

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102918\
 Data File : BF110284.D
 Acq On : 30 Oct 2018 1:21
 Operator : JU/SJ
 Sample : J5685-06
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 30 08:49:36 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 29 17:29:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	120495	20.00	ng	0.00
21) Naphthalene-d8	8.25	136	471610	20.00	ng	0.00
39) Acenaphthene-d10	10.02	164	193999	20.00	ng	0.00
64) Phenanthrene-d10	11.51	188	302385	20.00	ng	0.00
76) Chrysene-d12	14.16	240	184729	20.00	ng	0.00
87) Perylene-d12	15.69	264	139681	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.60	112	717451	96.96	ng	0.01
7) Phenol-d6	6.60	99	893563	94.41	ng	0.00
23) Nitrobenzene-d5	7.53	82	561283	70.59	ng	0.00
42) 2,4,6-Tribromophenol	10.81	330	146324	76.14	ng	0.00
45) 2-Fluorobiphenyl	9.33	172	1019286	82.50	ng	0.00
79) Terphenyl-d14	13.09	244	699151	78.71	ng	0.00

Target Compounds

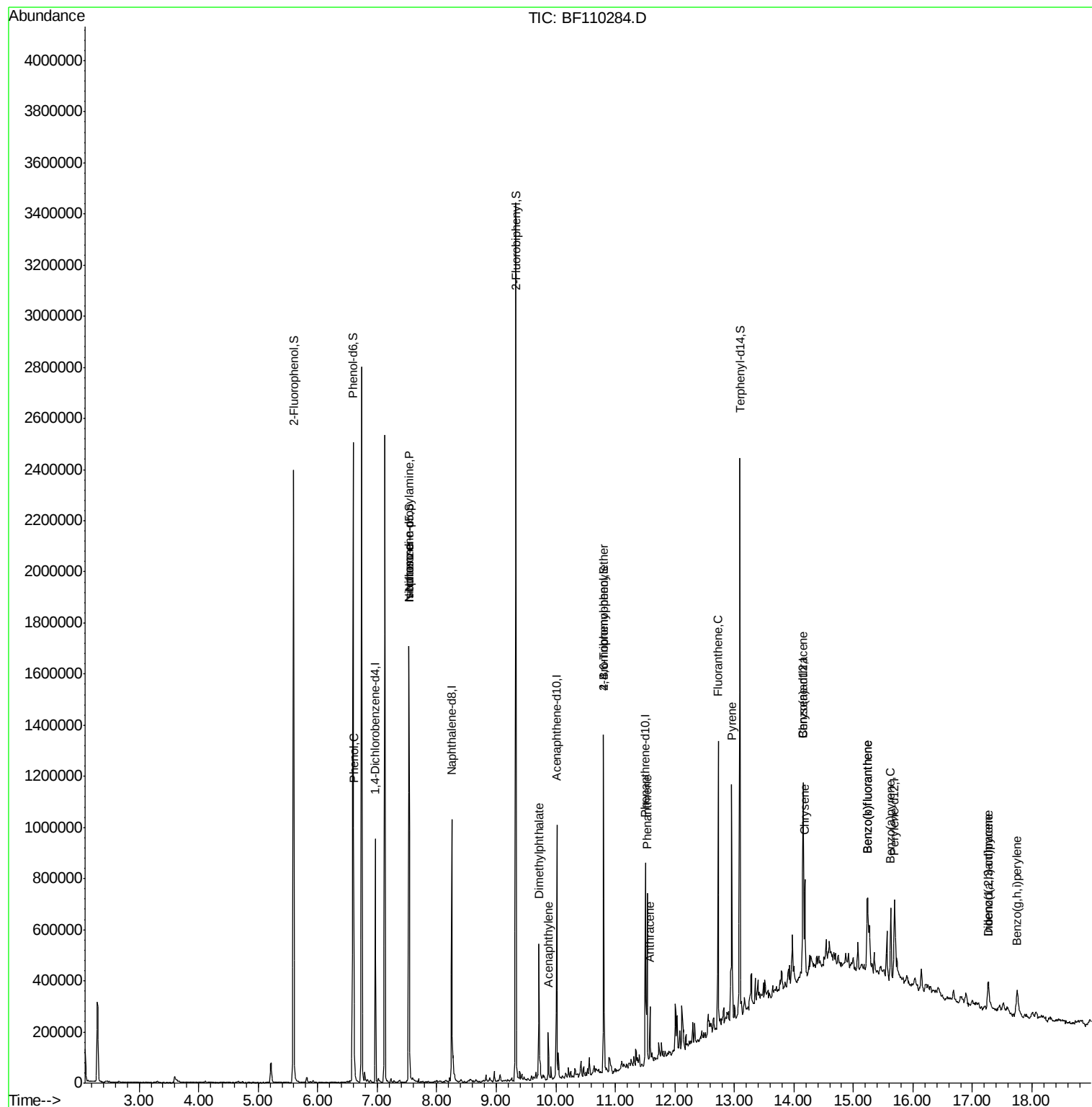
					Qvalue	
9) Benzaldehyde	6.53	77	598	Below Cal	#	1
10) Phenol	6.61	94	67938	6.715 ng	#	61
19) n-Nitroso-di-n-propylamine	7.53	70	75350	12.410 ng	#	80
25) Isophorone	7.53	82	561274	41.411 ng	#	67
49) Acenaphthylene	9.87	152	75587	4.067 ng		99
50) Dimethylphthalate	9.72	163	187946	13.124 ng		99
67) 4-Bromophenyl-phenylether	10.80	248	9525	2.904 ng	#	1
71) Phenanthrene	11.53	178	244657	15.463 ng		100
72) Anthracene	11.58	178	88119	5.556 ng		98
75) Fluoranthene	12.73	202	403080	25.102 ng		99
77) Benzidine	12.86	184	1122	Below Cal	#	1
78) Pyrene	12.96	202	383254	28.939 ng		99
81) Benzo(a)anthracene	14.15	228	176802	16.139 ng		94
83) Chrysene	14.19	228	158398	15.223 ng		98
86) Indeno(1,2,3-cd)pyrene	17.27	276	76354	8.846 ng		99
88) Benzo(b)fluoranthene	15.24	252	231293	28.675 ng	#	94
89) Benzo(k)fluoranthene	15.24	252	231293	29.168 ng	#	93
90) Benzo(a)pyrene	15.63	252	129741	17.480 ng		98
91) Dibenzo(a,h)anthracene	17.27	278	19872	3.103 ng	#	81
92) Benzo(a,h,i)perylene	17.75	276	82071	13.005 ng	#	93

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

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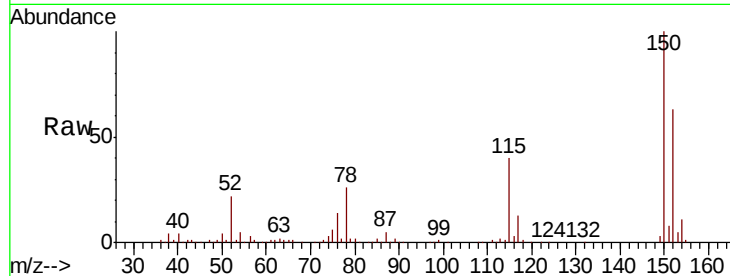


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 830
Delta R.T. 0.00 min
Lab File: BF110284.D
Acq: 30 Oct 2018 1:21

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.4	122.7	184.1
115	63.1	49.1	73.7

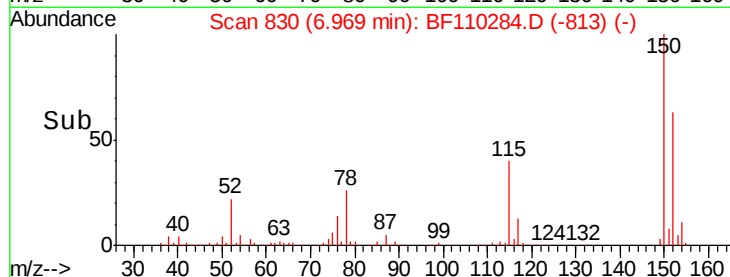
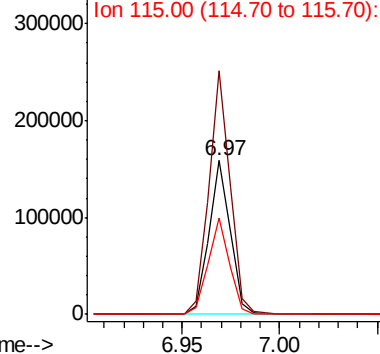


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

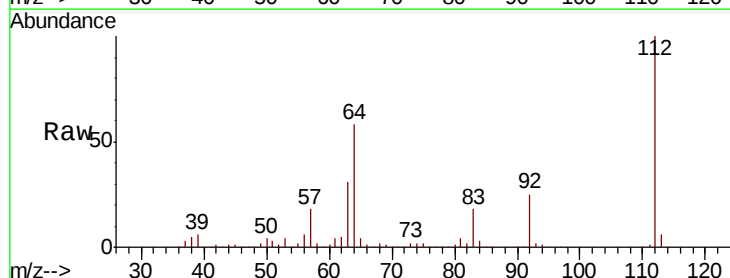
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 96.961 ng
RT: 5.60 min Scan# 597
Delta R.T. 0.01 min
Lab File: BF110284.D
Acq: 30 Oct 2018 1:21

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.9	44.1	66.1
63	30.6	23.7	35.5

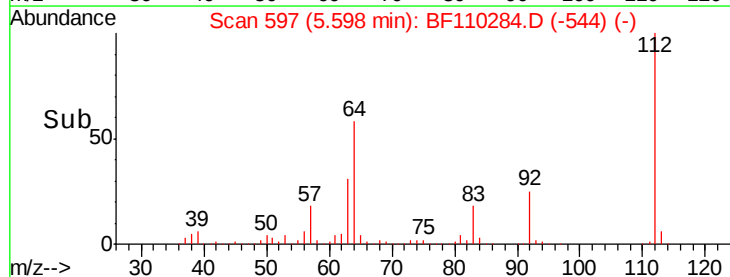
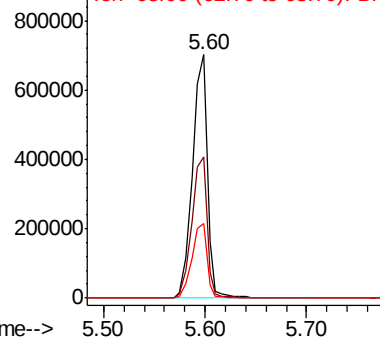


