

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080417\
 Data File : BF097389.D
 Acq On : 5 Aug 2017 7:22
 Operator : SJ/JU
 Sample : I4588-02 10X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-M8-ESW

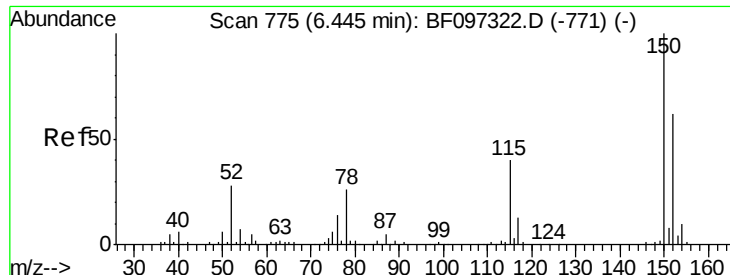
Quant Time: Aug 06 00:55:13 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 01:17:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.44	152	104557	20.00	ng	-0.06
21) Naphthalene-d8	7.72	136	383251	20.00	ng	-0.06
38) Acenaphthene-d10	9.46	164	153205	20.00	ng	-0.07
63) Phenanthrene-d10	10.93	188	208090	20.00	ng	-0.07
75) Chrysene-d12	13.56	240	169073	20.00	ng	-0.07
86) Perylene-d12	14.90	264	131655	20.00	ng	-0.08

System Monitoring Compounds						
5) 2-Fluorophenol	5.06	112	49949	7.20	ng	-0.04
7) Phenol-d6	6.13	99	66464	8.39	ng	-0.04
23) Nitrobenzene-d5	7.01	82	38278	5.86	ng	-0.06
41) 2,4,6-Tribromophenol	10.25	330	8899	7.35	ng	-0.07
44) 2-Fluorobiphenyl	8.80	172	69124	7.66	ng	-0.07
78) Terphenyl-d14	12.52	244	38619	4.66	ng	-0.07

Target Compounds						Qvalue
6) Aniline	6.18	93	29650	2.98	ng	# 54
11) bis(2-Chloroethyl)ether	6.18	93	29650	3.99	ng	94
13) 1,4-Dichlorobenzene	6.46	146	24552	3.10	ng	91
14) 1,2-Dichlorobenzene	6.61	146	49603	7.17	ng	95
20) 3+4-Methylphenols	6.91	107	84989	11.37	ng	# 67
22) Acetophenone	6.86	105	45189	4.91	ng	# 98
25) Isophorone	7.01	82	38277	2.99	ng	# 67
27) 2,4-Dimethylphenol	7.42	122	37246	6.13	ng	97
32) Benzoic acid	7.55	122	149939	33.07	ng	# 15
36) 4-Chloro-3-methylphenol	8.32	107	19437	3.41	ng	# 18
37) 2-Methylnaphthalene	8.43	142	23897	2.09	ng	# 94
39) 1,2,4,5-Tetrachlorobenzene	8.59	216	15579	3.81	ng	# 76
48) Acenaphthylene	9.33	152	34917	2.36	ng	# 90
77) Pyrene	12.36	202	28963	2.09	ng	# 94
87) Benzo(b)fluoranthene	14.55	252	41077	5.19	ng	# 89
88) Benzo(k)fluoranthene	14.55	252	41077	5.45	ng	94
91) Benzo(a,h,i)perylene	16.46	276	12954	2.08	ng	# 90

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

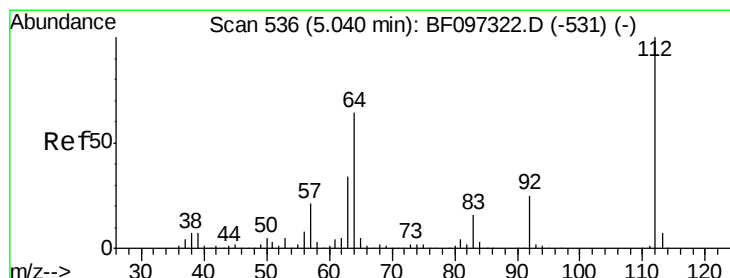
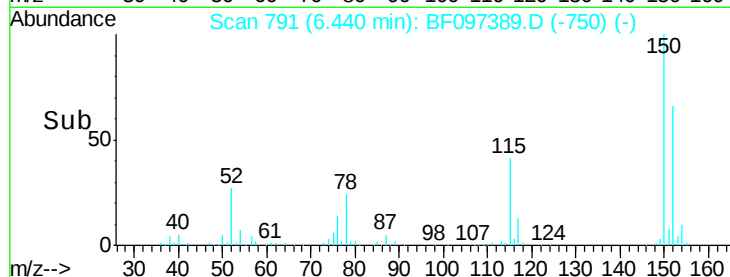
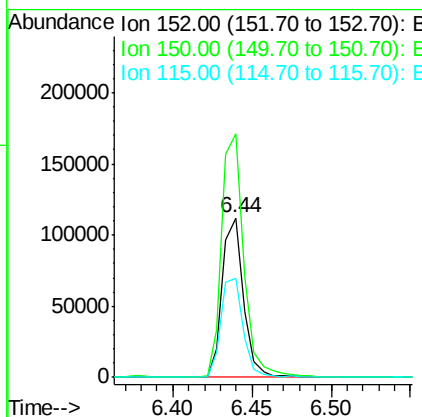
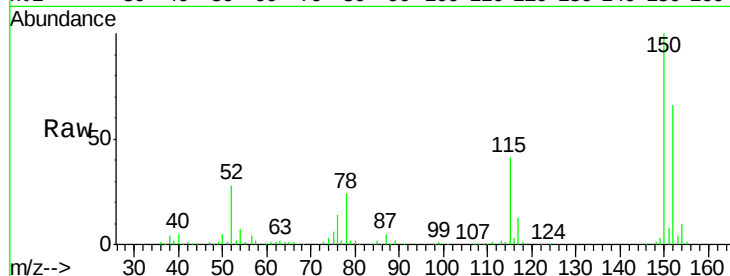


#1

1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.44 min Scan# 791
 Delta R.T. -0.06 min
 Lab File: BF097389.D
 Acq: 5 Aug 2017 7:22

Instrument :
 BNA_F
 ClientSampleId :
 E2-M8-ESW

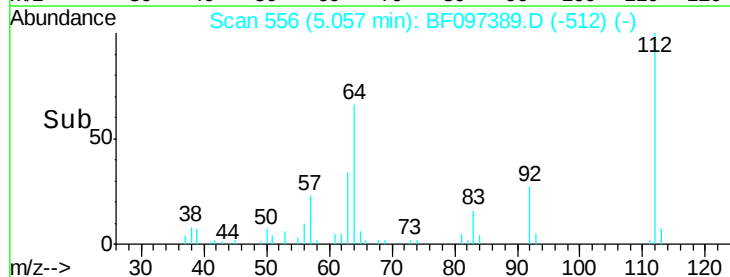
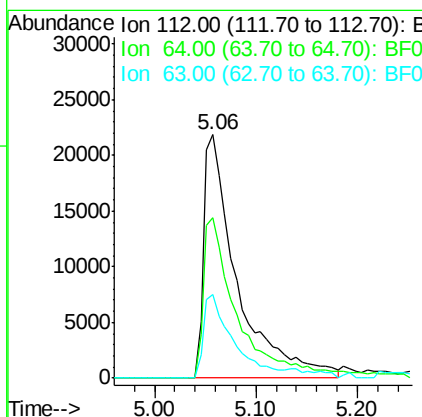
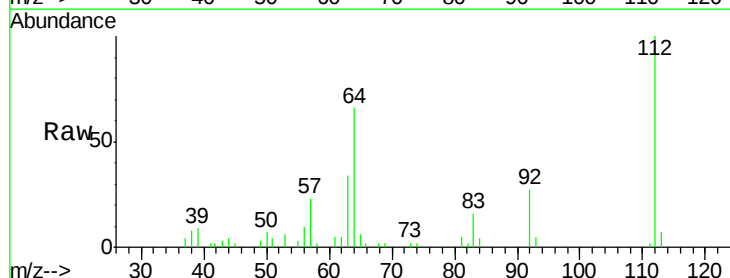
Tot Ion	152	Resp	104557
Ion	Ratio	Lower	Upper
152	100		
150	152.6	126.2	189.2
115	62.3	52.2	78.2

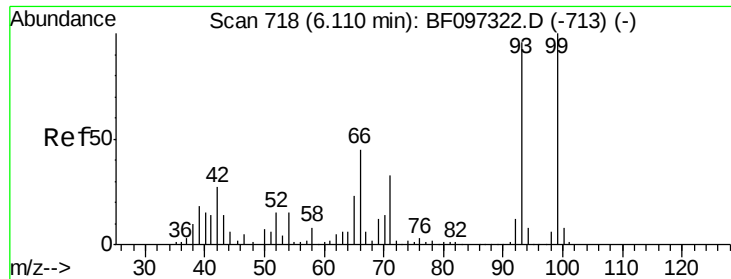


#5

2-Fluorophenol
 Concen: 7.20 ng
 RT: 5.06 min Scan# 556
 Delta R.T. -0.04 min
 Lab File: BF097389.D
 Acq: 5 Aug 2017 7:22

Tgt Ion	112	Resp	49949
Ion	Ratio	Lower	Upper
112	100		
64	65.8	46.0	69.0
63	34.2	23.4	35.0





#6

Aniline

Concen: 2.98 ng

RT: 6.18 min Scan# 747

Delta R.T. 0.02 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

Instrument :

BNA_F

ClientSampleId :

