

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE033116\
 Data File : BE091570.D
 Acq On : 31 Mar 2016 00:27
 Operator : UM/SJ
 Sample : PB89278BL
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB89278BS

Quant Time: Mar 31 02:41:55 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE033016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 30 18:45:59 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	33922	5.00	ng	0.00
6) Naphthalene-d8	10.59	136	154880	5.00	ng	0.00
10) Acenaphthene-d10	14.42	164	93989	5.00	ng	-0.03
16) Phenanthrene-d10	17.16	188	241458	5.00	ng	-0.01
22) Chrysene-d12	21.31	240	361316	5.00	ng	-0.02
28) Perylene-d12	23.76	264	302702	5.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.41	112	60475	6.81	ng	-0.02
5) Phenol-d6	6.97	99	83989	6.99	ng	-0.02
7) Nitrobenzene-d5	8.96	82	36968	3.56	ng	-0.02
11) 2,4,6-Tribromophenol	15.91	330	25026	6.01	ng	-0.01
12) 2-Fluorobiphenyl	13.05	172	98668	3.69	ng	-0.02
24) Terphenyl-d14	19.76	244	154519	3.37	ng	-0.02

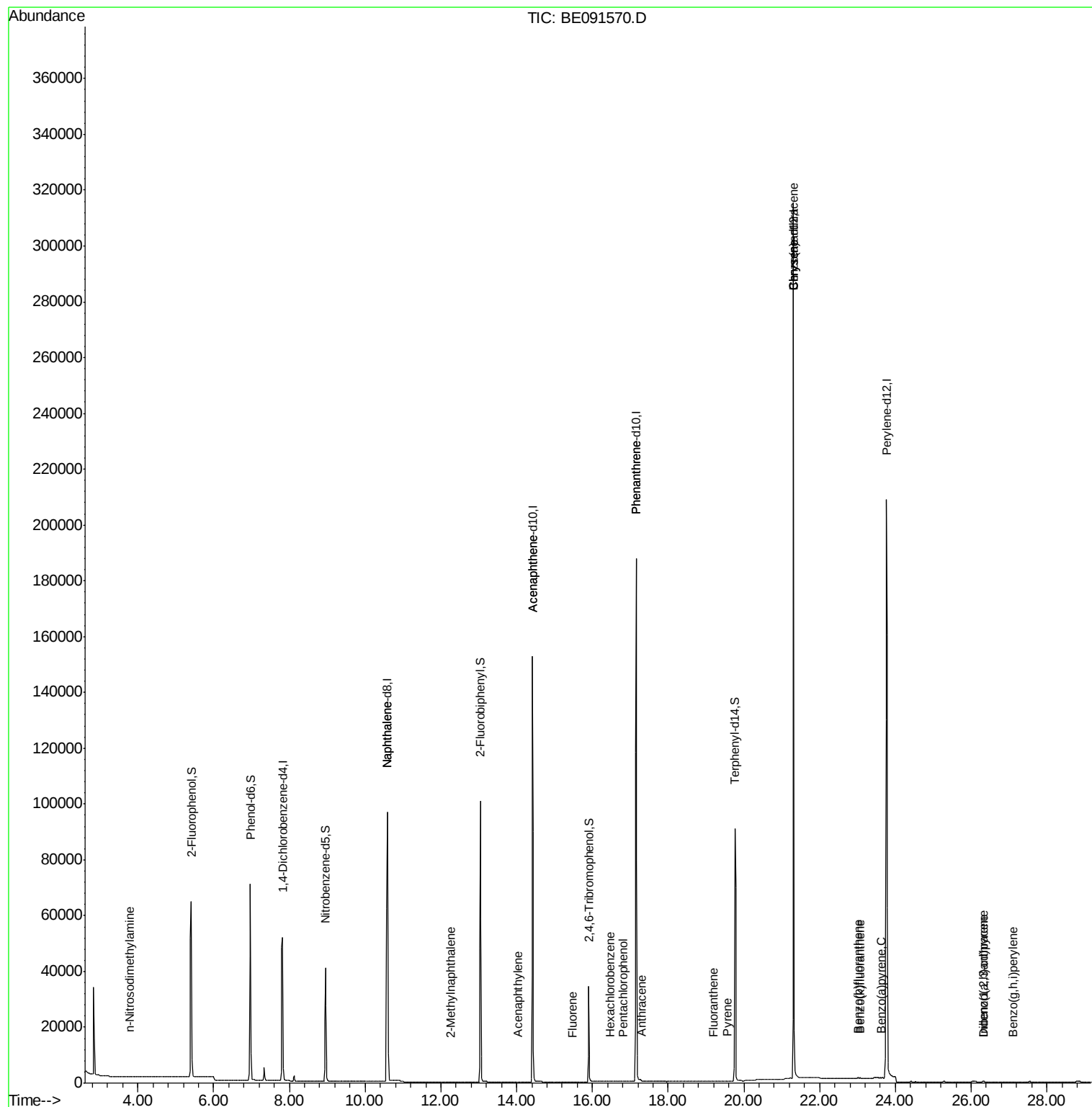
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) n-Nitrosodimethylamine	3.78	42	61	0.01	ng	# 1
8) Naphthalene	10.59	128	74	0.00	ng	# 1
9) 2-Methylnaphthalene	12.25	142	28	0.00	ng	# 39
13) Acenaphthylene	14.03	152	278	0.01	ng	# 1
14) Acenaphthene	14.42	154	378	0.02	ng	# 10
15) Fluorene	15.47	166	45	0.00	ng	# 8
17) Hexachlorobenzene	16.48	284	9	0.00	ng	# 55
18) Pentachlorophenol	16.81	266	51	0.01	ng	# 68
19) Phenanthrene	17.16	178	101	0.00	ng	# 1
20) Anthracene	17.29	178	45	0.00	ng	# 75
21) Fluoranthene	19.20	202	59	0.00	ng	# 70
23) Pyrene	19.57	202	62	0.00	ng	# 1
25) Benzo(a)anthracene	21.31	228	1021	0.01	ng	# 65
26) Chrysene	21.31	228	1028	0.01	ng	# 75
27) Indeno(1,2,3-cd)pyrene	26.33	276	65	0.00	ng	# 1
29) Benzo(b)fluoranthene	23.01	252	262	0.00	ng	# 1
30) Benzo(k)fluoranthene	23.06	252	142	0.00	ng	# 1
31) Benzo(a)pyrene	23.63	252	81	0.00	ng	# 1
32) Dibenzo(a,h)anthracene	26.33	278	71	0.00	ng	# 1
33) Benzo(g,h,i)perylene	27.10	276	73	0.00	ng	# 1

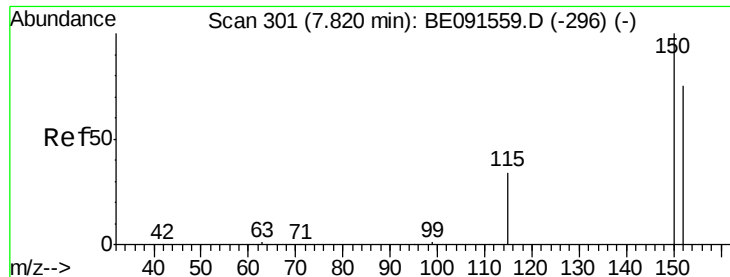
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.82 min Scan# 301

Delta R.T. -0.00 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

Instrument :

BNA_E

ClientSampleId :

PB89278BS

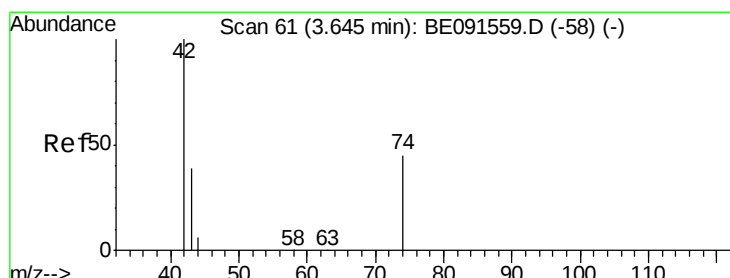
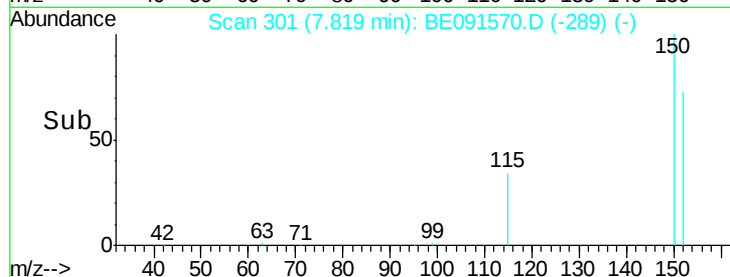
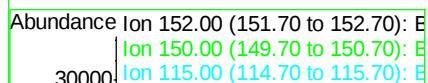
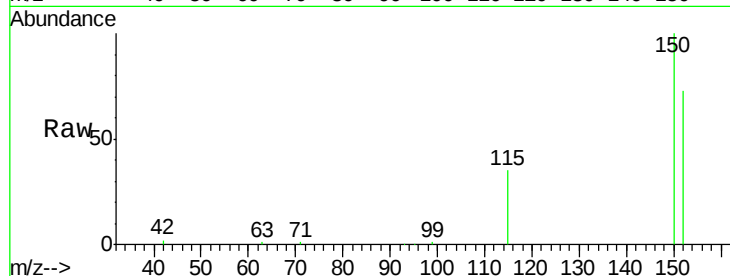
Tgt Ion:152 Resp: 33922

Ion Ratio Lower Upper

152 100

150 136.3 122.2 183.2

115 47.1 45.9 68.9



#3

n-Nitrosodimethylamine

Concen: 0.01 ng

RT: 3.78 min Scan# 69

Delta R.T. 0.11 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

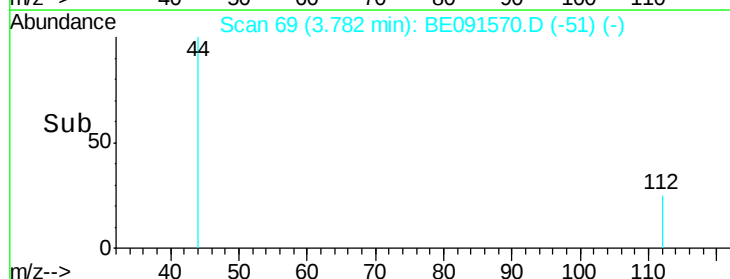
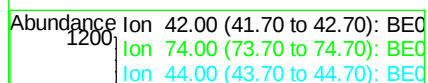
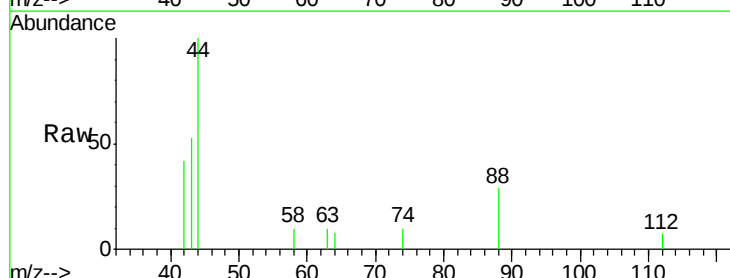
Tgt Ion: 42 Resp: 61

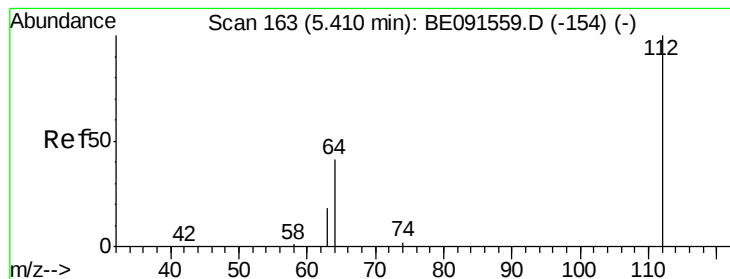
Ion Ratio Lower Upper

42 100

74 0.0 84.3 126.5#

44 82.0 6.7 10.1#





#4

2-Fluorophenol

Concen: 6.81 ng

RT: 5.41 min Scan# 163

Delta R.T. -0.02 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

Instrument :

