

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091818\
 Data File : BF109105.D
 Acq On : 18 Sep 2018 19:35
 Operator : JU/SJ
 Sample : J4951-01 2X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 19 04:03:07 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 14 13:26:52 2018
 Response via : Initial Calibration

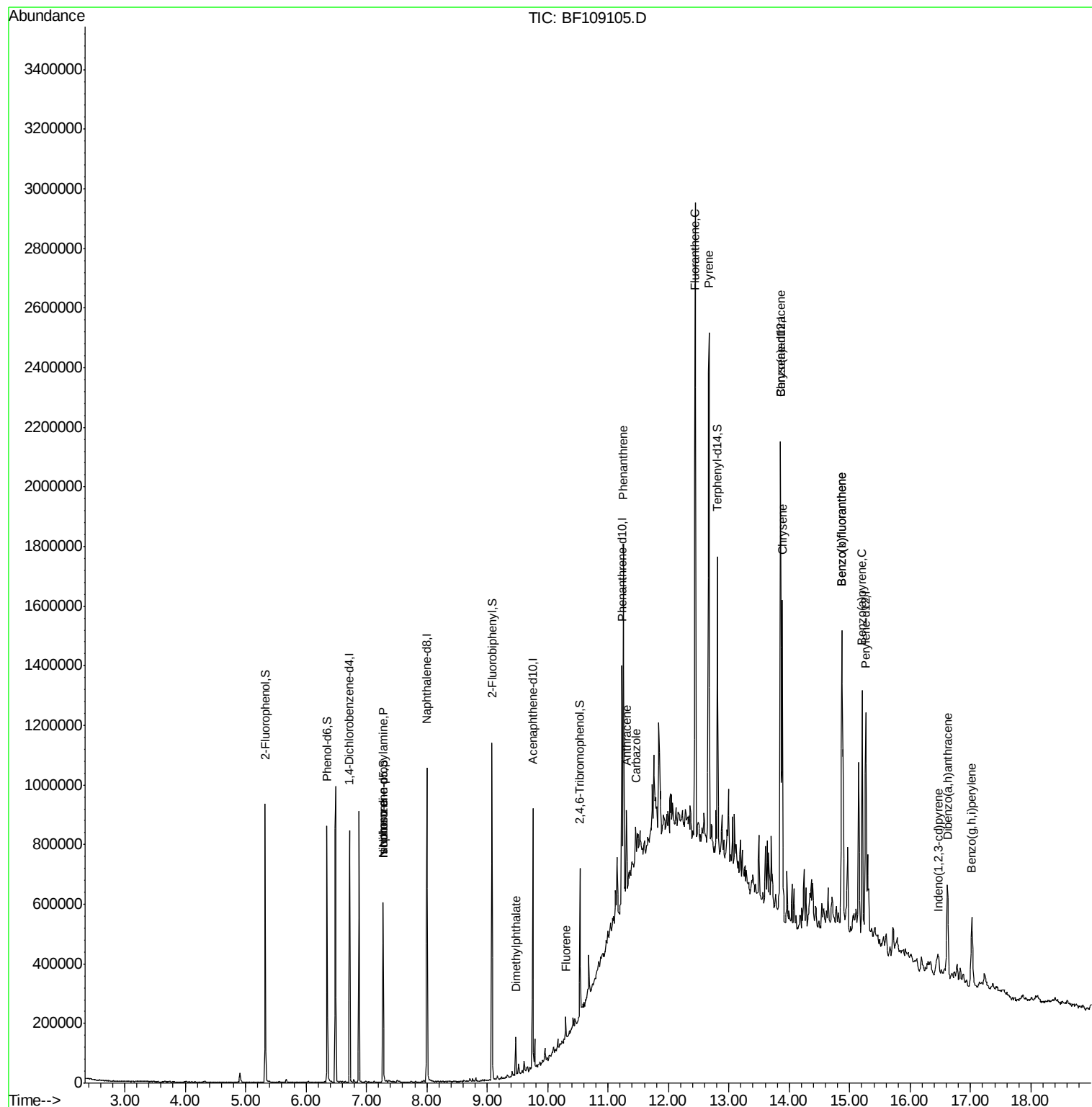
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	122357	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	419524	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	168339	20.00	ng	0.00
63) Phenanthrene-d10	11.23	188	295345	20.00	ng	0.00
75) Chrysene-d12	13.86	240	330605	20.00	ng	0.00
86) Perylene-d12	15.27	264	326940	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	242703	32.94	ng	0.00
7) Phenol-d6	6.35	99	291706	30.71	ng	0.00
23) Nitrobenzene-d5	7.28	82	177317	23.71	ng	-0.01
41) 2,4,6-Tribromophenol	10.54	330	59930	32.80	ng	0.00
44) 2-Fluorobiphenyl	9.08	172	312108	29.05	ng	0.00
78) Terphenyl-d14	12.81	244	303795	21.78	ng	0.00
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.28	70	23440	3.733	ng	# 77
25) Isophorone	7.28	82	177315	13.791	ng	# 64
49) Dimethylphthalate	9.47	163	49627	4.125	ng	# 99
57) Fluorene	10.30	166	20706	2.123	ng	# 93
70) Phenanthrene	11.25	178	406197	28.057	ng	100
71) Anthracene	11.31	178	110166	7.506	ng	98
72) Carbazole	11.46	167	29874	2.056	ng	# 86
74) Fluoranthene	12.44	202	866677	56.704	ng	98
77) Pyrene	12.67	202	792684	32.279	ng	99
80) Benzo(a)anthracene	13.85	228	477729	23.867	ng	97
82) Chrysene	13.89	228	437193	21.831	ng	98
85) Indeno(1,2,3-cd)pyrene	16.47	276	36634	2.288	ng	92
87) Benzo(b)fluoranthene	14.87	252	770772	42.615	ng	97
88) Benzo(k)fluoranthene	14.87	252	770772	45.625	ng	99
89) Benzo(a)pyrene	15.21	252	376371	23.432	ng	98
90) Dibenzo(a,h)anthracene	16.62	278	50365	3.732	ng	92
91) Benzo(g,h,i)perylene	17.02	276	180016	13.343	ng	# 91

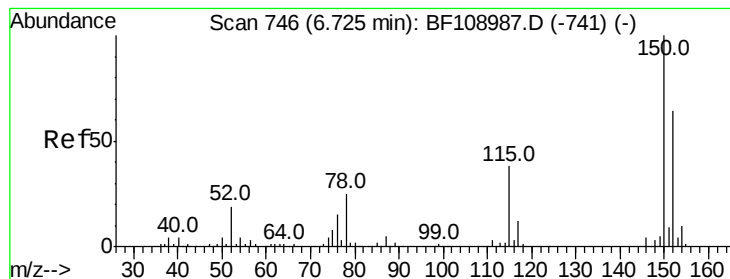
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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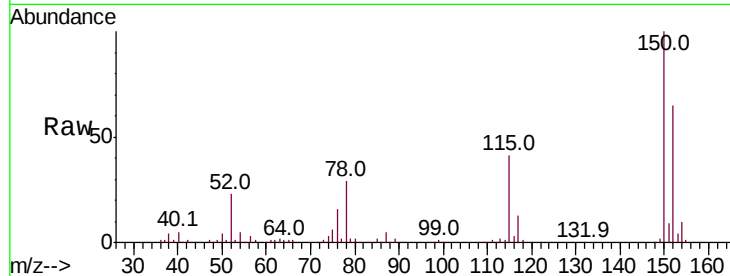


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 745
Delta R.T. -0.01 min
Lab File: BF109105.D
Acq: 18 Sep 2018 19:35

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.0	124.6	186.8
115	62.8	50.1	75.1

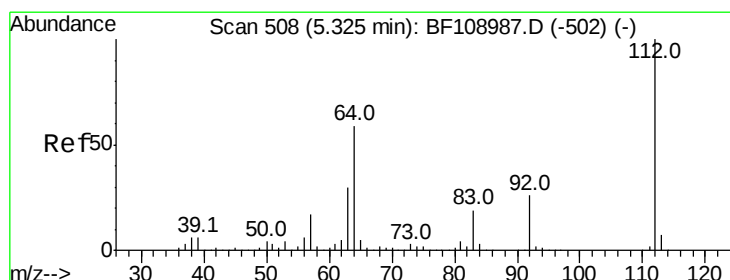
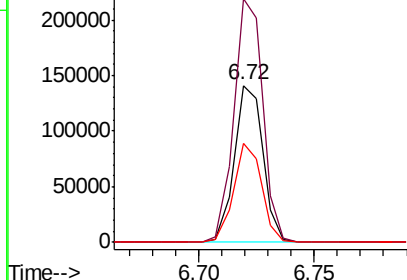
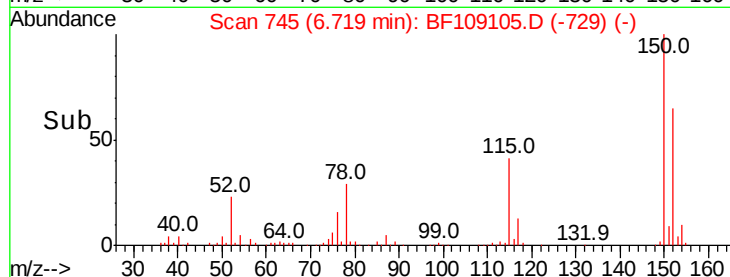


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

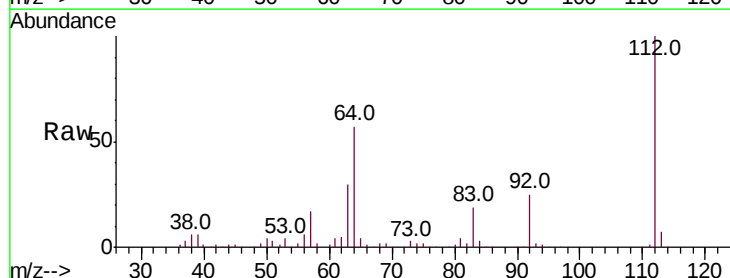
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 32.945 ng
RT: 5.32 min Scan# 508
Delta R.T. 0.00 min
Lab File: BF109105.D
Acq: 18 Sep 2018 19:35

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.5	47.9	71.9
63	30.1	23.7	35.5

