

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100217\
 Data File : BF099014.D
 Acq On : 2 Oct 2017 21:56
 Operator : SJ/JU
 Sample : I5531-03 2X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

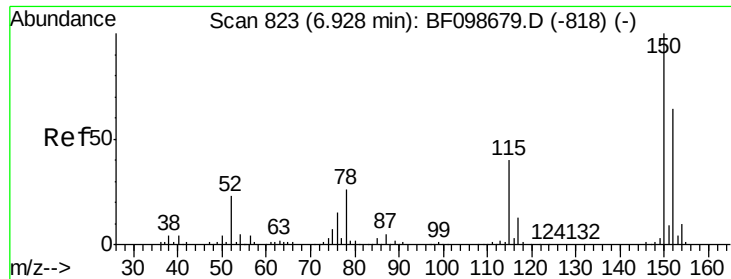
Quant Time: Oct 03 01:03:15 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 23 13:50:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	126676	20.00	ng	-0.02
21) Naphthalene-d8	8.19	136	472151	20.00	ng	-0.02
38) Acenaphthene-d10	9.95	164	175960	20.00	ng	-0.02
63) Phenanthrene-d10	11.43	188	272373	20.00	ng	-0.01
75) Chrysene-d12	14.07	240	254766	20.00	ng	-0.01
86) Perylene-d12	15.57	264	250683	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.52	112	326286	41.00	ng	-0.02
7) Phenol-d6	6.53	99	528551	53.84	ng	-0.02
23) Nitrobenzene-d5	7.46	82	330679	44.91	ng	-0.02
41) 2,4,6-Tribromophenol	10.73	330	18414	12.79	ng	-0.02
44) 2-Fluorobiphenyl	9.26	172	569057	53.99	ng	-0.02
78) Terphenyl-d14	13.02	244	413005	36.87	ng	-0.02

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.46	70	43271	6.90	ng	# 75
25) Isophorone	7.46	82	327938	21.54	ng	# 64
48) Acenaphthylene	9.80	152	36165	2.08	ng	97
49) Dimethylphthalate	9.65	163	93513	7.04	ng	98
55) 4-Nitrophenol	10.15	139	6535	2.29	ng	# 11
56) 2,4-Dinitrotoluene	9.94	165	23223	6.19	ng	# 23
70) Phenanthrene	11.46	178	300169	20.59	ng	97
71) Anthracene	11.50	178	72487	4.86	ng	97
72) Carbazole	11.66	167	29389	2.01	ng	95
74) Fluoranthene	12.64	202	477566	32.35	ng	99
77) Pyrene	12.87	202	481659	24.79	ng	100
80) Benzo(a)anthracene	14.06	228	257583	16.70	ng	97
82) Chrysene	14.10	228	237624	16.18	ng	96
83) Bis(2-ethylhexyl)phthalate	14.04	149	58905	4.69	ng	98
85) Indeno(1,2,3-cd)pyrene	17.07	276	124282	10.58	ng	97
87) Benzo(b)fluoranthene	15.13	252	442768	28.73	ng	# 92
88) Benzo(k)fluoranthene	15.13	252	442768	29.08	ng	# 95
89) Benzo(a)pyrene	15.50	252	241377	17.06	ng	# 94
90) Dibenzo(a,h)anthracene	17.08	278	29119	2.57	ng	# 81
91) Benzo(a,h,i)perylene	17.53	276	120481	10.76	ng	94

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

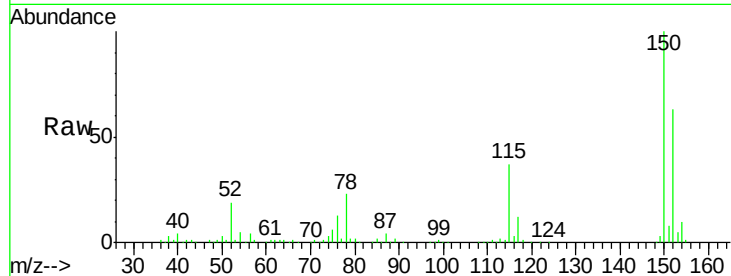


#1

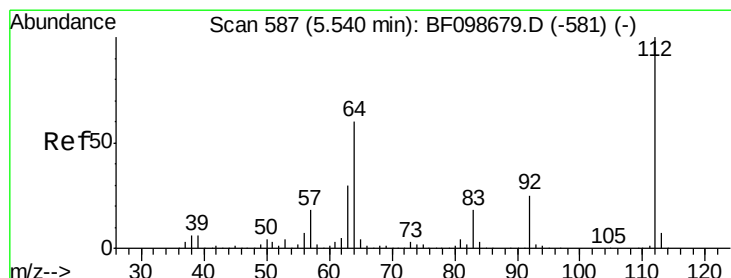
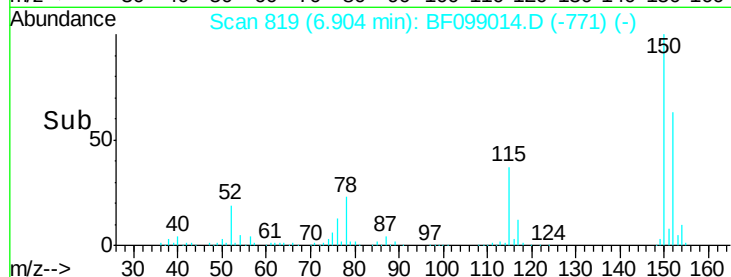
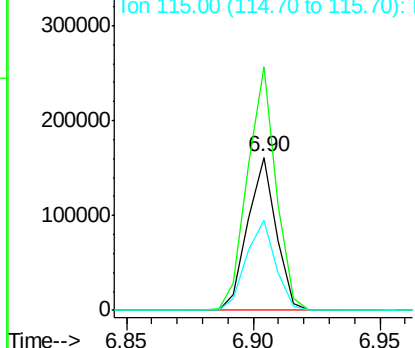
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.90 min Scan# 819
Delta R.T. -0.02 min
Lab File: BF099014.D
Acq: 2 Oct 2017 21:56

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 126676
Ion Ratio Lower Upper
152 100
150 158.9 124.6 186.8
115 58.6 50.1 75.1



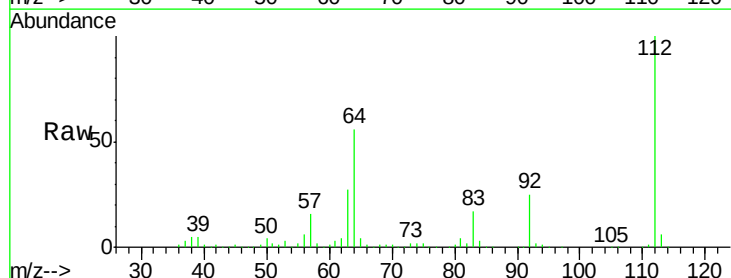
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



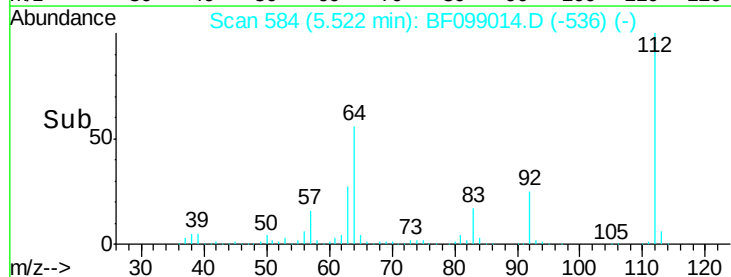
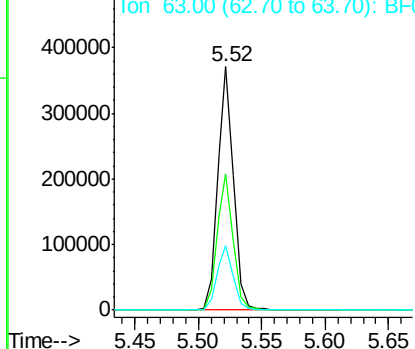
#5

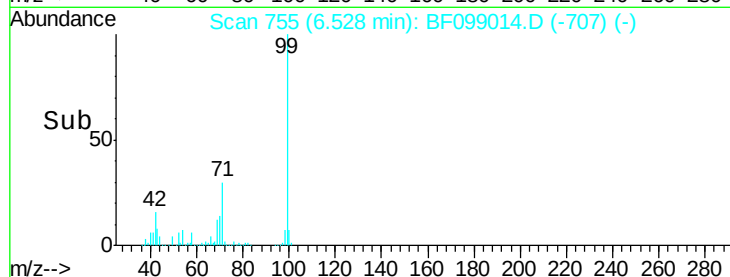
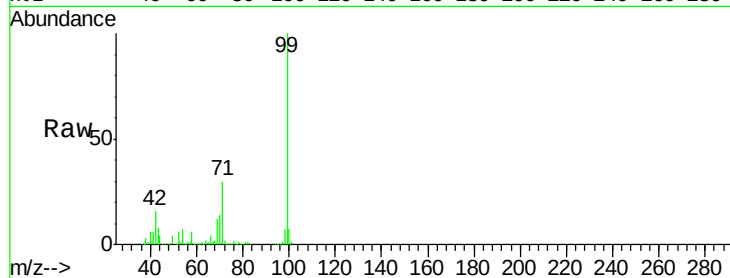
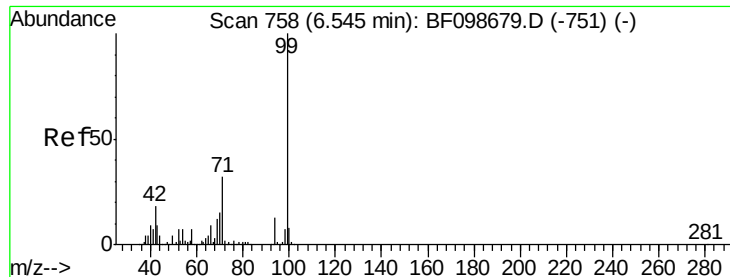
2-Fluorophenol
Concen: 41.00 ng
RT: 5.52 min Scan# 584
Delta R.T. -0.02 min
Lab File: BF099014.D
Acq: 2 Oct 2017 21:56

Tgt Ion:112 Resp: 326286
Ion Ratio Lower Upper
112 100
64 56.1 47.9 71.9
63 26.7 23.7 35.5



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: 53.84 ng

RT: 6.53 min Scan# 755

Delta R.T. -0.02 min

Lab File: BF099014.D

Acq: 2 Oct 2017 21:56

Instrument :

BNA_F

ClientSampleId :

