

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081517\
 Data File : BF097725.D
 Acq On : 16 Aug 2017 7:47
 Operator : SJ/JU
 Sample : I4703-09 10X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-H9-BASE

Quant Time: Aug 16 08:39:58 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 15 13:25:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	132224	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	493345	20.00	ng	0.00
38) Acenaphthene-d10	9.82	164	190162	20.00	ng	0.00
63) Phenanthrene-d10	11.30	188	283947	20.00	ng	0.00
75) Chrysene-d12	13.94	240	282413	20.00	ng	0.00
86) Perylene-d12	15.37	264	215803	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.37	112	89676	10.32	ng	-0.01
7) Phenol-d6	6.40	99	119240	10.10	ng	-0.01
23) Nitrobenzene-d5	7.34	82	62984	6.94	ng	-0.01
41) 2,4,6-Tribromophenol	10.60	330	11411	6.92	ng	0.00
44) 2-Fluorobiphenyl	9.14	172	97477	7.53	ng	0.00
78) Terphenyl-d14	12.89	244	57272	4.23	ng	0.00

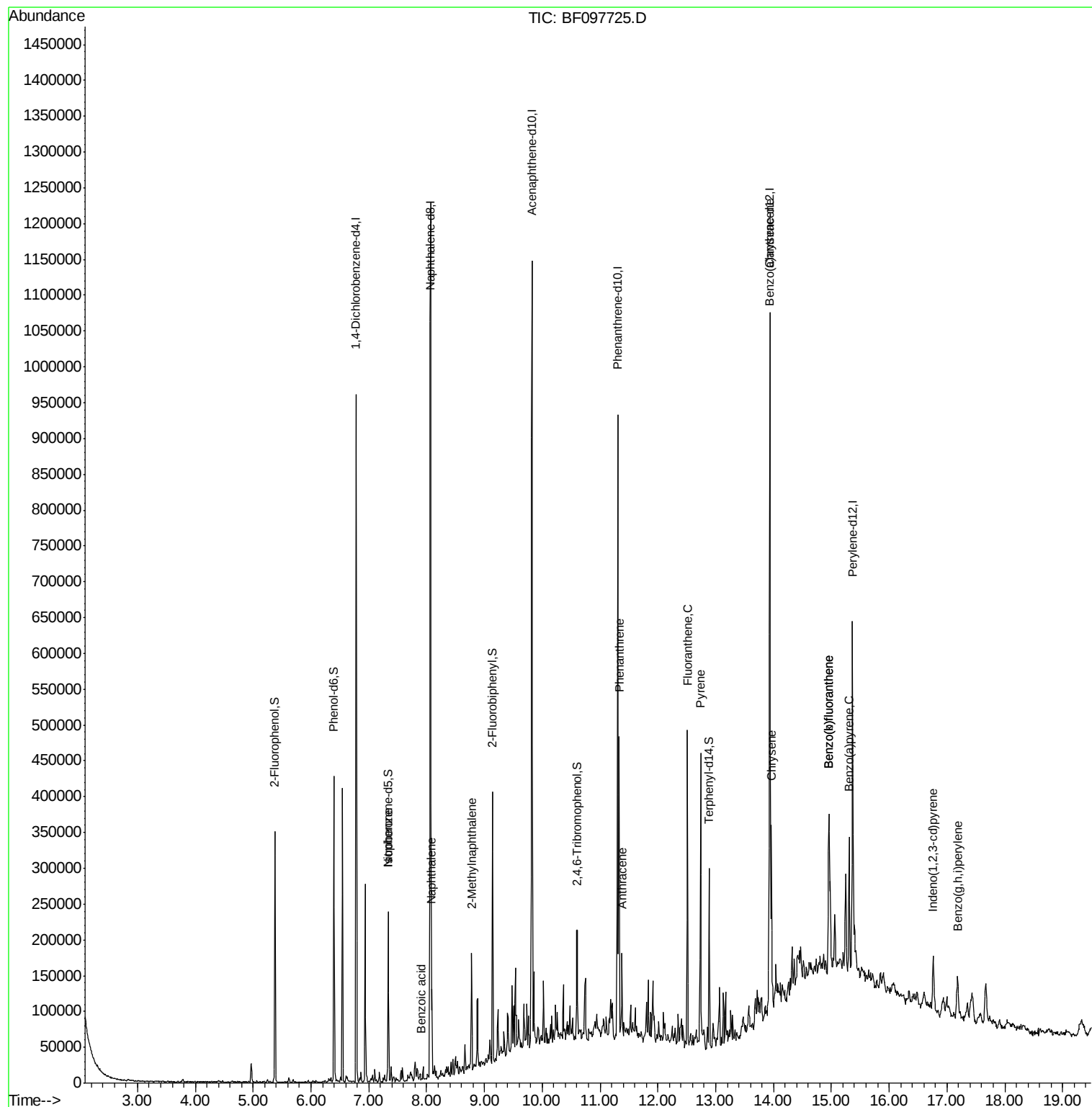
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
25) Isophorone	7.34	82	62809	3.33	ng	# 67
31) Naphthalene	8.09	128	60402	2.36	ng	99
32) Benzoic acid	7.92	122	227	6.44	ng	92
37) 2-Methylnaphthalene	8.78	142	36064	2.30	ng	98
70) Phenanthrene	11.33	178	137248	9.07	ng	99
71) Anthracene	11.37	178	37038	2.41	ng	99
74) Fluoranthene	12.51	202	157835	9.99	ng	98
77) Pyrene	12.74	202	154753	6.70	ng	97
80) Benzo(a)anthracene	13.93	228	90101	5.32	ng	96
82) Chrysene	13.96	228	83122	4.94	ng	96
85) Indeno(1,2,3-cd)pyrene	16.76	276	46108	3.72	ng	91
87) Benzo(b)fluoranthene	14.96	252	155101	11.40	ng	98
88) Benzo(k)fluoranthene	14.96	252	155101	12.14	ng	97
89) Benzo(a)pyrene	15.31	252	83709	6.95	ng	99
91) Benzo(a,h,i)perylene	17.18	276	44318	4.33	ng	95

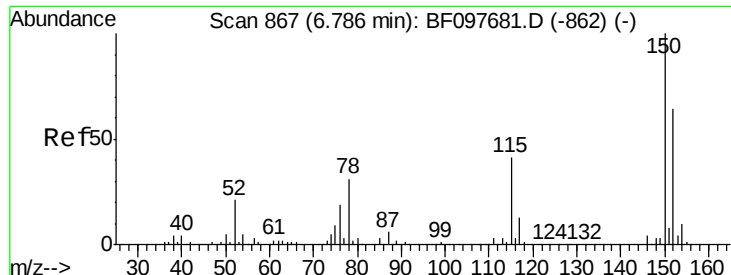
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.79 min Scan# 799

Delta R.T. 0.00 min

Lab File: BF097725.D

Acq: 16 Aug 2017 7:47

Instrument :

BNA_F

ClientSampleId :

E2-H9-BASE

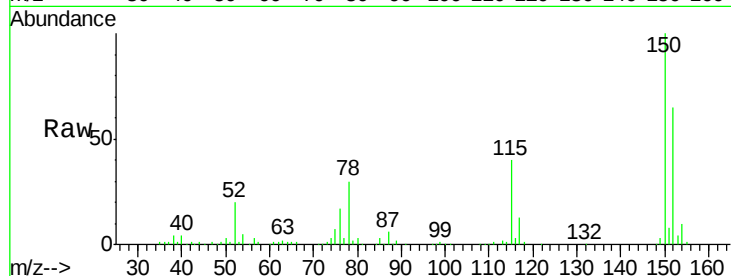
Tot Ion:152 Resp: 132224

Ion Ratio Lower Upper

152 100

150 153.5 126.2 189.2

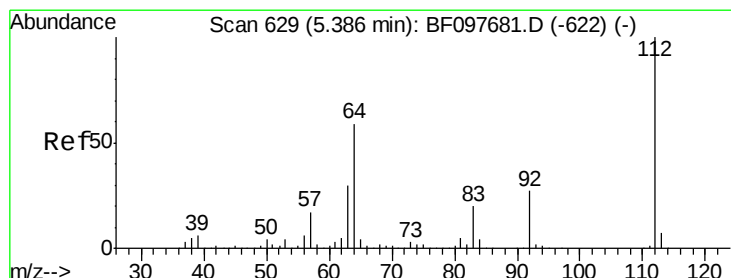
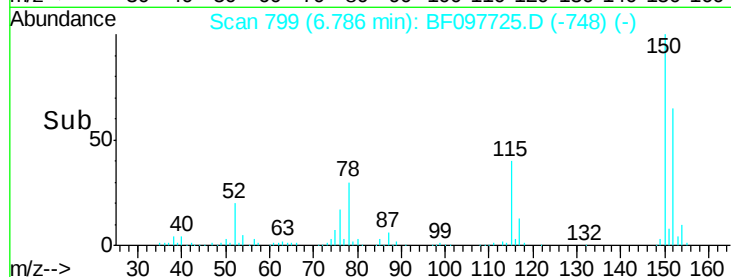
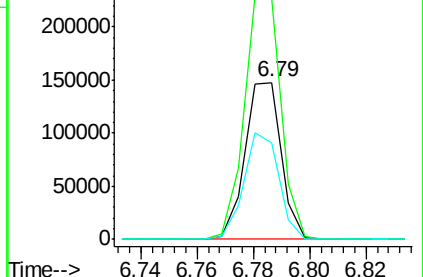
115 61.3 52.2 78.2



