

Data Path : Z:\HPCHEM1\BNA F\DATA\BF111815\
 Data File : BF083022.D
 Acq On : 18 Nov 2015 21:56
 Operator : UM/IZ
 Sample : G4412-07
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Nov 19 01:52:06 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	145457	20.00	ng	-0.01
21) Naphthalene-d8	8.02	136	572690	20.00	ng	0.00
38) Acenaphthene-d10	9.77	164	270726	20.00	ng	-0.01
63) Phenanthrene-d10	11.24	188	430223	20.00	ng	-0.01
75) Chrysene-d12	13.88	240	316999	20.00	ng	-0.01
86) Perylene-d12	15.26	264	300362	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	1065904	114.02	ng	0.00
7) Phenol-d6	6.38	99	1324030	106.53	ng	-0.01
23) Nitrobenzene-d5	7.30	82	1027052	78.03	ng	-0.01
41) 2,4,6-Tribromophenol	10.56	330	283275	91.26	ng	-0.01
44) 2-Fluorobiphenyl	9.10	172	1476691	78.18	ng	0.00
78) Terphenyl-d14	12.83	244	1123756	84.08	ng	-0.01

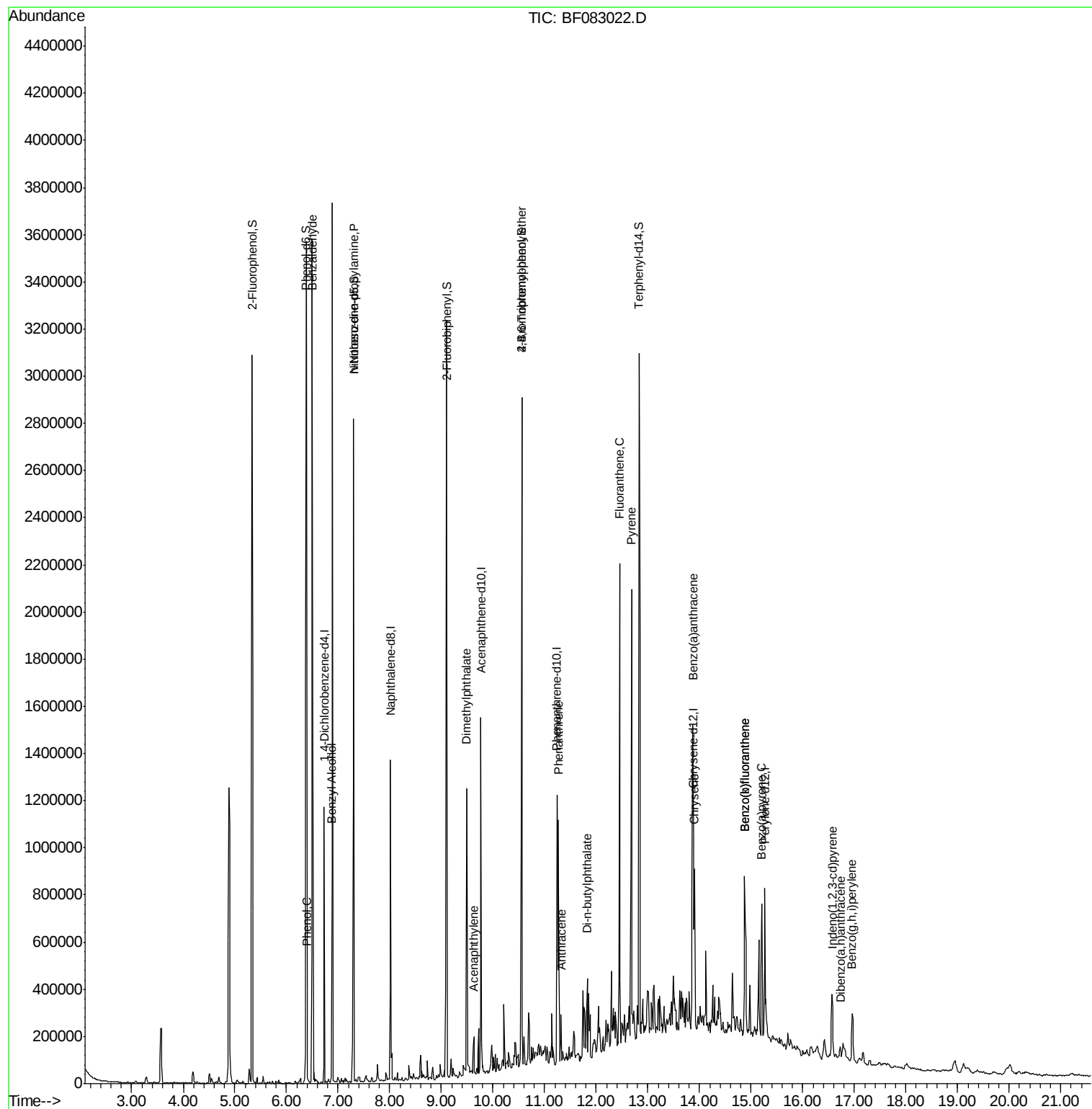
Target Compounds				Qvalue		
9) Benzaldehyde	6.50	77	26390	3.84	ng	84
10) Phenol	6.40	94	35620	2.53	ng	89
15) Benzyl Alcohol	6.88	79	55923	5.12	ng	98
19) n-Nitroso-di-n-propylamine	7.30	70	146017	15.98	ng	# 71
48) Acenaphthylene	9.63	152	90677	3.19	ng	96
49) Dimethylphthalate	9.49	163	412998	18.62	ng	98
66) 4-Bromophenyl-phenylether	10.56	248	21254	4.10	ng	# 1
70) Phenanthrene	11.26	178	429330	17.18	ng	95
71) Anthracene	11.32	178	79951	3.04	ng	97
73) Di-n-butylphthalate	11.82	149	170790	5.95	ng	# 95
74) Fluoranthene	12.45	202	770395	28.73	ng	99
77) Pylene	12.68	202	784007	36.01	ng	97
80) Benzo(a)anthracene	13.87	228	360809	18.20	ng	93
82) Chrysene	13.90	228	317515	17.49	ng	96
85) Indeno(1,2,3-cd)pyrene	16.57	276	171607	10.97	ng	97
87) Benzo(b)fluoranthene	14.88	252	493787	25.61	ng	# 97
88) Benzo(k)fluoranthene	14.88	252	493787	28.87	ng	# 96
89) Benzo(a)pyrene	15.21	252	256686	15.37	ng	98
90) Dibenzo(a,h)anthracene	16.73	278	33897	2.40	ng	93
91) Benzo(a,h,i)perylene	16.96	276	170085	12.55	ng	# 96

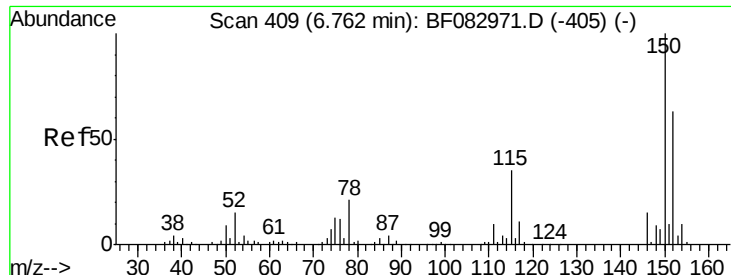
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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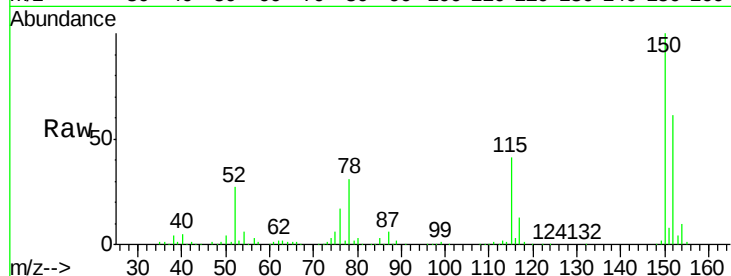


#1

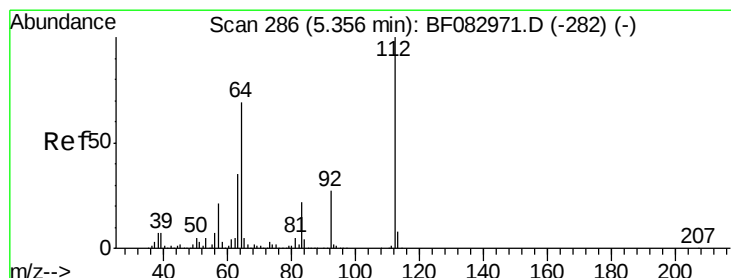
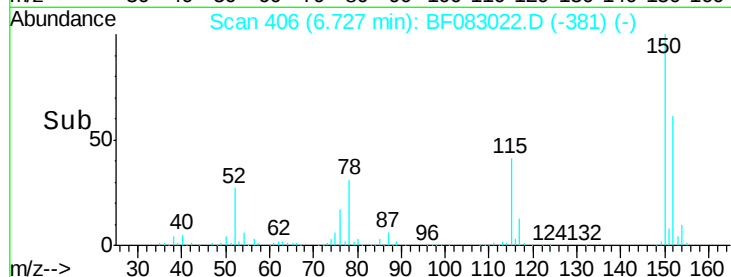
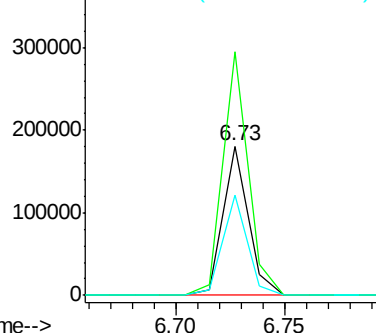
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.73 min Scan# 406
Delta R.T. -0.01 min
Lab File: BF083022.D
Acq: 18 Nov 2015 21:56

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 145457
Ion Ratio Lower Upper
152 100
150 163.0 127.0 190.4
115 66.9 47.0 70.6



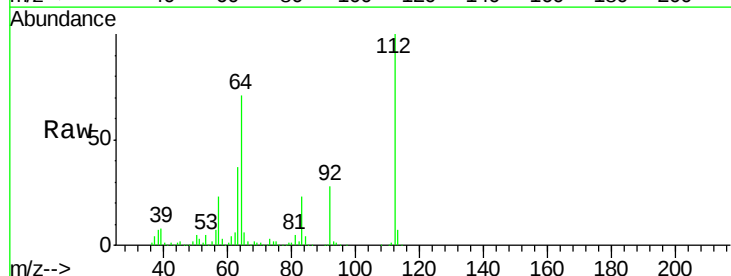
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



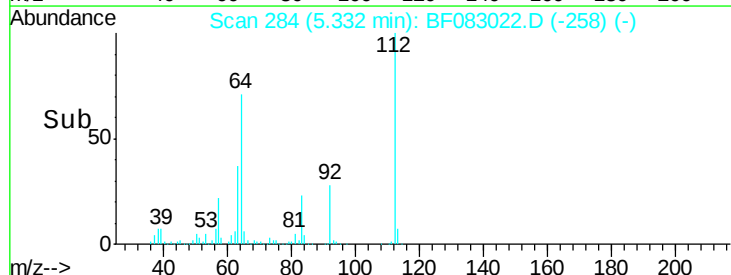
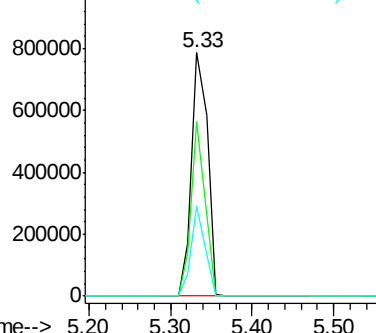
#5

2-Fluorophenol
Concen: 114.02 ng
RT: 5.33 min Scan# 284
Delta R.T. -0.00 min
Lab File: BF083022.D
Acq: 18 Nov 2015 21:56

Tgt Ion:112 Resp: 1065904
Ion Ratio Lower Upper
112 100
64 71.4 48.9 73.3
63 36.8 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: 106.53 ng

