

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082917\
 Data File : BF098120.D
 Acq On : 29 Aug 2017 19:36
 Operator : SJ/JU
 Sample : I4989-07
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

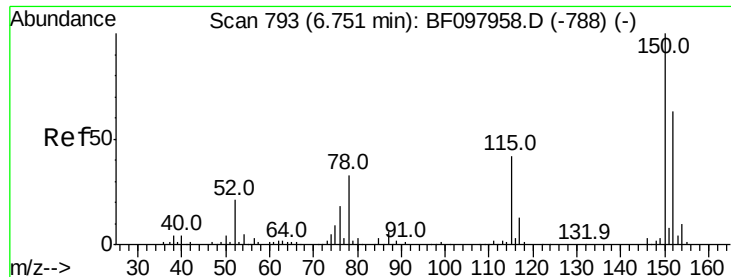
Quant Time: Aug 30 03:00:43 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 21 15:59:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	134415	20.00	ng	-0.02
21) Naphthalene-d8	8.02	136	541582	20.00	ng	-0.02
38) Acenaphthene-d10	9.77	164	236718	20.00	ng	-0.02
63) Phenanthrene-d10	11.25	188	398291	20.00	ng	-0.01
75) Chrysene-d12	13.89	240	283262	20.00	ng	-0.01
86) Perylene-d12	15.30	264	253412	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	942349	106.64	ng	0.00
7) Phenol-d6	6.37	99	1278032	106.44	ng	-0.01
23) Nitrobenzene-d5	7.30	82	794370	79.68	ng	-0.02
41) 2,4,6-Tribromophenol	10.56	330	215083	104.72	ng	-0.02
44) 2-Fluorobiphenyl	9.09	172	1081904	67.15	ng	-0.02
78) Terphenyl-d14	12.84	244	771669	56.81	ng	-0.01

Target Compounds				Qvalue		
10) Phenol	6.38	94	47445	3.379	ng	87
19) n-Nitroso-di-n-propylamine	7.30	70	107323	13.057	ng	# 71
25) Isophorone	7.30	82	783763	37.808	ng	# 67
49) Dimethylphthalate	9.49	163	194386	11.234	ng	99
56) 2,4-Dinitrotoluene	9.77	165	30733	7.090	ng	# 33
64) 4,6-Dinitro-2-methylphenol	10.56	198	481	8.533	ng	# 1
66) 4-Bromophenyl-phenylether	10.56	248	14066	3.401	ng	# 1
70) Phenanthrene	11.27	178	60888	2.869	ng	99
74) Fluoranthene	12.46	202	152946	6.904	ng	100
77) Pyrene	12.69	202	150609	6.501	ng	97
80) Benzo(a)anthracene	13.87	228	80837	4.762	ng	94
82) Chrysene	13.91	228	81083	4.801	ng	98
85) Indeno(1,2,3-cd)pyrene	16.67	276	32680	2.630	ng	91
87) Benzo(b)fluoranthene	14.90	252	132130	8.272	ng	99
88) Benzo(k)fluoranthene	15.18	252	45309	3.019	ng	98
89) Benzo(a)pyrene	15.24	252	67801	4.795	ng	99
91) Benzo(a,h,i)perylene	17.08	276	32451	2.702	ng	95

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

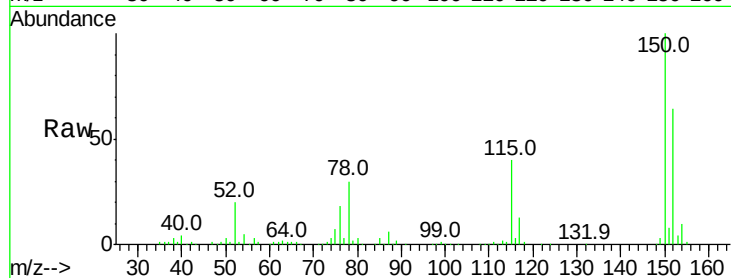


#1

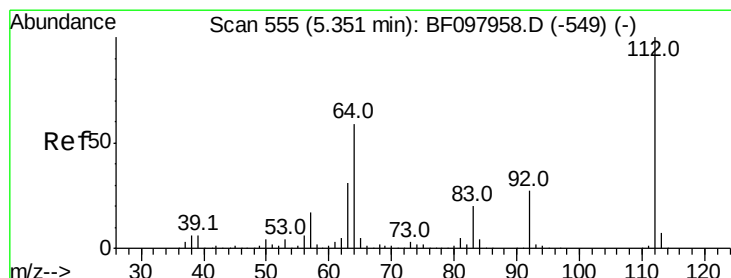
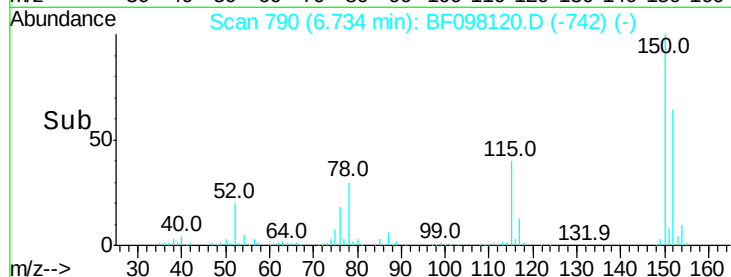
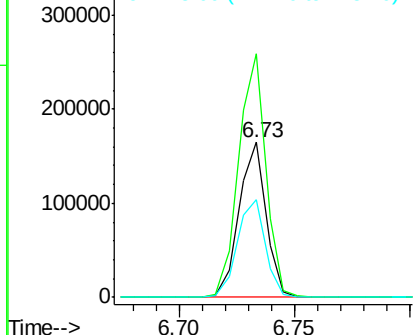
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.73 min Scan# 790
 Delta R.T. -0.02 min
 Lab File: BF098120.D
 Acq: 29 Aug 2017 19:36

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 134415
 Ion Ratio Lower Upper
 152 100
 150 157.2 126.2 189.2
 115 62.8 52.2 78.2



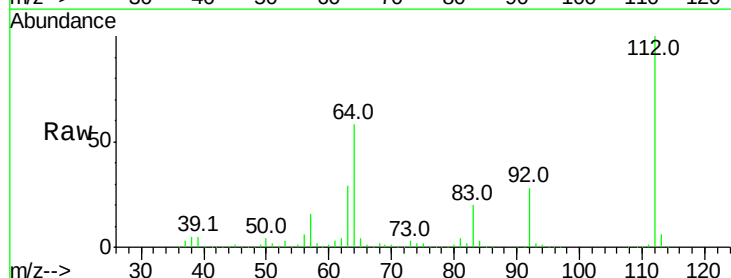
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



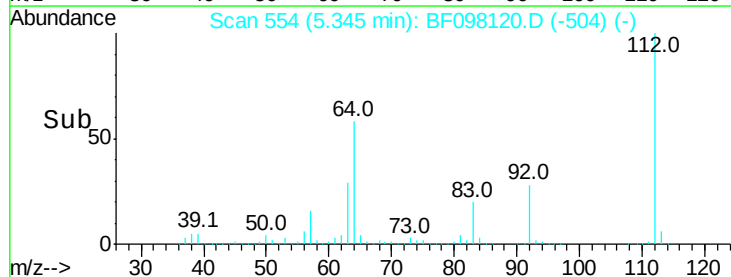
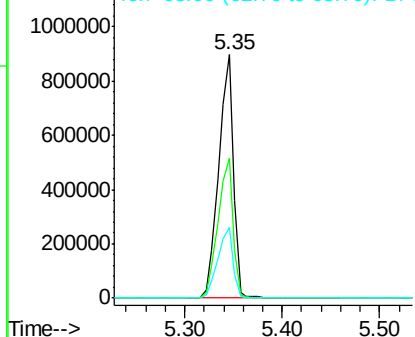
#5

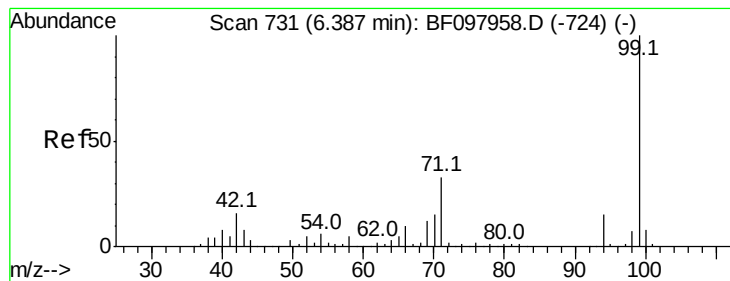
2-Fluorophenol
 Concen: 106.639 ng
 RT: 5.35 min Scan# 554
 Delta R.T. -0.01 min
 Lab File: BF098120.D
 Acq: 29 Aug 2017 19:36

Tgt Ion:112 Resp: 942349
 Ion Ratio Lower Upper
 112 100
 64 57.7 46.0 69.0
 63 29.3 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: 106.443 ng

RT: 6.37 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF098120.D

Acq: 29 Aug 2017 19:36

Instrument :

BNA_F

ClientSampleId :

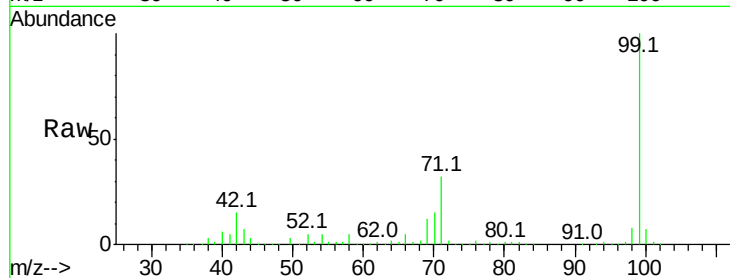
Tot Ion: 99 Resp: 1278032

Ion Ratio Lower Upper

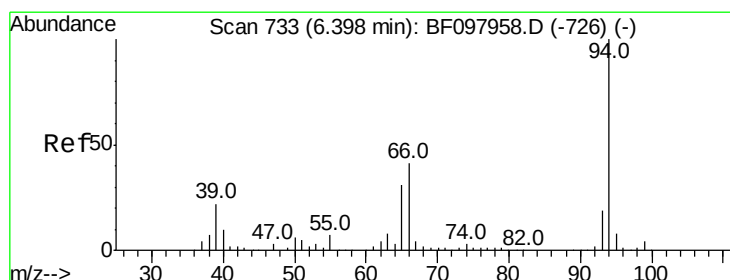
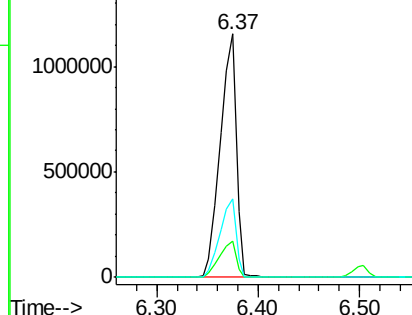
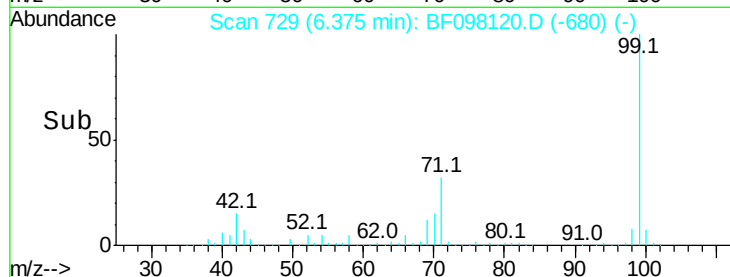
99 100

