

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA E\DATA\BE091317\
 Data File : BE093991.D
 Acq On : 13 Sep 2017 16:19
 Operator : SJ/JU
 Sample : PB102310BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB102310BS

Quant Time: Sep 14 00:54:25 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE090517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 05 13:34:56 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.92	152	3046	0.40	ng	0.00
7) Naphthalene-d8	10.71	136	15023	0.40	ng	0.00
13) Acenaphthene-d10	14.52	164	11301	0.40	ng	0.00
19) Phenanthrene-d10	17.27	188	27917	0.40	ng	0.00
27) Chrysene-d12	21.43	240	33336	0.40	ng	0.00
34) Perylene-d12	23.94	264	25061	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.53	112	1290	0.13	ng	0.00
5) Phenol-d6	7.11	99	1557	0.11	ng	0.00
8) Nitrobenzene-d5	9.08	82	1486	0.12	ng	0.00
11) 2-Methylnaphthalene-d10	12.31	152	2928	0.12	ng	0.01
14) 2,4,6-Tribromophenol	16.03	330	301	0.09	ng	0.00
15) 2-Fluorobiphenyl	13.18	172	3846	0.09	ng	0.02
25) Fluoranthene-d10	19.29	212	32693	0.08	ng	0.00
29) Terphenyl-d14	19.87	244	6135	0.10	ng	0.00

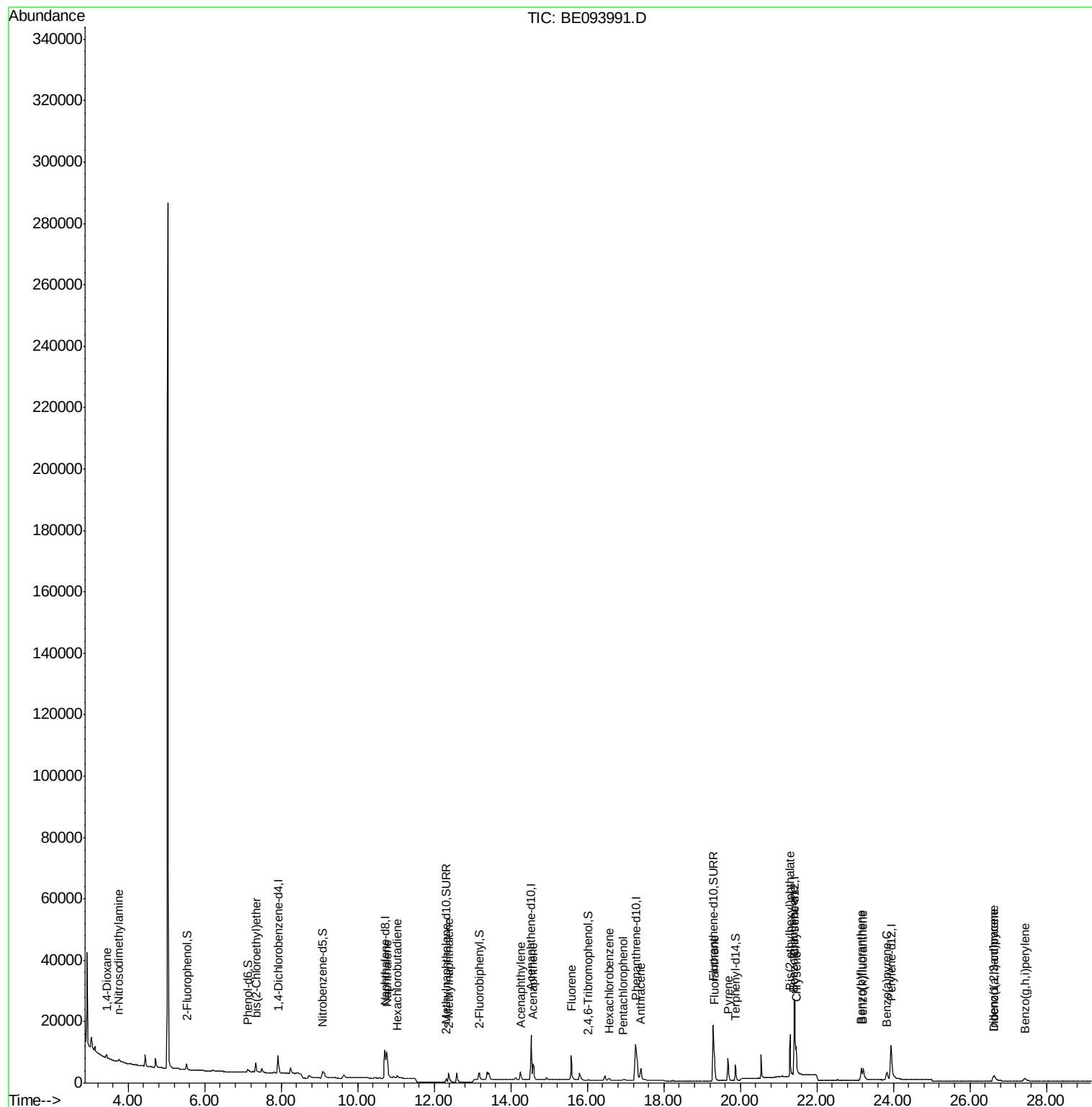
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.44	88	743	0.177	ng	# 1
3) n-Nitrosodimethylamine	3.75	42	860	0.175	ng	# 78
6) bis(2-Chloroethyl)ether	7.34	93	1483	0.123	ng	91
9) Naphthalene	10.76	128	19967	0.116	ng	99
10) Hexachlorobutadiene	11.03	225	712	0.114	ng	95
12) 2-Methylnaphthalene	12.38	142	3300	0.115	ng	98
16) Acenaphthylene	14.26	152	4557	0.081	ng	100
17) Acenaphthene	14.58	154	3369	0.088	ng	98
18) Fluorene	15.58	166	4260	0.087	ng	98
21) Hexachlorobenzene	16.58	284	1230	0.075	ng	# 100
22) Pentachlorophenol	16.94	266	514	0.116	ng	94
23) Phenanthrene	17.30	178	8609	Below Cal		# 99
24) Anthracene	17.40	178	6776	0.080	ng	# 94
26) Fluoranthene	19.32	202	9065	0.073	ng	99
28) Pyrene	19.67	202	9300	0.081	ng	99
30) Benzo(a)anthracene	21.40	228	8449	0.083	ng	99
31) Chrysene	21.46	228	8919	0.082	ng	98
32) Bis(2-ethylhexyl)phthalate	21.30	149	17274	0.069	ng	99
33) Indeno(1,2,3-cd)pyrene	26.62	276	4528	0.063	ng	98
35) Benzo(b)fluoranthene	23.16	252	6630	0.083	ng	# 94
36) Benzo(k)fluoranthene	23.21	252	8536	0.087	ng	# 93
37) Benzo(a)pyrene	23.83	252	6941	0.085	ng	# 90
38) Dibenzo(a,h)anthracene	26.64	278	3736	0.069	ng	# 80
39) Benzo(g,h,i)perylene	27.43	276	4324	0.076	ng	# 90

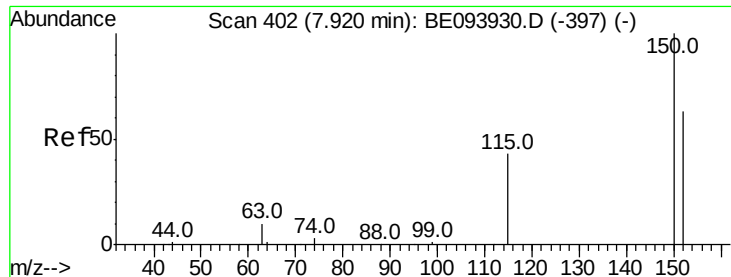
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA E\DATA\BE091317\
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QLast Update : Tue Sep 05 13:34:56 2017
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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.92 min Scan# 402

Delta R.T. -0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

Instrument :

BNA_E

ClientSampleId :

PB102310BS

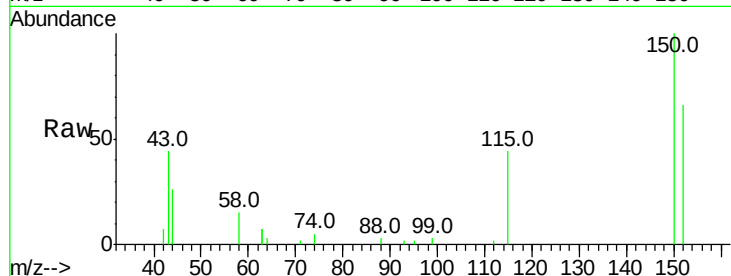
Tot Ion:152 Resp: 3046

Ion Ratio Lower Upper

152 100

150 151.1 121.8 182.6

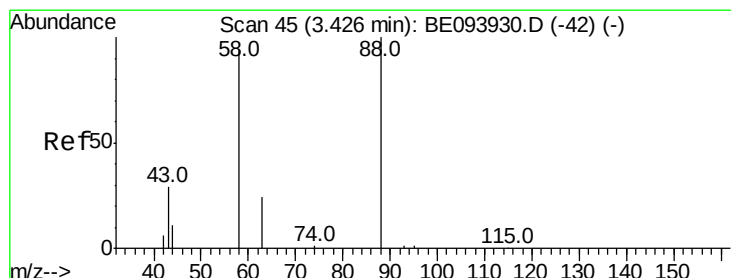
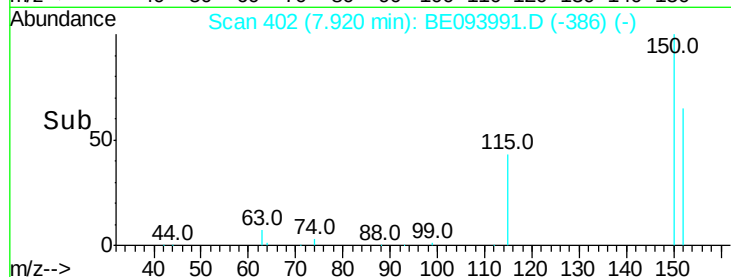
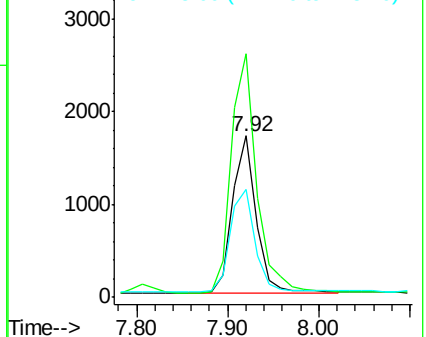
115 66.6 52.6 79.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.177 ng

RT: 3.44 min Scan# 46

Delta R.T. 0.01 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

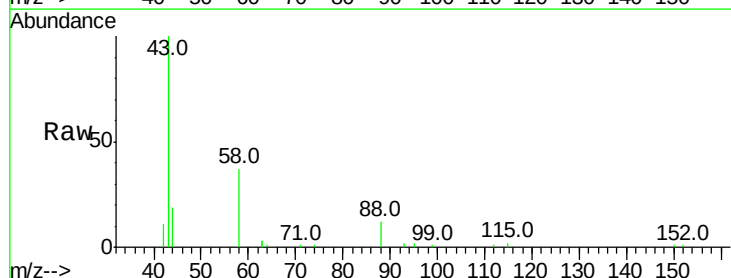
Tgt Ion: 88 Resp: 743

Ion Ratio Lower Upper

88 100

58 187.2 65.4 98.0#

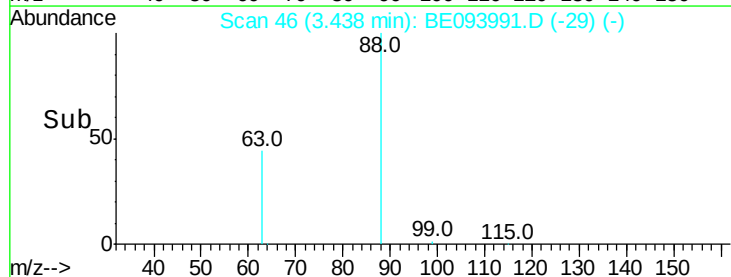
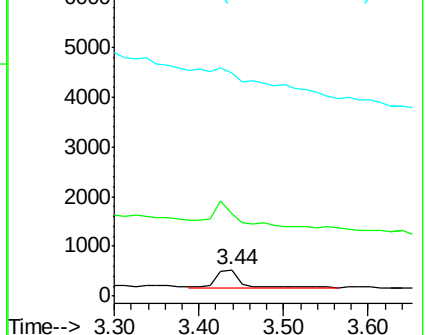
43 0.0 23.9 35.9#

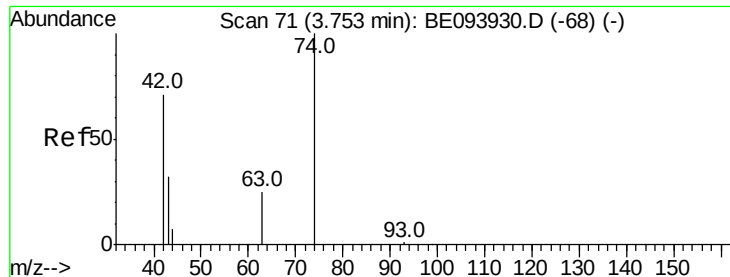


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.175 ng

RT: 3.75 min Scan# 71

Delta R.T. -0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

Instrument :

BNA_E

ClientSampleId :