RT: 6.38 min Scan# 376

Delta R.T. -0.01 min

Lab File: BF083022.D

Acq: 18 Nov 2015 21:56

Instrument :

BNA_F

ClientSampleId :

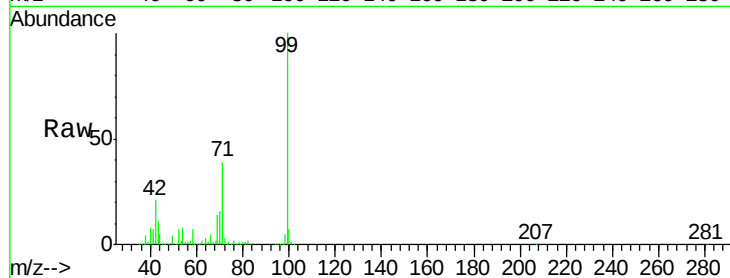
Tot Ion: 99 Resp: 1324030

Ion Ratio Lower Upper

99 100

42 20.7 19.2 28.8

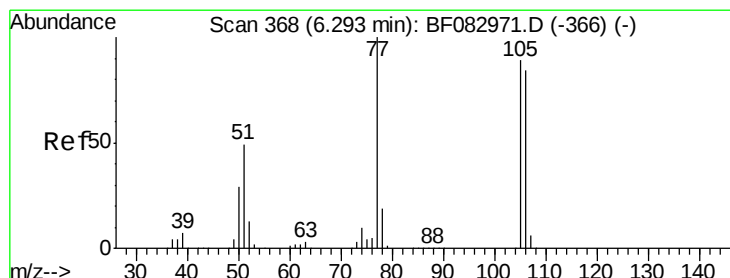
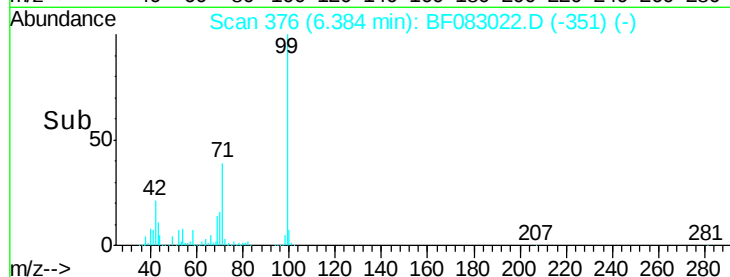
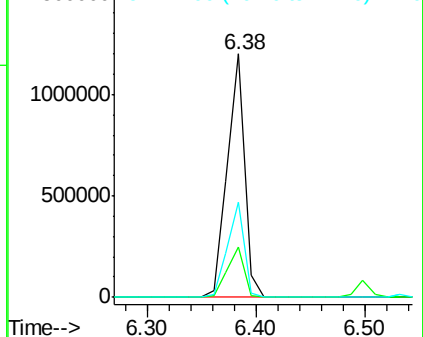
71 39.1 35.0 52.4



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



#9

Benzaldehyde

Concen: 3.84 ng

RT: 6.50 min Scan# 386

Delta R.T. 0.23 min

Lab File: BF083022.D

Acq: 18 Nov 2015 21:56

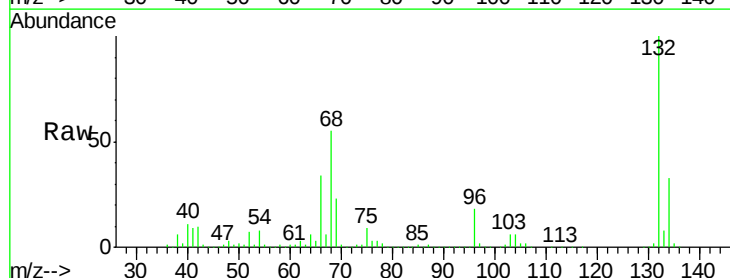
Tgt Ion: 77 Resp: 26390

Ion Ratio Lower Upper

77 100

105 71.8 63.5 103.5

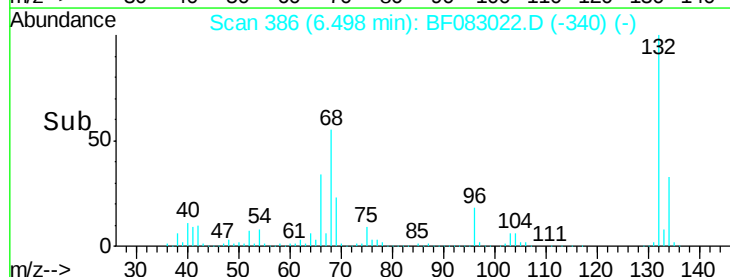
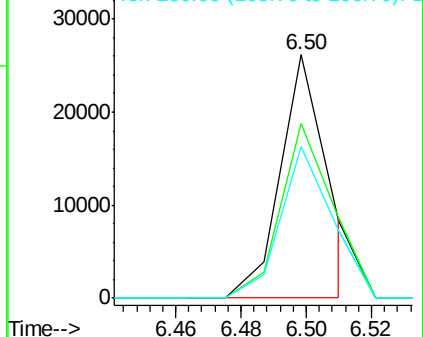
106 62.2 59.3 99.3

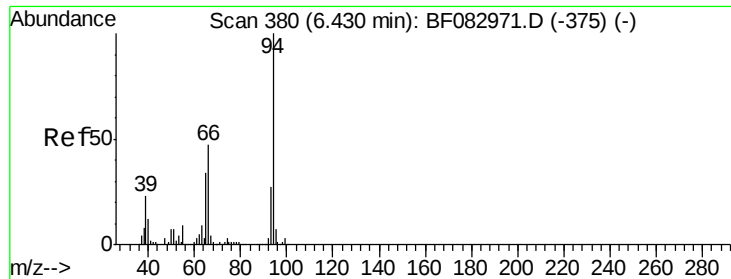


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 2.53 ng

RT: 6.40 min Scan# 377

Delta R.T. -0.01 min

Lab File: BF083022.D

Acq: 18 Nov 2015 21:56

Instrument :

BNA_F

ClientSampleId :

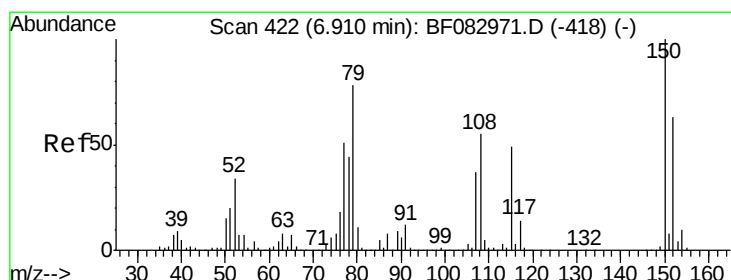
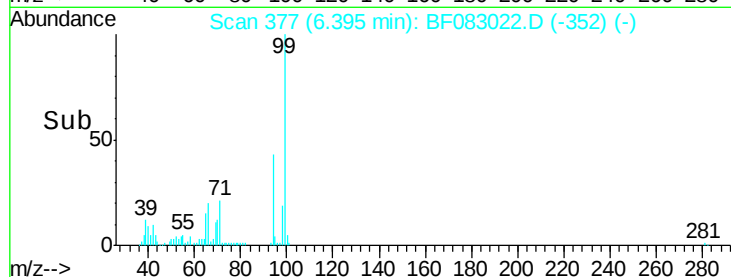
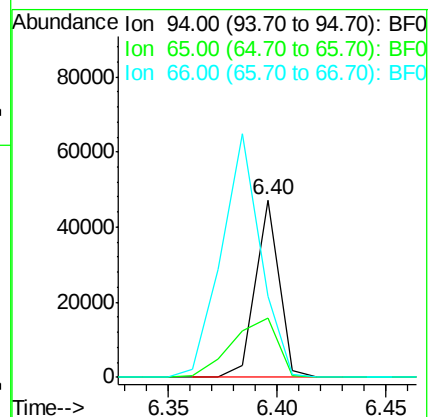
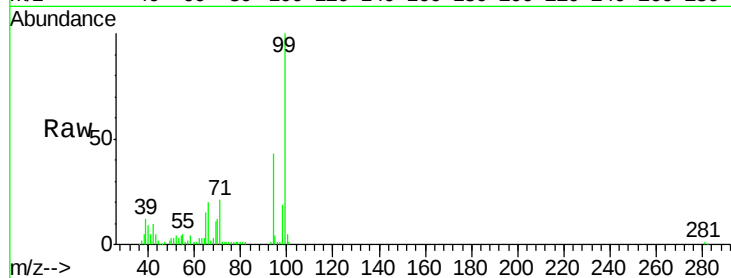
Tot Ion: 94 Resp: 35620

Ion Ratio Lower Upper

94 100

65 33.8 18.9 58.9

66 46.0 34.9 74.9



#15

Benzyl Alcohol

Concen: 5.12 ng

RT: 6.88 min Scan# 419

Delta R.T. -0.01 min

Lab File: BF083022.D

Acq: 18 Nov 2015 21:56

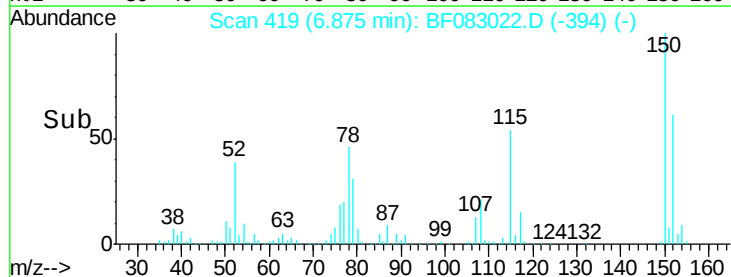
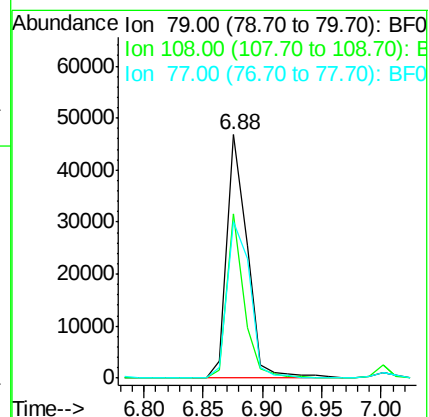
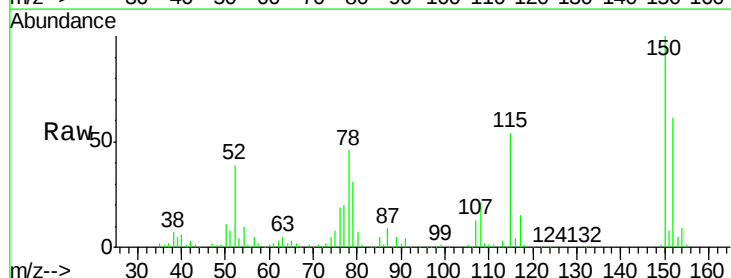
Tgt Ion: 79 Resp: 55923

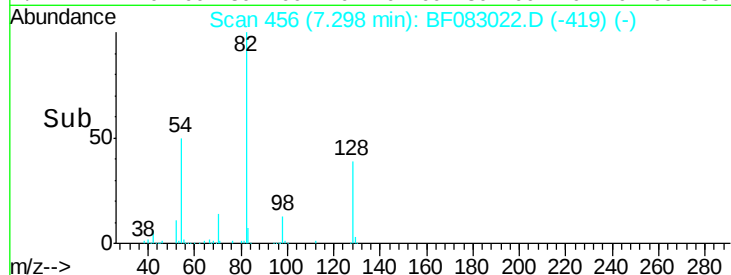
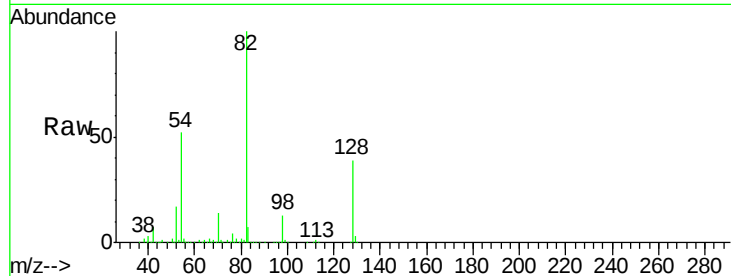
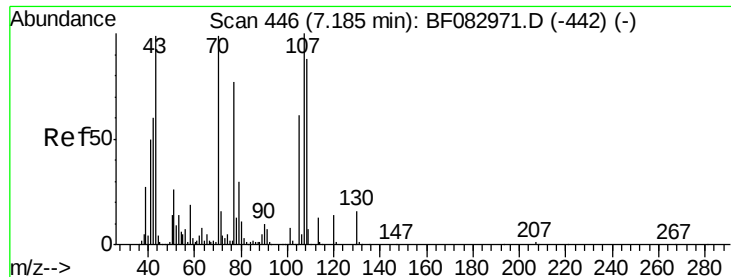
Ion Ratio Lower Upper