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 94.414 ng

RT: 6.60 min Scan# 767

Delta R.T. 0.01 min

Lab File: BF110284.D

Acq: 30 Oct 2018 1:21

Instrument :

BNA_F

ClientSampled :

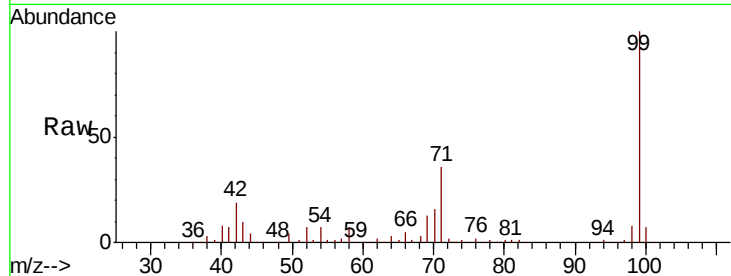
Tot Ion: 99 Resp: 893563

Ion Ratio Lower Upper

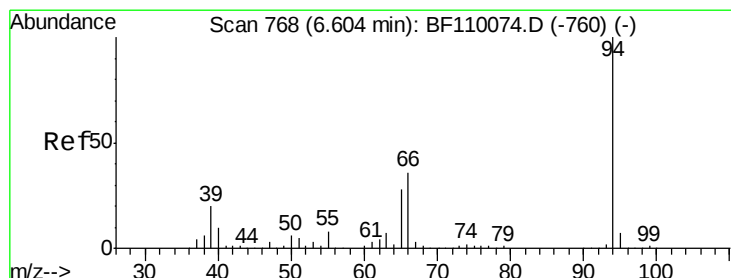
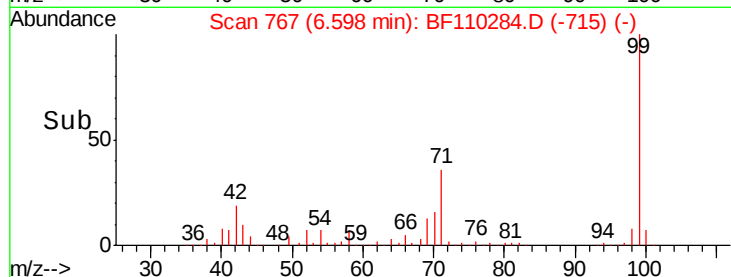
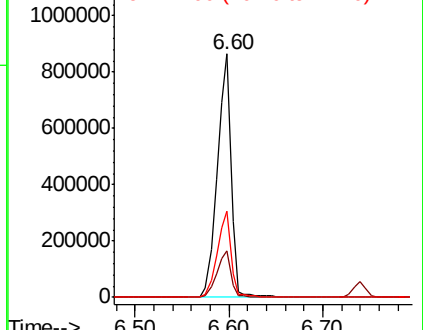
99 100

42 19.3 15.8 23.6

71 35.6 28.0 42.0



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 6.715 ng

RT: 6.61 min Scan# 769

Delta R.T. 0.01 min

Lab File: BF110284.D

Acq: 30 Oct 2018 1:21

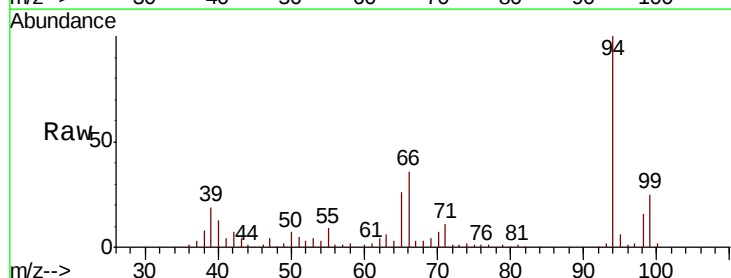
Tgt Ion: 94 Resp: 67938

Ion Ratio Lower Upper

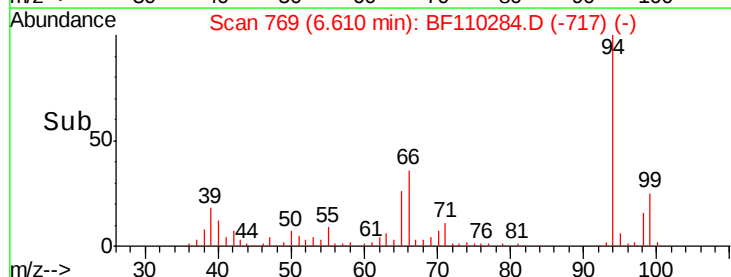
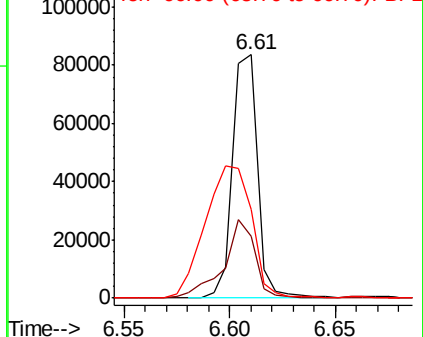
94 100

65 25.5 25.3 65.3

66 36.4 54.5 94.5#



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1

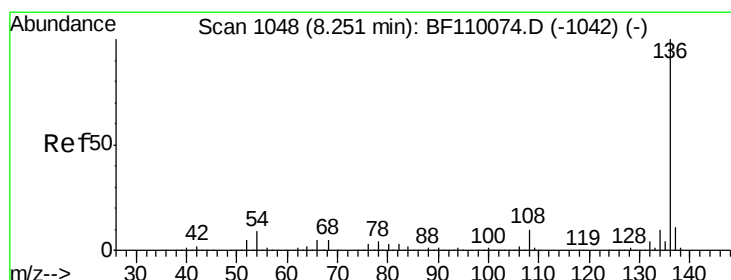
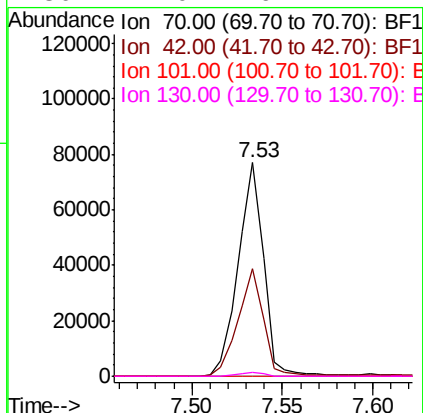
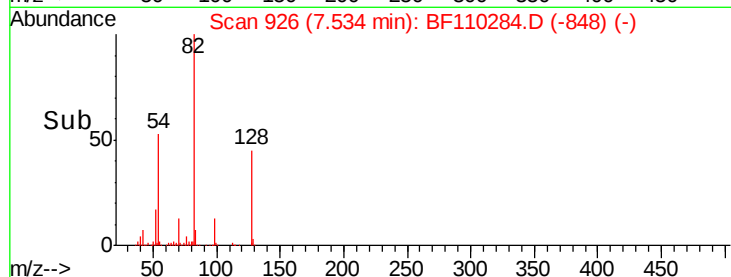
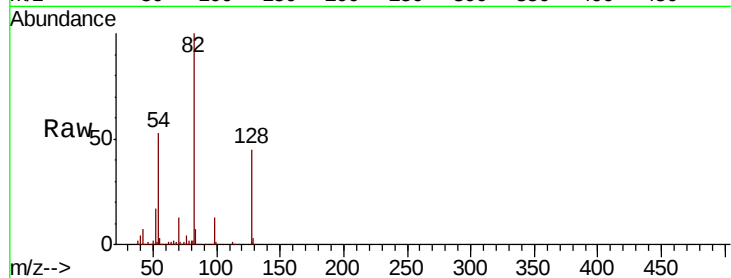




#19
n-Nitroso-di-n-propylamine
Concen: 12.410 ng
RT: 7.53 min Scan# 926
Delta R.T. 0.16 min
Lab File: BF110284.D
Acq: 30 Oct 2018 1:21

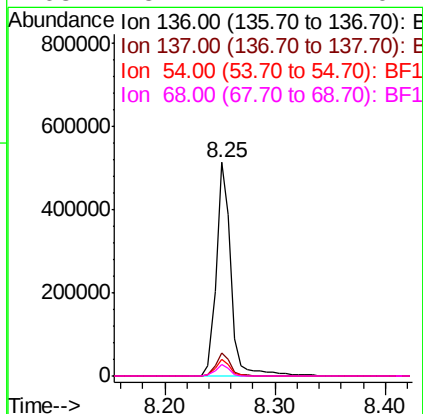
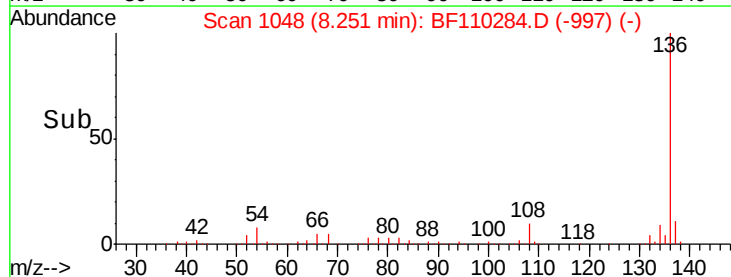
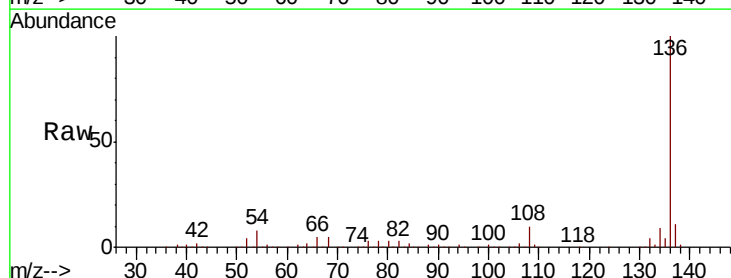
Instrument :
BNA_F
ClientSampled :

Tot Ion: 70 Resp: 75350
Ion Ratio Lower Upper
70 100
42 50.1 47.4 71.2
101 0.0 7.3 10.9#
130 2.0 16.2 24.2#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.25 min Scan# 1048
Delta R.T. 0.00 min
Lab File: BF110284.D
Acq: 30 Oct 2018 1:21

Tgt Ion: 136 Resp: 471610
Ion Ratio Lower Upper
136 100
137 11.0 8.8 13.2
54 8.1 5.4 8.2
68 5.2 4.2 6.2

