

Data Path : Z:\HPCHEM1\BNA E\DATA\BE030618\
 Data File : BE095704.D
 Acq On : 6 Mar 2018 19:11
 Operator : SJ/JU
 Sample : J1811-01MS 20X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 07 01:11:14 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	1378	0.40	ng	0.00
7) Naphthalene-d8	11.27	136	5570	0.40	ng	0.00
13) Acenaphthene-d10	15.00	164	3232	0.40	ng	0.00
19) Phenanthrene-d10	17.71	188	7380	0.40	ng	0.00
27) Chrysene-d12	21.80	240	7591	0.40	ng	0.00
34) Perylene-d12	24.43	264	7118	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.92	112	43	0.01	ng	0.00
5) Phenol-d6	7.57	99	57	0.01	ng	0.01
8) Nitrobenzene-d5	9.61	82	79	0.01	ng	0.00
11) 2-Methylnaphthalene-d10	12.81	152	123	0.01	ng	0.00
14) 2,4,6-Tribromophenol	16.47	330	17	0.13	ng	0.00
15) 2-Fluorobiphenyl	13.64	172	192	0.01	ng	0.00
25) Fluoranthene-d10	19.69	212	993	0.01	ng	0.00
29) Terphenyl-d14	20.25	244	191	0.01	ng	0.00

