

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
 Data File : BF097778.D
 Acq On : 17 Aug 2017 10:05
 Operator : SJ/JU
 Sample : I4791-04 10X
 Misc :
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 17 14:56:41 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	160782	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	602758	20.00	ng	0.00
38) Acenaphthene-d10	9.82	164	244457	20.00	ng	0.00
63) Phenanthrene-d10	11.30	188	359462	20.00	ng	0.00
75) Chrysene-d12	13.93	240	295563	20.00	ng	0.00
86) Perylene-d12	15.37	264	255127	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	80037	7.57	ng	-0.01
7) Phenol-d6	6.40	99	159922	11.14	ng	-0.01
23) Nitrobenzene-d5	7.33	82	99966	9.01	ng	-0.02
41) 2,4,6-Tribromophenol	10.60	330	6310	2.97	ng	-0.01
44) 2-Fluorobiphenyl	9.13	172	148192	8.91	ng	-0.01
78) Terphenyl-d14	12.88	244	79273	5.59	ng	-0.01

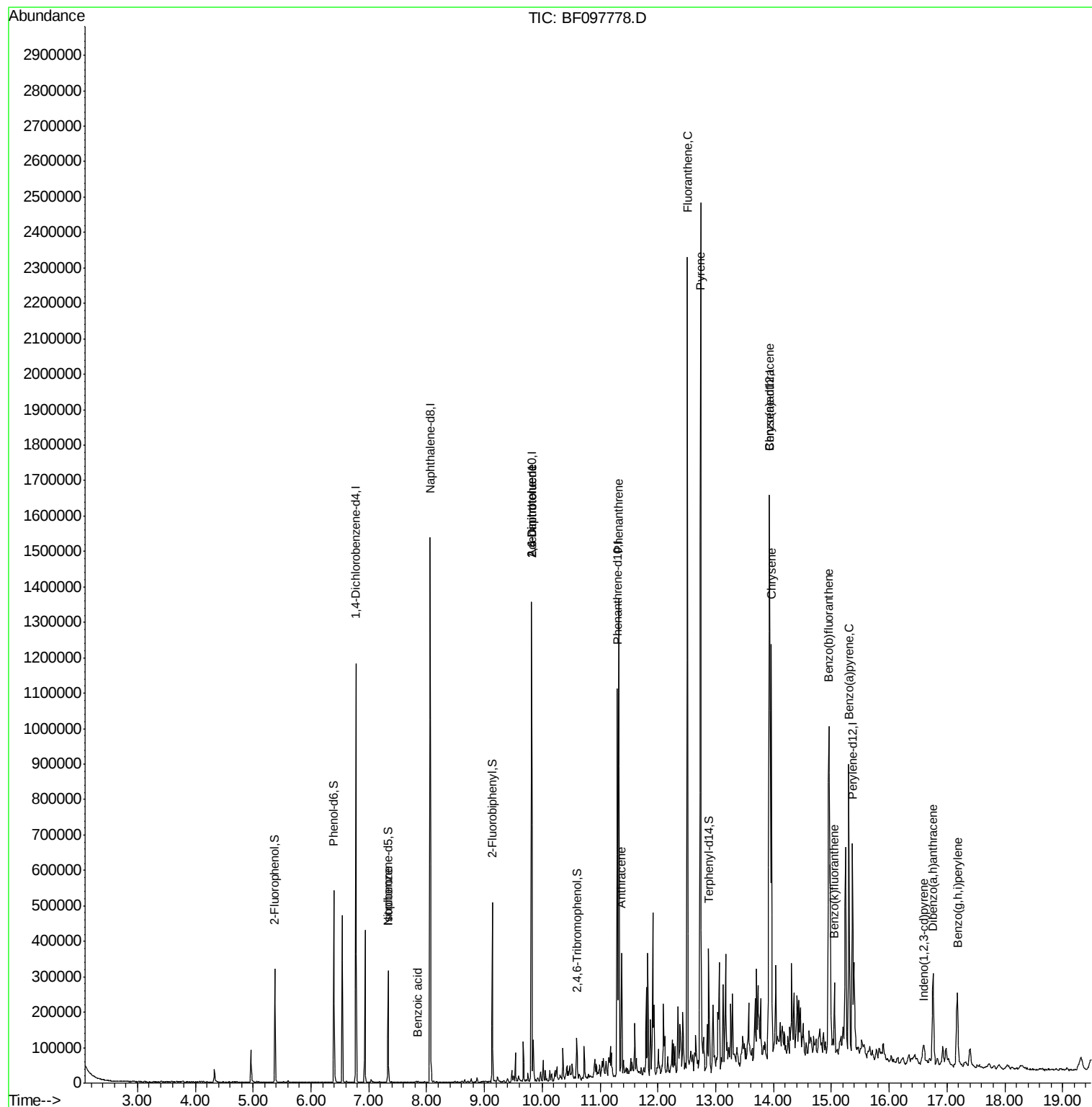
Target Compounds				Qvalue		
25) Isophorone	7.33	82	99792	4.325	ng	# 67
32) Benzoic acid	7.85	122	107	6.418	ng	# 1
50) 2,6-Dinitrotoluene	9.82	165	31304	8.776	ng	# 34
56) 2,4-Dinitrotoluene	9.82	165	31304	6.993	ng	# 33
70) Phenanthrene	11.32	178	434311	22.674	ng	99
71) Anthracene	11.37	178	127417	6.558	ng	98
74) Fluoranthene	12.51	202	918979	45.965	ng	98
77) Pyrene	12.74	202	1061180	43.898	ng	98
80) Benzo(a)anthracene	13.93	228	482001	27.210	ng	99
82) Chrysene	13.96	228	439559	24.944	ng	98
85) Indeno(1,2,3-cd)pyrene	16.61	276	30635	2.363	ng	96
87) Benzo(b)fluoranthene	14.96	252	669028	41.602	ng	99
88) Benzo(k)fluoranthene	15.06	252	76892	5.089	ng	94
89) Benzo(a)pyrene	15.30	252	386563	27.153	ng	98
90) Dibenzo(a,h)anthracene	16.77	278	40642	3.507	ng	96
91) Benzo(g,h,i)perylene	17.18	276	152859	12.640	ng	93

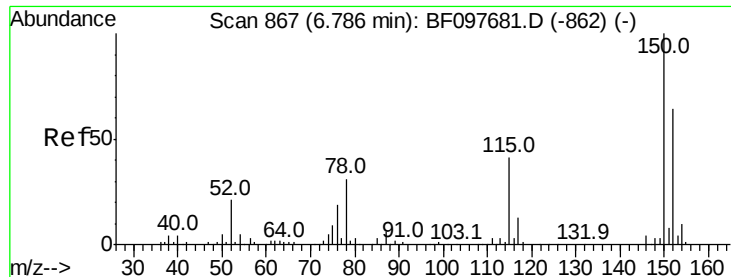
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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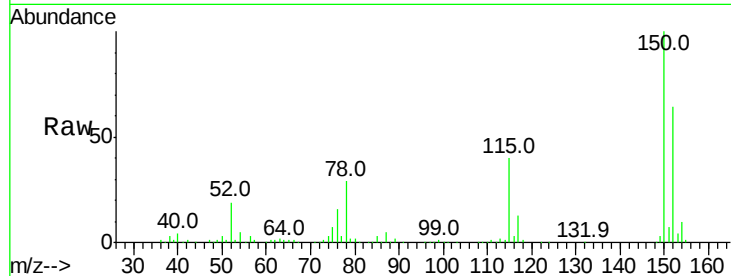


#1

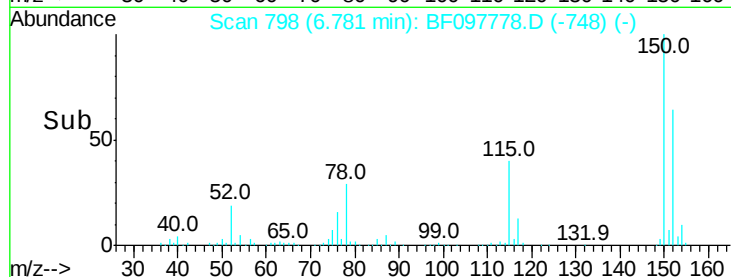
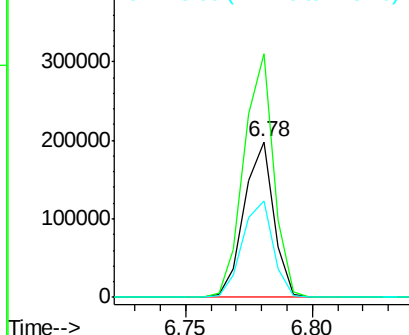
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.78 min Scan# 798
Delta R.T. -0.01 min
Lab File: BF097778.D
Acq: 17 Aug 2017 10:05

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 160782
Ion Ratio Lower Upper
152 100
150 156.3 126.2 189.2
115 61.8 52.2 78.2



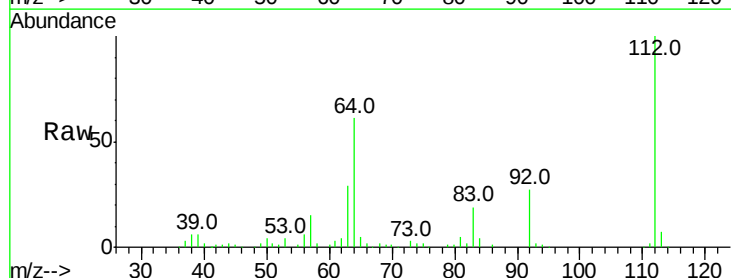
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



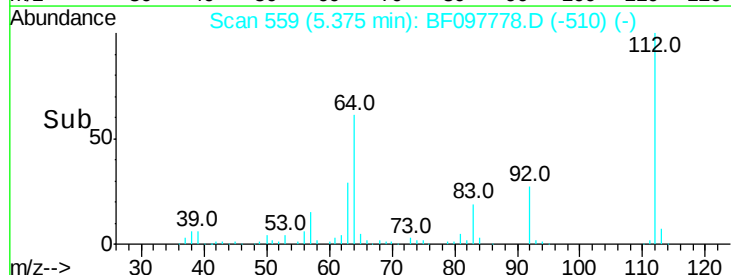
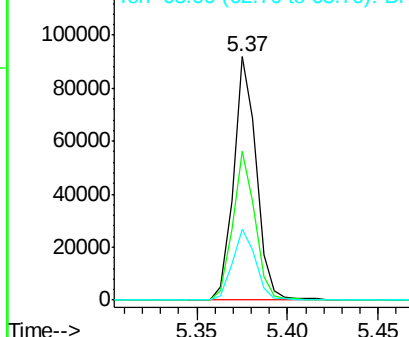
#5