PB102310BS

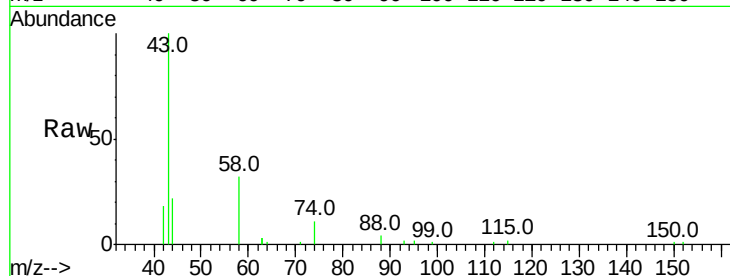
Tot Ion: 42 Resp: 860

Ion Ratio Lower Upper

42 100

74 104.0 104.0 156.0#

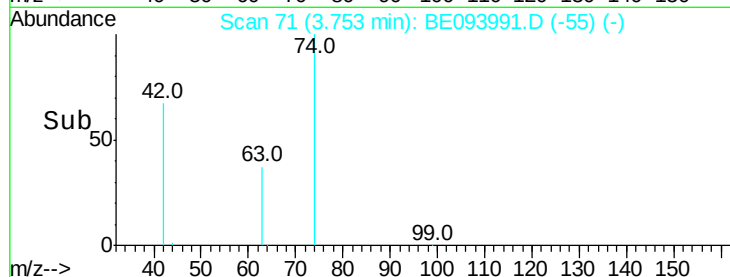
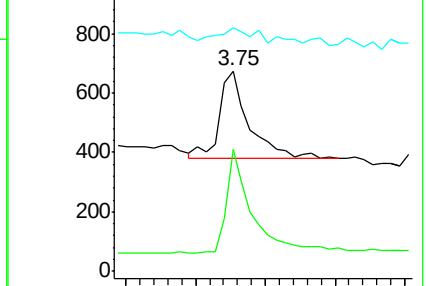
44 27.2 13.8 20.8#



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: 0.131 ng

RT: 5.53 min Scan# 212

Delta R.T. -0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

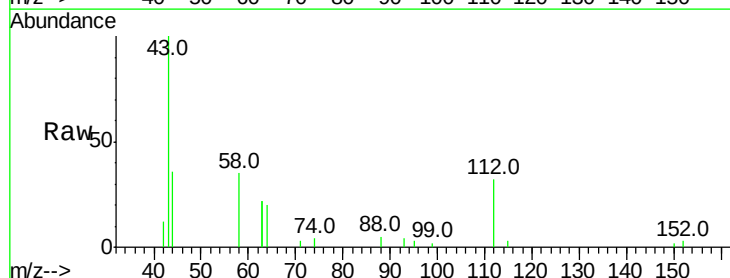
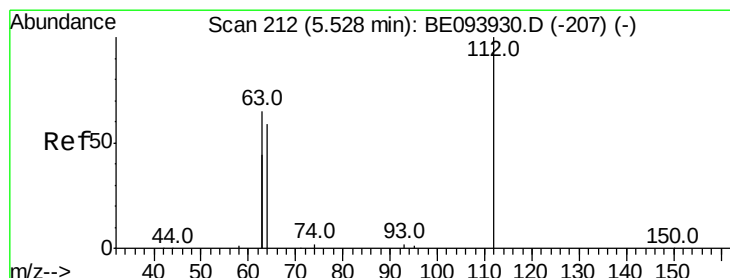
Tgt Ion: 112 Resp: 1290

Ion Ratio Lower Upper

112 100

64 74.5 57.7 86.5

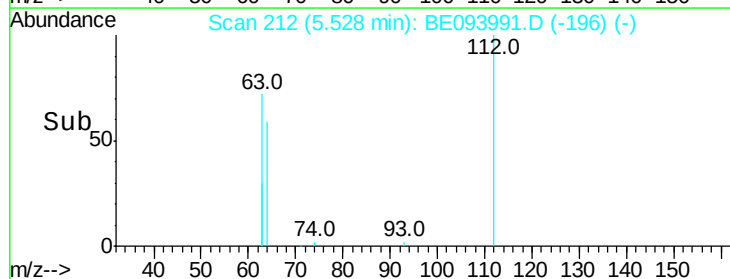
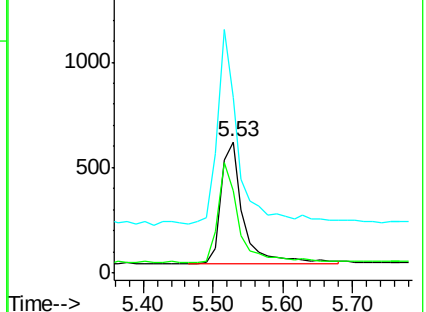
63 142.2 116.0 174.0

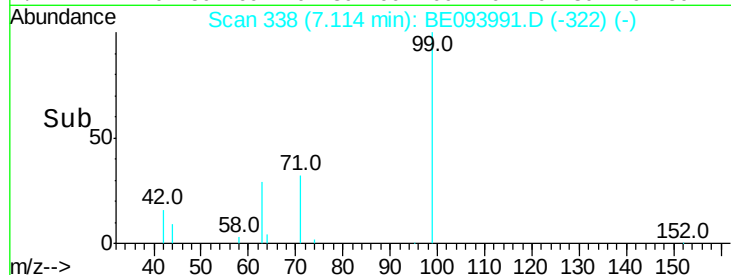
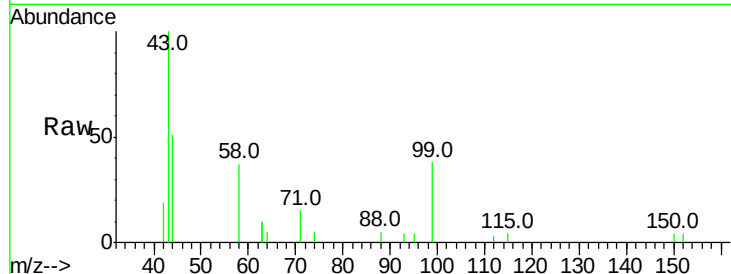
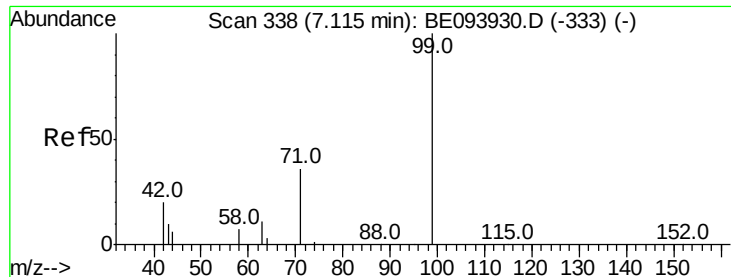


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.105 ng

RT: 7.11 min Scan# 338

Delta R.T. -0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

Instrument :

BNA_E

ClientSampleId :

PB102310BS

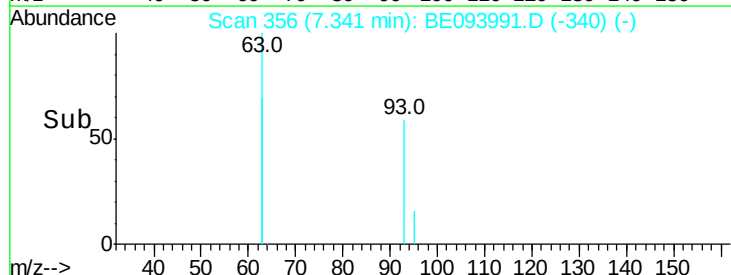
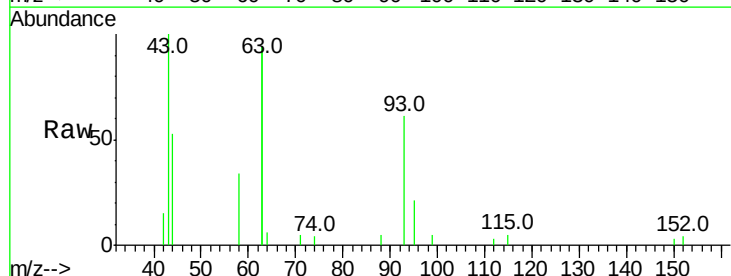
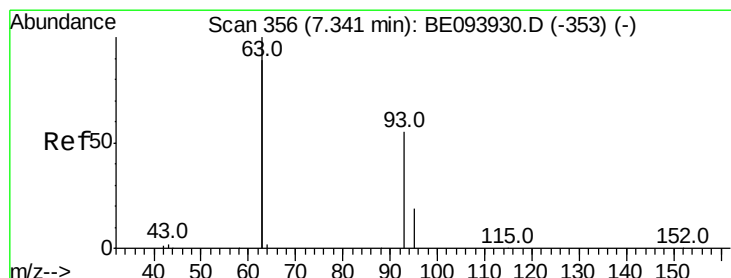
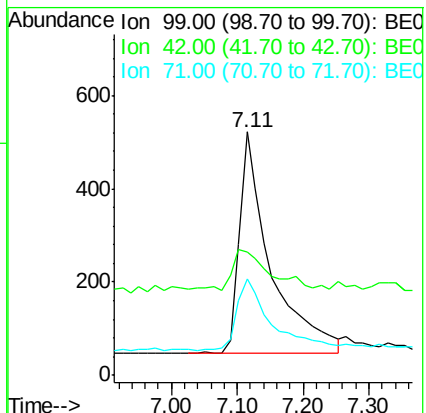
Tot Ion: 99 Resp: 1557

Ion Ratio Lower Upper

99 100

42 22.2 17.1 25.7

71 35.4 26.6 39.8



#6

bis(2-Chloroethyl)ether

Concen: 0.123 ng

RT: 7.34 min Scan# 356

Delta R.T. -0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

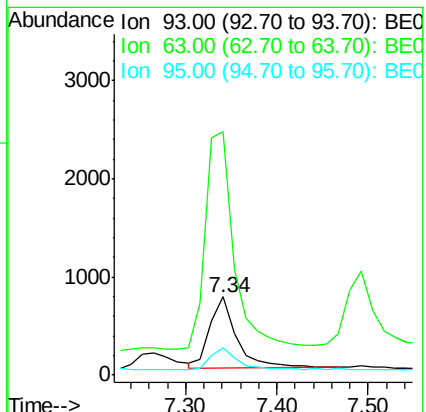
Tgt Ion: 93 Resp: 1483

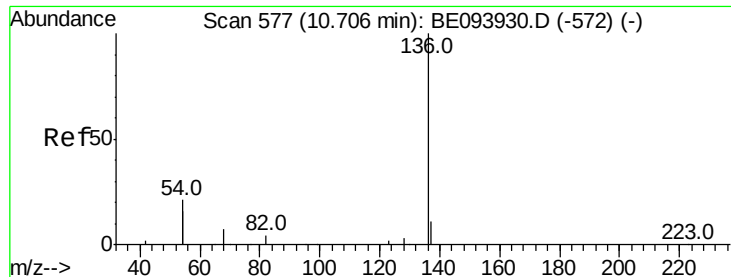
Ion Ratio Lower Upper

93 100

63 332.6 283.4 425.2

95 31.8 26.9 40.3





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.71 min Scan# 577

Delta R.T. 0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

Instrument :

BNA_E

ClientSampleId :

PB102310BS

Tot Ion:136 Resp: 15023

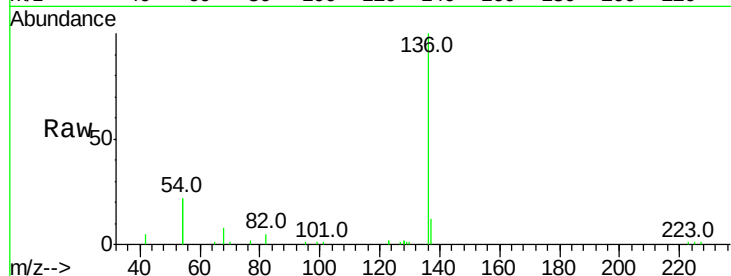
Ion Ratio Lower Upper

136 100

137 11.6 9.2 13.8

54 43.2 21.9 32.9#

68 8.4 4.6 7.0#

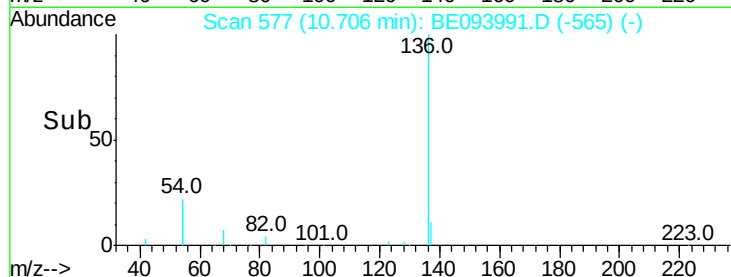


Abundance Ion 136.00 (135.70 to 136.70): E

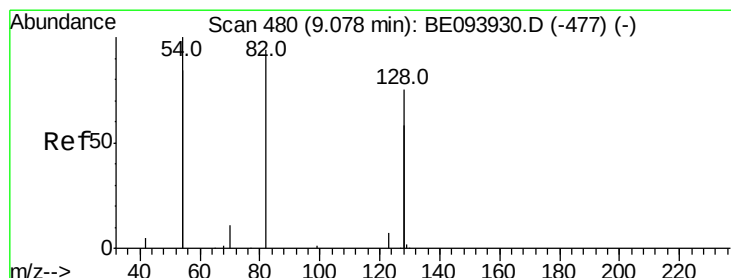
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



