

Data Path : Z:\HPCHEM1\BNA F\DATA\BF070116\
 Data File : BF088572.D
 Acq On : 1 Jul 2016 13:52
 Operator : UM/SJ
 Sample : H3808-19 5X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 01 14:37:11 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 30 18:01:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	147209	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	561781	20.00	ng	-0.01
38) Acenaphthene-d10	9.84	164	245405	20.00	ng	-0.01
63) Phenanthrene-d10	11.32	188	443029	20.00	ng	0.00
75) Chrysene-d12	13.94	240	278628	20.00	ng	-0.01
86) Perylene-d12	15.35	264	292128	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.39	112	203174	20.68	ng	-0.01
7) Phenol-d6	6.43	99	263284	20.74	ng	-0.01
23) Nitrobenzene-d5	7.36	82	144795	13.51	ng	-0.02
41) 2,4,6-Tribromophenol	10.63	330	44469	19.51	ng	-0.01
44) 2-Fluorobiphenyl	9.16	172	244293	15.72	ng	-0.01
78) Terphenyl-d14	12.90	244	175005	13.99	ng	-0.01

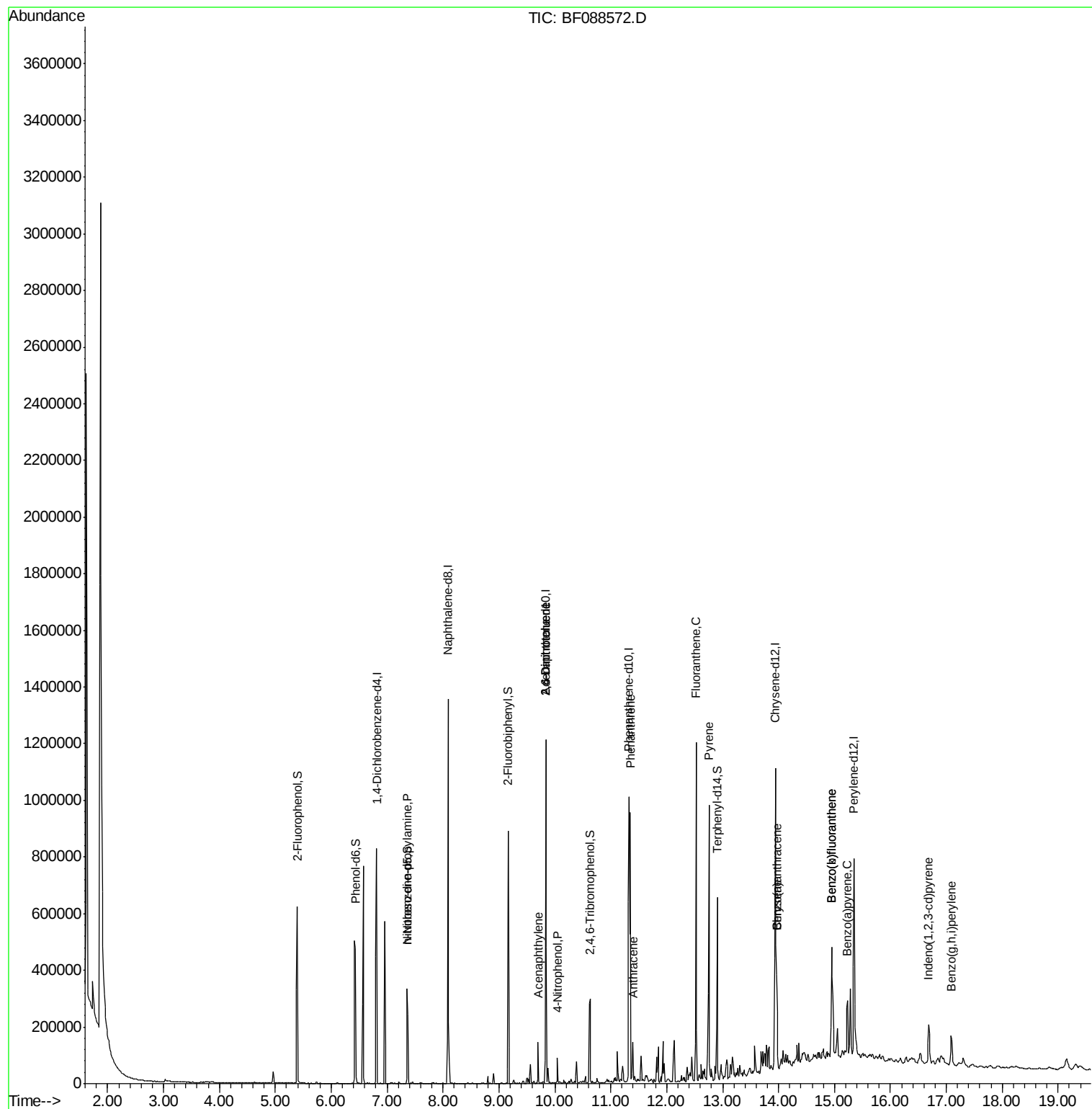
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.36	70	18586	2.18	ng	# 77
48) Acenaphthylene	9.70	152	53290	2.10	ng	99
50) 2,6-Dinitrotoluene	9.84	165	31694	8.18	ng	# 40
55) 4-Nitrophenol	10.04	139	9975	2.66	ng	# 5
56) 2,4-Dinitrotoluene	9.84	165	31696	6.26	ng	# 38
70) Phenanthrene	11.35	178	424648	17.53	ng	98
71) Anthracene	11.39	178	50688	2.10	ng	97
74) Fluoranthene	12.53	202	428532	17.45	ng	98
77) Pyrene	12.75	202	366211	15.50	ng	98
80) Benzo(a)anthracene	13.97	228	133466	7.44	ng	95
82) Chrysene	13.97	228	133466	7.52	ng	96
85) Indeno(1,2,3-cd)pyrene	16.69	276	87116	6.38	ng	# 100
87) Benzo(b)fluoranthene	14.95	252	261743	14.28	ng	# 94
88) Benzo(k)fluoranthene	14.95	252	261743	16.41	ng	99
89) Benzo(a)pyrene	15.23	252	98141	6.33	ng	93
91) Benzo(g,h,i)perylene	17.09	276	77186	5.76	ng	98

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

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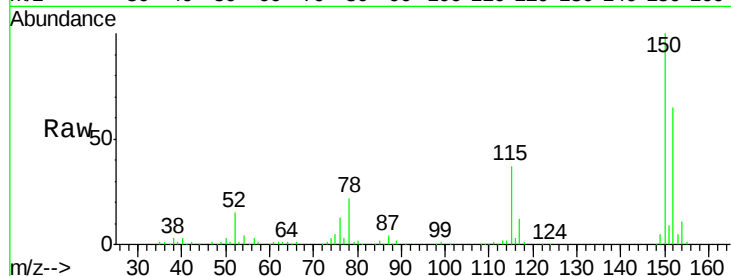


#1

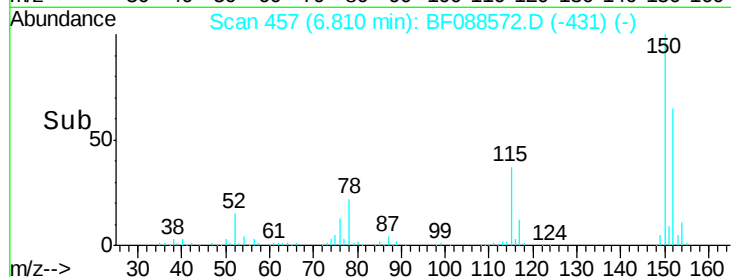
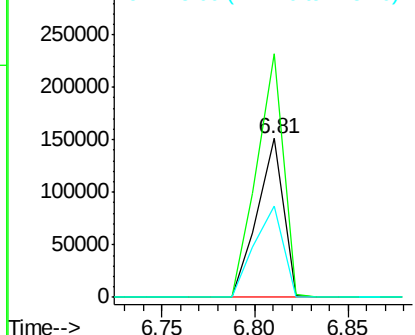
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.81 min Scan# 457
Delta R.T. -0.00 min
Lab File: BF088572.D
Acq: 1 Jul 2016 13:52

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 147209
Ion Ratio Lower Upper
152 100
150 153.3 123.8 185.6
115 57.1 39.6 59.4



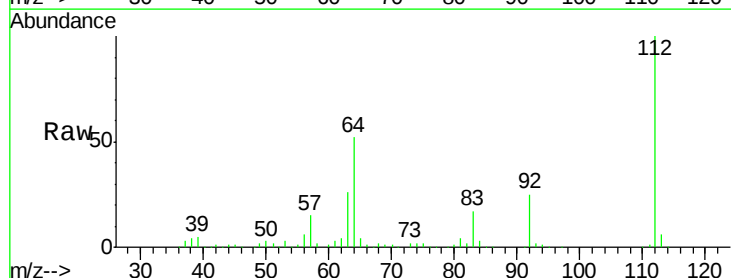
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



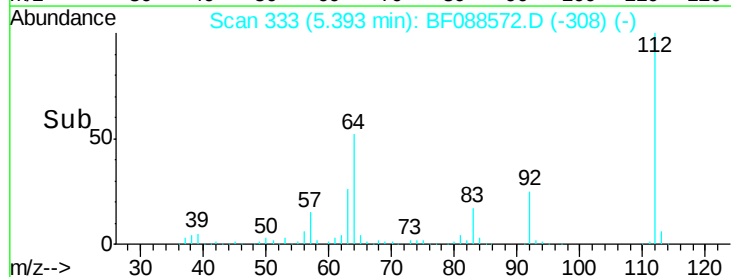
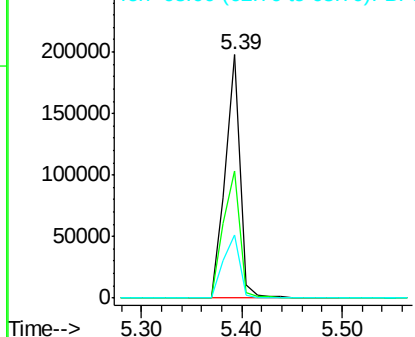
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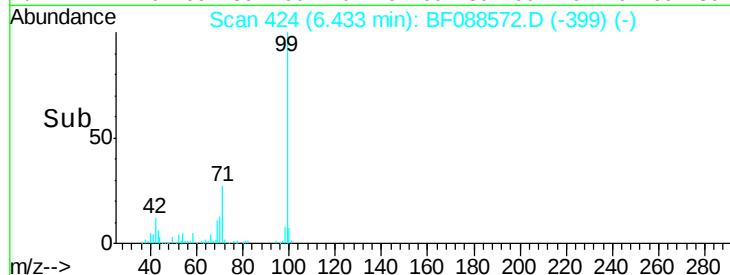
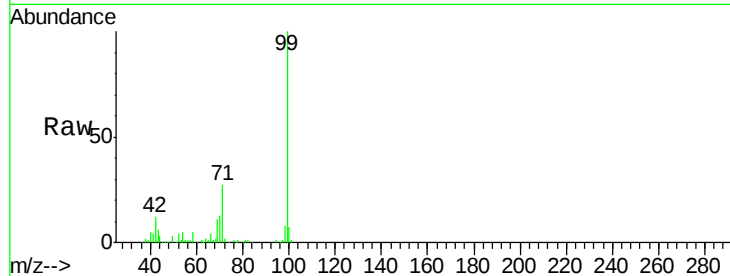
2-Fluorophenol
Concen: 20.68 ng
RT: 5.39 min Scan# 333
Delta R.T. -0.01 min
Lab File: BF088572.D
Acq: 1 Jul 2016 13:52

