

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
 Data File : BF082330.D
 Acq On : 16 Oct 2015 17:20
 Operator : UM/IZ
 Sample : G4051-04 10X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TK1-3-20151015

Quant Time: Oct 17 01:14:19 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

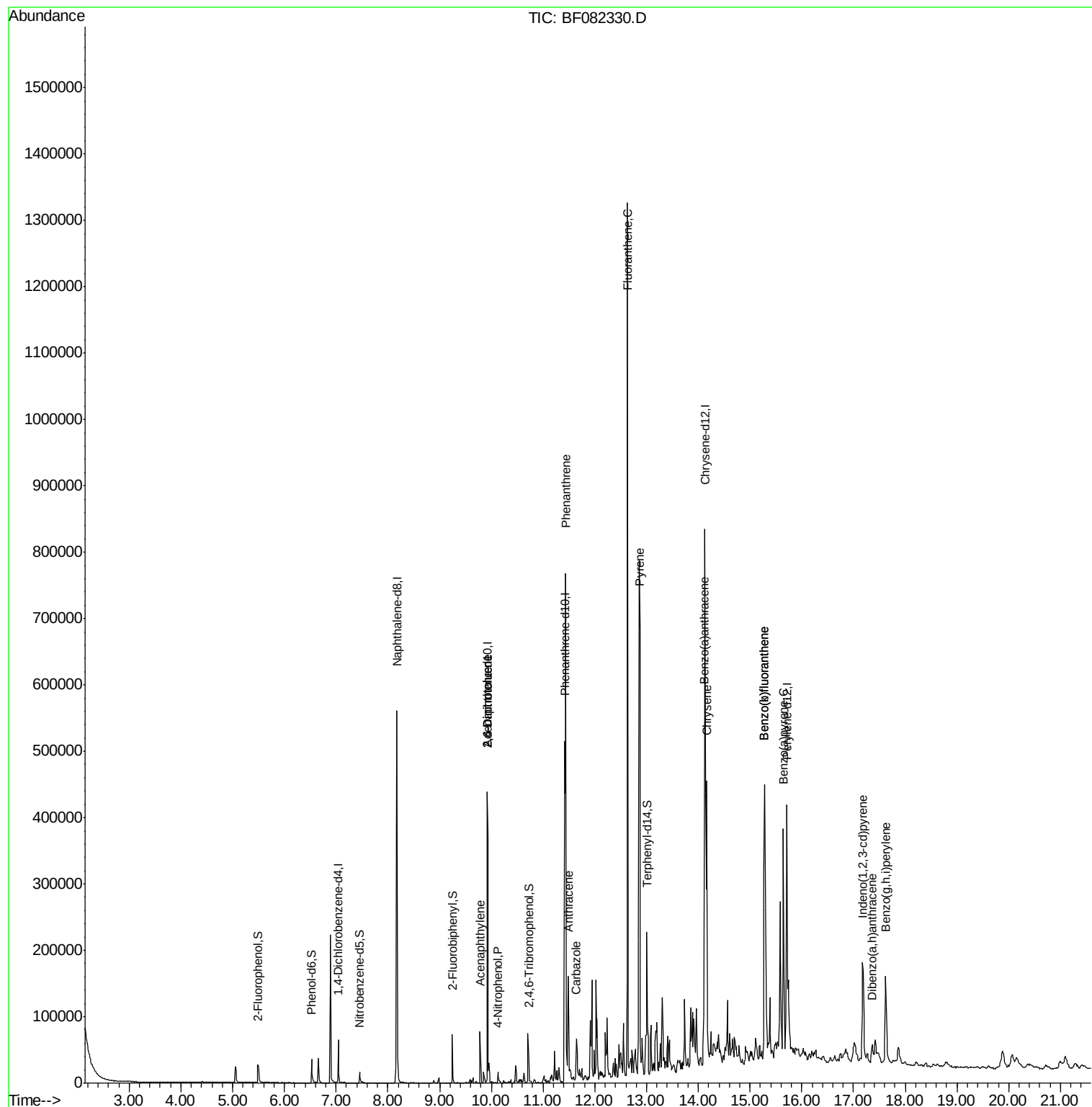
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.04	152	11827	20.00	ng	0.21
21) Naphthalene-d8	8.17	136	251162	20.00	ng	0.05
38) Acenaphthene-d10	9.92	164	129841	20.00	ng	0.03
63) Phenanthrene-d10	11.42	188	286172	20.00	ng	0.05
75) Chrysene-d12	14.13	240	248433	20.00	ng	0.06
86) Perylene-d12	15.72	264	226992	20.00	ng	0.13
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	15510	26.47	ng	0.07
7) Phenol-d6	6.53	99	20348	26.68	ng	0.05
23) Nitrobenzene-d5	7.45	82	11549	3.09	ng	0.03
41) 2,4,6-Tribromophenol	10.72	330	9745	8.00	ng	0.03
44) 2-Fluorobiphenyl	9.25	172	27123	3.46	ng	0.03
78) Terphenyl-d14	13.01	244	70613	7.53	ng	0.05
Target Compounds						Qvalue
48) Acenaphthylene	9.78	152	44327	3.65	ng	99
50) 2,6-Dinitrotoluene	9.92	165	16262	8.43	ng	# 30
55) 4-Nitrophenol	10.13	139	4124	3.09	ng	# 11
56) 2,4-Dinitrotoluene	9.92	165	16260	6.74	ng	# 21
70) Phenanthrene	11.44	178	374532	26.70	ng	98
71) Anthracene	11.49	178	83060	5.75	ng	99
72) Carbazole	11.65	167	45020	3.41	ng	98
74) Fluoranthene	12.63	202	528303	35.07	ng	97
77) Pyrene	12.87	202	478270	32.44	ng	98
80) Benzo(a)anthracene	14.12	228	230018	17.79	ng	97
82) Chrysene	14.16	228	200533	14.72	ng	97
85) Indeno(1,2,3-cd)pyrene	17.18	276	114956	10.62	ng	95
87) Benzo(b)fluoranthene	15.28	252	334807	24.24	ng	99
88) Benzo(k)fluoranthene	15.28	252	334807	28.84	ng	# 99
89) Benzo(a)pyrene	15.65	252	172219	14.51	ng	98
90) Dibenzo(a,h)anthracene	17.36	278	19962	2.05	ng	96
91) Benzo(g,h,i)perylene	17.62	276	113932	12.06	ng	97

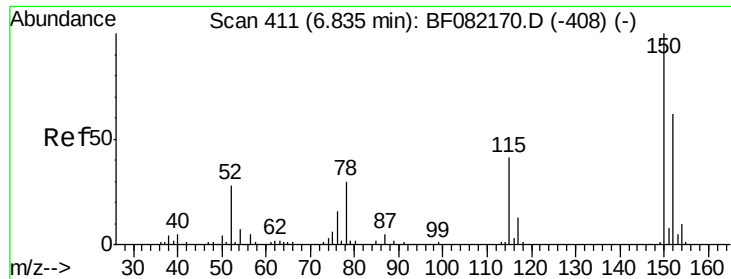
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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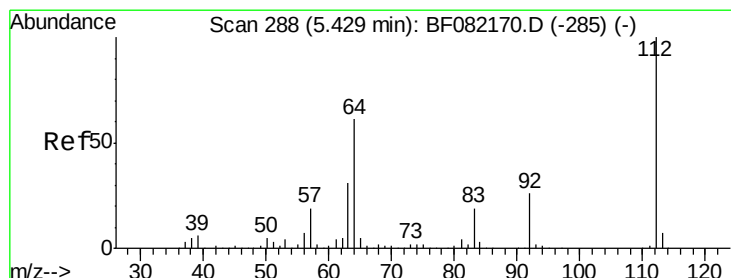
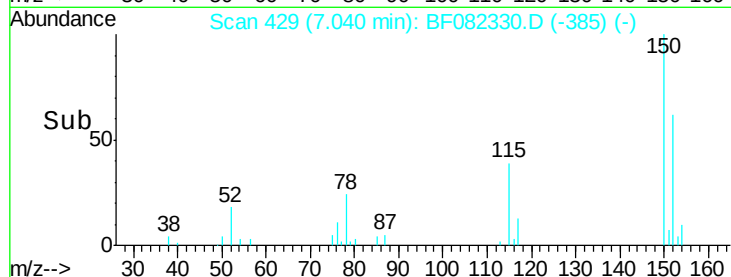
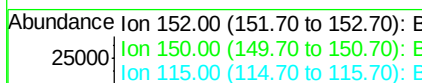
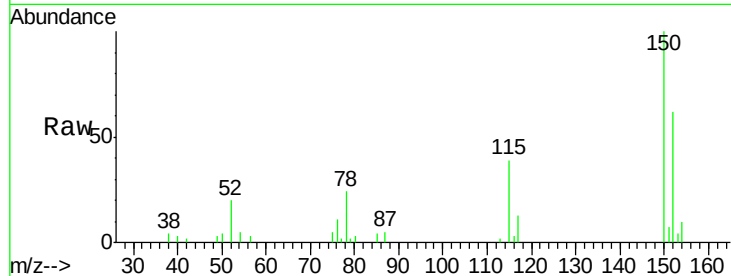


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.04 min Scan# 429
Delta R.T. 0.21 min
Lab File: BF082330.D
Acq: 16 Oct 2015 17:20

Instrument :
BNA_F
ClientSampleId :
TK1-3-20151015

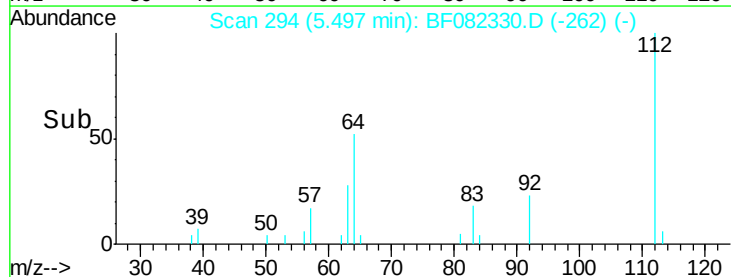
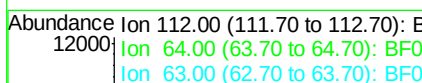
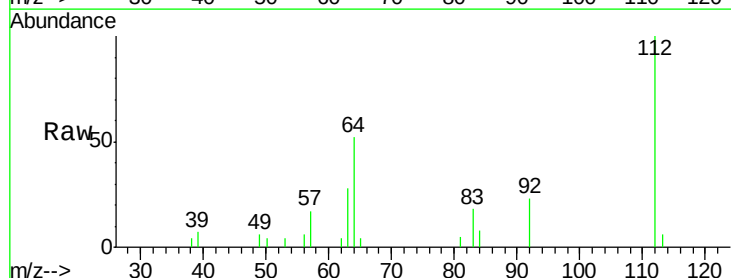
Tot Ion:152 Resp: 11827
Ion Ratio Lower Upper
152 100
150 160.2 129.0 193.4
115 63.2 52.1 78.1

