

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE051816\
 Data File : BE091796.D
 Acq On : 18 May 2016 19:44
 Operator : UM/SJ
 Sample : H3065-11
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SS043MW009-160511

Quant Time: May 19 00:39:02 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE042616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 26 16:09:46 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.78	152	34945	5.00	ng	-0.02
7) Naphthalene-d8	10.57	136	184725	5.00	ng	0.00
13) Acenaphthene-d10	14.40	164	120283	5.00	ng	-0.01
19) Phenanthrene-d10	17.14	188	270980	5.00	ng	-0.01
26) Chrysene-d12	21.29	240	278421	5.00	ng	-0.02
35) Perylene-d12	23.74	264	290154	5.00	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	23238	2.71	ng	0.00
5) Phenol-d6	6.99	99	23838	2.09	ng	0.03
8) Nitrobenzene-d5	8.93	82	43258	3.63	ng	-0.01
14) 2,4,6-Tribromophenol	15.88	330	38318	8.55	ng	-0.01
15) 2-Fluorobiphenyl	13.02	172	119964	3.53	ng	-0.01
29) Terphenyl-d14	19.74	244	187839	4.33	ng	-0.02

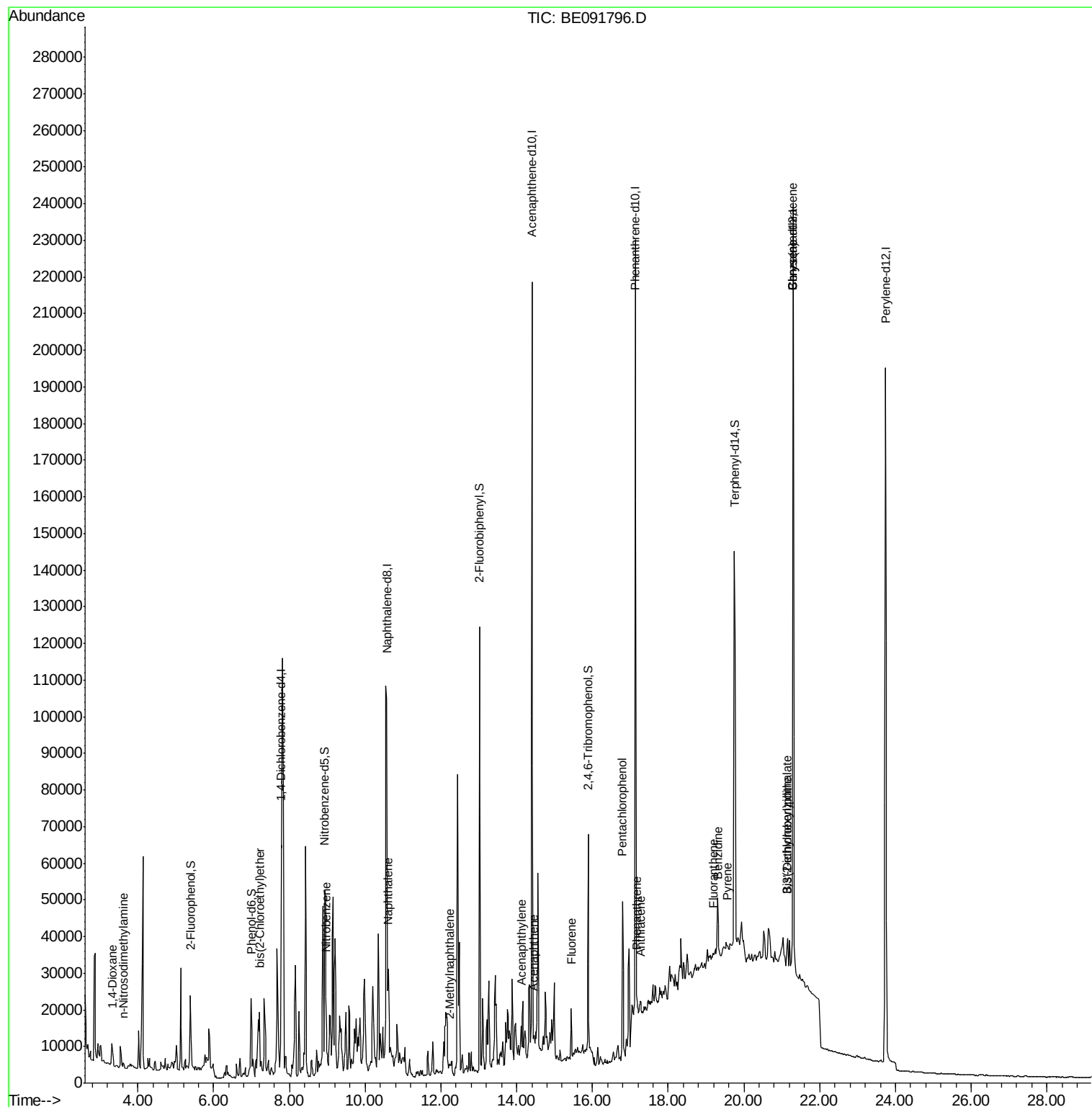
Target Compounds						Qvalue
2) 1,4-Dioxane	3.33	88	3013	0.65	ng	# 33
3) n-Nitrosodimethylamine	3.63	42	291	0.05	ng	# 8
6) bis(2-Chloroethyl)ether	7.21	93	15949	1.59	ng	# 43
9) Nitrobenzene	8.97	77	15593	1.25	ng	# 47
10) Naphthalene	10.61	128	33011	0.88	ng	# 61
12) 2-Methylnaphthalene	12.23	142	2293	0.10	ng	# 1
16) Acenaphthylene	14.12	152	11921	0.26	ng	# 47
17) Acenaphthene	14.46	154	3615	0.12	ng	# 82
18) Fluorene	15.44	166	9466	0.25	ng	96
22) Pentachlorophenol	16.79	266	497	0.19	ng	97
23) Phenanthrene	17.17	178	8627	0.14	ng	# 60
24) Anthracene	17.26	178	3877	0.07	ng	# 30
25) Fluoranthene	19.19	202	1345	0.02	ng	# 1
27) Benzidine	19.32	184	710	0.19	ng	# 1
28) Pyrene	19.55	202	7692	0.12	ng	# 76
30) Benzo(a)anthracene	21.29	228	2953	0.04	ng	# 1
31) 3,3'-Dichlorobenzidine	21.15	252	926	0.03	ng	# 1
32) Chrysene	21.29	228	3818	0.05	ng	# 1
33) Bis(2-ethylhexyl)phthalate	21.15	149	11981	0.58	ng	# 57

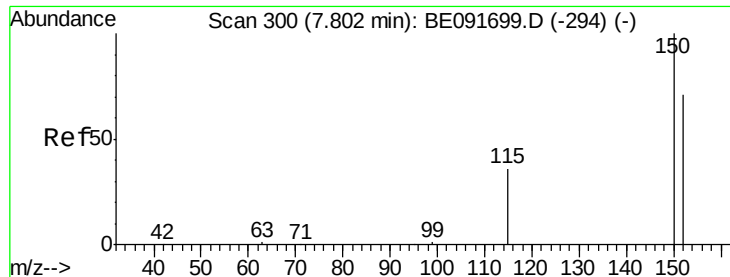
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.78 min Scan# 299

Delta R.T. -0.02 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

Instrument :

BNA_E

ClientSampleId :

SS043MW009-160511

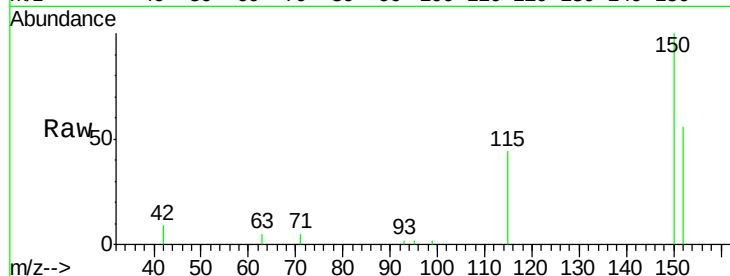
Tgt Ion:152 Resp: 34945

Ion Ratio Lower Upper

152 100

150 177.0 122.6 183.8

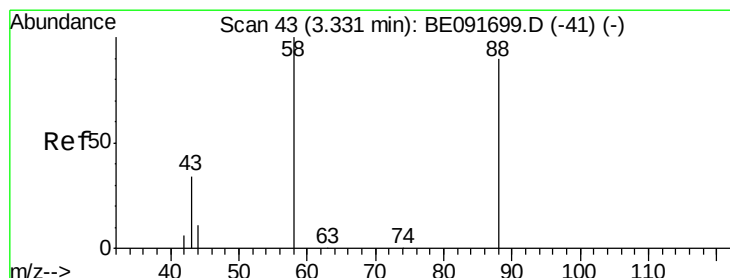
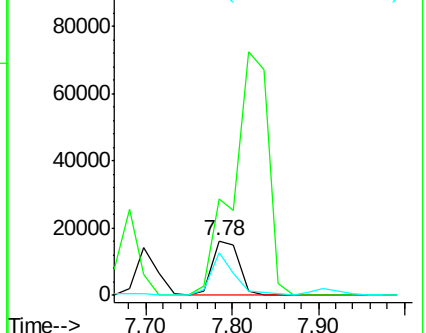
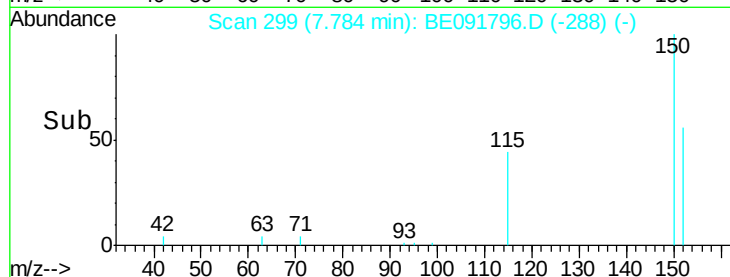
115 77.8 52.8 79.2



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



#2

1,4-Dioxane

Concen: 0.65 ng

RT: 3.33 min Scan# 43

Delta R.T. 0.00 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

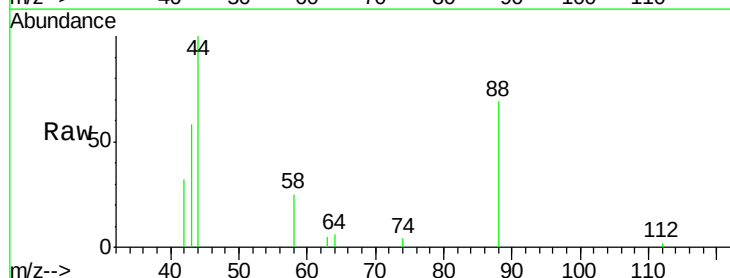
Tgt Ion: 88 Resp: 3013

Ion Ratio Lower Upper

88 100

58 100.8 65.8 98.6#

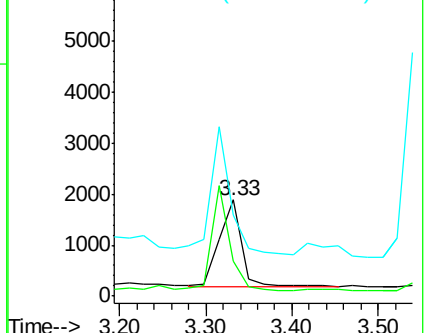
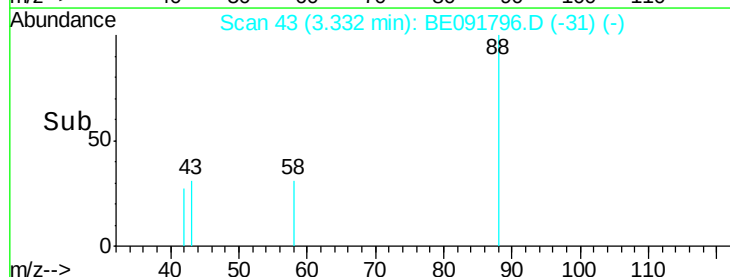
43 136.4 25.3 37.9#

