

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100717\
 Data File : BF099219.D
 Acq On : 8 Oct 2017 4:19
 Operator : SJ/JU
 Sample : I5530-04 20X
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 08 06:06:25 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sun Oct 08 03:54:40 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	106257	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	400632	20.00	ng	0.00
38) Acenaphthene-d10	9.90	164	148295	20.00	ng	0.00
63) Phenanthrene-d10	11.39	188	232360	20.00	ng	0.00
75) Chrysene-d12	14.03	240	195735	20.00	ng	0.00
86) Perylene-d12	15.50	264	154765	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	32532	4.87	ng	0.00
7) Phenol-d6	6.49	99	39779	4.83	ng	0.00
23) Nitrobenzene-d5	7.42	82	20030	3.21	ng	-0.01
41) 2,4,6-Tribromophenol	10.69	330	4146	3.42	ng	0.00
44) 2-Fluorobiphenyl	9.22	172	39496	4.45	ng	0.00
78) Terphenyl-d14	12.97	244	27036	3.14	ng	0.00

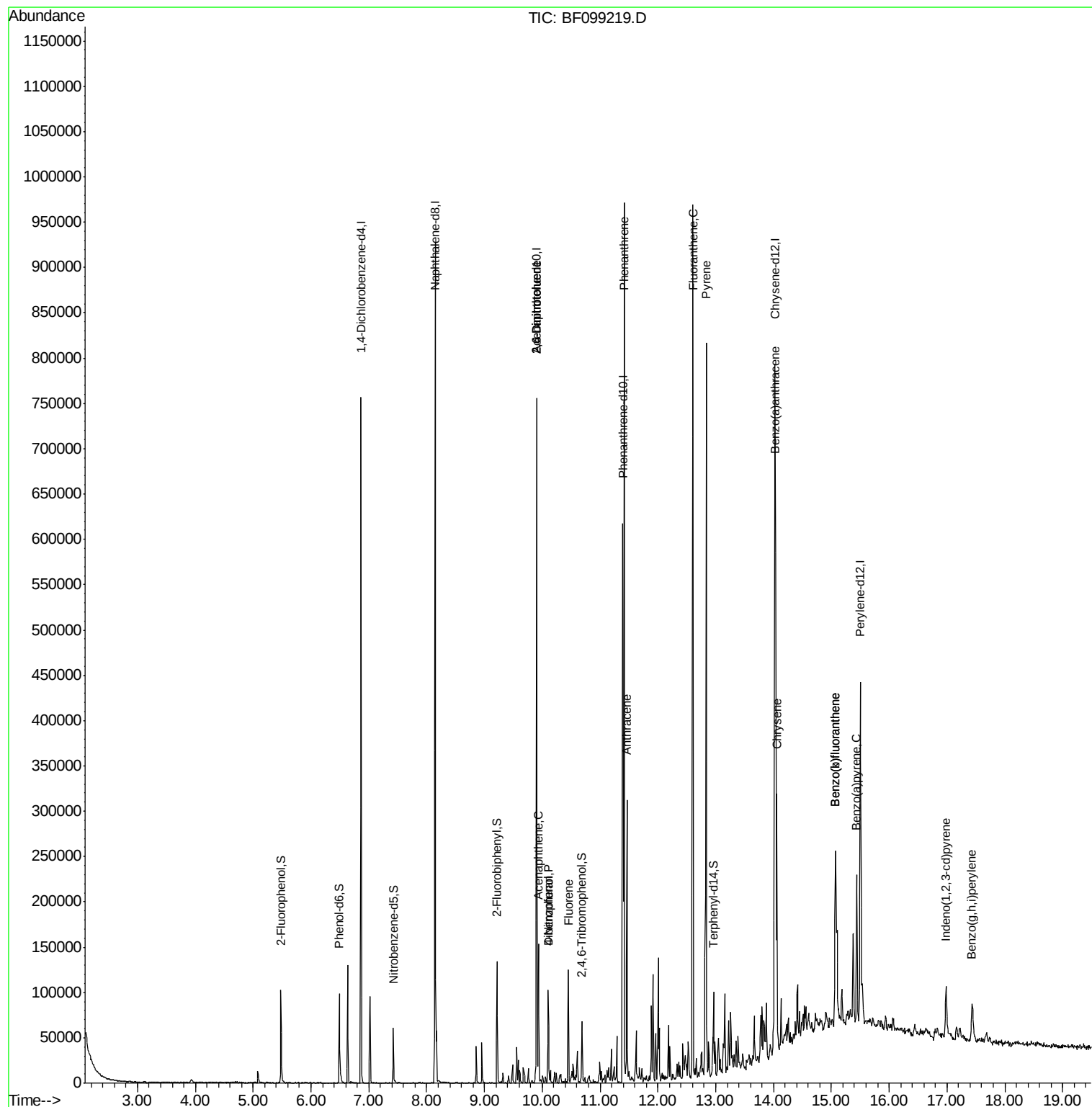
Target Compounds				Qvalue		
50) 2,6-Dinitrotoluene	9.90	165	19248	7.899	ng	# 24
51) Acenaphthene	9.93	154	27719	2.987	ng	99
54) Dibenzofuran	10.10	168	35730	2.892	ng	97
55) 4-Nitrophenol	10.10	139	13108	5.456	ng	# 9
56) 2,4-Dinitrotoluene	9.90	165	19248	6.087	ng	# 21
57) Fluorene	10.45	166	36570	3.683	ng	98
70) Phenanthrene	11.42	178	353616	28.431	ng	97
71) Anthracene	11.46	178	107646	8.459	ng	97
74) Fluoranthene	12.60	202	355102	28.195	ng	98
77) Pyrene	12.83	202	304334	20.390	ng	98
80) Benzo(a)anthracene	14.02	228	126738	10.693	ng	98
82) Chrysene	14.06	228	106834	9.468	ng	99
85) Indeno(1,2,3-cd)pyrene	16.99	276	34799	3.855	ng	95
87) Benzo(b)fluoranthene	15.07	252	139073	14.615	ng	# 96
88) Benzo(k)fluoranthene	15.07	252	139073	14.797	ng	# 96
89) Benzo(a)pyrene	15.44	252	72683	8.321	ng	# 94
91) Benzo(a,h,i)perylene	17.44	276	32893	4.760	ng	# 93

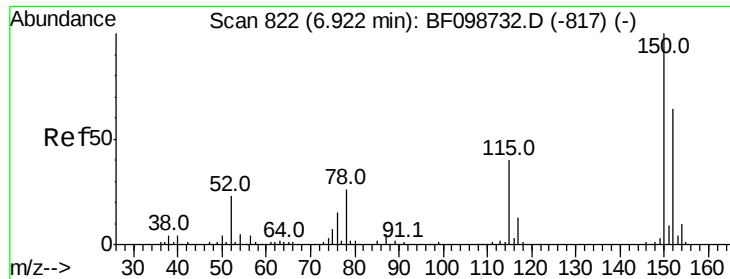
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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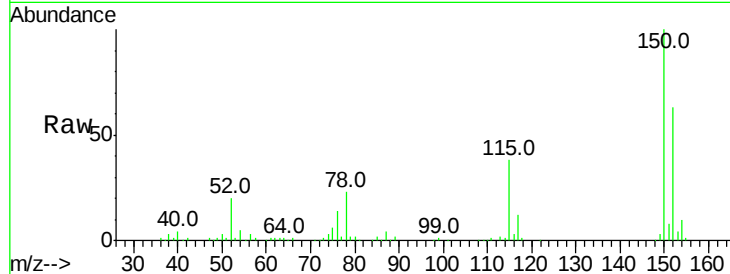


#1

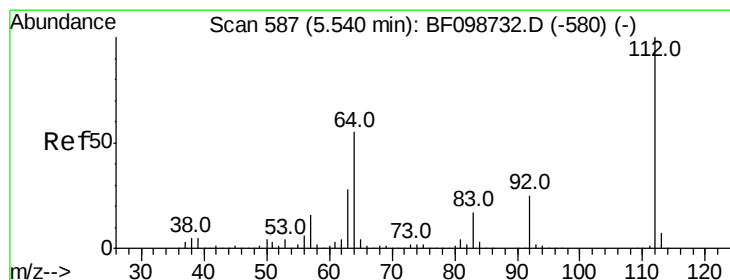
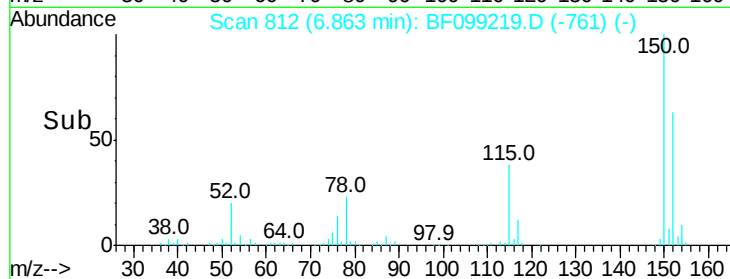
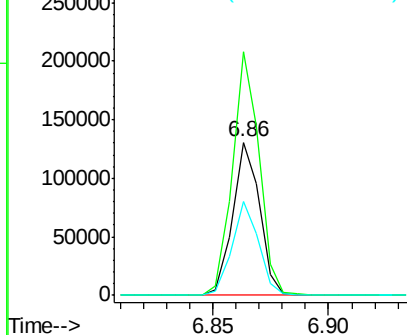
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 812
Delta R.T. -0.00 min
Lab File: BF099219.D
Acq: 8 Oct 2017 4:19

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.8	124.6	186.8
115	61.0	50.1	75.1



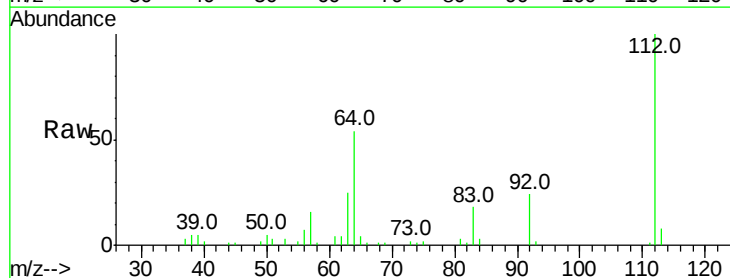
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



