

Data Path : Z:\HPCHEM1\BNA F\DATA\BF083017\
 Data File : BF098180.D
 Acq On : 31 Aug 2017 2:37
 Operator : SJ/JU
 Sample : I5024-07 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 31 06:52:45 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	6.73	152	136694	20.00	ng	-0.02
21) Naphthalene-d8	8.01	136	535621	20.00	ng	-0.02
38) Acenaphthene-d10	9.76	164	220829	20.00	ng	-0.03
63) Phenanthrene-d10	11.24	188	359860	20.00	ng	-0.02
75) Chrysene-d12	13.87	240	265368	20.00	ng	-0.02
86) Perylene-d12	15.29	264	198777	20.00	ng	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.33	112	584073	64.99	ng	-0.02
7) Phenol-d6	6.36	99	789444	64.65	ng	-0.02
23) Nitrobenzene-d5	7.29	82	477248	48.40	ng	-0.04
41) 2,4,6-Tribromophenol	10.55	330	121941	63.64	ng	-0.03
44) 2-Fluorobiphenyl	9.09	172	699445	46.54	ng	-0.02
78) Terphenyl-d14	12.83	244	458525	36.03	ng	-0.02

Target Compounds

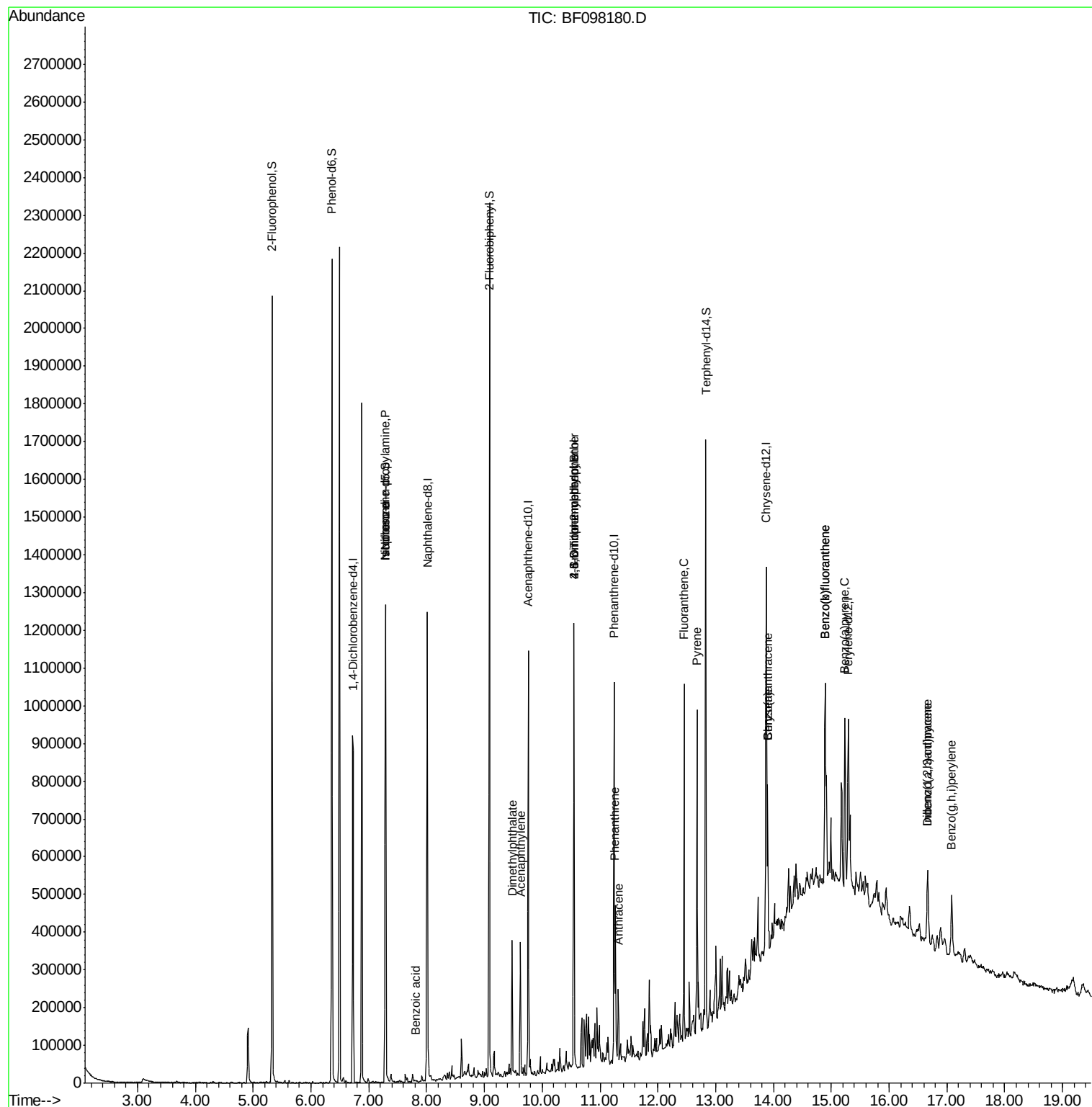
						Qvalue
19) n-Nitroso-di-n-propylamine	7.29	70	63832	7.637	ng	# 72
25) Isophorone	7.29	82	468214	22.838	ng	# 67
32) Benzoic acid	7.80	122	131	6.423	ng	# 1
48) Acenaphthylene	9.62	152	141177	6.042	ng	97
49) Dimethylphthalate	9.48	163	125495	7.774	ng	99
64) 4,6-Dinitro-2-methylphenol	10.55	198	168	8.403	ng	# 1
66) 4-Bromophenyl-phenylether	10.55	248	7965	2.131	ng	# 1
70) Phenanthrene	11.26	178	131521	6.859	ng	99
71) Anthracene	11.32	178	64943	3.339	ng	98
74) Fluoranthene	12.45	202	331708	16.573	ng	99
77) Pyrene	12.68	202	329001	15.159	ng	98
80) Benzo(a)anthracene	13.90	228	193807	12.186	ng	95
82) Chrysene	13.90	228	193807	12.250	ng	98
85) Indeno(1,2,3-cd)pyrene	16.67	276	124581	10.704	ng	# 90
87) Benzo(b)fluoranthene	14.89	252	373839	29.837	ng	98
88) Benzo(k)fluoranthene	14.89	252	373839	31.758	ng	98
89) Benzo(a)pyrene	15.24	252	196045	17.674	ng	98
90) Dibenzo(a,h)anthracene	16.67	278	30591	3.388	ng	# 81
91) Benzo(a,h,i)perylene	17.08	276	121285	12.872	ng	94

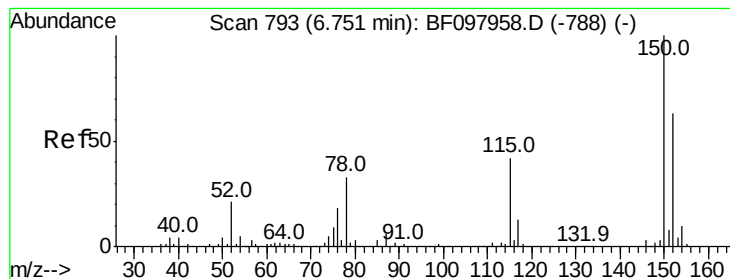
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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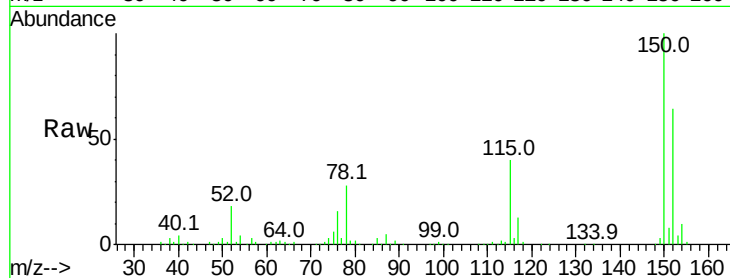


#1

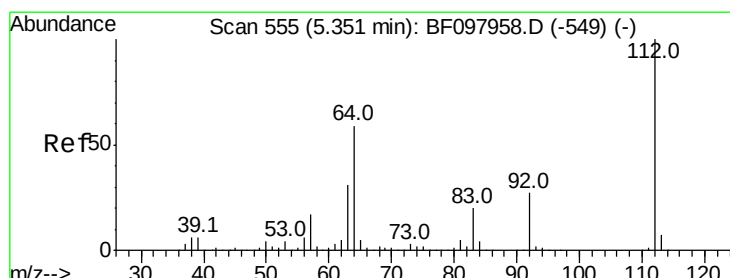
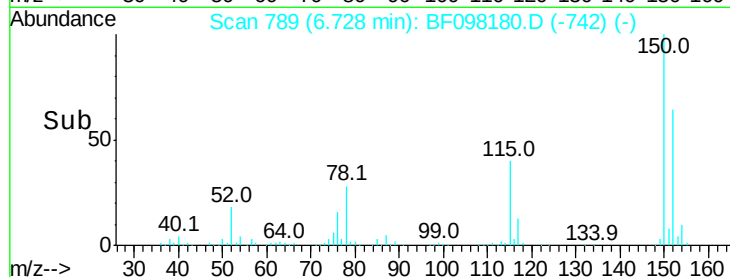
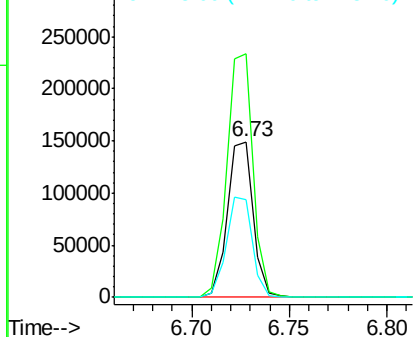
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.73 min Scan# 789
 Delta R.T. -0.02 min
 Lab File: BF098180.D
 Acq: 31 Aug 2017 2:37

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 136694
 Ion Ratio Lower Upper
 152 100
 150 156.3 126.2 189.2
 115 62.9 52.2 78.2



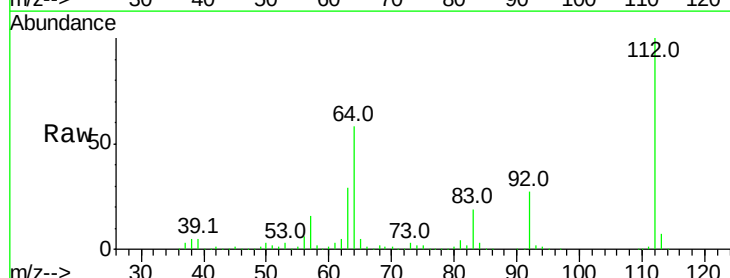
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



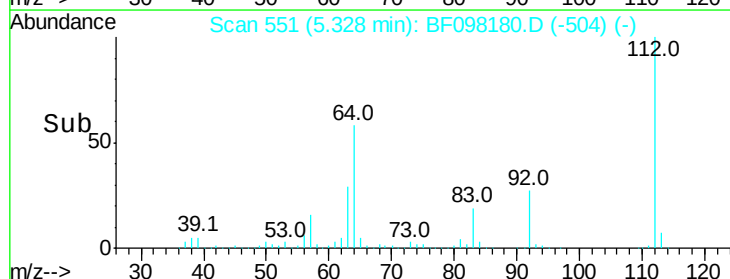
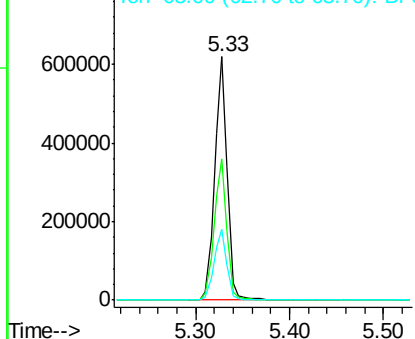
#5

