

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
 Data File : BF082333.D
 Acq On : 16 Oct 2015 18:47
 Operator : UM/IZ
 Sample : G4051-07 10X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TK1-2-20151015

Quant Time: Oct 17 01:15:21 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Oct 17 01:08:23 2015
 Response via : Initial Calibration

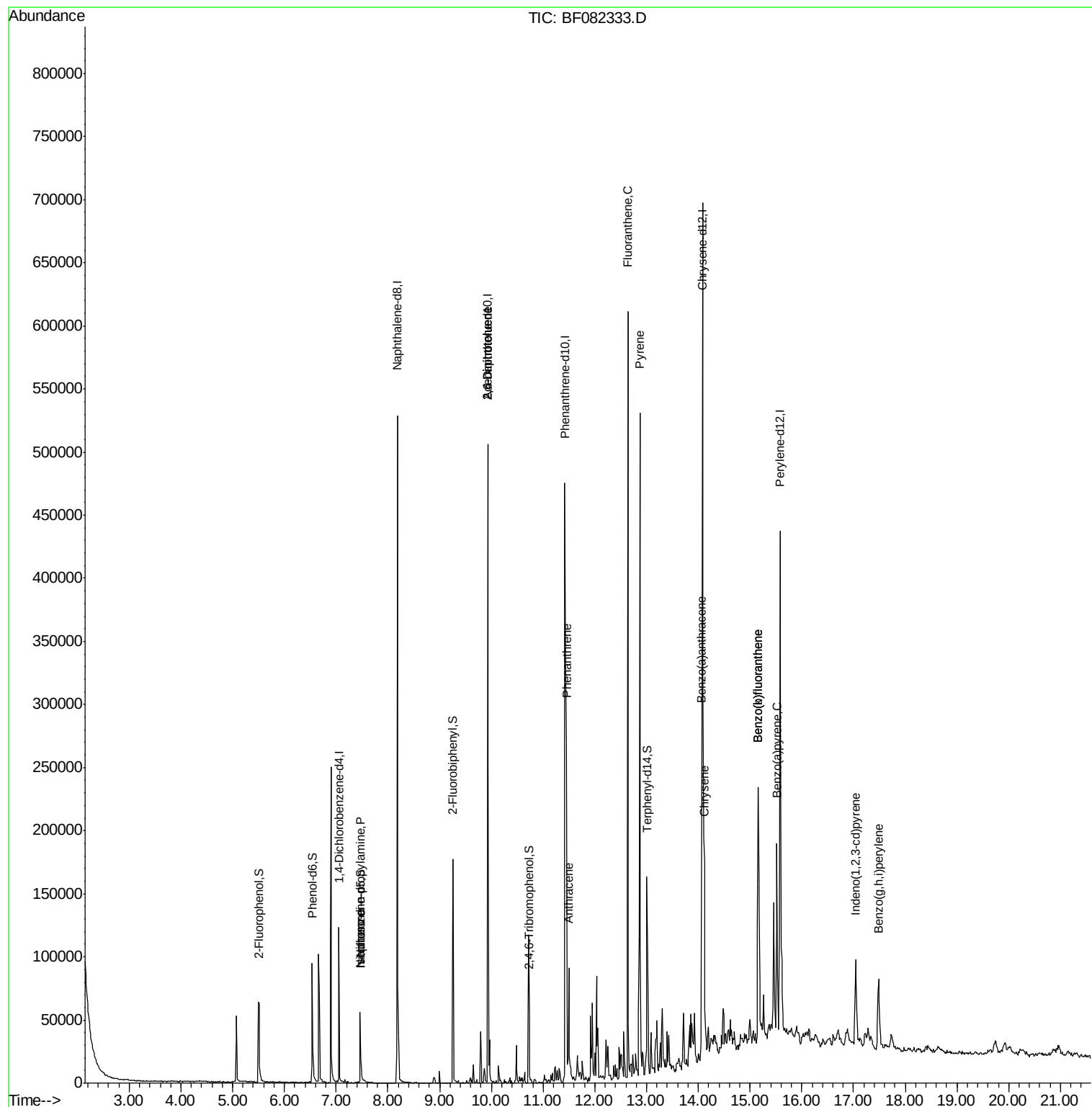
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.05	152	20754	20.00	ng	0.22
21) Naphthalene-d8	8.18	136	241411	20.00	ng	0.06
38) Acenaphthene-d10	9.93	164	122604	20.00	ng	0.05
63) Phenanthrene-d10	11.42	188	258957	20.00	ng	0.05
75) Chrysene-d12	14.08	240	234209	20.00	ng	0.01
86) Perylene-d12	15.58	264	220036	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.51	112	34037	33.10	ng	0.08
7) Phenol-d6	6.54	99	49345	36.87	ng	0.06
23) Nitrobenzene-d5	7.46	82	29162	8.11	ng	0.05
41) 2,4,6-Tribromophenol	10.73	330	15278	13.29	ng	0.05
44) 2-Fluorobiphenyl	9.26	172	63138	8.54	ng	0.05
78) Terphenyl-d14	13.01	244	66505	7.52	ng	0.05
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.46	70	3005	3.20	ng	# 78
25) Isophorone	7.46	82	29164	4.02	ng	# 66
50) 2,6-Dinitrotoluene	9.93	165	15530	8.53	ng	# 30
56) 2,4-Dinitrotoluene	9.93	165	15531	6.82	ng	# 21
70) Phenanthrene	11.45	178	184849	14.56	ng	97
71) Anthracene	11.50	178	48304	3.69	ng	99
74) Fluoranthene	12.64	202	254582	18.67	ng	98
77) Pyrene	12.87	202	219285	15.78	ng	97
80) Benzo(a)anthracene	14.07	228	106817	8.77	ng	99
82) Chrysene	14.12	228	88234	6.87	ng	97
85) Indeno(1,2,3-cd)pyrene	17.04	276	53507	5.24	ng	95
87) Benzo(b)fluoranthene	15.16	252	152632	11.40	ng	99
88) Benzo(k)fluoranthene	15.16	252	152632	13.56	ng	98
89) Benzo(a)pyrene	15.52	252	79790	6.94	ng	97
91) Benzo(a,h,i)perylene	17.49	276	54421	5.94	ng	97

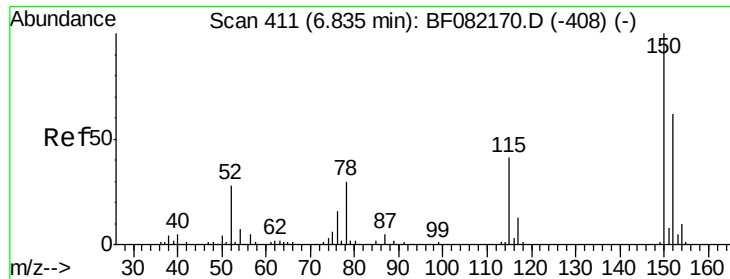
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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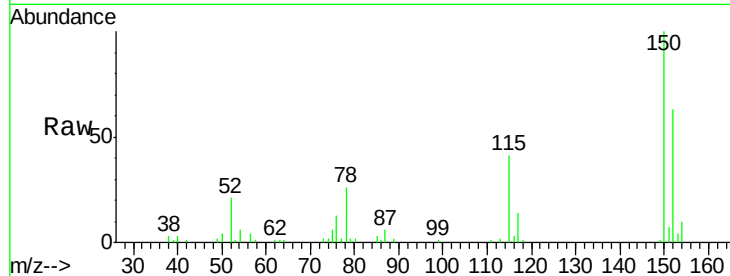


#1

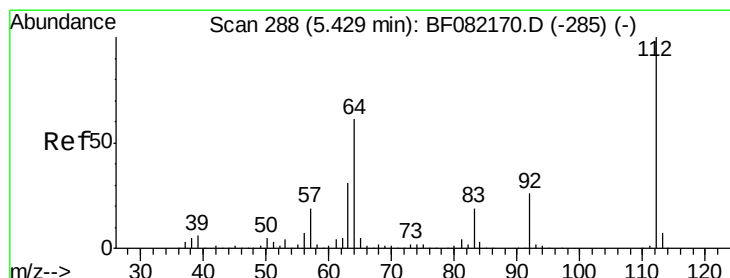
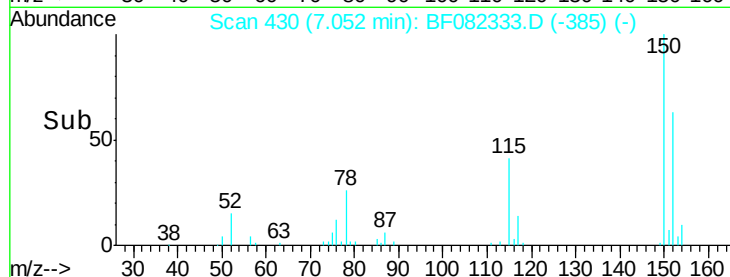
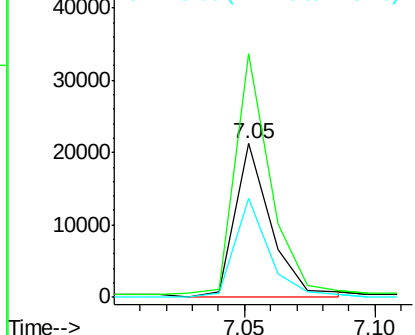
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.05 min Scan# 430
Delta R.T. 0.22 min
Lab File: BF082333.D
Acq: 16 Oct 2015 18:47

Instrument :
BNA_F
ClientSampleId :
TK1-2-20151015

Tot Ion:152 Resp: 20754
Ion Ratio Lower Upper
152 100
150 158.6 129.0 193.4
115 64.3 52.1 78.1



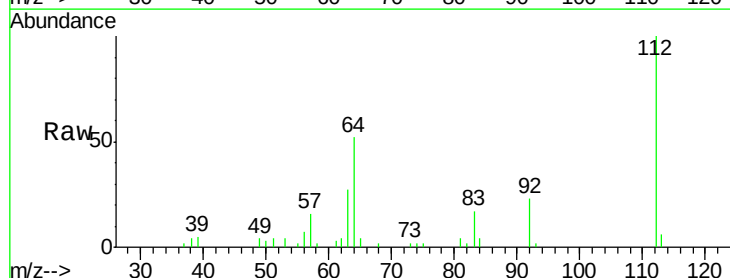
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