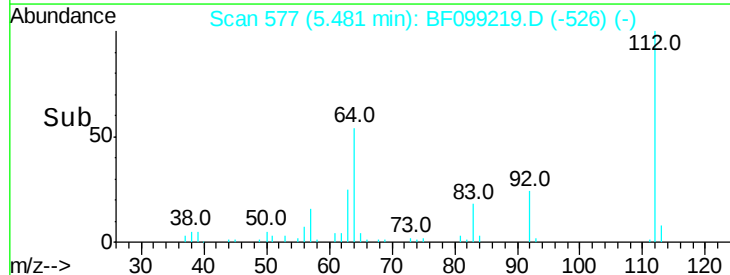
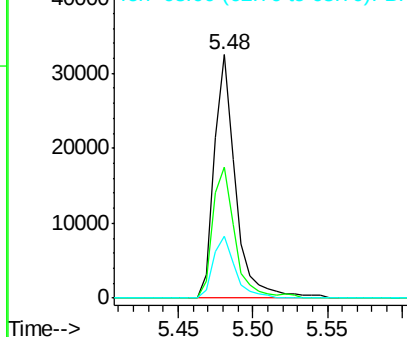
#5

2-Fluorophenol
Concen: 4.874 ng
RT: 5.48 min Scan# 577
Delta R.T. -0.00 min
Lab File: BF099219.D
Acq: 8 Oct 2017 4:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.8	47.9	71.9
63	25.1	23.7	35.5



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: 4.831 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF099219.D

Acq: 8 Oct 2017 4:19

Instrument :

BNA_F

ClientSampleId :

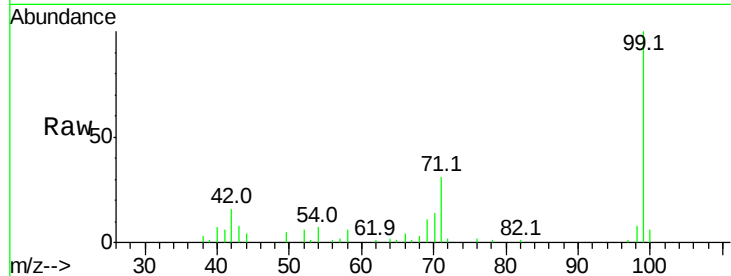
Tot Ion: 99 Resp: 39779

Ion Ratio Lower Upper

99 100

42 15.8 14.5 21.7

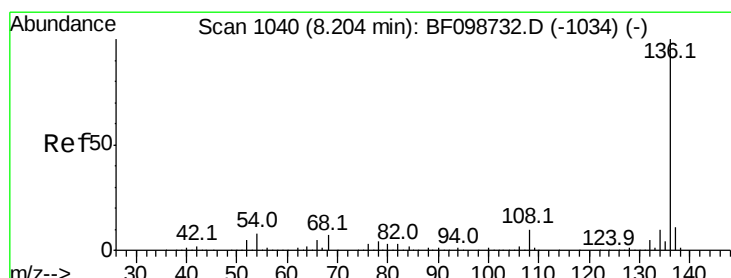
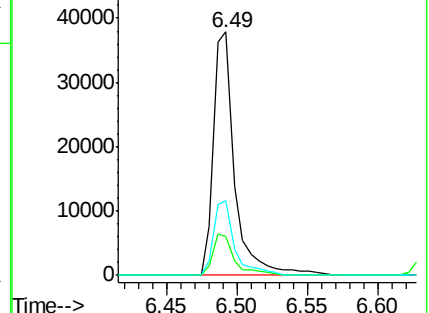
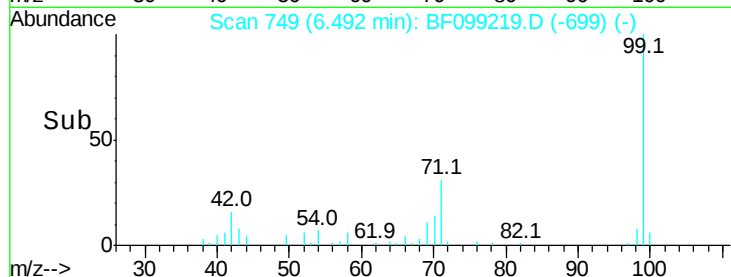
71 30.7 25.4 38.0



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: 8.15 min Scan# 1030

Delta R.T. -0.00 min

Lab File: BF099219.D

Acq: 8 Oct 2017 4:19

Tgt Ion: 136 Resp: 400632

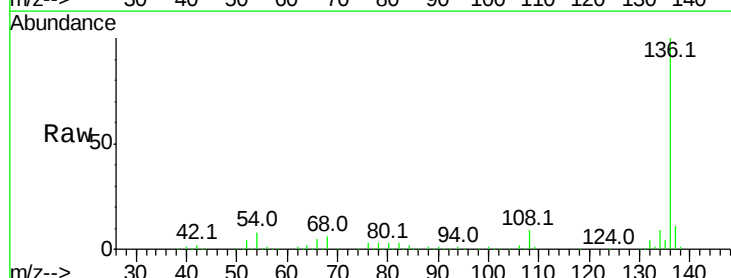
Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 7.6 6.6 9.8

68 6.1 5.0 7.4

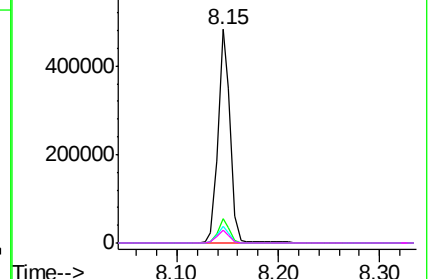
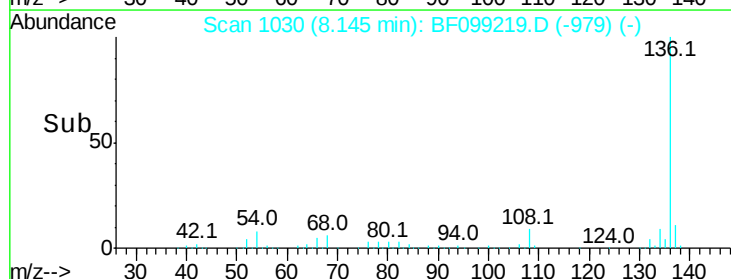


Abundance Ion 136.00 (135.70 to 136.70): E

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

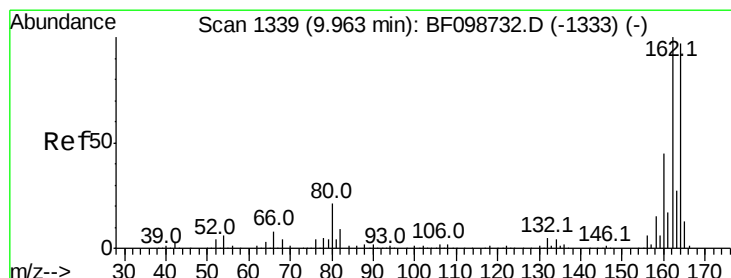
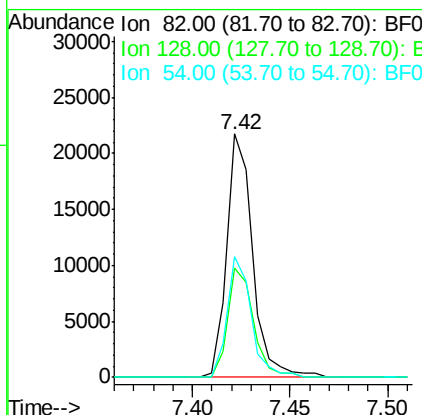
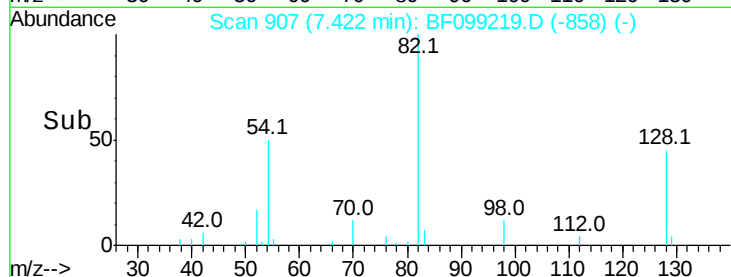
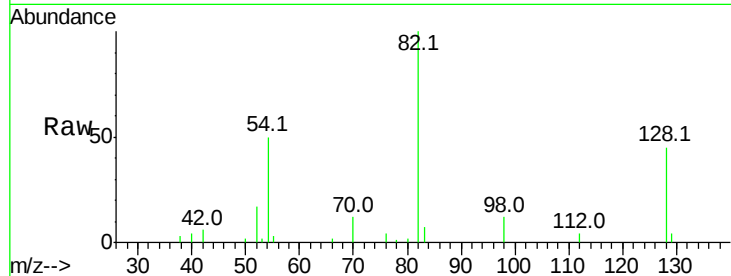




#23
Nitrobenzene-d5
Concen: 3.206 ng
RT: 7.42 min Scan# 907
Delta R.T. -0.01 min
Lab File: BF099219.D
Acq: 8 Oct 2017 4:19

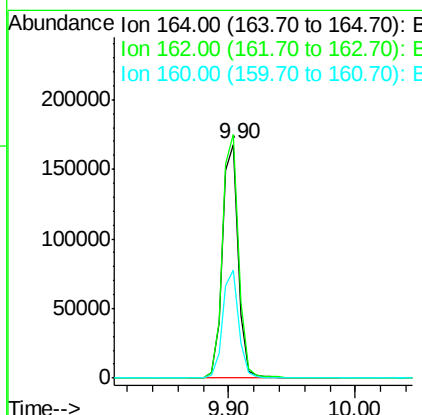
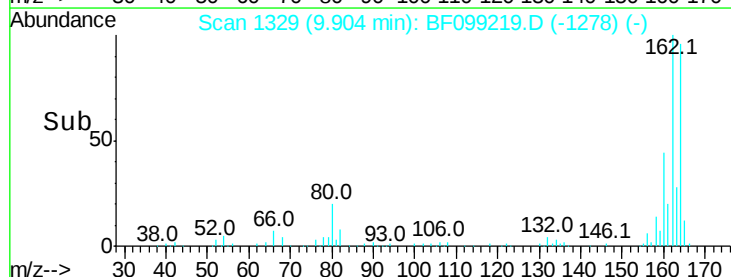
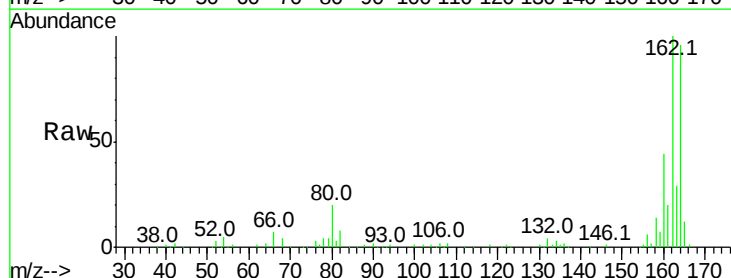
Instrument :
BNA_F
ClientSampled :

