

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080917\
 Data File : BF097557.D
 Acq On : 10 Aug 2017 12:33
 Operator : SJ/JU
 Sample : I4677-01DL 5X
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 10 13:28:40 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 07 16:02:51 2017
 Response via : Initial Calibration

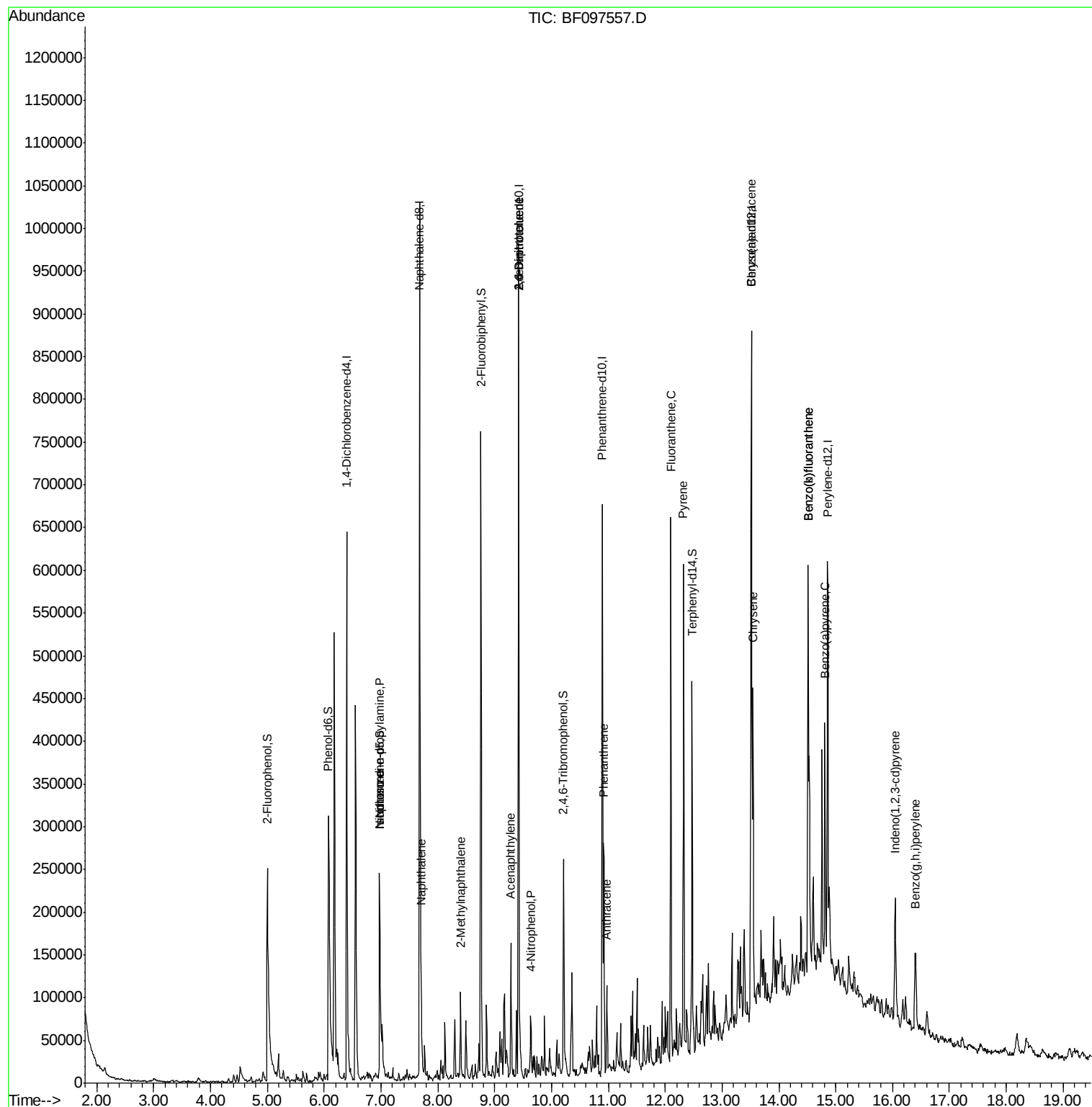
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.40	152	116888	20.00	ng	-0.01
21) Naphthalene-d8	7.68	136	466687	20.00	ng	-0.02
38) Acenaphthene-d10	9.42	164	178237	20.00	ng	-0.02
63) Phenanthrene-d10	10.90	188	241556	20.00	ng	-0.02
75) Chrysene-d12	13.52	240	210926	20.00	ng	-0.02
86) Perylene-d12	14.86	264	185305	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.00	112	167202	21.56	ng	0.00
7) Phenol-d6	6.07	99	215382	24.33	ng	-0.01
23) Nitrobenzene-d5	6.97	82	123809	15.56	ng	-0.02
41) 2,4,6-Tribromophenol	10.22	330	27306	19.39	ng	-0.02
44) 2-Fluorobiphenyl	8.76	172	218895	20.84	ng	-0.02
78) Terphenyl-d14	12.47	244	121635	11.76	ng	-0.02
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	6.97	70	17254	2.961	ng	# 81
25) Isophorone	6.97	82	123809	7.947	ng	# 67
31) Naphthalene	7.70	128	52906	2.405	ng	99
37) 2-Methylnaphthalene	8.40	142	30718	2.205	ng	98
48) Acenaphthylene	9.29	152	61435	3.573	ng	96
50) 2,6-Dinitrotoluene	9.42	165	23469	8.175	ng	# 35
55) 4-Nitrophenol	9.63	139	6523	3.078	ng	# 32
56) 2,4-Dinitrotoluene	9.42	165	23469	7.112	ng	# 34
70) Phenanthrene	10.92	178	111381	8.606	ng	98
71) Anthracene	10.97	178	39837	3.005	ng	99
74) Fluoranthene	12.10	202	244023	19.246	ng	98
77) Pyrene	12.32	202	217990	12.624	ng	98
80) Benzo(a)anthracene	13.51	228	127287	9.327	ng	95
82) Chrysene	13.54	228	132610	9.951	ng	97
85) Indeno(1,2,3-cd)pyrene	16.04	276	71443	6.252	ng	98
87) Benzo(b)fluoranthene	14.52	252	279293	25.073	ng	# 95
88) Benzo(k)fluoranthene	14.52	252	279293	26.312	ng	98
89) Benzo(a)pyrene	14.81	252	118578	11.631	ng	# 97
91) Benzo(a,h,i)perylene	16.40	276	61621	7.029	ng	99

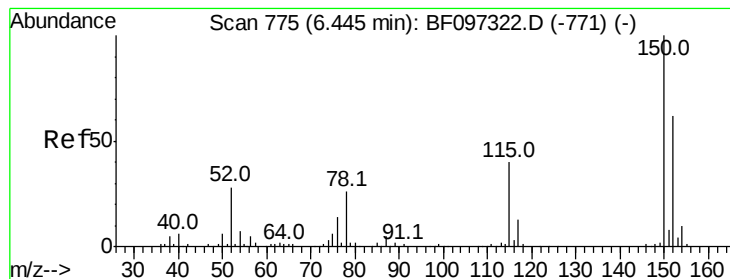
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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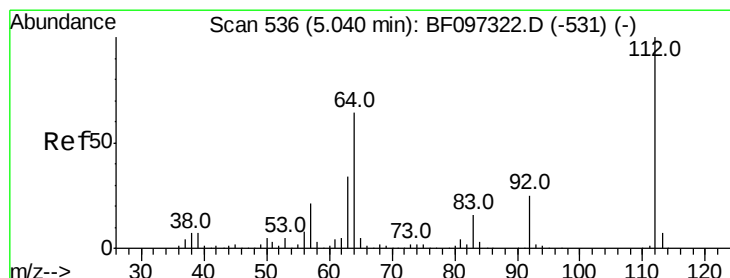
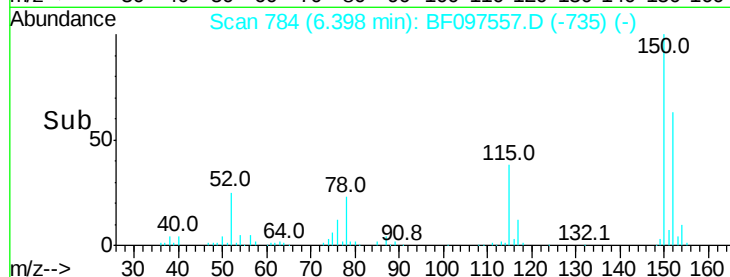
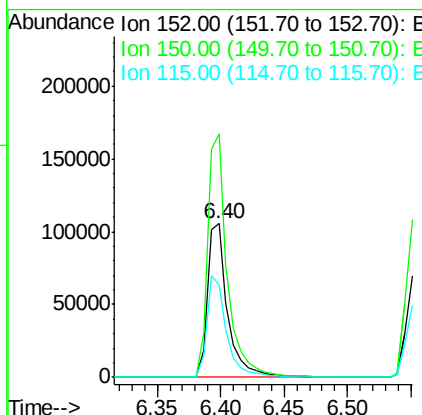
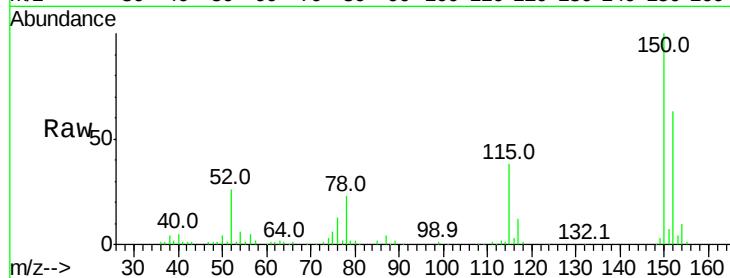


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.40 min Scan# 784
Delta R.T. -0.01 min
Lab File: BF097557.D
Acq: 10 Aug 2017 12:33

Instrument :
BNA_F
ClientSampled :

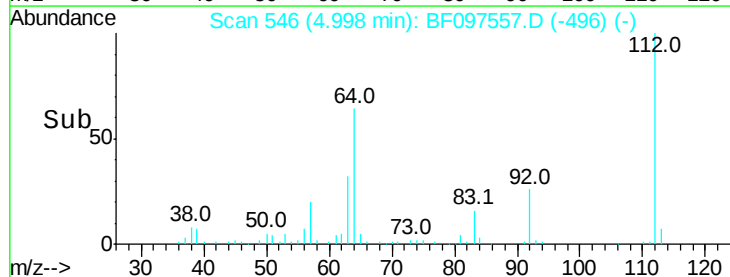
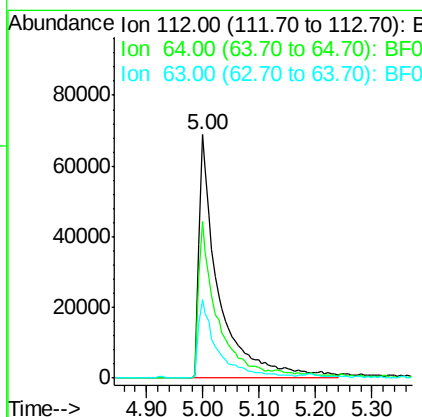
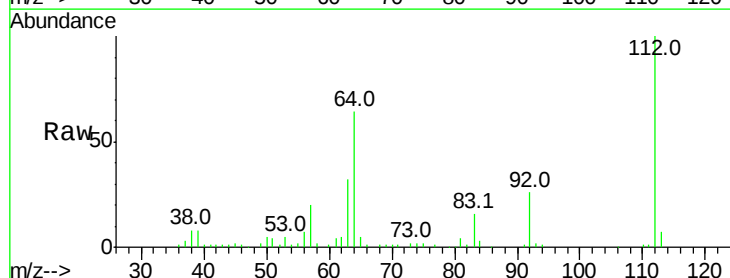
Tot Ion:152 Resp: 116888
Ion Ratio Lower Upper
152 100
150 158.3 126.2 189.2
115 59.9 52.2 78.2