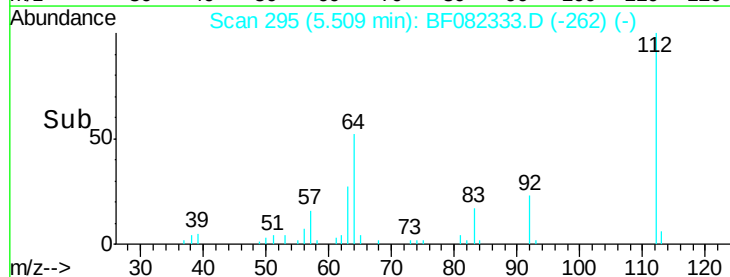
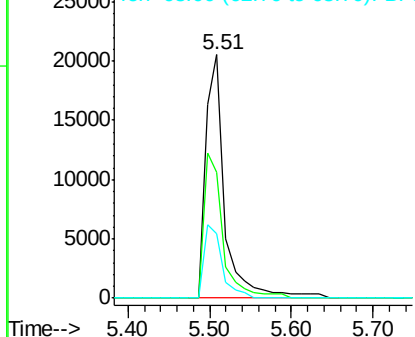
#5

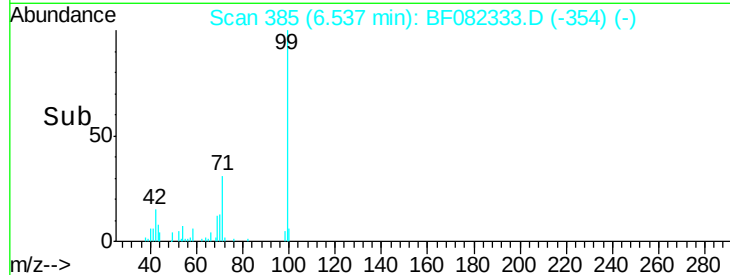
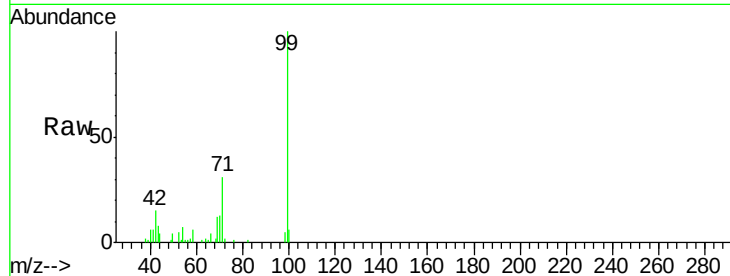
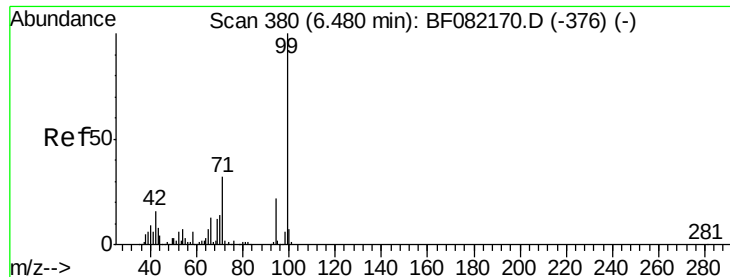
2-Fluorophenol
Concen: 33.10 ng
RT: 5.51 min Scan# 295
Delta R.T. 0.08 min
Lab File: BF082333.D
Acq: 16 Oct 2015 18:47

Tgt Ion:112 Resp: 34037
Ion Ratio Lower Upper
112 100
64 51.6 48.6 73.0
63 26.6 25.1 37.7



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: 36.87 ng

RT: 6.54 min Scan# 385

Delta R.T. 0.06 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

Instrument :

BNA_F

ClientSampleId :

TK1-2-20151015

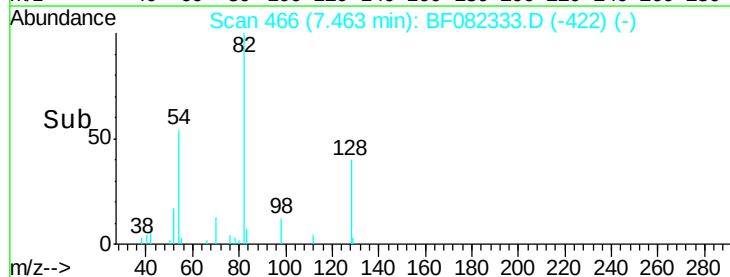
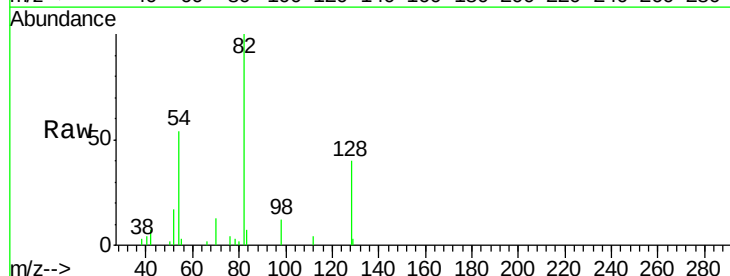
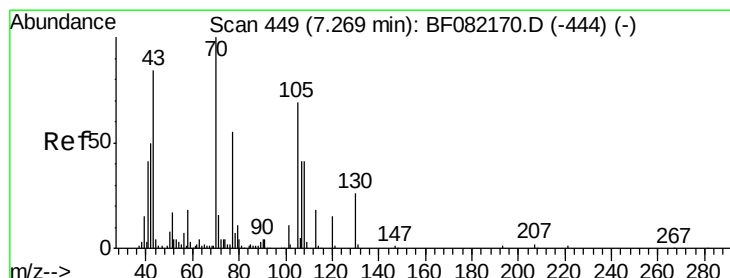
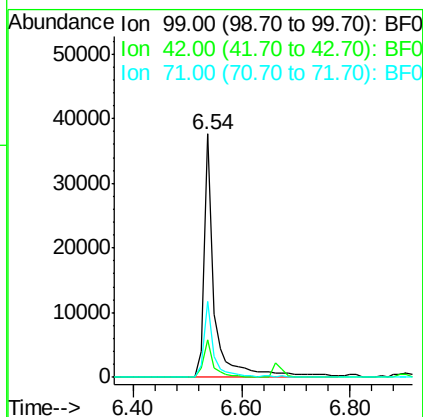
Tot Ion: 99 Resp: 49345

Ion Ratio Lower Upper

99 100

42 15.5 13.2 19.8

71 31.0 25.6 38.4



#19

n-Nitroso-di-n-propylamine

Concen: 3.20 ng

RT: 7.46 min Scan# 466

Delta R.T. 0.21 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

Tgt Ion: 70 Resp: 3005

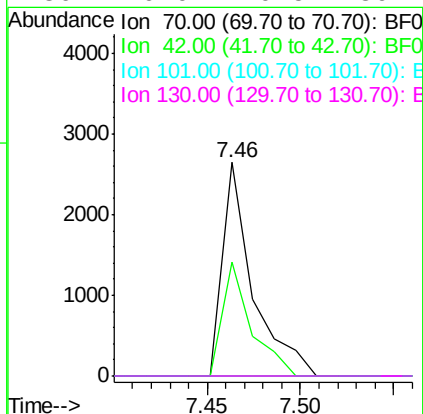
Ion Ratio Lower Upper

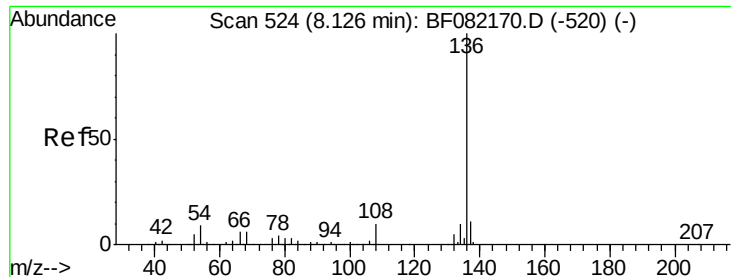
70 100

42 53.4 39.8 59.8

101 0.0 8.6 13.0#

130 0.0 20.5 30.7#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.18 min Scan# 529

Delta R.T. 0.06 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

Instrument :

BNA_F

ClientSampleId :

TK1-2-20151015

Tot Ion:136 Resp: 241411

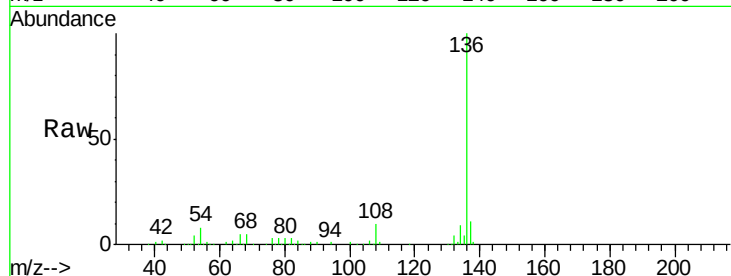
Ion Ratio Lower Upper

136 100

137 10.7 9.0 13.6

54 8.1 7.5 11.3

68 5.1 4.6 7.0

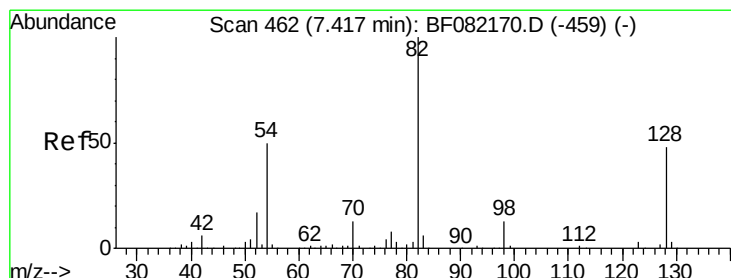
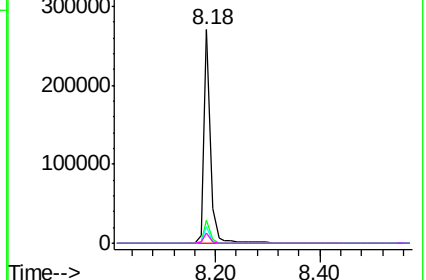
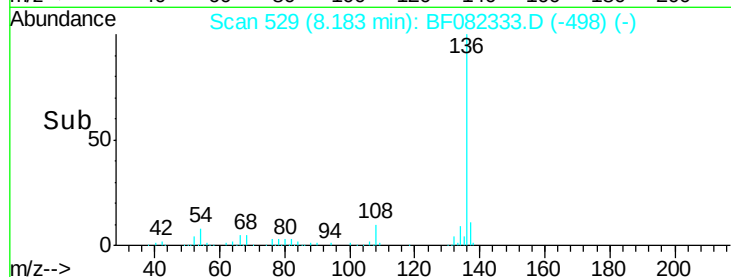


