

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF061316\
 Data File : BF087978.D
 Acq On : 13 Jun 2016 12:42
 Operator : UM/SJ
 Sample : H3438-06
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-09-COMP

Quant Time: Jun 13 14:02:49 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 07 18:51:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	119332	20.00	ng	-0.06
21) Naphthalene-d8	8.08	136	511704	20.00	ng	-0.05
38) Acenaphthene-d10	9.84	164	233950	20.00	ng	-0.05
63) Phenanthrene-d10	11.31	188	419532	20.00	ng	-0.05
75) Chrysene-d12	13.94	240	269171	20.00	ng	-0.05
86) Perylene-d12	15.36	264	257793	20.00	ng	-0.03

System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	713965	102.28	ng	-0.05
7) Phenol-d6	6.43	99	951490	112.47	ng	-0.05
23) Nitrobenzene-d5	7.36	82	554776	63.31	ng	-0.06
41) 2,4,6-Tribromophenol	10.63	330	214195	86.71	ng	-0.05
44) 2-Fluorobiphenyl	9.16	172	1027698	67.89	ng	-0.05
78) Terphenyl-d14	12.90	244	698502	59.05	ng	-0.05

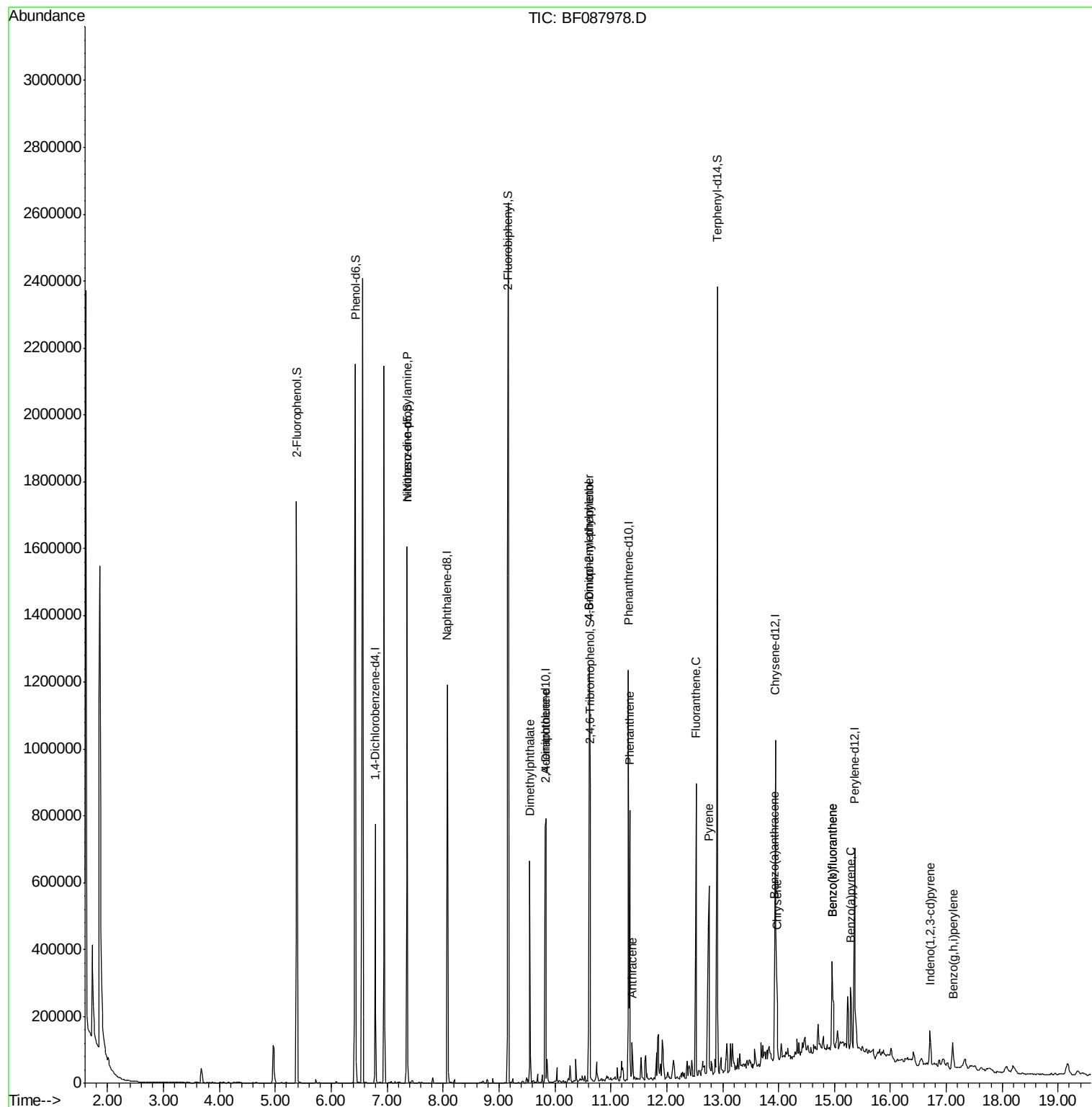
Target Compounds						Qvalue
10) Phenol	6.44	94	10591	Below Cal		97
19) n-Nitroso-di-n-propylamine	7.36	70	73324	13.55 ng	#	72
45) 1,1'-Biphenyl	9.26	154	1600	Below Cal		89
49) Dimethylphthalate	9.55	163	250309	14.77 ng		100
56) 2,4-Dinitrotoluene	9.83	165	29424	5.90 ng	#	38
57) Fluorene	10.38	166	17515	Below Cal		99
64) 4,6-Dinitro-2-methylphenol	10.62	198	317	2.28 ng	#	1
66) 4-Bromophenyl-phenylether	10.62	248	13580	3.02 ng	#	1
70) Phenanthrene	11.34	178	266068	12.09 ng		99
71) Anthracene	11.38	178	53971	2.43 ng		99
74) Fluoranthene	12.53	202	378082	16.27 ng		96
77) Pyrene	12.75	202	306376	15.34 ng		98
80) Benzo(a)anthracene	13.93	228	145912	9.51 ng		99
82) Chrysene	13.97	228	110347	7.65 ng		97
85) Indeno(1,2,3-cd)pyrene	16.71	276	70040	5.22 ng	#	100
87) Benzo(b)fluoranthene	14.96	252	204572	11.39 ng	#	95
88) Benzo(k)fluoranthene	14.96	252	204572	15.09 ng		99
89) Benzo(a)pyrene	15.29	252	100910	6.94 ng		96
91) Benzo(g,h,i)perylene	17.12	276	63684	4.59 ng		96

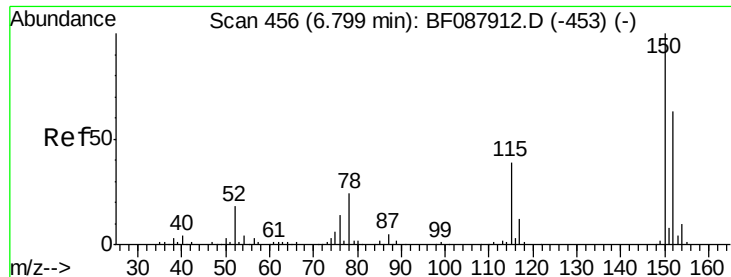
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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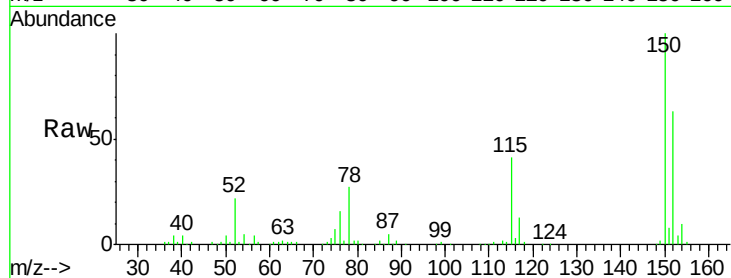


#1

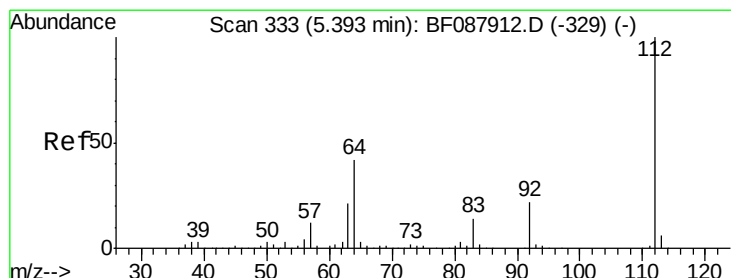
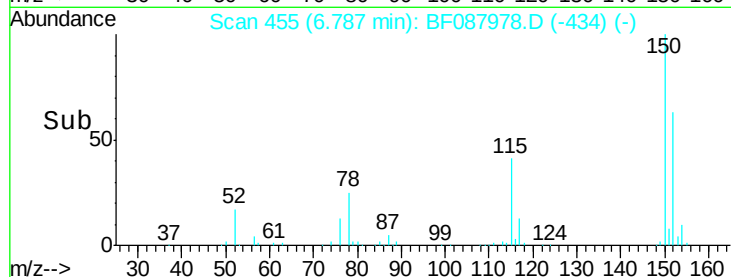
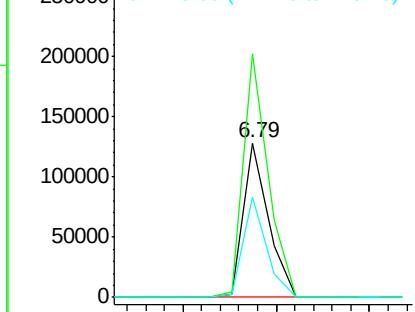
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.79 min Scan# 455
Delta R.T. -0.06 min
Lab File: BF087978.D
Acq: 13 Jun 2016 12:42

Instrument :
BNA_F
ClientSampleId :
SB-09-COMP

Tgt Ion:152 Resp: 119332
Ion Ratio Lower Upper
152 100
150 157.5 123.8 185.6
115 65.3 39.6 59.4#



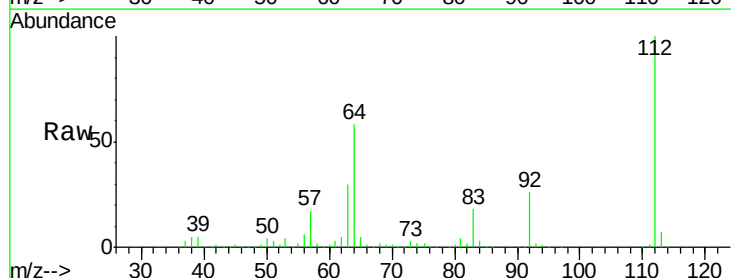
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



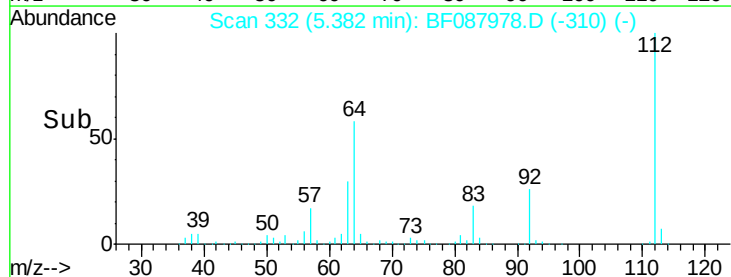
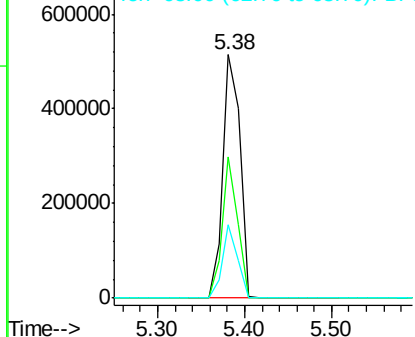
#5

