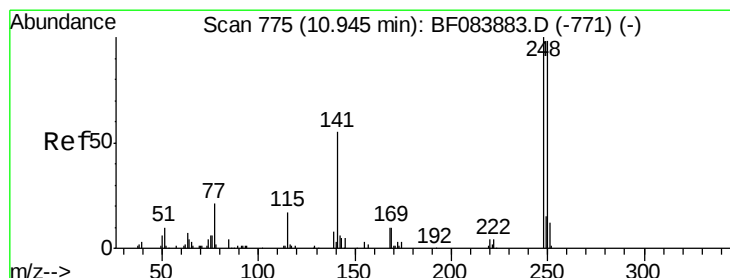
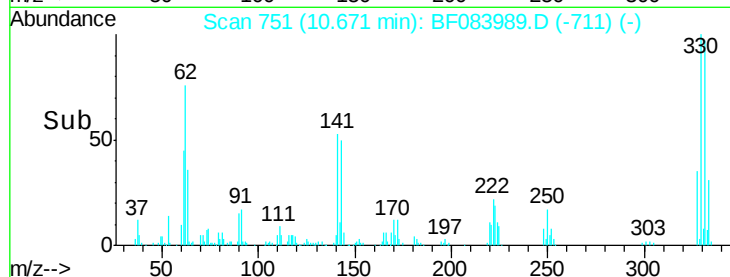
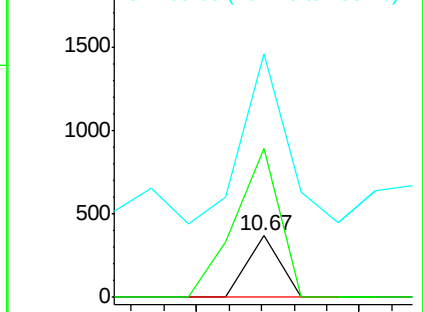
105 394.9 26.4 66.4#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



#66

4-Bromophenyl-phenylether

Concen: 3.39 ng

RT: 10.67 min Scan# 751

Delta R.T. -0.27 min

Lab File: BF083989.D

Acq: 20 Dec 2015 9:36

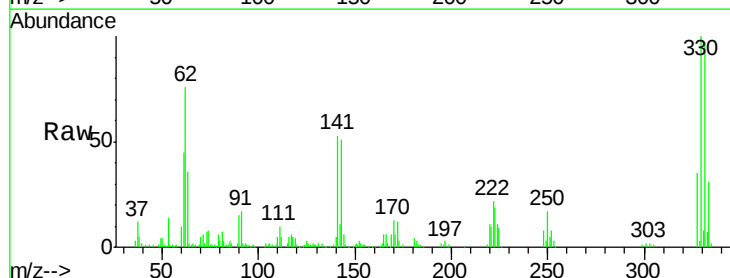
Tgt Ion:248 Resp: 10723

Ion Ratio Lower Upper

248 100

250 202.2 78.4 117.6#

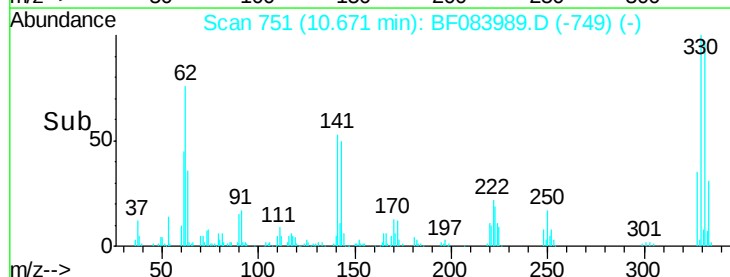
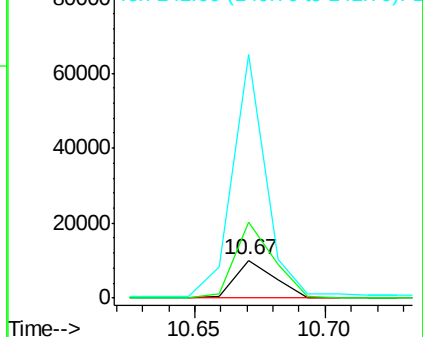
141 643.6 44.0 66.0#