Time-->



#8

Nitrobenzene-d5

Concen: 0.117 ng

RT: 9.08 min Scan# 480

Delta R.T. 0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

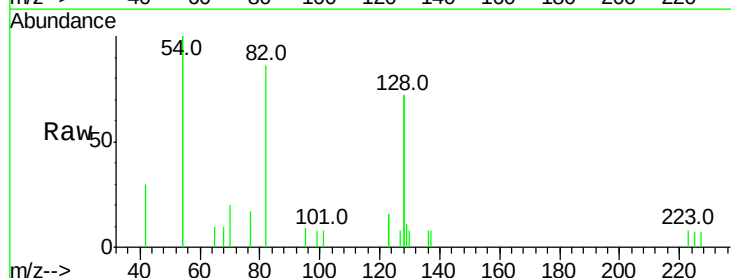
Tgt Ion: 82 Resp: 1486

Ion Ratio Lower Upper

82 100

128 167.7 91.4 137.0#

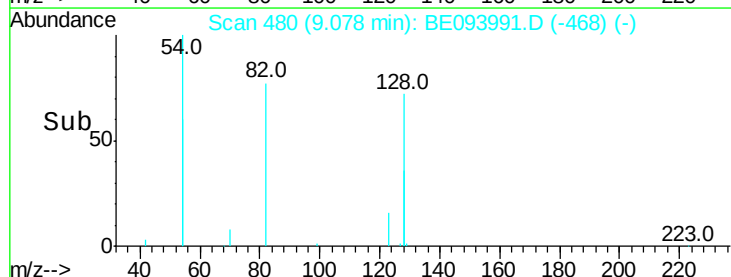
54 233.5 197.8 296.8



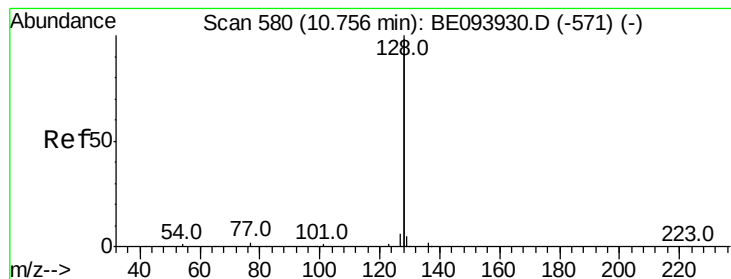
Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0



Time-->



#9

Naphthalene

Concen: 0.116 ng

RT: 10.76 min Scan# 580

Delta R.T. 0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

Instrument :

BNA_E

ClientSampleId :

PB102310BS

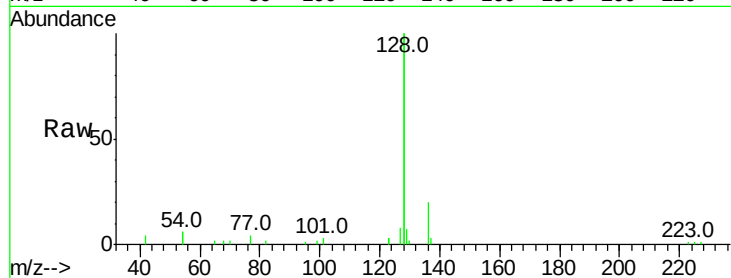
Tot Ion:128 Resp: 19967

Ion Ratio Lower Upper

128 100

129 3.3 2.5 3.7

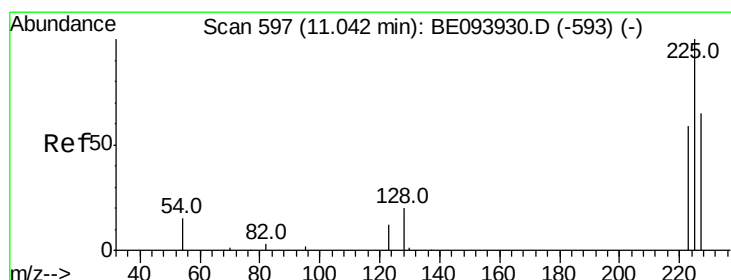
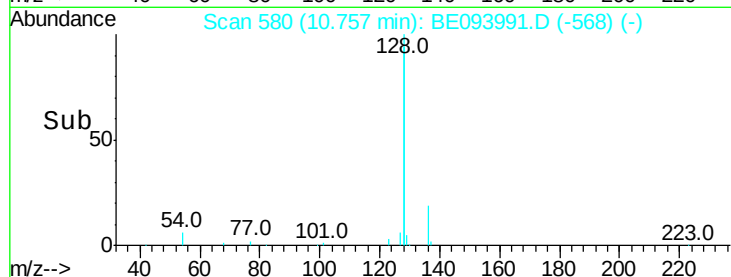
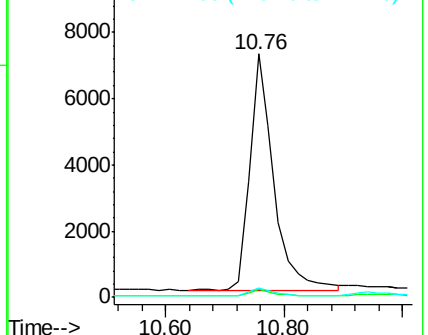
127 3.9 2.6 4.0



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



#10

Hexachlorobutadiene

Concen: 0.114 ng

RT: 11.03 min Scan# 596

Delta R.T. -0.02 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

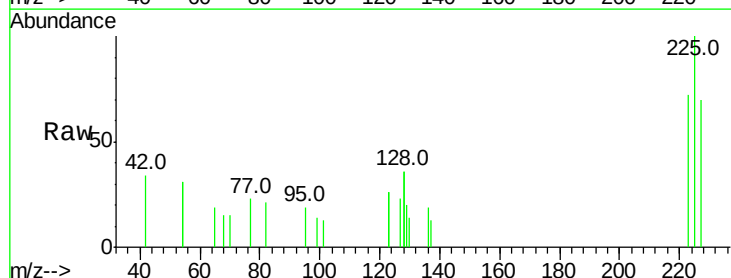
Tgt Ion:225 Resp: 712

Ion Ratio Lower Upper

225 100

223 66.4 49.4 74.0

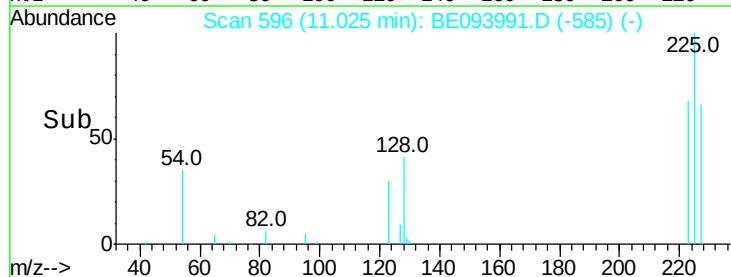
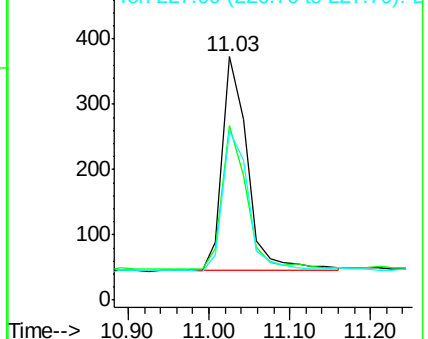
227 66.7 50.5 75.7

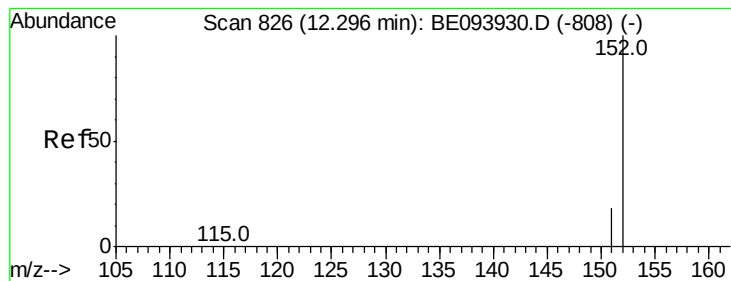


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.122 ng

RT: 12.31 min Scan# 829

Delta R.T. 0.01 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

Instrument :

BNA_E

ClientSampleId :

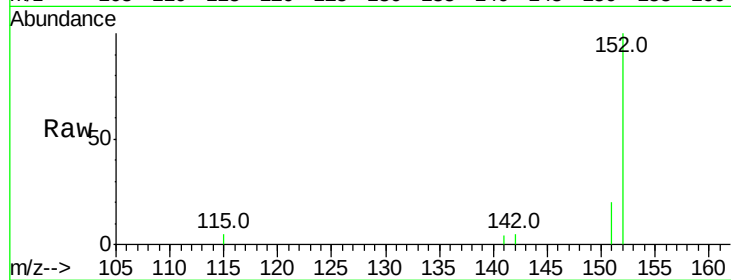
PB102310BS

Tot Ion:152 Resp: 2928

Ion Ratio Lower Upper

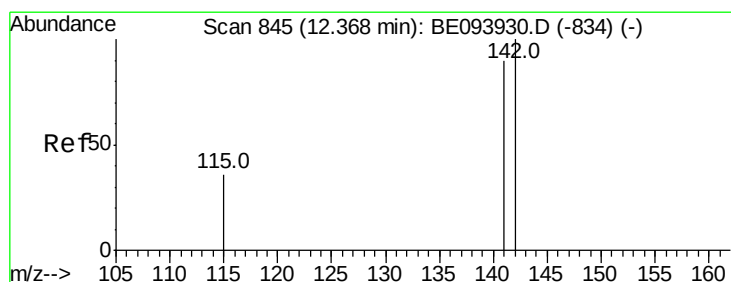
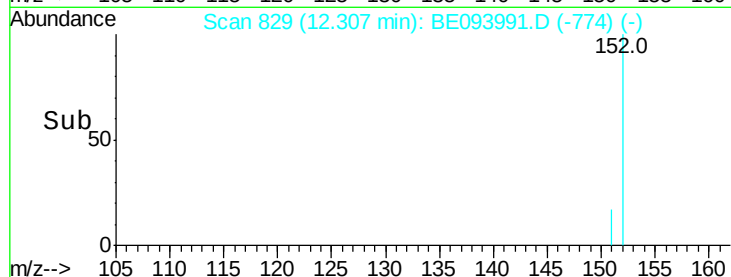
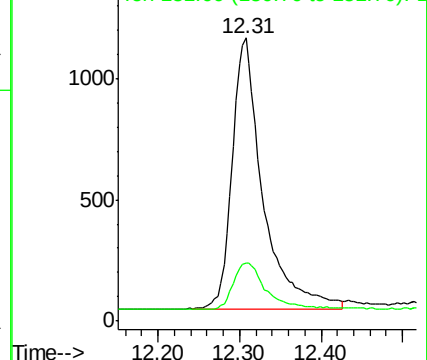
152 100

151 18.5 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.115 ng

RT: 12.38 min Scan# 848

Delta R.T. 0.01 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

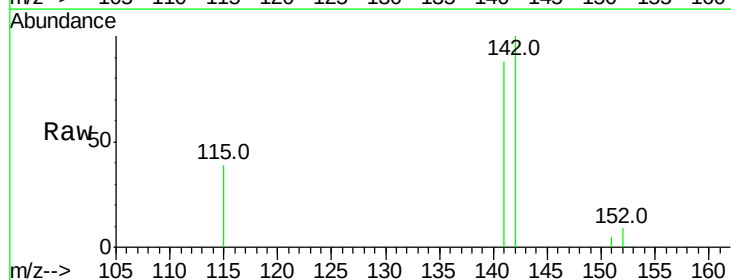
Tgt Ion:142 Resp: 3300

Ion Ratio Lower Upper

142 100

141 87.7 71.4 107.2

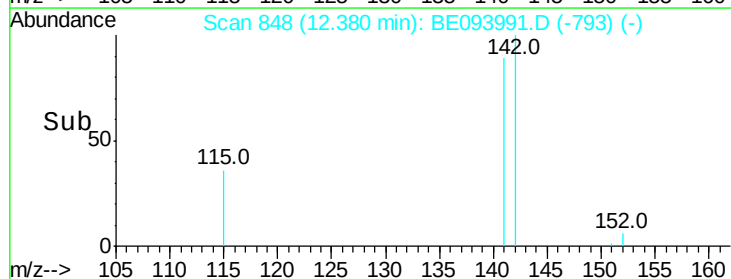
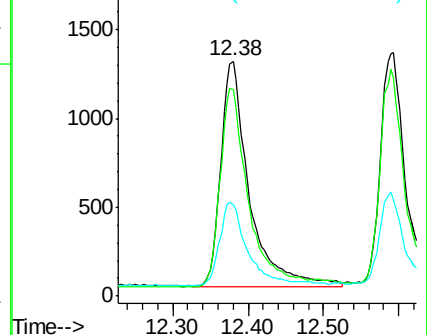
115 38.7 29.4 44.0

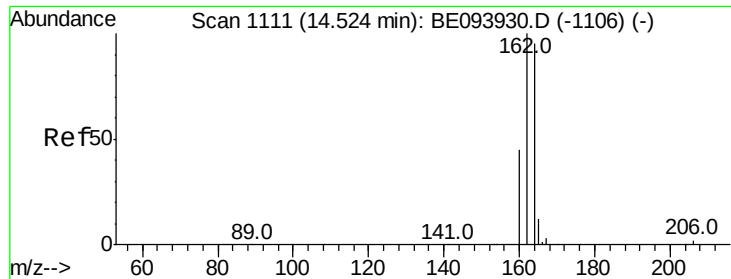


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

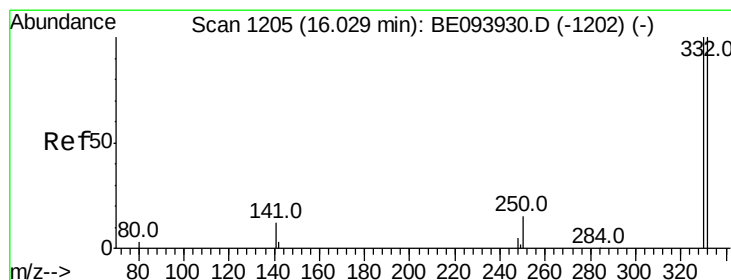
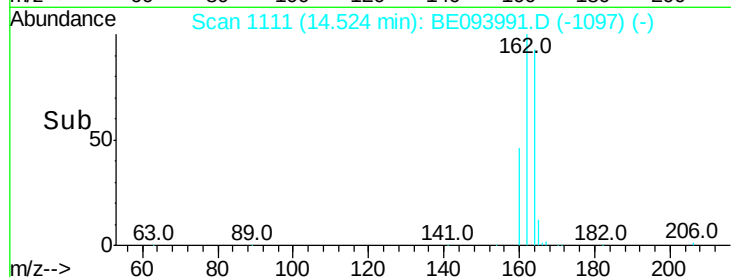
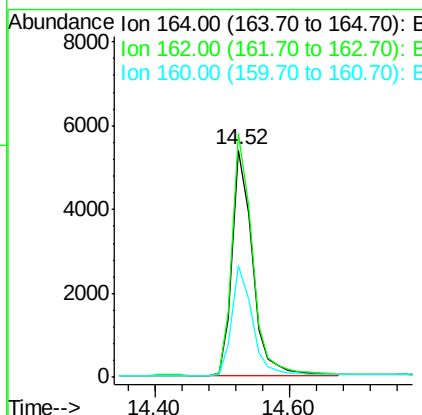
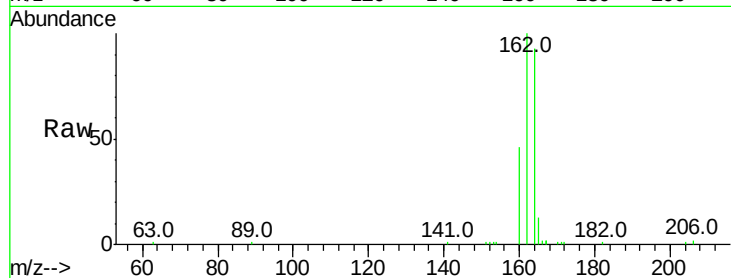