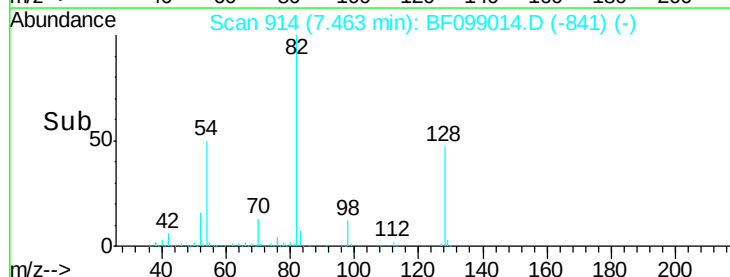
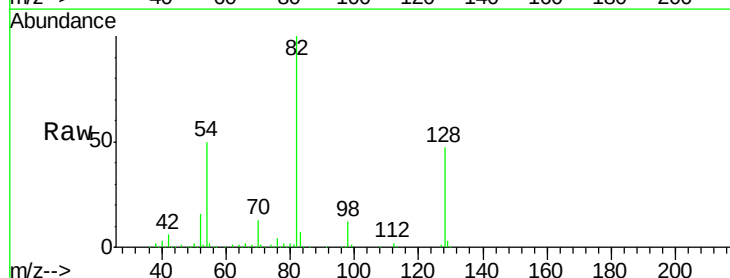
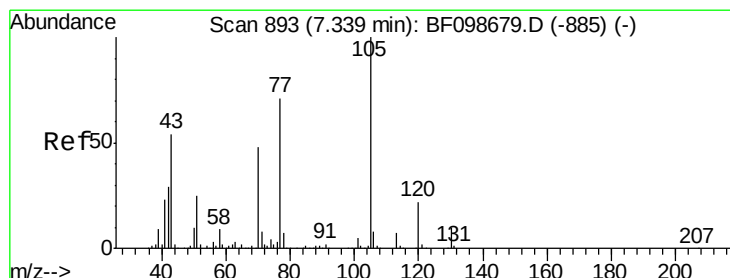
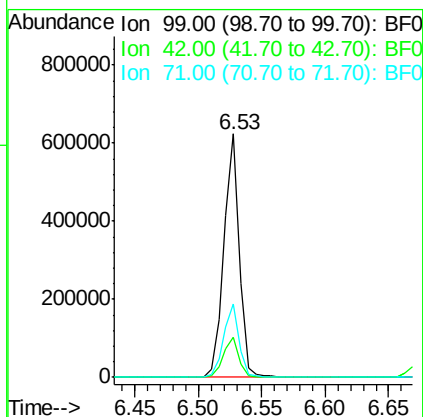
Tot Ion: 99 Resp: 528551

Ion Ratio Lower Upper

99 100

42 16.2 14.5 21.7

71 30.3 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 6.90 ng

RT: 7.46 min Scan# 914

Delta R.T. 0.13 min

Lab File: BF099014.D

Acq: 2 Oct 2017 21:56

Tgt Ion: 70 Resp: 43271

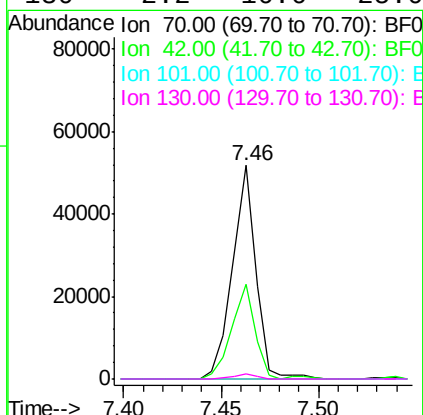
Ion Ratio Lower Upper

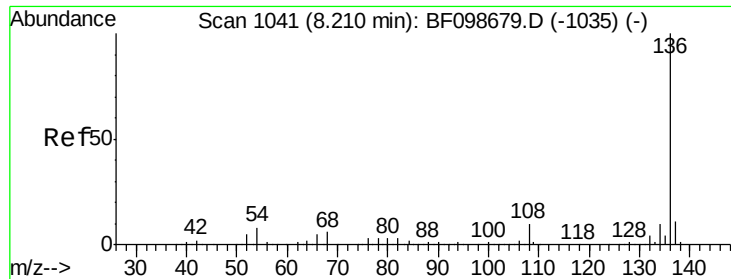
70 100

42 44.3 47.5 71.3#

101 0.0 7.4 11.2#

130 2.2 16.6 25.0#

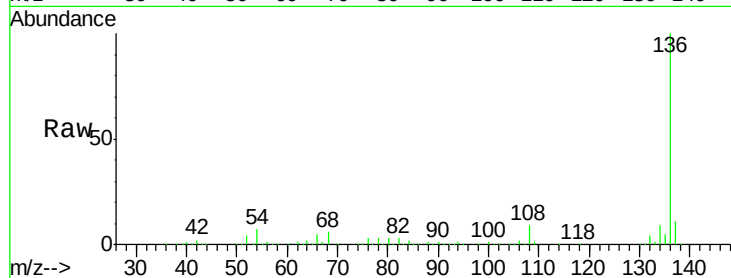




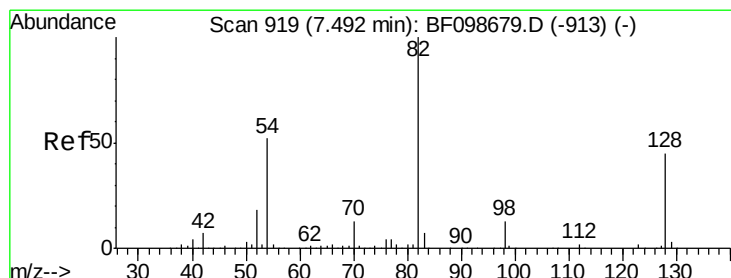
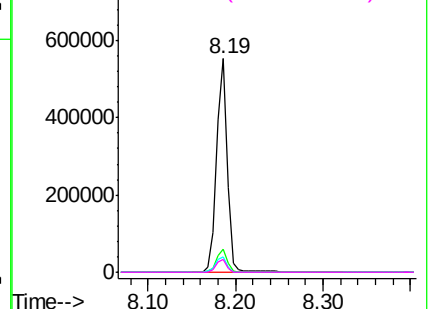
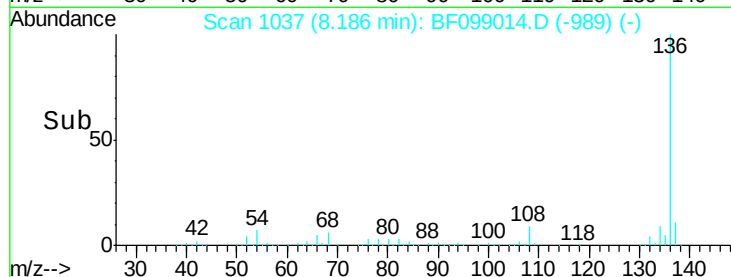
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.19 min Scan# 1037
Delta R.T. -0.02 min
Lab File: BF099014.D
Acq: 2 Oct 2017 21:56

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	472151
Ion Ratio	Lower	Upper
136	100	
137	10.9	8.9 13.3
54	7.5	6.6 9.8
68	5.8	5.0 7.4

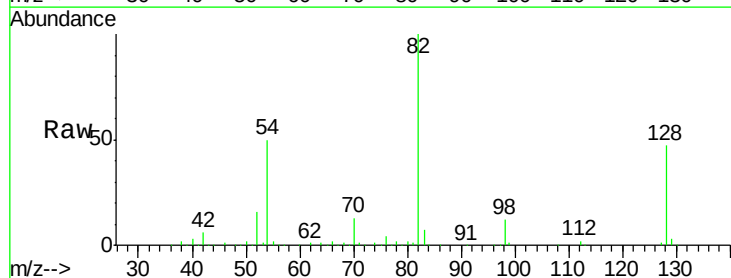


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

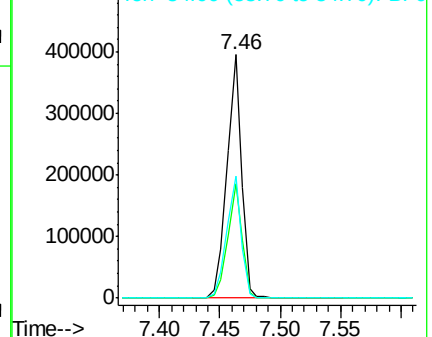
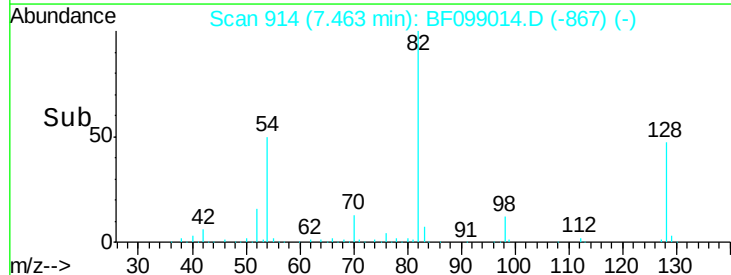


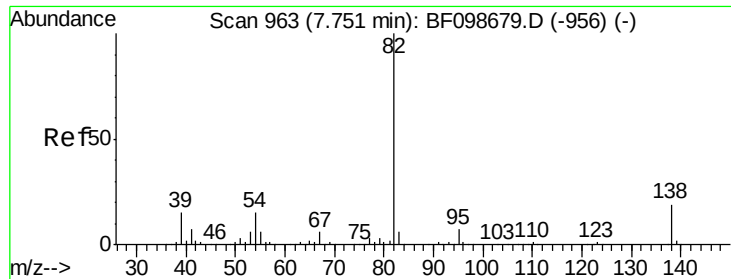
#23
Nitrobenzene-d5
Concen: 44.91 ng
RT: 7.46 min Scan# 914
Delta R.T. -0.02 min
Lab File: BF099014.D
Acq: 2 Oct 2017 21:56

Tgt Ion: 82	Resp:	330679
Ion Ratio	Lower	Upper
82	100	
128	47.0	36.1 54.1
54	50.3	41.4 62.2



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 21.54 ng

RT: 7.46 min Scan# 914

Delta R.T. -0.28 min

Lab File: BF099014.D

Acq: 2 Oct 2017 21:56

Instrument :

BNA_F

ClientSampleId :

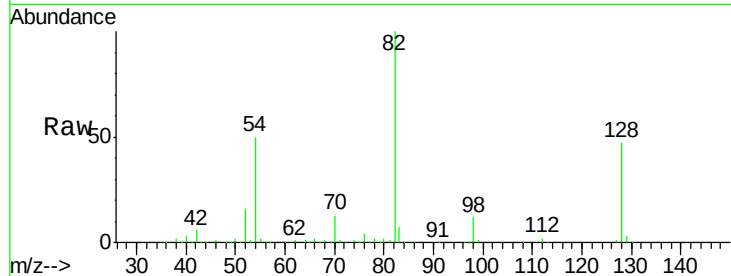
Tot Ion: 82 Resp: 327938

Ion Ratio Lower Upper

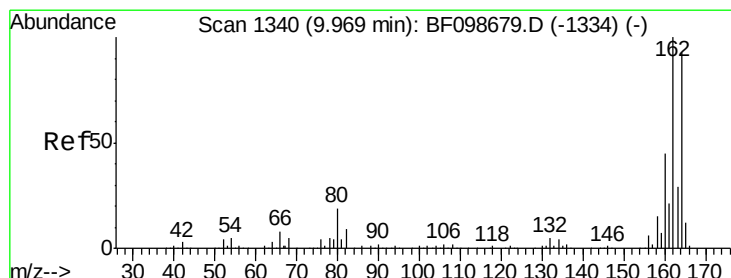
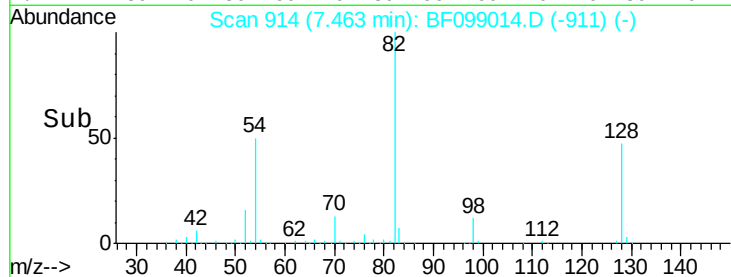
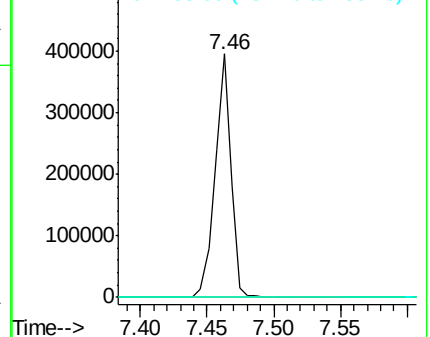
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



