

Data Path : Z:\HPCHEM1\BNA F\DATA\BF111815\
 Data File : BF083021.D
 Acq On : 18 Nov 2015 21:27
 Operator : UM/IZ
 Sample : G4480-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY SF_002

Quant Time: Nov 19 01:51:52 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 18 13:32:32 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	184476	20.00	ng	-0.01
21) Naphthalene-d8	8.02	136	966028	20.00	ng	0.00
38) Acenaphthene-d10	9.77	164	441449	20.00	ng	-0.01
63) Phenanthrene-d10	11.24	188	710459	20.00	ng	-0.01
75) Chrysene-d12	13.87	240	480192	20.00	ng	-0.02
86) Perylene-d12	15.27	264	477793	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.33	112	949469	80.08	ng	0.00
7) Phenol-d6	6.38	99	1428109	90.60	ng	-0.01
23) Nitrobenzene-d5	7.30	82	1421578	64.03	ng	-0.01
41) 2,4,6-Tribromophenol	10.56	330	400153	79.06	ng	-0.01
44) 2-Fluorobiphenyl	9.09	172	1943161	63.09	ng	-0.01
78) Terphenyl-d14	12.83	244	1466263	72.42	ng	-0.01

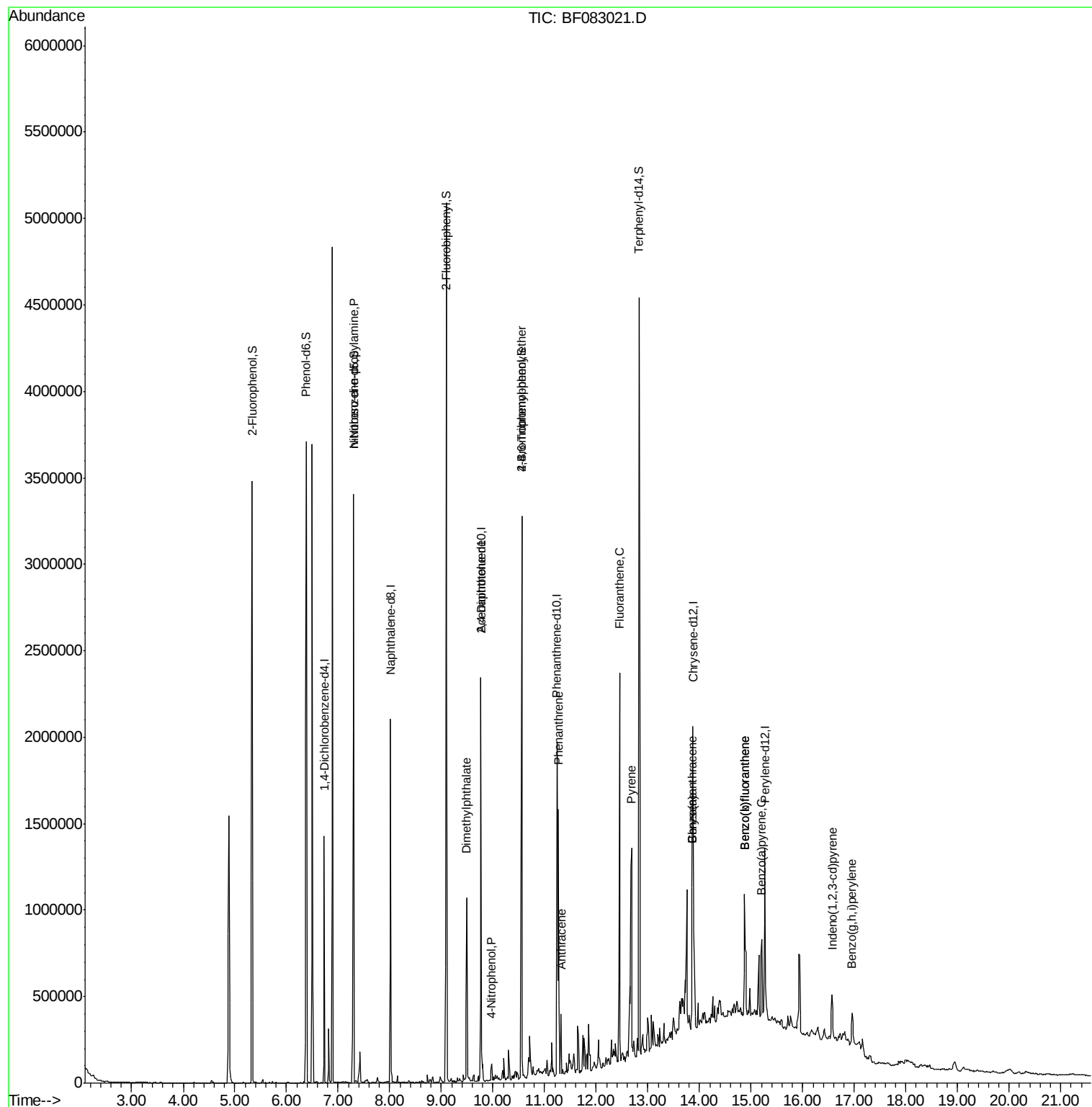
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.30	70	188135	16.24	ng	# 65
49) Dimethylphthalate	9.49	163	397772	11.00	ng	98
55) 4-Nitrophenol	9.97	139	14455	2.22	ng	# 4
56) 2,4-Dinitrotoluene	9.77	165	61358	5.86	ng	# 15
66) 4-Bromophenyl-phenylether	10.56	248	28568	3.34	ng	# 1
70) Phenanthrene	11.26	178	575914	13.96	ng	97
71) Anthracene	11.32	178	176050	4.05	ng	95
74) Fluoranthene	12.45	202	863975	19.51	ng	99
77) Pyrene	12.68	202	703038	21.32	ng	97
80) Benzo(a)anthracene	13.86	228	377182	12.56	ng	97
82) Chrysene	13.86	228	377182	13.71	ng	94
85) Indeno(1,2,3-cd)pyrene	16.57	276	173435	7.32	ng	# 94
87) Benzo(b)fluoranthene	14.88	252	480202	15.66	ng	# 95
88) Benzo(k)fluoranthene	14.88	252	480202	17.65	ng	# 95
89) Benzo(a)pyrene	15.21	252	267565	10.07	ng	100
91) Benzo(g,h,i)perylene	16.96	276	152362	7.07	ng	# 93

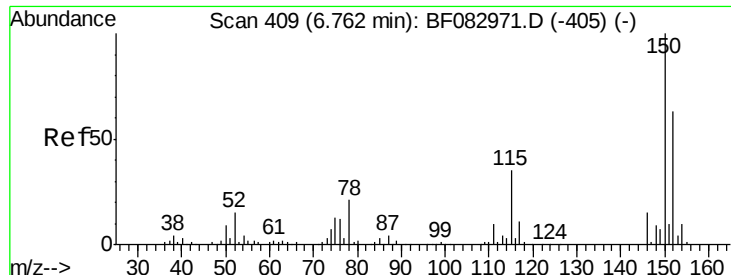
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.73 min Scan# 406

Delta R.T. -0.01 min

Lab File: BF083021.D

Acq: 18 Nov 2015 21:27

Instrument :

BNA_F

ClientSampleId :

LIBERTY SF_002

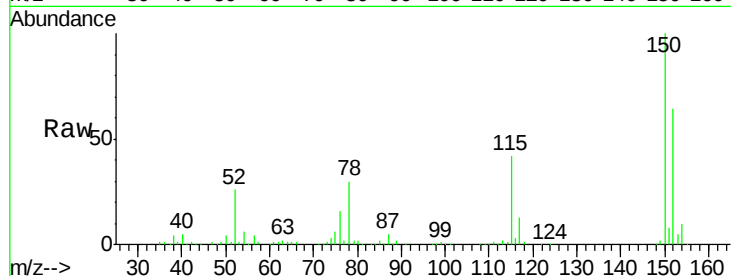
Tot Ion:152 Resp: 184476

Ion Ratio Lower Upper

152 100

150 157.3 127.0 190.4

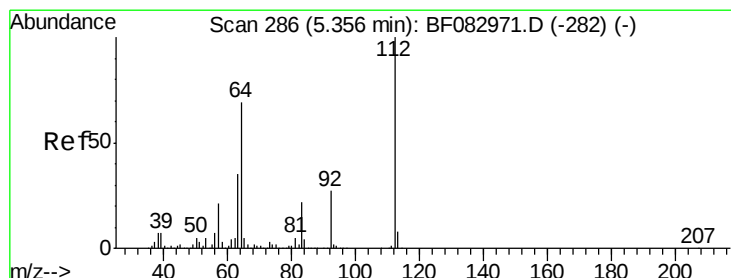
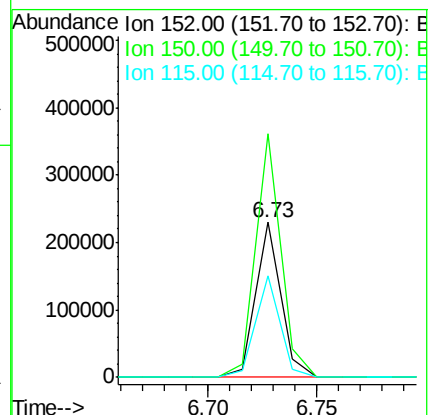
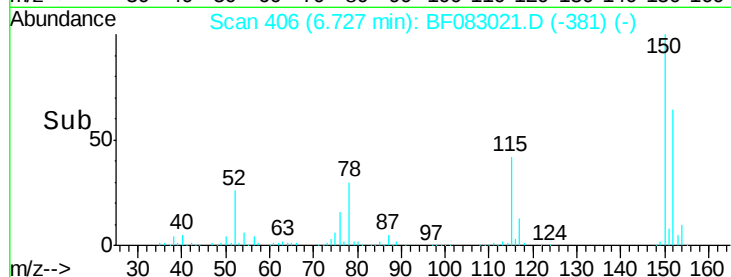
115 65.9 47.0 70.6



