

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121417\
 Data File : BF101409.D
 Acq On : 14 Dec 2017 22:30
 Operator : SJ/JU
 Sample : I6843-01 100X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 14 23:48:47 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 14 15:42:32 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	179049	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	742816	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	327480	20.00	ng	0.00
63) Phenanthrene-d10	11.35	188	610669	20.00	ng	0.00
75) Chrysene-d12	13.99	240	427196	20.00	ng	-0.01
86) Perylene-d12	15.46	264	337282	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	6.54	99	829	0.06	ng	0.08
23) Nitrobenzene-d5	7.42	82	403	0.03	ng	0.04
41) 2,4,6-Tribromophenol	10.66	330	108	0.03	ng	0.01
44) 2-Fluorobiphenyl	9.17	172	1697	0.08	ng	0.00
78) Terphenyl-d14	12.93	244	2474	0.14	ng	0.00

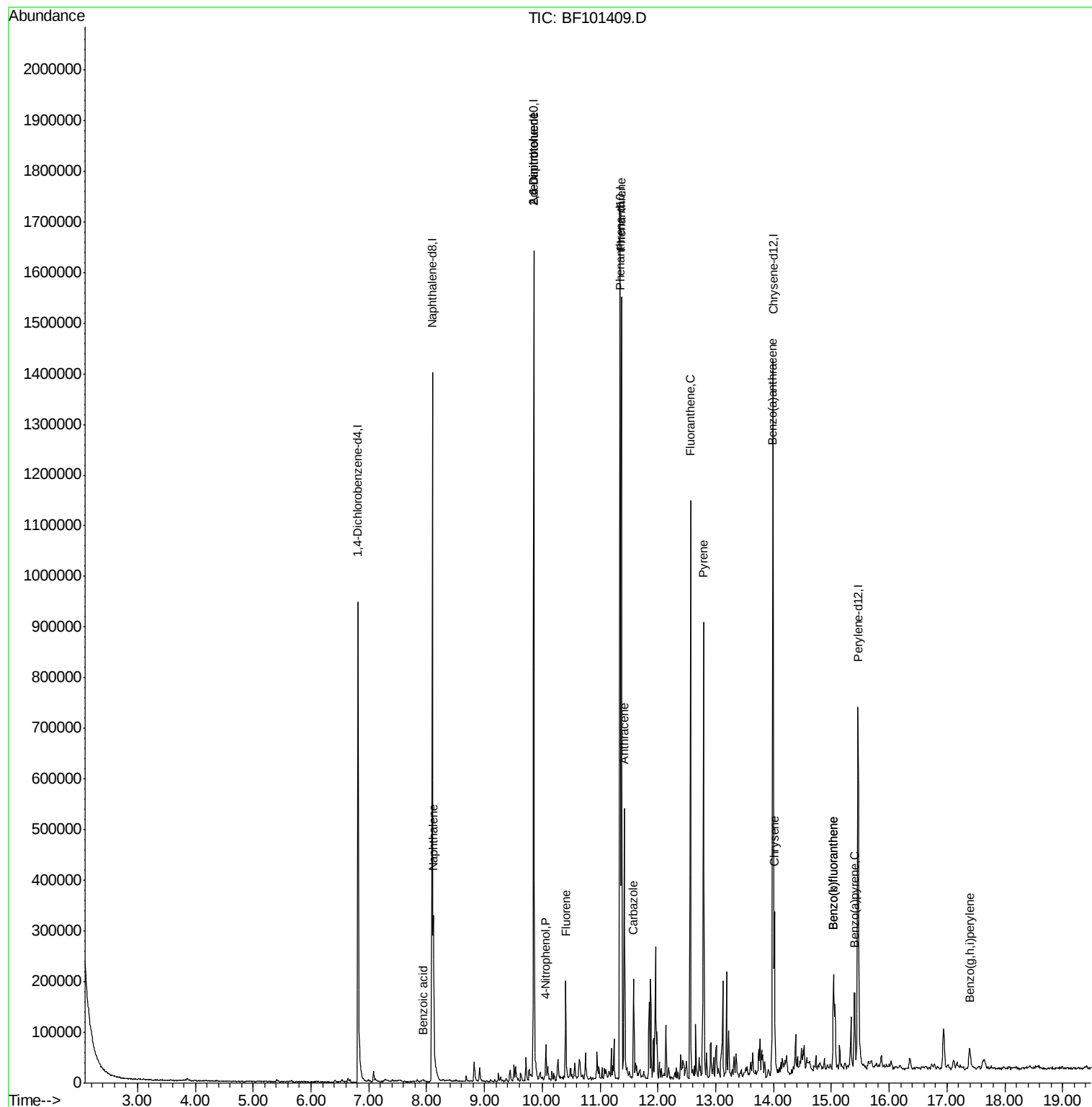
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.12	128	116221	3.108	ng	100
32) Benzoic acid	7.94	122	2056	8.197	ng	# 21
50) 2,6-Dinitrotoluene	9.85	165	43279	8.084	ng	# 26
55) 4-Nitrophenol	10.06	139	11114	3.819	ng	# 9
56) 2,4-Dinitrotoluene	9.85	165	43279	7.175	ng	# 23
57) Fluorene	10.40	166	58770	2.592	ng	96
70) Phenanthrene	11.37	178	525957	15.487	ng	99
71) Anthracene	11.42	178	220844	6.366	ng	99
72) Carbazole	11.58	167	71637	2.206	ng	97
74) Fluoranthene	12.56	202	466849	13.097	ng	96
77) Pyrene	12.79	202	347428	10.836	ng	100
80) Benzo(a)anthracene	13.98	228	152548	5.408	ng	99
82) Chrysene	14.02	228	119560	4.489	ng	98
87) Benzo(b)fluoranthene	15.04	252	146006	7.102	ng	96
88) Benzo(k)fluoranthene	15.04	252	146006	7.305	ng	98
89) Benzo(a)pyrene	15.40	252	72116	3.805	ng	99
91) Benzo(a,h,i)perylene	17.39	276	34320	2.130	ng	97

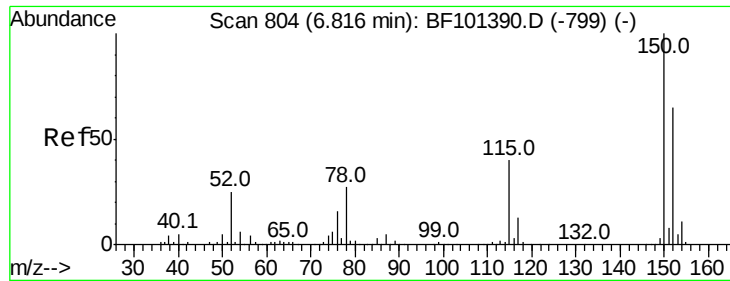
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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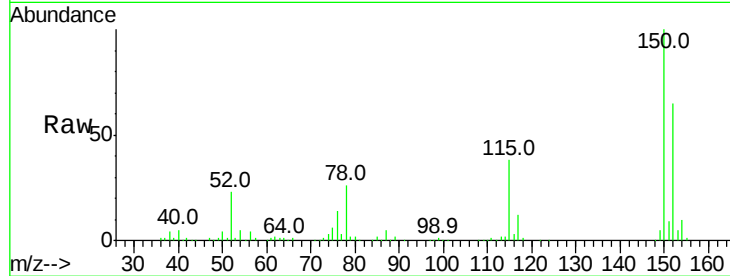


#1

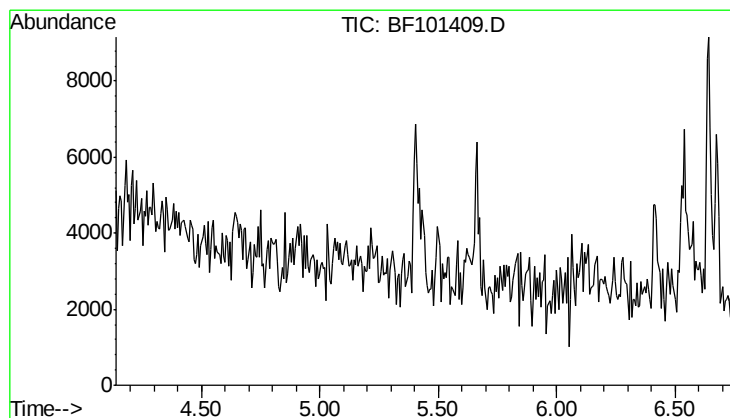
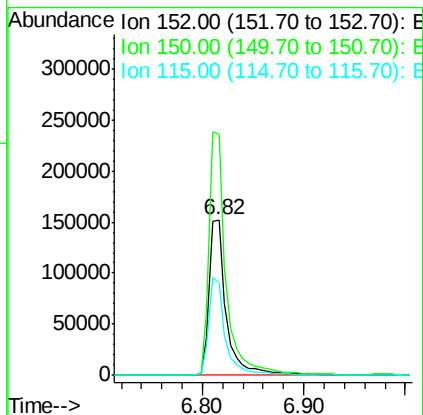
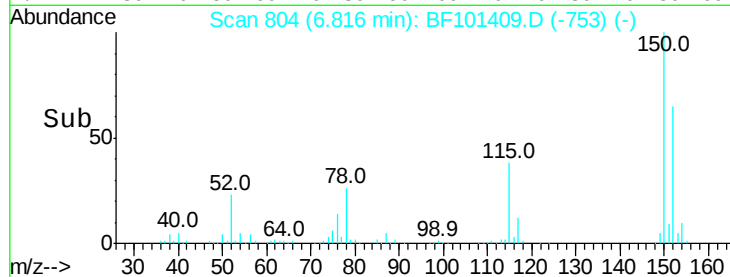
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.82 min Scan# 804
 Delta R.T. -0.00 min
 Lab File: BF101409.D
 Acq: 14 Dec 2017 22:30

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 179049
 Ion Ratio Lower Upper
 152 100
 150 155.0 124.6 186.8
 115 59.7 50.1 75.1



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

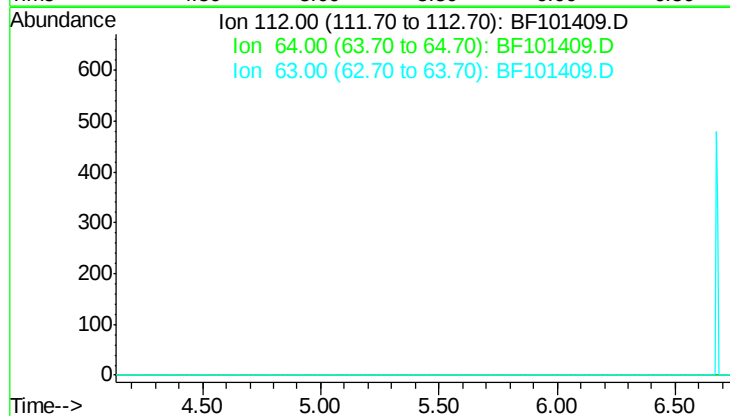


#5

2-Fluorophenol
 Concen: 0.000 ng
 Expected RT: 5.43 min

Lab File: BF101409.D
 Acq: 14 Dec 2017 22:30

Tgt Ion: 112
 Sig Exp Ratio
 112 100
 64 59.9
 63 29.6





#7

Phenol-d6

Concen: 0.055 ng

RT: 6.54 min Scan# 757

Delta R.T. 0.08 min

Lab File: BF101409.D

Acq: 14 Dec 2017 22:30

Instrument :