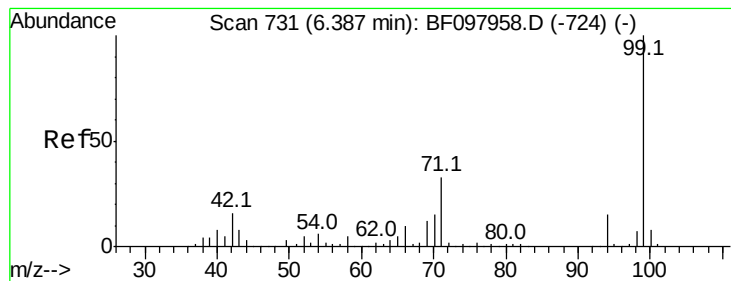
2-Fluorophenol
 Concen: 64.993 ng
 RT: 5.33 min Scan# 551
 Delta R.T. -0.02 min
 Lab File: BF098180.D
 Acq: 31 Aug 2017 2:37

Tgt Ion:112 Resp: 584073
 Ion Ratio Lower Upper
 112 100
 64 58.1 46.0 69.0
 63 29.0 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: 64.654 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF098180.D

Acq: 31 Aug 2017 2:37

Instrument :

BNA_F

ClientSampleId :

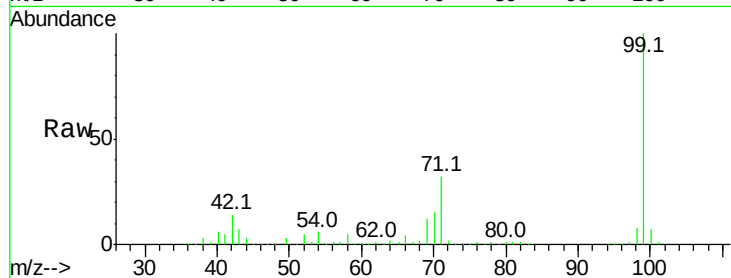
Tot Ion: 99 Resp: 789444

Ion Ratio Lower Upper

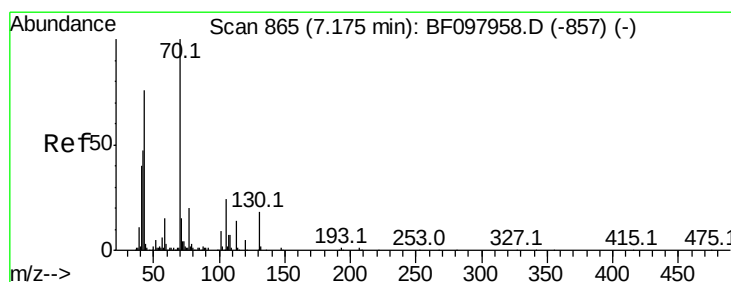
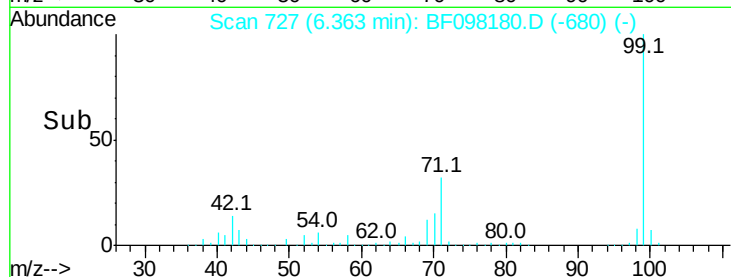
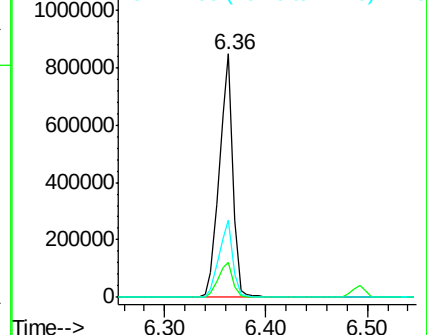
99 100

42 14.4 13.5 20.3

71 31.8 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 7.637 ng

RT: 7.29 min Scan# 884

Delta R.T. 0.11 min

Lab File: BF098180.D

Acq: 31 Aug 2017 2:37

Tgt Ion: 70 Resp: 63832

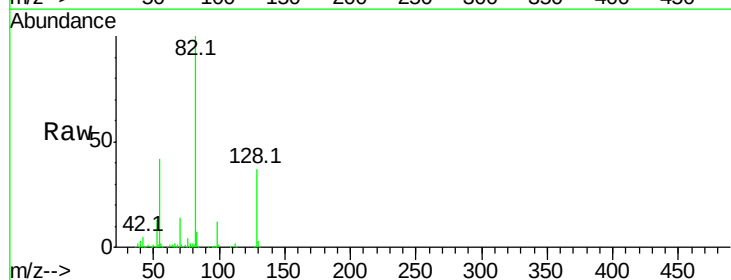
Ion Ratio Lower Upper

70 100

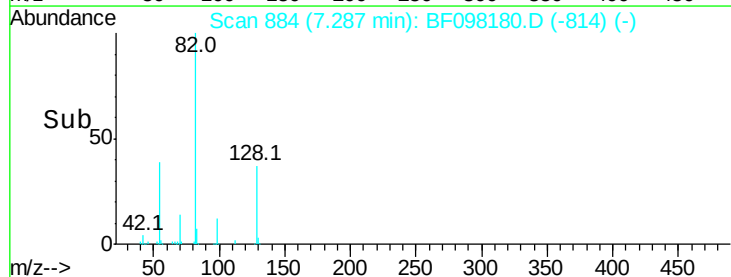
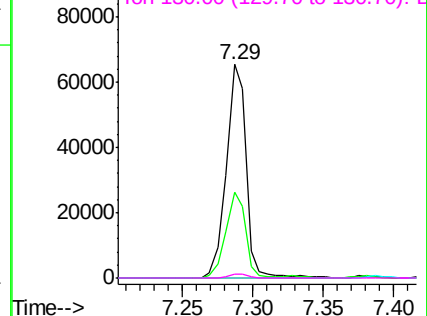
42 39.9 47.2 70.8#

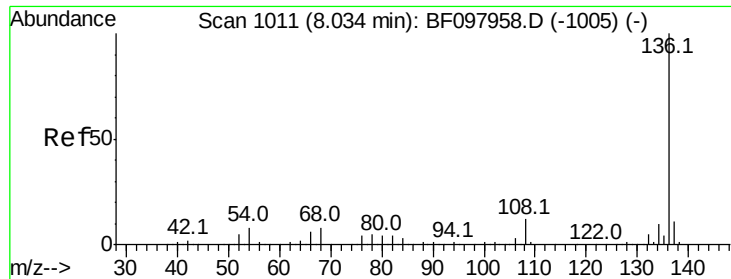
101 0.0 7.2 10.8#

130 2.1 15.9 23.9#



Abundance Ion 70.00 (69.70 to 70.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 101.00 (100.70 to 101.70): BF0
Ion 130.00 (129.70 to 130.70): BF0

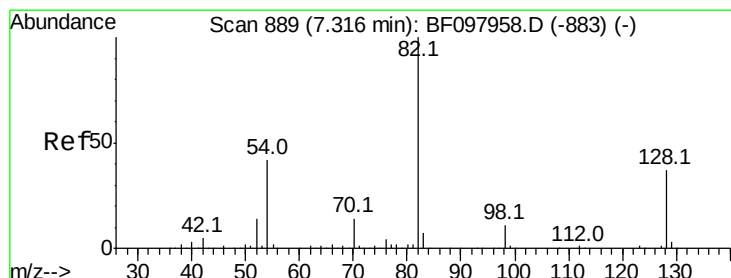
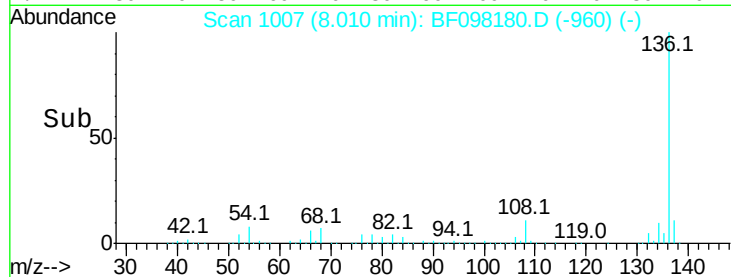
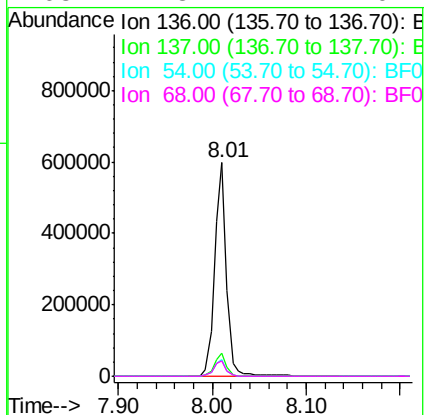
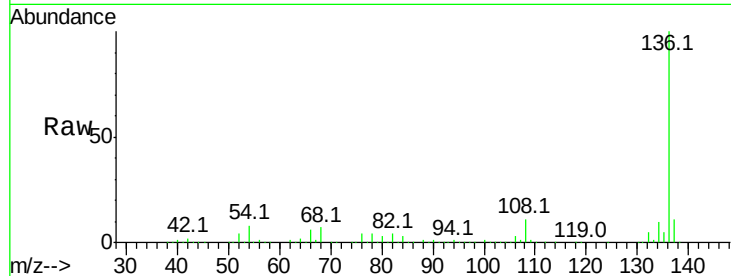




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.01 min Scan# 1007
Delta R.T. -0.02 min
Lab File: BF098180.D
Acq: 31 Aug 2017 2:37

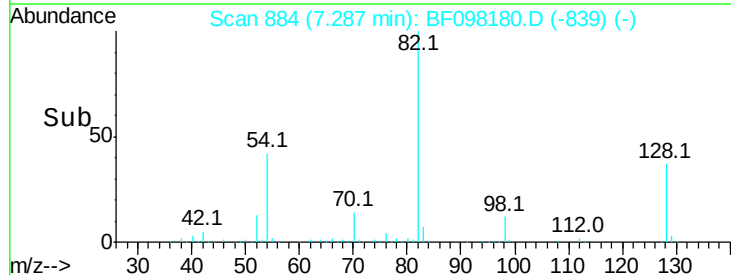
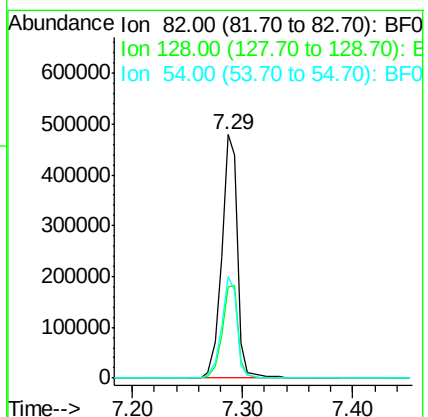
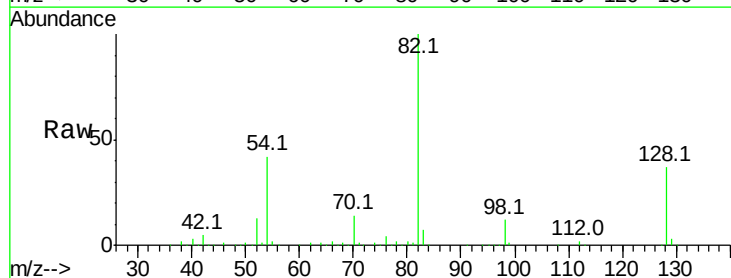
Instrument :
BNA_F
ClientSampleId :

