

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121417\
 Data File : BF101428.D
 Acq On : 15 Dec 2017 7:25
 Operator : SJ/JU
 Sample : I6828-04
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 15 10:15:54 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	176640	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	674929	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	275398	20.00	ng	0.00
63) Phenanthrene-d10	11.35	188	423567	20.00	ng	0.00
75) Chrysene-d12	14.01	240	244146	20.00	ng	0.00
86) Perylene-d12	15.50	264	236626	20.00	ng	0.03

System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	1197842	101.01	ng	0.00
7) Phenol-d6	6.46	99	1446795	98.03	ng	0.00
23) Nitrobenzene-d5	7.39	82	904463	74.60	ng	0.00
41) 2,4,6-Tribromophenol	10.65	330	255672	96.35	ng	0.00
44) 2-Fluorobiphenyl	9.17	172	1238249	69.75	ng	0.00
78) Terphenyl-d14	12.93	244	780273	77.05	ng	0.00

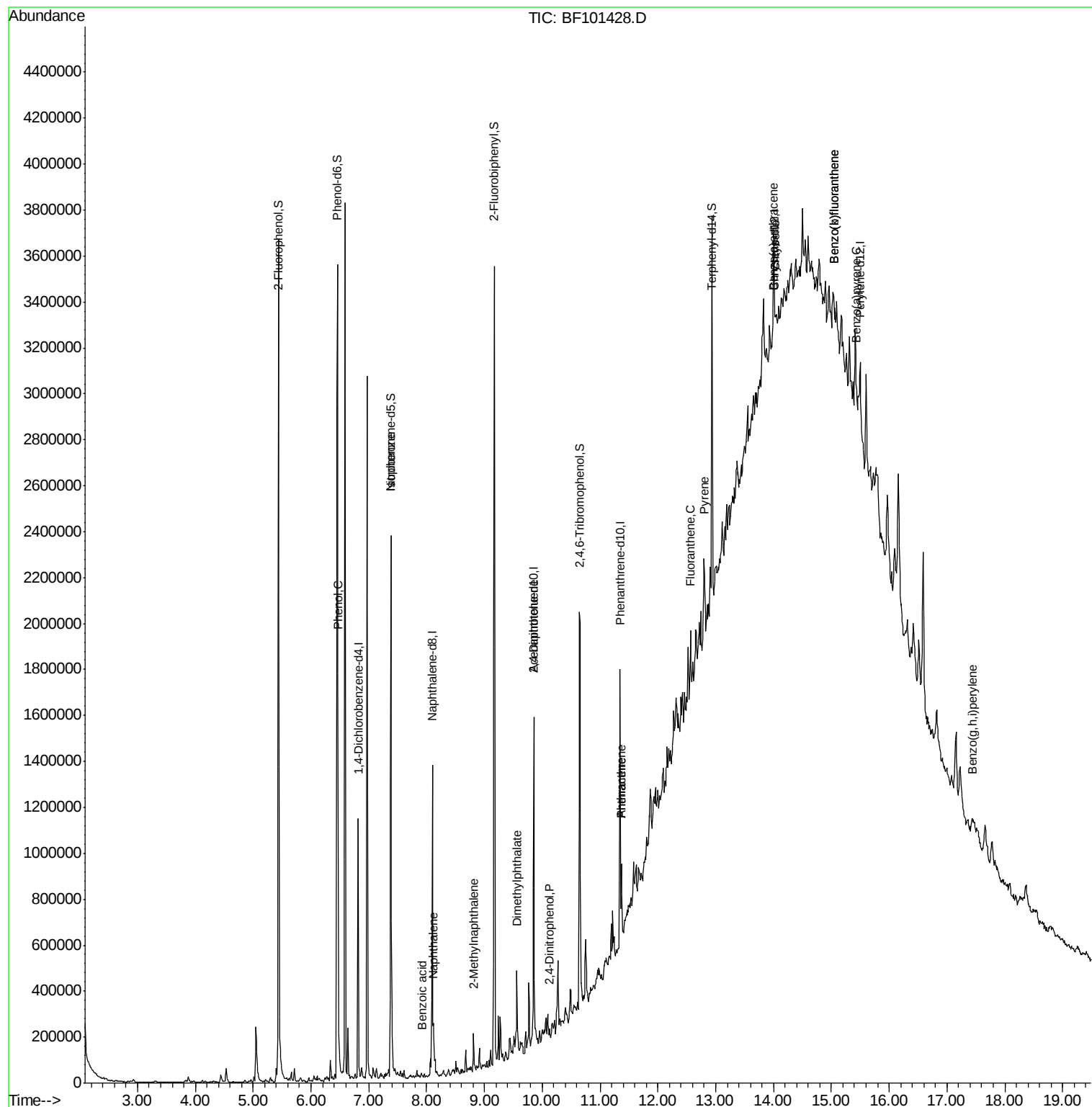
Target Compounds				Qvalue		
10) Phenol	6.47	94	73246	4.354	ng	96
25) Isophorone	7.39	82	902746	37.115	ng	# 64
31) Naphthalene	8.12	128	73802	2.172	ng	98
32) Benzoic acid	7.92	122	2357	8.259	ng	# 76
37) 2-Methylnaphthalene	8.81	142	52276	2.361	ng	99
49) Dimethylphthalate	9.57	163	120770	5.452	ng	98
53) 2,4-Dinitrophenol	10.13	184	425	10.556	ng	# 7
56) 2,4-Dinitrotoluene	9.85	165	37267	7.347	ng	# 24
70) Phenanthrene	11.37	178	116855	4.961	ng	100
71) Anthracene	11.37	178	116855	4.857	ng	99
74) Fluoranthene	12.57	202	123660	5.002	ng	94
77) Pylene	12.80	202	147907	8.072	ng	97
80) Benzo(a)anthracene	14.00	228	47082	2.920	ng	# 71
82) Chrysene	14.03	228	60956	4.005	ng	# 78
87) Benzo(b)fluoranthene	15.06	252	76064	5.274	ng	# 20
88) Benzo(k)fluoranthene	15.06	252	76064	5.424	ng	# 23
89) Benzo(a)pyrene	15.44	252	36493	2.745	ng	# 11
91) Benzo(g,h,i)perylene	17.44	276	29423	2.603	ng	# 82

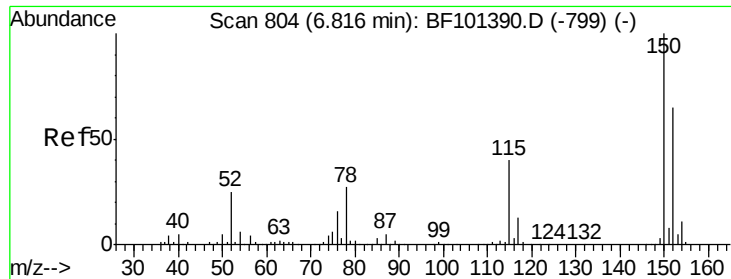
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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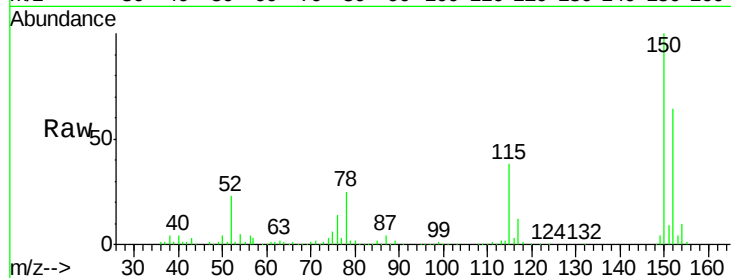


#1

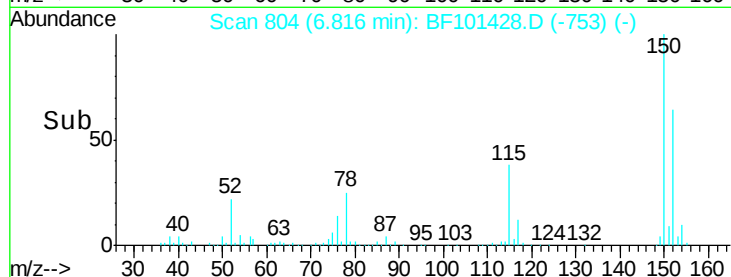
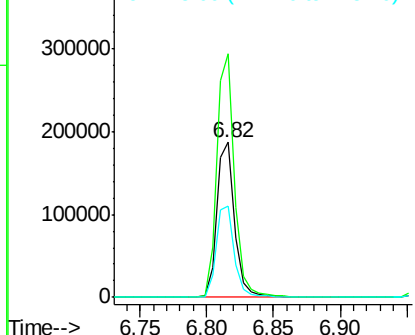
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 804
Delta R.T. -0.00 min
Lab File: BF101428.D
Acq: 15 Dec 2017 7:25

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 176640
Ion Ratio Lower Upper
152 100
150 157.4 124.6 186.8
115 59.1 50.1 75.1



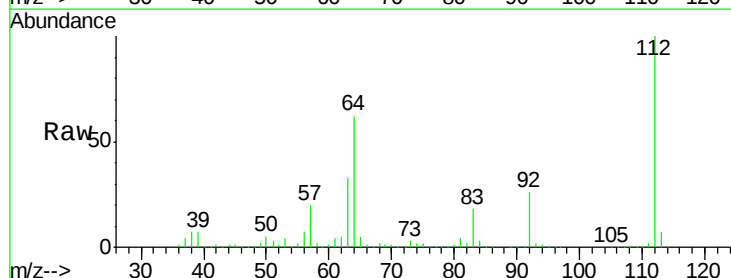
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



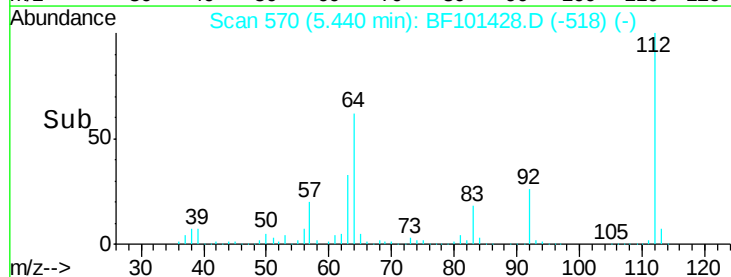
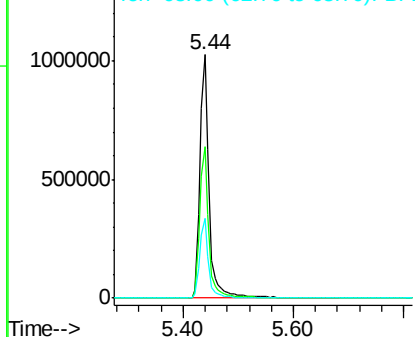
#5

2-Fluorophenol
Concen: 101.012 ng
RT: 5.44 min Scan# 570
Delta R.T. 0.01 min
Lab File: BF101428.D
Acq: 15 Dec 2017 7:25

Tgt Ion:112 Resp: 1197842
Ion Ratio Lower Upper
112 100
64 62.1 47.9 71.9
63 32.7 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: 98.033 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.00 min

Lab File: BF101428.D

Acq: 15 Dec 2017 7:25

Instrument :

BNA_F

ClientSampleId :

