

Data Path : Z:\HPCHEM1\BNA E\DATA\BE030618\
 Data File : BE095703.D
 Acq On : 6 Mar 2018 18:35
 Operator : SJ/JU
 Sample : J1811-01 20X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 07 01:10:56 2018
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE022318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 23 12:12:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	1351	0.40	ng	0.00
7) Naphthalene-d8	11.27	136	5489	0.40	ng	0.00
13) Acenaphthene-d10	15.00	164	3071	0.40	ng	0.00
19) Phenanthrene-d10	17.71	188	7040	0.40	ng	0.00
27) Chrysene-d12	21.80	240	7440	0.40	ng	0.00
34) Perylene-d12	24.42	264	6993	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.92	112	32	0.01	ng	0.00
5) Phenol-d6	7.56	99	36	0.01	ng	0.00
8) Nitrobenzene-d5	9.61	82	62	0.01	ng	0.00
11) 2-Methylnaphthalene-d10	12.81	152	101	0.01	ng	0.00
14) 2,4,6-Tribromophenol	16.47	330	9	0.12	ng	0.00
15) 2-Fluorobiphenyl	13.64	172	144	0.01	ng	0.00
25) Fluoranthene-d10	19.69	212	698	0.01	ng	0.00
29) Terphenyl-d14	20.24	244	138	0.01	ng	-0.01

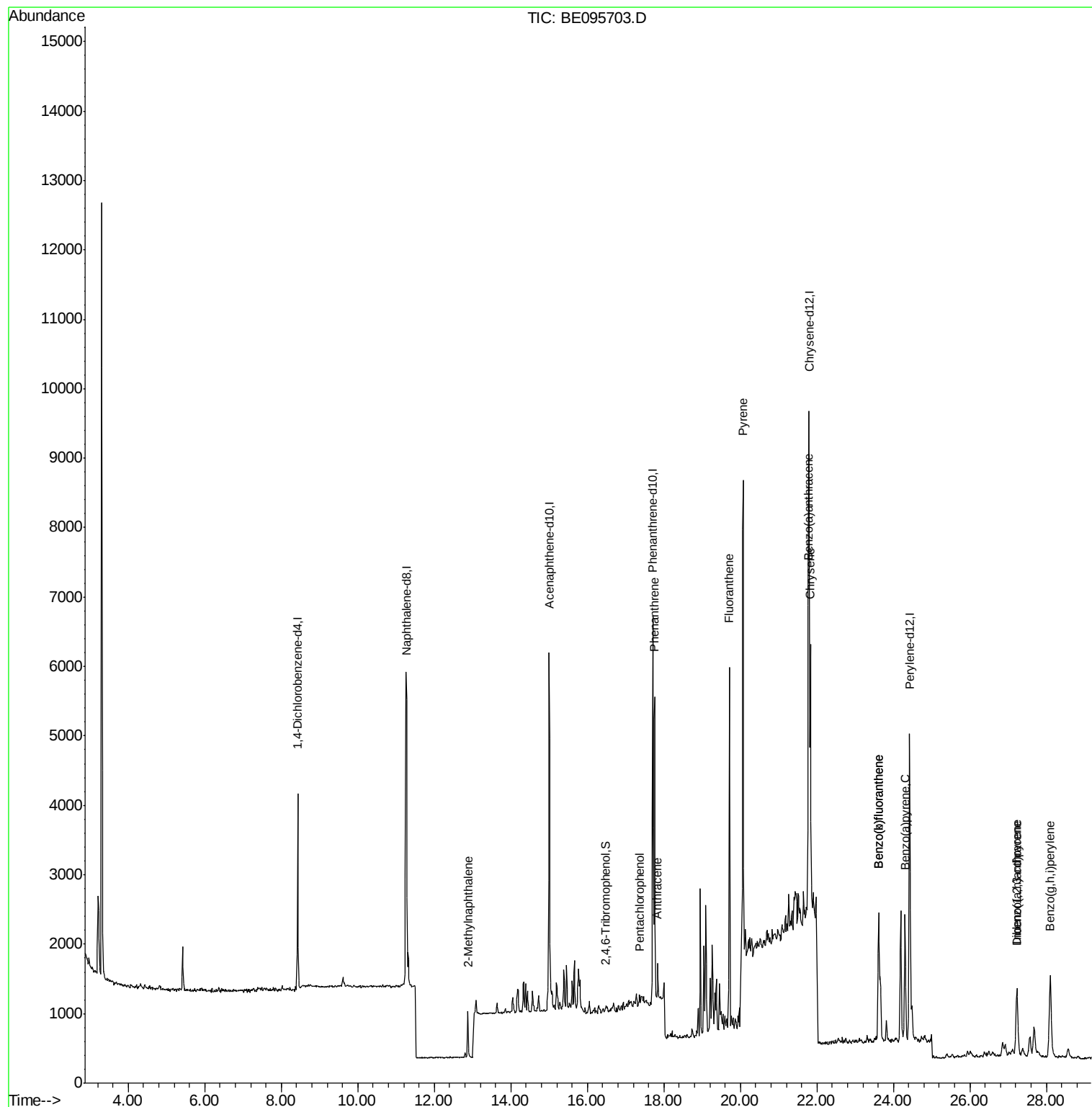
Target Compounds				Qvalue		
12) 2-Methylnaphthalene	12.88	142	486	0.045	ng	# 89
22) Pentachlorophenol	17.37	266	9	0.184	ng	93
23) Phenanthrene	17.75	178	5126	0.233	ng	99
24) Anthracene	17.84	178	596	0.029	ng	# 91
26) Fluoranthene	19.72	202	4784	0.177	ng	96
28) Pyrene	20.07	202	10356	0.340	ng	98
30) Benzo(a)anthracene	21.78	228	3513	0.145	ng	# 96
31) Chrysene	21.84	228	3942	0.163	ng	# 94
33) Indeno(1,2,3-cd)pyrene	27.23	276	1855	0.079	ng	# 91
35) Benzo(b)fluoranthene	23.61	252	3695	0.148	ng	# 91
36) Benzo(k)fluoranthene	23.61	252	3695	0.149	ng	# 81
37) Benzo(a)pyrene	24.31	252	2937	0.131	ng	# 86
38) Dibenzo(a,h)anthracene	27.24	278	734	0.037	ng	# 52
39) Benzo(g,h,i)perylene	28.10	276	3058	0.143	ng	# 93

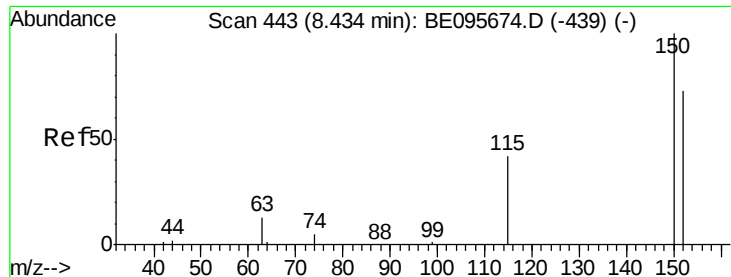
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 8.43 min Scan# 569

Delta R.T. -0.01 min

Lab File: BE095703.D

Acq: 6 Mar 2018 18:35

Instrument :

BNA_E

ClientSampleId :

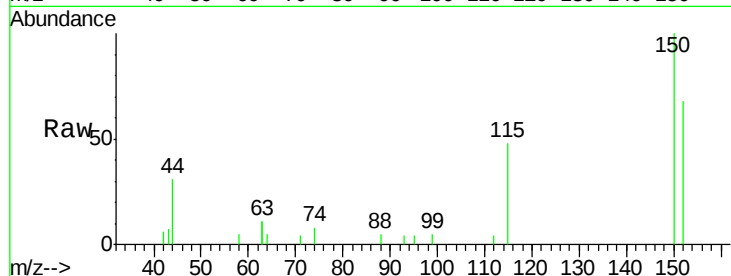
Tot Ion:152 Resp: 1351

Ion Ratio Lower Upper

152 100

150 147.8 117.2 175.8

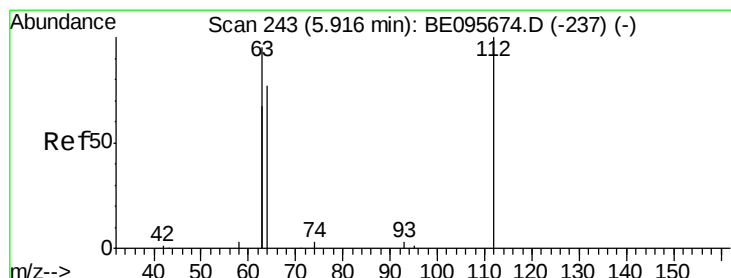
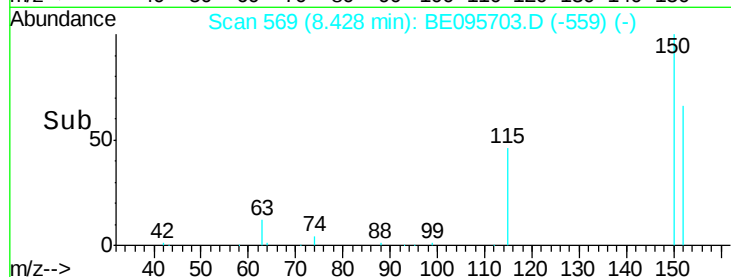
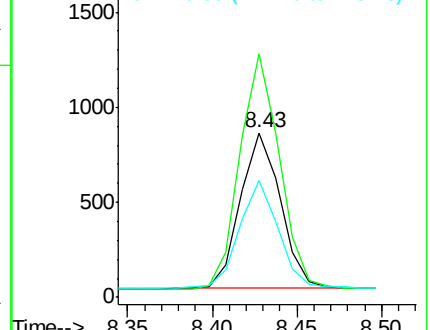
115 70.7 57.0 85.6



