

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
 Data File : BF097779.D
 Acq On : 17 Aug 2017 10:33
 Operator : SJ/JU
 Sample : I4791-08 10X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 17 14:57:09 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 15 13:25:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.78	152	153246	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	573176	20.00	ng	0.00
38) Acenaphthene-d10	9.82	164	228890	20.00	ng	0.00
63) Phenanthrene-d10	11.30	188	334896	20.00	ng	0.00
75) Chrysene-d12	13.93	240	295901	20.00	ng	0.00
86) Perylene-d12	15.36	264	266496	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.37	112	105763	10.50	ng	-0.01
7) Phenol-d6	6.40	99	144162	10.53	ng	-0.01
23) Nitrobenzene-d5	7.33	82	85358	8.09	ng	-0.02
41) 2,4,6-Tribromophenol	10.60	330	13180	6.64	ng	-0.01
44) 2-Fluorobiphenyl	9.13	172	132115	8.48	ng	-0.01
78) Terphenyl-d14	12.88	244	66670	4.70	ng	-0.01

Target Compounds

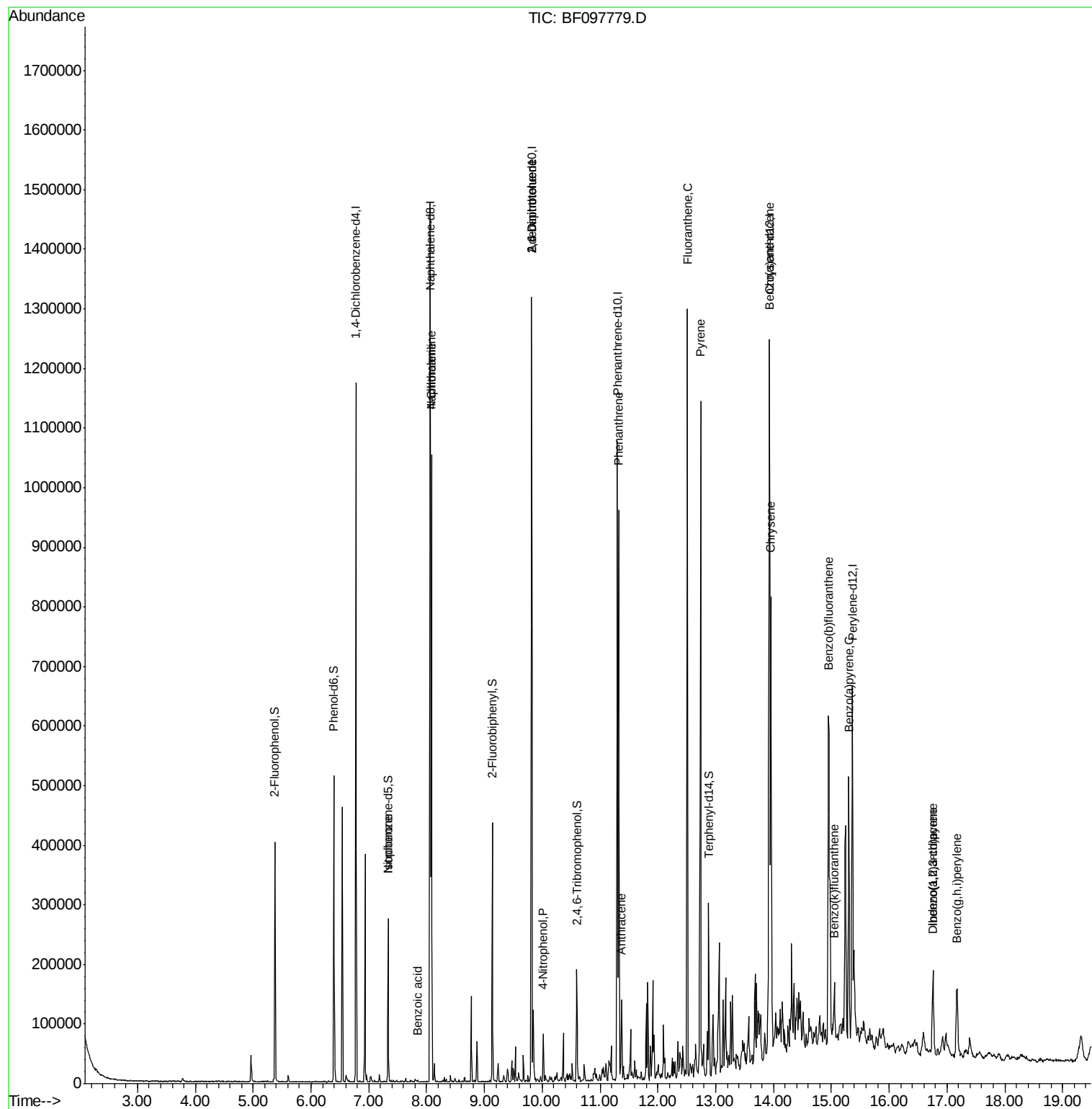
						Qvalue
25) Isophorone	7.33	82	85246	3.886	ng	# 67
31) Naphthalene	8.09	128	436792	14.679	ng	99
32) Benzoic acid	7.85	122	614	6.484	ng	# 23
33) 4-Chloroaniline	8.09	127	57631	4.592	ng	# 34
50) 2,6-Dinitrotoluene	9.82	165	29029	8.692	ng	# 35
55) 4-Nitrophenol	10.02	139	10097	2.938	ng	# 25
56) 2,4-Dinitrotoluene	9.82	165	29029	6.926	ng	# 34
70) Phenanthrene	11.32	178	301370	16.888	ng	98
71) Anthracene	11.37	178	48598	2.685	ng	98
74) Fluoranthene	12.51	202	457314	24.552	ng	99
77) Pyrene	12.74	202	460959	19.047	ng	97
80) Benzo(a)anthracene	13.92	228	256288	14.451	ng	97
82) Chrysene	13.96	228	257181	14.578	ng	97
85) Indeno(1,2,3-cd)pyrene	16.76	276	90200	6.950	ng	# 88
87) Benzo(b)fluoranthene	14.95	252	391663	23.316	ng	99
88) Benzo(k)fluoranthene	15.06	252	36784	2.331	ng	95
89) Benzo(a)pyrene	15.30	252	202977	13.649	ng	98
90) Dibenzo(a,h)anthracene	16.77	278	28385	2.345	ng	96
91) Benzo(a,h,i)perylene	17.17	276	87484	6.925	ng	93

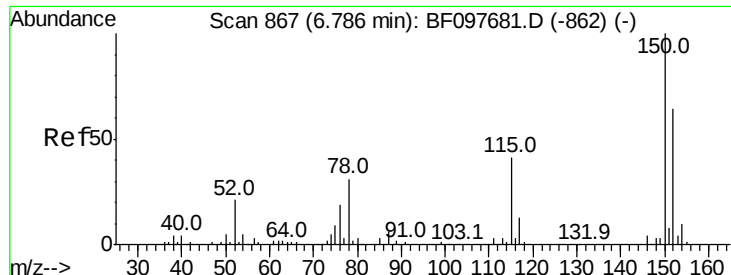
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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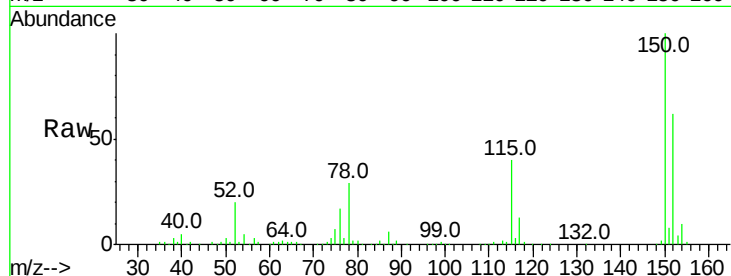


#1

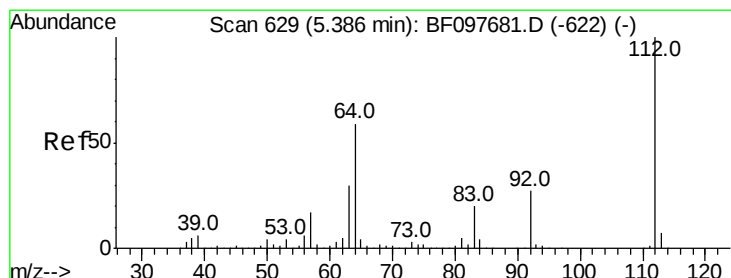
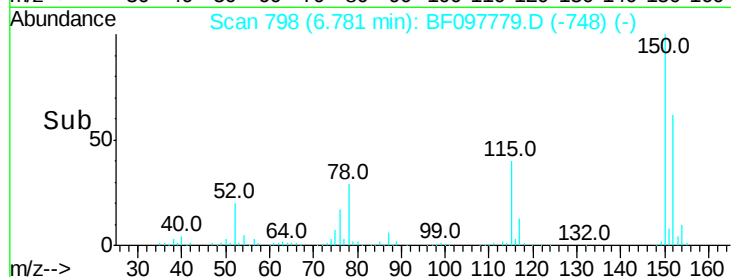
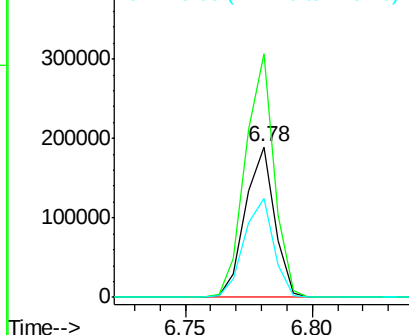
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.78 min Scan# 798
Delta R.T. -0.01 min
Lab File: BF097779.D
Acq: 17 Aug 2017 10:33

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 153246
Ion Ratio Lower Upper
152 100
150 161.4 126.2 189.2
115 65.2 52.2 78.2



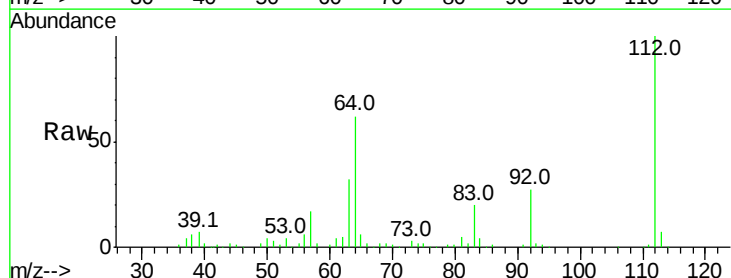
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



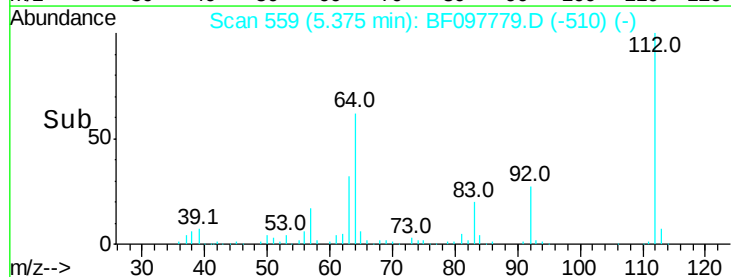
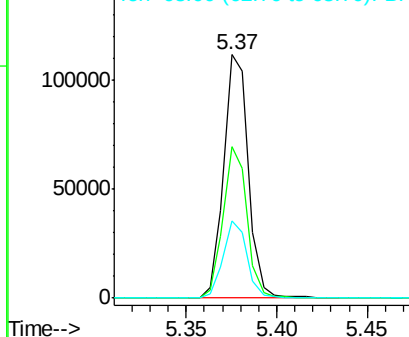
#5

