

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082117\
 Data File : BF097929.D
 Acq On : 22 Aug 2017 2:21
 Operator : SJ/JU
 Sample : I4892-01 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-081817

Quant Time: Aug 22 04:13:32 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 21 15:59:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.75	152	103509	20.00	ng	0.00
21) Naphthalene-d8	8.03	136	358530	20.00	ng	0.00
38) Acenaphthene-d10	9.79	164	143342	20.00	ng	0.00
63) Phenanthrene-d10	11.26	188	257320	20.00	ng	0.00
75) Chrysene-d12	13.90	240	219549	20.00	ng	0.00
86) Perylene-d12	15.32	264	140214	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	158708	23.32	ng	0.00
7) Phenol-d6	6.37	99	206056	22.29	ng	-0.01
23) Nitrobenzene-d5	7.31	82	116285	17.62	ng	-0.01
41) 2,4,6-Tribromophenol	10.57	330	24581	19.76	ng	0.00
44) 2-Fluorobiphenyl	9.11	172	155991	15.99	ng	0.00
78) Terphenyl-d14	12.85	244	120017	11.40	ng	0.00

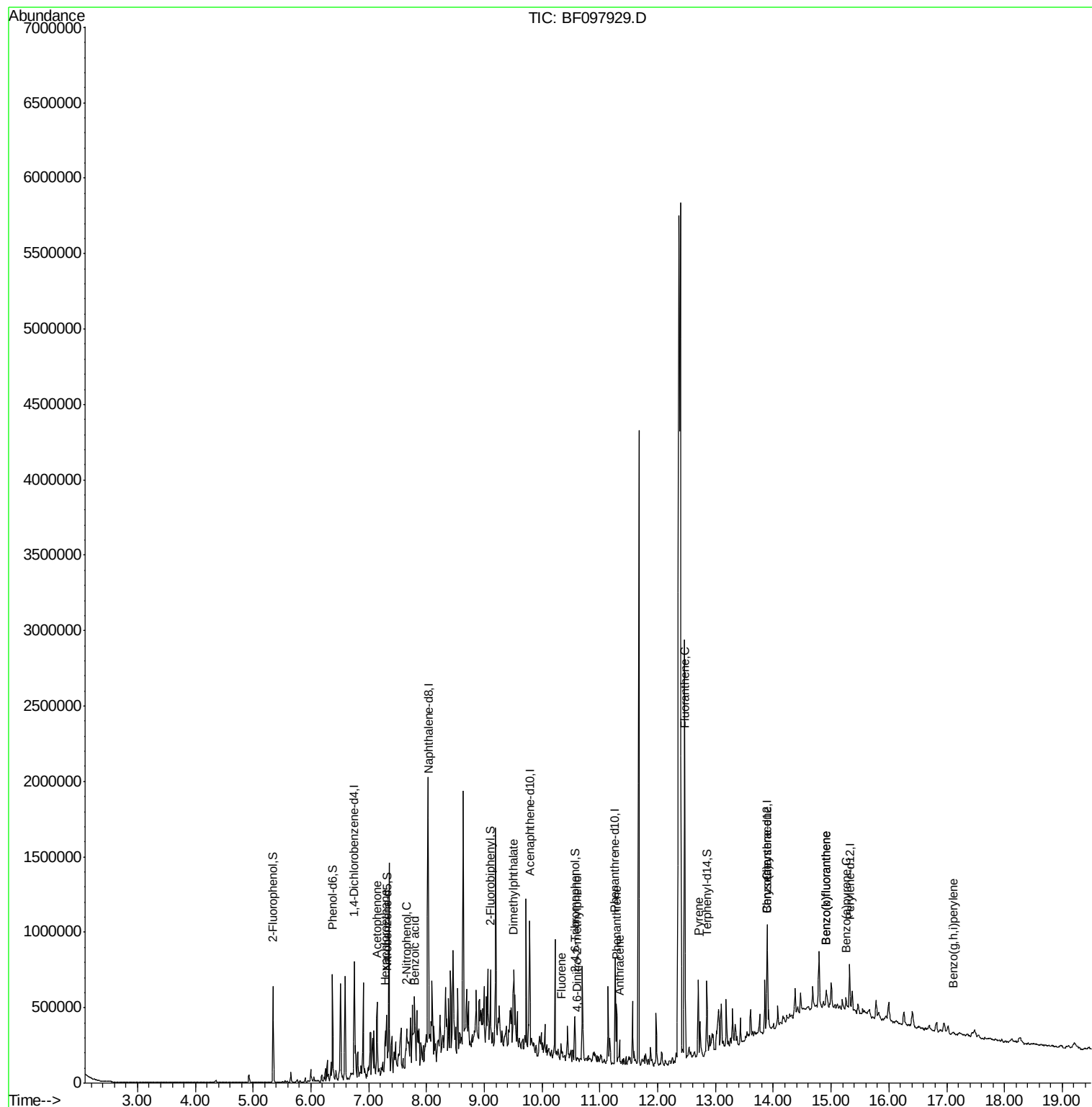
Target Compounds						Qvalue
18) Hexachloroethane	7.29	117	9941	3.23	ng	# 1
22) Acetophenone	7.15	105	45827	4.84	ng	# 40
26) 2-Nitrophenol	7.65	139	1191	5.66	ng	# 1
32) Benzoic acid	7.81	122	407	6.49	ng	# 1
49) Dimethylphthalate	9.50	163	39918	3.81	ng	# 97
57) Fluorene	10.33	166	19969	2.01	ng	# 97
64) 4,6-Dinitro-2-methylphenol	10.60	198	108	8.39	ng	# 1
70) Phenanthrene	11.29	178	128768	9.39	ng	99
71) Anthracene	11.34	178	46686	3.36	ng	99
74) Fluoranthene	12.47	202	181131	12.66	ng	97
77) Pyrene	12.70	202	165271	9.20	ng	97
80) Benzo(a)anthracene	13.89	228	66966	5.09	ng	96
82) Chrysene	13.89	228	66966	5.12	ng	96
87) Benzo(b)fluoranthene	14.92	252	66268	7.50	ng	# 86
88) Benzo(k)fluoranthene	14.92	252	66268	7.98	ng	# 90
89) Benzo(a)pyrene	15.26	252	34286	4.38	ng	# 84
91) Benzo(a,h,i)perylene	17.12	276	17289	2.60	ng	# 93

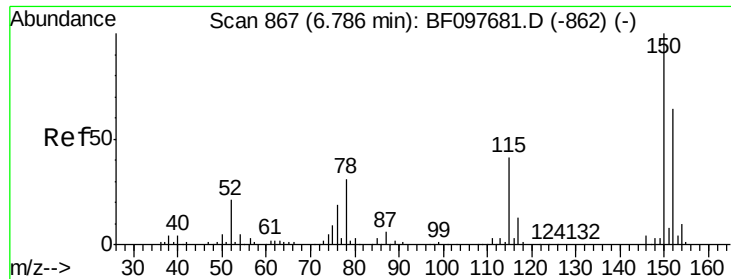
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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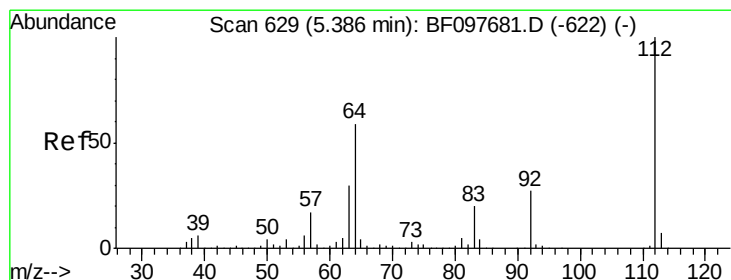
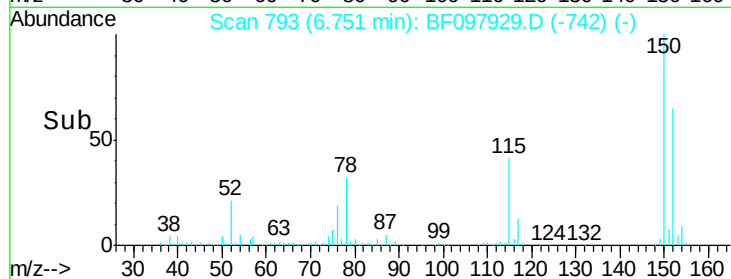
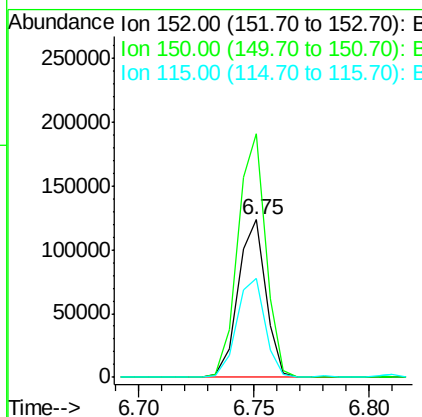
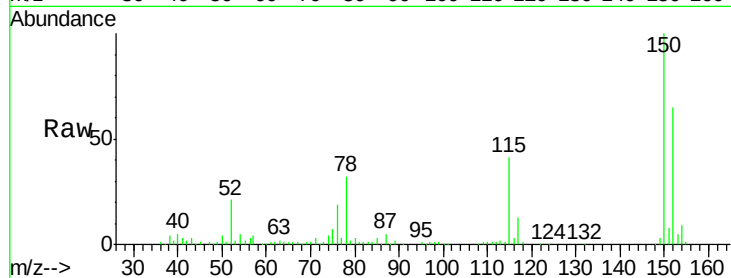




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.75 min Scan# 793
 Delta R.T. -0.00 min
 Lab File: BF097929.D
 Acq: 22 Aug 2017 2:21

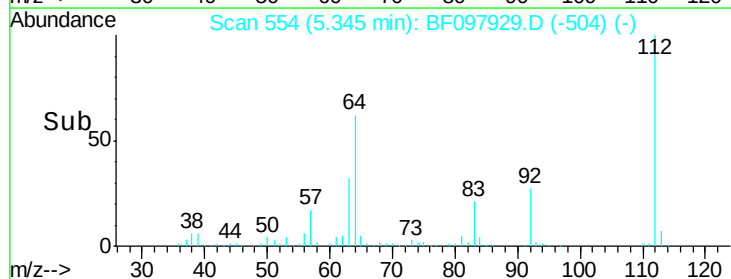
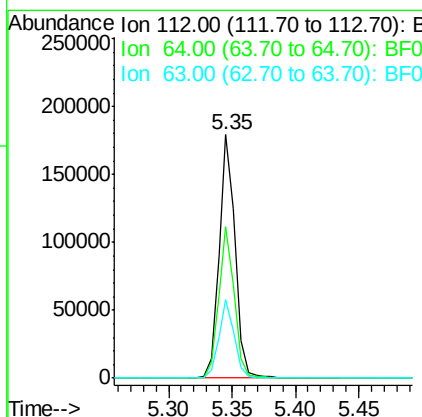
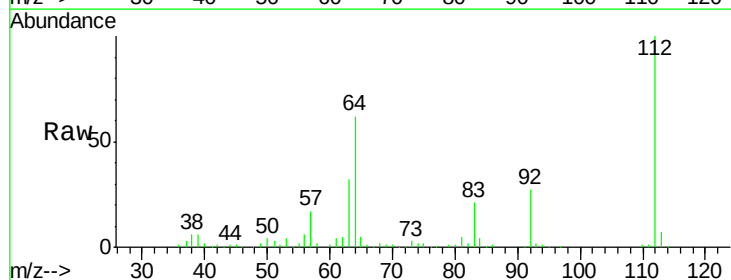
Instrument :
 BNA_F
 ClientSampleId :
 HR-06-081817

