

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111919\
 Data File : BF117880.D
 Acq On : 20 Nov 2019 3:54
 Operator : JU
 Sample : K5908-03
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

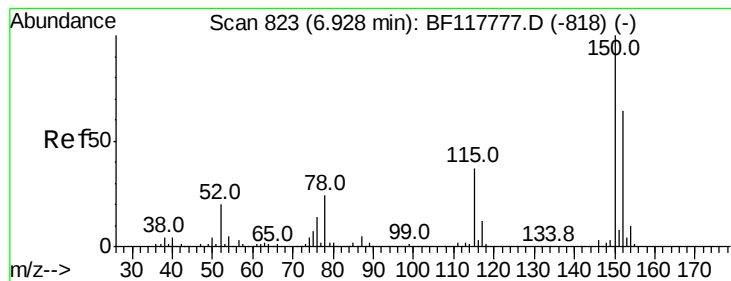
Quant Time: Nov 20 05:37:48 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 18:36:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.92	152	156063	20.00	ng	-0.01
21) Naphthalene-d8	8.20	136	592886	20.00	ng	-0.01
39) Acenaphthene-d10	9.96	164	277832	20.00	ng	-0.01
64) Phenanthrene-d10	11.46	188	448824	20.00	ng	-0.01
76) Chrysene-d12	14.10	240	393289	20.00	ng	-0.01
87) Perylene-d12	15.62	264	313204	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.53	112	959017	108.77	ng	0.00
7) Phenol-d6	6.54	99	1225180	115.21	ng	0.00
23) Nitrobenzene-d5	7.47	82	751593	75.36	ng	-0.02
42) 2,4,6-Tribromophenol	10.76	330	284843	96.84	ng	-0.01
45) 2-Fluorobiphenyl	9.28	172	1399267	90.35	ng	-0.01
79) Terphenyl-d14	13.04	244	1474279	68.51	ng	-0.01

Target Compounds				Qvalue		
9) Benzaldehyde	6.54	77	2997	Below Cal	#	1
10) Phenol	6.55	94	67906	6.145	ng	83
19) n-Nitroso-di-n-propylamine	7.47	70	104358	15.907	ng	# 76
25) Isophorone	7.47	82	745856	40.802	ng	# 62
50) Dimethylphthalate	9.67	163	256685	13.175	ng	99
56) 4-Nitrophenol	10.17	139	15255	4.011	ng	# 9
57) 2,4-Dinitrotoluene	9.96	165	38060	7.027	ng	# 25
58) Fluorene	10.52	166	39563	2.328	ng	97
67) 4-Bromophenyl-phenylether	10.76	248	17970	3.711	ng	# 1
71) Phenanthrene	11.48	178	547586	24.267	ng	97
72) Anthracene	11.53	178	101438	4.534	ng	99
73) Carbazole	11.69	167	54520	2.789	ng	99
75) Fluoranthene	12.67	202	661425	29.616	ng	99
78) Pyrene	12.90	202	488402	15.366	ng	99
81) Benzo(a)anthracene	14.09	228	263133	10.125	ng	99
83) Chrysene	14.13	228	236230	9.380	ng	97
86) Indeno(1,2,3-cd)pyrene	17.14	276	71122	3.318	ng	95
88) Benzo(b)fluoranthene	15.16	252	292354	14.367	ng	97
89) Benzo(k)fluoranthene	15.16	252	292354	15.248	ng	# 96
90) Benzo(a)pyrene	15.54	252	127822	7.143	ng	96
92) Benzo(a,h,i)perylene	17.60	276	58544	3.816	ng	97

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

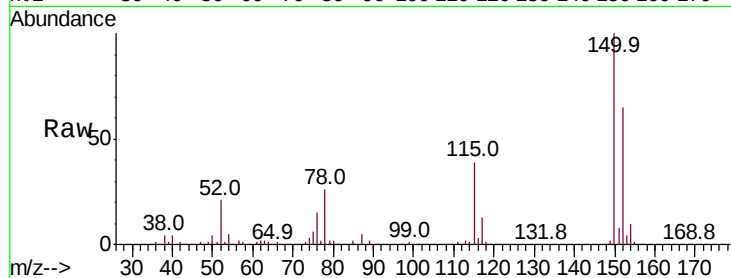


#1

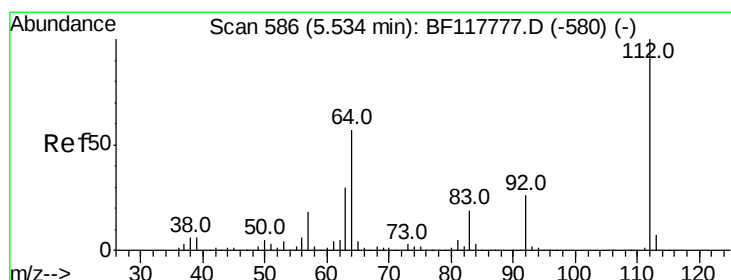
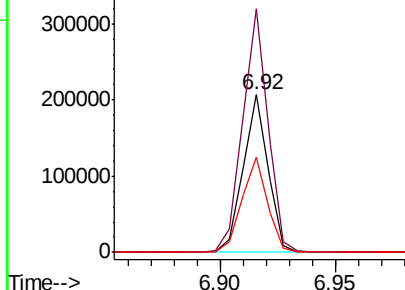
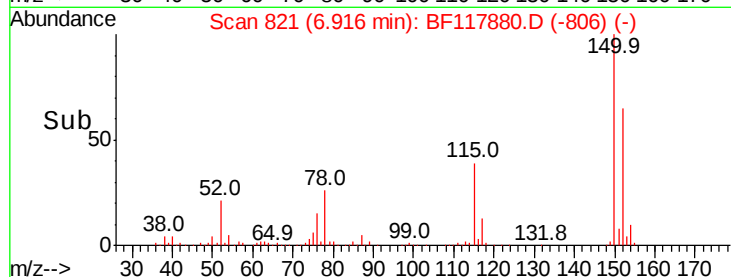
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.92 min Scan# 821
Delta R.T. -0.01 min
Lab File: BF117880.D
Acq: 20 Nov 2019 3:54

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 156063
Ion Ratio Lower Upper
152 100
150 154.9 125.3 187.9
115 60.7 47.0 70.4



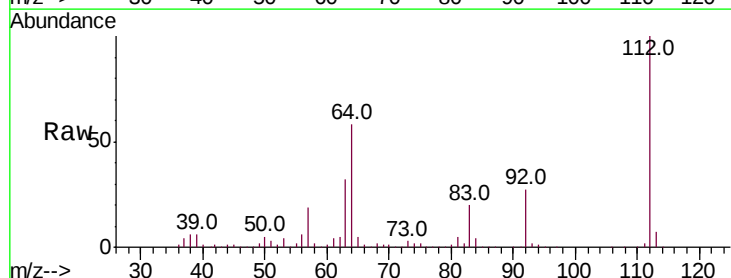
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



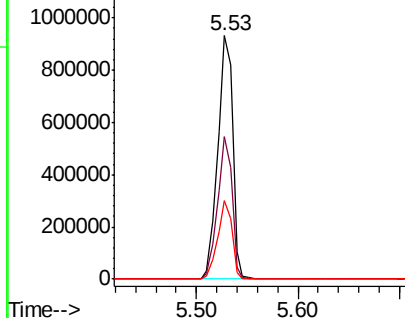
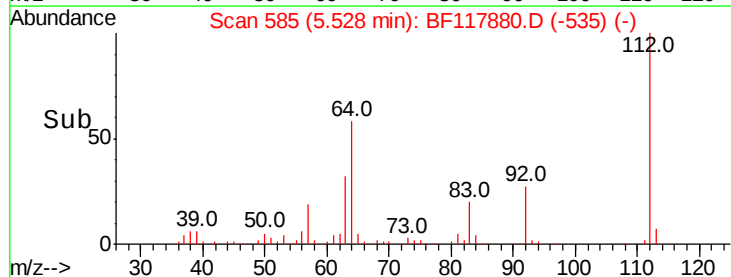
#5

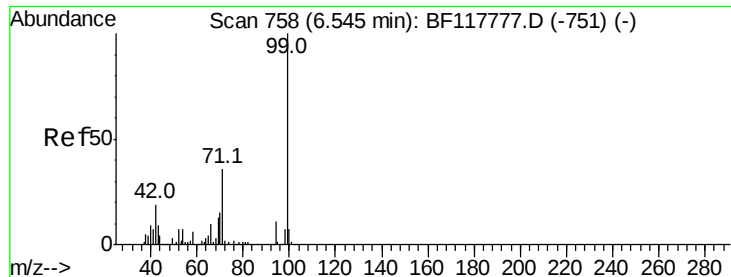
2-Fluorophenol
Concen: 108.774 ng
RT: 5.53 min Scan# 585
Delta R.T. -0.01 min
Lab File: BF117880.D
Acq: 20 Nov 2019 3:54

Tgt Ion:112 Resp: 959017
Ion Ratio Lower Upper
112 100
64 58.5 45.6 68.4
63 32.3 24.1 36.1



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: 115.211 ng

RT: 6.54 min Scan# 757

Delta R.T. -0.01 min

Lab File: BF117880.D

Acq: 20 Nov 2019 3:54

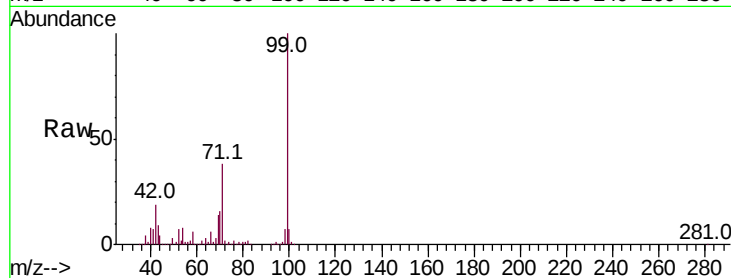
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 1225180

Ion	Ratio	Lower	Upper
99	100		
42	18.9	14.9	22.3
71	37.7	28.6	43.0

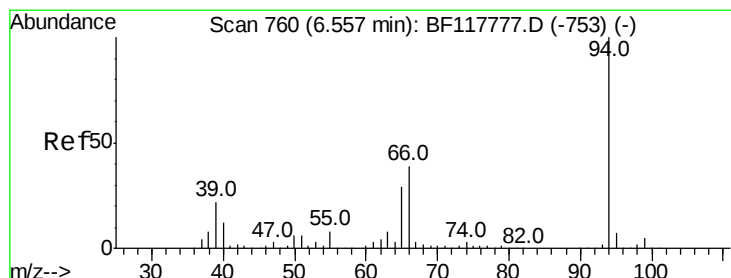
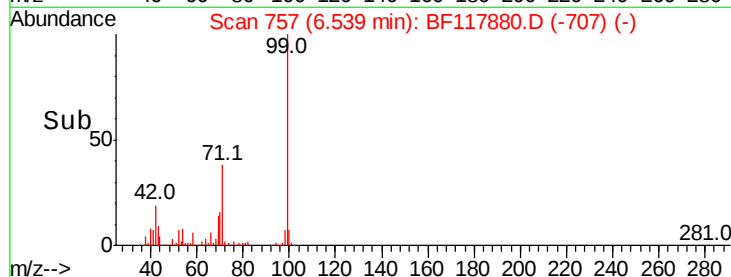
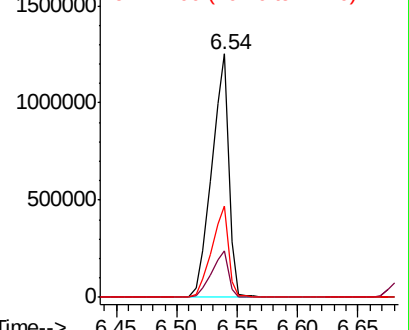