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.52 min Scan# 1111
 Delta R.T. 0.00 min
 Lab File: BE093991.D
 Acq: 13 Sep 2017 16:19

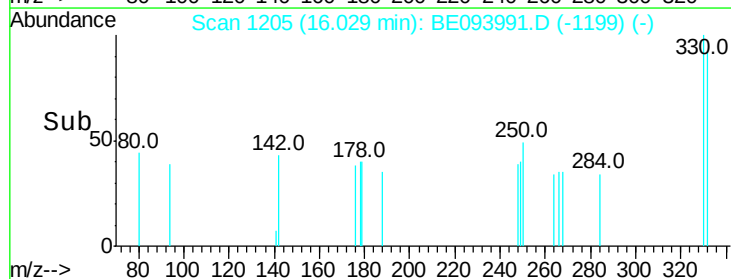
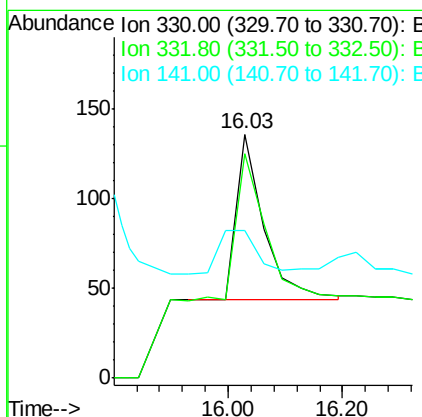
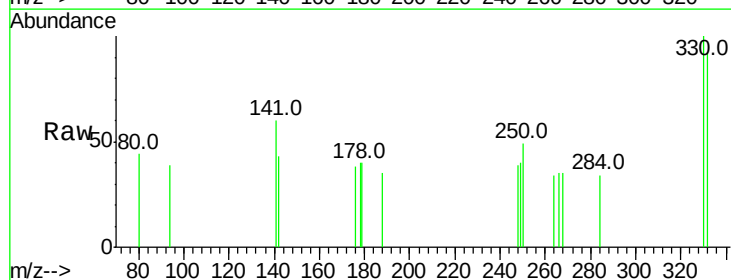
Instrument :
 BNA_E
 ClientSampleId :
 PB102310BS

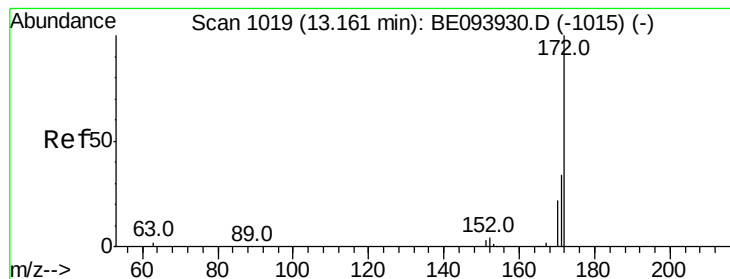
Tot Ion:164 Resp: 11301
 Ion Ratio Lower Upper
 164 100
 162 107.3 80.8 121.2
 160 49.5 37.0 55.4



#14
 2,4,6-Tribromophenol
 Concen: 0.086 ng
 RT: 16.03 min Scan# 1205
 Delta R.T. 0.00 min
 Lab File: BE093991.D
 Acq: 13 Sep 2017 16:19

Tgt Ion:330 Resp: 301
 Ion Ratio Lower Upper
 330 100
 332 100.0 76.9 115.3
 141 0.0 0.0 0.0





#15

2-Fluorobiphenyl

Concen: 0.086 ng

RT: 13.18 min Scan# 1020

Delta R.T. 0.02 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

Instrument :

BNA_E

ClientSampleId :

PB102310BS

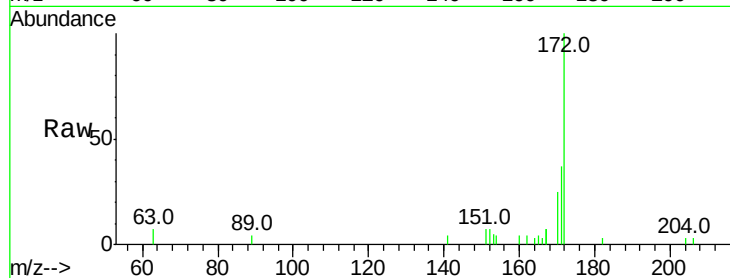
Tot Ion:172 Resp: 3846

Ion Ratio Lower Upper

172 100

171 37.4 26.9 40.3

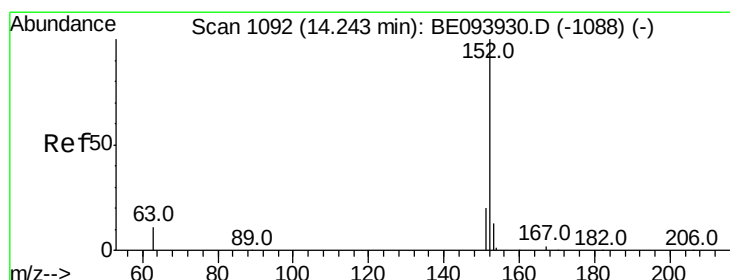
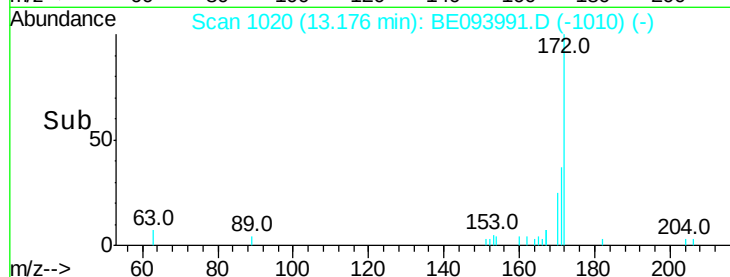
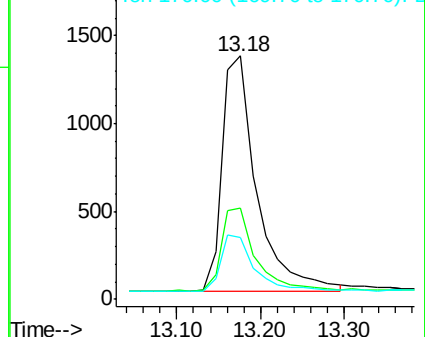
170 25.3 17.3 25.9



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16

Acenaphthylene

Concen: 0.081 ng

RT: 14.26 min Scan# 1093

Delta R.T. 0.02 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

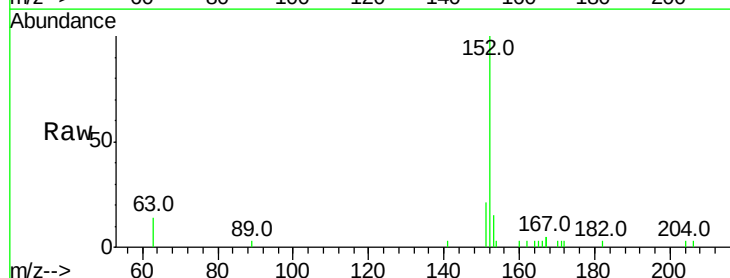
Tgt Ion:152 Resp: 4557

Ion Ratio Lower Upper

152 100

151 19.6 15.7 23.5

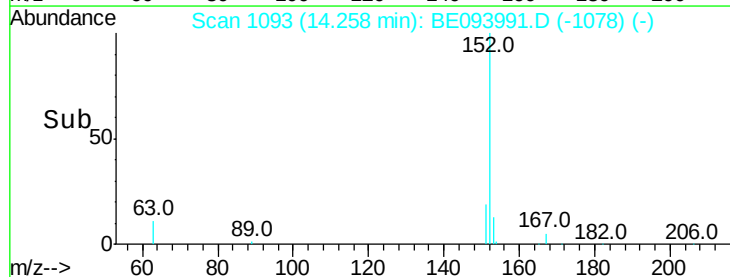
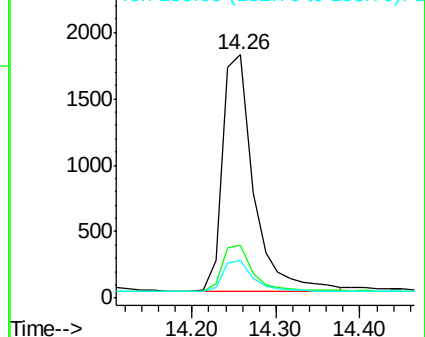
153 13.1 10.6 16.0

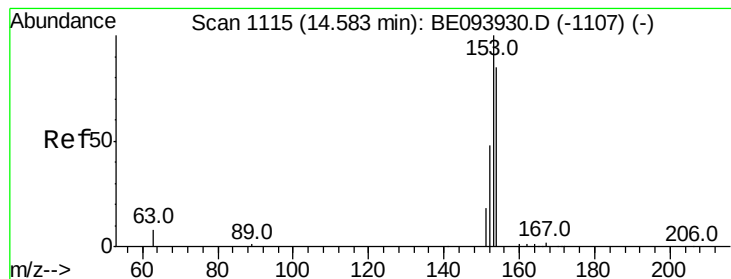


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.088 ng

RT: 14.58 min Scan# 1115

Delta R.T. 0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

Instrument :

BNA_E

ClientSampleId :

PB102310BS

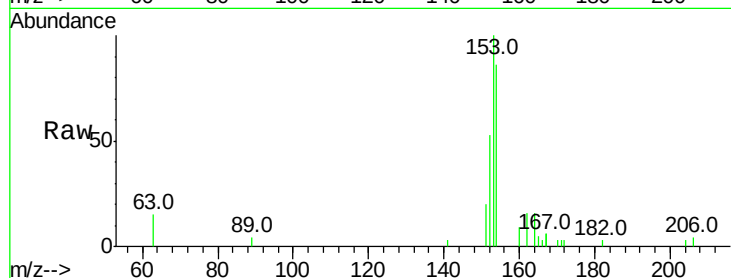
Tot Ion:154 Resp: 3369

Ion Ratio Lower Upper

154 100

153 111.1 91.8 137.6

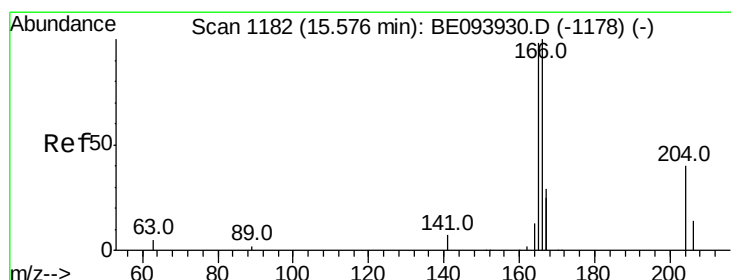
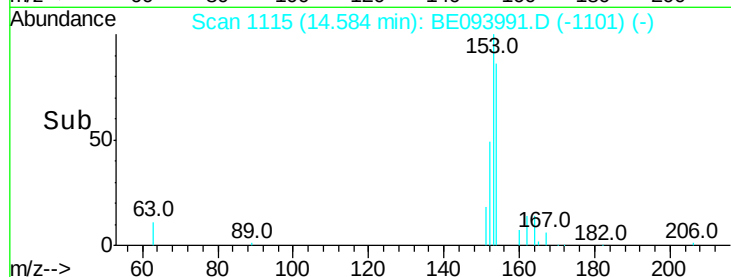
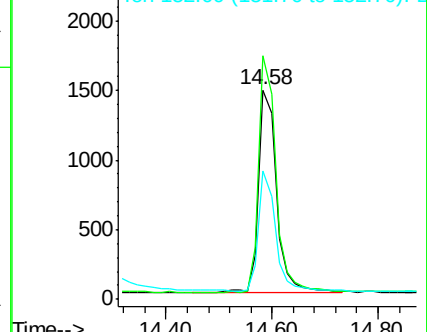
152 55.6 44.9 67.3