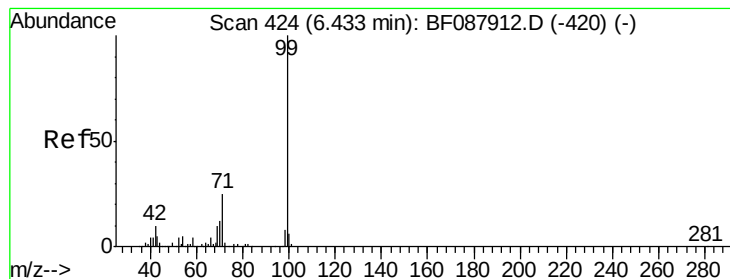
2-Fluorophenol
Concen: 102.28 ng
RT: 5.38 min Scan# 332
Delta R.T. -0.05 min
Lab File: BF087978.D
Acq: 13 Jun 2016 12:42

Tgt Ion:112 Resp: 713965
Ion Ratio Lower Upper
112 100
64 57.9 42.2 63.2
63 29.9 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: 112.47 ng

RT: 6.43 min Scan# 424

Delta R.T. -0.05 min

Lab File: BF087978.D

Acq: 13 Jun 2016 12:42

Instrument :

BNA_F

ClientSampleId :

SB-09-COMP

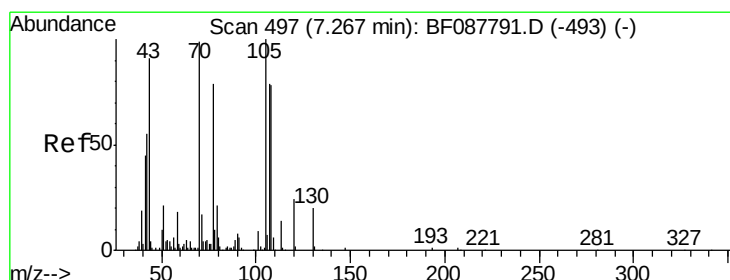
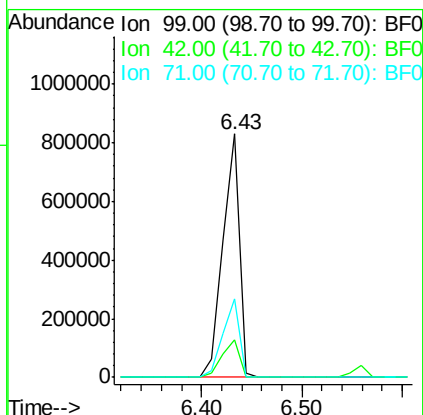
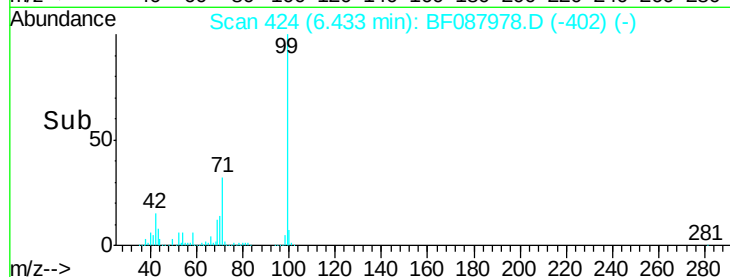
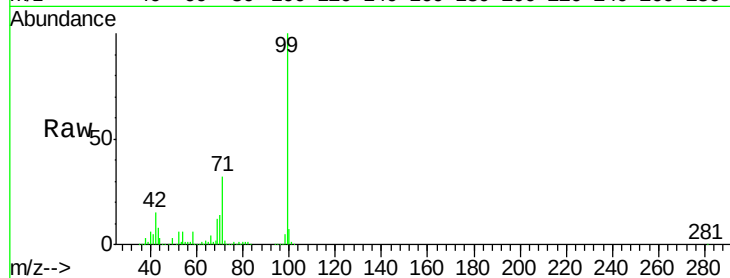
Tgt Ion: 99 Resp: 951490

Ion Ratio Lower Upper

99 100

42 15.3 12.2 18.2

71 32.2 23.4 35.0



#19

n-Nitroso-di-n-propylamine

Concen: 13.55 ng

RT: 7.36 min Scan# 505

Delta R.T. 0.09 min

Lab File: BF087978.D

Acq: 13 Jun 2016 12:42

Tgt Ion: 70 Resp: 73324

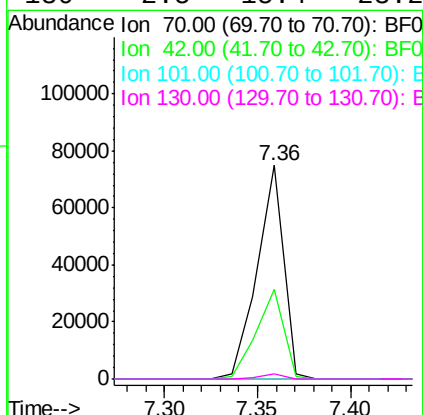
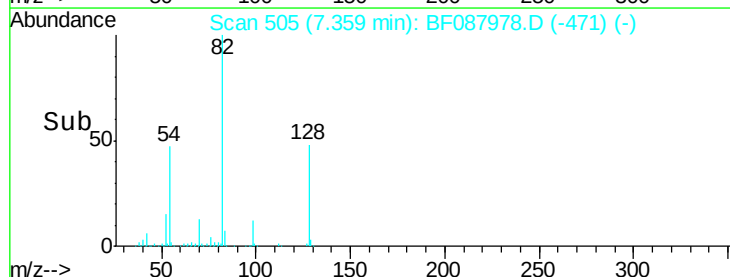
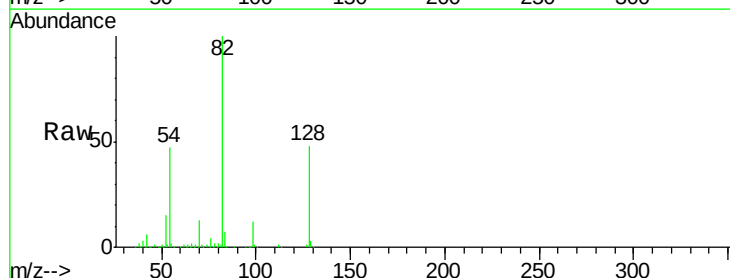
Ion Ratio Lower Upper

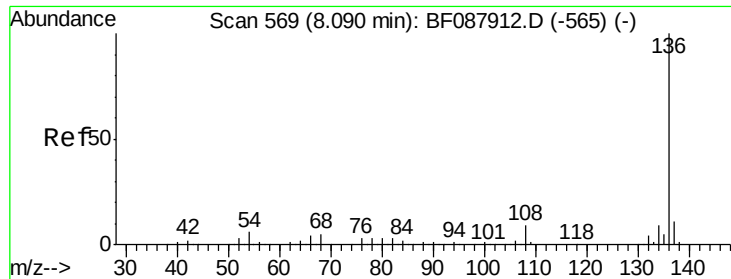
70 100

42 42.0 49.6 74.4#

101 0.0 7.1 10.7#

130 2.5 15.4 23.2#

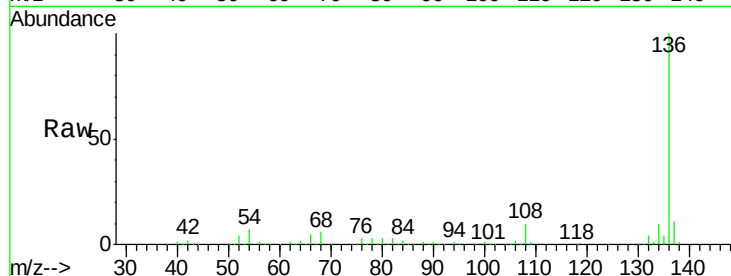




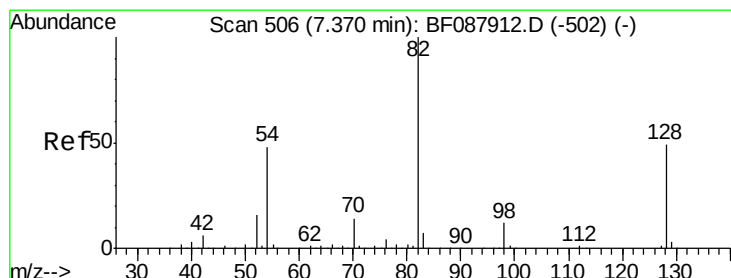
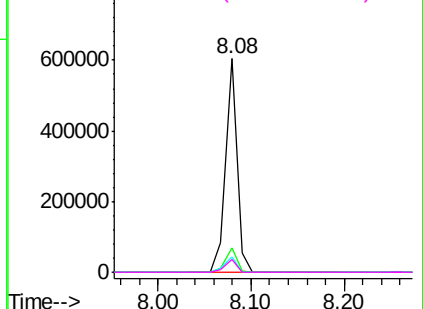
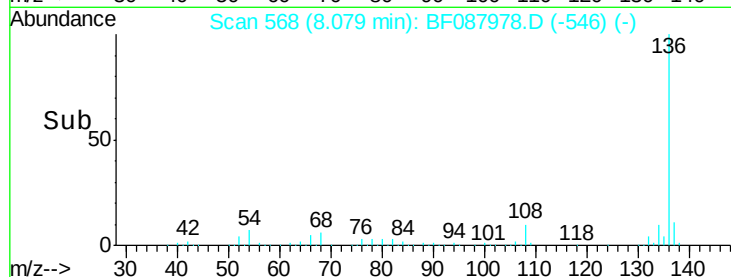
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.08 min Scan# 568
Delta R.T. -0.05 min
Lab File: BF087978.D
Acq: 13 Jun 2016 12:42

Instrument :
BNA_F
ClientSampleId :
SB-09-COMP

Tgt Ion:	136	Resp:	511704
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	7.3	6.6	10.0
68	6.3	5.1	7.7

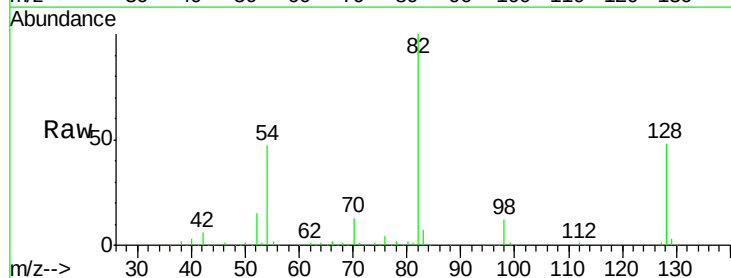


Abundance Ion 136.00 (135.70 to 136.70): B
Ion 137.00 (136.70 to 137.70): B
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

