

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF060516\
 Data File : BF087737.D
 Acq On : 6 Jun 2016 5:50
 Operator : UM/SJ
 Sample : H3190-13RE
 Misc :
 ALS Vial : 73 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CHS-STA-1672(0-4)RE

Quant Time: Jun 06 06:47:40 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jun 04 11:07:28 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	162411	20.00	ng	-0.01
21) Naphthalene-d8	8.15	136	706783	20.00	ng	0.00
38) Acenaphthene-d10	9.90	164	298106	20.00	ng	-0.01
63) Phenanthrene-d10	11.38	188	522507	20.00	ng	0.00
75) Chrysene-d12	14.02	240	344581	20.00	ng	0.00
86) Perylene-d12	15.45	264	346711	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	499468	49.71	ng	0.00
7) Phenol-d6	6.49	99	773962	61.42	ng	0.00
23) Nitrobenzene-d5	7.43	82	491479	40.23	ng	0.00
41) 2,4,6-Tribromophenol	10.70	330	348360	116.42	ng	0.01
44) 2-Fluorobiphenyl	9.22	172	1010927	45.26	ng	-0.01
78) Terphenyl-d14	12.97	244	1141874	80.86	ng	0.00

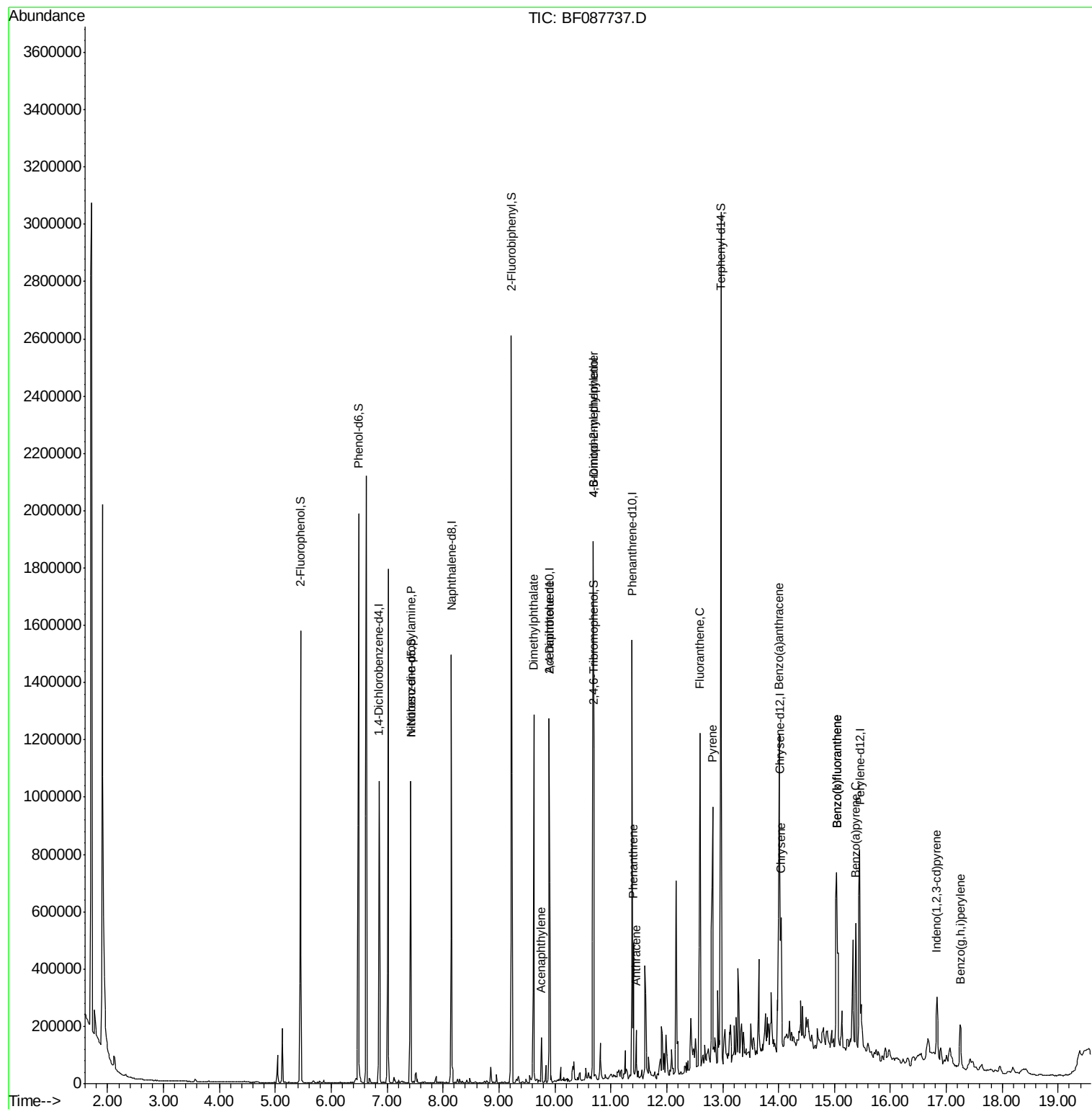
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.43	70	63606	8.08	ng	# 71
48) Acenaphthylene	9.76	152	62369	2.08	ng	99
49) Dimethylphthalate	9.62	163	516814	23.85	ng	100
56) 2,4-Dinitrotoluene	9.90	165	39054	6.22	ng	# 38
64) 4,6-Dinitro-2-methylphenol	10.68	198	394	2.15	ng	# 1
66) 4-Bromophenyl-phenylether	10.68	248	20147	3.89	ng	# 1
70) Phenanthrene	11.41	178	162572	5.74	ng	98
71) Anthracene	11.45	178	64737	2.28	ng	98
74) Fluoranthene	12.59	202	485069	17.40	ng	97
77) Pyrene	12.82	202	460435	18.76	ng	99
80) Benzo(a)anthracene	14.01	228	248373	12.49	ng	95
82) Chrysene	14.05	228	225898	11.41	ng	97
85) Indeno(1,2,3-cd)pyrene	16.83	276	139672	8.54	ng	# 100
87) Benzo(b)fluoranthene	15.04	252	481394	21.34	ng	# 96
88) Benzo(k)fluoranthene	15.04	252	481394	25.65	ng	99
89) Benzo(a)pyrene	15.38	252	187760	9.90	ng	97
91) Benzo(g,h,i)perylene	17.26	276	120000	7.37	ng	# 94

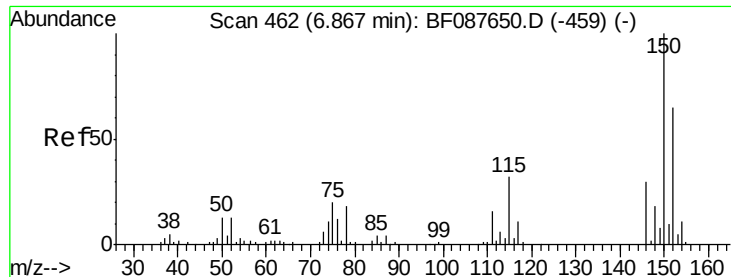
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.86 min Scan# 461

Delta R.T. -0.01 min

Lab File: BF087737.D

Acq: 6 Jun 2016 5:50

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1672(0-4)RE

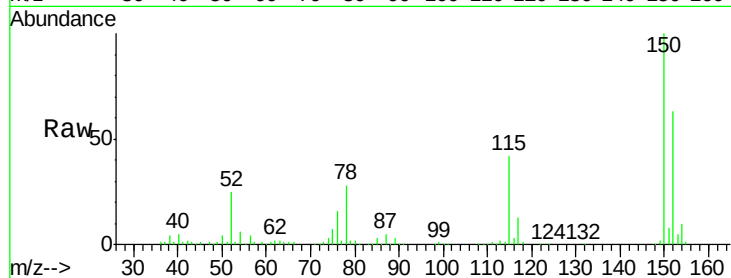
Tgt Ion:152 Resp: 162411

Ion Ratio Lower Upper

152 100

150 159.3 123.8 185.6

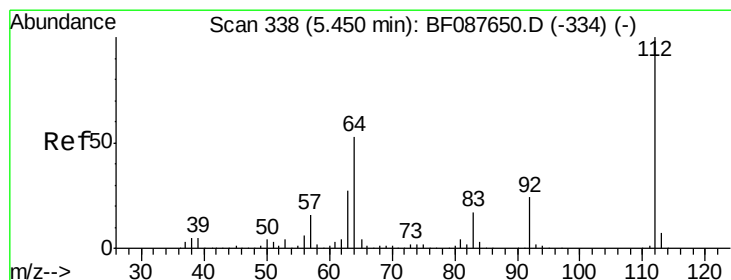
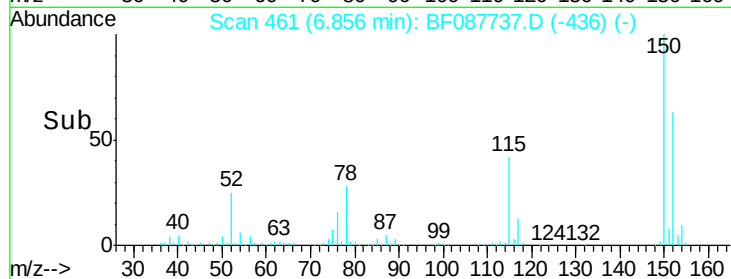
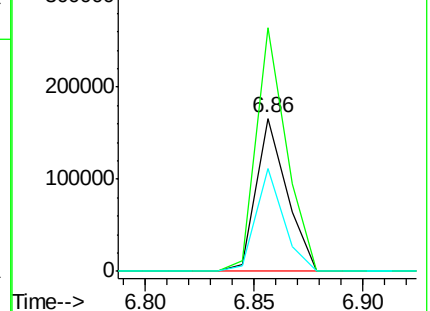
115 67.4 39.6 59.4#



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: 49.71 ng

RT: 5.45 min Scan# 338

Delta R.T. 0.00 min

Lab File: BF087737.D

Acq: 6 Jun 2016 5:50

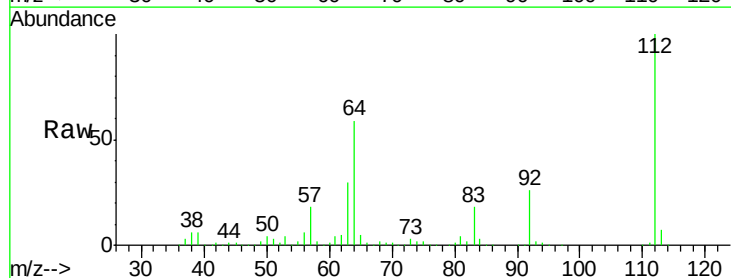
Tgt Ion:112 Resp: 499468

Ion Ratio Lower Upper

112 100

64 59.2 42.2 63.2

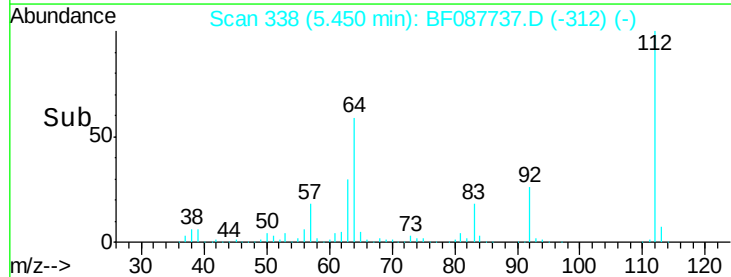
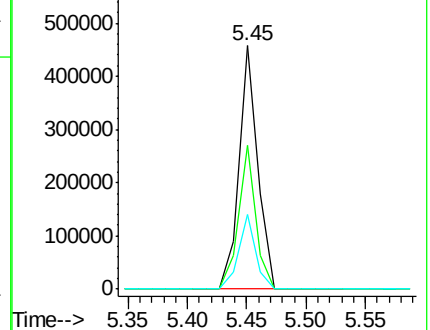
63 30.5 21.8 32.8