Abundance

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: 6.145 ng

RT: 6.55 min Scan# 758

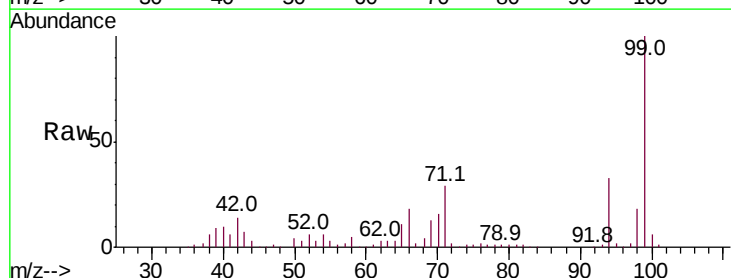
Delta R.T. -0.01 min

Lab File: BF117880.D

Acq: 20 Nov 2019 3:54

Tgt Ion: 94 Resp: 67906

Ion	Ratio	Lower	Upper
94	100		
65	33.2	8.9	48.9
66	53.5	18.7	58.7

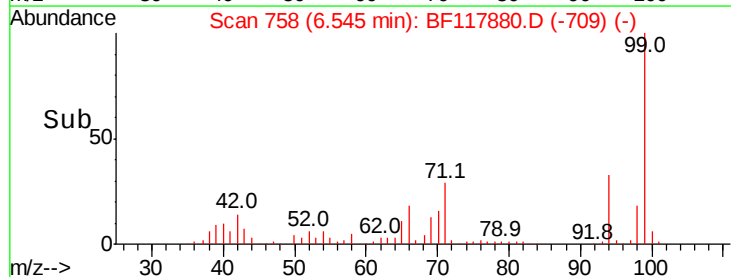
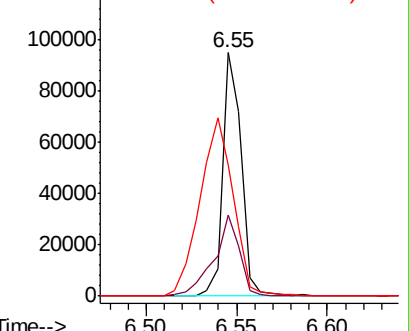


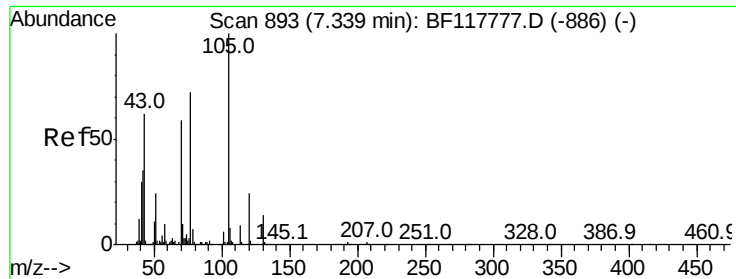
Abundance

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

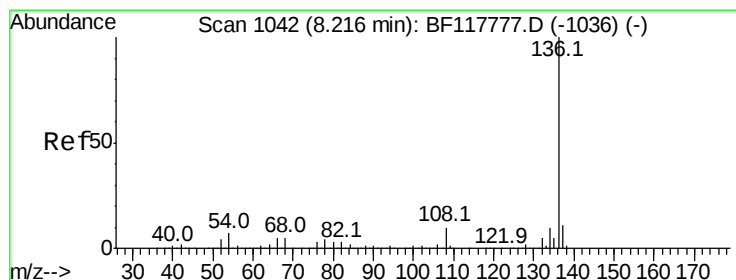
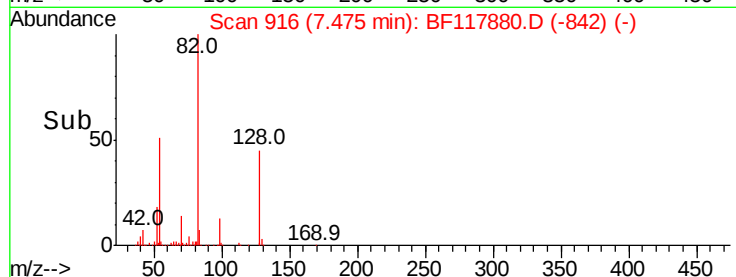
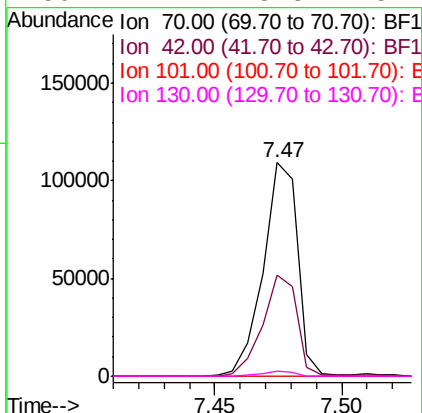
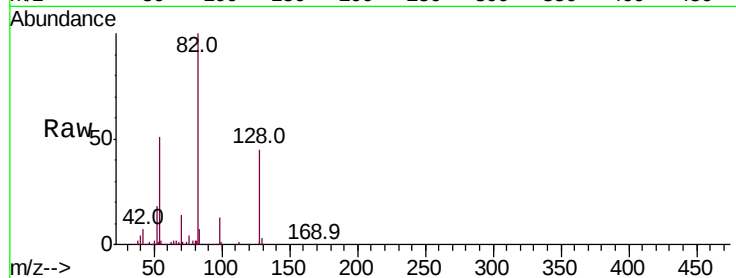




#19
n-Nitroso-di-n-propylamine
Concen: 15.907 ng
RT: 7.47 min Scan# 916
Delta R.T. 0.14 min
Lab File: BF117880.D
Acq: 20 Nov 2019 3:54

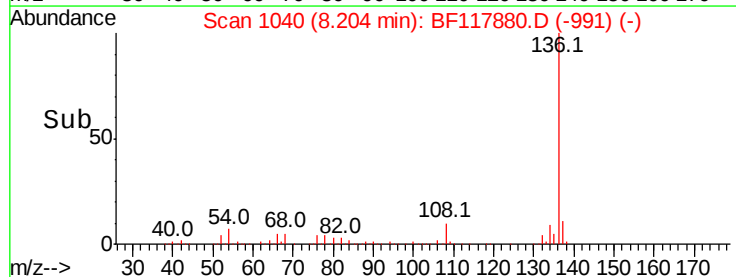
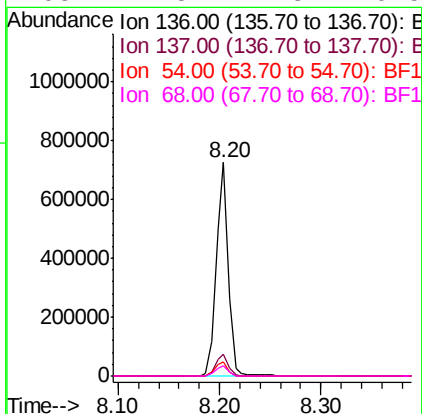
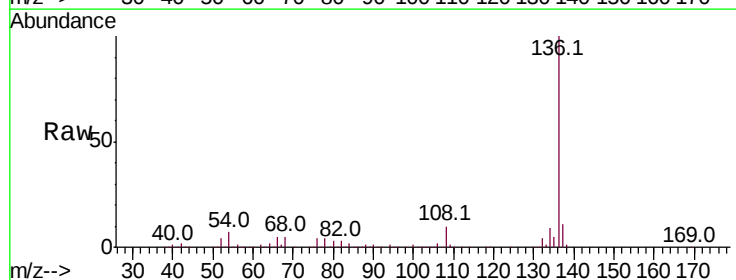
Instrument :
BNA_F
ClientSampleId :

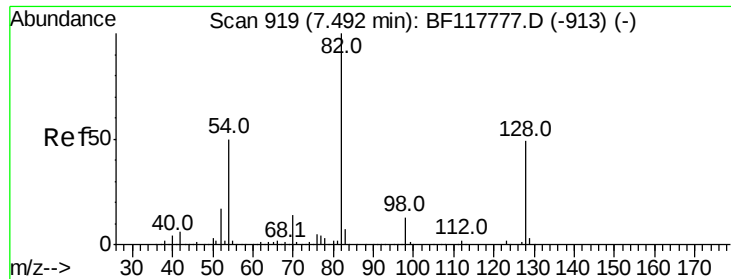
Tot Ion: 70 Resp: 104358
Ion Ratio Lower Upper
70 100
42 47.1 47.4 71.2#
101 0.0 8.4 12.6#
130 2.1 18.8 28.2#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.20 min Scan# 1040
Delta R.T. -0.01 min
Lab File: BF117880.D
Acq: 20 Nov 2019 3:54

Tgt Ion: 136 Resp: 592886
Ion Ratio Lower Upper
136 100
137 10.5 9.0 13.4
54 6.6 5.4 8.2
68 4.8 4.3 6.5

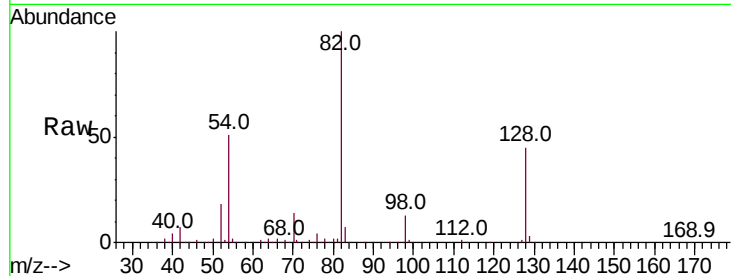




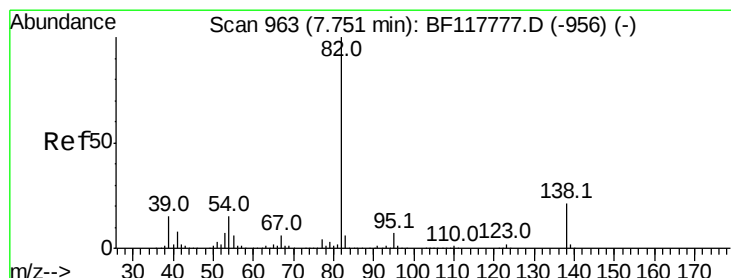
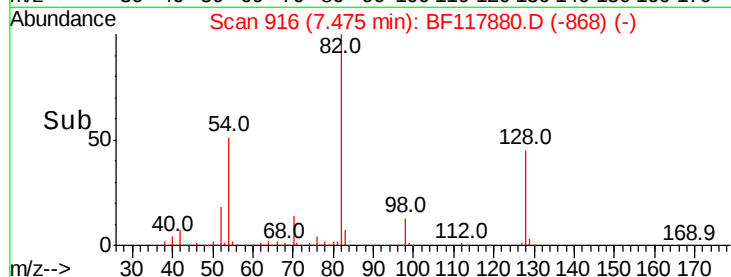
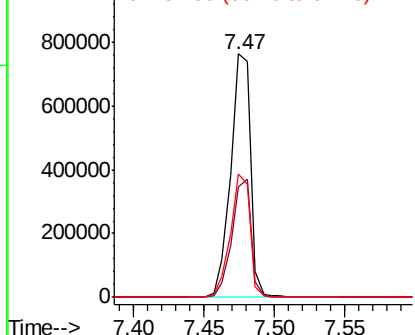
#23
Nitrobenzene-d5
Concen: 75.359 ng
RT: 7.47 min Scan# 916
Delta R.T. -0.02 min
Lab File: BF117880.D
Acq: 20 Nov 2019 3:54