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



#4

2-Fluorophenol

Concen: 0.009 ng

RT: 5.92 min Scan# 313

Delta R.T. 0.01 min

Lab File: BE095703.D

Acq: 6 Mar 2018 18:35

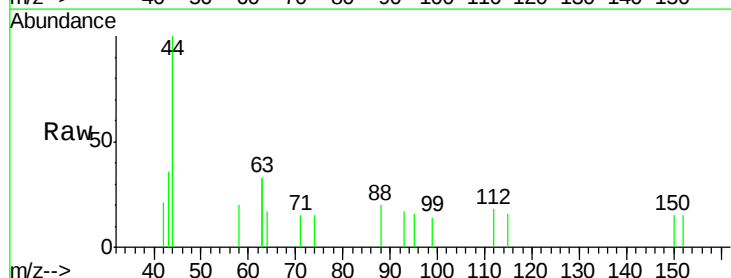
Tgt Ion:112 Resp: 32

Ion Ratio Lower Upper

112 100

64 56.3 60.1 90.1#

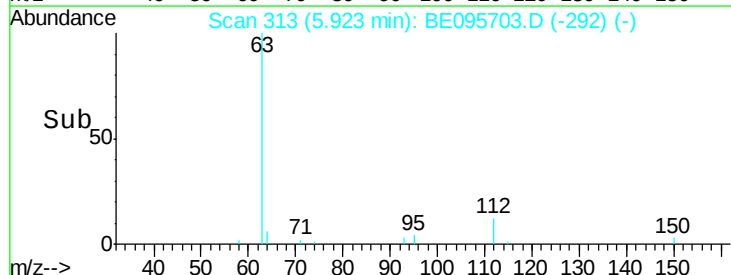
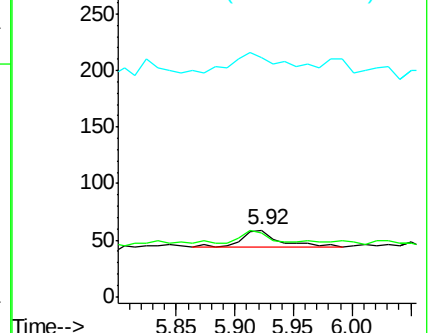
63 184.4 116.8 175.2#

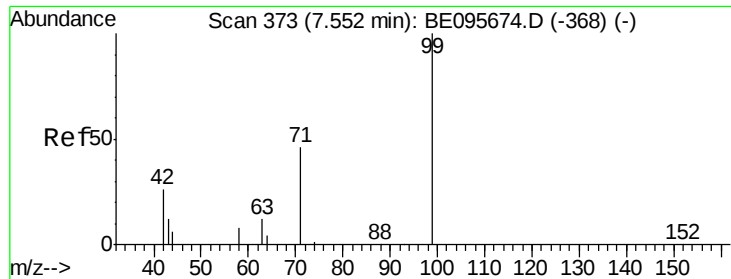


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.007 ng

RT: 7.56 min Scan# 480

Delta R.T. 0.00 min

Lab File: BE095703.D

Acq: 6 Mar 2018 18:35

Instrument :

BNA_E

ClientSampled :

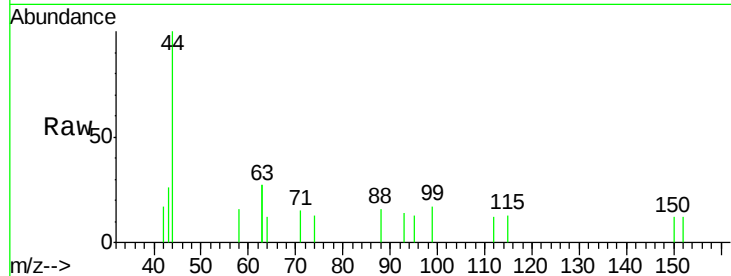
Tot Ion: 99 Resp: 36

Ion Ratio Lower Upper

99 100

42 25.0 20.2 30.2

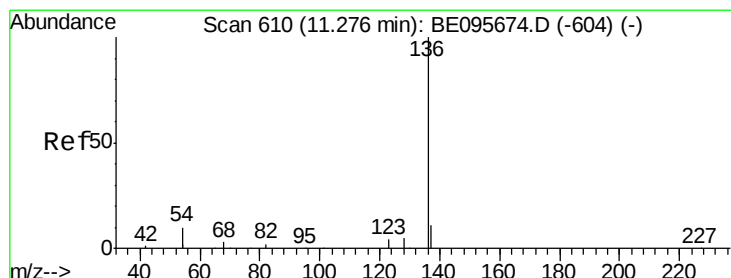
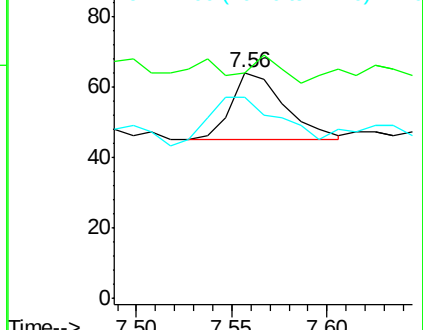
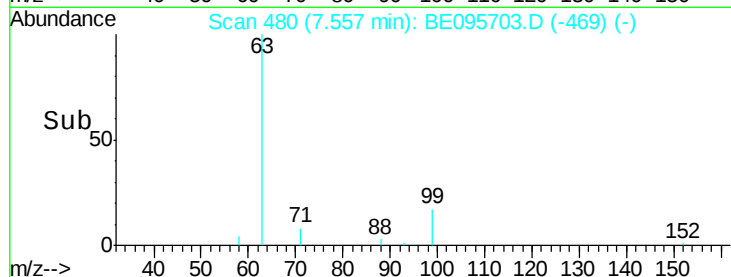
71 102.8 28.4 42.6#



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



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.27 min Scan# 785

Delta R.T. -0.01 min

Lab File: BE095703.D

Acq: 6 Mar 2018 18:35

Tgt Ion: 136 Resp: 5489

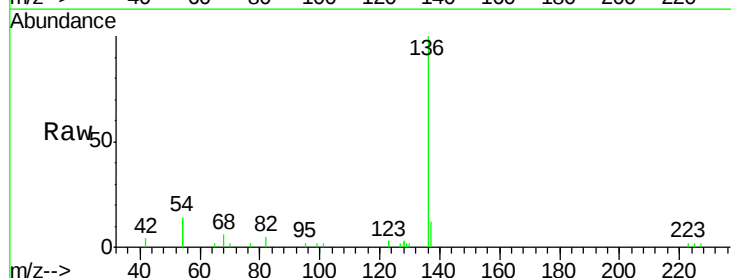
Ion Ratio Lower Upper

136 100

137 11.8 9.5 14.3

54 28.4 29.1 43.7#

68 5.8 6.2 9.2#

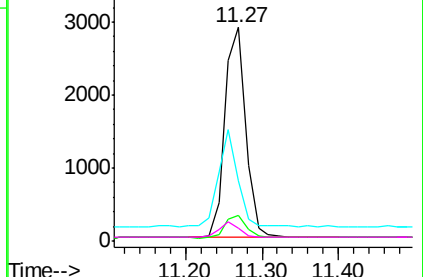
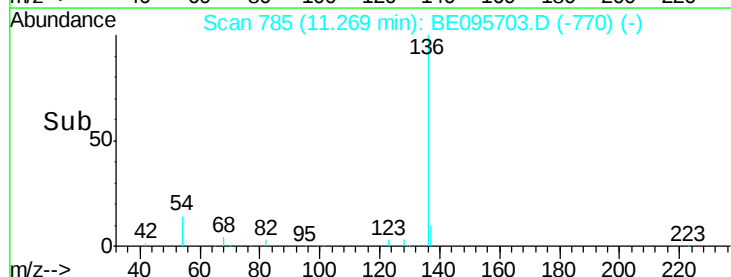


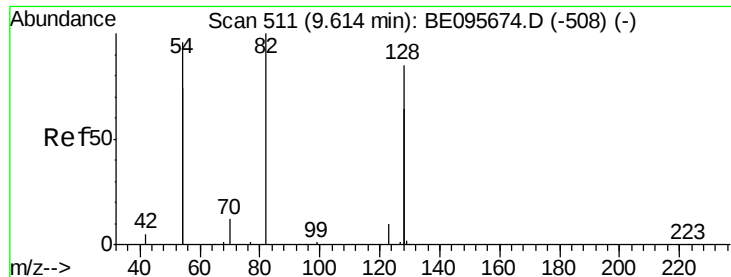
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.011 ng

RT: 9.61 min Scan# 657

Delta R.T. -0.01 min

Lab File: BE095703.D

Acq: 6 Mar 2018 18:35

Instrument :

BNA_E

ClientSampleId :

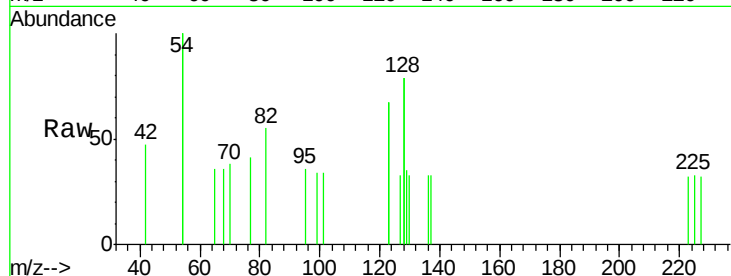
Tot Ion: 82 Resp: 62

Ion Ratio Lower Upper

82 100

128 286.8 150.0 225.0#

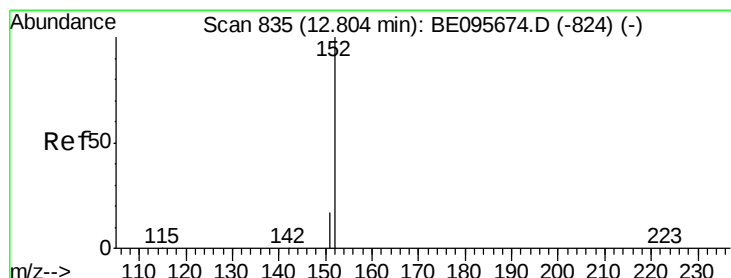
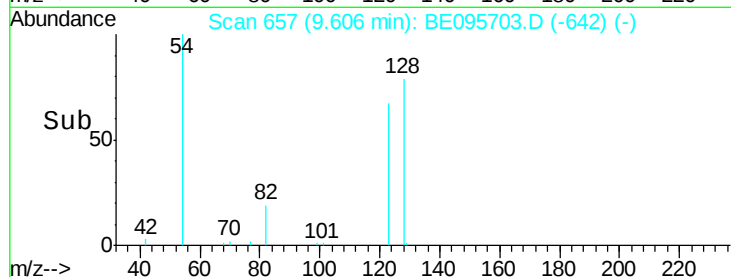
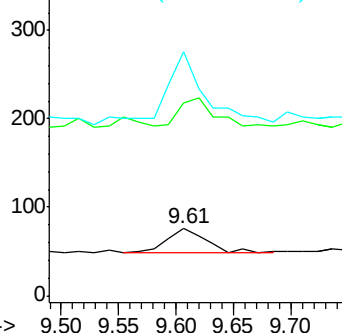
54 363.2 154.2 231.4#



Abundance Ion 82.00 (81.70 to 82.70): BE095674.D (-508) (-)

Ion 128.00 (127.70 to 128.70): BE095674.D (-508) (-)

Ion 54.00 (53.70 to 54.70): BE095674.D (-508) (-)



