

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040918\
 Data File : BF104395.D
 Acq On : 10 Apr 2018 2:18
 Operator : JU/SJ
 Sample : J2184-05DL 20X
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-3-1(1-3)DL

Quant Time: Apr 13 05:27:38 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 12 17:07:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	118129	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	434684	20.00	ng	-0.01
38) Acenaphthene-d10	9.85	164	169588	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	277479	20.00	ng	0.00
75) Chrysene-d12	13.98	240	276713	20.00	ng	-0.01
86) Perylene-d12	15.44	264	217808	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.40	112	51828	6.71	ng	-0.02
7) Phenol-d6	6.42	99	61576	6.49	ng	-0.03
23) Nitrobenzene-d5	7.36	82	29948	4.50	ng	-0.02
41) 2,4,6-Tribromophenol	10.63	330	9167	5.21	ng	-0.02
44) 2-Fluorobiphenyl	9.16	172	58954	5.49	ng	-0.01
78) Terphenyl-d14	12.92	244	51158	4.21	ng	-0.02

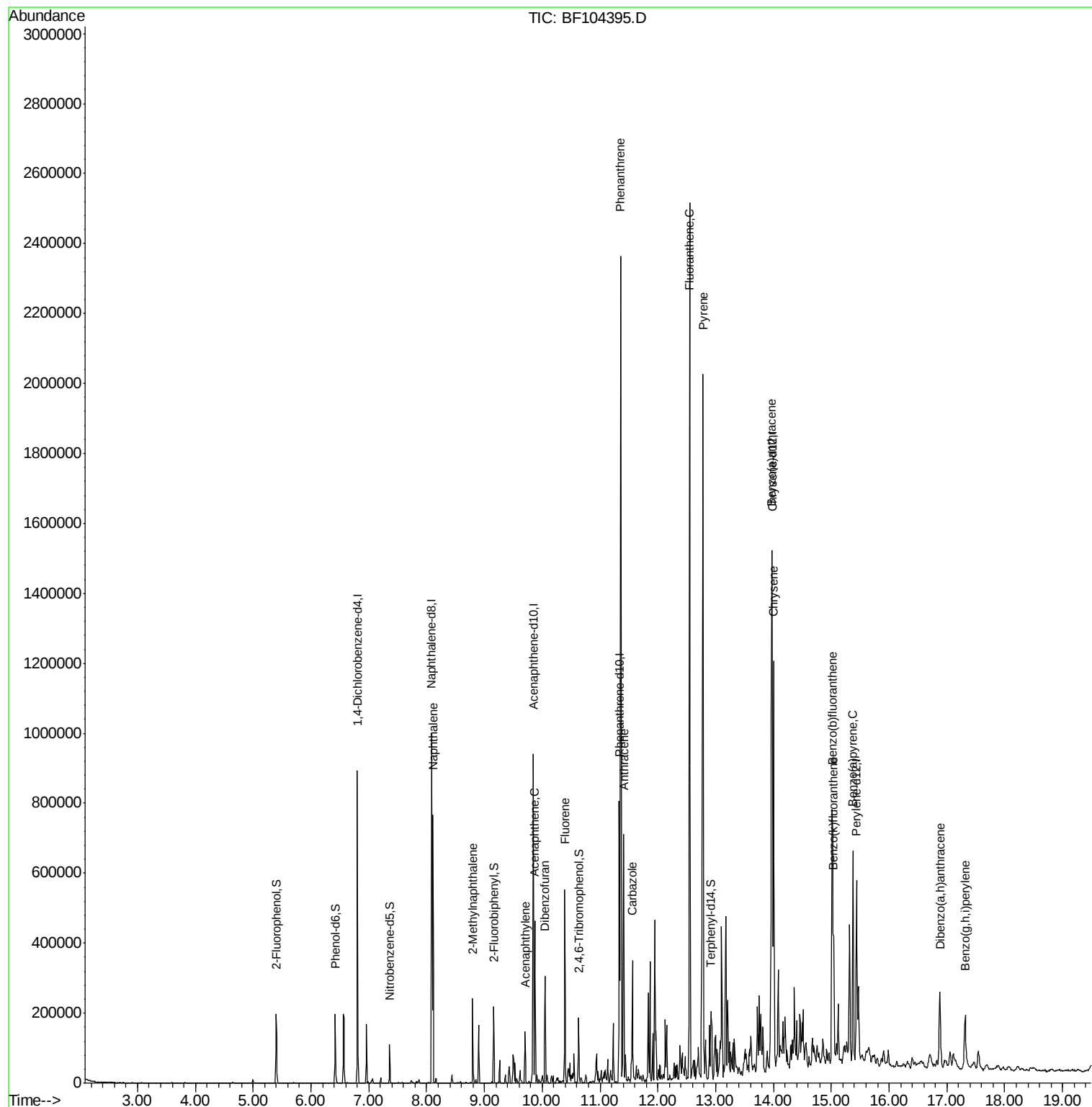
Target Compounds				Qvalue		
31) Naphthalene	8.11	128	283437	13.095	ng	99
37) 2-Methylnaphthalene	8.80	142	59445	4.246	ng	99
48) Acenaphthylene	9.70	152	49727	2.817	ng	99
51) Acenaphthene	9.87	154	87338	8.108	ng	99
54) Dibenzofuran	10.05	168	105661	7.038	ng	99
57) Fluorene	10.39	166	137249	12.560	ng	99
70) Phenanthrene	11.36	178	922459	59.696	ng	99
71) Anthracene	11.41	178	263995	16.807	ng	99
72) Carbazole	11.56	167	135009	8.796	ng	98
74) Fluoranthene	12.55	202	973425	60.293	ng	98
77) Pyrene	12.78	202	811492	39.564	ng	100
80) Benzo(a)anthracene	13.97	228	440568	26.651	ng	98
82) Chrysene	14.00	228	400067m	23.561	ng	
87) Benzo(b)fluoranthene	15.02	252	411168m	29.889	ng	
88) Benzo(k)fluoranthene	15.04	252	136560m	10.515	ng	
89) Benzo(a)pyrene	15.37	252	269196	21.871	ng	97
90) Dibenzo(a,h)anthracene	16.89	278	36745	3.635	ng	95
91) Benzo(g,h,i)perylene	17.31	276	118724	12.122	ng	96

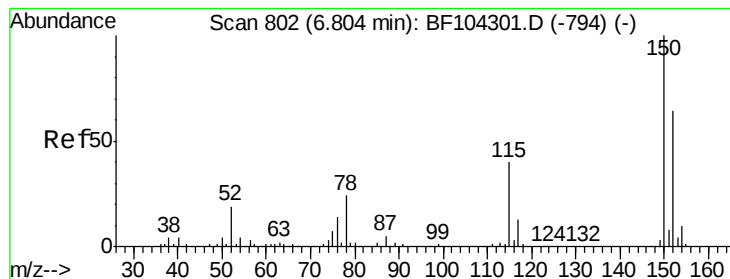
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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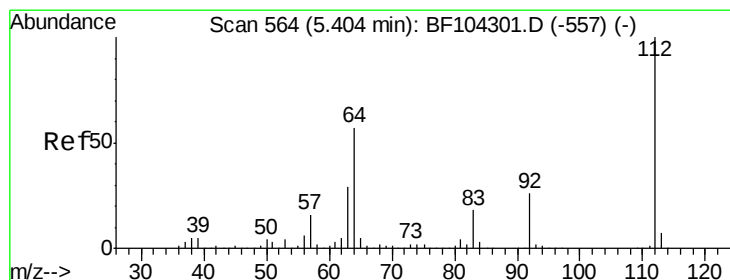
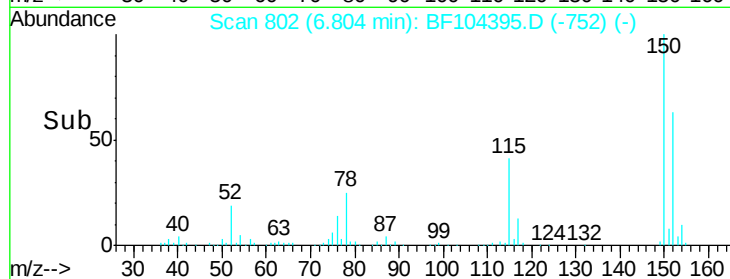
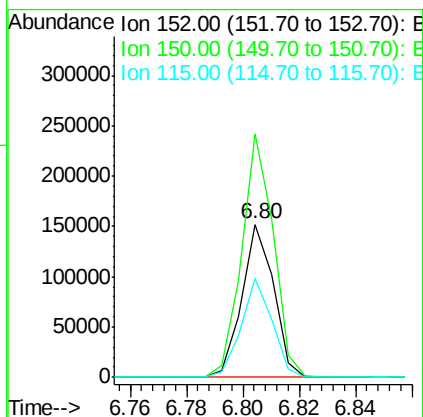
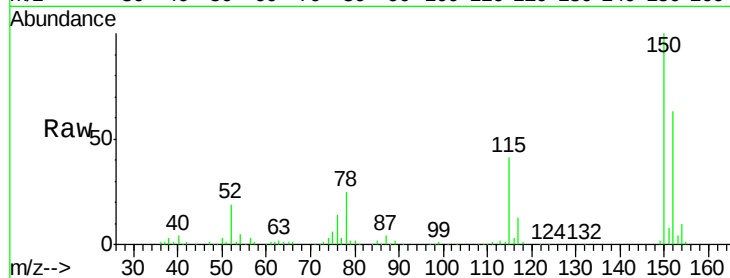


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF104395.D
Acq: 10 Apr 2018 2:18

Instrument :
BNA_F
ClientSampleId :
SB-3-1(1-3)DL

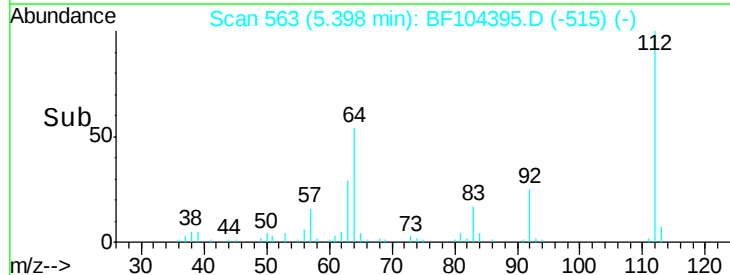
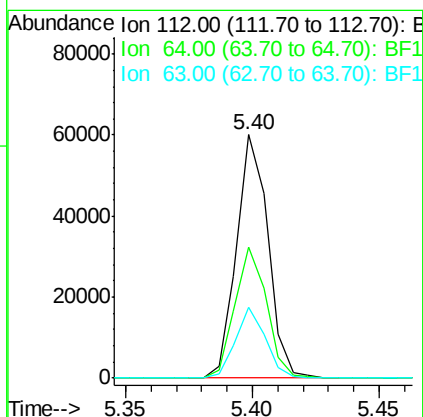
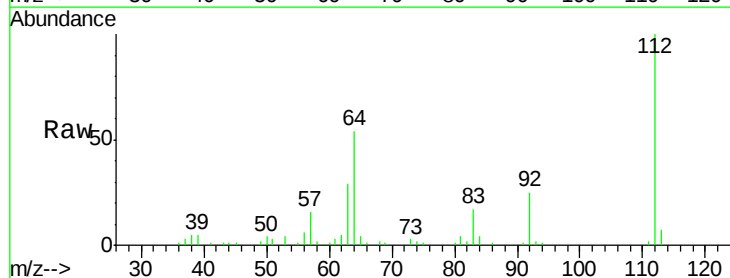
Tot Ion:152 Resp: 118129
Ion Ratio Lower Upper
152 100
150 159.4 124.6 186.8
115 64.7 50.1 75.1