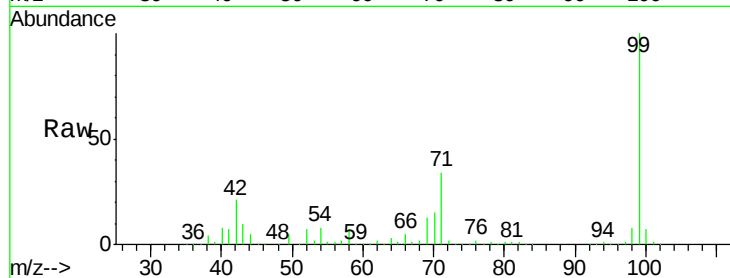
Tot Ion: 99 Resp: 1446795

Ion Ratio Lower Upper

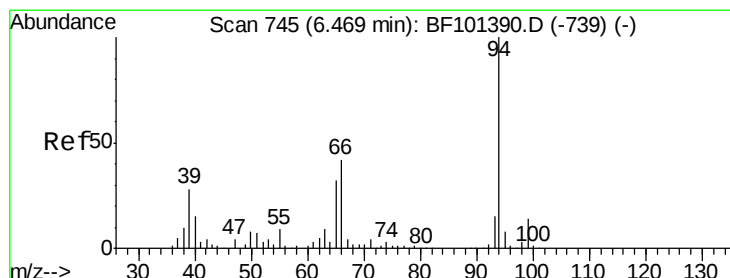
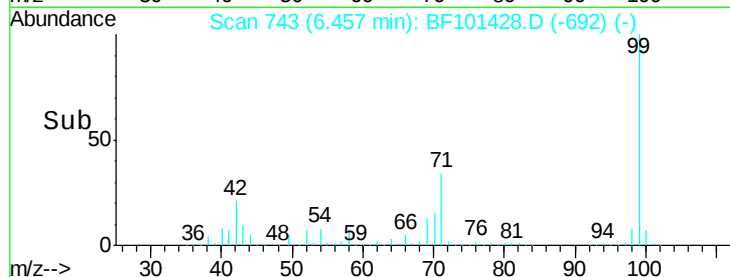
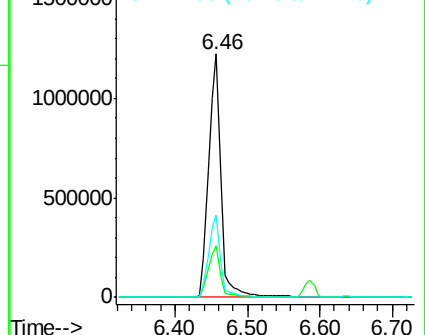
99 100

42 21.1 14.5 21.7

71 33.6 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



#10

Phenol

Concen: 4.354 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.00 min

Lab File: BF101428.D

Acq: 15 Dec 2017 7:25

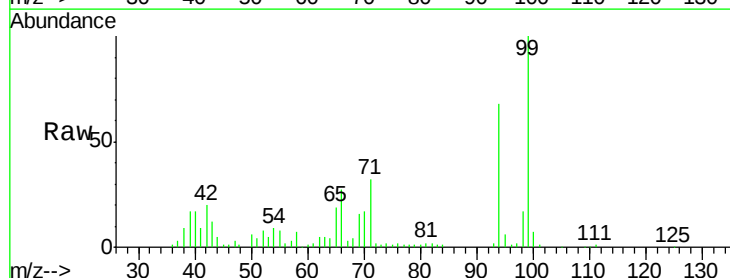
Tgt Ion: 94 Resp: 73246

Ion Ratio Lower Upper

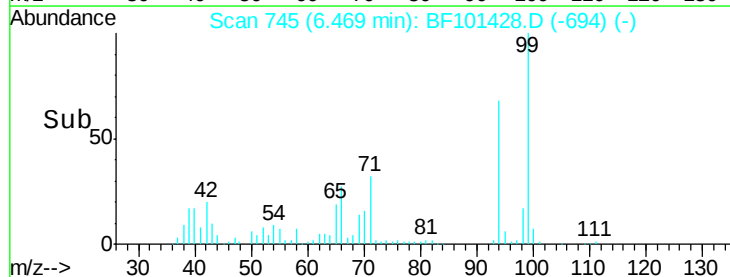
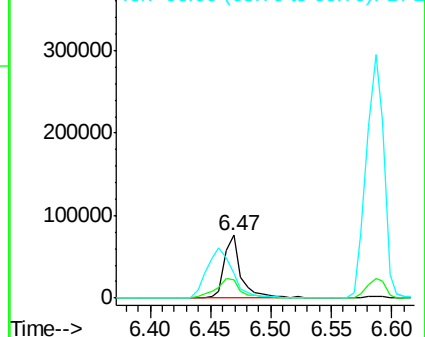
94 100

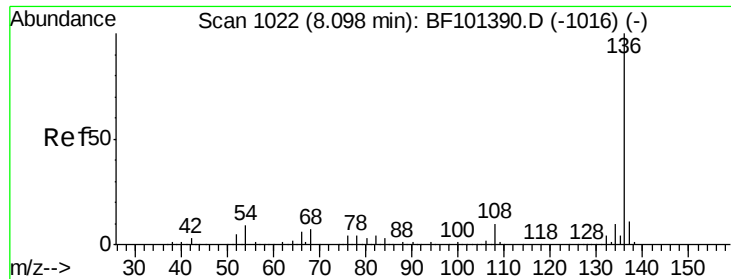
65 28.3 7.9 47.9

66 39.5 16.2 56.2



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.10 min Scan# 1022

Delta R.T. -0.00 min

Lab File: BF101428.D

Acq: 15 Dec 2017 7:25

Instrument :

BNA_F

ClientSampled :

Tot Ion:136 Resp: 674929

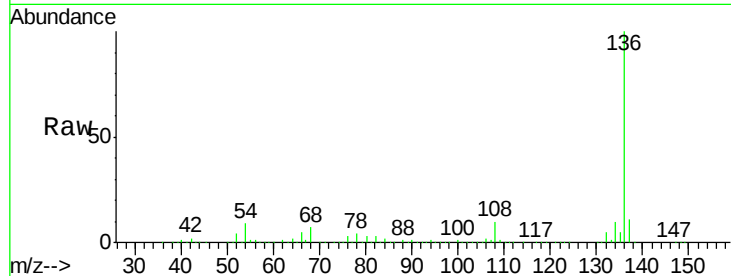
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 8.6 6.6 9.8

68 6.5 5.0 7.4

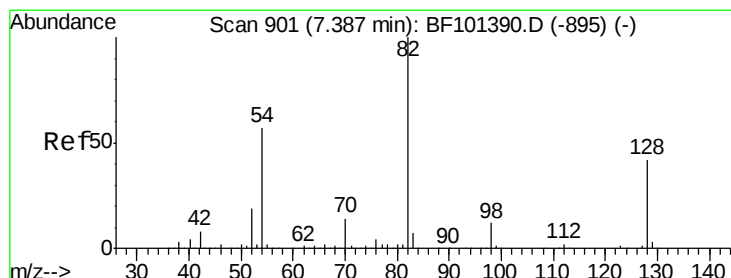
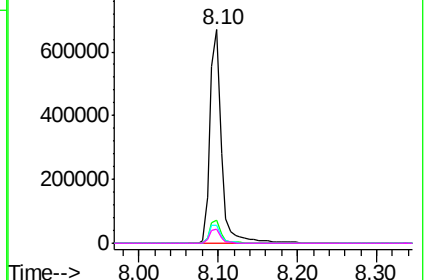
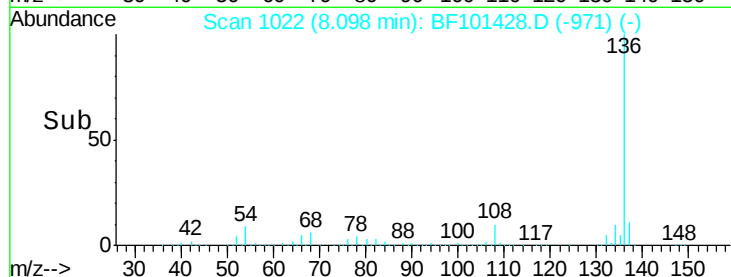


Abundance Ion 136.00 (135.70 to 136.70): E

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: 74.597 ng

RT: 7.39 min Scan# 901

Delta R.T. -0.00 min

Lab File: BF101428.D

Acq: 15 Dec 2017 7:25

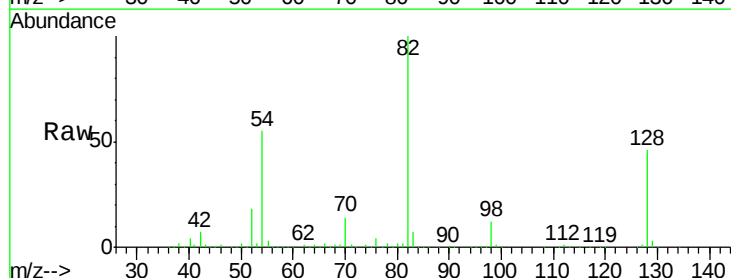
Tgt Ion: 82 Resp: 904463

Ion Ratio Lower Upper

82 100

128 46.1 36.1 54.1

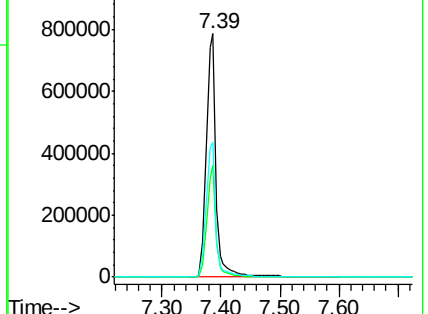
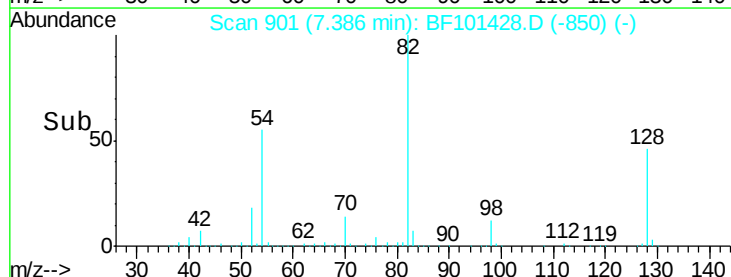
54 55.1 41.4 62.2

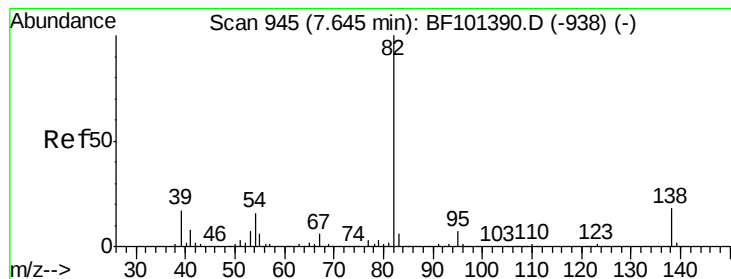


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 37.115 ng

RT: 7.39 min Scan# 901

Delta R.T. -0.26 min

Lab File: BF101428.D

Acq: 15 Dec 2017 7:25

Instrument :

BNA_F

ClientSampleId :