BNA_E

ClientSampleId :

PB89278BS

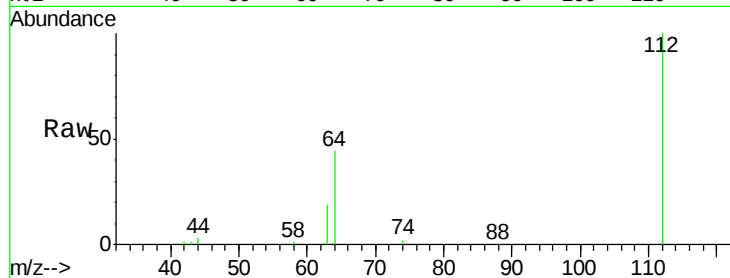
Tgt Ion: 112 Resp: 60475

Ion Ratio Lower Upper

112 100

64 67.1 53.3 79.9

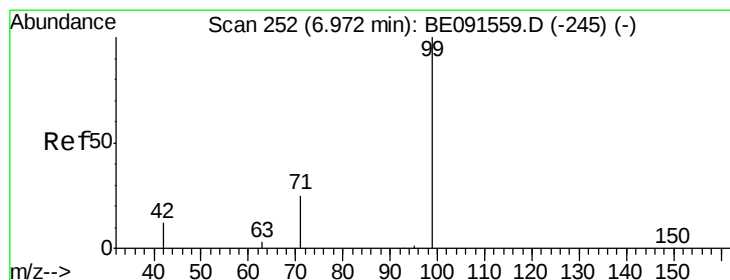
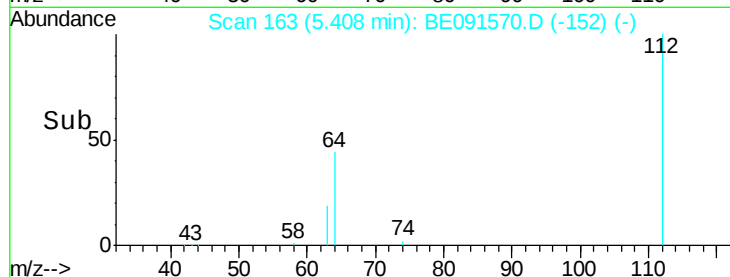
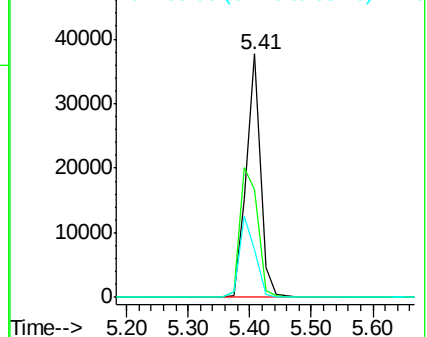
63 36.1 29.8 44.8



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 6.99 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.02 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

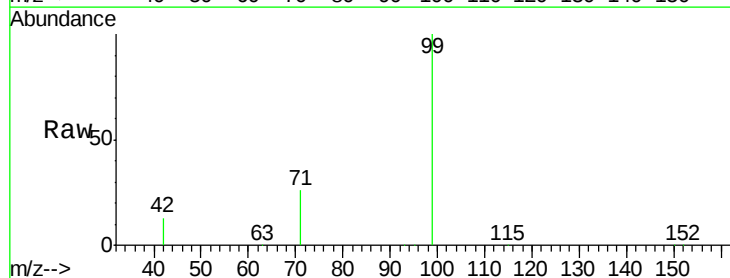
Tgt Ion: 99 Resp: 83989

Ion Ratio Lower Upper

99 100

42 24.6 20.6 30.8

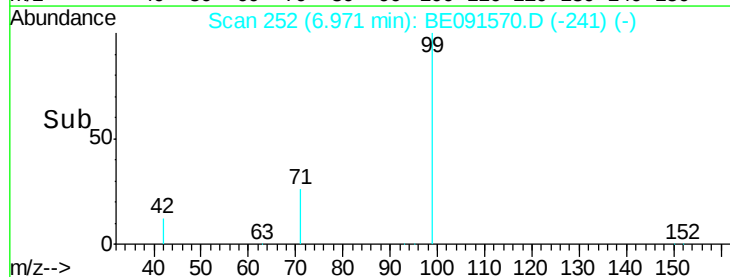
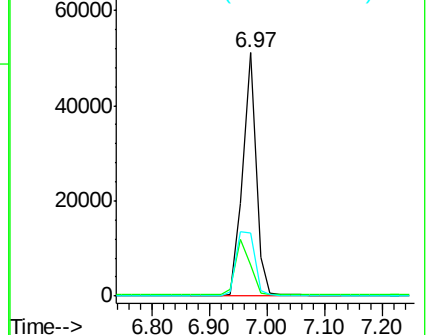
71 35.6 29.0 43.4

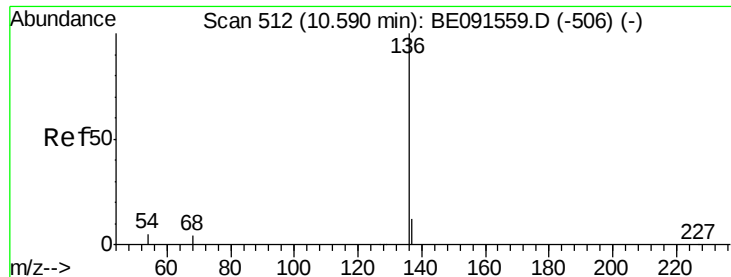


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.59 min Scan# 512

Delta R.T. -0.00 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

Instrument :

BNA_E

ClientSampleId :

PB89278BS

Tgt Ion:136 Resp: 154880

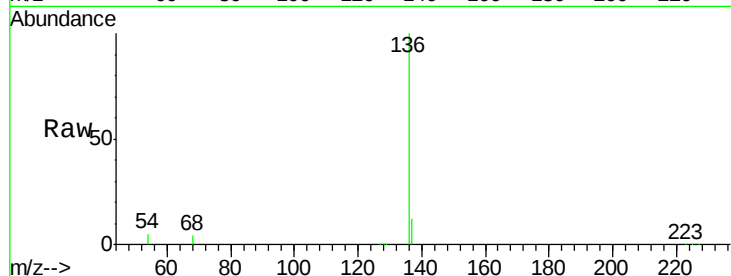
Ion Ratio Lower Upper

136 100

137 11.5 8.8 13.2

54 4.9 5.2 7.8#

68 4.0 4.1 6.1#

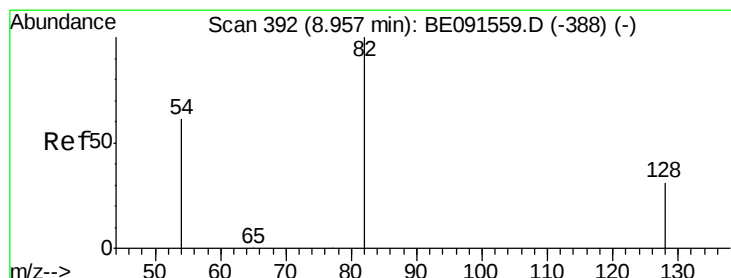
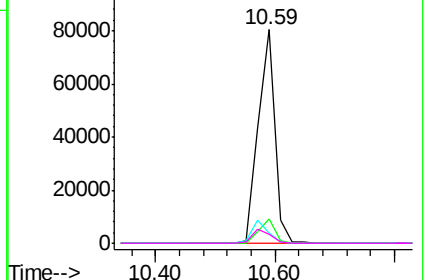
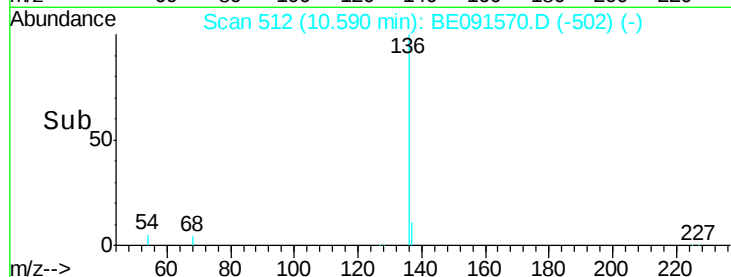


Abundance Ion 136.00 (135.70 to 136.70): E

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



#7

Nitrobenzene-d5

Concen: 3.56 ng

RT: 8.96 min Scan# 392

Delta R.T. -0.02 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

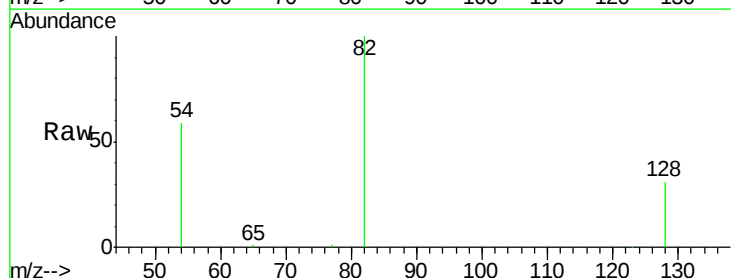
Tgt Ion: 82 Resp: 36968

Ion Ratio Lower Upper

82 100

128 30.8 23.5 35.3

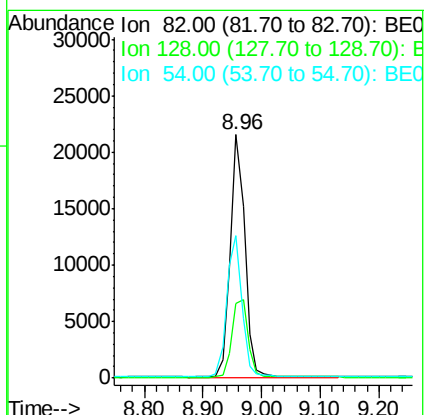
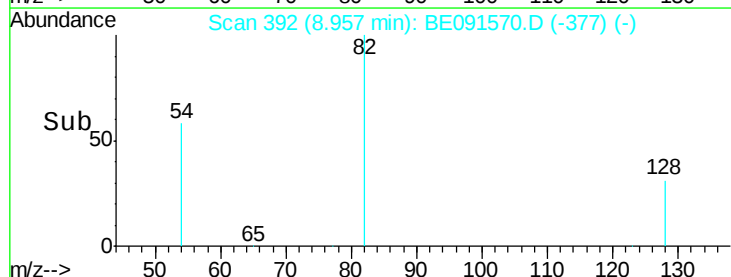
54 58.5 52.4 78.6

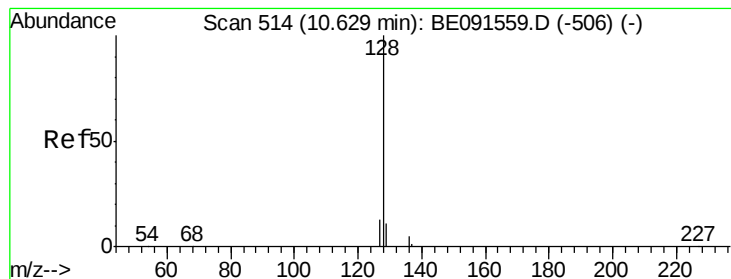


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#8

Naphthalene

Concen: 0.00 ng

RT: 10.59 min Scan# 512

Delta R.T. -0.06 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

Instrument :

BNA_E

ClientSampleId :

