

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110218\
 Data File : BF110421.D
 Acq On : 2 Nov 2018 19:34
 Operator : JU/SJ
 Sample : J5759-21 20X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Nov 03 00:51:35 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 01 16:06:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.95	152	98575	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	406933	20.00	ng	0.00
39) Acenaphthene-d10	9.99	164	173492	20.00	ng	0.00
64) Phenanthrene-d10	11.49	188	259094	20.00	ng	0.00
76) Chrysene-d12	14.14	240	174420	20.00	ng	0.00
87) Perylene-d12	15.66	264	165097	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.57	112	22060	3.64	ng	0.00
7) Phenol-d6	6.57	99	33489	4.33	ng	0.00
23) Nitrobenzene-d5	7.52	82	20380	2.97	ng	0.00
42) 2,4,6-Tribromophenol	10.79	330	3817	2.22	ng	0.00
45) 2-Fluorobiphenyl	9.31	172	37470	3.39	ng	0.00
79) Terphenyl-d14	13.06	244	23760	2.83	ng	-0.01

Target Compounds

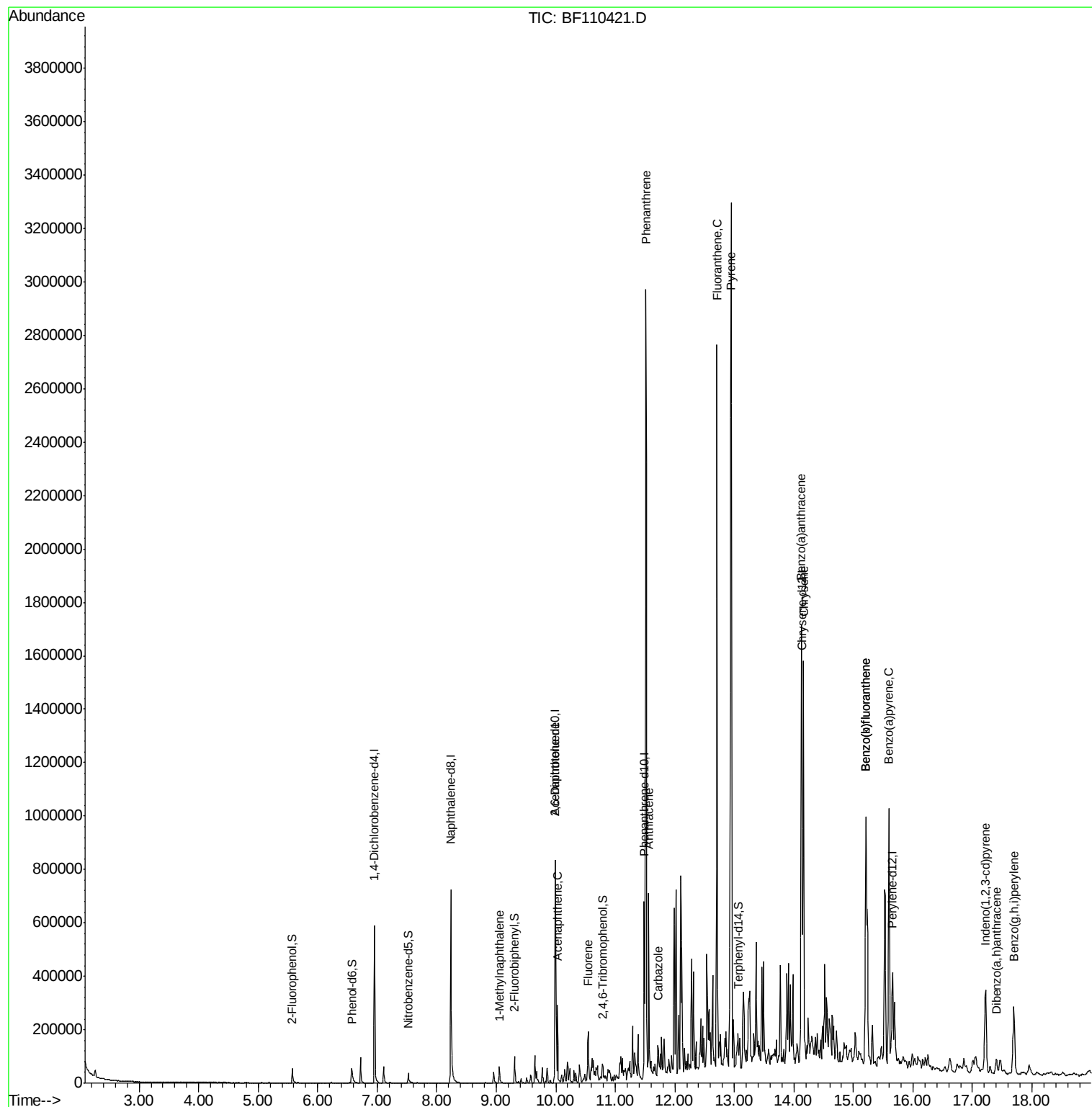
						Qvalue
9) Benzaldehyde	6.72	77	507	Below Cal	#	69
38) 1-Methylnaphthalene	9.05	142	24369	2.032 ng		95
51) 2,6-Dinitrotoluene	9.99	165	23386	8.477 ng	#	22
52) Acenaphthene	10.03	154	57692	5.247 ng		97
58) Fluorene	10.55	166	51919	4.531 ng		95
71) Phenanthrene	11.52	178	1170343	86.328 ng		99
72) Anthracene	11.56	178	255021	18.767 ng		98
73) Carbazole	11.72	167	39075	2.945 ng		95
75) Fluoranthene	12.71	202	1198189	87.085 ng		98
77) Benzidine	12.86	184	114	Below Cal	#	65
78) Pyrene	12.94	202	1573133	125.806 ng		99
81) Benzo(a)anthracene	14.13	228	645337	62.391 ng		98
83) Chrysene	14.16	228	558159	56.814 ng		98
86) Indeno(1,2,3-cd)pyrene	17.22	276	199020	24.419 ng		99
88) Benzo(b)fluoranthene	15.21	252	738945	77.508 ng		98
89) Benzo(k)fluoranthene	15.21	252	737460	78.682 ng	#	97
90) Benzo(a)pyrene	15.60	252	457045	52.099 ng		99
91) Dibenzo(a,h)anthracene	17.40	278	41601	5.496 ng		97
92) Benzo(a,h,i)perylene	17.70	276	220109	29.509 ng		97

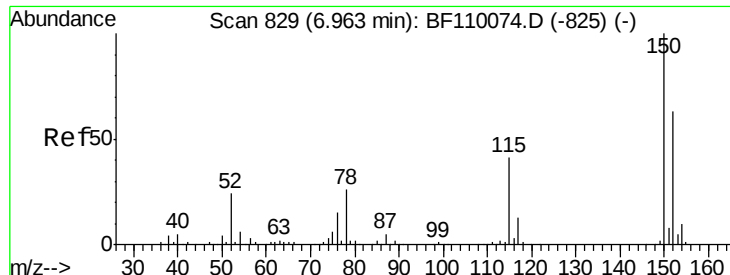
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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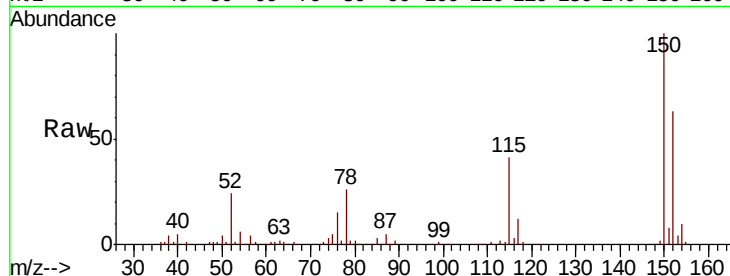


#1

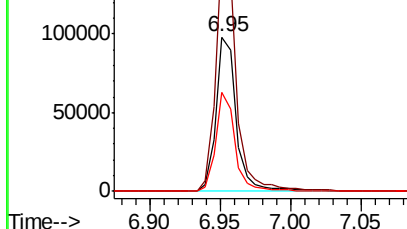
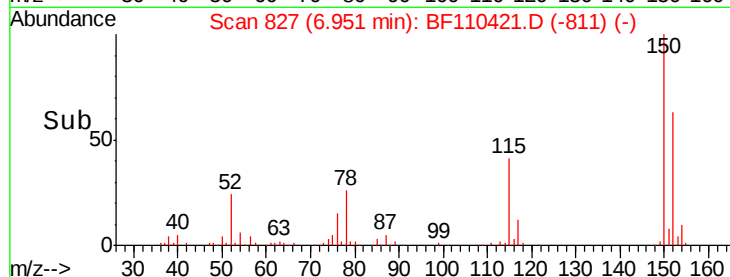
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.95 min Scan# 827
Delta R.T. -0.01 min
Lab File: BF110421.D
Acq: 2 Nov 2018 19:34

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 98575
Ion Ratio Lower Upper
152 100
150 157.6 122.7 184.1
115 64.3 49.1 73.7



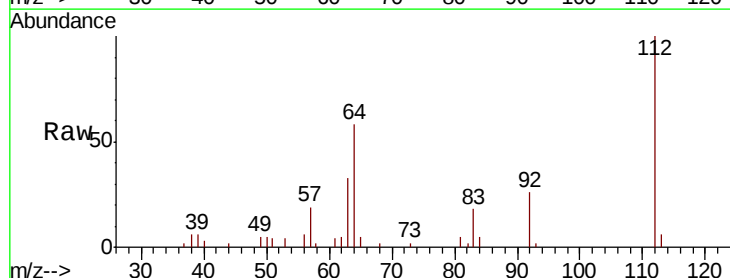
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



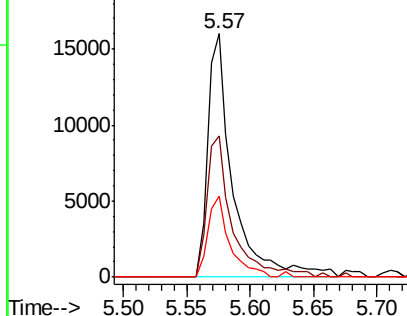
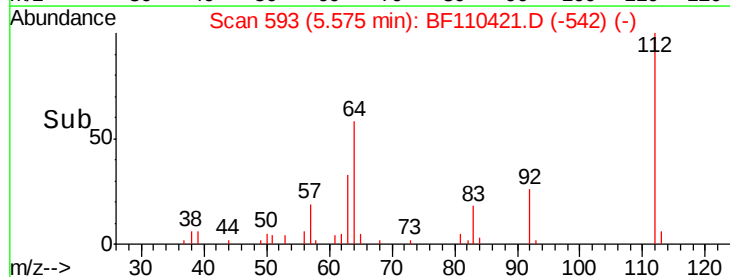
#5