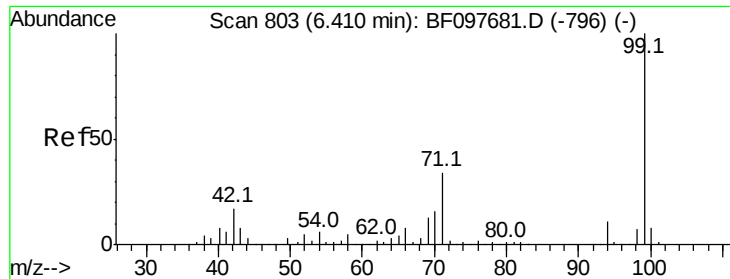
2-Fluorophenol
Concen: 10.498 ng
RT: 5.37 min Scan# 559
Delta R.T. -0.01 min
Lab File: BF097779.D
Acq: 17 Aug 2017 10:33

Tgt Ion:112 Resp: 105763
Ion Ratio Lower Upper
112 100
64 62.2 46.0 69.0
63 31.5 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 10.531 ng

RT: 6.40 min Scan# 733

Delta R.T. -0.01 min

Lab File: BF097779.D

Acq: 17 Aug 2017 10:33

Instrument :

BNA_F

ClientSampled :

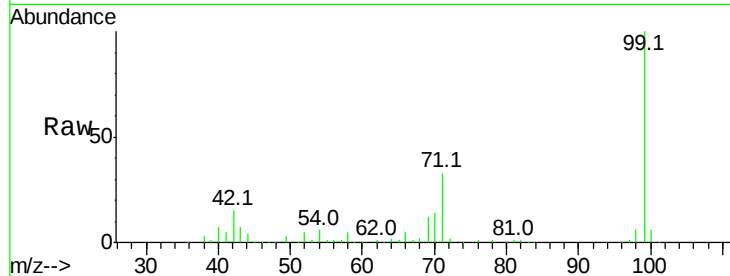
Tot Ion: 99 Resp: 144162

Ion Ratio Lower Upper

99 100

42 15.2 13.5 20.3

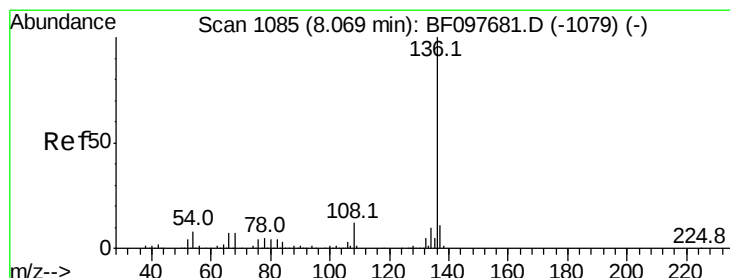
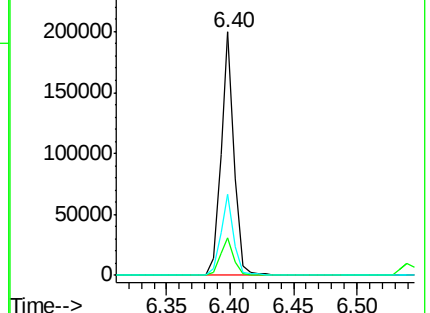
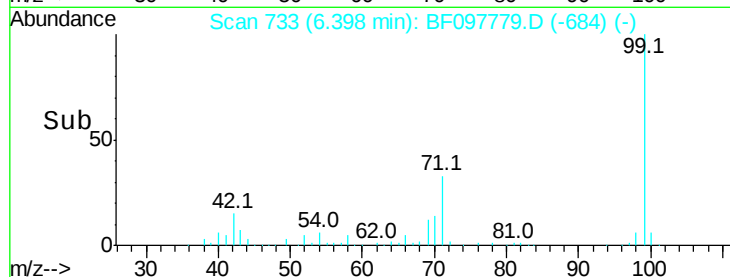
71 33.1 24.5 36.7



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.06 min Scan# 1016

Delta R.T. -0.01 min

Lab File: BF097779.D

Acq: 17 Aug 2017 10:33

Tgt Ion: 136 Resp: 573176

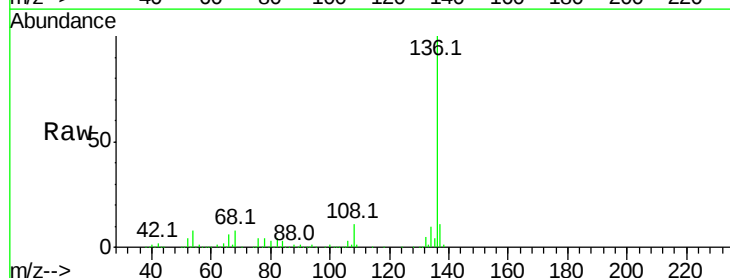
Ion Ratio Lower Upper

136 100

137 11.1 8.5 12.7

54 7.8 4.9 7.3#

68 7.5 4.1 6.1#

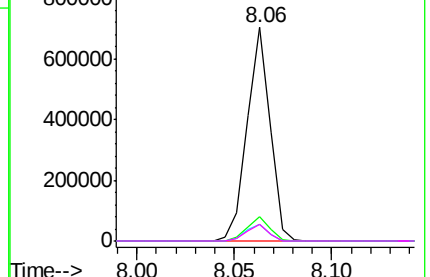
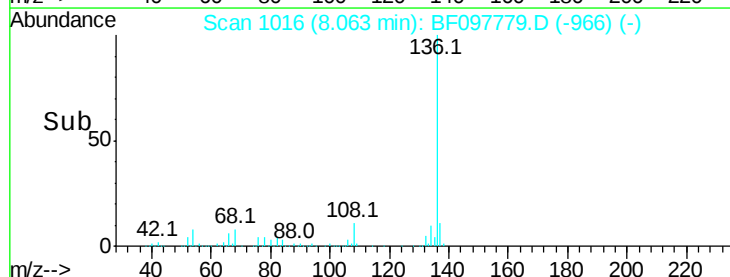


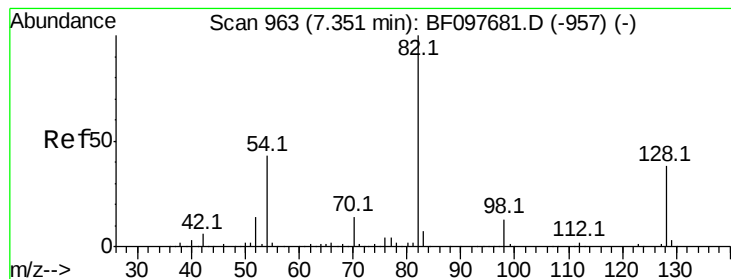
Abundance Ion 136.00 (135.70 to 136.70): E

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: 8.090 ng

RT: 7.33 min Scan# 892

Delta R.T. -0.02 min

Lab File: BF097779.D

Acq: 17 Aug 2017 10:33

Instrument :

BNA_F

ClientSampleId :

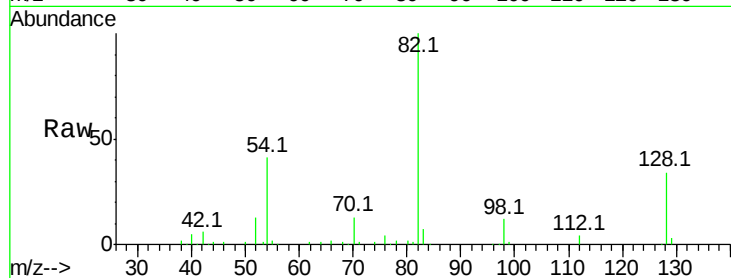
Tot Ion: 82 Resp: 85358

Ion Ratio Lower Upper

82 100

128 34.0 34.0 51.0

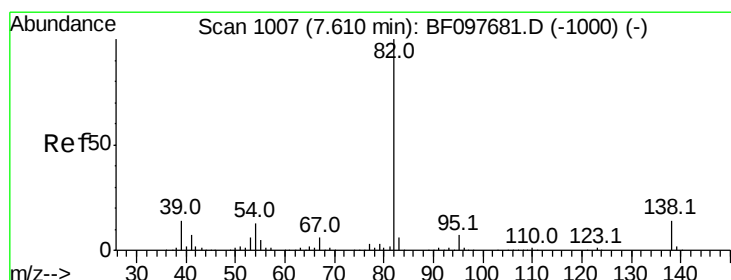
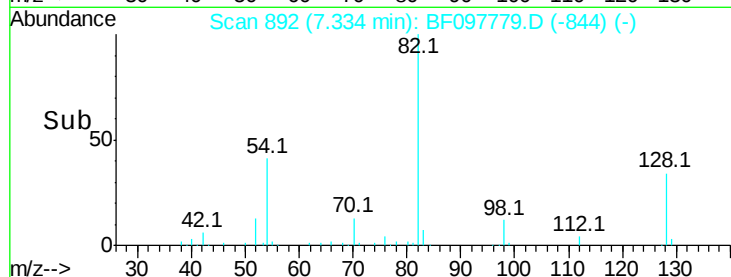
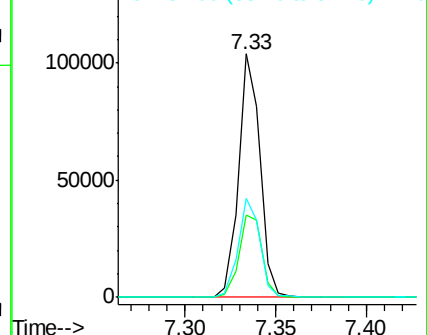
54 40.7 42.2 63.2#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#25

Isophorone

Concen: 3.886 ng

RT: 7.33 min Scan# 892

Delta R.T. -0.28 min

Lab File: BF097779.D

Acq: 17 Aug 2017 10:33

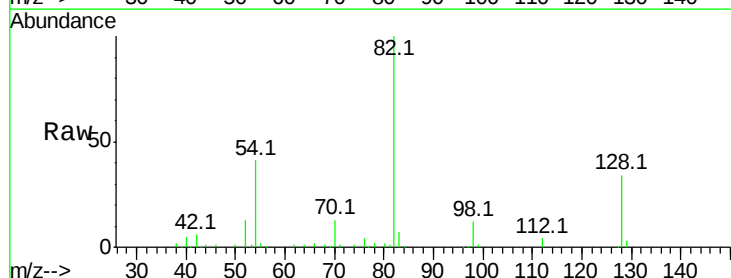
Tgt Ion: 82 Resp: 85246

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

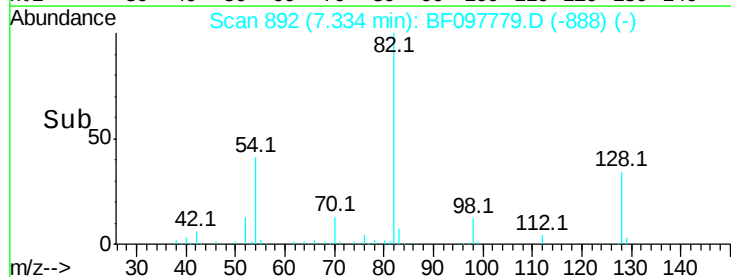
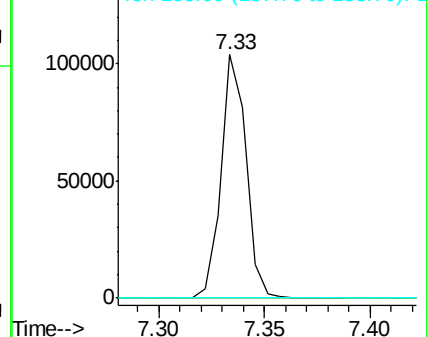
138 0.0 13.1 19.7#

