

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011215\
 Data File : BF076831.D
 Acq On : 13 Jan 2015 5:53
 Operator : IZ / TP
 Sample : G1030-09 5X
 Misc : S
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP3-SS-3(7-7.5)

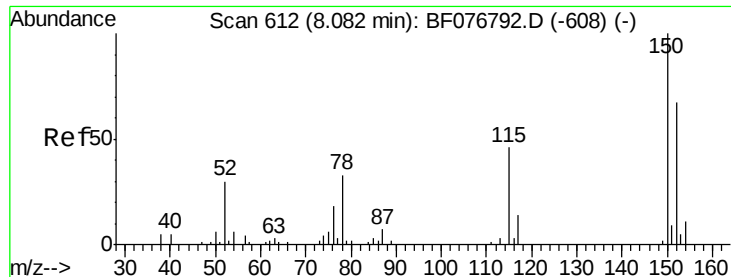
Quant Time: Jan 13 11:24:16 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 12 10:43:48 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.08	152	31788	20.00	ng	0.00
21) Naphthalene-d8	11.00	136	128007	20.00	ng	0.00
38) Acenaphthene-d10	15.13	164	67818	20.00	ng	0.00
63) Phenanthrene-d10	17.87	188	109427	20.00	ng	0.01
75) Chrysene-d12	21.37	240	112697	20.00	ng	0.02
86) Perylene-d12	23.02	264	107305	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.17	112	42149	22.13	ng	-0.01
7) Phenol-d6	7.49	99	54455	22.71	ng	-0.01
23) Nitrobenzene-d5	9.37	82	32185	13.97	ng	-0.01
41) 2,4,6-Tribromophenol	16.77	330	11640	20.56	ng	-0.01
44) 2-Fluorobiphenyl	13.64	172	61052	13.25	ng	-0.01
78) Terphenyl-d14	20.08	244	58582	11.41	ng	0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	11.04	128	407941	62.12	ng	99
37) 2-Methylnaphthalene	12.70	142	115838	25.14	ng	98
45) 1,1'-Biphenyl	13.84	154	36815	7.06	ng	96
48) Acenaphthylene	14.78	152	182788	25.74	ng	99
51) Acenaphthene	15.20	154	308928	77.02	ng	99
54) Dibenzofuran	15.63	168	305579	52.07	ng	99
57) Fluorene	16.32	166	363836	74.24	ng	99
70) Phenanthrene	17.92	178	4037566	592.08	ng	96
71) Anthracene	17.99	178	1265090	191.00	ng	99
72) Carbazole	18.25	167	557849	85.91	ng	98
74) Fluoranthene	19.57	202	5329071	762.98	ng	92
77) Pylene	19.85	202	4597833	567.01	ng	# 88
80) Benzo(a)anthracene	21.36	228	2933980	408.67	ng	# 94
82) Chrysene	21.41	228	2157733	332.17	ng	# 94
85) Indeno(1,2,3-cd)pyrene	24.17	276	1245353m	193.73	ng	
87) Benzo(b)fluoranthene	22.63	252	3016017	405.78	ng	94
88) Benzo(k)fluoranthene	22.65	252	762556m	117.37	ng	
89) Benzo(a)pyrene	22.99	252	1961151	307.05	ng	# 91
90) Dibenzo(a,h)anthracene	24.17	278	320201m	55.02	ng	
91) Benzo(a,h,i)perylene	24.48	276	1033807	174.07	ng	96

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.08 min Scan# 612

Delta R.T. -0.00 min

Lab File: BF076831.D

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Instrument :

BNA_F

ClientSampleId :

TP3-SS-3(7-7.5)

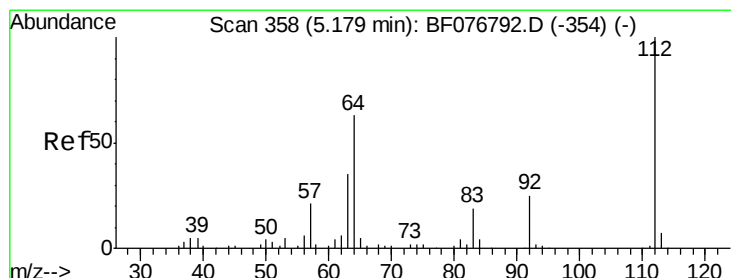
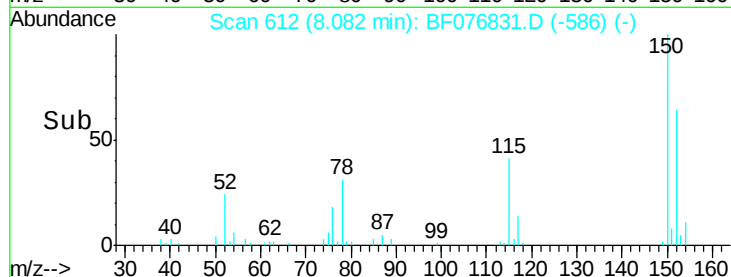
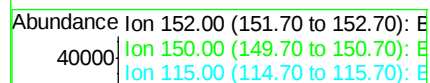
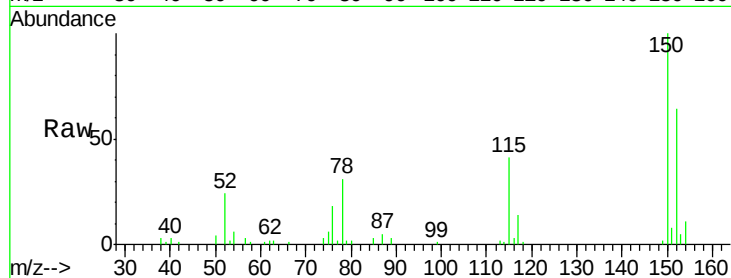
Tot Ion:152 Resp: 31788

Ion Ratio Lower Upper

152 100

150 156.9 119.5 179.3

115 64.9 54.6 81.8



#5

2-Fluorophenol

Concen: 22.13 ng

RT: 5.17 min Scan# 357

Delta R.T. -0.01 min

Lab File: BF076831.D

Acq: 13 Jan 2015 5:53

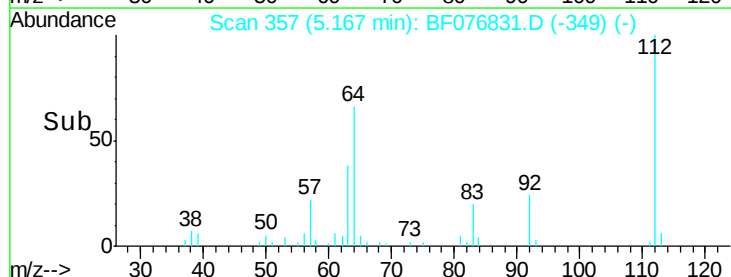
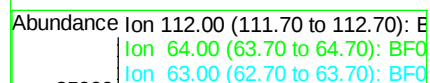
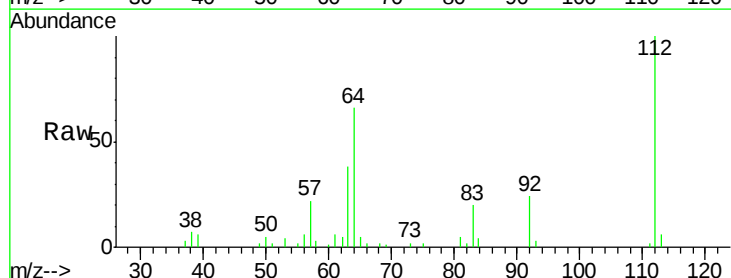
Tgt Ion:112 Resp: 42149

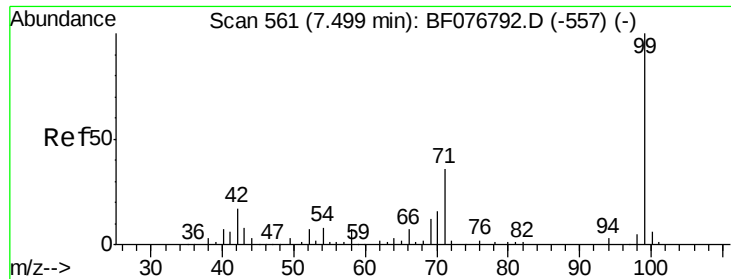
Ion Ratio Lower Upper

112 100

64 65.6 50.2 75.4

63 38.2 27.8 41.6





#7

Phenol-d6

Concen: 22.71 ng

RT: 7.49 min Scan# 560

Delta R.T. -0.01 min

Lab File: BF076831.D

Acq: 13 Jan 2015 5:53

Instrument :

BNA_F

ClientSampleId :

TP3-SS-3(7-7.5)

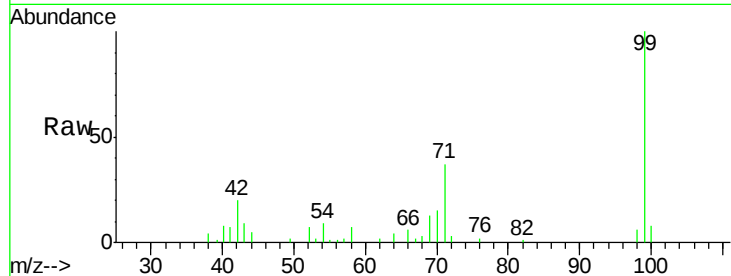
Tot Ion: 99 Resp: 54455

Ion Ratio Lower Upper

99 100

42 20.3 13.3 19.9#

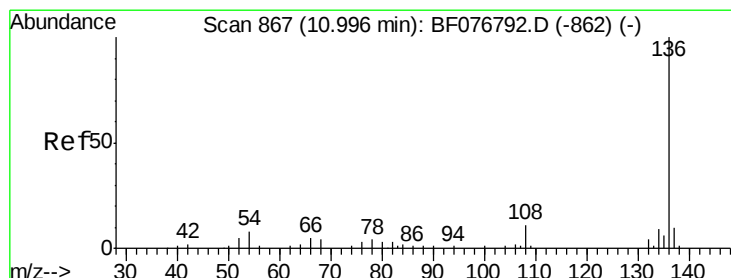
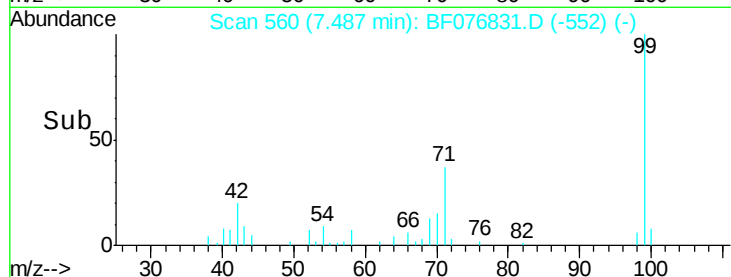
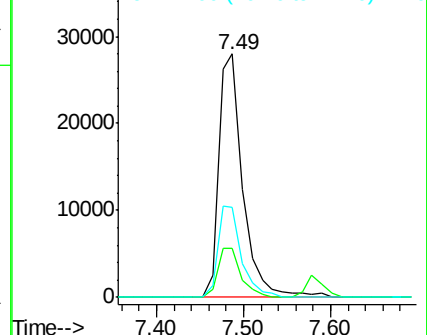
71 36.9 29.2 43.8



