

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF042020\
 Data File : BF120094.D
 Acq On : 20 Apr 2020 22:46
 Operator : MA/SJ
 Sample : L2314-14 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 21 01:14:56 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 20 14:10:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	147080	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	543147	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	269258	20.00	ng	0.00
64) Phenanthrene-d10	11.24	188	467579	20.00	ng	0.00
76) Chrysene-d12	13.89	240	331271	20.00	ng	0.00
87) Perylene-d12	15.32	264	293697	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.32	112	218677	25.69	ng	0.00
7) Phenol-d6	6.35	99	300852	27.43	ng	-0.01
23) Nitrobenzene-d5	7.27	82	200337	19.08	ng	-0.02
42) 2,4,6-Tribromophenol	10.55	330	75438	22.88	ng	-0.01
45) 2-Fluorobiphenyl	9.07	172	400804	21.13	ng	-0.01
79) Terphenyl-d14	12.83	244	387541	19.68	ng	-0.01

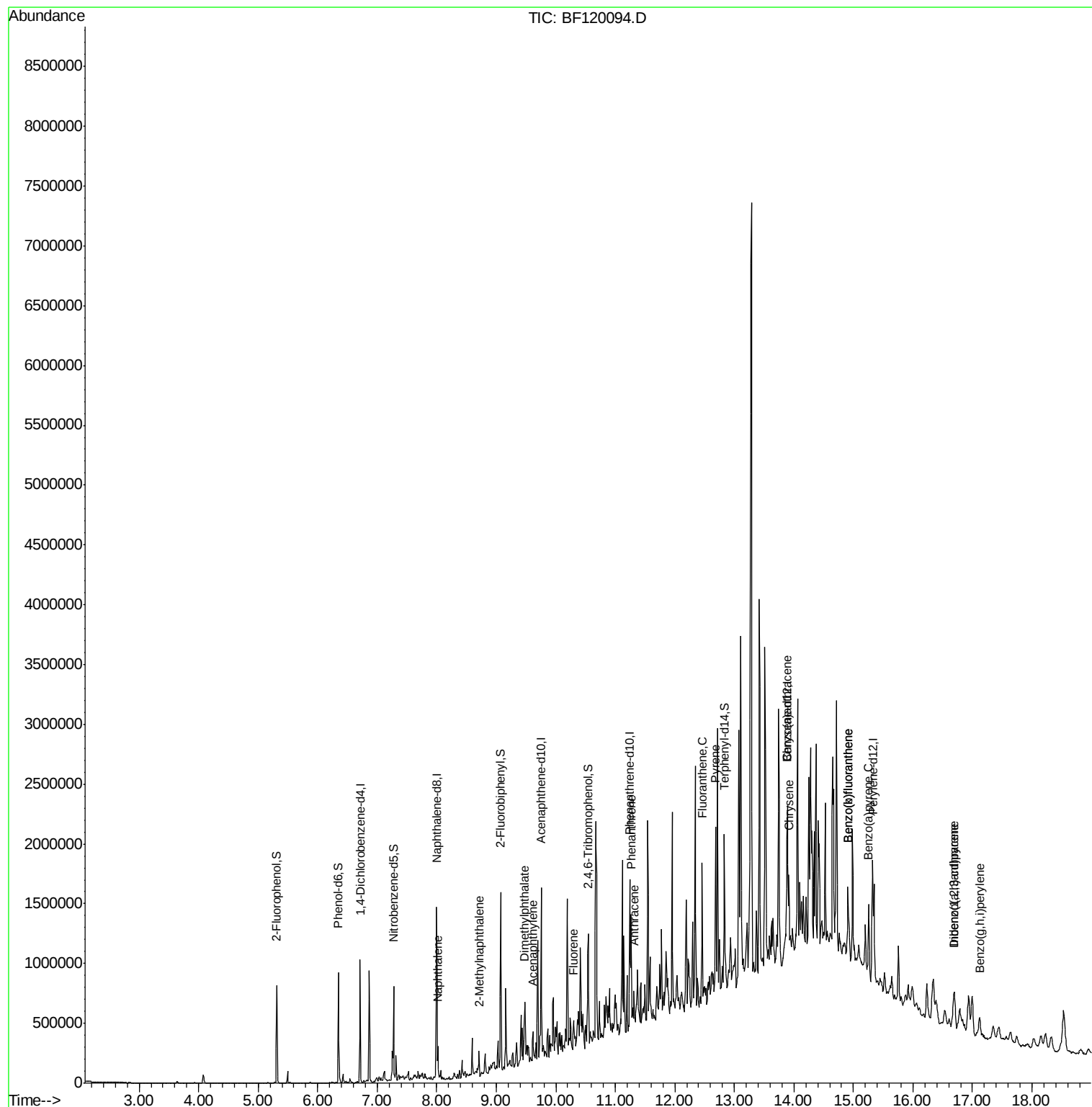
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.26	77	400	Below Cal		# 1
31) Naphthalene	8.02	128	113456	3.970	ng	98
37) 2-Methylnaphthalene	8.71	142	46887	2.420	ng	97
49) Acenaphthylene	9.62	152	65305	2.453	ng	98
50) Dimethylphthalate	9.47	163	71017	3.410	ng	# 98
58) Fluorene	10.30	166	47831	2.454	ng	98
71) Phenanthrene	11.27	178	351916	14.142	ng	99
72) Anthracene	11.32	178	103974	4.090	ng	98
75) Fluoranthene	12.46	202	444648	16.560	ng	99
78) Pyrene	12.69	202	541826	19.402	ng	97
81) Benzo(a)anthracene	13.88	228	291467	13.374	ng	# 90
83) Chrysene	13.92	228	261544	11.811	ng	# 90
86) Indeno(1,2,3-cd)pyrene	16.70	276	140416	7.194	ng	98
88) Benzo(b)fluoranthene	14.91	252	394334	18.664	ng	# 94
89) Benzo(k)fluoranthene	14.91	252	394334	21.632	ng	# 95
90) Benzo(a)pyrene	15.26	252	263619	14.840	ng	# 94
91) Dibenzo(a,h)anthracene	16.70	278	37281	2.369	ng	# 73
92) Benzo(g,h,i)perylene	17.12	276	133479	8.594	ng	96

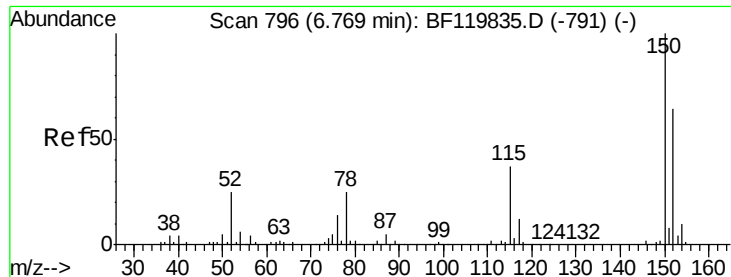
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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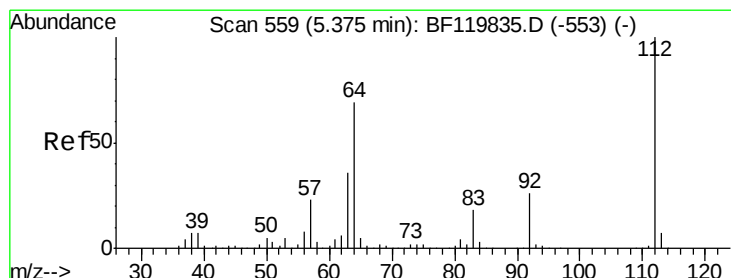
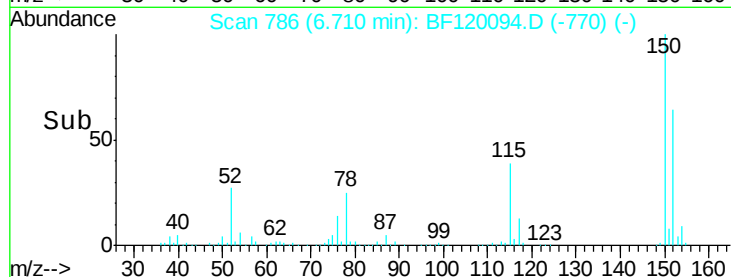
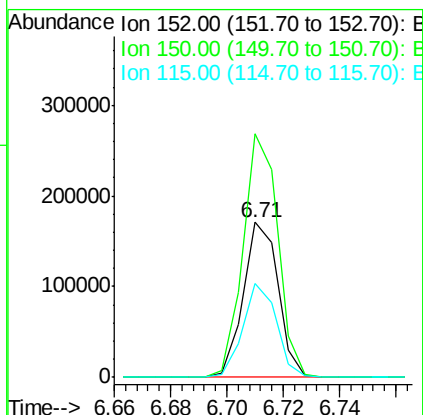
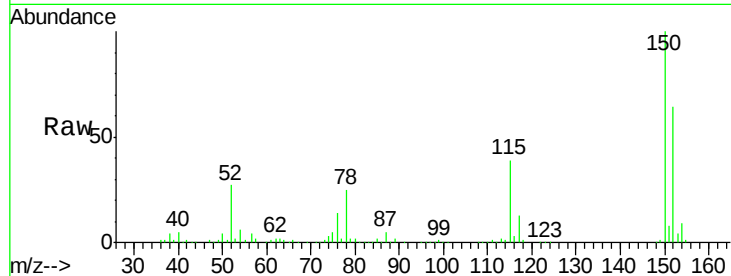


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.71 min Scan# 786
Delta R.T. -0.01 min
Lab File: BF120094.D
Acq: 20 Apr 2020 22:46

Instrument :
BNA_F
ClientSampleId :

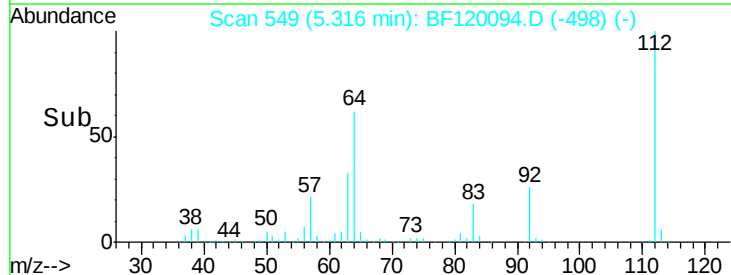
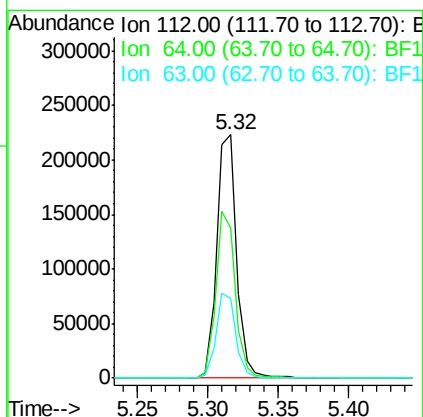
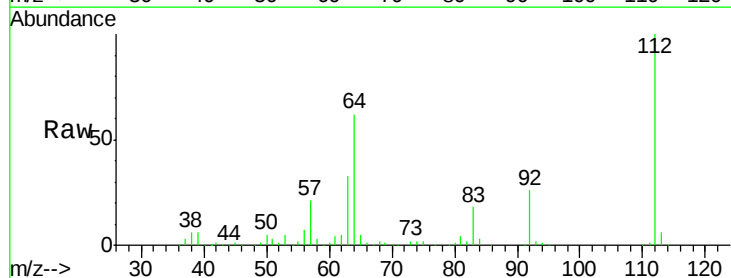
Tot Ion:152 Resp: 147080
Ion Ratio Lower Upper
152 100
150 157.1 124.8 187.2
115 60.5 46.5 69.7