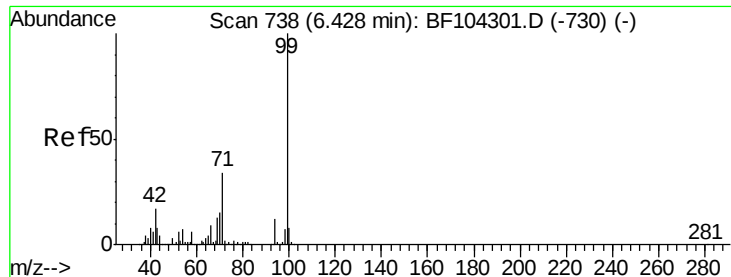


#5

2-Fluorophenol
Concen: 6.709 ng
RT: 5.40 min Scan# 563
Delta R.T. -0.02 min
Lab File: BF104395.D
Acq: 10 Apr 2018 2:18

Tgt Ion:112 Resp: 51828
Ion Ratio Lower Upper
112 100
64 53.6 47.9 71.9
63 29.3 23.7 35.5





#7

Phenol-d6

Concen: 6.487 ng

RT: 6.42 min Scan# 736

Delta R.T. -0.03 min

Lab File: BF104395.D

Acq: 10 Apr 2018 2:18

Instrument :

BNA_F

ClientSampleId :

SB-3-1(1-3)DL

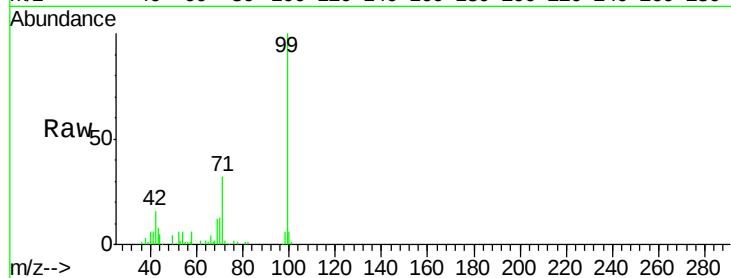
Tot Ion: 99 Resp: 61576

Ion Ratio Lower Upper

99 100

42 15.7 14.5 21.7

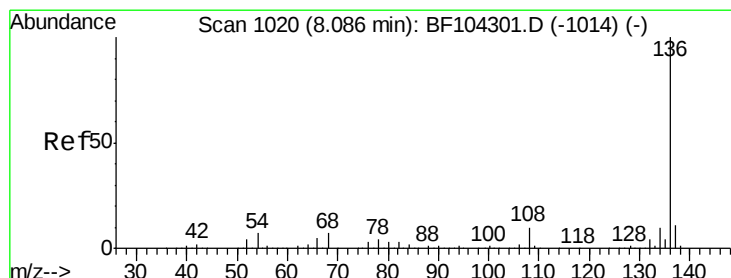
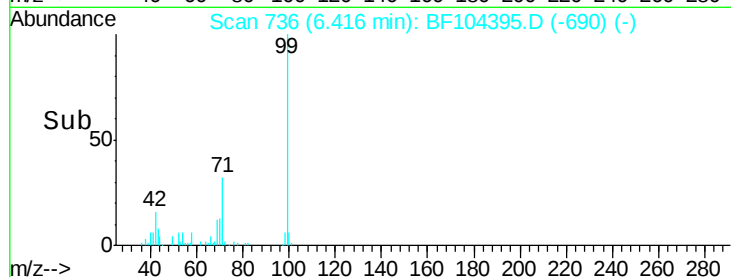
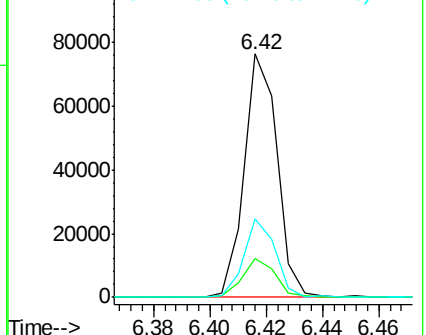
71 32.4 25.4 38.0



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: 8.09 min Scan# 1020

Delta R.T. -0.01 min

Lab File: BF104395.D

Acq: 10 Apr 2018 2:18

Tgt Ion: 136 Resp: 434684

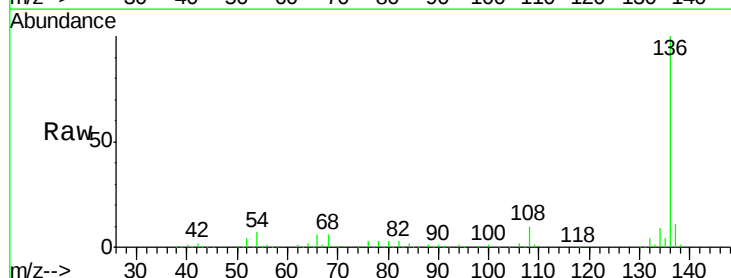
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 7.3 6.6 9.8

68 6.3 5.0 7.4

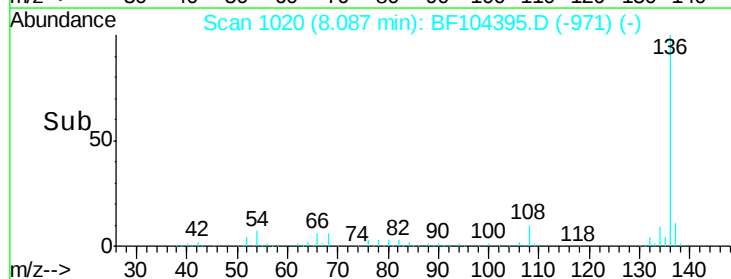
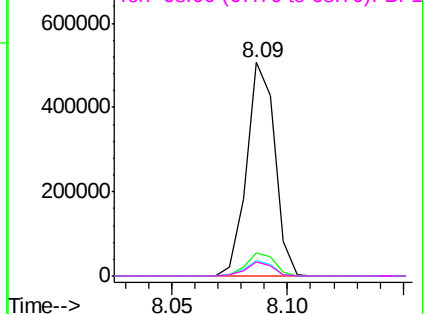


Abundance Ion 136.00 (135.70 to 136.70): E

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

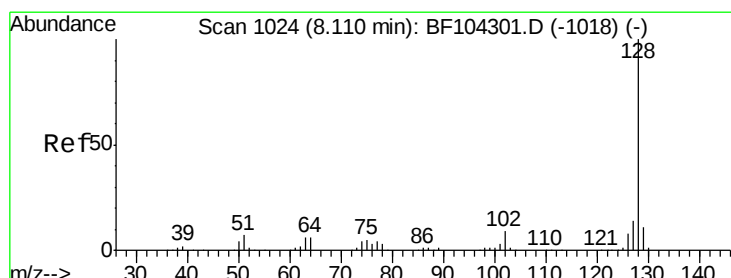
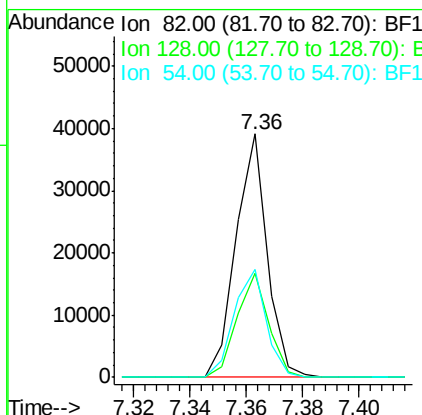
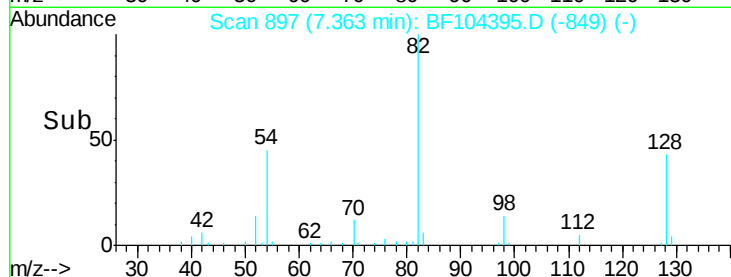
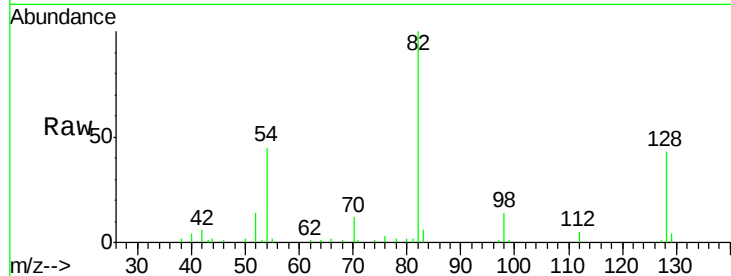




#23
Nitrobenzene-d5
Concen: 4.499 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.02 min
Lab File: BF104395.D
Acq: 10 Apr 2018 2:18

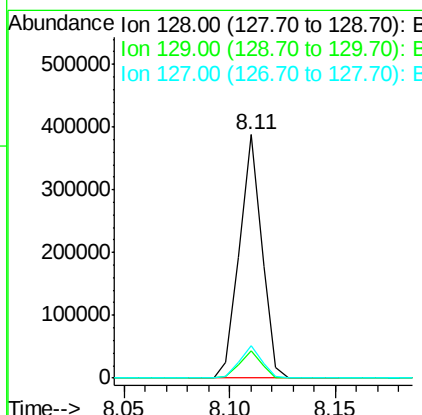
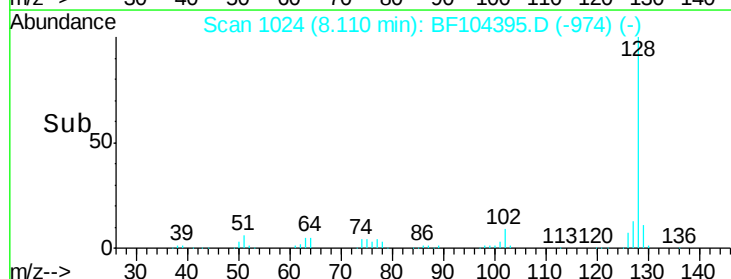
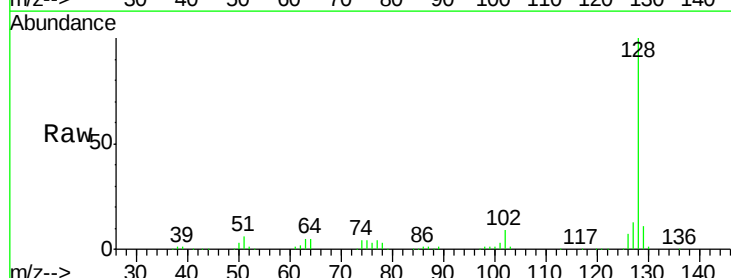
Instrument :
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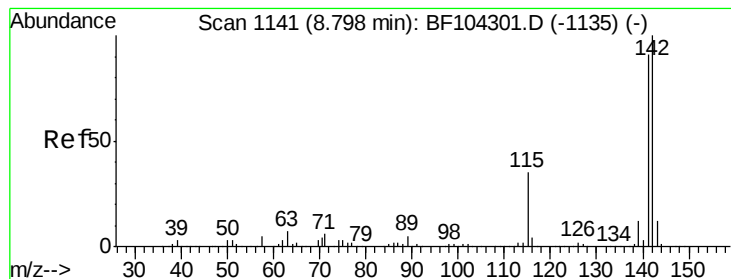
Tot Ion: 82 Resp: 29948
Ion Ratio Lower Upper
82 100
128 42.9 36.1 54.1
54 44.5 41.4 62.2