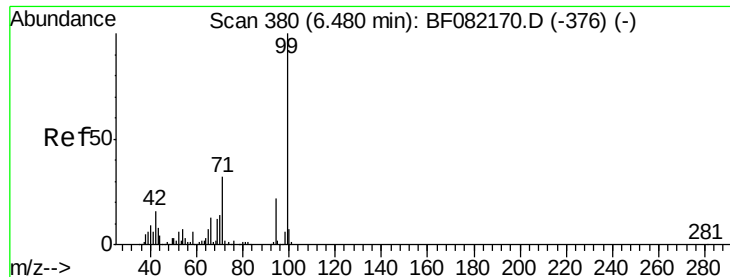


#5

2-Fluorophenol
Concen: 26.47 ng
RT: 5.50 min Scan# 294
Delta R.T. 0.07 min
Lab File: BF082330.D
Acq: 16 Oct 2015 17:20

Tgt Ion:112 Resp: 15510
Ion Ratio Lower Upper
112 100
64 52.3 48.6 73.0
63 28.1 25.1 37.7





#7

Phenol-d6

Concen: 26.68 ng

RT: 6.53 min Scan# 384

Delta R.T. 0.05 min

Lab File: BF082330.D

Acq: 16 Oct 2015 17:20

Instrument :

BNA_F

ClientSampleId :

TK1-3-20151015

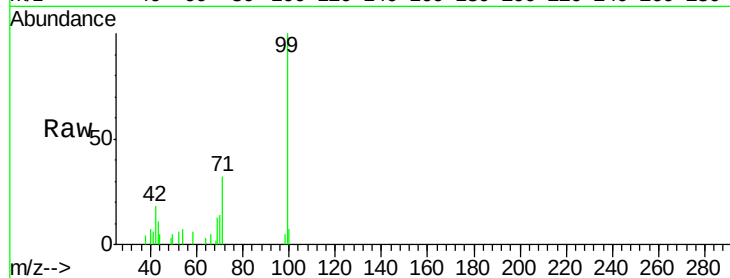
Tot Ion: 99 Resp: 20348

Ion Ratio Lower Upper

99 100

42 17.6 13.2 19.8

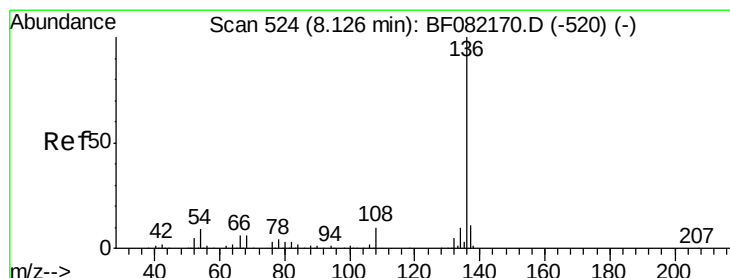
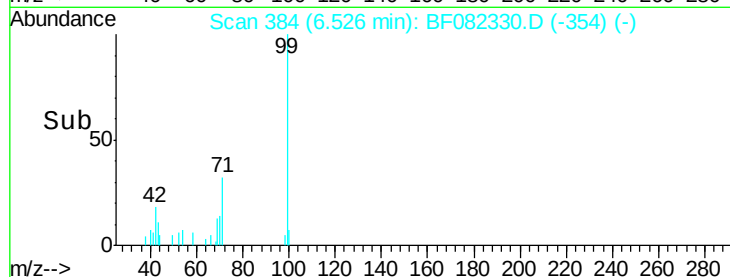
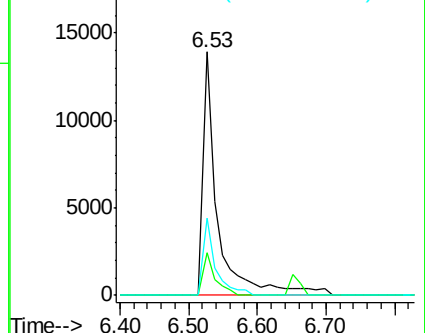
71 31.6 25.6 38.4



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: 8.17 min Scan# 528

Delta R.T. 0.05 min

Lab File: BF082330.D

Acq: 16 Oct 2015 17:20

Tgt Ion: 136 Resp: 251162

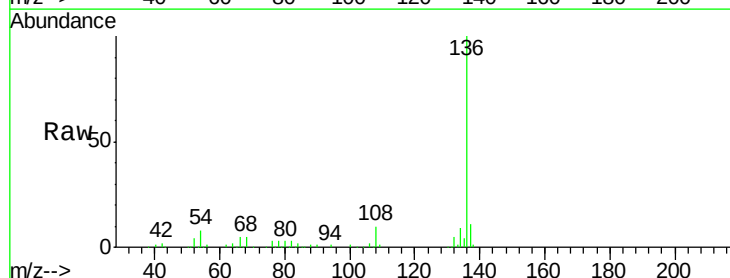
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.6

54 8.1 7.5 11.3

68 5.3 4.6 7.0

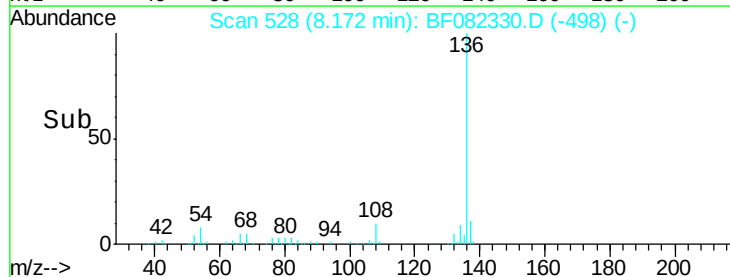
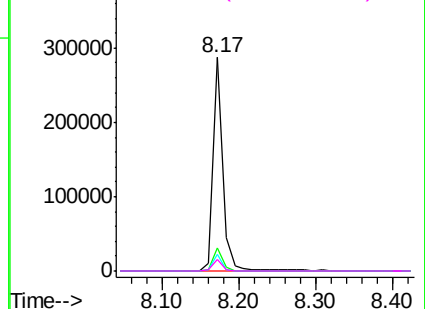


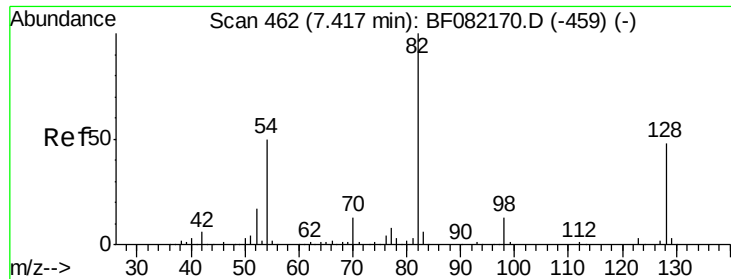
Abundance Ion 136.00 (135.70 to 136.70): E

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

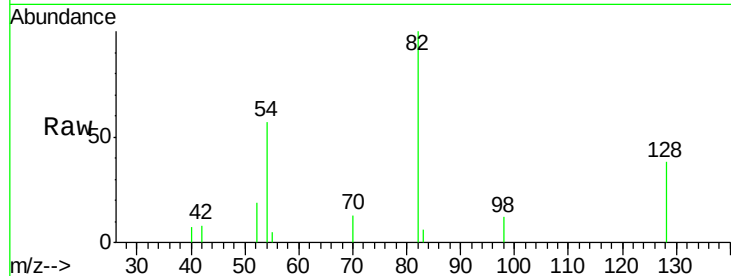




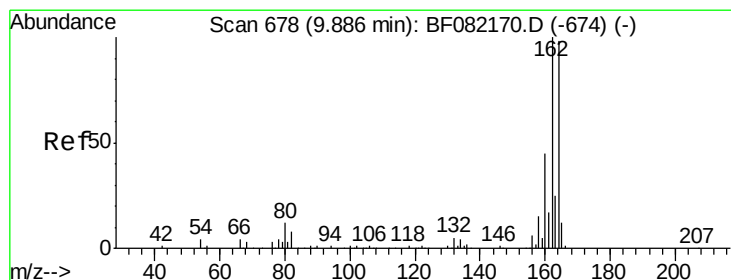
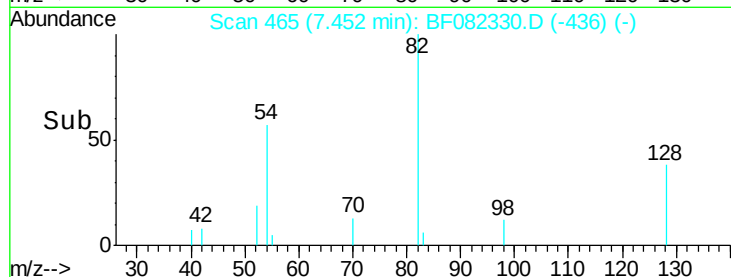
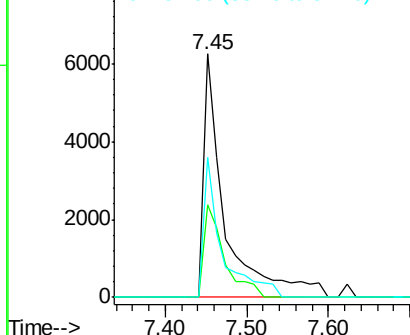
#23
 Nitrobenzene-d5
 Concen: 3.09 ng
 RT: 7.45 min Scan# 465
 Delta R.T. 0.03 min
 Lab File: BF082330.D
 Acq: 16 Oct 2015 17:20

Instrument :
 BNA_F
 ClientSampleID :
 TK1-3-20151015

Tot Ion: 82 Resp: 11549
 Ion Ratio Lower Upper
 82 100
 128 37.9 38.7 58.1#
 54 57.5 40.1 60.1

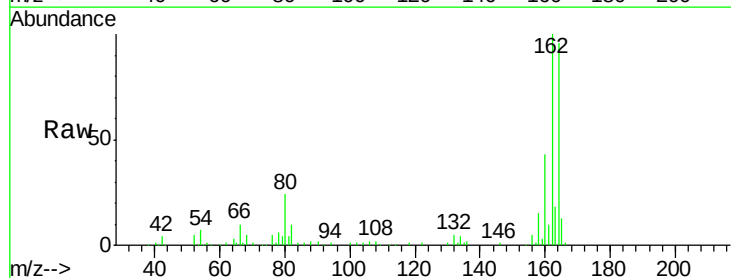


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

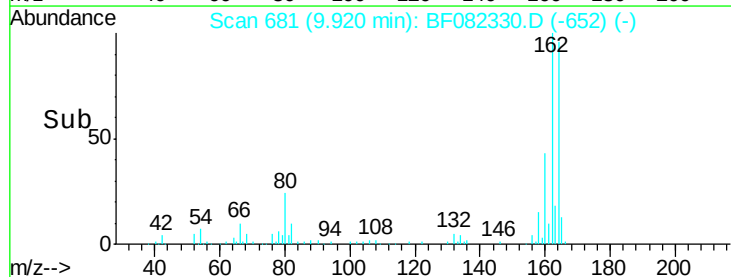
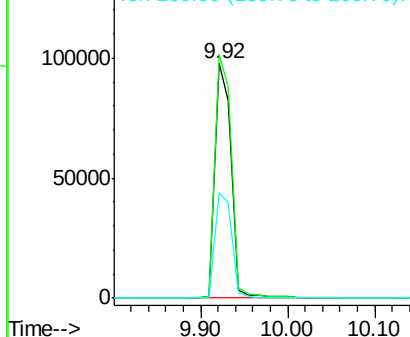