Tgt Ion:112 Resp: 203174
Ion Ratio Lower Upper
112 100
64 52.0 42.2 63.2
63 25.9 21.8 32.8



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: 20.74 ng

RT: 6.43 min Scan# 424

Delta R.T. -0.01 min

Lab File: BF088572.D

Acq: 1 Jul 2016 13:52

Instrument :

BNA_F

ClientSampleId :

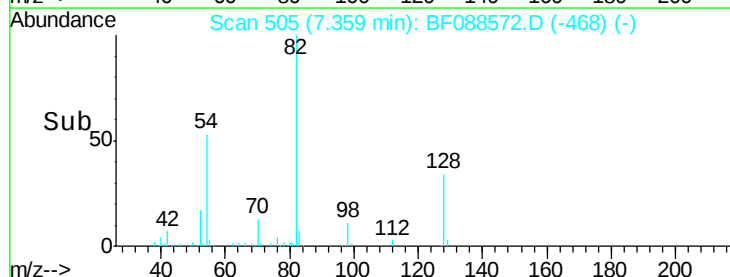
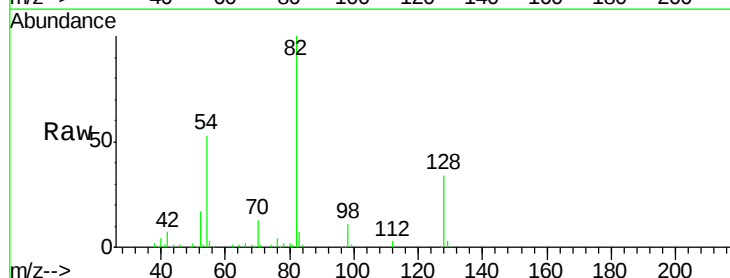
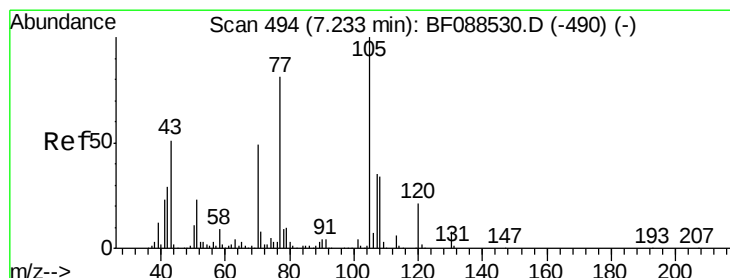
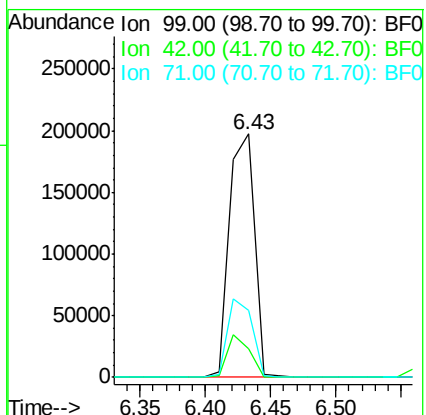
Tot Ion: 99 Resp: 263284

Ion Ratio Lower Upper

99 100

42 11.8 12.2 18.2#

71 27.4 23.4 35.0



#19

n-Nitroso-di-n-propylamine

Concen: 2.18 ng

RT: 7.36 min Scan# 505

Delta R.T. 0.13 min

Lab File: BF088572.D

Acq: 1 Jul 2016 13:52

Tgt Ion: 70 Resp: 18586

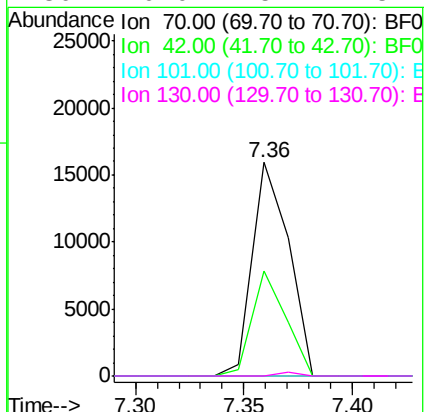
Ion Ratio Lower Upper

70 100

42 49.0 49.6 74.4#

101 0.0 7.1 10.7#

130 0.0 15.4 23.2#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.09 min Scan# 569

Delta R.T. -0.01 min

Lab File: BF088572.D

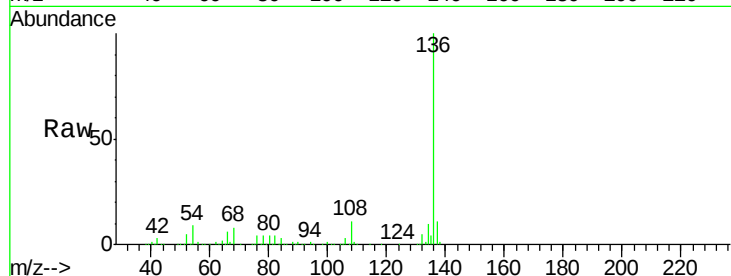
Acq: 1 Jul 2016 13:52

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136	Resp:	561781
Ion Ratio	Lower	Upper
136	100	
137	11.4	9.1 13.7
54	9.3	6.6 10.0
68	7.9	5.1 7.7#

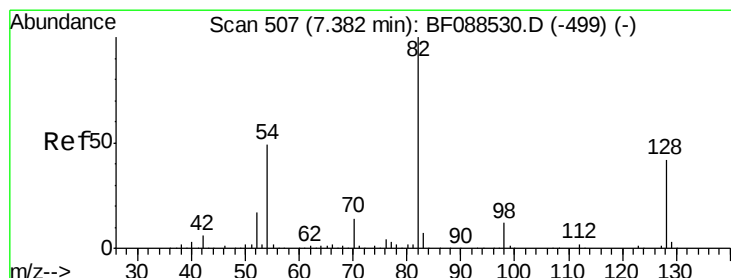
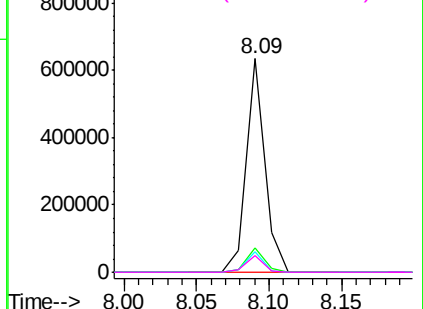
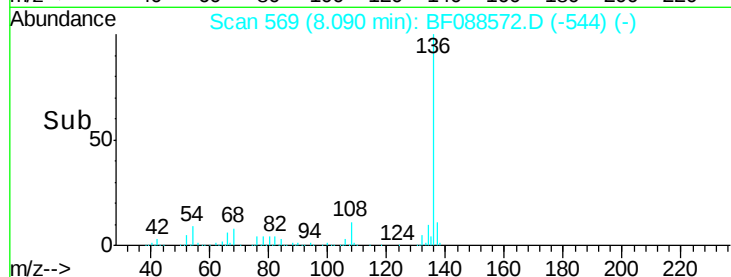


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 13.51 ng

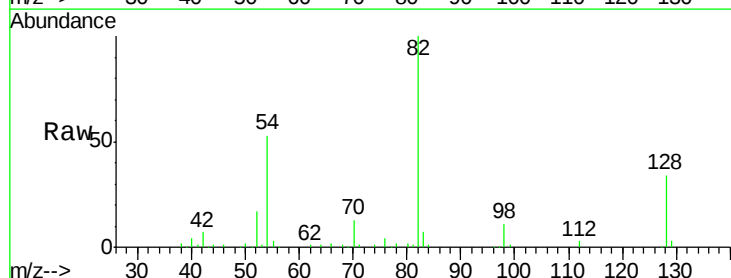
RT: 7.36 min Scan# 505

Delta R.T. -0.02 min

Lab File: BF088572.D

Acq: 1 Jul 2016 13:52

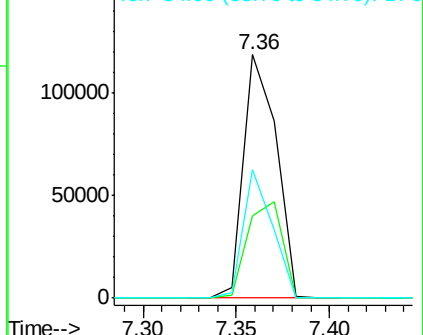
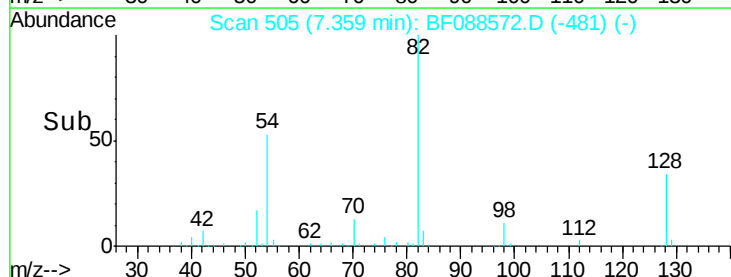
Tgt Ion: 82	Resp:	144795
Ion Ratio	Lower	Upper
82	100	
128	33.9	35.9 53.9#
54	52.7	40.9 61.3