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: 10.32 ng

RT: 5.37 min Scan# 559

Delta R.T. -0.01 min

Lab File: BF097725.D

Acq: 16 Aug 2017 7:47

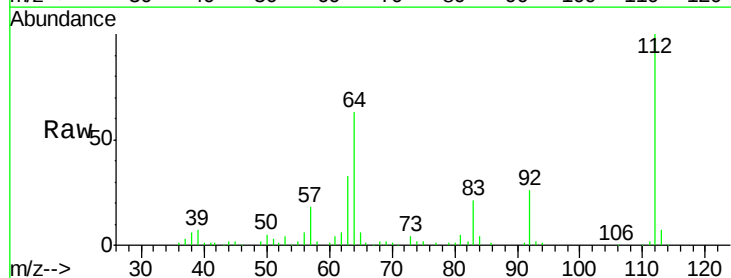
Tgt Ion:112 Resp: 89676

Ion Ratio Lower Upper

112 100

64 62.9 46.0 69.0

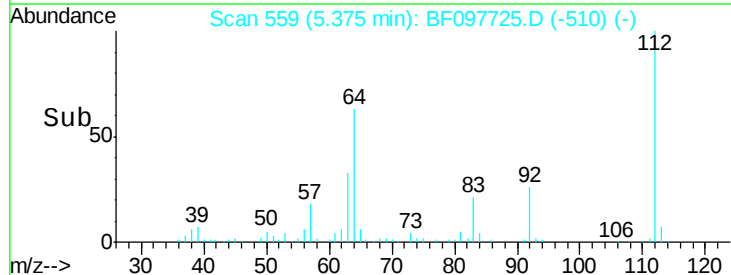
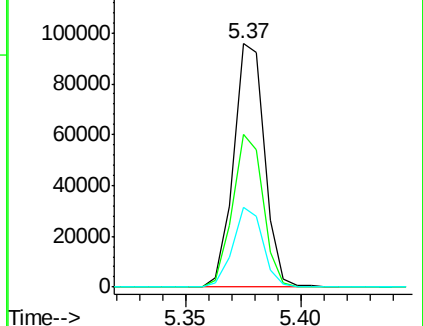
63 32.9 23.4 35.0

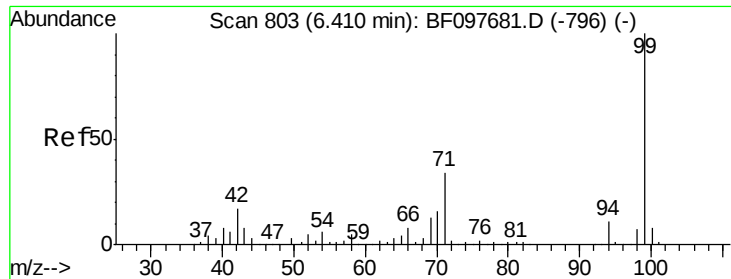


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 10.10 ng

RT: 6.40 min Scan# 733

Delta R.T. -0.01 min

Lab File: BF097725.D

Acq: 16 Aug 2017 7:47

Instrument :

BNA_F

ClientSampleId :

E2-H9-BASE

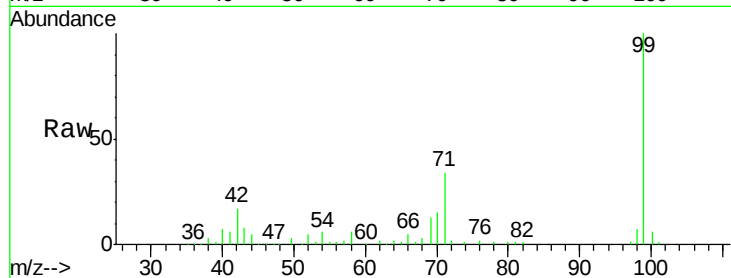
Tot Ion: 99 Resp: 119240

Ion Ratio Lower Upper

99 100

42 16.9 13.5 20.3

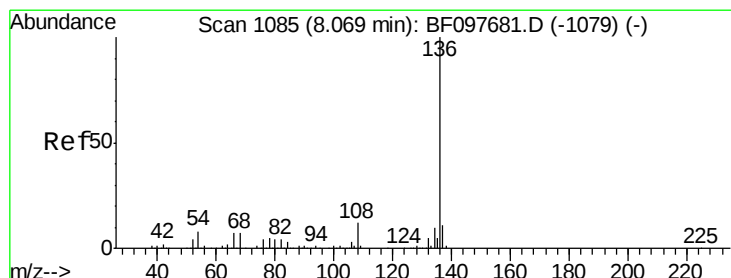
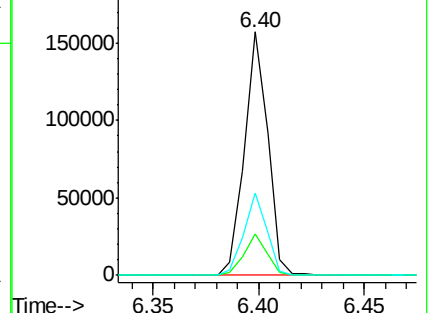
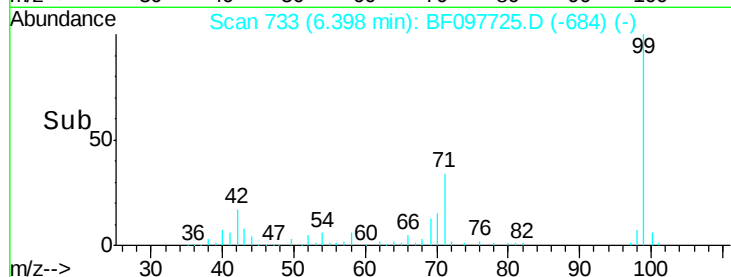
71 33.8 24.5 36.7



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.07 min Scan# 1017

Delta R.T. 0.00 min

Lab File: BF097725.D

Acq: 16 Aug 2017 7:47

Tgt Ion: 136 Resp: 493345

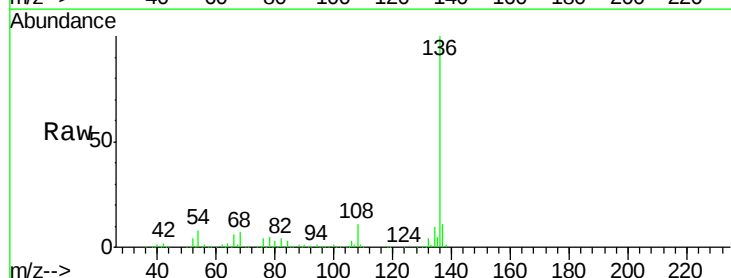
Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 7.6 4.9 7.3#

68 6.8 4.1 6.1#

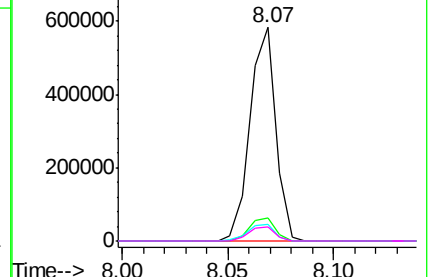
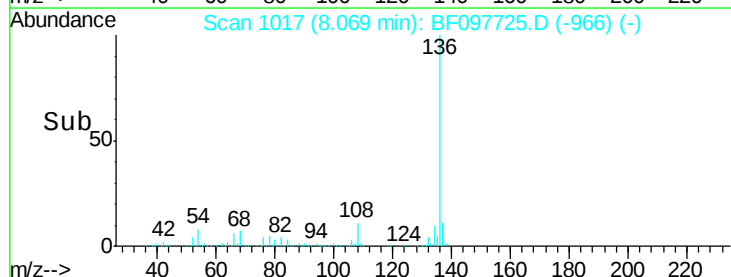


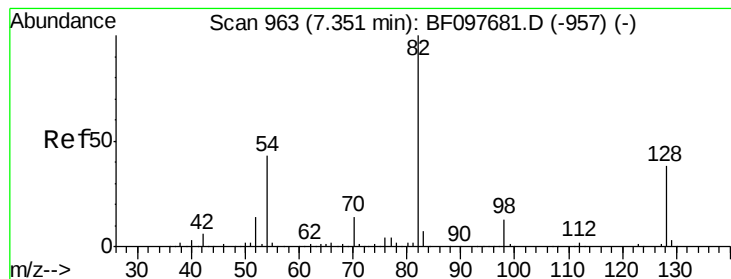
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 6.94 ng

RT: 7.34 min Scan# 893

Delta R.T. -0.01 min

Lab File: BF097725.D

Acq: 16 Aug 2017 7:47

Instrument :

BNA_F

ClientSampleId :

E2-H9-BASE

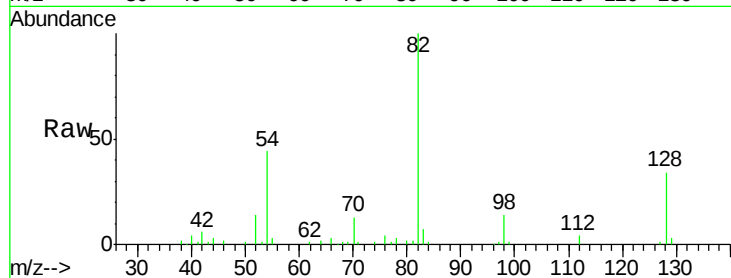
Tot Ion: 82 Resp: 62984

Ion Ratio Lower Upper

82 100

128 33.8 34.0 51.0#

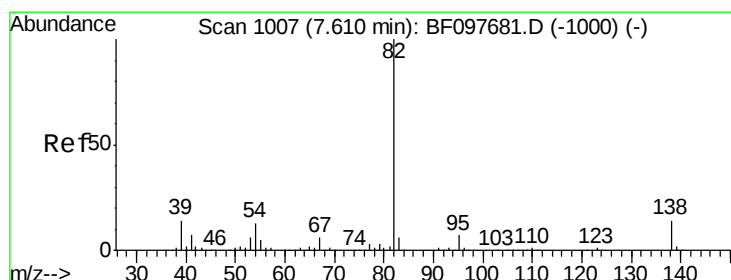
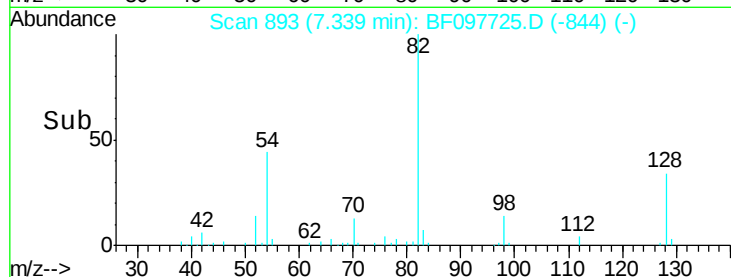
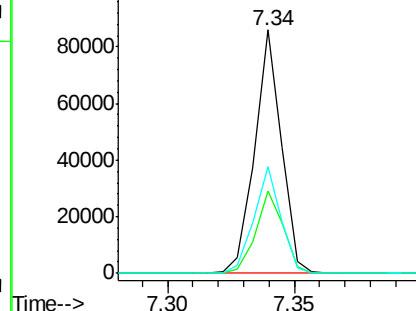
54 44.1 42.2 63.2