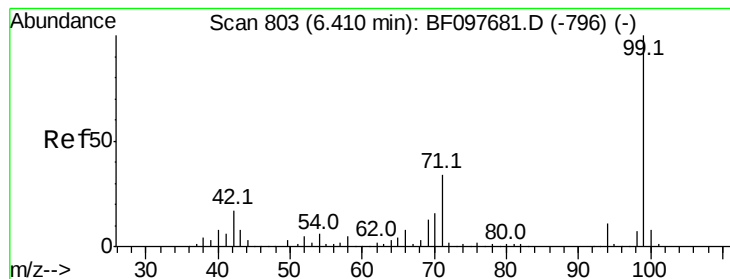
2-Fluorophenol
Concen: 7.572 ng
RT: 5.37 min Scan# 559
Delta R.T. -0.01 min
Lab File: BF097778.D
Acq: 17 Aug 2017 10:05

Tgt Ion:112 Resp: 80037
Ion Ratio Lower Upper
112 100
64 61.2 46.0 69.0
63 29.2 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: 11.135 ng

RT: 6.40 min Scan# 733

Delta R.T. -0.01 min

Lab File: BF097778.D

Acq: 17 Aug 2017 10:05

Instrument :

BNA_F

ClientSampleId :

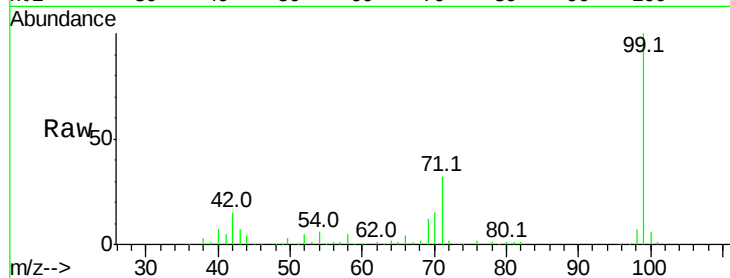
Tot Ion: 99 Resp: 159922

Ion Ratio Lower Upper

99 100

42 15.2 13.5 20.3

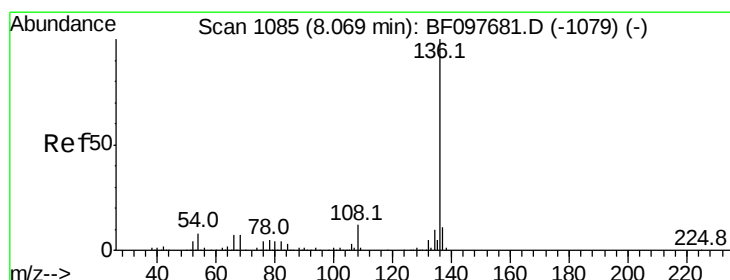
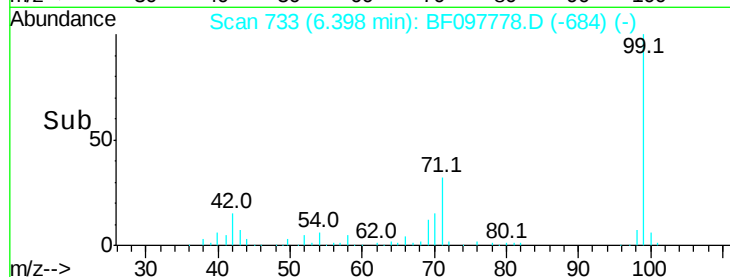
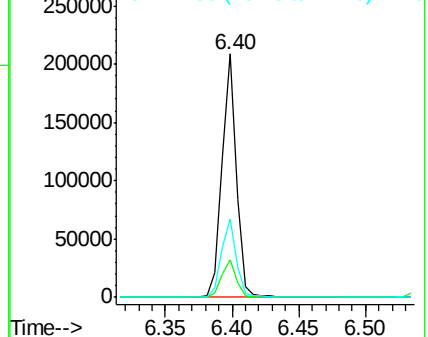
71 32.5 24.5 36.7



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: BF097778.D

Acq: 17 Aug 2017 10:05

Tgt Ion: 136 Resp: 602758

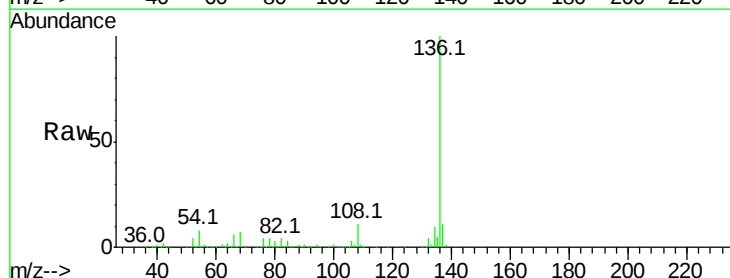
Ion Ratio Lower Upper

136 100

137 11.1 8.5 12.7

54 7.5 4.9 7.3#

68 7.2 4.1 6.1#

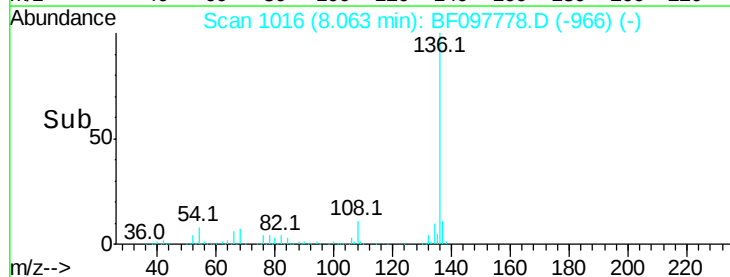
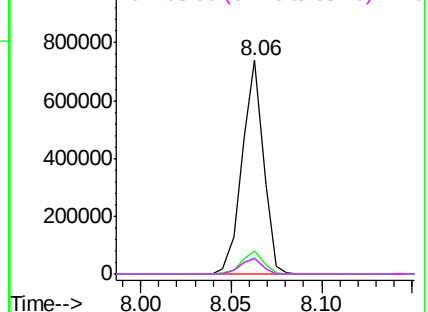


Abundance Ion 136.00 (135.70 to 136.70): E

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

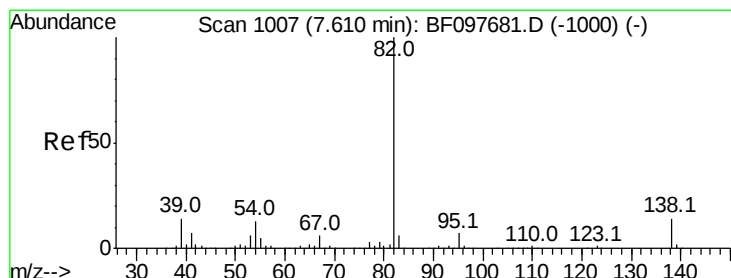
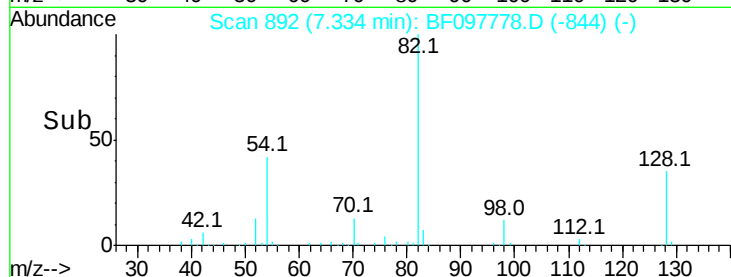
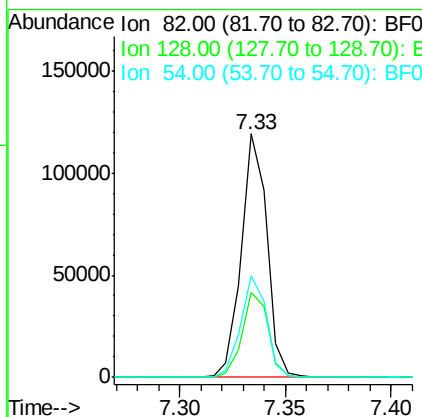
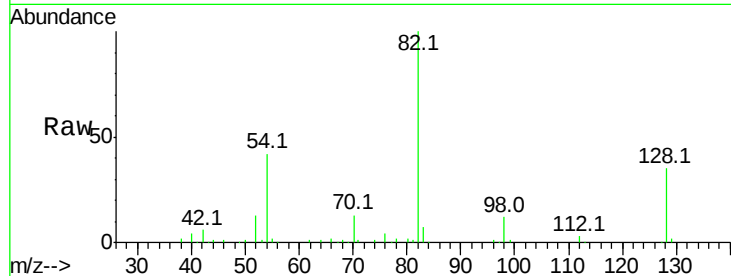




#23
 Nitrobenzene-d5
 Concen: 9.010 ng
 RT: 7.33 min Scan# 892
 Delta R.T. -0.02 min
 Lab File: BF097778.D
 Acq: 17 Aug 2017 10:05