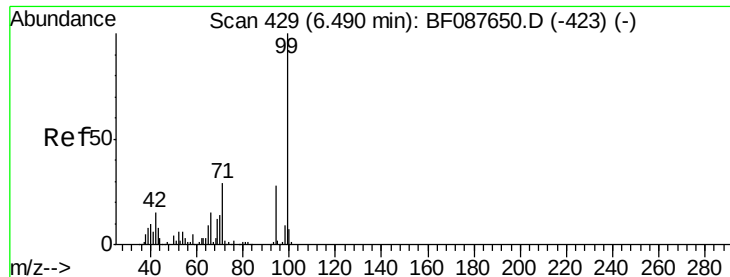


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 61.42 ng

RT: 6.49 min Scan# 429

Delta R.T. 0.00 min

Lab File: BF087737.D

Acq: 6 Jun 2016 5:50

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1672(0-4)RE

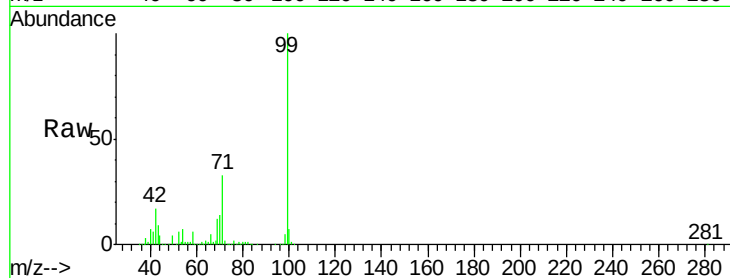
Tgt Ion: 99 Resp: 773962

Ion Ratio Lower Upper

99 100

42 17.0 12.2 18.2

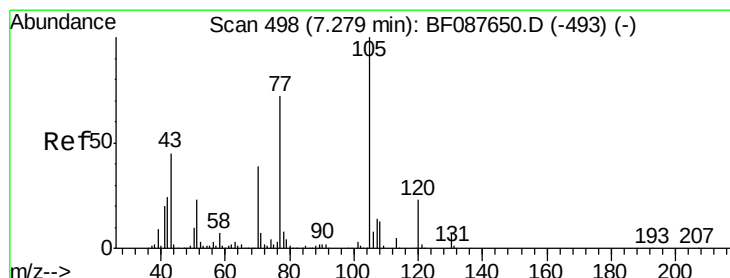
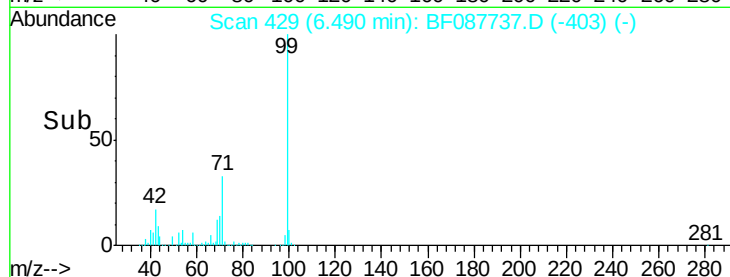
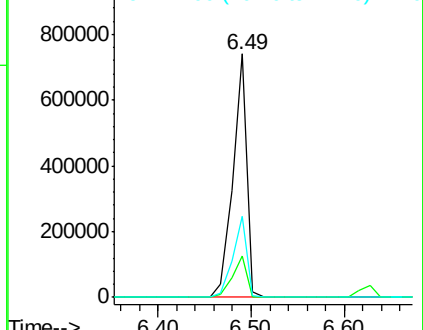
71 33.3 23.4 35.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 8.08 ng

RT: 7.43 min Scan# 511

Delta R.T. 0.15 min

Lab File: BF087737.D

Acq: 6 Jun 2016 5:50

Tgt Ion: 70 Resp: 63606

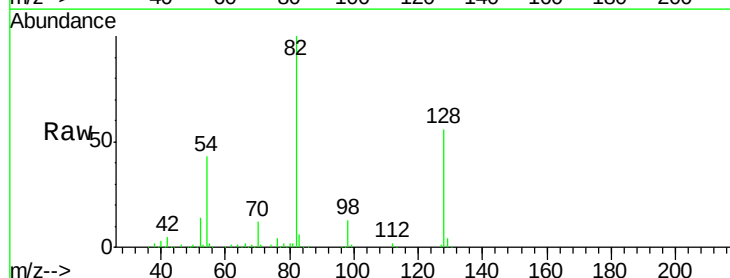
Ion Ratio Lower Upper

70 100

42 40.5 49.6 74.4#

101 0.0 7.1 10.7#

130 2.7 15.4 23.2#

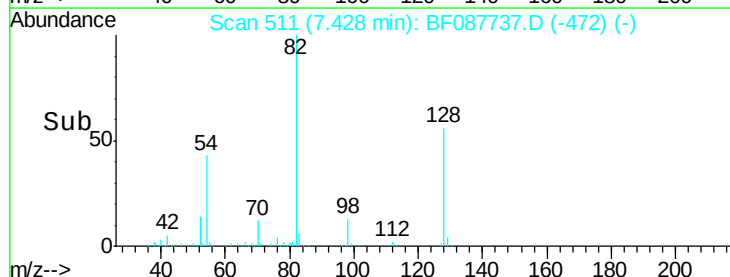
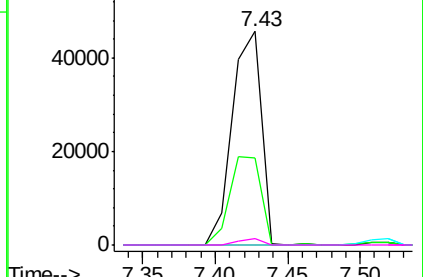


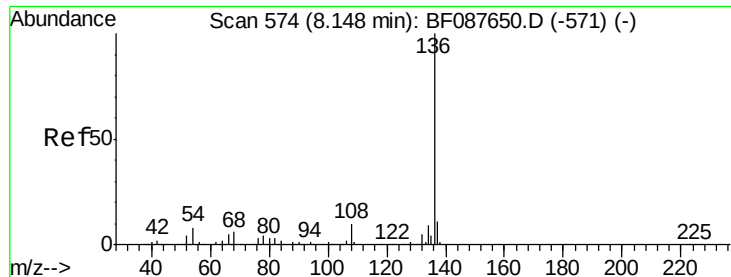
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

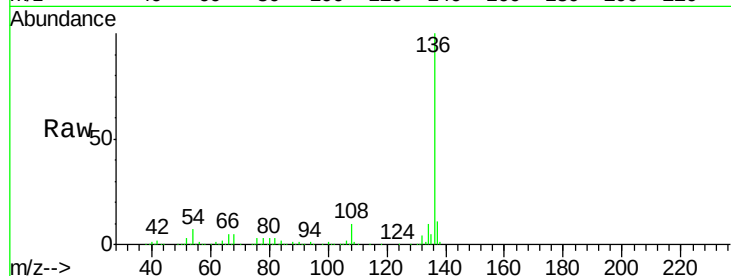




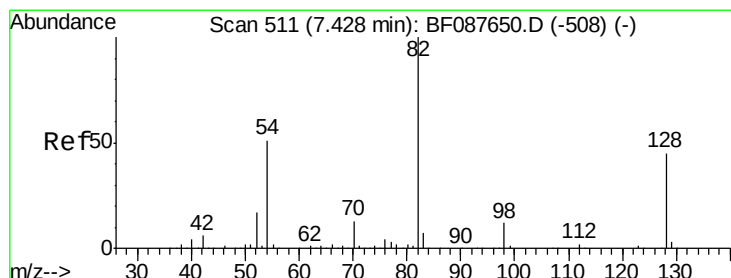
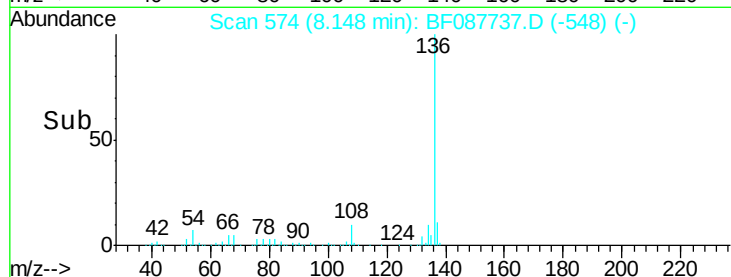
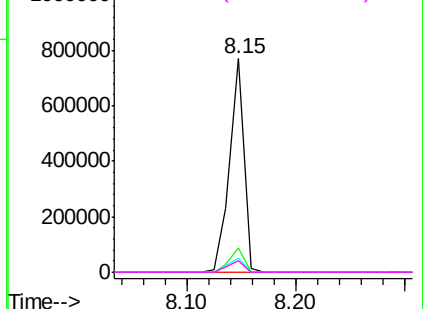
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.15 min Scan# 574
Delta R.T. 0.00 min
Lab File: BF087737.D
Acq: 6 Jun 2016 5:50

Instrument :
BNA_F
ClientSampleId :
CHS-STA-1672(0-4)RE

Tgt Ion:	136	Resp:	706783
Ion Ratio	Lower	Upper	
136	100		
137	11.1	9.1	13.7
54	6.7	6.6	10.0
68	5.4	5.1	7.7

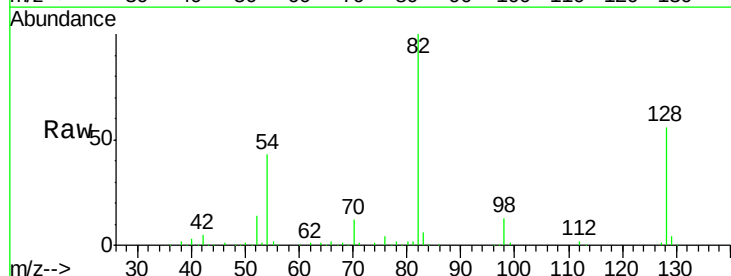


Abundance Ion 136.00 (135.70 to 136.70): E
1200000
Ion 137.00 (136.70 to 137.70): E
1000000
Ion 54.00 (53.70 to 54.70): BF0
800000
Ion 68.00 (67.70 to 68.70): BF0
600000
400000
200000
0

