

Data File : BF093166.D
Acq On : 25 Feb 2017 1:22
Operator : SJ/MA
Sample : I1954-14RE
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CLP-S-03(0-5)-D

Quant Time: Feb 25 02:25:08 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 17 17:31:55 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	162598	20.00	ng	-0.02
21) Naphthalene-d8	8.12	136	627234	20.00	ng	-0.02
38) Acenaphthene-d10	9.88	164	300773	20.00	ng	-0.01
63) Phenanthrene-d10	11.36	188	532701	20.00	ng	-0.02
75) Chrysene-d12	14.00	240	352030	20.00	ng	-0.02
86) Perylene-d12	15.44	264	287649	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.42	112	1175620	124.04	ng	-0.02
7) Phenol-d6	6.48	99	1496261	122.70	ng	-0.01
23) Nitrobenzene-d5	7.40	82	861212	76.46	ng	-0.02
41) 2,4,6-Tribromophenol	10.67	330	279460	128.47	ng	-0.01
44) 2-Fluorobiphenyl	9.21	172	1489123	89.70	ng	-0.01
78) Terphenyl-d14	12.95	244	1141518	76.19	ng	-0.02

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.49	94	74896	5.25	ng	# 68
19) n-Nitroso-di-n-propylamine	7.40	70	115275	14.85	ng	# 80
25) Isophorone	7.40	82	710157	33.84	ng	# 65
49) Dimethylphthalate	9.60	163	182309	9.00	ng	99
56) 2,4-Dinitrotoluene	9.87	165	37732	6.48	ng	# 19
64) 4,6-Dinitro-2-methylphenol	10.67	198	860	2.92	ng	# 1
66) 4-Bromophenyl-phenylether	10.67	248	21402	3.85	ng	# 1
70) Phenanthrene	11.38	178	285878	9.37	ng	98
71) Anthracene	11.44	178	71431	2.33	ng	97
74) Fluoranthene	12.57	202	430122	13.66	ng	95
77) Pyrene	12.80	202	396341	15.04	ng	99
80) Benzo(a)anthracene	13.99	228	173758	8.07	ng	99
82) Chrysene	13.99	228	173758	8.62	ng	97
85) Indeno(1,2,3-cd)pyrene	16.83	276	71613	4.59	ng	95
87) Benzo(b)fluoranthene	15.03	252	196343	10.37	ng	99
88) Benzo(k)fluoranthene	15.03	252	196343	12.01	ng	98
89) Benzo(a)pyrene	15.37	252	107961	6.59	ng	98
91) Benzo(g,h,i)perylene	17.25	276	74166	5.55	ng	# 91

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

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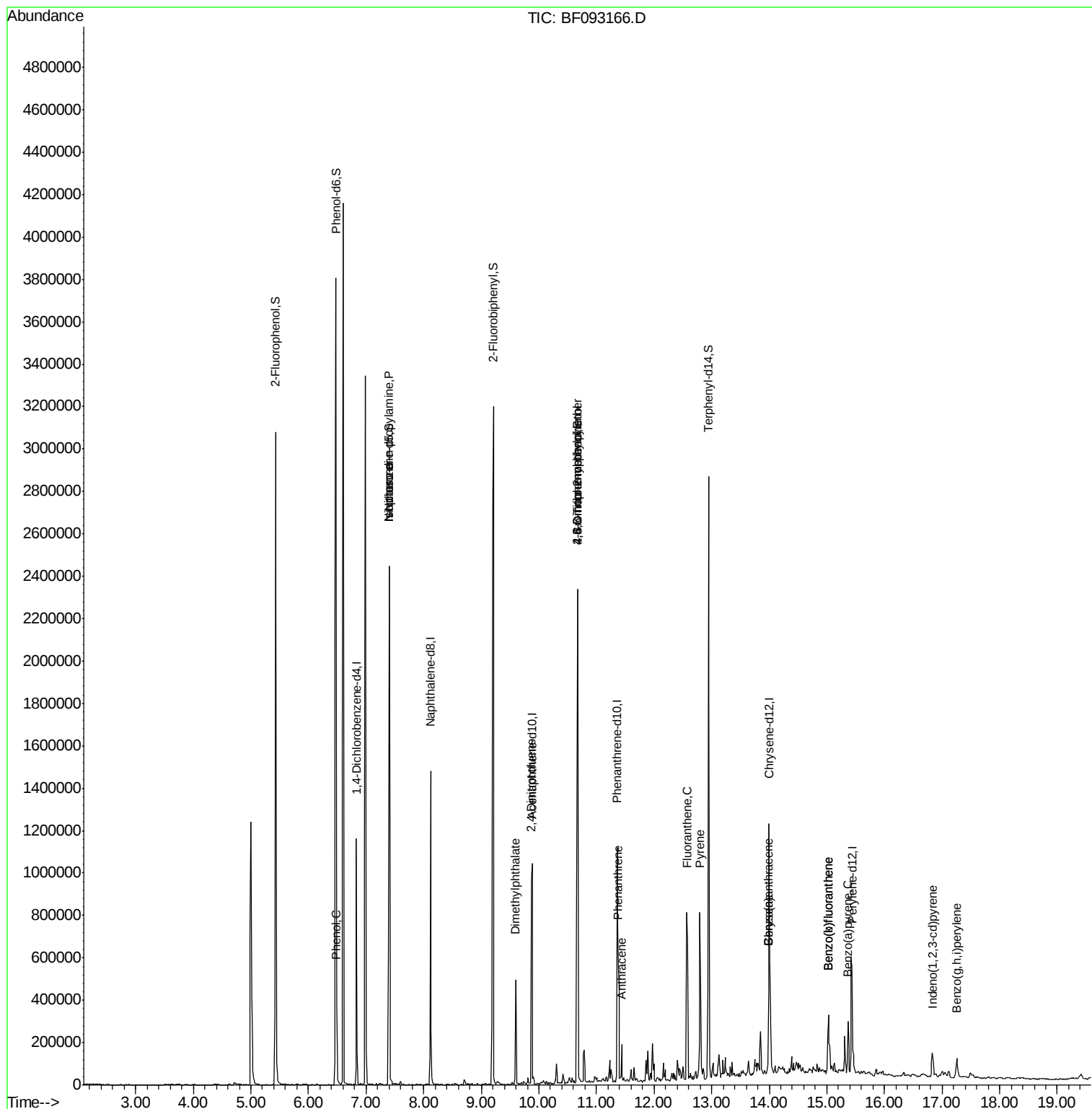
Quant Time: Feb 25 02:25:08 2017

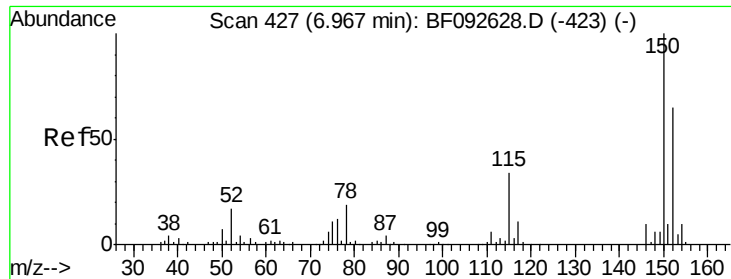
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.83 min Scan# 415

Delta R.T. -0.02 min

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Instrument :

BNA_F

ClientSampleId :

CLP-S-03(0-5)-D

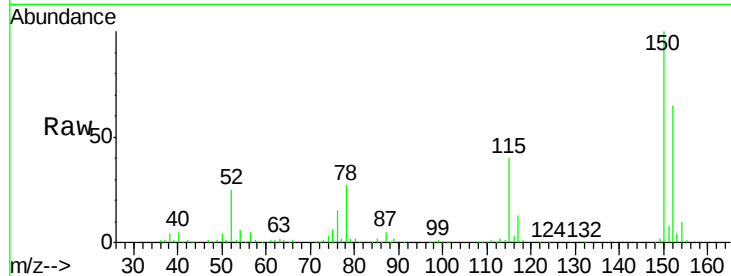
Tgt Ion:152 Resp: 162598

Ion Ratio Lower Upper

152 100

150 153.3 124.9 187.3

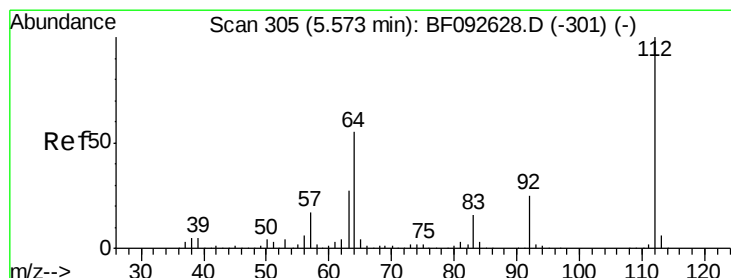
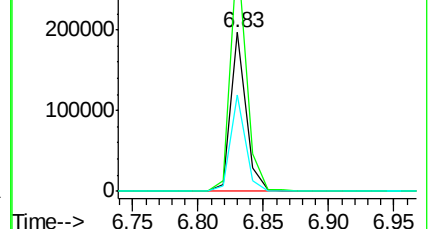
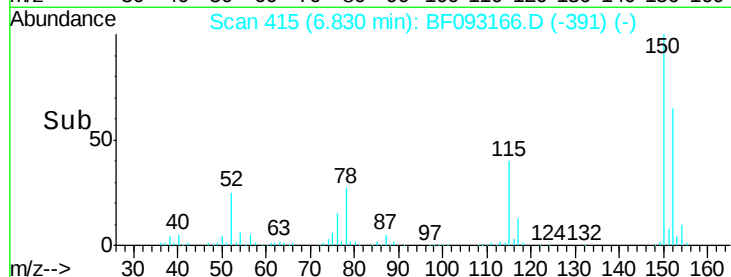
115 60.6 46.0 69.0



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: 124.04 ng

RT: 5.42 min Scan# 292

Delta R.T. -0.02 min

Lab File: BF093166.D

Acq: 25 Feb 2017 1:22

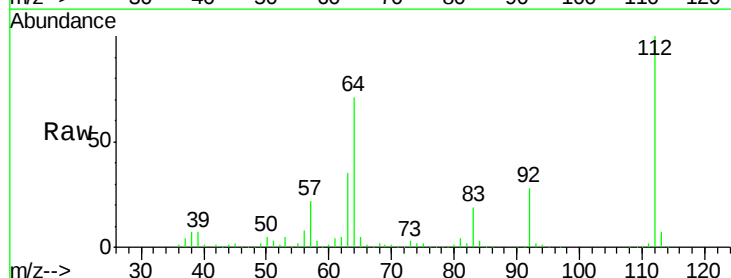
Tgt Ion:112 Resp: 1175620

Ion Ratio Lower Upper

112 100

64 70.7 46.1 69.1#

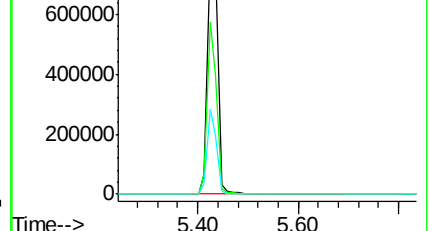
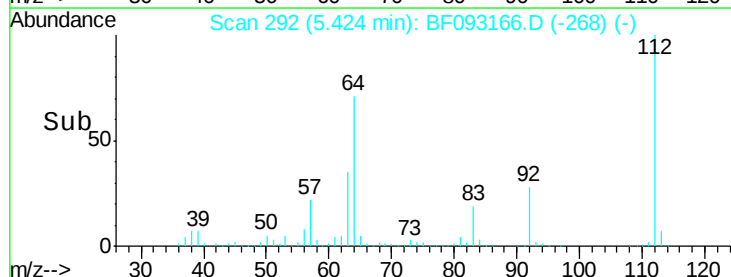
63 34.6 23.8 35.6

