

Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\
 Data File : BF097220.D
 Acq On : 31 Jul 2017 20:56
 Operator : SJ/JU
 Sample : I4488-07 2X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-072717-C

Quant Time: Aug 01 00:59:05 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

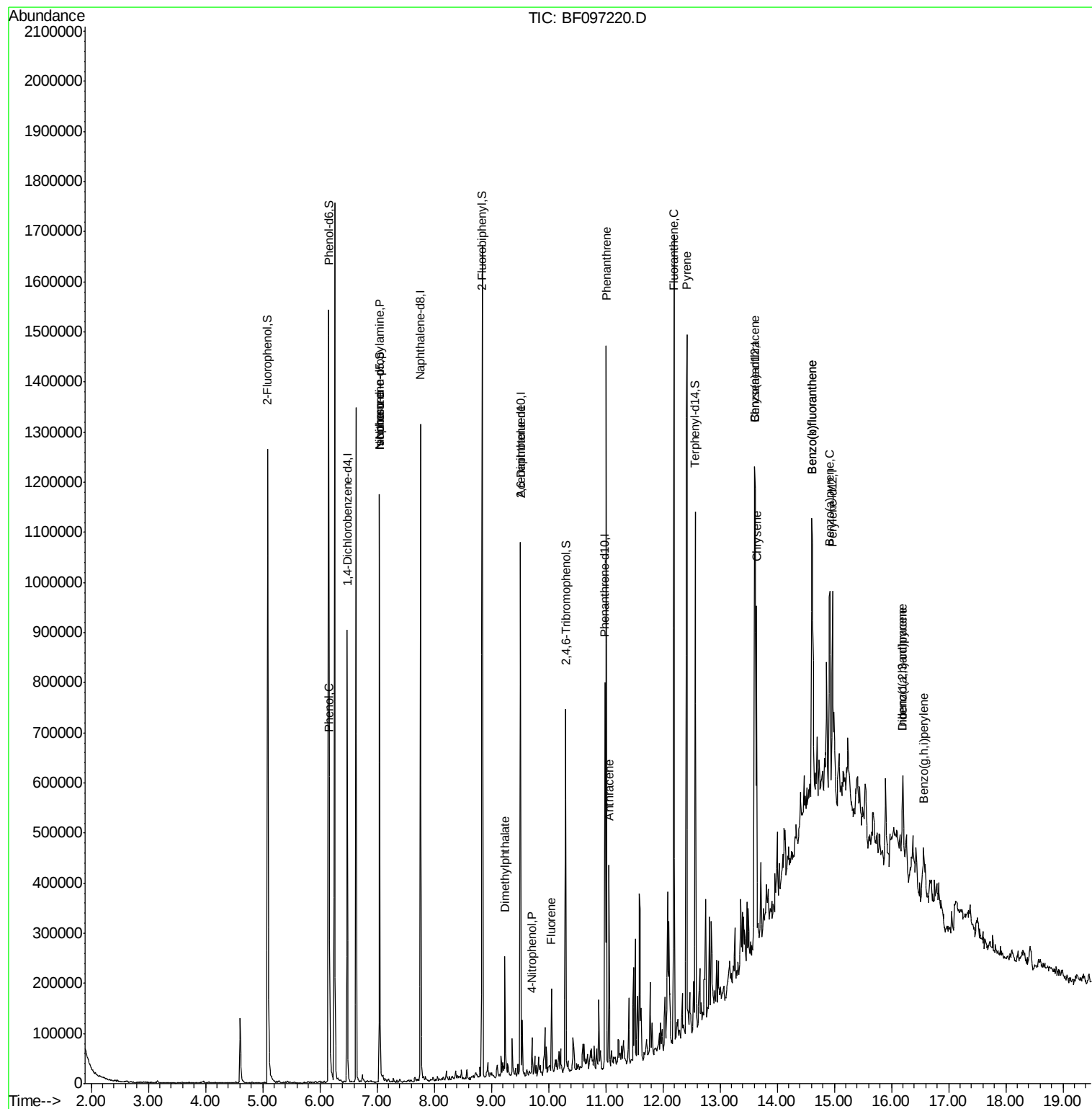
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.48	152	134248	20.00	ng	-0.02
21) Naphthalene-d8	7.76	136	528154	20.00	ng	-0.02
38) Acenaphthene-d10	9.51	164	194553	20.00	ng	-0.02
63) Phenanthrene-d10	10.99	188	270875	20.00	ng	-0.02
75) Chrysene-d12	13.62	240	216593	20.00	ng	-0.01
86) Perylene-d12	14.97	264	161343	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.09	112	413021	46.38	ng	-0.01
7) Phenol-d6	6.16	99	568447	55.91	ng	-0.01
23) Nitrobenzene-d5	7.05	82	321180	35.67	ng	-0.03
41) 2,4,6-Tribromophenol	10.30	330	69647	45.31	ng	-0.02
44) 2-Fluorobiphenyl	8.84	172	468120	40.83	ng	-0.03
78) Terphenyl-d14	12.57	244	285160	26.84	ng	-0.02
Target Compounds						Qvalue
10) Phenol	6.17	94	30414	2.52	ng	99
19) n-Nitroso-di-n-propylamine	7.05	70	42177	6.30	ng	# 86
25) Isophorone	7.05	82	317593	18.01	ng	# 67
49) Dimethylphthalate	9.24	163	81755	5.53	ng	99
50) 2,6-Dinitrotoluene	9.51	165	25722	8.21	ng	# 34
55) 4-Nitrophenol	9.72	139	7940	3.43	ng	# 33
57) Fluorene	10.05	166	45488	4.11	ng	97
70) Phenanthrene	11.01	178	481729	33.19	ng	100
71) Anthracene	11.06	178	157259	10.58	ng	98
74) Fluoranthene	12.20	202	679348	47.78	ng	97
77) Pyrene	12.42	202	572302	32.28	ng	100
80) Benzo(a)anthracene	13.60	228	301653	21.52	ng	98
82) Chrysene	13.64	228	261277	19.09	ng	96
85) Indeno(1,2,3-cd)pyrene	16.20	276	89150	7.60	ng	96
87) Benzo(b)fluoranthene	14.61	252	349326	36.02	ng	# 96
88) Benzo(k)fluoranthene	14.61	252	349326	37.80	ng	100
89) Benzo(a)pyrene	14.92	252	172028	19.38	ng	95
90) Dibenzo(a,h)anthracene	16.20	278	23173	3.18	ng	# 77
91) Benzo(a,h,i)perylene	16.56	276	75957	9.95	ng	95

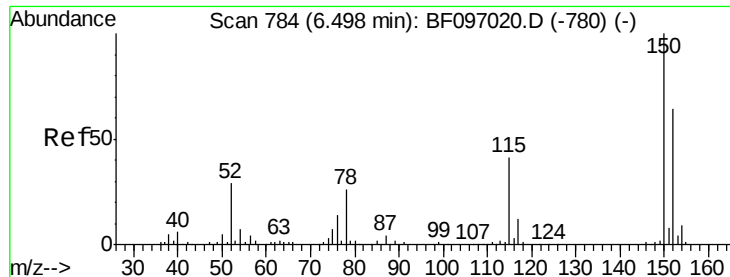
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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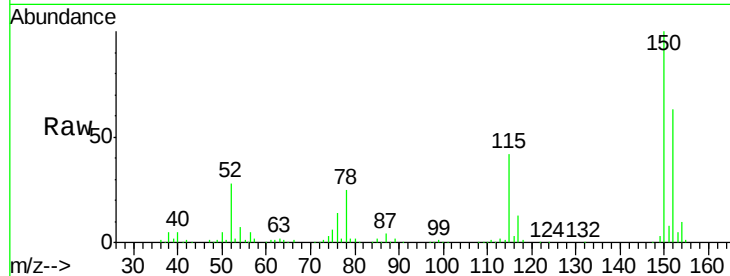


#1

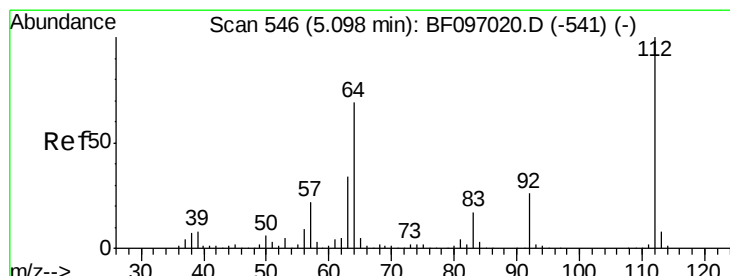
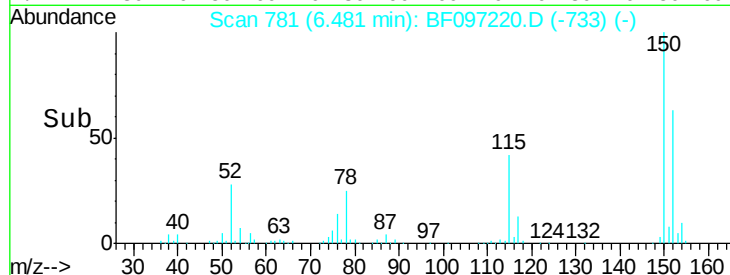
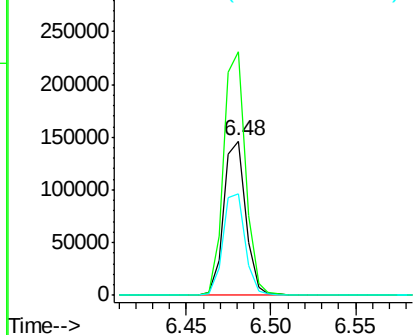
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.48 min Scan# 781
Delta R.T. -0.02 min
Lab File: BF097220.D
Acq: 31 Jul 2017 20:56

Instrument :
BNA_F
ClientSampleId :
CL-02-072717-C

Tot Ion:152 Resp: 134248
Ion Ratio Lower Upper
152 100
150 157.6 126.2 189.2
115 65.4 52.2 78.2



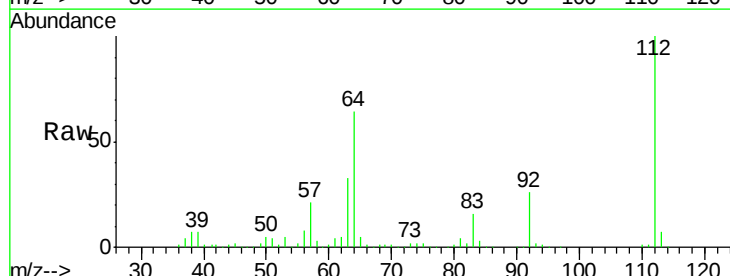
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



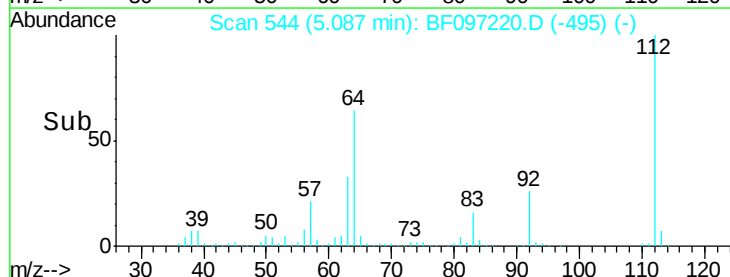
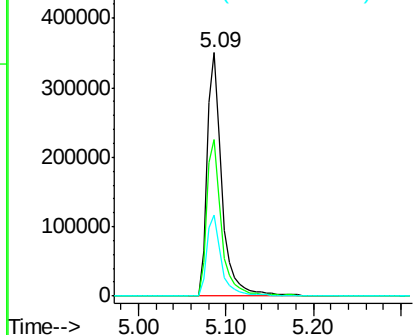
#5