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.4	38.9	58.3
54	50.8	39.8	59.6

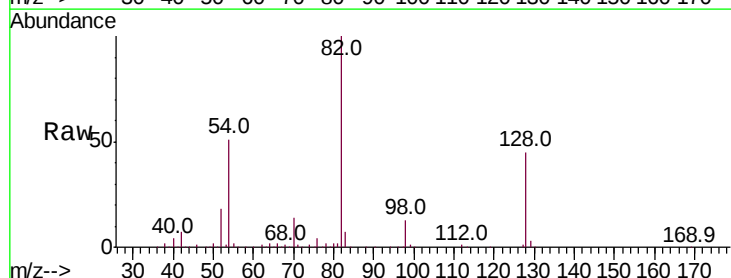


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

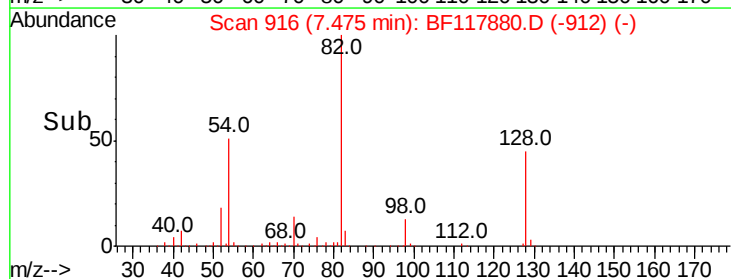
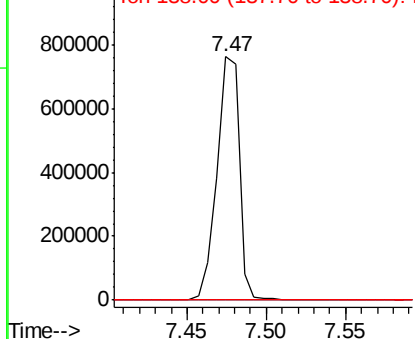


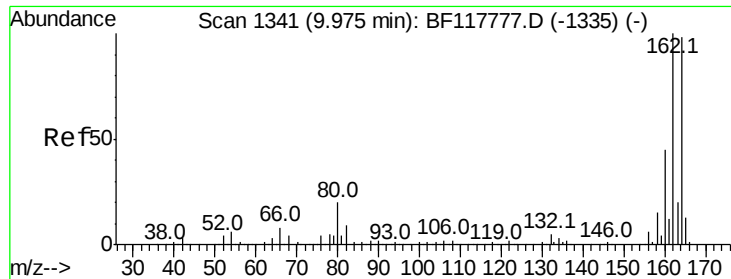
#25
Isophorone
Concen: 40.802 ng
RT: 7.47 min Scan# 916
Delta R.T. -0.28 min
Lab File: BF117880.D
Acq: 20 Nov 2019 3:54

Tgt Ion	Ratio	Lower	Upper
82	100		
95	0.0	5.8	8.8#
138	0.0	16.5	24.7#



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: 9.96 min Scan# 1339

Delta R.T. -0.01 min

Lab File: BF117880.D

Acq: 20 Nov 2019 3:54

Instrument :

BNA_F

ClientSampleId :

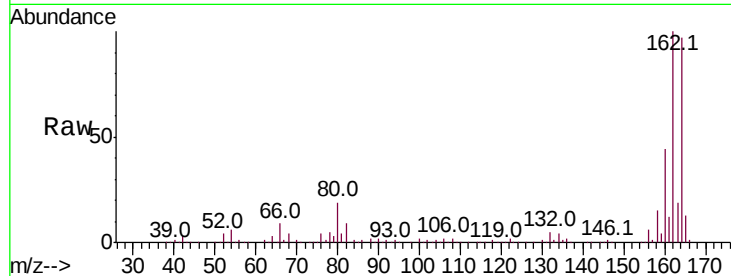
Tot Ion:164 Resp: 277832

Ion Ratio Lower Upper

164 100

162 102.7 81.3 121.9

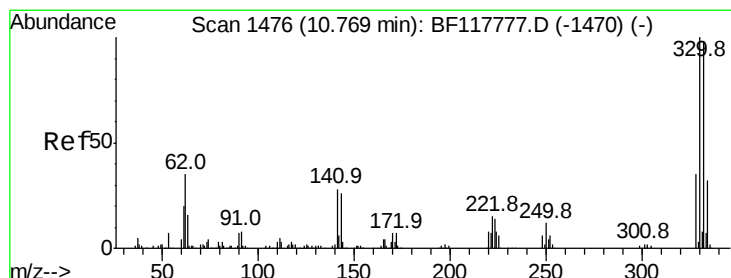
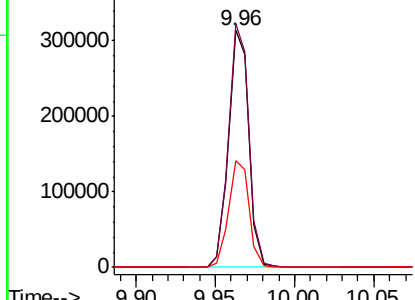
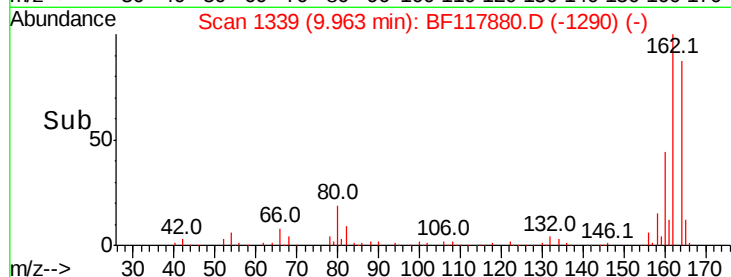
160 44.9 36.6 55.0



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: 96.840 ng

RT: 10.76 min Scan# 1474

Delta R.T. -0.01 min

Lab File: BF117880.D

Acq: 20 Nov 2019 3:54

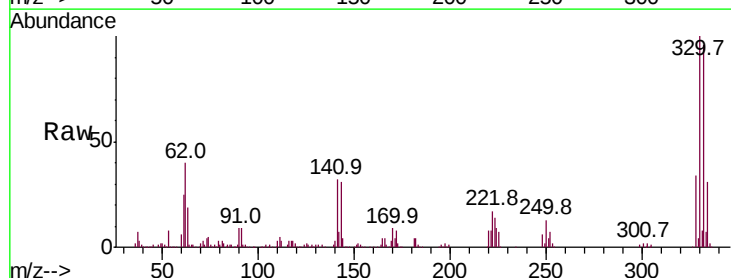
Tgt Ion:330 Resp: 284843

Ion Ratio Lower Upper

330 100

332 95.7 76.7 115.1

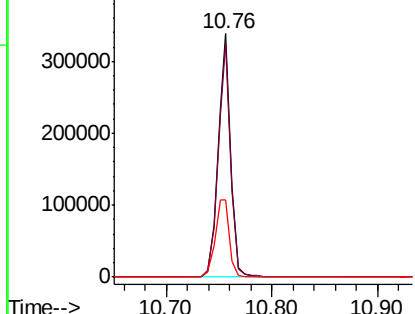
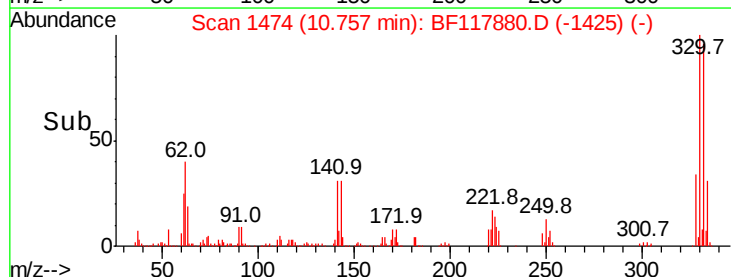
141 37.0 27.7 41.5

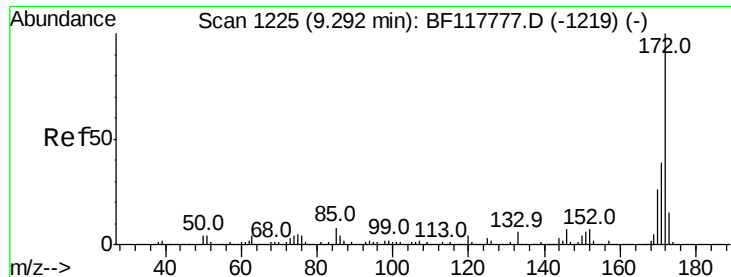


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

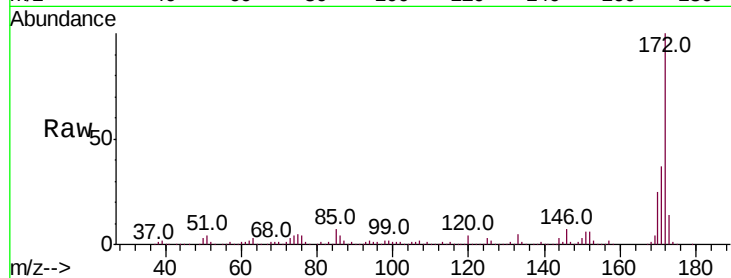




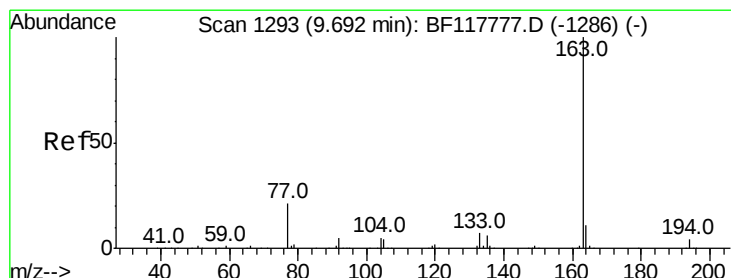
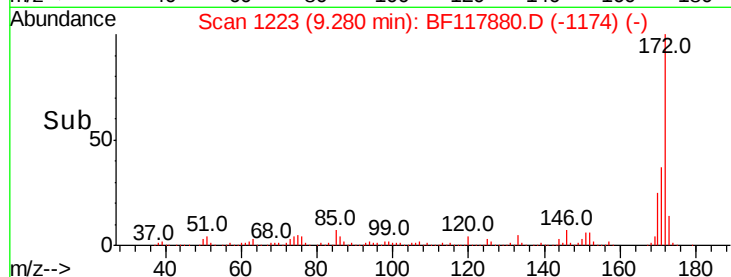
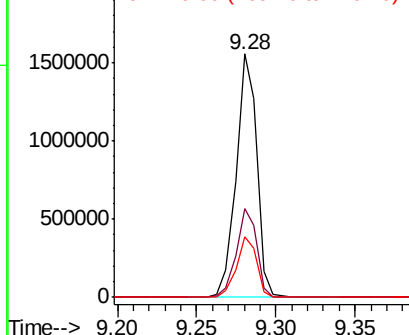
#45
2-Fluorobiphenyl
Concen: 90.354 ng
RT: 9.28 min Scan# 1223
Delta R.T. -0.01 min
Lab File: BF117880.D
Acq: 20 Nov 2019 3:54

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 1399267
Ion Ratio Lower Upper
172 100
171 36.6 30.9 46.3
170 24.9 21.0 31.4