79 100

108 67.3 52.2 78.4

77 64.1 52.7 79.1

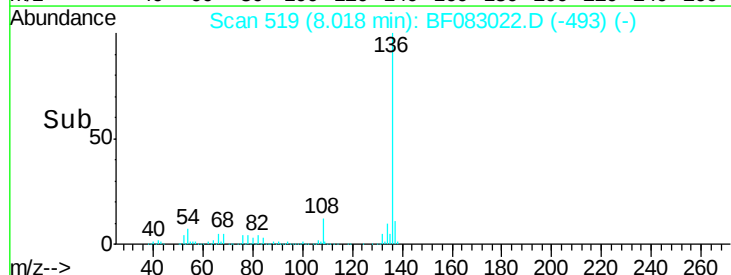
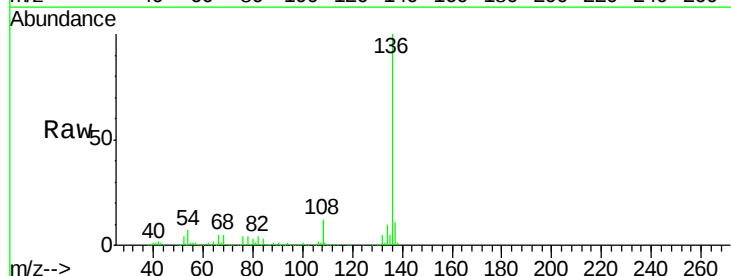
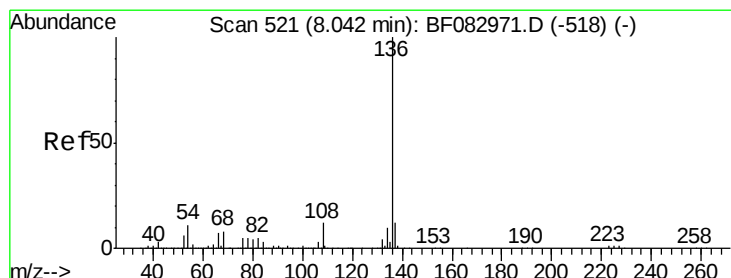
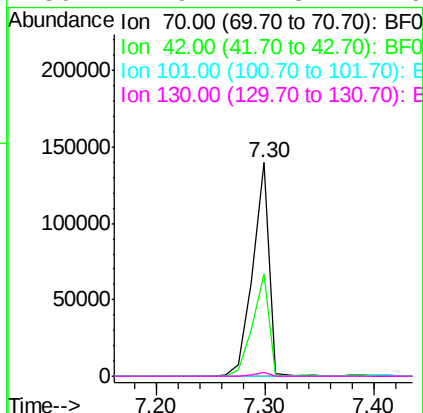




#19
n-Nitroso-di-n-propylamine
Concen: 15.98 ng
RT: 7.30 min Scan# 456
Delta R.T. 0.13 min
Lab File: BF083022.D
Acq: 18 Nov 2015 21:56

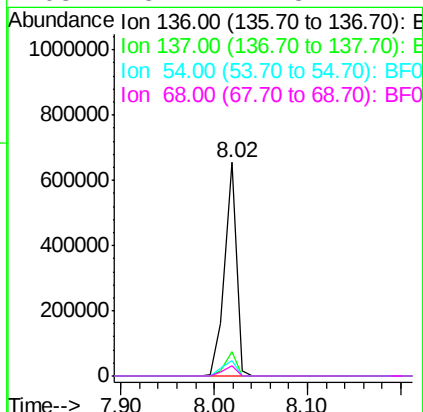
Instrument :
BNA_F
ClientSampleId :

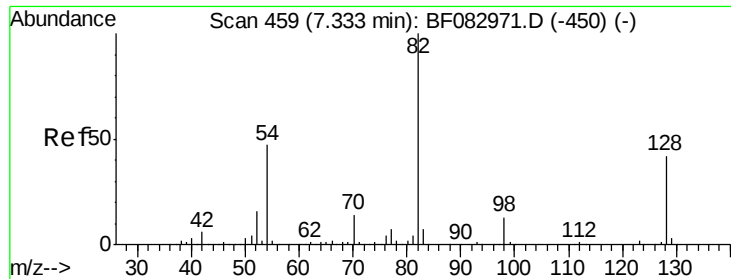
Tot Ion	Ratio	Lower	Upper
70	100		
42	47.7	57.7	86.5#
101	0.0	7.0	10.6#
130	1.9	11.8	17.6#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.02 min Scan# 519
Delta R.T. -0.00 min
Lab File: BF083022.D
Acq: 18 Nov 2015 21:56

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	7.4	9.1	13.7#
68	5.1	4.8	7.2

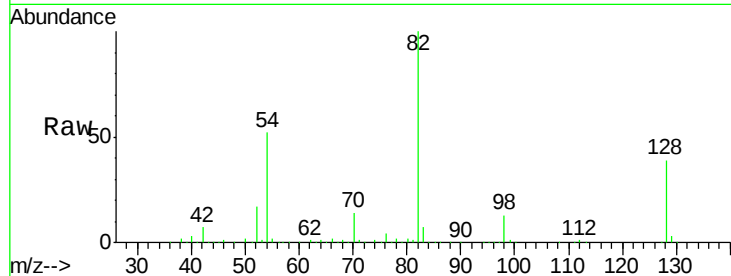




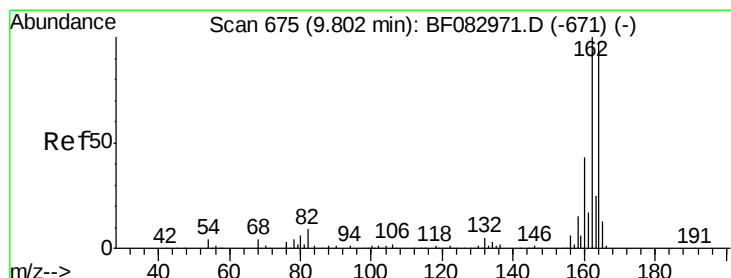
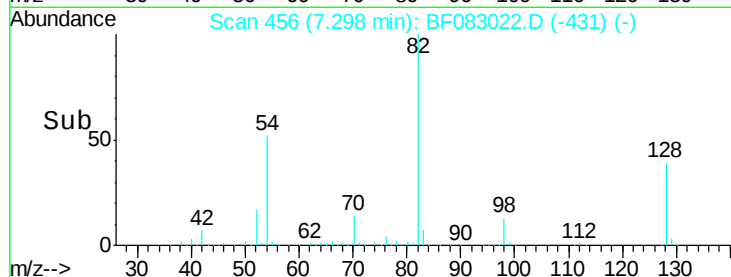
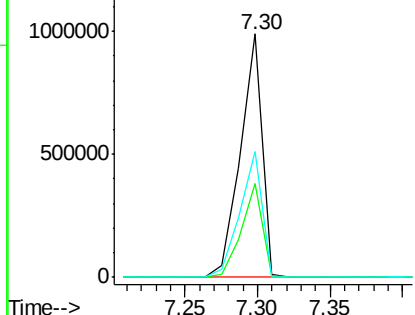
#23
Nitrobenzene-d5
Concen: 78.03 ng
RT: 7.30 min Scan# 456
Delta R.T. -0.01 min
Lab File: BF083022.D
Acq: 18 Nov 2015 21:56

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 1027052
Ion Ratio Lower Upper
82 100
128 38.5 26.8 40.2
54 51.7 45.7 68.5

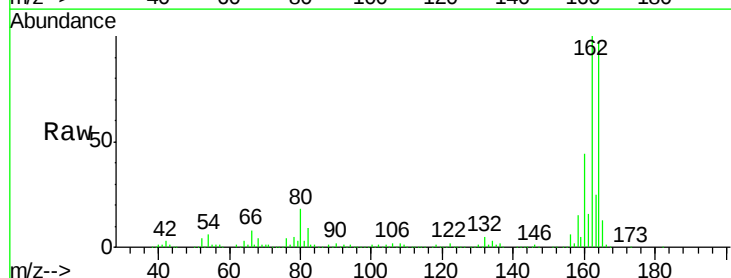


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

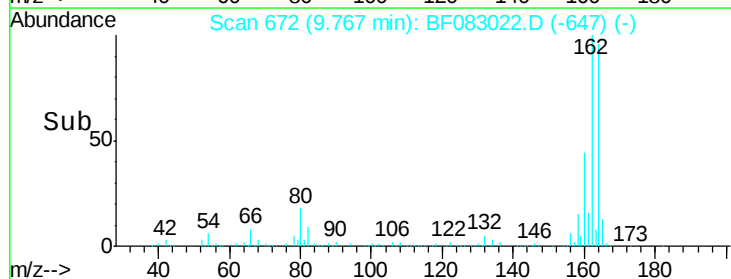
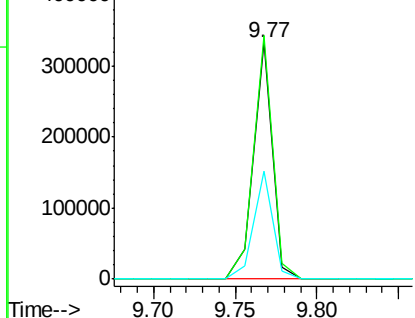


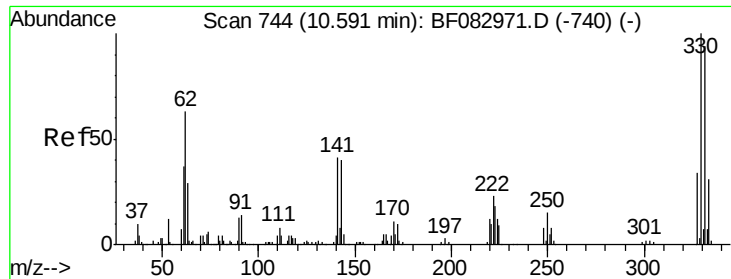
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.77 min Scan# 672
Delta R.T. -0.01 min
Lab File: BF083022.D
Acq: 18 Nov 2015 21:56

Tgt Ion:164 Resp: 270726
Ion Ratio Lower Upper
164 100
162 102.7 84.9 127.3
160 45.3 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