E2-M8-ESW

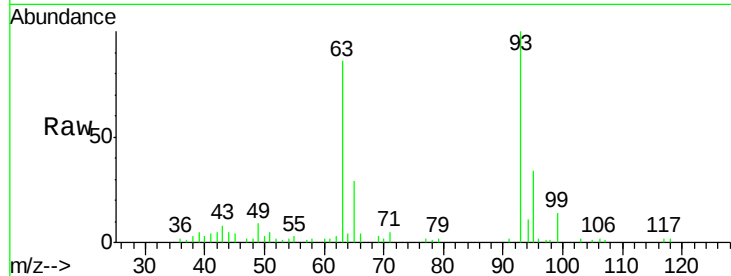
Tot Ion: 93 Resp: 29650

Ion Ratio Lower Upper

93 100

66 4.0 32.9 49.3#

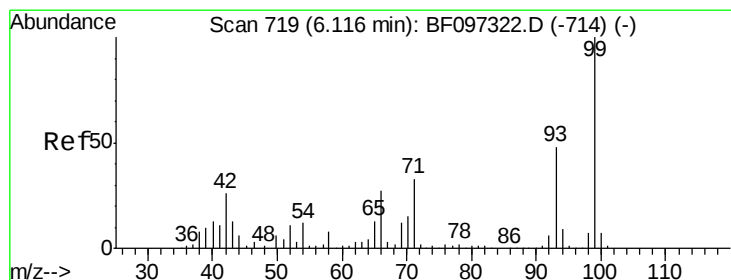
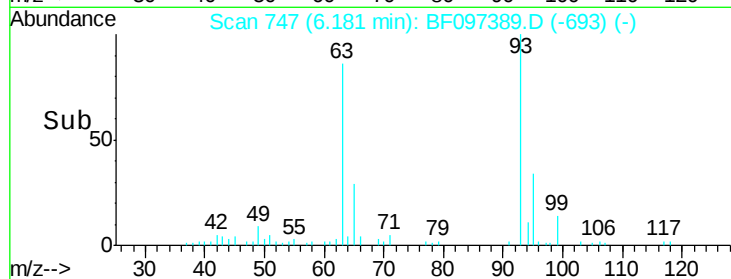
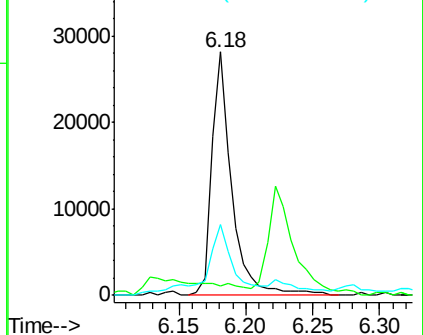
65 29.0 16.0 24.0#



Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0



#7

Phenol-d6

Concen: 8.39 ng

RT: 6.13 min Scan# 738

Delta R.T. -0.04 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

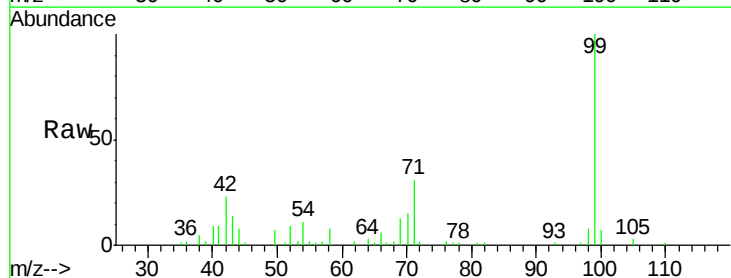
Tgt Ion: 99 Resp: 66464

Ion Ratio Lower Upper

99 100

42 22.7 13.5 20.3#

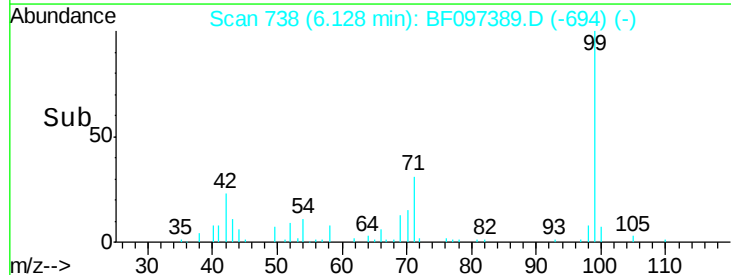
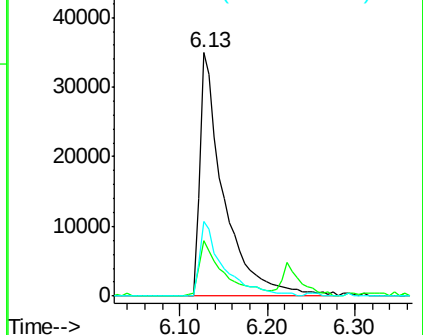
71 30.7 24.5 36.7

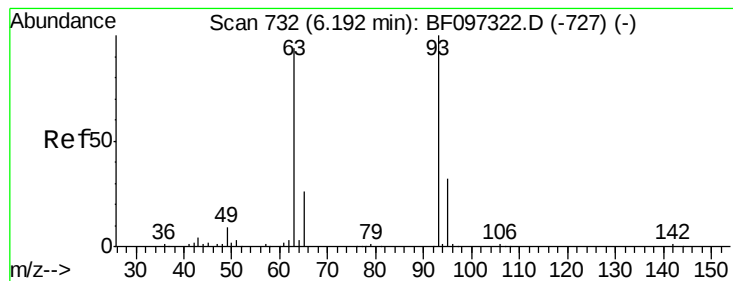


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#11

bis(2-Chloroethyl)ether

Concen: 3.99 ng

RT: 6.18 min Scan# 747

Delta R.T. -0.06 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

Instrument :

BNA_F

ClientSampleId :

E2-M8-ESW

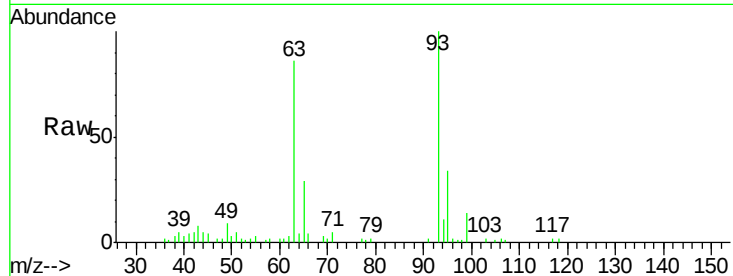
Tot Ion: 93 Resp: 29650

Ion Ratio Lower Upper

93 100

63 86.4 59.2 99.2

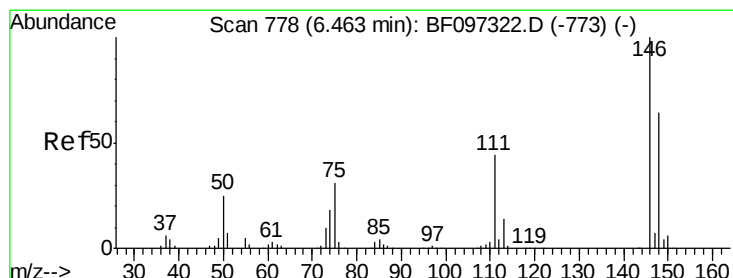
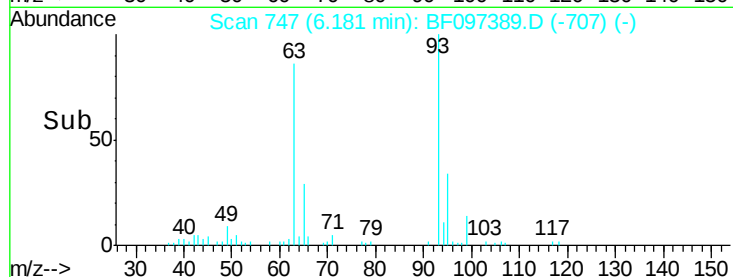
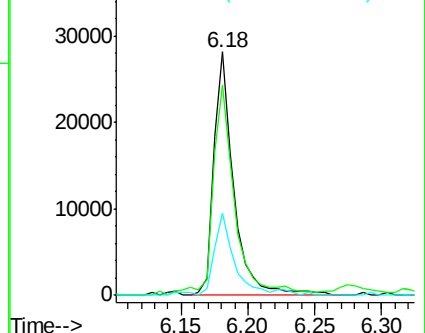
95 34.0 12.8 52.8



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



#13

1,4-Dichlorobenzene

Concen: 3.10 ng

RT: 6.46 min Scan# 794

Delta R.T. -0.06 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

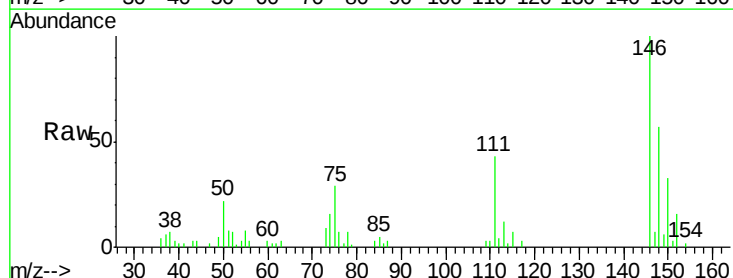
Tgt Ion: 146 Resp: 24552

Ion Ratio Lower Upper

146 100

148 57.4 52.2 78.2

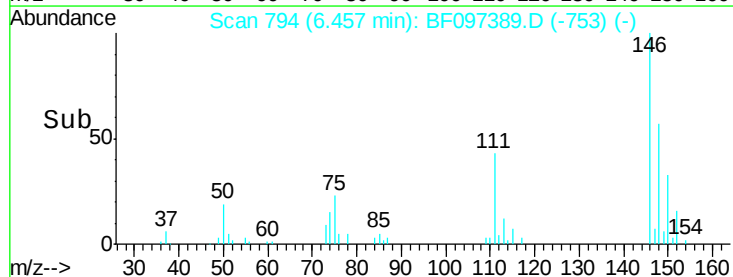
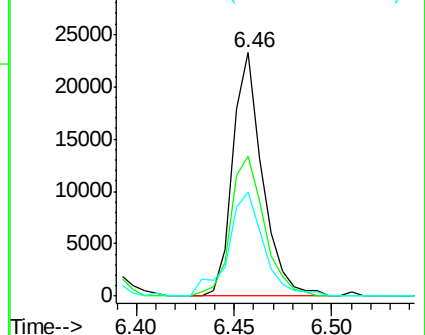
111 42.8 30.3 45.5

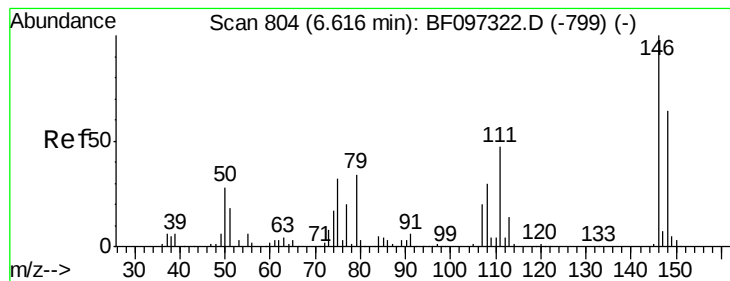


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E





#14

1,2-Dichlorobenzene

Concen: 7.17 ng

RT: 6.61 min Scan# 820

Delta R.T. -0.06 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

Instrument :

BNA_F

ClientSampleId :