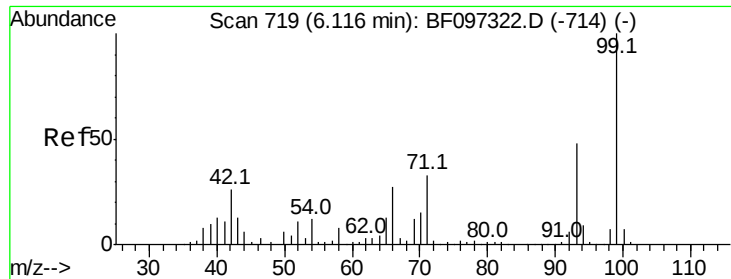


#5

2-Fluorophenol
Concen: 21.564 ng
RT: 5.00 min Scan# 546
Delta R.T. -0.01 min
Lab File: BF097557.D
Acq: 10 Aug 2017 12:33

Tgt Ion:112 Resp: 167202
Ion Ratio Lower Upper
112 100
64 64.4 46.0 69.0
63 32.0 23.4 35.0





#7

Phenol-d6

Concen: 24.332 ng

RT: 6.07 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF097557.D

Acq: 10 Aug 2017 12:33

Instrument :

BNA_F

ClientSampled :

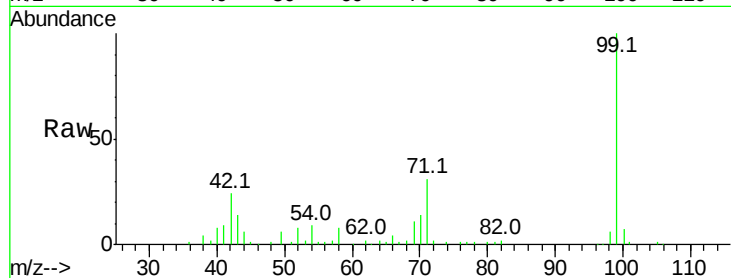
Tot Ion: 99 Resp: 215382

Ion Ratio Lower Upper

99 100

42 23.8 13.5 20.3#

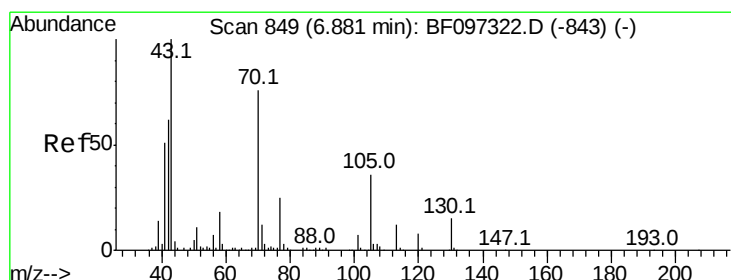
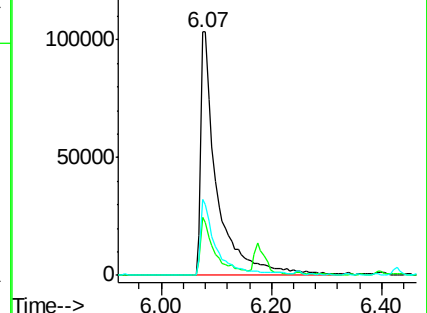
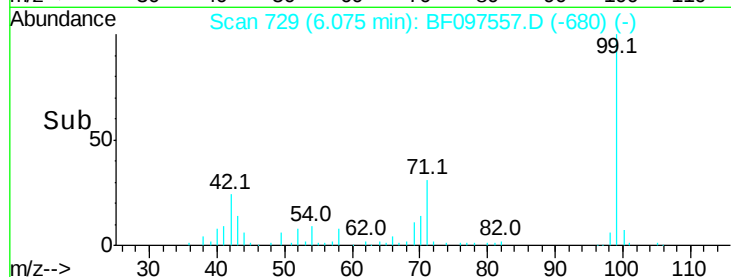
71 31.4 24.5 36.7



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: 2.961 ng

RT: 6.97 min Scan# 882

Delta R.T. 0.12 min

Lab File: BF097557.D

Acq: 10 Aug 2017 12:33

Tgt Ion: 70 Resp: 17254

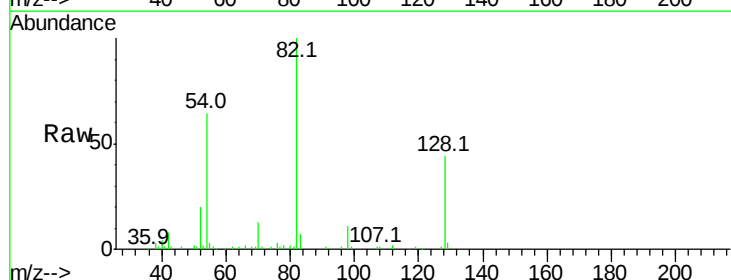
Ion Ratio Lower Upper

70 100

42 66.0 47.2 70.8

101 0.0 7.2 10.8#

130 0.0 15.9 23.9#

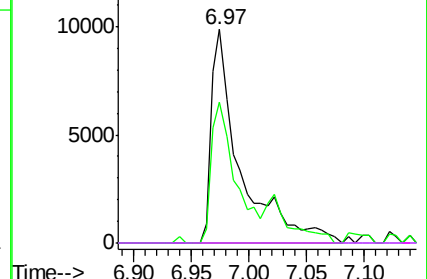
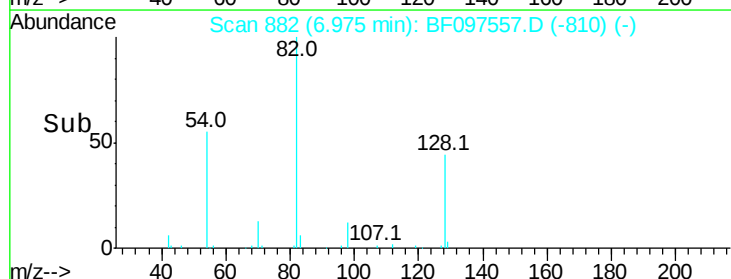


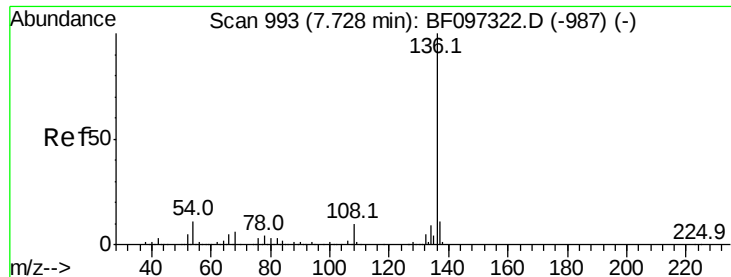
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E

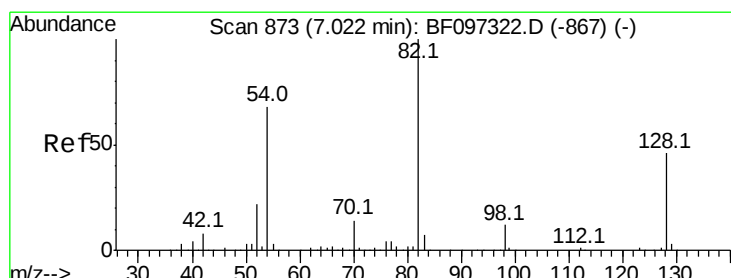
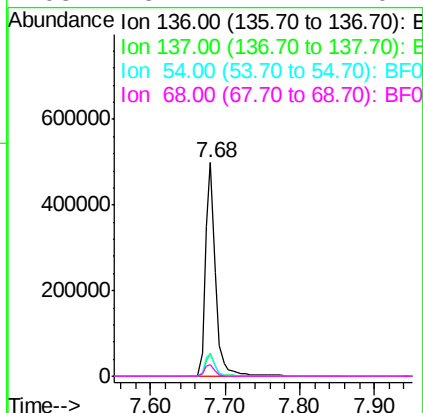
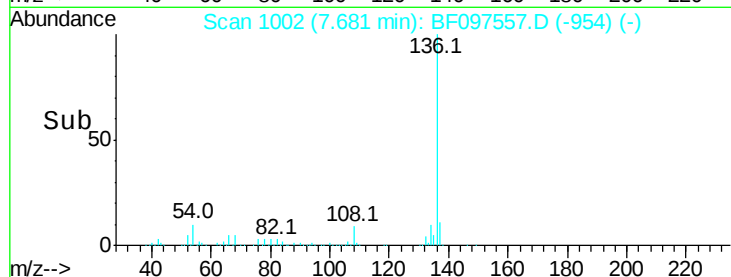
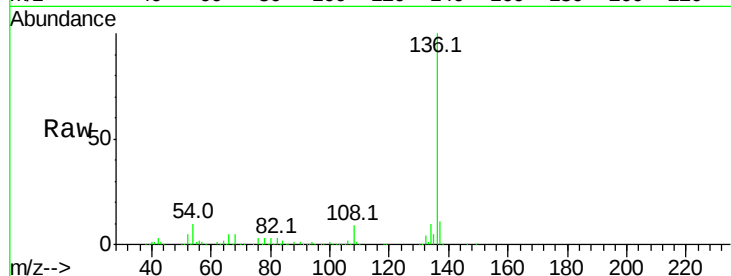




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.68 min Scan# 1002
Delta R.T. -0.02 min
Lab File: BF097557.D
Acq: 10 Aug 2017 12:33

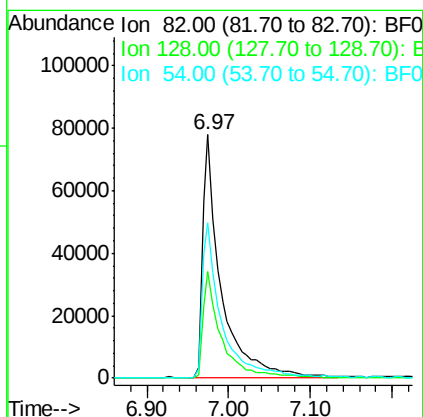
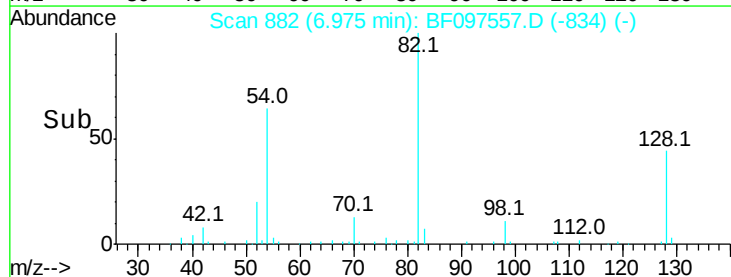
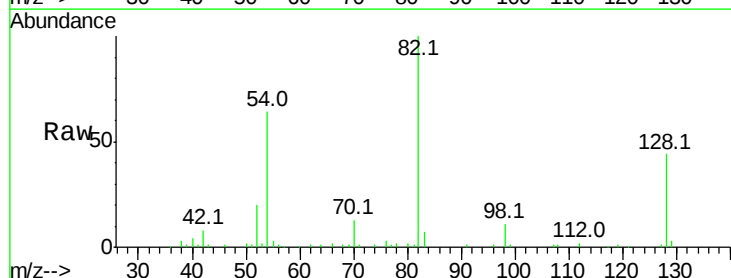
Instrument :
BNA_F
ClientSampleId :