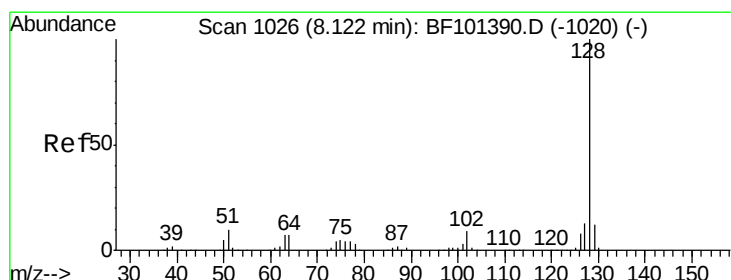
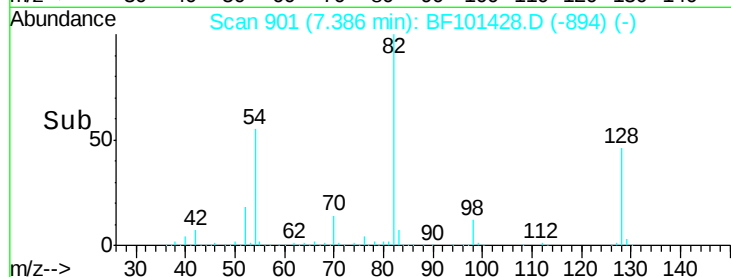
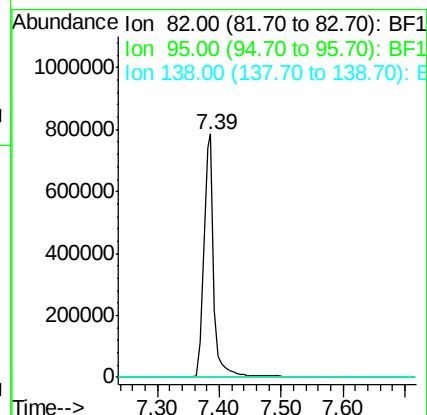
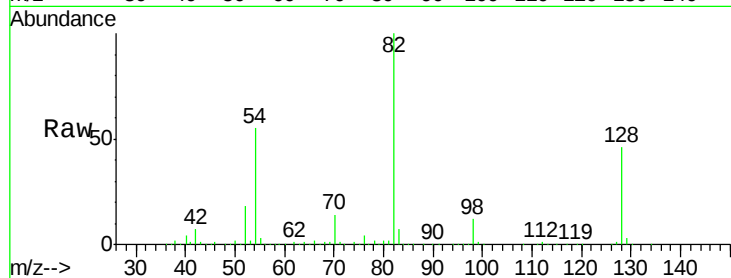
Tot Ion: 82 Resp: 902746

Ion Ratio Lower Upper

82 100

95 0.1 5.2 7.8#

138 0.0 14.9 22.3#



#31

Naphthalene

Concen: 2.172 ng

RT: 8.12 min Scan# 1025

Delta R.T. -0.01 min

Lab File: BF101428.D

Acq: 15 Dec 2017 7:25

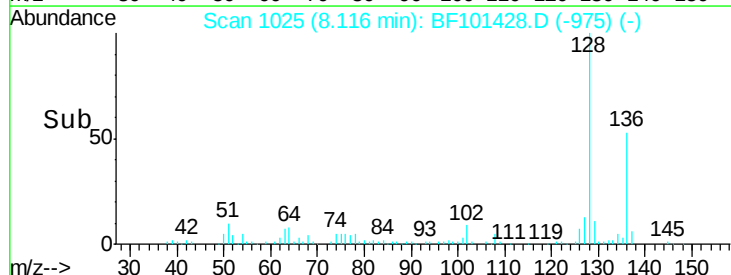
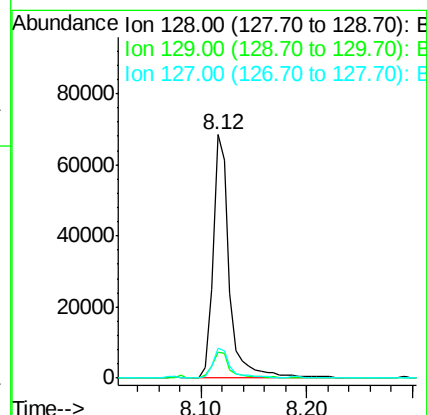
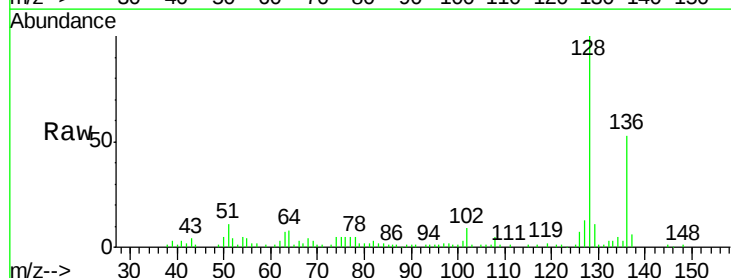
Tgt Ion: 128 Resp: 73802

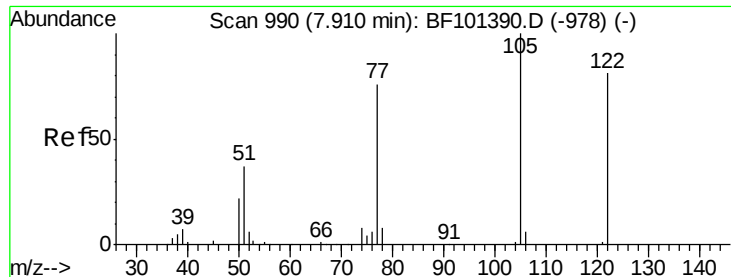
Ion Ratio Lower Upper

128 100

129 10.6 8.8 13.2

127 12.5 10.9 16.3





#32

Benzoic acid

Concen: 8.259 ng

RT: 7.92 min Scan# 992

Delta R.T. 0.01 min

Lab File: BF101428.D

Acq: 15 Dec 2017 7:25

Instrument :

BNA_F

ClientSampleId :

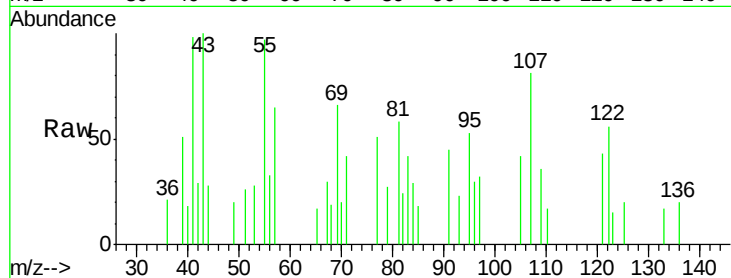
Tot Ion:122 Resp: 2357

Ion Ratio Lower Upper

122 100

105 75.1 101.1 141.1#

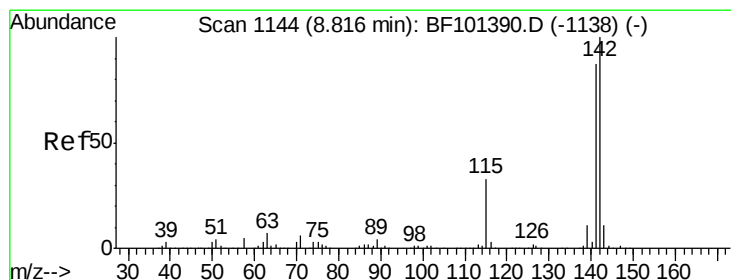
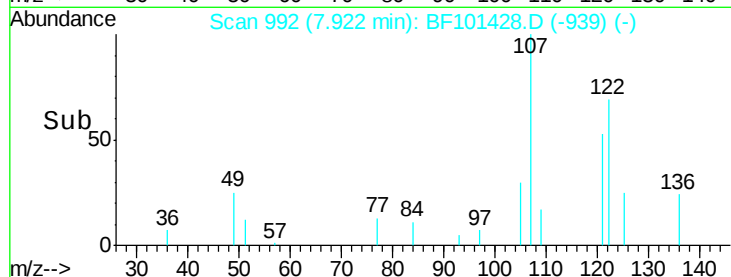
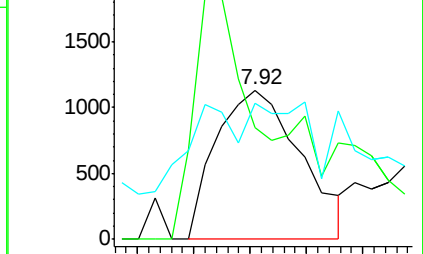
77 91.0 70.7 110.7



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



#37

2-Methylnaphthalene

Concen: 2.361 ng

RT: 8.81 min Scan# 1143

Delta R.T. -0.01 min

Lab File: BF101428.D

Acq: 15 Dec 2017 7:25

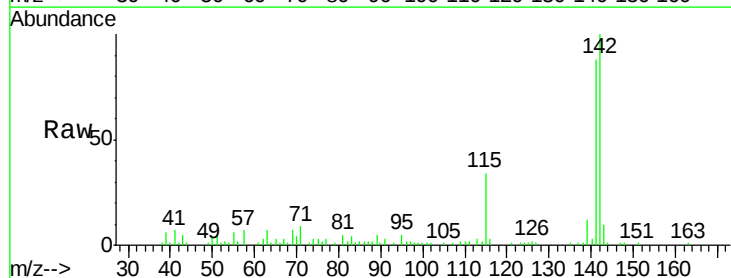
Tgt Ion:142 Resp: 52276

Ion Ratio Lower Upper

142 100

141 87.7 70.8 106.2

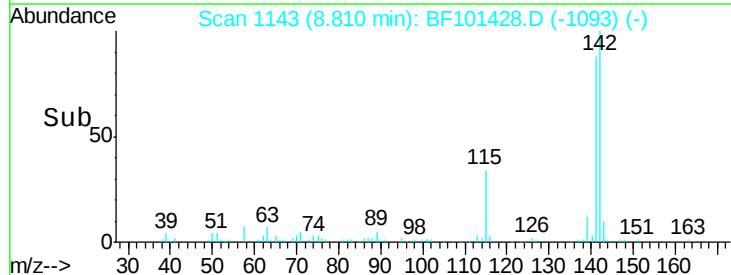
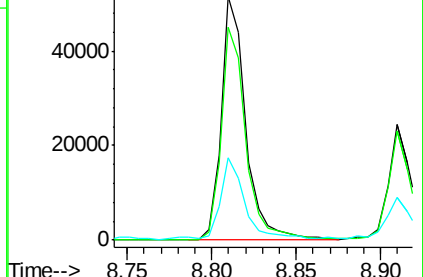
115 33.8 26.1 39.1

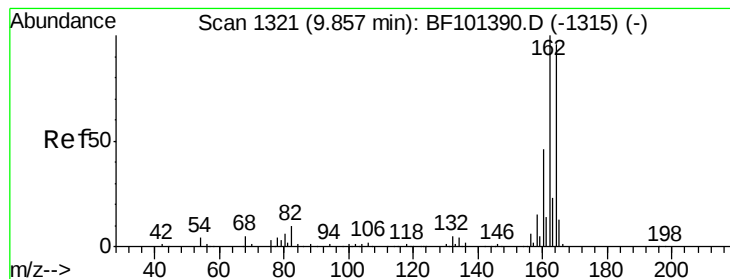


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.01 min

Lab File: BF101428.D

Acq: 15 Dec 2017 7:25

Instrument :

BNA_F

ClientSampleId :