E2-M8-ESW

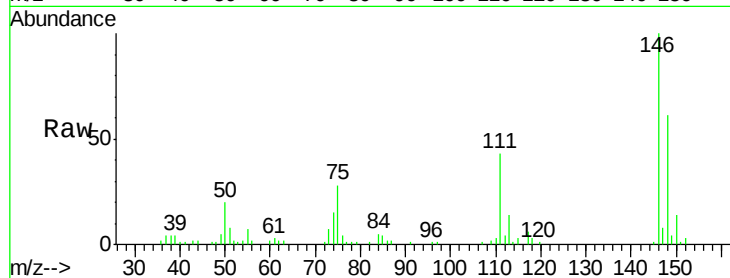
Tot Ion:146 Resp: 49603

Ion Ratio Lower Upper

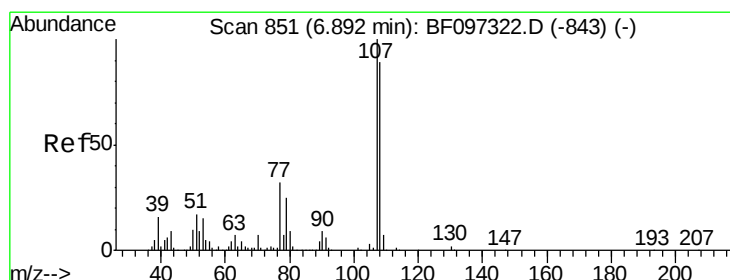
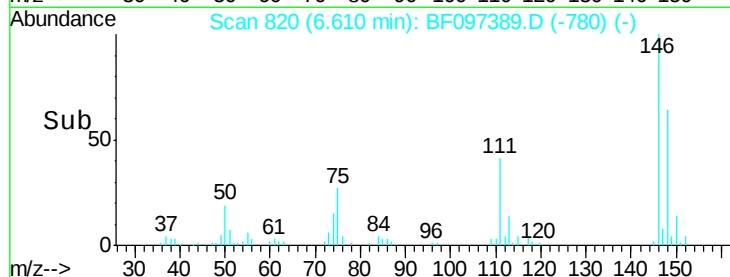
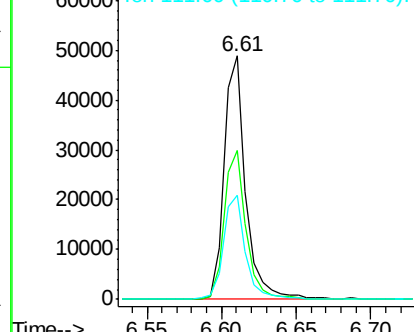
146 100

148 61.4 50.4 75.6

111 42.5 38.2 57.4



Abundance Ion 146.00 (145.70 to 146.70): E
Ion 148.00 (147.70 to 148.70): E
Ion 111.00 (110.70 to 111.70): E



#20

3+4-Methylphenols

Concen: 11.37 ng

RT: 6.91 min Scan# 871

Delta R.T. -0.04 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

Tgt Ion:107 Resp: 84989

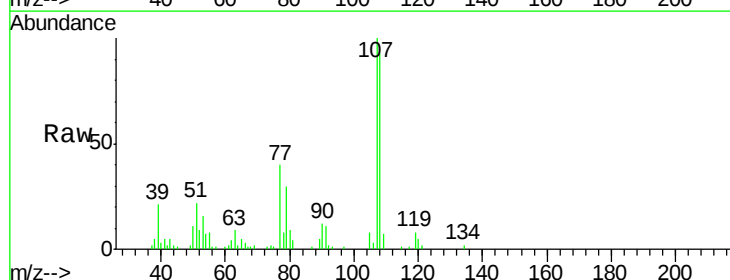
Ion Ratio Lower Upper

107 100

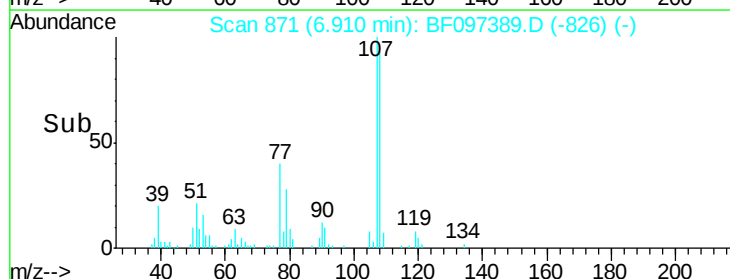
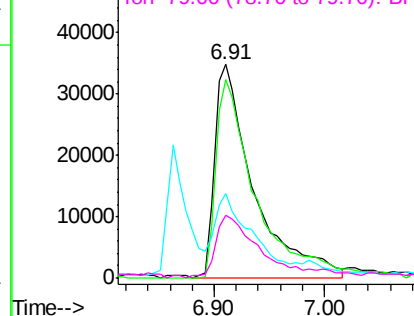
108 93.2 71.0 111.0

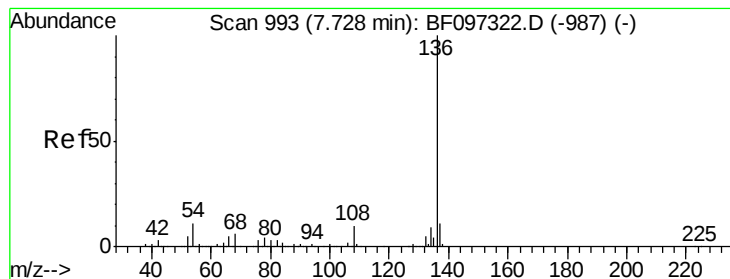
77 39.6 90.5 130.5#

79 29.6 8.4 48.4



Abundance Ion 107.00 (106.70 to 107.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 77.00 (76.70 to 77.70): BF0
Ion 79.00 (78.70 to 79.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.72 min Scan# 1009

Delta R.T. -0.06 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

Instrument :

BNA_F

ClientSampleId :

E2-M8-ESW

Tot Ion:136 Resp: 383251

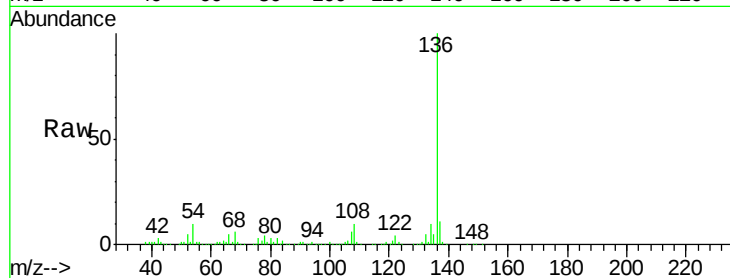
Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 10.4 4.9 7.3#

68 5.5 4.1 6.1

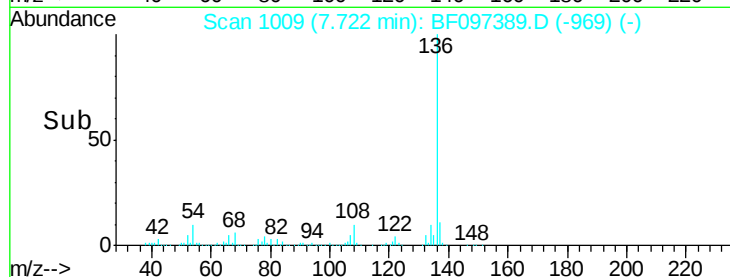


Abundance Ion 136.00 (135.70 to 136.70): E

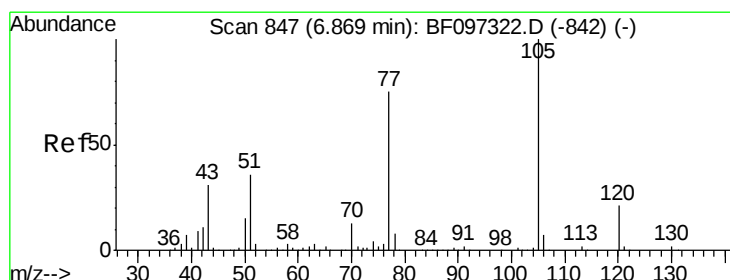
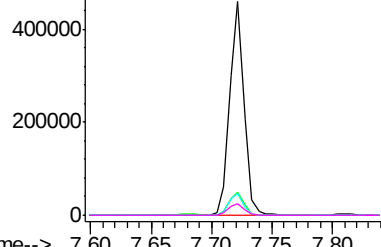
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#22

Acetophenone

Concen: 4.91 ng

RT: 6.86 min Scan# 863

Delta R.T. -0.06 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

Tgt Ion:105 Resp: 45189

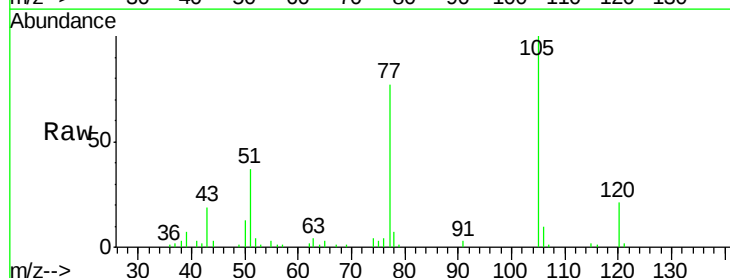
Ion Ratio Lower Upper

105 100

71 0.0 2.8 4.2#

51 37.3 30.7 46.1

120 21.4 17.4 26.0

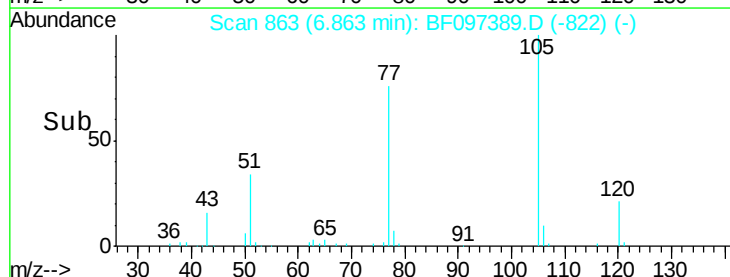


Abundance Ion 105.00 (104.70 to 105.70): E

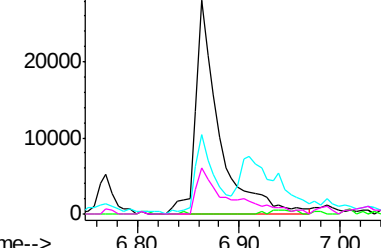
Ion 71.00 (70.70 to 71.70): BF0

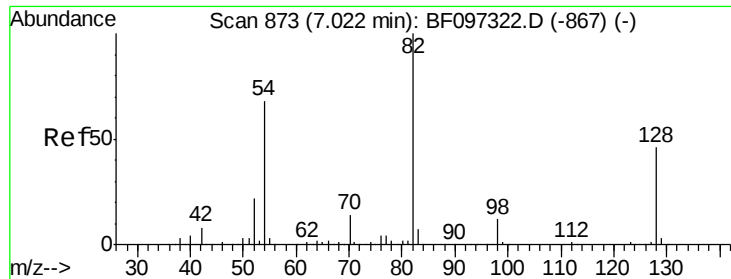
Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E