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: 3.33 ng

RT: 7.34 min Scan# 893

Delta R.T. -0.27 min

Lab File: BF097725.D

Acq: 16 Aug 2017 7:47

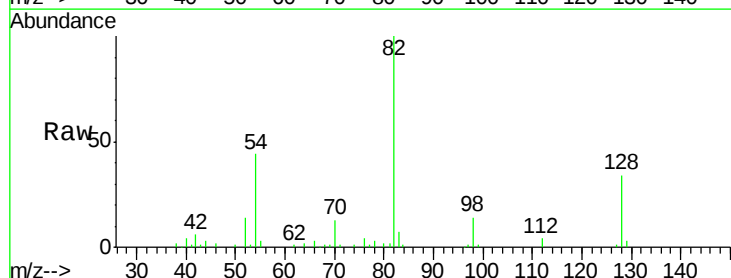
Tgt Ion: 82 Resp: 62809

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

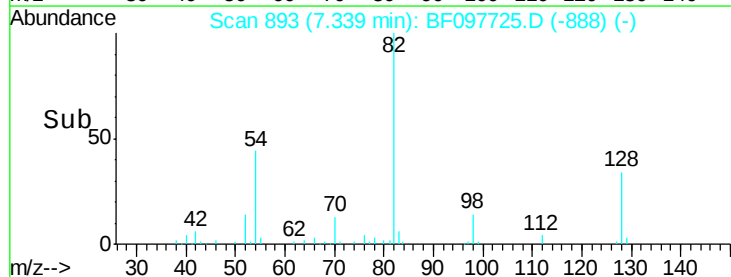
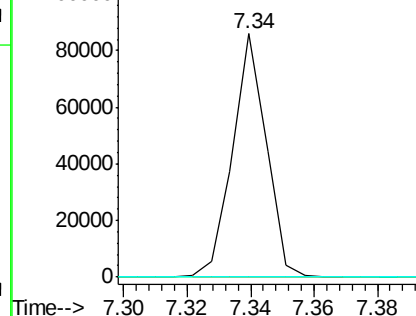
138 0.0 13.1 19.7#

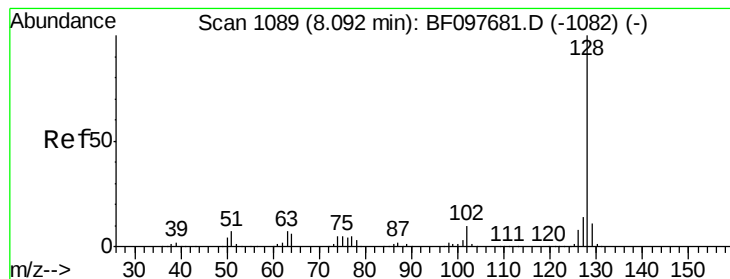


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0





#31

Naphthalene

Concen: 2.36 ng

RT: 8.09 min Scan# 1020

Delta R.T. -0.01 min

Lab File: BF097725.D

Acq: 16 Aug 2017 7:47

Instrument :

BNA_F

ClientSampleId :

E2-H9-BASE

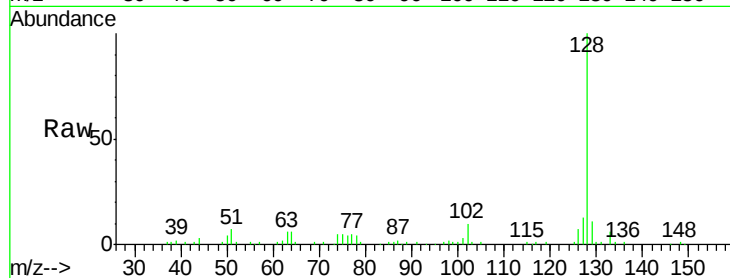
Tot Ion:128 Resp: 60402

Ion Ratio Lower Upper

128 100

129 11.2 9.0 13.6

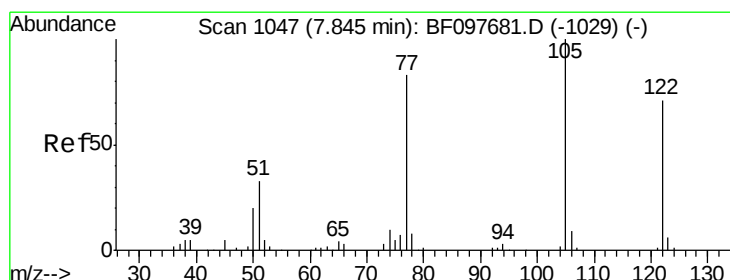
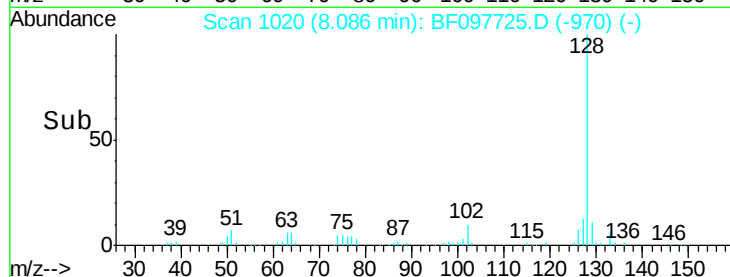
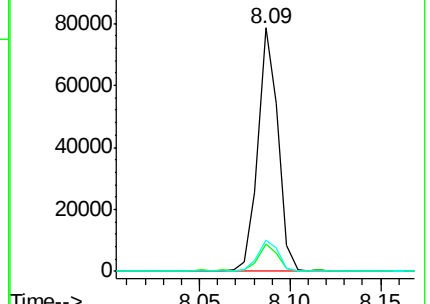
127 12.9 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 6.44 ng

RT: 7.92 min Scan# 991

Delta R.T. 0.07 min

Lab File: BF097725.D

Acq: 16 Aug 2017 7:47

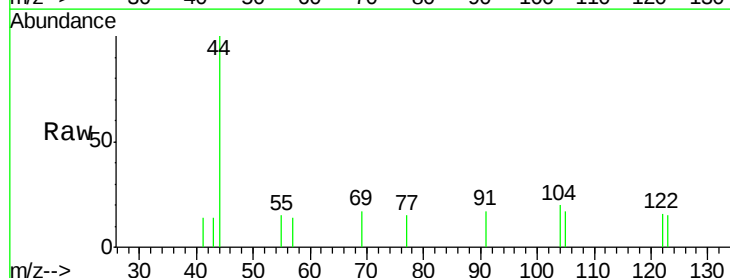
Tgt Ion:122 Resp: 227

Ion Ratio Lower Upper

122 100

105 109.0 103.3 143.3

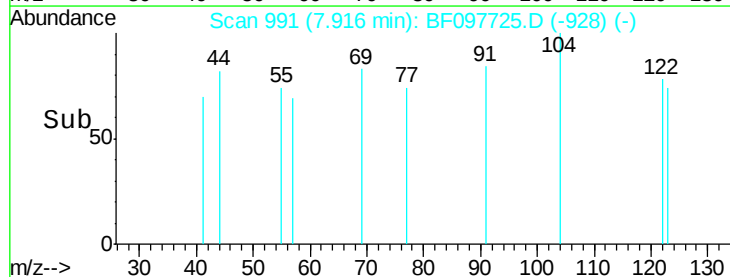
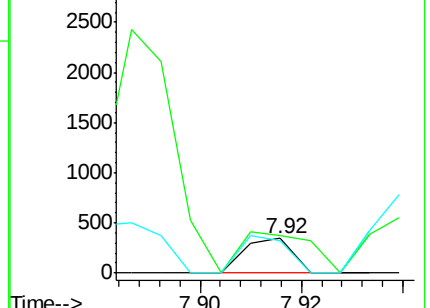
77 95.0 73.7 113.7

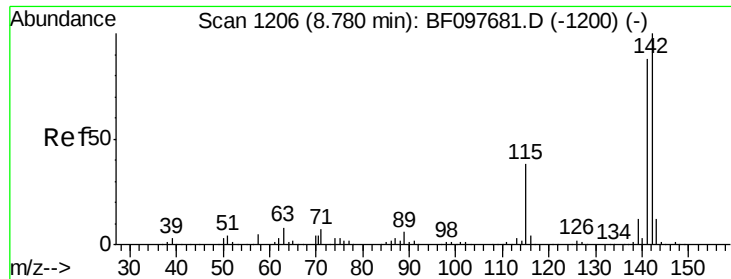


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0

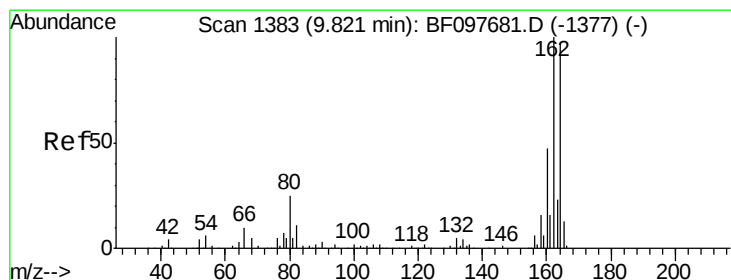
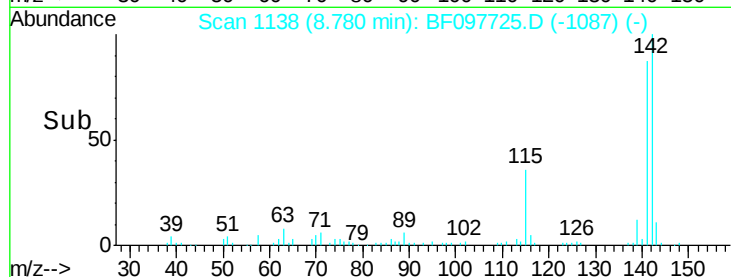
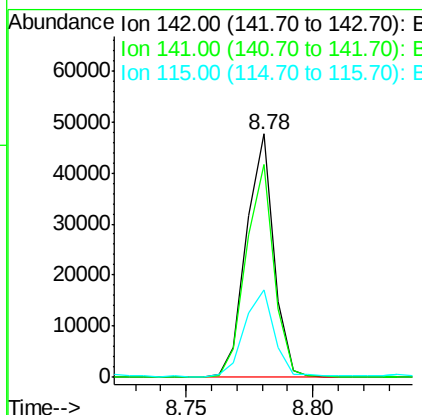
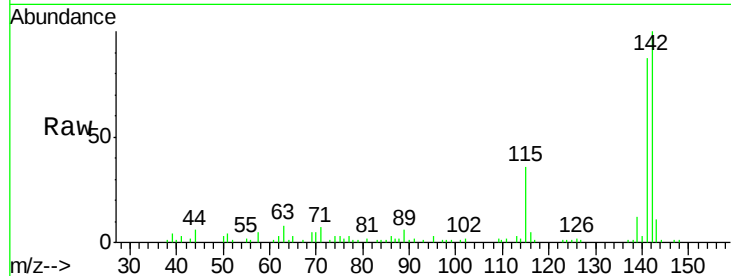