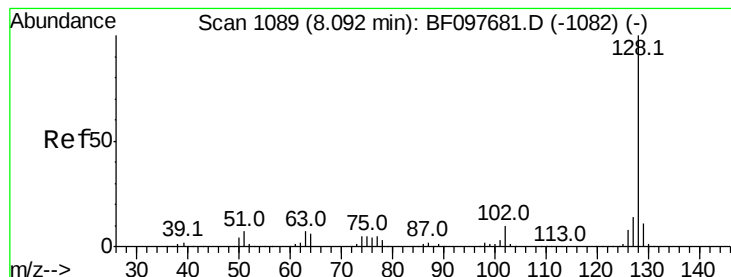


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0





#31

Naphthalene

Concen: 14.679 ng

RT: 8.09 min Scan# 1020

Delta R.T. -0.01 min

Lab File: BF097779.D

Acq: 17 Aug 2017 10:33

Instrument :

BNA_F

ClientSampleId :

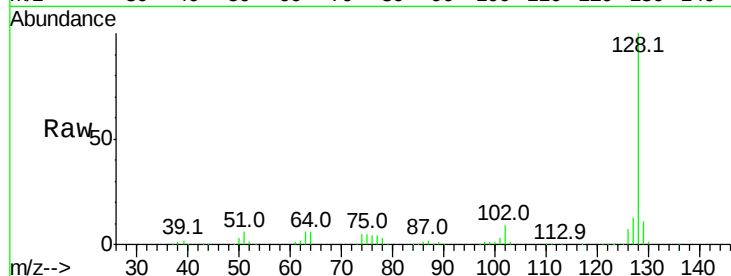
Tot Ion:128 Resp: 436792

Ion Ratio Lower Upper

128 100

129 10.8 9.0 13.6

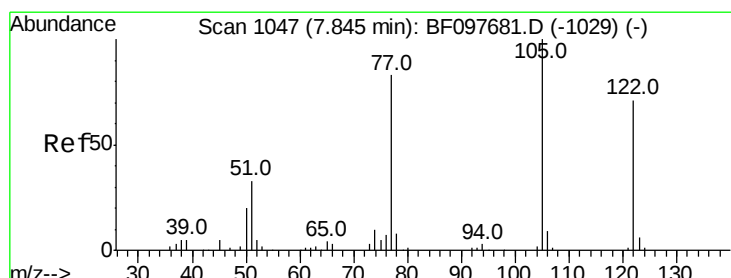
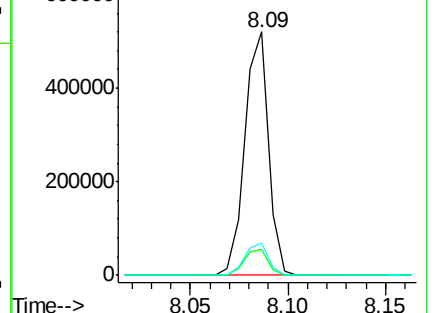
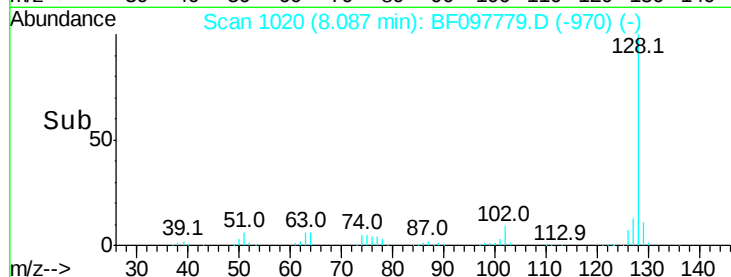
127 13.2 10.8 16.2



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



#32

Benzoic acid

Concen: 6.484 ng

RT: 7.85 min Scan# 979

Delta R.T. 0.00 min

Lab File: BF097779.D

Acq: 17 Aug 2017 10:33

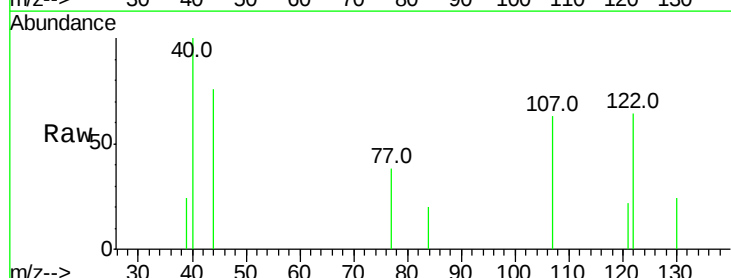
Tgt Ion:122 Resp: 614

Ion Ratio Lower Upper

122 100

105 0.0 103.3 143.3#

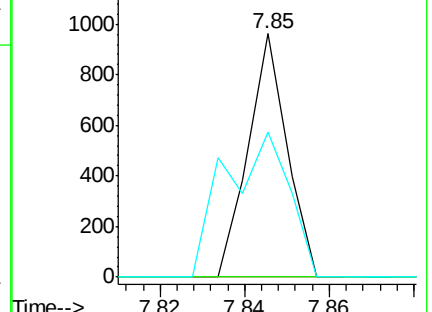
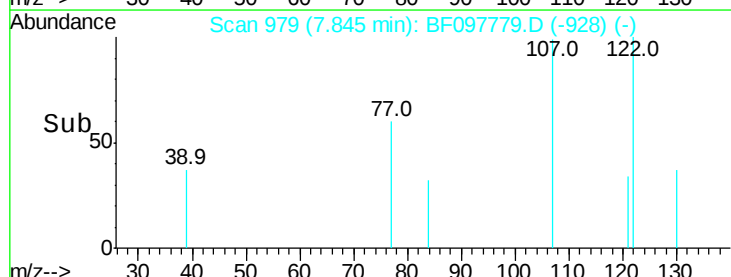
77 59.8 73.7 113.7#

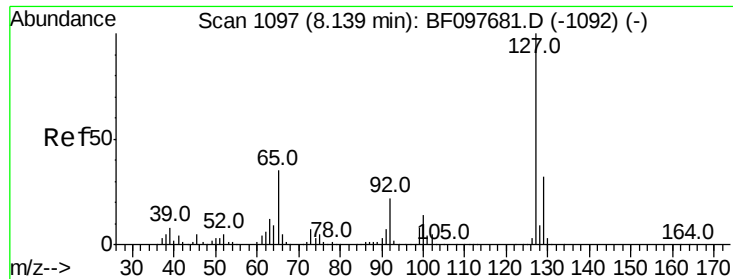


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0

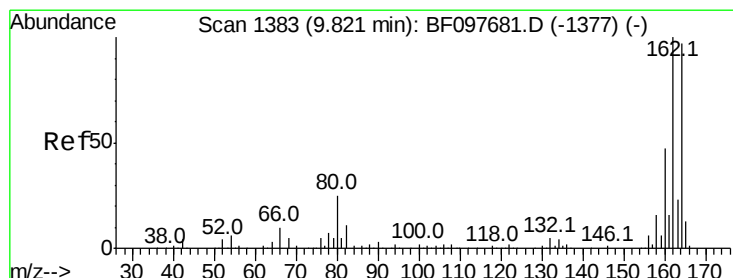
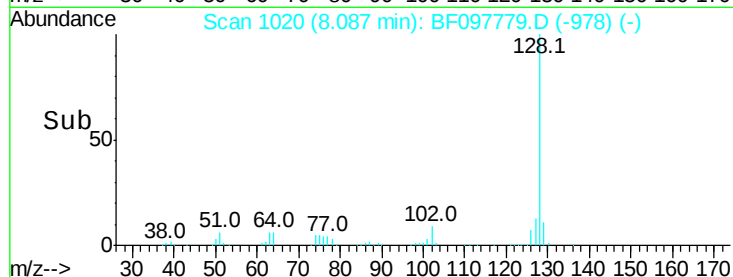
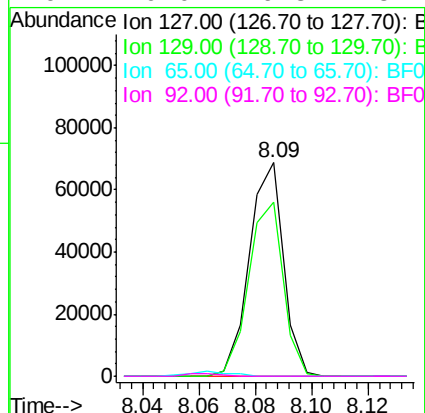
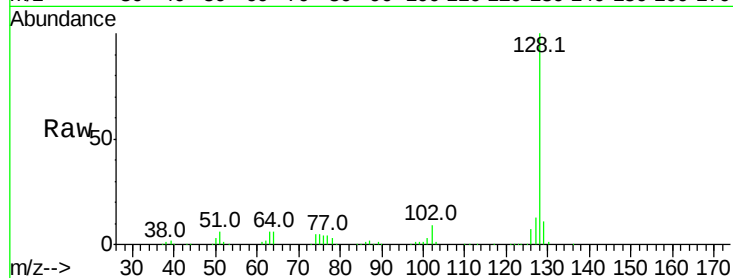




#33
4-Chloroaniline
Concen: 4.592 ng
RT: 8.09 min Scan# 1020
Delta R.T. -0.05 min
Lab File: BF097779.D
Acq: 17 Aug 2017 10:33

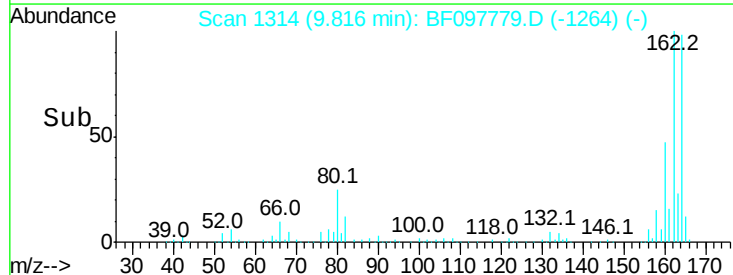
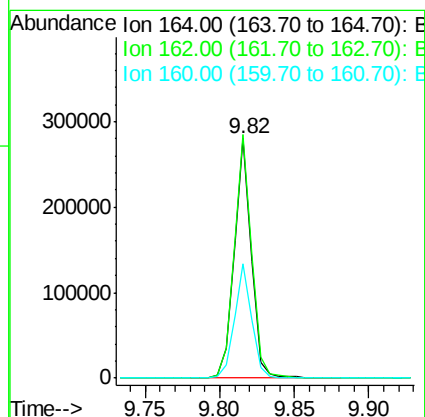
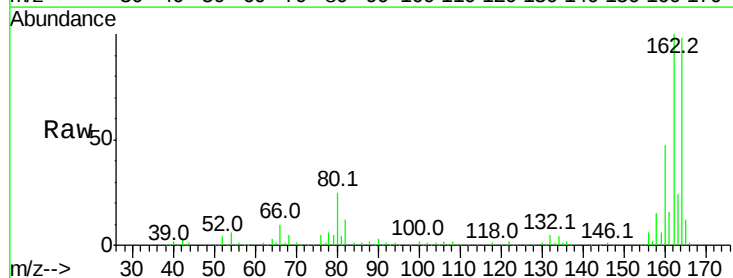
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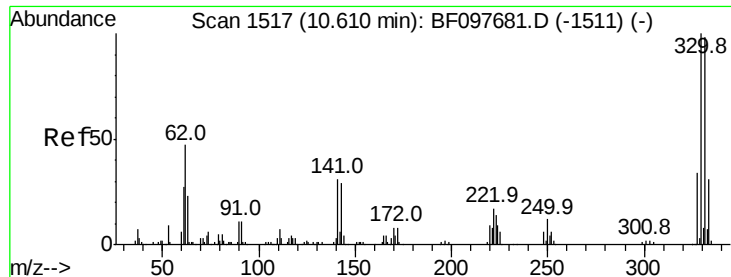
Tot Ion:	127	Resp:	57631
Ion	Ratio	Lower	Upper
127	100		
129	81.6	26.2	39.2#
65	0.0	27.8	41.8#
92	0.0	16.8	25.2#