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: 80.08 ng

RT: 5.33 min Scan# 284

Delta R.T. -0.00 min

Lab File: BF083021.D

Acq: 18 Nov 2015 21:27

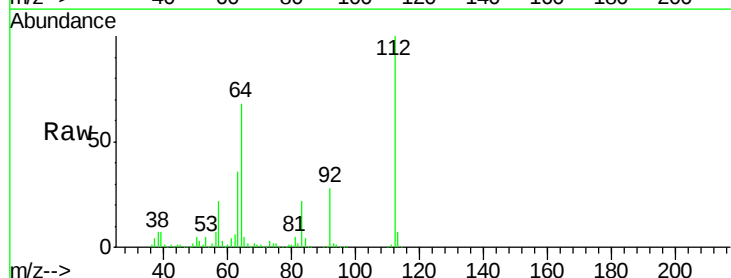
Tgt Ion:112 Resp: 949469

Ion Ratio Lower Upper

112 100

64 68.5 48.9 73.3

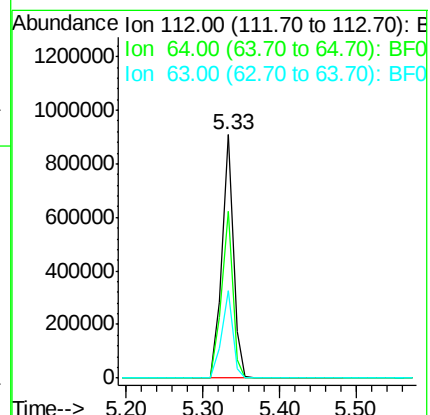
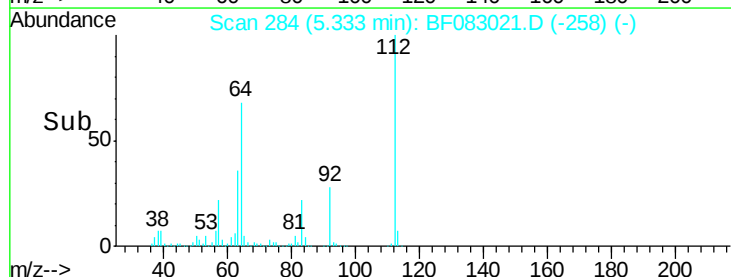
63 36.0 28.1 42.1



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 90.60 ng

RT: 6.38 min Scan# 376

Delta R.T. -0.01 min

Lab File: BF083021.D

Acq: 18 Nov 2015 21:27

Instrument :

BNA_F

ClientSampleId :

LIBERTY SF_002

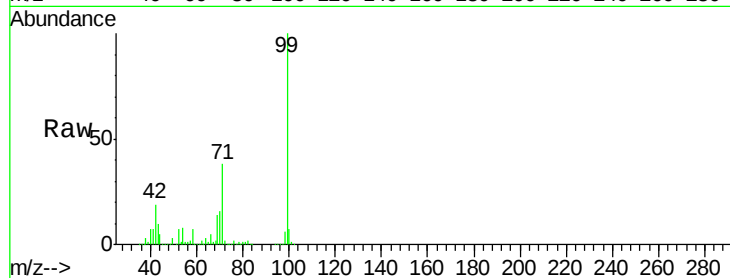
Tot Ion: 99 Resp: 1428109

Ion Ratio Lower Upper

99 100

42 19.3 19.2 28.8

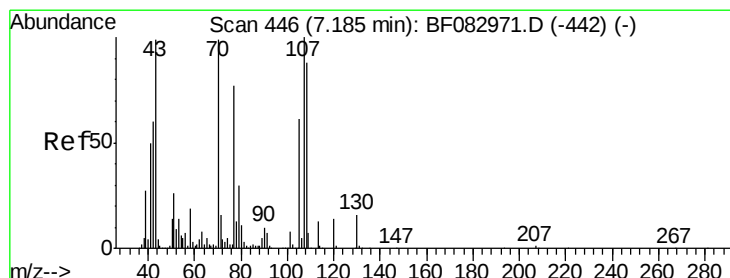
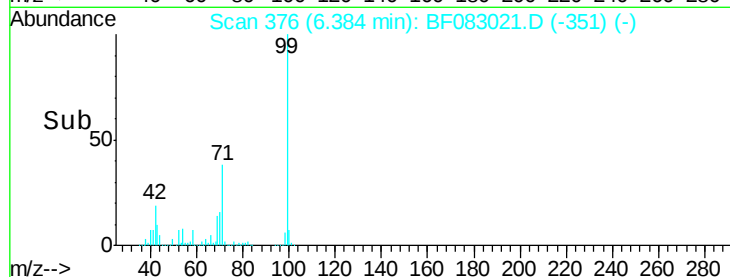
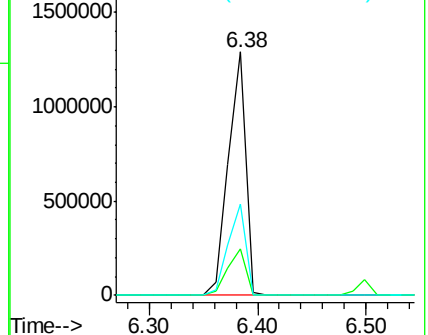
71 37.6 35.0 52.4



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



#19

n-Nitroso-di-n-propylamine

Concen: 16.24 ng

RT: 7.30 min Scan# 456

Delta R.T. 0.13 min

Lab File: BF083021.D

Acq: 18 Nov 2015 21:27

Tgt Ion: 70 Resp: 188135

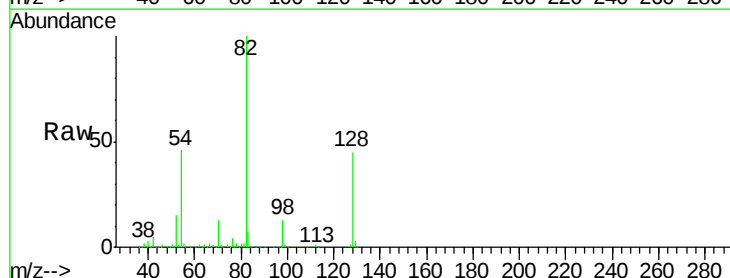
Ion Ratio Lower Upper

70 100

42 40.7 57.7 86.5#

101 0.0 7.0 10.6#

130 2.1 11.8 17.6#

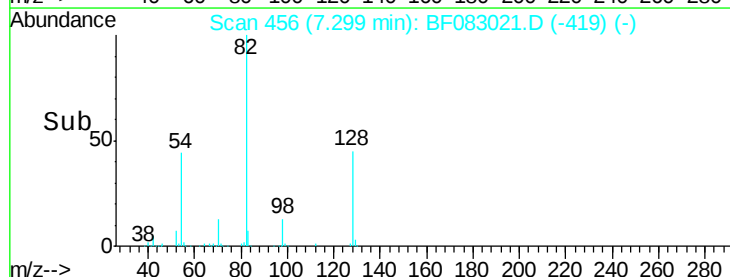
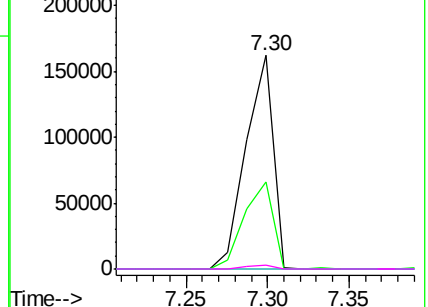


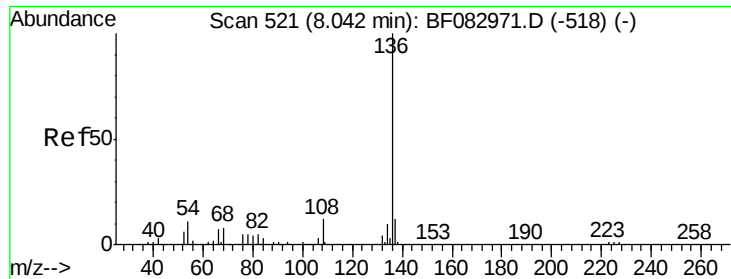
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

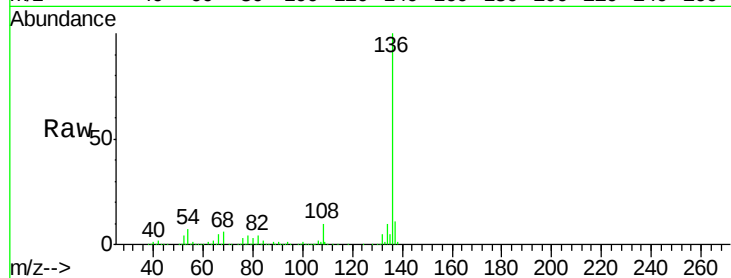




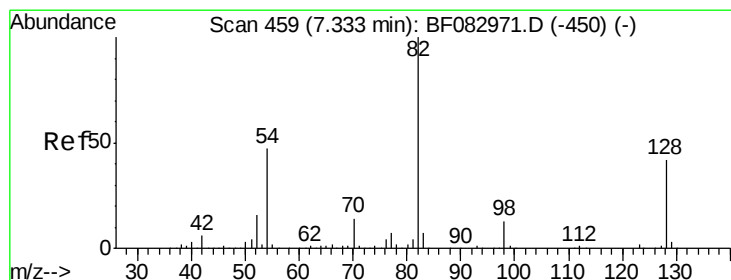
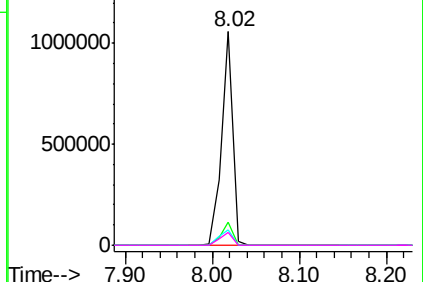
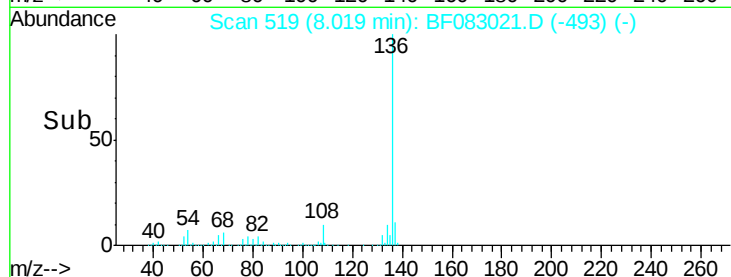
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.02 min Scan# 519
Delta R.T. -0.00 min
Lab File: BF083021.D
Acq: 18 Nov 2015 21:27

Instrument :
BNA_F
ClientSampleId :
LIBERTY SF_002

Tot Ion:136	Resp:	966028
Ion	Ratio	Lower Upper
136	100	
137	11.0	9.1 13.7
54	7.2	9.1 13.7#
68	5.8	4.8 7.2