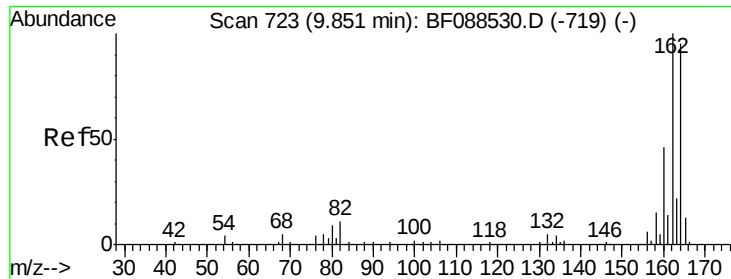


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

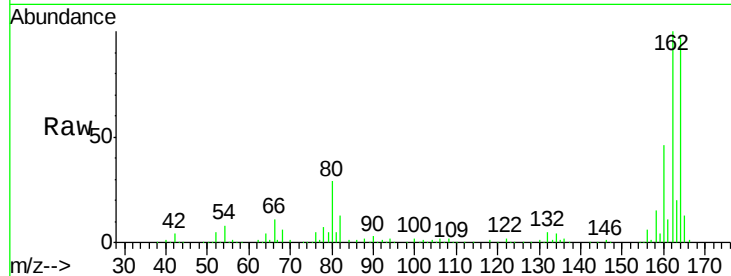




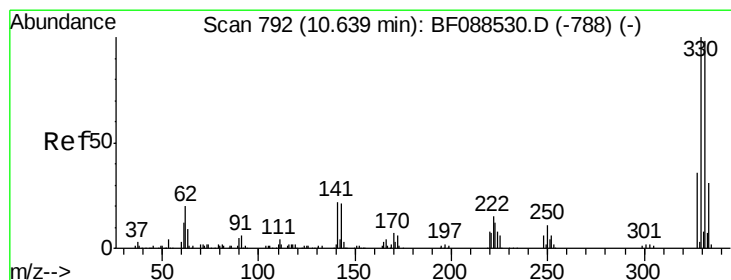
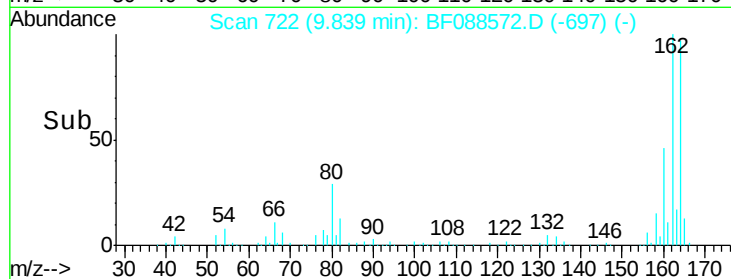
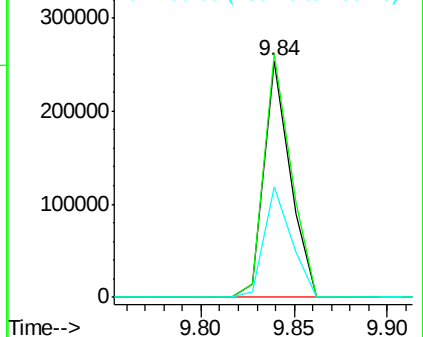
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.84 min Scan# 722
 Delta R.T. -0.01 min
 Lab File: BF088572.D
 Acq: 1 Jul 2016 13:52

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 245405
 Ion Ratio Lower Upper
 164 100
 162 102.9 85.4 128.2
 160 47.0 39.5 59.3

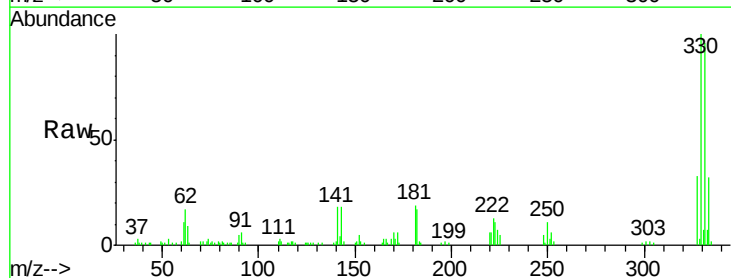


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

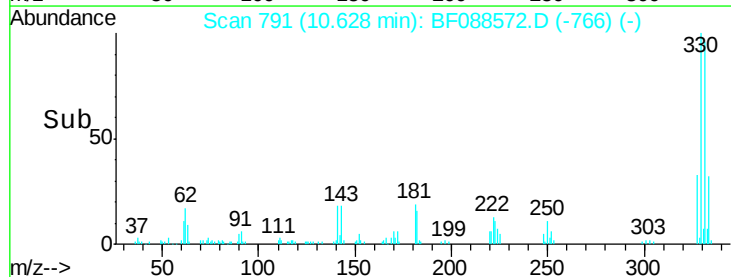
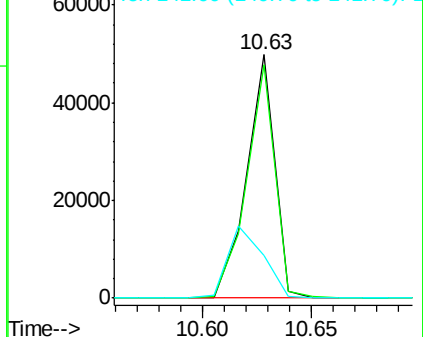


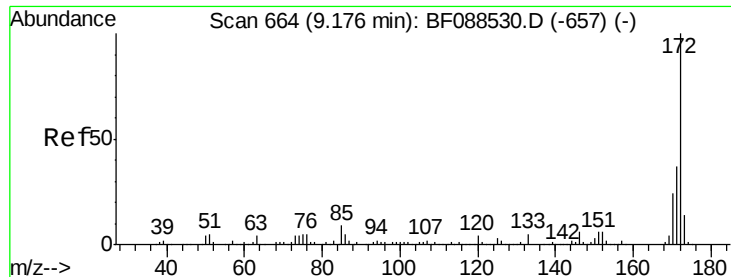
#41
 2,4,6-Tribromophenol
 Concen: 19.51 ng
 RT: 10.63 min Scan# 791
 Delta R.T. -0.01 min
 Lab File: BF088572.D
 Acq: 1 Jul 2016 13:52

Tgt Ion:330 Resp: 44469
 Ion Ratio Lower Upper
 330 100
 332 97.3 0.0 0.0#
 141 37.9 0.0 0.0#



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

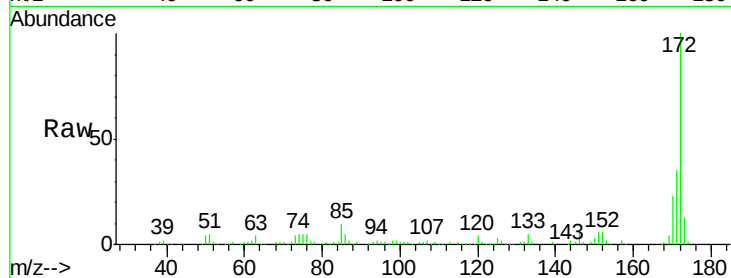




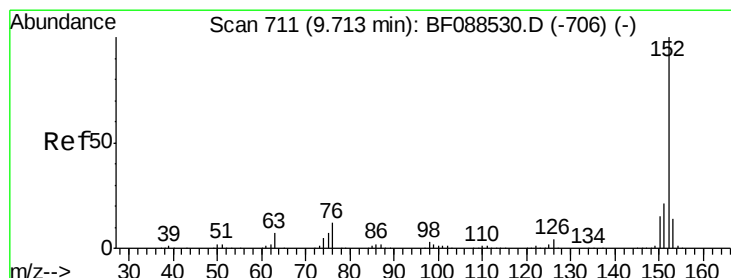
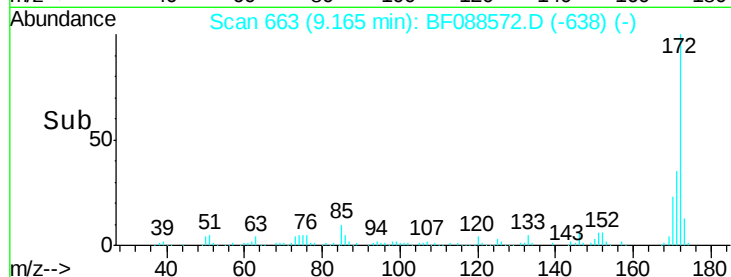
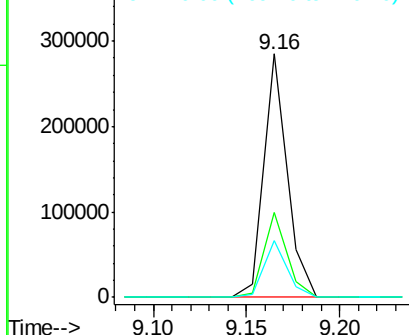
#44
 2-Fluorobiphenyl
 Concen: 15.72 ng
 RT: 9.16 min Scan# 663
 Delta R.T. -0.01 min
 Lab File: BF088572.D
 Acq: 1 Jul 2016 13:52

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 244293
 Ion Ratio Lower Upper
 172 100
 171 34.7 28.6 43.0
 170 23.5 19.2 28.8

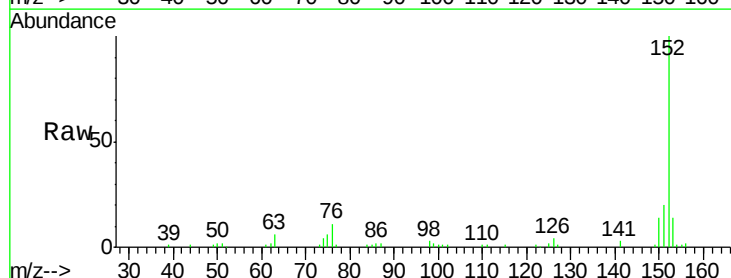


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

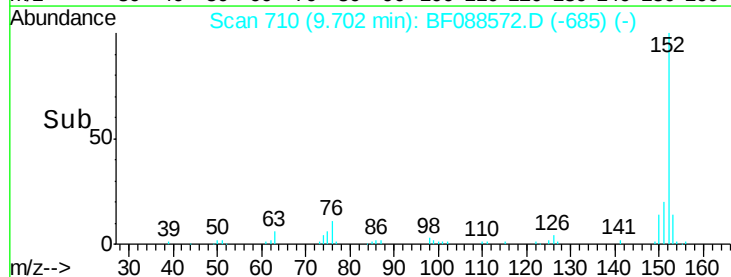
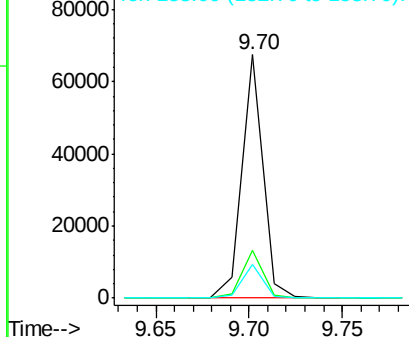