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): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.95 min Scan# 1336

Delta R.T. -0.02 min

Lab File: BF099014.D

Acq: 2 Oct 2017 21:56

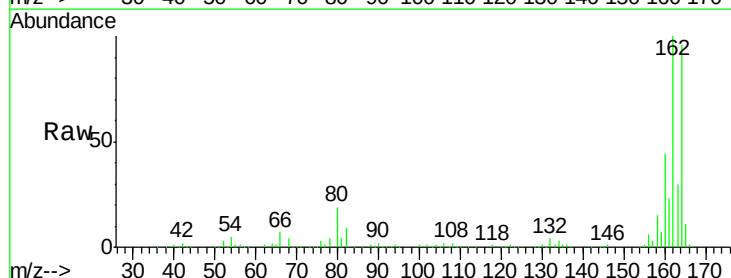
Tgt Ion:164 Resp: 175960

Ion Ratio Lower Upper

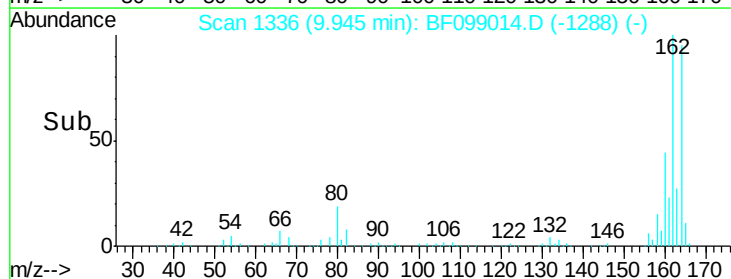
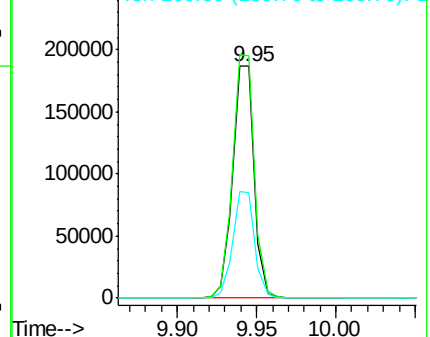
164 100

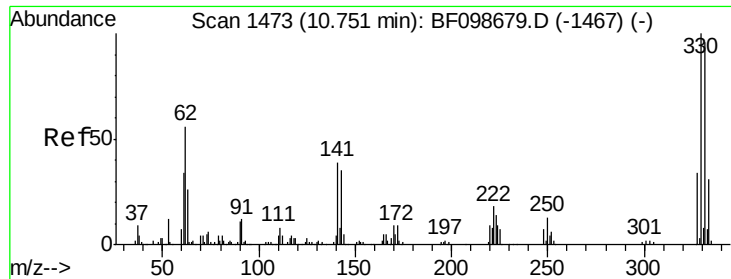
162 104.5 86.1 129.1

160 45.5 38.3 57.5



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: 12.79 ng

RT: 10.73 min Scan# 1469

Delta R.T. -0.02 min

Lab File: BF099014.D

Acq: 2 Oct 2017 21:56

Instrument :

BNA_F

ClientSampleId :

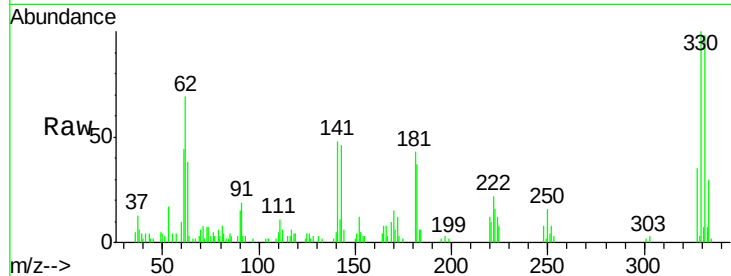
Tot Ion:330 Resp: 18414

Ion Ratio Lower Upper

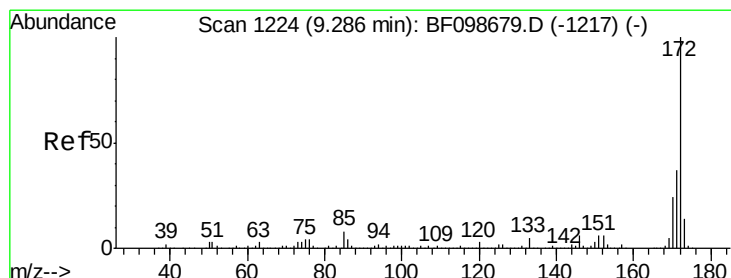
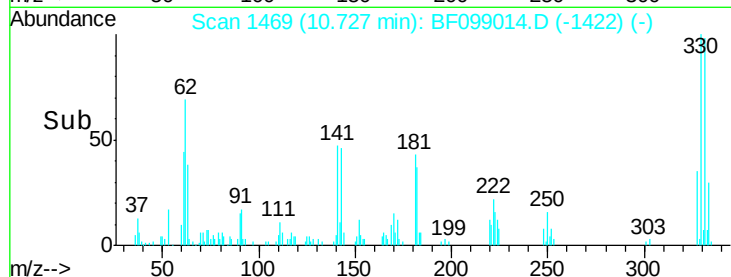
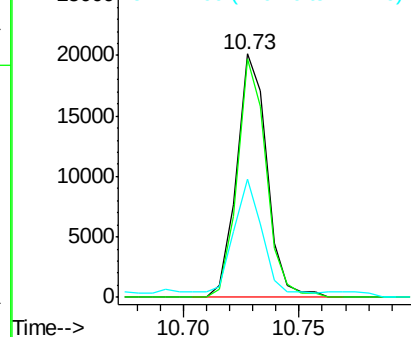
330 100

332 93.8 77.0 115.6

141 43.0 29.9 44.9



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: 53.99 ng

RT: 9.26 min Scan# 1219

Delta R.T. -0.02 min

Lab File: BF099014.D

Acq: 2 Oct 2017 21:56

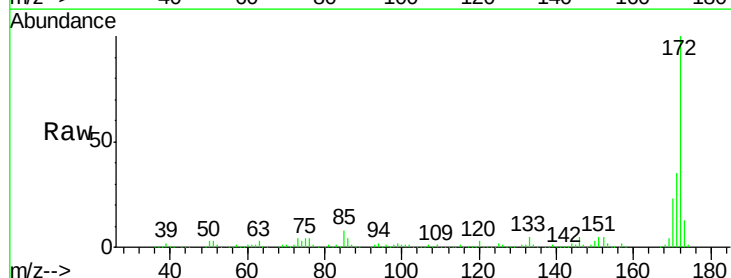
Tgt Ion:172 Resp: 569057

Ion Ratio Lower Upper

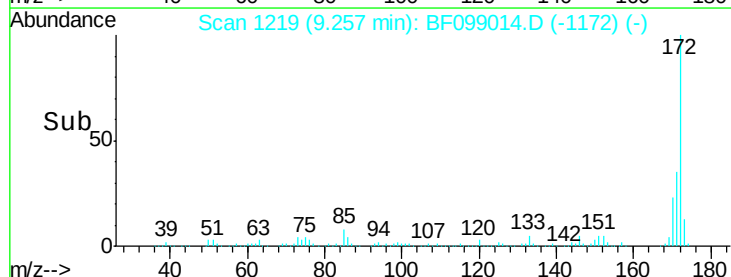
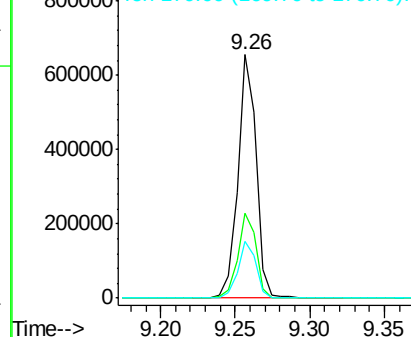
172 100

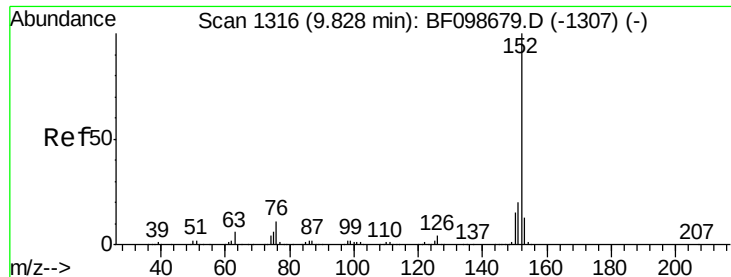
171 35.1 29.7 44.5

170 23.5 19.6 29.4



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





#48

Acenaphthylene

Concen: 2.08 ng

RT: 9.80 min Scan# 1312

Delta R.T. -0.02 min

Lab File: BF099014.D

Acq: 2 Oct 2017 21:56

Instrument :

BNA_F

ClientSampleId :

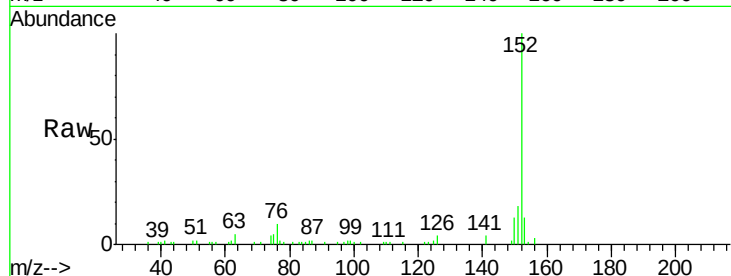
Tot Ion:152 Resp: 36165

Ion Ratio Lower Upper

152 100

151 17.9 16.3 24.5

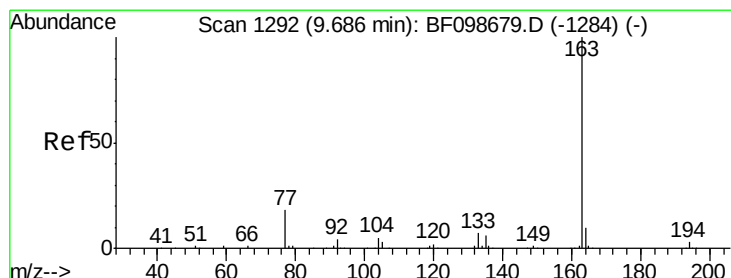
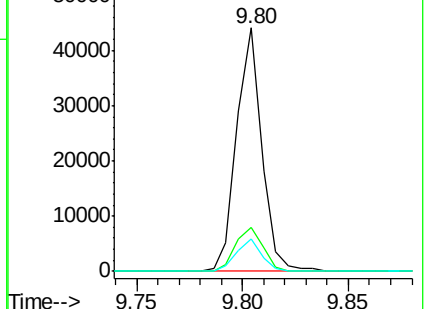
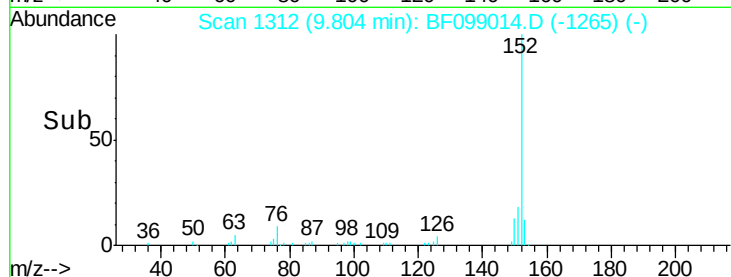
153 13.4 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 7.04 ng