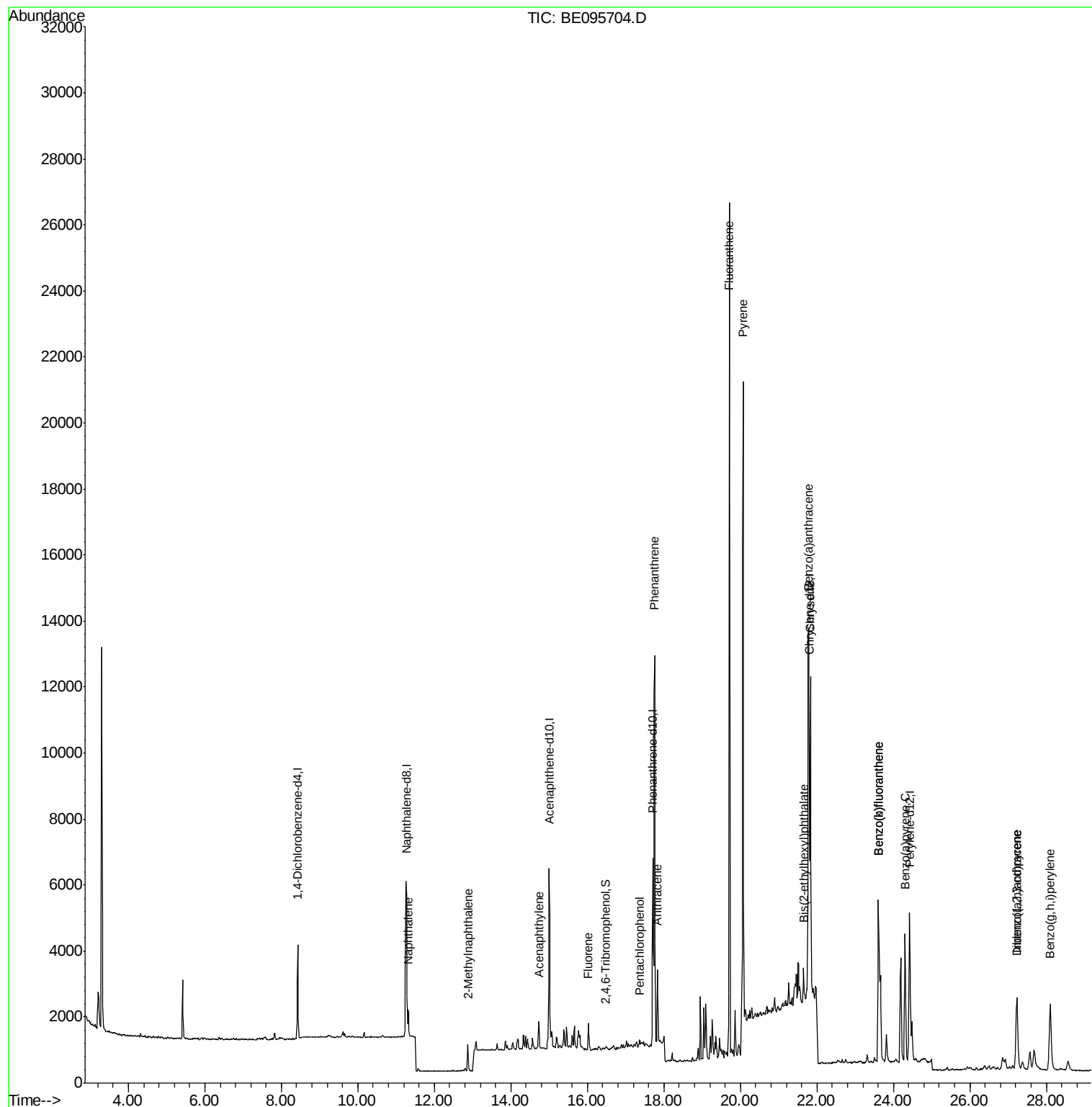
Target Compounds				Qvalue		
9) Naphthalene	11.31	128	1419	0.022	ng	# 86
12) 2-Methylnaphthalene	12.88	142	571	0.052	ng	# 94
16) Acenaphthylene	14.74	152	1007	0.055	ng	# 92
18) Fluorene	16.03	166	585	0.041	ng	# 74
22) Pentachlorophenol	17.36	266	24	0.192	ng	97
23) Phenanthrene	17.75	178	13573	0.588	ng	99
24) Anthracene	17.84	178	2424	0.114	ng	# 93
26) Fluoranthene	19.72	202	23100	0.814	ng	# 97
28) Pyrene	20.07	202	26941	0.868	ng	97
30) Benzo(a)anthracene	21.78	228	9729	0.393	ng	97
31) Chrysene	21.84	228	9455	0.384	ng	95
32) Bis(2-ethylhexyl)phthalate	21.66	149	1357	0.031	ng	# 96
33) Indeno(1,2,3-cd)pyrene	27.23	276	4246	0.178	ng	# 91
35) Benzo(b)fluoranthene	23.61	252	9271	0.366	ng	# 92
36) Benzo(k)fluoranthene	23.61	252	9271	0.368	ng	# 90
37) Benzo(a)pyrene	24.30	252	6426	0.281	ng	# 92
38) Dibenzo(a,h)anthracene	27.24	278	1274	0.063	ng	# 75
39) Benzo(a,h,i)perylene	28.10	276	5048	0.232	ng	# 89

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

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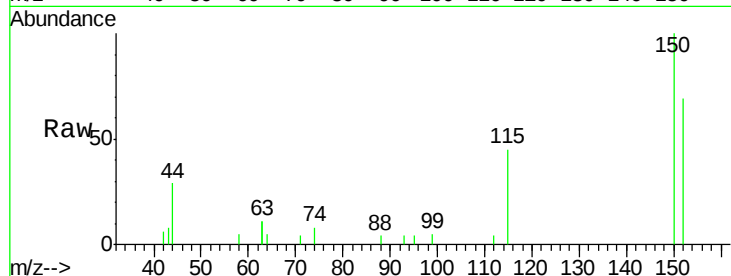


