

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011515\
 Data File : BF076888.D
 Acq On : 15 Jan 2015 17:23
 Operator : IZ / TP
 Sample : G1030-12 5X
 Misc : S
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP4-SS-3(6-8)

Quant Time: Jan 16 10:28:09 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF011415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 15 11:52:04 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.02	152	27398	20.00	ng	0.00
21) Naphthalene-d8	10.93	136	113724	20.00	ng	0.00
38) Acenaphthene-d10	15.07	164	60360	20.00	ng	-0.01
63) Phenanthrene-d10	17.81	188	98159	20.00	ng	-0.01
75) Chrysene-d12	21.31	240	106261	20.00	ng	0.00
86) Perylene-d12	22.97	264	101608	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.10	112	40741	24.45	ng	0.01
7) Phenol-d6	7.42	99	50100	23.83	ng	0.00
23) Nitrobenzene-d5	9.32	82	30808	15.01	ng	0.00
41) 2,4,6-Tribromophenol	16.72	330	10229	20.88	ng	0.00
44) 2-Fluorobiphenyl	13.58	172	56245	14.18	ng	-0.01
78) Terphenyl-d14	20.04	244	55798	12.09	ng	0.00

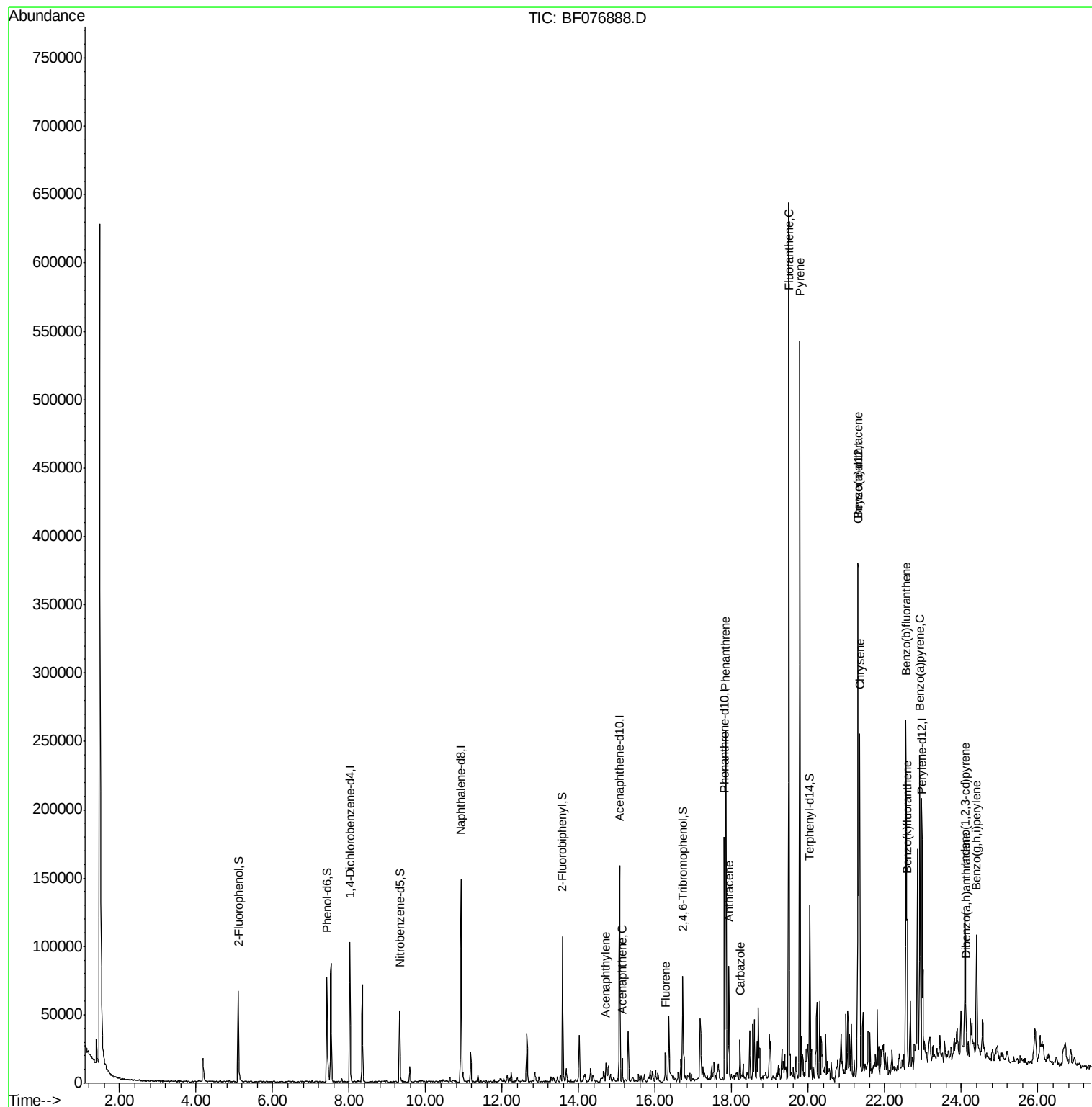
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
48) Acenaphthylene	14.71	152	13738	2.21	ng	97
51) Acenaphthene	15.13	154	7516	2.13	ng	96
57) Fluorene	16.27	166	9312	2.14	ng	# 96
70) Phenanthrene	17.84	178	146317	23.90	ng	99
71) Anthracene	17.92	178	41696	6.99	ng	98
72) Carbazole	18.21	167	14354	2.48	ng	98
74) Fluoranthene	19.49	202	285424	45.50	ng	97
77) Pyrene	19.77	202	237763	32.65	ng	# 96
80) Benzo(a)anthracene	21.29	228	143850	21.58	ng	98
82) Chrysene	21.34	228	105462	17.35	ng	96
85) Indeno(1,2,3-cd)pyrene	24.09	276	67448m	10.47	ng	
87) Benzo(b)fluoranthene	22.55	252	159245m	23.27	ng	
88) Benzo(k)fluoranthene	22.59	252	36108m	6.04	ng	
89) Benzo(a)pyrene	22.91	252	101185	16.76	ng	# 97
90) Dibenzo(a,h)anthracene	24.12	278	13684m	2.47	ng	
91) Benzo(g,h,i)perylene	24.39	276	56883	10.33	ng	# 93

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

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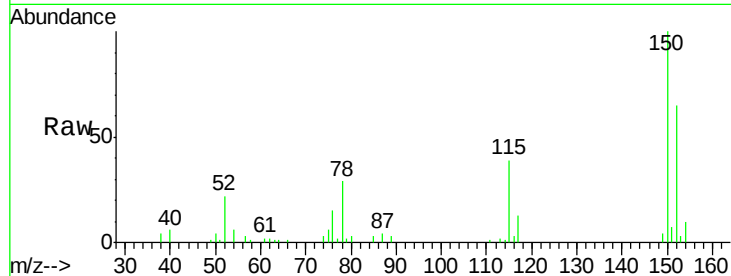


#1

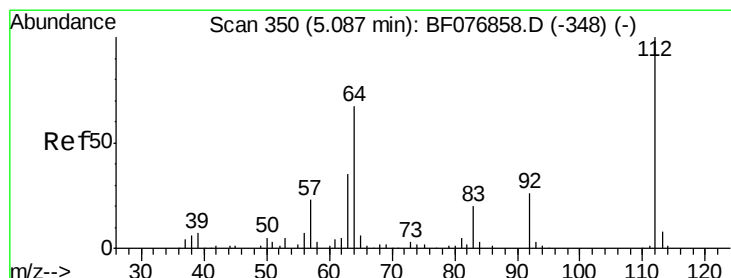
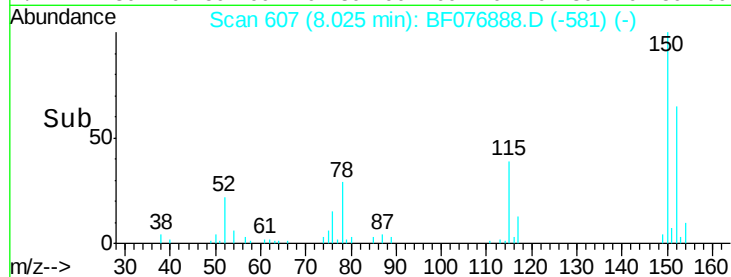
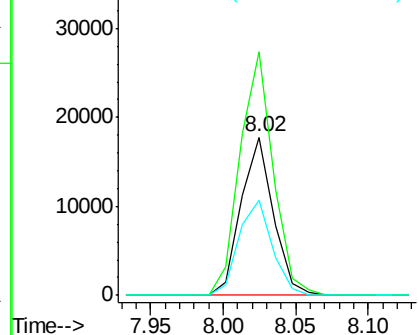
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.02 min Scan# 607
Delta R.T. 0.00 min
Lab File: BF076888.D
Acq: 15 Jan 2015 17:23

Instrument :
BNA_F
ClientSampleId :
TP4-SS-3(6-8)

Tot Ion:152 Resp: 27398
Ion Ratio Lower Upper
152 100
150 154.1 121.7 182.5
115 60.0 47.0 70.6



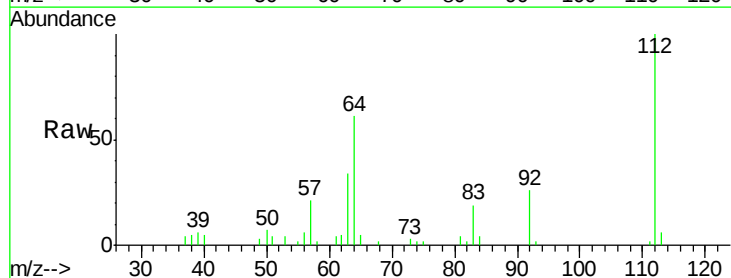
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



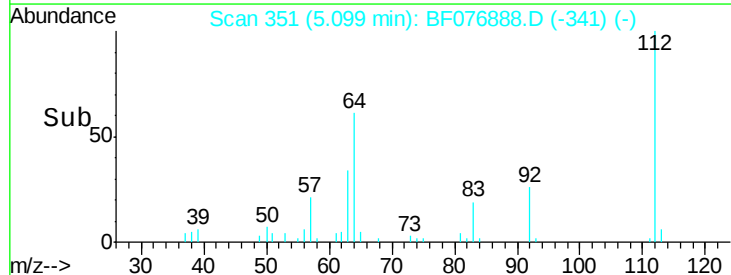
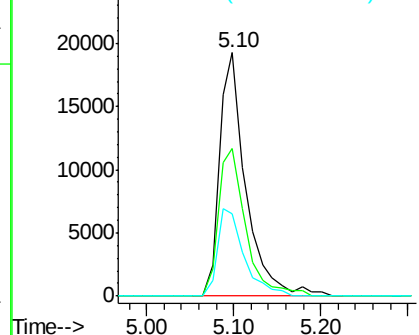
#5