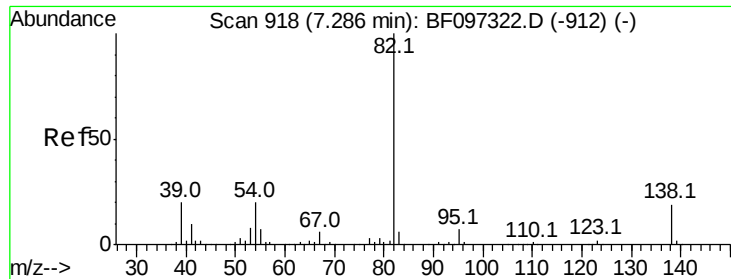
Tot Ion:	136	Resp:	466687
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.5	12.7
54	10.3	4.9	7.3#
68	5.4	4.1	6.1



#23
Nitrobenzene-d5
Concen: 15.563 ng
RT: 6.97 min Scan# 882
Delta R.T. -0.02 min
Lab File: BF097557.D
Acq: 10 Aug 2017 12:33

Tgt Ion:	82	Resp:	123809
Ion	Ratio	Lower	Upper
82	100		
128	43.7	34.0	51.0
54	63.9	42.2	63.2#





#25

Isophorone

Concen: 7.947 ng

RT: 6.97 min Scan# 882

Delta R.T. -0.28 min

Lab File: BF097557.D

Acq: 10 Aug 2017 12:33

Instrument :

BNA_F

ClientSampled :

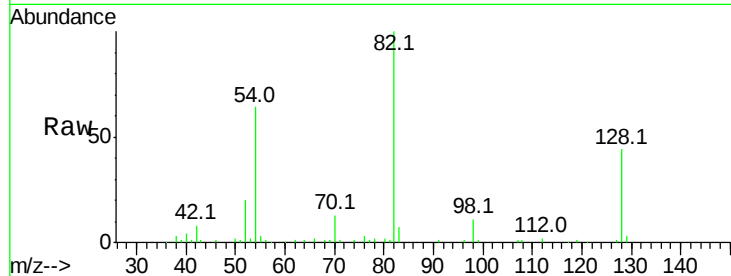
Tot Ion: 82 Resp: 123809

Ion Ratio Lower Upper

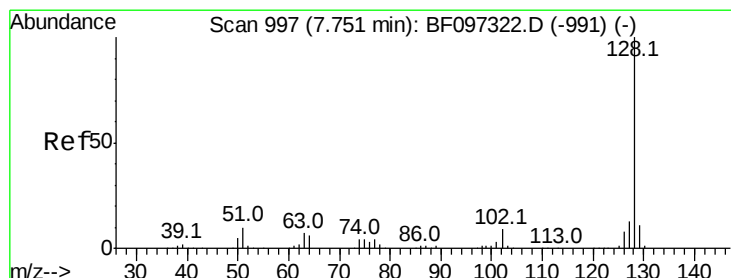
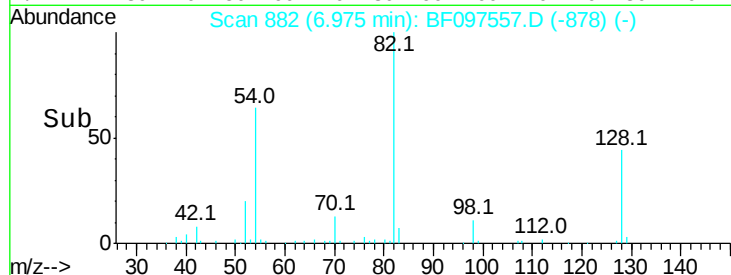
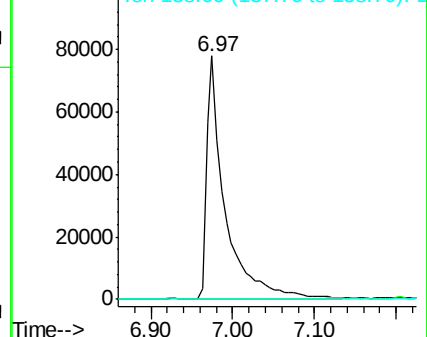
82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



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



#31

Naphthalene

Concen: 2.405 ng

RT: 7.70 min Scan# 1006

Delta R.T. -0.01 min

Lab File: BF097557.D

Acq: 10 Aug 2017 12:33

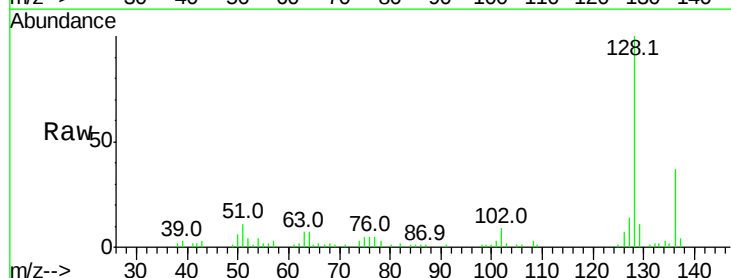
Tgt Ion: 128 Resp: 52906

Ion Ratio Lower Upper

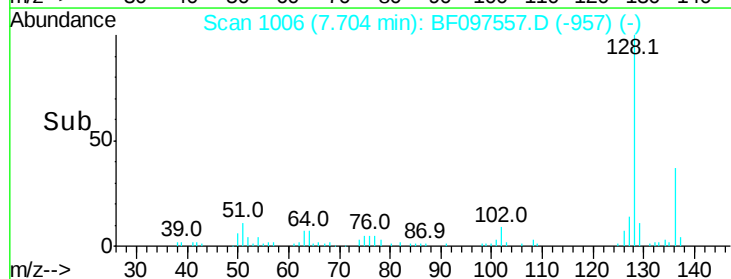
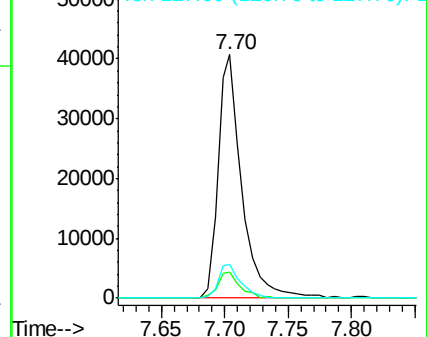
128 100

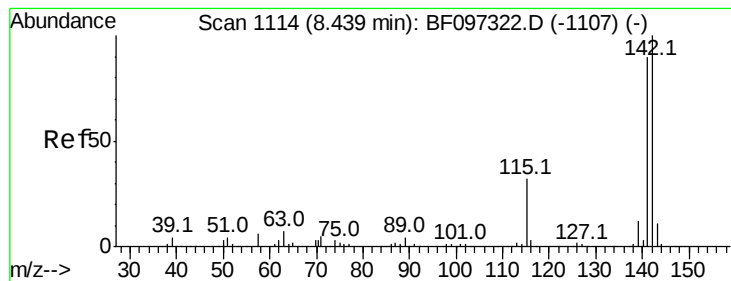
129 10.5 9.0 13.6

127 13.7 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

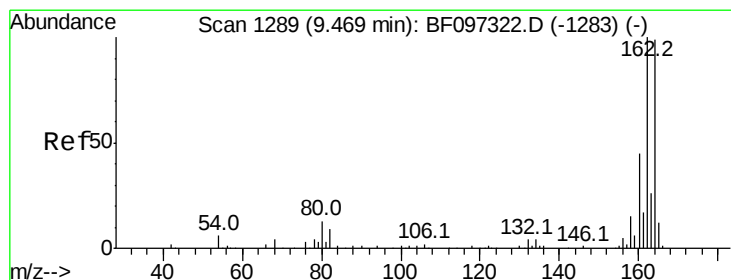
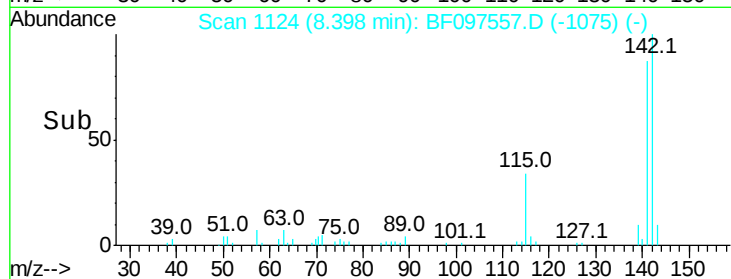
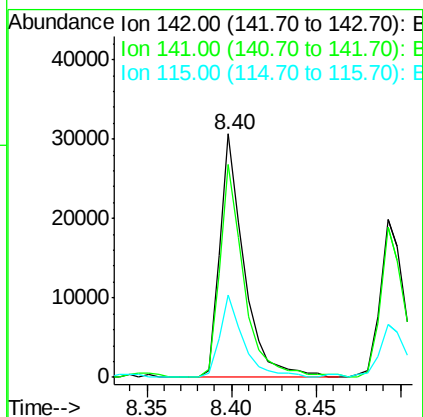
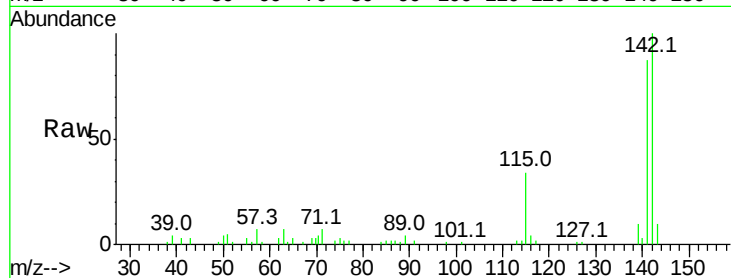




#37
 2-Methylnaphthalene
 Concen: 2.205 ng
 RT: 8.40 min Scan# 1124
 Delta R.T. -0.01 min
 Lab File: BF097557.D
 Acq: 10 Aug 2017 12:33

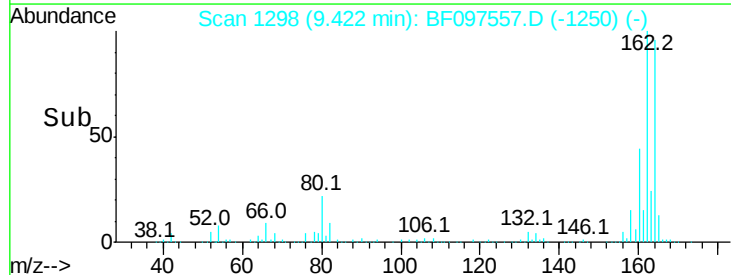
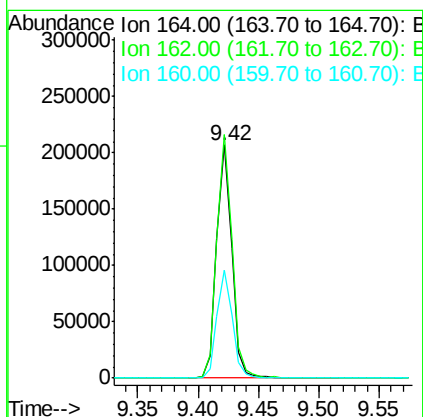
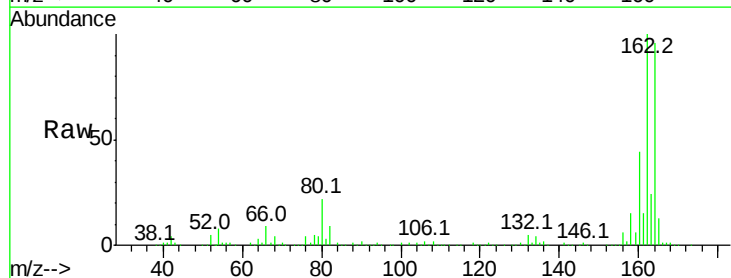
Instrument :
 BNA_F
 ClientSampleId :

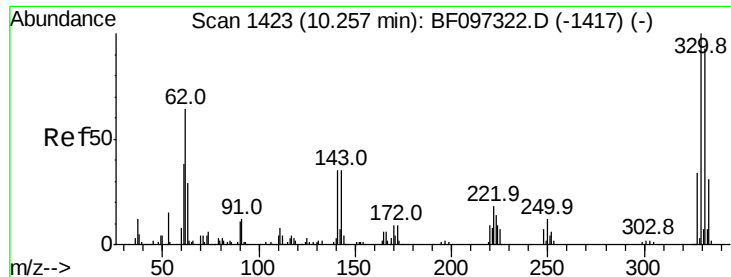
Tot Ion:142 Resp: 30718
 Ion Ratio Lower Upper
 142 100
 141 87.3 71.3 106.9
 115 33.7 27.1 40.7