Time-->

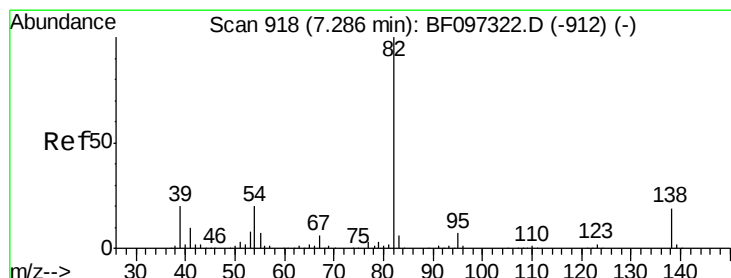
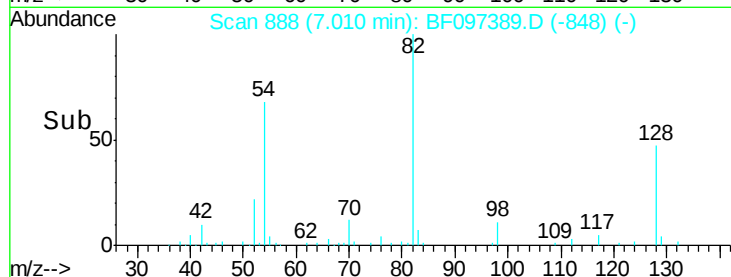
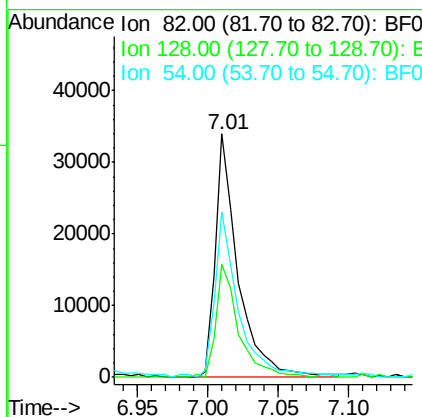
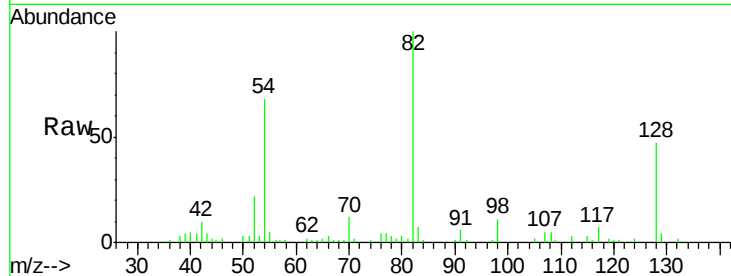




#23
 Nitrobenzene-d5
 Concen: 5.86 ng
 RT: 7.01 min Scan# 888
 Delta R.T. -0.06 min
 Lab File: BF097389.D
 Acq: 5 Aug 2017 7:22

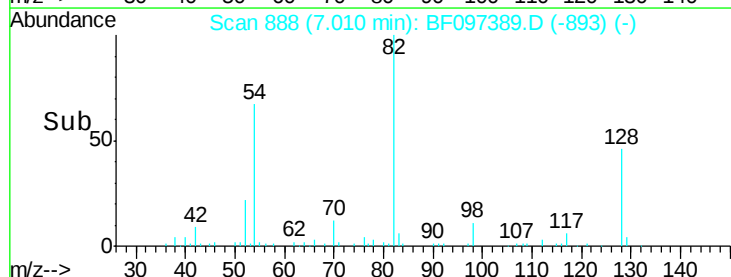
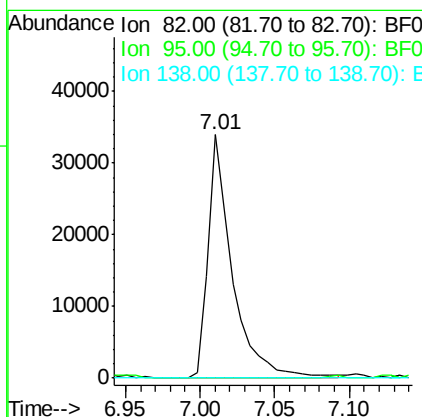
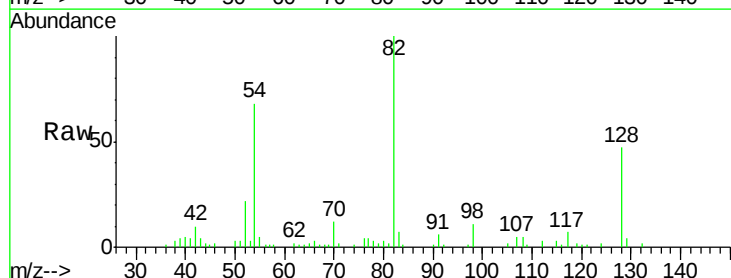
Instrument :
 BNA_F
 ClientSampleId :
 E2-M8-ESW

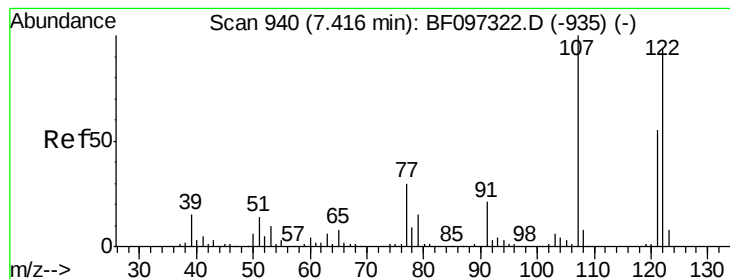
Tot Ion: 82 Resp: 38278
 Ion Ratio Lower Upper
 82 100
 128 46.5 34.0 51.0
 54 68.2 42.2 63.2#



#25
 Isophorone
 Concen: 2.99 ng
 RT: 7.01 min Scan# 888
 Delta R.T. -0.33 min
 Lab File: BF097389.D
 Acq: 5 Aug 2017 7:22

Tgt Ion: 82 Resp: 38277
 Ion Ratio Lower Upper
 82 100
 95 0.0 5.3 7.9#
 138 0.0 13.1 19.7#





#27

2,4-Dimethylphenol

Concen: 6.13 ng

RT: 7.42 min Scan# 958

Delta R.T. -0.05 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

Instrument :

BNA_F

ClientSampled :

E2-M8-ESW

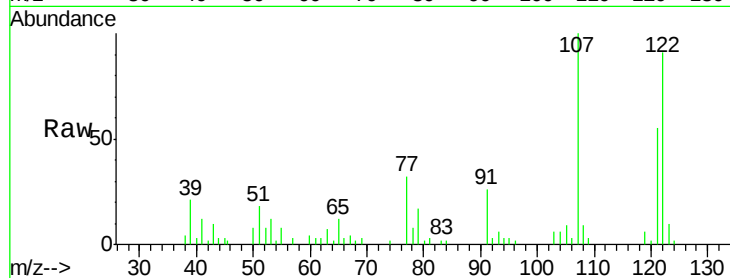
Tot Ion:122 Resp: 37246

Ion Ratio Lower Upper

122 100

107 109.5 89.2 133.8

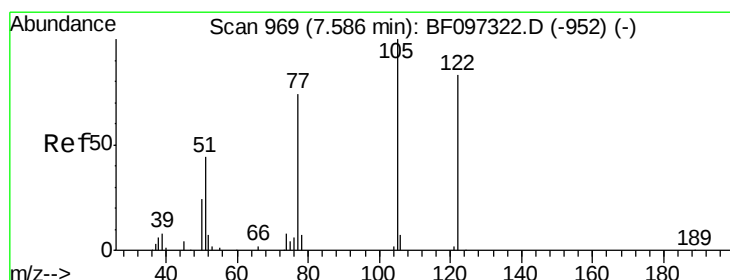
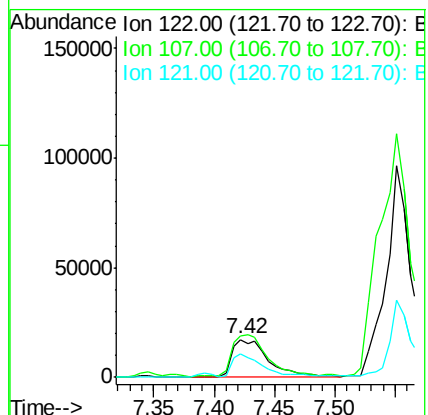
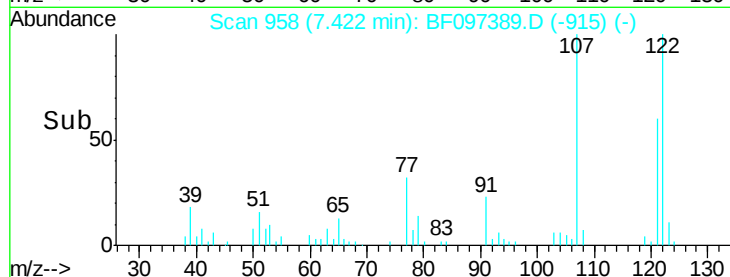
121 60.4 45.2 67.8



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#32

Benzoic acid

Concen: 33.07 ng

RT: 7.55 min Scan# 980

Delta R.T. -0.08 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

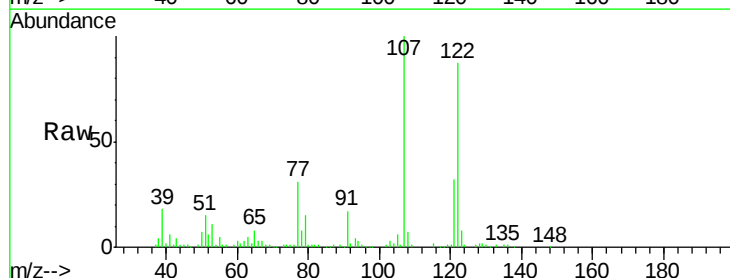
Tgt Ion:122 Resp: 149939

Ion Ratio Lower Upper

122 100

105 6.4 103.3 143.3#

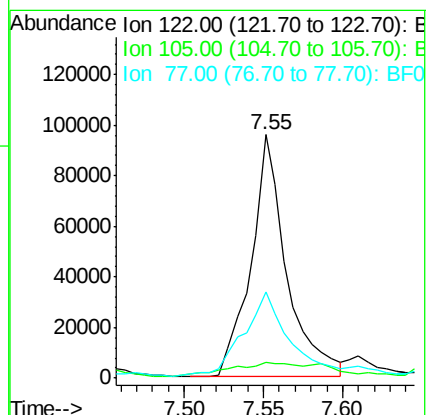
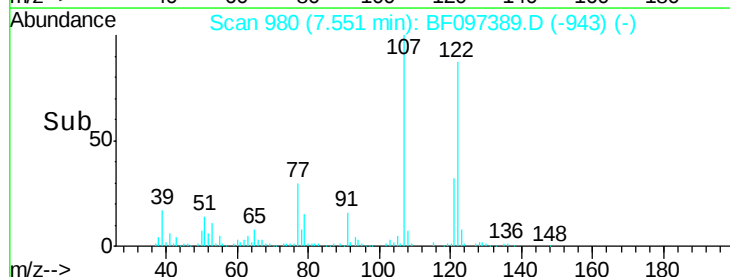
77 35.5 73.7 113.7#