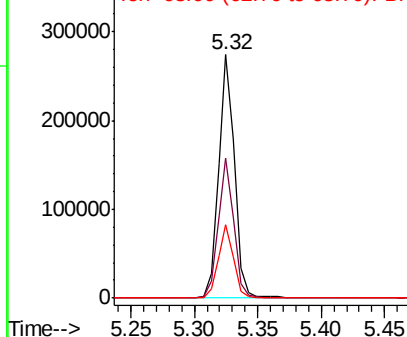
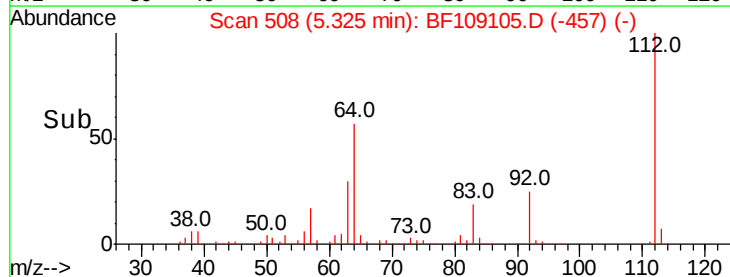


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 30.708 ng

RT: 6.35 min Scan# 683

Delta R.T. -0.01 min

Lab File: BF109105.D

Acq: 18 Sep 2018 19:35

Instrument :

BNA_F

ClientSampleId :

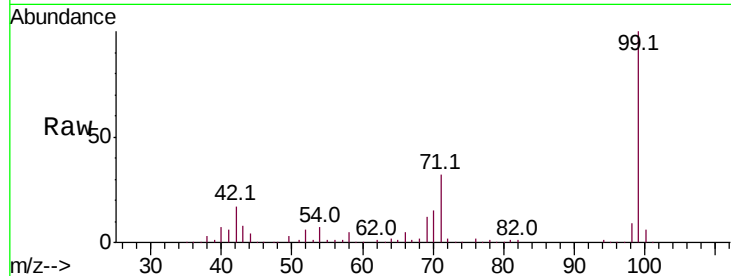
Tot Ion: 99 Resp: 291706

Ion Ratio Lower Upper

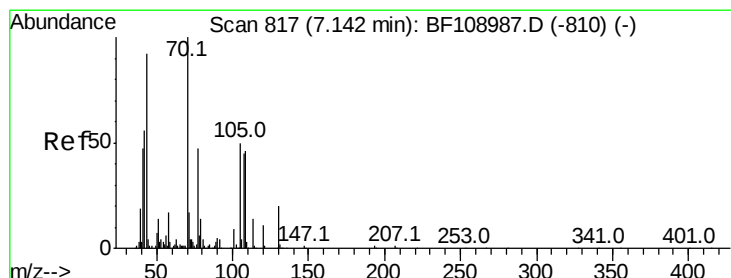
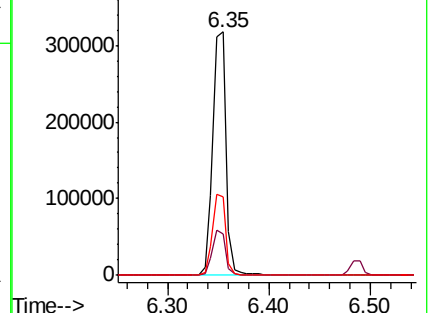
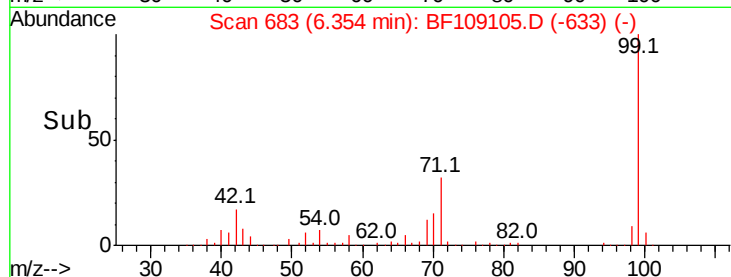
99 100

42 16.9 14.5 21.7

71 32.5 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 3.733 ng

RT: 7.28 min Scan# 840

Delta R.T. 0.14 min

Lab File: BF109105.D

Acq: 18 Sep 2018 19:35

Tgt Ion: 70 Resp: 23440

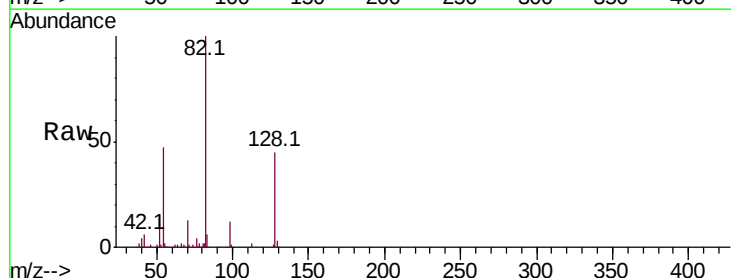
Ion Ratio Lower Upper

70 100

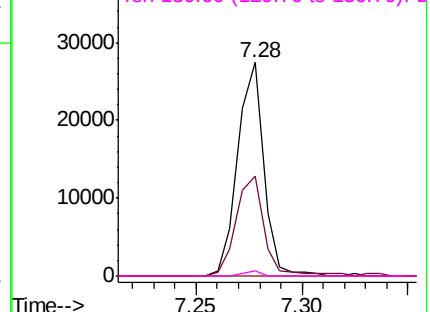
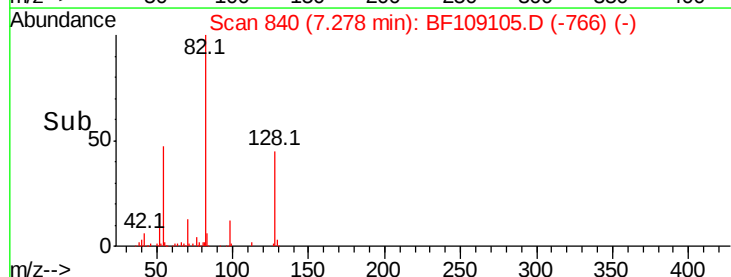
42 46.8 47.5 71.3#

101 0.0 7.4 11.2#

130 2.5 16.6 25.0#



Abundance Ion 70.00 (69.70 to 70.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 101.00 (100.70 to 101.70): BF1
Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.00 min Scan# 963

Delta R.T. -0.01 min

Lab File: BF109105.D

Acq: 18 Sep 2018 19:35

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 419524

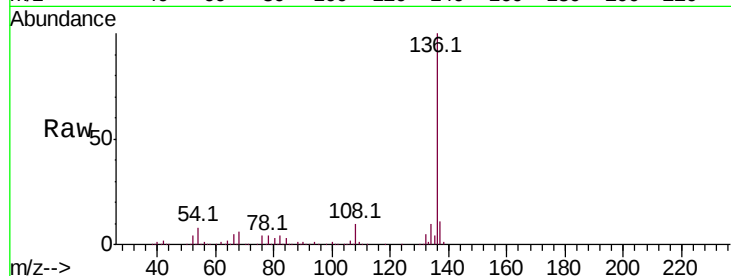
Ion Ratio Lower Upper

136 100

137 11.2 8.9 13.3

54 7.7 6.6 9.8

68 6.0 5.0 7.4

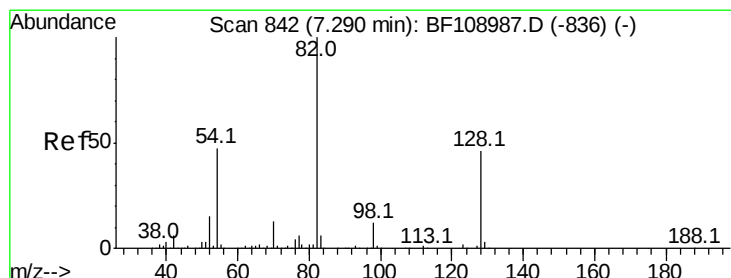
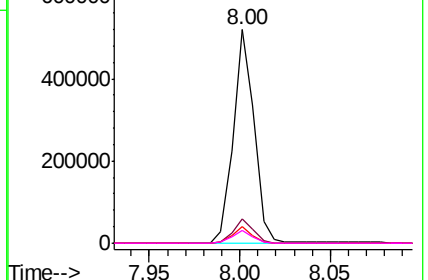
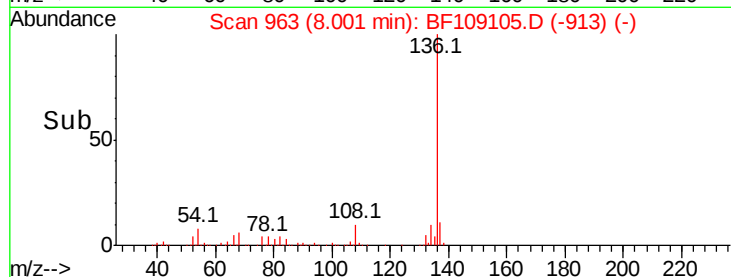


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 23.706 ng

RT: 7.28 min Scan# 840

Delta R.T. -0.01 min

Lab File: BF109105.D

Acq: 18 Sep 2018 19:35

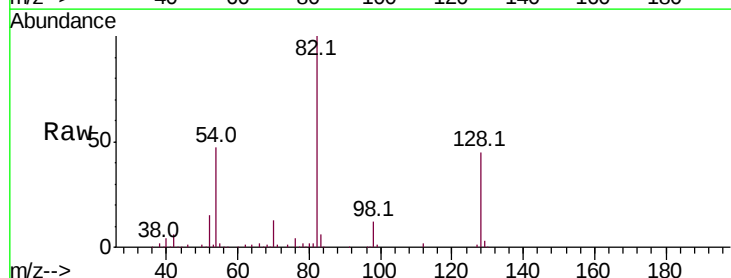
Tgt Ion: 82 Resp: 177317

Ion Ratio Lower Upper

82 100

128 45.5 36.1 54.1

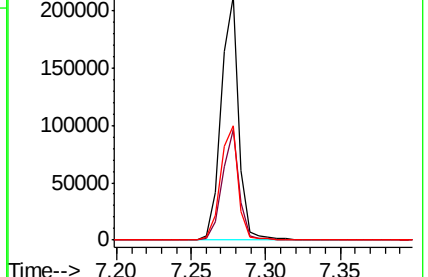
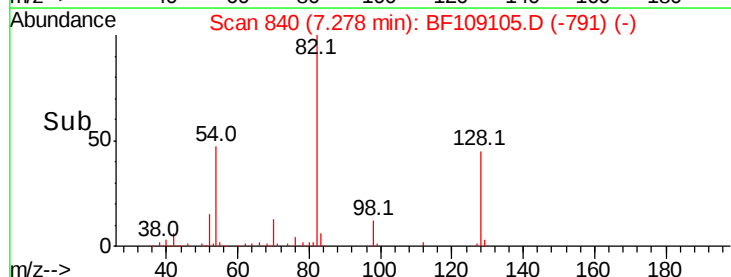
54 47.2 41.4 62.2