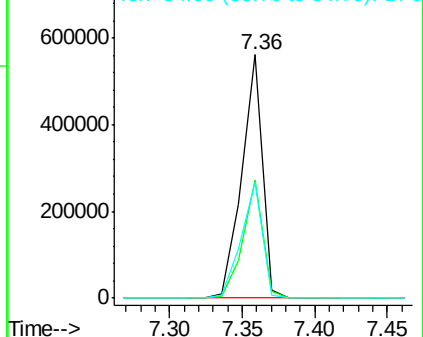
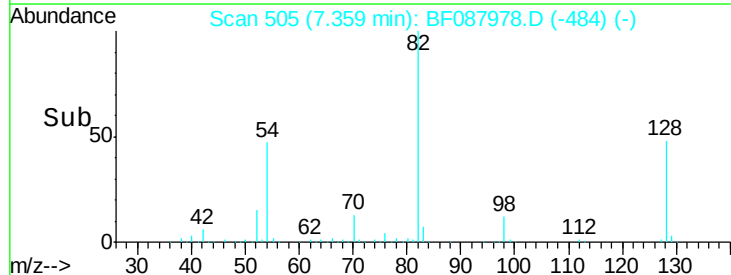


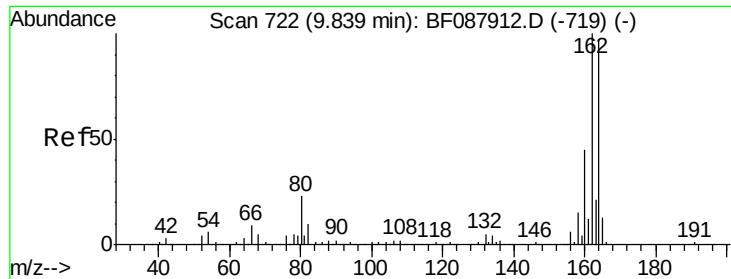
#23
Nitrobenzene-d5
Concen: 63.31 ng
RT: 7.36 min Scan# 505
Delta R.T. -0.06 min
Lab File: BF087978.D
Acq: 13 Jun 2016 12:42

Tgt Ion:	82	Resp:	554776
Ion	Ratio	Lower	Upper
82	100		
128	48.3	35.9	53.9
54	47.4	40.9	61.3



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

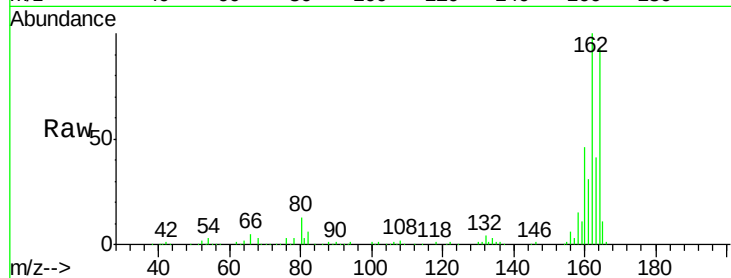




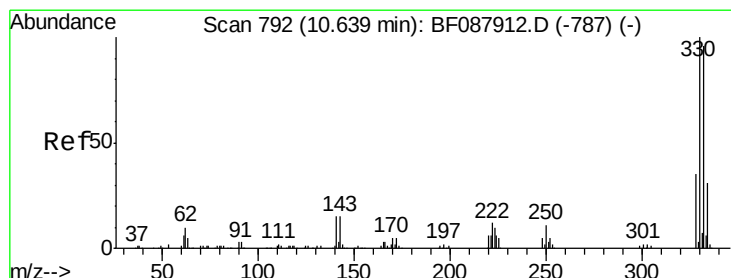
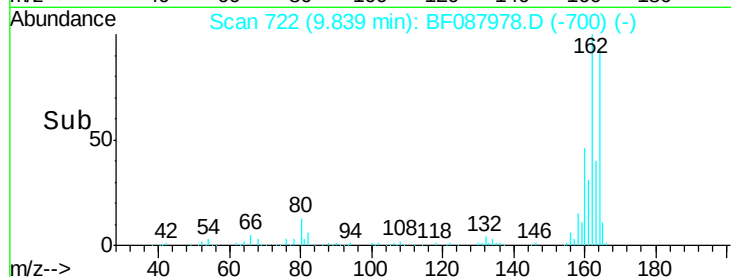
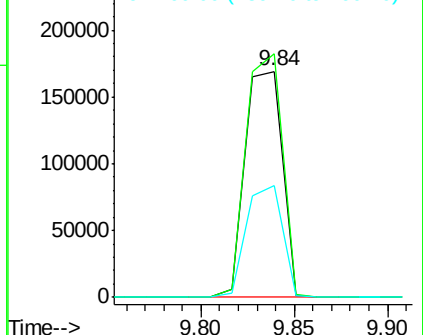
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.84 min Scan# 722
Delta R.T. -0.05 min
Lab File: BF087978.D
Acq: 13 Jun 2016 12:42

Instrument :
BNA_F
ClientSampleId :
SB-09-COMP

Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.9	85.4	128.2
160	49.7	39.5	59.3

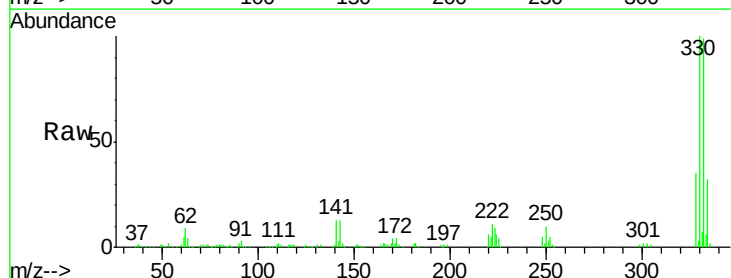


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

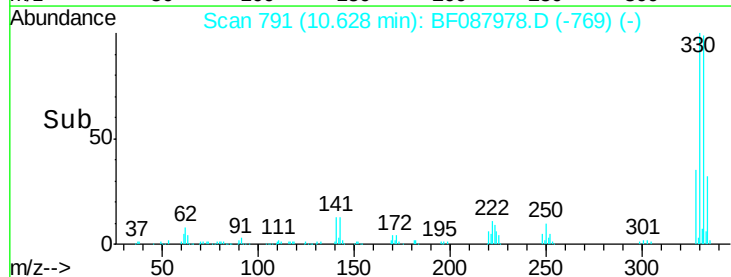
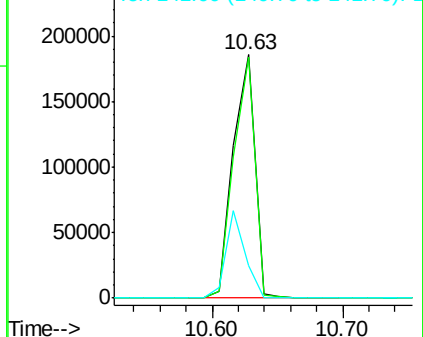


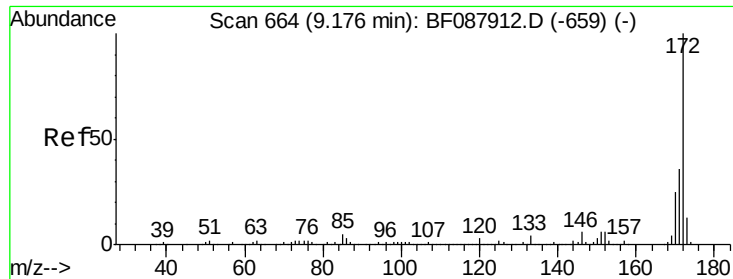
#41
2,4,6-Tribromophenol
Concen: 86.71 ng
RT: 10.63 min Scan# 791
Delta R.T. -0.05 min
Lab File: BF087978.D
Acq: 13 Jun 2016 12:42

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.6	0.0	0.0#
141	32.2	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

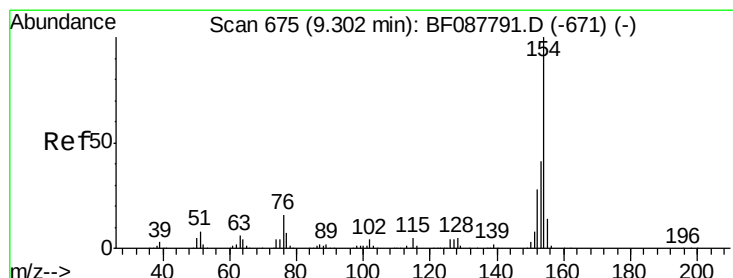
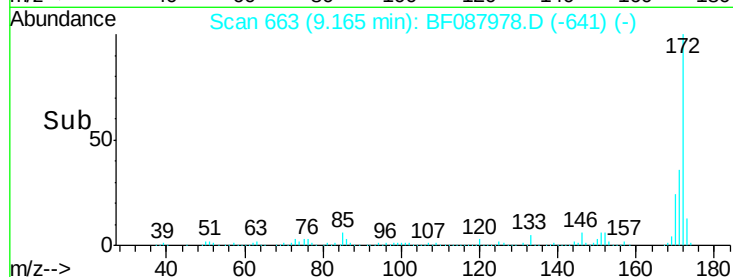
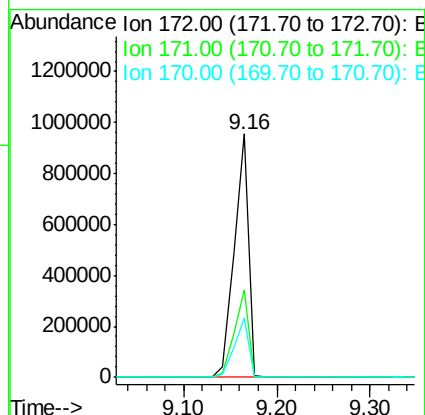
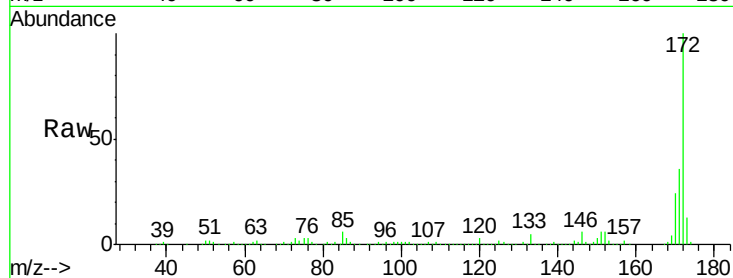




#44
 2-Fluorobiphenyl
 Concen: 67.89 ng
 RT: 9.16 min Scan# 663
 Delta R.T. -0.05 min
 Lab File: BF087978.D
 Acq: 13 Jun 2016 12:42

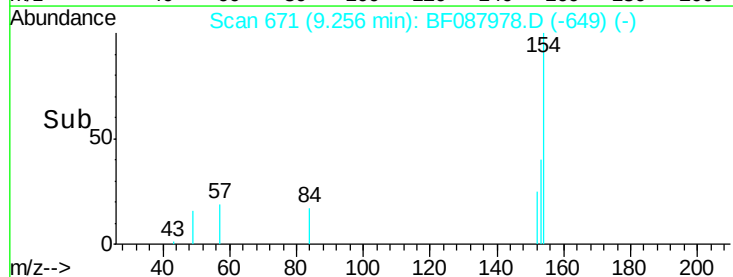
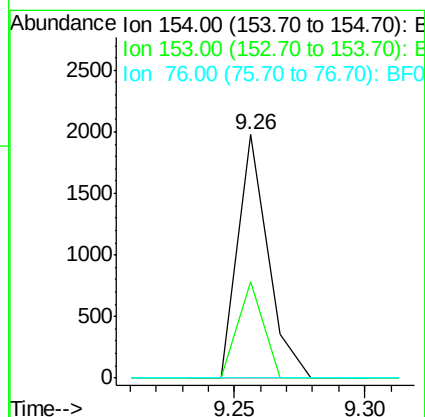
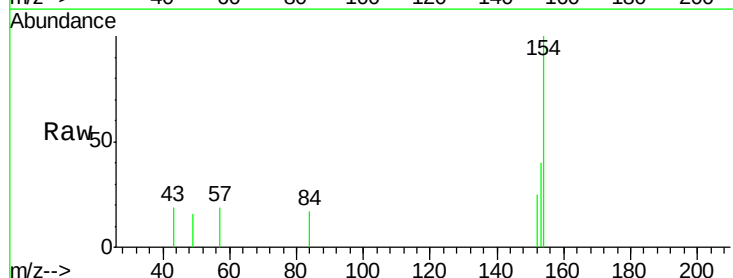
Instrument :
 BNA_F
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 SB-09-COMP