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.82 min Scan# 1314
Delta R.T. -0.01 min
Lab File: BF097779.D
Acq: 17 Aug 2017 10:33

Tgt Ion:	164	Resp:	228890
Ion	Ratio	Lower	Upper
164	100		
162	101.8	82.6	123.8
160	48.0	36.2	54.2

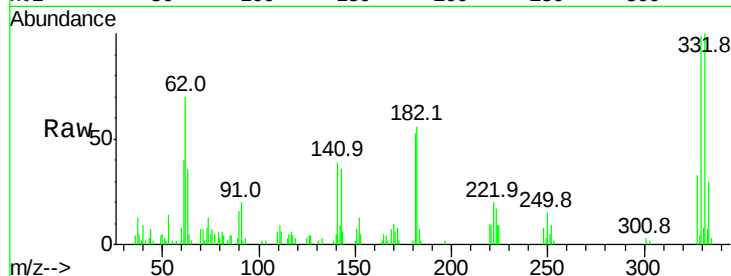




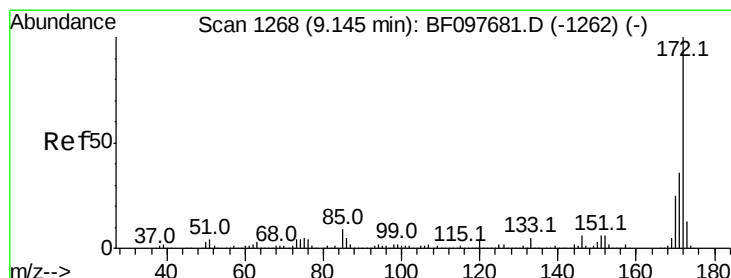
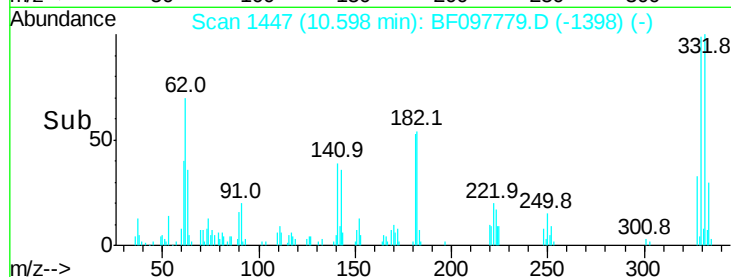
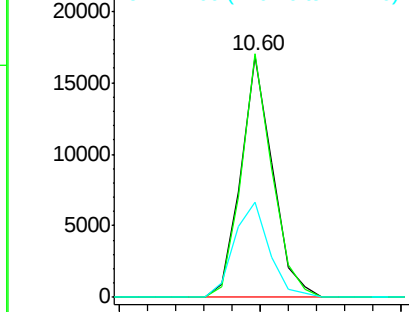
#41
 2,4,6-Tribromophenol
 Concen: 6.636 ng
 RT: 10.60 min Scan# 1447
 Delta R.T. -0.01 min
 Lab File: BF097779.D
 Acq: 17 Aug 2017 10:33

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 13180
 Ion Ratio Lower Upper
 330 100
 332 98.2 76.6 115.0
 141 43.7 31.4 47.2

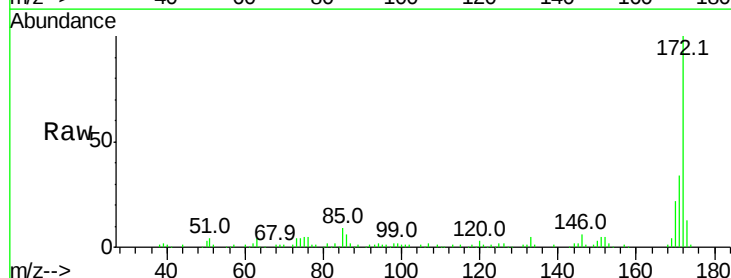


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

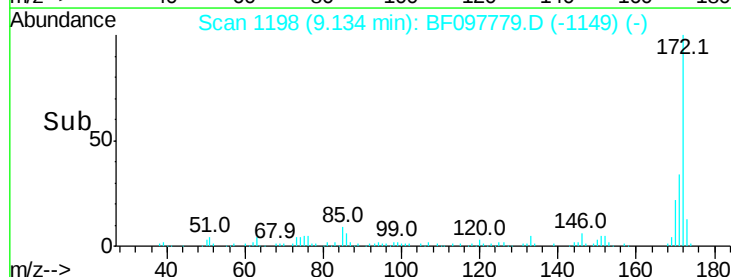
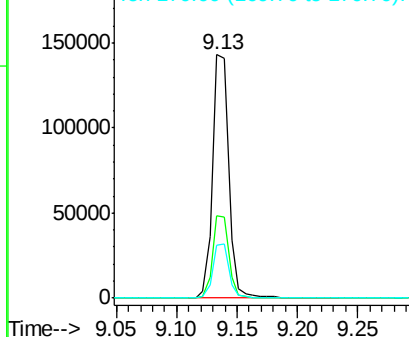


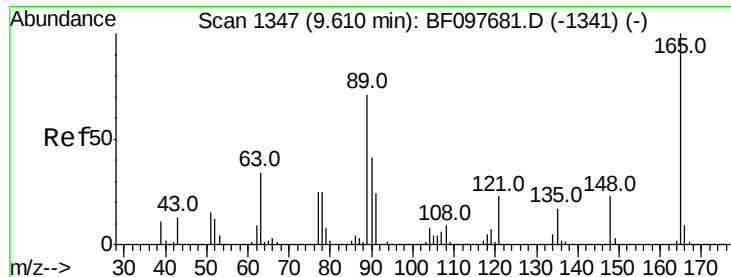
#44
 2-Fluorobiphenyl
 Concen: 8.480 ng
 RT: 9.13 min Scan# 1198
 Delta R.T. -0.01 min
 Lab File: BF097779.D
 Acq: 17 Aug 2017 10:33

Tgt Ion:172 Resp: 132115
 Ion Ratio Lower Upper
 172 100
 171 33.8 29.6 44.4
 170 21.8 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

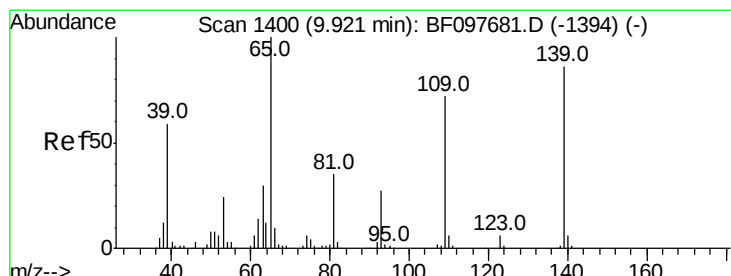
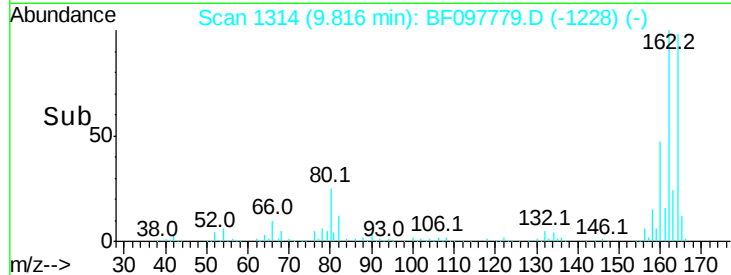
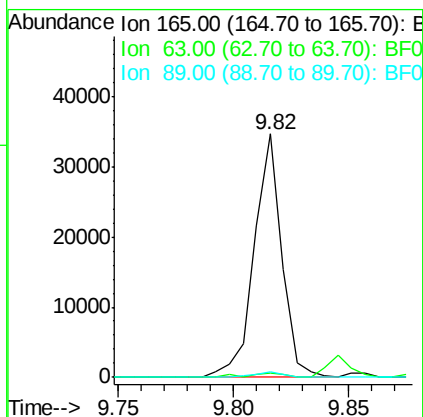
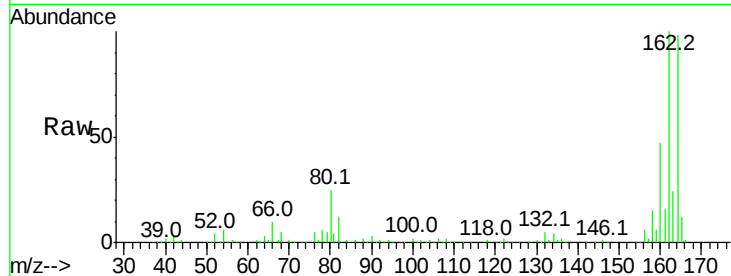




#50
 2,6-Dinitrotoluene
 Concen: 8.692 ng
 RT: 9.82 min Scan# 1314
 Delta R.T. 0.21 min
 Lab File: BF097779.D
 Acq: 17 Aug 2017 10:33

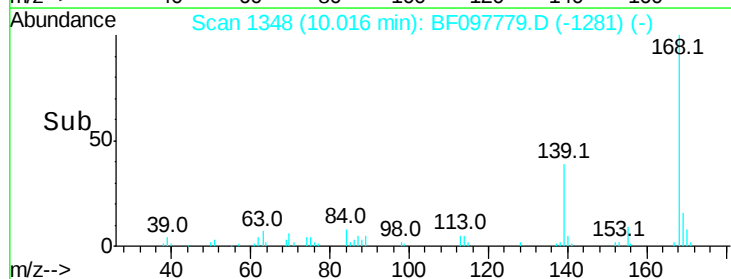
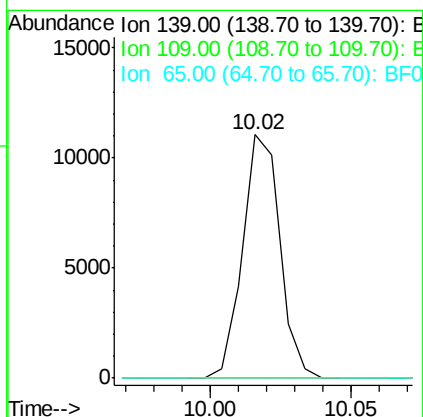
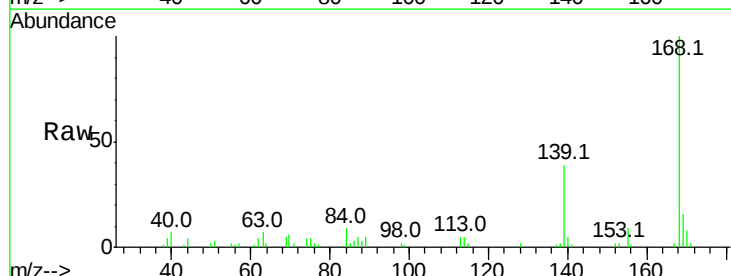
Instrument :
 BNA_F
 ClientSampleId :

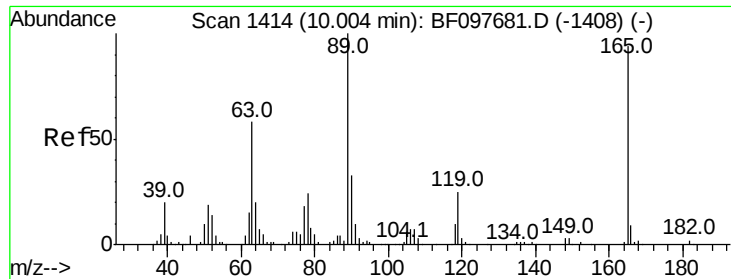
Tot Ion:165	Resp:	29029
Ion Ratio	Lower	Upper
165 100		
63 1.6	34.3	51.5#
89 2.5	37.1	55.7#



#55
 4-Nitrophenol
 Concen: 2.938 ng
 RT: 10.02 min Scan# 1348
 Delta R.T. 0.09 min
 Lab File: BF097779.D
 Acq: 17 Aug 2017 10:33