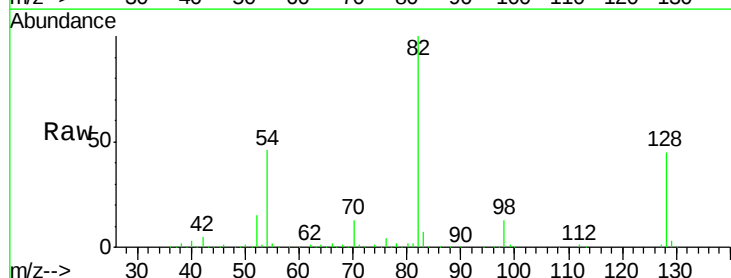


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

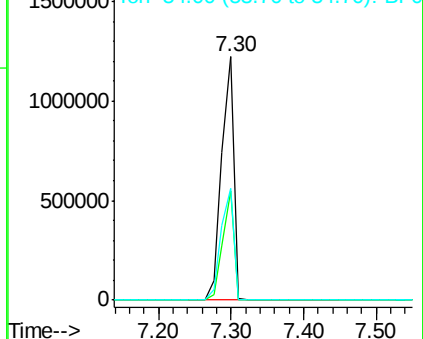
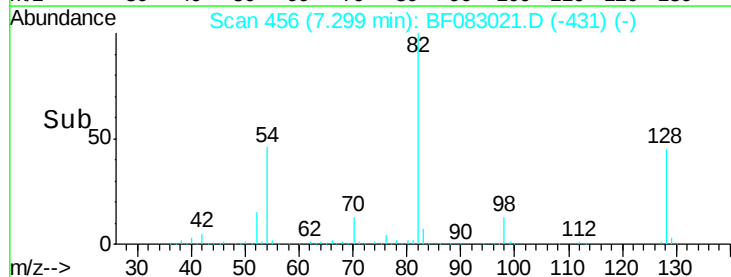


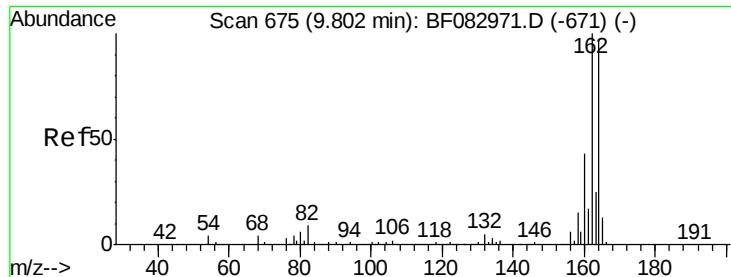
#23
Nitrobenzene-d5
Concen: 64.03 ng
RT: 7.30 min Scan# 456
Delta R.T. -0.01 min
Lab File: BF083021.D
Acq: 18 Nov 2015 21:27

Tgt Ion: 82	Resp:	1421578
Ion	Ratio	Lower Upper
82	100	
128	44.9	26.8 40.2#
54	46.2	45.7 68.5



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

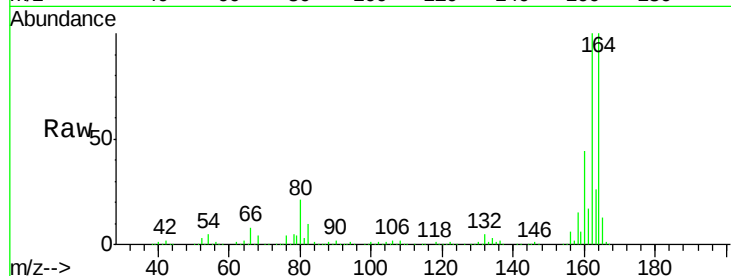




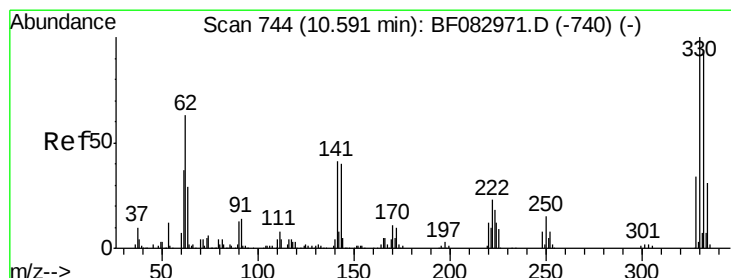
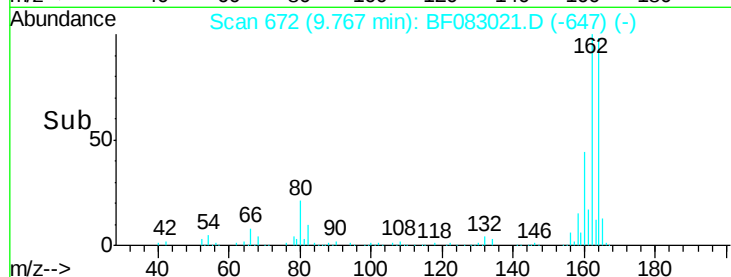
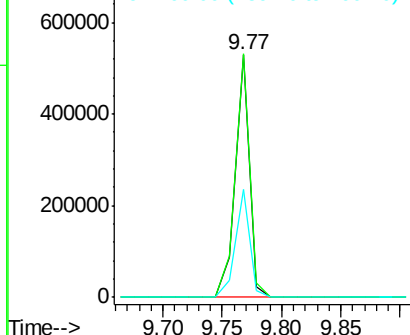
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.77 min Scan# 672
Delta R.T. -0.01 min
Lab File: BF083021.D
Acq: 18 Nov 2015 21:27

Instrument :
BNA_F
ClientSampleId :
LIBERTY SF_002

Tot Ion:164 Resp: 441449
Ion Ratio Lower Upper
164 100
162 100.4 84.9 127.3
160 44.4 37.5 56.3

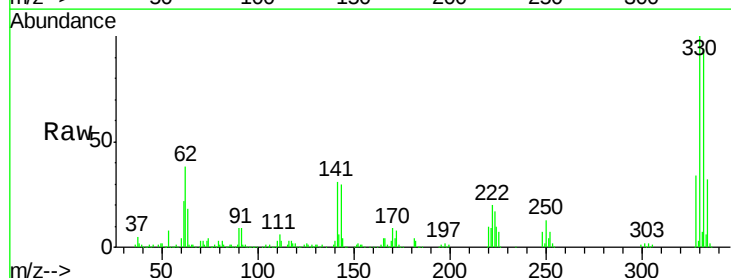


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

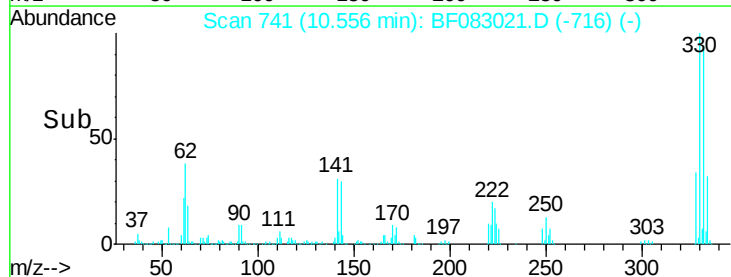
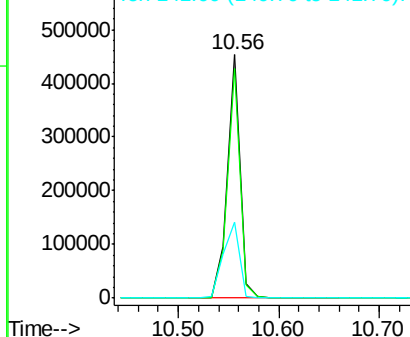


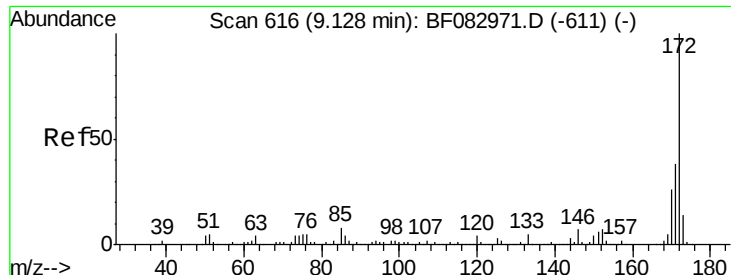
#41
2,4,6-Tribromophenol
Concen: 79.06 ng
RT: 10.56 min Scan# 741
Delta R.T. -0.01 min
Lab File: BF083021.D
Acq: 18 Nov 2015 21:27

Tgt Ion:330 Resp: 400153
Ion Ratio Lower Upper
330 100
332 93.8 76.6 114.8
141 39.6 41.2 61.8#



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

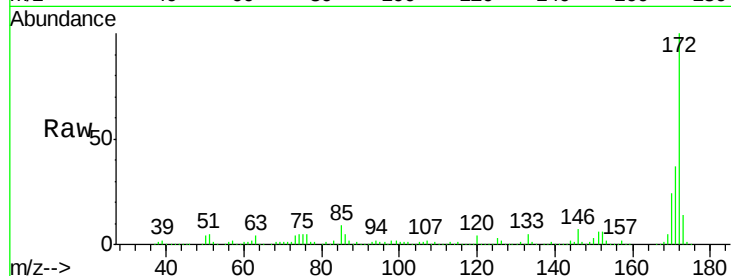




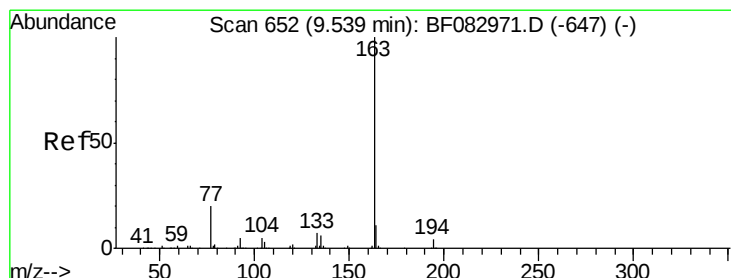
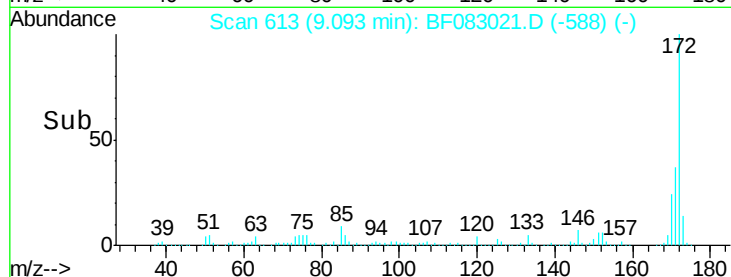
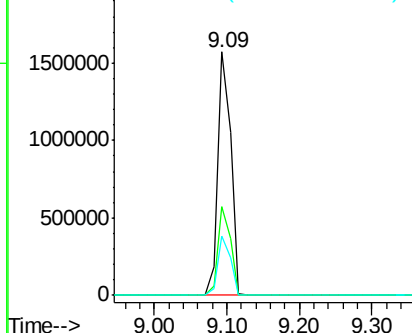
#44
2-Fluorobiphenyl
Concen: 63.09 ng
RT: 9.09 min Scan# 613
Delta R.T. -0.01 min
Lab File: BF083021.D
Acq: 18 Nov 2015 21:27