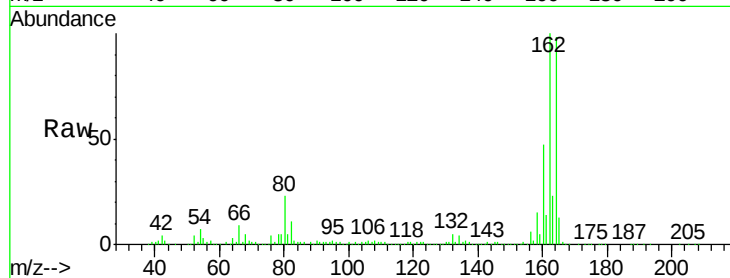
Tot Ion:164 Resp: 275398

Ion Ratio Lower Upper

164 100

162 101.6 86.1 129.1

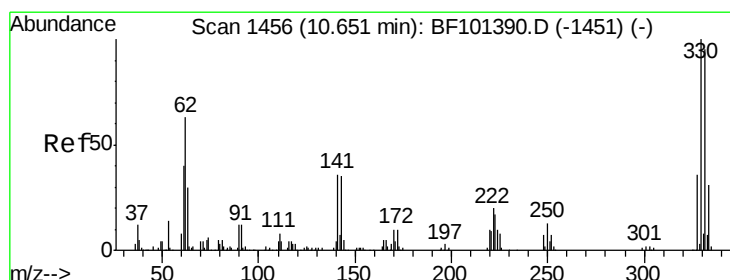
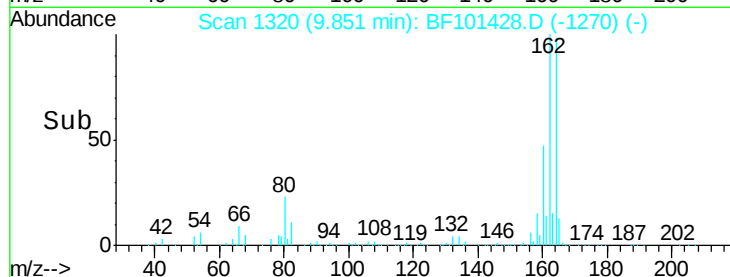
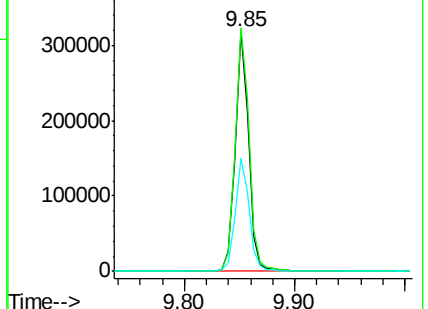
160 47.3 38.3 57.5



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: 96.346 ng

RT: 10.65 min Scan# 1456

Delta R.T. -0.00 min

Lab File: BF101428.D

Acq: 15 Dec 2017 7:25

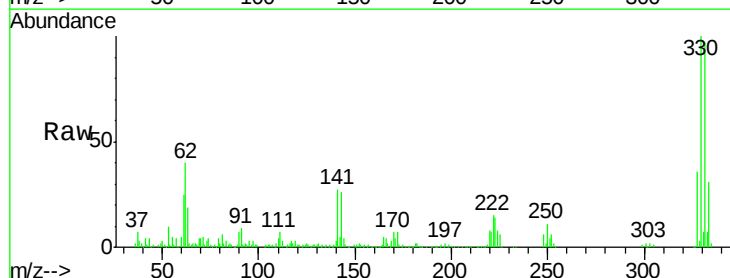
Tgt Ion:330 Resp: 255672

Ion Ratio Lower Upper

330 100

332 98.4 77.0 115.6

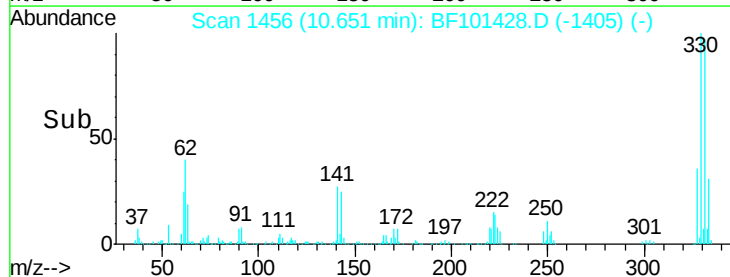
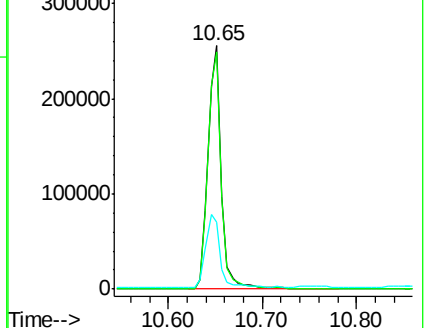
141 33.0 29.9 44.9

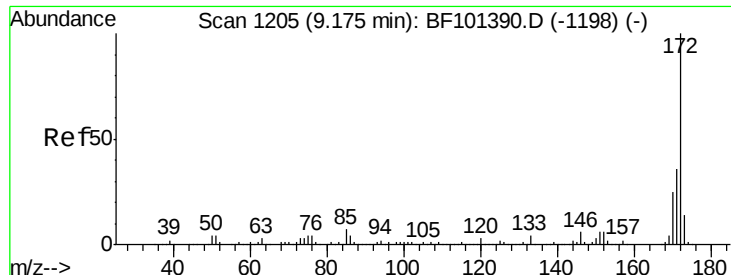


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

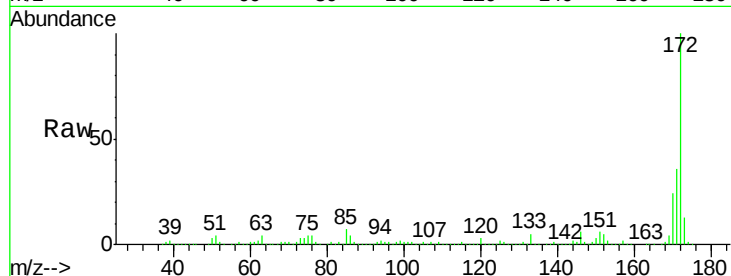




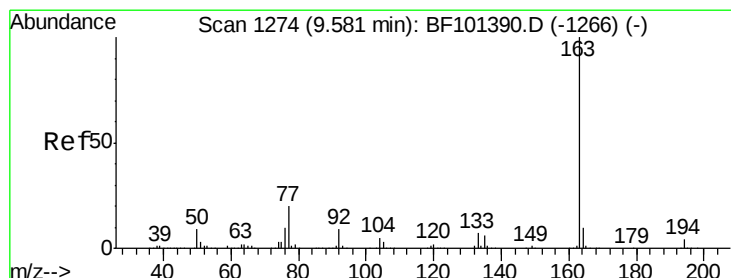
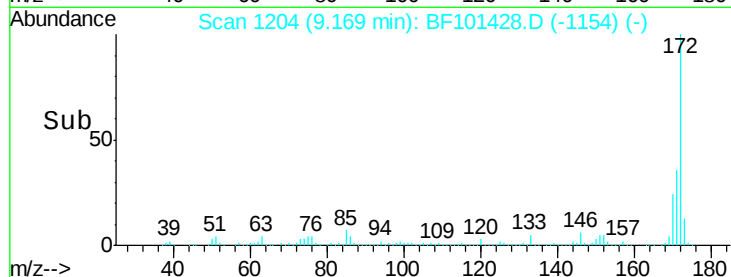
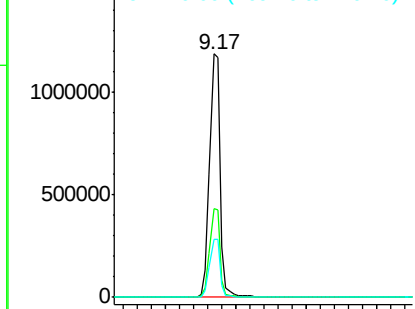
#44
2-Fluorobiphenyl
Concen: 69.747 ng
RT: 9.17 min Scan# 1204
Delta R.T. -0.01 min
Lab File: BF101428.D
Acq: 15 Dec 2017 7:25

Instrument :
BNA_F
ClientSampleId :

Tot Ion:172 Resp: 1238249
Ion Ratio Lower Upper
172 100
171 36.3 29.7 44.5
170 24.0 19.6 29.4

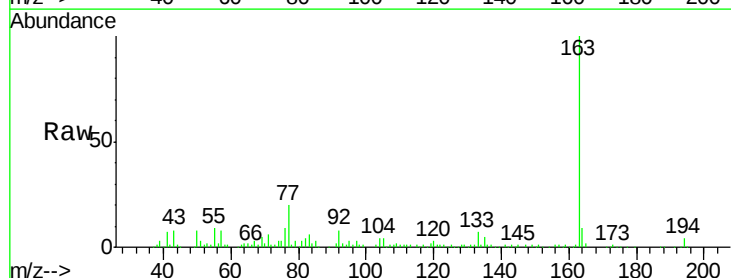


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

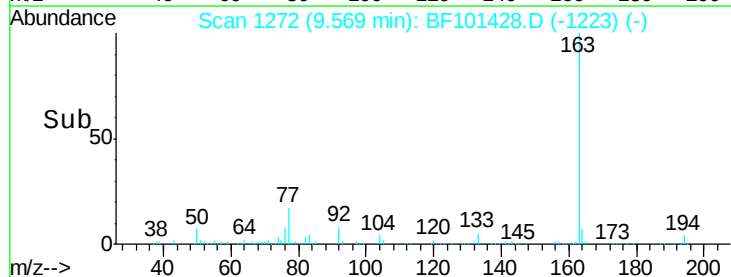
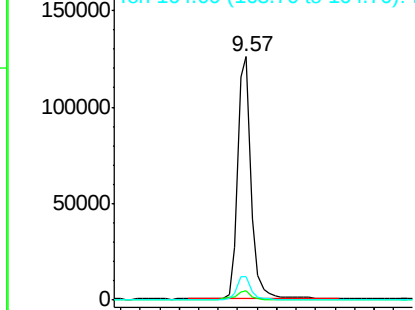


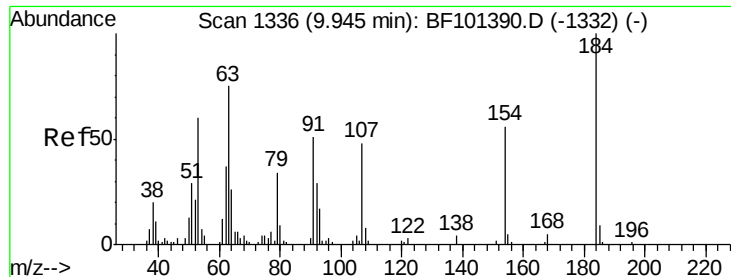
#49
Dimethylphthalate
Concen: 5.452 ng
RT: 9.57 min Scan# 1272
Delta R.T. -0.01 min
Lab File: BF101428.D
Acq: 15 Dec 2017 7:25

Tgt Ion:163 Resp: 120770
Ion Ratio Lower Upper
163 100
194 3.8 2.7 4.1
164 9.5 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