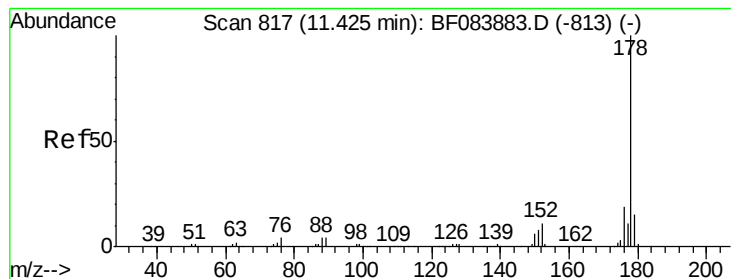


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 14.27 ng

RT: 11.39 min Scan# 814

Delta R.T. -0.03 min

Lab File: BF083989.D

Acq: 20 Dec 2015 9:36

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-121815

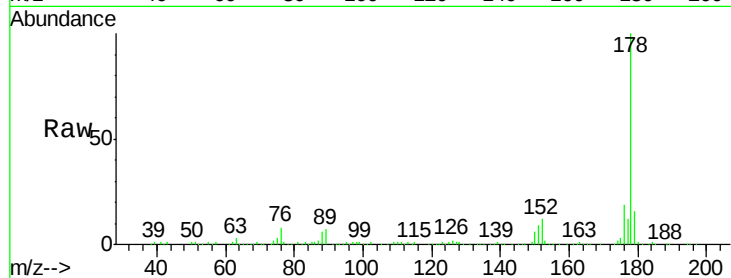
Tgt Ion:178 Resp: 223075

Ion Ratio Lower Upper

178 100

176 19.5 15.3 22.9

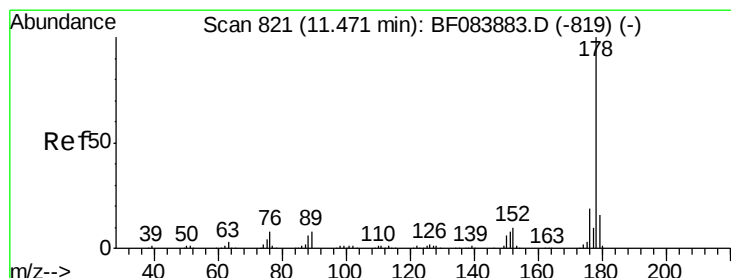
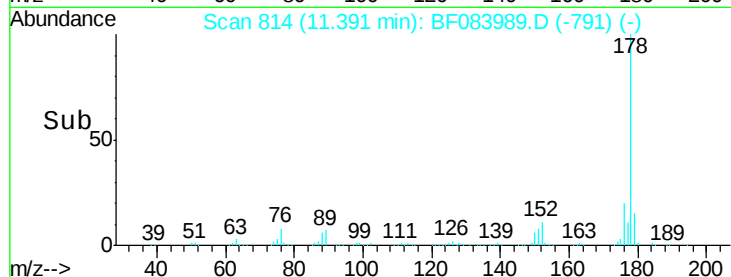
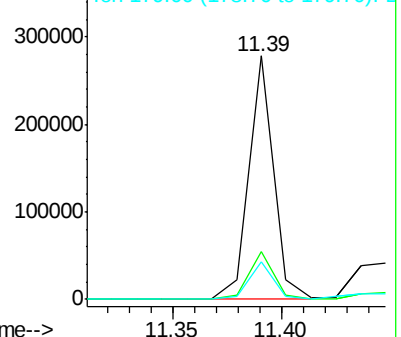
179 15.7 12.0 18.0



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: 3.88 ng

RT: 11.45 min Scan# 819

Delta R.T. -0.02 min

Lab File: BF083989.D

Acq: 20 Dec 2015 9:36

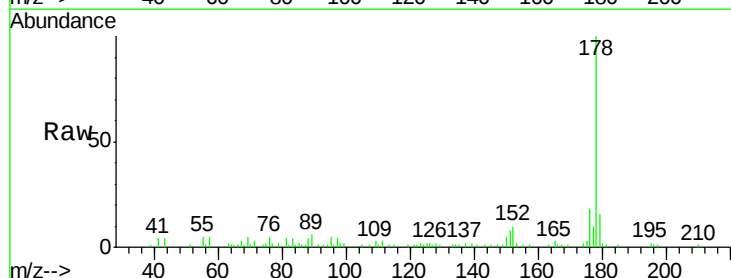
Tgt Ion:178 Resp: 58587

Ion Ratio Lower Upper

178 100

176 18.0 15.4 23.0

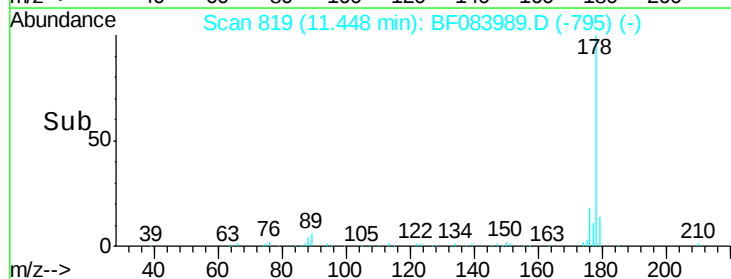
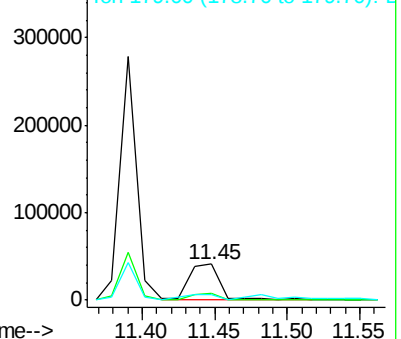
179 15.9 12.5 18.7

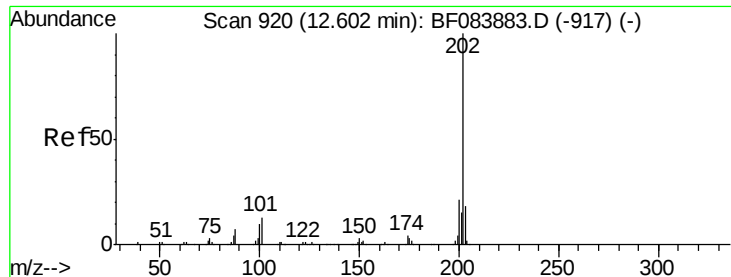


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 15.35 ng

RT: 12.58 min Scan# 918

Delta R.T. -0.02 min

Lab File: BF083989.D

Acq: 20 Dec 2015 9:36

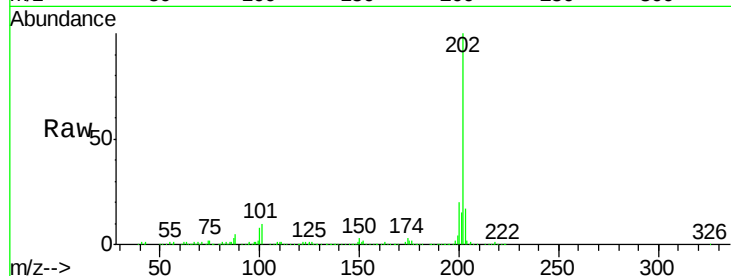
Instrument :