#5

2-Fluorophenol
Concen: 25.694 ng
RT: 5.32 min Scan# 549
Delta R.T. 0.00 min
Lab File: BF120094.D
Acq: 20 Apr 2020 22:46

Tgt Ion:112 Resp: 218677
Ion Ratio Lower Upper
112 100
64 61.7 55.5 83.3
63 32.6 29.1 43.7





#7

Phenol-d6

Concen: 27.434 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF120094.D

Acq: 20 Apr 2020 22:46

Instrument :

BNA_F

ClientSampleId :

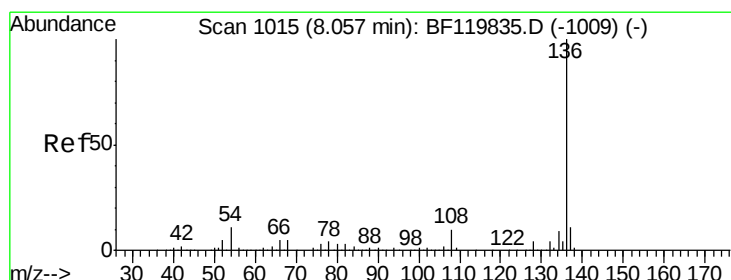
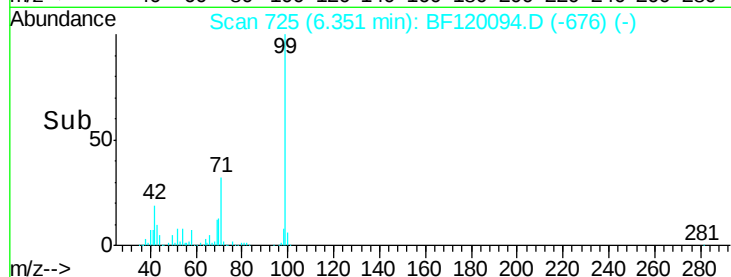
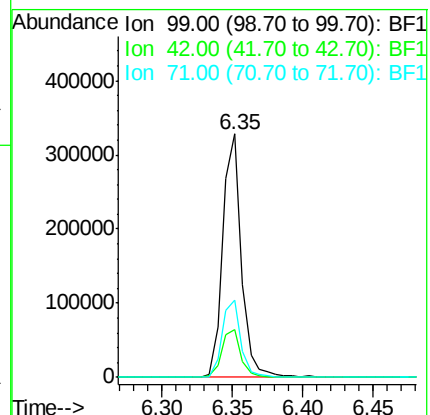
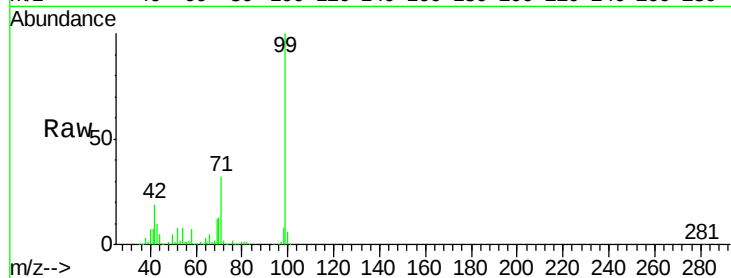
Tot Ion: 99 Resp: 300852

Ion Ratio Lower Upper

99 100

42 19.4 16.9 25.3

71 31.7 26.3 39.5



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.00 min Scan# 1005

Delta R.T. -0.01 min

Lab File: BF120094.D

Acq: 20 Apr 2020 22:46

Tgt Ion: 136 Resp: 543147

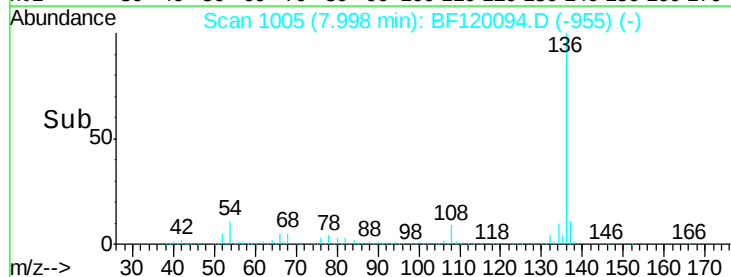
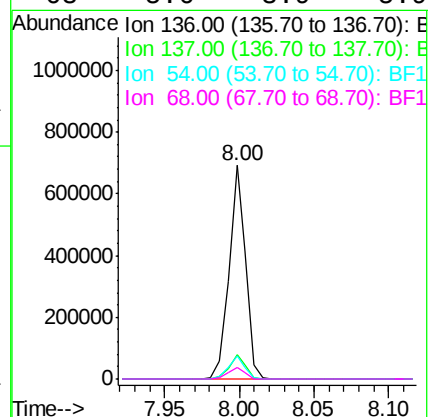
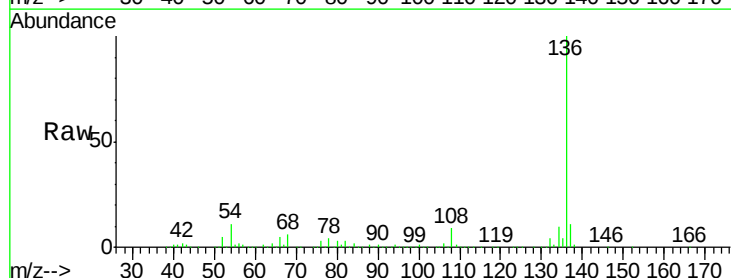
Ion Ratio Lower Upper

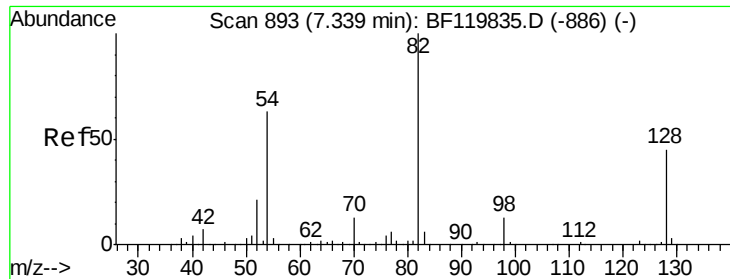
136 100

137 11.3 8.7 13.1

54 10.9 8.5 12.7

68 5.6 3.9 5.9

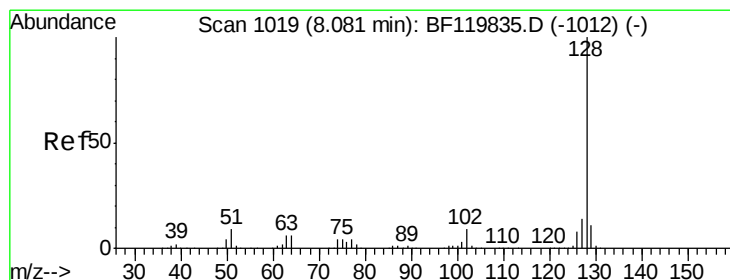
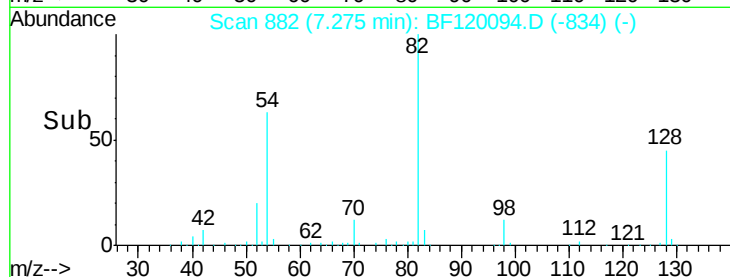
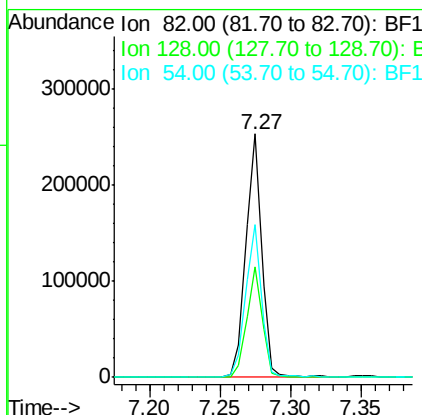
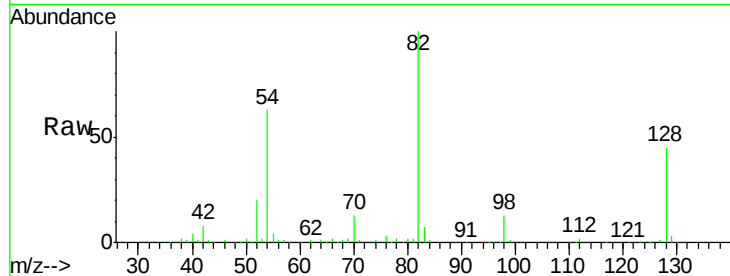




#23
 Nitrobenzene-d5
 Concen: 19.082 ng
 RT: 7.27 min Scan# 882
 Delta R.T. -0.02 min
 Lab File: BF120094.D
 Acq: 20 Apr 2020 22:46

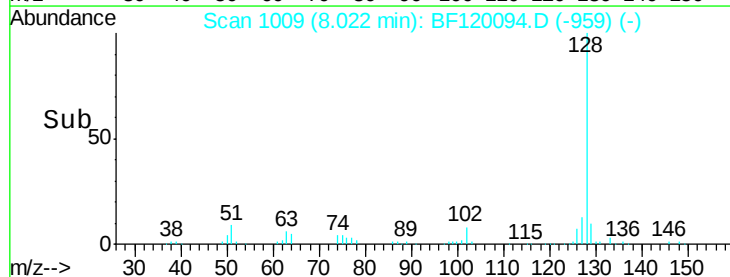
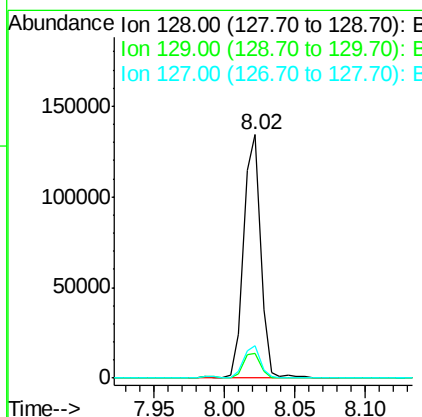
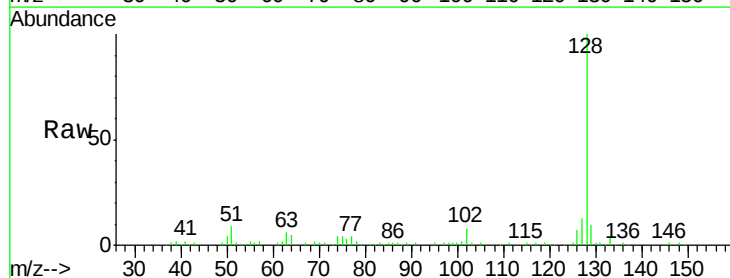
Instrument :
 BNA_F
 ClientSampleId :

