

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051719\
 Data File : BF114376.D
 Acq On : 18 May 2019 3:48
 Operator : JU/SJ
 Sample : K2894-08
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 18 05:09:47 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 10 15:56:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	259044	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	984652	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	426844	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	750677	20.00	ng	0.00
76) Chrysene-d12	14.02	240	449512	20.00	ng	0.00
87) Perylene-d12	15.50	264	343625	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.48	112	1176728	73.10	ng	0.00
7) Phenol-d6	6.50	99	1552865	81.56	ng	0.00
23) Nitrobenzene-d5	7.41	82	642139	36.60	ng	0.00
42) 2,4,6-Tribromophenol	10.67	330	275896	62.52	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	1493292	52.92	ng	0.00
79) Terphenyl-d14	12.96	244	1171842	53.74	ng	0.00

Target Compounds

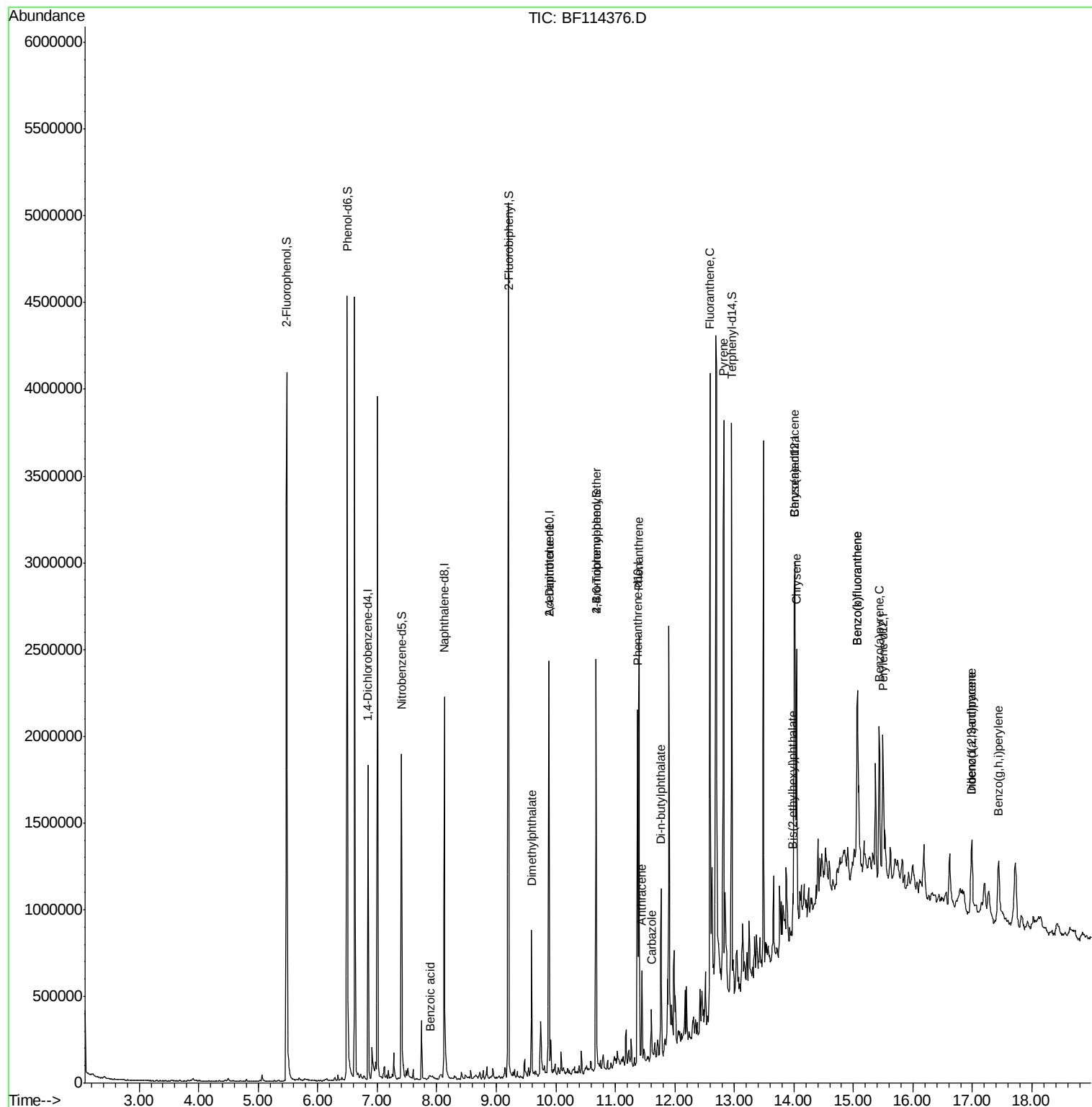
						Qvalue
32) Benzoic acid	7.90	122	3704	7.346	ng	97
50) Dimethylphthalate	9.59	163	324790	10.365	ng	99
57) 2,4-Dinitrotoluene	9.89	165	57778	6.125	ng	# 27
67) 4-Bromophenyl-phenylether	10.67	248	17814	2.155	ng	# 1
71) Phenanthrene	11.40	178	883064	24.179	ng	97
72) Anthracene	11.45	178	215864	5.885	ng	97
73) Carbazole	11.60	167	109733	3.137	ng	97
74) Di-n-butylphthalate	11.77	149	166089	4.121	ng	# 42
75) Fluoranthene	12.59	202	1511069	38.421	ng	99
78) Pyrene	12.82	202	1394848	38.573	ng	99
81) Benzo(a)anthracene	14.01	228	641314	22.058	ng	99
83) Chrysene	14.04	228	574937	20.173	ng	98
84) Bis(2-ethylhexyl)phthalate	13.98	149	55505	2.788	ng	97
86) Indeno(1,2,3-cd)pyrene	16.99	276	271535	10.780	ng	96
88) Benzo(b)fluoranthene	15.07	252	834897	37.925	ng	# 96
89) Benzo(k)fluoranthene	15.07	252	834897	41.285	ng	# 97
90) Benzo(a)pyrene	15.43	252	408764	21.098	ng	96
91) Dibenzo(a,h)anthracene	16.99	278	80410	4.995	ng	# 80
92) Benzo(a,h,i)perylene	17.44	276	289485	17.942	ng	97

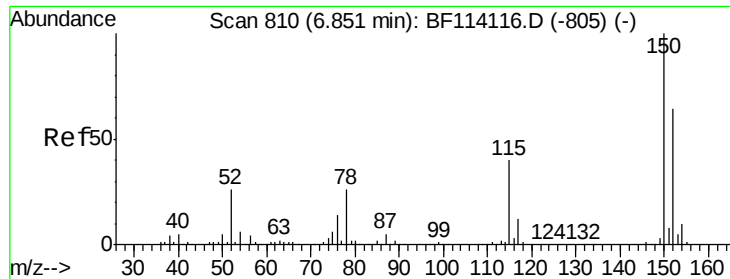
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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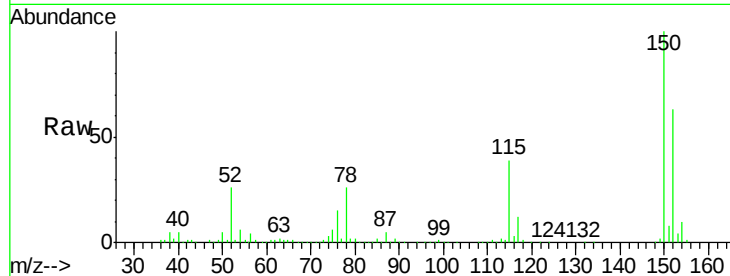


#1

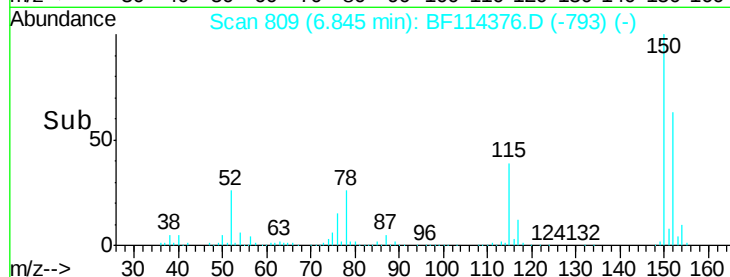
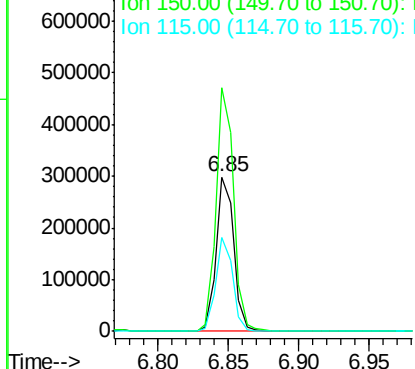
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF114376.D
Acq: 18 May 2019 3:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 259044
Ion Ratio Lower Upper
152 100
150 157.5 124.3 186.5
115 60.8 49.1 73.7



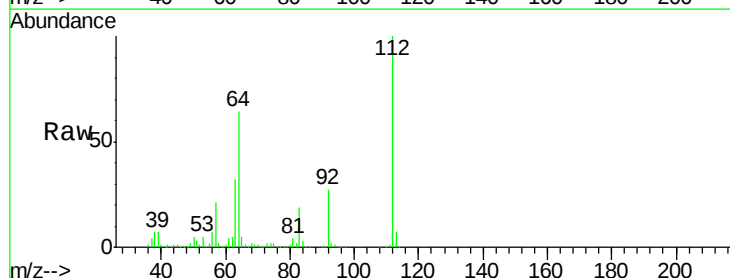
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



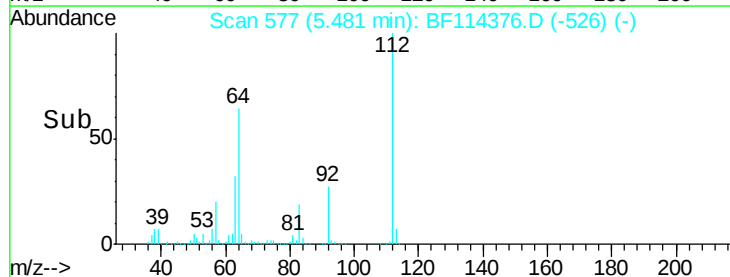
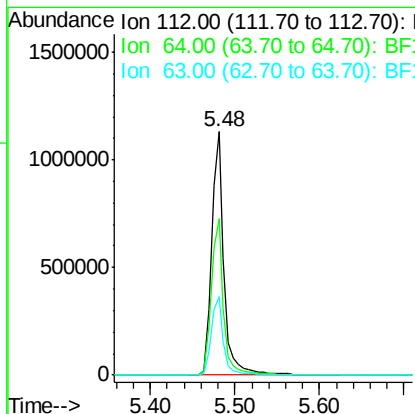
#5

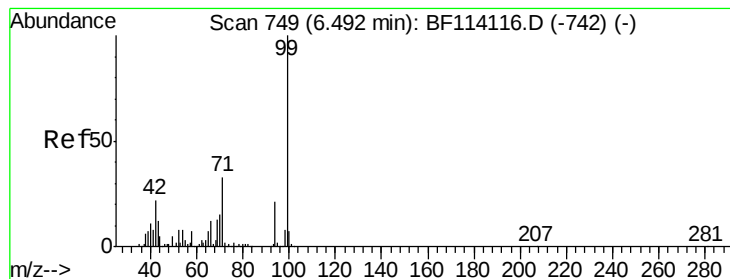
2-Fluorophenol
Concen: 73.102 ng
RT: 5.48 min Scan# 577
Delta R.T. 0.00 min
Lab File: BF114376.D
Acq: 18 May 2019 3:48