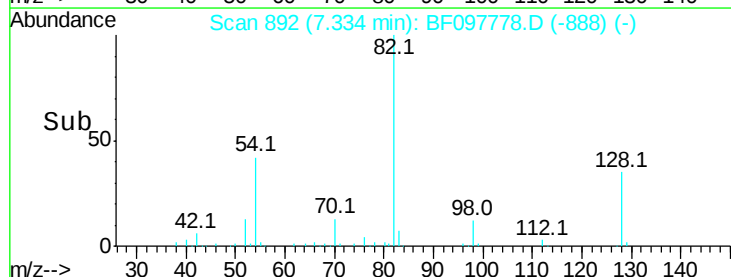
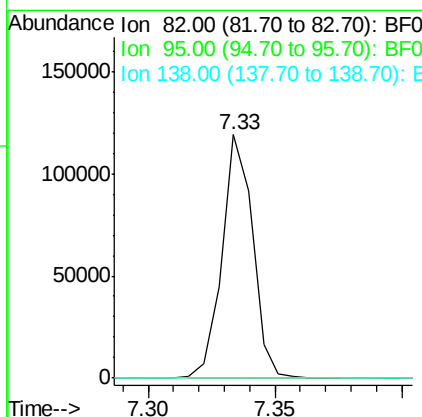
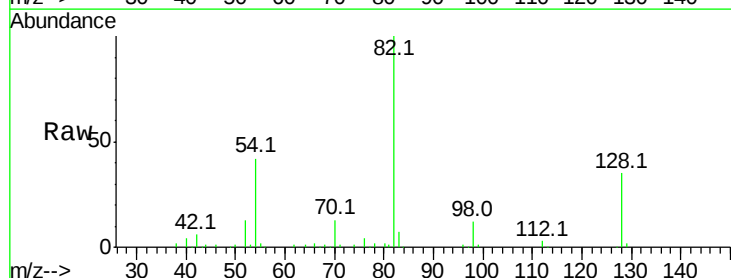
Instrument :
 BNA_F
 ClientSampleId :

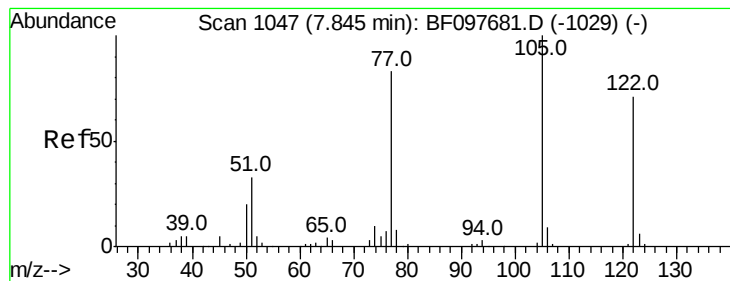
Tot Ion	82	Resp	99966
Ion Ratio	Lower	Upper	
82	100		
128	34.8	34.0	51.0
54	41.9	42.2	63.2#



#25
 Isophorone
 Concen: 4.325 ng
 RT: 7.33 min Scan# 892
 Delta R.T. -0.28 min
 Lab File: BF097778.D
 Acq: 17 Aug 2017 10:05

Tgt Ion	82	Resp	99792
Ion Ratio	Lower	Upper	
82	100		
95	0.0	5.3	7.9#
138	0.0	13.1	19.7#





#32

Benzoic acid

Concen: 6.418 ng

RT: 7.85 min Scan# 979

Delta R.T. 0.00 min

Lab File: BF097778.D

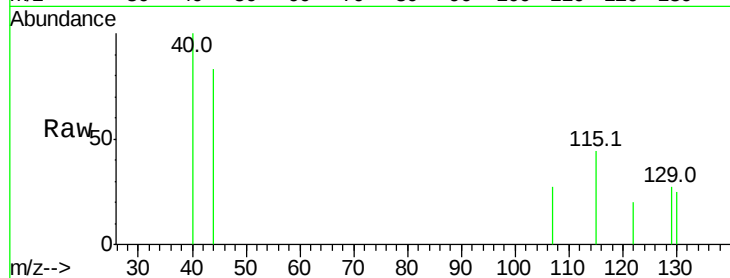
Acq: 17 Aug 2017 10:05

Instrument :

BNA_F

ClientSampleId :

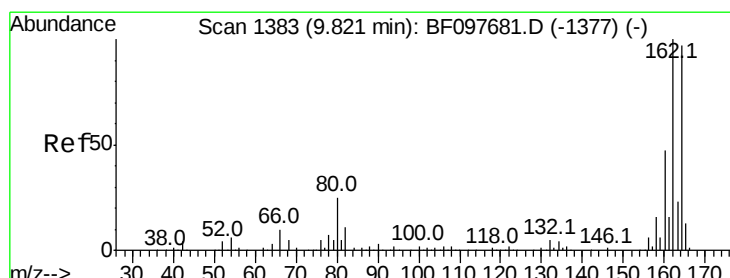
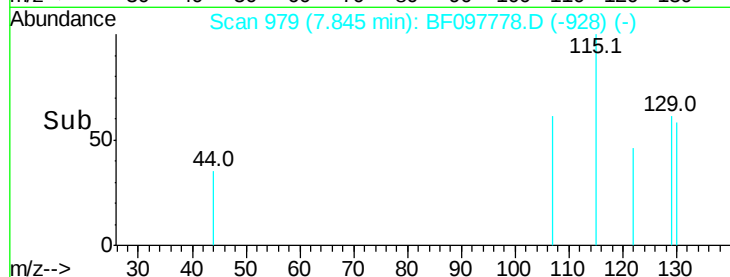
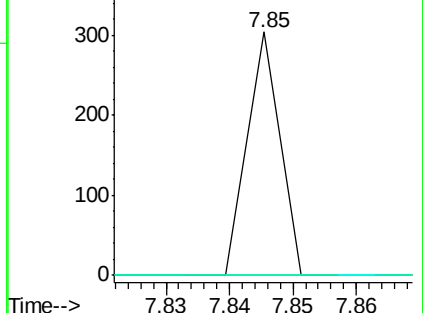
Tot Ion:	122	Resp:	107
Ion	Ratio	Lower	Upper
122	100		
105	0.0	103.3	143.3#
77	0.0	73.7	113.7#



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



#38

Acenaphthene-d10

Concen: 20.000 ng

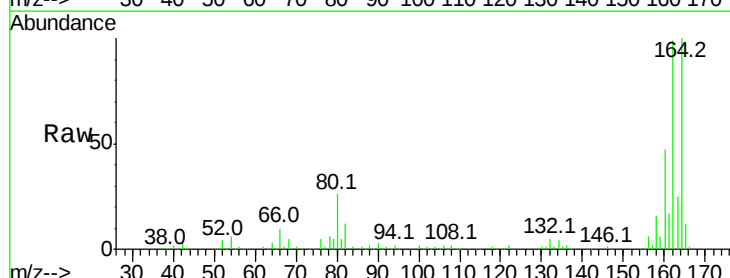
RT: 9.82 min Scan# 1314

Delta R.T. -0.01 min

Lab File: BF097778.D

Acq: 17 Aug 2017 10:05

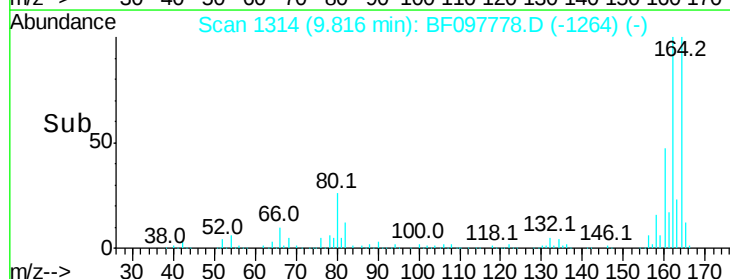
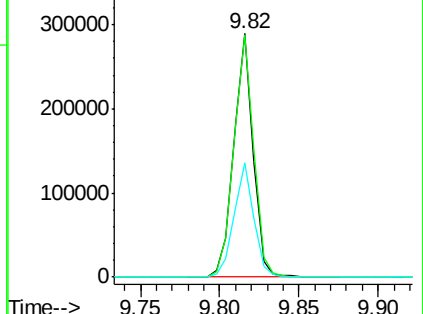
Tgt Ion:	164	Resp:	244457
Ion	Ratio	Lower	Upper
164	100		
162	99.4	82.6	123.8
160	46.9	36.2	54.2



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

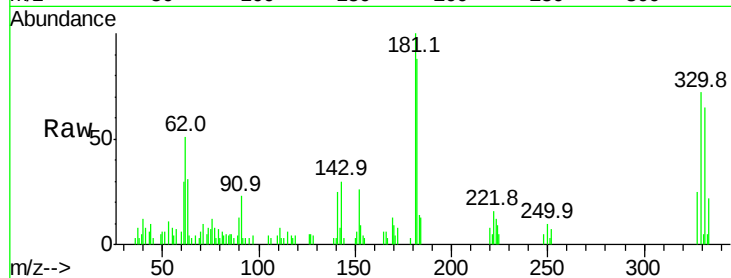




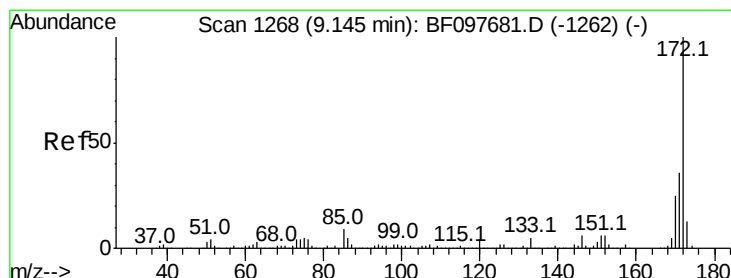
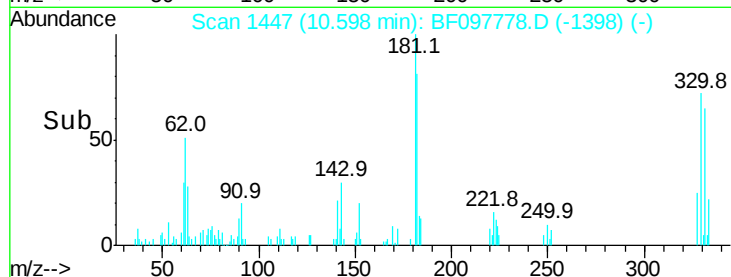
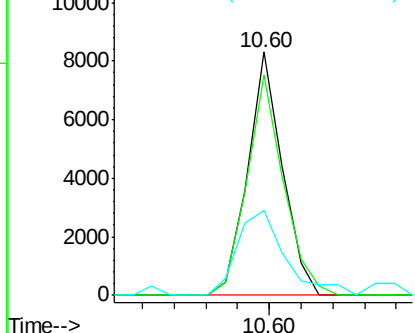
#41
 2,4,6-Tribromophenol
 Concen: 2.975 ng
 RT: 10.60 min Scan# 1447
 Delta R.T. -0.01 min
 Lab File: BF097778.D
 Acq: 17 Aug 2017 10:05

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 6310
 Ion Ratio Lower Upper
 330 100
 332 95.9 76.6 115.0
 141 48.1 31.4 47.2#