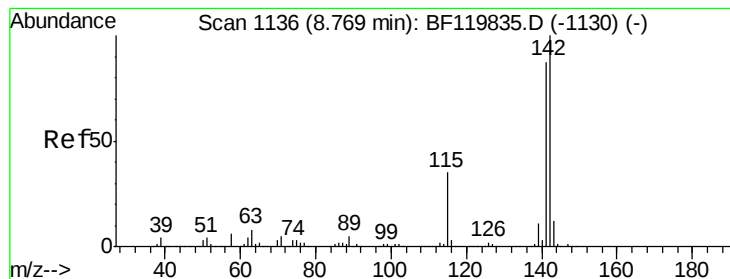
Tot Ion: 82 Resp: 200337
 Ion Ratio Lower Upper
 82 100
 128 45.4 36.2 54.4
 54 62.7 50.4 75.6



#31
 Naphthalene
 Concen: 3.970 ng
 RT: 8.02 min Scan# 1009
 Delta R.T. -0.01 min
 Lab File: BF120094.D
 Acq: 20 Apr 2020 22:46

Tgt Ion: 128 Resp: 113456
 Ion Ratio Lower Upper
 128 100
 129 10.1 9.0 13.6
 127 13.2 11.0 16.4





#37

2-Methylnaphthalene

Concen: 2.420 ng

RT: 8.71 min Scan# 1126

Delta R.T. -0.01 min

Lab File: BF120094.D

Acq: 20 Apr 2020 22:46

Instrument :

BNA_F

ClientSampleId :

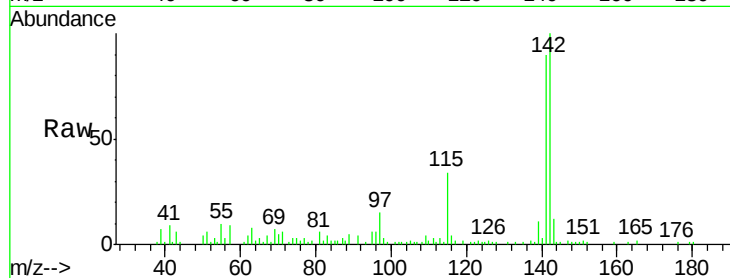
Tot Ion:142 Resp: 46887

Ion Ratio Lower Upper

142 100

141 90.5 69.9 104.9

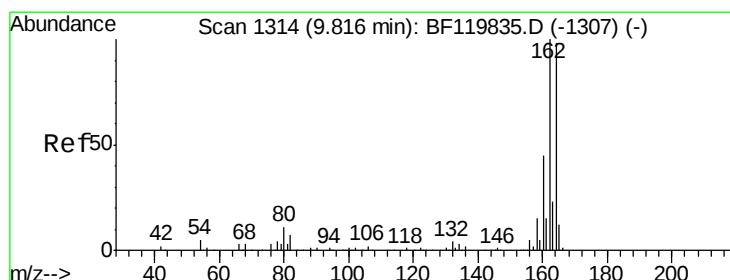
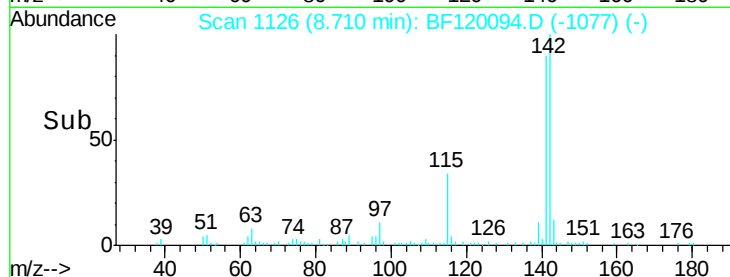
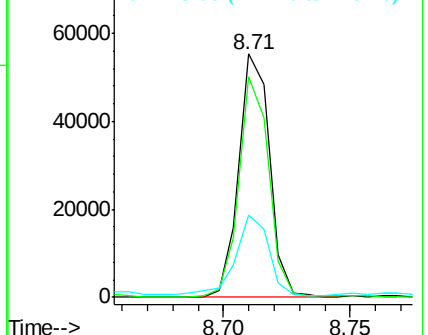
115 33.6 28.0 42.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF120094.D

Acq: 20 Apr 2020 22:46

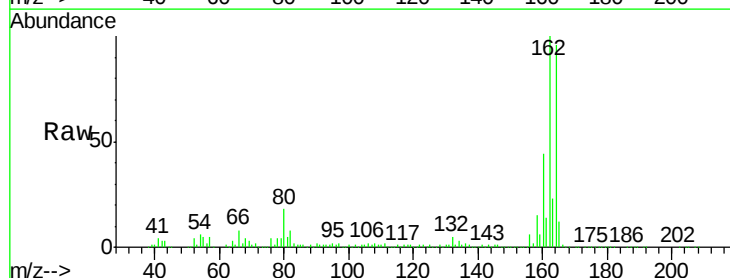
Tgt Ion:164 Resp: 269258

Ion Ratio Lower Upper

164 100

162 103.8 81.9 122.9

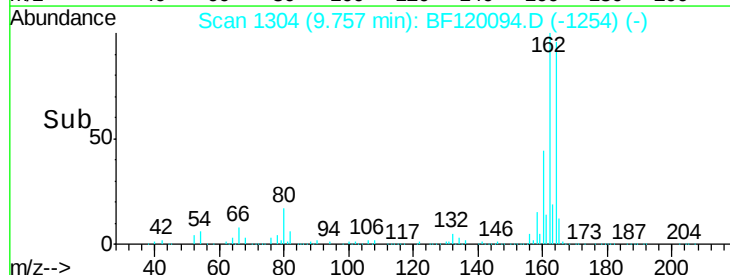
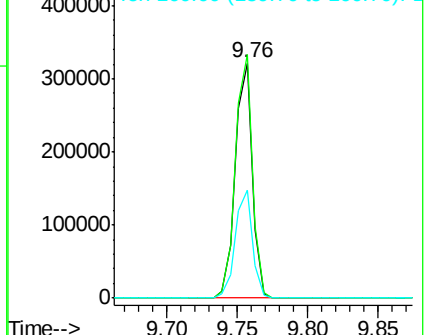
160 46.1 36.6 54.8

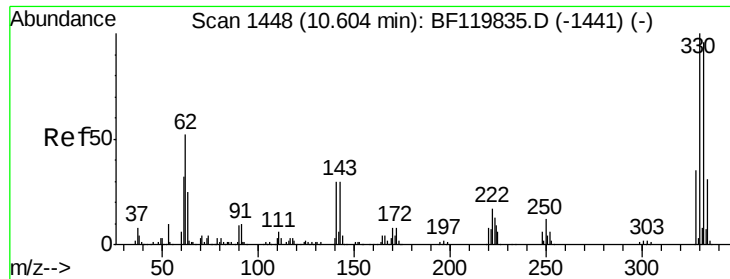


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

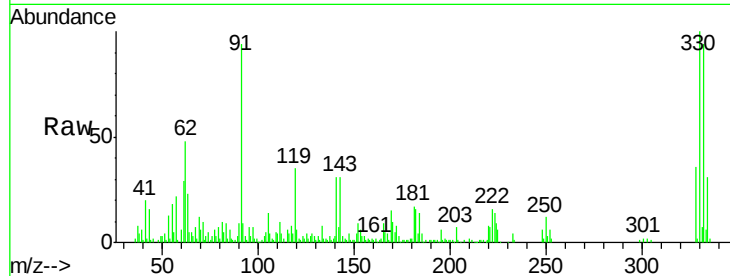




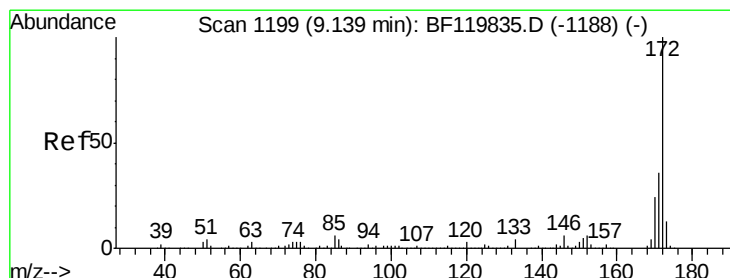
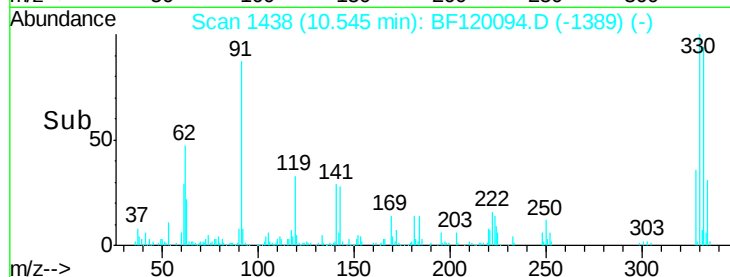
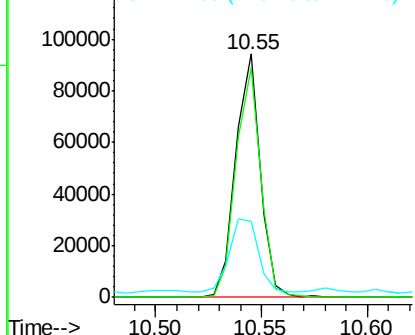
#42
 2,4,6-Tribromophenol
 Concen: 22.883 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF120094.D
 Acq: 20 Apr 2020 22:46

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 75438
 Ion Ratio Lower Upper
 330 100
 332 95.3 76.8 115.2
 141 35.8 25.1 37.7