Tot Ion: 82 Resp: 20030
Ion Ratio Lower Upper
82 100
128 44.9 36.1 54.1
54 49.5 41.4 62.2



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1329
Delta R.T. -0.00 min
Lab File: BF099219.D
Acq: 8 Oct 2017 4:19

Tgt Ion:164 Resp: 148295
Ion Ratio Lower Upper
164 100
162 104.2 86.1 129.1
160 46.2 38.3 57.5

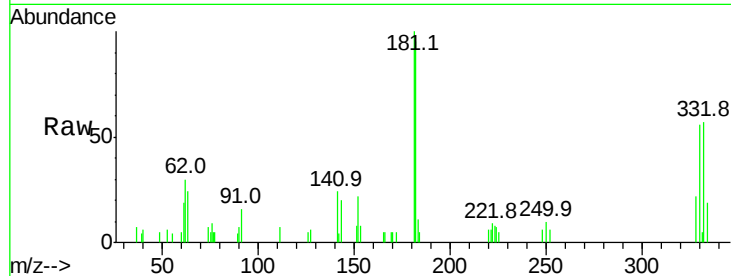




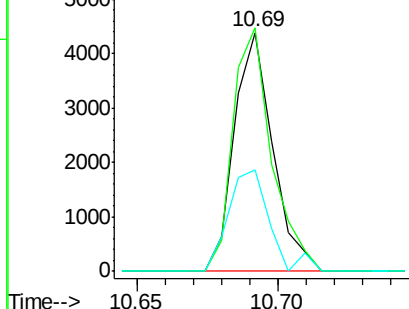
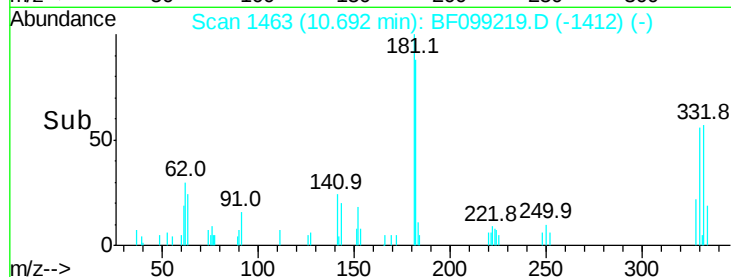
#41
 2,4,6-Tribromophenol
 Concen: 3.417 ng
 RT: 10.69 min Scan# 1463
 Delta R.T. -0.00 min
 Lab File: BF099219.D
 Acq: 8 Oct 2017 4:19

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 4146
 Ion Ratio Lower Upper
 330 100
 332 102.5 77.0 115.6
 141 45.6 29.9 44.9#

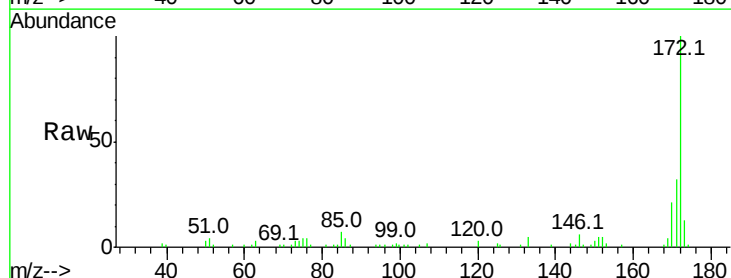


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

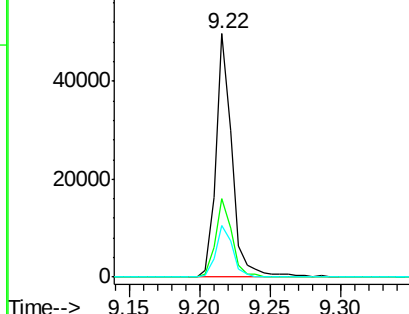
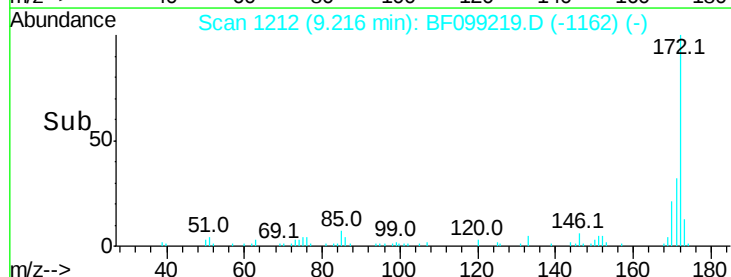


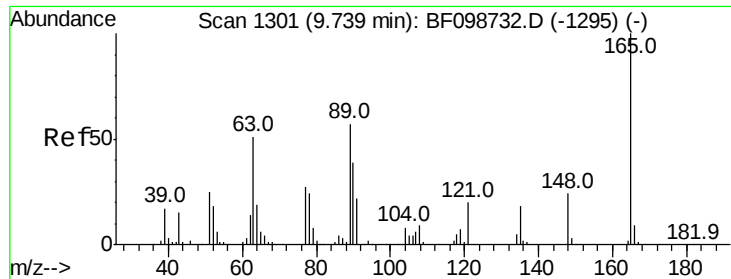
#44
 2-Fluorobiphenyl
 Concen: 4.446 ng
 RT: 9.22 min Scan# 1212
 Delta R.T. -0.01 min
 Lab File: BF099219.D
 Acq: 8 Oct 2017 4:19

Tgt Ion:172 Resp: 39496
 Ion Ratio Lower Upper
 172 100
 171 32.1 29.7 44.5
 170 21.4 19.6 29.4



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

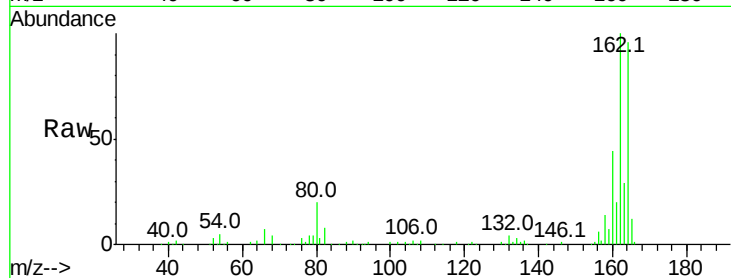




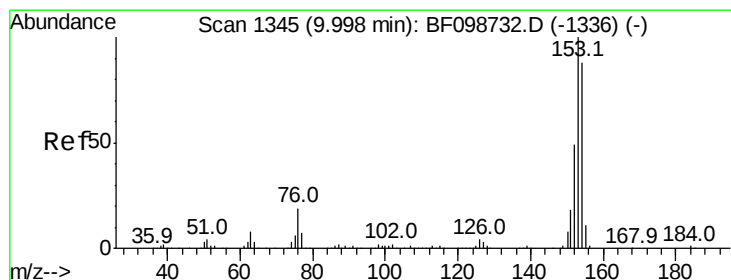
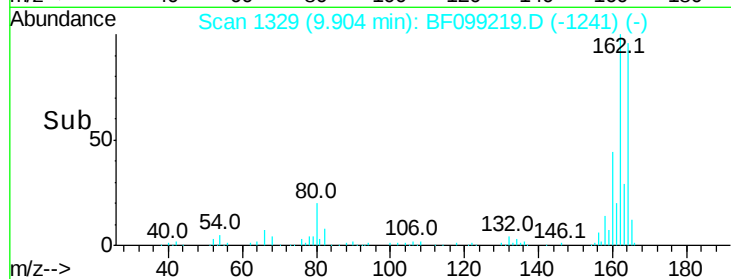
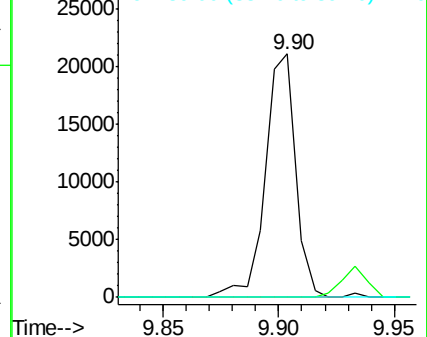
#50
 2,6-Dinitrotoluene
 Concen: 7.899 ng
 RT: 9.90 min Scan# 1329
 Delta R.T. 0.22 min
 Lab File: BF099219.D
 Acq: 8 Oct 2017 4:19

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	44.7	67.1#
89	0.0	44.0	66.0#

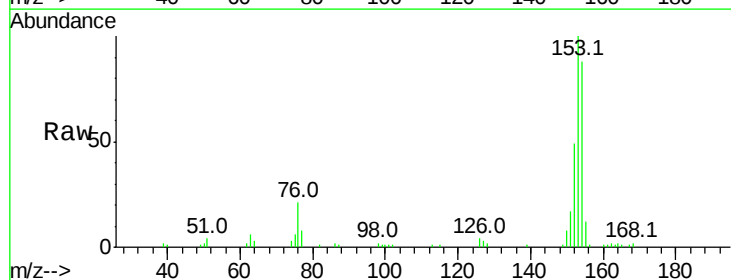


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

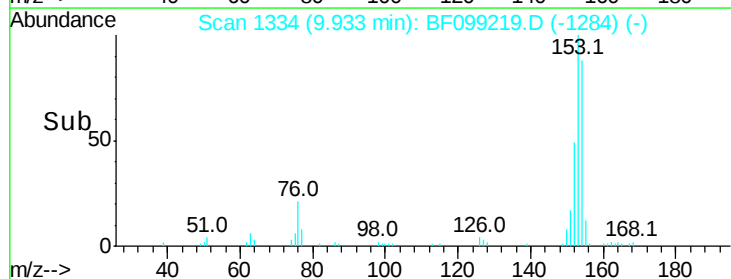
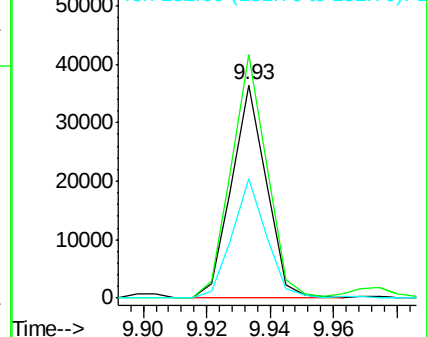