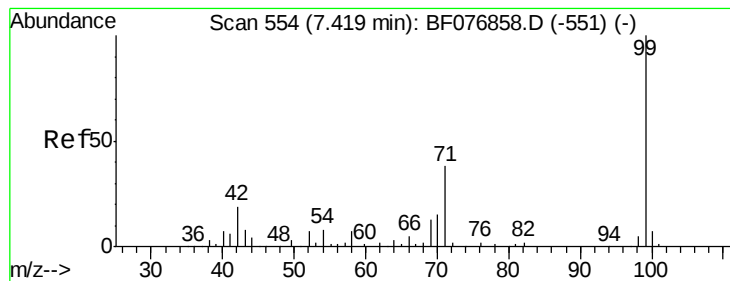
2-Fluorophenol
Concen: 24.45 ng
RT: 5.10 min Scan# 351
Delta R.T. 0.01 min
Lab File: BF076888.D
Acq: 15 Jan 2015 17:23

Tgt Ion:112 Resp: 40741
Ion Ratio Lower Upper
112 100
64 60.5 54.2 81.4
63 33.9 28.4 42.6



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: 23.83 ng

RT: 7.42 min Scan# 554

Delta R.T. 0.00 min

Lab File: BF076888.D

Acq: 15 Jan 2015 17:23

Instrument :

BNA_F

ClientSampleId :

TP4-SS-3(6-8)

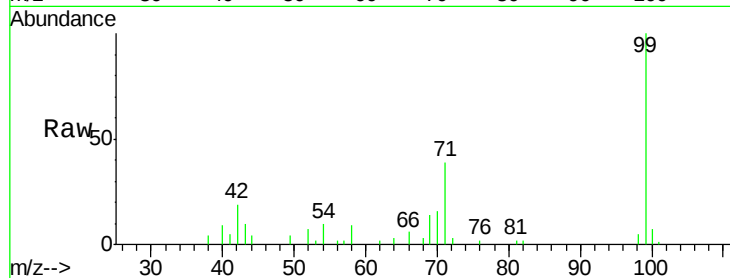
Tot Ion: 99 Resp: 50100

Ion Ratio Lower Upper

99 100

42 19.1 15.0 22.4

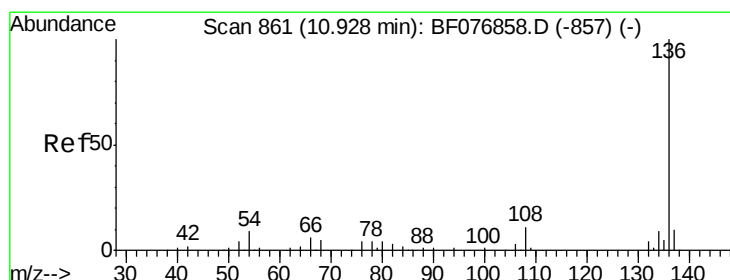
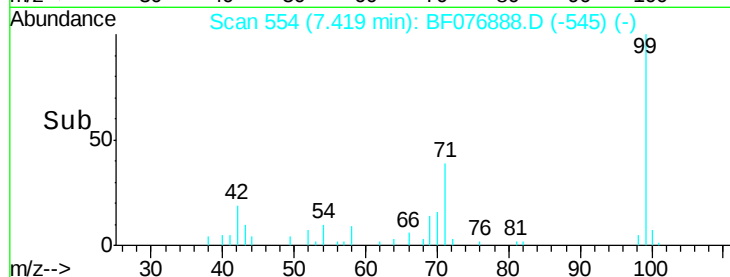
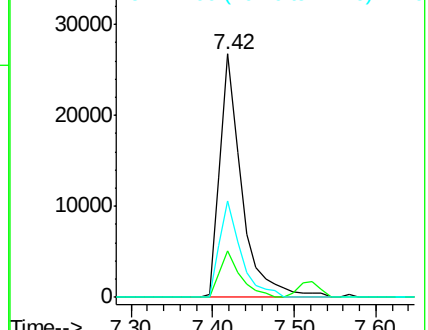
71 39.4 30.5 45.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.93 min Scan# 861

Delta R.T. 0.00 min

Lab File: BF076888.D

Acq: 15 Jan 2015 17:23

Tgt Ion: 136 Resp: 113724

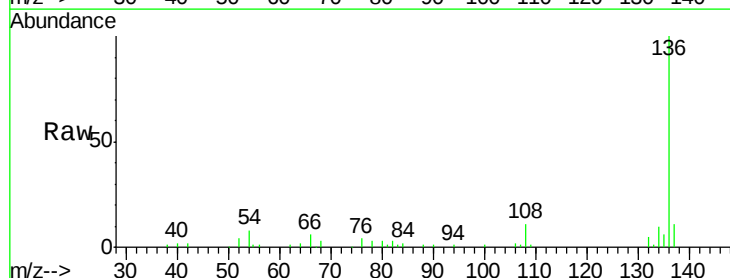
Ion Ratio Lower Upper

136 100

137 11.0 8.1 12.1

54 7.6 7.0 10.4

68 3.3 3.7 5.5#

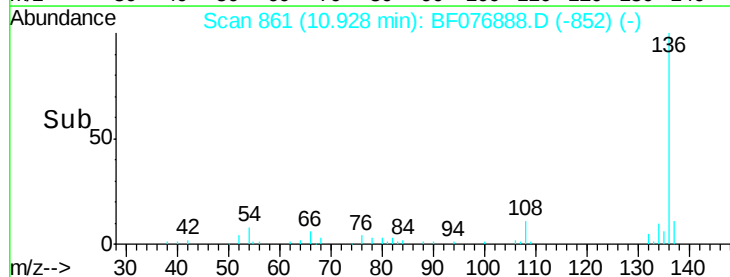
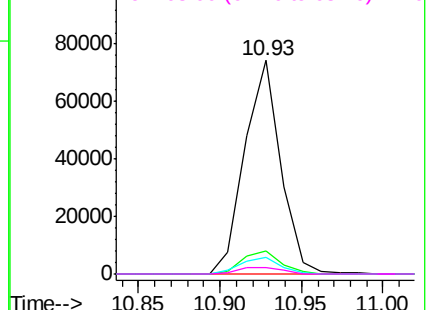


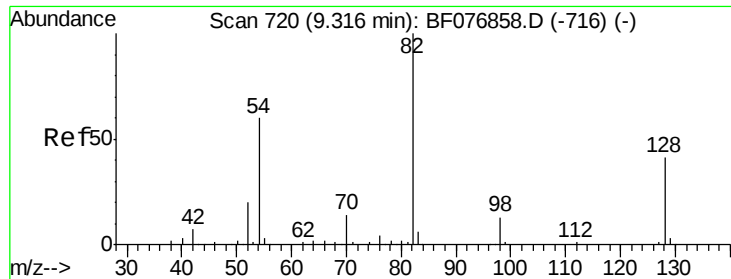
Abundance Ion 136.00 (135.70 to 136.70): E

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

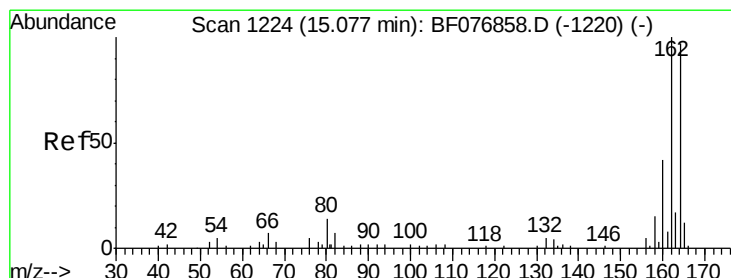
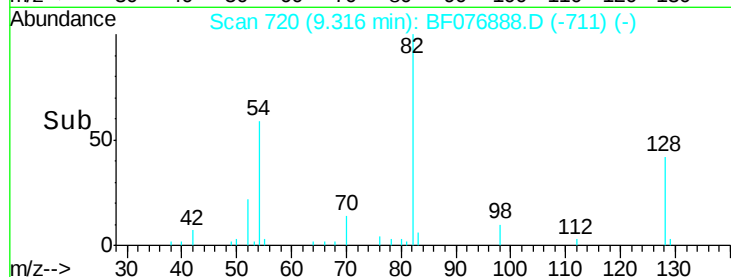
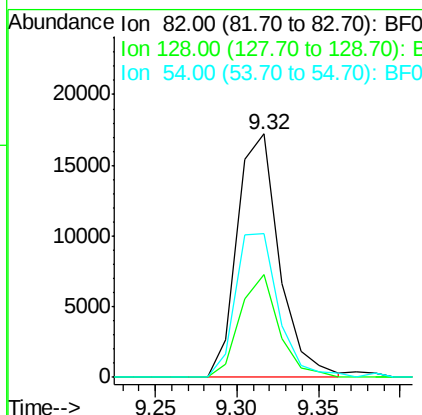
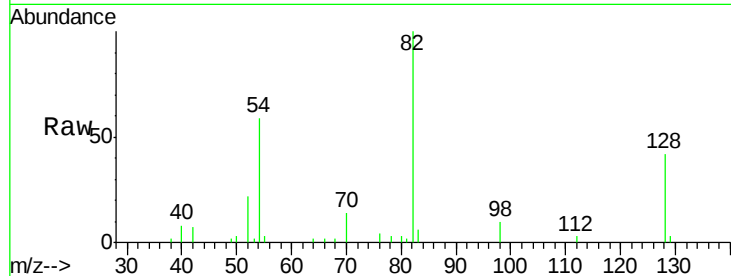




#23
 Nitrobenzene-d5
 Concen: 15.01 ng
 RT: 9.32 min Scan# 720
 Delta R.T. 0.00 min
 Lab File: BF076888.D
 Acq: 15 Jan 2015 17:23