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: 20.00 ng

RT: 11.00 min Scan# 867

Delta R.T. -0.00 min

Lab File: BF076831.D

Acq: 13 Jan 2015 5:53

Tgt Ion: 136 Resp: 128007

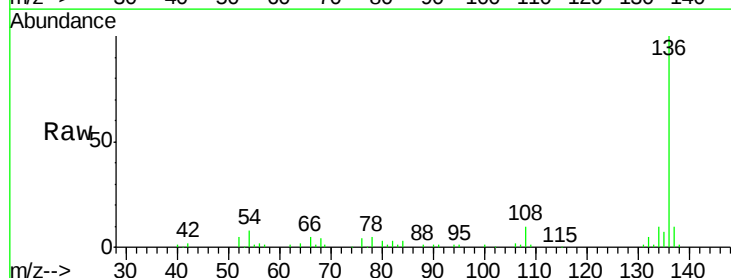
Ion Ratio Lower Upper

136 100

137 10.3 8.1 12.1

54 7.8 6.3 9.5

68 5.0 3.4 5.0

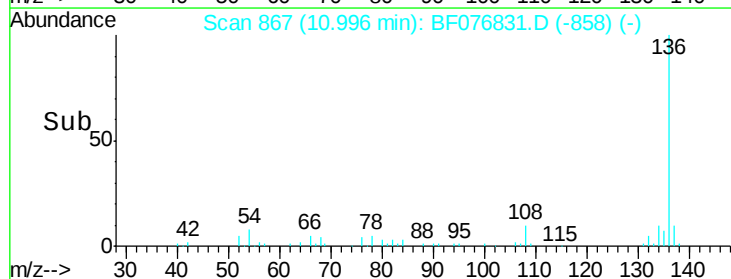
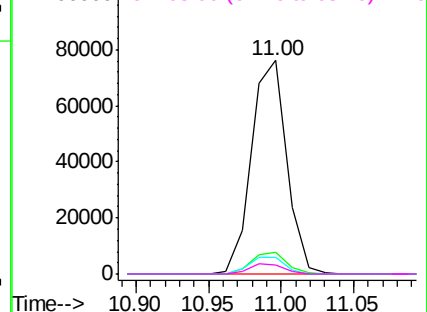


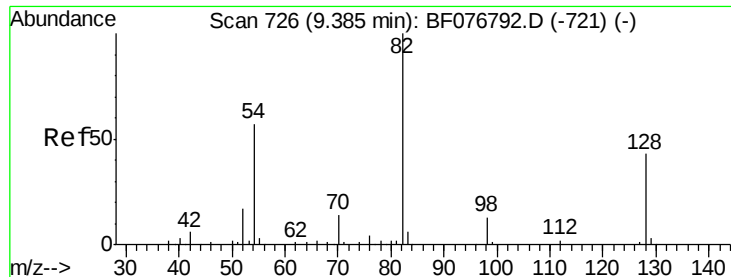
Abundance Ion 136.00 (135.70 to 136.70): E

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

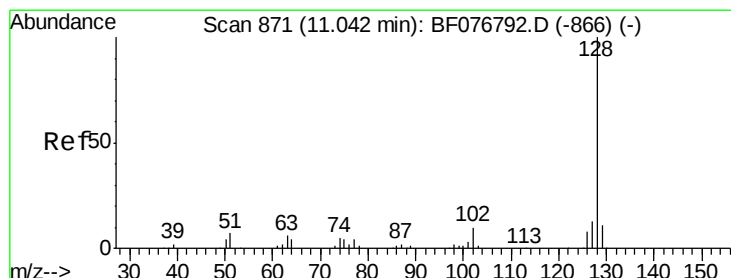
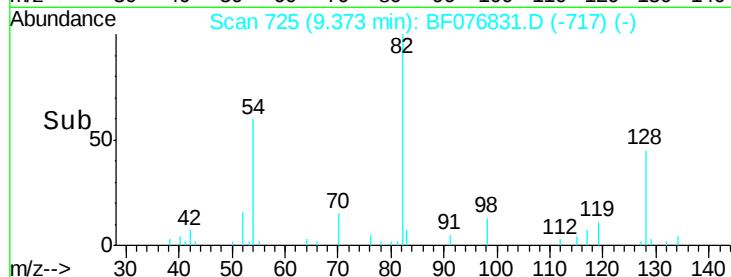
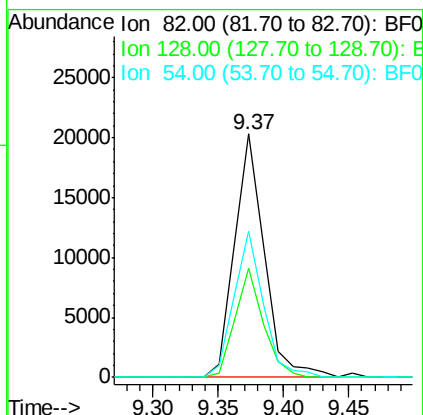
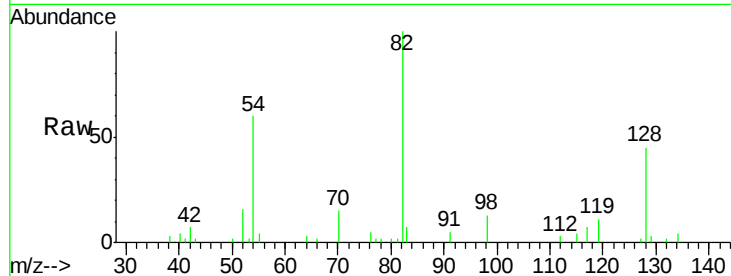




#23
 Nitrobenzene-d5
 Concen: 13.97 ng
 RT: 9.37 min Scan# 725
 Delta R.T. -0.01 min
 Lab File: BF076831.D
 Acq: 13 Jan 2015 5:53

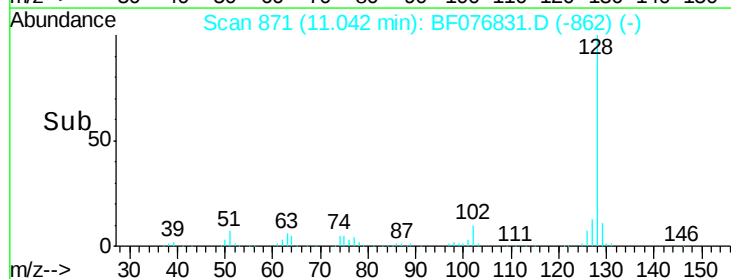
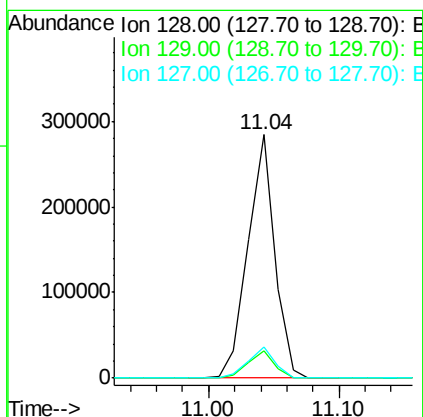
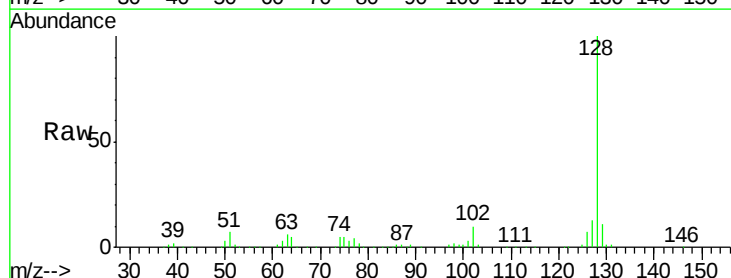
Instrument :
 BNA_F
 ClientSampleId :
 TP3-SS-3(7-7.5)

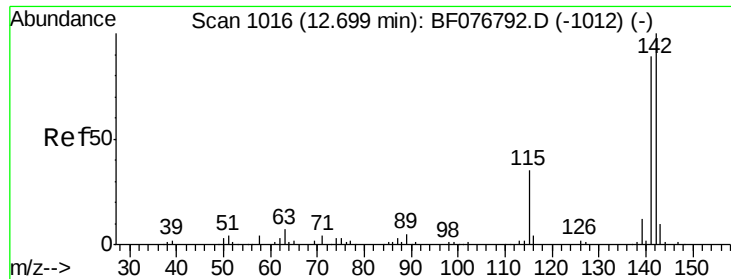
Tot Ion: 82 Resp: 32185
 Ion Ratio Lower Upper
 82 100
 128 44.9 34.0 51.0
 54 60.3 45.6 68.4



#31
 Naphthalene
 Concen: 62.12 ng
 RT: 11.04 min Scan# 871
 Delta R.T. -0.00 min
 Lab File: BF076831.D
 Acq: 13 Jan 2015 5:53

Tgt Ion: 128 Resp: 407941
 Ion Ratio Lower Upper
 128 100
 129 11.1 8.6 13.0
 127 13.0 10.1 15.1

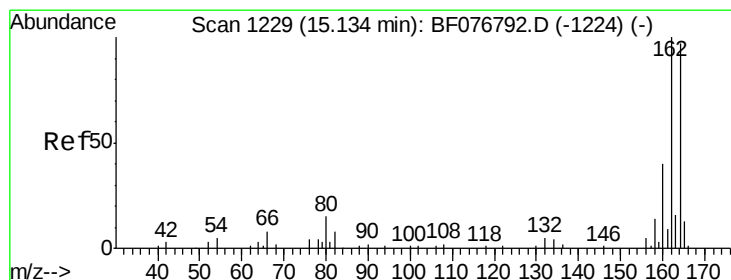
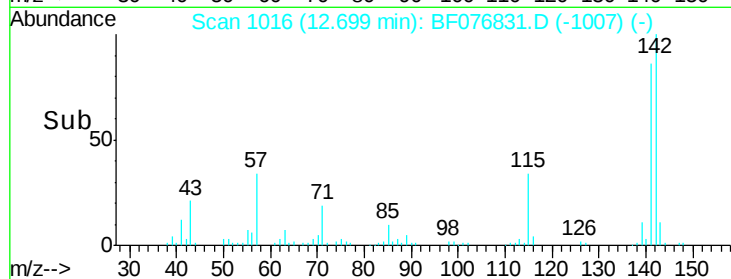
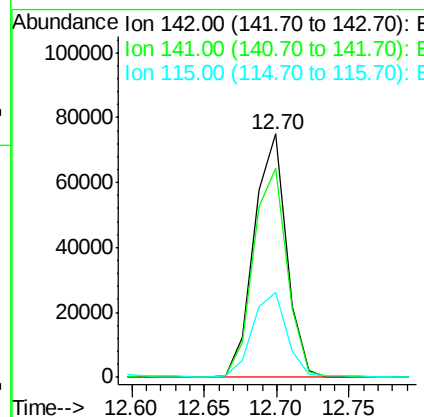
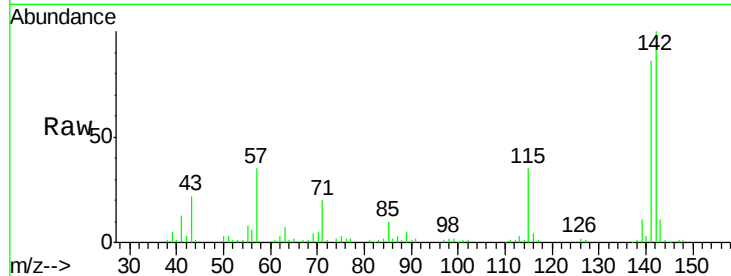




#37
2-Methylnaphthalene
Concen: 25.14 ng
RT: 12.70 min Scan# 1016
Delta R.T. -0.00 min
Lab File: BF076831.D
Acq: 13 Jan 2015 5:53