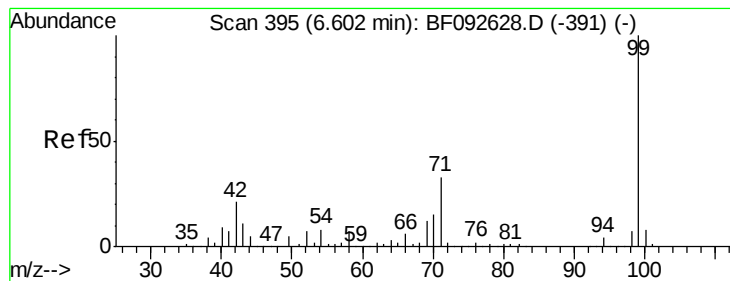


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 122.70 ng

RT: 6.48 min Scan# 384

Delta R.T. -0.01 min

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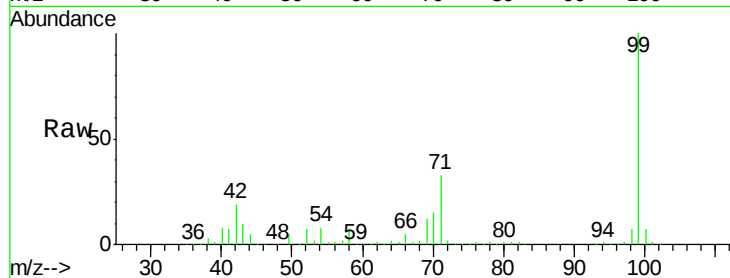
Tgt Ion: 99 Resp: 1496261

Ion Ratio Lower Upper

99 100

42 19.4 15.6 23.4

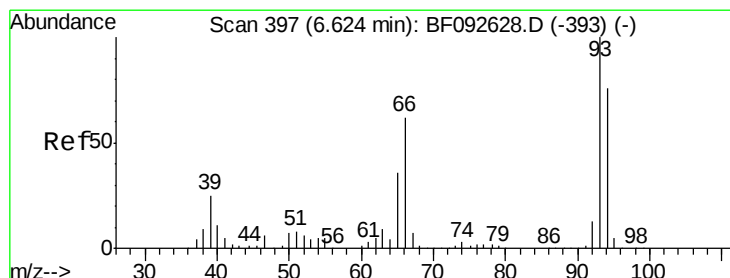
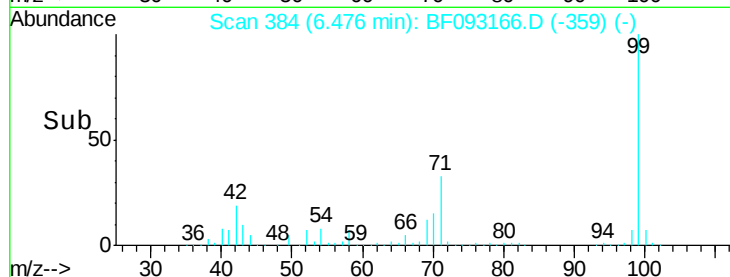
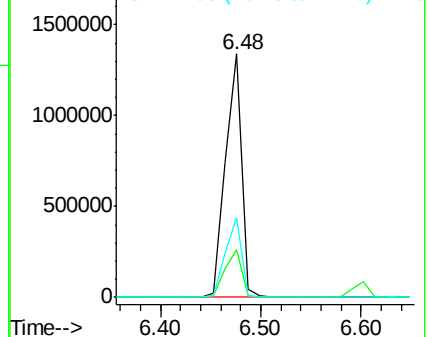
71 32.6 27.5 41.3



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 5.25 ng

RT: 6.49 min Scan# 385

Delta R.T. -0.02 min

Lab File: BF093166.D

Acq: 25 Feb 2017 1:22

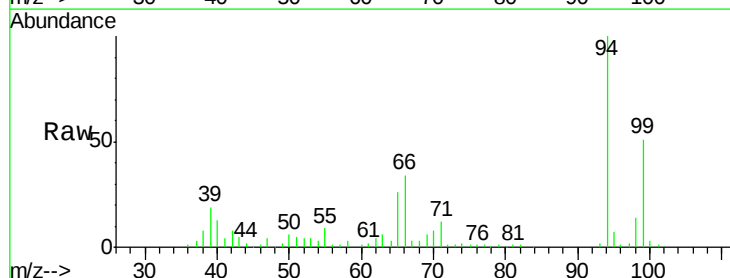
Tgt Ion: 94 Resp: 74896

Ion Ratio Lower Upper

94 100

65 26.3 21.4 61.4

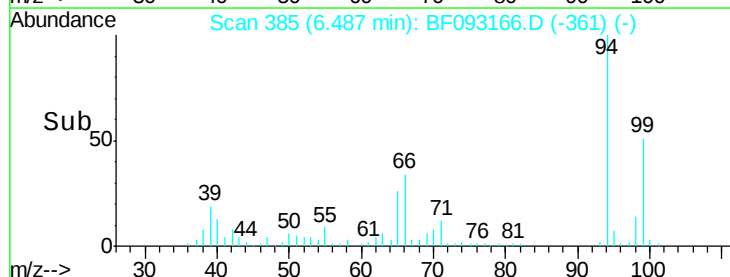
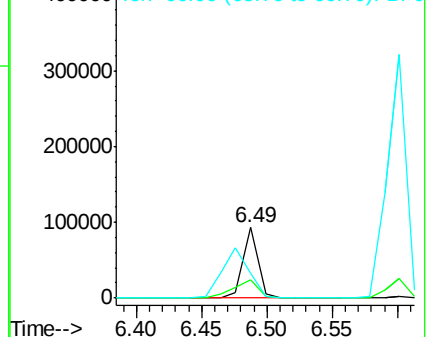
66 34.4 44.0 84.0#



Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

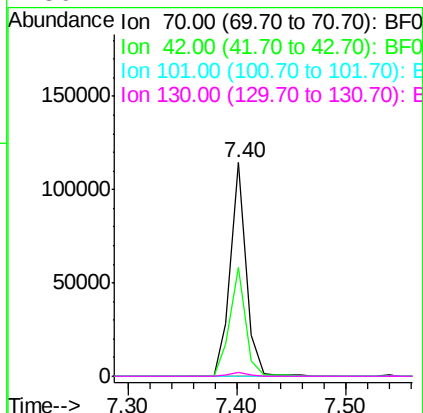
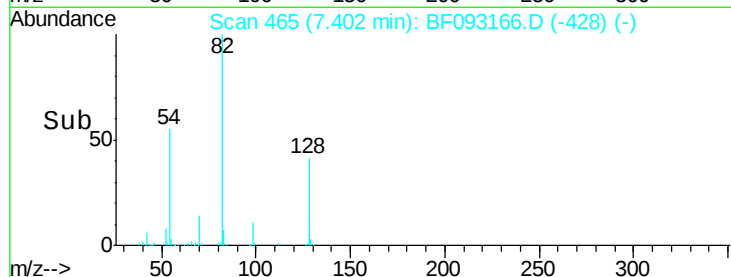
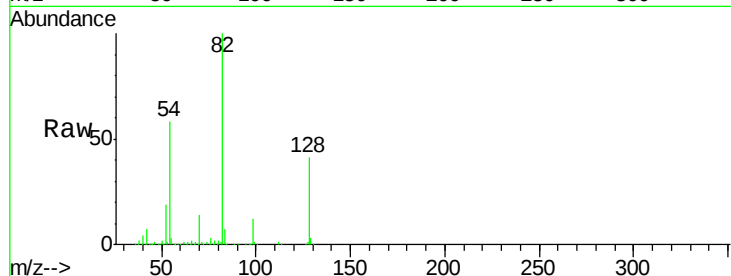




#19
n-Nitroso-di-n-propylamine
Concen: 14.85 ng
RT: 7.40 min Scan# 465
Delta R.T. 0.13 min
Lab File: BF093166.D
Acq: 25 Feb 2017 1:22

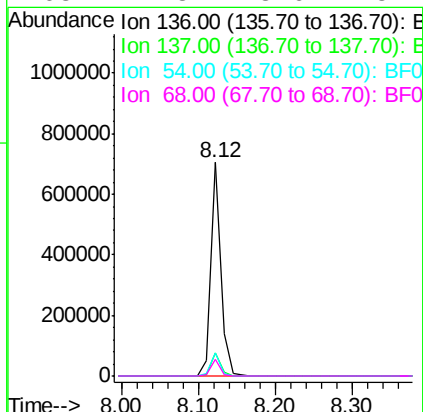
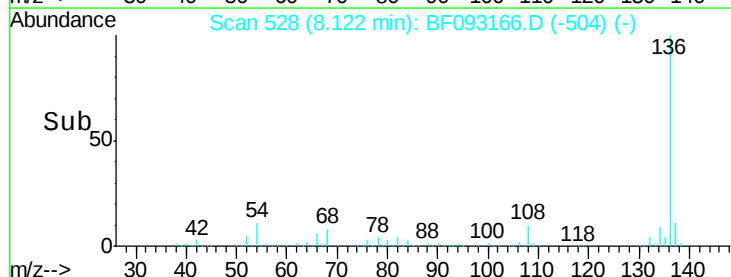
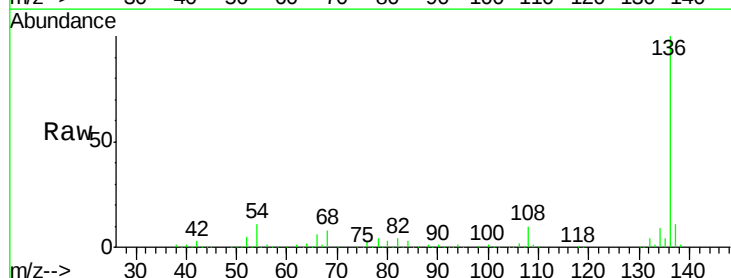
Instrument :
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CLP-S-03(0-5)-D

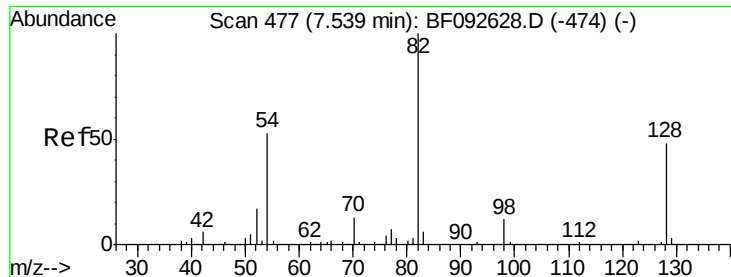
Tgt Ion: 70 Resp: 115275
Ion Ratio Lower Upper
70 100
42 50.8 49.4 74.0
101 0.0 7.4 11.2#
130 1.7 14.2 21.4#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.12 min Scan# 528
Delta R.T. -0.02 min
Lab File: BF093166.D
Acq: 25 Feb 2017 1:22