Tgt Ion:112 Resp: 1176728
Ion Ratio Lower Upper
112 100
64 64.3 49.0 73.6
63 32.4 24.6 37.0



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: 81.564 ng

RT: 6.50 min Scan# 750

Delta R.T. 0.01 min

Lab File: BF114376.D

Acq: 18 May 2019 3:48

Instrument :

BNA_F

ClientSampleId :

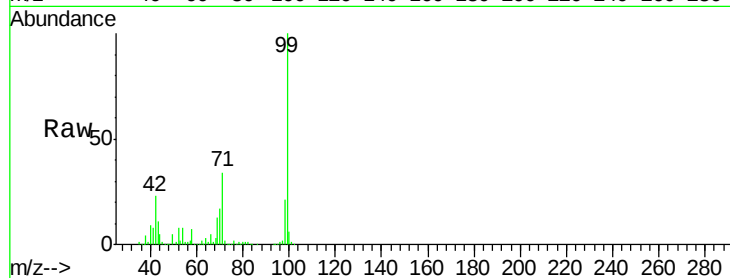
Tot Ion: 99 Resp: 1552865

Ion Ratio Lower Upper

99 100

42 22.5 17.9 26.9

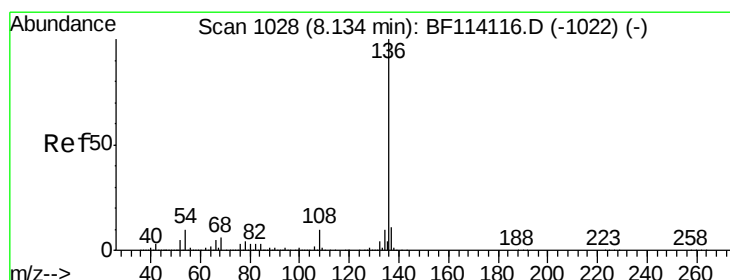
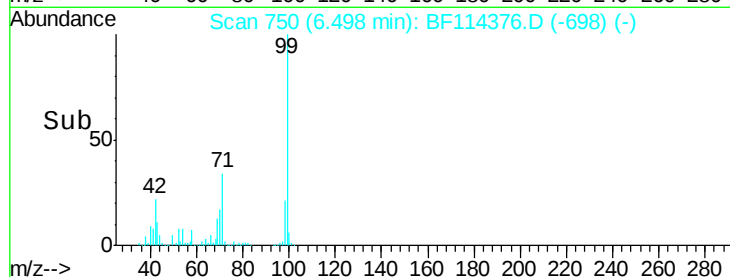
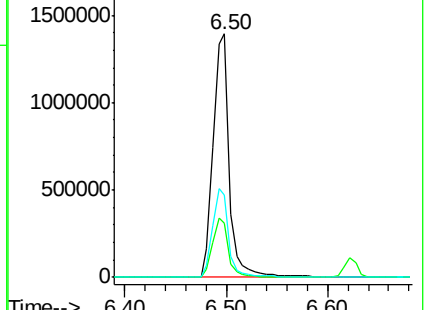
71 33.9 26.2 39.2



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.13 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BF114376.D

Acq: 18 May 2019 3:48

Tgt Ion: 136 Resp: 984652

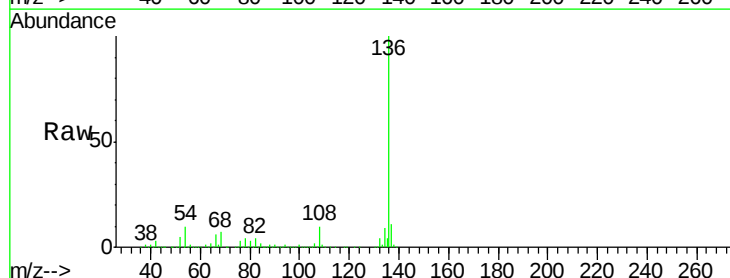
Ion Ratio Lower Upper

136 100

137 11.4 8.8 13.2

54 9.8 7.8 11.8

68 6.6 5.1 7.7

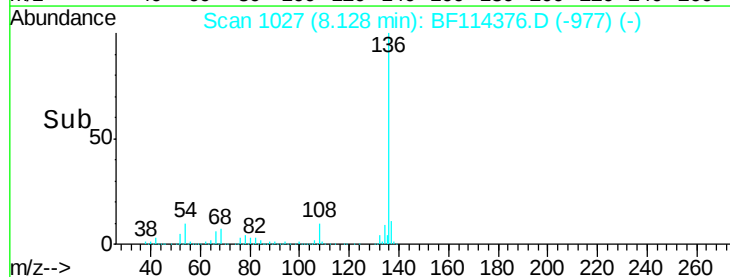
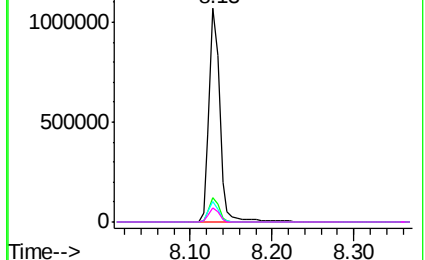


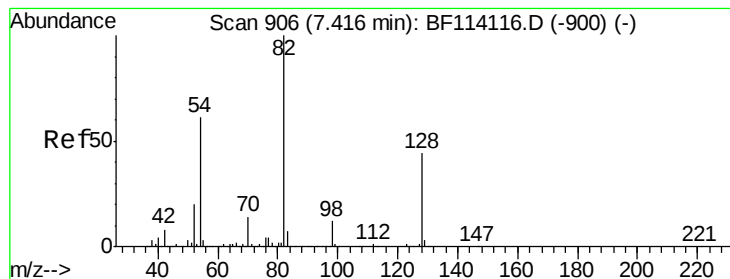
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





#23

Nitrobenzene-d5

Concen: 36.599 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.01 min

Lab File: BF114376.D

Acq: 18 May 2019 3:48

Instrument :

BNA_F

ClientSampleId :

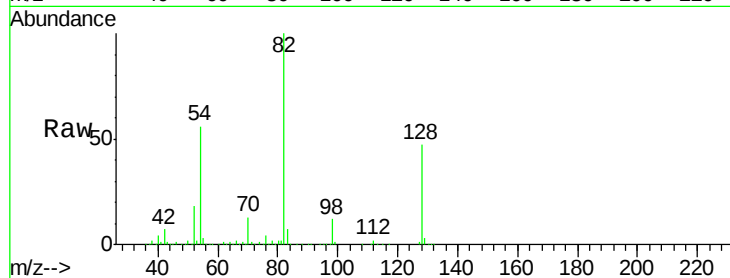
Tot Ion: 82 Resp: 642139

Ion Ratio Lower Upper

82 100

128 47.1 35.5 53.3

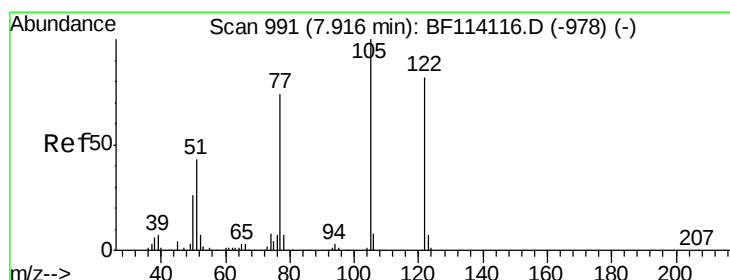
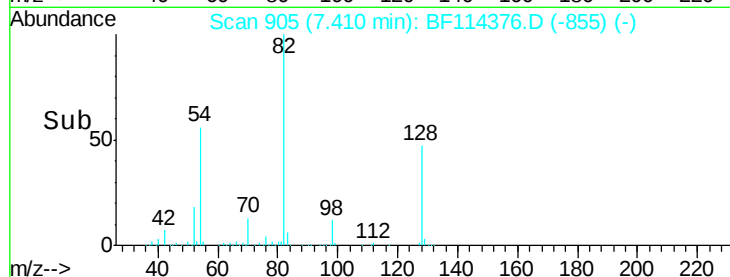
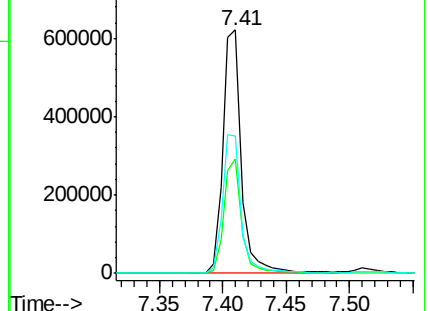
54 56.2 48.5 72.7



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



#32

Benzoic acid

Concen: 7.346 ng

RT: 7.90 min Scan# 988

Delta R.T. -0.02 min

Lab File: BF114376.D

Acq: 18 May 2019 3:48

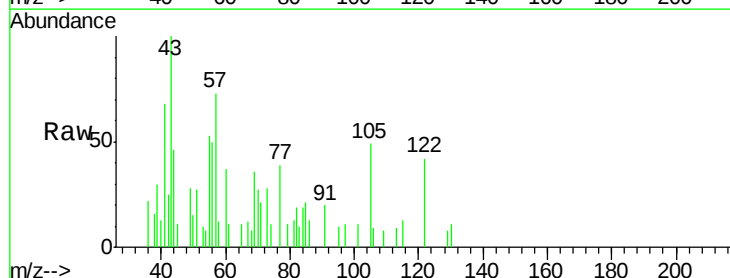
Tgt Ion: 122 Resp: 3704

Ion Ratio Lower Upper

122 100

105 117.7 99.9 139.9

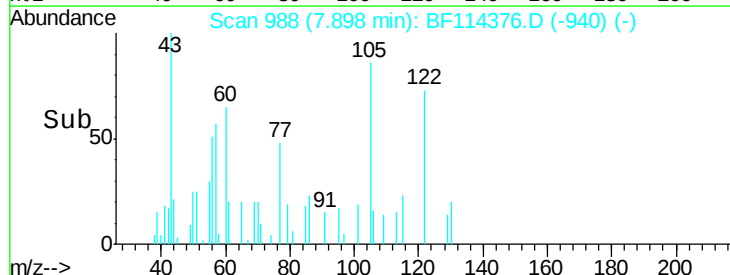
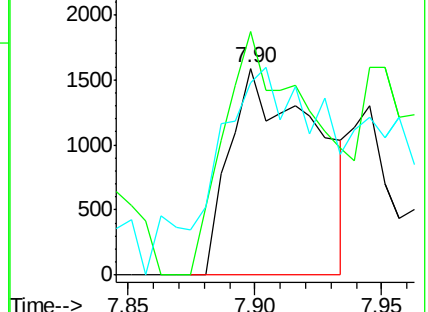
77 93.1 69.4 109.4

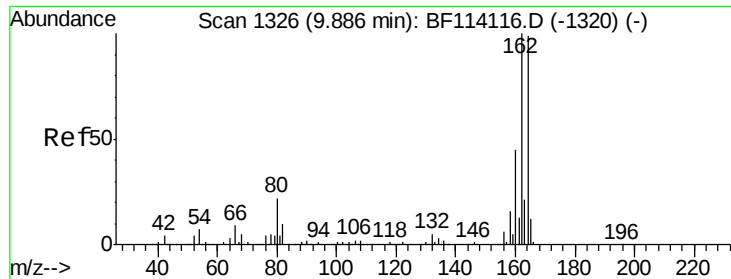


Abundance Ion 122.00 (121.70 to 122.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 77.00 (76.70 to 77.70): BF1

