

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051319\
 Data File : BF114253.D
 Acq On : 14 May 2019 10:16
 Operator : JU/SJ
 Sample : K2764-12DL 2X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 14 12:07:09 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	220932	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	849887	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	390661	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	716263	20.00	ng	0.00
76) Chrysene-d12	14.02	240	494223	20.00	ng	0.00
87) Perylene-d12	15.50	264	458281	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	839728	61.17	ng	0.00
7) Phenol-d6	6.50	99	1108529	68.27	ng	0.00
23) Nitrobenzene-d5	7.42	82	665030	43.91	ng	0.00
42) 2,4,6-Tribromophenol	10.68	330	245350	60.75	ng	0.00
45) 2-Fluorobiphenyl	9.21	172	1146592	44.40	ng	0.00
79) Terphenyl-d14	12.96	244	981656	40.95	ng	0.00

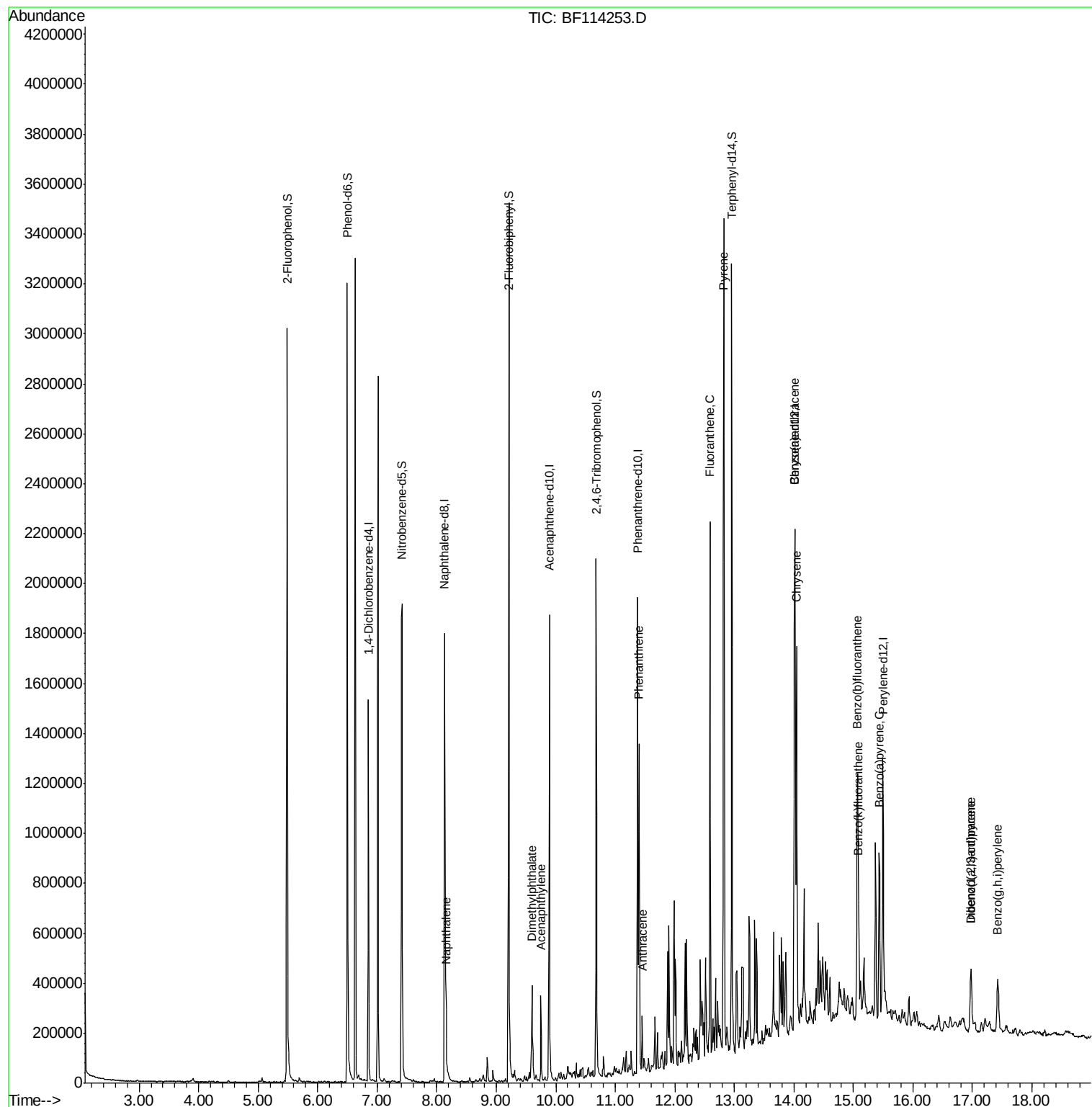
Target Compounds				Qvalue		
31) Naphthalene	8.16	128	101102	2.547	ng	95
49) Acenaphthylene	9.75	152	143636	3.718	ng	97
50) Dimethylphthalate	9.60	163	163183	5.690	ng	99
71) Phenanthrene	11.40	178	461183	13.234	ng	98
72) Anthracene	11.45	178	89072	2.545	ng	98
75) Fluoranthene	12.59	202	774202	20.631	ng	98
78) Pyrene	12.82	202	1373315	34.542	ng	99
81) Benzo(a)anthracene	14.01	228	452681m	14.161	ng	
83) Chrysene	14.04	228	557368	17.787	ng	98
86) Indeno(1,2,3-cd)pyrene	16.97	276	171364	6.188	ng	96
88) Benzo(b)fluoranthene	15.07	252	531286m	18.096	ng	
89) Benzo(k)fluoranthene	15.09	252	130737m	4.847	ng	
90) Benzo(a)pyrene	15.43	252	274326	10.617	ng	99
91) Dibenzo(a,h)anthracene	16.98	278	48629m	2.265	ng	
92) Benzo(a,h,i)perylene	17.43	276	189866	8.824	ng	96

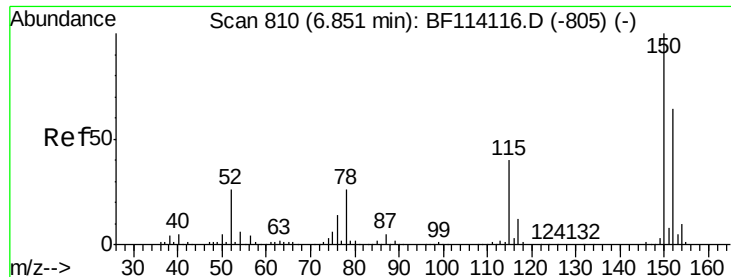
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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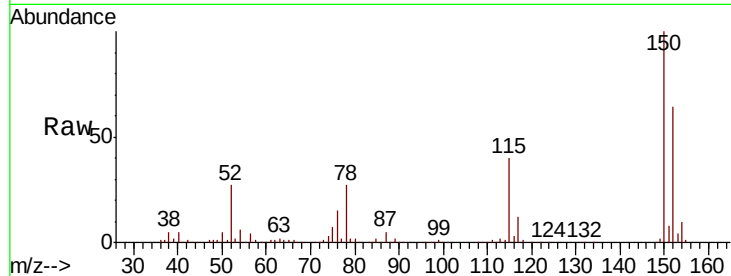




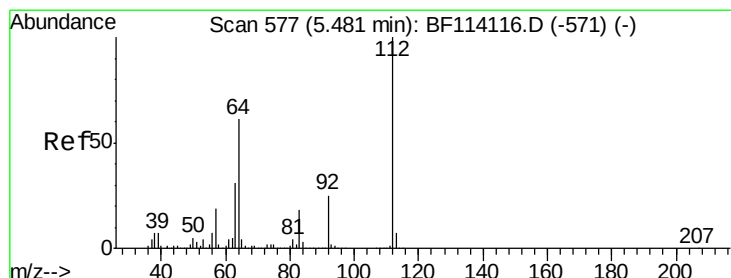
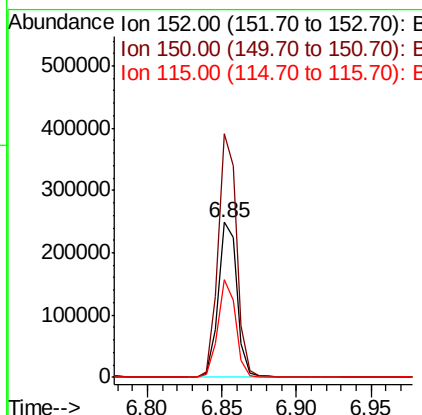
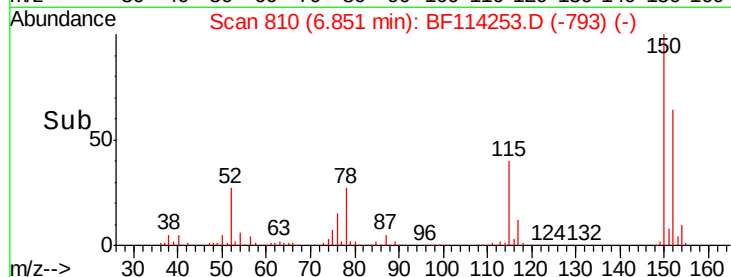
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.85 min Scan# 810
 Delta R.T. 0.00 min
 Lab File: BF114253.D
 Acq: 14 May 2019 10:16

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 220932
 Ion Ratio Lower Upper
 152 100
 150 157.0 124.3 186.5
 115 62.9 49.1 73.7