42 14.8 13.5 20.3

71 32.0 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



#10

Phenol

Concen: 3.379 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.02 min

Lab File: BF098120.D

Acq: 29 Aug 2017 19:36

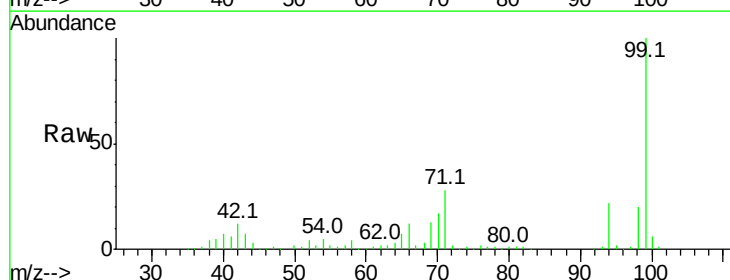
Tgt Ion: 94 Resp: 47445

Ion Ratio Lower Upper

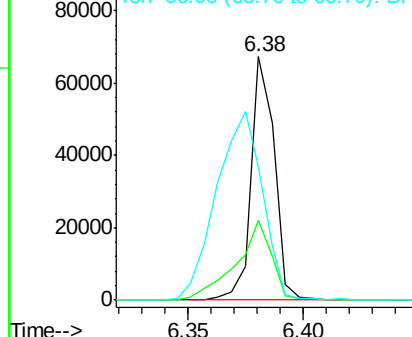
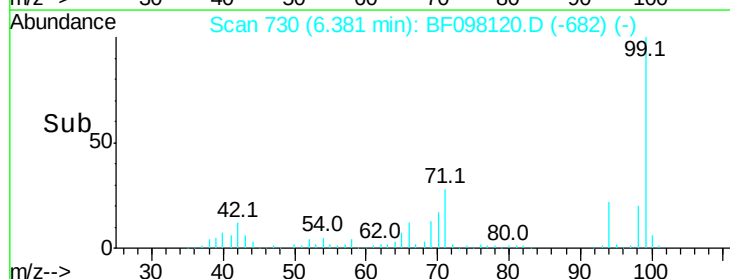
94 100

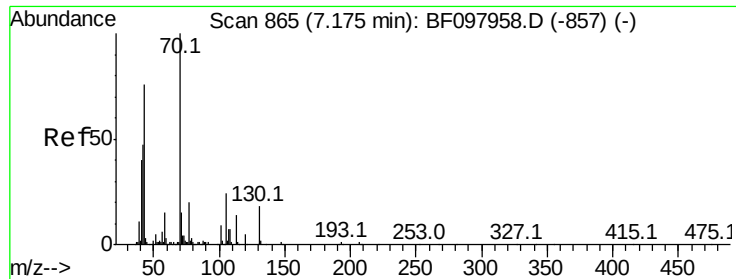
65 32.7 9.9 49.9

66 55.0 23.1 63.1



Abundance Ion 94.00 (93.70 to 94.70): BF0
Ion 65.00 (64.70 to 65.70): BF0
Ion 66.00 (65.70 to 66.70): BF0





#19

n-Nitroso-di-n-propylamine

Concen: 13.057 ng

RT: 7.30 min Scan# 886

Delta R.T. 0.12 min

Lab File: BF098120.D

Acq: 29 Aug 2017 19:36

Instrument :

BNA_F

ClientSampleId :

Tot Ion: 70 Resp: 107323

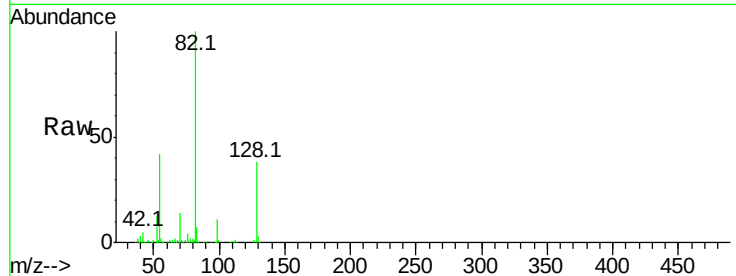
Ion Ratio Lower Upper

70 100

42 39.2 47.2 70.8#

101 0.0 7.2 10.8#

130 1.7 15.9 23.9#

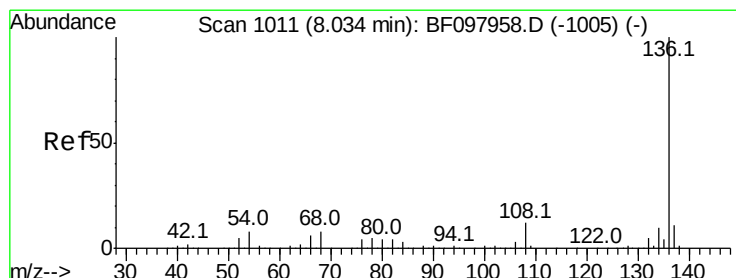
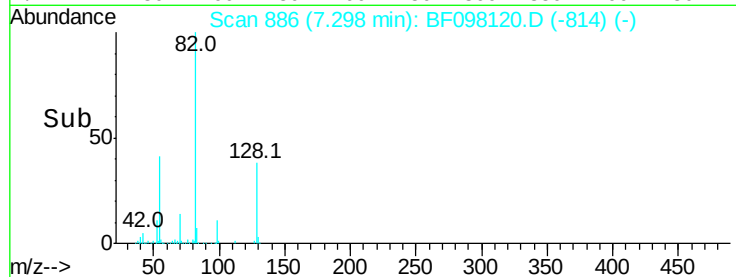
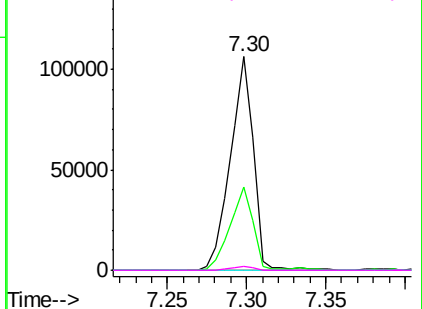


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.02 min Scan# 1008

Delta R.T. -0.02 min

Lab File: BF098120.D

Acq: 29 Aug 2017 19:36

Tgt Ion: 136 Resp: 541582

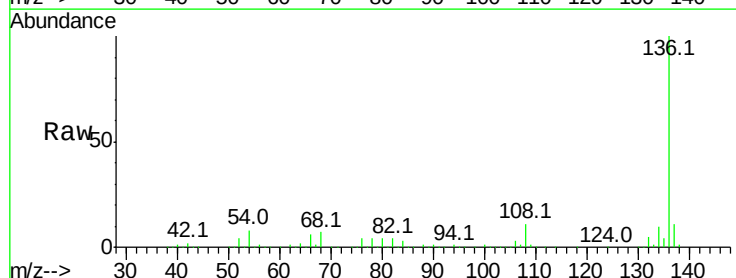
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 7.7 4.9 7.3#

68 7.0 4.1 6.1#

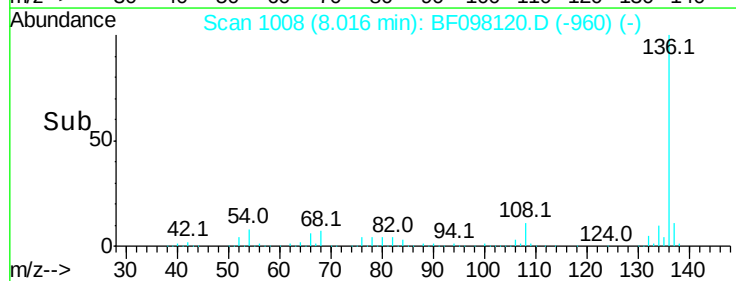
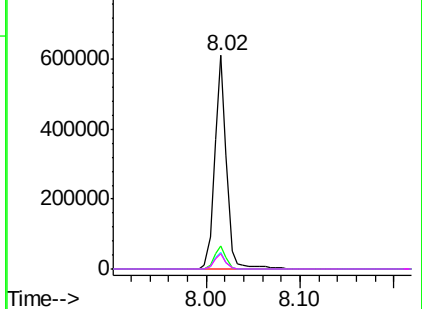


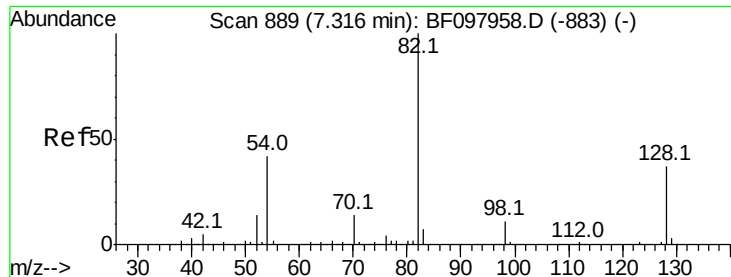
Abundance Ion 136.00 (135.70 to 136.70): BF0