Instrument :
BNA_F
ClientSampleId :
LIBERTY SF_002

Tot Ion:172 Resp: 1943161
Ion Ratio Lower Upper
172 100
171 36.5 30.8 46.2
170 24.4 21.2 31.8

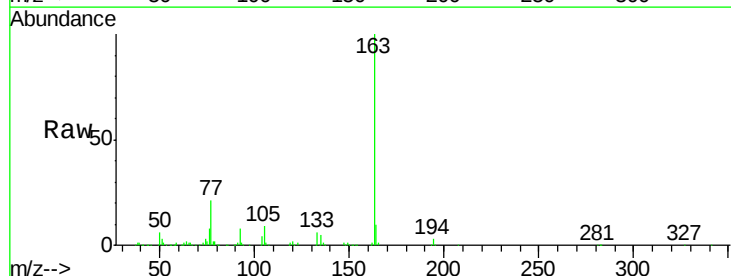


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

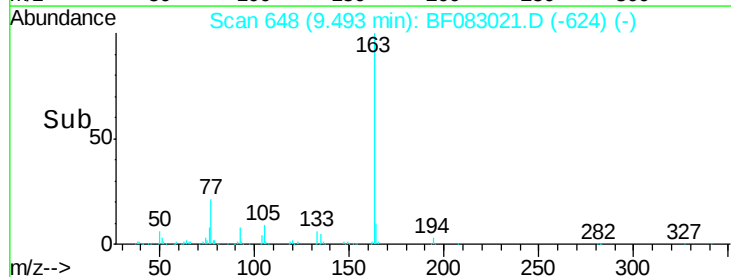
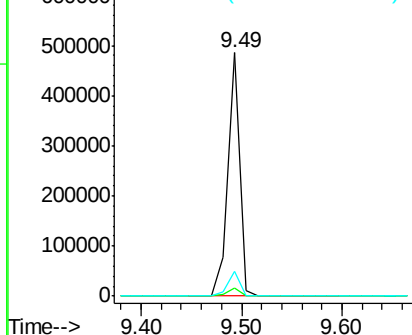


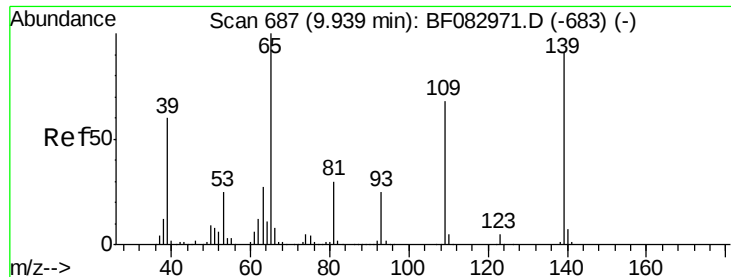
#49
Dimethylphthalate
Concen: 11.00 ng
RT: 9.49 min Scan# 648
Delta R.T. -0.02 min
Lab File: BF083021.D
Acq: 18 Nov 2015 21:27

Tgt Ion:163 Resp: 397772
Ion Ratio Lower Upper
163 100
194 3.4 2.6 4.0
164 9.9 8.7 13.1



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

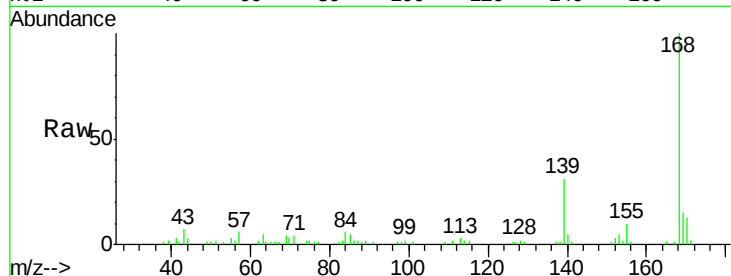




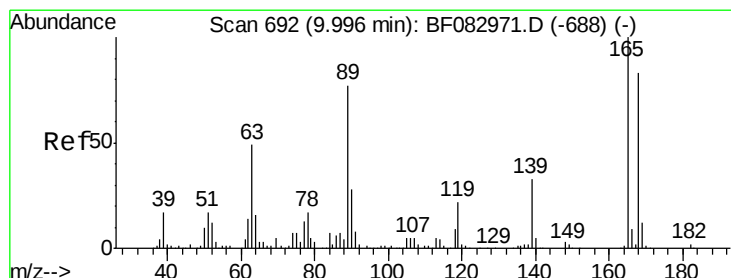
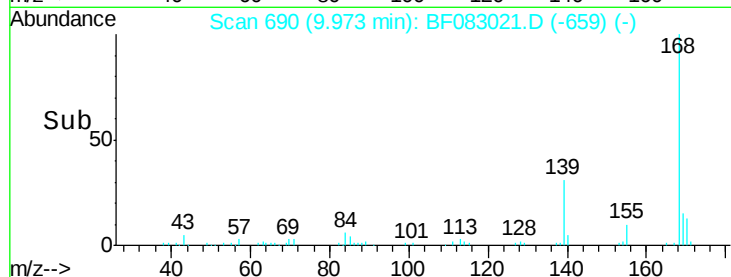
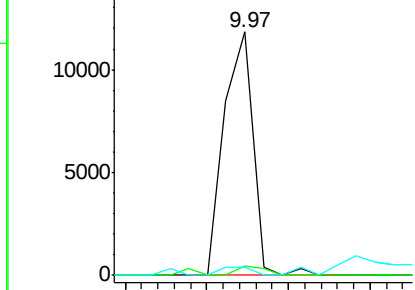
#55
4-Nitrophenol
Concen: 2.22 ng
RT: 9.97 min Scan# 690
Delta R.T. 0.06 min
Lab File: BF083021.D
Acq: 18 Nov 2015 21:27

Instrument :
BNA_F
ClientSampleId :
LIBERTY_SF_002

Tot Ion	Ratio	Lower	Upper
139	100		
109	3.7	73.7	113.7#
65	3.3	82.9	122.9#



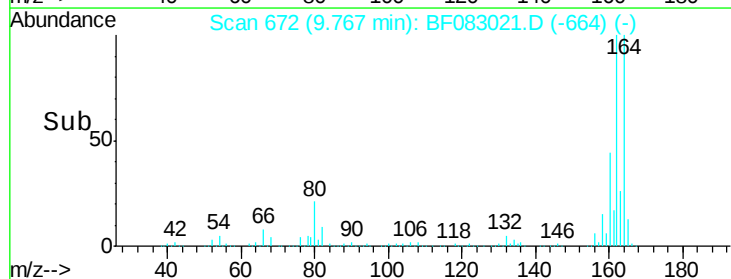
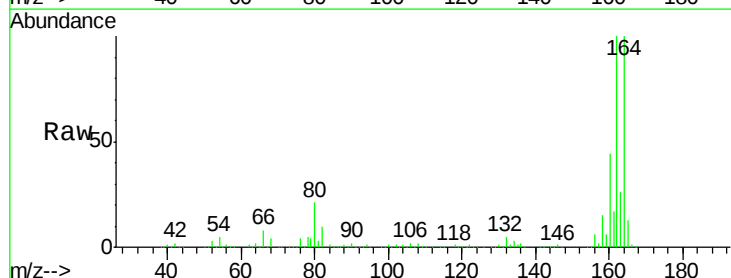
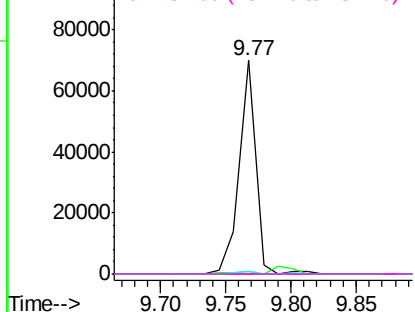
Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

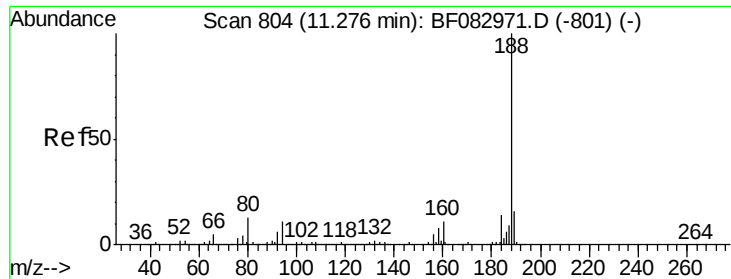


#56
2,4-Dinitrotoluene
Concen: 5.86 ng
RT: 9.77 min Scan# 672
Delta R.T. -0.21 min
Lab File: BF083021.D
Acq: 18 Nov 2015 21:27

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.2	43.4	65.0#
89	1.2	70.6	106.0#
182	0.0	1.5	2.3#

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

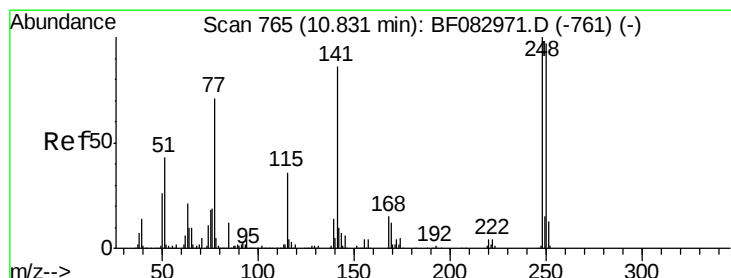
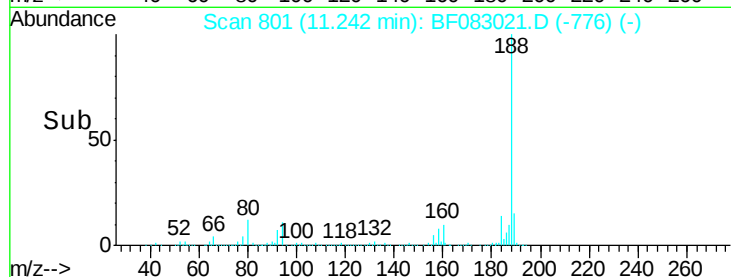
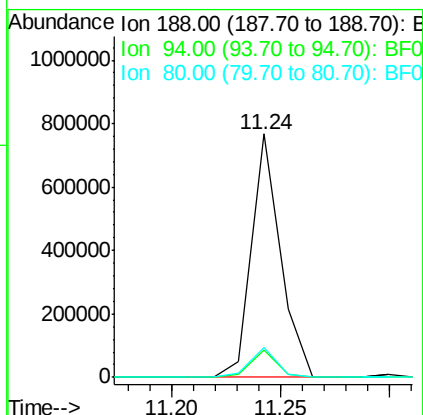
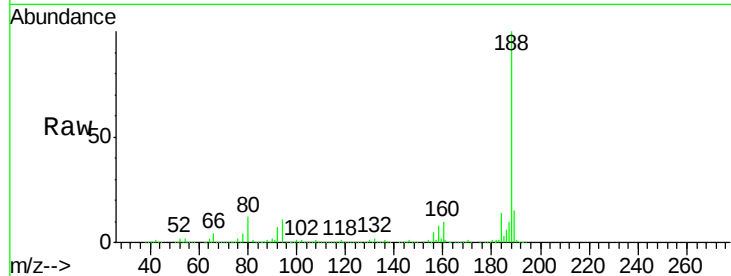