BNA_F

ClientSampleId :

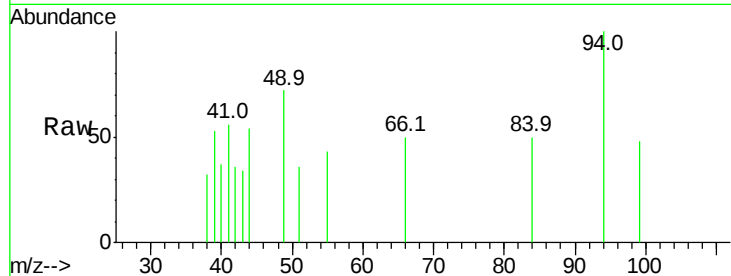
Tot Ion: 99 Resp: 829

Ion Ratio Lower Upper

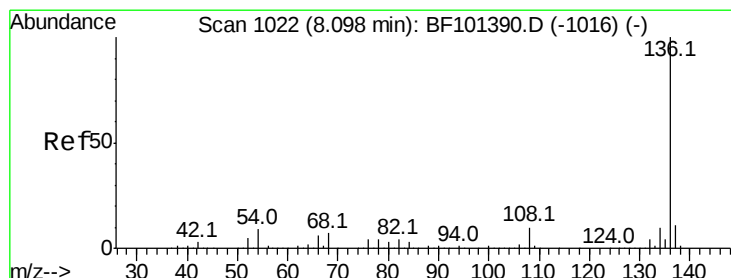
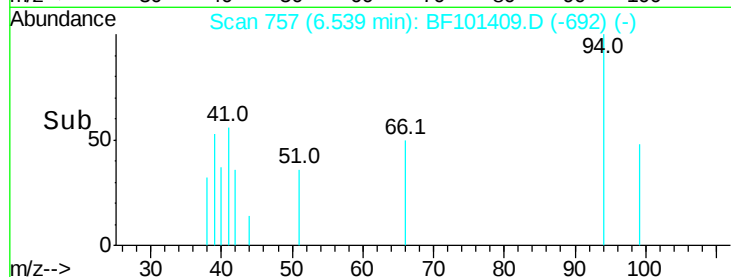
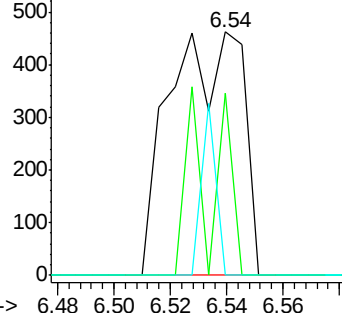
99 100

42 74.7 14.5 21.7#

71 0.0 25.4 38.0#



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: 8.10 min Scan# 1022

Delta R.T. -0.00 min

Lab File: BF101409.D

Acq: 14 Dec 2017 22:30

Tgt Ion: 136 Resp: 742816

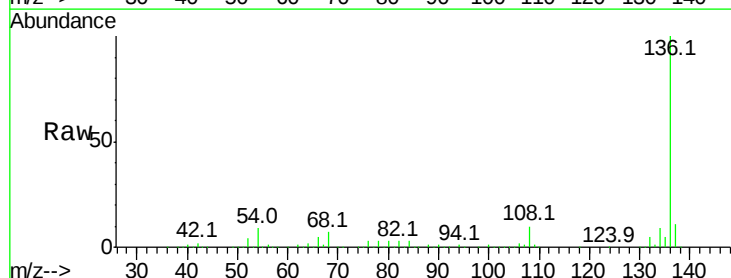
Ion Ratio Lower Upper

136 100

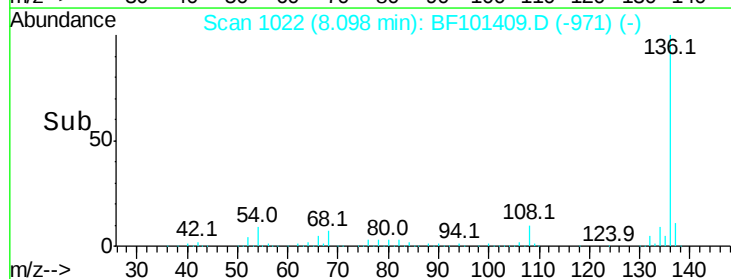
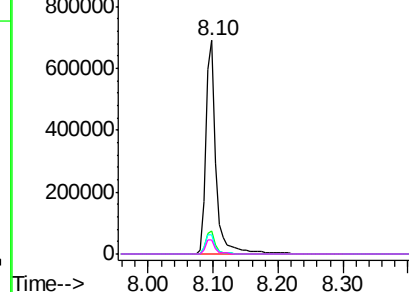
137 10.7 8.9 13.3

54 8.9 6.6 9.8

68 6.6 5.0 7.4



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

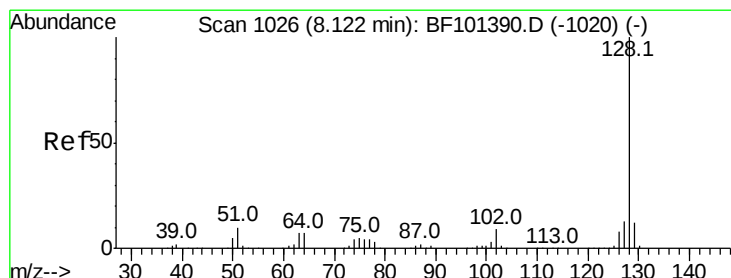
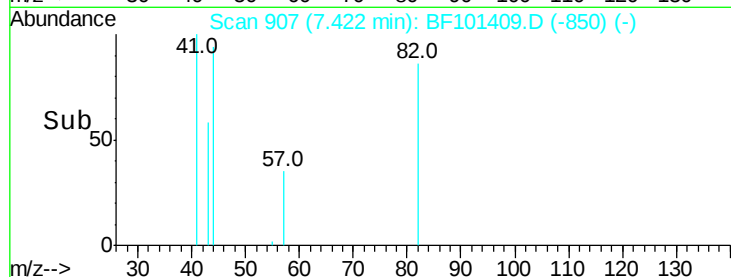
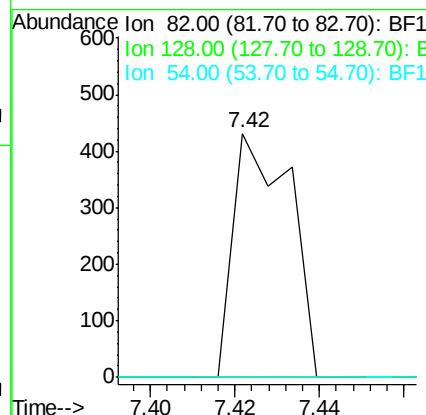
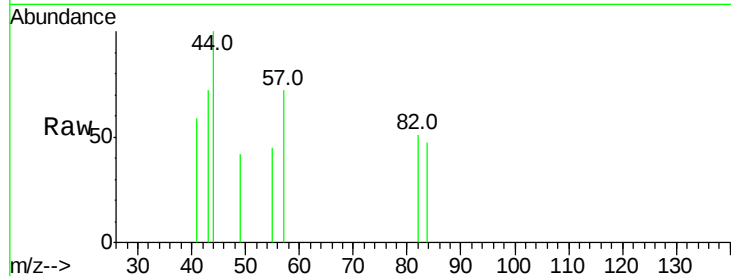




#23
 Nitrobenzene-d5
 Concen: 0.030 ng
 RT: 7.42 min Scan# 907
 Delta R.T. 0.04 min
 Lab File: BF101409.D
 Acq: 14 Dec 2017 22:30

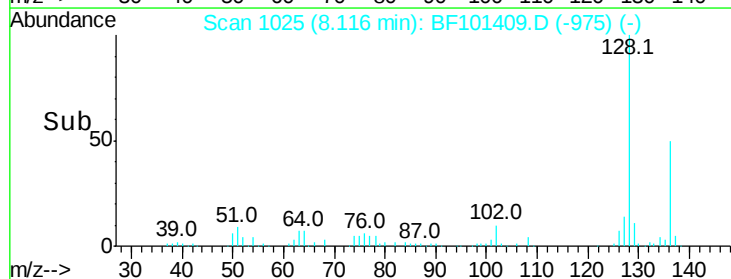
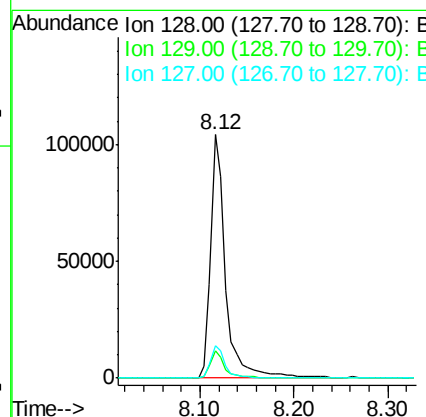
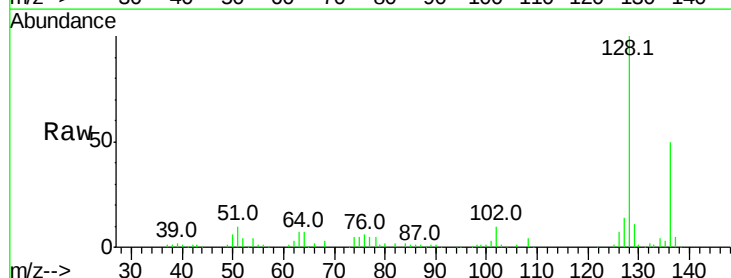
Instrument :
 BNA_F
 ClientSampleId :

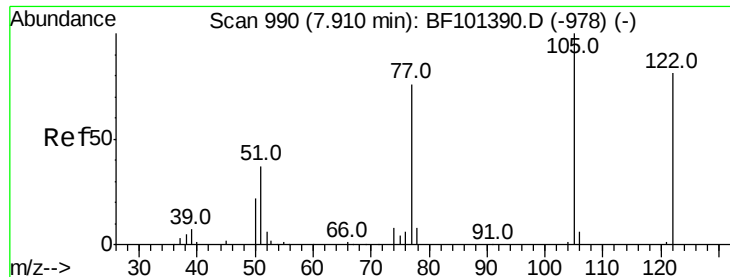
Tot Ion: 82 Resp: 403
 Ion Ratio Lower Upper
 82 100
 128 0.0 36.1 54.1#
 54 0.0 41.4 62.2#



