

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062316\
 Data File : BF088300.D
 Acq On : 23 Jun 2016 20:45
 Operator : UM/SJ
 Sample : H3467-03RE
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HF-4-WC-3RE

Quant Time: Jun 24 01:36:49 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 22 14:55:14 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.59	152	109331	20.00	ng	-0.01
21) Naphthalene-d8	7.88	136	434601	20.00	ng	-0.01
38) Acenaphthene-d10	9.63	164	197533	20.00	ng	-0.01
63) Phenanthrene-d10	11.11	188	376053	20.00	ng	-0.01
75) Chrysene-d12	13.74	240	252427	20.00	ng	-0.01
86) Perylene-d12	15.09	264	218989	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.20	112	642460	100.46	ng	0.02
7) Phenol-d6	6.27	99	859029	110.83	ng	0.01
23) Nitrobenzene-d5	7.18	82	516459	69.39	ng	0.00
41) 2,4,6-Tribromophenol	10.42	330	175243	84.02	ng	-0.01
44) 2-Fluorobiphenyl	8.96	172	901396	70.76	ng	-0.01
78) Terphenyl-d14	12.69	244	792181	71.41	ng	-0.01

Target Compounds				Qvalue		
10) Phenol	6.28	94	3388	Below Cal	#	1
19) n-Nitroso-di-n-propylamine	7.16	70	66046	13.32	ng	# 71
25) Isophorone	7.18	82	508796	36.91	ng	# 65
45) 1,1'-Biphenyl	9.07	154	472	Below Cal		86
49) Dimethylphthalate	9.36	163	192464	13.45	ng	99
56) 2,4-Dinitrotoluene	9.63	165	25321	6.01	ng	# 37
57) Fluorene	10.18	166	16401	Below Cal		98
64) 4,6-Dinitro-2-methylphenol	10.42	198	227	2.25	ng	# 1
66) 4-Bromophenyl-phenylether	10.42	248	11763	2.92	ng	# 1
70) Phenanthrene	11.13	178	242356	12.28	ng	97
71) Anthracene	11.19	178	68876	3.46	ng	99
72) Carbazole	11.35	167	48732	2.62	ng	99
74) Fluoranthene	12.31	202	395246	18.98	ng	98
77) Pyrene	12.54	202	321657	17.17	ng	99
80) Benzo(a)anthracene	13.73	228	180444	12.54	ng	99
82) Chrysene	13.76	228	105185	7.77	ng	97
85) Indeno(1,2,3-cd)pyrene	16.35	276	52037	4.14	ng	# 100
87) Benzo(b)fluoranthene	14.73	252	182550	11.96	ng	# 96
88) Benzo(k)fluoranthene	14.73	252	182550	15.85	ng	99
89) Benzo(a)pyrene	15.04	252	92835	7.52	ng	97
91) Benzo(g,h,i)perylene	16.73	276	47684	4.04	ng	98

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.59 min Scan# 438

Delta R.T. -0.01 min

Lab File: BF088300.D

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BNA_F

ClientSampleId :

HF-4-WC-3RE

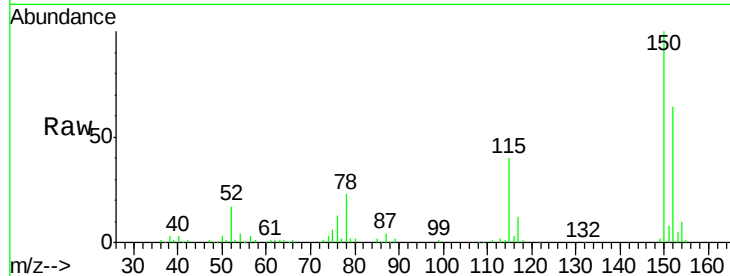
Tgt Ion:152 Resp: 109331

Ion Ratio Lower Upper

152 100

150 156.9 123.8 185.6

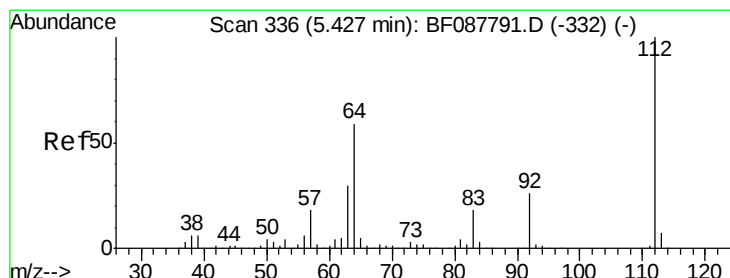
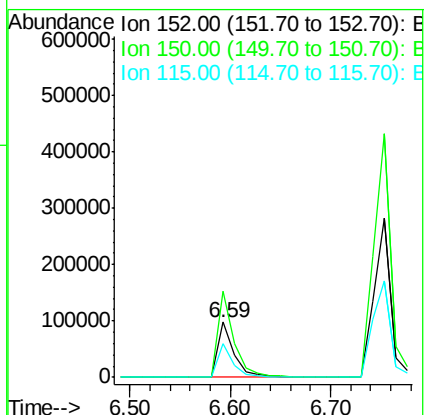
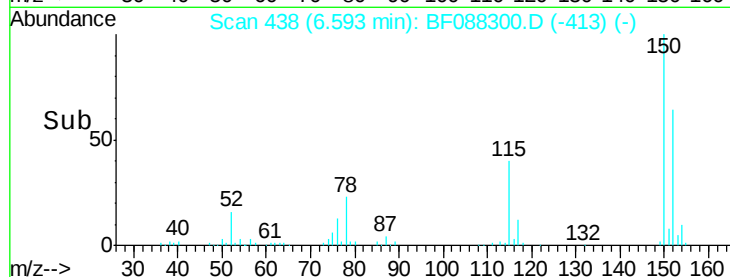
115 62.3 39.6 59.4#



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: 100.46 ng

RT: 5.20 min Scan# 316

Delta R.T. 0.02 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

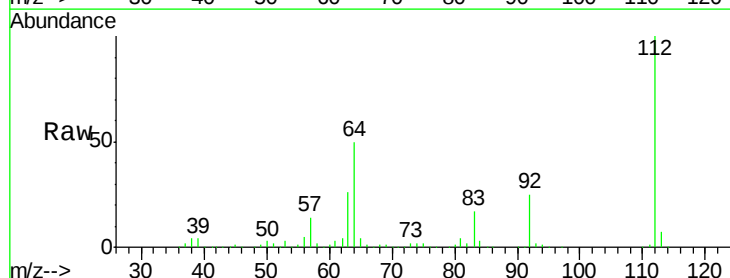
Tgt Ion:112 Resp: 642460

Ion Ratio Lower Upper

112 100

64 50.0 42.2 63.2

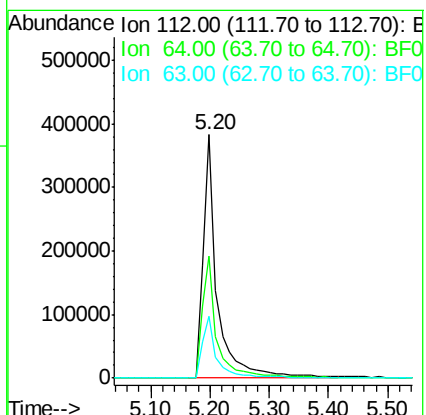
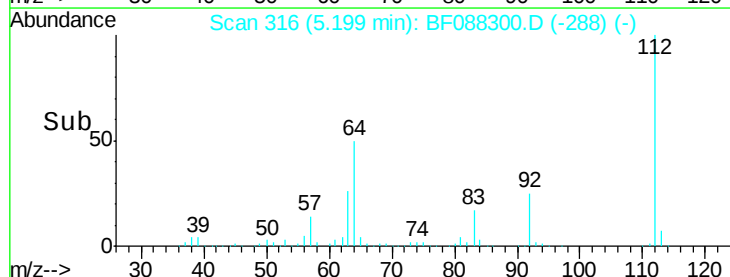
63 25.6 21.8 32.8



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: 110.83 ng

RT: 6.27 min Scan# 410

Delta R.T. 0.01 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

Instrument :

BNA_F

ClientSampleId :

HF-4-WC-3RE

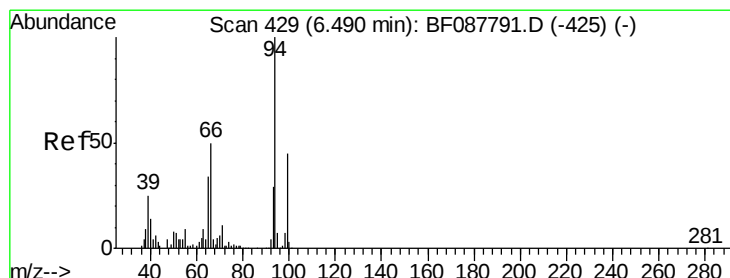
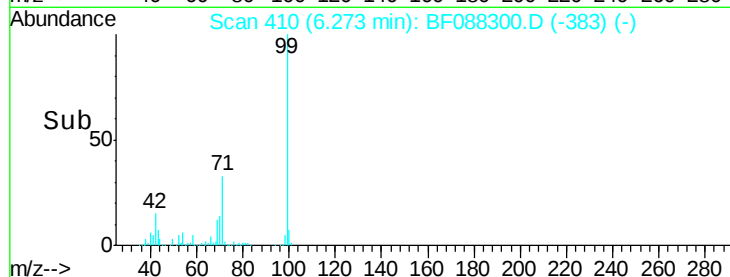
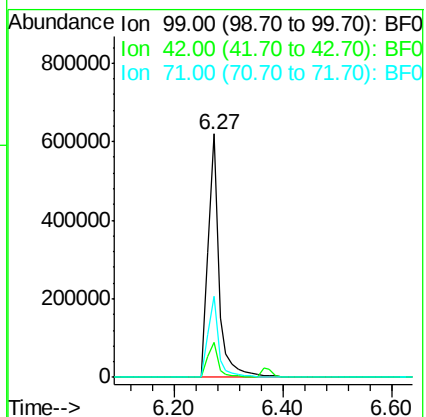
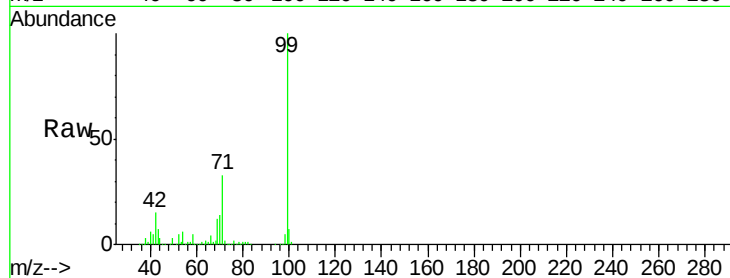
Tgt Ion: 99 Resp: 859029