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.24 min Scan# 801
Delta R.T. -0.01 min
Lab File: BF083021.D
Acq: 18 Nov 2015 21:27

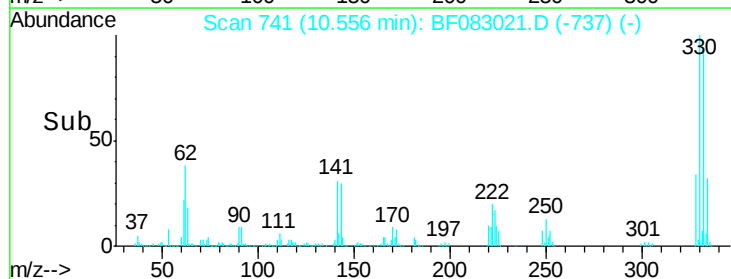
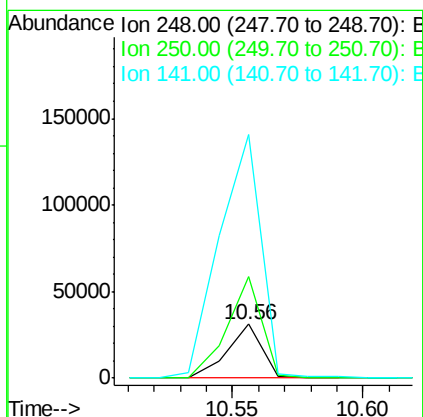
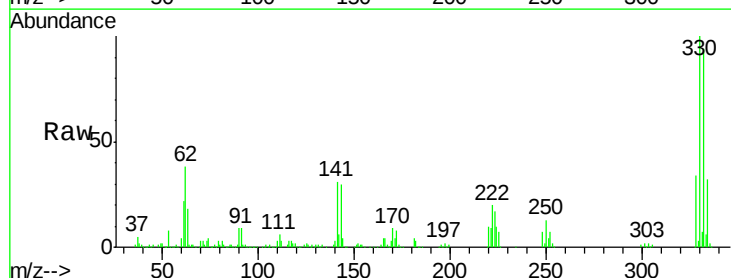
Instrument :
BNA_F
ClientSampleId :
LIBERTY_SF_002

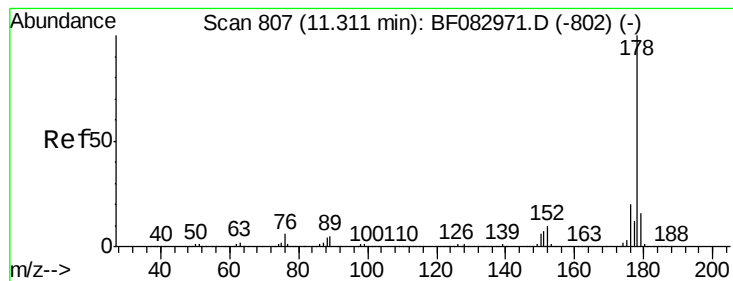
Tot Ion:188 Resp: 710459
Ion Ratio Lower Upper
188 100
94 11.5 6.1 9.1#
80 12.5 7.0 10.6#



#66
4-Bromophenyl-phenylether
Concen: 3.34 ng
RT: 10.56 min Scan# 741
Delta R.T. -0.25 min
Lab File: BF083021.D
Acq: 18 Nov 2015 21:27

Tgt Ion:248 Resp: 28568
Ion Ratio Lower Upper
248 100
250 189.2 79.4 119.2#
141 454.2 36.3 54.5#





#70

Phenanthrene

Concen: 13.96 ng

RT: 11.26 min Scan# 803

Delta R.T. -0.01 min

Lab File: BF083021.D

Acq: 18 Nov 2015 21:27

Instrument :

BNA_F

ClientSampleId :

LIBERTY SF_002

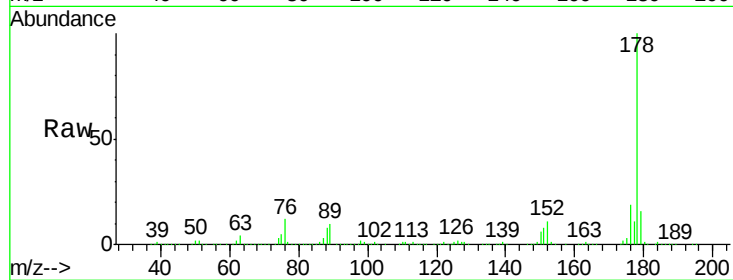
Tot Ion:178 Resp: 575914

Ion Ratio Lower Upper

178 100

176 19.5 17.0 25.4

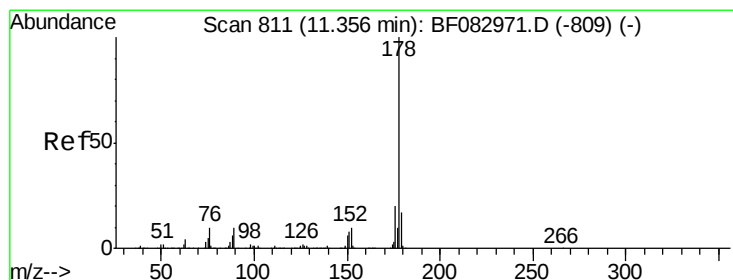
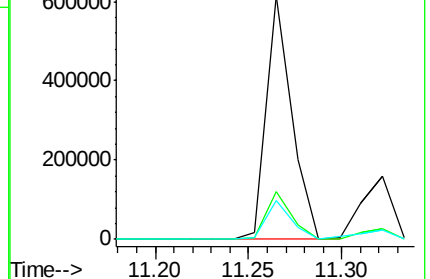
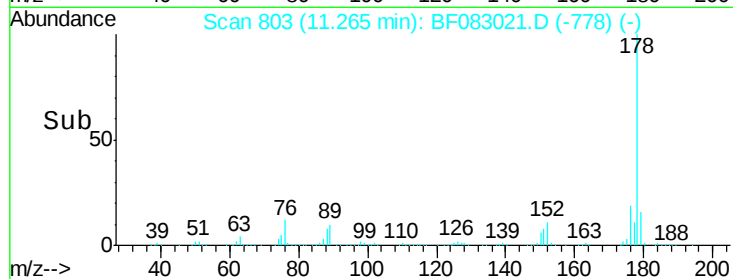
179 15.9 13.4 20.0



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: 4.05 ng

RT: 11.32 min Scan# 808

Delta R.T. -0.01 min

Lab File: BF083021.D

Acq: 18 Nov 2015 21:27

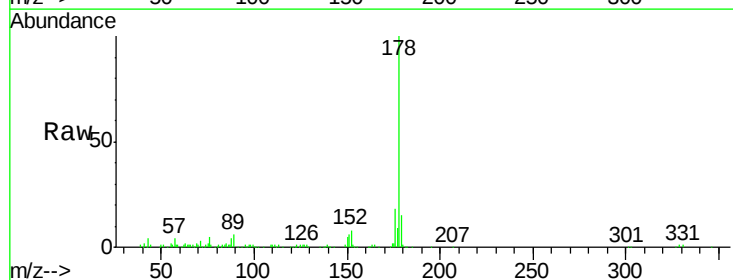
Tgt Ion:178 Resp: 176050

Ion Ratio Lower Upper

178 100

176 17.6 16.5 24.7

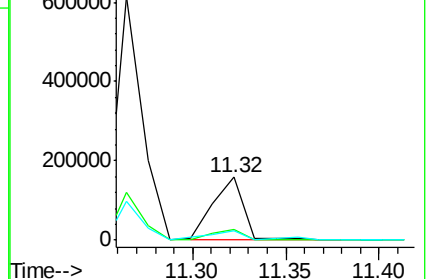
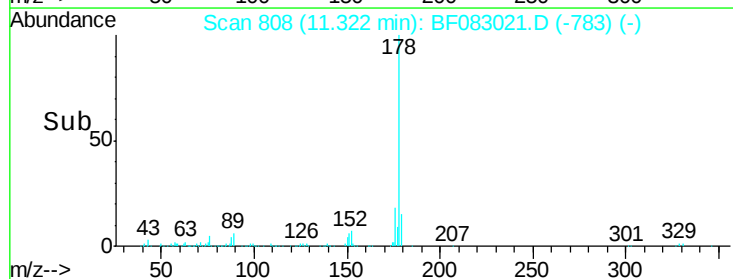
179 14.7 13.2 19.8

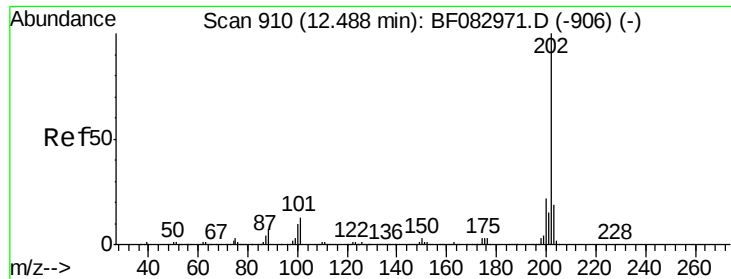


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 19.51 ng

RT: 12.45 min Scan# 907

Delta R.T. -0.01 min

Lab File: BF083021.D

Acq: 18 Nov 2015 21:27

Instrument :

BNA_F

ClientSampleId :