Tgt Ion: 136 Resp: 627234
Ion Ratio Lower Upper
136 100
137 10.9 8.4 12.6
54 11.1 4.5 6.7#
68 7.8 3.6 5.4#

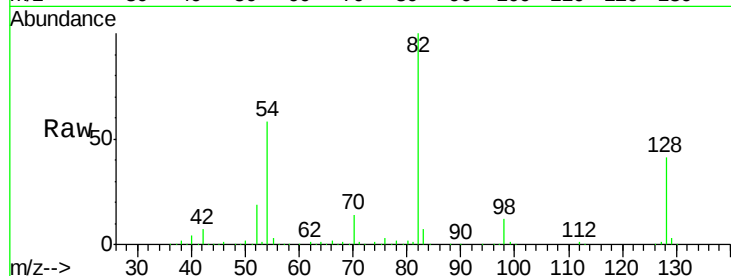




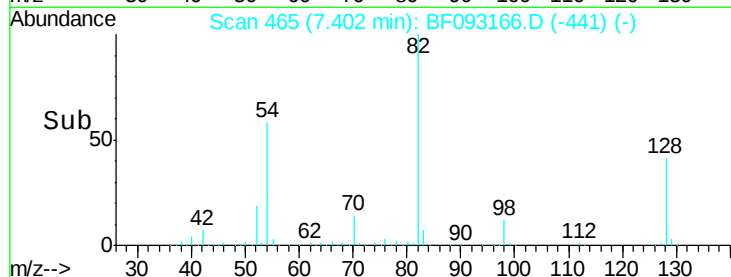
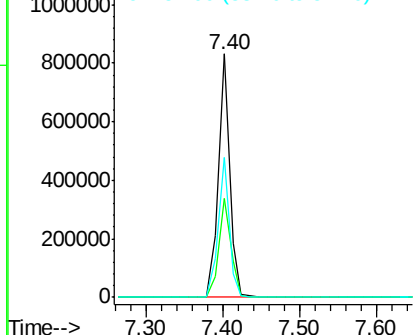
#23
 Nitrobenzene-d5
 Concen: 76.46 ng
 RT: 7.40 min Scan# 465
 Delta R.T. -0.02 min
 Lab File: BF093166.D
 Acq: 25 Feb 2017 1:22

Instrument :
 BNA_F
 ClientSampleId :
 CLP-S-03(0-5)-D

Tgt Ion: 82 Resp: 861212
 Ion Ratio Lower Upper
 82 100
 128 40.9 34.6 52.0
 54 57.6 39.5 59.3

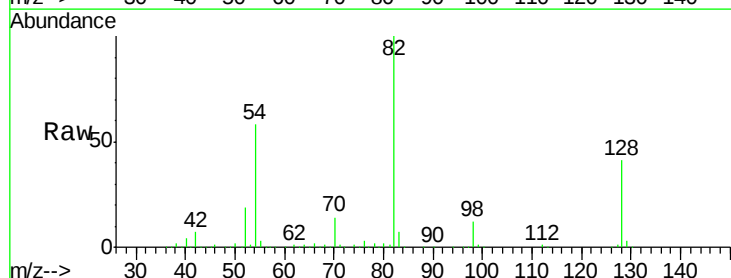


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): BF0
 Ion 54.00 (53.70 to 54.70): BF0

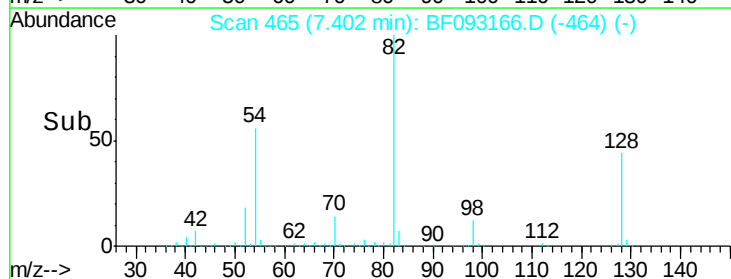
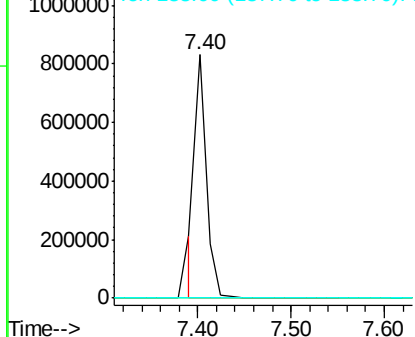


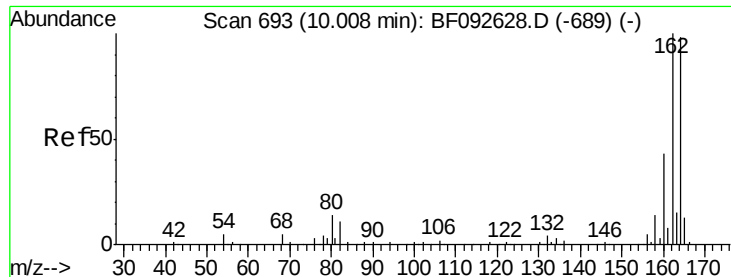
#25
 Isophorone
 Concen: 33.84 ng
 RT: 7.40 min Scan# 465
 Delta R.T. -0.29 min
 Lab File: BF093166.D
 Acq: 25 Feb 2017 1:22

Tgt Ion: 82 Resp: 710157
 Ion Ratio Lower Upper
 82 100
 95 0.0 5.6 8.4#
 138 0.0 14.6 22.0#



Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 95.00 (94.70 to 95.70): BF0
 Ion 138.00 (137.70 to 138.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.88 min Scan# 682

Delta R.T. -0.01 min

Lab File: BF093166.D

Acq: 25 Feb 2017 1:22

Instrument :

BNA_F

ClientSampleId :

CLP-S-03(0-5)-D

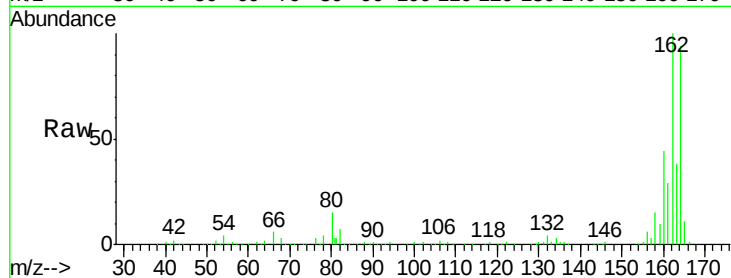
Tgt Ion:164 Resp: 300773

Ion Ratio Lower Upper

164 100

162 106.6 80.2 120.2

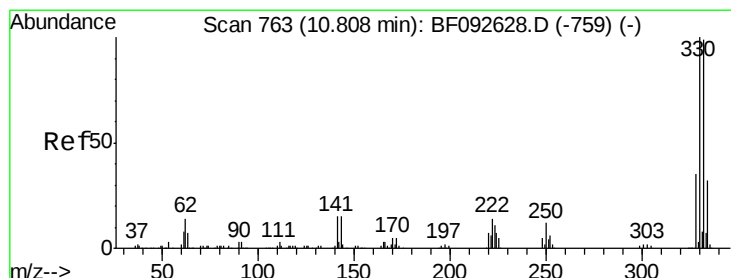
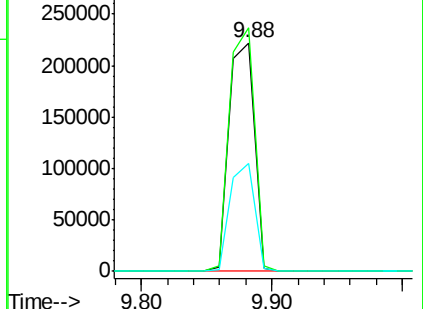
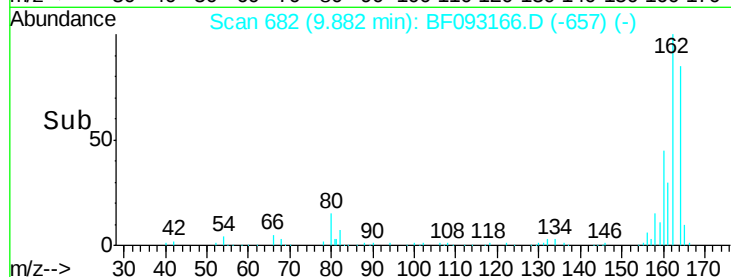
160 47.4 36.9 55.3



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: 128.47 ng

RT: 10.67 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF093166.D

Acq: 25 Feb 2017 1:22

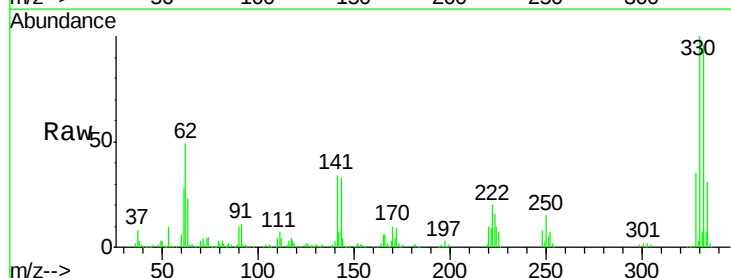
Tgt Ion:330 Resp: 279460

Ion Ratio Lower Upper

330 100

332 96.5 77.4 116.2

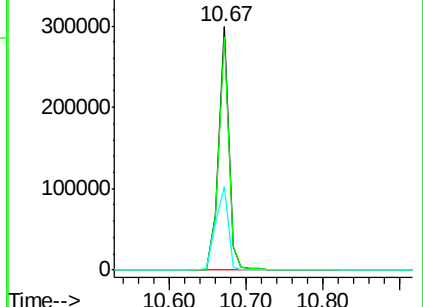
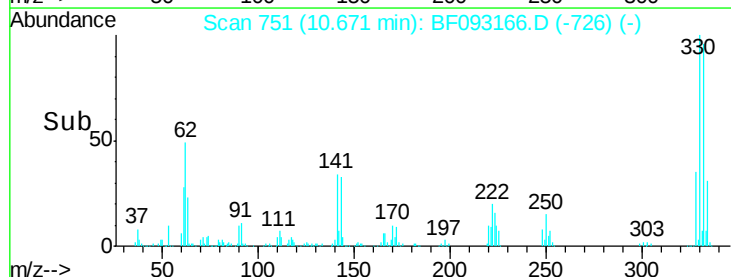
141 41.8 34.1 51.1