Ion Ratio Lower Upper

99 100

42 14.5 12.2 18.2

71 33.4 23.4 35.0



#10

Phenol

Concen: Below Cal

RT: 6.28 min Scan# 411

Delta R.T. 0.01 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

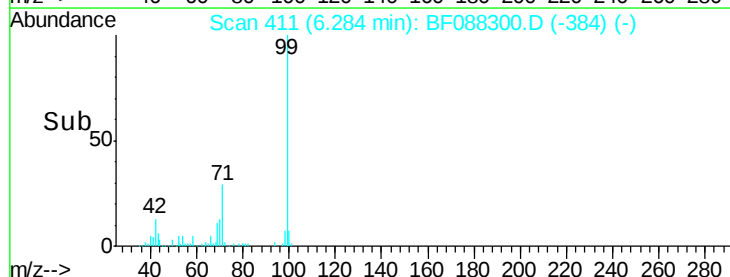
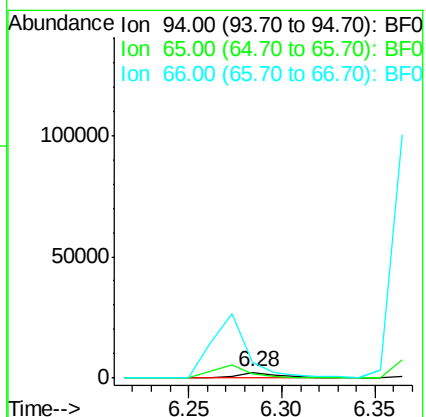
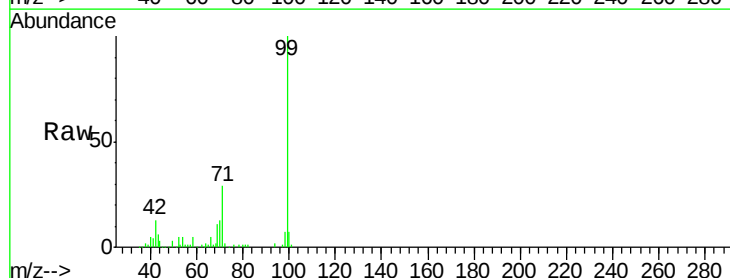
Tgt Ion: 94 Resp: 3388

Ion Ratio Lower Upper

94 100

65 69.9 5.9 45.9#

66 276.0 14.0 54.0#

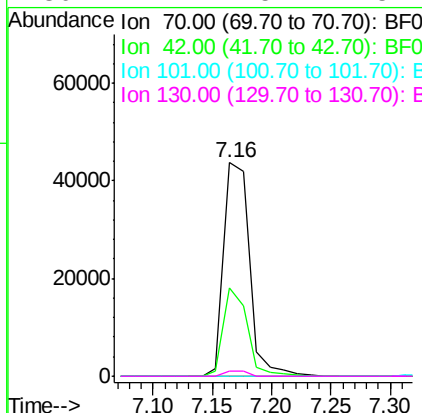
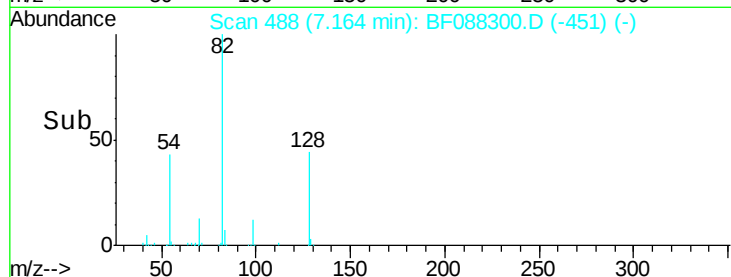
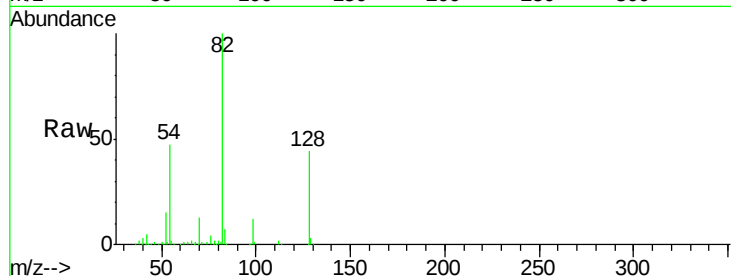




#19
n-Nitroso-di-n-propylamine
Concen: 13.32 ng
RT: 7.16 min Scan# 488
Delta R.T. 0.13 min
Lab File: BF088300.D
Acq: 23 Jun 2016 20:45

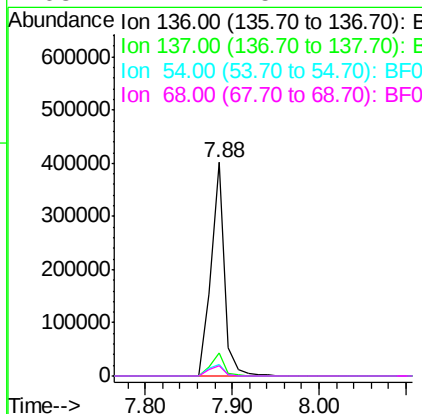
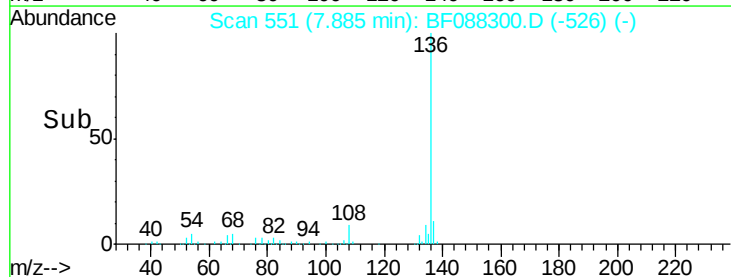
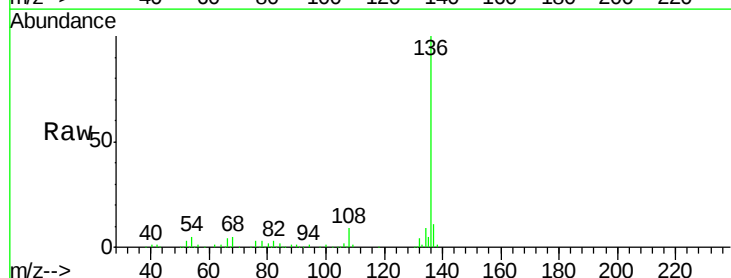
Instrument :
BNA_F
ClientSampleId :
HF-4-WC-3RE

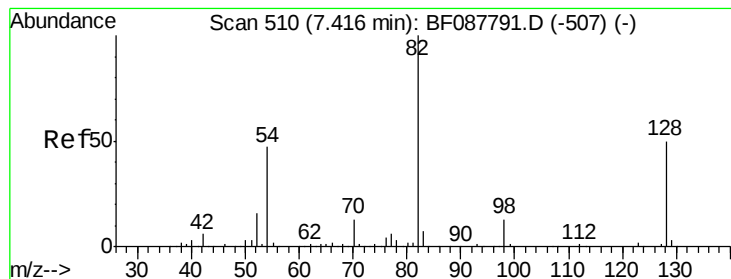
Tgt Ion: 70 Resp: 66046
Ion Ratio Lower Upper
70 100
42 41.6 49.6 74.4#
101 0.0 7.1 10.7#
130 2.2 15.4 23.2#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.88 min Scan# 551
Delta R.T. -0.01 min
Lab File: BF088300.D
Acq: 23 Jun 2016 20:45

Tgt Ion: 136 Resp: 434601
Ion Ratio Lower Upper
136 100
137 10.9 9.1 13.7
54 5.3 6.6 10.0#
68 4.7 5.1 7.7#





#23

Nitrobenzene-d5

Concen: 69.39 ng

RT: 7.18 min Scan# 489

Delta R.T. 0.00 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

Instrument :

BNA_F

ClientSampleId :

HF-4-WC-3RE

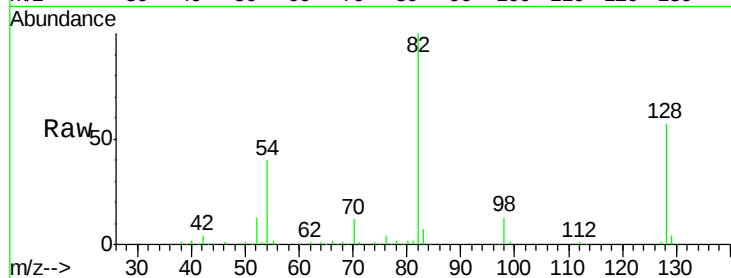
Tgt Ion: 82 Resp: 516459

Ion Ratio Lower Upper

82 100

128 57.3 35.9 53.9#

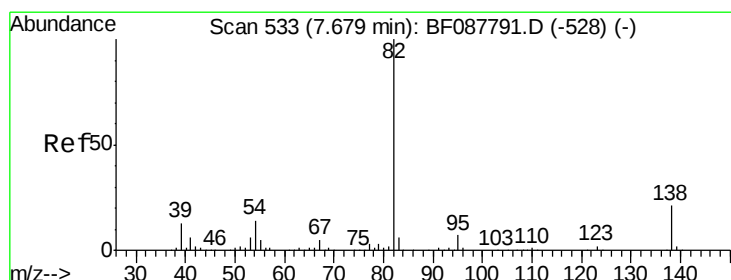
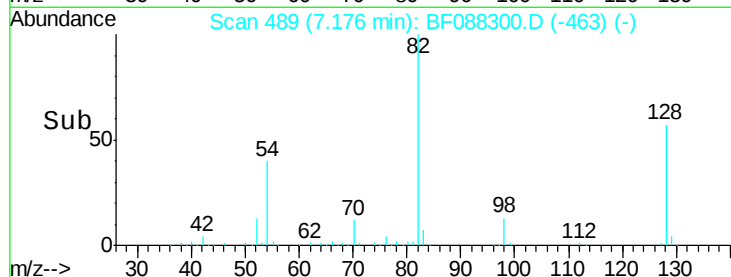
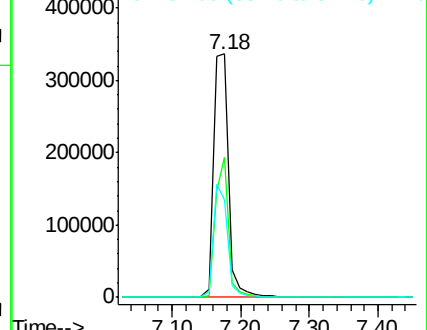
54 40.0 40.9 61.3#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#25

Isophorone

Concen: 36.91 ng

RT: 7.18 min Scan# 489

Delta R.T. -0.26 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

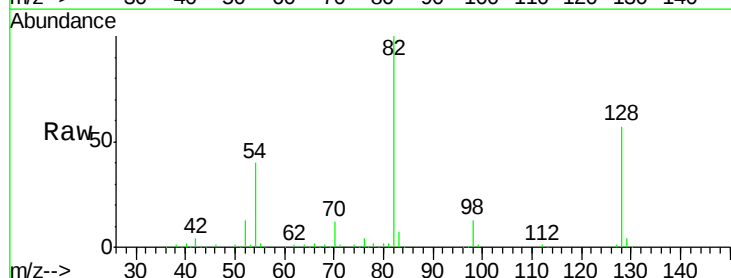
Tgt Ion: 82 Resp: 508796

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

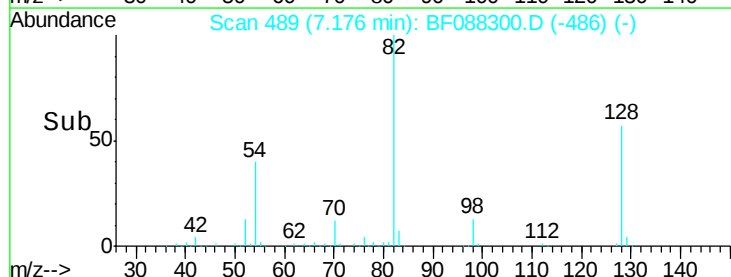
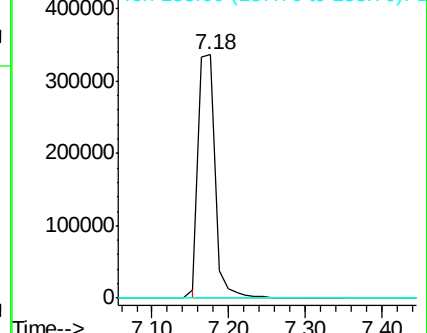
138 0.0 14.6 21.8#