BNA_F

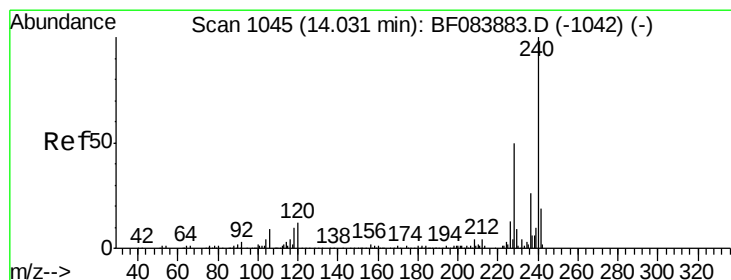
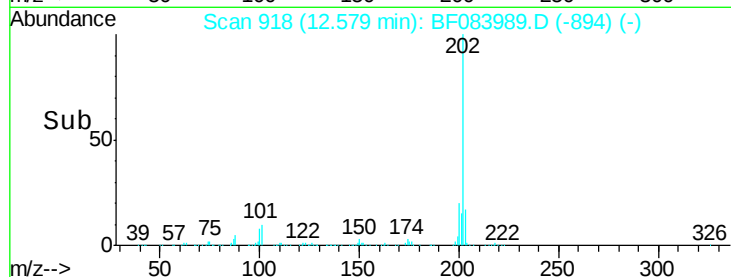
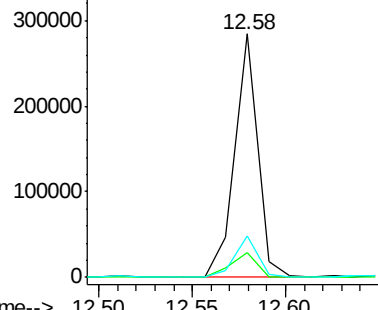
ClientSampleId :

LIBERTY-SF-121815

Tgt Ion:	202	Resp:	239429
Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	32.8
203	17.3	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

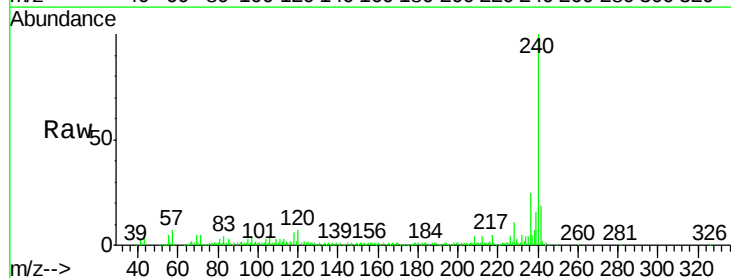
RT: 14.01 min Scan# 1043

Delta R.T. -0.02 min

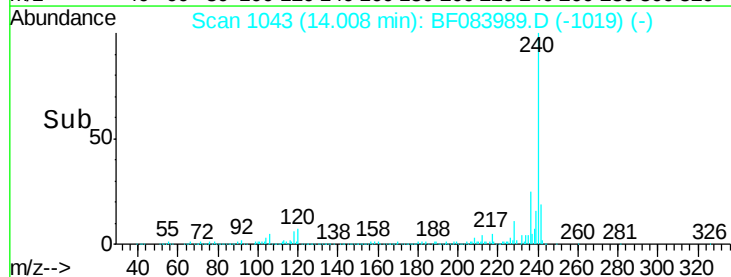
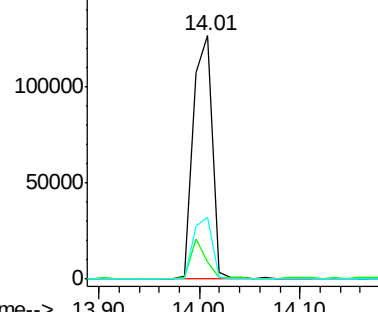
Lab File: BF083989.D

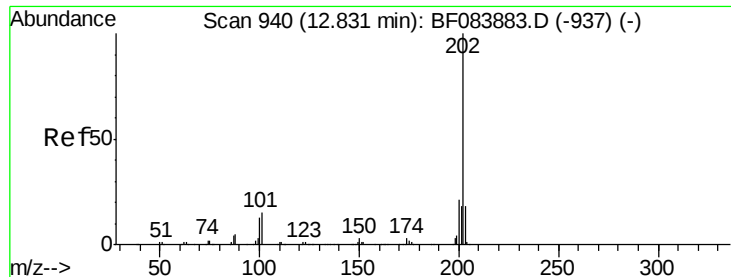
Acq: 20 Dec 2015 9:36

Tgt Ion:	240	Resp:	166074
Ion	Ratio	Lower	Upper
240	100		
120	7.2	9.5	14.3#
236	25.2	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: 19.79 ng