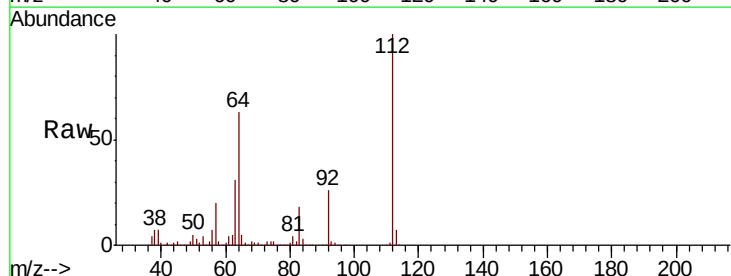


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

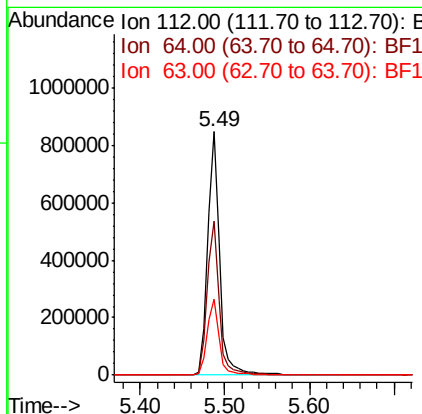
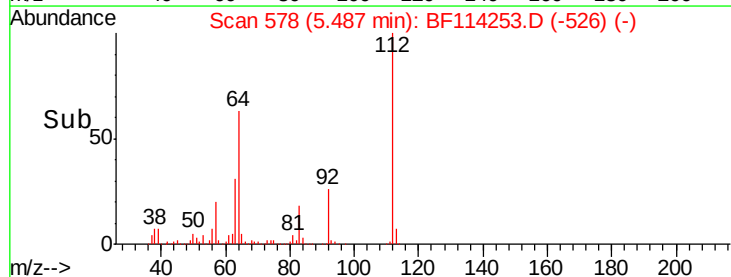


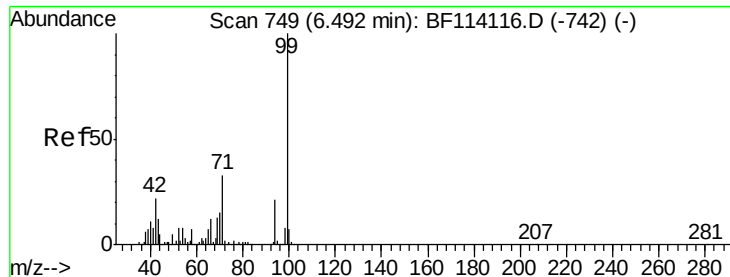
#5
 2-Fluorophenol
 Concen: 61.166 ng
 RT: 5.49 min Scan# 578
 Delta R.T. 0.01 min
 Lab File: BF114253.D
 Acq: 14 May 2019 10:16

Tgt Ion:112 Resp: 839728
 Ion Ratio Lower Upper
 112 100
 64 63.2 49.0 73.6
 63 31.3 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: 68.270 ng

RT: 6.50 min Scan# 750

Delta R.T. 0.01 min

Lab File: BF114253.D

Acq: 14 May 2019 10:16

Instrument :

BNA_F

ClientSampled :

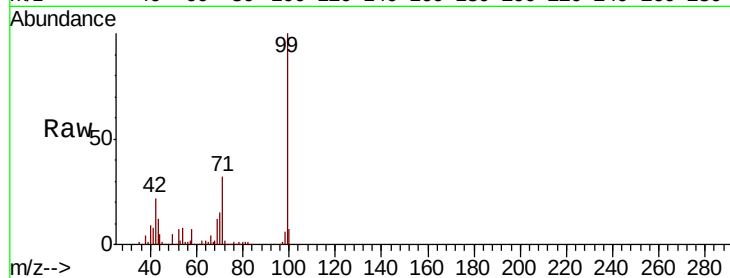
Tot Ion: 99 Resp: 1108529

Ion Ratio Lower Upper

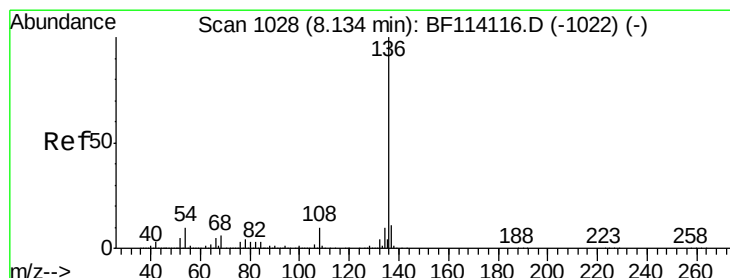
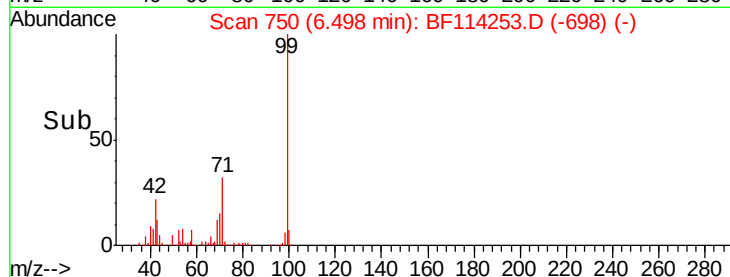
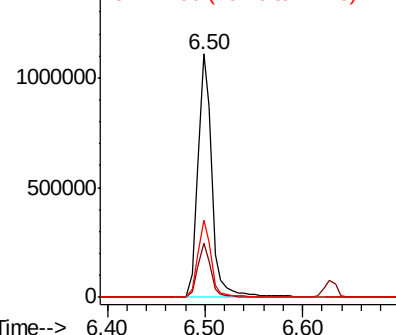
99 100

42 22.4 17.9 26.9

71 31.9 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# 1028

Delta R.T. 0.00 min

Lab File: BF114253.D

Acq: 14 May 2019 10:16

Tgt Ion: 136 Resp: 849887

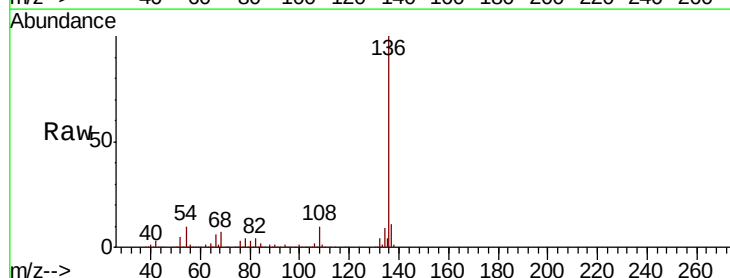
Ion Ratio Lower Upper

136 100

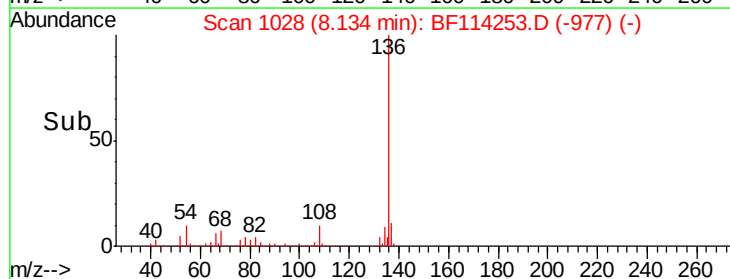
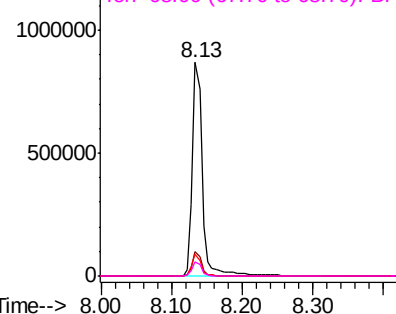
137 11.5 8.8 13.2

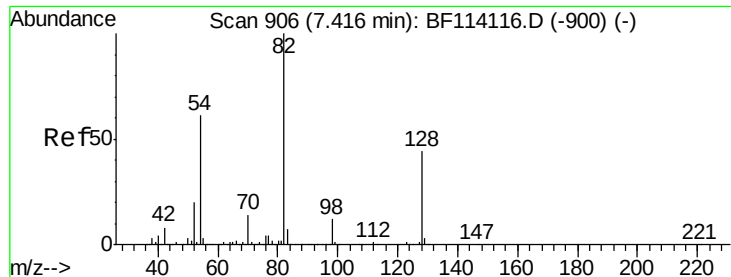
54 10.3 7.8 11.8

68 6.9 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

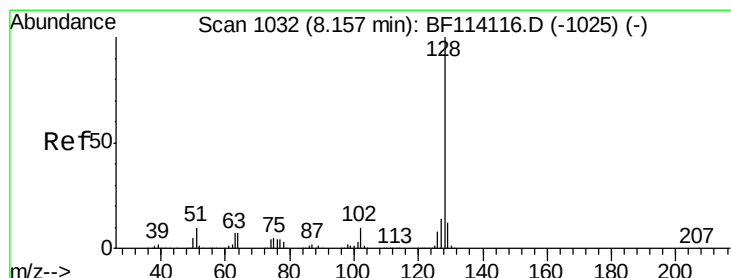
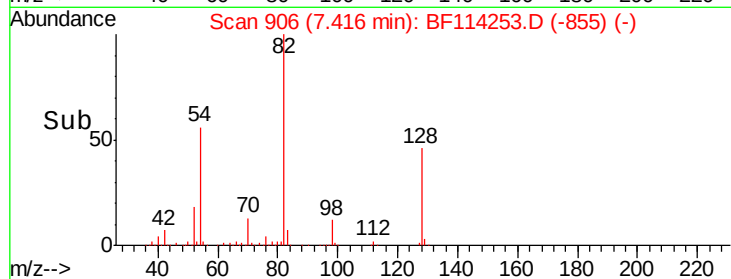
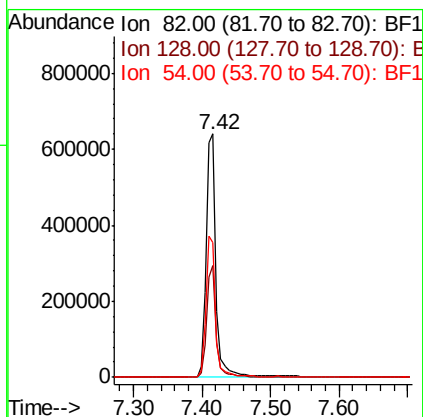
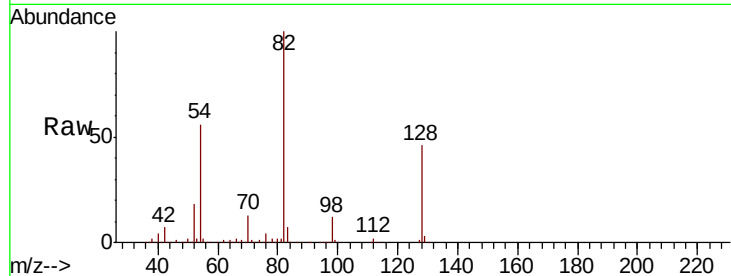