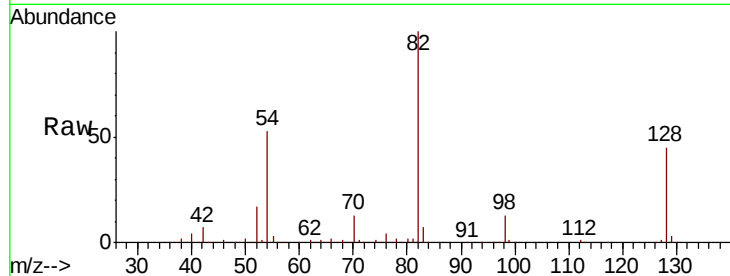




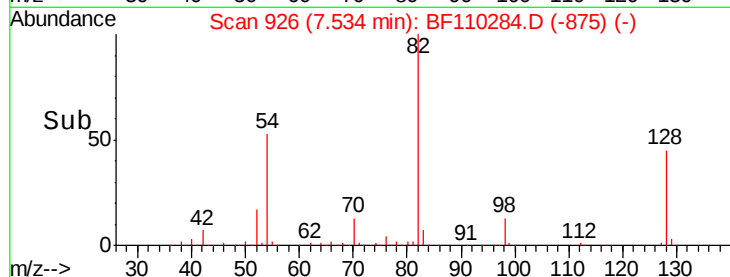
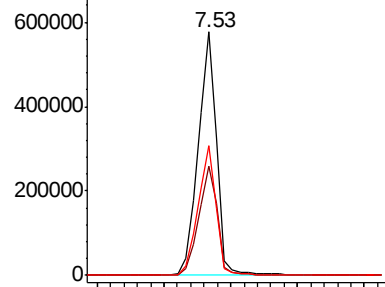
#23
Nitrobenzene-d5
Concen: 70.591 ng
RT: 7.53 min Scan# 926
Delta R.T. 0.00 min
Lab File: BF110284.D
Acq: 30 Oct 2018 1:21

Instrument :
BNA_F
ClientSampled :

Tot Ion	82	Resp	561283
Ion Ratio	100	Lower	Upper
128	44.7	34.2	51.2
54	53.5	38.6	58.0

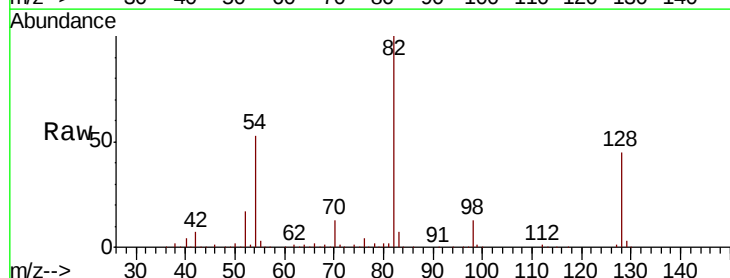


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

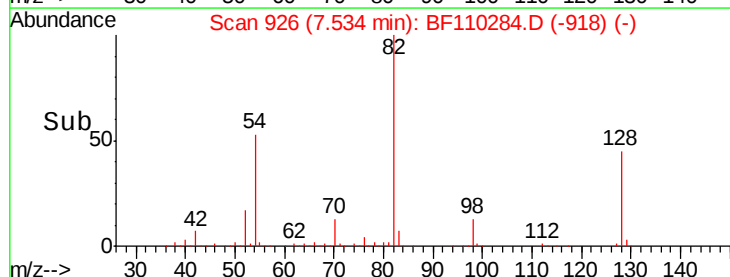
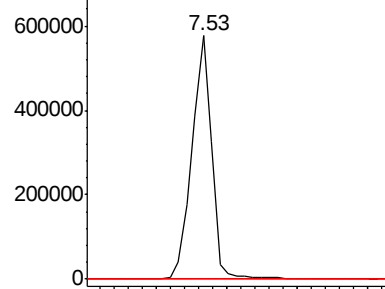


#25
Isophorone
Concen: 41.411 ng
RT: 7.53 min Scan# 926
Delta R.T. -0.25 min
Lab File: BF110284.D
Acq: 30 Oct 2018 1:21

Tgt Ion	82	Resp	561274
Ion Ratio	100	Lower	Upper
95	0.0	5.7	8.5#
138	0.0	13.2	19.8#



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): BF1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.02 min Scan# 1348

Delta R.T. 0.00 min

Lab File: BF110284.D

Acq: 30 Oct 2018 1:21

Instrument :

BNA_F

ClientSampleId :

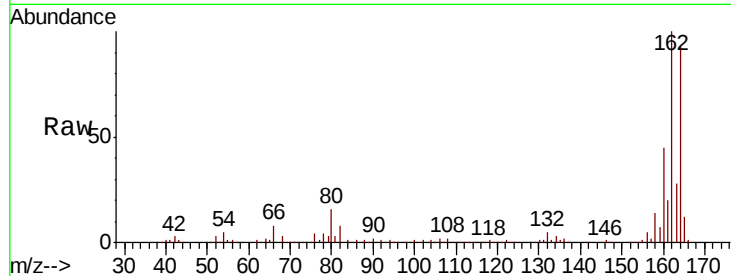
Tot Ion:164 Resp: 193999

Ion Ratio Lower Upper

164 100

162 107.3 83.0 124.6

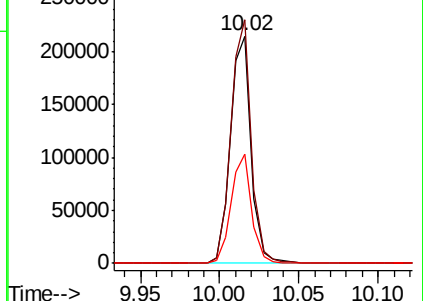
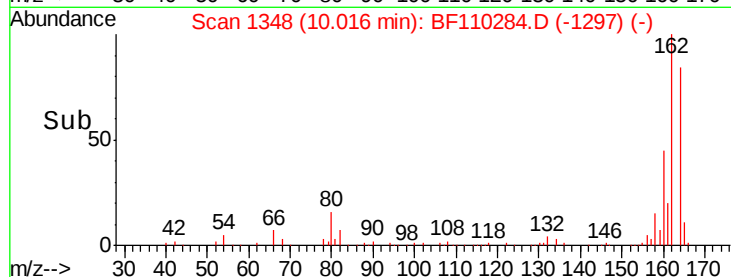
160 47.9 37.0 55.6



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



#42

2,4,6-Tribromophenol

Concen: 76.143 ng

RT: 10.81 min Scan# 1483

Delta R.T. 0.00 min

Lab File: BF110284.D

Acq: 30 Oct 2018 1:21

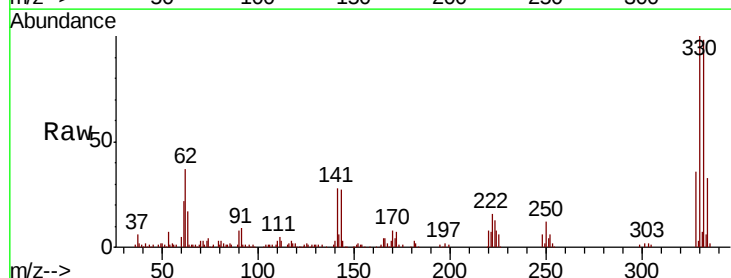
Tgt Ion:330 Resp: 146324

Ion Ratio Lower Upper

330 100

332 98.2 77.1 115.7

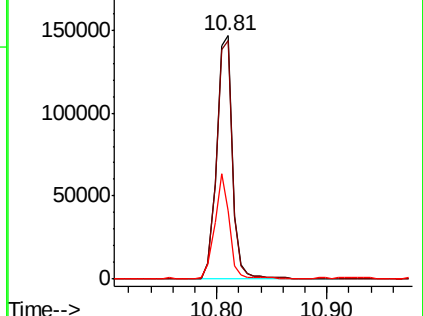
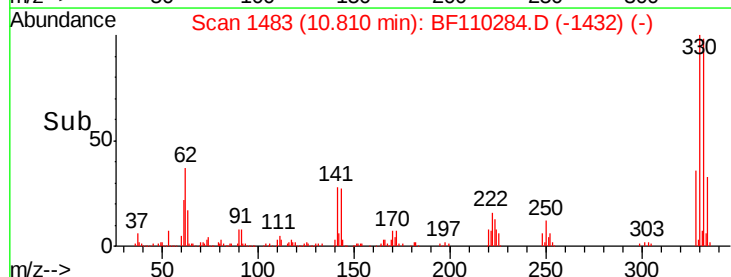
141 38.4 27.0 40.4

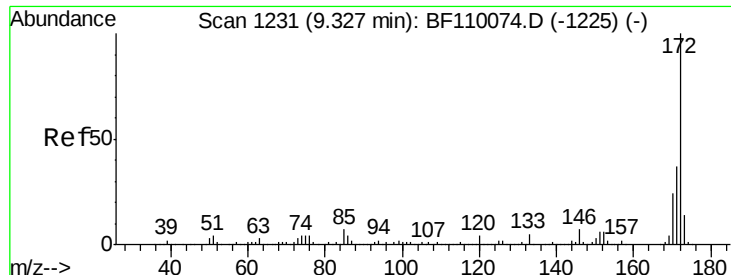


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

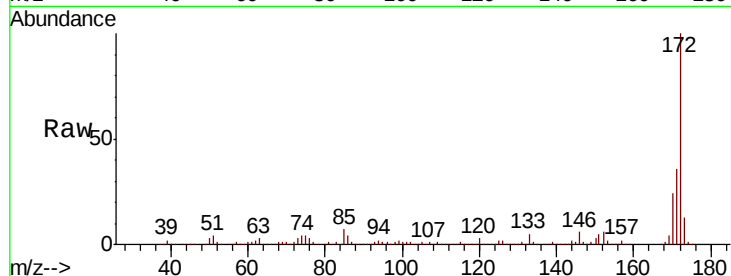




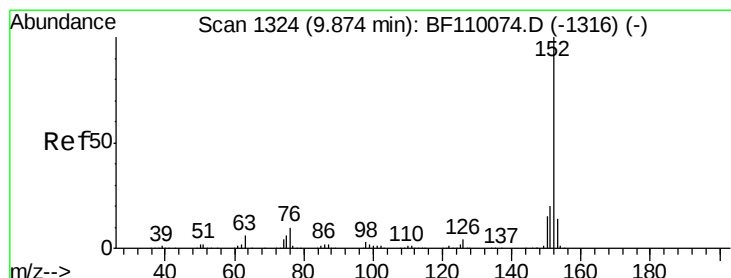
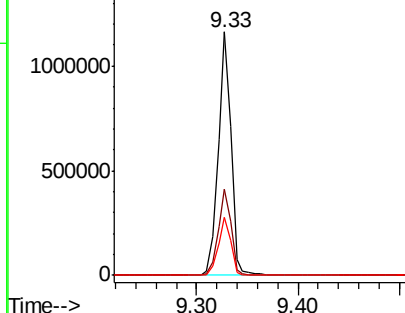
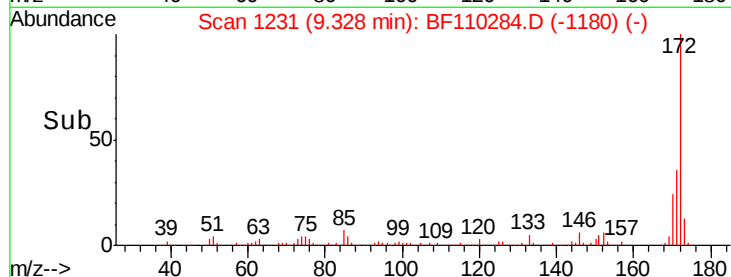
#45
2-Fluorobiphenyl
Concen: 82.503 ng
RT: 9.33 min Scan# 1231
Delta R.T. 0.00 min
Lab File: BF110284.D
Acq: 30 Oct 2018 1:21