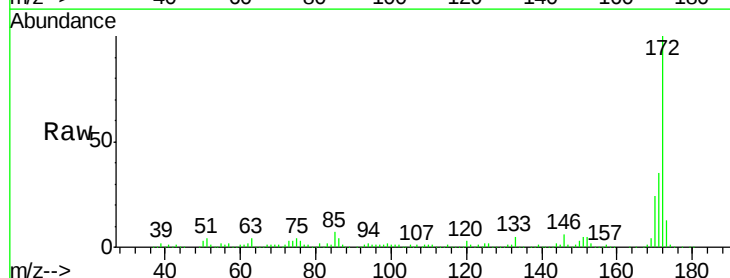


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

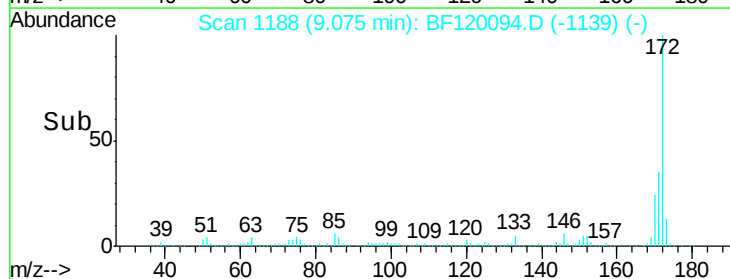
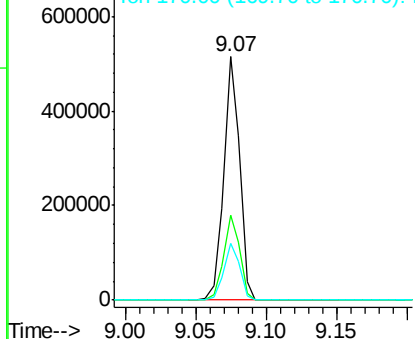


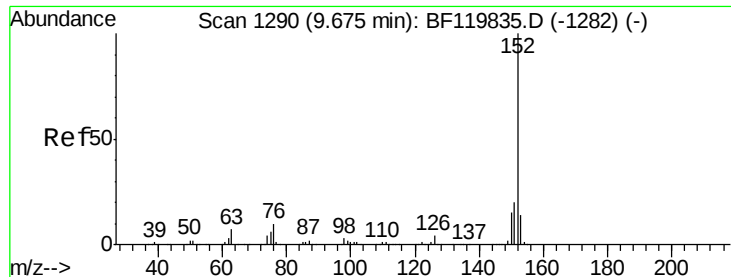
#45
 2-Fluorobiphenyl
 Concen: 21.134 ng
 RT: 9.07 min Scan# 1188
 Delta R.T. -0.01 min
 Lab File: BF120094.D
 Acq: 20 Apr 2020 22:46

Tgt Ion:172 Resp: 400804
 Ion Ratio Lower Upper
 172 100
 171 34.9 28.9 43.3
 170 23.5 19.4 29.2



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: 2.453 ng

RT: 9.62 min Scan# 1280

Delta R.T. -0.01 min

Lab File: BF120094.D

Acq: 20 Apr 2020 22:46

Instrument :

BNA_F

ClientSampleId :

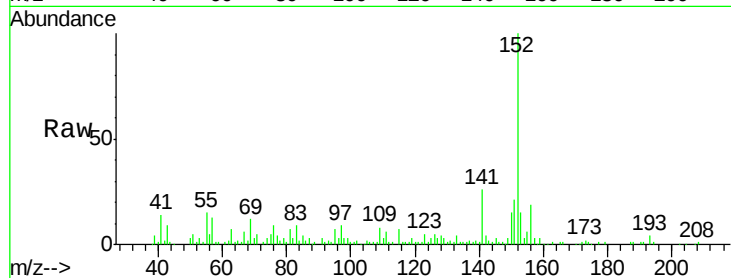
Tot Ion:152 Resp: 65305

Ion Ratio Lower Upper

152 100

151 20.6 16.2 24.4

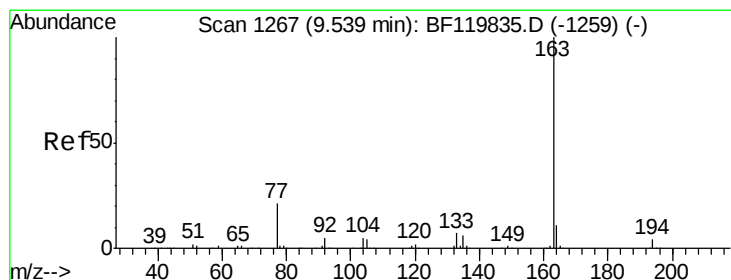
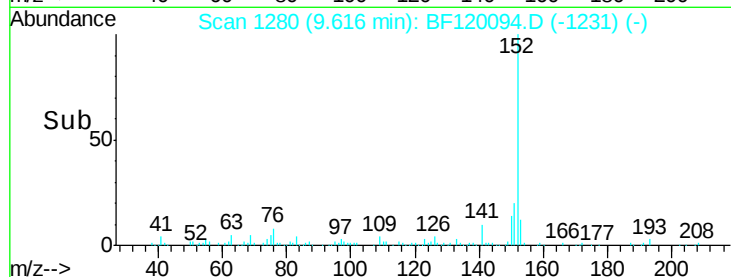
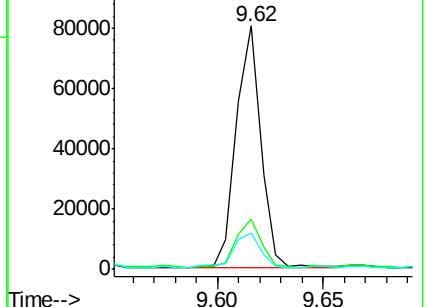
153 15.0 10.9 16.3



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: 3.410 ng

RT: 9.47 min Scan# 1256

Delta R.T. -0.02 min

Lab File: BF120094.D

Acq: 20 Apr 2020 22:46

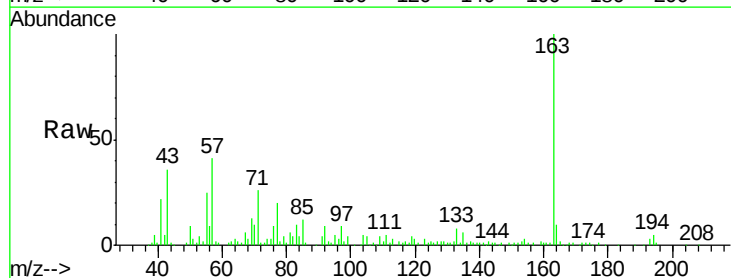
Tgt Ion:163 Resp: 71017

Ion Ratio Lower Upper

163 100

194 4.6 3.0 4.4#

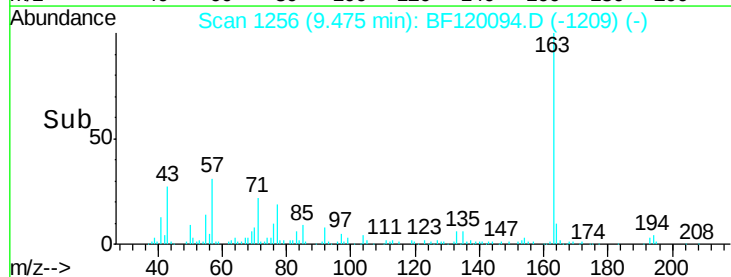
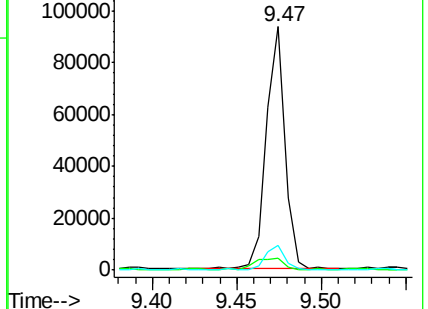
164 10.1 8.4 12.6

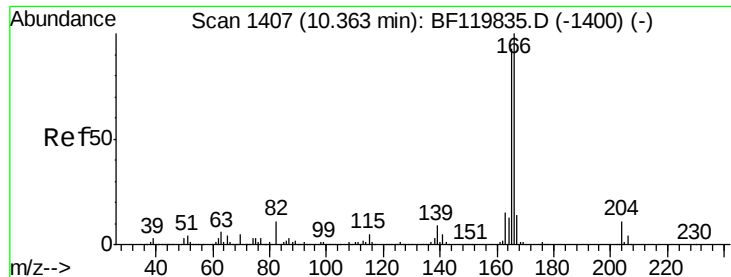


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#58

Fluorene

Concen: 2.454 ng

RT: 10.30 min Scan# 1397

Delta R.T. -0.01 min

Lab File: BF120094.D

Acq: 20 Apr 2020 22:46

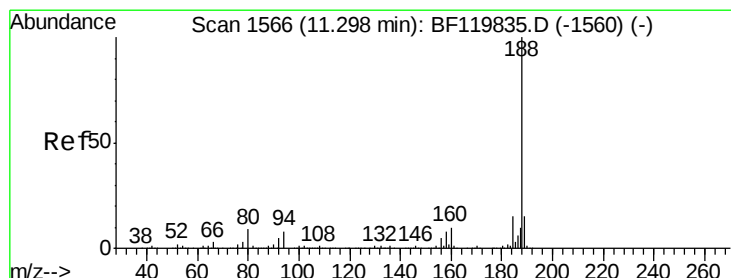
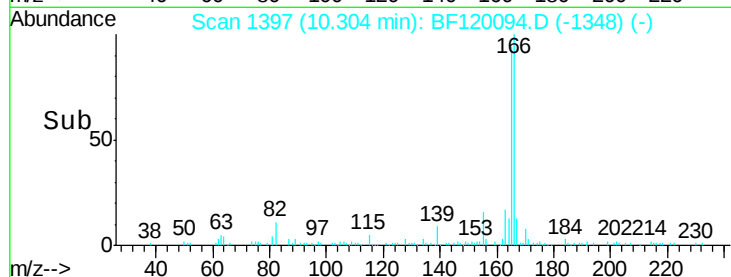
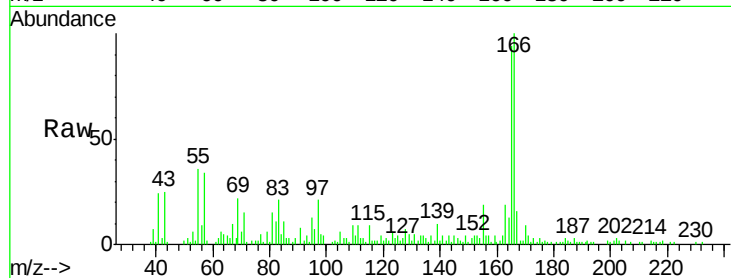
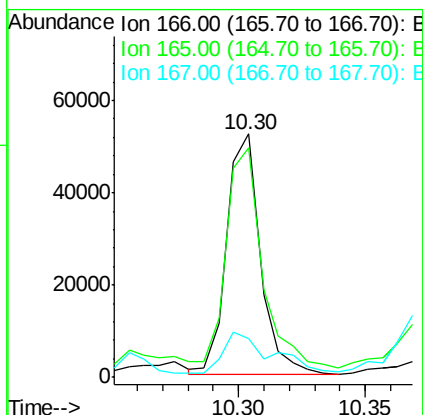
Instrument :

BNA_F

ClientSampleId :