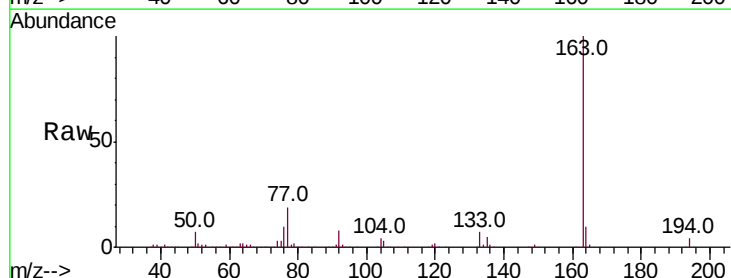


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

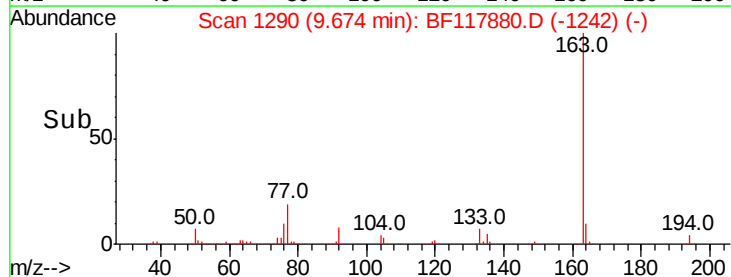
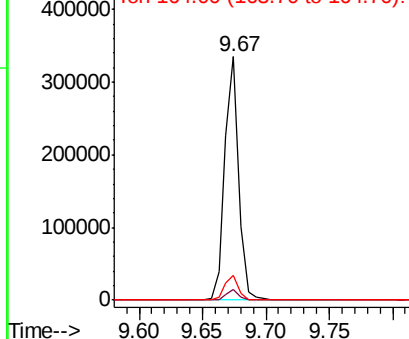


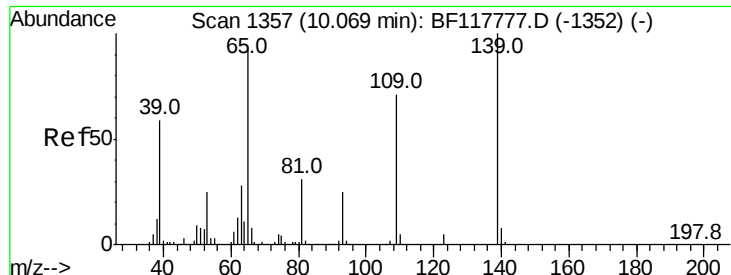
#50
Dimethylphthalate
Concen: 13.175 ng
RT: 9.67 min Scan# 1290
Delta R.T. -0.02 min
Lab File: BF117880.D
Acq: 20 Nov 2019 3:54

Tgt Ion:163 Resp: 256685
Ion Ratio Lower Upper
163 100
194 4.2 3.3 4.9
164 10.2 8.7 13.1



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

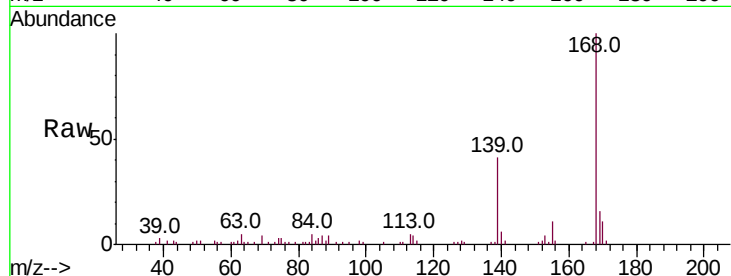




#56
4-Nitrophenol
Concen: 4.011 ng
RT: 10.17 min Scan# 1374
Delta R.T. 0.10 min
Lab File: BF117880.D
Acq: 20 Nov 2019 3:54

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
139	100		
109	0.0	50.8	90.8#
65	1.9	73.6	113.6#

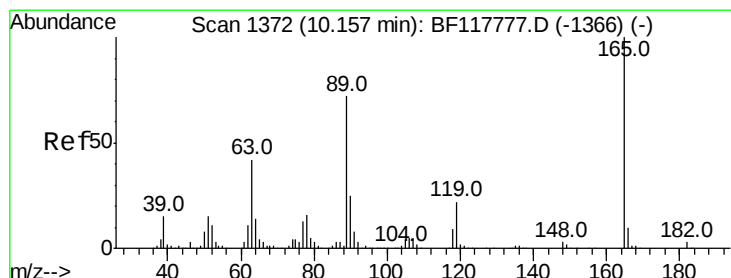
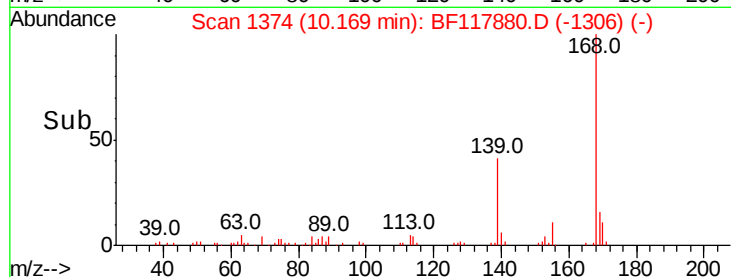
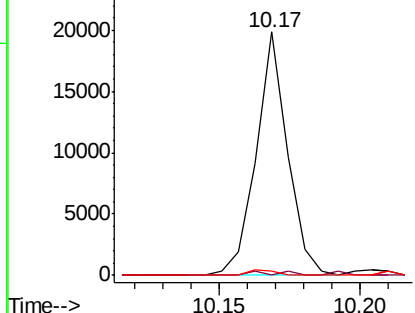


Abundance

Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1



#57
2,4-Dinitrotoluene
Concen: 7.027 ng
RT: 9.96 min Scan# 1339
Delta R.T. -0.19 min
Lab File: BF117880.D
Acq: 20 Nov 2019 3:54

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.9	33.7	50.5#
89	1.2	57.3	85.9#
182	0.0	2.3	3.5#

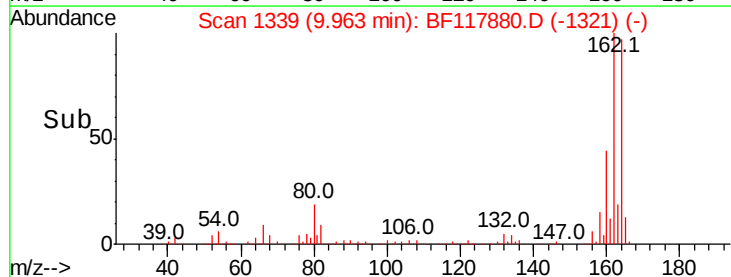
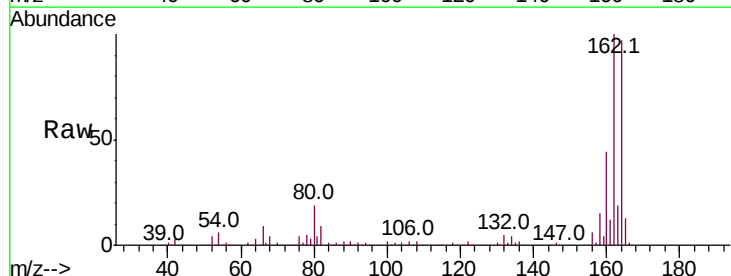
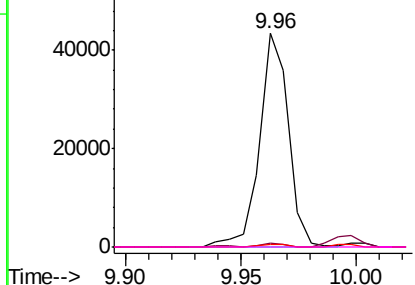
Abundance

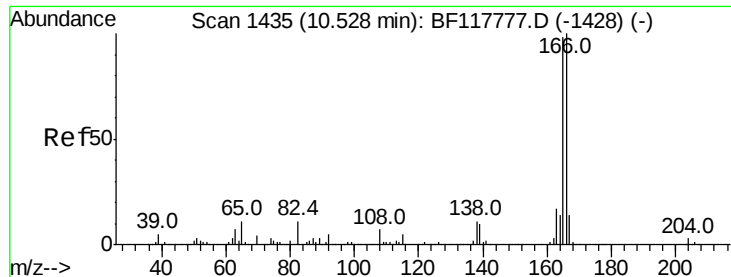
Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E





#58

Fluorene

Concen: 2.328 ng

RT: 10.52 min Scan# 1433

Delta R.T. -0.01 min

Lab File: BF117880.D

Acq: 20 Nov 2019 3:54

Instrument :

BNA_F

ClientSampleId :

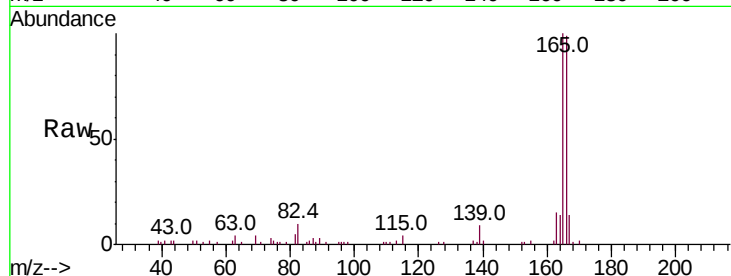
Tot Ion:166 Resp: 39563

Ion Ratio Lower Upper

166 100

165 101.1 78.4 117.6

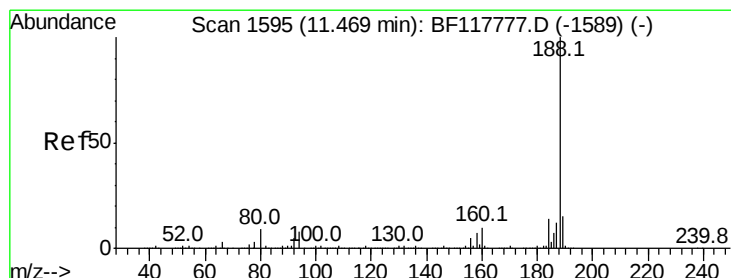
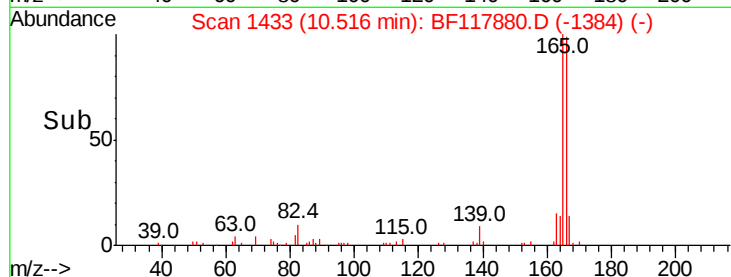
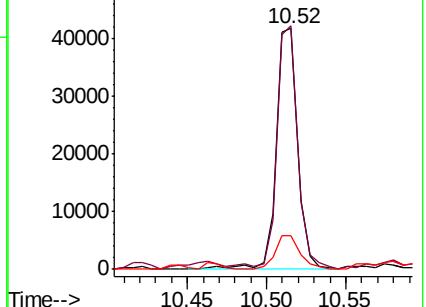
167 14.0 11.0 16.4