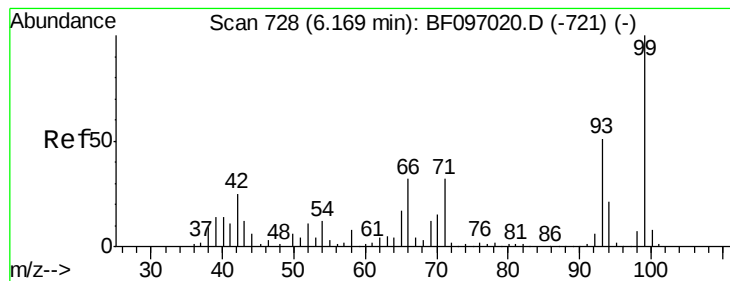
2-Fluorophenol
Concen: 46.38 ng
RT: 5.09 min Scan# 544
Delta R.T. -0.01 min
Lab File: BF097220.D
Acq: 31 Jul 2017 20:56

Tgt Ion:112 Resp: 413021
Ion Ratio Lower Upper
112 100
64 64.3 46.0 69.0
63 33.4 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 55.91 ng

RT: 6.16 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF097220.D

Acq: 31 Jul 2017 20:56

Instrument :

BNA_F

ClientSampleId :

CL-02-072717-C

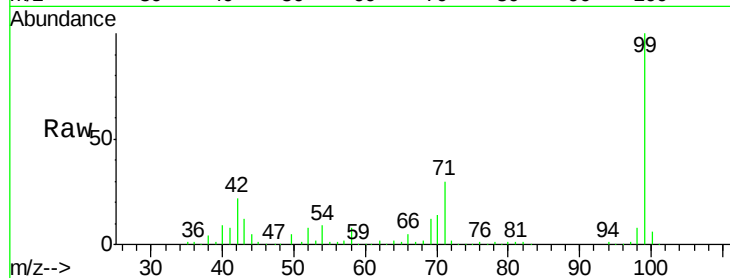
Tot Ion: 99 Resp: 568447

Ion Ratio Lower Upper

99 100

42 22.1 13.5 20.3#

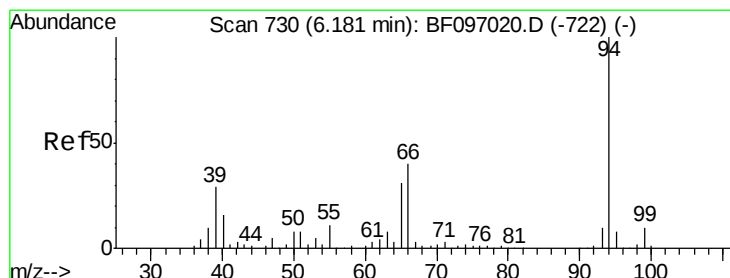
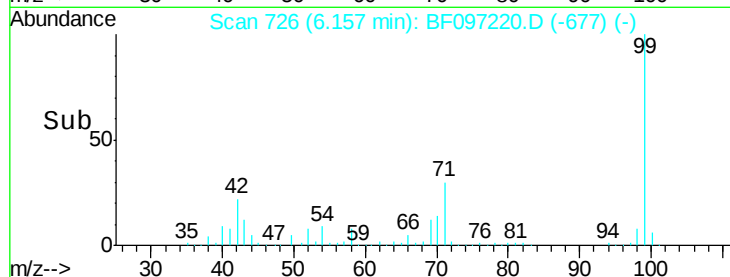
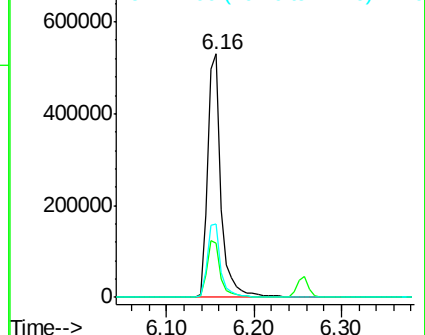
71 30.0 24.5 36.7



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



#10

Phenol

Concen: 2.52 ng

RT: 6.17 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF097220.D

Acq: 31 Jul 2017 20:56

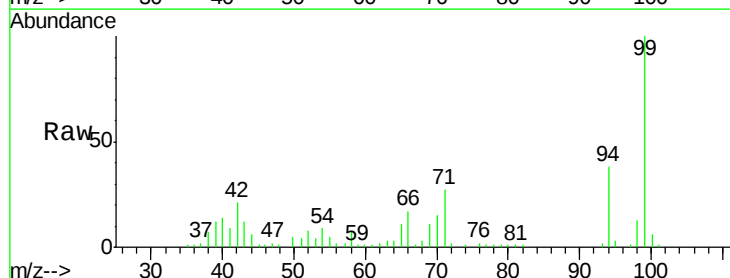
Tgt Ion: 94 Resp: 30414

Ion Ratio Lower Upper

94 100

65 28.4 9.9 49.9

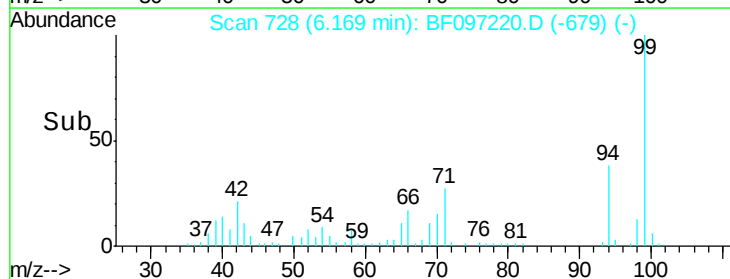
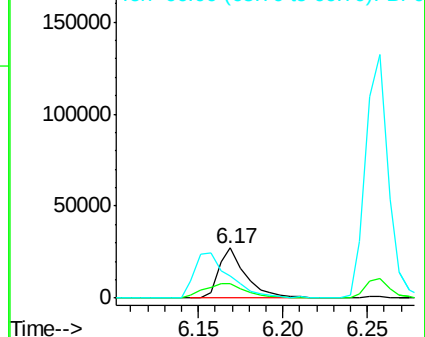
66 43.4 23.1 63.1

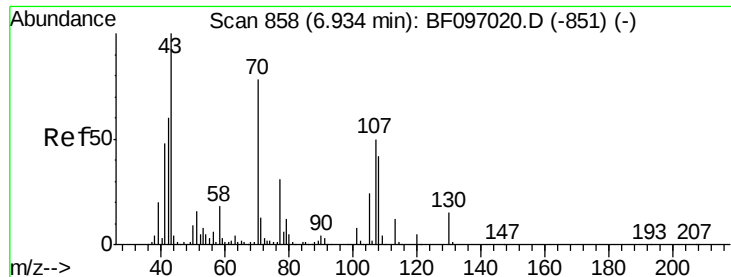


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

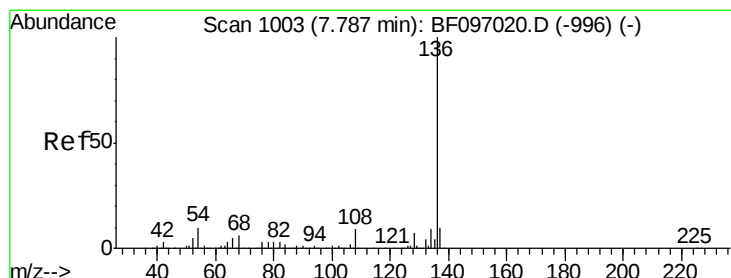
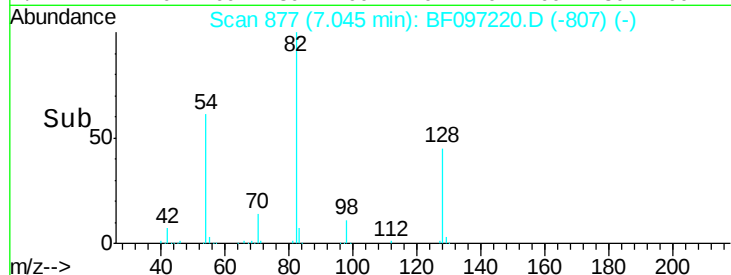
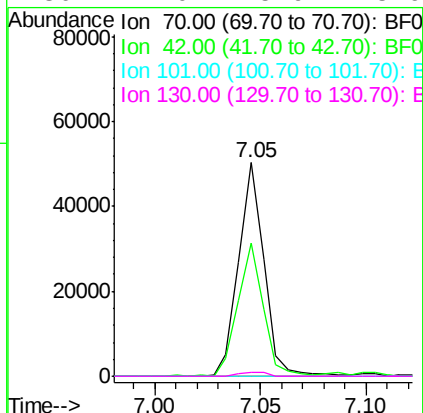
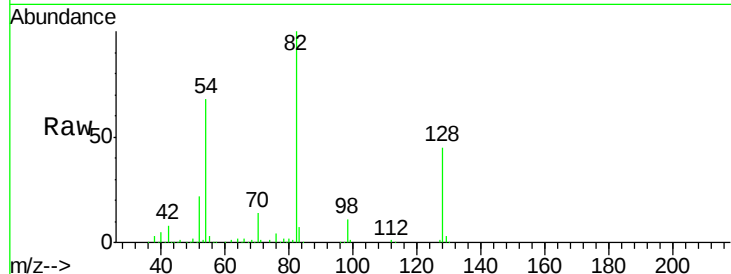




#19
n-Nitroso-di-n-propylamine
Concen: 6.30 ng
RT: 7.05 min Scan# 877
Delta R.T. 0.11 min
Lab File: BF097220.D
Acq: 31 Jul 2017 20:56

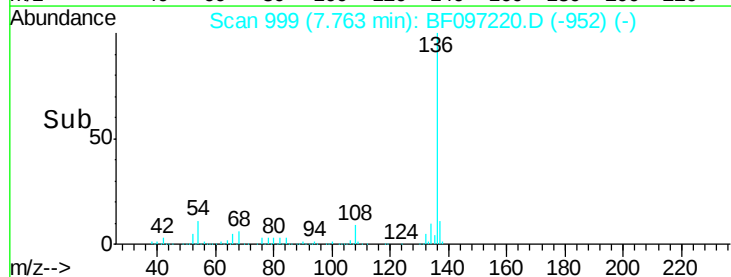
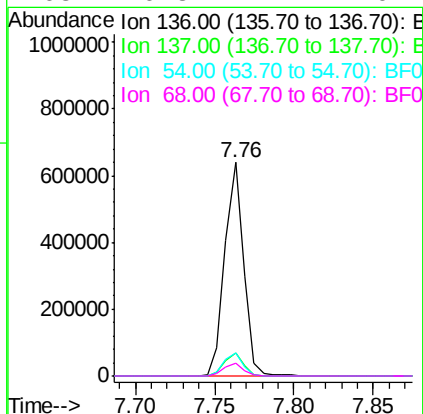
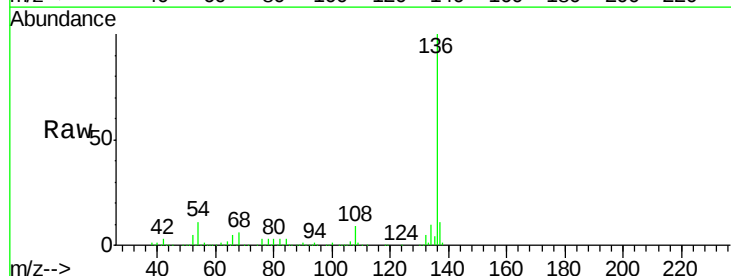
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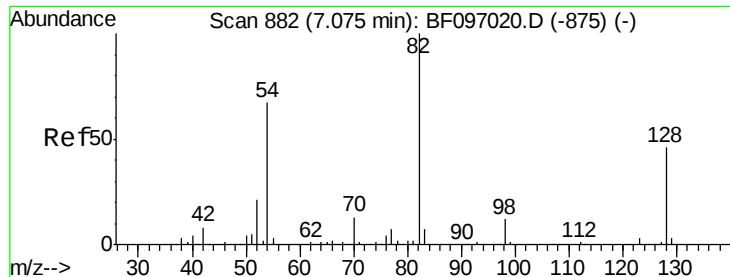
Tot Ion: 70 Resp: 42177
Ion Ratio Lower Upper
70 100
42 62.4 47.2 70.8
101 0.0 7.2 10.8#
130 2.0 15.9 23.9#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.76 min Scan# 999
Delta R.T. -0.02 min
Lab File: BF097220.D
Acq: 31 Jul 2017 20:56

