

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF011317\
 Data File : BF092270.D
 Acq On : 14 Jan 2017 4:30
 Operator : UM/SJ
 Sample : I1147-04
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TOD-SB-101-0-2

Quant Time: Jan 16 01:33:03 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 16 01:02:36 2017
 Response via : Initial Calibration

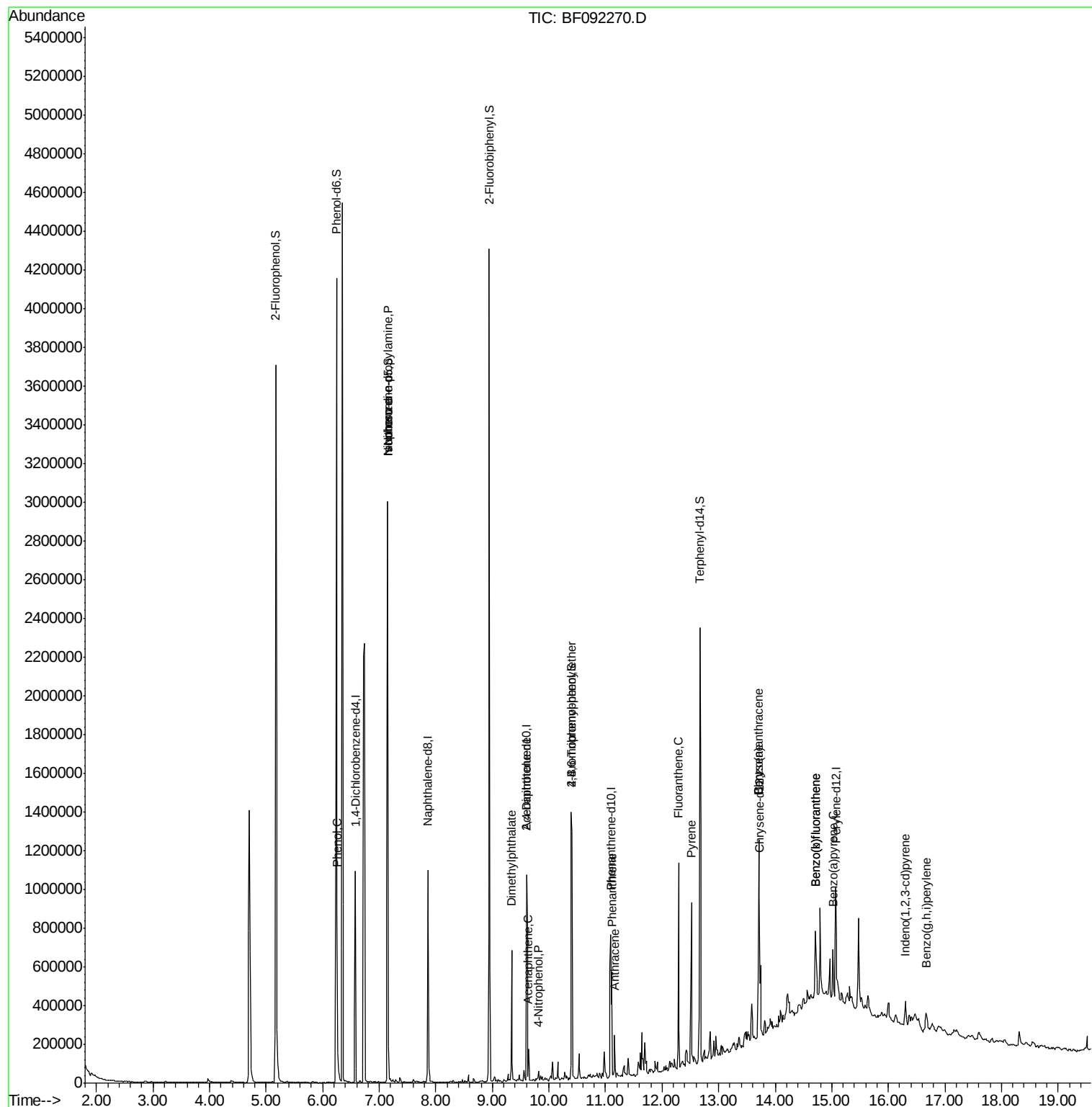
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.58	152	176272	20.00	ng	-0.01
21) Naphthalene-d8	7.86	136	709281	20.00	ng	-0.02
38) Acenaphthene-d10	9.60	164	307108	20.00	ng	-0.02
63) Phenanthrene-d10	11.09	188	368691	20.00	ng	-0.01
75) Chrysene-d12	13.72	240	319767	20.00	ng	-0.01
86) Perylene-d12	15.07	264	266144	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.17	112	1249803	118.39	ng	0.00
7) Phenol-d6	6.24	99	1536808	119.23	ng	-0.01
23) Nitrobenzene-d5	7.15	82	1033408	81.02	ng	-0.01
41) 2,4,6-Tribromophenol	10.40	330	255067	100.36	ng	-0.01
44) 2-Fluorobiphenyl	8.94	172	1304301	87.38	ng	-0.01
78) Terphenyl-d14	12.67	244	851377	64.57	ng	-0.02
Target Compounds						Qvalue
10) Phenol	6.26	94	107730	7.33	ng	# 73
19) n-Nitroso-di-n-propylamine	7.15	70	136830	15.96	ng	# 76
25) Isophorone	7.15	82	1029625	43.75	ng	# 65
49) Dimethylphthalate	9.34	163	255920	13.03	ng	99
51) Acenaphthene	9.64	154	35042	2.02	ng	95
55) 4-Nitrophenol	9.81	139	7524	2.08	ng	# 11
56) 2,4-Dinitrotoluene	9.60	165	40133	7.44	ng	# 20
66) 4-Bromophenyl-phenylether	10.40	248	15376	4.01	ng	# 1
70) Phenanthrene	11.11	178	272720	13.64	ng	96
71) Anthracene	11.16	178	77305	2.82	ng	97
73) Di-n-butylphthalate	11.66	149	3778	Below Cal	#	64
74) Fluoranthene	12.29	202	402674	20.91	ng	96
76) Benzidine	12.42	184	704	Below Cal	#	1
77) Pyrene	12.52	202	365884	15.60	ng	97
80) Benzo(a)anthracene	13.71	228	210098	11.64	ng	99
82) Chrysene	13.71	228	210098	11.60	ng	96
85) Indeno(1,2,3-cd)pyrene	16.30	276	72169	4.60	ng	# 90
87) Benzo(b)fluoranthene	14.71	252	275964	16.65	ng	98
88) Benzo(k)fluoranthene	14.71	252	275964	19.53	ng	98
89) Benzo(a)pyrene	15.02	252	143574	9.76	ng	98
91) Benzo(g,h,i)perylene	16.67	276	65703	5.23	ng	# 94

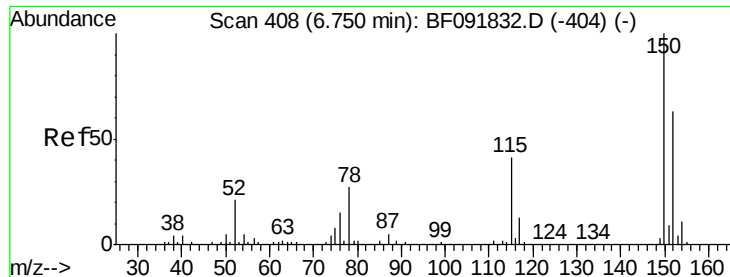
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.58 min Scan# 419

Delta R.T. -0.01 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

Instrument :

BNA_F

ClientSampleId :

TOD-SB-101-0-2

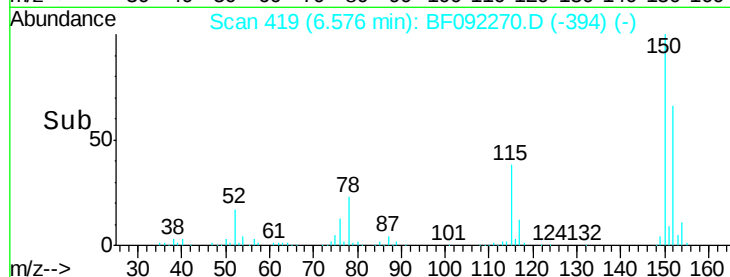
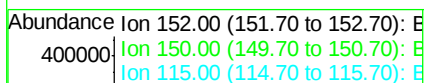
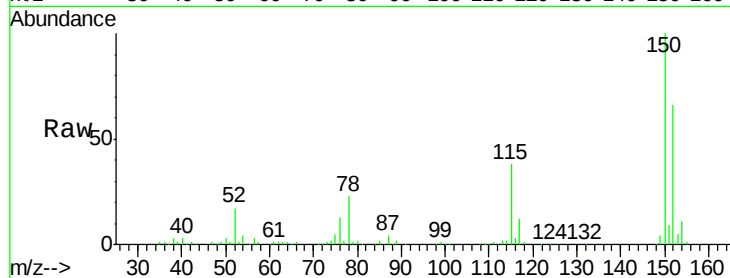
Tgt Ion:152 Resp: 176272

Ion Ratio Lower Upper

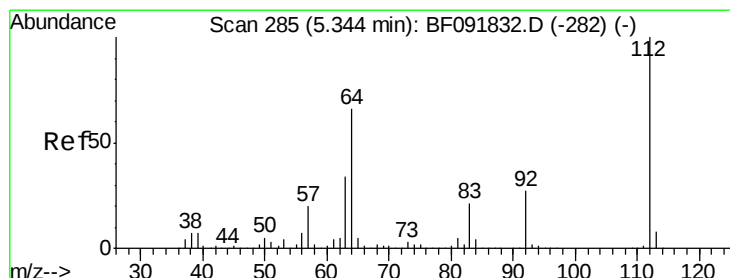
152 100

150 152.1 124.9 187.3

115 57.1 46.0 69.0



Time-->



#5

2-Fluorophenol

Concen: 118.39 ng

RT: 5.17 min Scan# 296

Delta R.T. 0.00 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

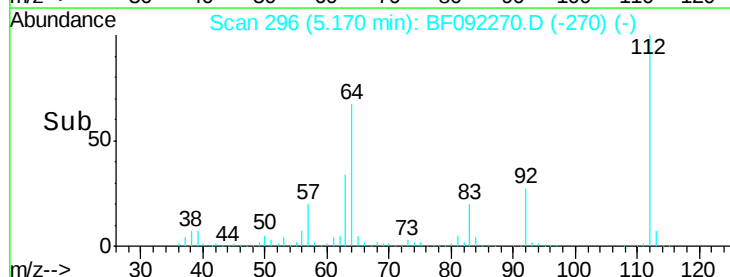
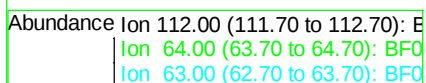
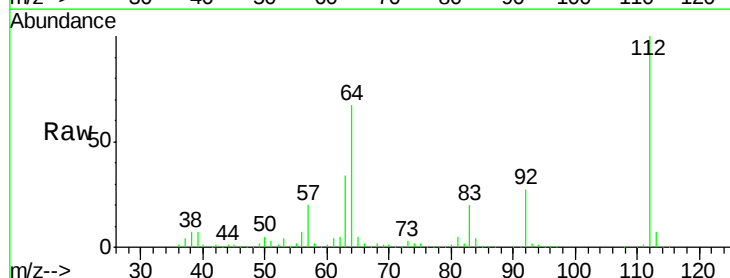
Tgt Ion:112 Resp: 1249803