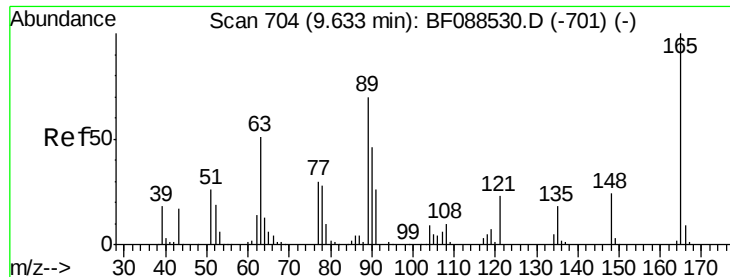
#48
 Acenaphthylene
 Concen: 2.10 ng
 RT: 9.70 min Scan# 710
 Delta R.T. -0.01 min
 Lab File: BF088572.D
 Acq: 1 Jul 2016 13:52

Tgt Ion:152 Resp: 53290
 Ion Ratio Lower Upper
 152 100
 151 19.8 16.2 24.4
 153 13.9 11.0 16.6



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

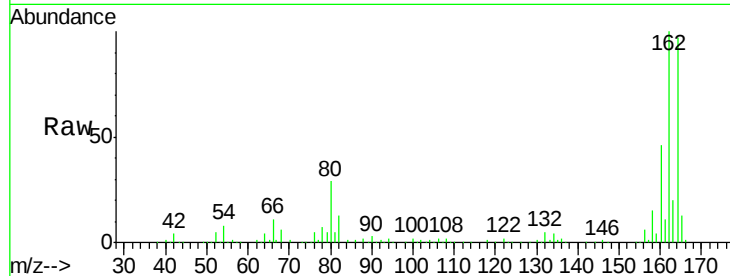




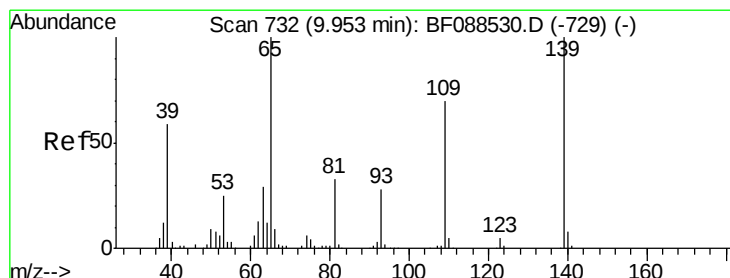
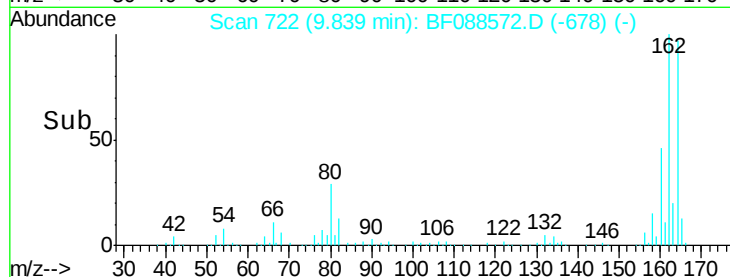
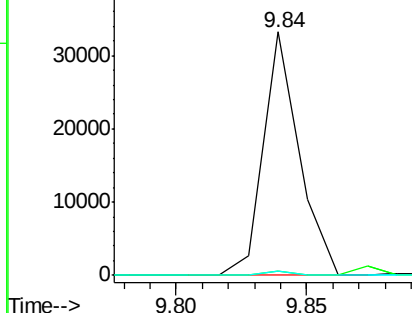
#50
 2,6-Dinitrotoluene
 Concen: 8.18 ng
 RT: 9.84 min Scan# 722
 Delta R.T. 0.21 min
 Lab File: BF088572.D
 Acq: 1 Jul 2016 13:52

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:165 Resp: 31694
 Ion Ratio Lower Upper
 165 100
 63 1.7 28.1 42.1#
 89 1.5 32.2 48.2#

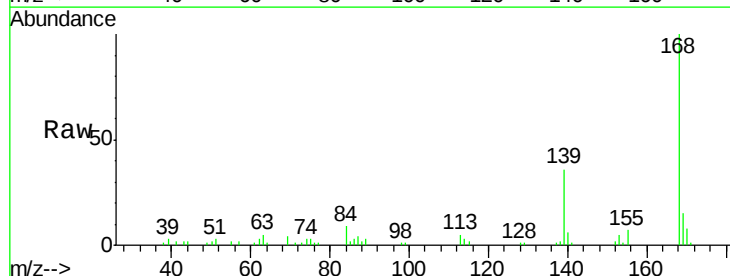


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

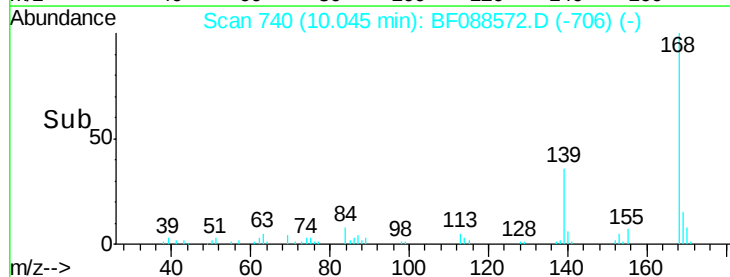
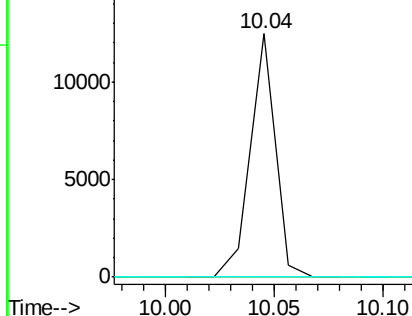


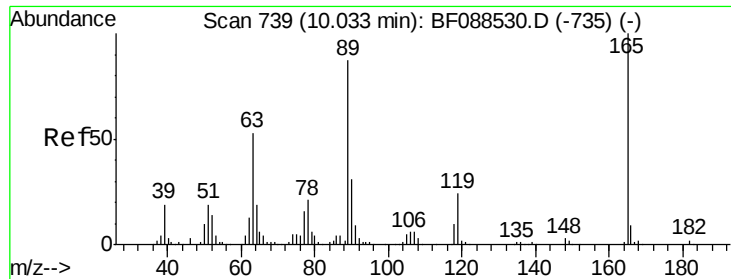
#55
 4-Nitrophenol
 Concen: 2.66 ng
 RT: 10.04 min Scan# 740
 Delta R.T. 0.09 min
 Lab File: BF088572.D
 Acq: 1 Jul 2016 13:52

Tgt Ion:139 Resp: 9975
 Ion Ratio Lower Upper
 139 100
 109 0.0 48.9 88.9#
 65 0.0 84.9 124.9#



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: 6.26 ng

RT: 9.84 min Scan# 722

Delta R.T. -0.19 min

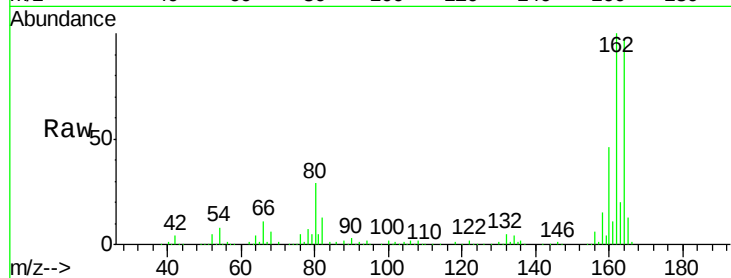
Lab File: BF088572.D

Acq: 1 Jul 2016 13:52

Instrument :

BNA_F

ClientSampleId :



Tot Ion:165 Resp: 31696

Ion Ratio Lower Upper

165 100

63 1.7 22.0 33.0#

89 1.5 41.1 61.7#

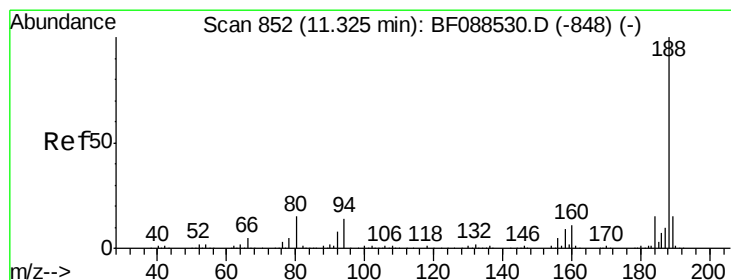
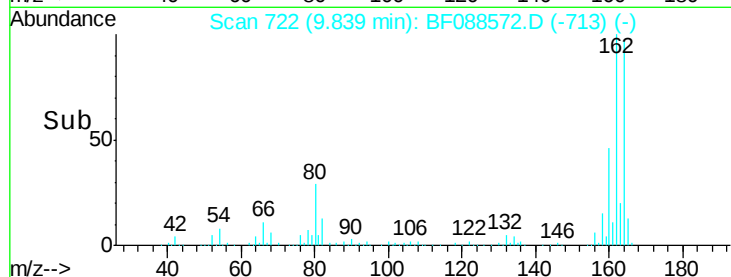
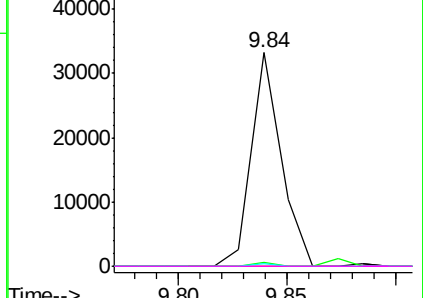
182 0.0 2.0 3.0#