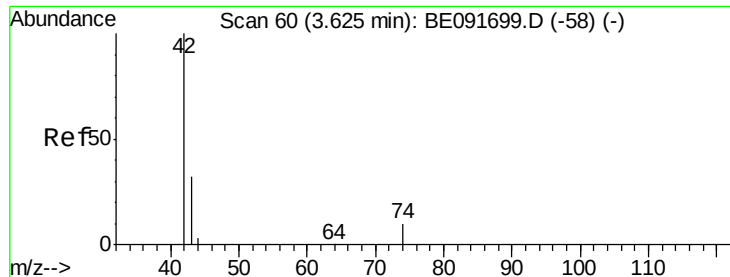


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.05 ng

RT: 3.63 min Scan# 60

Delta R.T. 0.00 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

Instrument :

BNA_E

ClientSampleId :

SS043MW009-160511

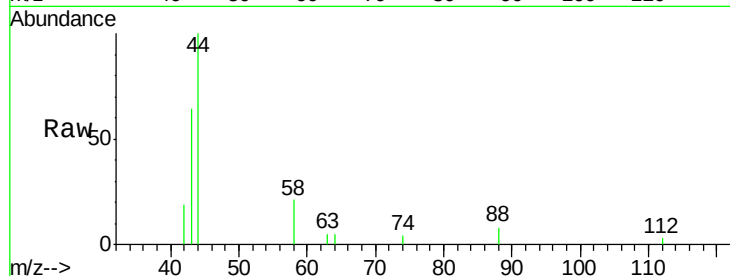
Tgt Ion: 42 Resp: 291

Ion Ratio Lower Upper

42 100

74 7.6 87.9 131.9#

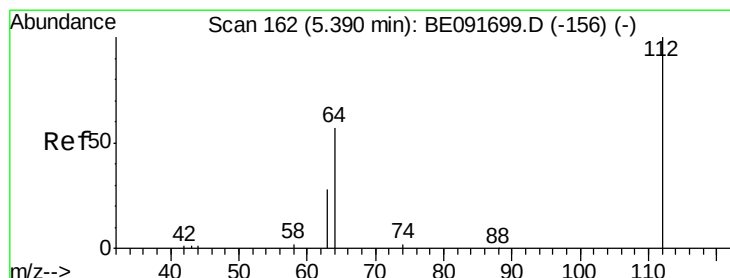
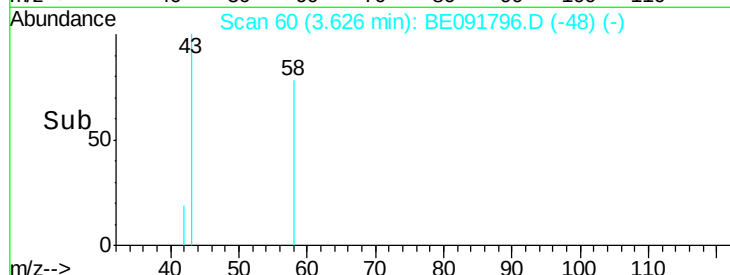
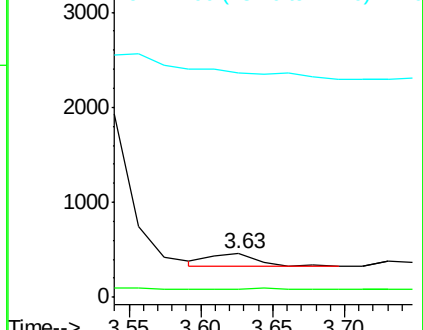
44 0.0 6.6 9.8#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 2.71 ng

RT: 5.39 min Scan# 162

Delta R.T. 0.00 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

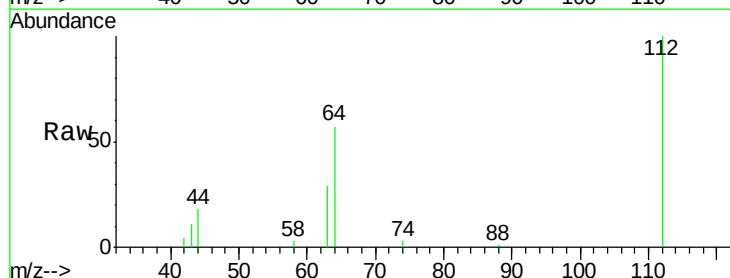
Tgt Ion: 112 Resp: 23238

Ion Ratio Lower Upper

112 100

64 67.9 30.9 46.3#

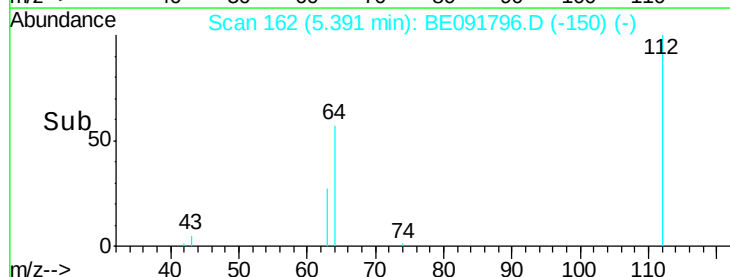
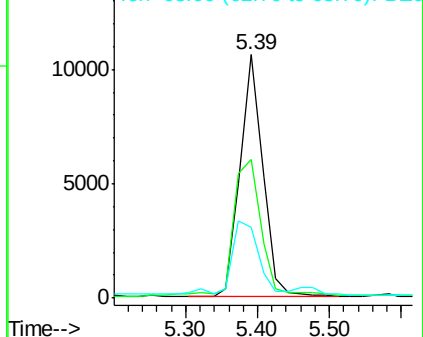
63 35.3 16.7 25.1#

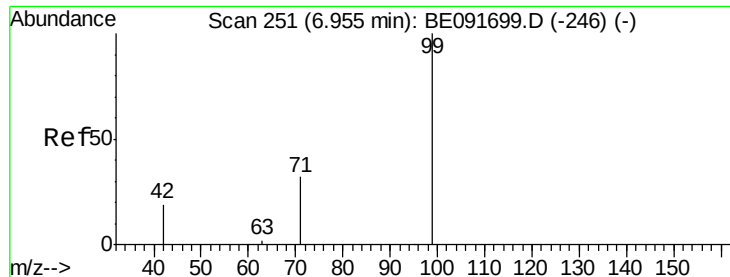


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 2.09 ng

RT: 6.99 min Scan# 253

Delta R.T. 0.03 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

Instrument :

BNA_E

ClientSampleId :

SS043MW009-160511

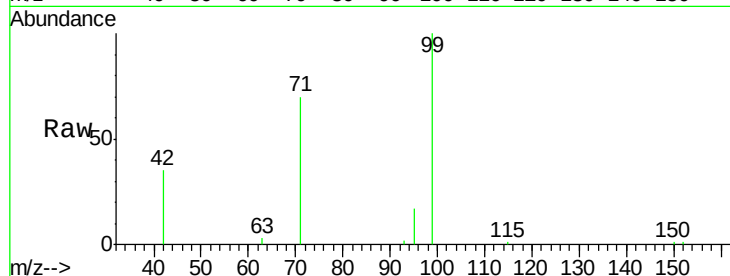
Tgt Ion: 99 Resp: 23838

Ion Ratio Lower Upper

99 100

42 28.4 16.2 24.2#

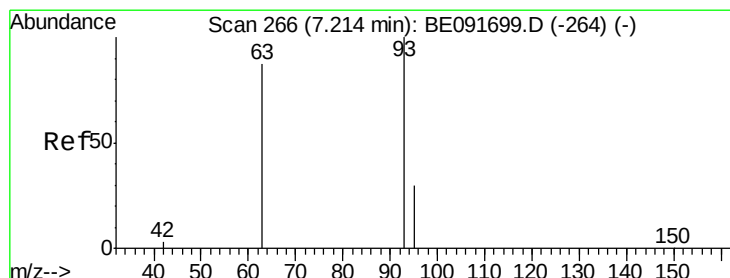
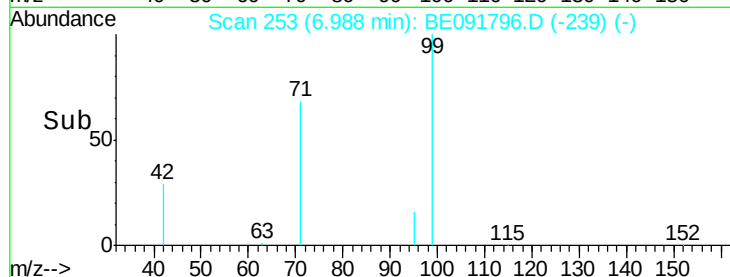
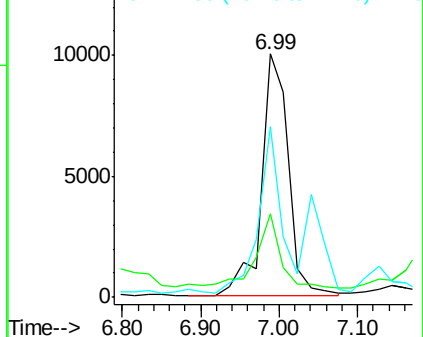
71 60.1 29.0 43.4#



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 1.59 ng

RT: 7.21 min Scan# 266

Delta R.T. -0.00 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

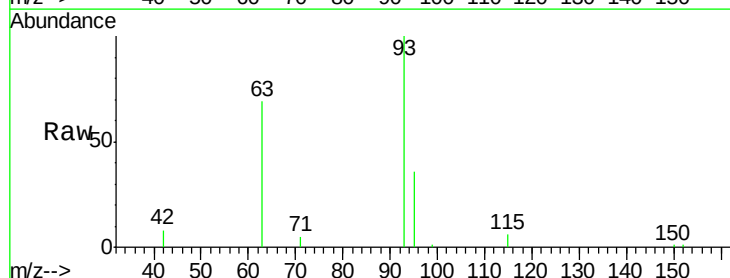
Tgt Ion: 93 Resp: 15949

Ion Ratio Lower Upper

93 100

63 0.0 49.5 74.3#

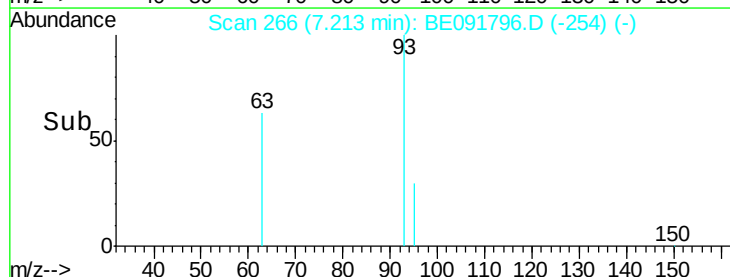
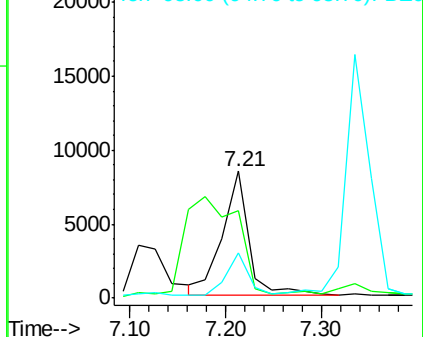
95 29.6 22.2 33.4

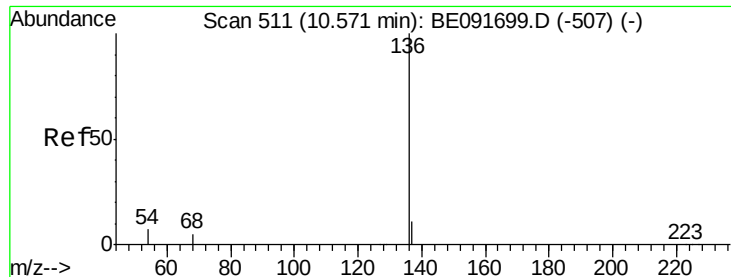


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.57 min Scan# 511

Delta R.T. 0.00 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

Instrument :