Tot Ion:166 Resp: 47831

Ion	Ratio	Lower	Upper
166	100		
165	94.2	74.2	111.2
167	15.8	10.8	16.2



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.24 min Scan# 1557

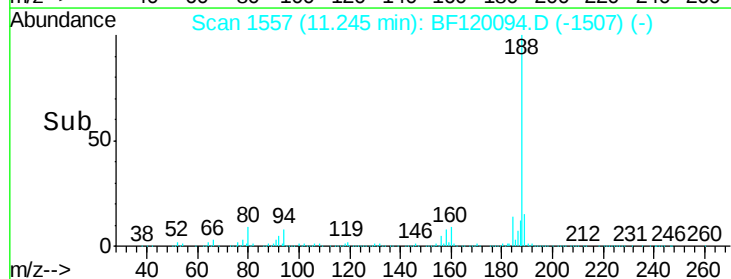
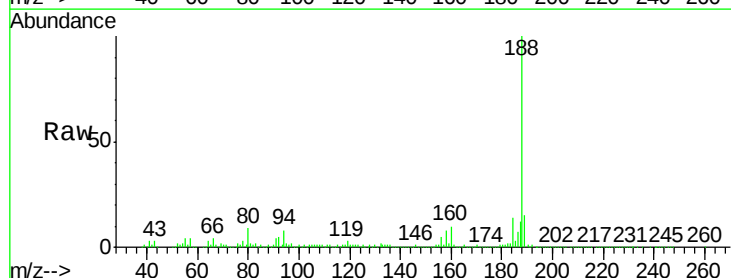
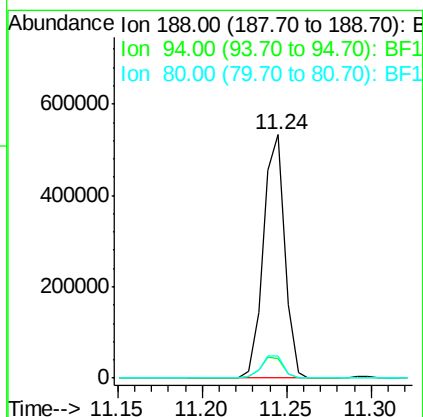
Delta R.T. -0.01 min

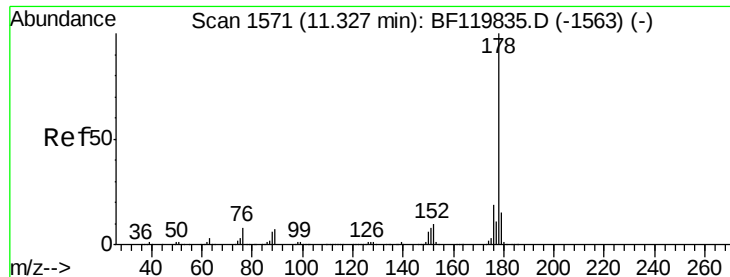
Lab File: BF120094.D

Acq: 20 Apr 2020 22:46

Tgt Ion:188 Resp: 467579

Ion	Ratio	Lower	Upper
188	100		
94	8.2	6.7	10.1
80	8.9	7.4	11.2





#71

Phenanthrene

Concen: 14.142 ng

RT: 11.27 min Scan# 1561

Delta R.T. -0.01 min

Lab File: BF120094.D

Acq: 20 Apr 2020 22:46

Instrument :

BNA_F

ClientSampleId :

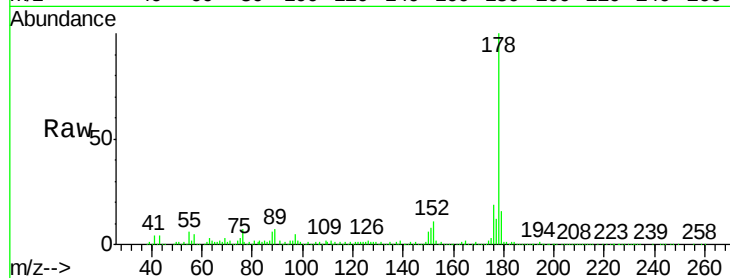
Tot Ion:178 Resp: 351916

Ion Ratio Lower Upper

178 100

176 19.5 15.1 22.7

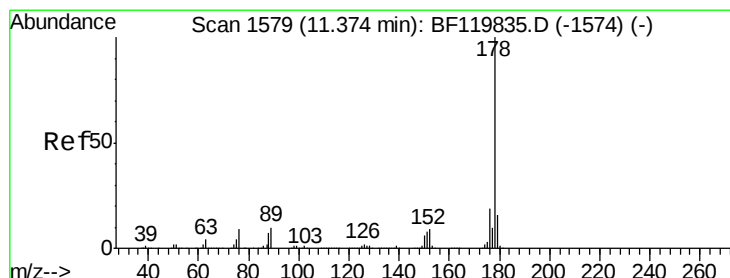
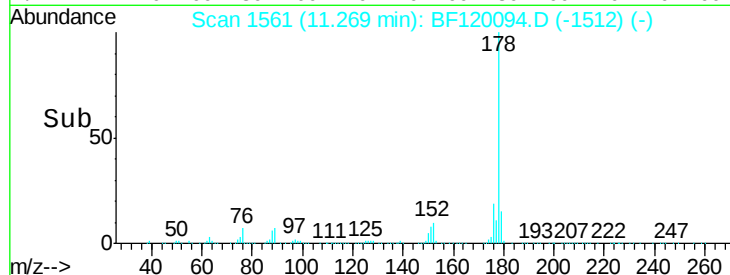
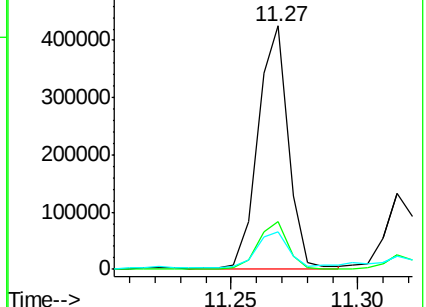
179 15.6 12.2 18.4



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



#72

Anthracene

Concen: 4.090 ng

RT: 11.32 min Scan# 1569

Delta R.T. -0.02 min

Lab File: BF120094.D

Acq: 20 Apr 2020 22:46

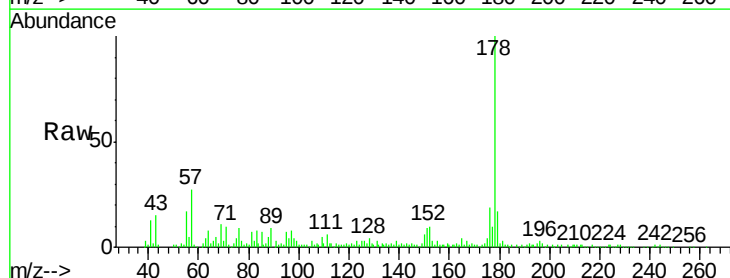
Tgt Ion:178 Resp: 103974

Ion Ratio Lower Upper

178 100

176 18.7 15.4 23.2

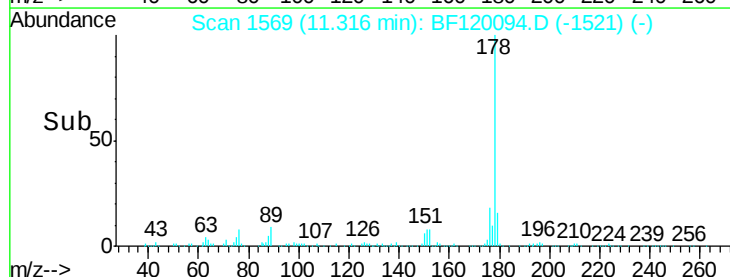
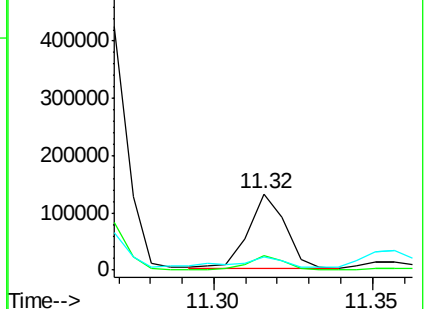
179 16.8 12.8 19.2

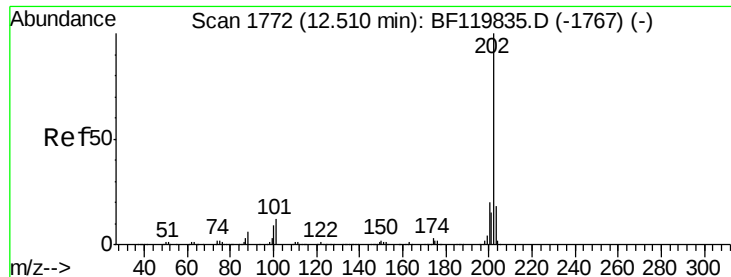


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 16.560 ng

RT: 12.46 min Scan# 1763

Delta R.T. -0.01 min

Lab File: BF120094.D

Acq: 20 Apr 2020 22:46

Instrument :

BNA_F

ClientSampleId :

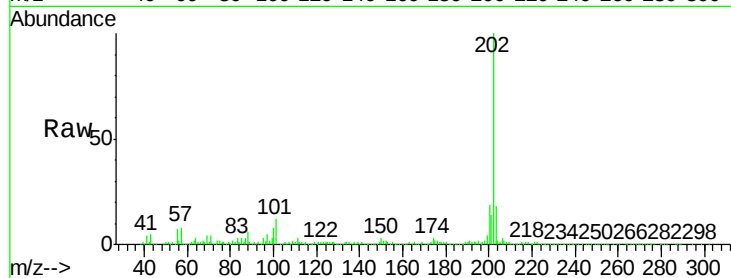
Tot Ion:202 Resp: 444648

Ion Ratio Lower Upper

202 100

101 11.7 0.0 32.3

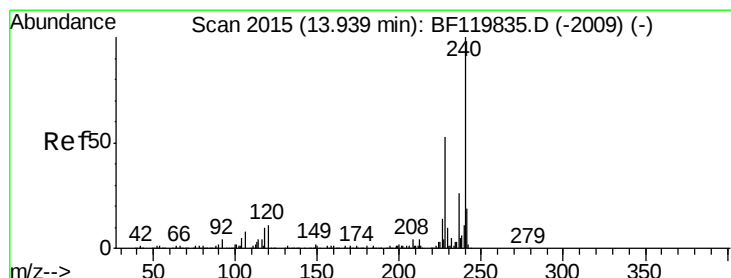
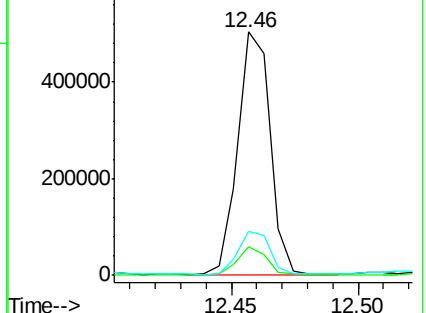
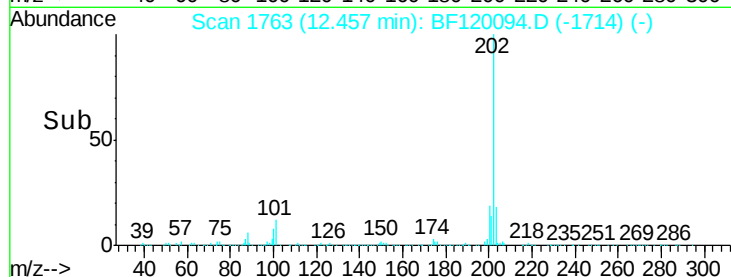
203 18.2 0.0 37.6