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: 11.32 min Scan# 852

Delta R.T. -0.00 min

Lab File: BF088572.D

Acq: 1 Jul 2016 13:52

Tgt Ion:188 Resp: 443029

Ion Ratio Lower Upper

188 100

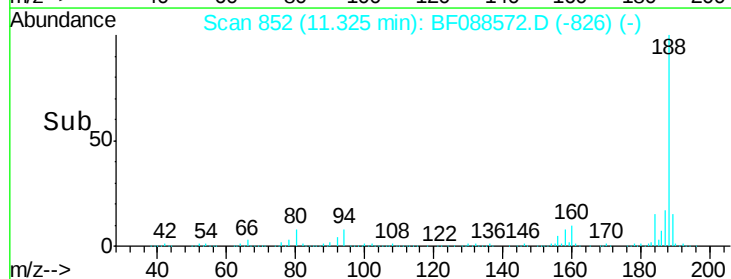
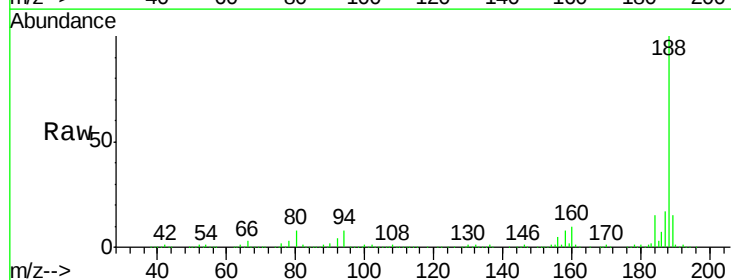
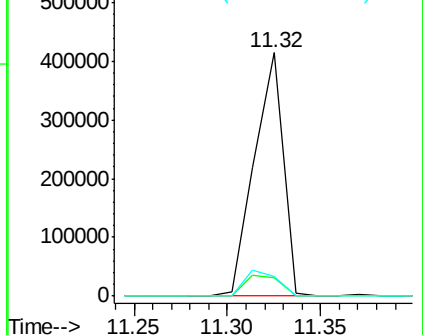
94 7.7 9.0 13.6#

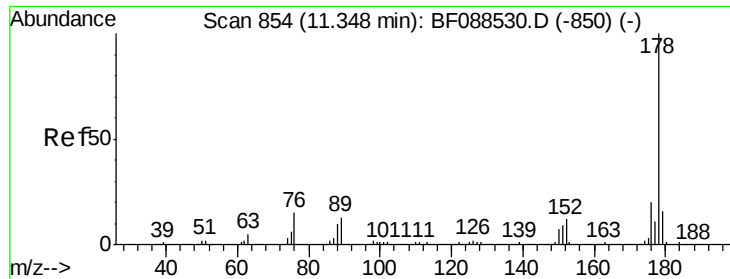
80 7.9 10.0 15.0#

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

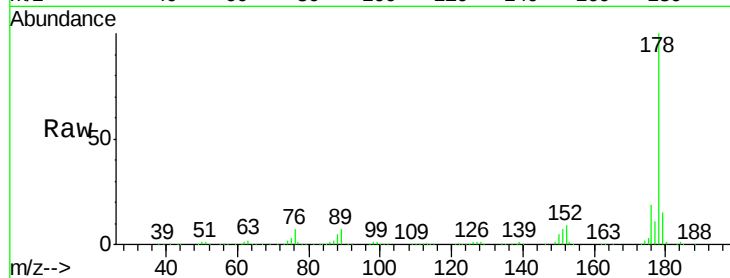




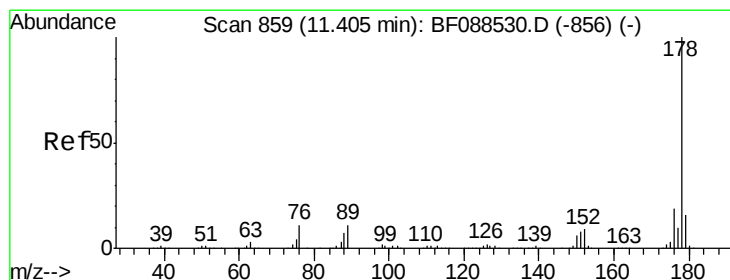
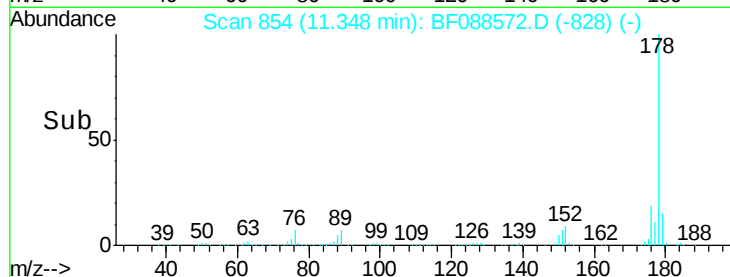
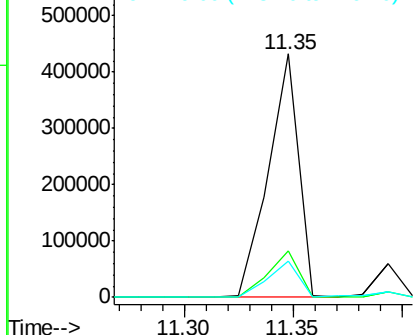
#70
Phenanthrene
Concen: 17.53 ng
RT: 11.35 min Scan# 854
Delta R.T. -0.00 min
Lab File: BF088572.D
Acq: 1 Jul 2016 13:52

Instrument :
BNA_F
ClientSampled :

Tot Ion:178 Resp: 424648
Ion Ratio Lower Upper
178 100
176 18.9 15.8 23.6
179 15.0 13.0 19.4

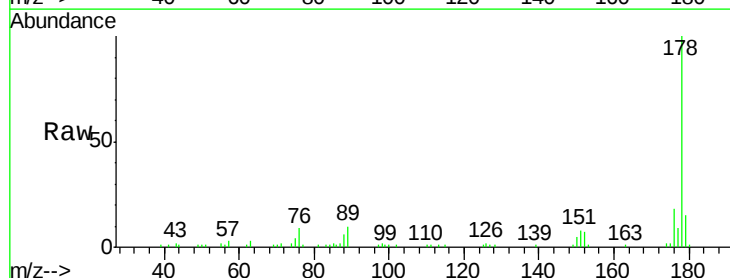


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

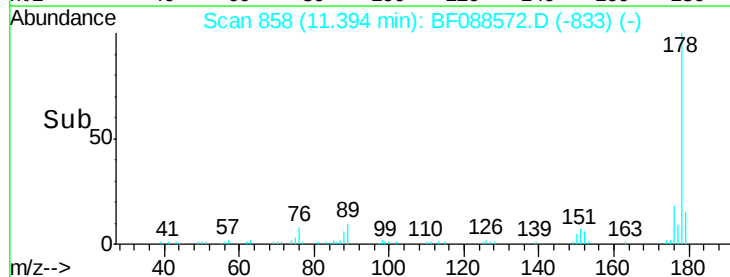
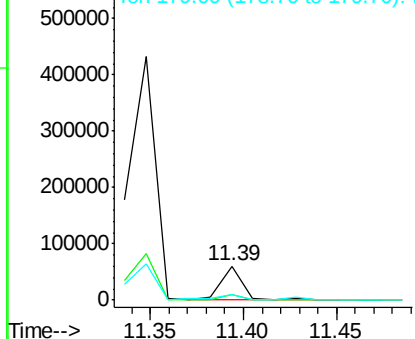


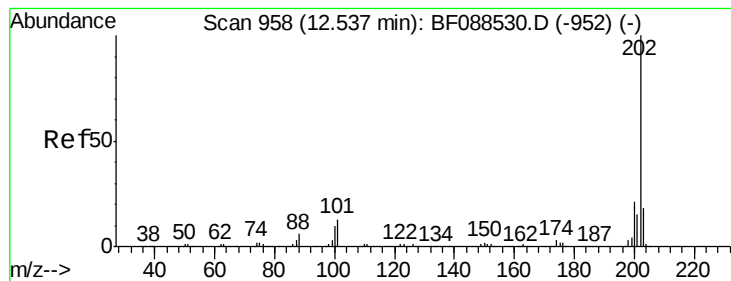
#71
Anthracene
Concen: 2.10 ng
RT: 11.39 min Scan# 858
Delta R.T. -0.01 min
Lab File: BF088572.D
Acq: 1 Jul 2016 13:52

Tgt Ion:178 Resp: 50688
Ion Ratio Lower Upper
178 100
176 17.8 15.6 23.4
179 14.8 12.8 19.2



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





#74

Fluoranthene

Concen: 17.45 ng

RT: 12.53 min Scan# 957

Delta R.T. -0.01 min

Lab File: BF088572.D

Acq: 1 Jul 2016 13:52

Instrument :

BNA_F

ClientSampleId :