LIBERTY SF_002

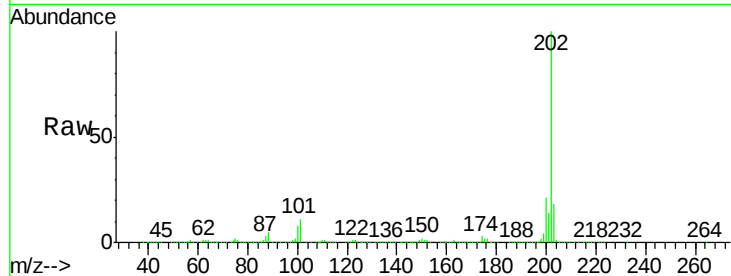
Tot Ion:202 Resp: 863975

Ion Ratio Lower Upper

202 100

101 10.7 0.0 30.5

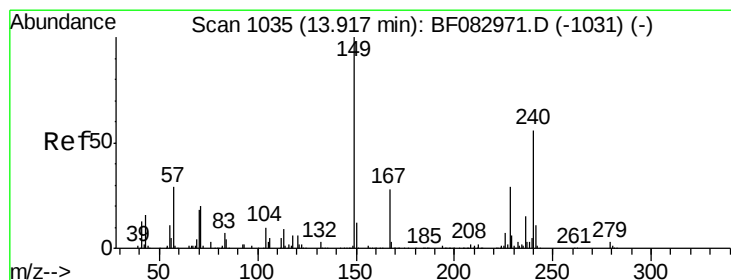
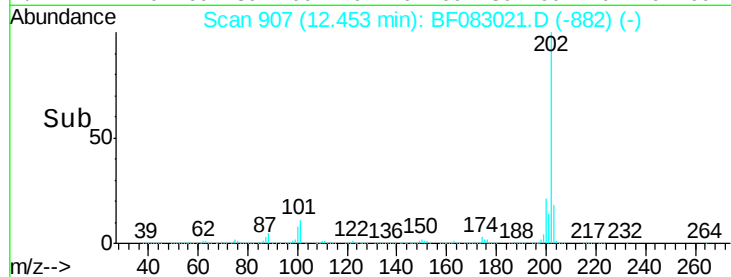
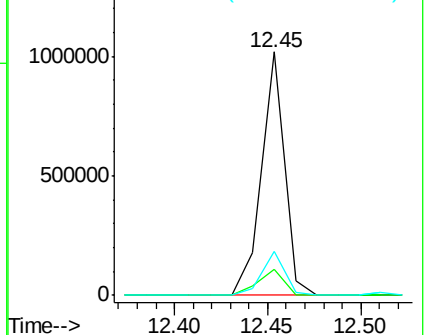
203 17.8 0.0 38.5



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: 13.87 min Scan# 1031

Delta R.T. -0.02 min

Lab File: BF083021.D

Acq: 18 Nov 2015 21:27

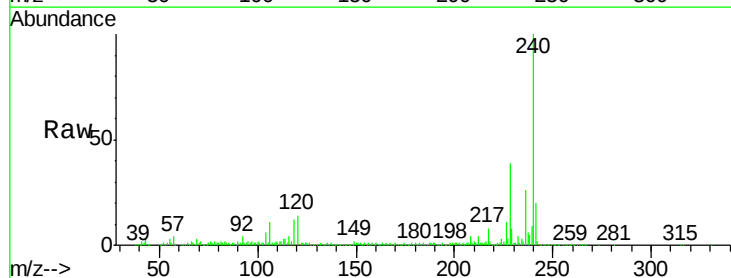
Tgt Ion:240 Resp: 480192

Ion Ratio Lower Upper

240 100

120 14.3 10.9 16.3

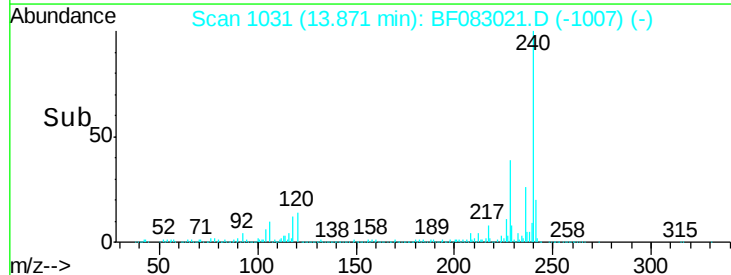
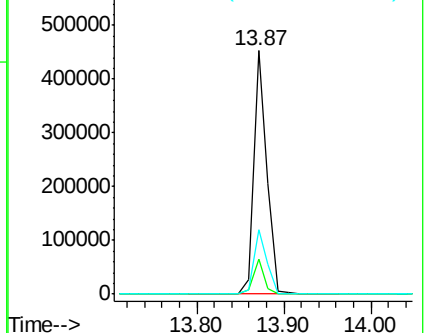
236 26.5 21.6 32.4

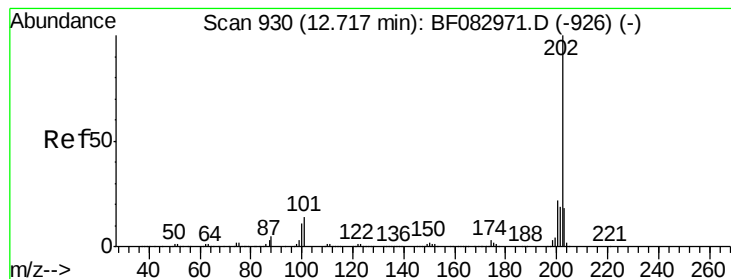


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 21.32 ng

RT: 12.68 min Scan# 927

Delta R.T. -0.01 min

Lab File: BF083021.D

Acq: 18 Nov 2015 21:27

Instrument :

BNA_F

ClientSampleId :

LIBERTY SF_002

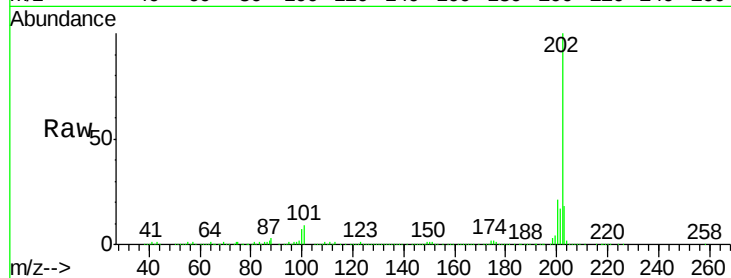
Tot Ion:202 Resp: 703038

Ion Ratio Lower Upper

202 100

200 20.8 18.7 28.1

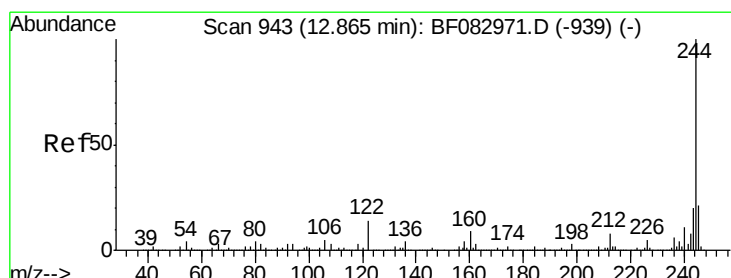
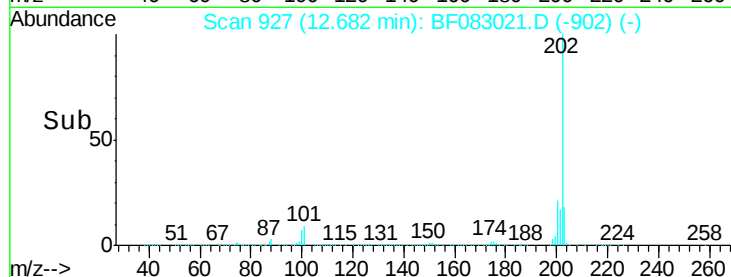
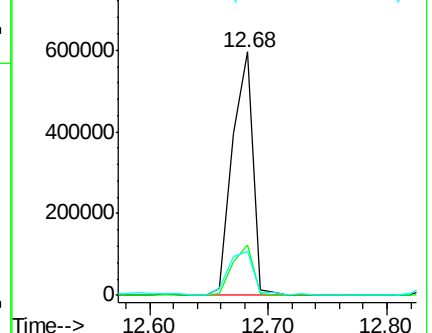
203 18.1 14.8 22.2



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: 72.42 ng

RT: 12.83 min Scan# 940

Delta R.T. -0.01 min

Lab File: BF083021.D

Acq: 18 Nov 2015 21:27

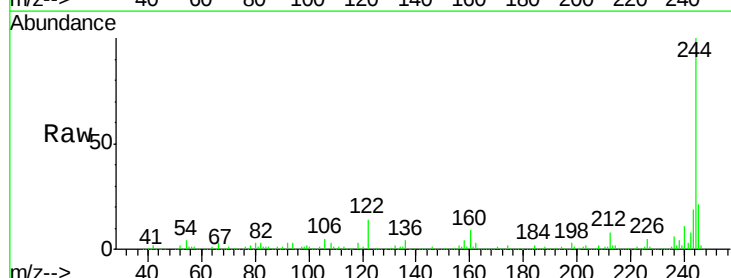
Tgt Ion:244 Resp: 1466263

Ion Ratio Lower Upper

244 100

212 8.2 7.6 11.4

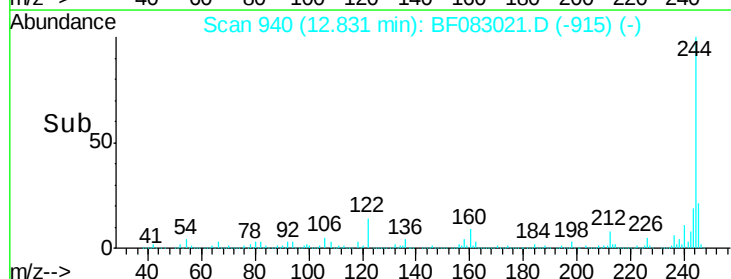
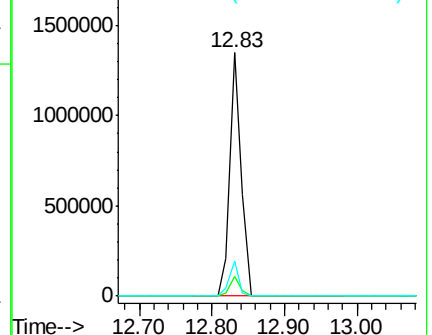
122 14.3 11.3 16.9

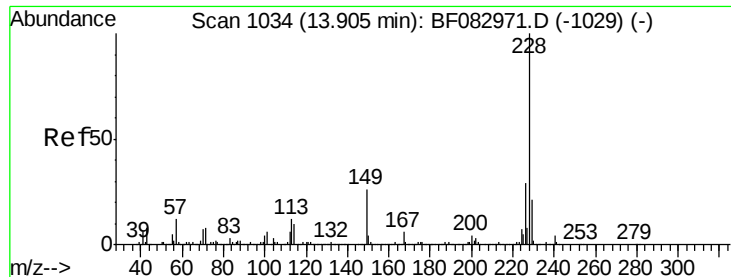


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 12.56 ng

RT: 13.86 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BF083021.D

Acq: 18 Nov 2015 21:27

Instrument :