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.42 min Scan# 1298
 Delta R.T. -0.02 min
 Lab File: BF097557.D
 Acq: 10 Aug 2017 12:33

Tgt Ion:164 Resp: 178237
 Ion Ratio Lower Upper
 164 100
 162 104.4 82.6 123.8
 160 46.4 36.2 54.2

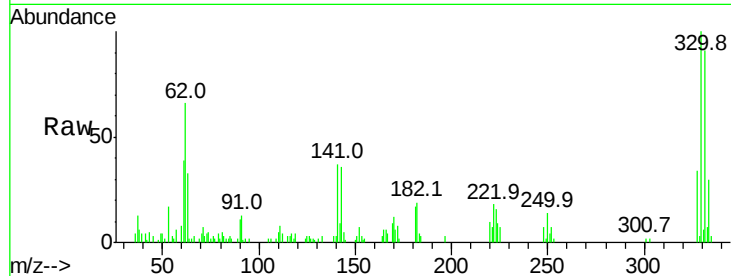




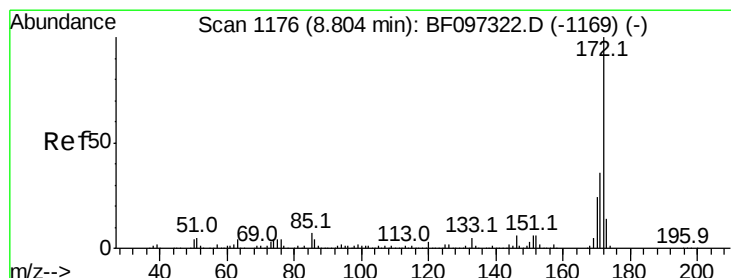
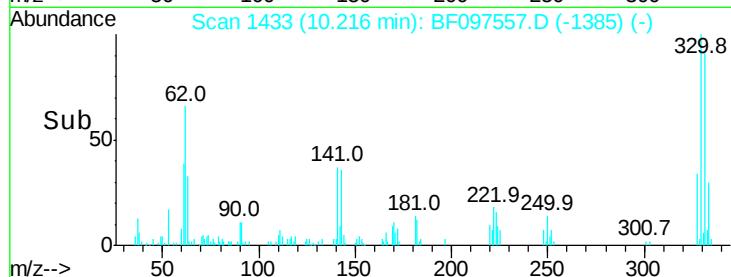
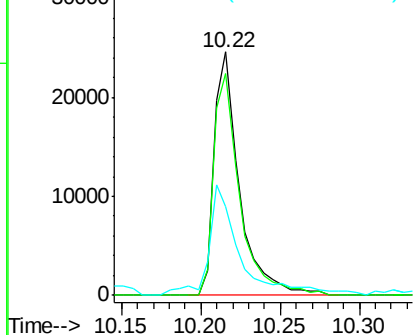
#41
 2,4,6-Tribromophenol
 Concen: 19.390 ng
 RT: 10.22 min Scan# 1433
 Delta R.T. -0.02 min
 Lab File: BF097557.D
 Acq: 10 Aug 2017 12:33

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 27306
 Ion Ratio Lower Upper
 330 100
 332 94.0 76.6 115.0
 141 57.0 31.4 47.2#

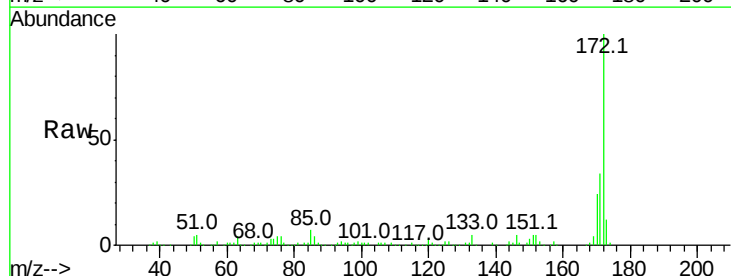


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

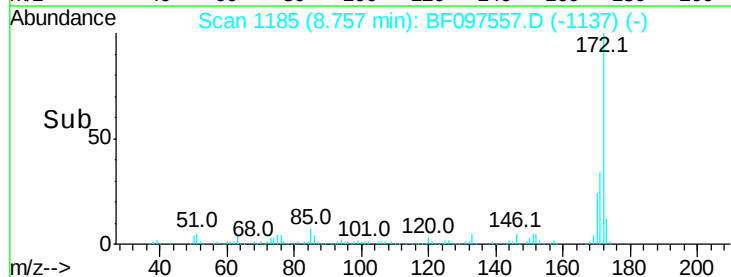
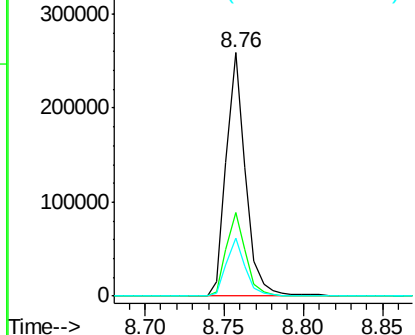


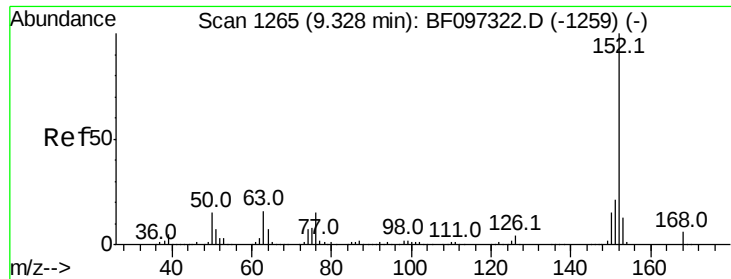
#44
 2-Fluorobiphenyl
 Concen: 20.842 ng
 RT: 8.76 min Scan# 1185
 Delta R.T. -0.02 min
 Lab File: BF097557.D
 Acq: 10 Aug 2017 12:33

Tgt Ion:172 Resp: 218895
 Ion Ratio Lower Upper
 172 100
 171 34.3 29.6 44.4
 170 23.9 19.8 29.8



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





#48

Acenaphthylene

Concen: 3.573 ng

RT: 9.29 min Scan# 1275

Delta R.T. -0.02 min

Lab File: BF097557.D

Acq: 10 Aug 2017 12:33

Instrument :

BNA_F

ClientSampleId :

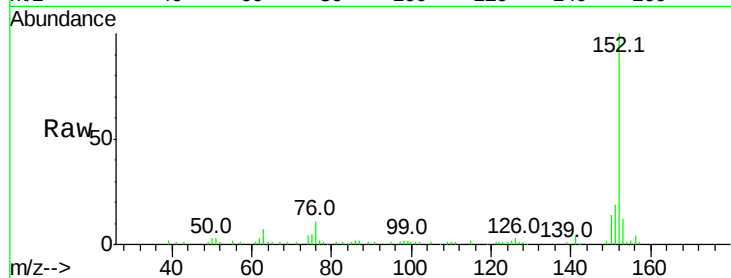
Tot Ion:152 Resp: 61435

Ion Ratio Lower Upper

152 100

151 18.5 16.8 25.2

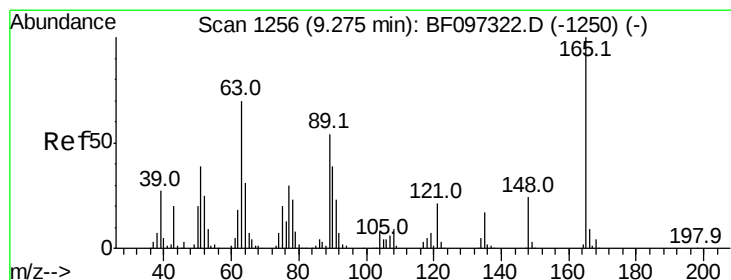
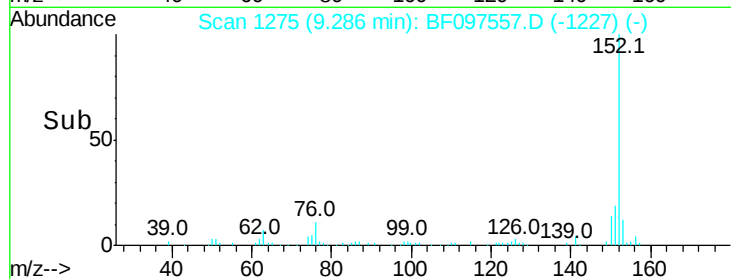
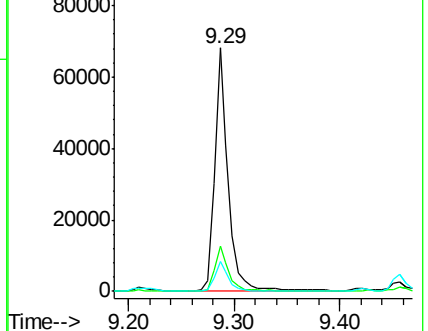
153 12.3 10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

2,6-Dinitrotoluene

Concen: 8.175 ng

RT: 9.42 min Scan# 1298

Delta R.T. 0.17 min

Lab File: BF097557.D

Acq: 10 Aug 2017 12:33

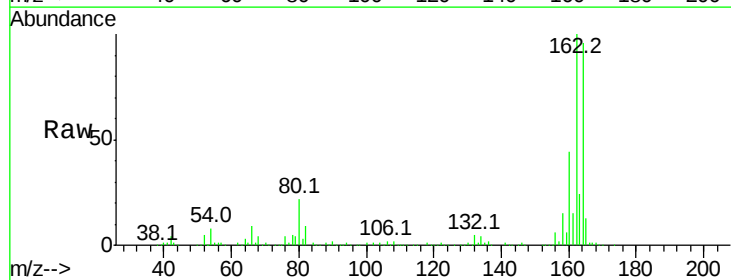
Tgt Ion:165 Resp: 23469

Ion Ratio Lower Upper

165 100

63 2.6 34.3 51.5#

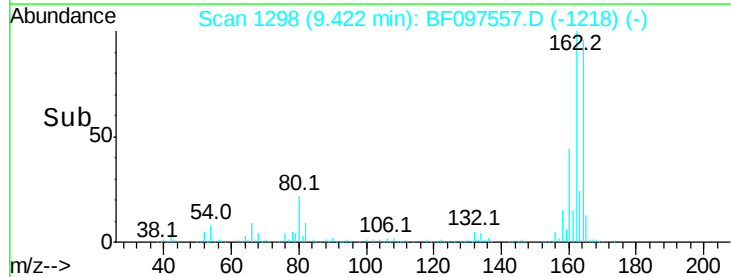
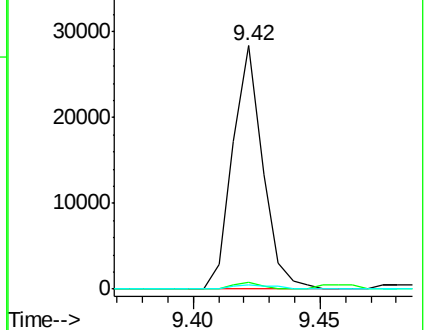
89 1.6 37.1 55.7#