Abundance Ion 136.00 (135.70 to 136.70): E

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: 8.11 ng

RT: 7.46 min Scan# 466

Delta R.T. 0.05 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

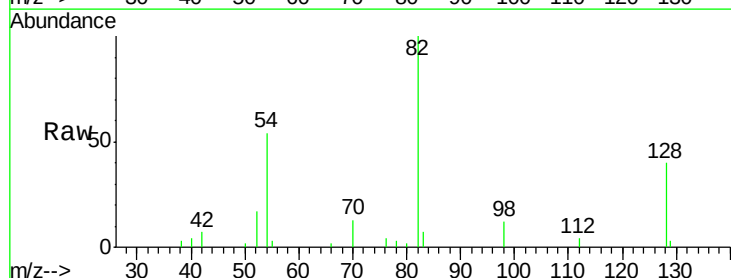
Tgt Ion: 82 Resp: 29162

Ion Ratio Lower Upper

82 100

128 39.6 38.7 58.1

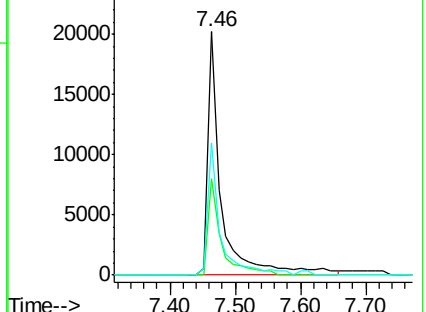
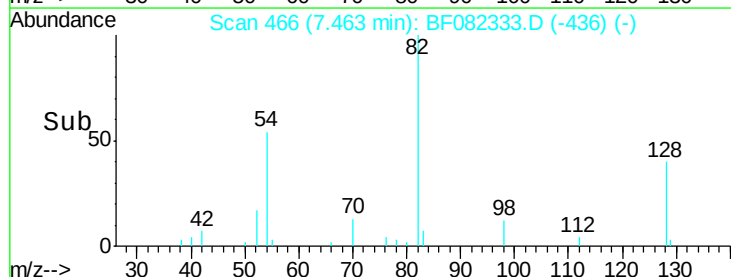
54 54.1 40.1 60.1

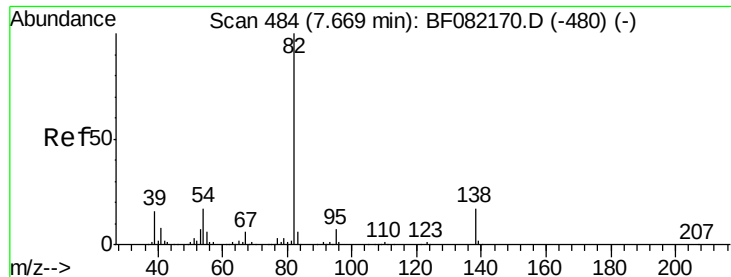


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 4.02 ng

RT: 7.46 min Scan# 466

Delta R.T. -0.21 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

Instrument :

BNA_F

ClientSampleId :

TK1-2-20151015

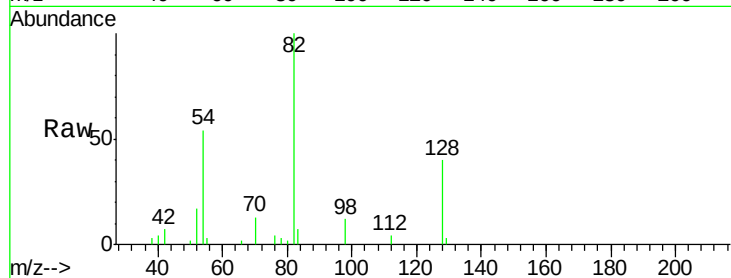
Tot Ion: 82 Resp: 29164

Ion Ratio Lower Upper

82 100

95 0.0 5.6 8.4#

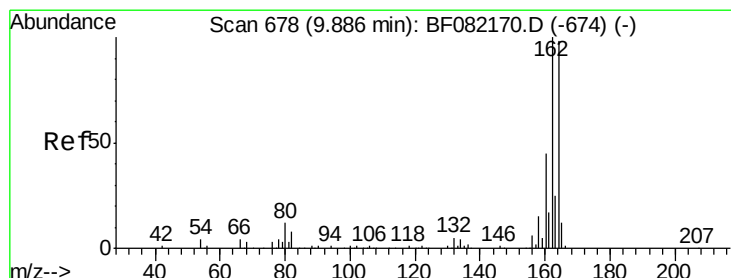
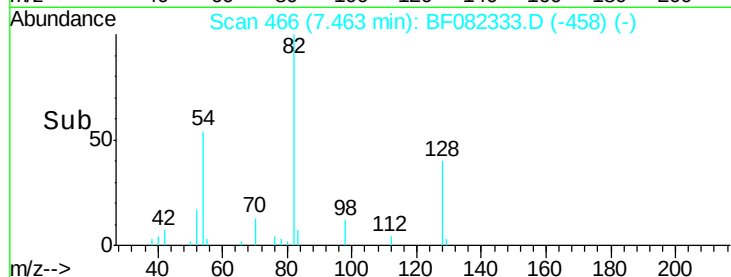
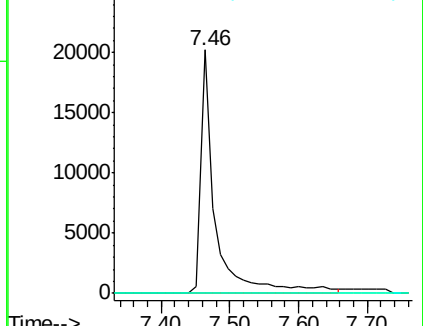
138 0.0 13.6 20.4#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.93 min Scan# 682

Delta R.T. 0.05 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

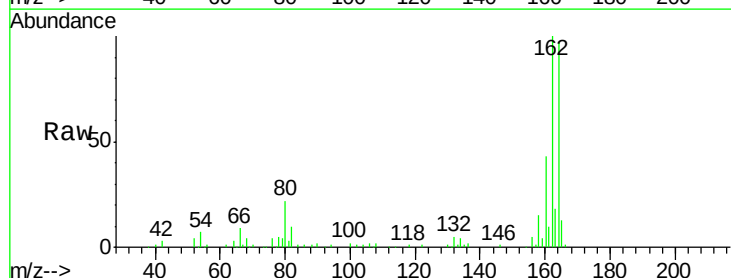
Tgt Ion: 164 Resp: 122604

Ion Ratio Lower Upper

164 100

162 103.0 81.6 122.4

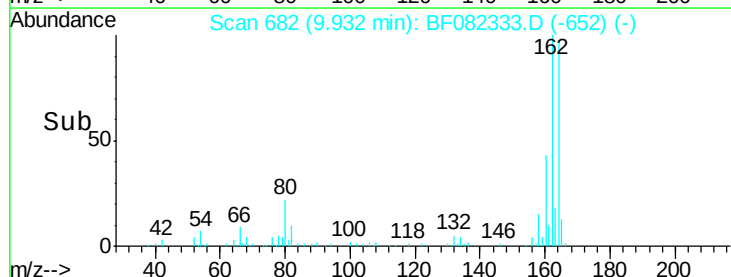
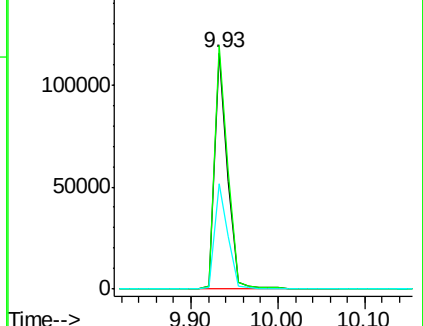
160 44.3 36.4 54.6

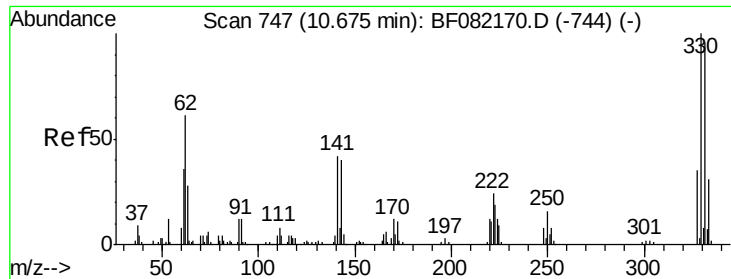


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

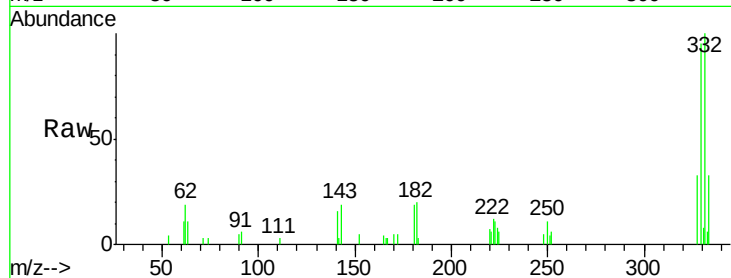




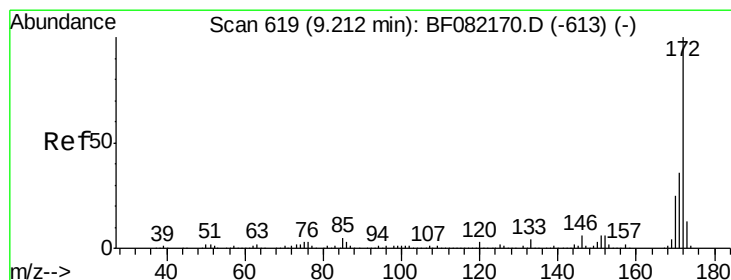
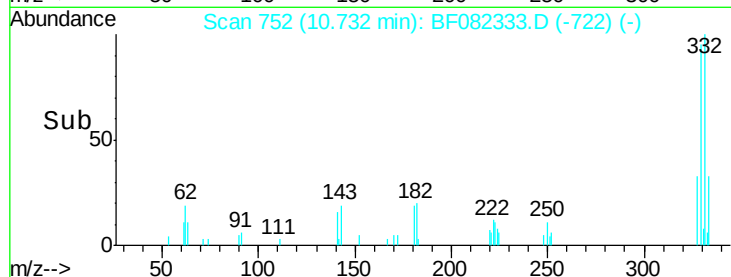
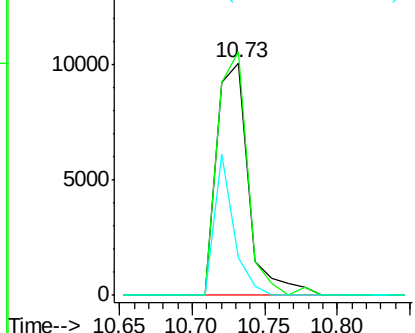
#41
 2,4,6-Tribromophenol
 Concen: 13.29 ng
 RT: 10.73 min Scan# 752
 Delta R.T. 0.05 min
 Lab File: BF082333.D
 Acq: 16 Oct 2015 18:47