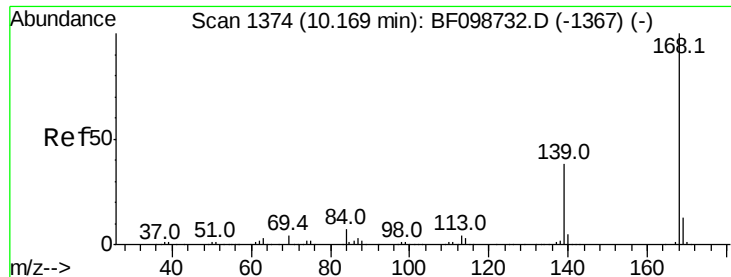
#51
 Acenaphthene
 Concen: 2.987 ng
 RT: 9.93 min Scan# 1334
 Delta R.T. -0.01 min
 Lab File: BF099219.D
 Acq: 8 Oct 2017 4:19

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.2	91.2	136.8
152	55.8	43.8	65.8



Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 152.00 (151.70 to 152.70): E





#54

Dibenzofuran

Concen: 2.892 ng

RT: 10.10 min Scan# 1363

Delta R.T. -0.01 min

Lab File: BF099219.D

Acq: 8 Oct 2017 4:19

Instrument :

BNA_F

ClientSampleId :

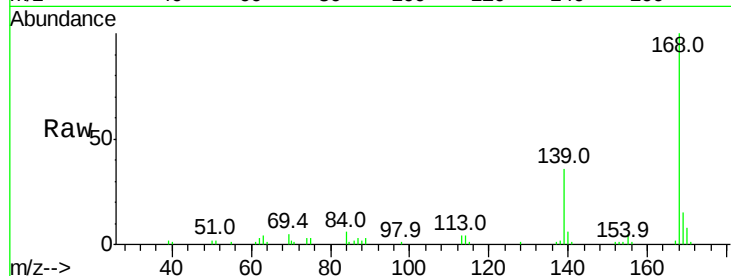
Tot Ion:168 Resp: 35730

Ion Ratio Lower Upper

168 100

139 36.0 30.1 45.1

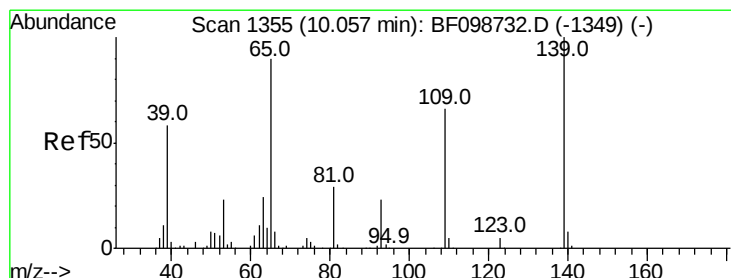
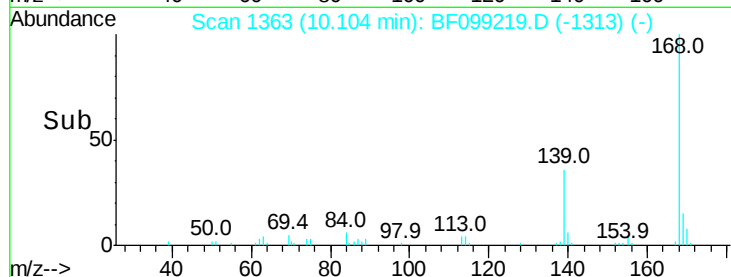
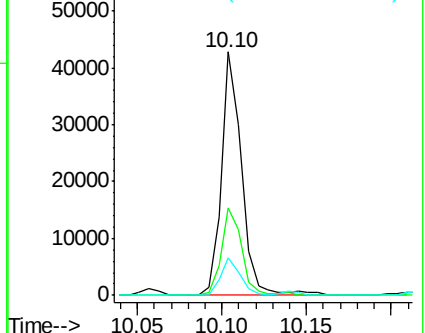
169 15.3 10.9 16.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 5.456 ng

RT: 10.10 min Scan# 1363

Delta R.T. 0.09 min

Lab File: BF099219.D

Acq: 8 Oct 2017 4:19

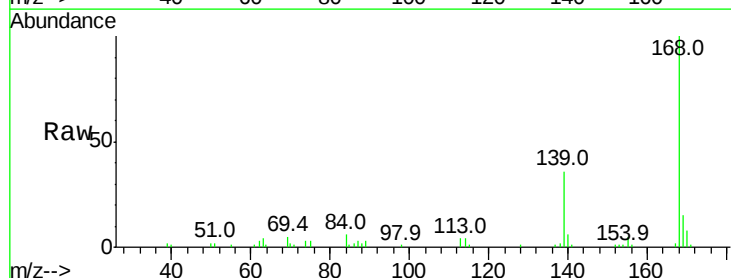
Tgt Ion:139 Resp: 13108

Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

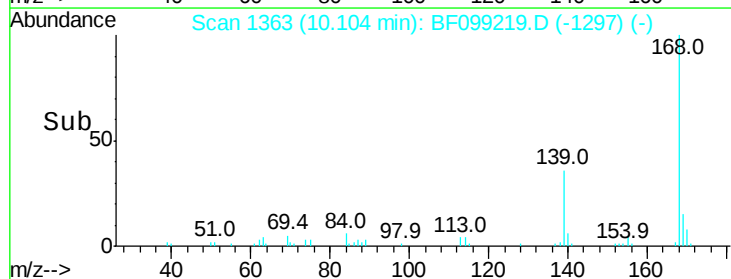
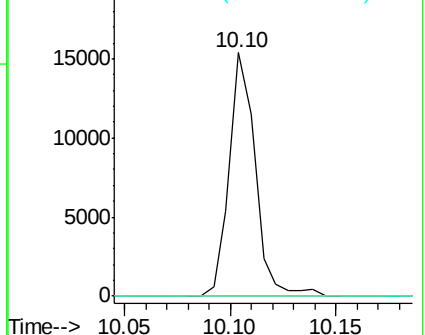
65 0.0 72.6 112.6#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

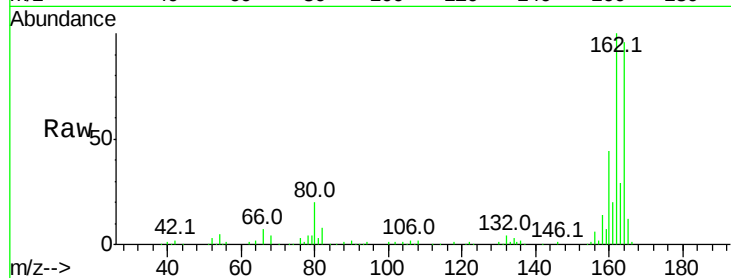




#56
2,4-Dinitrotoluene
Concen: 6.087 ng
RT: 9.90 min Scan# 1329
Delta R.T. -0.19 min
Lab File: BF099219.D
Acq: 8 Oct 2017 4:19

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	36.4	54.6#
89	0.0	57.8	86.6#
182	0.0	1.6	2.4#

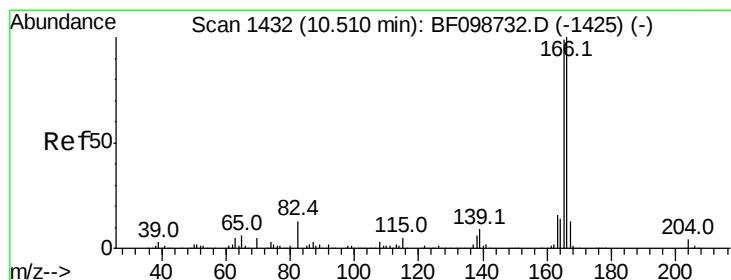
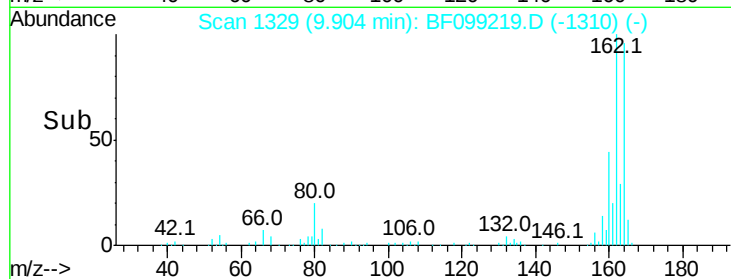
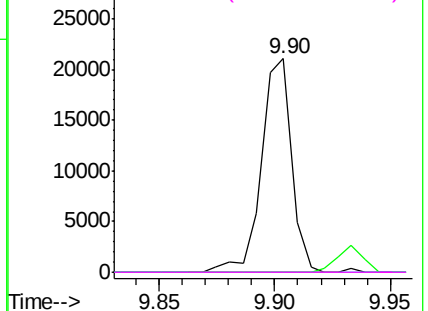


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

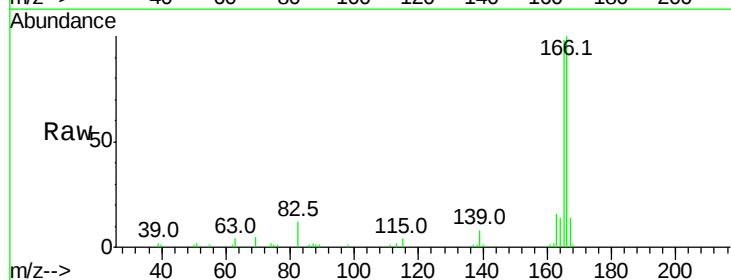
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57
Fluorene
Concen: 3.683 ng
RT: 10.45 min Scan# 1422
Delta R.T. -0.00 min
Lab File: BF099219.D
Acq: 8 Oct 2017 4:19

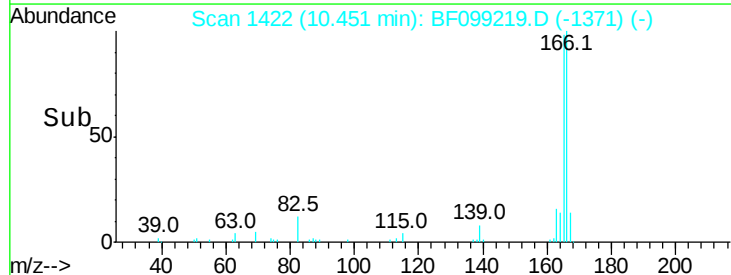
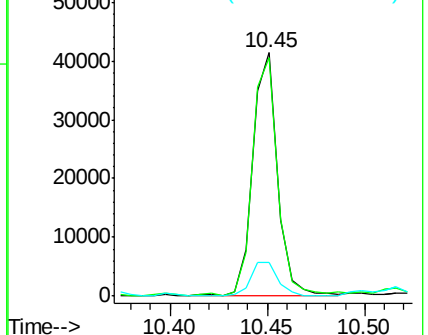
Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.8	119.8
167	13.8	10.6	16.0