#31
Naphthalene
Concen: 13.095 ng
RT: 8.11 min Scan# 1024
Delta R.T. -0.01 min
Lab File: BF104395.D
Acq: 10 Apr 2018 2:18

Tgt Ion: 128 Resp: 283437
Ion Ratio Lower Upper
128 100
129 11.2 8.8 13.2
127 13.2 10.9 16.3

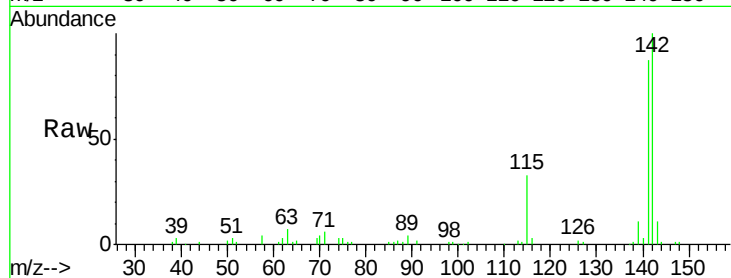




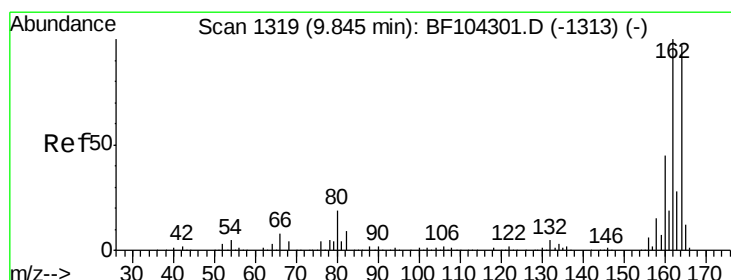
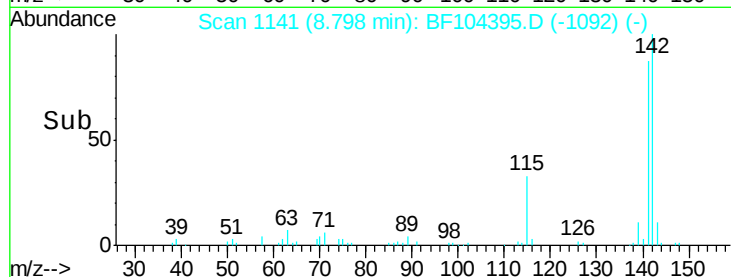
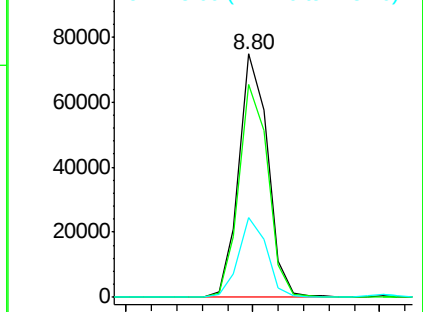
#37
2-Methylnaphthalene
Concen: 4.246 ng
RT: 8.80 min Scan# 1141
Delta R.T. -0.01 min
Lab File: BF104395.D
Acq: 10 Apr 2018 2:18

Instrument :
BNA_F
ClientSampleId :
SB-3-1(1-3)DL

Tot Ion:142 Resp: 59445
Ion Ratio Lower Upper
142 100
141 87.4 70.8 106.2
115 32.8 26.1 39.1

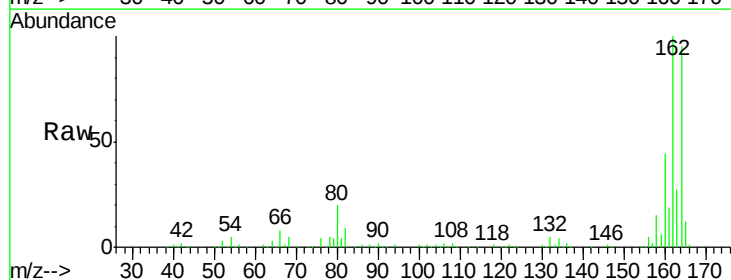


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

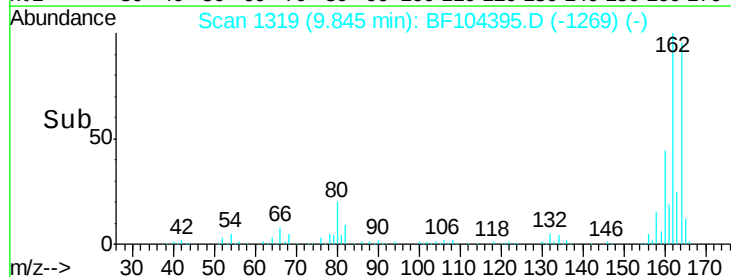
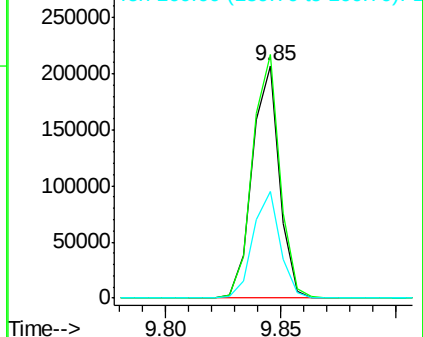


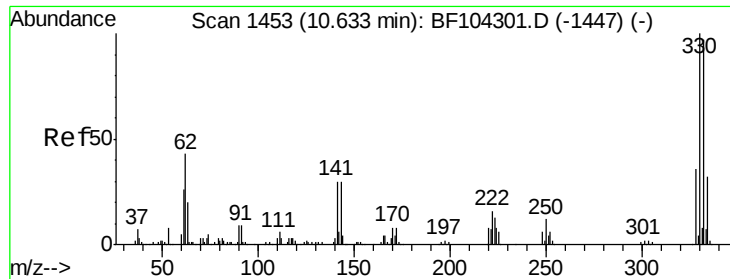
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF104395.D
Acq: 10 Apr 2018 2:18

Tgt Ion:164 Resp: 169588
Ion Ratio Lower Upper
164 100
162 104.9 86.1 129.1
160 46.2 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

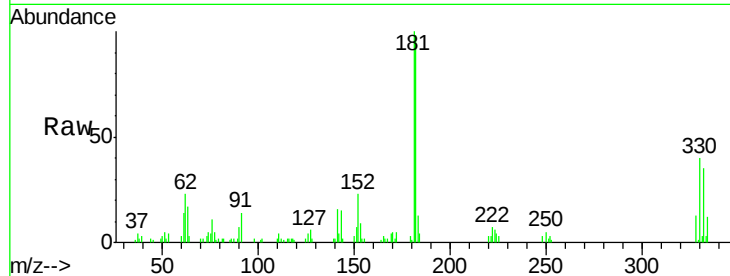




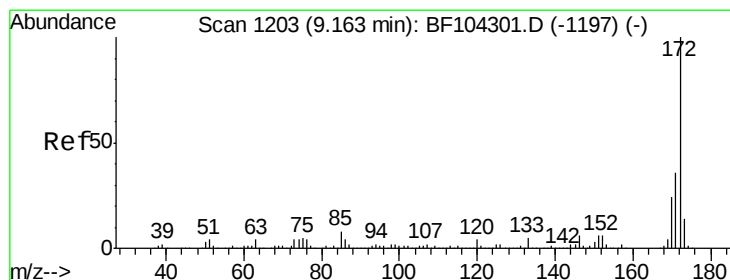
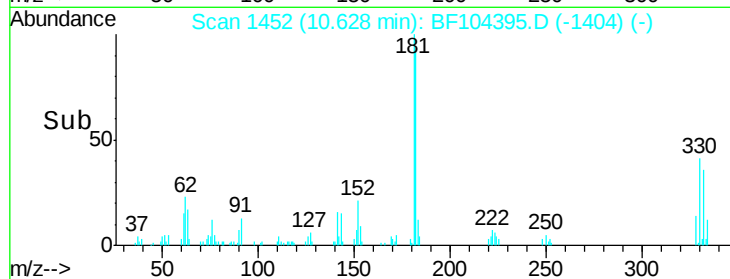
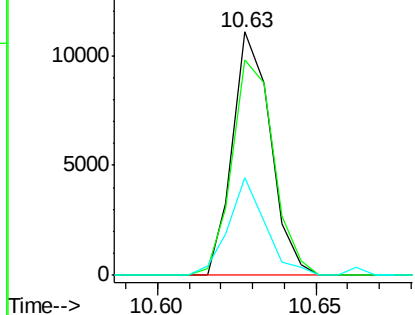
#41
 2,4,6-Tribromophenol
 Concen: 5.211 ng
 RT: 10.63 min Scan# 1452
 Delta R.T. -0.02 min
 Lab File: BF104395.D
 Acq: 10 Apr 2018 2:18

Instrument :
 BNA_F
 ClientSampleId :
 SB-3-1(1-3)DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.5	77.0	115.6
141	39.2	29.9	44.9

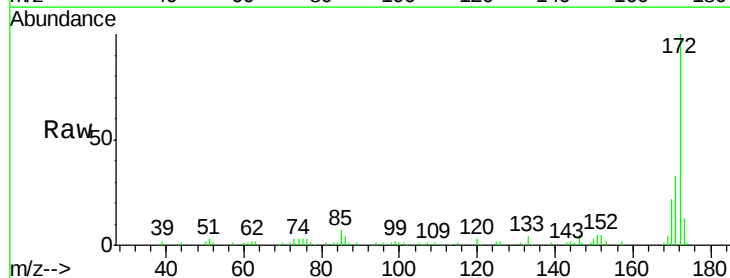


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

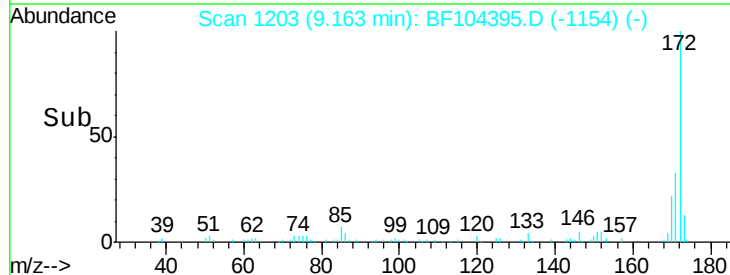
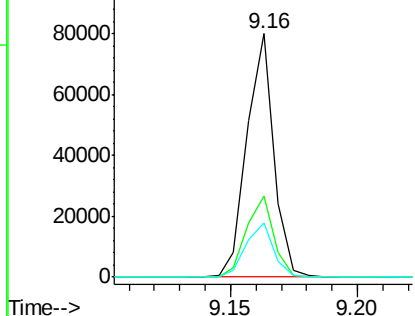