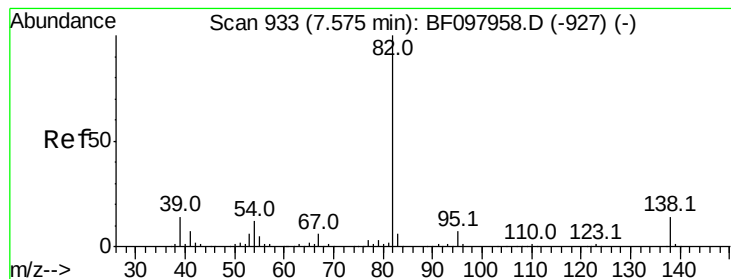
Tot Ion:	136	Resp:	535621
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.5	12.7
54	7.6	4.9	7.3#
68	7.3	4.1	6.1#



#23
Nitrobenzene-d5
Concen: 48.404 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.04 min
Lab File: BF098180.D
Acq: 31 Aug 2017 2:37

Tgt Ion:	82	Resp:	477248
Ion	Ratio	Lower	Upper
82	100		
128	37.4	34.0	51.0
54	41.6	42.2	63.2#





#25

Isophorone

Concen: 22.838 ng

RT: 7.29 min Scan# 884

Delta R.T. -0.29 min

Lab File: BF098180.D

Acq: 31 Aug 2017 2:37

Instrument :

BNA_F

ClientSampleId :

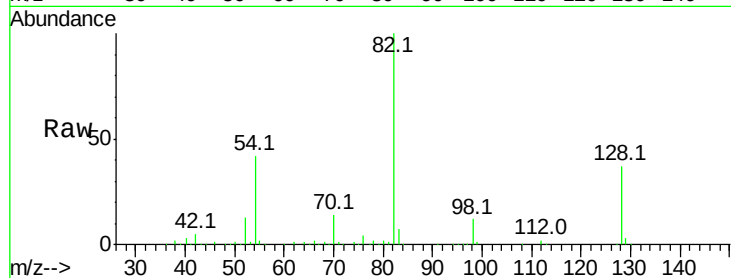
Tot Ion: 82 Resp: 468214

Ion Ratio Lower Upper

82 100

95 0.1 5.3 7.9#

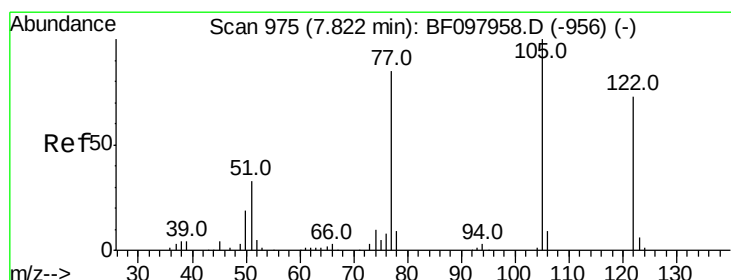
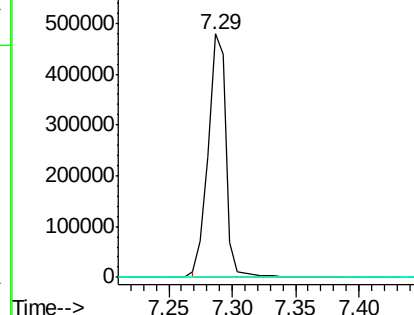
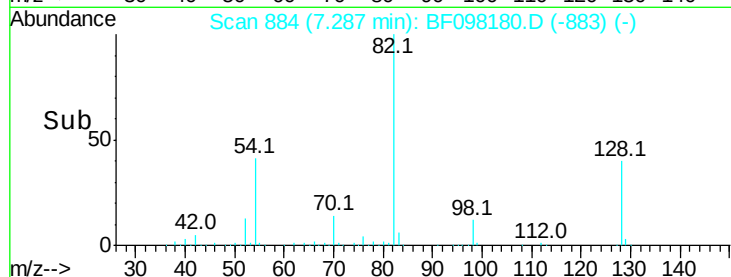
138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#32

Benzoic acid

Concen: 6.423 ng

RT: 7.80 min Scan# 972

Delta R.T. -0.03 min

Lab File: BF098180.D

Acq: 31 Aug 2017 2:37

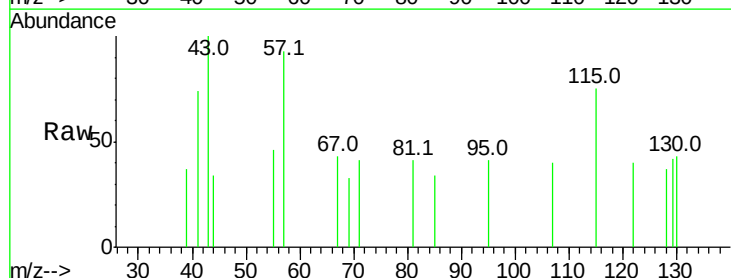
Tgt Ion: 122 Resp: 131

Ion Ratio Lower Upper

122 100

105 0.0 103.3 143.3#

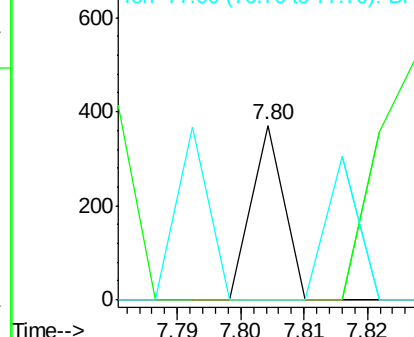
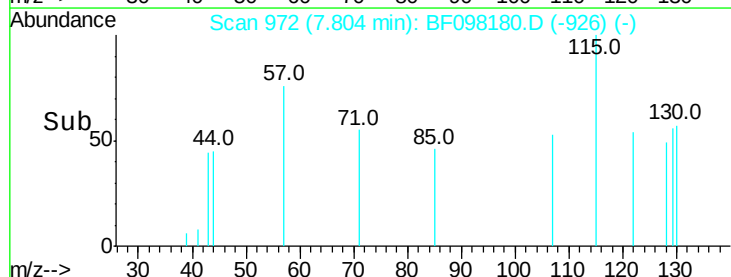
77 0.0 73.7 113.7#

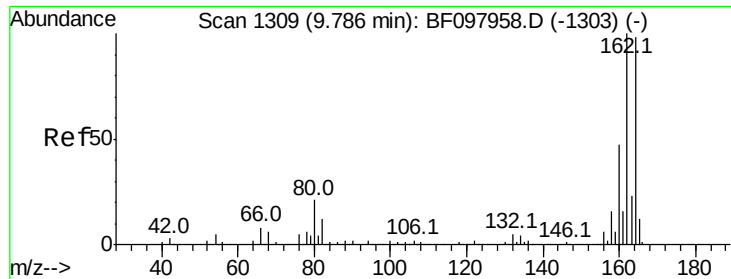


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.03 min

Lab File: BF098180.D

Acq: 31 Aug 2017 2:37

Instrument :

BNA_F

ClientSampleId :

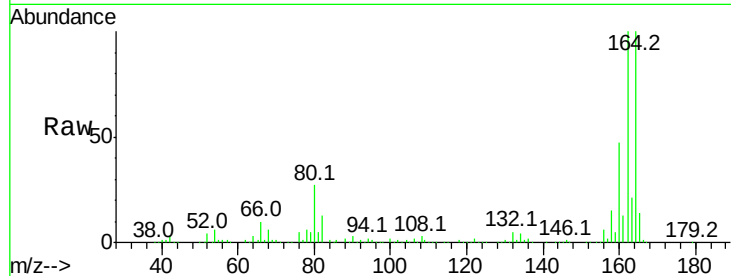
Tot Ion:164 Resp: 220829

Ion Ratio Lower Upper

164 100

162 99.8 82.6 123.8

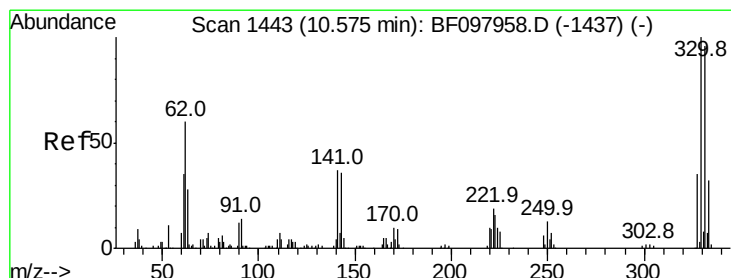
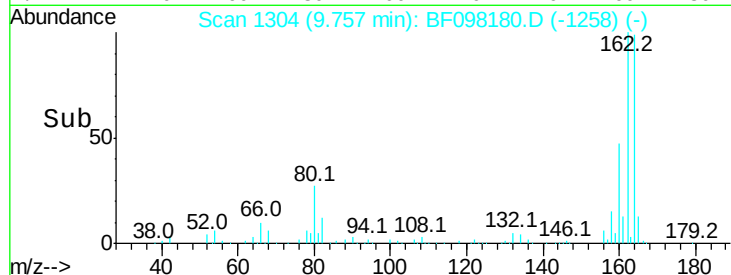
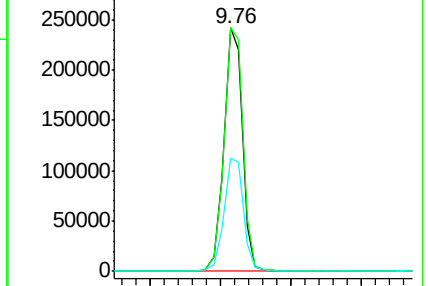
160 46.6 36.2 54.2



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: 63.642 ng

RT: 10.55 min Scan# 1438

Delta R.T. -0.03 min

Lab File: BF098180.D

Acq: 31 Aug 2017 2:37

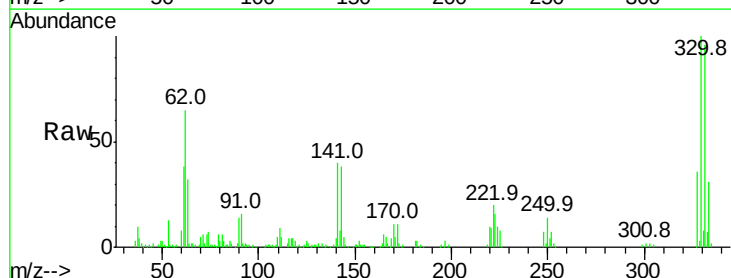
Tgt Ion:330 Resp: 121941

Ion Ratio Lower Upper

330 100

332 95.2 76.6 115.0

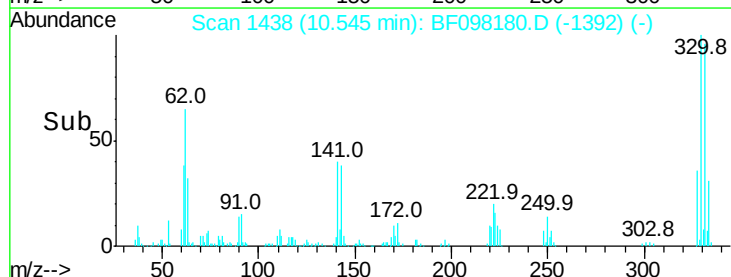
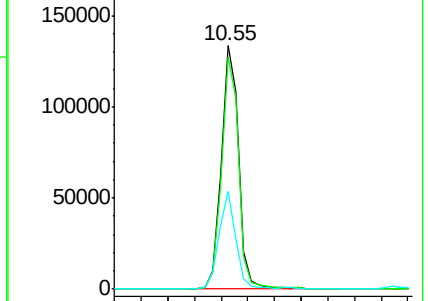
141 41.7 31.4 47.2