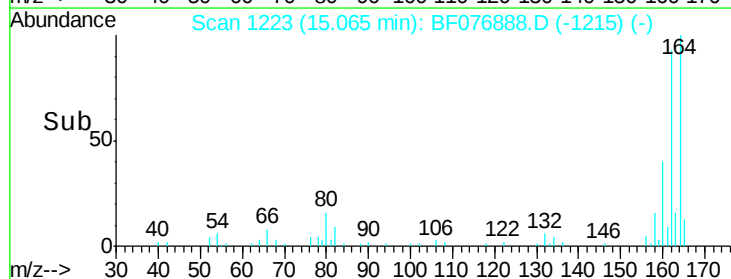
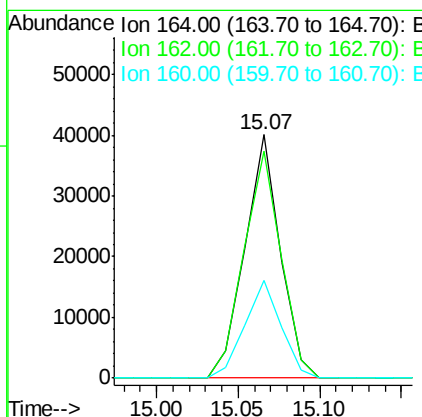
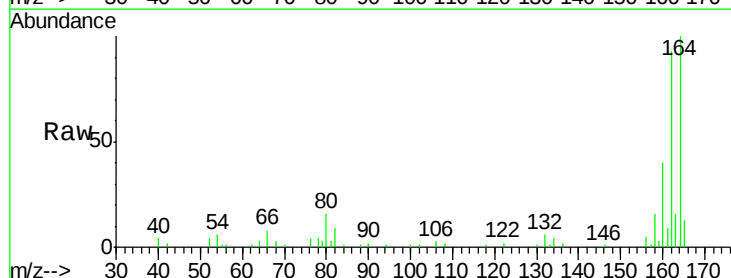
Instrument :
 BNA_F
 ClientSampleId :
 TP4-SS-3(6-8)

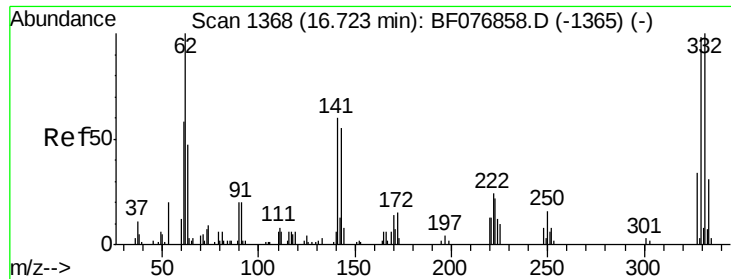
Tot Ion	82	Resp	30808
Ion Ratio	Lower	Upper	
82	100		
128	42.4	33.1	49.7
54	59.2	48.3	72.5



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 15.07 min Scan# 1223
 Delta R.T. -0.01 min
 Lab File: BF076888.D
 Acq: 15 Jan 2015 17:23

Tgt Ion	164	Resp	60360
Ion Ratio	Lower	Upper	
164	100		
162	93.1	82.4	123.6
160	40.2	34.8	52.2





#41

2,4,6-Tribromophenol

Concen: 20.88 ng

RT: 16.72 min Scan# 1368

Delta R.T. 0.00 min

Lab File: BF076888.D

Acq: 15 Jan 2015 17:23

Instrument :

BNA_F

ClientSampleId :

TP4-SS-3(6-8)

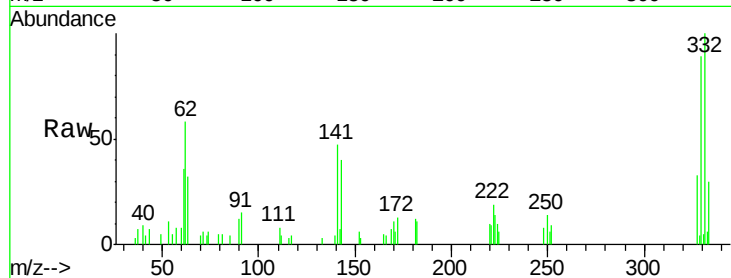
Tot Ion:330 Resp: 10229

Ion Ratio Lower Upper

330 100

332 106.6 77.8 116.6

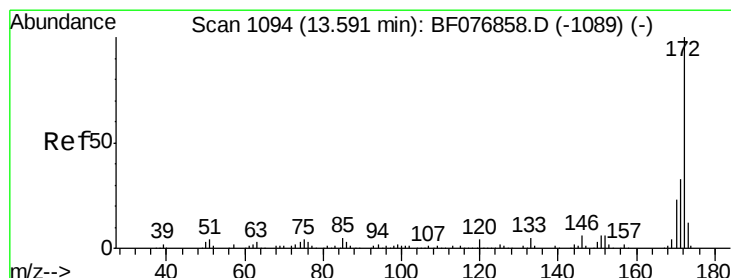
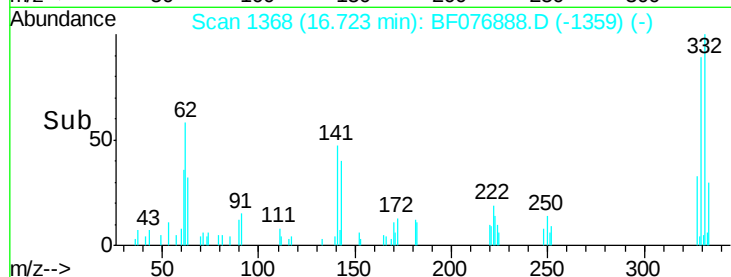
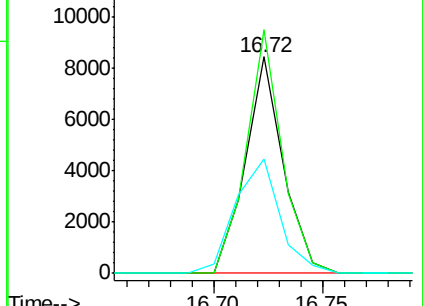
141 62.2 38.5 57.7#



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: 14.18 ng

RT: 13.58 min Scan# 1093

Delta R.T. -0.01 min

Lab File: BF076888.D

Acq: 15 Jan 2015 17:23

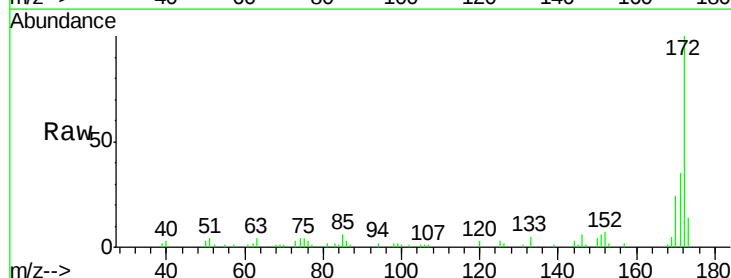
Tgt Ion:172 Resp: 56245

Ion Ratio Lower Upper

172 100

171 34.6 26.6 40.0

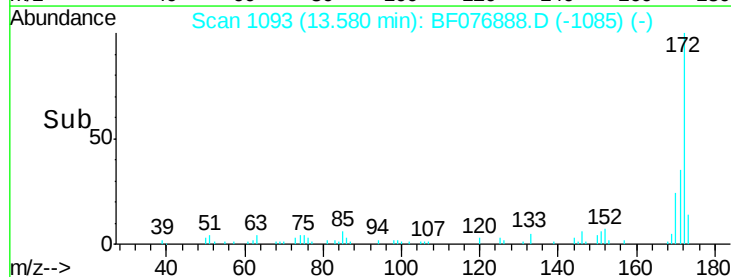
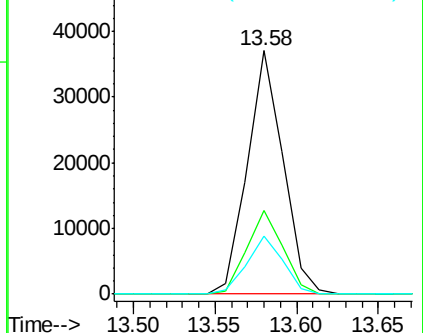
170 24.0 18.0 27.0

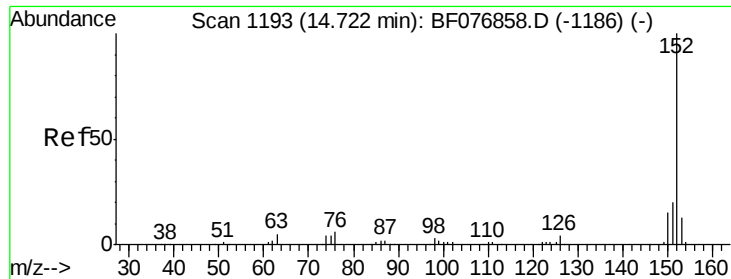


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 2.21 ng

RT: 14.71 min Scan# 1192

Delta R.T. -0.01 min

Lab File: BF076888.D

Acq: 15 Jan 2015 17:23

Instrument :

BNA_F

ClientSampleId :

TP4-SS-3(6-8)

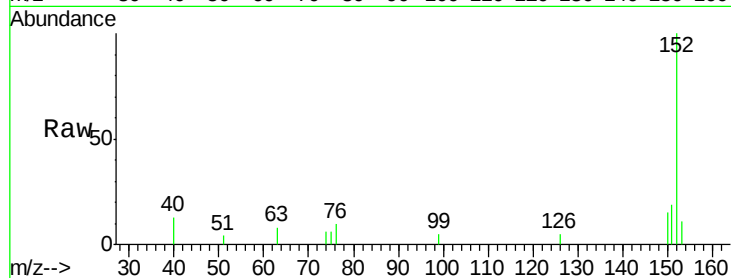
Tot Ion:152 Resp: 13738

Ion Ratio Lower Upper

152 100

151 18.9 15.9 23.9

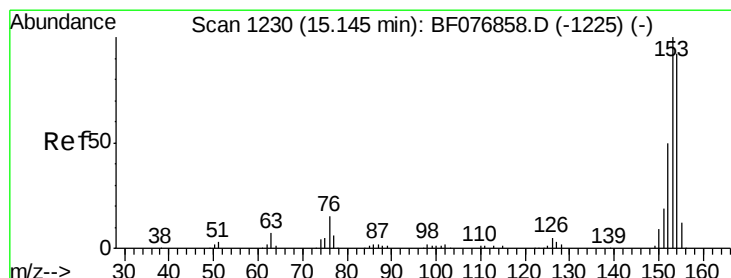
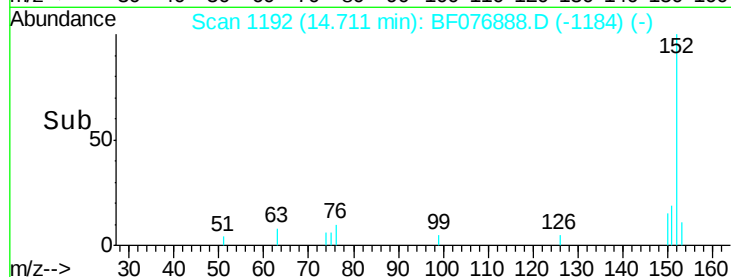
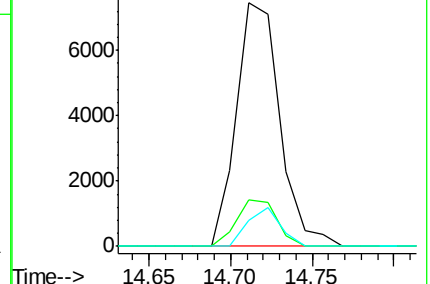
153 10.8 10.2 15.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#51