RT: 9.65 min Scan# 1286

Delta R.T. -0.03 min

Lab File: BF099014.D

Acq: 2 Oct 2017 21:56

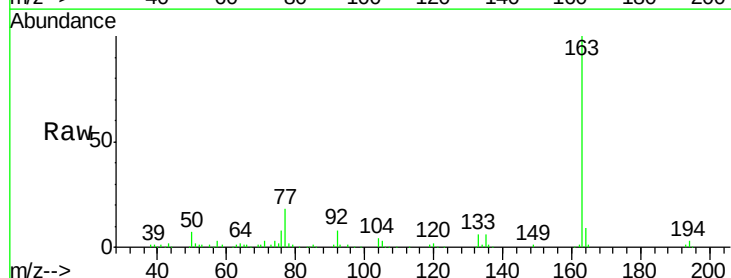
Tgt Ion:163 Resp: 93513

Ion Ratio Lower Upper

163 100

194 3.4 2.7 4.1

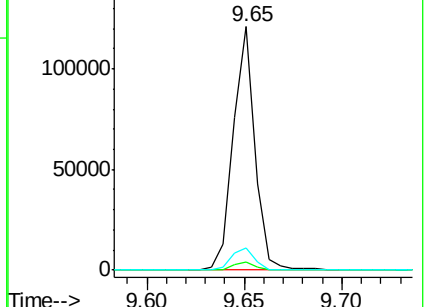
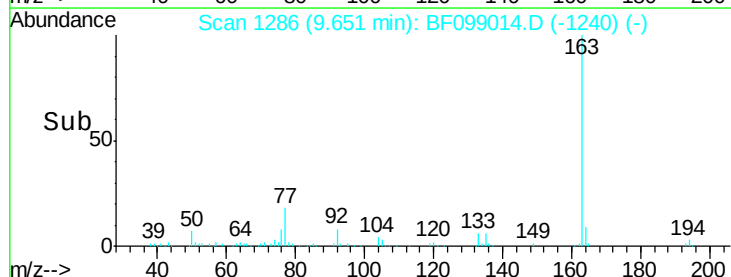
164 9.3 8.2 12.2

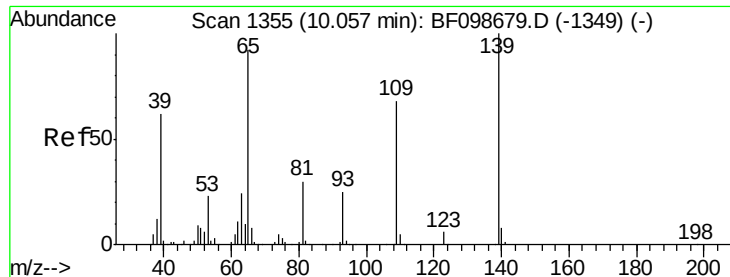


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

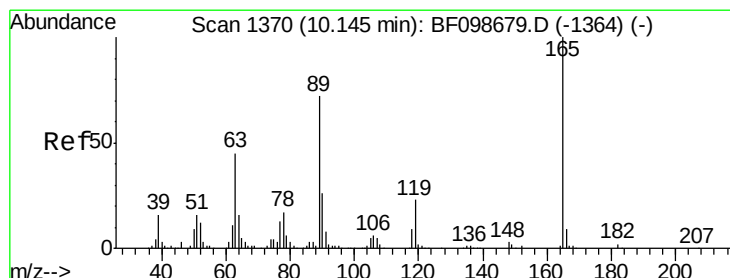
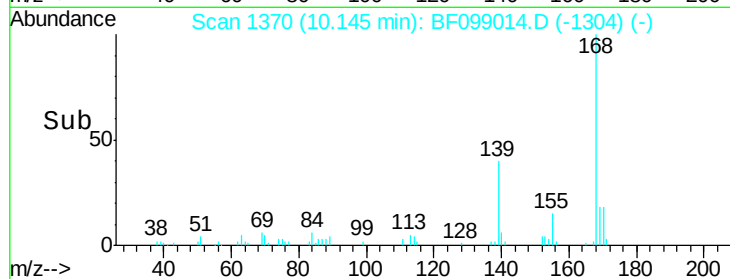
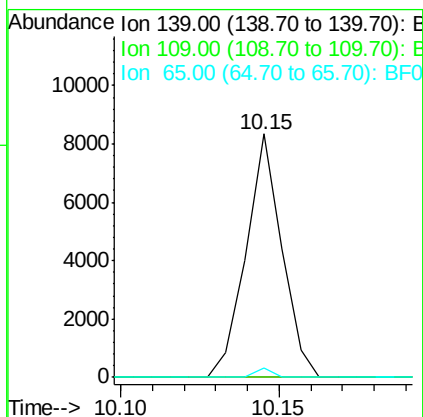
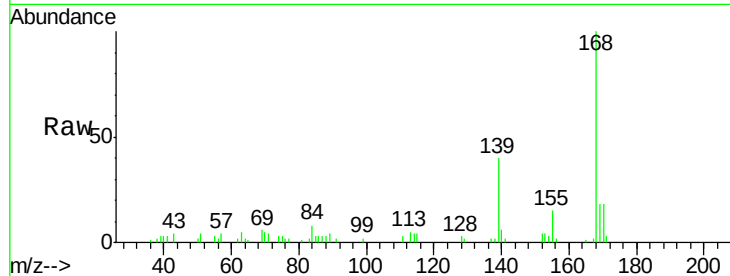




#55
4-Nitrophenol
Concen: 2.29 ng
RT: 10.15 min Scan# 1370
Delta R.T. 0.09 min
Lab File: BF099014.D
Acq: 2 Oct 2017 21:56

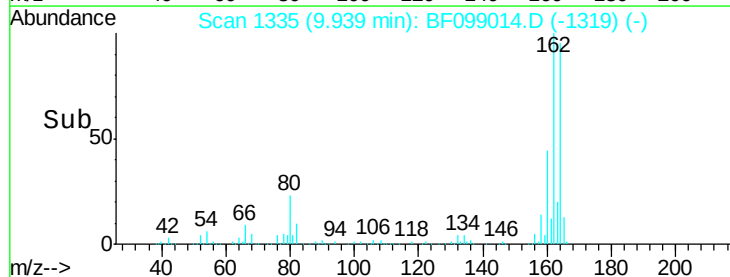
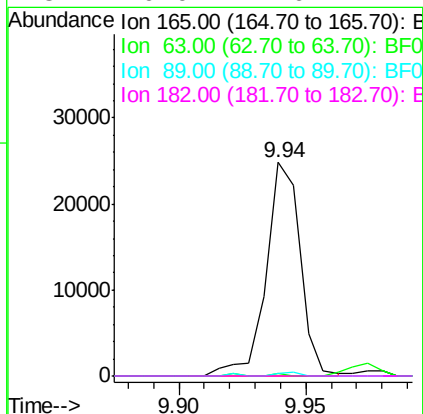
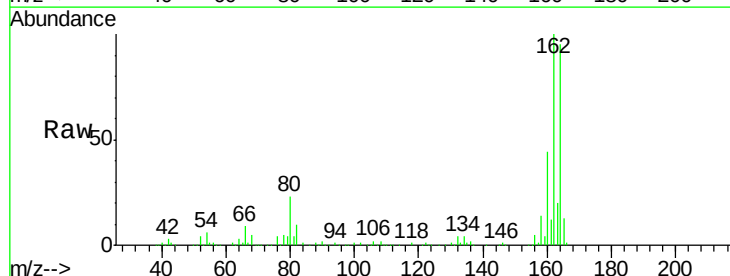
Instrument :
BNA_F
ClientSampled :

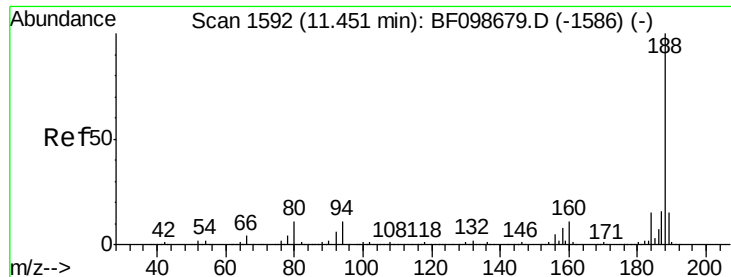
Tot Ion	Ratio	Lower	Upper
139	100		
109	0.0	48.4	88.4#
65	3.7	72.6	112.6#



#56
2,4-Dinitrotoluene
Concen: 6.19 ng
RT: 9.94 min Scan# 1335
Delta R.T. -0.21 min
Lab File: BF099014.D
Acq: 2 Oct 2017 21:56

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.4	36.4	54.6#
89	1.4	57.8	86.6#
182	0.0	1.6	2.4#

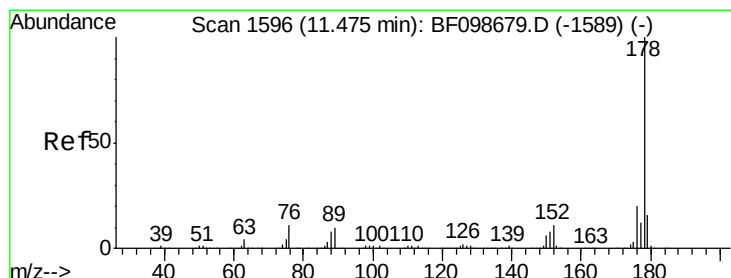
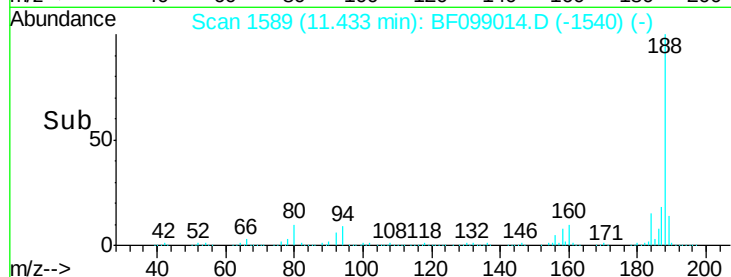
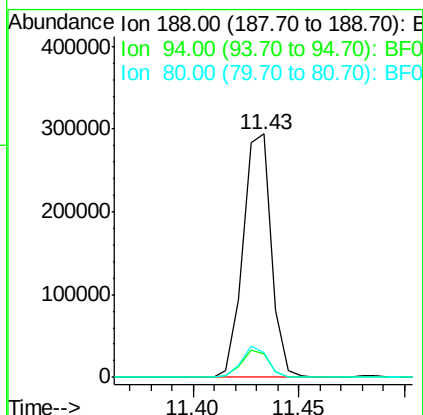
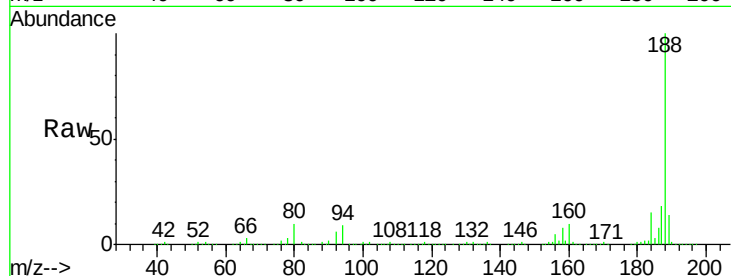




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.43 min Scan# 1589
 Delta R.T. -0.01 min
 Lab File: BF099014.D
 Acq: 2 Oct 2017 21:56