Tgt Ion:136 Resp: 528154
Ion Ratio Lower Upper
136 100
137 11.0 8.5 12.7
54 10.9 4.9 7.3#
68 6.3 4.1 6.1#

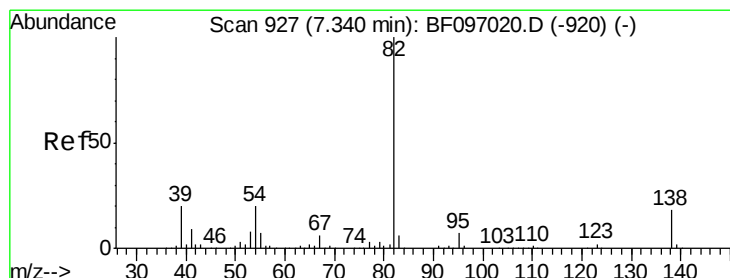
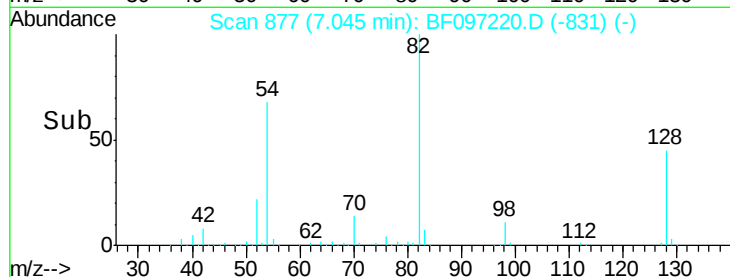
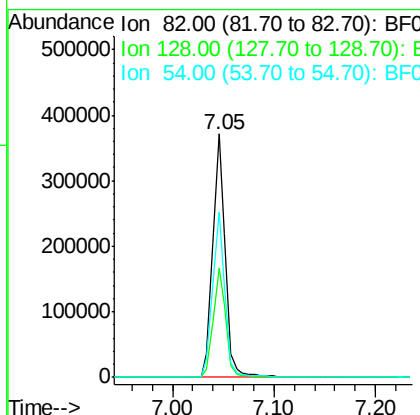
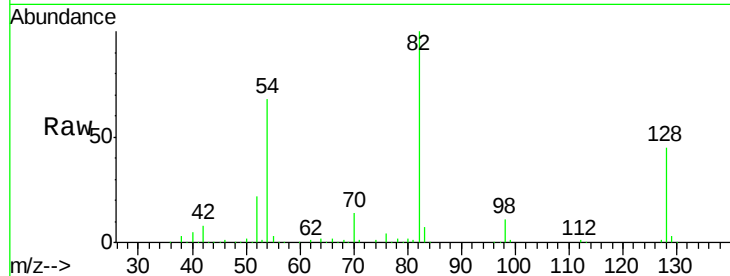




#23
Nitrobenzene-d5
Concen: 35.67 ng
RT: 7.05 min Scan# 877
Delta R.T. -0.03 min
Lab File: BF097220.D
Acq: 31 Jul 2017 20:56

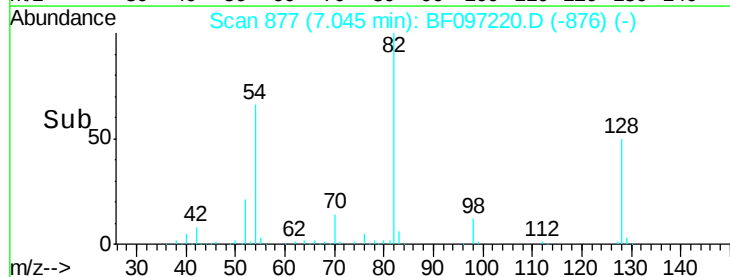
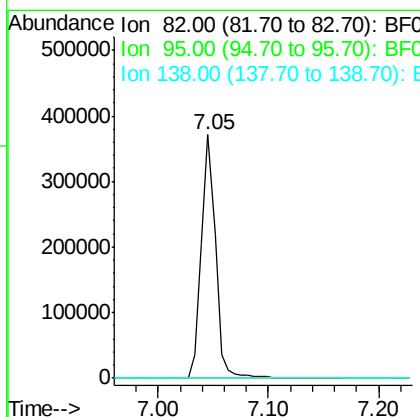
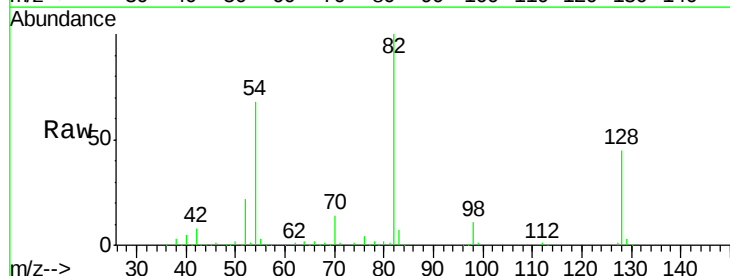
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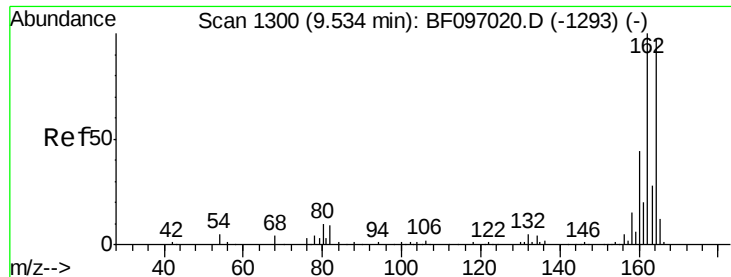
Tot Ion: 82 Resp: 321180
Ion Ratio Lower Upper
82 100
128 44.8 34.0 51.0
54 67.7 42.2 63.2#



#25
Isophorone
Concen: 18.01 ng
RT: 7.05 min Scan# 877
Delta R.T. -0.29 min
Lab File: BF097220.D
Acq: 31 Jul 2017 20:56

Tgt Ion: 82 Resp: 317593
Ion Ratio Lower Upper
82 100
95 0.0 5.3 7.9#
138 0.0 13.1 19.7#

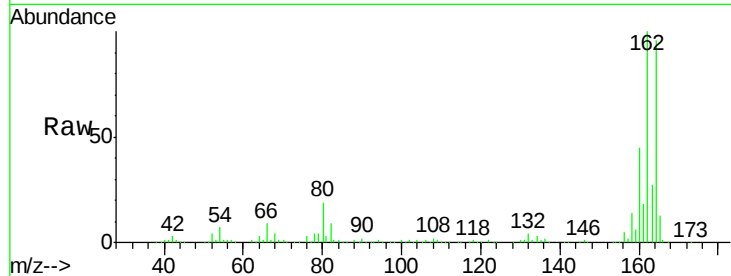




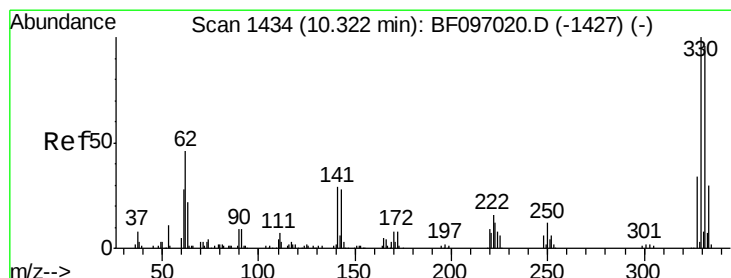
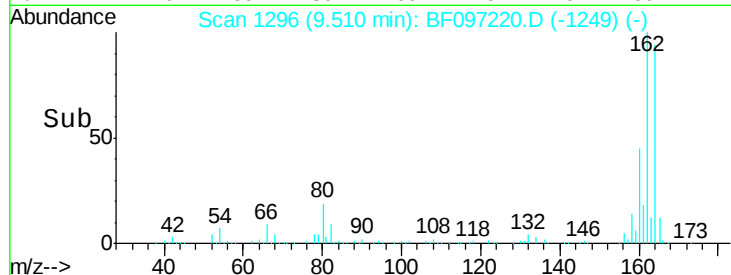
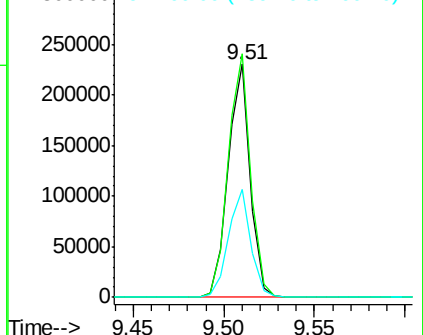
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.51 min Scan# 1296
 Delta R.T. -0.02 min
 Lab File: BF097220.D
 Acq: 31 Jul 2017 20:56

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-072717-C

Tot Ion:164 Resp: 194553
 Ion Ratio Lower Upper
 164 100
 162 104.5 82.6 123.8
 160 46.5 36.2 54.2

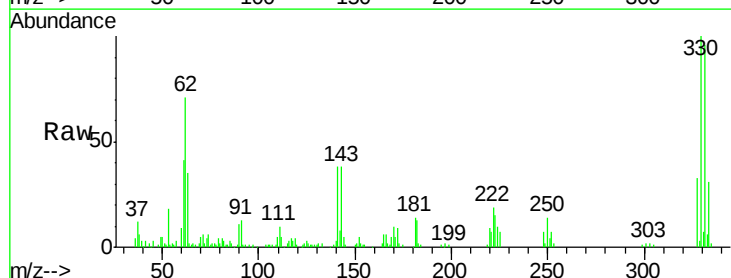


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

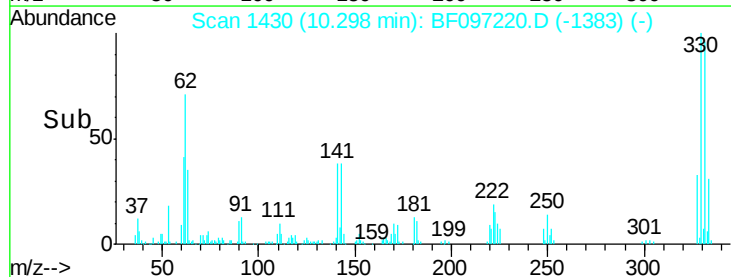
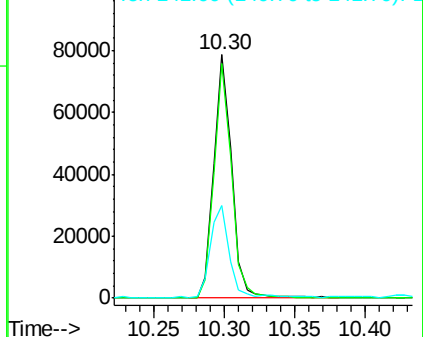


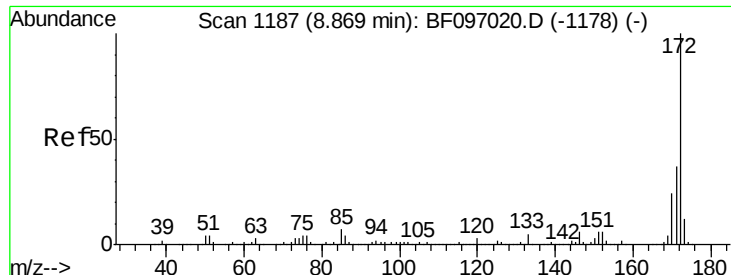
#41
 2,4,6-Tribromophenol
 Concen: 45.31 ng
 RT: 10.30 min Scan# 1430
 Delta R.T. -0.02 min
 Lab File: BF097220.D
 Acq: 31 Jul 2017 20:56