#11

2-Methylnaphthalene-d10

Concen: 0.011 ng

RT: 12.81 min Scan# 1074

Delta R.T. 0.00 min

Lab File: BE095703.D

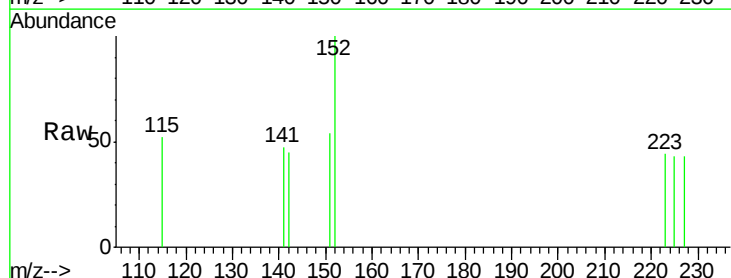
Acq: 6 Mar 2018 18:35

Tgt Ion: 152 Resp: 101

Ion Ratio Lower Upper

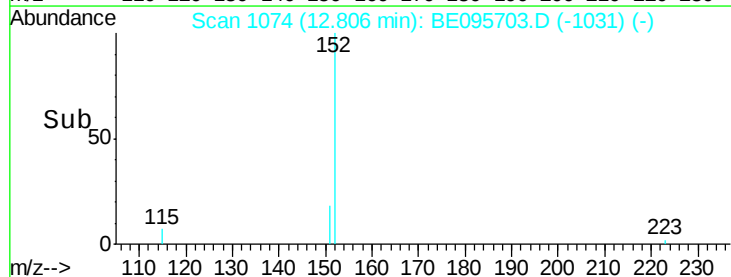
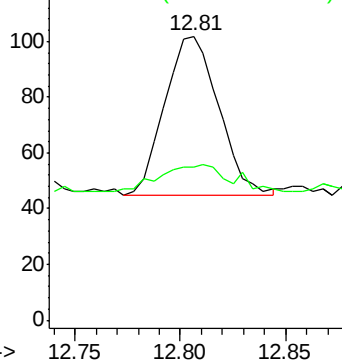
152 100

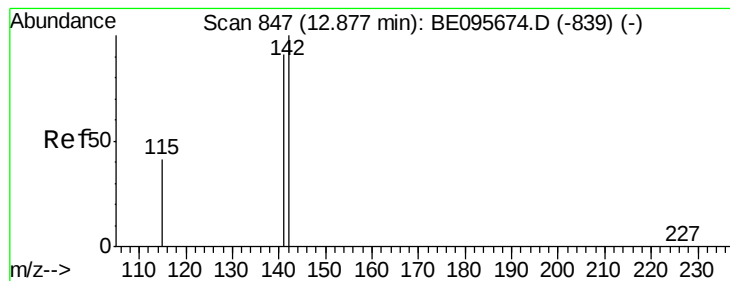
151 22.8 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): BE095674.D (-824) (-)

Ion 151.00 (150.70 to 151.70): BE095674.D (-824) (-)





#12

2-Methylnaphthalene

Concen: 0.045 ng

RT: 12.88 min Scan# 1089

Delta R.T. 0.00 min

Lab File: BE095703.D

Acq: 6 Mar 2018 18:35

Instrument :

BNA_E

ClientSampleId :

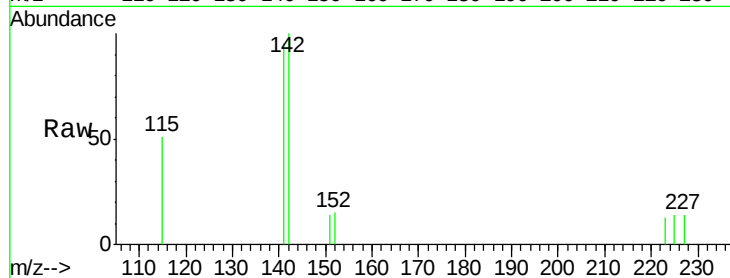
Tot Ion:142 Resp: 486

Ion Ratio Lower Upper

142 100

141 94.8 70.4 105.6

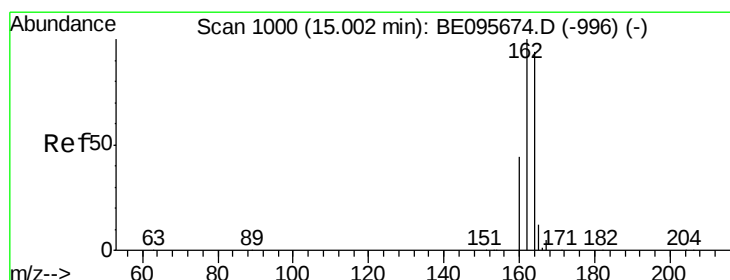
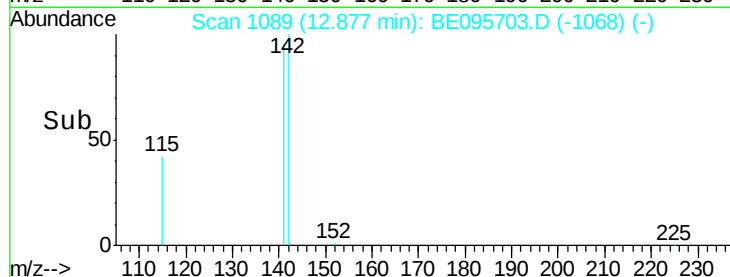
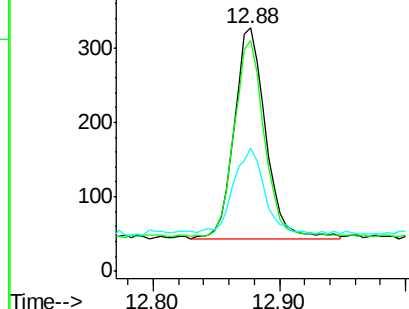
115 50.8 31.7 47.5#



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: 0.400 ng

RT: 15.00 min Scan# 1286

Delta R.T. -0.00 min

Lab File: BE095703.D

Acq: 6 Mar 2018 18:35

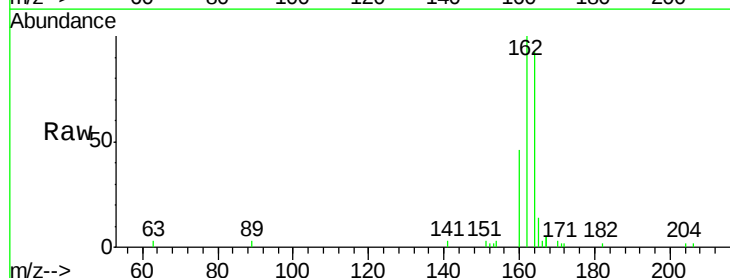
Tgt Ion:164 Resp: 3071

Ion Ratio Lower Upper

164 100

162 108.0 83.1 124.7

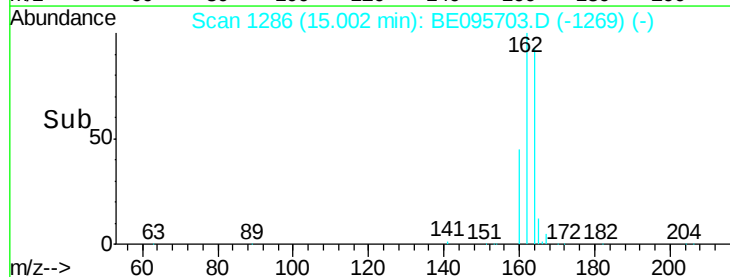
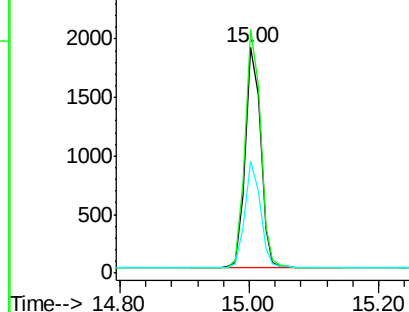
160 49.9 37.1 55.7

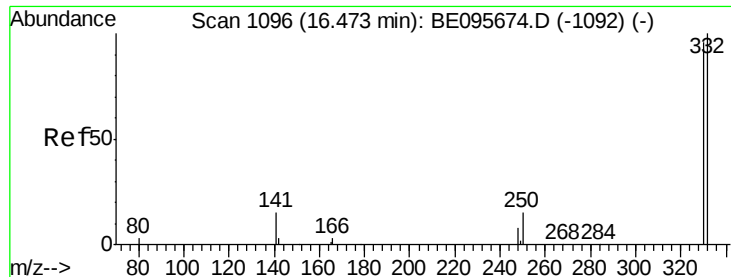


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

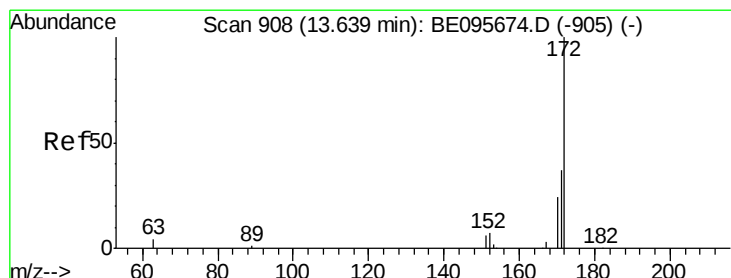
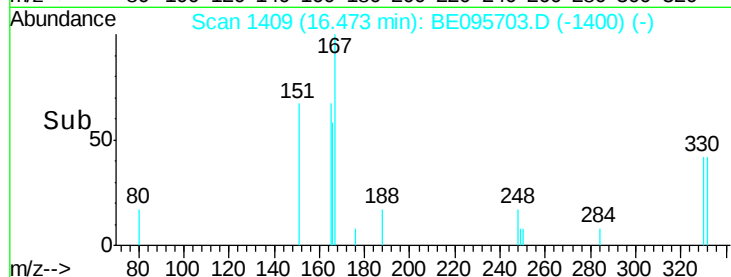
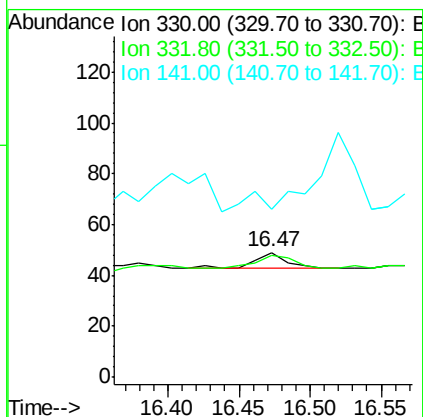
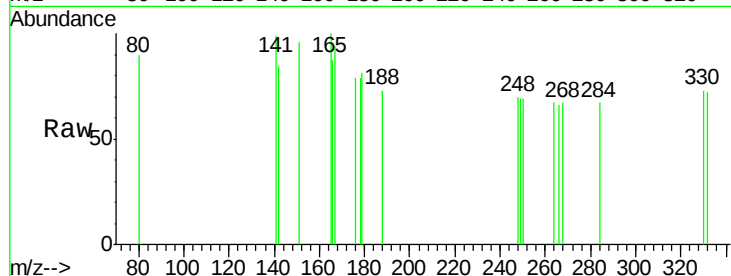