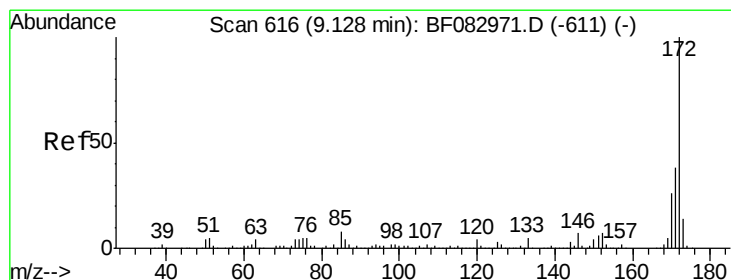
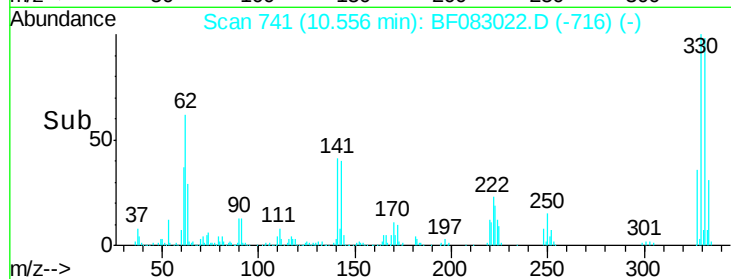
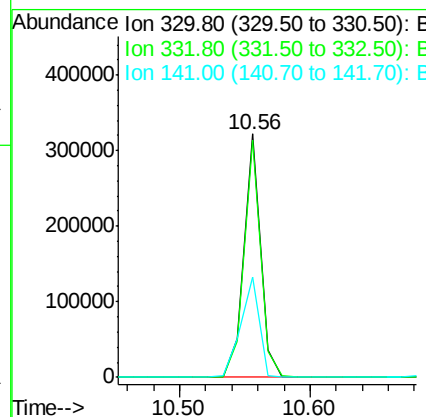
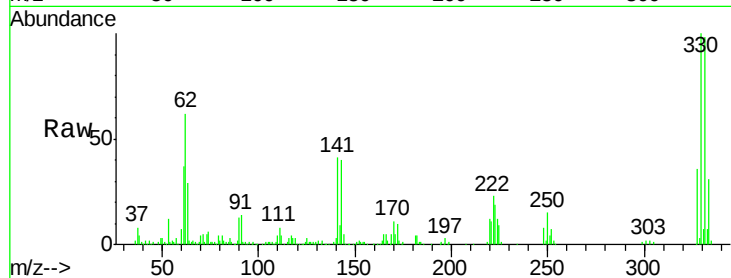




#41
 2,4,6-Tribromophenol
 Concen: 91.26 ng
 RT: 10.56 min Scan# 741
 Delta R.T. -0.01 min
 Lab File: BF083022.D
 Acq: 18 Nov 2015 21:56

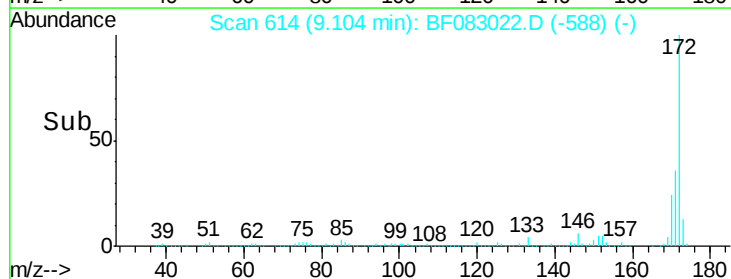
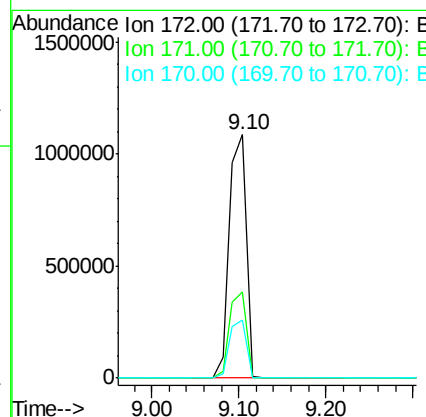
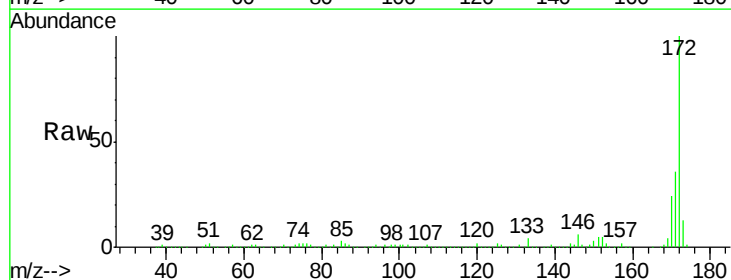
Instrument :
 BNA_F
 ClientSampleId :

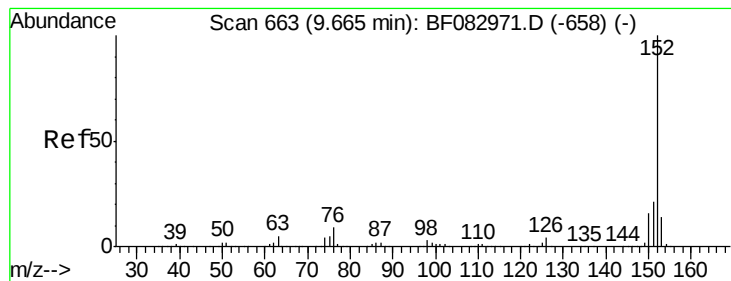
Tot Ion	Ratio	Lower	Upper
330	100		
332	97.2	76.6	114.8
141	46.1	41.2	61.8



#44
 2-Fluorobiphenyl
 Concen: 78.18 ng
 RT: 9.10 min Scan# 614
 Delta R.T. -0.00 min
 Lab File: BF083022.D
 Acq: 18 Nov 2015 21:56

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	30.8	46.2
170	24.0	21.2	31.8





#48

Acenaphthylene

Concen: 3.19 ng

RT: 9.63 min Scan# 660

Delta R.T. -0.01 min

Lab File: BF083022.D

Acq: 18 Nov 2015 21:56

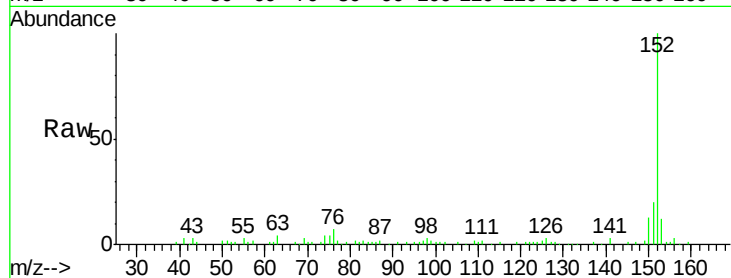
Instrument :

BNA_F

ClientSampled :

Tot Ion:152 Resp: 90677

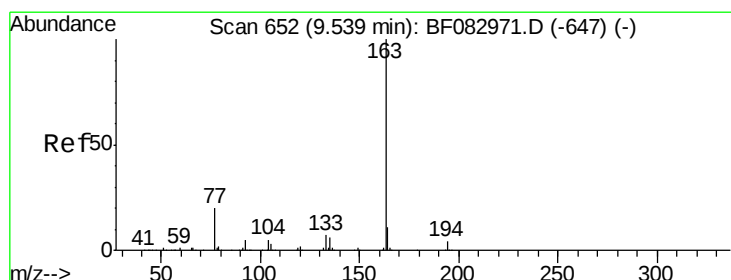
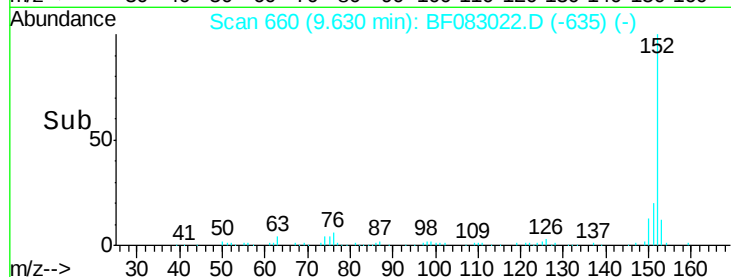
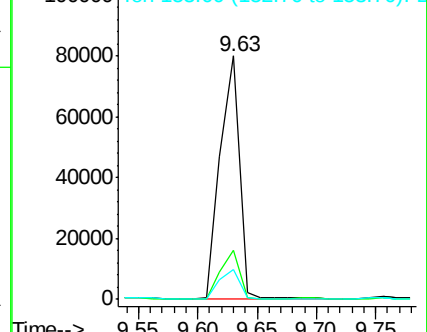
Ion	Ratio	Lower	Upper
152	100		
151	20.1	17.3	25.9
153	12.3	11.3	16.9



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 18.62 ng

RT: 9.49 min Scan# 648

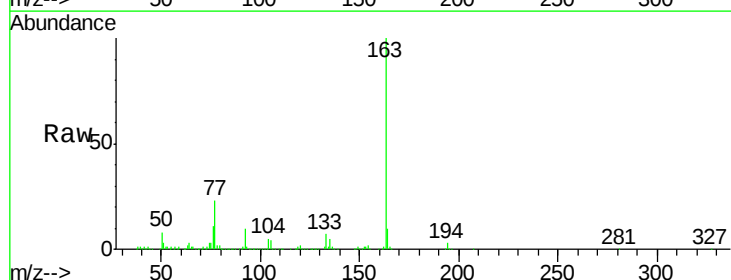
Delta R.T. -0.02 min

Lab File: BF083022.D

Acq: 18 Nov 2015 21:56

Tgt Ion:163 Resp: 412998

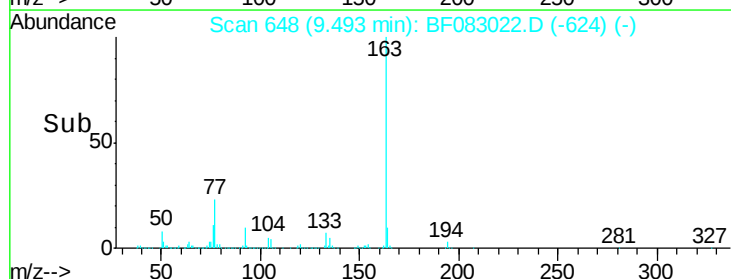
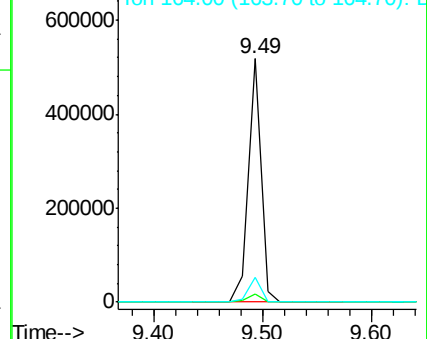
Ion	Ratio	Lower	Upper
163	100		
194	3.5	2.6	4.0
164	10.0	8.7	13.1

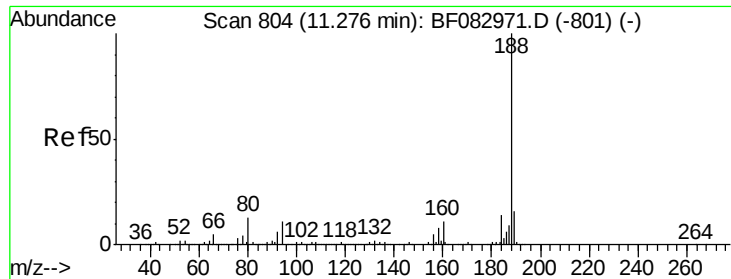


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

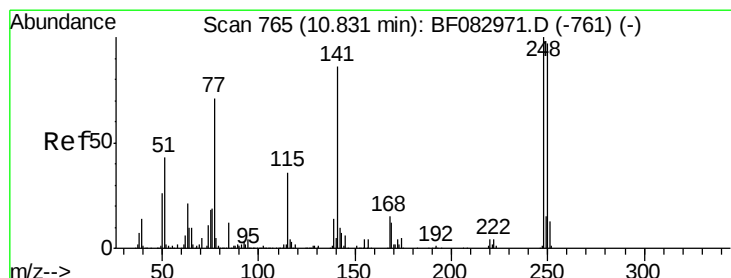
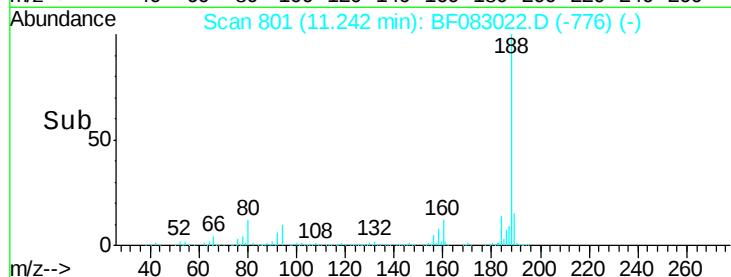
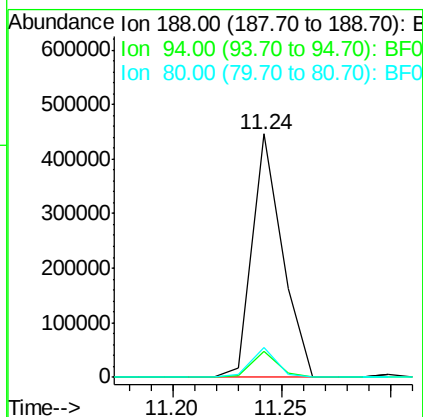
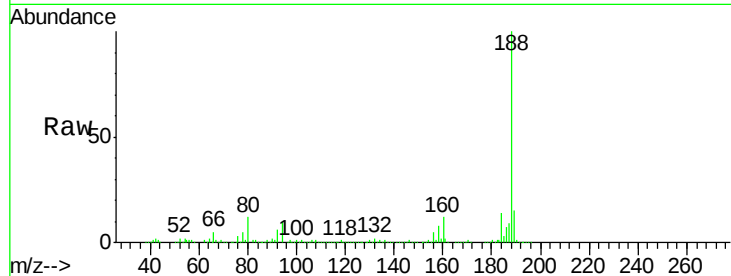