RT: 12.81 min Scan# 938

Delta R.T. -0.02 min

Lab File: BF083989.D

Acq: 20 Dec 2015 9:36

Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-121815

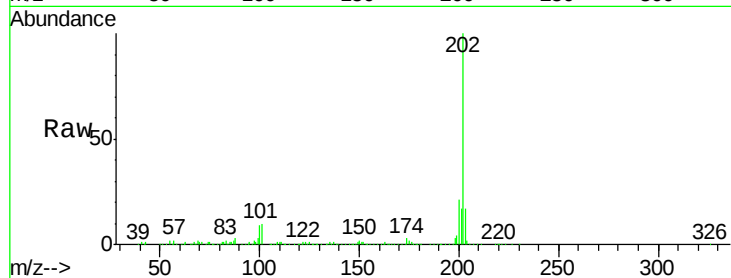
Tgt Ion:202 Resp: 207319

Ion Ratio Lower Upper

202 100

200 21.0 17.2 25.8

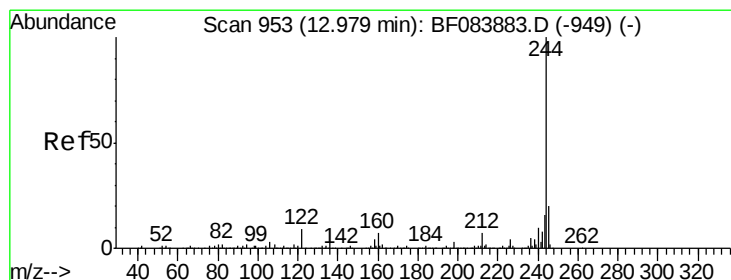
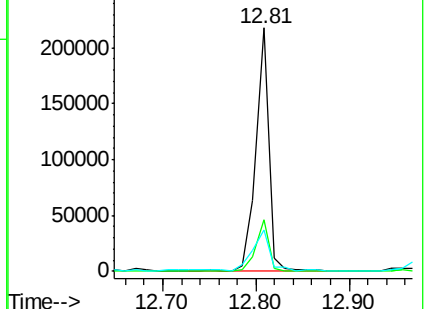
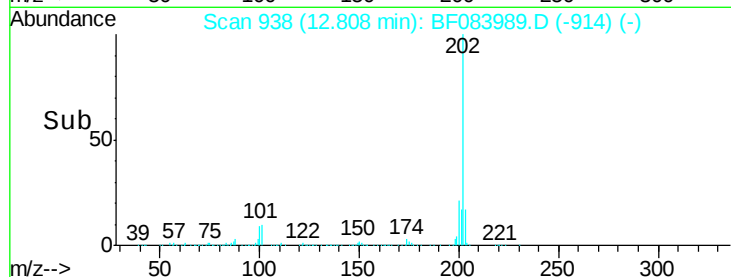
203 17.2 14.3 21.5



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: 94.48 ng

RT: 12.96 min Scan# 951

Delta R.T. -0.02 min

Lab File: BF083989.D

Acq: 20 Dec 2015 9:36

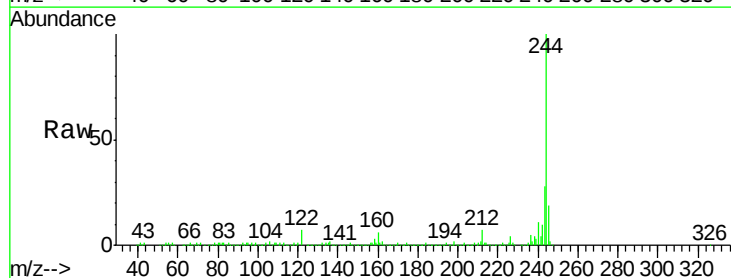
Tgt Ion:244 Resp: 666140

Ion Ratio Lower Upper

244 100

212 6.6 5.7 8.5

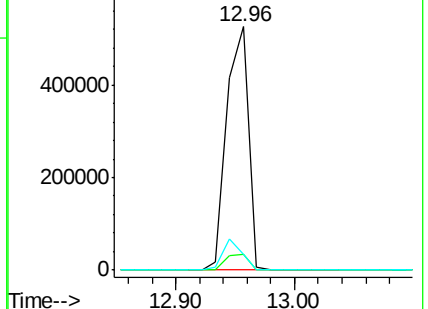
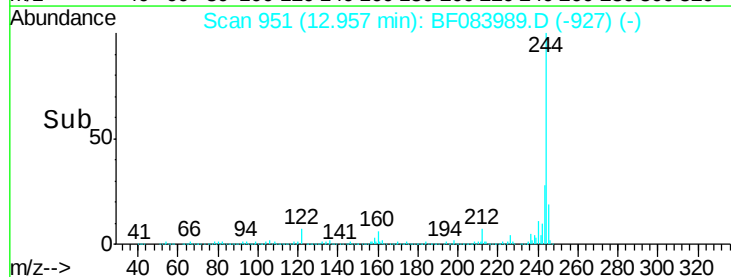
122 6.6 7.4 11.0#

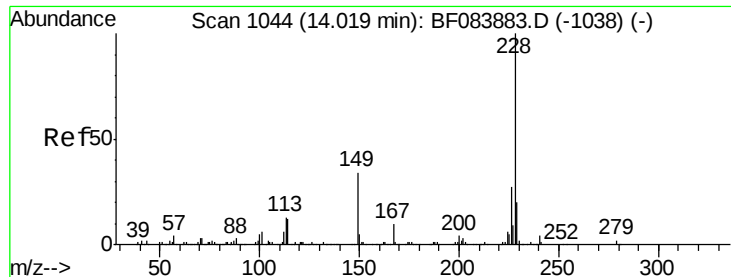


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 10.58 ng

RT: 14.00 min Scan# 1042

Delta R.T. -0.02 min

Lab File: BF083989.D

Acq: 20 Dec 2015 9:36

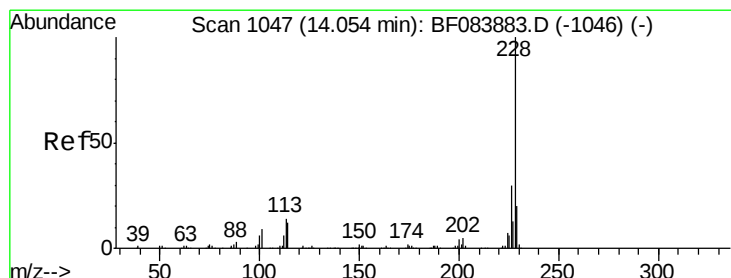
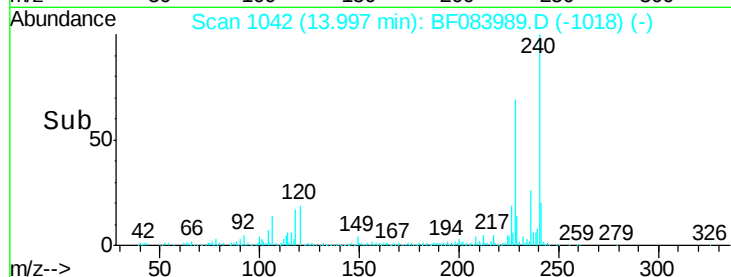
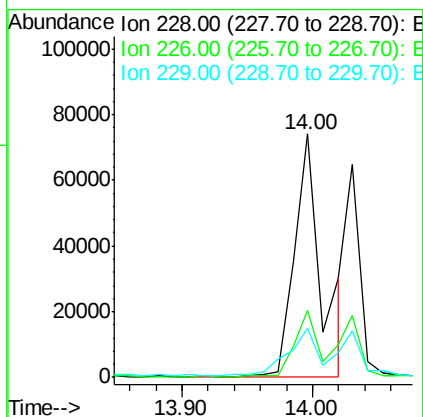
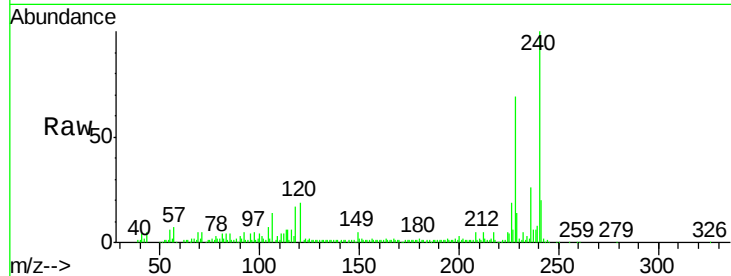
Instrument :