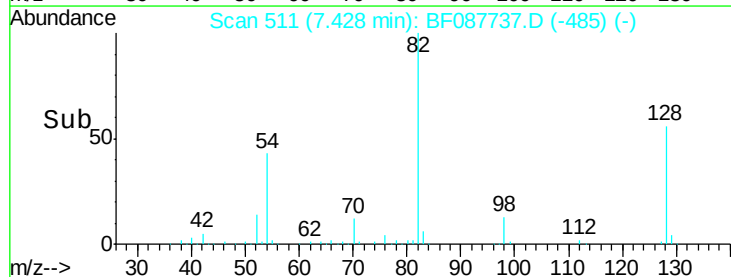
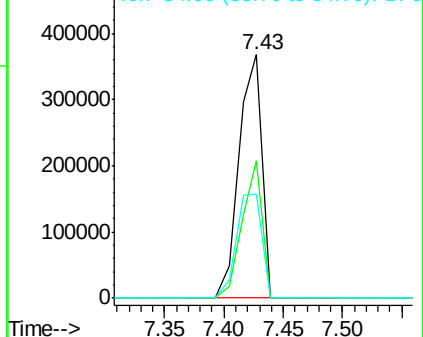


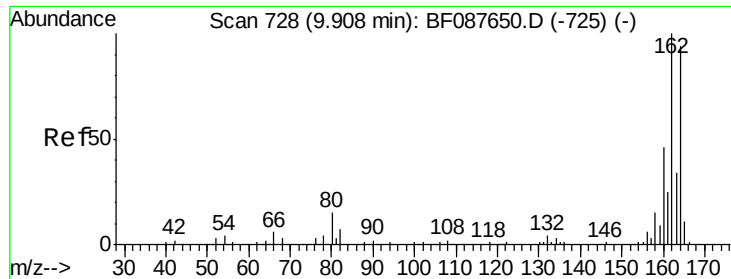
#23
Nitrobenzene-d5
Concen: 40.23 ng
RT: 7.43 min Scan# 511
Delta R.T. 0.00 min
Lab File: BF087737.D
Acq: 6 Jun 2016 5:50

Tgt Ion:	82	Resp:	491479
Ion Ratio	Lower	Upper	
82	100		
128	56.4	35.9	53.9#
54	42.6	40.9	61.3



Abundance Ion 82.00 (81.70 to 82.70): BF0
500000
Ion 128.00 (127.70 to 128.70): E
400000
Ion 54.00 (53.70 to 54.70): BF0
300000
200000
100000
0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.90 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF087737.D

Acq: 6 Jun 2016 5:50

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1672(0-4)RE

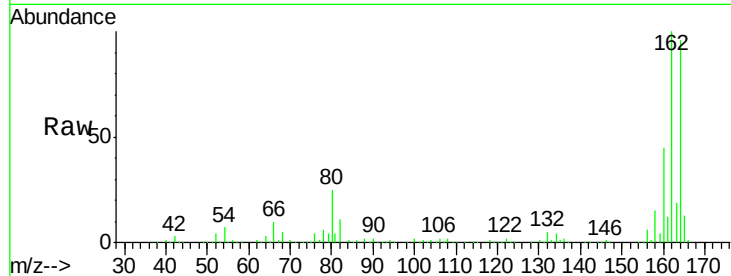
Tgt Ion:164 Resp: 298106

Ion Ratio Lower Upper

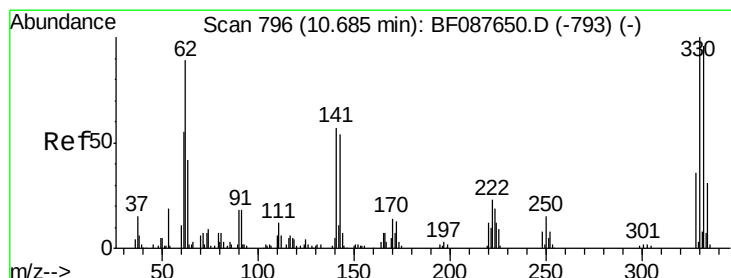
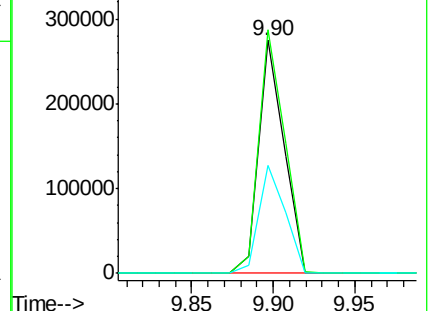
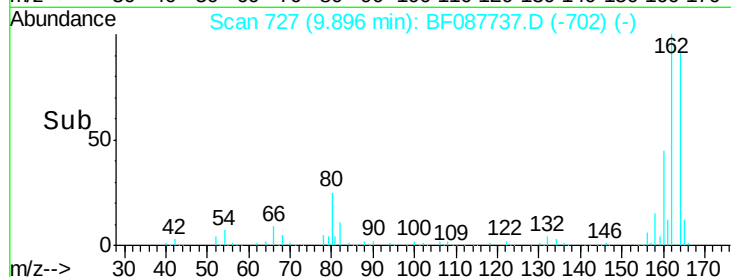
164 100

162 104.4 85.4 128.2

160 46.5 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: 116.42 ng

RT: 10.70 min Scan# 797

Delta R.T. 0.01 min

Lab File: BF087737.D

Acq: 6 Jun 2016 5:50

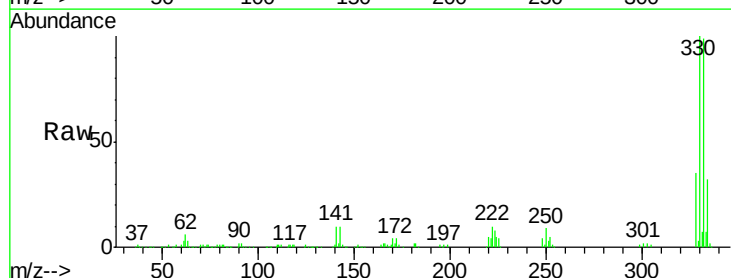
Tgt Ion:330 Resp: 348360

Ion Ratio Lower Upper

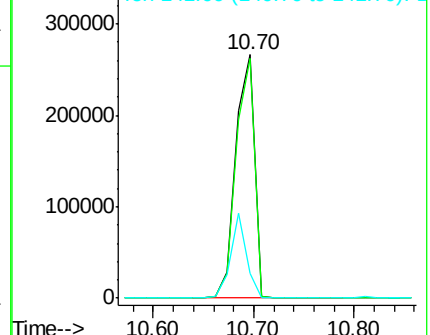
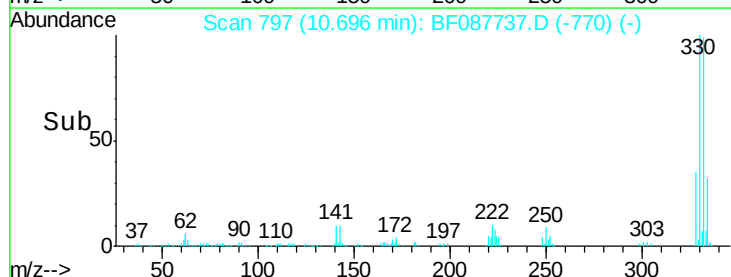
330 100

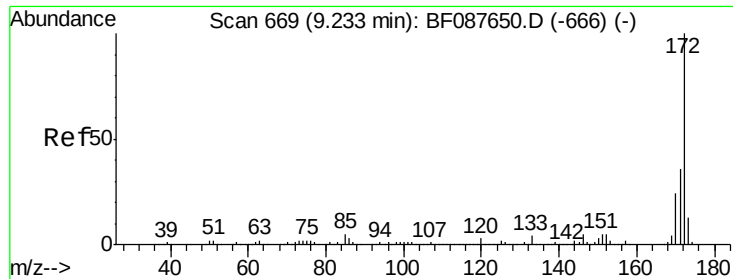
332 96.8 0.0 0.0#

141 29.9 0.0 0.0#



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

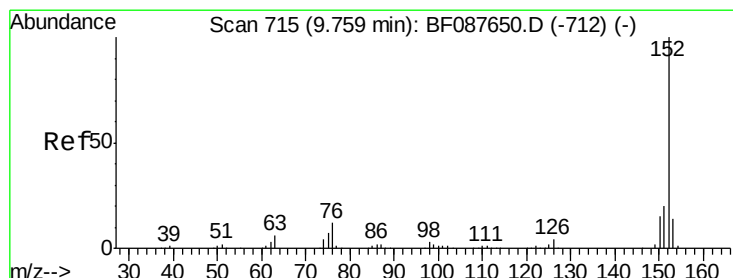
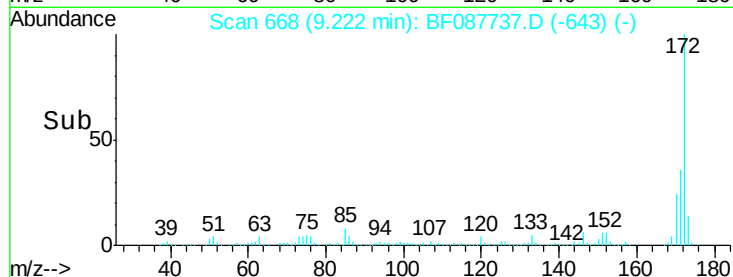
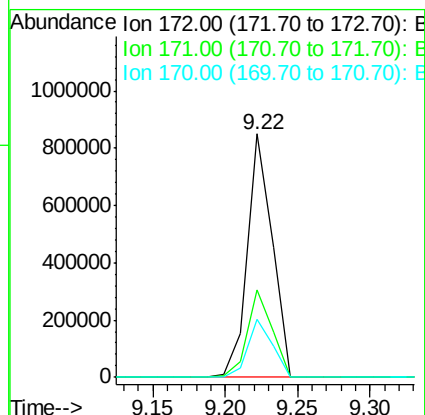
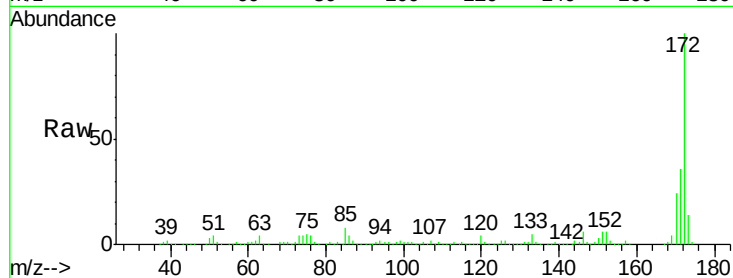




#44
 2-Fluorobiphenyl
 Concen: 45.26 ng
 RT: 9.22 min Scan# 668
 Delta R.T. -0.01 min
 Lab File: BF087737.D
 Acq: 6 Jun 2016 5:50