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: 13.89 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF120094.D

Acq: 20 Apr 2020 22:46

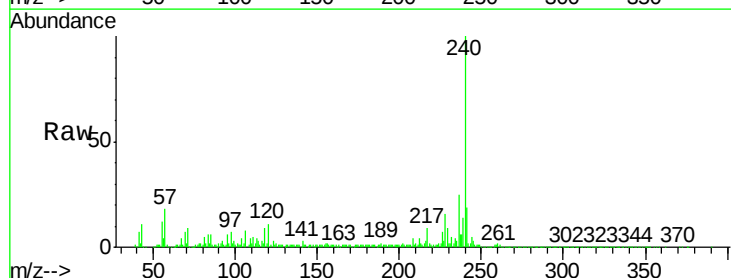
Tgt Ion:240 Resp: 331271

Ion Ratio Lower Upper

240 100

120 11.4 9.0 13.6

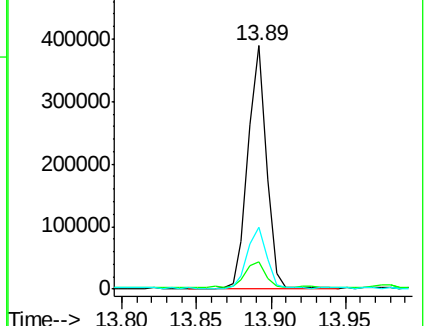
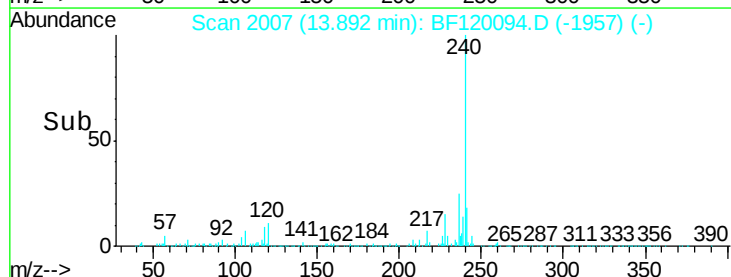
236 25.5 20.7 31.1

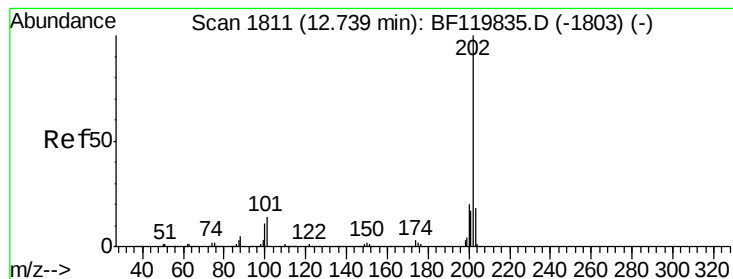


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 19.402 ng

RT: 12.69 min Scan# 1802

Delta R.T. -0.01 min

Lab File: BF120094.D

Acq: 20 Apr 2020 22:46

Instrument :

BNA_F

ClientSampleId :

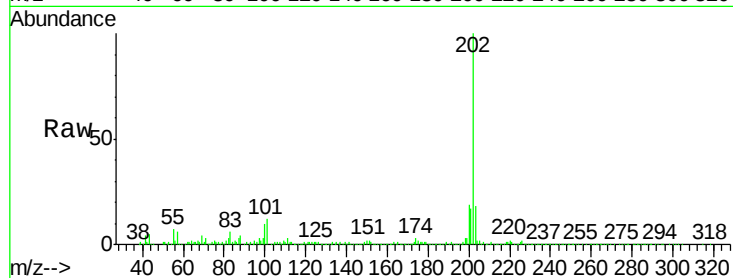
Tot Ion:202 Resp: 541826

Ion Ratio Lower Upper

202 100

200 18.6 16.2 24.2

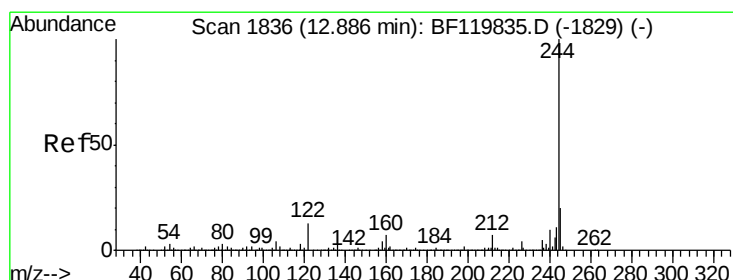
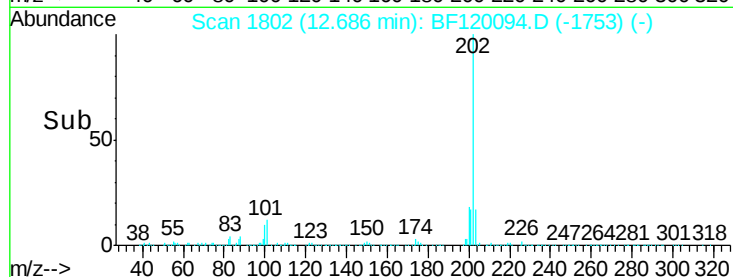
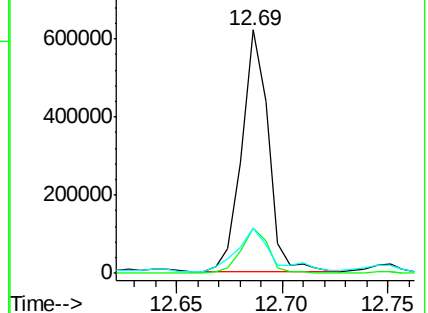
203 18.3 14.1 21.1



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: 19.685 ng

RT: 12.83 min Scan# 1827

Delta R.T. -0.01 min

Lab File: BF120094.D

Acq: 20 Apr 2020 22:46

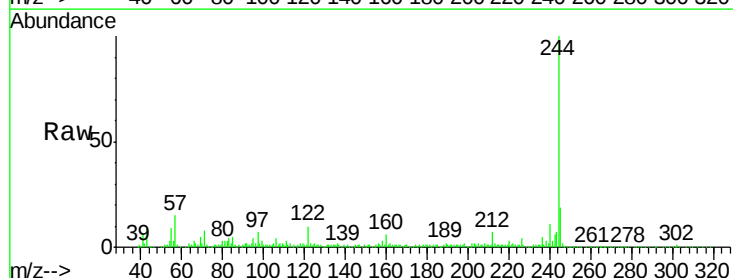
Tgt Ion:244 Resp: 387541

Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.0

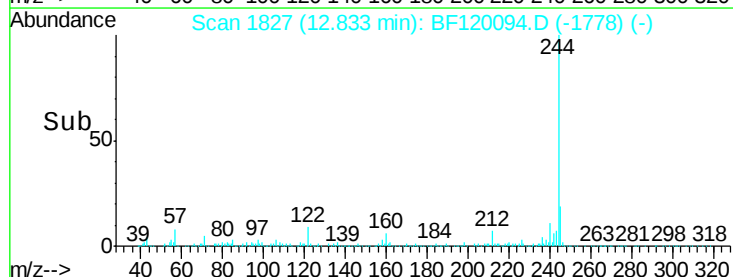
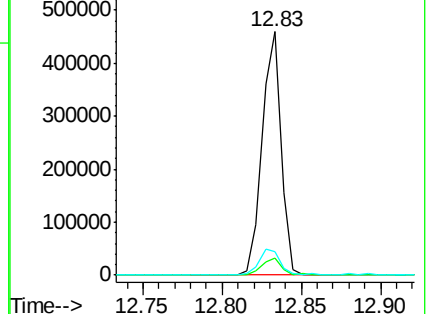
122 9.7 10.3 15.5#

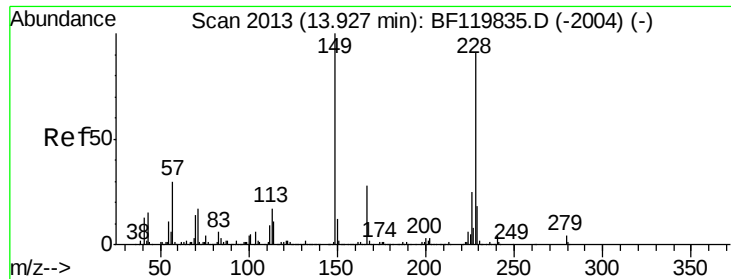


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 13.374 ng

RT: 13.88 min Scan# 2005

Delta R.T. -0.01 min

Lab File: BF120094.D

Acq: 20 Apr 2020 22:46

Instrument :

BNA_F

ClientSampleId :

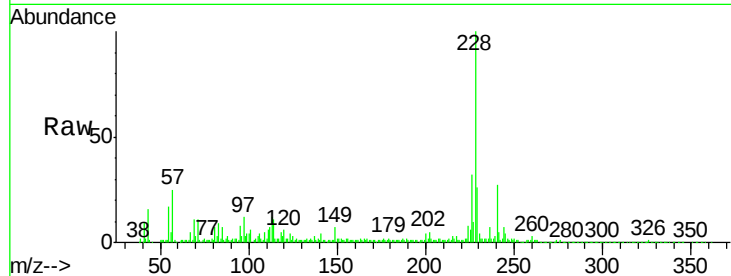
Tot Ion:228 Resp: 291467

Ion Ratio Lower Upper

228 100

226 31.6 21.9 32.9

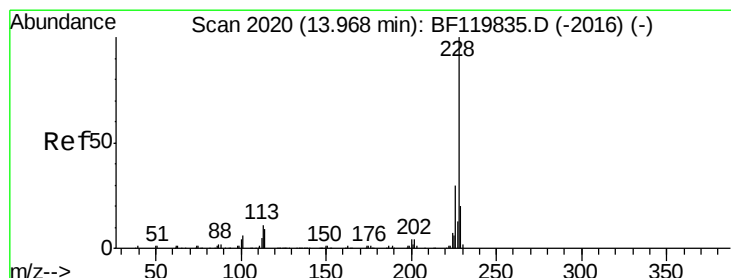
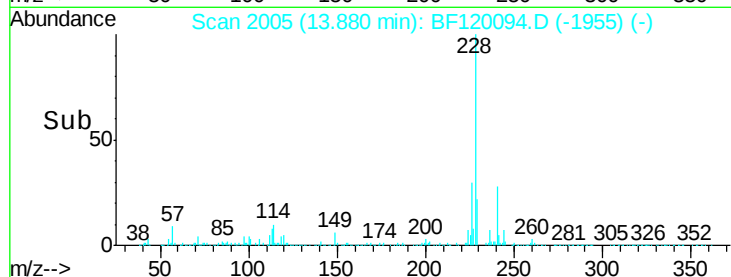
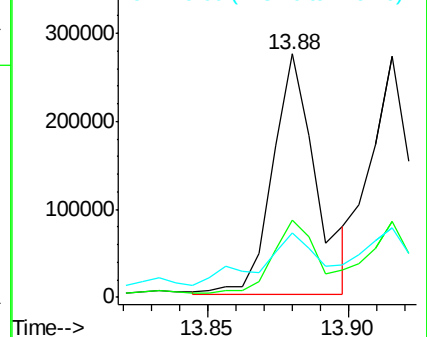
229 26.3 15.9 23.9#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 11.811 ng