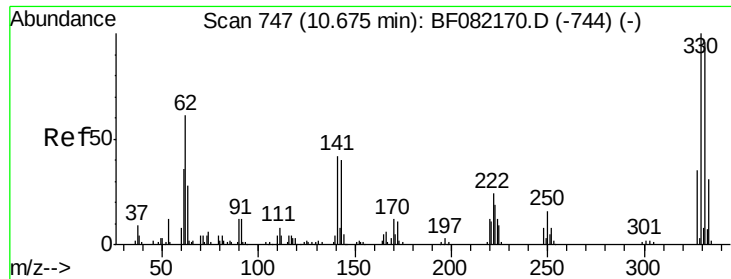
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.92 min Scan# 681
 Delta R.T. 0.03 min
 Lab File: BF082330.D
 Acq: 16 Oct 2015 17:20

Tgt Ion: 164 Resp: 129841
 Ion Ratio Lower Upper
 164 100
 162 104.0 81.6 122.4
 160 44.9 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

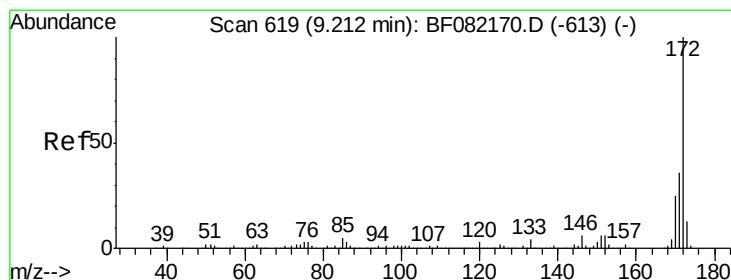
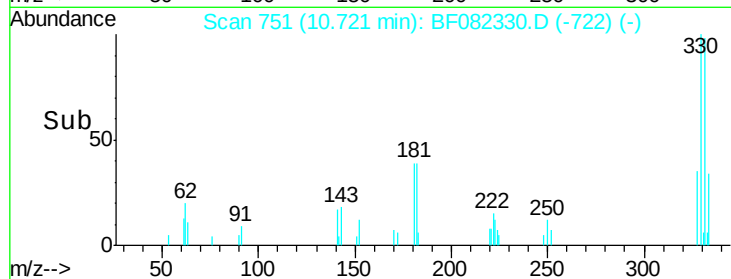
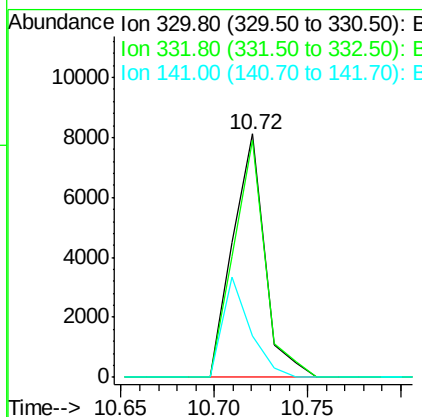
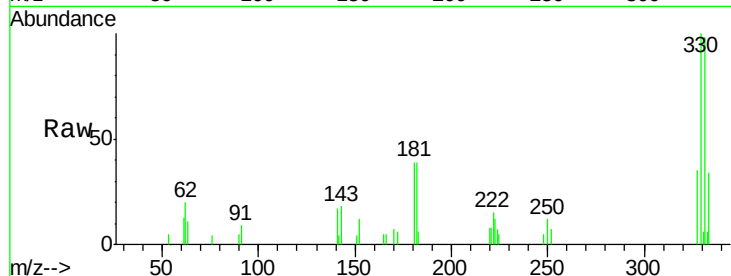




#41
 2,4,6-Tribromophenol
 Concen: 8.00 ng
 RT: 10.72 min Scan# 751
 Delta R.T. 0.03 min
 Lab File: BF082330.D
 Acq: 16 Oct 2015 17:20

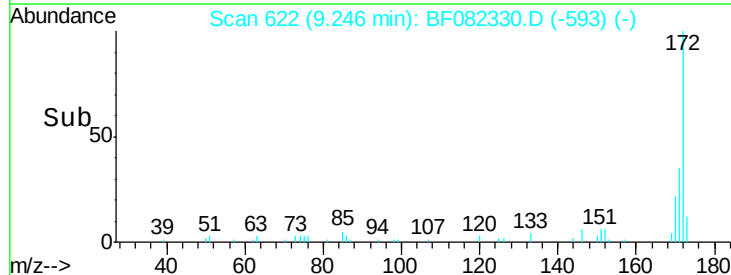
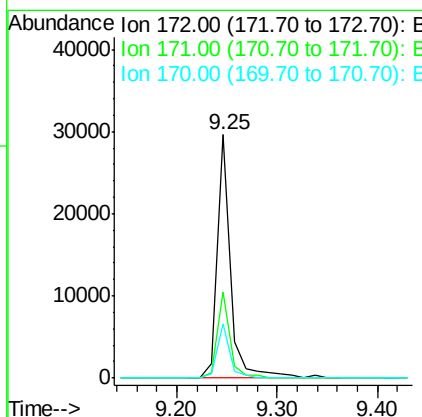
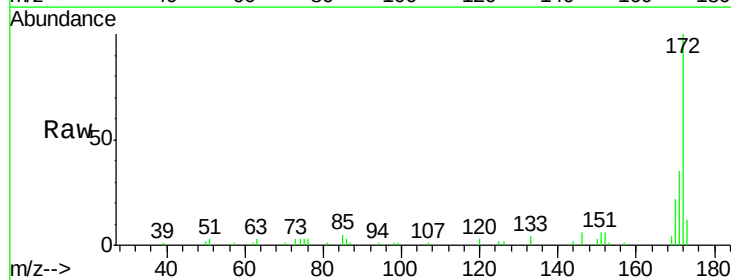
Instrument :
 BNA_F
 ClientSampleId :
 TK1-3-20151015

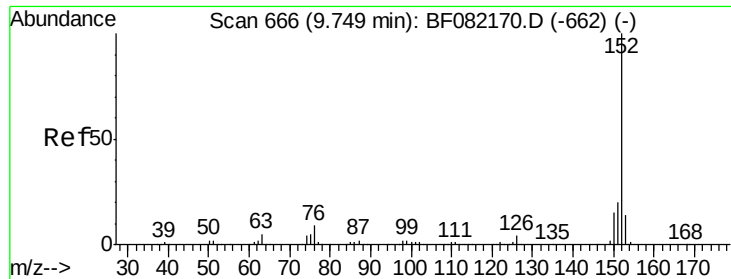
Tot Ion	Ratio	Lower	Upper
330	100		
332	95.7	77.1	115.7
141	35.3	29.8	44.8



#44
 2-Fluorobiphenyl
 Concen: 3.46 ng
 RT: 9.25 min Scan# 622
 Delta R.T. 0.03 min
 Lab File: BF082330.D
 Acq: 16 Oct 2015 17:20

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	42.8
170	22.4	19.7	29.5





#48

Acenaphthylene

Concen: 3.65 ng

RT: 9.78 min Scan# 669

Delta R.T. 0.03 min

Lab File: BF082330.D

Acq: 16 Oct 2015 17:20

Instrument :

BNA_F

ClientSampleId :

TK1-3-20151015

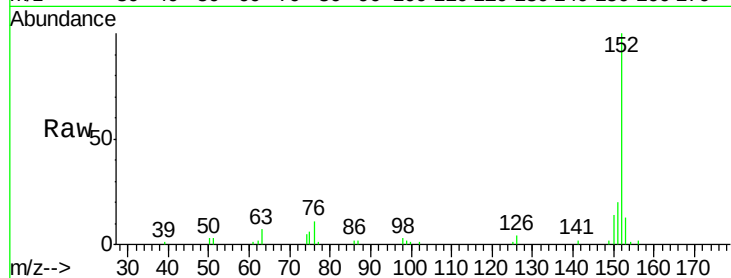
Tot Ion:152 Resp: 44327

Ion Ratio Lower Upper

152 100

151 19.9 16.4 24.6

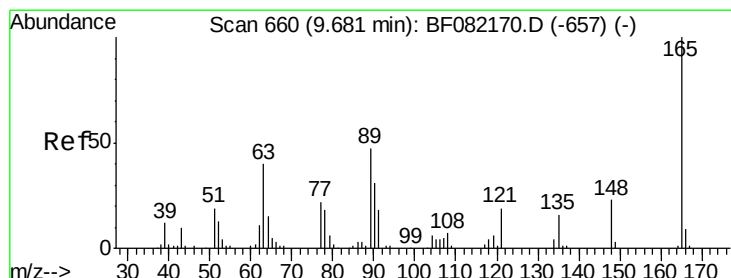
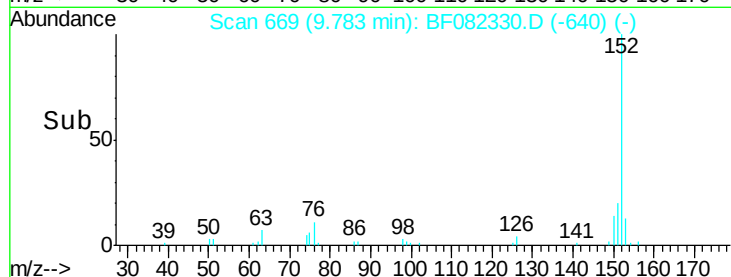
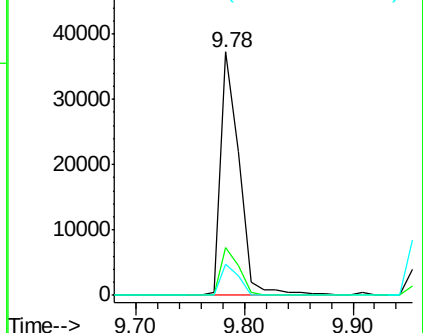
153 12.9 10.8 16.2