2-Fluorophenol
Concen: 3.644 ng
RT: 5.57 min Scan# 593
Delta R.T. 0.00 min
Lab File: BF110421.D
Acq: 2 Nov 2018 19:34

Tgt Ion:112 Resp: 22060
Ion Ratio Lower Upper
112 100
64 57.8 44.1 66.1
63 33.0 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 4.325 ng

RT: 6.57 min Scan# 763

Delta R.T. -0.01 min

Lab File: BF110421.D

Acq: 2 Nov 2018 19:34

Instrument :

BNA_F

ClientSampleId :

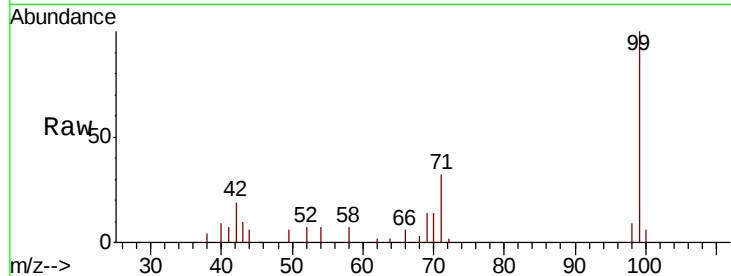
Tot Ion: 99 Resp: 33489

Ion Ratio Lower Upper

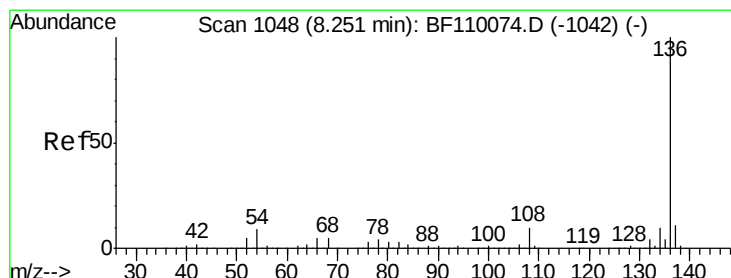
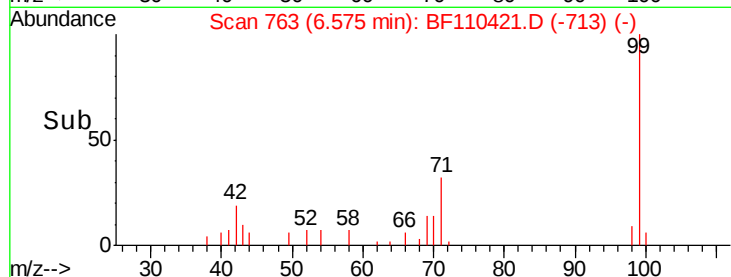
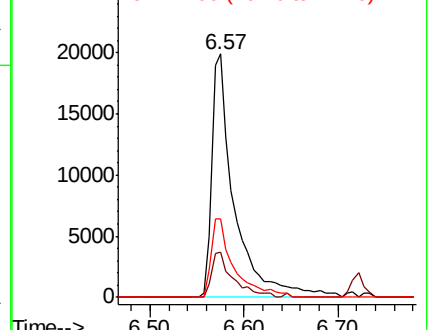
99 100

42 18.6 15.8 23.6

71 32.4 28.0 42.0



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.24 min Scan# 1046

Delta R.T. 0.00 min

Lab File: BF110421.D

Acq: 2 Nov 2018 19:34

Tgt Ion: 136 Resp: 406933

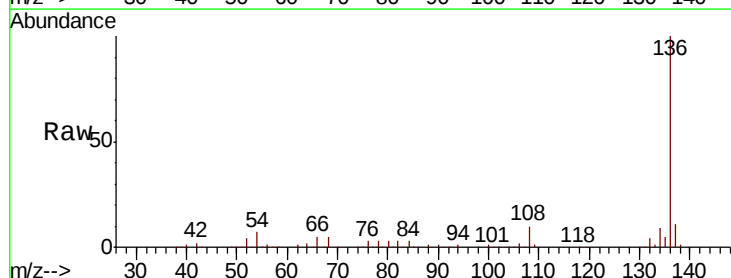
Ion Ratio Lower Upper

136 100

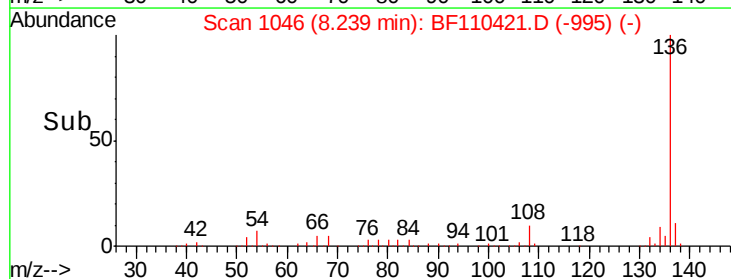
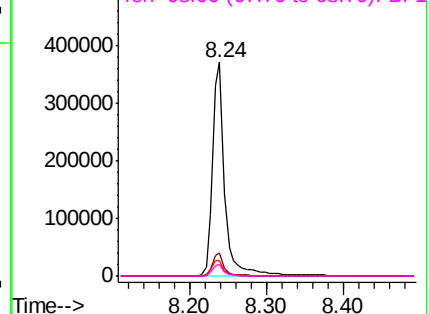
137 10.8 8.8 13.2

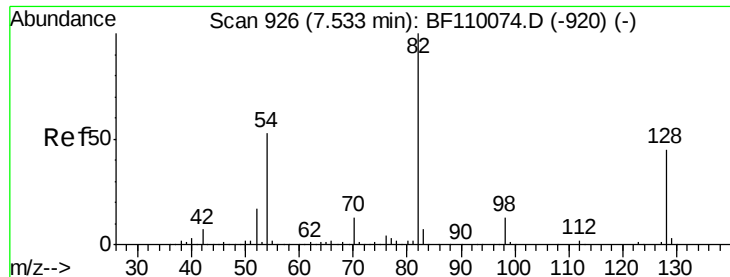
54 7.3 5.4 8.2

68 5.2 4.2 6.2



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

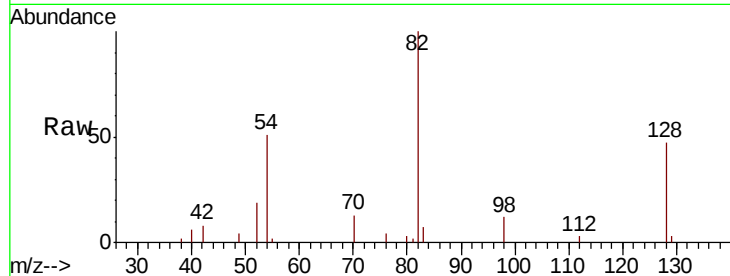




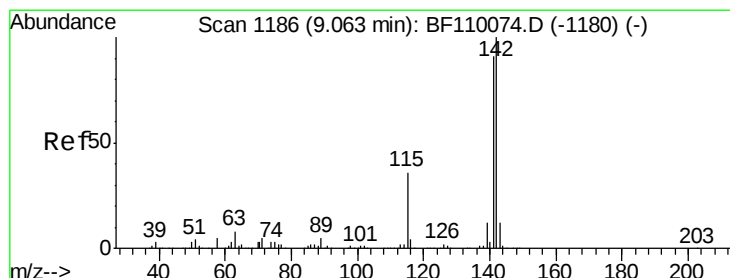
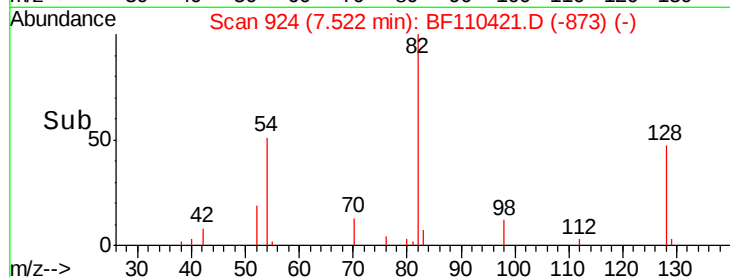
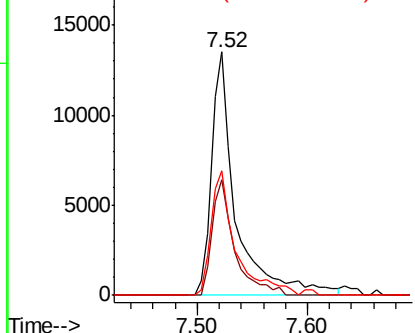
#23
Nitrobenzene-d5
Concen: 2.971 ng
RT: 7.52 min Scan# 924
Delta R.T. 0.00 min
Lab File: BF110421.D
Acq: 2 Nov 2018 19:34

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 20380
Ion Ratio Lower Upper
82 100
128 47.4 34.2 51.2
54 51.3 38.6 58.0

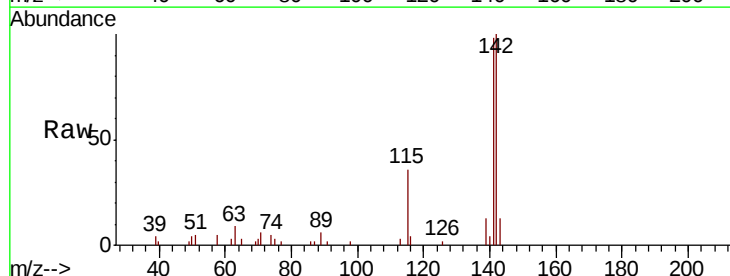


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

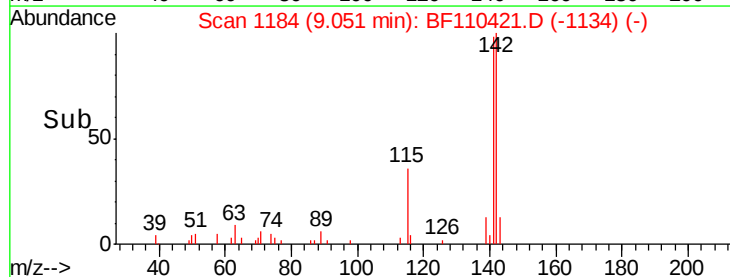
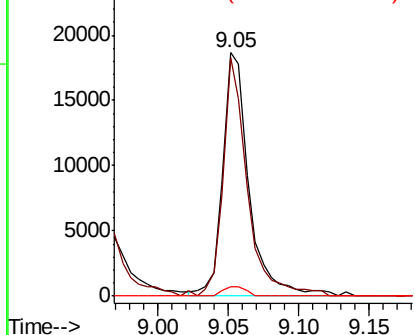