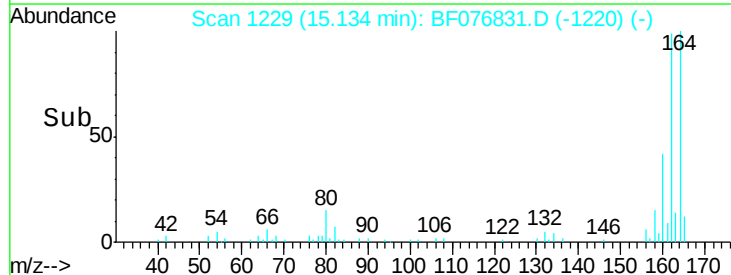
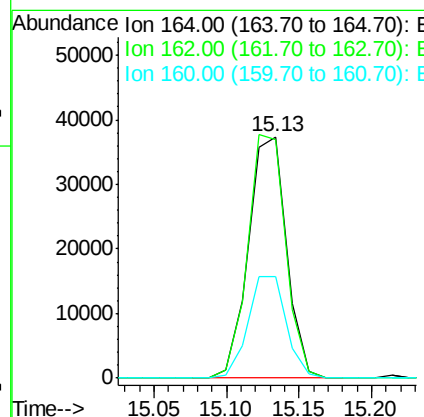
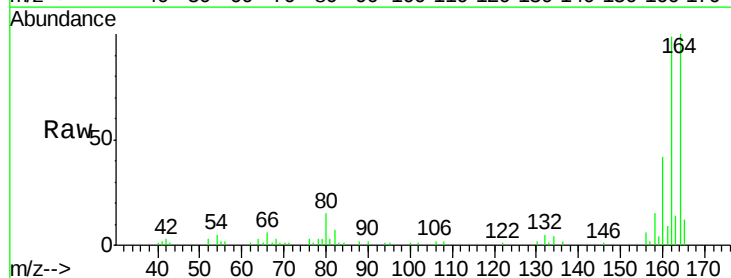
Instrument :
BNA_F
ClientSampleId :
TP3-SS-3(7-7.5)

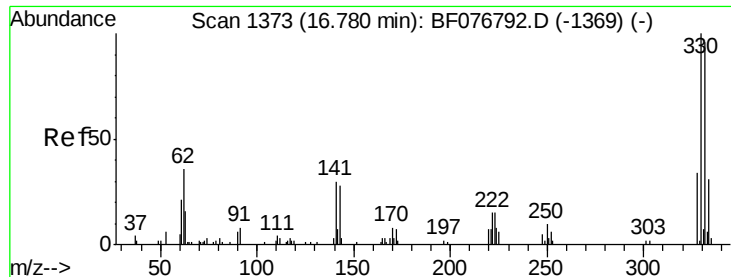
Tot Ion:142 Resp: 115838
Ion Ratio Lower Upper
142 100
141 86.1 71.0 106.4
115 34.7 28.2 42.2



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 15.13 min Scan# 1229
Delta R.T. -0.00 min
Lab File: BF076831.D
Acq: 13 Jan 2015 5:53

Tgt Ion:164 Resp: 67818
Ion Ratio Lower Upper
164 100
162 98.8 82.5 123.7
160 41.9 33.1 49.7

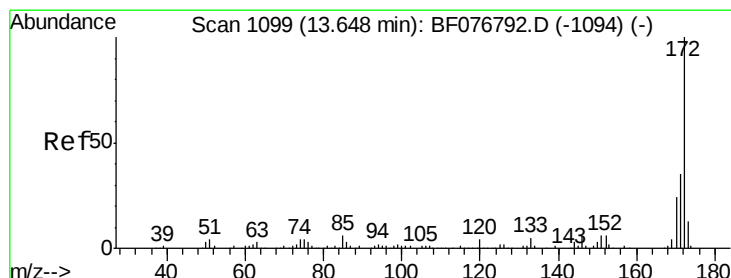
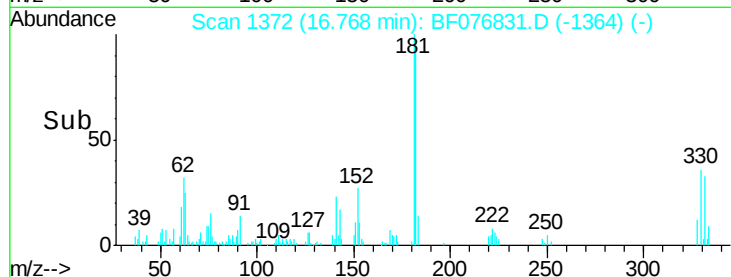
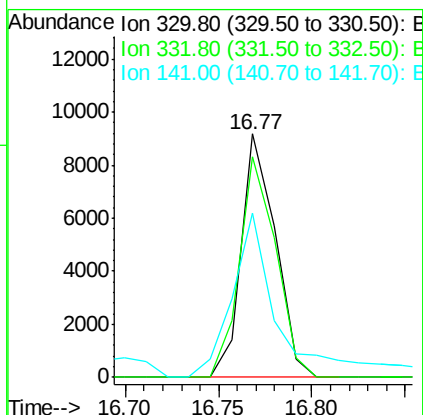
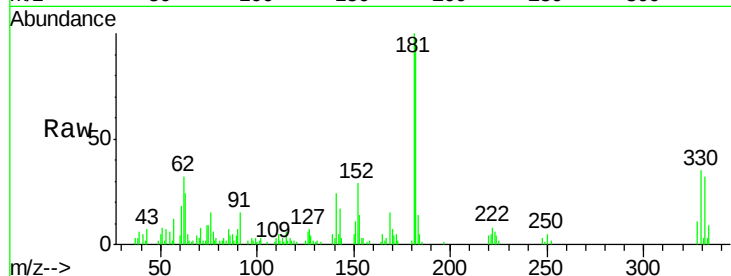




#41
 2,4,6-Tribromophenol
 Concen: 20.56 ng
 RT: 16.77 min Scan# 1372
 Delta R.T. -0.01 min
 Lab File: BF076831.D
 Acq: 13 Jan 2015 5:53

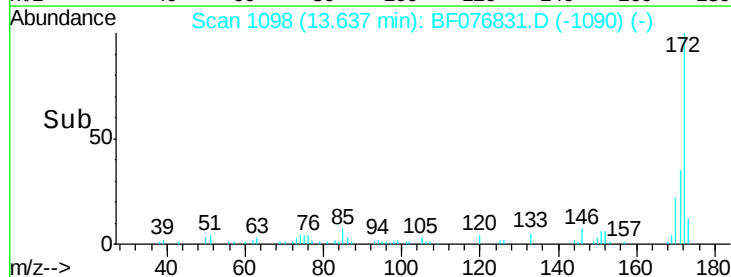
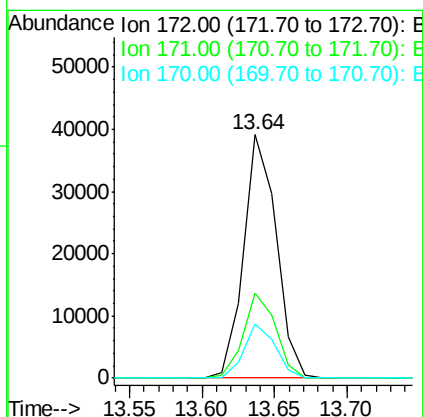
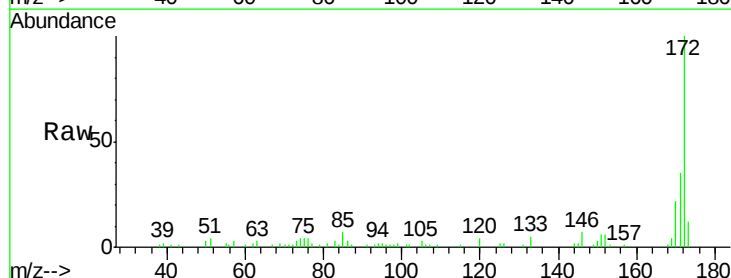
Instrument :
 BNA_F
 ClientSampleId :
 TP3-SS-3(7-7.5)

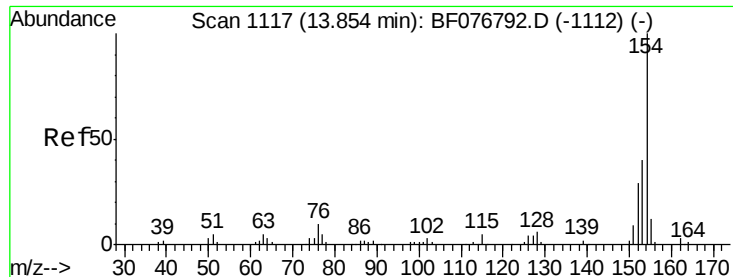
Tot Ion	Ratio	Lower	Upper
330	100		
332	97.1	74.8	112.2
141	90.5	42.4	63.6



#44
 2-Fluorobiphenyl
 Concen: 13.25 ng
 RT: 13.64 min Scan# 1098
 Delta R.T. -0.01 min
 Lab File: BF076831.D
 Acq: 13 Jan 2015 5:53

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	27.8	41.8
170	22.3	18.8	28.2

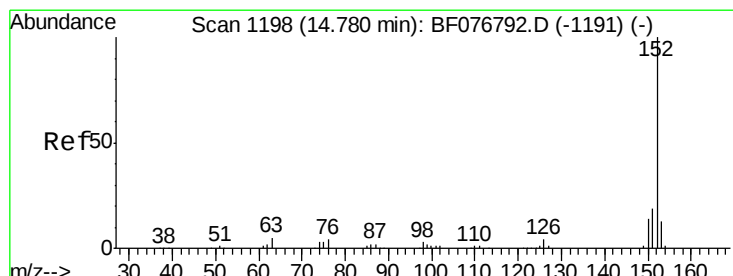
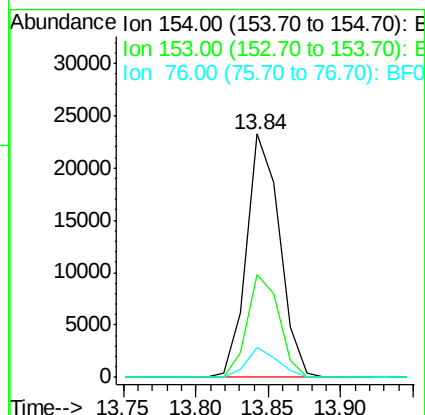
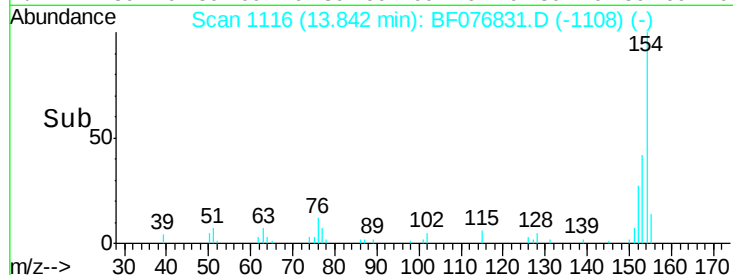
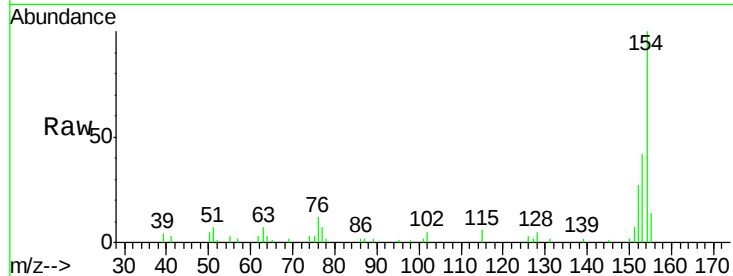




#45
1,1'-Biphenyl
Concen: 7.06 ng
RT: 13.84 min Scan# 1116
Delta R.T. -0.01 min
Lab File: BF076831.D
Acq: 13 Jan 2015 5:53