BNA_E

ClientSampleId :

SS043MW009-160511

Tgt Ion: 136 Resp: 184725

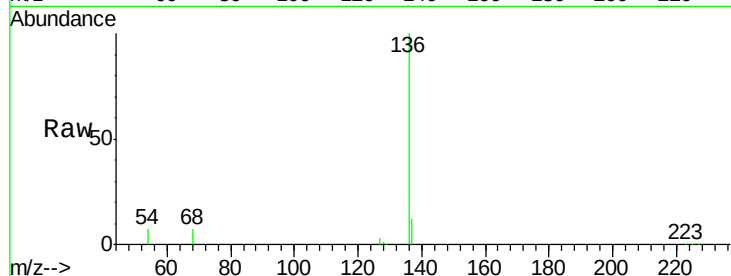
Ion Ratio Lower Upper

136 100

137 12.4 8.9 13.3

54 6.6 8.2 12.4#

68 6.9 6.2 9.4

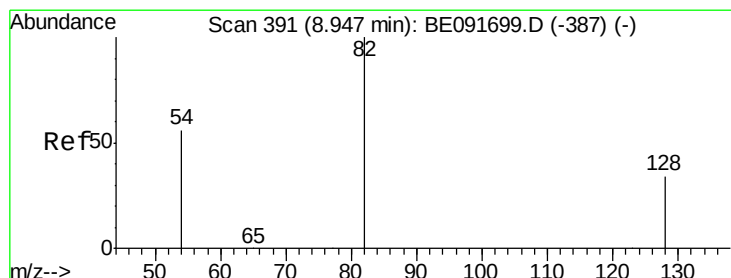
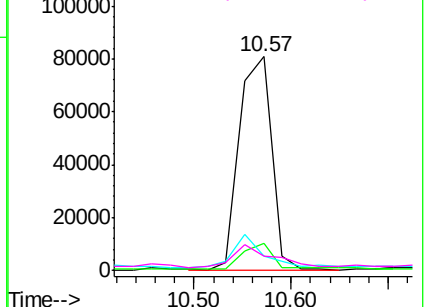
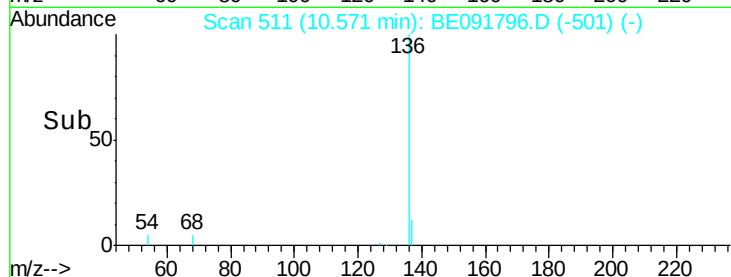


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 3.63 ng

RT: 8.93 min Scan# 390

Delta R.T. -0.01 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

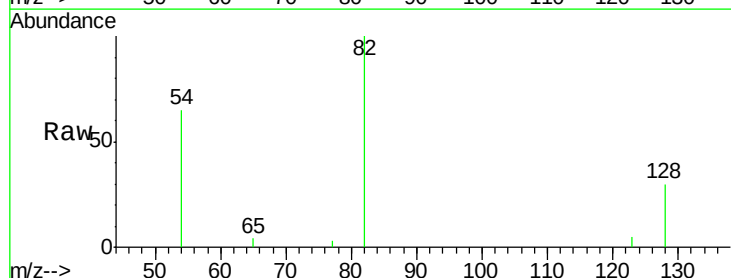
Tgt Ion: 82 Resp: 43258

Ion Ratio Lower Upper

82 100

128 30.1 25.4 38.0

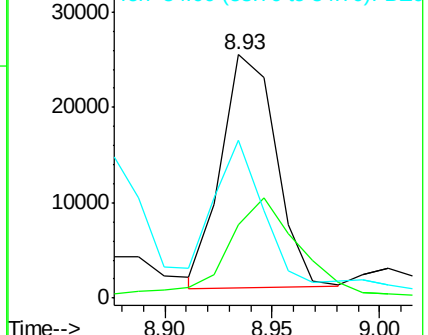
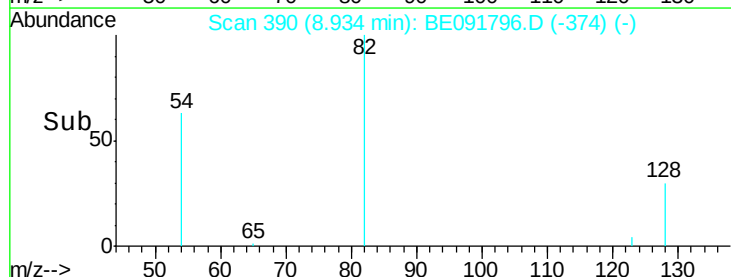
54 64.7 48.4 72.6

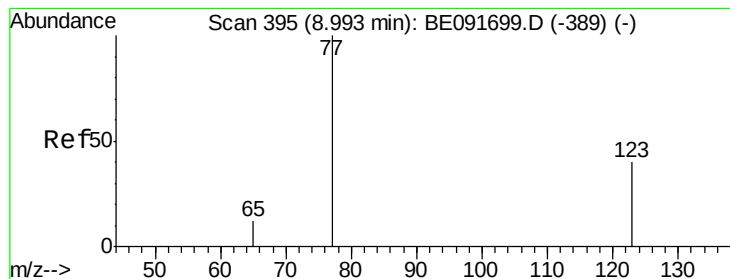


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 1.25 ng

RT: 8.97 min Scan# 393

Delta R.T. -0.02 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

Instrument :

BNA_E

ClientSampleId :

SS043MW009-160511

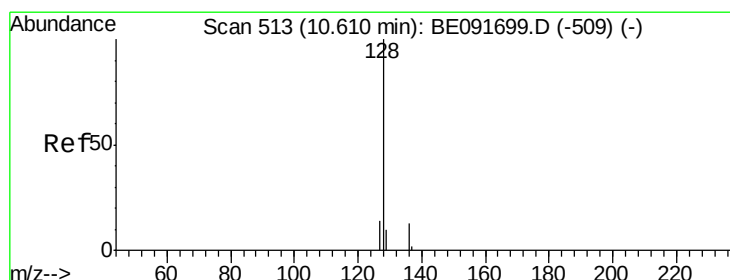
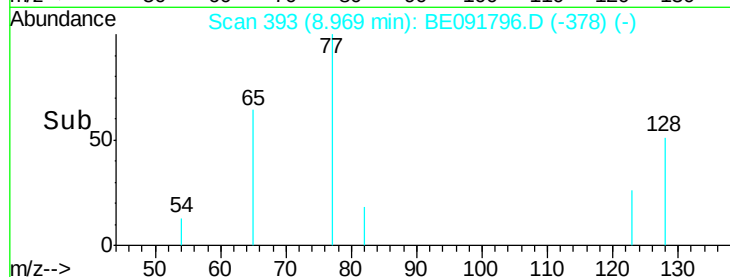
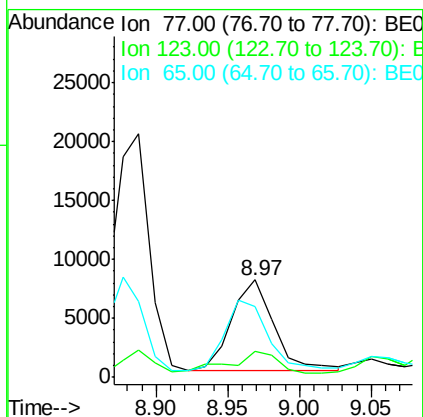
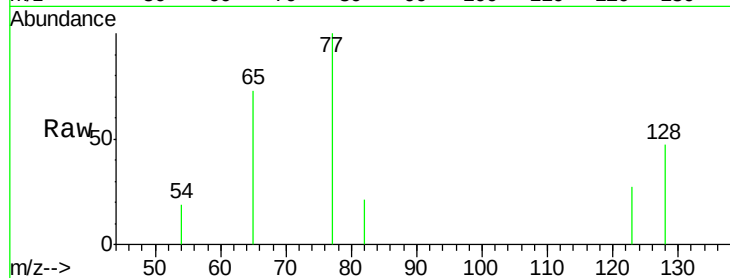
Tgt Ion: 77 Resp: 15593

Ion Ratio Lower Upper

77 100

123 28.1 26.9 40.3

65 80.0 9.4 14.2#



#10

Naphthalene

Concen: 0.88 ng

RT: 10.61 min Scan# 513

Delta R.T. 0.00 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

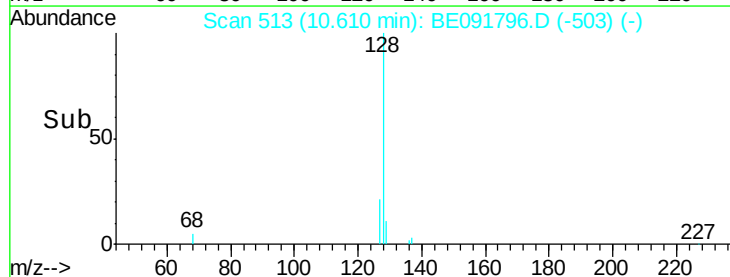
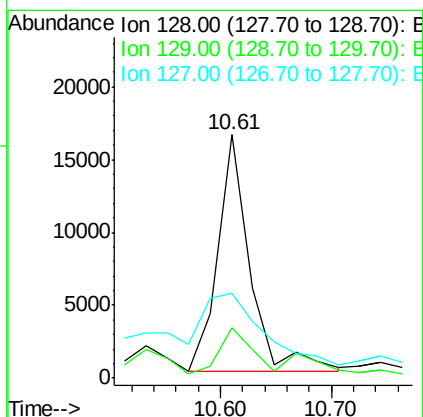
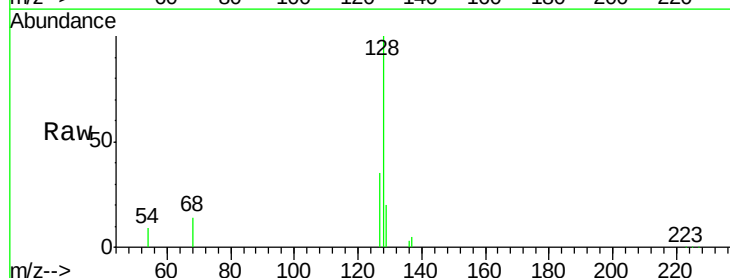
Tgt Ion: 128 Resp: 33011

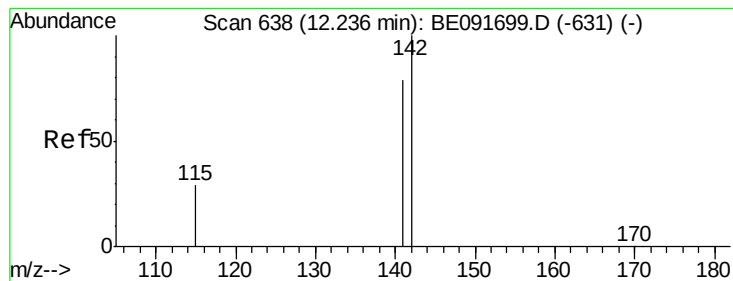
Ion Ratio Lower Upper

128 100

129 20.5 9.3 13.9#

127 34.8 10.7 16.1#





#12

2-Methylnaphthalene

Concen: 0.10 ng

RT: 12.23 min Scan# 637

Delta R.T. -0.01 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

Instrument :