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 1019286
Ion Ratio Lower Upper
172 100
171 35.6 28.6 43.0
170 23.7 19.7 29.5

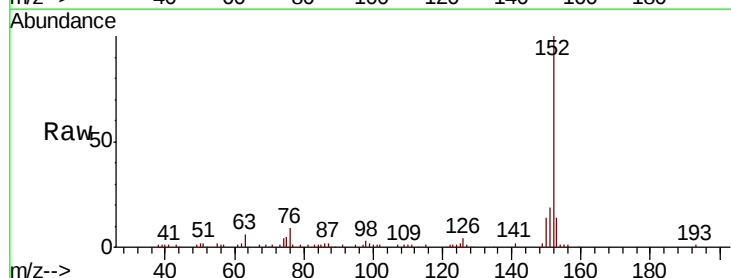


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

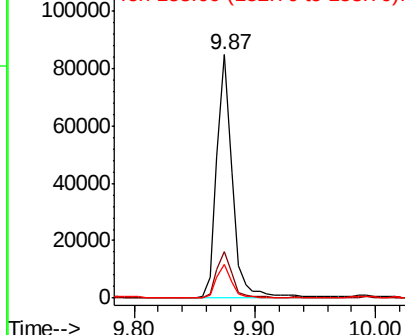
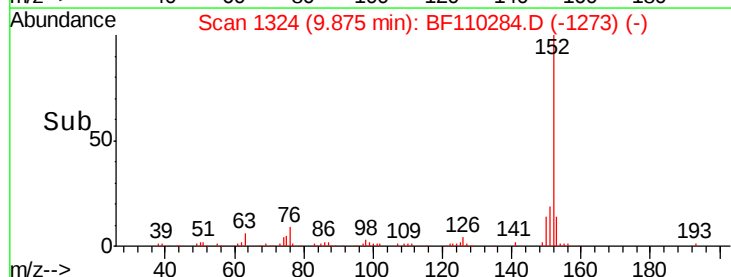


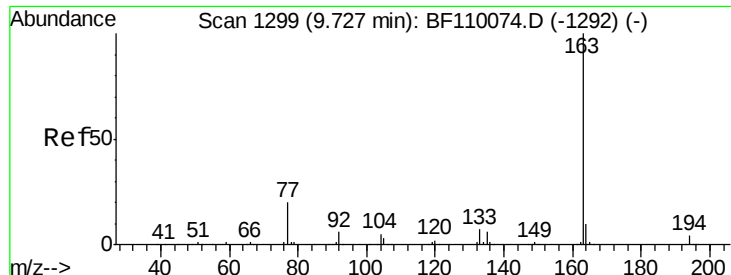
#49
Acenaphthylene
Concen: 4.067 ng
RT: 9.87 min Scan# 1324
Delta R.T. 0.00 min
Lab File: BF110284.D
Acq: 30 Oct 2018 1:21

Tgt Ion:152 Resp: 75587
Ion Ratio Lower Upper
152 100
151 19.2 15.8 23.8
153 13.7 10.4 15.6



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

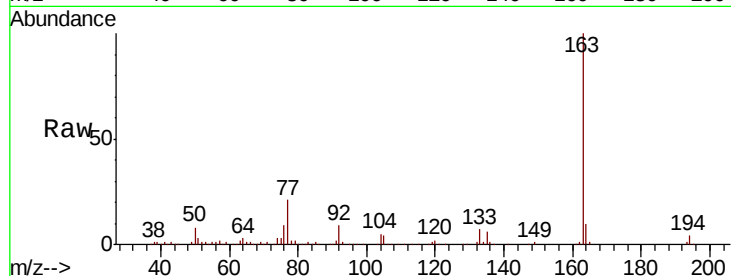




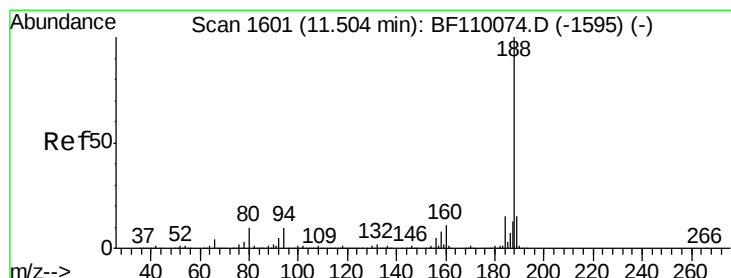
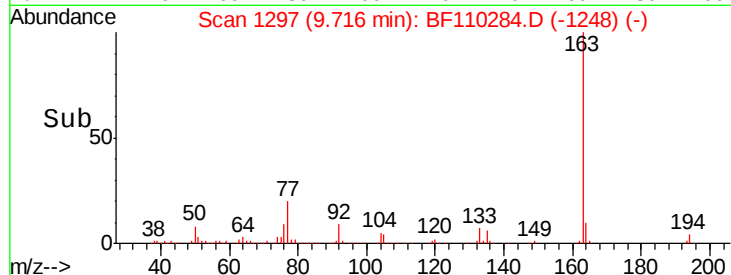
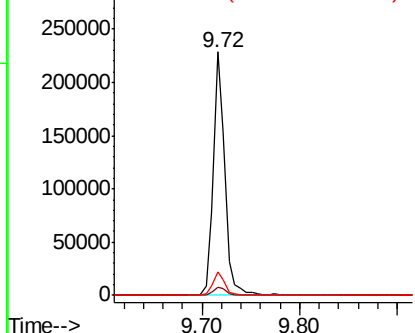
#50
Dimethylphthalate
Concen: 13.124 ng
RT: 9.72 min Scan# 1297
Delta R.T. -0.01 min
Lab File: BF110284.D
Acq: 30 Oct 2018 1:21

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.5	3.2	4.8
164	9.8	8.1	12.1

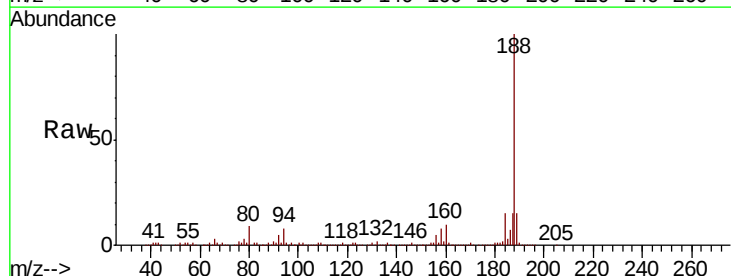


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

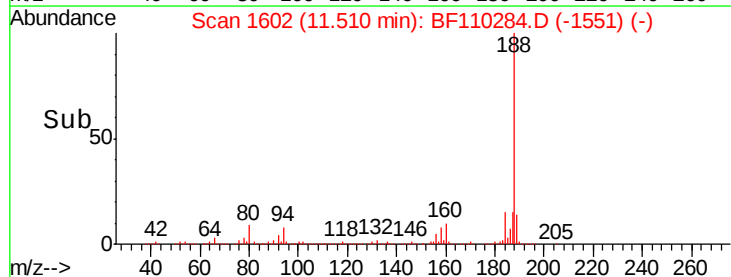
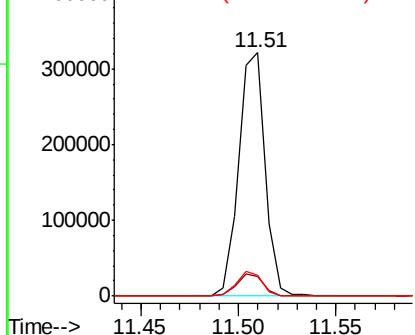


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.51 min Scan# 1602
Delta R.T. 0.00 min
Lab File: BF110284.D
Acq: 30 Oct 2018 1:21

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.1	7.2	10.8
80	8.7	7.9	11.9



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

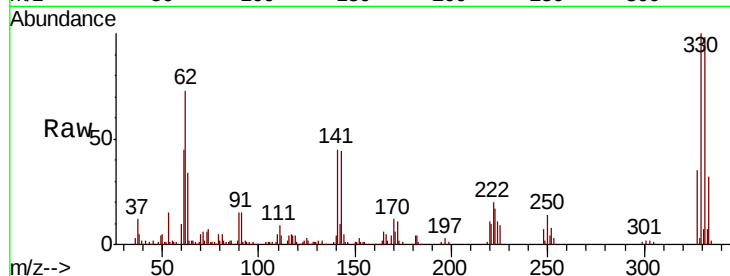




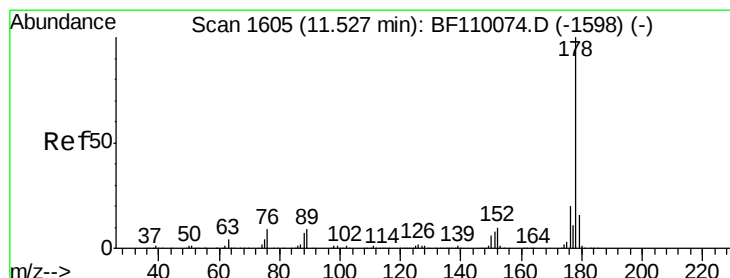
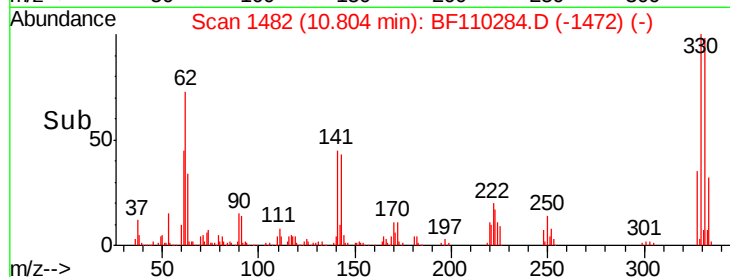
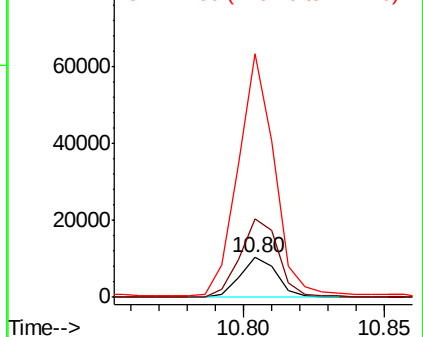
#67
4-Bromophenyl-phenylether
Concen: 2.904 ng
RT: 10.80 min Scan# 1482
Delta R.T. -0.24 min
Lab File: BF110284.D
Acq: 30 Oct 2018 1:21