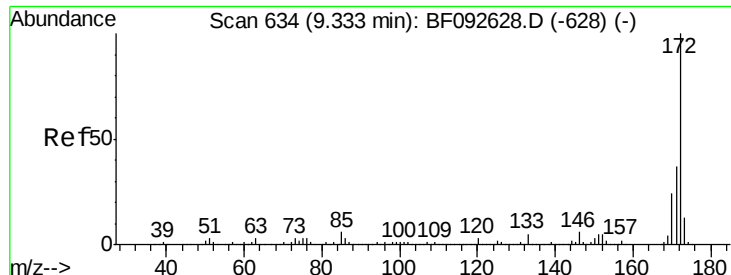


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

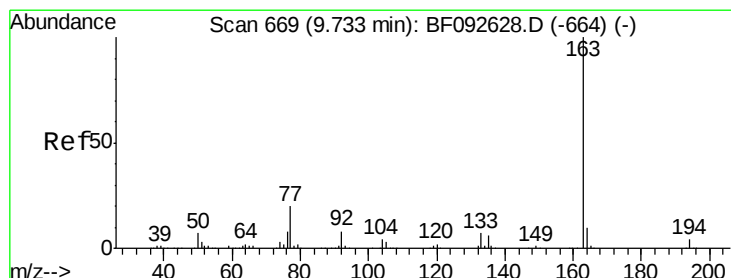
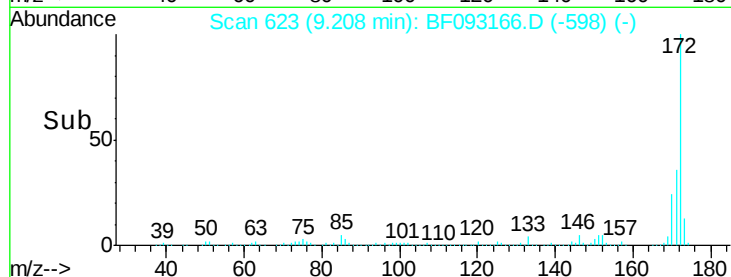
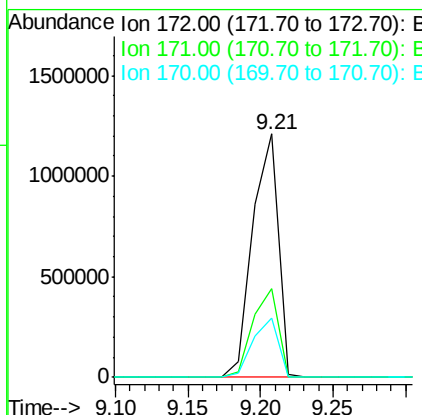
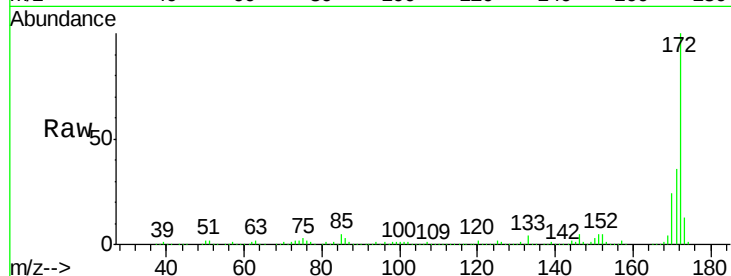




#44
2-Fluorobiphenyl
Concen: 89.70 ng
RT: 9.21 min Scan# 623
Delta R.T. -0.01 min
Lab File: BF093166.D
Acq: 25 Feb 2017 1:22

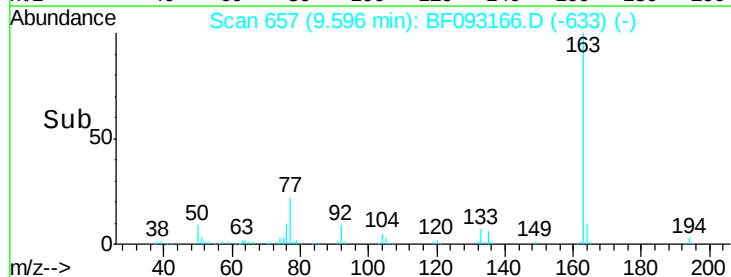
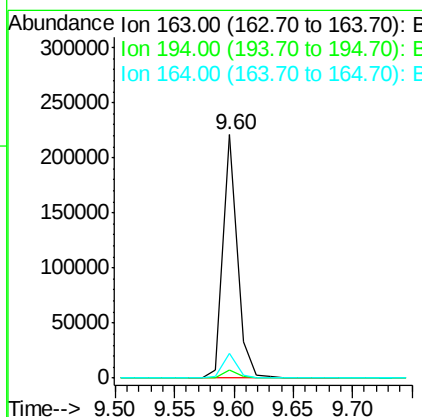
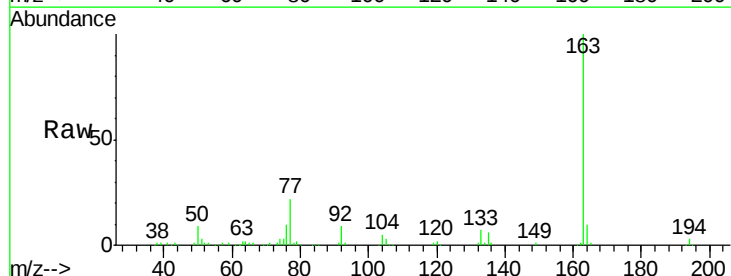
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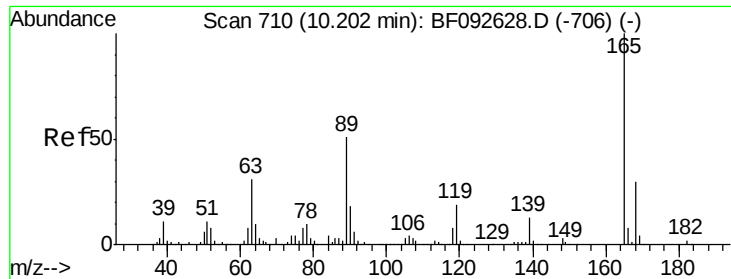
Tgt Ion:172 Resp: 1489123
Ion Ratio Lower Upper
172 100
171 36.4 29.4 44.0
170 24.3 20.2 30.4



#49
Dimethylphthalate
Concen: 9.00 ng
RT: 9.60 min Scan# 657
Delta R.T. -0.02 min
Lab File: BF093166.D
Acq: 25 Feb 2017 1:22

Tgt Ion:163 Resp: 182309
Ion Ratio Lower Upper
163 100
194 3.4 3.0 4.4
164 10.3 8.0 12.0

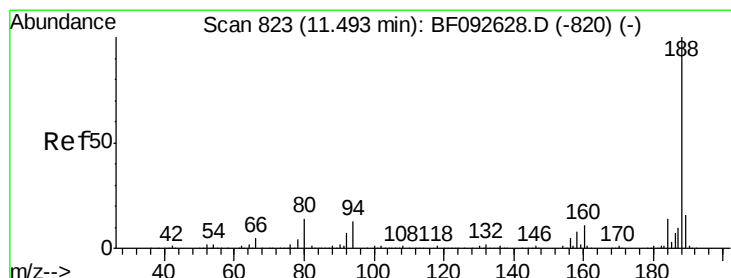
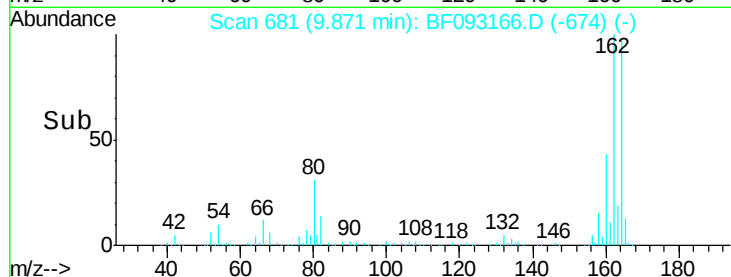
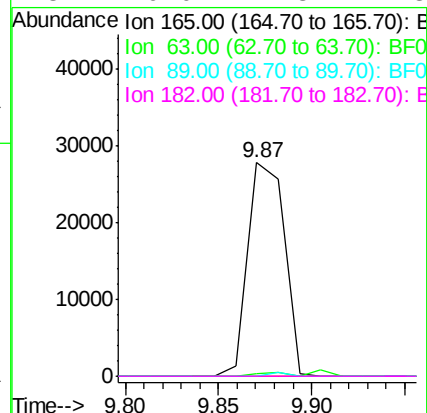
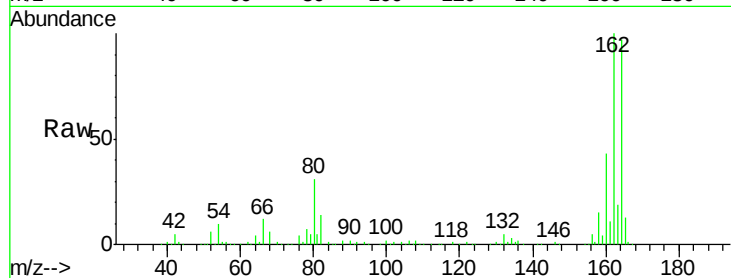




#56
 2,4-Dinitrotoluene
 Concen: 6.48 ng
 RT: 9.87 min Scan# 681
 Delta R.T. -0.22 min
 Lab File: BF093166.D
 Acq: 25 Feb 2017 1:22

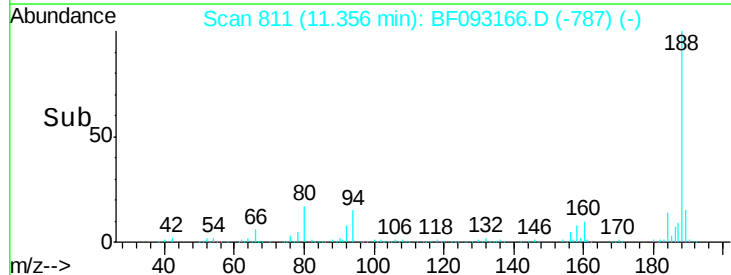
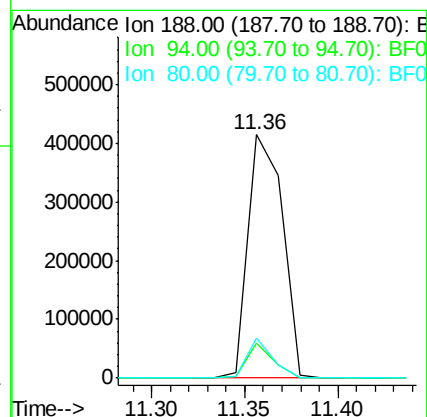
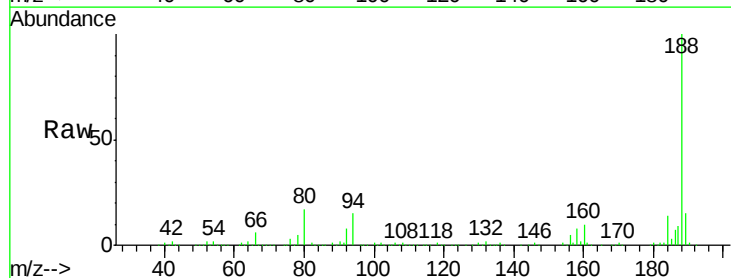
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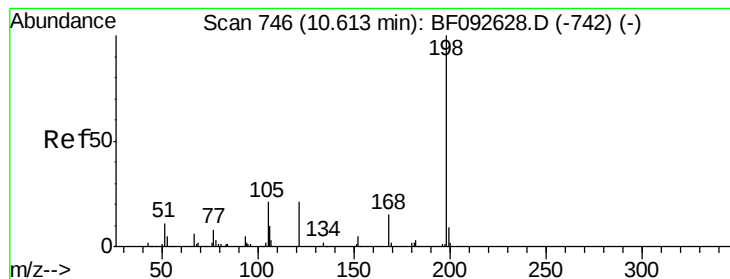
Tgt Ion:165 Resp: 37732
 Ion Ratio Lower Upper
 165 100
 63 1.3 40.2 60.4#
 89 0.0 62.5 93.7#
 182 0.0 1.8 2.8#