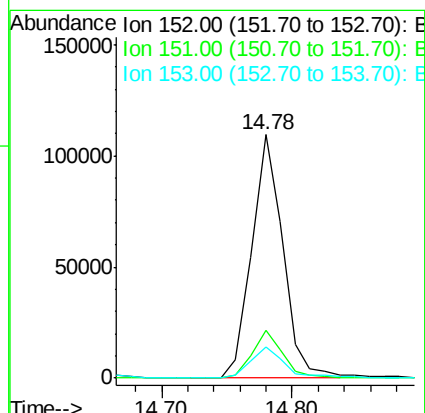
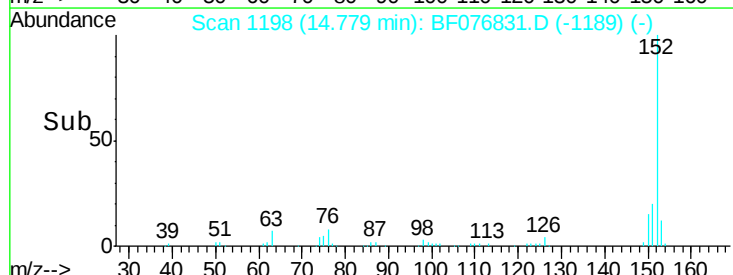
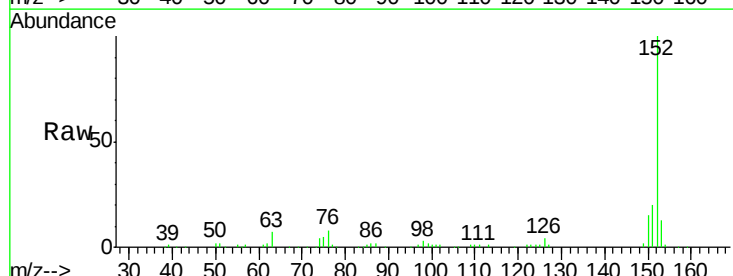
Instrument :
BNA_F
ClientSampleId :
TP3-SS-3(7-7.5)

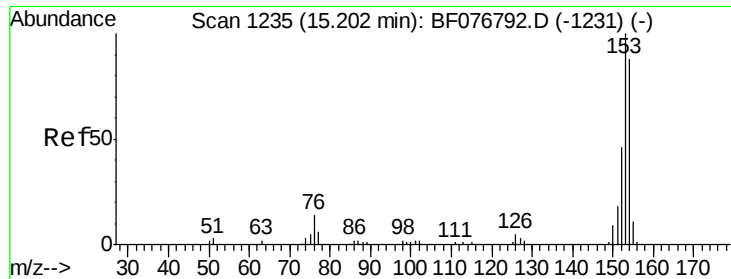
Tot Ion	Ratio	Lower	Upper
154	100		
153	42.1	19.9	59.9
76	12.3	0.0	29.9



#48
Acenaphthylene
Concen: 25.74 ng
RT: 14.78 min Scan# 1198
Delta R.T. -0.00 min
Lab File: BF076831.D
Acq: 13 Jan 2015 5:53

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.2	22.8
153	12.7	10.5	15.7





#51

Acenaphthene

Concen: 77.02 ng

RT: 15.20 min Scan# 1235

Delta R.T. -0.00 min

Lab File: BF076831.D

Acq: 13 Jan 2015 5:53

Instrument :

BNA_F

ClientSampleId :

TP3-SS-3(7-7.5)

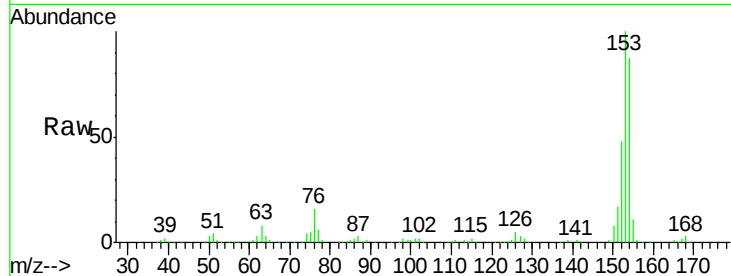
Tot Ion:154 Resp: 308928

Ion Ratio Lower Upper

154 100

153 114.7 91.0 136.6

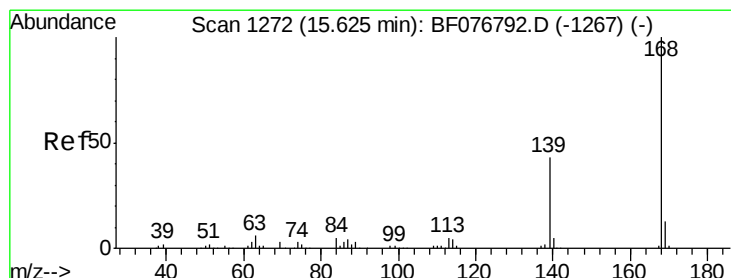
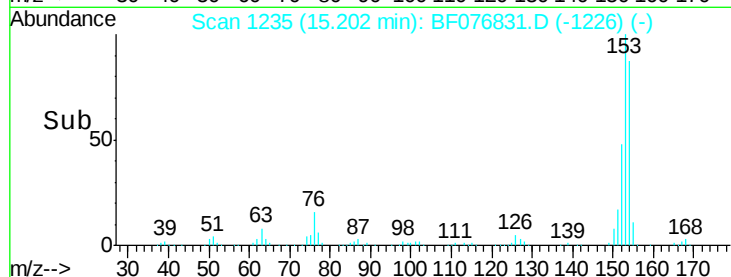
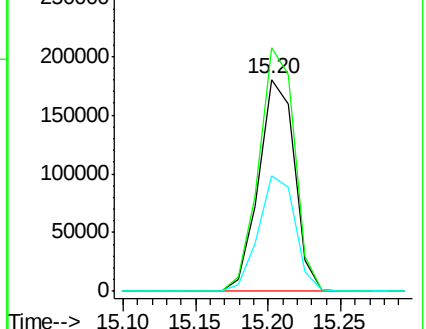
152 54.7 42.2 63.2



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: 52.07 ng

RT: 15.63 min Scan# 1272

Delta R.T. -0.00 min

Lab File: BF076831.D

Acq: 13 Jan 2015 5:53

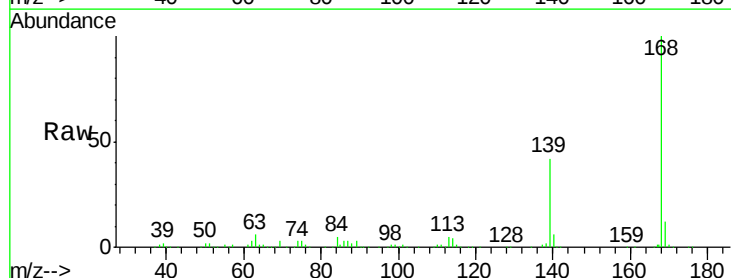
Tgt Ion:168 Resp: 305579

Ion Ratio Lower Upper

168 100

139 42.3 34.2 51.4

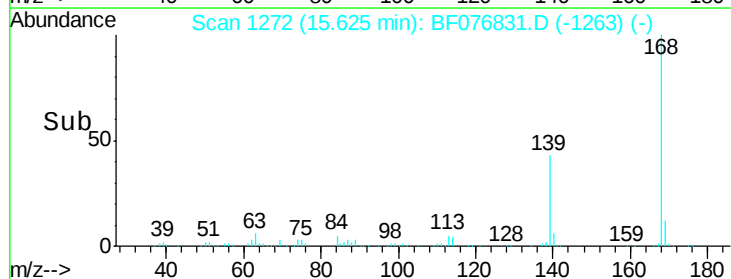
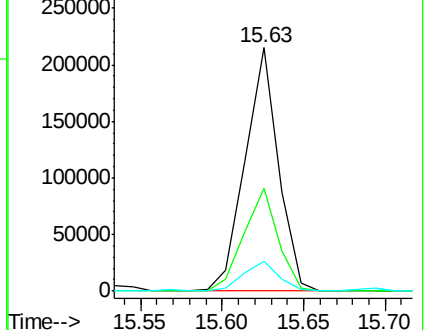
169 12.3 10.5 15.7

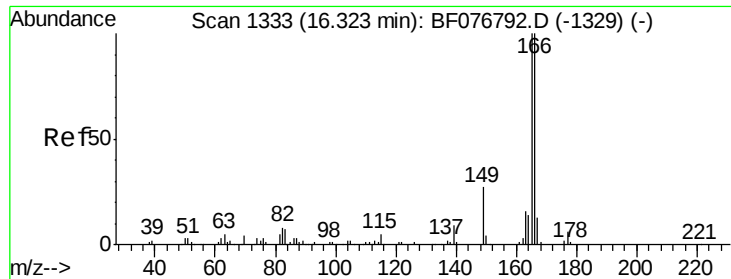


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

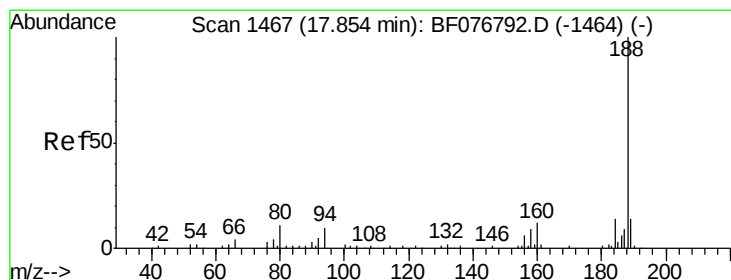
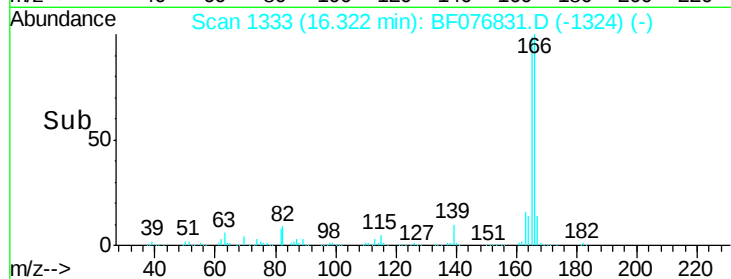
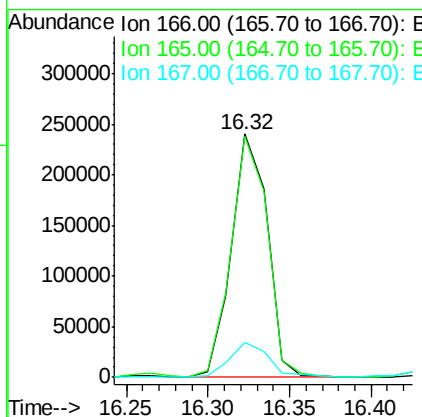
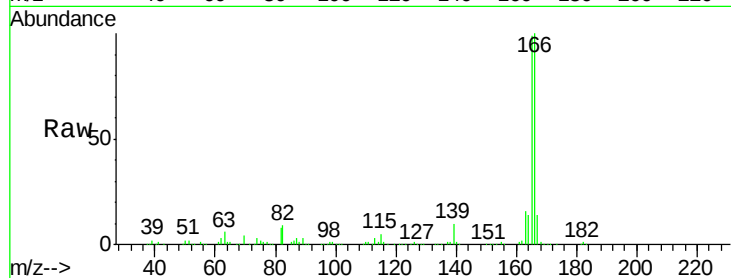




#57
Fluorene
 Concen: 74.24 ng
 RT: 16.32 min Scan# 1333
 Delta R.T. -0.00 min
 Lab File: BF076831.D
 Acq: 13 Jan 2015 5:53