Acenaphthene

Concen: 2.13 ng

RT: 15.13 min Scan# 1229

Delta R.T. -0.01 min

Lab File: BF076888.D

Acq: 15 Jan 2015 17:23

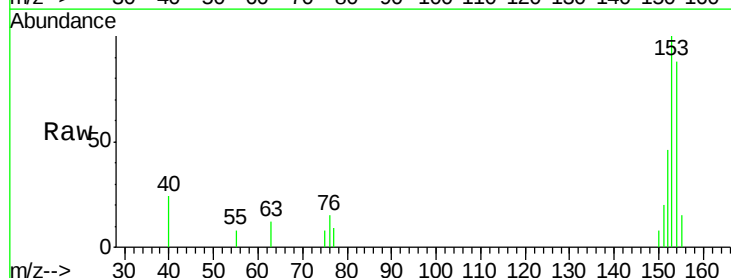
Tgt Ion:154 Resp: 7516

Ion Ratio Lower Upper

154 100

153 113.5 87.0 130.6

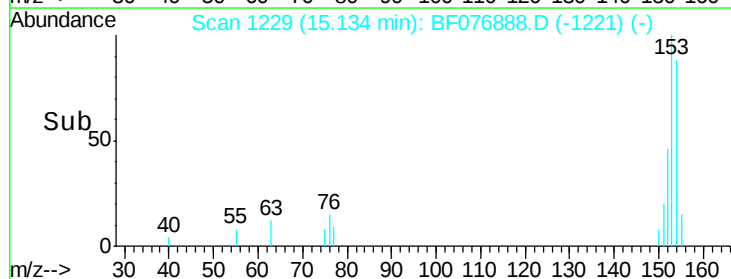
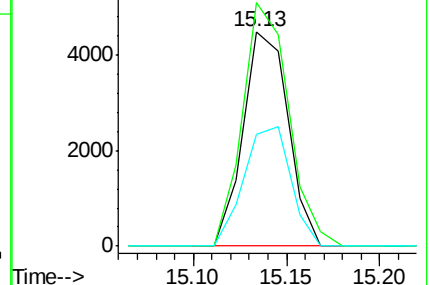
152 52.4 43.5 65.3

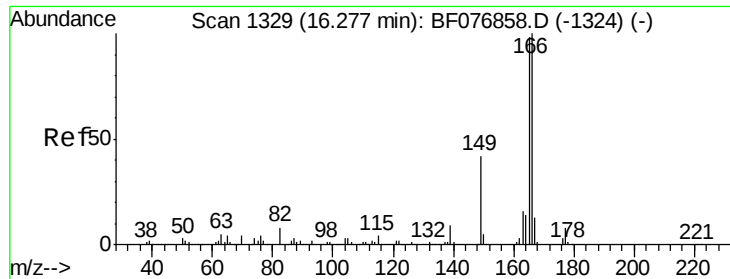


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

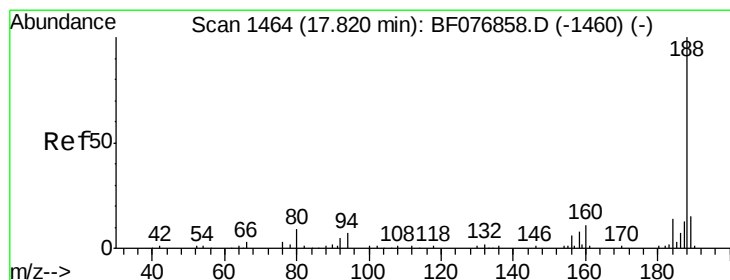
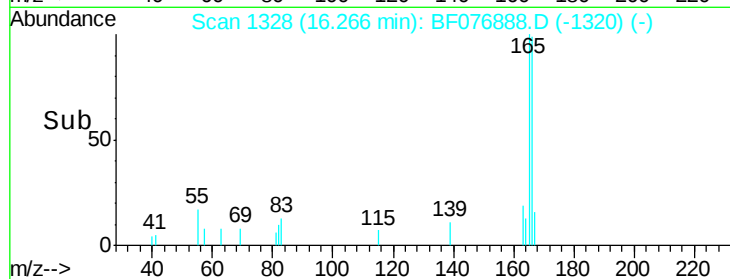
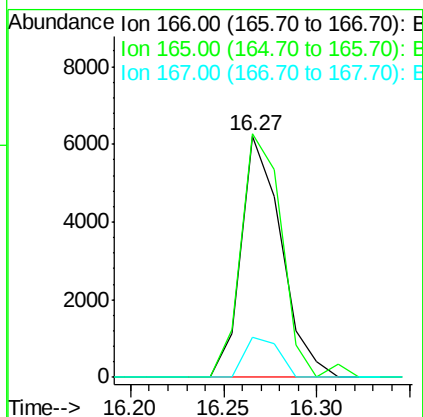
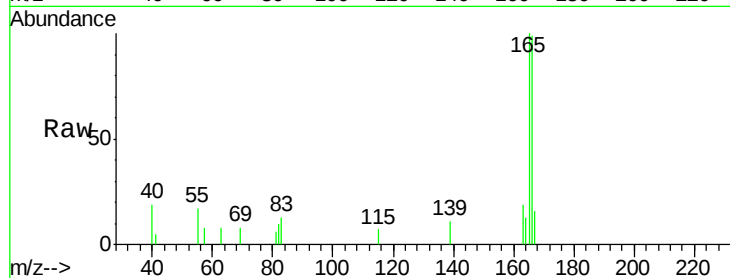




#57
 Fluorene
 Concen: 2.14 ng
 RT: 16.27 min Scan# 1328
 Delta R.T. -0.01 min
 Lab File: BF076888.D
 Acq: 15 Jan 2015 17:23

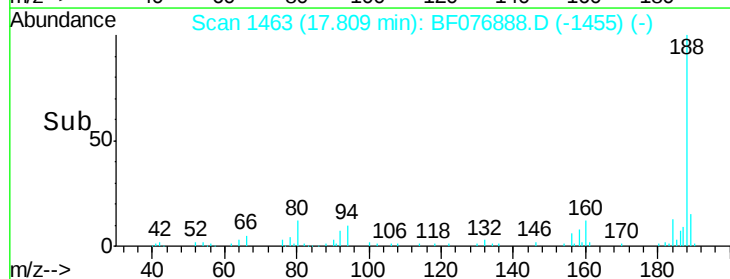
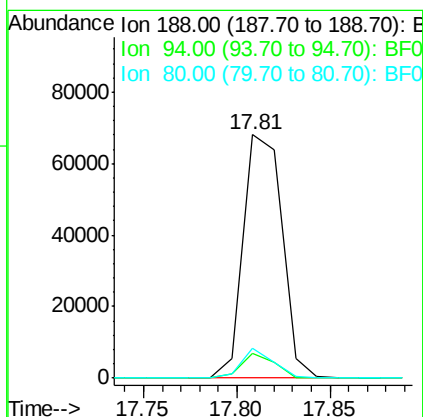
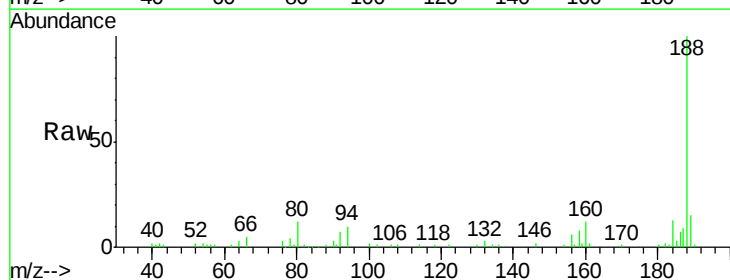
Instrument :
 BNA_F
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 TP4-SS-3(6-8)

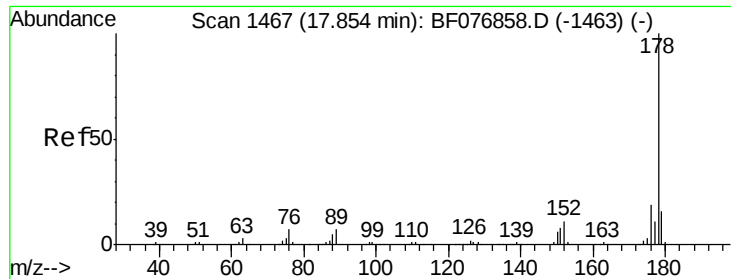
Tot Ion:166 Resp: 9312
 Ion Ratio Lower Upper
 166 100
 165 100.9 78.5 117.7
 167 16.4 10.4 15.6#



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 17.81 min Scan# 1463
 Delta R.T. -0.01 min
 Lab File: BF076888.D
 Acq: 15 Jan 2015 17:23

Tgt Ion:188 Resp: 98159
 Ion Ratio Lower Upper
 188 100
 94 10.2 6.0 9.0#
 80 12.1 6.9 10.3#

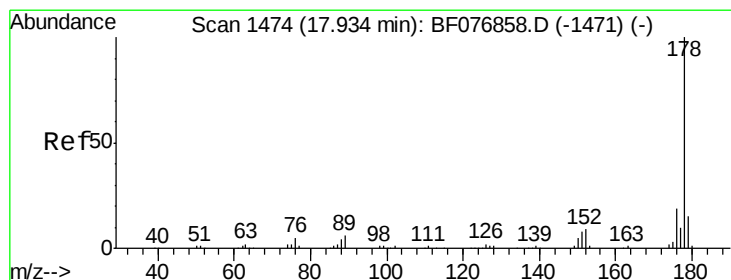
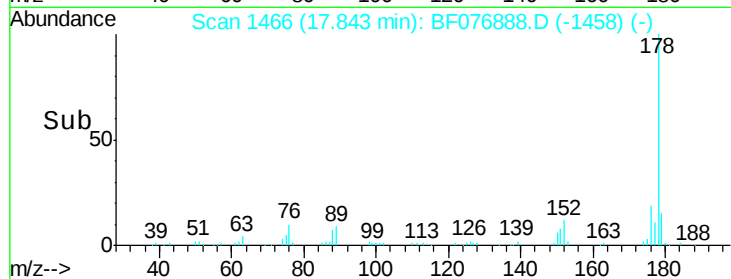
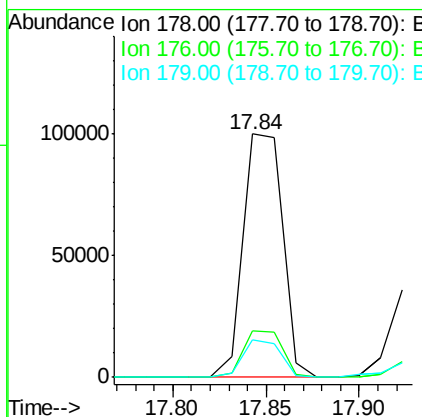
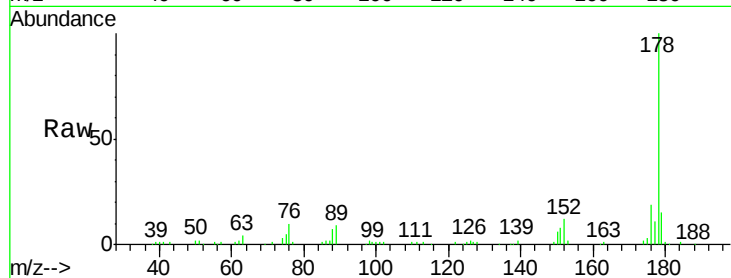




