

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071416\
 Data File : BF089013.D
 Acq On : 15 Jul 2016 4:50
 Operator : UM/SJ
 Sample : H3972-09
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 15 05:25:12 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 11 18:13:32 2016
 Response via : Initial Calibration

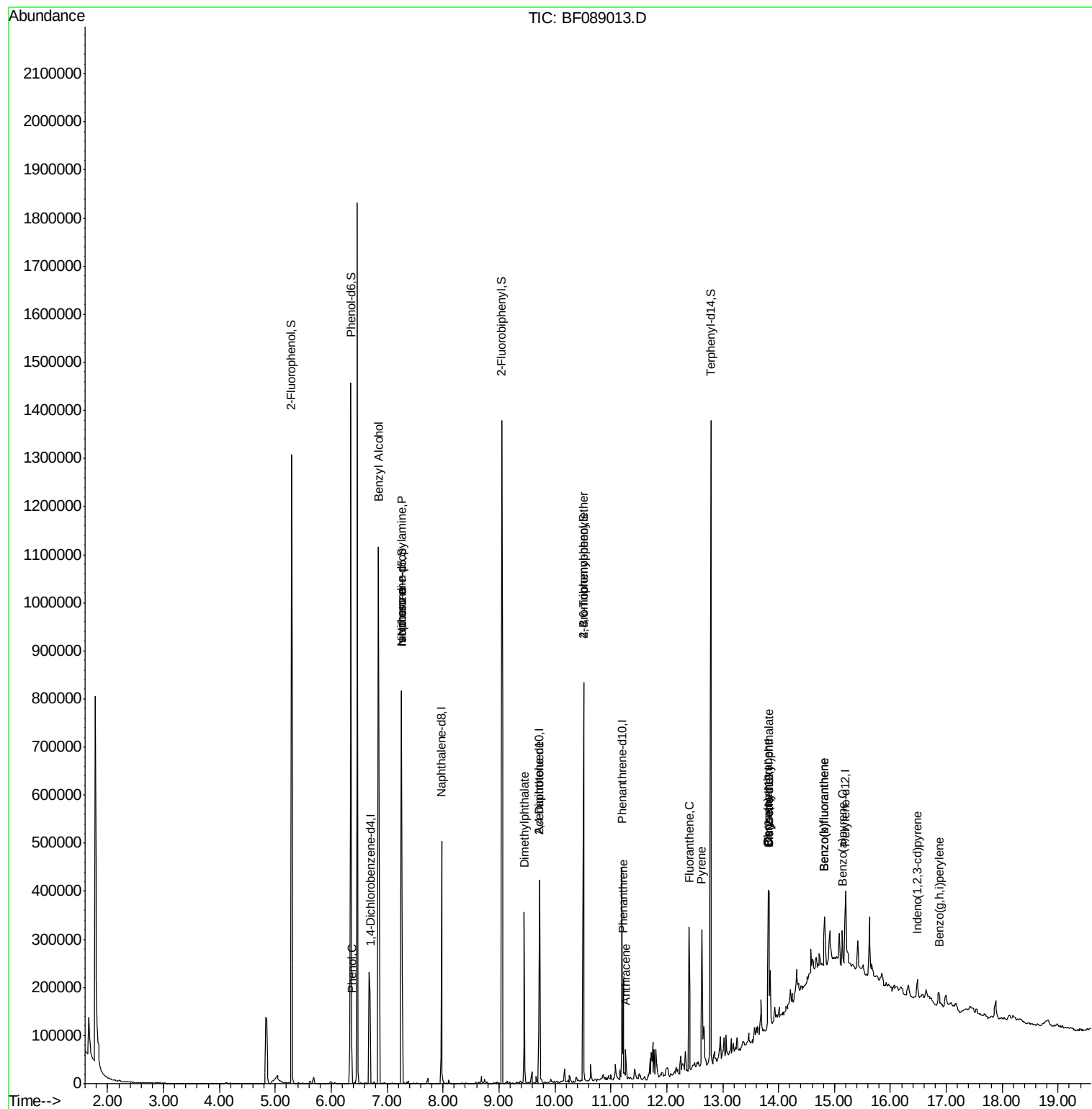
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	47276	20.00	ng	-0.01
21) Naphthalene-d8	7.98	136	191700	20.00	ng	-0.02
38) Acenaphthene-d10	9.72	164	76757	20.00	ng	-0.02
63) Phenanthrene-d10	11.20	188	137016	20.00	ng	-0.02
75) Chrysene-d12	13.83	240	91610	20.00	ng	-0.02
86) Perylene-d12	15.20	264	67419	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.29	112	434943	137.88	ng	0.00
7) Phenol-d6	6.35	99	541662	132.89	ng	0.00
23) Nitrobenzene-d5	7.26	82	298252	81.53	ng	-0.02
41) 2,4,6-Tribromophenol	10.51	330	89735	125.90	ng	-0.02
44) 2-Fluorobiphenyl	9.05	172	529847	109.04	ng	-0.02
78) Terphenyl-d14	12.79	244	439478	106.85	ng	-0.01
Target Compounds						Qvalue
10) Phenol	6.36	94	10711	2.30	ng	85
15) Benzyl Alcohol	6.84	79	6298	2.10	ng	# 50
19) n-Nitroso-di-n-propylamine	7.26	70	40458	14.78	ng	# 76
25) Isophorone	7.26	82	249331	36.80	ng	# 65
49) Dimethylphthalate	9.45	163	132260	24.19	ng	100
56) 2,4-Dinitrotoluene	9.72	165	9950	6.28	ng	# 36
66) 4-Bromophenyl-phenylether	10.51	248	7292	5.28	ng	# 1
70) Phenanthrene	11.22	178	68448	9.14	ng	97
71) Anthracene	11.27	178	23507	3.16	ng	97
74) Fluoranthene	12.40	202	116778	15.38	ng	96
77) Pyrene	12.63	202	112034	14.42	ng	99
80) Benzo(a)anthracene	13.82	228	49469	8.39	ng	# 91
82) Chrysene	13.82	228	49469	8.48	ng	96
83) Bis(2-ethylhexyl)phthalate	13.83	149	8163	2.06	ng	# 89
85) Indeno(1,2,3-cd)pyrene	16.48	276	20034	4.46	ng	# 100
87) Benzo(b)fluoranthene	14.82	252	61587	14.56	ng	# 91
88) Benzo(k)fluoranthene	14.82	252	61587	16.73	ng	# 96
89) Benzo(a)pyrene	15.14	252	32550	9.09	ng	97
91) Benzo(g,h,i)perylene	16.87	276	18676	6.04	ng	95

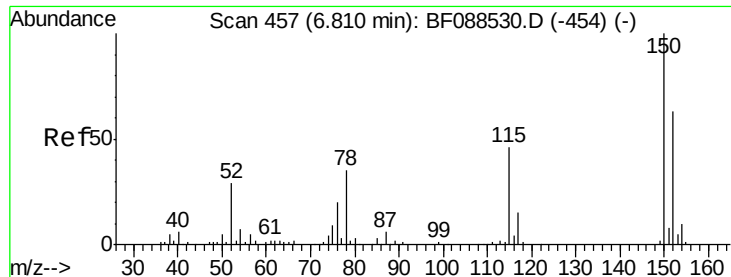
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.70 min Scan# 447

Delta R.T. -0.01 min

Lab File: BF089013.D

Acq: 15 Jul 2016 4:50

Instrument :

BNA_F

ClientSampleId :

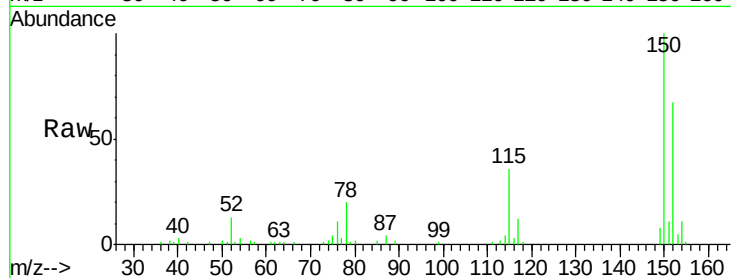
Tgt Ion:152 Resp: 47276

Ion Ratio Lower Upper

152 100

150 150.3 123.8 185.6

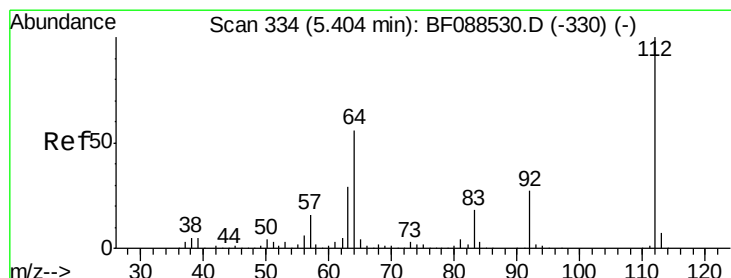
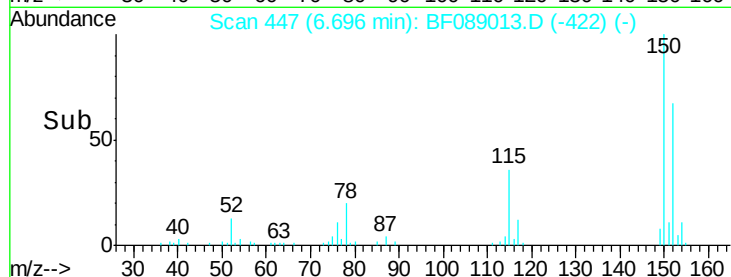
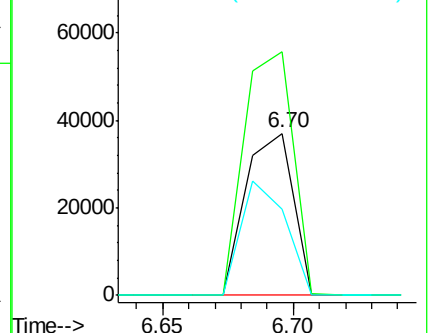
115 53.6 39.6 59.4



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



#5

2-Fluorophenol

Concen: 137.88 ng

RT: 5.29 min Scan# 324

Delta R.T. -0.00 min

Lab File: BF089013.D

Acq: 15 Jul 2016 4:50

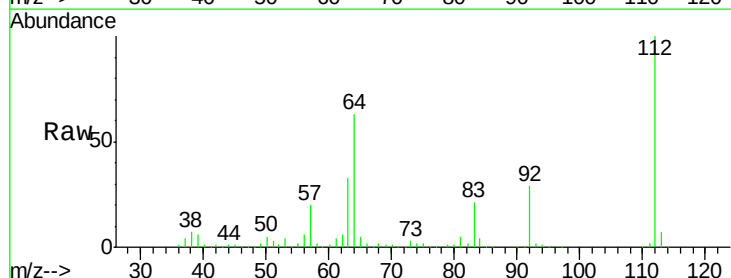
Tgt Ion:112 Resp: 434943

Ion Ratio Lower Upper

112 100

64 62.9 42.2 63.2

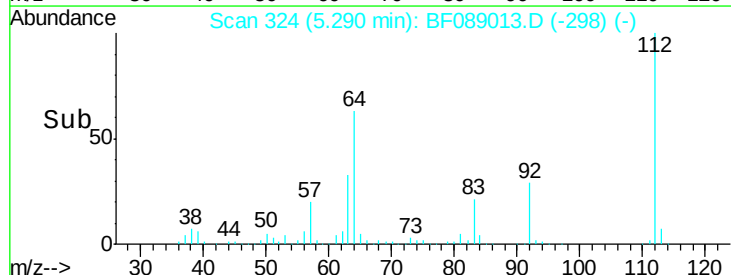
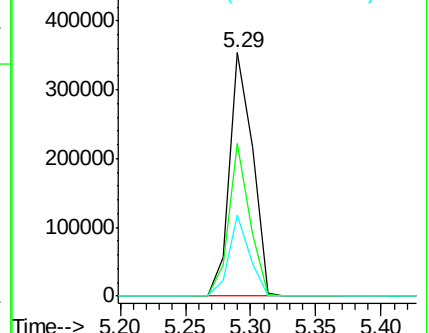
63 33.5 21.8 32.8#