#31
 Naphthalene
 Concen: 3.108 ng
 RT: 8.12 min Scan# 1025
 Delta R.T. -0.01 min
 Lab File: BF101409.D
 Acq: 14 Dec 2017 22:30

Tgt Ion: 128 Resp: 116221
 Ion Ratio Lower Upper
 128 100
 129 11.0 8.8 13.2
 127 13.5 10.9 16.3





#32

Benzoic acid

Concen: 8.197 ng

RT: 7.94 min Scan# 995

Delta R.T. 0.03 min

Lab File: BF101409.D

Acq: 14 Dec 2017 22:30

Instrument :

BNA_F

ClientSampleId :

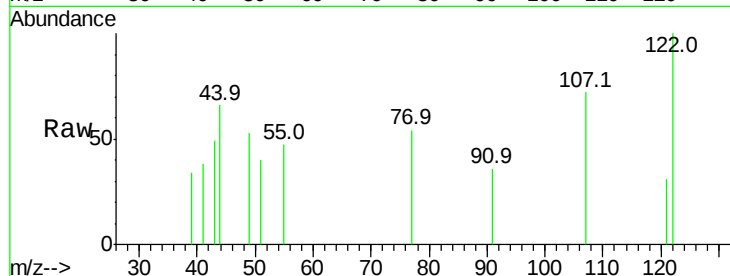
Tot Ion:122 Resp: 2056

Ion Ratio Lower Upper

122 100

105 0.0 101.1 141.1#

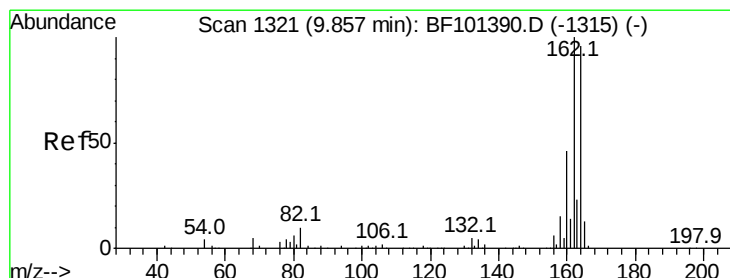
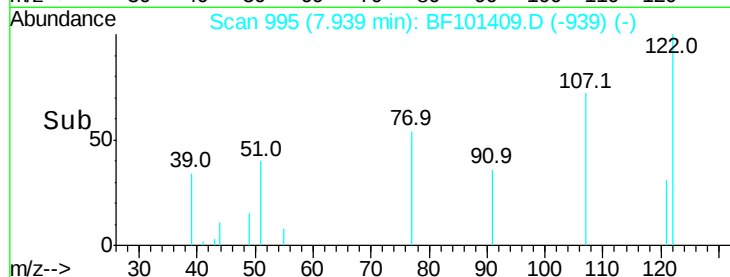
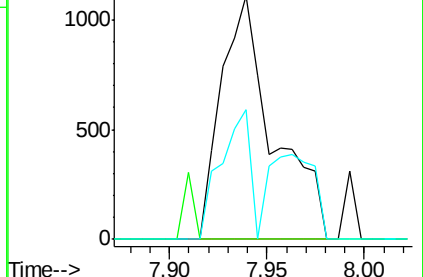
77 53.6 70.7 110.7#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.01 min

Lab File: BF101409.D

Acq: 14 Dec 2017 22:30

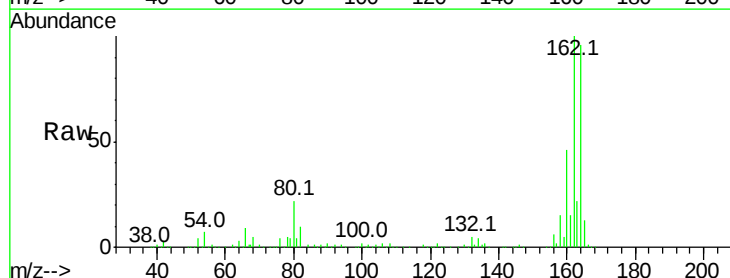
Tgt Ion:164 Resp: 327480

Ion Ratio Lower Upper

164 100

162 104.3 86.1 129.1

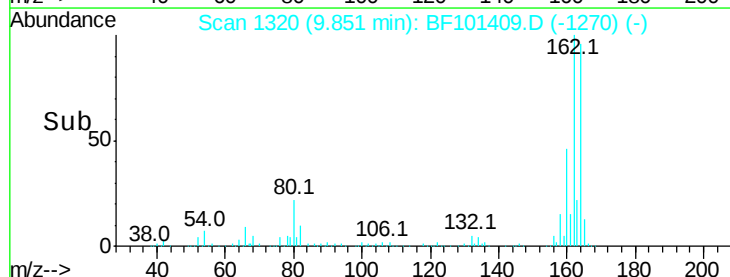
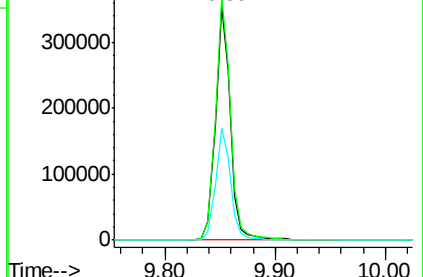
160 47.9 38.3 57.5



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

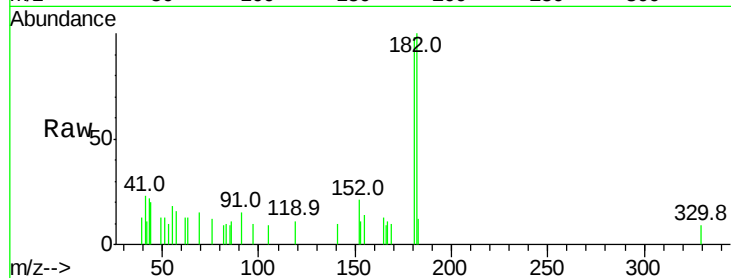




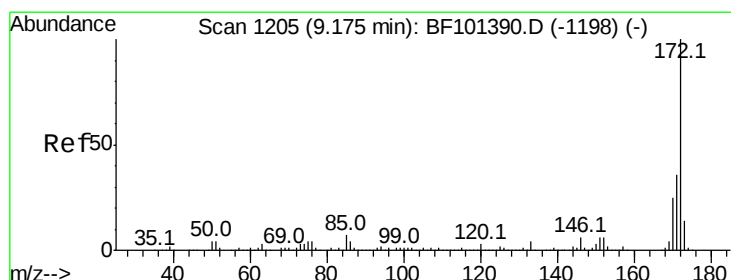
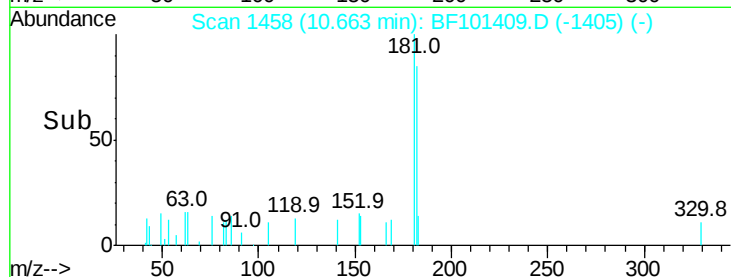
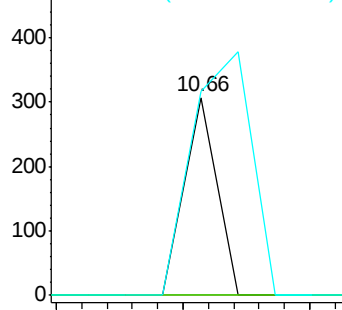
#41
 2,4,6-Tribromophenol
 Concen: 0.034 ng
 RT: 10.66 min Scan# 1458
 Delta R.T. 0.01 min
 Lab File: BF101409.D
 Acq: 14 Dec 2017 22:30

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 108
 Ion Ratio Lower Upper
 330 100
 332 0.0 77.0 115.6#
 141 226.9 29.9 44.9#

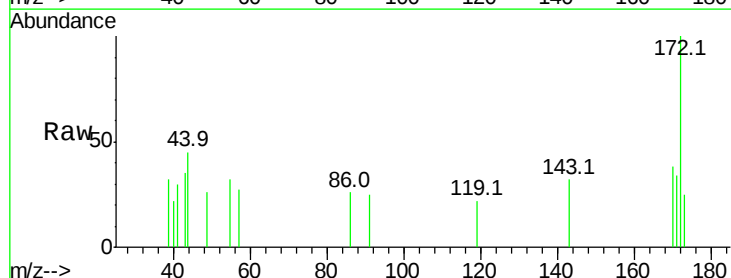


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

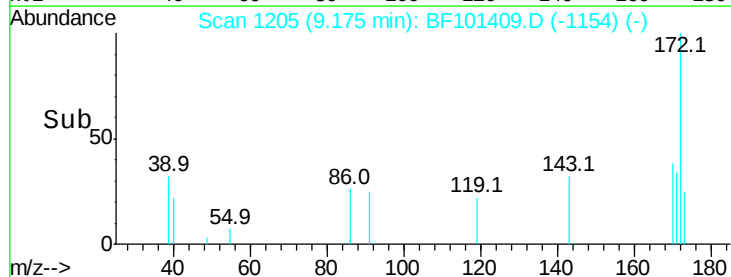
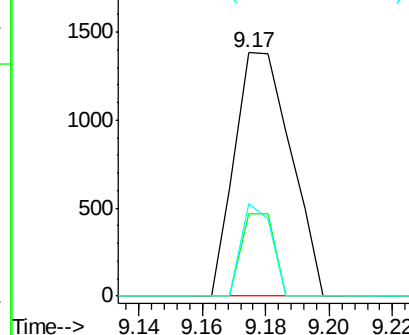


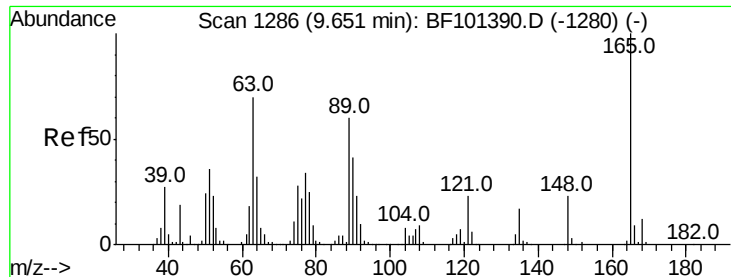
#44
 2-Fluorobiphenyl
 Concen: 0.080 ng
 RT: 9.17 min Scan# 1205
 Delta R.T. -0.00 min
 Lab File: BF101409.D
 Acq: 14 Dec 2017 22:30