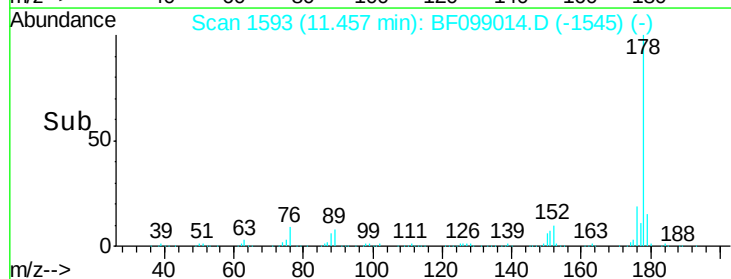
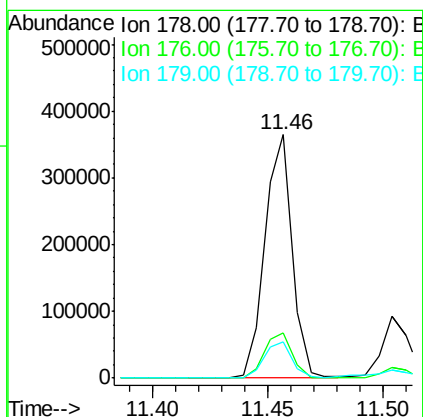
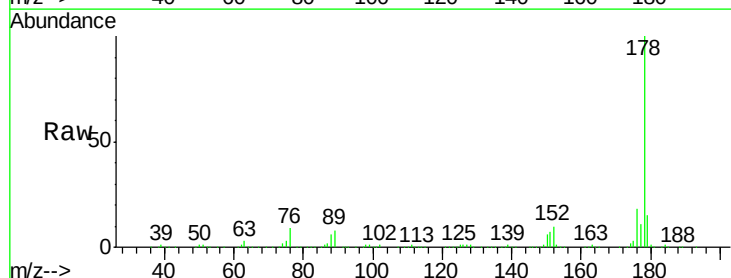
Instrument :
 BNA_F
 ClientSampleId :

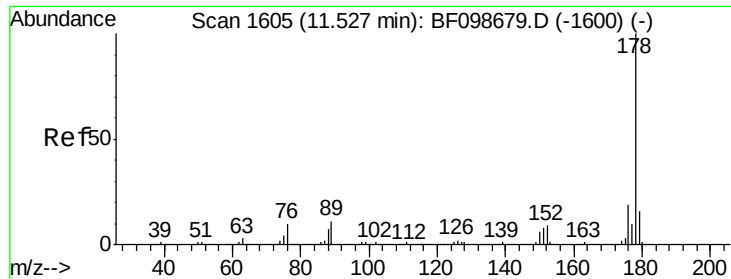
Tot Ion:188 Resp: 272373
 Ion Ratio Lower Upper
 188 100
 94 9.4 8.5 12.7
 80 10.1 9.2 13.8



#70
 Phenanthrene
 Concen: 20.59 ng
 RT: 11.46 min Scan# 1593
 Delta R.T. -0.02 min
 Lab File: BF099014.D
 Acq: 2 Oct 2017 21:56

Tgt Ion:178 Resp: 300169
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.8 23.8
 179 14.9 13.0 19.6

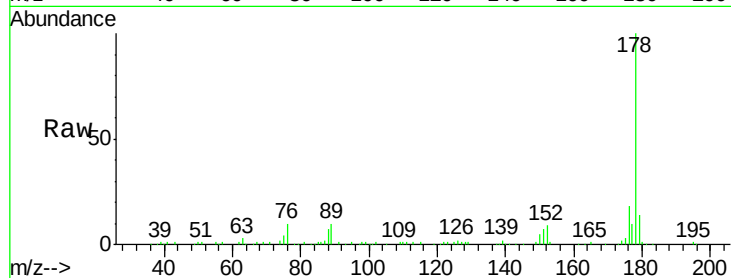




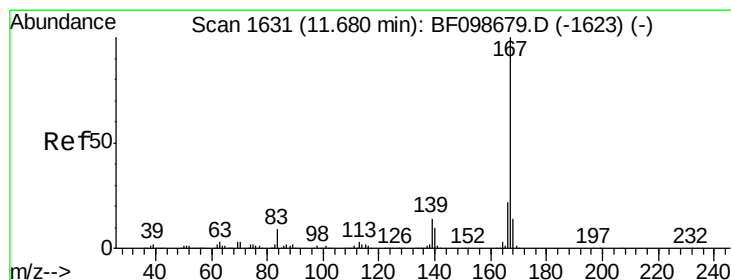
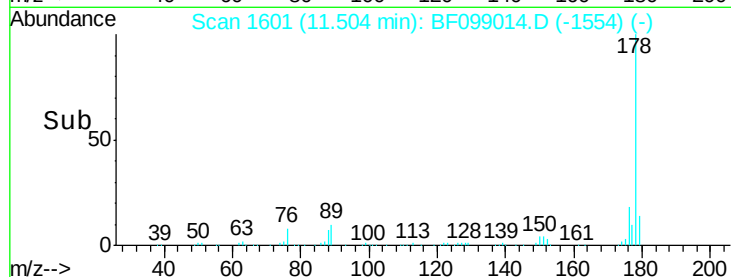
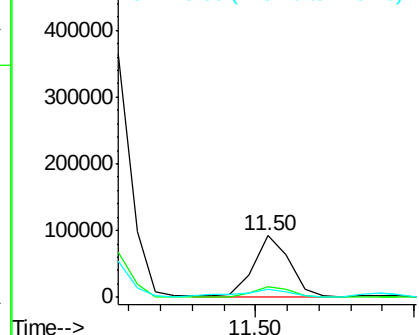
#71
 Anthracene
 Concen: 4.86 ng
 RT: 11.50 min Scan# 1601
 Delta R.T. -0.02 min
 Lab File: BF099014.D
 Acq: 2 Oct 2017 21:56

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 72487
 Ion Ratio Lower Upper
 178 100
 176 18.3 15.4 23.2
 179 14.2 12.6 19.0

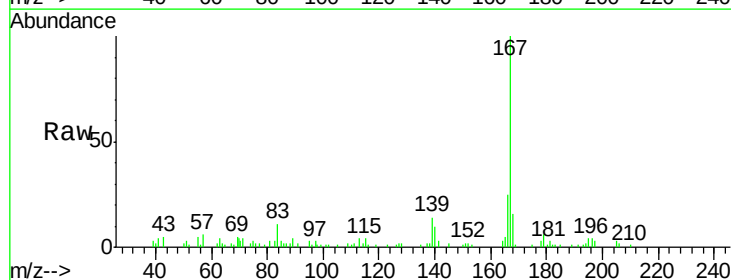


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

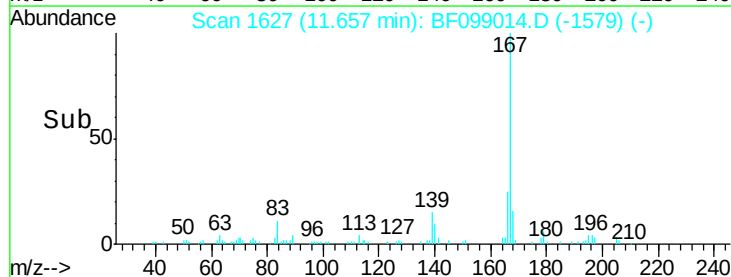
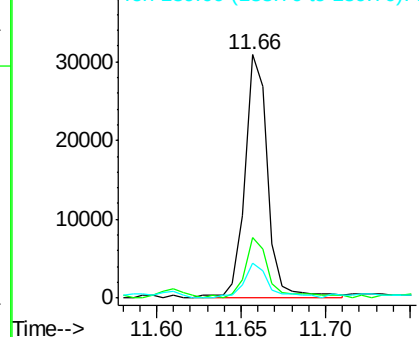


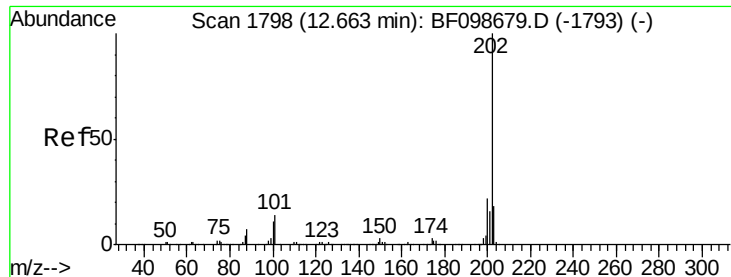
#72
 Carbazole
 Concen: 2.01 ng
 RT: 11.66 min Scan# 1627
 Delta R.T. -0.02 min
 Lab File: BF099014.D
 Acq: 2 Oct 2017 21:56

Tgt Ion:167 Resp: 29389
 Ion Ratio Lower Upper
 167 100
 166 25.0 17.6 26.4
 139 14.4 10.9 16.3



Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E

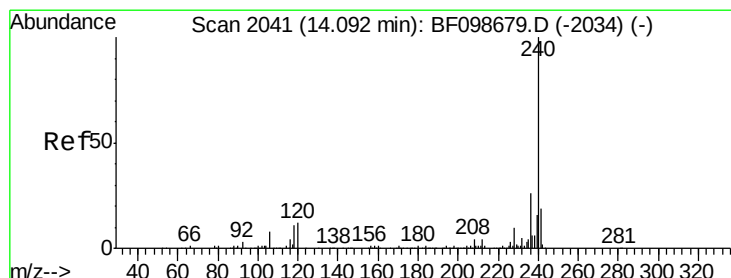
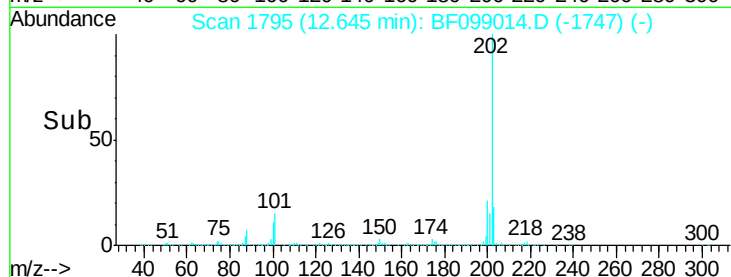
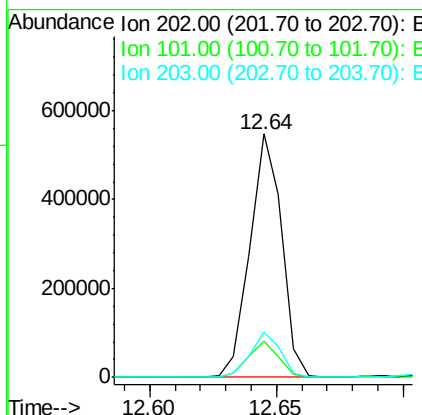
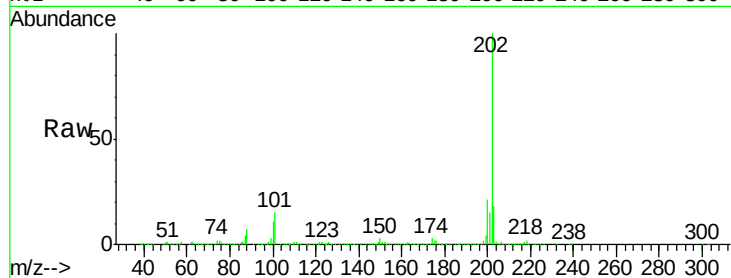




#74
Fluoranthene
Concen: 32.35 ng
RT: 12.64 min Scan# 1795
Delta R.T. -0.02 min
Lab File: BF099014.D
Acq: 2 Oct 2017 21:56