BNA_F

ClientSampleId :

LIBERTY SF_002

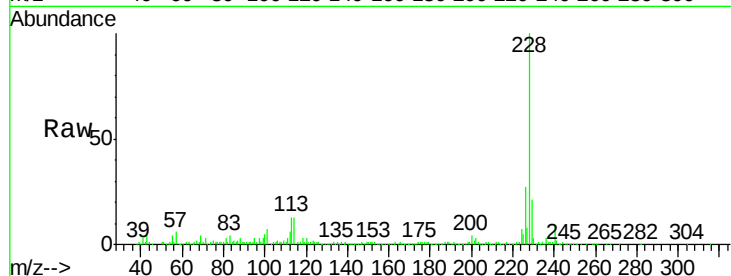
Tot Ion:228 Resp: 377182

Ion Ratio Lower Upper

228 100

226 27.2 23.4 35.2

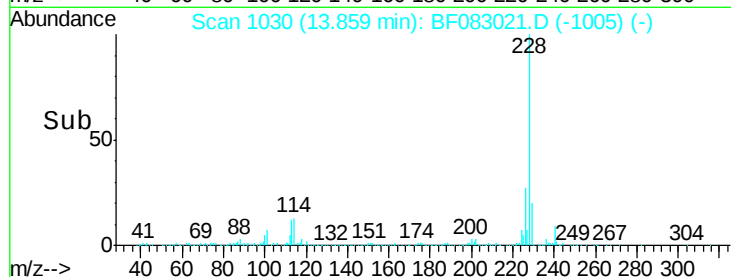
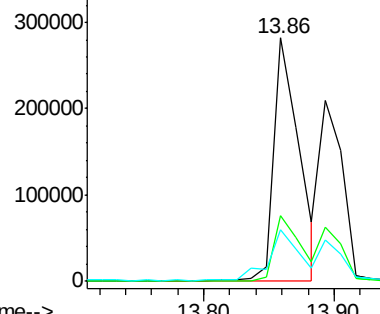
229 21.0 16.3 24.5



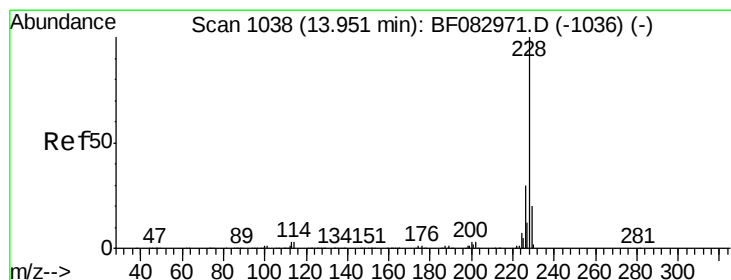
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time-->



#82

Chrysene

Concen: 13.71 ng

RT: 13.86 min Scan# 1030

Delta R.T. -0.06 min

Lab File: BF083021.D

Acq: 18 Nov 2015 21:27

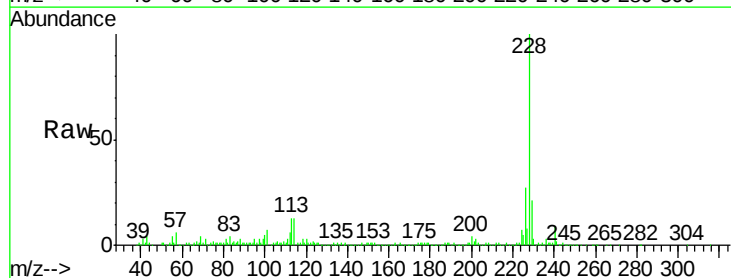
Tgt Ion:228 Resp: 377182

Ion Ratio Lower Upper

228 100

226 27.2 25.5 38.3

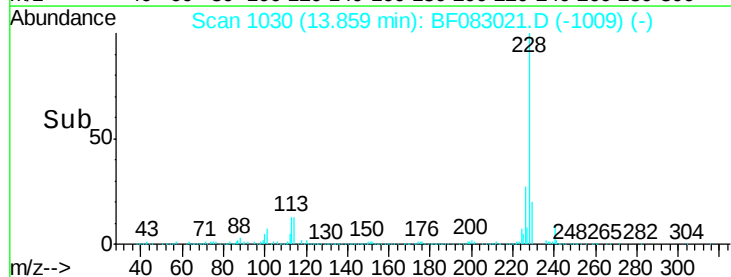
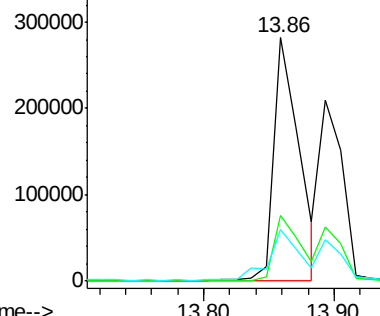
229 21.0 16.3 24.5



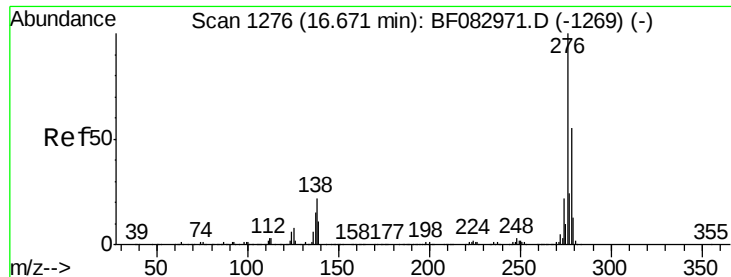
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



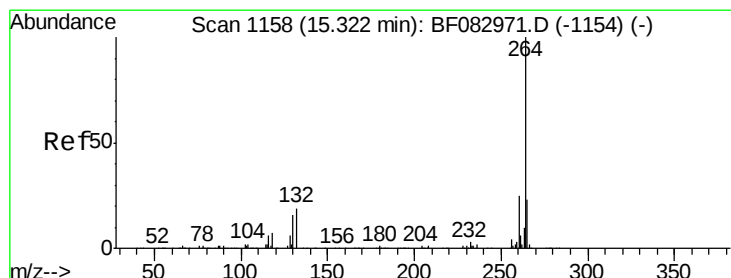
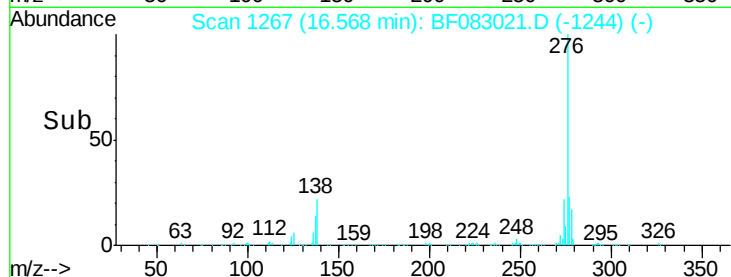
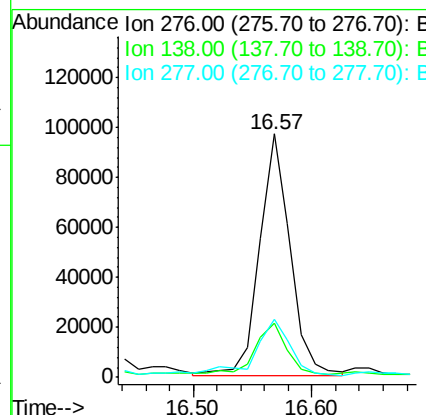
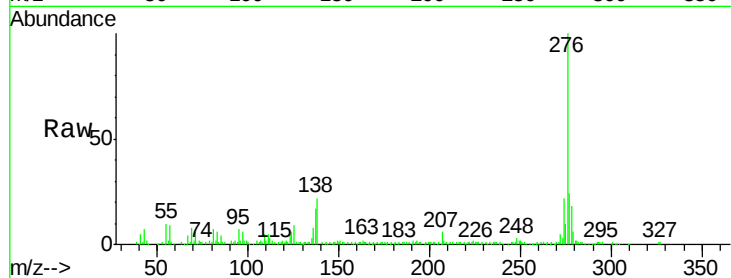
Time-->



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 7.32 ng
 RT: 16.57 min Scan# 1267
 Delta R.T. -0.03 min
 Lab File: BF083021.D
 Acq: 18 Nov 2015 21:27

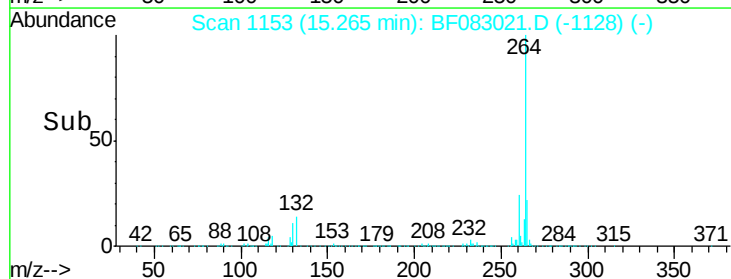
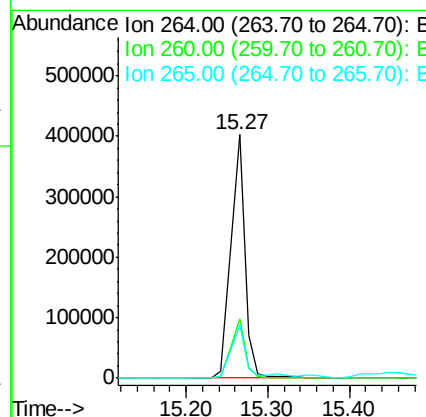
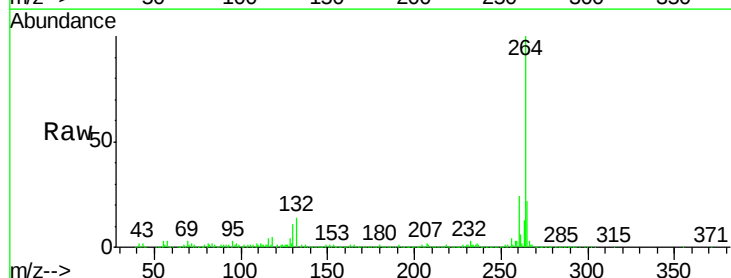
Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY SF_002