Ion 137.00 (136.70 to 137.70): BF0

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

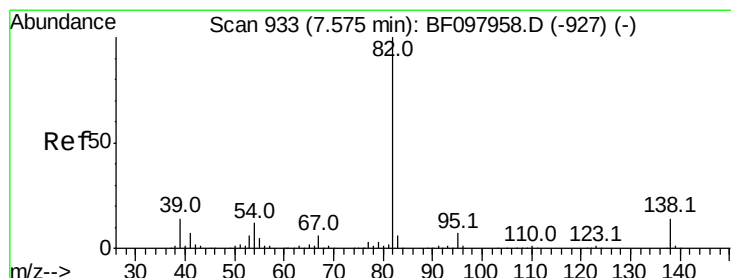
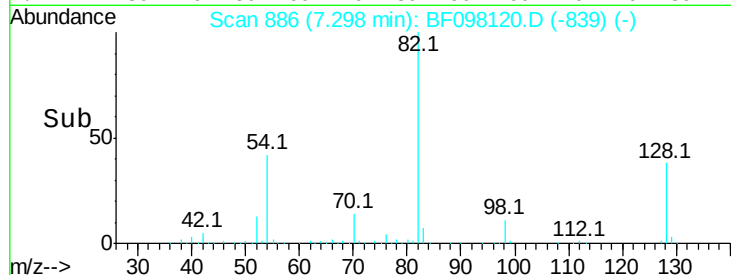
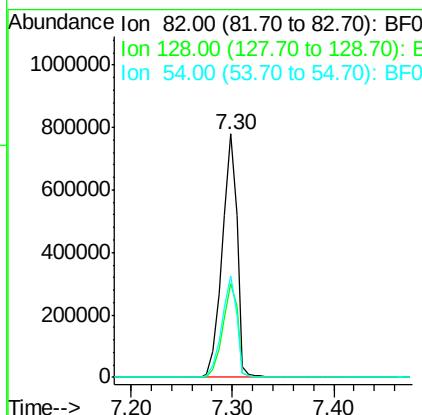
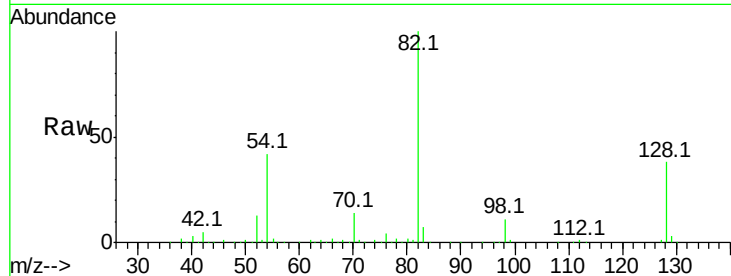




#23
 Nitrobenzene-d5
 Concen: 79.681 ng
 RT: 7.30 min Scan# 886
 Delta R.T. -0.02 min
 Lab File: BF098120.D
 Acq: 29 Aug 2017 19:36

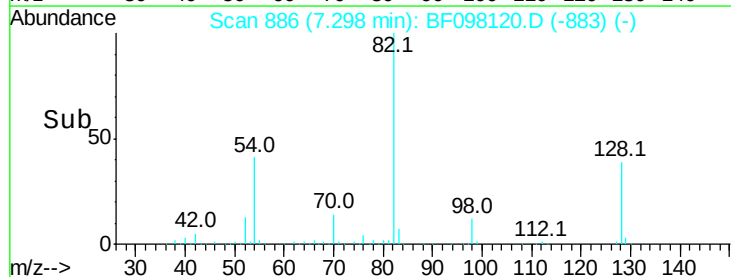
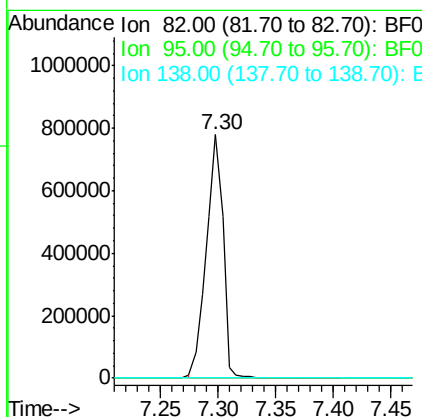
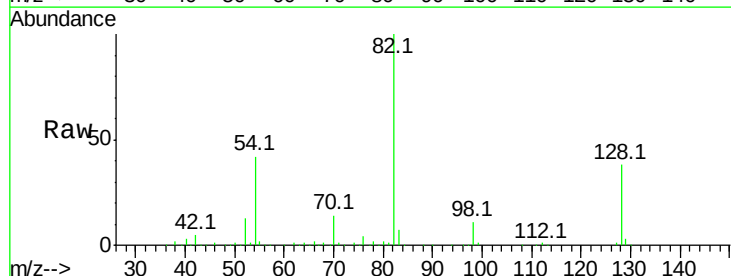
Instrument :
 BNA_F
 ClientSampleId :

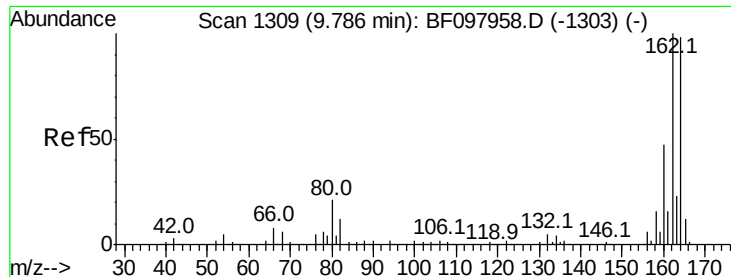
Tot Ion: 82 Resp: 794370
 Ion Ratio Lower Upper
 82 100
 128 38.4 34.0 51.0
 54 41.6 42.2 63.2#



#25
 Isophorone
 Concen: 37.808 ng
 RT: 7.30 min Scan# 886
 Delta R.T. -0.28 min
 Lab File: BF098120.D
 Acq: 29 Aug 2017 19:36

Tgt Ion: 82 Resp: 783763
 Ion Ratio Lower Upper
 82 100
 95 0.0 5.3 7.9#
 138 0.0 13.1 19.7#

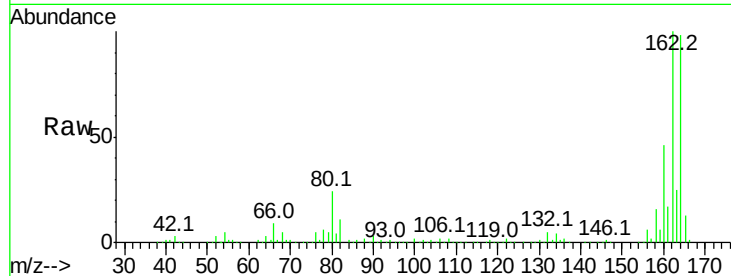




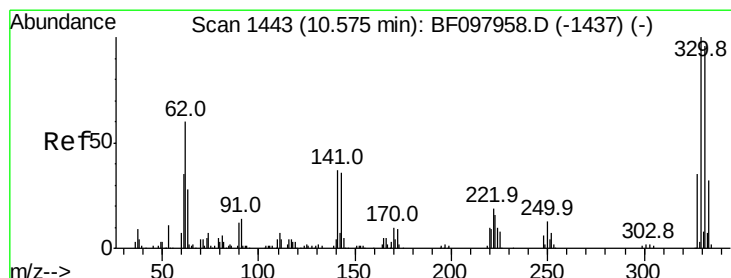
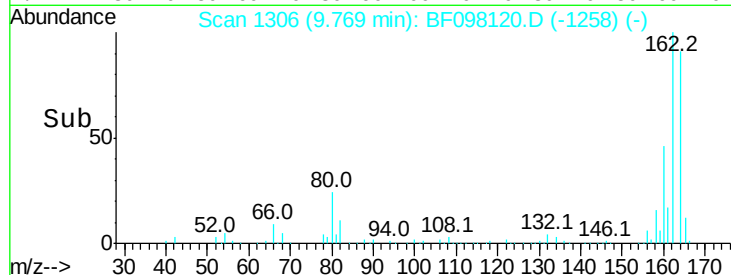
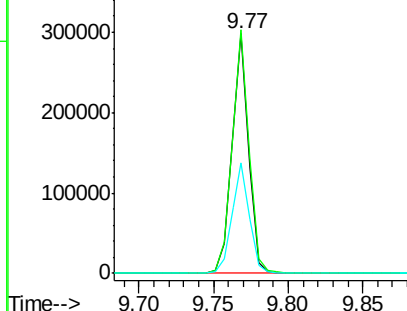
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.77 min Scan# 1306
 Delta R.T. -0.02 min
 Lab File: BF098120.D
 Acq: 29 Aug 2017 19:36

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.8	82.6	123.8
160	46.3	36.2	54.2

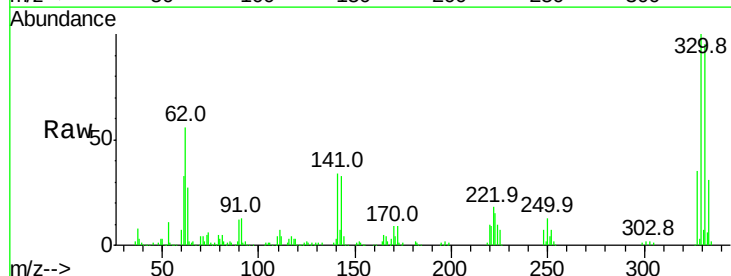


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

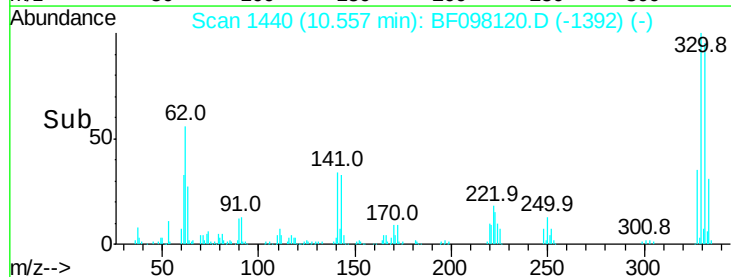
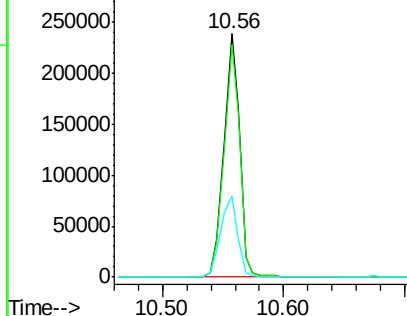


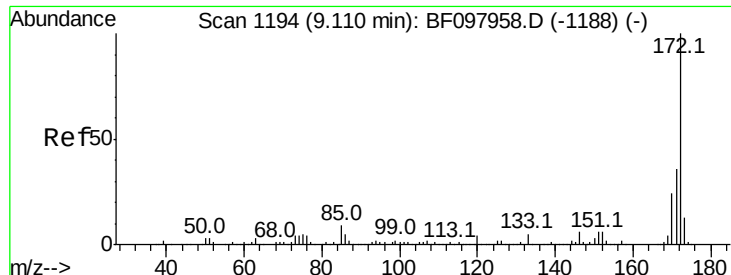
#41
 2,4,6-Tribromophenol
 Concen: 104.719 ng
 RT: 10.56 min Scan# 1440
 Delta R.T. -0.02 min
 Lab File: BF098120.D
 Acq: 29 Aug 2017 19:36