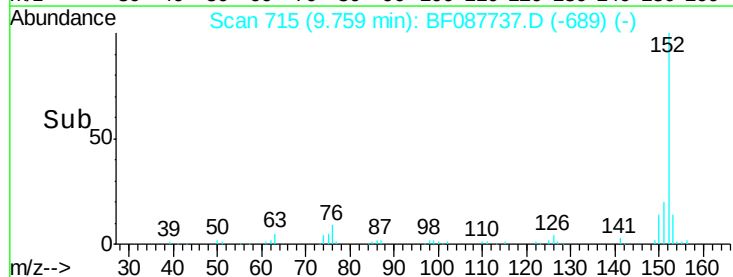
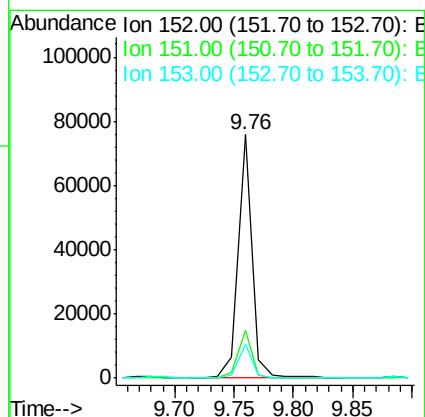
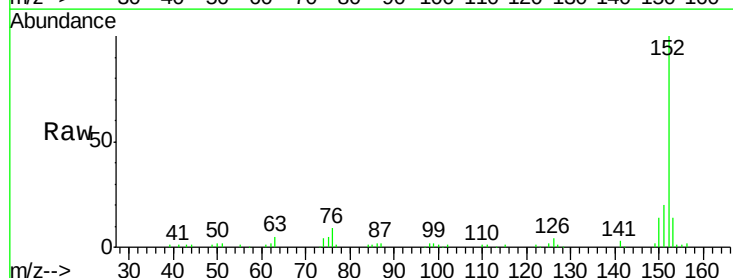
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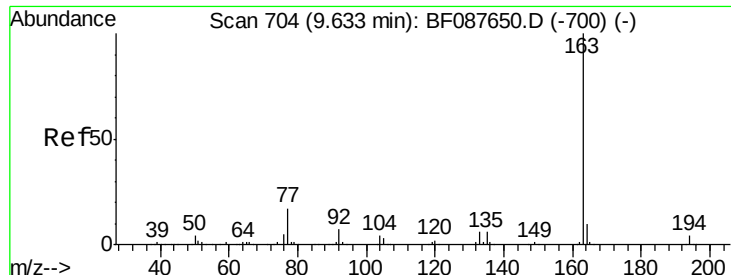
Tgt Ion:172 Resp: 1010927
 Ion Ratio Lower Upper
 172 100
 171 35.9 28.6 43.0
 170 23.9 19.2 28.8



#48
 Acenaphthylene
 Concen: 2.08 ng
 RT: 9.76 min Scan# 715
 Delta R.T. 0.00 min
 Lab File: BF087737.D
 Acq: 6 Jun 2016 5:50

Tgt Ion:152 Resp: 62369
 Ion Ratio Lower Upper
 152 100
 151 19.7 16.2 24.4
 153 13.6 11.0 16.6

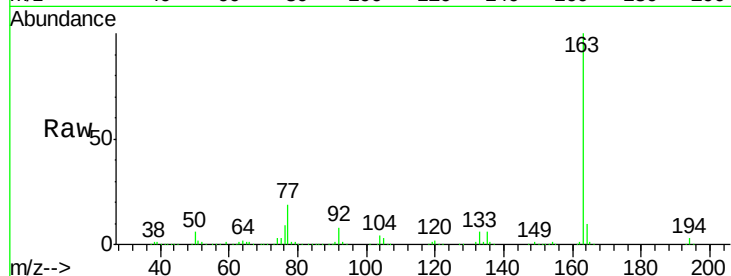




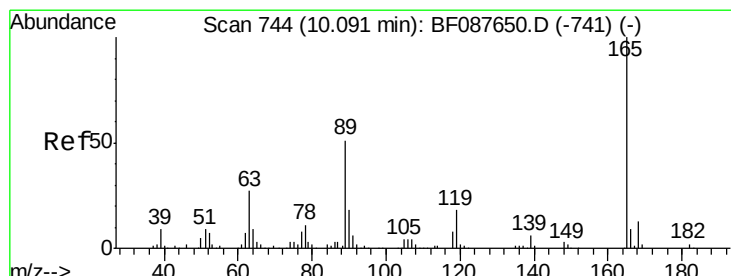
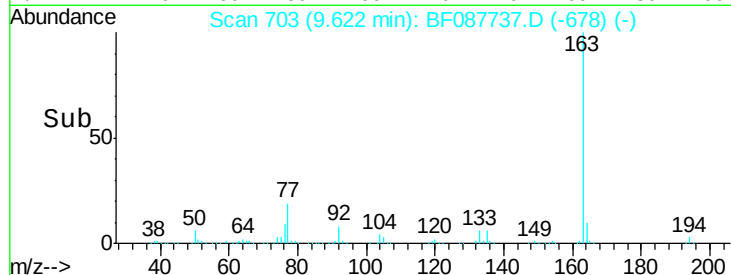
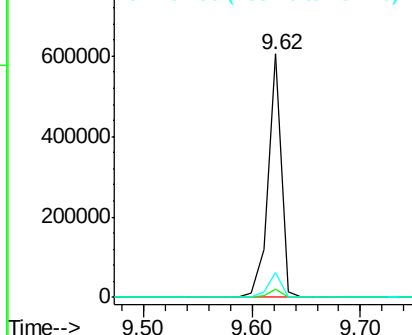
#49
Dimethylphthalate
Concen: 23.85 ng
RT: 9.62 min Scan# 703
Delta R.T. -0.01 min
Lab File: BF087737.D
Acq: 6 Jun 2016 5:50

Instrument :
BNA_F
ClientSampleId :
CHS-STA-1672(0-4)RE

Tgt Ion:163 Resp: 516814
Ion Ratio Lower Upper
163 100
194 3.4 2.8 4.2
164 10.2 8.3 12.5

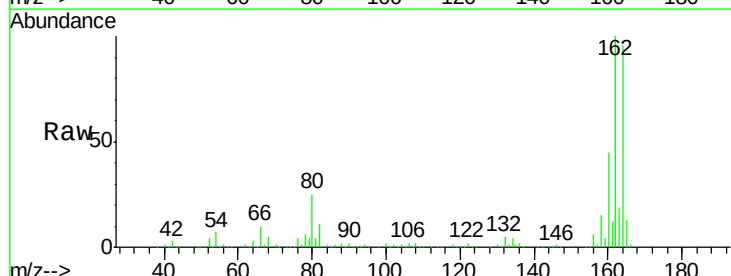


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

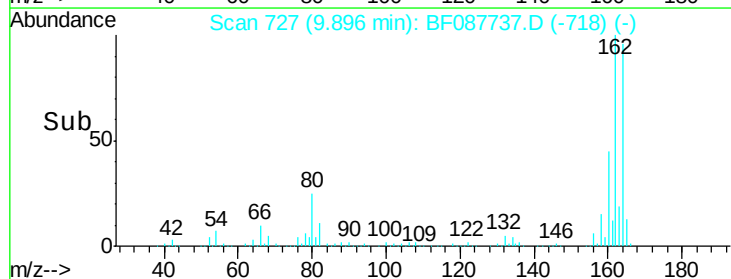
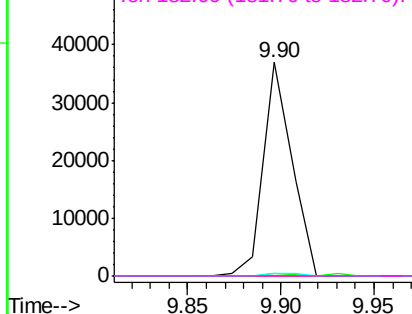


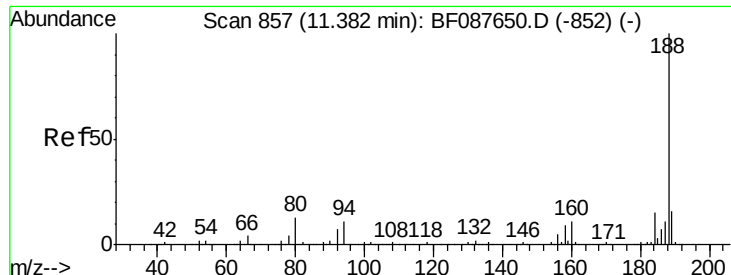
#56
2,4-Dinitrotoluene
Concen: 6.22 ng
RT: 9.90 min Scan# 727
Delta R.T. -0.19 min
Lab File: BF087737.D
Acq: 6 Jun 2016 5:50

Tgt Ion:165 Resp: 39054
Ion Ratio Lower Upper
165 100
63 1.3 22.0 33.0#
89 1.3 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

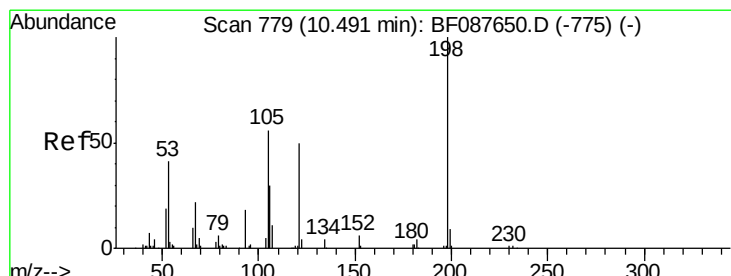
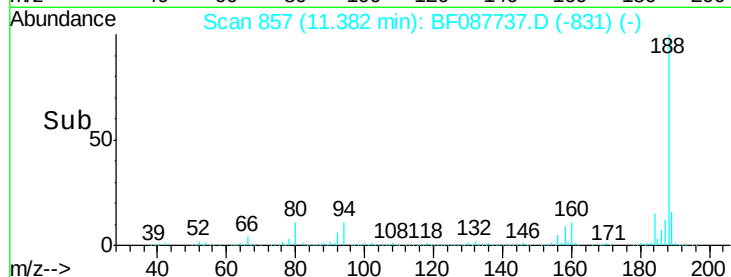
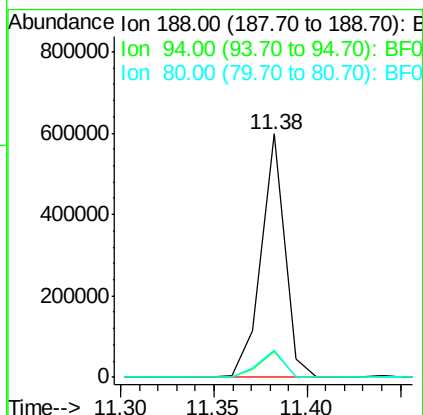
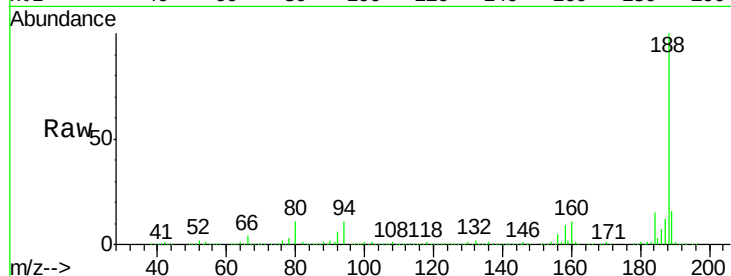