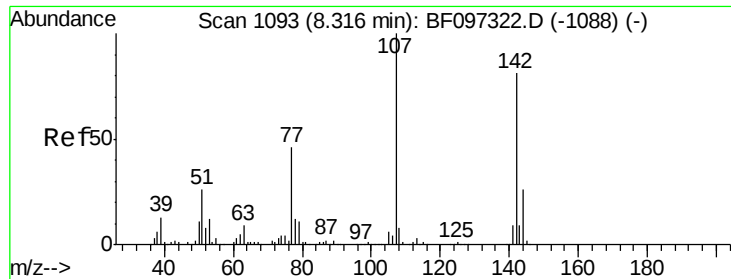


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0

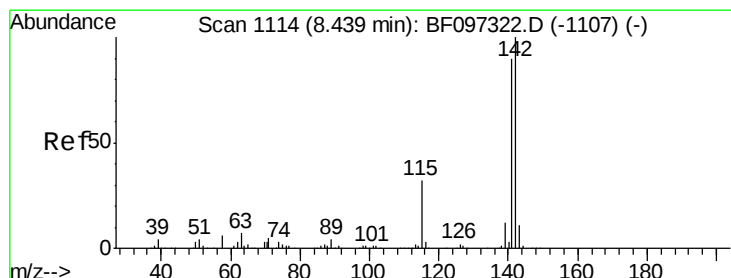
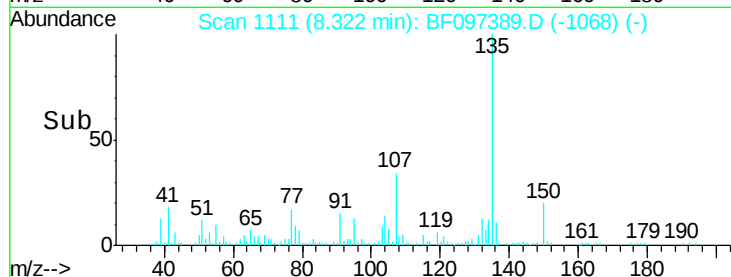
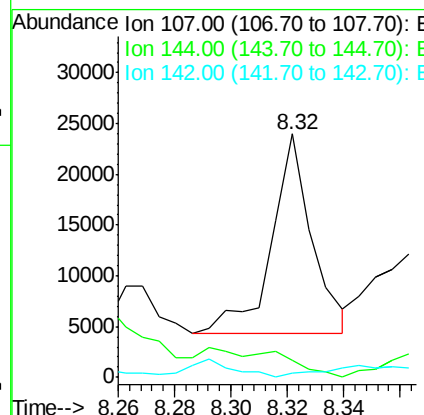
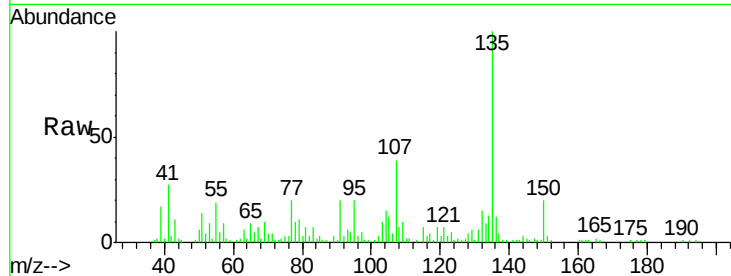




#36
 4-Chloro-3-methylphenol
 Concen: 3.41 ng
 RT: 8.32 min Scan# 1111
 Delta R.T. -0.05 min
 Lab File: BF097389.D
 Acq: 5 Aug 2017 7:22

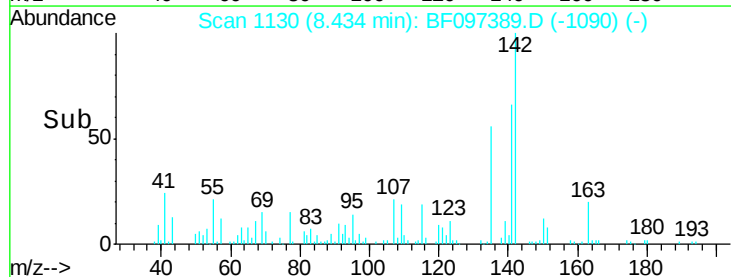
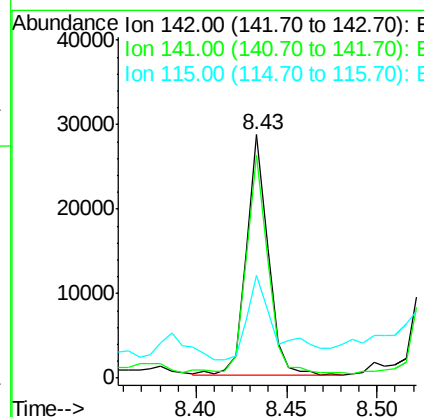
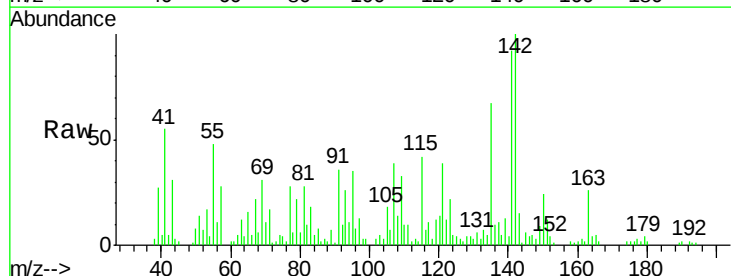
Instrument :
 BNA_F
 ClientSampleId :
 E2-M8-ESW

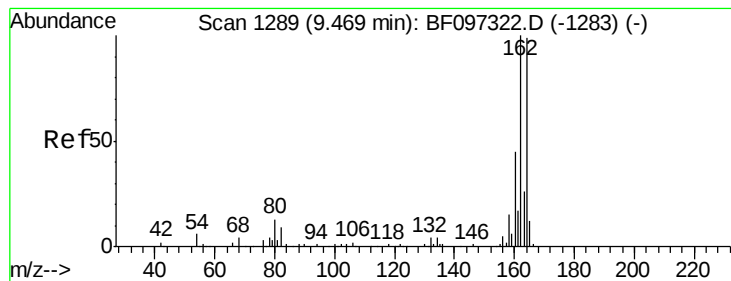
Tot Ion:107 Resp: 19437
 Ion Ratio Lower Upper
 107 100
 144 6.9 24.2 36.4#
 142 1.6 73.4 110.0#



#37
 2-Methylnaphthalene
 Concen: 2.09 ng
 RT: 8.43 min Scan# 1130
 Delta R.T. -0.06 min
 Lab File: BF097389.D
 Acq: 5 Aug 2017 7:22

Tgt Ion:142 Resp: 23897
 Ion Ratio Lower Upper
 142 100
 141 91.8 71.3 106.9
 115 42.2 27.1 40.7#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.46 min Scan# 1305

Delta R.T. -0.07 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

Instrument :

BNA_F

ClientSampleId :

E2-M8-ESW

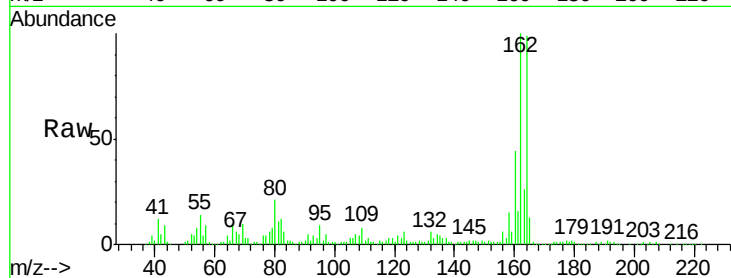
Tot Ion:164 Resp: 153205

Ion Ratio Lower Upper

164 100

162 100.6 82.6 123.8

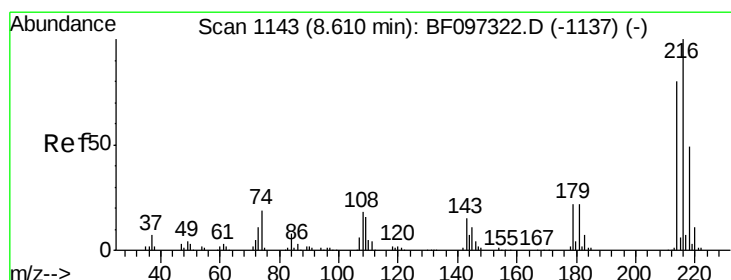
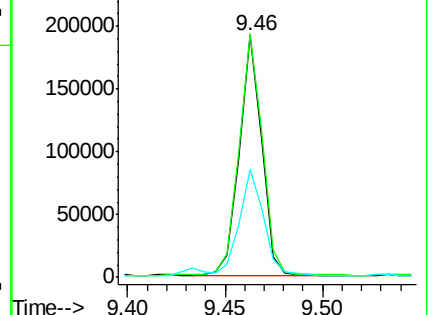
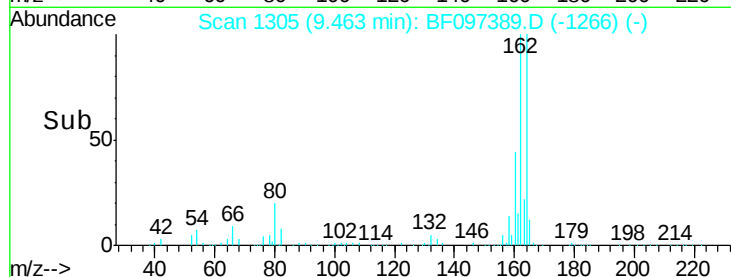
160 44.8 36.2 54.2



