

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080117\
 Data File : BF097253.D
 Acq On : 2 Aug 2017 4:42
 Operator : SJ/JU
 Sample : I4471-17
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

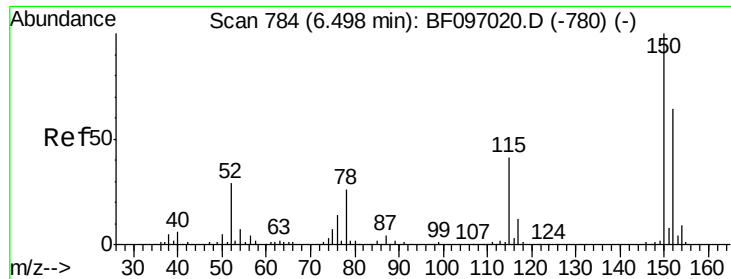
Instrument :
 BNA_F
 ClientSampleId :
 E2-L6-WSW

Quant Time: Aug 02 05:35:06 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 14:11:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.46	152	113393	20.00	ng	-0.04
21) Naphthalene-d8	7.75	136	416617	20.00	ng	-0.04
38) Acenaphthene-d10	9.49	164	138345	20.00	ng	-0.04
63) Phenanthrene-d10	10.97	188	206729	20.00	ng	-0.04
75) Chrysene-d12	13.60	240	199669	20.00	ng	-0.03
86) Perylene-d12	14.95	264	130482	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.07	112	814983	108.35	ng	-0.03
7) Phenol-d6	6.14	99	891027	103.76	ng	-0.03
23) Nitrobenzene-d5	7.03	82	531314	74.81	ng	-0.04
41) 2,4,6-Tribromophenol	10.28	330	100640	92.07	ng	-0.04
44) 2-Fluorobiphenyl	8.82	172	579762	71.12	ng	-0.05
78) Terphenyl-d14	12.55	244	380415	38.84	ng	-0.04
Target Compounds						Qvalue
6) Aniline	6.20	93	109210	10.11	ng	# 51
10) Phenol	6.15	94	47982	4.71	ng	100
11) bis(2-Chloroethyl)ether	6.20	93	109210	13.56	ng	86
19) n-Nitroso-di-n-propylamine	7.03	70	72147	12.76	ng	# 86
25) Isophorone	7.03	82	519660	37.36	ng	# 67
31) Naphthalene	7.77	128	59583	3.03	ng	98
32) Benzoic acid	7.57	122	20876	4.24	ng	# 32
37) 2-Methylnaphthalene	8.46	142	47474	3.82	ng	98
49) Dimethylphthalate	9.23	163	255406	24.31	ng	100
67) Hexachlorobenzene	10.59	284	8751	3.78	ng	# 46
85) Indeno(1,2,3-cd)pyrene	16.17	276	76454	7.07	ng	94
87) Benzo(b)fluoranthene	14.59	252	41890	5.34	ng	# 66
88) Benzo(k)fluoranthene	14.59	252	41890	5.60	ng	# 70
89) Benzo(a)pyrene	14.90	252	44405	6.19	ng	# 77
90) Dibenzo(a,h)anthracene	16.17	278	17314	2.94	ng	# 65
91) Benzo(g,h,i)perylene	16.53	276	79864	12.94	ng	95

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

```
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ALS Vial  : 29 Sample Multiplier: 1
```



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.46 min Scan# 778

Delta R.T. -0.04 min

Lab File: BF097253.D

Acq: 2 Aug 2017 4:42

Instrument :

BNA_F

ClientSampleId :

E2-L6-WSW

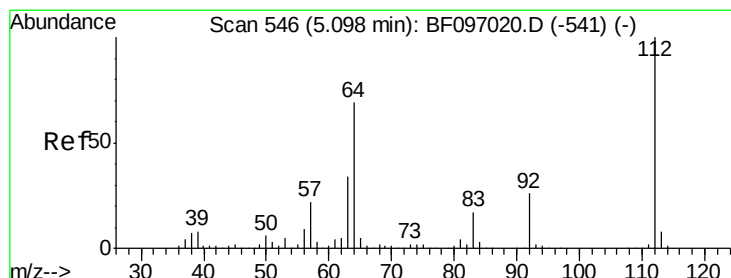
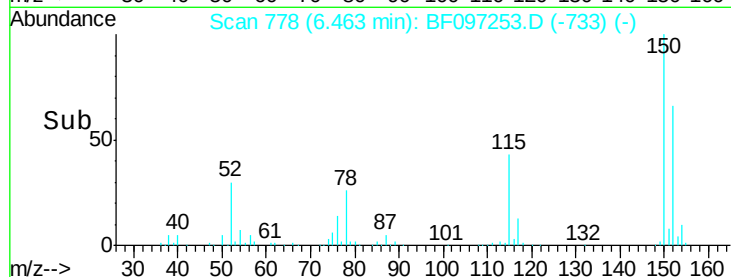
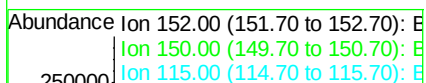
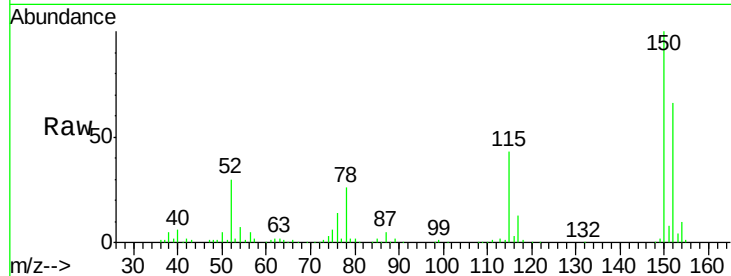
Tot Ion:152 Resp: 113393

Ion Ratio Lower Upper

152 100

150 151.2 126.2 189.2

115 65.2 52.2 78.2



#5

2-Fluorophenol

Concen: 108.35 ng

RT: 5.07 min Scan# 541

Delta R.T. -0.03 min

Lab File: BF097253.D

Acq: 2 Aug 2017 4:42

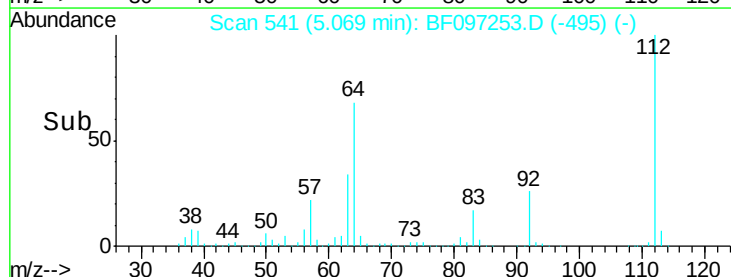
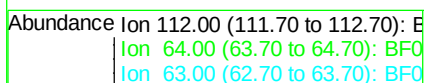
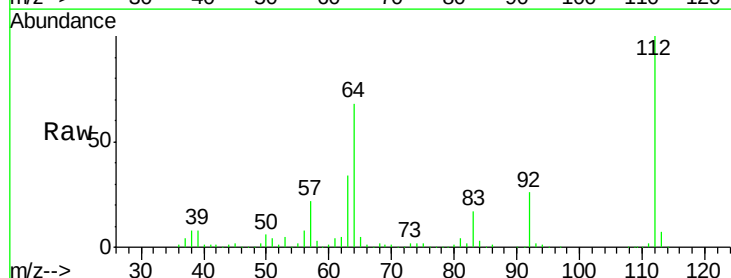
Tgt Ion:112 Resp: 814983

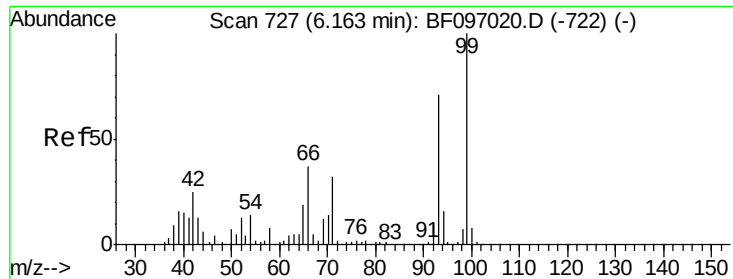
Ion Ratio Lower Upper

112 100

64 67.7 46.0 69.0

63 34.1 23.4 35.0





#6

Aniline

Concen: 10.11 ng

RT: 6.20 min Scan# 734

Delta R.T. 0.04 min

Lab File: BF097253.D

Acq: 2 Aug 2017 4:42

Instrument :

BNA_F

ClientSampleId :

E2-L6-WSW

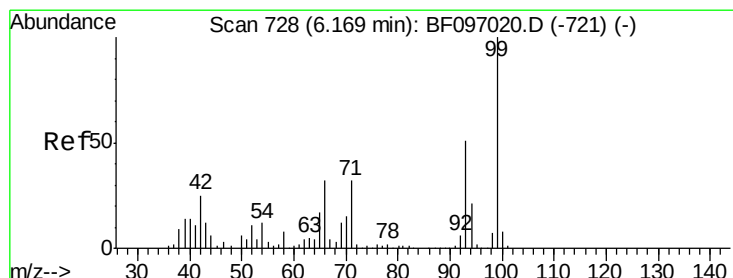
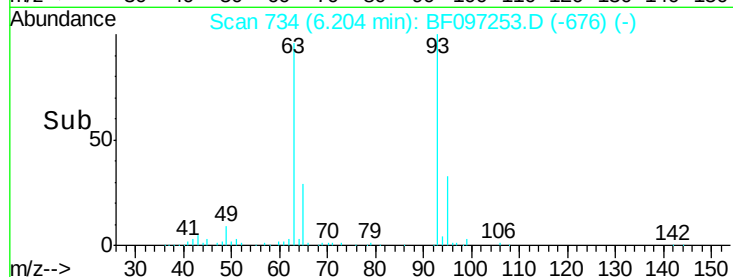
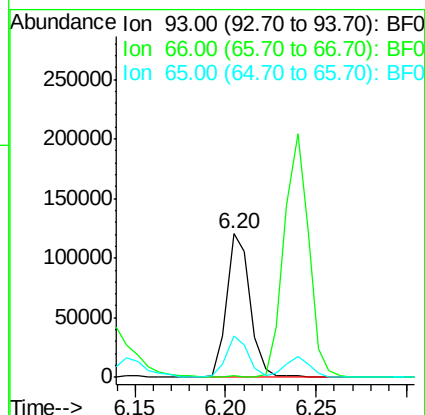
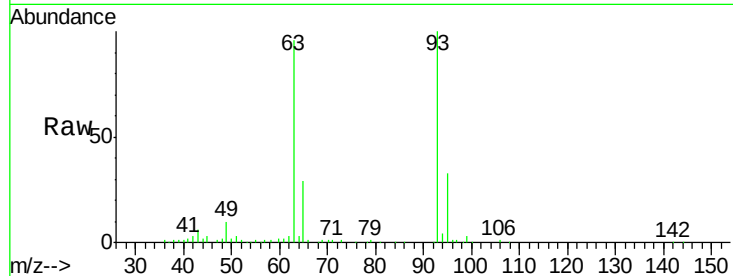
Tot Ion: 93 Resp: 109210