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



#18

Fluorene

Concen: 0.087 ng

RT: 15.58 min Scan# 1182

Delta R.T. 0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

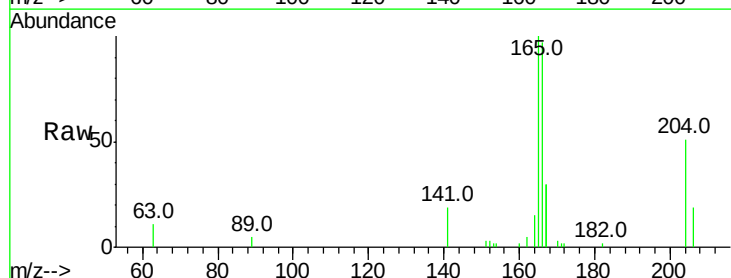
Tgt Ion:166 Resp: 4260

Ion Ratio Lower Upper

166 100

165 101.0 79.4 119.0

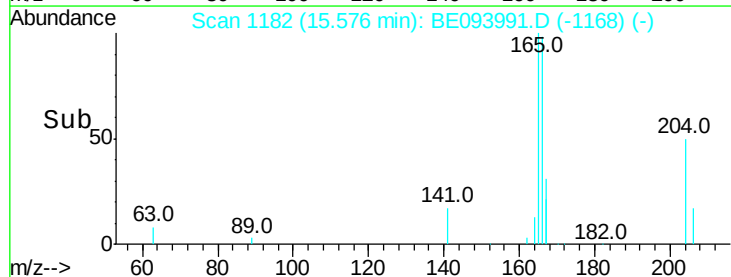
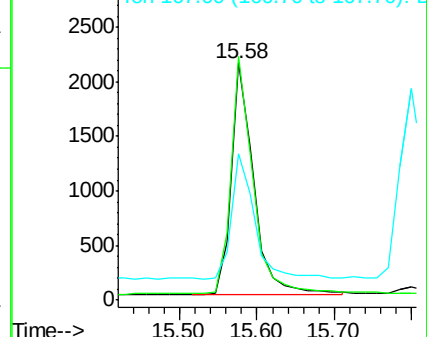
167 55.4 43.5 65.3

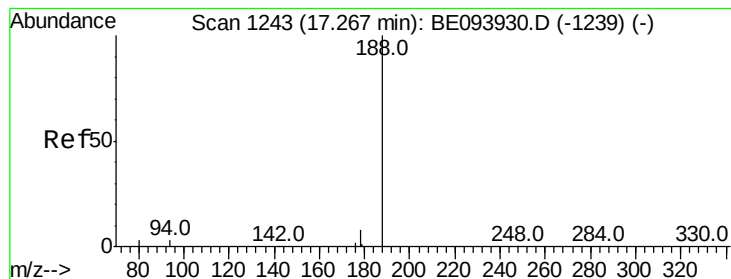


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.27 min Scan# 1243

Delta R.T. 0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

Instrument :

BNA_E

ClientSampleId :

PB102310BS

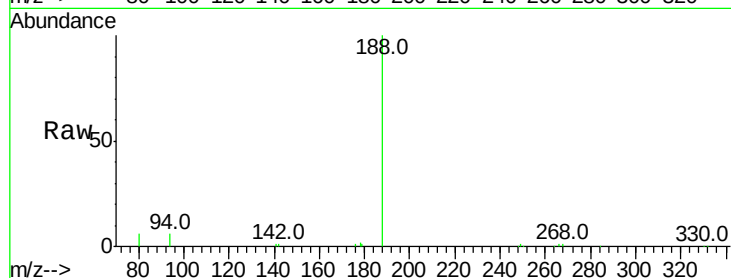
Tot Ion:188 Resp: 27917

Ion Ratio Lower Upper

188 100

94 5.6 16.1 24.1#

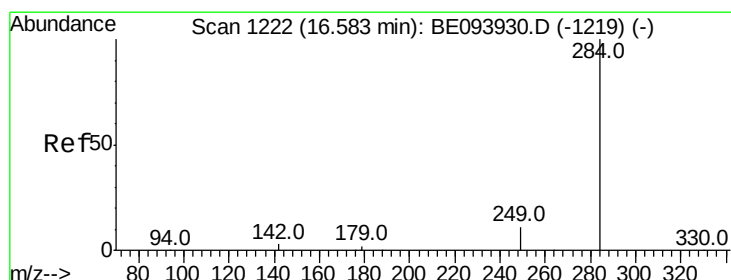
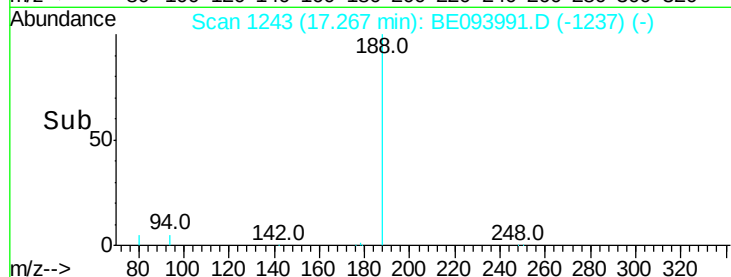
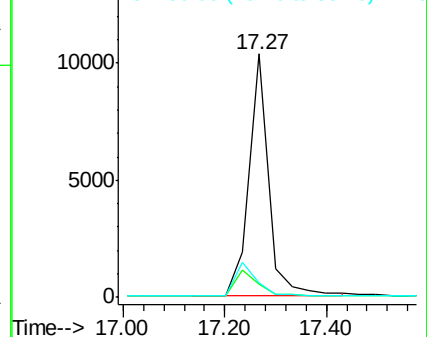
80 5.7 18.2 27.2#



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



#21

Hexachlorobenzene

Concen: 0.075 ng

RT: 16.58 min Scan# 1222

Delta R.T. 0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

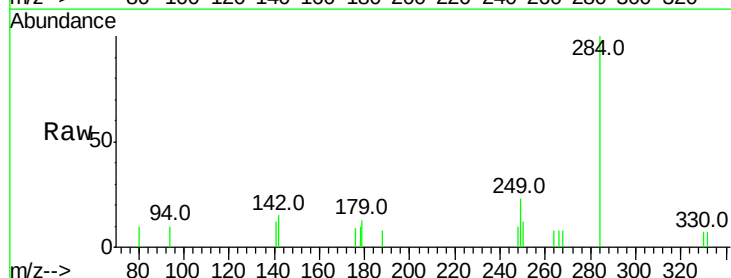
Tgt Ion:284 Resp: 1230

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

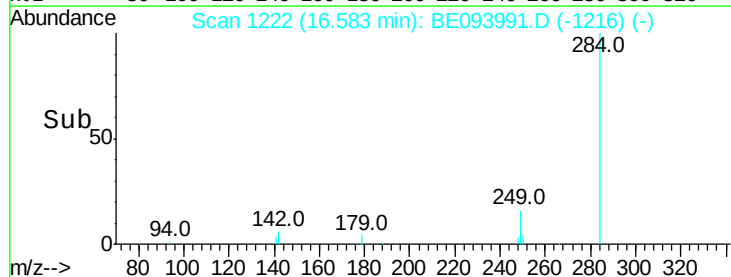
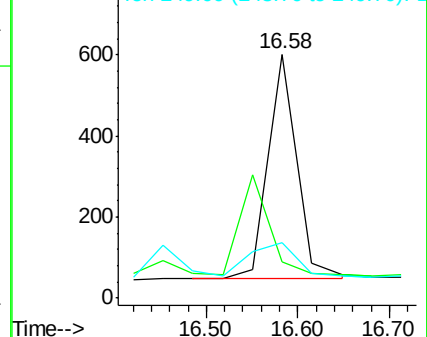
249 23.8 0.0 0.0#

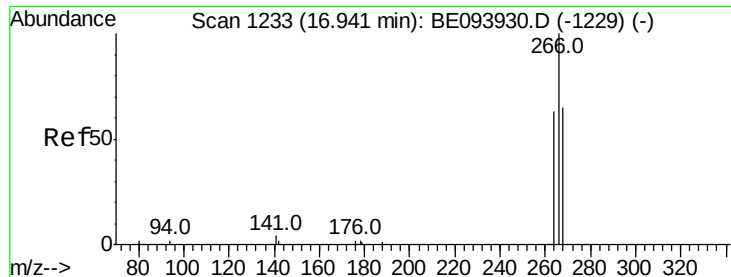


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#22

Pentachlorophenol

Concen: 0.116 ng

RT: 16.94 min Scan# 1233

Delta R.T. 0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

Instrument :

BNA_E

ClientSampleId :

PB102310BS

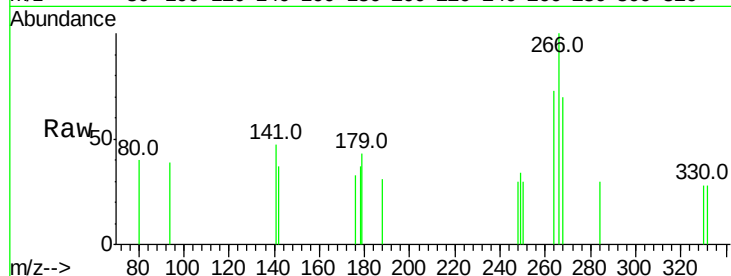
Tot Ion:266 Resp: 514

Ion Ratio Lower Upper

266 100

264 72.8 53.5 80.3

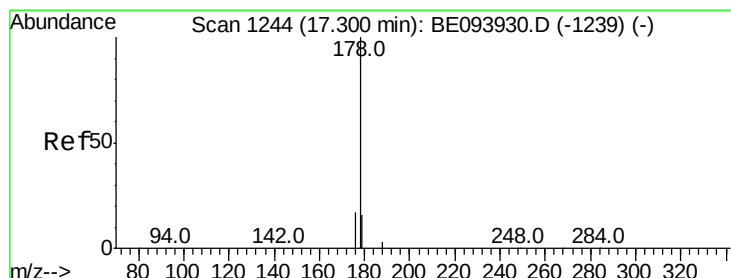
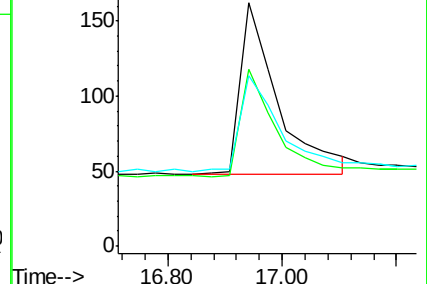
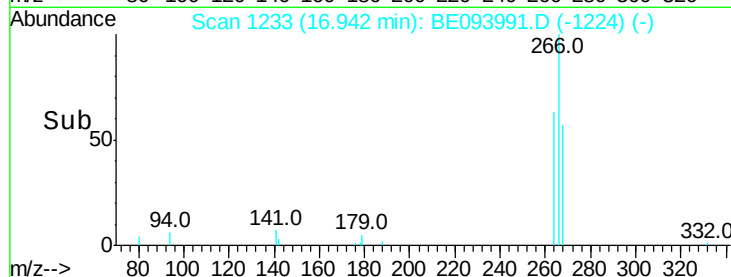
268 70.4 60.0 90.0



Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E



#23

Phenanthrene

Concen: Below Cal

RT: 17.30 min Scan# 1244

Delta R.T. 0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

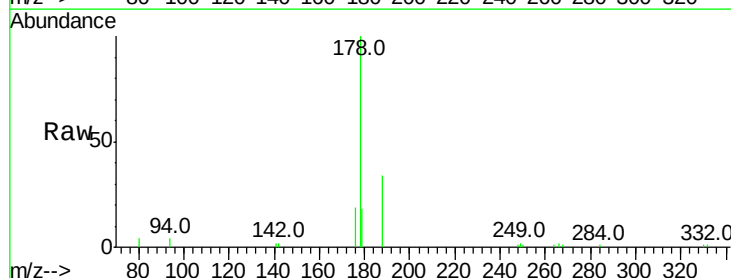
Tgt Ion:178 Resp: 8609

Ion Ratio Lower Upper

178 100

176 18.5 0.0 0.0#

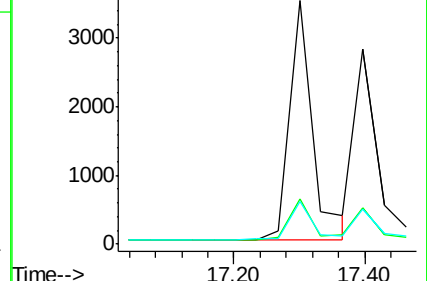
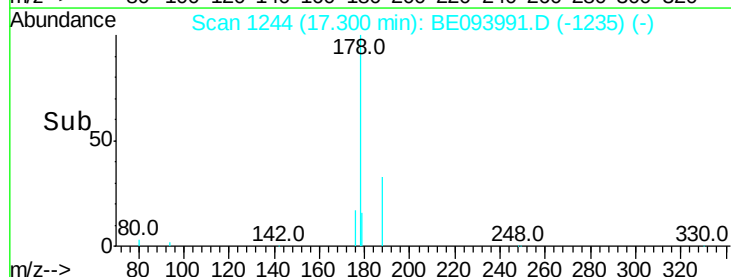
179 16.2 12.6 18.8

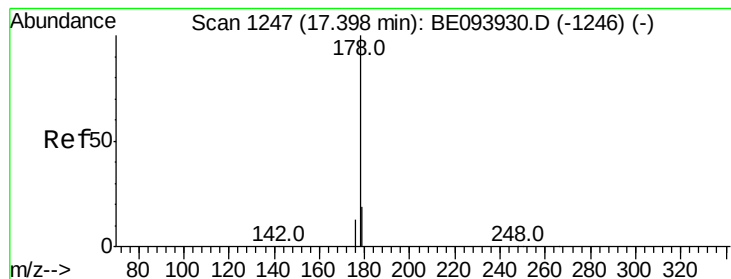


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.080 ng

RT: 17.40 min Scan# 1247

Delta R.T. 0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

Instrument :

BNA_E

ClientSampleId :