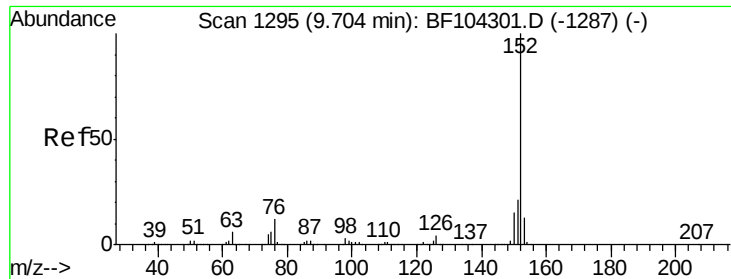
#44
 2-Fluorobiphenyl
 Concen: 5.492 ng
 RT: 9.16 min Scan# 1203
 Delta R.T. -0.01 min
 Lab File: BF104395.D
 Acq: 10 Apr 2018 2:18

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.4	29.7	44.5
170	22.5	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





#48

Acenaphthylene

Concen: 2.817 ng

RT: 9.70 min Scan# 1295

Delta R.T. -0.01 min

Lab File: BF104395.D

Acq: 10 Apr 2018 2:18

Instrument :

BNA_F

ClientSampleId :

SB-3-1(1-3)DL

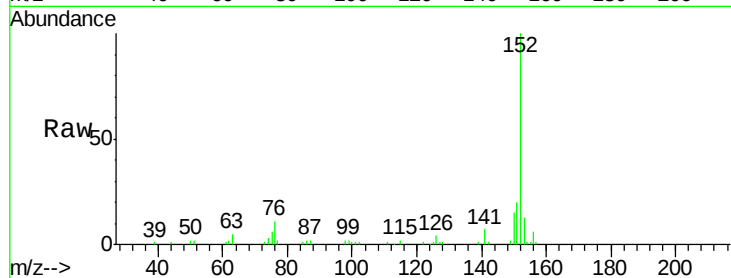
Tot Ion:152 Resp: 49727

Ion Ratio Lower Upper

152 100

151 20.0 16.3 24.5

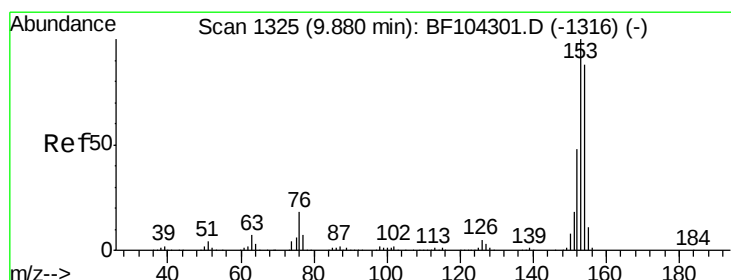
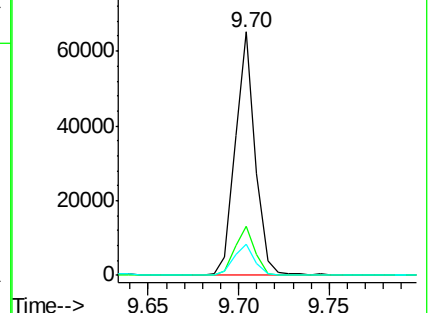
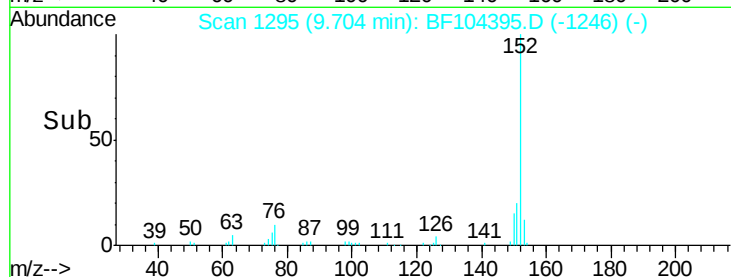
153 13.0 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#51

Acenaphthene

Concen: 8.108 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.01 min

Lab File: BF104395.D

Acq: 10 Apr 2018 2:18

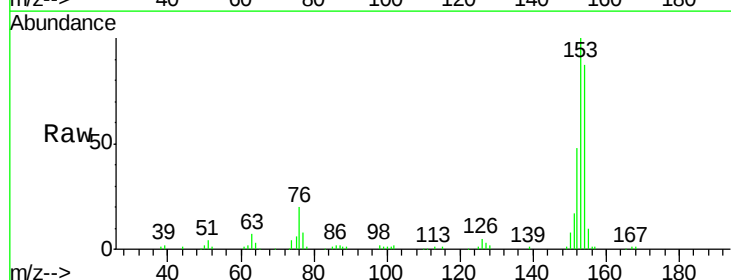
Tgt Ion:154 Resp: 87338

Ion Ratio Lower Upper

154 100

153 115.3 91.2 136.8

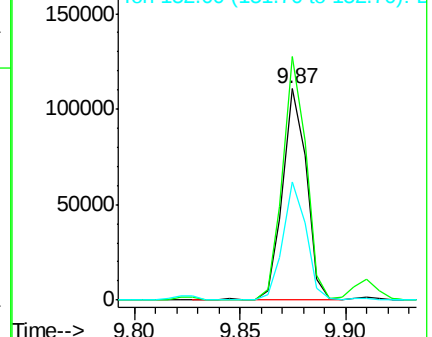
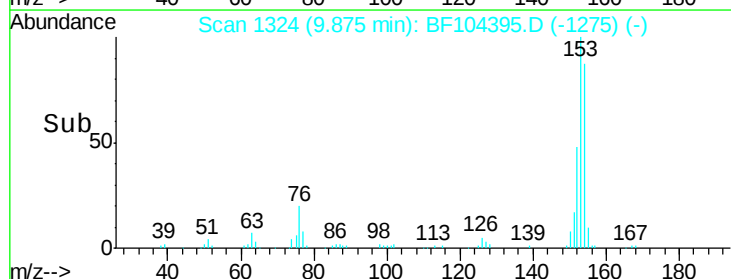
152 55.9 43.8 65.8

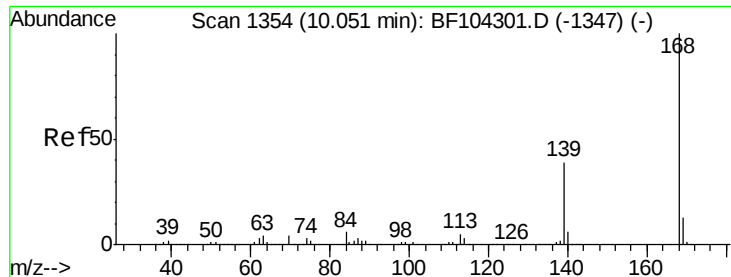


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

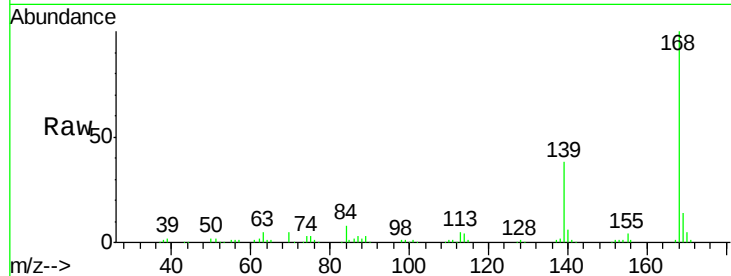




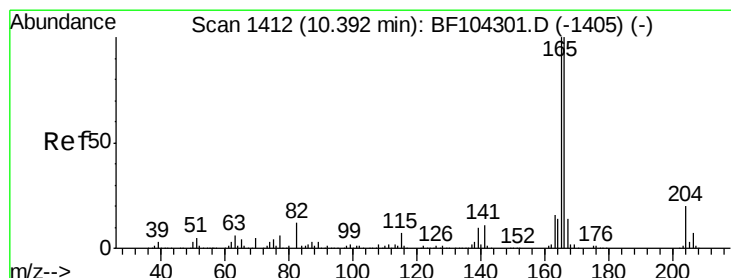
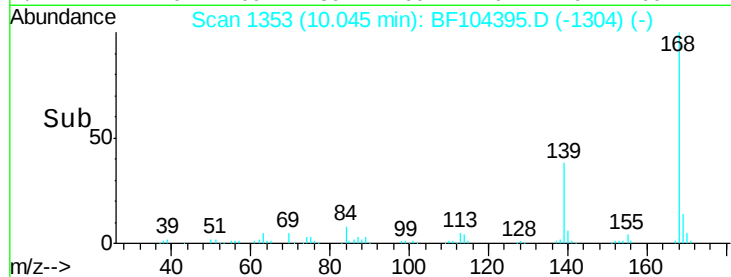
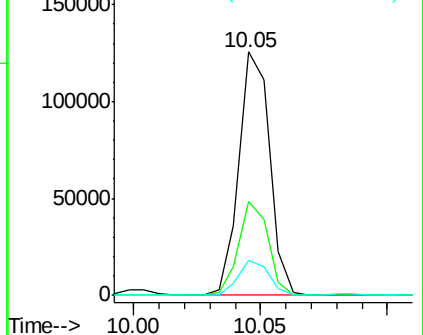
#54
Dibenzenofuran
Concen: 7.038 ng
RT: 10.05 min Scan# 1353
Delta R.T. -0.01 min
Lab File: BF104395.D
Acq: 10 Apr 2018 2:18

Instrument :
BNA_F
ClientSampleId :
SB-3-1(1-3)DL

Tot Ion:168 Resp: 105661
Ion Ratio Lower Upper
168 100
139 38.4 30.1 45.1
169 14.1 10.9 16.3

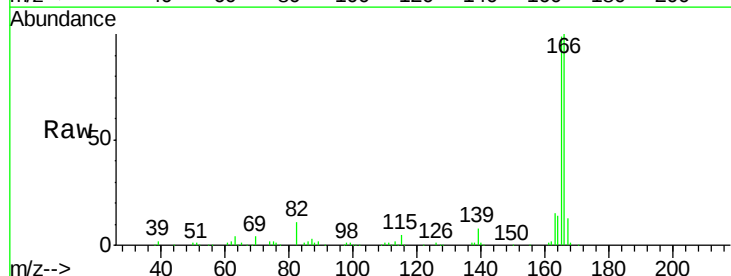


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

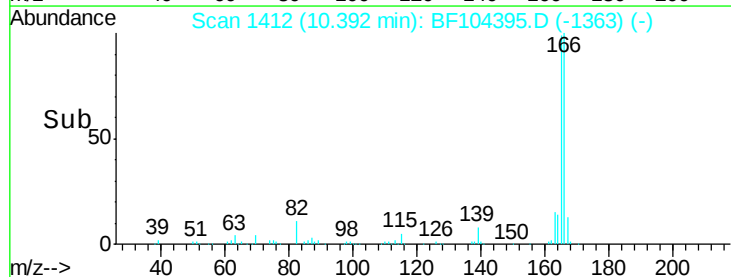
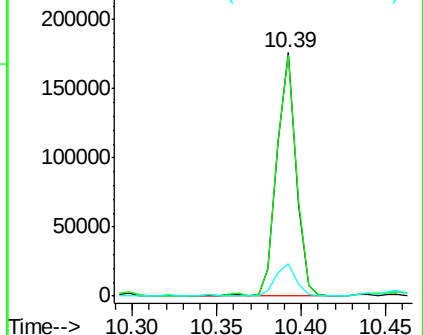