BNA_F

ClientSampleId :

LIBERTY-SF-121815

Tgt Ion:	228	Resp:	107996
Ion	Ratio	Lower	Upper
228	100		
226	27.7	21.8	32.6
229	20.1	15.8	23.8



#82

Chrysene

Concen: 10.95 ng

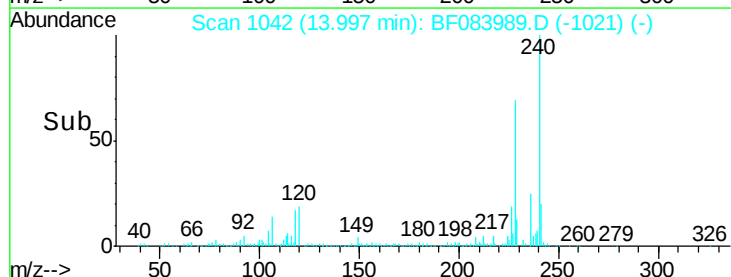
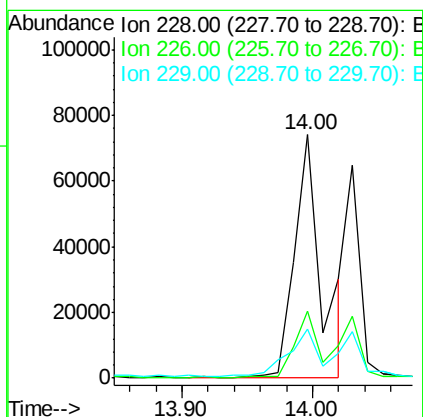
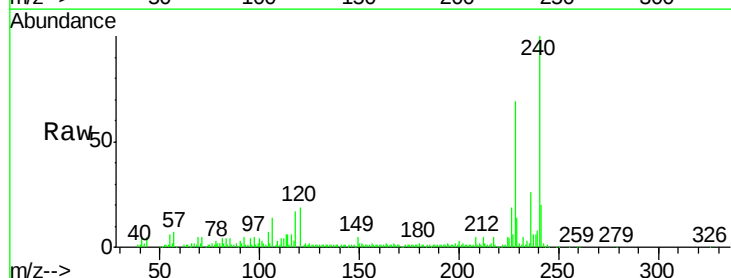
RT: 14.00 min Scan# 1042

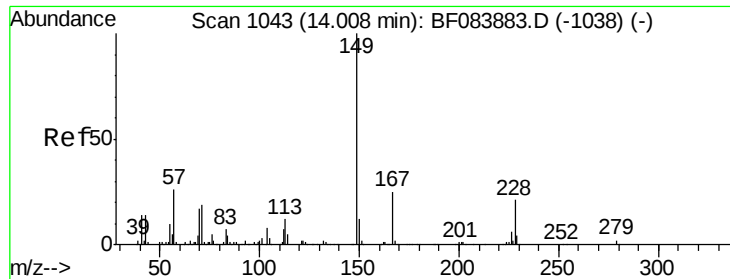
Delta R.T. -0.06 min

Lab File: BF083989.D

Acq: 20 Dec 2015 9:36

Tgt Ion:	228	Resp:	107996
Ion	Ratio	Lower	Upper
228	100		
226	27.7	24.3	36.5
229	20.1	16.1	24.1

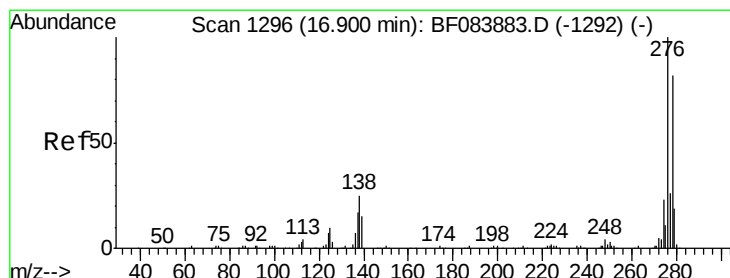
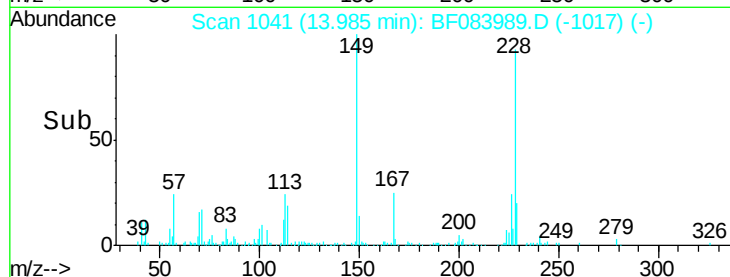
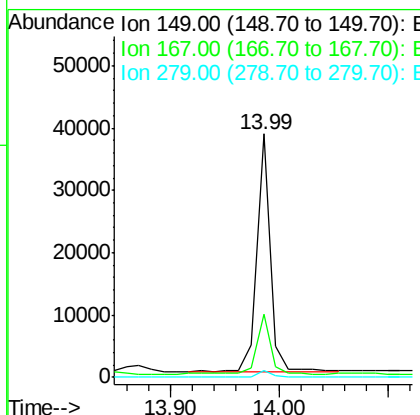
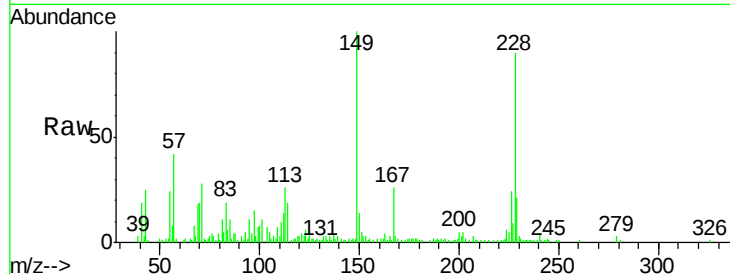