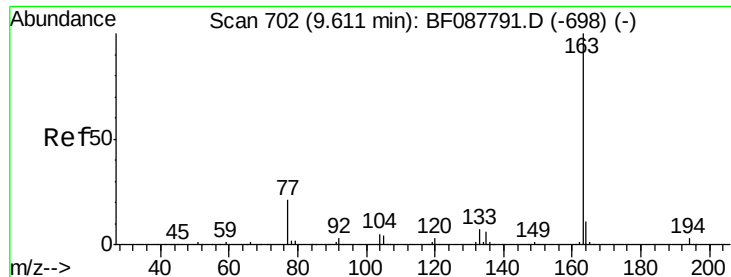
Tgt Ion:172 Resp: 1027698
 Ion Ratio Lower Upper
 172 100
 171 35.8 28.6 43.0
 170 24.3 19.2 28.8



#45
 1,1'-Biphenyl
 Concen: Below Cal
 RT: 9.26 min Scan# 671
 Delta R.T. -0.04 min
 Lab File: BF087978.D
 Acq: 13 Jun 2016 12:42

Tgt Ion:154 Resp: 1600
 Ion Ratio Lower Upper
 154 100
 153 39.6 20.6 60.6
 76 0.0 0.0 35.1

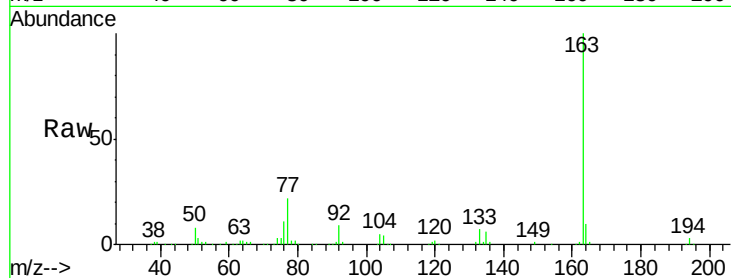




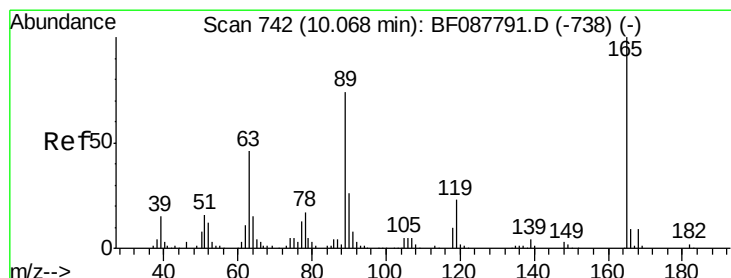
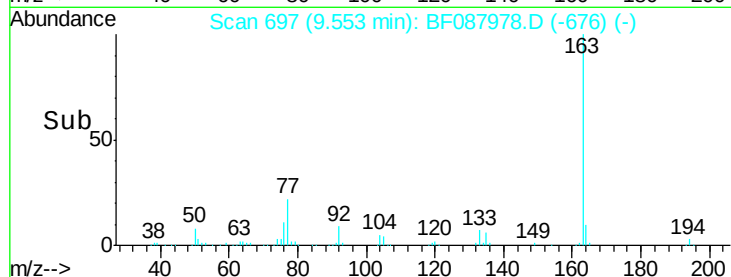
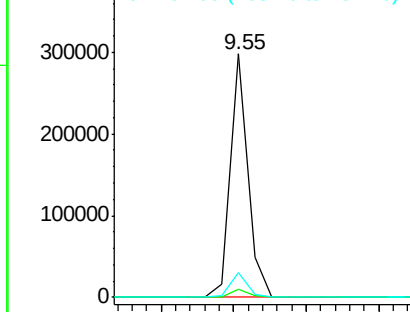
#49
Dimethylphthalate
Concen: 14.77 ng
RT: 9.55 min Scan# 697
Delta R.T. -0.06 min
Lab File: BF087978.D
Acq: 13 Jun 2016 12:42

Instrument :
BNA_F
ClientSampleId :
SB-09-COMP

Tgt Ion:163 Resp: 250309
Ion Ratio Lower Upper
163 100
194 3.1 2.8 4.2
164 10.4 8.3 12.5

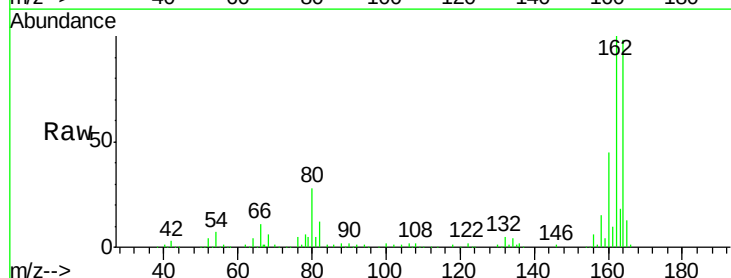


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

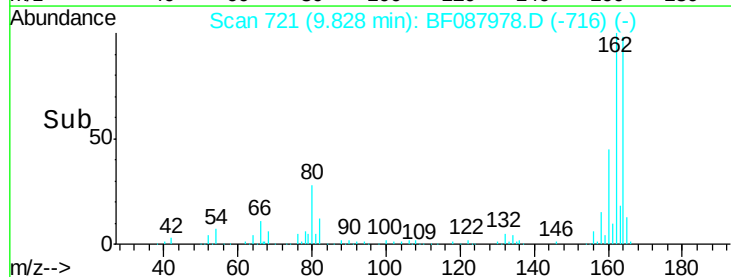
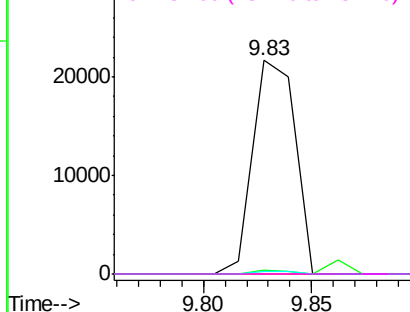


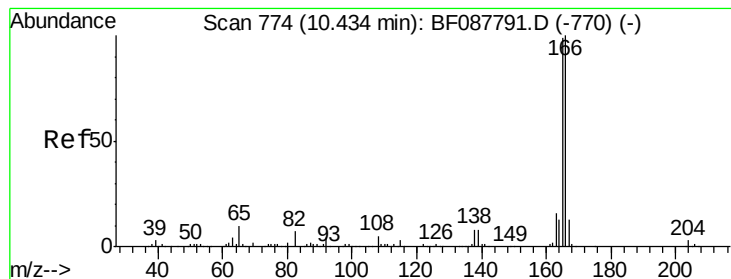
#56
2,4-Dinitrotoluene
Concen: 5.90 ng
RT: 9.83 min Scan# 721
Delta R.T. -0.24 min
Lab File: BF087978.D
Acq: 13 Jun 2016 12:42

Tgt Ion:165 Resp: 29424
Ion Ratio Lower Upper
165 100
63 1.7 22.0 33.0#
89 1.4 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





#57

Fluorene

Concen: Below Cal

RT: 10.38 min Scan# 769

Delta R.T. -0.06 min

Lab File: BF087978.D

Acq: 13 Jun 2016 12:42

Instrument :

BNA_F

ClientSampleId :

SB-09-COMP

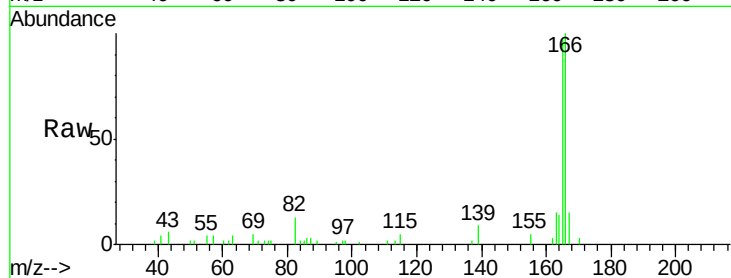
Tgt Ion:166 Resp: 17515

Ion Ratio Lower Upper

166 100

165 96.7 77.8 116.8

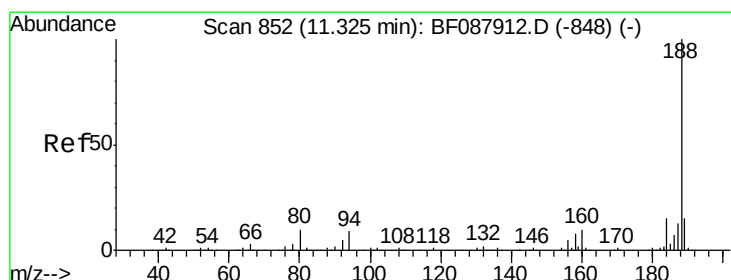
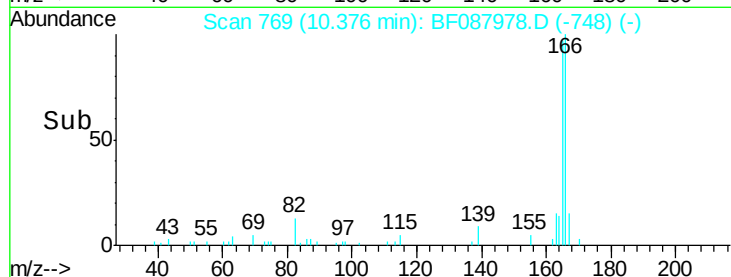
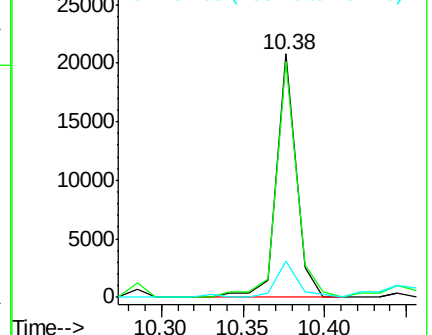
167 14.7 11.2 16.8