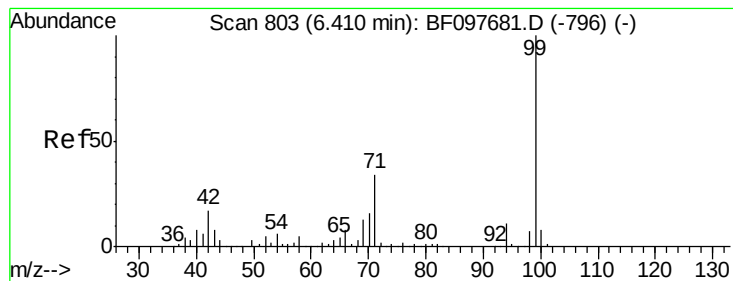
Tot Ion:152 Resp: 103509
 Ion Ratio Lower Upper
 152 100
 150 154.8 126.2 189.2
 115 62.8 52.2 78.2



#5
 2-Fluorophenol
 Concen: 23.32 ng
 RT: 5.35 min Scan# 554
 Delta R.T. -0.01 min
 Lab File: BF097929.D
 Acq: 22 Aug 2017 2:21

Tgt Ion:112 Resp: 158708
 Ion Ratio Lower Upper
 112 100
 64 62.0 46.0 69.0
 63 32.1 23.4 35.0





#7

Phenol-d6

Concen: 22.29 ng

RT: 6.37 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

Instrument :

BNA_F

ClientSampleId :

HR-06-081817

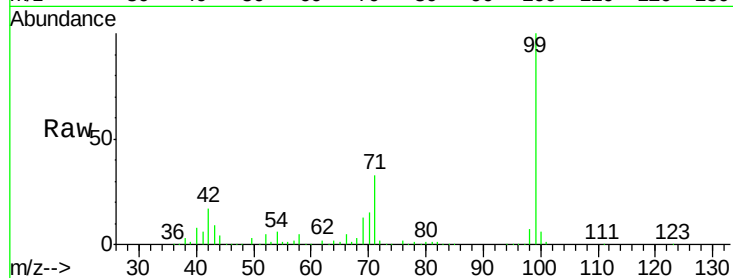
Tot Ion: 99 Resp: 206056

Ion Ratio Lower Upper

99 100

42 16.6 13.5 20.3

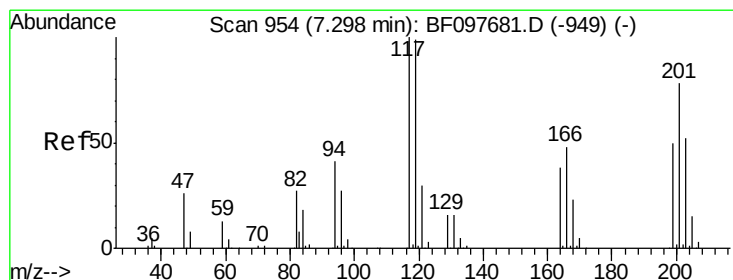
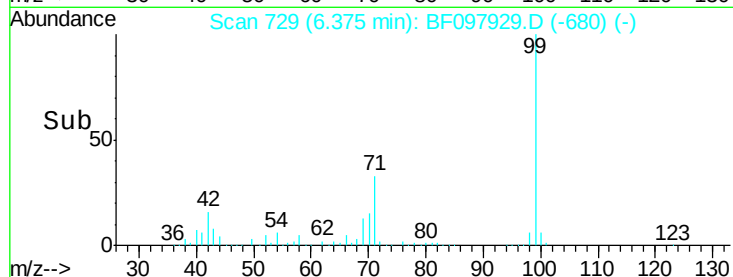
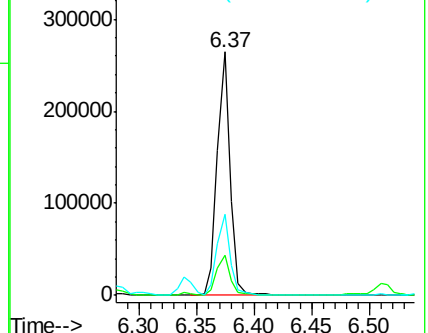
71 33.3 24.5 36.7



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



#18

Hexachloroethane

Concen: 3.23 ng

RT: 7.29 min Scan# 884

Delta R.T. 0.02 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

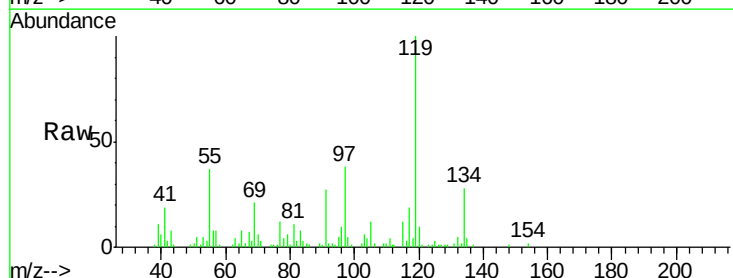
Tgt Ion: 117 Resp: 9941

Ion Ratio Lower Upper

117 100

119 526.8 77.4 116.0#

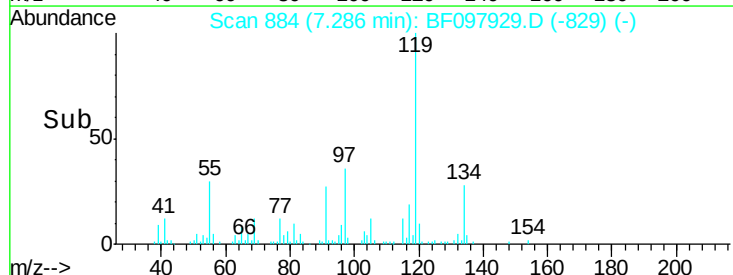
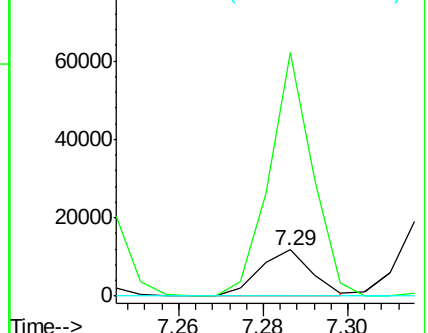
201 0.0 94.6 141.8#

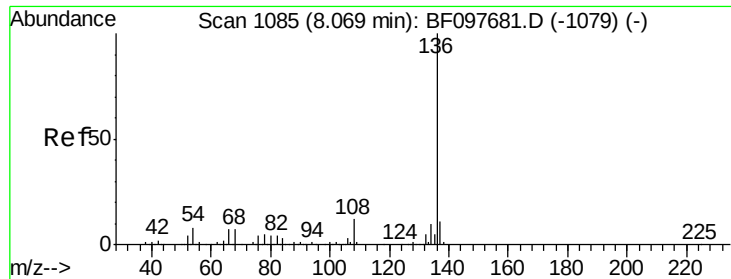


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.03 min Scan# 1011

Delta R.T. -0.00 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

Instrument :

BNA_F

ClientSampleId :

HR-06-081817

Tot Ion:136 Resp: 358530

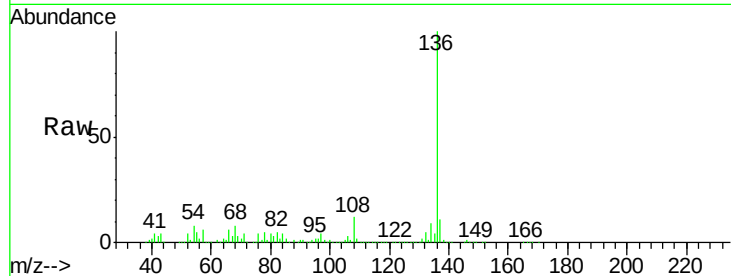
Ion Ratio Lower Upper

136 100

137 11.2 8.5 12.7

54 8.0 4.9 7.3#

68 7.7 4.1 6.1#

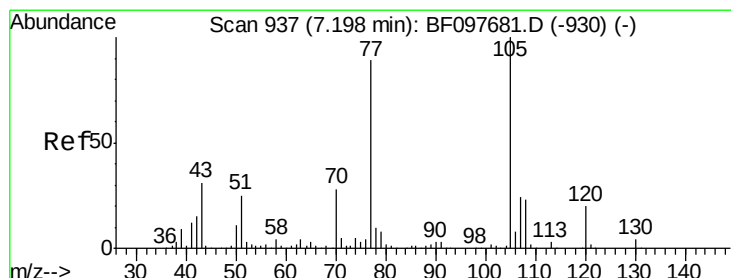
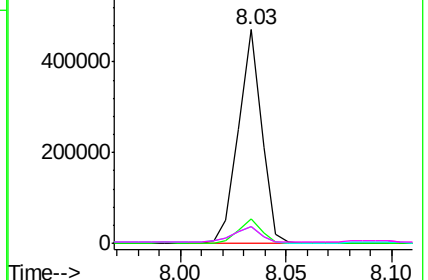
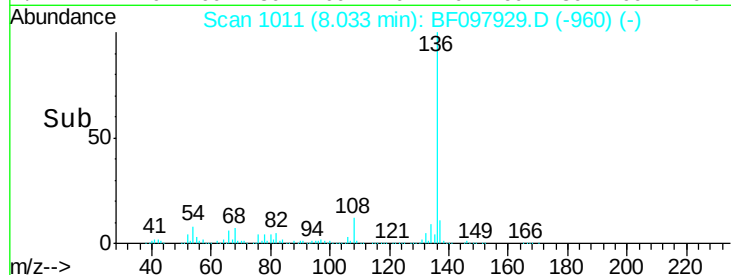