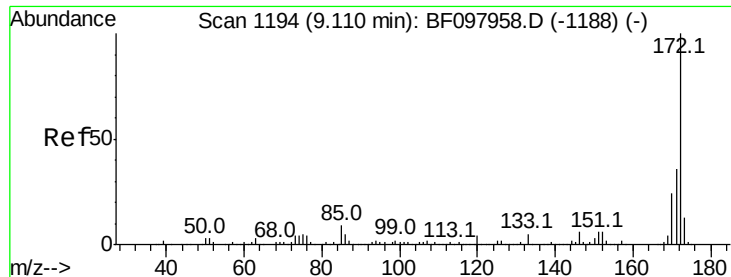


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

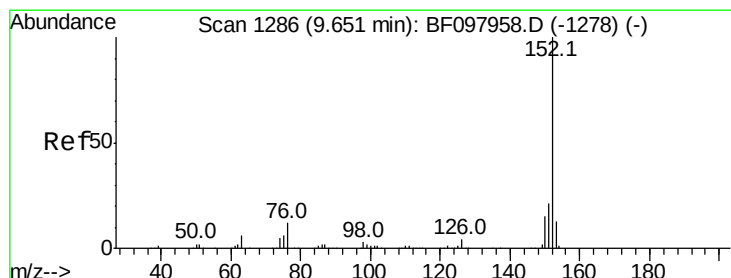
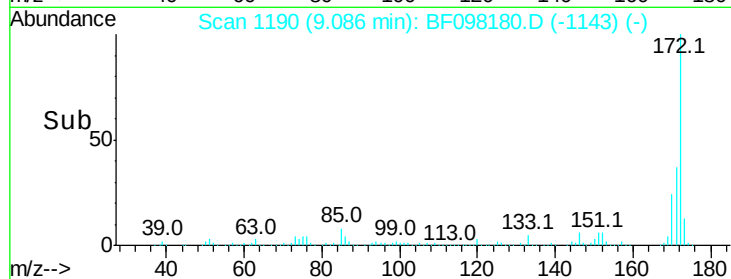
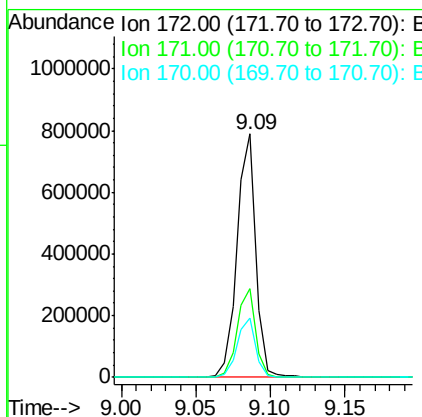
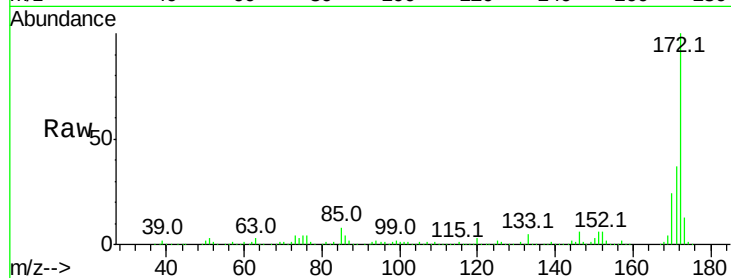




#44
 2-Fluorobiphenyl
 Concen: 46.535 ng
 RT: 9.09 min Scan# 1190
 Delta R.T. -0.02 min
 Lab File: BF098180.D
 Acq: 31 Aug 2017 2:37

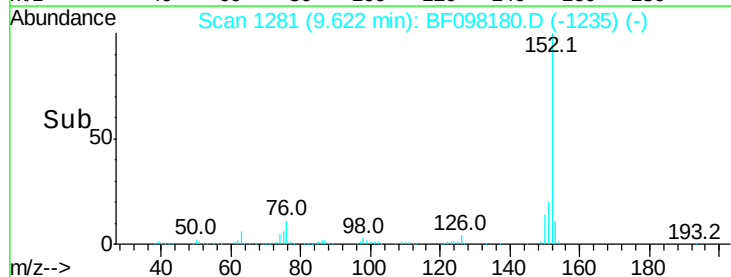
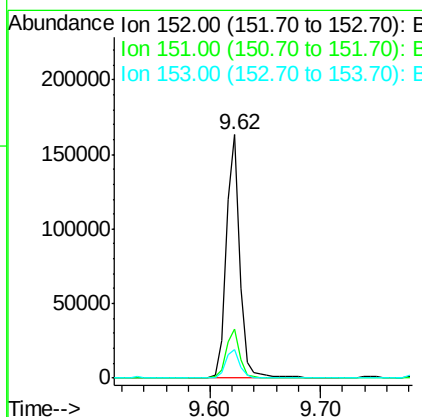
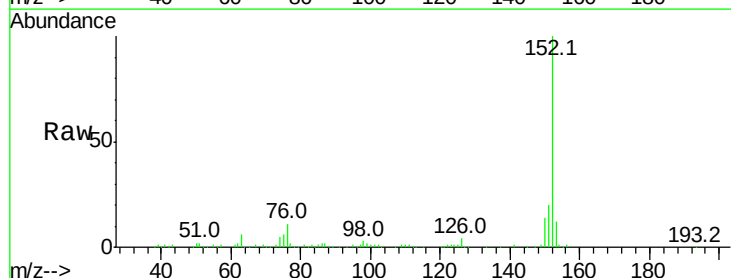
Instrument :
 BNA_F
 ClientSampleId :

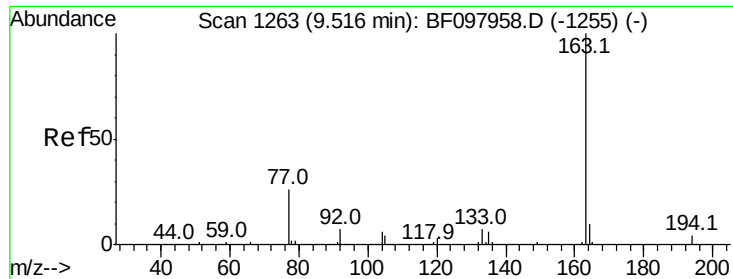
Tot Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.6	44.4
170	24.3	19.8	29.8



#48
 Acenaphthylene
 Concen: 6.042 ng
 RT: 9.62 min Scan# 1281
 Delta R.T. -0.03 min
 Lab File: BF098180.D
 Acq: 31 Aug 2017 2:37

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.8	25.2
153	11.7	10.8	16.2

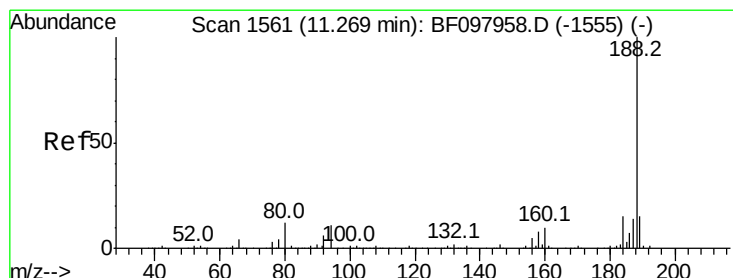
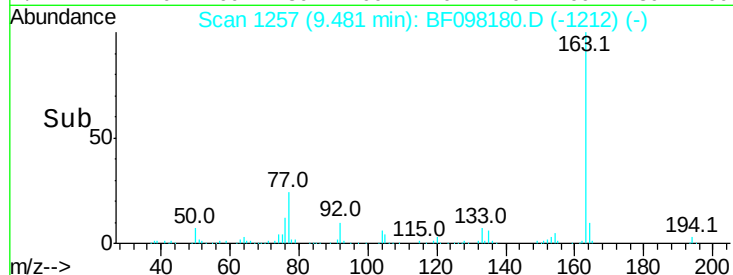
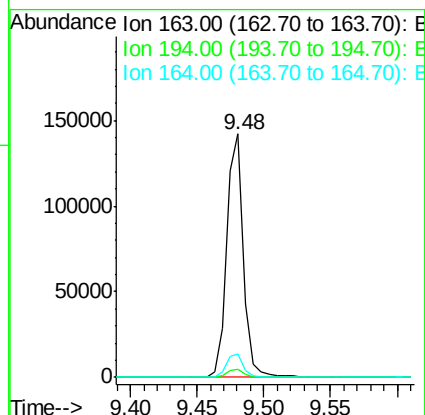
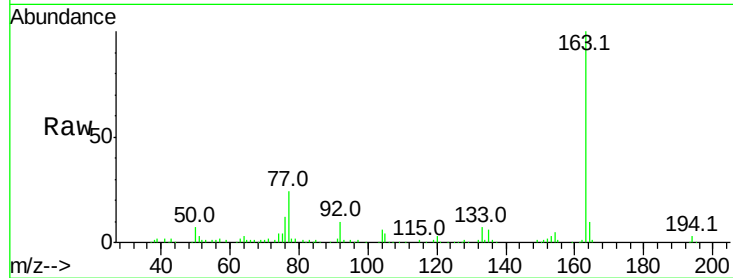




#49
Dimethylphthalate
Concen: 7.774 ng
RT: 9.48 min Scan# 1257
Delta R.T. -0.04 min
Lab File: BF098180.D
Acq: 31 Aug 2017 2:37

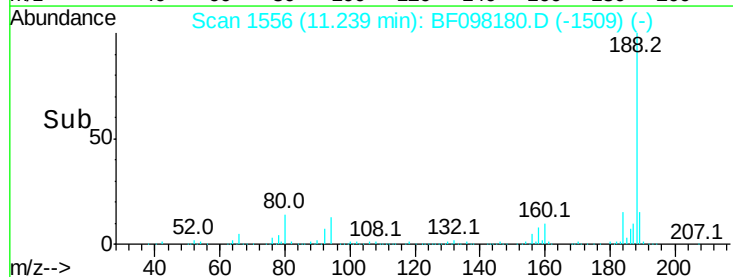
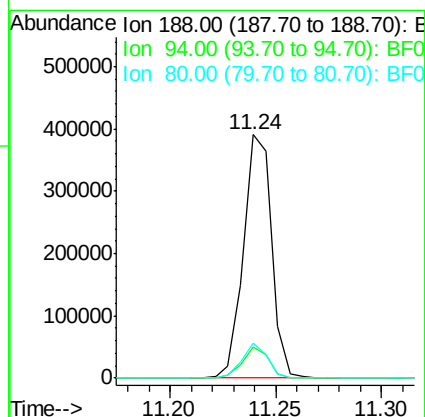
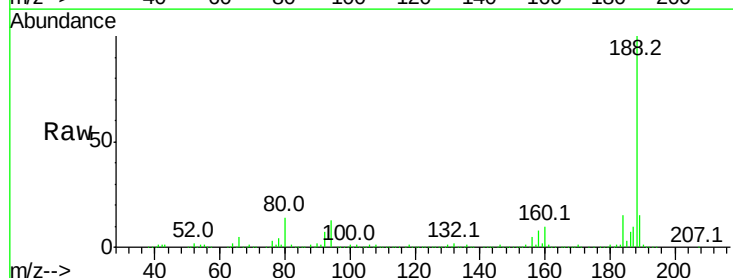
Instrument :
BNA_F
ClientSampleId :