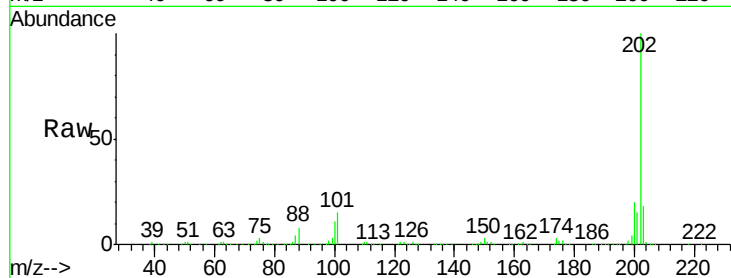
Tot Ion:202 Resp: 428532

Ion Ratio Lower Upper

202 100

101 15.1 0.0 33.1

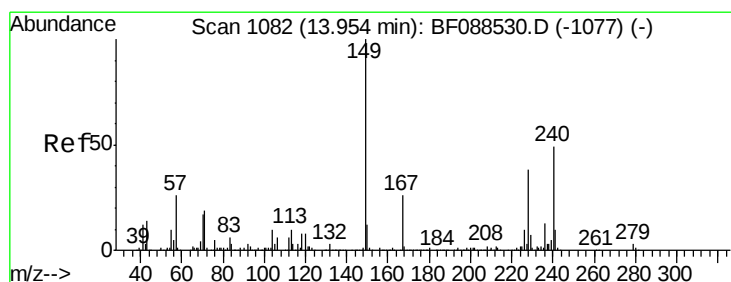
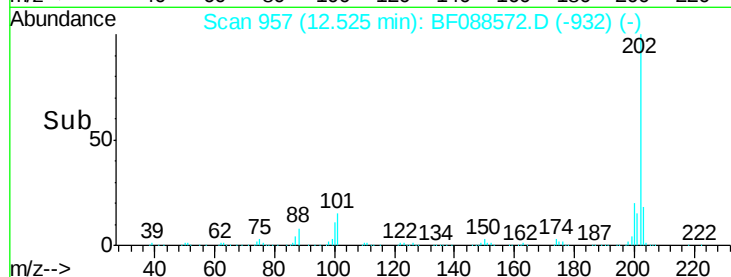
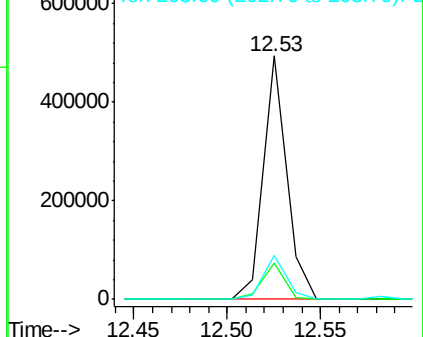
203 18.0 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.94 min Scan# 1081

Delta R.T. -0.01 min

Lab File: BF088572.D

Acq: 1 Jul 2016 13:52

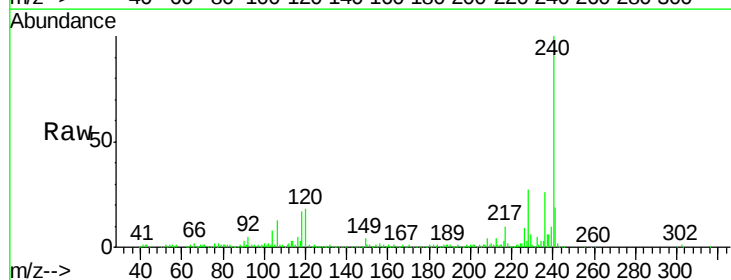
Tgt Ion:240 Resp: 278628

Ion Ratio Lower Upper

240 100

120 18.2 6.8 10.2#

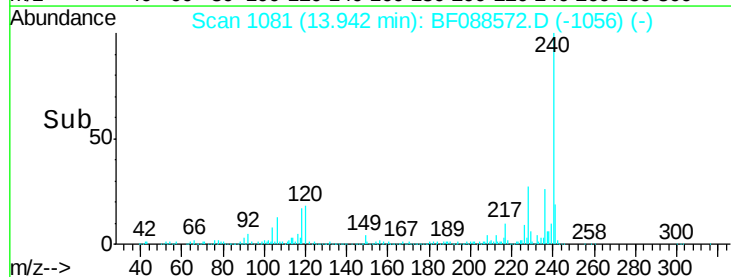
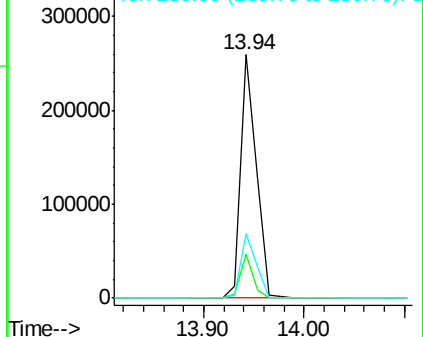
236 26.3 20.2 30.2

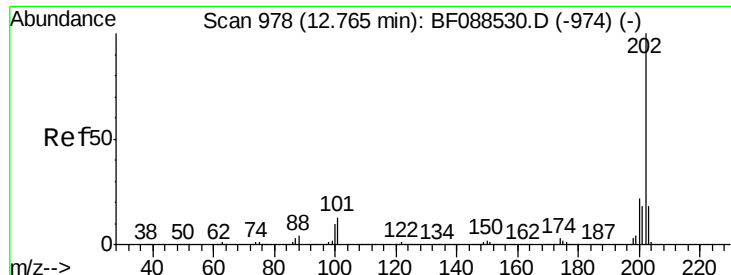


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 15.50 ng

RT: 12.75 min Scan# 977

Delta R.T. -0.01 min

Lab File: BF088572.D

Acq: 1 Jul 2016 13:52

Instrument :

BNA_F

ClientSampled :

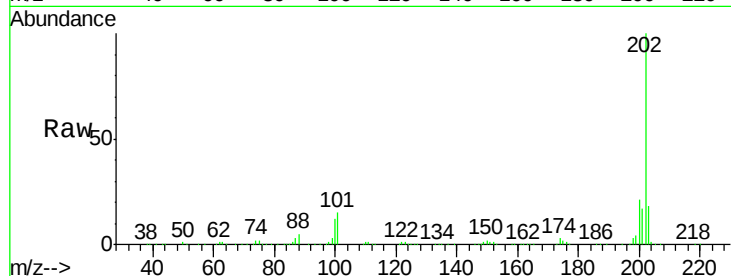
Tot Ion:202 Resp: 366211

Ion Ratio Lower Upper

202 100

200 20.9 17.4 26.2

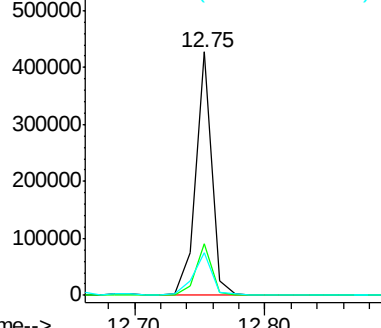
203 17.6 14.5 21.7



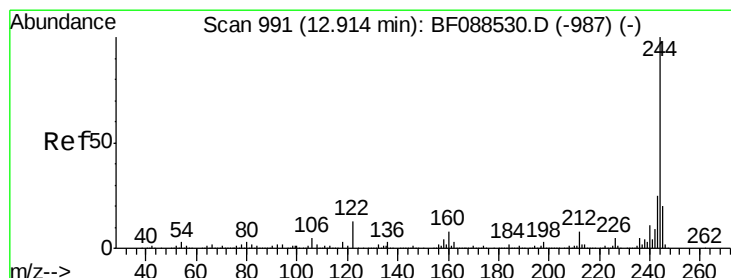
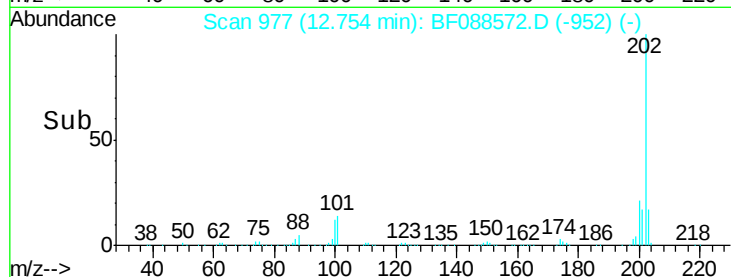
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->



#78

Terphenyl-d14

Concen: 13.99 ng

RT: 12.90 min Scan# 990

Delta R.T. -0.01 min

Lab File: BF088572.D

Acq: 1 Jul 2016 13:52

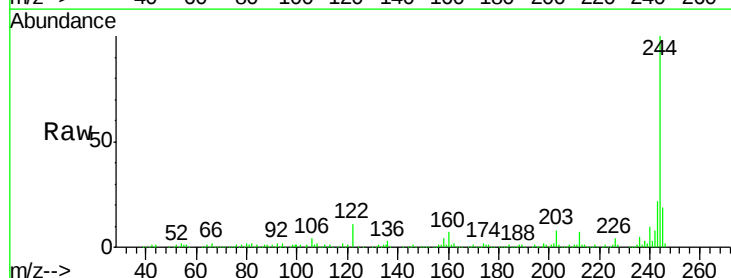
Tgt Ion:244 Resp: 175005

Ion Ratio Lower Upper

244 100

212 6.8 6.0 9.0

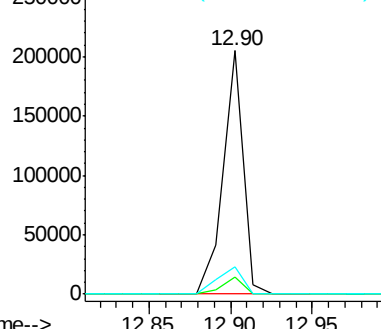
122 11.3 11.2 16.8



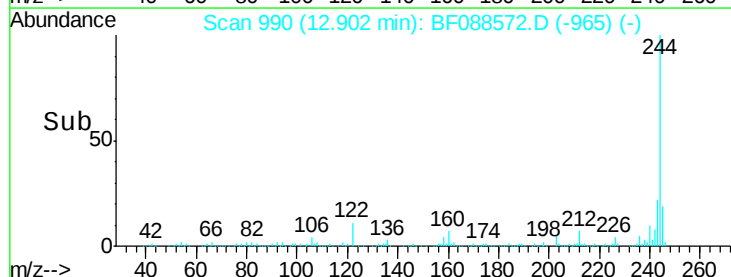
Abundance Ion 244.00 (243.70 to 244.70): E

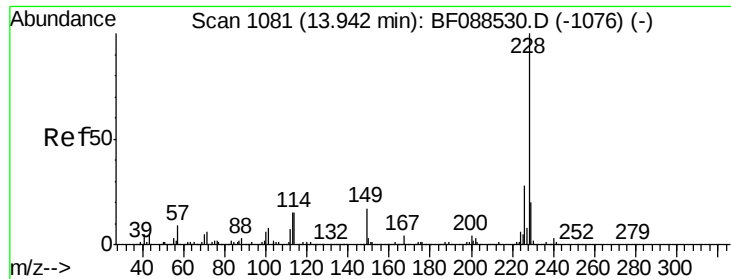
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



Time-->





#80

Benzo(a)anthracene

Concen: 7.44 ng

RT: 13.97 min Scan# 1083

Delta R.T. 0.02 min

Lab File: BF088572.D

Acq: 1 Jul 2016 13:52

Instrument :

BNA_F

ClientSampleId :