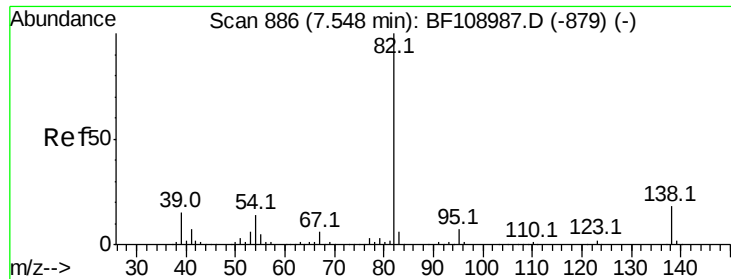


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 13.791 ng

RT: 7.28 min Scan# 840

Delta R.T. -0.27 min

Lab File: BF109105.D

Acq: 18 Sep 2018 19:35

Instrument :

BNA_F

ClientSampleId :

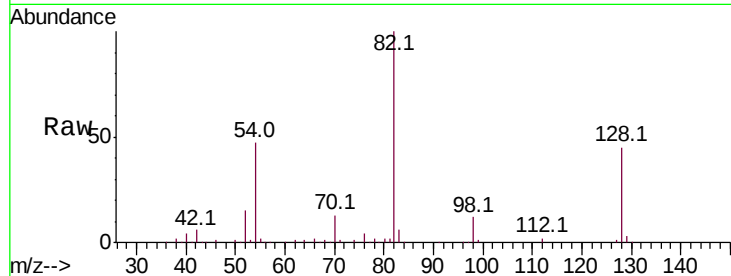
Tot Ion: 82 Resp: 177315

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

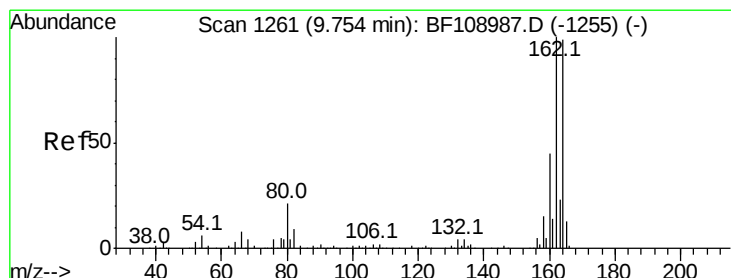
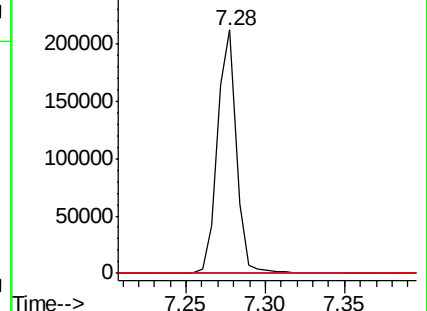
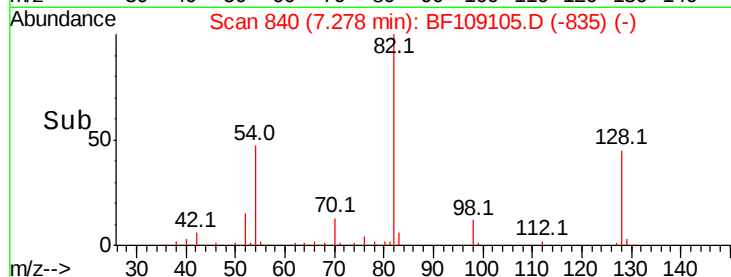
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.75 min Scan# 1261

Delta R.T. 0.00 min

Lab File: BF109105.D

Acq: 18 Sep 2018 19:35

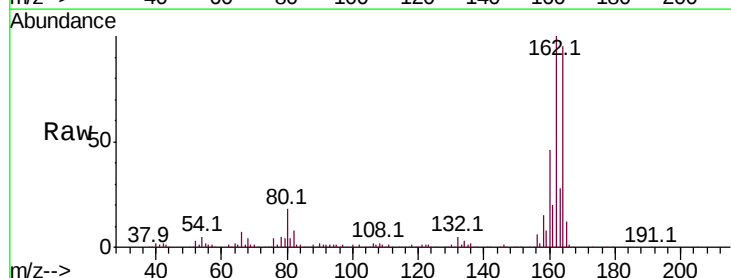
Tgt Ion:164 Resp: 168339

Ion Ratio Lower Upper

164 100

162 104.7 86.1 129.1

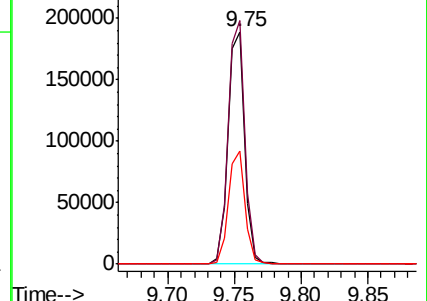
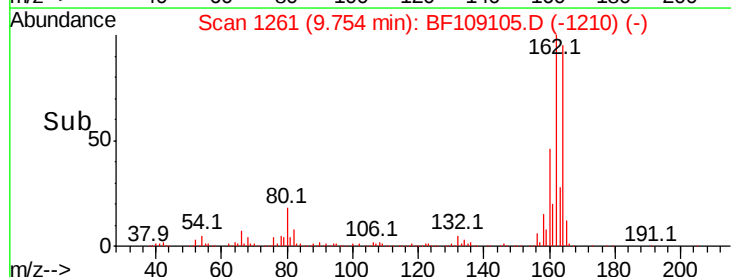
160 48.4 38.3 57.5

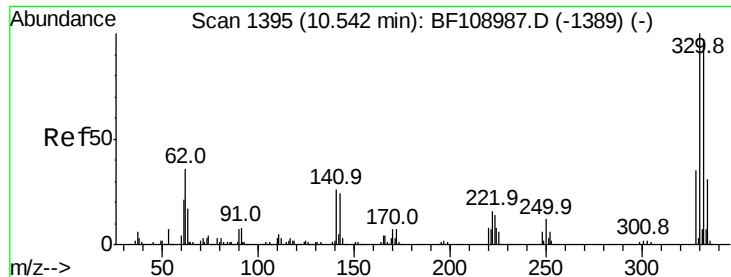


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

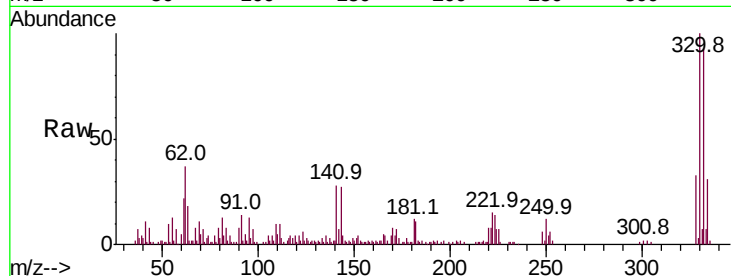




#41
 2,4,6-Tribromophenol
 Concen: 32.804 ng
 RT: 10.54 min Scan# 1394
 Delta R.T. -0.01 min
 Lab File: BF109105.D
 Acq: 18 Sep 2018 19:35

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	93.1	77.0	115.6
141	34.3	29.9	44.9

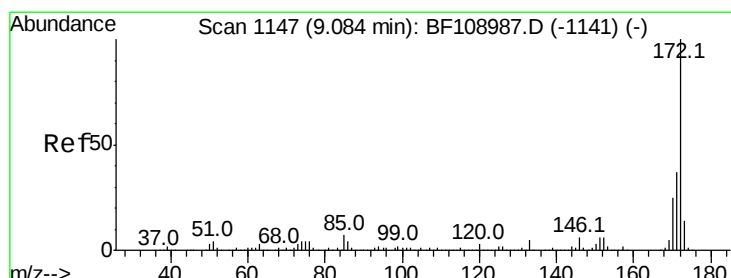
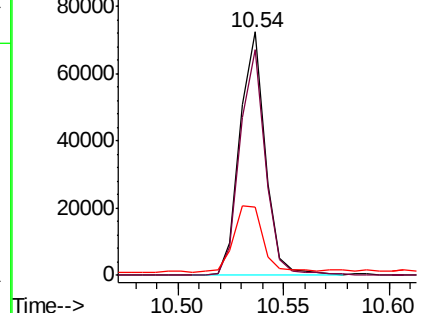
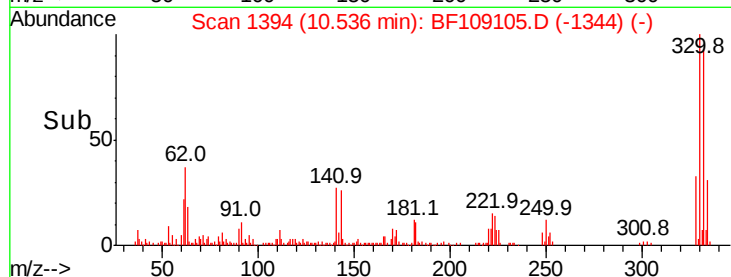


Abundance

Ion 329.80 (329.50 to 330.50): E

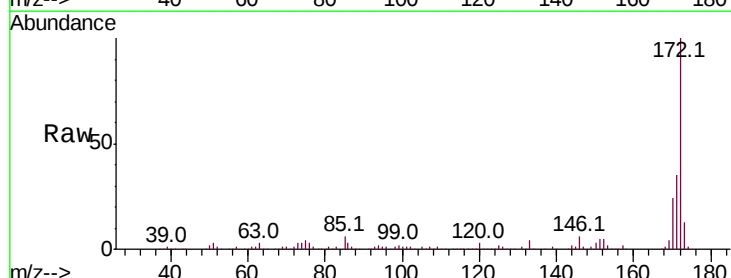
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 29.048 ng
 RT: 9.08 min Scan# 1146
 Delta R.T. -0.01 min
 Lab File: BF109105.D
 Acq: 18 Sep 2018 19:35

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	29.7	44.5
170	23.5	19.6	29.4

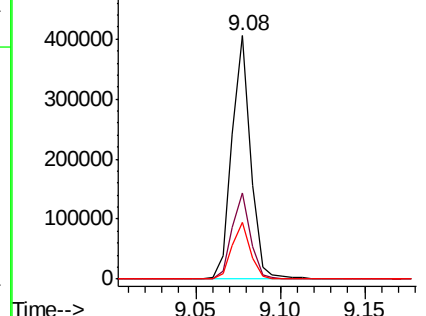
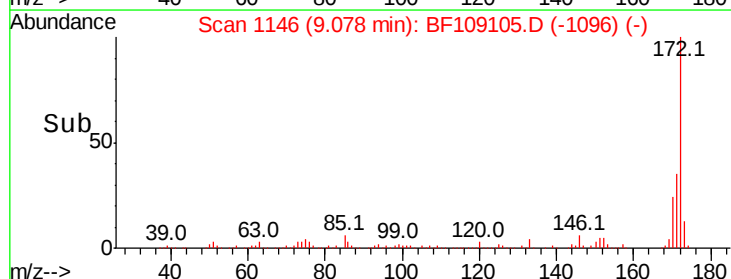