RT: 13.92 min Scan# 2011

Delta R.T. -0.01 min

Lab File: BF120094.D

Acq: 20 Apr 2020 22:46

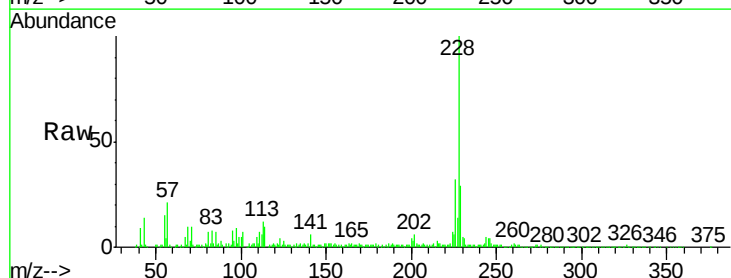
Tgt Ion:228 Resp: 261544

Ion Ratio Lower Upper

228 100

226 31.7 24.2 36.2

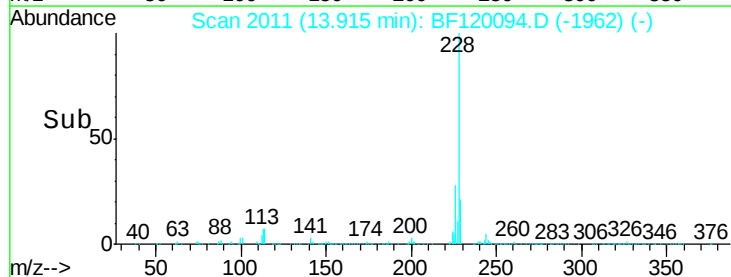
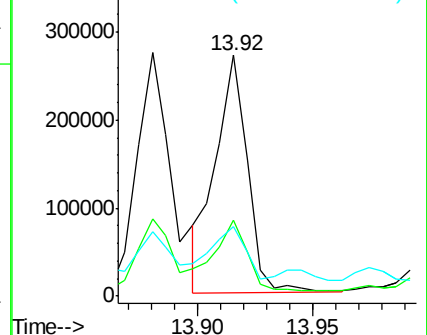
229 29.0 15.9 23.9#

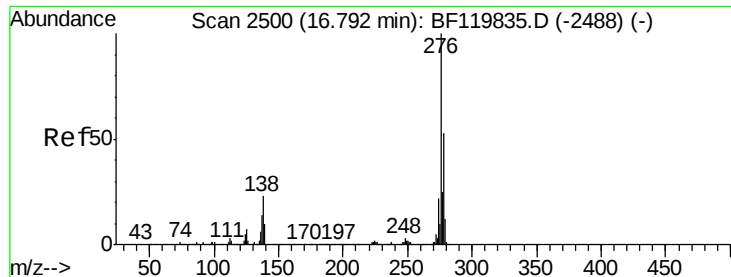


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#86

Indeno(1,2,3-cd)pyrene

Concen: 7.194 ng

RT: 16.70 min Scan# 2484

Delta R.T. -0.02 min

Lab File: BF120094.D

Acq: 20 Apr 2020 22:46

Instrument :

BNA_F

ClientSampleId :

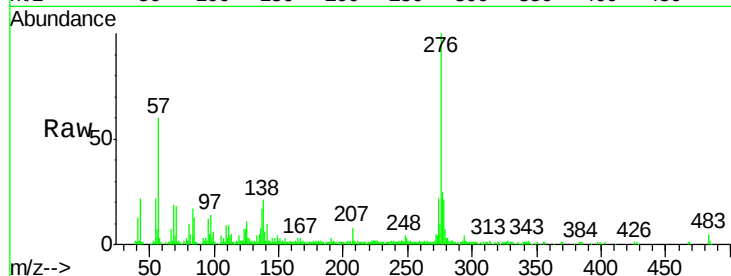
Tot Ion:276 Resp: 140416

Ion Ratio Lower Upper

276 100

138 20.6 18.0 27.0

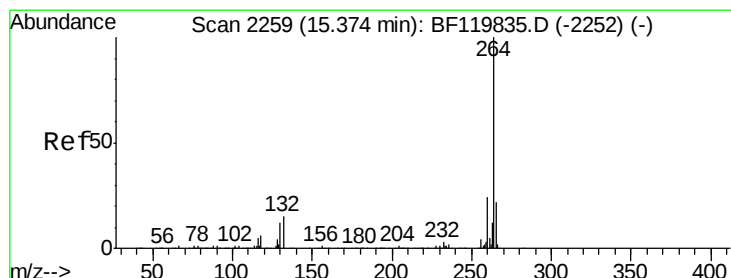
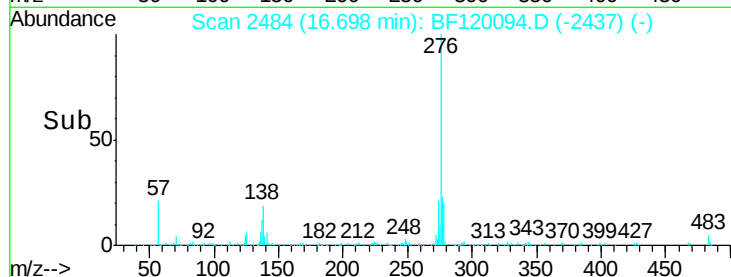
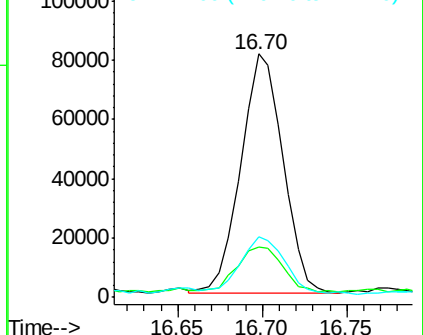
277 24.8 20.1 30.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.32 min Scan# 2249

Delta R.T. -0.01 min

Lab File: BF120094.D

Acq: 20 Apr 2020 22:46

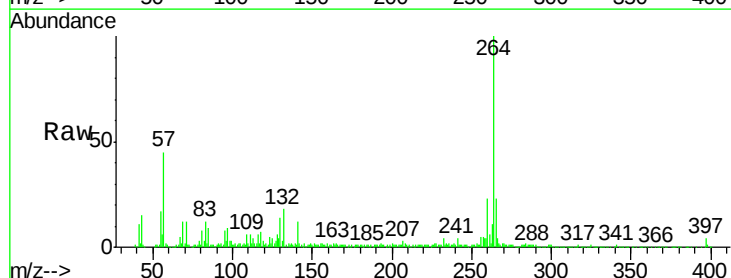
Tgt Ion:264 Resp: 293697

Ion Ratio Lower Upper

264 100

260 23.0 19.3 28.9

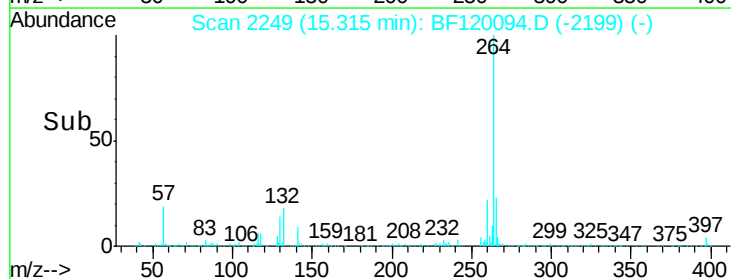
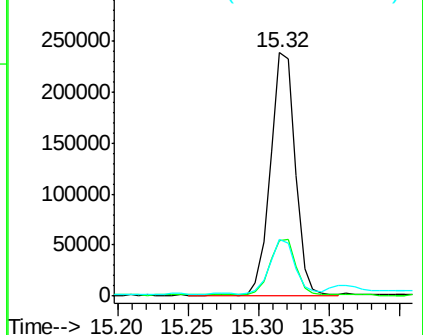
265 23.1 17.6 26.4

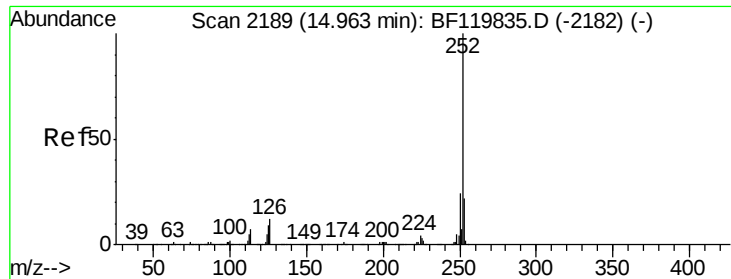


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

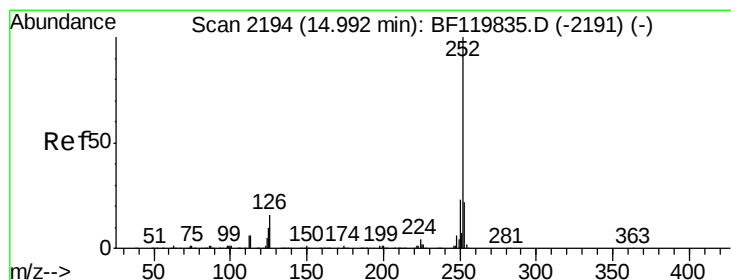
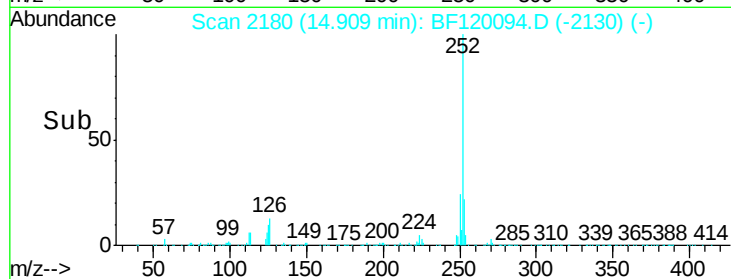
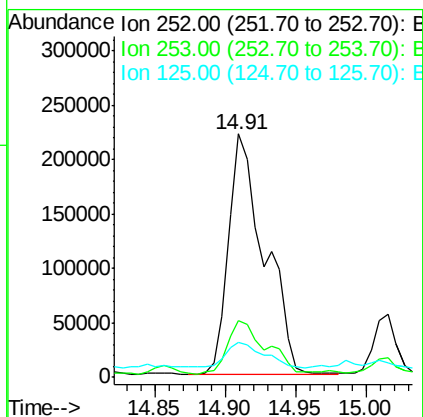
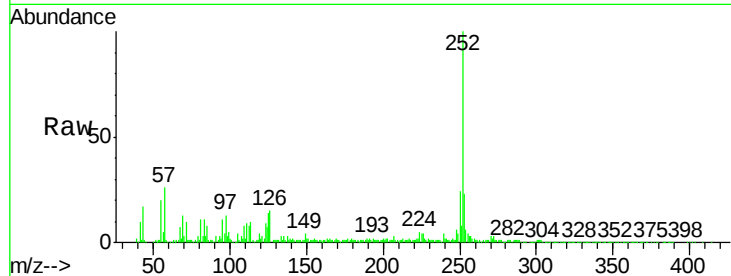