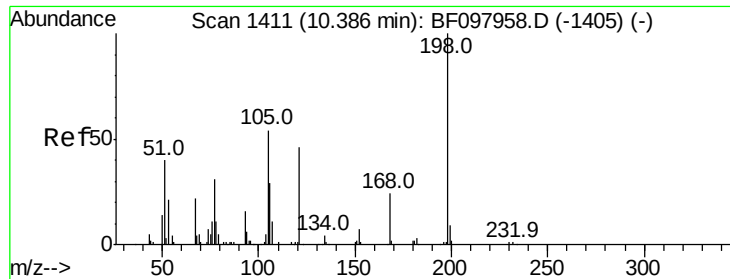
Tot Ion	Ratio	Lower	Upper
163	100		
194	3.3	2.6	4.0
164	9.8	8.4	12.6



#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.24 min Scan# 1556
Delta R.T. -0.02 min
Lab File: BF098180.D
Acq: 31 Aug 2017 2:37

Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.9	9.4	14.2
80	14.2	10.2	15.2





#64

4,6-Dinitro-2-methylphenol

Concen: 8.403 ng

RT: 10.55 min Scan# 1438

Delta R.T. 0.16 min

Lab File: BF098180.D

Acq: 31 Aug 2017 2:37

Instrument :

BNA_F

ClientSampled :

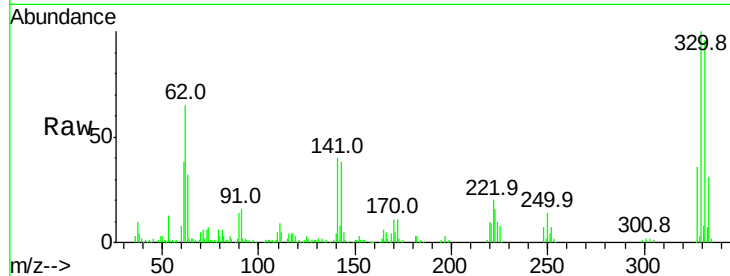
Tot Ion:198 Resp: 168

Ion Ratio Lower Upper

198 100

51 232.8 53.2 93.2#

105 246.6 45.8 85.8#

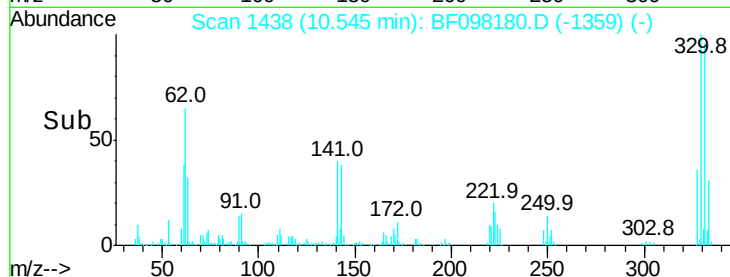


Abundance Ion 198.00 (197.70 to 198.70): E

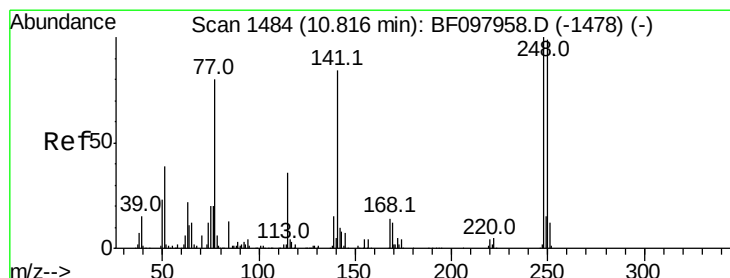
Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E

Time-->



Time-->



#66

4-Bromophenyl-phenylether

Concen: 2.131 ng

RT: 10.55 min Scan# 1438

Delta R.T. -0.27 min

Lab File: BF098180.D

Acq: 31 Aug 2017 2:37

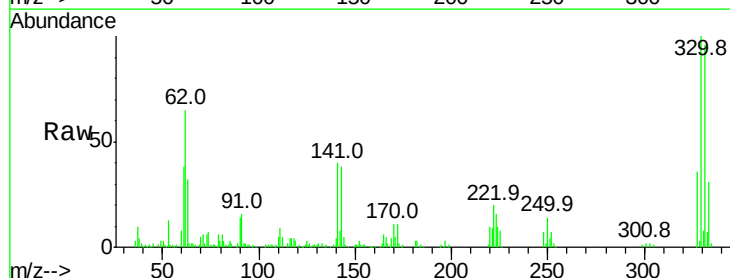
Tgt Ion:248 Resp: 7965

Ion Ratio Lower Upper

248 100

250 209.1 76.8 115.2#

141 595.1 68.6 103.0#

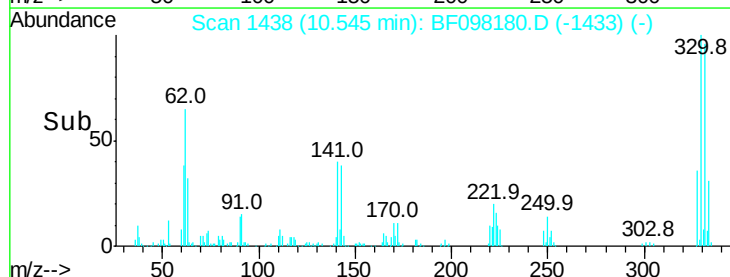


Abundance Ion 248.00 (247.70 to 248.70): E

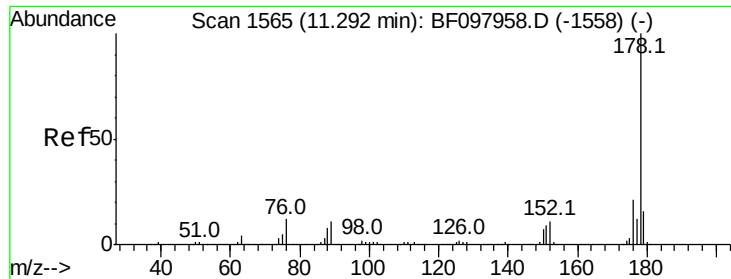
Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

Time-->



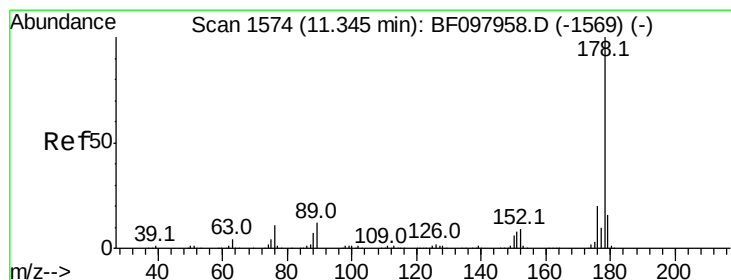
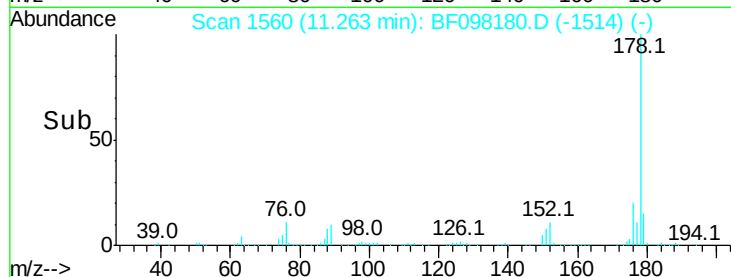
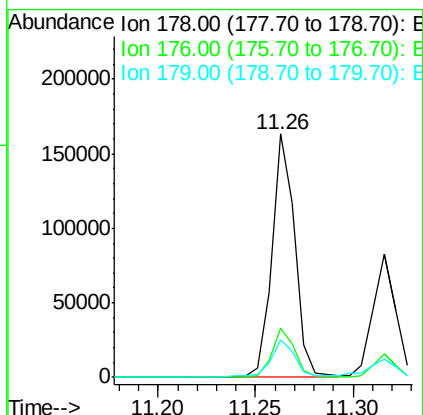
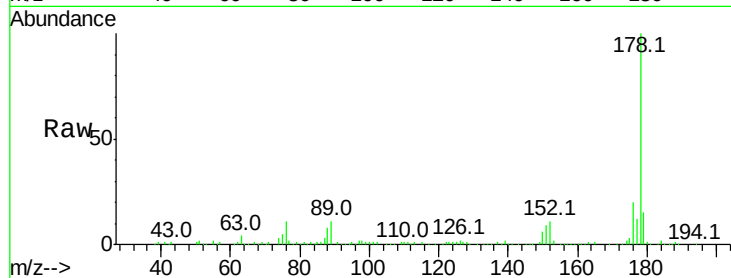
Time-->



#70
Phenanthrene
Concen: 6.859 ng
RT: 11.26 min Scan# 1560
Delta R.T. -0.03 min
Lab File: BF098180.D
Acq: 31 Aug 2017 2:37

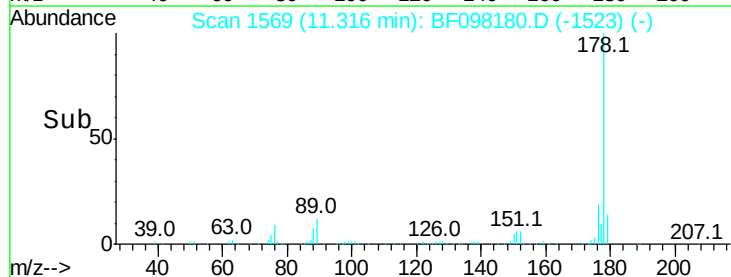
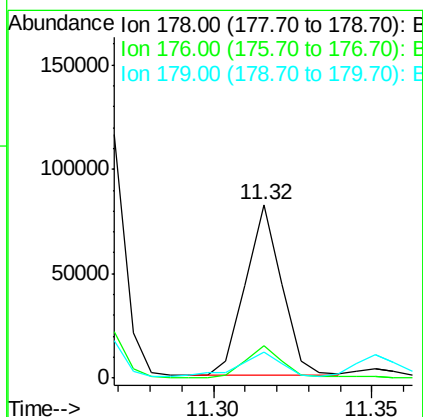
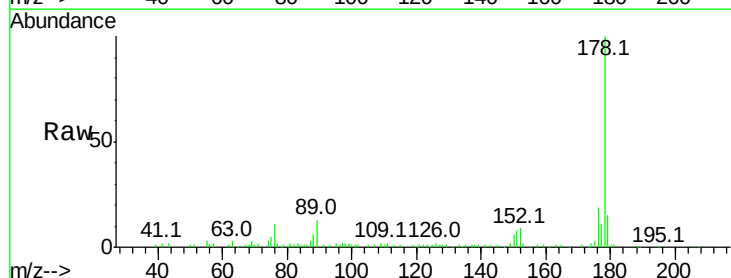
Instrument :
BNA_F
ClientSampleId :

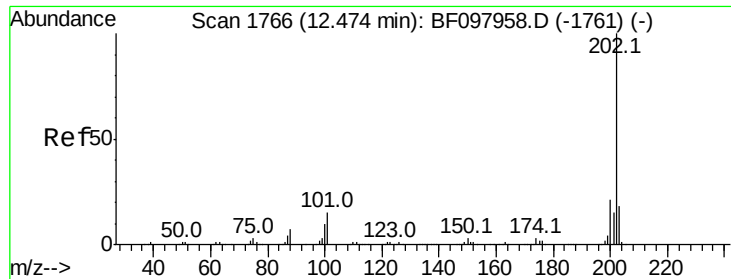
Tot Ion:178 Resp: 131521
Ion Ratio Lower Upper
178 100
176 20.1 16.2 24.4
179 15.4 12.6 19.0



#71
Anthracene
Concen: 3.339 ng
RT: 11.32 min Scan# 1569
Delta R.T. -0.03 min
Lab File: BF098180.D
Acq: 31 Aug 2017 2:37