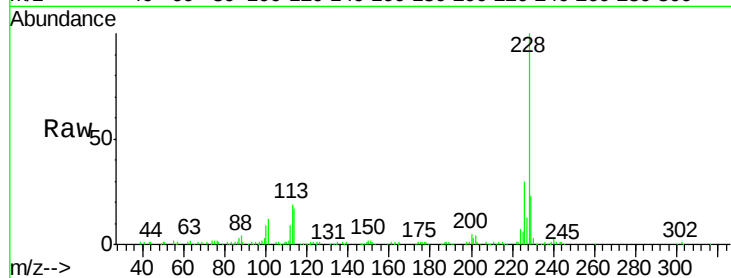
Tot Ion:228 Resp: 133466

Ion Ratio Lower Upper

228 100

226 30.5 22.3 33.5

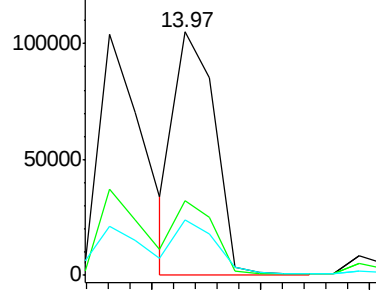
229 22.8 16.0 24.0



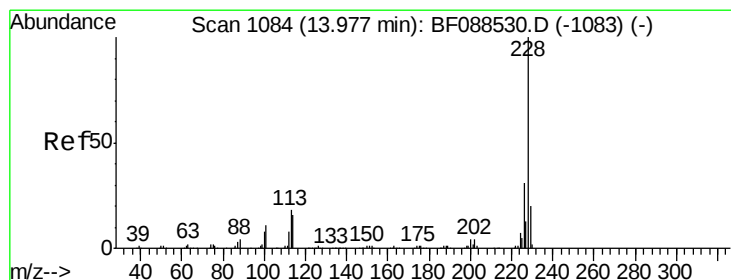
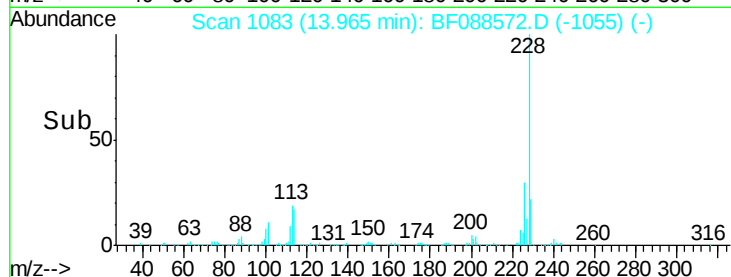
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time-->



#82

Chrysene

Concen: 7.52 ng

RT: 13.97 min Scan# 1083

Delta R.T. -0.01 min

Lab File: BF088572.D

Acq: 1 Jul 2016 13:52

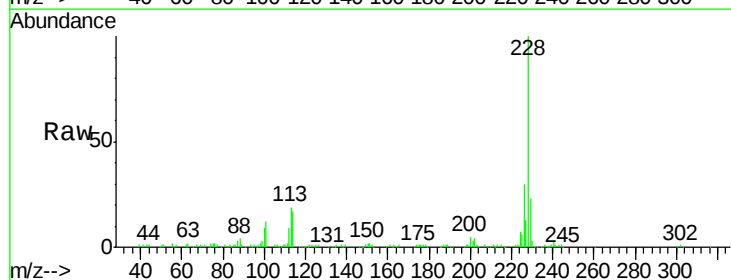
Tgt Ion:228 Resp: 133466

Ion Ratio Lower Upper

228 100

226 30.5 25.4 38.2

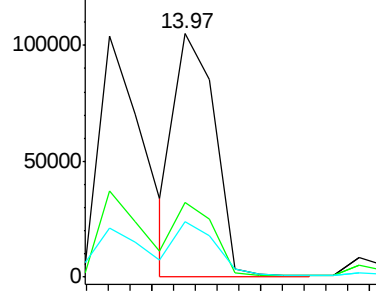
229 22.8 16.3 24.5



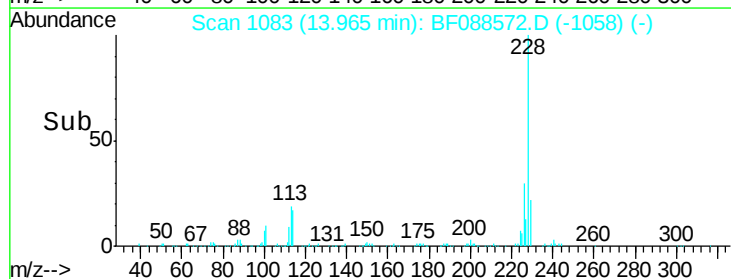
Abundance Ion 228.00 (227.70 to 228.70): E

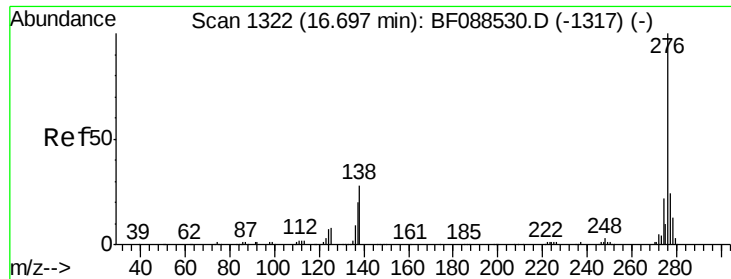
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time-->

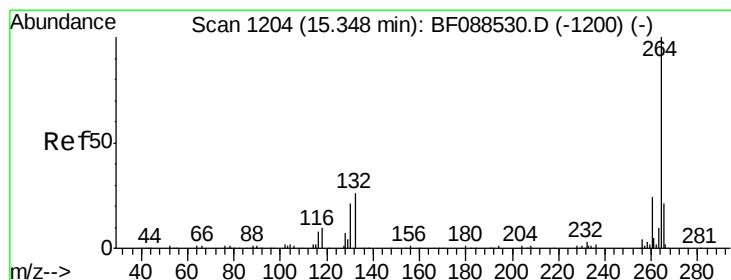
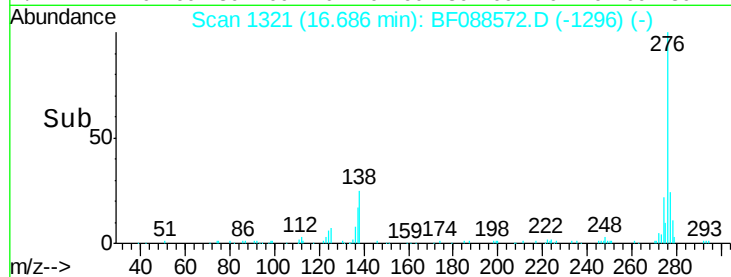
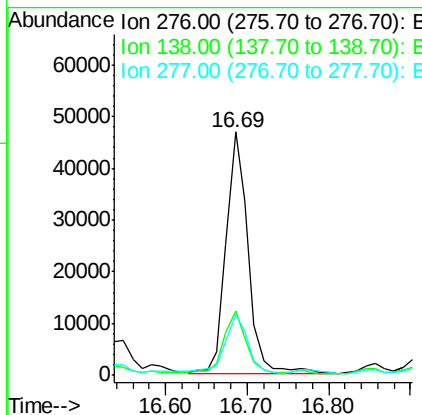
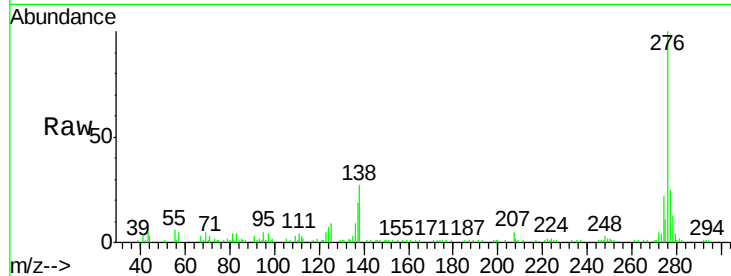




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 6.38 ng
 RT: 16.69 min Scan# 1321
 Delta R.T. -0.01 min
 Lab File: BF088572.D
 Acq: 1 Jul 2016 13:52

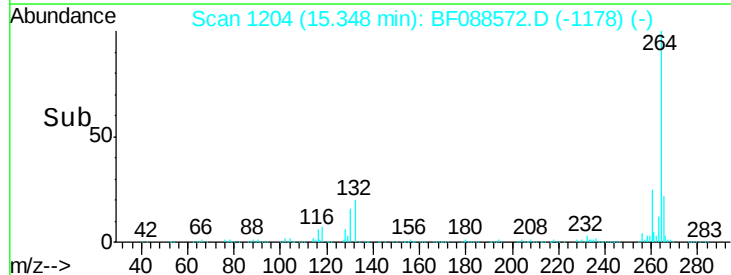
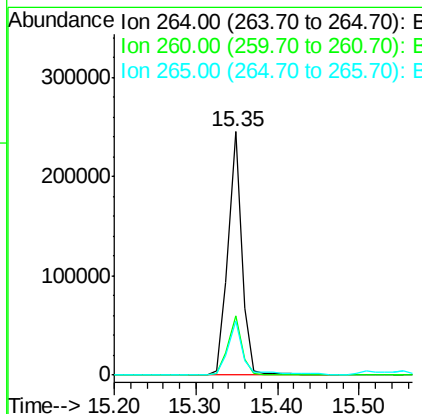
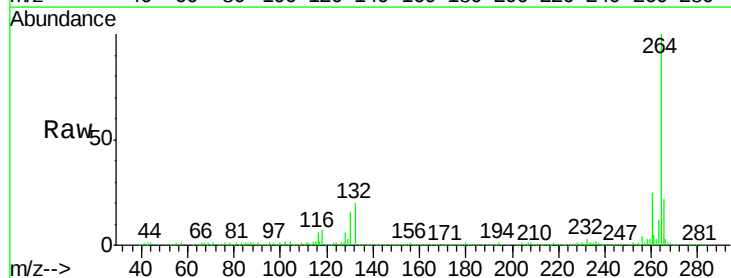
Instrument :
 BNA_F
 ClientSampleId :