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



#50

2,6-Dinitrotoluene

Concen: 8.43 ng

RT: 9.92 min Scan# 681

Delta R.T. 0.24 min

Lab File: BF082330.D

Acq: 16 Oct 2015 17:20

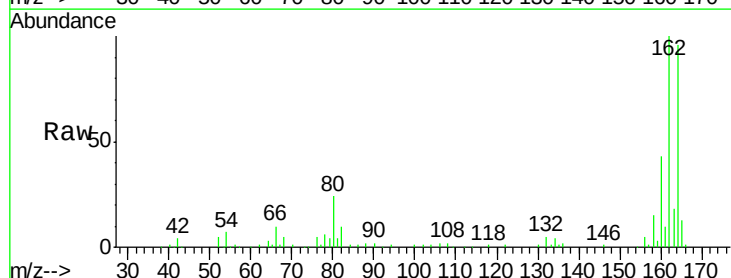
Tgt Ion:165 Resp: 16262

Ion Ratio Lower Upper

165 100

63 0.0 36.7 55.1#

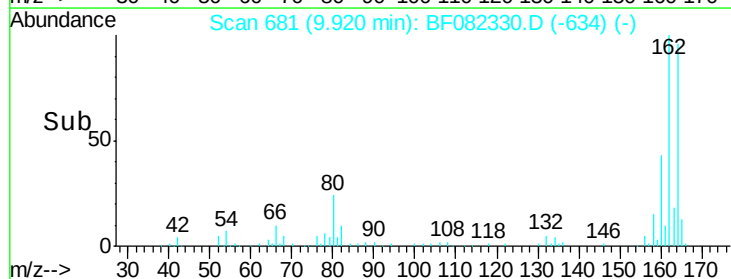
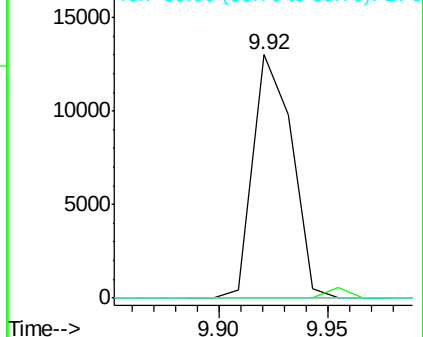
89 0.0 37.8 56.6#

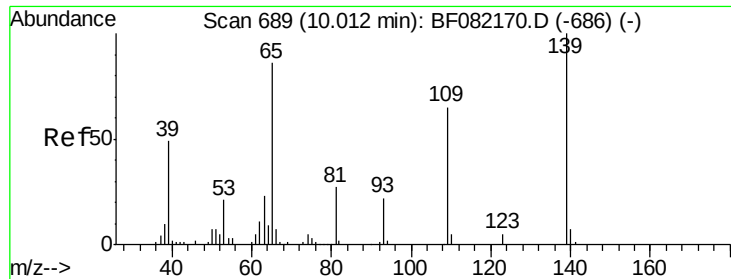


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

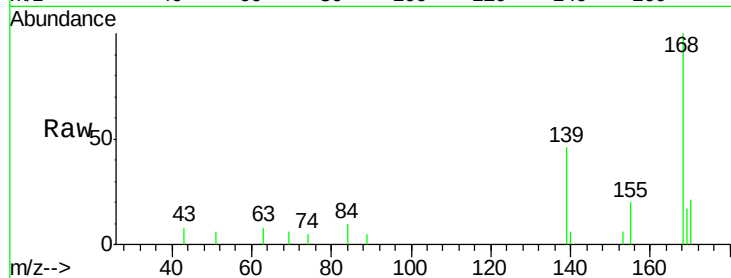




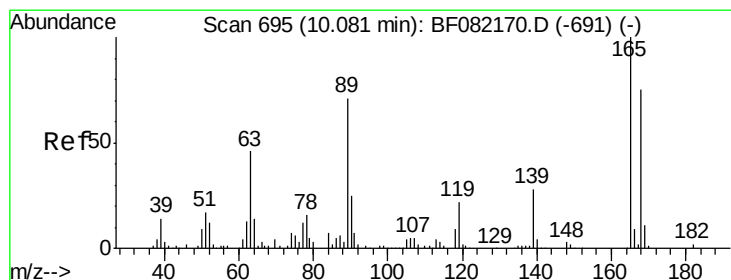
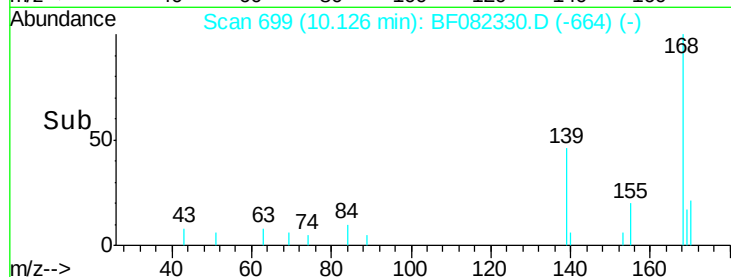
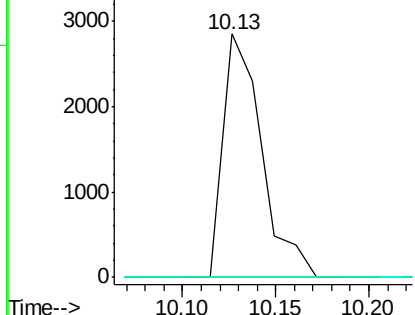
#55
4-Nitrophenol
Concen: 3.09 ng
RT: 10.13 min Scan# 699
Delta R.T. 0.10 min
Lab File: BF082330.D
Acq: 16 Oct 2015 17:20

Instrument :
BNA_F
ClientSampleId :
TK1-3-20151015

Tot Ion:139 Resp: 4124
Ion Ratio Lower Upper
139 100
109 0.0 44.8 84.8#
65 0.0 67.7 107.7#

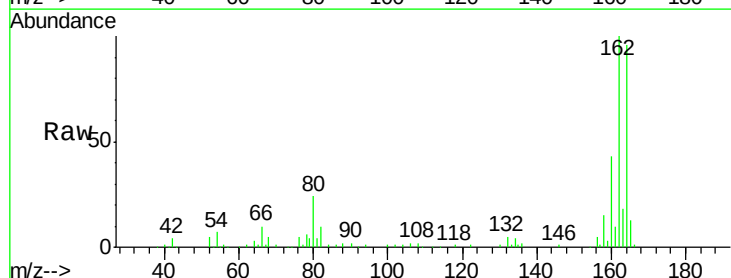


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

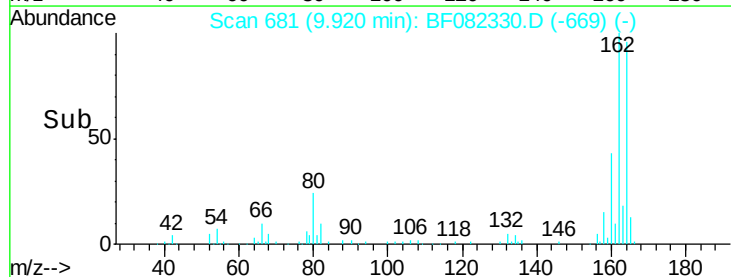
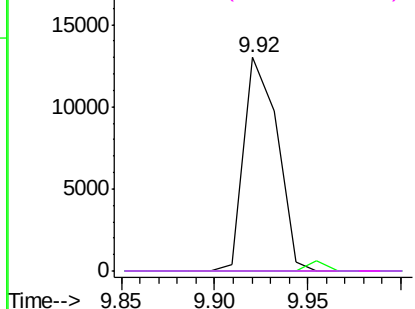


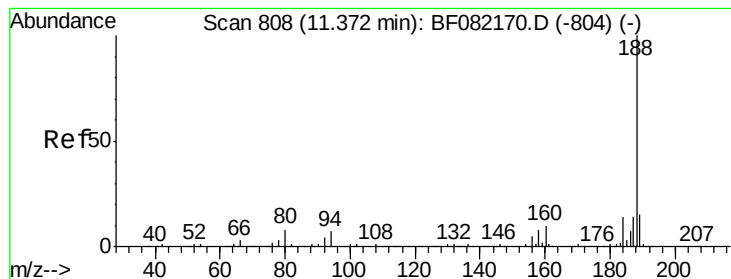
#56
2,4-Dinitrotoluene
Concen: 6.74 ng
RT: 9.92 min Scan# 681
Delta R.T. -0.16 min
Lab File: BF082330.D
Acq: 16 Oct 2015 17:20

Tgt Ion:165 Resp: 16260
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: BF082330.D

Acq: 16 Oct 2015 17:20

Instrument :

BNA_F

ClientSampleId :

TK1-3-20151015

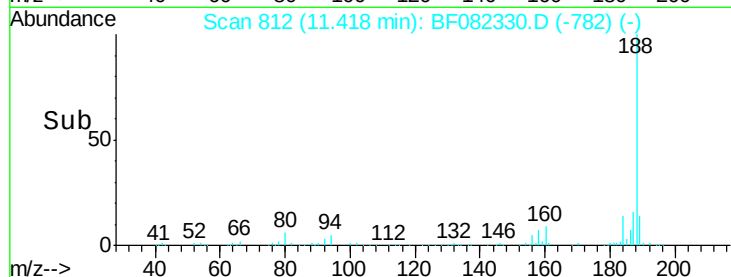
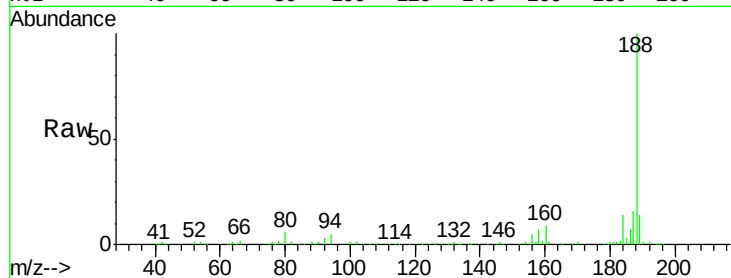
Tot Ion:188 Resp: 286172

Ion Ratio Lower Upper

188 100

94 5.4 5.8 8.6#

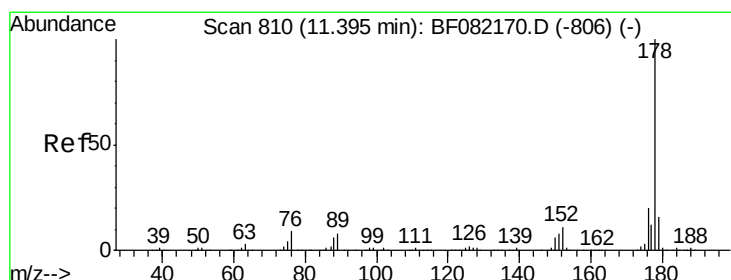
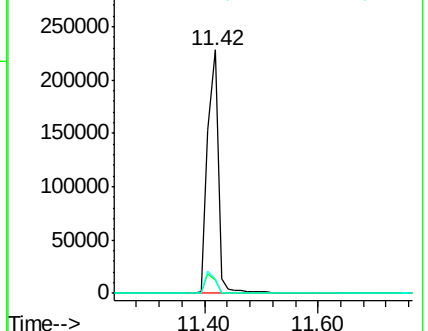
80 5.8 6.4 9.6#