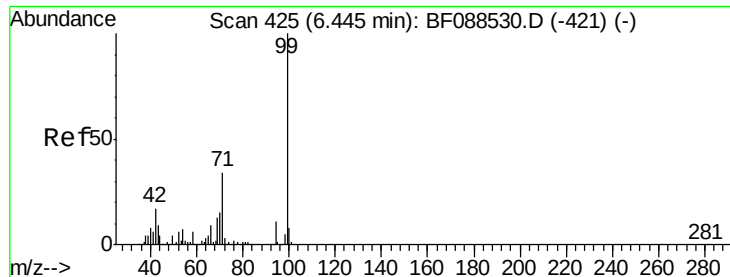


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 132.89 ng

RT: 6.35 min Scan# 417

Delta R.T. -0.00 min

Lab File: BF089013.D

Acq: 15 Jul 2016 4:50

Instrument :

BNA_F

ClientSampleId :

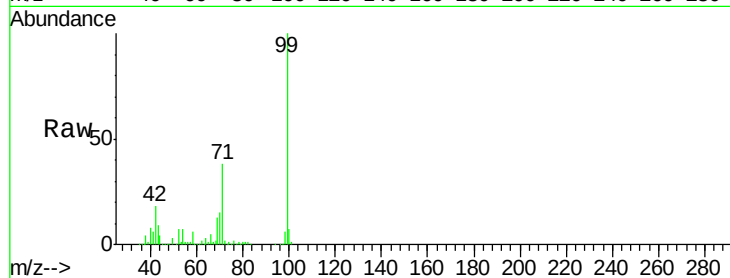
Tgt Ion: 99 Resp: 541662

Ion Ratio Lower Upper

99 100

42 18.3 12.2 18.2#

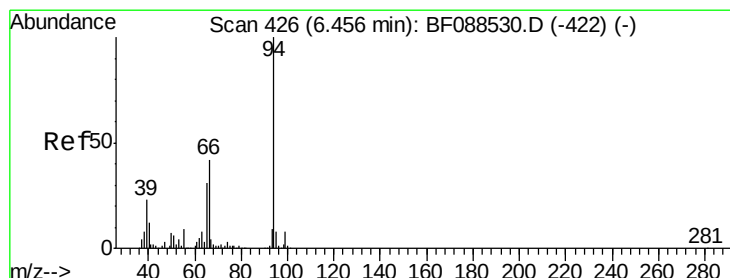
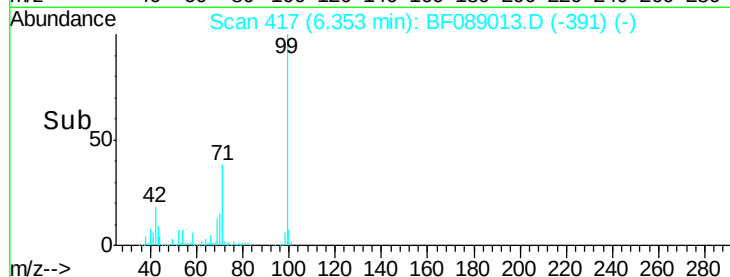
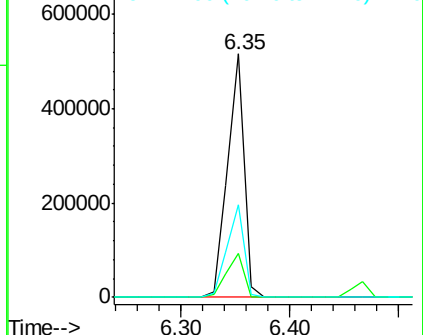
71 38.3 23.4 35.0#



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



#10

Phenol

Concen: 2.30 ng

RT: 6.36 min Scan# 418

Delta R.T. -0.00 min

Lab File: BF089013.D

Acq: 15 Jul 2016 4:50

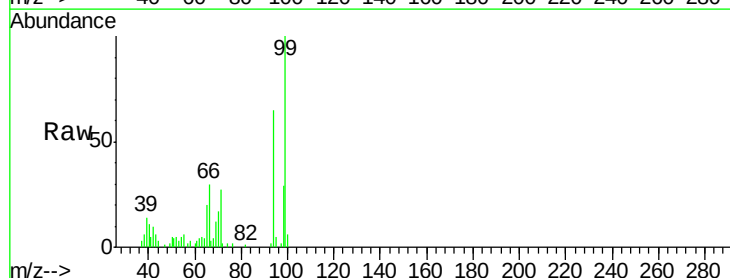
Tgt Ion: 94 Resp: 10711

Ion Ratio Lower Upper

94 100

65 30.7 5.9 45.9

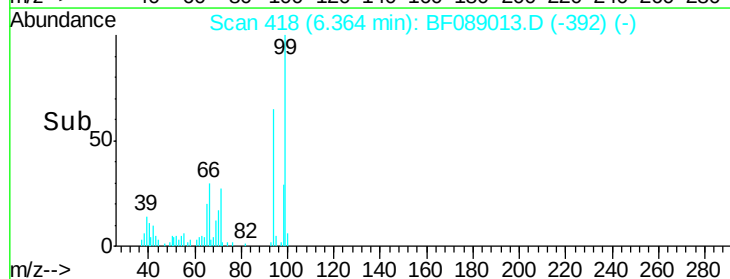
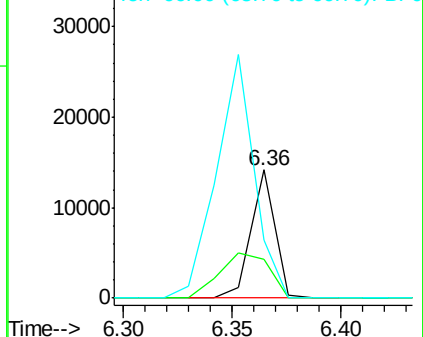
66 45.3 14.0 54.0

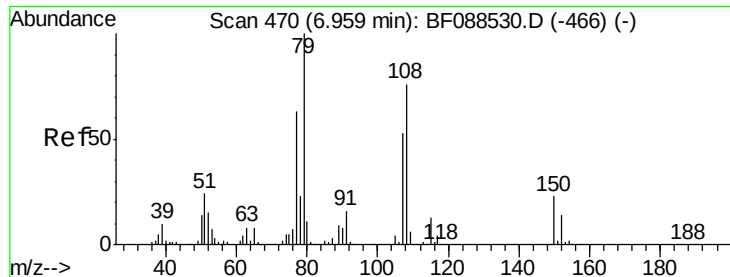


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#15

Benzyl Alcohol

Concen: 2.10 ng

RT: 6.84 min Scan# 460

Delta R.T. -0.01 min

Lab File: BF089013.D

Acq: 15 Jul 2016 4:50

Instrument :

BNA_F

ClientSampled :

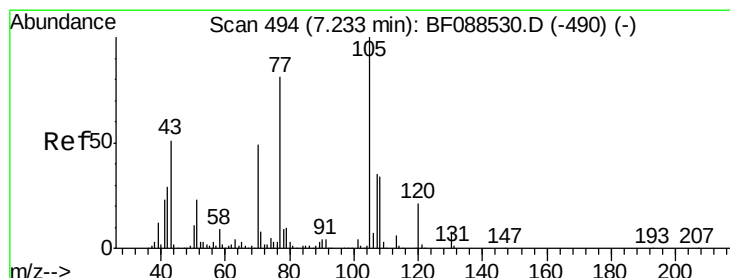
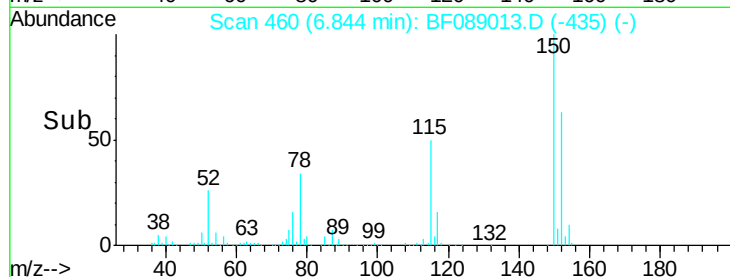
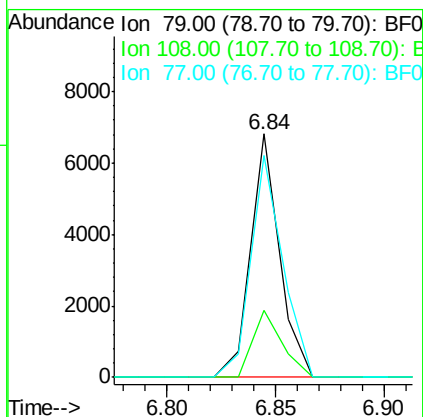
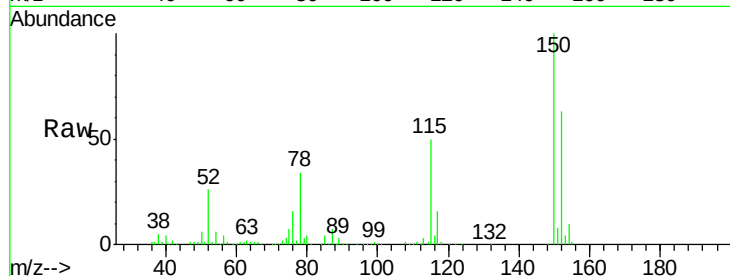
Tgt Ion: 79 Resp: 6298

Ion Ratio Lower Upper

79 100

108 27.4 65.0 97.6#

77 91.2 50.3 75.5#



#19

n-Nitroso-di-n-propylamine

Concen: 14.78 ng

RT: 7.26 min Scan# 496

Delta R.T. 0.11 min

Lab File: BF089013.D

Acq: 15 Jul 2016 4:50

Tgt Ion: 70 Resp: 40458

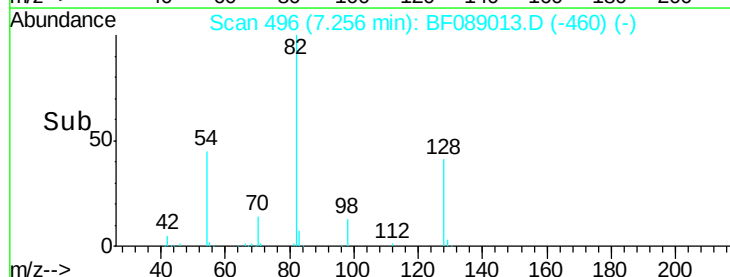
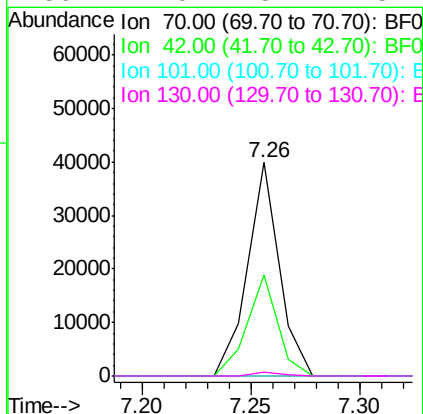
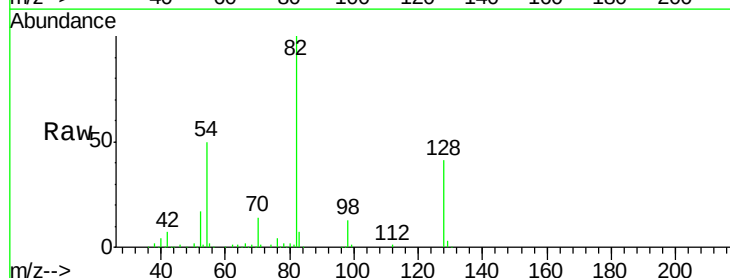
Ion Ratio Lower Upper