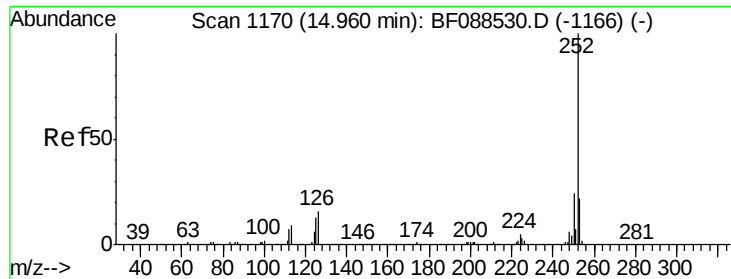
Tot Ion:276 Resp: 87116
 Ion Ratio Lower Upper
 276 100
 138 26.1 0.0 0.0#
 277 25.4 0.0 0.0#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.35 min Scan# 1204
 Delta R.T. -0.00 min
 Lab File: BF088572.D
 Acq: 1 Jul 2016 13:52

Tgt Ion:264 Resp: 292128
 Ion Ratio Lower Upper
 264 100
 260 24.6 19.2 28.8
 265 22.0 16.9 25.3





#87

Benzo(b)fluoranthene

Concen: 14.28 ng

RT: 14.95 min Scan# 1169

Delta R.T. -0.01 min

Lab File: BF088572.D

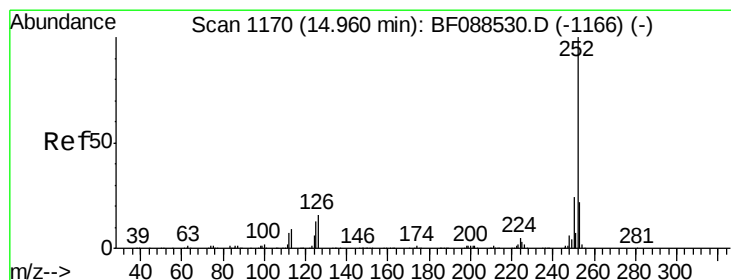
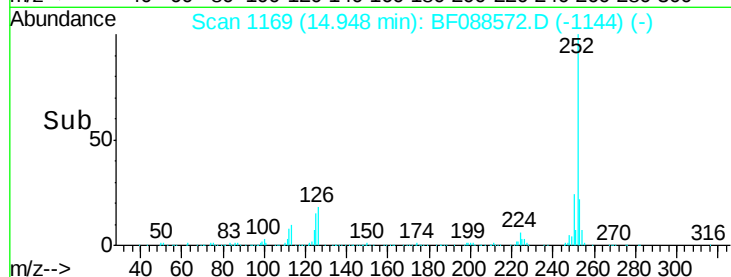
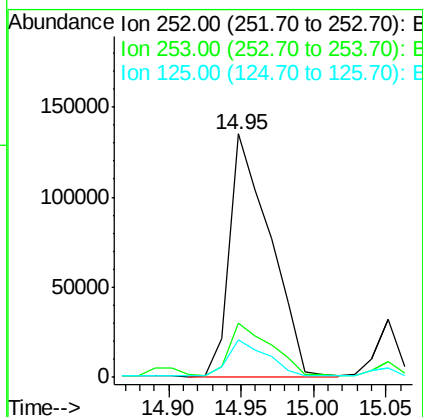
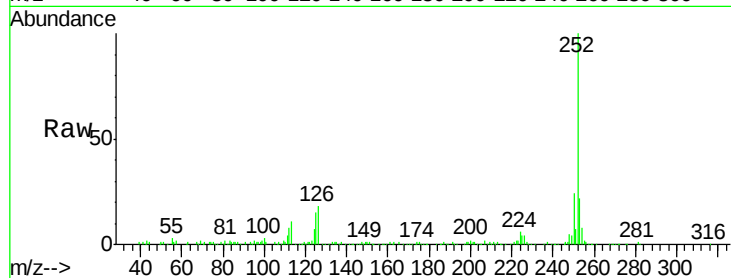
Acq: 1 Jul 2016 13:52

Instrument :

BNA_F

ClientSampleId :

Tot Ion:252	Resp:	261743
Ion Ratio	Lower	Upper
252	100	
253	22.4	17.4 26.2
125	15.2	7.1 10.7#



#88

Benzo(k)fluoranthene

Concen: 16.41 ng

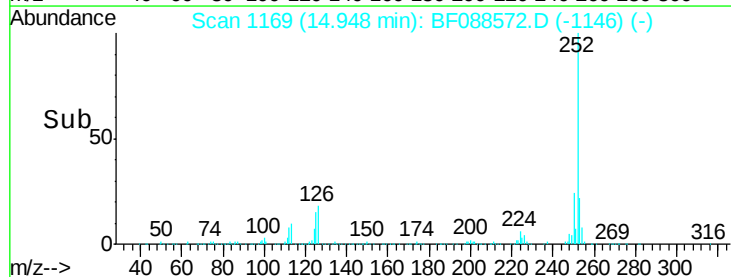
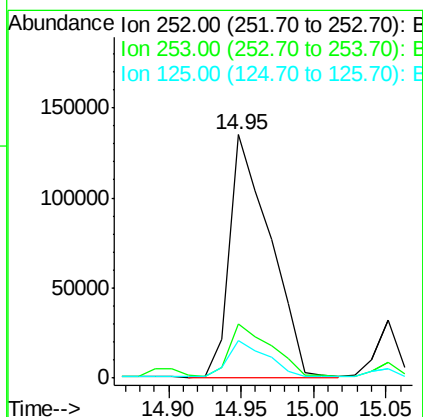
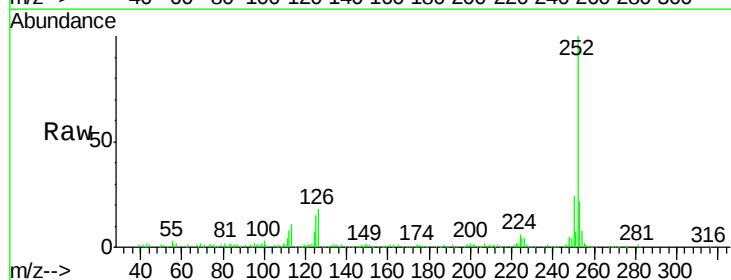
RT: 14.95 min Scan# 1169

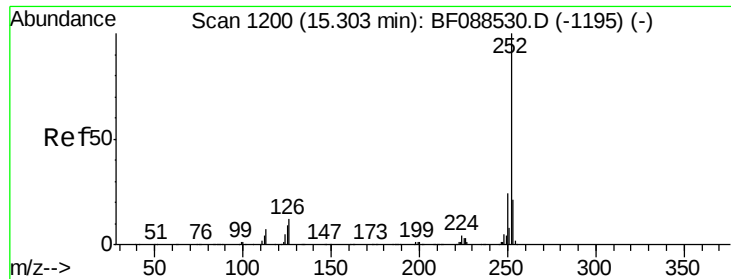
Delta R.T. -0.03 min

Lab File: BF088572.D

Acq: 1 Jul 2016 13:52

Tgt Ion:252	Resp:	261743
Ion Ratio	Lower	Upper
252	100	
253	22.4	18.0 27.0
125	15.2	11.2 16.8

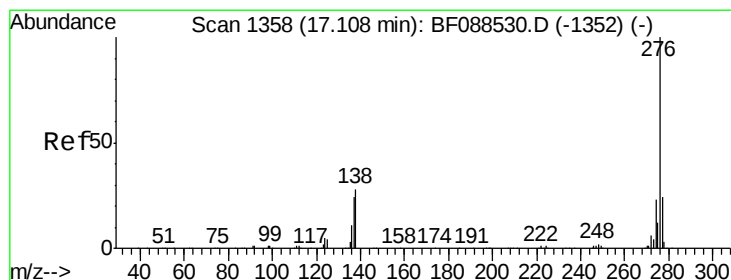
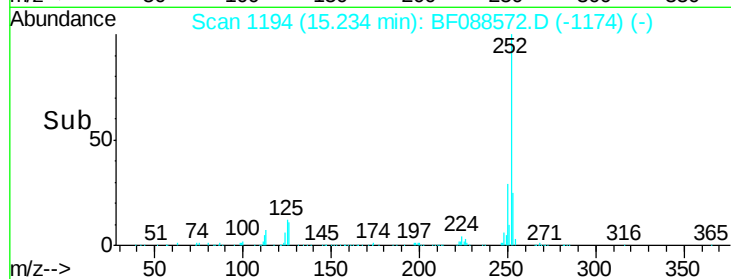
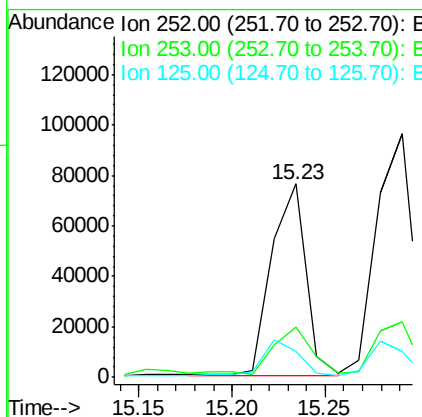
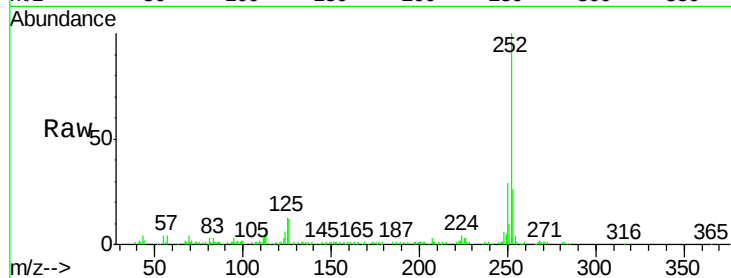




#89
Benzo(a)pyrene
Concen: 6.33 ng
RT: 15.23 min Scan# 1194
Delta R.T. -0.07 min
Lab File: BF088572.D
Acq: 1 Jul 2016 13:52

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 98141
Ion Ratio Lower Upper
252 100
253 26.3 17.9 26.9
125 13.4 12.5 18.7



#91
Benzo(g,h,i)perylene
Concen: 5.76 ng
RT: 17.09 min Scan# 1356
Delta R.T. -0.02 min
Lab File: BF088572.D
Acq: 1 Jul 2016 13:52

Tgt Ion:276 Resp: 77186
Ion Ratio Lower Upper
276 100
277 23.5 18.9 28.3
138 29.0 21.4 32.2