#88
Benzo(b)fluoranthene
Concen: 18.664 ng
RT: 14.91 min Scan# 2180
Delta R.T. -0.01 min
Lab File: BF120094.D
Acq: 20 Apr 2020 22:46

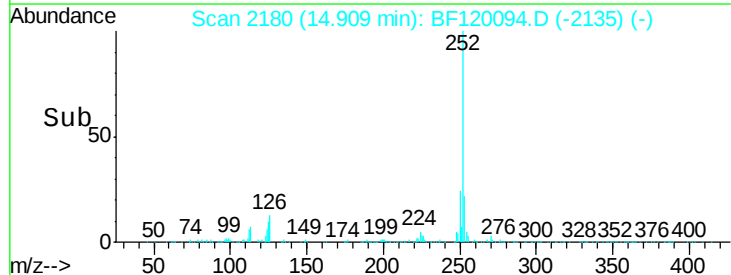
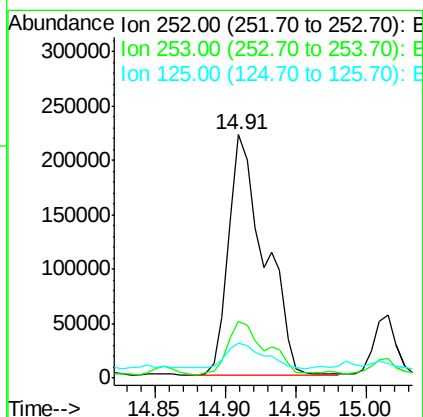
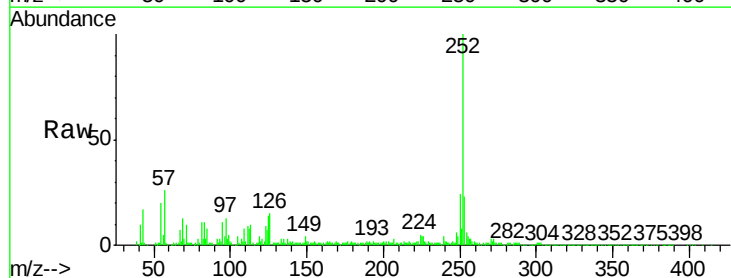
Instrument :
BNA_F
ClientSampled :

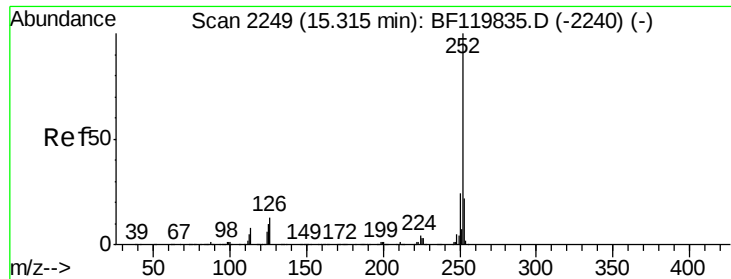
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.7	26.5
125	14.3	7.4	11.2#



#89
Benzo(k)fluoranthene
Concen: 21.632 ng
RT: 14.91 min Scan# 2180
Delta R.T. -0.04 min
Lab File: BF120094.D
Acq: 20 Apr 2020 22:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.8	26.8
125	14.3	7.7	11.5#





#90

Benzo(a)pyrene

Concen: 14.840 ng

RT: 15.26 min Scan# 2239

Delta R.T. -0.01 min

Lab File: BF120094.D

Acq: 20 Apr 2020 22:46

Instrument :

BNA_F

ClientSampleId :

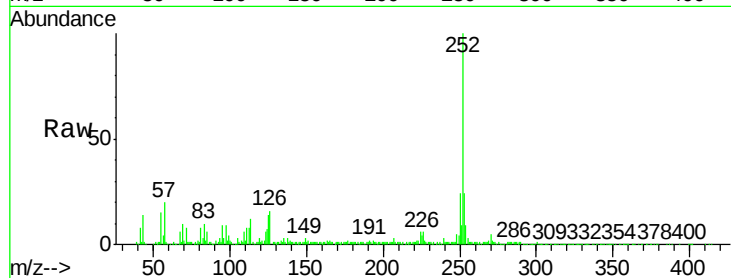
Tot Ion:252 Resp: 263619

Ion Ratio Lower Upper

252 100

253 23.7 17.4 26.2

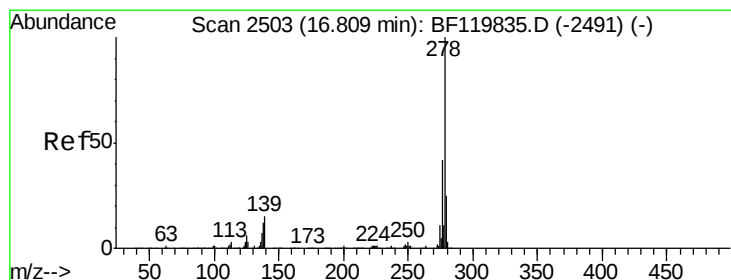
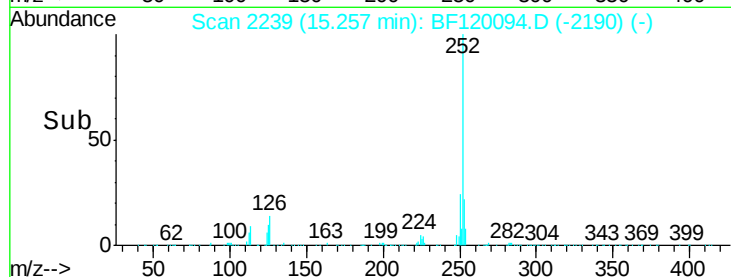
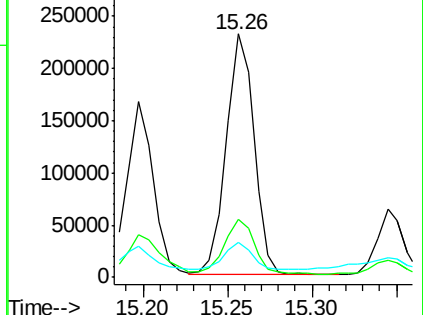
125 14.3 8.3 12.5#



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: 2.369 ng

RT: 16.70 min Scan# 2485

Delta R.T. -0.04 min

Lab File: BF120094.D

Acq: 20 Apr 2020 22:46

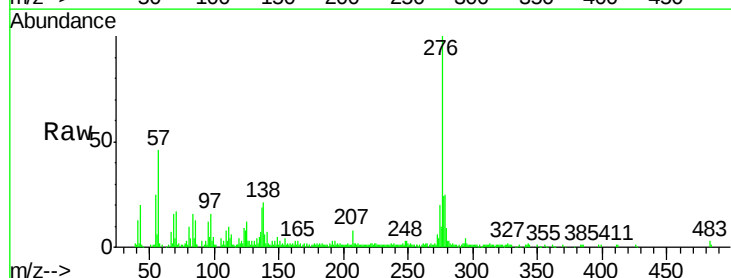
Tgt Ion:278 Resp: 37281

Ion Ratio Lower Upper

278 100

139 26.2 11.6 17.4#

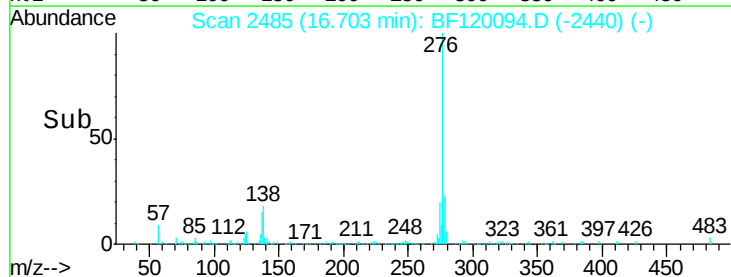
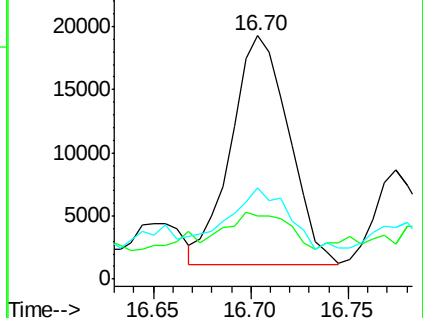
279 37.4 19.7 29.5#

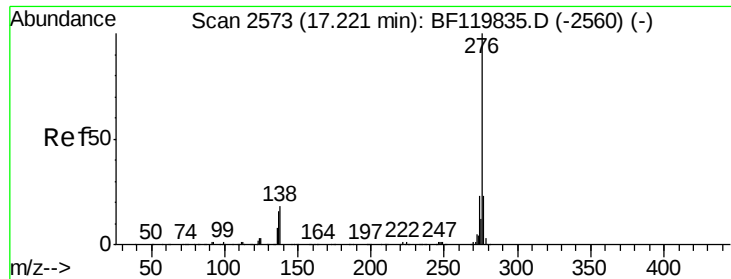


Abundance Ion 278.00 (277.70 to 278.70): E

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: 8.594 ng

RT: 17.12 min Scan# 2556

Delta R.T. -0.02 min

Lab File: BF120094.D

Acq: 20 Apr 2020 22:46

Instrument :

BNA_F

ClientSampleId :

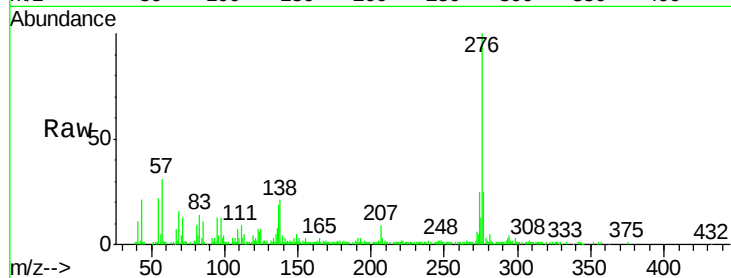
Tot Ion:276 Resp: 133479

Ion Ratio Lower Upper

276 100

277 24.8 18.5 27.7

138 20.7 14.6 22.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