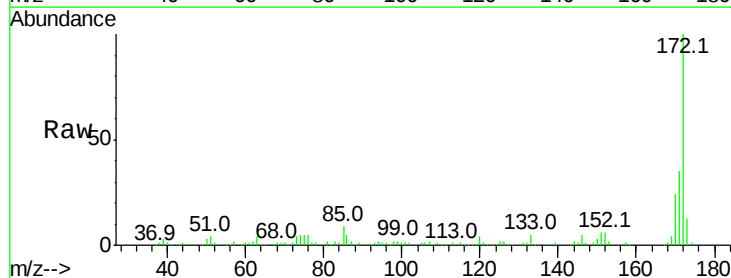


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

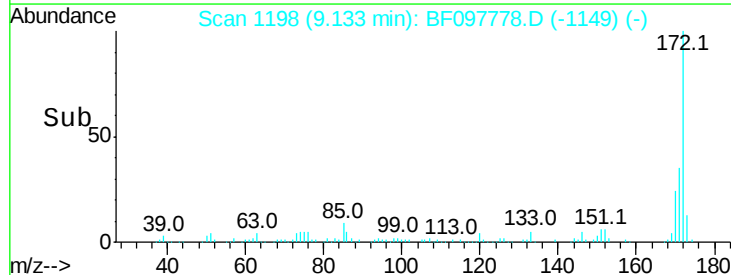
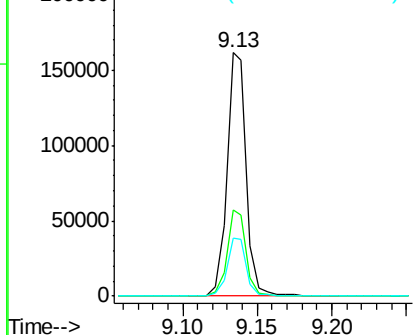


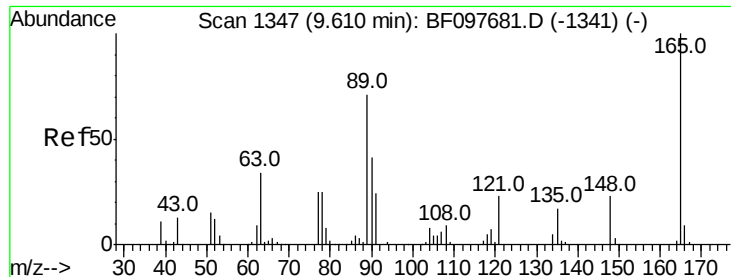
#44
 2-Fluorobiphenyl
 Concen: 8.906 ng
 RT: 9.13 min Scan# 1198
 Delta R.T. -0.01 min
 Lab File: BF097778.D
 Acq: 17 Aug 2017 10:05

Tgt Ion:172 Resp: 148192
 Ion Ratio Lower Upper
 172 100
 171 35.3 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

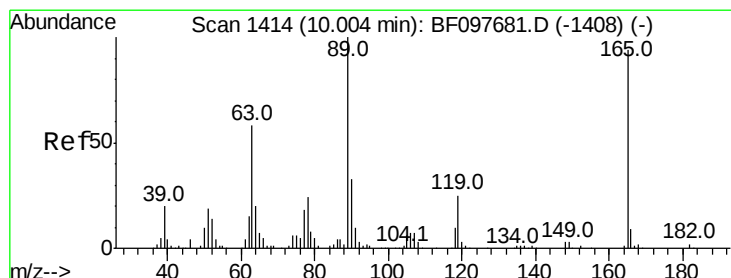
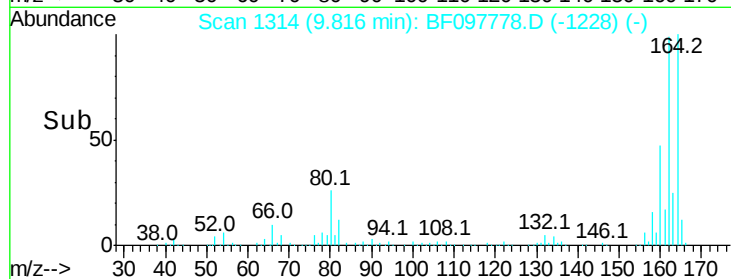
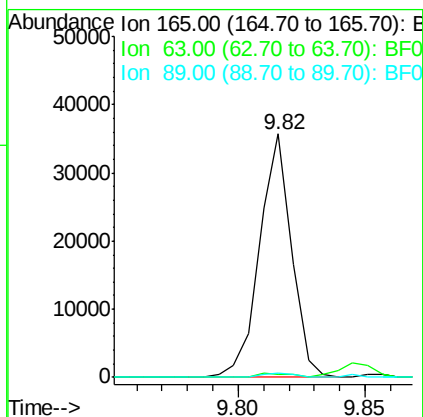
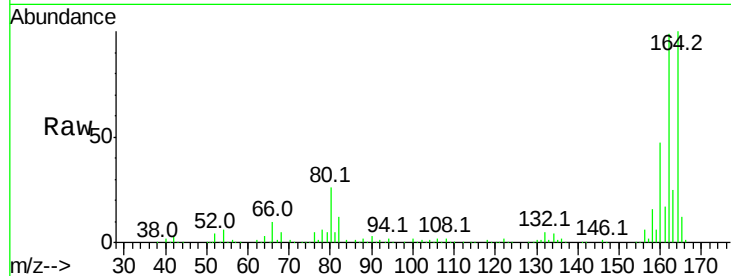




#50
 2,6-Dinitrotoluene
 Concen: 8.776 ng
 RT: 9.82 min Scan# 1314
 Delta R.T. 0.21 min
 Lab File: BF097778.D
 Acq: 17 Aug 2017 10:05

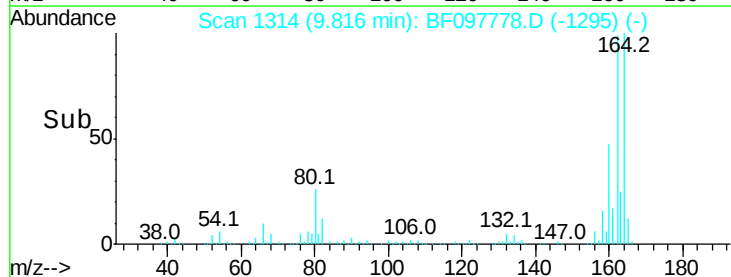
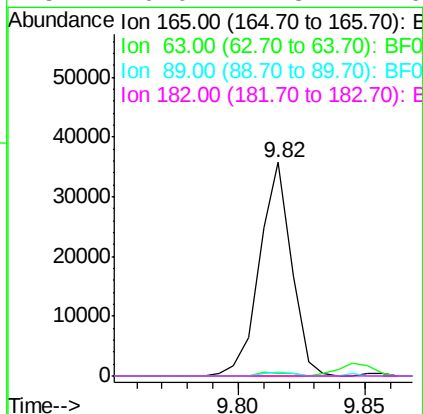
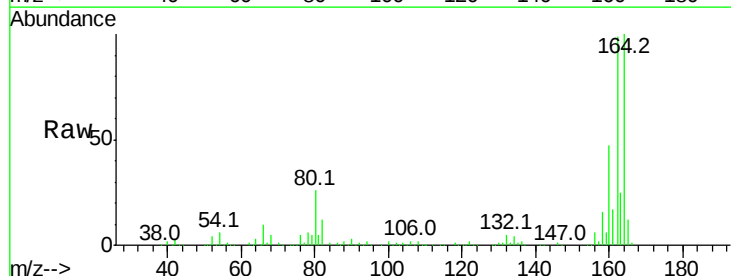
Instrument :
 BNA_F
 ClientSampleId :

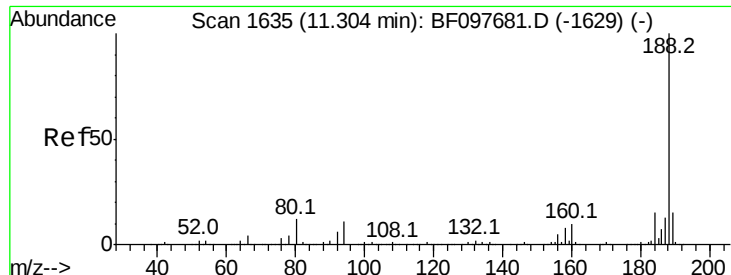
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.5	34.3	51.5#
89	1.9	37.1	55.7#



#56
 2,4-Dinitrotoluene
 Concen: 6.993 ng
 RT: 9.82 min Scan# 1314
 Delta R.T. -0.19 min
 Lab File: BF097778.D
 Acq: 17 Aug 2017 10:05

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.5	25.4	38.0#
89	1.9	46.4	69.6#
182	0.0	1.8	2.6#

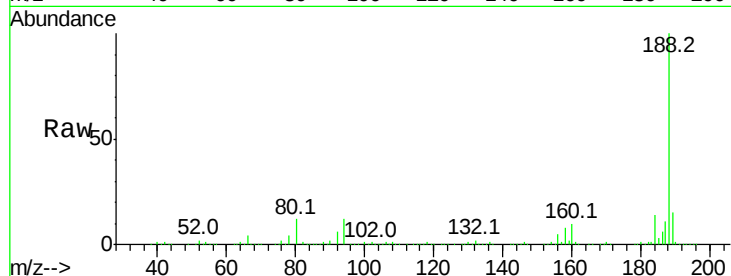




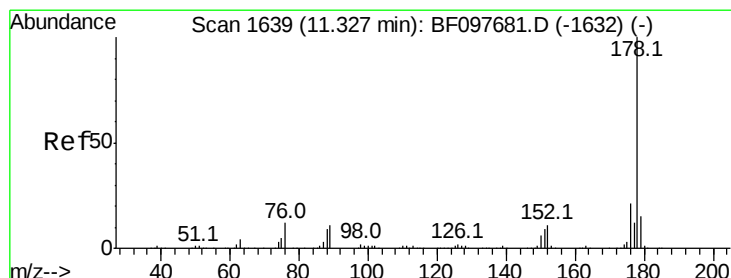
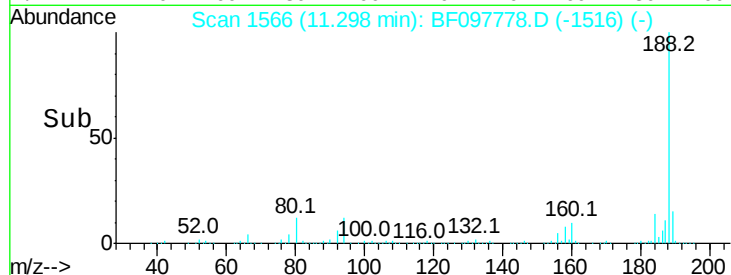
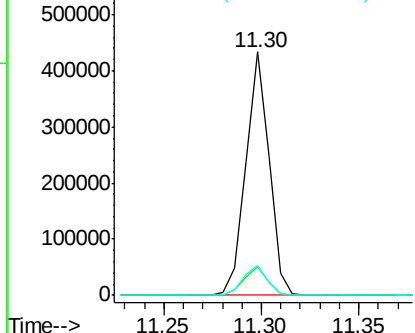
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.30 min Scan# 1566
Delta R.T. -0.01 min
Lab File: BF097778.D
Acq: 17 Aug 2017 10:05