#37
2-Methylnaphthalene
Concen: 2.30 ng
RT: 8.78 min Scan# 1138
Delta R.T. 0.00 min
Lab File: BF097725.D
Acq: 16 Aug 2017 7:47

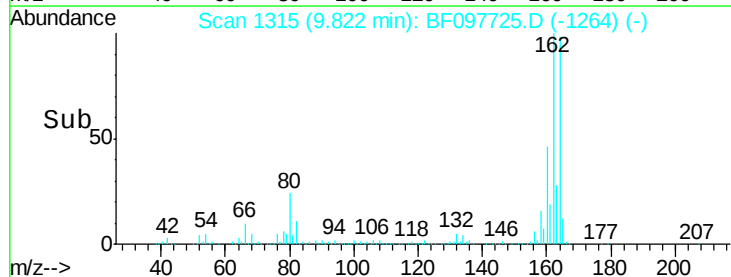
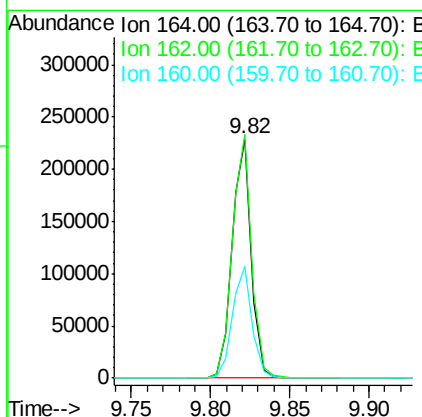
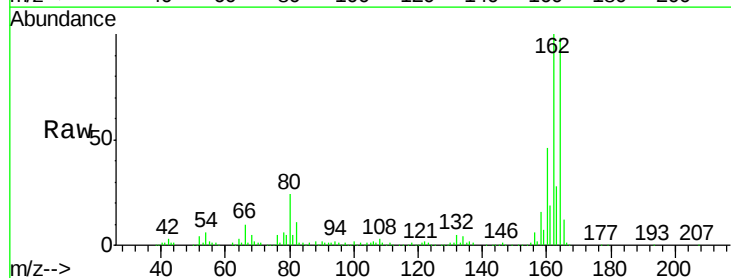
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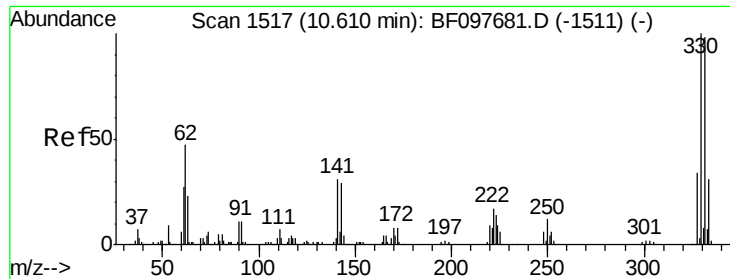
Tot Ion:142 Resp: 36064
Ion Ratio Lower Upper
142 100
141 87.5 71.3 106.9
115 36.1 27.1 40.7



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.82 min Scan# 1315
Delta R.T. 0.00 min
Lab File: BF097725.D
Acq: 16 Aug 2017 7:47

Tgt Ion:164 Resp: 190162
Ion Ratio Lower Upper
164 100
162 102.1 82.6 123.8
160 47.0 36.2 54.2

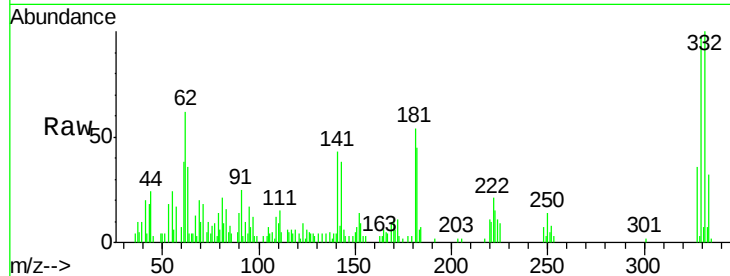




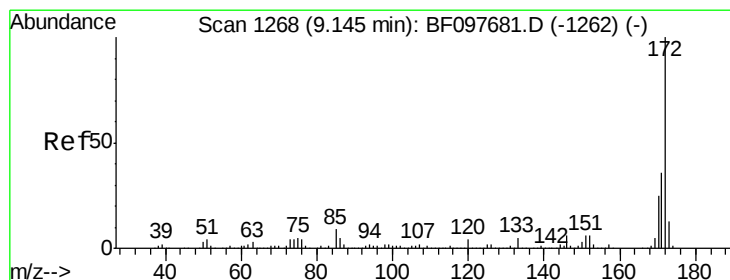
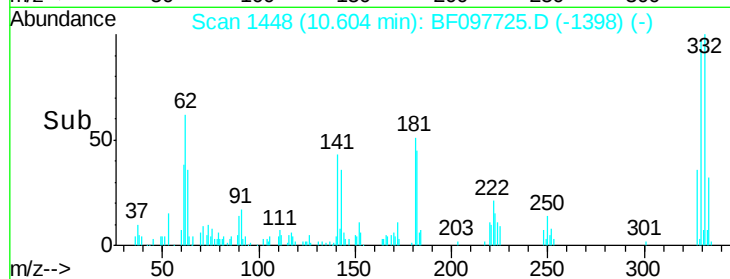
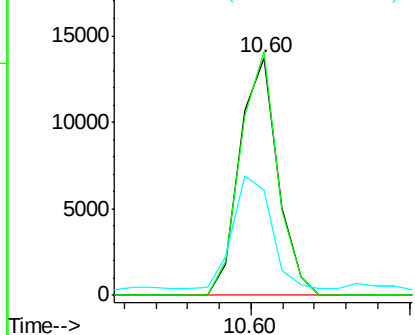
#41
 2,4,6-Tribromophenol
 Concen: 6.92 ng
 RT: 10.60 min Scan# 1448
 Delta R.T. -0.01 min
 Lab File: BF097725.D
 Acq: 16 Aug 2017 7:47

Instrument :
 BNA_F
 ClientSampleId :
 E2-H9-BASE

Tot Ion:330 Resp: 11411
 Ion Ratio Lower Upper
 330 100
 332 99.9 76.6 115.0
 141 50.4 31.4 47.2#

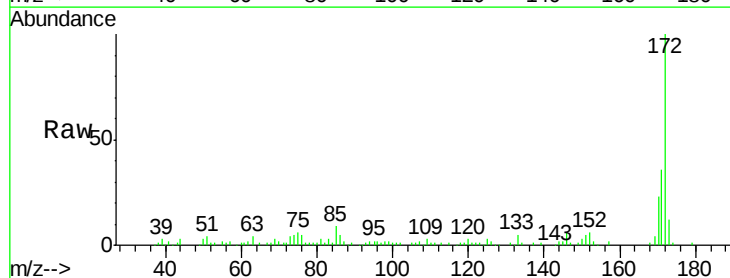


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

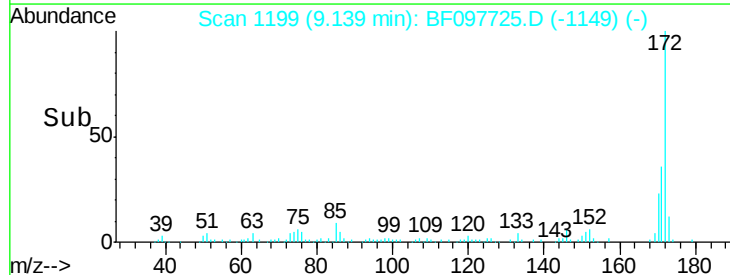
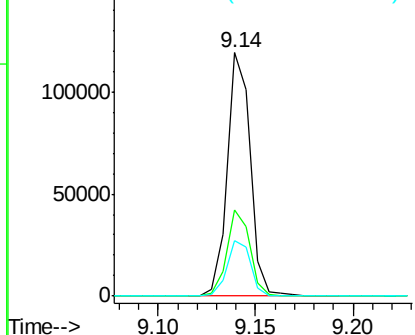


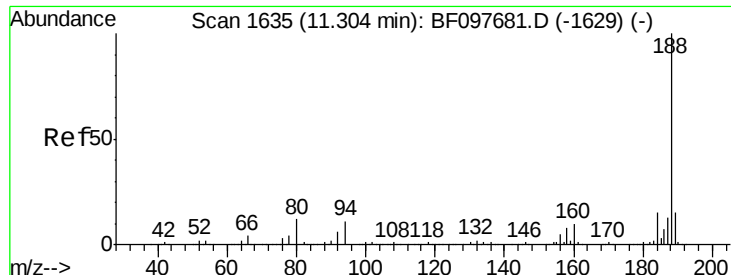
#44
 2-Fluorobiphenyl
 Concen: 7.53 ng
 RT: 9.14 min Scan# 1199
 Delta R.T. -0.01 min
 Lab File: BF097725.D
 Acq: 16 Aug 2017 7:47

Tgt Ion:172 Resp: 97477
 Ion Ratio Lower Upper
 172 100
 171 35.6 29.6 44.4
 170 22.9 19.8 29.8