Tgt Ion:178 Resp: 64943
Ion Ratio Lower Upper
178 100
176 18.7 15.8 23.8
179 14.9 12.7 19.1





#74

Fluoranthene

Concen: 16.573 ng

RT: 12.45 min Scan# 1762

Delta R.T. -0.02 min

Lab File: BF098180.D

Acq: 31 Aug 2017 2:37

Instrument :

BNA_F

ClientSampleId :

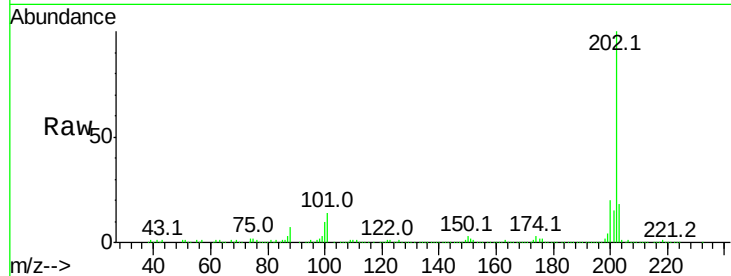
Tot Ion:202 Resp: 331708

Ion Ratio Lower Upper

202 100

101 13.8 0.0 33.2

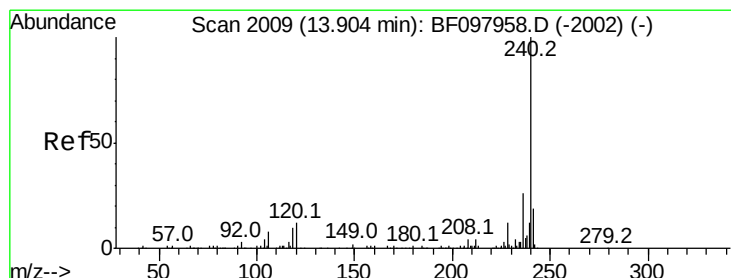
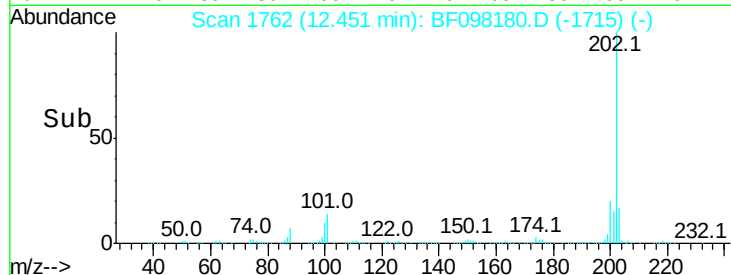
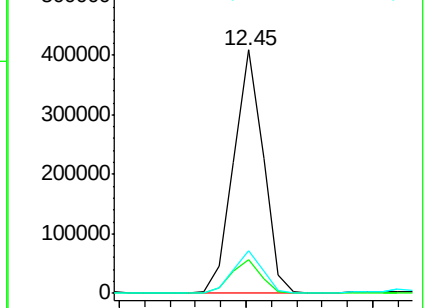
203 17.6 0.0 38.1



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: 20.000 ng

RT: 13.87 min Scan# 2004

Delta R.T. -0.02 min

Lab File: BF098180.D

Acq: 31 Aug 2017 2:37

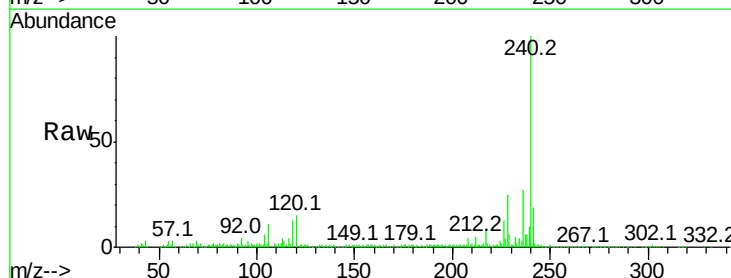
Tgt Ion:240 Resp: 265368

Ion Ratio Lower Upper

240 100

120 15.3 5.8 8.8#

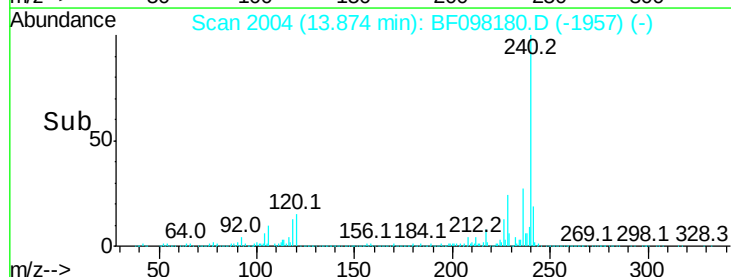
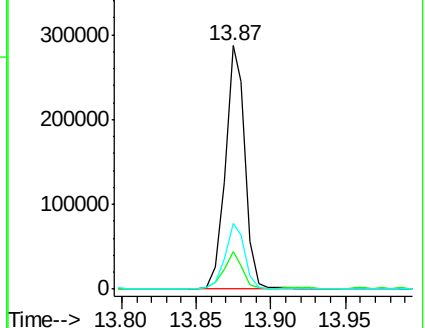
236 26.8 20.5 30.7

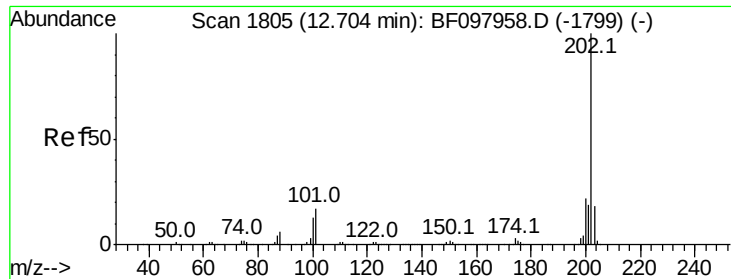


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

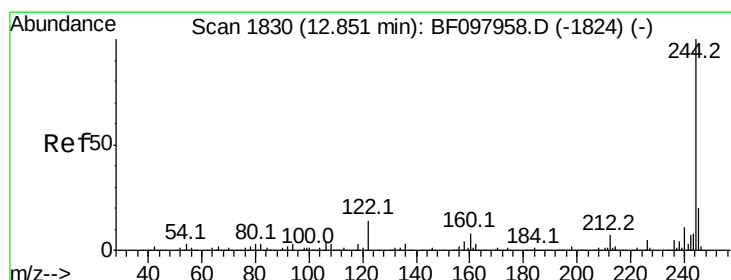
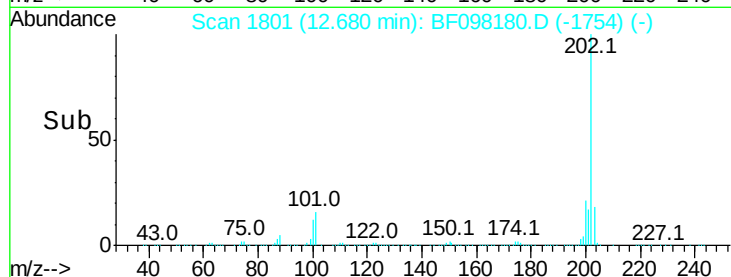
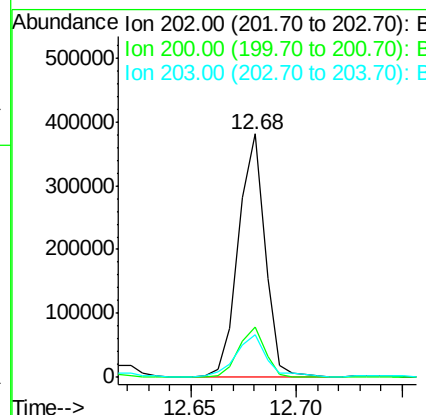
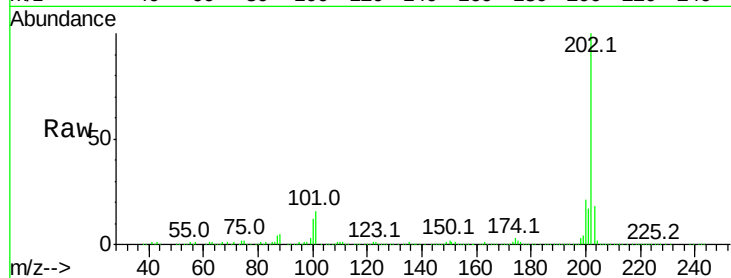




#77
Pvrene
Concen: 15.159 ng
RT: 12.68 min Scan# 1801
Delta R.T. -0.02 min
Lab File: BF098180.D
Acq: 31 Aug 2017 2:37

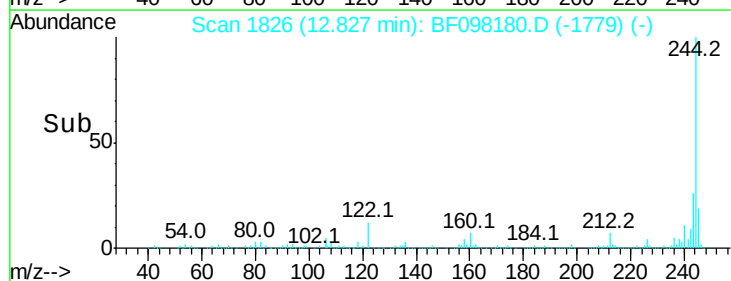
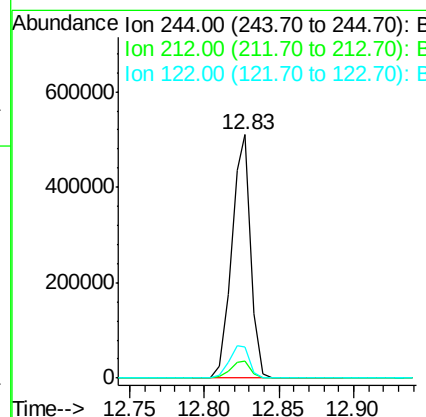
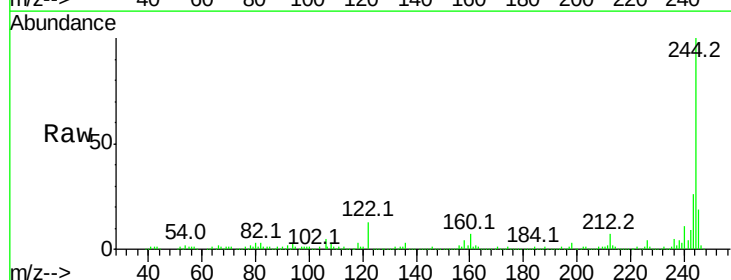
Instrument :
BNA_F
ClientSampled :

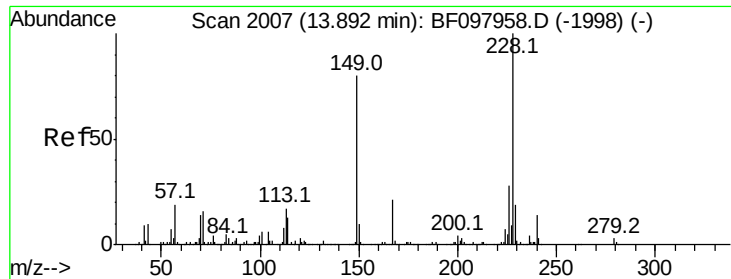
Tot Ion:202 Resp: 329001
Ion Ratio Lower Upper
202 100
200 20.8 17.6 26.4
203 17.8 14.4 21.6