Instrument :
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 ClientSampleId :
 TK1-2-20151015

Tot Ion	Ratio	Lower	Upper
330	100		
332	99.4	77.1	115.7
141	36.6	29.8	44.8

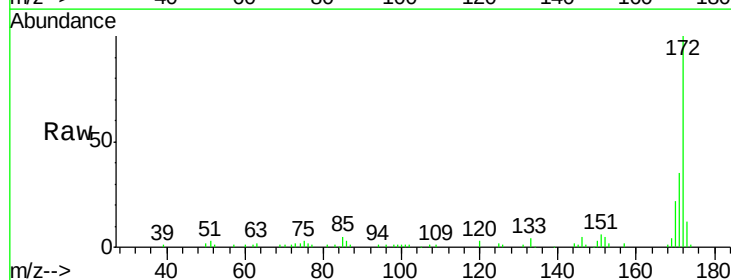


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

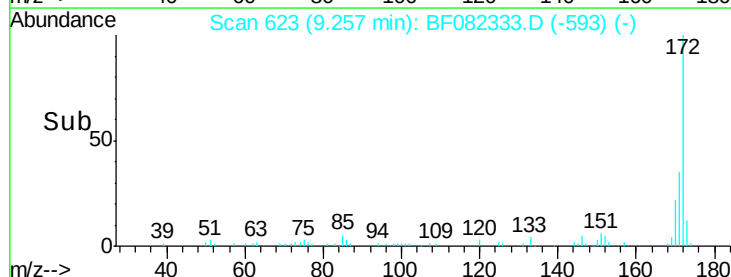
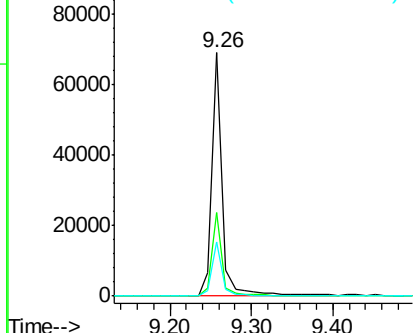


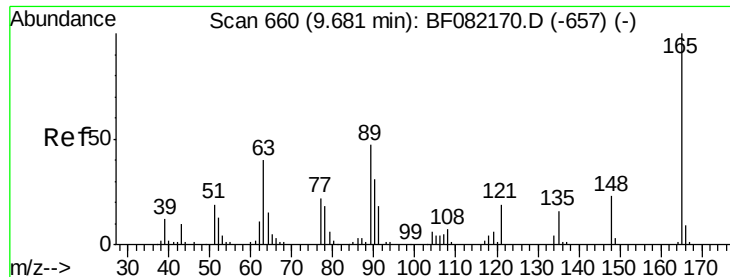
#44
 2-Fluorobiphenyl
 Concen: 8.54 ng
 RT: 9.26 min Scan# 623
 Delta R.T. 0.05 min
 Lab File: BF082333.D
 Acq: 16 Oct 2015 18:47

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.6	42.8
170	22.4	19.7	29.5



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

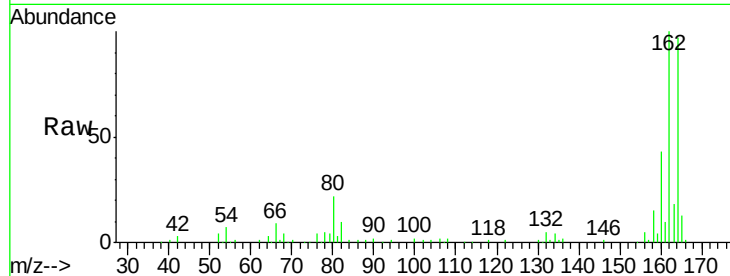




#50
2,6-Dinitrotoluene
Concen: 8.53 ng
RT: 9.93 min Scan# 682
Delta R.T. 0.25 min
Lab File: BF082333.D
Acq: 16 Oct 2015 18:47

Instrument :
BNA_F
ClientSampleId :
TK1-2-20151015

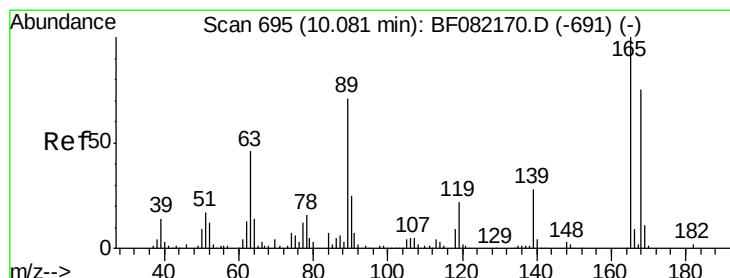
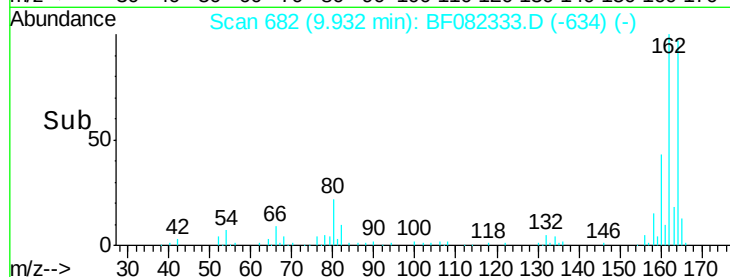
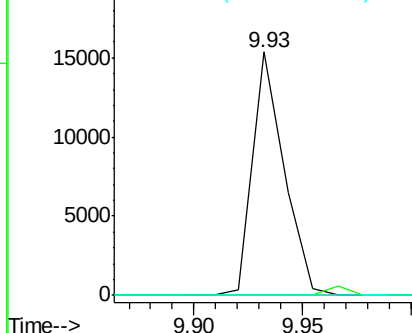
Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	36.7	55.1#
89	0.0	37.8	56.6#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#56
2,4-Dinitrotoluene
Concen: 6.82 ng
RT: 9.93 min Scan# 682
Delta R.T. -0.15 min
Lab File: BF082333.D
Acq: 16 Oct 2015 18:47

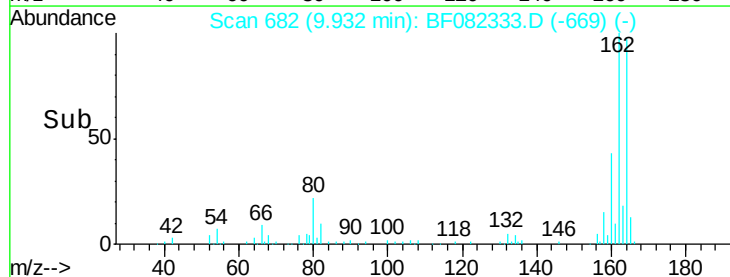
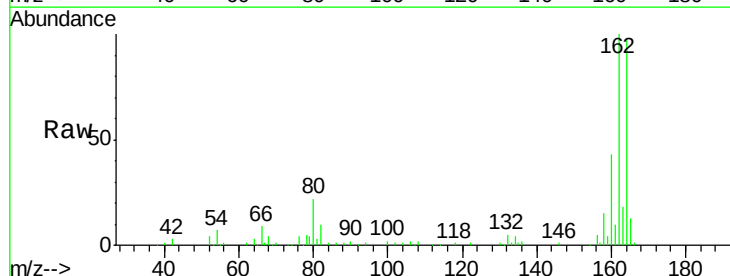
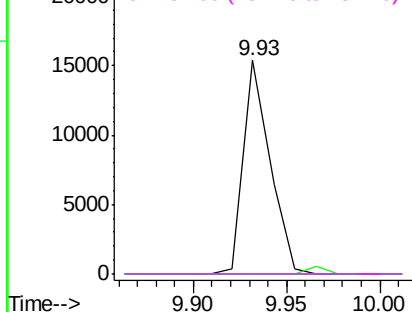
Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	38.6	58.0#
89	0.0	57.0	85.6#
182	0.0	1.8	2.6#

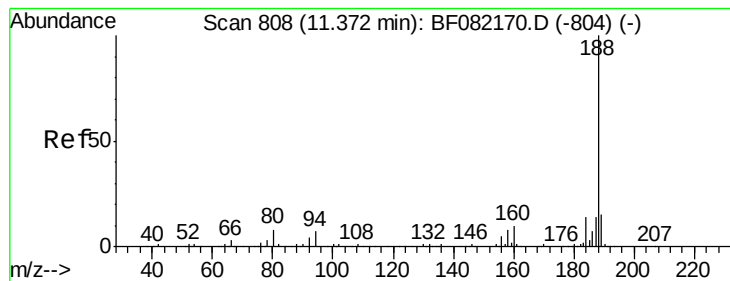
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.42 min Scan# 812

Delta R.T. 0.05 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

Instrument :

BNA_F

ClientSampleId :