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





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.30 min Scan# 1567

Delta R.T. 0.00 min

Lab File: BF097725.D

Acq: 16 Aug 2017 7:47

Instrument :

BNA_F

ClientSampleId :

E2-H9-BASE

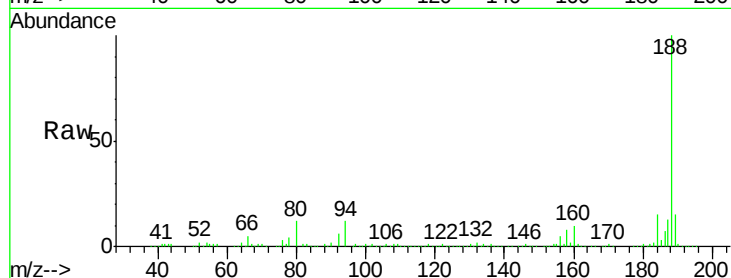
Tot Ion:188 Resp: 283947

Ion Ratio Lower Upper

188 100

94 11.9 9.4 14.2

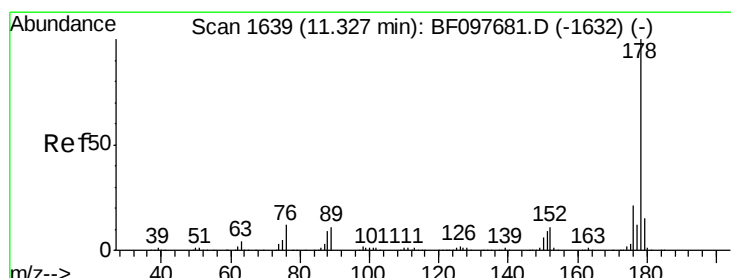
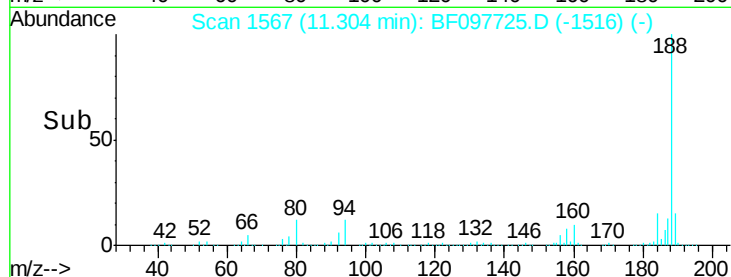
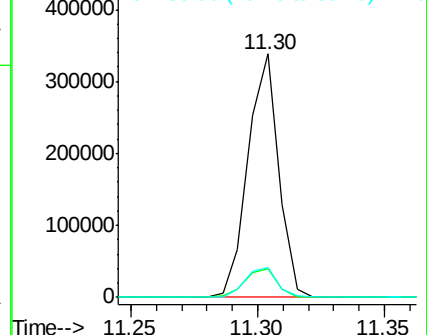
80 12.1 10.2 15.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 9.07 ng

RT: 11.33 min Scan# 1571

Delta R.T. 0.00 min

Lab File: BF097725.D

Acq: 16 Aug 2017 7:47

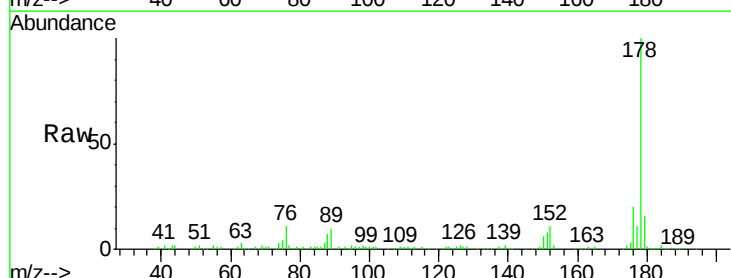
Tgt Ion:178 Resp: 137248

Ion Ratio Lower Upper

178 100

176 20.0 16.2 24.4

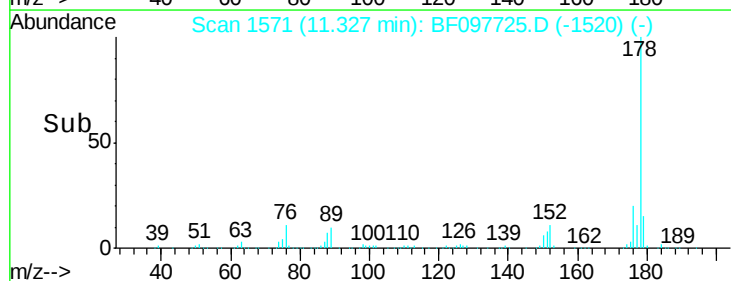
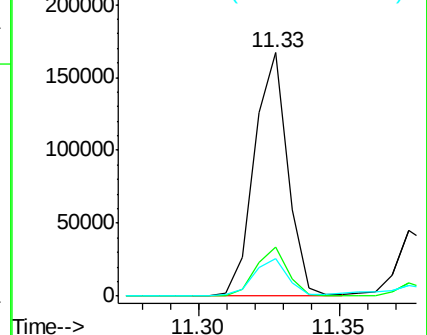
179 15.7 12.6 19.0

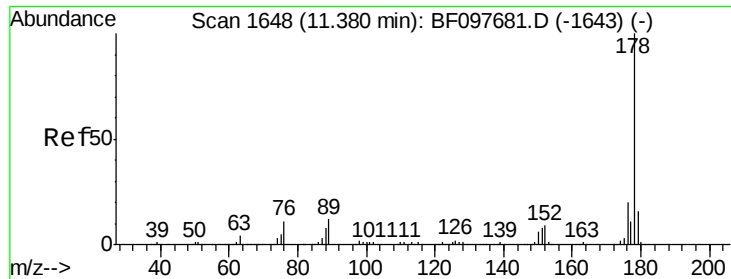


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

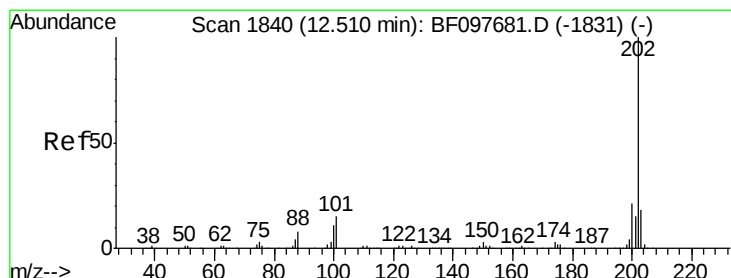
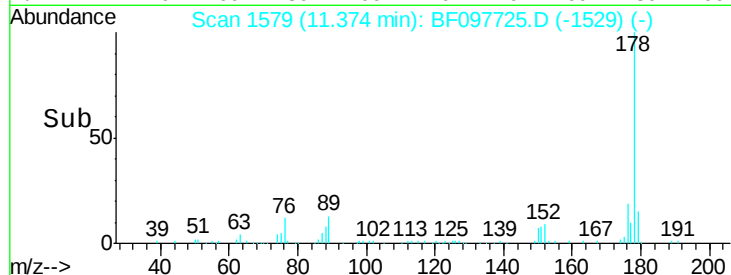
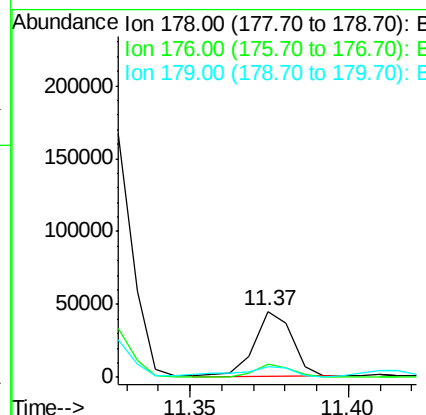
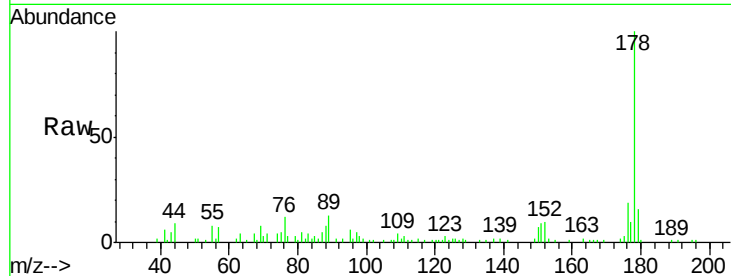




#71
 Anthracene
 Concen: 2.41 ng
 RT: 11.37 min Scan# 1579
 Delta R.T. -0.01 min
 Lab File: BF097725.D
 Acq: 16 Aug 2017 7:47

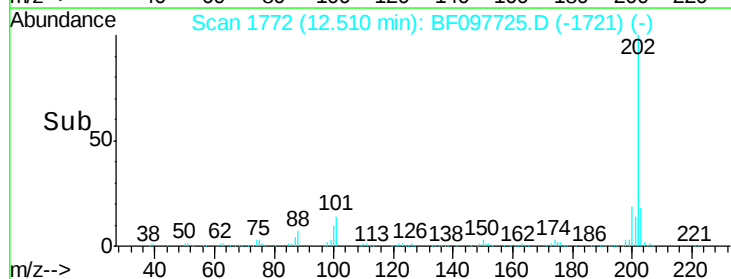
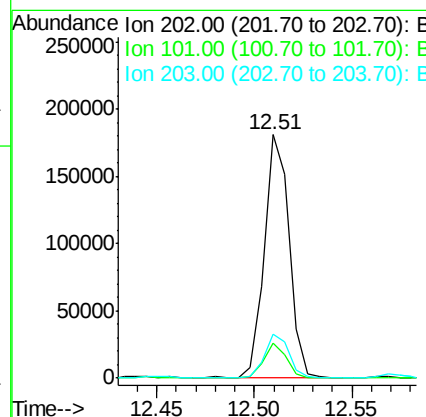
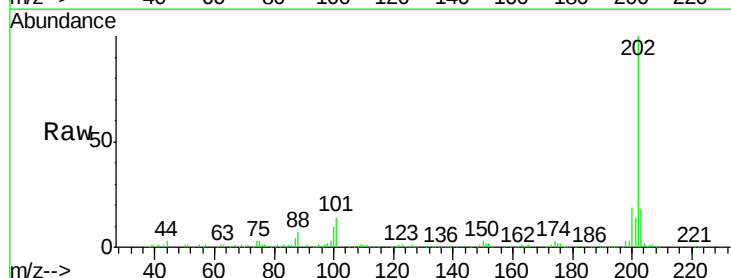
Instrument :
 BNA_F
 ClientSampleId :
 E2-H9-BASE