#23
 Nitrobenzene-d5
 Concen: 43.914 ng
 RT: 7.42 min Scan# 906
 Delta R.T. 0.00 min
 Lab File: BF114253.D
 Acq: 14 May 2019 10:16

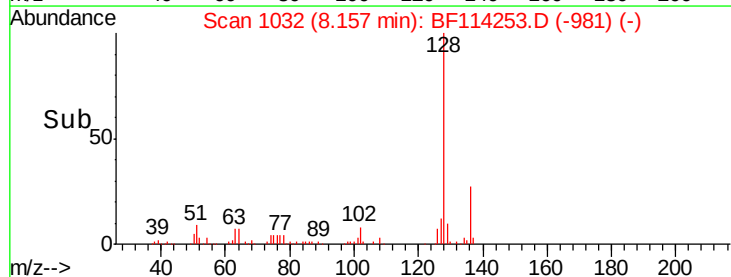
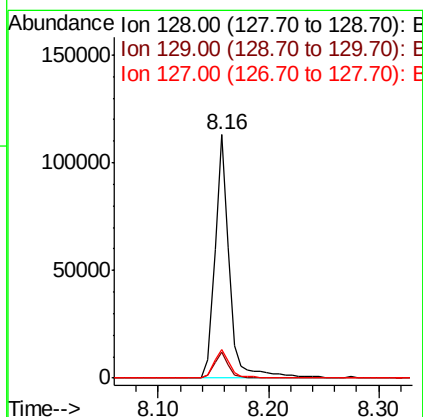
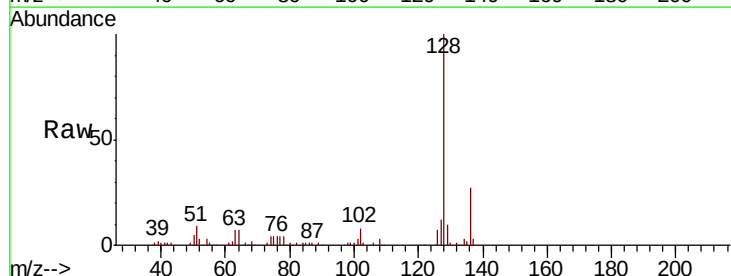
Instrument :
 BNA_F
 ClientSampleId :

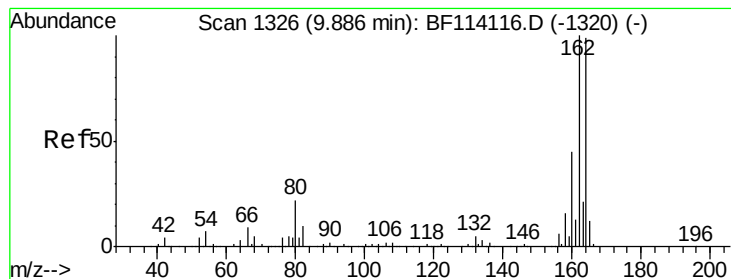
Tot Ion	Ratio	Lower	Upper
82	100		
128	46.2	35.5	53.3
54	55.6	48.5	72.7



#31
 Naphthalene
 Concen: 2.547 ng
 RT: 8.16 min Scan# 1032
 Delta R.T. 0.00 min
 Lab File: BF114253.D
 Acq: 14 May 2019 10:16

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.5	9.6	14.4
127	11.8	11.3	16.9





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.89 min Scan# 1327

Delta R.T. 0.01 min

Lab File: BF114253.D

Acq: 14 May 2019 10:16

Instrument :

BNA_F

ClientSampleId :

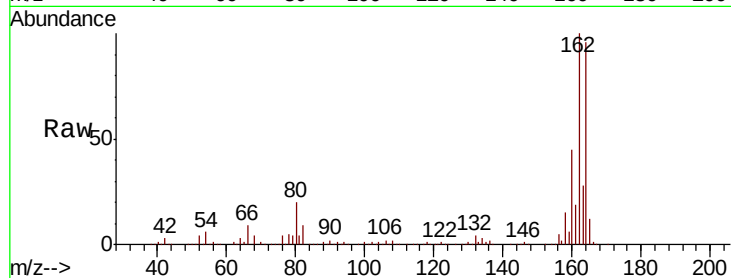
Tot Ion:164 Resp: 390661

Ion Ratio Lower Upper

164 100

162 104.0 80.6 120.8

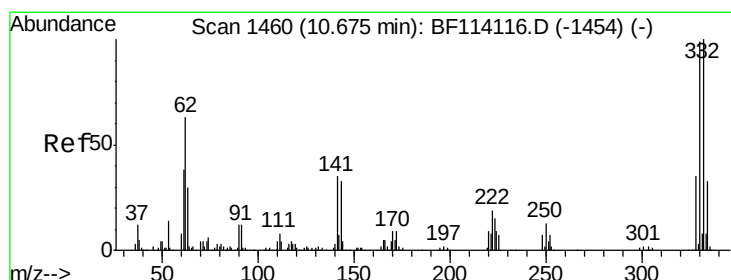
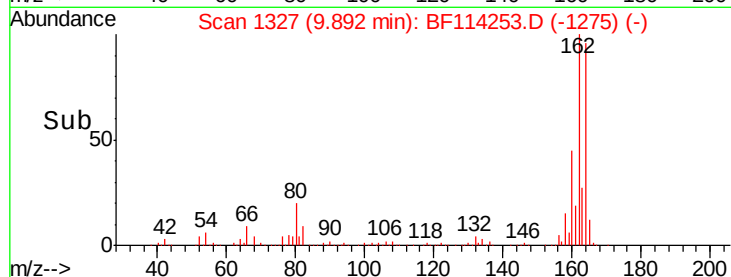
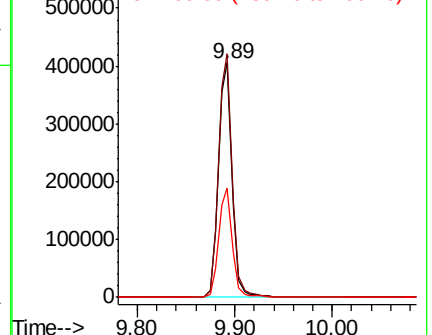
160 46.6 36.5 54.7



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: 60.749 ng

RT: 10.68 min Scan# 1461

Delta R.T. 0.01 min

Lab File: BF114253.D

Acq: 14 May 2019 10:16

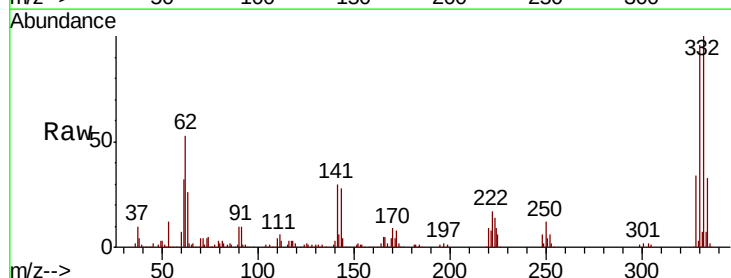
Tgt Ion:330 Resp: 245350

Ion Ratio Lower Upper

330 100

332 102.6 81.4 122.2

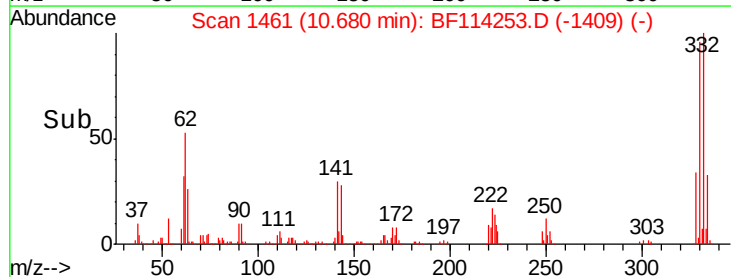
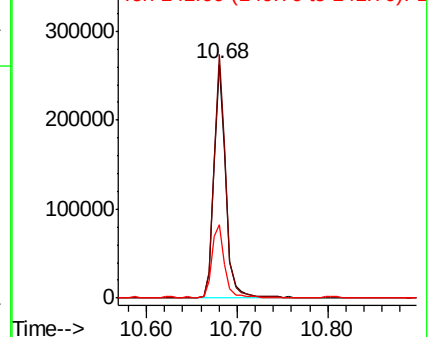
141 32.8 26.6 40.0

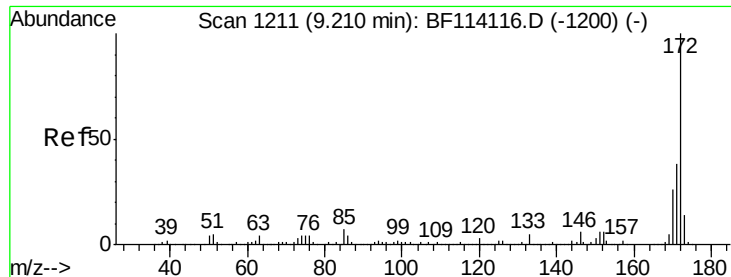


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



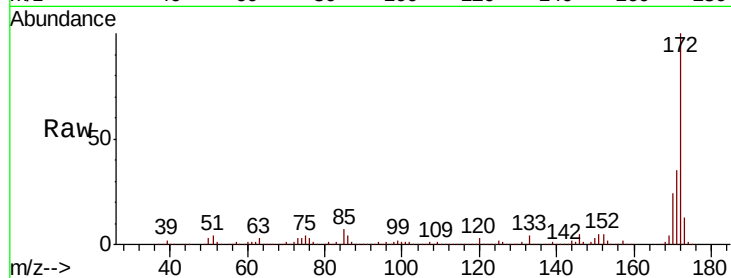


#45
 2-Fluorobiphenyl
 Concen: 44.397 ng
 RT: 9.21 min Scan# 1211
 Delta R.T. 0.00 min
 Lab File: BF114253.D
 Acq: 14 May 2019 10:16