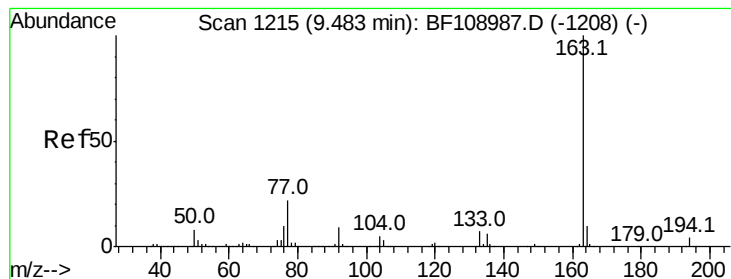
Abundance

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





#49

Dimethylphthalate

Concen: 4.125 ng

RT: 9.47 min Scan# 1213

Delta R.T. -0.01 min

Lab File: BF109105.D

Acq: 18 Sep 2018 19:35

Instrument :

BNA_F

ClientSampleId :

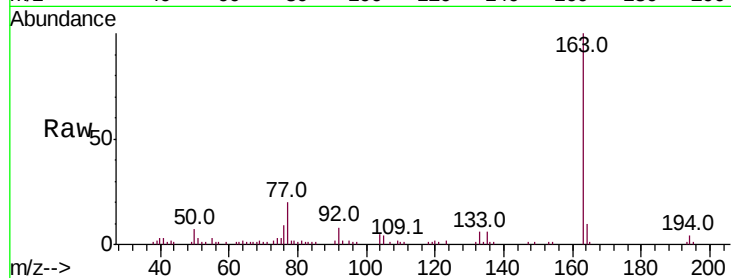
Tot Ion:163 Resp: 49627

Ion Ratio Lower Upper

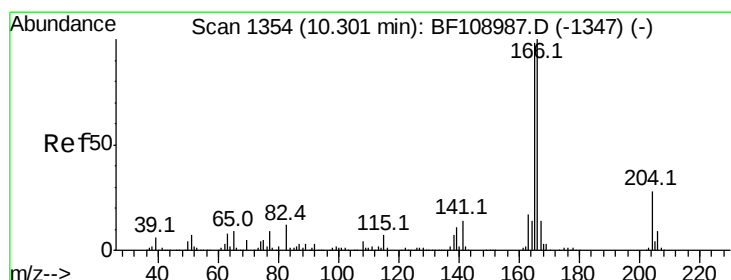
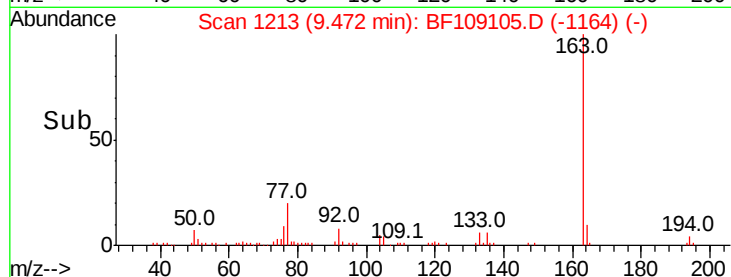
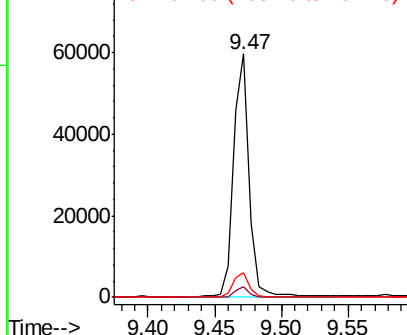
163 100

194 4.2 2.7 4.1#

164 10.2 8.2 12.2



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



#57

Fluorene

Concen: 2.123 ng

RT: 10.30 min Scan# 1353

Delta R.T. -0.01 min

Lab File: BF109105.D

Acq: 18 Sep 2018 19:35

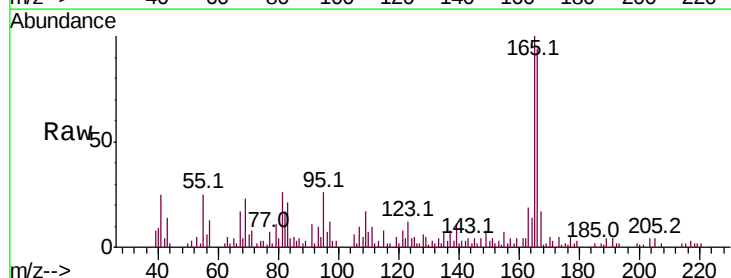
Tgt Ion:166 Resp: 20706

Ion Ratio Lower Upper

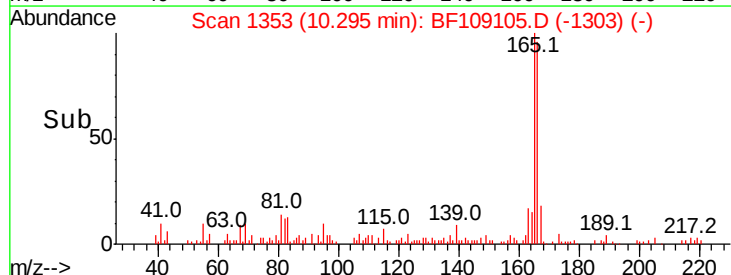
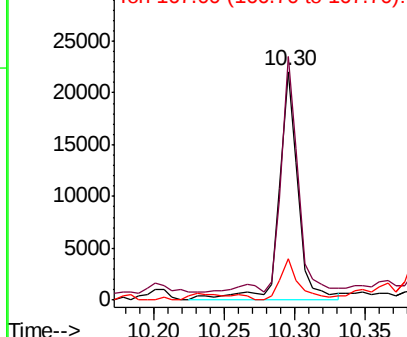
166 100

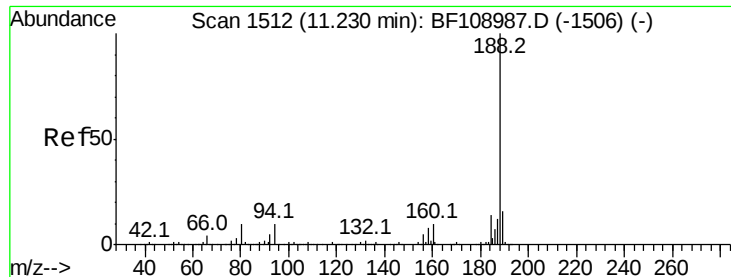
165 106.5 79.8 119.8

167 18.3 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

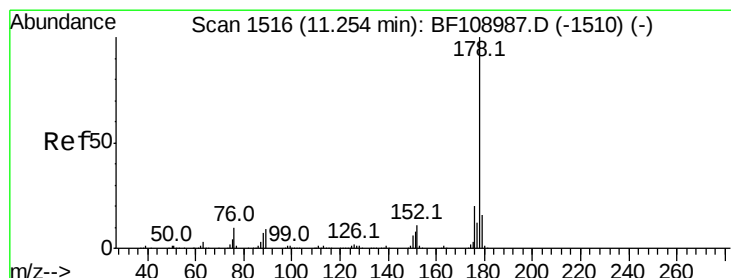
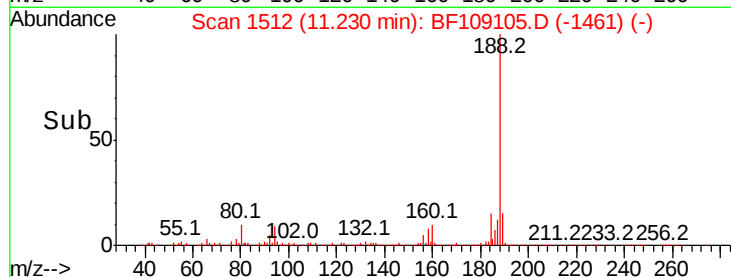
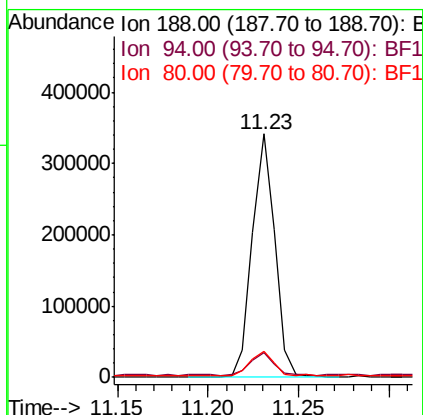
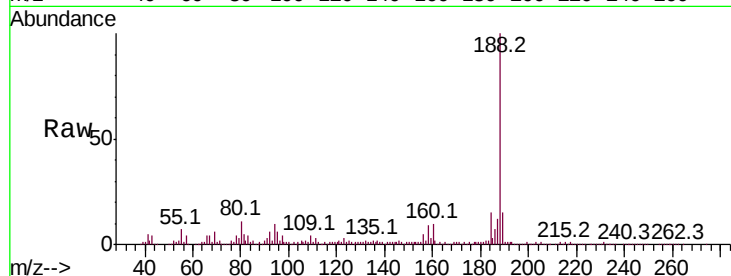




#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.23 min Scan# 1512
 Delta R.T. 0.00 min
 Lab File: BF109105.D
 Acq: 18 Sep 2018 19:35

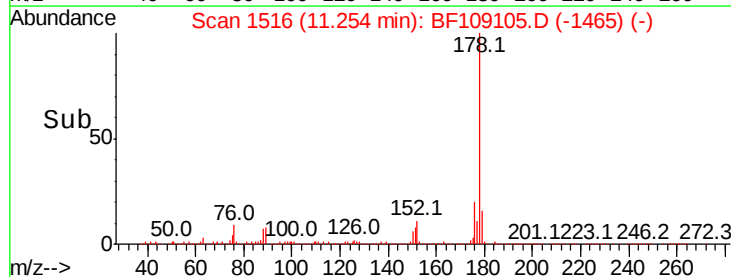
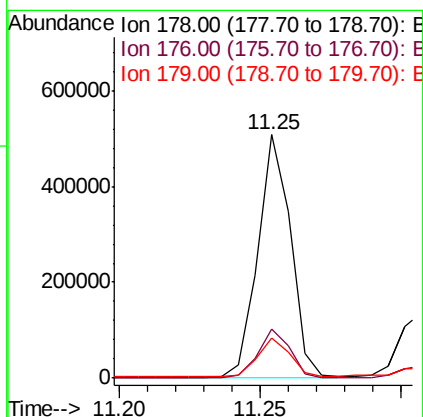
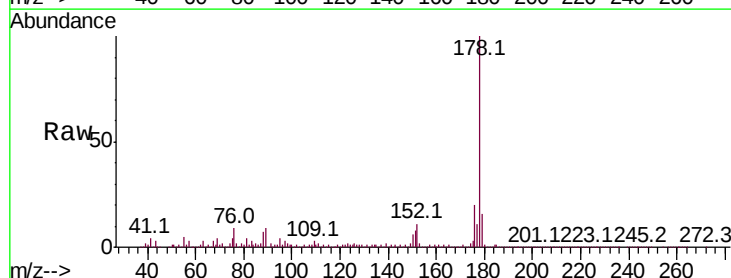
Instrument :
 BNA_F
 ClientSampleId :