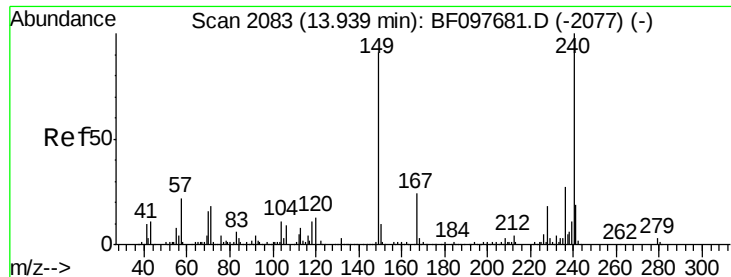
Tot Ion:178 Resp: 37038
 Ion Ratio Lower Upper
 178 100
 176 19.4 15.8 23.8
 179 16.2 12.7 19.1



#74
 Fluoranthene
 Concen: 9.99 ng
 RT: 12.51 min Scan# 1772
 Delta R.T. 0.00 min
 Lab File: BF097725.D
 Acq: 16 Aug 2017 7:47

Tgt Ion:202 Resp: 157835
 Ion Ratio Lower Upper
 202 100
 101 14.5 0.0 33.2
 203 17.9 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.94 min Scan# 2015

Delta R.T. 0.00 min

Lab File: BF097725.D

Acq: 16 Aug 2017 7:47

Instrument :

BNA_F

ClientSampleId :

E2-H9-BASE

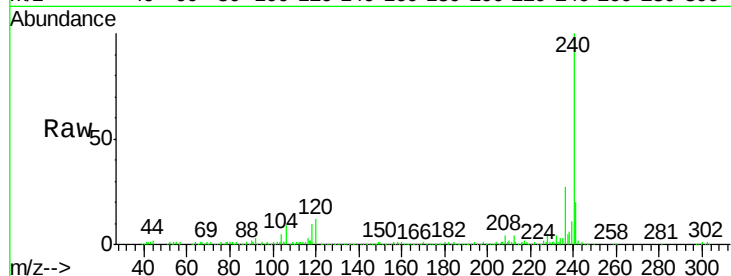
Tot Ion:240 Resp: 282413

Ion Ratio Lower Upper

240 100

120 11.8 5.8 8.8#

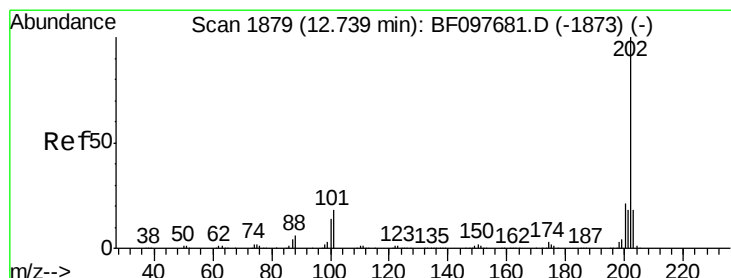
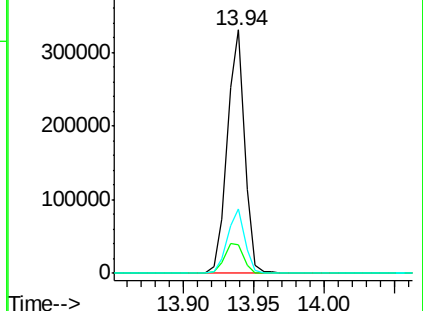
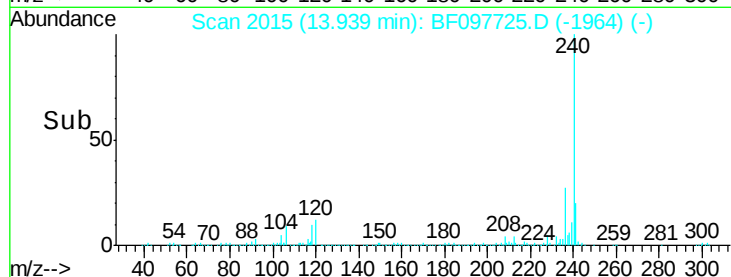
236 26.5 20.5 30.7



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: 6.70 ng

RT: 12.74 min Scan# 1811

Delta R.T. 0.00 min

Lab File: BF097725.D

Acq: 16 Aug 2017 7:47

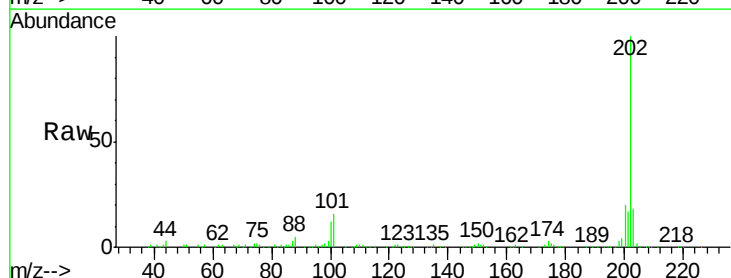
Tgt Ion:202 Resp: 154753

Ion Ratio Lower Upper

202 100

200 20.1 17.6 26.4

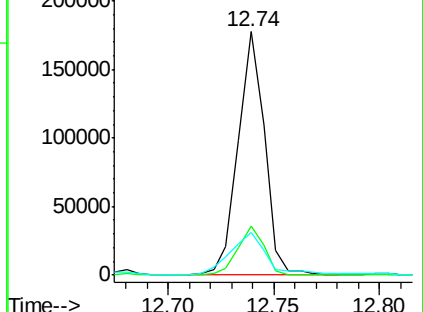
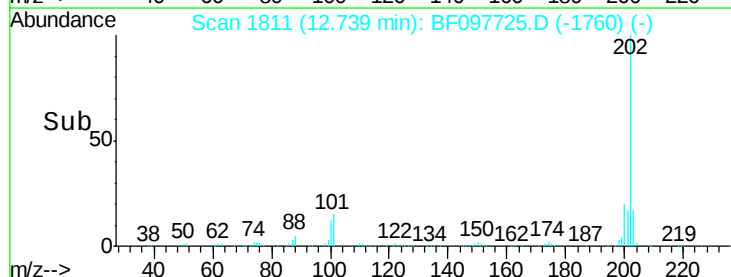
203 17.6 14.4 21.6

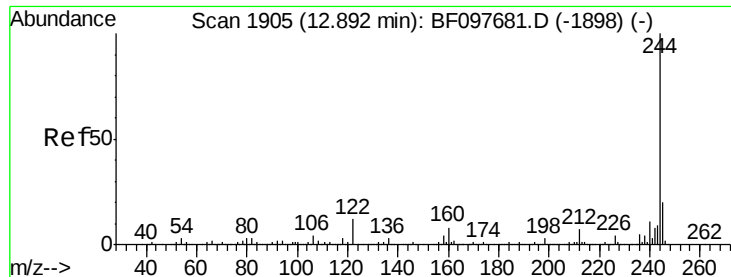


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 4.23 ng

RT: 12.89 min Scan# 1836

Delta R.T. -0.01 min

Lab File: BF097725.D

Acq: 16 Aug 2017 7:47

Instrument :

BNA_F

ClientSampleId :

E2-H9-BASE

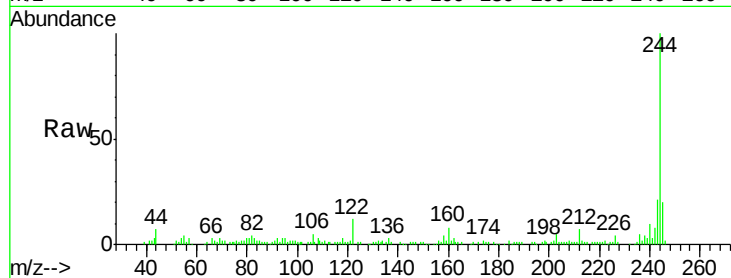
Tot Ion:244 Resp: 57272

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

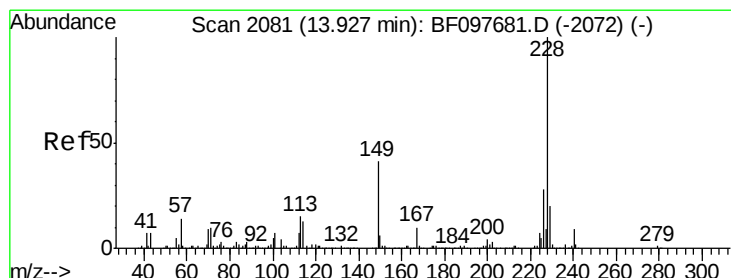
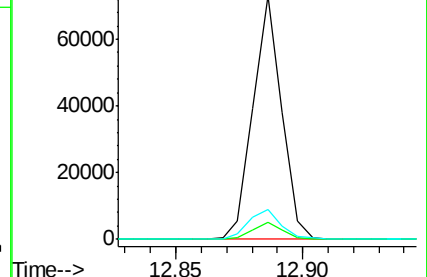
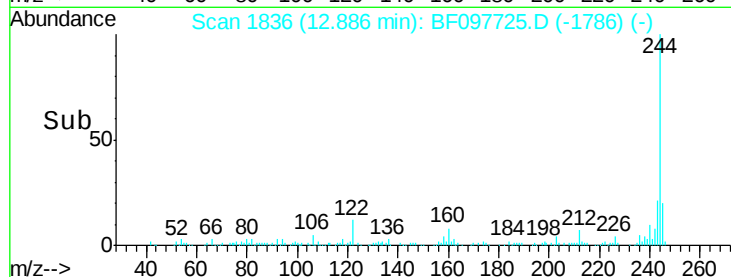
122 12.3 10.3 15.5