TK1-2-20151015

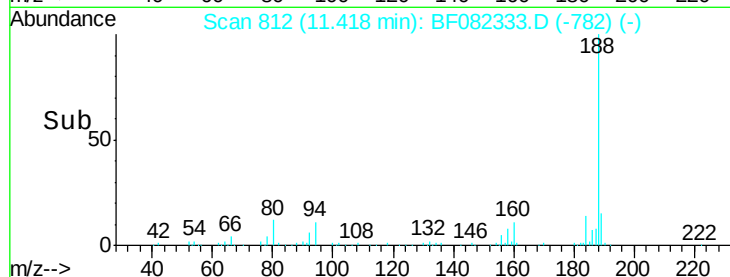
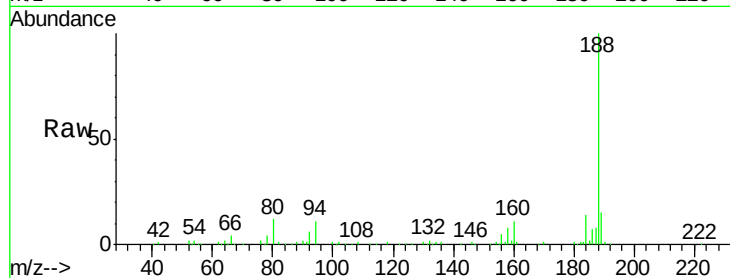
Tot Ion:188 Resp: 258957

Ion Ratio Lower Upper

188 100

94 11.2 5.8 8.6#

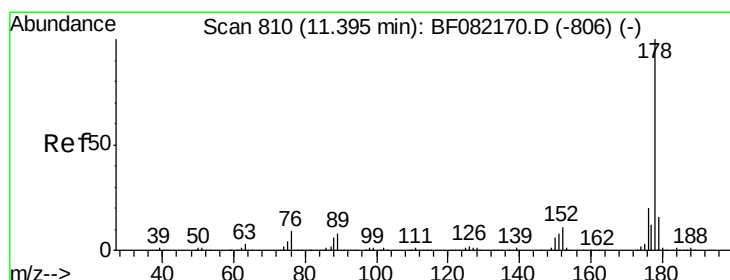
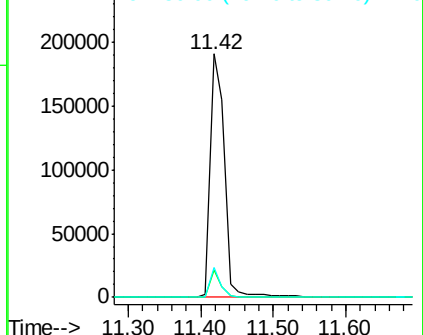
80 12.5 6.4 9.6#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 14.56 ng

RT: 11.45 min Scan# 815

Delta R.T. 0.06 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

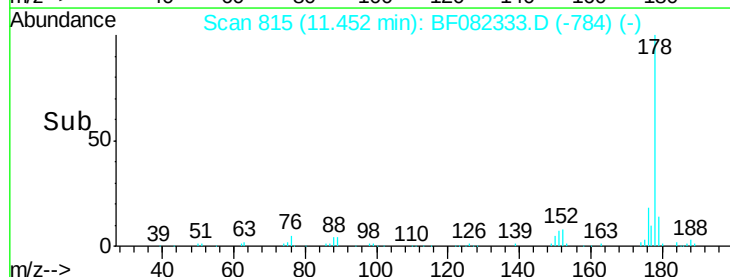
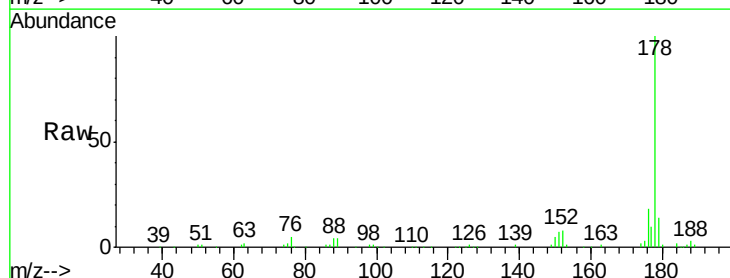
Tgt Ion:178 Resp: 184849

Ion Ratio Lower Upper

178 100

176 18.3 16.0 24.0

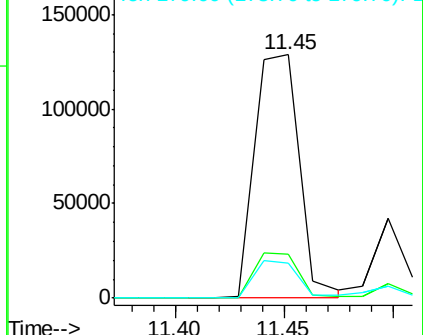
179 14.5 12.6 19.0

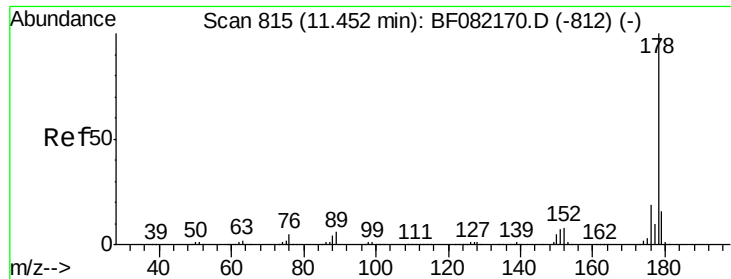


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

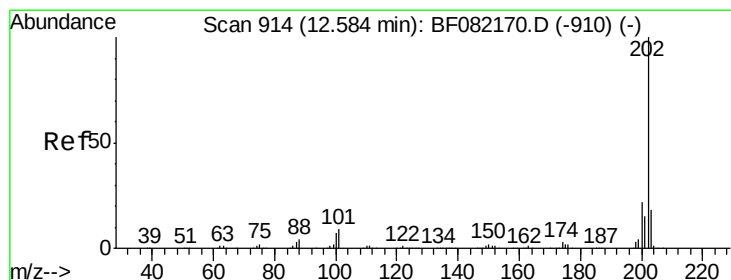
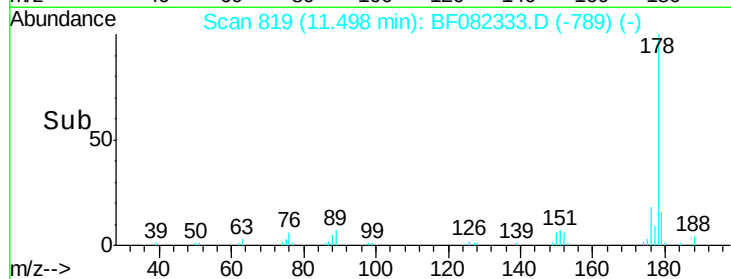
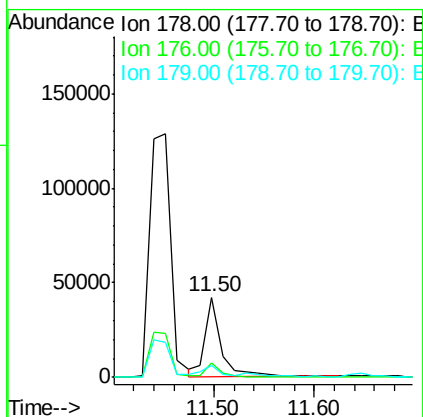
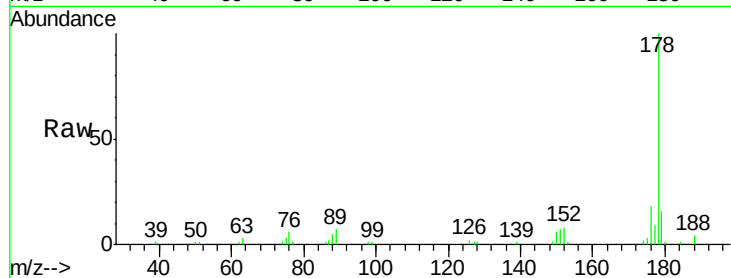




#71
 Anthracene
 Concen: 3.69 ng
 RT: 11.50 min Scan# 819
 Delta R.T. 0.05 min
 Lab File: BF082333.D
 Acq: 16 Oct 2015 18:47

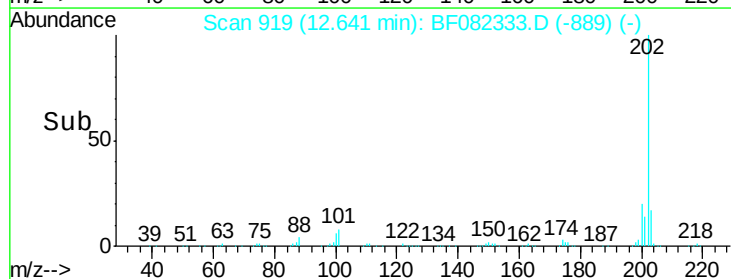
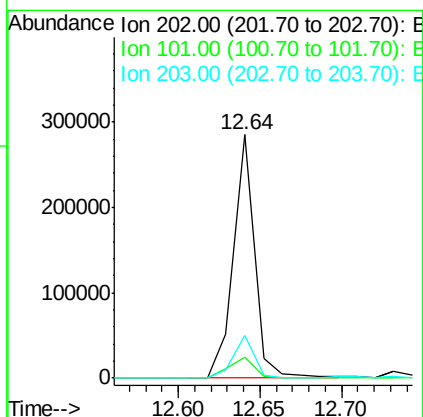
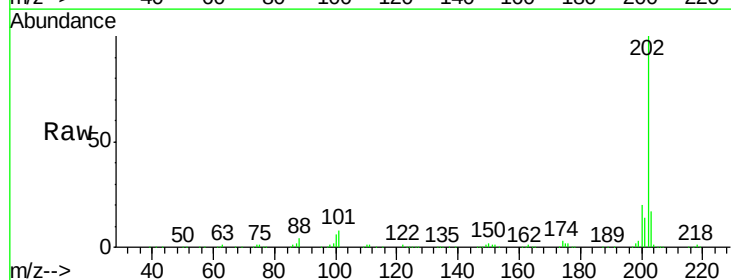
Instrument :
 BNA_F
 ClientSampleId :
 TK1-2-20151015