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.5	76.6	115.0
141	36.4	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

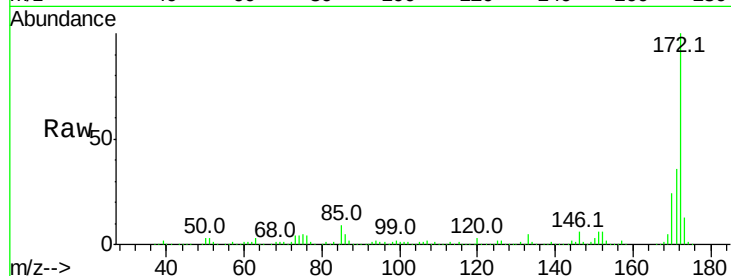




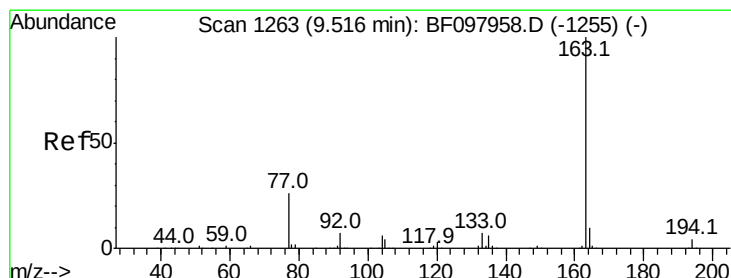
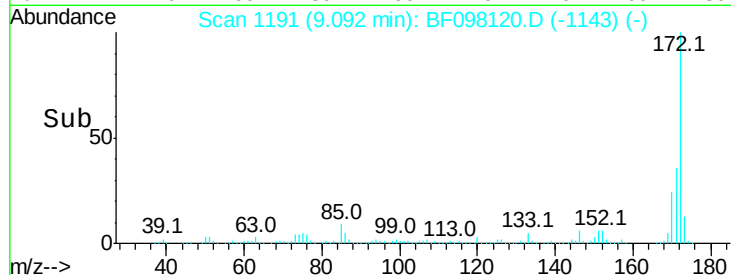
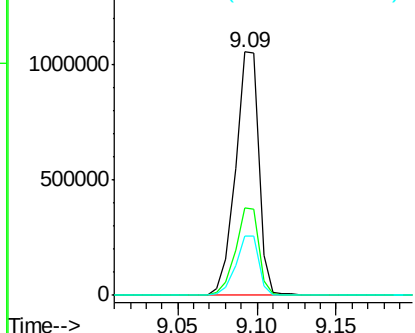
#44
2-Fluorobiphenyl
Concen: 67.149 ng
RT: 9.09 min Scan# 1191
Delta R.T. -0.02 min
Lab File: BF098120.D
Acq: 29 Aug 2017 19:36

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 1081904
Ion Ratio Lower Upper
172 100
171 35.7 29.6 44.4
170 24.4 19.8 29.8

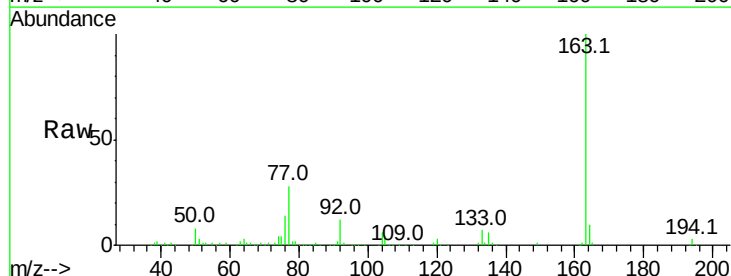


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

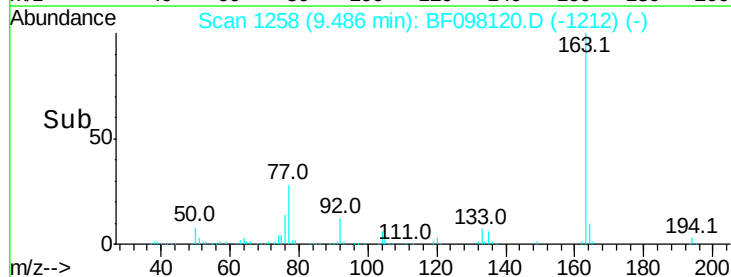
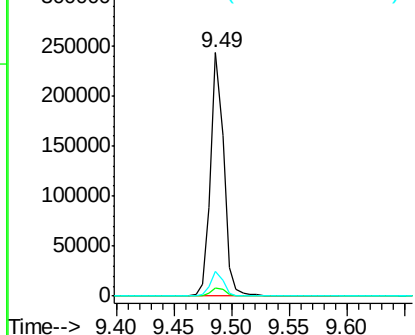


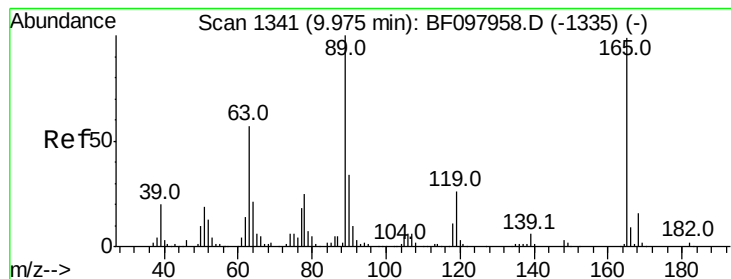
#49
Dimethylphthalate
Concen: 11.234 ng
RT: 9.49 min Scan# 1258
Delta R.T. -0.03 min
Lab File: BF098120.D
Acq: 29 Aug 2017 19:36

Tgt Ion:163 Resp: 194386
Ion Ratio Lower Upper
163 100
194 3.4 2.6 4.0
164 10.1 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#56

2,4-Dinitrotoluene

Concen: 7.090 ng

RT: 9.77 min Scan# 1306

Delta R.T. -0.21 min

Lab File: BF098120.D

Acq: 29 Aug 2017 19:36

Instrument :

BNA_F

ClientSampleId :

Tot Ion:165 Resp: 30733

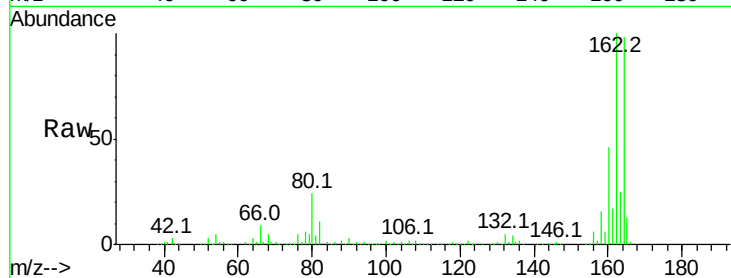
Ion Ratio Lower Upper

165 100

63 1.1 25.4 38.0#

89 1.8 46.4 69.6#

182 0.0 1.8 2.6#

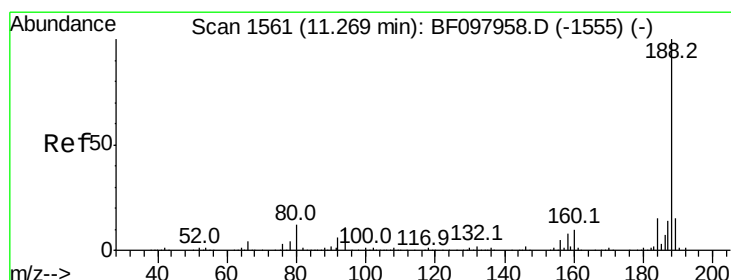
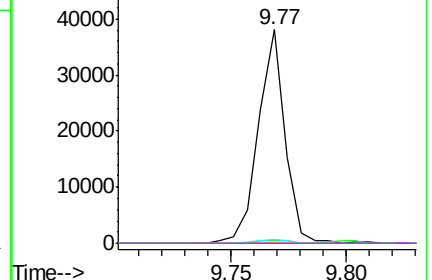
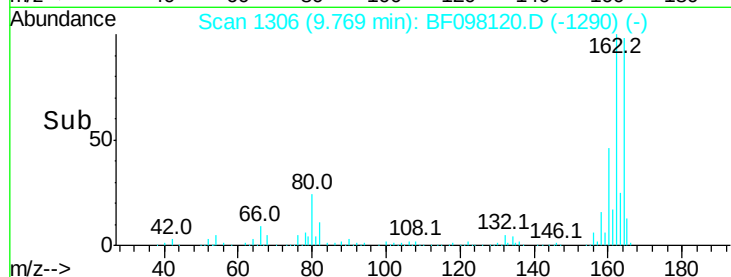


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.25 min Scan# 1558

Delta R.T. -0.01 min

Lab File: BF098120.D

Acq: 29 Aug 2017 19:36

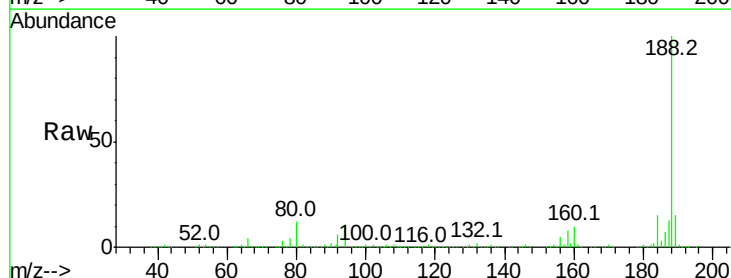
Tgt Ion:188 Resp: 398291

Ion Ratio Lower Upper

188 100

94 11.2 9.4 14.2

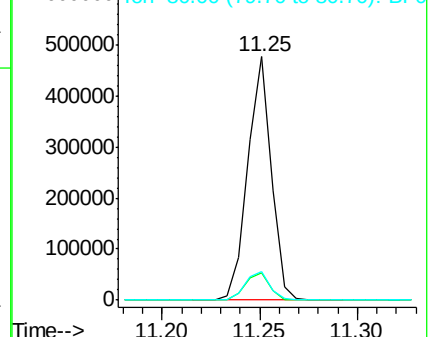
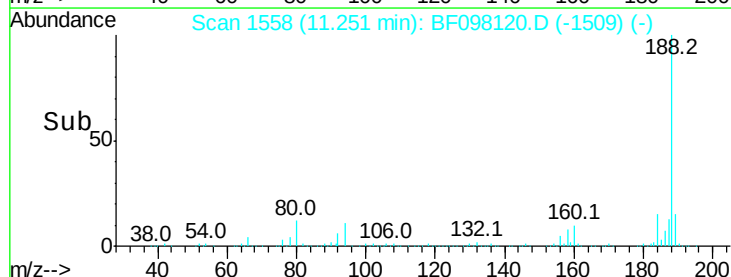
80 11.9 10.2 15.2