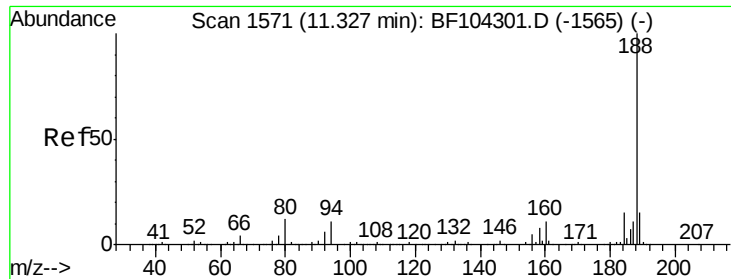
#57
Fluorene
Concen: 12.560 ng
RT: 10.39 min Scan# 1412
Delta R.T. -0.01 min
Lab File: BF104395.D
Acq: 10 Apr 2018 2:18

Tgt Ion:166 Resp: 137249
Ion Ratio Lower Upper
166 100
165 99.2 79.8 119.8
167 13.5 10.6 16.0



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

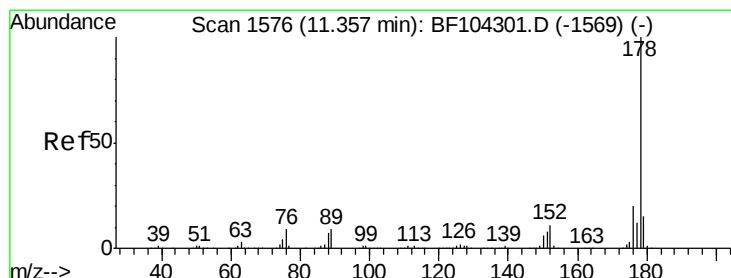
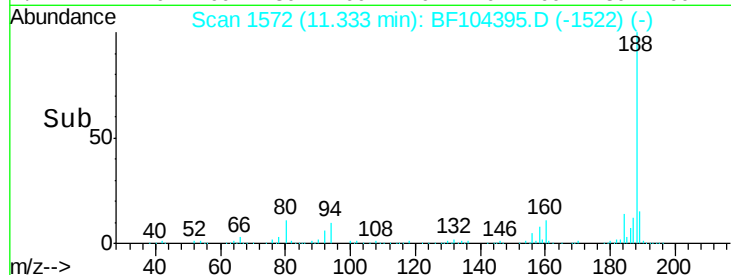
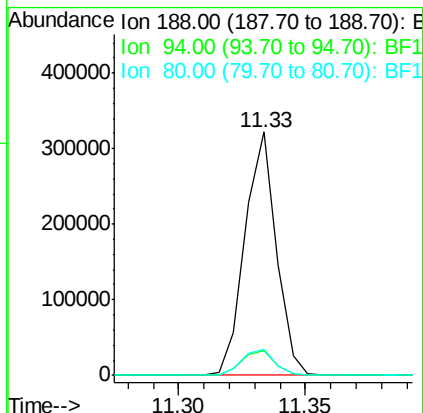
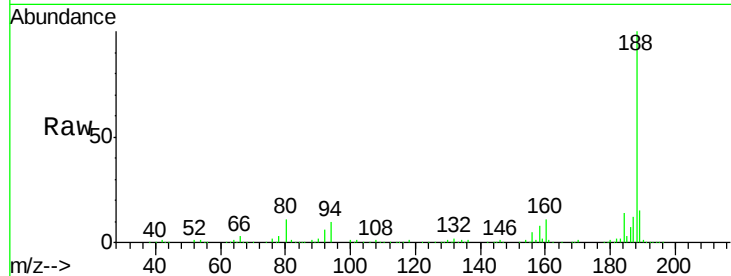




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1572
Delta R.T. -0.01 min
Lab File: BF104395.D
Acq: 10 Apr 2018 2:18

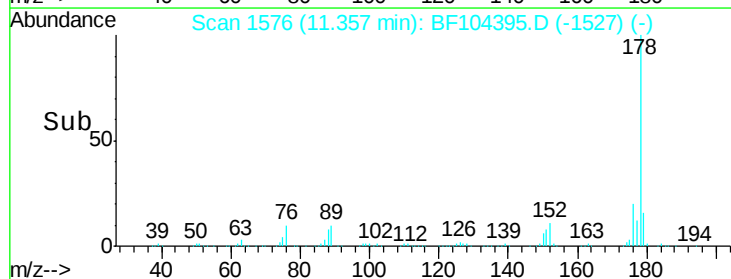
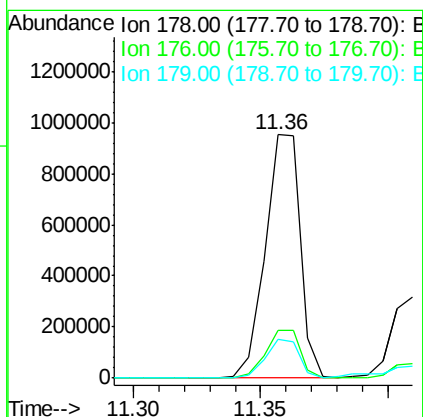
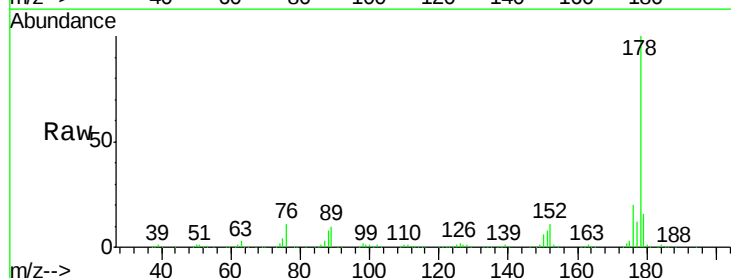
Instrument :
BNA_F
ClientSampleId :
SB-3-1(1-3)DL

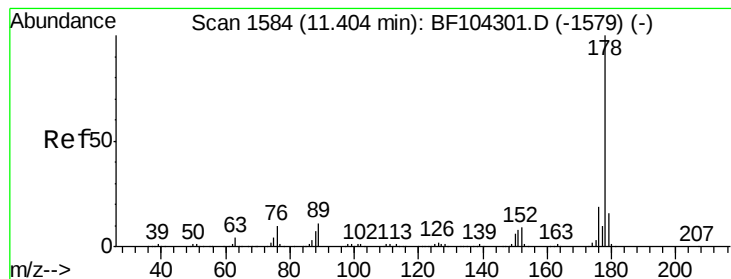
Tot Ion:188 Resp: 277479
Ion Ratio Lower Upper
188 100
94 10.2 8.5 12.7
80 10.7 9.2 13.8



#70
Phenanthrene
Concen: 59.696 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF104395.D
Acq: 10 Apr 2018 2:18

Tgt Ion:178 Resp: 922459
Ion Ratio Lower Upper
178 100
176 19.8 15.8 23.8
179 15.8 13.0 19.6





#71

Anthracene

Concen: 16.807 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF104395.D

Acq: 10 Apr 2018 2:18

Instrument :

BNA_F

ClientSampleId :

SB-3-1(1-3)DL

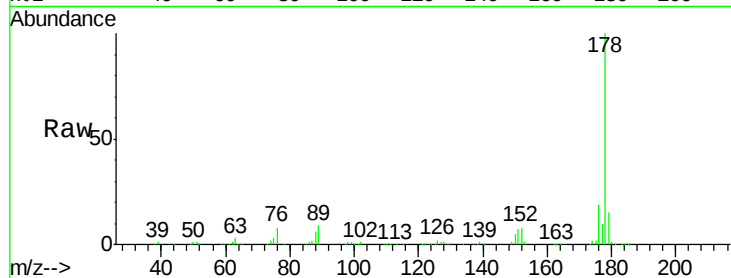
Tot Ion:178 Resp: 263995

Ion Ratio Lower Upper

178 100

176 18.6 15.4 23.2

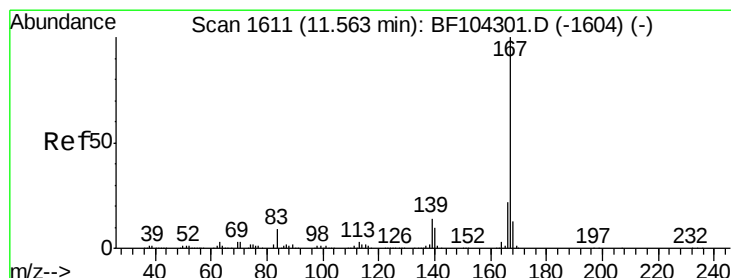
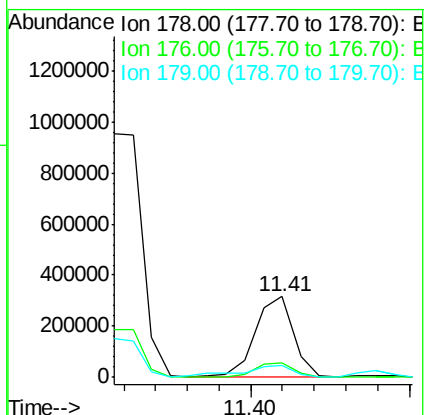
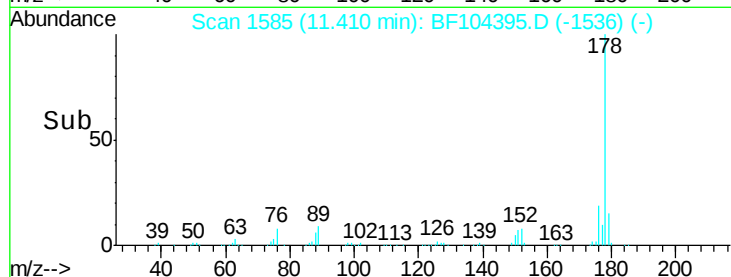
179 15.4 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 8.796 ng

RT: 11.56 min Scan# 1611

Delta R.T. -0.01 min

Lab File: BF104395.D

Acq: 10 Apr 2018 2:18

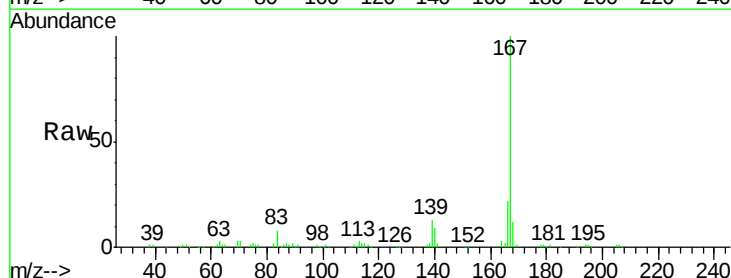
Tgt Ion:167 Resp: 135009

Ion Ratio Lower Upper

167 100

166 21.5 17.6 26.4

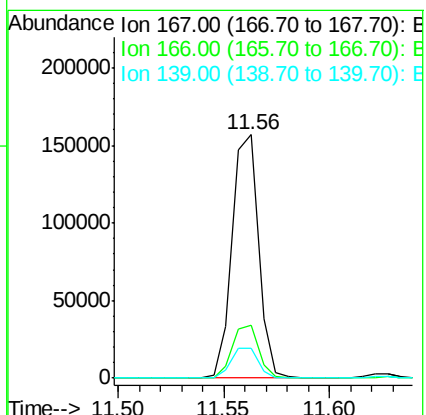
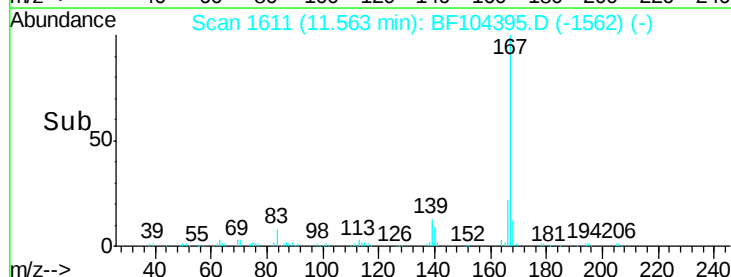
139 12.5 10.9 16.3