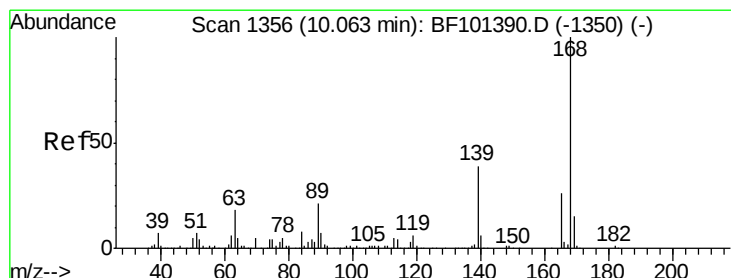
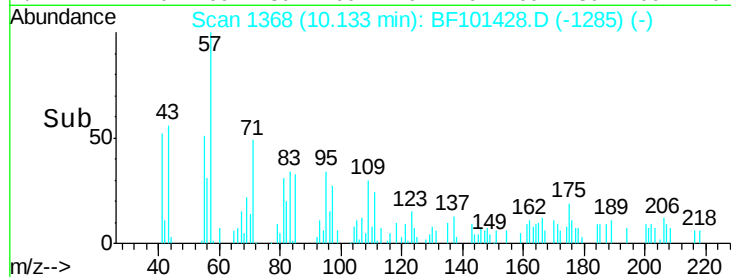
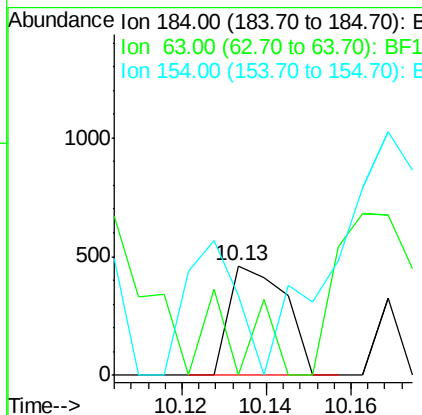
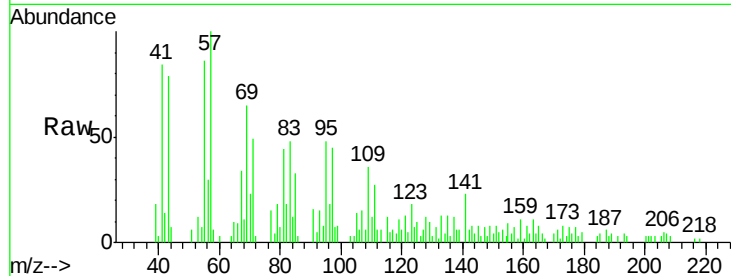




#53
 2,4-Dinitrophenol
 Concen: 10.556 ng
 RT: 10.13 min Scan# 1368
 Delta R.T. 0.19 min
 Lab File: BF101428.D
 Acq: 15 Dec 2017 7:25

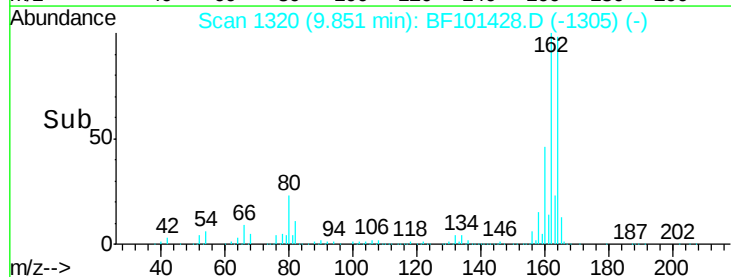
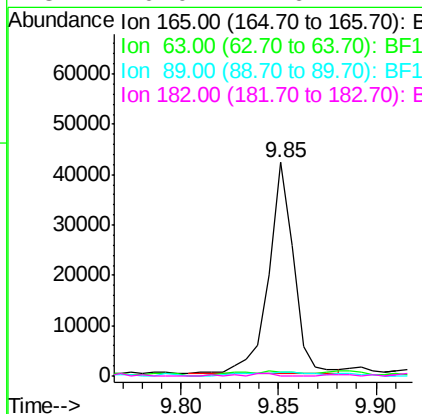
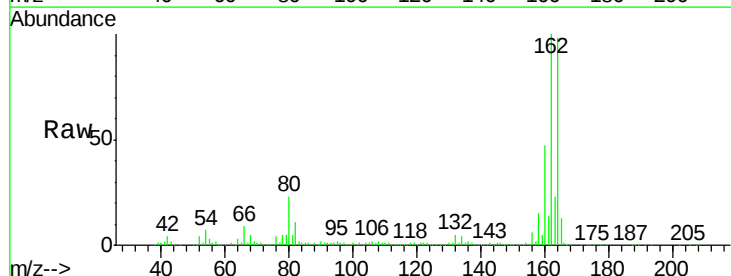
Instrument :
 BNA_F
 ClientSampled :

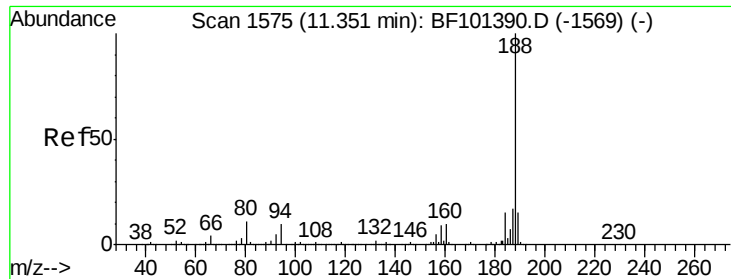
Tot Ion:184 Resp: 425
 Ion Ratio Lower Upper
 184 100
 63 0.0 54.2 81.2#
 154 72.4 184.0 276.0#



#56
 2,4-Dinitrotoluene
 Concen: 7.347 ng
 RT: 9.85 min Scan# 1320
 Delta R.T. -0.21 min
 Lab File: BF101428.D
 Acq: 15 Dec 2017 7:25

Tgt Ion:165 Resp: 37267
 Ion Ratio Lower Upper
 165 100
 63 2.1 36.4 54.6#
 89 1.9 57.8 86.6#
 182 0.0 1.6 2.4#

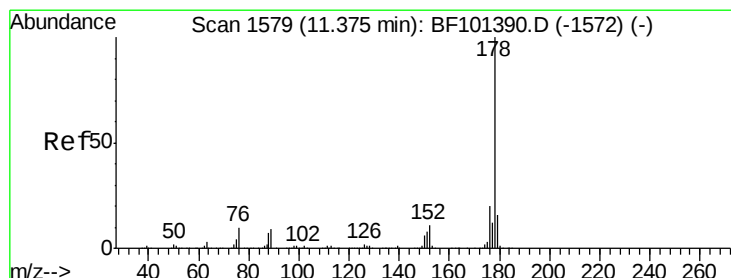
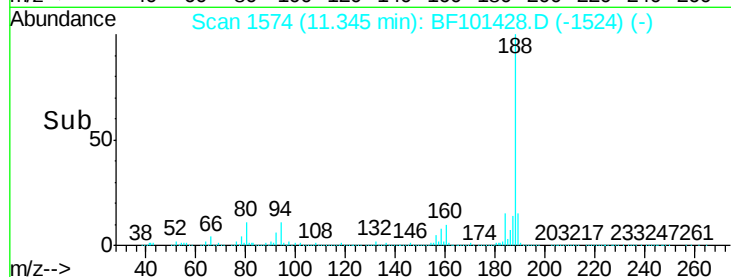
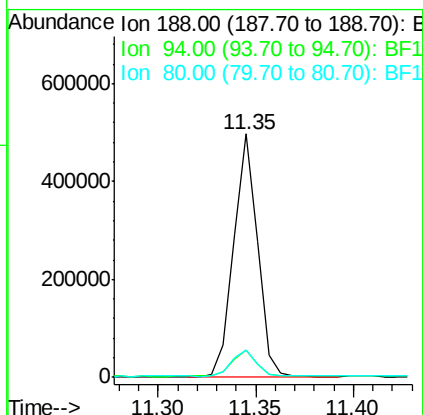
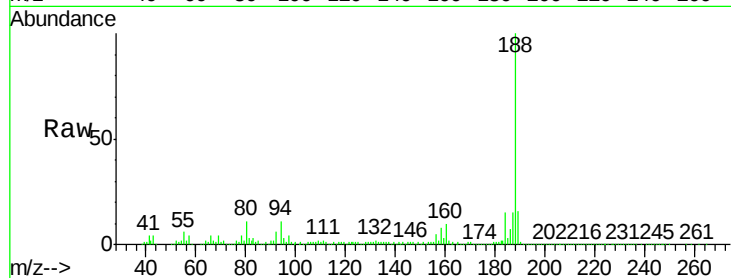




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.35 min Scan# 1574
Delta R.T. -0.01 min
Lab File: BF101428.D
Acq: 15 Dec 2017 7:25

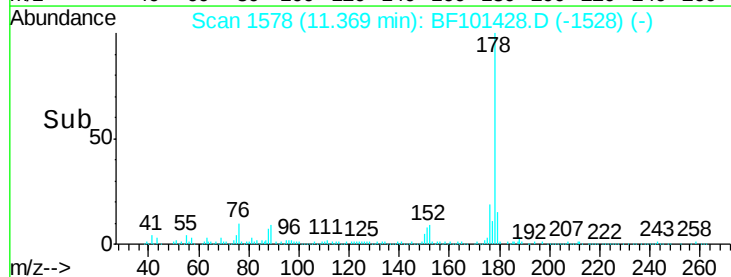
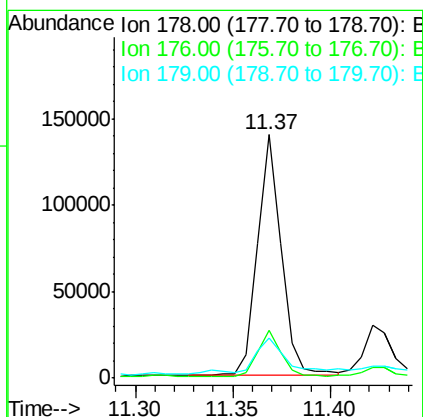
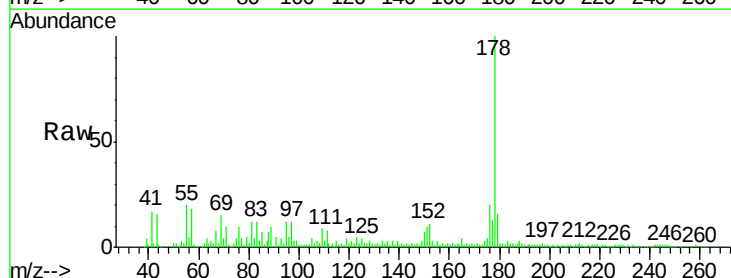
Instrument :
BNA_F
ClientSampleId :

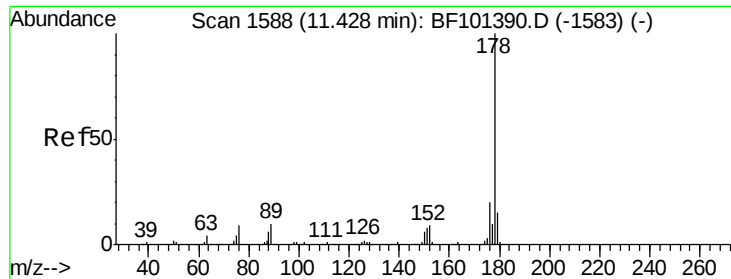
Tot Ion:188 Resp: 423567
Ion Ratio Lower Upper
188 100
94 11.3 8.5 12.7
80 11.4 9.2 13.8