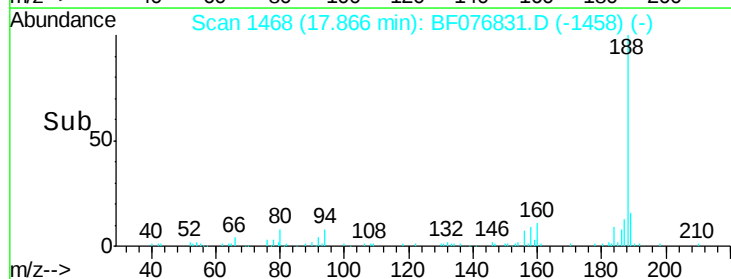
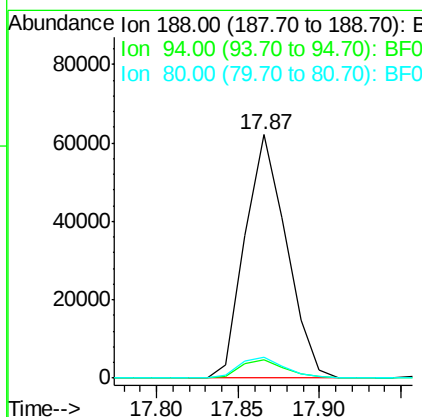
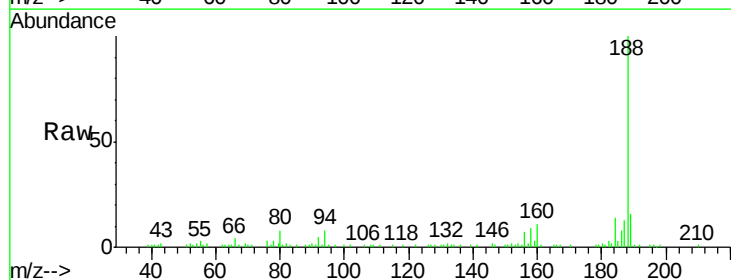
Instrument :
 BNA_F
 ClientSampleId :
 TP3-SS-3(7-7.5)

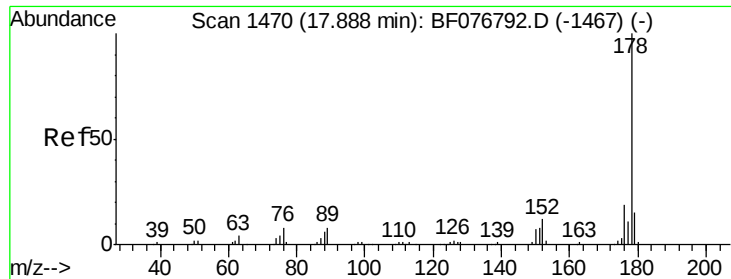
Tot Ion:166 Resp: 363836
 Ion Ratio Lower Upper
 166 100
 165 99.1 79.6 119.4
 167 14.4 10.2 15.2



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 17.87 min Scan# 1468
 Delta R.T. 0.01 min
 Lab File: BF076831.D
 Acq: 13 Jan 2015 5:53

Tgt Ion:188 Resp: 109427
 Ion Ratio Lower Upper
 188 100
 94 7.7 7.8 11.6#
 80 8.4 8.6 13.0#

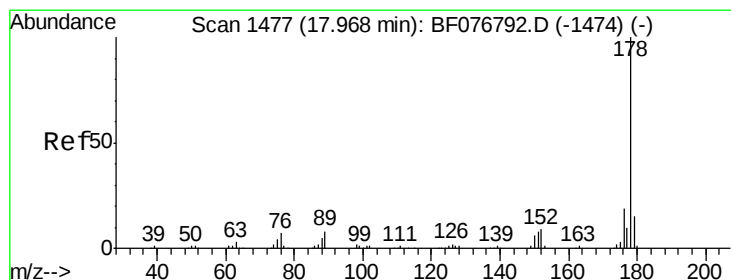
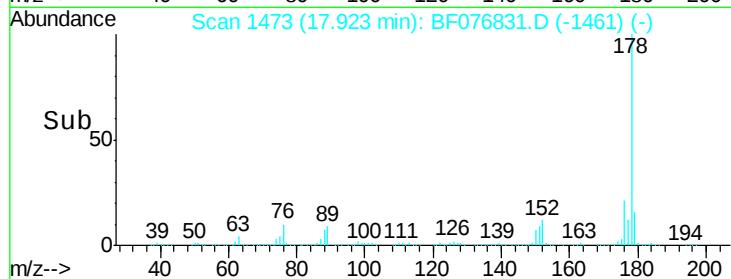
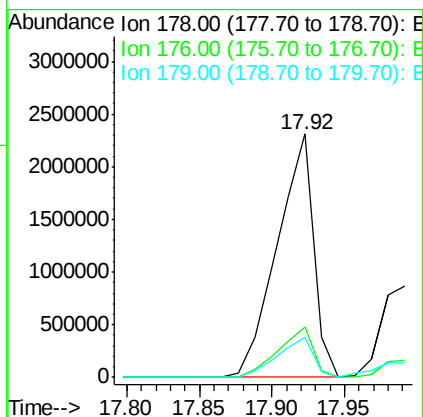
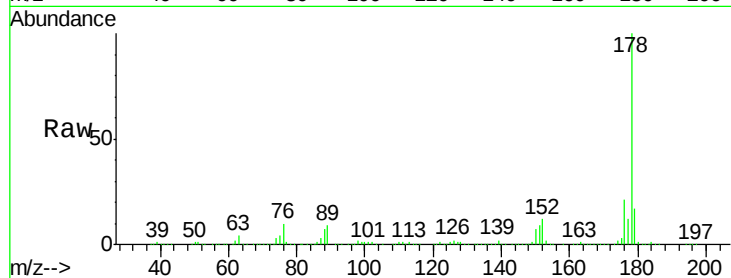




#70
 Phenanthrene
 Concen: 592.08 ng
 RT: 17.92 min Scan# 1473
 Delta R.T. 0.03 min
 Lab File: BF076831.D
 Acq: 13 Jan 2015 5:53

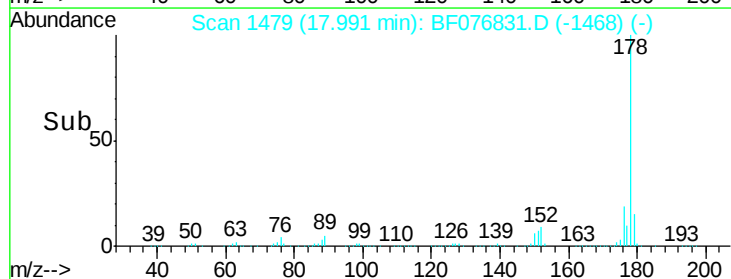
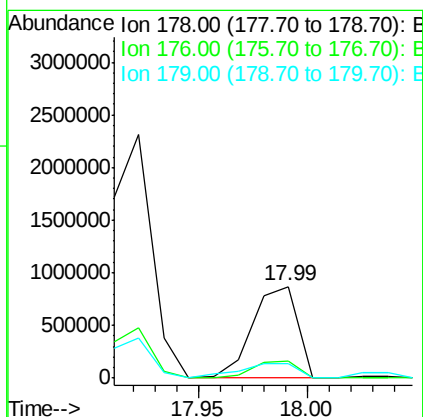
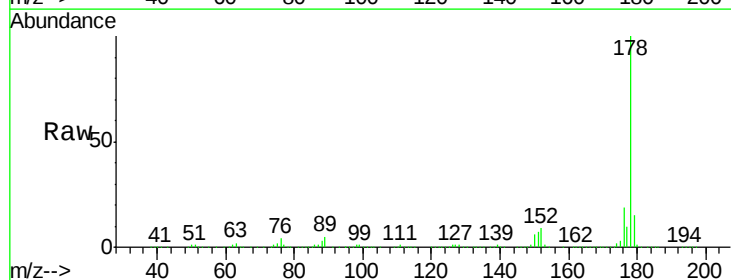
Instrument :
 BNA_F
 ClientSampleId :
 TP3-SS-3(7-7.5)

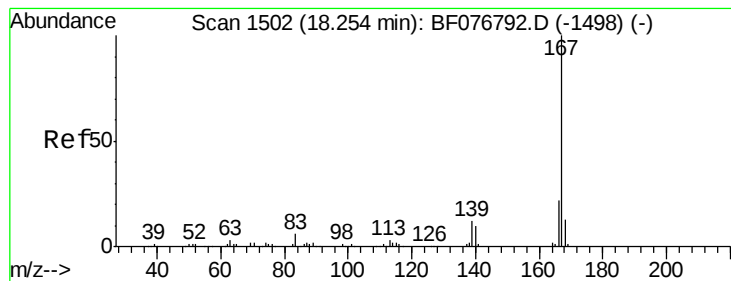
Tot Ion:178 Resp: 4037566
 Ion Ratio Lower Upper
 178 100
 176 20.8 15.2 22.8
 179 16.5 11.8 17.8



#71
 Anthracene
 Concen: 191.00 ng
 RT: 17.99 min Scan# 1479
 Delta R.T. 0.02 min
 Lab File: BF076831.D
 Acq: 13 Jan 2015 5:53

Tgt Ion:178 Resp: 1265090
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.3 22.9
 179 15.5 12.2 18.4





#72

Carbazole

Concen: 85.91 ng

RT: 18.25 min Scan# 1502

Delta R.T. -0.00 min

Lab File: BF076831.D

Acq: 13 Jan 2015 5:53

Instrument :

BNA_F

ClientSampleId :

TP3-SS-3(7-7.5)

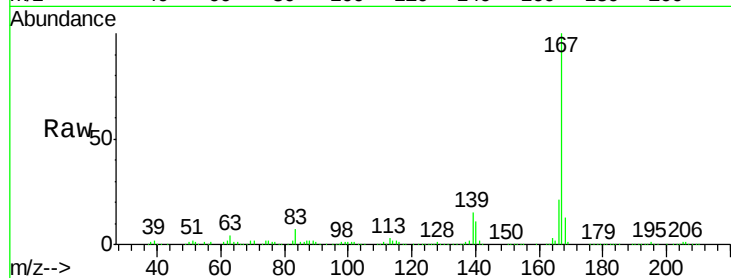
Tot Ion:167 Resp: 557849

Ion Ratio Lower Upper

167 100

166 21.4 17.2 25.8

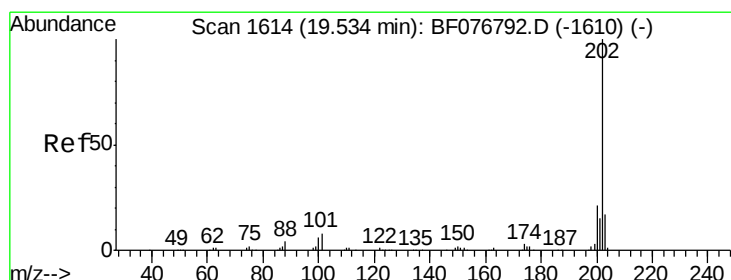
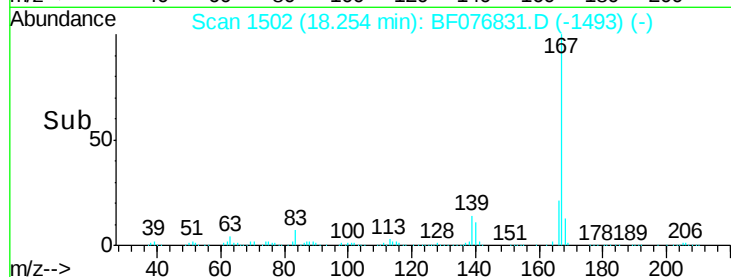
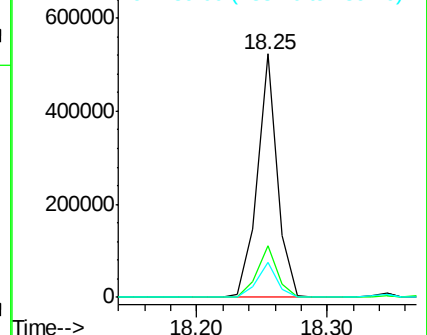
139 14.5 10.0 15.0