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.46 min Scan# 1593

Delta R.T. -0.01 min

Lab File: BF117880.D

Acq: 20 Nov 2019 3:54

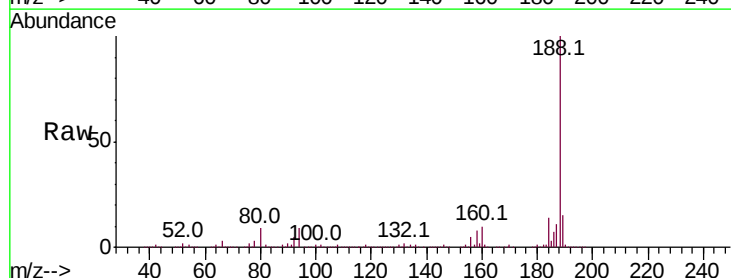
Tgt Ion:188 Resp: 448824

Ion Ratio Lower Upper

188 100

94 8.6 6.6 10.0

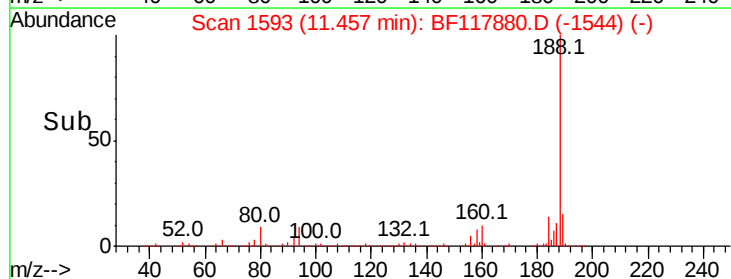
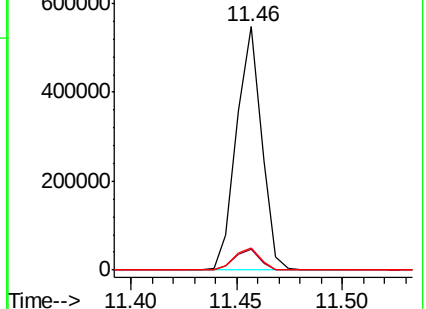
80 8.9 7.2 10.8

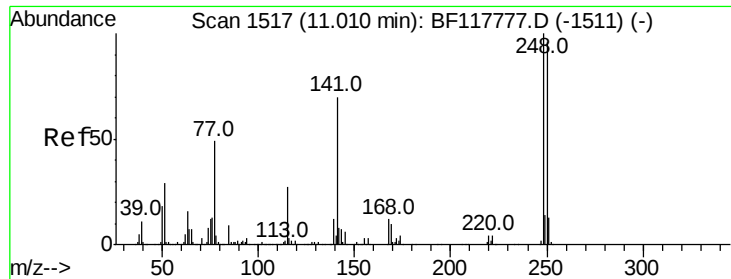


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

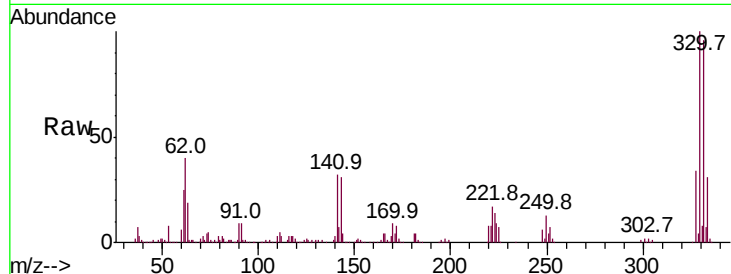




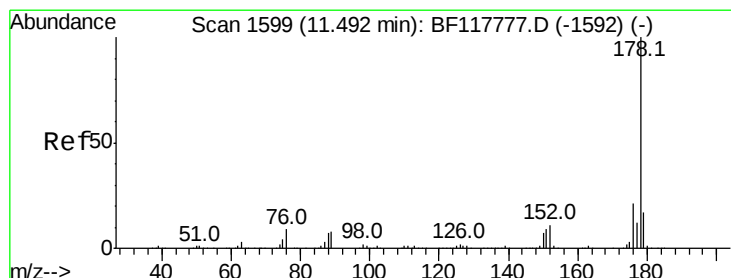
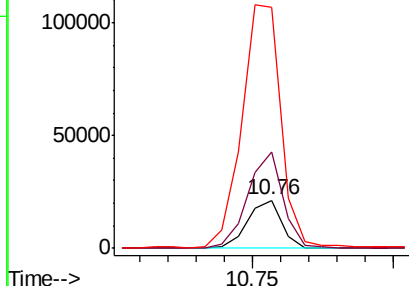
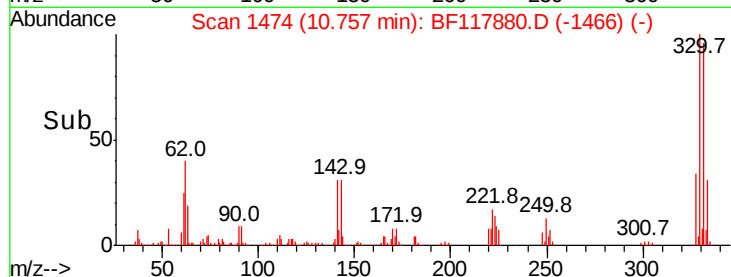
#67
 4-Bromophenyl-phenylether
 Concen: 3.711 ng
 RT: 10.76 min Scan# 1474
 Delta R.T. -0.25 min
 Lab File: BF117880.D
 Acq: 20 Nov 2019 3:54

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:248 Resp: 17970
 Ion Ratio Lower Upper
 248 100
 250 199.1 76.6 115.0#
 141 501.7 55.9 83.9#

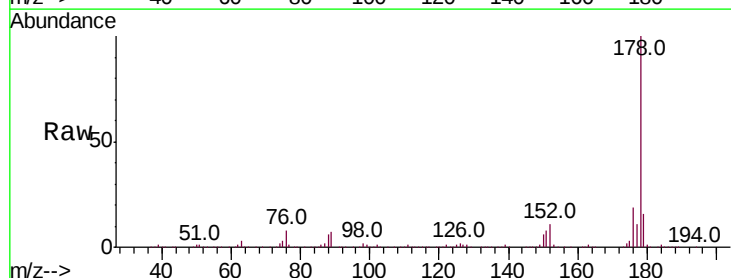


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

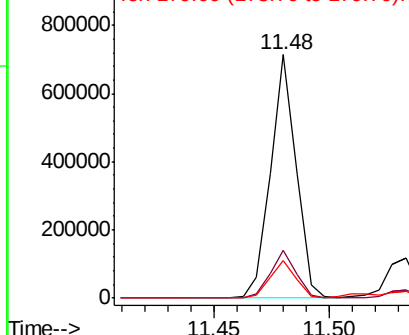
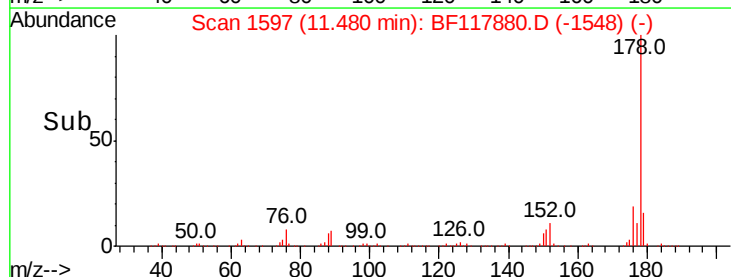


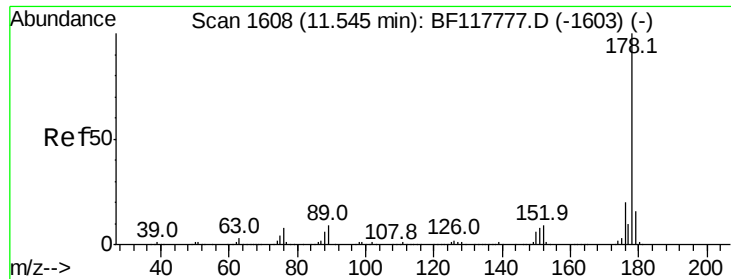
#71
 Phenanthrene
 Concen: 24.267 ng
 RT: 11.48 min Scan# 1597
 Delta R.T. -0.01 min
 Lab File: BF117880.D
 Acq: 20 Nov 2019 3:54

Tgt Ion:178 Resp: 547586
 Ion Ratio Lower Upper
 178 100
 176 19.4 16.6 25.0
 179 15.6 13.2 19.8



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





#72

Anthracene

Concen: 4.534 ng

RT: 11.53 min Scan# 1606

Delta R.T. -0.01 min

Lab File: BF117880.D

Acq: 20 Nov 2019 3:54

Instrument :

BNA_F

ClientSampleId :

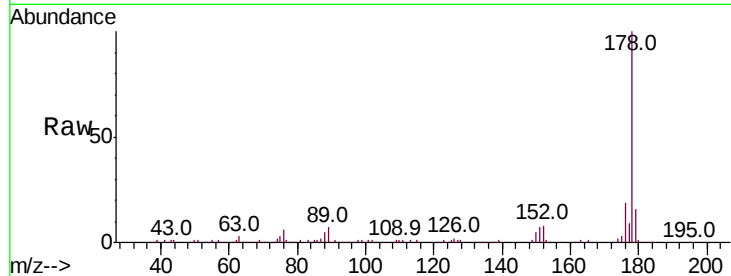
Tot Ion:178 Resp: 101438

Ion Ratio Lower Upper

178 100

176 19.5 16.1 24.1

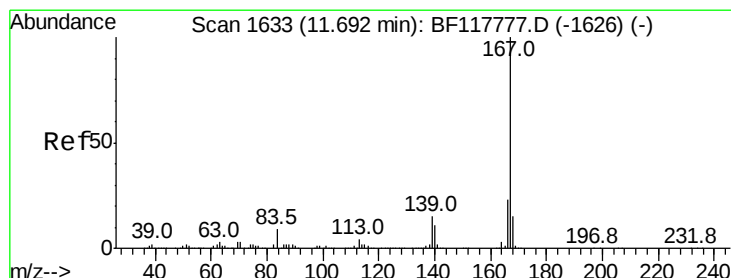
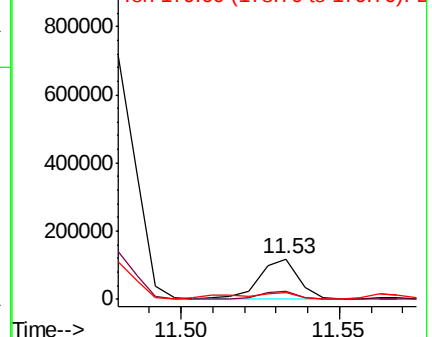
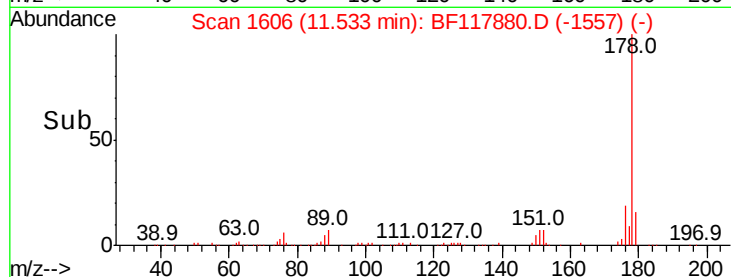
179 16.4 13.0 19.4