#70
Phenanthrene
Concen: 4.961 ng
RT: 11.37 min Scan# 1578
Delta R.T. -0.01 min
Lab File: BF101428.D
Acq: 15 Dec 2017 7:25

Tgt Ion:178 Resp: 116855
Ion Ratio Lower Upper
178 100
176 19.8 15.8 23.8
179 16.4 13.0 19.6

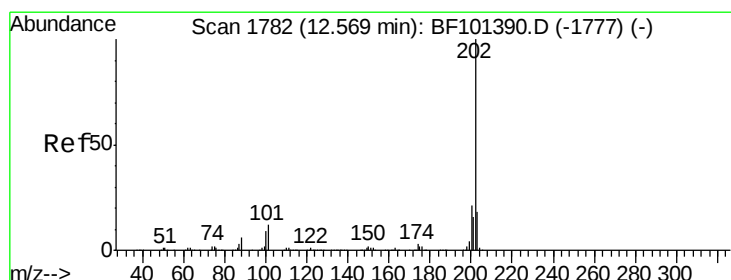
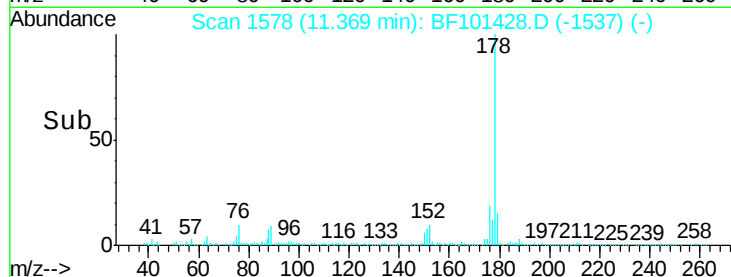
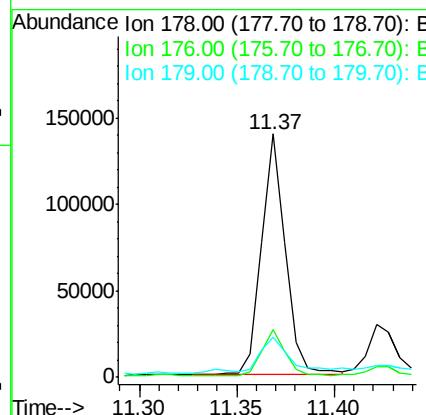
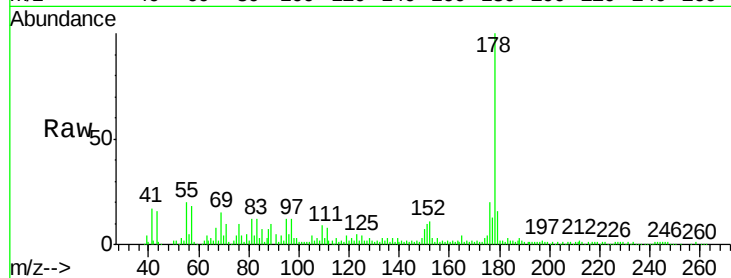




#71
 Anthracene
 Concen: 4.857 ng
 RT: 11.37 min Scan# 1578
 Delta R.T. -0.06 min
 Lab File: BF101428.D
 Acq: 15 Dec 2017 7:25

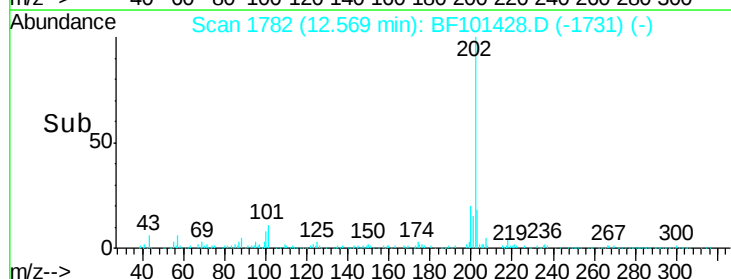
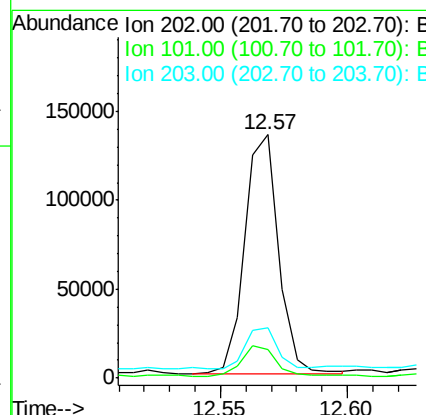
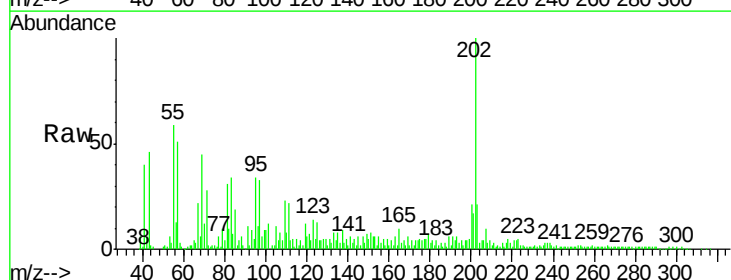
Instrument :
 BNA_F
 ClientSampleId :

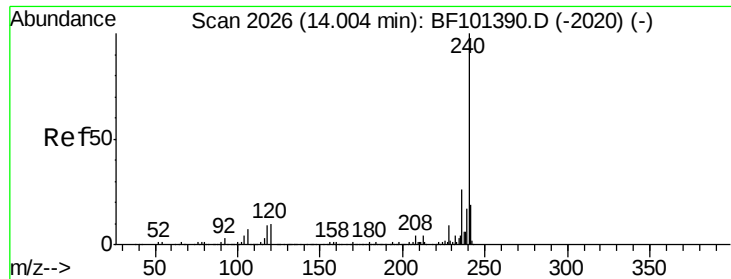
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.4	23.2
179	16.4	12.6	19.0



#74
 Fluoranthene
 Concen: 5.002 ng
 RT: 12.57 min Scan# 1782
 Delta R.T. -0.00 min
 Lab File: BF101428.D
 Acq: 15 Dec 2017 7:25

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.9	0.0	34.1
203	20.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.01 min Scan# 2027

Delta R.T. 0.01 min

Lab File: BF101428.D

Acq: 15 Dec 2017 7:25

Instrument :

BNA_F

ClientSampleId :

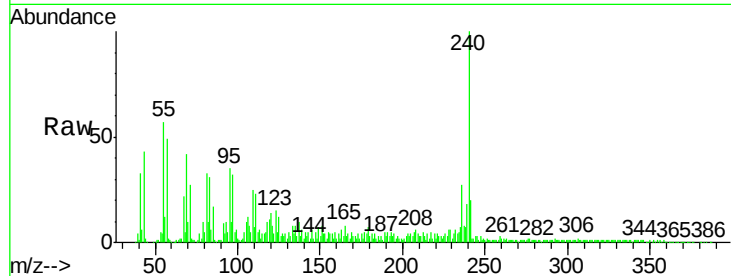
Tot Ion:240 Resp: 244146

Ion Ratio Lower Upper

240 100

120 14.1 9.5 14.3

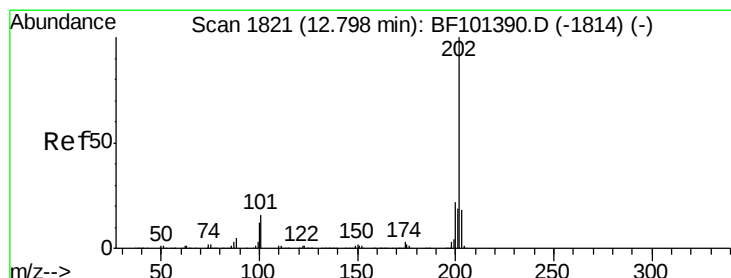
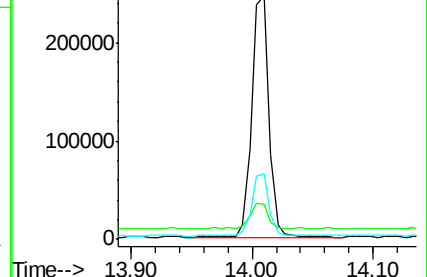
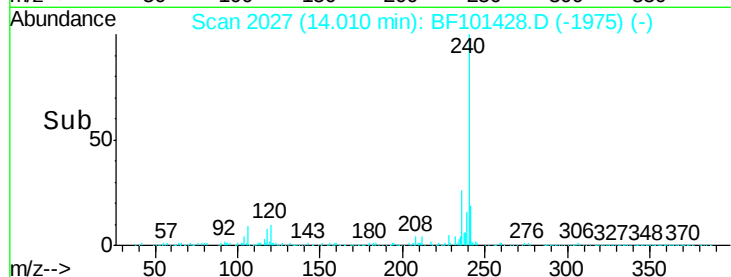
236 27.0 20.7 31.1



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

Pyrene

Concen: 8.072 ng

RT: 12.80 min Scan# 1821

Delta R.T. -0.00 min

Lab File: BF101428.D

Acq: 15 Dec 2017 7:25

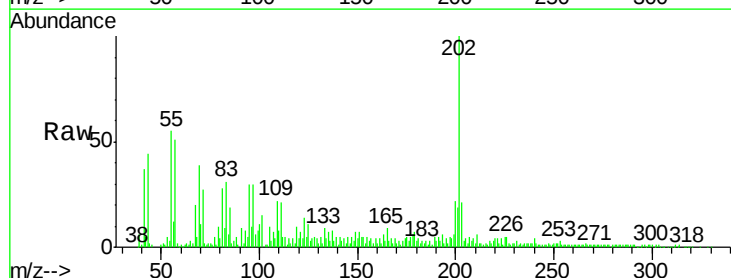
Tgt Ion:202 Resp: 147907

Ion Ratio Lower Upper

202 100

200 22.1 17.4 26.2

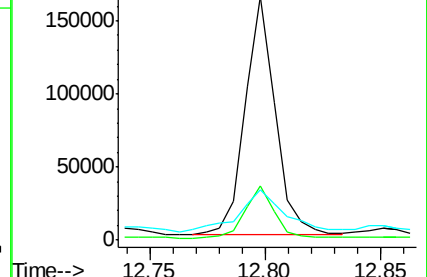
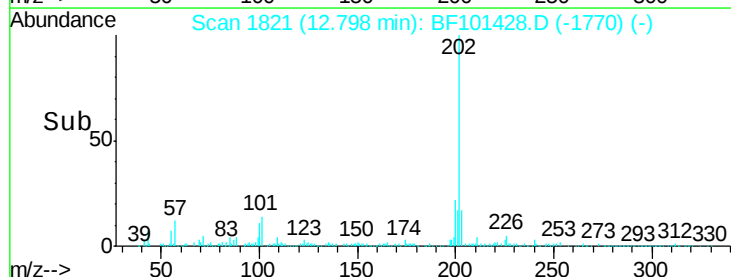
203 20.7 14.3 21.5