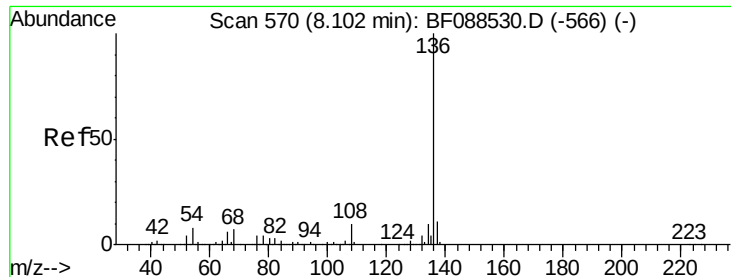
70 100

42 47.2 49.6 74.4#

101 0.0 7.1 10.7#

130 2.0 15.4 23.2#

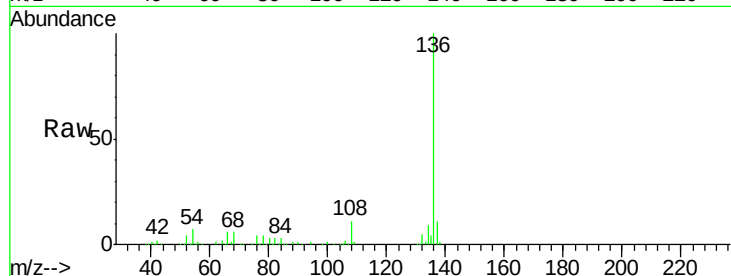




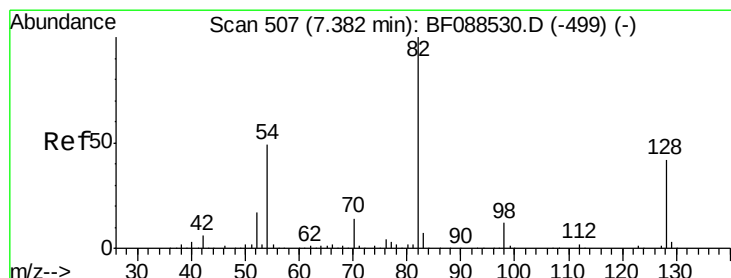
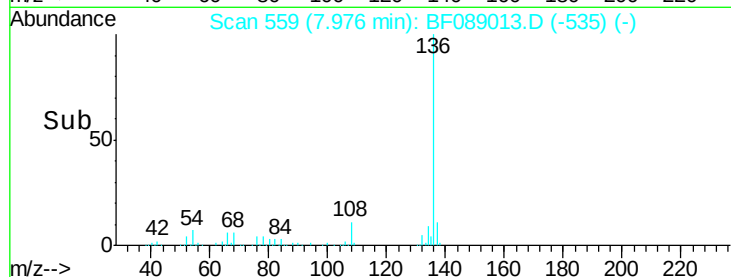
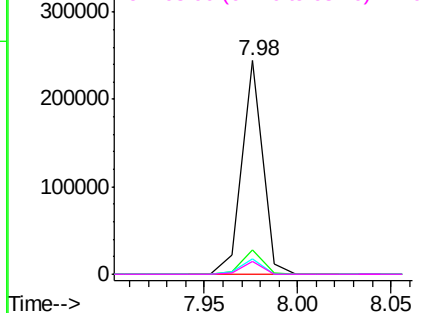
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.98 min Scan# 559
Delta R.T. -0.02 min
Lab File: BF089013.D
Acq: 15 Jul 2016 4:50

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:	136	Resp:	191700
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.1	13.7
54	7.4	6.6	10.0
68	5.8	5.1	7.7

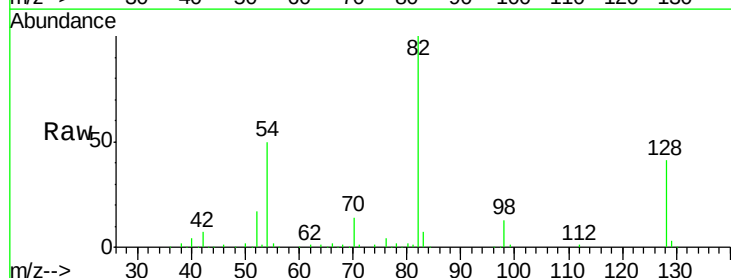


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

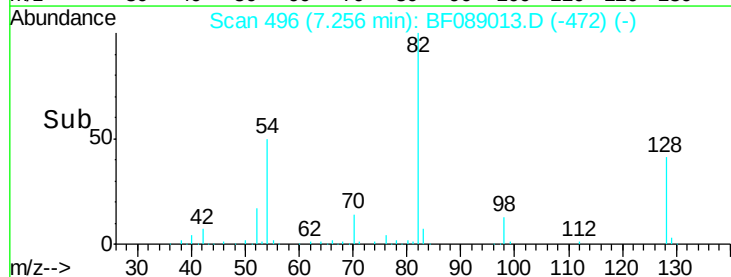
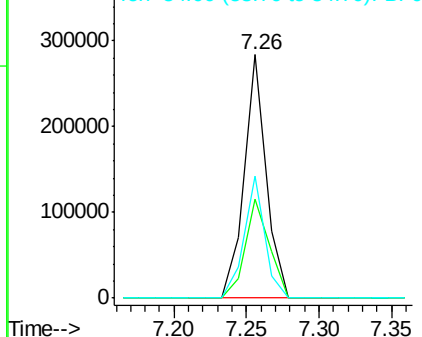


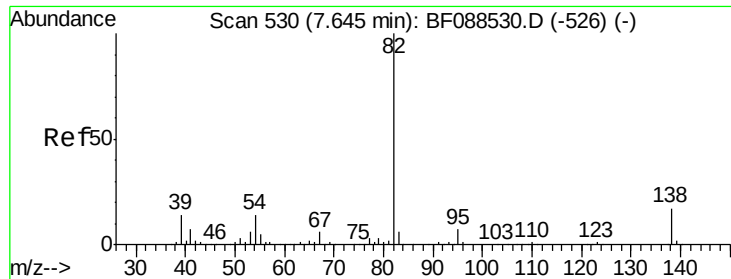
#23
Nitrobenzene-d5
Concen: 81.53 ng
RT: 7.26 min Scan# 496
Delta R.T. -0.02 min
Lab File: BF089013.D
Acq: 15 Jul 2016 4:50

Tgt Ion:	82	Resp:	298252
Ion	Ratio	Lower	Upper
82	100		
128	40.6	35.9	53.9
54	50.2	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





#25

Isophorone

Concen: 36.80 ng

RT: 7.26 min Scan# 496

Delta R.T. -0.29 min

Lab File: BF089013.D

Acq: 15 Jul 2016 4:50

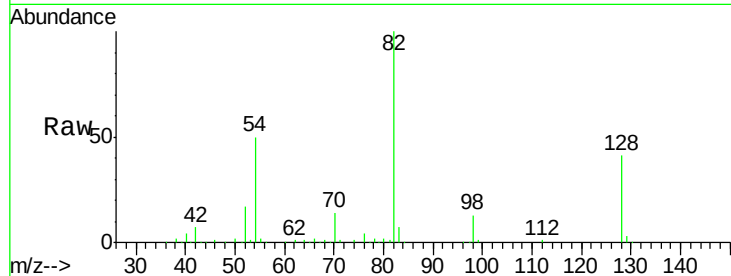
Instrument :

BNA_F

ClientSampleId :

Tgt Ion: 82 Resp: 249331

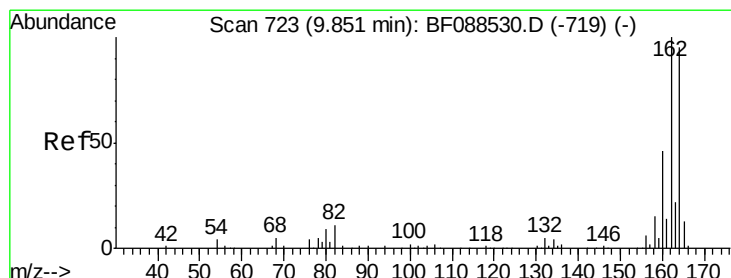
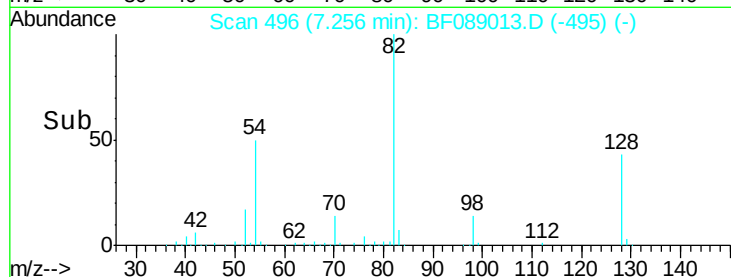
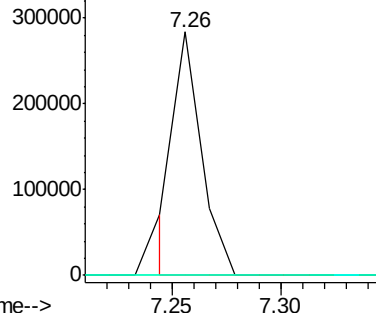
Ion	Ratio	Lower	Upper
82	100		
95	0.0	5.4	8.2#
138	0.0	14.6	21.8#



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): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.72 min Scan# 712

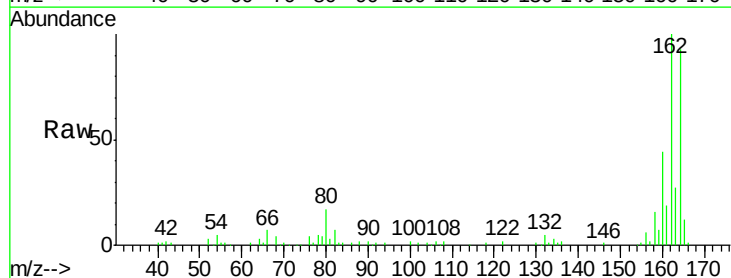
Delta R.T. -0.02 min

Lab File: BF089013.D

Acq: 15 Jul 2016 4:50

Tgt Ion: 164 Resp: 76757

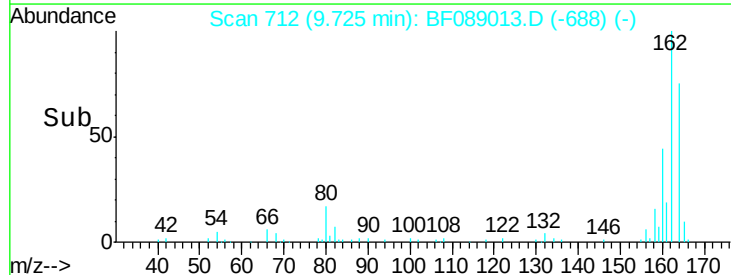
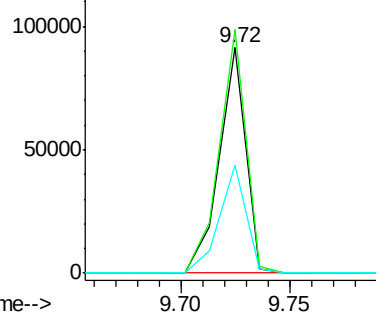
Ion	Ratio	Lower	Upper
164	100		
162	108.0	85.4	128.2
160	47.7	39.5	59.3