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.36 min Scan# 811
 Delta R.T. -0.02 min
 Lab File: BF093166.D
 Acq: 25 Feb 2017 1:22

Tgt Ion:188 Resp: 532701
 Ion Ratio Lower Upper
 188 100
 94 14.6 10.0 15.0
 80 16.5 11.2 16.8





#64

4,6-Dinitro-2-methylphenol

Concen: 2.92 ng

RT: 10.67 min Scan# 751

Delta R.T. 0.17 min

Lab File: BF093166.D

Acq: 25 Feb 2017 1:22

Instrument :

BNA_F

ClientSampleId :

CLP-S-03(0-5)-D

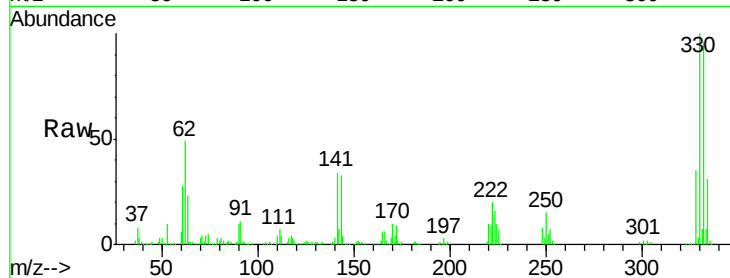
Tgt Ion:198 Resp: 860

Ion Ratio Lower Upper

198 100

51 195.6 6.7 46.7#

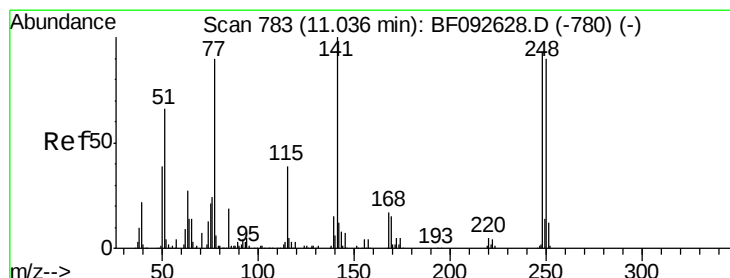
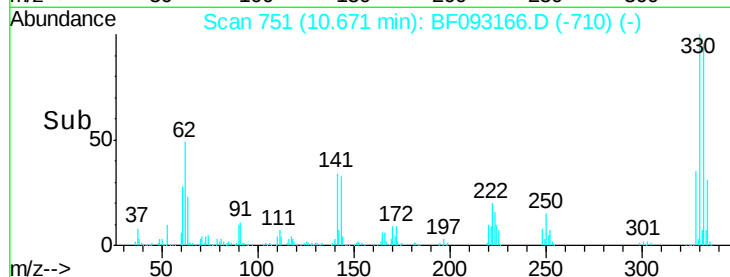
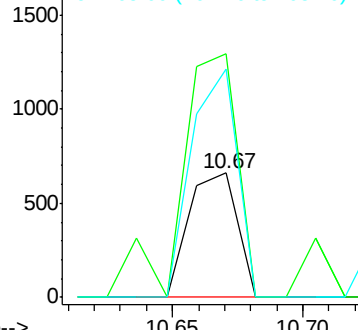
105 183.7 16.6 56.6#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



#66

4-Bromophenyl-phenylether

Concen: 3.85 ng

RT: 10.67 min Scan# 751

Delta R.T. -0.25 min

Lab File: BF093166.D

Acq: 25 Feb 2017 1:22

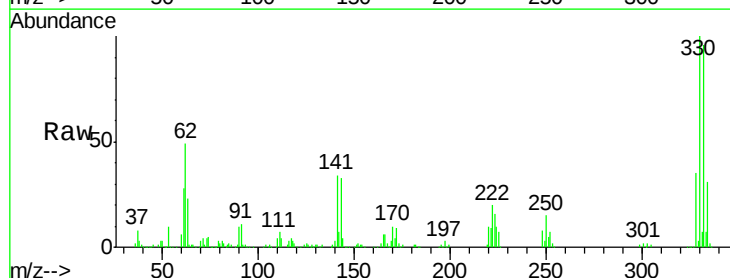
Tgt Ion:248 Resp: 21402

Ion Ratio Lower Upper

248 100

250 192.7 76.9 115.3#

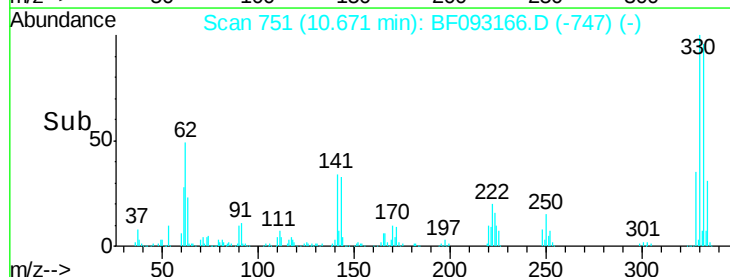
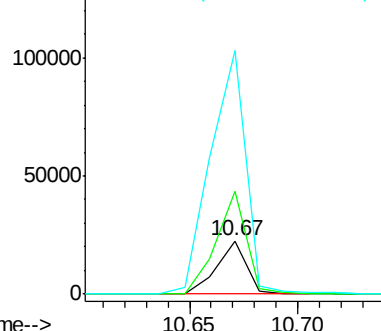
141 456.7 68.2 102.4#

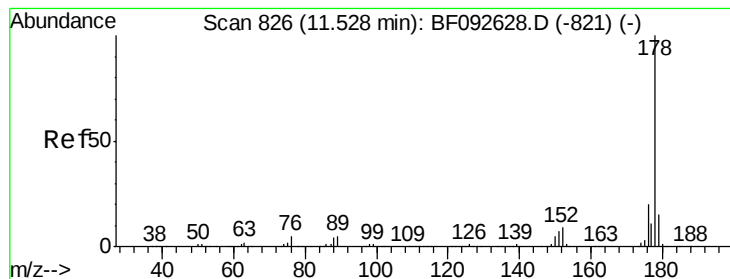


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 9.37 ng

RT: 11.38 min Scan# 813

Delta R.T. -0.02 min

Lab File: BF093166.D

Acq: 25 Feb 2017 1:22

Instrument :

BNA_F

ClientSampleId :

CLP-S-03(0-5)-D

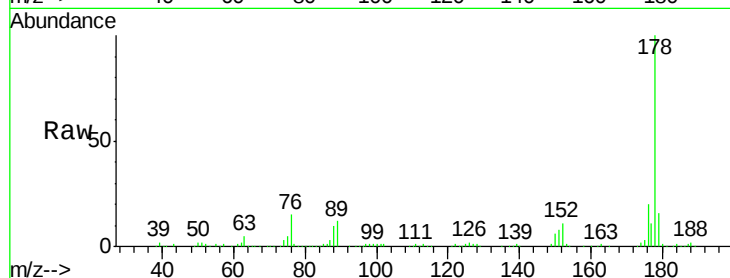
Tgt Ion:178 Resp: 285878

Ion Ratio Lower Upper

178 100

176 19.6 16.6 25.0

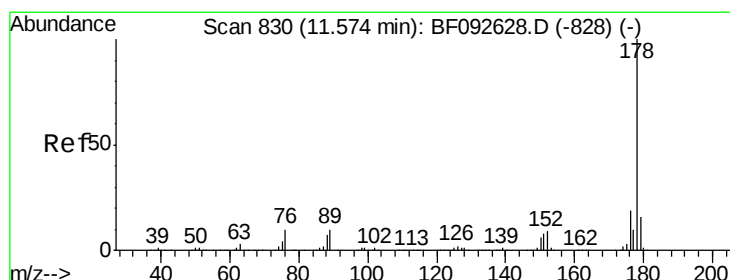
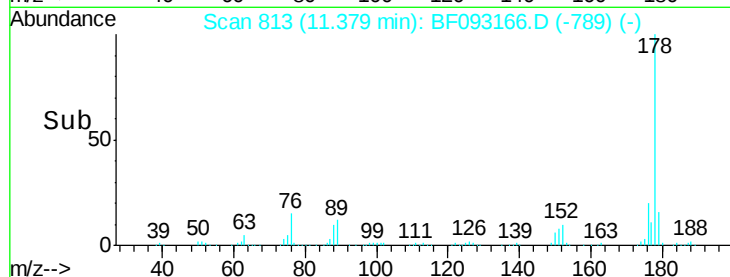
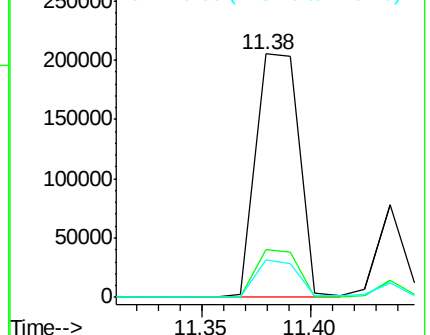
179 15.6 12.8 19.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 2.33 ng

RT: 11.44 min Scan# 818

Delta R.T. -0.02 min

Lab File: BF093166.D

Acq: 25 Feb 2017 1:22

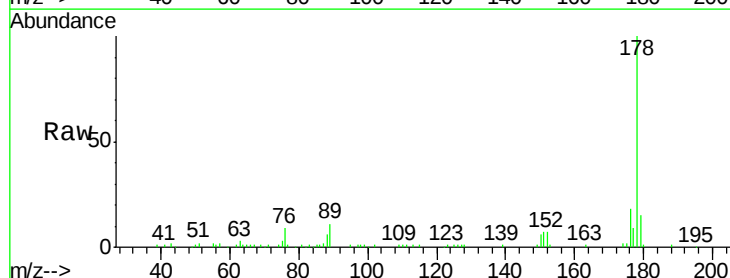
Tgt Ion:178 Resp: 71431

Ion Ratio Lower Upper

178 100

176 18.3 15.9 23.9

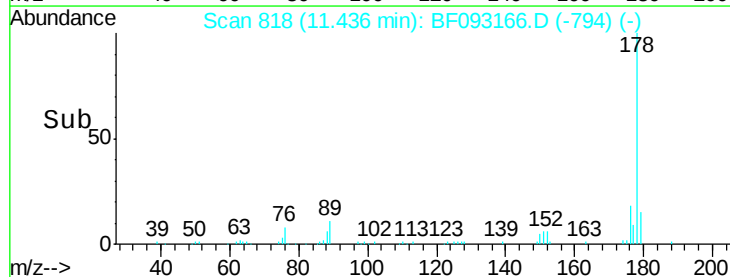
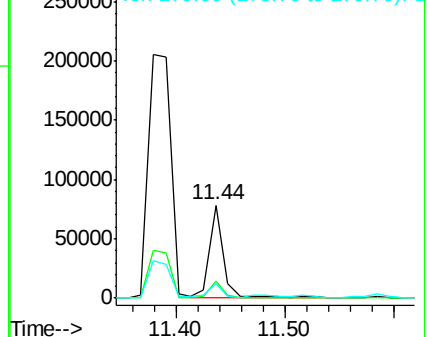
179 15.0 13.2 19.8