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: 26.70 ng

RT: 11.44 min Scan# 814

Delta R.T. 0.05 min

Lab File: BF082330.D

Acq: 16 Oct 2015 17:20

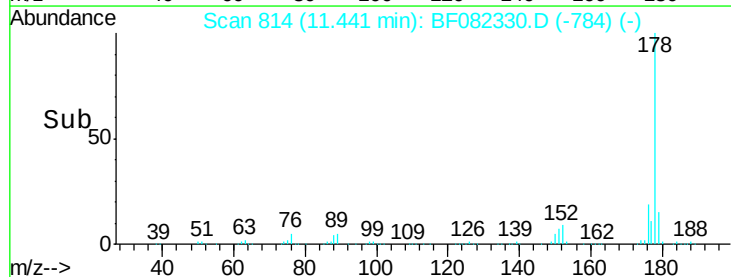
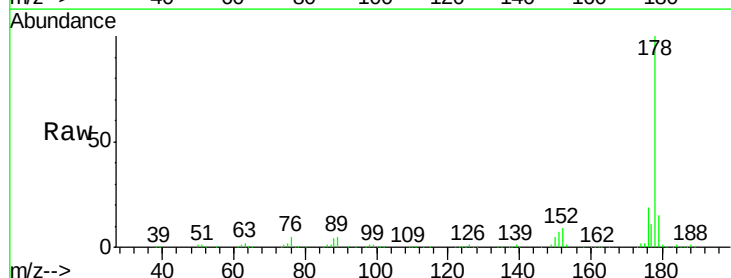
Tgt Ion:178 Resp: 374532

Ion Ratio Lower Upper

178 100

176 18.8 16.0 24.0

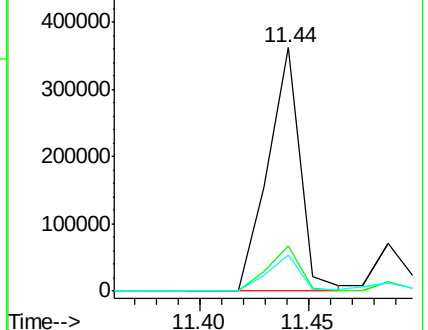
179 14.9 12.6 19.0

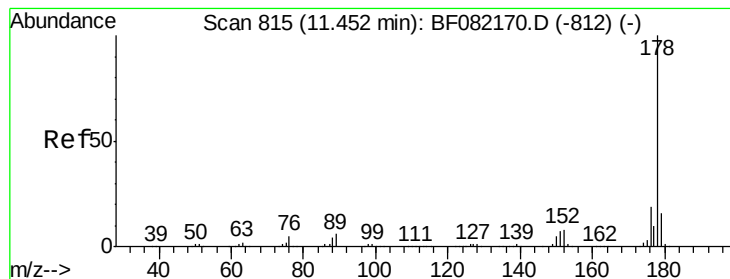


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 5.75 ng

RT: 11.49 min Scan# 818

Delta R.T. 0.03 min

Lab File: BF082330.D

Acq: 16 Oct 2015 17:20

Instrument :

BNA_F

ClientSampleId :

TK1-3-20151015

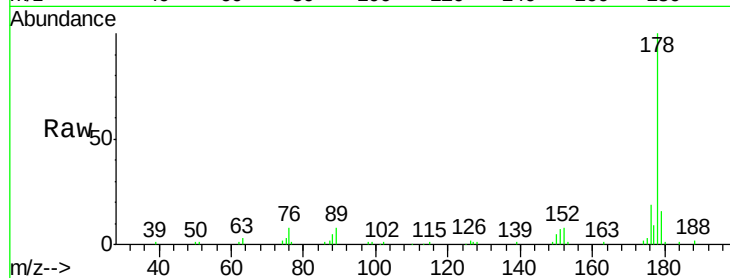
Tot Ion:178 Resp: 83060

Ion Ratio Lower Upper

178 100

176 18.6 15.4 23.0

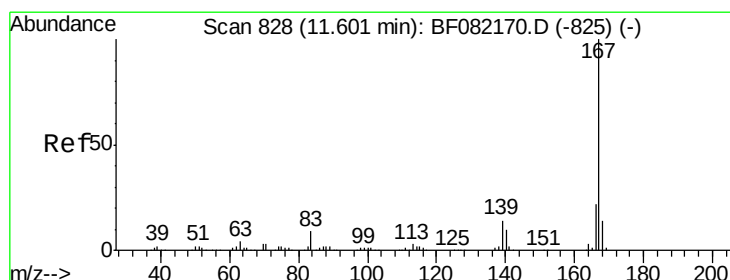
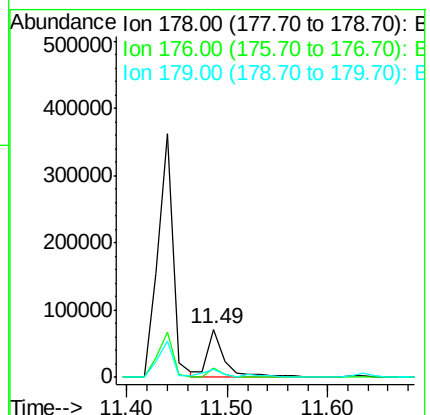
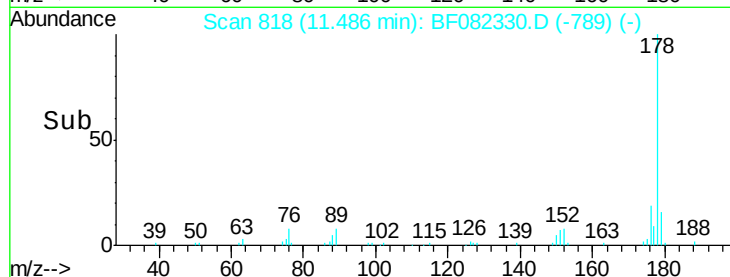
179 16.2 12.5 18.7



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



#72

Carbazole

Concen: 3.41 ng

RT: 11.65 min Scan# 832

Delta R.T. 0.03 min

Lab File: BF082330.D

Acq: 16 Oct 2015 17:20

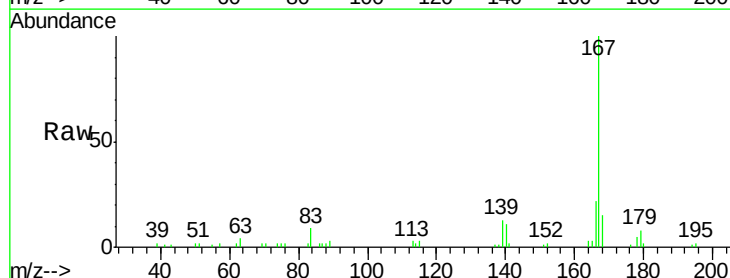
Tgt Ion:167 Resp: 45020

Ion Ratio Lower Upper

167 100

166 22.2 17.3 25.9

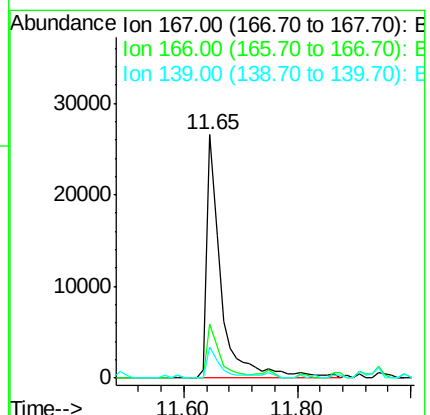
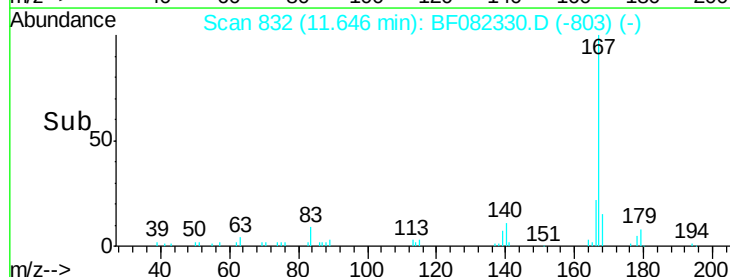
139 12.9 11.2 16.8

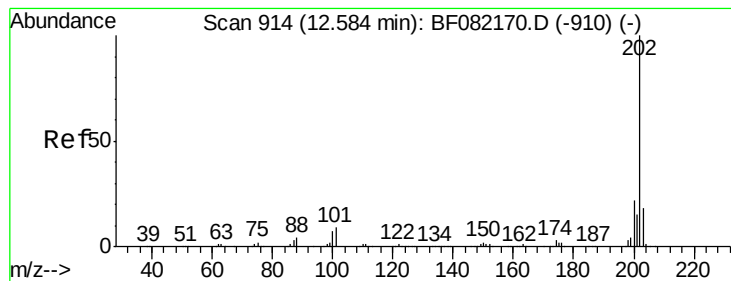


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

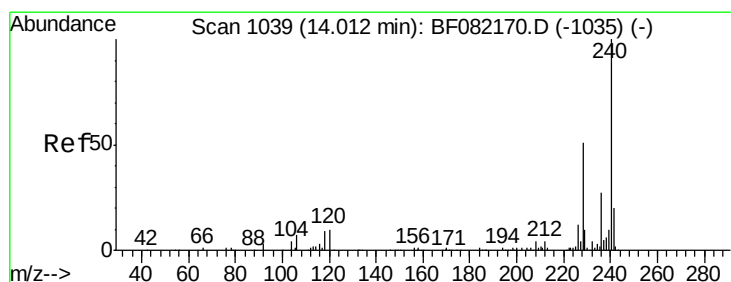
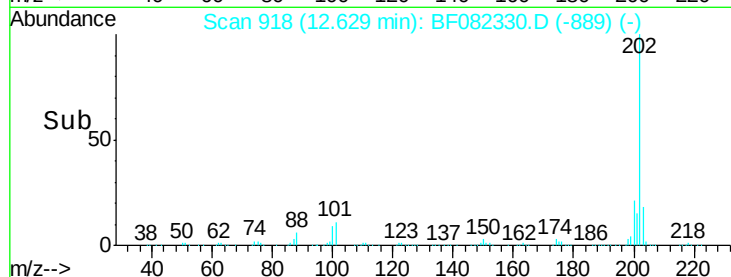
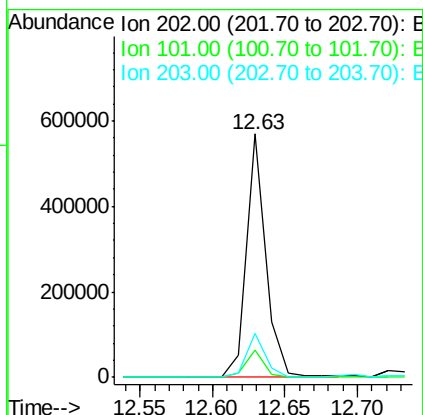
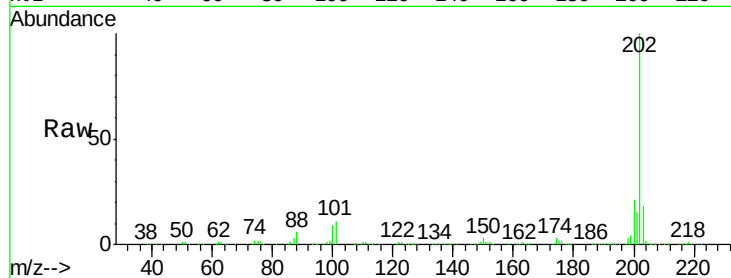




#74
 Fluoranthene
 Concen: 35.07 ng
 RT: 12.63 min Scan# 918
 Delta R.T. 0.03 min
 Lab File: BF082330.D
 Acq: 16 Oct 2015 17:20