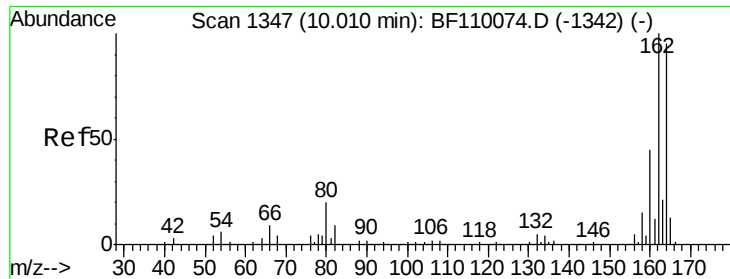
#38
1-Methylnaphthalene
Concen: 2.032 ng
RT: 9.05 min Scan# 1184
Delta R.T. -0.01 min
Lab File: BF110421.D
Acq: 2 Nov 2018 19:34

Tgt Ion: 142 Resp: 24369
Ion Ratio Lower Upper
142 100
141 98.1 74.2 111.4
116 3.7 2.6 4.0



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E

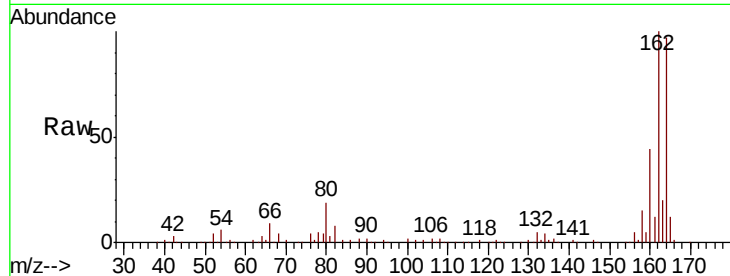




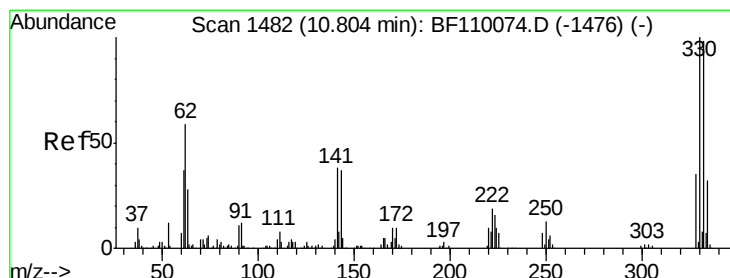
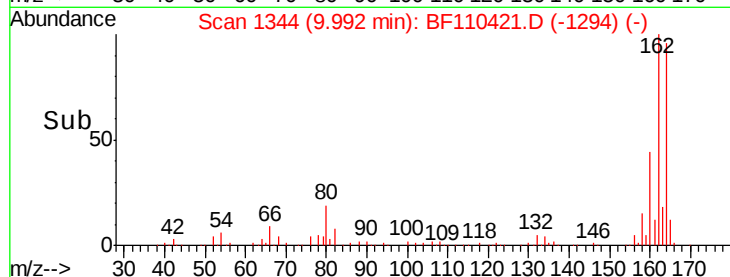
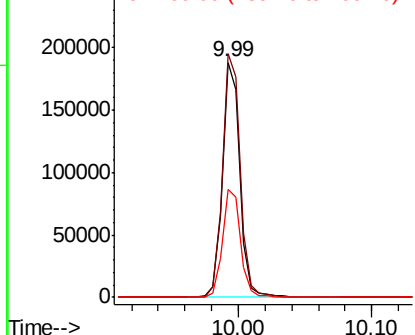
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.99 min Scan# 1344
Delta R.T. -0.01 min
Lab File: BF110421.D
Acq: 2 Nov 2018 19:34

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 173492
Ion Ratio Lower Upper
164 100
162 103.5 83.0 124.6
160 45.9 37.0 55.6

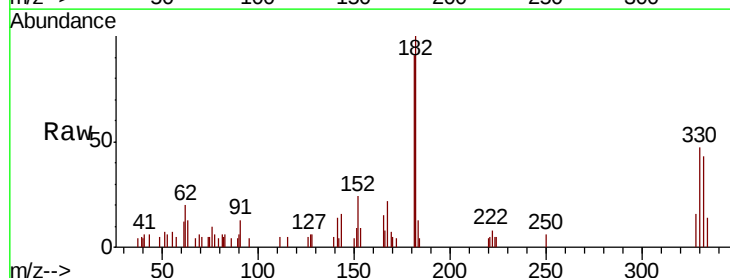


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

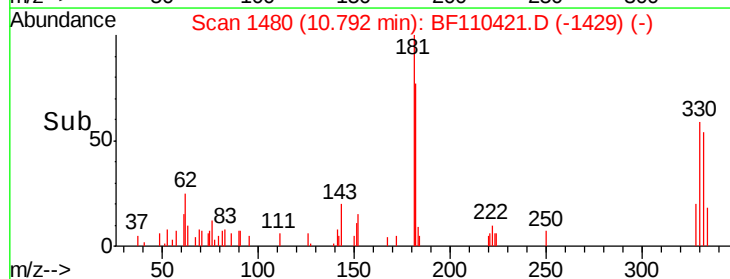
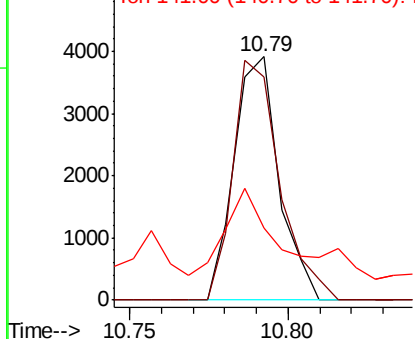


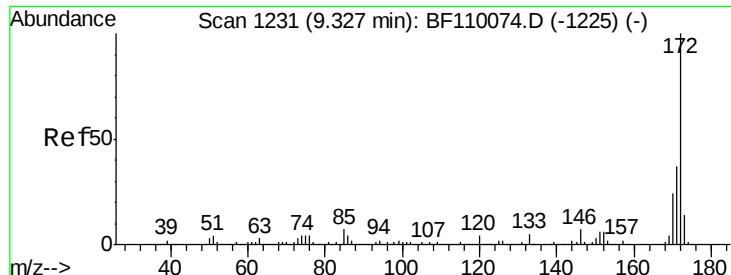
#42
2,4,6-Tribromophenol
Concen: 2.221 ng
RT: 10.79 min Scan# 1480
Delta R.T. 0.00 min
Lab File: BF110421.D
Acq: 2 Nov 2018 19:34

Tgt Ion:330 Resp: 3817
Ion Ratio Lower Upper
330 100
332 103.0 77.1 115.7
141 86.8 27.0 40.4#



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

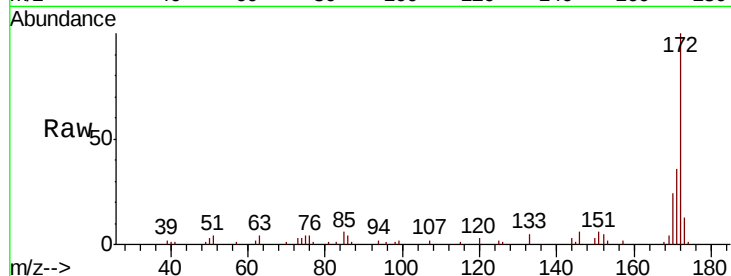




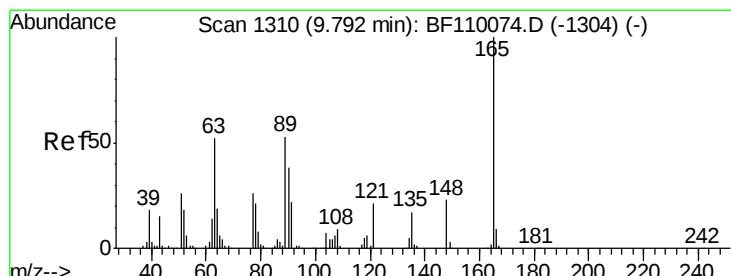
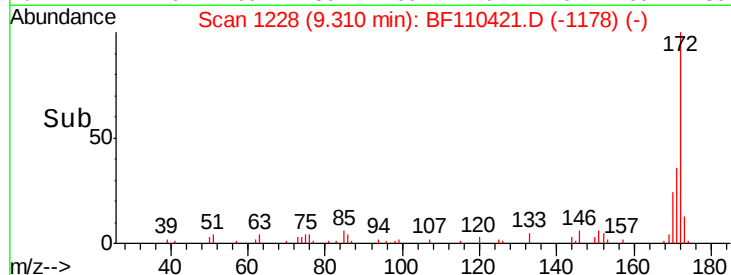
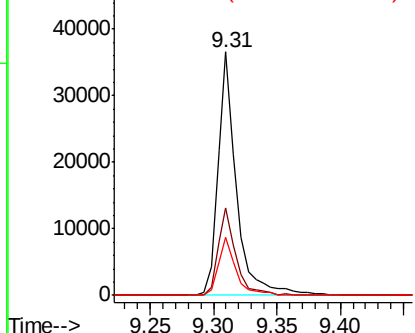
#45
 2-Fluorobiphenyl
 Concen: 3.391 ng
 RT: 9.31 min Scan# 1228
 Delta R.T. -0.01 min
 Lab File: BF110421.D
 Acq: 2 Nov 2018 19:34

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 37470
 Ion Ratio Lower Upper
 172 100
 171 35.9 28.6 43.0
 170 23.8 19.7 29.5

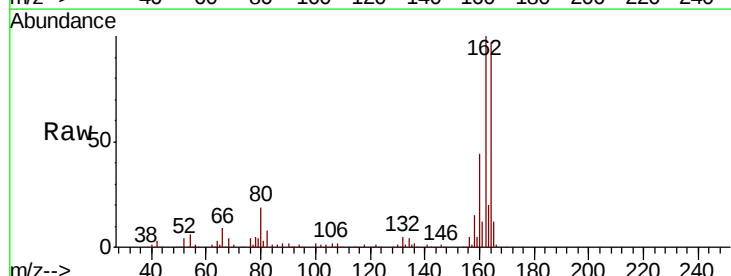


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

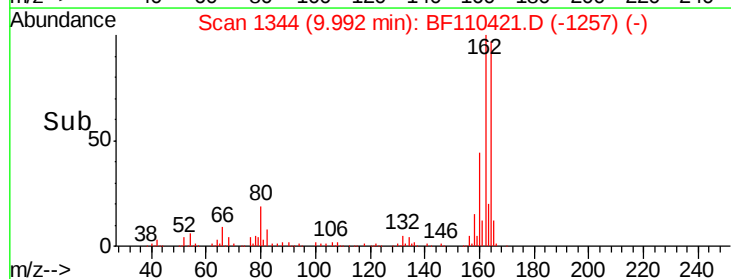
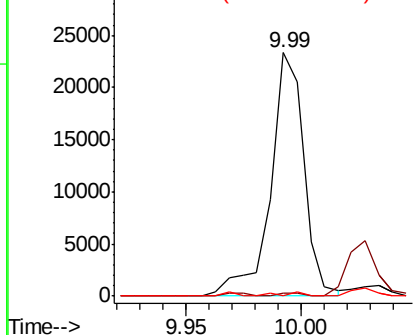