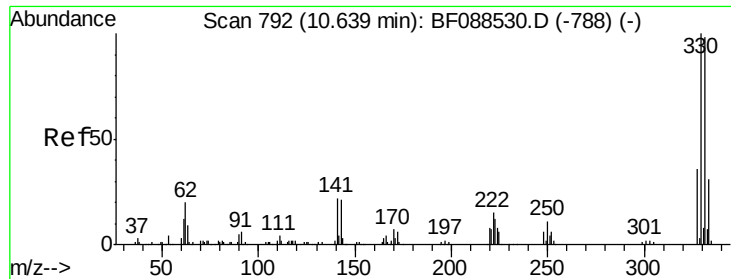


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

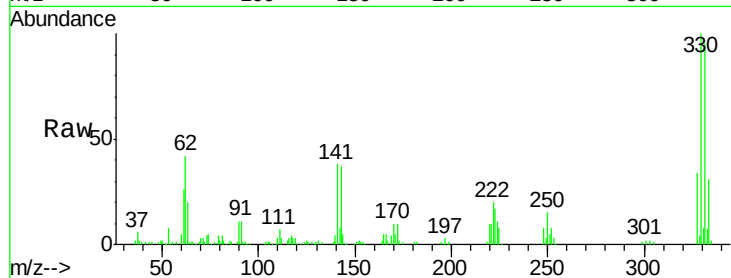




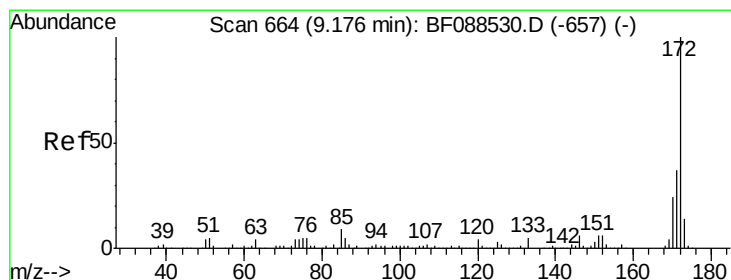
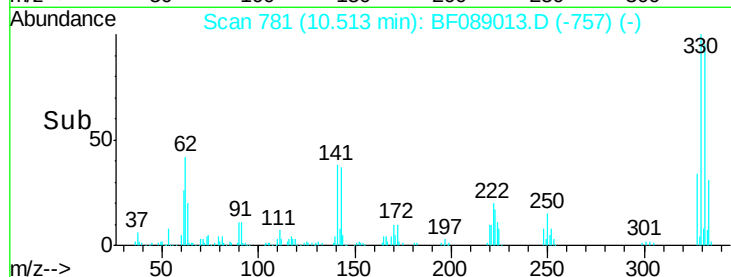
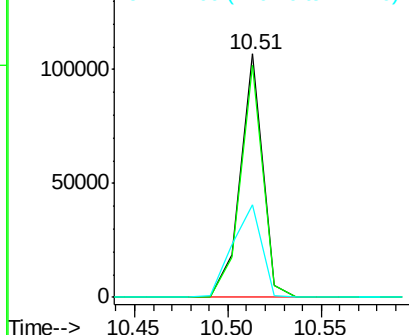
#41
 2,4,6-Tribromophenol
 Concen: 125.90 ng
 RT: 10.51 min Scan# 781
 Delta R.T. -0.02 min
 Lab File: BF089013.D
 Acq: 15 Jul 2016 4:50

Instrument :
 BNA_F
 ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.8	0.0	0.0#
141	49.6	0.0	0.0#

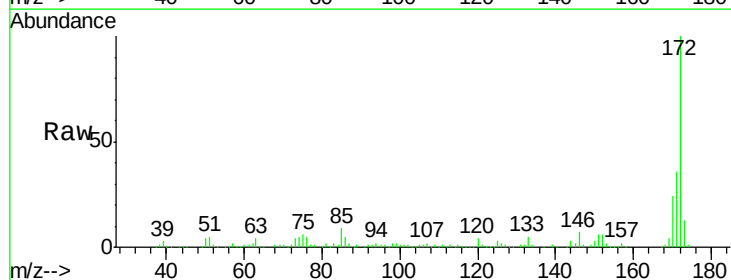


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

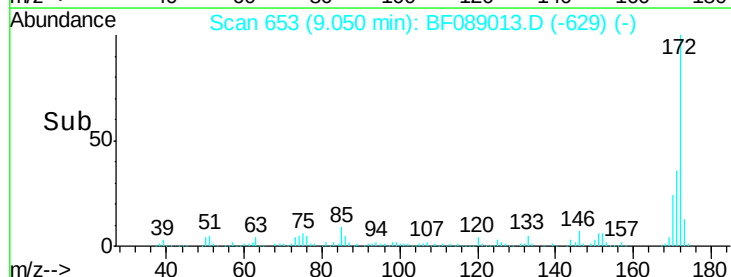
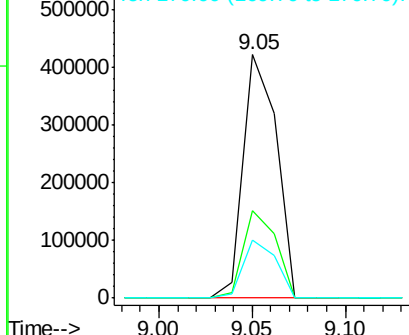


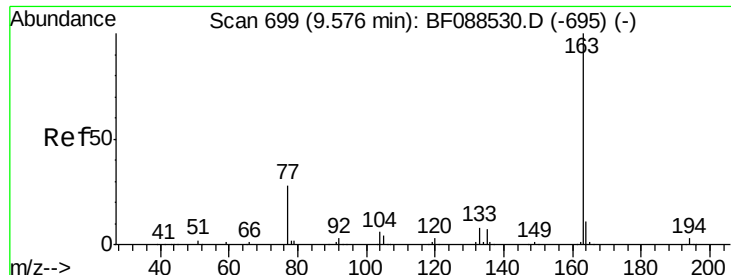
#44
 2-Fluorobiphenyl
 Concen: 109.04 ng
 RT: 9.05 min Scan# 653
 Delta R.T. -0.02 min
 Lab File: BF089013.D
 Acq: 15 Jul 2016 4:50

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.6	43.0
170	23.9	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





#49

Dimethylphthalate

Concen: 24.19 ng

RT: 9.45 min Scan# 688

Delta R.T. -0.03 min

Lab File: BF089013.D

Acq: 15 Jul 2016 4:50

Instrument :

BNA_F

ClientSampleId :

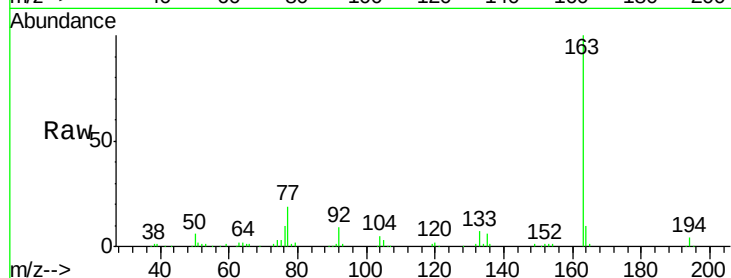
Tgt Ion:163 Resp: 132260

Ion Ratio Lower Upper

163 100

194 3.5 2.8 4.2

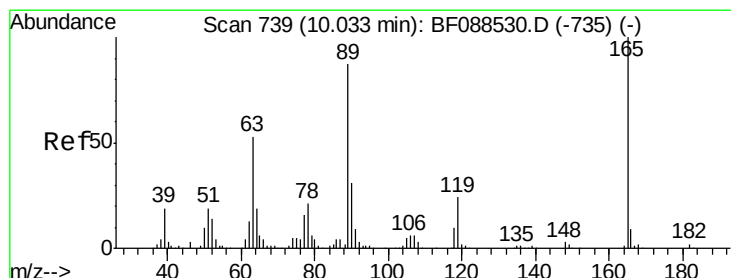
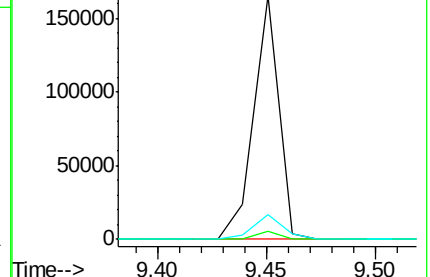
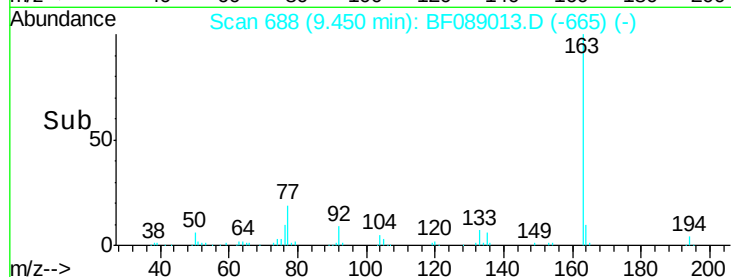
164 10.3 8.3 12.5



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#56

2,4-Dinitrotoluene

Concen: 6.28 ng

RT: 9.72 min Scan# 712

Delta R.T. -0.22 min

Lab File: BF089013.D

Acq: 15 Jul 2016 4:50

Tgt Ion:165 Resp: 9950

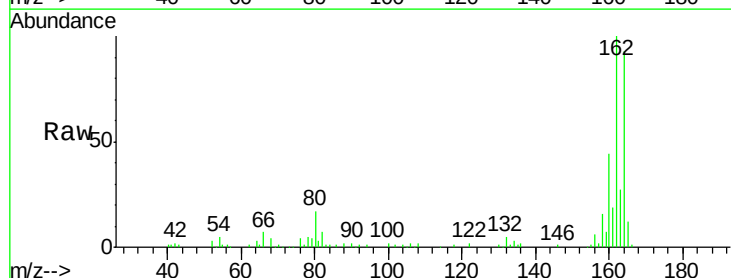
Ion Ratio Lower Upper

165 100

63 0.0 22.0 33.0#

89 0.0 41.1 61.7#

182 0.0 2.0 3.0#

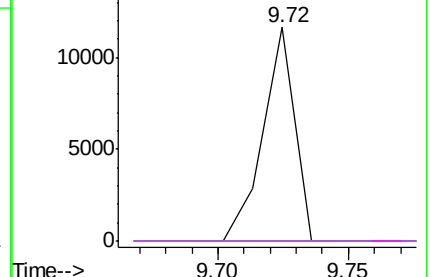
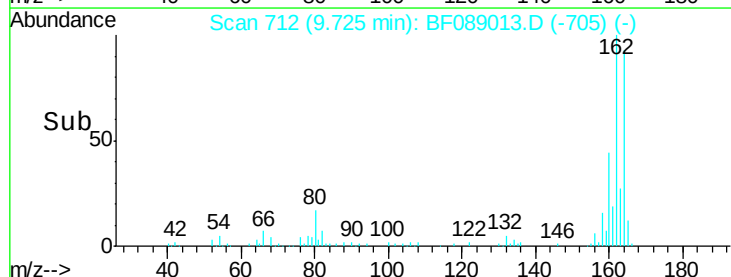


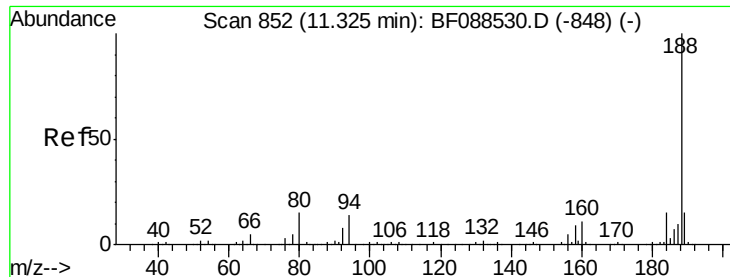
Abundance Ion 165.00 (164.70 to 165.70): E