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.24 min Scan# 801
Delta R.T. -0.01 min
Lab File: BF083022.D
Acq: 18 Nov 2015 21:56

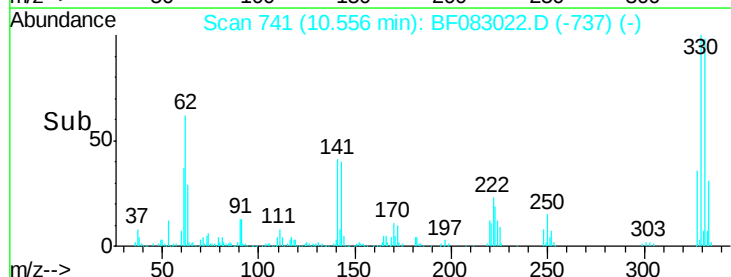
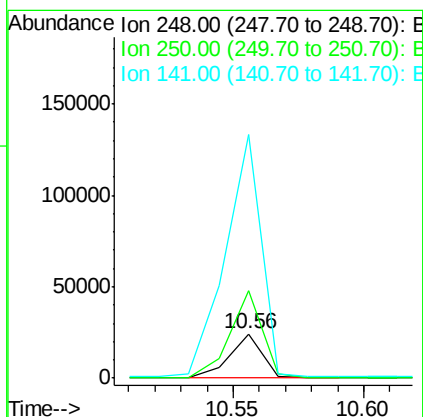
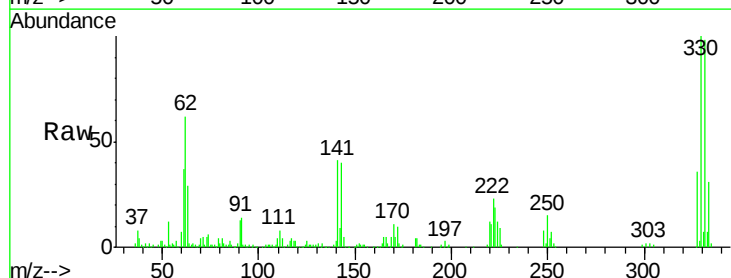
Instrument :
BNA_F
ClientSampled :

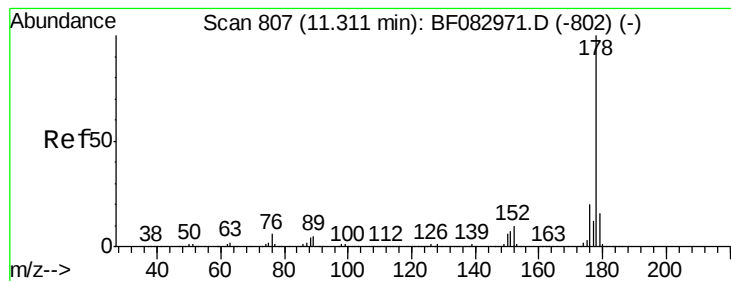
Tot Ion:188 Resp: 430223
Ion Ratio Lower Upper
188 100
94 10.5 6.1 9.1#
80 12.1 7.0 10.6#



#66
4-Bromophenyl-phenylether
Concen: 4.10 ng
RT: 10.56 min Scan# 741
Delta R.T. -0.25 min
Lab File: BF083022.D
Acq: 18 Nov 2015 21:56

Tgt Ion:248 Resp: 21254
Ion Ratio Lower Upper
248 100
250 195.0 79.4 119.2#
141 546.6 36.3 54.5#





#70

Phenanthrene

Concen: 17.18 ng

RT: 11.26 min Scan# 803

Delta R.T. -0.01 min

Lab File: BF083022.D

Acq: 18 Nov 2015 21:56

Instrument :

BNA_F

ClientSampled :

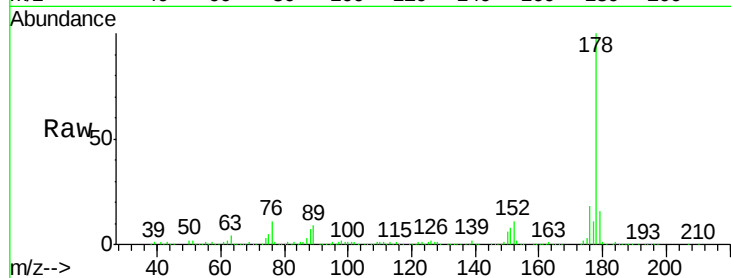
Tot Ion:178 Resp: 429330

Ion Ratio Lower Upper

178 100

176 18.3 17.0 25.4

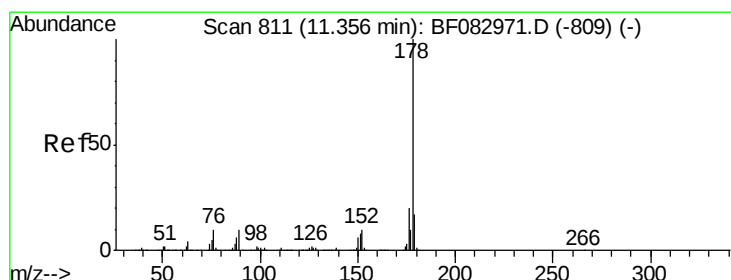
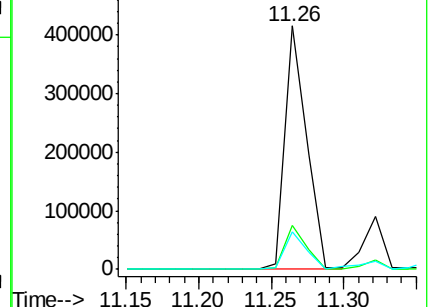
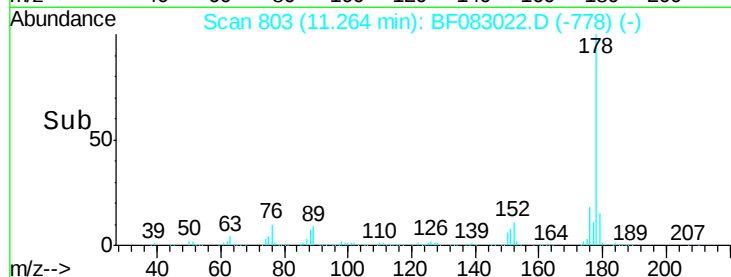
179 15.6 13.4 20.0



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: 3.04 ng

RT: 11.32 min Scan# 808

Delta R.T. -0.01 min

Lab File: BF083022.D

Acq: 18 Nov 2015 21:56

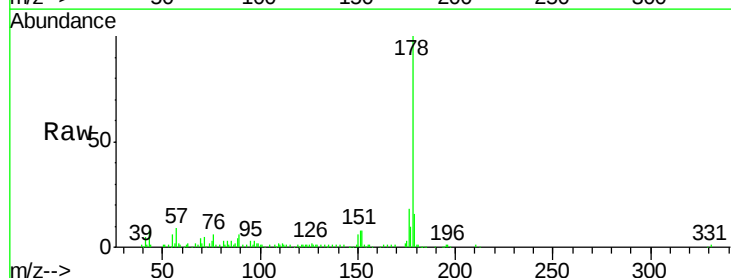
Tgt Ion:178 Resp: 79951

Ion Ratio Lower Upper

178 100

176 18.5 16.5 24.7

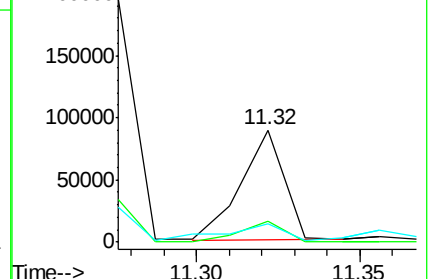
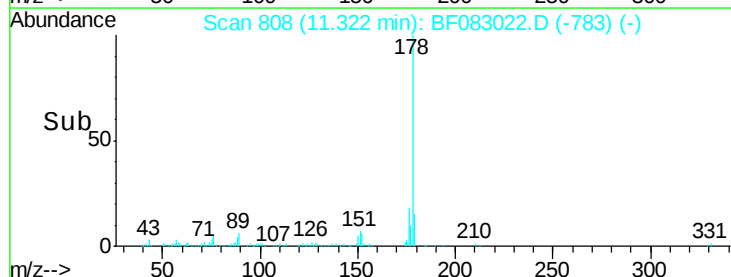
179 16.0 13.2 19.8

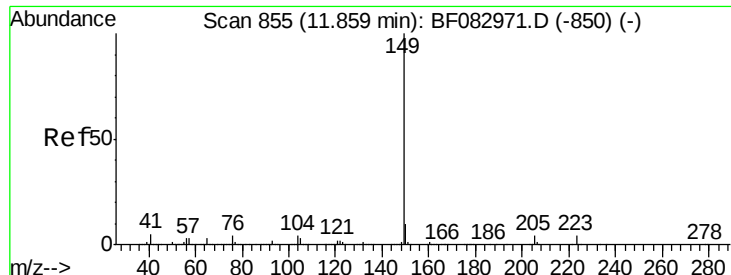


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

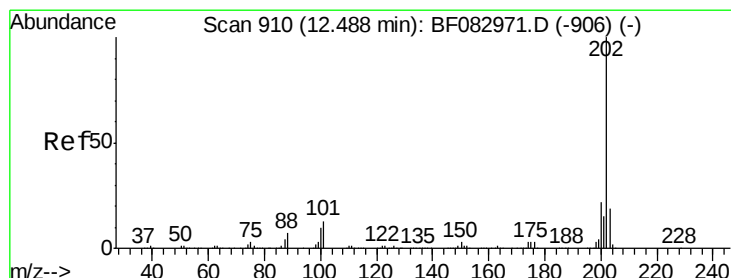
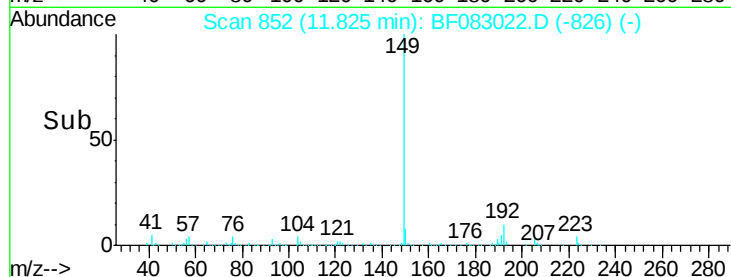
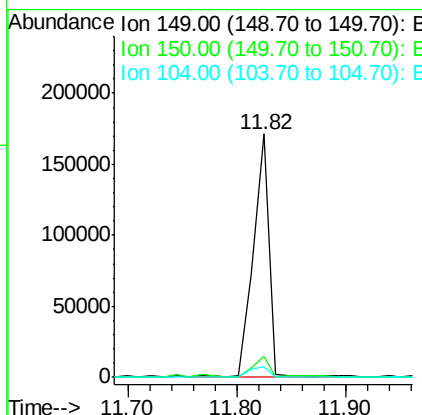
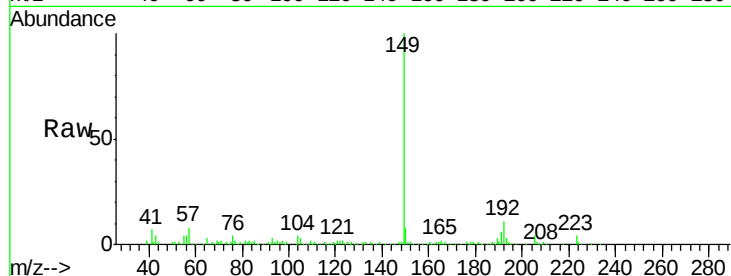