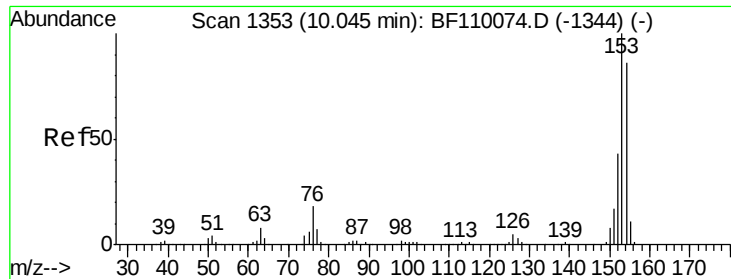
#51
 2,6-Dinitrotoluene
 Concen: 8.477 ng
 RT: 9.99 min Scan# 1344
 Delta R.T. 0.21 min
 Lab File: BF110421.D
 Acq: 2 Nov 2018 19:34

Tgt Ion:165 Resp: 23386
 Ion Ratio Lower Upper
 165 100
 63 1.5 48.9 73.3#
 89 0.0 46.6 69.8#



Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1





#52

Acenaphthene

Concen: 5.247 ng

RT: 10.03 min Scan# 1350

Delta R.T. -0.01 min

Lab File: BF110421.D

Acq: 2 Nov 2018 19:34

Instrument :

BNA_F

ClientSampled :

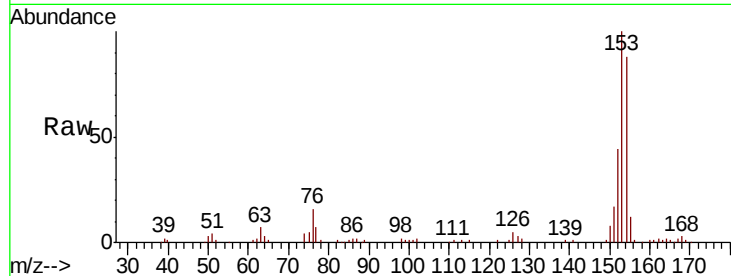
Tot Ion:154 Resp: 57692

Ion Ratio Lower Upper

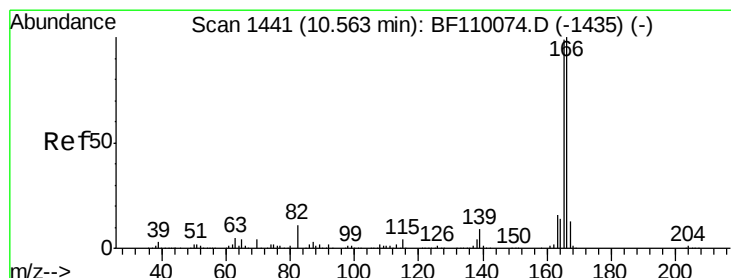
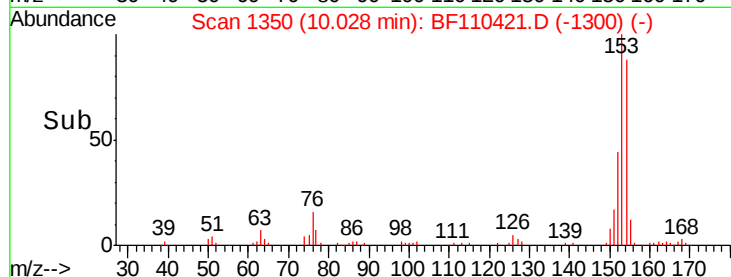
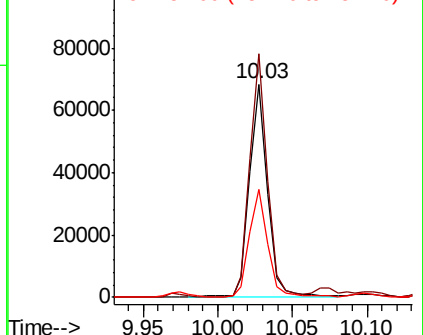
154 100

153 114.1 90.1 135.1

152 50.8 43.4 65.2



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#58

Fluorene

Concen: 4.531 ng

RT: 10.55 min Scan# 1438

Delta R.T. -0.01 min

Lab File: BF110421.D

Acq: 2 Nov 2018 19:34

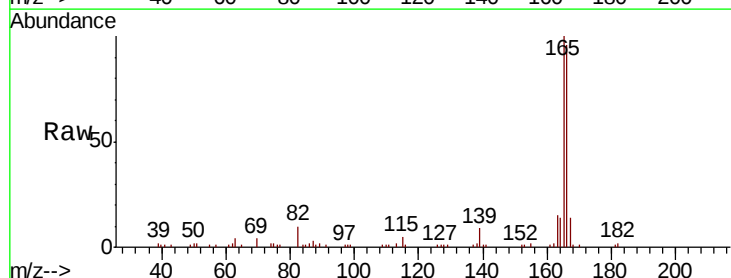
Tgt Ion:166 Resp: 51919

Ion Ratio Lower Upper

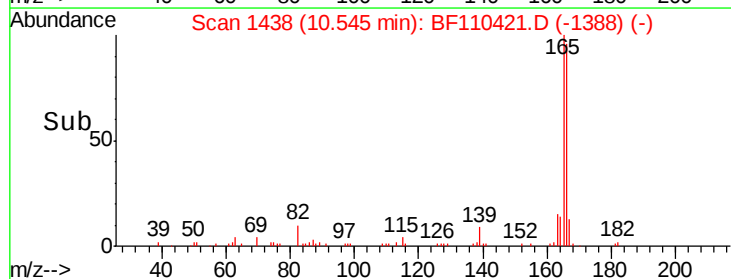
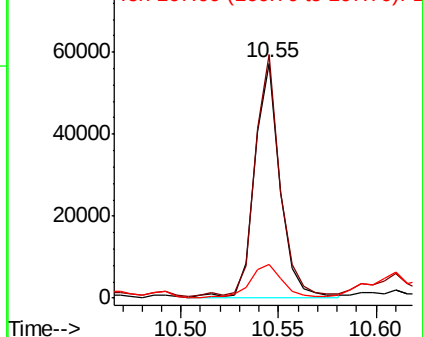
166 100

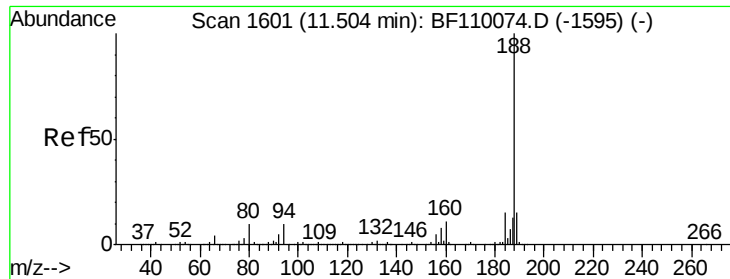
165 103.7 78.6 117.8

167 14.6 10.8 16.2



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

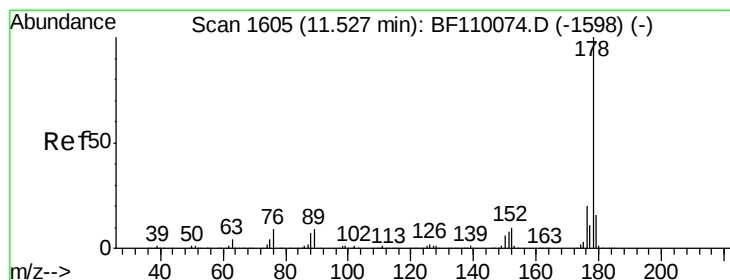
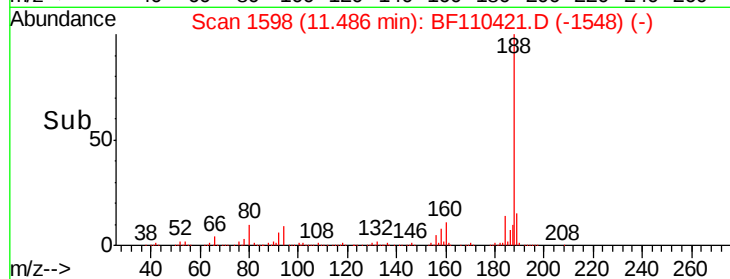
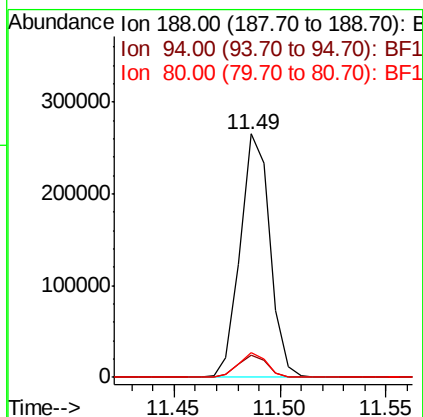
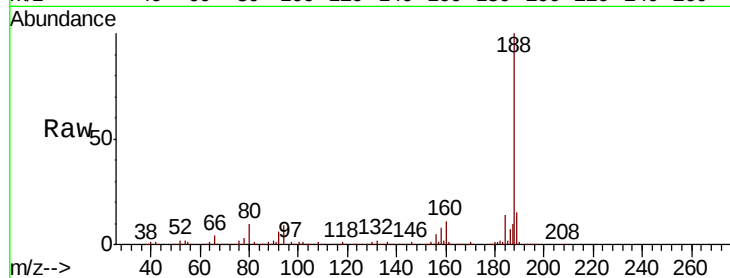




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.49 min Scan# 1598
Delta R.T. -0.01 min
Lab File: BF110421.D
Acq: 2 Nov 2018 19:34