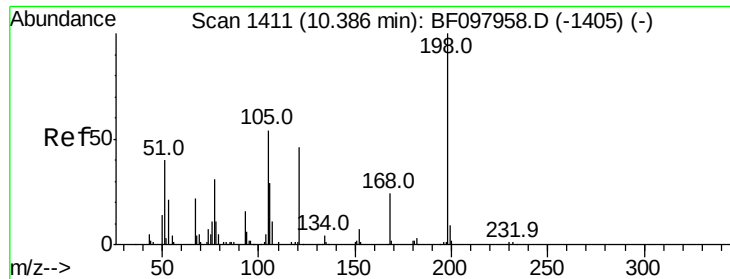


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#64

4,6-Dinitro-2-methylphenol

Concen: 8.533 ng

RT: 10.56 min Scan# 1440

Delta R.T. 0.18 min

Lab File: BF098120.D

Acq: 29 Aug 2017 19:36

Instrument :

BNA_F

ClientSampled :

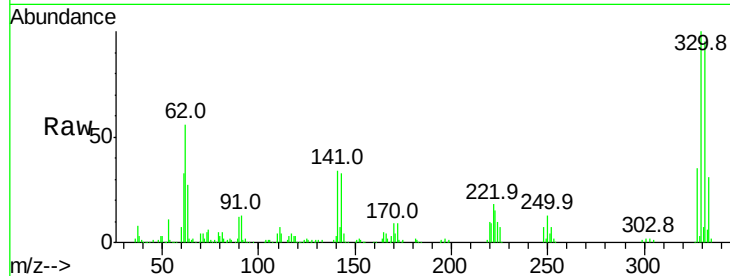
Tot Ion:198 Resp: 481

Ion Ratio Lower Upper

198 100

51 149.3 53.2 93.2#

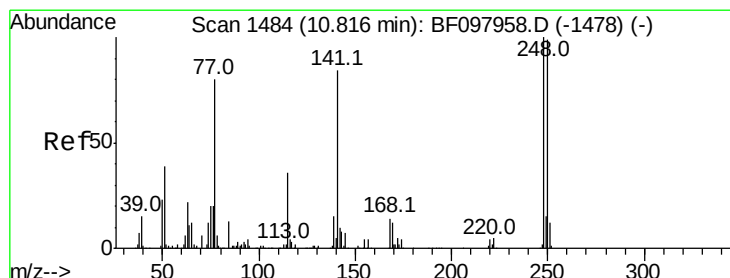
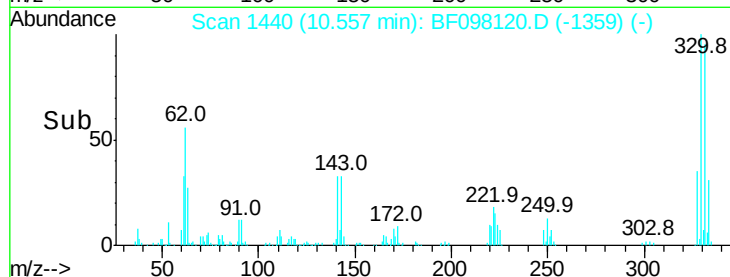
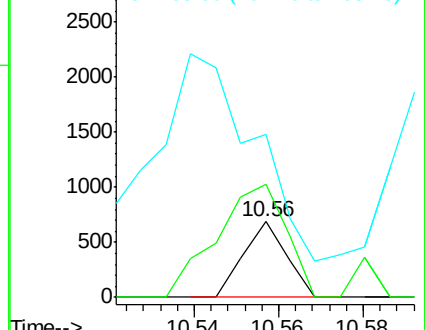
105 215.6 45.8 85.8#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



#66

4-Bromophenyl-phenylether

Concen: 3.401 ng

RT: 10.56 min Scan# 1440

Delta R.T. -0.26 min

Lab File: BF098120.D

Acq: 29 Aug 2017 19:36

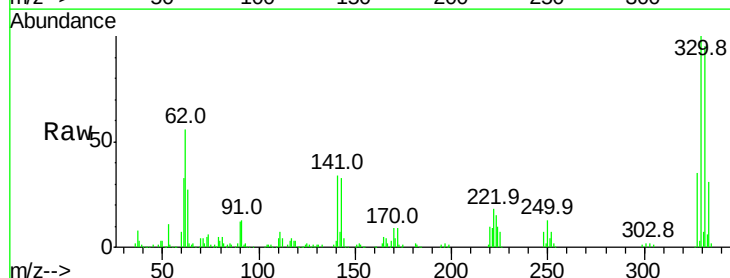
Tgt Ion:248 Resp: 14066

Ion Ratio Lower Upper

248 100

250 195.7 76.8 115.2#

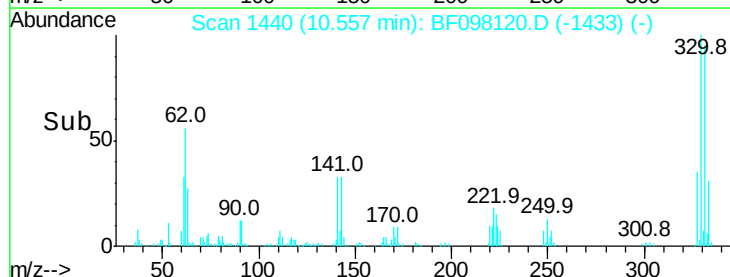
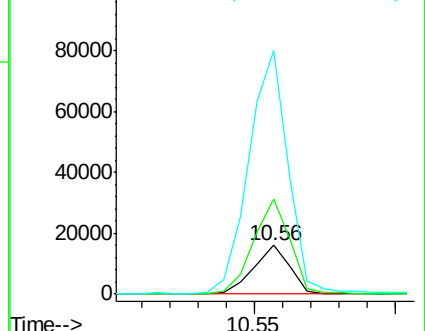
141 500.6 68.6 103.0#

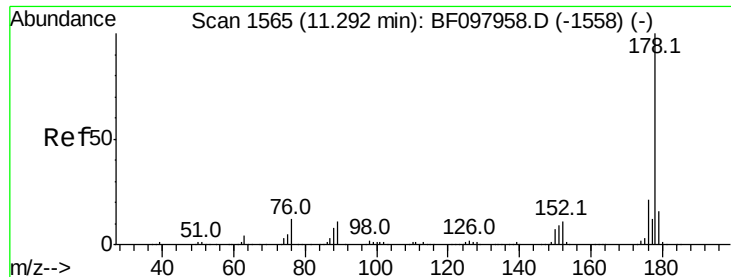


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 2.869 ng

RT: 11.27 min Scan# 1562

Delta R.T. -0.02 min

Lab File: BF098120.D

Acq: 29 Aug 2017 19:36

Instrument :

BNA_F

ClientSampled :

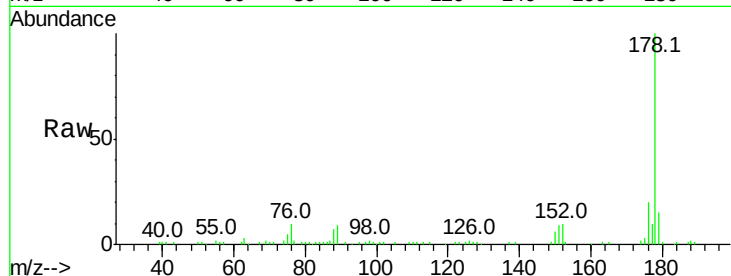
Tot Ion:178 Resp: 60888

Ion Ratio Lower Upper

178 100

176 20.1 16.2 24.4

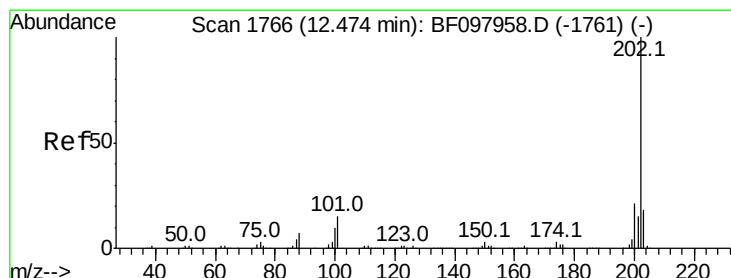
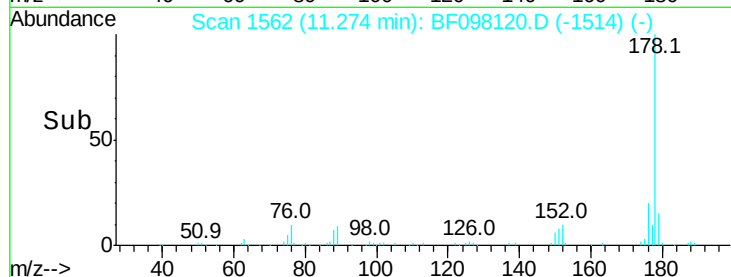
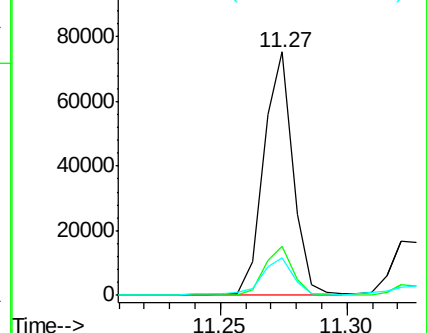
179 15.3 12.6 19.0