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.31 min Scan# 851

Delta R.T. -0.05 min

Lab File: BF087978.D

Acq: 13 Jun 2016 12:42

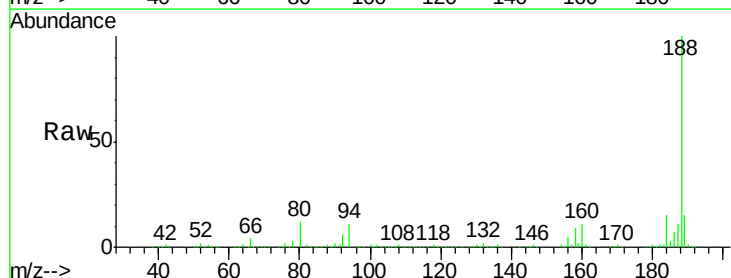
Tgt Ion:188 Resp: 419532

Ion Ratio Lower Upper

188 100

94 11.2 9.0 13.6

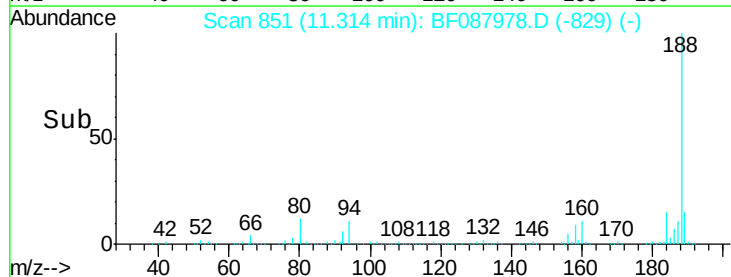
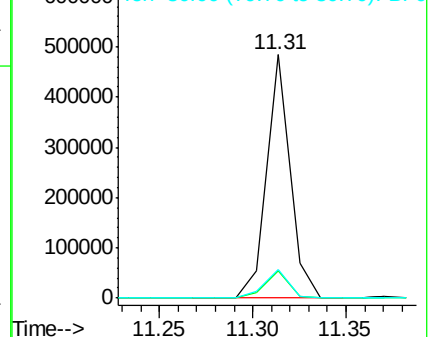
80 11.7 10.0 15.0

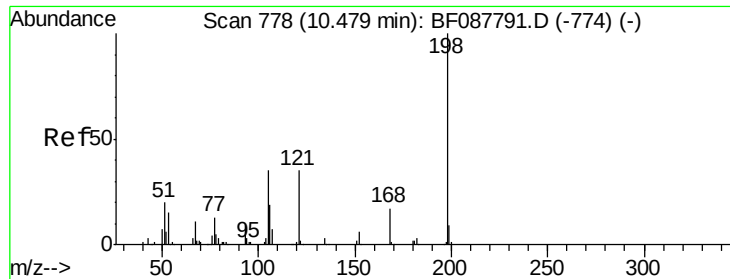


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#64

4,6-Dinitro-2-methylphenol

Concen: 2.28 ng

RT: 10.62 min Scan# 790

Delta R.T. 0.14 min

Lab File: BF087978.D

Acq: 13 Jun 2016 12:42

Instrument :

BNA_F

ClientSampleId :

SB-09-COMP

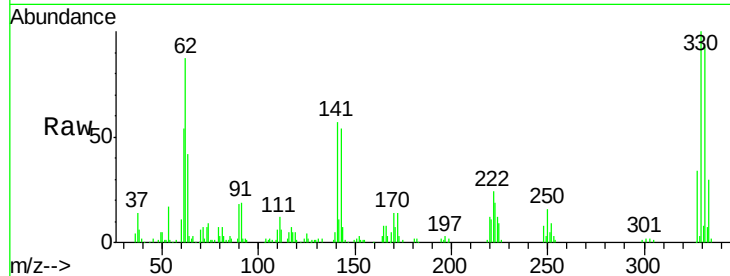
Tgt Ion:198 Resp: 317

Ion Ratio Lower Upper

198 100

51 229.7 39.6 79.6#

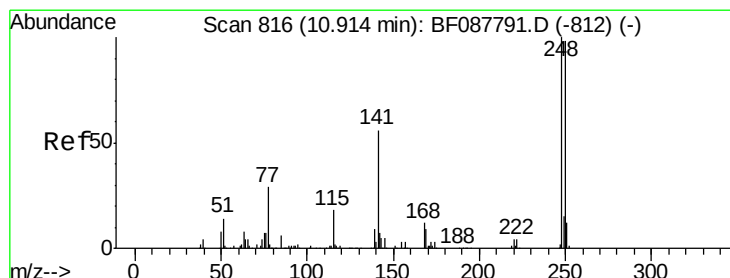
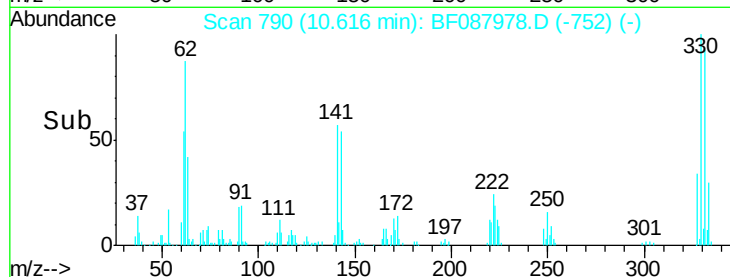
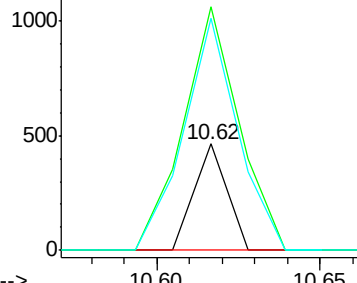
105 218.8 36.6 76.6#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



#66

4-Bromophenyl-phenylether

Concen: 3.02 ng

RT: 10.62 min Scan# 790

Delta R.T. -0.30 min

Lab File: BF087978.D

Acq: 13 Jun 2016 12:42

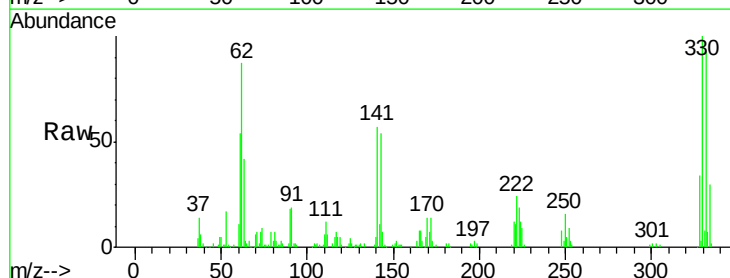
Tgt Ion:248 Resp: 13580

Ion Ratio Lower Upper

248 100

250 193.4 77.1 115.7#

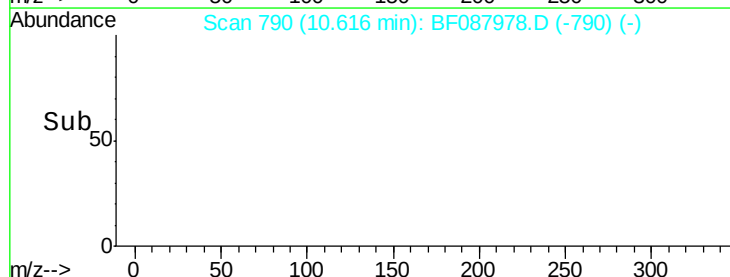
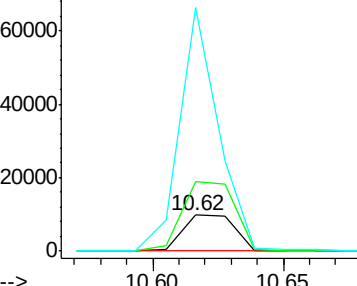
141 674.6 50.6 76.0#

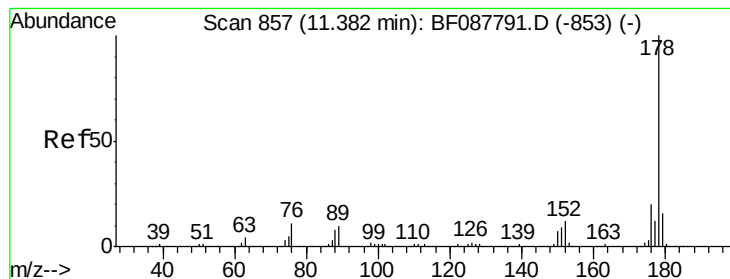


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 12.09 ng

RT: 11.34 min Scan# 853

Delta R.T. -0.05 min

Lab File: BF087978.D

Acq: 13 Jun 2016 12:42

Instrument :

BNA_F

ClientSampleId :

SB-09-COMP

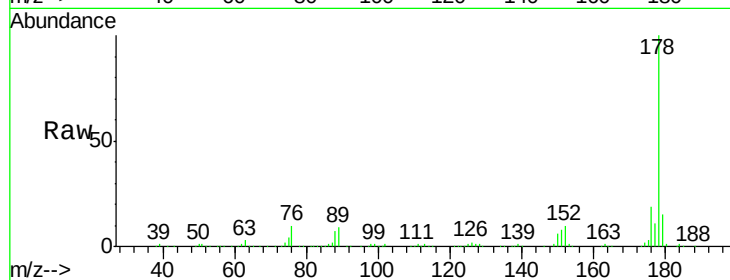
Tgt Ion:178 Resp: 266068

Ion Ratio Lower Upper

178 100

176 19.3 15.8 23.6

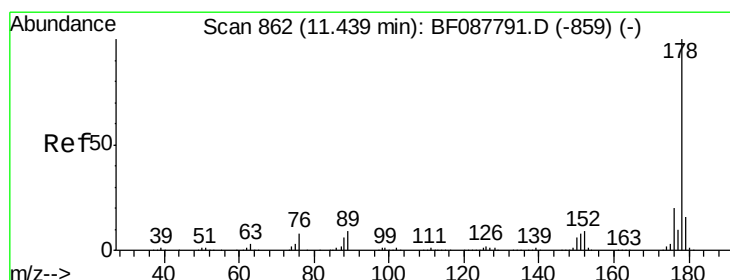
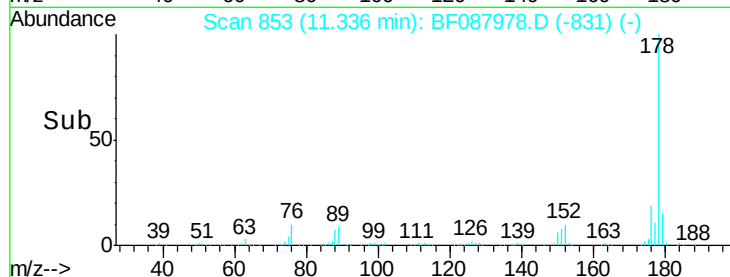
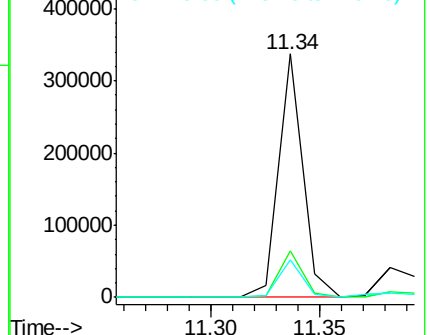
179 15.4 13.0 19.4



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: 2.43 ng

RT: 11.38 min Scan# 857

Delta R.T. -0.06 min

Lab File: BF087978.D

Acq: 13 Jun 2016 12:42

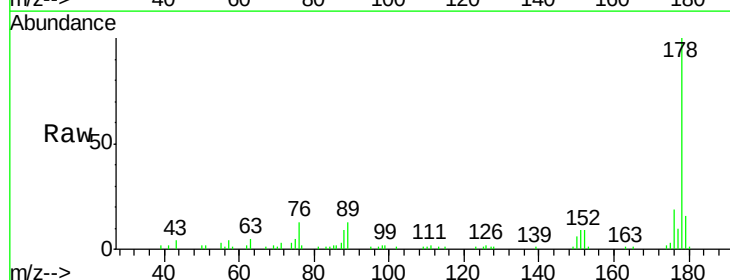
Tgt Ion:178 Resp: 53971

Ion Ratio Lower Upper

178 100

176 18.6 15.6 23.4

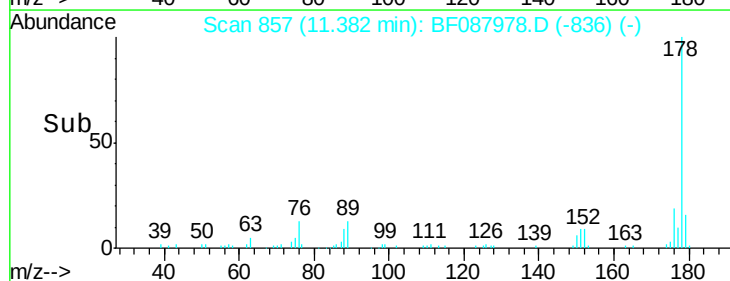
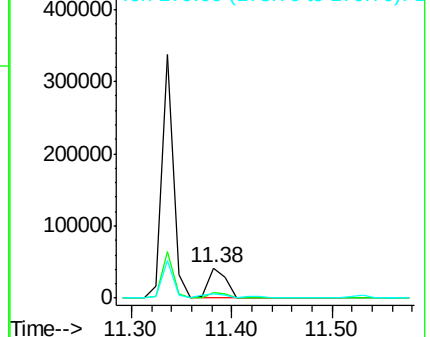
179 15.9 12.8 19.2