Ion Ratio Lower Upper

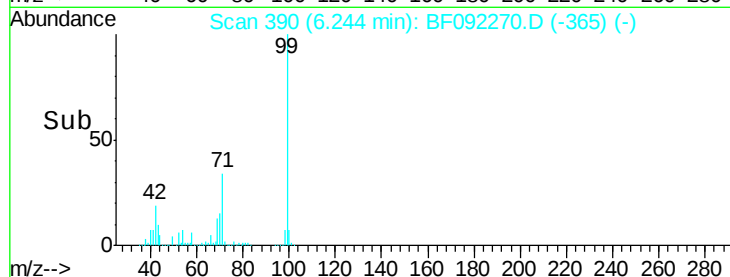
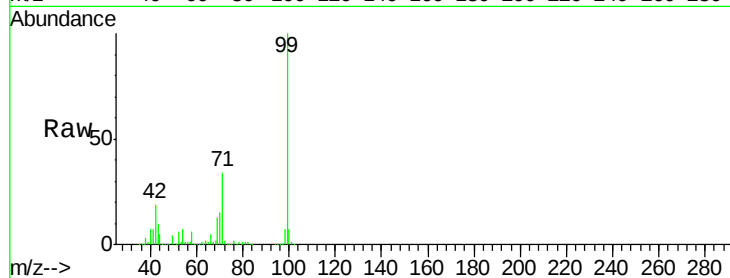
112 100

64 66.5 46.1 69.1

63 33.9 23.8 35.6



Time-->



#7

Phenol-d6

Concen: 119.23 ng

RT: 6.24 min Scan# 390

Delta R.T. -0.01 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

Instrument :

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ClientSampleId :

TOD-SB-101-0-2

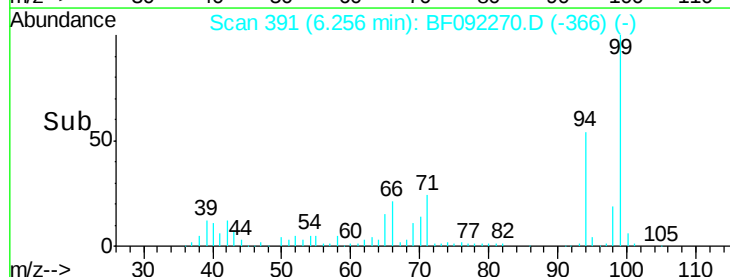
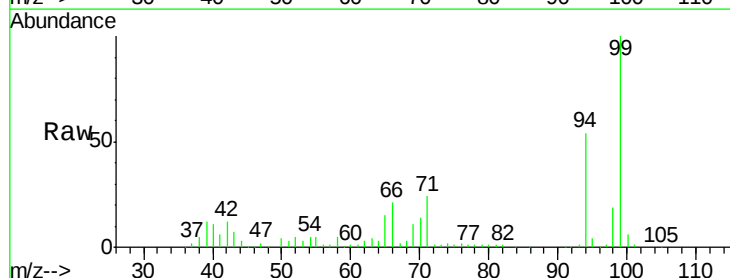
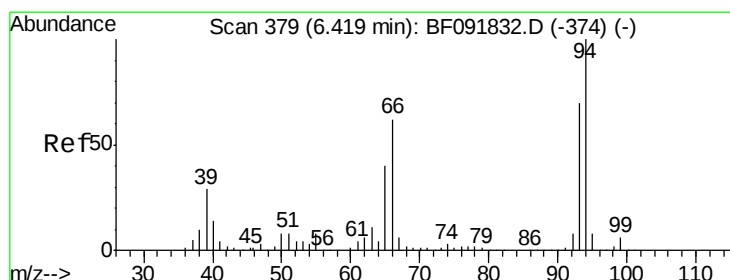
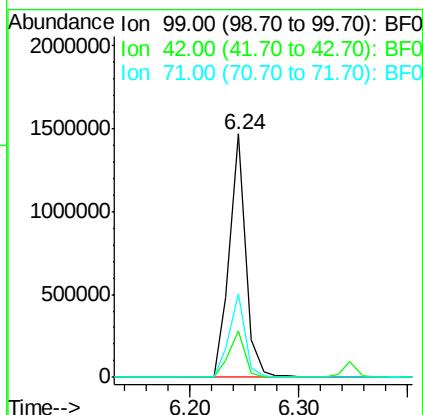
Tgt Ion: 99 Resp: 1536808

Ion Ratio Lower Upper

99 100

42 19.0 15.6 23.4

71 34.1 27.5 41.3



#10

Phenol

Concen: 7.33 ng

RT: 6.26 min Scan# 391

Delta R.T. -0.01 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

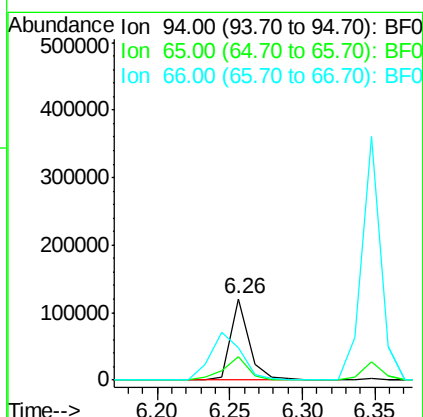
Tgt Ion: 94 Resp: 107730

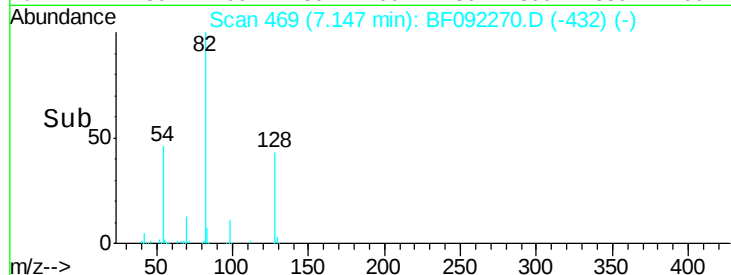
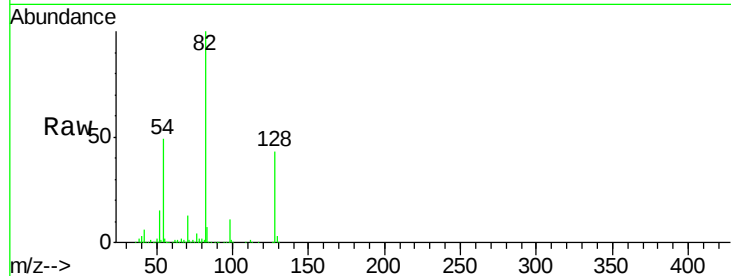
Ion Ratio Lower Upper

94 100

65 28.4 21.4 61.4

66 39.3 44.0 84.0#

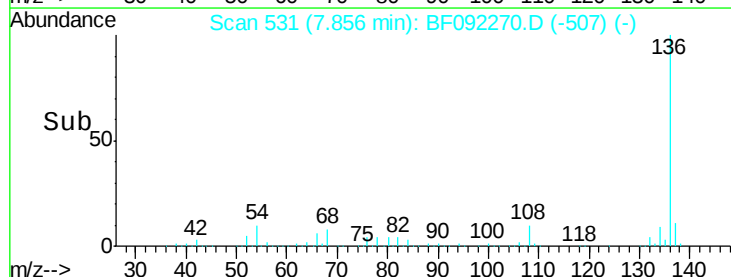
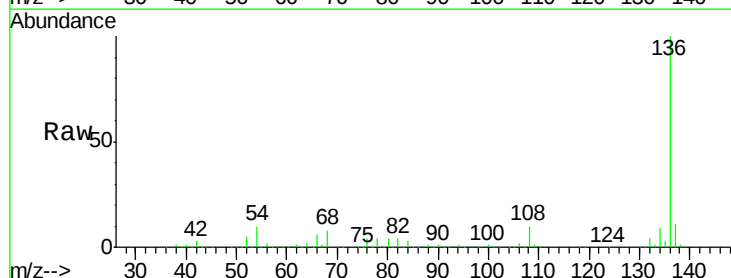
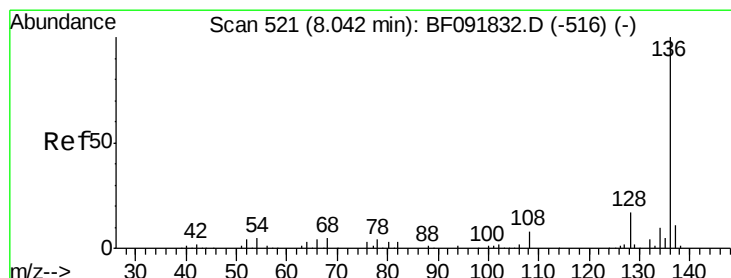
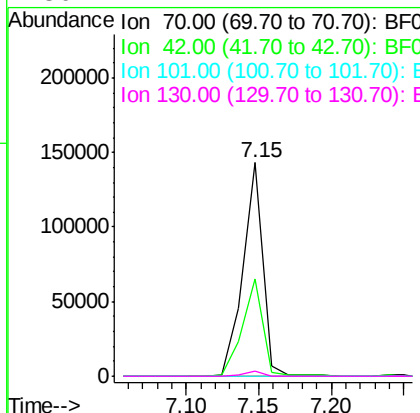




#19
n-Nitroso-di-n-propylamine
Concen: 15.96 ng
RT: 7.15 min Scan# 469
Delta R.T. 0.13 min
Lab File: BF092270.D
Acq: 14 Jan 2017 4:30

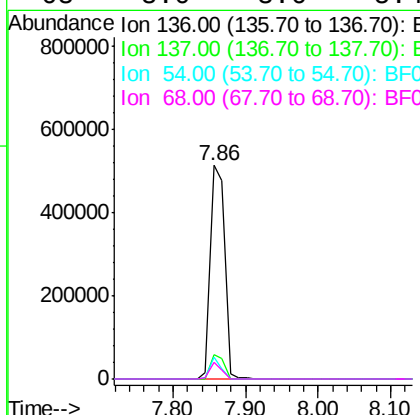
Instrument :
BNA_F
ClientSampleId :
TOD-SB-101-0-2

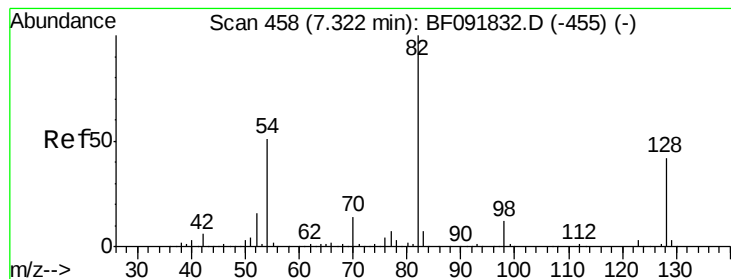
Tgt Ion: 70 Resp: 136830
Ion Ratio Lower Upper
70 100
42 45.5 49.4 74.0#
101 0.0 7.4 11.2#
130 2.4 14.2 21.4#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.86 min Scan# 531
Delta R.T. -0.02 min
Lab File: BF092270.D
Acq: 14 Jan 2017 4:30

Tgt Ion: 136 Resp: 709281
Ion Ratio Lower Upper
136 100
137 11.3 8.4 12.6
54 10.4 4.5 6.7#
68 8.0 3.6 5.4#





#23

Nitrobenzene-d5

Concen: 81.02 ng

RT: 7.15 min Scan# 469

Delta R.T. -0.01 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

Instrument :

BNA_F

ClientSampleId :