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.38 min Scan# 857
 Delta R.T. 0.00 min
 Lab File: BF087737.D
 Acq: 6 Jun 2016 5:50

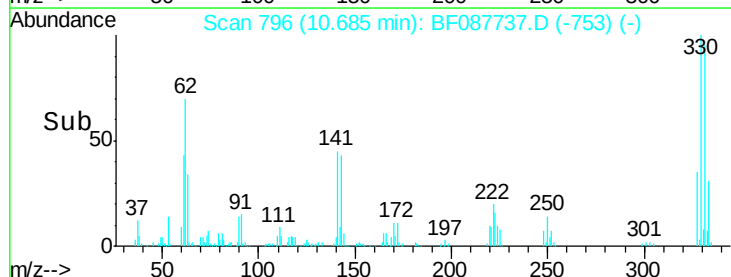
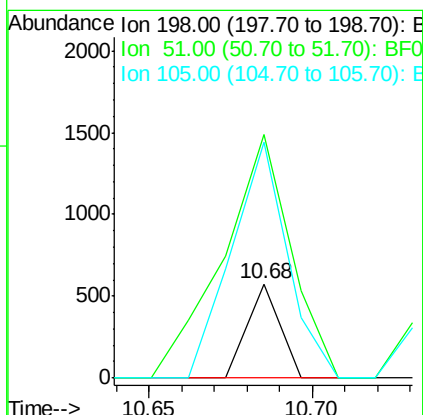
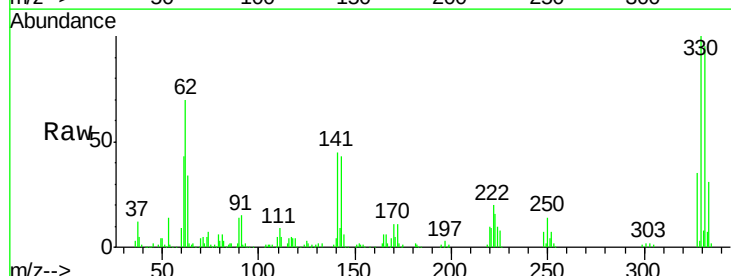
Instrument :
 BNA_F
 ClientSampleId :
 CHS-STA-1672(0-4)RE

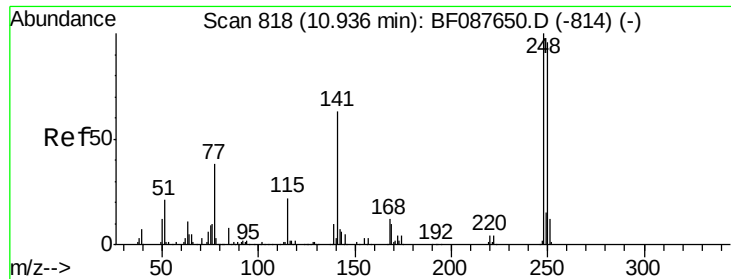
Tgt Ion:188 Resp: 522507
 Ion Ratio Lower Upper
 188 100
 94 10.7 9.0 13.6
 80 11.2 10.0 15.0



#64
 4,6-Dinitro-2-methylphenol
 Concen: 2.15 ng
 RT: 10.68 min Scan# 796
 Delta R.T. 0.19 min
 Lab File: BF087737.D
 Acq: 6 Jun 2016 5:50

Tgt Ion:198 Resp: 394
 Ion Ratio Lower Upper
 198 100
 51 258.8 39.6 79.6#
 105 250.8 36.6 76.6#

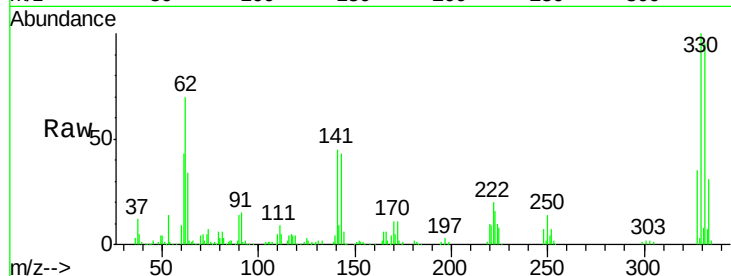




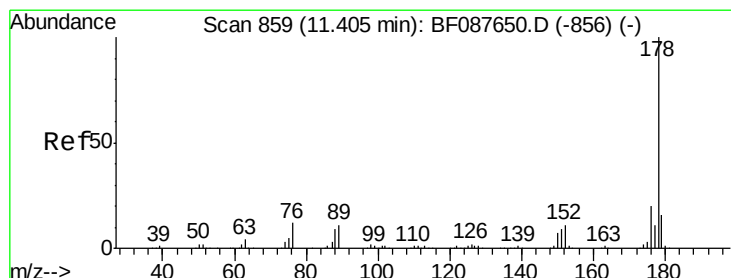
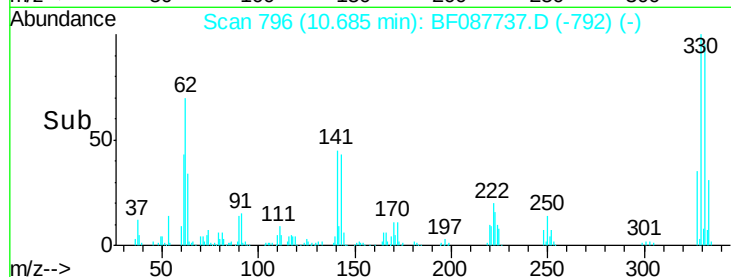
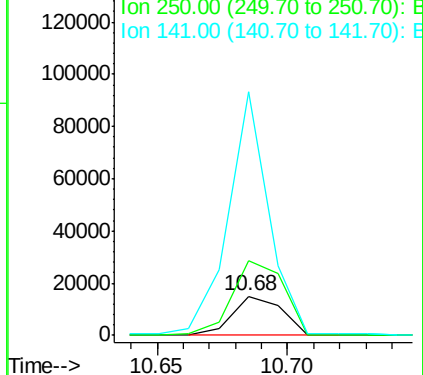
#66
 4-Bromophenyl-phenylether
 Concen: 3.89 ng
 RT: 10.68 min Scan# 796
 Delta R.T. -0.25 min
 Lab File: BF087737.D
 Acq: 6 Jun 2016 5:50

Instrument :
 BNA_F
 ClientSampleId :
 CHS-STA-1672(0-4)RE

Tgt Ion:248 Resp: 20147
 Ion Ratio Lower Upper
 248 100
 250 190.6 77.1 115.7#
 141 621.2 50.6 76.0#

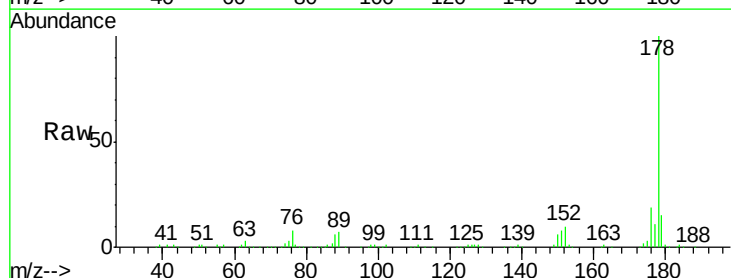


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

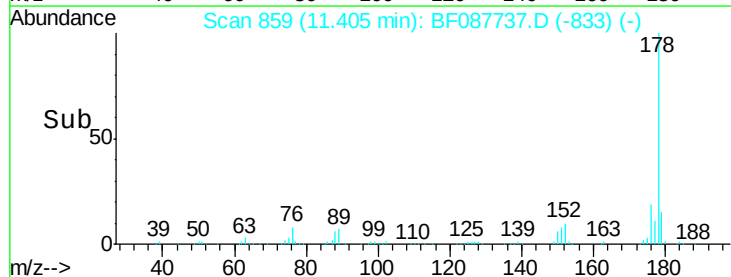
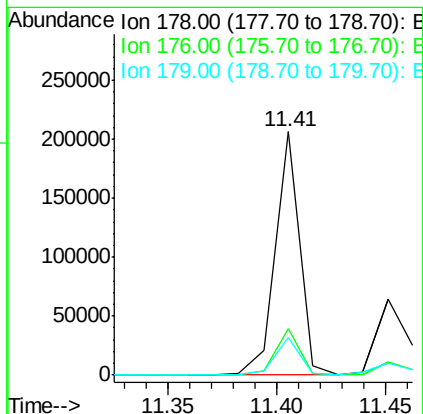


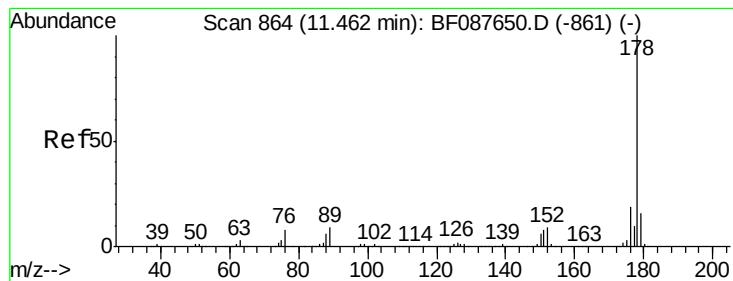
#70
 Phenanthrene
 Concen: 5.74 ng
 RT: 11.41 min Scan# 859
 Delta R.T. 0.00 min
 Lab File: BF087737.D
 Acq: 6 Jun 2016 5:50

Tgt Ion:178 Resp: 162572
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.8 23.6
 179 15.2 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: 2.28 ng

RT: 11.45 min Scan# 863

Delta R.T. -0.01 min

Lab File: BF087737.D

Acq: 6 Jun 2016 5:50

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1672(0-4)RE

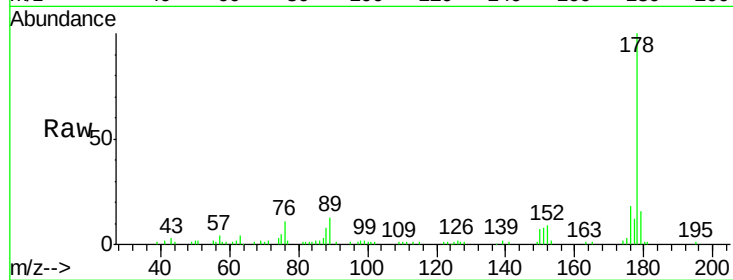
Tgt Ion:178 Resp: 64737

Ion Ratio Lower Upper

178 100

176 17.9 15.6 23.4

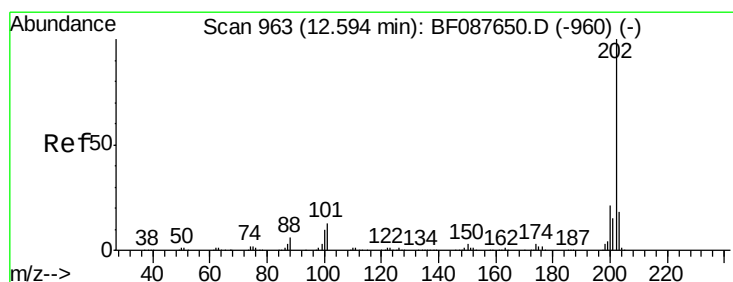
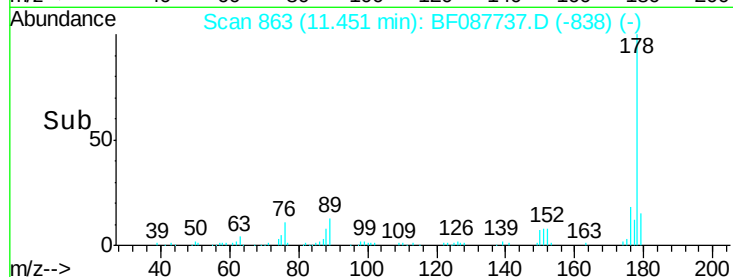
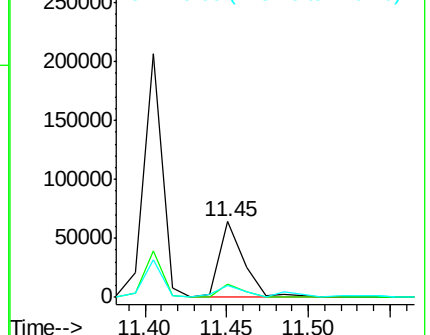
179 15.6 12.8 19.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 17.40 ng