Tgt Ion:172 Resp: 1697
 Ion Ratio Lower Upper
 172 100
 171 33.6 29.7 44.5
 170 37.9 19.6 29.4#



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





#50

2,6-Dinitrotoluene

Concen: 8.084 ng

RT: 9.85 min Scan# 1320

Delta R.T. 0.20 min

Lab File: BF101409.D

Acq: 14 Dec 2017 22:30

Instrument :

BNA_F

ClientSampleId :

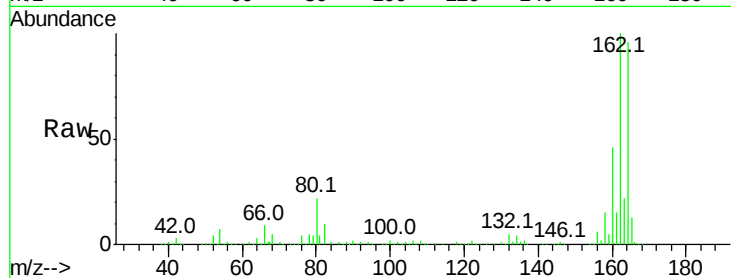
Tot Ion:165 Resp: 43279

Ion Ratio Lower Upper

165 100

63 1.0 44.7 67.1#

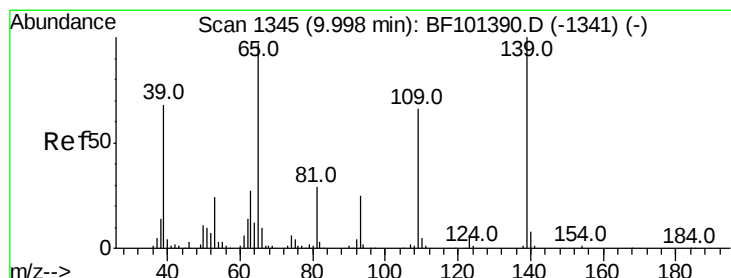
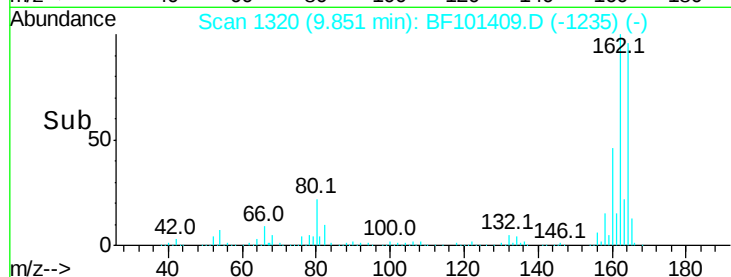
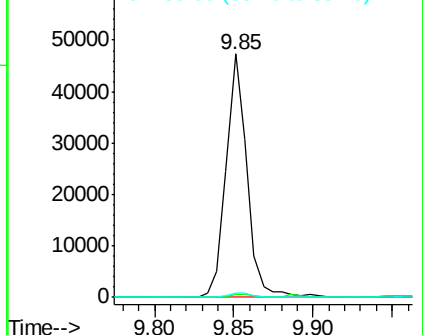
89 1.8 44.0 66.0#



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



#55

4-Nitrophenol

Concen: 3.819 ng

RT: 10.06 min Scan# 1356

Delta R.T. 0.06 min

Lab File: BF101409.D

Acq: 14 Dec 2017 22:30

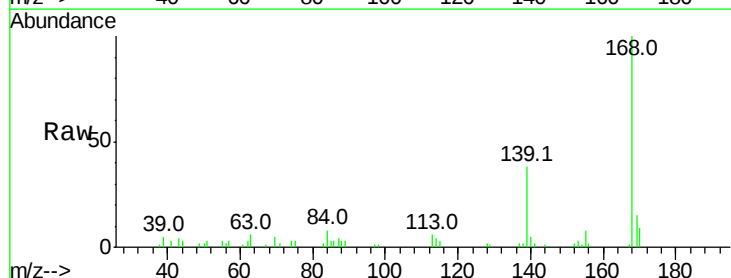
Tgt Ion:139 Resp: 11114

Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

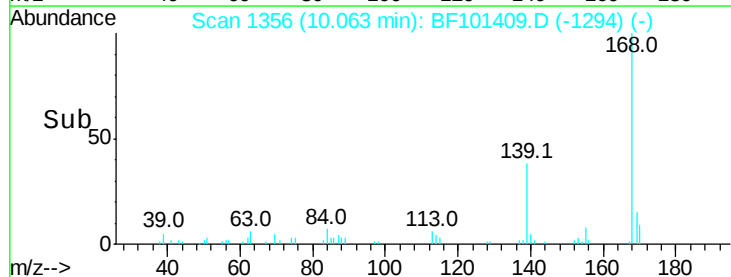
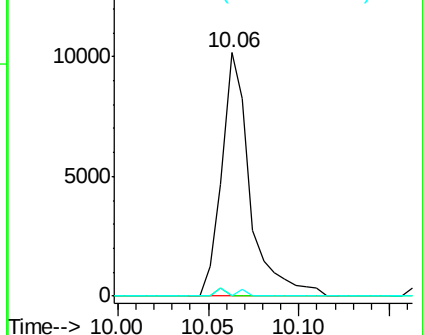
65 0.0 72.6 112.6#

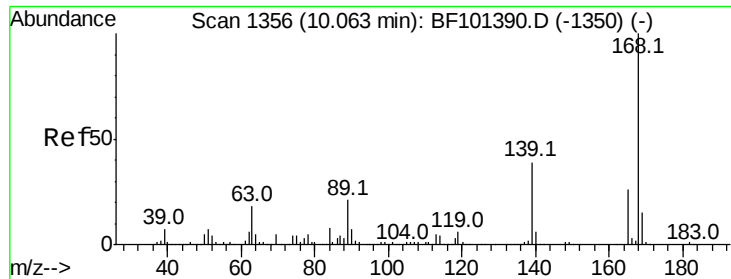


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

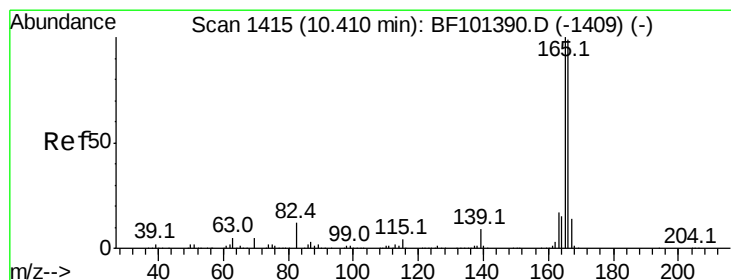
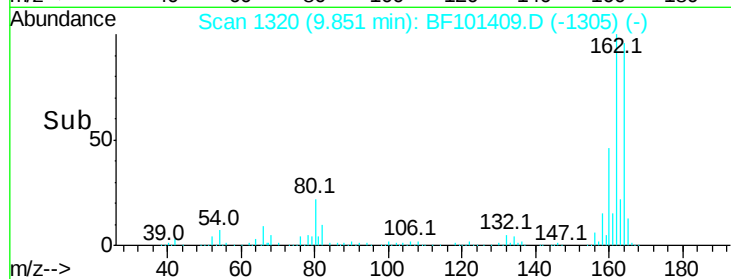
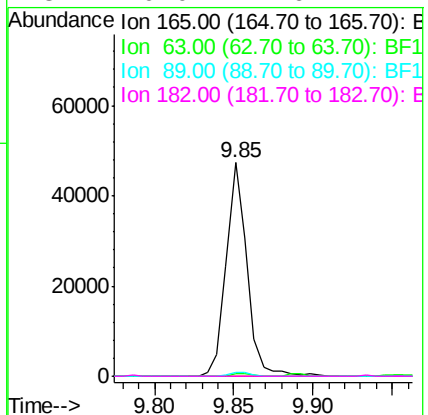
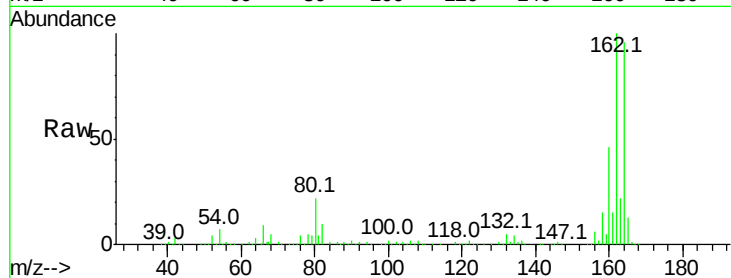




#56
2,4-Dinitrotoluene
Concen: 7.175 ng
RT: 9.85 min Scan# 1320
Delta R.T. -0.21 min
Lab File: BF101409.D
Acq: 14 Dec 2017 22:30

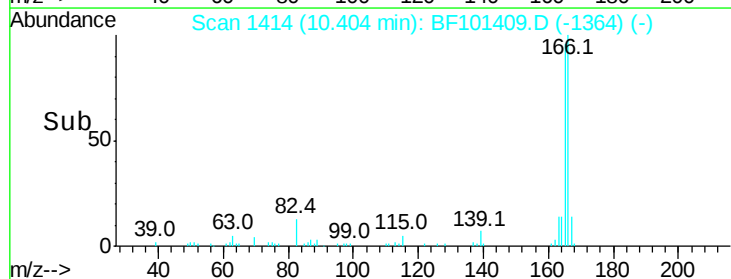
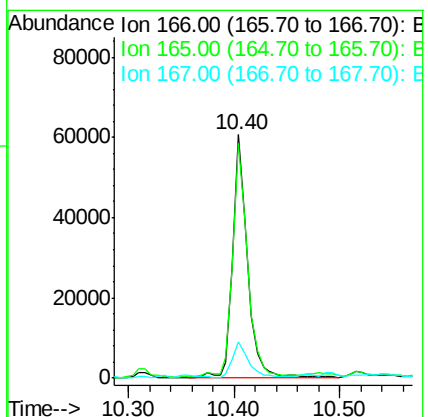
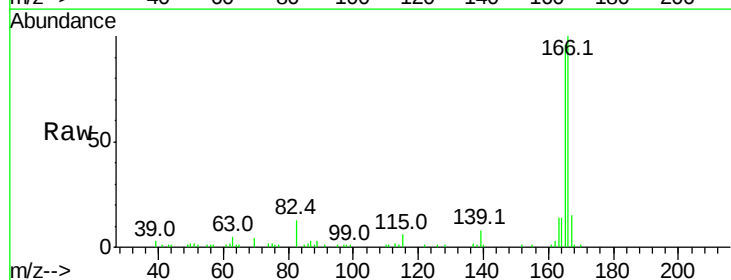
Instrument :
BNA_F
ClientSampleId :