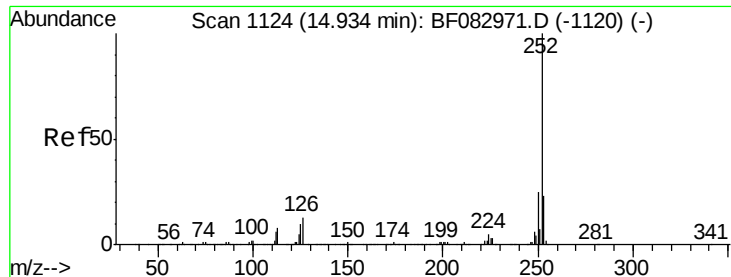
Tot Ion	Ratio	Lower	Upper
276	100		
138	23.4	15.3	22.9#
277	27.3	20.2	30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.27 min Scan# 1153
 Delta R.T. -0.01 min
 Lab File: BF083021.D
 Acq: 18 Nov 2015 21:27

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.8	29.6
265	21.8	17.4	26.0





#87

Benzo(b)fluoranthene

Concen: 15.66 ng

RT: 14.88 min Scan# 1119

Delta R.T. -0.02 min

Lab File: BF083021.D

Acq: 18 Nov 2015 21:27

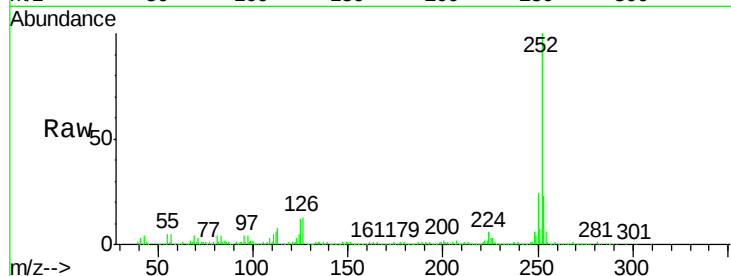
Instrument :

BNA_F

ClientSampleId :

LIBERTY SF_002

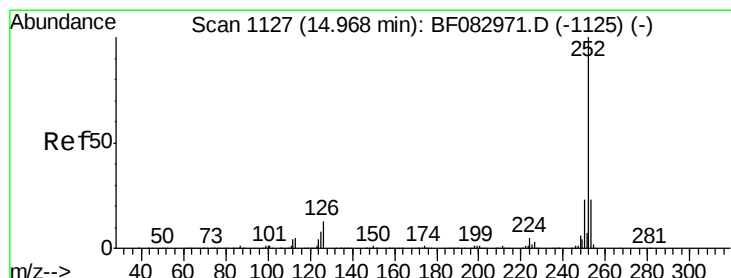
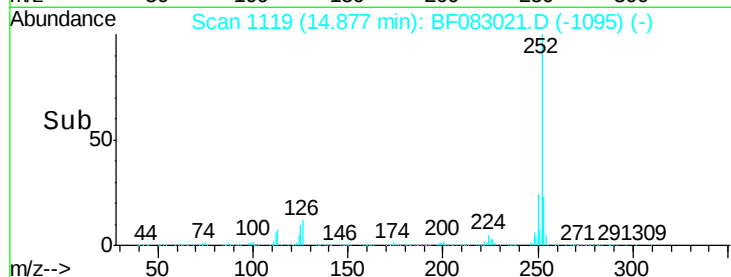
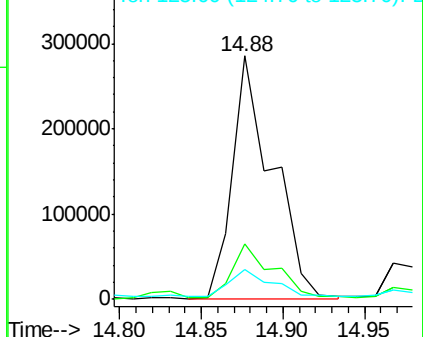
Tot Ion:252	Resp:	480202
Ion Ratio	Lower	Upper
252	100	
253	23.0	17.8 26.8
125	12.0	5.4 8.2#



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: 17.65 ng

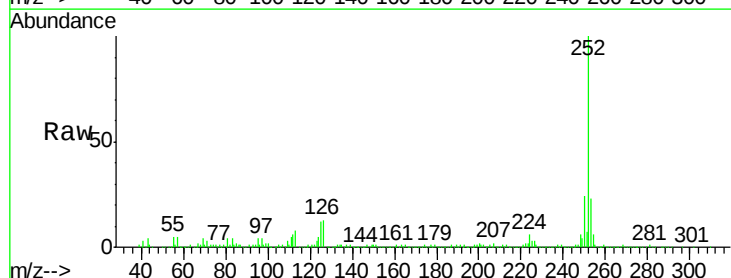
RT: 14.88 min Scan# 1119

Delta R.T. -0.05 min

Lab File: BF083021.D

Acq: 18 Nov 2015 21:27

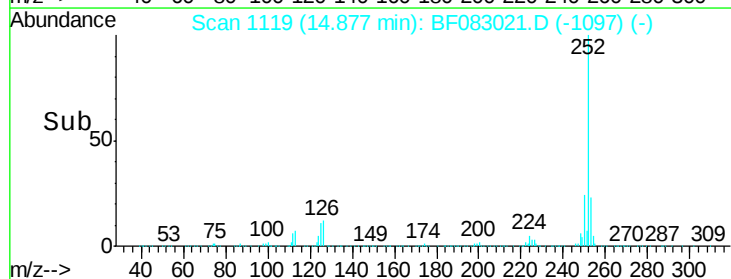
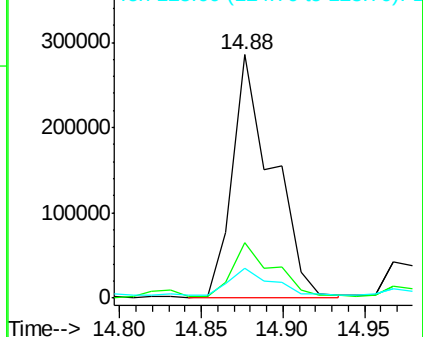
Tgt Ion:252	Resp:	480202
Ion Ratio	Lower	Upper
252	100	
253	23.0	17.9 26.9
125	12.0	3.5 5.3#

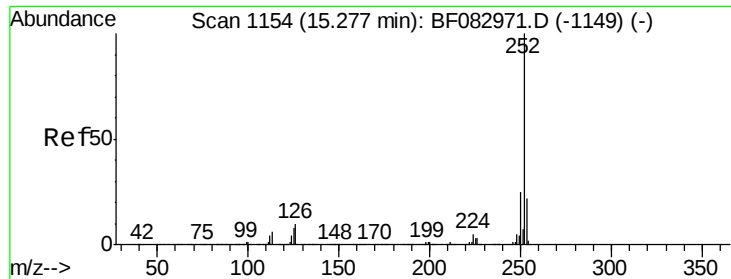


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 10.07 ng

RT: 15.21 min Scan# 1148

Delta R.T. -0.02 min

Lab File: BF083021.D

Acq: 18 Nov 2015 21:27

Instrument :

BNA_F

ClientSampleId :

LIBERTY SF_002

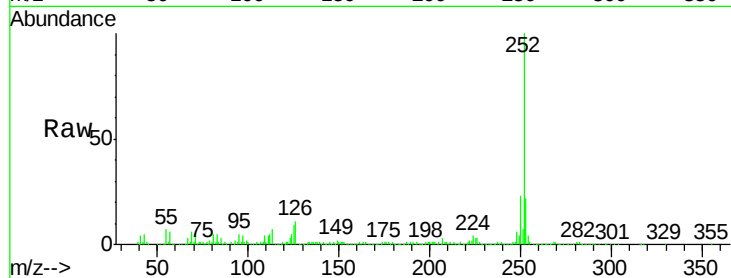
Tot Ion:252 Resp: 267565

Ion Ratio Lower Upper

252 100

253 21.6 17.3 25.9

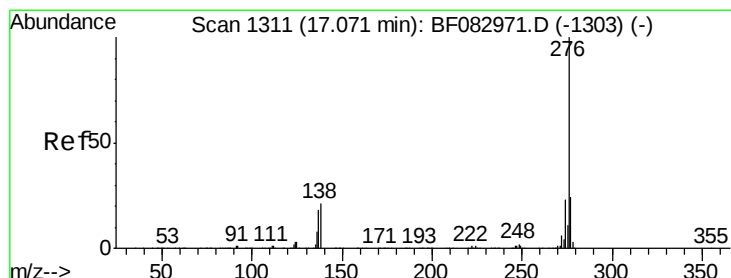
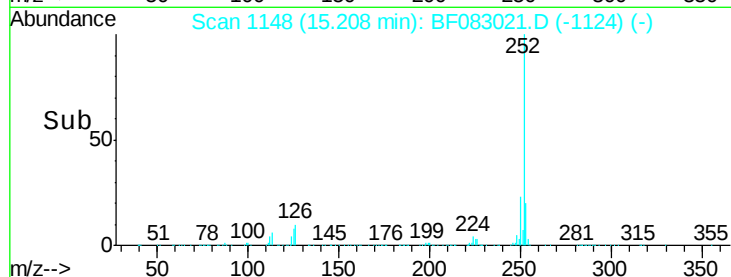
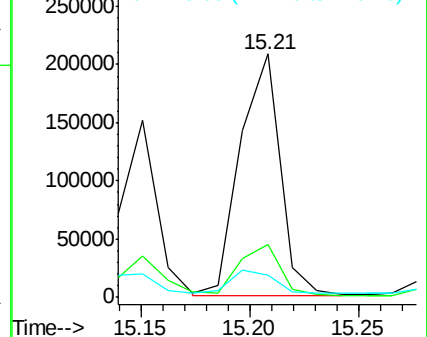
125 9.3 7.1 10.7



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



#91

Benzo(g,h,i)perylene

Concen: 7.07 ng

RT: 16.96 min Scan# 1301

Delta R.T. -0.05 min

Lab File: BF083021.D

Acq: 18 Nov 2015 21:27

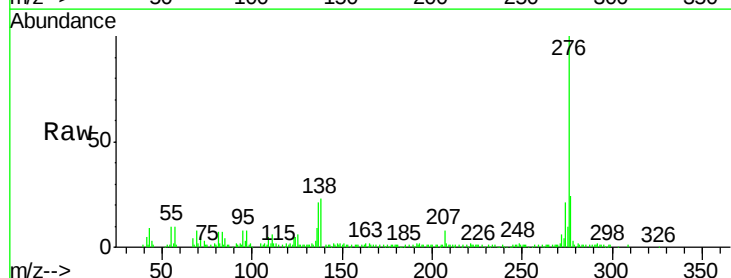
Tgt Ion:276 Resp: 152362

Ion Ratio Lower Upper

276 100

277 23.8 19.2 28.8

138 23.2 13.1 19.7#



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