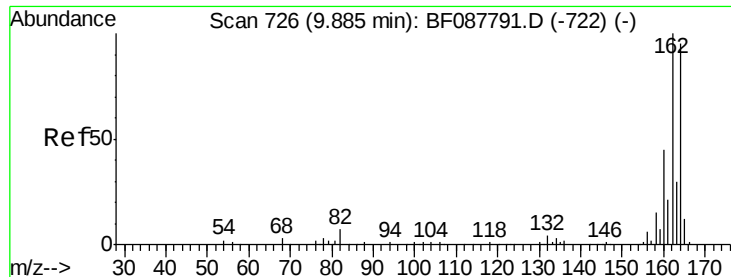


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.63 min Scan# 704

Delta R.T. -0.01 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

Instrument :

BNA_F

ClientSampleId :

HF-4-WC-3RE

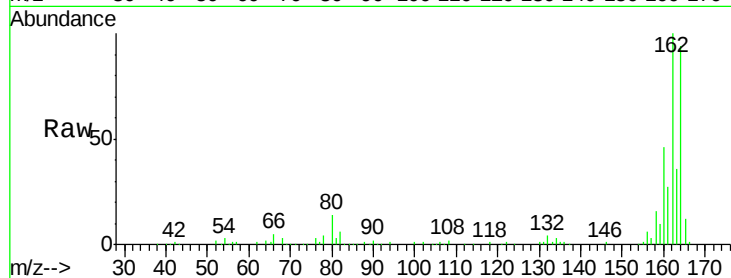
Tgt Ion:164 Resp: 197533

Ion Ratio Lower Upper

164 100

162 106.3 85.4 128.2

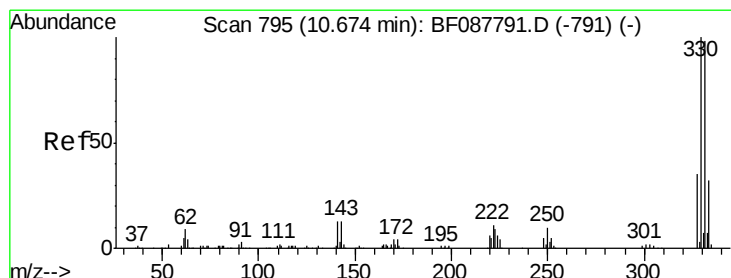
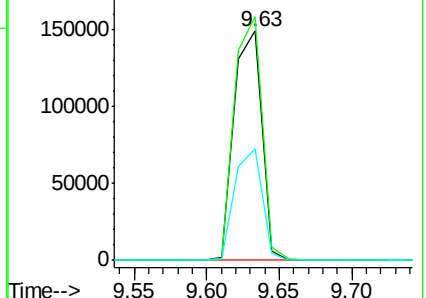
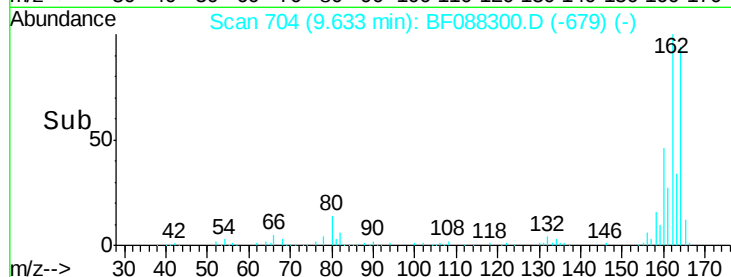
160 48.9 39.5 59.3



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: 84.02 ng

RT: 10.42 min Scan# 773

Delta R.T. -0.01 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

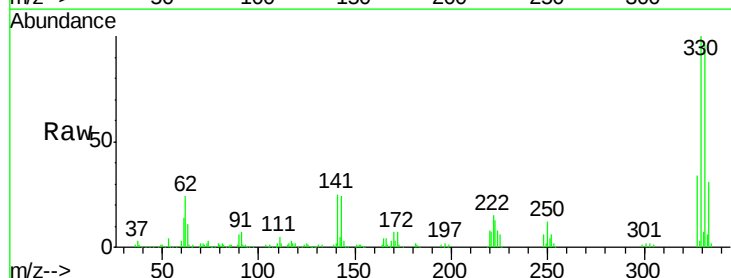
Tgt Ion:330 Resp: 175243

Ion Ratio Lower Upper

330 100

332 96.5 0.0 0.0#

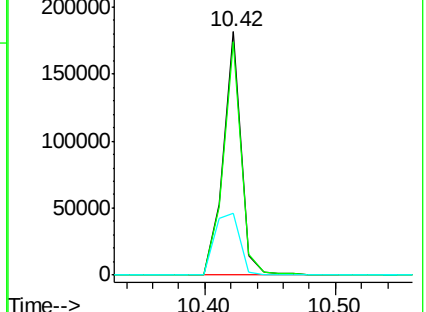
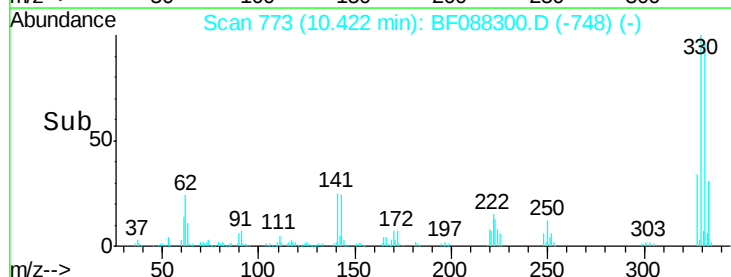
141 36.6 0.0 0.0#



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

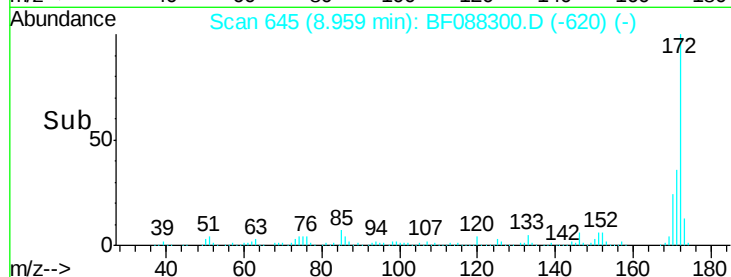
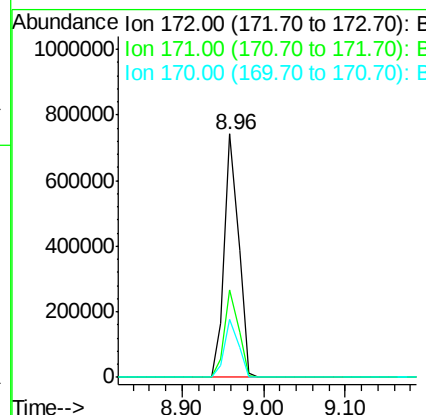
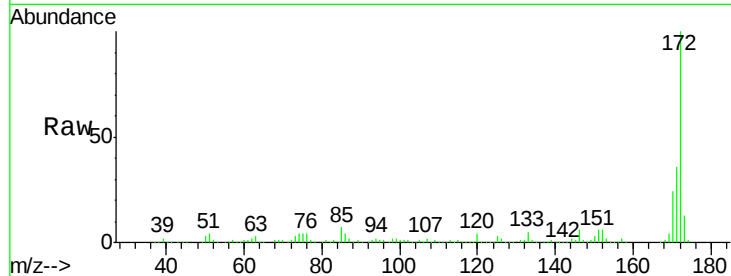




#44
 2-Fluorobiphenyl
 Concen: 70.76 ng
 RT: 8.96 min Scan# 645
 Delta R.T. -0.01 min
 Lab File: BF088300.D
 Acq: 23 Jun 2016 20:45

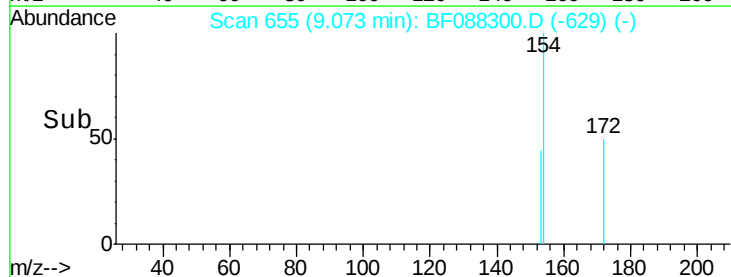
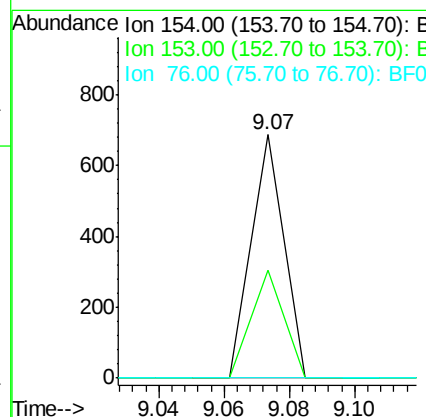
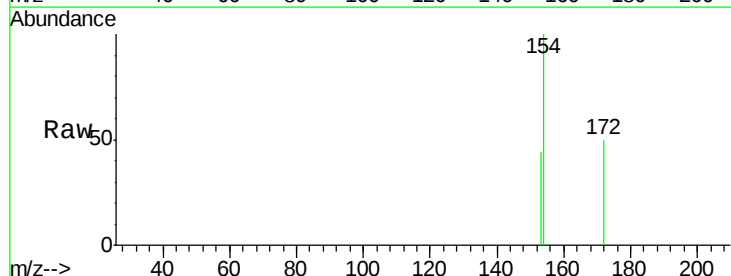
Instrument :
 BNA_F
 ClientSampleId :
 HF-4-WC-3RE

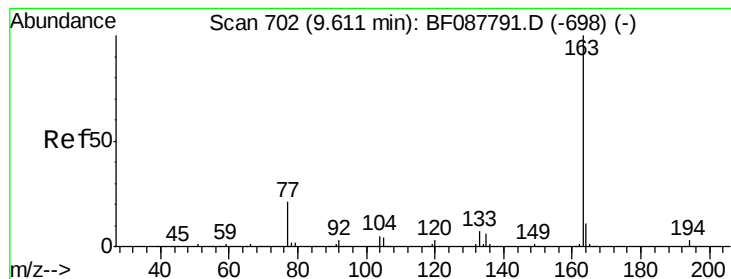
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.6	43.0
170	24.1	19.2	28.8



#45
 1,1'-Biphenyl
 Concen: Below Cal
 RT: 9.07 min Scan# 655
 Delta R.T. 0.00 min
 Lab File: BF088300.D
 Acq: 23 Jun 2016 20:45

Tgt Ion	Ratio	Lower	Upper
154	100		
153	44.0	20.6	60.6
76	0.0	0.0	35.1





#49

Dimethylphthalate

Concen: 13.45 ng

RT: 9.36 min Scan# 680

Delta R.T. -0.02 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

Instrument :

BNA_F

ClientSampleId :