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

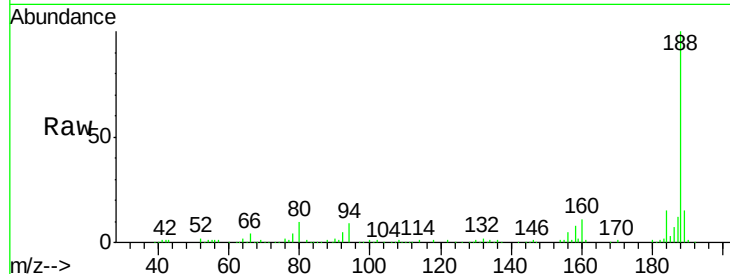




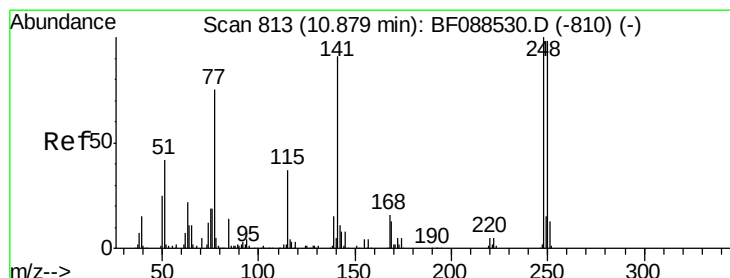
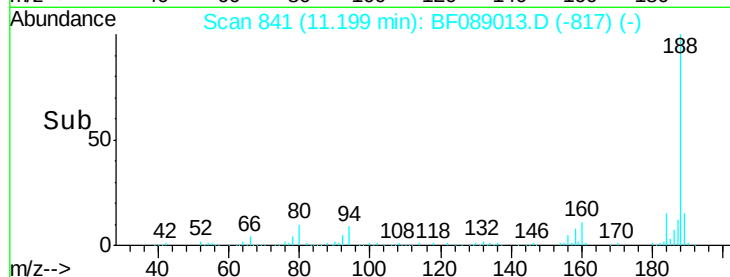
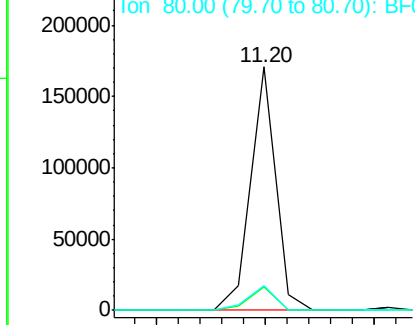
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.20 min Scan# 841
Delta R.T. -0.02 min
Lab File: BF089013.D
Acq: 15 Jul 2016 4:50

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:188 Resp: 137016
Ion Ratio Lower Upper
188 100
94 9.5 9.0 13.6
80 10.3 10.0 15.0

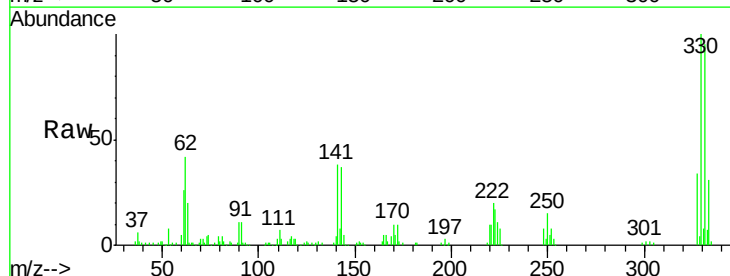


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

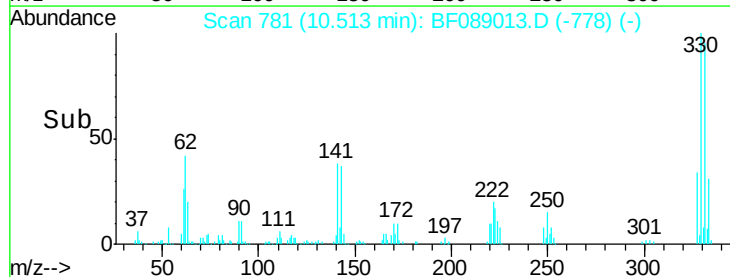
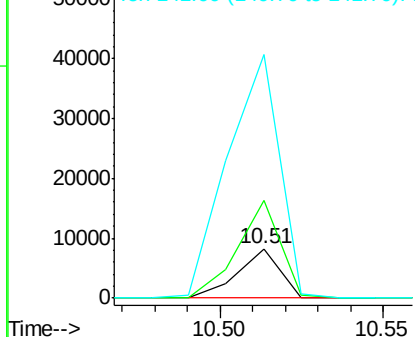


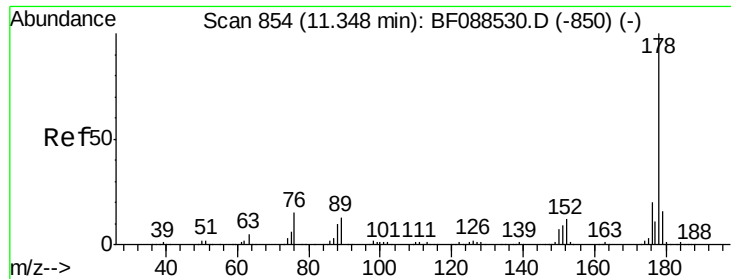
#66
4-Bromophenyl-phenylether
Concen: 5.28 ng
RT: 10.51 min Scan# 781
Delta R.T. -0.26 min
Lab File: BF089013.D
Acq: 15 Jul 2016 4:50

Tgt Ion:248 Resp: 7292
Ion Ratio Lower Upper
248 100
250 196.7 77.1 115.7#
141 490.5 50.6 76.0#



Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

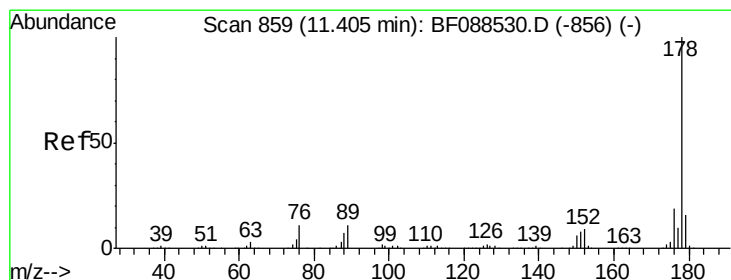
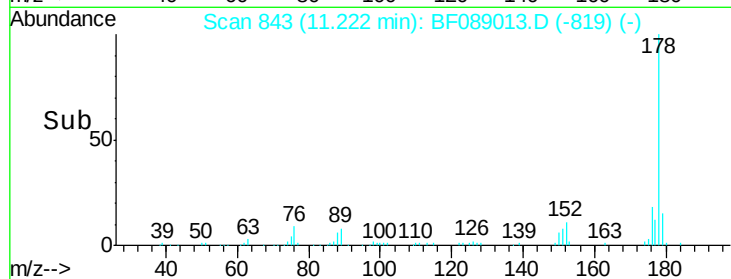
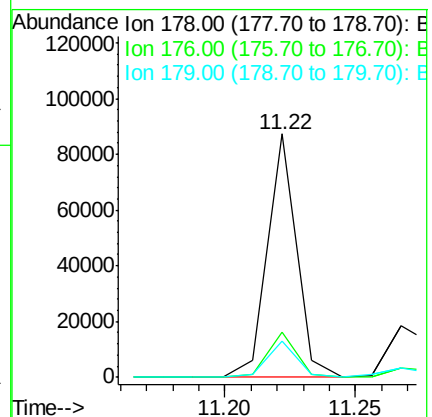
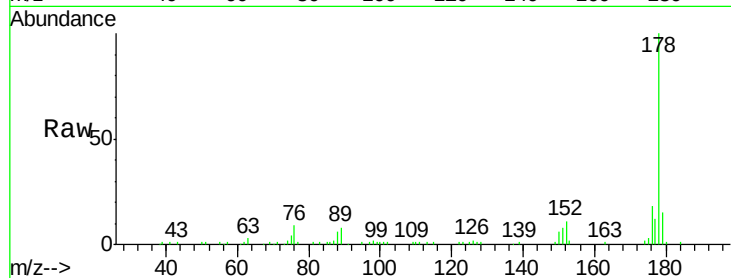




#70
 Phenanthrene
 Concen: 9.14 ng
 RT: 11.22 min Scan# 843
 Delta R.T. -0.02 min
 Lab File: BF089013.D
 Acq: 15 Jul 2016 4:50

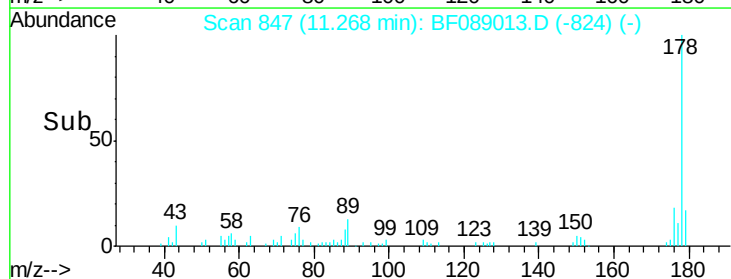
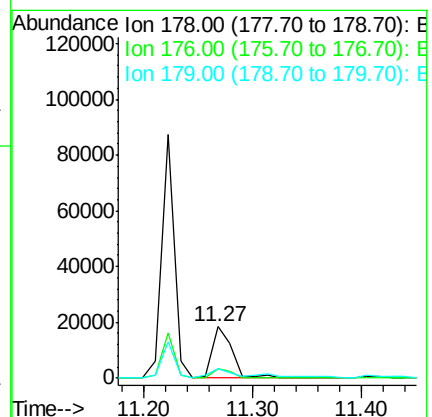
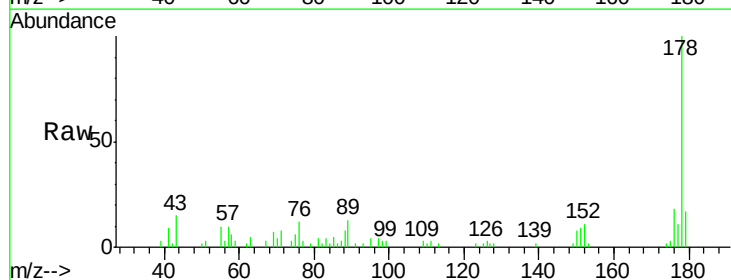
Instrument :
 BNA_F
 ClientSampled :

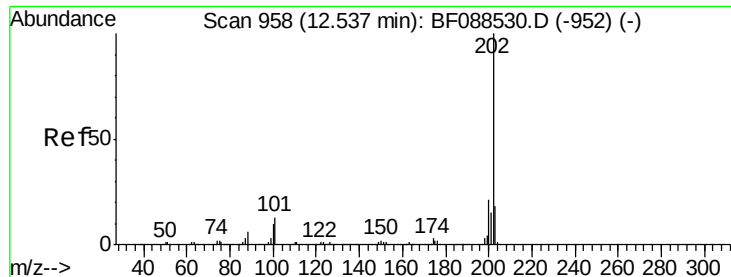
Tgt Ion:178 Resp: 68448
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.8 23.6
 179 15.1 13.0 19.4



#71
 Anthracene
 Concen: 3.16 ng
 RT: 11.27 min Scan# 847
 Delta R.T. -0.03 min
 Lab File: BF089013.D
 Acq: 15 Jul 2016 4:50

Tgt Ion:178 Resp: 23507
 Ion Ratio Lower Upper
 178 100
 176 18.3 15.6 23.4
 179 17.2 12.8 19.2





#74

Fluoranthene

Concen: 15.38 ng

RT: 12.40 min Scan# 946

Delta R.T. -0.02 min

Lab File: BF089013.D

Acq: 15 Jul 2016 4:50

Instrument :

BNA_F

ClientSampleId :