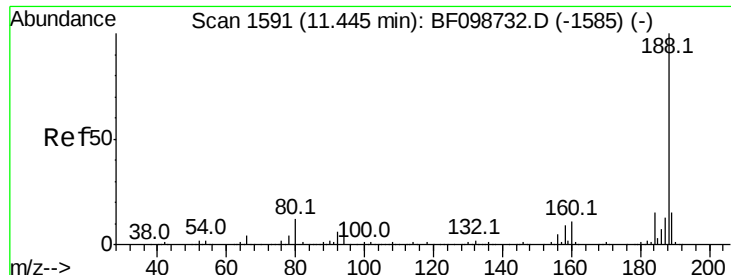


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.39 min Scan# 1582

Delta R.T. 0.01 min

Lab File: BF099219.D

Acq: 8 Oct 2017 4:19

Instrument :

BNA_F

ClientSampleId :

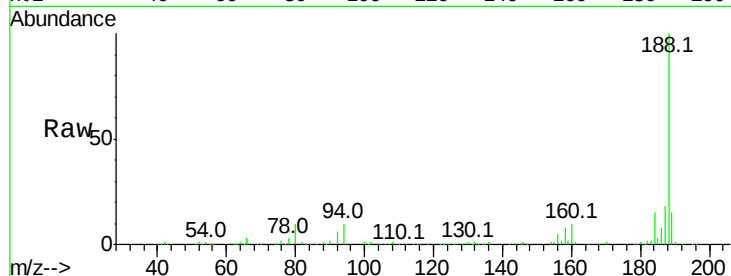
Tot Ion:188 Resp: 232360

Ion Ratio Lower Upper

188 100

94 9.9 8.5 12.7

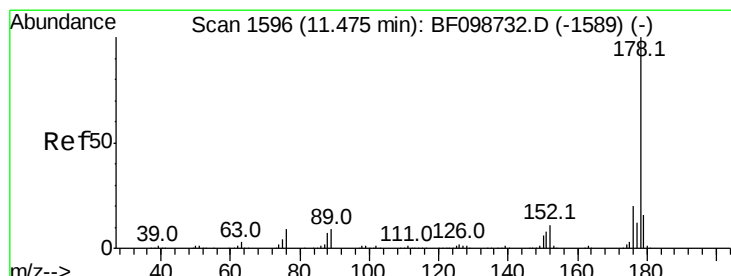
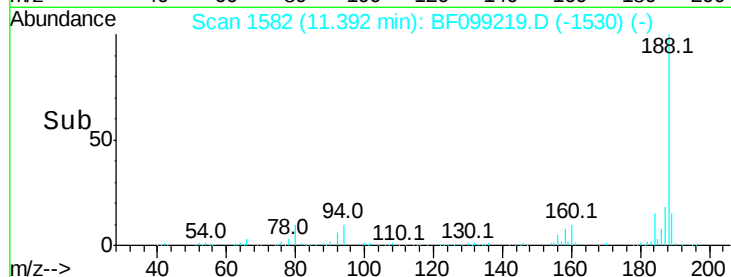
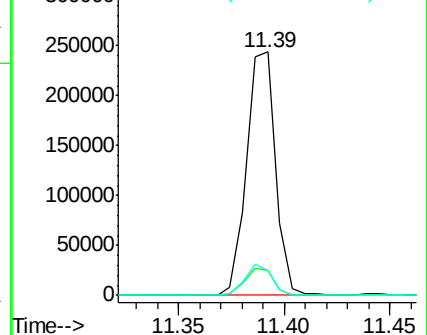
80 10.3 9.2 13.8



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: 28.431 ng

RT: 11.42 min Scan# 1586

Delta R.T. -0.00 min

Lab File: BF099219.D

Acq: 8 Oct 2017 4:19

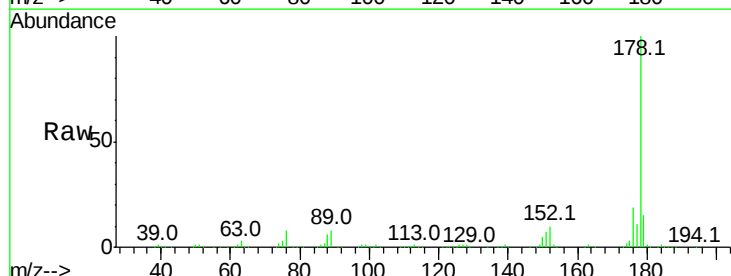
Tgt Ion:178 Resp: 353616

Ion Ratio Lower Upper

178 100

176 18.7 15.8 23.8

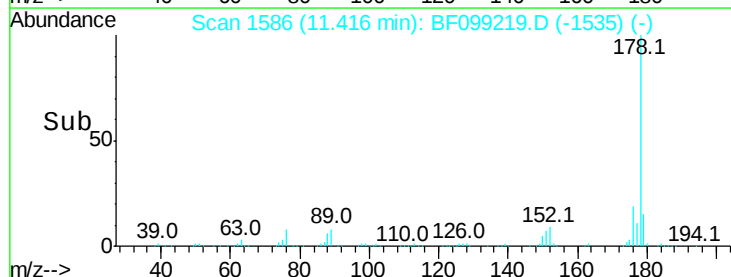
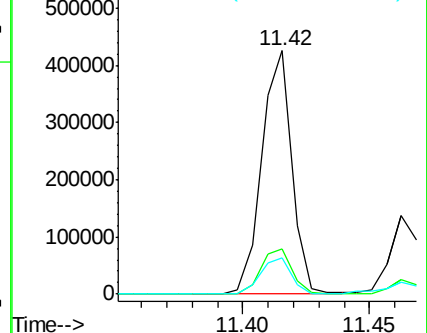
179 15.1 13.0 19.6

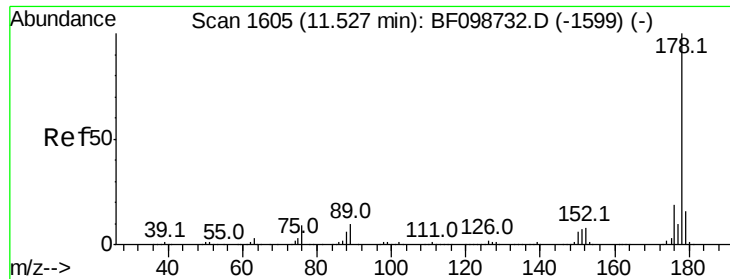


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 8.459 ng

RT: 11.46 min Scan# 1594

Delta R.T. -0.01 min

Lab File: BF099219.D

Acq: 8 Oct 2017 4:19

Instrument :

BNA_F

ClientSampleId :

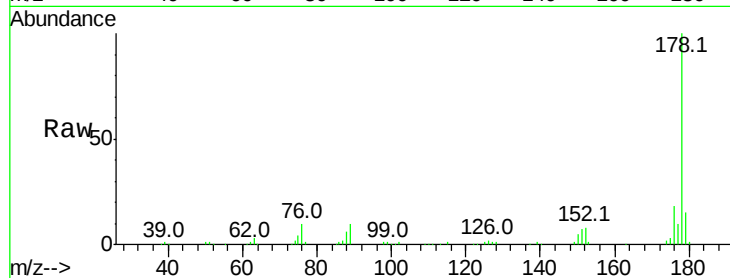
Tot Ion:178 Resp: 107646

Ion Ratio Lower Upper

178 100

176 18.0 15.4 23.2

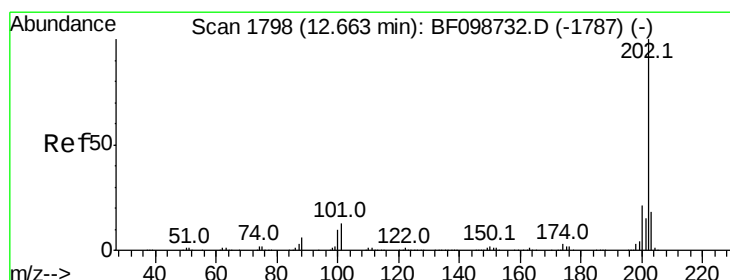
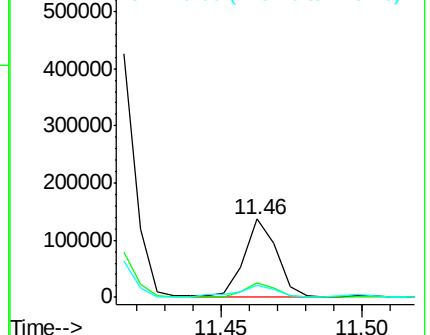
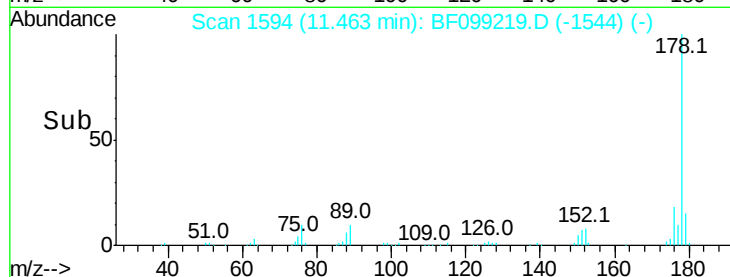
179 14.9 12.6 19.0