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



#74

Fluoranthene

Concen: 6.904 ng

RT: 12.46 min Scan# 1763

Delta R.T. -0.02 min

Lab File: BF098120.D

Acq: 29 Aug 2017 19:36

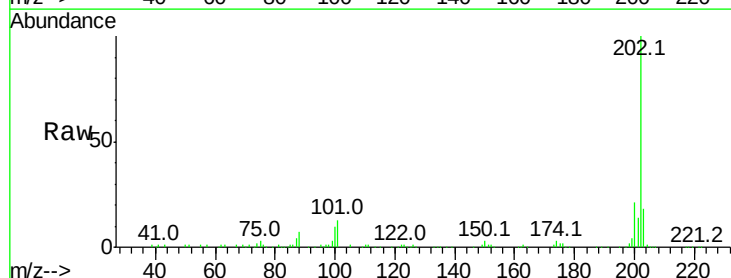
Tgt Ion:202 Resp: 152946

Ion Ratio Lower Upper

202 100

101 13.3 0.0 33.2

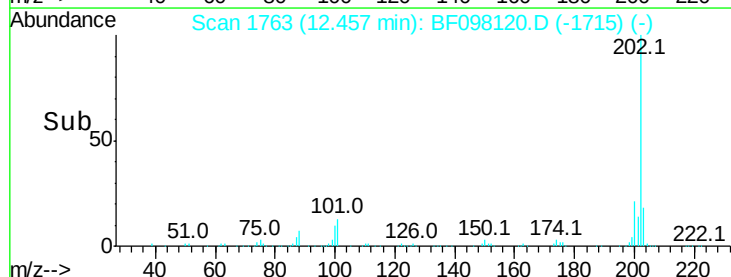
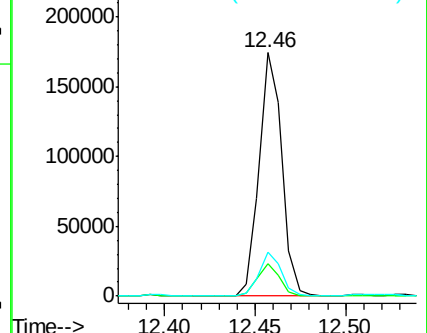
203 18.0 0.0 38.1

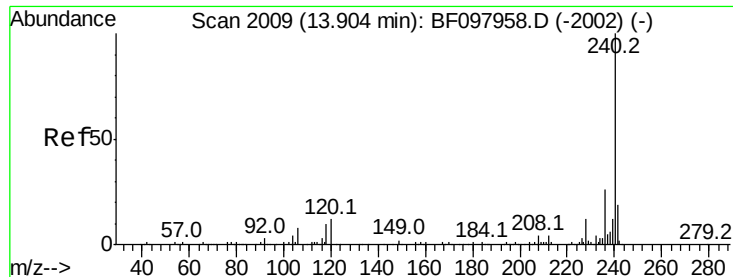


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.89 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BF098120.D

Acq: 29 Aug 2017 19:36

Instrument :

BNA_F

ClientSampleId :

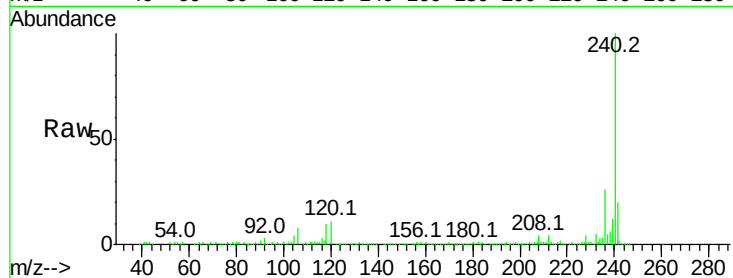
Tot Ion:240 Resp: 283262

Ion Ratio Lower Upper

240 100

120 11.4 5.8 8.8#

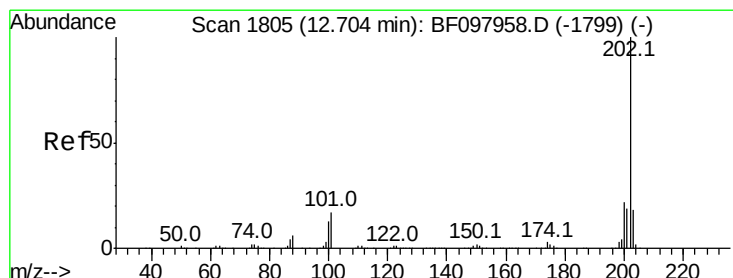
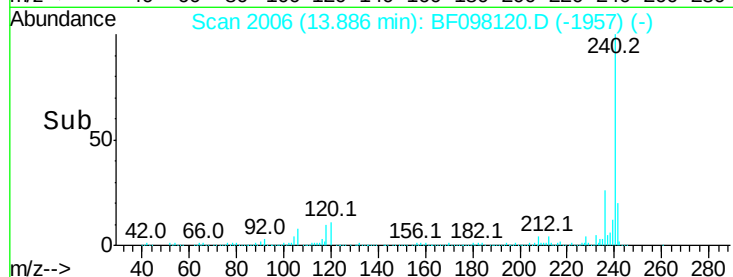
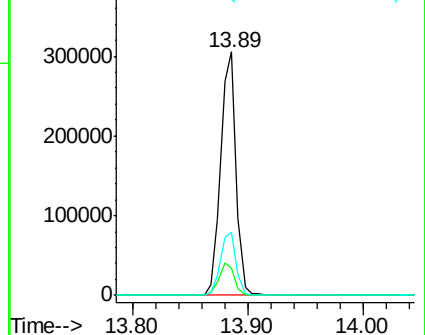
236 25.8 20.5 30.7



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: 6.501 ng

RT: 12.69 min Scan# 1802

Delta R.T. -0.02 min

Lab File: BF098120.D

Acq: 29 Aug 2017 19:36

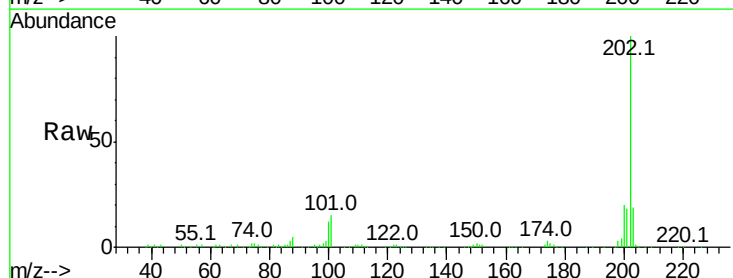
Tgt Ion:202 Resp: 150609

Ion Ratio Lower Upper

202 100

200 19.8 17.6 26.4

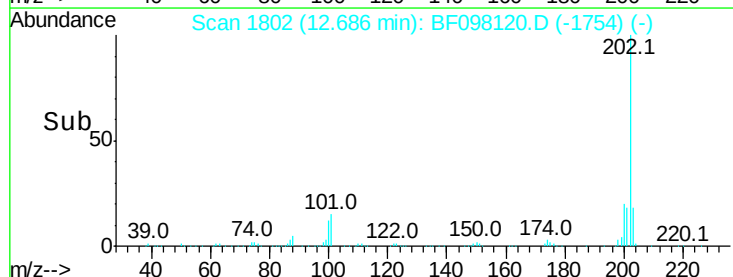
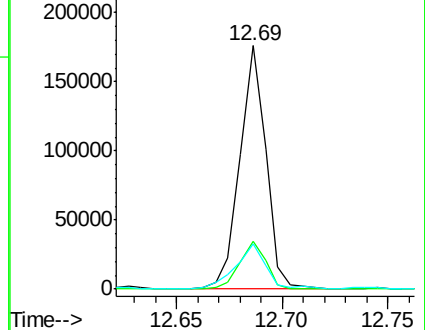
203 18.5 14.4 21.6

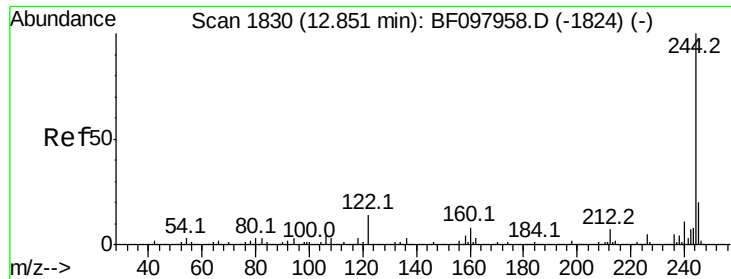


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 56.809 ng

RT: 12.84 min Scan# 1828

Delta R.T. -0.01 min

Lab File: BF098120.D

Acq: 29 Aug 2017 19:36

Instrument :

BNA_F

ClientSampleId :

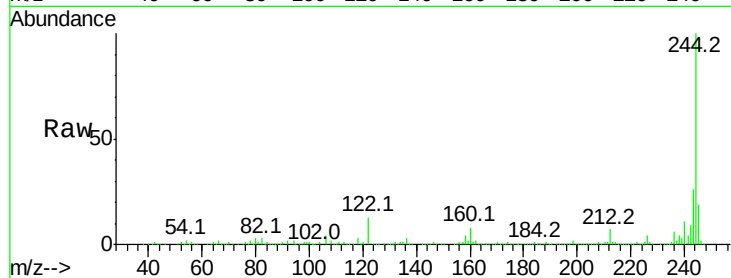
Tot Ion:244 Resp: 771669

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

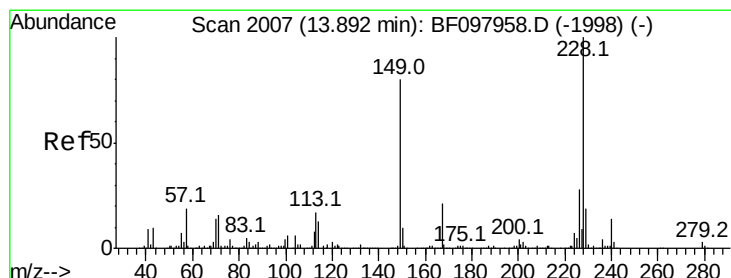
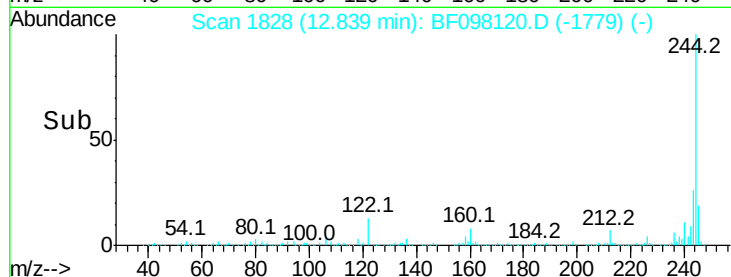
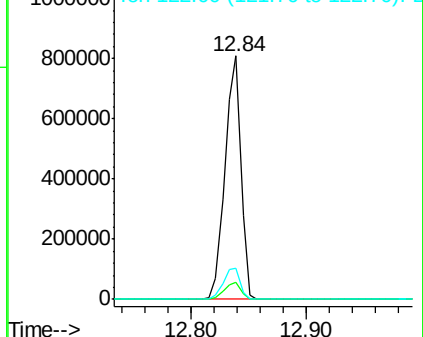
122 12.6 10.3 15.5