Ion Ratio Lower Upper

93 100

66 1.3 32.9 49.3#

65 28.7 16.0 24.0#



#7

Phenol-d6

Concen: 103.76 ng

RT: 6.14 min Scan# 723

Delta R.T. -0.03 min

Lab File: BF097253.D

Acq: 2 Aug 2017 4:42

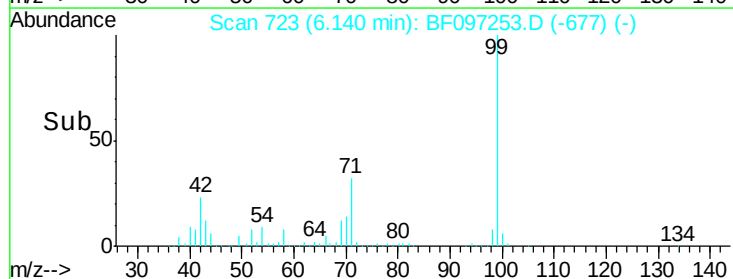
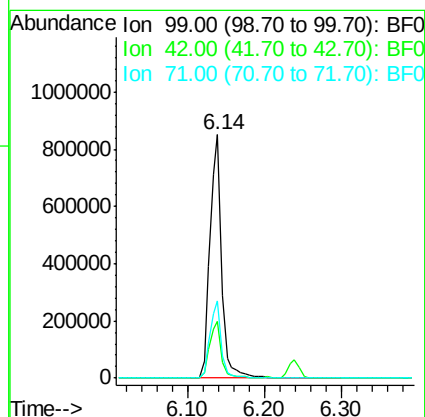
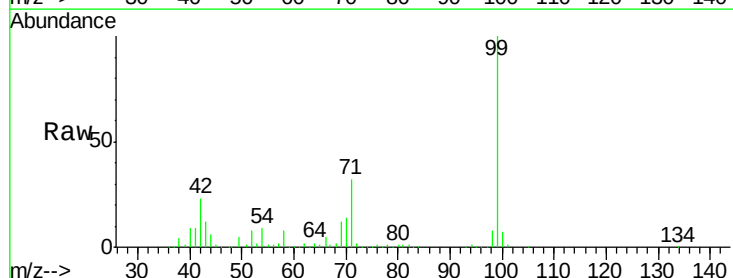
Tgt Ion: 99 Resp: 891027

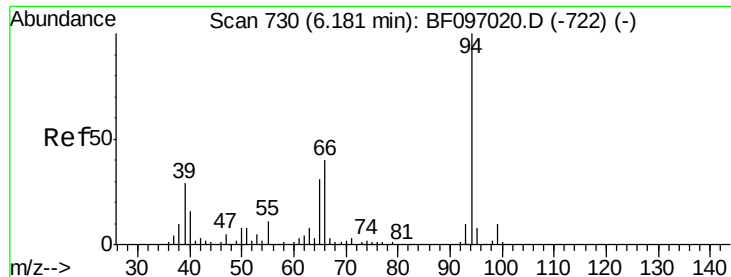
Ion Ratio Lower Upper

99 100

42 23.3 13.5 20.3#

71 31.9 24.5 36.7





#10

Phenol

Concen: 4.71 ng

RT: 6.15 min Scan# 725

Delta R.T. -0.03 min

Lab File: BF097253.D

Acq: 2 Aug 2017 4:42

Instrument :

BNA_F

ClientSampleId :

E2-L6-WSW

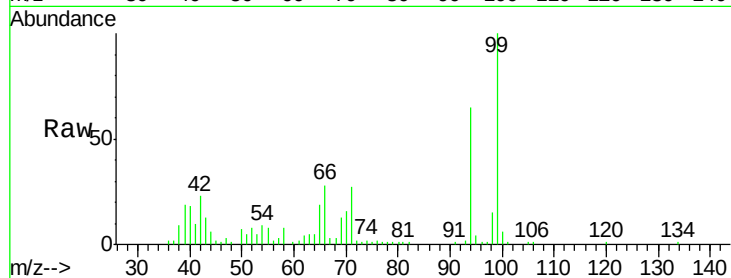
Tot Ion: 94 Resp: 47982

Ion Ratio Lower Upper

94 100

65 29.8 9.9 49.9

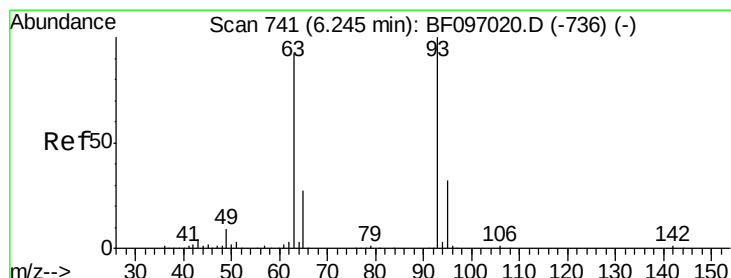
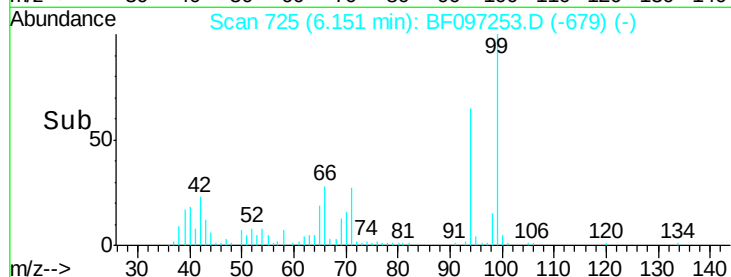
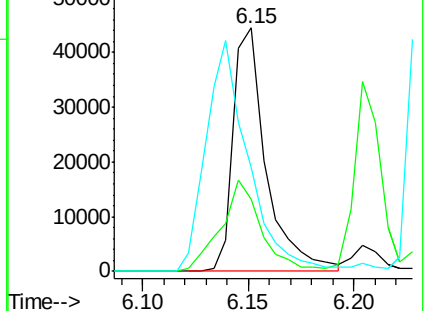
66 42.7 23.1 63.1



Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0



#11

bis(2-Chloroethyl)ether

Concen: 13.56 ng

RT: 6.20 min Scan# 734

Delta R.T. -0.04 min

Lab File: BF097253.D

Acq: 2 Aug 2017 4:42

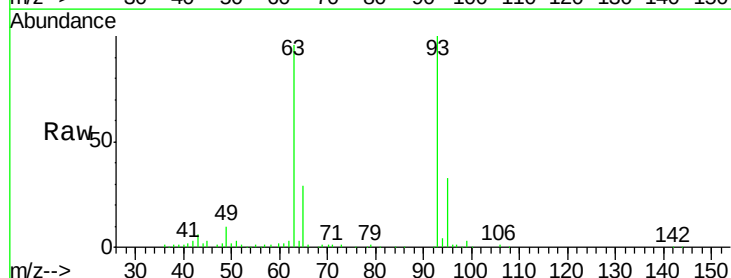
Tgt Ion: 93 Resp: 109210

Ion Ratio Lower Upper

93 100

63 96.2 59.2 99.2

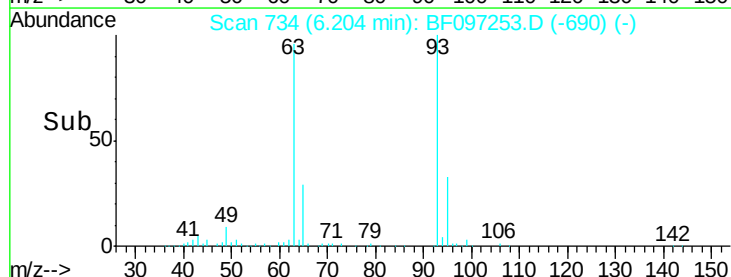
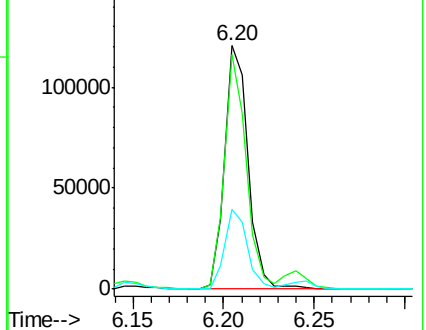
95 33.0 12.8 52.8