Abundance Ion 136.00 (135.70 to 136.70): E

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



#22

Acetophenone

Concen: 4.84 ng

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

Tgt Ion:105 Resp: 45827

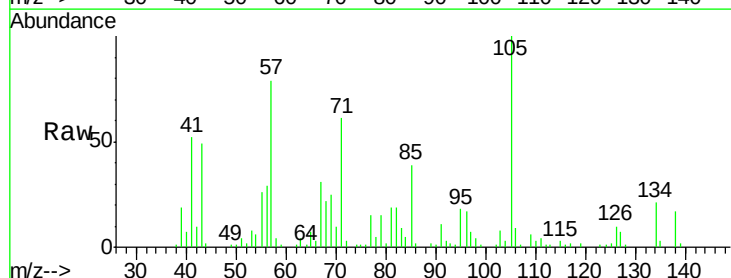
Ion Ratio Lower Upper

105 100

71 60.9 2.8 4.2#

51 4.0 30.7 46.1#

120 0.0 17.4 26.0#

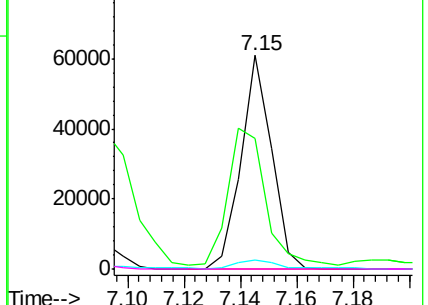
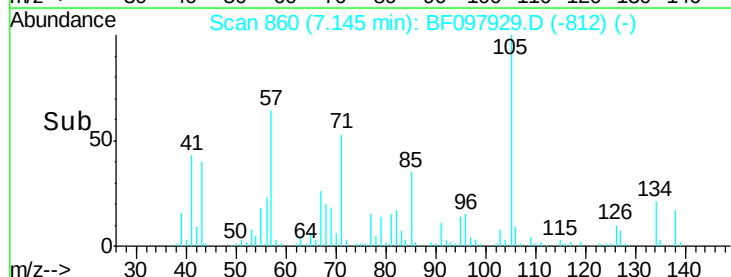


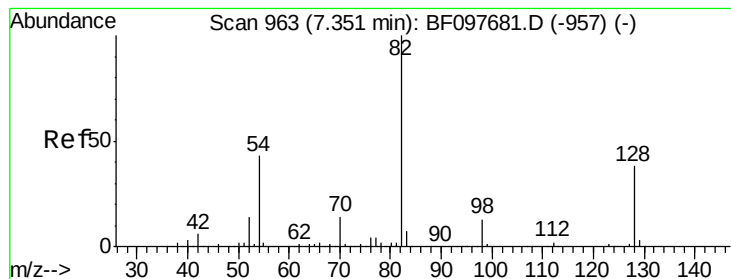
Abundance Ion 105.00 (104.70 to 105.70): E

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





#23

Nitrobenzene-d5

Concen: 17.62 ng

RT: 7.31 min Scan# 888

Delta R.T. -0.01 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

Instrument :

BNA_F

ClientSampleId :

HR-06-081817

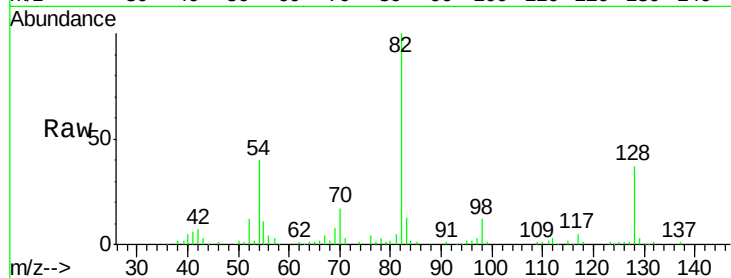
Tot Ion: 82 Resp: 116285

Ion Ratio Lower Upper

82 100

128 36.8 34.0 51.0

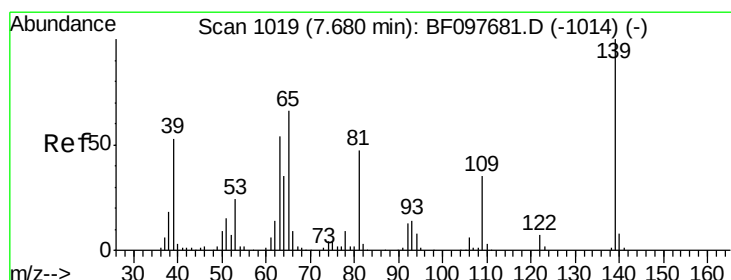
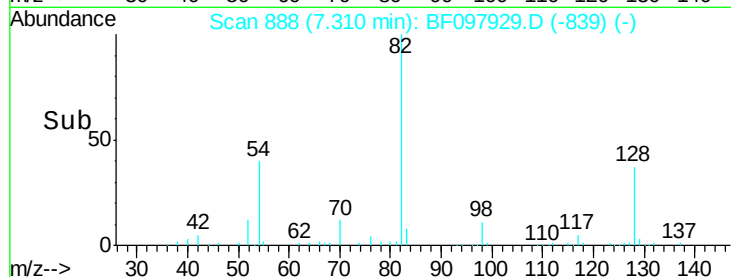
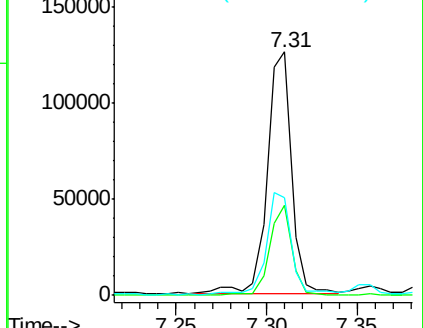
54 40.3 42.2 63.2#



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



#26

2-Nitrophenol

Concen: 5.66 ng

RT: 7.65 min Scan# 946

Delta R.T. -0.00 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

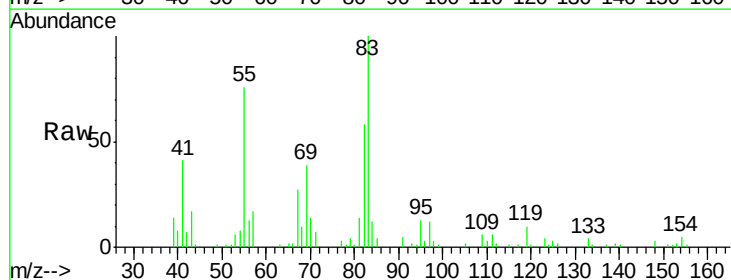
Tgt Ion: 139 Resp: 1191

Ion Ratio Lower Upper

139 100

109 308.6 21.0 31.6#

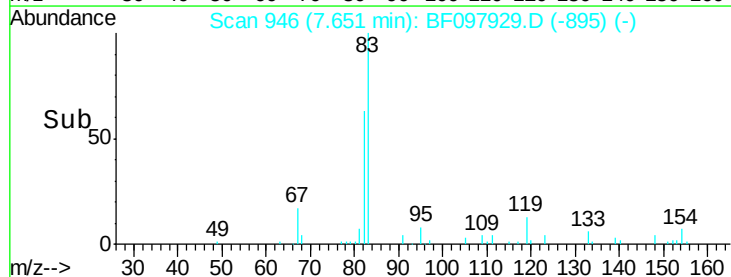
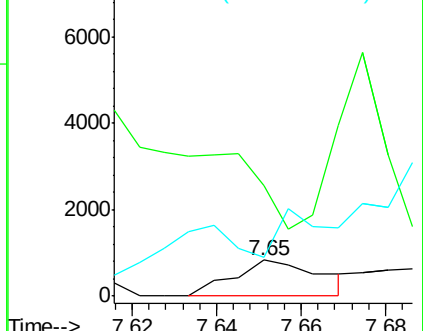
65 107.6 33.0 49.6#

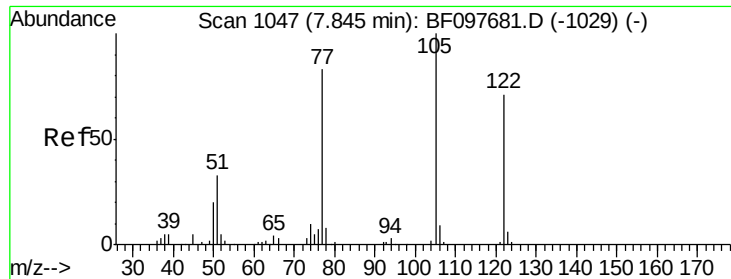


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

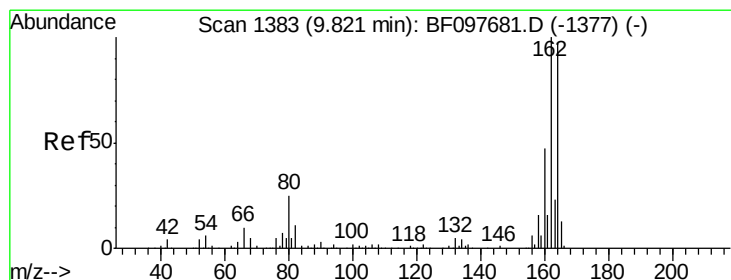
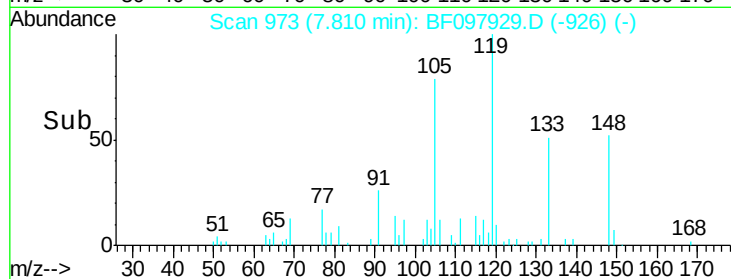
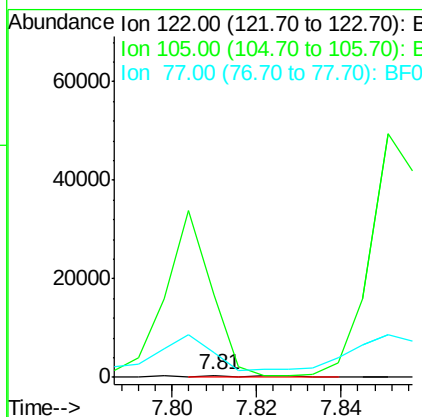
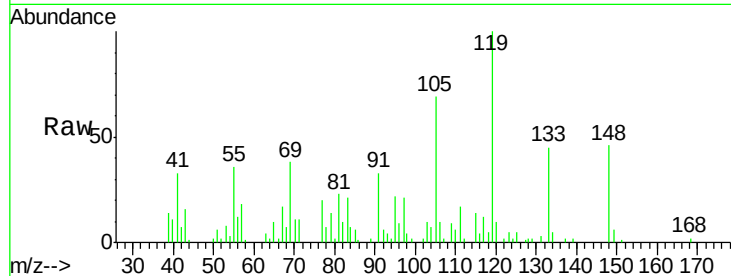




#32
Benzoic acid
Concen: 6.49 ng
RT: 7.81 min Scan# 973
Delta R.T. -0.02 min
Lab File: BF097929.D
Acq: 22 Aug 2017 2:21