HF-4-WC-3RE

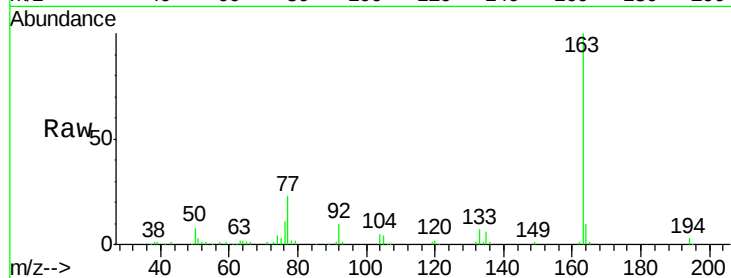
Tgt Ion:163 Resp: 192464

Ion Ratio Lower Upper

163 100

194 2.9 2.8 4.2

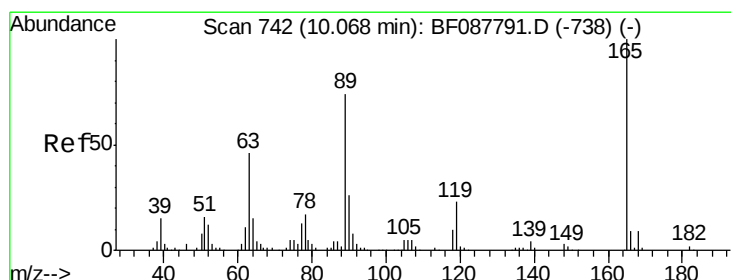
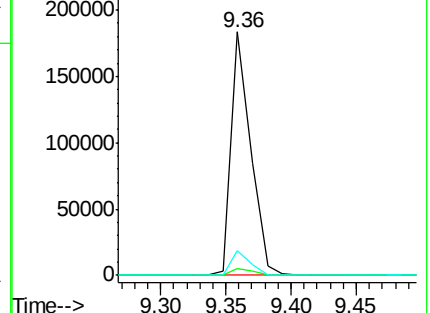
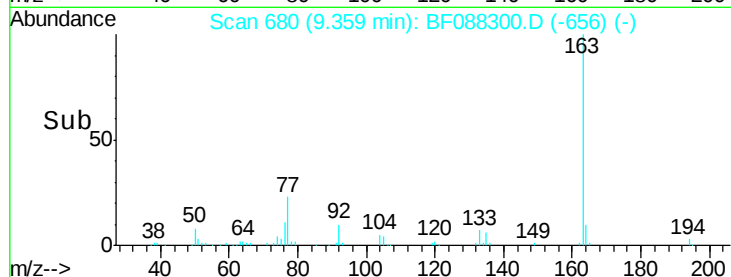
164 10.3 8.3 12.5



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: 6.01 ng

RT: 9.63 min Scan# 704

Delta R.T. -0.22 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

Tgt Ion:165 Resp: 25321

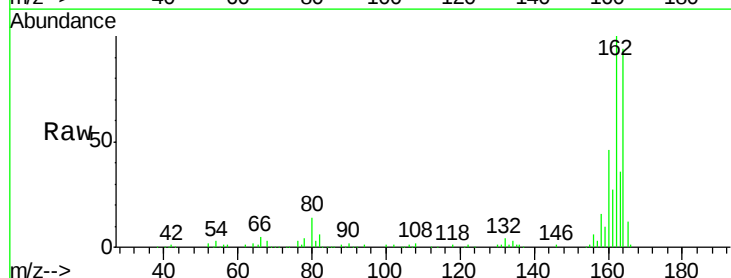
Ion Ratio Lower Upper

165 100

63 0.0 22.0 33.0#

89 1.7 41.1 61.7#

182 0.0 2.0 3.0#

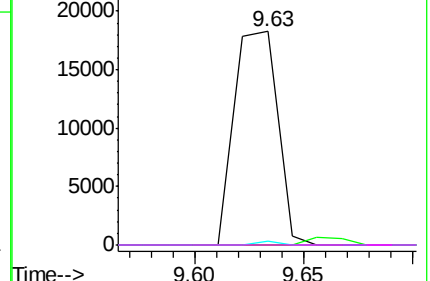
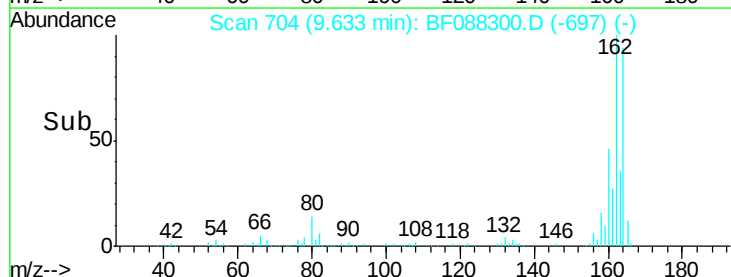


Abundance Ion 165.00 (164.70 to 165.70): E

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

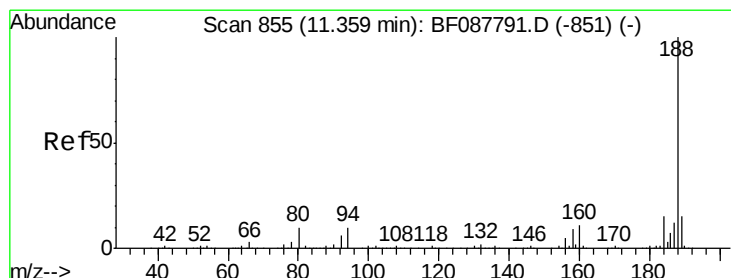
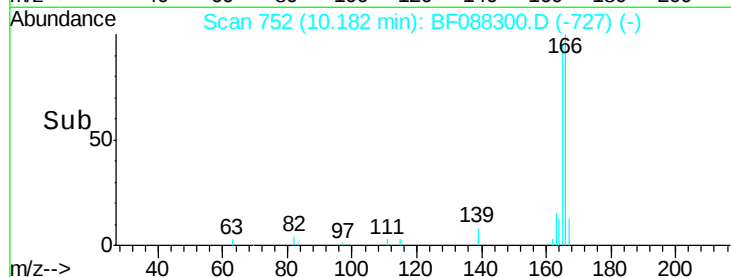
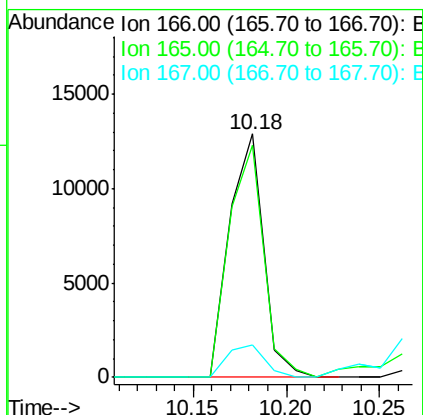
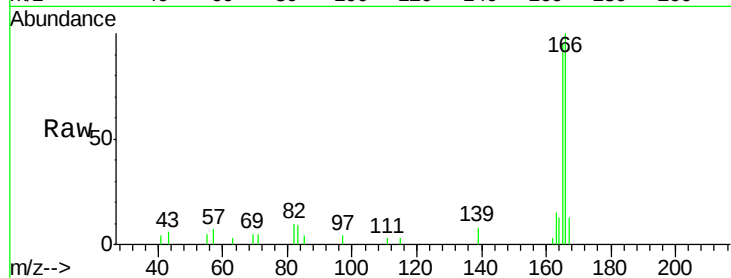




#57
 Fluorene
 Concen: Below Cal
 RT: 10.18 min Scan# 752
 Delta R.T. -0.01 min
 Lab File: BF088300.D
 Acq: 23 Jun 2016 20:45

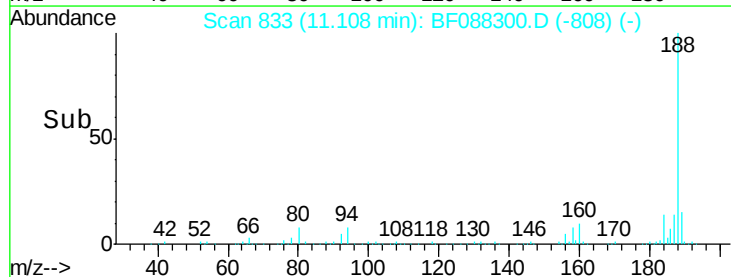
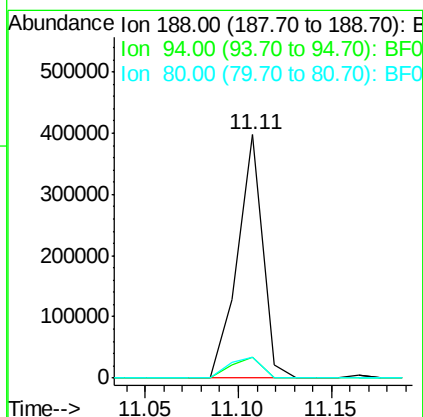
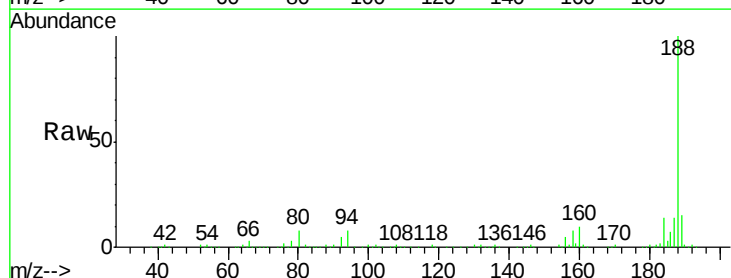
Instrument :
 BNA_F
 ClientSampleId :
 HF-4-WC-3RE

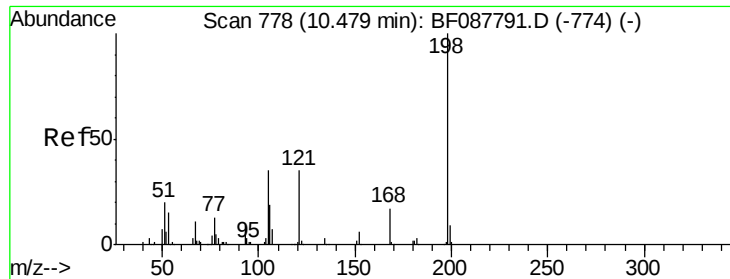
Tgt Ion:166 Resp: 16401
 Ion Ratio Lower Upper
 166 100
 165 95.3 77.8 116.8
 167 13.3 11.2 16.8



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.11 min Scan# 833
 Delta R.T. -0.01 min
 Lab File: BF088300.D
 Acq: 23 Jun 2016 20:45

Tgt Ion:188 Resp: 376053
 Ion Ratio Lower Upper
 188 100
 94 8.3 9.0 13.6#
 80 8.4 10.0 15.0#





#64

4,6-Dinitro-2-methylphenol

Concen: 2.25 ng

RT: 10.42 min Scan# 773

Delta R.T. 0.16 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

Instrument :

BNA_F

ClientSampleId :