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 762.98 ng

RT: 19.57 min Scan# 1617

Delta R.T. 0.03 min

Lab File: BF076831.D

Acq: 13 Jan 2015 5:53

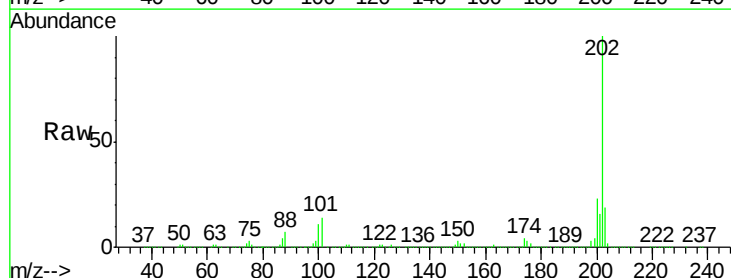
Tgt Ion:202 Resp: 5329071

Ion Ratio Lower Upper

202 100

101 13.8 0.0 28.0

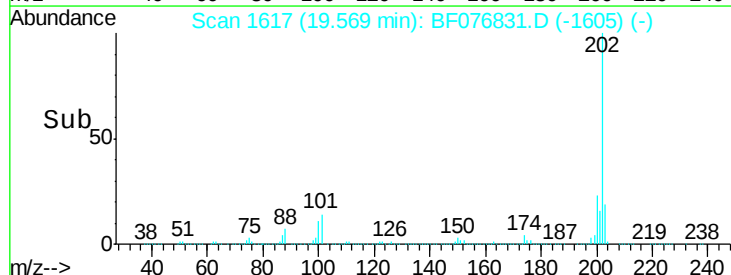
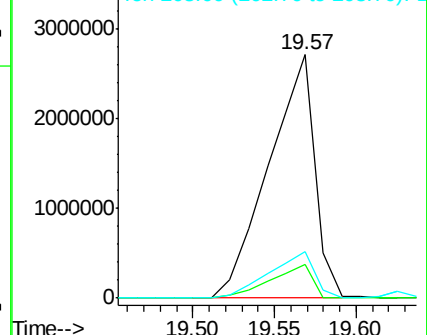
203 19.3 0.0 37.2

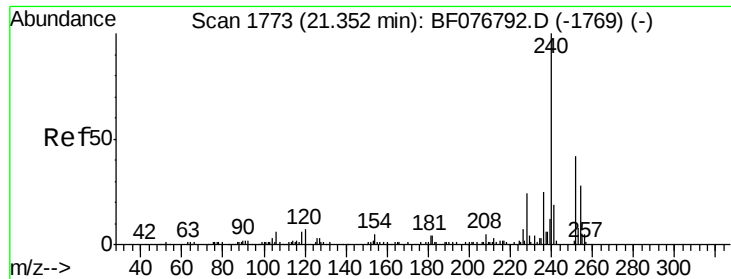


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.37 min Scan# 1775

Delta R.T. 0.02 min

Lab File: BF076831.D

Acq: 13 Jan 2015 5:53

Instrument :

BNA_F

ClientSampleId :

TP3-SS-3(7-7.5)

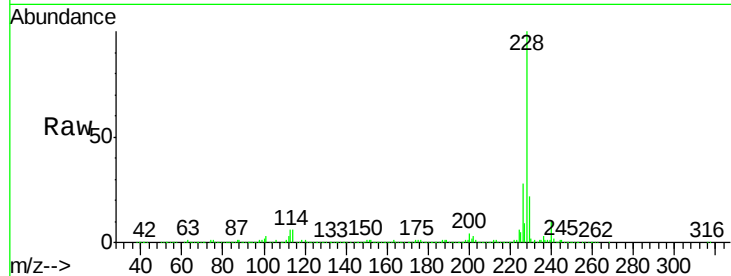
Tot Ion:240 Resp: 112697

Ion Ratio Lower Upper

240 100

120 12.2 5.7 8.5#

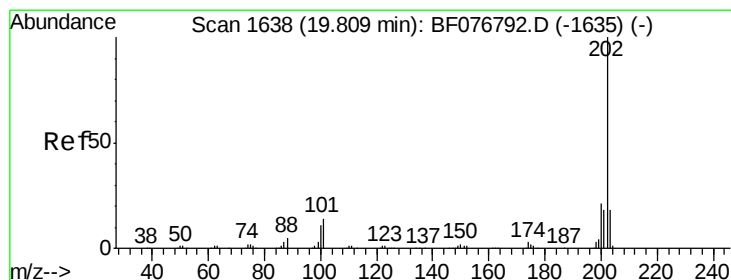
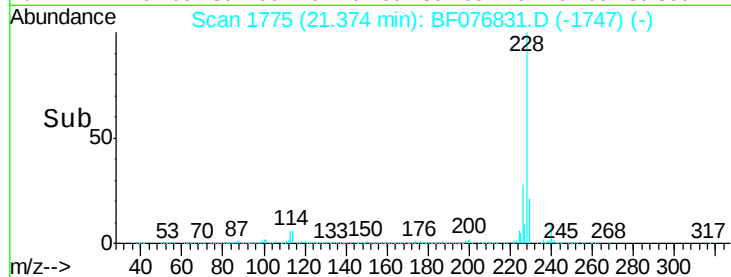
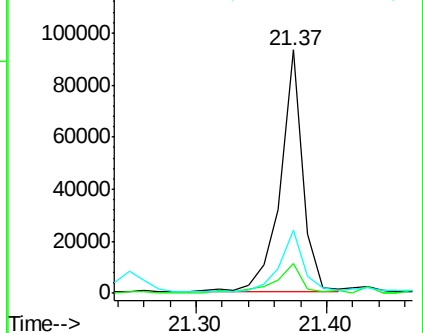
236 25.9 19.7 29.5



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: 567.01 ng

RT: 19.85 min Scan# 1642

Delta R.T. 0.05 min

Lab File: BF076831.D

Acq: 13 Jan 2015 5:53

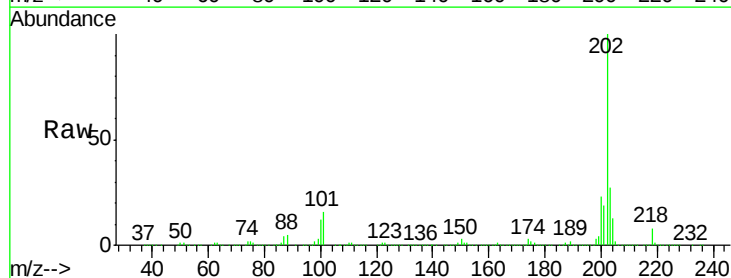
Tgt Ion:202 Resp: 4597833

Ion Ratio Lower Upper

202 100

200 23.0 16.6 25.0

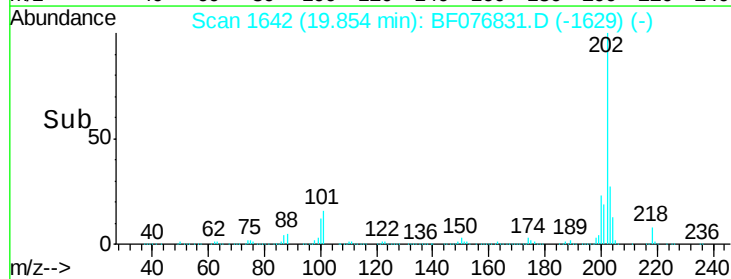
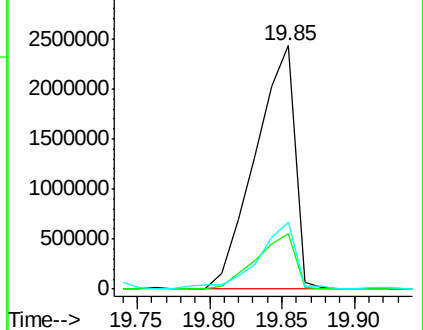
203 27.3 14.6 22.0#

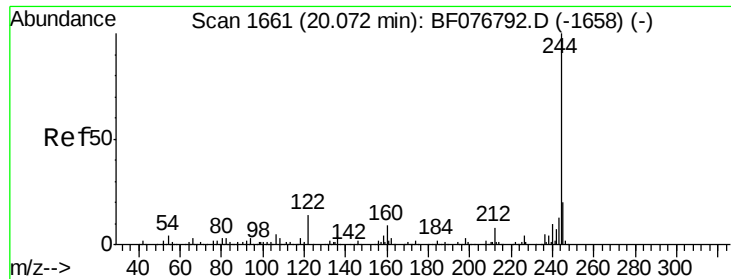


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 11.41 ng

RT: 20.08 min Scan# 1662

Delta R.T. 0.01 min

Lab File: BF076831.D

Acq: 13 Jan 2015 5:53

Instrument :

BNA_F

ClientSampleId :

TP3-SS-3(7-7.5)

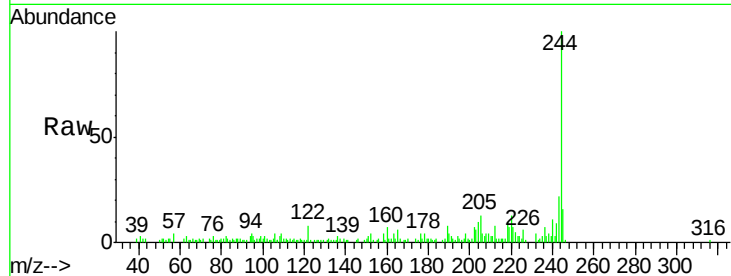
Tot Ion:244 Resp: 58582

Ion Ratio Lower Upper

244 100

212 7.6 6.2 9.2

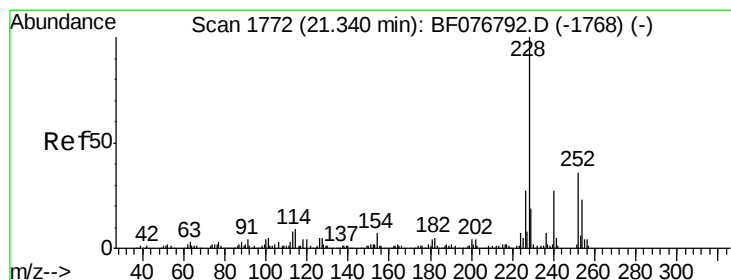
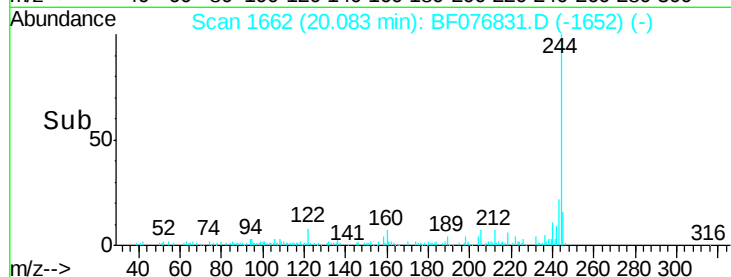
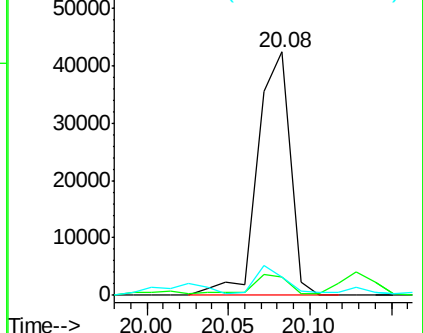
122 7.8 11.3 16.9#