#83
 Bis(2-ethylhexyl)phthalate
 Concen: 4.49 ng
 RT: 13.99 min Scan# 1041
 Delta R.T. -0.02 min
 Lab File: BF083989.D
 Acq: 20 Dec 2015 9:36

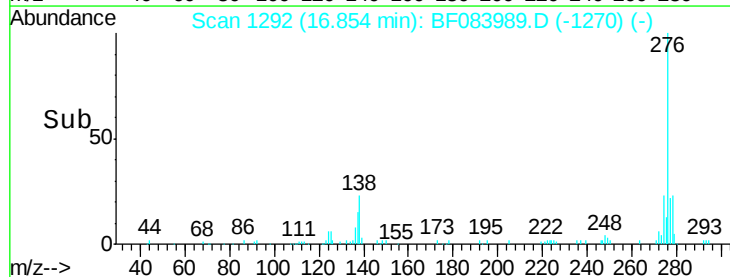
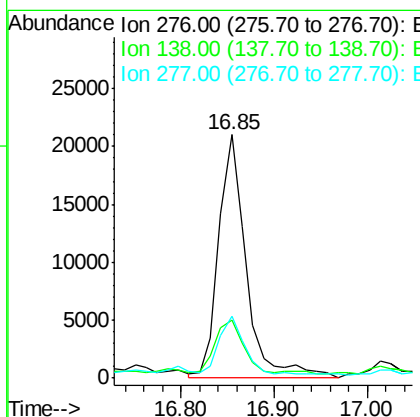
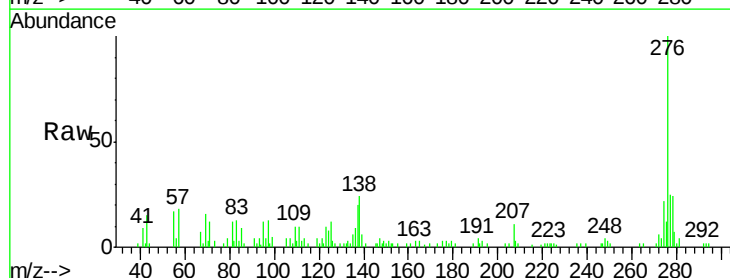
Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-121815

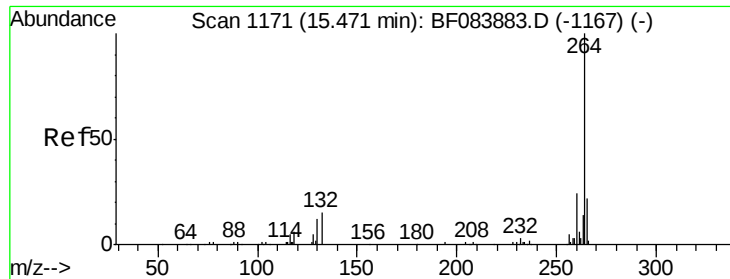
Tgt Ion:149 Resp: 33133
 Ion Ratio Lower Upper
 149 100
 167 26.1 19.7 29.5
 279 3.0 1.8 2.6#



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.88 ng
 RT: 16.85 min Scan# 1292
 Delta R.T. -0.05 min
 Lab File: BF083989.D
 Acq: 20 Dec 2015 9:36

Tgt Ion:276 Resp: 43347
 Ion Ratio Lower Upper
 276 100
 138 21.4 20.6 30.8
 277 21.4 20.1 30.1