#73
Di-n-butylphthalate
Concen: 5.95 ng
RT: 11.82 min Scan# 852
Delta R.T. -0.00 min
Lab File: BF083022.D
Acq: 18 Nov 2015 21:56

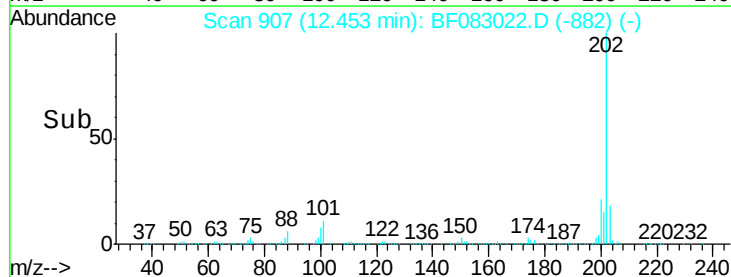
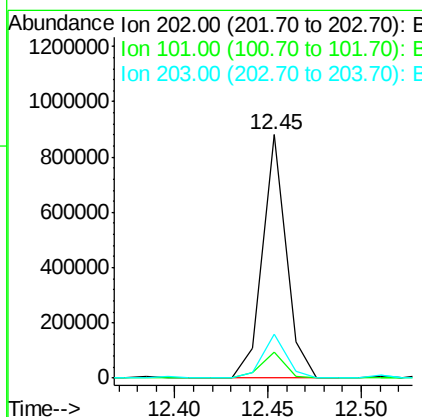
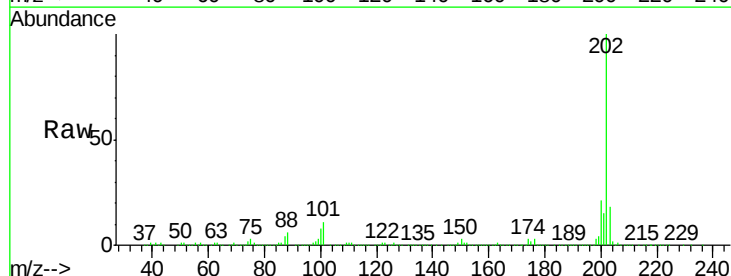
Instrument :
BNA_F
ClientSampleId :

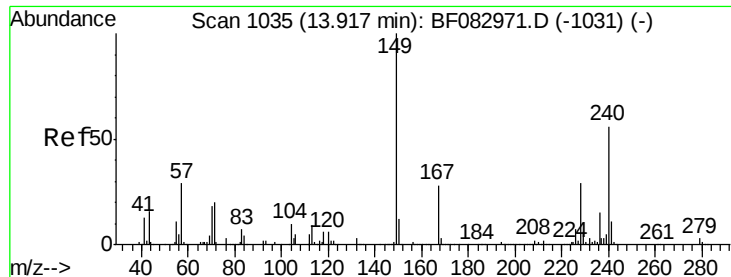
Tot Ion:149 Resp: 170790
Ion Ratio Lower Upper
149 100
150 8.5 8.1 12.1
104 4.1 5.2 7.8#



#74
Fluoranthene
Concen: 28.73 ng
RT: 12.45 min Scan# 907
Delta R.T. -0.01 min
Lab File: BF083022.D
Acq: 18 Nov 2015 21:56

Tgt Ion:202 Resp: 770395
Ion Ratio Lower Upper
202 100
101 10.7 0.0 30.5
203 18.2 0.0 38.5





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.88 min Scan# 1032

Delta R.T. -0.01 min

Lab File: BF083022.D

Acq: 18 Nov 2015 21:56

Instrument :

BNA_F

ClientSampleId :

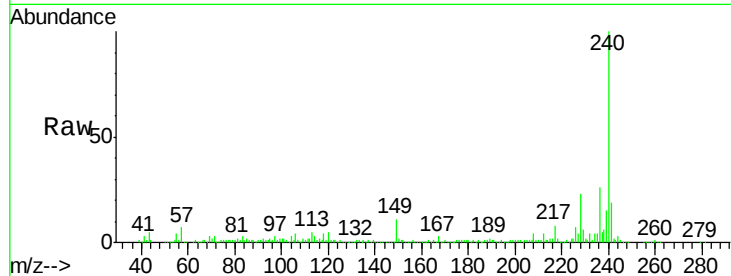
Tot Ion:240 Resp: 316999

Ion Ratio Lower Upper

240 100

120 5.3 10.9 16.3#

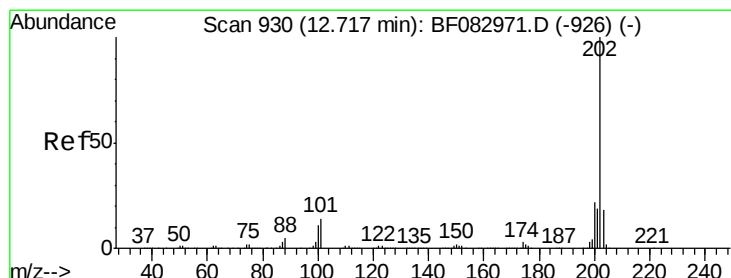
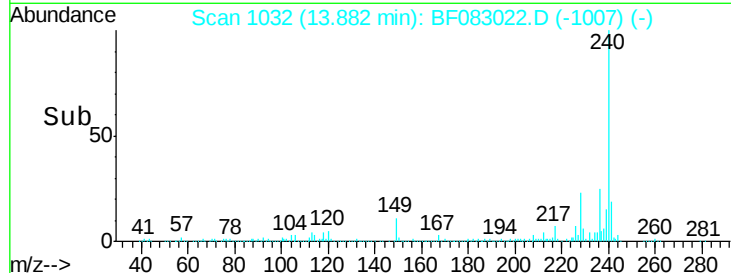
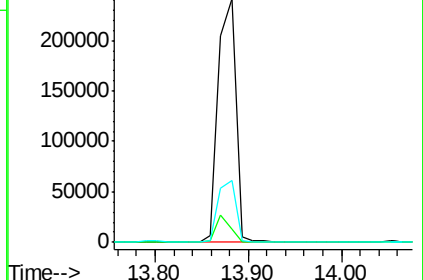
236 25.5 21.6 32.4



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

Pyrene

Concen: 36.01 ng

RT: 12.68 min Scan# 927

Delta R.T. -0.01 min

Lab File: BF083022.D

Acq: 18 Nov 2015 21:56

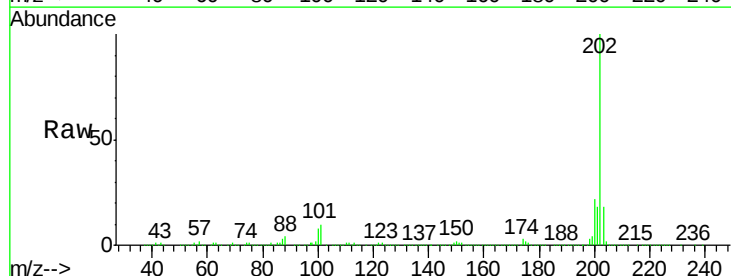
Tgt Ion:202 Resp: 784007

Ion Ratio Lower Upper

202 100

200 21.6 18.7 28.1

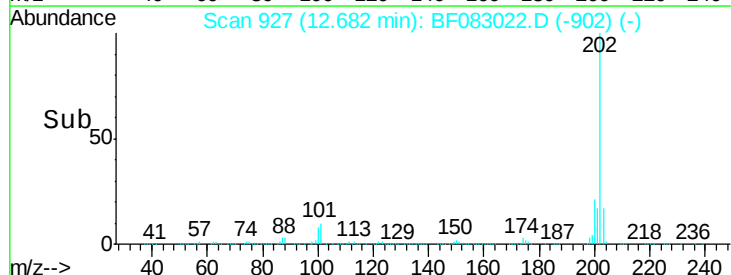
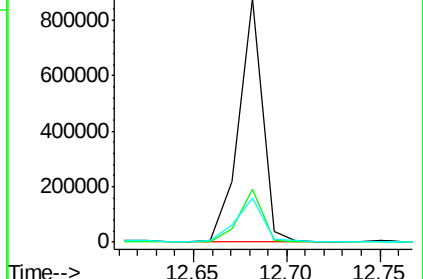
203 17.9 14.8 22.2

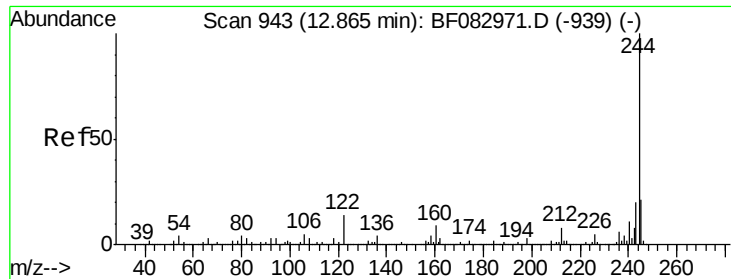


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 84.08 ng

RT: 12.83 min Scan# 940

Delta R.T. -0.01 min

Lab File: BF083022.D

Acq: 18 Nov 2015 21:56

Instrument :

BNA_F

ClientSampleId :

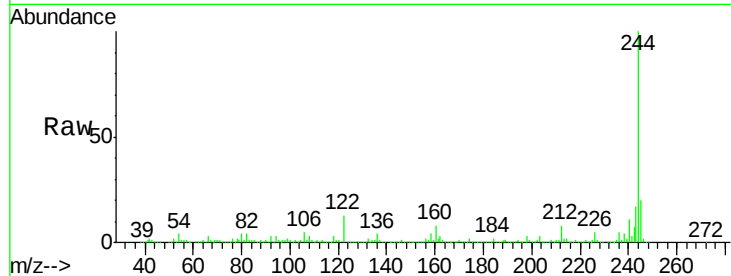
Tot Ion:244 Resp: 1123756

Ion Ratio Lower Upper

244 100

212 8.0 7.6 11.4

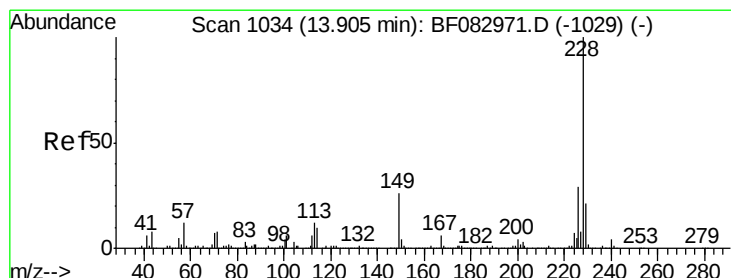
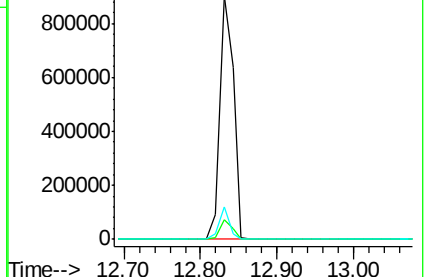
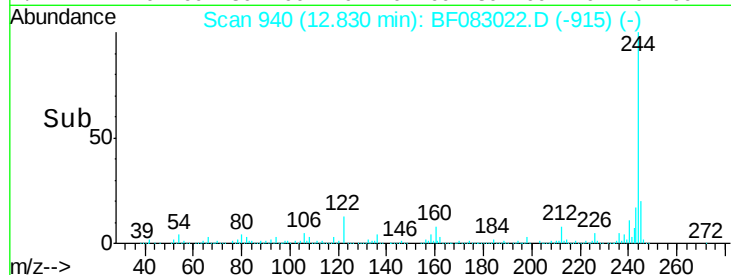
122 13.1 11.3 16.9