TOD-SB-101-0-2

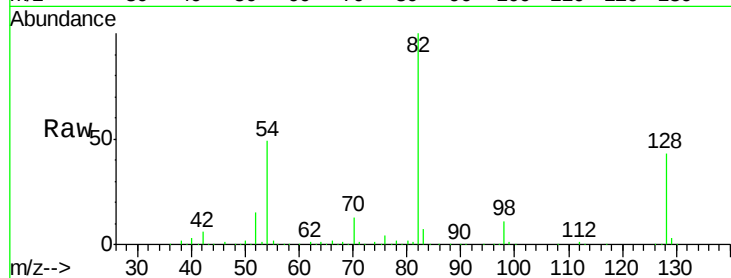
Tgt Ion: 82 Resp: 1033408

Ion Ratio Lower Upper

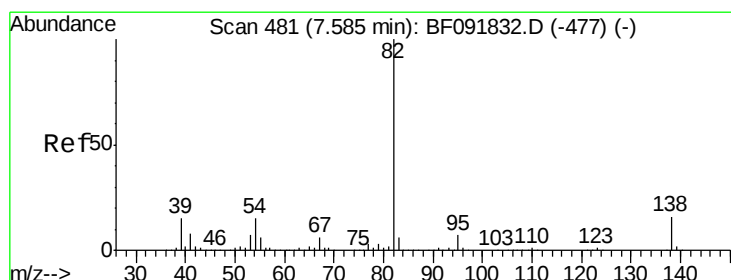
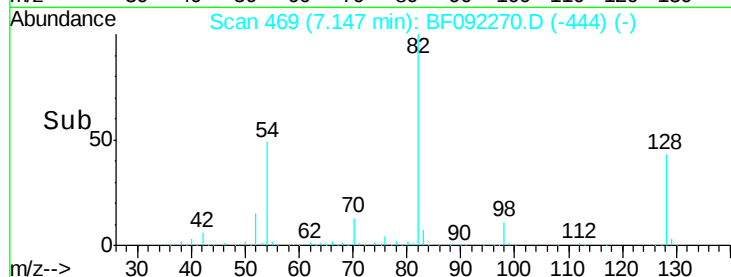
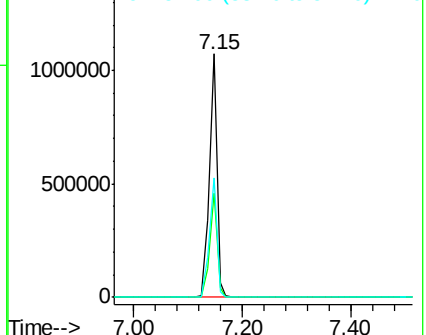
82 100

128 42.7 34.6 52.0

54 49.3 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: 43.75 ng

RT: 7.15 min Scan# 469

Delta R.T. -0.27 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

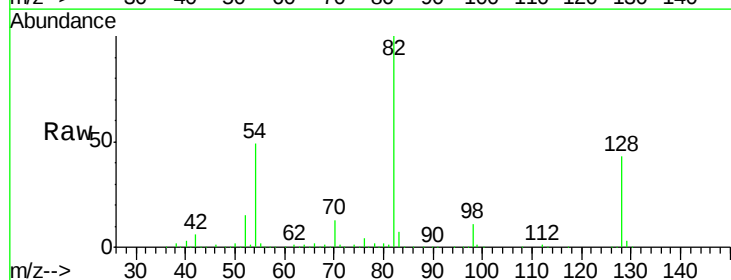
Tgt Ion: 82 Resp: 1029625

Ion Ratio Lower Upper

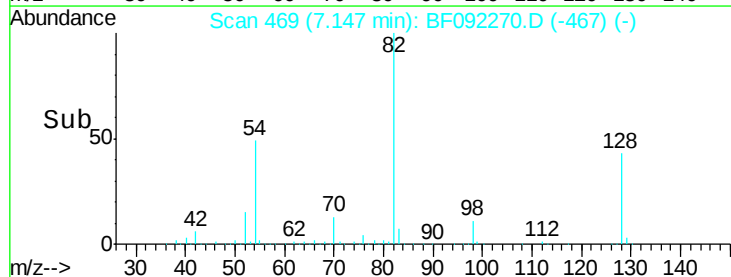
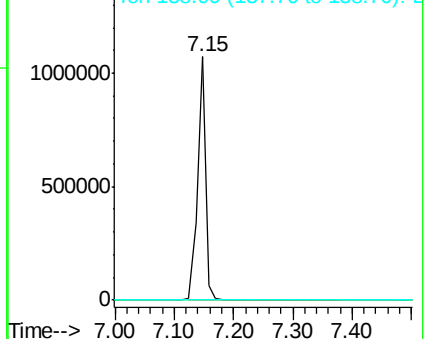
82 100

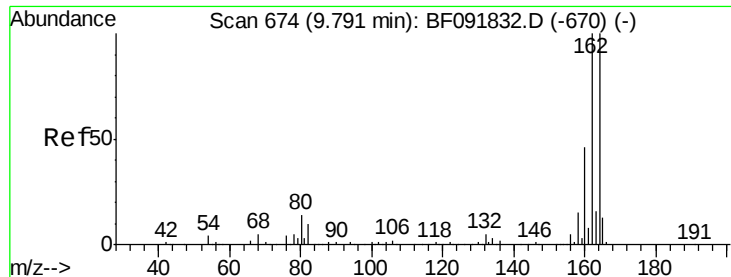
95 0.0 5.6 8.4#

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: 9.60 min Scan# 684

Delta R.T. -0.02 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

Instrument :

BNA_F

ClientSampleId :

TOD-SB-101-0-2

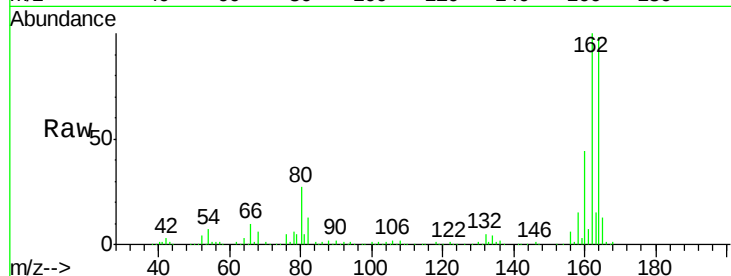
Tgt Ion:164 Resp: 307108

Ion Ratio Lower Upper

164 100

162 101.9 80.2 120.2

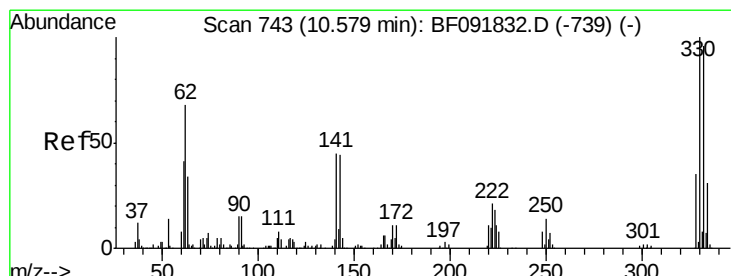
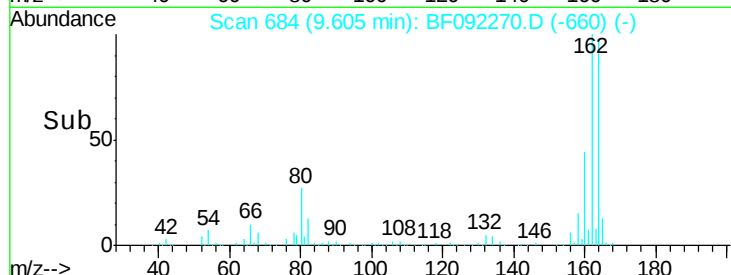
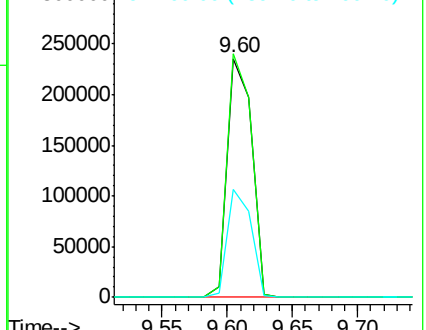
160 45.0 36.9 55.3



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: 100.36 ng

RT: 10.40 min Scan# 754

Delta R.T. -0.01 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

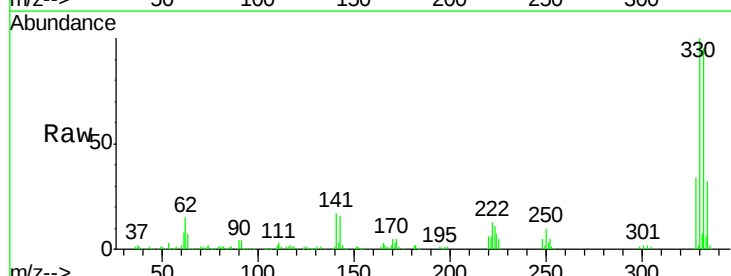
Tgt Ion:330 Resp: 255067

Ion Ratio Lower Upper

330 100

332 95.9 77.4 116.2

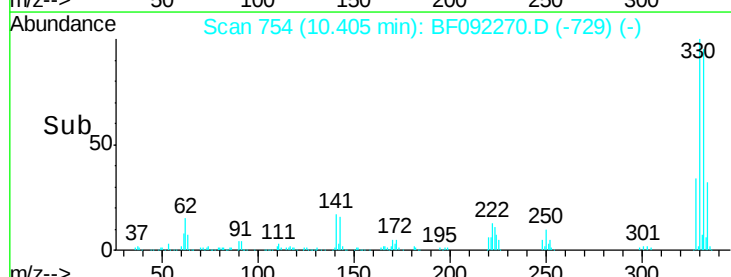
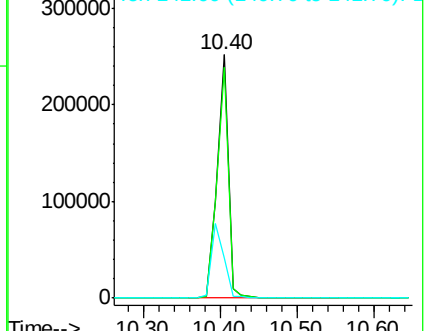
141 34.2 34.1 51.1

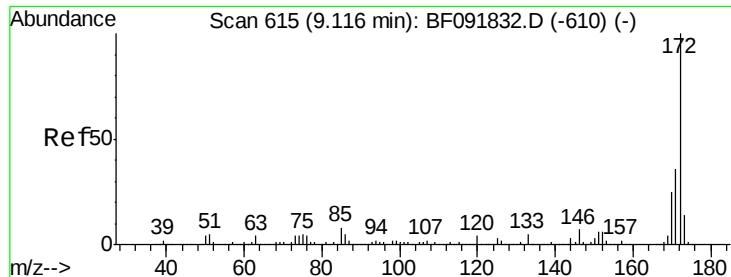


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

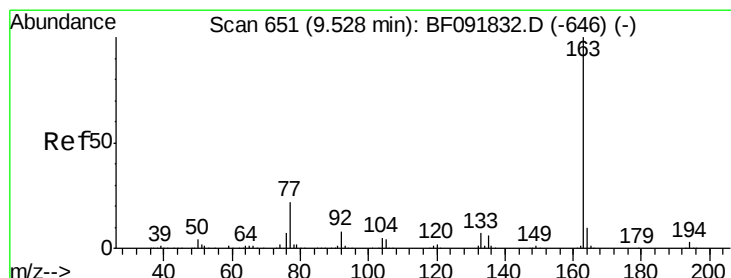
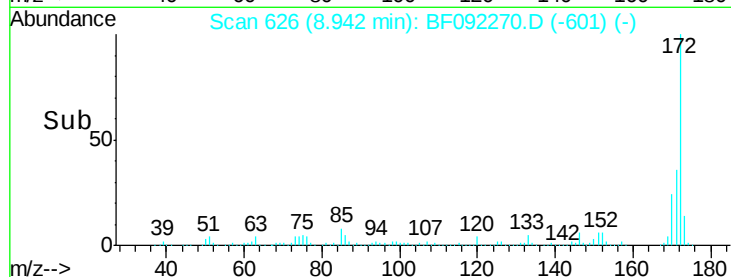
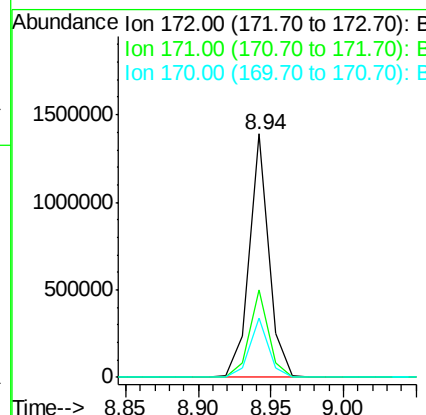
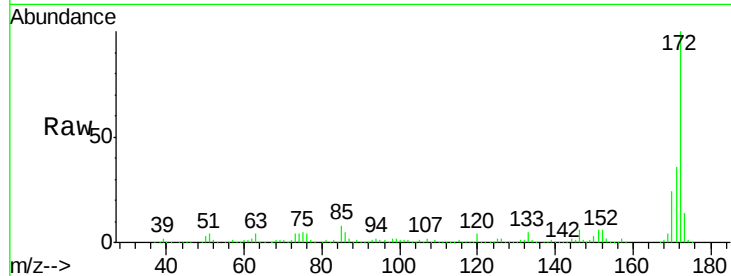