Tgt Ion:330 Resp: 69647
 Ion Ratio Lower Upper
 330 100
 332 94.9 76.6 115.0
 141 41.9 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

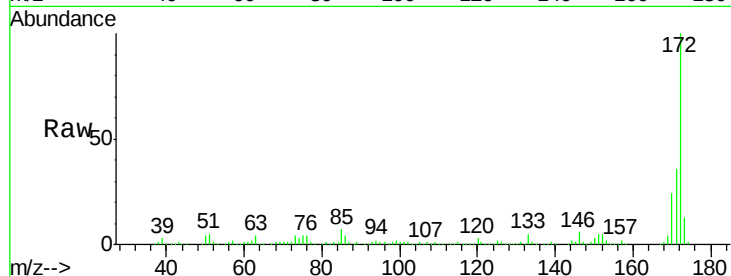




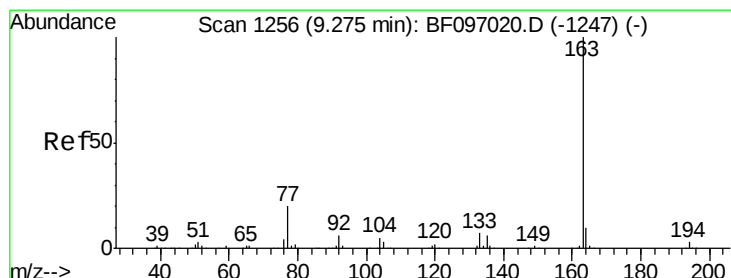
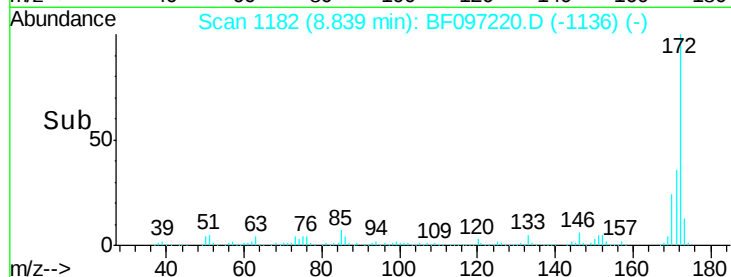
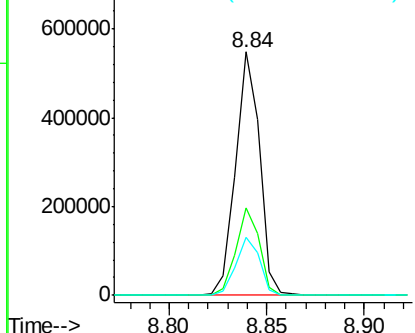
#44
 2-Fluorobiphenyl
 Concen: 40.83 ng
 RT: 8.84 min Scan# 1182
 Delta R.T. -0.03 min
 Lab File: BF097220.D
 Acq: 31 Jul 2017 20:56

Instrument :
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Tot Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.6	44.4
170	24.1	19.8	29.8

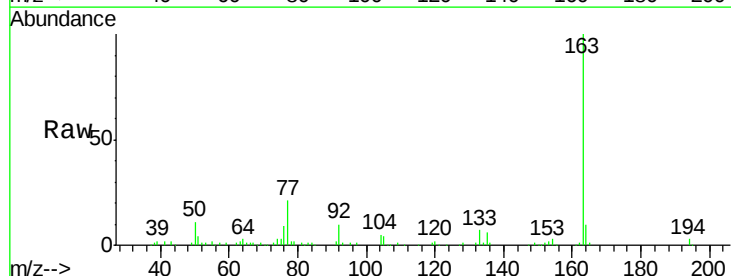


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

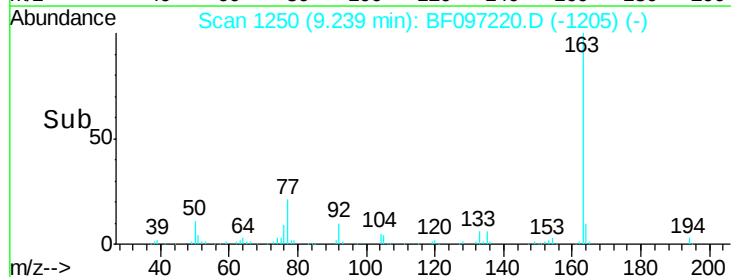
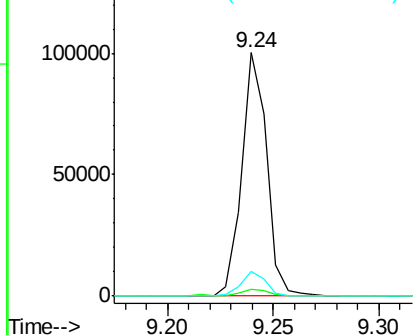


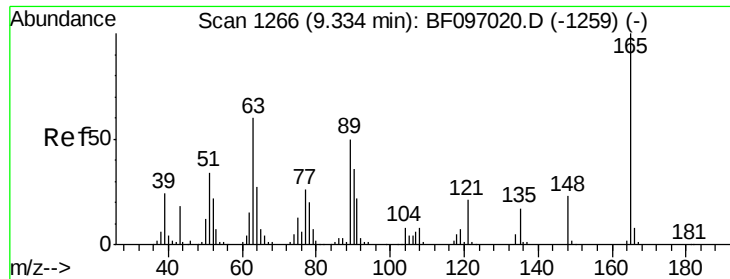
#49
 Dimethylphthalate
 Concen: 5.53 ng
 RT: 9.24 min Scan# 1250
 Delta R.T. -0.04 min
 Lab File: BF097220.D
 Acq: 31 Jul 2017 20:56

Tgt Ion	Ratio	Lower	Upper
163	100		
194	2.8	2.6	4.0
164	10.1	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

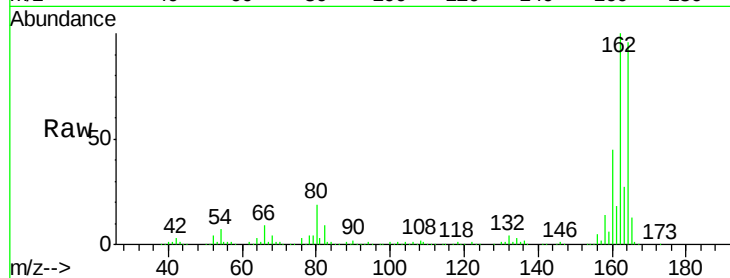




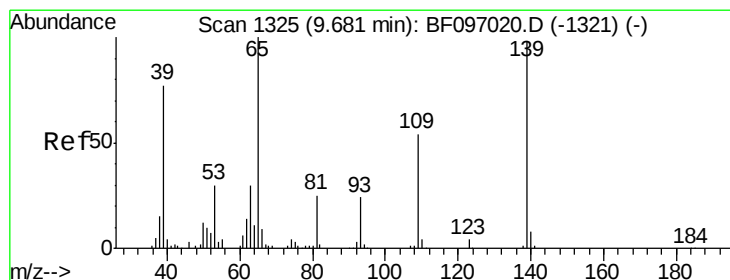
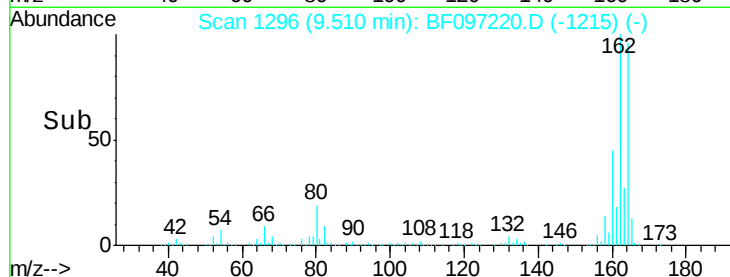
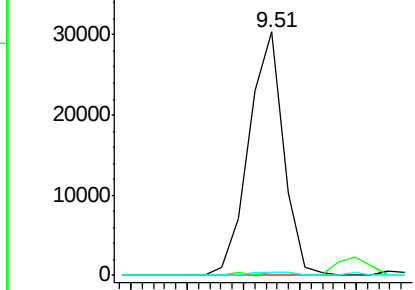
#50
 2,6-Dinitrotoluene
 Concen: 8.21 ng
 RT: 9.51 min Scan# 1296
 Delta R.T. 0.18 min
 Lab File: BF097220.D
 Acq: 31 Jul 2017 20:56

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-072717-C

Tot Ion:165 Resp: 25722
 Ion Ratio Lower Upper
 165 100
 63 1.4 34.3 51.5#
 89 1.4 37.1 55.7#

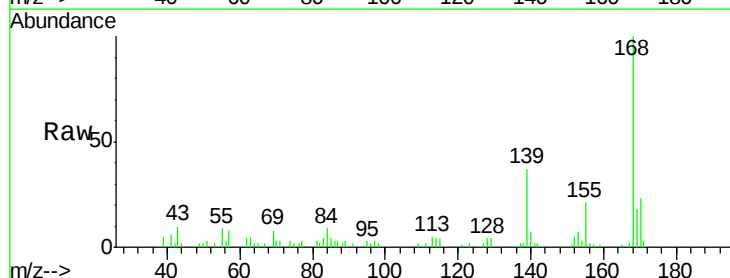


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

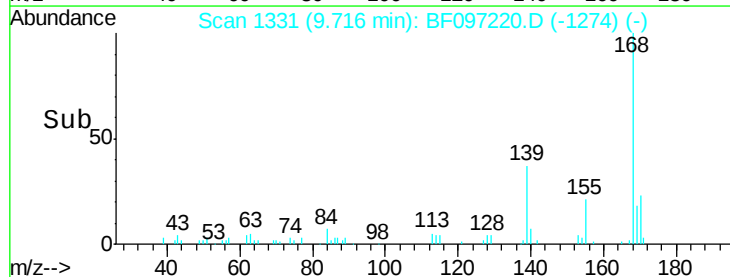
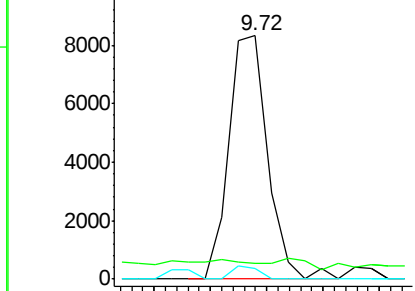


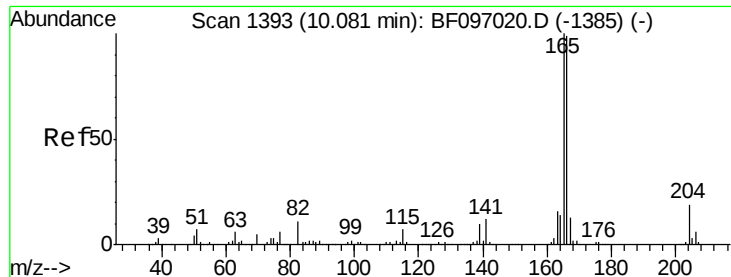
#55
 4-Nitrophenol
 Concen: 3.43 ng
 RT: 9.72 min Scan# 1331
 Delta R.T. 0.04 min
 Lab File: BF097220.D
 Acq: 31 Jul 2017 20:56

Tgt Ion:139 Resp: 7940
 Ion Ratio Lower Upper
 139 100
 109 6.5 34.1 74.1#
 65 4.6 31.4 71.4#



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





#57

Fluorene

Concen: 4.11 ng

RT: 10.05 min Scan# 1388

Delta R.T. -0.03 min

Lab File: BF097220.D

Acq: 31 Jul 2017 20:56

Instrument :