Tgt Ion:139	Resp:	10097
Ion Ratio	Lower	Upper
139 100		
109 0.0	34.1	74.1#
65 0.0	31.4	71.4#

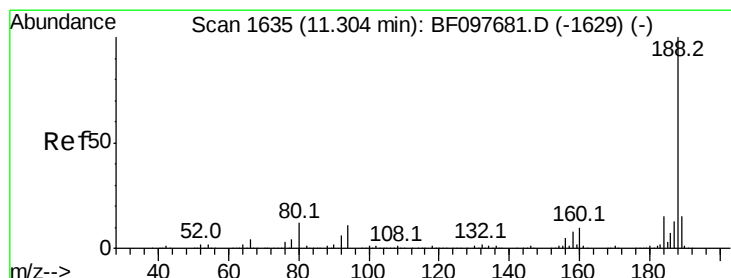
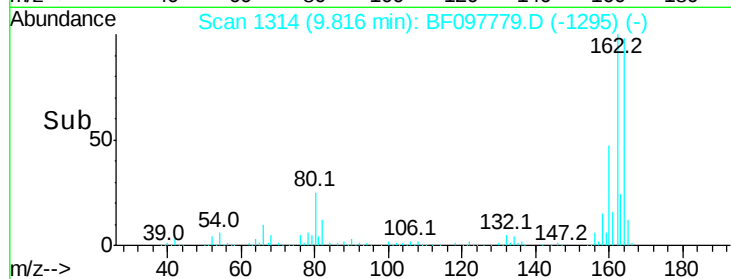
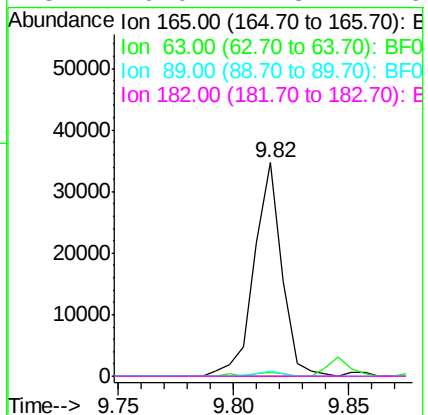
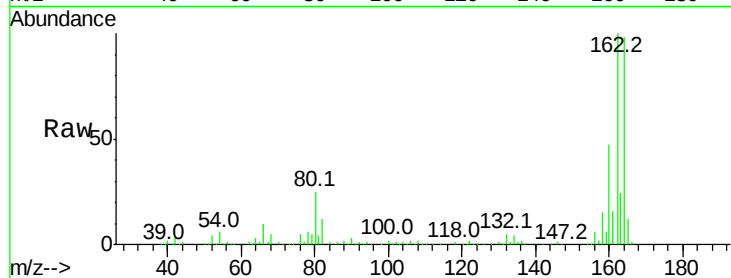




#56
 2,4-Dinitrotoluene
 Concen: 6.926 ng
 RT: 9.82 min Scan# 1314
 Delta R.T. -0.19 min
 Lab File: BF097779.D
 Acq: 17 Aug 2017 10:33

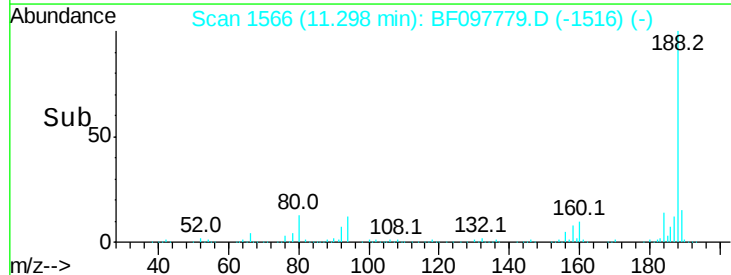
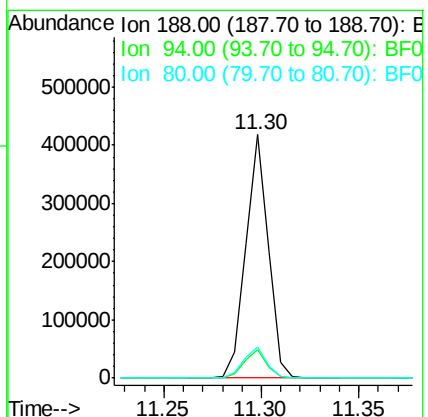
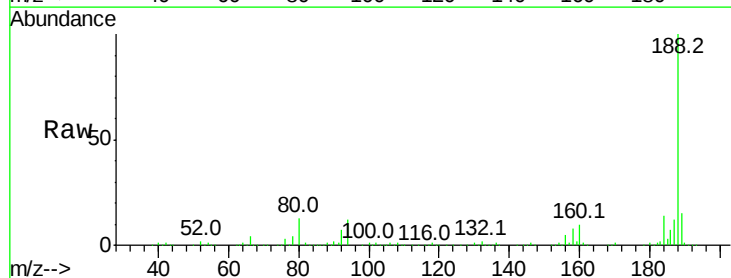
Instrument :
 BNA_F
 ClientSampleId :

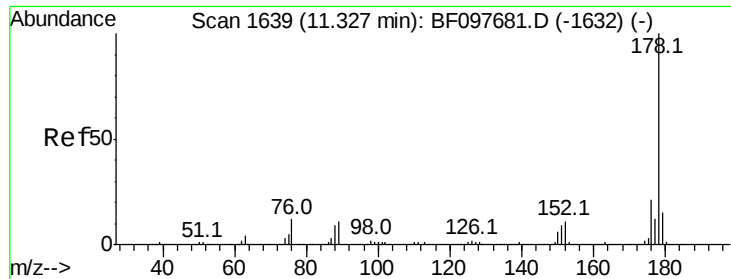
Tot Ion:165 Resp: 29029
 Ion Ratio Lower Upper
 165 100
 63 1.6 25.4 38.0#
 89 2.5 46.4 69.6#
 182 0.0 1.8 2.6#



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.30 min Scan# 1566
 Delta R.T. -0.01 min
 Lab File: BF097779.D
 Acq: 17 Aug 2017 10:33

Tgt Ion:188 Resp: 334896
 Ion Ratio Lower Upper
 188 100
 94 11.8 9.4 14.2
 80 12.8 10.2 15.2

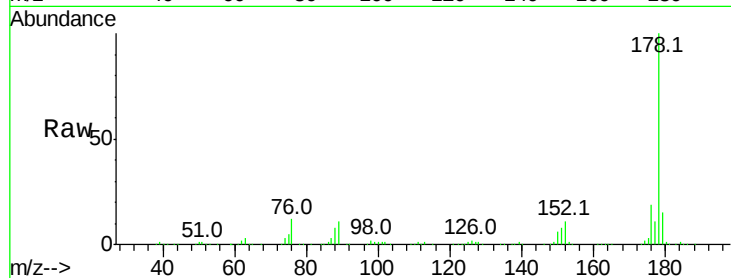




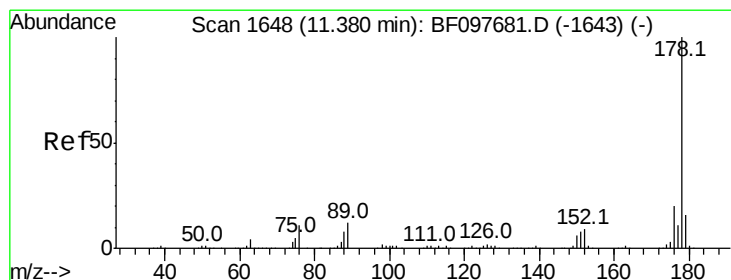
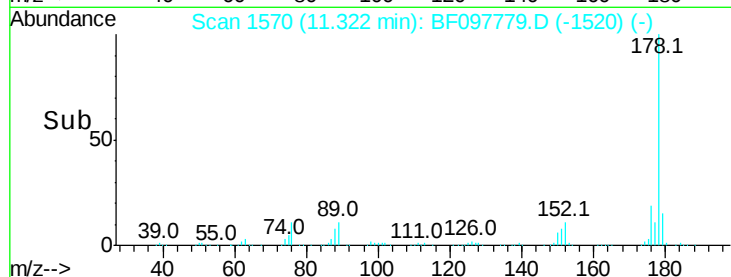
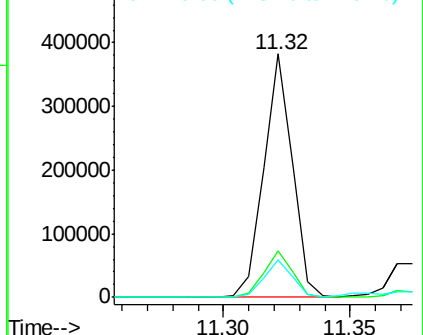
#70
Phenanthrene
Concen: 16.888 ng
RT: 11.32 min Scan# 1570
Delta R.T. -0.01 min
Lab File: BF097779.D
Acq: 17 Aug 2017 10:33

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 301370
Ion Ratio Lower Upper
178 100
176 19.3 16.2 24.4
179 15.2 12.6 19.0

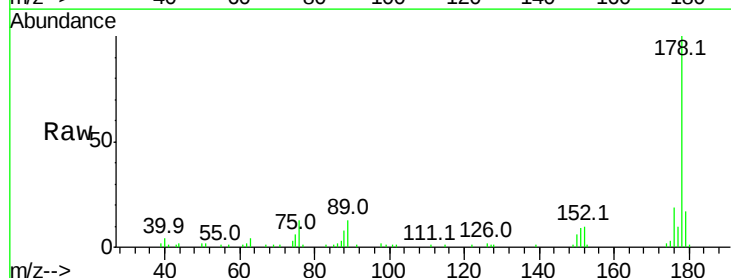


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

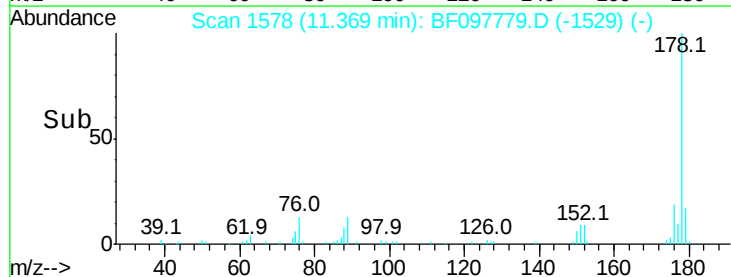
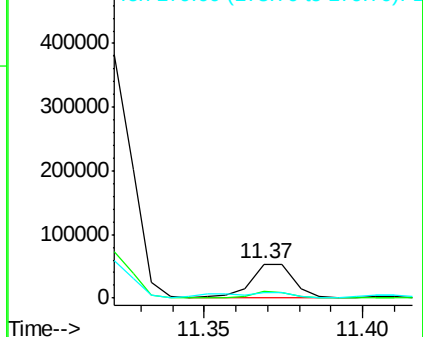


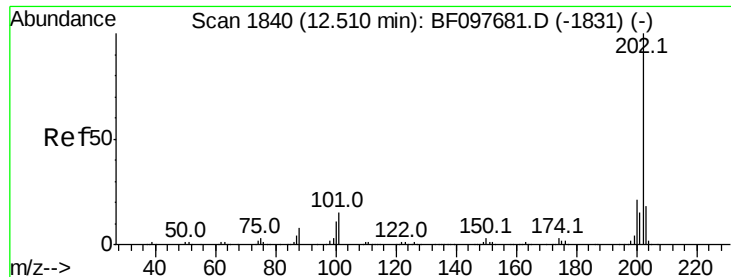
#71
Anthracene
Concen: 2.685 ng
RT: 11.37 min Scan# 1578
Delta R.T. -0.01 min
Lab File: BF097779.D
Acq: 17 Aug 2017 10:33