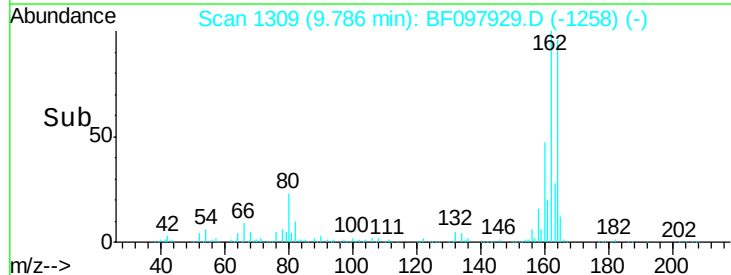
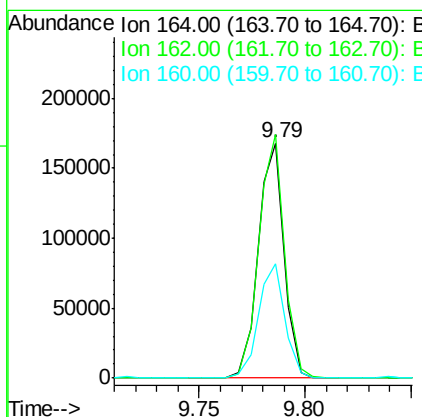
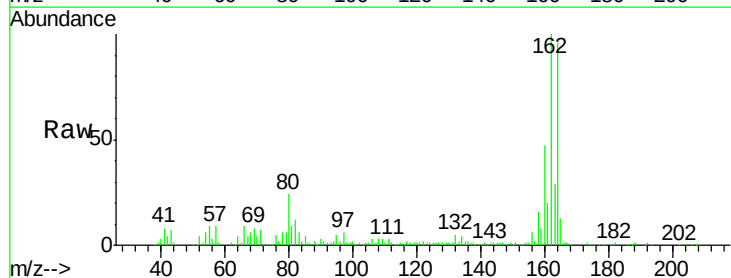
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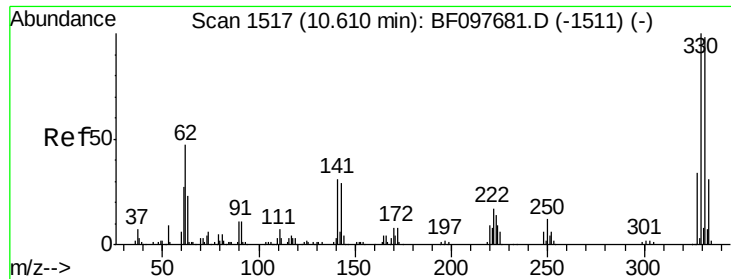
Tot Ion:122 Resp: 407
Ion Ratio Lower Upper
122 100
105 4306.4 103.3 143.3#
77 1268.1 73.7 113.7#



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.79 min Scan# 1309
Delta R.T. -0.00 min
Lab File: BF097929.D
Acq: 22 Aug 2017 2:21

Tgt Ion:164 Resp: 143342
Ion Ratio Lower Upper
164 100
162 103.7 82.6 123.8
160 48.9 36.2 54.2

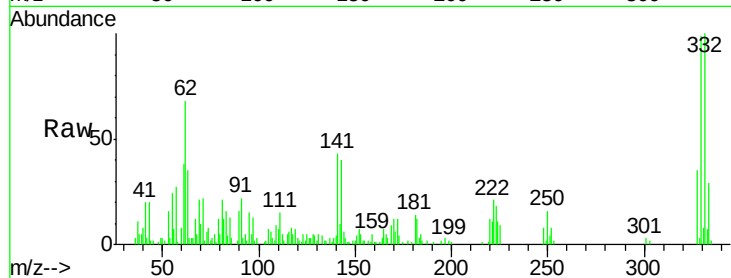




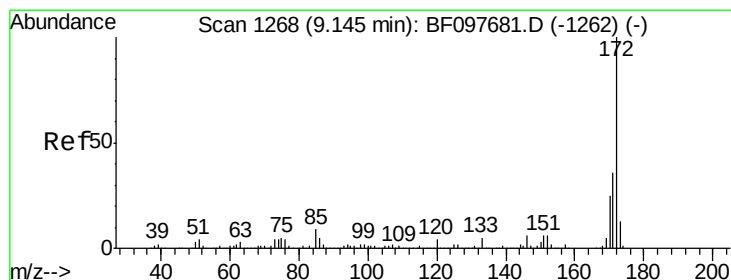
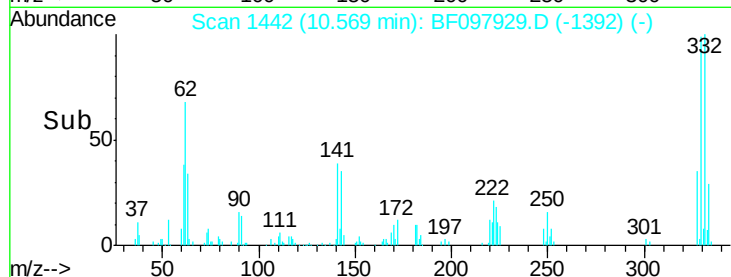
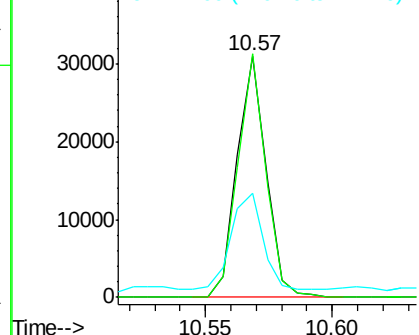
#41
 2,4,6-Tribromophenol
 Concen: 19.76 ng
 RT: 10.57 min Scan# 1442
 Delta R.T. -0.01 min
 Lab File: BF097929.D
 Acq: 22 Aug 2017 2:21

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-081817

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.2	76.6	115.0
141	44.7	31.4	47.2

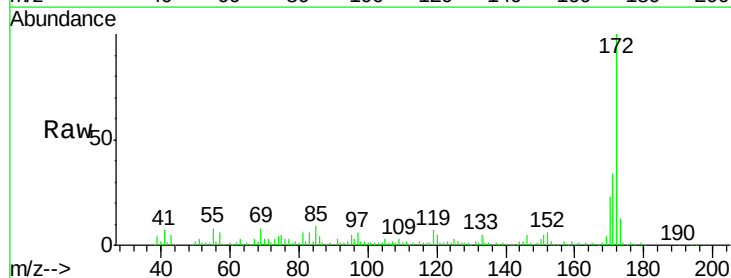


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

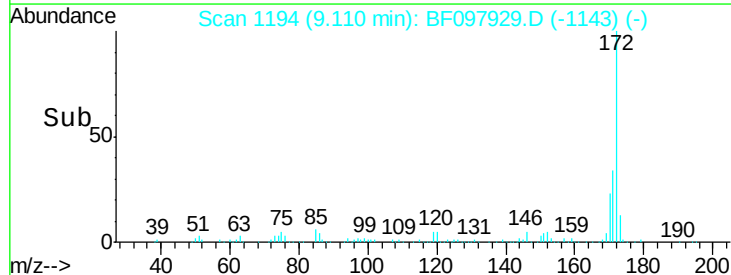
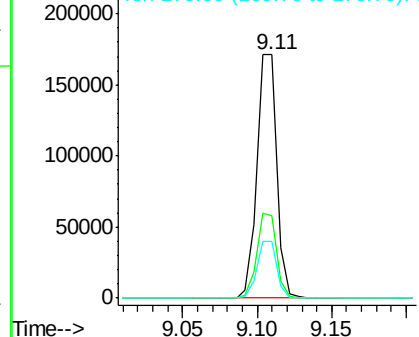


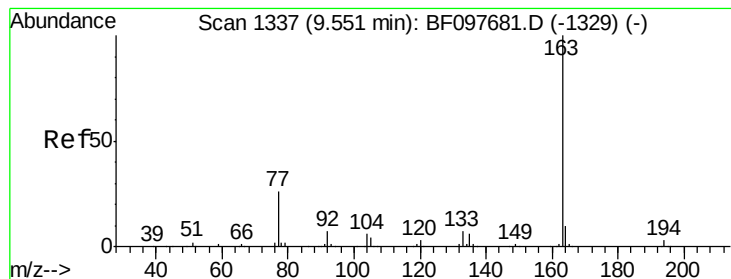
#44
 2-Fluorobiphenyl
 Concen: 15.99 ng
 RT: 9.11 min Scan# 1194
 Delta R.T. -0.00 min
 Lab File: BF097929.D
 Acq: 22 Aug 2017 2:21

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.1	29.6	44.4
170	23.4	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: 3.81 ng

RT: 9.50 min Scan# 1261

Delta R.T. -0.01 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

Instrument :

BNA_F

ClientSampleId :

HR-06-081817

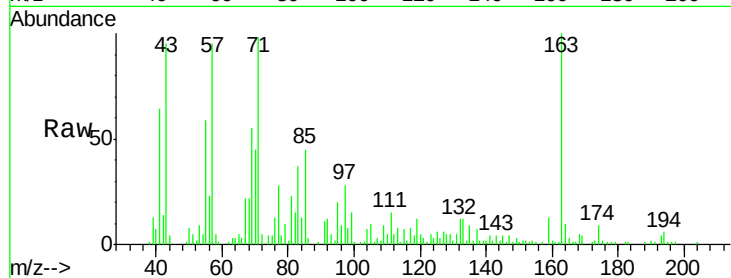
Tot Ion:163 Resp: 39918

Ion Ratio Lower Upper

163 100

194 5.6 2.6 4.0#

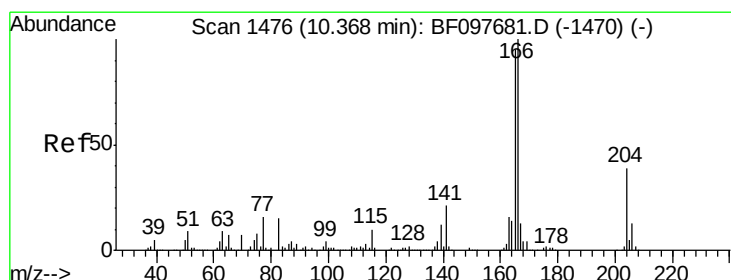
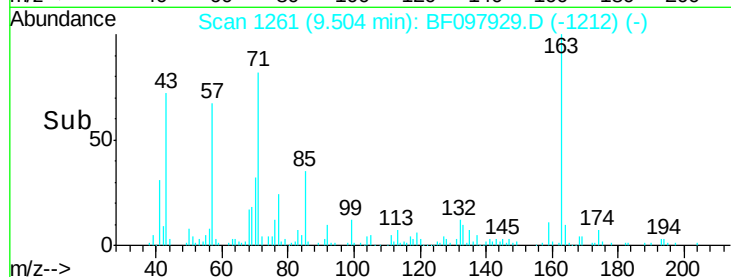
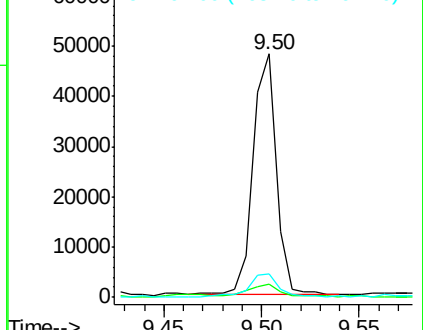
164 9.8 8.4 12.6