RT: 12.59 min Scan# 963

Delta R.T. 0.00 min

Lab File: BF087737.D

Acq: 6 Jun 2016 5:50

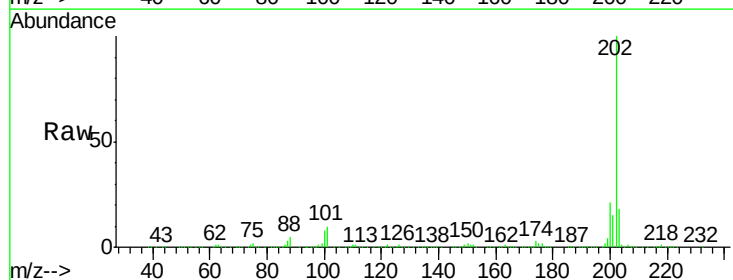
Tgt Ion:202 Resp: 485069

Ion Ratio Lower Upper

202 100

101 10.3 0.0 33.1

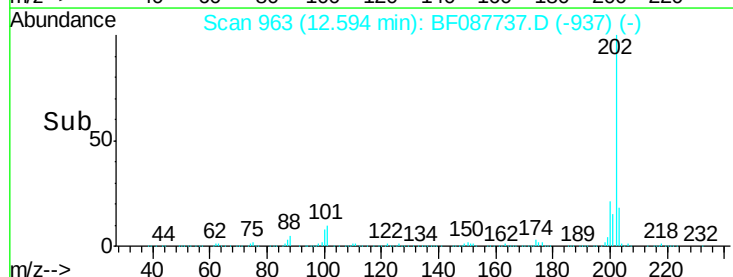
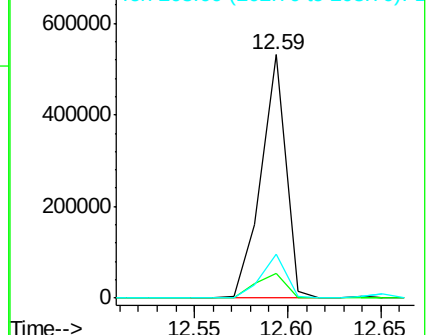
203 17.9 0.0 38.1

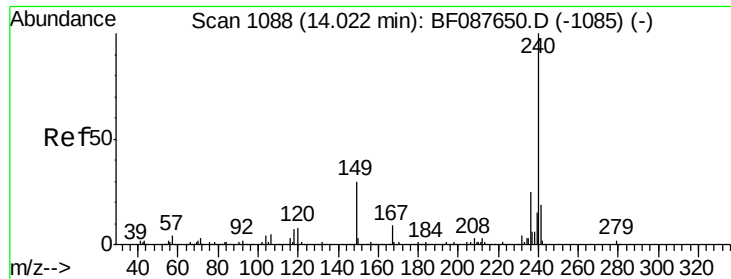


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

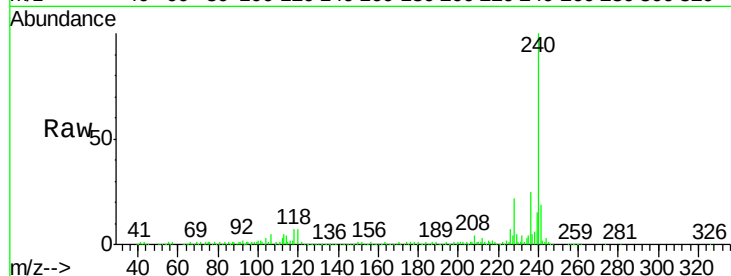




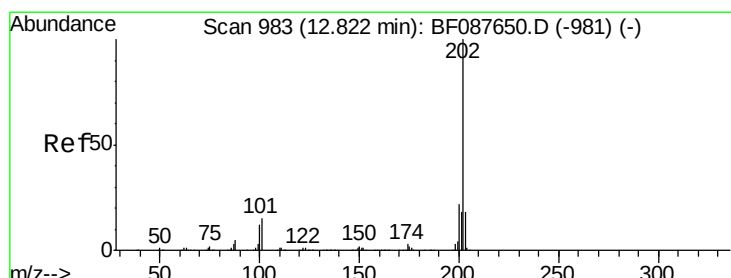
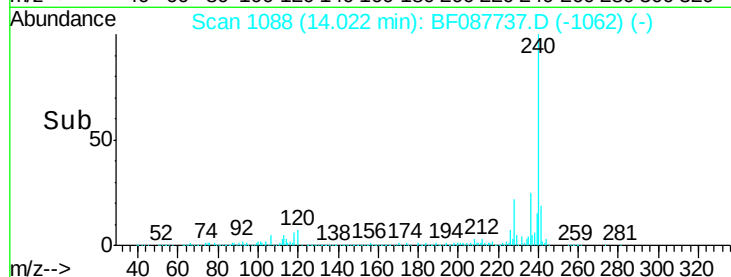
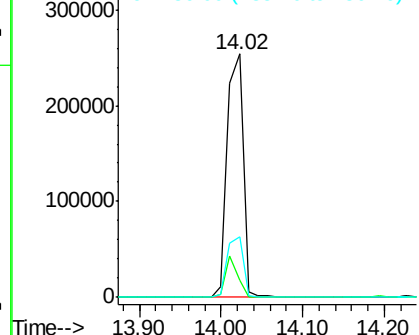
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.02 min Scan# 1088
 Delta R.T. 0.00 min
 Lab File: BF087737.D
 Acq: 6 Jun 2016 5:50

Instrument :
 BNA_F
 ClientSampleId :
 CHS-STA-1672(0-4)RE

Tgt Ion:240 Resp: 344581
 Ion Ratio Lower Upper
 240 100
 120 7.2 6.8 10.2
 236 25.1 20.2 30.2

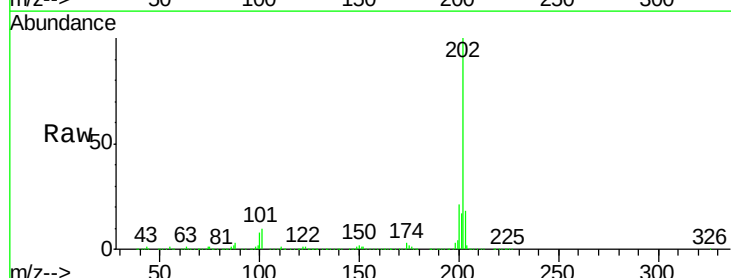


Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E

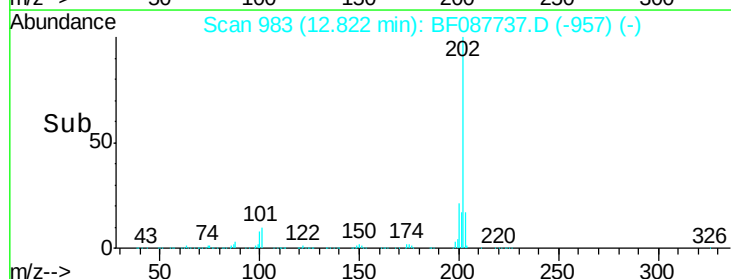
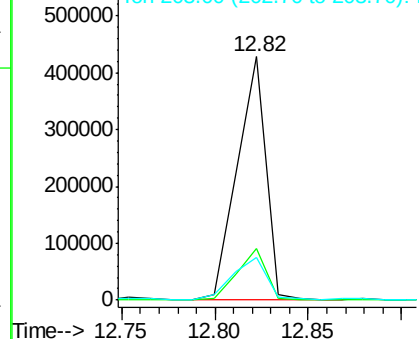


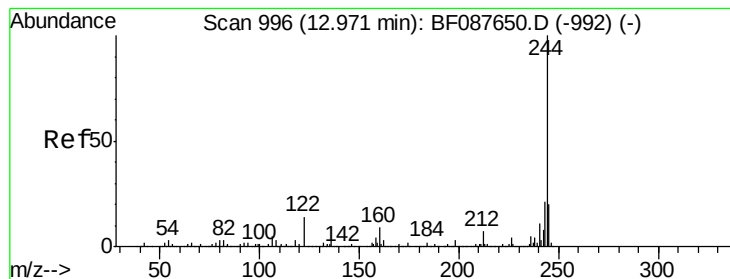
#77
 Pyrene
 Concen: 18.76 ng
 RT: 12.82 min Scan# 983
 Delta R.T. 0.00 min
 Lab File: BF087737.D
 Acq: 6 Jun 2016 5:50

Tgt Ion:202 Resp: 460435
 Ion Ratio Lower Upper
 202 100
 200 21.0 17.4 26.2
 203 17.7 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: 80.86 ng