Tgt Ion:178 Resp: 48598
Ion Ratio Lower Upper
178 100
176 19.2 15.8 23.8
179 16.8 12.7 19.1



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: 24.552 ng

RT: 12.51 min Scan# 1772

Delta R.T. 0.00 min

Lab File: BF097779.D

Acq: 17 Aug 2017 10:33

Instrument :

BNA_F

ClientSampleId :

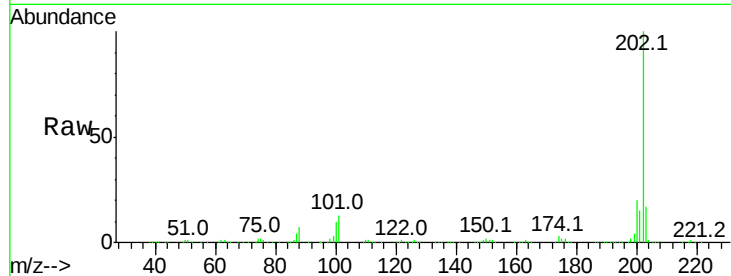
Tot Ion:202 Resp: 457314

Ion Ratio Lower Upper

202 100

101 13.1 0.0 33.2

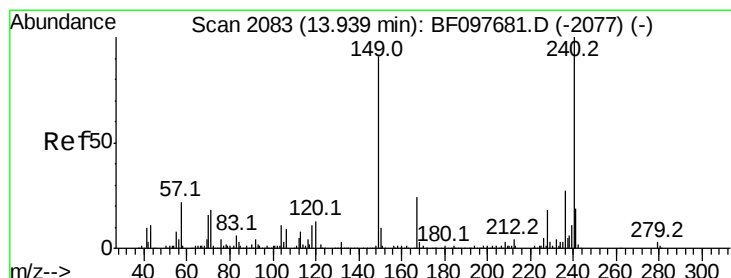
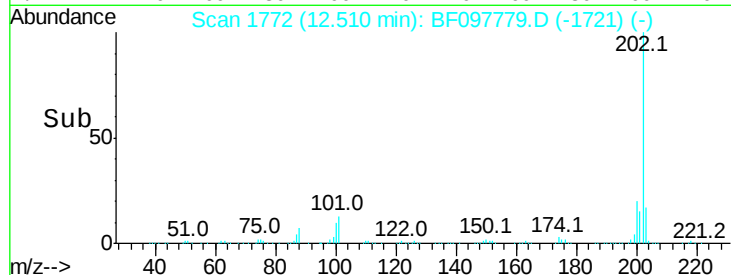
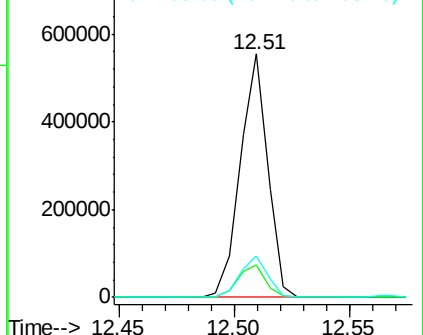
203 17.1 0.0 38.1



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: 20.000 ng

RT: 13.93 min Scan# 2014

Delta R.T. -0.01 min

Lab File: BF097779.D

Acq: 17 Aug 2017 10:33

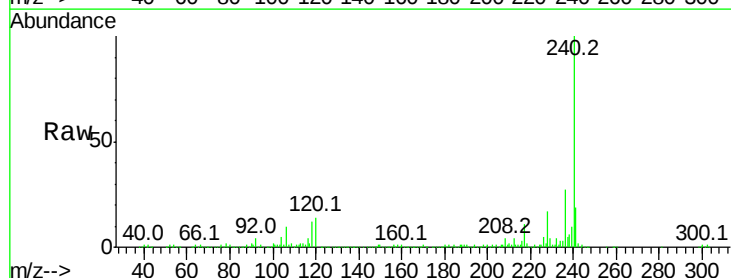
Tgt Ion:240 Resp: 295901

Ion Ratio Lower Upper

240 100

120 13.8 5.8 8.8#

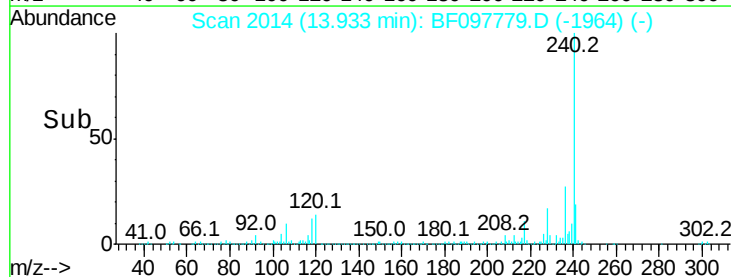
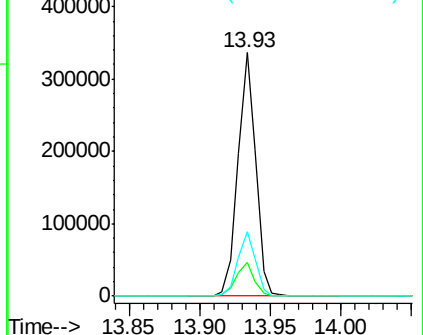
236 26.6 20.5 30.7

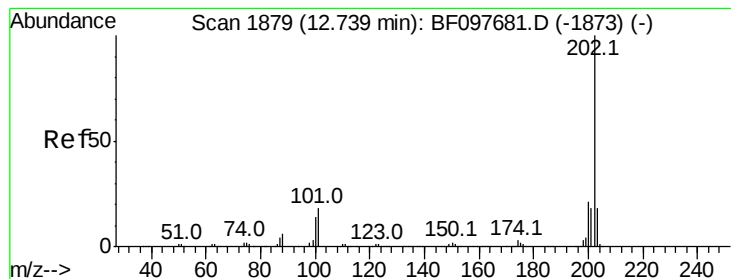


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 19.047 ng

RT: 12.74 min Scan# 1811

Delta R.T. 0.00 min

Lab File: BF097779.D

Acq: 17 Aug 2017 10:33

Instrument :

BNA_F

ClientSampleId :

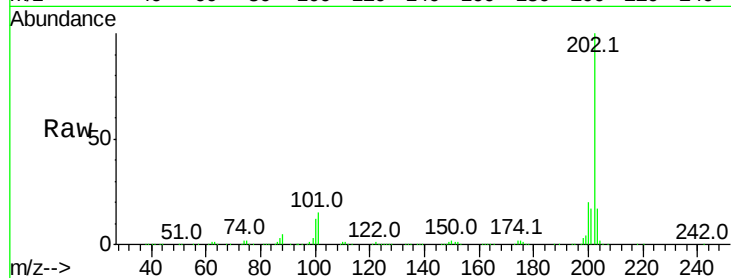
Tot Ion:202 Resp: 460959

Ion Ratio Lower Upper

202 100

200 20.2 17.6 26.4

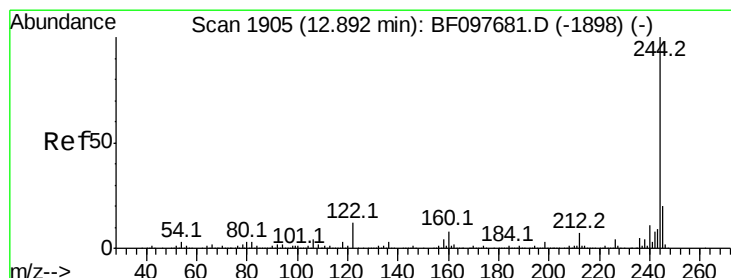
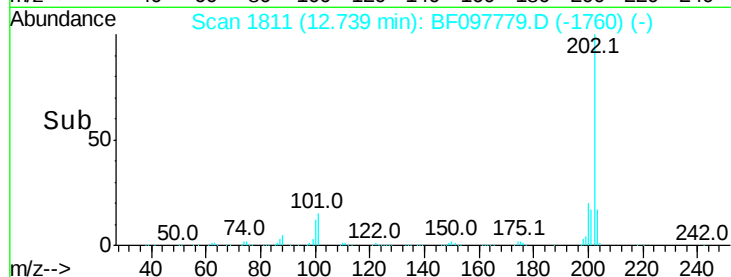
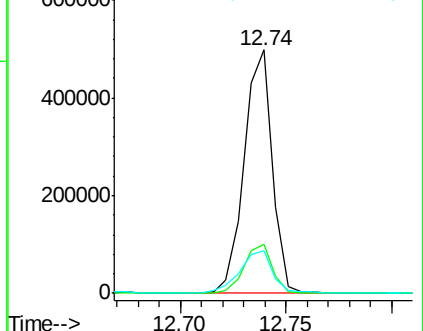
203 17.3 14.4 21.6



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: 4.699 ng

RT: 12.88 min Scan# 1835

Delta R.T. -0.01 min

Lab File: BF097779.D

Acq: 17 Aug 2017 10:33

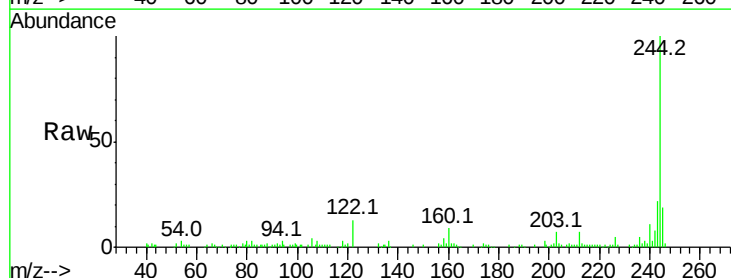
Tgt Ion:244 Resp: 66670

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

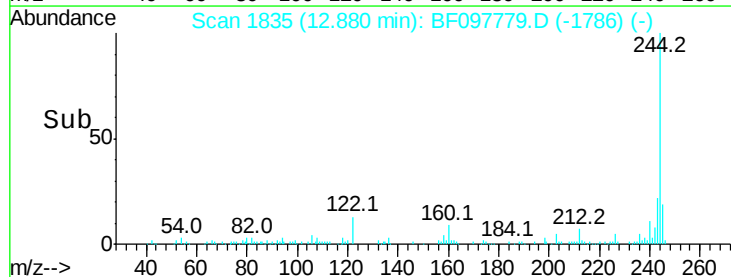
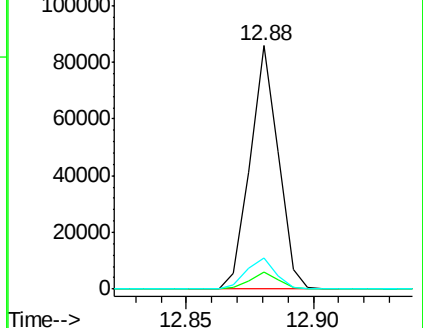
122 12.8 10.3 15.5

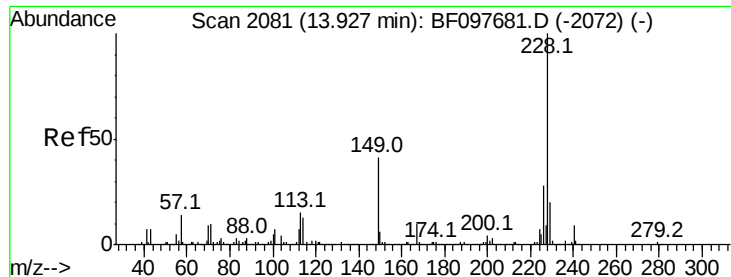


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 14.451 ng

RT: 13.92 min Scan# 2012

Delta R.T. -0.01 min

Lab File: BF097779.D

Acq: 17 Aug 2017 10:33

Instrument :

BNA_F

ClientSampleId :