#14
 2,4,6-Tribromophenol
 Concen: 0.122 ng
 RT: 16.47 min Scan# 1409
 Delta R.T. -0.00 min
 Lab File: BE095703.D
 Acq: 6 Mar 2018 18:35

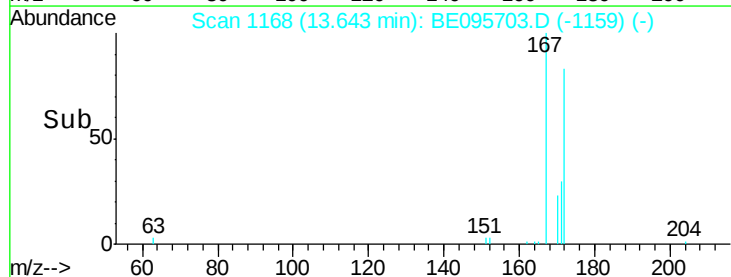
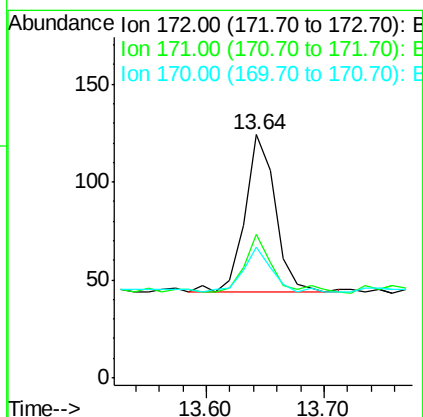
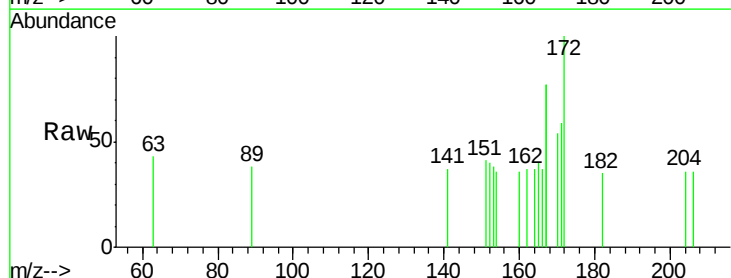
Instrument :
 BNA_E
 ClientSampleId :

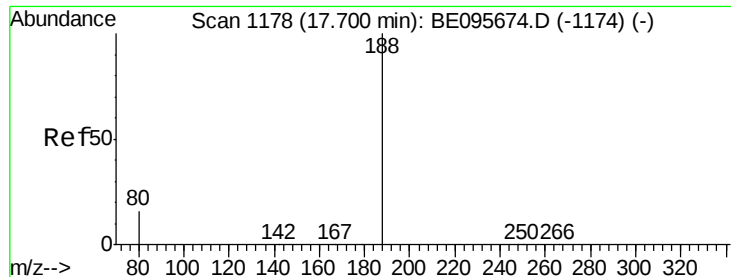
Tot Ion:330 Resp: 9
 Ion Ratio Lower Upper
 330 100
 332 100.0 152.7 229.1#
 141 55.6 33.7 50.5#



#15
 2-Fluorobiphenyl
 Concen: 0.010 ng
 RT: 13.64 min Scan# 1168
 Delta R.T. 0.00 min
 Lab File: BE095703.D
 Acq: 6 Mar 2018 18:35

Tgt Ion:172 Resp: 144
 Ion Ratio Lower Upper
 172 100
 171 58.9 29.9 44.9#
 170 54.0 21.8 32.8#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.71 min Scan# 1515

Delta R.T. 0.01 min

Lab File: BE095703.D

Acq: 6 Mar 2018 18:35

Instrument :

BNA_E

ClientSampleId :

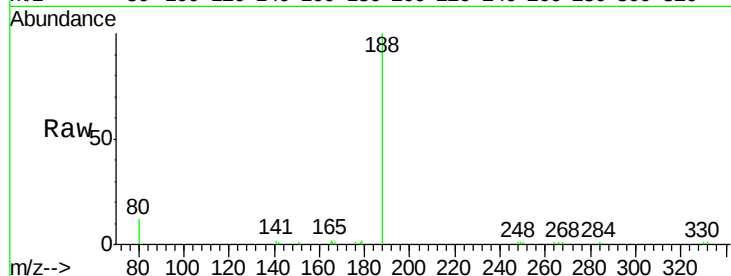
Tot Ion:188 Resp: 7040

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

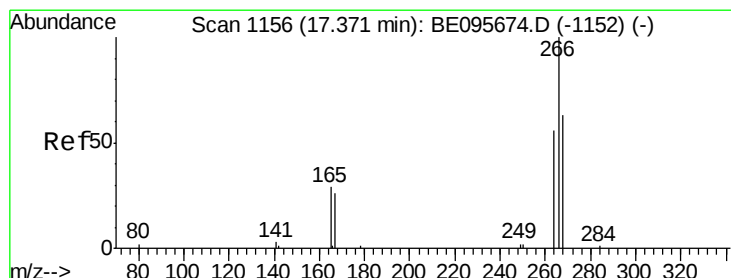
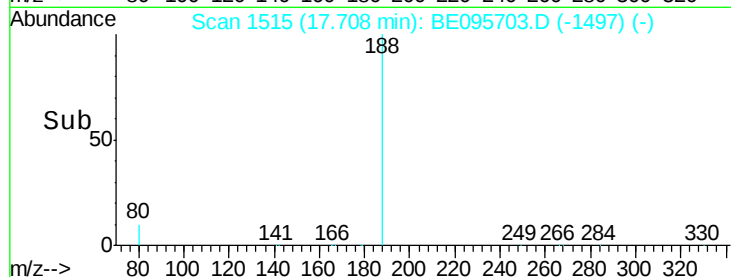
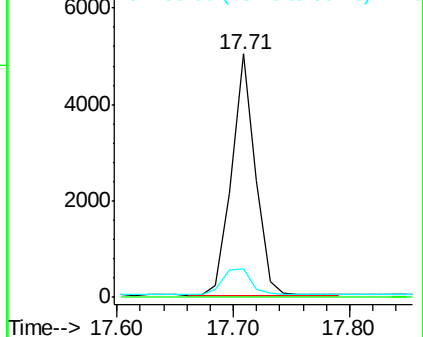
80 11.5 3.6 5.4#



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: 0.184 ng

RT: 17.37 min Scan# 1486

Delta R.T. 0.00 min

Lab File: BE095703.D

Acq: 6 Mar 2018 18:35

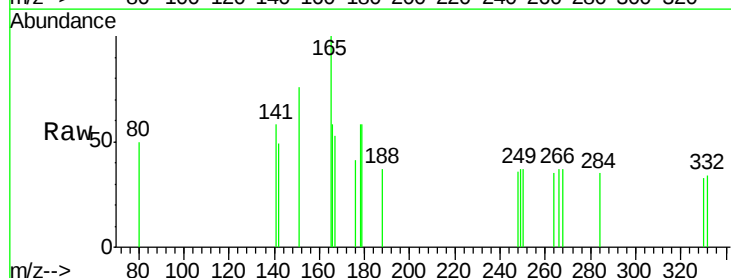
Tgt Ion:266 Resp: 9

Ion Ratio Lower Upper

266 100

264 95.8 72.5 108.7

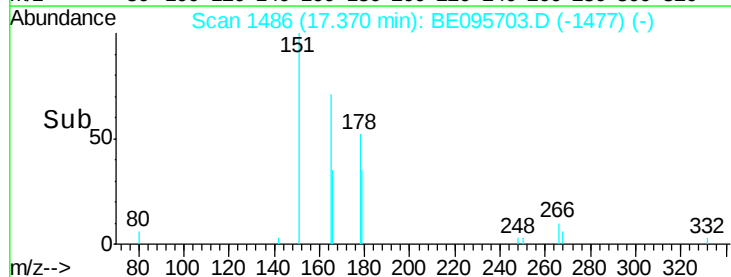
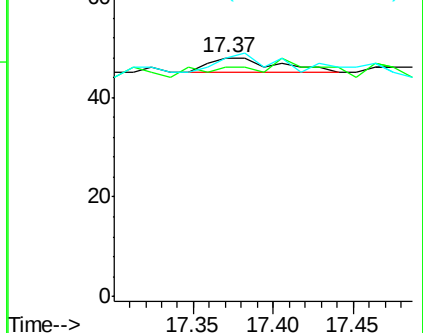
268 100.0 73.8 110.6

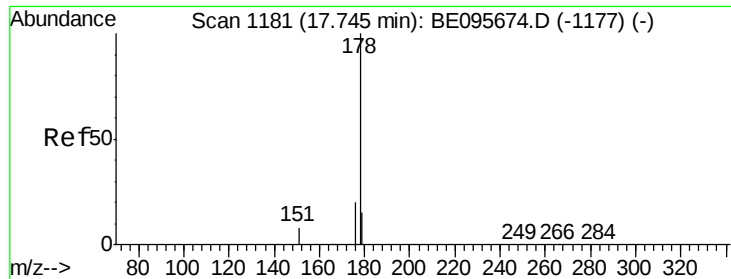


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.233 ng

RT: 17.75 min Scan# 1519

Delta R.T. 0.01 min

Lab File: BE095703.D

Acq: 6 Mar 2018 18:35

Instrument :

BNA_E

ClientSampleId :