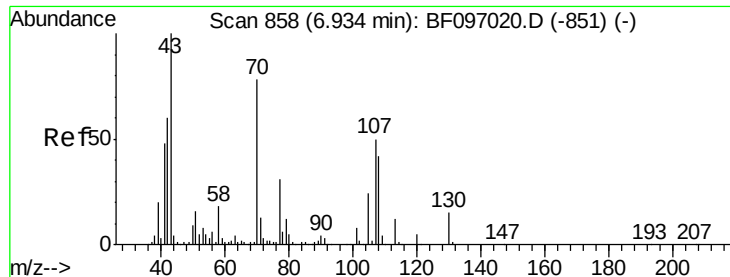


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

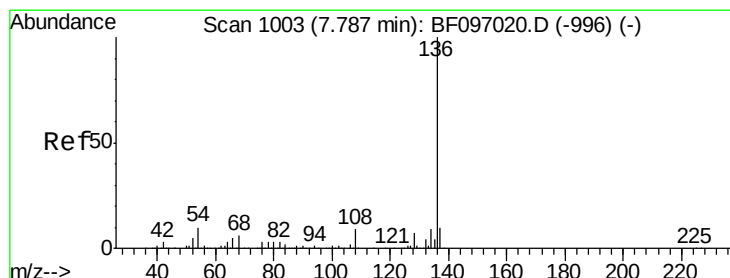
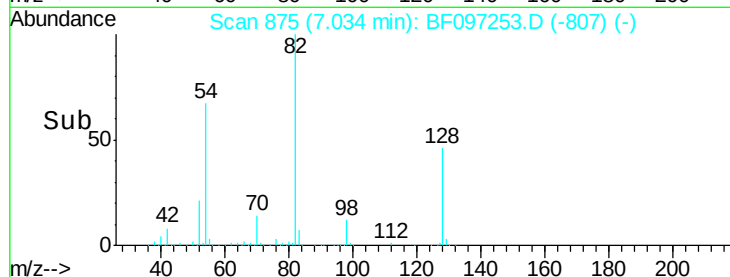
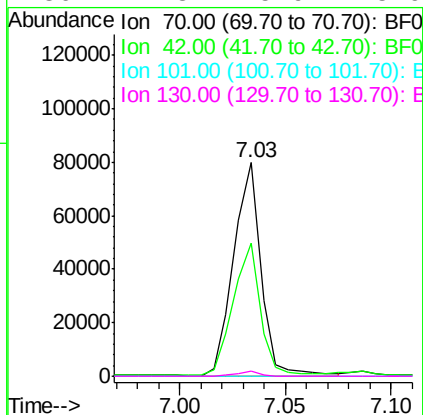
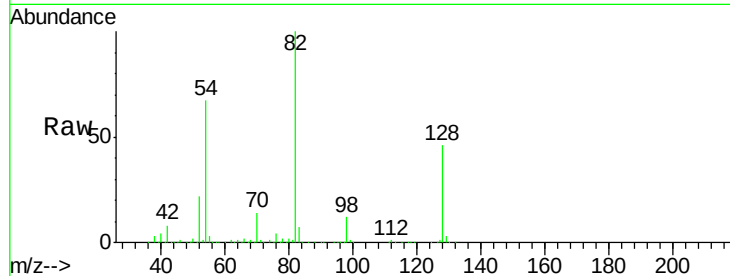




#19
n-Nitroso-di-n-propylamine
Concen: 12.76 ng
RT: 7.03 min Scan# 875
Delta R.T. 0.10 min
Lab File: BF097253.D
Acq: 2 Aug 2017 4:42

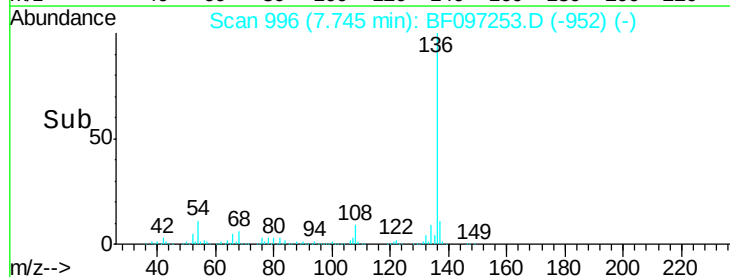
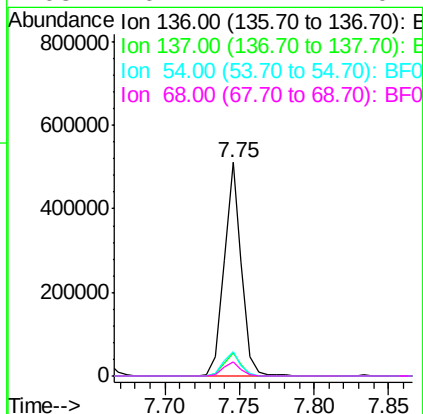
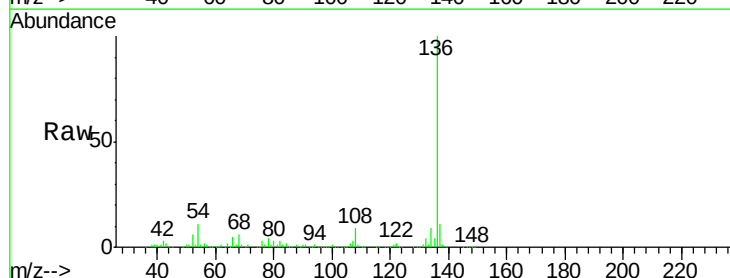
Instrument :
BNA_F
ClientSampleId :
E2-L6-WSW

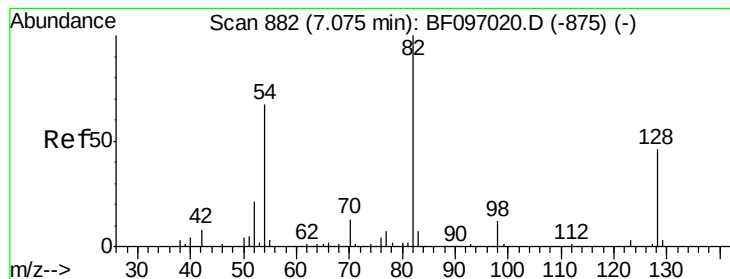
Tot Ion: 70 Resp: 72147
Ion Ratio Lower Upper
70 100
42 62.1 47.2 70.8
101 0.0 7.2 10.8#
130 2.3 15.9 23.9#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.75 min Scan# 996
Delta R.T. -0.04 min
Lab File: BF097253.D
Acq: 2 Aug 2017 4:42

Tgt Ion:136 Resp: 416617
Ion Ratio Lower Upper
136 100
137 10.9 8.5 12.7
54 11.2 4.9 7.3#
68 6.4 4.1 6.1#





#23

Nitrobenzene-d5

Concen: 74.81 ng

RT: 7.03 min Scan# 875

Delta R.T. -0.04 min

Lab File: BF097253.D

Acq: 2 Aug 2017 4:42

Instrument :

BNA_F

ClientSampleId :

E2-L6-WSW

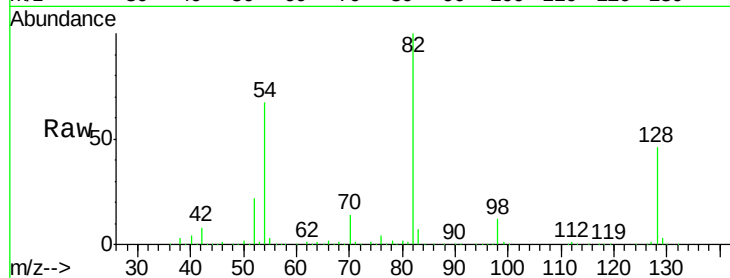
Tot Ion: 82 Resp: 531314

Ion Ratio Lower Upper

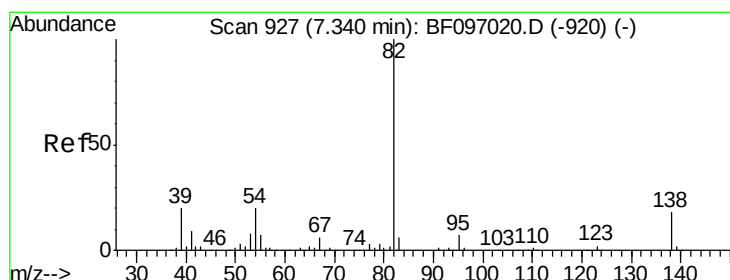
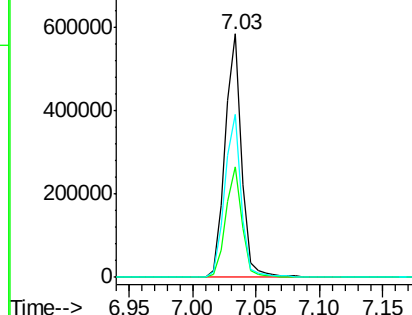
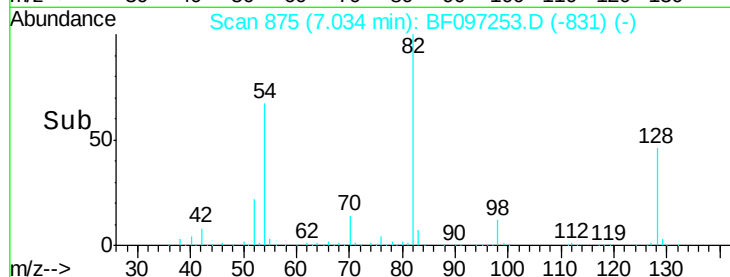
82 100

128 45.5 34.0 51.0

54 67.1 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: 37.36 ng

RT: 7.03 min Scan# 875

Delta R.T. -0.31 min

Lab File: BF097253.D

Acq: 2 Aug 2017 4:42

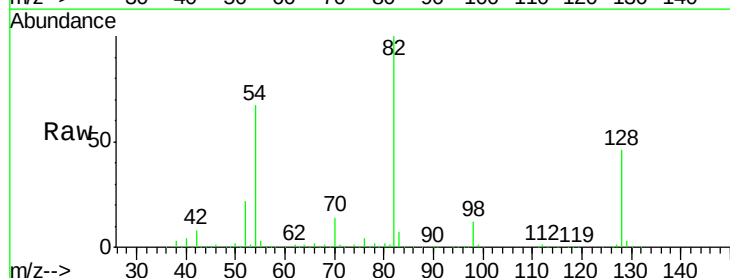
Tgt Ion: 82 Resp: 519660

Ion Ratio Lower Upper

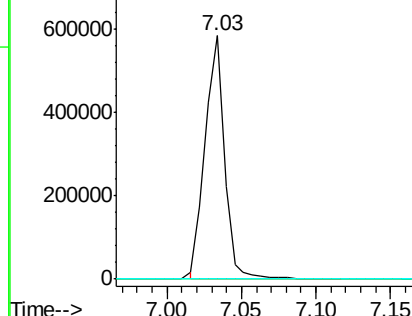
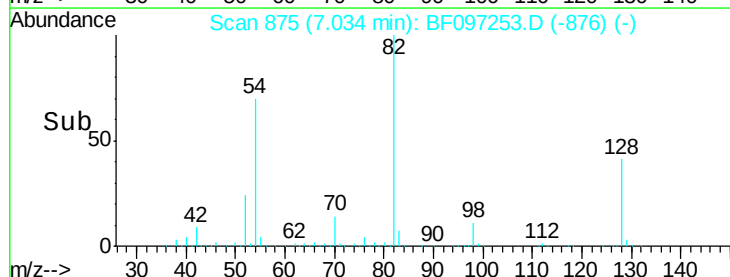
82 100