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: 28.195 ng

RT: 12.60 min Scan# 1788

Delta R.T. -0.00 min

Lab File: BF099219.D

Acq: 8 Oct 2017 4:19

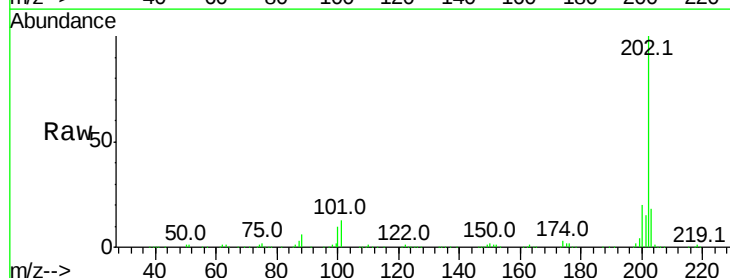
Tgt Ion:202 Resp: 355102

Ion Ratio Lower Upper

202 100

101 13.3 0.0 34.1

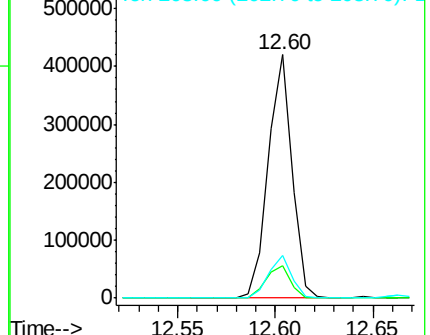
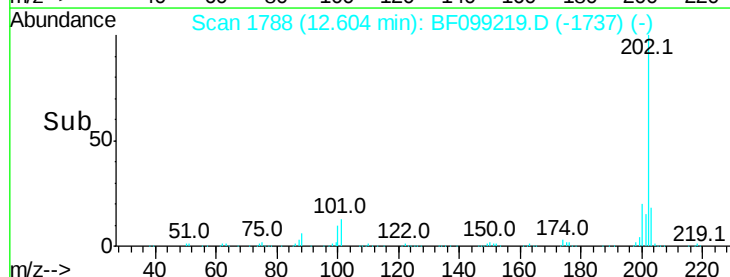
203 17.6 0.0 38.1

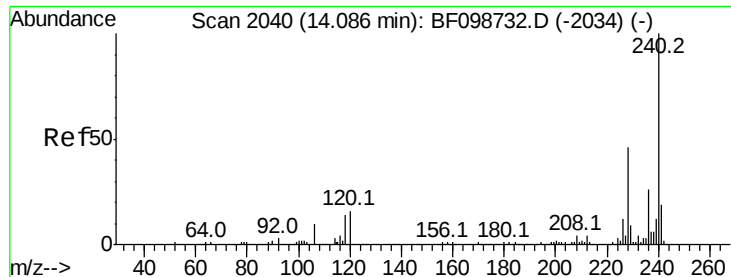


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.03 min Scan# 2030

Delta R.T. -0.00 min

Lab File: BF099219.D

Acq: 8 Oct 2017 4:19

Instrument :

BNA_F

ClientSampled :

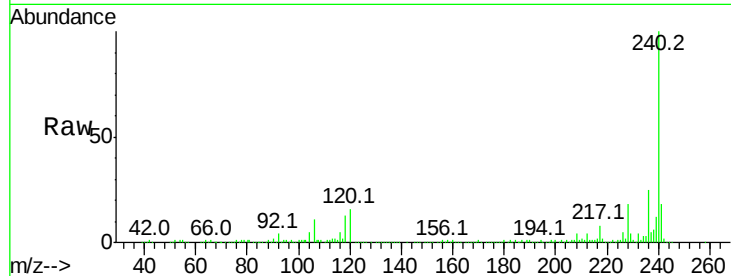
Tot Ion:240 Resp: 195735

Ion Ratio Lower Upper

240 100

120 15.7 9.5 14.3#

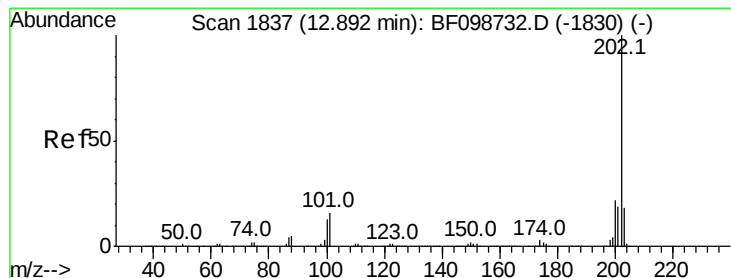
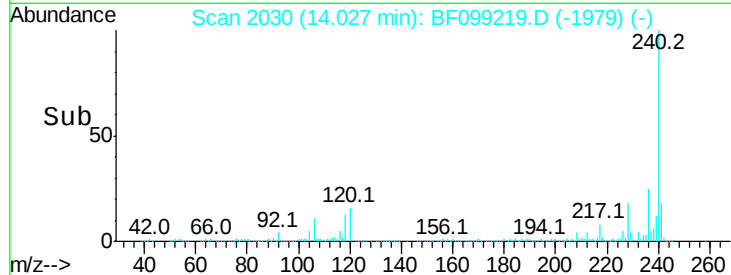
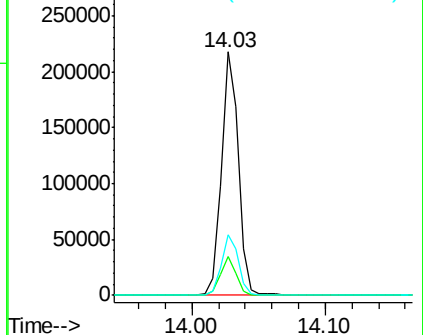
236 24.8 20.7 31.1



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: 20.390 ng

RT: 12.83 min Scan# 1827

Delta R.T. -0.00 min

Lab File: BF099219.D

Acq: 8 Oct 2017 4:19

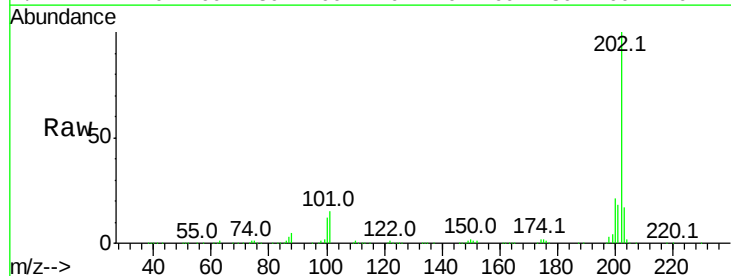
Tgt Ion:202 Resp: 304334

Ion Ratio Lower Upper

202 100

200 21.1 17.4 26.2

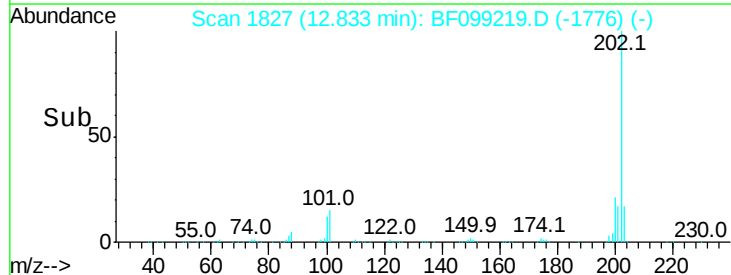
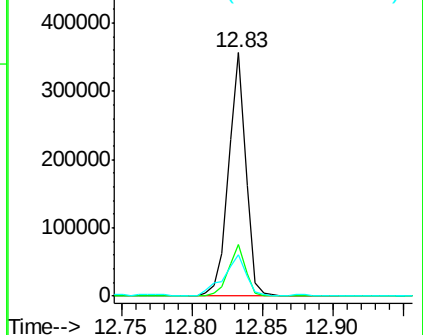
203 17.2 14.3 21.5

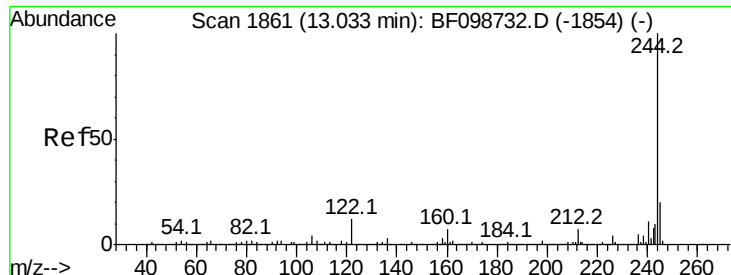


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

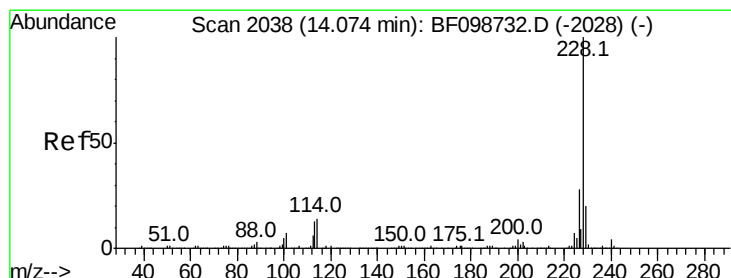
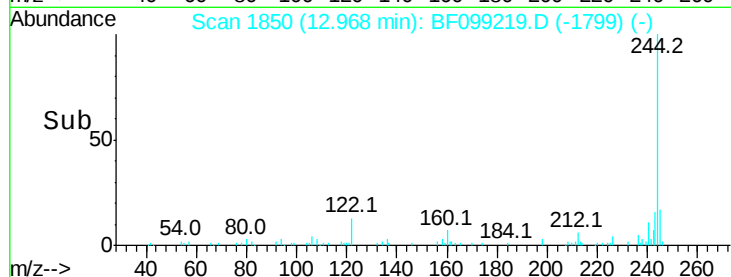
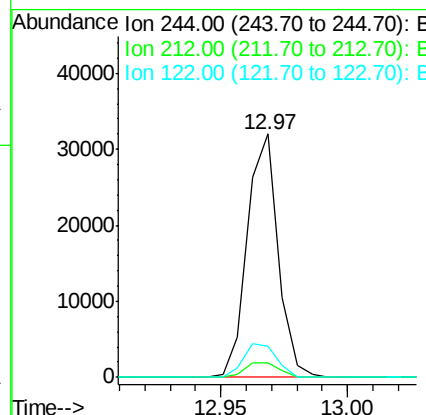
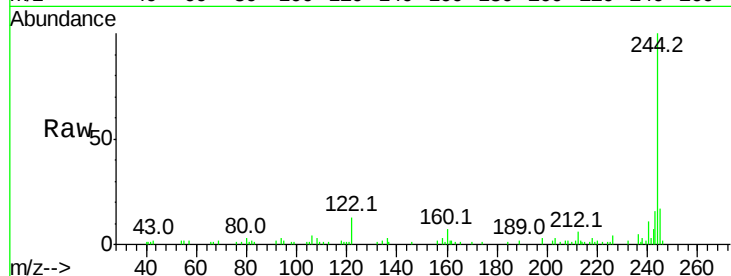