BNA_F

ClientSampleId :

CL-02-072717-C

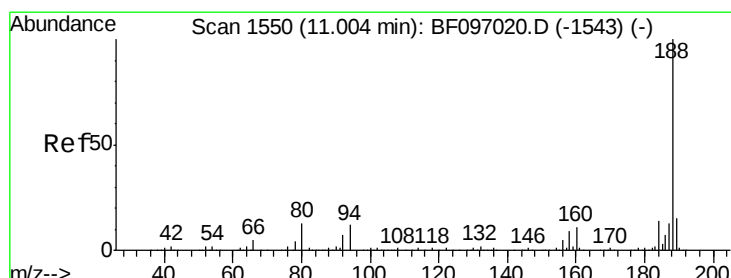
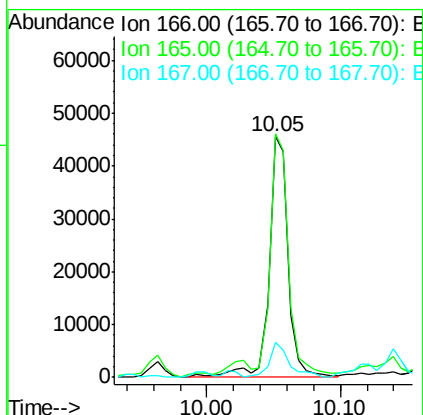
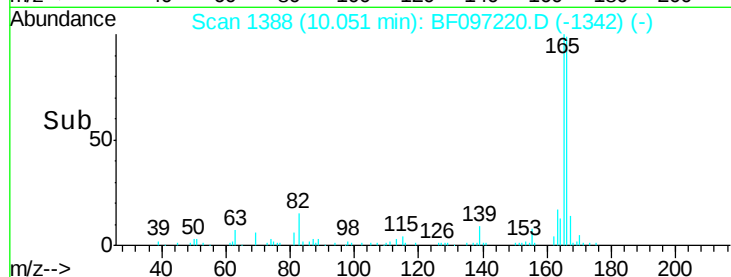
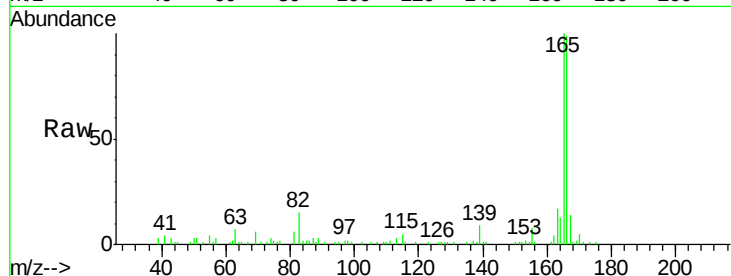
Tot Ion:166 Resp: 45488

Ion Ratio Lower Upper

166 100

165 101.2 78.8 118.2

167 14.3 10.6 16.0



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 10.99 min Scan# 1547

Delta R.T. -0.02 min

Lab File: BF097220.D

Acq: 31 Jul 2017 20:56

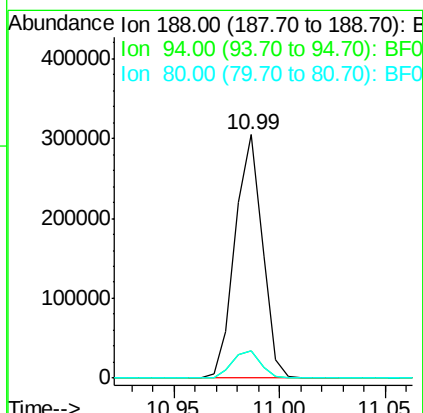
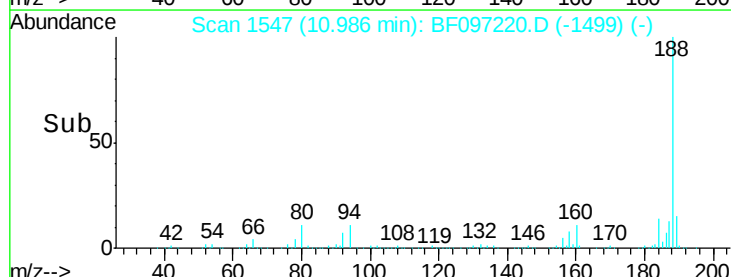
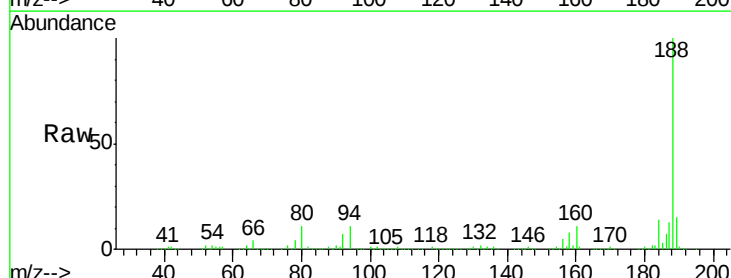
Tgt Ion:188 Resp: 270875

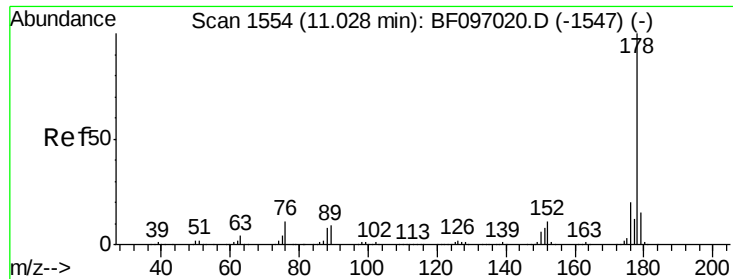
Ion Ratio Lower Upper

188 100

94 11.1 9.4 14.2

80 11.2 10.2 15.2

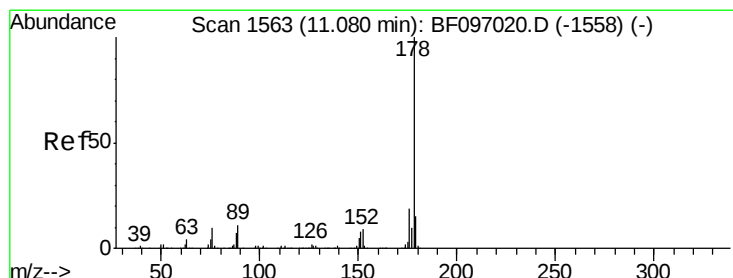
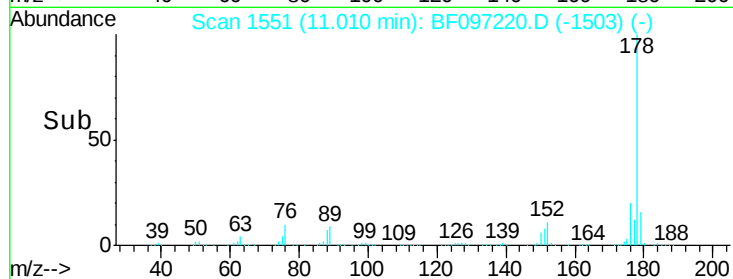
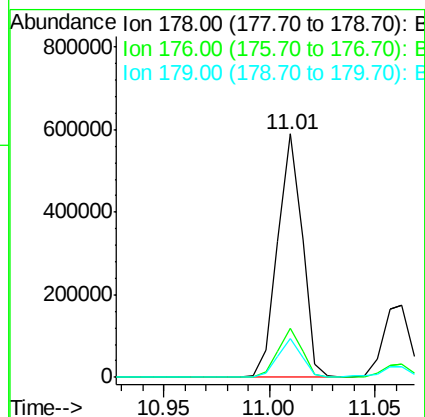
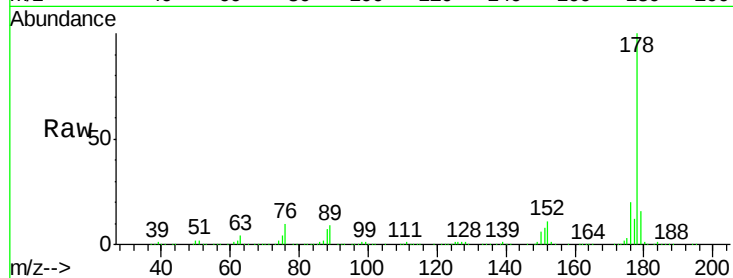




#70
Phenanthrene
Concen: 33.19 ng
RT: 11.01 min Scan# 1551
Delta R.T. -0.02 min
Lab File: BF097220.D
Acq: 31 Jul 2017 20:56

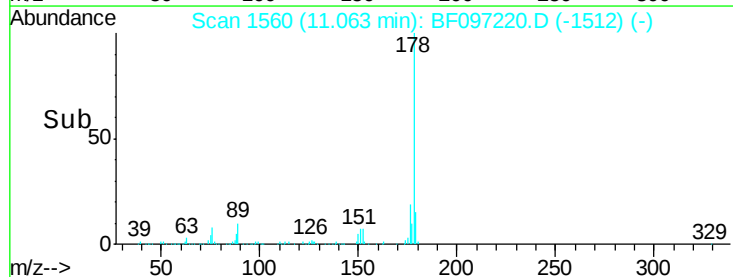
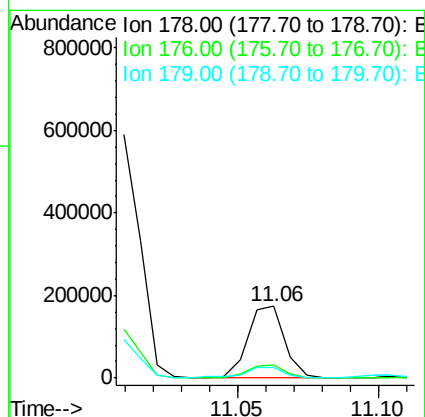
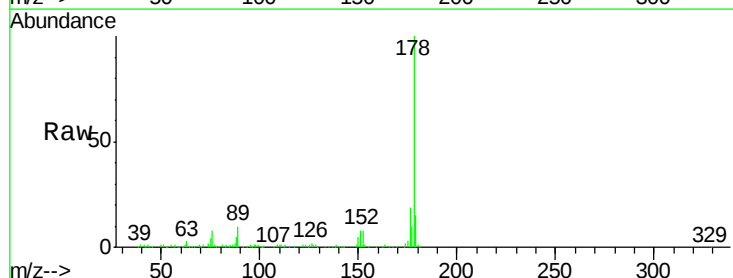
Instrument :
BNA_F
ClientSampleId :
CL-02-072717-C

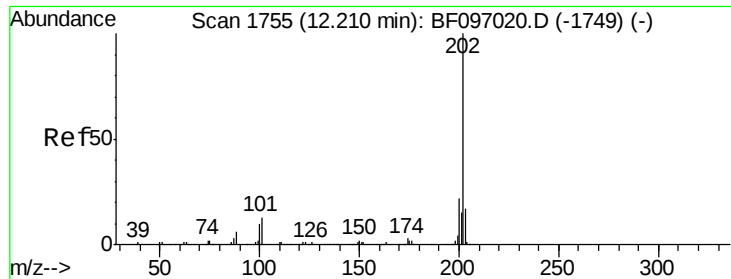
Tot Ion:178 Resp: 481729
Ion Ratio Lower Upper
178 100
176 20.1 16.2 24.4
179 15.9 12.6 19.0



#71
Anthracene
Concen: 10.58 ng
RT: 11.06 min Scan# 1560
Delta R.T. -0.02 min
Lab File: BF097220.D
Acq: 31 Jul 2017 20:56

Tgt Ion:178 Resp: 157259
Ion Ratio Lower Upper
178 100
176 19.1 15.8 23.8
179 15.1 12.7 19.1