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



#57

Fluorene

Concen: 2.01 ng

RT: 10.33 min Scan# 1401

Delta R.T. -0.01 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

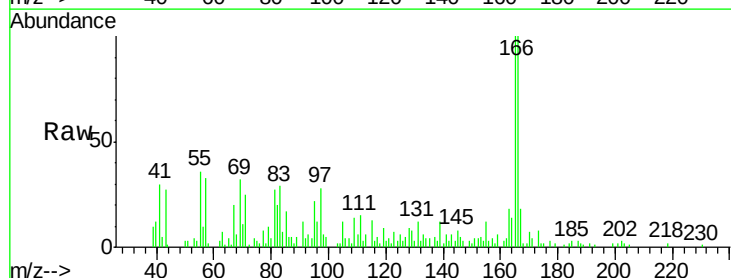
Tgt Ion:166 Resp: 19969

Ion Ratio Lower Upper

166 100

165 99.8 78.8 118.2

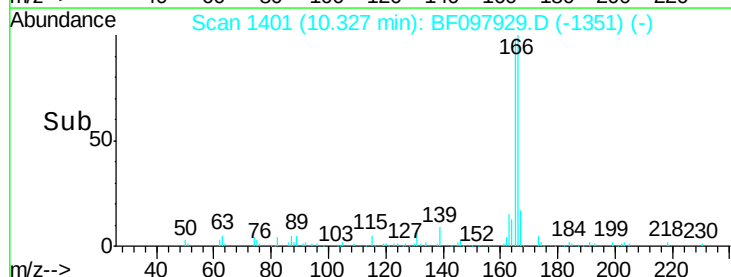
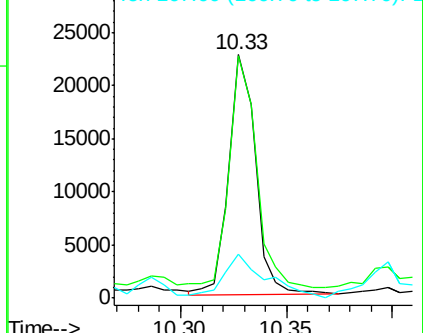
167 18.0 10.6 16.0#

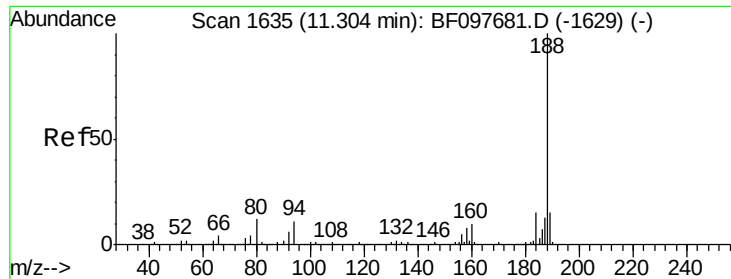


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

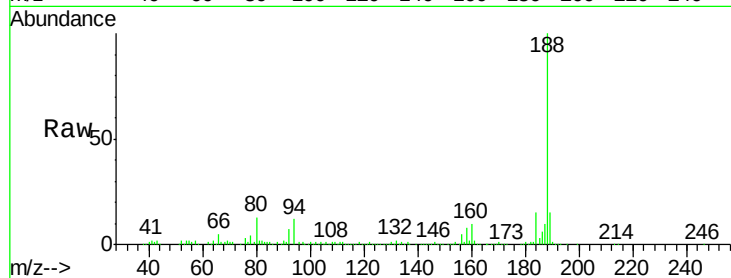




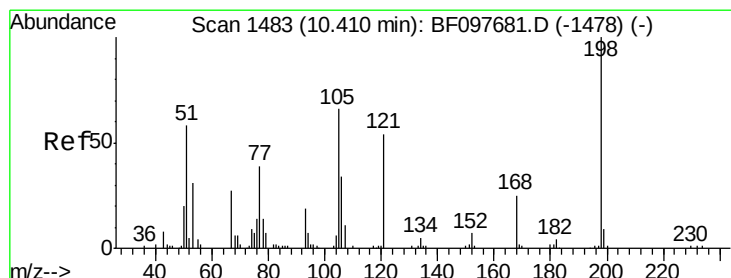
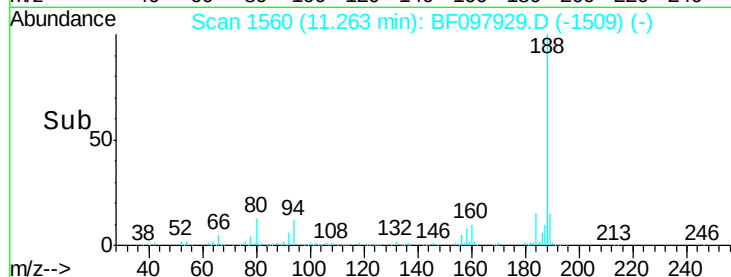
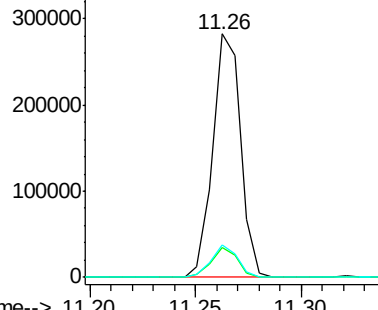
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.26 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BF097929.D
Acq: 22 Aug 2017 2:21

Instrument :
BNA_F
ClientSampleId :
HR-06-081817

Tot Ion:188 Resp: 257320
Ion Ratio Lower Upper
188 100
94 12.2 9.4 14.2
80 13.1 10.2 15.2

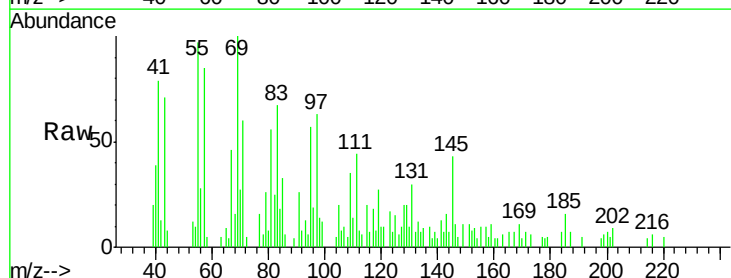


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

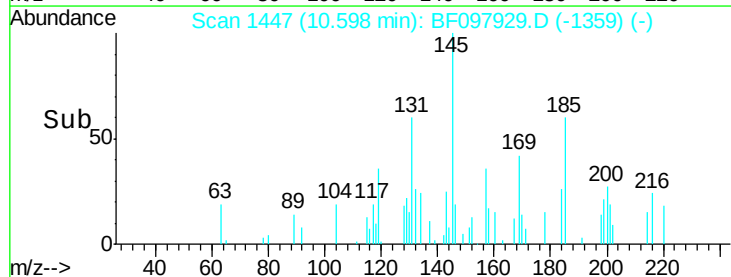
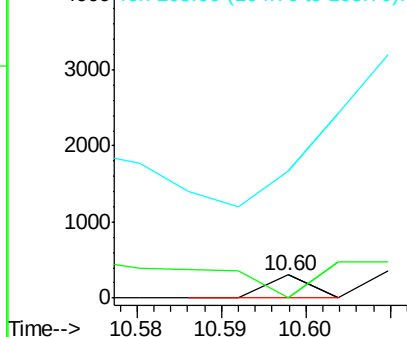


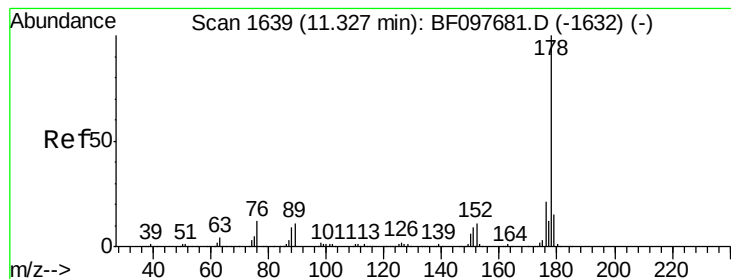
#64
4,6-Dinitro-2-methylphenol
Concen: 8.39 ng
RT: 10.60 min Scan# 1447
Delta R.T. 0.22 min
Lab File: BF097929.D
Acq: 22 Aug 2017 2:21

Tgt Ion:198 Resp: 108
Ion Ratio Lower Upper
198 100
51 0.0 53.2 93.2#
105 546.4 45.8 85.8#



Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF0
Ion 105.00 (104.70 to 105.70): E





#70

Phenanthrene

Concen: 9.39 ng

RT: 11.29 min Scan# 1564

Delta R.T. -0.01 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

Instrument :

BNA_F

ClientSampleId :

HR-06-081817

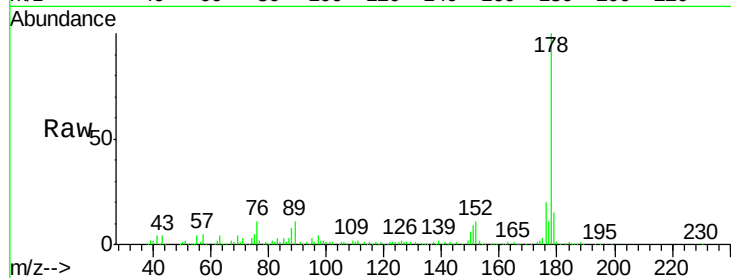
Tot Ion:178 Resp: 128768

Ion Ratio Lower Upper

178 100

176 19.9 16.2 24.4

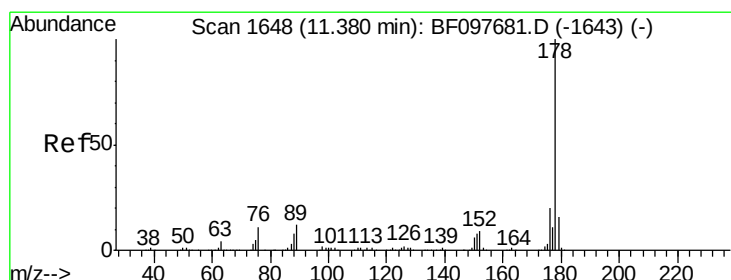
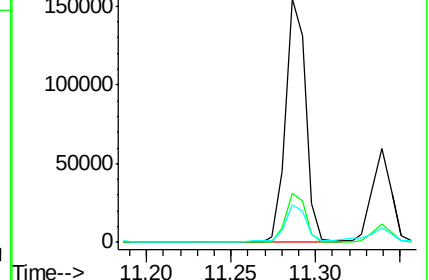
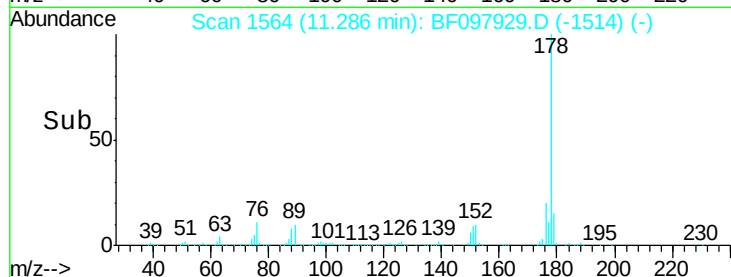
179 15.4 12.6 19.0