HF-4-WC-3RE

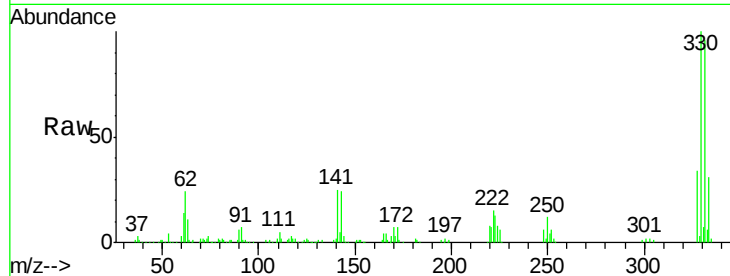
Tgt Ion:198 Resp: 227

Ion Ratio Lower Upper

198 100

51 145.3 39.6 79.6#

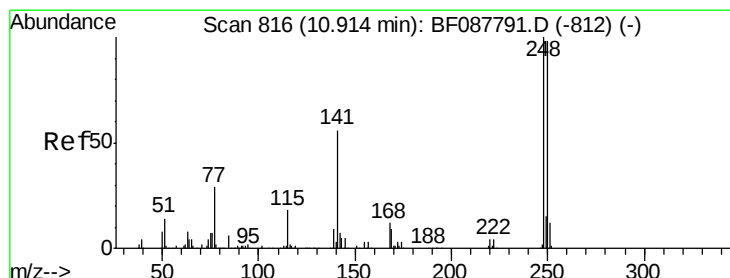
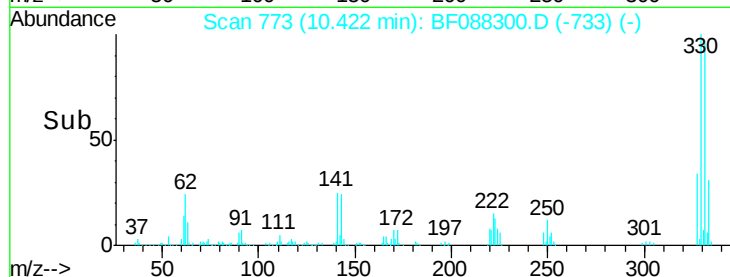
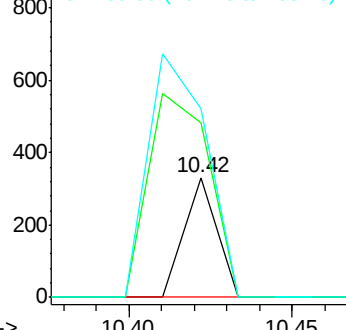
105 158.0 36.6 76.6#



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: 2.92 ng

RT: 10.42 min Scan# 773

Delta R.T. -0.25 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

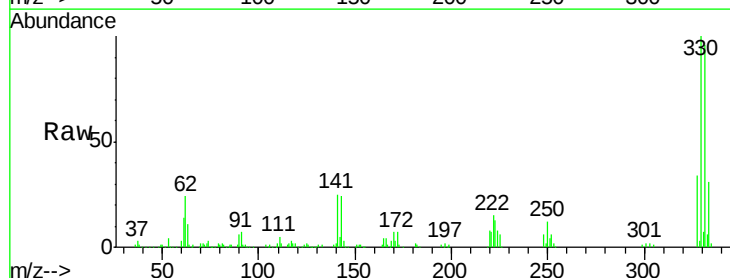
Tgt Ion:248 Resp: 11763

Ion Ratio Lower Upper

248 100

250 194.7 77.1 115.7#

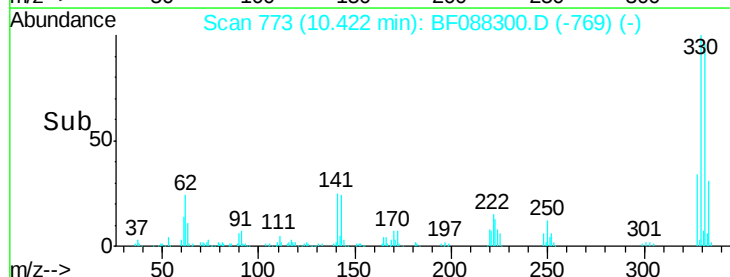
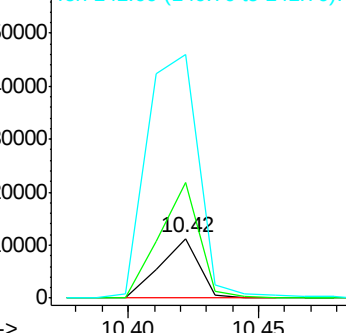
141 410.2 50.6 76.0#

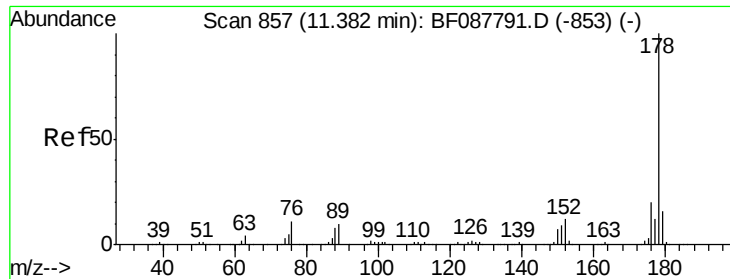


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

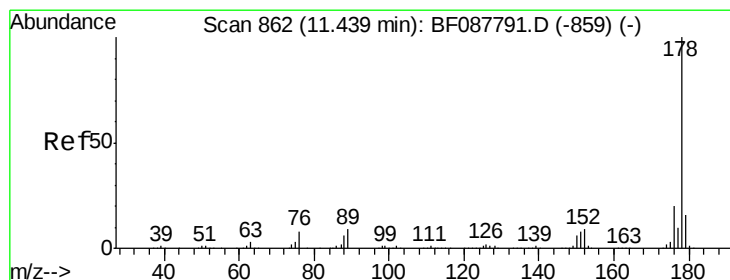
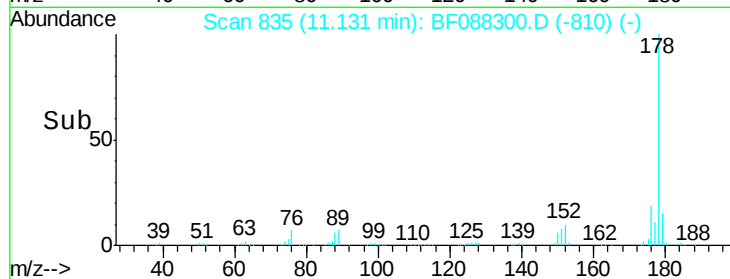
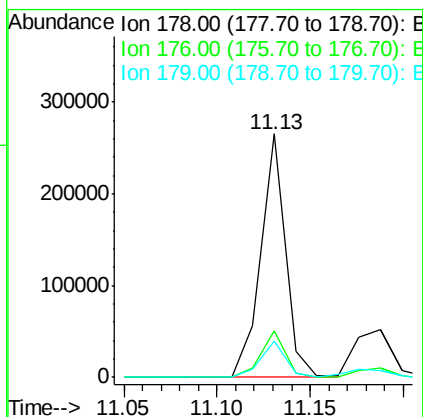
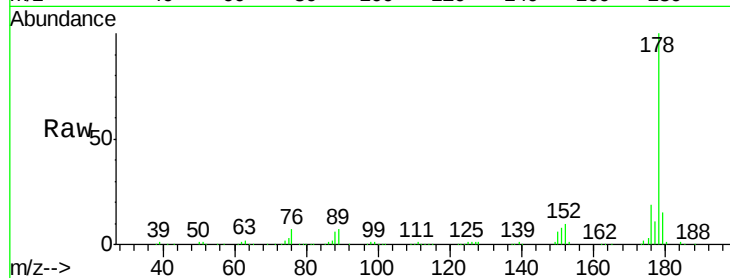




#70
Phenanthrene
Concen: 12.28 ng
RT: 11.13 min Scan# 835
Delta R.T. -0.01 min
Lab File: BF088300.D
Acq: 23 Jun 2016 20:45

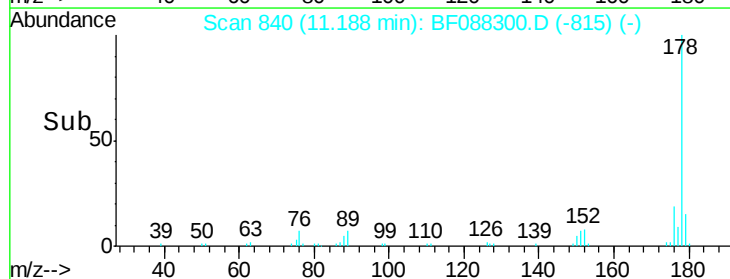
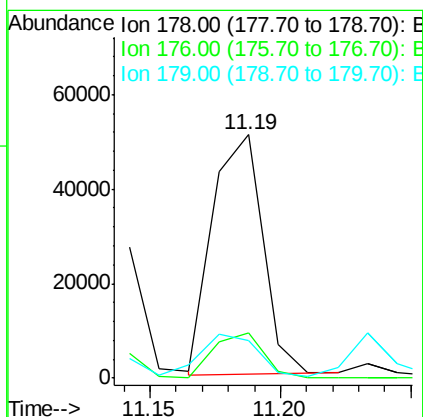
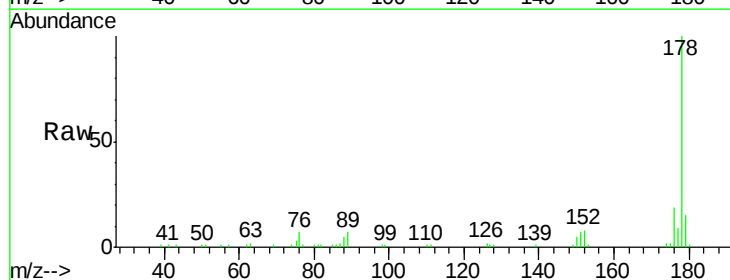
Instrument :
BNA_F
ClientSampleId :
HF-4-WC-3RE

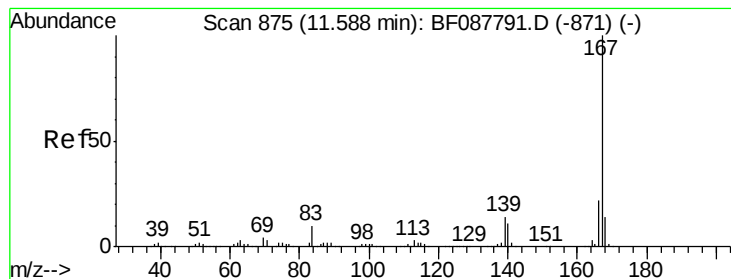
Tgt Ion:178 Resp: 242356
Ion Ratio Lower Upper
178 100
176 18.8 15.8 23.6
179 14.8 13.0 19.4



#71
Anthracene
Concen: 3.46 ng
RT: 11.19 min Scan# 840
Delta R.T. -0.01 min
Lab File: BF088300.D
Acq: 23 Jun 2016 20:45

Tgt Ion:178 Resp: 68876
Ion Ratio Lower Upper
178 100
176 18.7 15.6 23.4
179 15.5 12.8 19.2





#72

Carbazole

Concen: 2.62 ng

RT: 11.35 min Scan# 854

Delta R.T. -0.01 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

Instrument :

BNA_F

ClientSampleId :

HF-4-WC-3RE

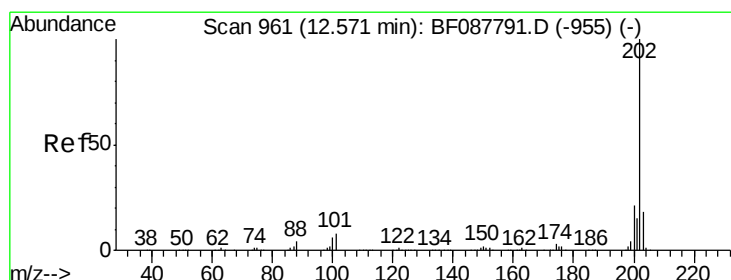
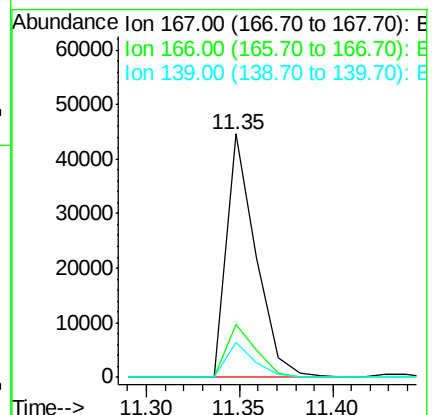
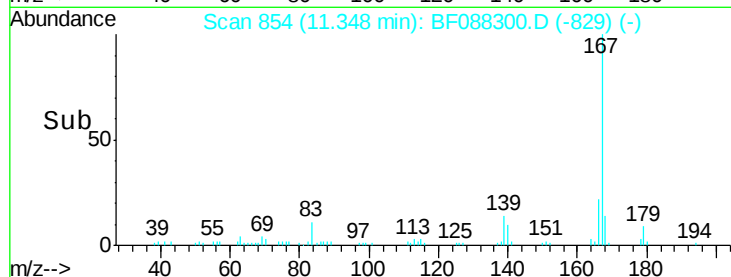
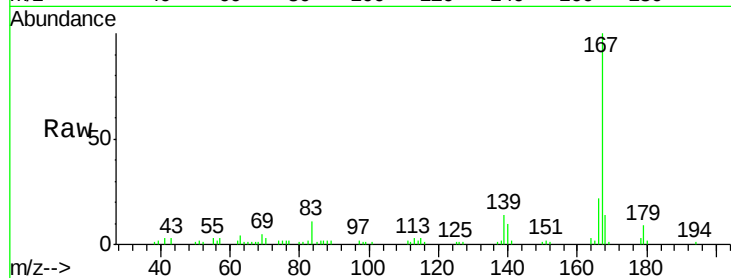
Tgt Ion:167 Resp: 48732