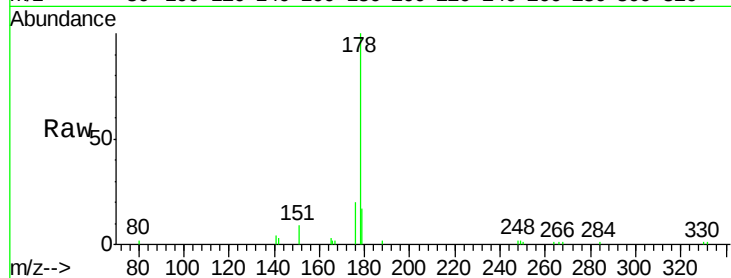
Tot Ion:178 Resp: 5126

Ion Ratio Lower Upper

178 100

176 19.7 15.1 22.7

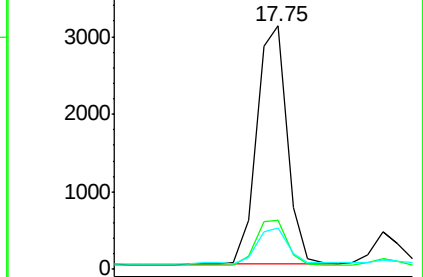
179 14.7 11.8 17.6



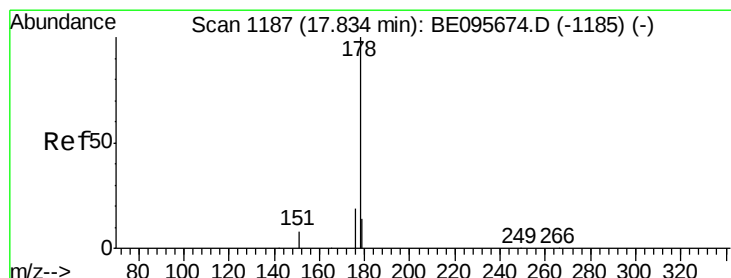
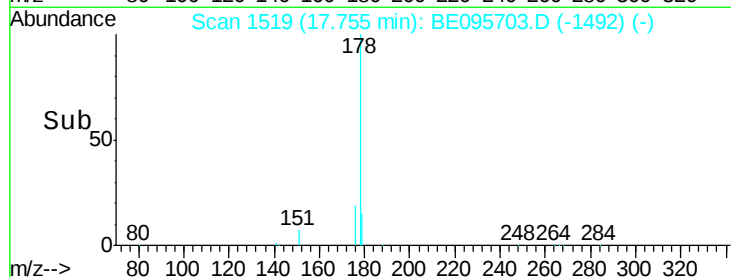
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#24

Anthracene

Concen: 0.029 ng

RT: 17.84 min Scan# 1526

Delta R.T. 0.00 min

Lab File: BE095703.D

Acq: 6 Mar 2018 18:35

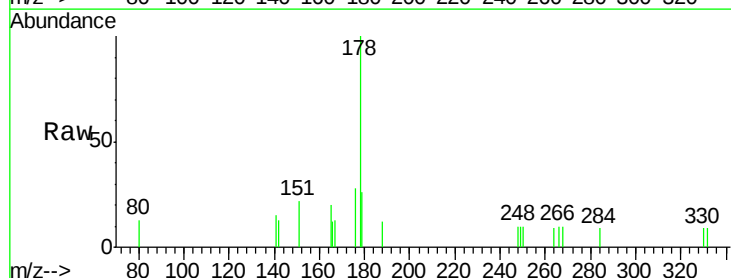
Tgt Ion:178 Resp: 596

Ion Ratio Lower Upper

178 100

176 18.3 12.8 19.2

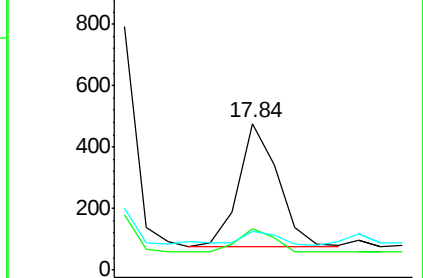
179 10.7 13.0 19.6#



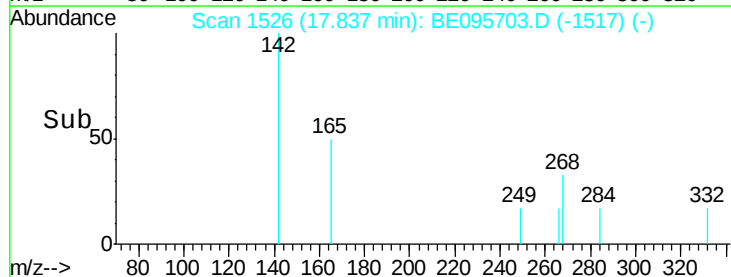
Abundance Ion 178.00 (177.70 to 178.70): E

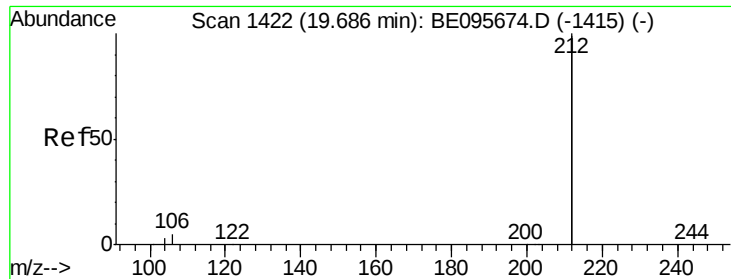
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->





#25

Fluoranthene-d10

Concen: 0.008 ng

RT: 19.69 min Scan# 1829

Delta R.T. 0.00 min

Lab File: BE095703.D

Acq: 6 Mar 2018 18:35

Instrument :

BNA_E

ClientSampleId :

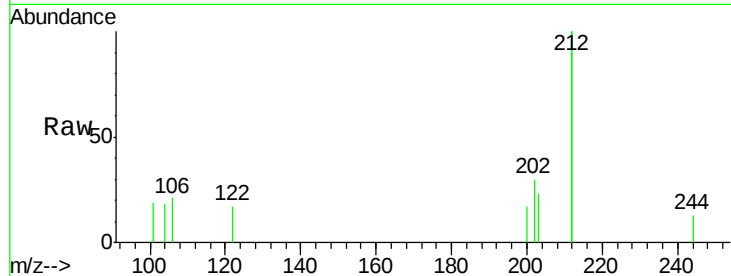
Tot Ion:212 Resp: 698

Ion Ratio Lower Upper

212 100

106 3.2 2.8 4.2

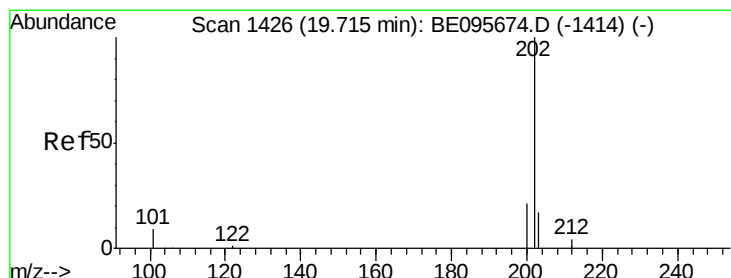
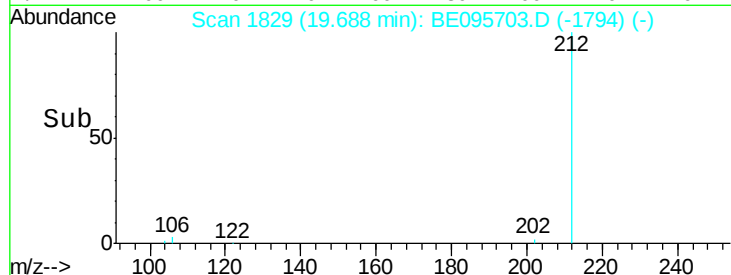
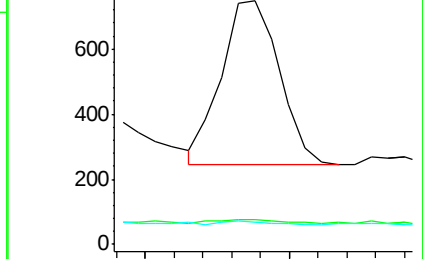
104 1.3 1.6 2.4#



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: 0.177 ng

RT: 19.72 min Scan# 1834

Delta R.T. 0.00 min

Lab File: BE095703.D

Acq: 6 Mar 2018 18:35

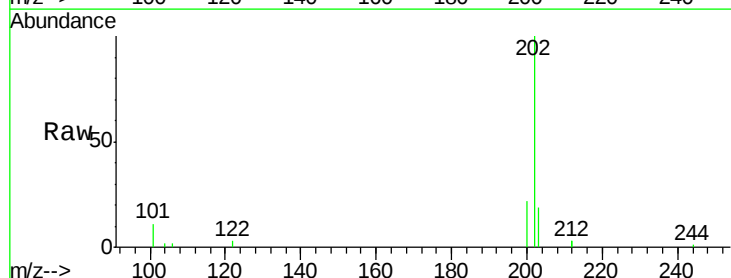
Tgt Ion:202 Resp: 4784

Ion Ratio Lower Upper

202 100

101 10.2 9.8 14.8

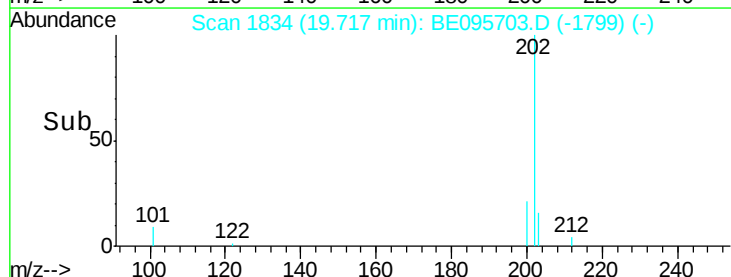
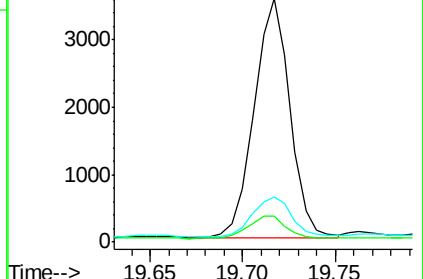
203 18.1 13.7 20.5

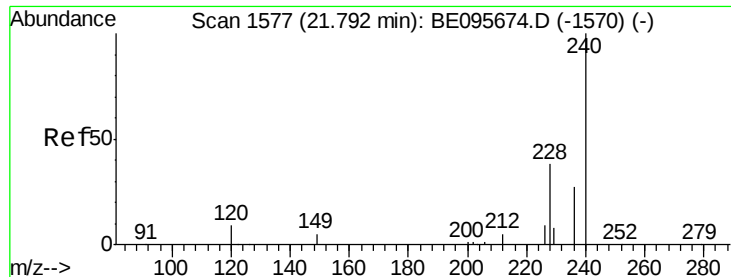


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.80 min Scan# 2029

Delta R.T. 0.01 min

Lab File: BE095703.D

Acq: 6 Mar 2018 18:35

Instrument :

BNA_E

ClientSampleId :