RT: 12.97 min Scan# 996

Delta R.T. 0.00 min

Lab File: BF087737.D

Acq: 6 Jun 2016 5:50

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1672(0-4)RE

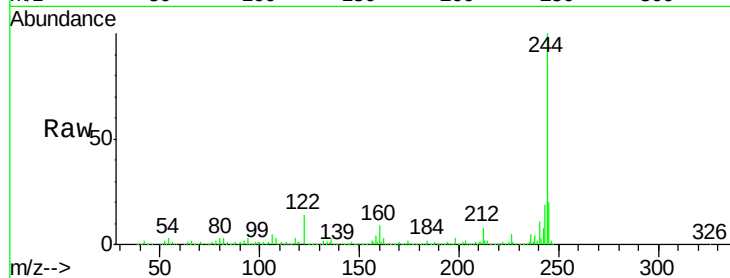
Tgt Ion:244 Resp: 1141874

Ion Ratio Lower Upper

244 100

212 7.7 6.0 9.0

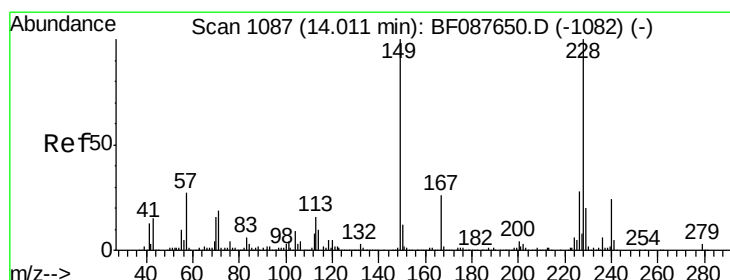
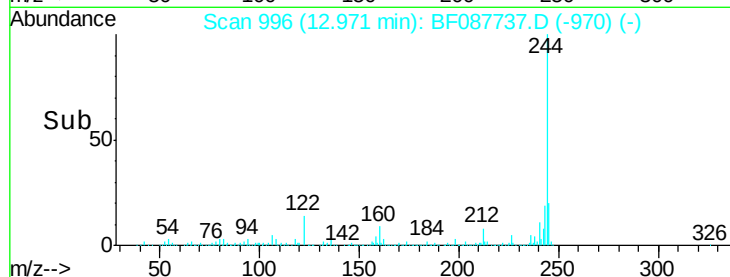
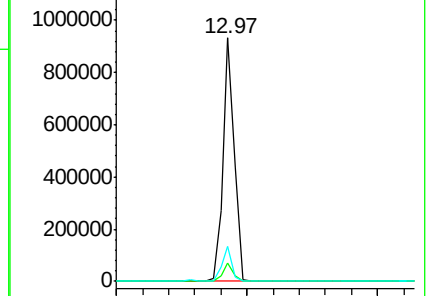
122 14.2 11.2 16.8



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: 12.49 ng

RT: 14.01 min Scan# 1087

Delta R.T. 0.00 min

Lab File: BF087737.D

Acq: 6 Jun 2016 5:50

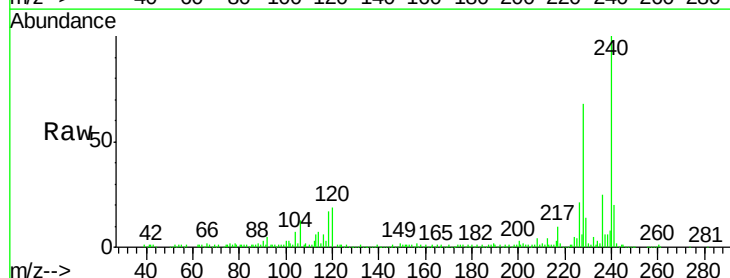
Tgt Ion:228 Resp: 248373

Ion Ratio Lower Upper

228 100

226 31.6 22.3 33.5

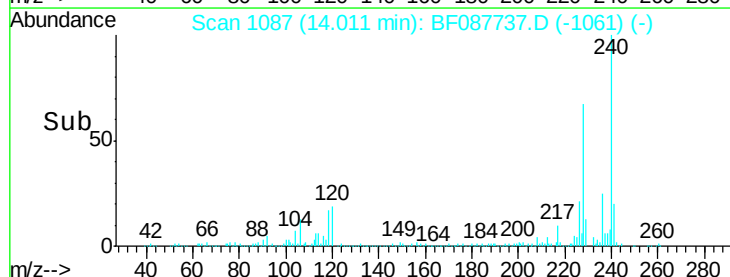
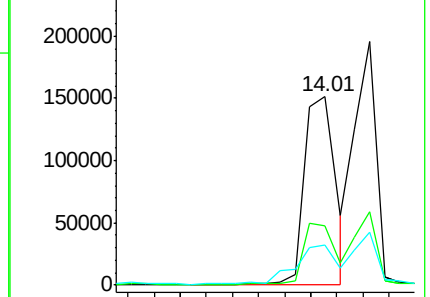
229 21.2 16.0 24.0

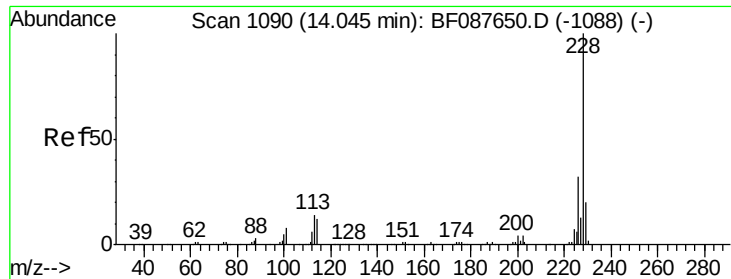


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 11.41 ng

RT: 14.05 min Scan# 1090

Delta R.T. 0.00 min

Lab File: BF087737.D

Acq: 6 Jun 2016 5:50

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1672(0-4)RE

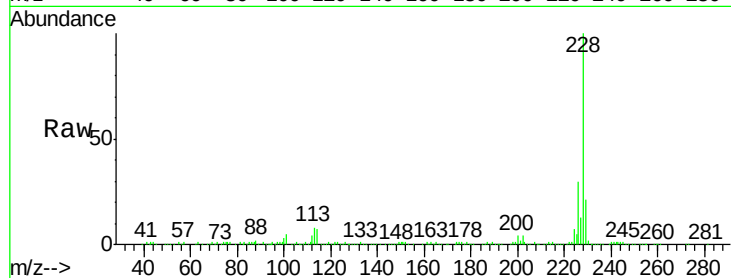
Tgt Ion:228 Resp: 225898

Ion Ratio Lower Upper

228 100

226 30.3 25.4 38.2

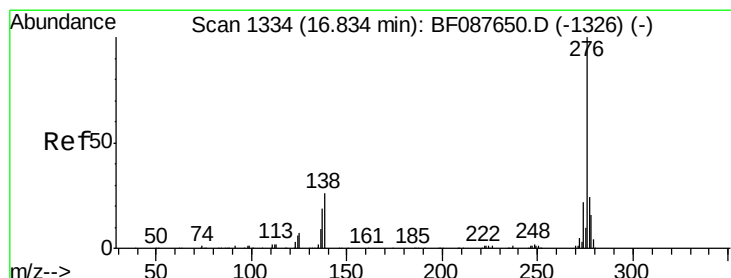
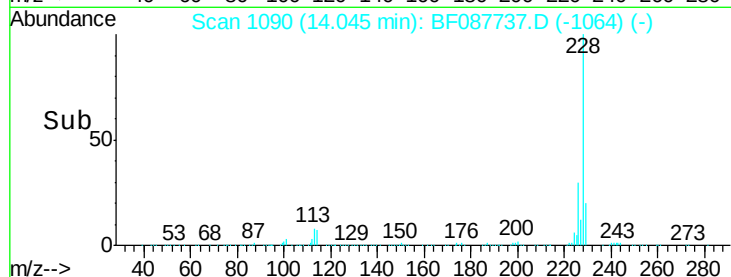
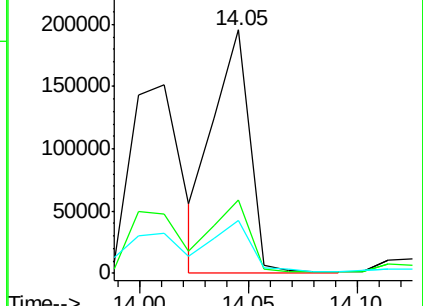
229 21.5 16.3 24.5



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: 8.54 ng

RT: 16.83 min Scan# 1334

Delta R.T. 0.00 min

Lab File: BF087737.D

Acq: 6 Jun 2016 5:50

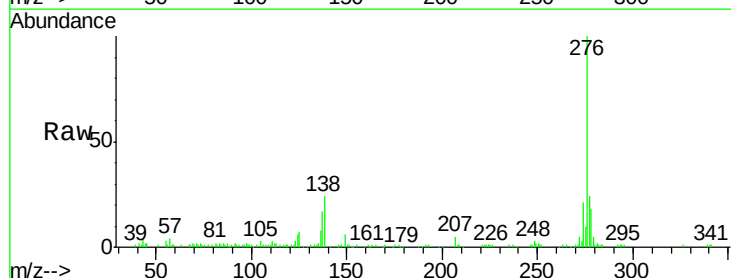
Tgt Ion:276 Resp: 139672

Ion Ratio Lower Upper

276 100

138 25.0 0.0 0.0#

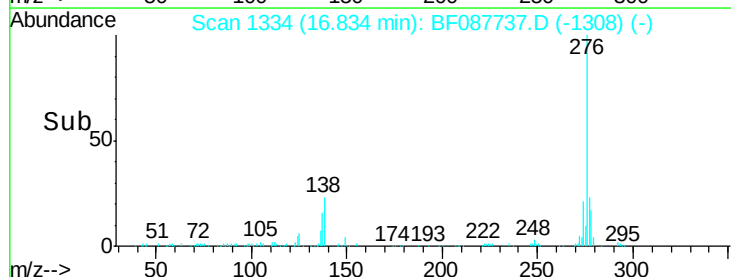
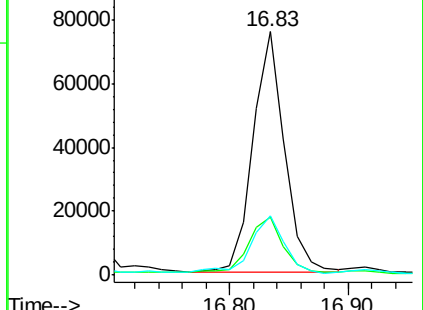
277 25.3 0.0 0.0#

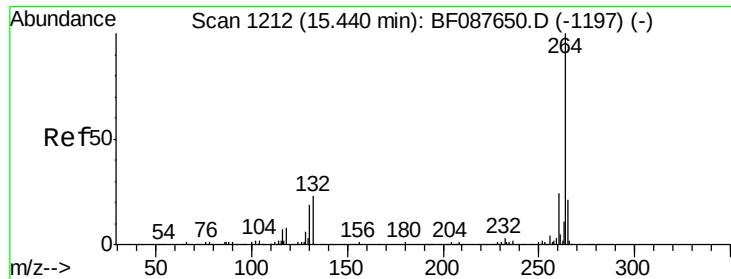


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

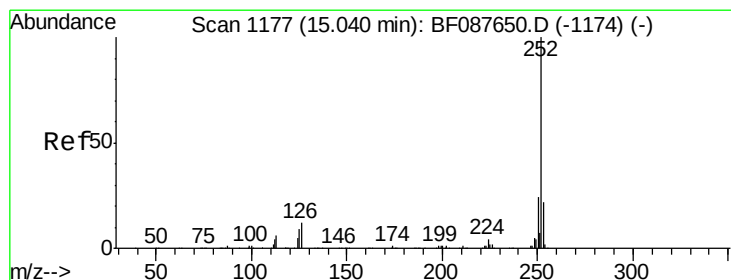
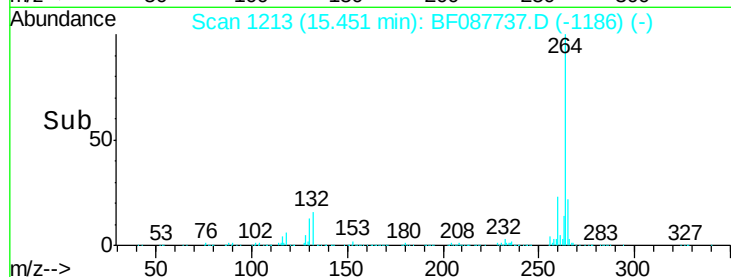
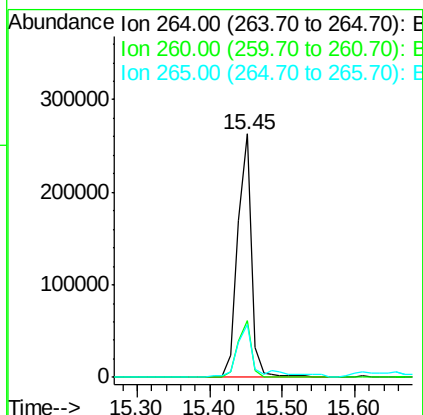
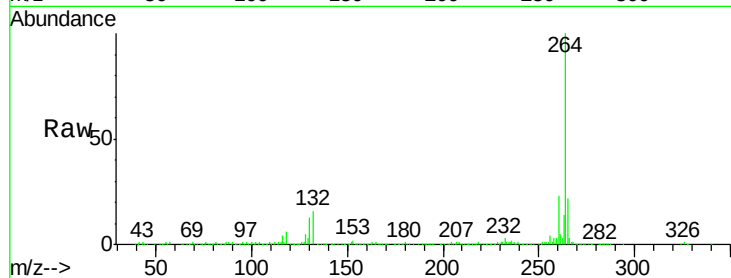