Ion Ratio Lower Upper

167 100

166 21.5 17.8 26.6

139 14.3 11.2 16.8



#74

Fluoranthene

Concen: 18.98 ng

RT: 12.31 min Scan# 938

Delta R.T. -0.01 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

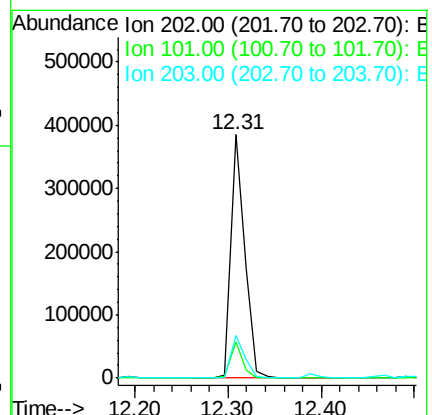
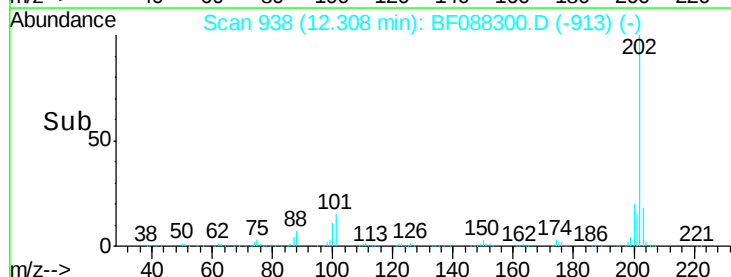
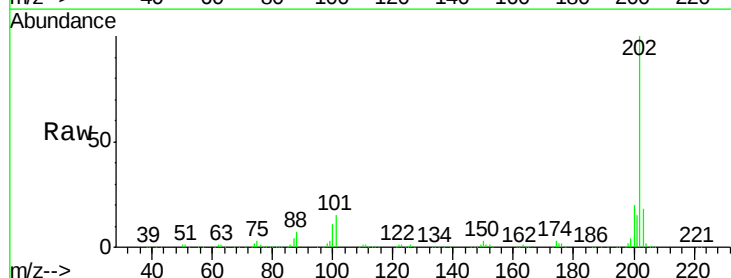
Tgt Ion:202 Resp: 395246

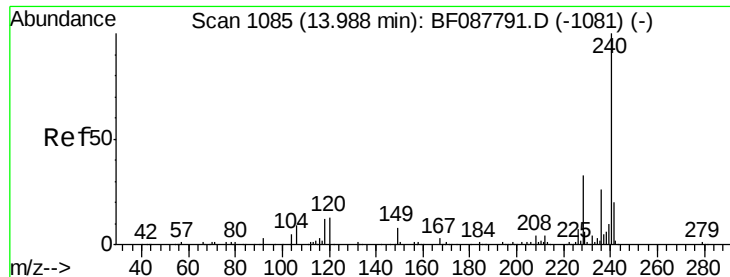
Ion Ratio Lower Upper

202 100

101 14.7 0.0 33.1

203 17.7 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.74 min Scan# 1063

Delta R.T. -0.01 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

Instrument :

BNA_F

ClientSampleId :

HF-4-WC-3RE

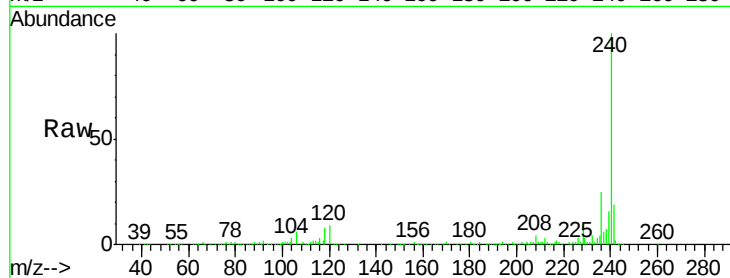
Tgt Ion:240 Resp: 252427

Ion Ratio Lower Upper

240 100

120 9.1 6.8 10.2

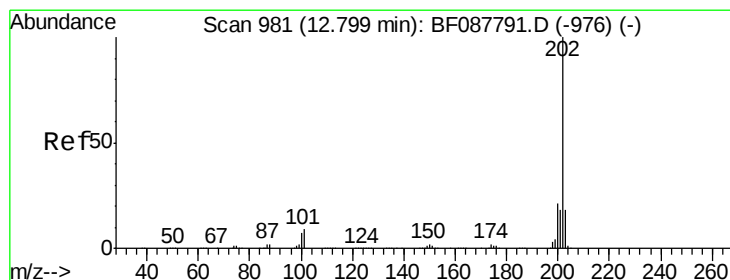
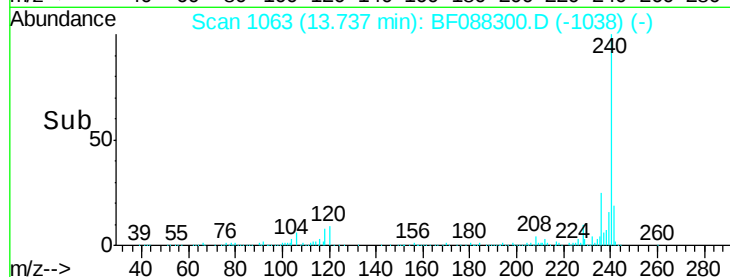
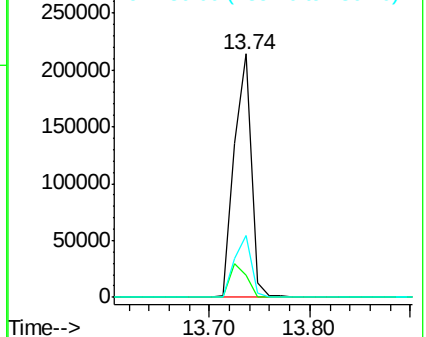
236 25.3 20.2 30.2



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

Pyrene

Concen: 17.17 ng

RT: 12.54 min Scan# 958

Delta R.T. -0.01 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

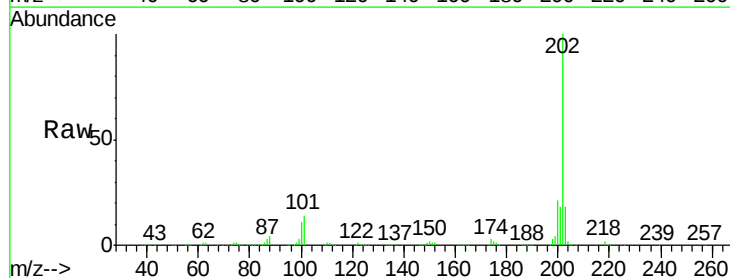
Tgt Ion:202 Resp: 321657

Ion Ratio Lower Upper

202 100

200 20.9 17.4 26.2

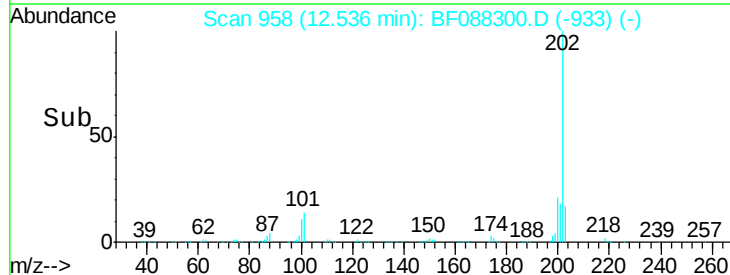
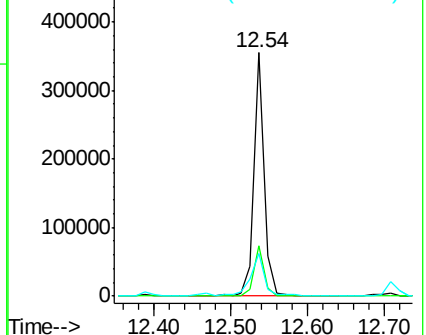
203 17.8 14.5 21.7

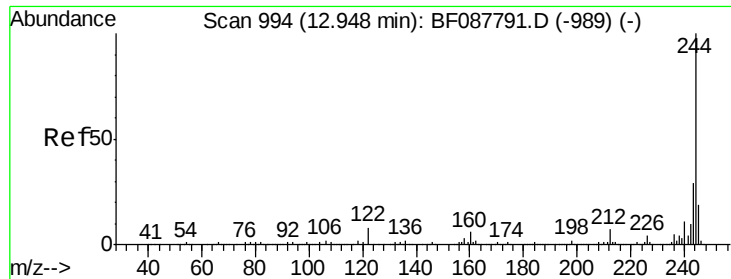


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

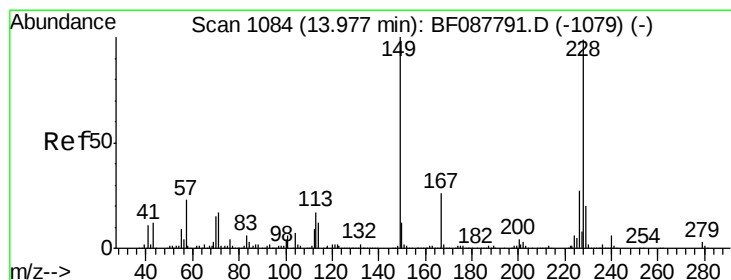
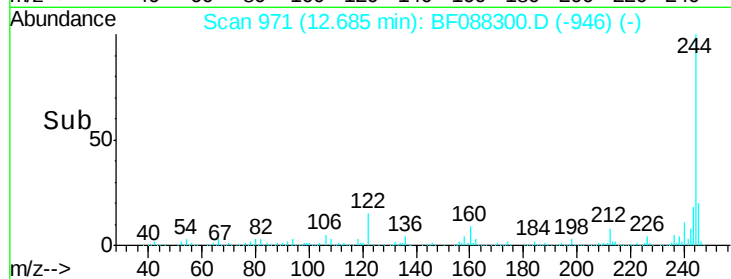
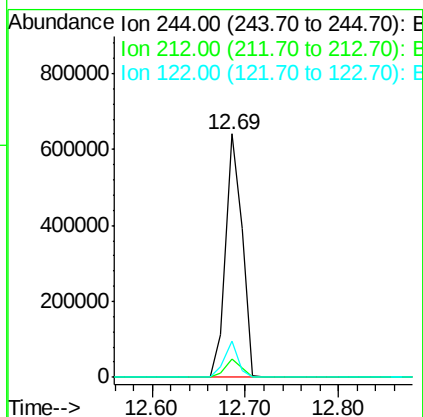
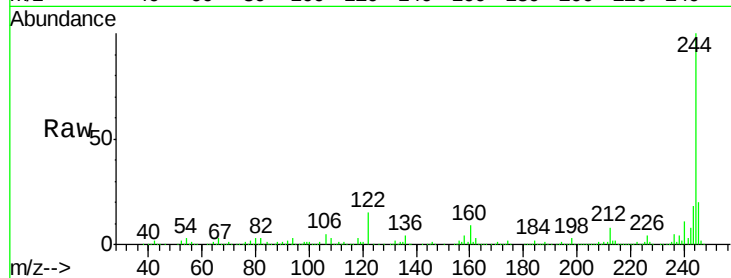