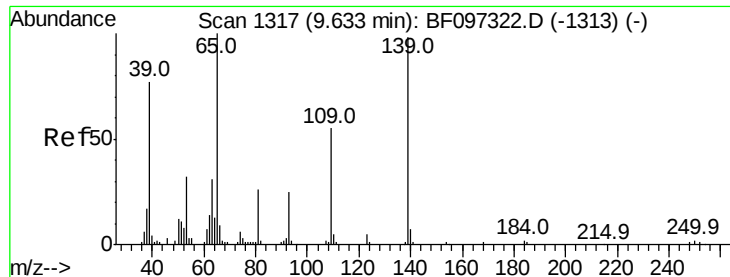


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

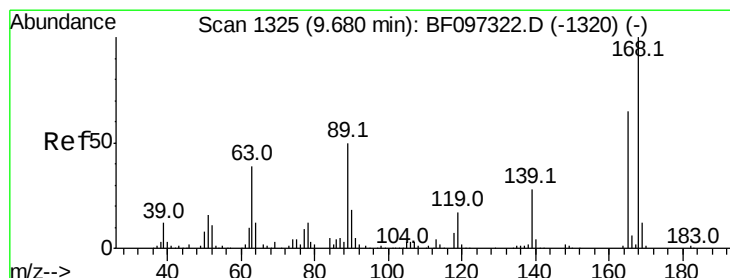
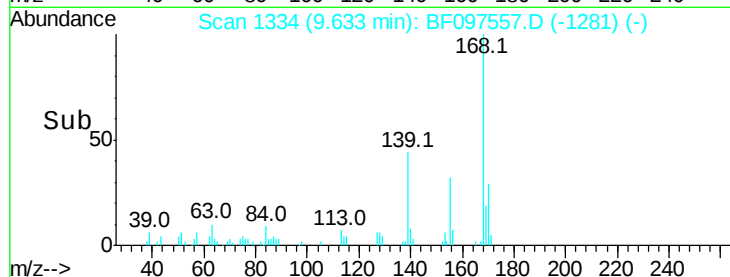
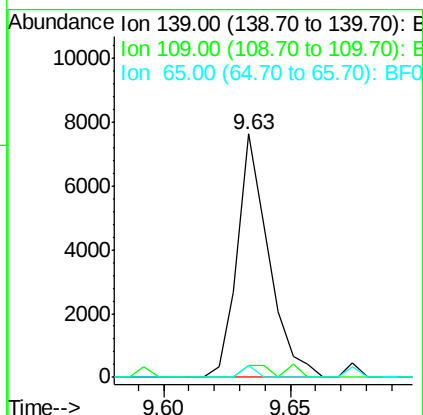
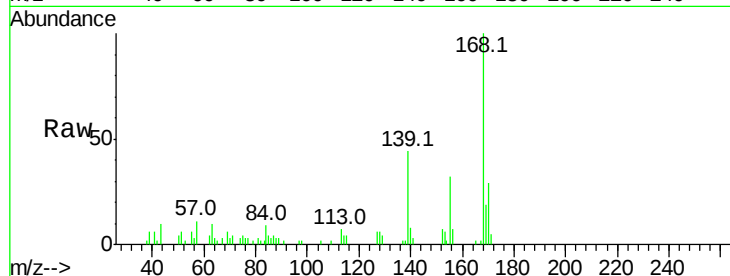




#55
4-Nitrophenol
Concen: 3.078 ng
RT: 9.63 min Scan# 1334
Delta R.T. 0.01 min
Lab File: BF097557.D
Acq: 10 Aug 2017 12:33

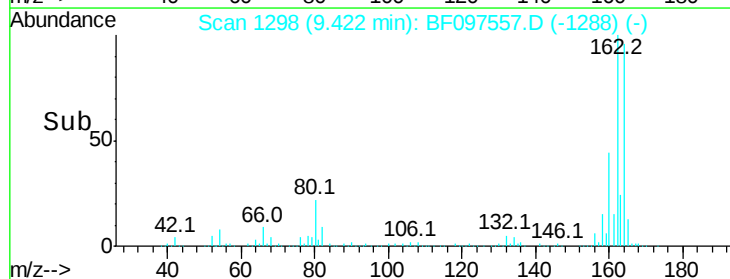
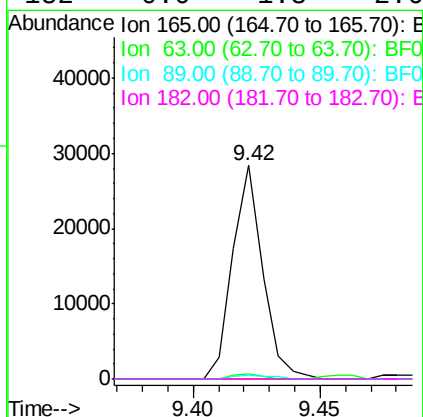
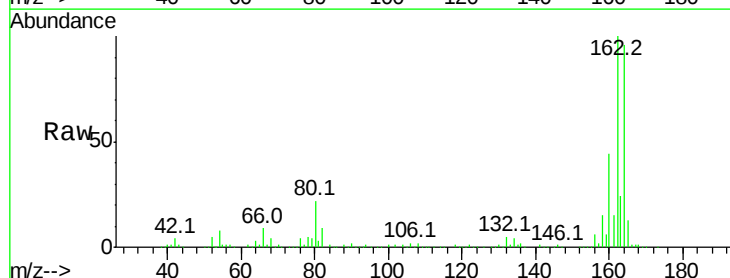
Instrument :
BNA_F
ClientSampleId :

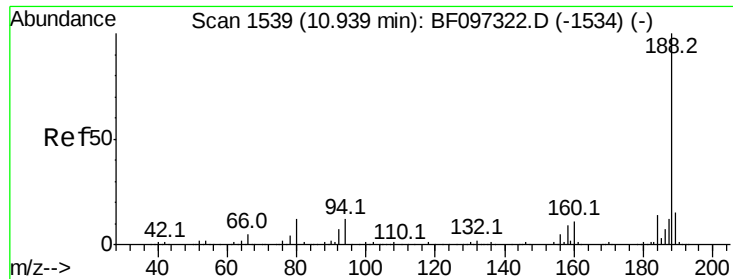
Tot Ion:139 Resp: 6523
Ion Ratio Lower Upper
139 100
109 4.7 34.1 74.1#
65 4.9 31.4 71.4#



#56
2,4-Dinitrotoluene
Concen: 7.112 ng
RT: 9.42 min Scan# 1298
Delta R.T. -0.24 min
Lab File: BF097557.D
Acq: 10 Aug 2017 12:33

Tgt Ion:165 Resp: 23469
Ion Ratio Lower Upper
165 100
63 2.6 25.4 38.0#
89 1.6 46.4 69.6#
182 0.0 1.8 2.6#

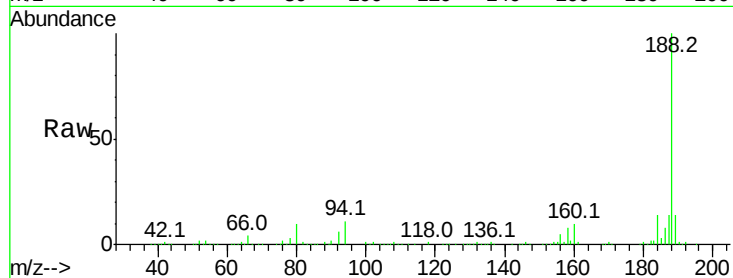




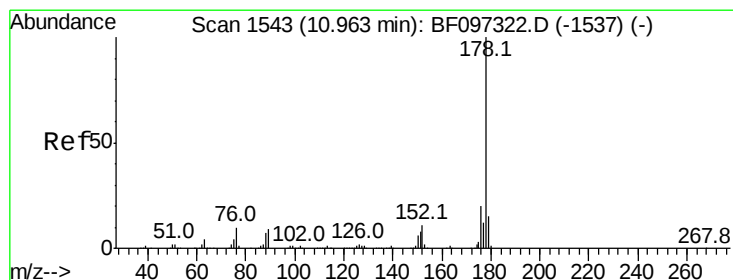
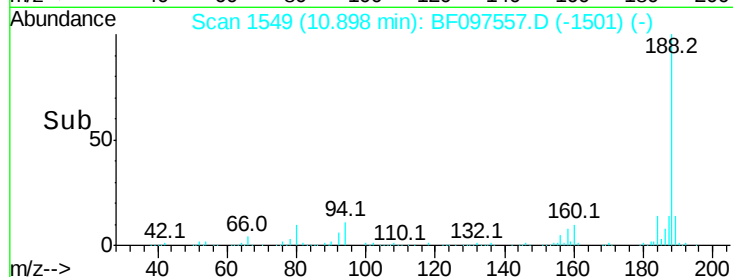
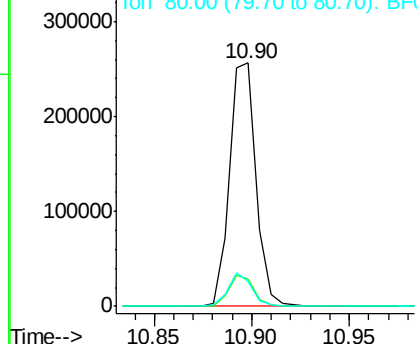
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 10.90 min Scan# 1549
Delta R.T. -0.02 min
Lab File: BF097557.D
Acq: 10 Aug 2017 12:33

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 241556
Ion Ratio Lower Upper
188 100
94 11.0 9.4 14.2
80 10.2 10.2 15.2

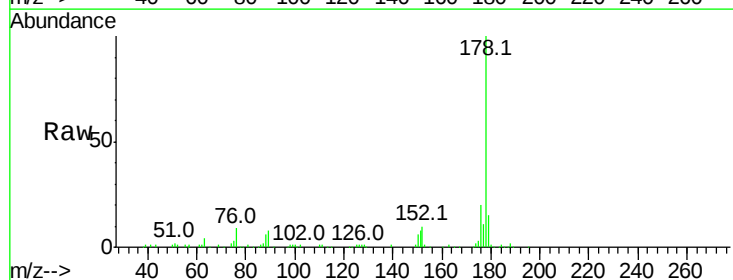


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

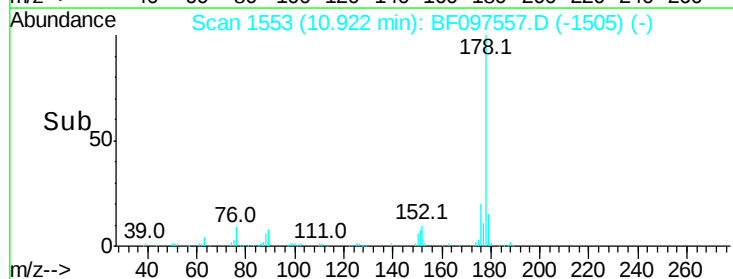
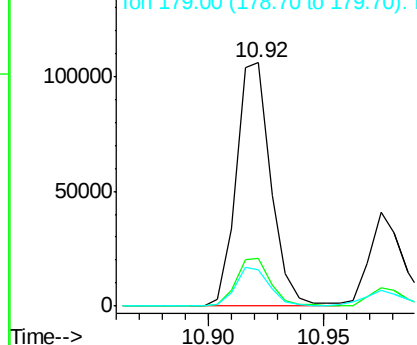


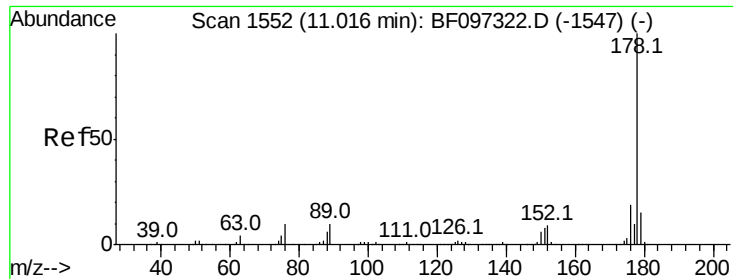
#70
Phenanthrene
Concen: 8.606 ng
RT: 10.92 min Scan# 1553
Delta R.T. -0.02 min
Lab File: BF097557.D
Acq: 10 Aug 2017 12:33

Tgt Ion:178 Resp: 111381
Ion Ratio Lower Upper
178 100
176 19.5 16.2 24.4
179 14.7 12.6 19.0