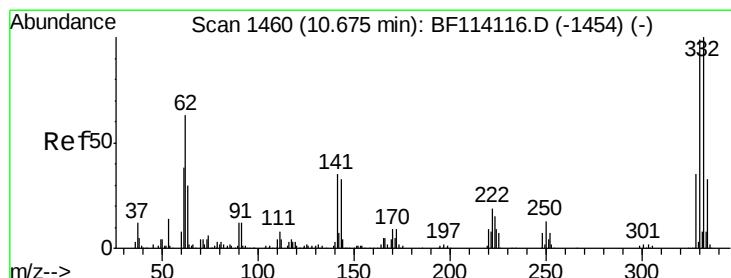
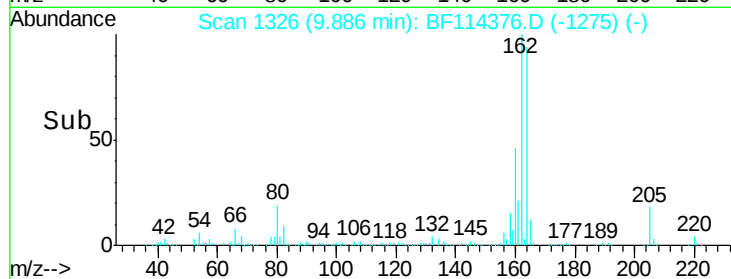
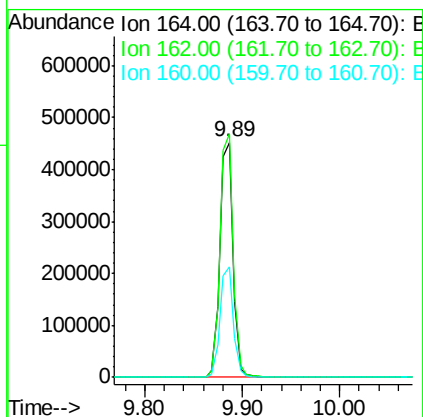
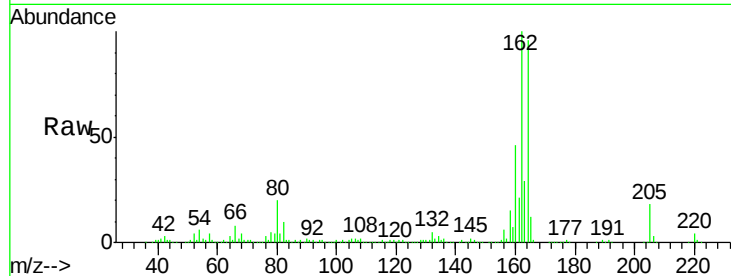




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.00 min
Lab File: BF114376.D
Acq: 18 May 2019 3:48

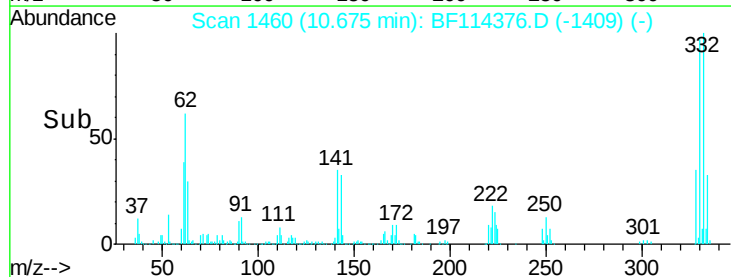
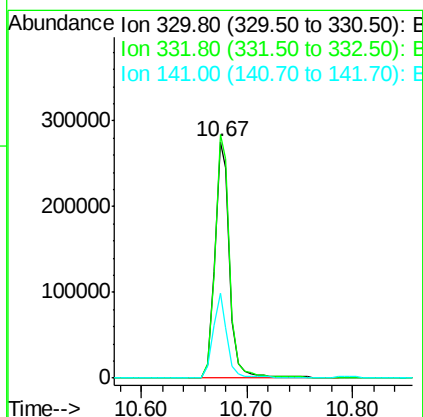
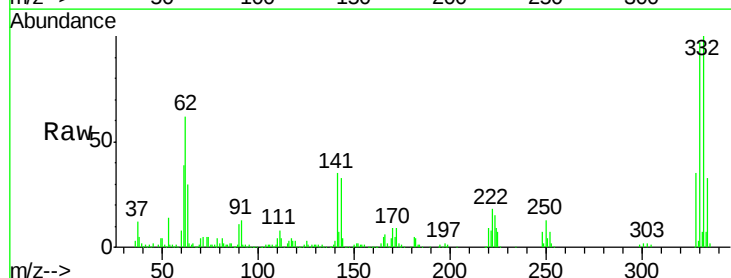
Instrument :
BNA_F
ClientSampleId :

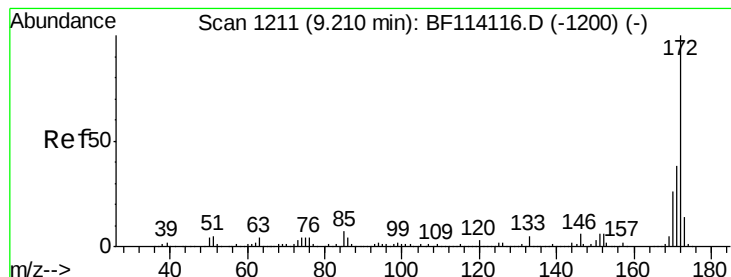
Tot Ion:164 Resp: 426844
Ion Ratio Lower Upper
164 100
162 103.7 80.6 120.8
160 47.3 36.5 54.7



#42
2,4,6-Tribromophenol
Concen: 62.521 ng
RT: 10.67 min Scan# 1460
Delta R.T. -0.00 min
Lab File: BF114376.D
Acq: 18 May 2019 3:48

Tgt Ion:330 Resp: 275896
Ion Ratio Lower Upper
330 100
332 102.5 81.4 122.2
141 33.3 26.6 40.0





#45

2-Fluorobiphenyl

Concen: 52.920 ng

RT: 9.20 min Scan# 1210

Delta R.T. -0.01 min

Lab File: BF114376.D

Acq: 18 May 2019 3:48

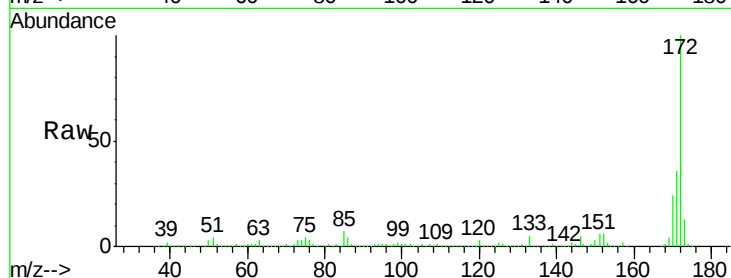
Instrument :

BNA_F

ClientSampleId :

Tot Ion:172 Resp: 1493292

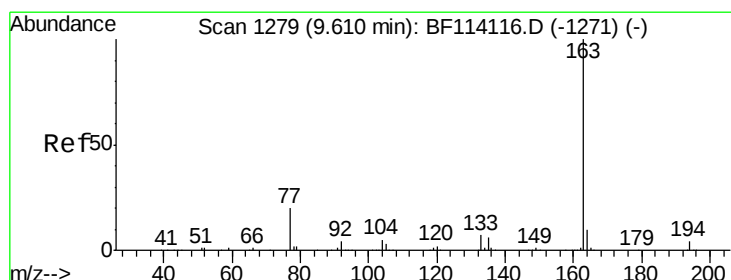
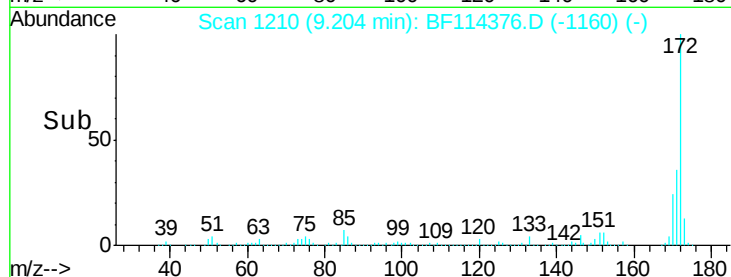
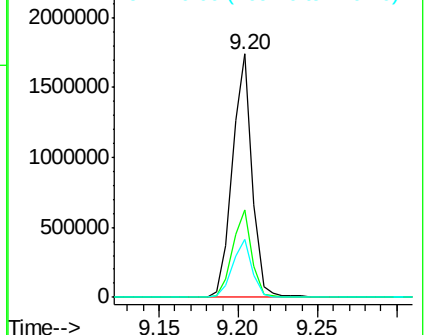
Ion	Ratio	Lower	Upper
172	100		
171	36.0	30.7	46.1
170	24.1	20.5	30.7



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: 10.365 ng

RT: 9.59 min Scan# 1276

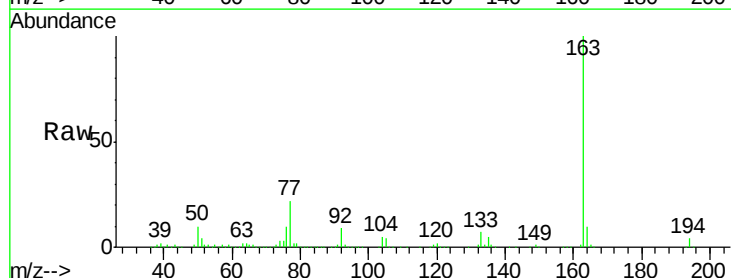
Delta R.T. -0.02 min

Lab File: BF114376.D

Acq: 18 May 2019 3:48

Tgt Ion:163 Resp: 324790

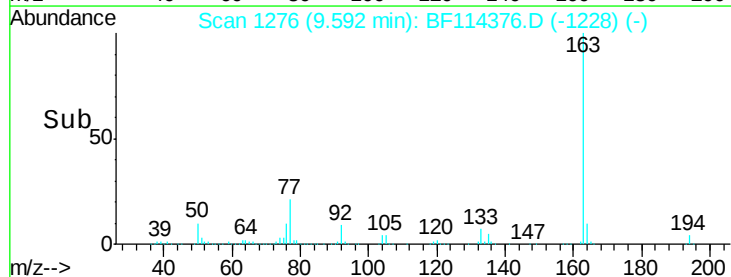
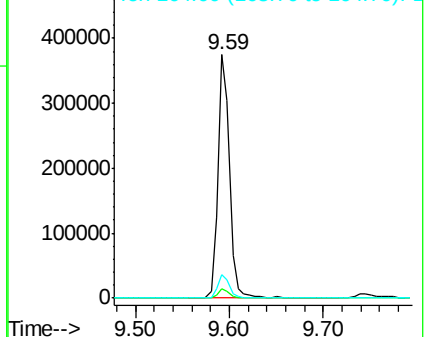
Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.4	5.0
164	9.8	8.2	12.2