Instrument :
BNA_F
ClientSampleId :

Tot Ion:248 Resp: 9525
Ion Ratio Lower Upper
248 100
250 197.9 79.4 119.2#
141 616.8 55.9 83.9#

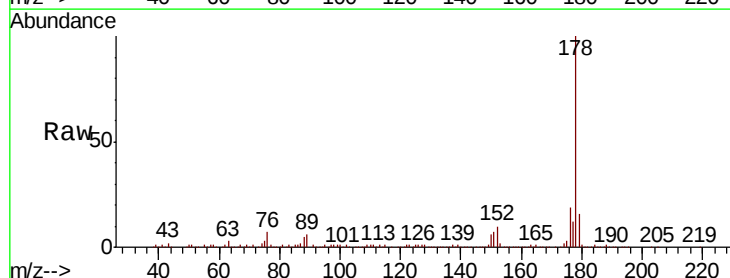


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

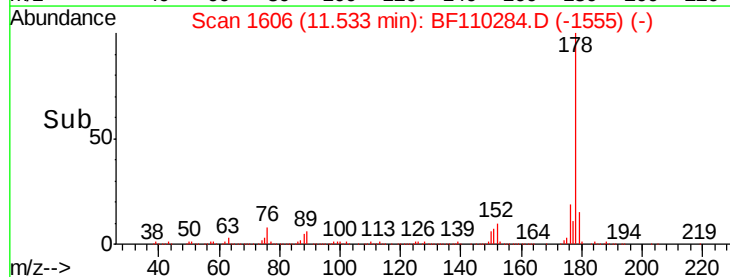
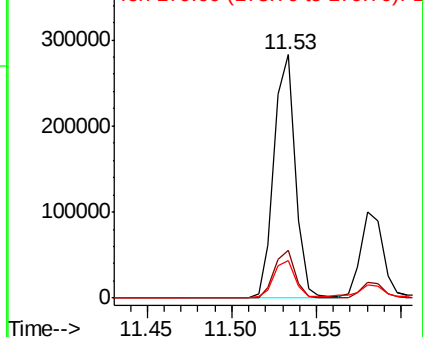


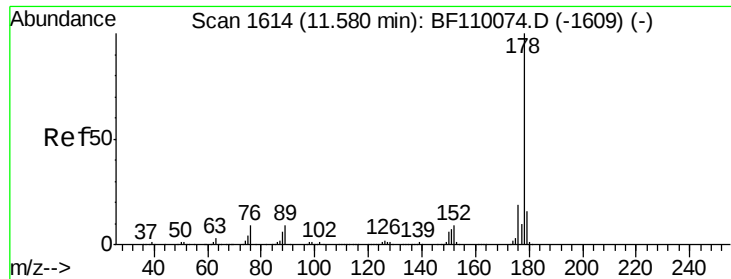
#71
Phenanthrene
Concen: 15.463 ng
RT: 11.53 min Scan# 1606
Delta R.T. 0.00 min
Lab File: BF110284.D
Acq: 30 Oct 2018 1:21

Tgt Ion:178 Resp: 244657
Ion Ratio Lower Upper
178 100
176 19.4 15.5 23.3
179 15.7 12.5 18.7



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

Anthracene

Concen: 5.556 ng

RT: 11.58 min Scan# 1614

Delta R.T. -0.01 min

Lab File: BF110284.D

Acq: 30 Oct 2018 1:21

Instrument :

BNA_F

ClientSampled :

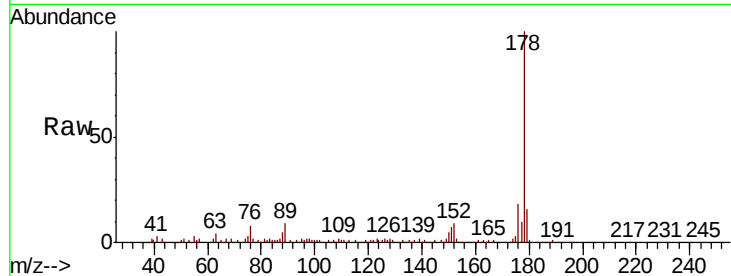
Tot Ion:178 Resp: 88119

Ion Ratio Lower Upper

178 100

176 18.0 15.4 23.2

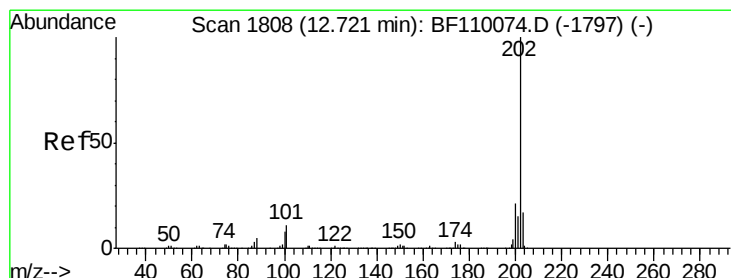
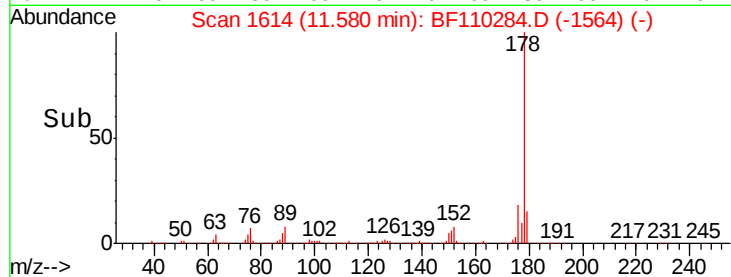
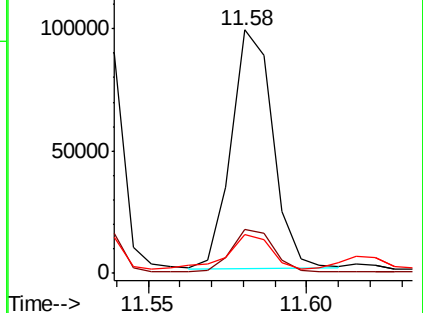
179 16.0 12.6 18.8



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



#75

Fluoranthene

Concen: 25.102 ng

RT: 12.73 min Scan# 1809

Delta R.T. 0.00 min

Lab File: BF110284.D

Acq: 30 Oct 2018 1:21

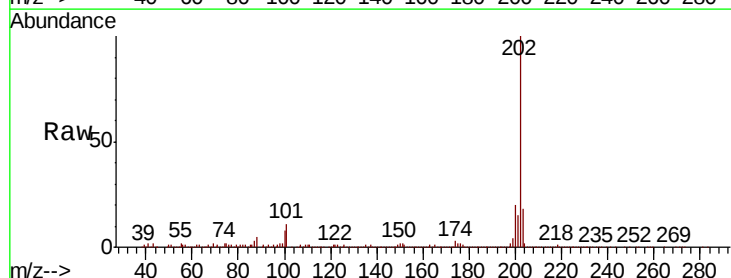
Tgt Ion:202 Resp: 403080

Ion Ratio Lower Upper

202 100

101 10.6 0.0 31.4

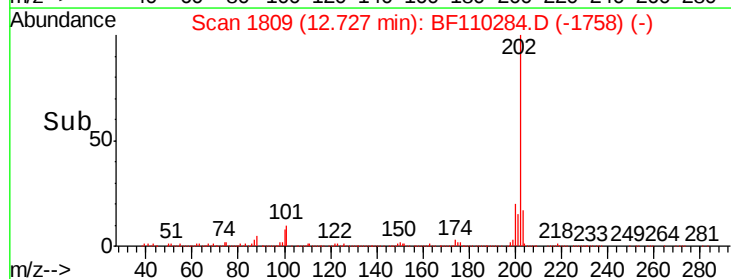
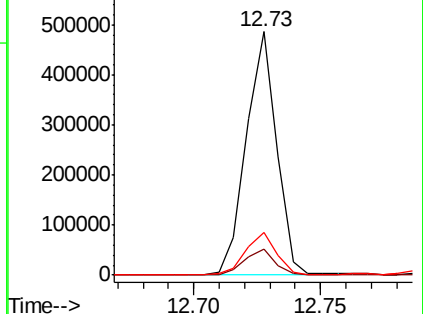
203 17.6 0.0 37.7

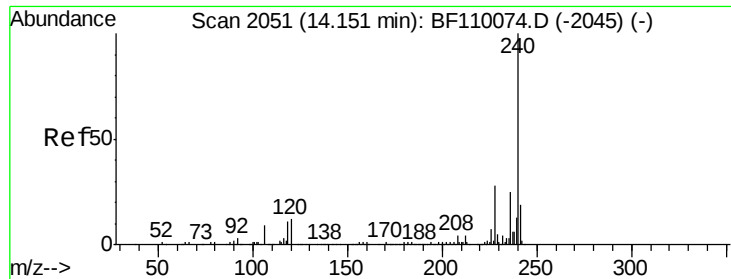


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.16 min Scan# 2052

Delta R.T. 0.00 min

Lab File: BF110284.D

Acq: 30 Oct 2018 1:21

Instrument :

BNA_F

ClientSampleId :