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: 3.36 ng

RT: 11.34 min Scan# 1573

Delta R.T. -0.01 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

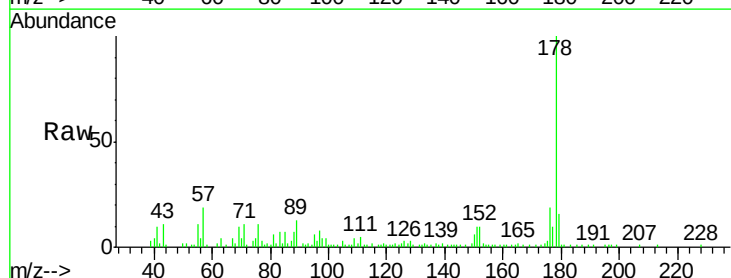
Tgt Ion:178 Resp: 46686

Ion Ratio Lower Upper

178 100

176 18.9 15.8 23.8

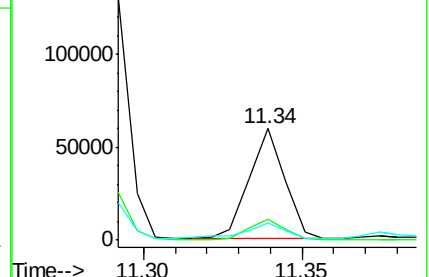
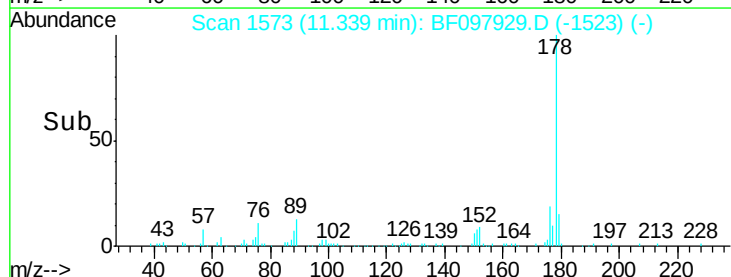
179 15.9 12.7 19.1

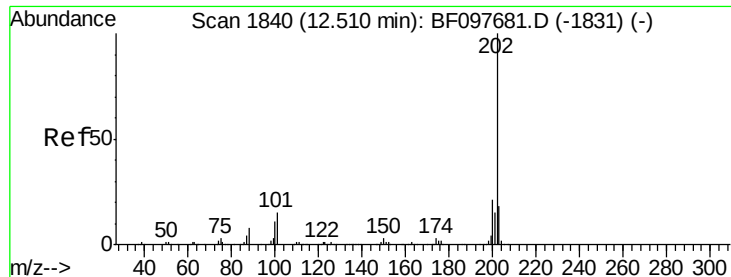


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 12.66 ng

RT: 12.47 min Scan# 1766

Delta R.T. -0.00 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

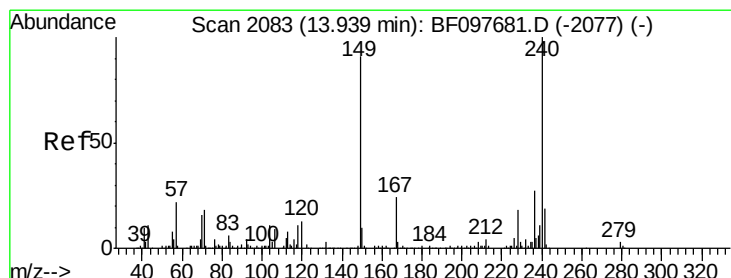
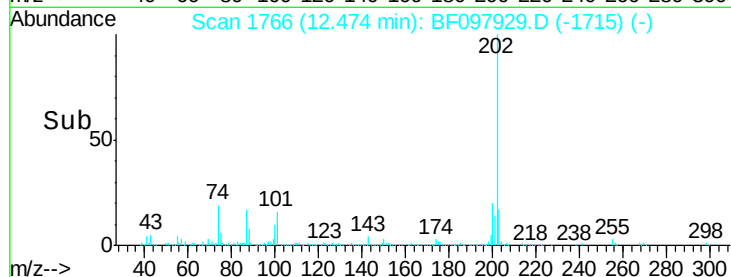
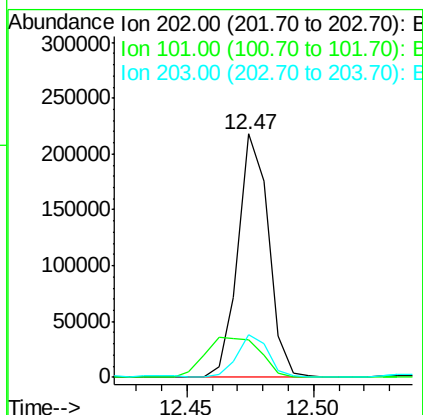
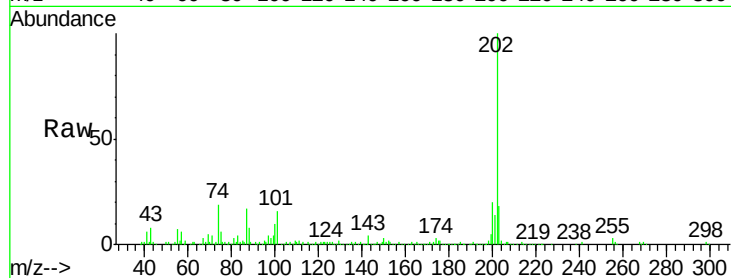
Instrument :

BNA_F

ClientSampleId :

HR-06-081817

Tot Ion:	202	Resp:	181131
Ion	Ratio	Lower	Upper
202	100		
101	15.6	0.0	33.2
203	17.7	0.0	38.1



#75

Chrysene-d12

Concen: 20.00 ng

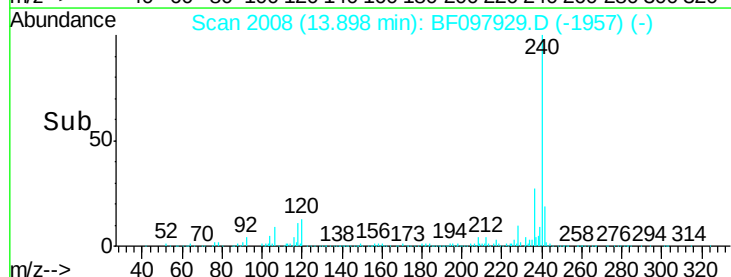
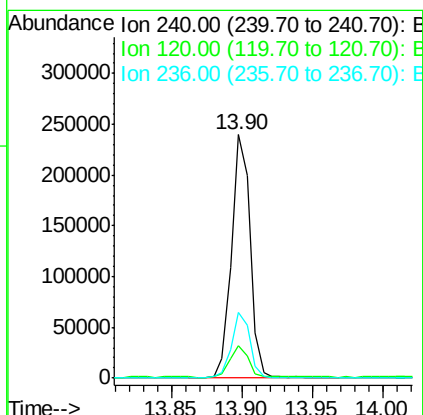
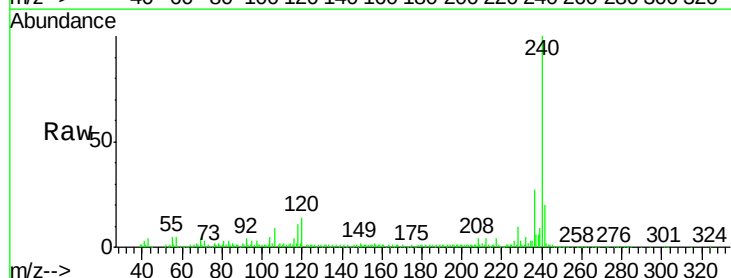
RT: 13.90 min Scan# 2008

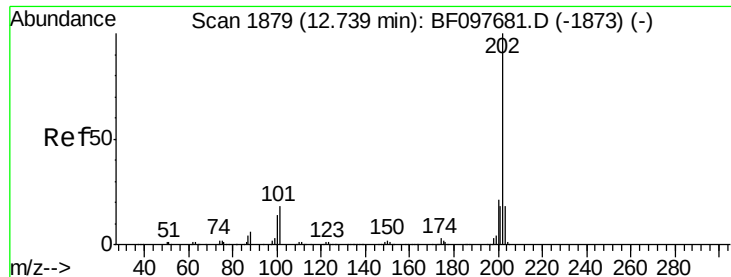
Delta R.T. -0.00 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

Tgt Ion:	240	Resp:	219549
Ion	Ratio	Lower	Upper
240	100		
120	13.5	5.8	8.8#
236	27.2	20.5	30.7

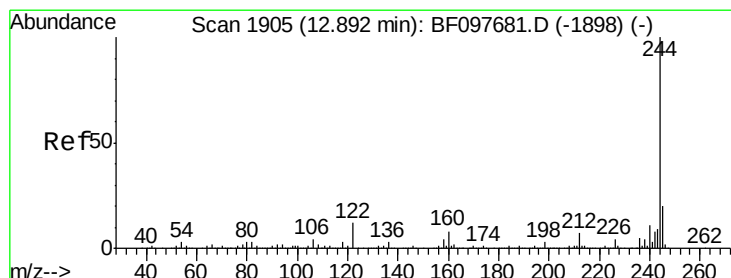
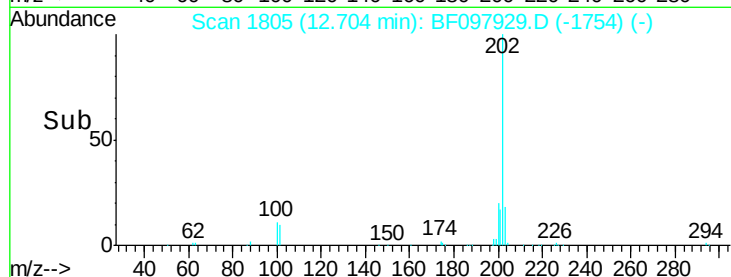
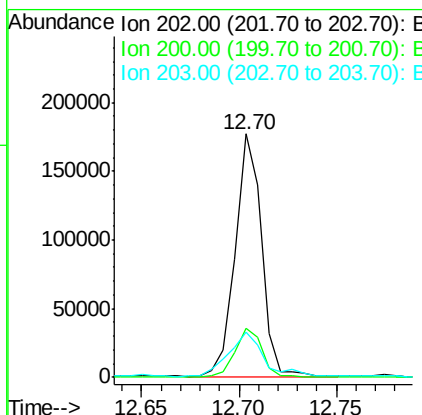
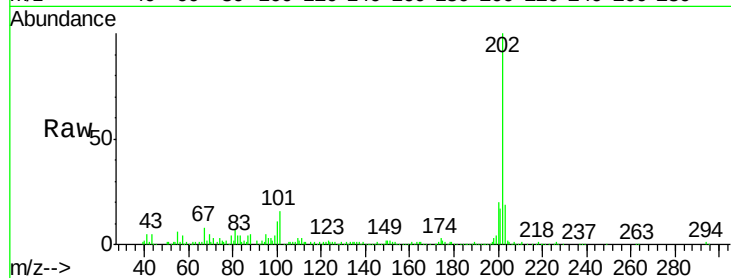




#77
Pvrene
Concen: 9.20 ng
RT: 12.70 min Scan# 1805
Delta R.T. -0.00 min
Lab File: BF097929.D
Acq: 22 Aug 2017 2:21