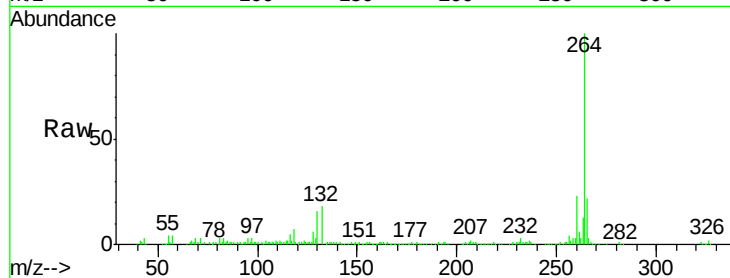




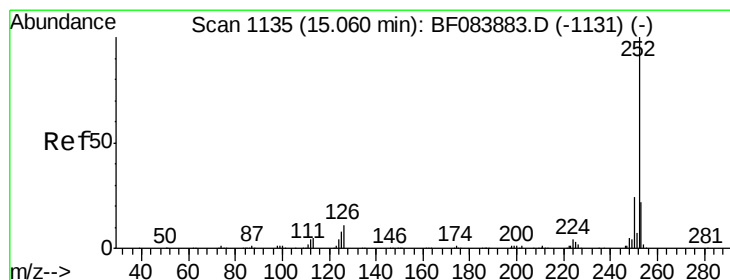
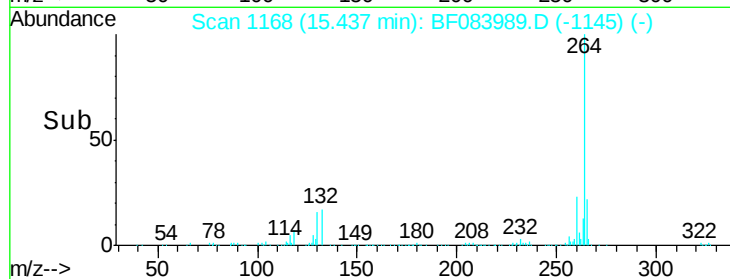
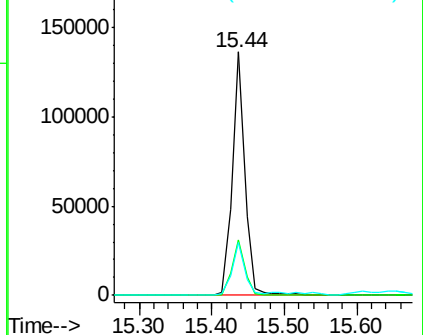
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.44 min Scan# 1168
Delta R.T. -0.03 min
Lab File: BF083989.D
Acq: 20 Dec 2015 9:36

Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-121815

Tgt Ion: 264 Resp: 165822
Ion Ratio Lower Upper
264 100
260 22.9 19.4 29.2
265 21.9 17.8 26.6

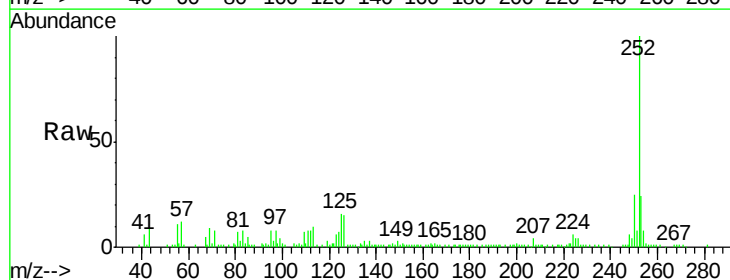


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

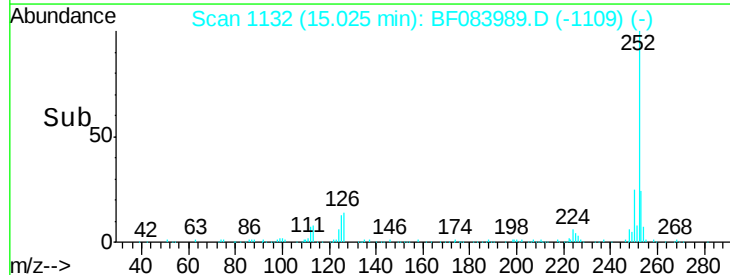
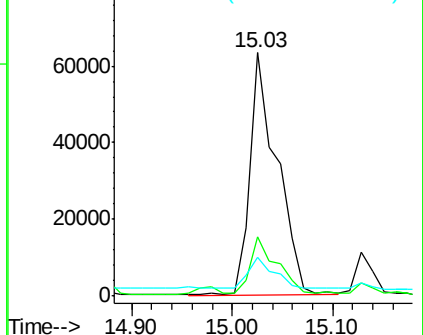


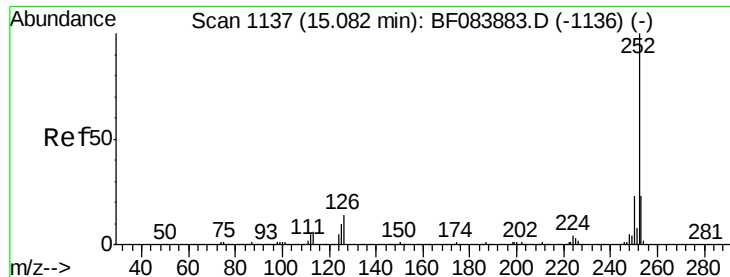
#87
Benzo(b)fluoranthene
Concen: 9.83 ng
RT: 15.03 min Scan# 1132
Delta R.T. -0.03 min
Lab File: BF083989.D
Acq: 20 Dec 2015 9:36

Tgt Ion: 252 Resp: 118893
Ion Ratio Lower Upper
252 100
253 24.2 17.3 25.9
125 15.9 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