BNA_E

ClientSampleId :

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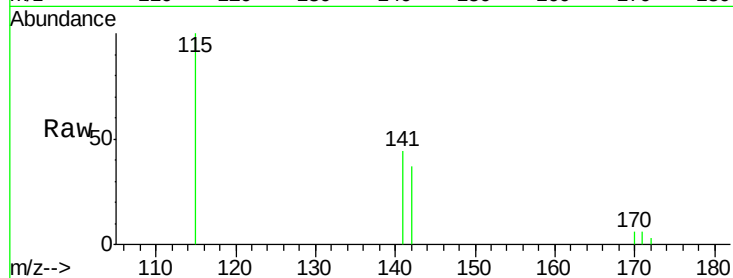
Tgt Ion:142 Resp: 2293

Ion Ratio Lower Upper

142 100

141 118.7 71.4 107.0#

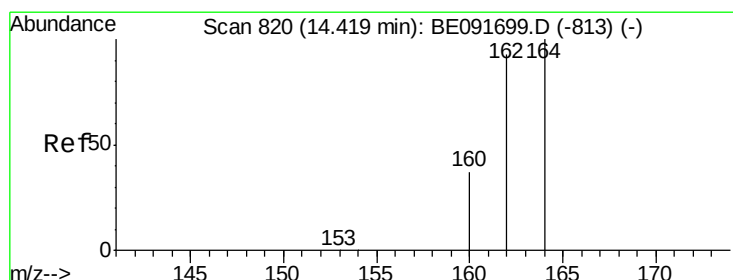
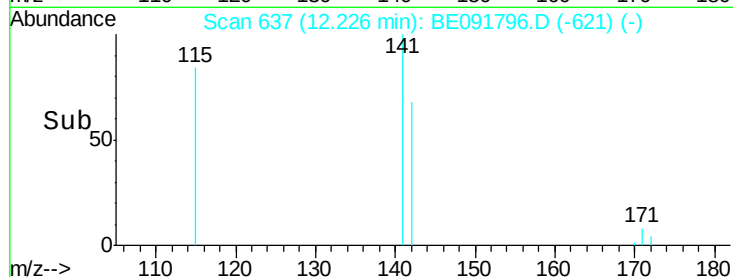
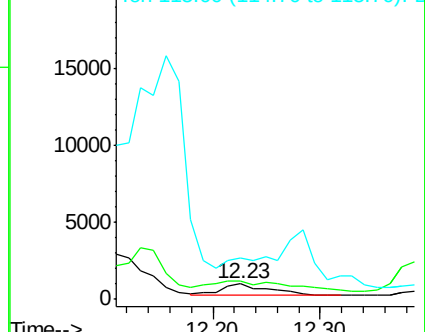
115 270.1 30.3 45.5#



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



#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.40 min Scan# 819

Delta R.T. -0.01 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

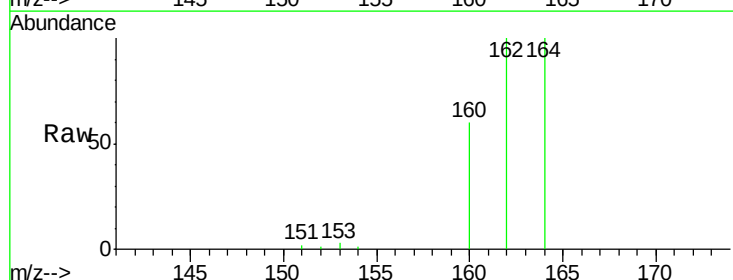
Tgt Ion:164 Resp: 120283

Ion Ratio Lower Upper

164 100

162 99.8 85.3 127.9

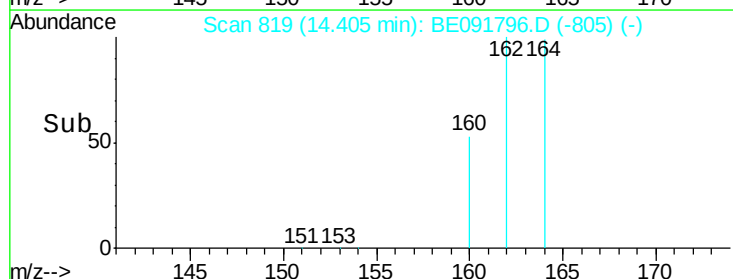
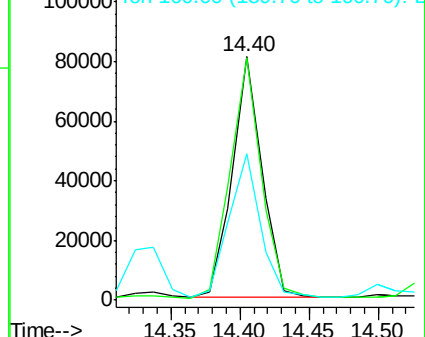
160 60.3 46.2 69.2

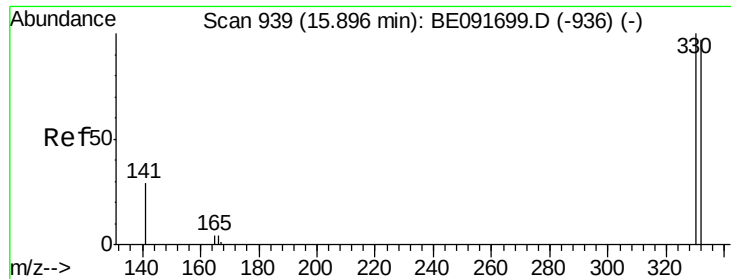


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

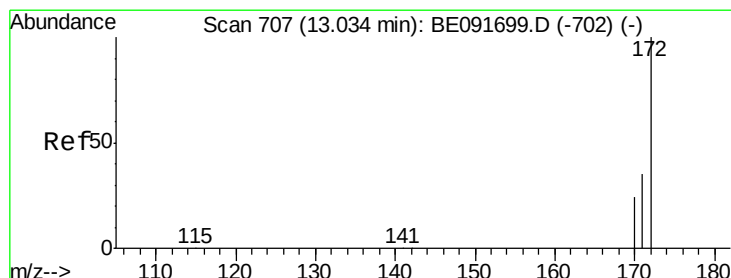
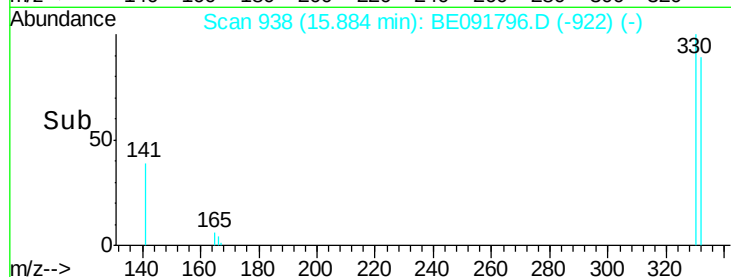
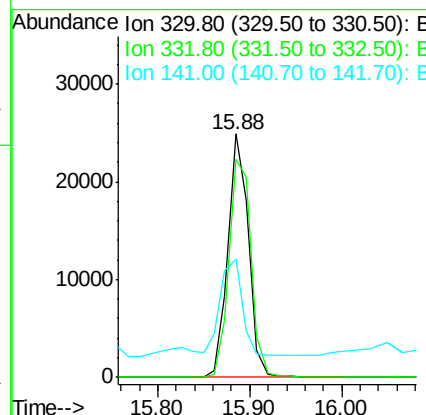
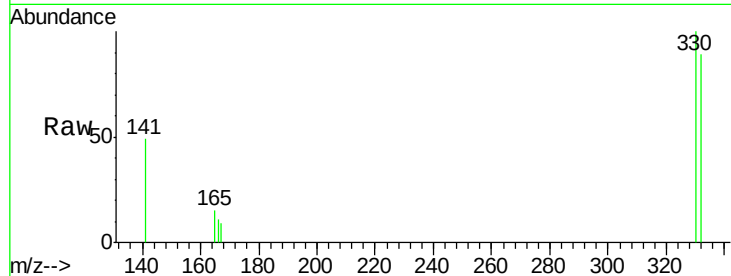




#14
 2,4,6-Tribromophenol
 Concen: 8.55 ng
 RT: 15.88 min Scan# 938
 Delta R.T. -0.01 min
 Lab File: BE091796.D
 Acq: 18 May 2016 19:44

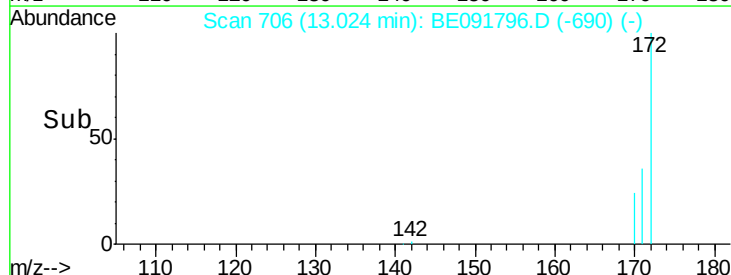
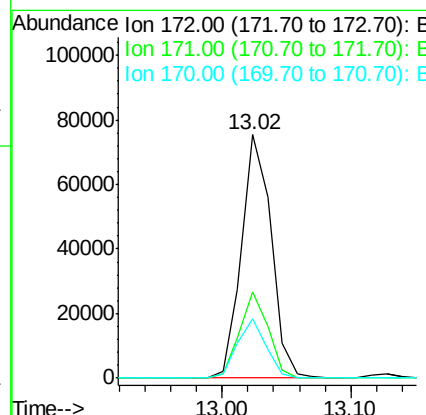
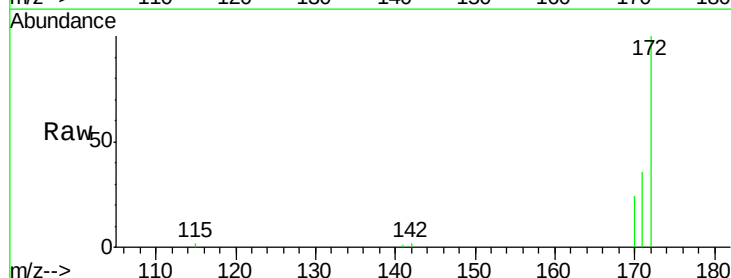
Instrument :
 BNA_E
 ClientSampleId :
 SS043MW009-160511

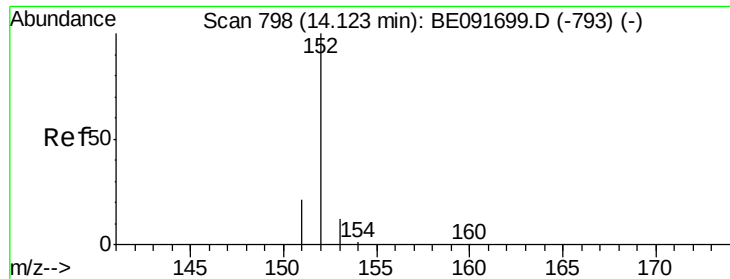
Tgt Ion:330 Resp: 38318
 Ion Ratio Lower Upper
 330 100
 332 97.1 79.1 118.7
 141 42.3 125.4 188.0#



#15
 2-Fluorobiphenyl
 Concen: 3.53 ng
 RT: 13.02 min Scan# 706
 Delta R.T. -0.01 min
 Lab File: BE091796.D
 Acq: 18 May 2016 19:44

Tgt Ion:172 Resp: 119964
 Ion Ratio Lower Upper
 172 100
 171 35.6 28.8 43.2
 170 24.4 19.3 28.9





#16

Acenaphthylene

Concen: 0.26 ng

RT: 14.12 min Scan# 798

Delta R.T. -0.00 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

Instrument :

BNA_E

ClientSampleId :