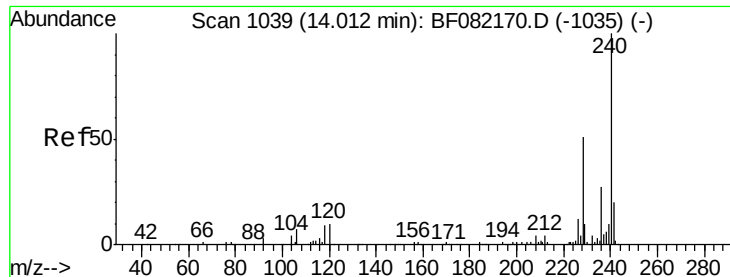
Tot Ion:178 Resp: 48304
 Ion Ratio Lower Upper
 178 100
 176 18.2 15.4 23.0
 179 15.5 12.5 18.7



#74
 Fluoranthene
 Concen: 18.67 ng
 RT: 12.64 min Scan# 919
 Delta R.T. 0.05 min
 Lab File: BF082333.D
 Acq: 16 Oct 2015 18:47

Tgt Ion:202 Resp: 254582
 Ion Ratio Lower Upper
 202 100
 101 8.4 0.0 29.3
 203 17.3 0.0 37.8





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.08 min Scan# 1045

Delta R.T. 0.01 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

Instrument :

BNA_F

ClientSampleId :

TK1-2-20151015

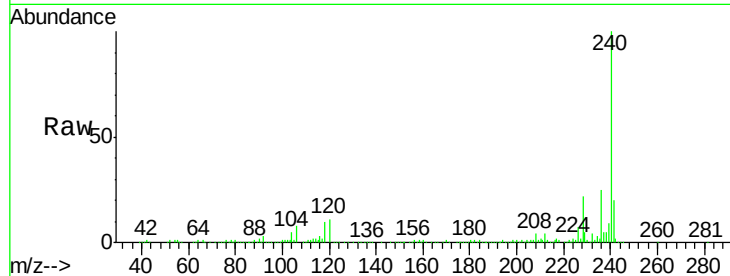
Tot Ion:240 Resp: 234209

Ion Ratio Lower Upper

240 100

120 11.5 8.1 12.1

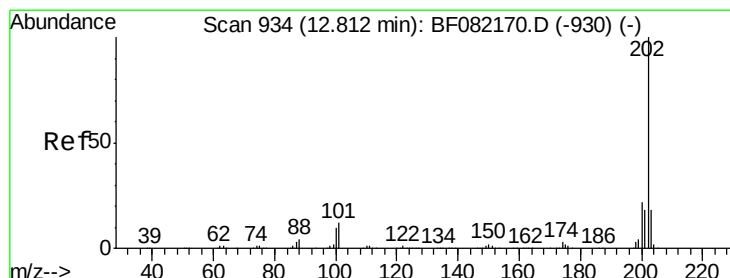
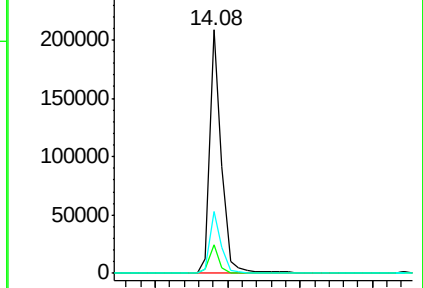
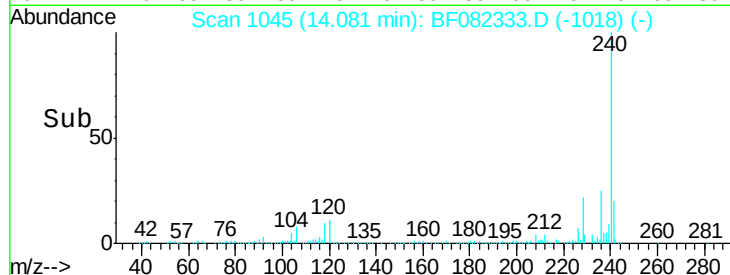
236 25.5 21.3 31.9



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: 15.78 ng

RT: 12.87 min Scan# 939

Delta R.T. 0.05 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

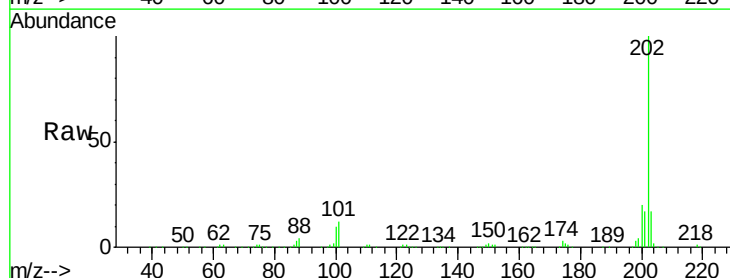
Tgt Ion:202 Resp: 219285

Ion Ratio Lower Upper

202 100

200 20.3 17.9 26.9

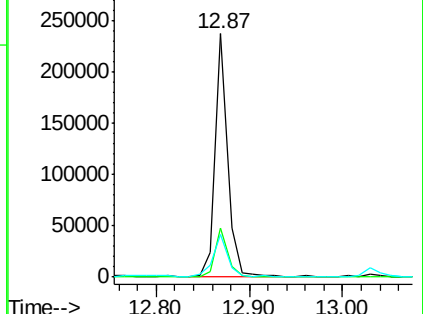
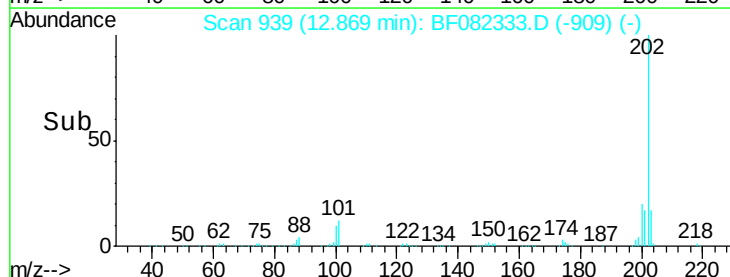
203 17.5 14.5 21.7

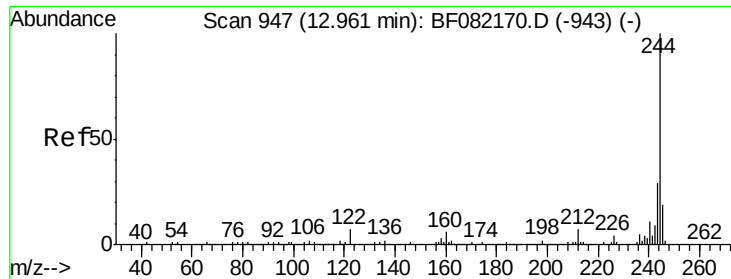


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

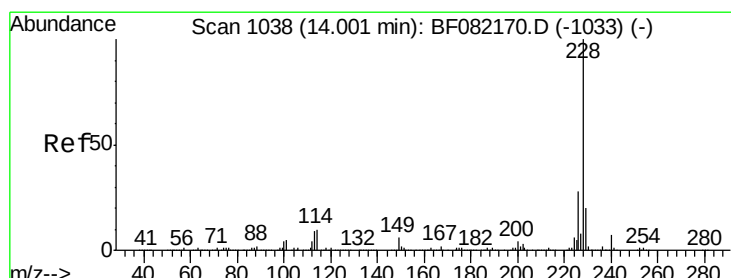
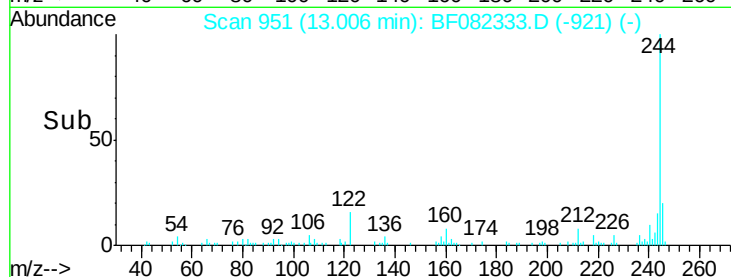
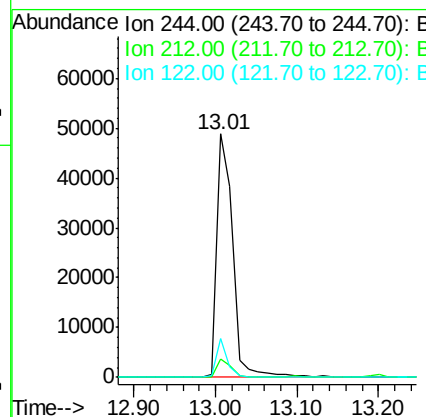
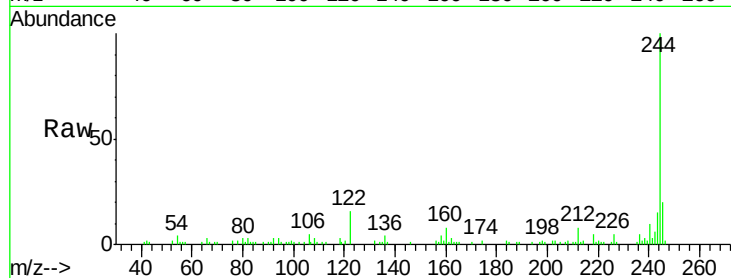




#78
 Terphenyl-d14
 Concen: 7.52 ng
 RT: 13.01 min Scan# 951
 Delta R.T. 0.05 min
 Lab File: BF082333.D
 Acq: 16 Oct 2015 18:47