#1

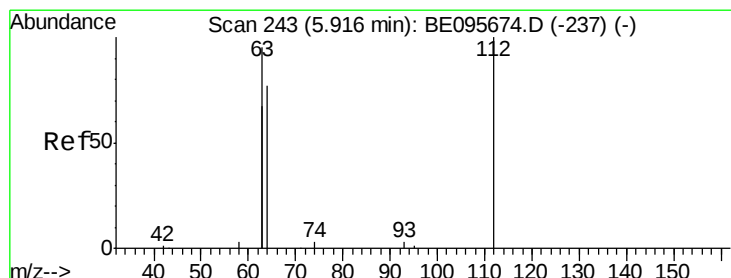
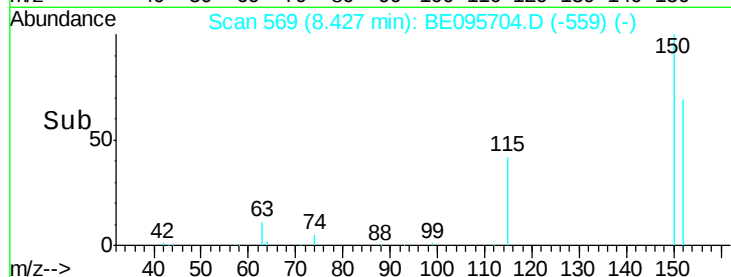
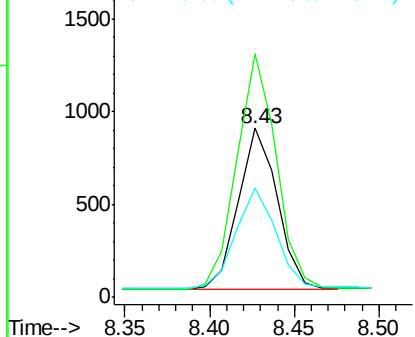
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.43 min Scan# 569
Delta R.T. -0.01 min
Lab File: BE095704.D
Acq: 6 Mar 2018 19:11

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 1378
Ion Ratio Lower Upper
152 100
150 144.0 117.2 175.8
115 64.5 57.0 85.6



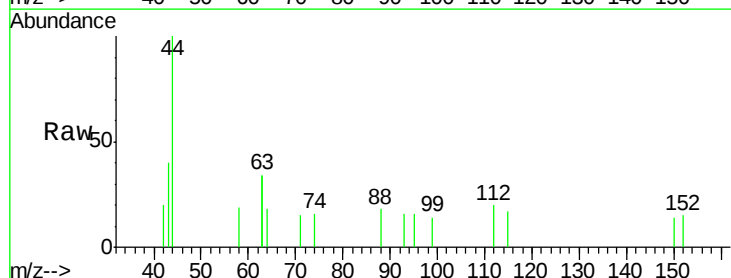
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



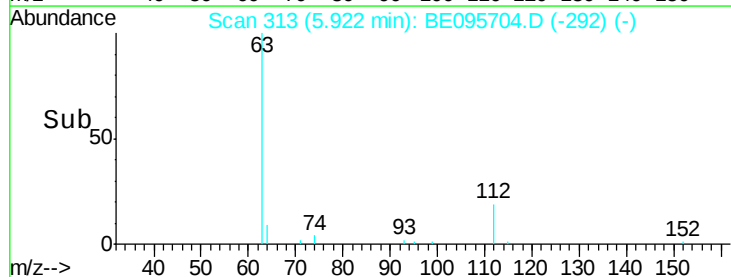
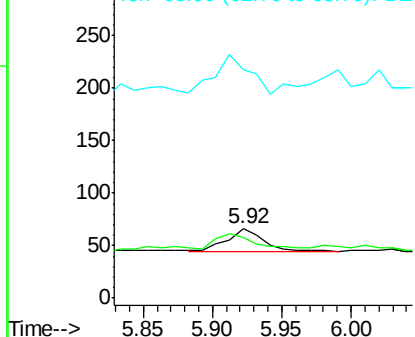
#4

2-Fluorophenol
Concen: 0.012 ng
RT: 5.92 min Scan# 313
Delta R.T. 0.01 min
Lab File: BE095704.D
Acq: 6 Mar 2018 19:11

Tgt Ion:112 Resp: 43
Ion Ratio Lower Upper
112 100
64 48.8 60.1 90.1#
63 153.5 116.8 175.2



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: 0.011 ng

RT: 7.57 min Scan# 481

Delta R.T. 0.01 min

Lab File: BE095704.D

Acq: 6 Mar 2018 19:11

Instrument :