SS043MW009-160511

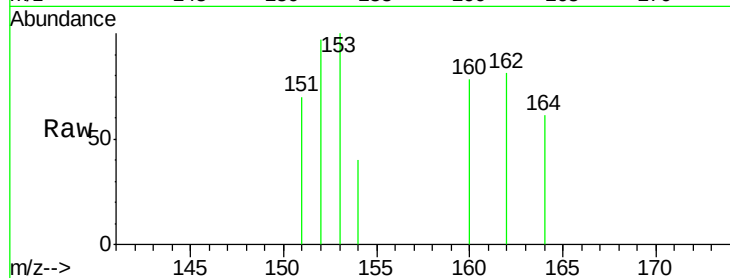
Tgt Ion:152 Resp: 11921

Ion Ratio Lower Upper

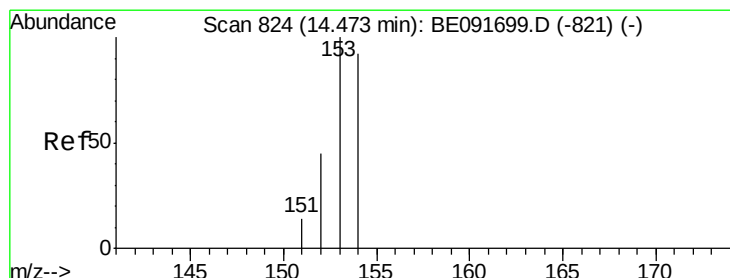
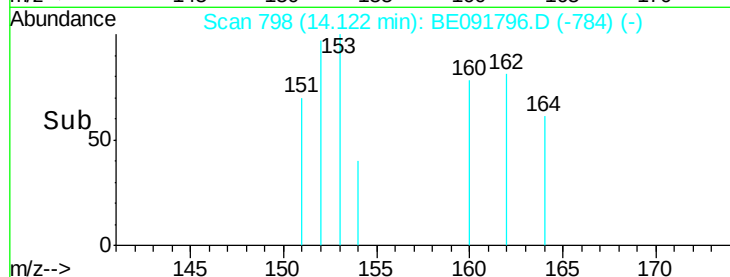
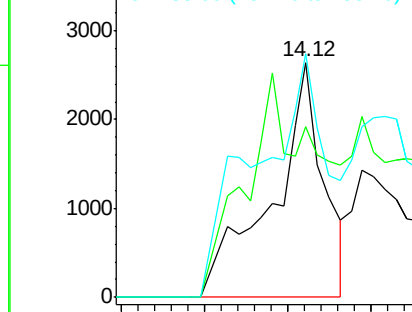
152 100

151 0.0 3.9 5.9#

153 39.7 10.3 15.5#



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



#17

Acenaphthene

Concen: 0.12 ng

RT: 14.46 min Scan# 823

Delta R.T. -0.01 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

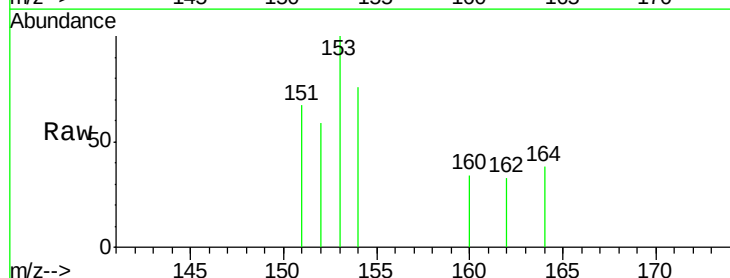
Tgt Ion:154 Resp: 3615

Ion Ratio Lower Upper

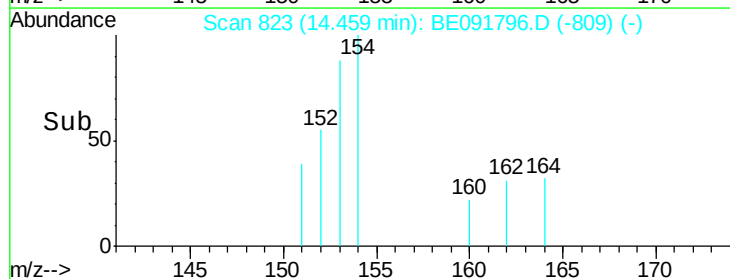
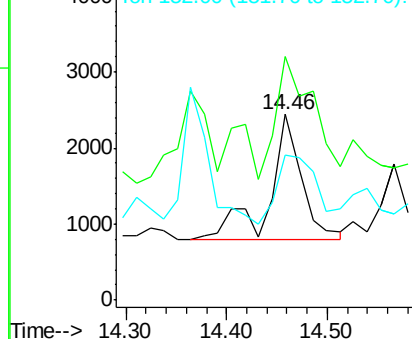
154 100

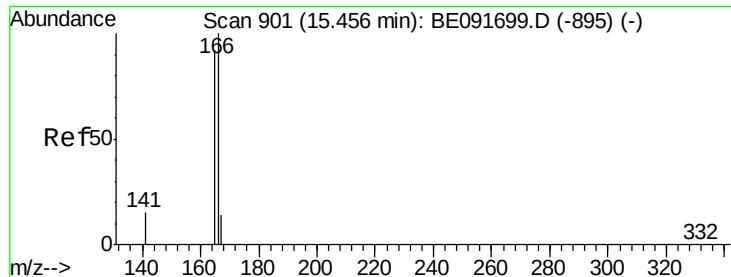
153 112.7 80.0 120.0

152 69.2 40.0 60.0#



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





#18

Fluorene

Concen: 0.25 ng

RT: 15.44 min Scan# 900

Delta R.T. -0.01 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

Instrument :

BNA_E

ClientSampleId :

SS043MW009-160511

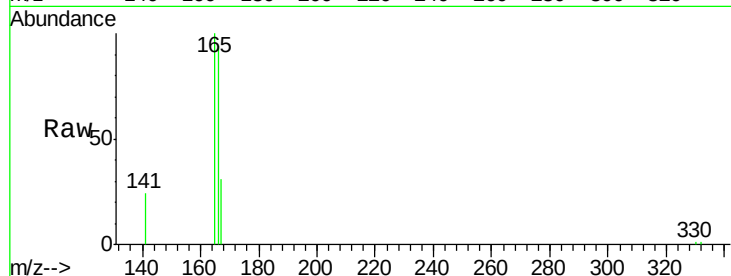
Tgt Ion:166 Resp: 9466

Ion Ratio Lower Upper

166 100

165 105.3 80.8 121.2

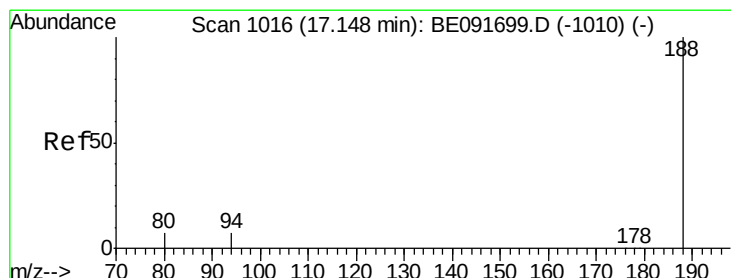
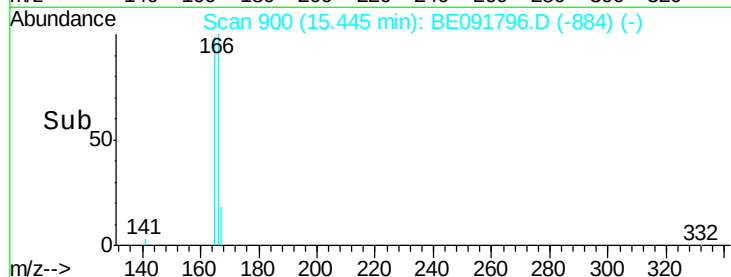
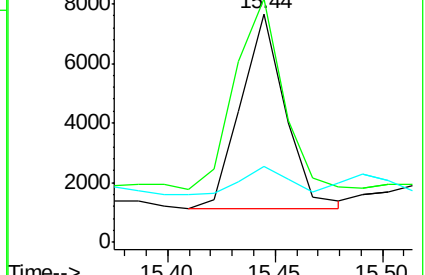
167 14.6 10.9 16.3



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



#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.14 min Scan# 1015

Delta R.T. -0.01 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

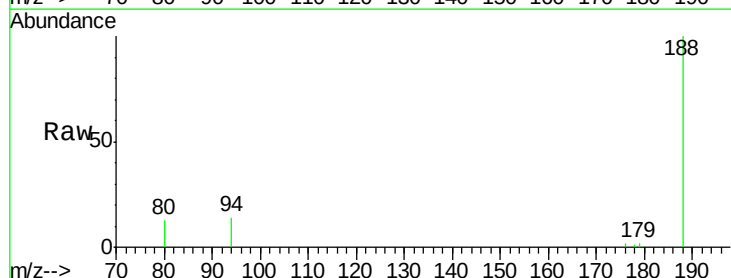
Tgt Ion:188 Resp: 270980

Ion Ratio Lower Upper

188 100

94 13.8 8.7 13.1#

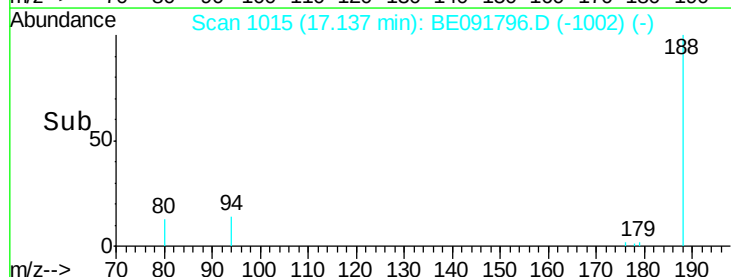
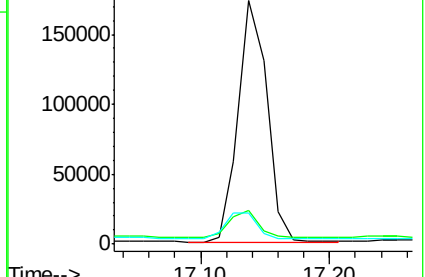
80 12.8 9.4 14.0

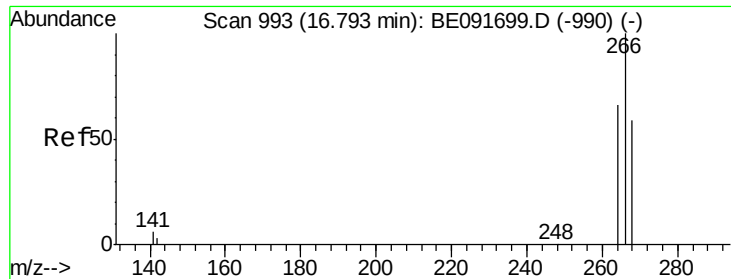


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

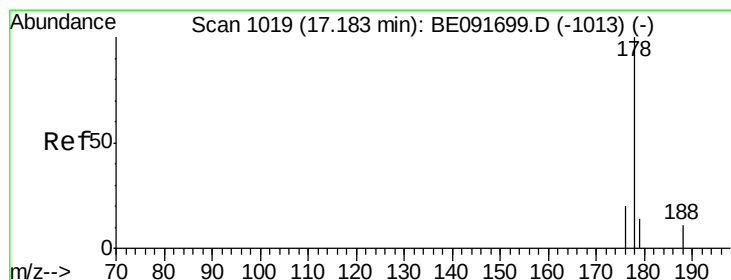
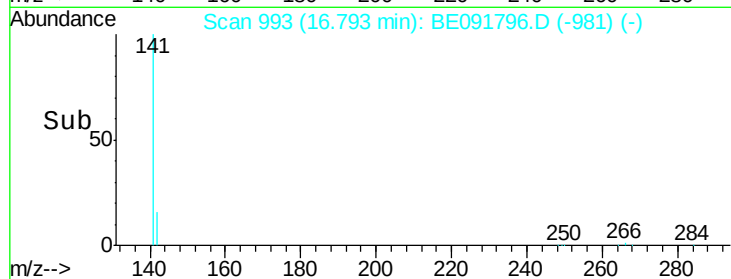
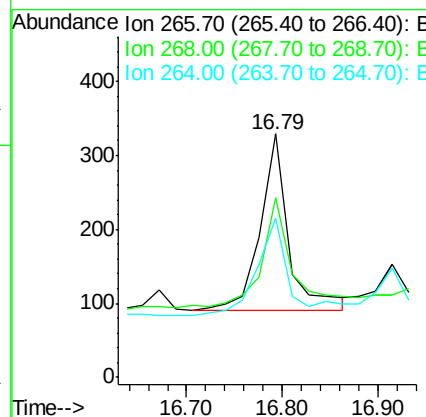
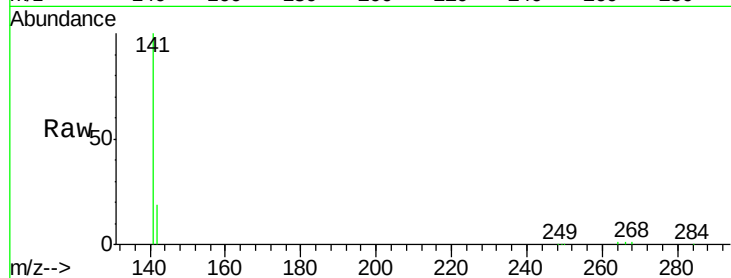