PB89278BS

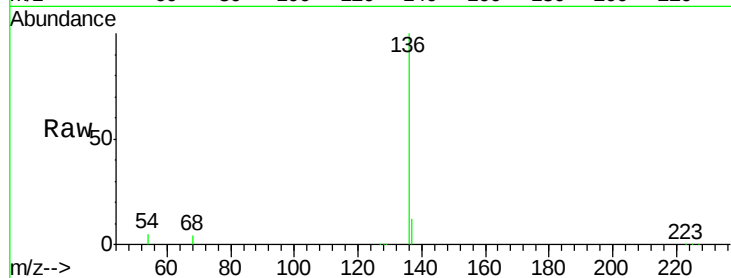
Tgt Ion:128 Resp: 74

Ion Ratio Lower Upper

128 100

129 70.0 8.2 12.2#

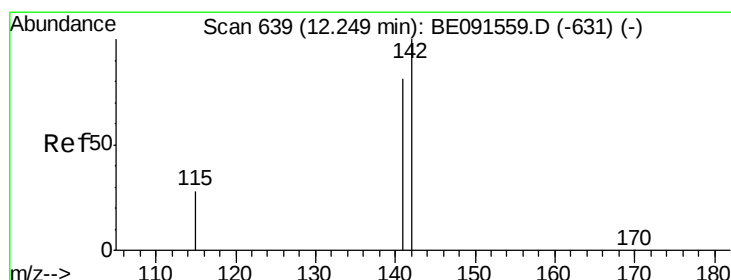
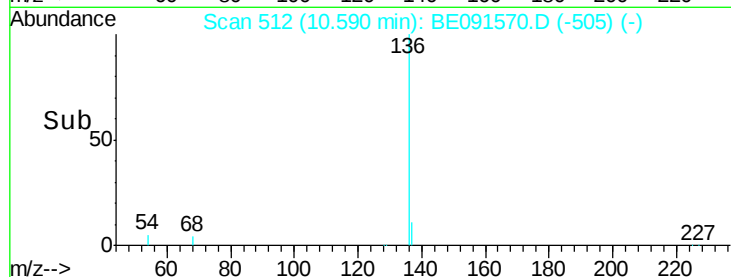
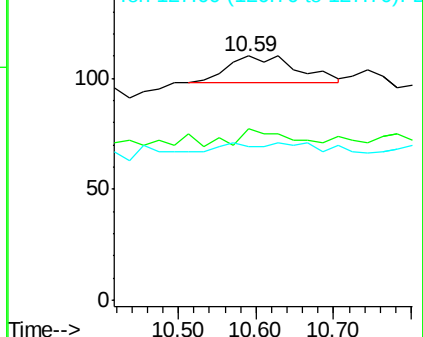
127 62.7 11.8 17.8#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#9

2-Methylnaphthalene

Concen: 0.00 ng

RT: 12.25 min Scan# 639

Delta R.T. -0.01 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

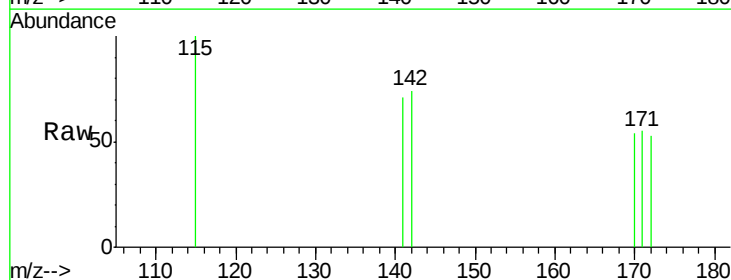
Tgt Ion:142 Resp: 28

Ion Ratio Lower Upper

142 100

141 95.9 66.9 100.3

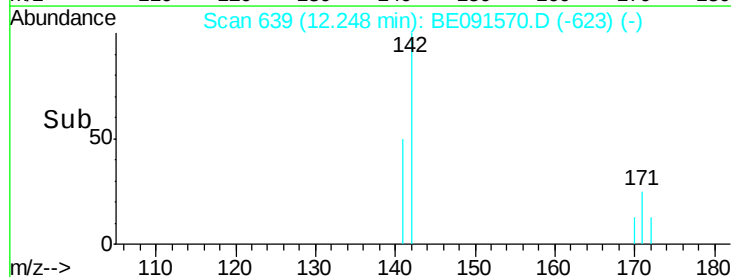
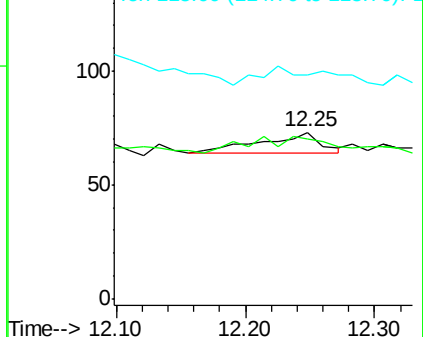
115 134.2 25.1 37.7#

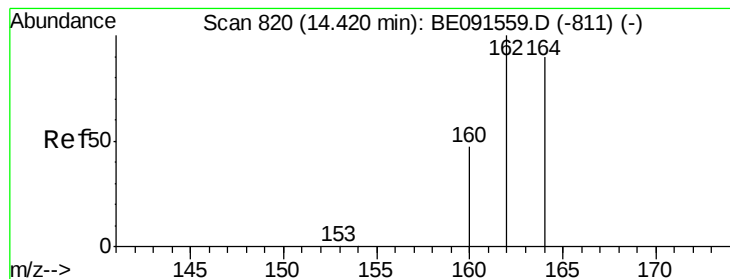


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.42 min Scan# 820

Delta R.T. -0.03 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

Instrument :

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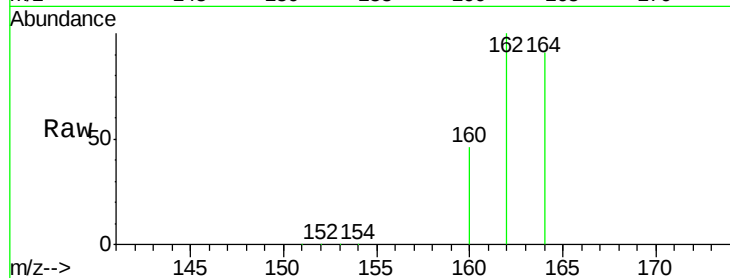
Tgt Ion:164 Resp: 93989

Ion Ratio Lower Upper

164 100

162 110.2 84.4 126.6

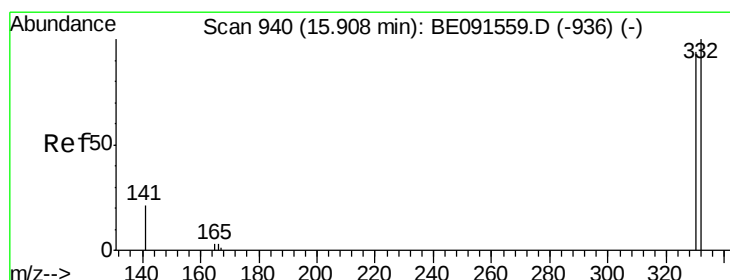
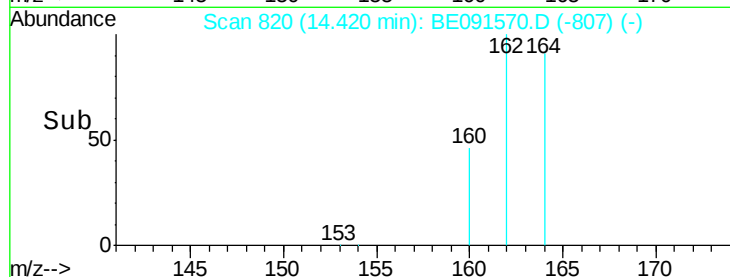
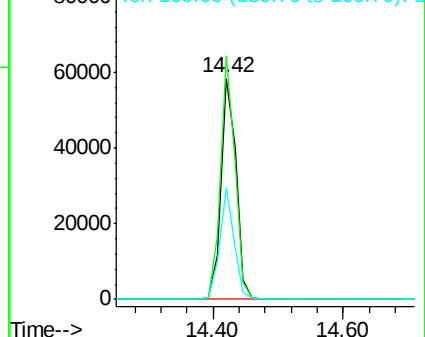
160 50.8 37.7 56.5



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#11

2,4,6-Tribromophenol

Concen: 6.01 ng

RT: 15.91 min Scan# 940

Delta R.T. -0.01 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

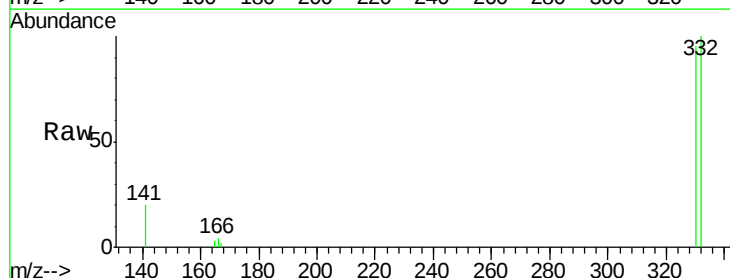
Tgt Ion:330 Resp: 25026

Ion Ratio Lower Upper

330 100

332 96.4 79.2 118.8

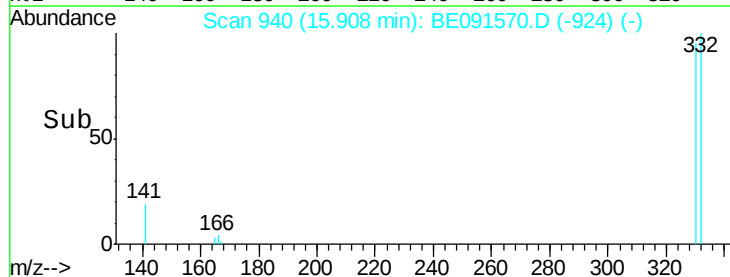
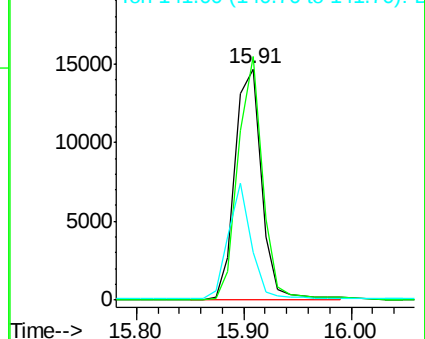
141 43.6 28.1 42.1#