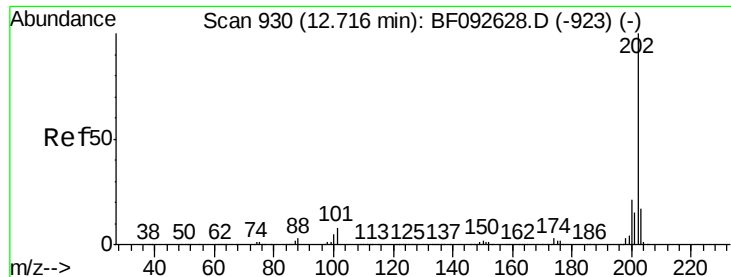


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 13.66 ng

RT: 12.57 min Scan# 917

Delta R.T. -0.02 min

Lab File: BF093166.D

Acq: 25 Feb 2017 1:22

Instrument :

BNA_F

ClientSampleId :

CLP-S-03(0-5)-D

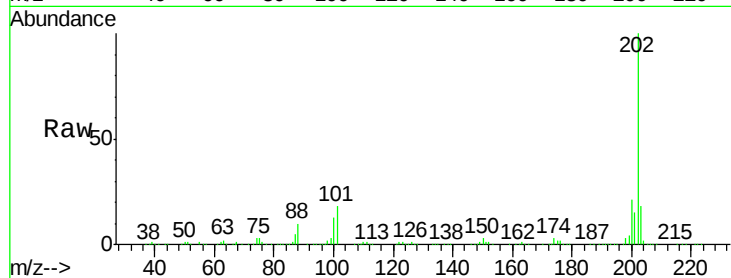
Tgt Ion:202 Resp: 430122

Ion Ratio Lower Upper

202 100

101 18.4 0.0 34.6

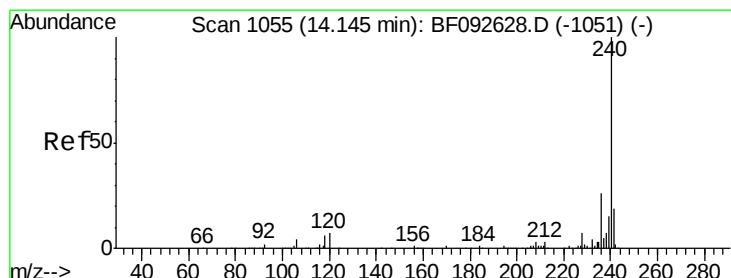
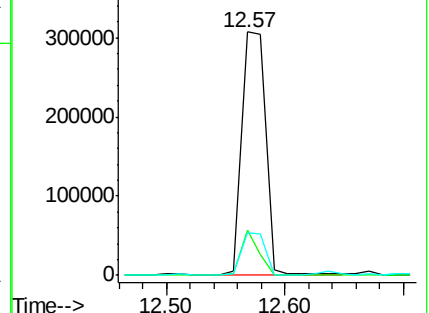
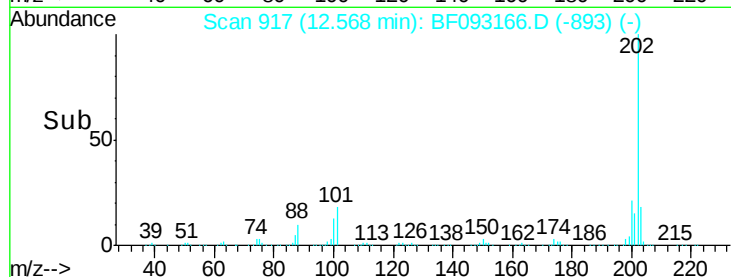
203 17.7 0.0 38.7



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.00 min Scan# 1042

Delta R.T. -0.02 min

Lab File: BF093166.D

Acq: 25 Feb 2017 1:22

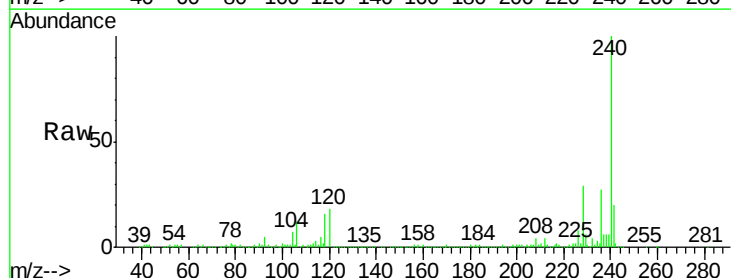
Tgt Ion:240 Resp: 352030

Ion Ratio Lower Upper

240 100

120 18.0 12.9 19.3

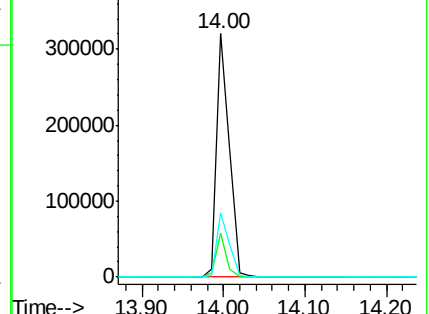
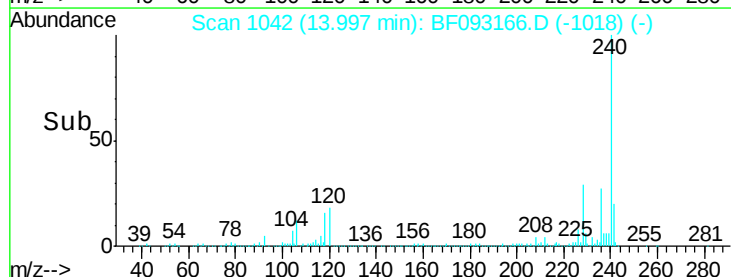
236 26.7 20.9 31.3

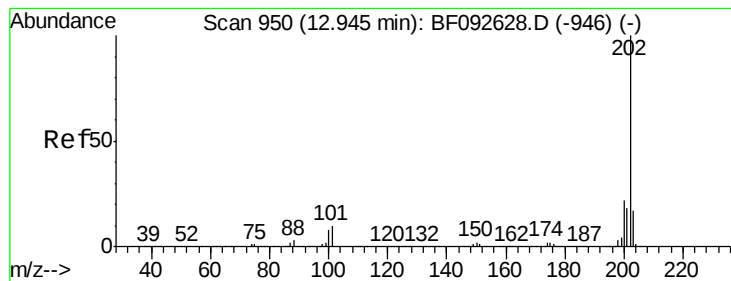


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 15.04 ng

RT: 12.80 min Scan# 937

Delta R.T. -0.02 min

Lab File: BF093166.D

Acq: 25 Feb 2017 1:22

Instrument :

BNA_F

ClientSampleId :

CLP-S-03(0-5)-D

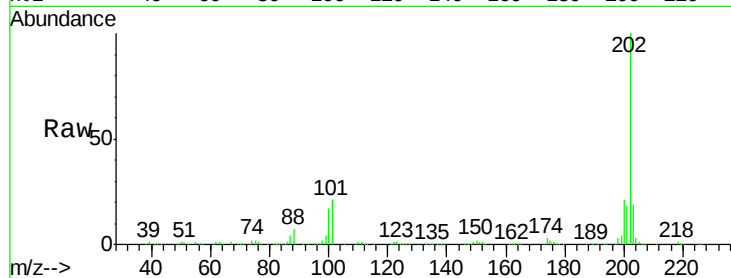
Tgt Ion: 202 Resp: 396341

Ion Ratio Lower Upper

202 100

200 21.4 17.7 26.5

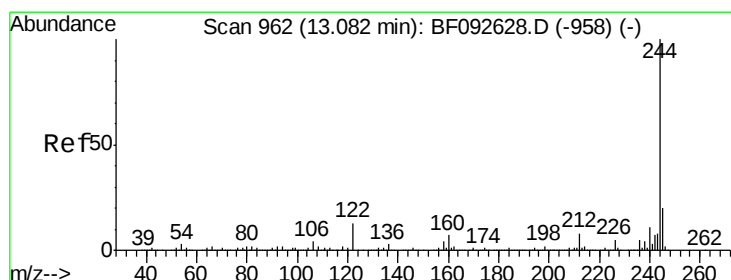
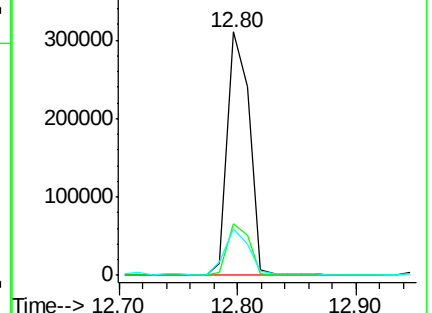
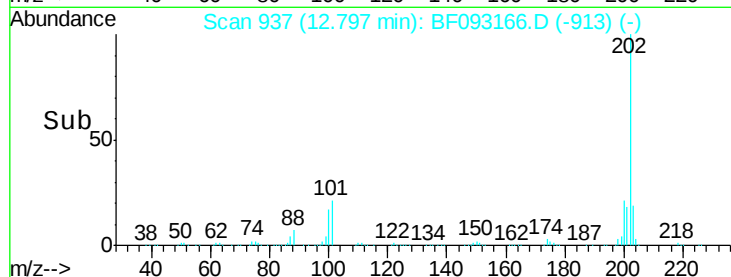
203 19.0 14.7 22.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 76.19 ng

RT: 12.95 min Scan# 950

Delta R.T. -0.02 min

Lab File: BF093166.D

Acq: 25 Feb 2017 1:22

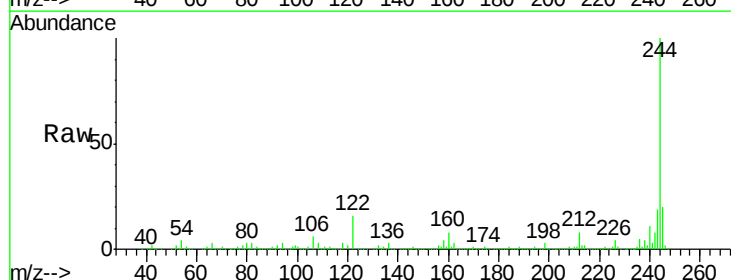
Tgt Ion: 244 Resp: 1141518

Ion Ratio Lower Upper

244 100

212 7.6 6.2 9.2

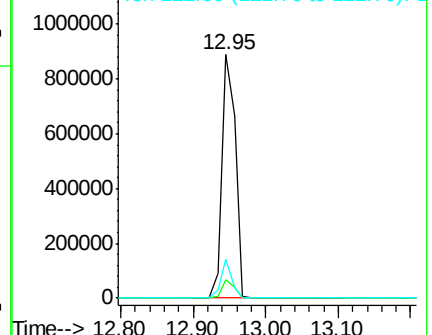
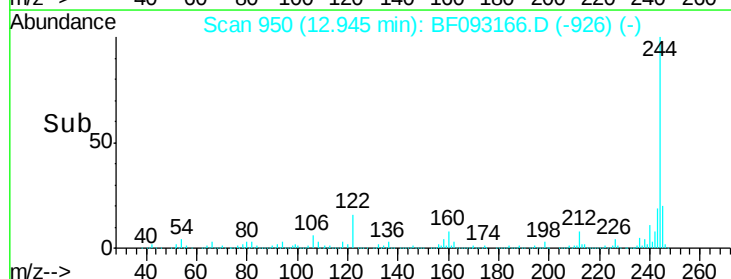
122 16.0 11.4 17.2