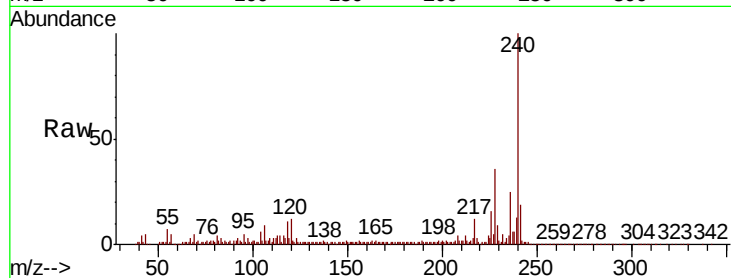
Tot Ion:240 Resp: 184729

Ion Ratio Lower Upper

240 100

120 12.0 8.3 12.5

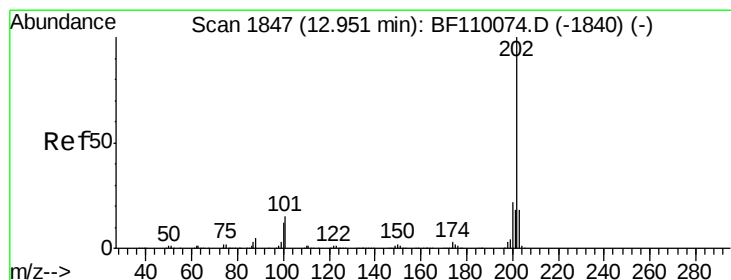
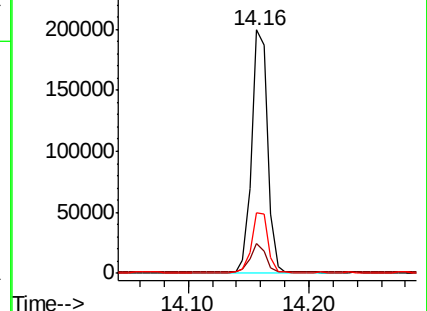
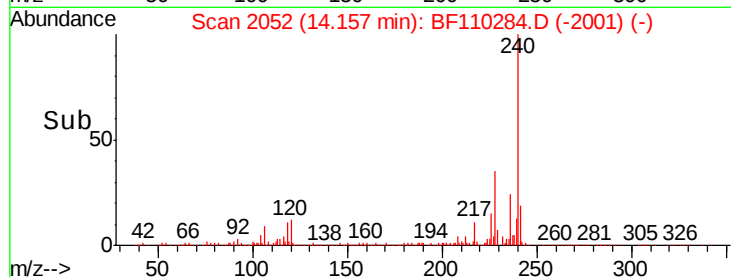
236 24.7 21.2 31.8



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



#78

Pyrene

Concen: 28.939 ng

RT: 12.96 min Scan# 1848

Delta R.T. 0.00 min

Lab File: BF110284.D

Acq: 30 Oct 2018 1:21

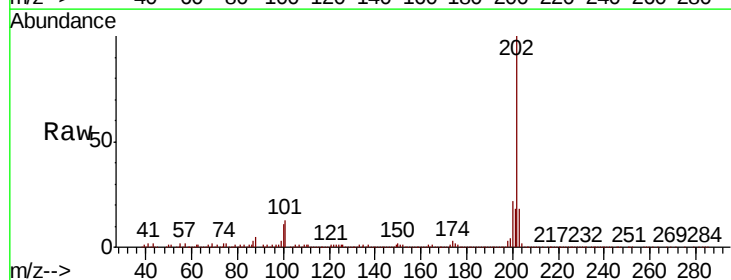
Tgt Ion:202 Resp: 383254

Ion Ratio Lower Upper

202 100

200 21.6 17.8 26.6

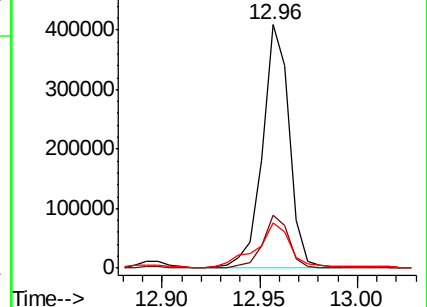
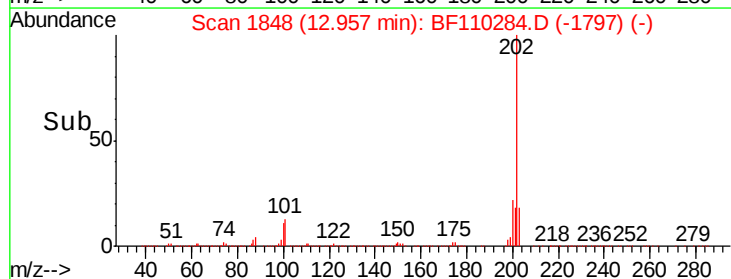
203 18.4 14.2 21.4

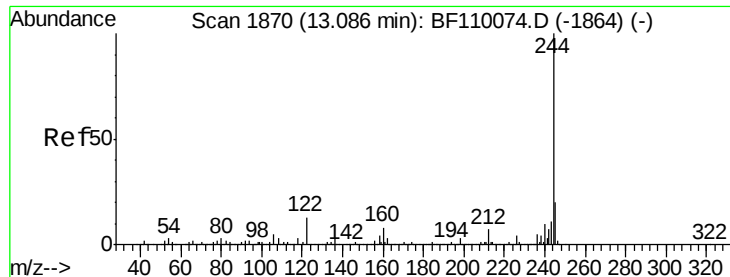


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 78.712 ng

RT: 13.09 min Scan# 1871

Delta R.T. 0.00 min

Lab File: BF110284.D

Acq: 30 Oct 2018 1:21

Instrument :

BNA_F

ClientSampled :

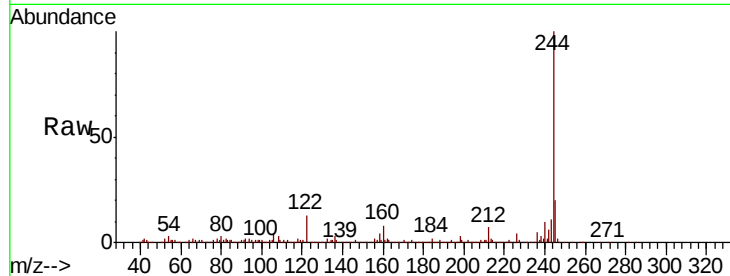
Tot Ion:244 Resp: 699151

Ion Ratio Lower Upper

244 100

212 7.1 5.8 8.8

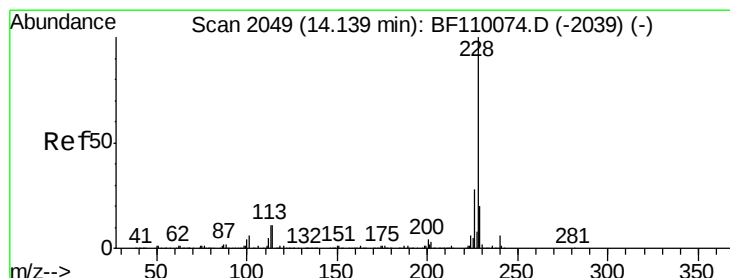
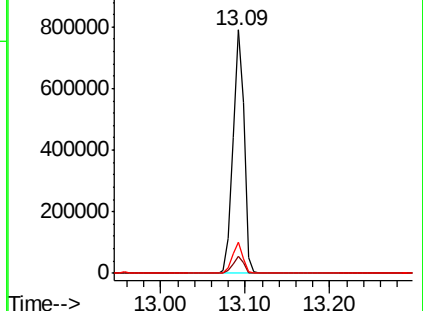
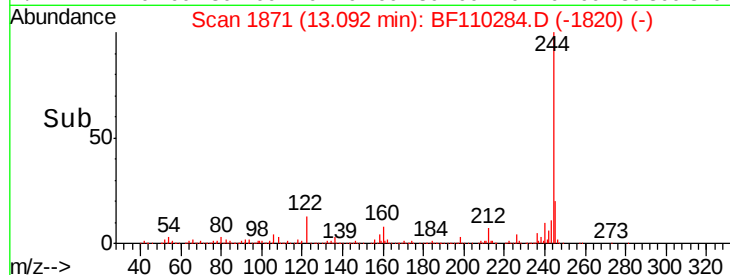
122 12.6 8.7 13.1



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



#81

Benzo(a)anthracene

Concen: 16.139 ng

RT: 14.15 min Scan# 2051

Delta R.T. 0.01 min

Lab File: BF110284.D

Acq: 30 Oct 2018 1:21

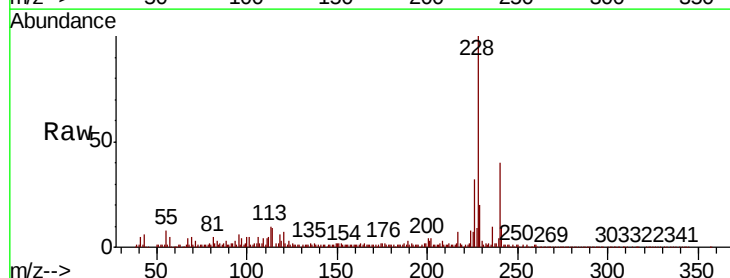
Tgt Ion:228 Resp: 176802

Ion Ratio Lower Upper

228 100

226 32.5 22.1 33.1

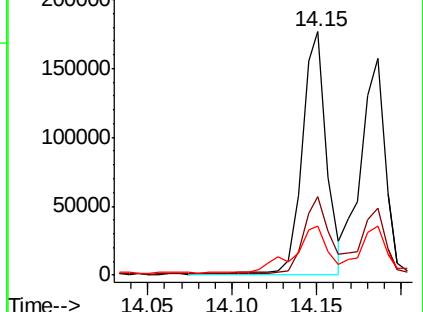
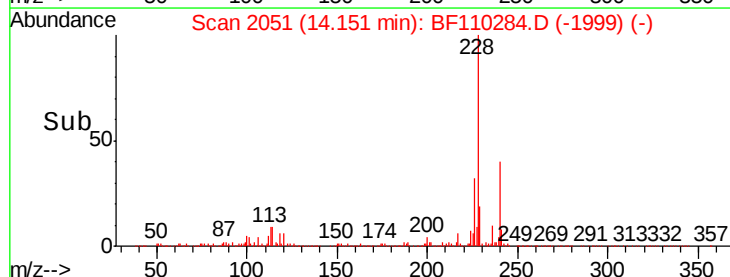
229 20.3 15.6 23.4

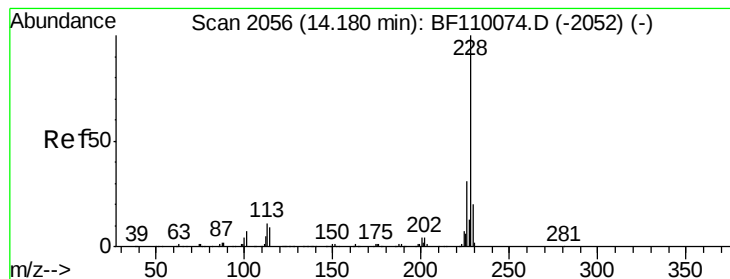


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 15.223 ng

RT: 14.19 min Scan# 2057

Delta R.T. 0.00 min

Lab File: BF110284.D

Acq: 30 Oct 2018 1:21

Instrument :