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: 5.32 ng

RT: 13.93 min Scan# 2013

Delta R.T. 0.00 min

Lab File: BF097725.D

Acq: 16 Aug 2017 7:47

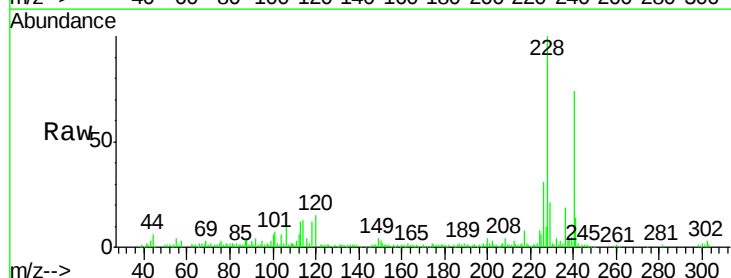
Tgt Ion:228 Resp: 90101

Ion Ratio Lower Upper

228 100

226 31.3 22.6 33.8

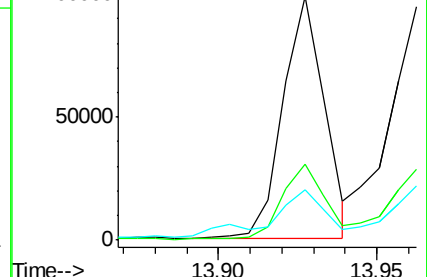
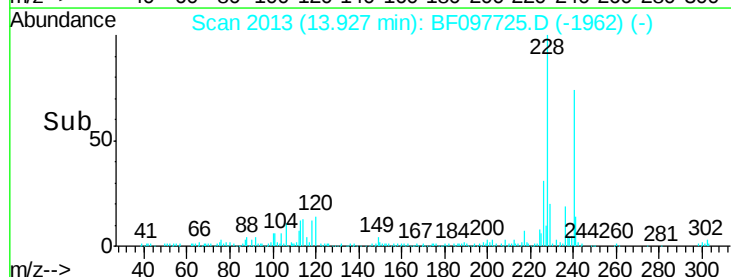
229 20.8 16.3 24.5

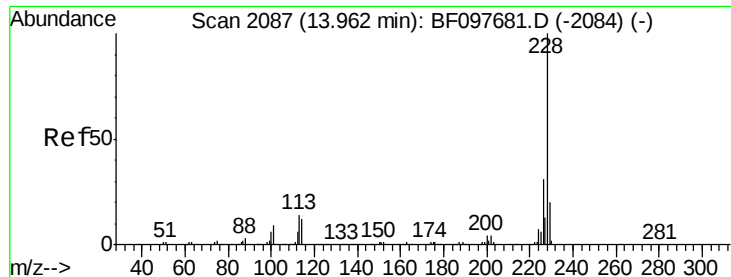


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 4.94 ng

RT: 13.96 min Scan# 2019

Delta R.T. 0.00 min

Lab File: BF097725.D

Acq: 16 Aug 2017 7:47

Instrument :

BNA_F

ClientSampleId :

E2-H9-BASE

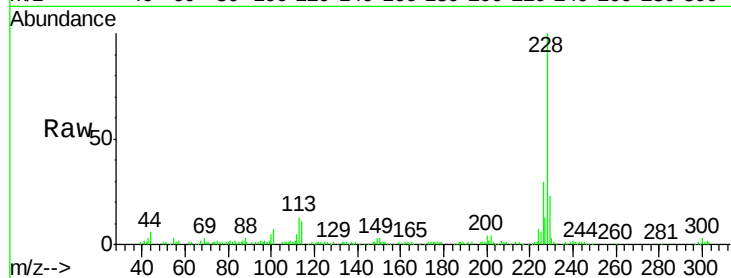
Tot Ion:228 Resp: 83122

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

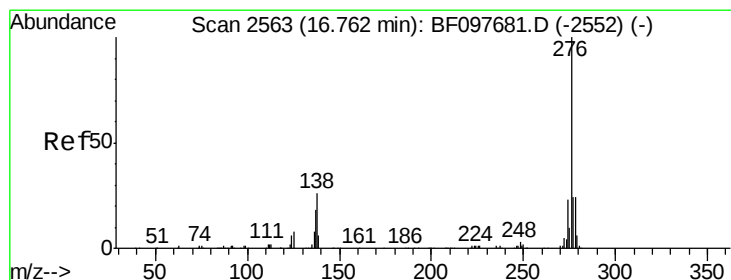
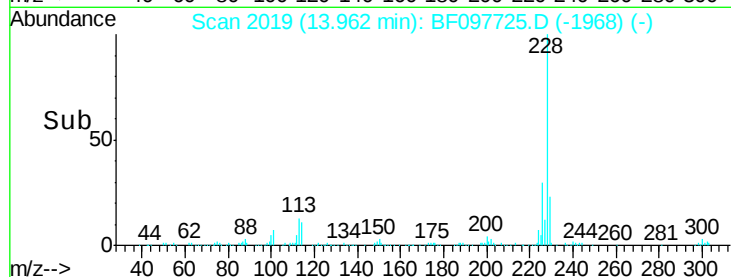
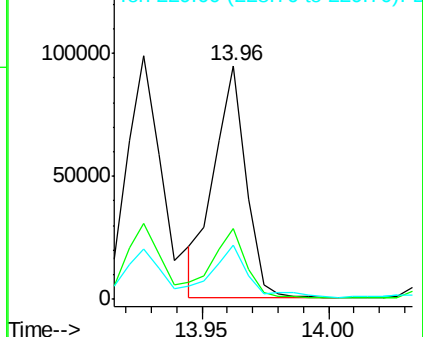
229 23.2 15.8 23.6



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: 3.72 ng

RT: 16.76 min Scan# 2495

Delta R.T. 0.00 min

Lab File: BF097725.D

Acq: 16 Aug 2017 7:47

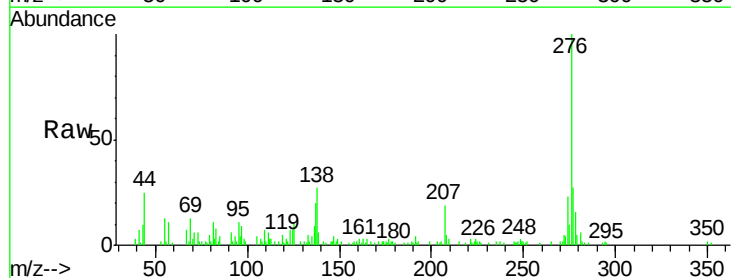
Tgt Ion:276 Resp: 46108

Ion Ratio Lower Upper

276 100

138 28.3 27.8 41.6

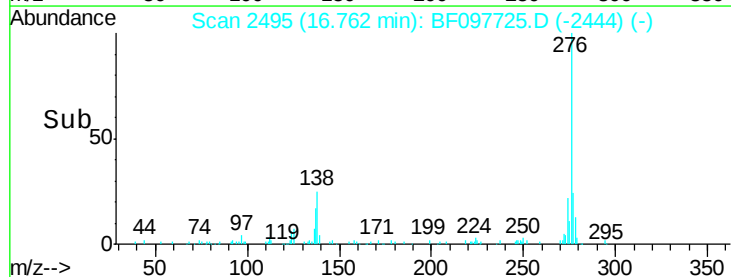
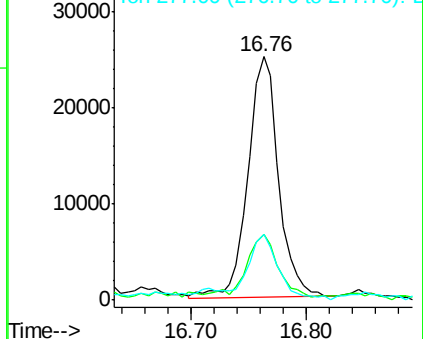
277 27.8 20.2 30.4

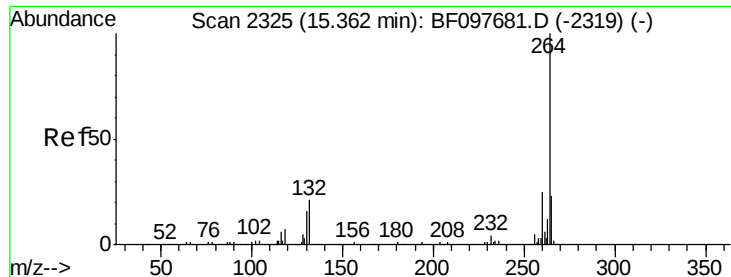


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

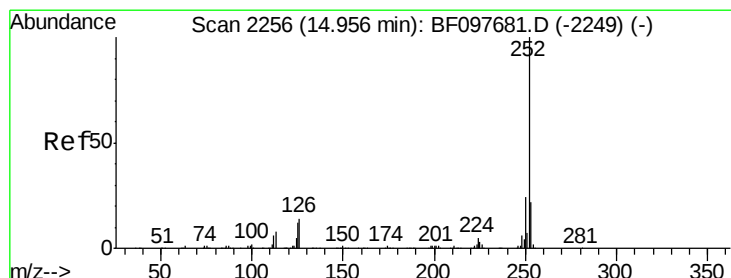
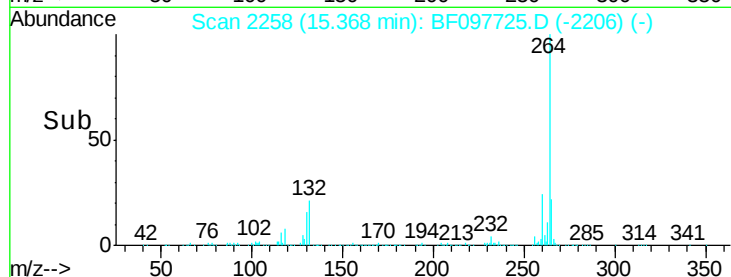
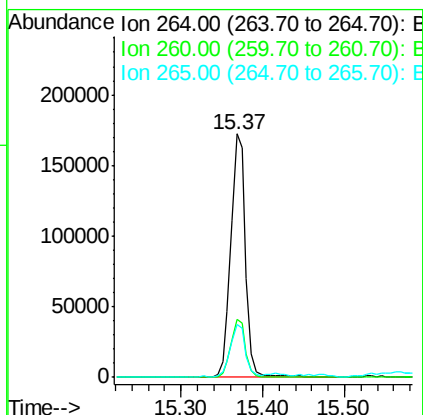
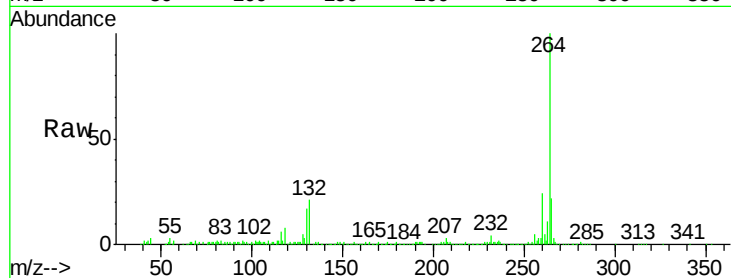