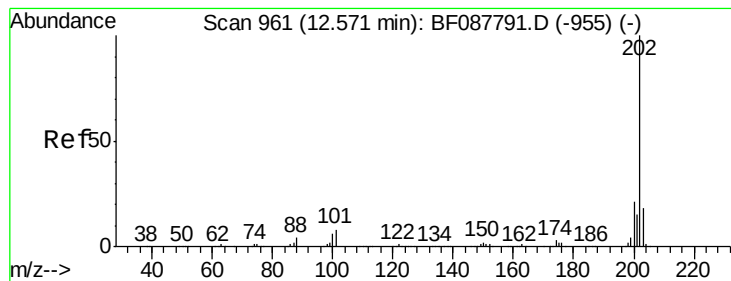


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 16.27 ng

RT: 12.53 min Scan# 957

Delta R.T. -0.05 min

Lab File: BF087978.D

Acq: 13 Jun 2016 12:42

Instrument :

BNA_F

ClientSampleId :

SB-09-COMP

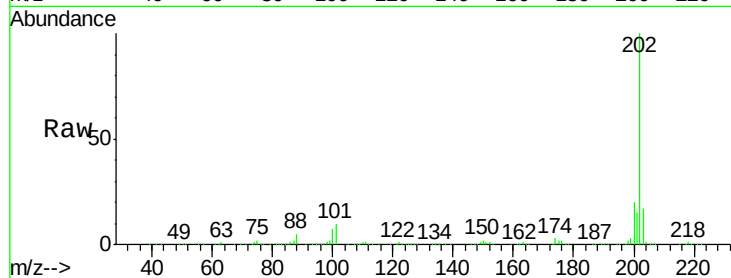
Tgt Ion:202 Resp: 378082

Ion Ratio Lower Upper

202 100

101 10.2 0.0 33.1

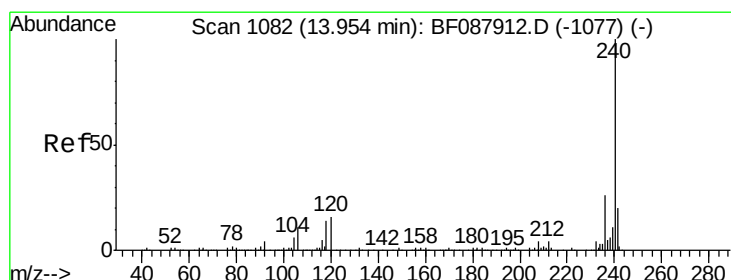
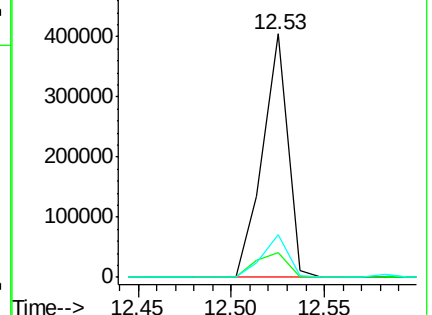
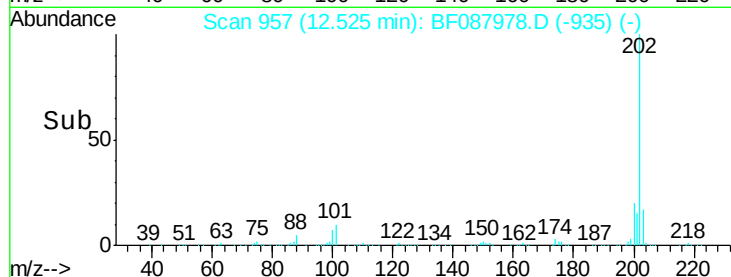
203 17.4 0.0 38.1



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: 13.94 min Scan# 1081

Delta R.T. -0.05 min

Lab File: BF087978.D

Acq: 13 Jun 2016 12:42

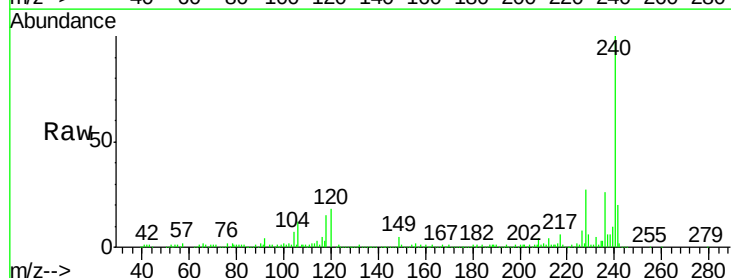
Tgt Ion:240 Resp: 269171

Ion Ratio Lower Upper

240 100

120 17.6 6.8 10.2#

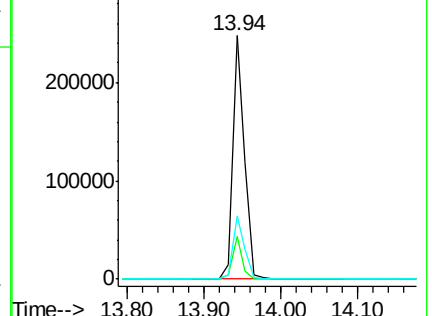
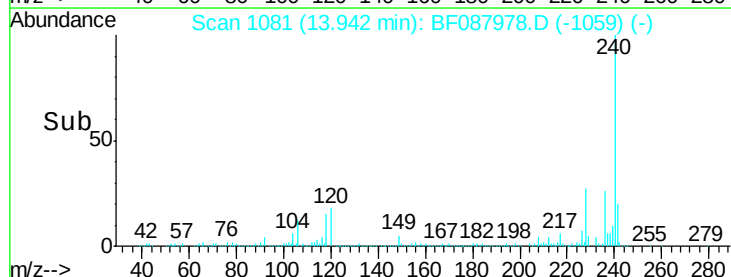
236 26.1 20.2 30.2

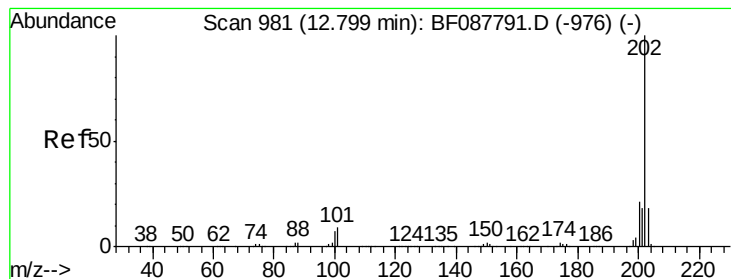


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 15.34 ng

RT: 12.75 min Scan# 977

Delta R.T. -0.05 min

Lab File: BF087978.D

Acq: 13 Jun 2016 12:42

Instrument :

BNA_F

ClientSampleId :

SB-09-COMP

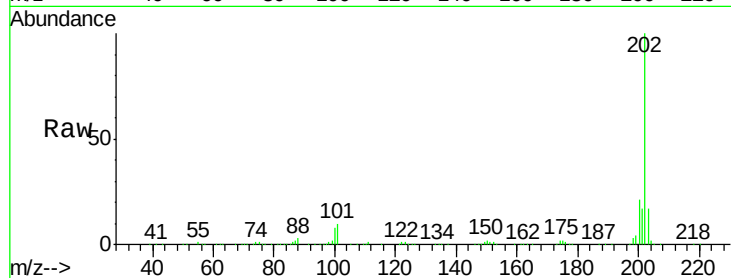
Tgt Ion: 202 Resp: 306376

Ion Ratio Lower Upper

202 100

200 21.0 17.4 26.2

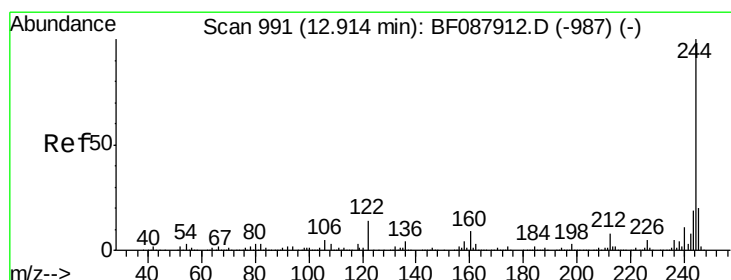
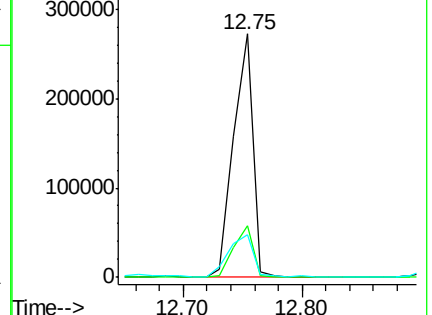
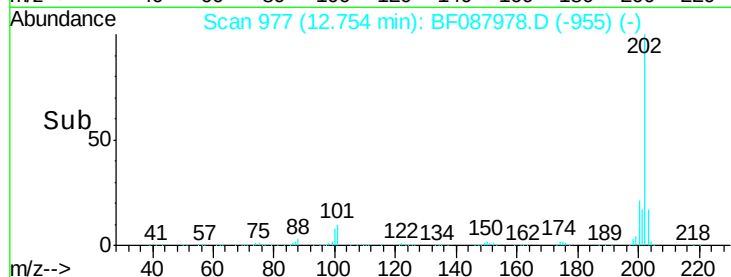
203 17.4 14.5 21.7



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: 59.05 ng

RT: 12.90 min Scan# 990

Delta R.T. -0.05 min

Lab File: BF087978.D

Acq: 13 Jun 2016 12:42

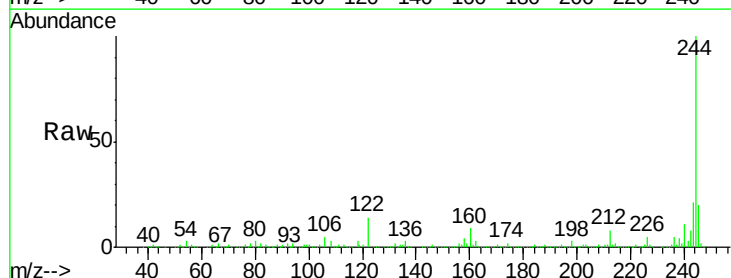
Tgt Ion: 244 Resp: 698502

Ion Ratio Lower Upper

244 100

212 7.6 6.0 9.0

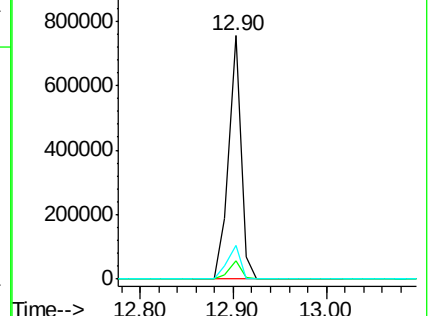
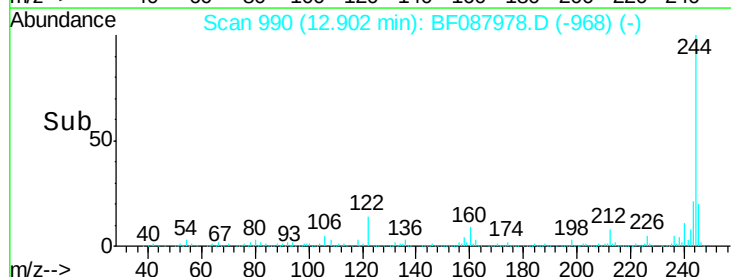
122 14.1 11.2 16.8