#78
 Terphenyl-d14
 Concen: 71.41 ng
 RT: 12.69 min Scan# 971
 Delta R.T. -0.01 min
 Lab File: BF088300.D
 Acq: 23 Jun 2016 20:45

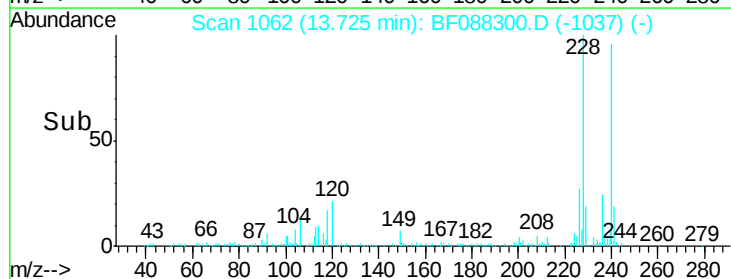
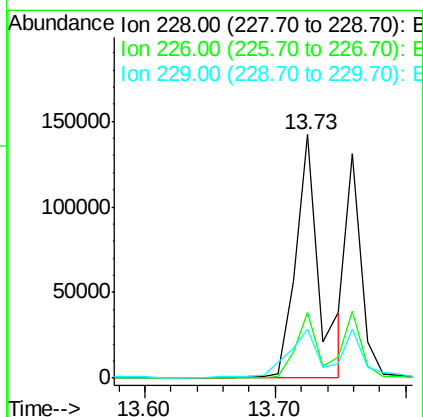
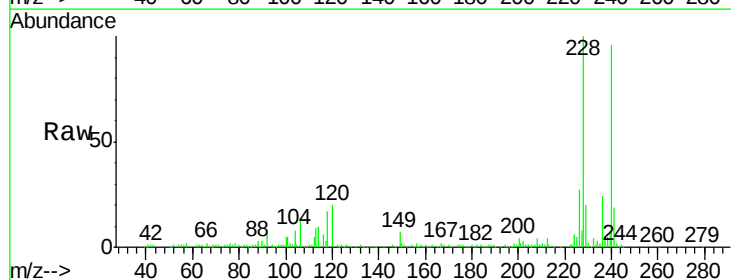
Instrument :
 BNA_F
 ClientSampleId :
 HF-4-WC-3RE

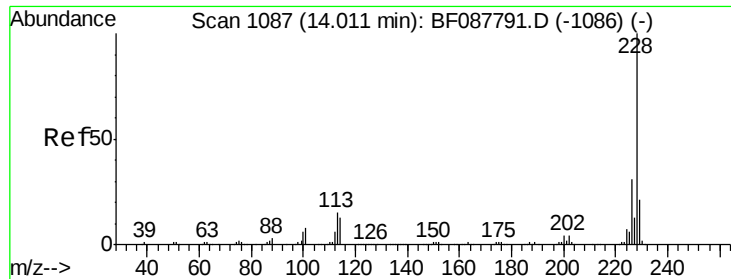
Tgt Ion:244 Resp: 792181
 Ion Ratio Lower Upper
 244 100
 212 7.8 6.0 9.0
 122 14.8 11.2 16.8



#80
 Benzo(a)anthracene
 Concen: 12.54 ng
 RT: 13.73 min Scan# 1062
 Delta R.T. -0.01 min
 Lab File: BF088300.D
 Acq: 23 Jun 2016 20:45

Tgt Ion:228 Resp: 180444
 Ion Ratio Lower Upper
 228 100
 226 27.1 22.3 33.5
 229 19.9 16.0 24.0





#82

Chrysene

Concen: 7.77 ng

RT: 13.76 min Scan# 1065

Delta R.T. -0.01 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

Instrument :

BNA_F

ClientSampleId :

HF-4-WC-3RE

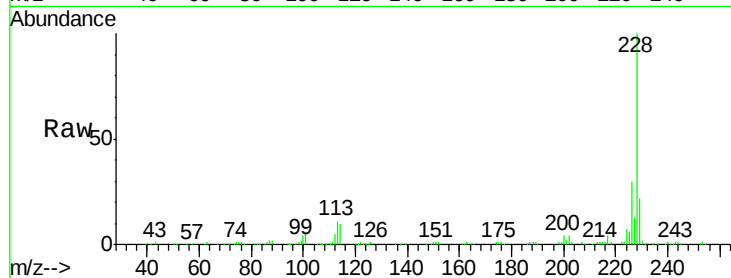
Tgt Ion:228 Resp: 105185

Ion Ratio Lower Upper

228 100

226 29.9 25.4 38.2

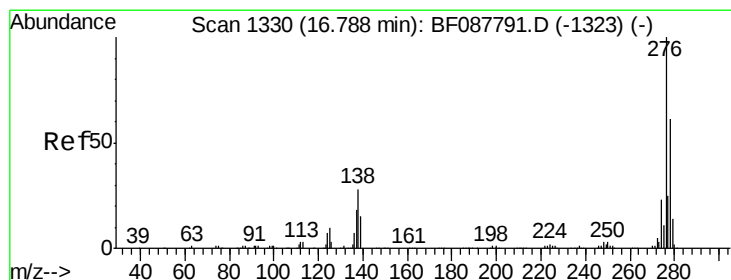
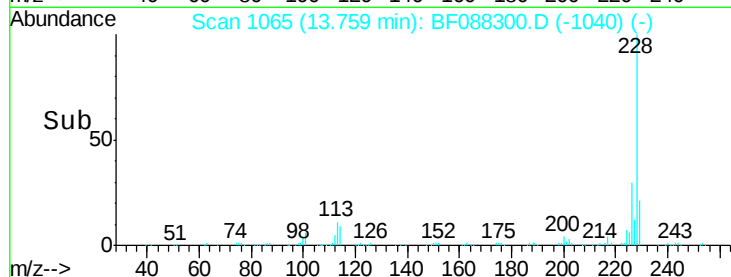
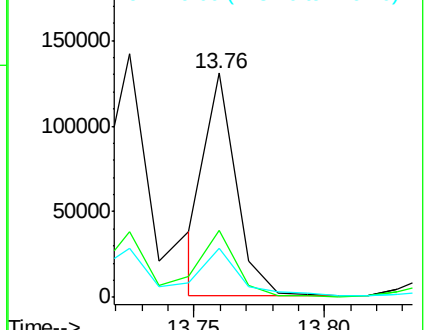
229 22.0 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 4.14 ng

RT: 16.35 min Scan# 1292

Delta R.T. -0.01 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

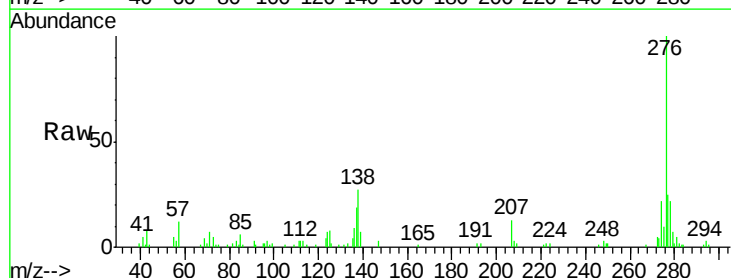
Tgt Ion:276 Resp: 52037

Ion Ratio Lower Upper

276 100

138 25.3 0.0 0.0#

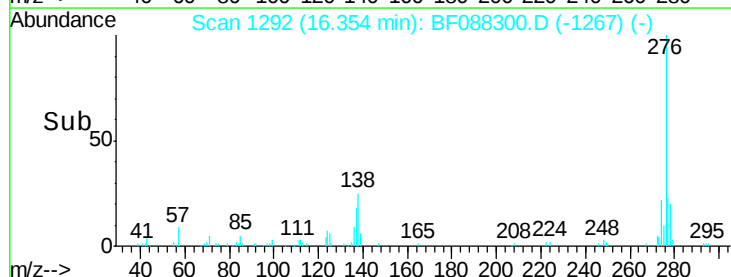
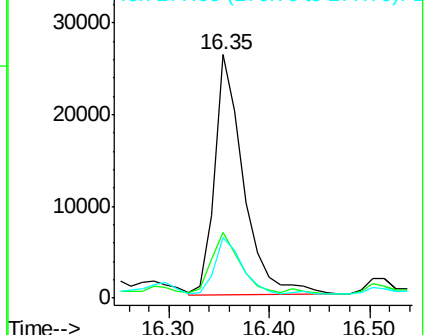
277 21.8 0.0 0.0#

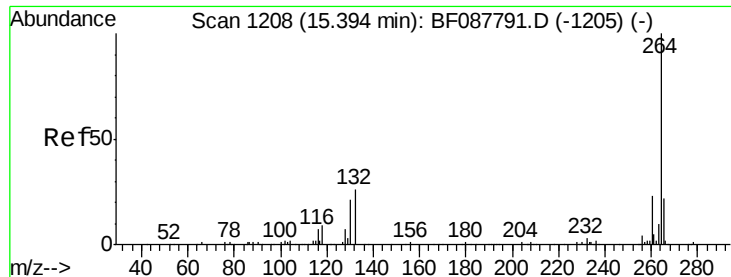


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Perylene-d12

Concen: 20.00 ng

RT: 15.09 min Scan# 1181

Delta R.T. -0.02 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

Instrument :

BNA_F

ClientSampleId :

HF-4-WC-3RE

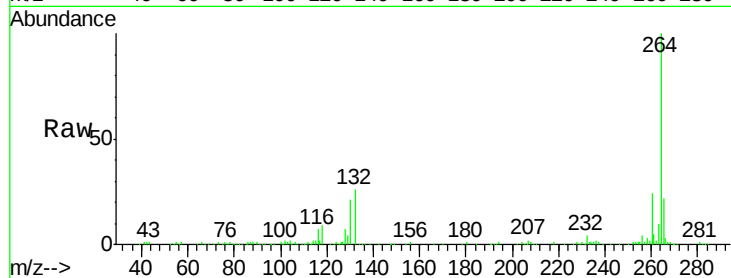
Tgt Ion:264 Resp: 218989

Ion Ratio Lower Upper

264 100

260 23.5 19.2 28.8

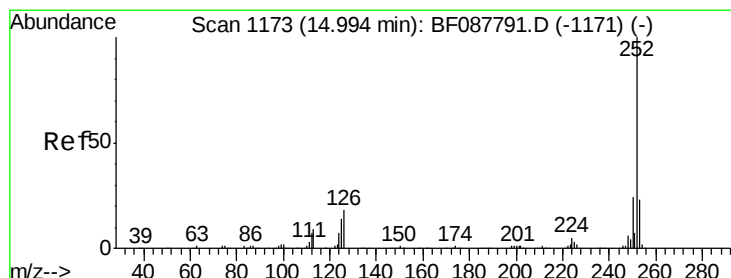
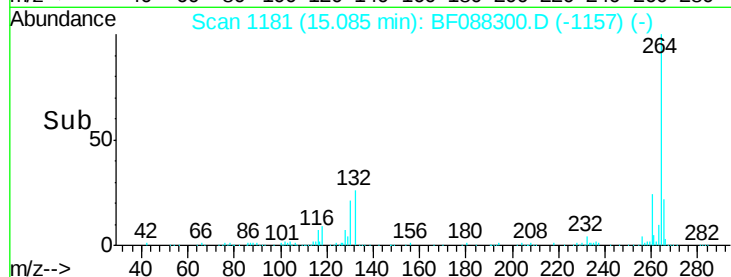
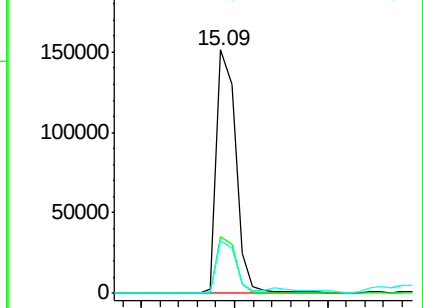
265 21.9 16.9 25.3