Instrument :
BNA_F
ClientSampled :

Tot Ion:188 Resp: 359462
Ion Ratio Lower Upper
188 100
94 11.8 9.4 14.2
80 12.5 10.2 15.2

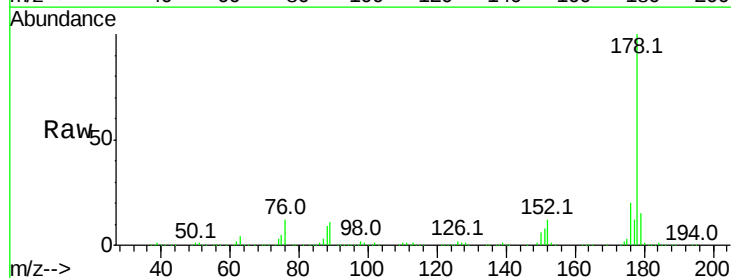


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

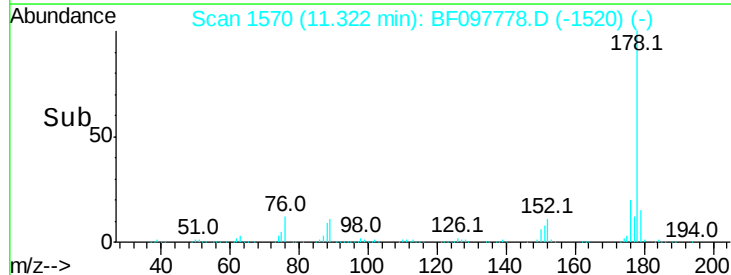
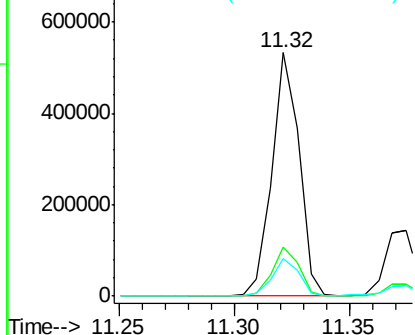


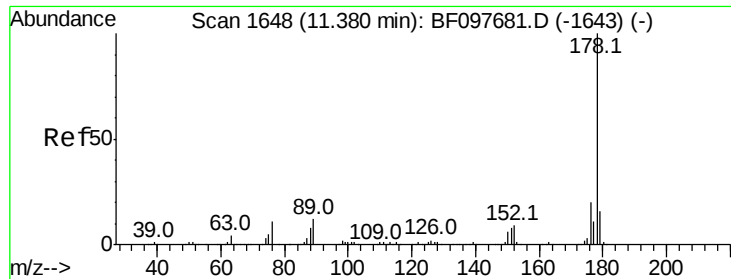
#70
Phenanthrene
Concen: 22.674 ng
RT: 11.32 min Scan# 1570
Delta R.T. -0.01 min
Lab File: BF097778.D
Acq: 17 Aug 2017 10:05

Tgt Ion:178 Resp: 434311
Ion Ratio Lower Upper
178 100
176 20.2 16.2 24.4
179 15.4 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

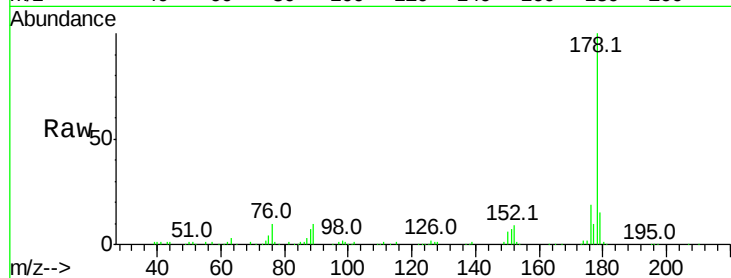




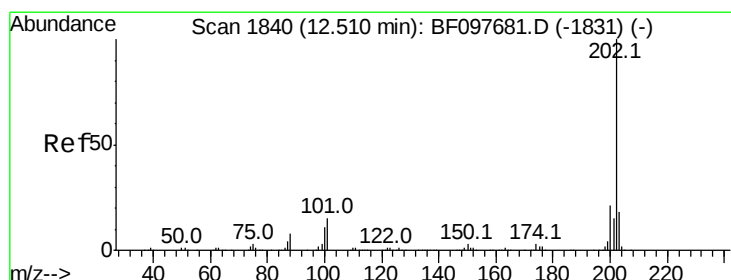
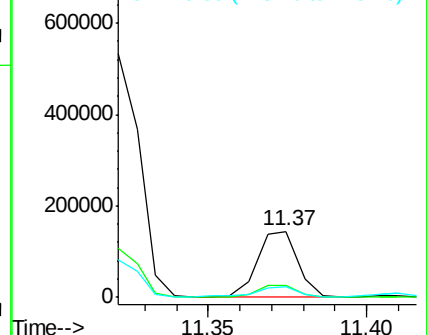
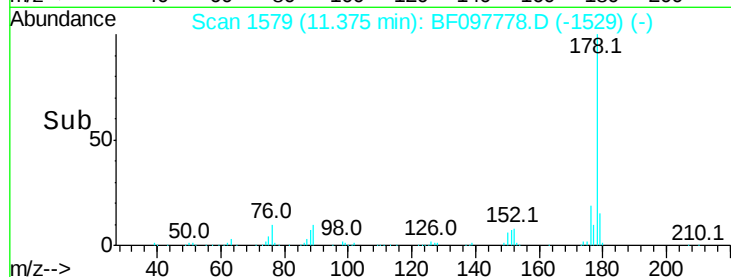
#71
 Anthracene
 Concen: 6.558 ng
 RT: 11.37 min Scan# 1579
 Delta R.T. -0.01 min
 Lab File: BF097778.D
 Acq: 17 Aug 2017 10:05

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 127417
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.8 23.8
 179 15.3 12.7 19.1

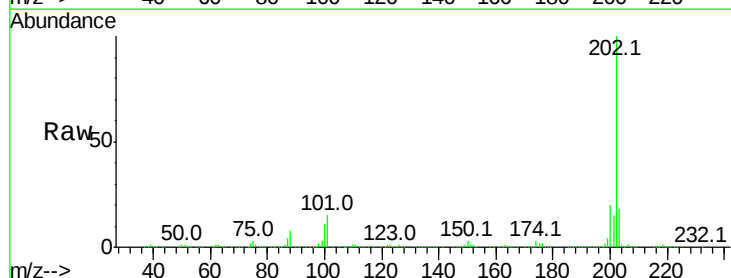


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

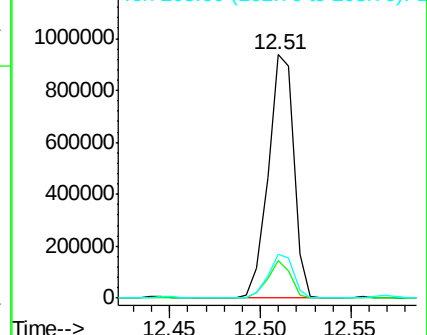
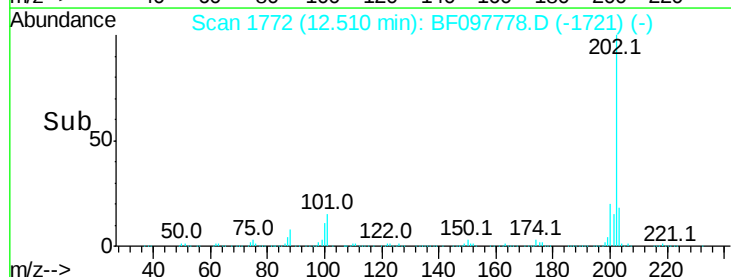


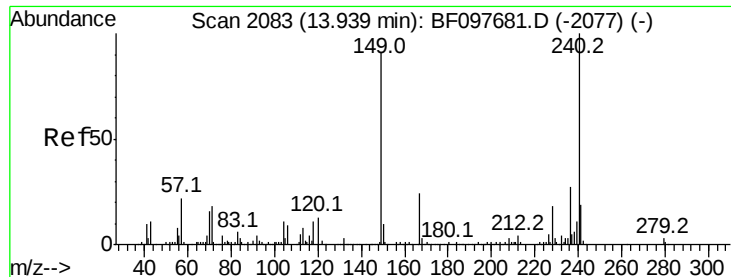
#74
 Fluoranthene
 Concen: 45.965 ng
 RT: 12.51 min Scan# 1772
 Delta R.T. 0.00 min
 Lab File: BF097778.D
 Acq: 17 Aug 2017 10:05

Tgt Ion:202 Resp: 918979
 Ion Ratio Lower Upper
 202 100
 101 15.3 0.0 33.2
 203 18.2 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: BF097778.D

Acq: 17 Aug 2017 10:05

Instrument :

BNA_F

ClientSampleId :