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



#73

Carbazole

Concen: 2.789 ng

RT: 11.69 min Scan# 1632

Delta R.T. -0.01 min

Lab File: BF117880.D

Acq: 20 Nov 2019 3:54

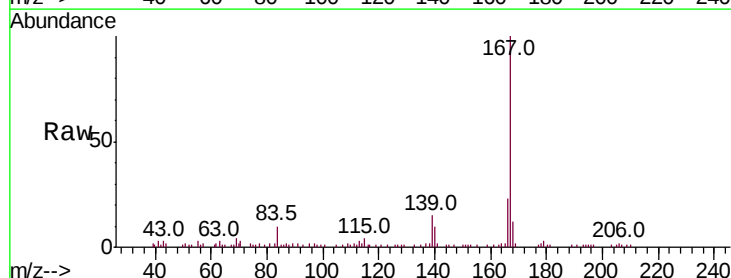
Tgt Ion:167 Resp: 54520

Ion Ratio Lower Upper

167 100

166 22.8 18.0 27.0

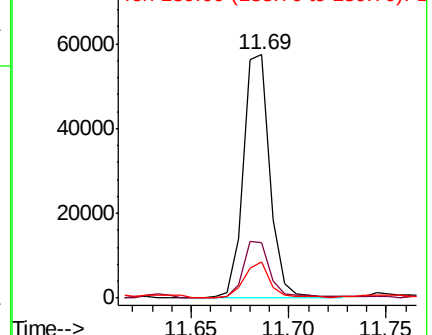
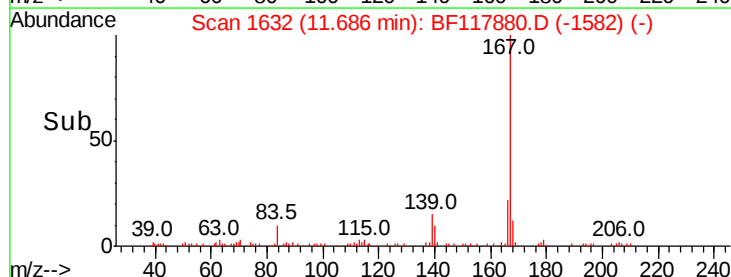
139 14.7 11.7 17.5

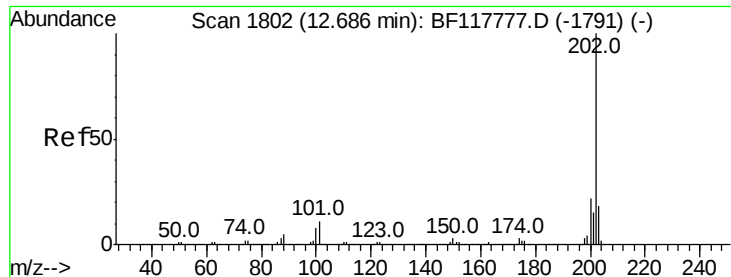


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 29.616 ng

RT: 12.67 min Scan# 1800

Delta R.T. -0.01 min

Lab File: BF117880.D

Acq: 20 Nov 2019 3:54

Instrument :

BNA_F

ClientSampleId :

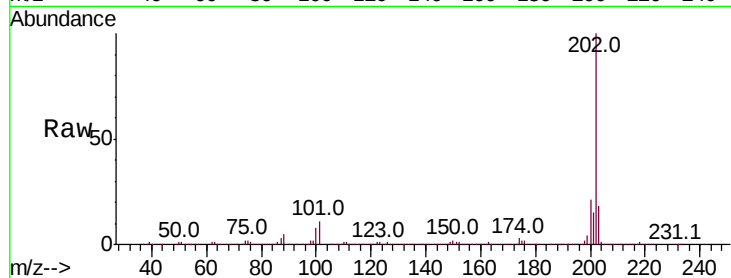
Tot Ion:202 Resp: 661425

Ion Ratio Lower Upper

202 100

101 10.9 0.0 31.1

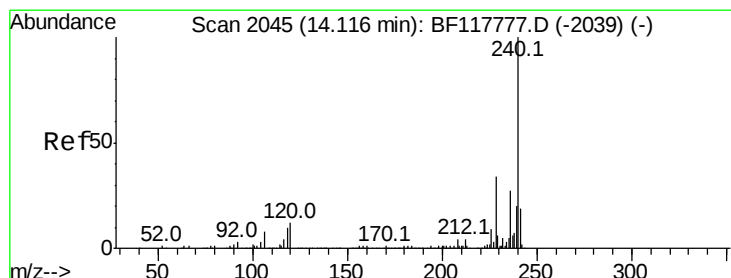
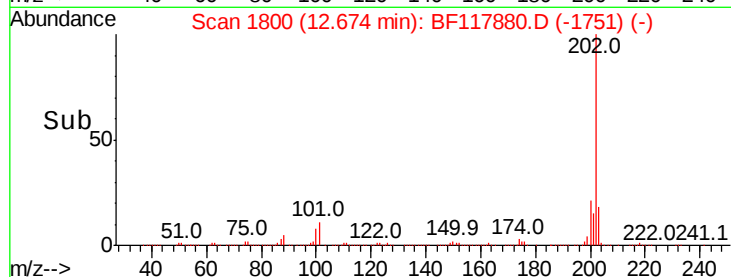
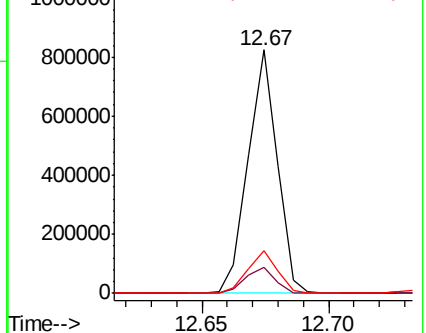
203 17.8 0.0 38.2



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: 14.10 min Scan# 2043

Delta R.T. -0.01 min

Lab File: BF117880.D

Acq: 20 Nov 2019 3:54

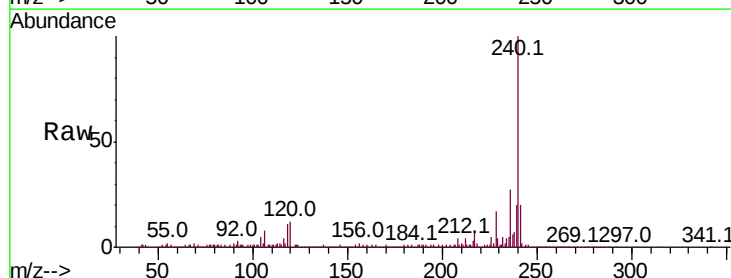
Tgt Ion:240 Resp: 393289

Ion Ratio Lower Upper

240 100

120 12.1 9.5 14.3

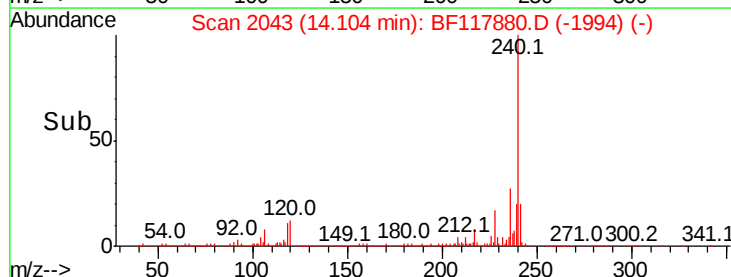
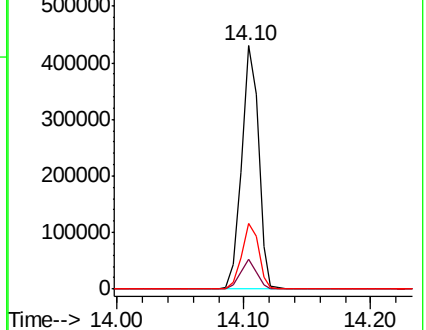
236 27.1 21.3 31.9

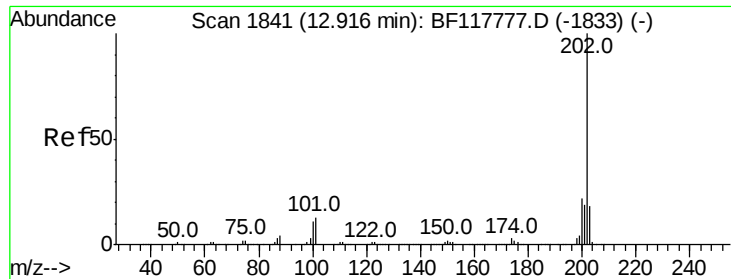


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 15.366 ng

RT: 12.90 min Scan# 1839

Delta R.T. -0.01 min

Lab File: BF117880.D

Acq: 20 Nov 2019 3:54

Instrument :

BNA_F

ClientSampleId :

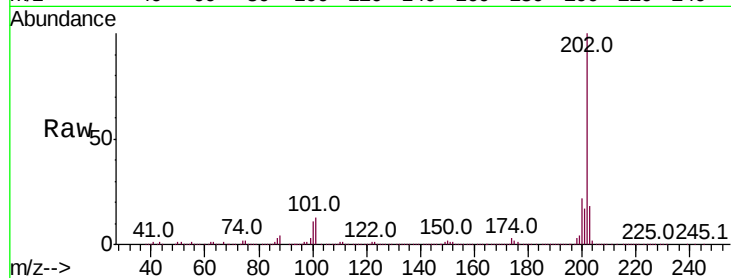
Tot Ion:202 Resp: 488402

Ion Ratio Lower Upper

202 100

200 21.8 17.8 26.8

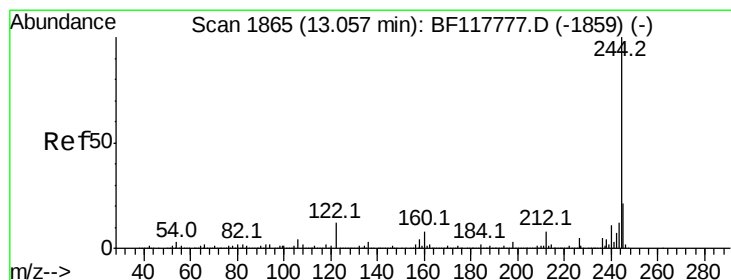
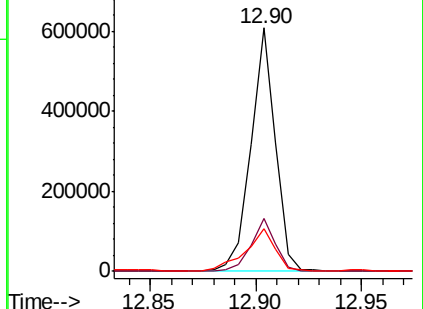
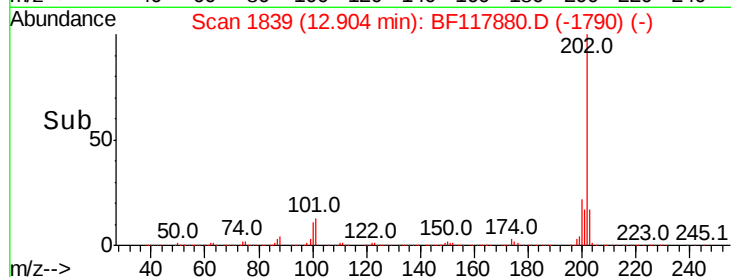
203 17.5 14.6 22.0