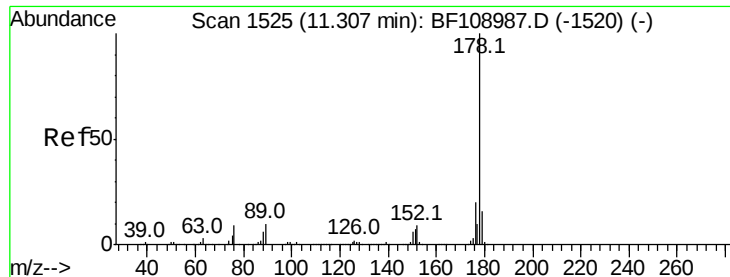
Tot Ion:188 Resp: 295345
 Ion Ratio Lower Upper
 188 100
 94 10.3 8.5 12.7
 80 10.9 9.2 13.8



#70
 Phenanthrene
 Concen: 28.057 ng
 RT: 11.25 min Scan# 1516
 Delta R.T. 0.00 min
 Lab File: BF109105.D
 Acq: 18 Sep 2018 19:35

Tgt Ion:178 Resp: 406197
 Ion Ratio Lower Upper
 178 100
 176 20.0 15.8 23.8
 179 16.2 13.0 19.6

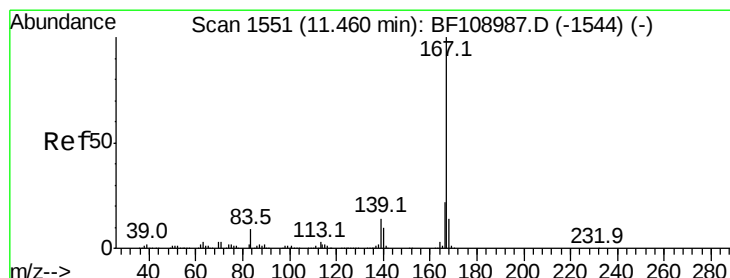
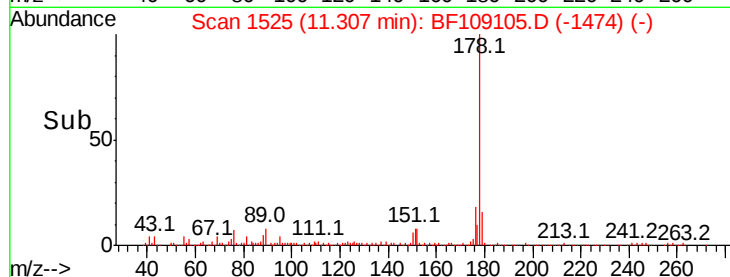
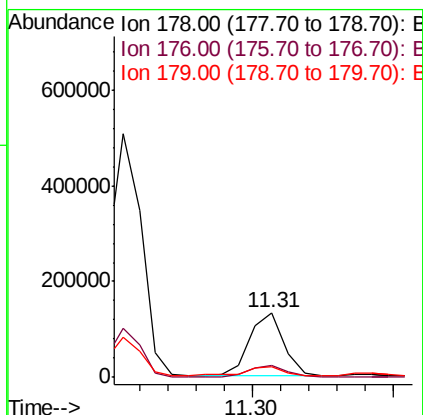
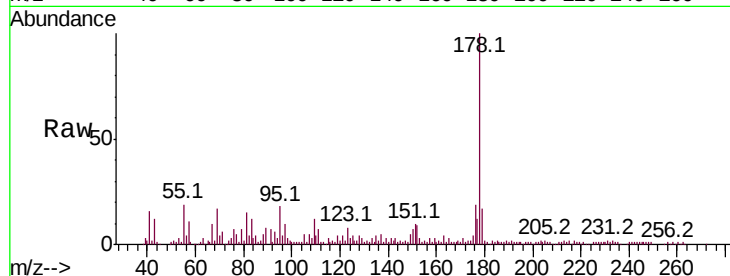




#71
 Anthracene
 Concen: 7.506 ng
 RT: 11.31 min Scan# 1525
 Delta R.T. 0.00 min
 Lab File: BF109105.D
 Acq: 18 Sep 2018 19:35

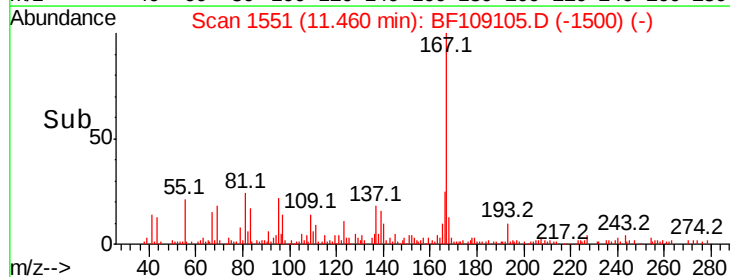
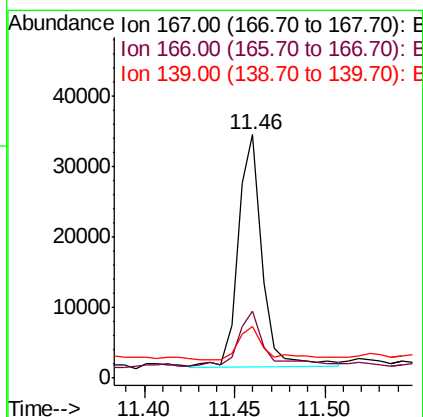
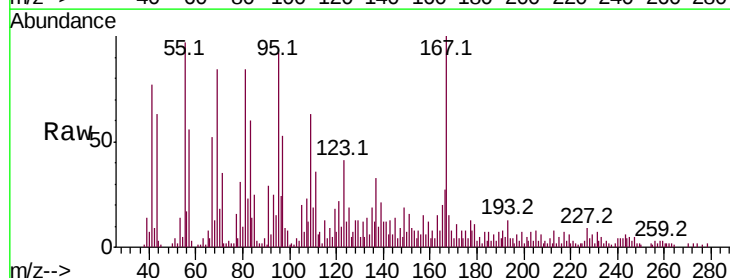
Instrument :
 BNA_F
 ClientSampleId :

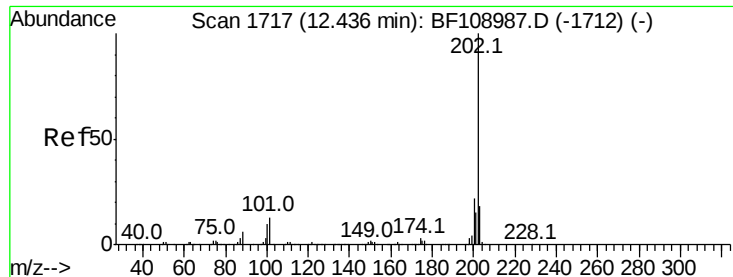
Tot Ion:178 Resp: 110166
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.4 23.2
 179 16.9 12.6 19.0



#72
 Carbazole
 Concen: 2.056 ng
 RT: 11.46 min Scan# 1551
 Delta R.T. 0.00 min
 Lab File: BF109105.D
 Acq: 18 Sep 2018 19:35

Tgt Ion:167 Resp: 29874
 Ion Ratio Lower Upper
 167 100
 166 27.3 17.6 26.4#
 139 21.2 10.9 16.3#





#74

Fluoranthene

Concen: 56.704 ng

RT: 12.44 min Scan# 1718

Delta R.T. 0.01 min

Lab File: BF109105.D

Acq: 18 Sep 2018 19:35

Instrument :

BNA_F

ClientSampleId :

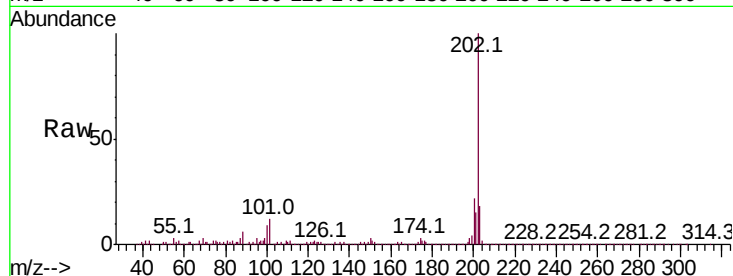
Tot Ion:202 Resp: 866677

Ion Ratio Lower Upper

202 100

101 12.4 0.0 34.1

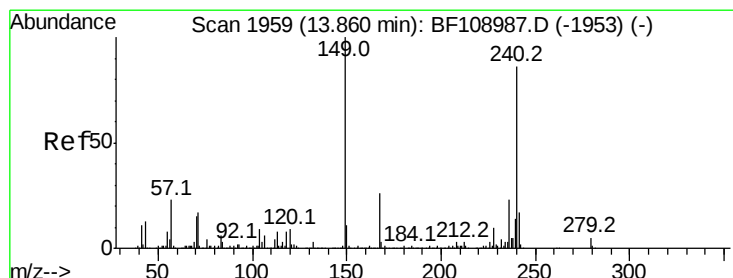
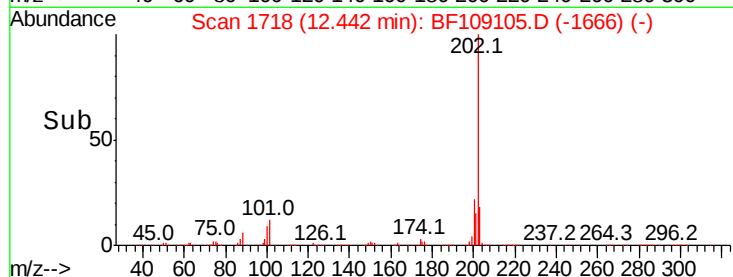
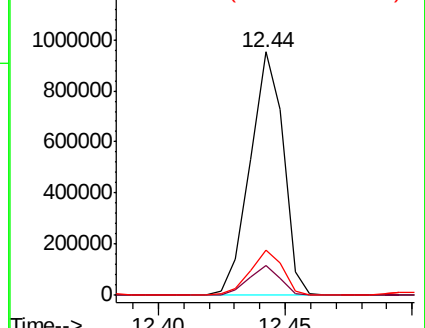
203 18.4 0.0 38.1