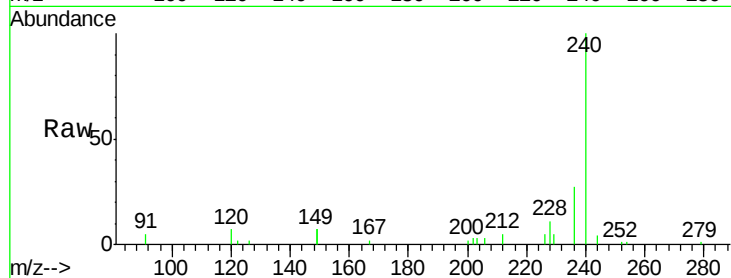
Tot Ion:240 Resp: 7440

Ion Ratio Lower Upper

240 100

120 6.9 5.5 8.3

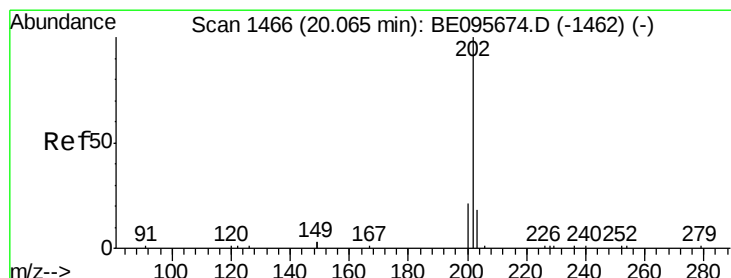
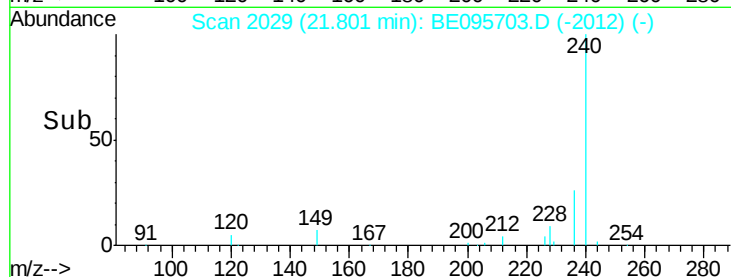
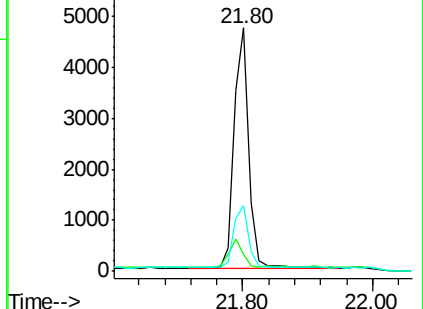
236 27.0 20.7 31.1



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

Pyrene

Concen: 0.340 ng

RT: 20.07 min Scan# 1886

Delta R.T. 0.01 min

Lab File: BE095703.D

Acq: 6 Mar 2018 18:35

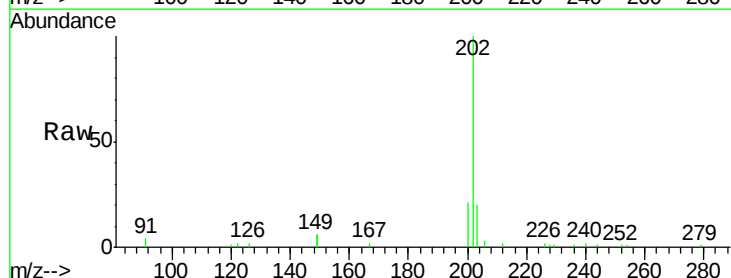
Tgt Ion:202 Resp: 10356

Ion Ratio Lower Upper

202 100

200 21.0 16.6 25.0

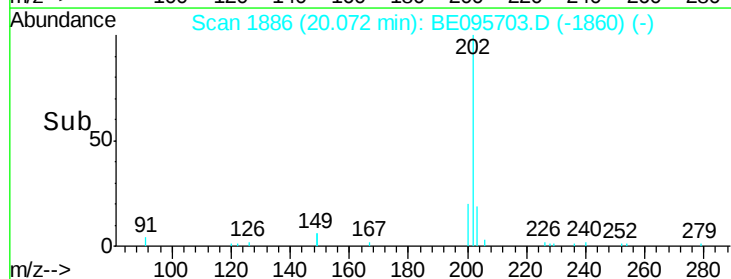
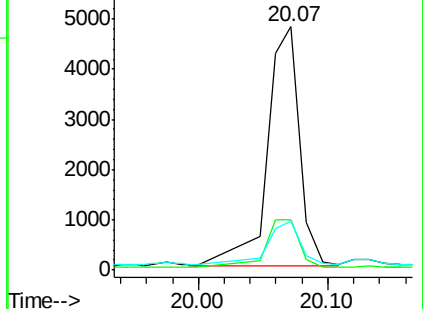
203 18.9 13.8 20.8

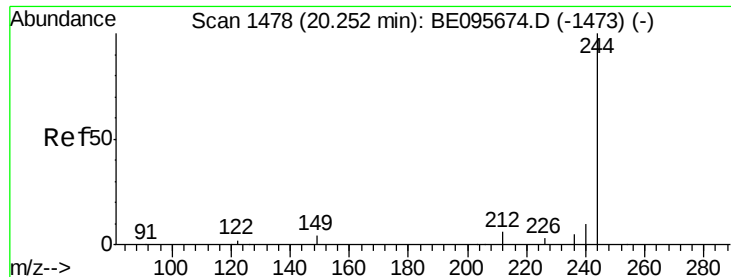


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.009 ng

RT: 20.24 min Scan# 1900

Delta R.T. -0.01 min

Lab File: BE095703.D

Acq: 6 Mar 2018 18:35

Instrument :

BNA_E

ClientSampleId :

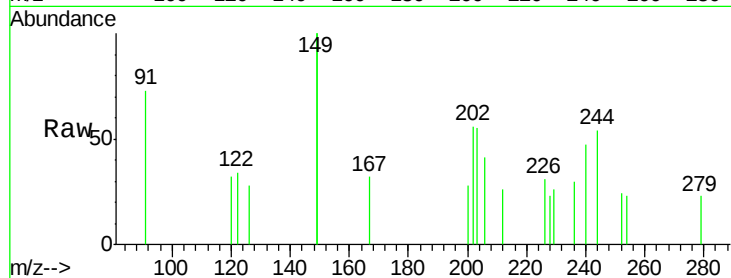
Tot Ion:244 Resp: 138

Ion Ratio Lower Upper

244 100

212 49.2 25.4 38.0#

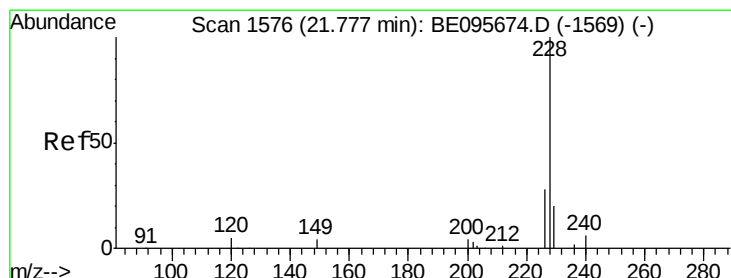
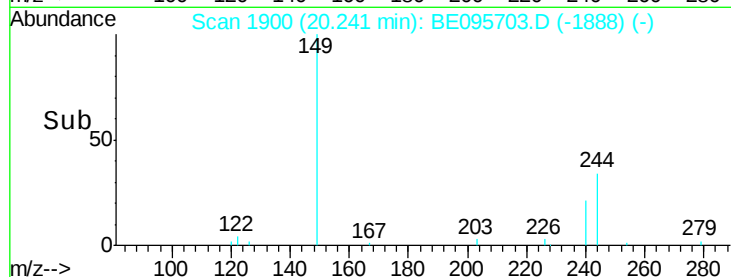
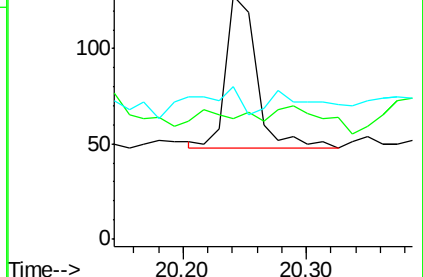
122 62.5 8.1 12.1#



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: 0.145 ng

RT: 21.78 min Scan# 2027

Delta R.T. 0.00 min

Lab File: BE095703.D

Acq: 6 Mar 2018 18:35

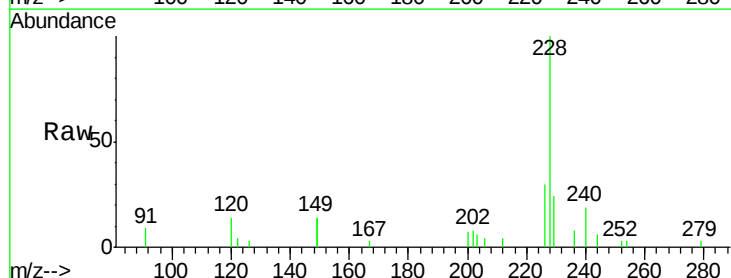
Tgt Ion:228 Resp: 3513

Ion Ratio Lower Upper

228 100

226 30.4 24.0 36.0

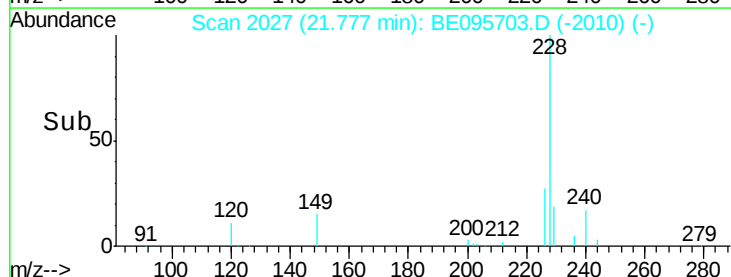
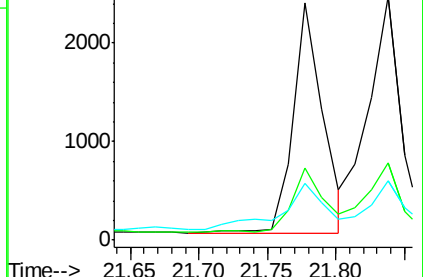
229 24.2 16.0 24.0#

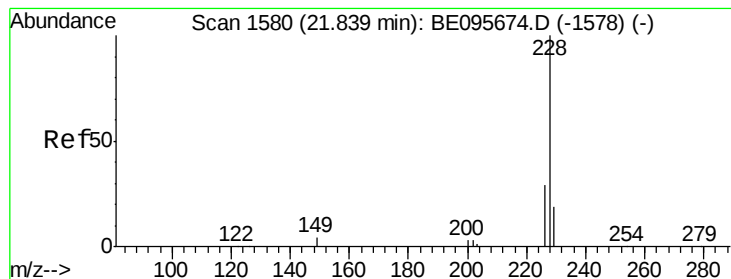


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.163 ng

RT: 21.84 min Scan# 2032

Delta R.T. -0.00 min

Lab File: BE095703.D

Acq: 6 Mar 2018 18:35

Instrument :