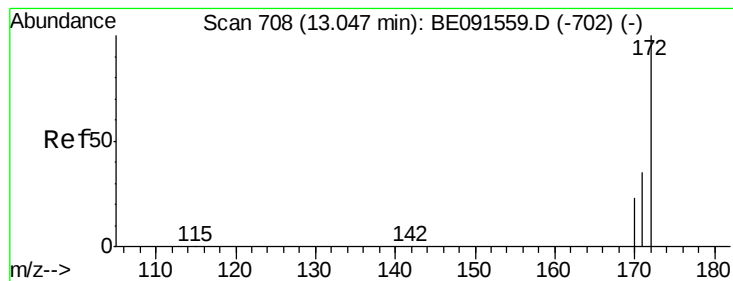


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#12

2-Fluorobiphenyl

Concen: 3.69 ng

RT: 13.05 min Scan# 708

Delta R.T. -0.02 min

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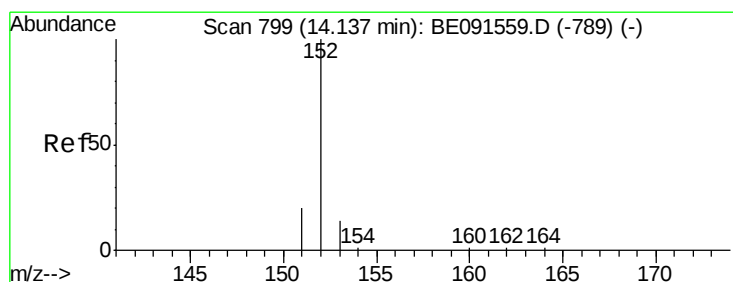
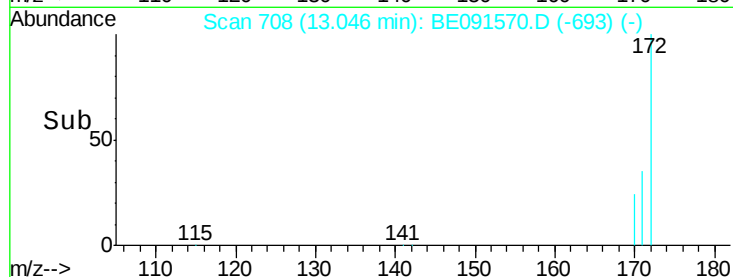
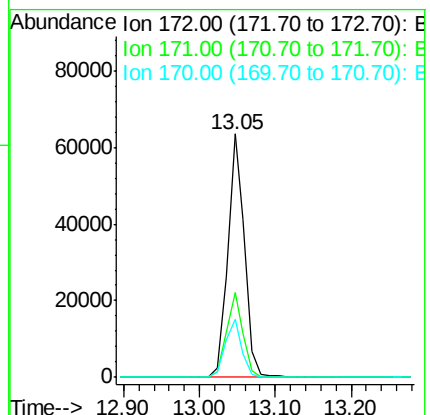
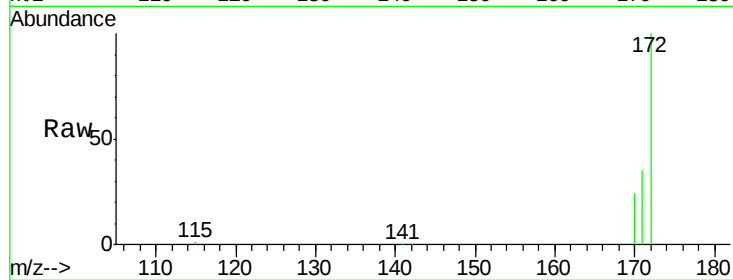
Tgt Ion:172 Resp: 98668

Ion Ratio Lower Upper

172 100

171 34.7 29.8 44.8

170 23.6 21.4 32.2



#13

Acenaphthylene

Concen: 0.01 ng

RT: 14.03 min Scan# 791

Delta R.T. -0.12 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

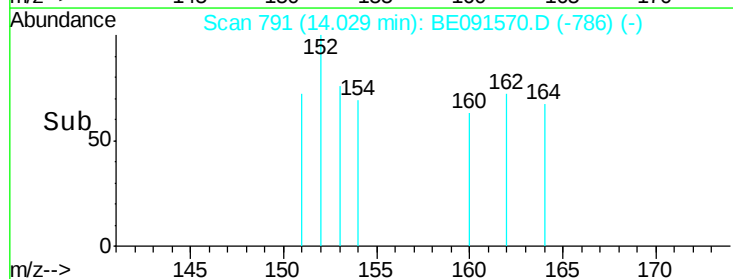
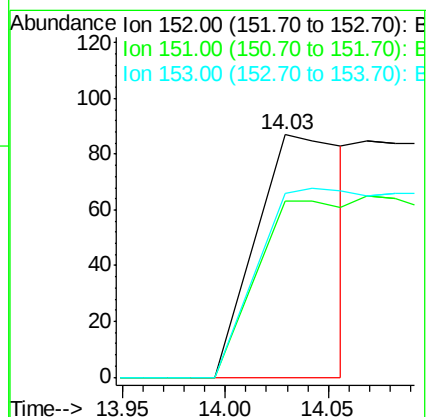
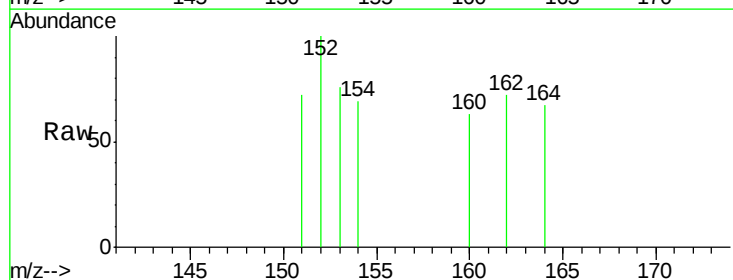
Tgt Ion:152 Resp: 278

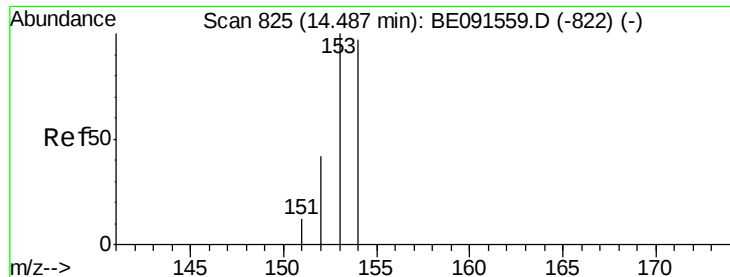
Ion Ratio Lower Upper

152 100

151 0.0 16.3 24.5#

153 98.9 11.1 16.7#





#14

Acenaphthene

Concen: 0.02 ng

RT: 14.42 min Scan# 820

Delta R.T. -0.08 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

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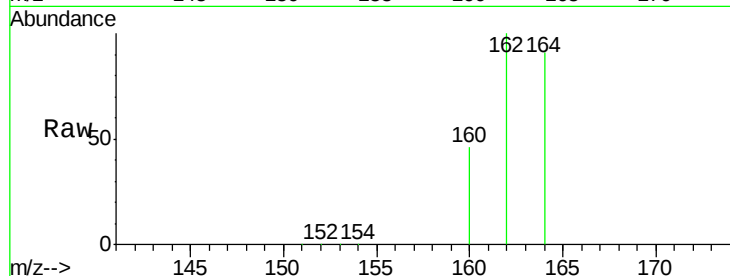
Tgt Ion:154 Resp: 378

Ion Ratio Lower Upper

154 100

153 7.1 87.3 130.9#

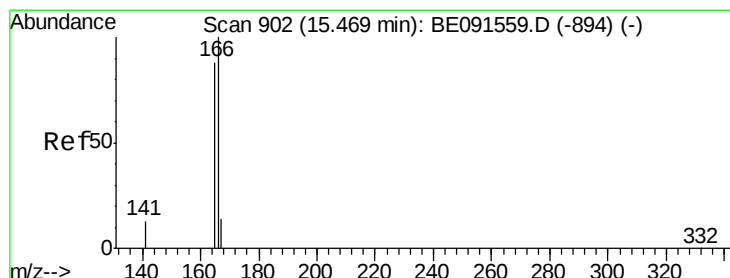
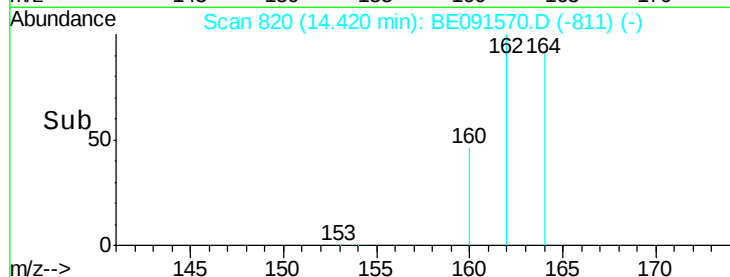
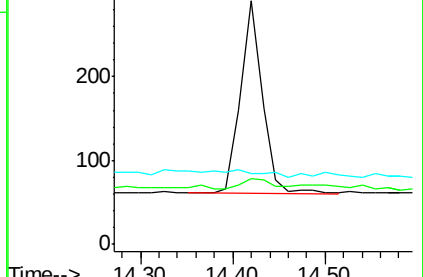
152 0.0 42.9 64.3#



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



#15

Fluorene

Concen: 0.00 ng

RT: 15.47 min Scan# 902

Delta R.T. -0.01 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

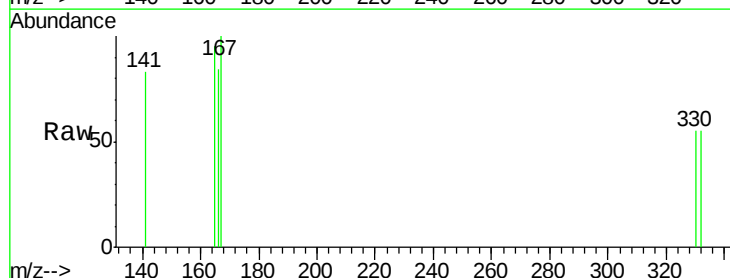
Tgt Ion:166 Resp: 45

Ion Ratio Lower Upper

166 100

165 0.0 79.2 118.8#

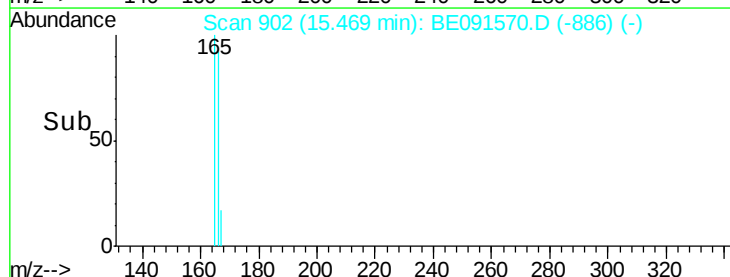
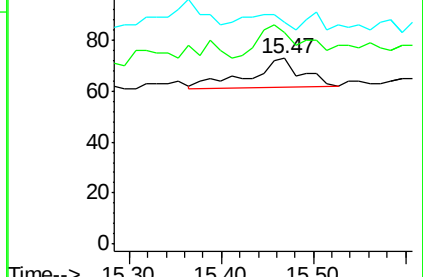
167 0.0 10.8 16.2#

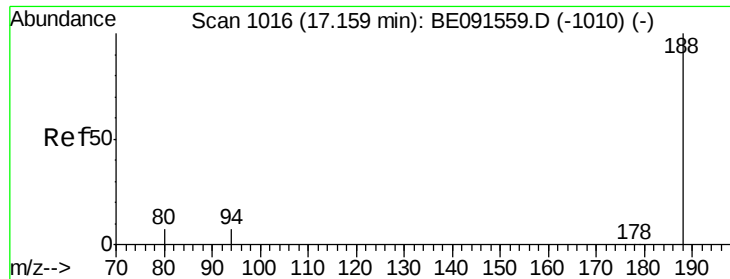


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

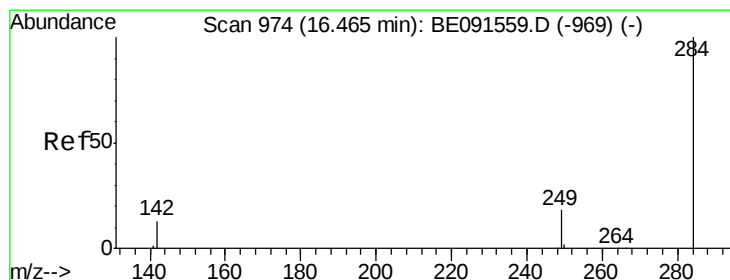
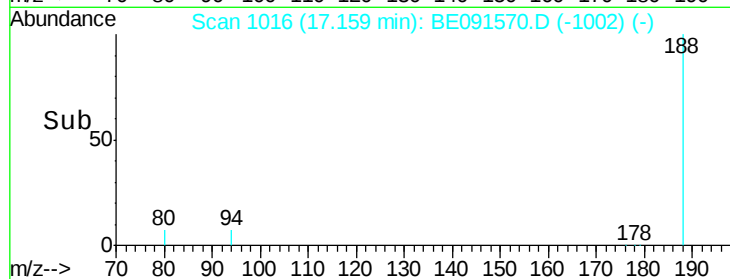
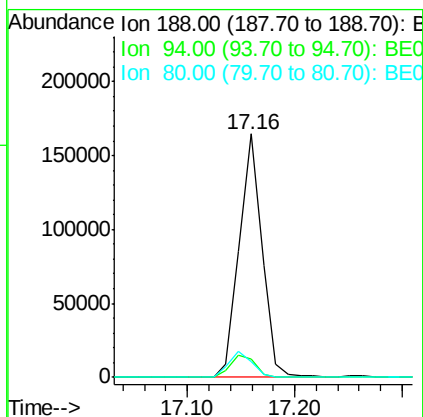
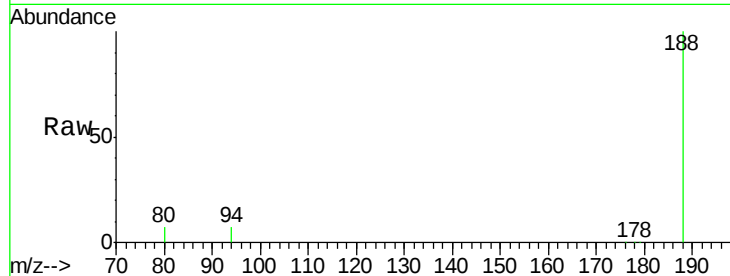