#78
Terphenyl-d14
Concen: 36.032 ng
RT: 12.83 min Scan# 1826
Delta R.T. -0.02 min
Lab File: BF098180.D
Acq: 31 Aug 2017 2:37

Tgt Ion:244 Resp: 458525
Ion Ratio Lower Upper
244 100
212 7.3 6.0 9.0
122 12.5 10.3 15.5

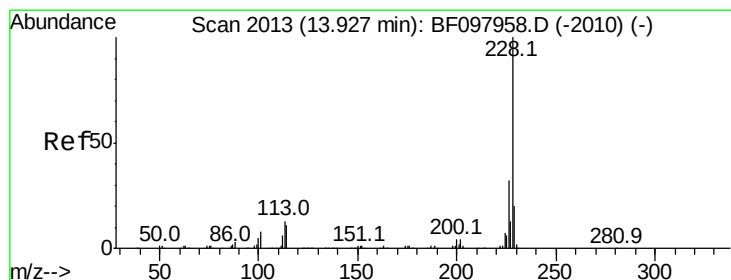
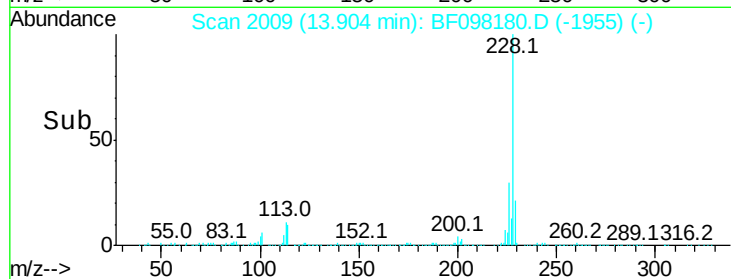
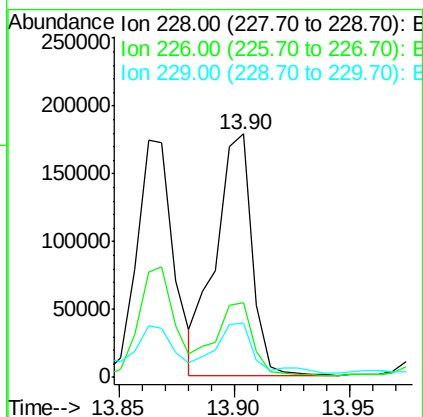
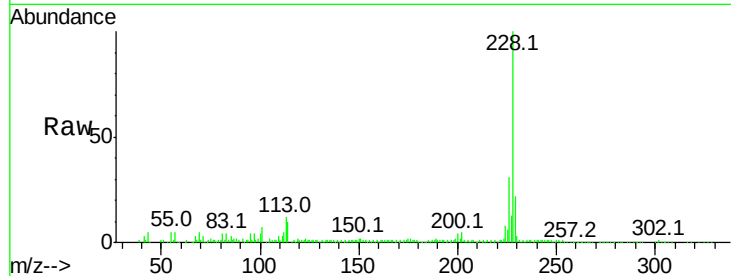




#80
Benzo(a)anthracene
Concen: 12.186 ng
RT: 13.90 min Scan# 2009
Delta R.T. 0.02 min
Lab File: BF098180.D
Acq: 31 Aug 2017 2:37

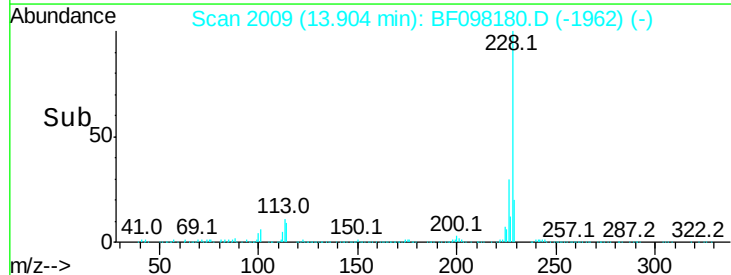
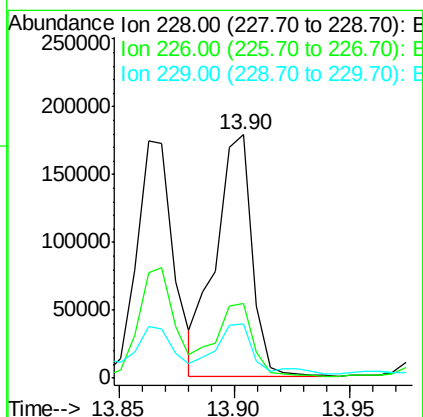
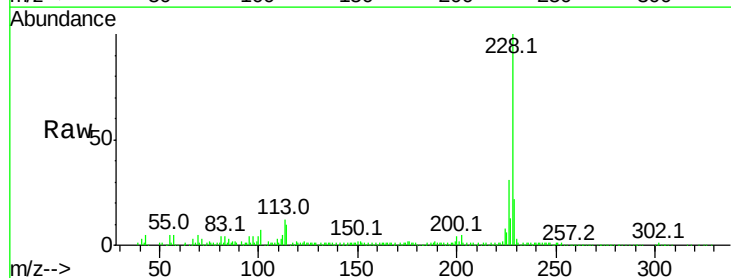
Instrument :
BNA_F
ClientSampled :

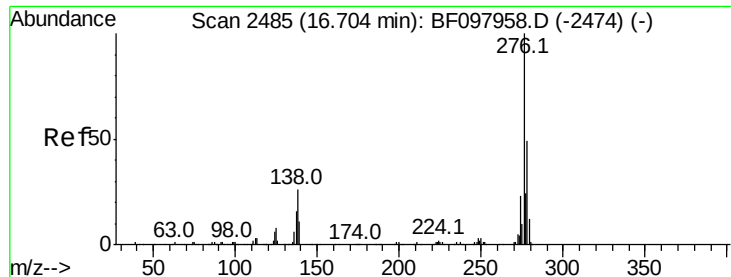
Tot Ion	Ratio	Lower	Upper
228	100		
226	30.9	22.6	33.8
229	22.3	16.3	24.5



#82
Chrysene
Concen: 12.250 ng
RT: 13.90 min Scan# 2009
Delta R.T. -0.02 min
Lab File: BF098180.D
Acq: 31 Aug 2017 2:37

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.9	37.3
229	22.3	15.8	23.6





#85

Indeno(1,2,3-cd)pyrene

Concen: 10.704 ng

RT: 16.67 min Scan# 2479

Delta R.T. -0.02 min

Lab File: BF098180.D

Acq: 31 Aug 2017 2:37

Instrument :

BNA_F

ClientSampleId :

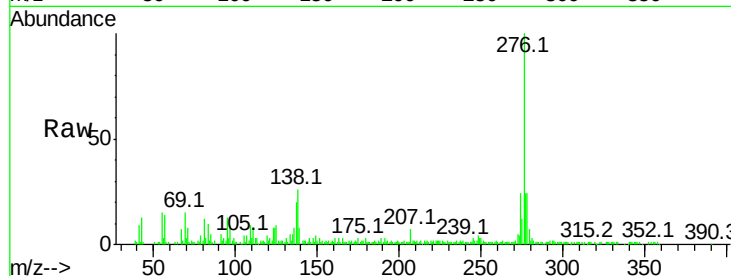
Tot Ion:276 Resp: 124581

Ion Ratio Lower Upper

276 100

138 24.6 27.8 41.6#

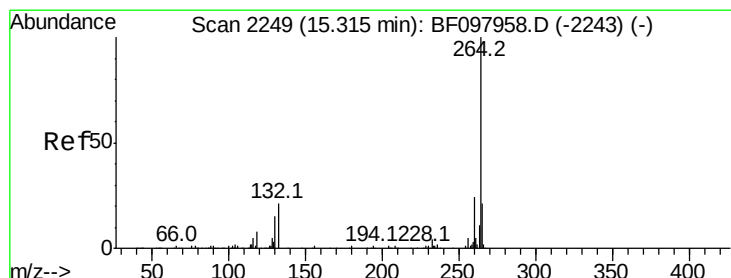
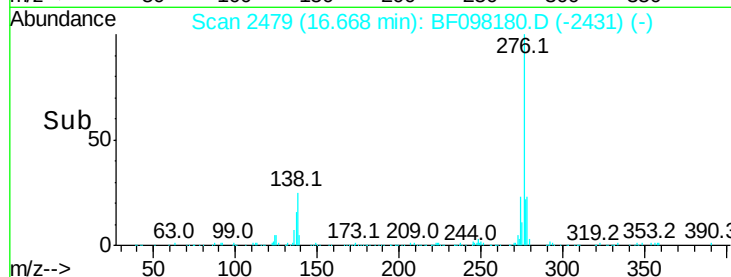
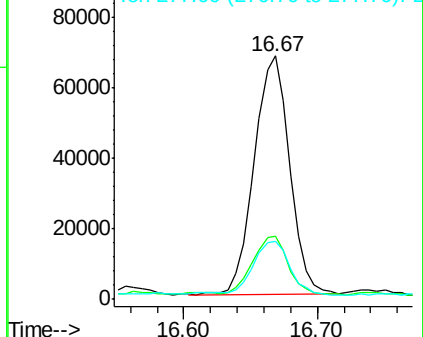
277 25.1 20.2 30.4



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.29 min Scan# 2245

Delta R.T. -0.02 min

Lab File: BF098180.D

Acq: 31 Aug 2017 2:37

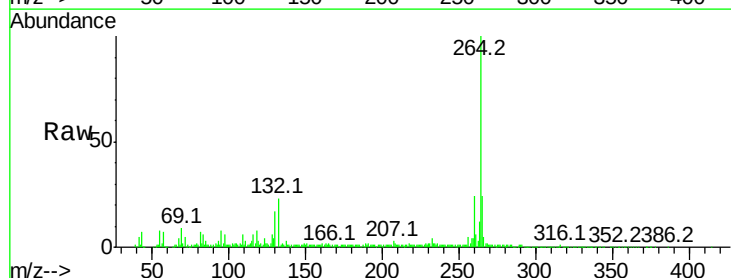
Tgt Ion:264 Resp: 198777

Ion Ratio Lower Upper

264 100

260 24.4 19.5 29.3

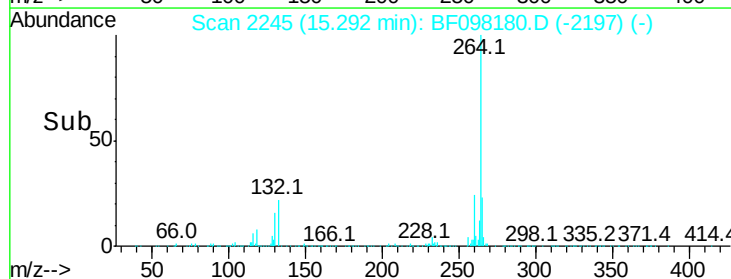
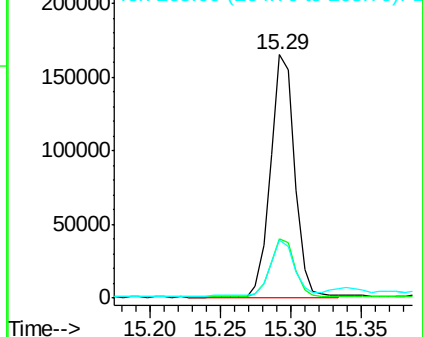
265 23.8 17.2 25.8