#44
2-Fluorobiphenyl
Concen: 87.38 ng
RT: 8.94 min Scan# 626
Delta R.T. -0.01 min
Lab File: BF092270.D
Acq: 14 Jan 2017 4:30

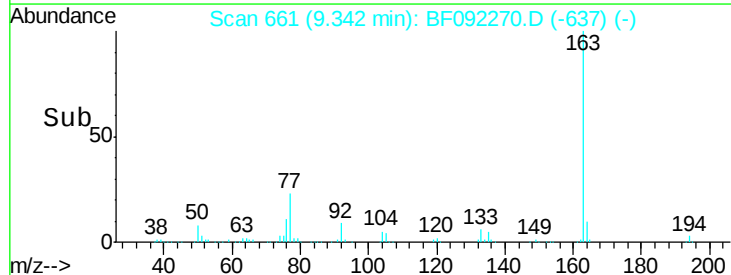
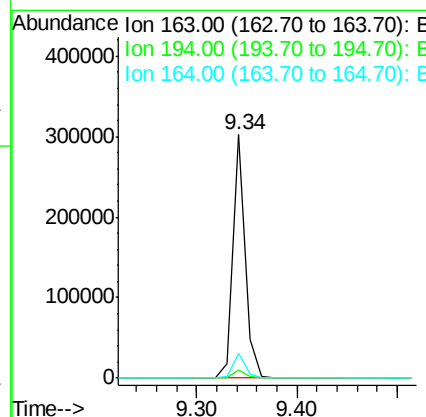
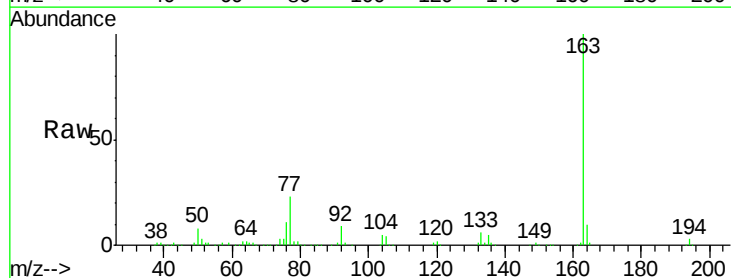
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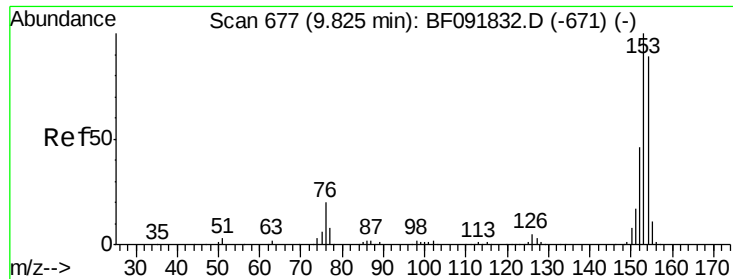
Tgt Ion:172 Resp: 1304301
Ion Ratio Lower Upper
172 100
171 35.7 29.4 44.0
170 24.3 20.2 30.4



#49
Dimethylphthalate
Concen: 13.03 ng
RT: 9.34 min Scan# 661
Delta R.T. -0.02 min
Lab File: BF092270.D
Acq: 14 Jan 2017 4:30

Tgt Ion:163 Resp: 255920
Ion Ratio Lower Upper
163 100
194 3.1 3.0 4.4
164 10.1 8.0 12.0





#51

Acenaphthene

Concen: 2.02 ng

RT: 9.64 min Scan# 687

Delta R.T. -0.02 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

Instrument :

BNA_F

ClientSampleId :

TOD-SB-101-0-2

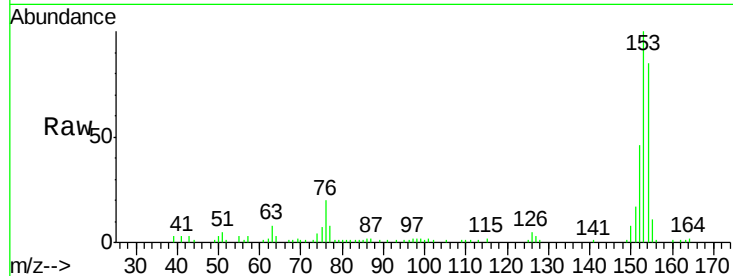
Tgt Ion:154 Resp: 35042

Ion Ratio Lower Upper

154 100

153 117.0 88.6 133.0

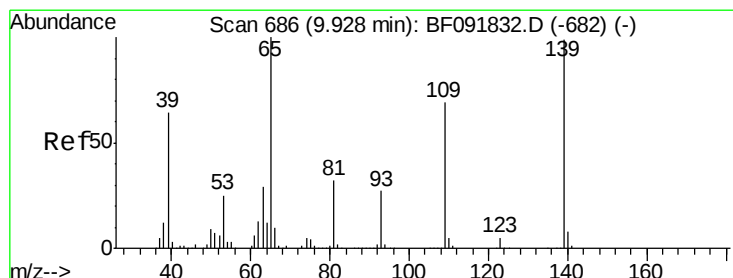
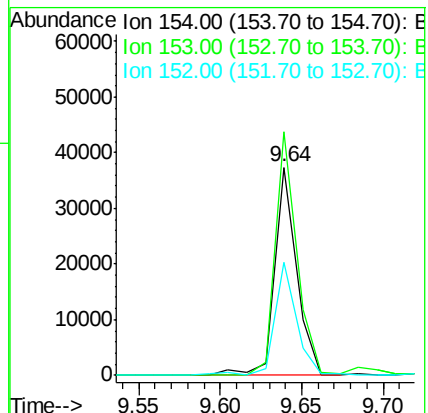
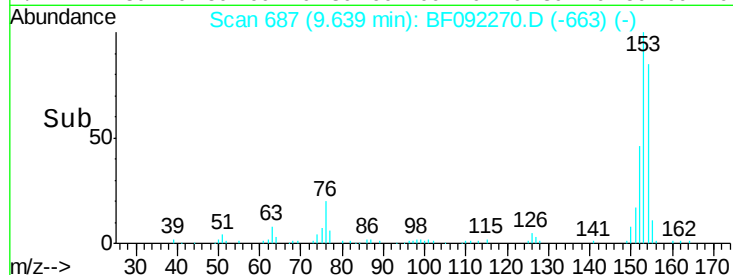
152 54.1 41.6 62.4



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



#55

4-Nitrophenol

Concen: 2.08 ng

RT: 9.81 min Scan# 702

Delta R.T. 0.02 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

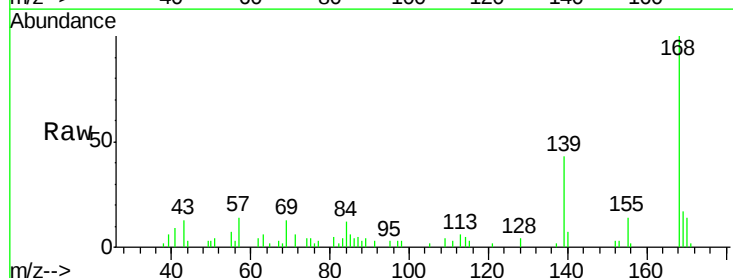
Tgt Ion:139 Resp: 7524

Ion Ratio Lower Upper

139 100

109 8.5 52.2 92.2#

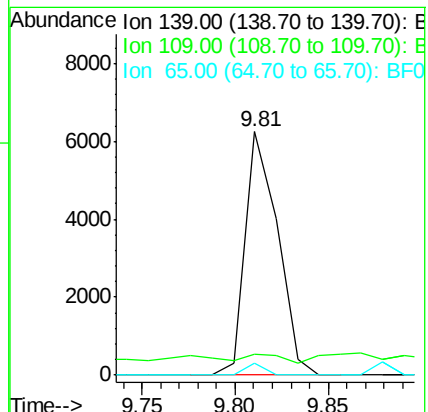
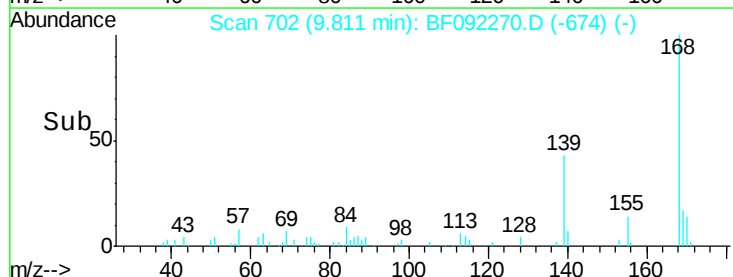
65 5.0 85.8 125.8#

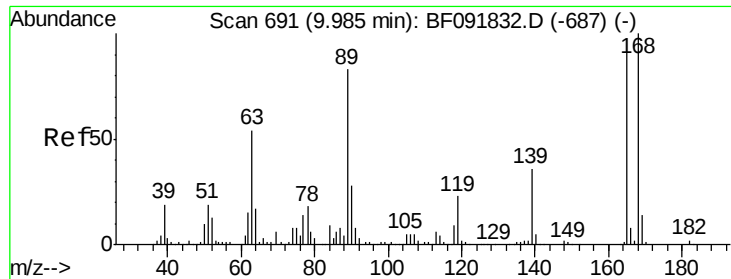


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0





#56

2,4-Dinitrotoluene

Concen: 7.44 ng

RT: 9.60 min Scan# 684

Delta R.T. -0.23 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

Instrument :

BNA_F

ClientSampleId :

TOD-SB-101-0-2

Tgt Ion:165 Resp: 40133

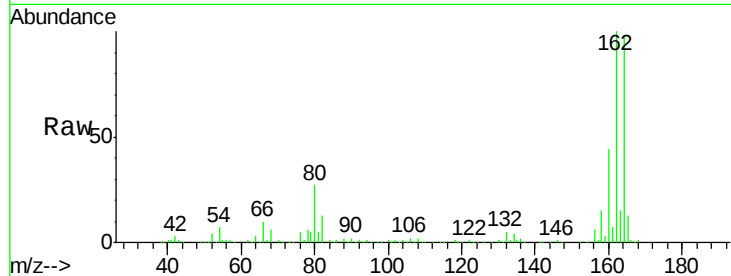
Ion Ratio Lower Upper

165 100

63 1.3 40.2 60.4#

89 1.3 62.5 93.7#

182 0.0 1.8 2.8#

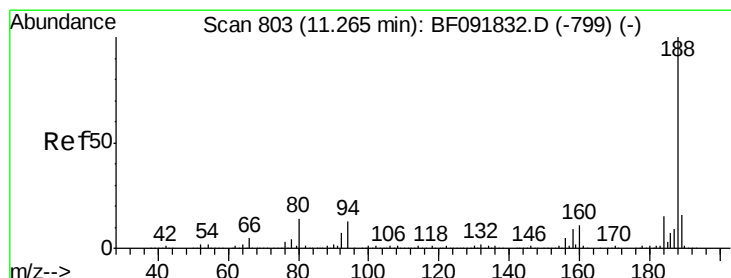
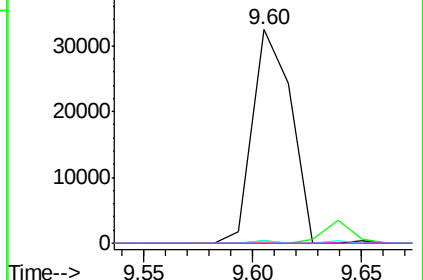
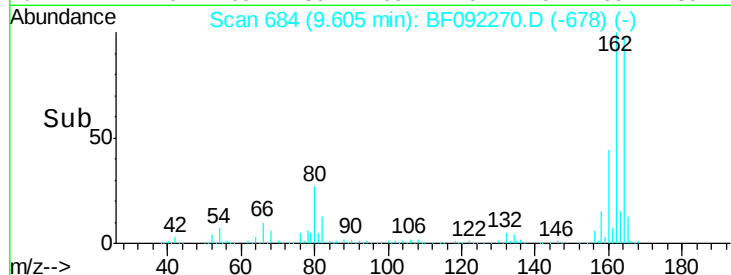