#78
 Terphenyl-d14
 Concen: 3.141 ng
 RT: 12.97 min Scan# 1850
 Delta R.T. -0.00 min
 Lab File: BF099219.D
 Acq: 8 Oct 2017 4:19

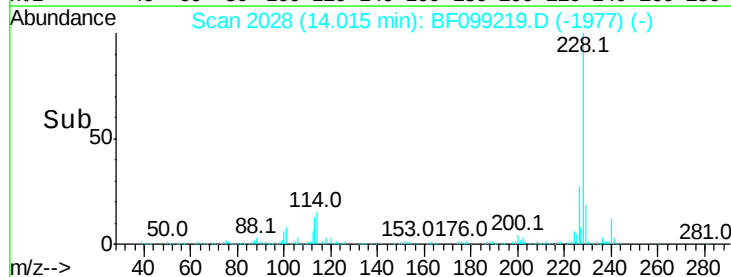
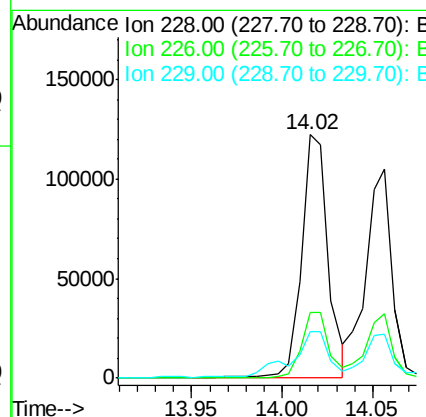
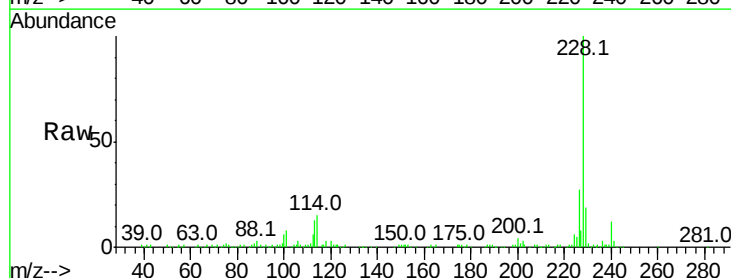
Instrument :
 BNA_F
 ClientSampleId :

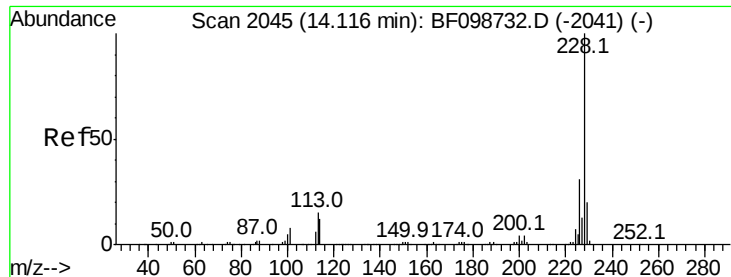
Tot Ion:244 Resp: 27036
 Ion Ratio Lower Upper
 244 100
 212 6.1 5.4 8.0
 122 12.9 11.0 16.4



#80
 Benzo(a)anthracene
 Concen: 10.693 ng
 RT: 14.02 min Scan# 2028
 Delta R.T. -0.00 min
 Lab File: BF099219.D
 Acq: 8 Oct 2017 4:19

Tgt Ion:228 Resp: 126738
 Ion Ratio Lower Upper
 228 100
 226 27.0 22.6 33.8
 229 18.9 15.8 23.6





#82

Chrysene

Concen: 9.468 ng

RT: 14.06 min Scan# 2035

Delta R.T. -0.00 min

Lab File: BF099219.D

Acq: 8 Oct 2017 4:19

Instrument :

BNA_F

ClientSampleId :

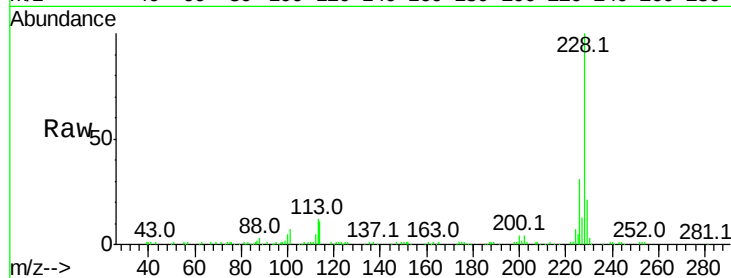
Tot Ion:228 Resp: 106834

Ion Ratio Lower Upper

228 100

226 30.7 25.0 37.6

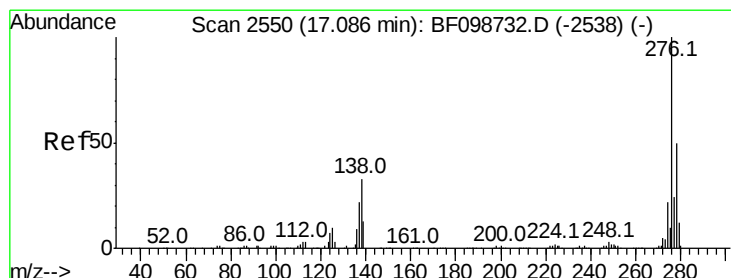
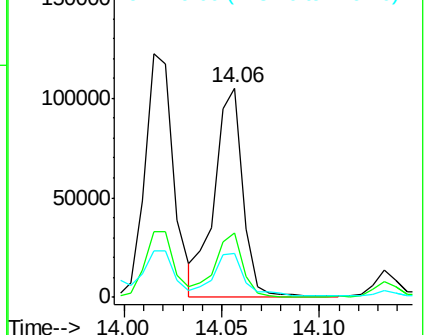
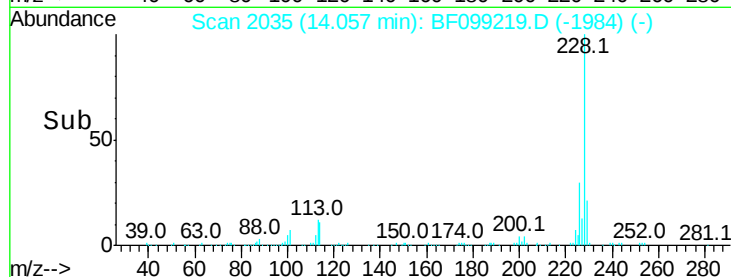
229 21.2 16.2 24.4



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: 3.855 ng

RT: 16.99 min Scan# 2533

Delta R.T. -0.00 min

Lab File: BF099219.D

Acq: 8 Oct 2017 4:19

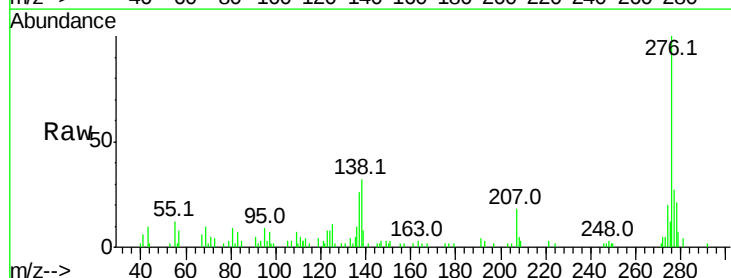
Tgt Ion:276 Resp: 34799

Ion Ratio Lower Upper

276 100

138 32.8 25.0 37.6

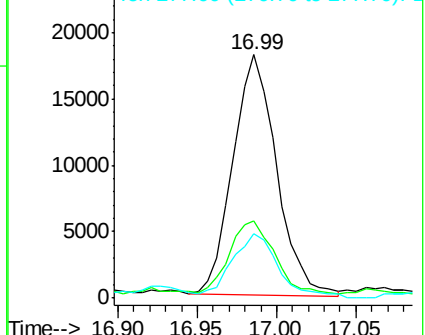
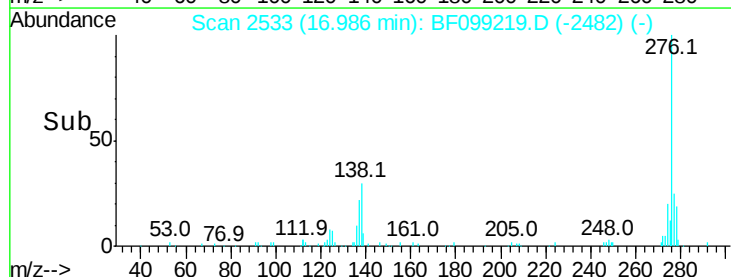
277 28.5 20.1 30.1

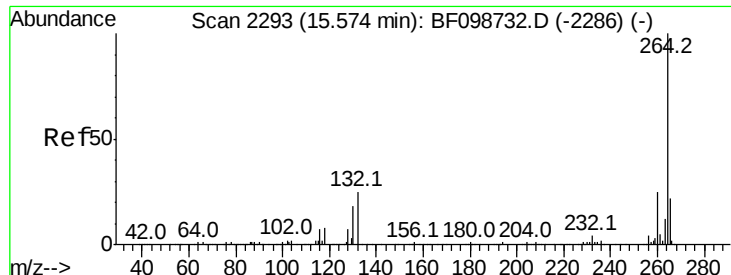


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

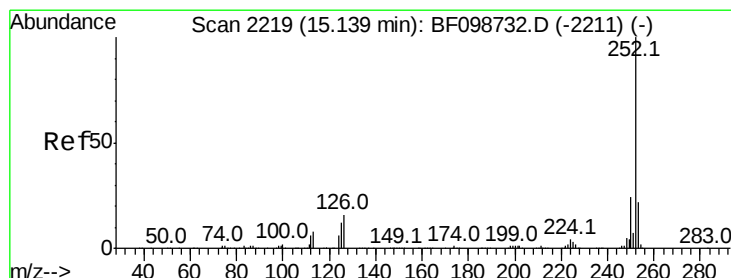
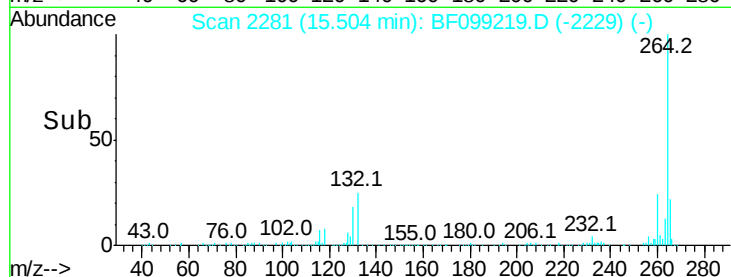
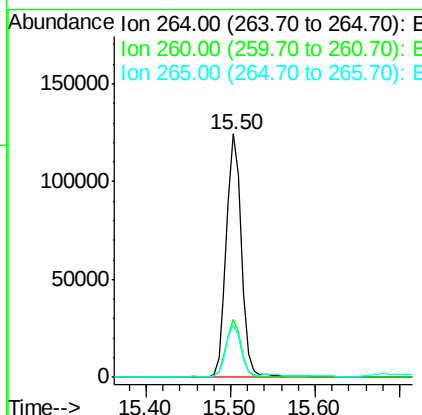
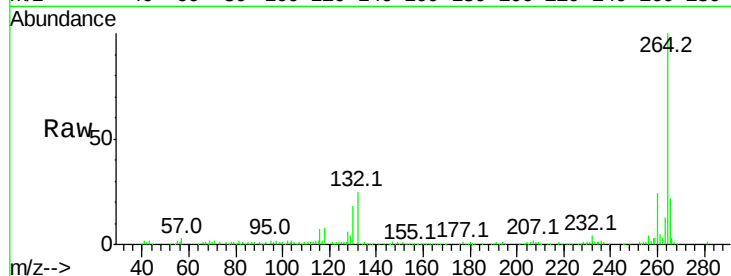