#22
 Pentachlorophenol
 Concen: 0.19 ng
 RT: 16.79 min Scan# 993
 Delta R.T. -0.00 min
 Lab File: BE091796.D
 Acq: 18 May 2016 19:44

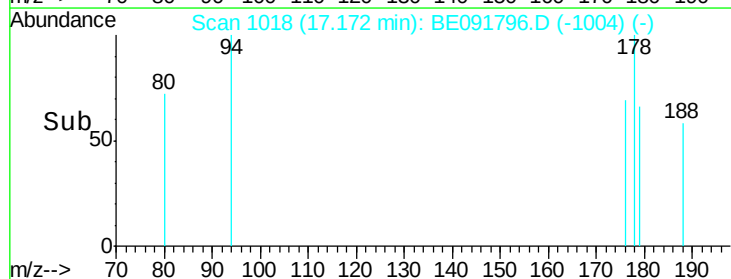
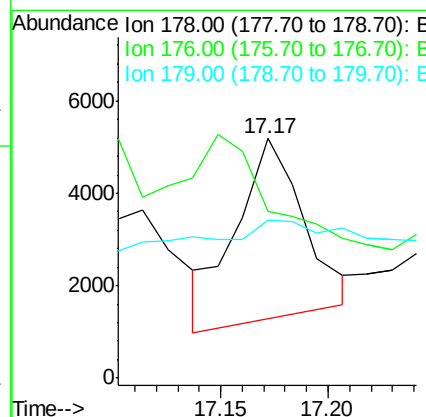
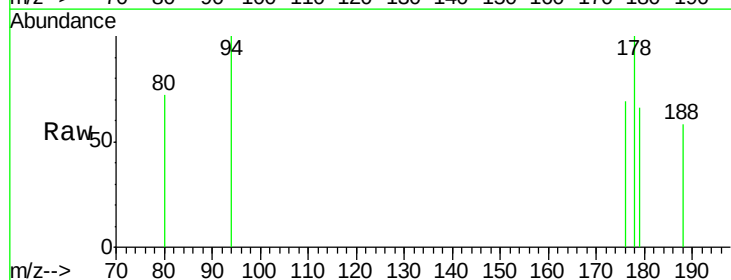
Instrument :
 BNA_E
 ClientSampleId :
 SS043MW009-160511

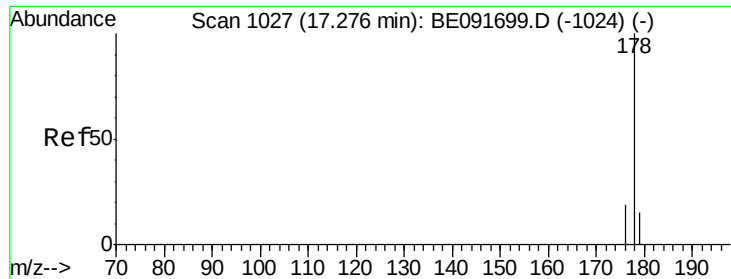
Tgt Ion: 266 Resp: 497
 Ion Ratio Lower Upper
 266 100
 268 73.9 58.2 87.2
 264 65.7 56.2 84.4



#23
 Phenanthrene
 Concen: 0.14 ng
 RT: 17.17 min Scan# 1018
 Delta R.T. -0.01 min
 Lab File: BE091796.D
 Acq: 18 May 2016 19:44

Tgt Ion: 178 Resp: 8627
 Ion Ratio Lower Upper
 178 100
 176 0.0 15.3 22.9#
 179 0.0 12.6 18.8#





#24

Anthracene

Concen: 0.07 ng

RT: 17.26 min Scan# 1026

Delta R.T. -0.01 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

Instrument :

BNA_E

ClientSampleId :

SS043MW009-160511

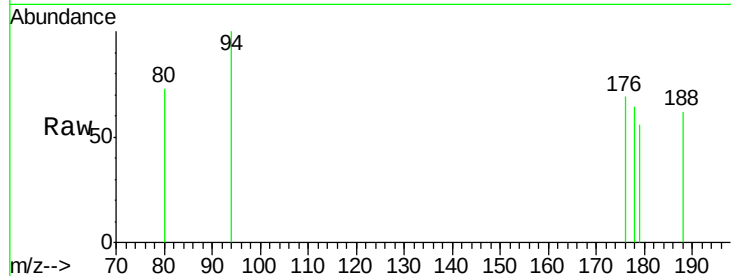
Tgt Ion:178 Resp: 3877

Ion Ratio Lower Upper

178 100

176 66.5 14.6 21.8#

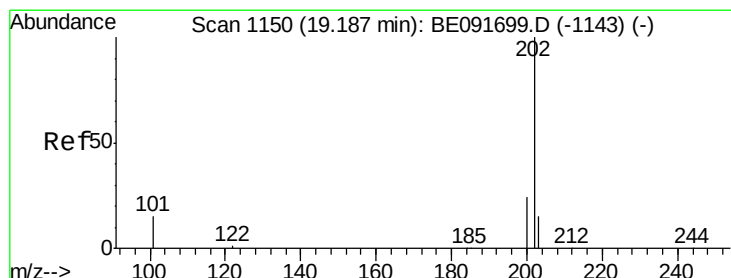
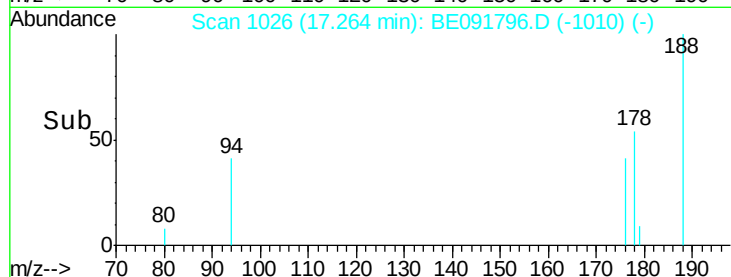
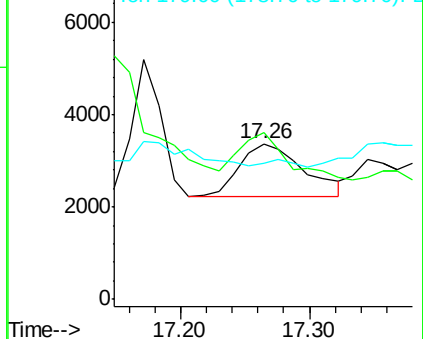
179 5.7 11.8 17.6#



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



#25

Fluoranthene

Concen: 0.02 ng

RT: 19.19 min Scan# 1150

Delta R.T. -0.00 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

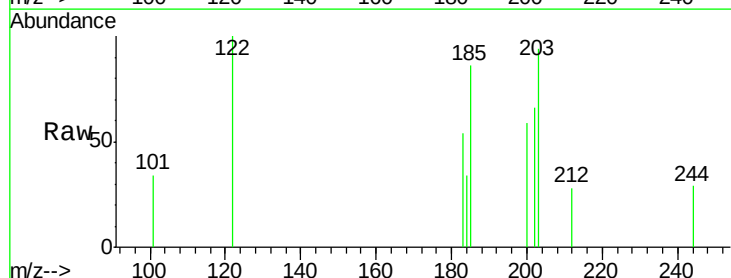
Tgt Ion:202 Resp: 1345

Ion Ratio Lower Upper

202 100

101 201.2 11.0 16.6#

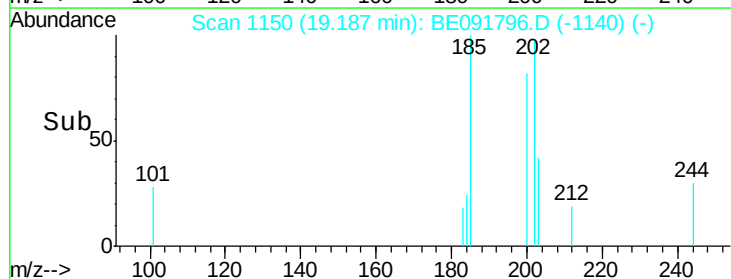
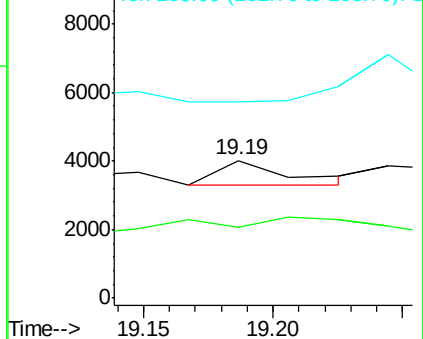
203 0.0 13.9 20.9#

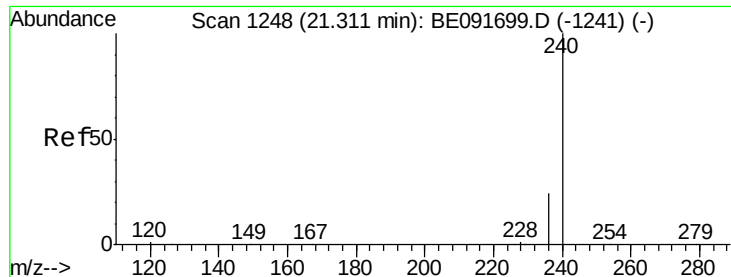


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#26

Chrysene-d12

Concen: 5.00 ng

RT: 21.29 min Scan# 1247

Delta R.T. -0.02 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

Instrument :

BNA_E

ClientSampleId :