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: 18.20 ng

RT: 13.87 min Scan# 1031

Delta R.T. -0.00 min

Lab File: BF083022.D

Acq: 18 Nov 2015 21:56

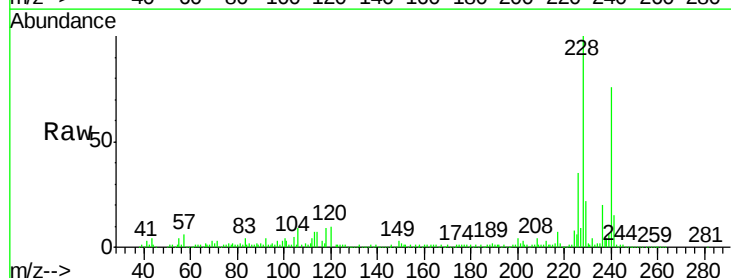
Tgt Ion:228 Resp: 360809

Ion Ratio Lower Upper

228 100

226 34.8 23.4 35.2

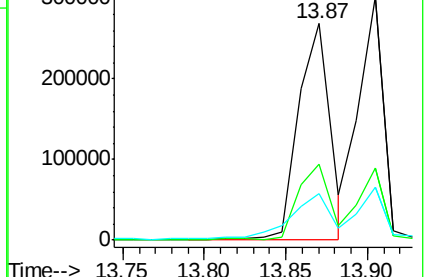
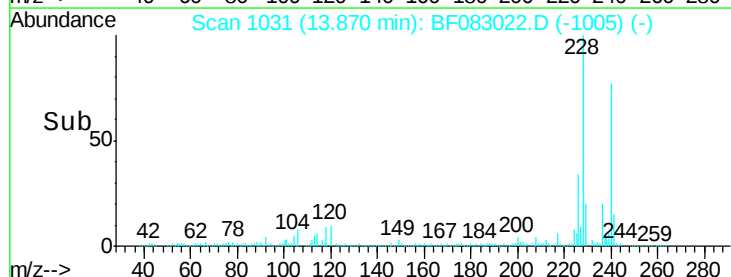
229 21.7 16.3 24.5

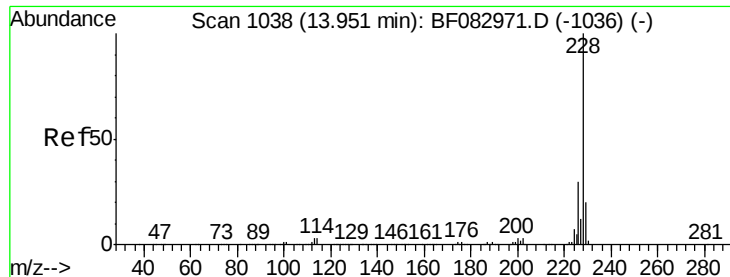


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

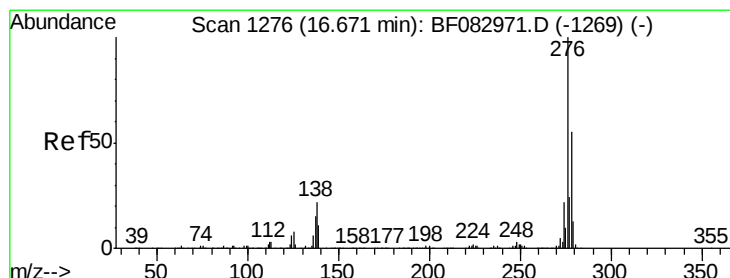
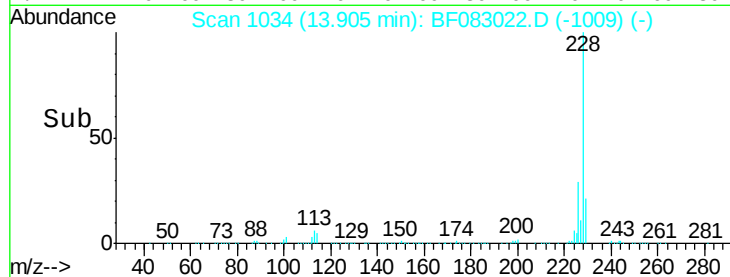
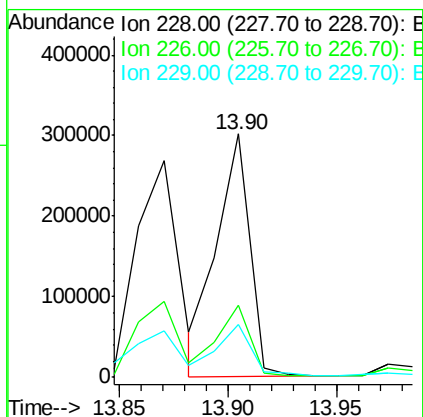
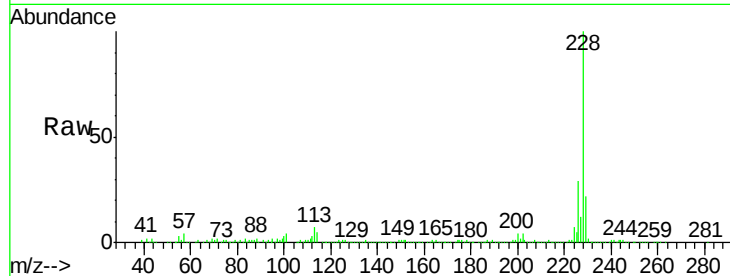




#82
Chrysene
Concen: 17.49 ng
RT: 13.90 min Scan# 1034
Delta R.T. -0.01 min
Lab File: BF083022.D
Acq: 18 Nov 2015 21:56

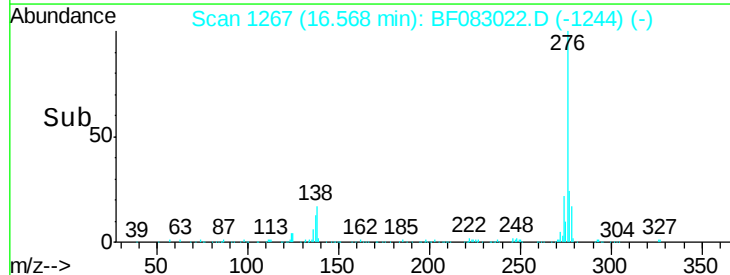
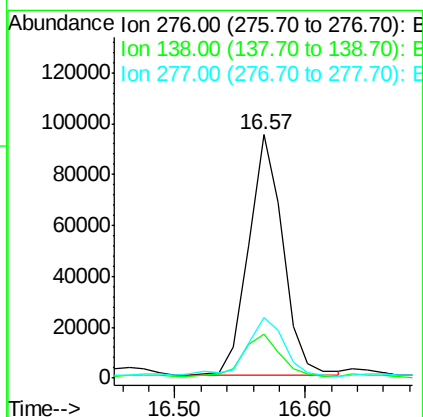
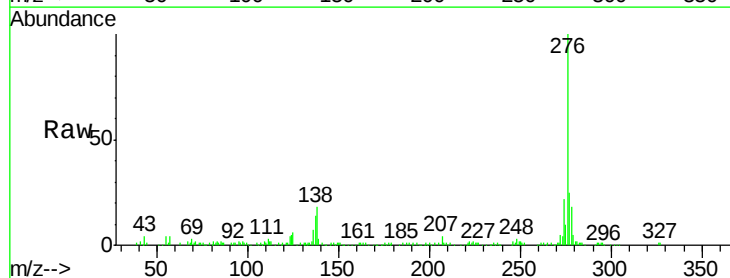
Instrument :
BNA_F
ClientSampleId :

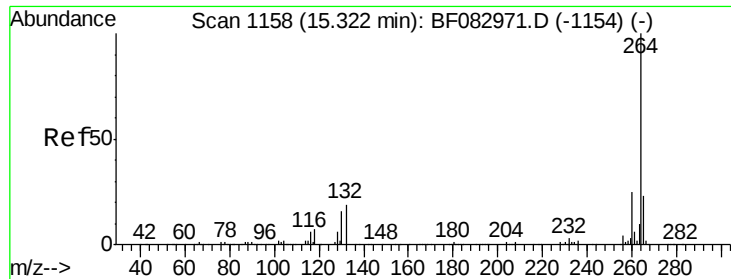
Tot Ion:228 Resp: 317515
Ion Ratio Lower Upper
228 100
226 29.5 25.5 38.3
229 21.9 16.3 24.5



#85
Indeno(1,2,3-cd)pyrene
Concen: 10.97 ng
RT: 16.57 min Scan# 1267
Delta R.T. -0.03 min
Lab File: BF083022.D
Acq: 18 Nov 2015 21:56

Tgt Ion:276 Resp: 171607
Ion Ratio Lower Upper
276 100
138 19.4 15.3 22.9
277 27.4 20.2 30.4

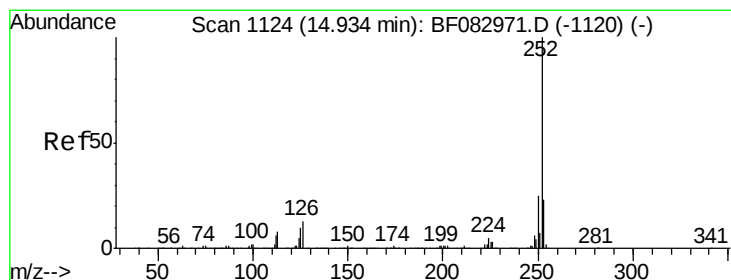
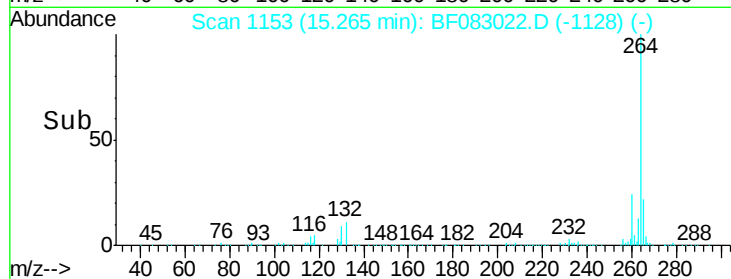
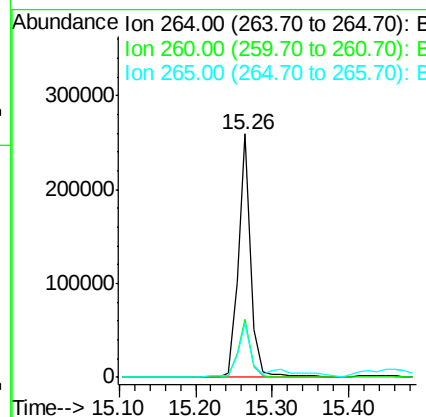
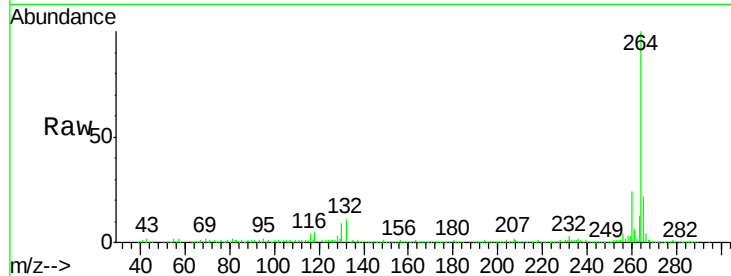




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.26 min Scan# 1153
Delta R.T. -0.01 min
Lab File: BF083022.D
Acq: 18 Nov 2015 21:56