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: 4.762 ng

RT: 13.87 min Scan# 2004

Delta R.T. -0.01 min

Lab File: BF098120.D

Acq: 29 Aug 2017 19:36

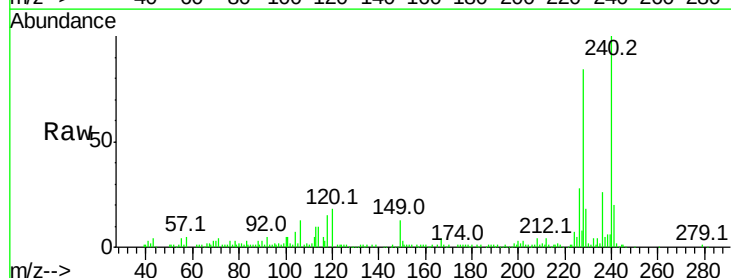
Tgt Ion:228 Resp: 80837

Ion Ratio Lower Upper

228 100

226 33.1 22.6 33.8

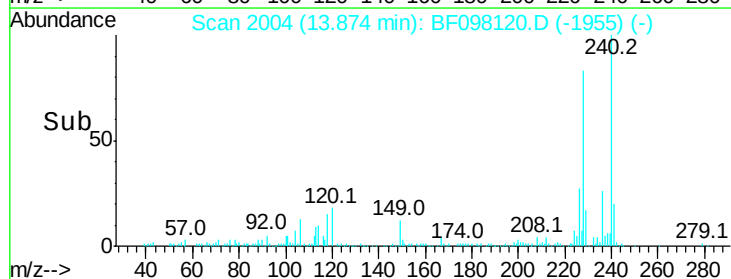
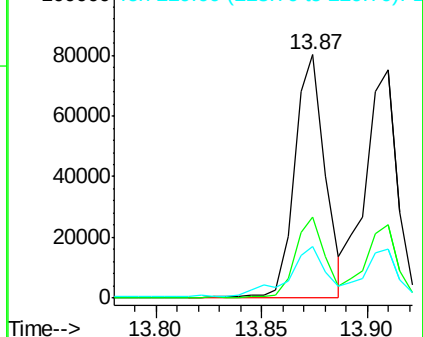
229 21.1 16.3 24.5

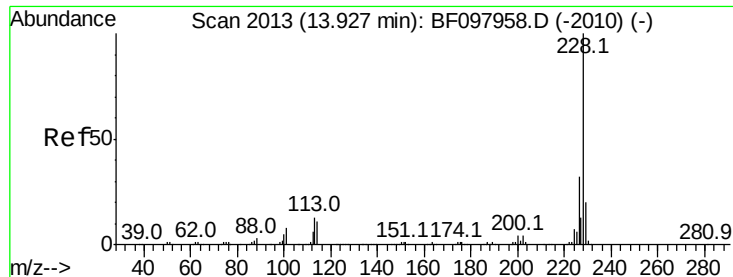


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 4.801 ng

RT: 13.91 min Scan# 2010

Delta R.T. -0.02 min

Lab File: BF098120.D

Acq: 29 Aug 2017 19:36

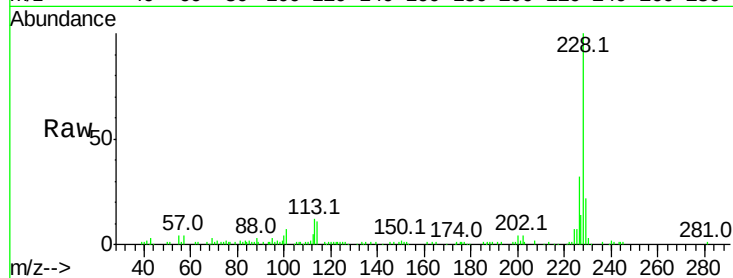
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 81083

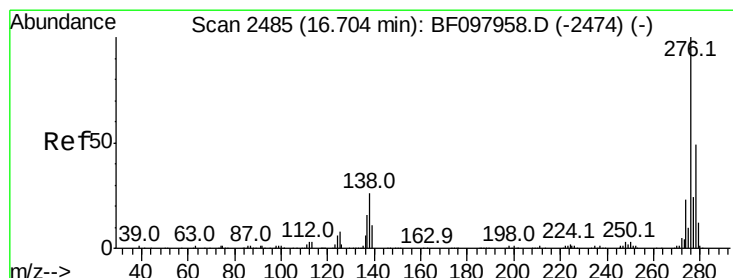
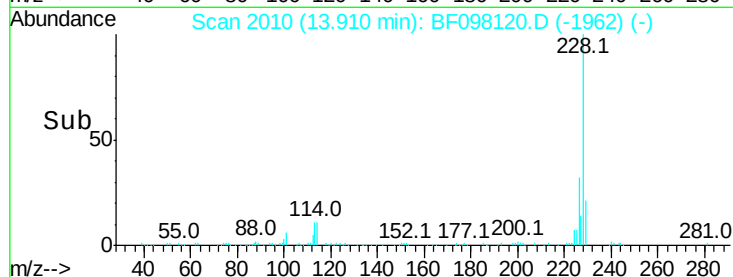
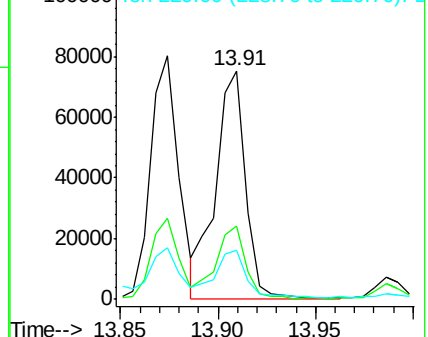
Ion	Ratio	Lower	Upper
228	100		
226	31.9	24.9	37.3
229	21.5	15.8	23.6



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: 2.630 ng

RT: 16.67 min Scan# 2479

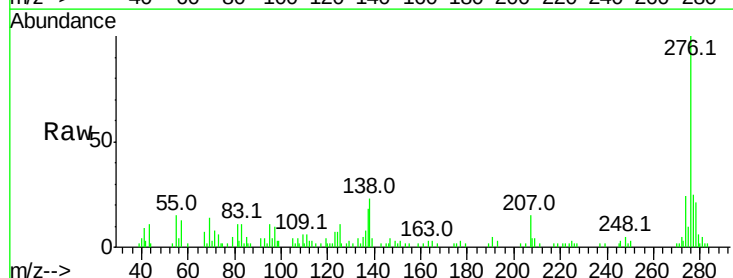
Delta R.T. -0.02 min

Lab File: BF098120.D

Acq: 29 Aug 2017 19:36

Tgt Ion:276 Resp: 32680

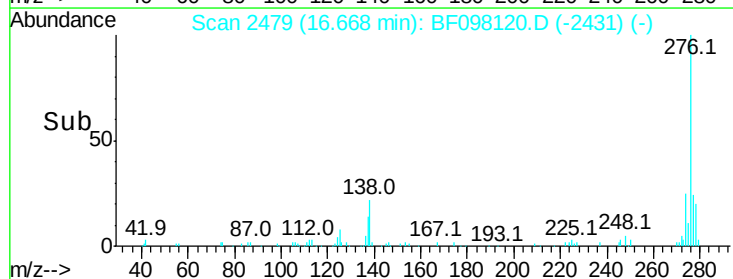
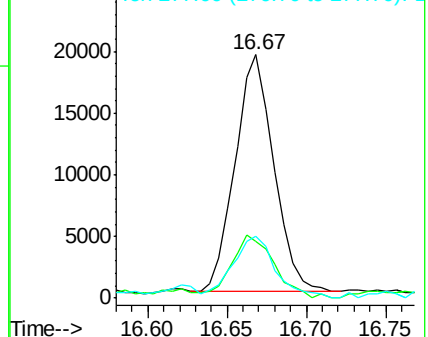
Ion	Ratio	Lower	Upper
276	100		
138	28.9	27.8	41.6
277	29.0	20.2	30.4

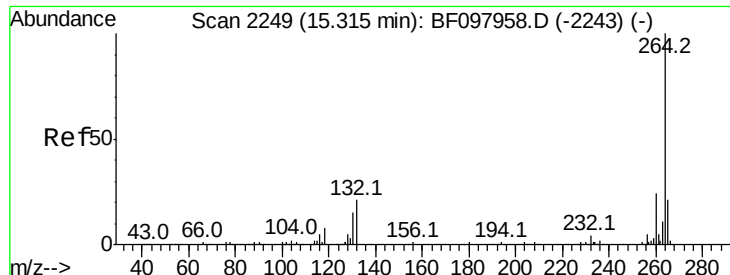


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



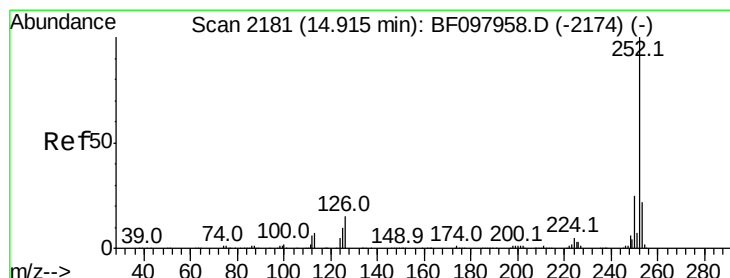
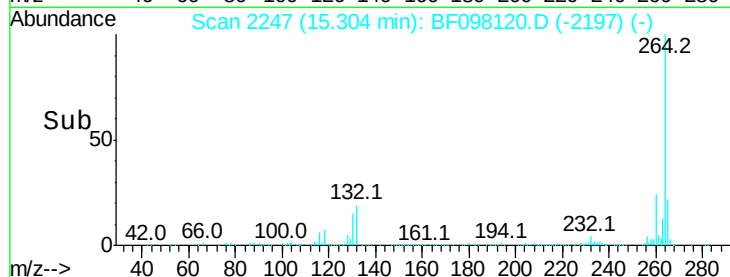
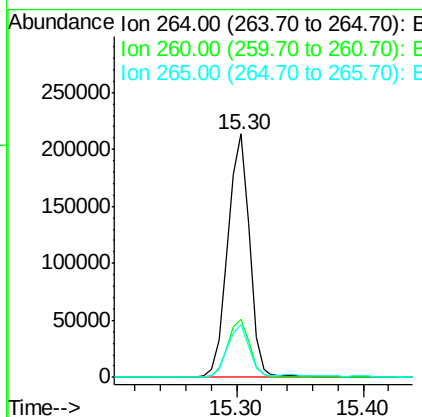
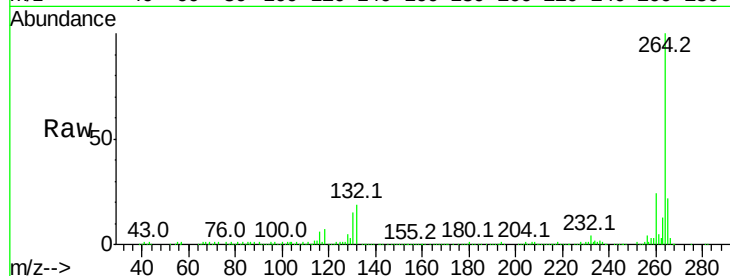