BNA_E

ClientSampleId :

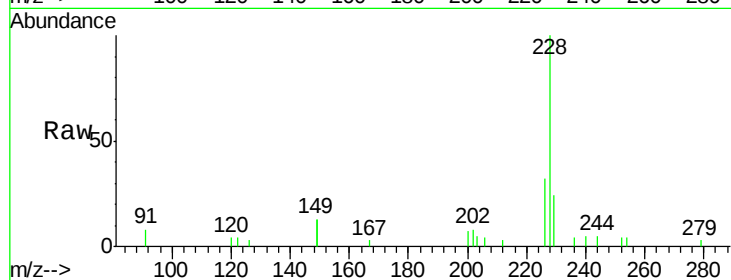
Tot Ion:228 Resp: 3942

Ion Ratio Lower Upper

228 100

226 31.9 24.0 36.0

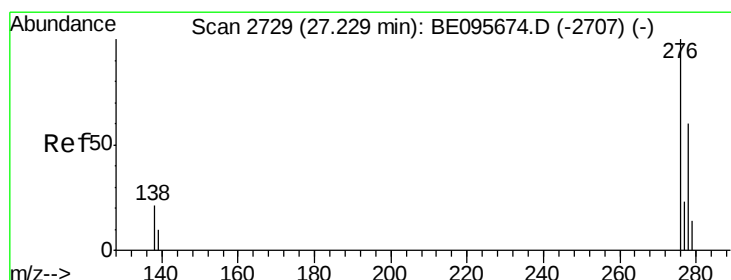
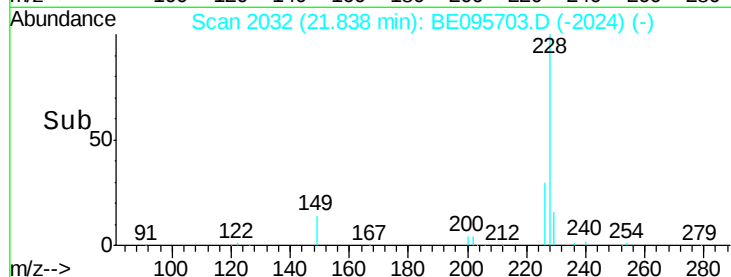
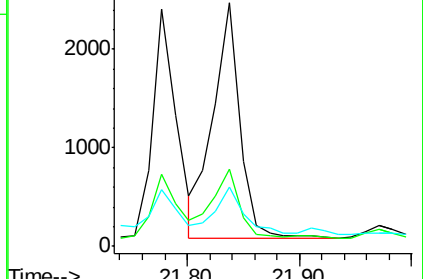
229 24.2 16.0 24.0#



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



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.079 ng

RT: 27.23 min Scan# 3500

Delta R.T. -0.00 min

Lab File: BE095703.D

Acq: 6 Mar 2018 18:35

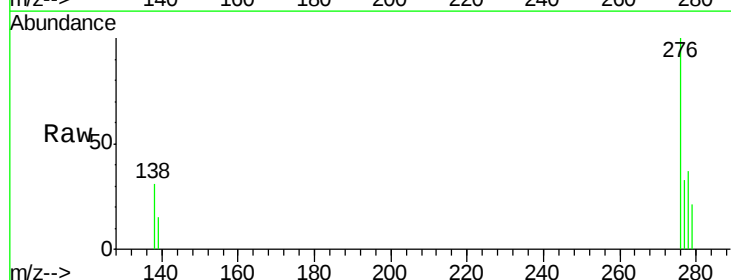
Tgt Ion:276 Resp: 1855

Ion Ratio Lower Upper

276 100

138 20.8 22.5 33.7#

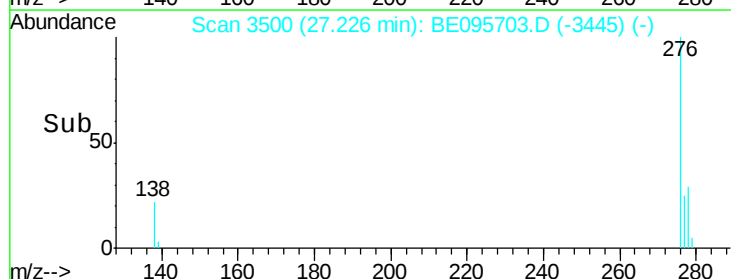
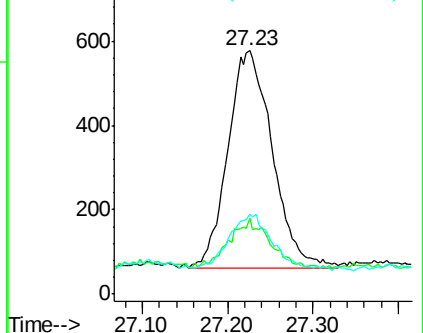
277 23.3 19.9 29.9

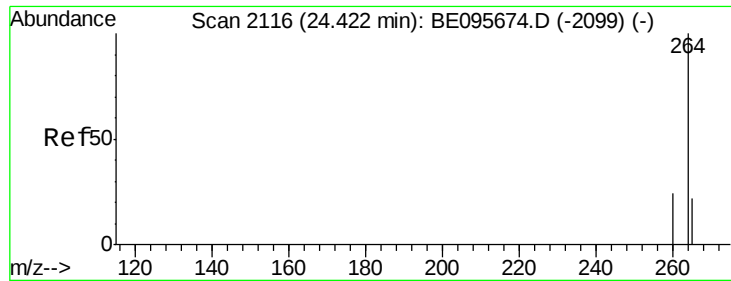


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

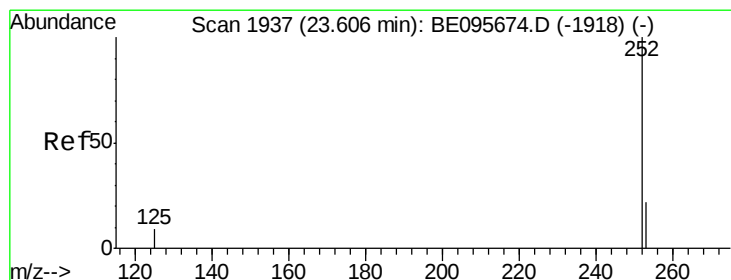
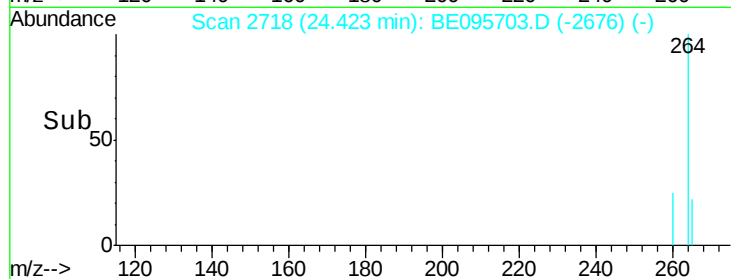
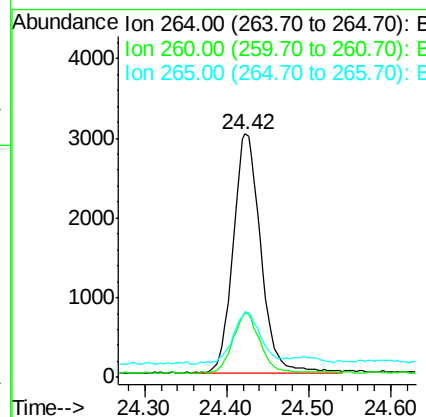
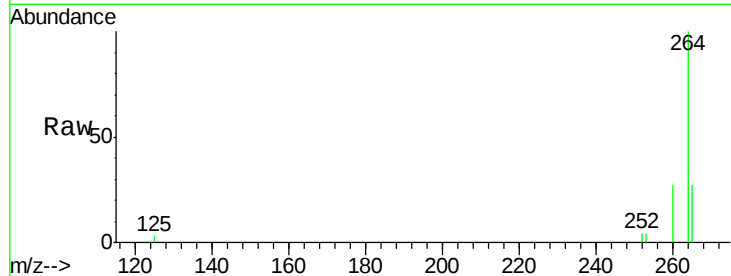




#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 24.42 min Scan# 2718
 Delta R.T. 0.00 min
 Lab File: BE095703.D
 Acq: 6 Mar 2018 18:35

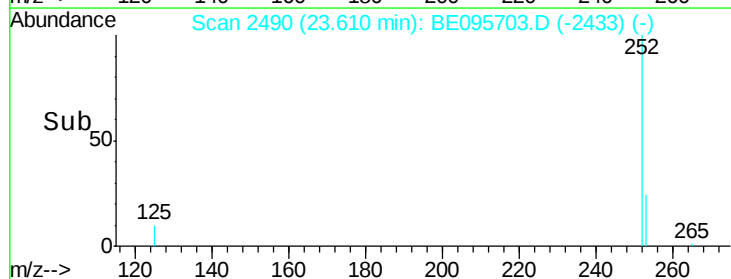
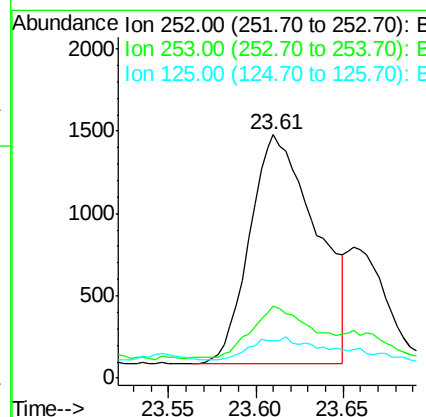
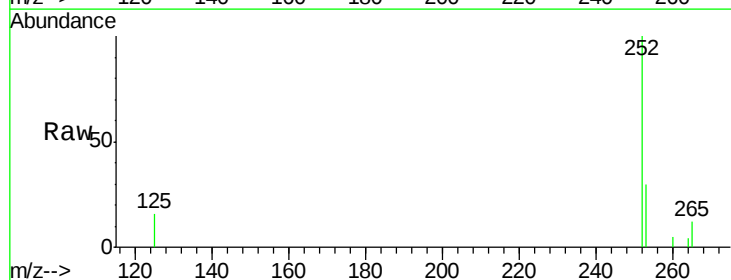
Instrument :
 BNA_E
 ClientSampleId :

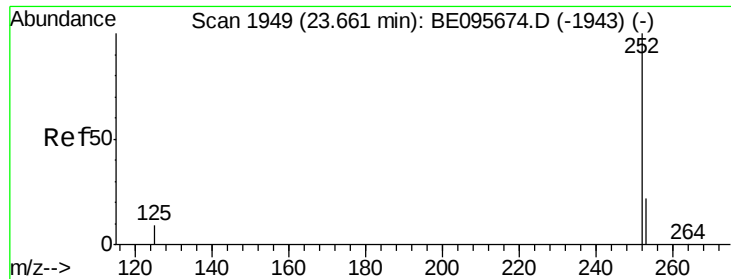
Tot Ion:264 Resp: 6993
 Ion Ratio Lower Upper
 264 100
 260 26.7 20.5 30.7
 265 27.1 22.8 34.2