#16
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.16 min Scan# 1016
Delta R.T. -0.01 min
Lab File: BE091570.D
Acq: 31 Mar 2016 00:27

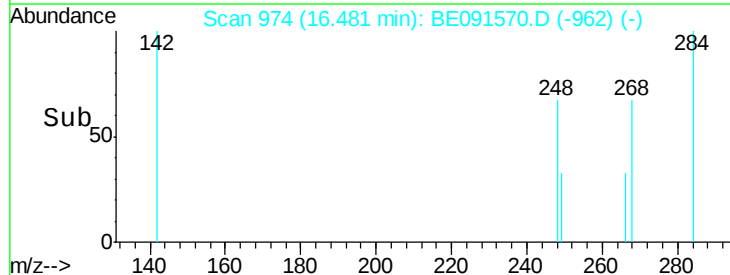
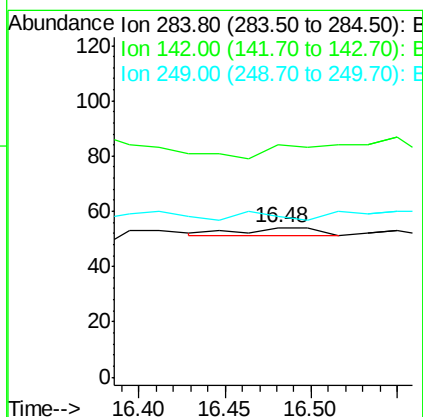
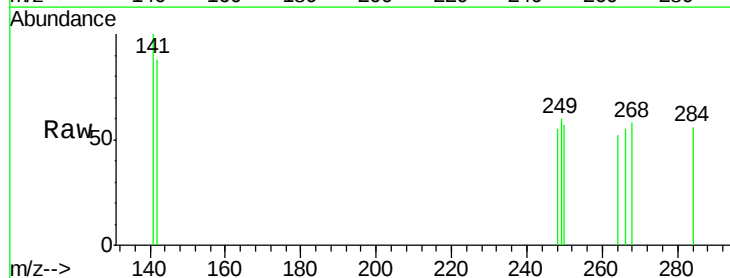
Instrument :
BNA_E
ClientSampleId :
PB89278BS

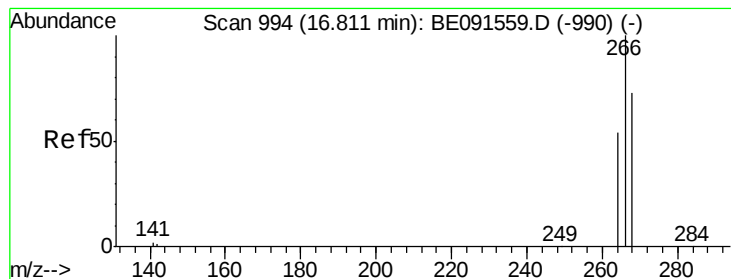
Tgt Ion:188 Resp: 241458
Ion Ratio Lower Upper
188 100
94 7.3 5.4 8.2
80 6.7 5.0 7.4



#17
Hexachlorobenzene
Concen: 0.00 ng
RT: 16.48 min Scan# 974
Delta R.T. -0.00 min
Lab File: BE091570.D
Acq: 31 Mar 2016 00:27

Tgt Ion:284 Resp: 9
Ion Ratio Lower Upper
284 100
142 0.0 31.0 46.4#
249 44.4 25.8 38.8#





#18

Pentachlorophenol

Concen: 0.01 ng

RT: 16.81 min Scan# 993

Delta R.T. -0.02 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

Instrument :

BNA_E

ClientSampleId :

PB89278BS

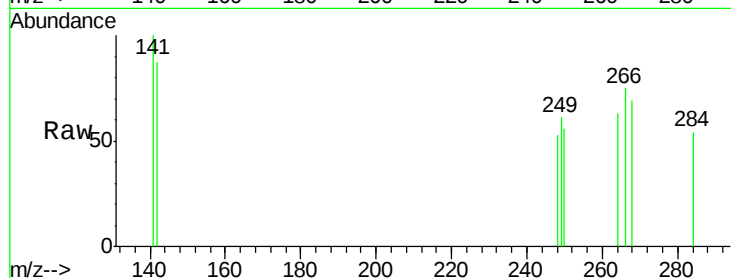
Tgt Ion:266 Resp: 51

Ion Ratio Lower Upper

266 100

268 91.9 48.2 72.2#

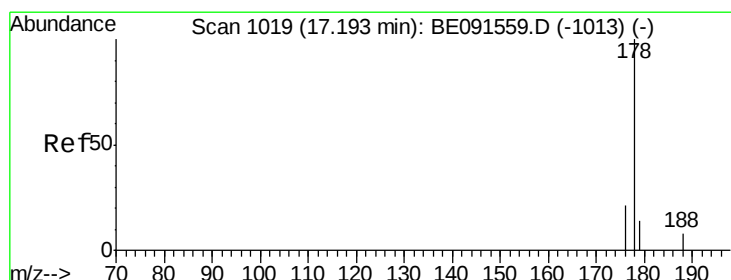
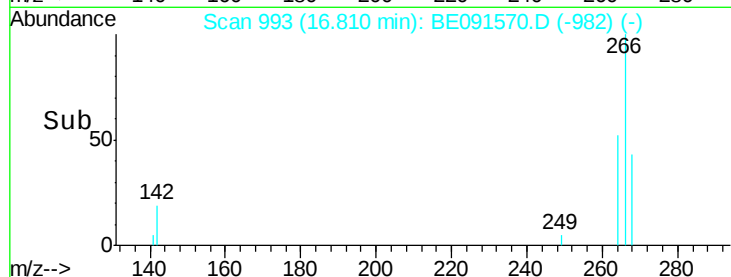
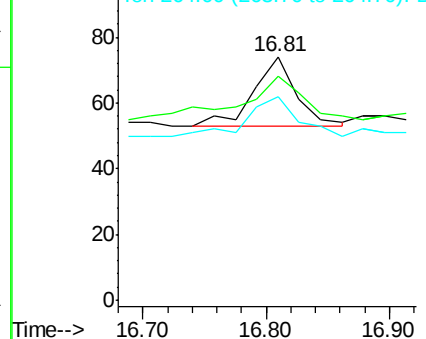
264 83.8 52.1 78.1#



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



#19

Phenanthrene

Concen: 0.00 ng

RT: 17.16 min Scan# 1016

Delta R.T. -0.05 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

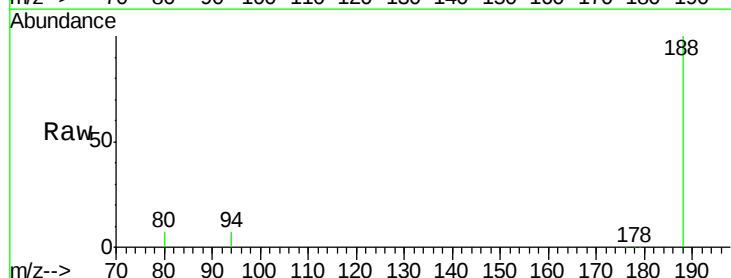
Tgt Ion:178 Resp: 101

Ion Ratio Lower Upper

178 100

176 0.0 15.5 23.3#

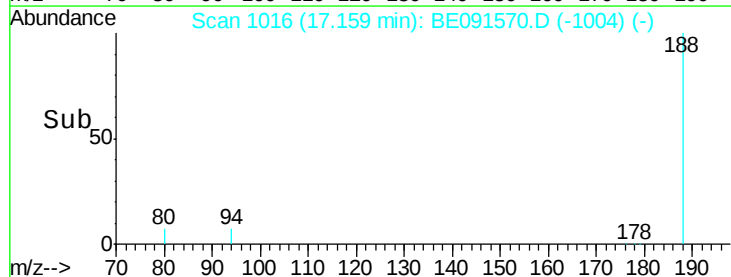
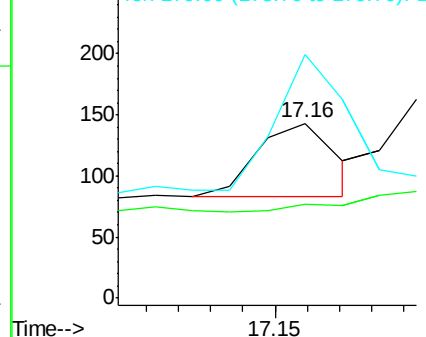
179 197.0 13.1 19.7#

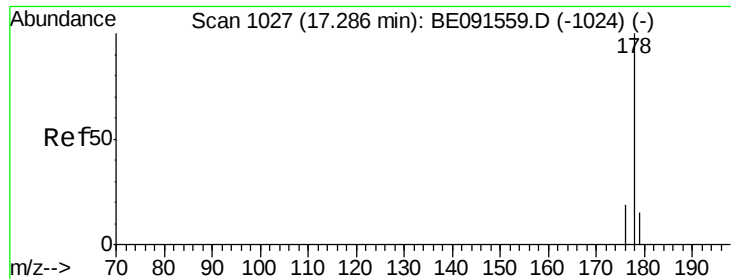


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#20

Anthracene

Concen: 0.00 ng

RT: 17.29 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

Instrument :

BNA_E

ClientSampleId :