#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.30 min Scan# 2247
Delta R.T. -0.01 min
Lab File: BF098120.D
Acq: 29 Aug 2017 19:36

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 253412

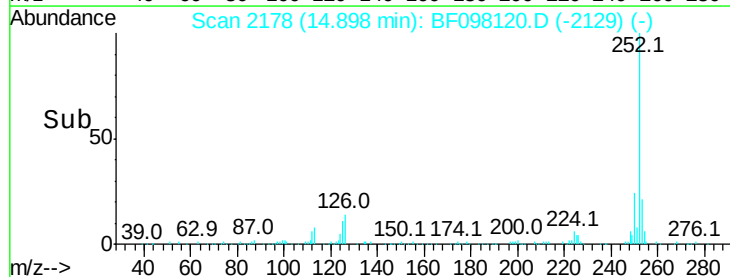
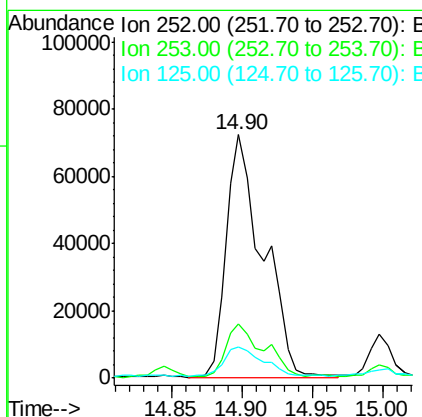
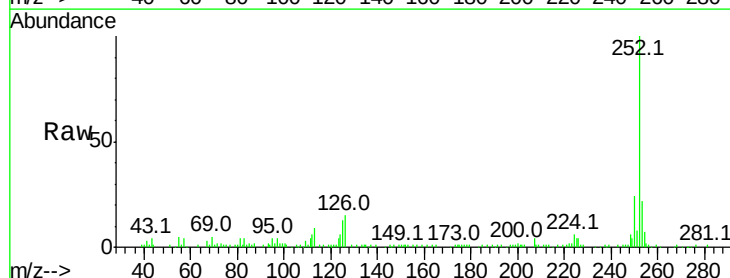
Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.5	29.3
265	21.8	17.2	25.8

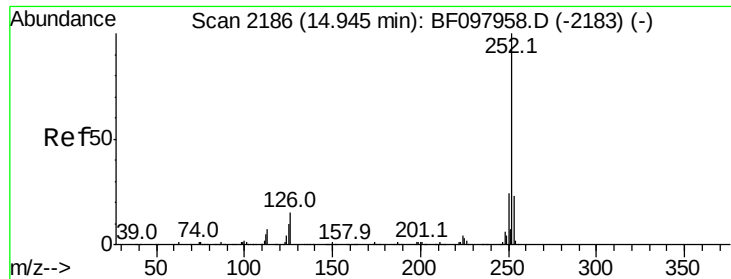


#87
Benzo(b)fluoranthene
Concen: 8.272 ng
RT: 14.90 min Scan# 2178
Delta R.T. -0.01 min
Lab File: BF098120.D
Acq: 29 Aug 2017 19:36

Tgt Ion:252 Resp: 132130

Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.1	27.1
125	12.8	9.8	14.8

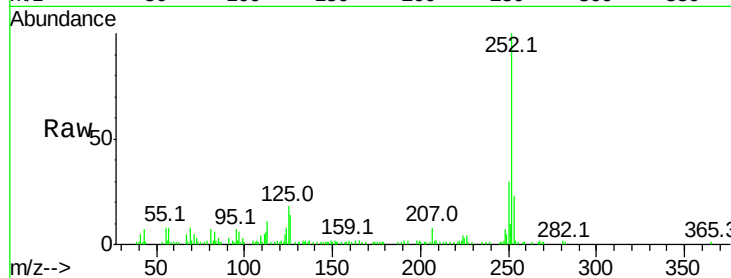




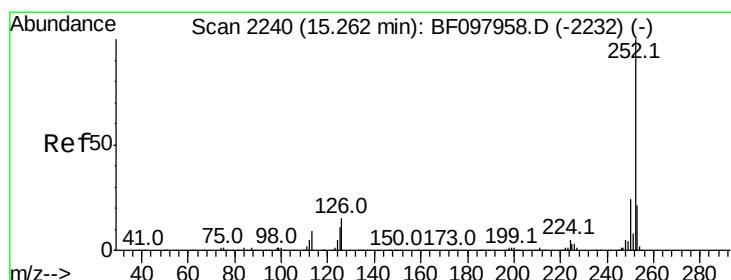
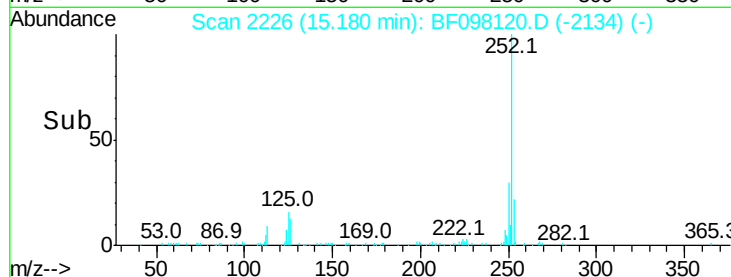
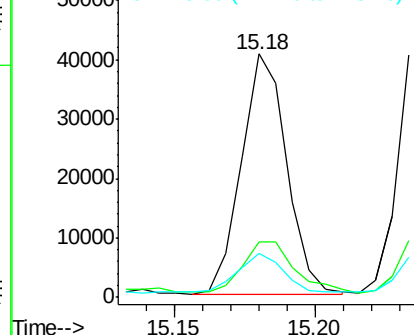
#88
Benzo(k)fluoranthene
Concen: 3.019 ng
RT: 15.18 min Scan# 2226
Delta R.T. 0.24 min
Lab File: BF098120.D
Acq: 29 Aug 2017 19:36

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.4	27.6
125	18.0	13.1	19.7

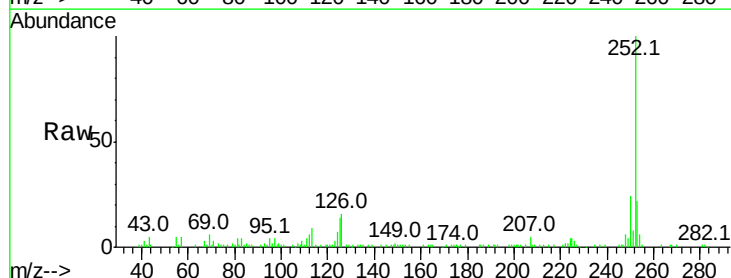


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

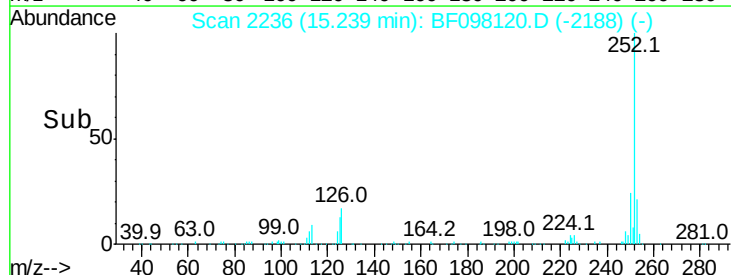
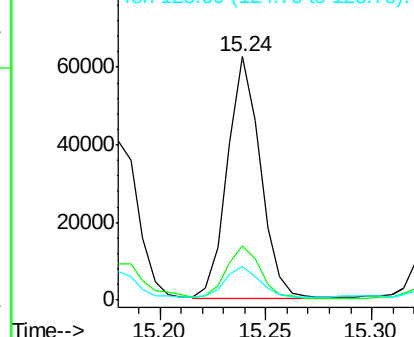


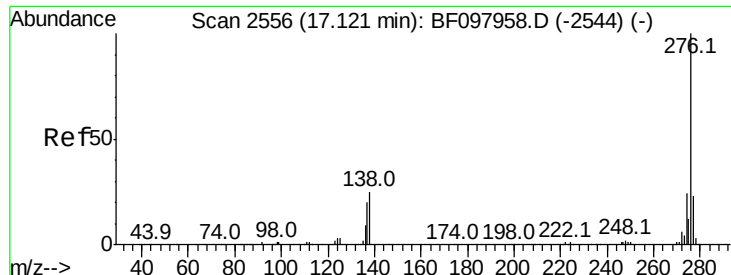
#89
Benzo(a)pyrene
Concen: 4.795 ng
RT: 15.24 min Scan# 2236
Delta R.T. -0.02 min
Lab File: BF098120.D
Acq: 29 Aug 2017 19:36

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	14.0	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





#91

Benzo(a,h,i)perylene

Concen: 2.702 ng

RT: 17.08 min Scan# 2549

Delta R.T. -0.03 min

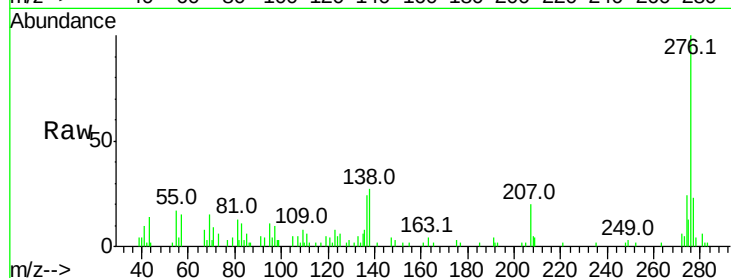
Lab File: BF098120.D

Acq: 29 Aug 2017 19:36

Instrument :

BNA_F

ClientSampleId :



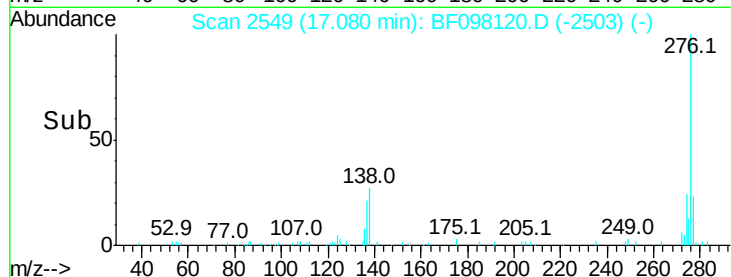
Tot Ion:276 Resp: 32451

Ion Ratio Lower Upper

276 100

277 22.9 18.6 28.0

138 26.9 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