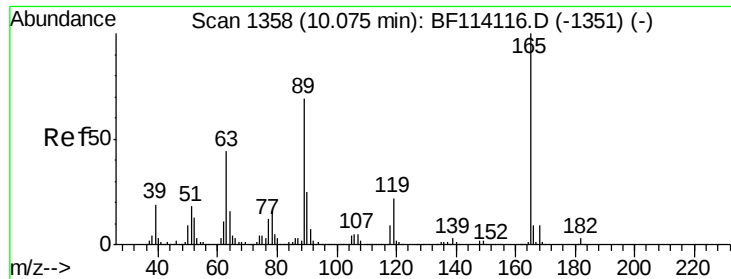


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

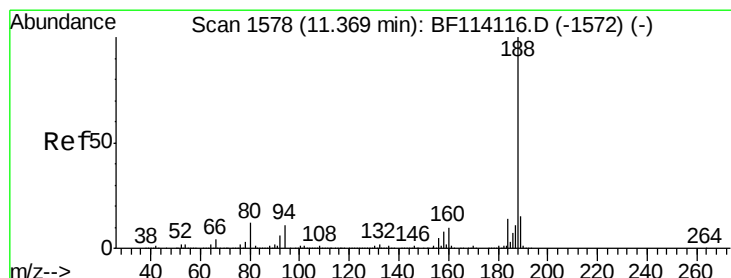
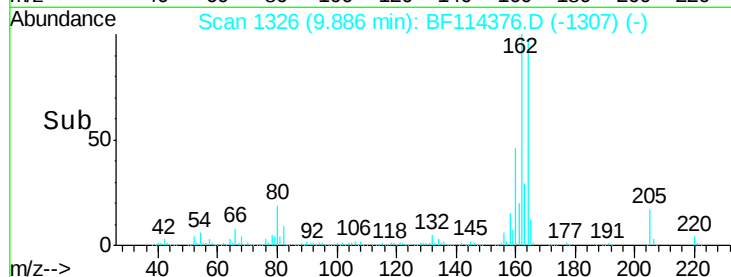
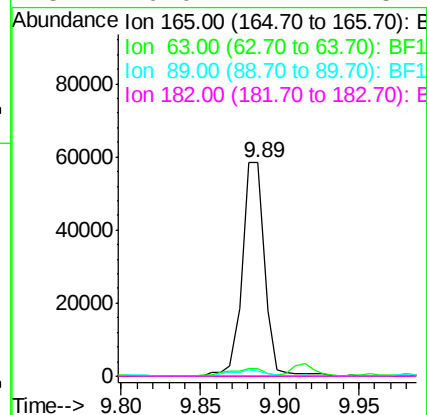
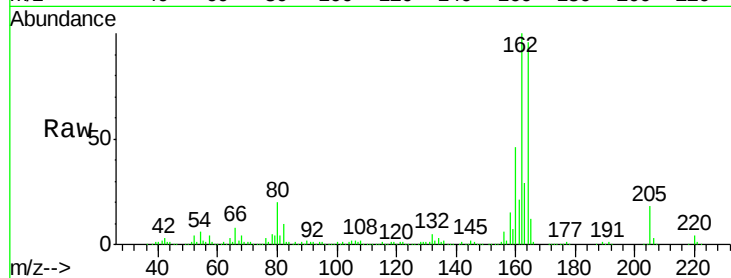




#57
 2,4-Dinitrotoluene
 Concen: 6.125 ng
 RT: 9.89 min Scan# 1326
 Delta R.T. -0.19 min
 Lab File: BF114376.D
 Acq: 18 May 2019 3:48

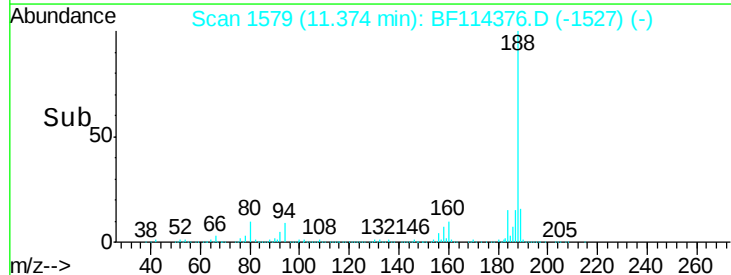
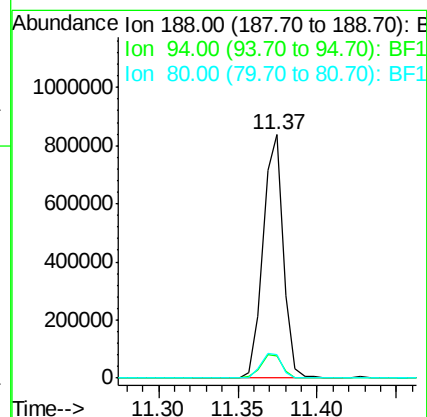
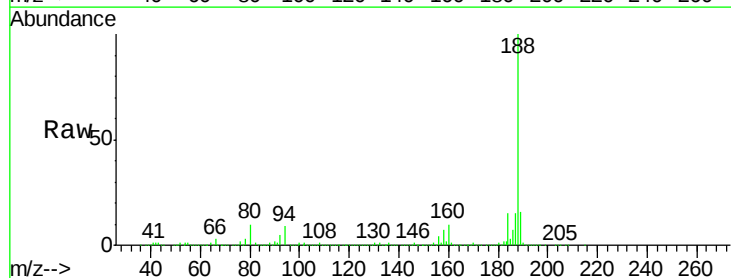
Instrument :
 BNA_F
 ClientSampleId :

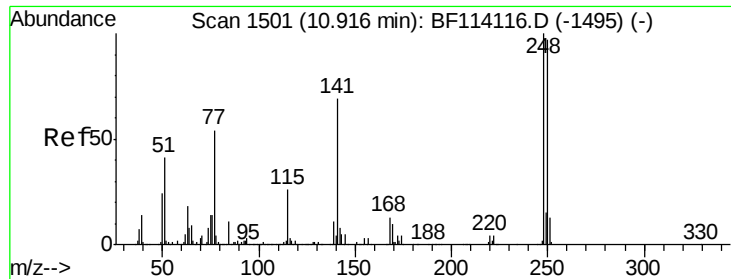
Tot Ion	Ratio	Lower	Upper
165	100		
63	3.4	35.5	53.3#
89	2.2	55.2	82.8#
182	0.0	2.2	3.2#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.37 min Scan# 1579
 Delta R.T. 0.01 min
 Lab File: BF114376.D
 Acq: 18 May 2019 3:48

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.1	8.4	12.6
80	9.7	9.2	13.8

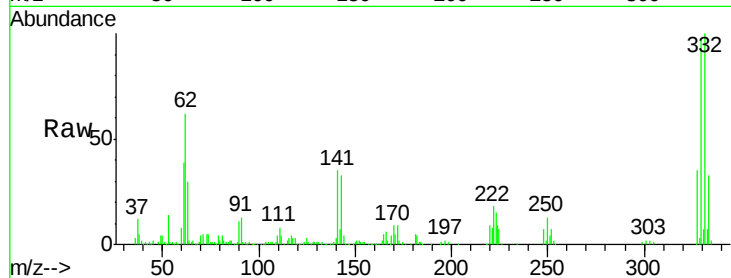




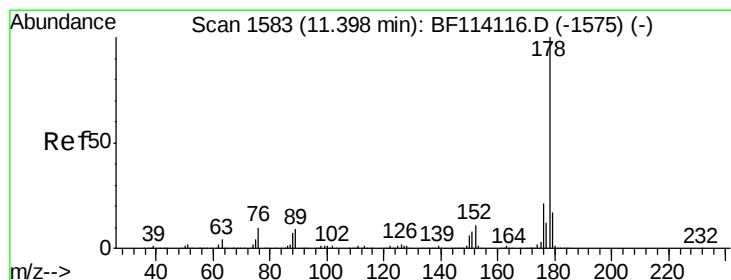
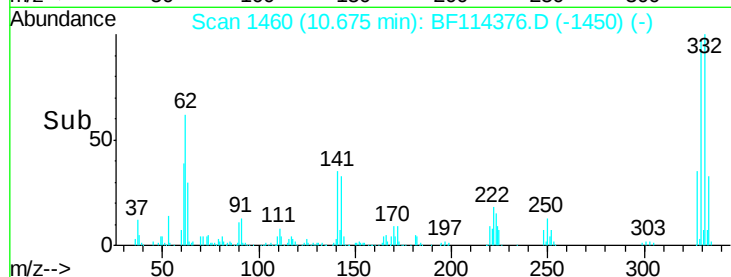
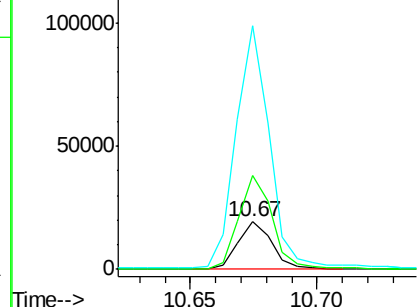
#67
4-Bromophenyl-phenylether
Concen: 2.155 ng
RT: 10.67 min Scan# 1460
Delta R.T. -0.24 min
Lab File: BF114376.D
Acq: 18 May 2019 3:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:248 Resp: 17814
Ion Ratio Lower Upper
248 100
250 196.8 77.4 116.2#
141 511.7 55.6 83.4#

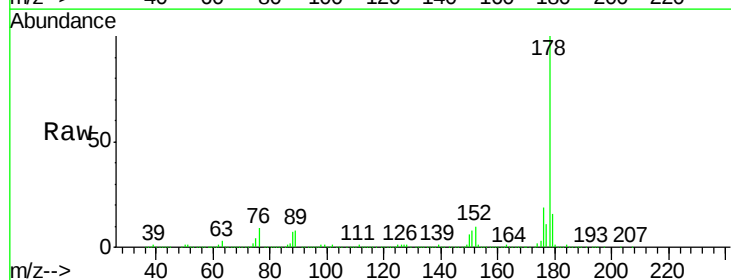


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

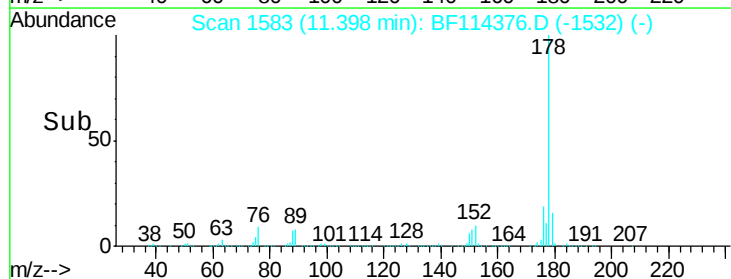
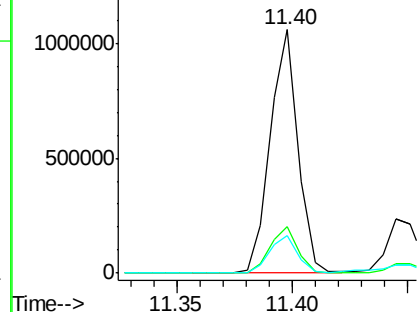


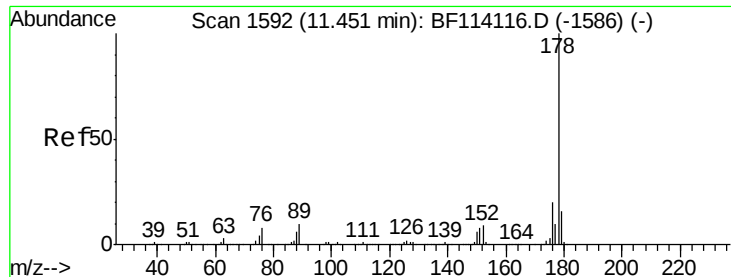
#71
Phenanthrene
Concen: 24.179 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.00 min
Lab File: BF114376.D
Acq: 18 May 2019 3:48

Tgt Ion:178 Resp: 883064
Ion Ratio Lower Upper
178 100
176 19.0 16.4 24.6
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