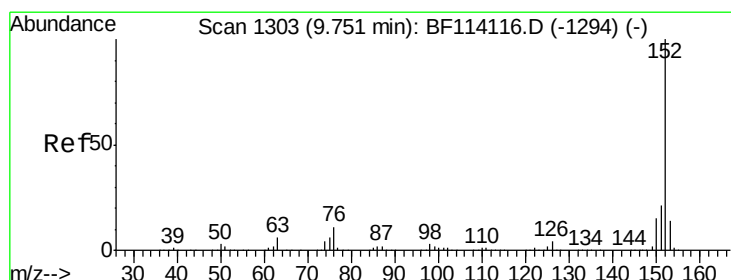
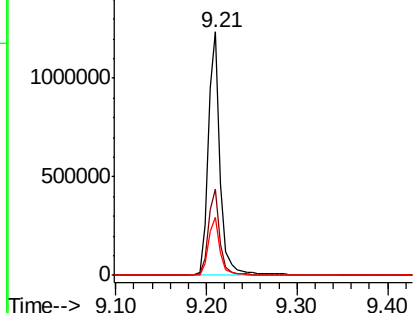
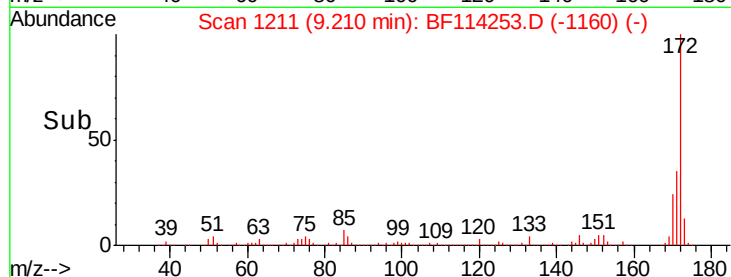
Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 1146592

Ion	Ratio	Lower	Upper
172	100		
171	35.4	30.7	46.1
170	23.7	20.5	30.7



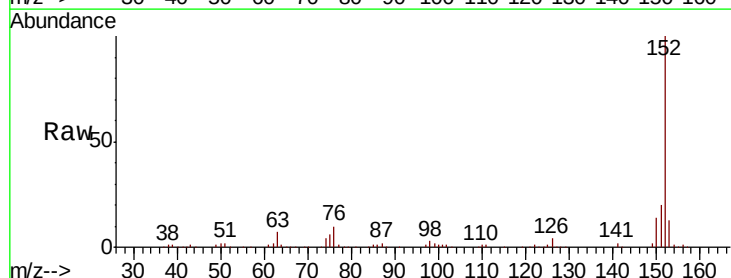
Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E



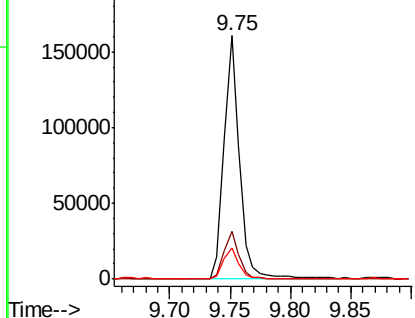
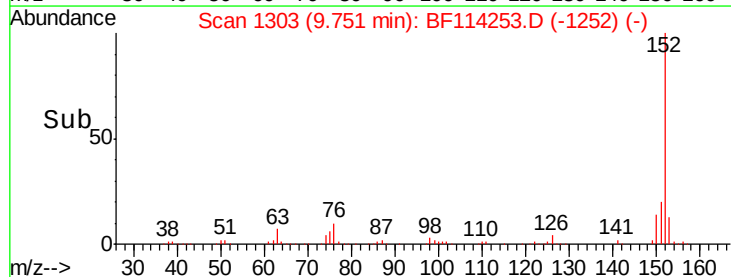
#49
 Acenaphthylene
 Concen: 3.718 ng
 RT: 9.75 min Scan# 1303
 Delta R.T. 0.00 min
 Lab File: BF114253.D
 Acq: 14 May 2019 10:16

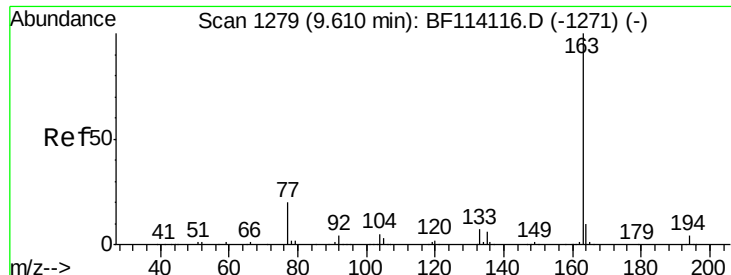
Tgt Ion:152 Resp: 143636

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.8	25.2
153	12.9	11.4	17.2



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: 5.690 ng

RT: 9.60 min Scan# 1277

Delta R.T. -0.01 min

Lab File: BF114253.D

Acq: 14 May 2019 10:16

Instrument :

BNA_F

ClientSampleId :

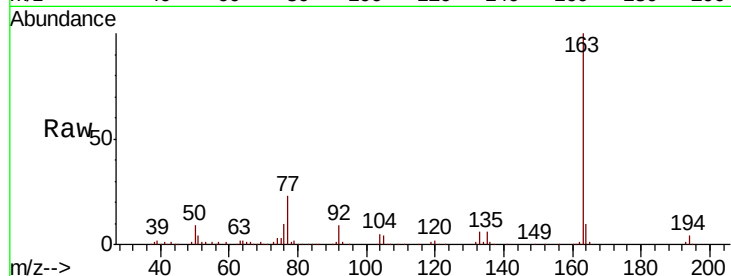
Tot Ion:163 Resp: 163183

Ion Ratio Lower Upper

163 100

194 3.6 3.4 5.0

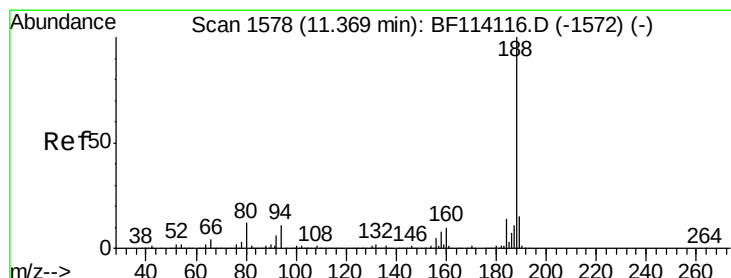
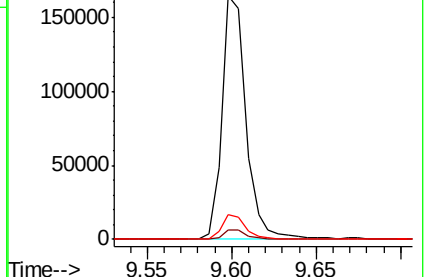
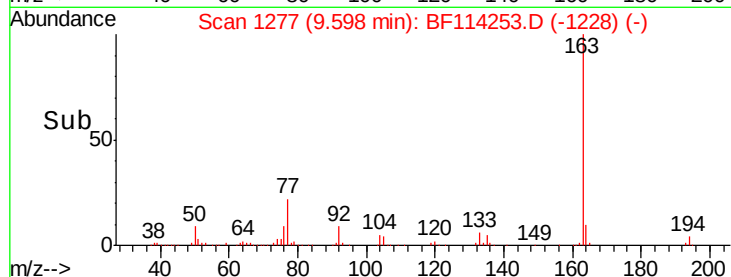
164 10.3 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.37 min Scan# 1579

Delta R.T. 0.01 min

Lab File: BF114253.D

Acq: 14 May 2019 10:16

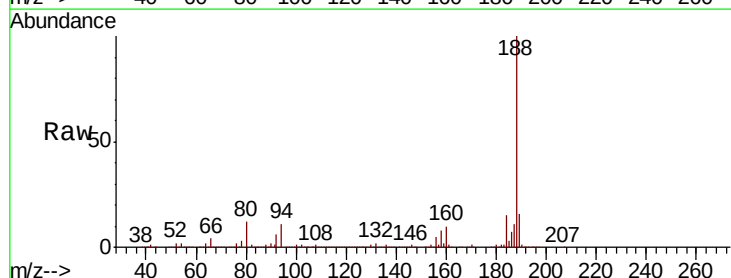
Tgt Ion:188 Resp: 716263

Ion Ratio Lower Upper

188 100

94 11.1 8.4 12.6

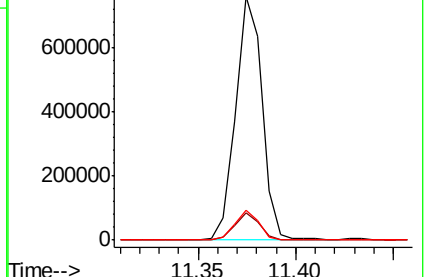
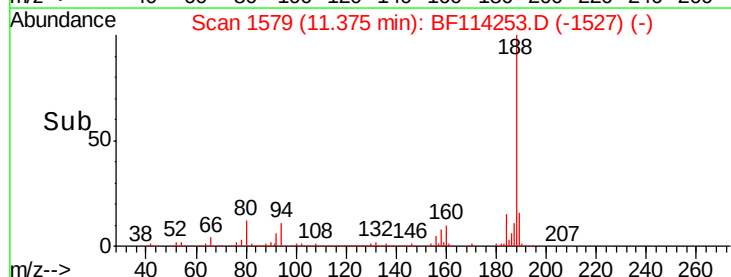
80 12.1 9.2 13.8