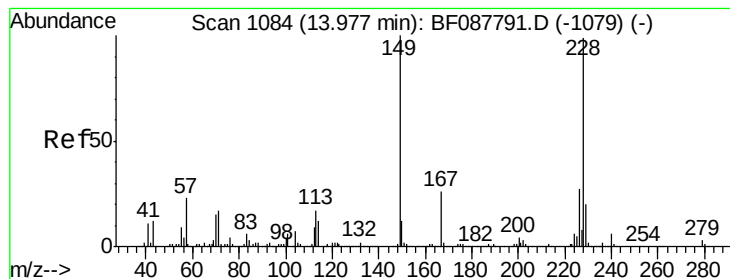


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 9.51 ng

RT: 13.93 min Scan# 1080

Delta R.T. -0.05 min

Lab File: BF087978.D

Acq: 13 Jun 2016 12:42

Instrument :

BNA_F

ClientSampleId :

SB-09-COMP

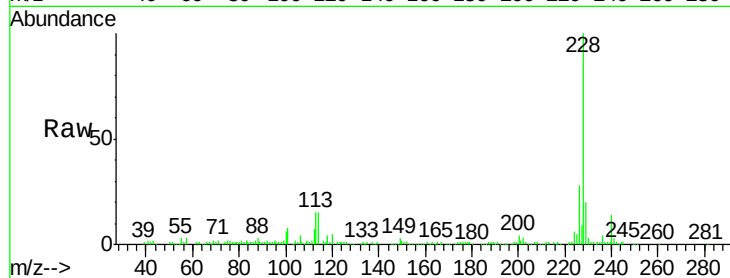
Tgt Ion:228 Resp: 145912

Ion Ratio Lower Upper

228 100

226 28.1 22.3 33.5

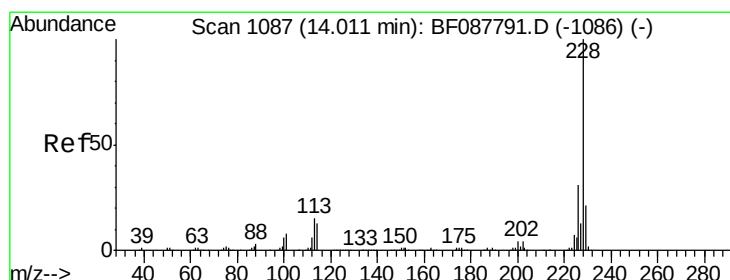
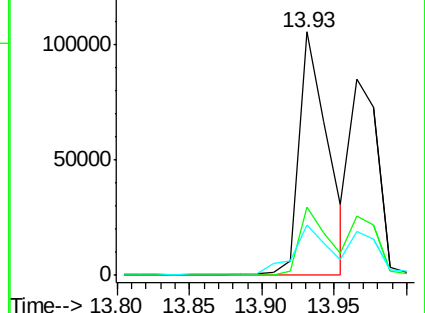
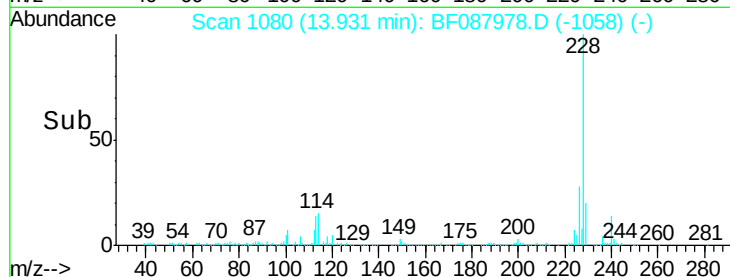
229 20.4 16.0 24.0



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



#82

Chrysene

Concen: 7.65 ng

RT: 13.97 min Scan# 1083

Delta R.T. -0.05 min

Lab File: BF087978.D

Acq: 13 Jun 2016 12:42

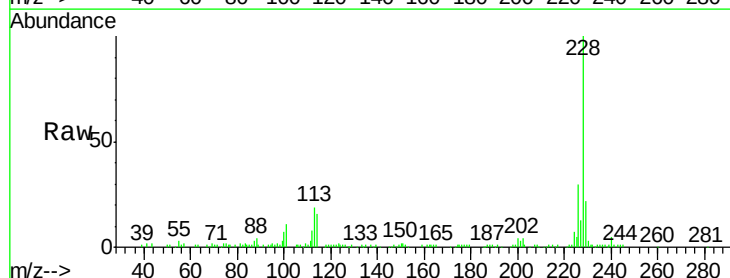
Tgt Ion:228 Resp: 110347

Ion Ratio Lower Upper

228 100

226 30.1 25.4 38.2

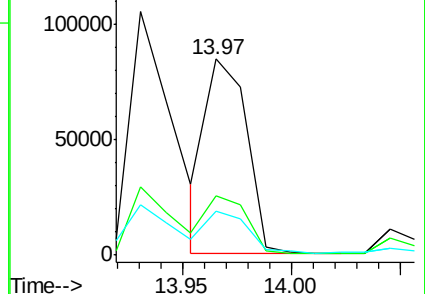
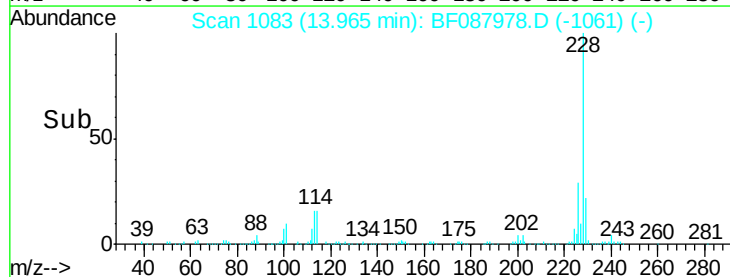
229 22.2 16.3 24.5

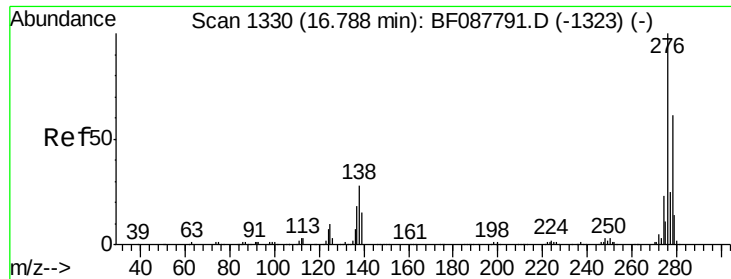


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

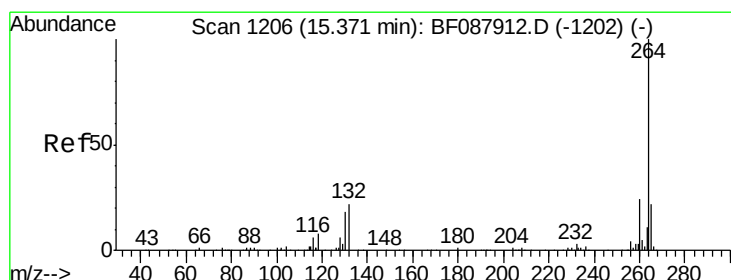
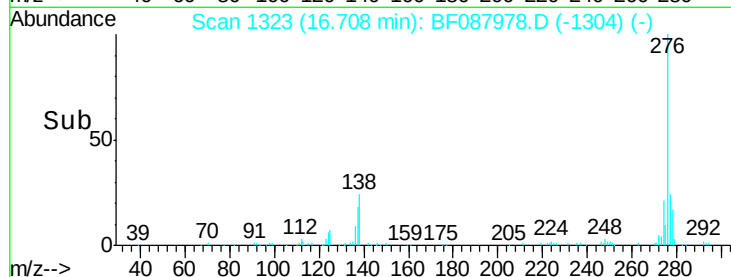
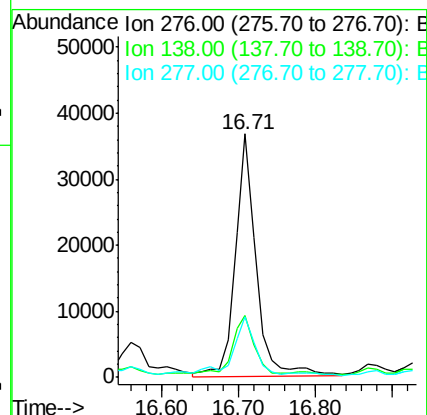
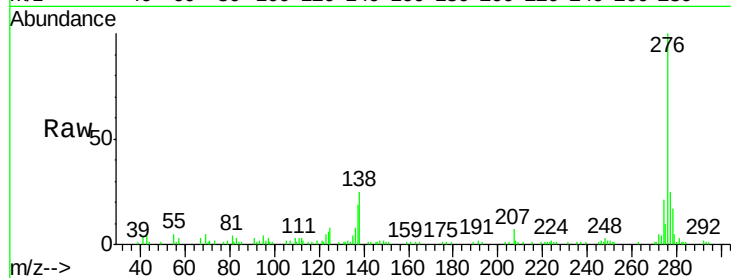




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 5.22 ng
 RT: 16.71 min Scan# 1323
 Delta R.T. -0.08 min
 Lab File: BF087978.D
 Acq: 13 Jun 2016 12:42

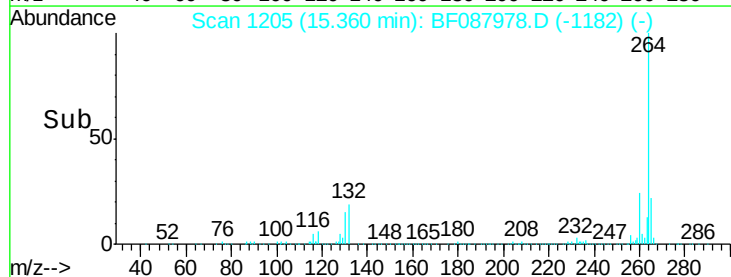
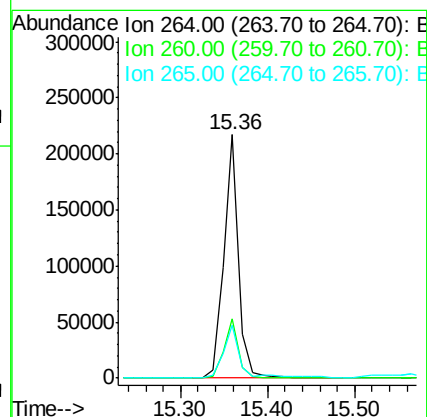
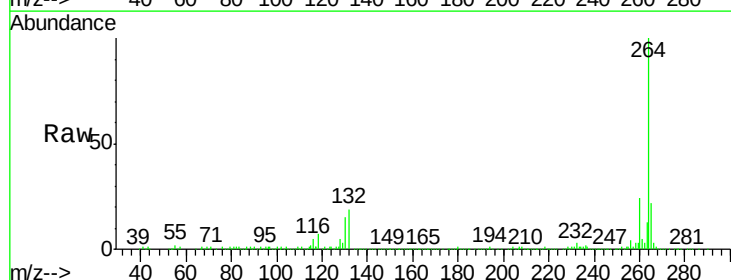
Instrument :
 BNA_F
 ClientSampleId :
 SB-09-COMP