PB102310BS

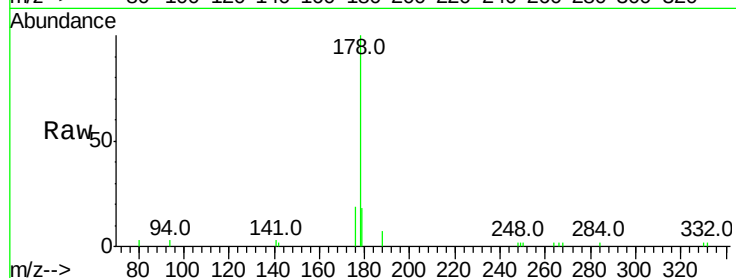
Tot Ion:178 Resp: 6776

Ion Ratio Lower Upper

178 100

176 17.1 16.0 24.0

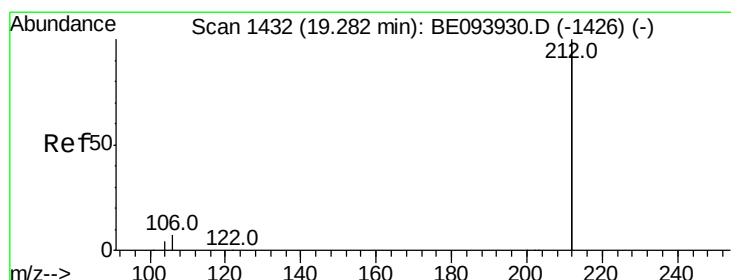
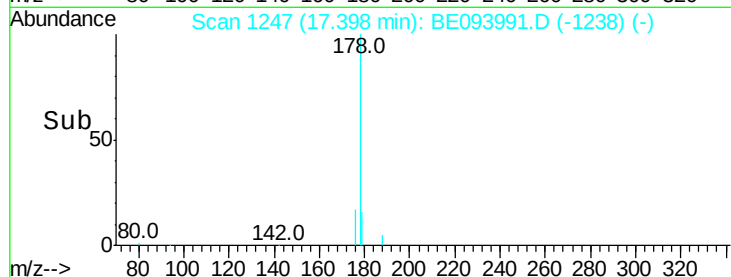
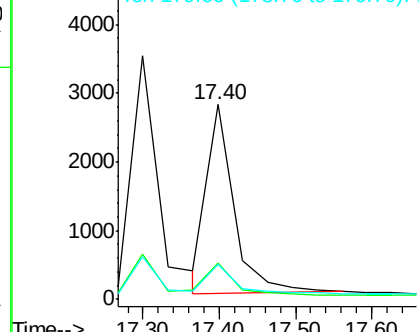
179 16.6 0.0 0.0#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#25

Fluoranthene-d10

Concen: 0.079 ng

RT: 19.29 min Scan# 1433

Delta R.T. 0.01 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

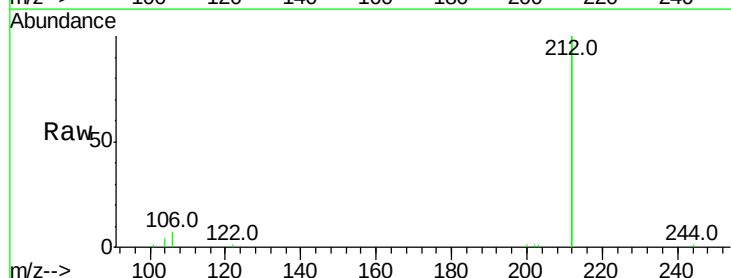
Tgt Ion:212 Resp: 32693

Ion Ratio Lower Upper

212 100

106 3.5 2.7 4.1

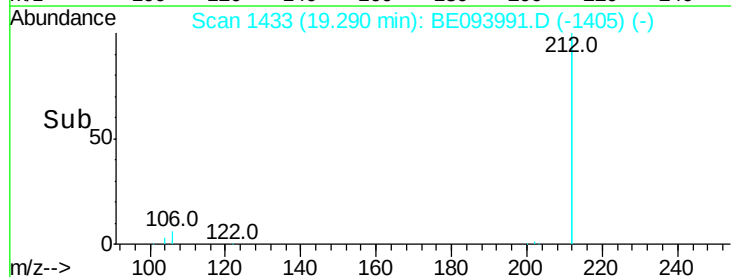
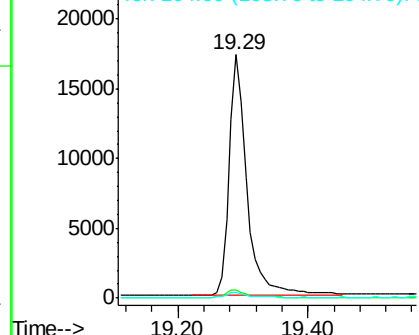
104 1.9 1.6 2.4

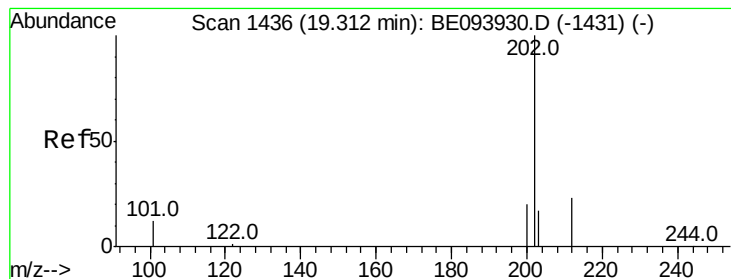


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#26

Fluoranthene

Concen: 0.073 ng

RT: 19.32 min Scan# 1437

Delta R.T. 0.01 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

Instrument :

BNA_E

ClientSampleId :

PB102310BS

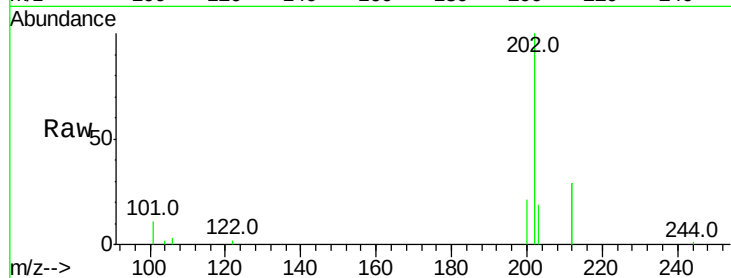
Tot Ion:202 Resp: 9065

Ion Ratio Lower Upper

202 100

101 11.6 9.7 14.5

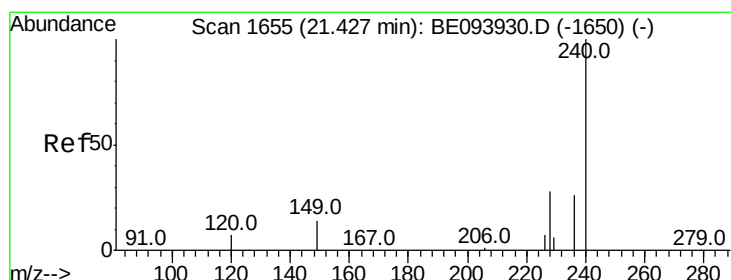
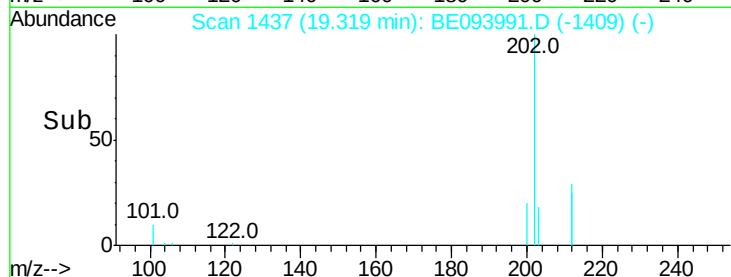
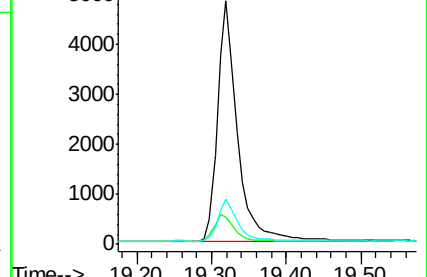
203 17.1 13.7 20.5



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



#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.43 min Scan# 1655

Delta R.T. -0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

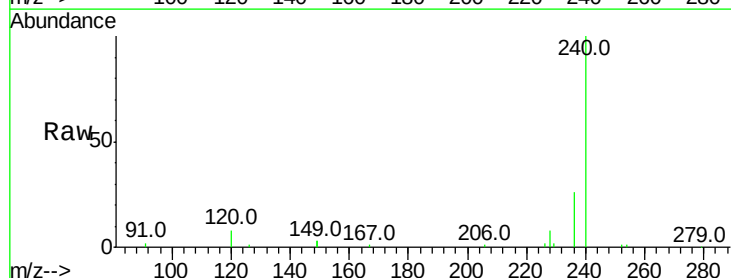
Tgt Ion:240 Resp: 33336

Ion Ratio Lower Upper

240 100

120 8.0 8.7 13.1#

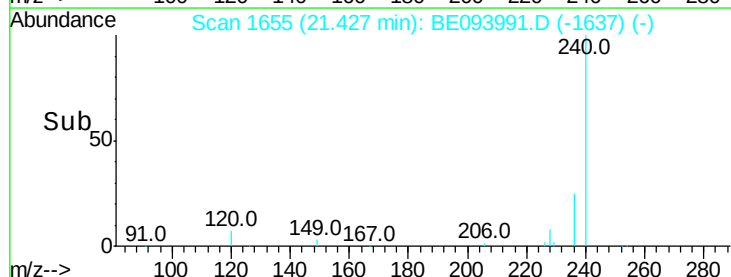
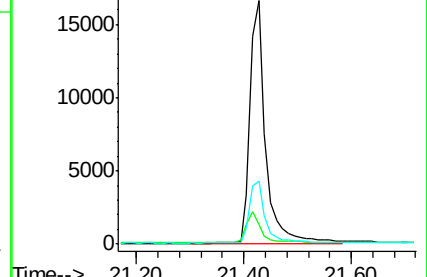
236 25.8 21.3 31.9

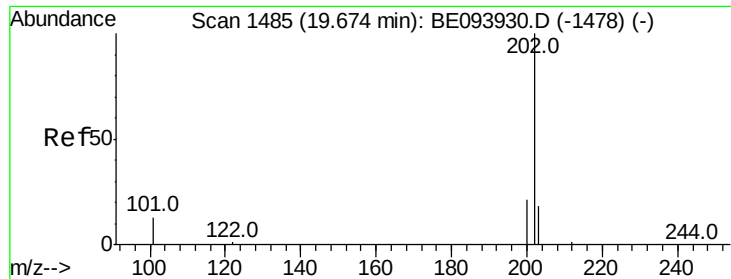


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#28

Pvrene

Concen: 0.081 ng

RT: 19.67 min Scan# 1485

Delta R.T. -0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

Instrument :

BNA_E

ClientSampleId :

PB102310BS

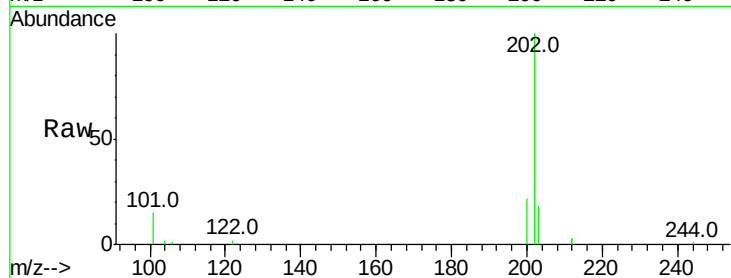
Tot Ion:202 Resp: 9300

Ion Ratio Lower Upper

202 100

200 21.2 16.6 24.8

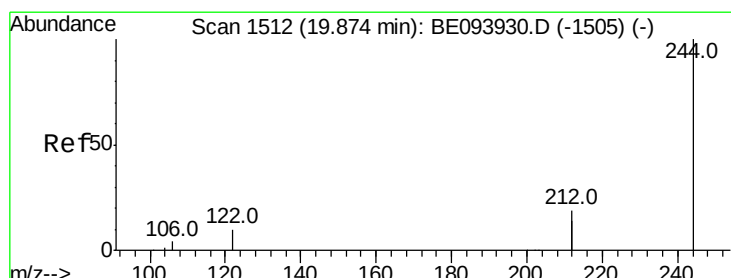
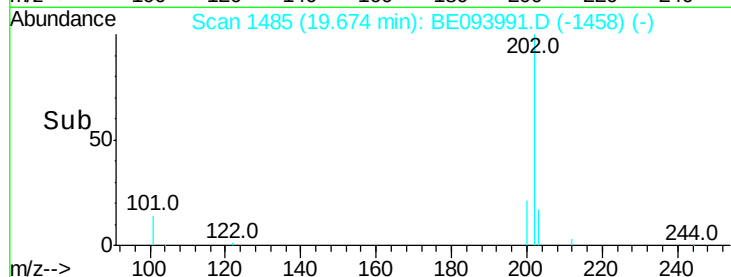
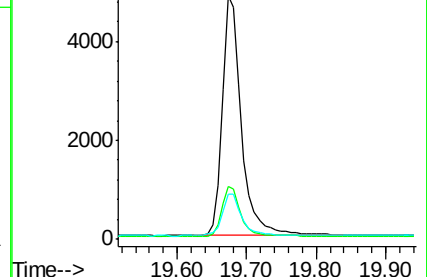
203 18.2 14.2 21.4



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



#29

Terphenyl-d14

Concen: 0.100 ng

RT: 19.87 min Scan# 1512

Delta R.T. -0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

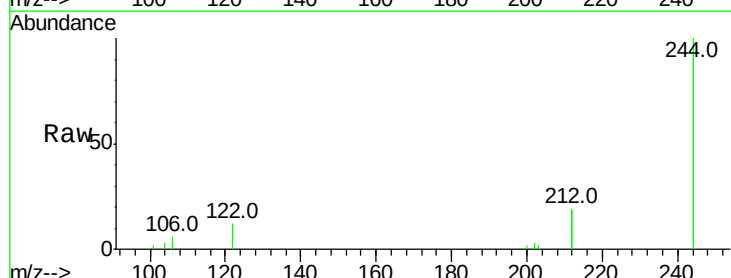
Tgt Ion:244 Resp: 6135

Ion Ratio Lower Upper

244 100

212 37.2 28.3 42.5

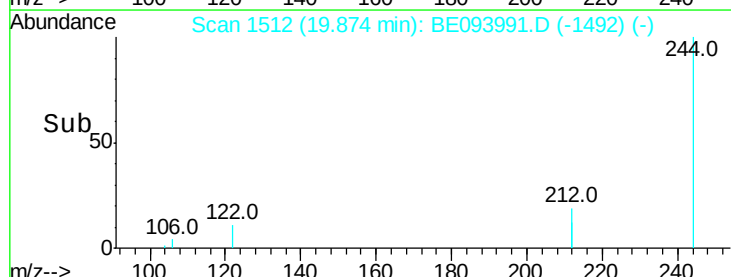
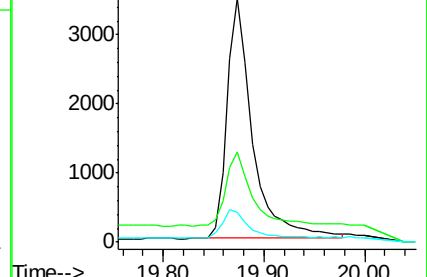
122 12.4 9.4 14.0