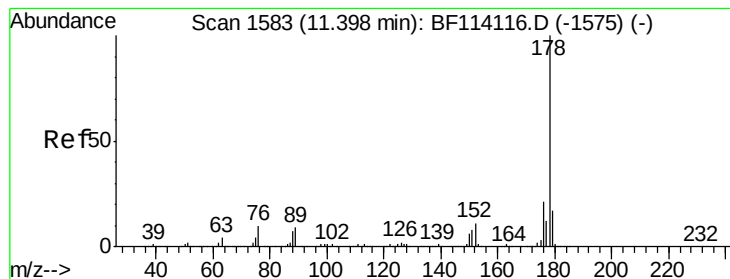


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#71

Phenanthrene

Concen: 13.234 ng

RT: 11.40 min Scan# 1583

Delta R.T. 0.00 min

Lab File: BF114253.D

Acq: 14 May 2019 10:16

Instrument :

BNA_F

ClientSampleId :

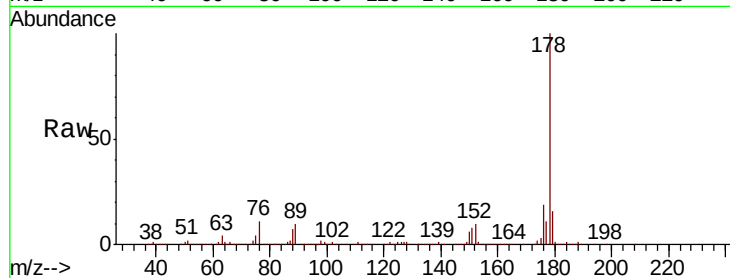
Tot Ion:178 Resp: 461183

Ion Ratio Lower Upper

178 100

176 19.4 16.4 24.6

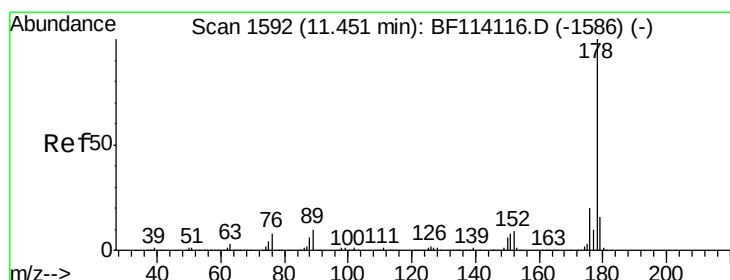
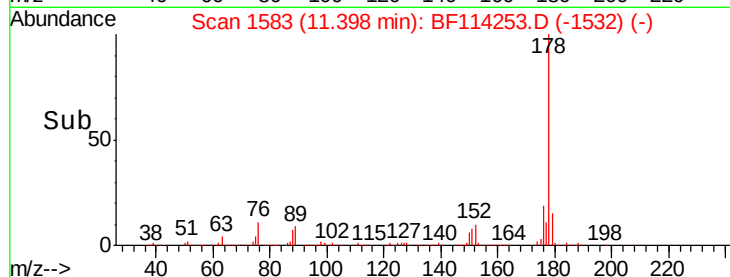
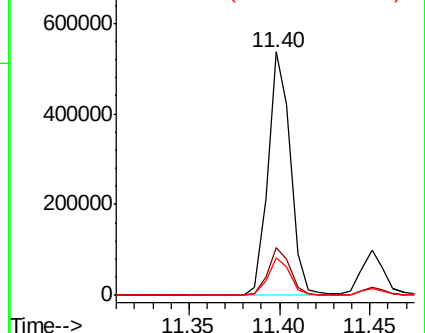
179 15.5 13.2 19.8



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: 2.545 ng

RT: 11.45 min Scan# 1592

Delta R.T. 0.00 min

Lab File: BF114253.D

Acq: 14 May 2019 10:16

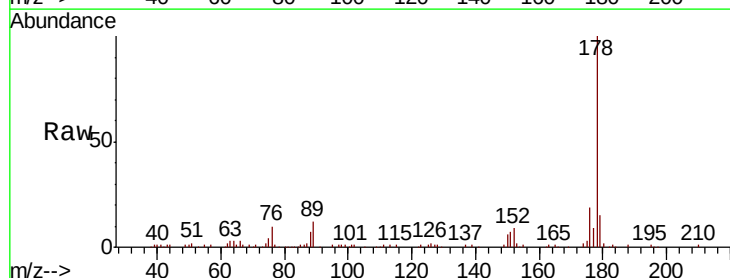
Tgt Ion:178 Resp: 89072

Ion Ratio Lower Upper

178 100

176 19.0 15.8 23.8

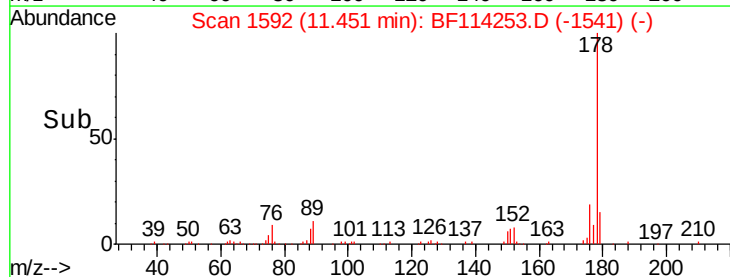
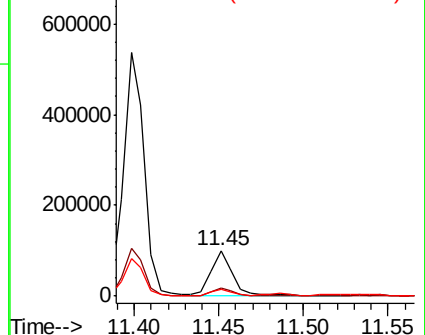
179 15.5 13.0 19.4

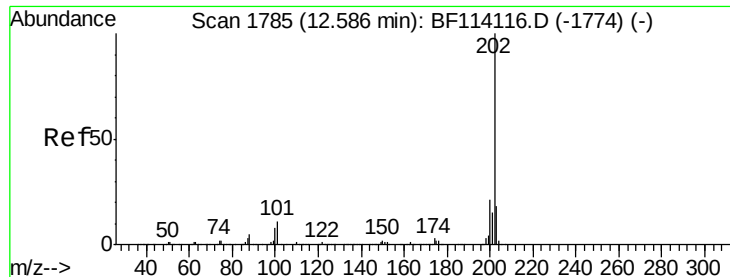


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 20.631 ng

RT: 12.59 min Scan# 1786

Delta R.T. 0.01 min

Lab File: BF114253.D

Acq: 14 May 2019 10:16

Instrument :

BNA_F

ClientSampleId :

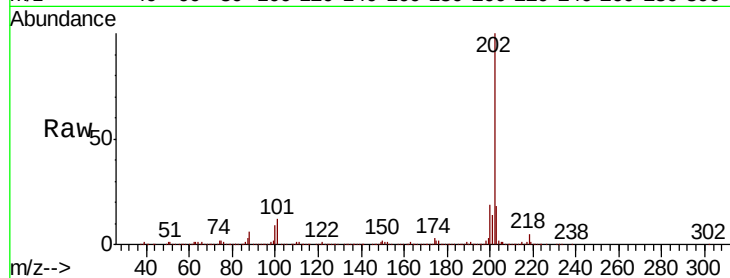
Tot Ion:202 Resp: 774202

Ion Ratio Lower Upper

202 100

101 12.1 0.0 31.0

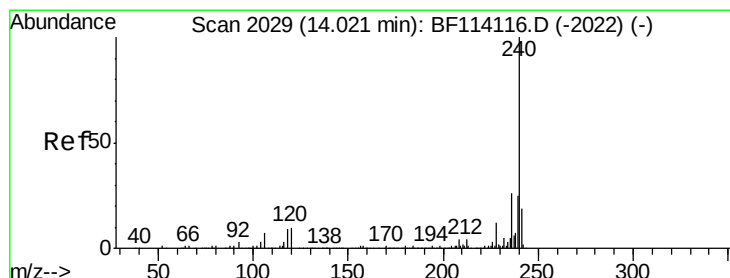
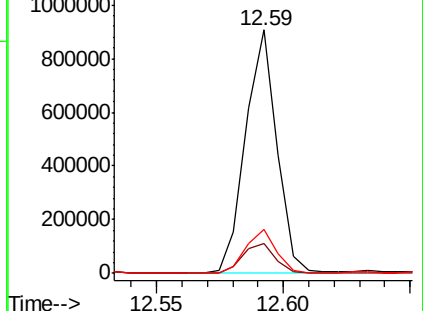
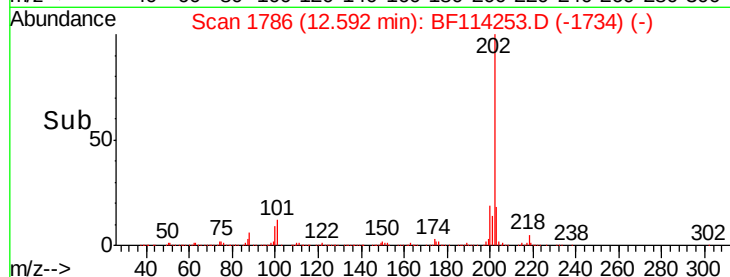
203 17.8 0.0 38.4



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: BF114253.D

Acq: 14 May 2019 10:16

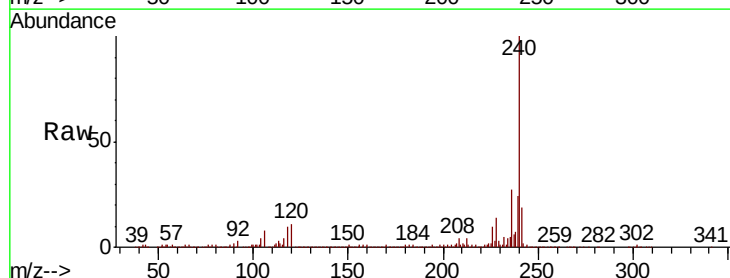
Tgt Ion:240 Resp: 494223

Ion Ratio Lower Upper

240 100

120 11.4 8.3 12.5

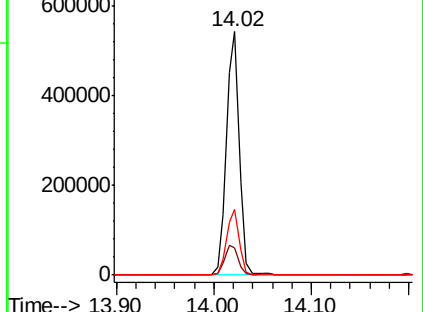
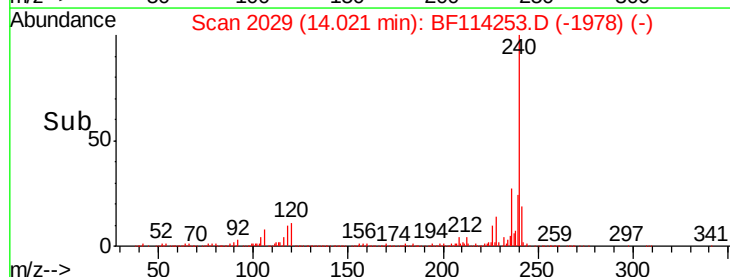
236 27.0 20.8 31.2