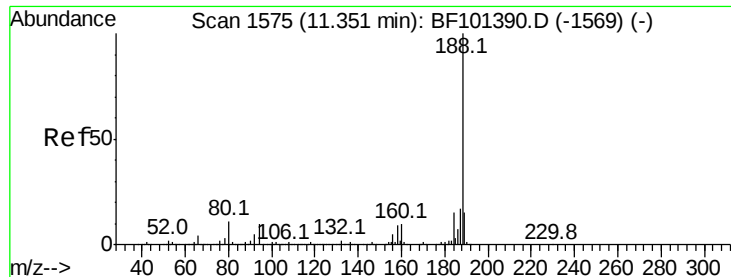
Tot Ion:165	Resp:	43279
Ion Ratio	Lower	Upper
165	100	
63	1.0	36.4 54.6#
89	1.8	57.8 86.6#
182	0.0	1.6 2.4#



#57
Fluorene
Concen: 2.592 ng
RT: 10.40 min Scan# 1414
Delta R.T. -0.01 min
Lab File: BF101409.D
Acq: 14 Dec 2017 22:30

Tgt Ion:166	Resp:	58770
Ion Ratio	Lower	Upper
166	100	
165	96.2	79.8 119.8
167	14.8	10.6 16.0

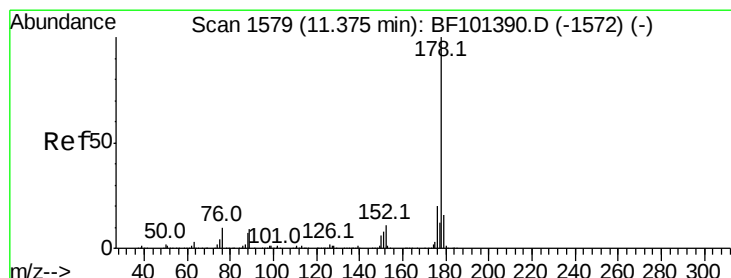
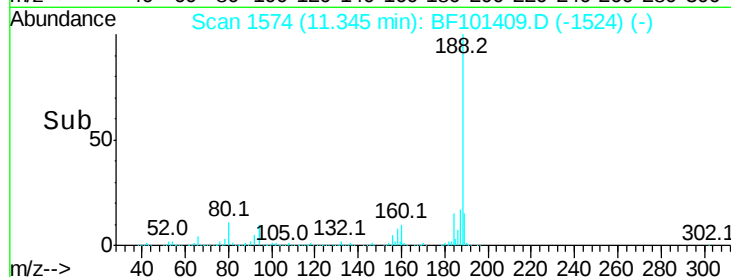
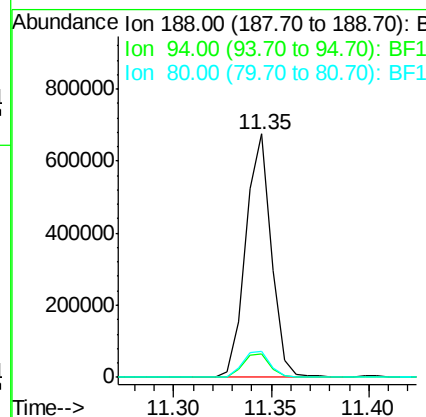
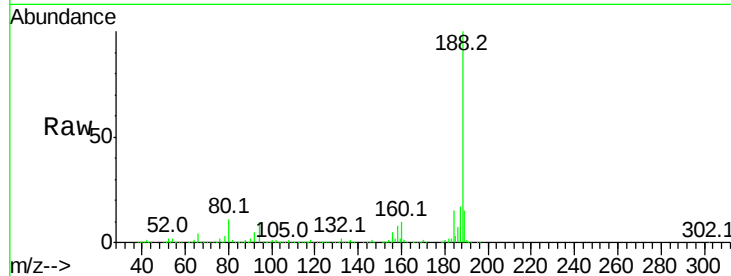




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.35 min Scan# 1574
Delta R.T. -0.01 min
Lab File: BF101409.D
Acq: 14 Dec 2017 22:30

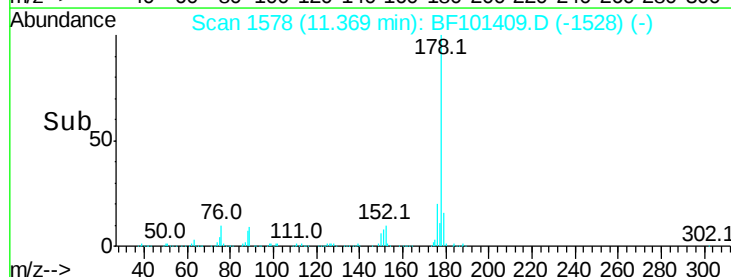
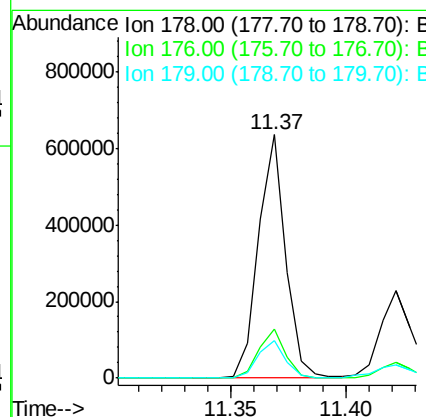
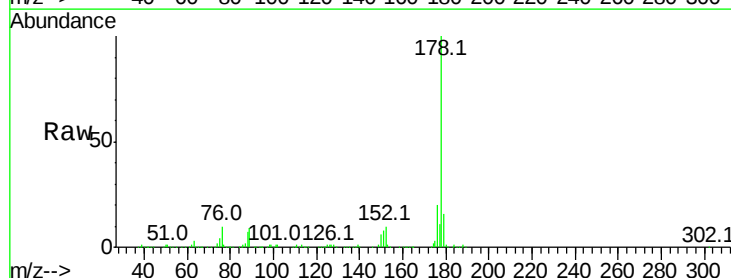
Instrument :
BNA_F
ClientSampleId :

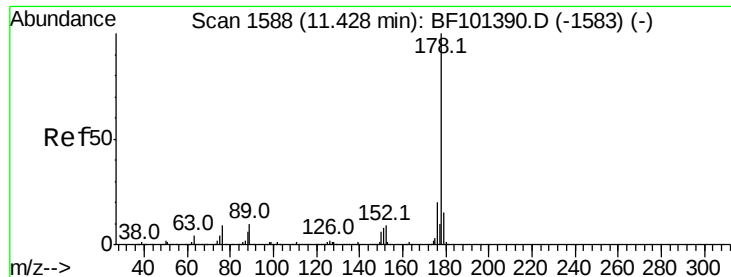
Tot Ion:188 Resp: 610669
Ion Ratio Lower Upper
188 100
94 9.6 8.5 12.7
80 10.9 9.2 13.8



#70
Phenanthrene
Concen: 15.487 ng
RT: 11.37 min Scan# 1578
Delta R.T. -0.01 min
Lab File: BF101409.D
Acq: 14 Dec 2017 22:30

Tgt Ion:178 Resp: 525957
Ion Ratio Lower Upper
178 100
176 20.4 15.8 23.8
179 15.6 13.0 19.6

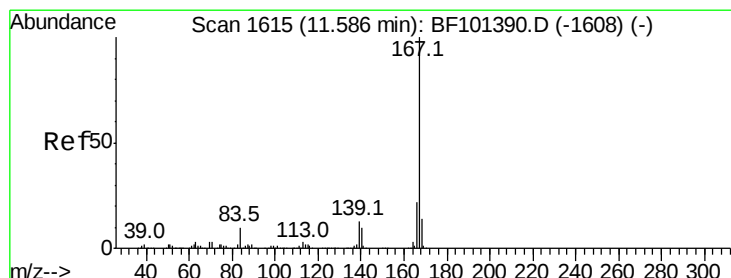
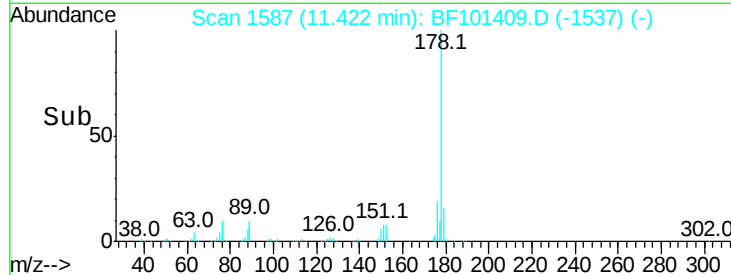
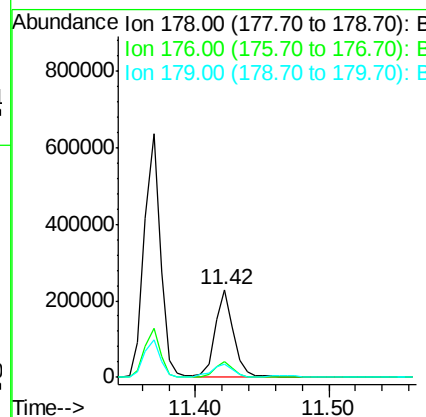
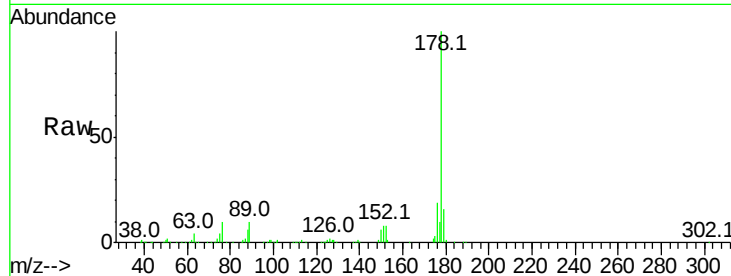




#71
 Anthracene
 Concen: 6.366 ng
 RT: 11.42 min Scan# 1587
 Delta R.T. -0.01 min
 Lab File: BF101409.D
 Acq: 14 Dec 2017 22:30