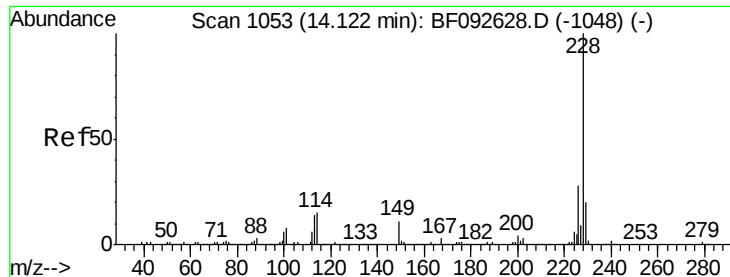


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 8.07 ng

RT: 13.99 min Scan# 1041

Delta R.T. -0.02 min

Lab File: BF093166.D

Acq: 25 Feb 2017 1:22

Instrument :

BNA_F

ClientSampleId :

CLP-S-03(0-5)-D

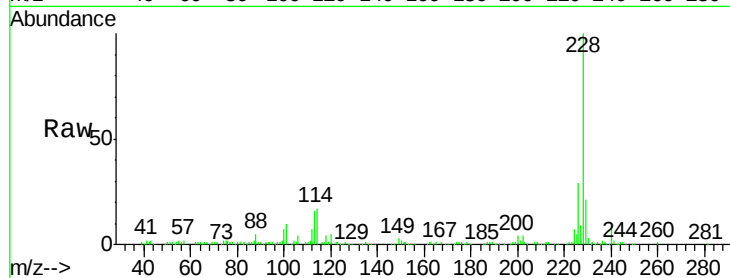
Tgt Ion:228 Resp: 173758

Ion Ratio Lower Upper

228 100

226 28.9 22.4 33.6

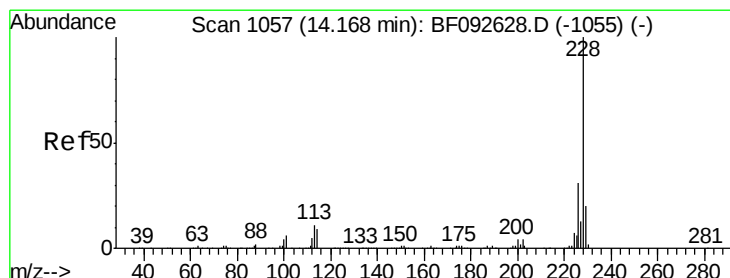
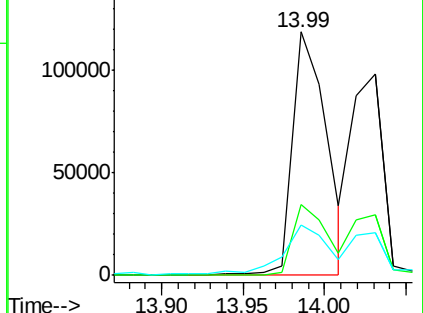
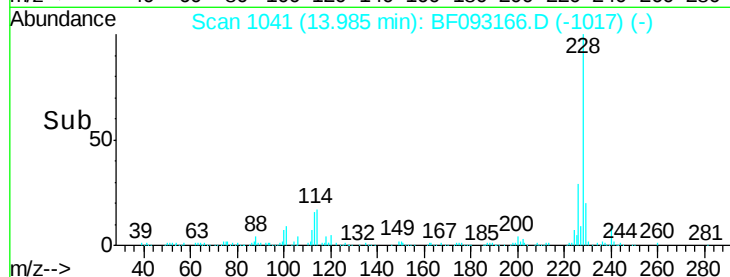
229 20.6 16.2 24.4



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



#82

Chrysene

Concen: 8.62 ng

RT: 13.99 min Scan# 1041

Delta R.T. -0.06 min

Lab File: BF093166.D

Acq: 25 Feb 2017 1:22

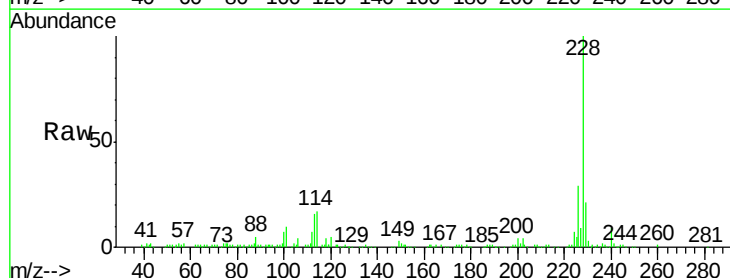
Tgt Ion:228 Resp: 173758

Ion Ratio Lower Upper

228 100

226 28.9 25.4 38.0

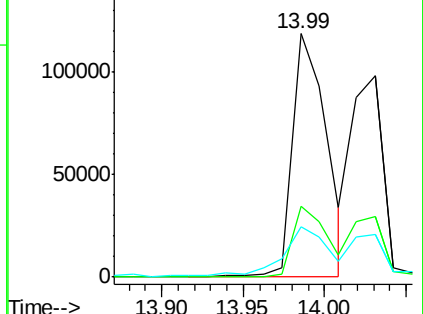
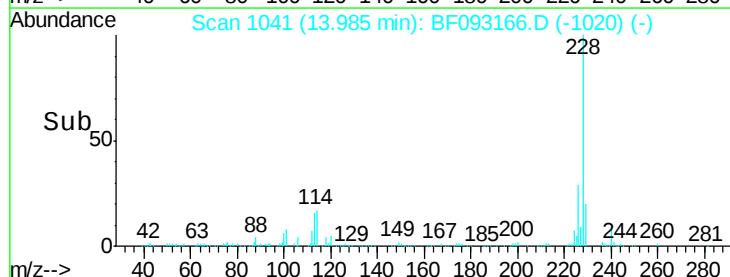
229 20.6 16.2 24.2

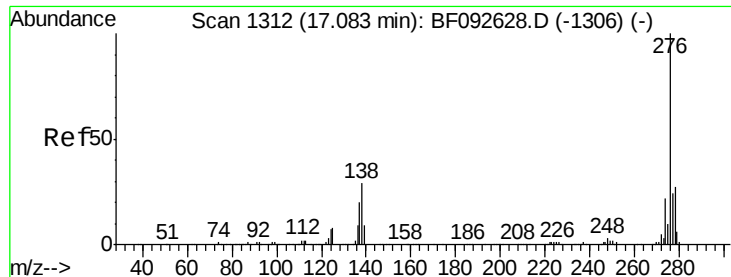


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

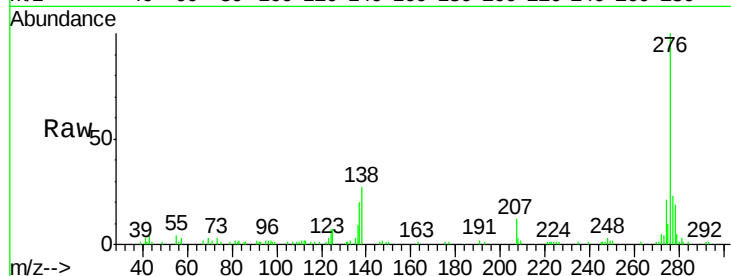




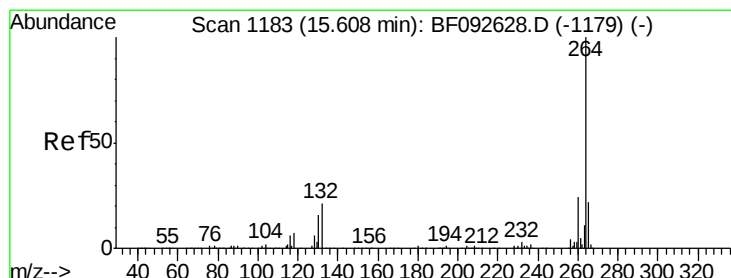
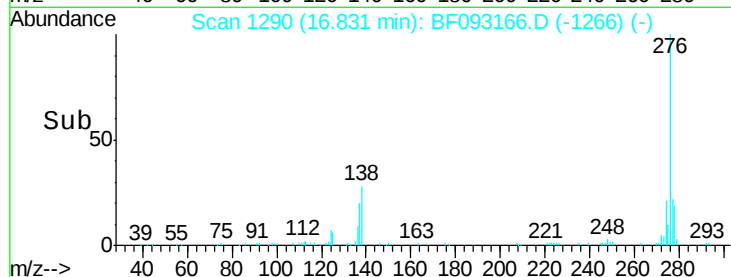
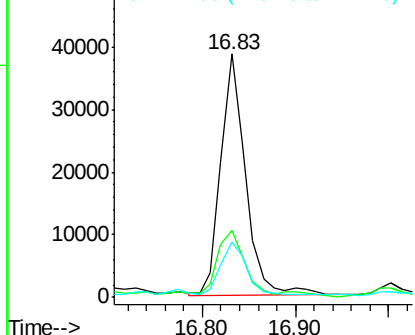
#85
Indeno(1,2,3-cd)pyrene
Concen: 4.59 ng
RT: 16.83 min Scan# 1290
Delta R.T. -0.02 min
Lab File: BF093166.D
Acq: 25 Feb 2017 1:22

Instrument :
BNA_F
ClientSampleId :
CLP-S-03(0-5)-D

Tgt Ion	Ratio	Lower	Upper
276	100		
138	29.3	21.8	32.6
277	22.8	20.2	30.4

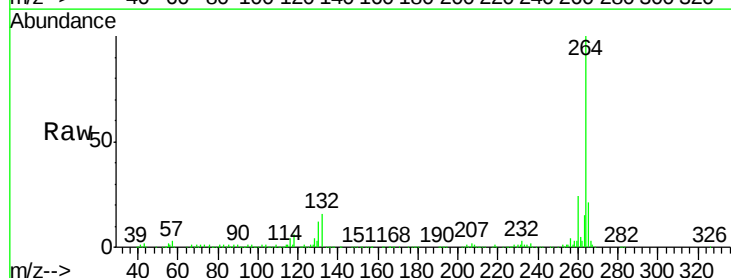


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

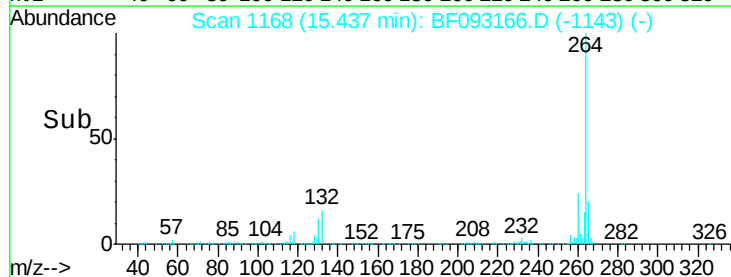
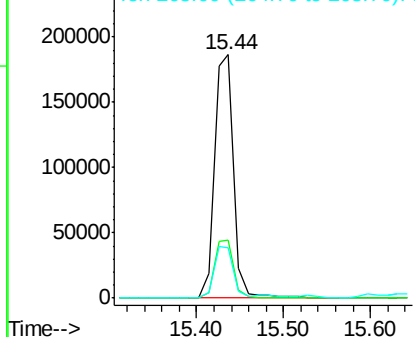