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: 408.67 ng

RT: 21.36 min Scan# 1774

Delta R.T. 0.02 min

Lab File: BF076831.D

Acq: 13 Jan 2015 5:53

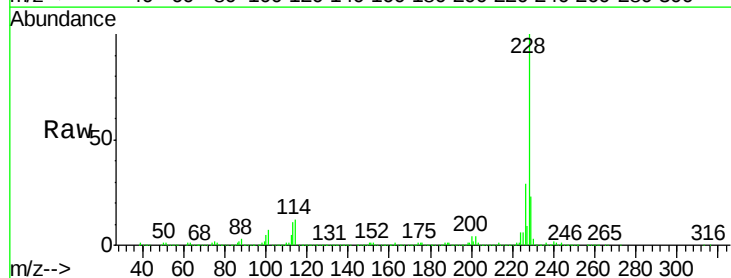
Tgt Ion:228 Resp: 2933980

Ion Ratio Lower Upper

228 100

226 28.5 21.4 32.0

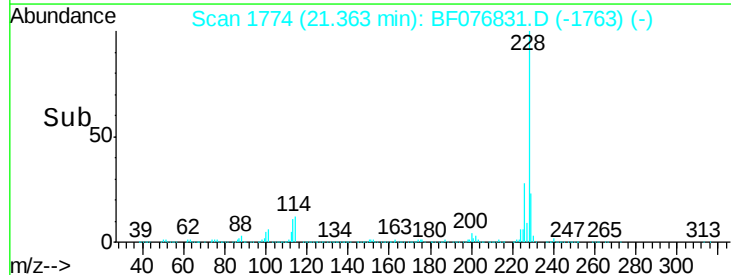
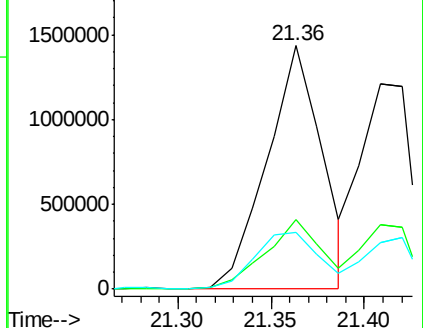
229 23.2 15.0 22.4#

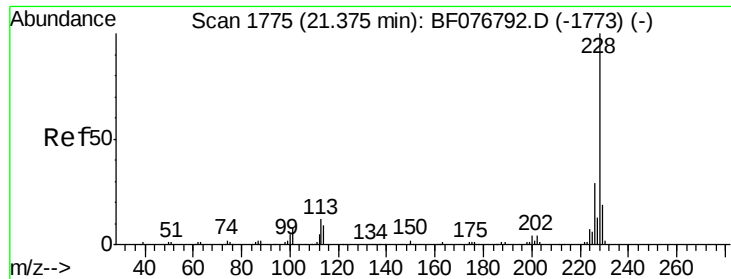


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 332.17 ng

RT: 21.41 min Scan# 1778

Delta R.T. 0.03 min

Lab File: BF076831.D

Acq: 13 Jan 2015 5:53

Instrument :

BNA_F

ClientSampleId :

TP3-SS-3(7-7.5)

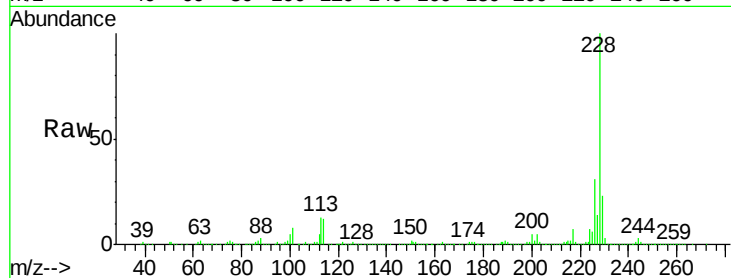
Tot Ion:228 Resp: 2157733

Ion Ratio Lower Upper

228 100

226 31.2 23.3 34.9

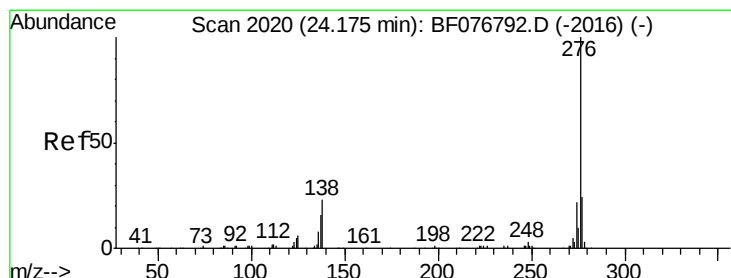
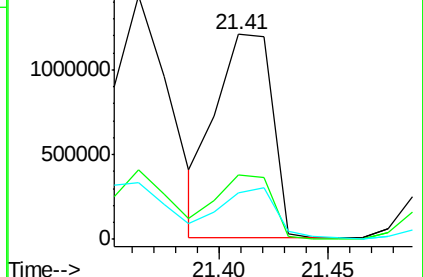
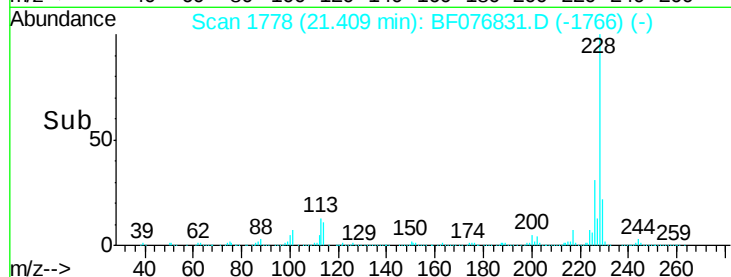
229 22.6 14.6 22.0#



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: 193.73 ng m

RT: 24.17 min Scan# 2020

Delta R.T. -0.00 min

Lab File: BF076831.D

Acq: 13 Jan 2015 5:53

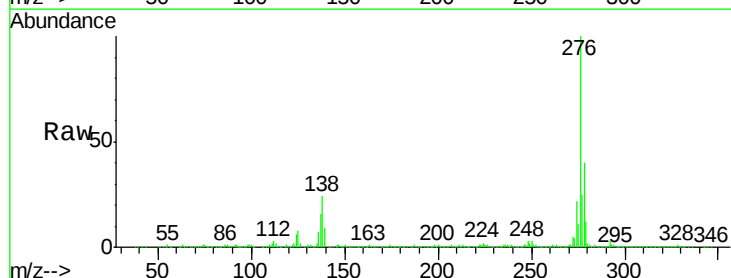
Tgt Ion:276 Resp: 1245353

Ion Ratio Lower Upper

276 100

138 22.5 0.0 0.0#

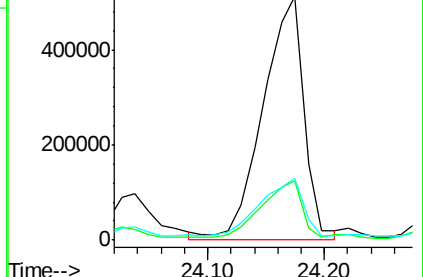
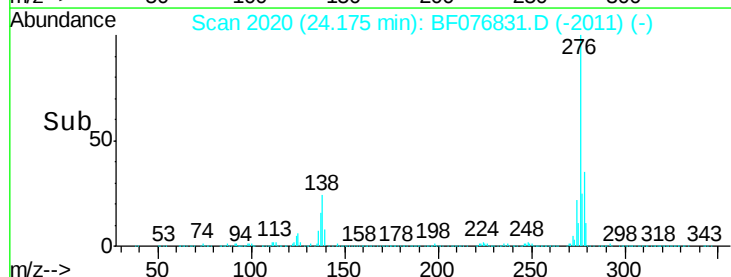
277 21.9 0.0 0.0#

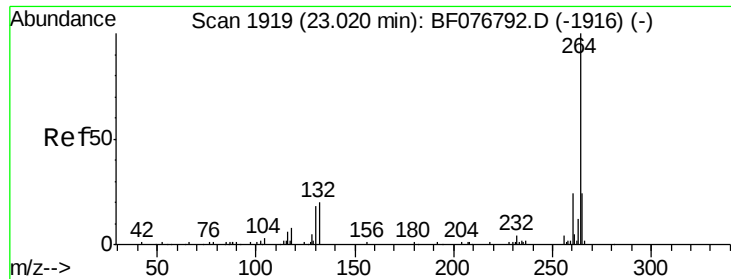


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



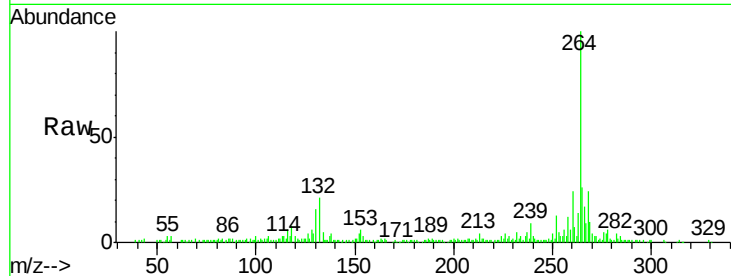


#86
Pervlene-d12
Concen: 20.00 ng
RT: 23.02 min Scan# 1919
Delta R.T. -0.00 min
Lab File: BF076831.D
Acq: 13 Jan 2015 5:53

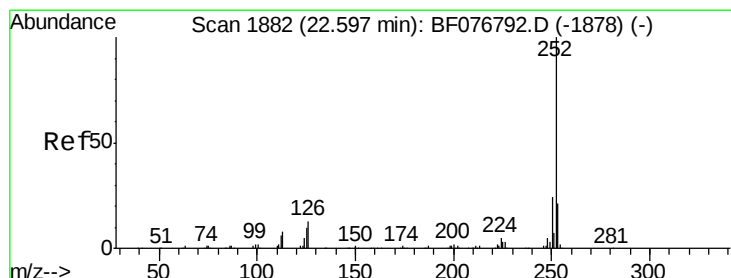
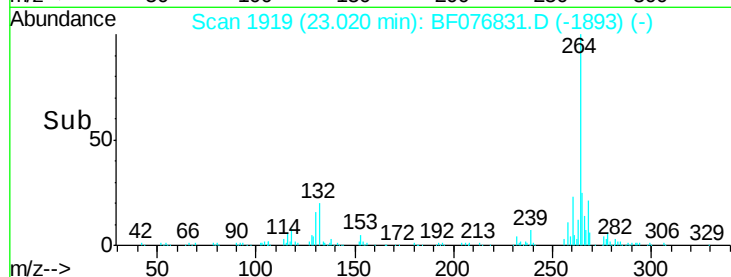
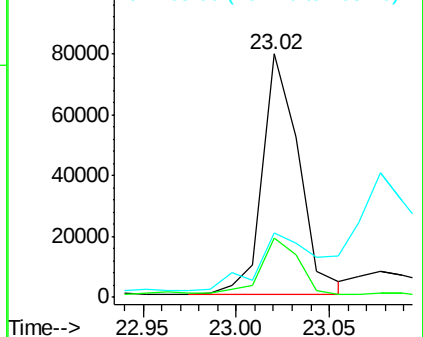
Instrument :
BNA_F
ClientSampleId :
TP3-SS-3(7-7.5)

Tot Ion:264 Resp: 107305

Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.4	29.0
265	26.4	18.9	28.3



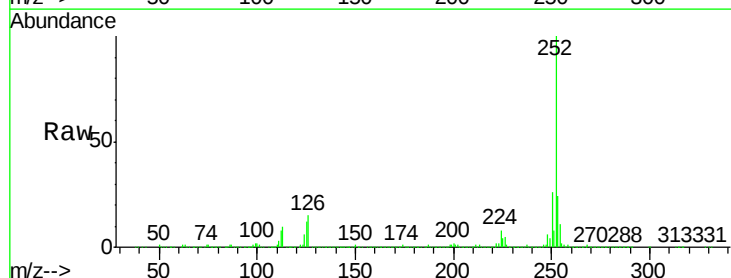
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