PB89278BS

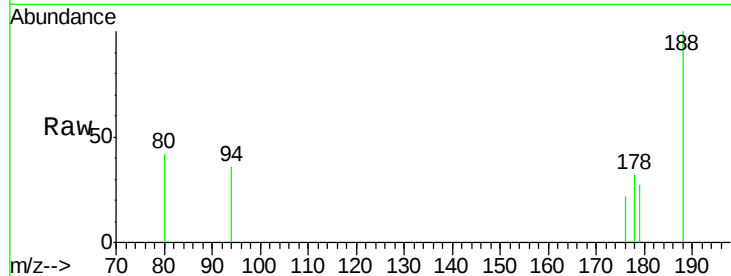
Tgt Ion:178 Resp: 45

Ion Ratio Lower Upper

178 100

176 0.0 14.9 22.3#

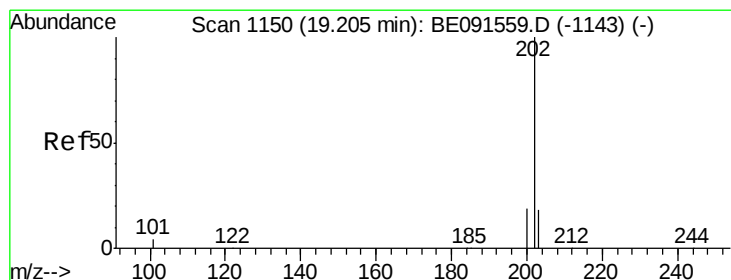
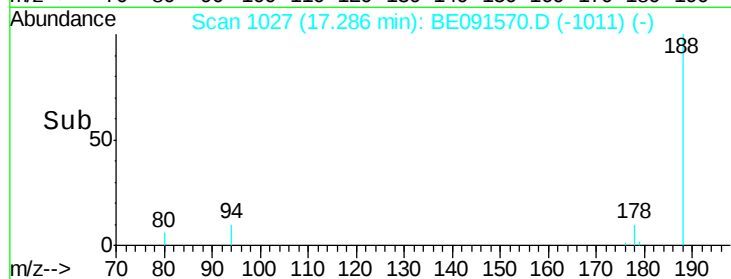
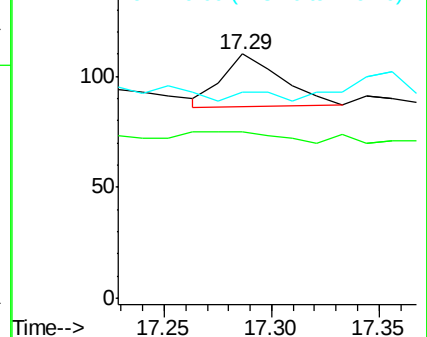
179 13.3 12.2 18.4



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



#21

Fluoranthene

Concen: 0.00 ng

RT: 19.20 min Scan# 1150

Delta R.T. -0.02 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

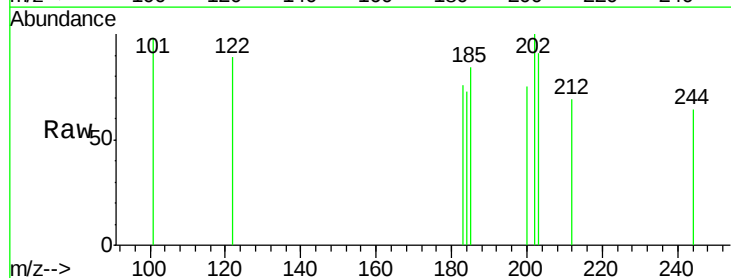
Tgt Ion:202 Resp: 59

Ion Ratio Lower Upper

202 100

101 37.3 8.3 12.5#

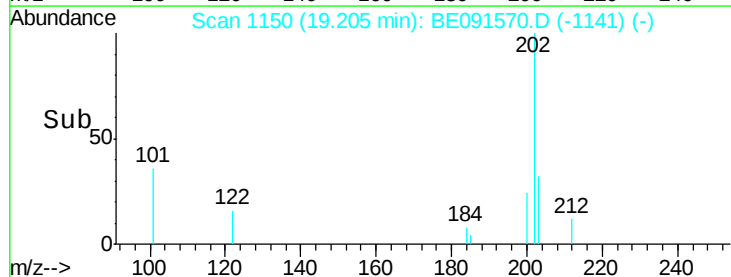
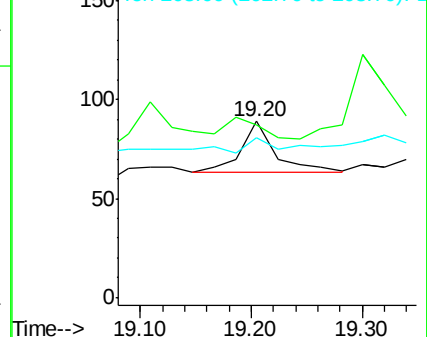
203 15.3 13.9 20.9

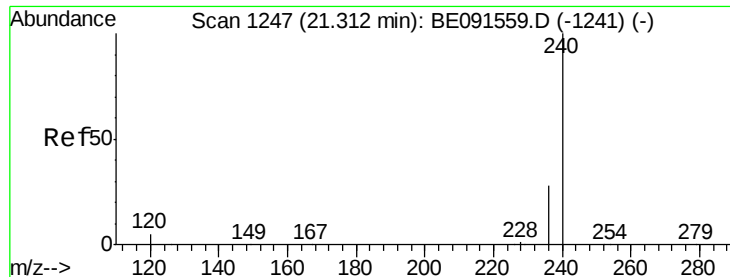


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#22

Chrysene-d12

Concen: 5.00 ng

RT: 21.31 min Scan# 1247

Delta R.T. -0.02 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

Instrument :

BNA_E

ClientSampleId :

PB89278BS

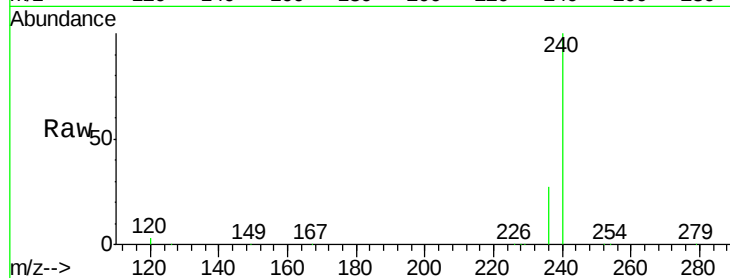
Tgt Ion:240 Resp: 361316

Ion Ratio Lower Upper

240 100

120 3.2 4.0 6.0#

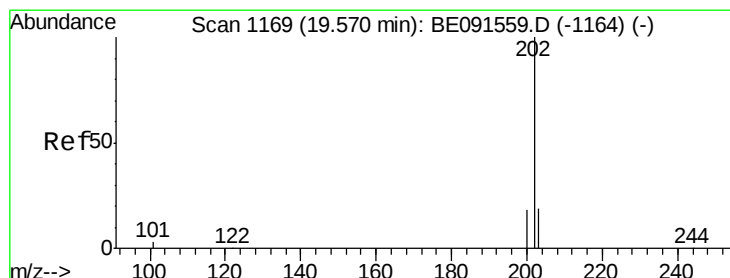
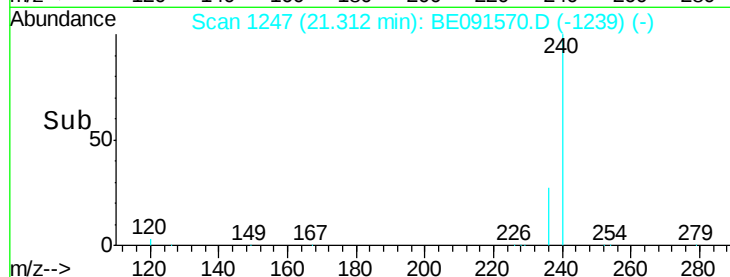
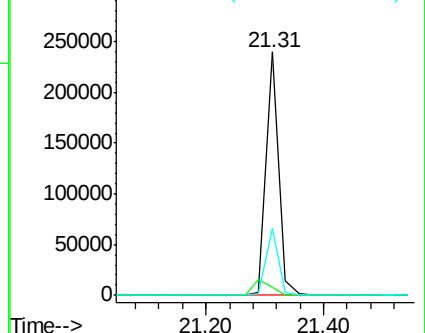
236 27.3 23.0 34.4



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



#23

Pyrene

Concen: 0.00 ng

RT: 19.57 min Scan# 1169

Delta R.T. -0.00 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

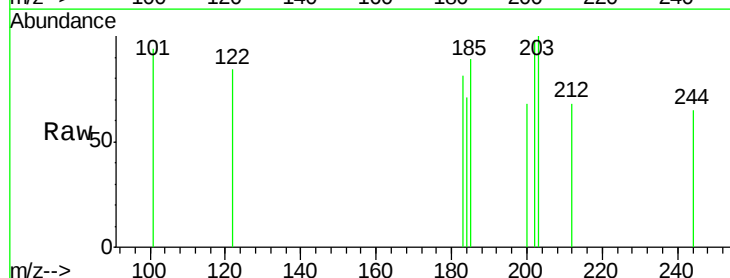
Tgt Ion:202 Resp: 62

Ion Ratio Lower Upper

202 100

200 24.2 16.4 24.6

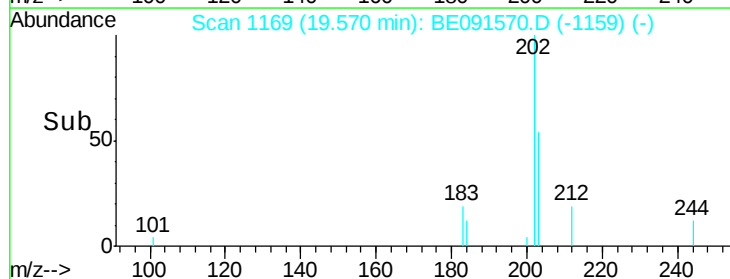
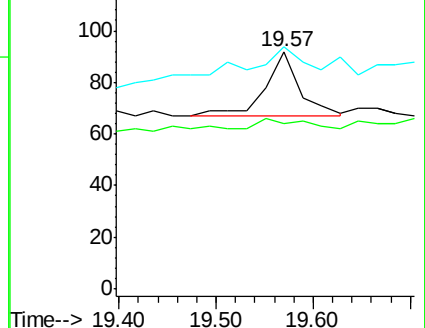
203 146.8 14.6 21.8#

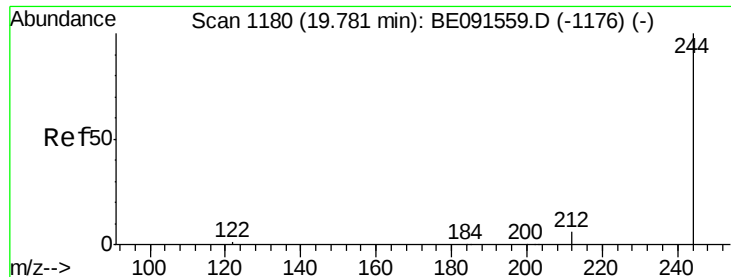


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#24

Terphenyl-d14

Concen: 3.37 ng

RT: 19.76 min Scan# 1179

Delta R.T. -0.02 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

Instrument :

BNA_E

ClientSampleId :

PB89278BS

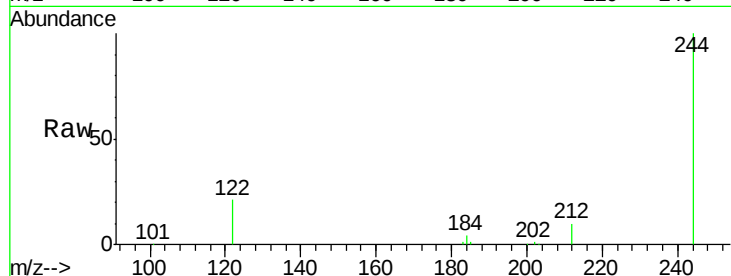
Tgt Ion:244 Resp: 154519

Ion Ratio Lower Upper

244 100

212 10.4 5.8 8.8#

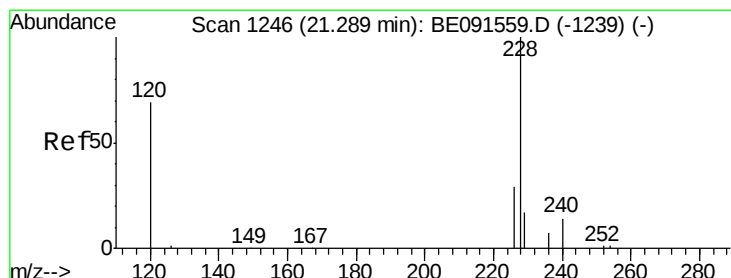
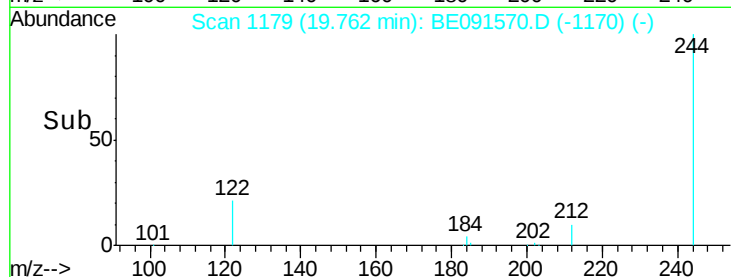
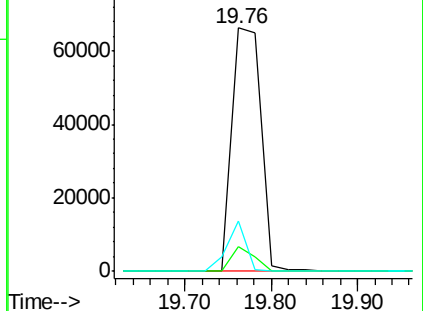
122 20.7 1.8 2.8#