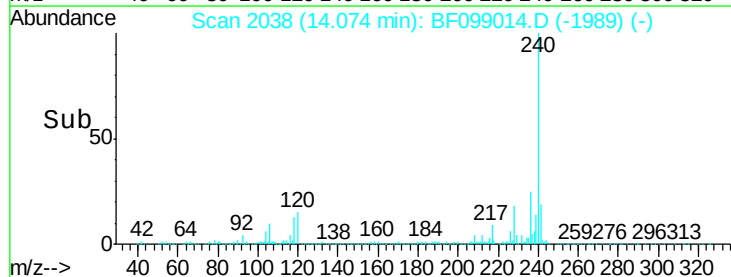
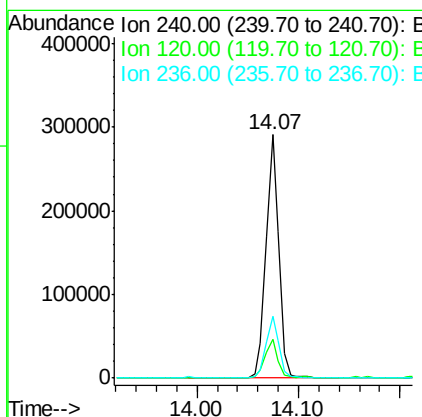
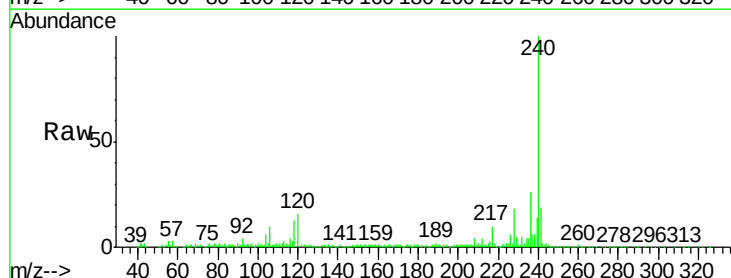
Instrument :
BNA_F
ClientSampleId :

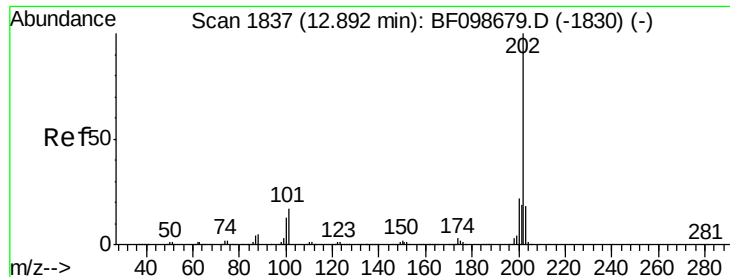
Tot Ion:	202	Resp:	477566
Ion	Ratio	Lower	Upper
202	100		
101	14.7	0.0	34.1
203	18.3	0.0	38.1



#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.07 min Scan# 2038
Delta R.T. -0.01 min
Lab File: BF099014.D
Acq: 2 Oct 2017 21:56

Tgt Ion:	240	Resp:	254766
Ion	Ratio	Lower	Upper
240	100		
120	15.7	9.5	14.3#
236	25.5	20.7	31.1





#77

Pvrene

Concen: 24.79 ng

RT: 12.87 min Scan# 1834

Delta R.T. -0.02 min

Lab File: BF099014.D

Acq: 2 Oct 2017 21:56

Instrument :

BNA_F

ClientSampleId :

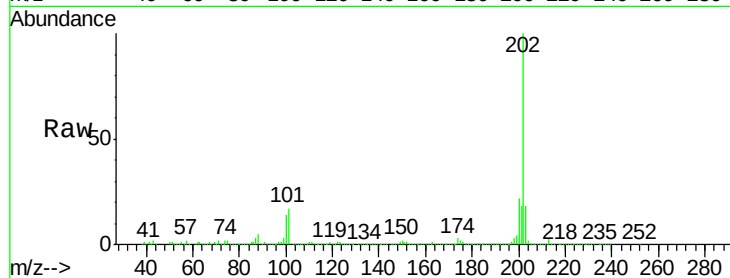
Tot Ion:202 Resp: 481659

Ion Ratio Lower Upper

202 100

200 22.0 17.4 26.2

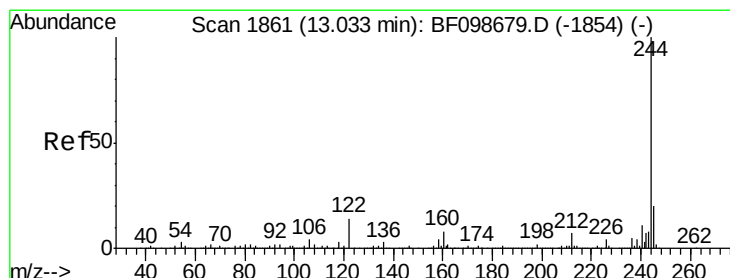
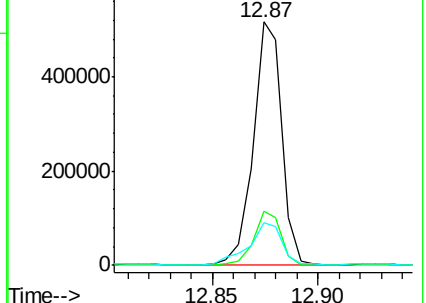
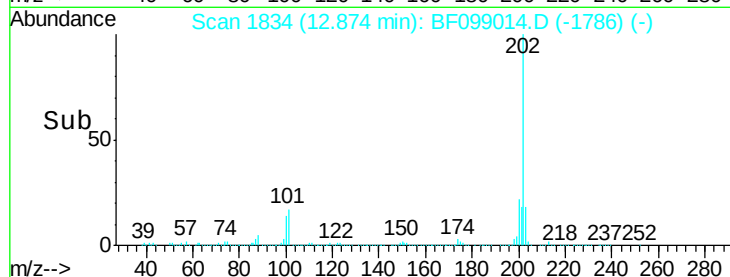
203 17.7 14.3 21.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 36.87 ng

RT: 13.02 min Scan# 1858

Delta R.T. -0.02 min

Lab File: BF099014.D

Acq: 2 Oct 2017 21:56

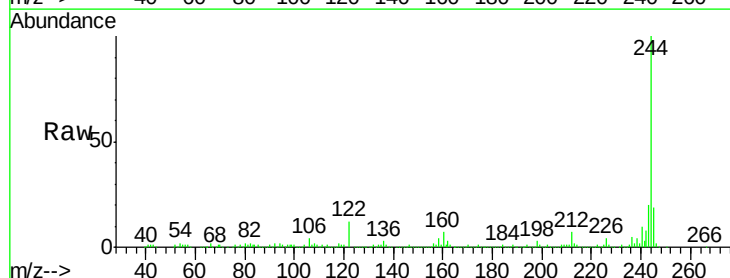
Tgt Ion:244 Resp: 413005

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

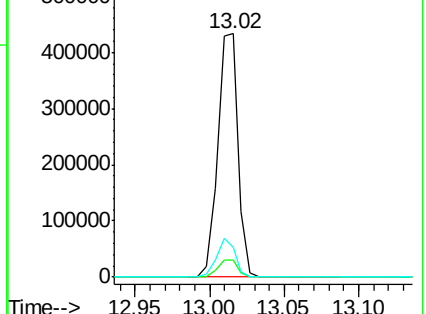
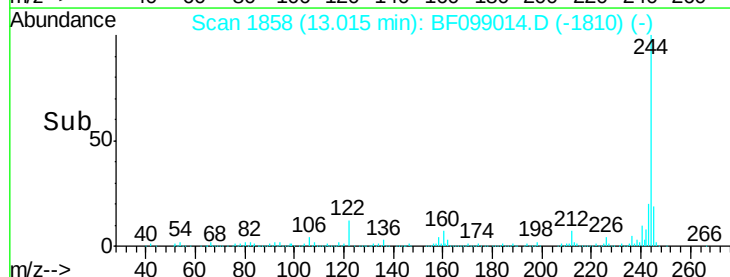
122 12.4 11.0 16.4

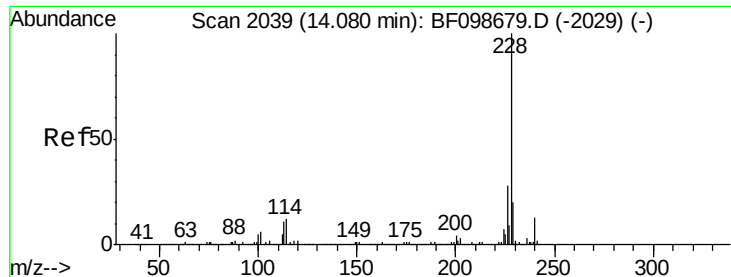


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

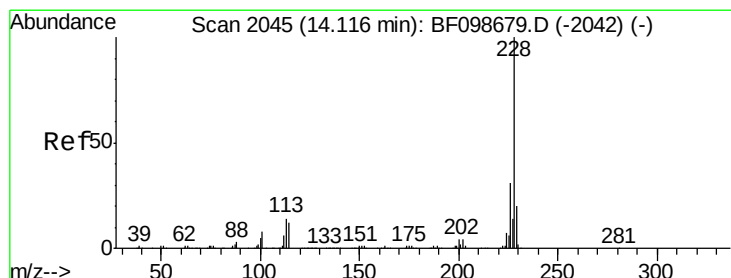
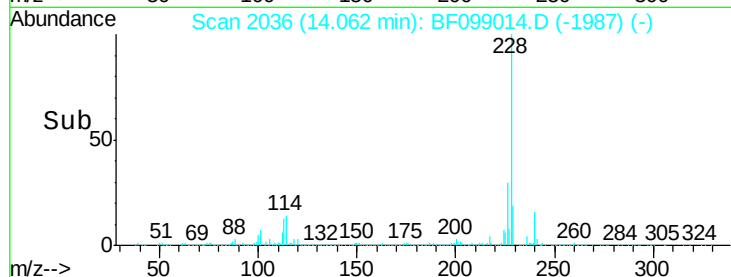
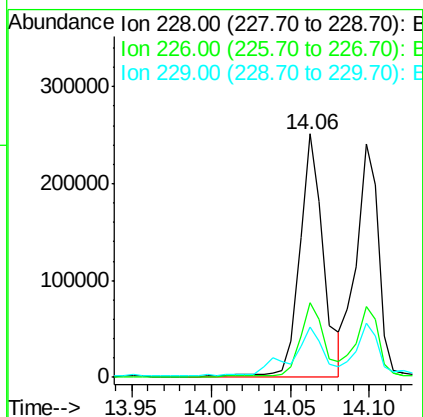
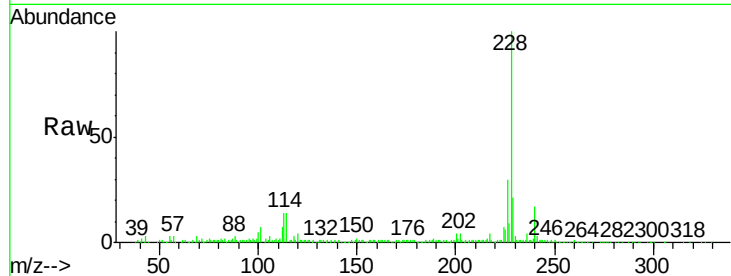




#80
Benzo(a)anthracene
Concen: 16.70 ng
RT: 14.06 min Scan# 2036
Delta R.T. -0.01 min
Lab File: BF099014.D
Acq: 2 Oct 2017 21:56