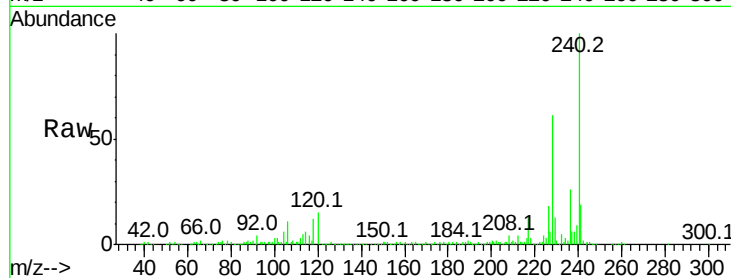
Tot Ion:240 Resp: 295563

Ion Ratio Lower Upper

240 100

120 15.1 5.8 8.8#

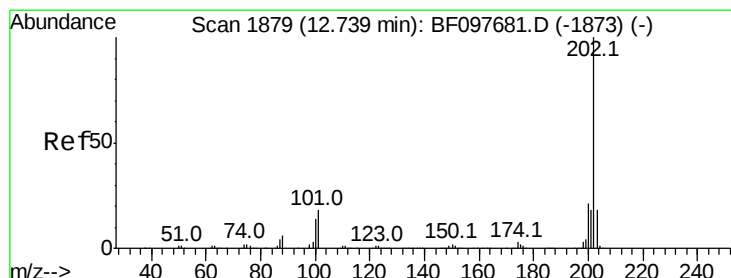
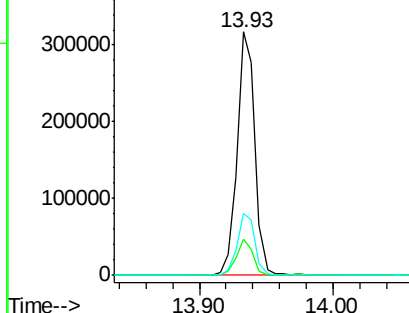
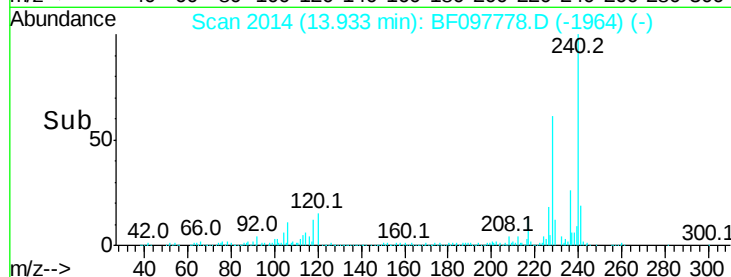
236 25.5 20.5 30.7



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: 43.898 ng

RT: 12.74 min Scan# 1811

Delta R.T. 0.00 min

Lab File: BF097778.D

Acq: 17 Aug 2017 10:05

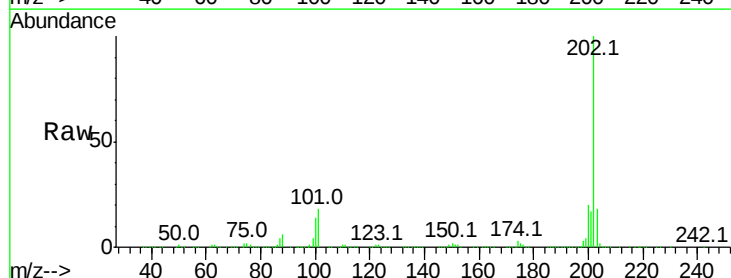
Tgt Ion:202 Resp: 1061180

Ion Ratio Lower Upper

202 100

200 20.4 17.6 26.4

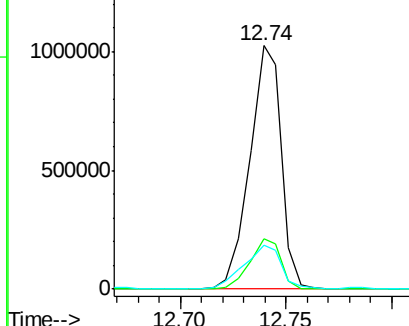
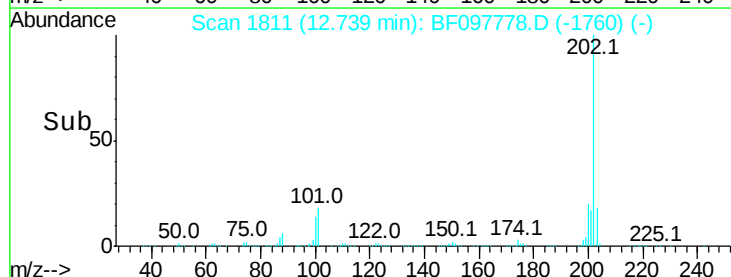
203 18.1 14.4 21.6

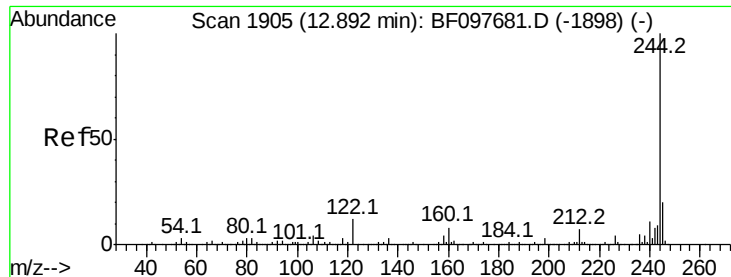


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 5.593 ng

RT: 12.88 min Scan# 1835

Delta R.T. -0.01 min

Lab File: BF097778.D

Acq: 17 Aug 2017 10:05

Instrument :

BNA_F

ClientSampleId :

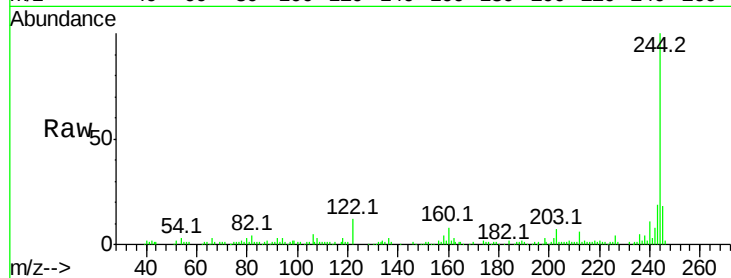
Tot Ion:244 Resp: 79273

Ion Ratio Lower Upper

244 100

212 6.3 6.0 9.0

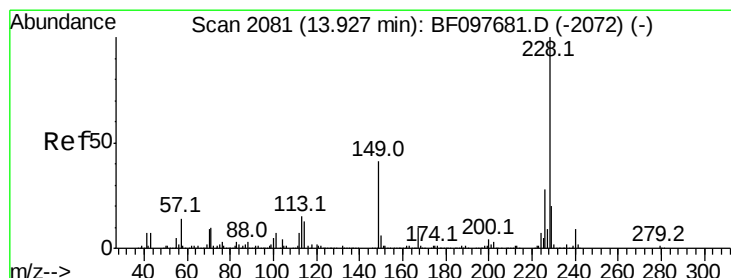
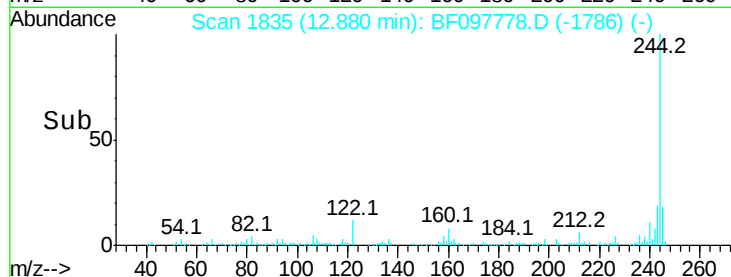
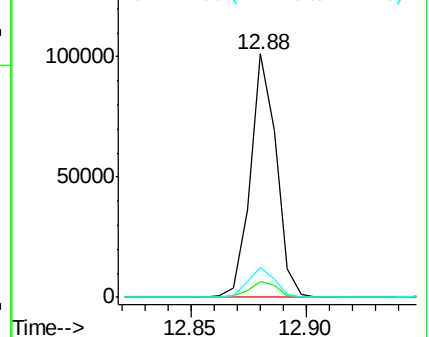
122 12.2 10.3 15.5



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: 27.210 ng

RT: 13.93 min Scan# 2013

Delta R.T. 0.00 min

Lab File: BF097778.D

Acq: 17 Aug 2017 10:05

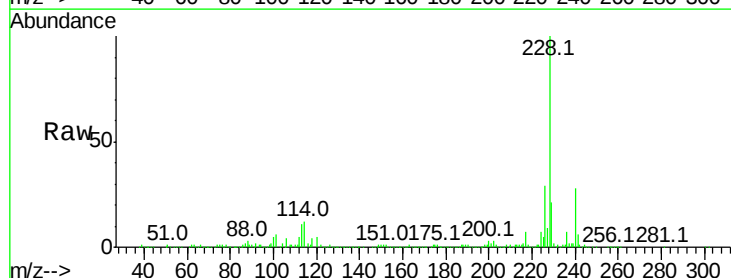
Tgt Ion:228 Resp: 482001

Ion Ratio Lower Upper

228 100

226 29.2 22.6 33.8

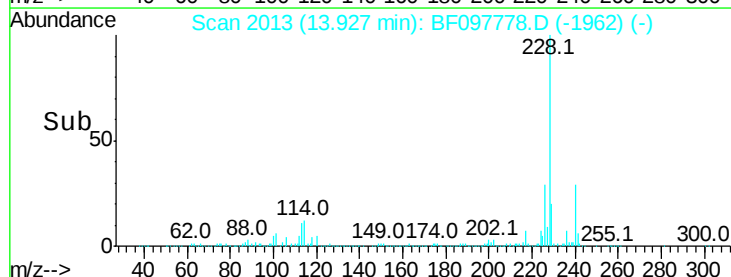
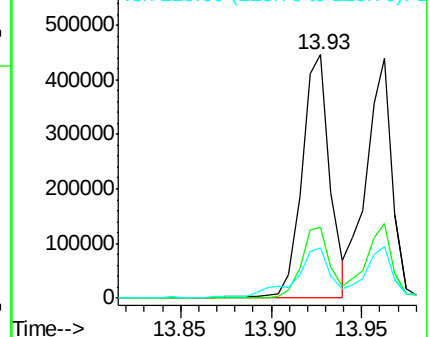
229 20.5 16.3 24.5