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.37 min Scan# 2258
Delta R.T. 0.01 min
Lab File: BF097725.D
Acq: 16 Aug 2017 7:47

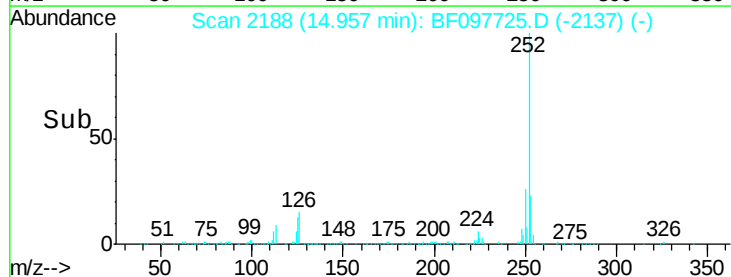
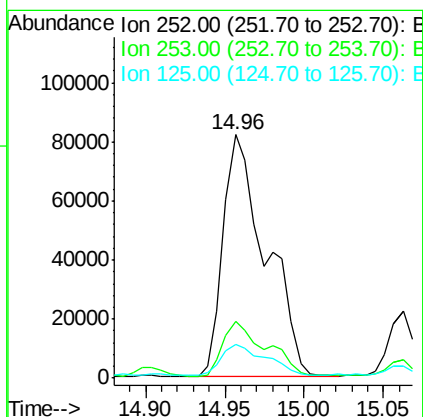
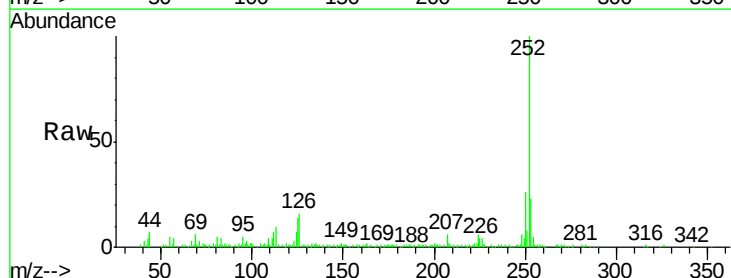
Instrument :
BNA_F
ClientSampleId :
E2-H9-BASE

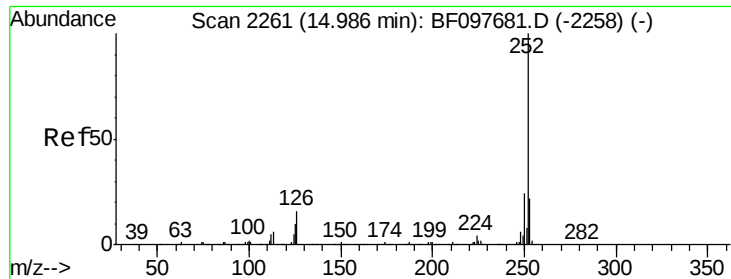
Tot Ion:264 Resp: 215803
Ion Ratio Lower Upper
264 100
260 23.9 19.5 29.3
265 21.9 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 11.40 ng
RT: 14.96 min Scan# 2188
Delta R.T. 0.00 min
Lab File: BF097725.D
Acq: 16 Aug 2017 7:47

Tgt Ion:252 Resp: 155101
Ion Ratio Lower Upper
252 100
253 23.4 18.1 27.1
125 13.9 9.8 14.8

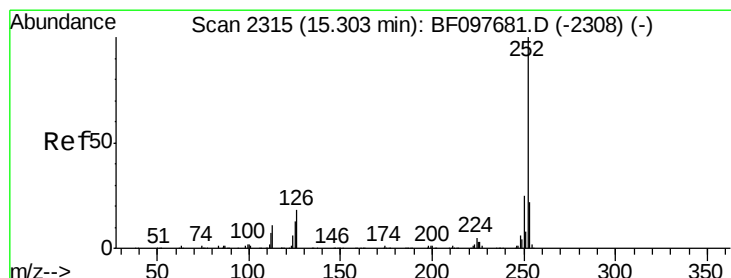
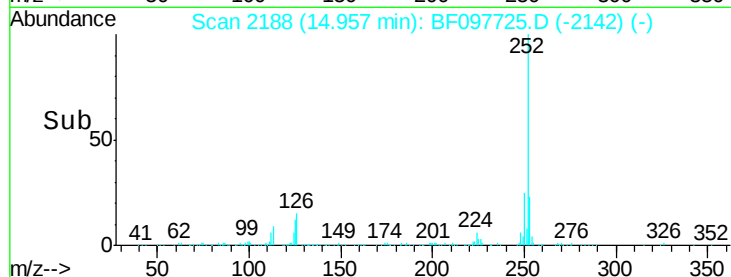
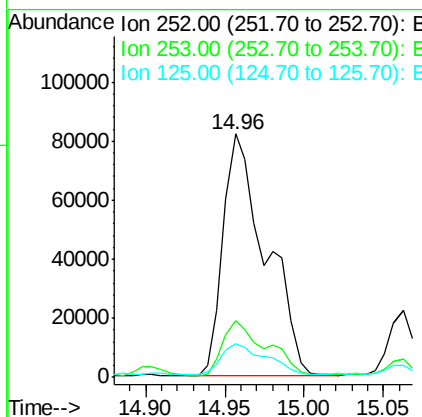
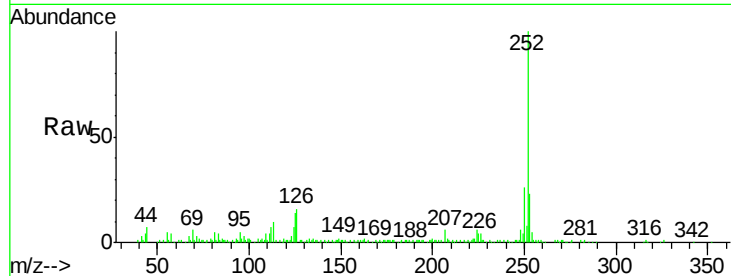




#88
Benzo(k)fluoranthene
Concen: 12.14 ng
RT: 14.96 min Scan# 2188
Delta R.T. -0.03 min
Lab File: BF097725.D
Acq: 16 Aug 2017 7:47

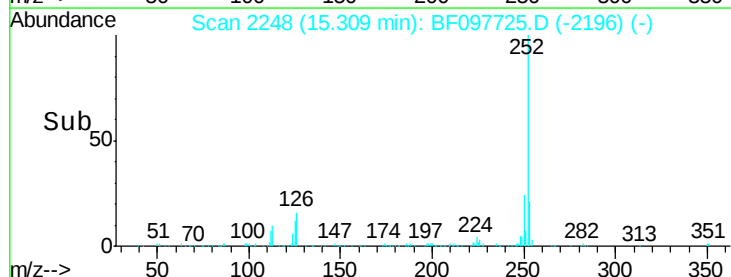
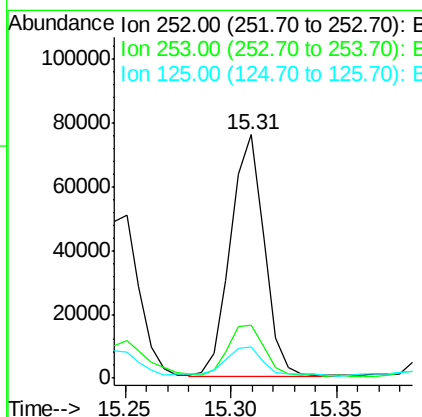
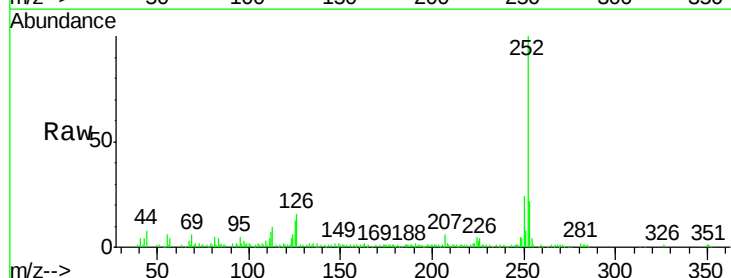
Instrument :
BNA_F
ClientSampleId :
E2-H9-BASE

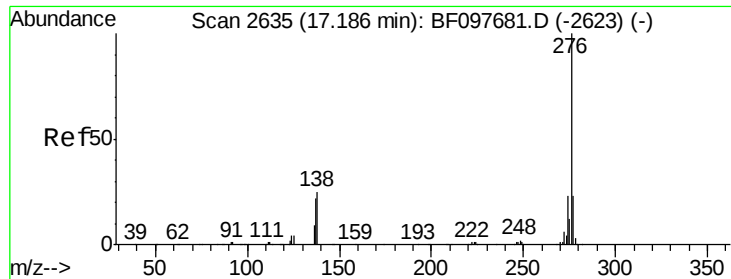
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.4	27.6
125	13.9	13.1	19.7



#89
Benzo(a)pyrene
Concen: 6.95 ng
RT: 15.31 min Scan# 2248
Delta R.T. 0.01 min
Lab File: BF097725.D
Acq: 16 Aug 2017 7:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	12.9	11.0	16.4





#91
 Benzo(a,h,i)perylene
 Concen: 4.33 ng
 RT: 17.18 min Scan# 2566
 Delta R.T. -0.01 min
 Lab File: BF097725.D
 Acq: 16 Aug 2017 7:47

Instrument :
 BNA_F
 ClientSampleId :
 E2-H9-BASE

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.4	18.6	28.0
138	27.8	25.4	38.0