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

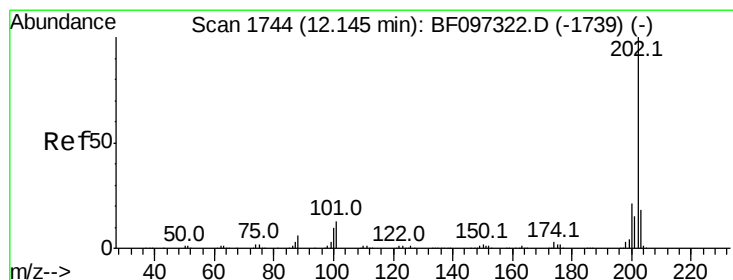
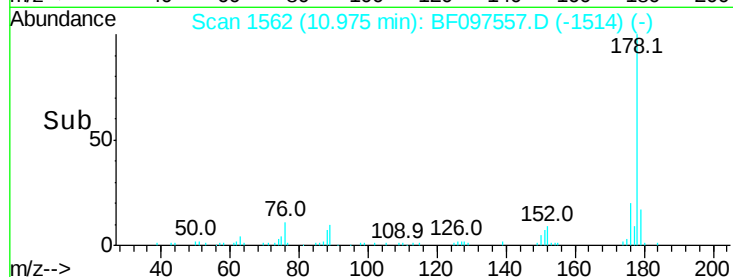
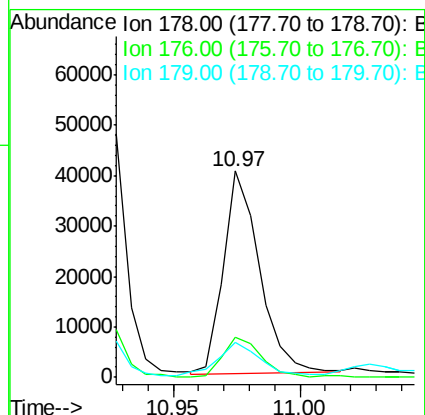
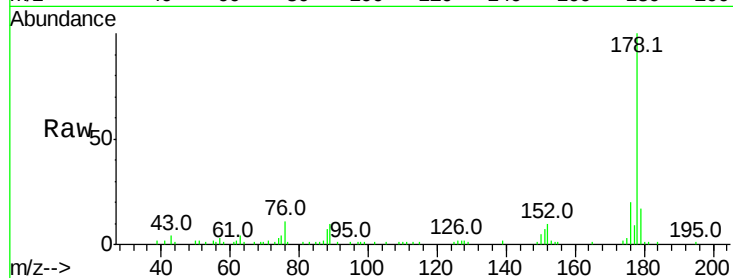




#71
 Anthracene
 Concen: 3.005 ng
 RT: 10.97 min Scan# 1562
 Delta R.T. -0.02 min
 Lab File: BF097557.D
 Acq: 10 Aug 2017 12:33

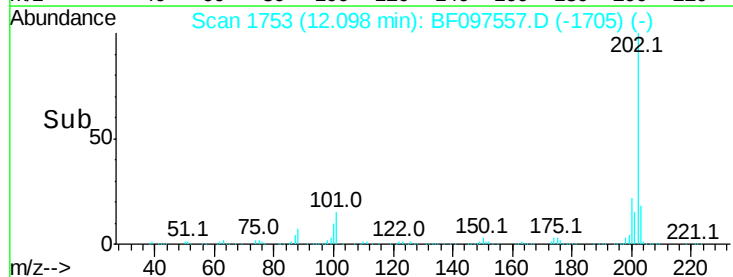
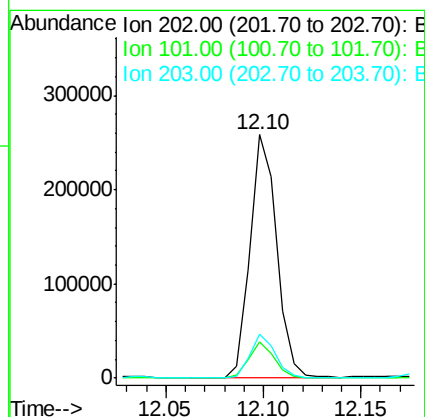
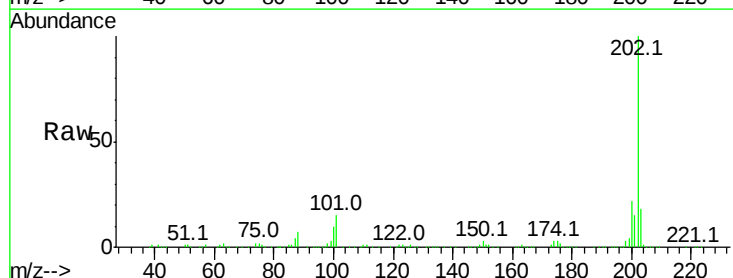
Instrument :
 BNA_F
 ClientSampleId :

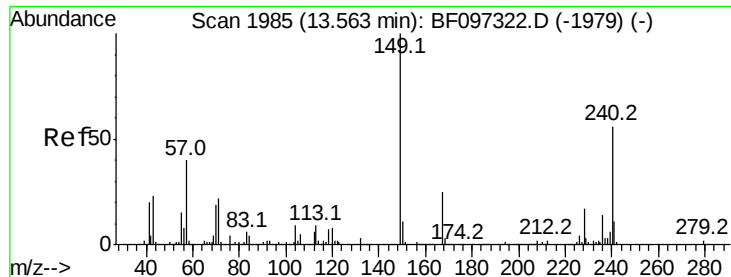
Tot Ion:178 Resp: 39837
 Ion Ratio Lower Upper
 178 100
 176 19.6 15.8 23.8
 179 16.9 12.7 19.1



#74
 Fluoranthene
 Concen: 19.246 ng
 RT: 12.10 min Scan# 1753
 Delta R.T. -0.02 min
 Lab File: BF097557.D
 Acq: 10 Aug 2017 12:33

Tgt Ion:202 Resp: 244023
 Ion Ratio Lower Upper
 202 100
 101 15.1 0.0 33.2
 203 18.3 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.52 min Scan# 1995

Delta R.T. -0.02 min

Lab File: BF097557.D

Acq: 10 Aug 2017 12:33

Instrument :

BNA_F

ClientSampleId :

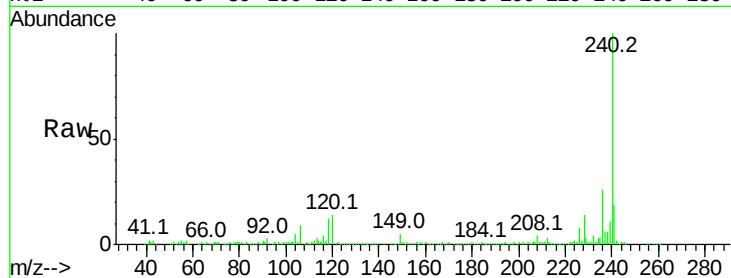
Tot Ion:240 Resp: 210926

Ion Ratio Lower Upper

240 100

120 14.4 5.8 8.8#

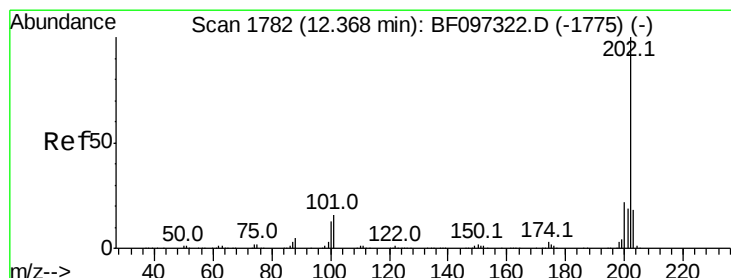
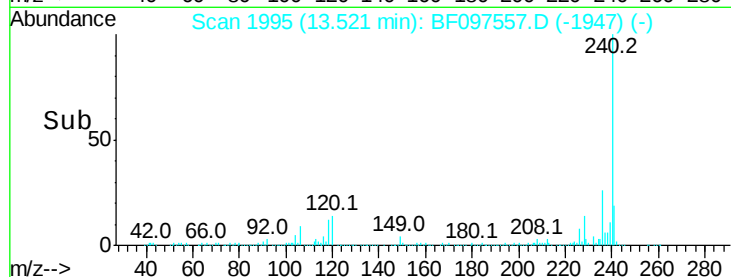
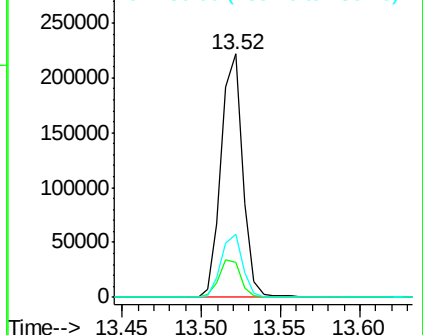
236 25.7 20.5 30.7



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: 12.624 ng

RT: 12.32 min Scan# 1791

Delta R.T. -0.02 min

Lab File: BF097557.D

Acq: 10 Aug 2017 12:33

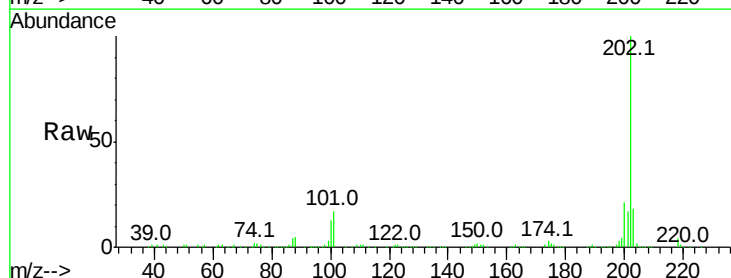
Tgt Ion:202 Resp: 217990

Ion Ratio Lower Upper

202 100

200 20.7 17.6 26.4

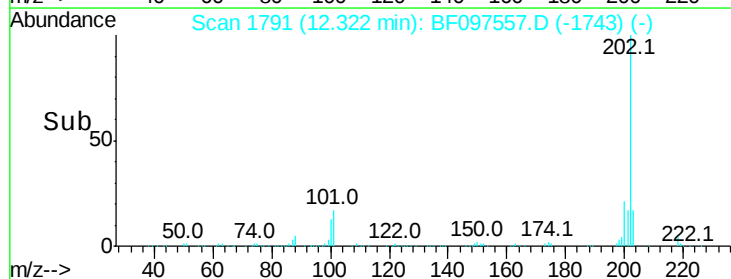
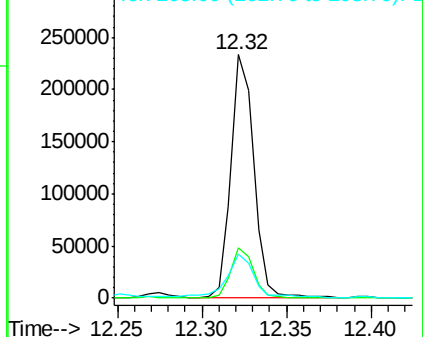
203 17.8 14.4 21.6

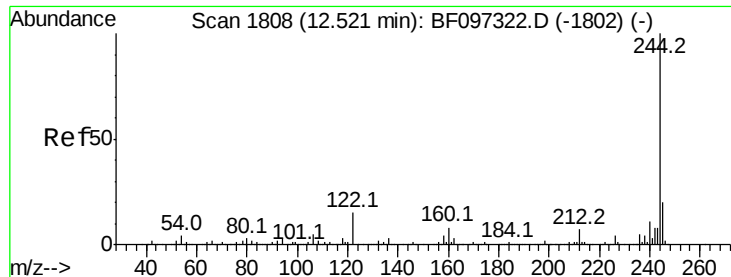


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 11.757 ng

RT: 12.47 min Scan# 1817

Delta R.T. -0.02 min

Lab File: BF097557.D

Acq: 10 Aug 2017 12:33

Instrument :