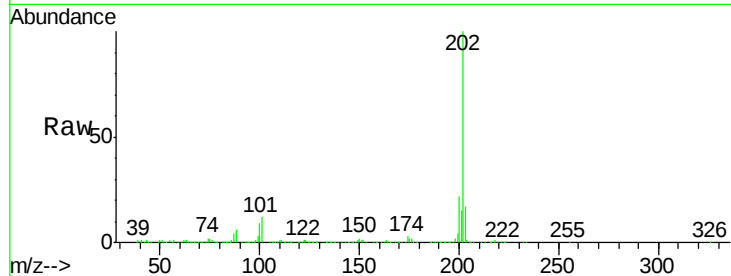




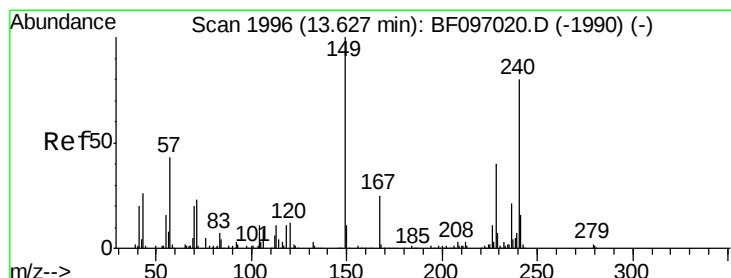
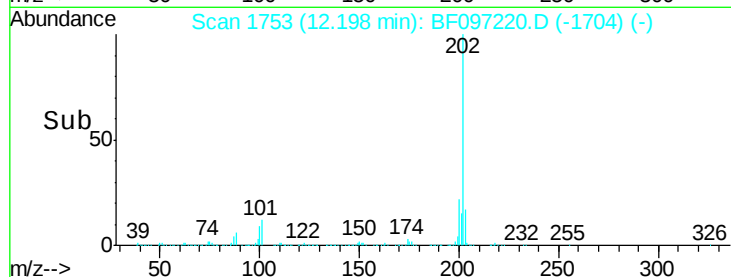
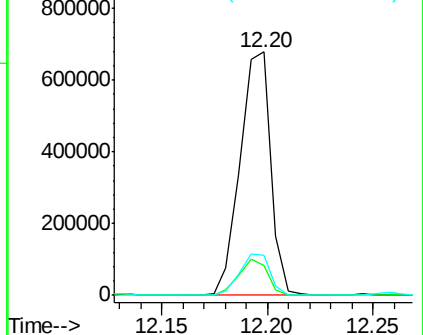
#74
 Fluoranthene
 Concen: 47.78 ng
 RT: 12.20 min Scan# 1753
 Delta R.T. -0.01 min
 Lab File: BF097220.D
 Acq: 31 Jul 2017 20:56

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-072717-C

Tot Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	33.2
203	16.7	0.0	38.1

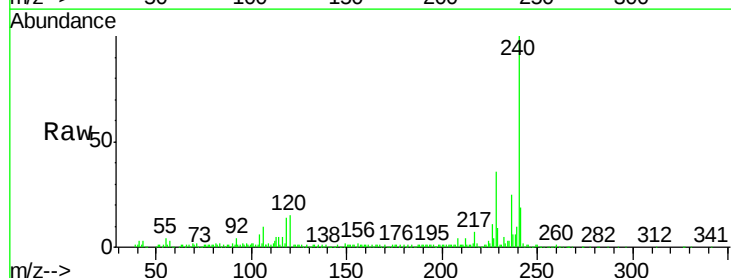


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

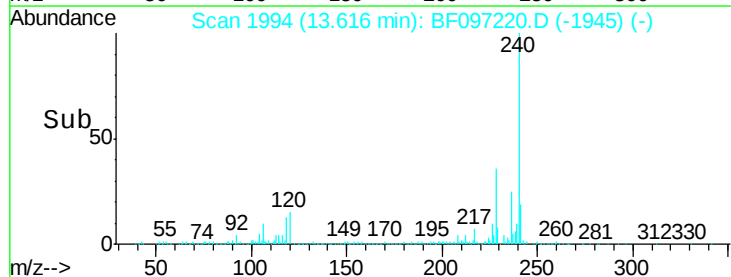
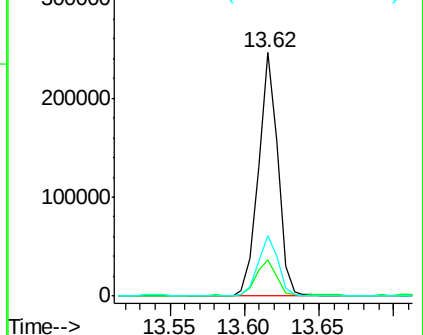


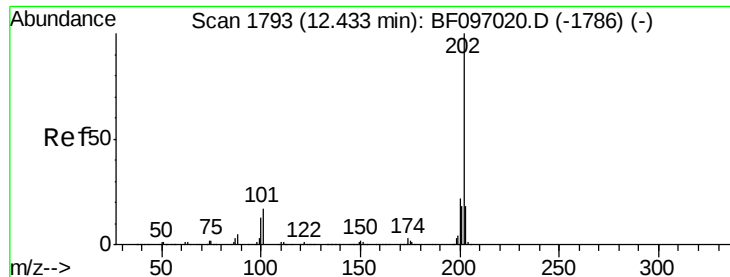
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 13.62 min Scan# 1994
 Delta R.T. -0.01 min
 Lab File: BF097220.D
 Acq: 31 Jul 2017 20:56

Tgt Ion	Ratio	Lower	Upper
240	100		
120	15.0	5.8	8.8#
236	25.1	20.5	30.7



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

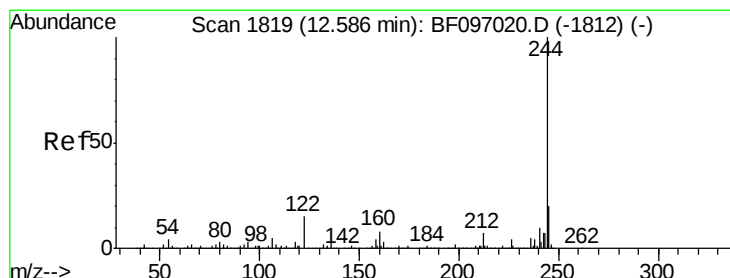
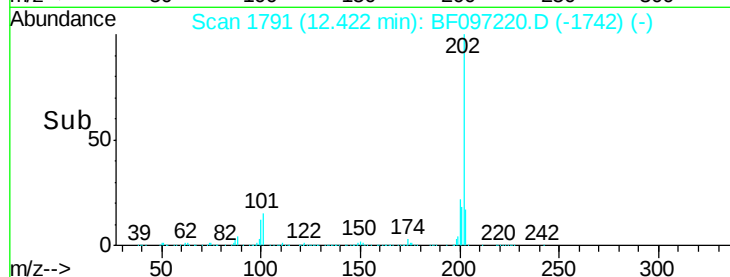
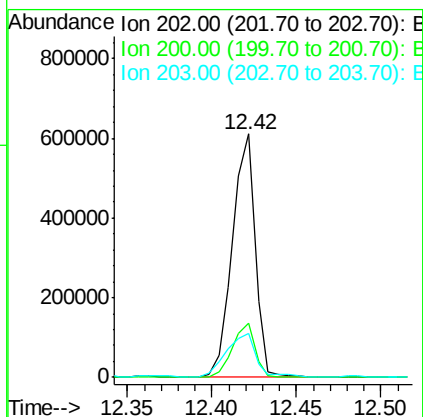
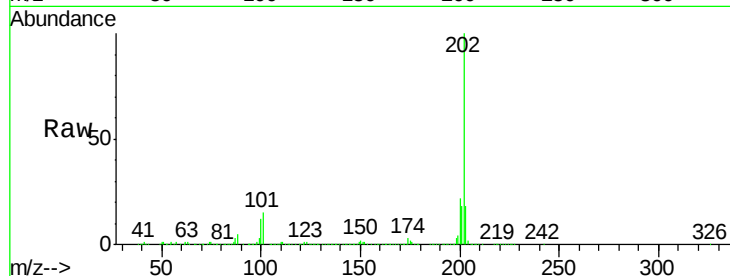




#77
Pvrene
Concen: 32.28 ng
RT: 12.42 min Scan# 1791
Delta R.T. -0.01 min
Lab File: BF097220.D
Acq: 31 Jul 2017 20:56

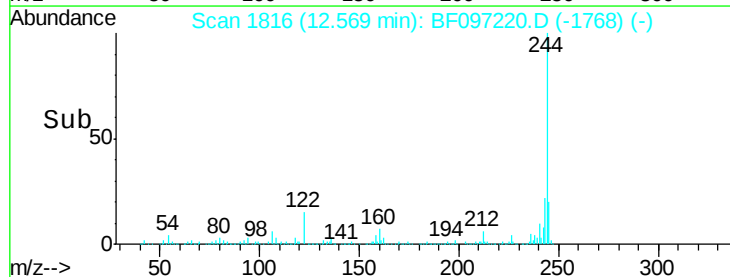
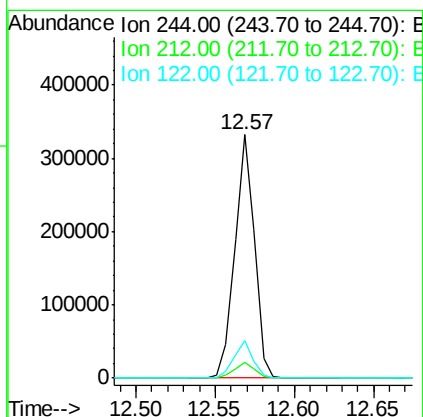
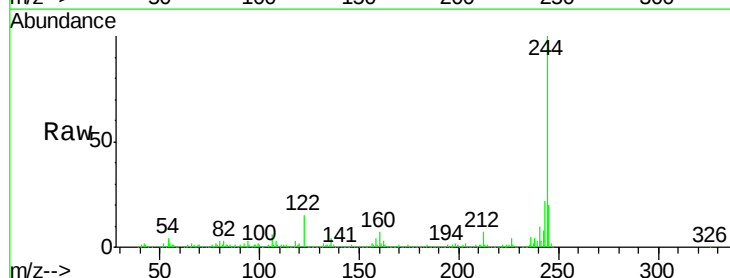
Instrument :
BNA_F
ClientSampleId :
CL-02-072717-C

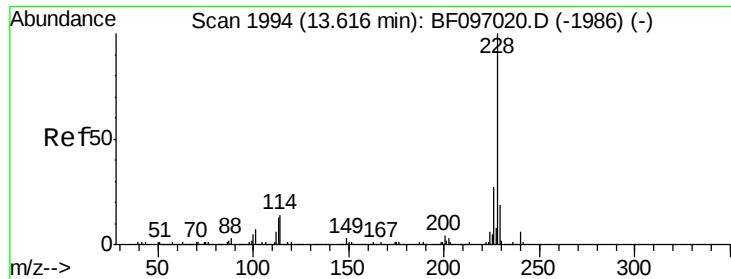
Tot Ion:202 Resp: 572302
Ion Ratio Lower Upper
202 100
200 22.1 17.6 26.4
203 17.8 14.4 21.6



#78
Terphenyl-d14
Concen: 26.84 ng
RT: 12.57 min Scan# 1816
Delta R.T. -0.02 min
Lab File: BF097220.D
Acq: 31 Jul 2017 20:56

Tgt Ion:244 Resp: 285160
Ion Ratio Lower Upper
244 100
212 6.6 6.0 9.0
122 15.4 10.3 15.5