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.09 min Scan# 814

Delta R.T. -0.01 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

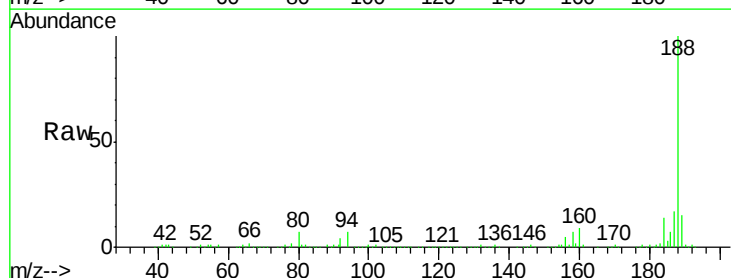
Tgt Ion:188 Resp: 368691

Ion Ratio Lower Upper

188 100

94 6.6 10.0 15.0#

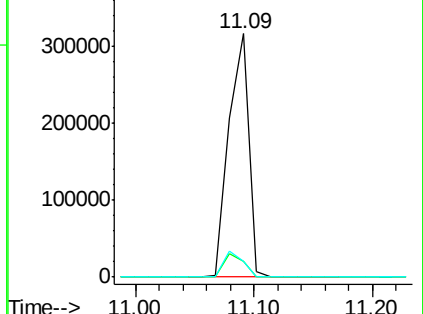
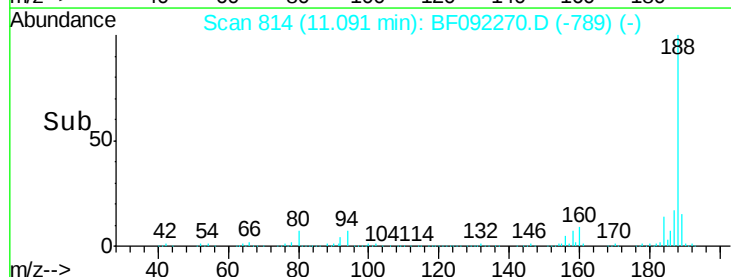
80 6.7 11.2 16.8#

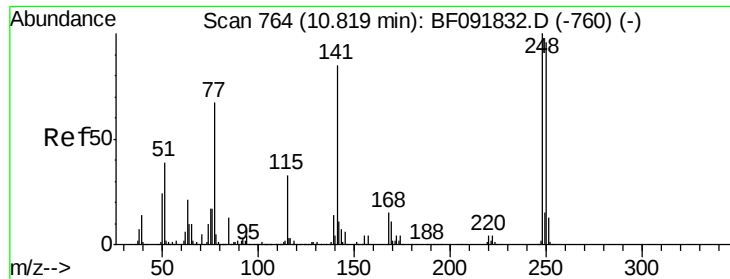


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

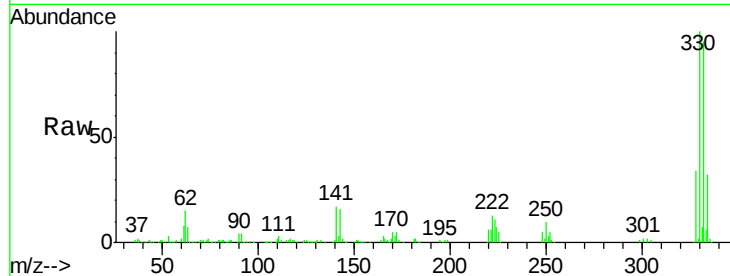




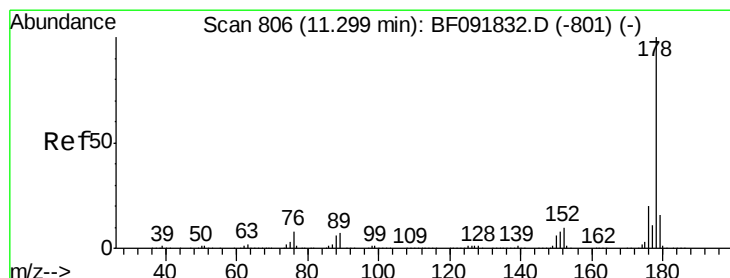
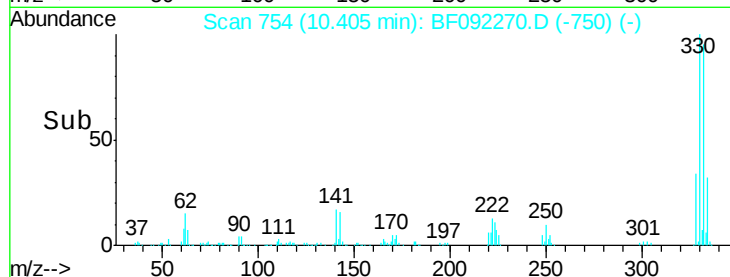
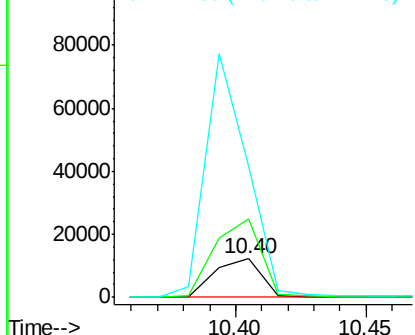
#66
 4-Bromophenyl-phenylether
 Concen: 4.01 ng
 RT: 10.40 min Scan# 754
 Delta R.T. -0.25 min
 Lab File: BF092270.D
 Acq: 14 Jan 2017 4:30

Instrument :
 BNA_F
 ClientSampleId :
 TOD-SB-101-0-2

Tgt Ion:248 Resp: 15376
 Ion Ratio Lower Upper
 248 100
 250 202.1 76.9 115.3#
 141 337.9 68.2 102.4#

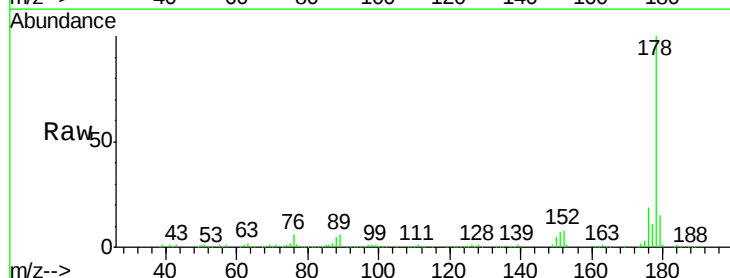


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

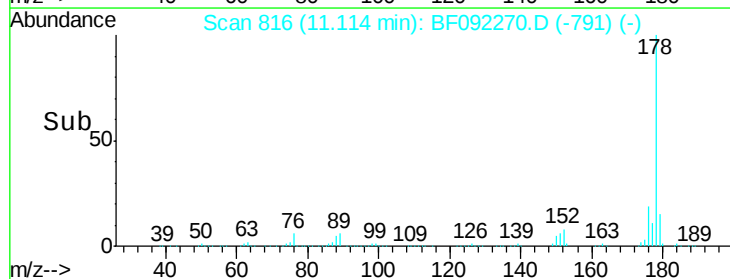
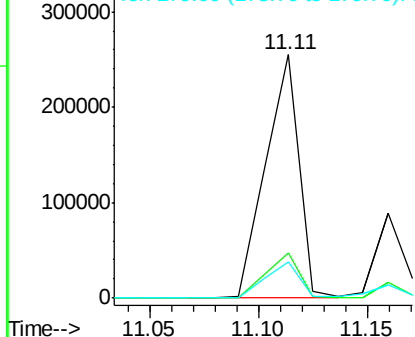


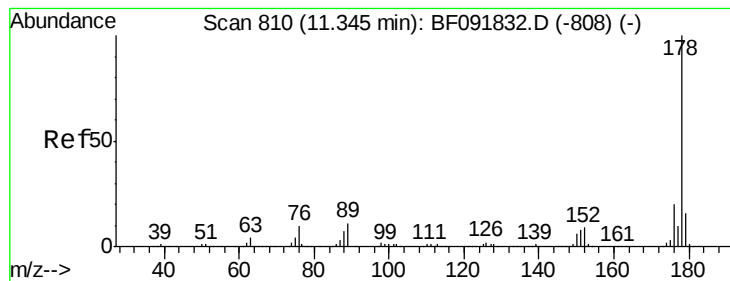
#70
 Phenanthrene
 Concen: 13.64 ng
 RT: 11.11 min Scan# 816
 Delta R.T. -0.01 min
 Lab File: BF092270.D
 Acq: 14 Jan 2017 4:30

Tgt Ion:178 Resp: 272720
 Ion Ratio Lower Upper
 178 100
 176 18.7 16.6 25.0
 179 14.7 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: 2.82 ng

RT: 11.16 min Scan# 820

Delta R.T. -0.02 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

Instrument :

BNA_F

ClientSampleId :

TOD-SB-101-0-2

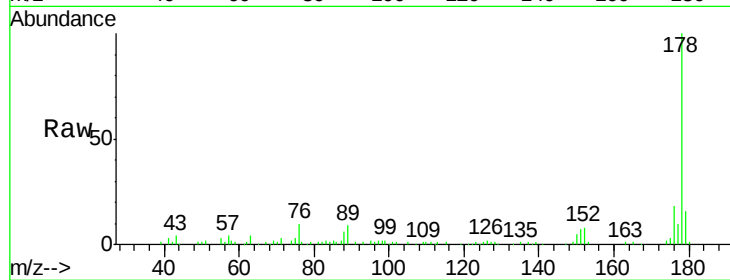
Tgt Ion:178 Resp: 77305

Ion Ratio Lower Upper

178 100

176 18.0 15.9 23.9

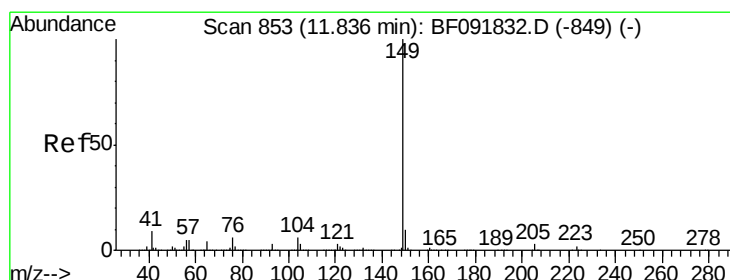
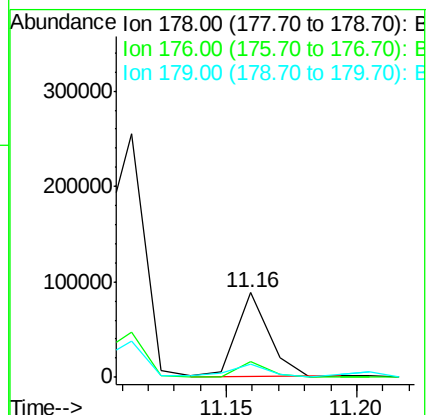
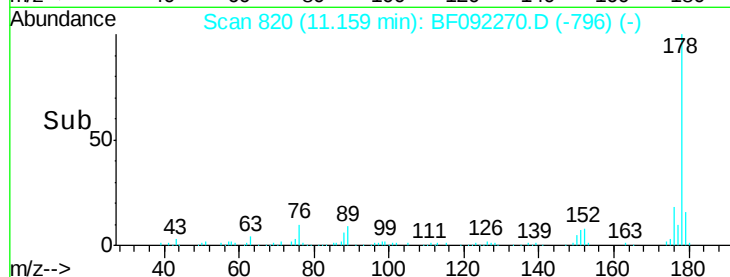
179 16.0 13.2 19.8