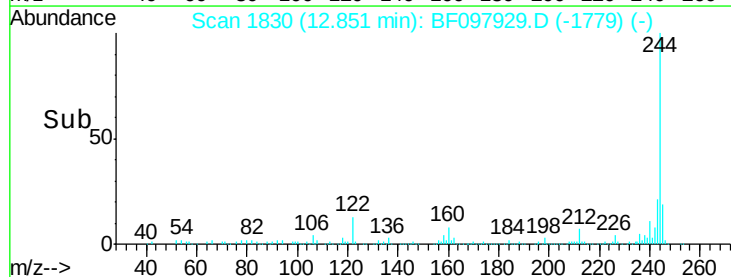
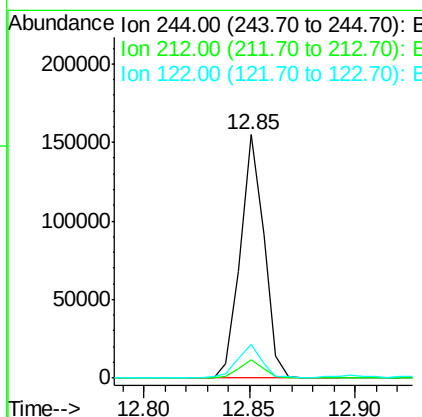
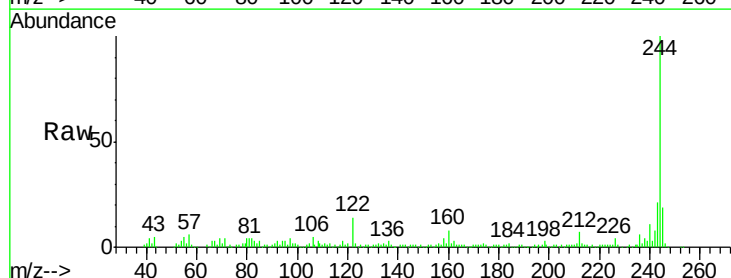
Instrument :
BNA_F
ClientSampleId :
HR-06-081817

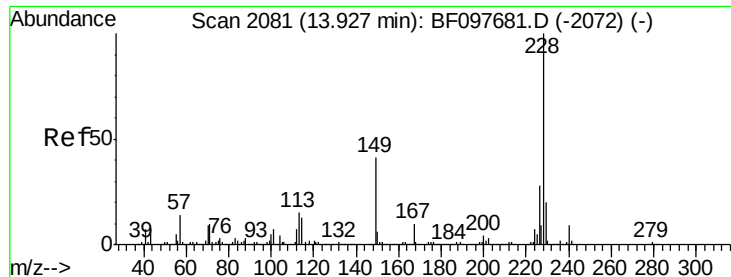
Tot Ion:202 Resp: 165271
Ion Ratio Lower Upper
202 100
200 20.2 17.6 26.4
203 18.8 14.4 21.6



#78
Terphenyl-d14
Concen: 11.40 ng
RT: 12.85 min Scan# 1830
Delta R.T. -0.00 min
Lab File: BF097929.D
Acq: 22 Aug 2017 2:21

Tgt Ion:244 Resp: 120017
Ion Ratio Lower Upper
244 100
212 7.4 6.0 9.0
122 13.6 10.3 15.5





#80

Benzo(a)anthracene

Concen: 5.09 ng

RT: 13.89 min Scan# 2006

Delta R.T. -0.00 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

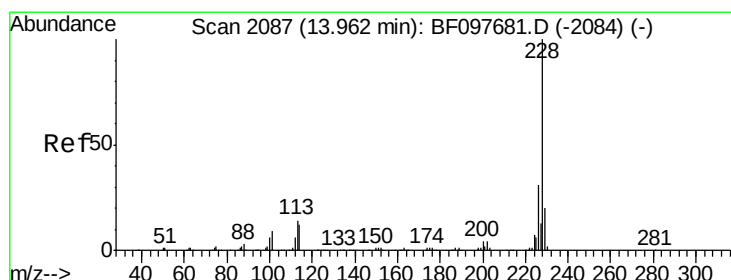
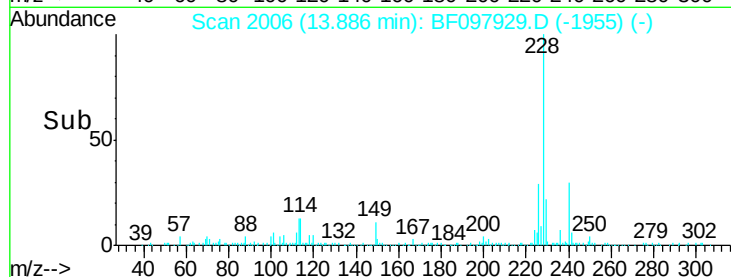
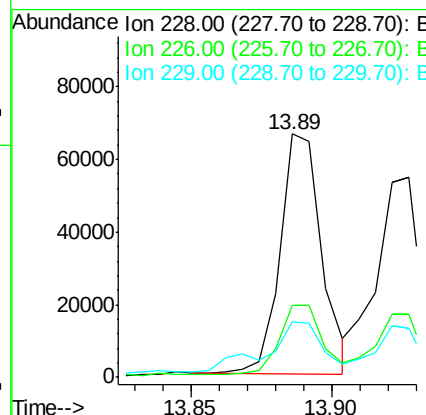
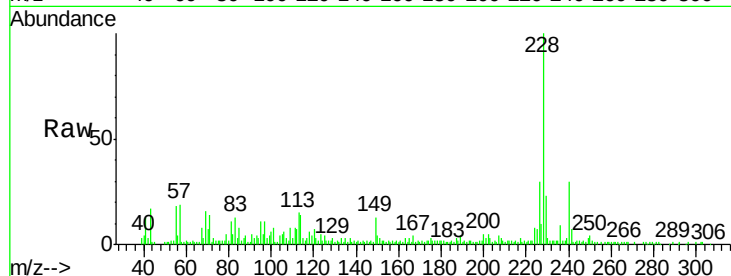
Instrument :

BNA_F

ClientSampleId :

HR-06-081817

Tot Ion:228	Resp:	66966
Ion Ratio	Lower	Upper
228	100	
226	29.8	22.6 33.8
229	23.0	16.3 24.5



#82

Chrysene

Concen: 5.12 ng

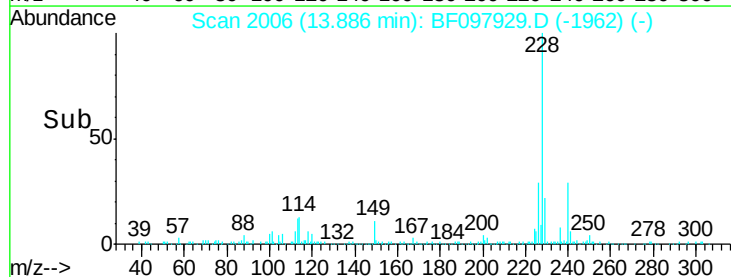
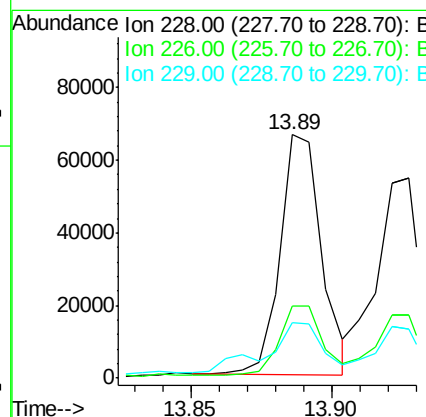
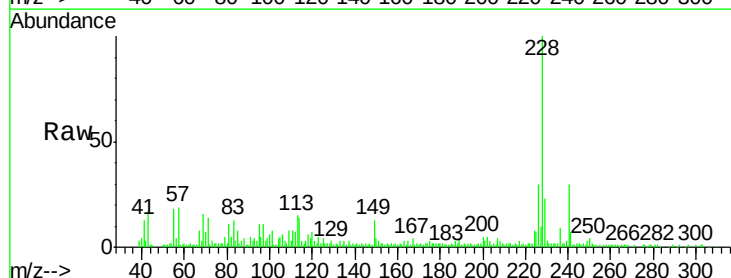
RT: 13.89 min Scan# 2006

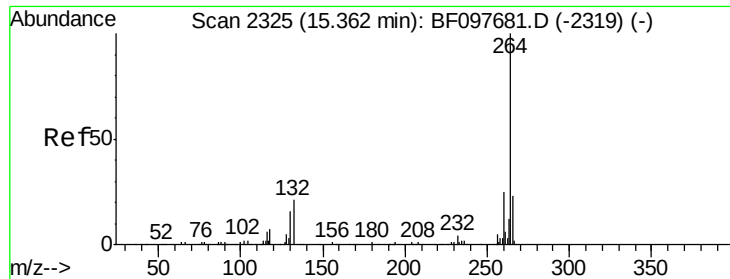
Delta R.T. -0.04 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

Tgt Ion:228	Resp:	66966
Ion Ratio	Lower	Upper
228	100	
226	29.8	24.9 37.3
229	23.0	15.8 23.6





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.32 min Scan# 2250

Delta R.T. 0.01 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

Instrument :

BNA_F

ClientSampleId :

HR-06-081817

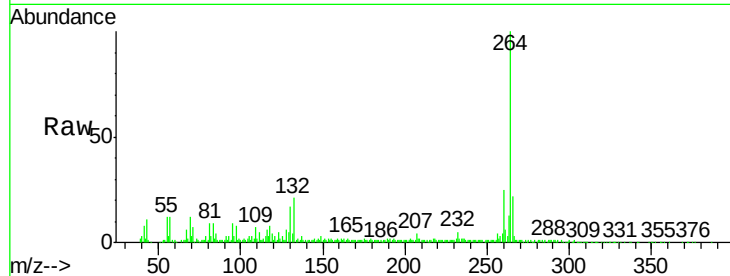
Tot Ion:264 Resp: 140214

Ion Ratio Lower Upper

264 100

260 24.9 19.5 29.3

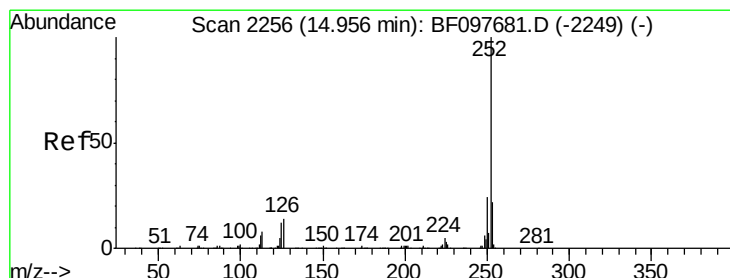
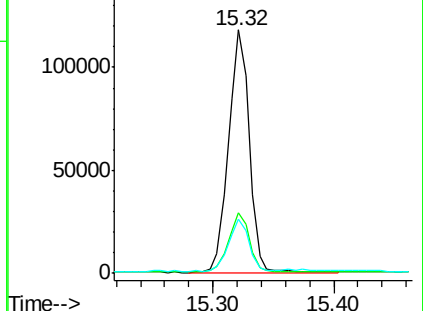
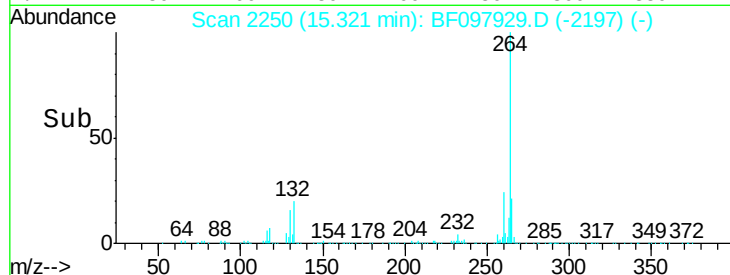
265 22.1 17.2 25.8