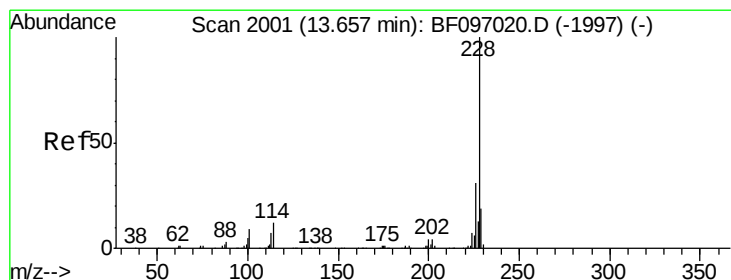
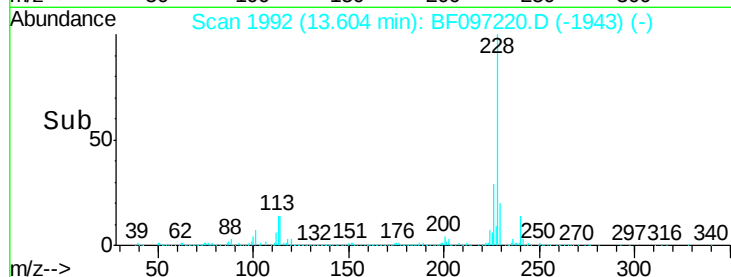
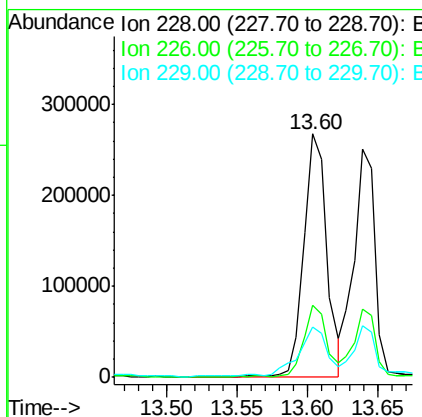
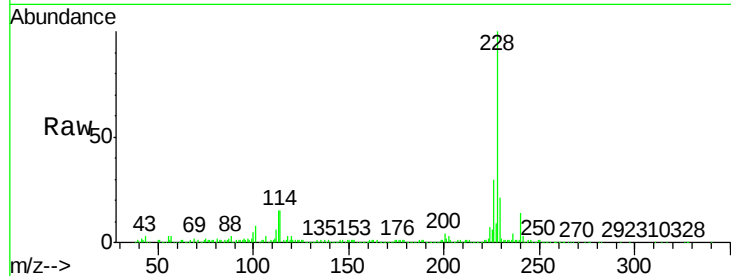




#80
Benzo(a)anthracene
Concen: 21.52 ng
RT: 13.60 min Scan# 1992
Delta R.T. -0.01 min
Lab File: BF097220.D
Acq: 31 Jul 2017 20:56

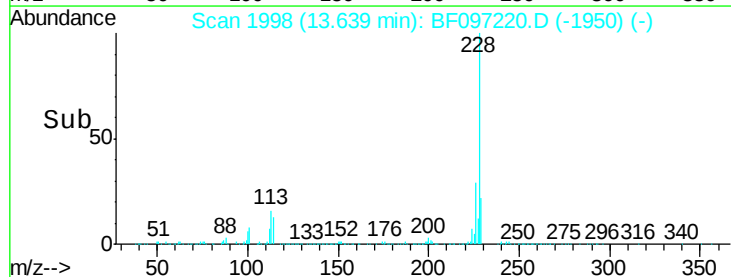
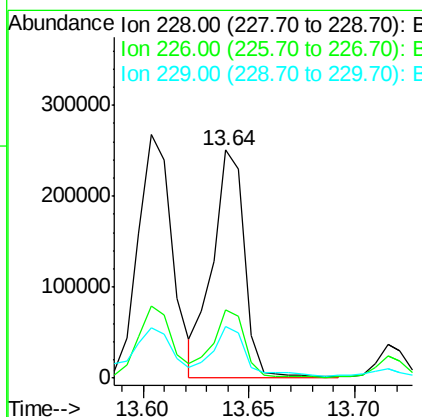
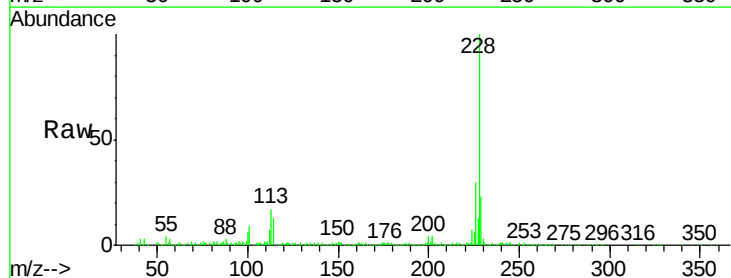
Instrument :
BNA_F
ClientSampleId :
CL-02-072717-C

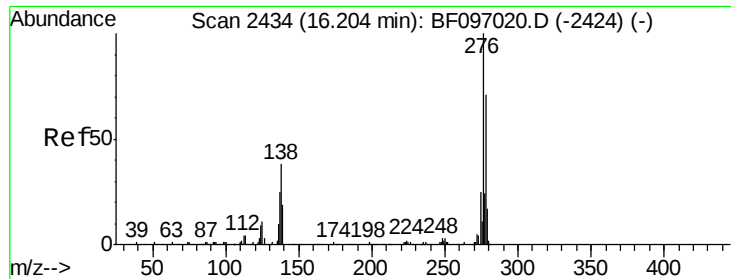
Tot Ion:228 Resp: 301653
Ion Ratio Lower Upper
228 100
226 29.8 22.6 33.8
229 20.8 16.3 24.5



#82
Chrysene
Concen: 19.09 ng
RT: 13.64 min Scan# 1998
Delta R.T. -0.02 min
Lab File: BF097220.D
Acq: 31 Jul 2017 20:56

Tgt Ion:228 Resp: 261277
Ion Ratio Lower Upper
228 100
226 30.1 24.9 37.3
229 22.7 15.8 23.6

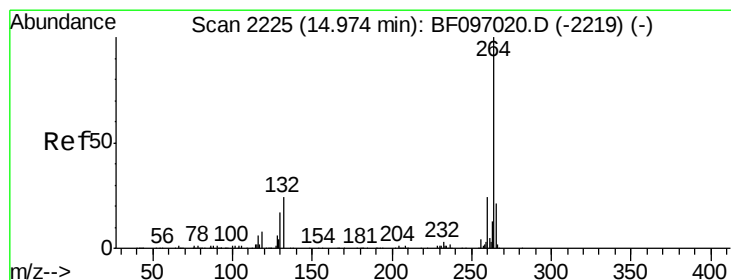
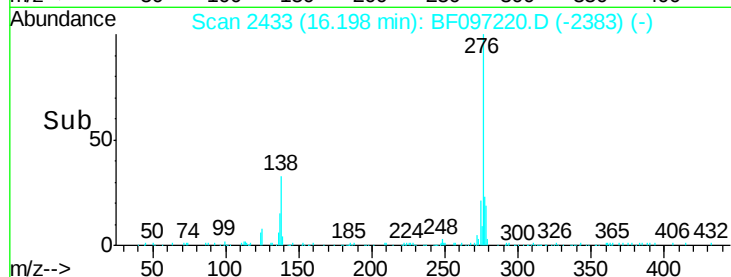
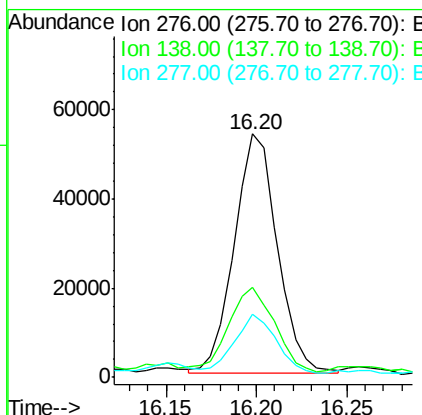
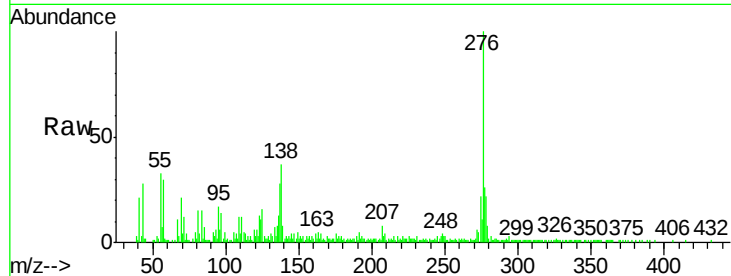




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 7.60 ng
 RT: 16.20 min Scan# 2433
 Delta R.T. -0.01 min
 Lab File: BF097220.D
 Acq: 31 Jul 2017 20:56

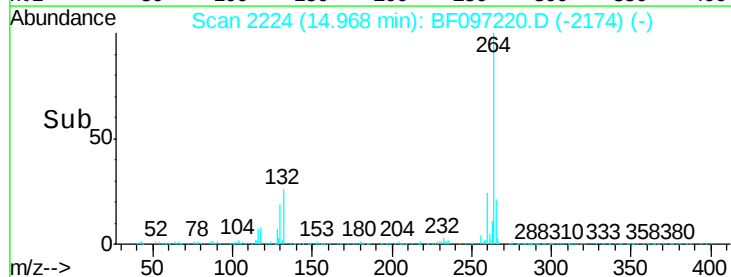
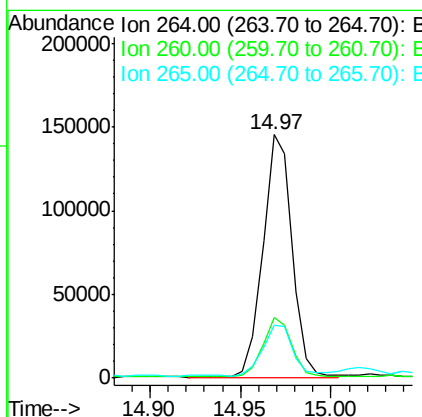
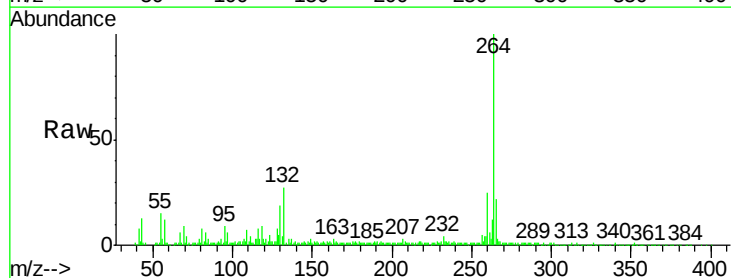
Instrument :
 BNA_F
 ClientSampleId :
 CL-02-072717-C

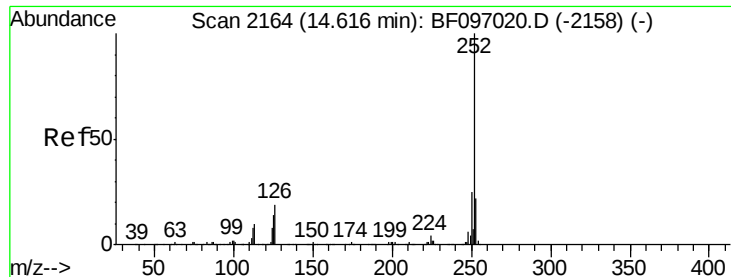
Tot Ion:276 Resp: 89150
 Ion Ratio Lower Upper
 276 100
 138 37.5 27.8 41.6
 277 23.9 20.2 30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 14.97 min Scan# 2224
 Delta R.T. -0.01 min
 Lab File: BF097220.D
 Acq: 31 Jul 2017 20:56

Tgt Ion:264 Resp: 161343
 Ion Ratio Lower Upper
 264 100
 260 25.0 19.5 29.3
 265 21.7 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 36.02 ng