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



#73

Di-n-butylphthalate

Concen: Below Cal

RT: 11.66 min Scan# 864

Delta R.T. -0.02 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

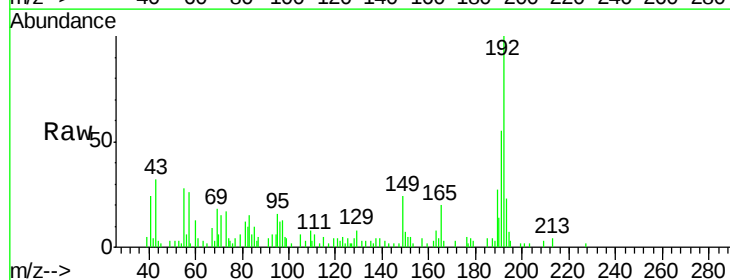
Tgt Ion:149 Resp: 3778

Ion Ratio Lower Upper

149 100

150 27.5 8.1 12.1#

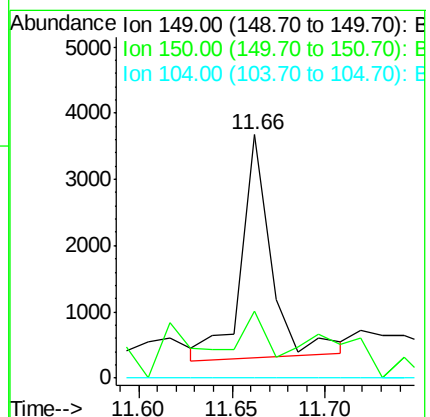
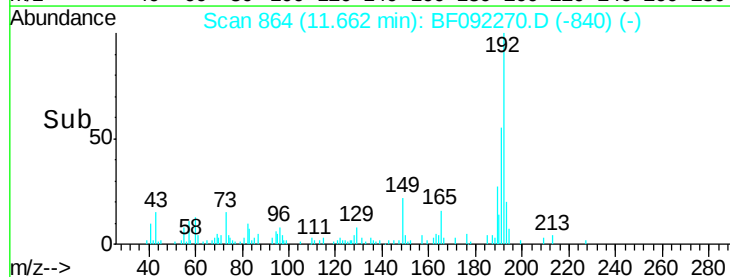
104 0.0 4.6 7.0#

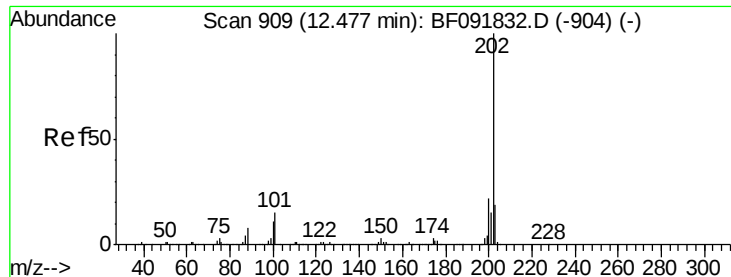


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#74

Fluoranthene

Concen: 20.91 ng

RT: 12.29 min Scan# 919

Delta R.T. -0.01 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

Instrument :

BNA_F

ClientSampleId :

TOD-SB-101-0-2

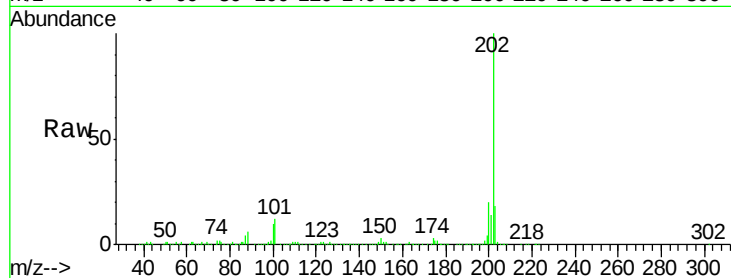
Tgt Ion:202 Resp: 402674

Ion Ratio Lower Upper

202 100

101 11.8 0.0 34.6

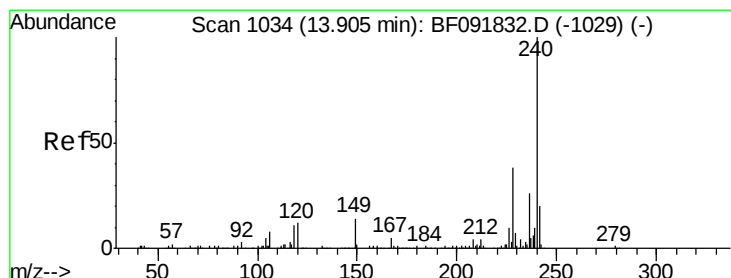
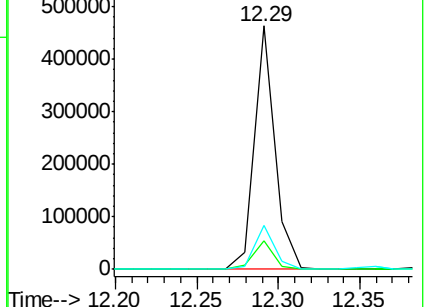
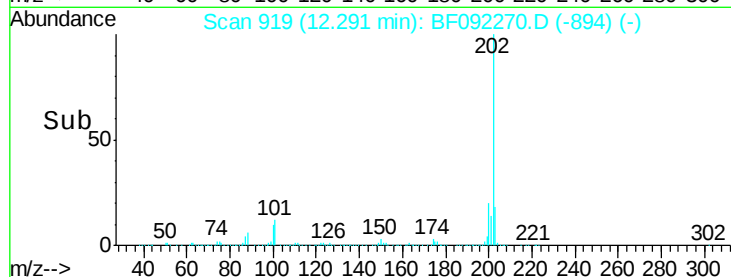
203 18.1 0.0 38.7



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: 13.72 min Scan# 1044

Delta R.T. -0.01 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

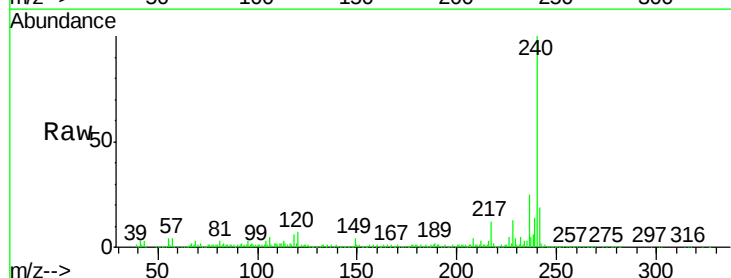
Tgt Ion:240 Resp: 319767

Ion Ratio Lower Upper

240 100

120 7.1 12.9 19.3#

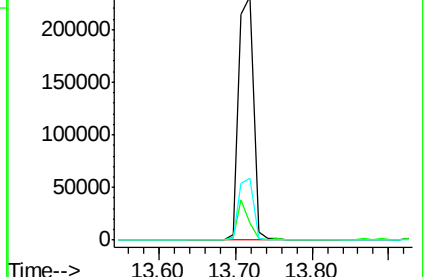
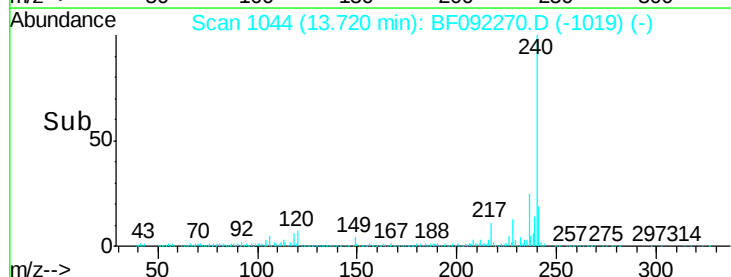
236 25.3 20.9 31.3

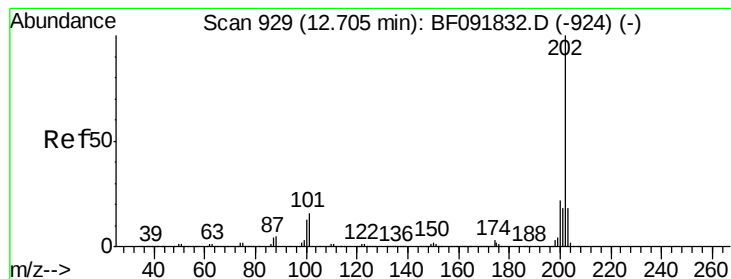


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 15.60 ng

RT: 12.52 min Scan# 939

Delta R.T. -0.01 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

Instrument :

BNA_F

ClientSampleId :

TOD-SB-101-0-2

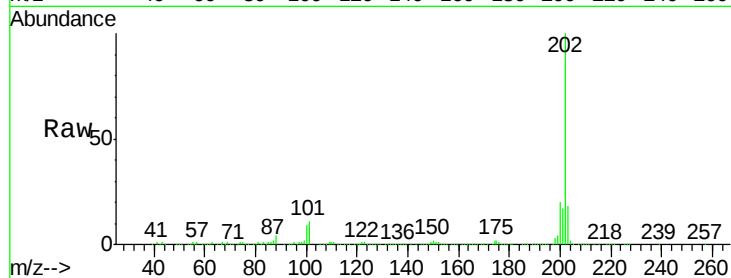
Tgt Ion:202 Resp: 365884

Ion Ratio Lower Upper

202 100

200 20.1 17.7 26.5

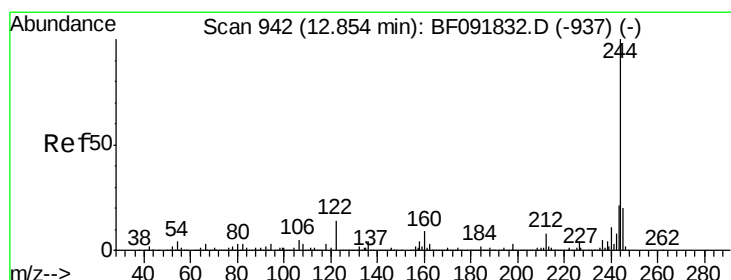
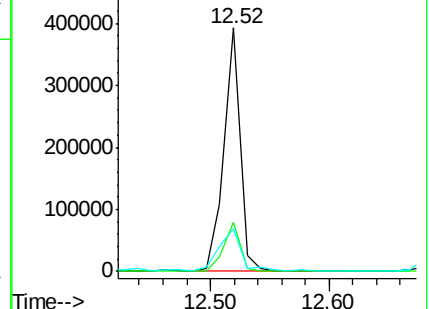
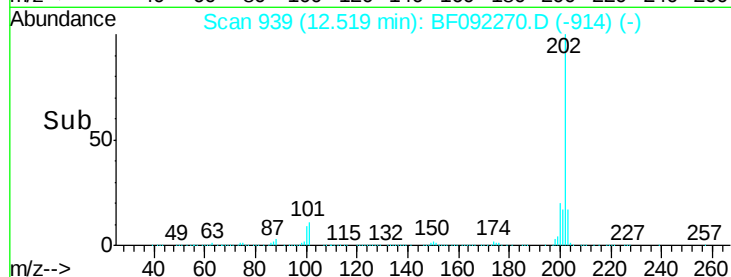
203 17.5 14.7 22.1