BNA_F

ClientSampleId :

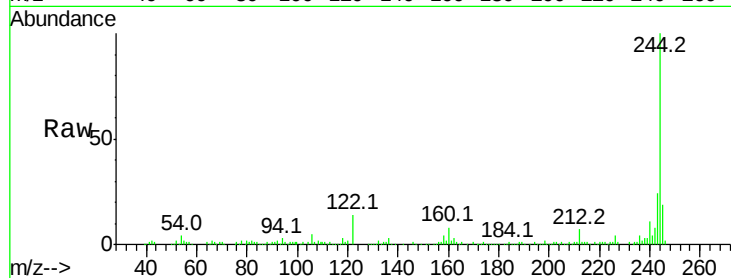
Tot Ion:244 Resp: 121635

Ion Ratio Lower Upper

244 100

212 6.5 6.0 9.0

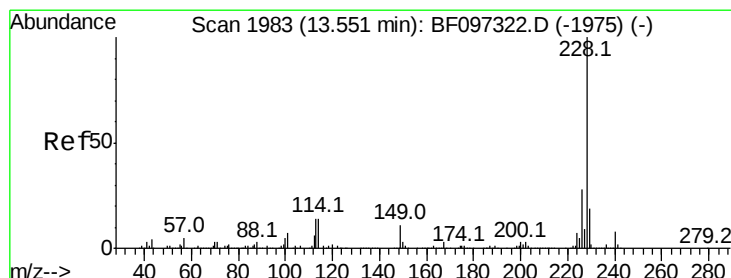
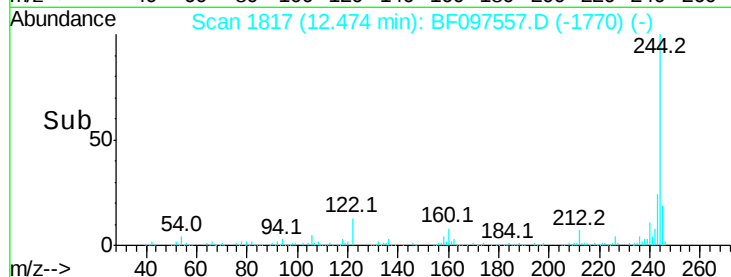
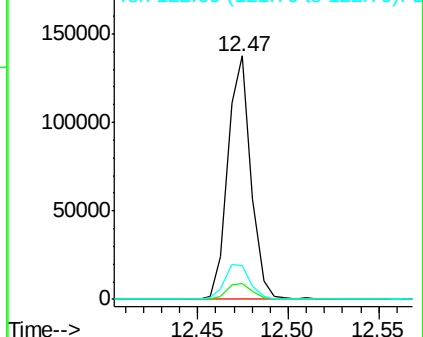
122 13.8 10.3 15.5



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: 9.327 ng

RT: 13.51 min Scan# 1993

Delta R.T. -0.02 min

Lab File: BF097557.D

Acq: 10 Aug 2017 12:33

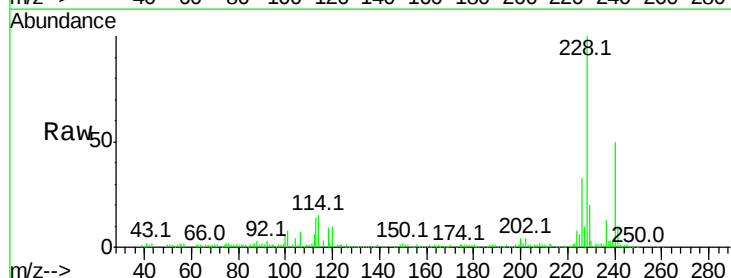
Tgt Ion:228 Resp: 127287

Ion Ratio Lower Upper

228 100

226 33.0 22.6 33.8

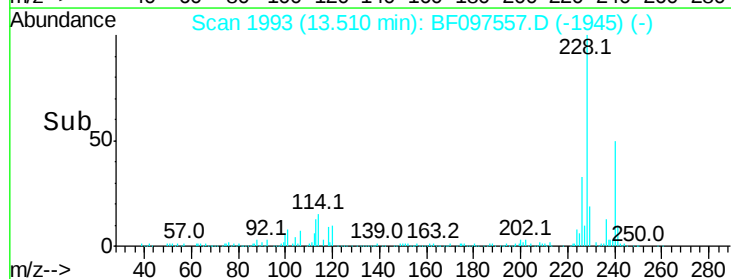
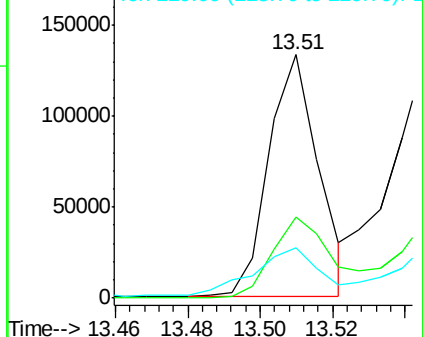
229 20.5 16.3 24.5

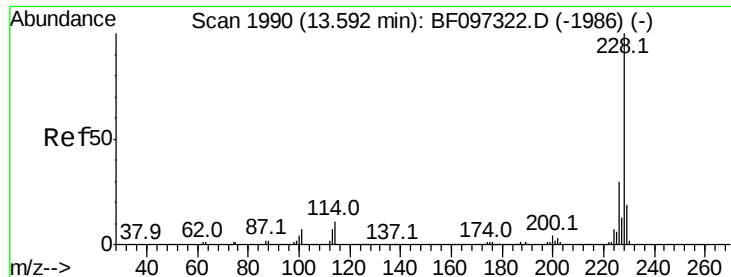


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 9.951 ng

RT: 13.54 min Scan# 1999

Delta R.T. -0.02 min

Lab File: BF097557.D

Acq: 10 Aug 2017 12:33

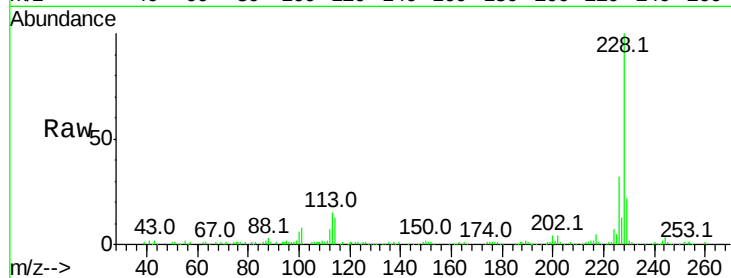
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 132610

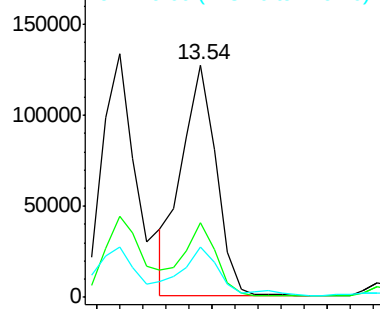
Ion	Ratio	Lower	Upper
228	100		
226	31.9	24.9	37.3
229	21.8	15.8	23.6



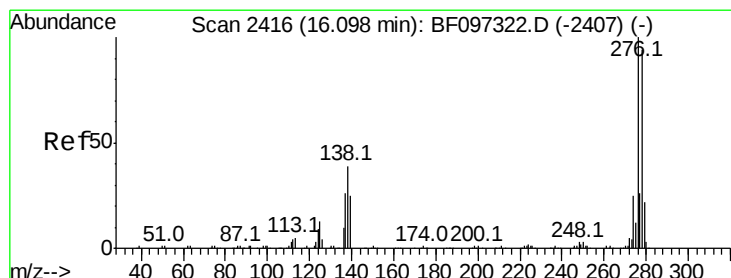
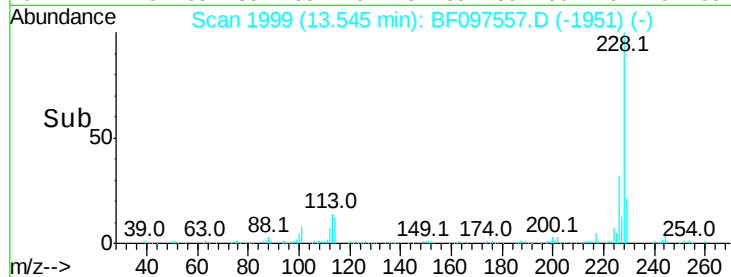
Abundance Ion 228.00 (227.70 to 228.70): E

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: 6.252 ng

RT: 16.04 min Scan# 2424

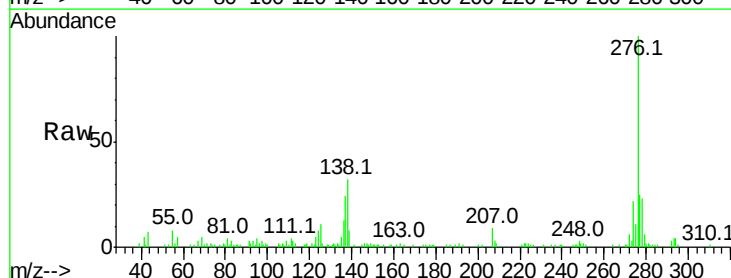
Delta R.T. -0.02 min

Lab File: BF097557.D

Acq: 10 Aug 2017 12:33

Tgt Ion:276 Resp: 71443

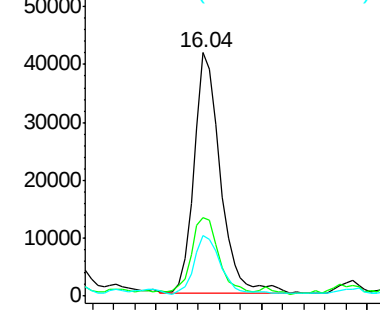
Ion	Ratio	Lower	Upper
276	100		
138	33.3	27.8	41.6
277	25.0	20.2	30.4



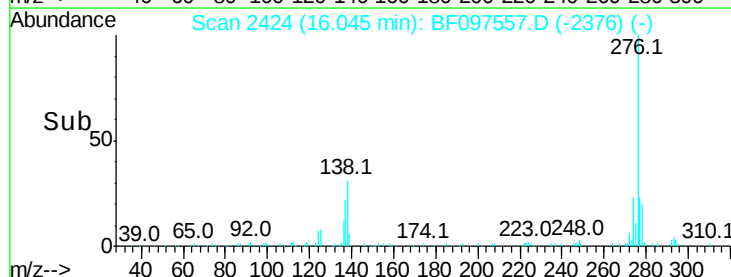
Abundance Ion 276.00 (275.70 to 276.70): E

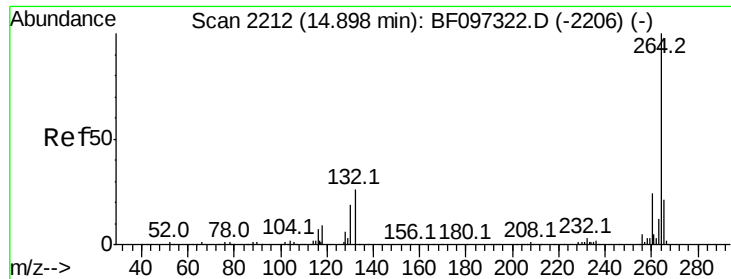
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



Time-->





#86

Pervlene-d12

Concen: 20.000 ng

RT: 14.86 min Scan# 2222

Delta R.T. -0.01 min

Lab File: BF097557.D

Acq: 10 Aug 2017 12:33

Instrument :

BNA_F

ClientSampleId :