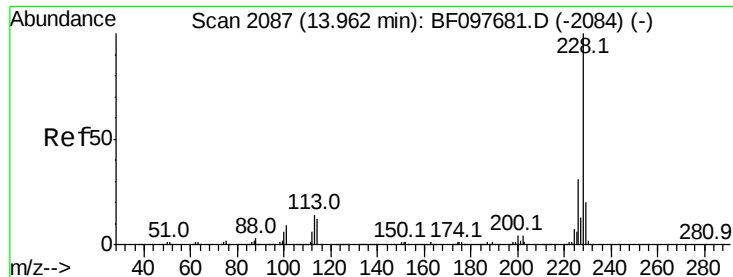


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 24.944 ng

RT: 13.96 min Scan# 2019

Delta R.T. 0.00 min

Lab File: BF097778.D

Acq: 17 Aug 2017 10:05

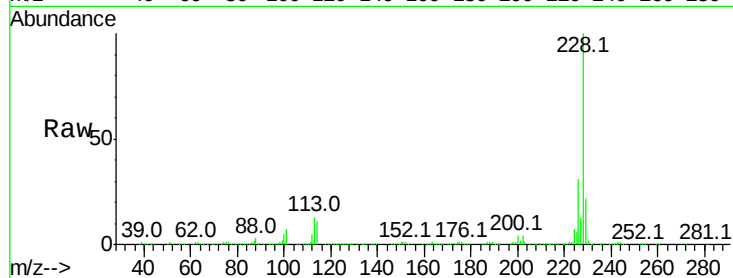
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 439559

Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.9	37.3
229	21.5	15.8	23.6

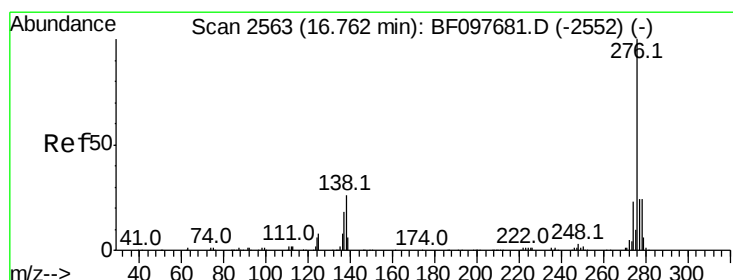
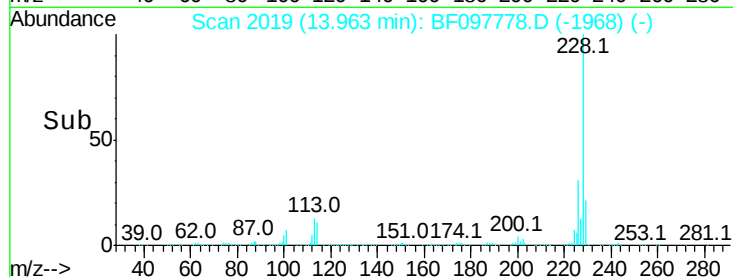
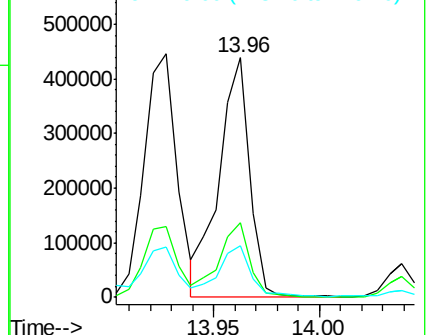


Abundance

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: 2.363 ng

RT: 16.61 min Scan# 2469

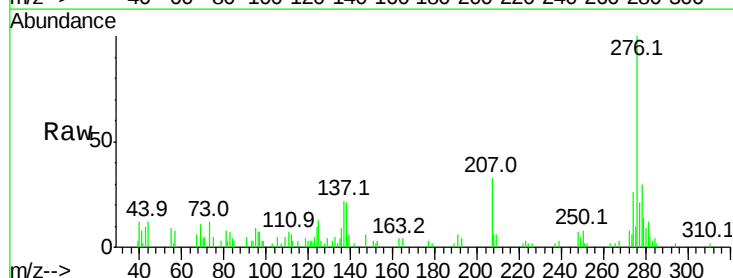
Delta R.T. -0.15 min

Lab File: BF097778.D

Acq: 17 Aug 2017 10:05

Tgt Ion:276 Resp: 30635

Ion	Ratio	Lower	Upper
276	100		
138	34.1	27.8	41.6
277	29.0	20.2	30.4

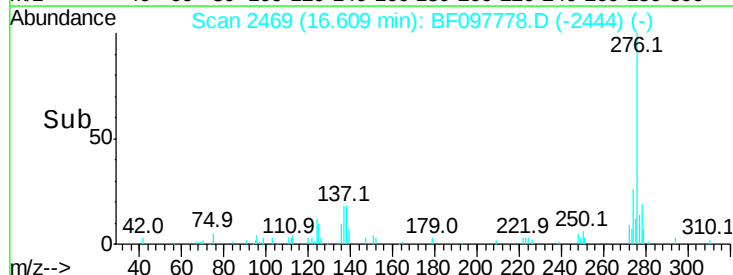
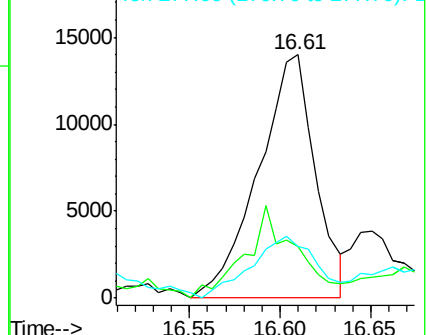


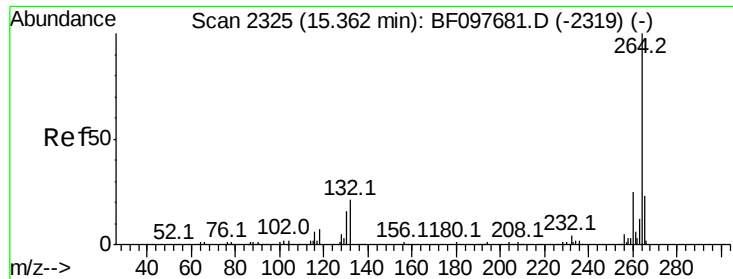
Abundance

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

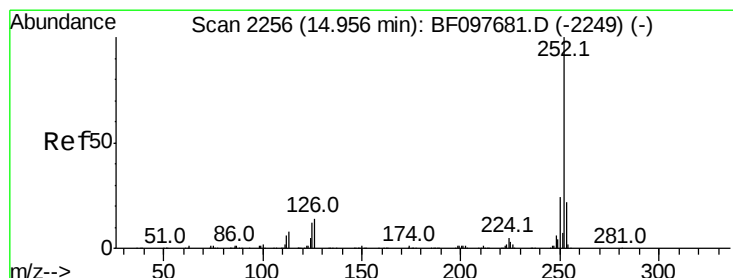
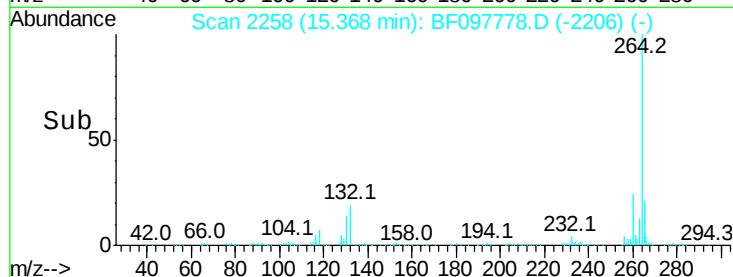
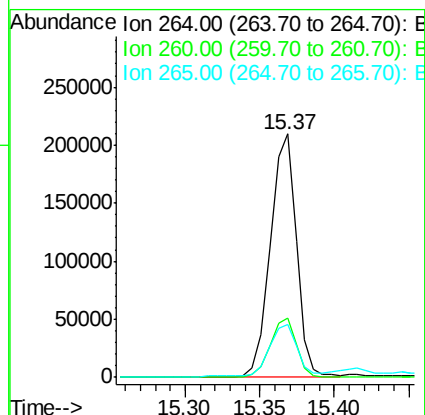
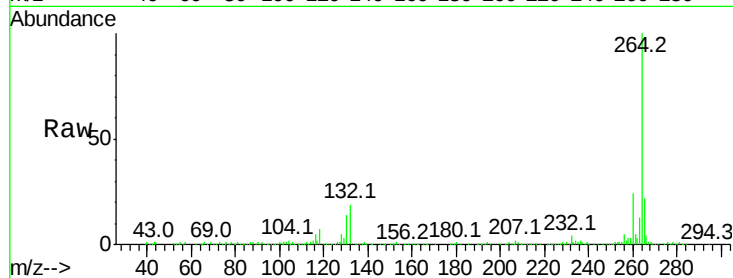




#86
 Pervlene-d12
 Concen: 20.000 ng
 RT: 15.37 min Scan# 2258
 Delta R.T. 0.01 min
 Lab File: BF097778.D
 Acq: 17 Aug 2017 10:05

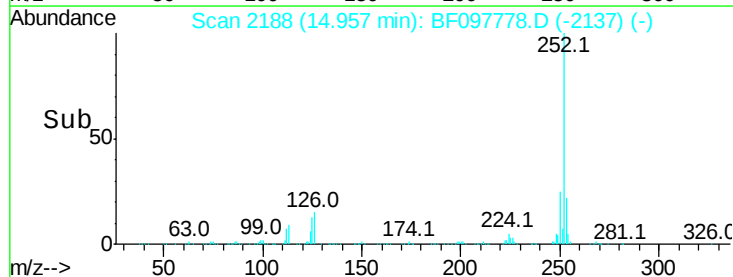
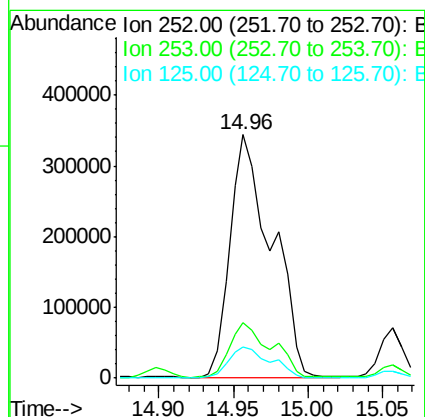
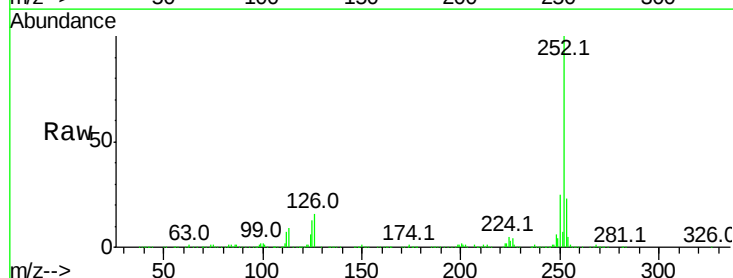
Instrument :
 BNA_F
 ClientSampleId :