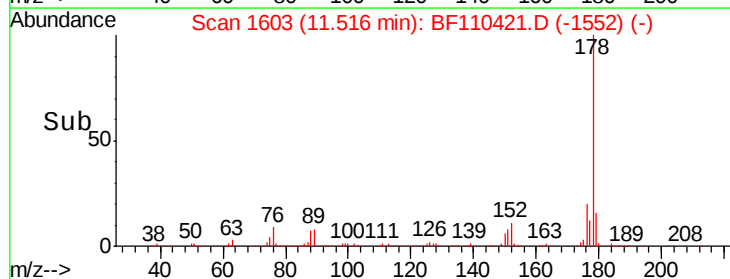
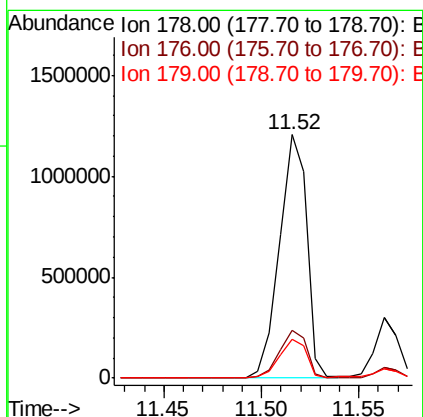
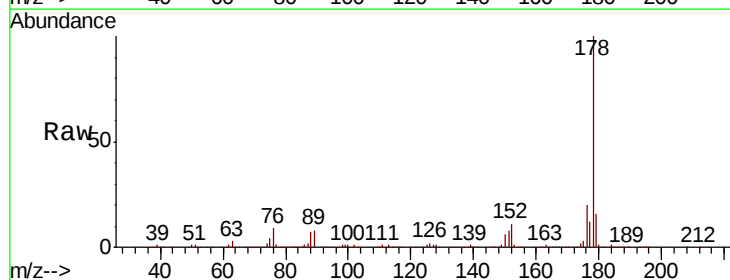
Instrument :
BNA_F
ClientSampleId :

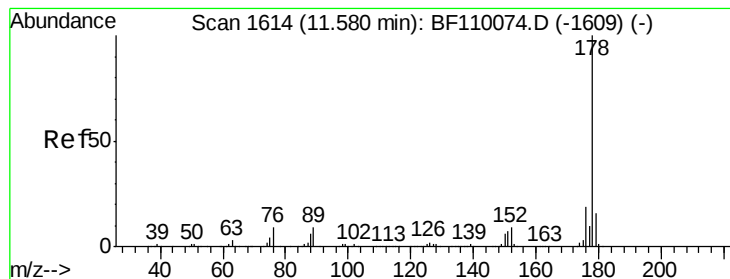
Tot Ion:188 Resp: 259094
Ion Ratio Lower Upper
188 100
94 9.1 7.2 10.8
80 10.1 7.9 11.9



#71
Phenanthrene
Concen: 86.328 ng
RT: 11.52 min Scan# 1603
Delta R.T. 0.00 min
Lab File: BF110421.D
Acq: 2 Nov 2018 19:34

Tgt Ion:178 Resp: 1170343
Ion Ratio Lower Upper
178 100
176 19.6 15.5 23.3
179 16.0 12.5 18.7





#72

Anthracene

Concen: 18.767 ng

RT: 11.56 min Scan# 1611

Delta R.T. -0.01 min

Lab File: BF110421.D

Acq: 2 Nov 2018 19:34

Instrument :

BNA_F

ClientSampleId :

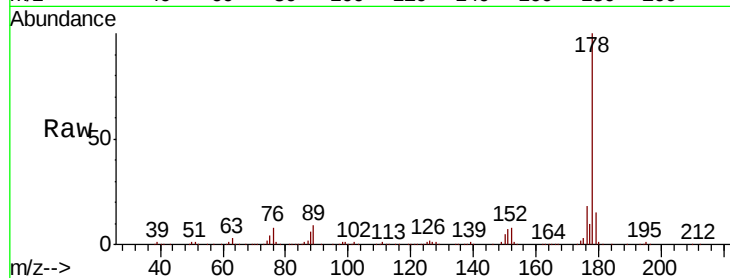
Tot Ion:178 Resp: 255021

Ion Ratio Lower Upper

178 100

176 18.1 15.4 23.2

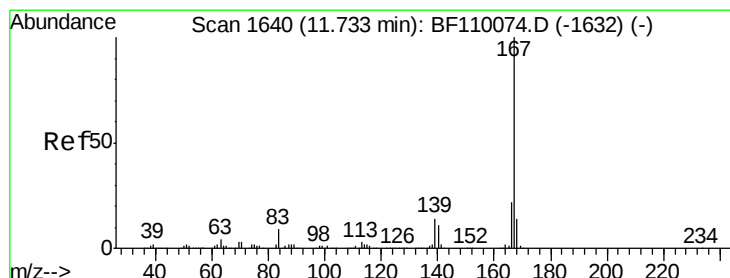
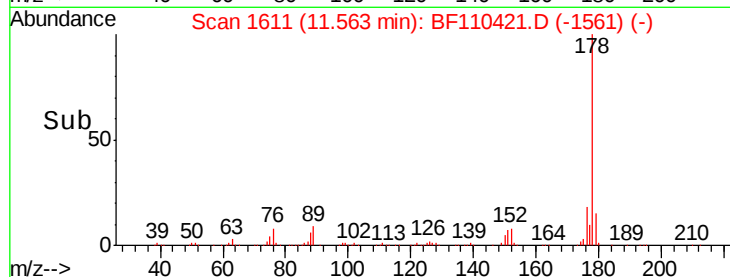
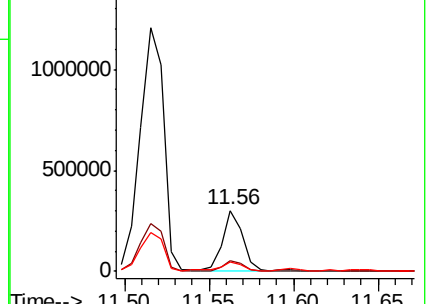
179 15.3 12.6 18.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 2.945 ng

RT: 11.72 min Scan# 1637

Delta R.T. -0.01 min

Lab File: BF110421.D

Acq: 2 Nov 2018 19:34

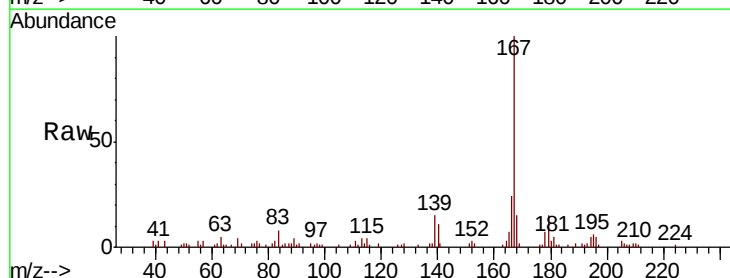
Tgt Ion:167 Resp: 39075

Ion Ratio Lower Upper

167 100

166 24.3 17.4 26.0

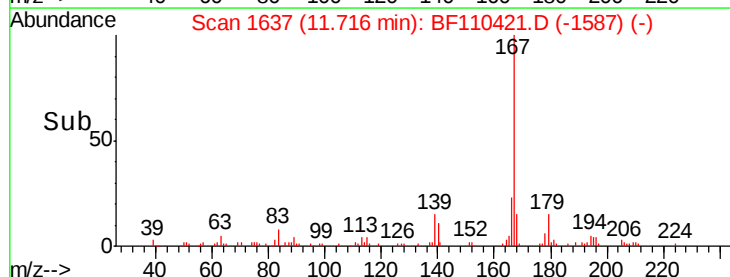
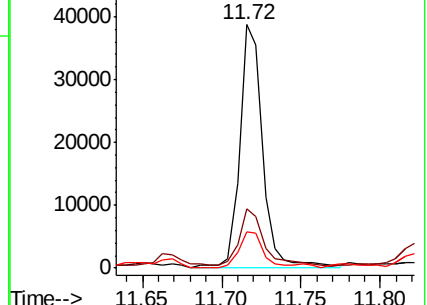
139 14.8 10.9 16.3

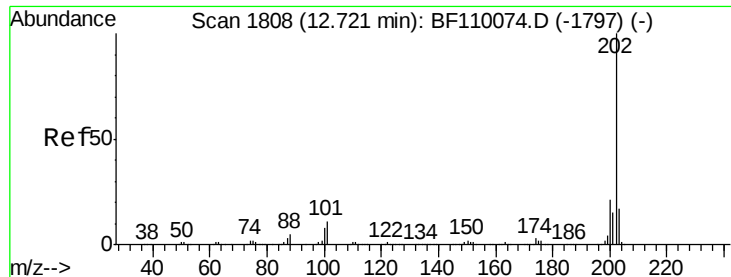


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 87.085 ng

RT: 12.71 min Scan# 1806

Delta R.T. 0.00 min

Lab File: BF110421.D

Acq: 2 Nov 2018 19:34

Instrument :

BNA_F

ClientSampleId :

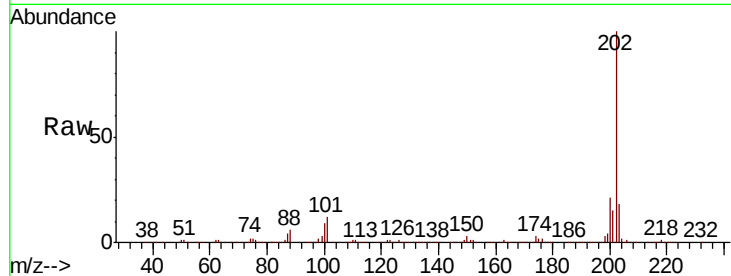
Tot Ion:202 Resp: 1198189

Ion Ratio Lower Upper

202 100

101 12.3 0.0 31.4

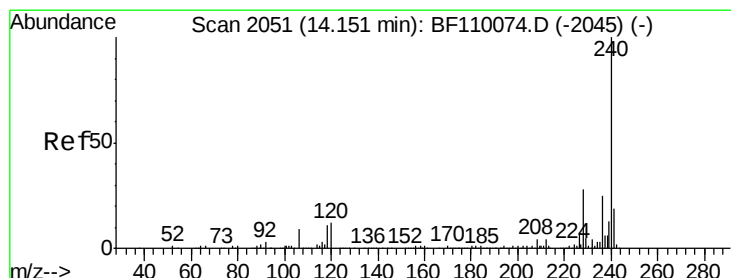
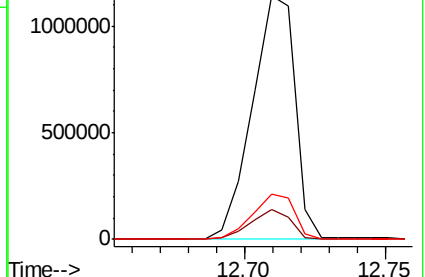
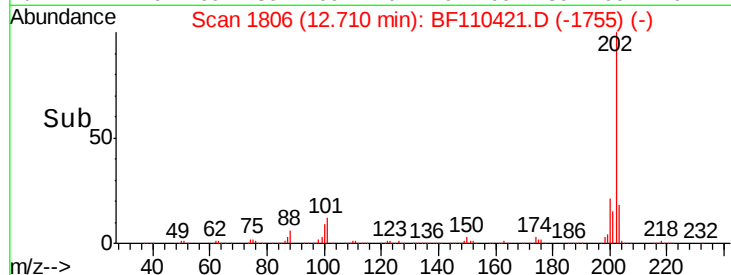
203 18.4 0.0 37.7