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



#25

Benzo(a)anthracene

Concen: 0.01 ng

RT: 21.31 min Scan# 1247

Delta R.T. -0.00 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

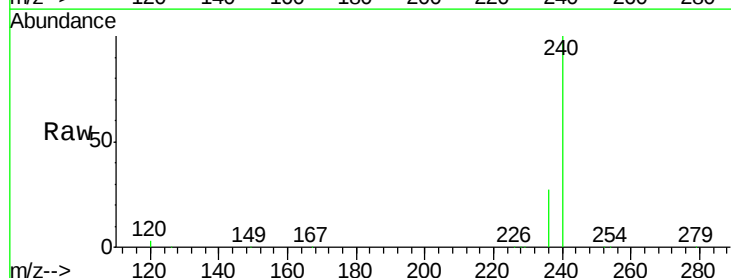
Tgt Ion:228 Resp: 1021

Ion Ratio Lower Upper

228 100

226 17.9 24.0 36.0#

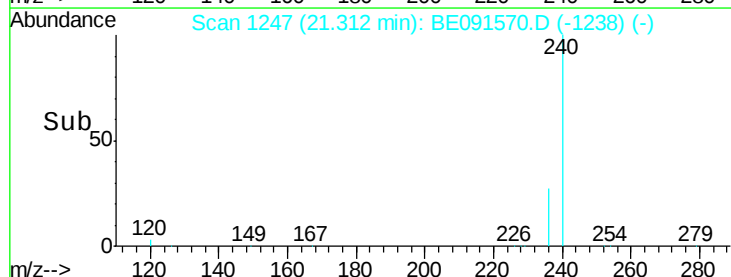
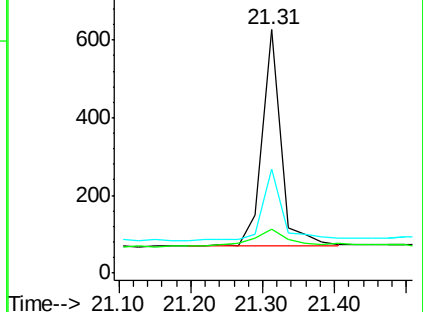
229 42.6 13.8 20.6#

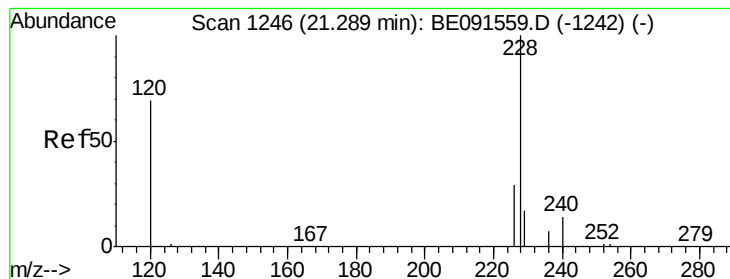


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#26

Chrysene

Concen: 0.01 ng

RT: 21.31 min Scan# 1247

Delta R.T. -0.05 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

Instrument :

BNA_E

ClientSampleId :

PB89278BS

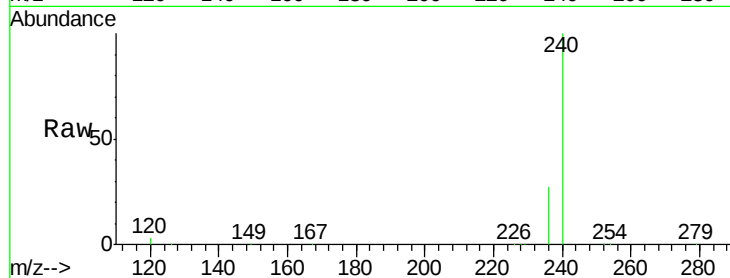
Tgt Ion:228 Resp: 1028

Ion Ratio Lower Upper

228 100

226 17.9 18.9 28.3#

229 42.6 19.1 28.7#



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

21.31

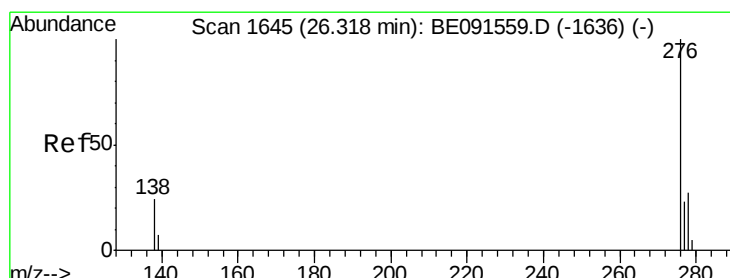
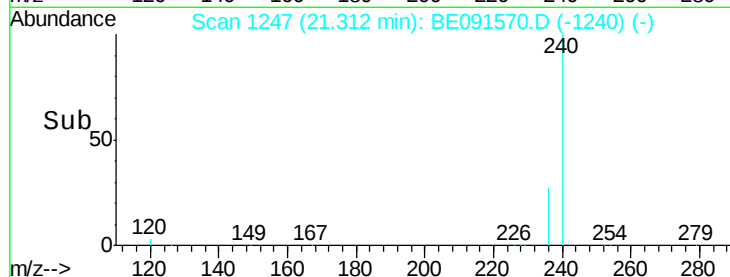
600

400

200

0

Time-->



#27

Indeno(1,2,3-cd)pyrene

Concen: 0.00 ng

RT: 26.33 min Scan# 1646

Delta R.T. -0.04 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

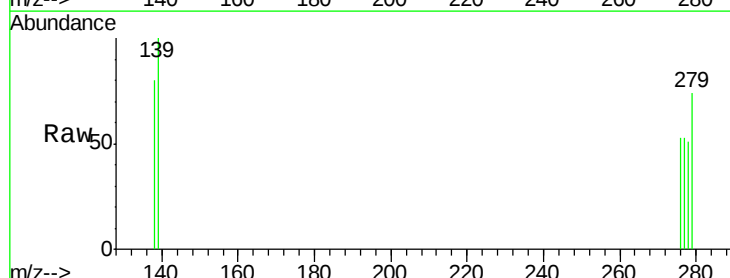
Tgt Ion:276 Resp: 65

Ion Ratio Lower Upper

276 100

138 127.7 20.2 30.4#

277 43.1 19.8 29.8#



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

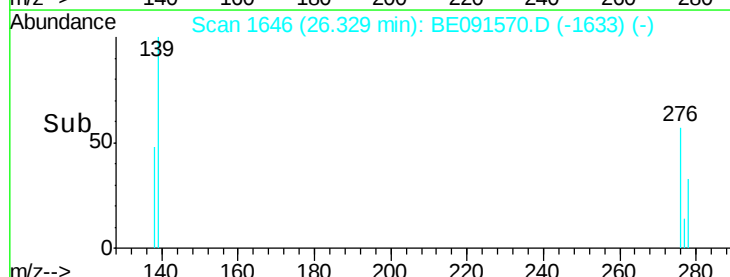
150

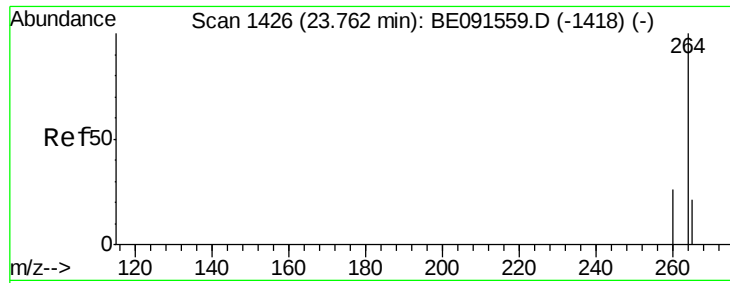
100

50

0

Time-->

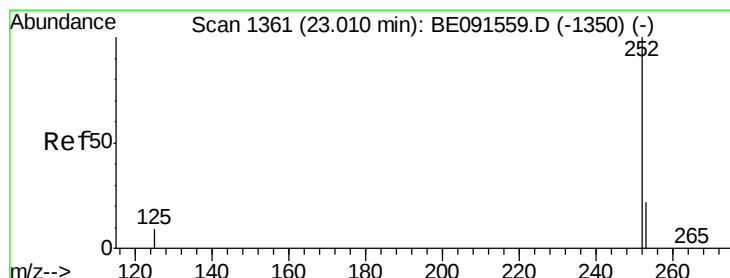
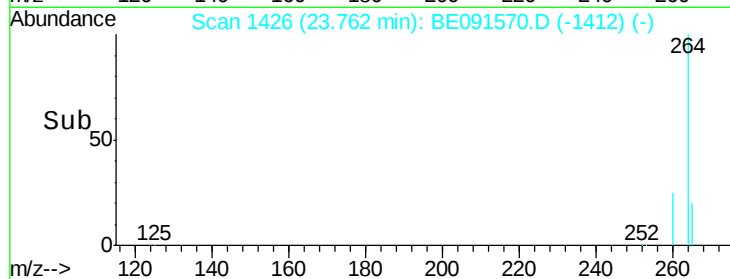
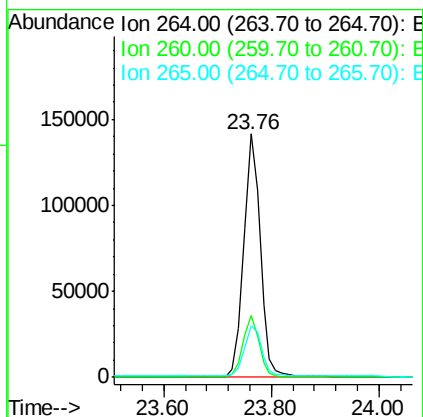
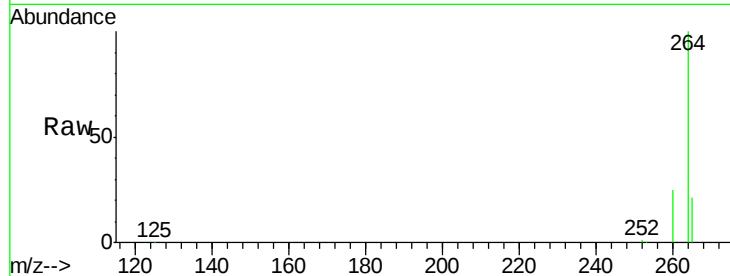




#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.76 min Scan# 1426
 Delta R.T. -0.03 min
 Lab File: BE091570.D
 Acq: 31 Mar 2016 00:27