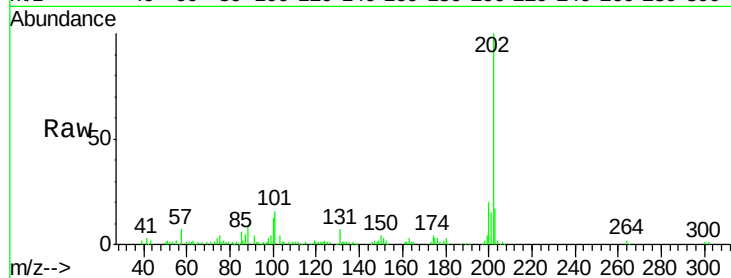
Tgt Ion:202 Resp: 116778

Ion Ratio Lower Upper

202 100

101 16.2 0.0 33.1

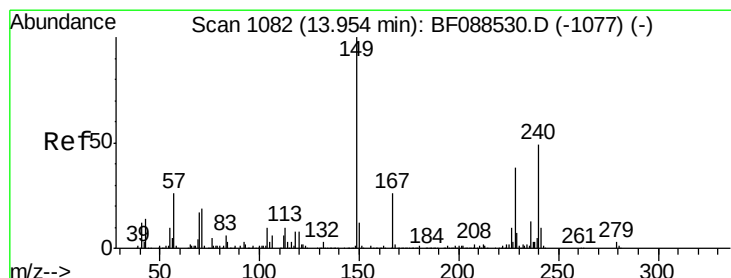
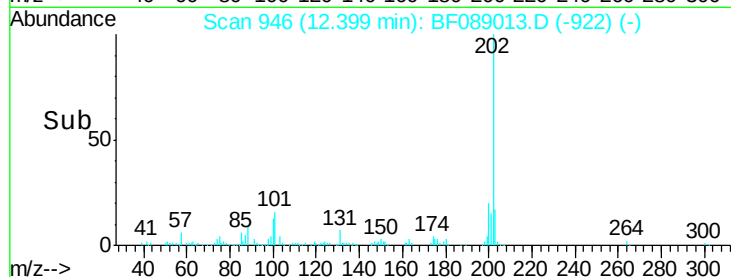
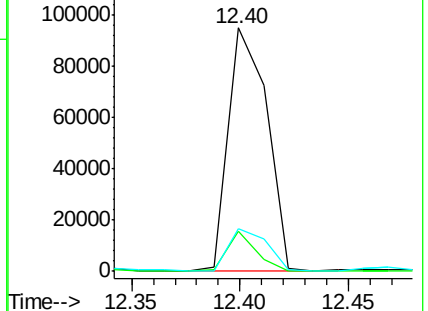
203 17.4 0.0 38.1



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: 13.83 min Scan# 1071

Delta R.T. -0.02 min

Lab File: BF089013.D

Acq: 15 Jul 2016 4:50

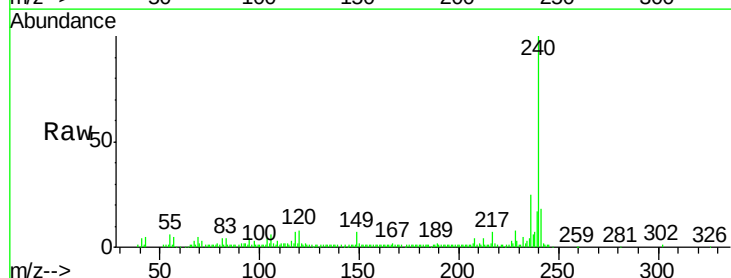
Tgt Ion:240 Resp: 91610

Ion Ratio Lower Upper

240 100

120 8.1 6.8 10.2

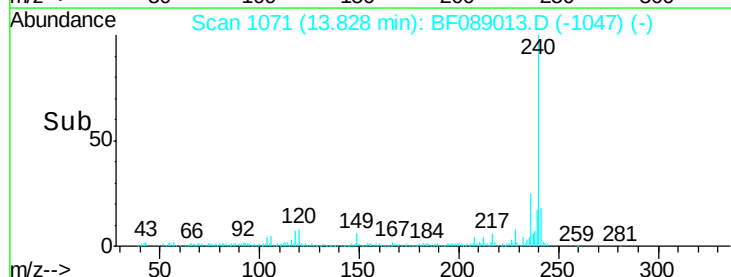
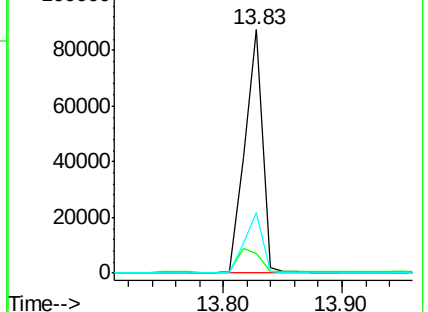
236 24.7 20.2 30.2

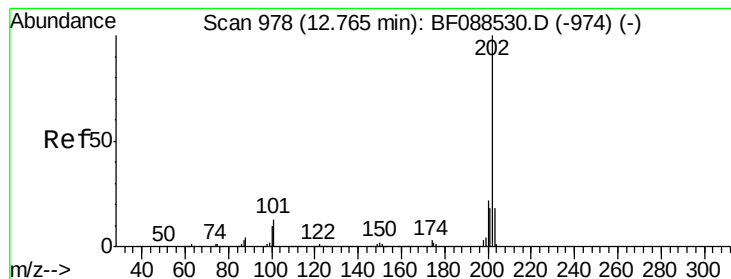


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 14.42 ng

RT: 12.63 min Scan# 966

Delta R.T. -0.02 min

Lab File: BF089013.D

Acq: 15 Jul 2016 4:50

Instrument :

BNA_F

ClientSampleId :

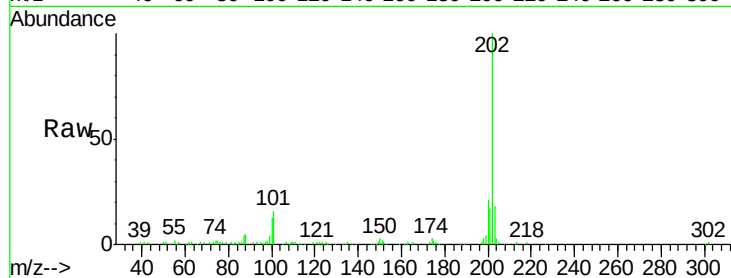
Tgt Ion:202 Resp: 112034

Ion Ratio Lower Upper

202 100

200 21.0 17.4 26.2

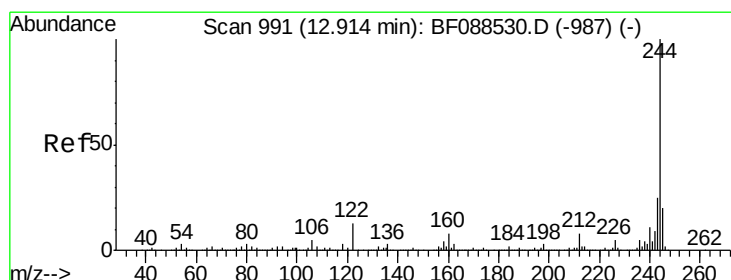
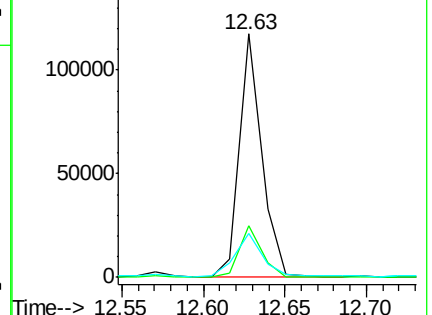
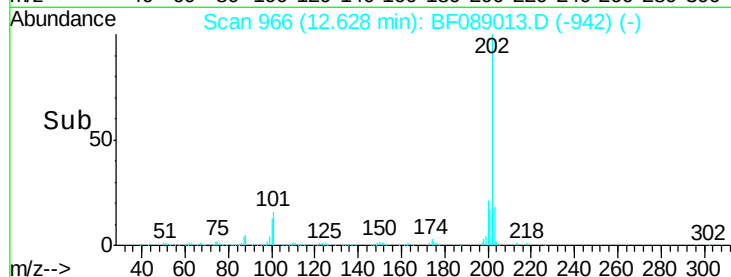
203 18.1 14.5 21.7



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: 106.85 ng

RT: 12.79 min Scan# 980

Delta R.T. -0.01 min

Lab File: BF089013.D

Acq: 15 Jul 2016 4:50

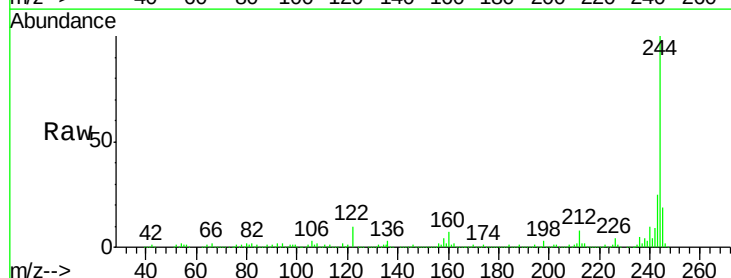
Tgt Ion:244 Resp: 439478

Ion Ratio Lower Upper

244 100

212 7.7 6.0 9.0

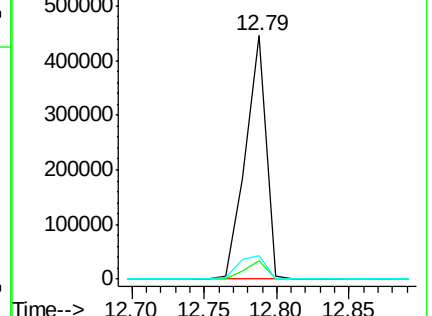
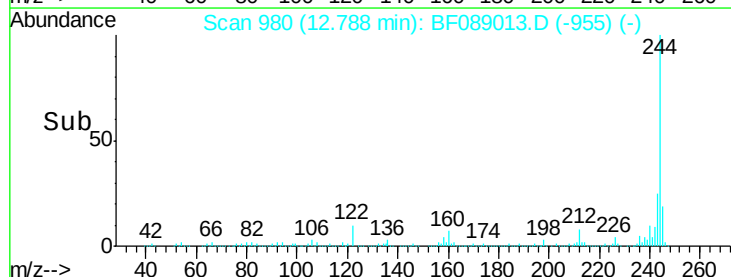
122 9.9 11.2 16.8#

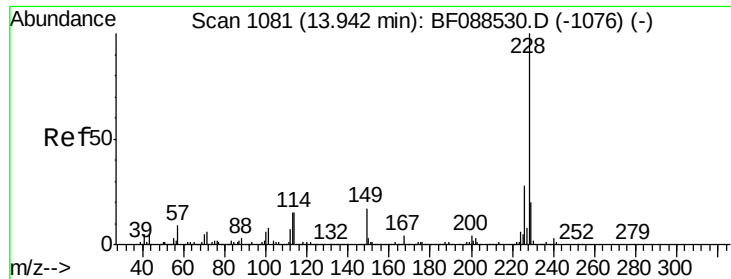


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

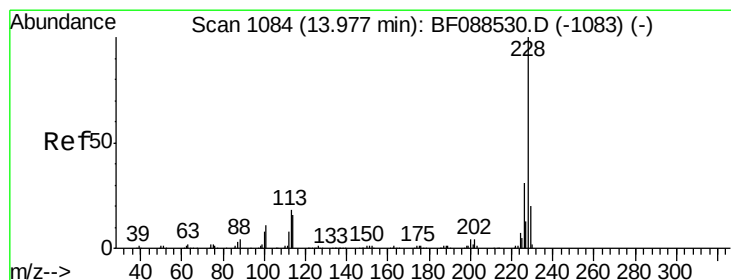
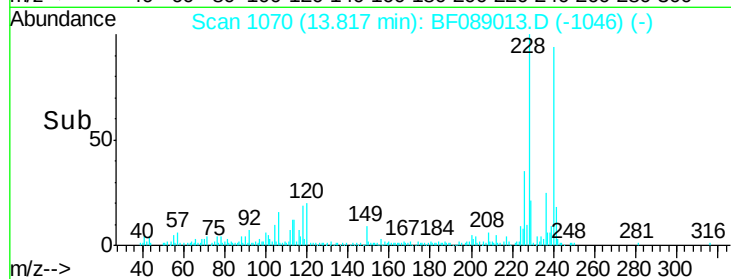
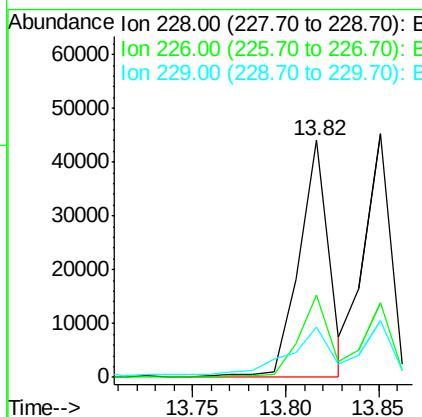
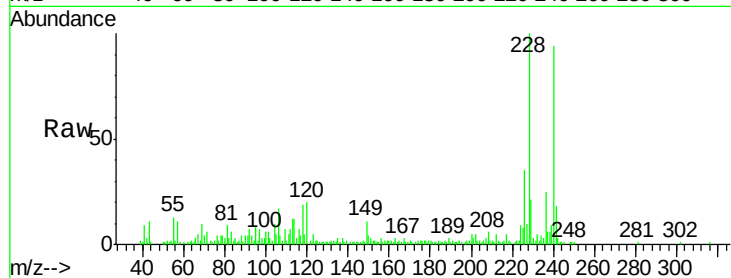