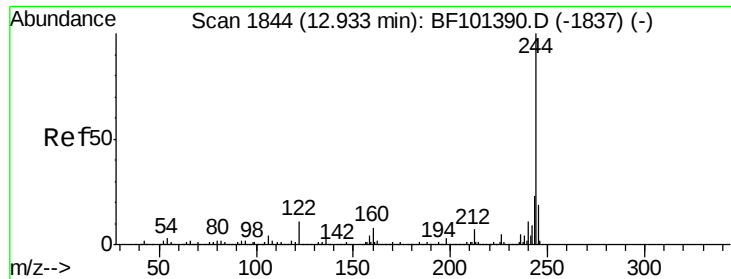


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

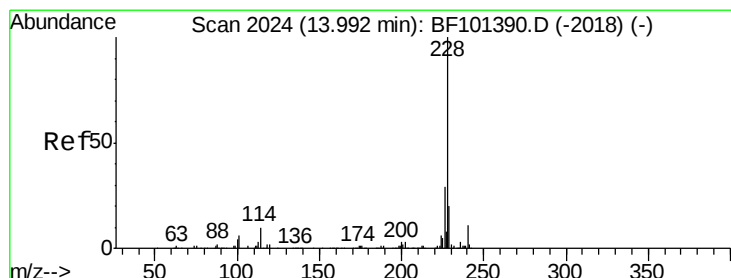
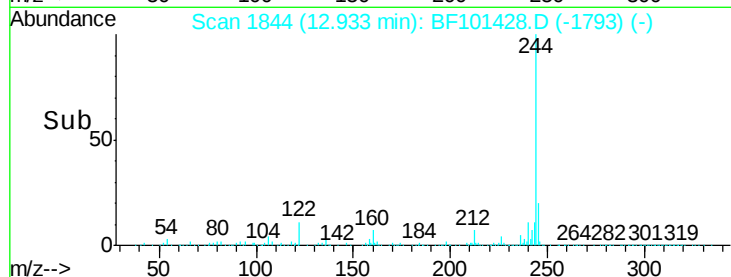
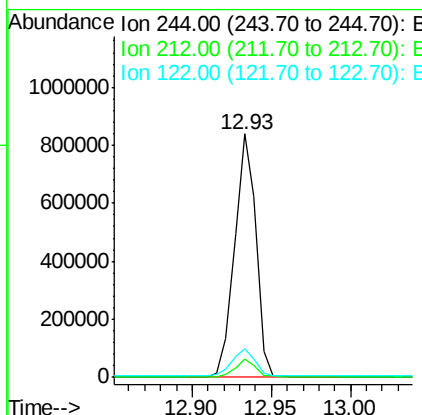
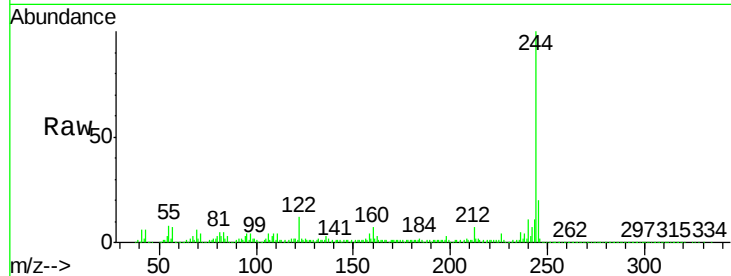




#78
 Terphenyl-d14
 Concen: 77.046 ng
 RT: 12.93 min Scan# 1844
 Delta R.T. -0.00 min
 Lab File: BF101428.D
 Acq: 15 Dec 2017 7:25

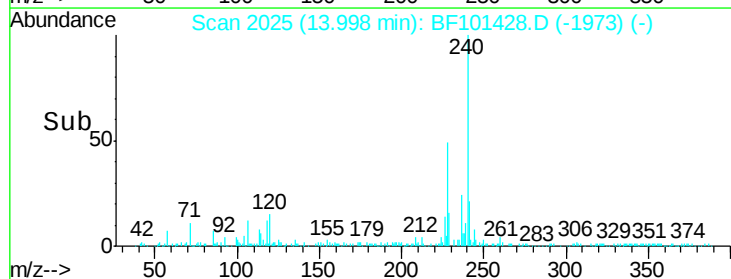
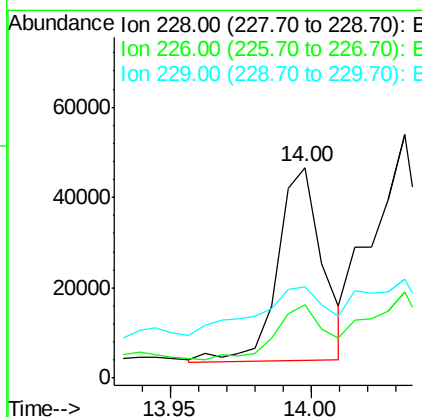
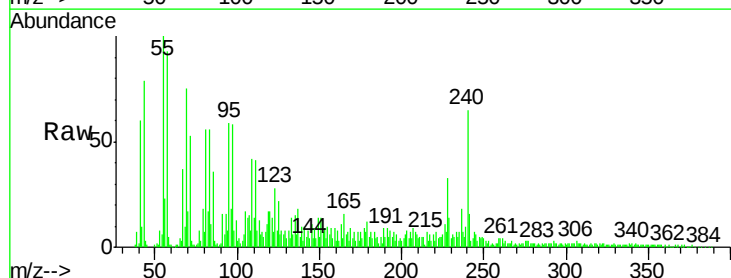
Instrument :
 BNA_F
 ClientSampleId :

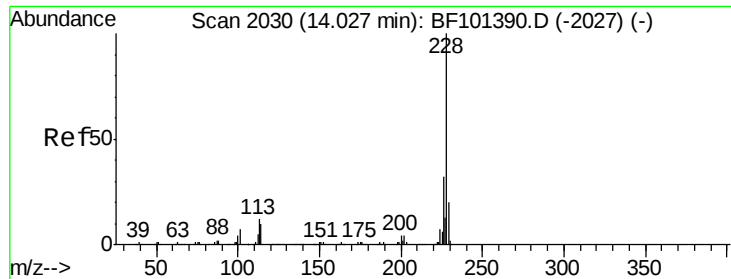
Tot Ion:244 Resp: 780273
 Ion Ratio Lower Upper
 244 100
 212 7.3 5.4 8.0
 122 11.5 11.0 16.4



#80
 Benzo(a)anthracene
 Concen: 2.920 ng
 RT: 14.00 min Scan# 2025
 Delta R.T. 0.01 min
 Lab File: BF101428.D
 Acq: 15 Dec 2017 7:25

Tgt Ion:228 Resp: 47082
 Ion Ratio Lower Upper
 228 100
 226 34.7 22.6 33.8#
 229 43.5 15.8 23.6#

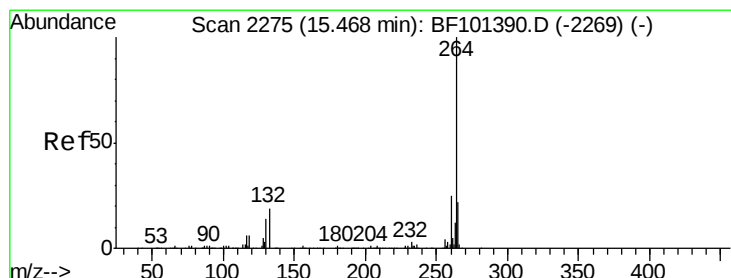
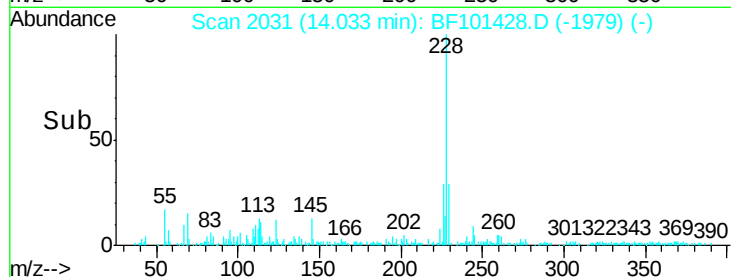
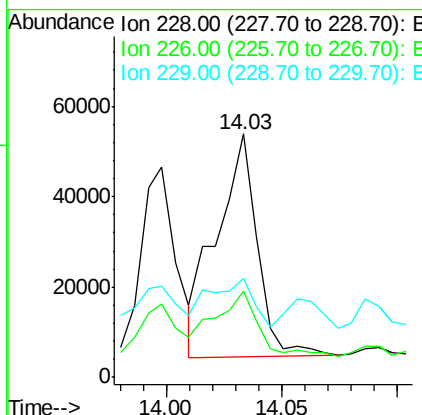
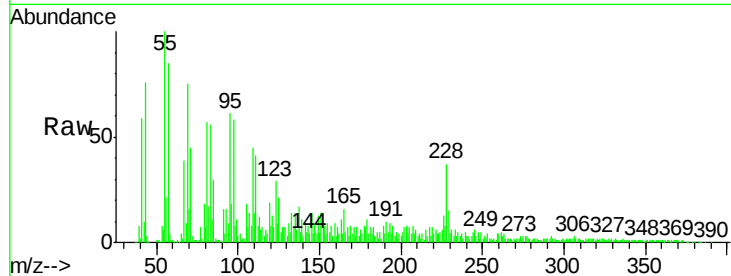




#82
Chrysene
Concen: 4.005 ng
RT: 14.03 min Scan# 2031
Delta R.T. 0.01 min
Lab File: BF101428.D
Acq: 15 Dec 2017 7:25

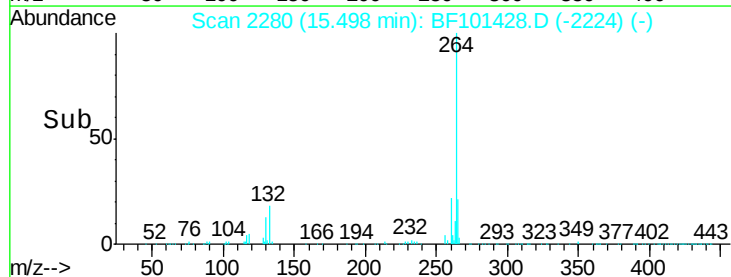
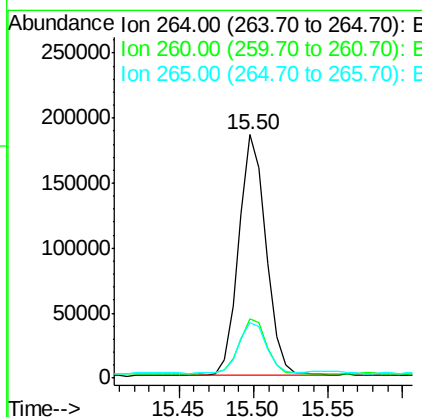
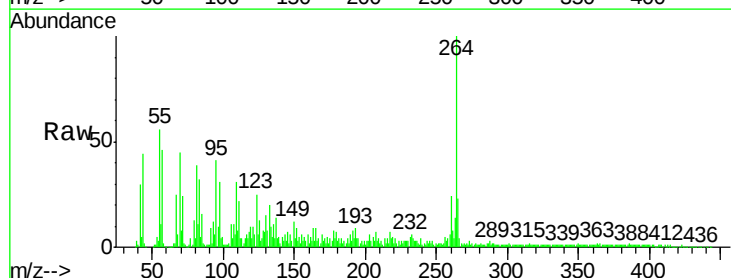
Instrument :
BNA_F
ClientSampleId :