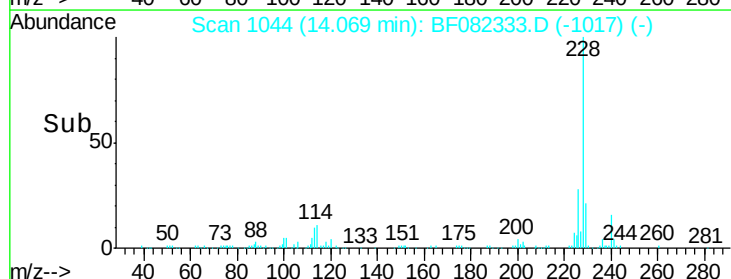
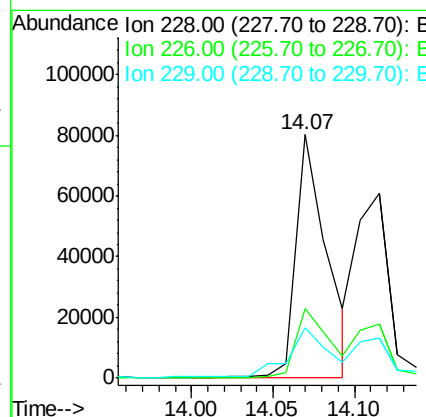
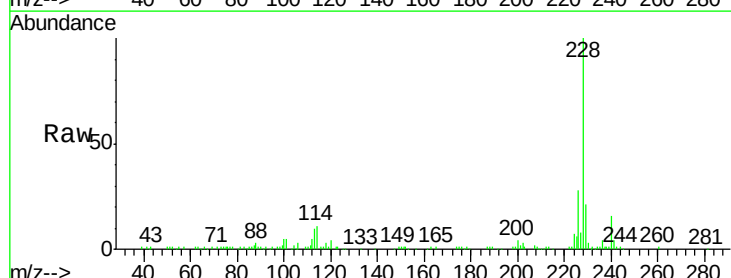
Instrument :
 BNA_F
 ClientSampleId :
 TK1-2-20151015

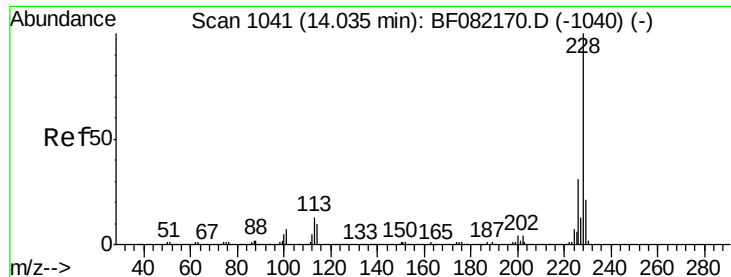
Tot Ion:244 Resp: 66505
 Ion Ratio Lower Upper
 244 100
 212 7.5 5.8 8.6
 122 15.7 5.9 8.9#



#80
 Benzo(a)anthracene
 Concen: 8.77 ng
 RT: 14.07 min Scan# 1044
 Delta R.T. 0.01 min
 Lab File: BF082333.D
 Acq: 16 Oct 2015 18:47

Tgt Ion:228 Resp: 106817
 Ion Ratio Lower Upper
 228 100
 226 28.4 22.3 33.5
 229 20.7 16.2 24.2





#82

Chrysene

Concen: 6.87 ng

RT: 14.12 min Scan# 1048

Delta R.T. 0.02 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

Instrument :

BNA_F

ClientSampleId :

TK1-2-20151015

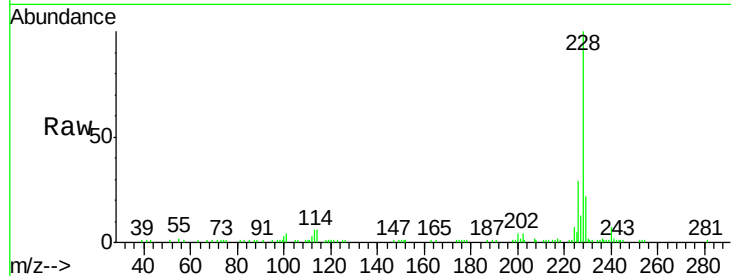
Tot Ion:228 Resp: 88234

Ion Ratio Lower Upper

228 100

226 29.2 24.4 36.6

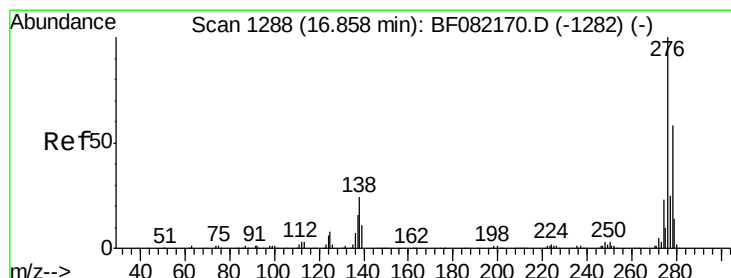
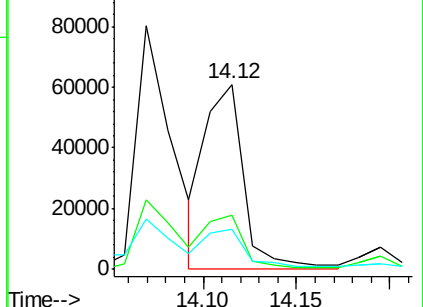
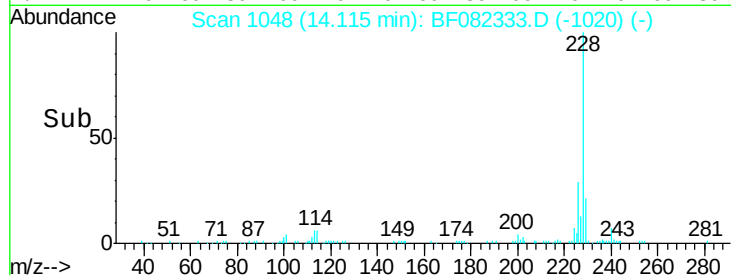
229 22.0 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 5.24 ng

RT: 17.04 min Scan# 1304

Delta R.T. 0.01 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

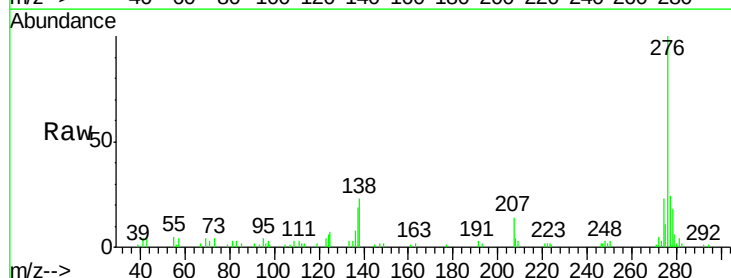
Tgt Ion:276 Resp: 53507

Ion Ratio Lower Upper

276 100

138 22.9 19.7 29.5

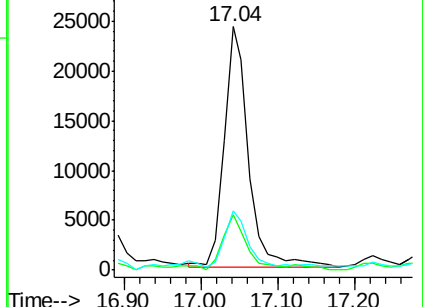
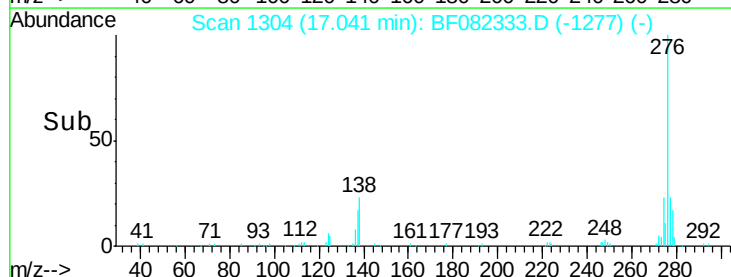
277 22.2 20.1 30.1

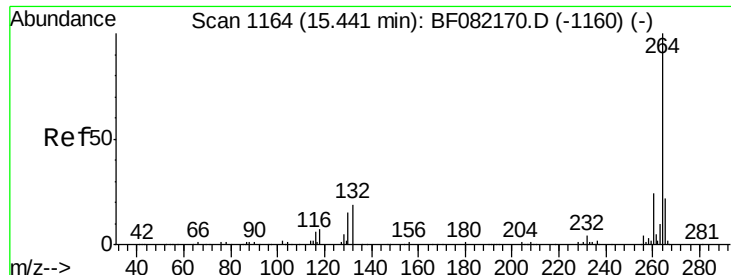


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

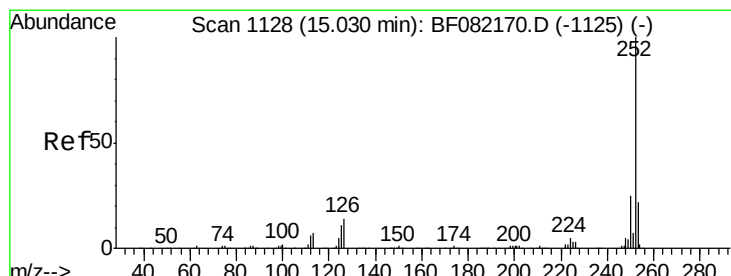
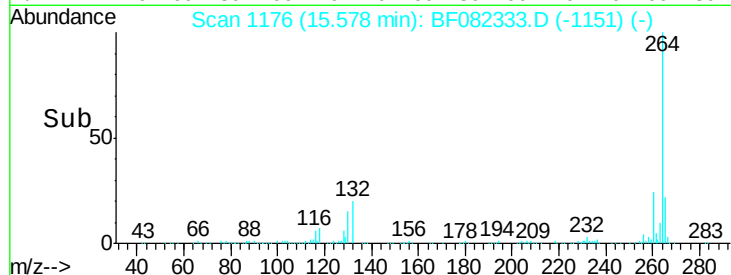
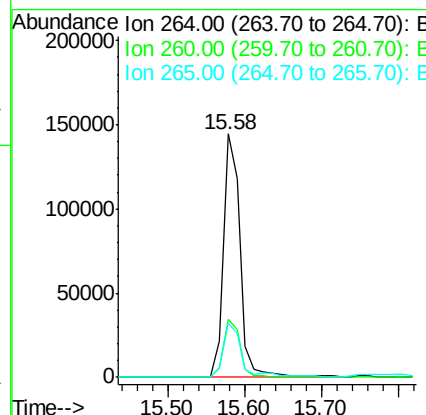
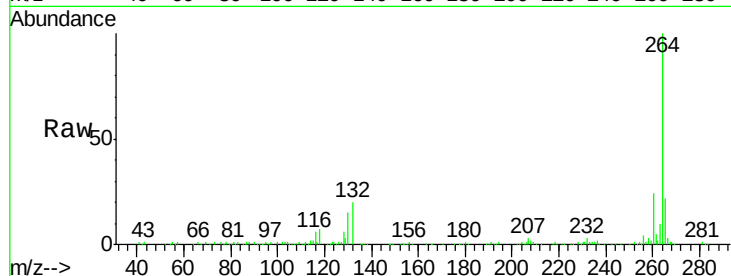