#35
 Benzo(b)fluoranthene
 Concen: 0.148 ng
 RT: 23.61 min Scan# 2490
 Delta R.T. 0.00 min
 Lab File: BE095703.D
 Acq: 6 Mar 2018 18:35

Tgt Ion:252 Resp: 3695
 Ion Ratio Lower Upper
 252 100
 253 29.7 20.0 30.0
 125 15.7 16.0 24.0#

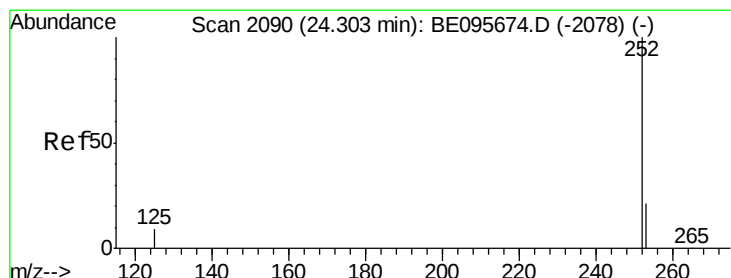
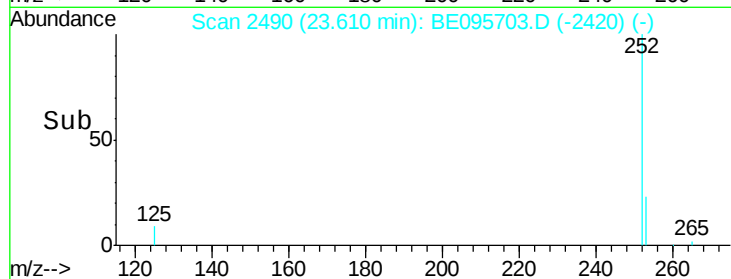
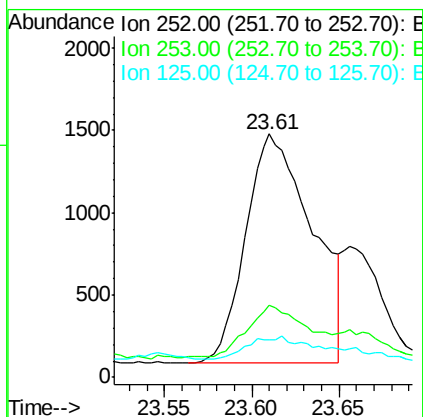
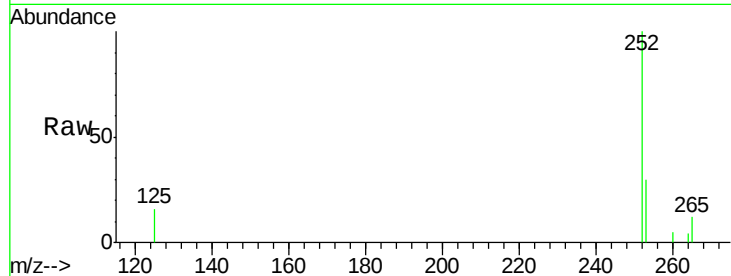




#36
Benzo(k)fluoranthene
Concen: 0.149 ng
RT: 23.61 min Scan# 2490
Delta R.T. -0.05 min
Lab File: BE095703.D
Acq: 6 Mar 2018 18:35

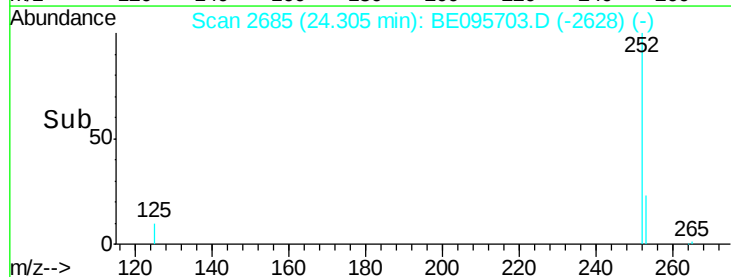
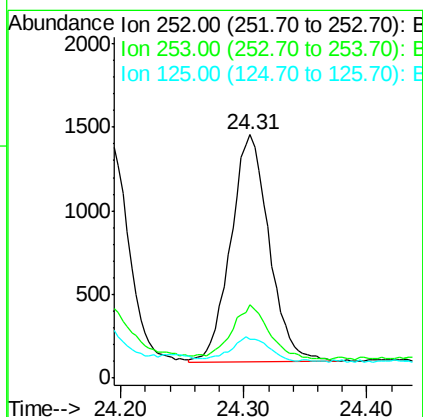
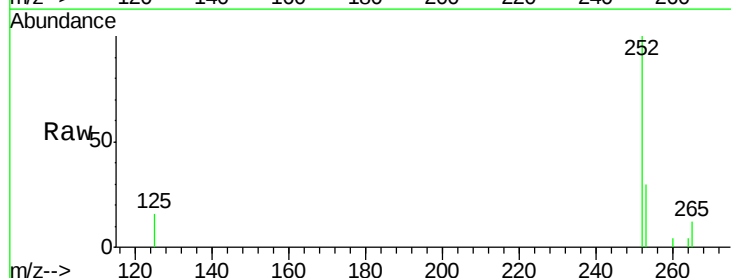
Instrument :
BNA_E
ClientSampleId :

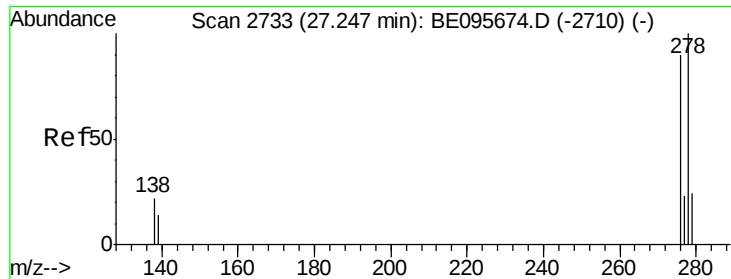
Tot Ion:252 Resp: 3695
Ion Ratio Lower Upper
252 100
253 29.7 16.0 24.0#
125 15.7 8.0 12.0#



#37
Benzo(a)pyrene
Concen: 0.131 ng
RT: 24.31 min Scan# 2685
Delta R.T. 0.00 min
Lab File: BE095703.D
Acq: 6 Mar 2018 18:35

Tgt Ion:252 Resp: 2937
Ion Ratio Lower Upper
252 100
253 30.2 16.0 24.0#
125 15.9 12.0 18.0





#38

Dibenzo(a,h)anthracene

Concen: 0.037 ng

RT: 27.24 min Scan# 3503

Delta R.T. -0.01 min

Lab File: BE095703.D

Acq: 6 Mar 2018 18:35

Instrument :

BNA_E

ClientSampleId :

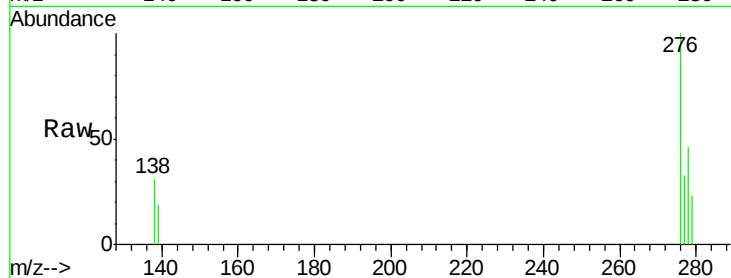
Tot Ion:278 Resp: 734

Ion Ratio Lower Upper

278 100

139 40.4 16.0 24.0#

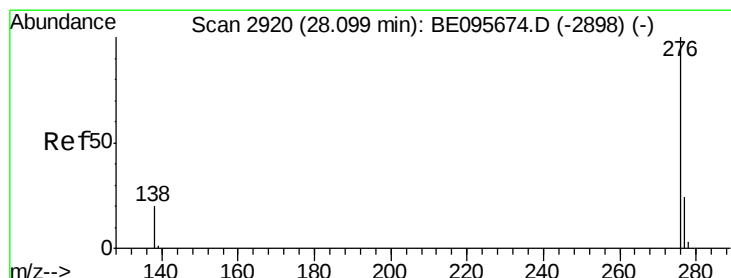
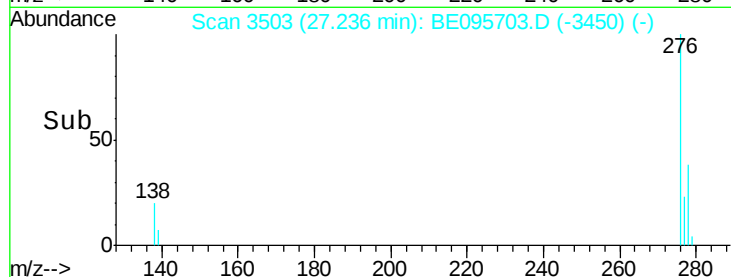
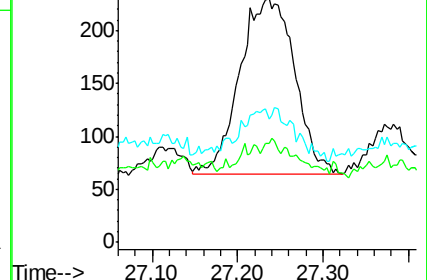
279 50.4 20.0 30.0#



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



#39

Benzo(g,h,i)perylene

Concen: 0.143 ng

RT: 28.10 min Scan# 3745

Delta R.T. 0.00 min

Lab File: BE095703.D

Acq: 6 Mar 2018 18:35

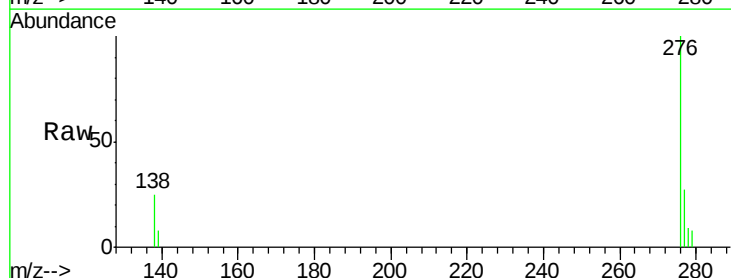
Tgt Ion:276 Resp: 3058

Ion Ratio Lower Upper

276 100

277 26.7 16.0 24.0#

138 24.5 20.0 30.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