BNA_F

ClientSampleId :

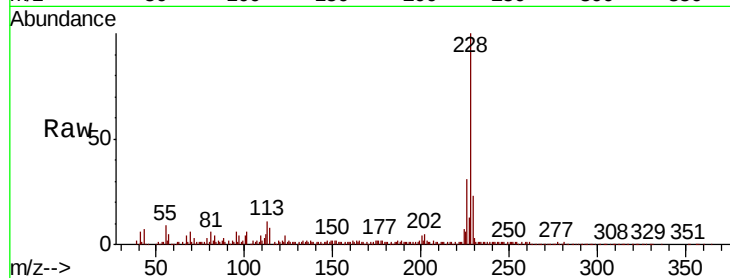
Tot Ion:228 Resp: 158398

Ion Ratio Lower Upper

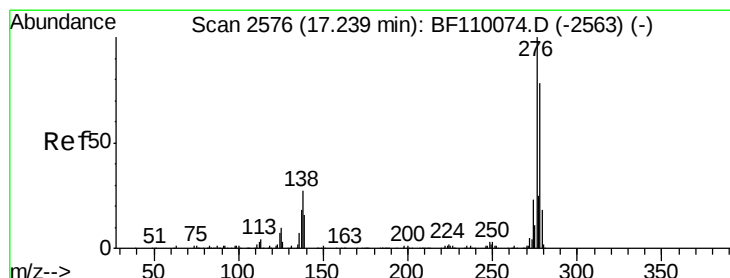
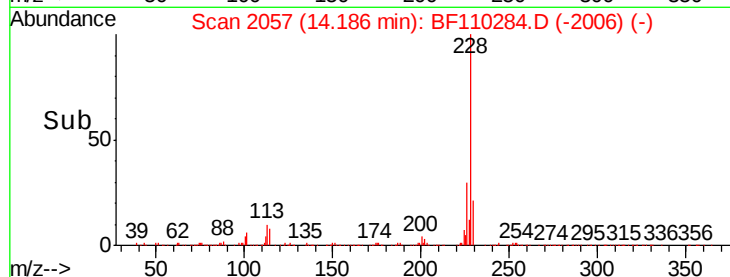
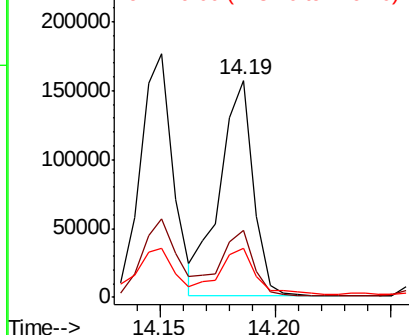
228 100

226 30.8 24.7 37.1

229 22.5 15.9 23.9



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 8.846 ng

RT: 17.27 min Scan# 2581

Delta R.T. 0.01 min

Lab File: BF110284.D

Acq: 30 Oct 2018 1:21

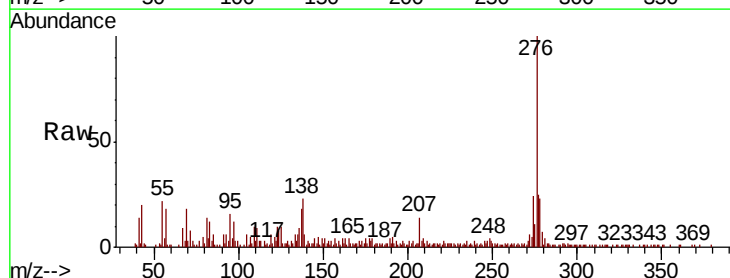
Tgt Ion:276 Resp: 76354

Ion Ratio Lower Upper

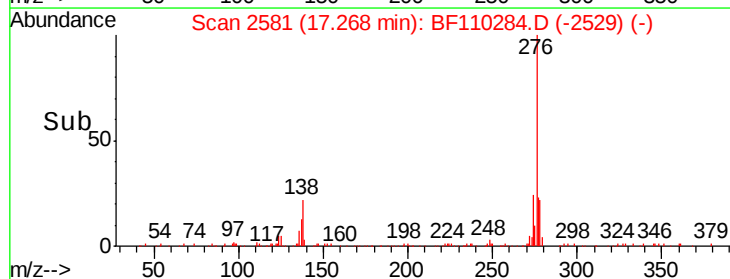
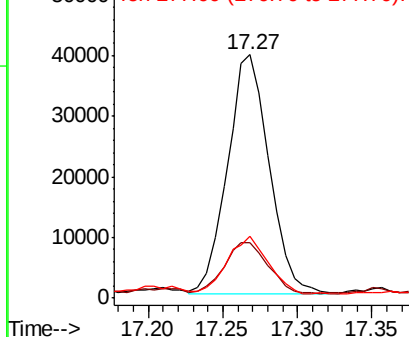
276 100

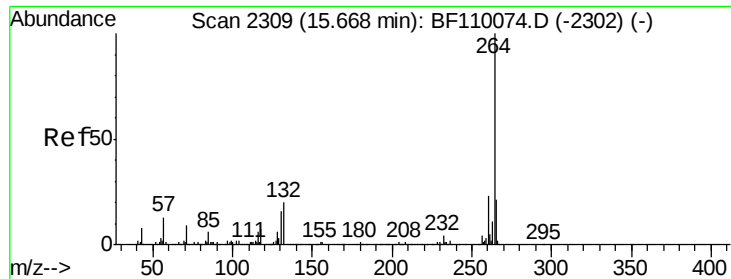
138 22.6 18.5 27.7

277 24.6 20.0 30.0



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





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.69 min Scan# 2313

Delta R.T. 0.01 min

Lab File: BF110284.D

Acq: 30 Oct 2018 1:21

Instrument :

BNA_F

ClientSampled :

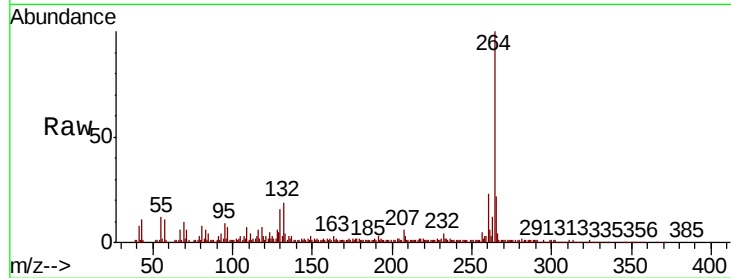
Tot Ion:264 Resp: 139681

Ion Ratio Lower Upper

264 100

260 23.1 18.7 28.1

265 22.4 16.7 25.1

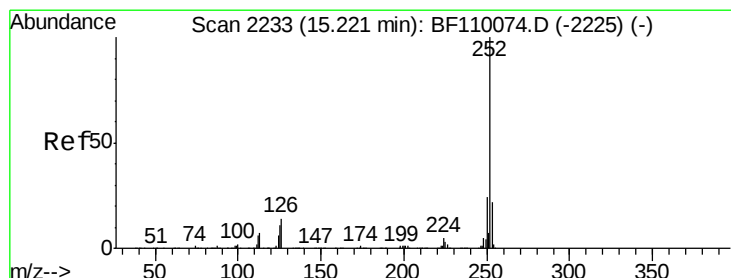
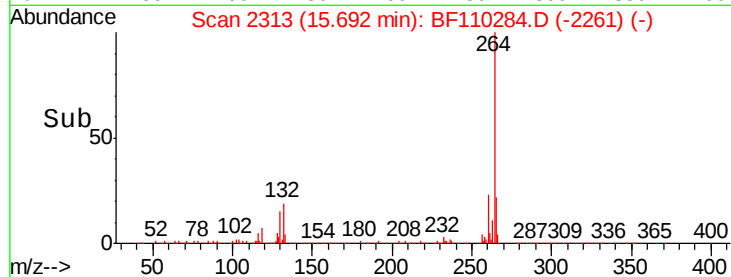
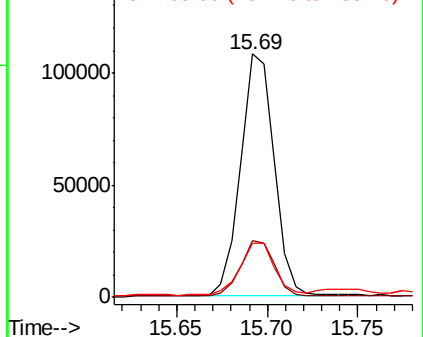


Abundance

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



#88

Benzo(b)fluoranthene

Concen: 28.675 ng

RT: 15.24 min Scan# 2236

Delta R.T. 0.01 min

Lab File: BF110284.D

Acq: 30 Oct 2018 1:21

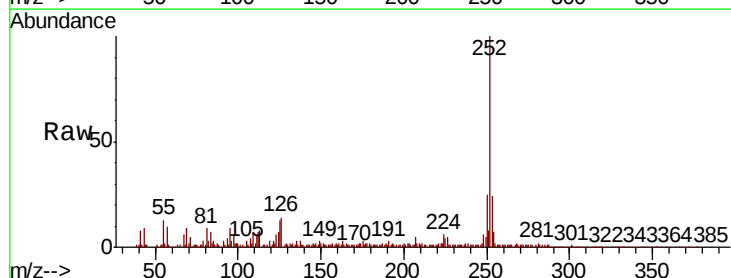
Tgt Ion:252 Resp: 231293

Ion Ratio Lower Upper

252 100

253 24.3 17.2 25.8

125 12.8 8.2 12.4#

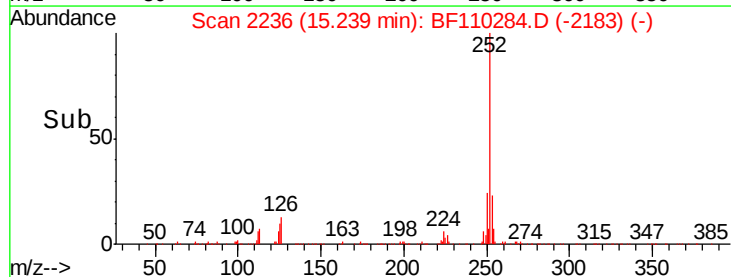
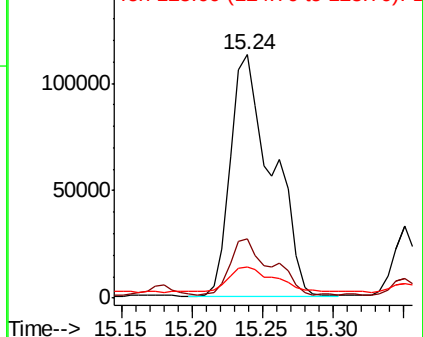