#80
Benzo(a)anthracene
Concen: 8.39 ng
RT: 13.82 min Scan# 1070
Delta R.T. -0.02 min
Lab File: BF089013.D
Acq: 15 Jul 2016 4:50

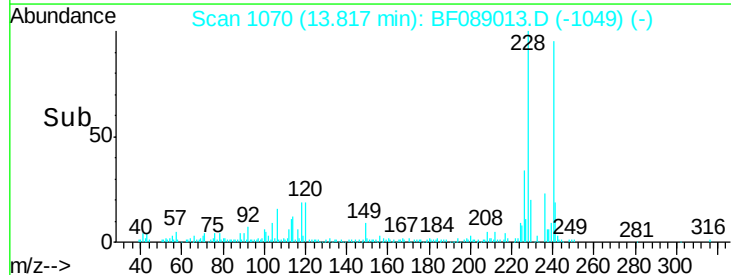
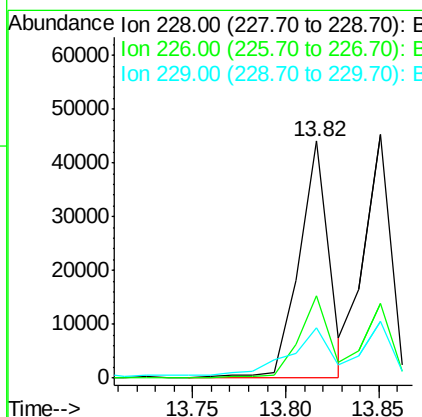
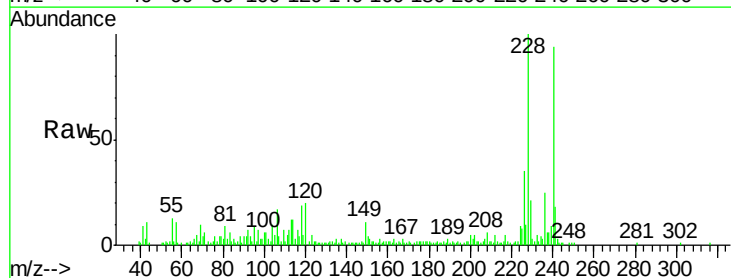
Instrument :
BNA_F
ClientSampleId :

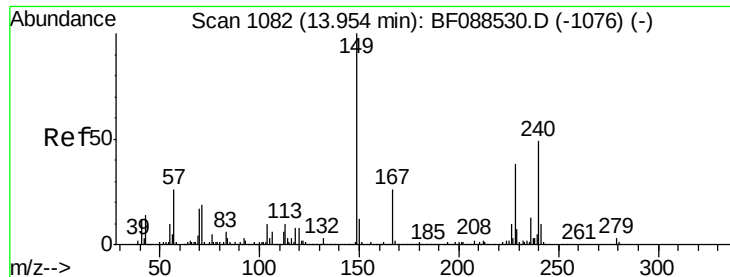
Tgt Ion:228 Resp: 49469
Ion Ratio Lower Upper
228 100
226 34.5 22.3 33.5#
229 21.4 16.0 24.0



#82
Chrysene
Concen: 8.48 ng
RT: 13.82 min Scan# 1070
Delta R.T. -0.06 min
Lab File: BF089013.D
Acq: 15 Jul 2016 4:50

Tgt Ion:228 Resp: 49469
Ion Ratio Lower Upper
228 100
226 34.5 25.4 38.2
229 21.4 16.3 24.5

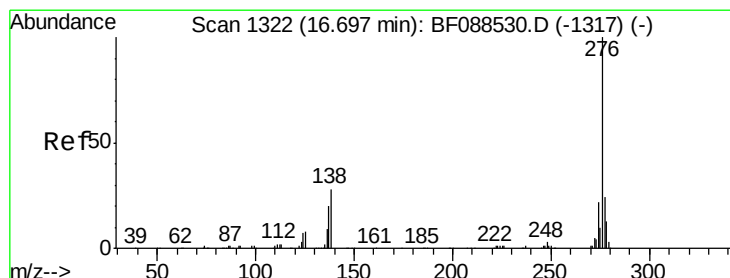
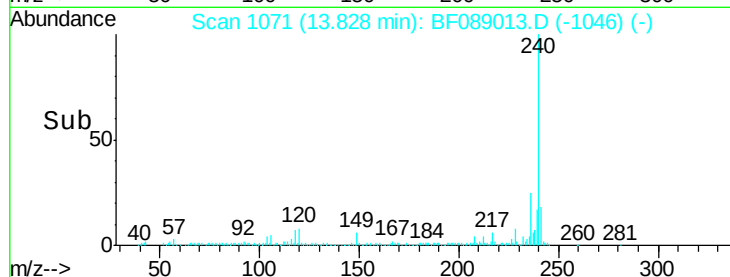
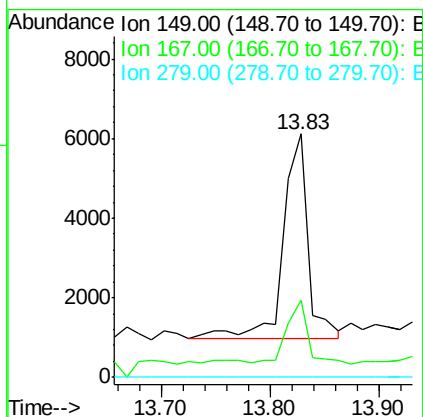
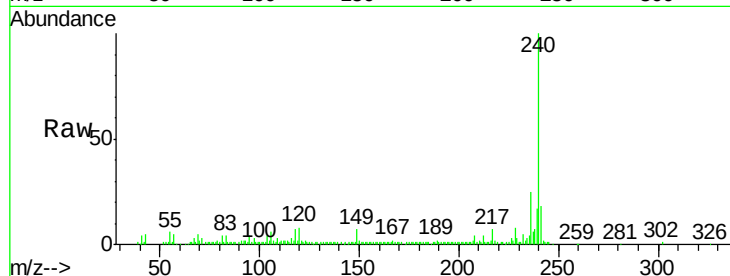




#83
Bis(2-ethylhexyl)phthalate
Concen: 2.06 ng
RT: 13.83 min Scan# 1071
Delta R.T. -0.01 min
Lab File: BF089013.D
Acq: 15 Jul 2016 4:50

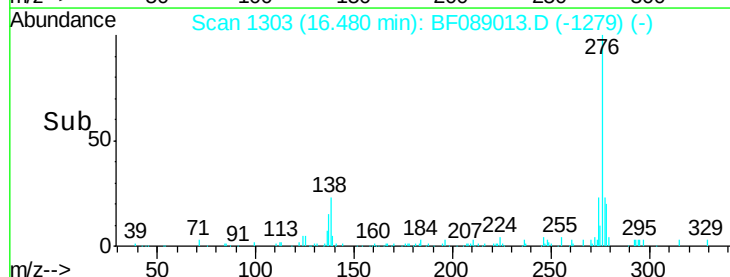
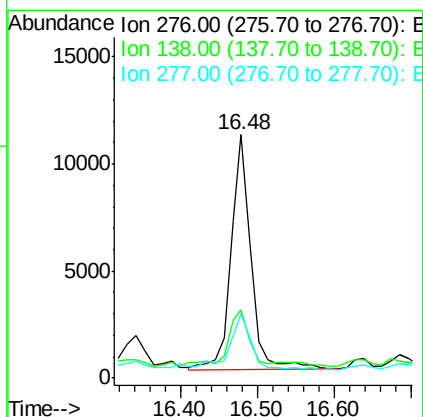
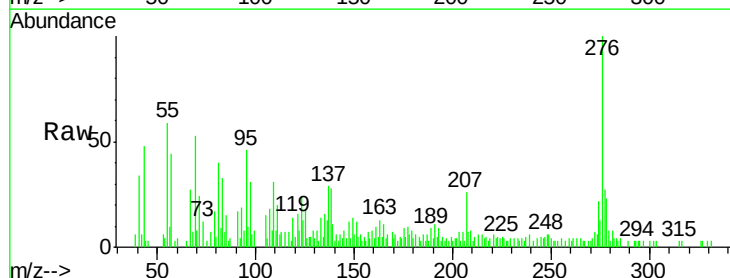
Instrument :
BNA_F
ClientSampleId :

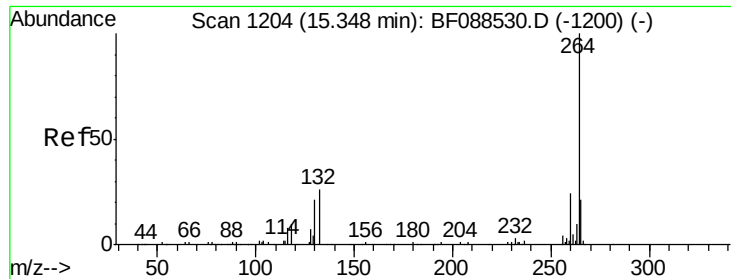
Tgt Ion:149 Resp: 8163
Ion Ratio Lower Upper
149 100
167 31.6 20.5 30.7#
279 0.0 2.0 3.0#



#85
Indeno(1,2,3-cd)pyrene
Concen: 4.46 ng
RT: 16.48 min Scan# 1303
Delta R.T. -0.02 min
Lab File: BF089013.D
Acq: 15 Jul 2016 4:50

Tgt Ion:276 Resp: 20034
Ion Ratio Lower Upper
276 100
138 25.9 0.0 0.0#
277 26.7 0.0 0.0#





#86

Perylene-d12

Concen: 20.00 ng

RT: 15.20 min Scan# 1191

Delta R.T. -0.01 min

Lab File: BF089013.D

Acq: 15 Jul 2016 4:50

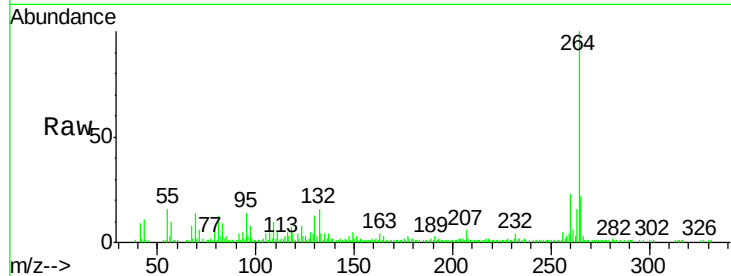
Instrument :