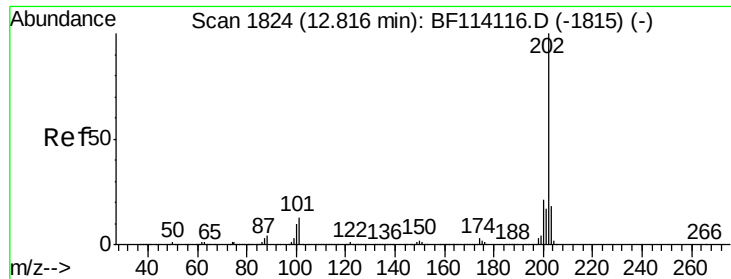


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 34.542 ng

RT: 12.82 min Scan# 1825

Delta R.T. 0.01 min

Lab File: BF114253.D

Acq: 14 May 2019 10:16

Instrument :

BNA_F

ClientSampleId :

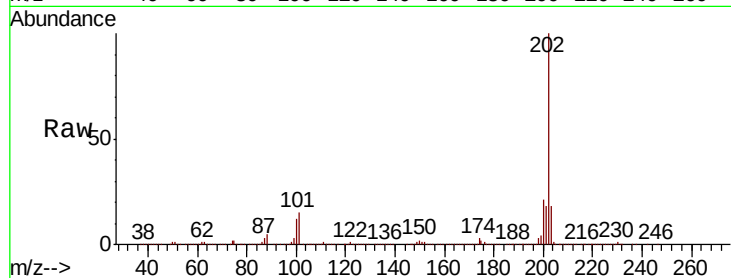
Tot Ion:202 Resp: 1373315

Ion Ratio Lower Upper

202 100

200 20.5 16.9 25.3

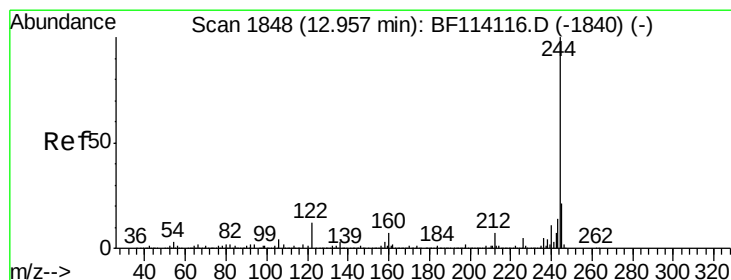
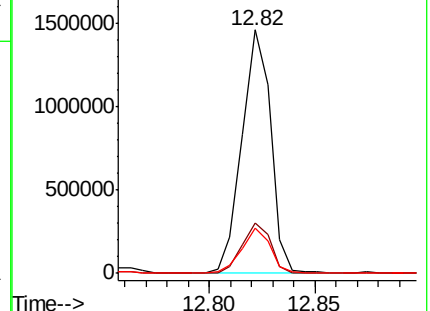
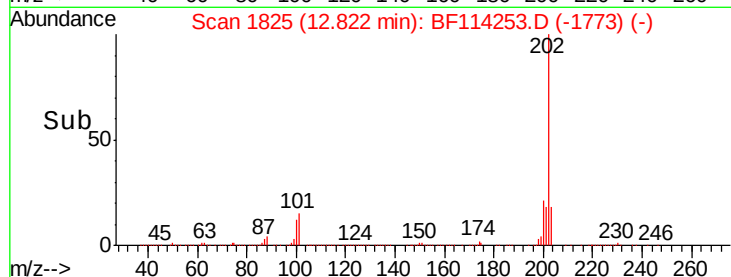
203 18.4 14.5 21.7



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: 40.945 ng

RT: 12.96 min Scan# 1848

Delta R.T. 0.00 min

Lab File: BF114253.D

Acq: 14 May 2019 10:16

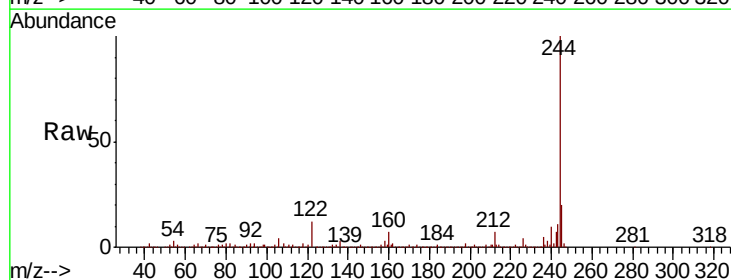
Tgt Ion:244 Resp: 981656

Ion Ratio Lower Upper

244 100

212 6.7 5.8 8.6

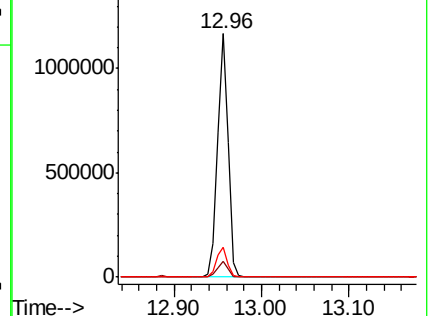
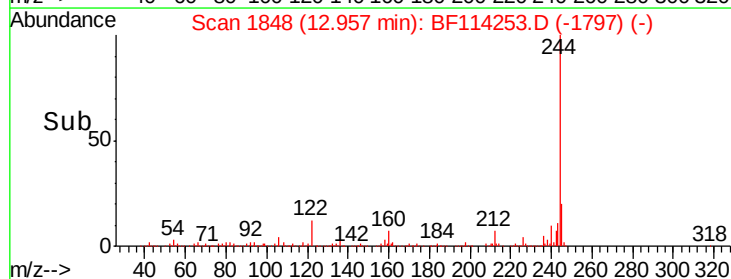
122 12.3 9.4 14.2

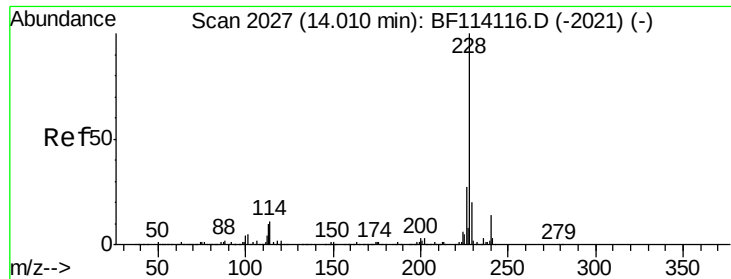


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

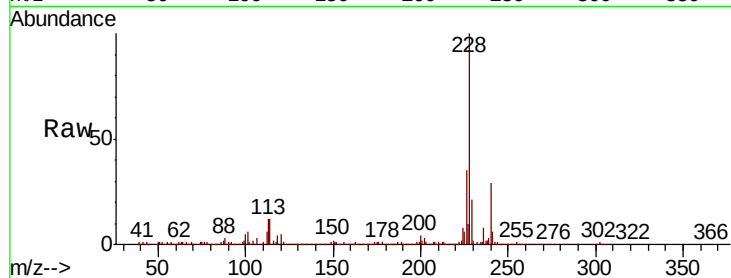




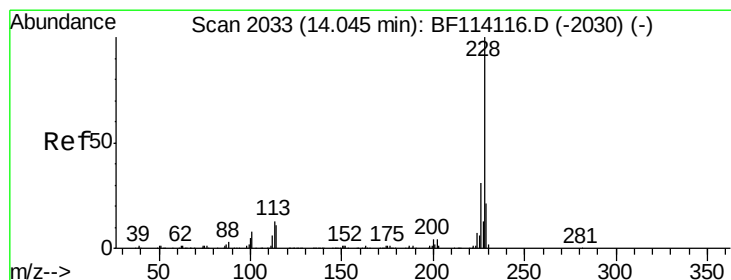
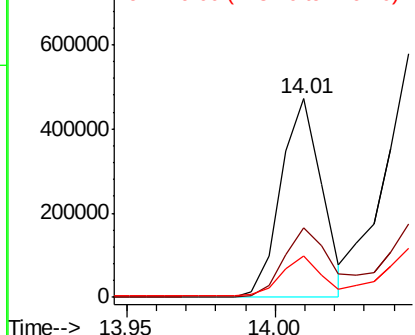
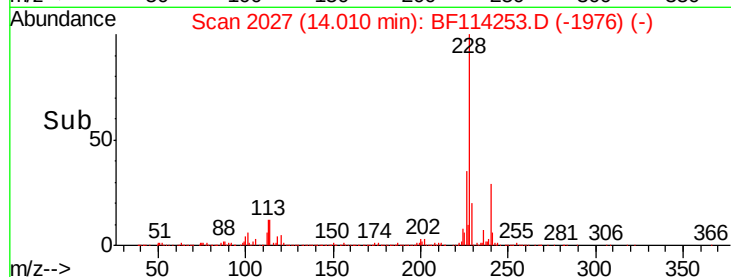
#81
Benzo(a)anthracene
Concen: 14.161 ng m
RT: 14.01 min Scan# 2027
Delta R.T. 0.00 min
Lab File: BF114253.D
Acq: 14 May 2019 10:16

Instrument :
BNA_F
ClientSampleId :

Tot Ion:228 Resp: 452681
Ion Ratio Lower Upper
228 100
226 35.1 22.2 33.2#
229 20.6 16.4 24.6