#70
 Phenanthrene
 Concen: 23.90 ng
 RT: 17.84 min Scan# 1466
 Delta R.T. -0.01 min
 Lab File: BF076888.D
 Acq: 15 Jan 2015 17:23

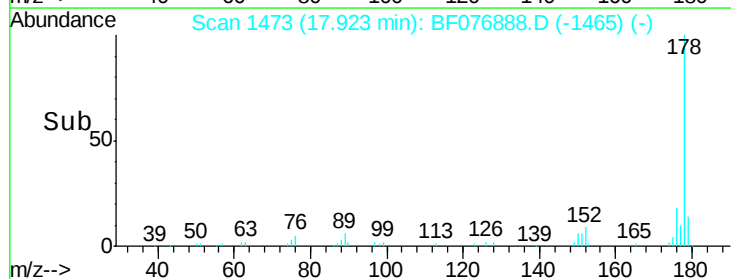
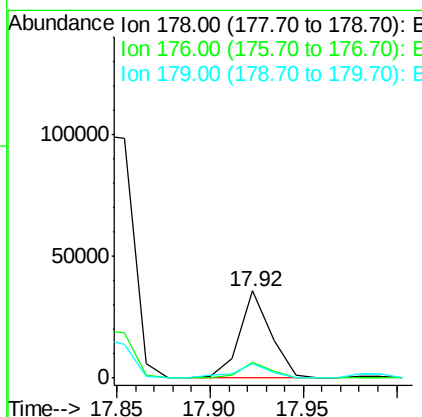
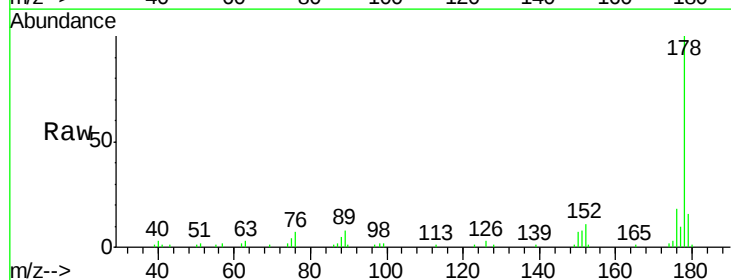
Instrument :
 BNA_F
 ClientSampleId :
 TP4-SS-3(6-8)

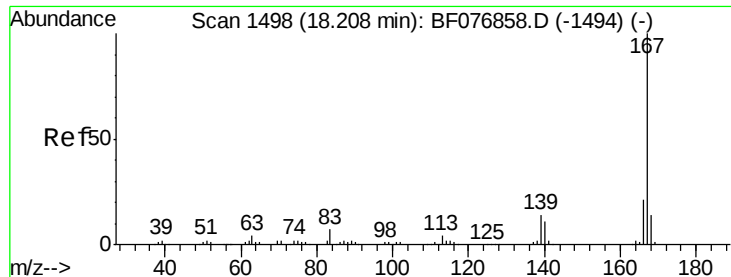
Tot Ion:178 Resp: 146317
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.1 22.7
 179 15.2 12.7 19.1



#71
 Anthracene
 Concen: 6.99 ng
 RT: 17.92 min Scan# 1473
 Delta R.T. -0.01 min
 Lab File: BF076888.D
 Acq: 15 Jan 2015 17:23

Tgt Ion:178 Resp: 41696
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.4 23.0
 179 16.0 11.9 17.9





#72

Carbazole

Concen: 2.48 ng

RT: 18.21 min Scan# 1498

Delta R.T. 0.00 min

Lab File: BF076888.D

Acq: 15 Jan 2015 17:23

Instrument :

BNA_F

ClientSampleId :

TP4-SS-3(6-8)

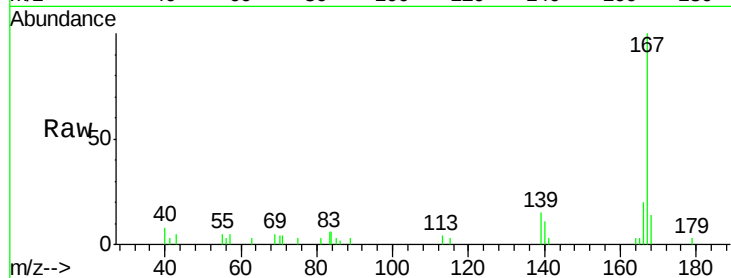
Tot Ion:167 Resp: 14354

Ion Ratio Lower Upper

167 100

166 20.0 17.0 25.6

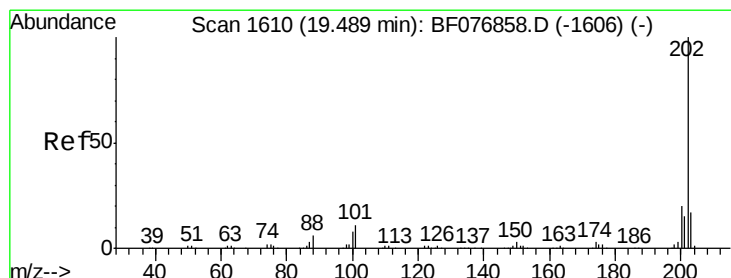
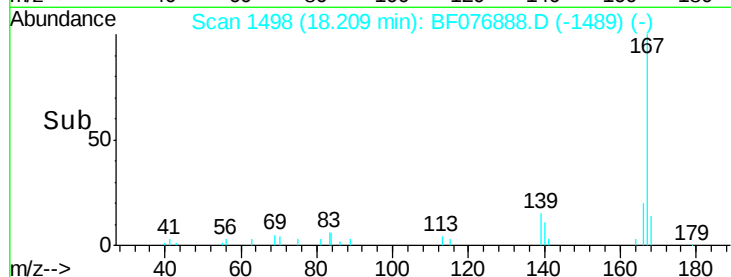
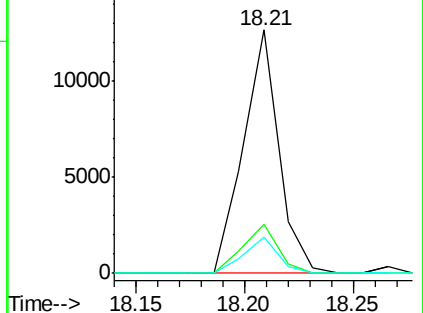
139 14.8 11.3 16.9



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: 45.50 ng

RT: 19.49 min Scan# 1610

Delta R.T. 0.00 min

Lab File: BF076888.D

Acq: 15 Jan 2015 17:23

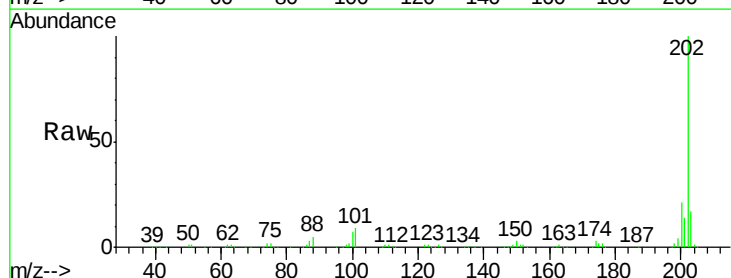
Tgt Ion:202 Resp: 285424

Ion Ratio Lower Upper

202 100

101 8.6 0.0 30.7

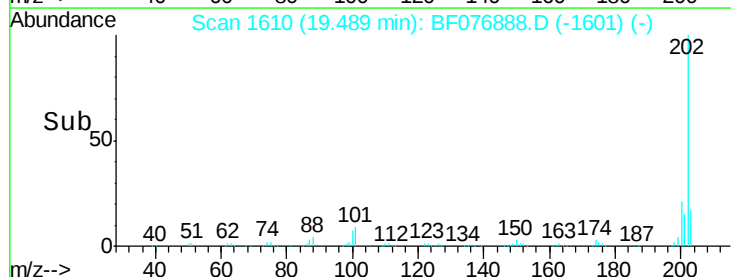
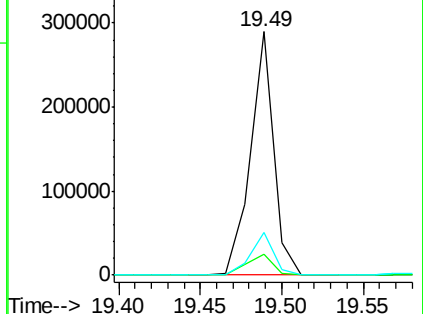
203 17.5 0.0 36.9

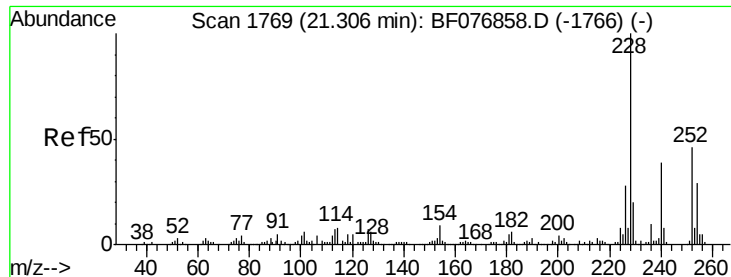


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.31 min Scan# 1769

Delta R.T. 0.00 min

Lab File: BF076888.D

Acq: 15 Jan 2015 17:23

Instrument :

BNA_F

ClientSampleId :

TP4-SS-3(6-8)