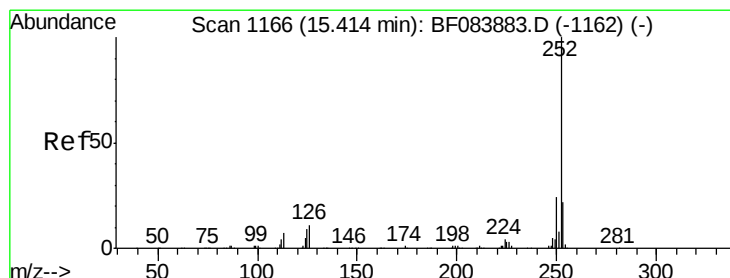
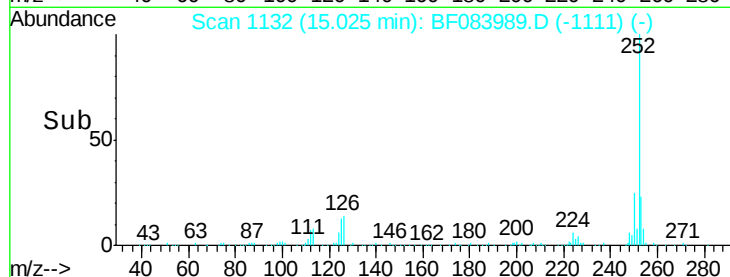
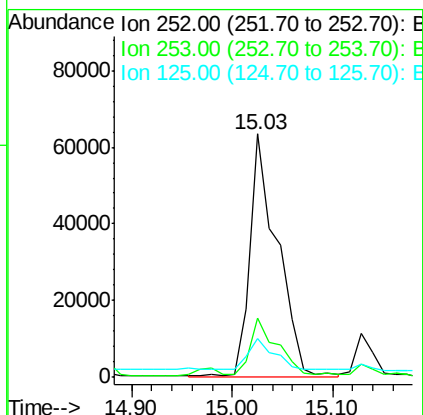
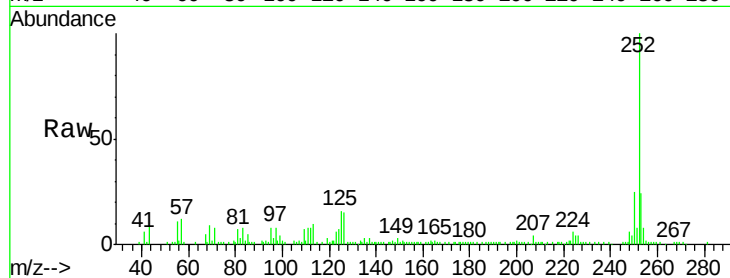




#88
Benzo(k)fluoranthene
Concen: 12.00 ng
RT: 15.03 min Scan# 1132
Delta R.T. -0.06 min
Lab File: BF083989.D
Acq: 20 Dec 2015 9:36

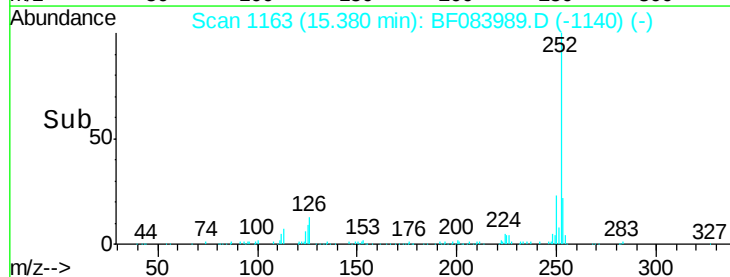
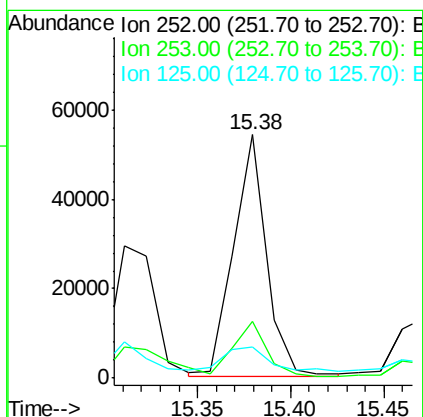
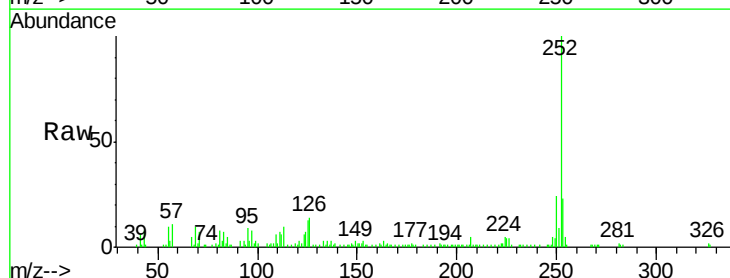
Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-121815

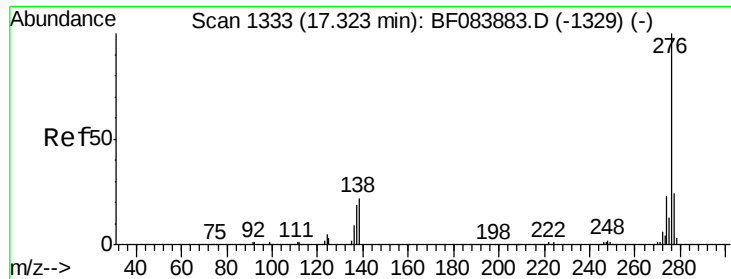
Tgt Ion:252 Resp: 119664
Ion Ratio Lower Upper
252 100
253 24.2 18.1 27.1
125 15.9 9.0 13.6#



#89
Benzo(a)pyrene
Concen: 6.67 ng
RT: 15.38 min Scan# 1163
Delta R.T. -0.03 min
Lab File: BF083989.D
Acq: 20 Dec 2015 9:36

Tgt Ion:252 Resp: 66575
Ion Ratio Lower Upper
252 100
253 23.2 17.3 25.9
125 13.0 7.0 10.4#

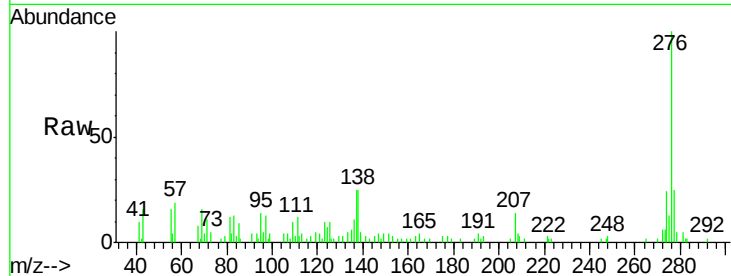




#91
 Benzo(g,h,i)perylene
 Concen: 5.23 ng
 RT: 17.28 min Scan# 1329
 Delta R.T. -0.05 min
 Lab File: BF083989.D
 Acq: 20 Dec 2015 9:36

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-121815

Tgt Ion:	276	Resp:	39785
Ion	Ratio	Lower	Upper
276	100		
277	25.0	18.8	28.2
138	24.9	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