SS043MW009-160511

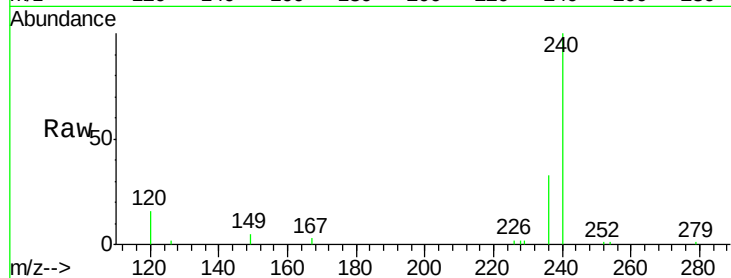
Tgt Ion:240 Resp: 278421

Ion Ratio Lower Upper

240 100

120 15.9 11.0 16.4

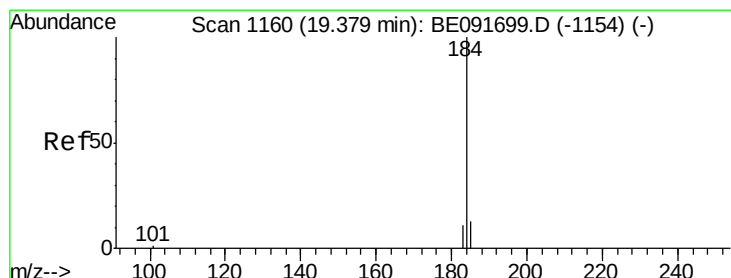
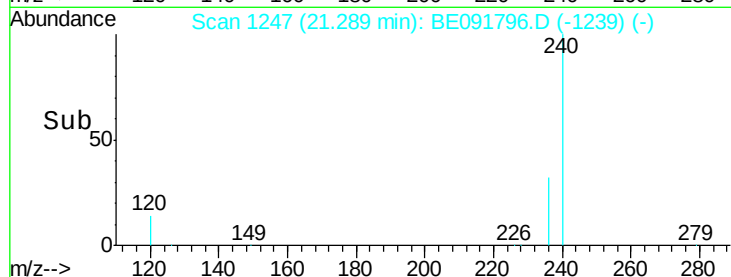
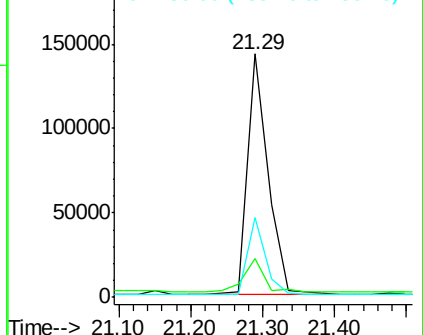
236 32.6 21.7 32.5#



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



#27

Benzidine

Concen: 0.19 ng

RT: 19.32 min Scan# 1157

Delta R.T. -0.06 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

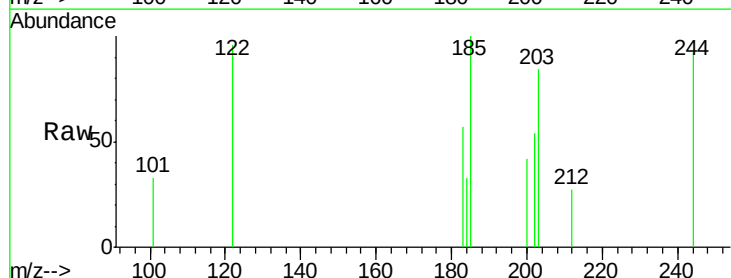
Tgt Ion:184 Resp: 710

Ion Ratio Lower Upper

184 100

185 305.3 22.3 33.5#

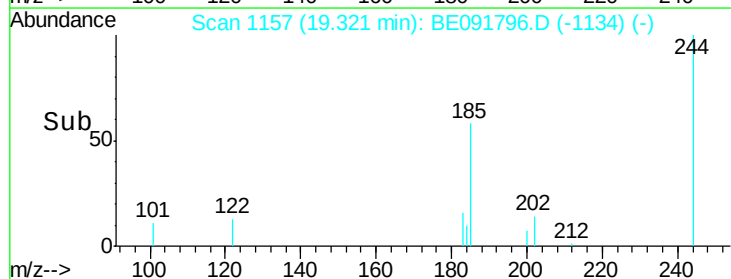
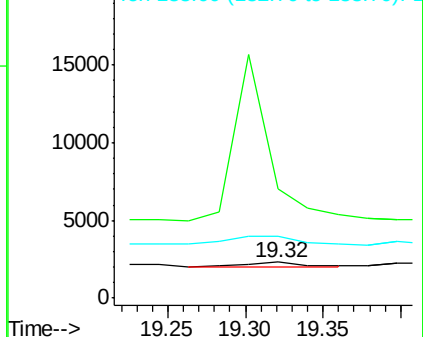
183 173.8 16.4 24.6#

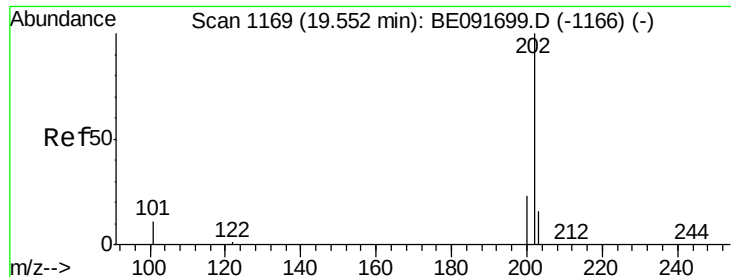


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#28

Pyrene

Concen: 0.12 ng

RT: 19.55 min Scan# 1169

Delta R.T. -0.00 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

Instrument :

BNA_E

ClientSampleId :

SS043MW009-160511

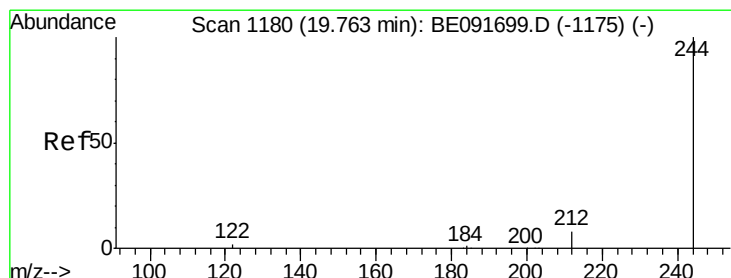
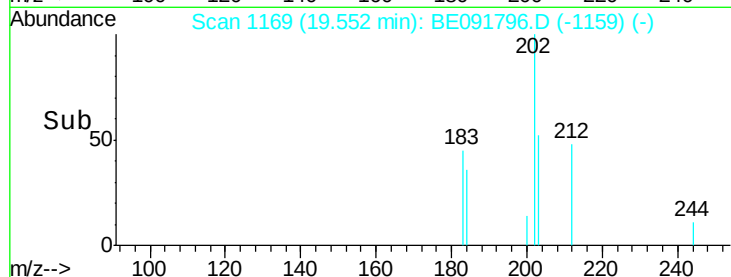
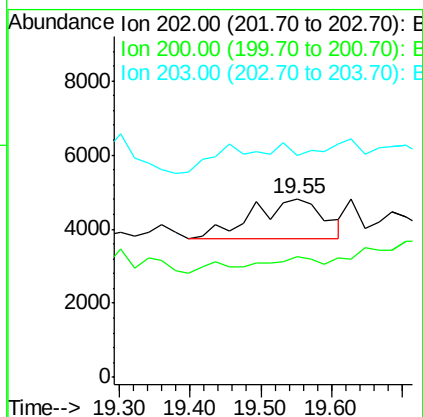
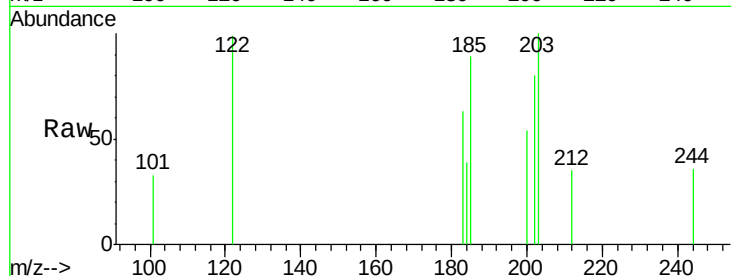
Tgt Ion:202 Resp: 7692

Ion Ratio Lower Upper

202 100

200 16.2 16.8 25.2#

203 0.0 14.0 21.0#



#29

Terphenyl-d14

Concen: 4.33 ng

RT: 19.74 min Scan# 1179

Delta R.T. -0.02 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

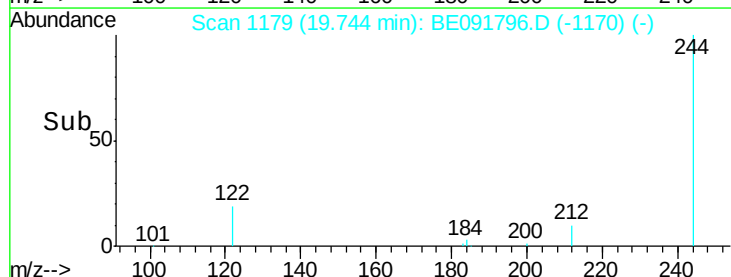
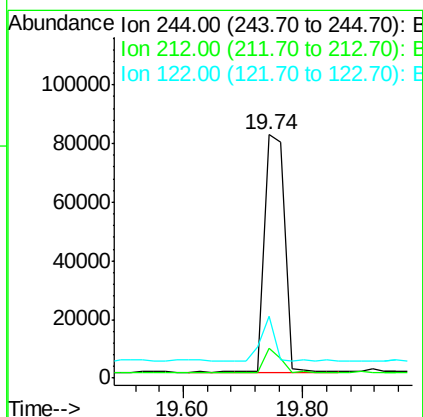
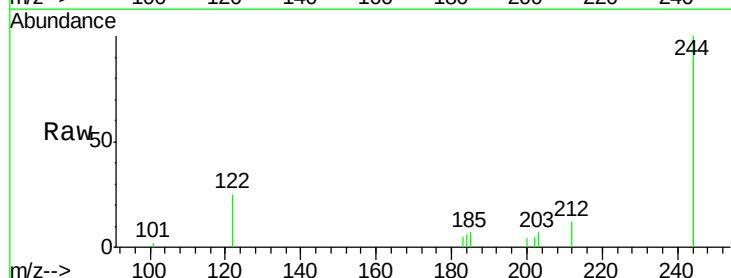
Tgt Ion:244 Resp: 187839

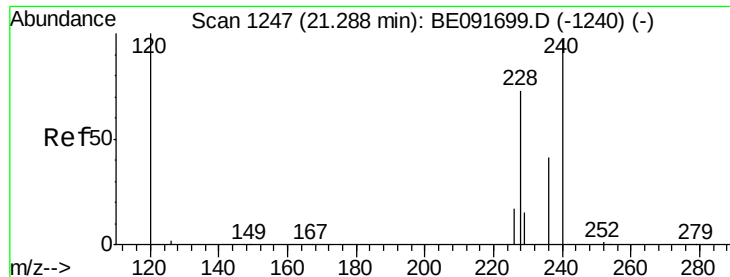
Ion Ratio Lower Upper

244 100

212 12.0 6.9 10.3#

122 25.5 11.0 16.4#





#30

Benzo(a)anthracene

Concen: 0.04 ng

RT: 21.29 min Scan# 1247

Delta R.T. 0.00 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

Instrument :

BNA_E

ClientSampleId :