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.14 min Scan# 2049

Delta R.T. 0.00 min

Lab File: BF110421.D

Acq: 2 Nov 2018 19:34

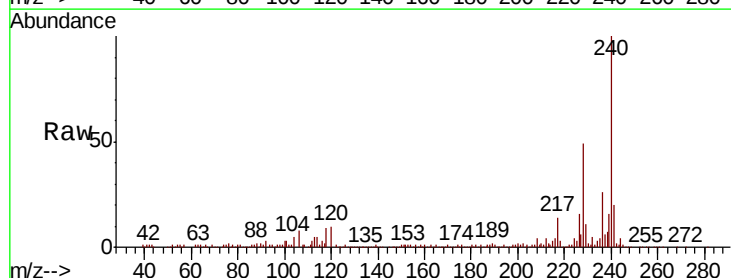
Tgt Ion:240 Resp: 174420

Ion Ratio Lower Upper

240 100

120 10.2 8.3 12.5

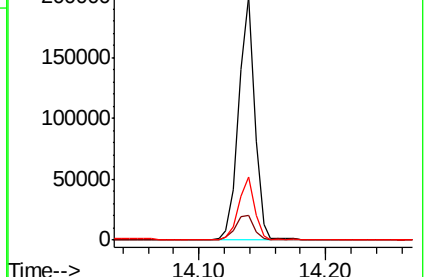
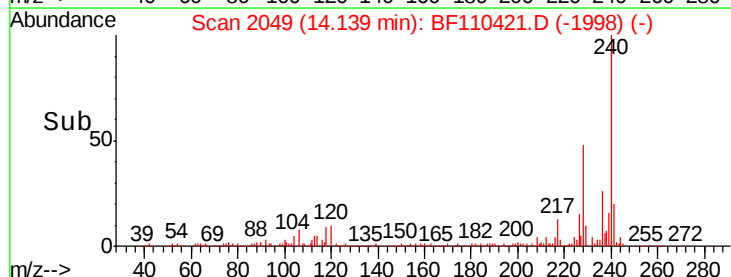
236 25.9 21.2 31.8

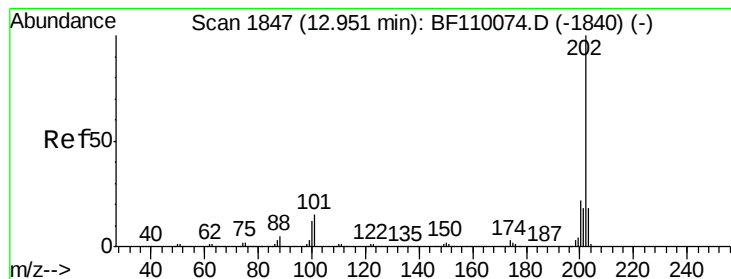


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 125.806 ng

RT: 12.94 min Scan# 1846

Delta R.T. 0.01 min

Lab File: BF110421.D

Acq: 2 Nov 2018 19:34

Instrument :

BNA_F

ClientSampleId :

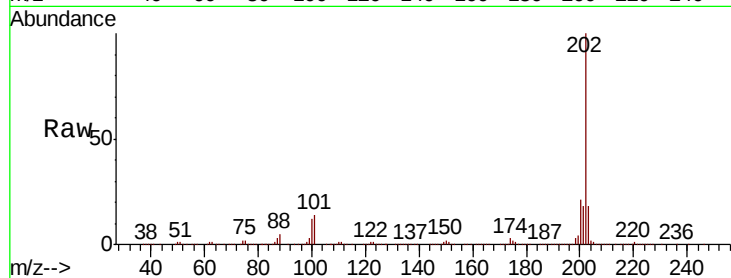
Tot Ion:202 Resp: 1573133

Ion Ratio Lower Upper

202 100

200 21.5 17.8 26.6

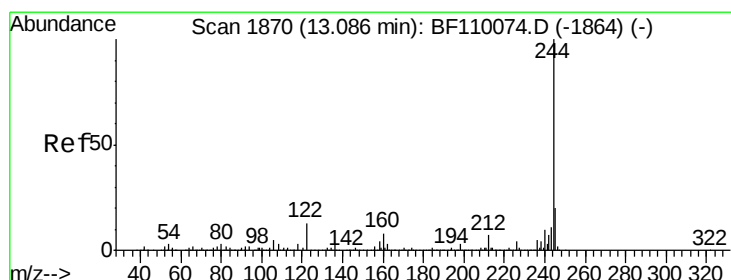
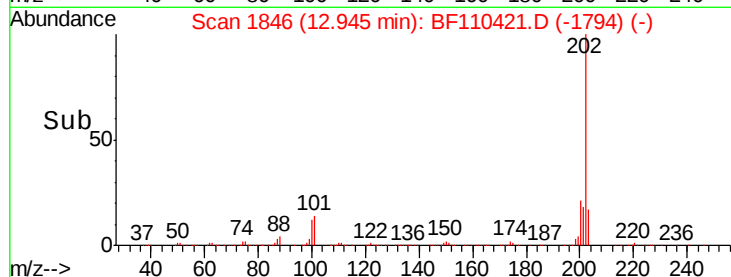
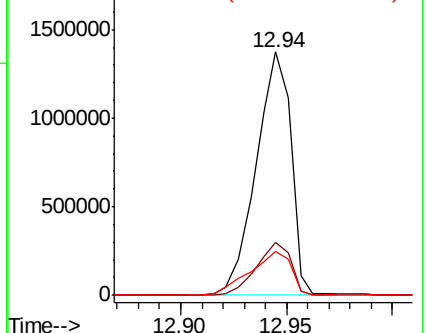
203 18.0 14.2 21.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 2.833 ng

RT: 13.06 min Scan# 1866

Delta R.T. -0.01 min

Lab File: BF110421.D

Acq: 2 Nov 2018 19:34

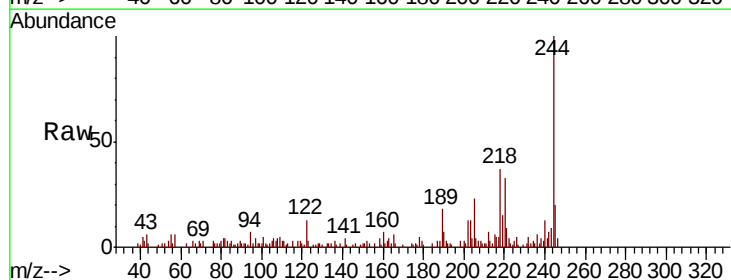
Tgt Ion:244 Resp: 23760

Ion Ratio Lower Upper

244 100

212 7.0 5.8 8.8

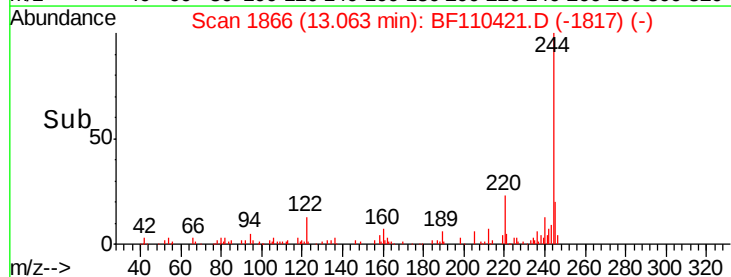
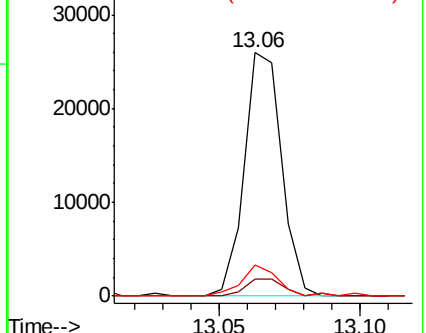
122 12.9 8.7 13.1

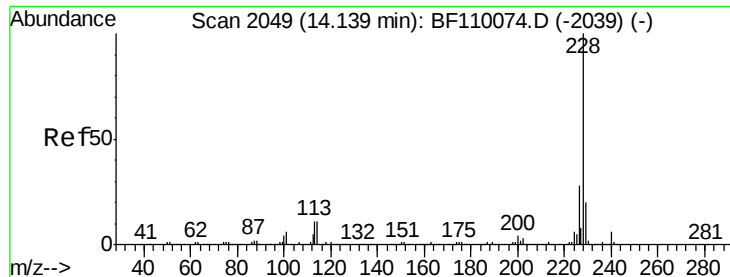


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 62.391 ng

RT: 14.13 min Scan# 2047

Delta R.T. 0.00 min

Lab File: BF110421.D

Acq: 2 Nov 2018 19:34

Instrument :

BNA_F

ClientSampleId :

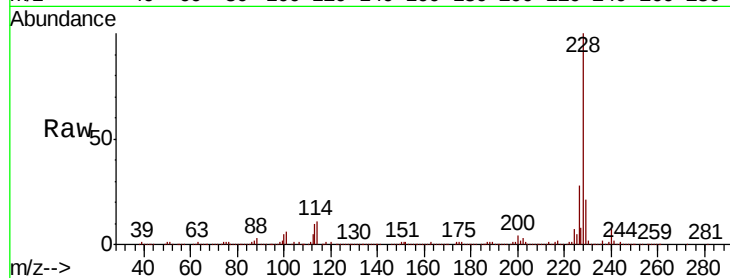
Tot Ion:228 Resp: 645337

Ion Ratio Lower Upper

228 100

226 28.5 22.1 33.1

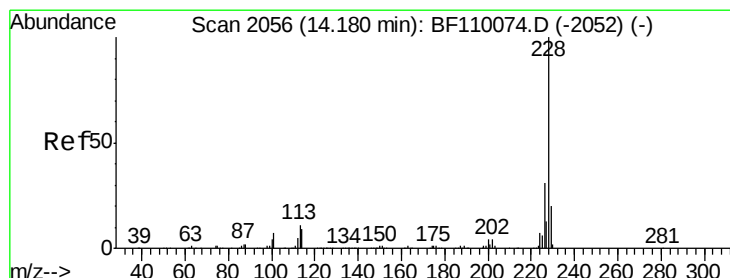
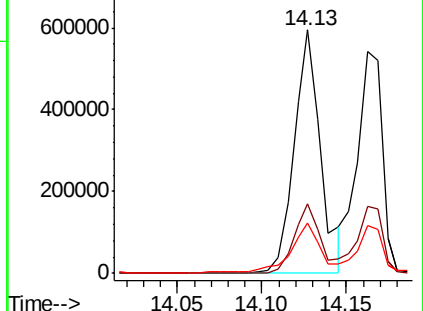
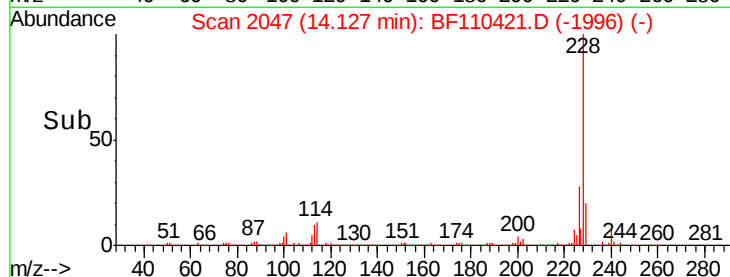
229 20.6 15.6 23.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 56.814 ng