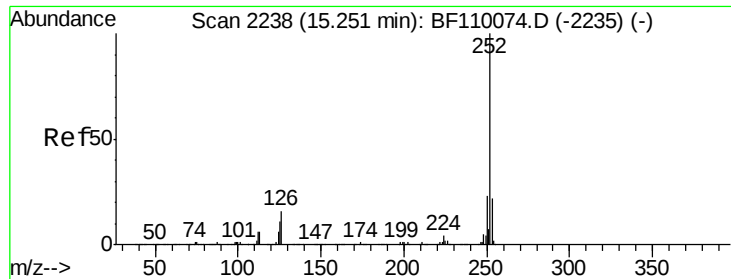
Abundance

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

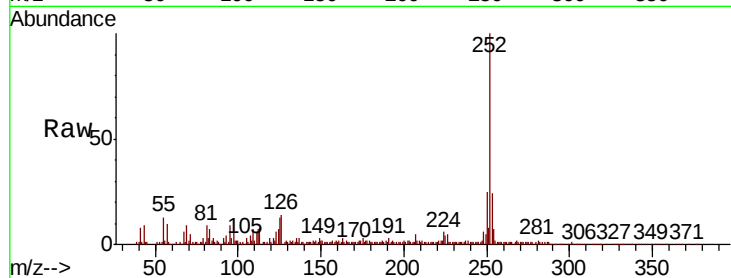




#89
Benzo(k)fluoranthene
Concen: 29.168 ng
RT: 15.24 min Scan# 2236
Delta R.T. -0.02 min
Lab File: BF110284.D
Acq: 30 Oct 2018 1:21

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.2	25.8
125	12.8	7.4	11.0

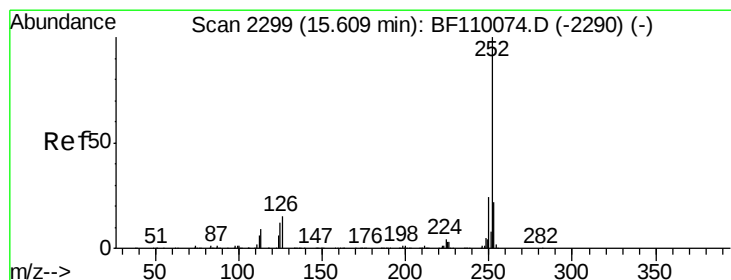
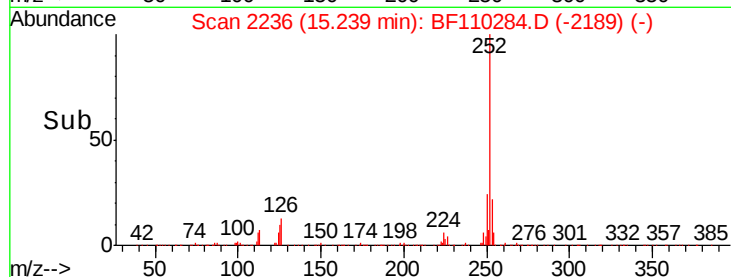
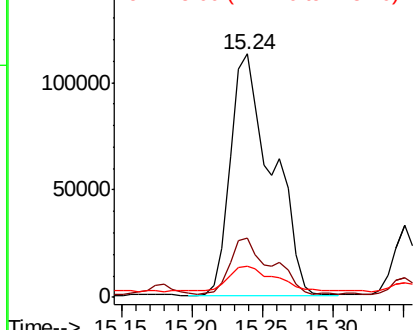


Abundance

Ion 252.00 (251.70 to 252.70): E

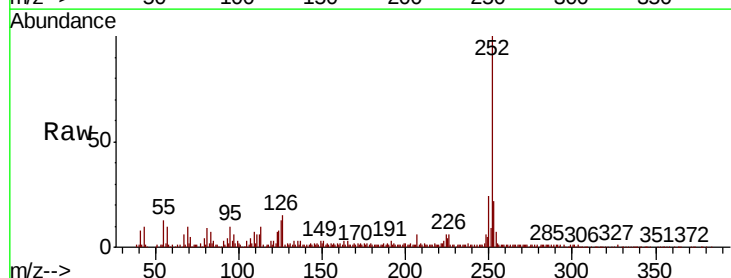
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90
Benzo(a)pyrene
Concen: 17.480 ng
RT: 15.63 min Scan# 2302
Delta R.T. 0.01 min
Lab File: BF110284.D
Acq: 30 Oct 2018 1:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.2	27.4
125	12.8	9.0	13.6

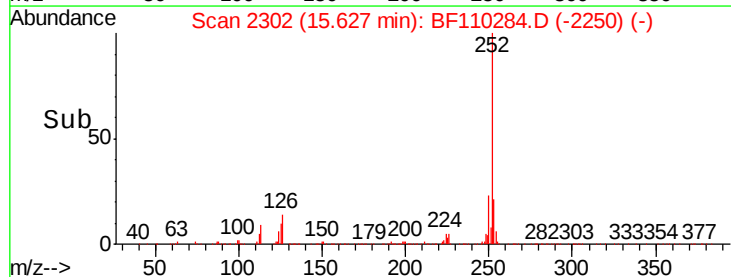
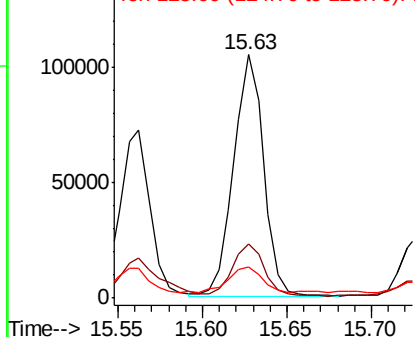


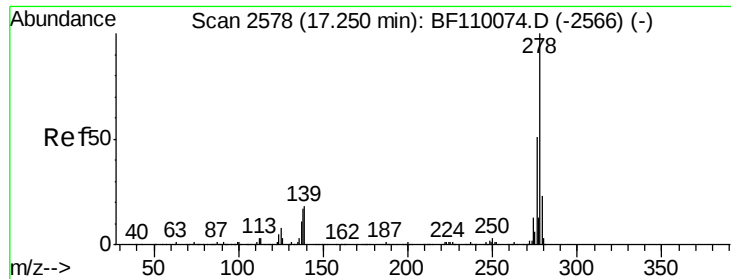
Abundance

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

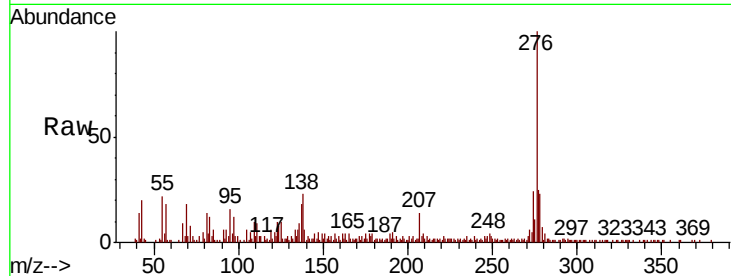




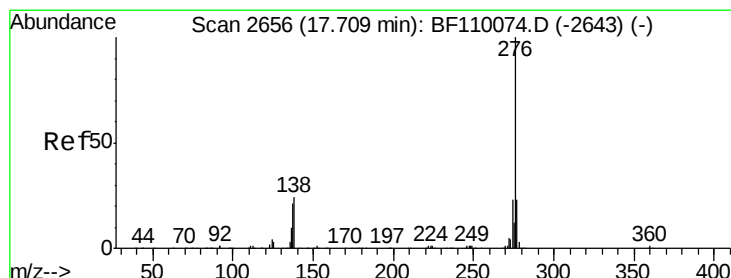
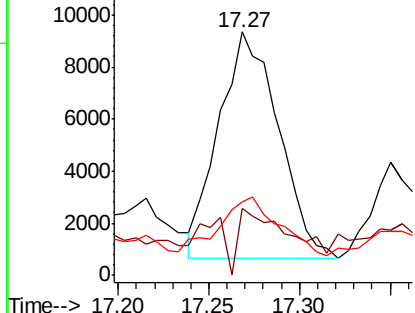
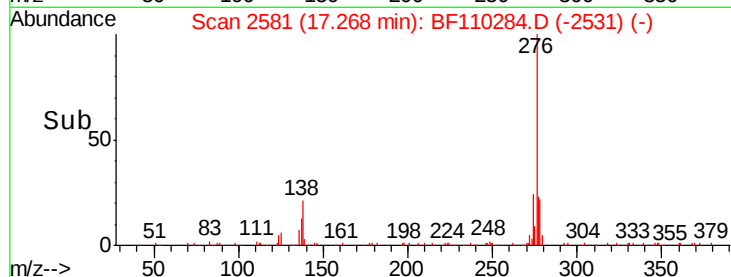
#91
 Dibenzo(a,h)anthracene
 Concen: 3.103 ng
 RT: 17.27 min Scan# 2581
 Delta R.T. -0.01 min
 Lab File: BF110284.D
 Acq: 30 Oct 2018 1:21

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:278 Resp: 19872
 Ion Ratio Lower Upper
 278 100
 139 27.4 12.7 19.1#
 279 29.9 19.0 28.4#

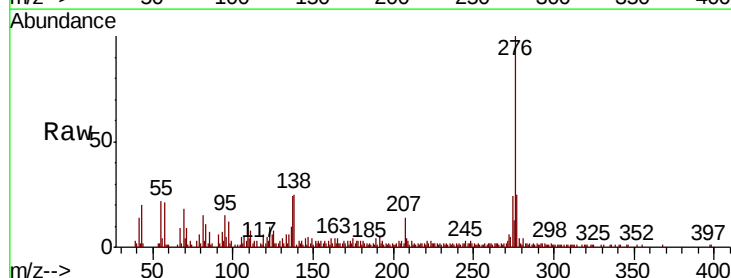


Abundance Ion 278.00 (277.70 to 278.70): E
 Ion 139.00 (138.70 to 139.70): E
 Ion 279.00 (278.70 to 279.70): E



#92
 Benzo(g,h,i)perylene
 Concen: 13.005 ng
 RT: 17.75 min Scan# 2663
 Delta R.T. 0.01 min
 Lab File: BF110284.D
 Acq: 30 Oct 2018 1:21

Tgt Ion:276 Resp: 82071
 Ion Ratio Lower Upper
 276 100
 277 25.4 18.8 28.2
 138 24.6 16.0 24.0#



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