SS043MW009-160511

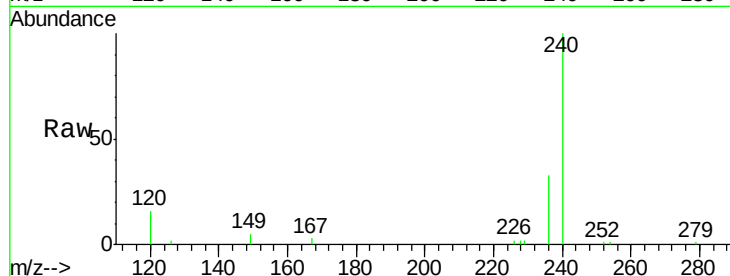
Tgt Ion:228 Resp: 2953

Ion Ratio Lower Upper

228 100

226 76.5 21.0 31.4#

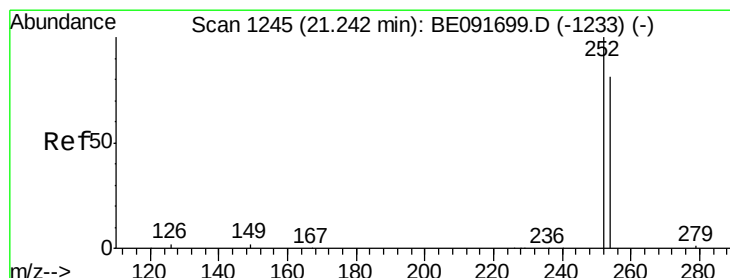
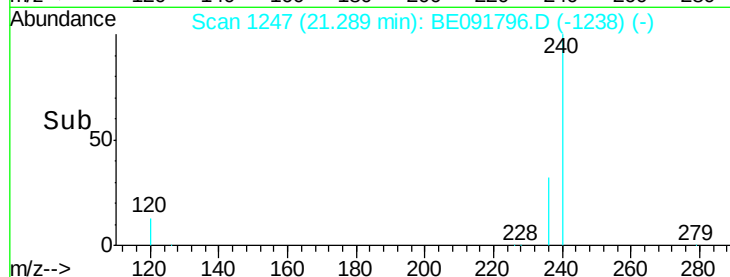
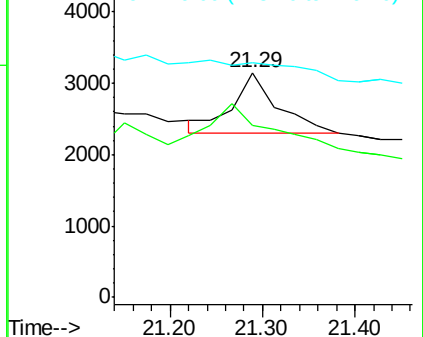
229 104.6 15.7 23.5#



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



#31

3,3'-Dichlorobenzidine

Concen: 0.03 ng

RT: 21.15 min Scan# 1241

Delta R.T. -0.09 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

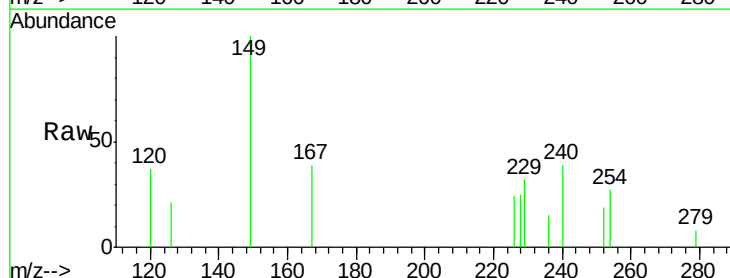
Tgt Ion:252 Resp: 926

Ion Ratio Lower Upper

252 100

254 145.3 51.1 76.7#

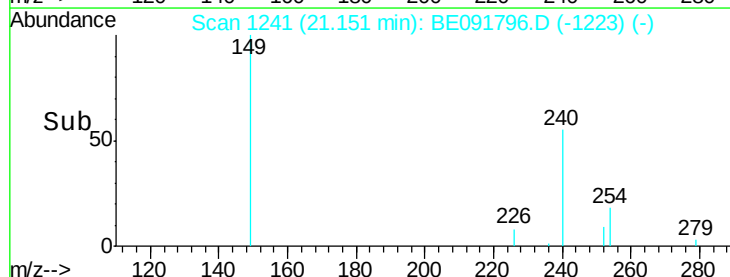
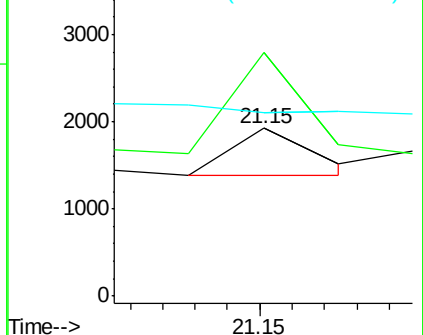
126 109.8 12.6 18.8#

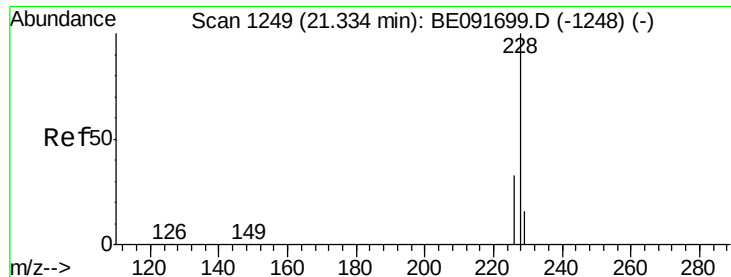


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#32

Chrysene

Concen: 0.05 ng

RT: 21.29 min Scan# 1247

Delta R.T. -0.04 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

Instrument :

BNA_E

ClientSampleId :

SS043MW009-160511

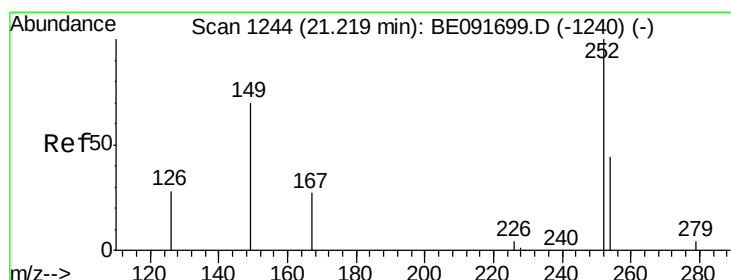
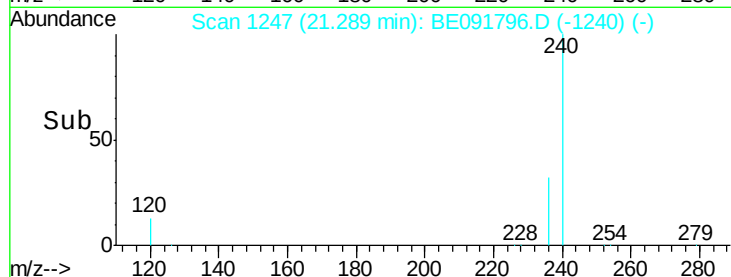
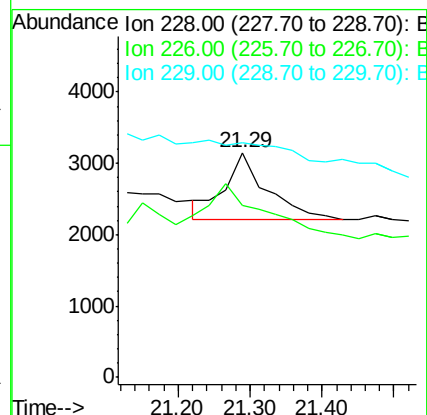
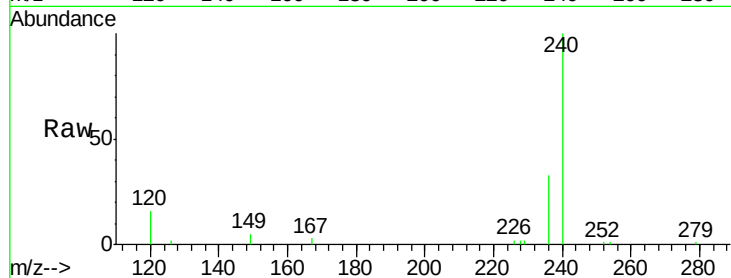
Tgt Ion: 228 Resp: 3818

Ion Ratio Lower Upper

228 100

226 76.5 24.0 36.0#

229 104.6 15.9 23.9#



#33

Bis(2-ethylhexyl)phthalate

Concen: 0.58 ng

RT: 21.15 min Scan# 1241

Delta R.T. -0.07 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

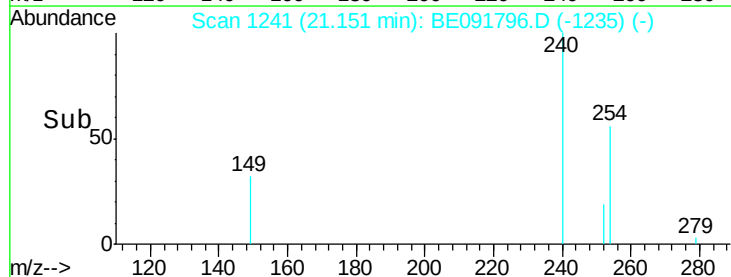
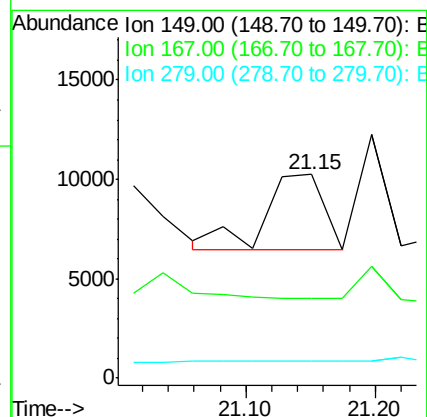
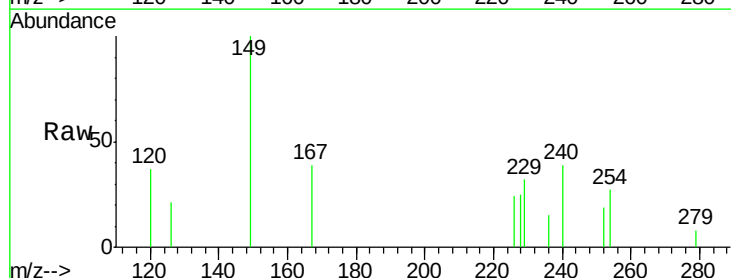
Tgt Ion: 149 Resp: 11981

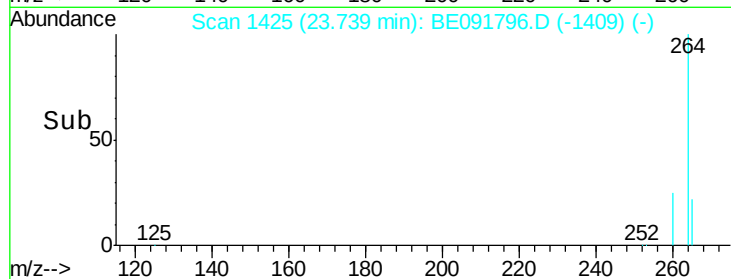
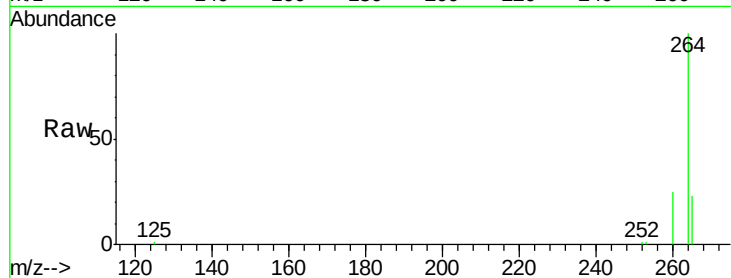
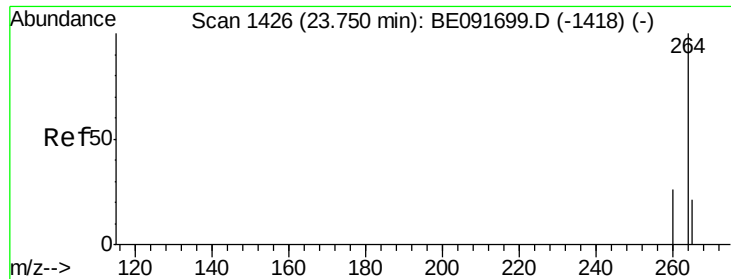
Ion Ratio Lower Upper

149 100

167 0.0 19.5 29.3#

279 0.0 10.0 15.0#





#35

Perylene-d12

Concen: 5.00 ng

RT: 23.74 min Scan# 1425

Delta R.T. -0.01 min

Lab File: BE091796.D

Acq: 18 May 2016 19:44

Instrument :

BNA_E

ClientSampleId :

SS043MW009-160511

Tgt Ion: 264 Resp: 290154

Ion Ratio Lower Upper

264 100

260 25.2 20.0 30.0

265 22.7 17.5 26.3