BNA_E

ClientSampled :

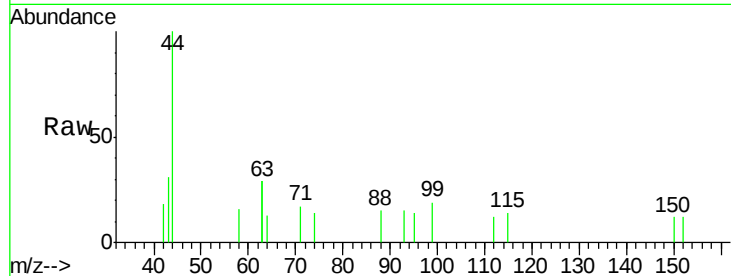
Tot Ion: 99 Resp: 57

Ion Ratio Lower Upper

99 100

42 33.3 20.2 30.2#

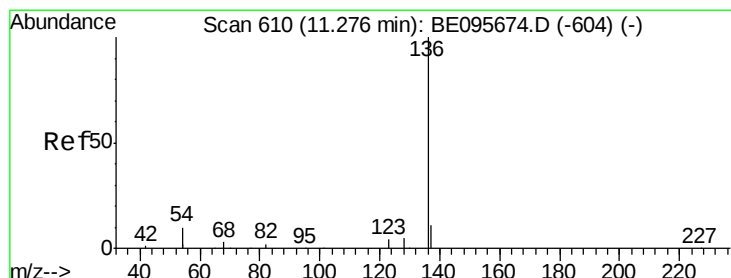
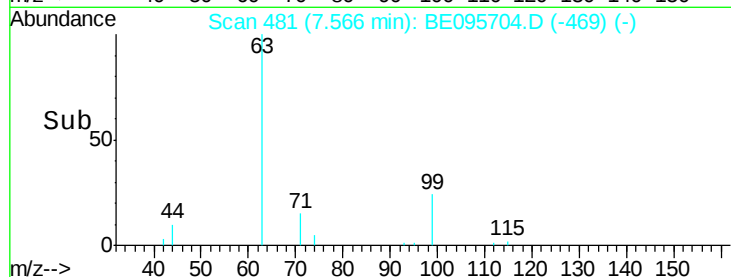
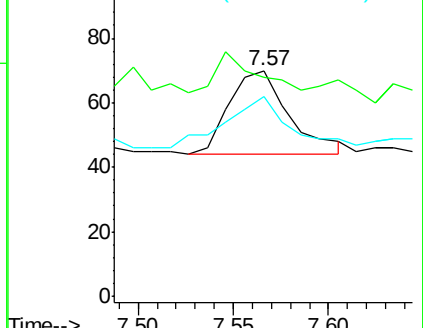
71 61.4 28.4 42.6#