RT: 14.61 min Scan# 2163

Delta R.T. -0.01 min

Lab File: BF097220.D

Acq: 31 Jul 2017 20:56

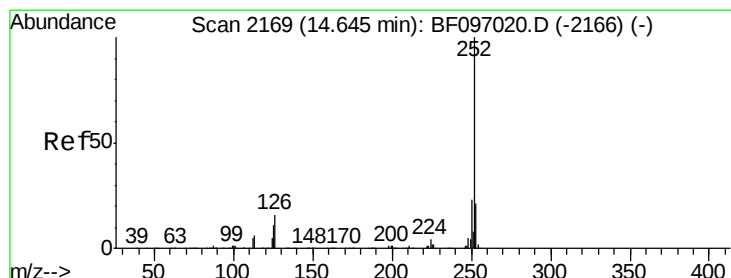
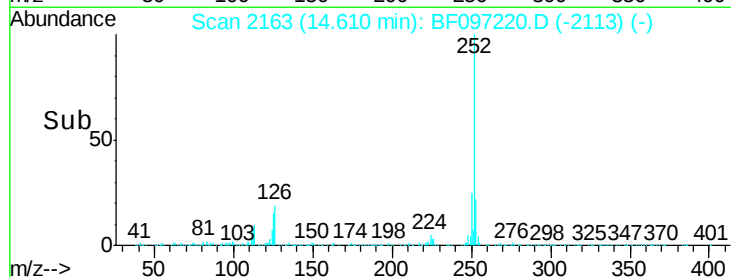
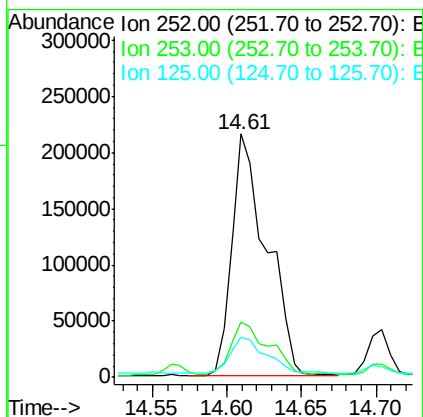
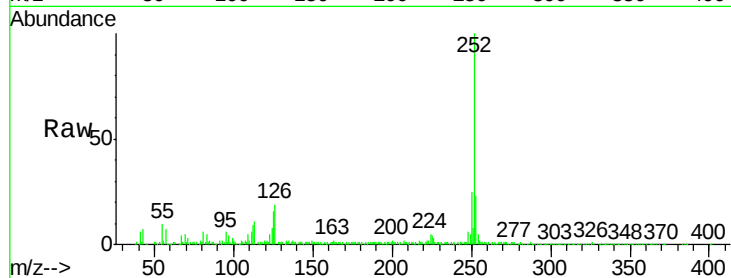
Instrument :

BNA_F

ClientSampleId :

CL-02-072717-C

Tot Ion:252	Resp:	349326
Ion Ratio	Lower	Upper
252	100	
253	22.8	18.1 27.1
125	16.5	9.8 14.8#



#88

Benzo(k)fluoranthene

Concen: 37.80 ng

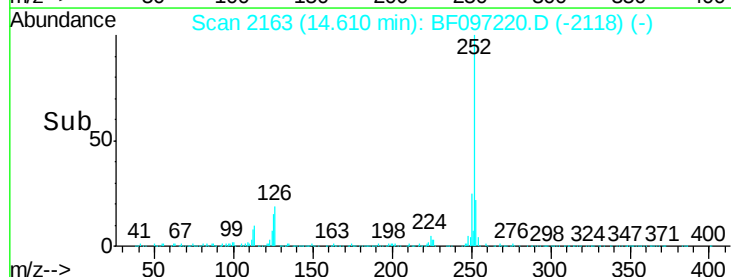
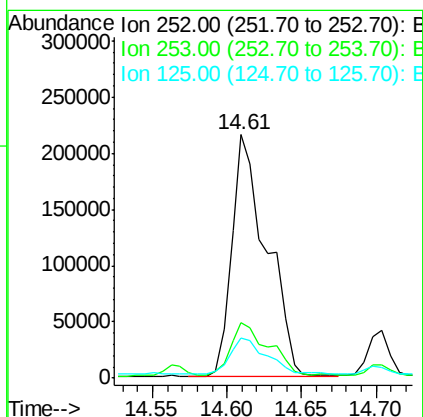
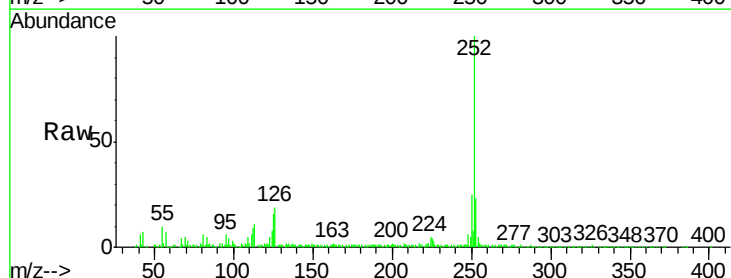
RT: 14.61 min Scan# 2163

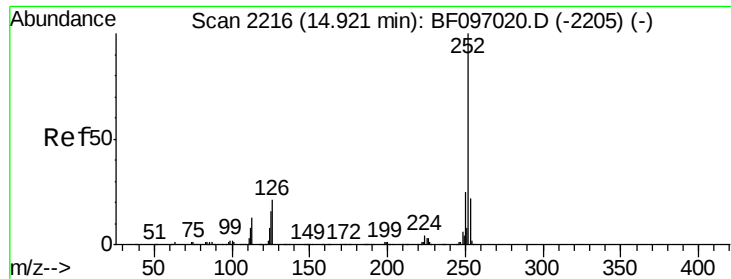
Delta R.T. -0.04 min

Lab File: BF097220.D

Acq: 31 Jul 2017 20:56

Tgt Ion:252	Resp:	349326
Ion Ratio	Lower	Upper
252	100	
253	22.8	18.4 27.6
125	16.5	13.1 19.7





#89

Benzo(a)pyrene

Concen: 19.38 ng

RT: 14.92 min Scan# 2216

Delta R.T. 0.00 min

Lab File: BF097220.D

Acq: 31 Jul 2017 20:56

Instrument :

BNA_F

ClientSampleId :

CL-02-072717-C

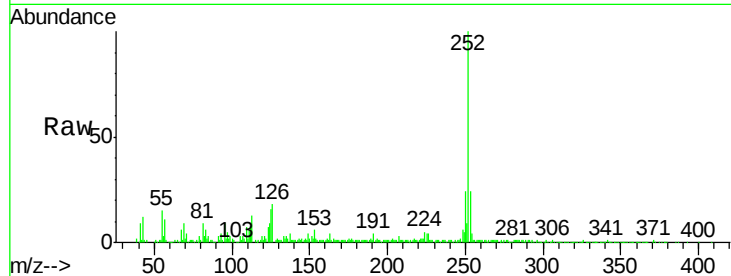
Tot Ion:252 Resp: 172028

Ion Ratio Lower Upper

252 100

253 24.4 17.5 26.3

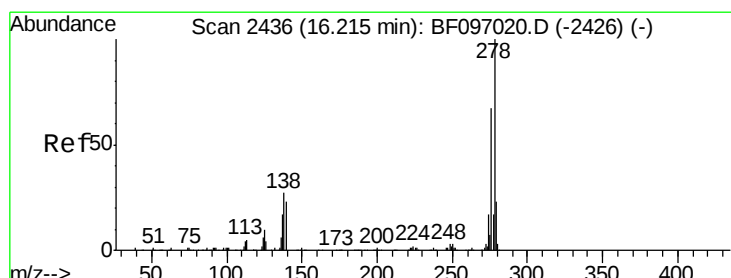
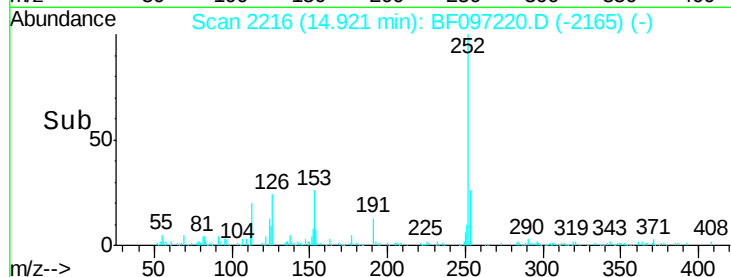
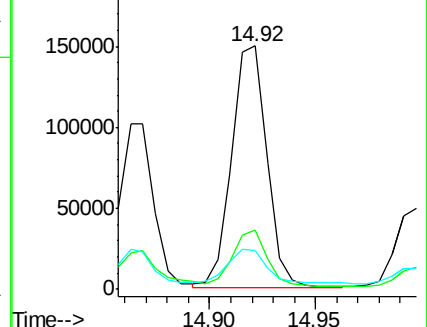
125 16.0 11.0 16.4



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



#90

Dibenzo(a,h)anthracene

Concen: 3.18 ng

RT: 16.20 min Scan# 2434

Delta R.T. -0.01 min

Lab File: BF097220.D

Acq: 31 Jul 2017 20:56

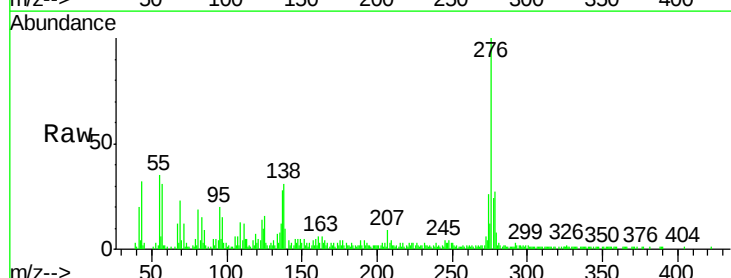
Tgt Ion:278 Resp: 23173

Ion Ratio Lower Upper

278 100

139 35.9 16.6 24.8#

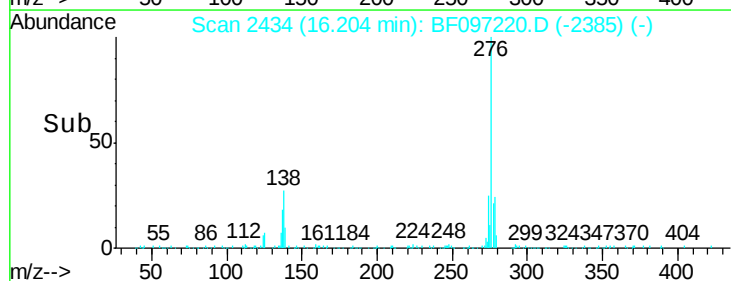
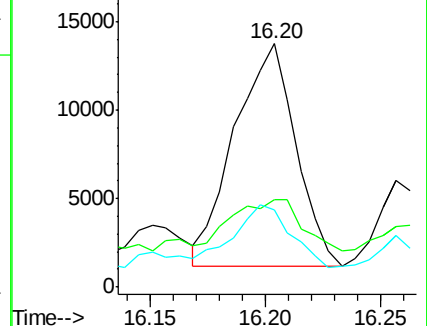
279 31.5 19.3 28.9#

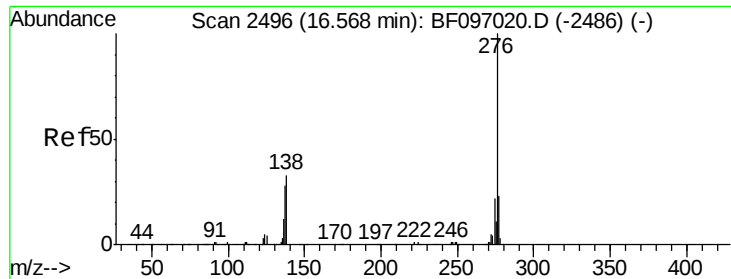


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 9.95 ng
 RT: 16.56 min Scan# 2495
 Delta R.T. -0.01 min
 Lab File: BF097220.D
 Acq: 31 Jul 2017 20:56

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-072717-C

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.6	28.0
138	35.6	25.4	38.0