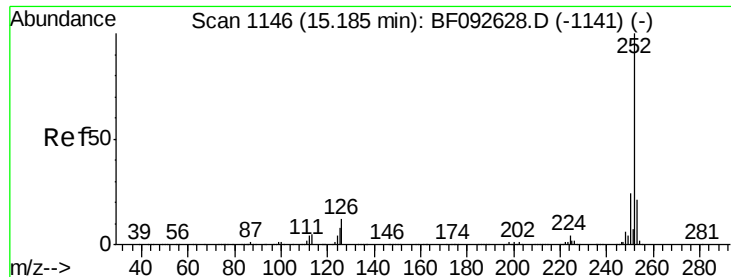
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.44 min Scan# 1168
Delta R.T. -0.01 min
Lab File: BF093166.D
Acq: 25 Feb 2017 1:22

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.2	28.8
265	20.6	17.4	26.0



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

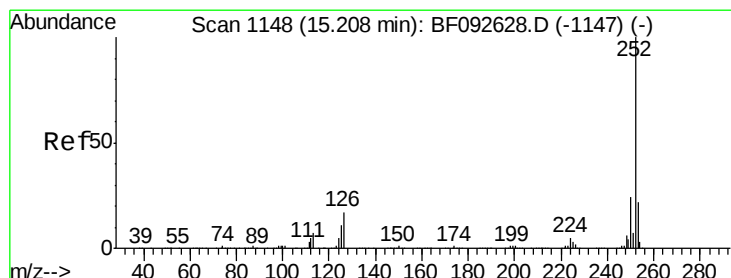
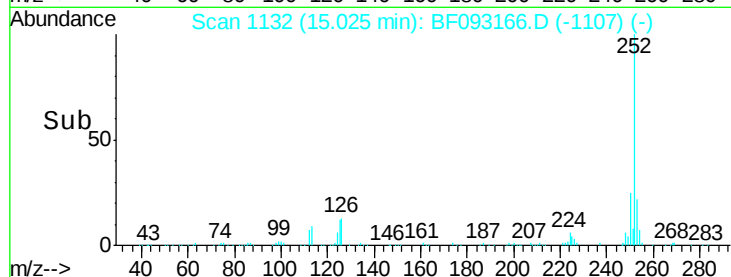
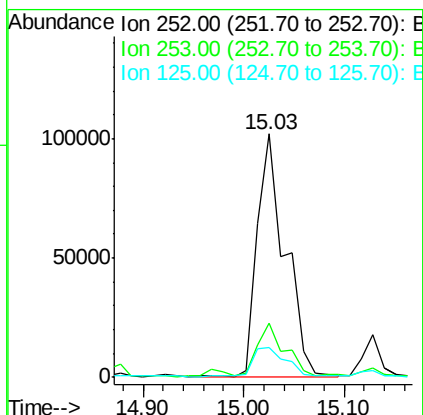
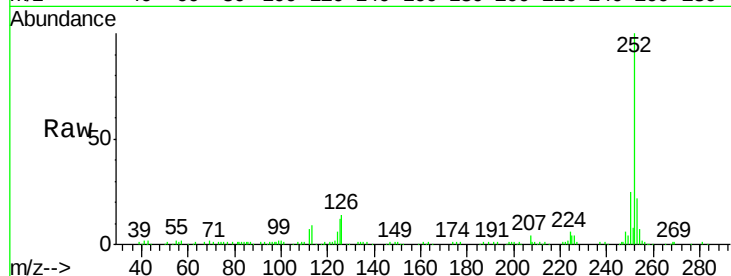




#87
Benzo(b)fluoranthene
Concen: 10.37 ng
RT: 15.03 min Scan# 1132
Delta R.T. -0.01 min
Lab File: BF093166.D
Acq: 25 Feb 2017 1:22

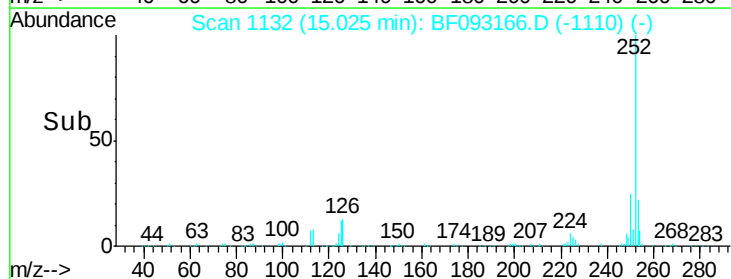
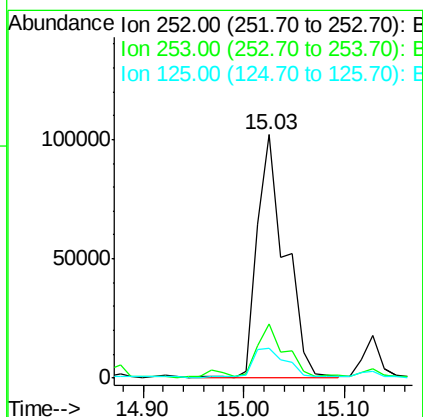
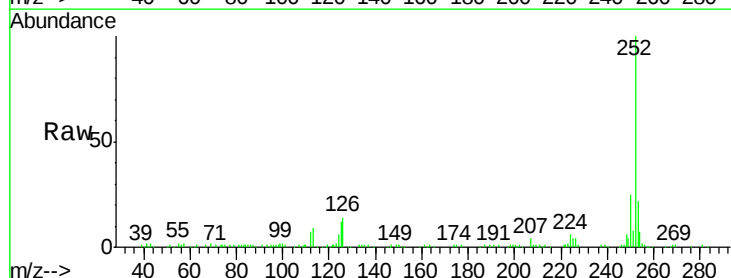
Instrument :
BNA_F
ClientSampleId :
CLP-S-03(0-5)-D

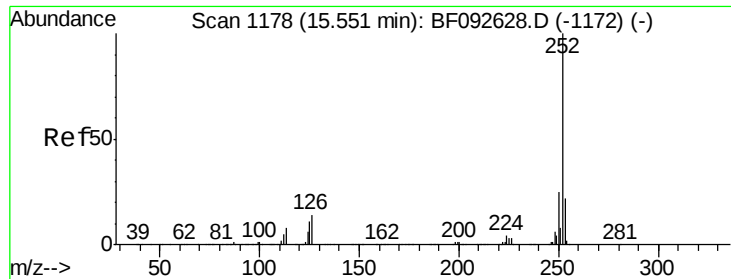
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.2	27.4
125	12.4	9.8	14.6



#88
Benzo(k)fluoranthene
Concen: 12.01 ng
RT: 15.03 min Scan# 1132
Delta R.T. -0.05 min
Lab File: BF093166.D
Acq: 25 Feb 2017 1:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.5	27.7
125	12.4	8.9	13.3





#89

Benzo(a)pyrene

Concen: 6.59 ng

RT: 15.37 min Scan# 1162

Delta R.T. -0.02 min

Lab File: BF093166.D

Acq: 25 Feb 2017 1:22

Instrument :

BNA_F

ClientSampleId :

CLP-S-03(0-5)-D

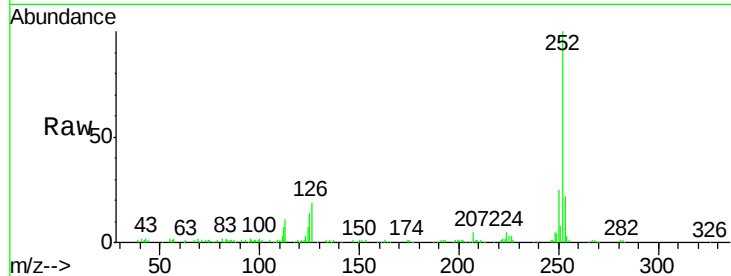
Tgt Ion: 252 Resp: 107961

Ion Ratio Lower Upper

252 100

253 21.9 18.2 27.2

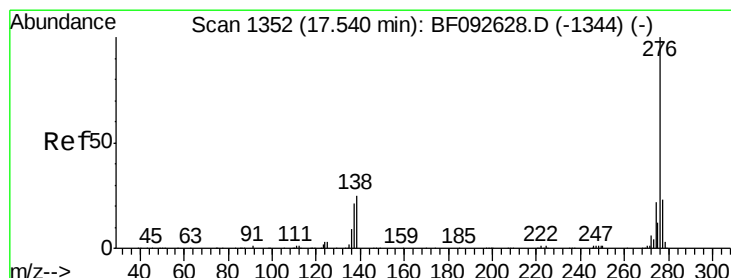
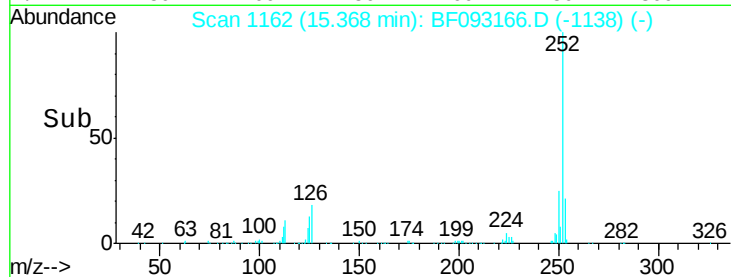
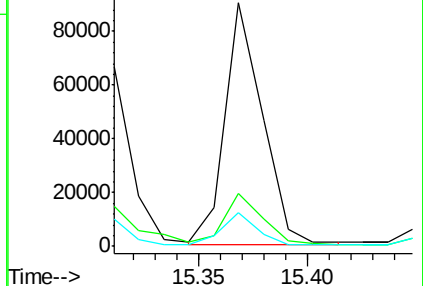
125 13.9 10.0 15.0



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 5.55 ng

RT: 17.25 min Scan# 1327

Delta R.T. -0.03 min

Lab File: BF093166.D

Acq: 25 Feb 2017 1:22

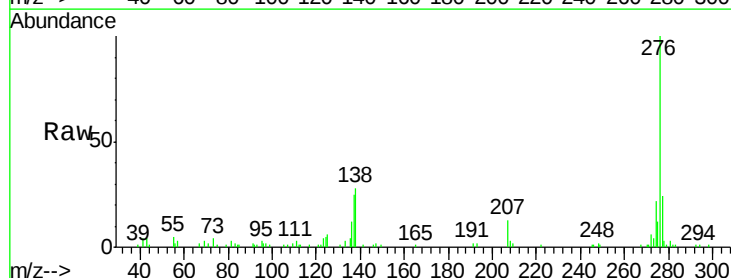
Tgt Ion: 276 Resp: 74166

Ion Ratio Lower Upper

276 100

277 24.4 19.2 28.8

138 28.3 16.0 24.0#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