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



#39

1,2,4,5-Tetrachlorobenzene

Concen: 3.81 ng

RT: 8.59 min Scan# 1156

Delta R.T. -0.08 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

Tgt Ion:216 Resp: 15579

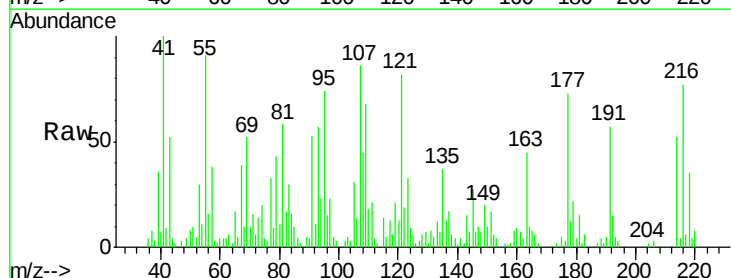
Ion Ratio Lower Upper

216 100

214 68.4 63.4 95.2

179 43.5 17.9 26.9#

108 43.5 16.5 24.7#

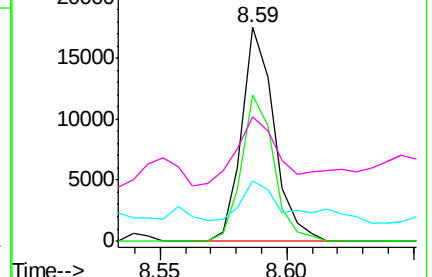
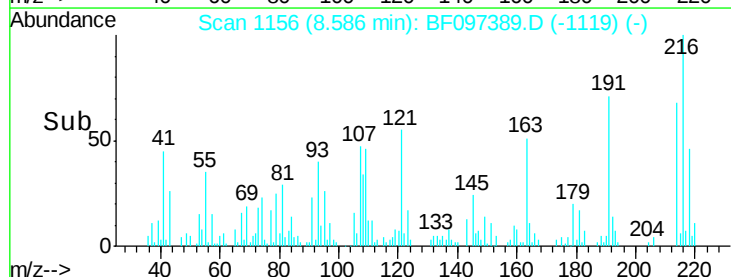


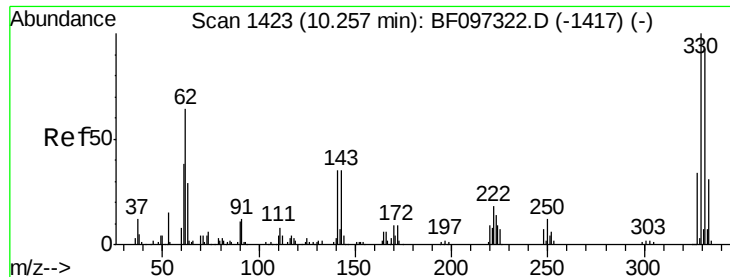
Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E





#41

2,4,6-Tribromophenol

Concen: 7.35 ng

RT: 10.25 min Scan# 1439

Delta R.T. -0.07 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

Instrument :

BNA_F

ClientSampleId :

E2-M8-ESW

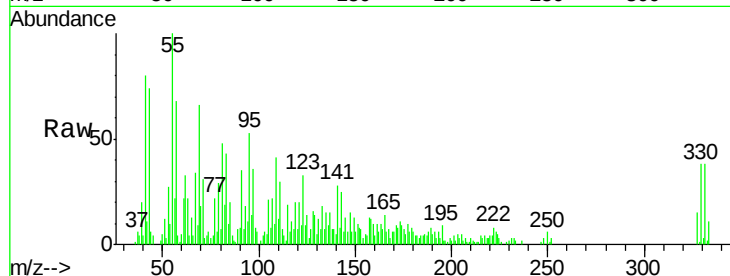
Tot Ion:330 Resp: 8899

Ion Ratio Lower Upper

330 100

332 96.4 76.6 115.0

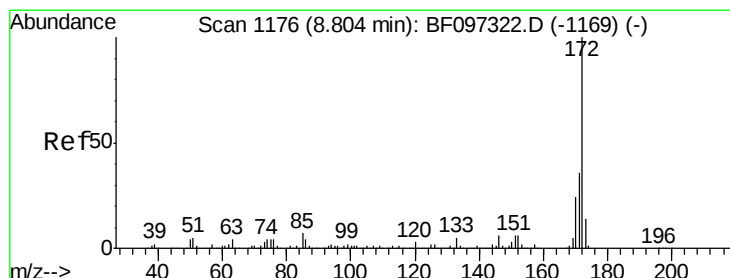
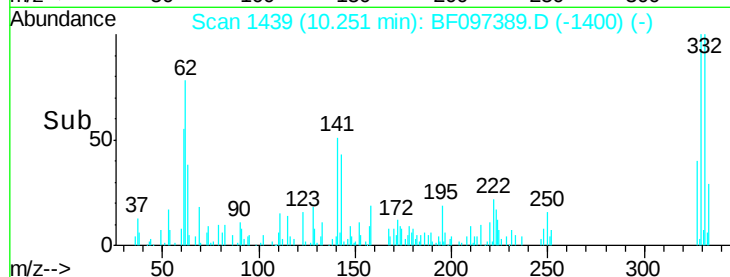
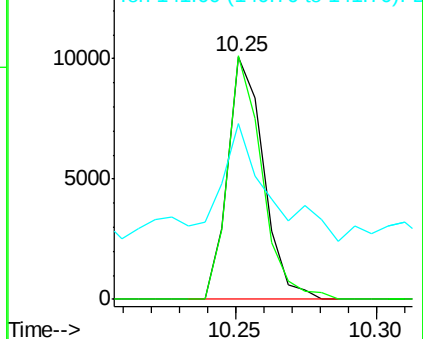
141 80.8 31.4 47.2#



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: 7.66 ng

RT: 8.80 min Scan# 1192

Delta R.T. -0.07 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

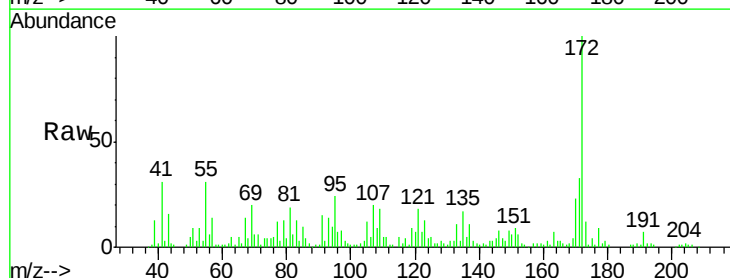
Tgt Ion:172 Resp: 69124

Ion Ratio Lower Upper

172 100

171 33.2 29.6 44.4

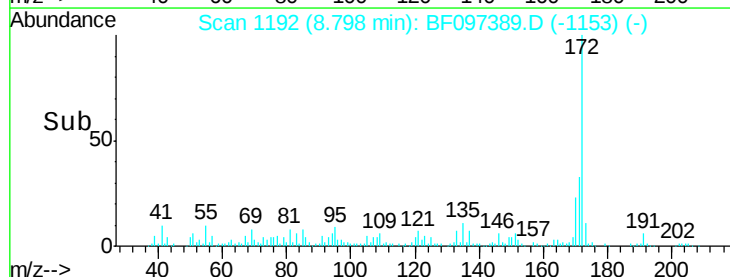
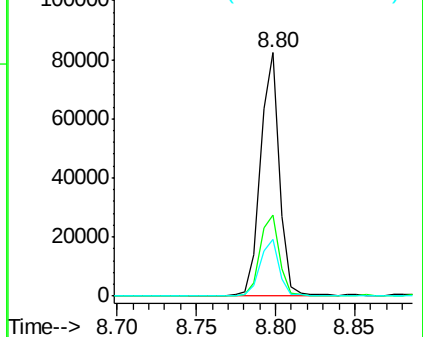
170 23.1 19.8 29.8

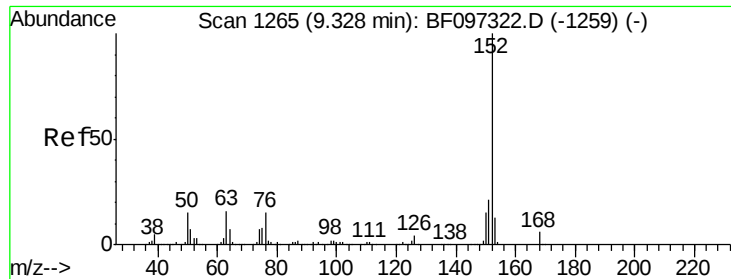


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 2.36 ng

RT: 9.33 min Scan# 1282

Delta R.T. -0.06 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

Instrument :

BNA_F

ClientSampleId :

E2-M8-ESW

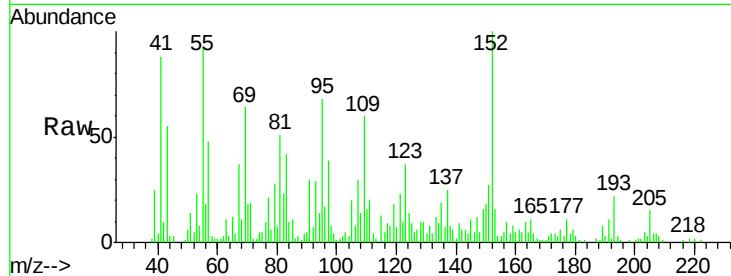
Tot Ion:152 Resp: 34917

Ion Ratio Lower Upper

152 100

151 27.1 16.8 25.2#

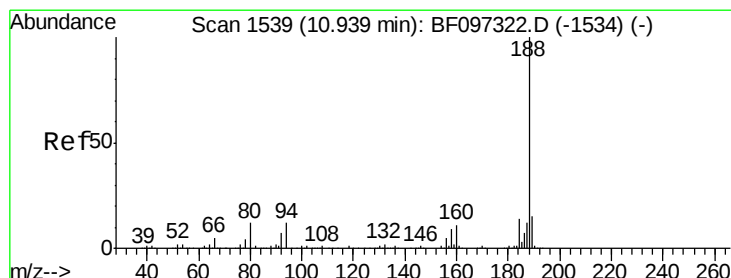
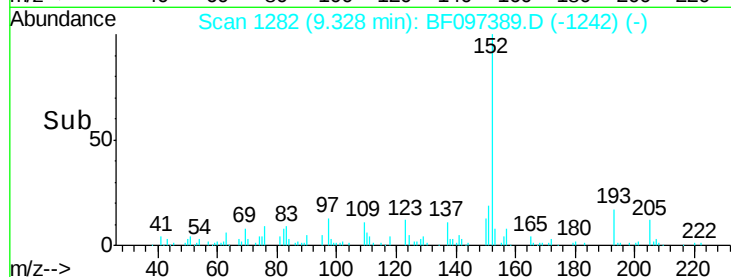
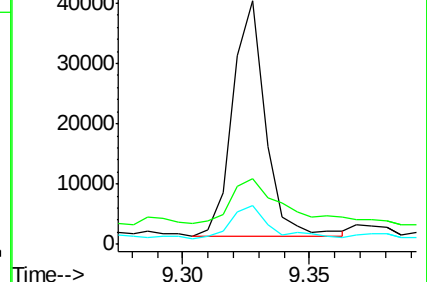
153 15.9 10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 10.93 min Scan# 1555