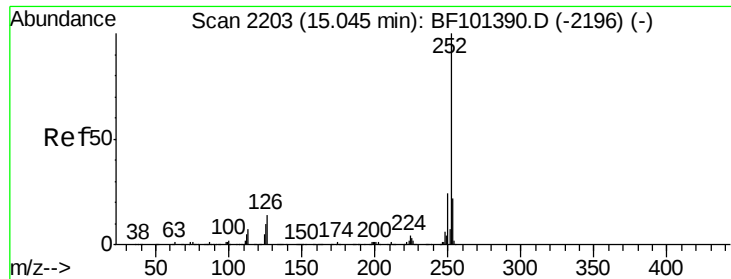
Tot Ion	Ratio	Lower	Upper
228	100		
226	35.3	25.0	37.6
229	40.8	16.2	24.4



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2280
Delta R.T. 0.03 min
Lab File: BF101428.D
Acq: 15 Dec 2017 7:25

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.2	28.8
265	22.6	17.5	26.3

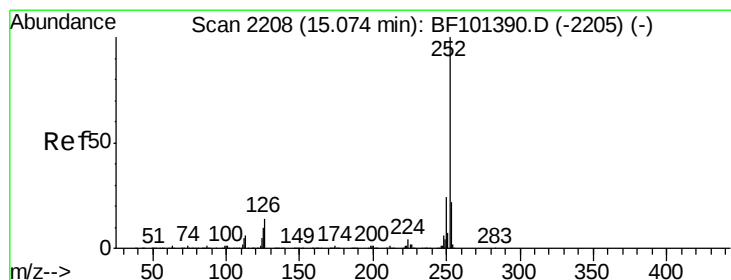
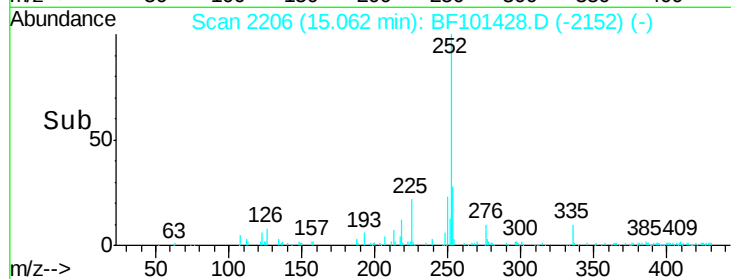
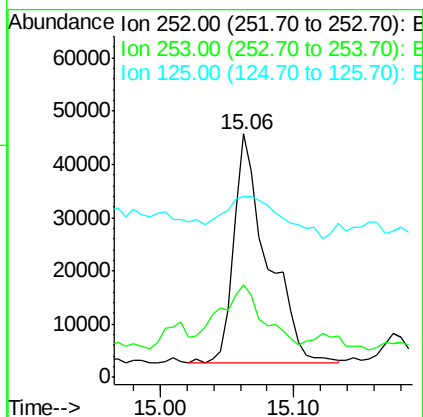
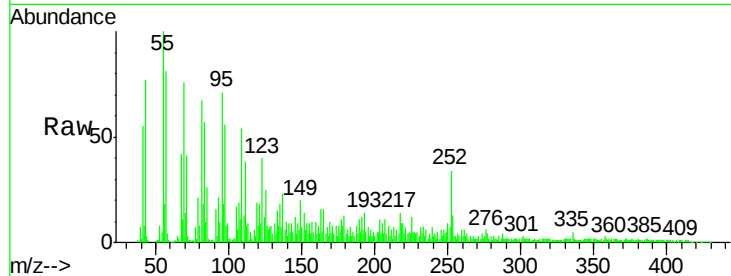




#87
Benzo(b)fluoranthene
Concen: 5.274 ng
RT: 15.06 min Scan# 2206
Delta R.T. 0.02 min
Lab File: BF101428.D
Acq: 15 Dec 2017 7:25

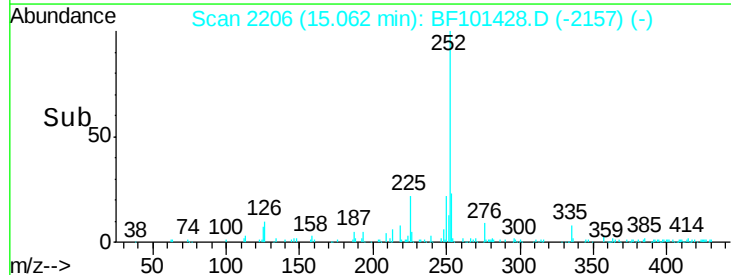
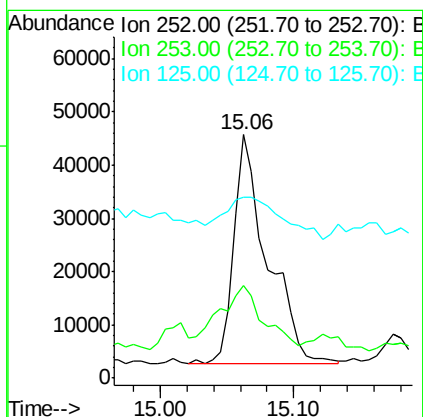
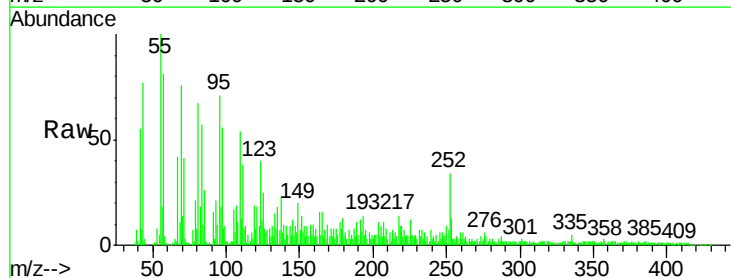
Instrument :
BNA_F
ClientSampleId :

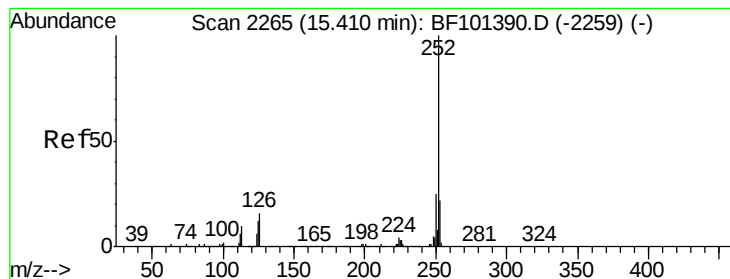
Tot Ion:252 Resp: 76064
Ion Ratio Lower Upper
252 100
253 38.2 17.0 25.6#
125 74.2 9.0 13.6#



#88
Benzo(k)fluoranthene
Concen: 5.424 ng
RT: 15.06 min Scan# 2206
Delta R.T. -0.01 min
Lab File: BF101428.D
Acq: 15 Dec 2017 7:25

Tgt Ion:252 Resp: 76064
Ion Ratio Lower Upper
252 100
253 38.2 17.9 26.9#
125 74.2 10.2 15.2#





#89

Benzo(a)pyrene

Concen: 2.745 ng

RT: 15.44 min Scan# 2270

Delta R.T. 0.03 min

Lab File: BF101428.D

Acq: 15 Dec 2017 7:25

Instrument :

BNA_F

ClientSampleId :

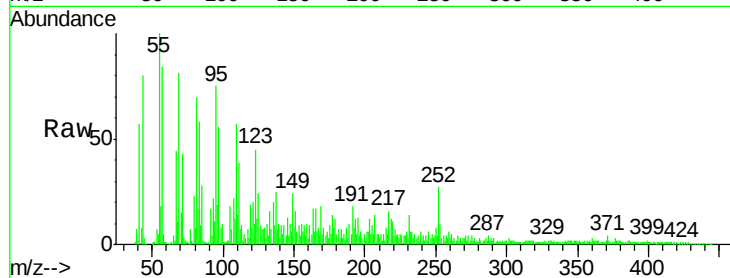
Tot Ion:252 Resp: 36493

Ion Ratio Lower Upper

252 100

253 36.1 17.1 25.7#

125 86.4 9.8 14.6#

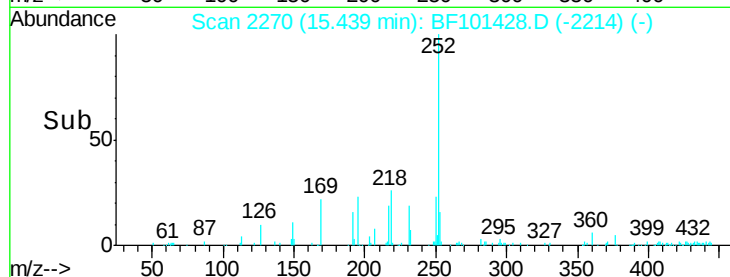


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

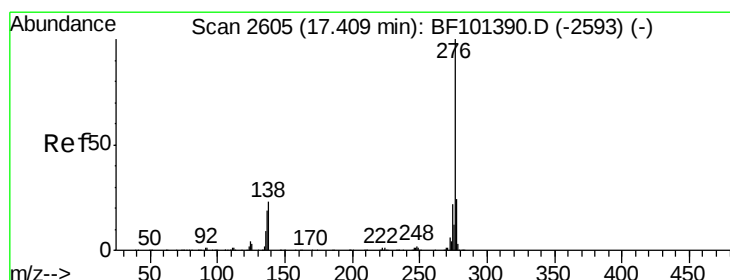
Ion 125.00 (124.70 to 125.70): E

Time-->



Abundance

Time-->



#91

Benzo(g,h,i)perylene

Concen: 2.603 ng

RT: 17.44 min Scan# 2611

Delta R.T. 0.04 min

Lab File: BF101428.D

Acq: 15 Dec 2017 7:25

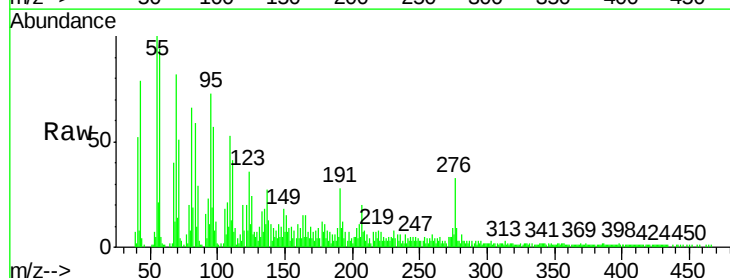
Tgt Ion:276 Resp: 29423

Ion Ratio Lower Upper

276 100

277 27.4 17.9 26.9#

138 40.0 21.8 32.8#

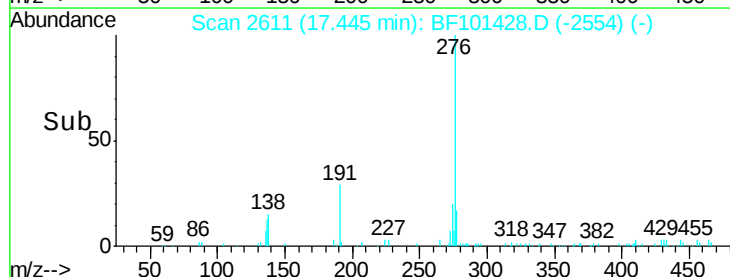


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

Time-->



Abundance

Time-->