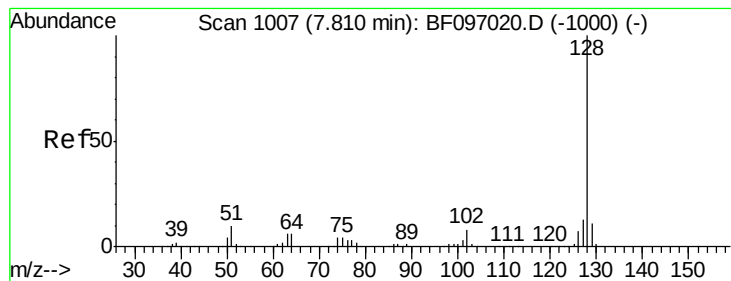
95 0.1 5.3 7.9#

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: 3.03 ng

RT: 7.77 min Scan# 1000

Delta R.T. -0.04 min

Lab File: BF097253.D

Acq: 2 Aug 2017 4:42

Instrument :

BNA_F

ClientSampleId :

E2-L6-WSW

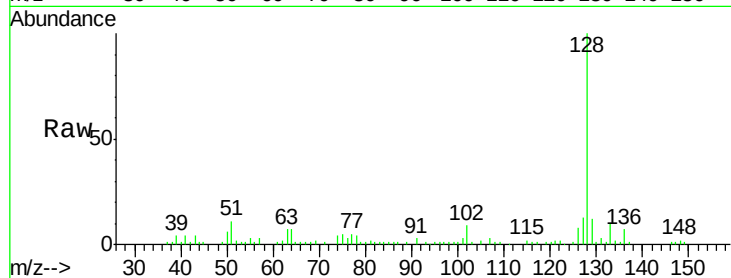
Tot Ion:128 Resp: 59583

Ion Ratio Lower Upper

128 100

129 12.0 9.0 13.6

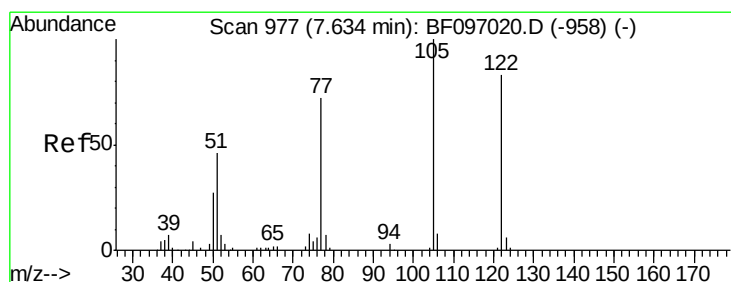
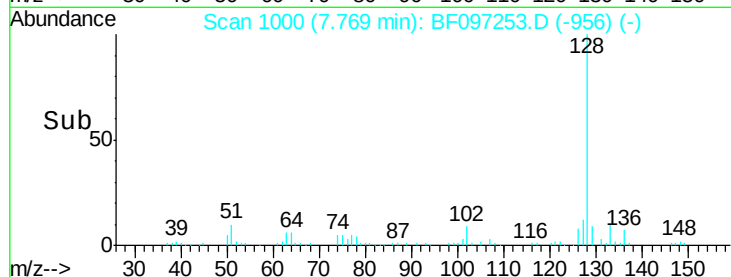
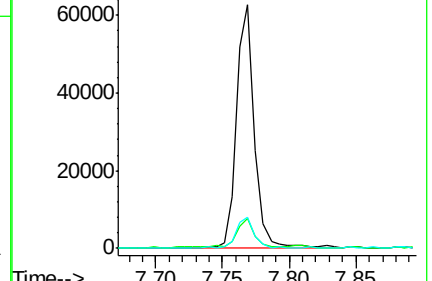
127 12.9 10.8 16.2



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: 4.24 ng

RT: 7.57 min Scan# 967

Delta R.T. -0.06 min

Lab File: BF097253.D

Acq: 2 Aug 2017 4:42

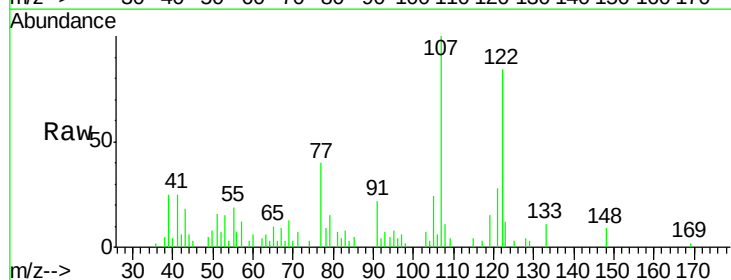
Tgt Ion:122 Resp: 20876

Ion Ratio Lower Upper

122 100

105 29.1 103.3 143.3#

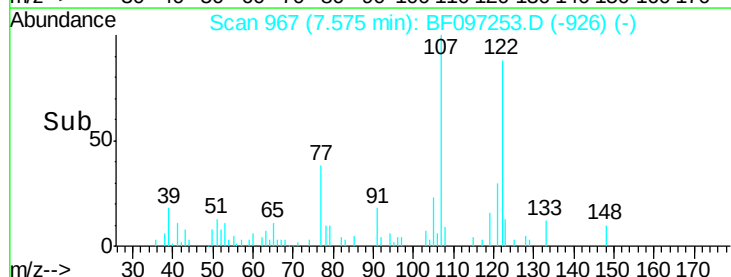
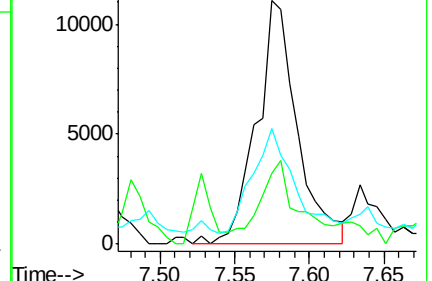
77 47.4 73.7 113.7#

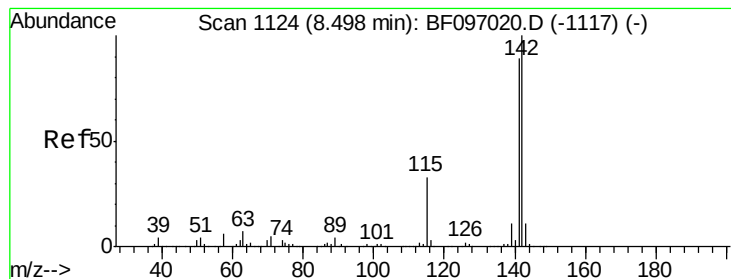


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0

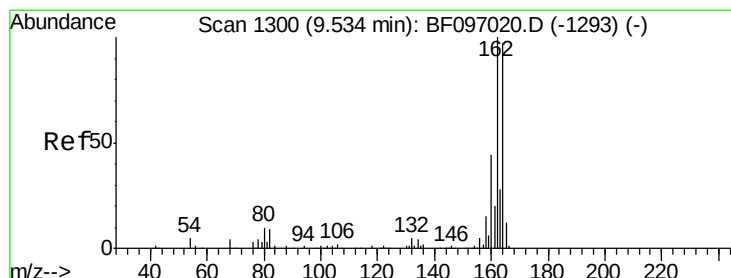
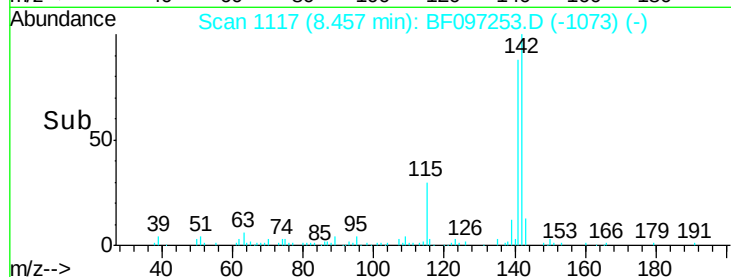
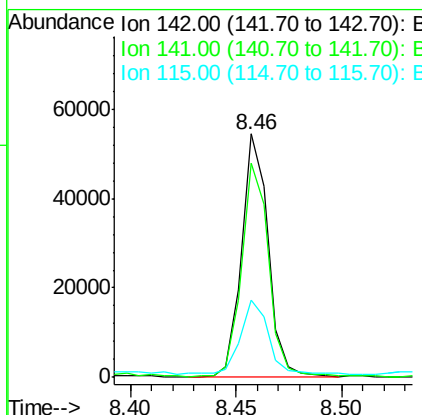
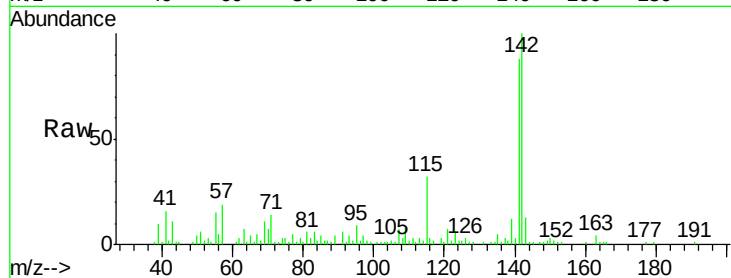




#37
 2-Methylnaphthalene
 Concen: 3.82 ng
 RT: 8.46 min Scan# 1117
 Delta R.T. -0.04 min
 Lab File: BF097253.D
 Acq: 2 Aug 2017 4:42