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: BE095704.D

Acq: 6 Mar 2018 19:11

Tgt Ion: 136 Resp: 5570

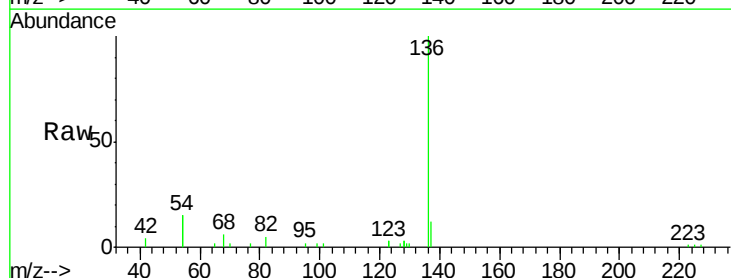
Ion Ratio Lower Upper

136 100

137 12.2 9.5 14.3

54 30.4 29.1 43.7

68 5.7 6.2 9.2#

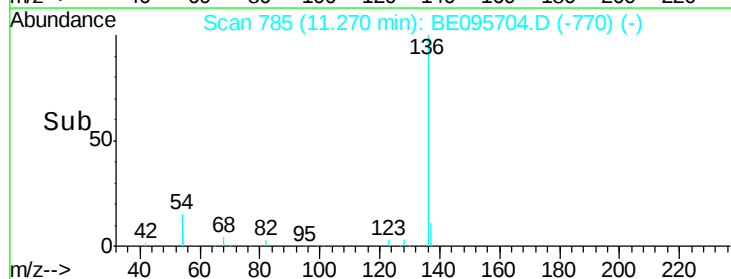
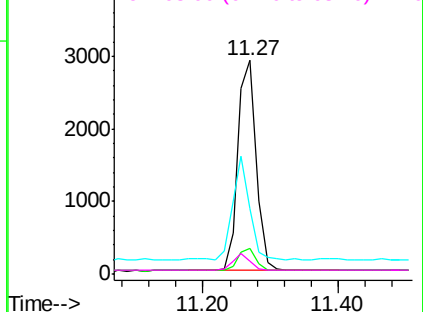


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.014 ng

RT: 9.61 min Scan# 657

Delta R.T. -0.01 min

Lab File: BE095704.D

Acq: 6 Mar 2018 19:11

Instrument :

BNA_E

ClientSampleId :

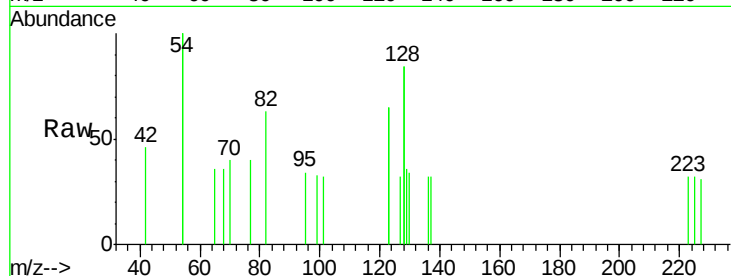
Tot Ion: 82 Resp: 79

Ion Ratio Lower Upper

82 100

128 269.0 150.0 225.0#

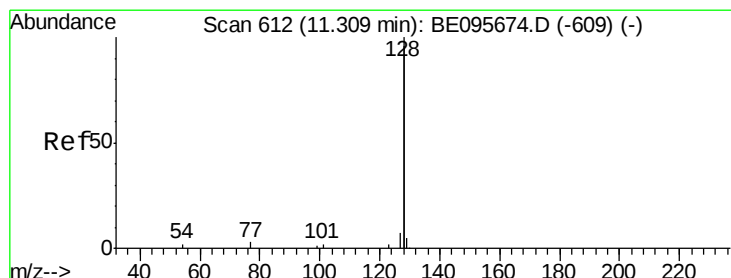
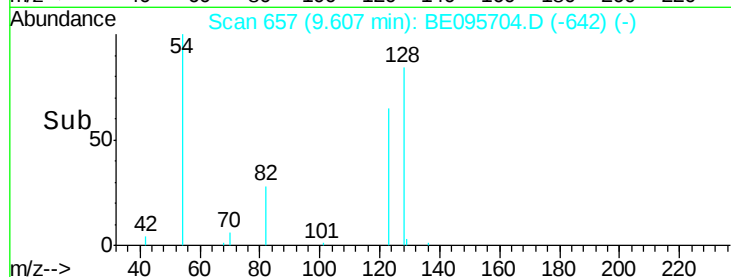
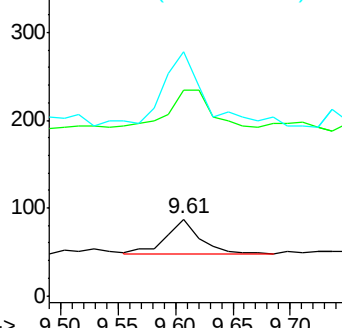
54 319.5 154.2 231.4#



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) (-)