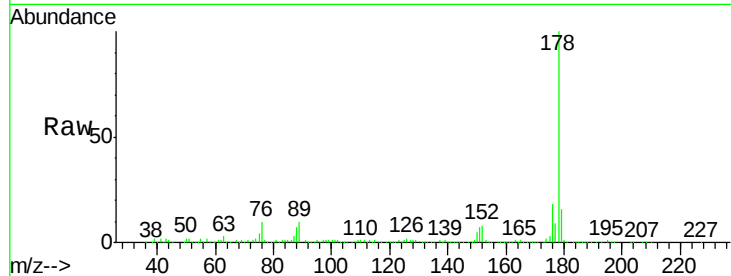




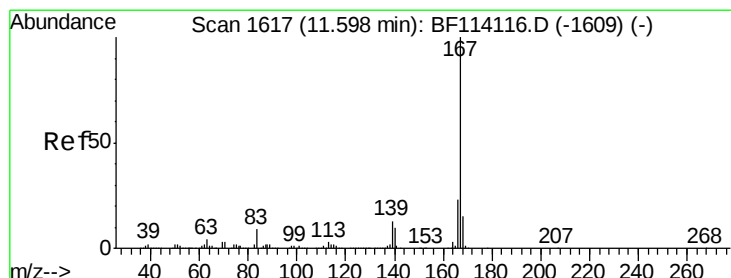
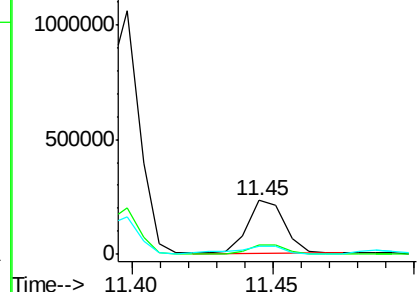
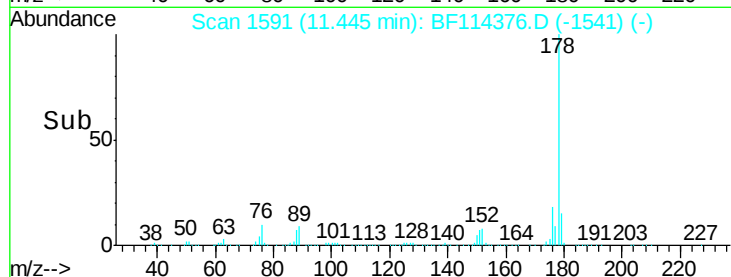
#72
 Anthracene
 Concen: 5.885 ng
 RT: 11.45 min Scan# 1591
 Delta R.T. -0.01 min
 Lab File: BF114376.D
 Acq: 18 May 2019 3:48

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.9	15.8	23.8
179	15.5	13.0	19.4

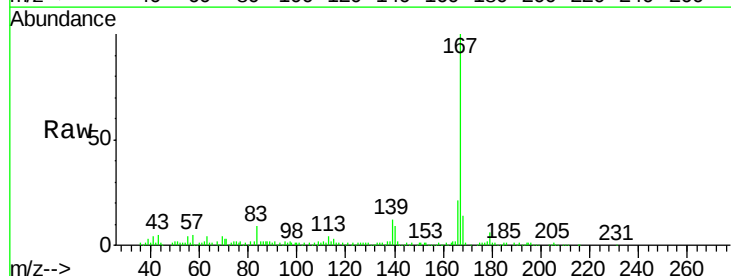


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

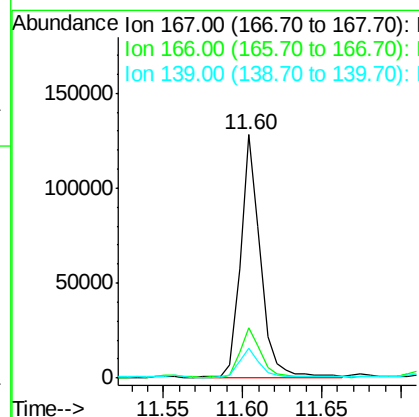
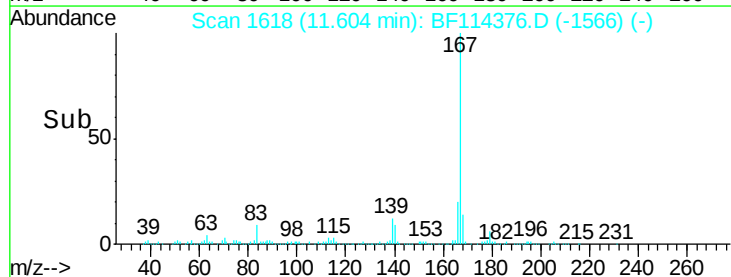


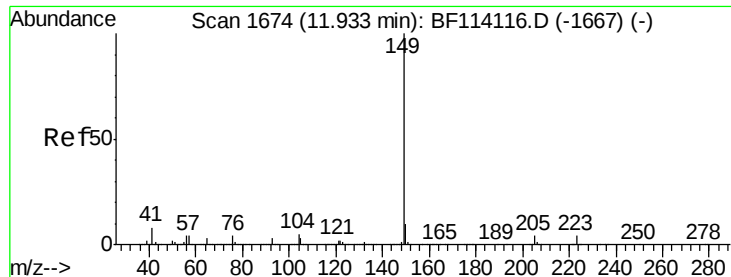
#73
 Carbazole
 Concen: 3.137 ng
 RT: 11.60 min Scan# 1618
 Delta R.T. 0.01 min
 Lab File: BF114376.D
 Acq: 18 May 2019 3:48

Tgt Ion	Ratio	Lower	Upper
167	100		
166	20.8	18.2	27.2
139	12.4	10.6	16.0



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

Di-n-butylphthalate

Concen: 4.121 ng

RT: 11.77 min Scan# 1646

Delta R.T. -0.16 min

Lab File: BF114376.D

Acq: 18 May 2019 3:48

Instrument :

BNA_F

ClientSampleId :

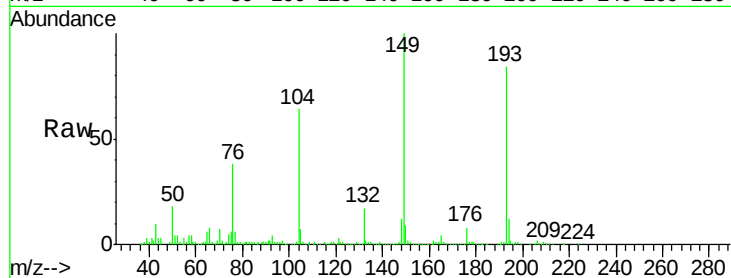
Tot Ion:149 Resp: 166089

Ion Ratio Lower Upper

149 100

150 9.1 7.7 11.5

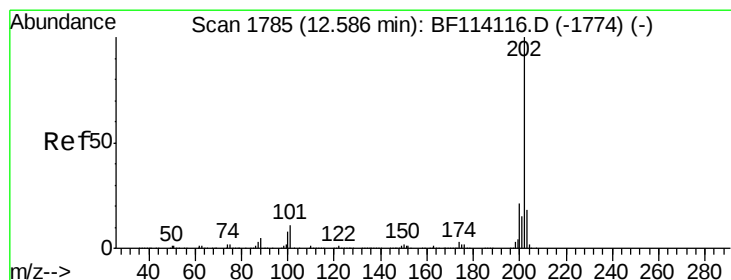
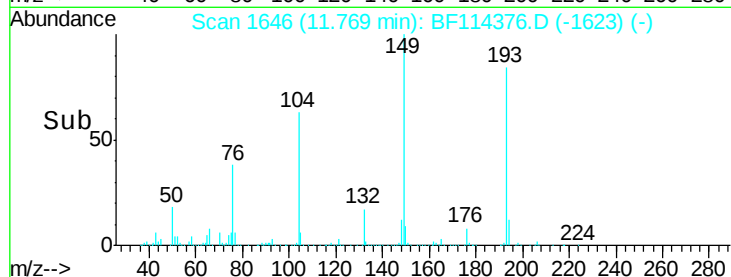
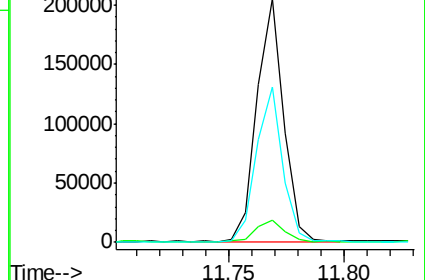
104 63.6 3.6 5.4#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#75

Fluoranthene

Concen: 38.421 ng

RT: 12.59 min Scan# 1786

Delta R.T. 0.01 min

Lab File: BF114376.D

Acq: 18 May 2019 3:48

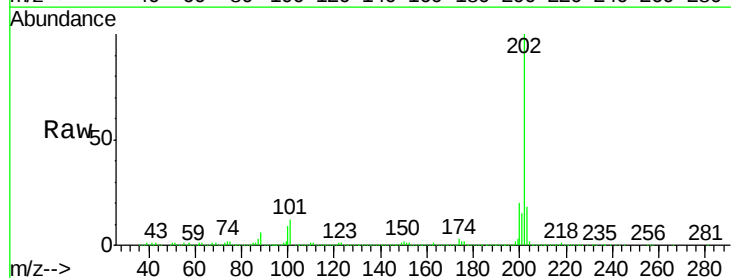
Tgt Ion:202 Resp: 1511069

Ion Ratio Lower Upper

202 100

101 11.6 0.0 31.0

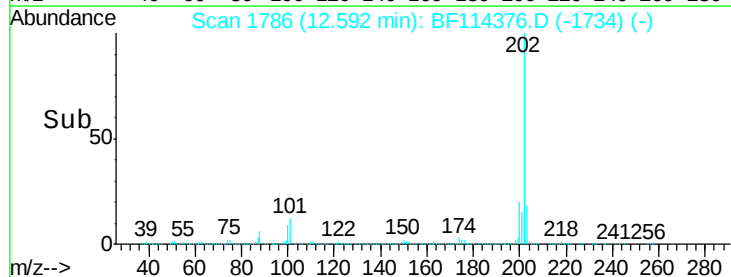
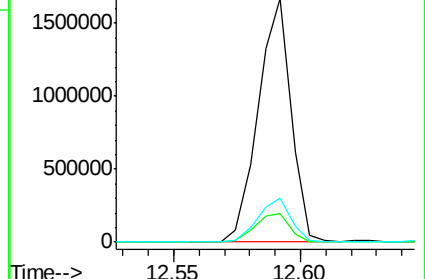
203 17.9 0.0 38.4