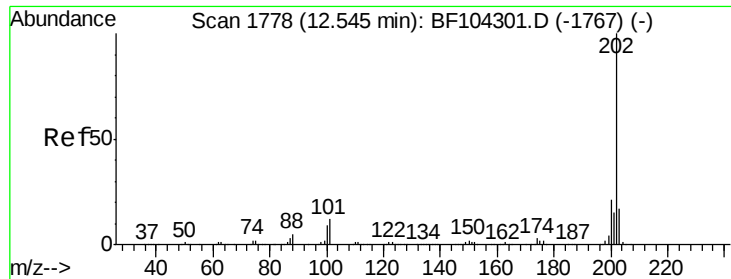


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 60.293 ng

RT: 12.55 min Scan# 1779

Delta R.T. -0.01 min

Lab File: BF104395.D

Acq: 10 Apr 2018 2:18

Instrument :

BNA_F

ClientSampleId :

SB-3-1(1-3)DL

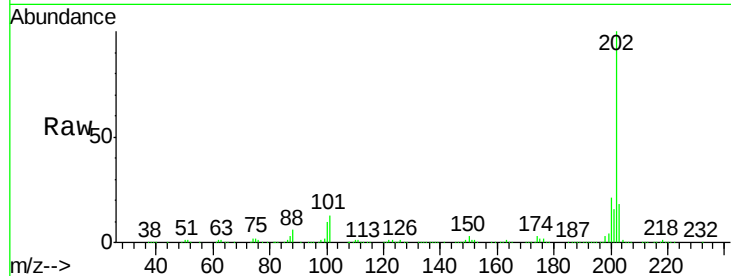
Tot Ion:202 Resp: 973425

Ion Ratio Lower Upper

202 100

101 12.7 0.0 34.1

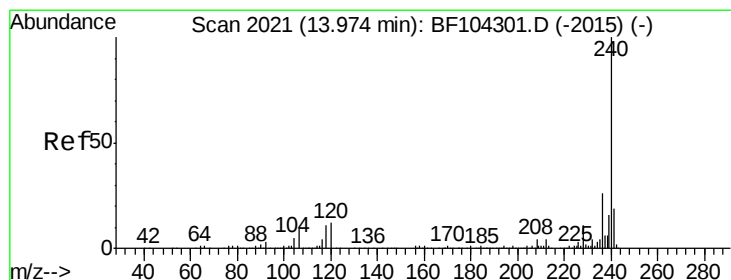
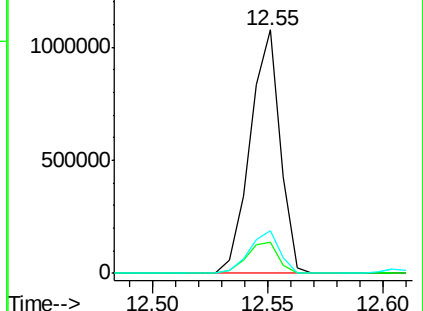
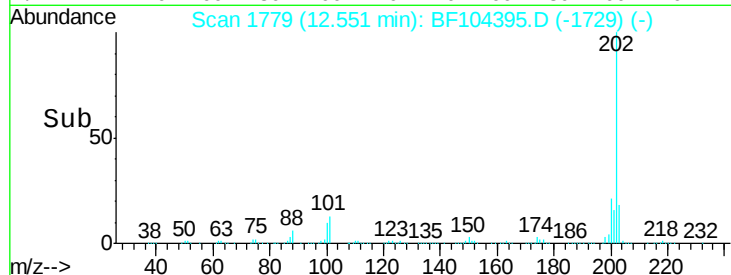
203 17.6 0.0 38.1



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: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF104395.D

Acq: 10 Apr 2018 2:18

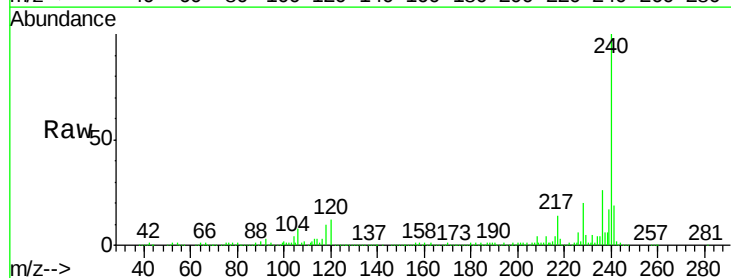
Tgt Ion:240 Resp: 276713

Ion Ratio Lower Upper

240 100

120 11.9 9.5 14.3

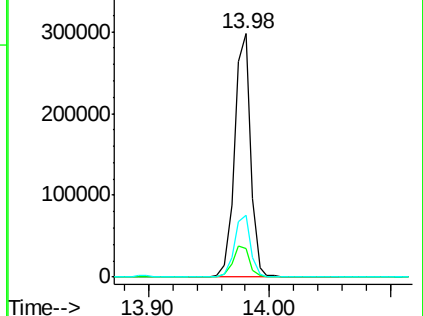
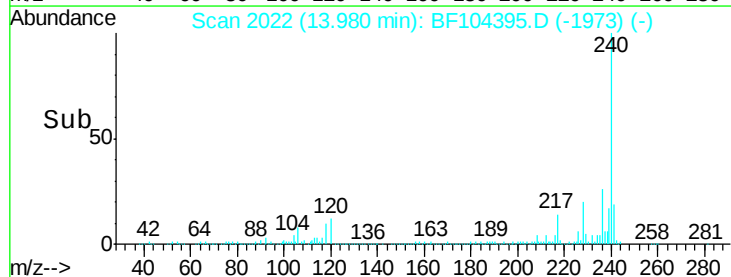
236 25.5 20.7 31.1

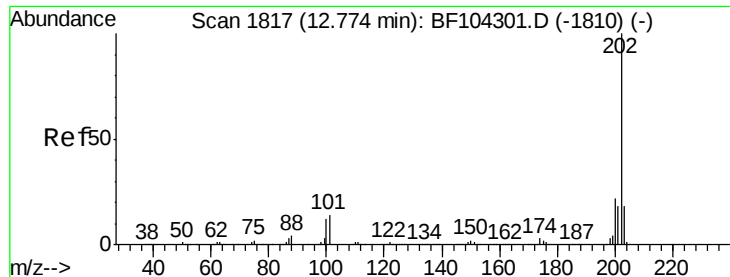


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 39.564 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.01 min

Lab File: BF104395.D

Acq: 10 Apr 2018 2:18

Instrument :

BNA_F

ClientSampleId :

SB-3-1(1-3)DL

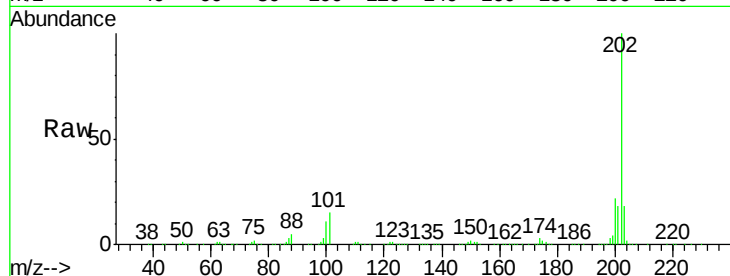
Tot Ion:202 Resp: 811492

Ion Ratio Lower Upper

202 100

200 21.6 17.4 26.2

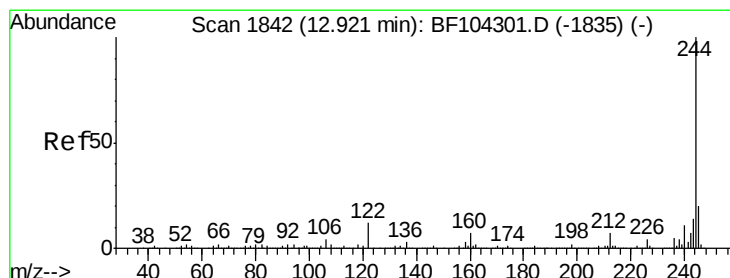
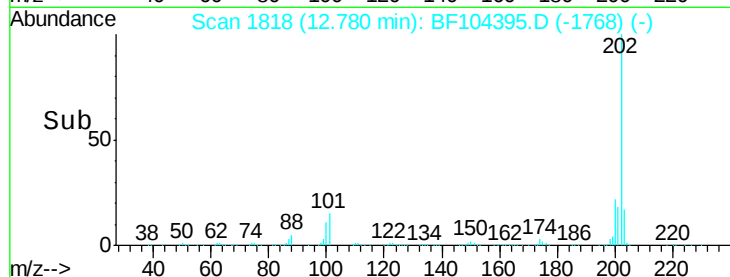
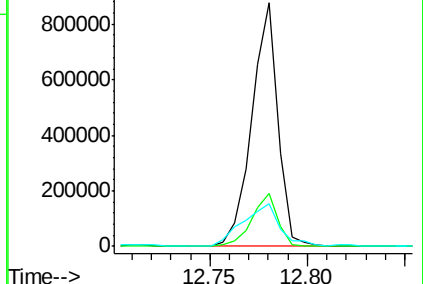
203 17.7 14.3 21.5



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: 4.215 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.02 min

Lab File: BF104395.D

Acq: 10 Apr 2018 2:18

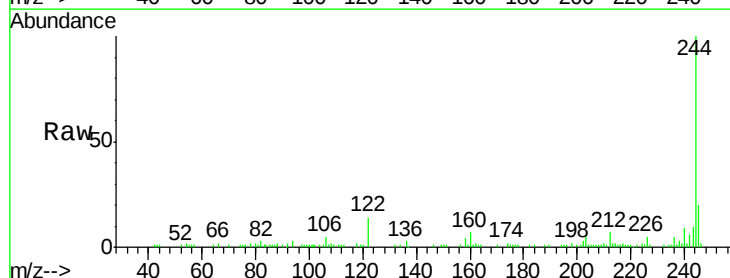
Tgt Ion:244 Resp: 51158

Ion Ratio Lower Upper

244 100

212 7.5 5.4 8.0

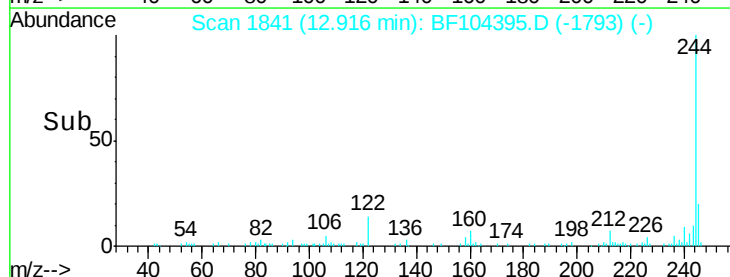
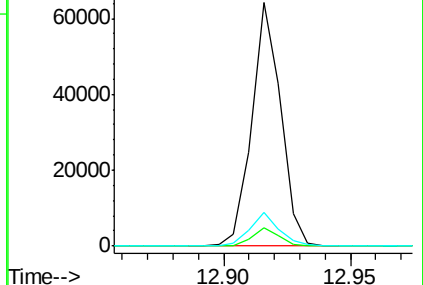
122 13.7 11.0 16.4