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: 64.57 ng

RT: 12.67 min Scan# 952

Delta R.T. -0.02 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

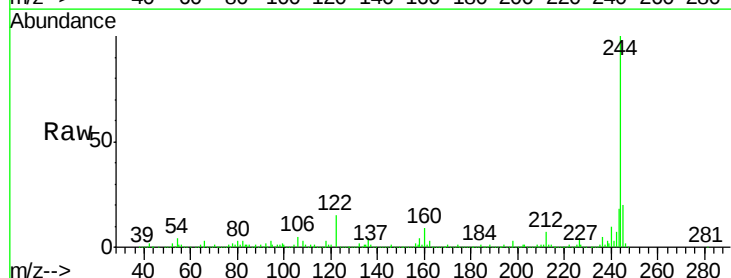
Tgt Ion:244 Resp: 851377

Ion Ratio Lower Upper

244 100

212 7.4 6.2 9.2

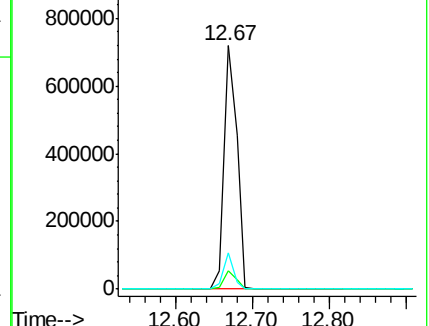
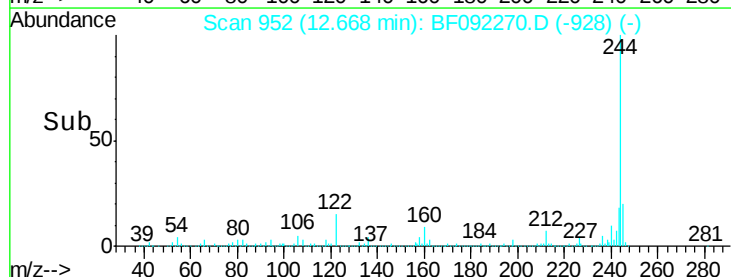
122 15.0 11.4 17.2

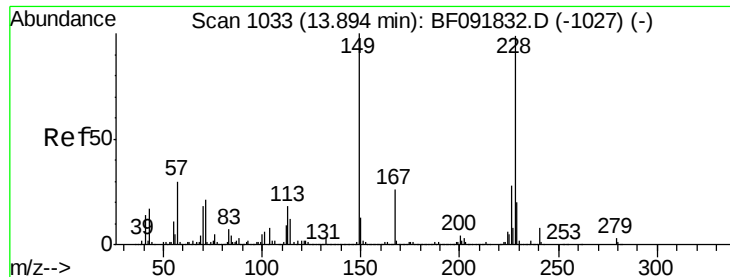


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 11.64 ng

RT: 13.71 min Scan# 1043

Delta R.T. -0.01 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

Instrument :

BNA_F

ClientSampleId :

TOD-SB-101-0-2

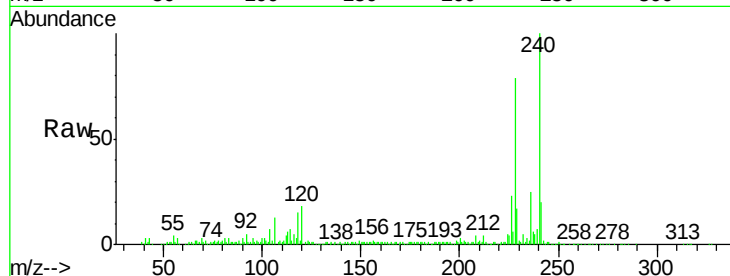
Tgt Ion:228 Resp: 210098

Ion Ratio Lower Upper

228 100

226 28.6 22.4 33.6

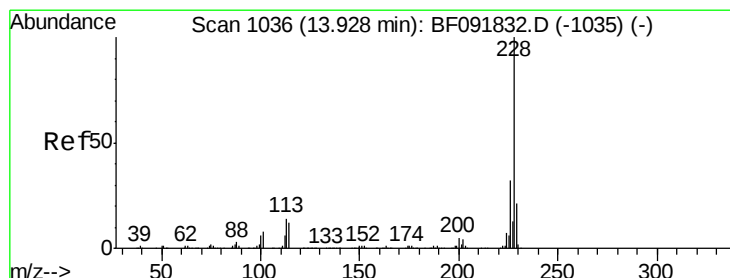
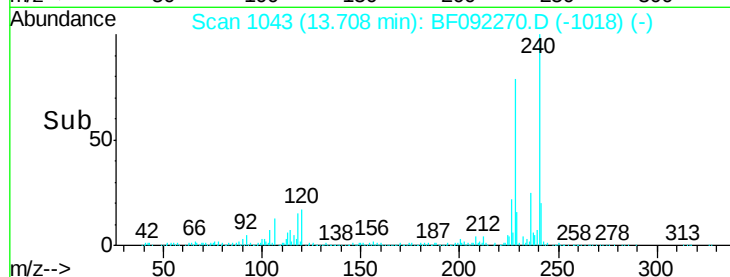
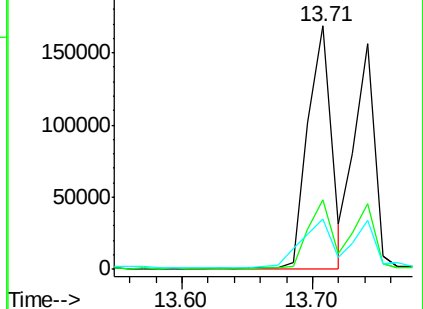
229 20.9 16.2 24.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 11.60 ng

RT: 13.71 min Scan# 1043

Delta R.T. -0.05 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

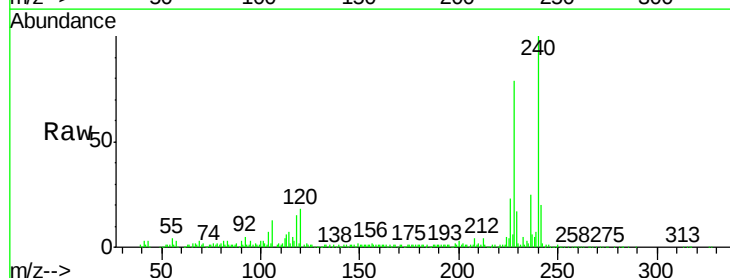
Tgt Ion:228 Resp: 210098

Ion Ratio Lower Upper

228 100

226 28.6 25.4 38.0

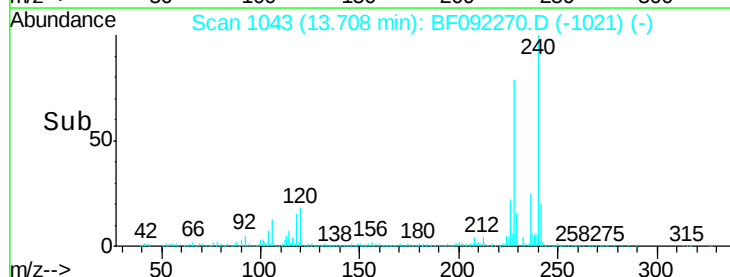
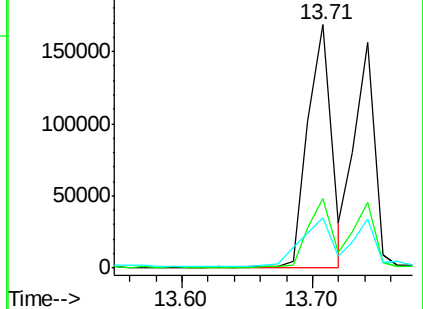
229 20.9 16.2 24.2

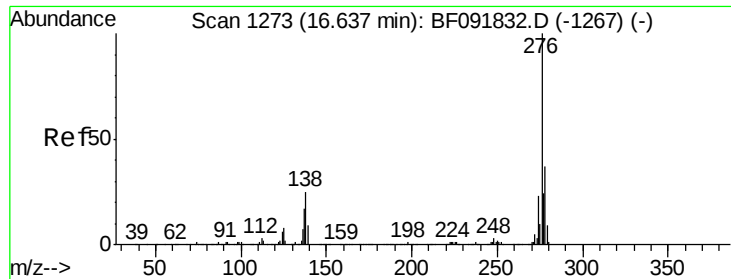


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

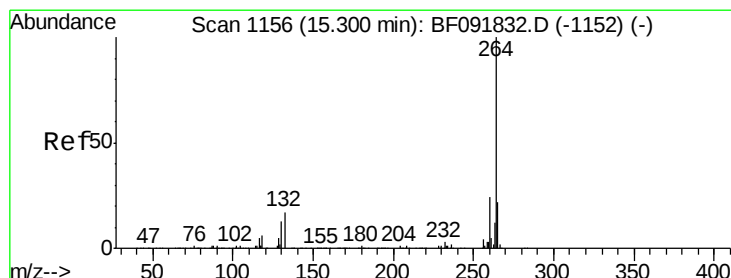
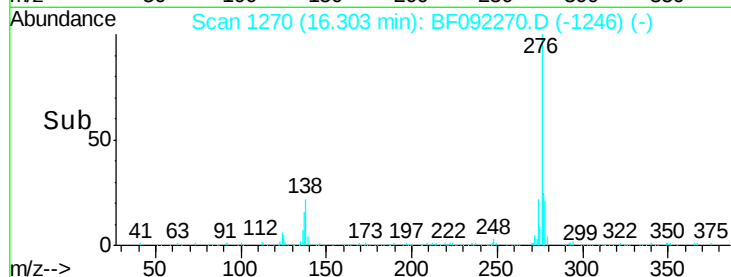
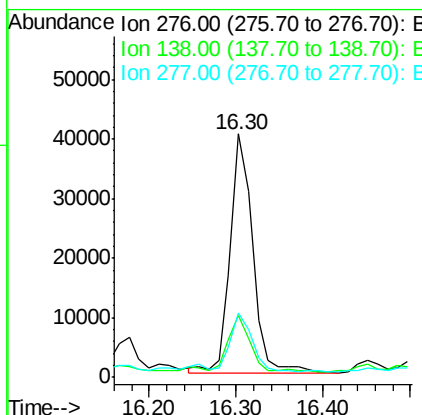
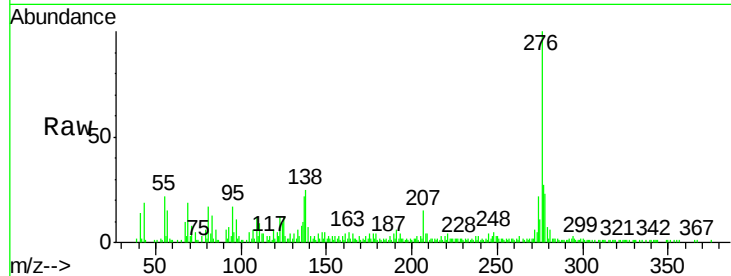




#85
Indeno(1,2,3-cd)pyrene
Concen: 4.60 ng
RT: 16.30 min Scan# 1270
Delta R.T. -0.02 min
Lab File: BF092270.D
Acq: 14 Jan 2017 4:30