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: 13.86 min Scan# 1959

Delta R.T. 0.00 min

Lab File: BF109105.D

Acq: 18 Sep 2018 19:35

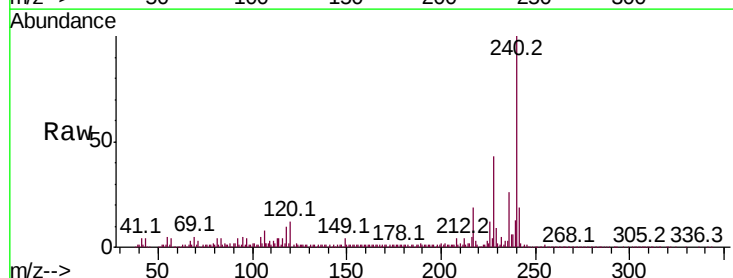
Tgt Ion:240 Resp: 330605

Ion Ratio Lower Upper

240 100

120 12.4 9.5 14.3

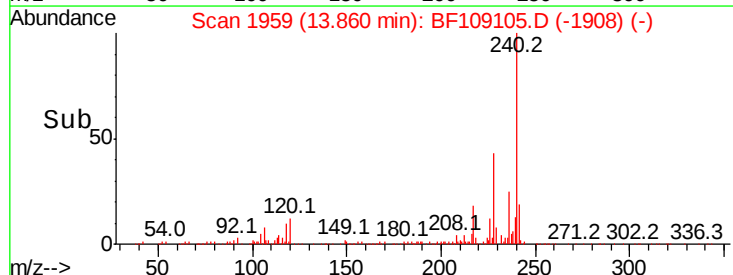
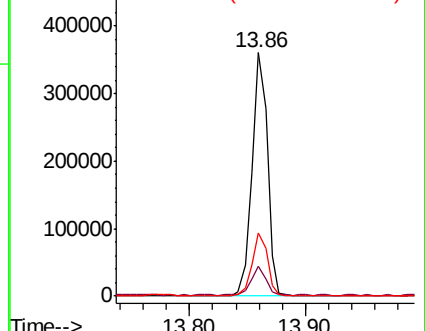
236 25.8 20.7 31.1

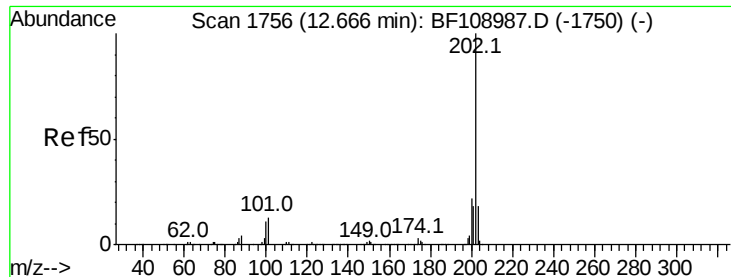


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 32.279 ng

RT: 12.67 min Scan# 1757

Delta R.T. 0.01 min

Lab File: BF109105.D

Acq: 18 Sep 2018 19:35

Instrument :

BNA_F

ClientSampleId :

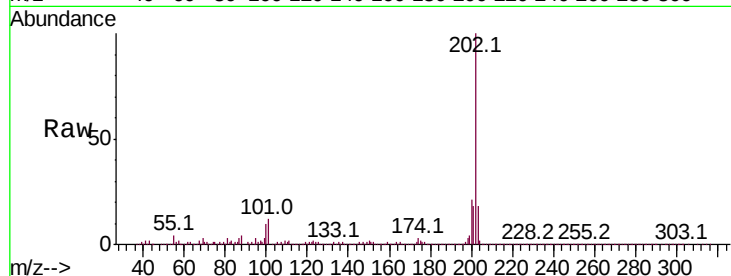
Tot Ion:202 Resp: 792684

Ion Ratio Lower Upper

202 100

200 21.4 17.4 26.2

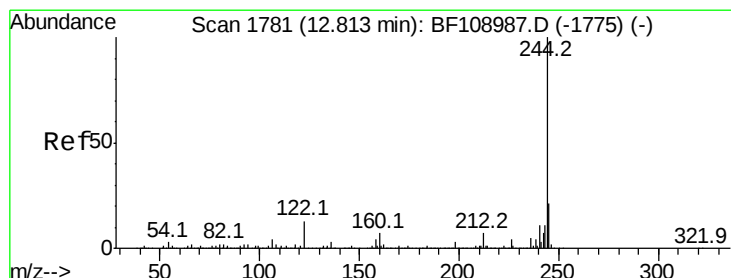
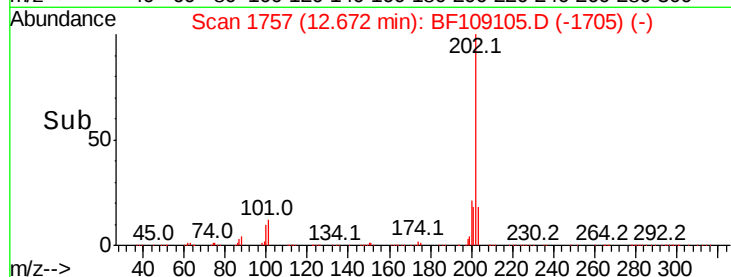
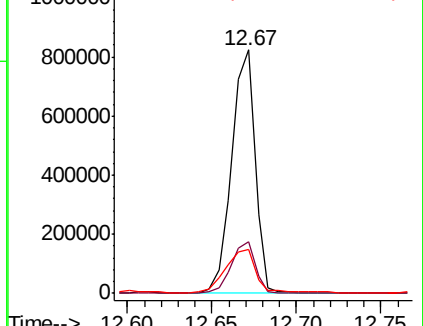
203 18.0 14.3 21.5



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: 21.781 ng

RT: 12.81 min Scan# 1781

Delta R.T. 0.00 min

Lab File: BF109105.D

Acq: 18 Sep 2018 19:35

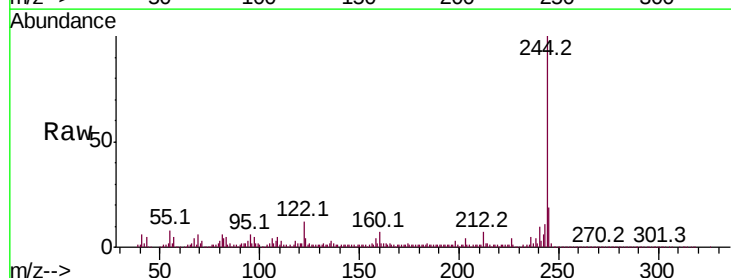
Tgt Ion:244 Resp: 303795

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

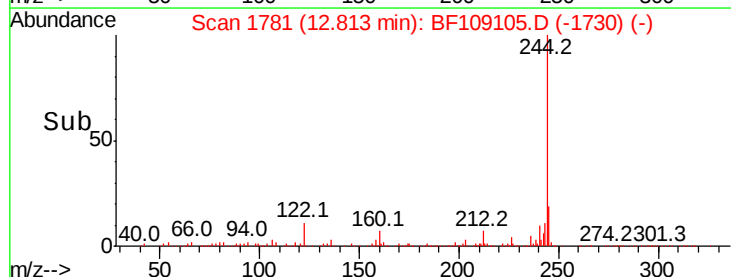
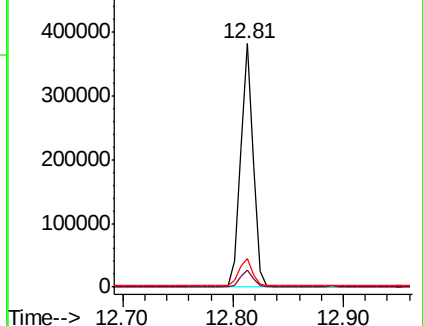
122 11.6 11.0 16.4

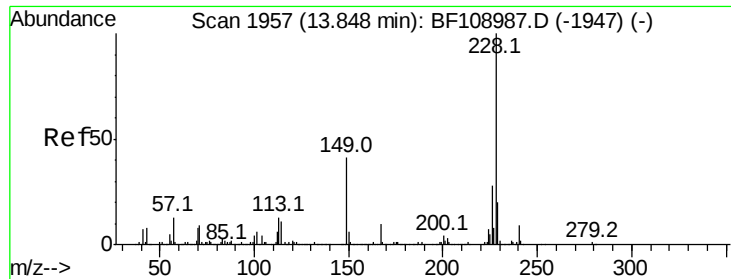


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

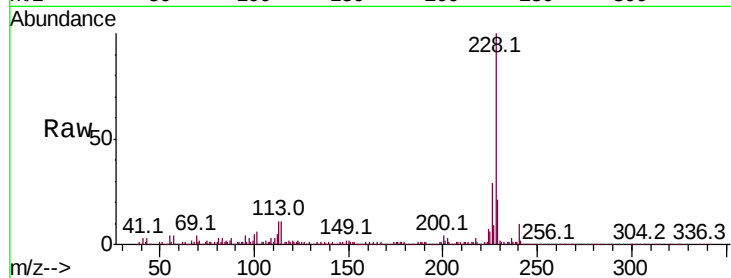




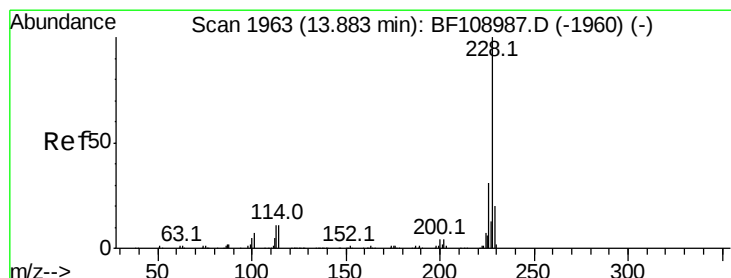
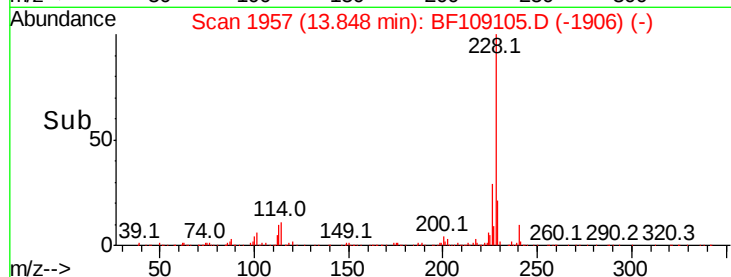
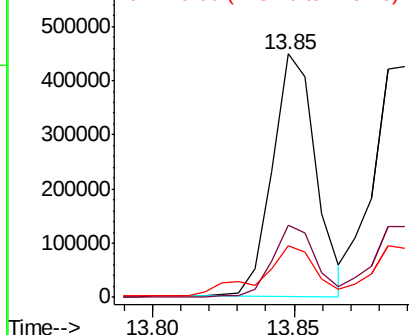
#80
Benzo(a)anthracene
Concen: 23.867 ng
RT: 13.85 min Scan# 1957
Delta R.T. 0.00 min
Lab File: BF109105.D
Acq: 18 Sep 2018 19:35