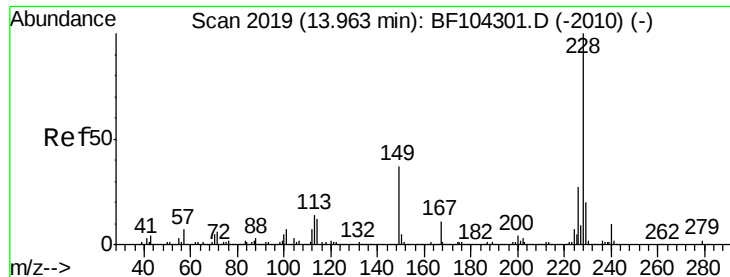


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 26.651 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF104395.D

Acq: 10 Apr 2018 2:18

Instrument :

BNA_F

ClientSampleId :

SB-3-1(1-3)DL

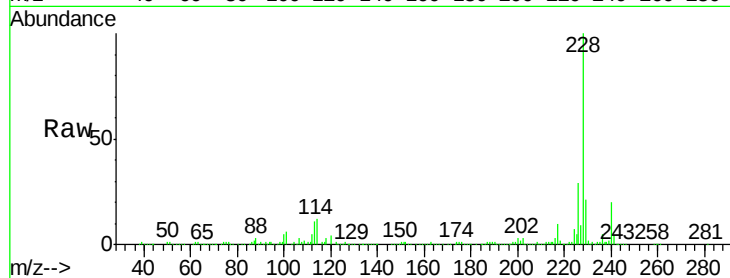
Tot Ion:228 Resp: 440568

Ion Ratio Lower Upper

228 100

226 28.8 22.6 33.8

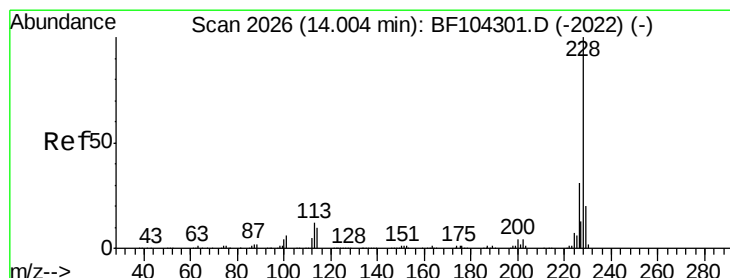
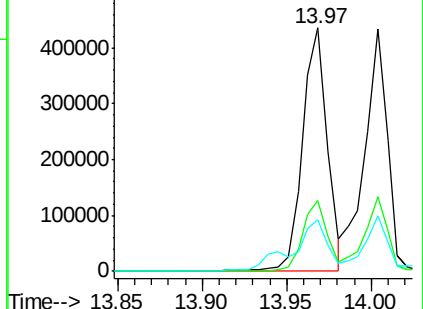
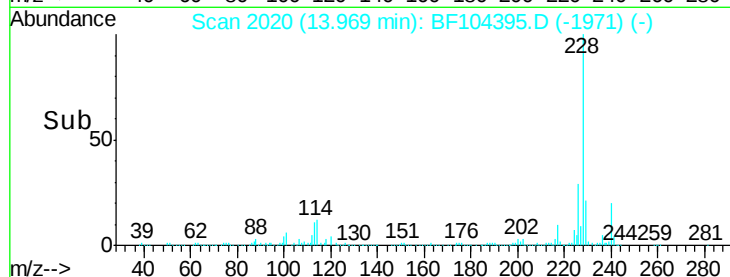
229 21.0 15.8 23.6



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: 23.561 ng m

RT: 14.00 min Scan# 2026

Delta R.T. -0.02 min

Lab File: BF104395.D

Acq: 10 Apr 2018 2:18

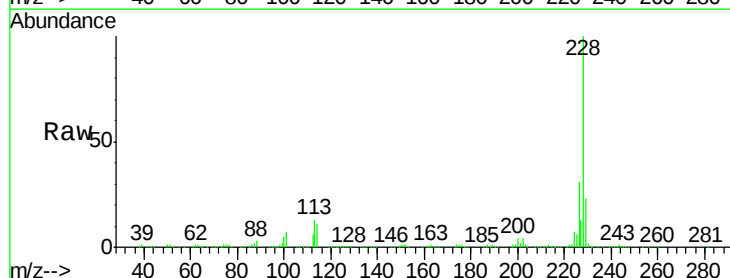
Tgt Ion:228 Resp: 400067

Ion Ratio Lower Upper

228 100

226 30.5 25.0 37.6

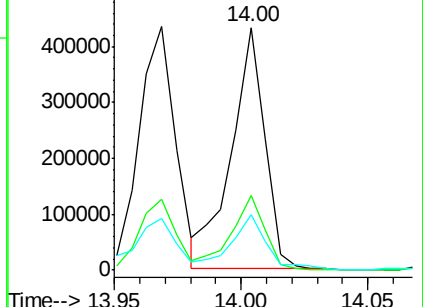
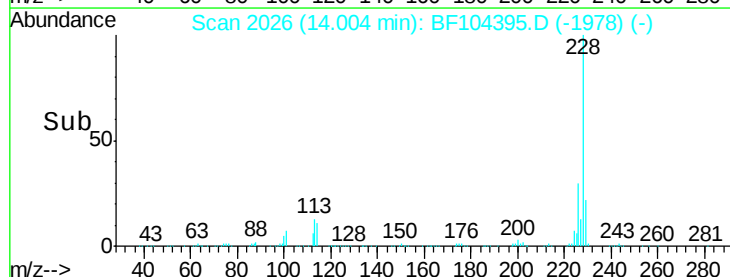
229 22.7 16.2 24.4

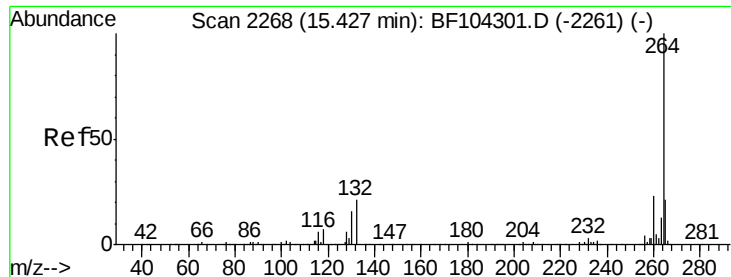


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

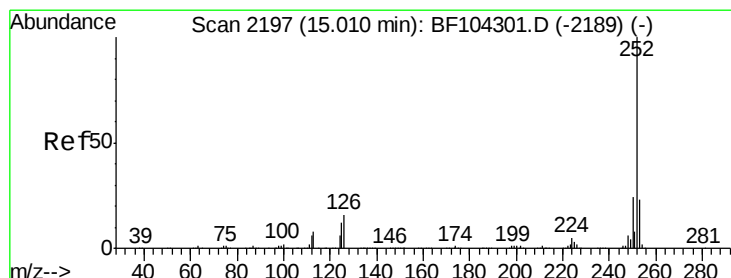
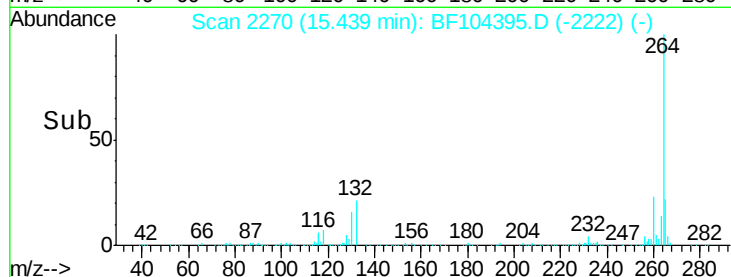
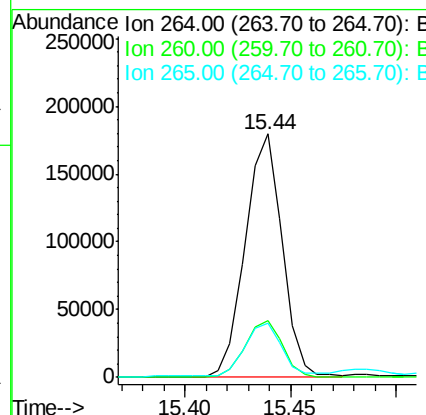
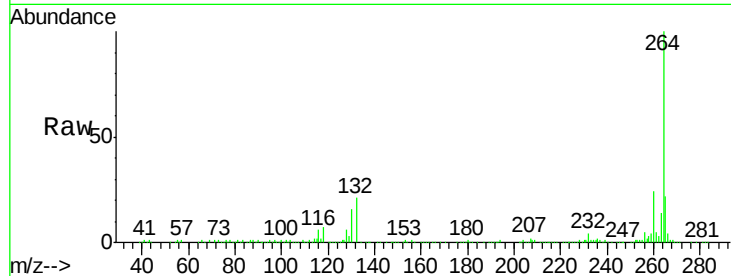




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2270
Delta R.T. -0.02 min
Lab File: BF104395.D
Acq: 10 Apr 2018 2:18

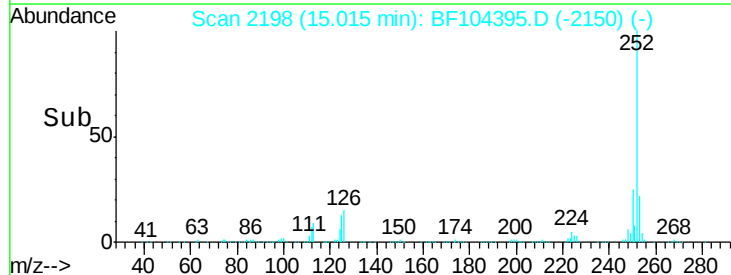
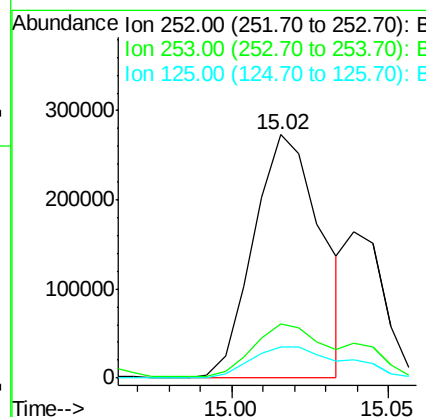
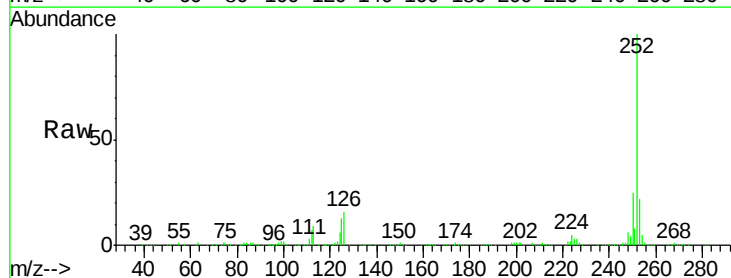
Instrument :
BNA_F
ClientSampleId :
SB-3-1(1-3)DL