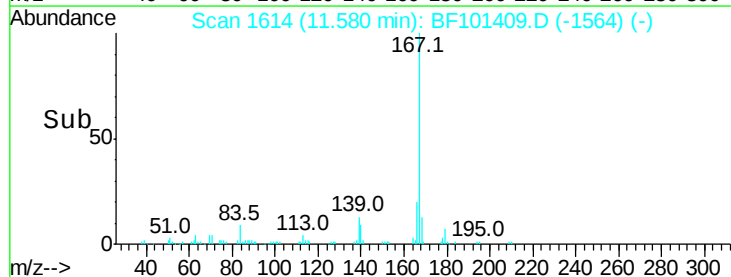
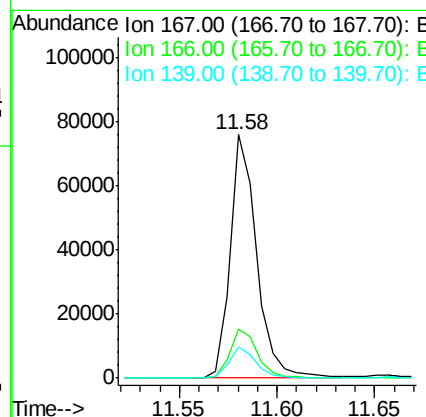
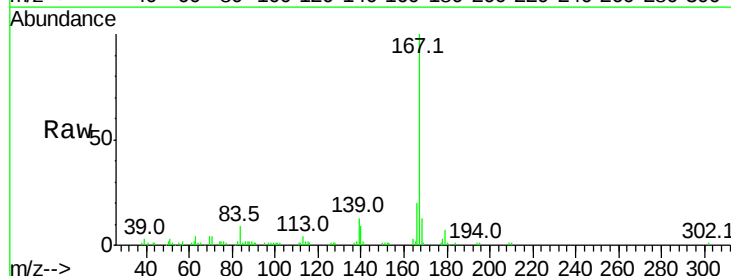
Instrument :
 BNA_F
 ClientSampleId :

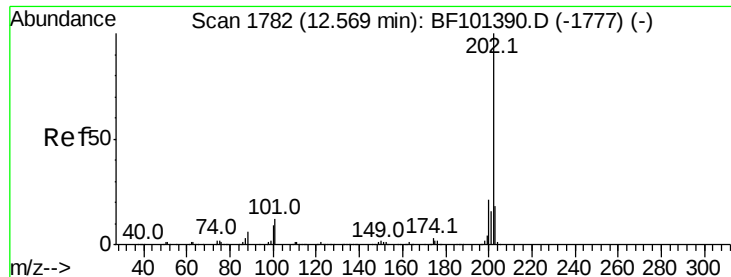
Tot Ion:178 Resp: 220844
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.4 23.2
 179 15.8 12.6 19.0



#72
 Carbazole
 Concen: 2.206 ng
 RT: 11.58 min Scan# 1614
 Delta R.T. -0.01 min
 Lab File: BF101409.D
 Acq: 14 Dec 2017 22:30

Tgt Ion:167 Resp: 71637
 Ion Ratio Lower Upper
 167 100
 166 20.3 17.6 26.4
 139 12.6 10.9 16.3





#74

Fluoranthene

Concen: 13.097 ng

RT: 12.56 min Scan# 1781

Delta R.T. -0.01 min

Lab File: BF101409.D

Acq: 14 Dec 2017 22:30

Instrument :

BNA_F

ClientSampleId :

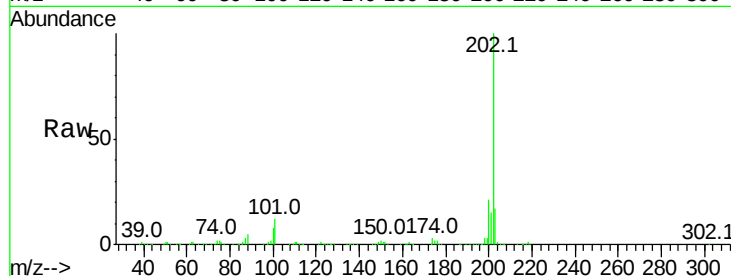
Tot Ion:202 Resp: 466849

Ion Ratio Lower Upper

202 100

101 11.9 0.0 34.1

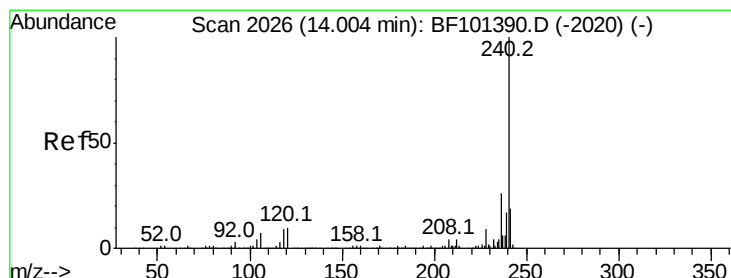
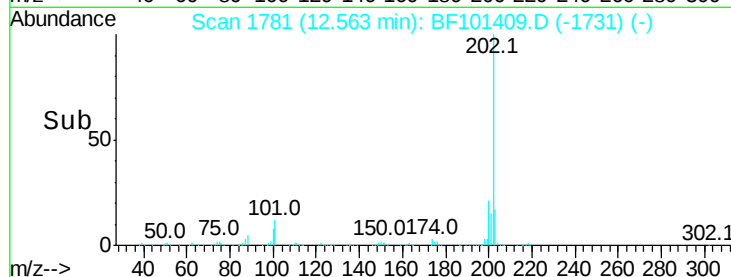
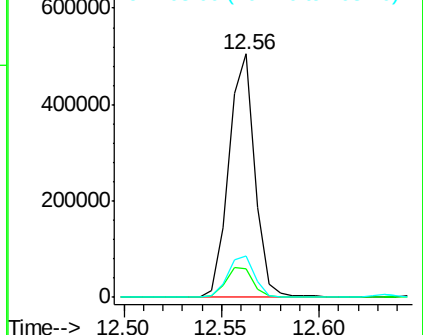
203 17.1 0.0 38.1



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



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF101409.D

Acq: 14 Dec 2017 22:30

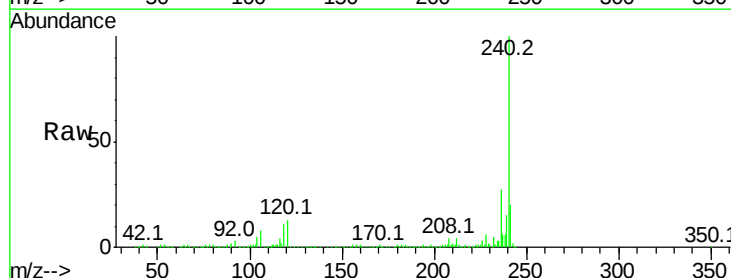
Tgt Ion:240 Resp: 427196

Ion Ratio Lower Upper

240 100

120 12.8 9.5 14.3

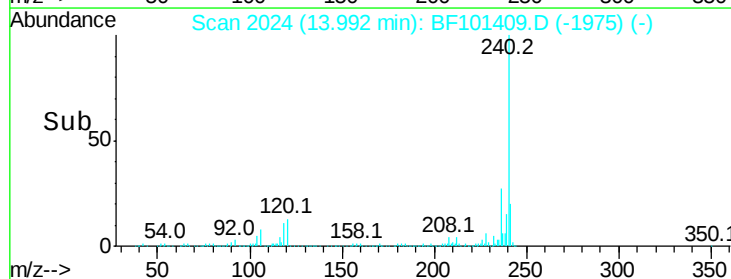
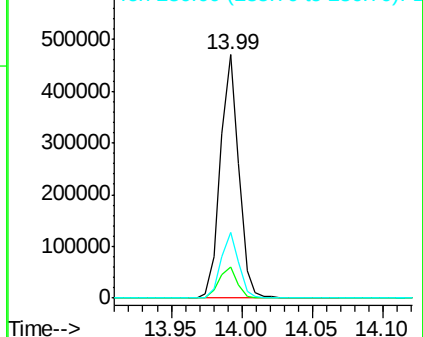
236 27.0 20.7 31.1

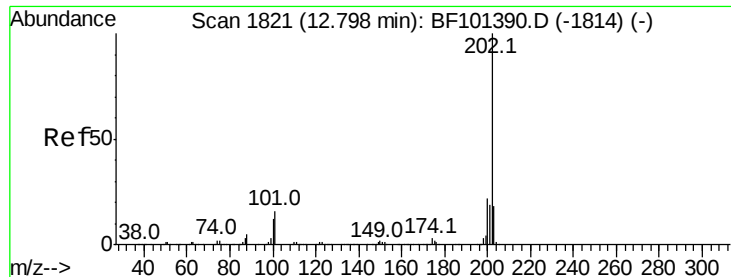


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 10.836 ng

RT: 12.79 min Scan# 1820

Delta R.T. -0.01 min

Lab File: BF101409.D

Acq: 14 Dec 2017 22:30

Instrument :

BNA_F

ClientSampleId :

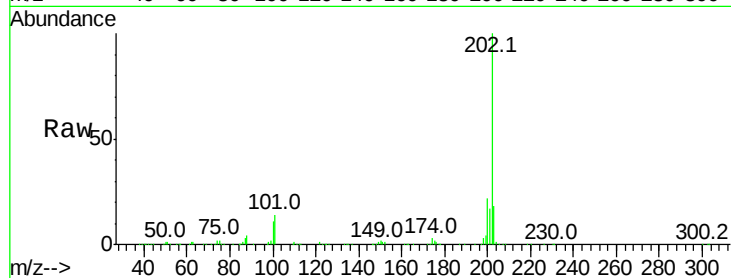
Tot Ion:202 Resp: 347428

Ion Ratio Lower Upper

202 100

200 21.6 17.4 26.2

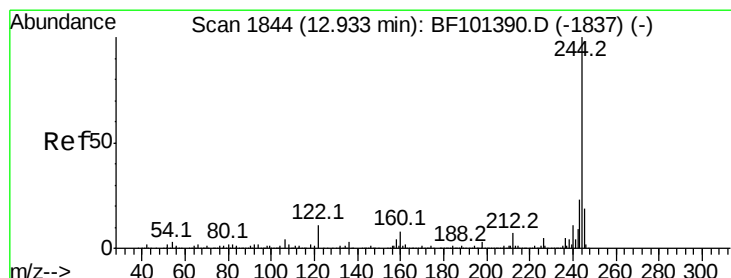
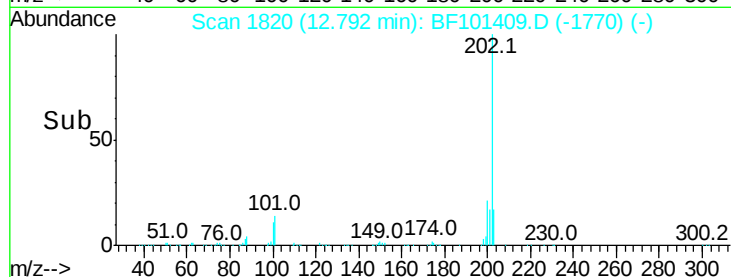
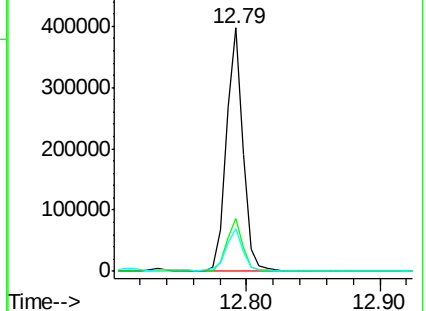
203 17.8 14.3 21.5