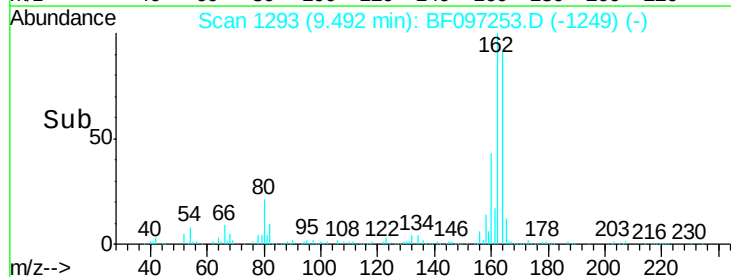
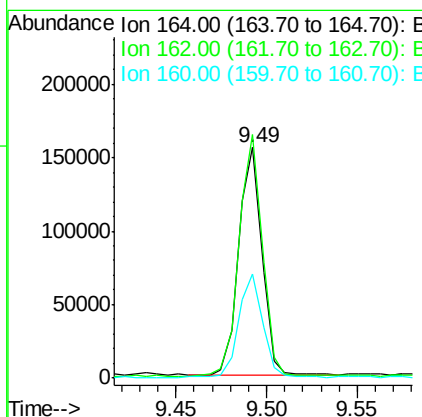
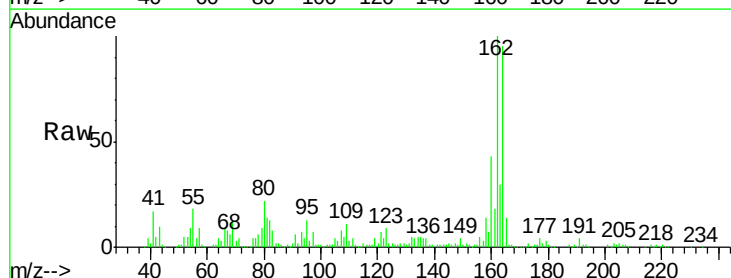
Instrument :
 BNA_F
 ClientSampleId :
 E2-L6-WSW

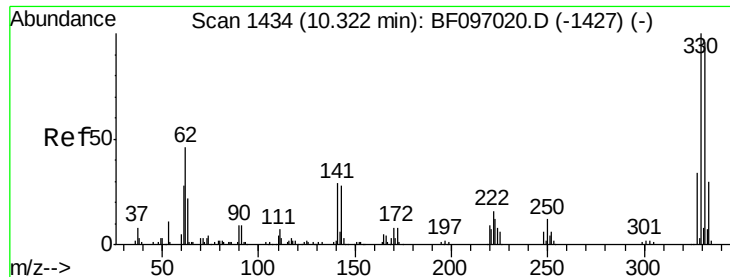
Tot Ion	Ratio	Lower	Upper
142	100		
141	88.2	71.3	106.9
115	31.8	27.1	40.7



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.49 min Scan# 1293
 Delta R.T. -0.04 min
 Lab File: BF097253.D
 Acq: 2 Aug 2017 4:42

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.6	82.6	123.8
160	45.2	36.2	54.2

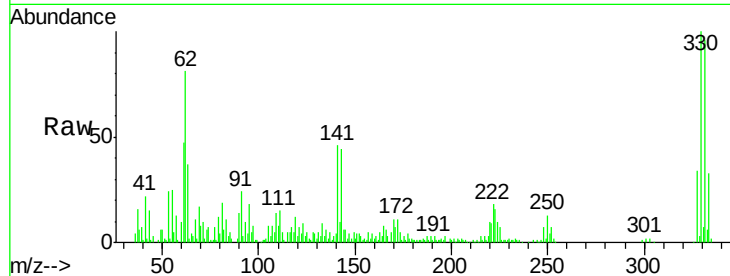




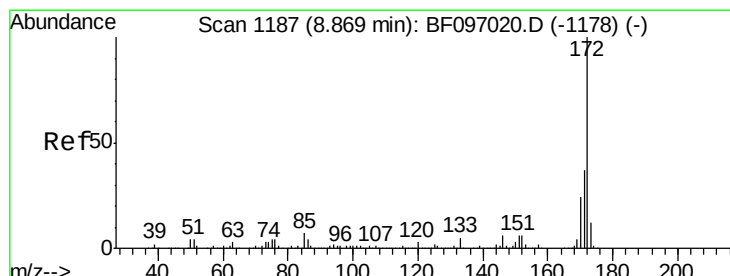
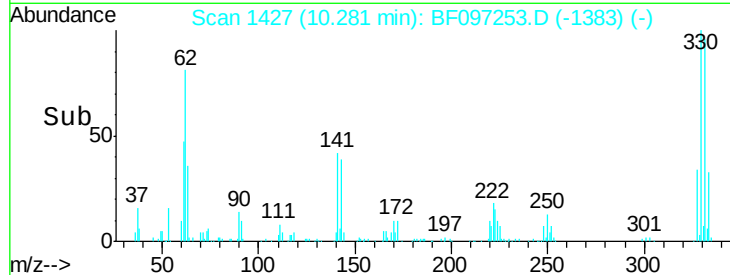
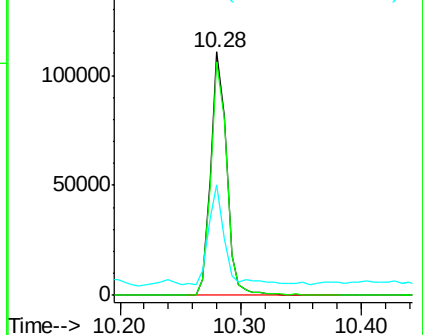
#41
 2,4,6-Tribromophenol
 Concen: 92.07 ng
 RT: 10.28 min Scan# 1427
 Delta R.T. -0.04 min
 Lab File: BF097253.D
 Acq: 2 Aug 2017 4:42

Instrument :
 BNA_F
 ClientSampled :
 E2-L6-WSW

Tot Ion:330 Resp: 100640
 Ion Ratio Lower Upper
 330 100
 332 96.5 76.6 115.0
 141 40.1 31.4 47.2

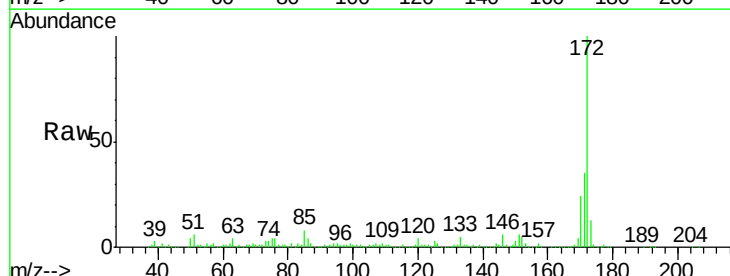


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

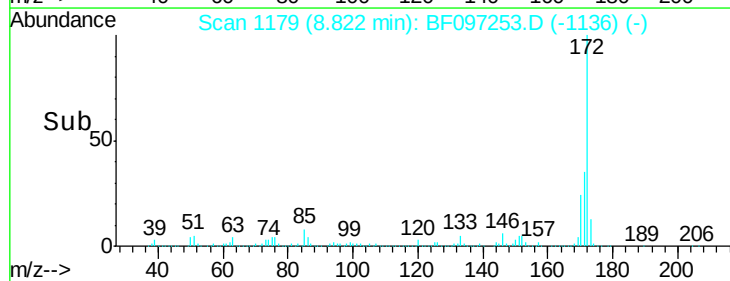
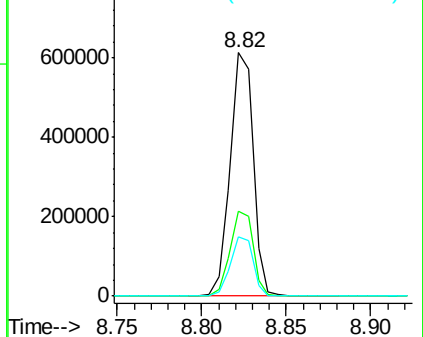


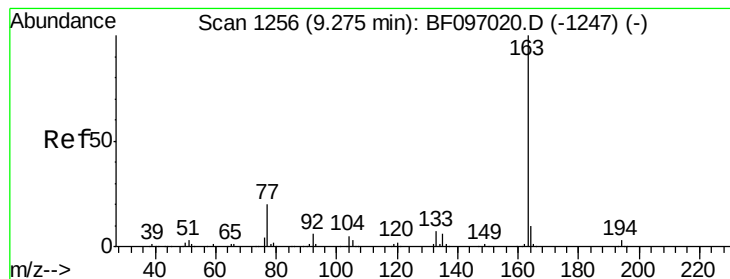
#44
 2-Fluorobiphenyl
 Concen: 71.12 ng
 RT: 8.82 min Scan# 1179
 Delta R.T. -0.05 min
 Lab File: BF097253.D
 Acq: 2 Aug 2017 4:42

Tgt Ion:172 Resp: 579762
 Ion Ratio Lower Upper
 172 100
 171 35.0 29.6 44.4
 170 24.2 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





#49

Dimethylphthalate

Concen: 24.31 ng

RT: 9.23 min Scan# 1248

Delta R.T. -0.05 min

Lab File: BF097253.D

Acq: 2 Aug 2017 4:42

Instrument :

BNA_F

ClientSampleId :

E2-L6-WSW

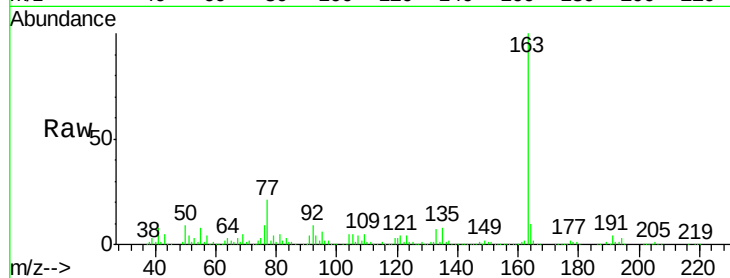
Tot Ion:163 Resp: 255406

Ion Ratio Lower Upper

163 100

194 3.2 2.6 4.0

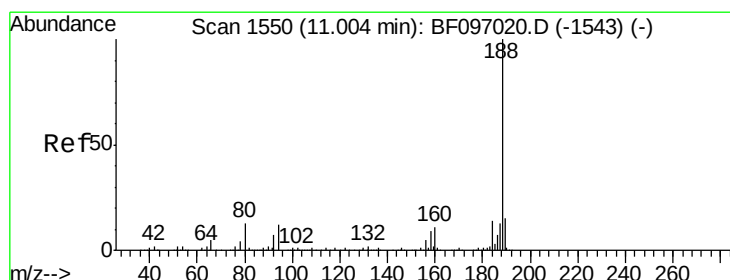
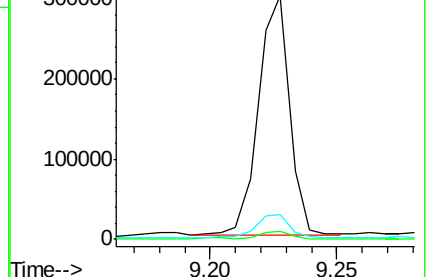
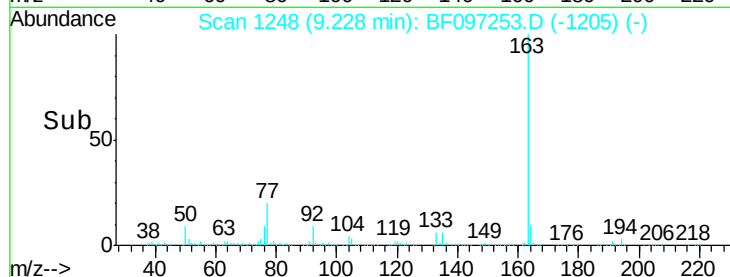
164 10.3 8.4 12.6