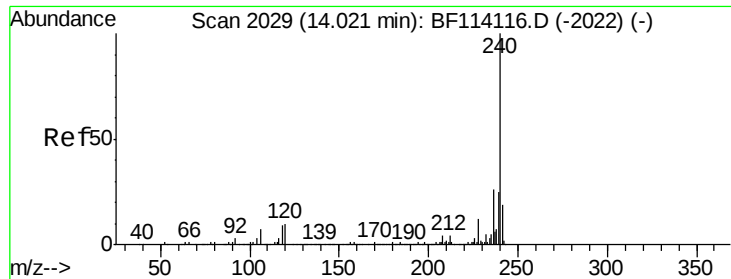


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

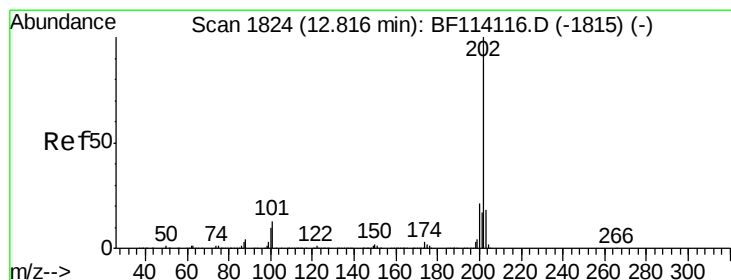
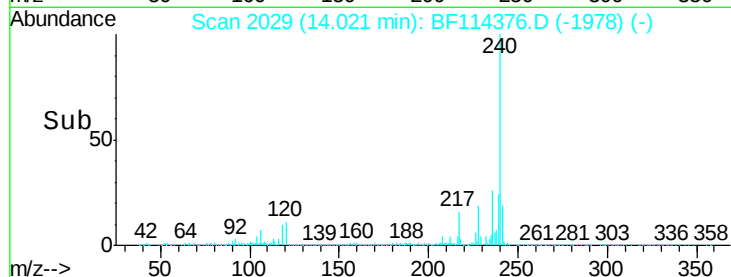
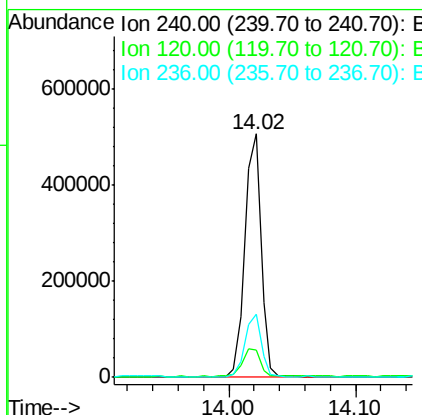
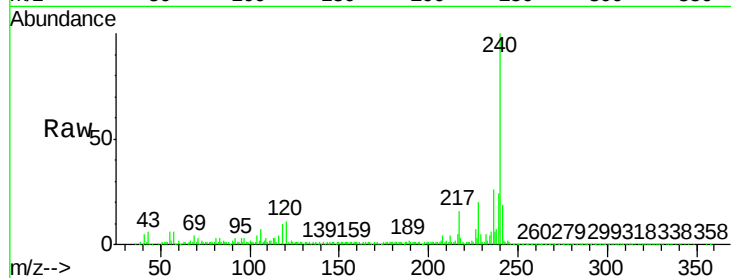




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.02 min Scan# 2029
Delta R.T. -0.00 min
Lab File: BF114376.D
Acq: 18 May 2019 3:48

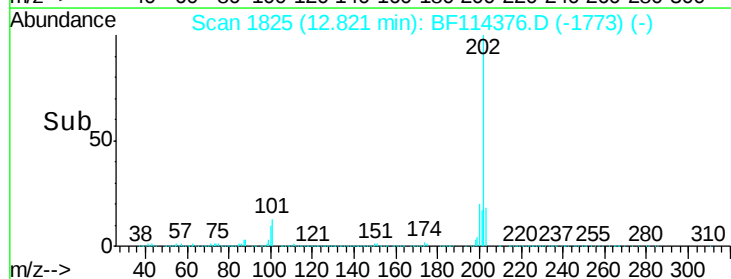
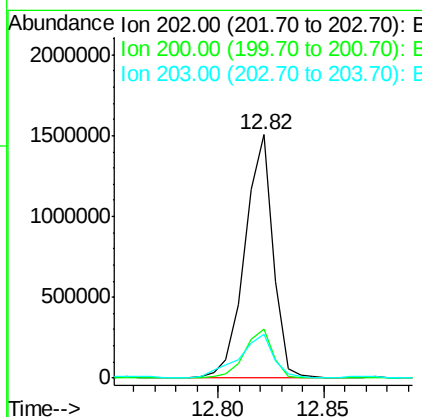
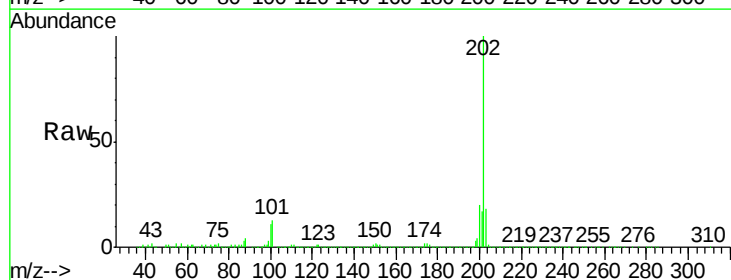
Instrument :
BNA_F
ClientSampleId :

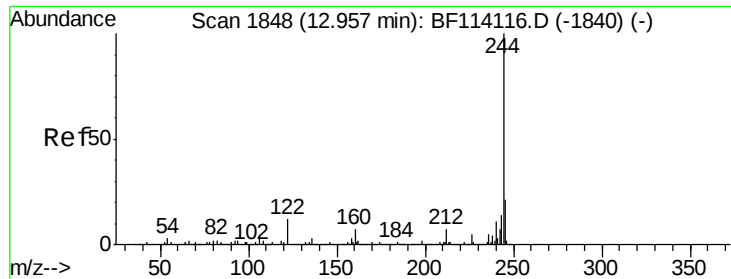
Tot Ion:240 Resp: 449512
Ion Ratio Lower Upper
240 100
120 11.3 8.3 12.5
236 26.0 20.8 31.2



#78
Pyrene
Concen: 38.573 ng
RT: 12.82 min Scan# 1825
Delta R.T. 0.01 min
Lab File: BF114376.D
Acq: 18 May 2019 3:48

Tgt Ion:202 Resp: 1394848
Ion Ratio Lower Upper
202 100
200 20.1 16.9 25.3
203 18.1 14.5 21.7





#79

Terphenyl-d14

Concen: 53.740 ng

RT: 12.96 min Scan# 1848

Delta R.T. -0.00 min

Lab File: BF114376.D

Acq: 18 May 2019 3:48

Instrument :

BNA_F

ClientSampleId :

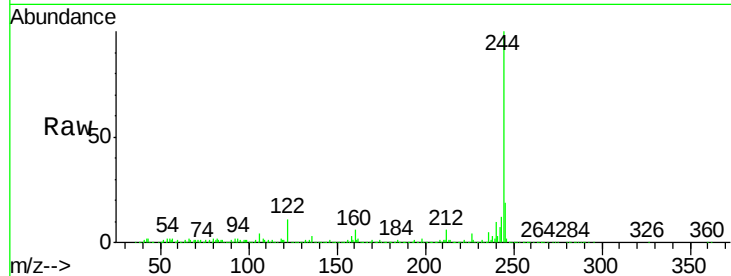
Tot Ion:244 Resp: 1171842

Ion Ratio Lower Upper

244 100

212 6.4 5.8 8.6

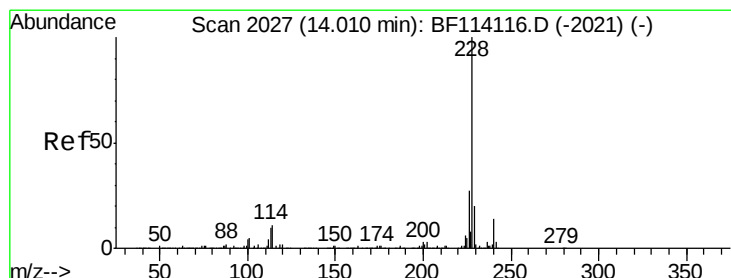
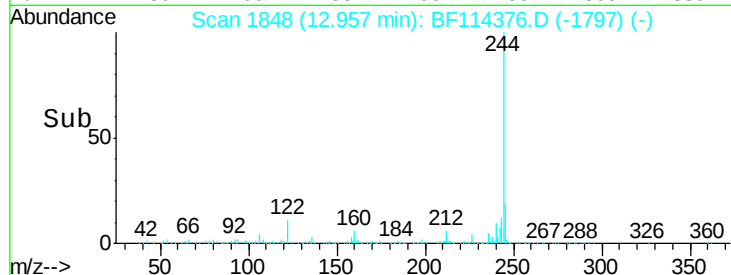
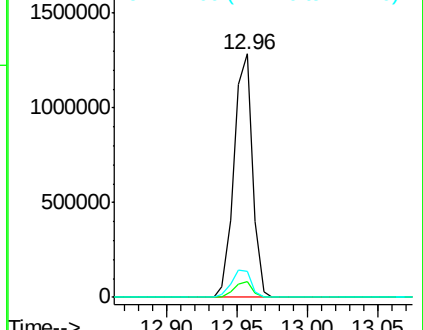
122 10.7 9.4 14.2



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: 22.058 ng

RT: 14.01 min Scan# 2027

Delta R.T. -0.00 min

Lab File: BF114376.D

Acq: 18 May 2019 3:48

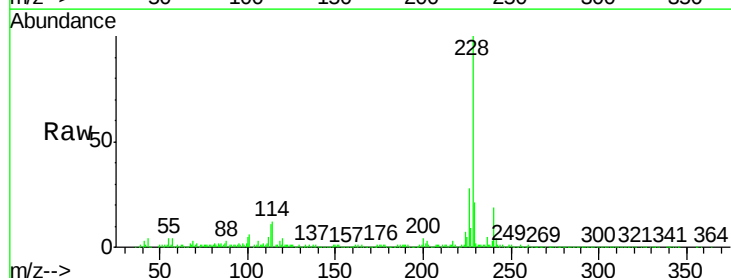
Tgt Ion:228 Resp: 641314

Ion Ratio Lower Upper

228 100

226 27.9 22.2 33.2

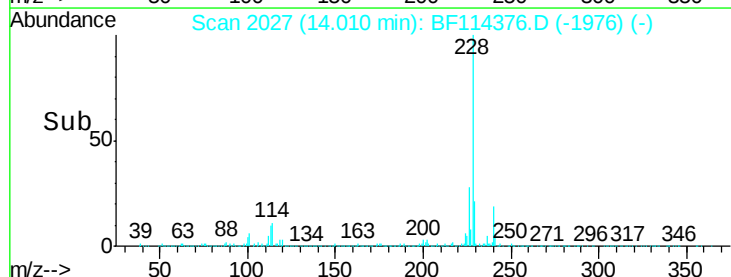
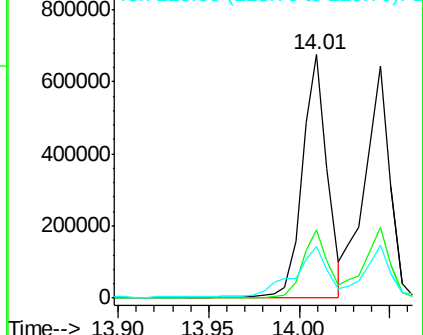
229 21.1 16.4 24.6

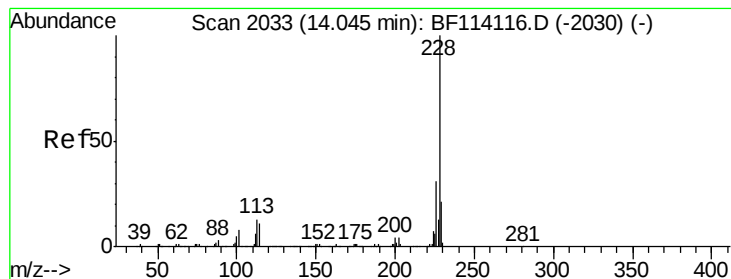


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrvsene

Concen: 20.173 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.00 min

Lab File: BF114376.D

Acq: 18 May 2019 3:48

Instrument :

BNA_F

ClientSampleId :