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



#78

Terphenyl-d14

Concen: 0.140 ng

RT: 12.93 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BF101409.D

Acq: 14 Dec 2017 22:30

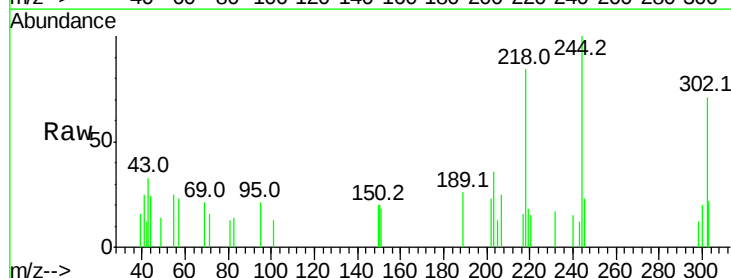
Tgt Ion:244 Resp: 2474

Ion Ratio Lower Upper

244 100

212 0.0 5.4 8.0#

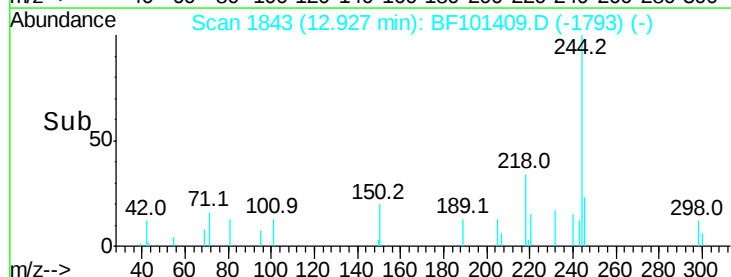
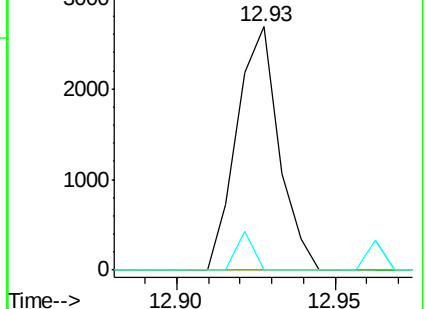
122 0.0 11.0 16.4#

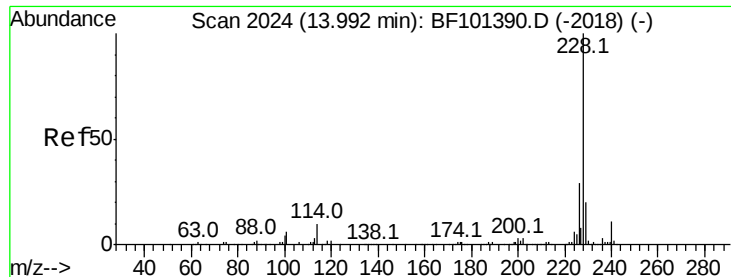


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 5.408 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF101409.D

Acq: 14 Dec 2017 22:30

Instrument :

BNA_F

ClientSampleId :

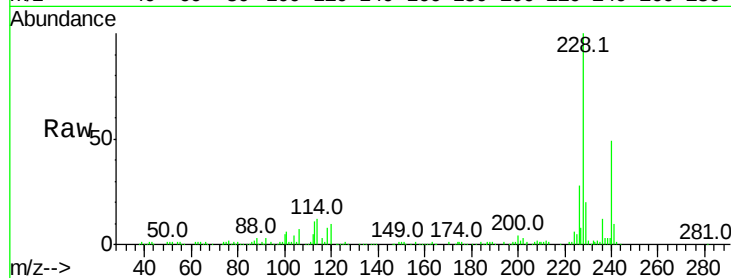
Tot Ion:228 Resp: 152548

Ion Ratio Lower Upper

228 100

226 27.7 22.6 33.8

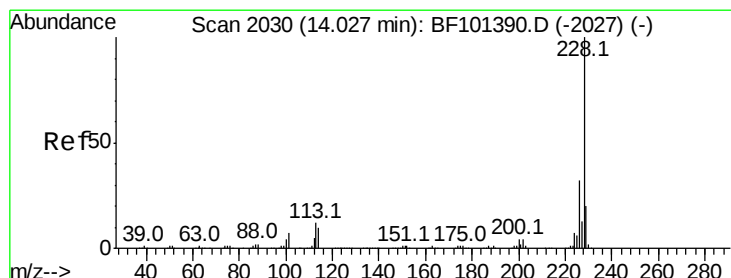
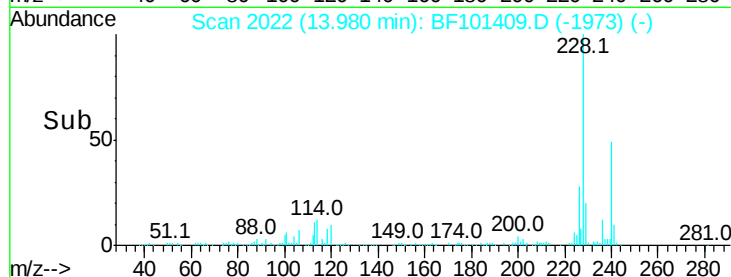
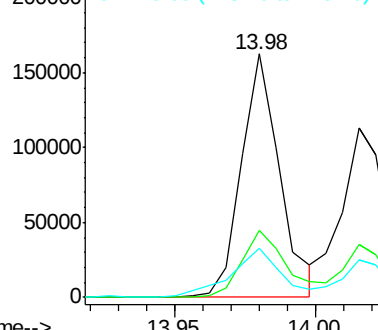
229 20.2 15.8 23.6



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



#82

Chrysene

Concen: 4.489 ng

RT: 14.02 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BF101409.D

Acq: 14 Dec 2017 22:30

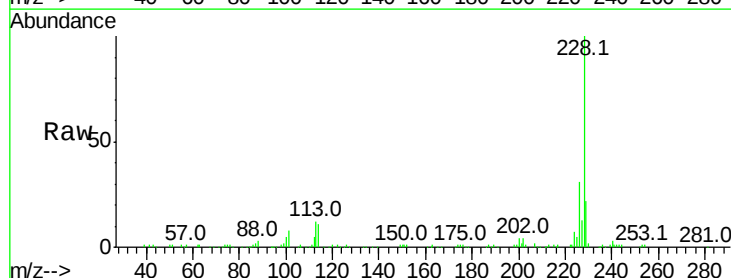
Tgt Ion:228 Resp: 119560

Ion Ratio Lower Upper

228 100

226 30.9 25.0 37.6

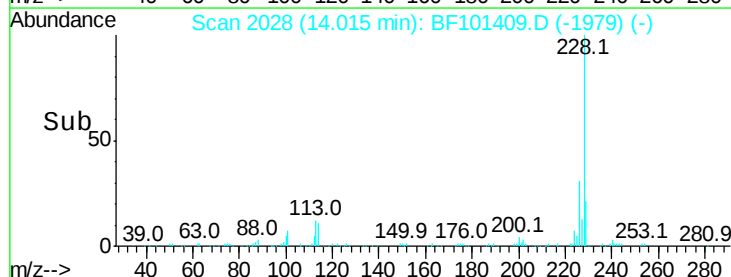
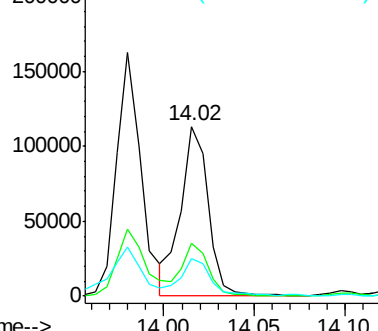
229 21.9 16.2 24.4

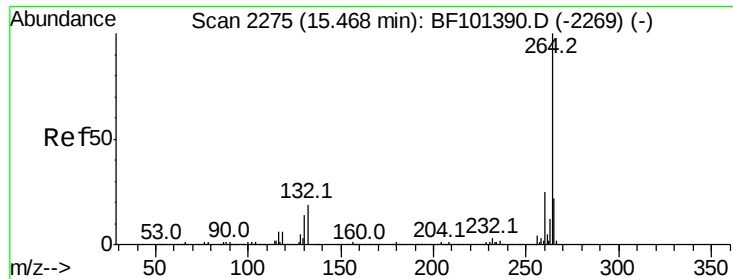


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

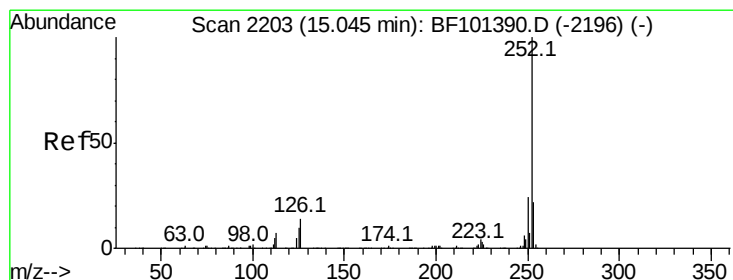
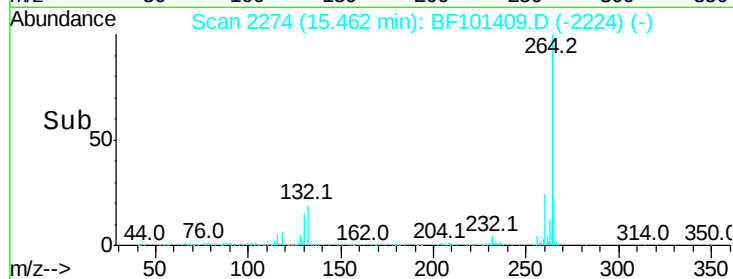
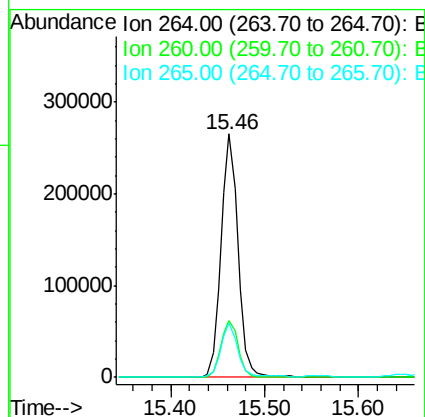
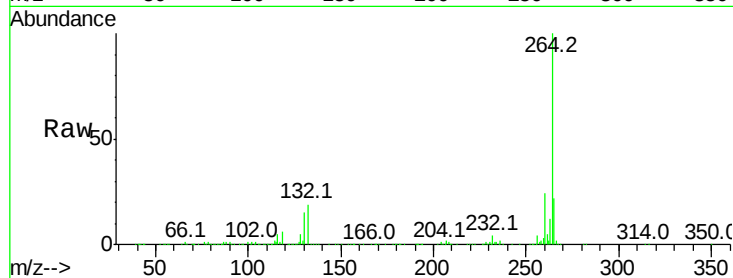