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.58 min Scan# 1176
Delta R.T. -0.01 min
Lab File: BF082333.D
Acq: 16 Oct 2015 18:47

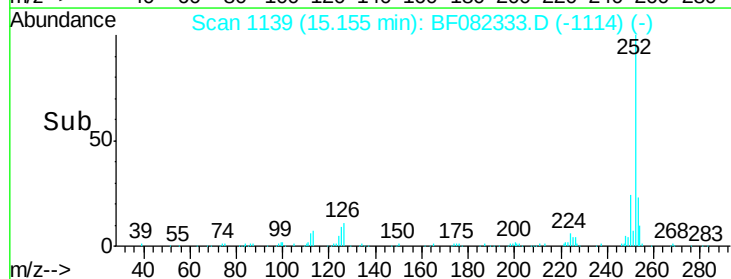
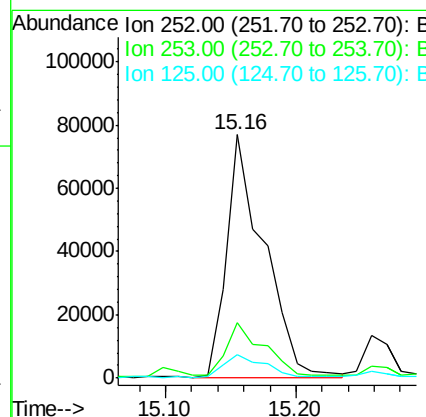
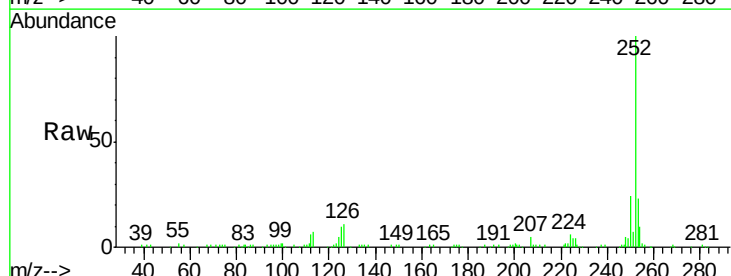
Instrument :
BNA_F
ClientSampleId :
TK1-2-20151015

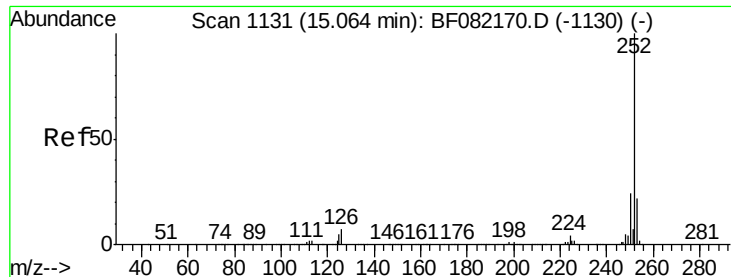
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.0	28.6
265	22.2	17.3	25.9



#87
Benzo(b)fluoranthene
Concen: 11.40 ng
RT: 15.16 min Scan# 1139
Delta R.T. -0.01 min
Lab File: BF082333.D
Acq: 16 Oct 2015 18:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.0	27.0
125	9.9	8.6	12.8





#88

Benzo(k)fluoranthene

Concen: 13.56 ng

RT: 15.16 min Scan# 1139

Delta R.T. -0.05 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

Instrument :

BNA_F

ClientSampleId :

TK1-2-20151015

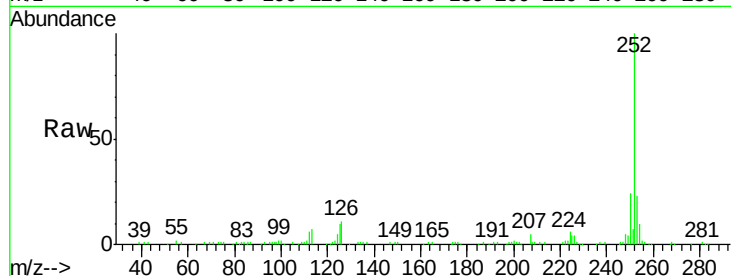
Tot Ion:252 Resp: 152632

Ion Ratio Lower Upper

252 100

253 23.0 17.8 26.6

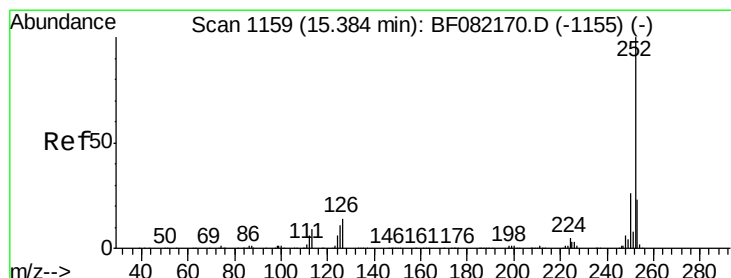
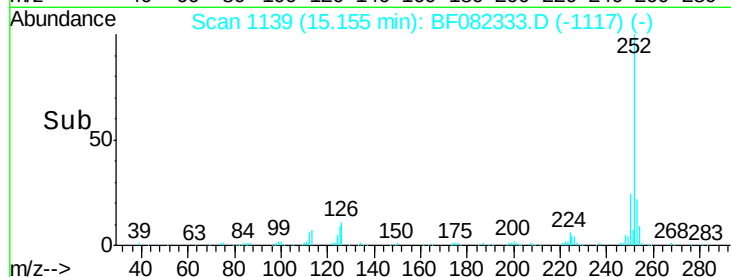
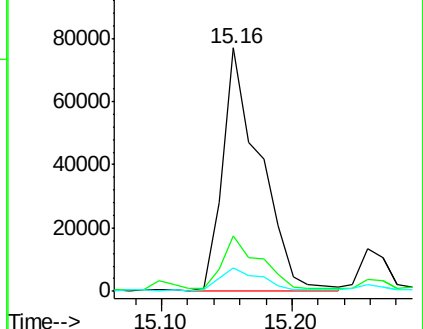
125 9.9 6.7 10.1



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



#89

Benzo(a)pyrene

Concen: 6.94 ng

RT: 15.52 min Scan# 1171

Delta R.T. -0.01 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

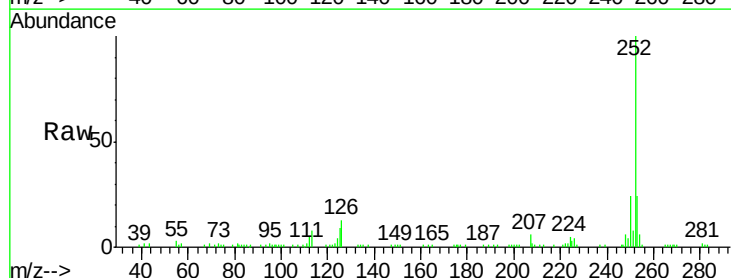
Tgt Ion:252 Resp: 79790

Ion Ratio Lower Upper

252 100

253 23.6 18.2 27.2

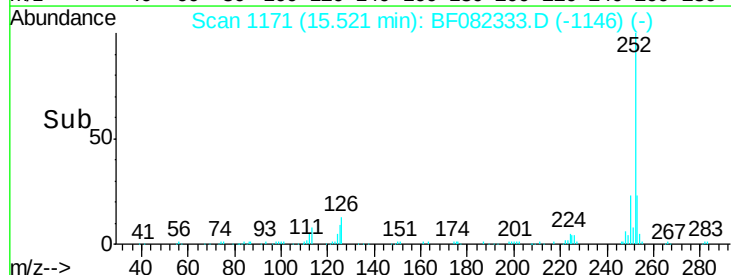
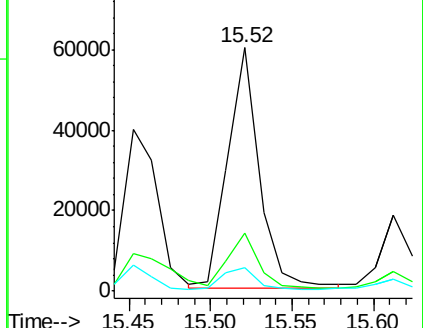
125 9.4 8.9 13.3

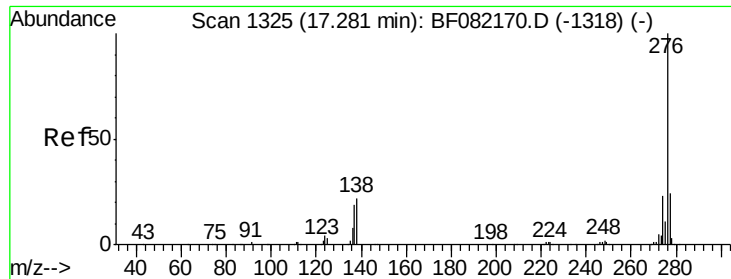


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(a,h,i)perylene

Concen: 5.94 ng

RT: 17.49 min Scan# 1343

Delta R.T. 0.02 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

Instrument :

BNA_F

ClientSampleId :

TK1-2-20151015

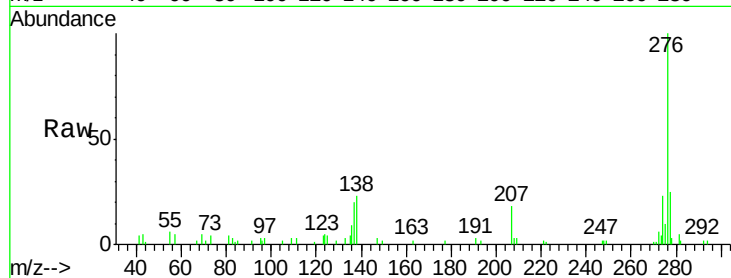
Tot Ion:276 Resp: 54421

Ion Ratio Lower Upper

276 100

277 24.5 18.8 28.2

138 23.3 17.4 26.2



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