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: 68.510 ng

RT: 13.04 min Scan# 1863

Delta R.T. -0.01 min

Lab File: BF117880.D

Acq: 20 Nov 2019 3:54

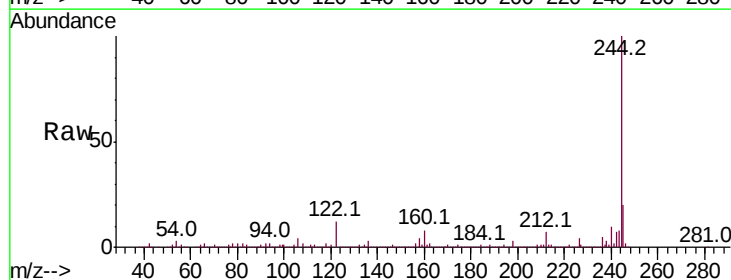
Tgt Ion:244 Resp: 1474279

Ion Ratio Lower Upper

244 100

212 7.2 6.3 9.5

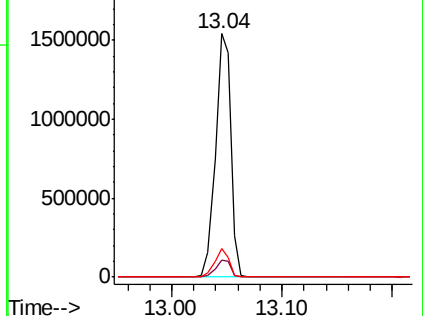
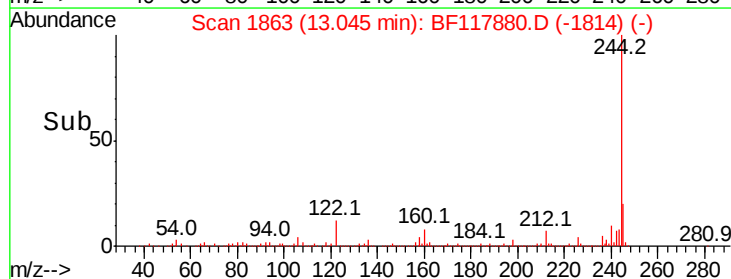
122 12.0 9.4 14.2

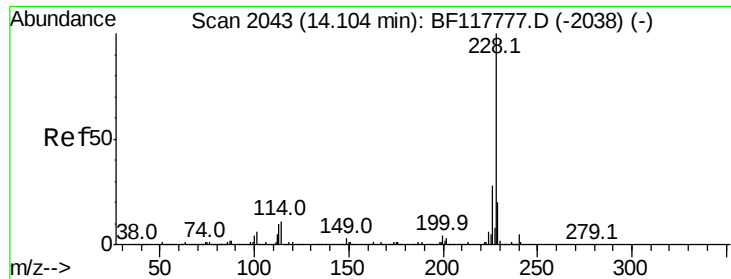


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

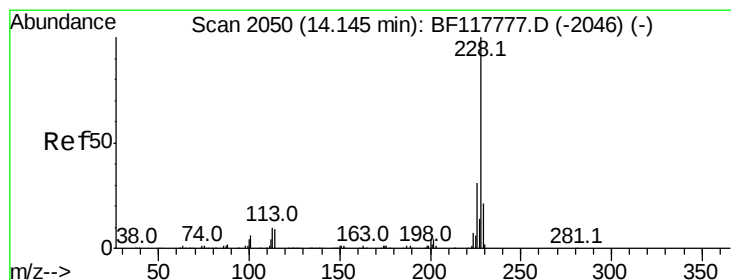
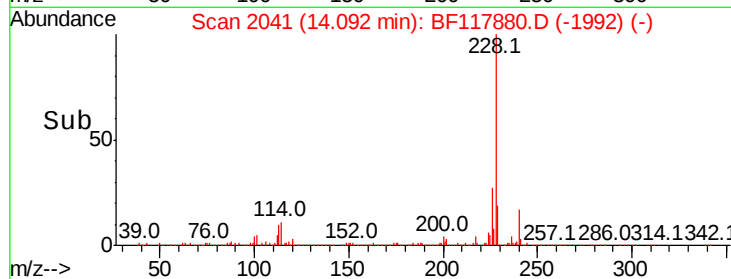
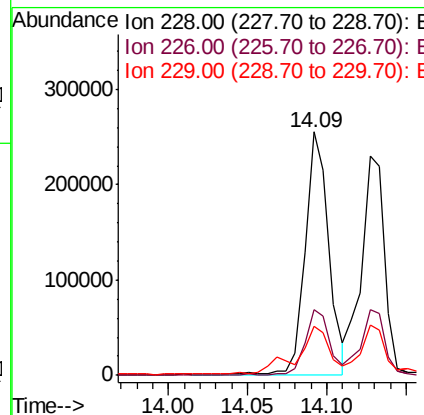
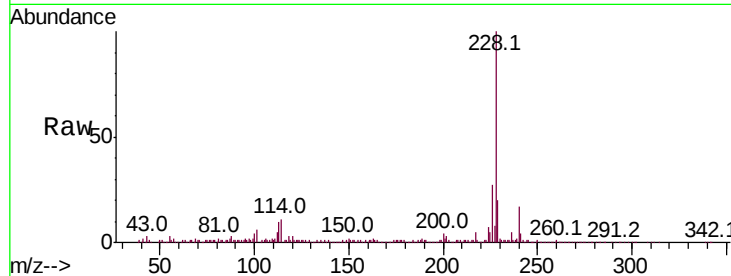




#81
Benzo(a)anthracene
Concen: 10.125 ng
RT: 14.09 min Scan# 2041
Delta R.T. -0.01 min
Lab File: BF117880.D
Acq: 20 Nov 2019 3:54

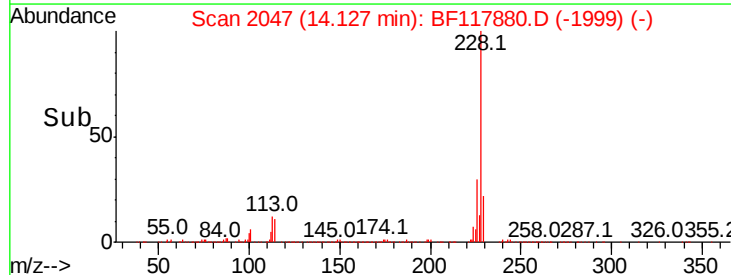
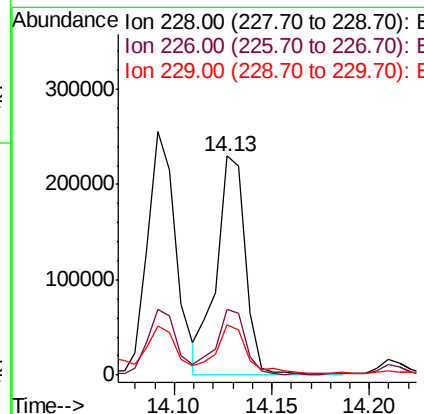
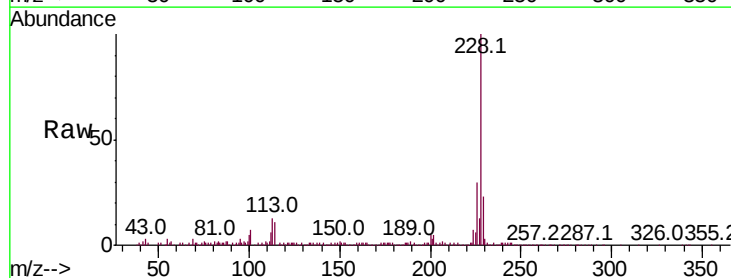
Instrument :
BNA_F
ClientSampleId :

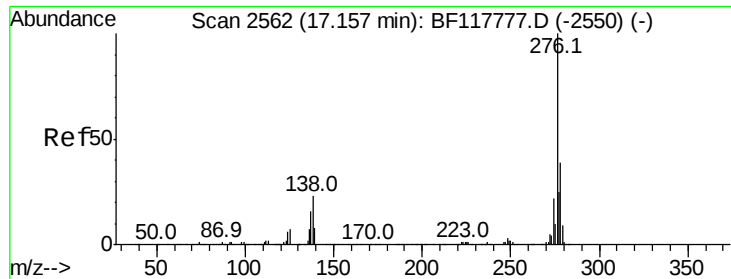
Tot Ion	Ratio	Lower	Upper
228	100		
226	27.0	22.2	33.2
229	20.2	15.9	23.9



#83
Chrysene
Concen: 9.380 ng
RT: 14.13 min Scan# 2047
Delta R.T. -0.02 min
Lab File: BF117880.D
Acq: 20 Nov 2019 3:54

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	25.0	37.4
229	23.2	16.6	25.0

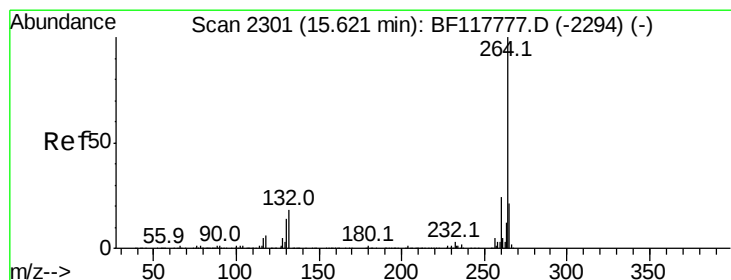
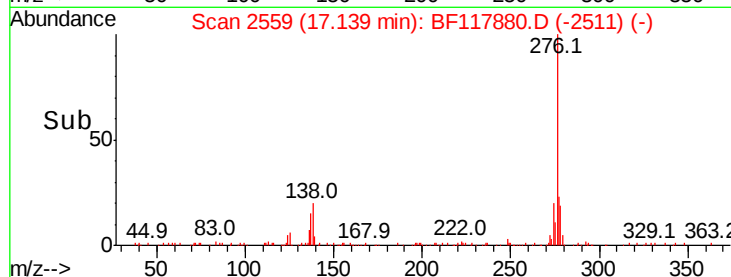
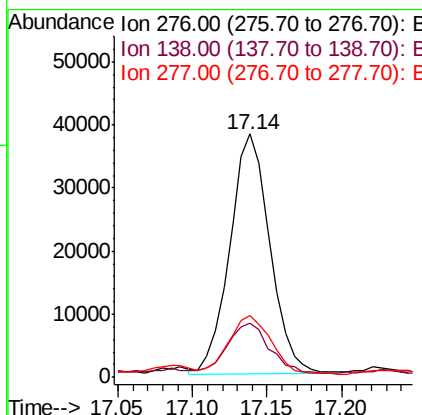
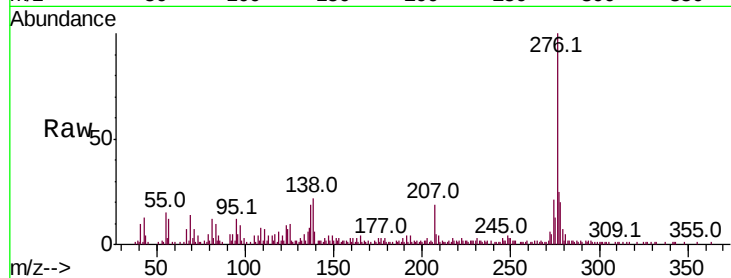




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 3.318 ng
 RT: 17.14 min Scan# 2559
 Delta R.T. -0.02 min
 Lab File: BF117880.D
 Acq: 20 Nov 2019 3:54

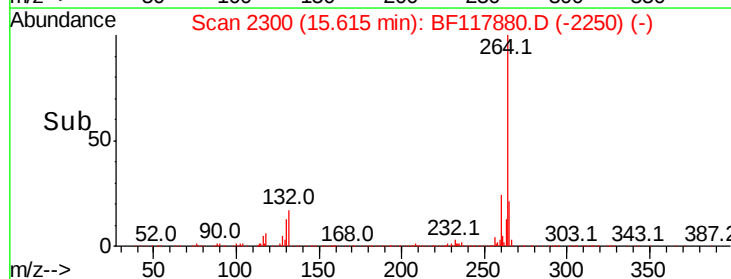
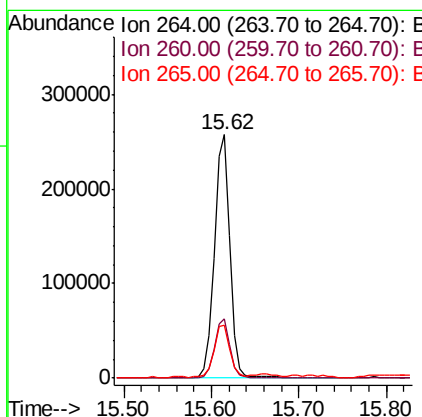
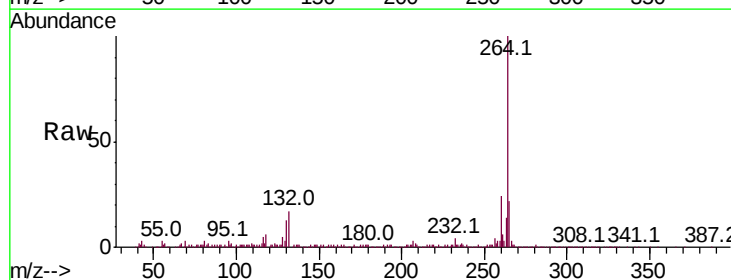
Instrument :
 BNA_F
 ClientSampled :