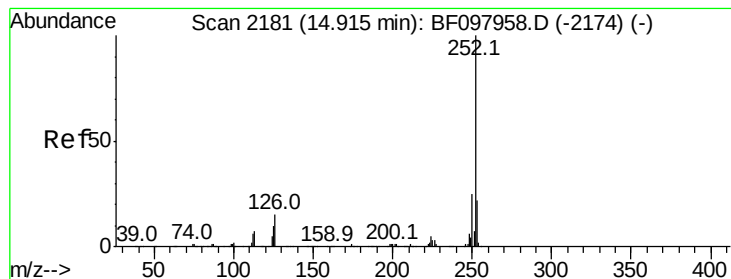


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 29.837 ng

RT: 14.89 min Scan# 2177

Delta R.T. -0.02 min

Lab File: BF098180.D

Acq: 31 Aug 2017 2:37

Instrument :

BNA_F

ClientSampleId :

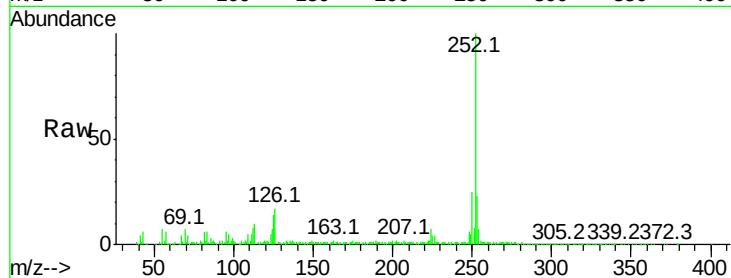
Tot Ion:252 Resp: 373839

Ion Ratio Lower Upper

252 100

253 23.0 18.1 27.1

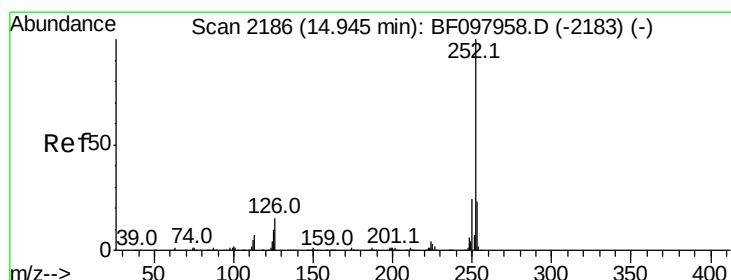
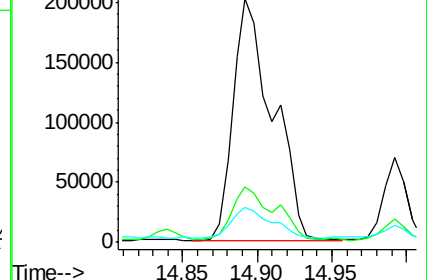
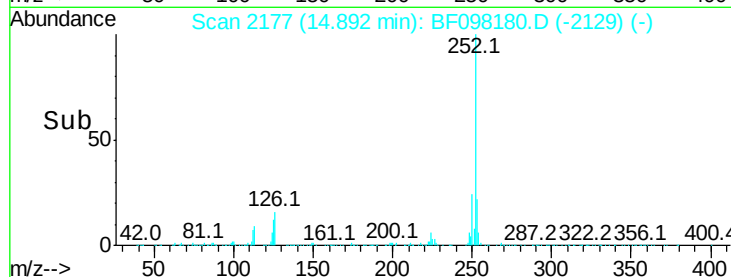
125 14.3 9.8 14.8



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: 31.758 ng

RT: 14.89 min Scan# 2177

Delta R.T. -0.05 min

Lab File: BF098180.D

Acq: 31 Aug 2017 2:37

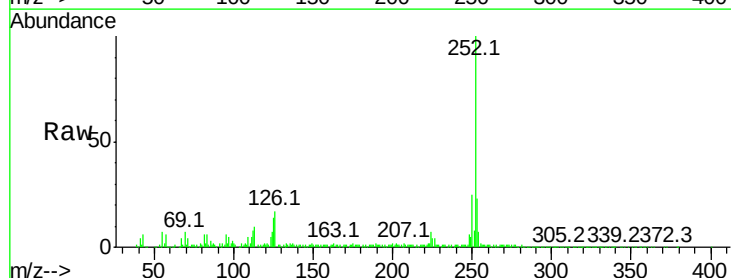
Tgt Ion:252 Resp: 373839

Ion Ratio Lower Upper

252 100

253 23.0 18.4 27.6

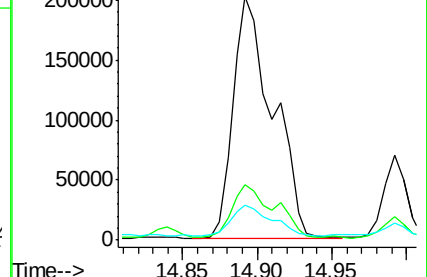
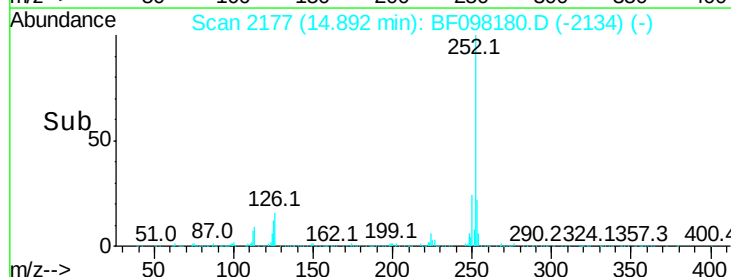
125 14.3 13.1 19.7

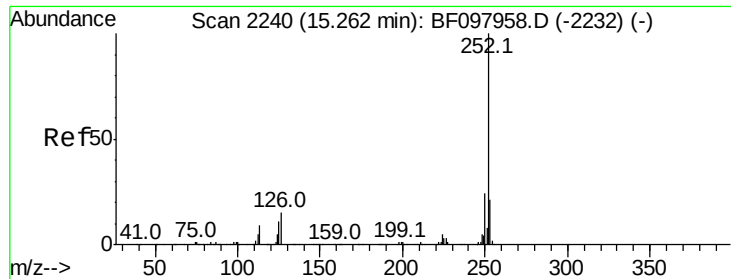


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 17.674 ng

RT: 15.24 min Scan# 2236

Delta R.T. -0.02 min

Lab File: BF098180.D

Acq: 31 Aug 2017 2:37

Instrument :

BNA_F

ClientSampleId :

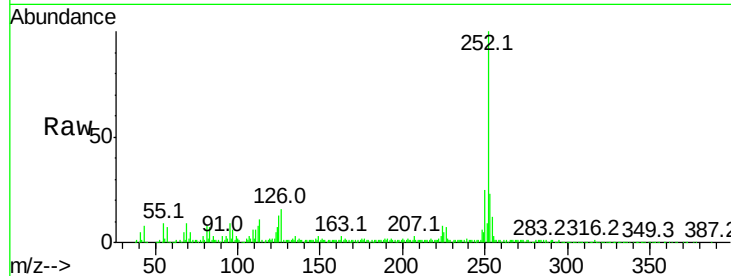
Tot Ion:252 Resp: 196045

Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

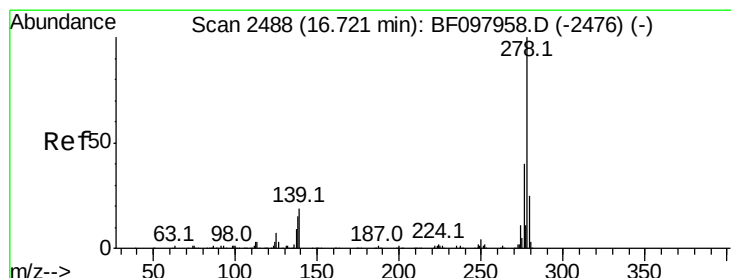
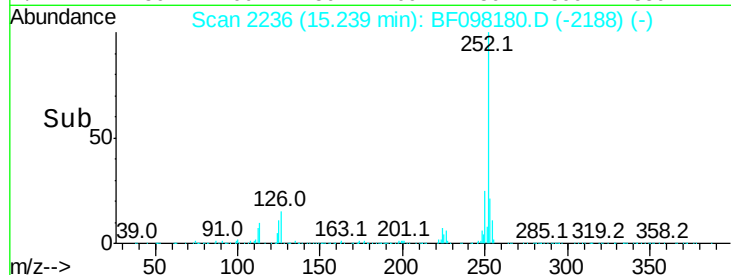
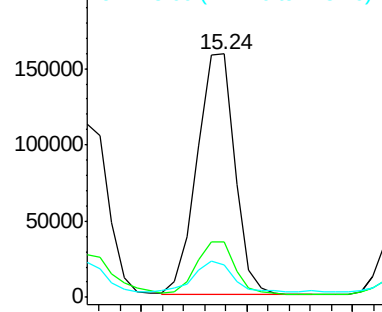
125 13.4 11.0 16.4



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: 3.388 ng

RT: 16.67 min Scan# 2479

Delta R.T. -0.04 min

Lab File: BF098180.D

Acq: 31 Aug 2017 2:37

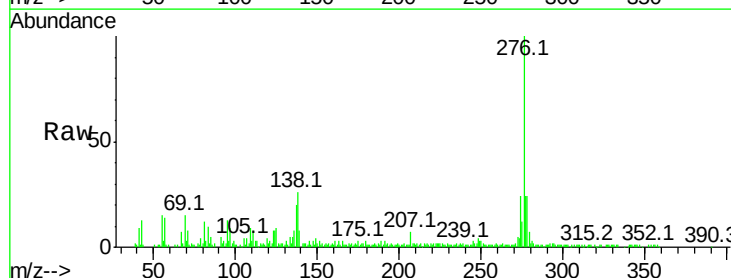
Tgt Ion:278 Resp: 30591

Ion Ratio Lower Upper

278 100

139 32.6 16.6 24.8#

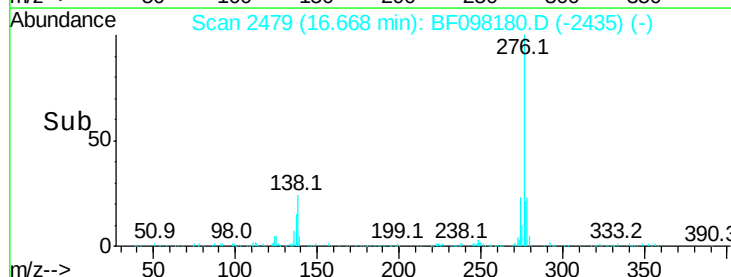
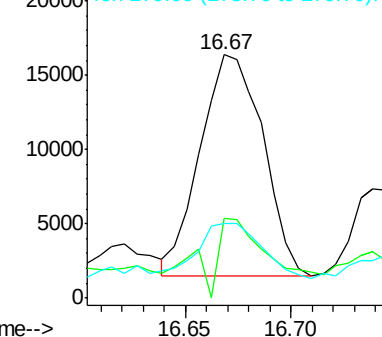
279 30.8 19.3 28.9#

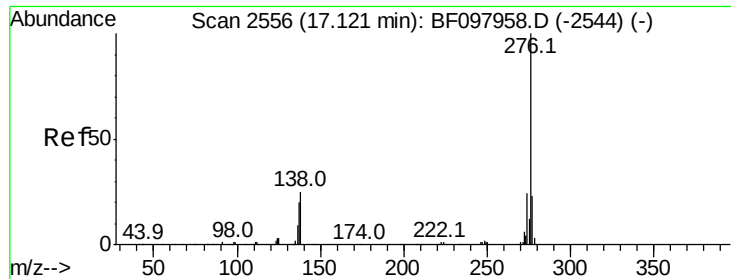


Abundance Ion 278.00 (277.70 to 278.70): E

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: 12.872 ng
 RT: 17.08 min Scan# 2549
 Delta R.T. -0.03 min
 Lab File: BF098180.D
 Acq: 31 Aug 2017 2:37

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.3	18.6	28.0
138	27.7	25.4	38.0