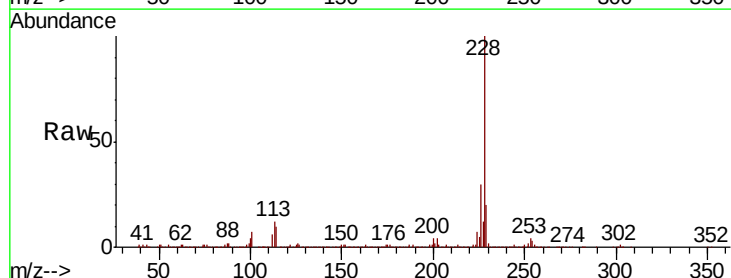


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

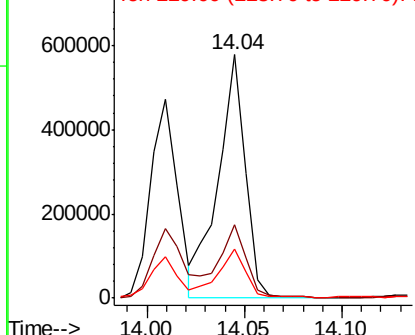
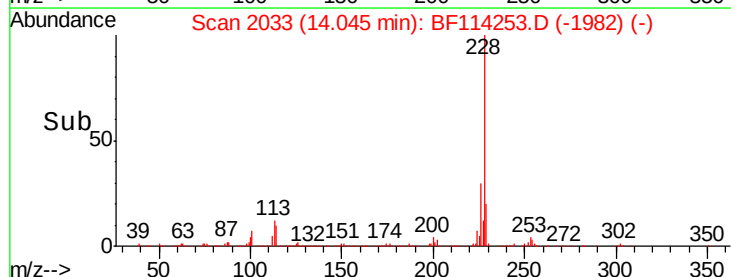


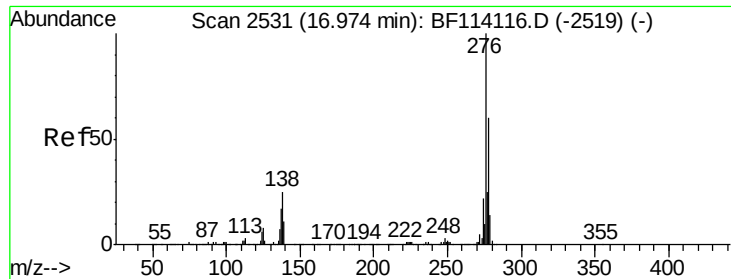
#83
Chrysene
Concen: 17.787 ng
RT: 14.04 min Scan# 2033
Delta R.T. 0.00 min
Lab File: BF114253.D
Acq: 14 May 2019 10:16

Tgt Ion:228 Resp: 557368
Ion Ratio Lower Upper
228 100
226 30.1 25.0 37.6
229 20.1 17.0 25.6



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

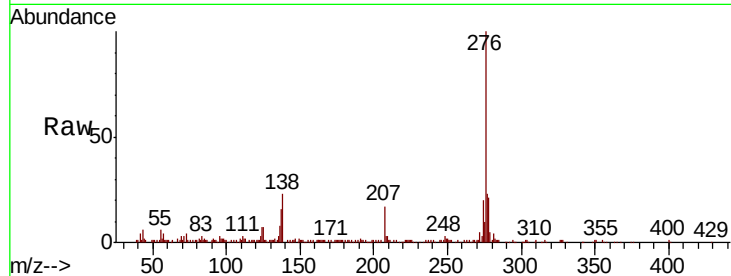




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 6.188 ng
 RT: 16.97 min Scan# 2531
 Delta R.T. 0.00 min
 Lab File: BF114253.D
 Acq: 14 May 2019 10:16

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	23.0	20.2	30.2
277	23.1	20.0	30.0

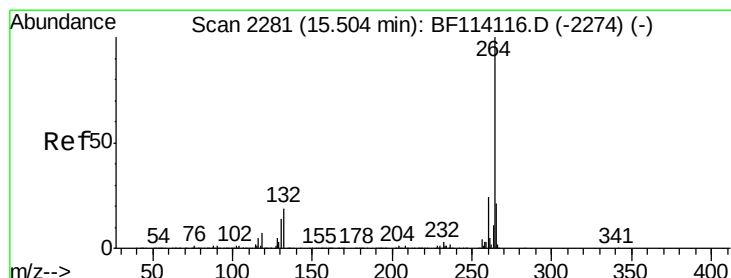
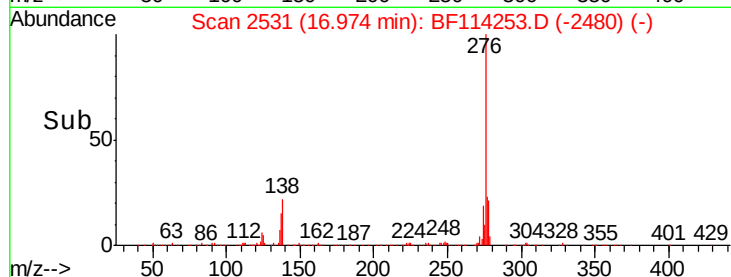
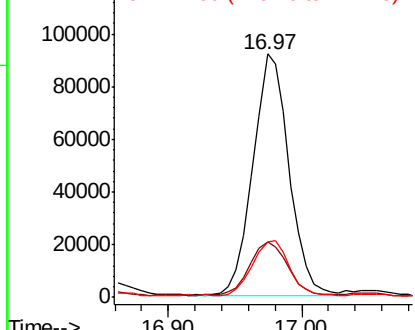


Abundance

Ion 276.00 (275.70 to 276.70): E

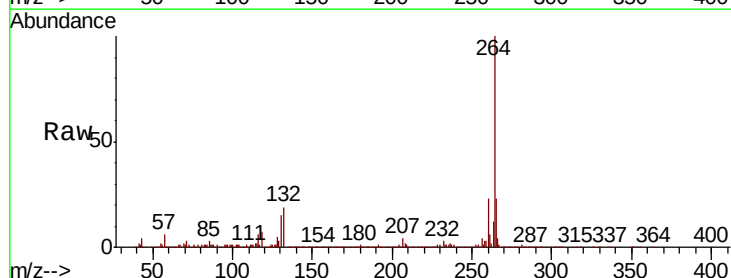
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.50 min Scan# 2280
 Delta R.T. -0.01 min
 Lab File: BF114253.D
 Acq: 14 May 2019 10:16

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.4	29.0
265	22.7	16.9	25.3

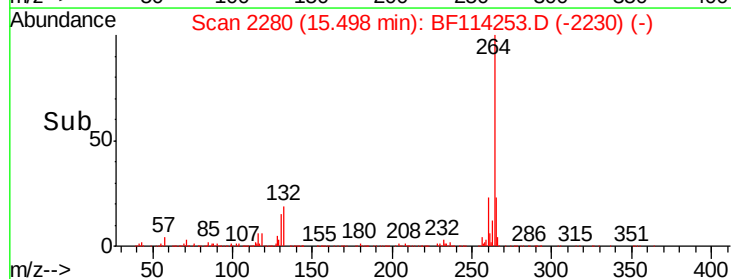
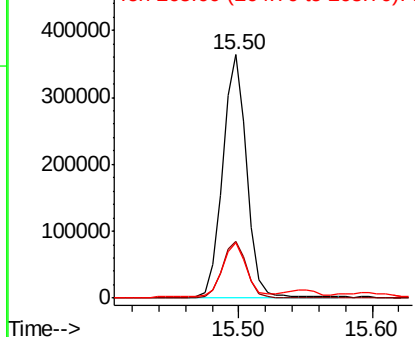


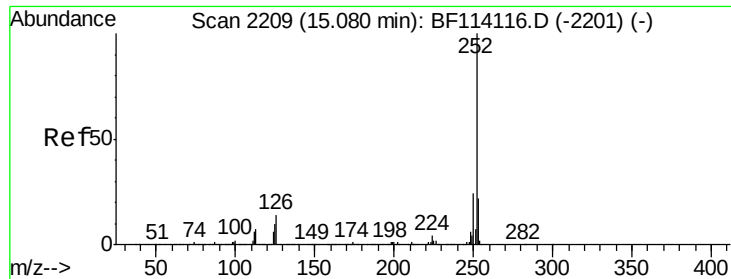
Abundance

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

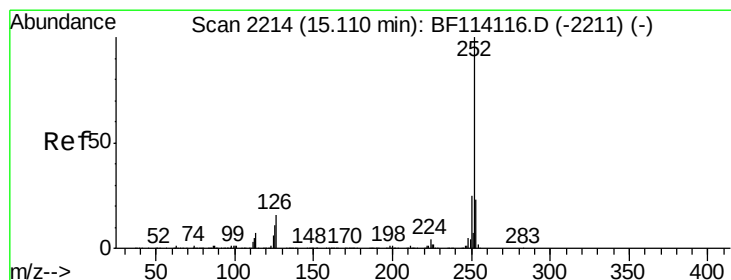
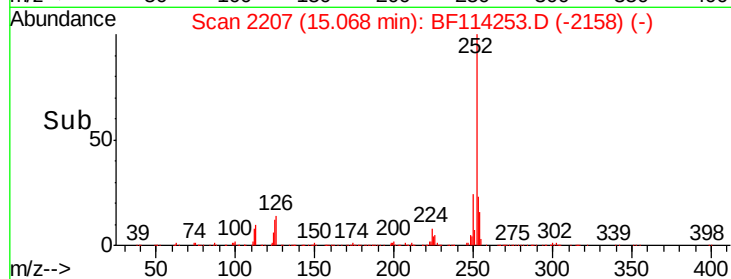
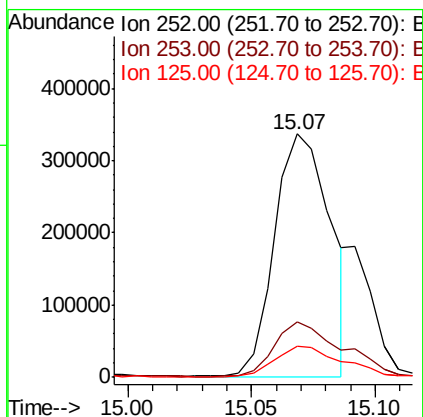
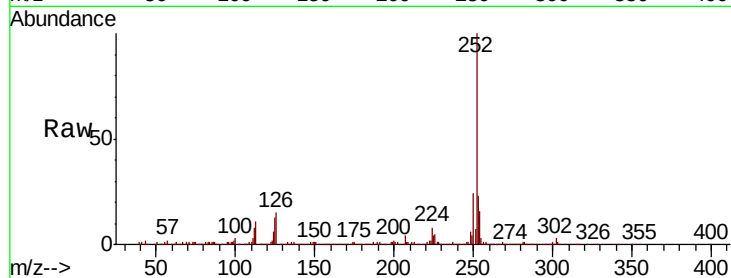