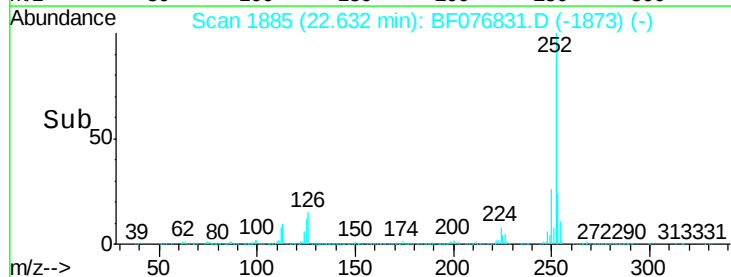
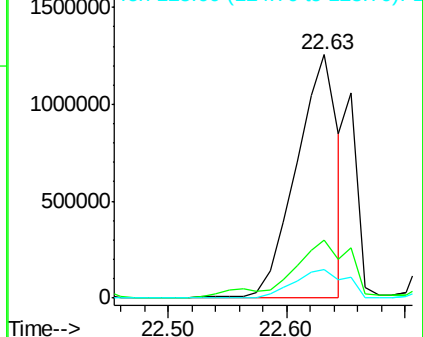
#87
Benzo(b)fluoranthene
Concen: 405.78 ng
RT: 22.63 min Scan# 1885
Delta R.T. 0.03 min
Lab File: BF076831.D
Acq: 13 Jan 2015 5:53

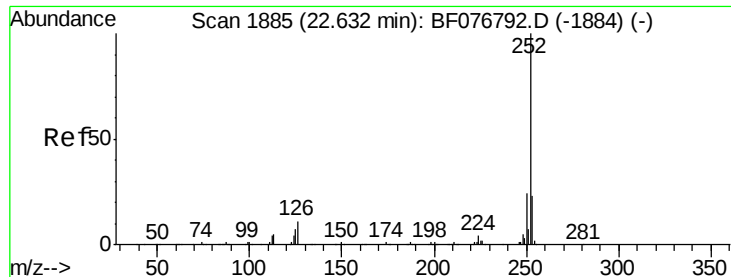
Tgt Ion:252 Resp: 3016017

Ion	Ratio	Lower	Upper
252	100		
253	23.9	16.6	25.0
125	12.0	8.1	12.1



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: 117.37 ng/mL

RT: 22.65 min Scan# 1887

Delta R.T. 0.02 min

Lab File: BF076831.D

Acq: 13 Jan 2015 5:53

Instrument :

BNA_F

ClientSampleId :

TP3-SS-3(7-7.5)

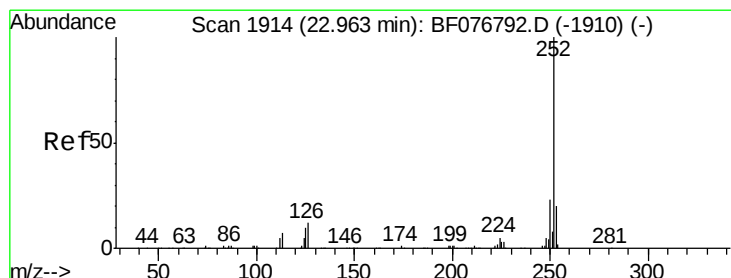
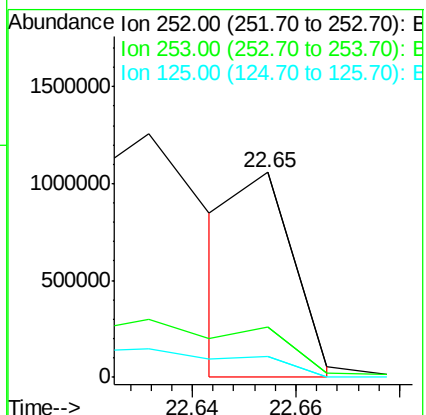
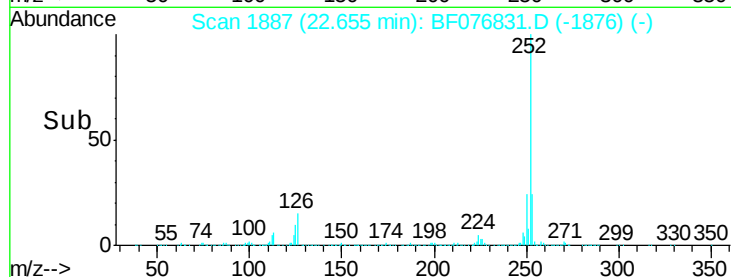
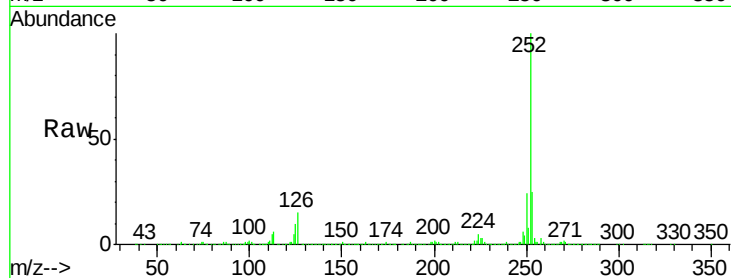
Tot Ion:252 Resp: 762556

Ion Ratio Lower Upper

252 100

253 24.7 17.7 26.5

125 10.0 7.5 11.3



#89

Benzo(a)pyrene

Concen: 307.05 ng/mL

RT: 22.99 min Scan# 1916

Delta R.T. 0.02 min

Lab File: BF076831.D

Acq: 13 Jan 2015 5:53

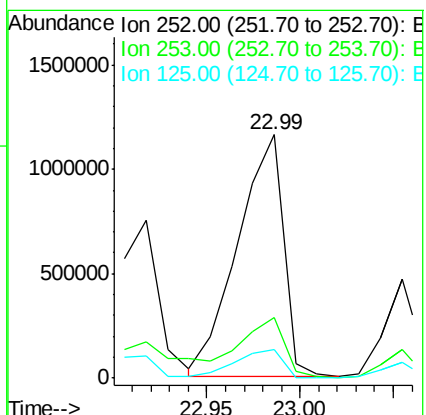
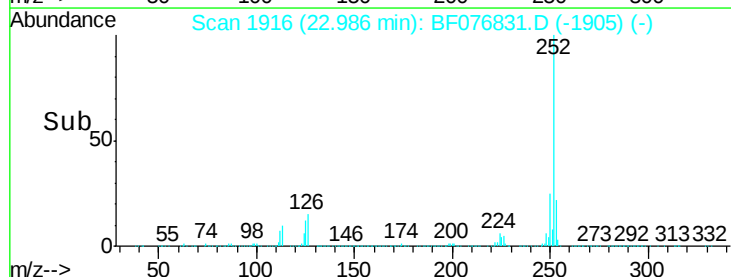
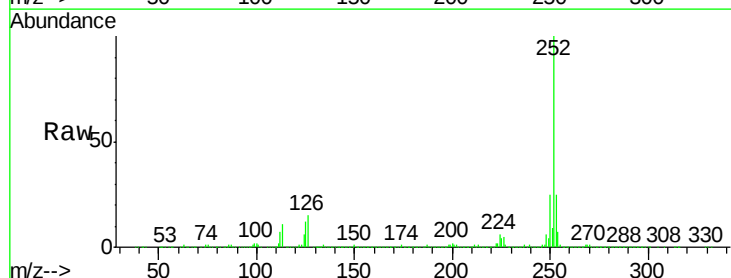
Tgt Ion:252 Resp: 1961151

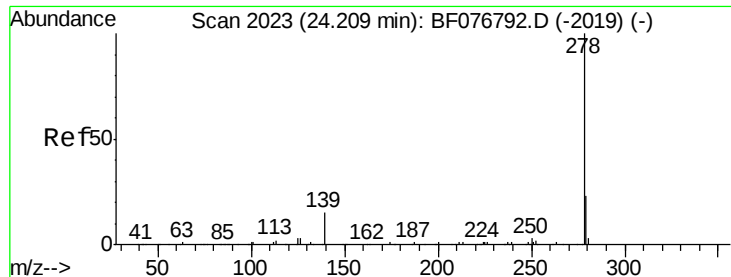
Ion Ratio Lower Upper

252 100

253 24.9 16.2 24.4#

125 11.8 7.8 11.6#

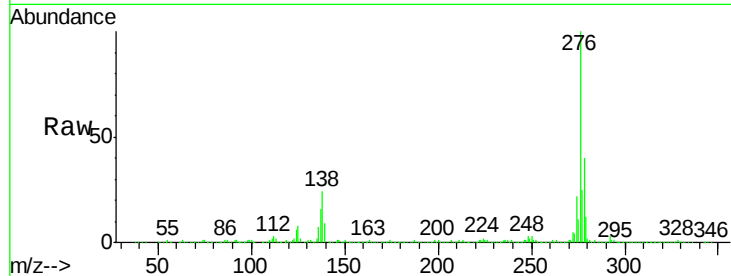




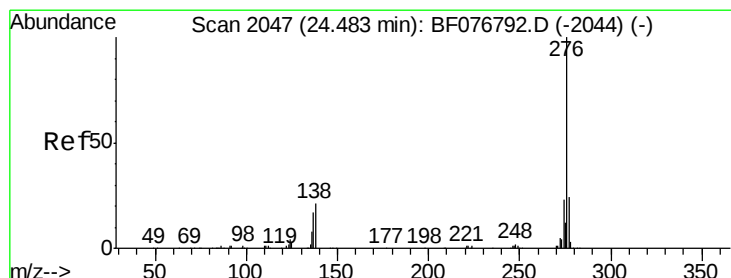
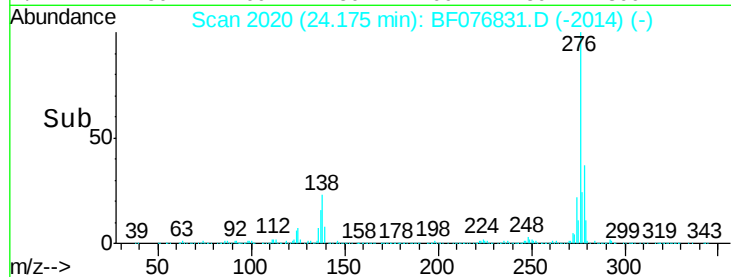
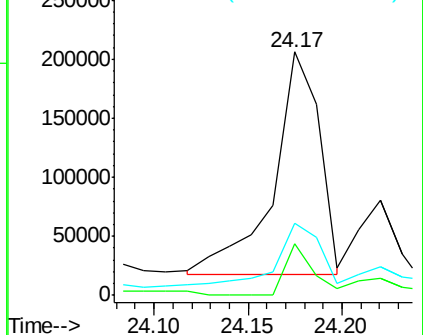
#90
Dibenzo(a,h)anthracene
Concen: 55.02 ng m
RT: 24.17 min Scan# 2020
Delta R.T. -0.03 min
Lab File: BF076831.D
Acq: 13 Jan 2015 5:53

Instrument :
BNA_F
ClientSampleId :
TP3-SS-3(7-7.5)

Tot Ion:278 Resp: 320201
Ion Ratio Lower Upper
278 100
139 21.3 12.2 18.4#
279 29.8 17.9 26.9#

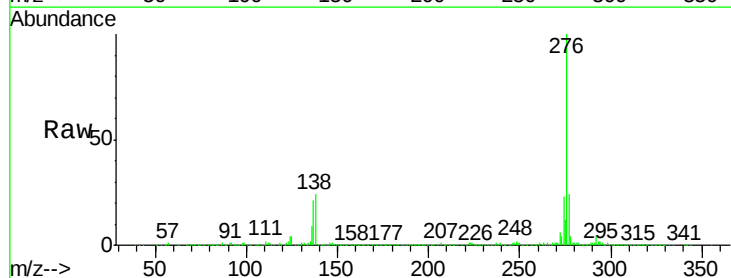


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 174.07 ng
RT: 24.48 min Scan# 2047
Delta R.T. -0.00 min
Lab File: BF076831.D
Acq: 13 Jan 2015 5:53

Tgt Ion:276 Resp: 1033807
Ion Ratio Lower Upper
276 100
277 24.4 19.0 28.6
138 24.3 16.7 25.1



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