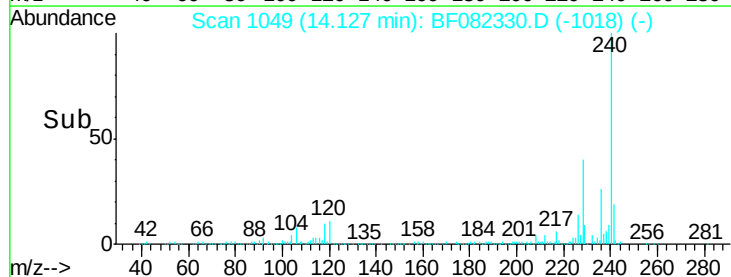
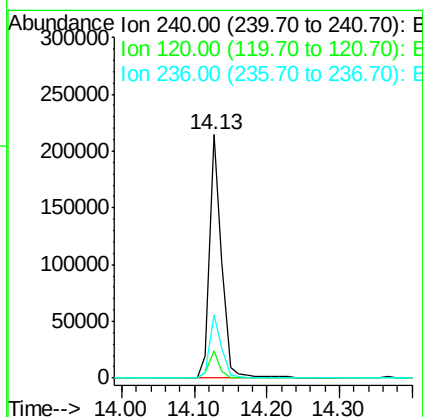
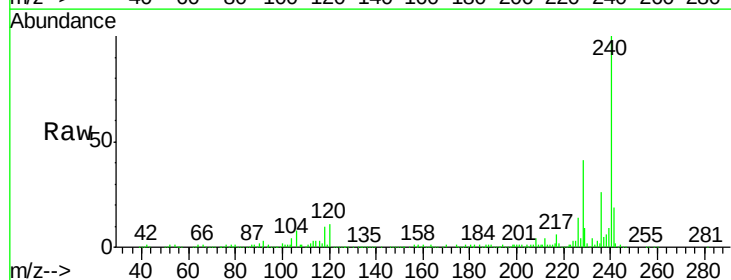
Instrument :
 BNA_F
 ClientSampleId :
 TK1-3-20151015

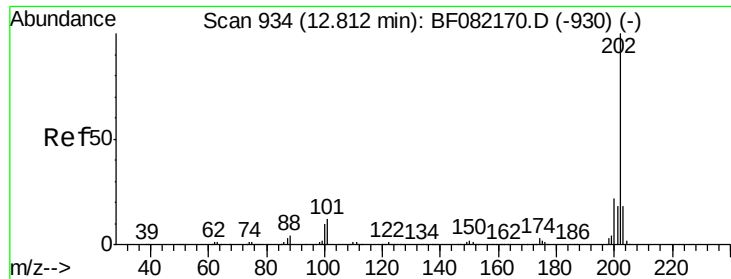
Tot Ion	Ratio	Lower	Upper
202	100		
101	11.2	0.0	29.3
203	18.3	0.0	37.8



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.13 min Scan# 1049
 Delta R.T. 0.06 min
 Lab File: BF082330.D
 Acq: 16 Oct 2015 17:20

Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.1	8.1	12.1
236	25.7	21.3	31.9

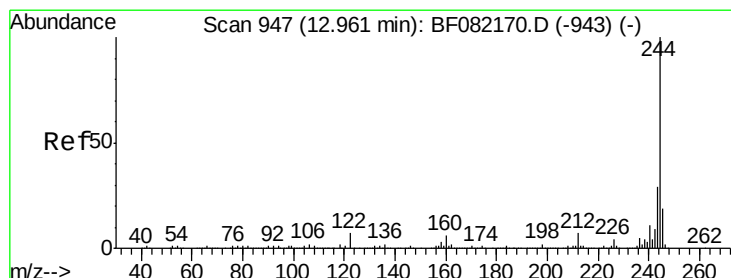
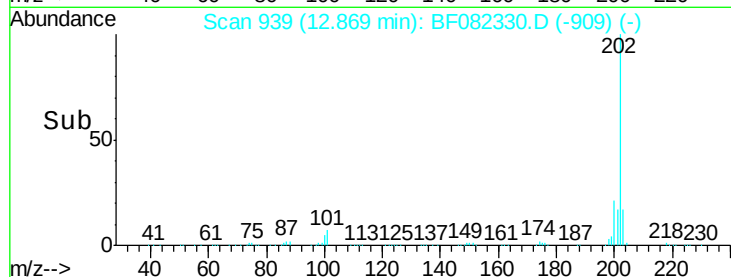
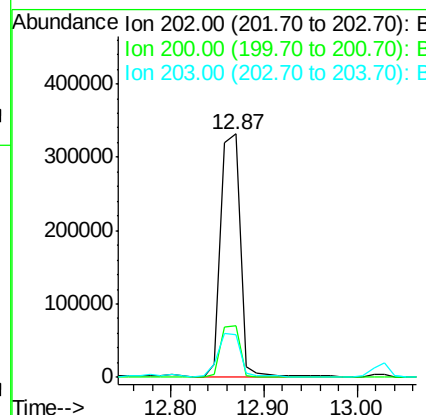
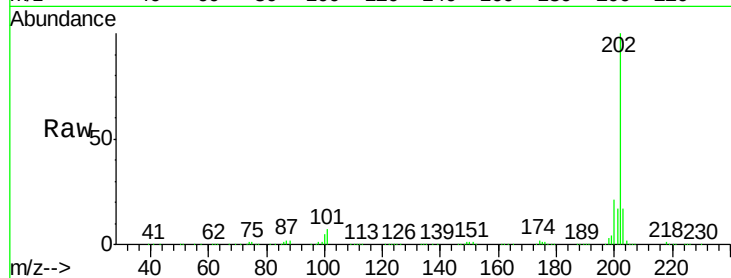




#77
 Pvrene
 Concen: 32.44 ng
 RT: 12.87 min Scan# 939
 Delta R.T. 0.05 min
 Lab File: BF082330.D
 Acq: 16 Oct 2015 17:20

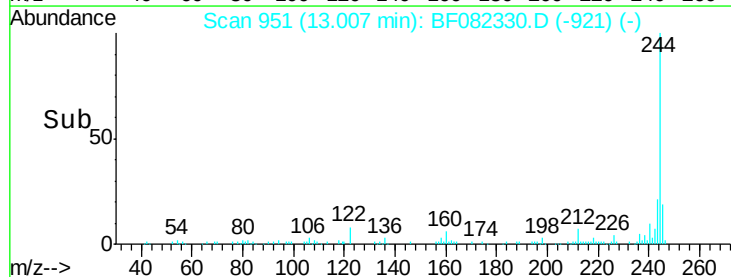
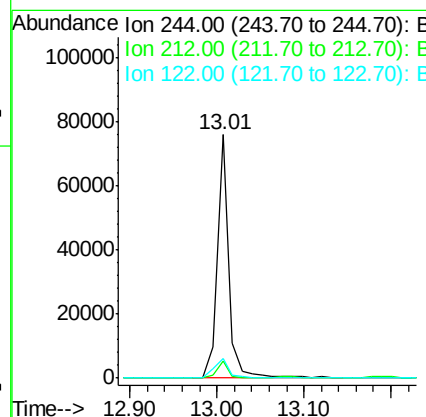
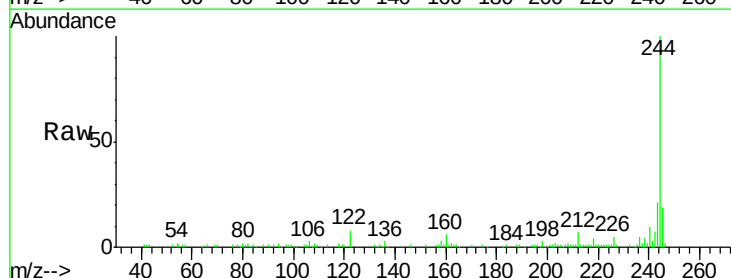
Instrument :
 BNA_F
 ClientSampleId :
 TK1-3-20151015

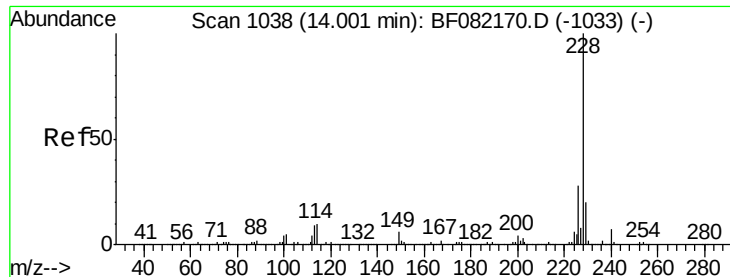
Tot Ion:202 Resp: 478270
 Ion Ratio Lower Upper
 202 100
 200 21.0 17.9 26.9
 203 17.3 14.5 21.7



#78
 Terphenyl-d14
 Concen: 7.53 ng
 RT: 13.01 min Scan# 951
 Delta R.T. 0.05 min
 Lab File: BF082330.D
 Acq: 16 Oct 2015 17:20

Tgt Ion:244 Resp: 70613
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.8 8.6
 122 8.3 5.9 8.9





#80

Benzo(a)anthracene

Concen: 17.79 ng

RT: 14.12 min Scan# 1048

Delta R.T. 0.06 min

Lab File: BF082330.D

Acq: 16 Oct 2015 17:20

Instrument :

BNA_F

ClientSampleId :

TK1-3-20151015

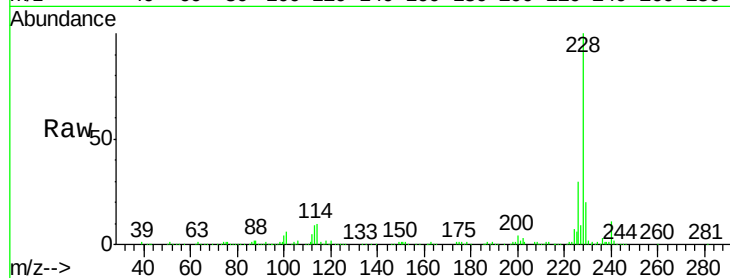
Tot Ion:228 Resp: 230018

Ion Ratio Lower Upper

228 100

226 30.2 22.3 33.5

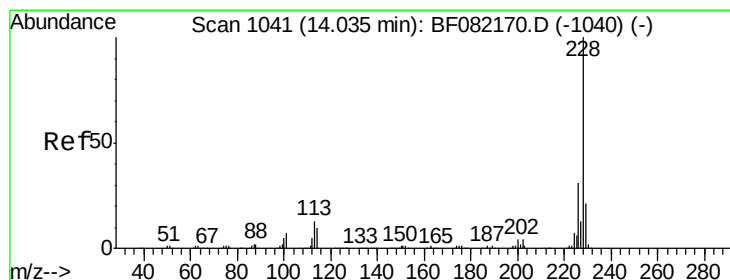
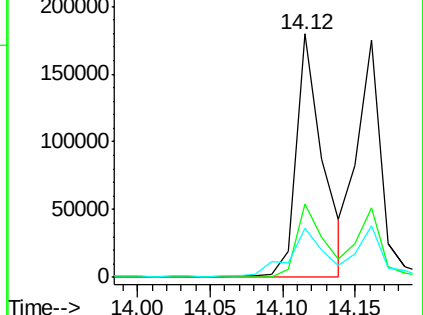
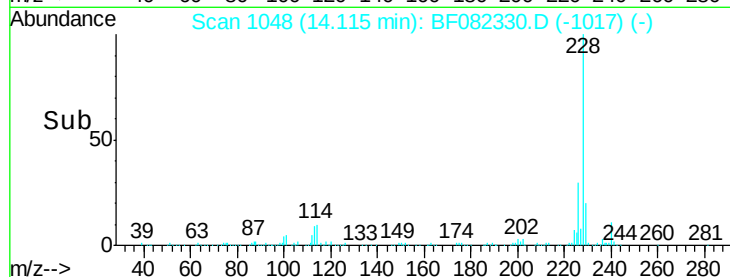
229 20.2 16.2 24.2