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2274
Delta R.T. -0.01 min
Lab File: BF101409.D
Acq: 14 Dec 2017 22:30

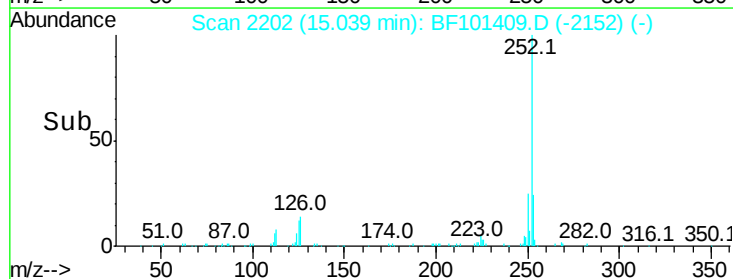
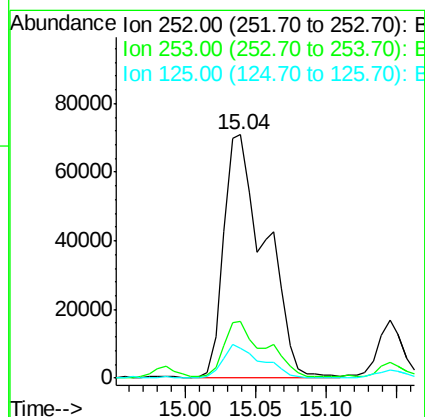
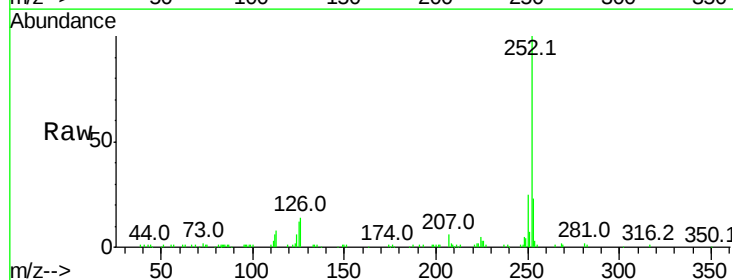
Instrument :
BNA_F
ClientSampleId :

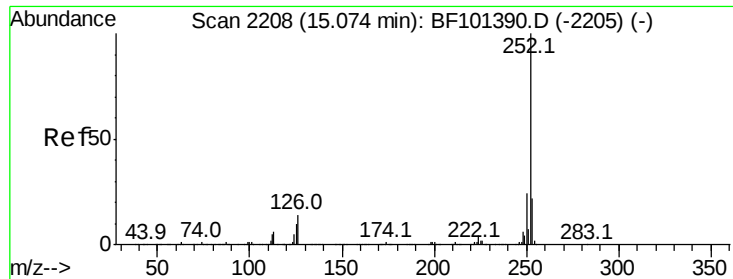
Tot Ion:264 Resp: 337282
Ion Ratio Lower Upper
264 100
260 23.6 19.2 28.8
265 22.2 17.5 26.3



#87
Benzo(b)fluoranthene
Concen: 7.102 ng
RT: 15.04 min Scan# 2202
Delta R.T. -0.01 min
Lab File: BF101409.D
Acq: 14 Dec 2017 22:30

Tgt Ion:252 Resp: 146006
Ion Ratio Lower Upper
252 100
253 23.4 17.0 25.6
125 12.2 9.0 13.6

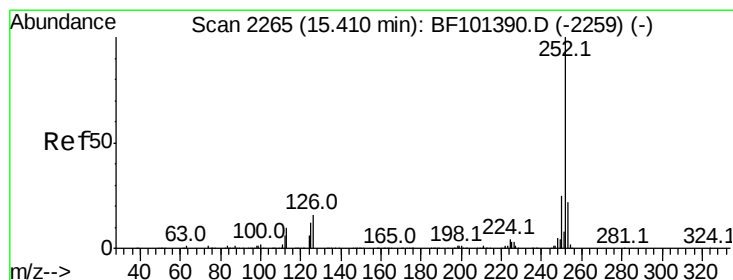
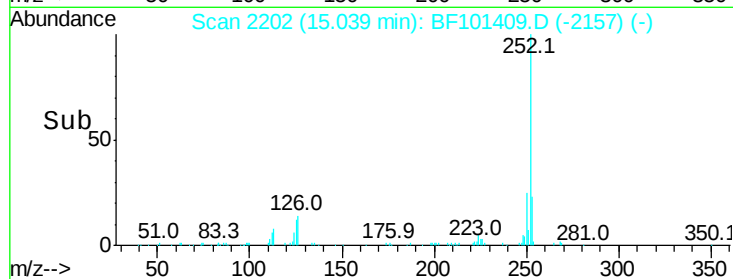
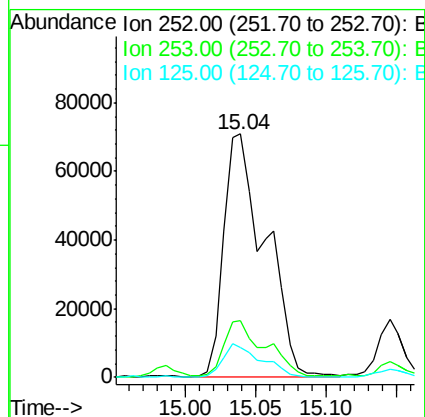
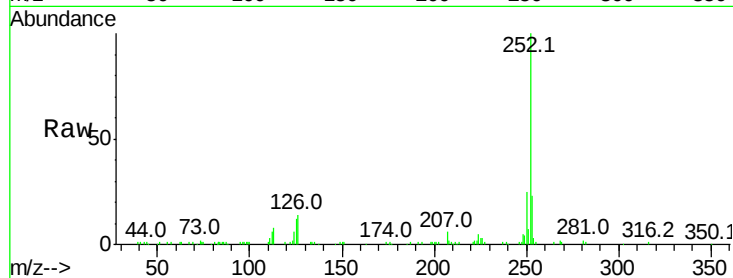




#88
Benzo(k)fluoranthene
Concen: 7.305 ng
RT: 15.04 min Scan# 2202
Delta R.T. -0.04 min
Lab File: BF101409.D
Acq: 14 Dec 2017 22:30

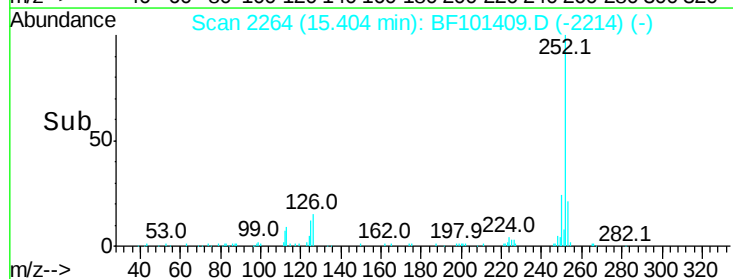
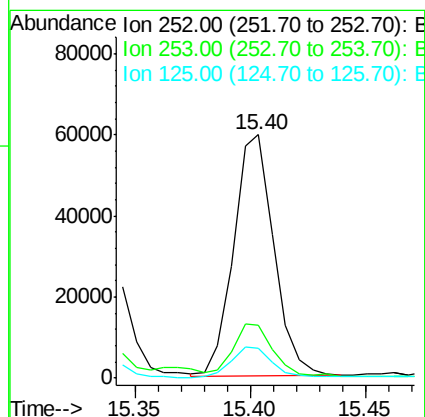
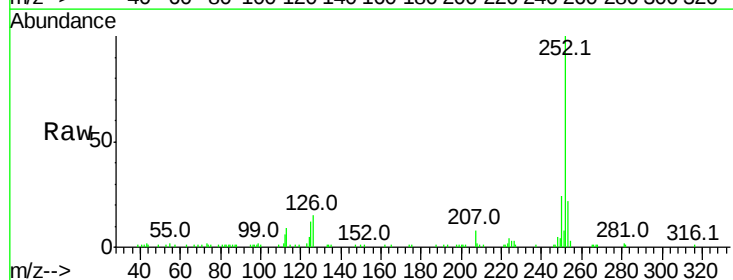
Instrument :
BNA_F
ClientSampled :

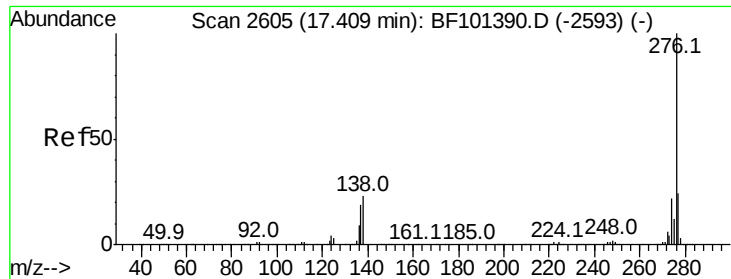
Tot Ion:252 Resp: 146006
Ion Ratio Lower Upper
252 100
253 23.4 17.9 26.9
125 12.2 10.2 15.2



#89
Benzo(a)pyrene
Concen: 3.805 ng
RT: 15.40 min Scan# 2264
Delta R.T. -0.01 min
Lab File: BF101409.D
Acq: 14 Dec 2017 22:30

Tgt Ion:252 Resp: 72116
Ion Ratio Lower Upper
252 100
253 21.8 17.1 25.7
125 12.1 9.8 14.6





#91

Benzo(a,h,i)perylene

Concen: 2.130 ng

RT: 17.39 min Scan# 2602

Delta R.T. -0.02 min

Lab File: BF101409.D

Acq: 14 Dec 2017 22:30

Instrument :

BNA_F

ClientSampleId :

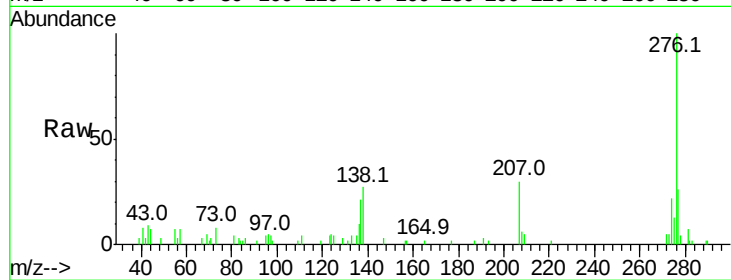
Tot Ion:276 Resp: 34320

Ion Ratio Lower Upper

276 100

277 26.1 17.9 26.9

138 27.3 21.8 32.8



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