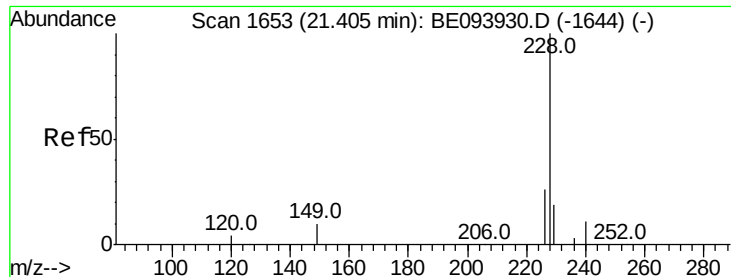


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 0.083 ng

RT: 21.40 min Scan# 1653

Delta R.T. -0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

Instrument :

BNA_E

ClientSampleId :

PB102310BS

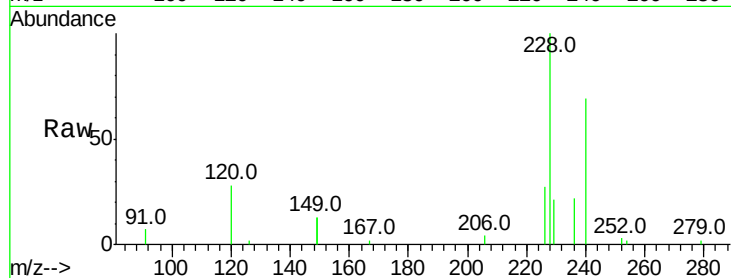
Tot Ion:228 Resp: 8449

Ion Ratio Lower Upper

228 100

226 26.8 20.8 31.2

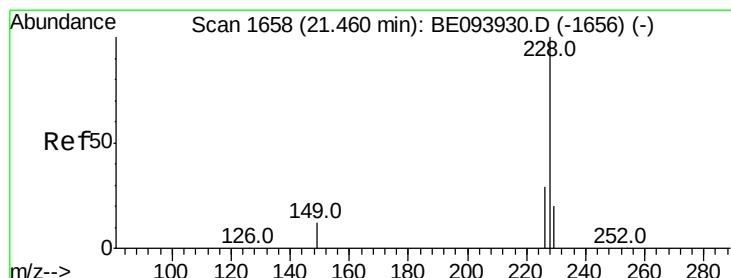
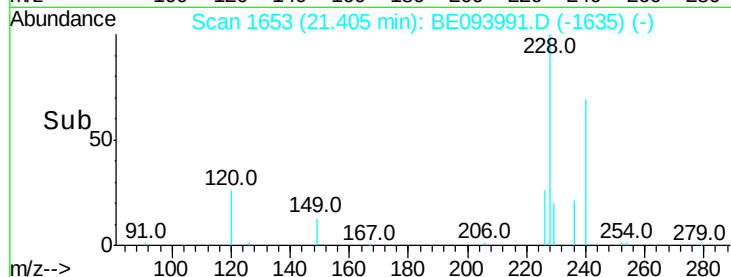
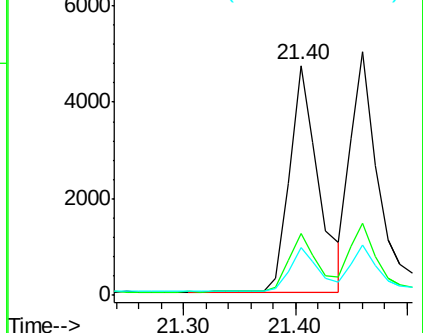
229 20.9 16.6 25.0



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

Chrysene

Concen: 0.082 ng

RT: 21.46 min Scan# 1658

Delta R.T. -0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

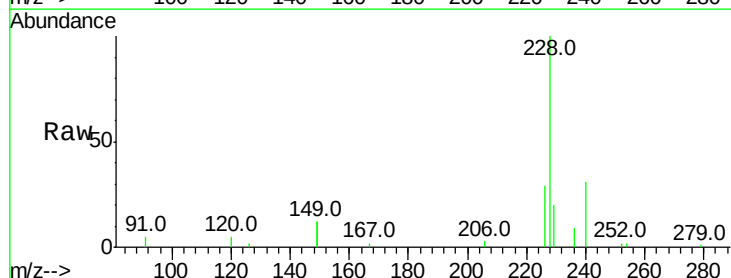
Tgt Ion:228 Resp: 8919

Ion Ratio Lower Upper

228 100

226 29.5 24.6 37.0

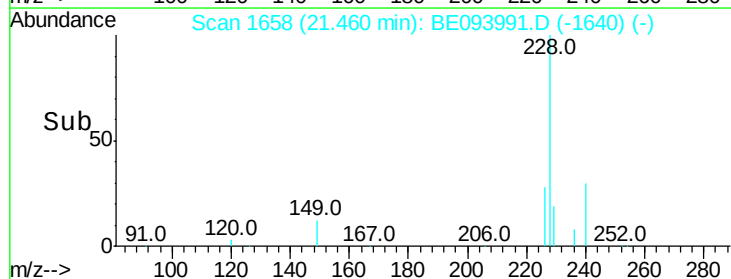
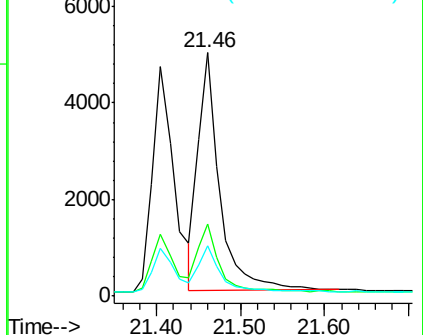
229 20.4 15.8 23.8

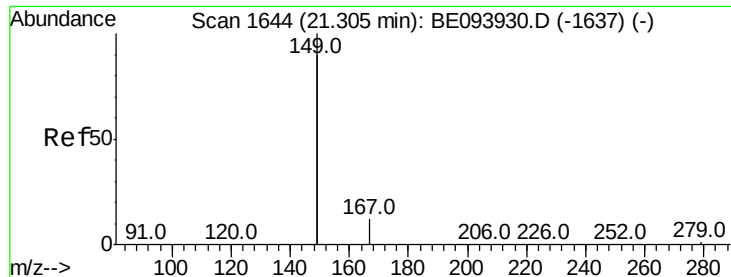


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.069 ng

RT: 21.30 min Scan# 1644

Delta R.T. -0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

Instrument :

BNA_E

ClientSampleId :

PB102310BS

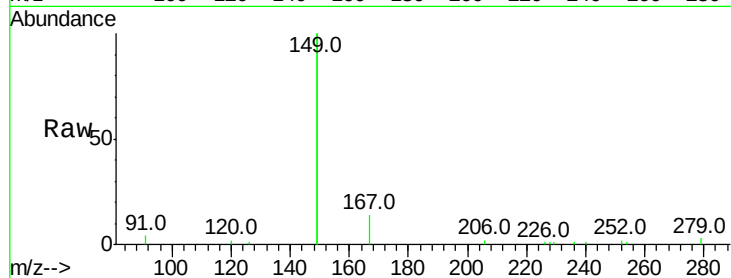
Tot Ion:149 Resp: 17274

Ion Ratio Lower Upper

149 100

167 6.9 5.4 8.0

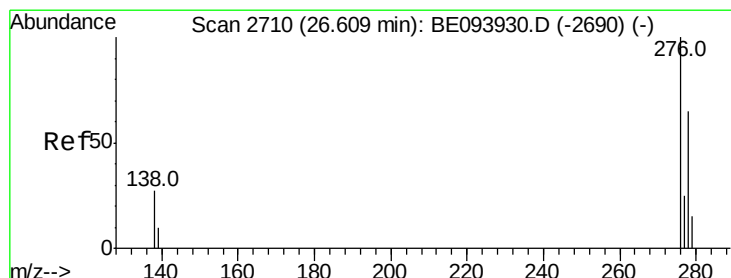
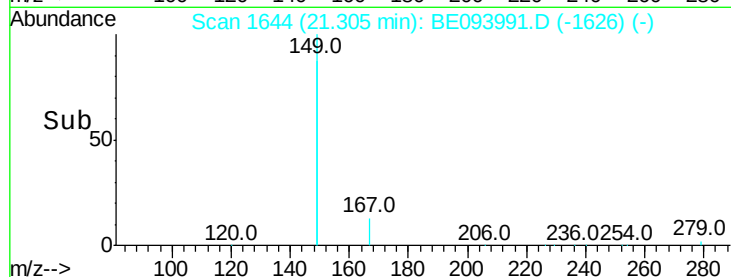
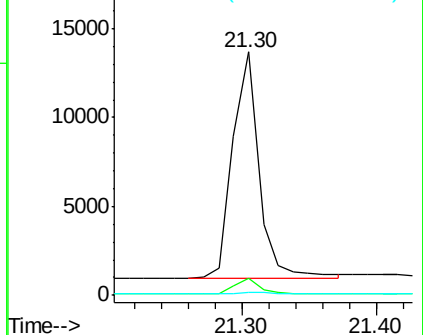
279 1.0 0.7 1.1



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.063 ng

RT: 26.62 min Scan# 2712

Delta R.T. 0.01 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

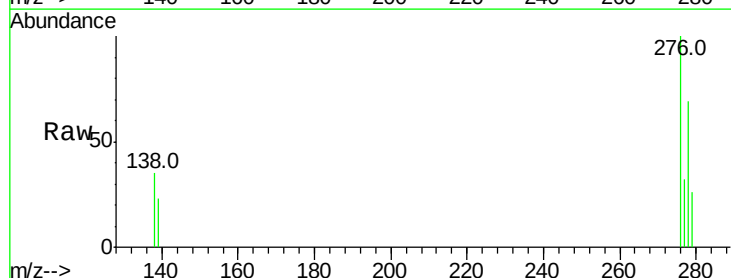
Tgt Ion:276 Resp: 4528

Ion Ratio Lower Upper

276 100

138 26.6 22.2 33.2

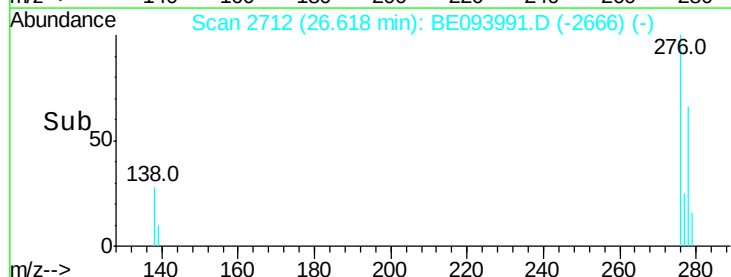
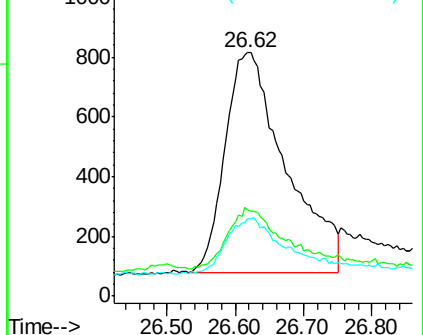
277 23.7 19.5 29.3

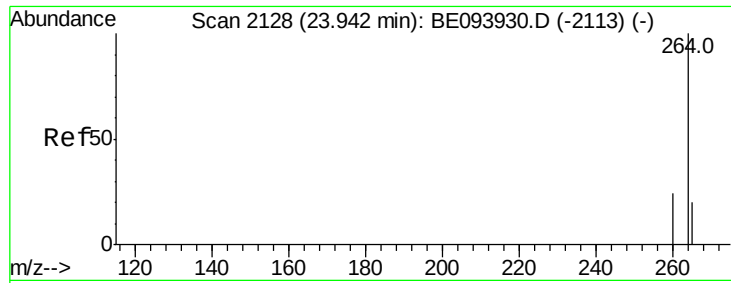


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

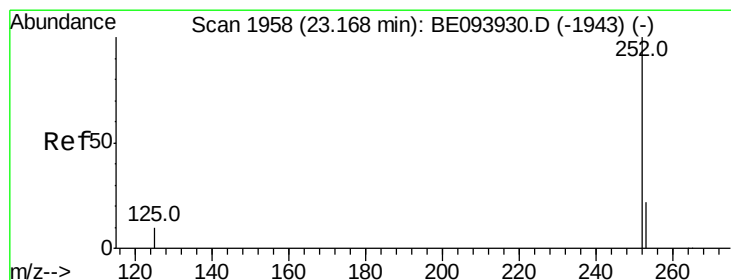
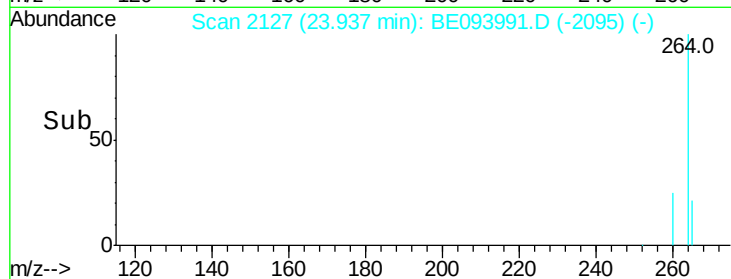
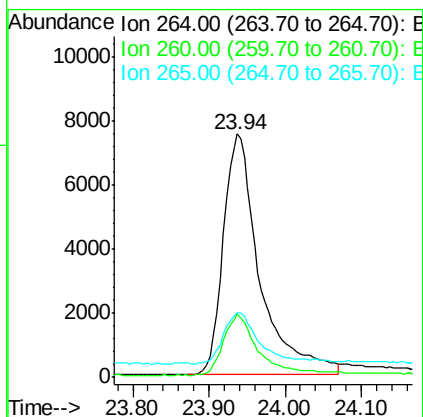
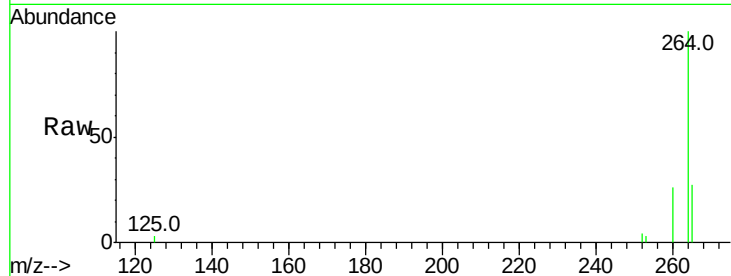