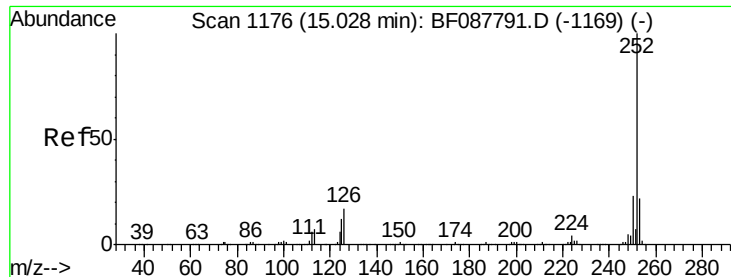
Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.3	0.0	0.0#
277	27.2	0.0	0.0#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.36 min Scan# 1205
 Delta R.T. -0.03 min
 Lab File: BF087978.D
 Acq: 13 Jun 2016 12:42

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	21.8	16.9	25.3

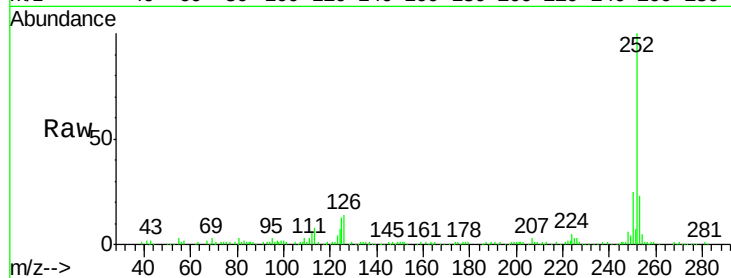




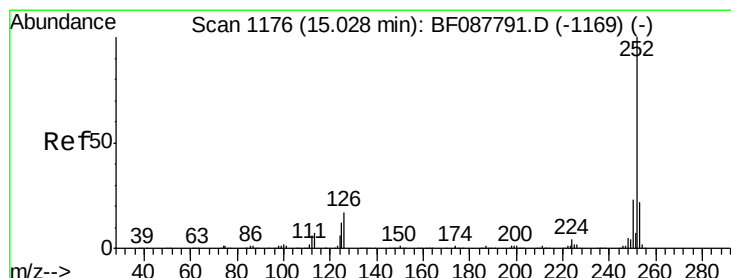
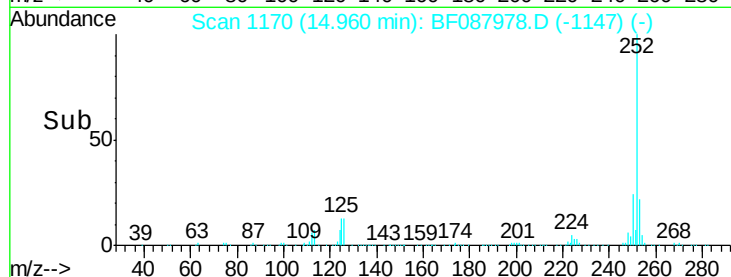
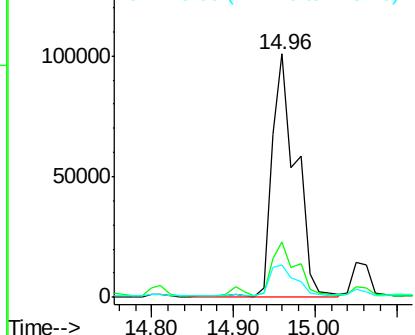
#87
Benzo(b)fluoranthene
Concen: 11.39 ng
RT: 14.96 min Scan# 1170
Delta R.T. -0.03 min
Lab File: BF087978.D
Acq: 13 Jun 2016 12:42

Instrument :
BNA_F
ClientSampleId :
SB-09-COMP

Tgt Ion:252 Resp: 204572
Ion Ratio Lower Upper
252 100
253 22.7 17.4 26.2
125 13.5 7.1 10.7#

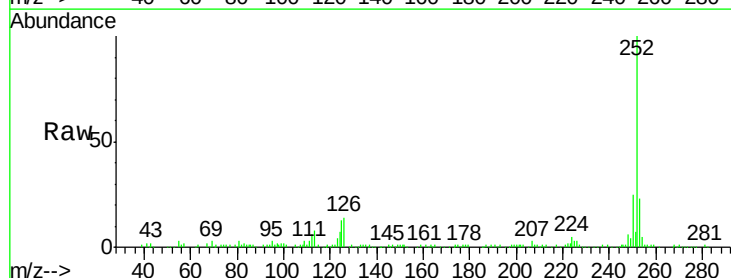


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

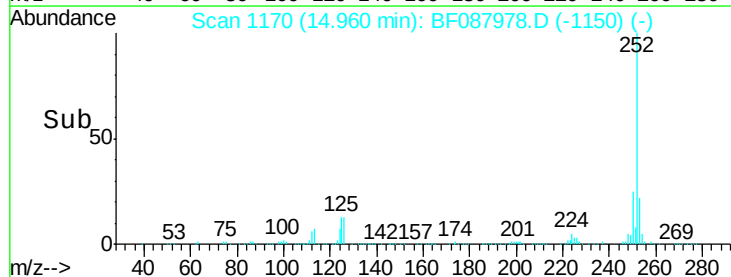
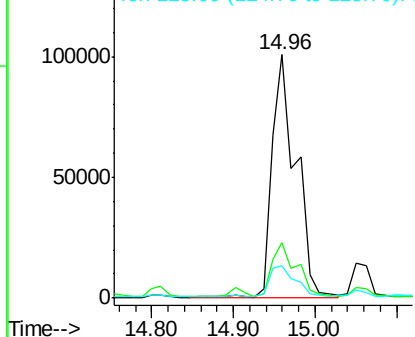


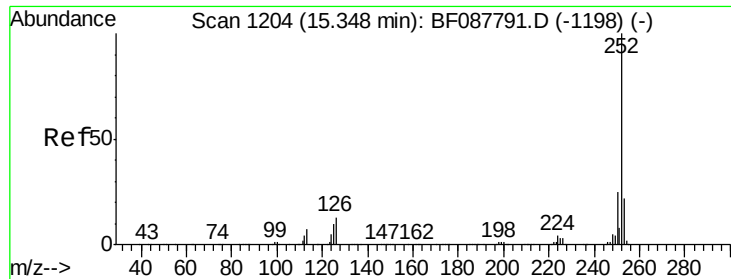
#88
Benzo(k)fluoranthene
Concen: 15.09 ng
RT: 14.96 min Scan# 1170
Delta R.T. -0.07 min
Lab File: BF087978.D
Acq: 13 Jun 2016 12:42

Tgt Ion:252 Resp: 204572
Ion Ratio Lower Upper
252 100
253 22.7 18.0 27.0
125 13.5 11.2 16.8



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





#89

Benzo(a)pyrene

Concen: 6.94 ng

RT: 15.29 min Scan# 1199

Delta R.T. -0.06 min

Lab File: BF087978.D

Acq: 13 Jun 2016 12:42

Instrument :

BNA_F

ClientSampleId :

SB-09-COMP

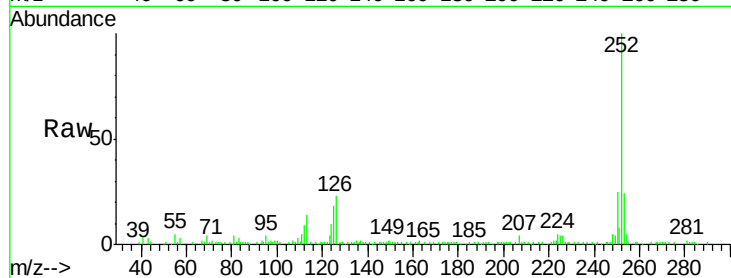
Tgt Ion: 252 Resp: 100910

Ion Ratio Lower Upper

252 100

253 23.6 17.9 26.9

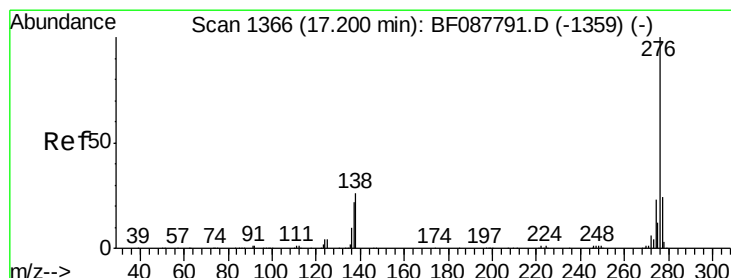
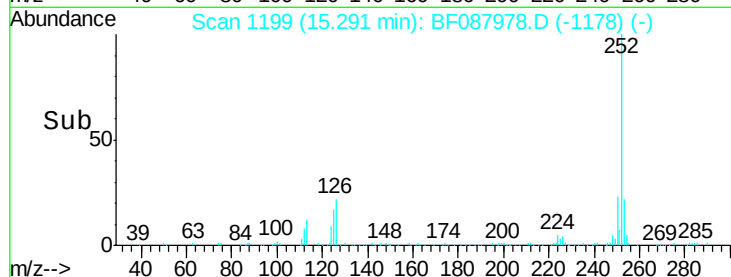
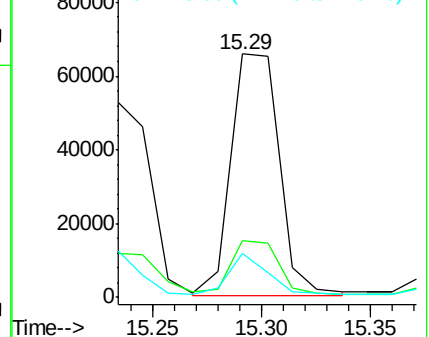
125 18.3 12.5 18.7



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



#91

Benzo(g,h,i)perylene

Concen: 4.59 ng

RT: 17.12 min Scan# 1359

Delta R.T. -0.08 min

Lab File: BF087978.D

Acq: 13 Jun 2016 12:42

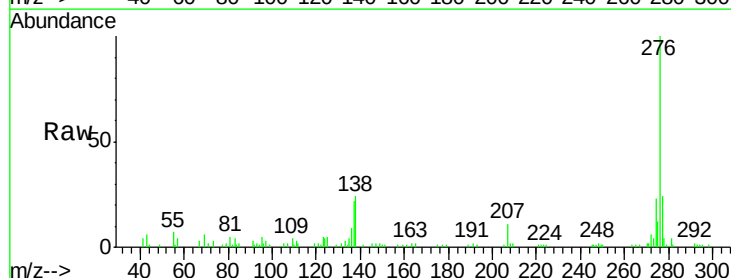
Tgt Ion: 276 Resp: 63684

Ion Ratio Lower Upper

276 100

277 24.1 18.9 28.3

138 23.8 21.4 32.2



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