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 7.50 ng

RT: 14.92 min Scan# 2181

Delta R.T. 0.01 min

Lab File: BF097929.D

Acq: 22 Aug 2017 2:21

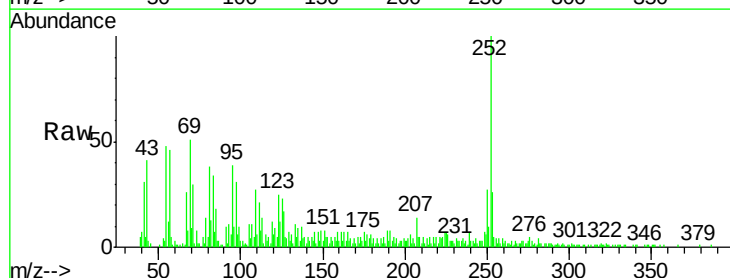
Tgt Ion:252 Resp: 66268

Ion Ratio Lower Upper

252 100

253 26.0 18.1 27.1

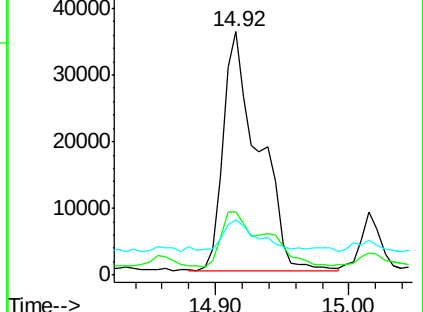
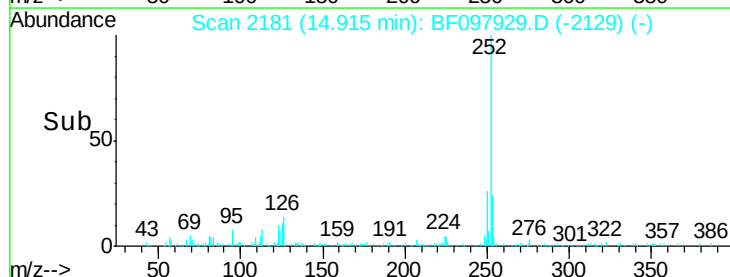
125 22.7 9.8 14.8#

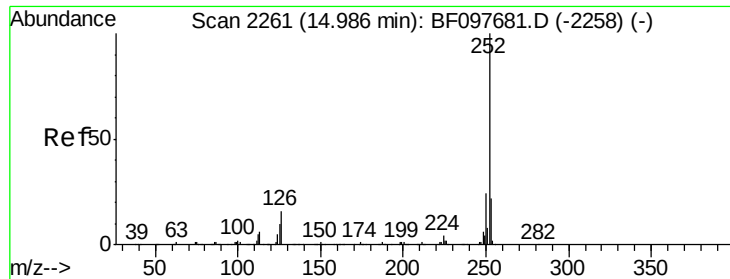


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

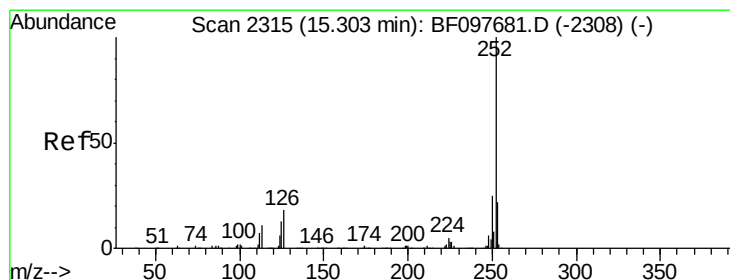
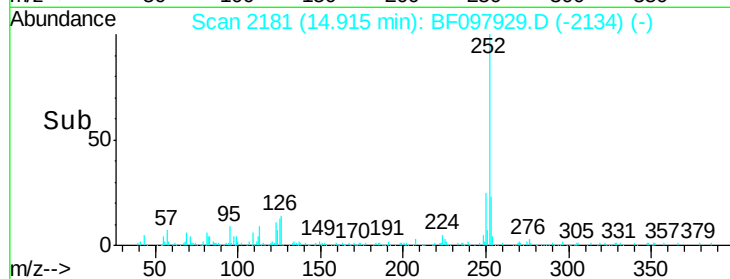
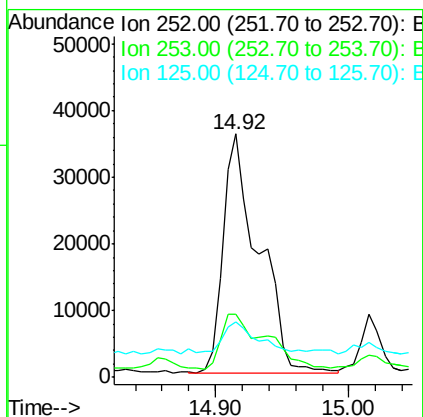
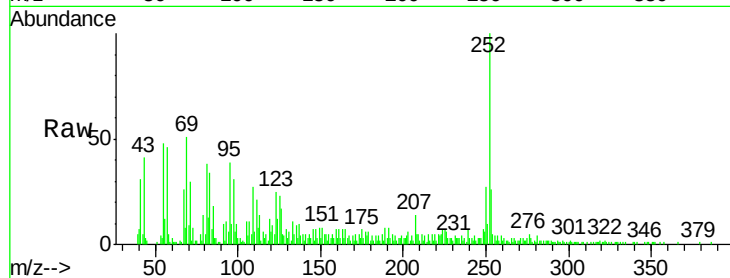




#88
Benzo(k)fluoranthene
Concen: 7.98 ng
RT: 14.92 min Scan# 2181
Delta R.T. -0.02 min
Lab File: BF097929.D
Acq: 22 Aug 2017 2:21

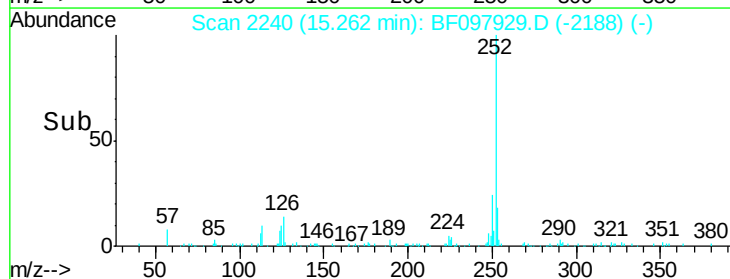
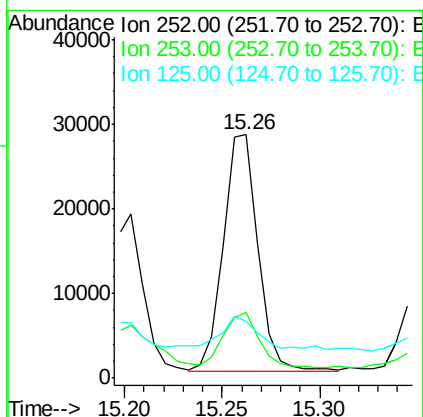
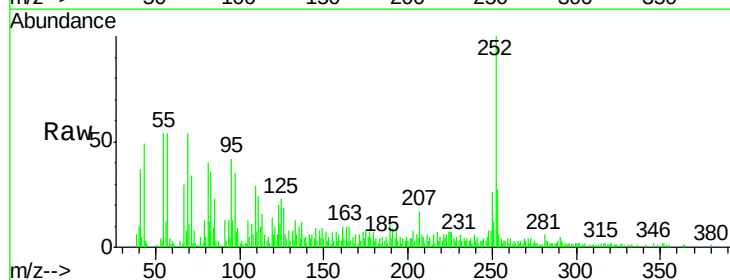
Instrument :
BNA_F
ClientSampleId :
HR-06-081817

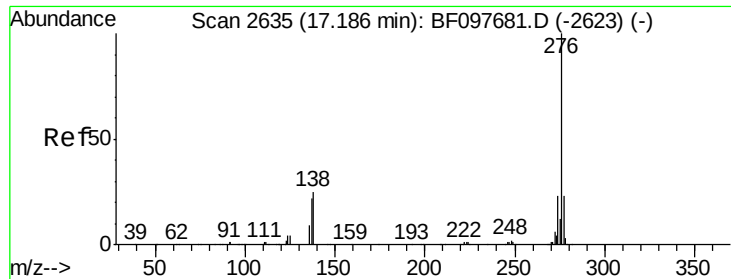
Tot Ion	Ratio	Lower	Upper
252	100		
253	26.0	18.4	27.6
125	22.7	13.1	19.7



#89
Benzo(a)pyrene
Concen: 4.38 ng
RT: 15.26 min Scan# 2240
Delta R.T. 0.01 min
Lab File: BF097929.D
Acq: 22 Aug 2017 2:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.0	17.5	26.3
125	23.3	11.0	16.4





#91

Benzo(a,h,i)perylene

Concen: 2.60 ng

RT: 17.12 min Scan# 2555

Delta R.T. 0.01 min

Lab File: BF097929.D

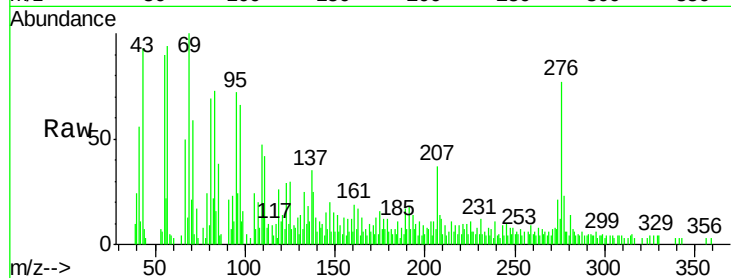
Acq: 22 Aug 2017 2:21

Instrument :

BNA_F

ClientSampleId :

HR-06-081817



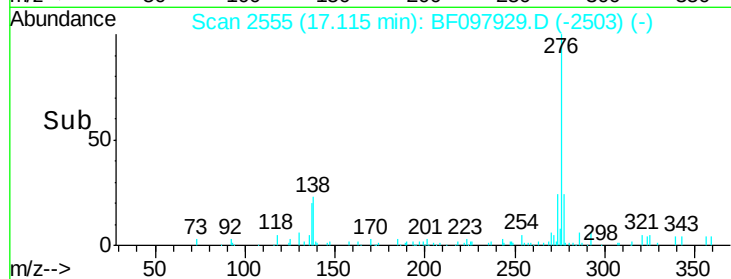
Tot Ion: 276 Resp: 17289

Ion Ratio Lower Upper

276 100

277 29.6 18.6 28.0#

138 32.7 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