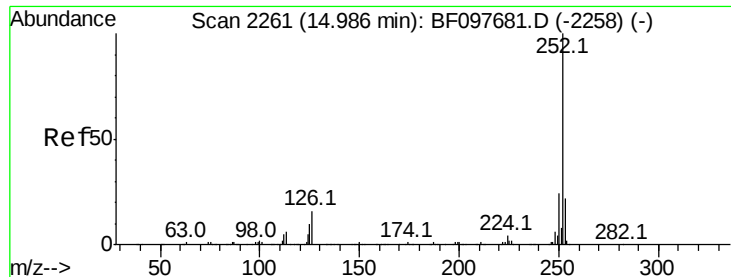
Tot Ion:	264	Resp:	255127
Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.5	29.3
265	21.7	17.2	25.8



#87
 Benzo(b)fluoranthene
 Concen: 41.602 ng
 RT: 14.96 min Scan# 2188
 Delta R.T. 0.00 min
 Lab File: BF097778.D
 Acq: 17 Aug 2017 10:05

Tgt Ion:	252	Resp:	669028
Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.1	27.1
125	13.0	9.8	14.8

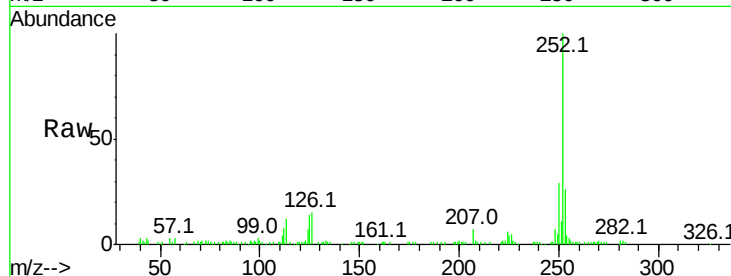




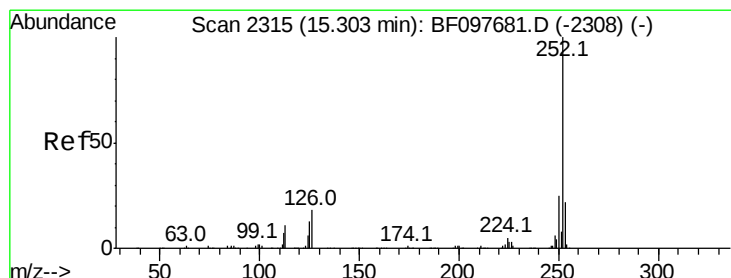
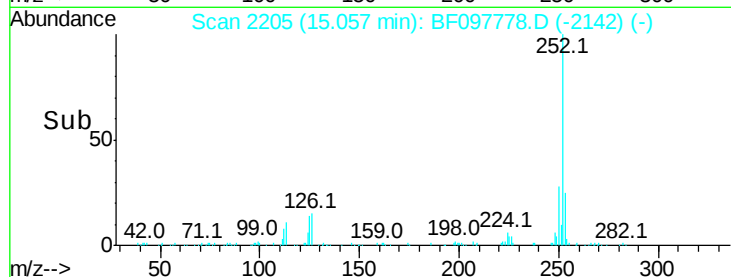
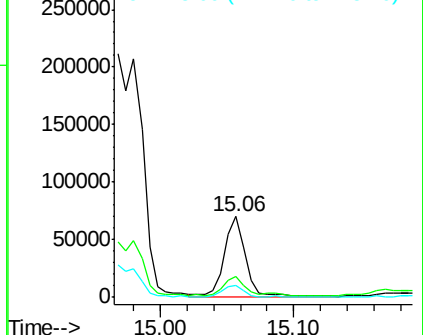
#88
Benzo(k)fluoranthene
Concen: 5.089 ng
RT: 15.06 min Scan# 2205
Delta R.T. 0.07 min
Lab File: BF097778.D
Acq: 17 Aug 2017 10:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 76892
Ion Ratio Lower Upper
252 100
253 26.4 18.4 27.6
125 14.4 13.1 19.7

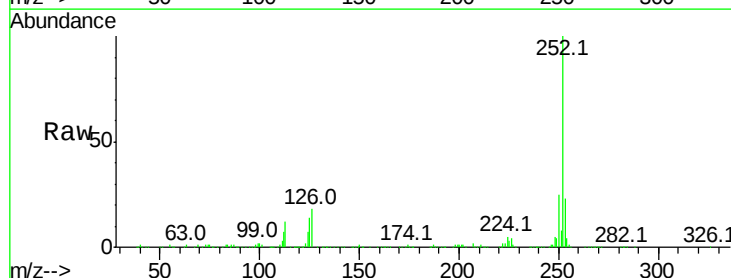


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

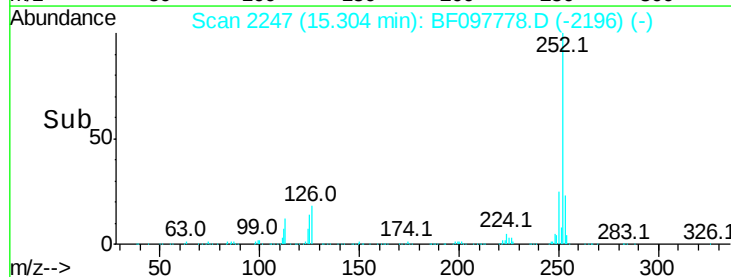
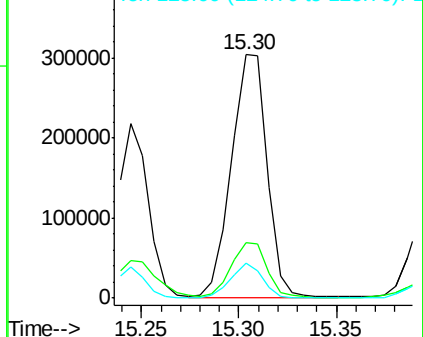


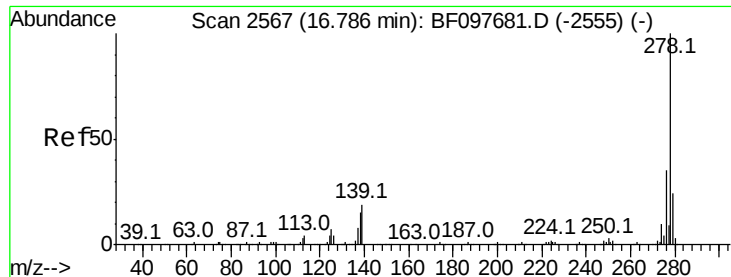
#89
Benzo(a)pyrene
Concen: 27.153 ng
RT: 15.30 min Scan# 2247
Delta R.T. 0.00 min
Lab File: BF097778.D
Acq: 17 Aug 2017 10:05

Tgt Ion:252 Resp: 386563
Ion Ratio Lower Upper
252 100
253 23.0 17.5 26.3
125 14.3 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: 3.507 ng

RT: 16.77 min Scan# 2496

Delta R.T. -0.02 min

Lab File: BF097778.D

Acq: 17 Aug 2017 10:05

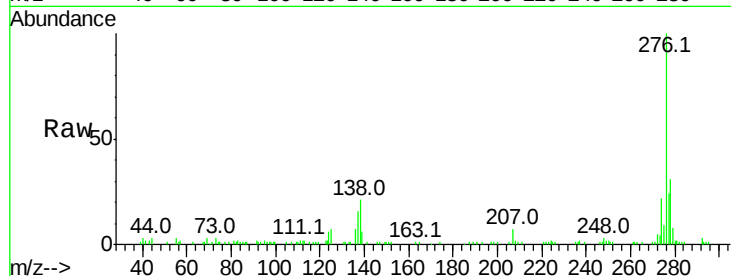
Instrument :

BNA_F

ClientSampleId :

Tot Ion:278 Resp: 40642

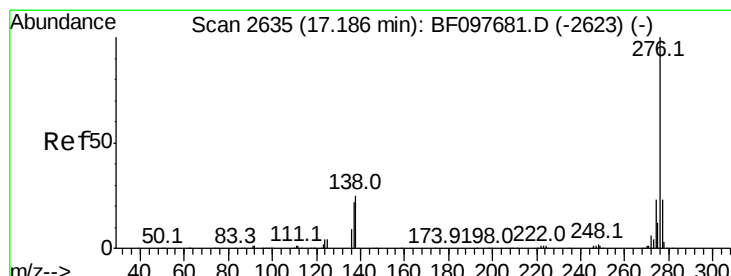
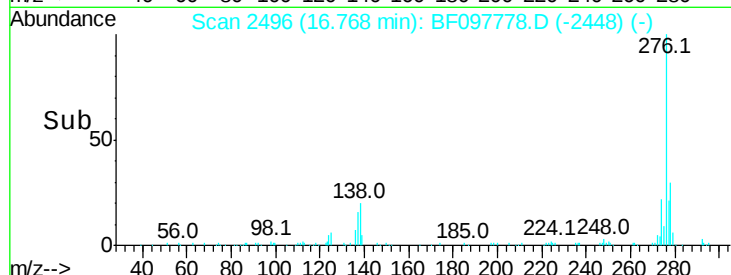
Ion	Ratio	Lower	Upper
278	100		
139	19.1	16.6	24.8
279	26.1	19.3	28.9



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(g,h,i)perylene

Concen: 12.640 ng

RT: 17.18 min Scan# 2566

Delta R.T. -0.01 min

Lab File: BF097778.D

Acq: 17 Aug 2017 10:05

Tgt Ion:276 Resp: 152859

Ion	Ratio	Lower	Upper
276	100		
277	22.1	18.6	28.0
138	25.9	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