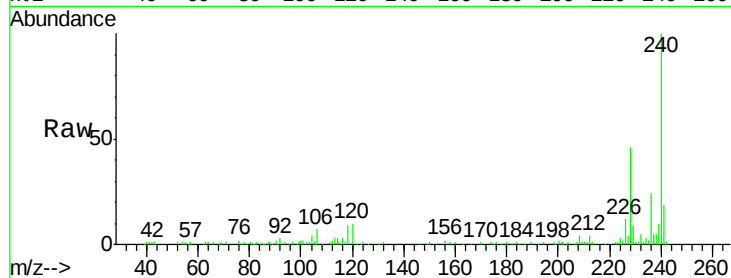
Tot Ion:240 Resp: 106261

Ion Ratio Lower Upper

240 100

120 9.8 10.4 15.6#

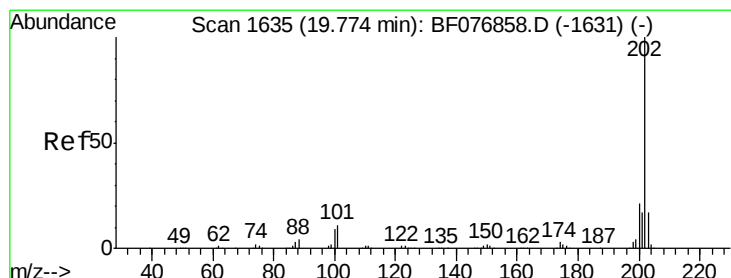
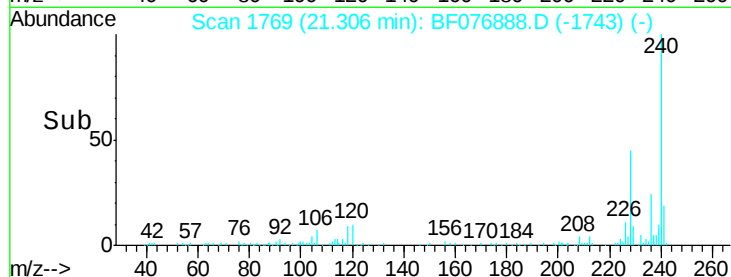
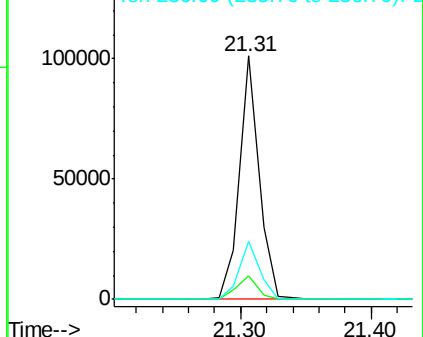
236 24.0 20.2 30.2



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: 32.65 ng

RT: 19.77 min Scan# 1635

Delta R.T. 0.00 min

Lab File: BF076888.D

Acq: 15 Jan 2015 17:23

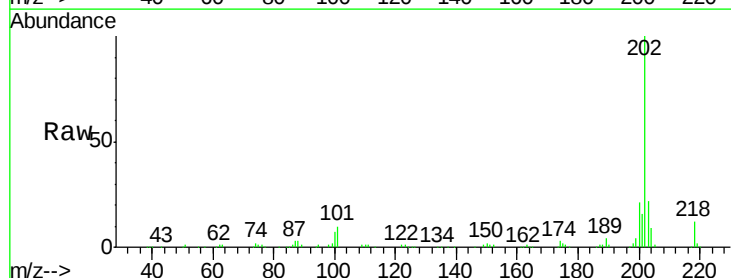
Tgt Ion:202 Resp: 237763

Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

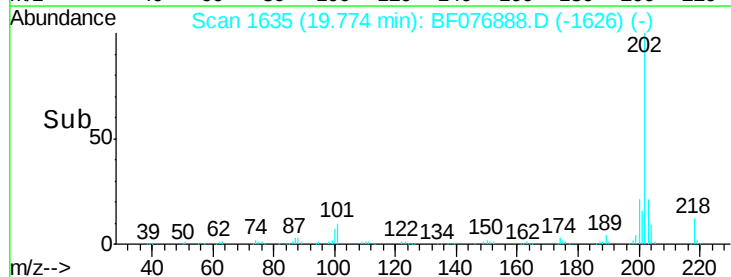
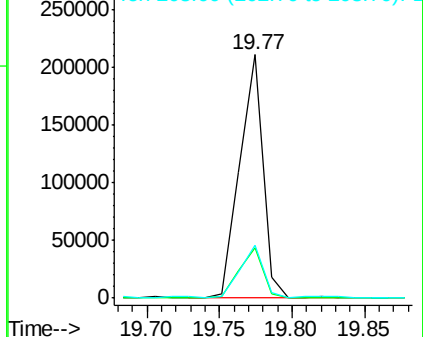
203 21.7 14.0 21.0#

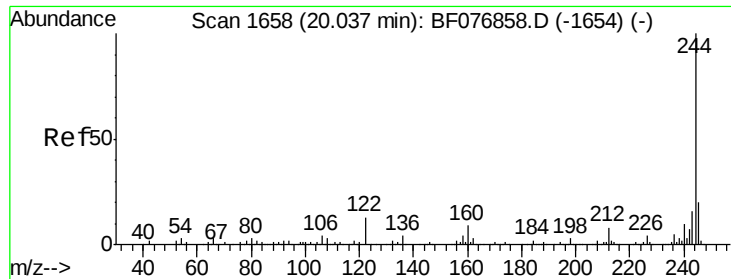


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 12.09 ng

RT: 20.04 min Scan# 1658

Delta R.T. 0.00 min

Lab File: BF076888.D

Acq: 15 Jan 2015 17:23

Instrument :

BNA_F

ClientSampleId :

TP4-SS-3(6-8)

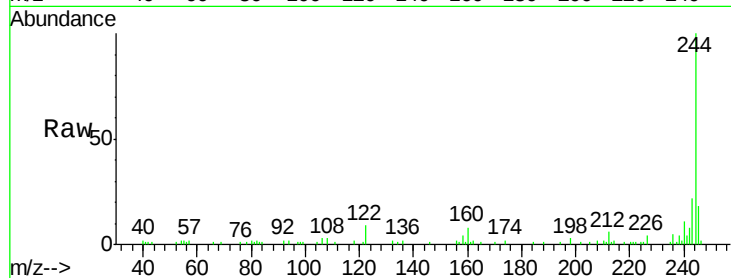
Tot Ion:244 Resp: 55798

Ion Ratio Lower Upper

244 100

212 5.8 6.3 9.5#

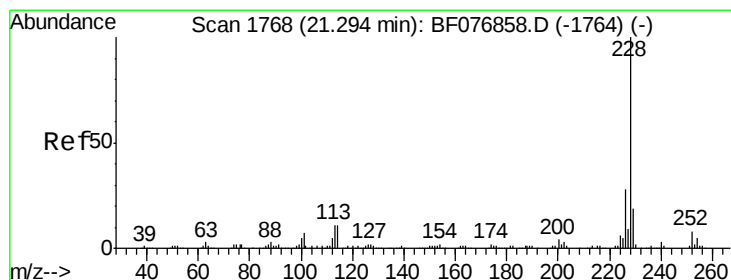
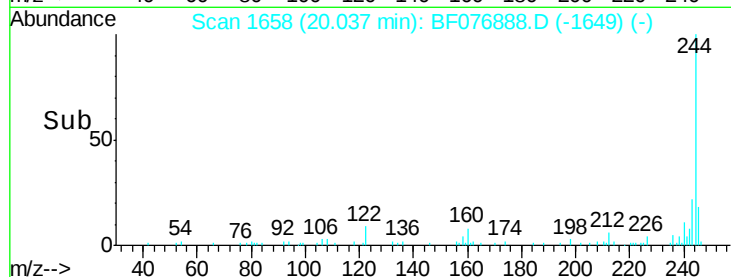
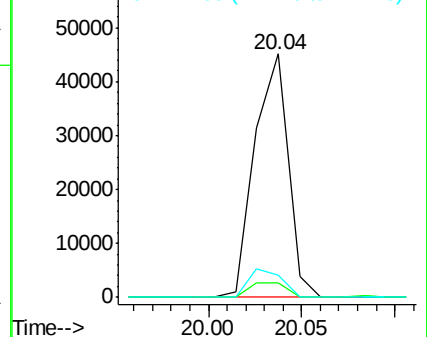
122 9.1 10.1 15.1#



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: 21.58 ng

RT: 21.29 min Scan# 1768

Delta R.T. 0.00 min

Lab File: BF076888.D

Acq: 15 Jan 2015 17:23

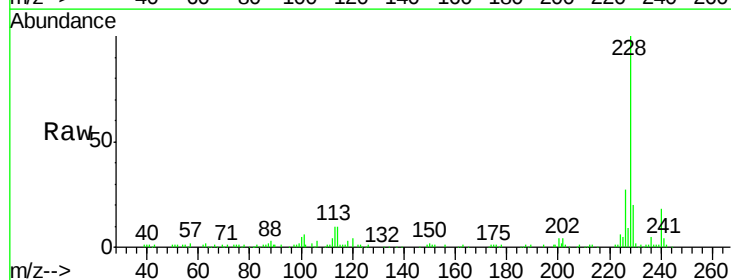
Tgt Ion:228 Resp: 143850

Ion Ratio Lower Upper

228 100

226 26.6 22.1 33.1

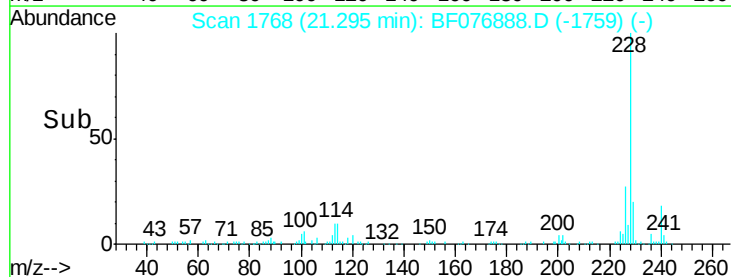
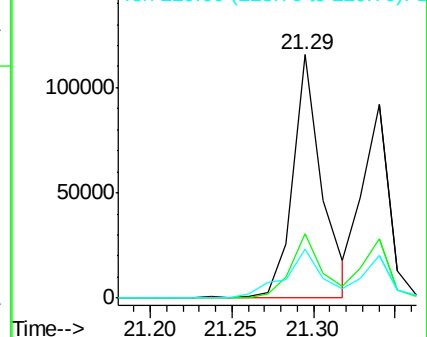
229 20.2 15.5 23.3

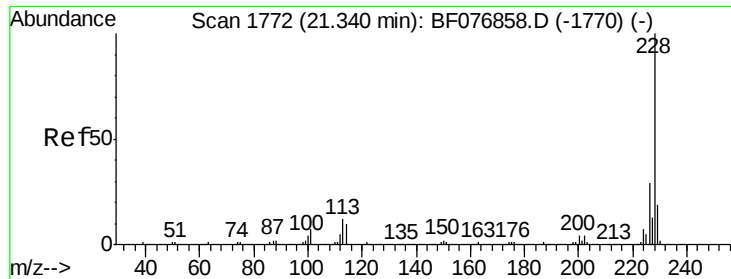


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 17.35 ng

RT: 21.34 min Scan# 1772

Delta R.T. 0.00 min

Lab File: BF076888.D

Acq: 15 Jan 2015 17:23

Instrument :