Delta R.T. -0.07 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

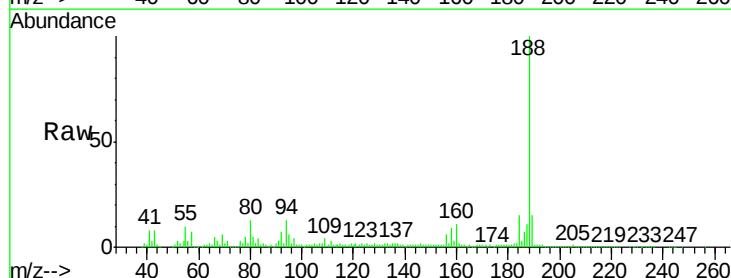
Tgt Ion:188 Resp: 208090

Ion Ratio Lower Upper

188 100

94 12.7 9.4 14.2

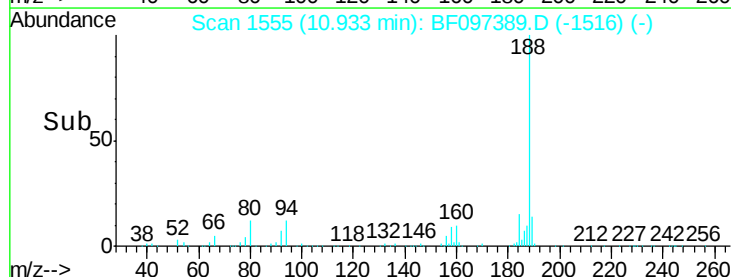
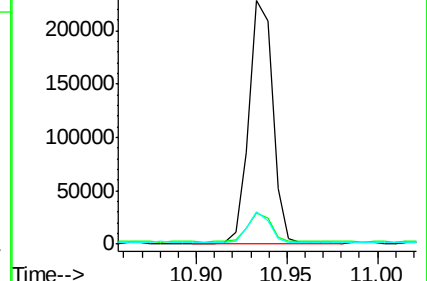
80 13.3 10.2 15.2

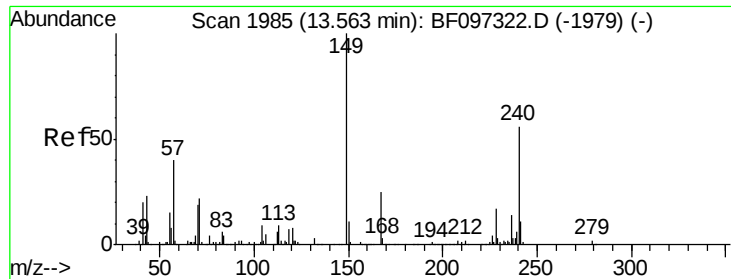


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.56 min Scan# 2001

Delta R.T. -0.07 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

Instrument :

BNA_F

ClientSampleId :

E2-M8-ESW

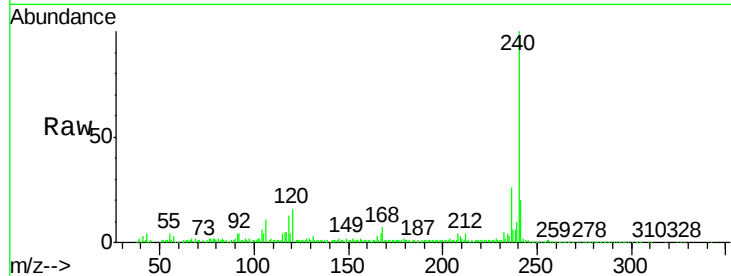
Tot Ion:240 Resp: 169073

Ion Ratio Lower Upper

240 100

120 16.2 5.8 8.8#

236 26.2 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

250000

200000

150000

100000

50000

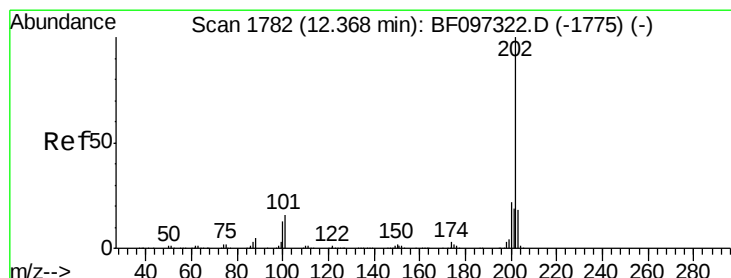
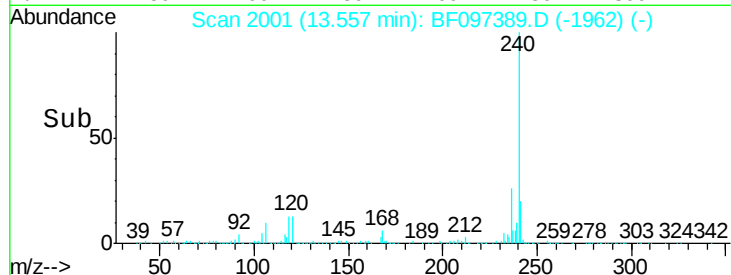
0

13.56

13.55

13.60

Time-->



#77

Pyrene

Concen: 2.09 ng

RT: 12.36 min Scan# 1798

Delta R.T. -0.07 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

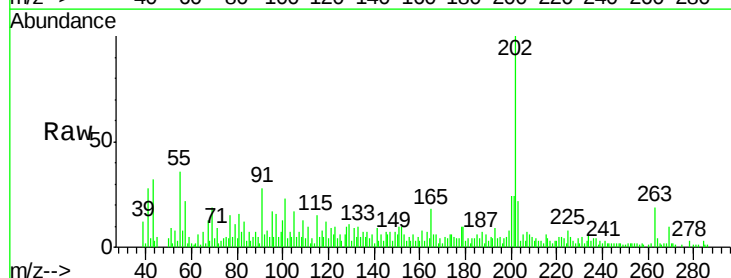
Tgt Ion:202 Resp: 28963

Ion Ratio Lower Upper

202 100

200 23.9 17.6 26.4

203 22.1 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

40000

30000

20000

10000

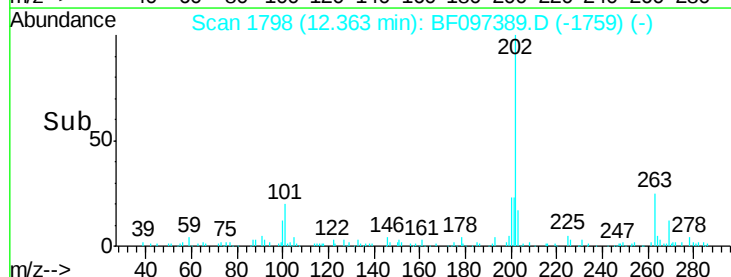
0

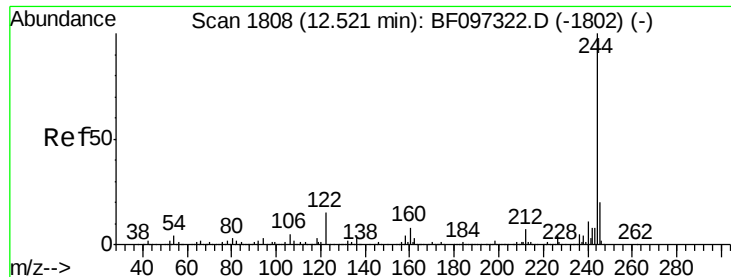
12.36

12.35

12.40

Time-->





#78

Terphenyl-d14

Concen: 4.66 ng

RT: 12.52 min Scan# 1824

Delta R.T. -0.07 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

Instrument :

BNA_F

ClientSampleId :

E2-M8-ESW

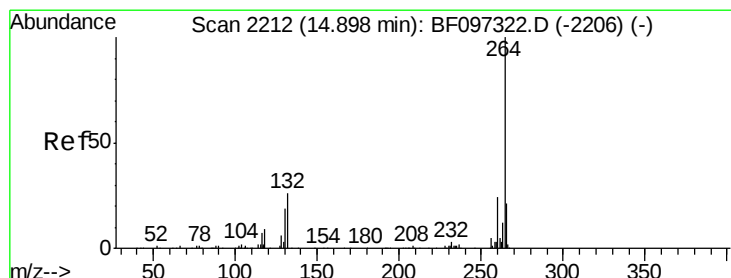
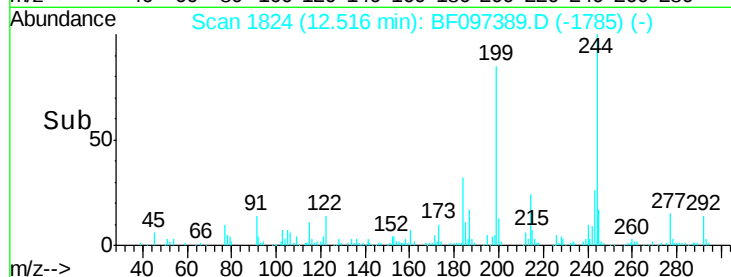
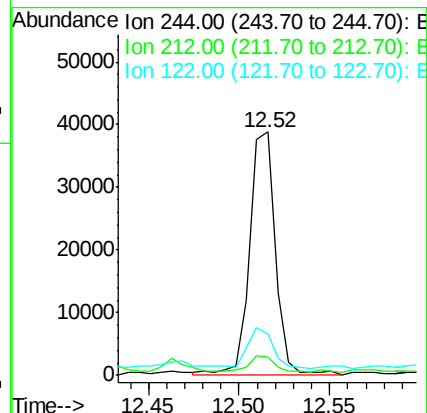
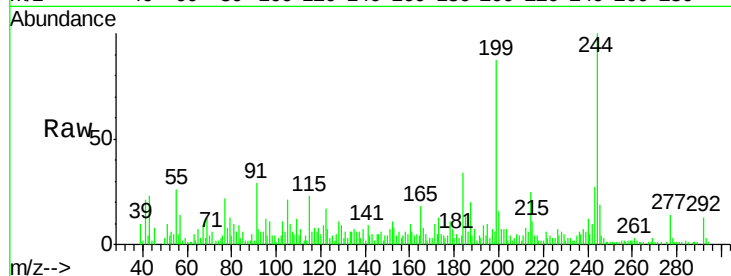
Tot Ion:244 Resp: 38619