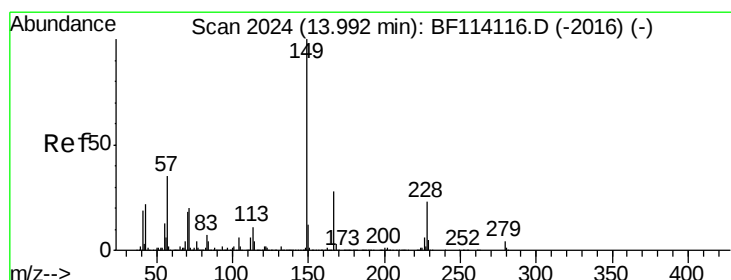
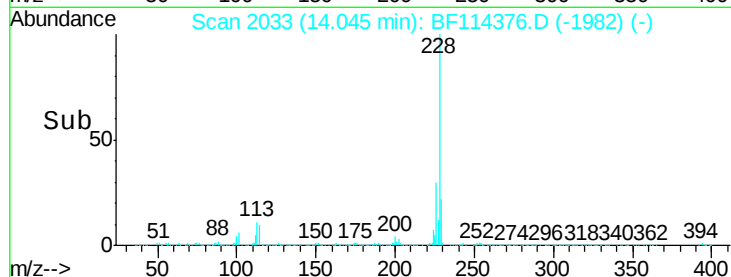
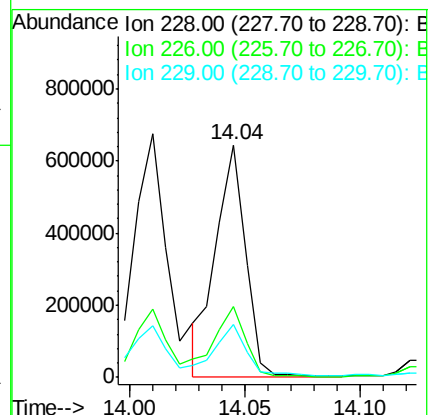
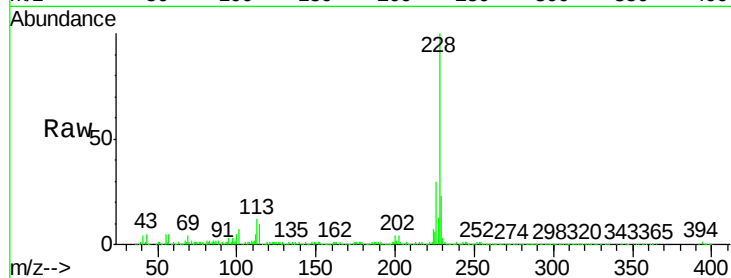
Tot Ion:228 Resp: 574937

Ion	Ratio	Lower	Upper
228	100		
226	30.2	25.0	37.6
229	22.8	17.0	25.6

228 100

226 30.2 25.0 37.6

229 22.8 17.0 25.6



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.788 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF114376.D

Acq: 18 May 2019 3:48

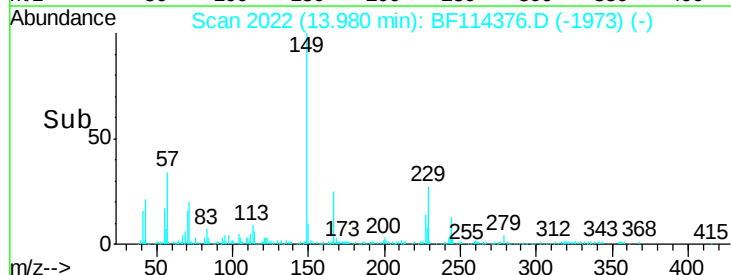
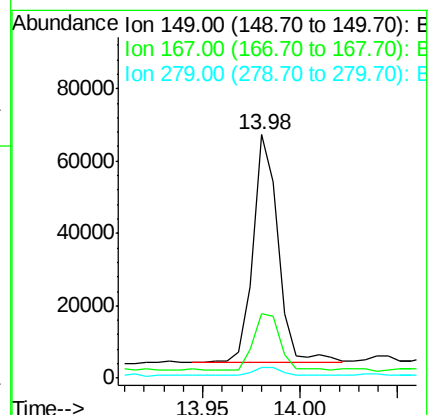
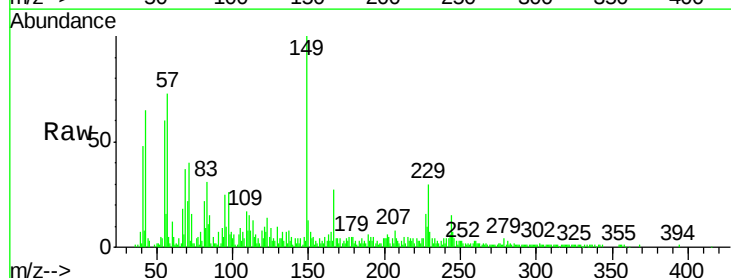
Tgt Ion:149 Resp: 55505

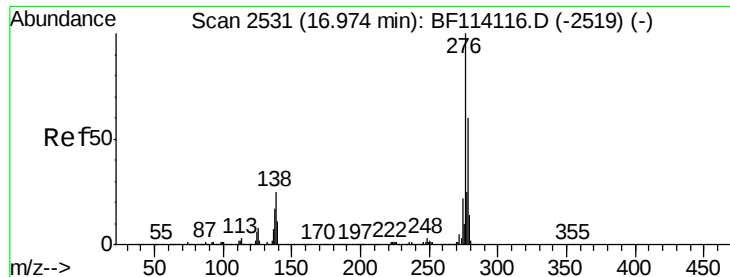
Ion	Ratio	Lower	Upper
149	100		
167	26.6	22.6	33.8
279	4.3	3.0	4.6

149 100

167 26.6 22.6 33.8

279 4.3 3.0 4.6





#86

Indeno(1,2,3-cd)pyrene

Concen: 10.780 ng

RT: 16.99 min Scan# 2533

Delta R.T. 0.01 min

Lab File: BF114376.D

Acq: 18 May 2019 3:48

Instrument :

BNA_F

ClientSampleId :

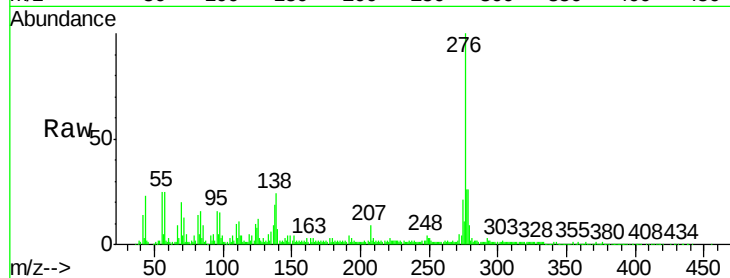
Tot Ion:276 Resp: 271535

Ion Ratio Lower Upper

276 100

138 22.7 20.2 30.2

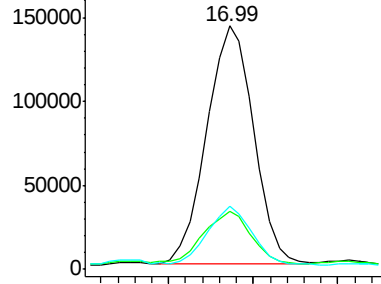
277 23.8 20.0 30.0



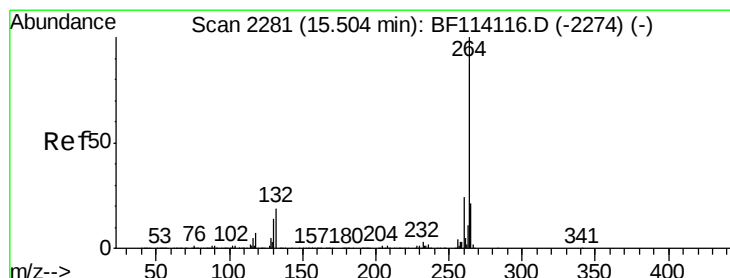
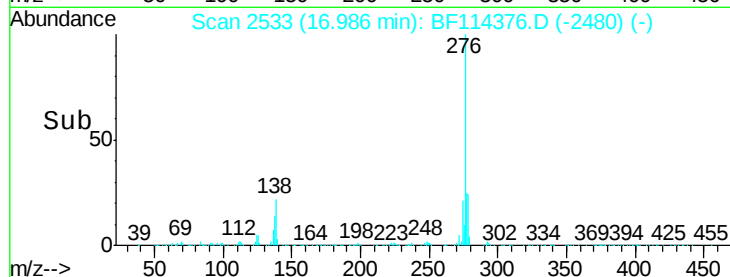
Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



Time-->



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.50 min Scan# 2280

Delta R.T. -0.01 min

Lab File: BF114376.D

Acq: 18 May 2019 3:48

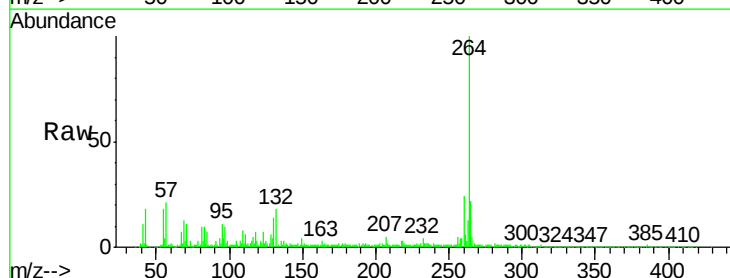
Tgt Ion:264 Resp: 343625

Ion Ratio Lower Upper

264 100

260 23.8 19.4 29.0

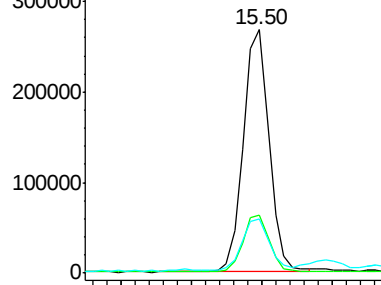
265 22.4 16.9 25.3



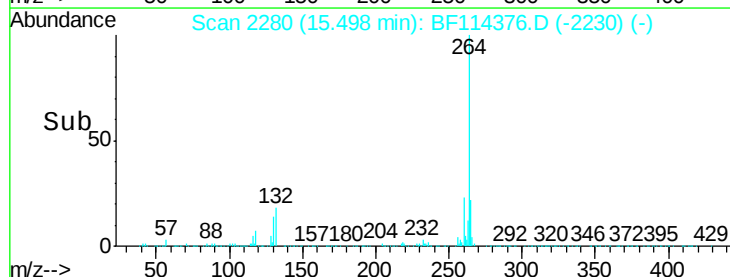
Abundance Ion 264.00 (263.70 to 264.70): E

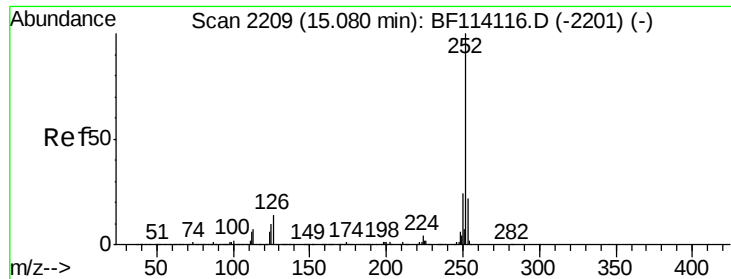
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