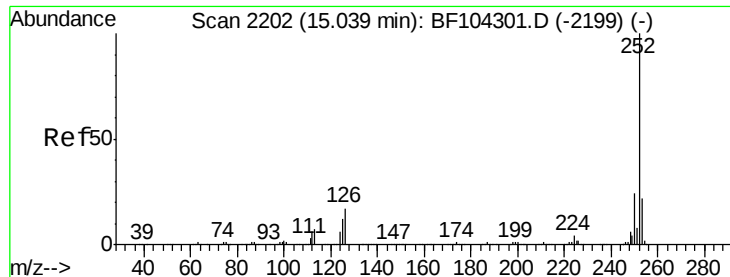
Tot Ion:264 Resp: 217808
Ion Ratio Lower Upper
264 100
260 23.5 19.2 28.8
265 22.3 17.5 26.3



#87
Benzo(b)fluoranthene
Concen: 29.889 ng m
RT: 15.02 min Scan# 2198
Delta R.T. -0.02 min
Lab File: BF104395.D
Acq: 10 Apr 2018 2:18

Tgt Ion:252 Resp: 411168
Ion Ratio Lower Upper
252 100
253 22.4 17.0 25.6
125 13.0 9.0 13.6

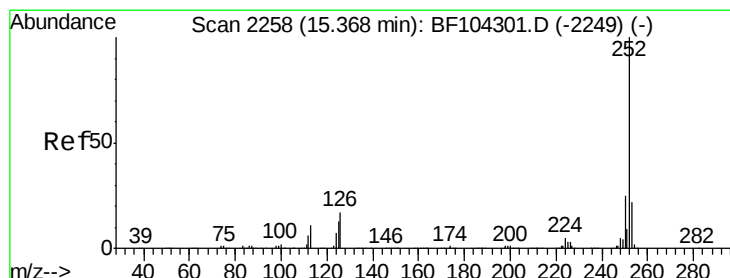
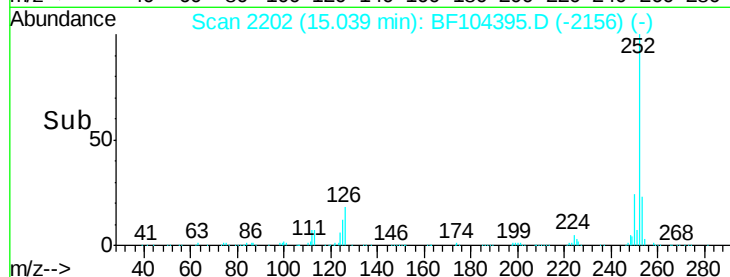
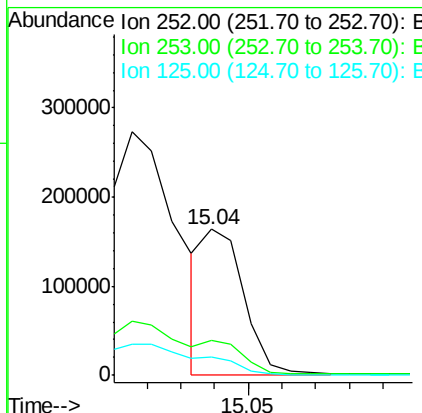
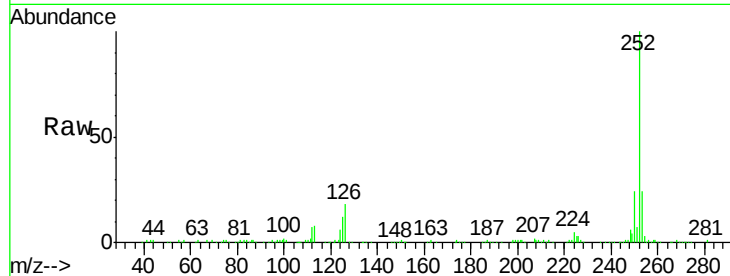




#88
Benzo(k)fluoranthene
Concen: 10.515 ng m
RT: 15.04 min Scan# 2202
Delta R.T. -0.03 min
Lab File: BF104395.D
Acq: 10 Apr 2018 2:18

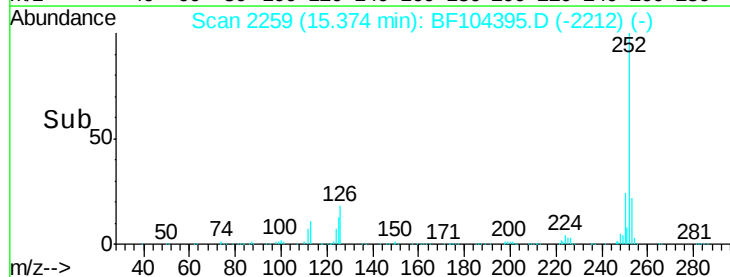
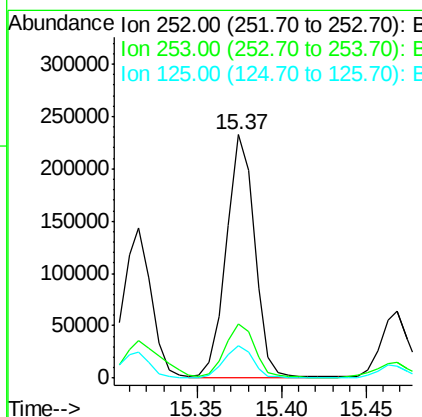
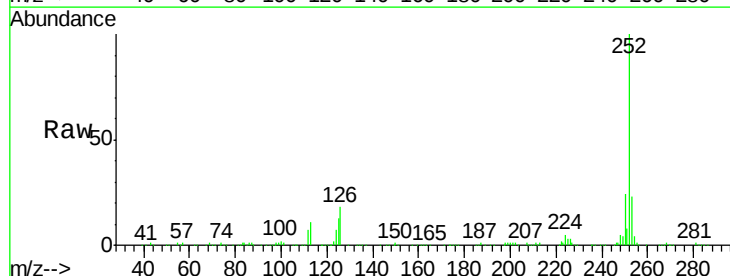
Instrument :
BNA_F
ClientSampleId :
SB-3-1(1-3)DL

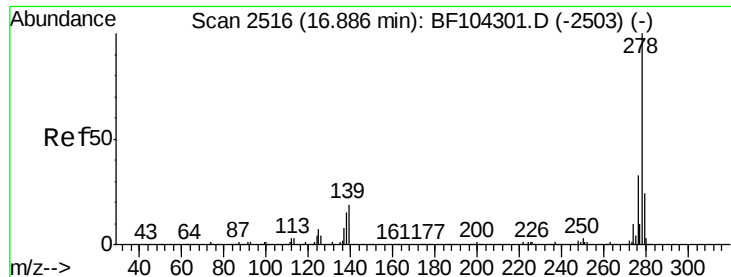
Tot Ion:252 Resp: 136560
Ion Ratio Lower Upper
252 100
253 23.7 17.9 26.9
125 12.2 10.2 15.2



#89
Benzo(a)pyrene
Concen: 21.871 ng
RT: 15.37 min Scan# 2259
Delta R.T. -0.02 min
Lab File: BF104395.D
Acq: 10 Apr 2018 2:18

Tgt Ion:252 Resp: 269196
Ion Ratio Lower Upper
252 100
253 22.5 17.1 25.7
125 13.3 9.8 14.6





#90

Dibenzo(a,h)anthracene

Concen: 3.635 ng

RT: 16.89 min Scan# 2516

Delta R.T. -0.05 min

Lab File: BF104395.D

Acq: 10 Apr 2018 2:18

Instrument :

BNA_F

ClientSampleId :

SB-3-1(1-3)DL

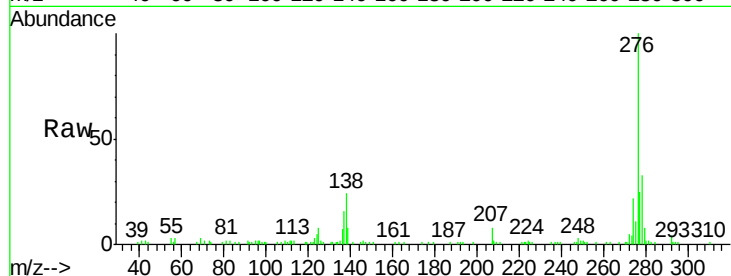
Tot Ion:278 Resp: 36745

Ion Ratio Lower Upper

278 100

139 23.4 15.9 23.9

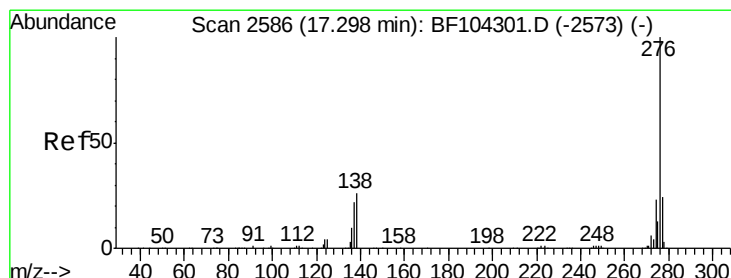
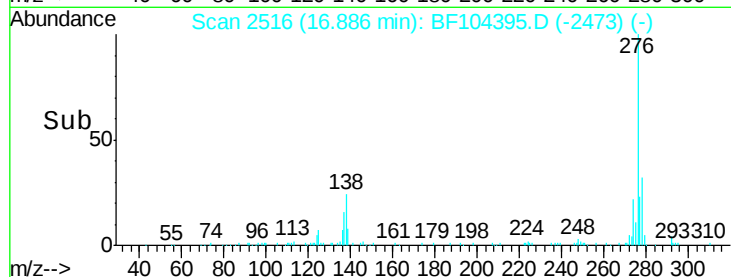
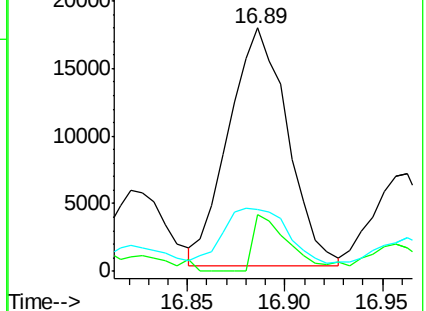
279 25.4 19.0 28.4



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 12.122 ng

RT: 17.31 min Scan# 2588

Delta R.T. -0.05 min

Lab File: BF104395.D

Acq: 10 Apr 2018 2:18

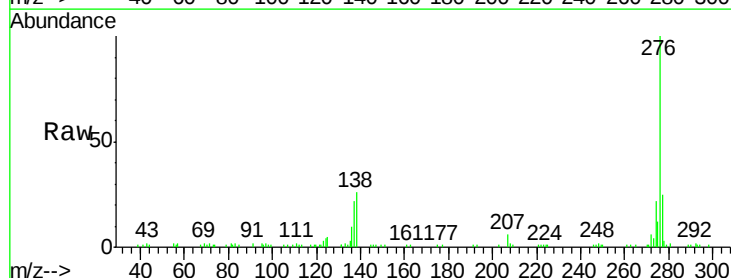
Tgt Ion:276 Resp: 118724

Ion Ratio Lower Upper

276 100

277 24.9 17.9 26.9

138 25.5 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