BNA_F

ClientSampleId :

TP4-SS-3(6-8)

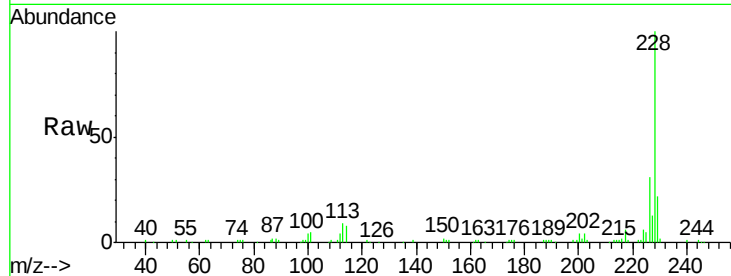
Tot Ion:228 Resp: 105462

Ion Ratio Lower Upper

228 100

226 30.7 23.4 35.0

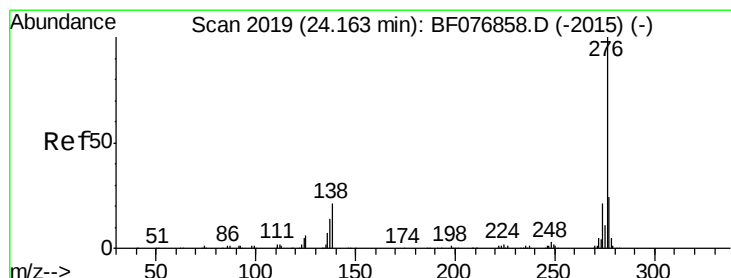
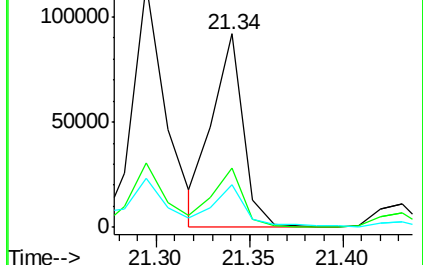
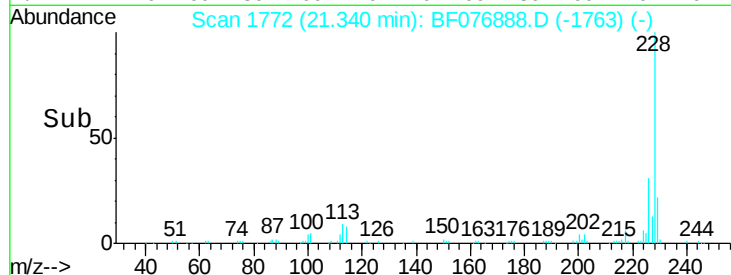
229 22.1 15.4 23.0



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: 10.47 ng m

RT: 24.09 min Scan# 2013

Delta R.T. -0.07 min

Lab File: BF076888.D

Acq: 15 Jan 2015 17:23

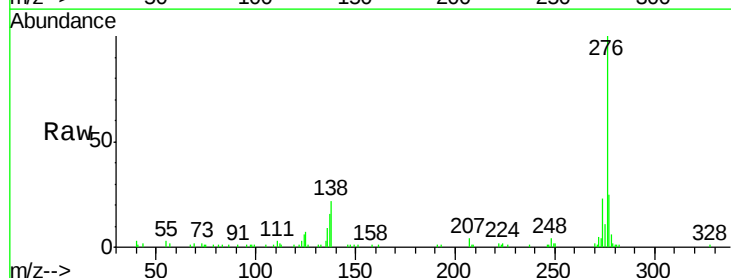
Tgt Ion:276 Resp: 67448

Ion Ratio Lower Upper

276 100

138 19.3 14.6 22.0

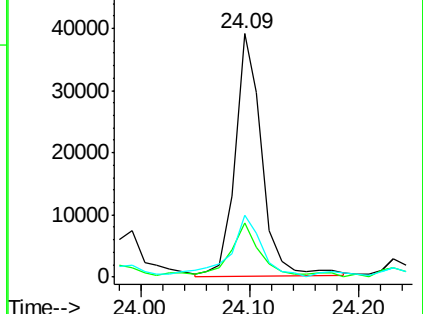
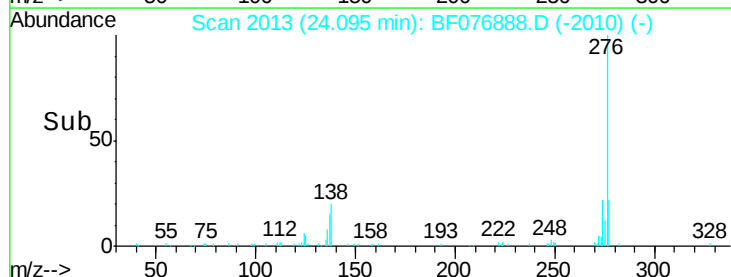
277 21.1 14.8 22.2

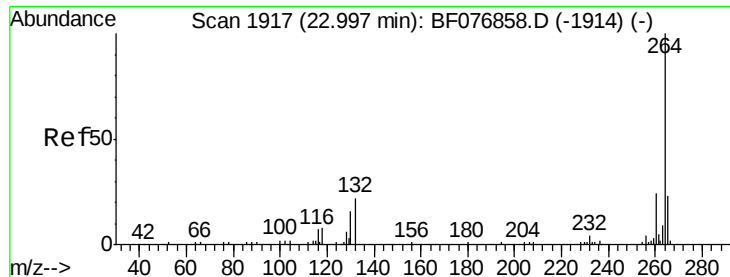


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



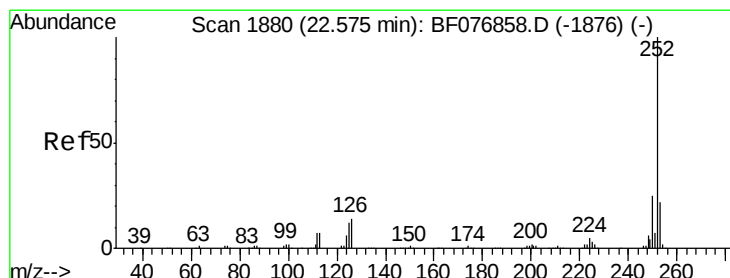
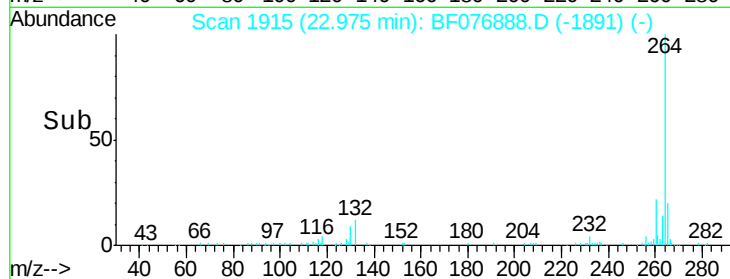
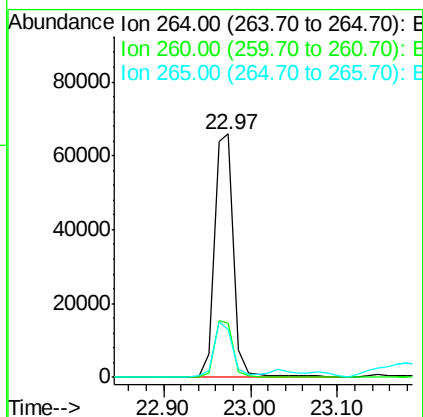
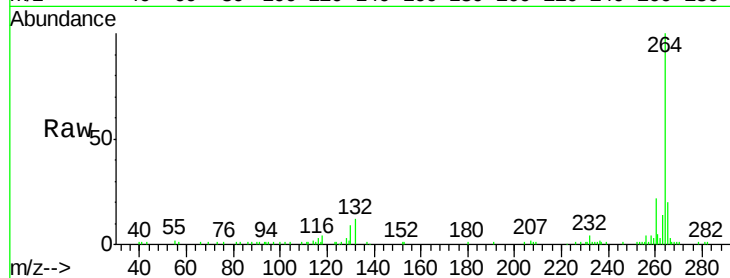


#86
Pervlene-d12
Concen: 20.00 ng
RT: 22.97 min Scan# 1915
Delta R.T. -0.02 min
Lab File: BF076888.D
Acq: 15 Jan 2015 17:23

Instrument :
BNA_F
ClientSampleId :
TP4-SS-3(6-8)

Tot Ion:264 Resp: 101608

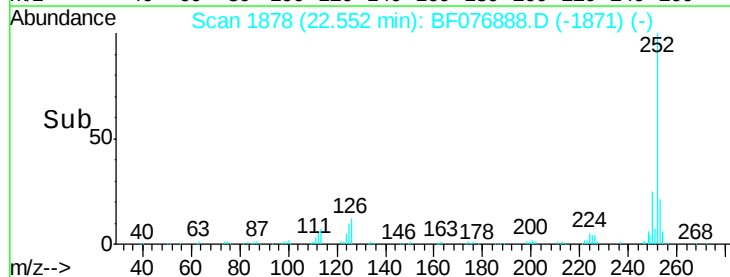
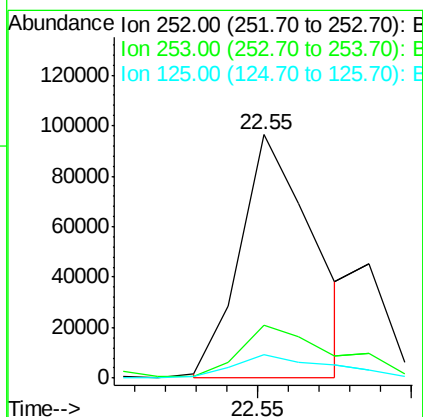
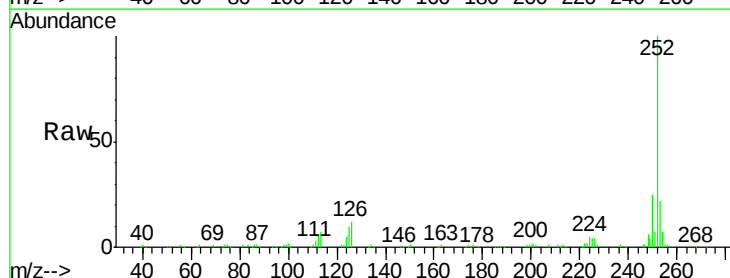
Ion	Ratio	Lower	Upper
264	100		
260	22.2	19.0	28.4
265	19.5	18.1	27.1