#88
Benzo(b)fluoranthene
Concen: 18.096 ng m
RT: 15.07 min Scan# 2207
Delta R.T. -0.01 min
Lab File: BF114253.D
Acq: 14 May 2019 10:16

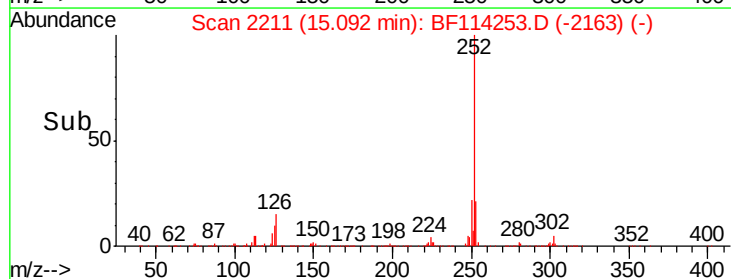
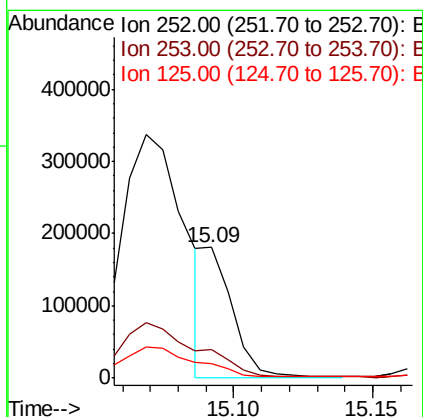
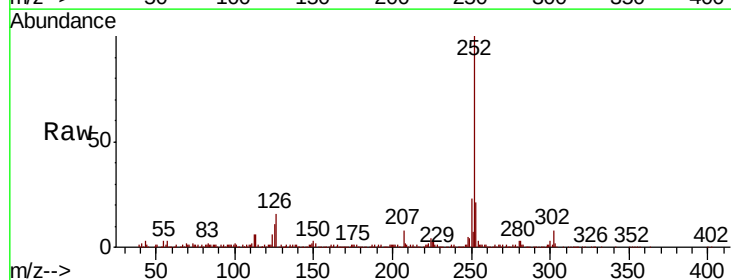
Instrument :
BNA_F
ClientSampleId :

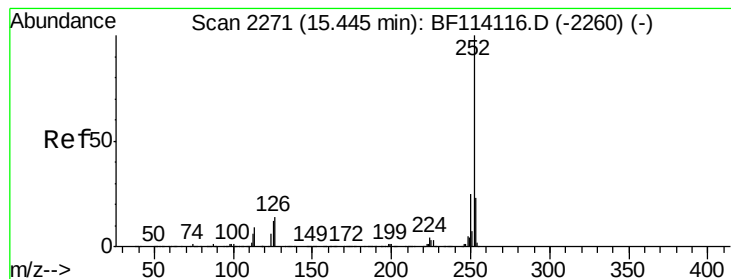
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.8	26.8
125	13.0	8.3	12.5



#89
Benzo(k)fluoranthene
Concen: 4.847 ng m
RT: 15.09 min Scan# 2211
Delta R.T. -0.02 min
Lab File: BF114253.D
Acq: 14 May 2019 10:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.5	18.2	27.2
125	10.8	8.6	13.0





#90

Benzo(a)pyrene

Concen: 10.617 ng

RT: 15.43 min Scan# 2269

Delta R.T. -0.01 min

Lab File: BF114253.D

Acq: 14 May 2019 10:16

Instrument :

BNA_F

ClientSampleId :

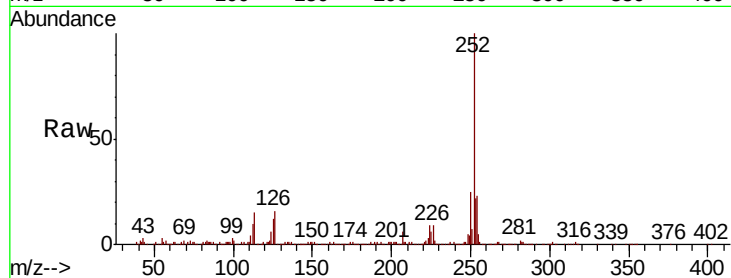
Tot Ion:252 Resp: 274326

Ion Ratio Lower Upper

252 100

253 22.2 18.1 27.1

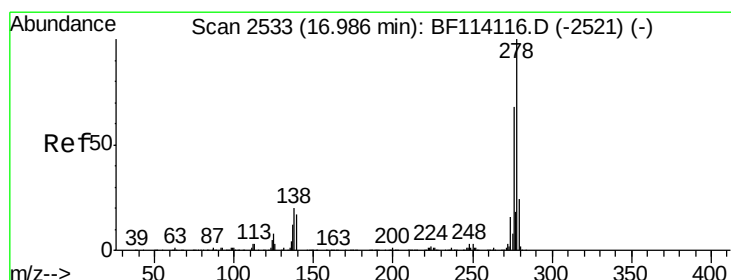
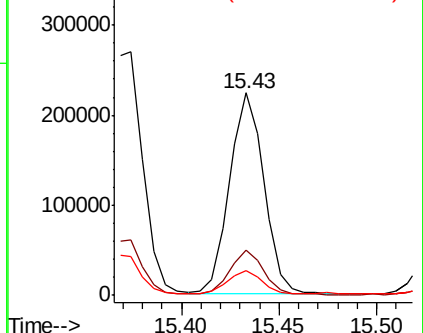
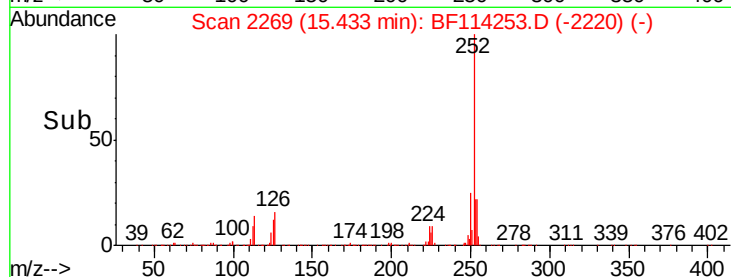
125 12.3 9.5 14.3



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: 2.265 ng m

RT: 16.98 min Scan# 2532

Delta R.T. -0.01 min

Lab File: BF114253.D

Acq: 14 May 2019 10:16

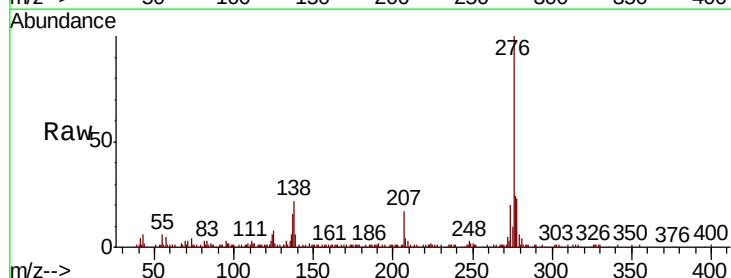
Tgt Ion:278 Resp: 48629

Ion Ratio Lower Upper

278 100

139 25.2 13.5 20.3#

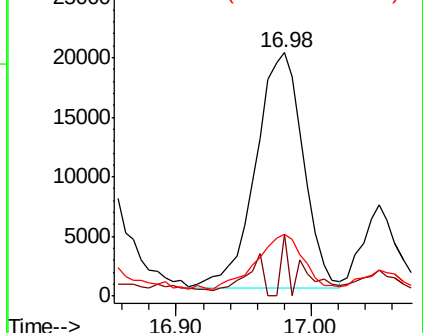
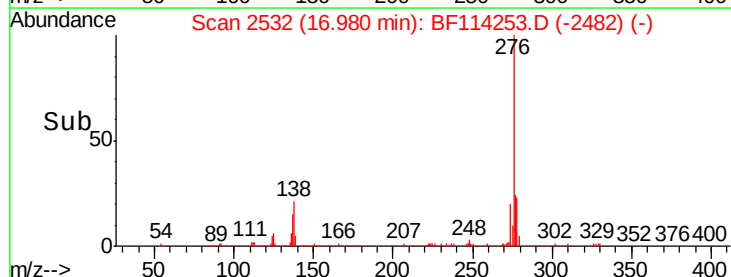
279 25.4 19.0 28.6

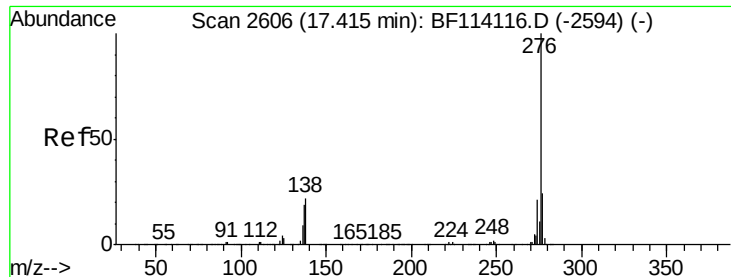


Abundance Ion 278.00 (277.70 to 278.70): E

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: 8.824 ng
 RT: 17.43 min Scan# 2608
 Delta R.T. 0.01 min
 Lab File: BF114253.D
 Acq: 14 May 2019 10:16

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.0	28.4
138	25.3	17.8	26.6