Ion Ratio Lower Upper

244 100

212 7.6 6.0 9.0

122 16.9 10.3 15.5#



#86

Perylene-d12

Concen: 20.00 ng

RT: 14.90 min Scan# 2229

Delta R.T. -0.08 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

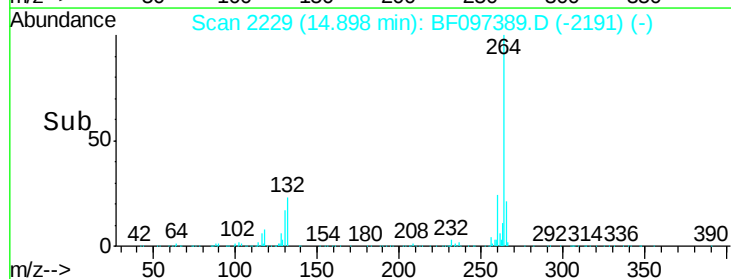
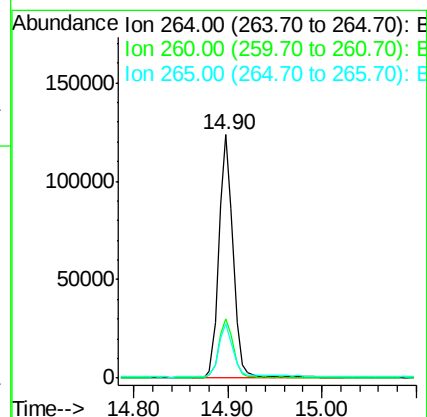
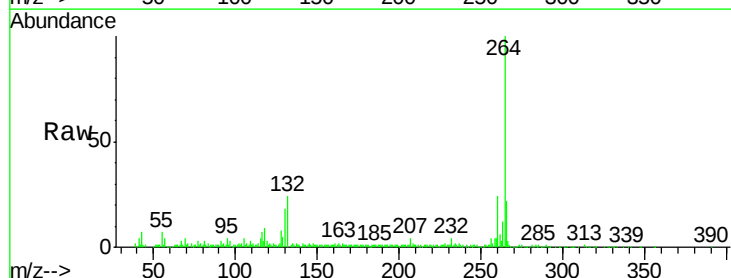
Tgt Ion:264 Resp: 131655

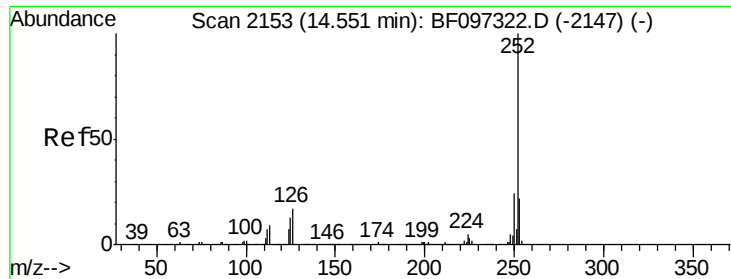
Ion Ratio Lower Upper

264 100

260 24.4 19.5 29.3

265 22.1 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 5.19 ng

RT: 14.55 min Scan# 2170

Delta R.T. -0.06 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

Instrument :

BNA_F

ClientSampleId :

E2-M8-ESW

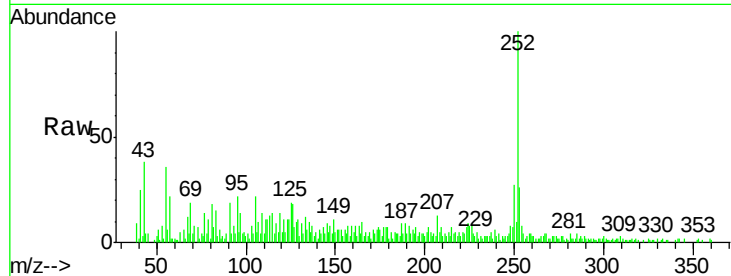
Tot Ion:252 Resp: 41077

Ion Ratio Lower Upper

252 100

253 26.2 18.1 27.1

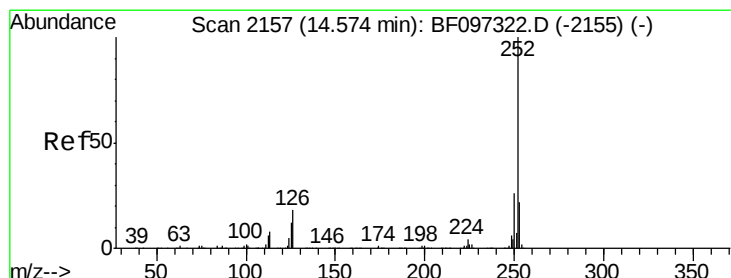
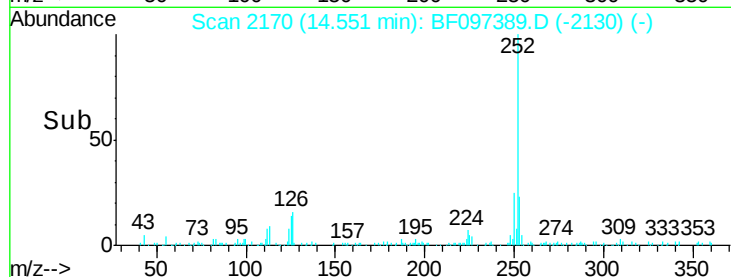
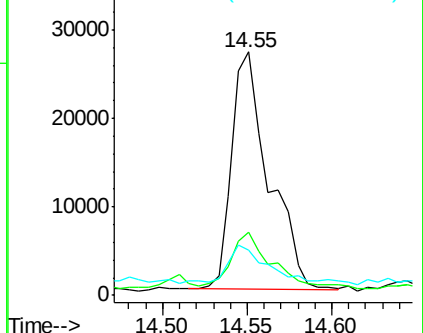
125 18.8 9.8 14.8#



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



#88

Benzo(k)fluoranthene

Concen: 5.45 ng

RT: 14.55 min Scan# 2170

Delta R.T. -0.09 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

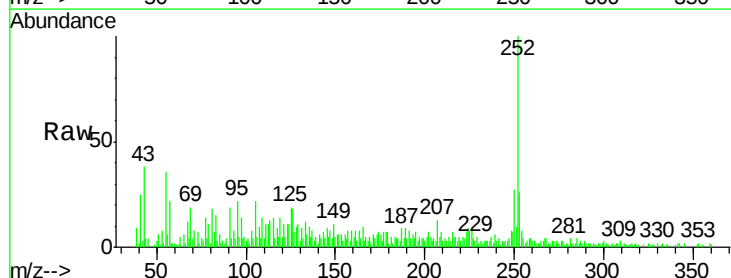
Tgt Ion:252 Resp: 41077

Ion Ratio Lower Upper

252 100

253 26.2 18.4 27.6

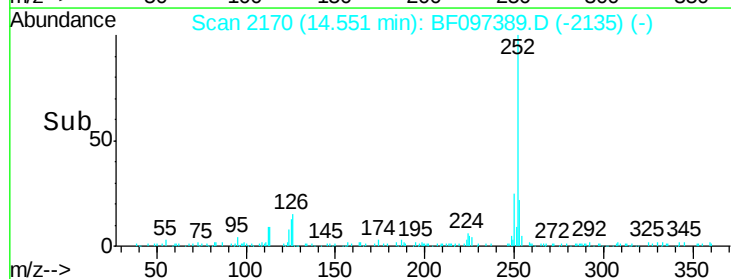
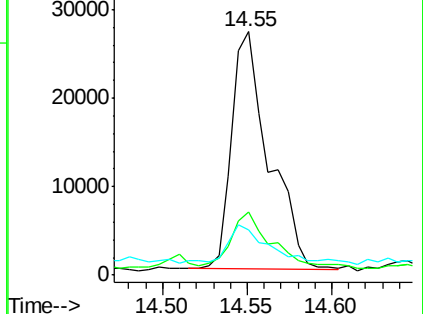
125 18.8 13.1 19.7

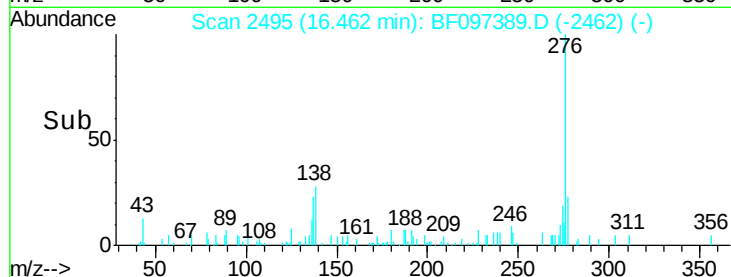
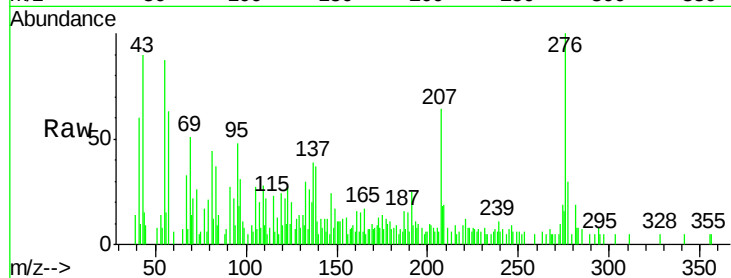
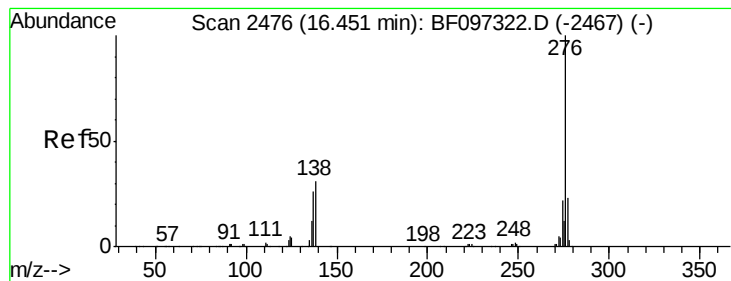


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(a,h,i)perylene

Concen: 2.08 ng

RT: 16.46 min Scan# 2495

Delta R.T. -0.11 min

Lab File: BF097389.D

Acq: 5 Aug 2017 7:22

Instrument :

BNA_F

ClientSampleId :

E2-M8-ESW

Tot Ion: 276 Resp: 12954

Ion Ratio Lower Upper

276 100

277 29.5 18.6 28.0#

138 36.6 25.4 38.0