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.6	33.8
229	21.4	15.8	23.6

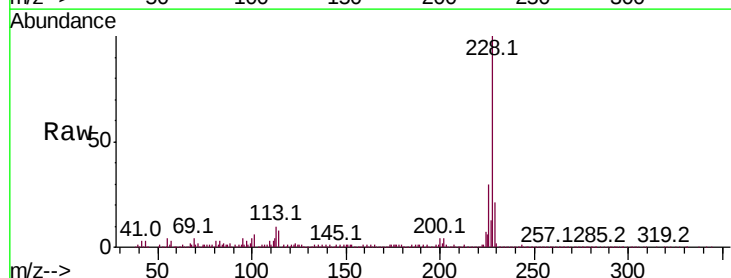


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

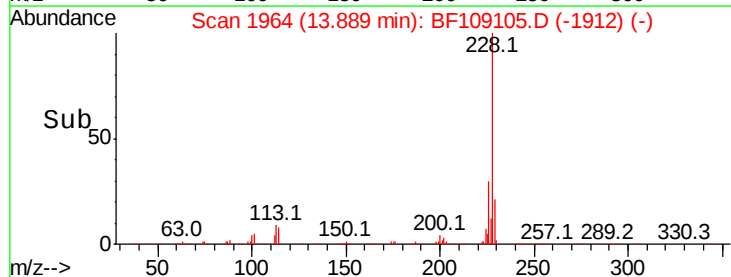
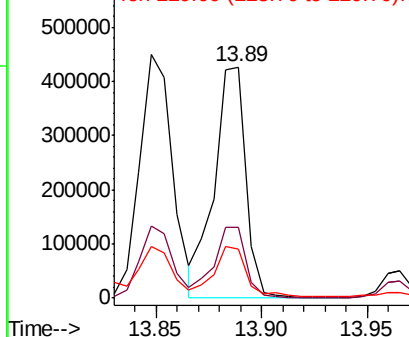


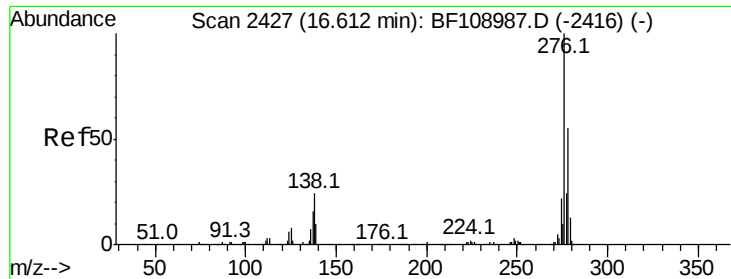
#82
Chrysene
Concen: 21.831 ng
RT: 13.89 min Scan# 1964
Delta R.T. 0.01 min
Lab File: BF109105.D
Acq: 18 Sep 2018 19:35

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	25.0	37.6
229	21.4	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: 2.288 ng

RT: 16.47 min Scan# 2403

Delta R.T. -0.14 min

Lab File: BF109105.D

Acq: 18 Sep 2018 19:35

Instrument :

BNA_F

ClientSampleId :

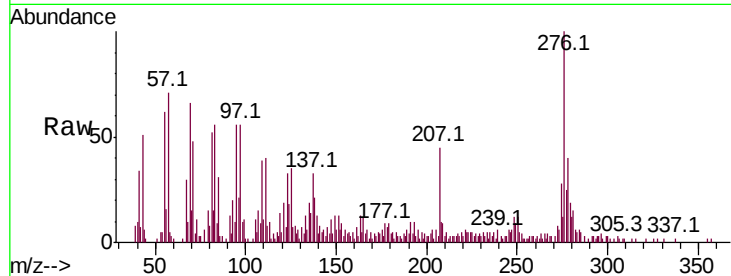
Tot Ion:276 Resp: 36634

Ion Ratio Lower Upper

276 100

138 25.1 25.0 37.6

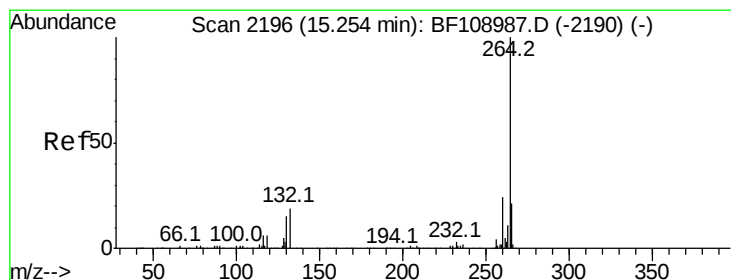
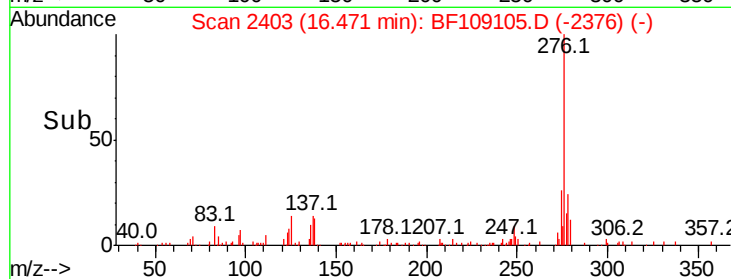
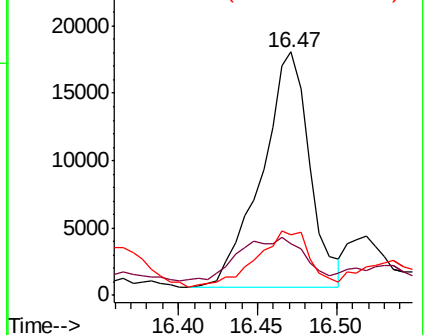
277 27.5 20.1 30.1



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

Perylene-d12

Concen: 20.000 ng

RT: 15.27 min Scan# 2198

Delta R.T. 0.01 min

Lab File: BF109105.D

Acq: 18 Sep 2018 19:35

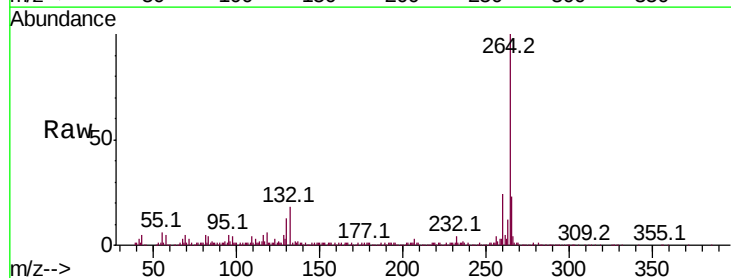
Tgt Ion:264 Resp: 326940

Ion Ratio Lower Upper

264 100

260 24.4 19.2 28.8

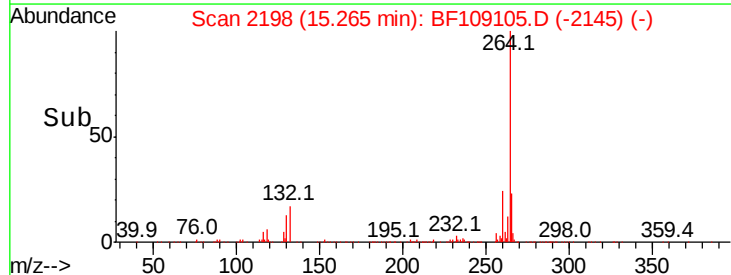
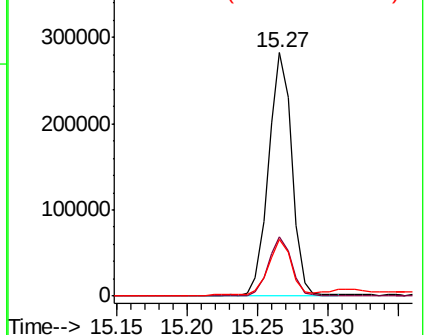
265 23.2 17.5 26.3

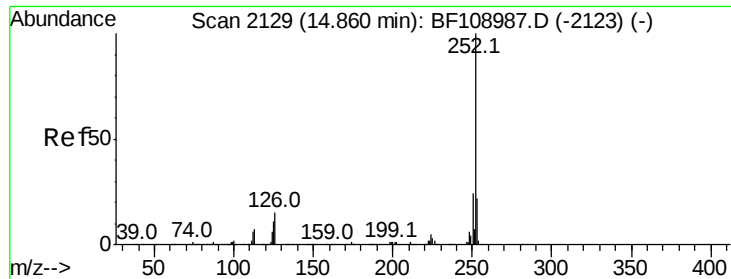


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 42.615 ng

RT: 14.87 min Scan# 2131

Delta R.T. 0.01 min

Lab File: BF109105.D

Acq: 18 Sep 2018 19:35

Instrument :

BNA_F

ClientSampleId :

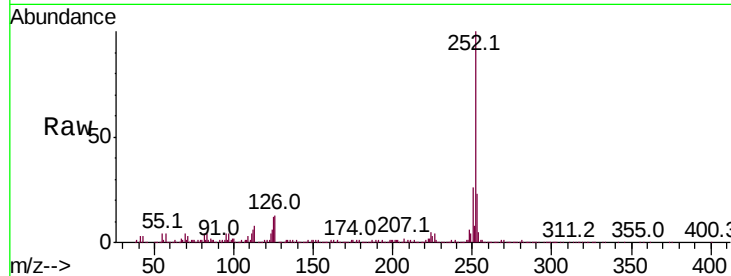
Tot Ion:252 Resp: 770772

Ion Ratio Lower Upper

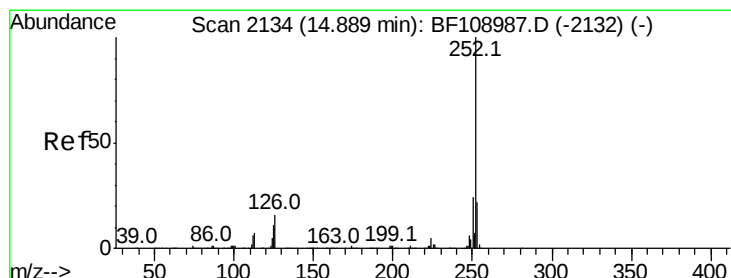
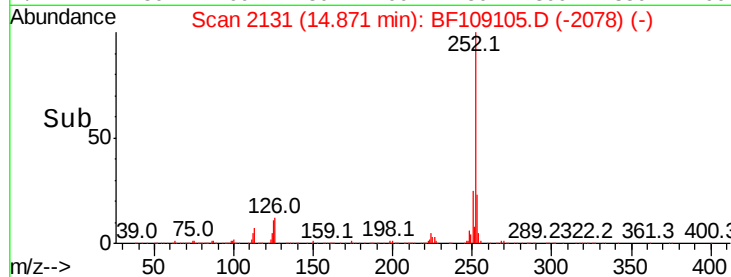
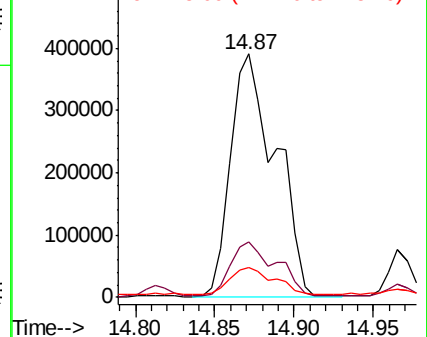
252 100