RT: 14.16 min Scan# 2053

Delta R.T. -0.01 min

Lab File: BF110421.D

Acq: 2 Nov 2018 19:34

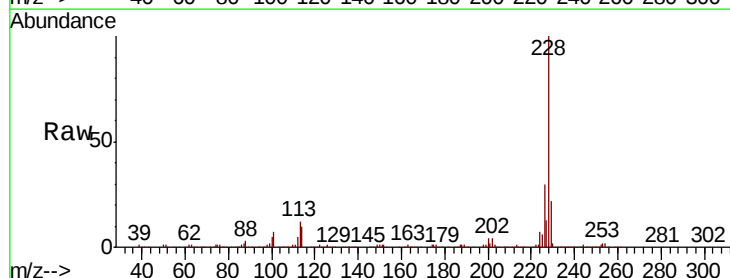
Tgt Ion:228 Resp: 558159

Ion Ratio Lower Upper

228 100

226 30.3 24.7 37.1

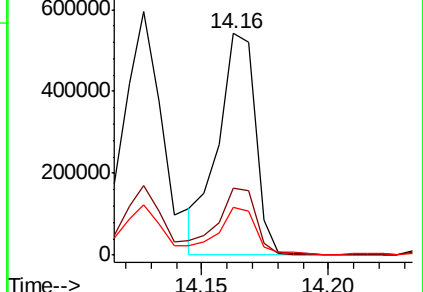
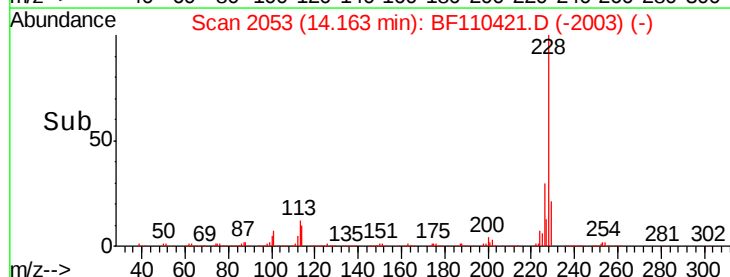
229 21.7 15.9 23.9

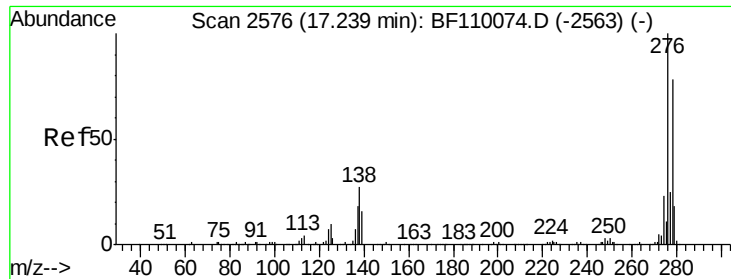


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

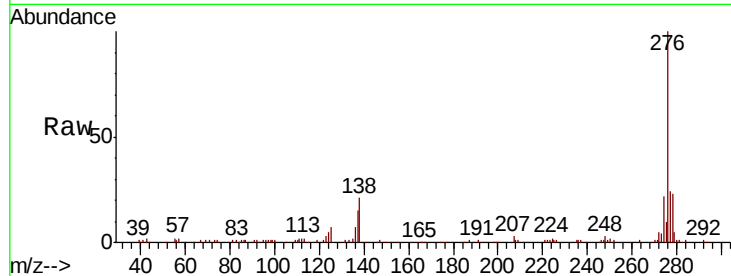




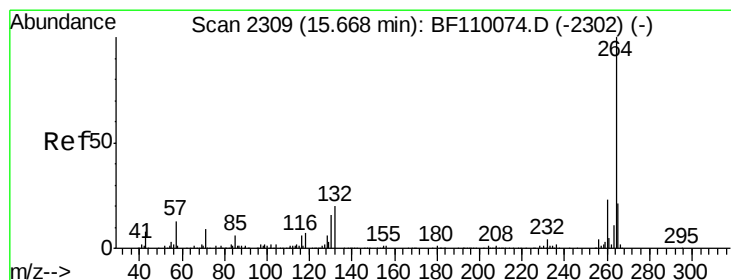
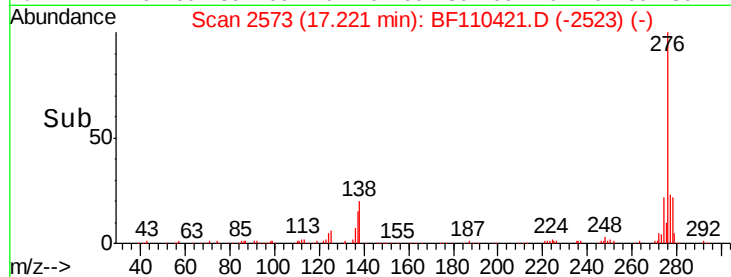
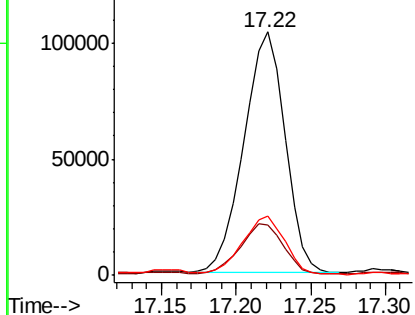
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 24.419 ng
 RT: 17.22 min Scan# 2573
 Delta R.T. -0.01 min
 Lab File: BF110421.D
 Acq: 2 Nov 2018 19:34

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.3	18.5	27.7
277	25.0	20.0	30.0

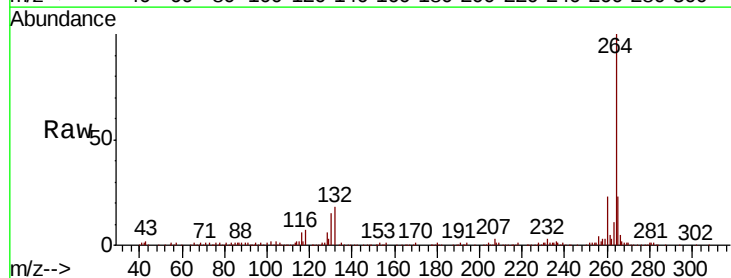


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

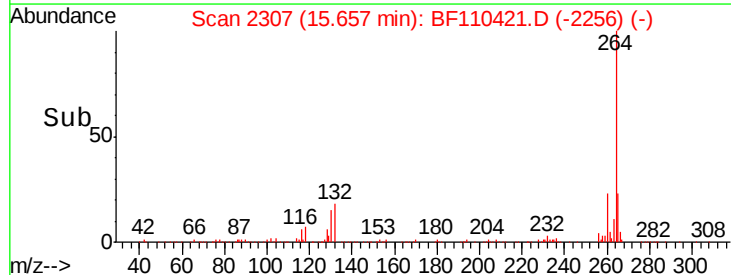
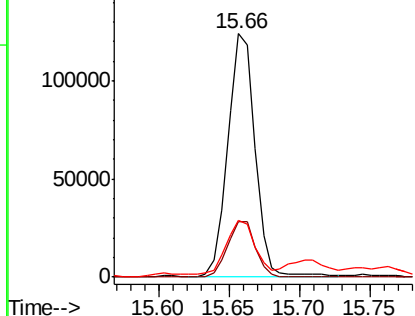


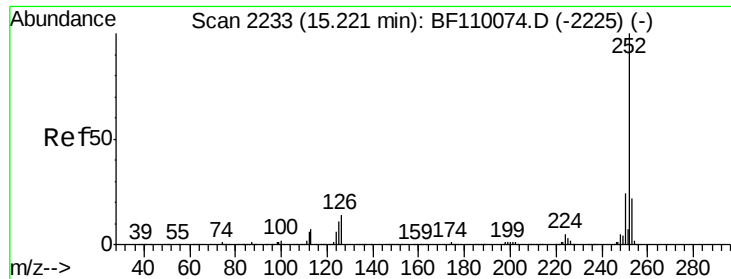
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.66 min Scan# 2307
 Delta R.T. 0.00 min
 Lab File: BF110421.D
 Acq: 2 Nov 2018 19:34

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.7	28.1
265	23.1	16.7	25.1



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E

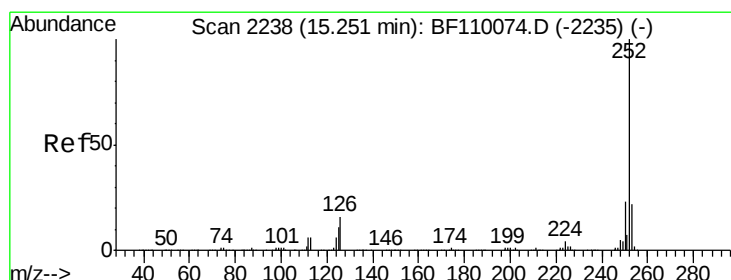
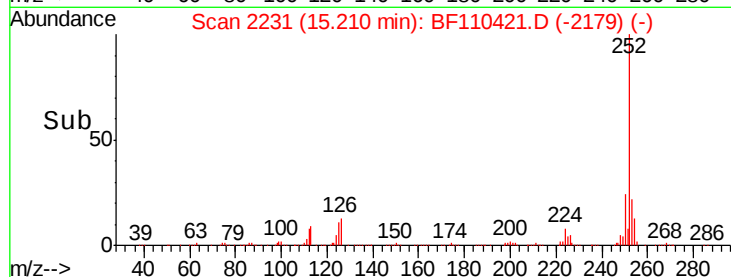
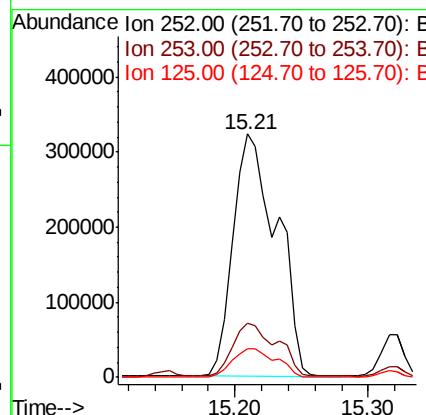
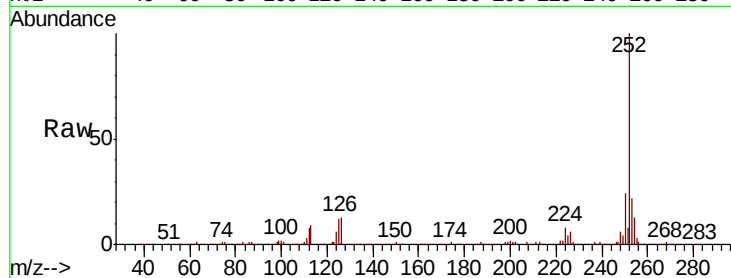