#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.94 min Scan# 2127
 Delta R.T. -0.00 min
 Lab File: BE093991.D
 Acq: 13 Sep 2017 16:19

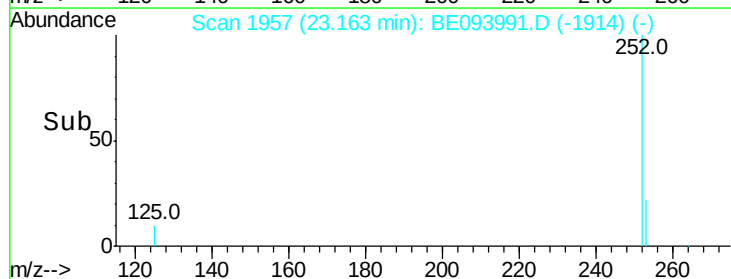
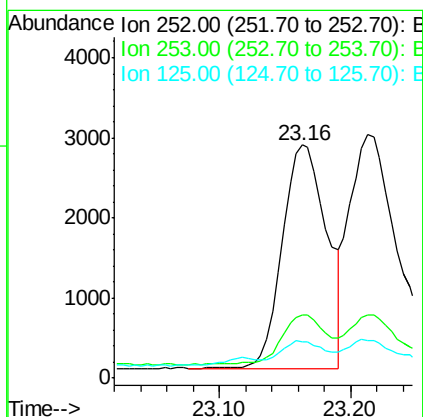
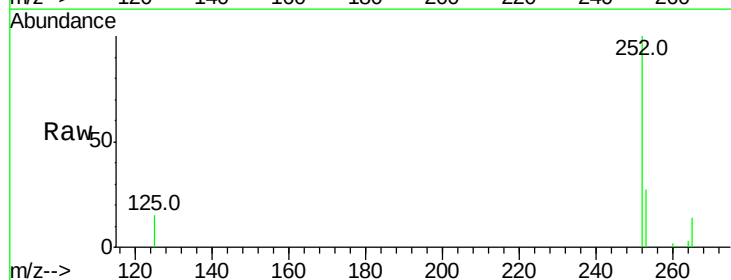
Instrument :
 BNA_E
 ClientSampleId :
 PB102310BS

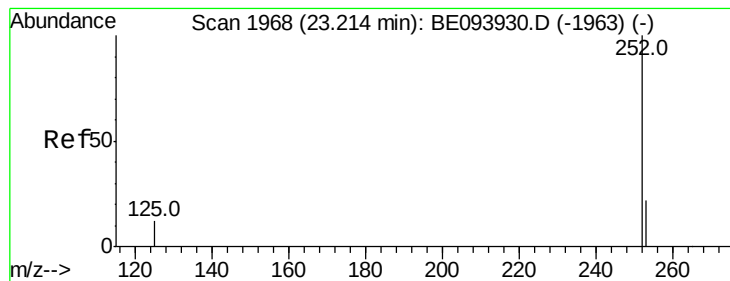
Tot Ion:264 Resp: 25061
 Ion Ratio Lower Upper
 264 100
 260 25.8 20.0 30.0
 265 26.6 24.0 36.0



#35
 Benzo(b)fluoranthene
 Concen: 0.083 ng
 RT: 23.16 min Scan# 1957
 Delta R.T. -0.00 min
 Lab File: BE093991.D
 Acq: 13 Sep 2017 16:19

Tgt Ion:252 Resp: 6630
 Ion Ratio Lower Upper
 252 100
 253 27.1 19.4 29.0
 125 15.5 10.0 15.0#





#36

Benzo(k)fluoranthene

Concen: 0.087 ng

RT: 23.21 min Scan# 1968

Delta R.T. -0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

Instrument :

BNA_E

ClientSampleId :

PB102310BS

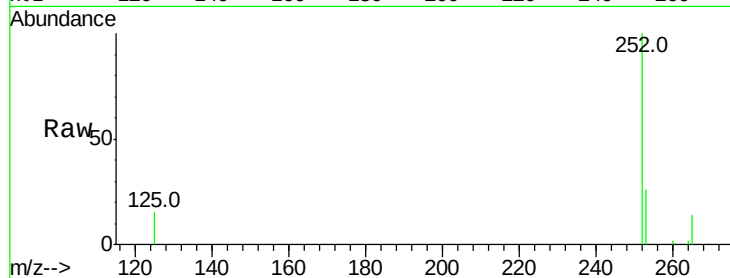
Tot Ion:252 Resp: 8536

Ion Ratio Lower Upper

252 100

253 25.8 18.1 27.1

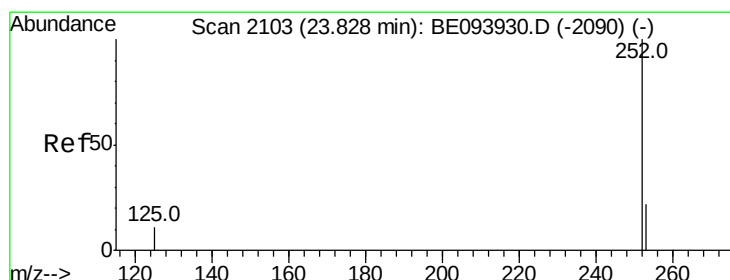
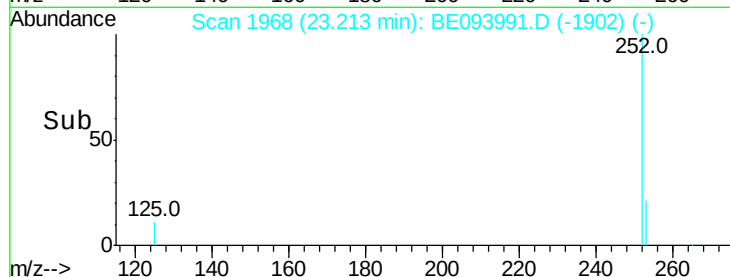
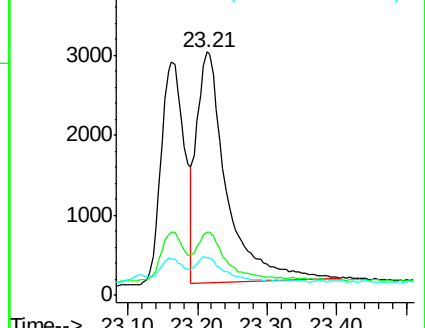
125 15.5 9.8 14.6#



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



#37

Benzo(a)pyrene

Concen: 0.085 ng

RT: 23.83 min Scan# 2103

Delta R.T. -0.00 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

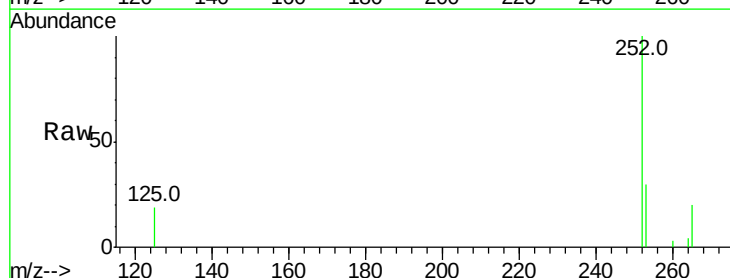
Tgt Ion:252 Resp: 6941

Ion Ratio Lower Upper

252 100

253 29.5 19.6 29.4#

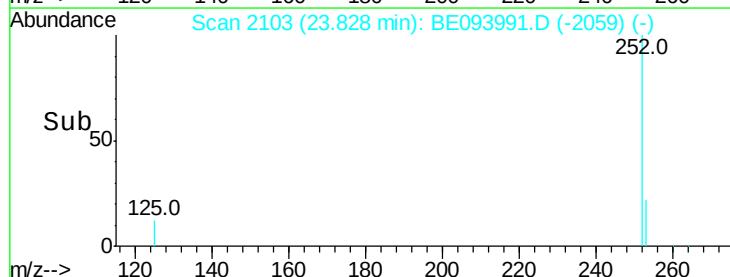
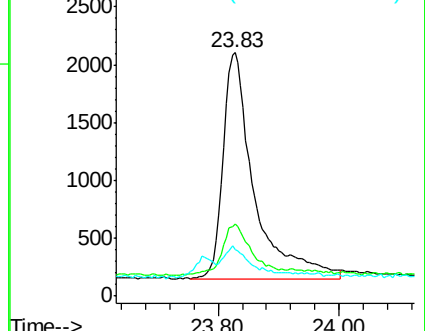
125 19.3 11.8 17.8#

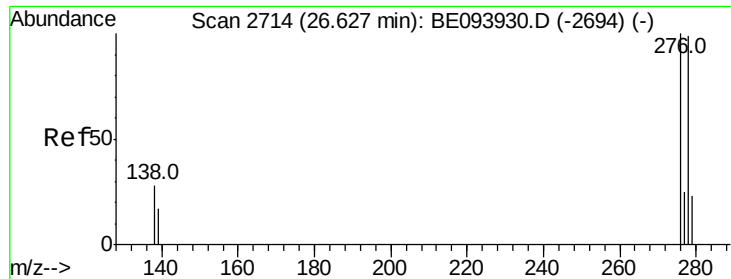


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Dibenzo(a,h)anthracene

Concen: 0.069 ng

RT: 26.64 min Scan# 2716

Delta R.T. 0.01 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

Instrument :

BNA_E

ClientSampleId :

PB102310BS

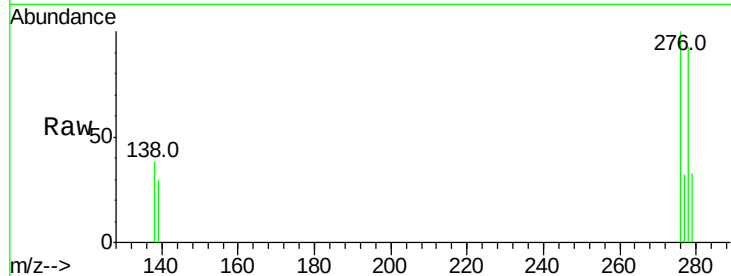
Tot Ion:278 Resp: 3736

Ion Ratio Lower Upper

278 100

139 31.9 16.7 25.1#

279 35.8 21.6 32.4#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

26.64

600

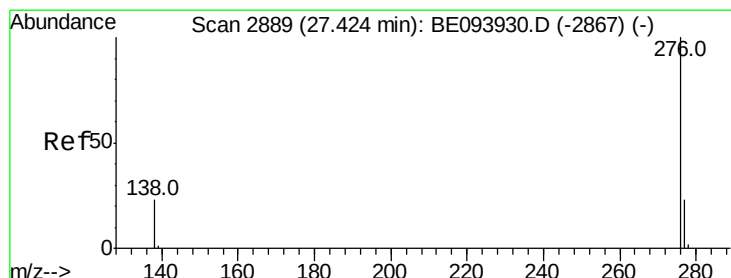
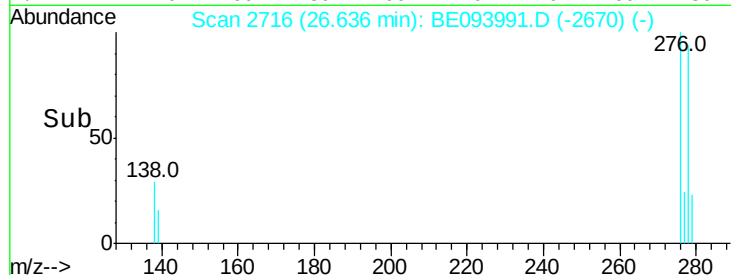
400

200

0

26.60 26.80

Time-->



#39

Benzo(g,h,i)perylene

Concen: 0.076 ng

RT: 27.43 min Scan# 2891

Delta R.T. 0.01 min

Lab File: BE093991.D

Acq: 13 Sep 2017 16:19

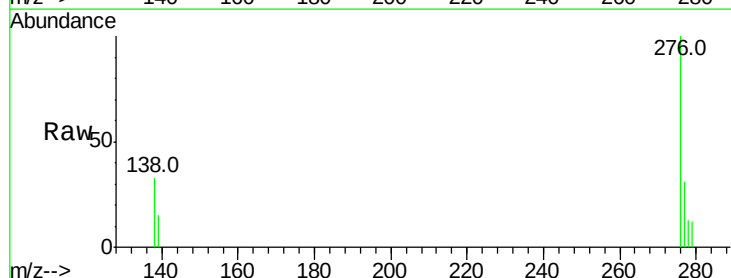
Tgt Ion:276 Resp: 4324

Ion Ratio Lower Upper

276 100

277 31.0 20.6 30.8#

138 32.6 21.9 32.9



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

27.43

1000

800

600

400

200

0

27.40 27.60

Time-->