253 22.9 17.0 25.6

125 12.1 9.0 13.6



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



#88

Benzo(k)fluoranthene

Concen: 45.625 ng

RT: 14.87 min Scan# 2131

Delta R.T. -0.02 min

Lab File: BF109105.D

Acq: 18 Sep 2018 19:35

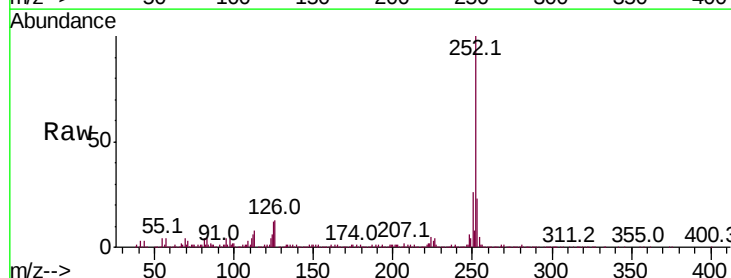
Tgt Ion:252 Resp: 770772

Ion Ratio Lower Upper

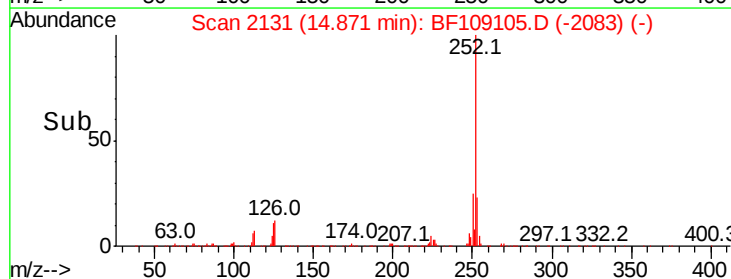
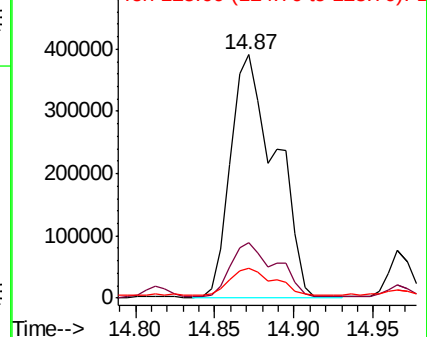
252 100

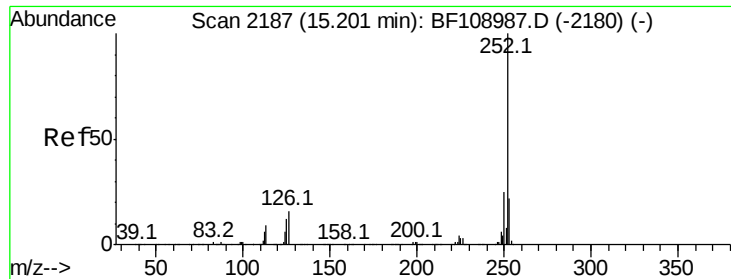
253 22.9 17.9 26.9

125 12.1 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: 23.432 ng

RT: 15.21 min Scan# 2188

Delta R.T. 0.01 min

Lab File: BF109105.D

Acq: 18 Sep 2018 19:35

Instrument :

BNA_F

ClientSampleId :

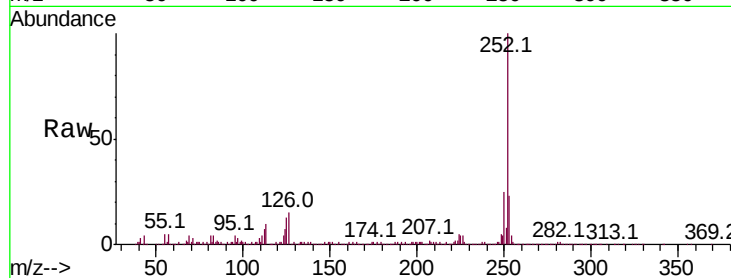
Tot Ion:252 Resp: 376371

Ion Ratio Lower Upper

252 100

253 22.8 17.1 25.7

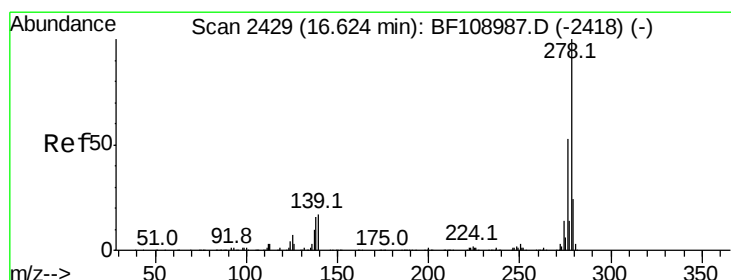
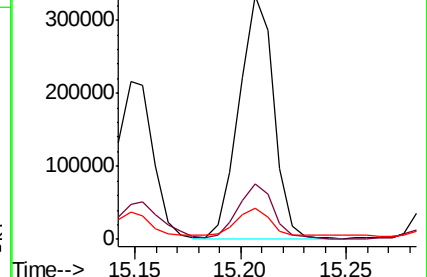
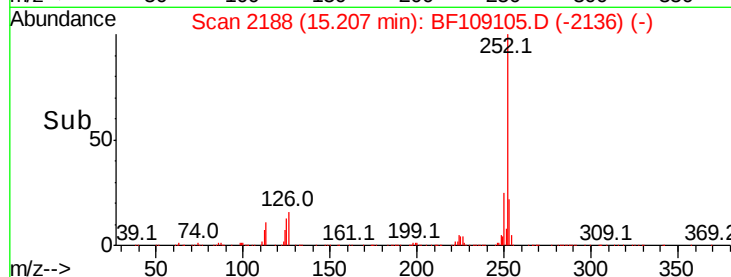
125 12.7 9.8 14.6



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



#90

Dibenzo(a,h)anthracene

Concen: 3.732 ng

RT: 16.62 min Scan# 2429

Delta R.T. 0.00 min

Lab File: BF109105.D

Acq: 18 Sep 2018 19:35

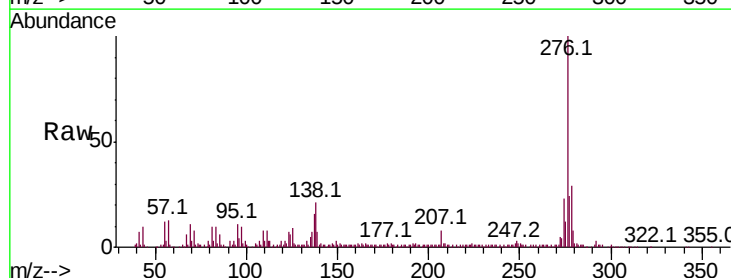
Tgt Ion:278 Resp: 50365

Ion Ratio Lower Upper

278 100

139 23.6 15.9 23.9

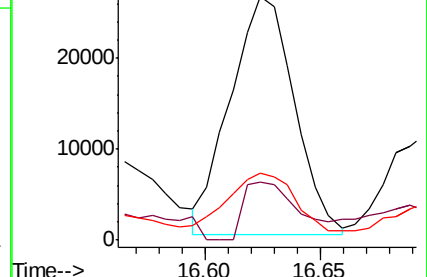
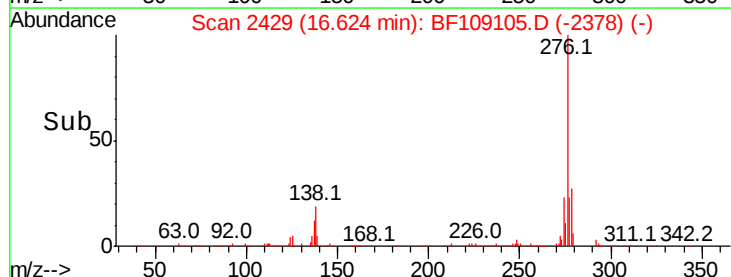
279 27.7 19.0 28.4

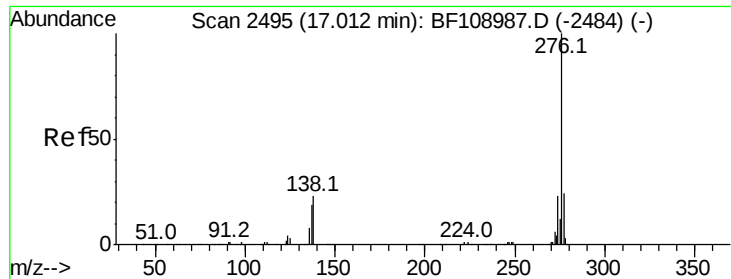


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

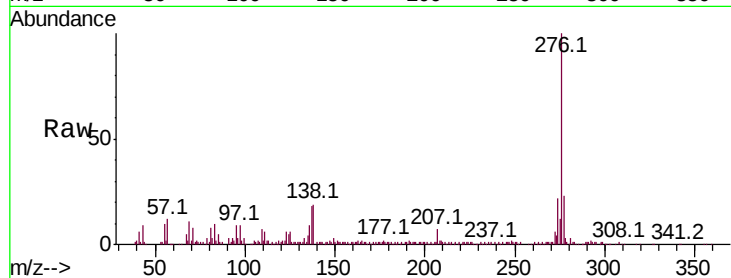




#91
 Benzo(a,h,i)perylene
 Concen: 13.343 ng
 RT: 17.02 min Scan# 2497
 Delta R.T. 0.01 min
 Lab File: BF109105.D
 Acq: 18 Sep 2018 19:35

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.2	17.9	26.9
138	19.1	21.8	32.8



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