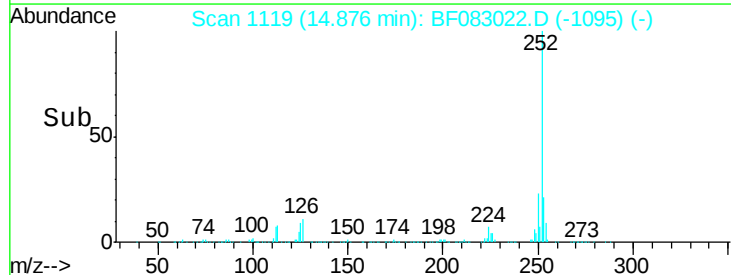
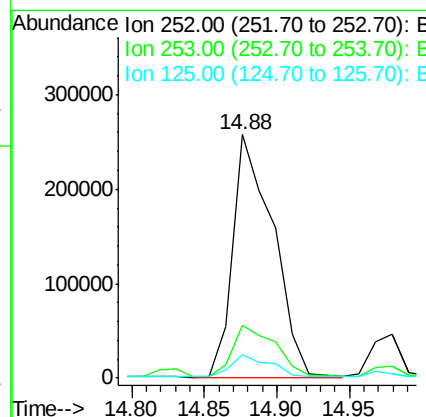
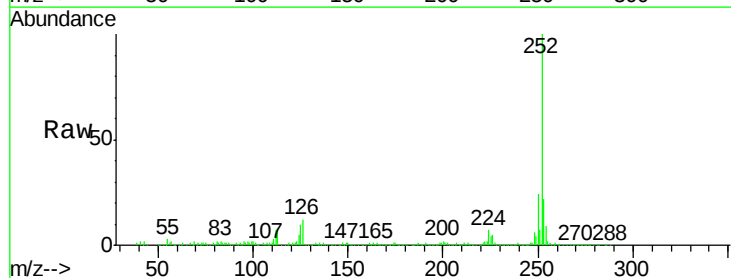
Instrument :
BNA_F
ClientSampleId :

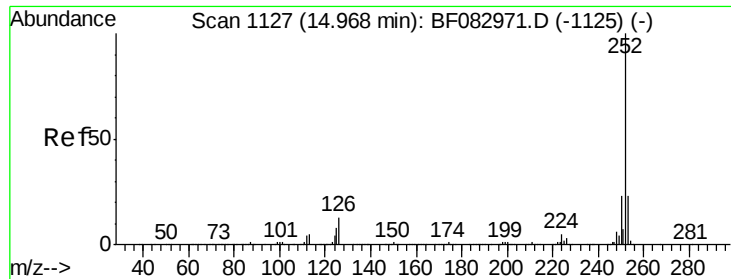
Tot Ion:264 Resp: 300362
Ion Ratio Lower Upper
264 100
260 23.6 19.8 29.6
265 22.3 17.4 26.0



#87
Benzo(b)fluoranthene
Concen: 25.61 ng
RT: 14.88 min Scan# 1119
Delta R.T. -0.02 min
Lab File: BF083022.D
Acq: 18 Nov 2015 21:56

Tgt Ion:252 Resp: 493787
Ion Ratio Lower Upper
252 100
253 21.6 17.8 26.8
125 9.7 5.4 8.2#

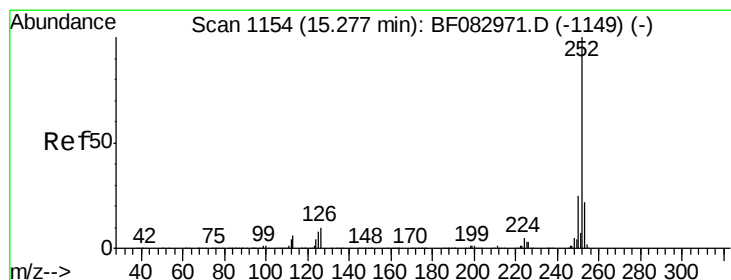
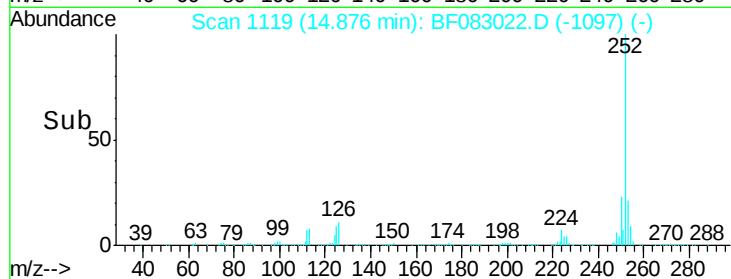
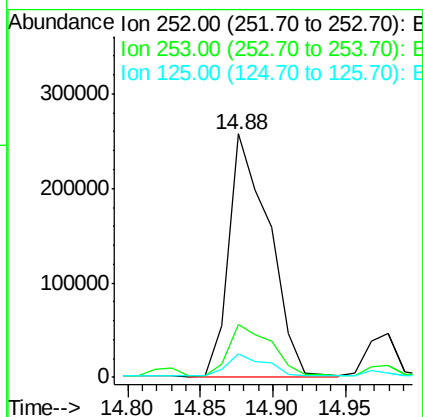
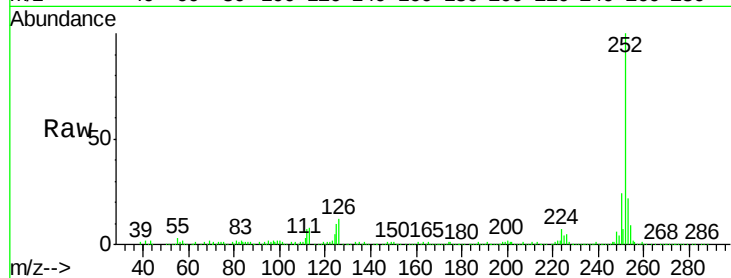




#88
Benzo(k)fluoranthene
Concen: 28.87 ng
RT: 14.88 min Scan# 1119
Delta R.T. -0.05 min
Lab File: BF083022.D
Acq: 18 Nov 2015 21:56

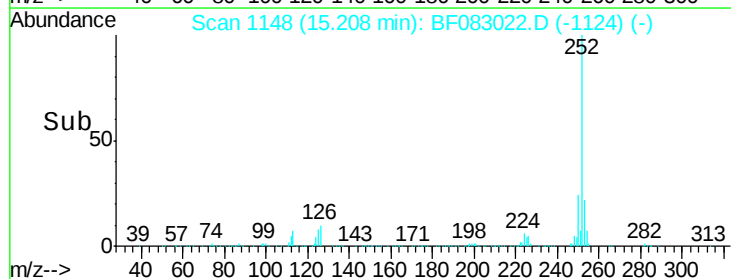
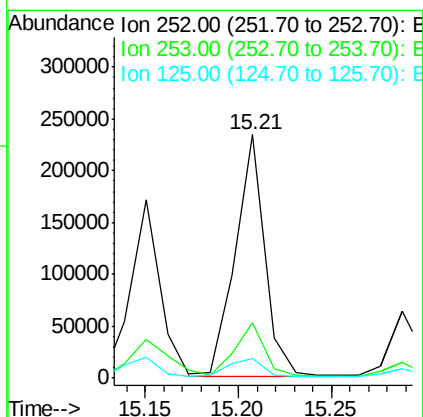
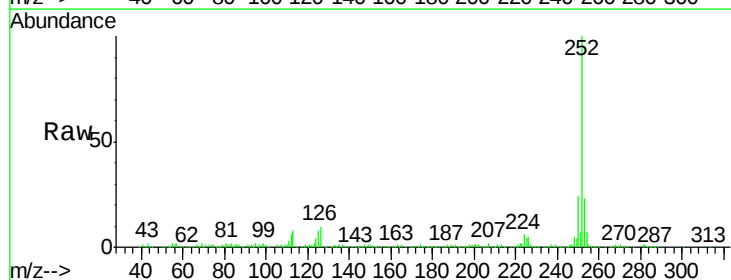
Instrument :
BNA_F
ClientSampleId :

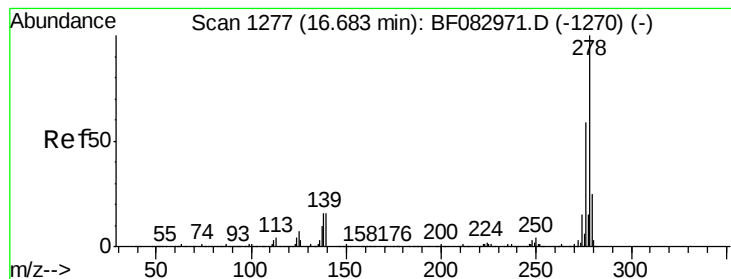
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.9	26.9
125	9.7	3.5	5.3



#89
Benzo(a)pyrene
Concen: 15.37 ng
RT: 15.21 min Scan# 1148
Delta R.T. -0.02 min
Lab File: BF083022.D
Acq: 18 Nov 2015 21:56

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.3	25.9
125	8.2	7.1	10.7





#90

Dibenzo(a,h)anthracene

Concen: 2.40 ng

RT: 16.73 min Scan# 1281

Delta R.T. 0.10 min

Lab File: BF083022.D

Acq: 18 Nov 2015 21:56

Instrument :

BNA_F

ClientSampled :

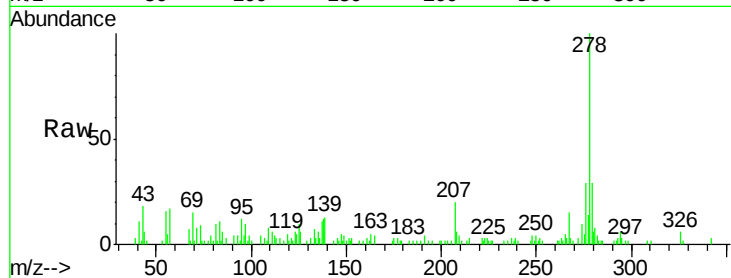
Tot Ion:278 Resp: 33897

Ion Ratio Lower Upper

278 100

139 13.0 9.9 14.9

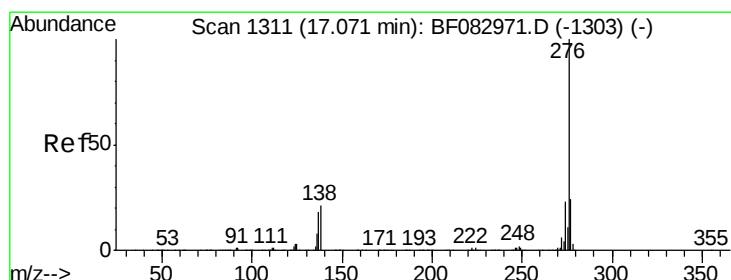
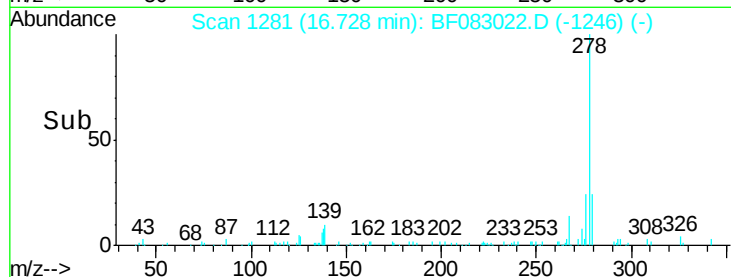
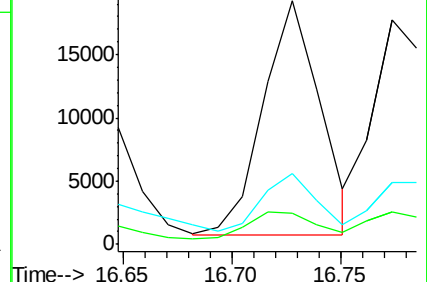
279 29.0 19.6 29.4



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 12.55 ng

RT: 16.96 min Scan# 1301

Delta R.T. -0.05 min

Lab File: BF083022.D

Acq: 18 Nov 2015 21:56

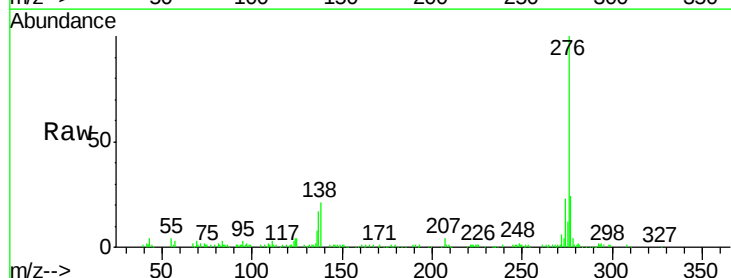
Tgt Ion:276 Resp: 170085

Ion Ratio Lower Upper

276 100

277 24.0 19.2 28.8

138 20.5 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