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: 14.72 ng

RT: 14.16 min Scan# 1052

Delta R.T. 0.07 min

Lab File: BF082330.D

Acq: 16 Oct 2015 17:20

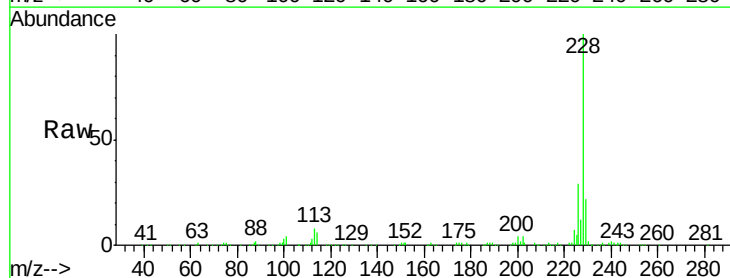
Tgt Ion:228 Resp: 200533

Ion Ratio Lower Upper

228 100

226 29.2 24.4 36.6

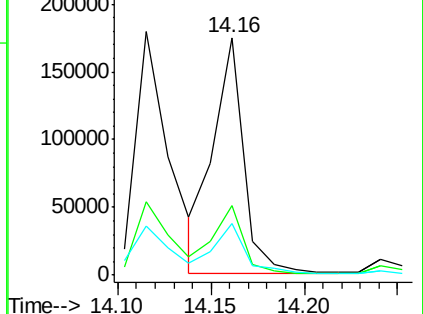
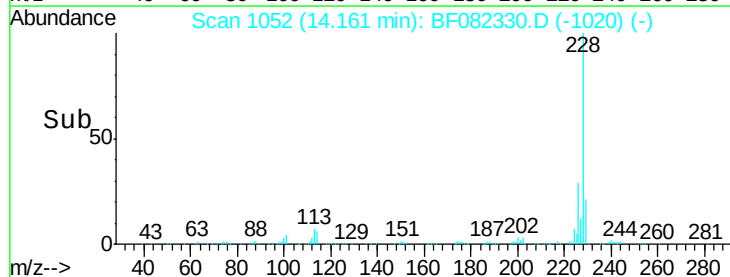
229 21.9 16.3 24.5

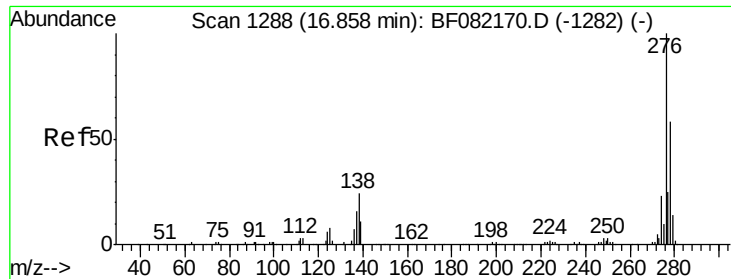


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

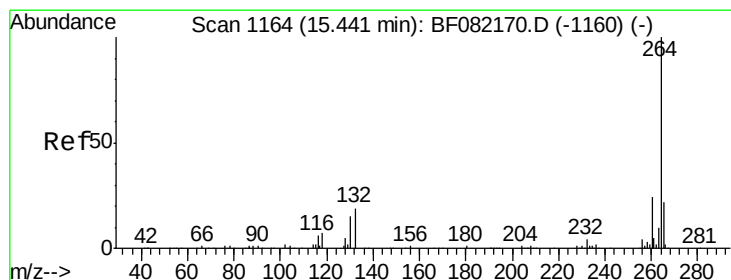
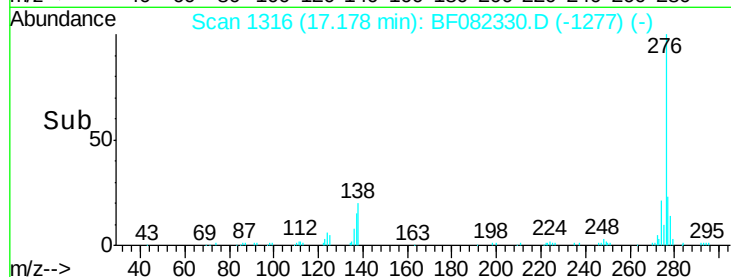
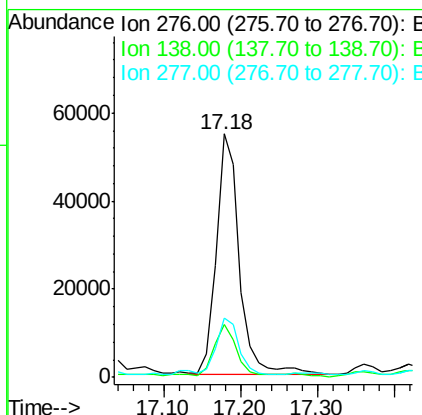
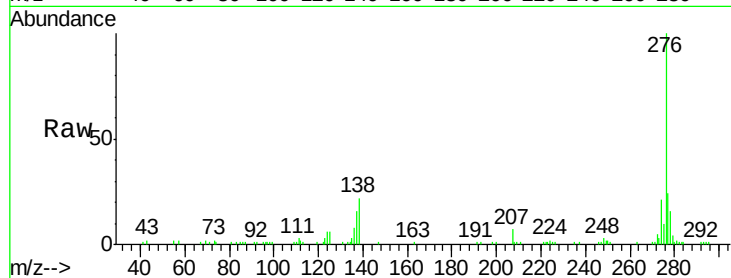




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 10.62 ng
 RT: 17.18 min Scan# 1316
 Delta R.T. 0.15 min
 Lab File: BF082330.D
 Acq: 16 Oct 2015 17:20

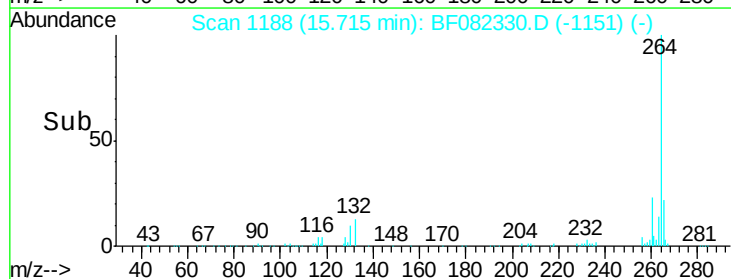
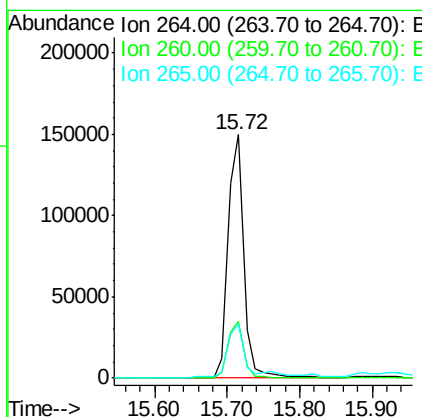
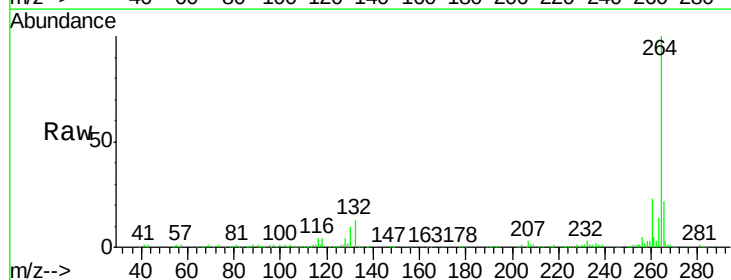
Instrument :
 BNA_F
 ClientSampleId :
 TK1-3-20151015

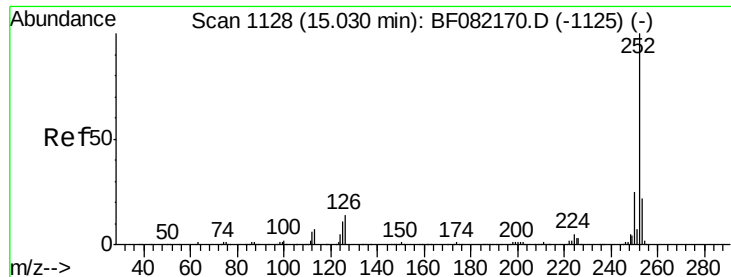
Tot Ion	Ratio	Lower	Upper
276	100		
138	20.2	19.7	29.5
277	24.7	20.1	30.1



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.72 min Scan# 1188
 Delta R.T. 0.13 min
 Lab File: BF082330.D
 Acq: 16 Oct 2015 17:20

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.0	28.6
265	22.0	17.3	25.9

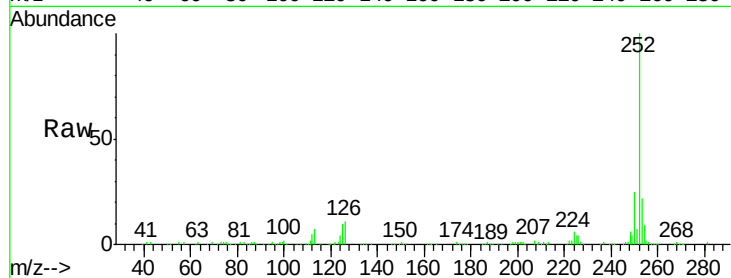




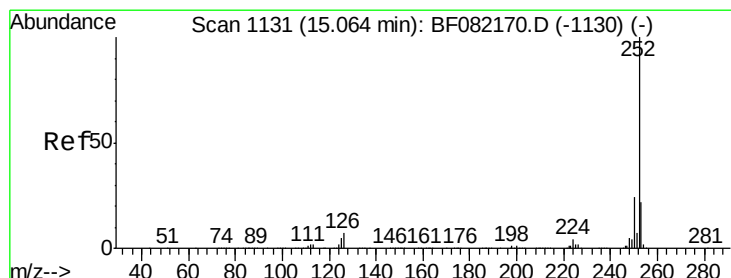
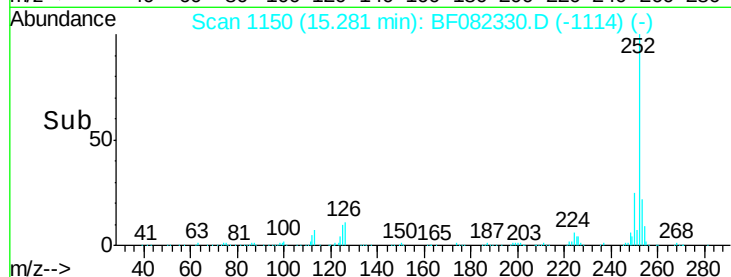
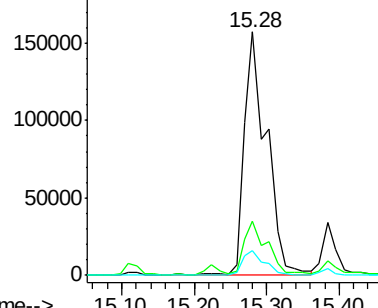
#87
Benzo(b)fluoranthene
Concen: 24.24 ng
RT: 15.28 min Scan# 1150
Delta R.T. 0.11 min
Lab File: BF082330.D
Acq: 16 Oct 2015 17:20