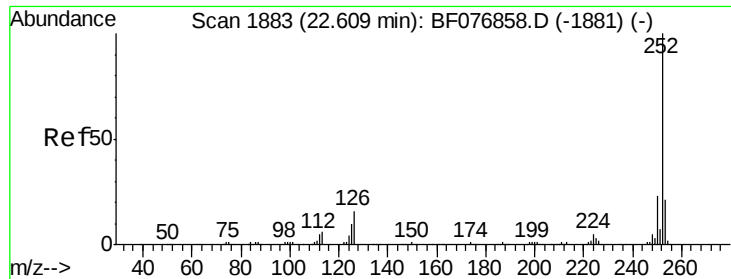


#87
Benzo(b)fluoranthene
Concen: 23.27 ng m
RT: 22.55 min Scan# 1878
Delta R.T. -0.02 min
Lab File: BF076888.D
Acq: 15 Jan 2015 17:23

Tgt Ion:252 Resp: 159245

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.5	26.3
125	9.8	9.4	14.0





#88

Benzo(k)fluoranthene

Concen: 6.04 ng

RT: 22.59 min Scan# 1881

Delta R.T. -0.02 min

Lab File: BF076888.D

Acq: 15 Jan 2015 17:23

Instrument :

BNA_F

ClientSampleId :

TP4-SS-3(6-8)

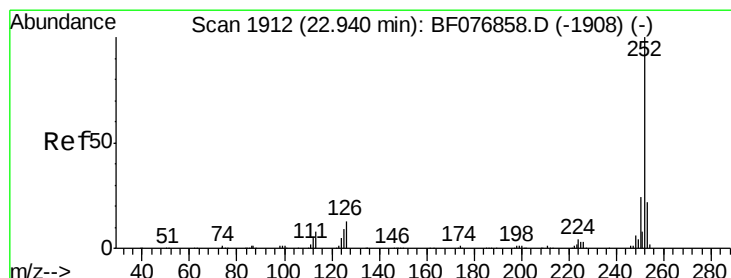
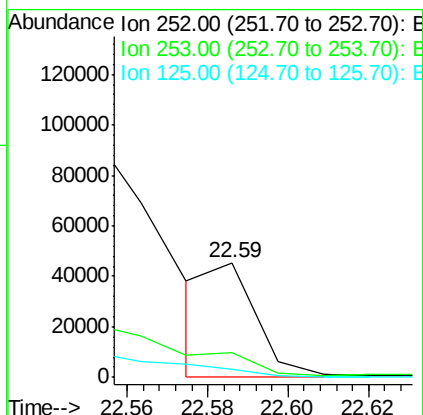
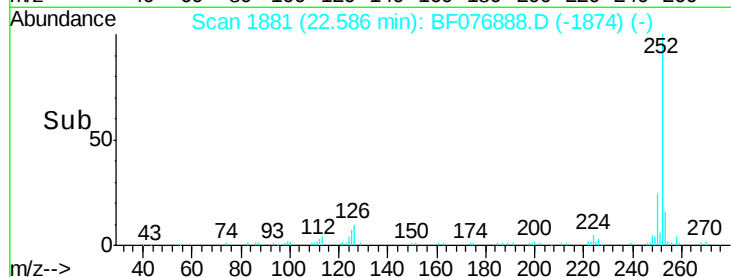
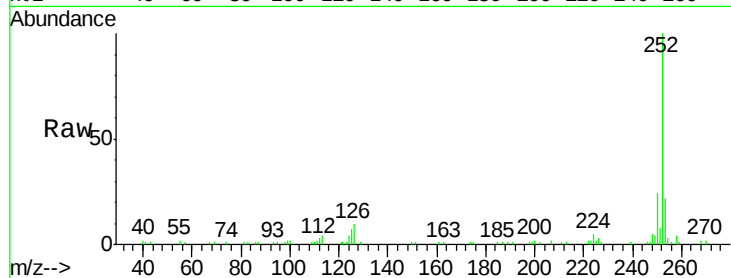
Tot Ion:252 Resp: 36108

Ion Ratio Lower Upper

252 100

253 21.6 17.2 25.8

125 7.1 7.1 10.7#



#89

Benzo(a)pyrene

Concen: 16.76 ng

RT: 22.91 min Scan# 1909

Delta R.T. -0.03 min

Lab File: BF076888.D

Acq: 15 Jan 2015 17:23

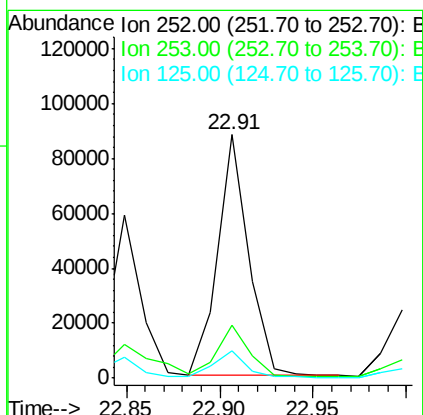
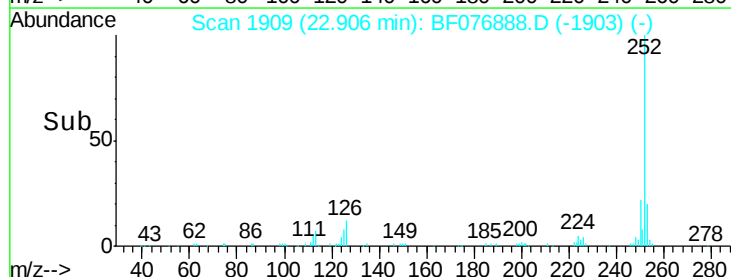
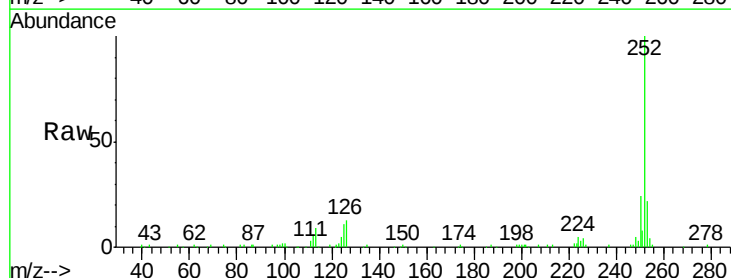
Tgt Ion:252 Resp: 101185

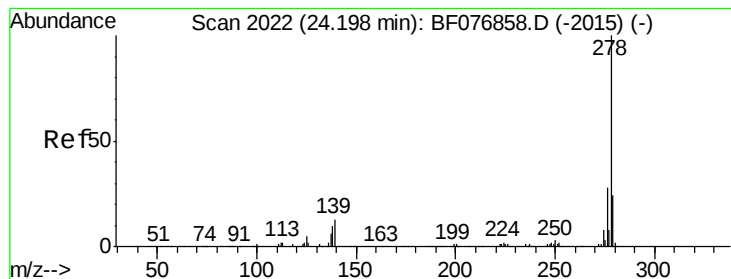
Ion Ratio Lower Upper

252 100

253 21.7 17.9 26.9

125 11.0 7.2 10.8#





#90

Dibenzo(a,h)anthracene

Concen: 2.47 ng/mL

RT: 24.12 min Scan# 2015

Delta R.T. -0.08 min

Lab File: BF076888.D

Acq: 15 Jan 2015 17:23

Instrument :

BNA_F

ClientSampleId :

TP4-SS-3(6-8)

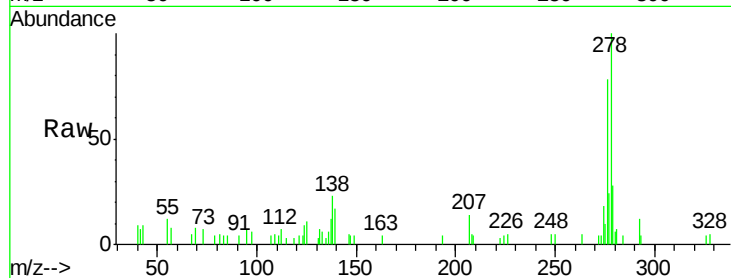
Tot Ion:278 Resp: 13684

Ion Ratio Lower Upper

278 100

139 16.6 10.5 15.7#

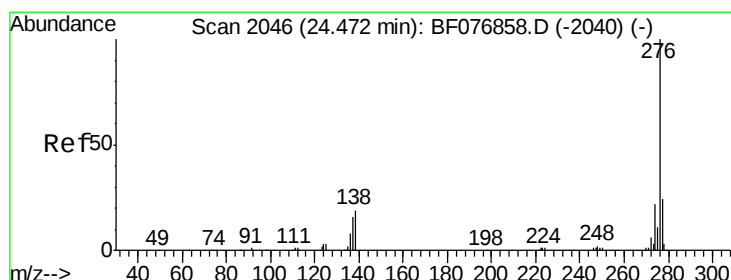
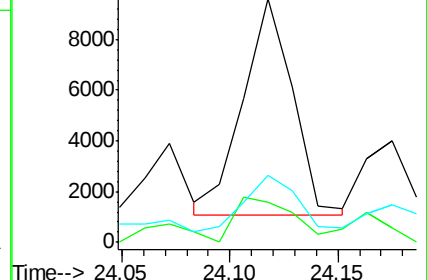
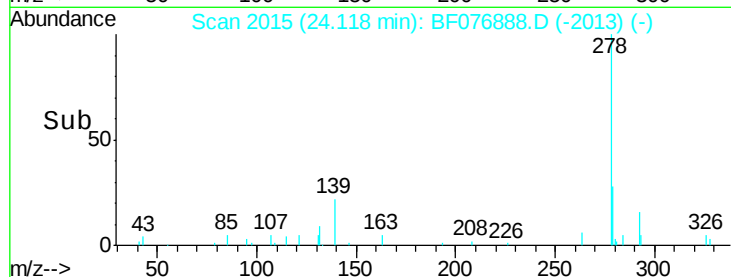
279 27.7 19.3 28.9



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 10.33 ng/mL

RT: 24.39 min Scan# 2039

Delta R.T. -0.08 min

Lab File: BF076888.D

Acq: 15 Jan 2015 17:23

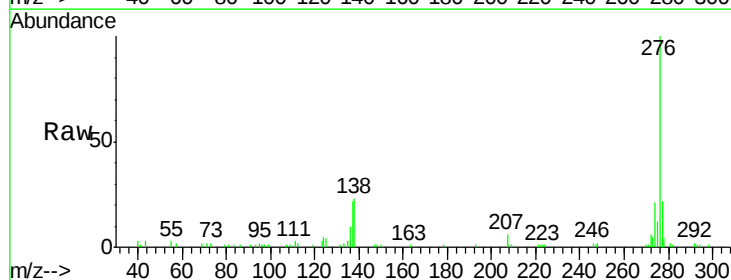
Tgt Ion:276 Resp: 56883

Ion Ratio Lower Upper

276 100

277 21.9 19.5 29.3

138 22.9 15.0 22.6#



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