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 10.97 min Scan# 1544

Delta R.T. -0.04 min

Lab File: BF097253.D

Acq: 2 Aug 2017 4:42

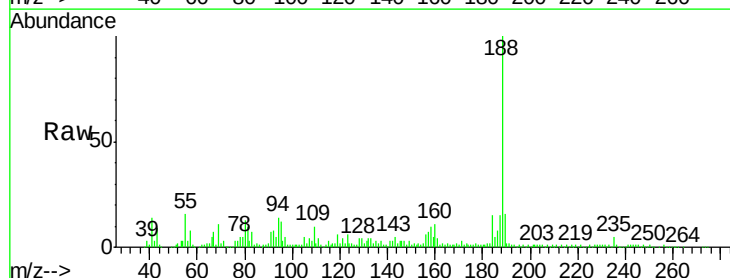
Tgt Ion:188 Resp: 206729

Ion Ratio Lower Upper

188 100

94 14.0 9.4 14.2

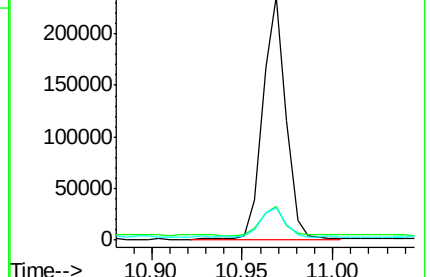
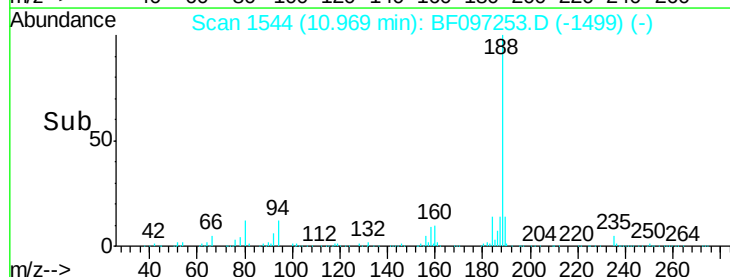
80 13.4 10.2 15.2

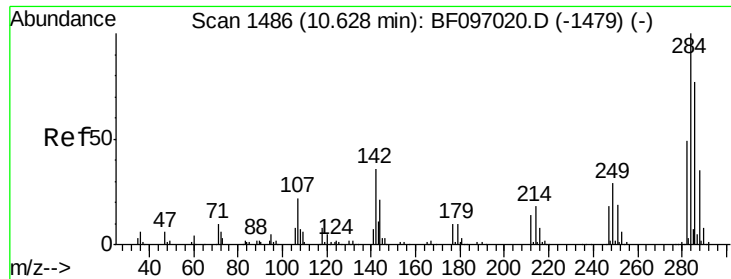


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#67

Hexachlorobenzene

Concen: 3.78 ng

RT: 10.59 min Scan# 1480

Delta R.T. -0.04 min

Lab File: BF097253.D

Acq: 2 Aug 2017 4:42

Instrument :

BNA_F

ClientSampleId :

E2-L6-WSW

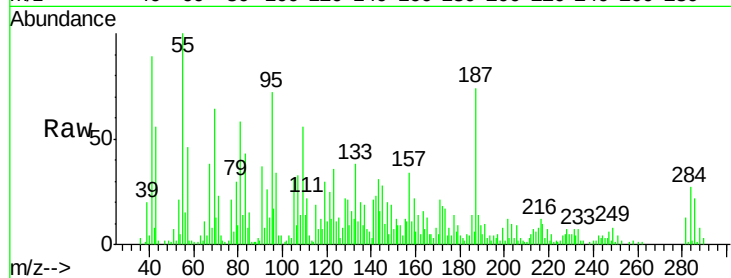
Tot Ion:284 Resp: 8751

Ion Ratio Lower Upper

284 100

142 86.6 22.8 34.2#

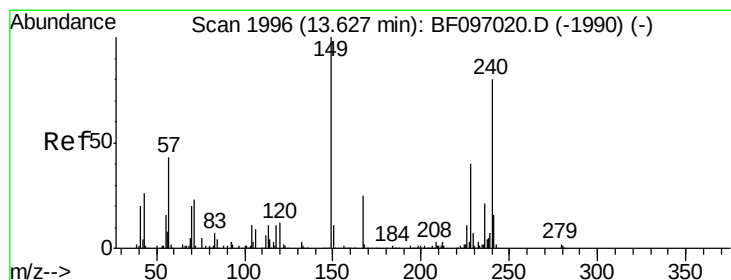
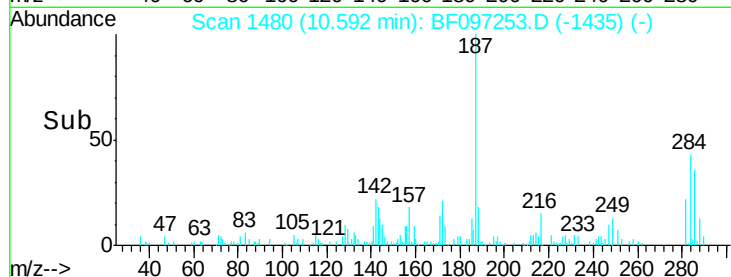
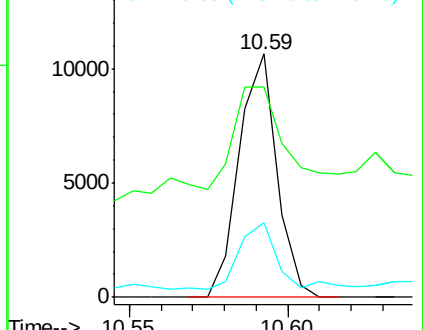
249 30.6 24.0 36.0



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.60 min Scan# 1991

Delta R.T. -0.03 min

Lab File: BF097253.D

Acq: 2 Aug 2017 4:42

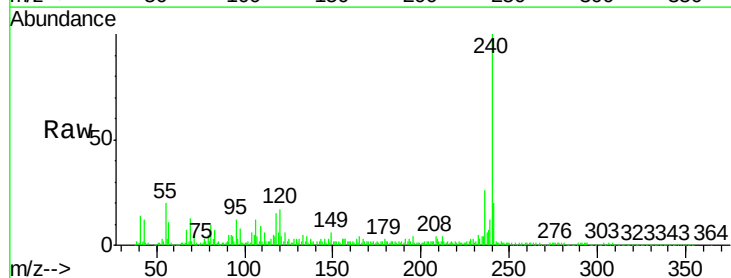
Tgt Ion:240 Resp: 199669

Ion Ratio Lower Upper

240 100

120 16.6 5.8 8.8#

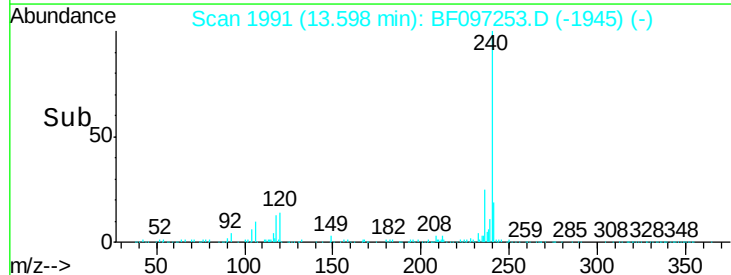
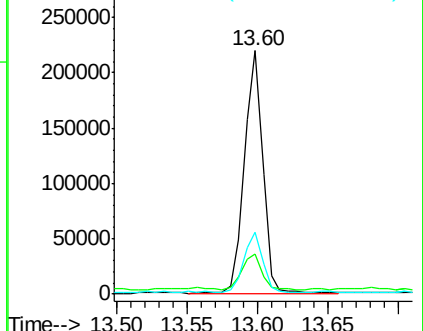
236 25.6 20.5 30.7

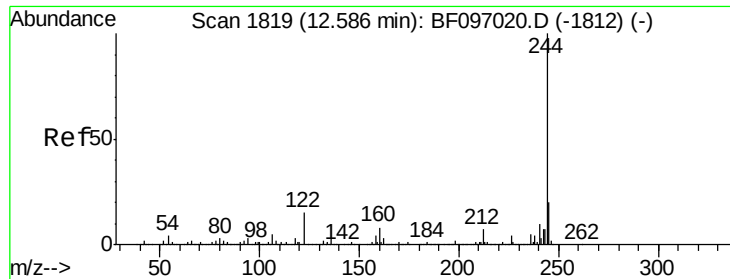


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 38.84 ng

RT: 12.55 min Scan# 1813

Delta R.T. -0.04 min

Lab File: BF097253.D

Acq: 2 Aug 2017 4:42

Instrument :

BNA_F

ClientSampleId :