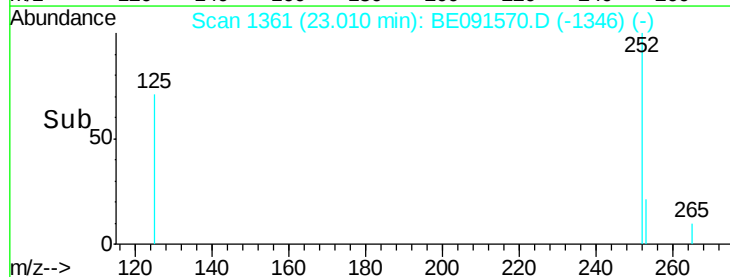
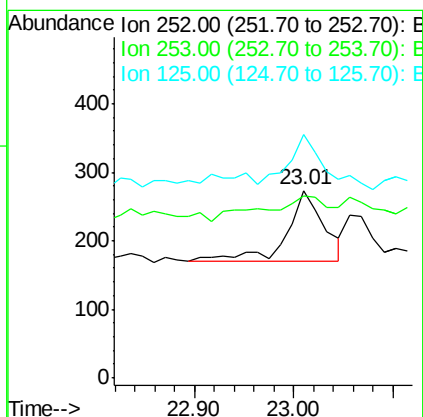
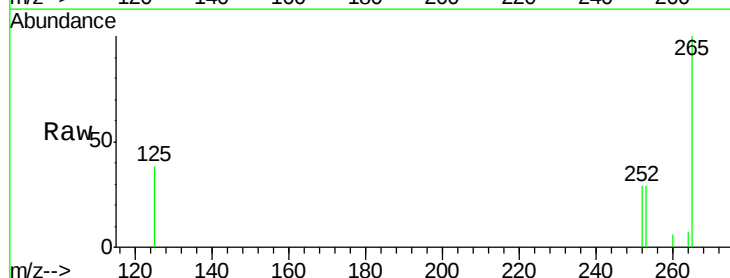
Instrument :
 BNA_E
 ClientSampleId :
 PB89278BS

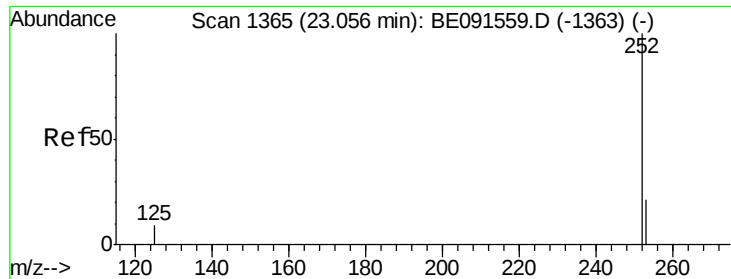
Tgt Ion: 264 Resp: 302702
 Ion Ratio Lower Upper
 264 100
 260 25.5 20.1 30.1
 265 21.1 18.3 27.5



#29
 Benzo(b)fluoranthene
 Concen: 0.00 ng
 RT: 23.01 min Scan# 1361
 Delta R.T. -0.02 min
 Lab File: BE091570.D
 Acq: 31 Mar 2016 00:27

Tgt Ion: 252 Resp: 262
 Ion Ratio Lower Upper
 252 100
 253 97.4 18.7 28.1#
 125 130.0 9.8 14.6#





#30

Benzo(k)fluoranthene

Concen: 0.00 ng

RT: 23.06 min Scan# 1365

Delta R.T. -0.02 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

Instrument :

BNA_E

ClientSampleId :

PB89278BS

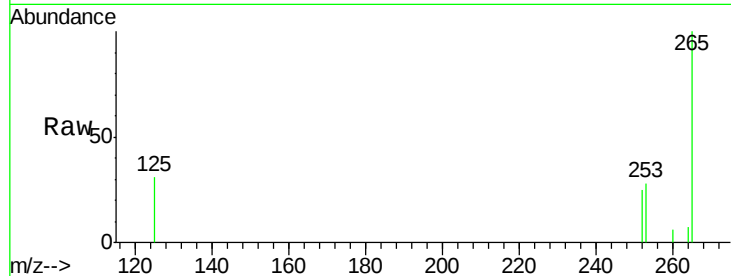
Tgt Ion: 252 Resp: 142

Ion Ratio Lower Upper

252 100

253 110.5 20.2 30.4#

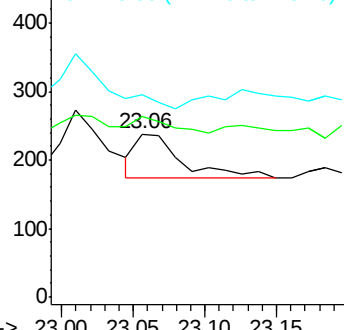
125 123.9 9.4 14.2#



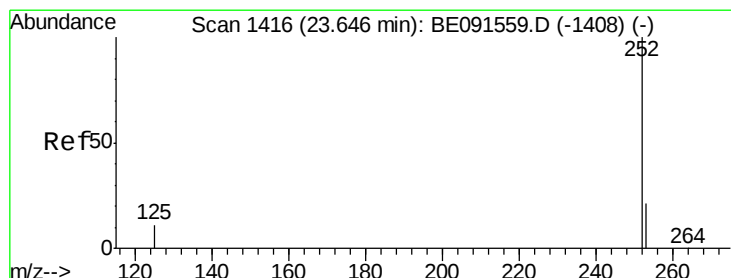
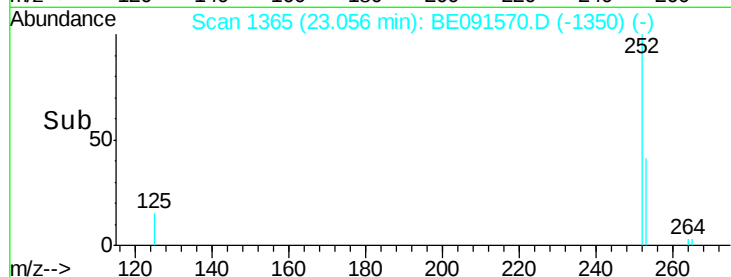
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#31

Benzo(a)pyrene

Concen: 0.00 ng

RT: 23.63 min Scan# 1415

Delta R.T. -0.04 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

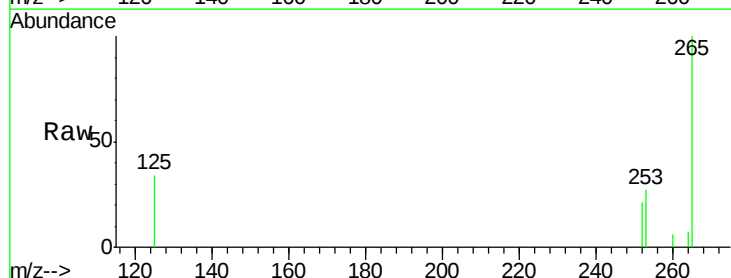
Tgt Ion: 252 Resp: 81

Ion Ratio Lower Upper

252 100

253 129.6 19.4 29.0#

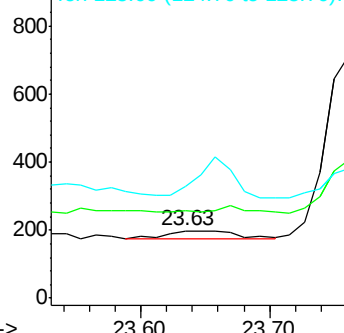
125 164.8 11.4 17.2#



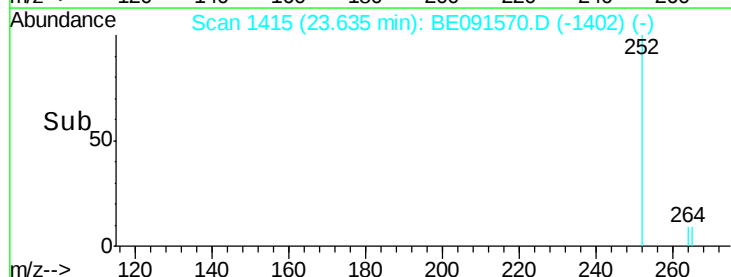
Abundance Ion 252.00 (251.70 to 252.70): E

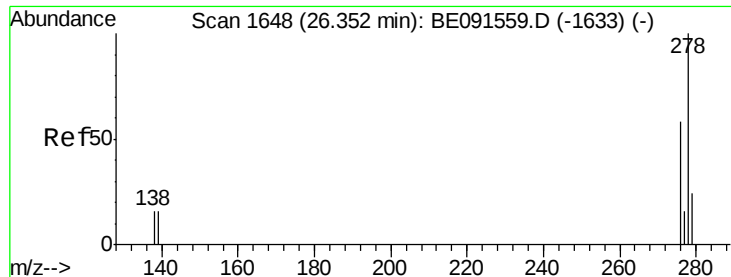
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->





#32

Dibenzo(a,h)anthracene

Concen: 0.00 ng

RT: 26.33 min Scan# 1646

Delta R.T. -0.07 min

Lab File: BE091570.D

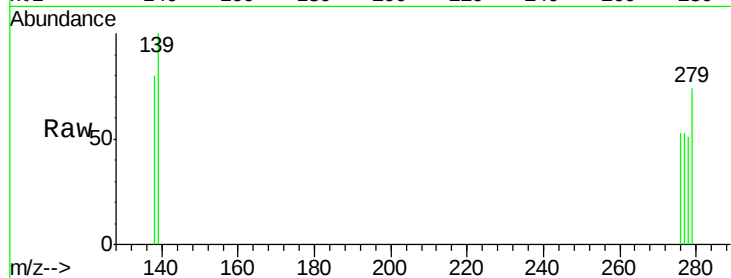
Acq: 31 Mar 2016 00:27

Instrument :

BNA_E

ClientSampleId :

PB89278BS



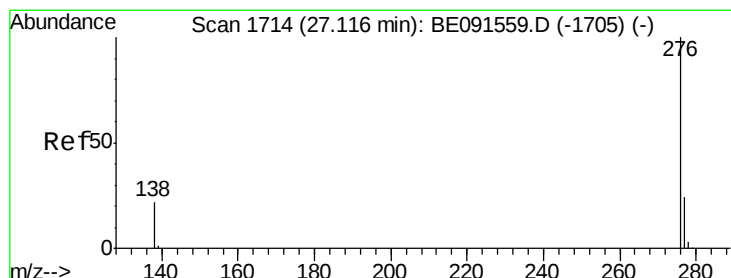
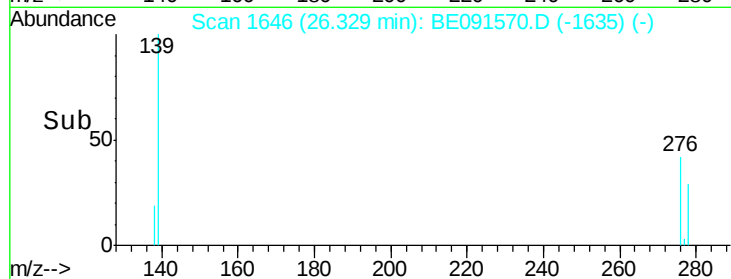
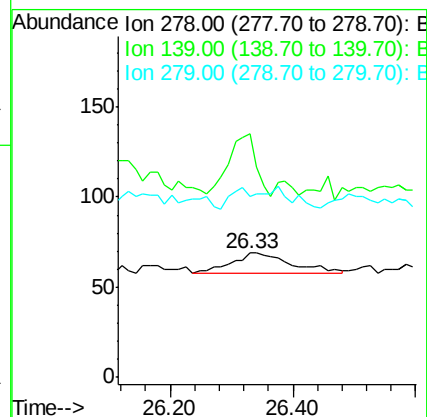
Tgt Ion: 278 Resp: 71

Ion Ratio Lower Upper

278 100

139 195.7 14.2 21.4#

279 144.9 19.6 29.4#



#33

Benzo(g,h,i)perylene

Concen: 0.00 ng

RT: 27.10 min Scan# 1713

Delta R.T. -0.06 min

Lab File: BE091570.D

Acq: 31 Mar 2016 00:27

Tgt Ion: 276 Resp: 73

Ion Ratio Lower Upper

276 100

277 95.9 19.4 29.2#

138 137.0 18.2 27.4#