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.45 min Scan# 1213
Delta R.T. 0.01 min
Lab File: BF087737.D
Acq: 6 Jun 2016 5:50

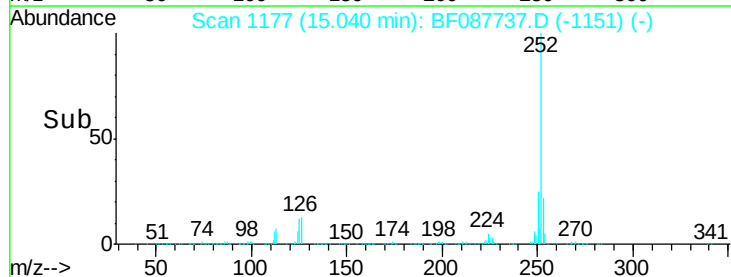
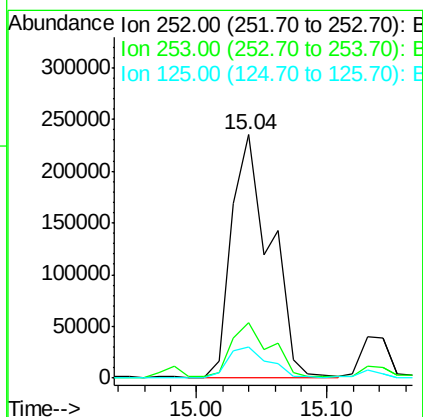
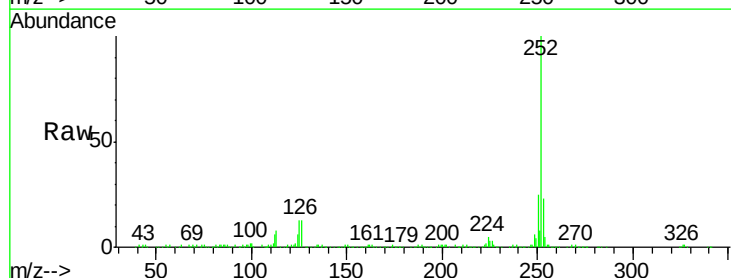
Instrument :
BNA_F
ClientSampleId :
CHS-STA-1672(0-4)RE

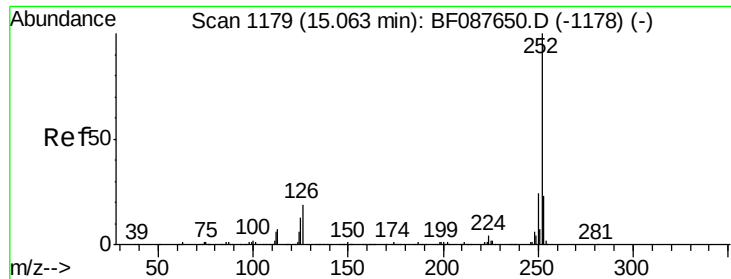
Tgt Ion:264 Resp: 346711
Ion Ratio Lower Upper
264 100
260 23.4 19.2 28.8
265 21.9 16.9 25.3



#87
Benzo(b)fluoranthene
Concen: 21.34 ng
RT: 15.04 min Scan# 1177
Delta R.T. 0.00 min
Lab File: BF087737.D
Acq: 6 Jun 2016 5:50

Tgt Ion:252 Resp: 481394
Ion Ratio Lower Upper
252 100
253 22.6 17.4 26.2
125 12.7 7.1 10.7#





#88

Benzo(k)fluoranthene

Concen: 25.65 ng

RT: 15.04 min Scan# 1177

Delta R.T. -0.02 min

Lab File: BF087737.D

Acq: 6 Jun 2016 5:50

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1672(0-4)RE

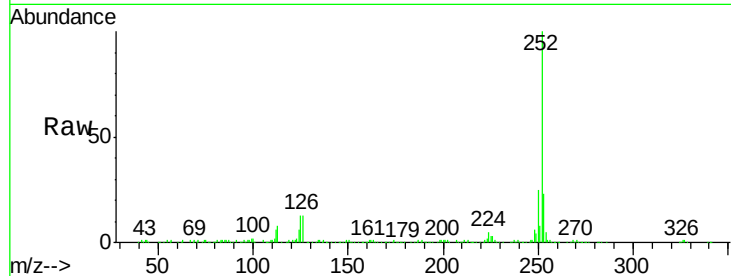
Tgt Ion:252 Resp: 481394

Ion Ratio Lower Upper

252 100

253 22.6 18.0 27.0

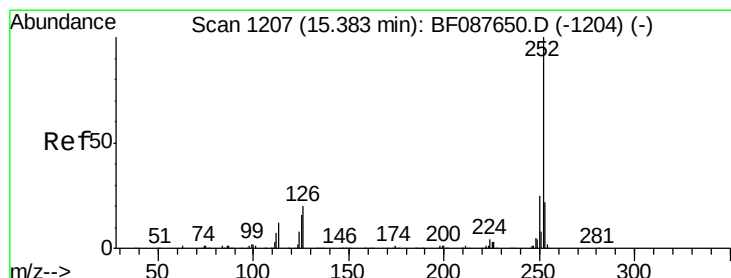
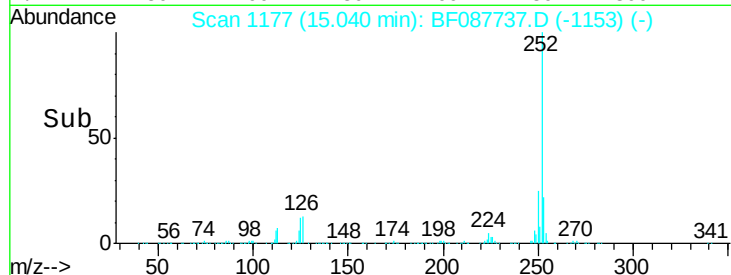
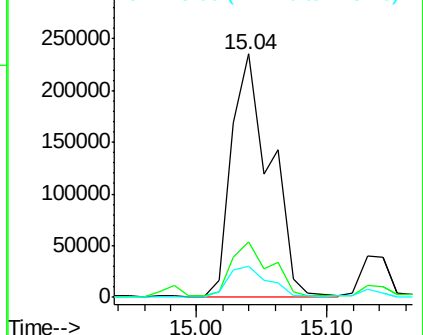
125 12.7 11.2 16.8



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: 9.90 ng

RT: 15.38 min Scan# 1207

Delta R.T. 0.00 min

Lab File: BF087737.D

Acq: 6 Jun 2016 5:50

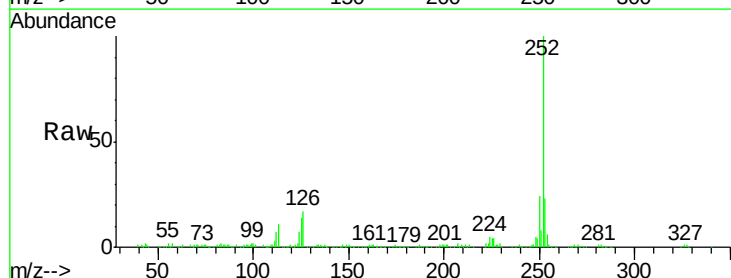
Tgt Ion:252 Resp: 187760

Ion Ratio Lower Upper

252 100

253 23.5 17.9 26.9

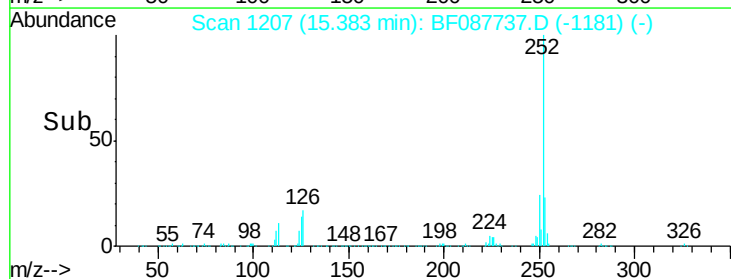
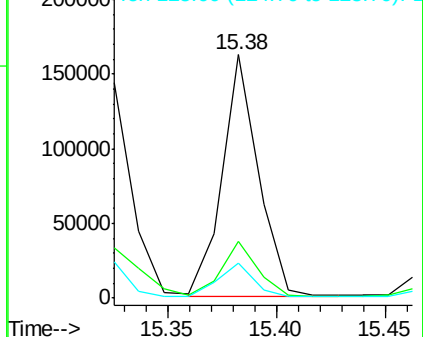
125 14.1 12.5 18.7

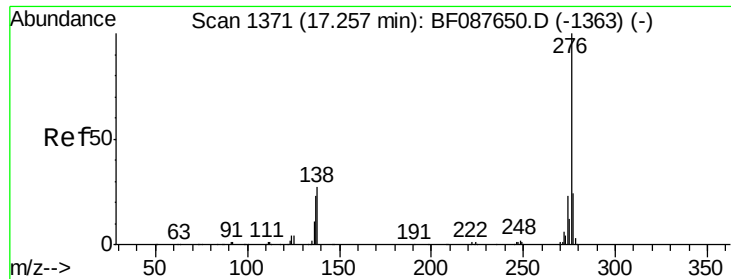


Abundance Ion 252.00 (251.70 to 252.70): E

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: 7.37 ng
 RT: 17.26 min Scan# 1371
 Delta R.T. 0.00 min
 Lab File: BF087737.D
 Acq: 6 Jun 2016 5:50

Instrument :
 BNA_F
 ClientSampleId :
 CHS-STA-1672(0-4)RE

Tgt Ion: 276 Resp: 120000
 Ion Ratio Lower Upper
 276 100
 277 24.6 18.9 28.3
 138 21.4 21.4 32.2#