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2281
Delta R.T. 0.01 min
Lab File: BF099219.D
Acq: 8 Oct 2017 4:19

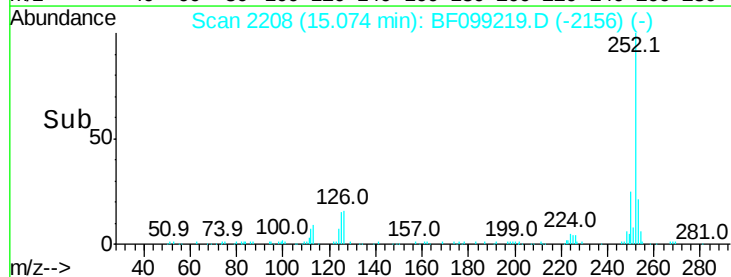
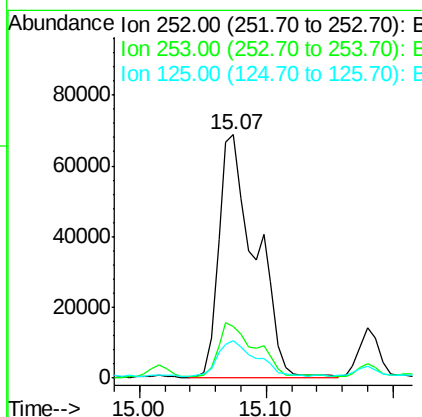
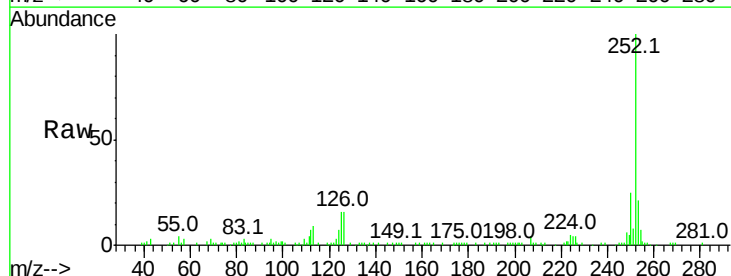
Instrument :
BNA_F
ClientSampleId :

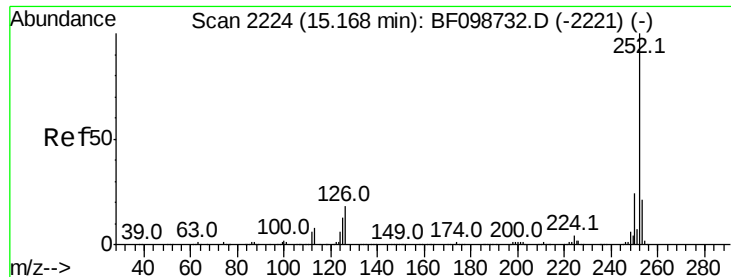
Tot Ion:264 Resp: 154765
Ion Ratio Lower Upper
264 100
260 24.0 19.2 28.8
265 21.7 17.5 26.3



#87
Benzo(b)fluoranthene
Concen: 14.615 ng
RT: 15.07 min Scan# 2208
Delta R.T. 0.01 min
Lab File: BF099219.D
Acq: 8 Oct 2017 4:19

Tgt Ion:252 Resp: 139073
Ion Ratio Lower Upper
252 100
253 21.3 17.0 25.6
125 15.5 9.0 13.6#

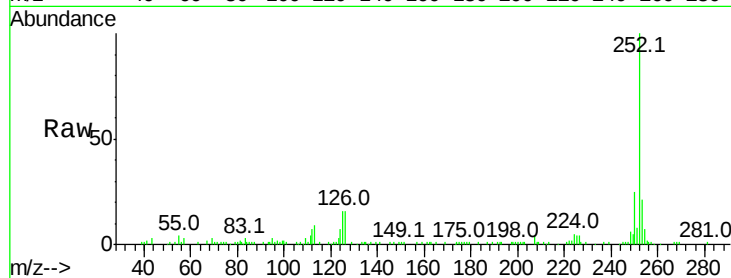




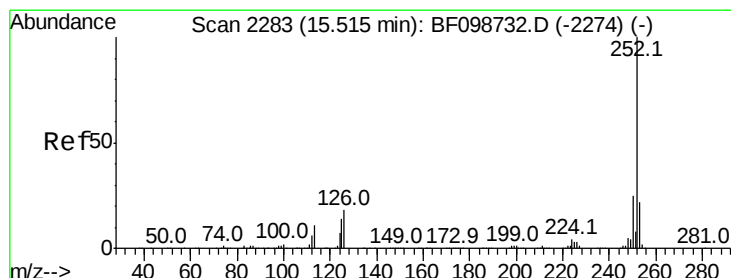
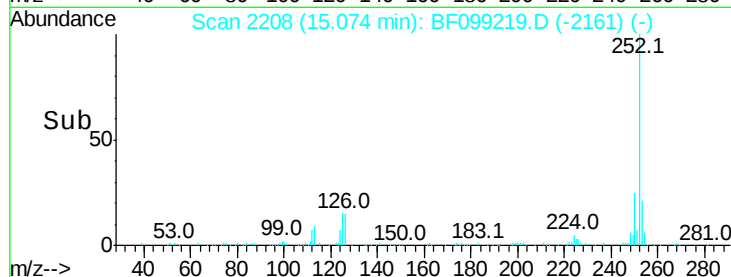
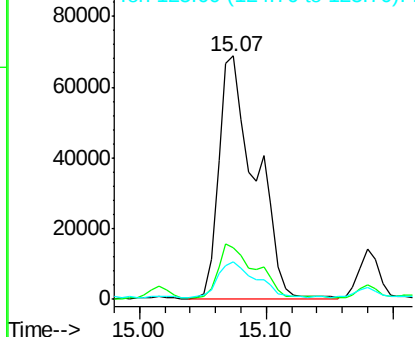
#88
Benzo(k)fluoranthene
Concen: 14.797 ng
RT: 15.07 min Scan# 2208
Delta R.T. -0.02 min
Lab File: BF099219.D
Acq: 8 Oct 2017 4:19

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.3	17.9	26.9
125	15.5	10.2	15.2#

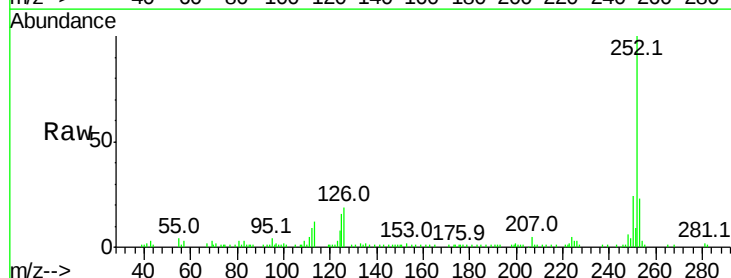


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

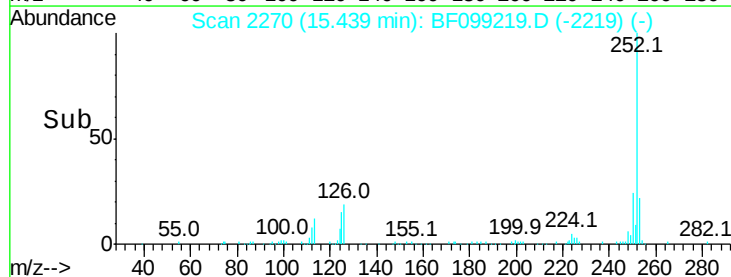
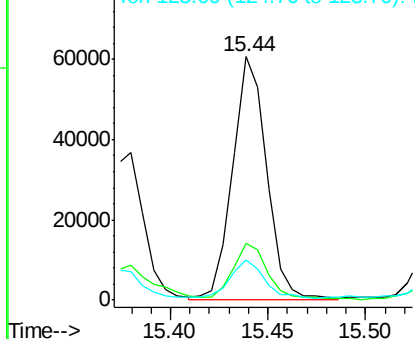


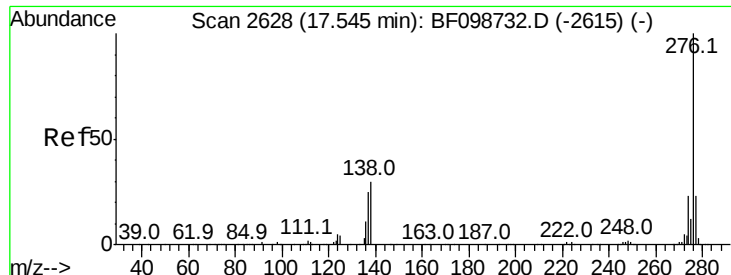
#89
Benzo(a)pyrene
Concen: 8.321 ng
RT: 15.44 min Scan# 2270
Delta R.T. -0.00 min
Lab File: BF099219.D
Acq: 8 Oct 2017 4:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.1	25.7
125	16.4	9.8	14.6#



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: 4.760 ng
 RT: 17.44 min Scan# 2610
 Delta R.T. 0.01 min
 Lab File: BF099219.D
 Acq: 8 Oct 2017 4:19

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:	276	Resp:	32893
Ion Ratio	Lower	Upper	
276	100		
277	22.1	17.9	26.9
138	33.6	21.8	32.8