Time-->

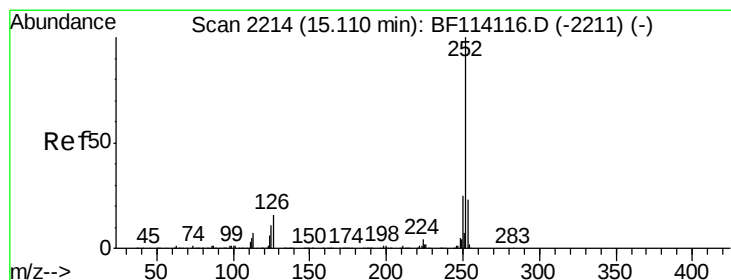
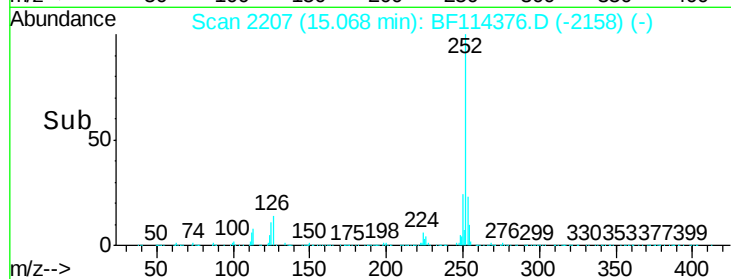
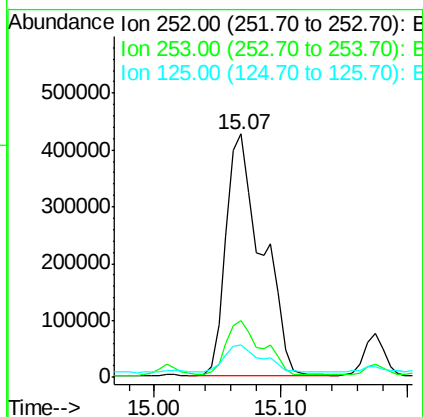
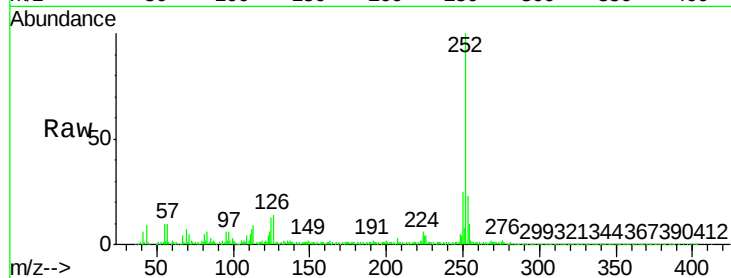




#88
Benzo(b)fluoranthene
Concen: 37.925 ng
RT: 15.07 min Scan# 2207
Delta R.T. -0.01 min
Lab File: BF114376.D
Acq: 18 May 2019 3:48

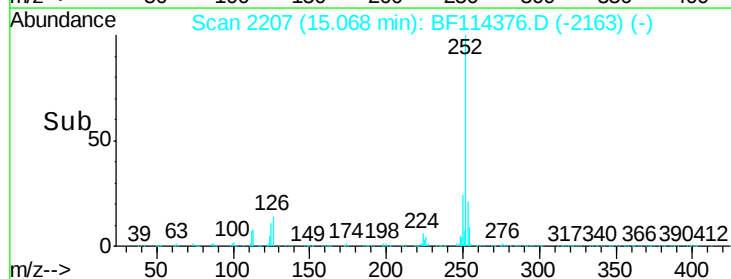
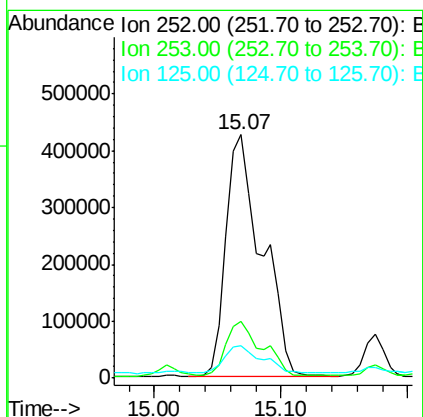
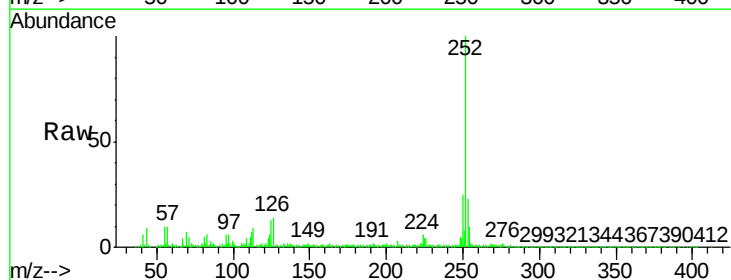
Instrument :
BNA_F
ClientSampleId :

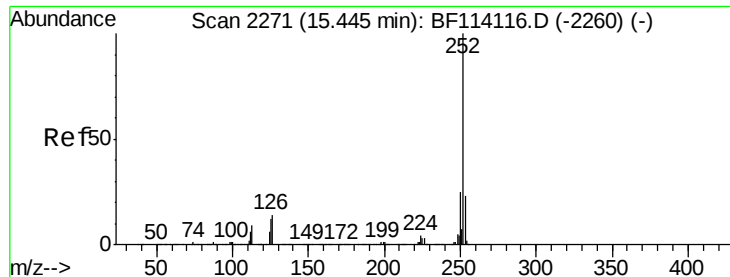
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.8	26.8
125	13.4	8.3	12.5



#89
Benzo(k)fluoranthene
Concen: 41.285 ng
RT: 15.07 min Scan# 2207
Delta R.T. -0.04 min
Lab File: BF114376.D
Acq: 18 May 2019 3:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.2	27.2
125	13.4	8.6	13.0





#90

Benzo(a)pyrene

Concen: 21.098 ng

RT: 15.43 min Scan# 2269

Delta R.T. -0.01 min

Lab File: BF114376.D

Acq: 18 May 2019 3:48

Instrument :

BNA_F

ClientSampleId :

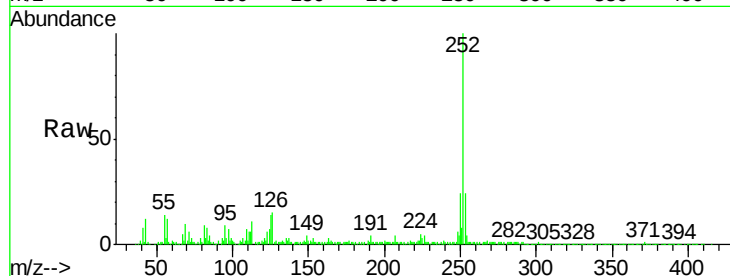
Tot Ion:252 Resp: 408764

Ion Ratio Lower Upper

252 100

253 23.8 18.1 27.1

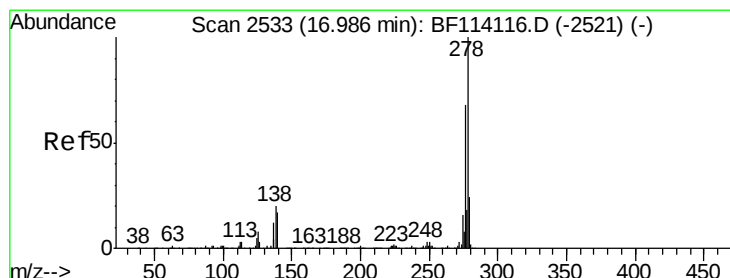
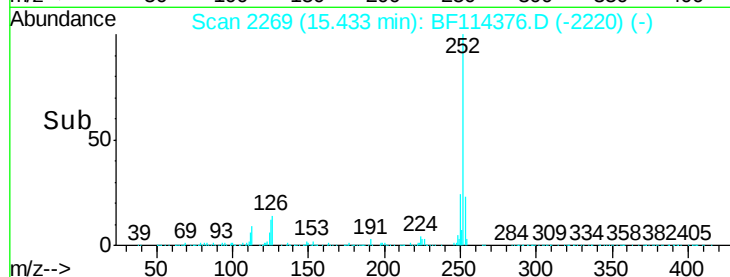
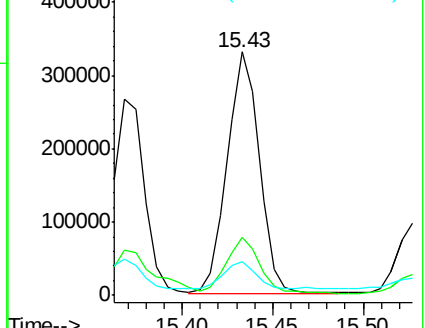
125 14.1 9.5 14.3



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: 4.995 ng

RT: 16.99 min Scan# 2533

Delta R.T. -0.00 min

Lab File: BF114376.D

Acq: 18 May 2019 3:48

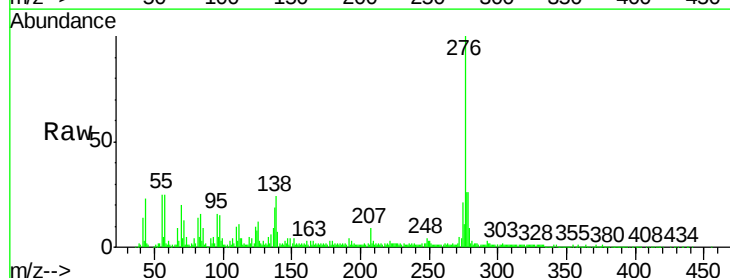
Tgt Ion:278 Resp: 80410

Ion Ratio Lower Upper

278 100

139 25.8 13.5 20.3#

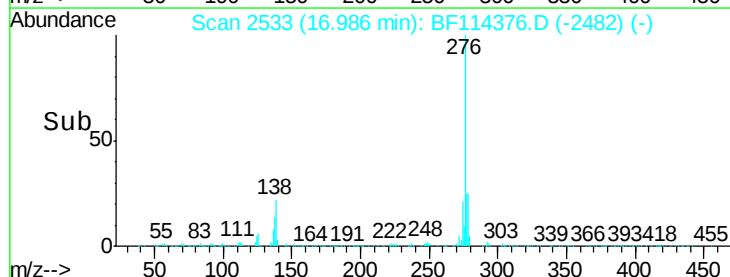
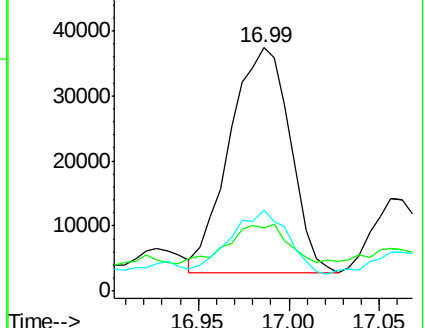
279 33.1 19.0 28.6#

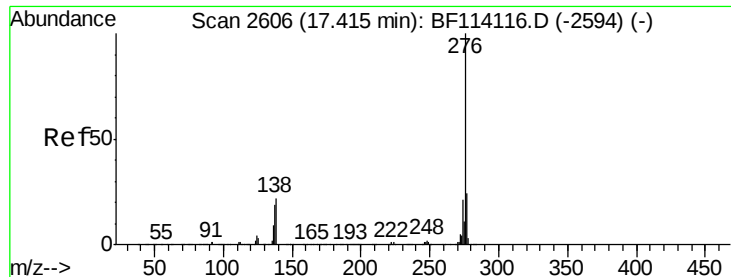


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

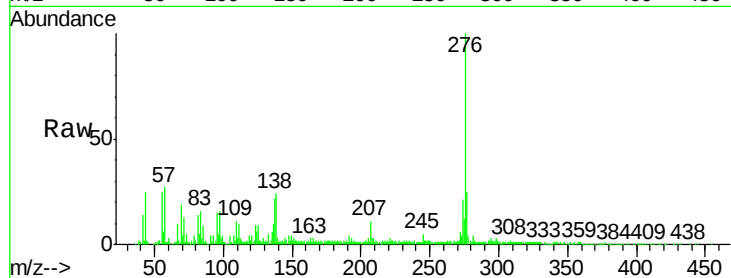




#92
 Benzo(a,h,i)perylene
 Concen: 17.942 ng
 RT: 17.44 min Scan# 2610
 Delta R.T. 0.02 min
 Lab File: BF114376.D
 Acq: 18 May 2019 3:48

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.0	28.4
138	23.6	17.8	26.6



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