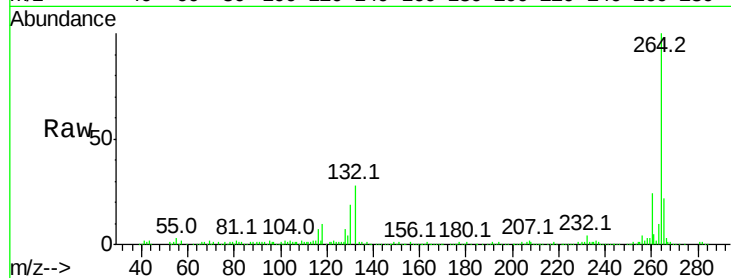
Tot Ion:264 Resp: 185305

Ion Ratio Lower Upper

264 100

260 23.5 19.5 29.3

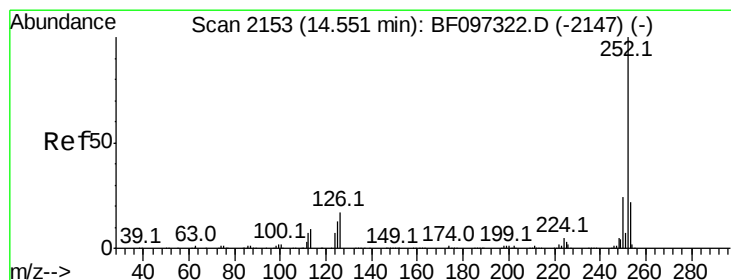
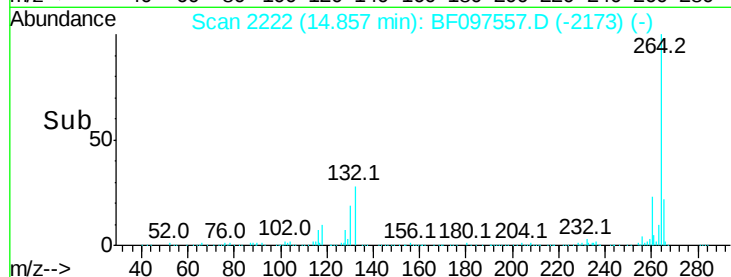
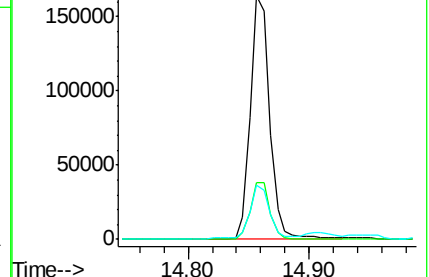
265 22.4 17.2 25.8



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: 25.073 ng

RT: 14.52 min Scan# 2164

Delta R.T. -0.01 min

Lab File: BF097557.D

Acq: 10 Aug 2017 12:33

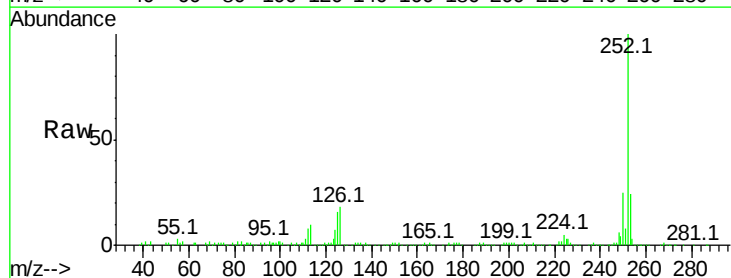
Tgt Ion:252 Resp: 279293

Ion Ratio Lower Upper

252 100

253 23.9 18.1 27.1

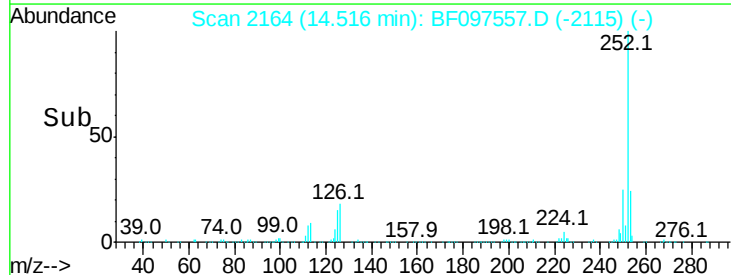
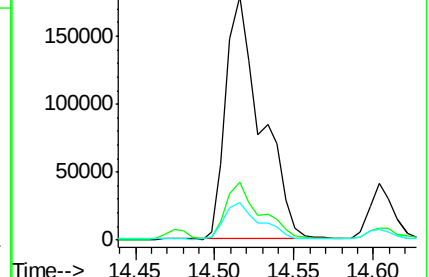
125 15.6 9.8 14.8#

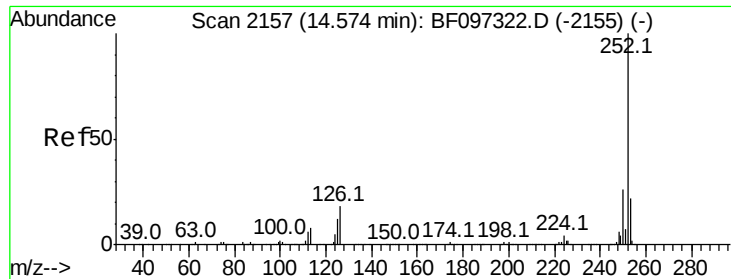


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

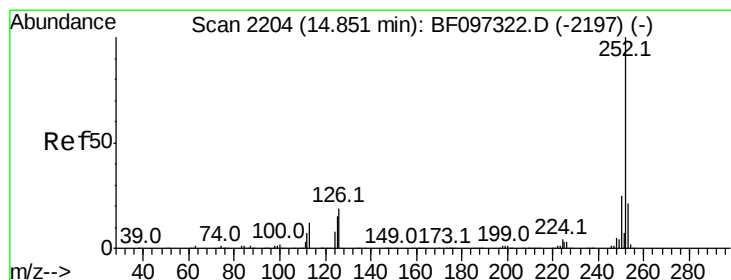
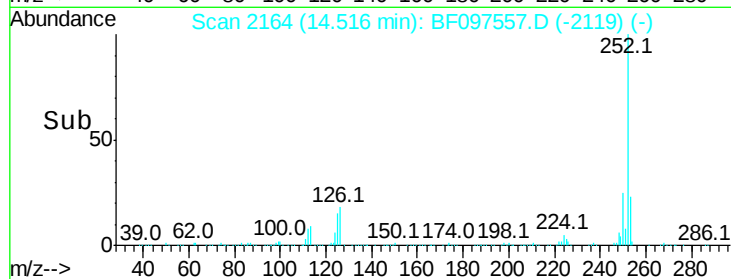
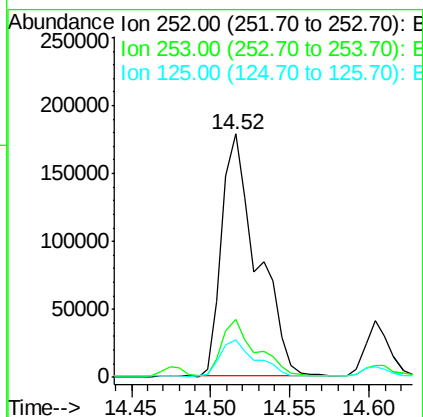
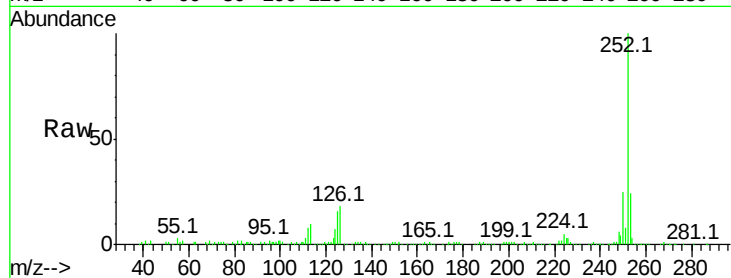




#88
Benzo(k)fluoranthene
Concen: 26.312 ng
RT: 14.52 min Scan# 2164
Delta R.T. -0.04 min
Lab File: BF097557.D
Acq: 10 Aug 2017 12:33

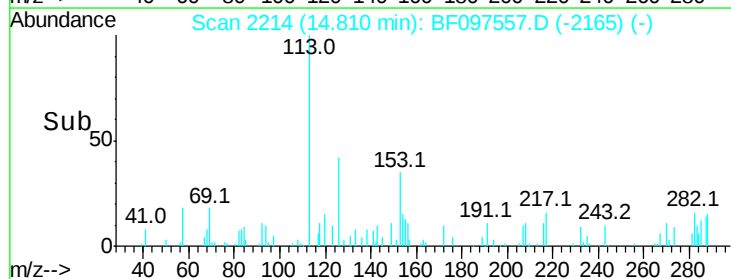
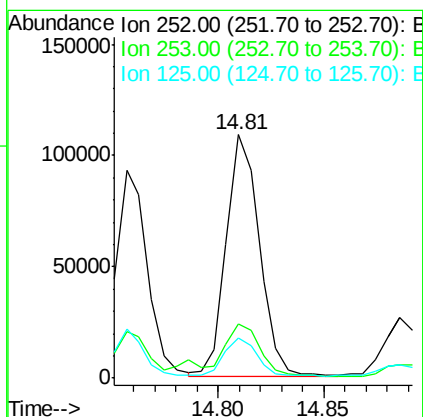
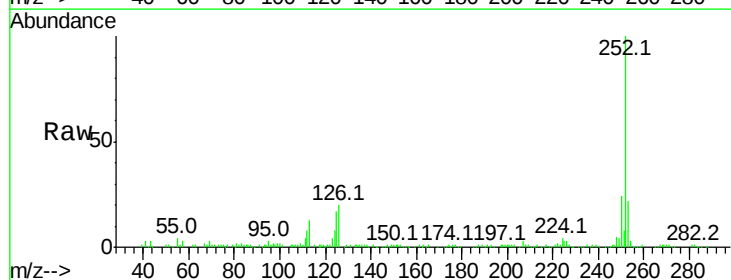
Instrument :
BNA_F
ClientSampleId :

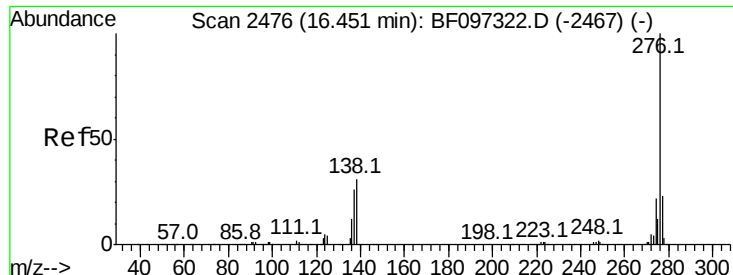
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.4	27.6
125	15.6	13.1	19.7



#89
Benzo(a)pyrene
Concen: 11.631 ng
RT: 14.81 min Scan# 2214
Delta R.T. -0.01 min
Lab File: BF097557.D
Acq: 10 Aug 2017 12:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3
125	16.7	11.0	16.4#





#91

Benzo(a,h,i)perylene

Concen: 7.029 ng

RT: 16.40 min Scan# 2485

Delta R.T. -0.01 min

Lab File: BF097557.D

Acq: 10 Aug 2017 12:33

Instrument :

BNA_F

ClientSampleId :

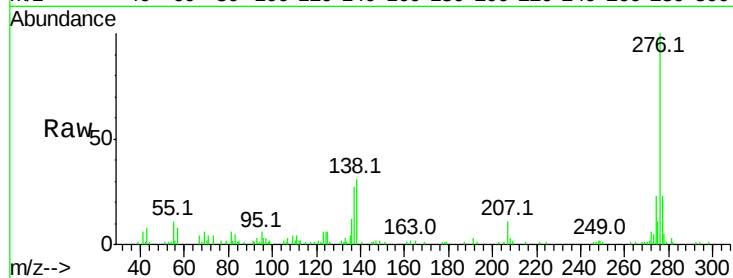
Tot Ion:276 Resp: 61621

Ion Ratio Lower Upper

276 100

277 22.5 18.6 28.0

138 31.0 25.4 38.0



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