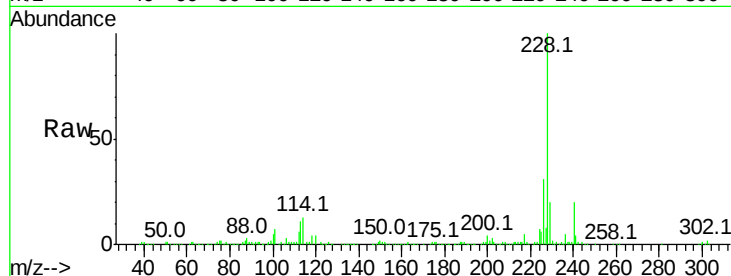
Tot Ion:228 Resp: 256288

Ion Ratio Lower Upper

228 100

226 30.8 22.6 33.8

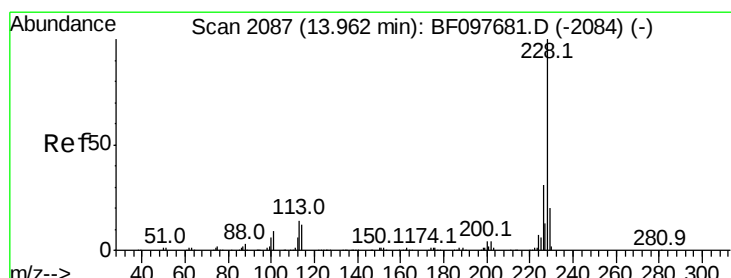
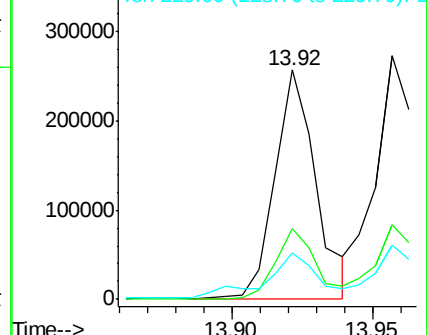
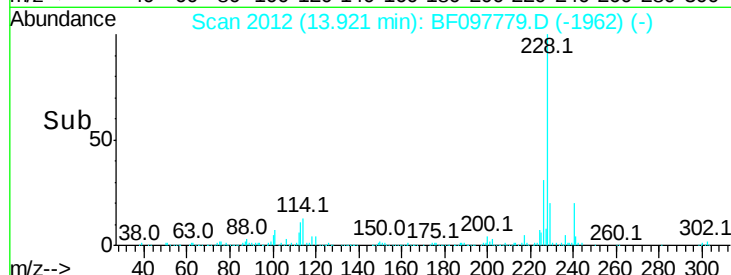
229 20.3 16.3 24.5



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: 14.578 ng

RT: 13.96 min Scan# 2018

Delta R.T. -0.01 min

Lab File: BF097779.D

Acq: 17 Aug 2017 10:33

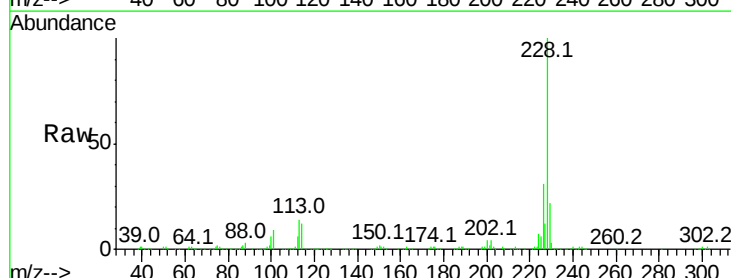
Tgt Ion:228 Resp: 257181

Ion Ratio Lower Upper

228 100

226 30.9 24.9 37.3

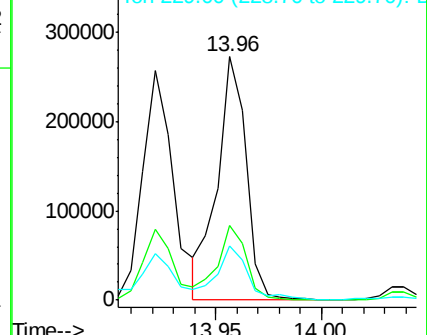
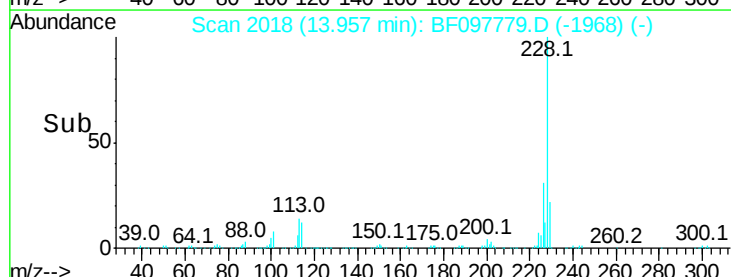
229 22.3 15.8 23.6

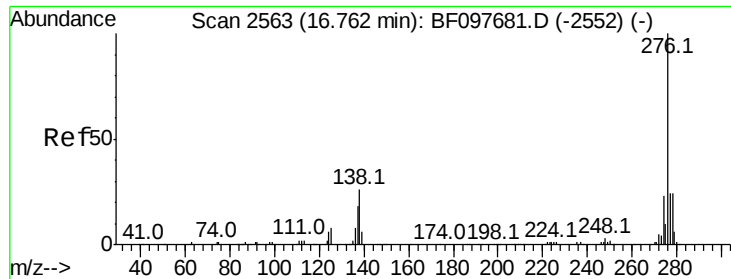


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

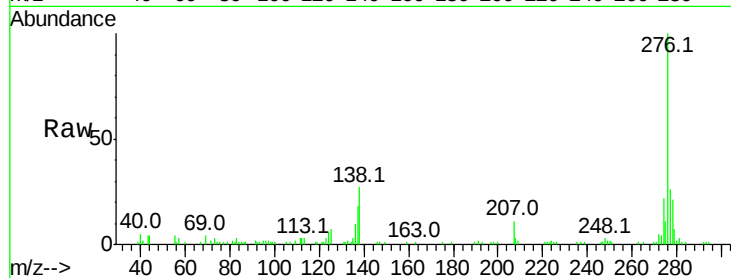




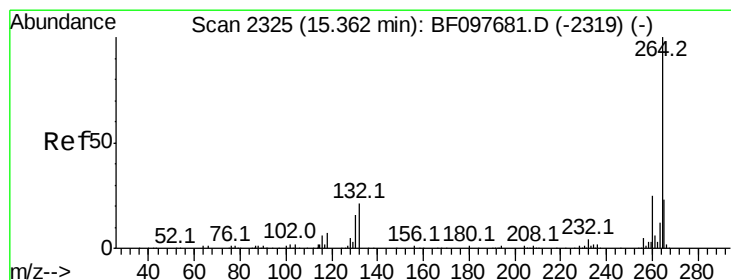
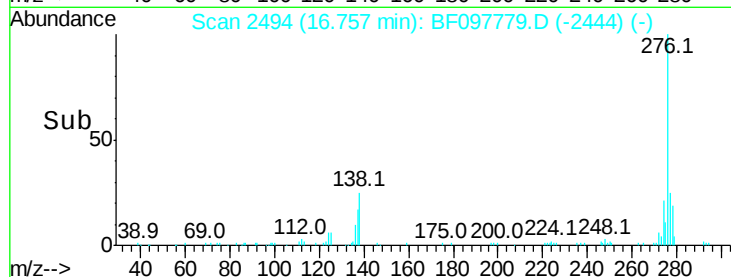
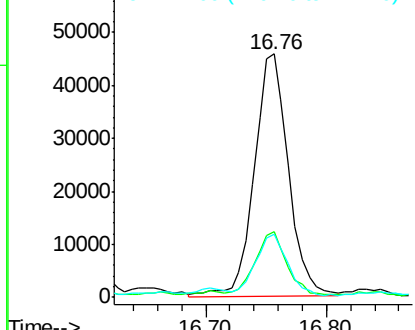
#85
Indeno(1,2,3-cd)pyrene
Concen: 6.950 ng
RT: 16.76 min Scan# 2494
Delta R.T. -0.01 min
Lab File: BF097779.D
Acq: 17 Aug 2017 10:33

Instrument :
BNA_F
ClientSampleId :

Tot Ion:276 Resp: 90200
Ion Ratio Lower Upper
276 100
138 23.8 27.8 41.6#
277 24.3 20.2 30.4

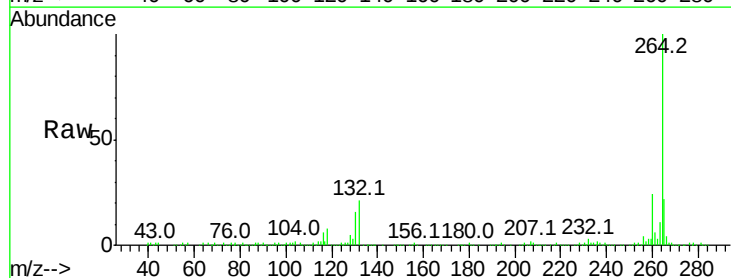


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

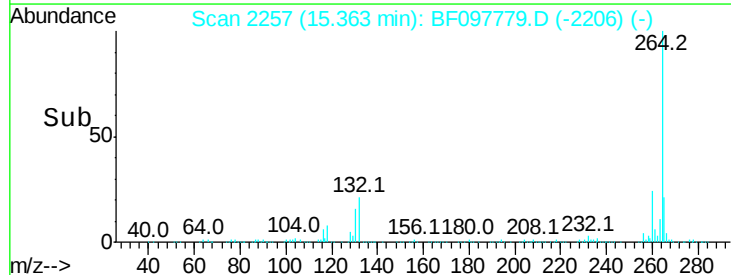
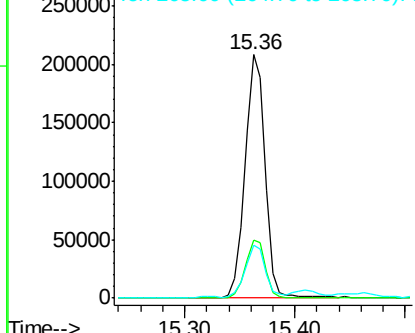


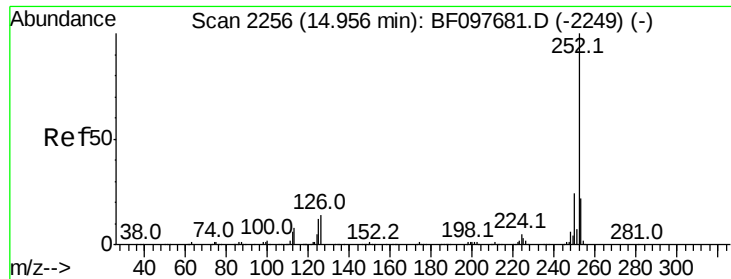
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.36 min Scan# 2257
Delta R.T. 0.00 min
Lab File: BF097779.D
Acq: 17 Aug 2017 10:33

Tgt Ion:264 Resp: 266496
Ion Ratio Lower Upper
264 100
260 23.7 19.5 29.3
265 21.6 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