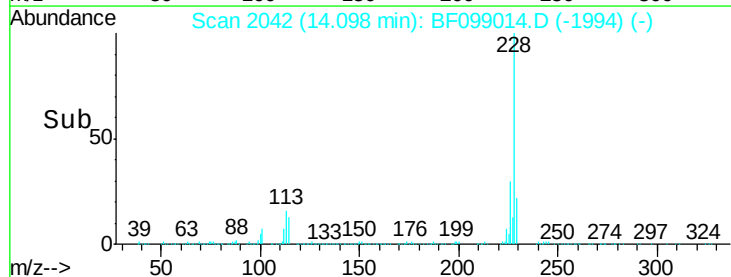
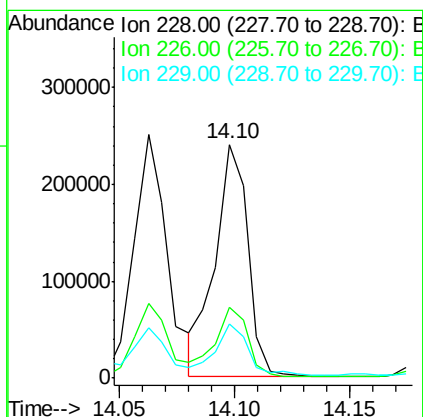
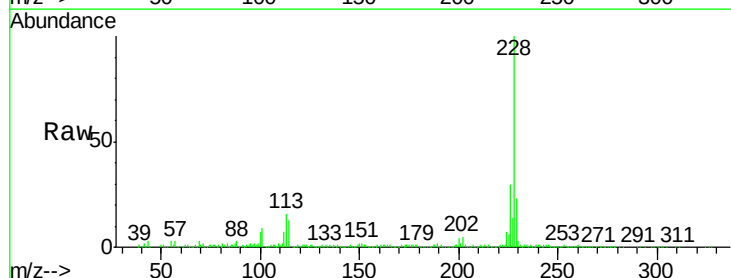
Instrument :
BNA_F
ClientSampleId :

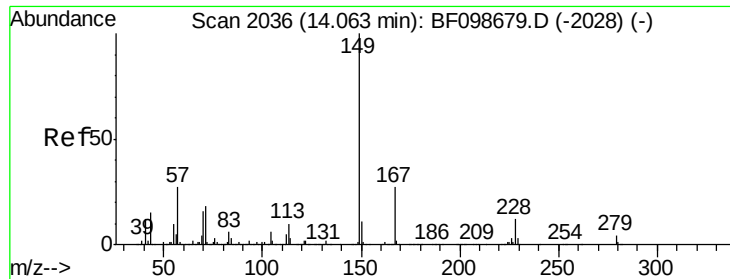
Tot Ion:228 Resp: 257583
Ion Ratio Lower Upper
228 100
226 30.4 22.6 33.8
229 20.7 15.8 23.6



#82
Chrysene
Concen: 16.18 ng
RT: 14.10 min Scan# 2042
Delta R.T. -0.02 min
Lab File: BF099014.D
Acq: 2 Oct 2017 21:56

Tgt Ion:228 Resp: 237624
Ion Ratio Lower Upper
228 100
226 30.2 25.0 37.6
229 23.0 16.2 24.4

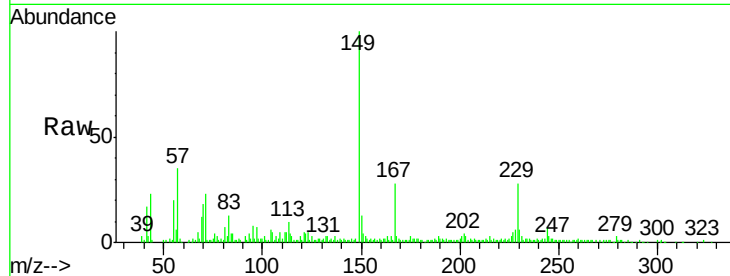




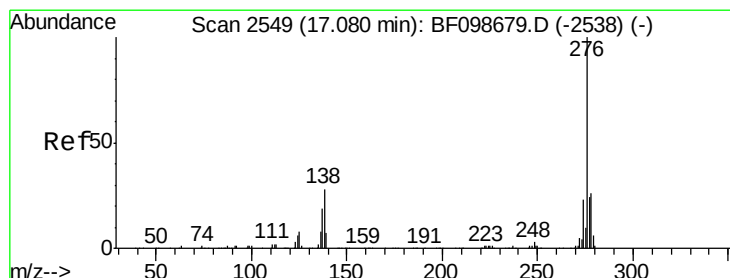
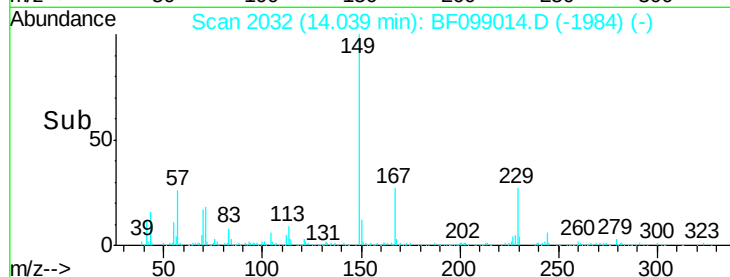
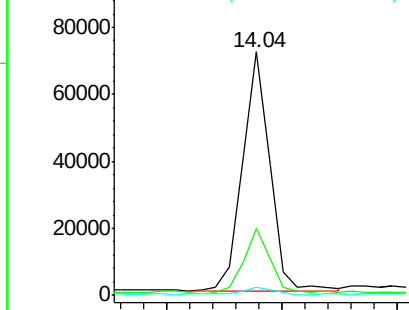
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 4.69 ng
 RT: 14.04 min Scan# 2032
 Delta R.T. -0.02 min
 Lab File: BF099014.D
 Acq: 2 Oct 2017 21:56

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
149	100		
167	27.5	21.3	31.9
279	3.3	3.0	4.4

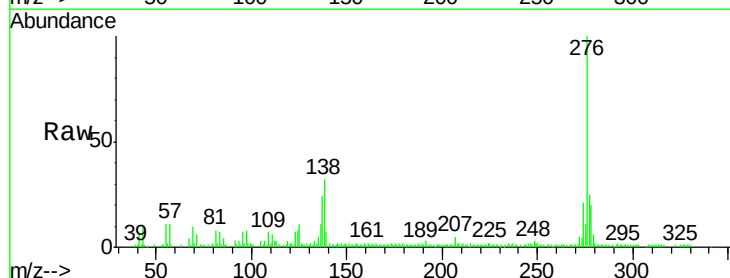


Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

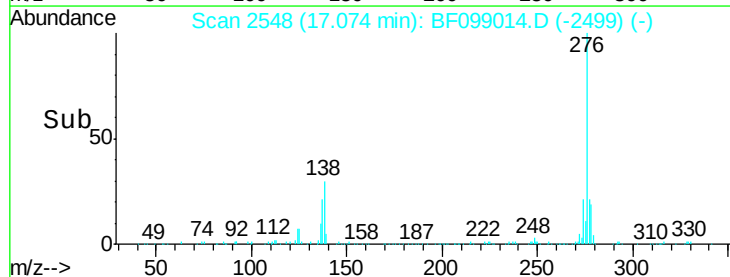
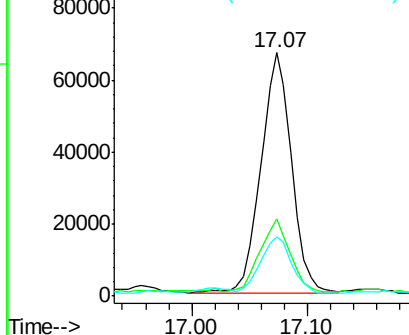


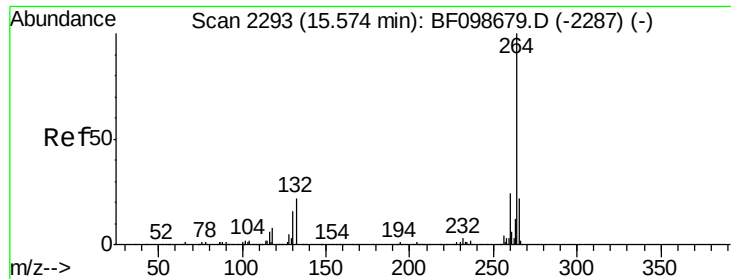
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 10.58 ng
 RT: 17.07 min Scan# 2548
 Delta R.T. -0.01 min
 Lab File: BF099014.D
 Acq: 2 Oct 2017 21:56

Tgt Ion	Ratio	Lower	Upper
276	100		
138	29.6	25.0	37.6
277	24.2	20.1	30.1



Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

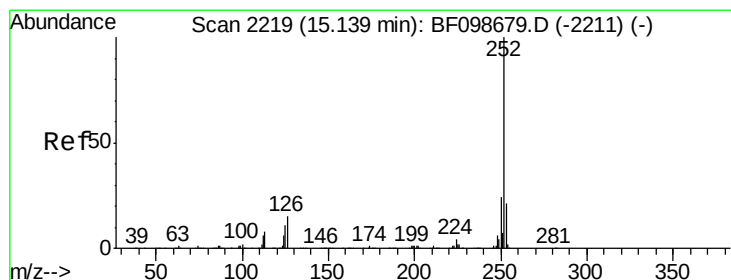
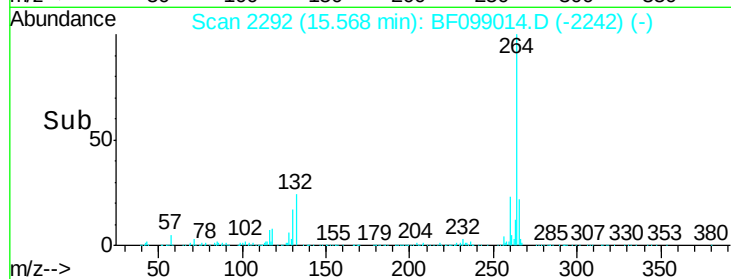
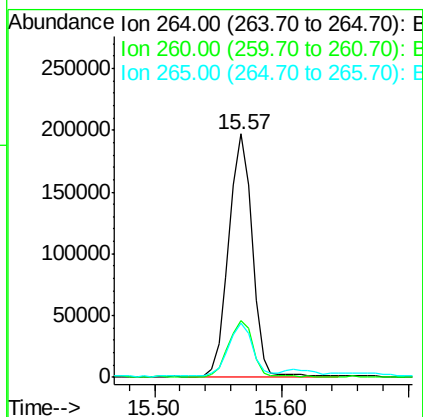
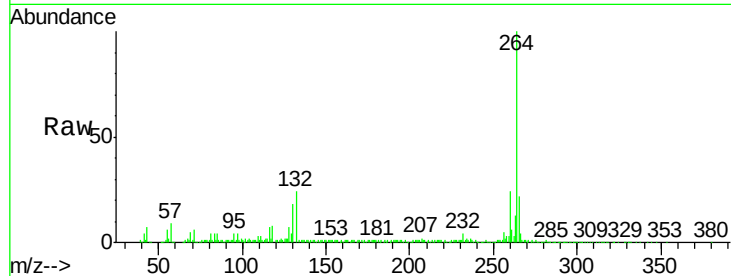




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.57 min Scan# 2292
Delta R.T. -0.01 min
Lab File: BF099014.D
Acq: 2 Oct 2017 21:56