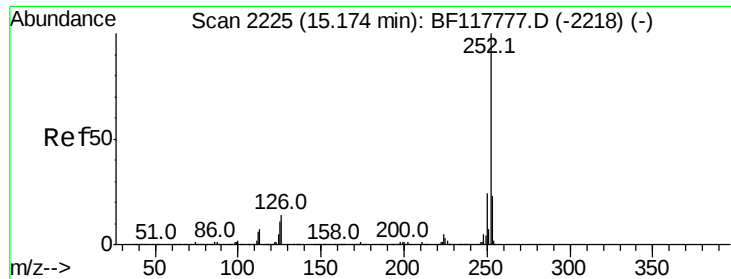
Tot Ion	Ratio	Lower	Upper
276	100		
138	21.8	20.9	31.3
277	26.1	20.3	30.5



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.62 min Scan# 2300
 Delta R.T. -0.01 min
 Lab File: BF117880.D
 Acq: 20 Nov 2019 3:54

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.4	29.0
265	21.7	17.1	25.7





#88

Benzo(b)fluoranthene

Concen: 14.367 ng

RT: 15.16 min Scan# 2223

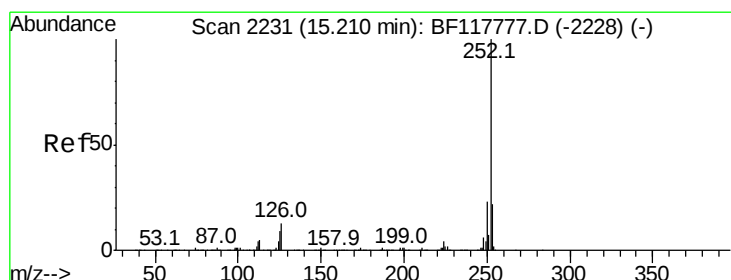
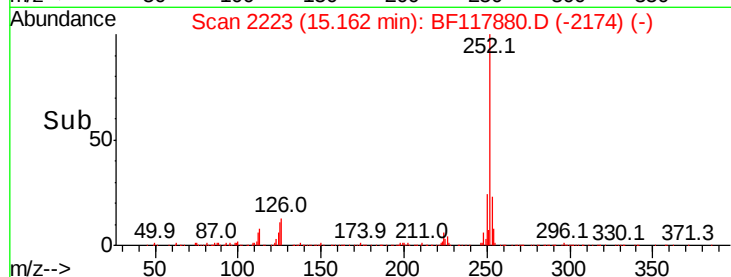
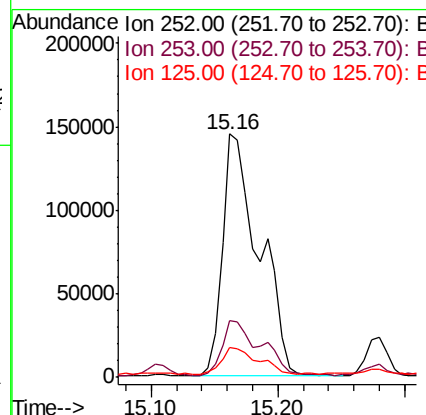
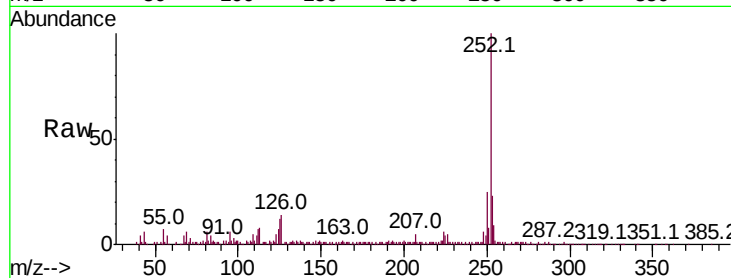
Delta R.T. -0.01 min

Lab File: BF117880.D

Acq: 20 Nov 2019 3:54

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.0	27.0
125	12.1	8.6	13.0



#89

Benzo(k)fluoranthene

Concen: 15.248 ng

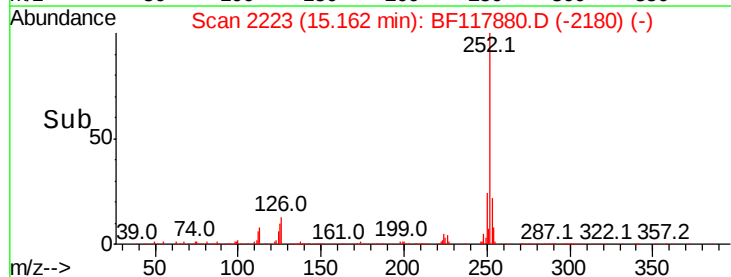
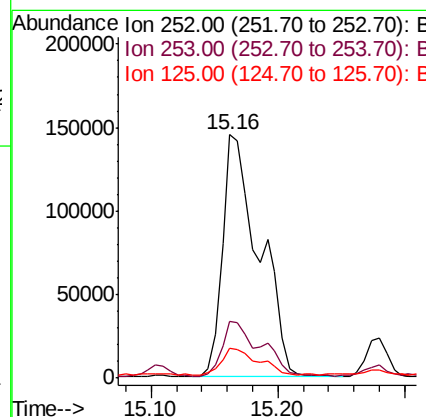
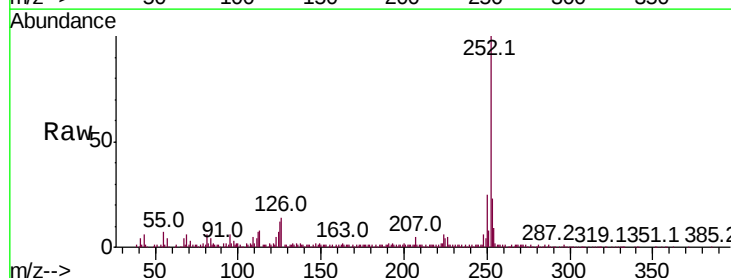
RT: 15.16 min Scan# 2223

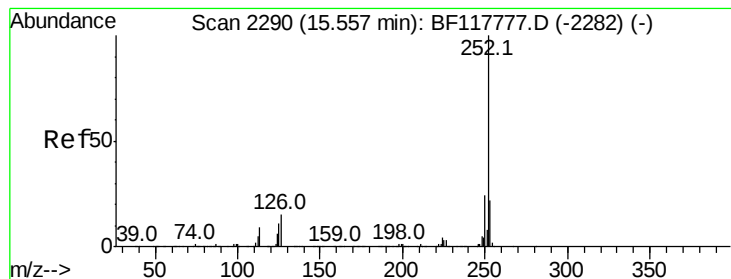
Delta R.T. -0.05 min

Lab File: BF117880.D

Acq: 20 Nov 2019 3:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.5	26.3
125	12.1	7.9	11.9#





#90

Benzo(a)pyrene

Concen: 7.143 ng

RT: 15.54 min Scan# 2288

Delta R.T. -0.01 min

Lab File: BF117880.D

Acq: 20 Nov 2019 3:54

Instrument :

BNA_F

ClientSampled :

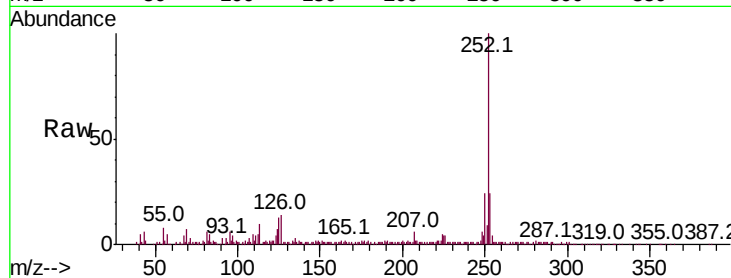
Tot Ion:252 Resp: 127822

Ion Ratio Lower Upper

252 100

253 24.0 17.8 26.6

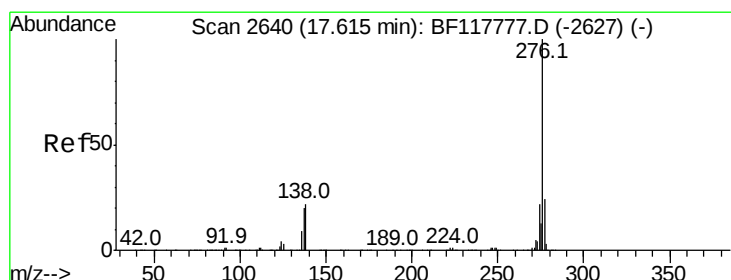
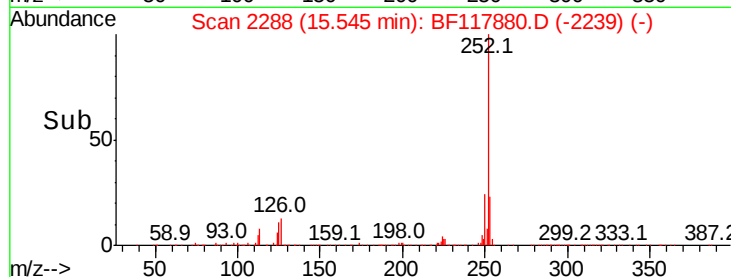
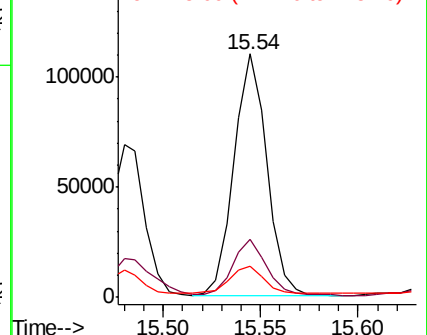
125 12.8 9.2 13.8



Abundance Ion 252.00 (251.70 to 252.70): E

150000 Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92

Benzo(g,h,i)perylene

Concen: 3.816 ng

RT: 17.60 min Scan# 2638

Delta R.T. -0.01 min

Lab File: BF117880.D

Acq: 20 Nov 2019 3:54

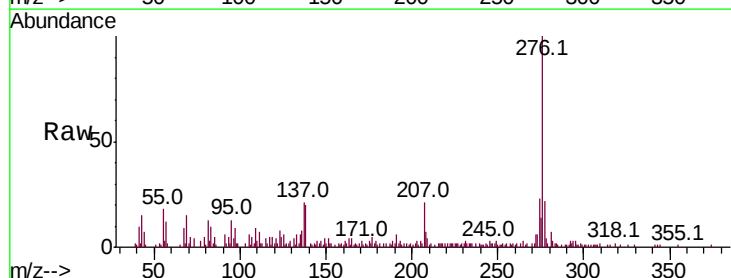
Tgt Ion:276 Resp: 58544

Ion Ratio Lower Upper

276 100

277 22.1 18.9 28.3

138 20.1 17.4 26.2



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