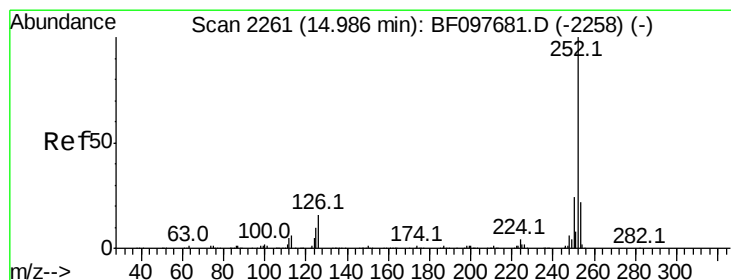
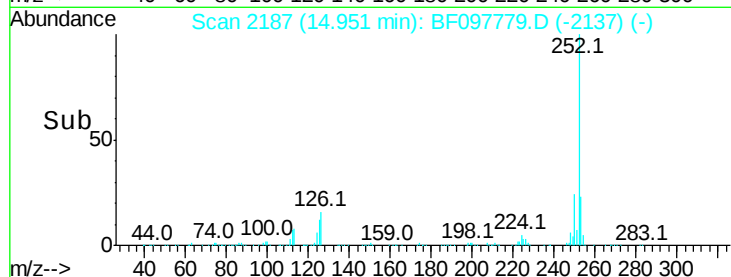
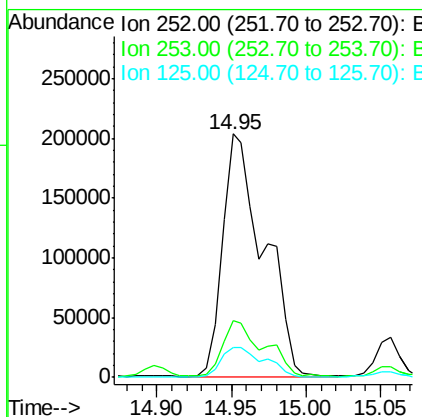
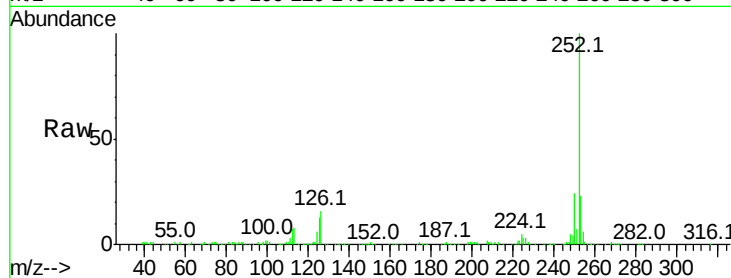




#87
Benzo(b)fluoranthene
Concen: 23.316 ng
RT: 14.95 min Scan# 2187
Delta R.T. -0.01 min
Lab File: BF097779.D
Acq: 17 Aug 2017 10:33

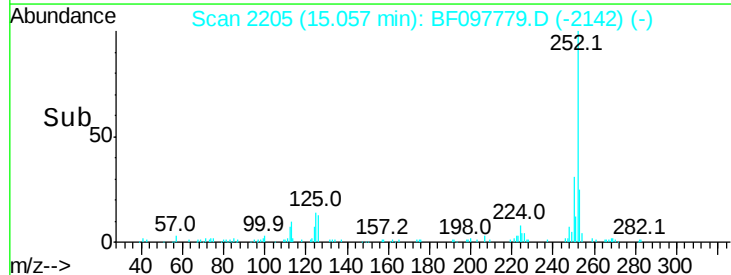
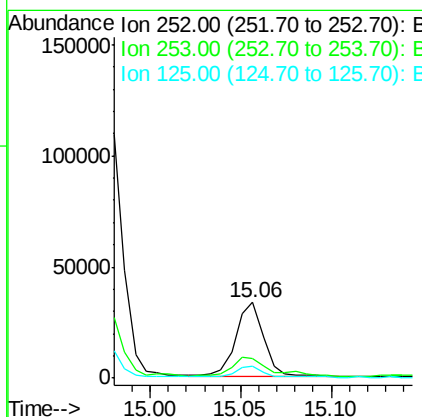
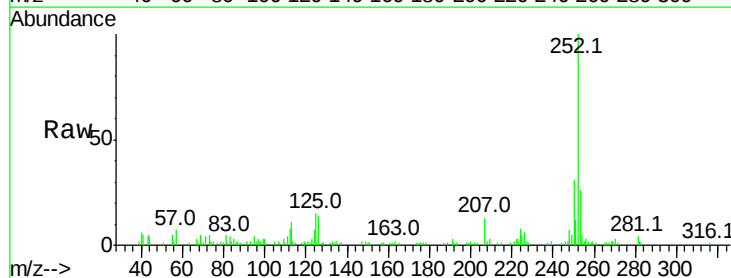
Instrument :
BNA_F
ClientSampleId :

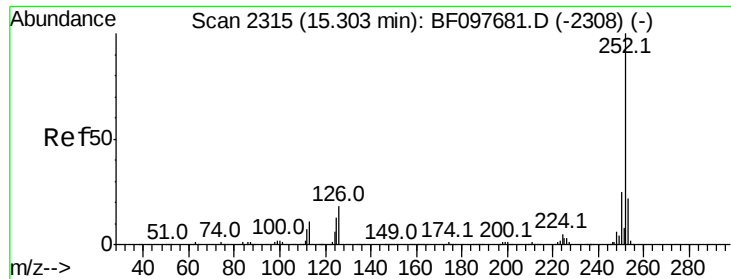
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.1	27.1
125	12.5	9.8	14.8



#88
Benzo(k)fluoranthene
Concen: 2.331 ng
RT: 15.06 min Scan# 2205
Delta R.T. 0.07 min
Lab File: BF097779.D
Acq: 17 Aug 2017 10:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.1	18.4	27.6
125	15.1	13.1	19.7





#89

Benzo(a)pyrene

Concen: 13.649 ng

RT: 15.30 min Scan# 2247

Delta R.T. 0.00 min

Lab File: BF097779.D

Acq: 17 Aug 2017 10:33

Instrument :

BNA_F

ClientSampleId :

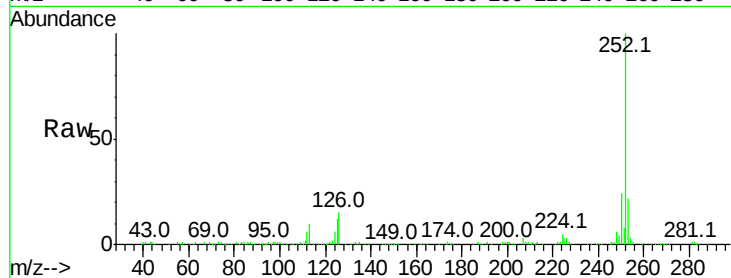
Tot Ion:252 Resp: 202977

Ion Ratio Lower Upper

252 100

253 21.9 17.5 26.3

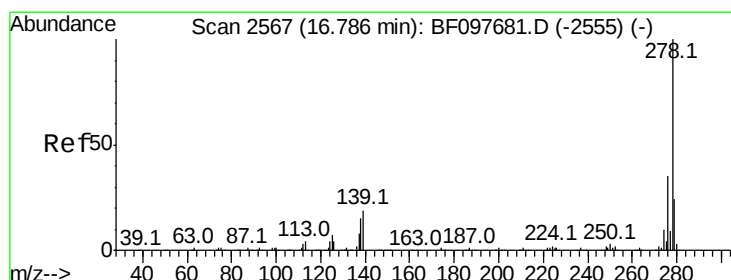
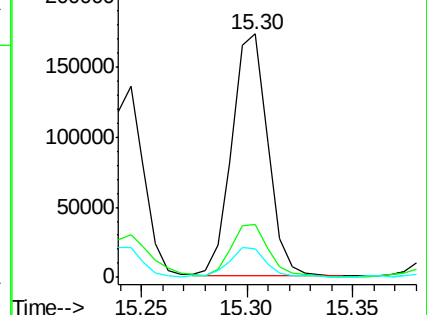
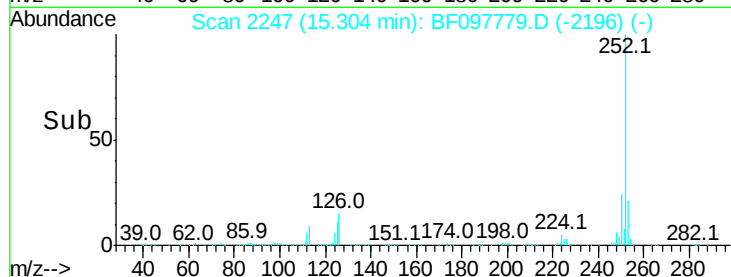
125 11.8 11.0 16.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 2.345 ng

RT: 16.77 min Scan# 2496

Delta R.T. -0.02 min

Lab File: BF097779.D

Acq: 17 Aug 2017 10:33

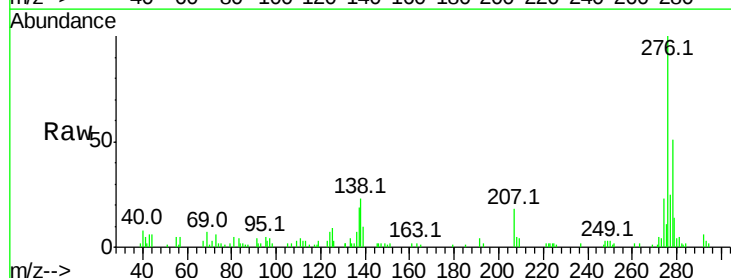
Tgt Ion:278 Resp: 28385

Ion Ratio Lower Upper

278 100

139 19.6 16.6 24.8

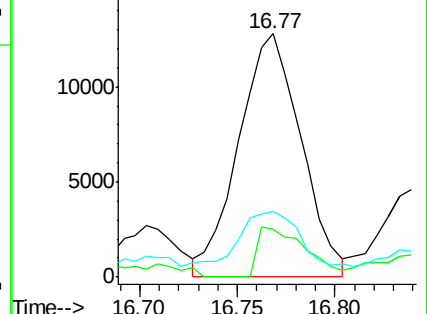
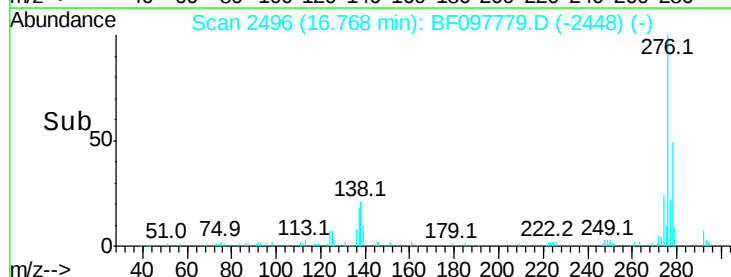
279 27.1 19.3 28.9

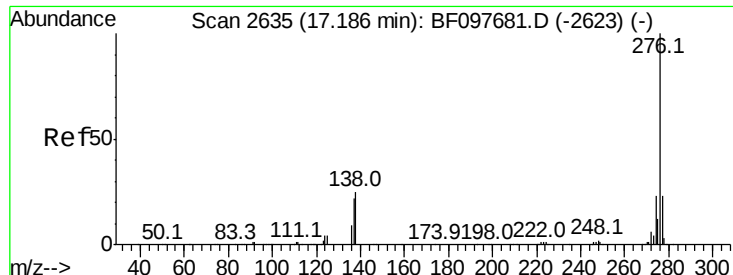


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 6.925 ng

RT: 17.17 min Scan# 2565

Delta R.T. -0.01 min

Lab File: BF097779.D

Acq: 17 Aug 2017 10:33

Instrument :

BNA_F

ClientSampleId :

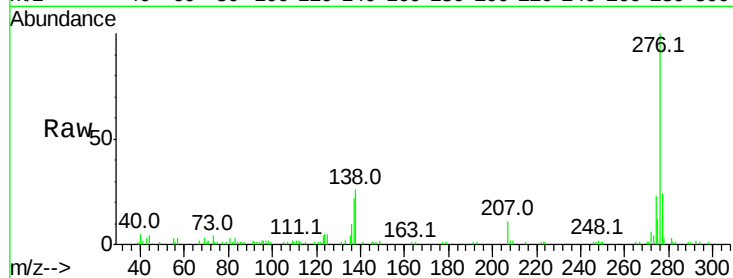
Tot Ion:276 Resp: 87484

Ion Ratio Lower Upper

276 100

277 24.1 18.6 28.0

138 25.8 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