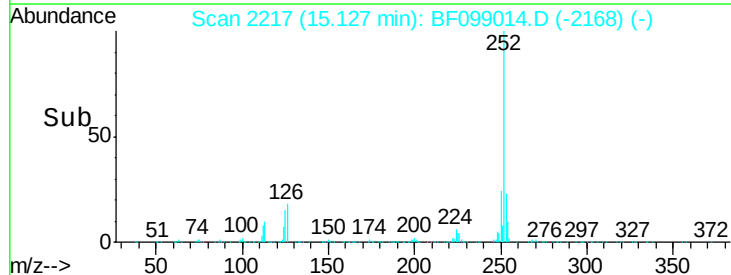
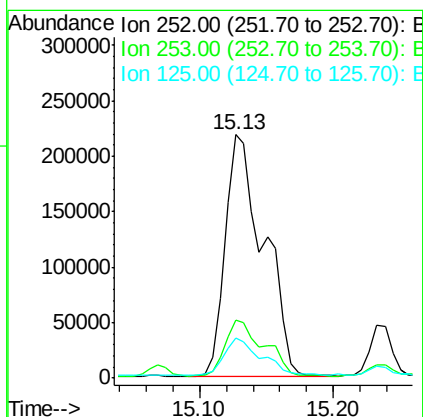
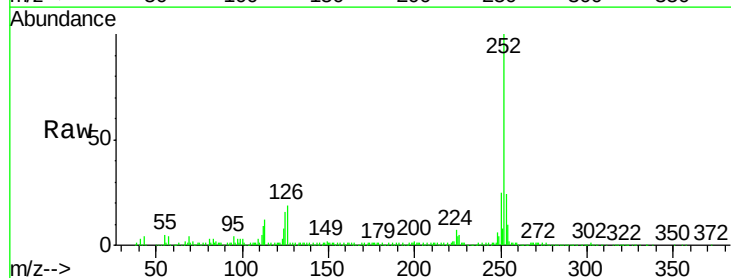
Instrument :
BNA_F
ClientSampled :

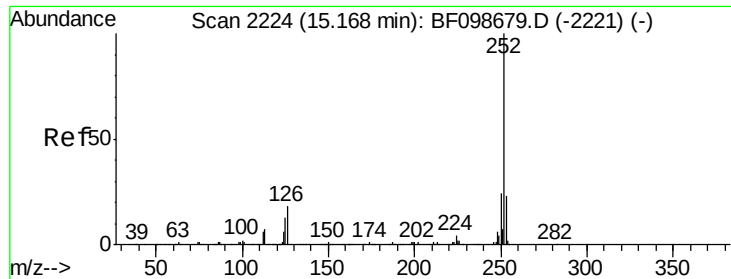
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.2	28.8
265	22.3	17.5	26.3



#87
Benzo(b)fluoranthene
Concen: 28.73 ng
RT: 15.13 min Scan# 2217
Delta R.T. -0.01 min
Lab File: BF099014.D
Acq: 2 Oct 2017 21:56

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.0	25.6
125	16.2	9.0	13.6





#88

Benzo(k)fluoranthene

Concen: 29.08 ng

RT: 15.13 min Scan# 2217

Delta R.T. -0.04 min

Lab File: BF099014.D

Acq: 2 Oct 2017 21:56

Instrument :

BNA_F

ClientSampled :

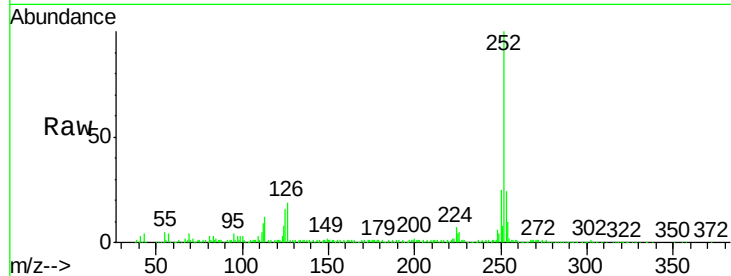
Tot Ion:252 Resp: 442768

Ion Ratio Lower Upper

252 100

253 23.8 17.9 26.9

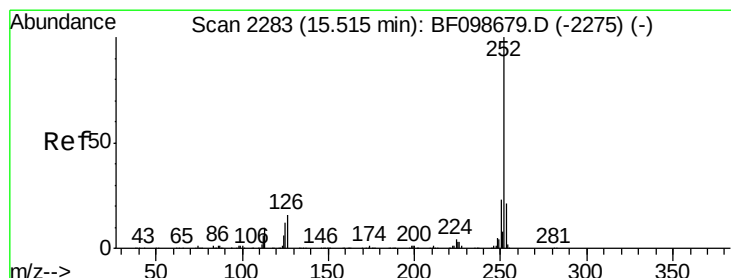
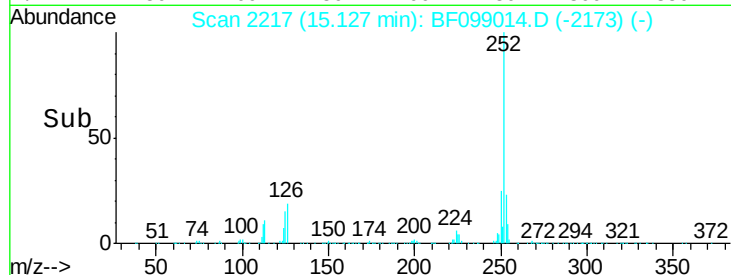
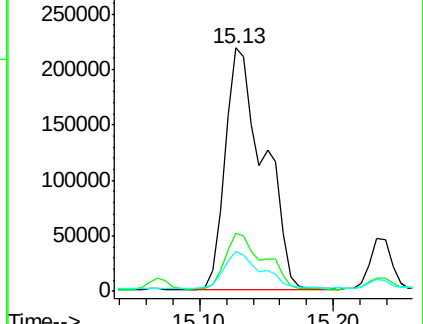
125 16.2 10.2 15.2#



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: 17.06 ng

RT: 15.50 min Scan# 2281

Delta R.T. -0.01 min

Lab File: BF099014.D

Acq: 2 Oct 2017 21:56

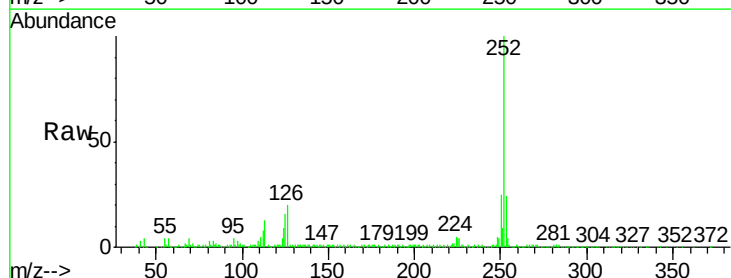
Tgt Ion:252 Resp: 241377

Ion Ratio Lower Upper

252 100

253 23.6 17.1 25.7

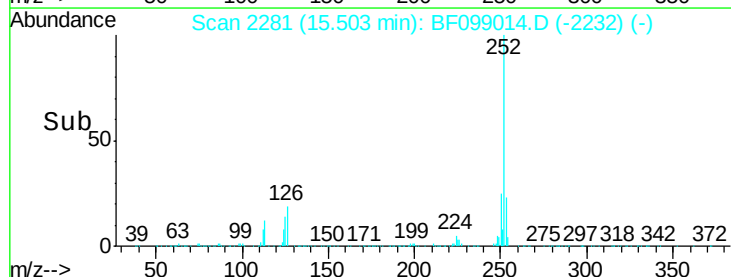
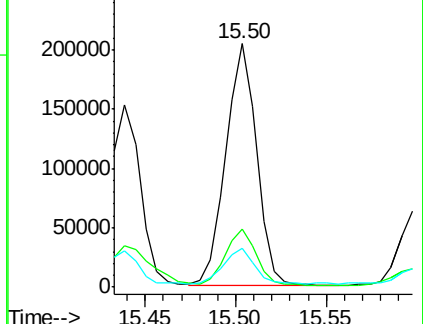
125 15.7 9.8 14.6#

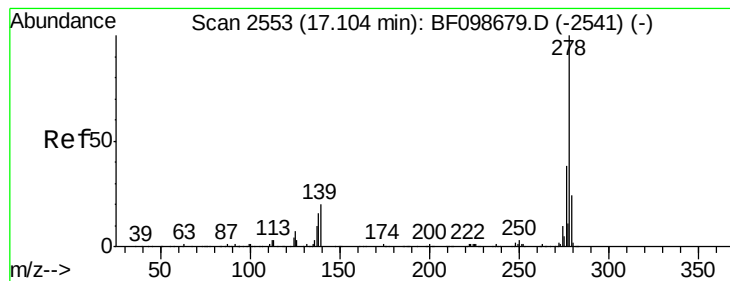


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 2.57 ng

RT: 17.08 min Scan# 2549

Delta R.T. -0.02 min

Lab File: BF099014.D

Acq: 2 Oct 2017 21:56

Instrument :

BNA_F

ClientSampleId :

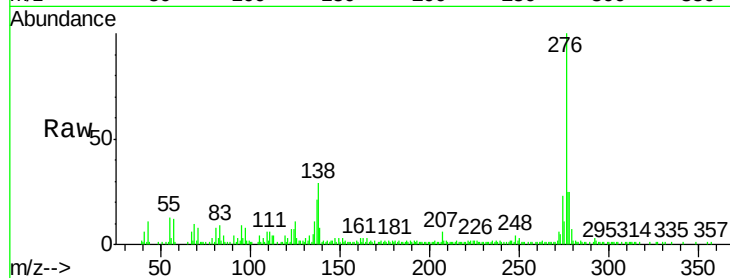
Tot Ion:278 Resp: 29119

Ion Ratio Lower Upper

278 100

139 31.9 15.9 23.9#

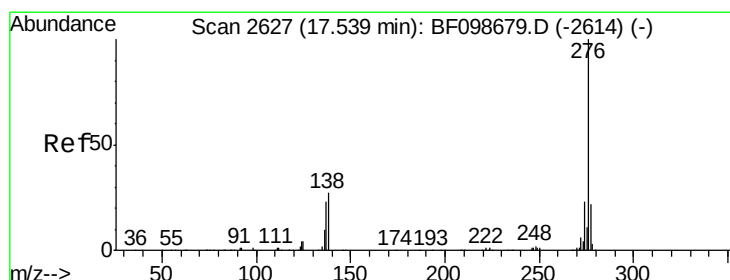
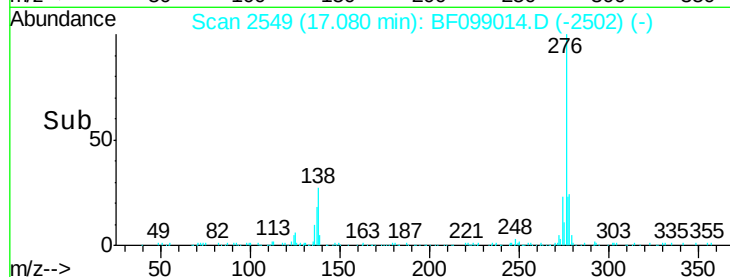
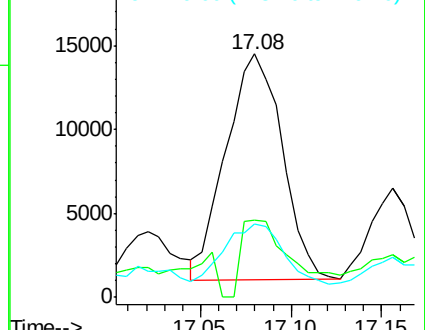
279 30.1 19.0 28.4#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 10.76 ng

RT: 17.53 min Scan# 2626

Delta R.T. -0.01 min

Lab File: BF099014.D

Acq: 2 Oct 2017 21:56

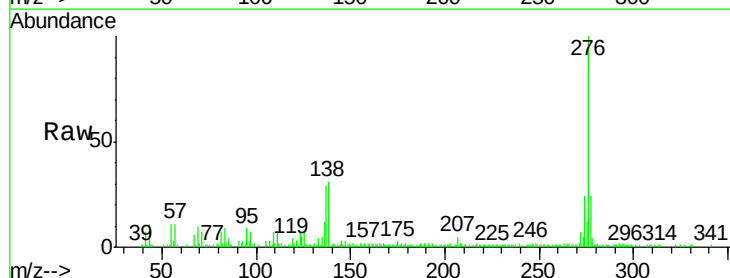
Tgt Ion:276 Resp: 120481

Ion Ratio Lower Upper

276 100

277 24.0 17.9 26.9

138 31.2 21.8 32.8



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