#88
Benzo(b)fluoranthene
Concen: 77.508 ng
RT: 15.21 min Scan# 2231
Delta R.T. 0.01 min
Lab File: BF110421.D
Acq: 2 Nov 2018 19:34

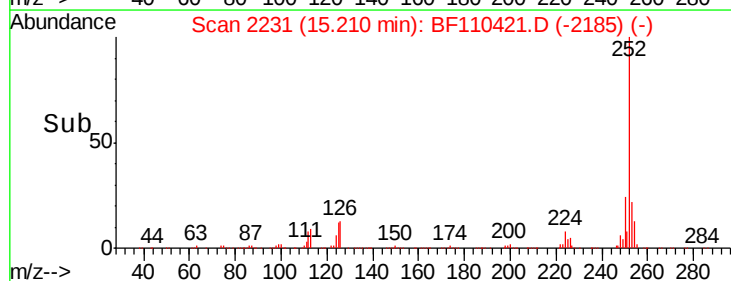
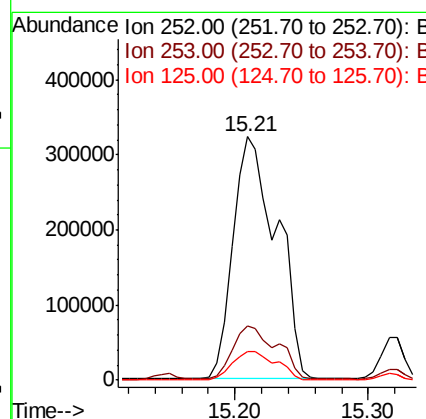
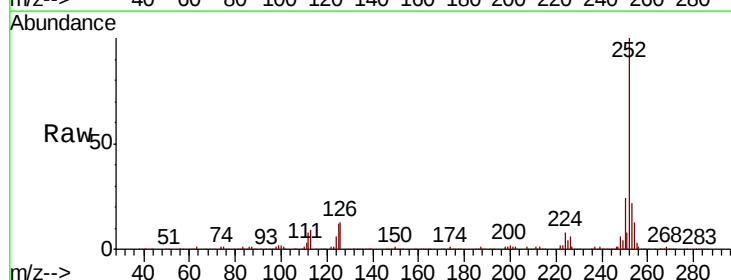
Instrument :
BNA_F
ClientSampleId :

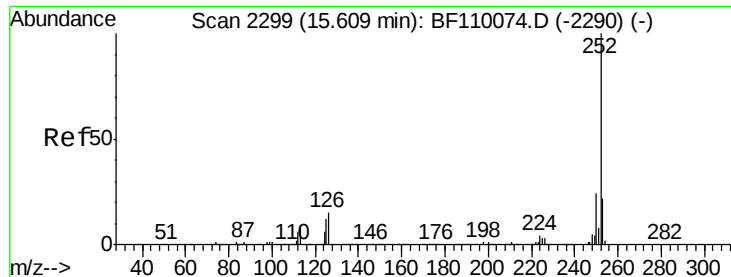
Tot Ion:252 Resp: 738945
Ion Ratio Lower Upper
252 100
253 22.2 17.2 25.8
125 11.7 8.2 12.4



#89
Benzo(k)fluoranthene
Concen: 78.682 ng
RT: 15.21 min Scan# 2231
Delta R.T. -0.03 min
Lab File: BF110421.D
Acq: 2 Nov 2018 19:34

Tgt Ion:252 Resp: 737460
Ion Ratio Lower Upper
252 100
253 22.2 17.2 25.8
125 11.7 7.4 11.0#





#90

Benzo(a)pyrene

Concen: 52.099 ng

RT: 15.60 min Scan# 2297

Delta R.T. 0.01 min

Lab File: BF110421.D

Acq: 2 Nov 2018 19:34

Instrument :

BNA_F

ClientSampled :

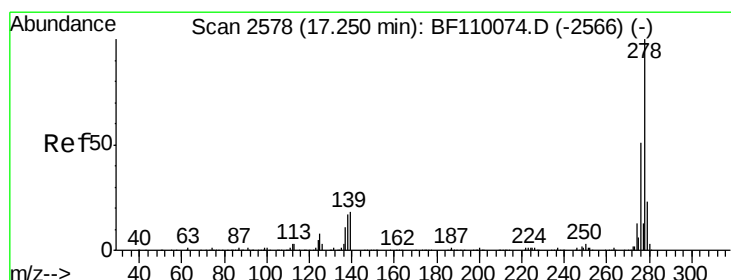
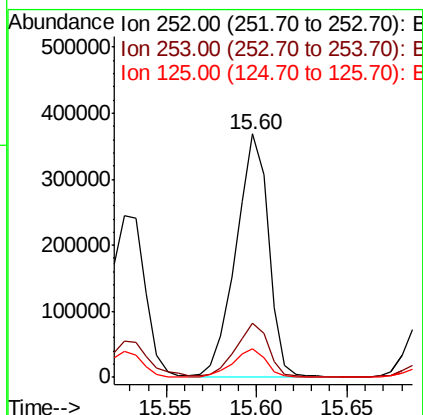
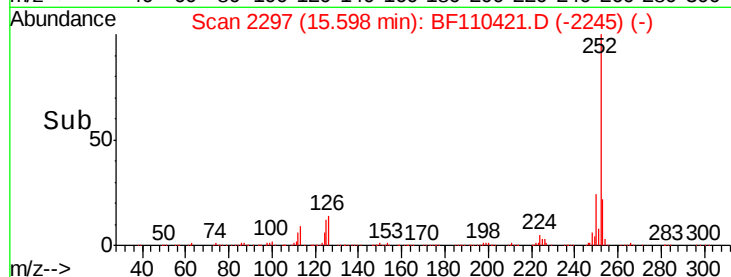
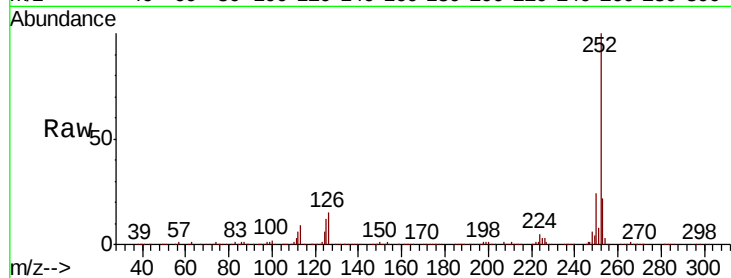
Tot Ion:252 Resp: 457045

Ion Ratio Lower Upper

252 100

253 22.1 18.2 27.4

125 11.8 9.0 13.6



#91

Dibenzo(a,h)anthracene

Concen: 5.496 ng

RT: 17.40 min Scan# 2604

Delta R.T. 0.16 min

Lab File: BF110421.D

Acq: 2 Nov 2018 19:34

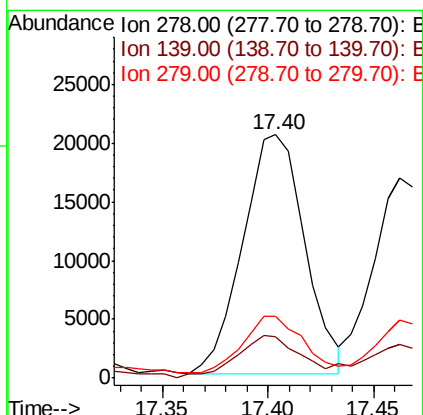
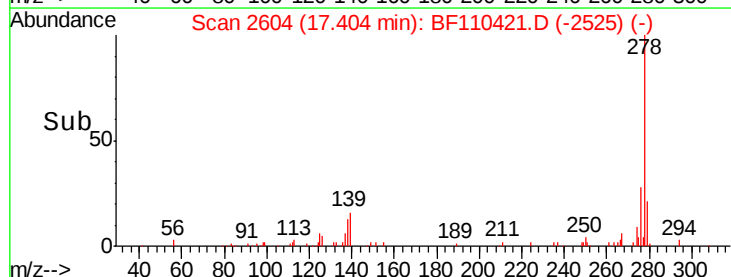
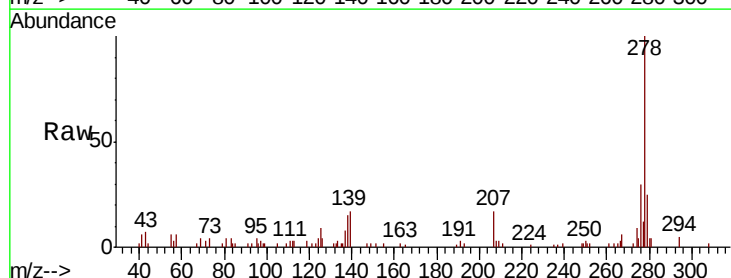
Tgt Ion:278 Resp: 41601

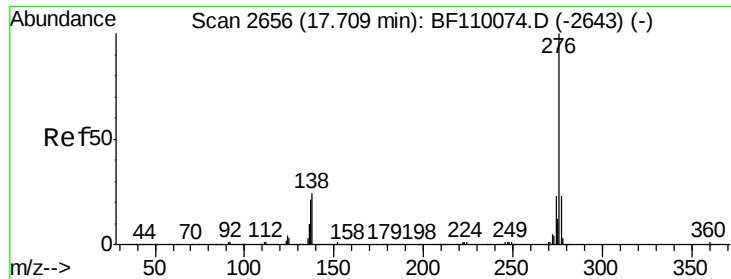
Ion Ratio Lower Upper

278 100

139 17.2 12.7 19.1

279 25.3 19.0 28.4

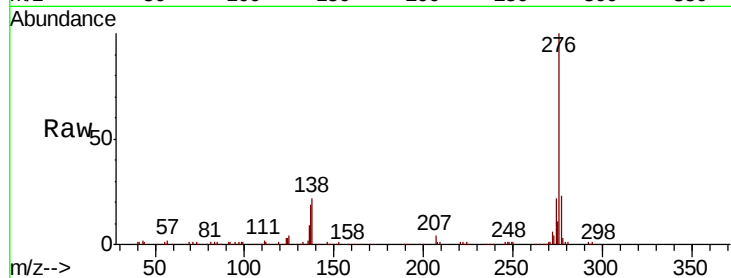




#92
 Benzo(a,h,i)perylene
 Concen: 29.509 ng
 RT: 17.70 min Scan# 2655
 Delta R.T. 0.00 min
 Lab File: BF110421.D
 Acq: 2 Nov 2018 19:34

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.8	28.2
138	22.3	16.0	24.0



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