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: 11.96 ng

RT: 14.73 min Scan# 1150

Delta R.T. -0.01 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

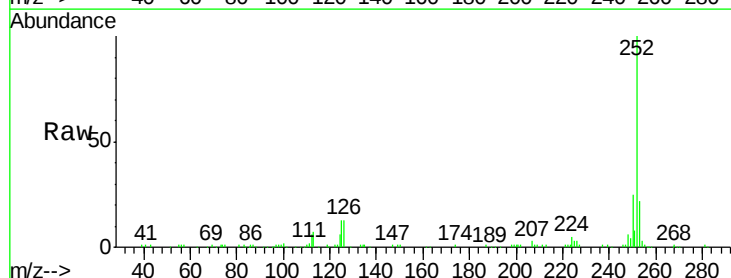
Tgt Ion:252 Resp: 182550

Ion Ratio Lower Upper

252 100

253 22.3 17.4 26.2

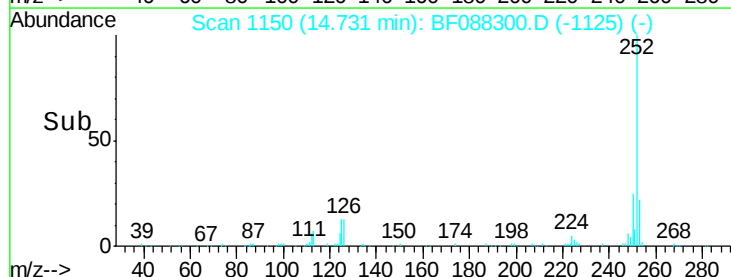
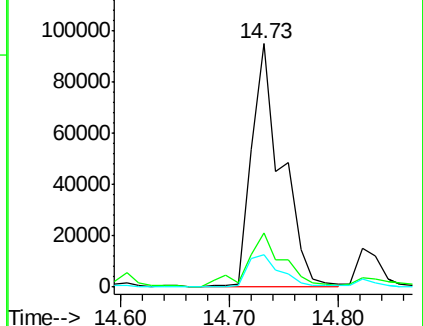
125 13.1 7.1 10.7#

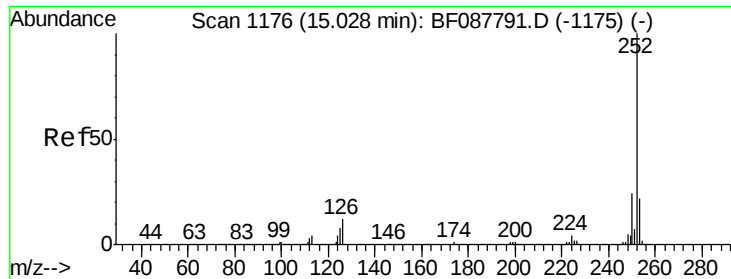


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

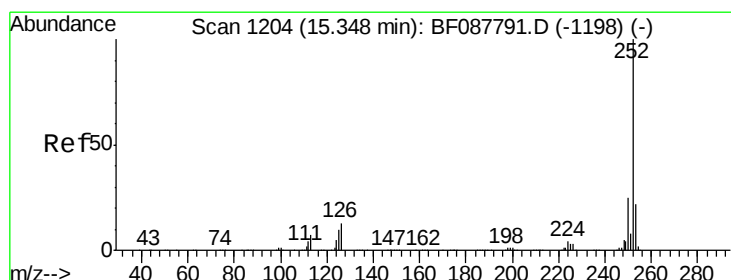
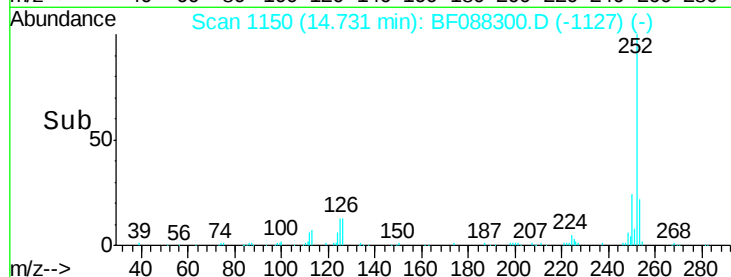
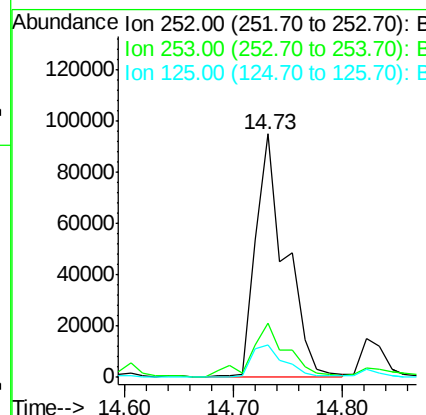
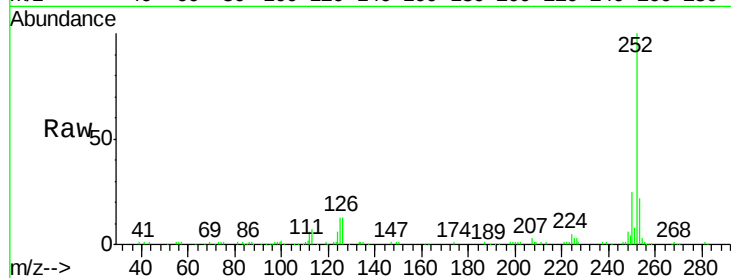




#88
Benzo(k)fluoranthene
Concen: 15.85 ng
RT: 14.73 min Scan# 1150
Delta R.T. -0.03 min
Lab File: BF088300.D
Acq: 23 Jun 2016 20:45

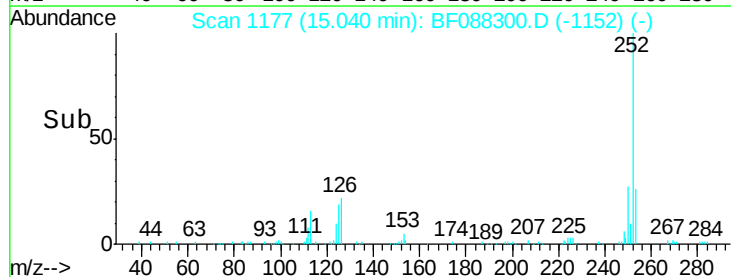
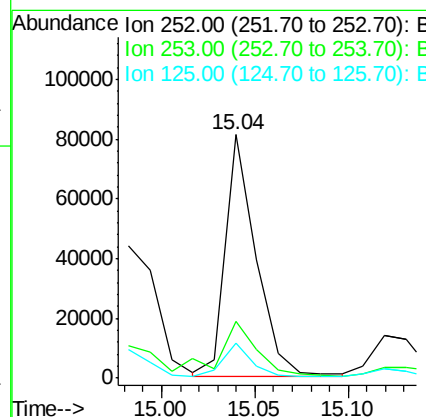
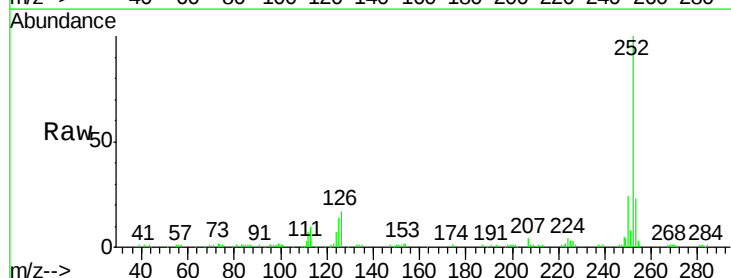
Instrument :
BNA_F
ClientSampleId :
HF-4-WC-3RE

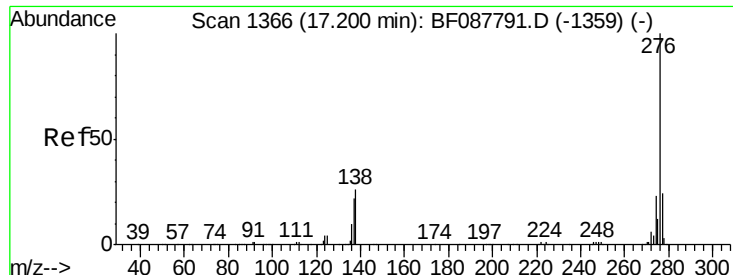
Tgt Ion:252 Resp: 182550
Ion Ratio Lower Upper
252 100
253 22.3 18.0 27.0
125 13.1 11.2 16.8



#89
Benzo(a)pyrene
Concen: 7.52 ng
RT: 15.04 min Scan# 1177
Delta R.T. -0.01 min
Lab File: BF088300.D
Acq: 23 Jun 2016 20:45

Tgt Ion:252 Resp: 92835
Ion Ratio Lower Upper
252 100
253 23.5 17.9 26.9
125 14.4 12.5 18.7





#91

Benzo(g,h,i)perylene

Concen: 4.04 ng

RT: 16.73 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF088300.D

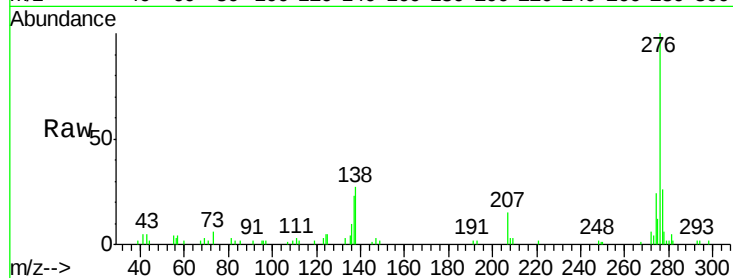
Acq: 23 Jun 2016 20:45

Instrument :

BNA_F

ClientSampleId :

HF-4-WC-3RE



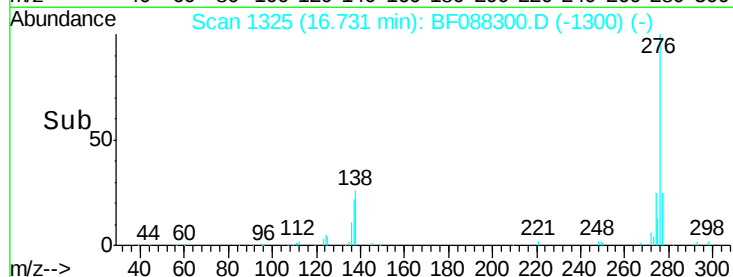
Tgt Ion: 276 Resp: 47684

Ion Ratio Lower Upper

276 100

277 26.0 18.9 28.3

138 26.9 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