E2-L6-WSW

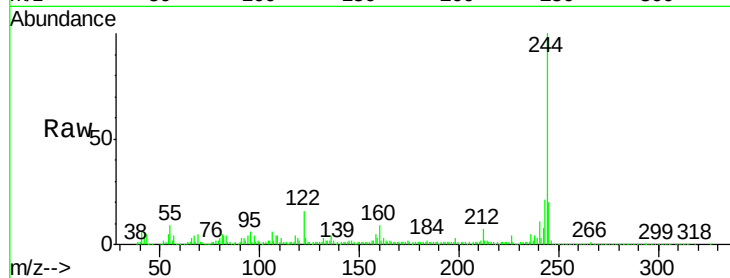
Tot Ion:244 Resp: 380415

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

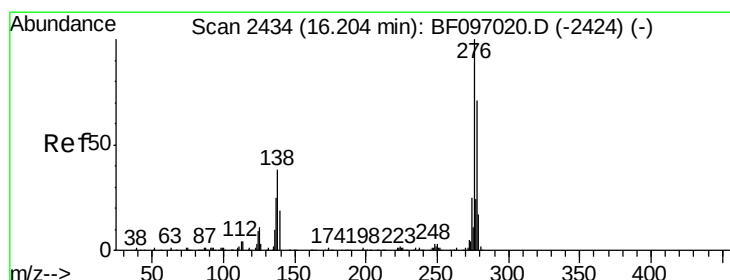
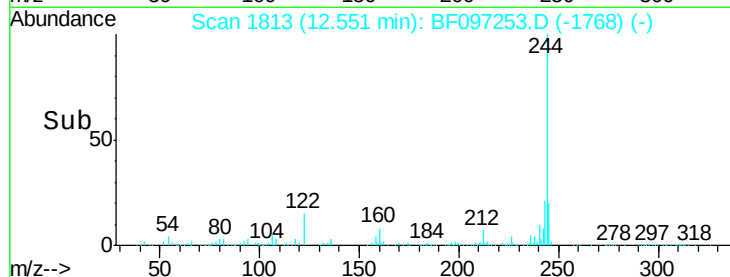
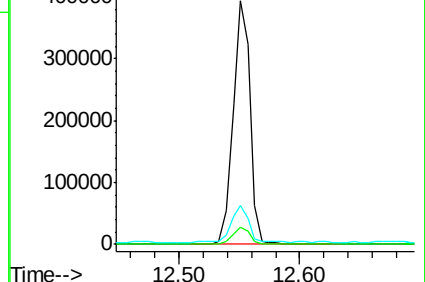
122 16.2 10.3 15.5#



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 7.07 ng

RT: 16.17 min Scan# 2428

Delta R.T. -0.04 min

Lab File: BF097253.D

Acq: 2 Aug 2017 4:42

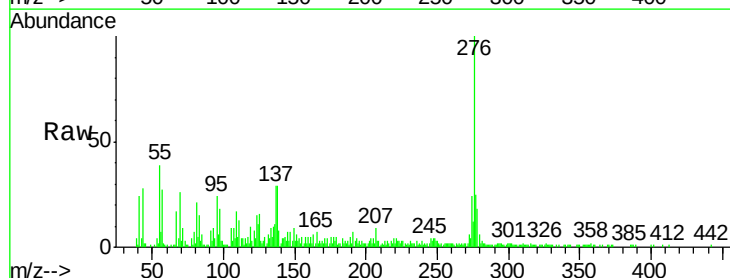
Tgt Ion:276 Resp: 76454

Ion Ratio Lower Upper

276 100

138 30.7 27.8 41.6

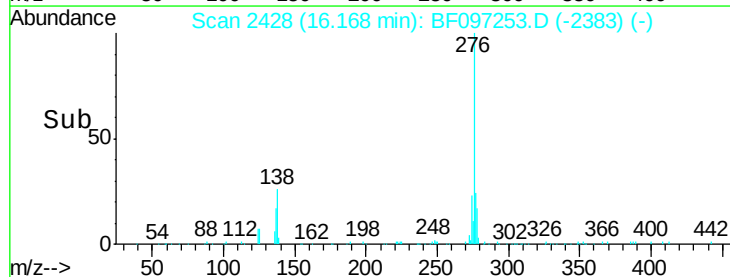
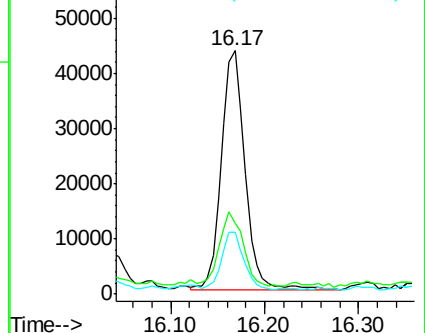
277 22.3 20.2 30.4

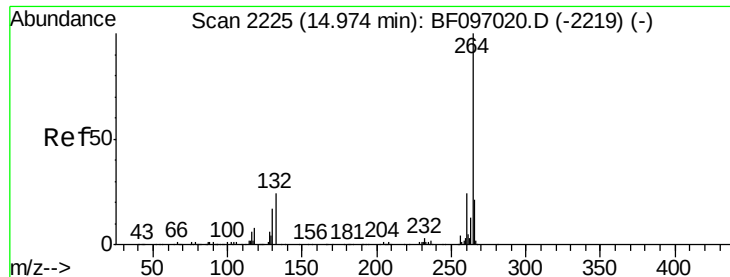


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

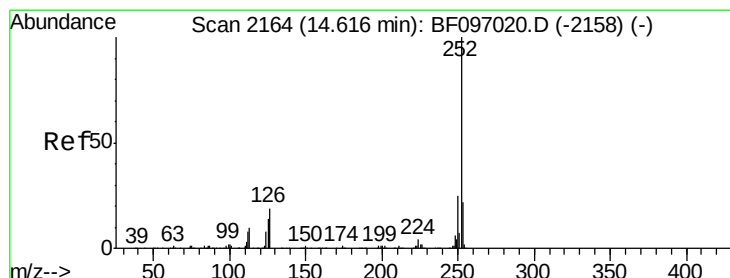
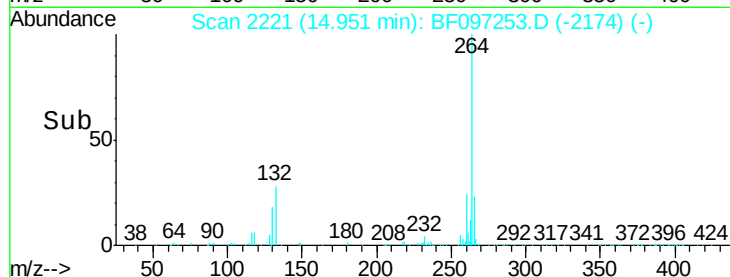
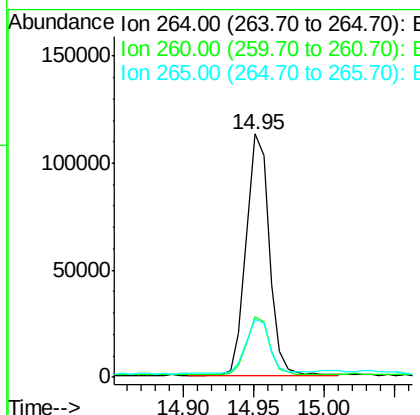
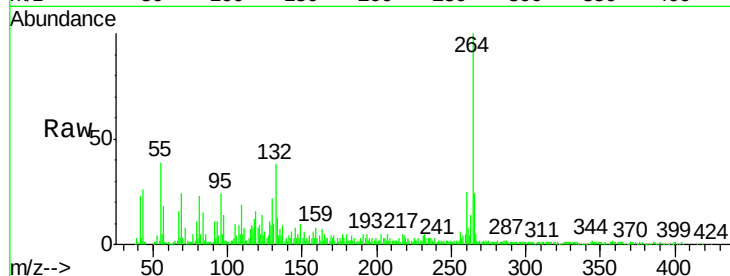




#86
Pervlene-d12
Concen: 20.00 ng
RT: 14.95 min Scan# 2221
Delta R.T. -0.02 min
Lab File: BF097253.D
Acq: 2 Aug 2017 4:42

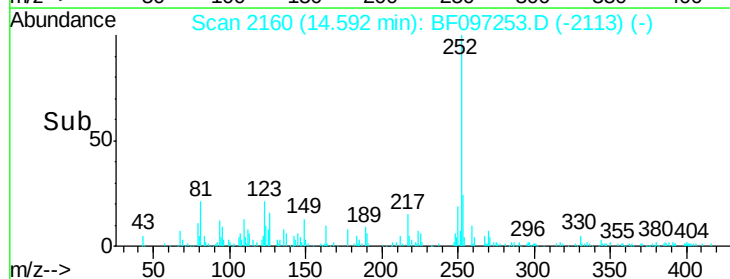
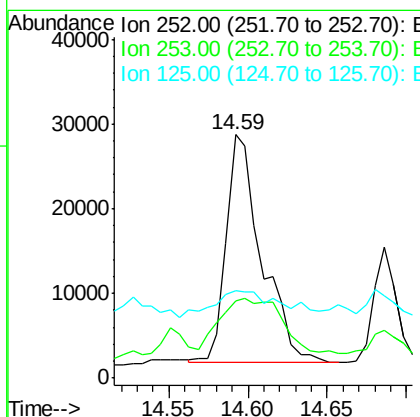
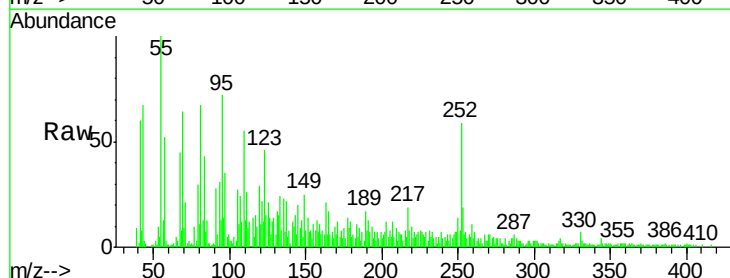
Instrument :
BNA_F
ClientSampleId :
E2-L6-WSW

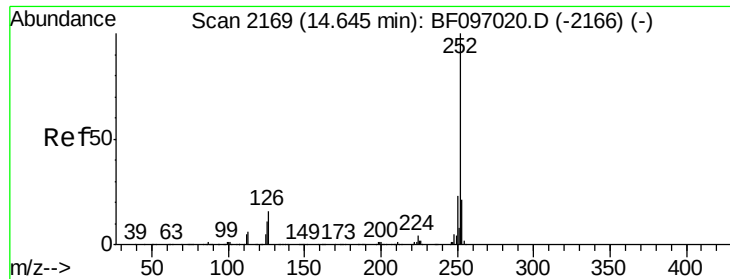
Tot Ion:264 Resp: 130482
Ion Ratio Lower Upper
264 100
260 24.7 19.5 29.3
265 24.1 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 5.34 ng
RT: 14.59 min Scan# 2160
Delta R.T. -0.02 min
Lab File: BF097253.D
Acq: 2 Aug 2017 4:42