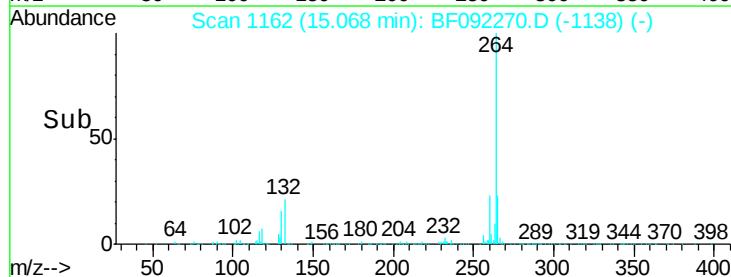
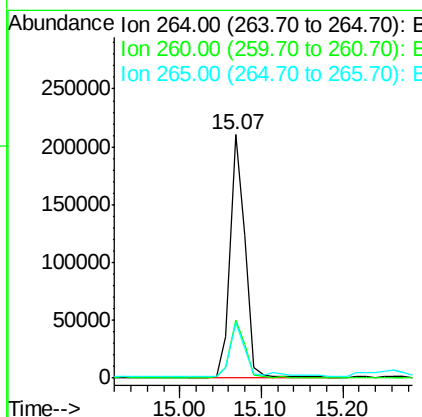
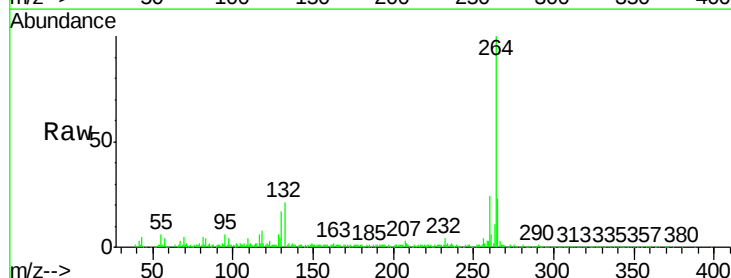
Instrument :
BNA_F
ClientSampleId :
TOD-SB-101-0-2

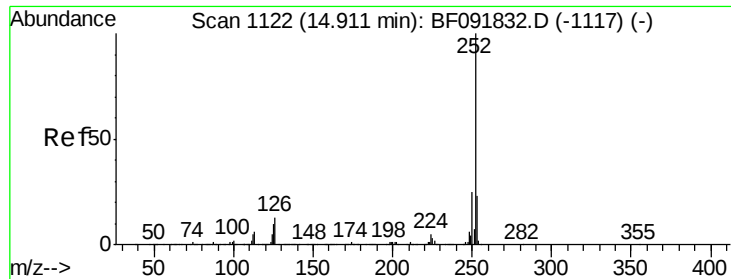
Tgt Ion: 276 Resp: 72169
Ion Ratio Lower Upper
276 100
138 20.8 21.8 32.6#
277 28.9 20.2 30.4



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.07 min Scan# 1162
Delta R.T. -0.02 min
Lab File: BF092270.D
Acq: 14 Jan 2017 4:30

Tgt Ion: 264 Resp: 266144
Ion Ratio Lower Upper
264 100
260 23.6 19.2 28.8
265 22.9 17.4 26.0





#87

Benzo(b)fluoranthene

Concen: 16.65 ng

RT: 14.71 min Scan# 1131

Delta R.T. -0.01 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

Instrument :

BNA_F

ClientSampleId :

TOD-SB-101-0-2

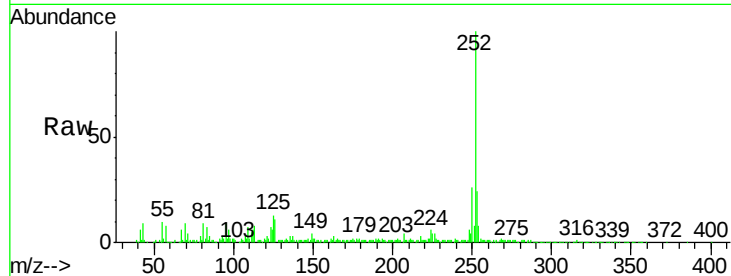
Tgt Ion:252 Resp: 275964

Ion Ratio Lower Upper

252 100

253 23.6 18.2 27.4

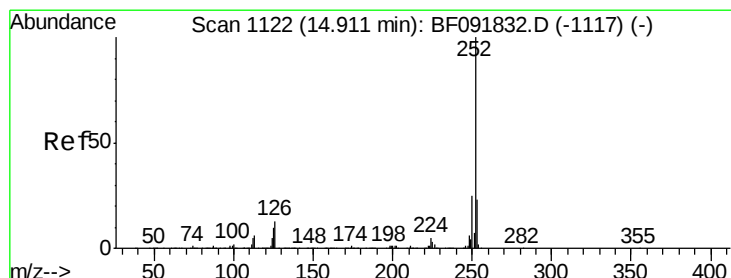
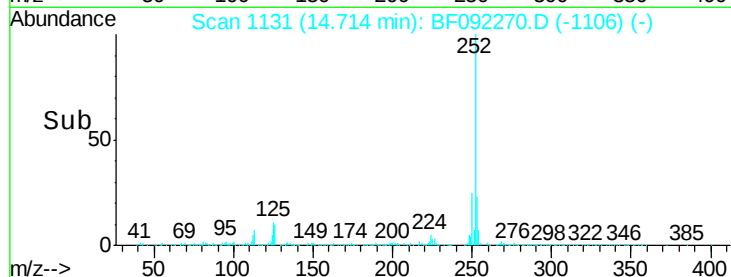
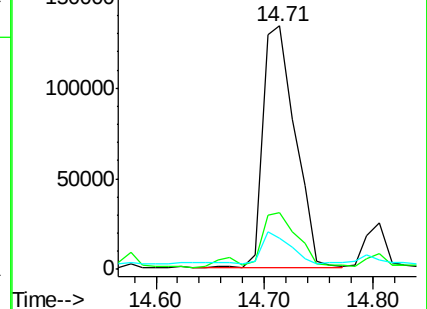
125 13.0 9.8 14.6



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



#88

Benzo(k)fluoranthene

Concen: 19.53 ng

RT: 14.71 min Scan# 1131

Delta R.T. -0.03 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

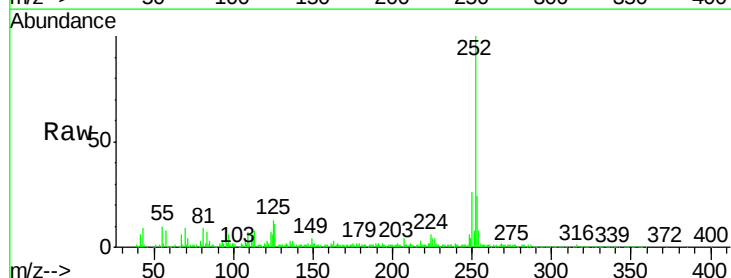
Tgt Ion:252 Resp: 275964

Ion Ratio Lower Upper

252 100

253 23.6 18.5 27.7

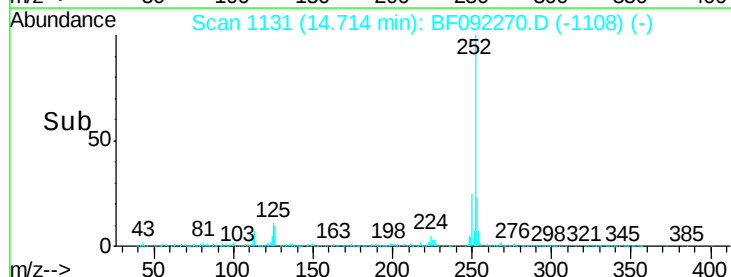
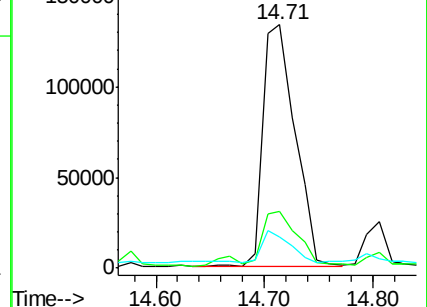
125 13.0 8.9 13.3

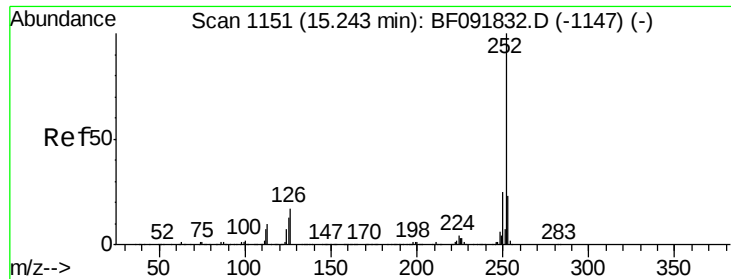


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 9.76 ng

RT: 15.02 min Scan# 1158

Delta R.T. -0.01 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

Instrument :

BNA_F

ClientSampleId :

TOD-SB-101-0-2

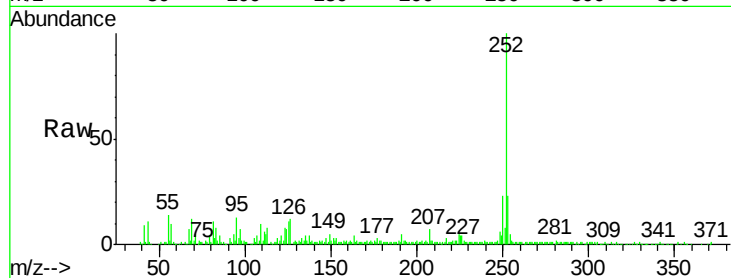
Tgt Ion: 252 Resp: 143574

Ion Ratio Lower Upper

252 100

253 23.1 18.2 27.2

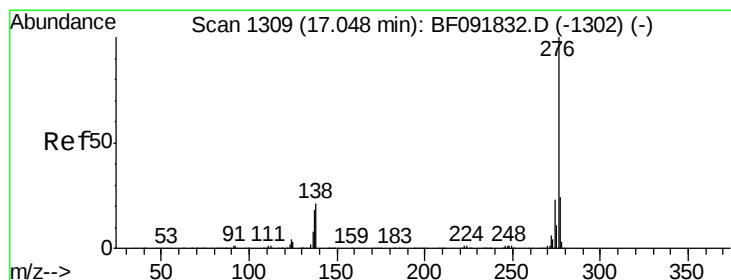
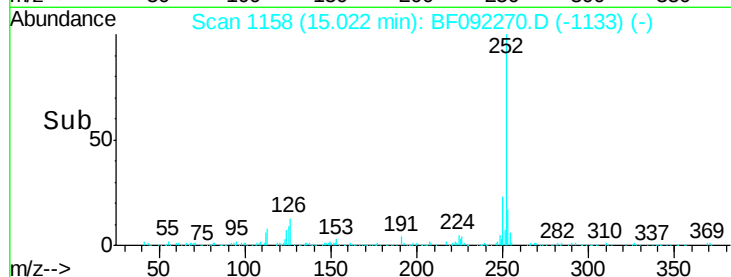
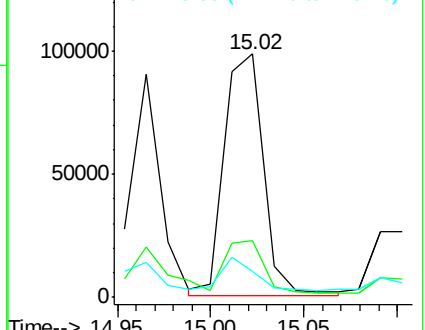
125 10.7 10.0 15.0



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: 5.23 ng

RT: 16.67 min Scan# 1302

Delta R.T. -0.03 min

Lab File: BF092270.D

Acq: 14 Jan 2017 4:30

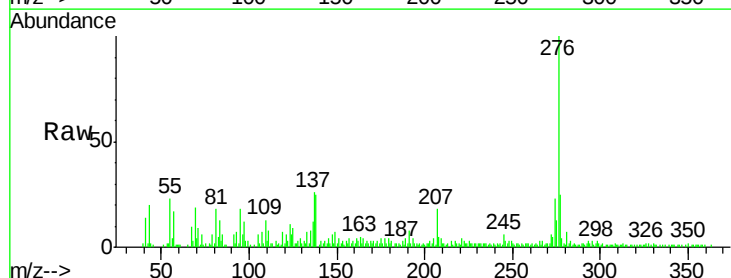
Tgt Ion: 276 Resp: 65703

Ion Ratio Lower Upper

276 100

277 24.9 19.2 28.8

138 24.7 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