Instrument :
BNA_F
ClientSampleId :
TK1-3-20151015

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.0	27.0
125	10.2	8.6	12.8

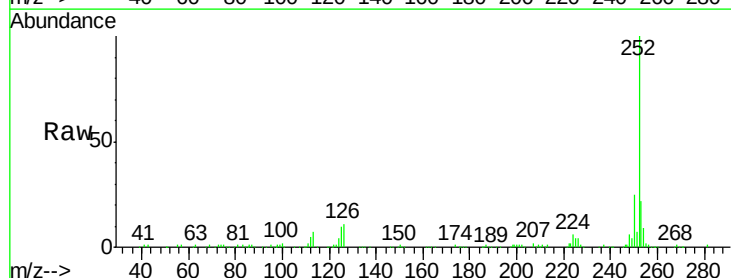


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

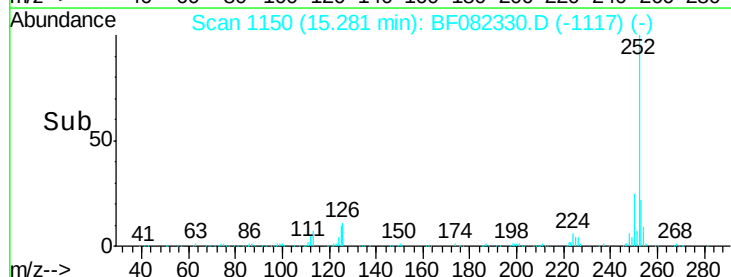
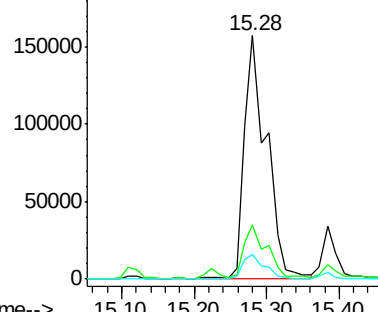


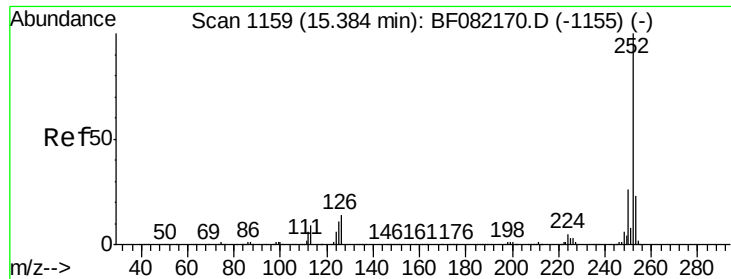
#88
Benzo(k)fluoranthene
Concen: 28.84 ng
RT: 15.28 min Scan# 1150
Delta R.T. 0.08 min
Lab File: BF082330.D
Acq: 16 Oct 2015 17:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.6
125	10.2	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

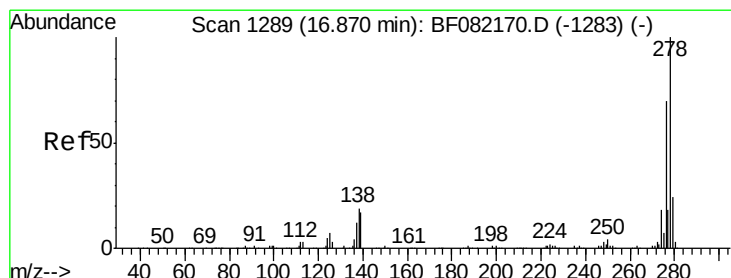
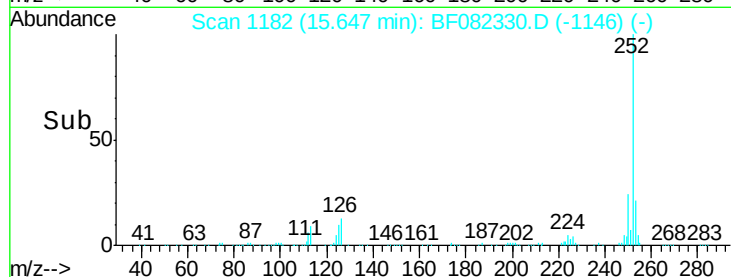
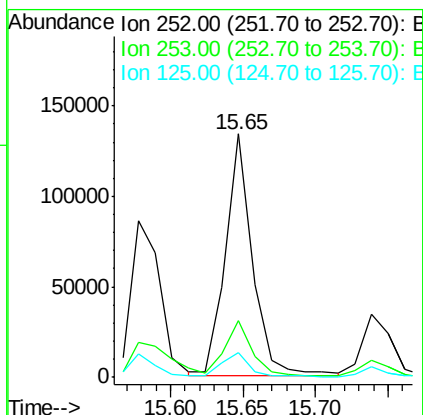
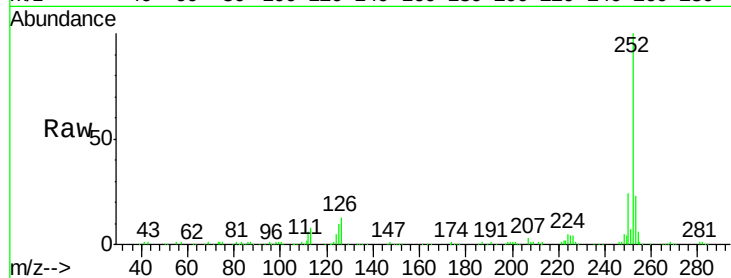




#89
Benzo(a)pyrene
Concen: 14.51 ng
RT: 15.65 min Scan# 1182
Delta R.T. 0.11 min
Lab File: BF082330.D
Acq: 16 Oct 2015 17:20

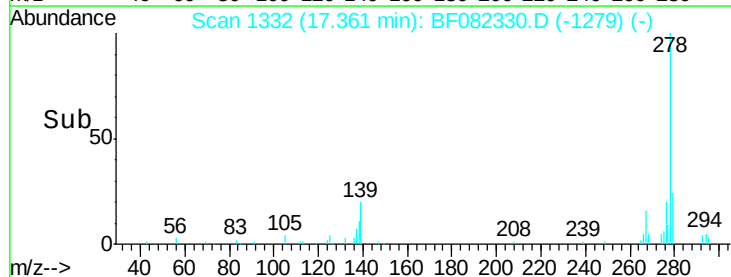
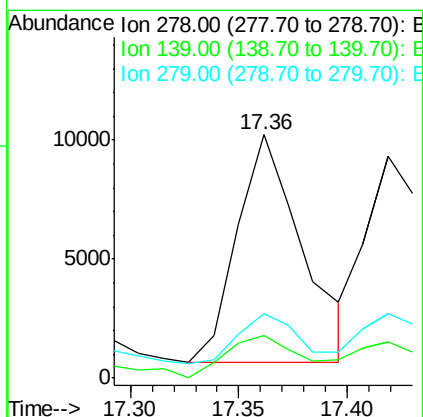
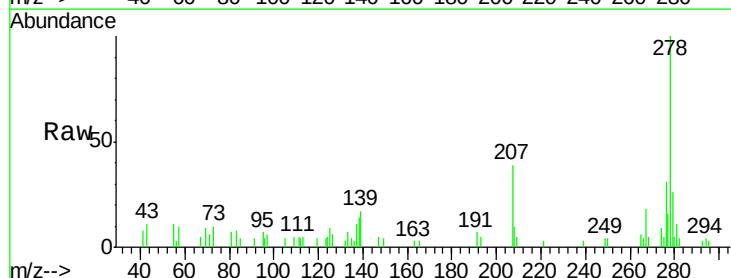
Instrument :
BNA_F
ClientSampleId :
TK1-3-20151015

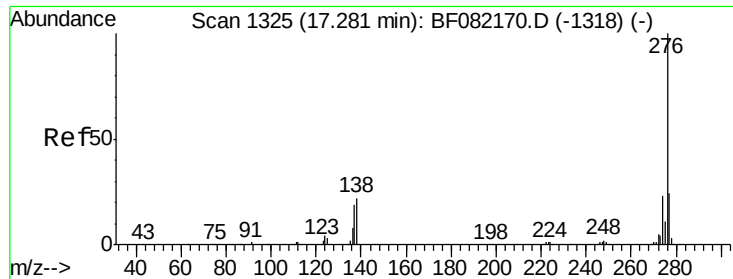
Tot Ion:252 Resp: 172219
Ion Ratio Lower Upper
252 100
253 23.5 18.2 27.2
125 10.2 8.9 13.3



#90
Dibenzo(a,h)anthracene
Concen: 2.05 ng
RT: 17.36 min Scan# 1332
Delta R.T. 0.31 min
Lab File: BF082330.D
Acq: 16 Oct 2015 17:20

Tgt Ion:278 Resp: 19962
Ion Ratio Lower Upper
278 100
139 17.3 13.3 19.9
279 26.2 18.9 28.3





#91

Benzo(a,h,i)perylene

Concen: 12.06 ng

RT: 17.62 min Scan# 1355

Delta R.T. 0.16 min

Lab File: BF082330.D

Acq: 16 Oct 2015 17:20

Instrument :

BNA_F

ClientSampleId :

TK1-3-20151015

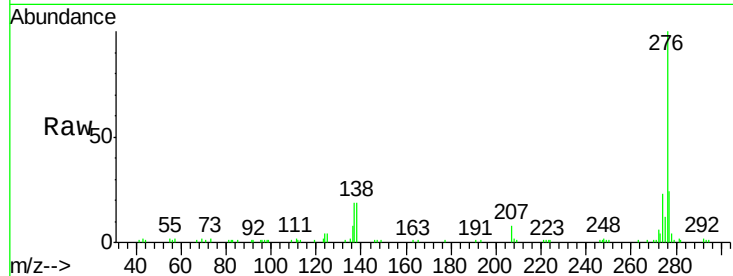
Tot Ion:276 Resp: 113932

Ion Ratio Lower Upper

276 100

277 24.4 18.8 28.2

138 19.5 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