Tgt Ion:252 Resp: 41890
Ion Ratio Lower Upper
252 100
253 31.9 18.1 27.1#
125 35.8 9.8 14.8#

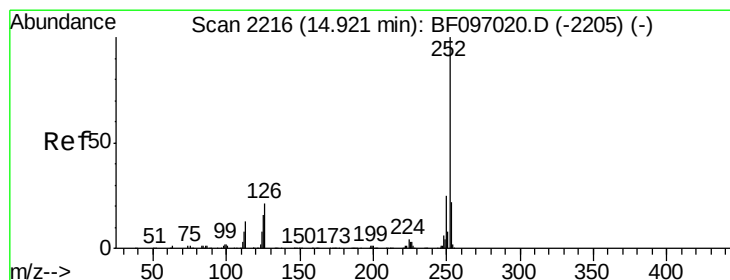
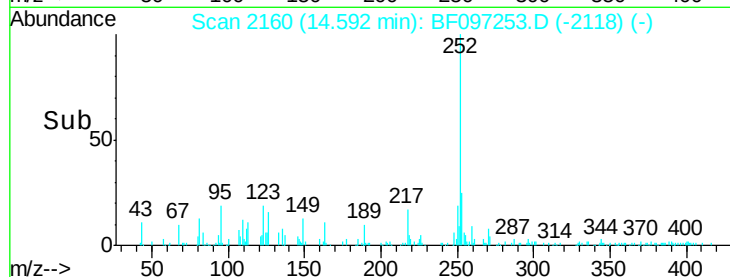
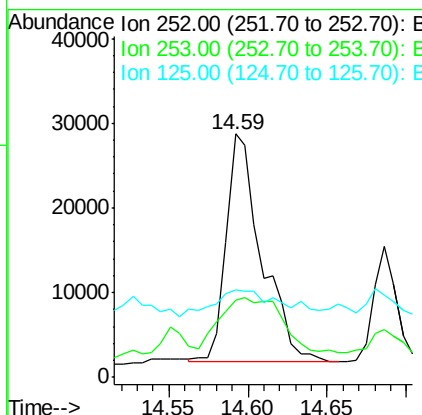
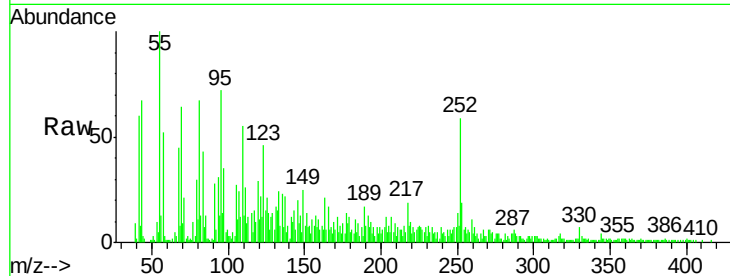




#88
Benzo(k)fluoranthene
Concen: 5.60 ng
RT: 14.59 min Scan# 2160
Delta R.T. -0.05 min
Lab File: BF097253.D
Acq: 2 Aug 2017 4:42

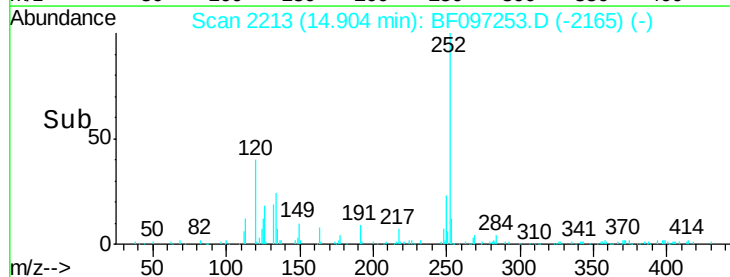
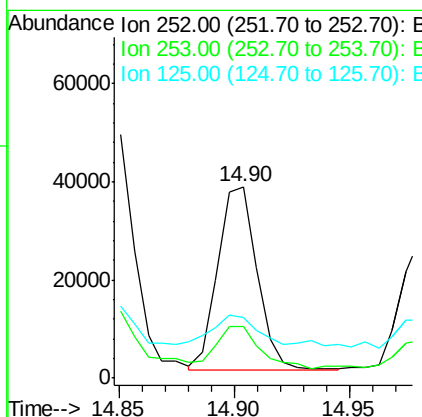
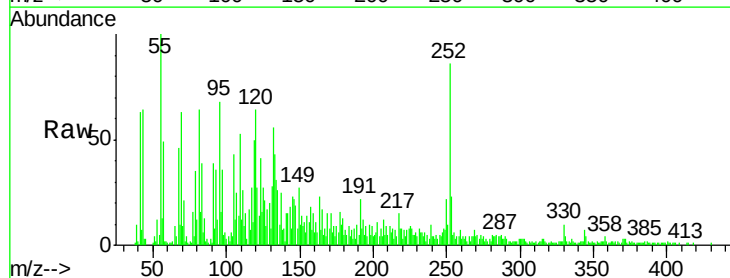
Instrument :
BNA_F
ClientSampleId :
E2-L6-WSW

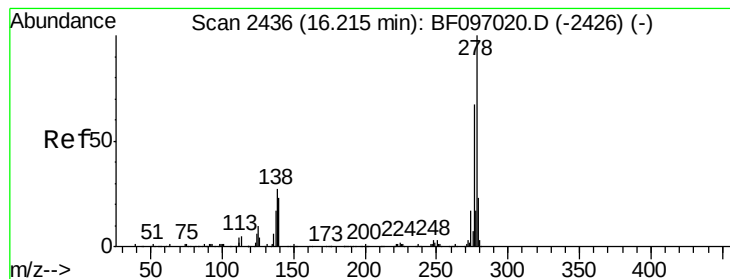
Tot Ion	Ratio	Lower	Upper
252	100		
253	31.9	18.4	27.6#
125	35.8	13.1	19.7#



#89
Benzo(a)pyrene
Concen: 6.19 ng
RT: 14.90 min Scan# 2213
Delta R.T. -0.02 min
Lab File: BF097253.D
Acq: 2 Aug 2017 4:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.9	17.5	26.3#
125	31.6	11.0	16.4#





#90

Dibenzo(a,h)anthracene

Concen: 2.94 ng

RT: 16.17 min Scan# 2428

Delta R.T. -0.05 min

Lab File: BF097253.D

Acq: 2 Aug 2017 4:42

Instrument :

BNA_F

ClientSampleId :

E2-L6-WSW

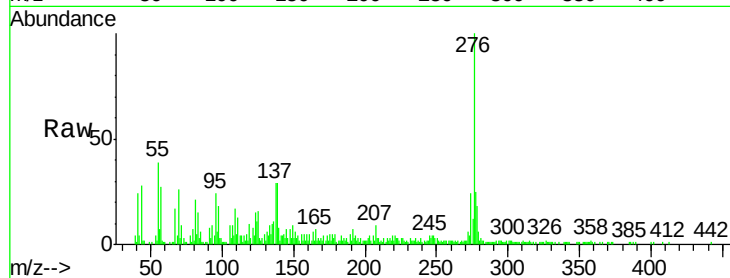
Tot Ion:278 Resp: 17314

Ion Ratio Lower Upper

278 100

139 45.8 16.6 24.8#

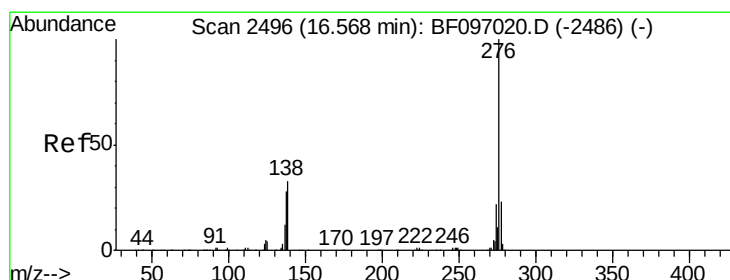
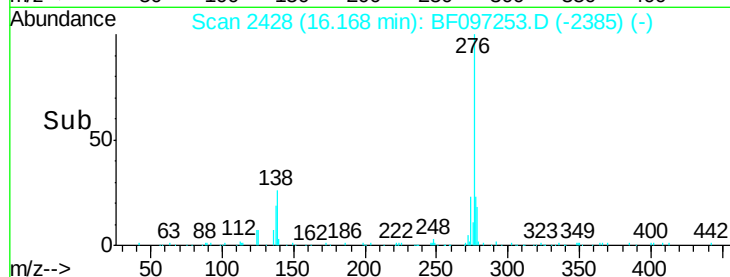
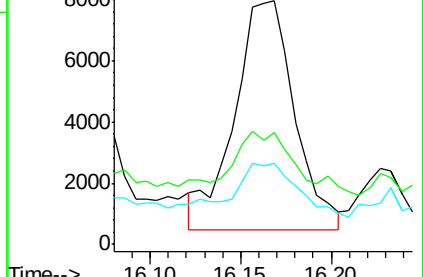
279 33.4 19.3 28.9#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 12.94 ng

RT: 16.53 min Scan# 2489

Delta R.T. -0.04 min

Lab File: BF097253.D

Acq: 2 Aug 2017 4:42

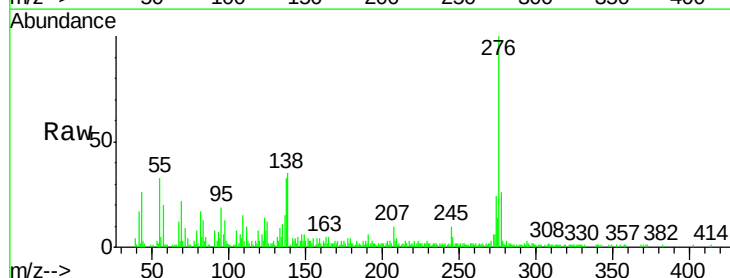
Tgt Ion:276 Resp: 79864

Ion Ratio Lower Upper

276 100

277 25.8 18.6 28.0

138 34.7 25.4 38.0



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