BNA_F

ClientSampleId :

Tgt Ion:264 Resp: 67419

Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.2	28.8
265	22.1	16.9	25.3

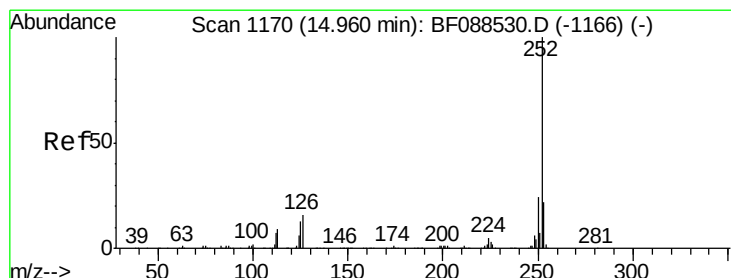
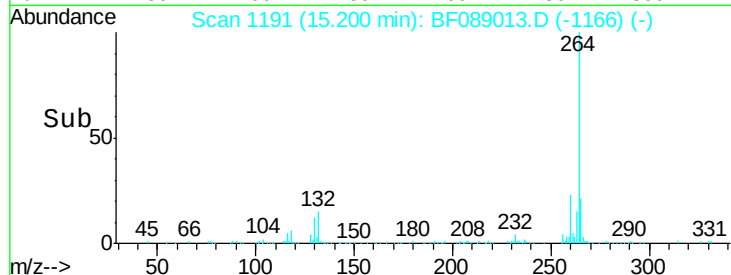
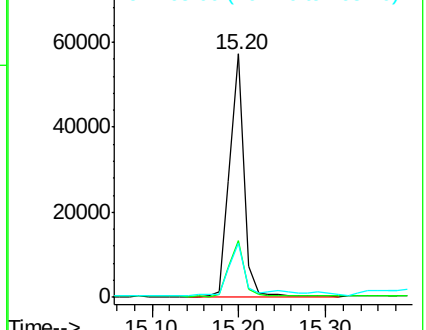


Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 14.56 ng

RT: 14.82 min Scan# 1158

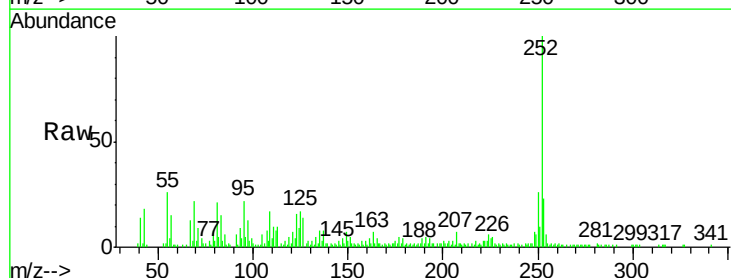
Delta R.T. -0.01 min

Lab File: BF089013.D

Acq: 15 Jul 2016 4:50

Tgt Ion:252 Resp: 61587

Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.4	26.2
125	17.1	7.1	10.7#

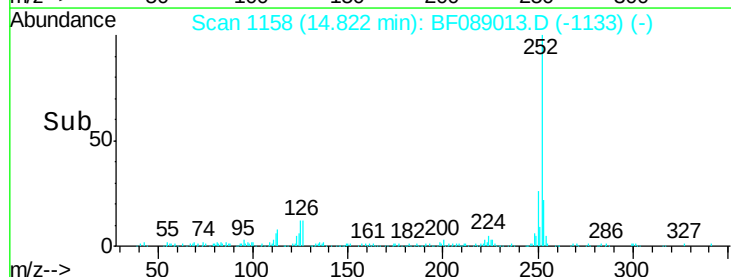
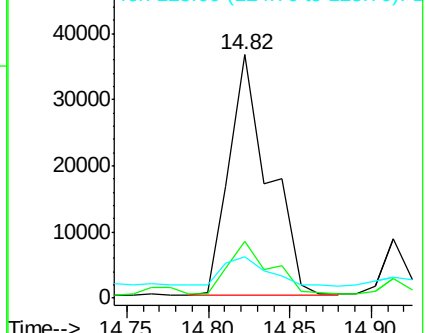


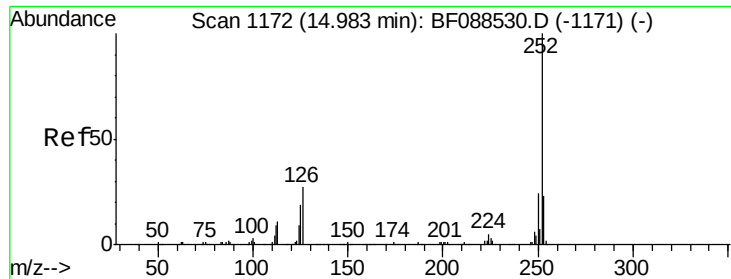
Abundance

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: 16.73 ng

RT: 14.82 min Scan# 1158

Delta R.T. -0.05 min

Lab File: BF089013.D

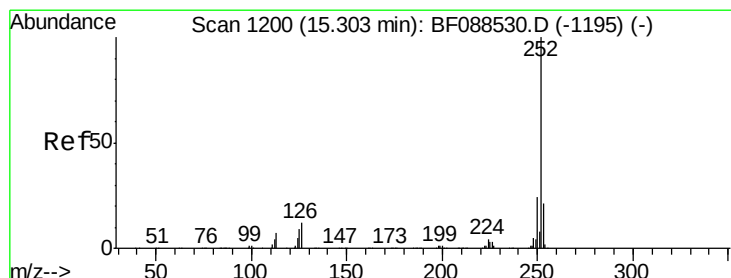
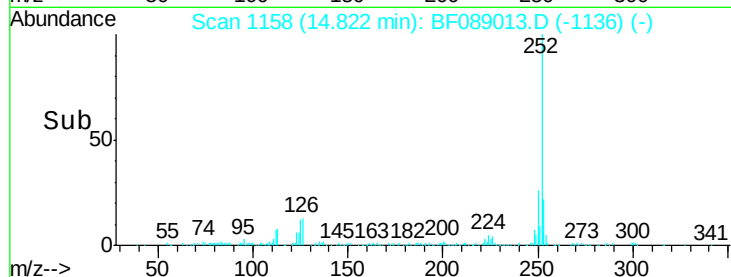
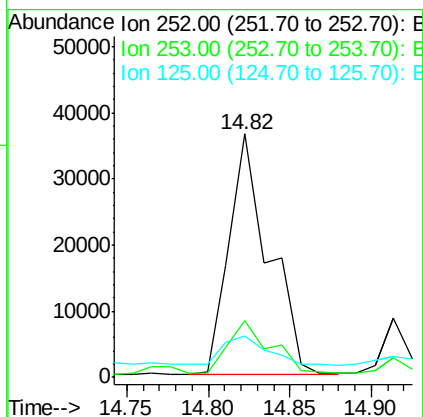
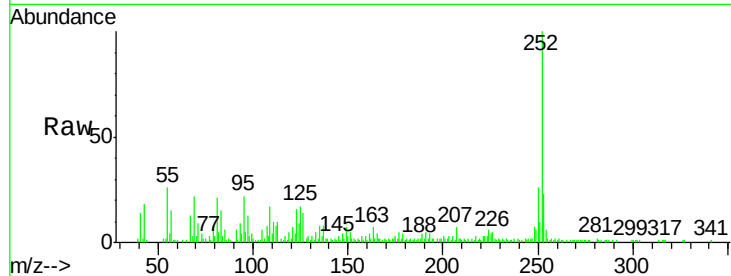
Acq: 15 Jul 2016 4:50

Instrument :

BNA_F

ClientSampleId :

Tgt Ion:	252	Resp:	61587
Ion Ratio	Lower	Upper	
252	100		
253	23.4	18.0	27.0
125	17.1	11.2	16.8#



#89

Benzo(a)pyrene

Concen: 9.09 ng

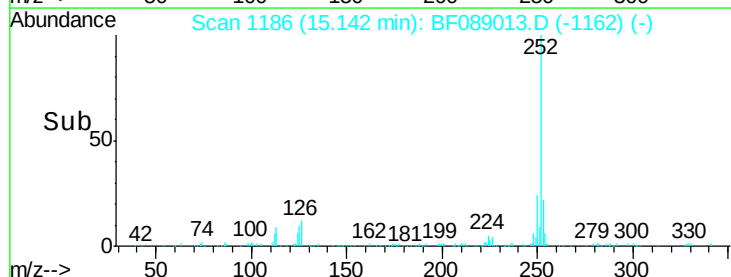
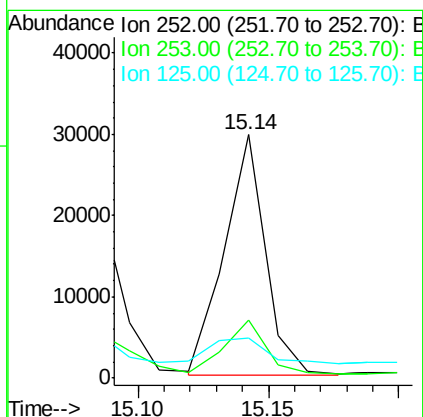
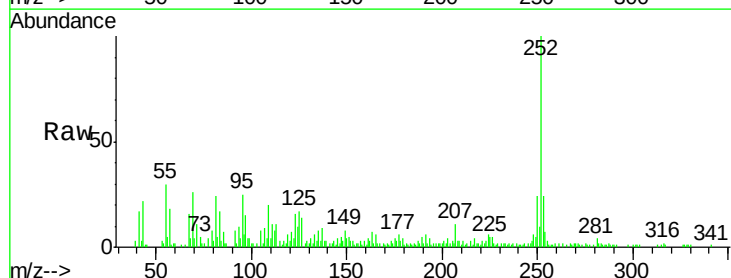
RT: 15.14 min Scan# 1186

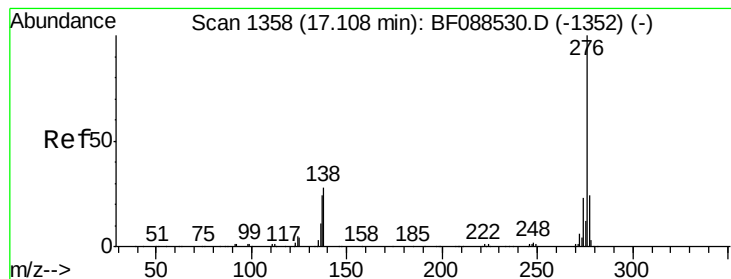
Delta R.T. -0.02 min

Lab File: BF089013.D

Acq: 15 Jul 2016 4:50

Tgt Ion:	252	Resp:	32550
Ion Ratio	Lower	Upper	
252	100		
253	24.0	17.9	26.9
125	16.6	12.5	18.7





#91

Benzo(g,h,i)perylene

Concen: 6.04 ng

RT: 16.87 min Scan# 1337

Delta R.T. -0.02 min

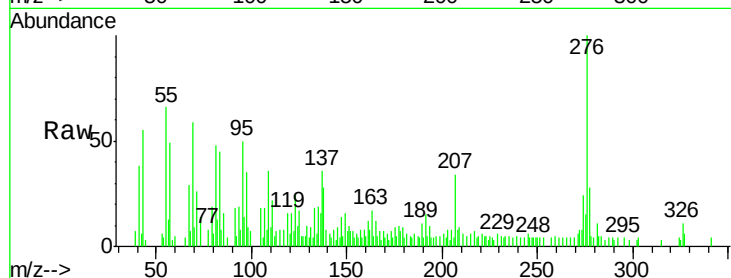
Lab File: BF089013.D

Acq: 15 Jul 2016 4:50

Instrument :

BNA_F

ClientSampleId :



Tgt Ion: 276 Resp: 18676

Ion Ratio Lower Upper

276 100

277 27.8 18.9 28.3

138 28.1 21.4 32.2