#9

Naphthalene

Concen: 0.022 ng

RT: 11.31 min Scan# 788

Delta R.T. -0.00 min

Lab File: BE095704.D

Acq: 6 Mar 2018 19:11

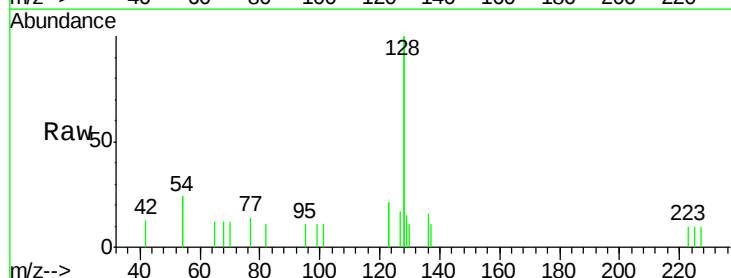
Tgt Ion: 128 Resp: 1419

Ion Ratio Lower Upper

128 100

129 7.6 2.6 3.8#

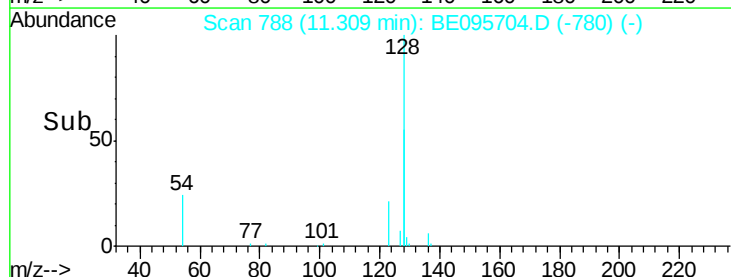
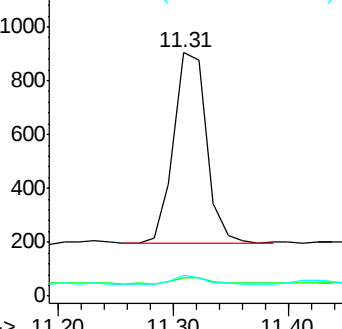
127 8.5 2.8 4.2#

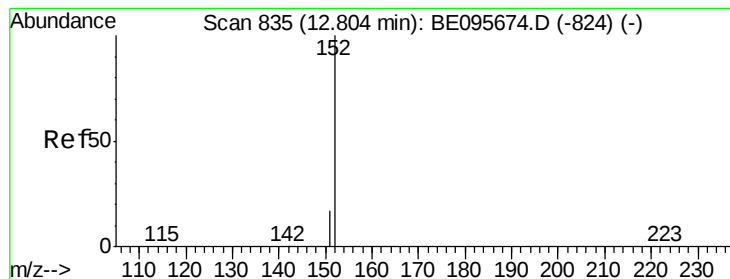


Abundance Ion 128.00 (127.70 to 128.70): BE095674.D (-609) (-)

Ion 129.00 (128.70 to 129.70): BE095674.D (-609) (-)

Ion 127.00 (126.70 to 127.70): BE095674.D (-609) (-)





#11

2-Methylnaphthalene-d10

Concen: 0.013 ng

RT: 12.81 min Scan# 1074

Delta R.T. 0.00 min

Lab File: BE095704.D

Acq: 6 Mar 2018 19:11

Instrument :

BNA_E

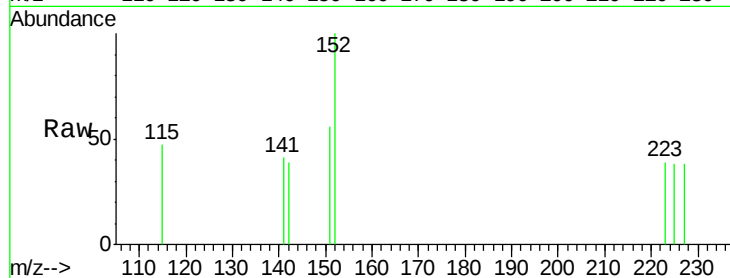
ClientSampleId :

Tot Ion:152 Resp: 123

Ion Ratio Lower Upper

152 100

151 30.1 15.4 23.0#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

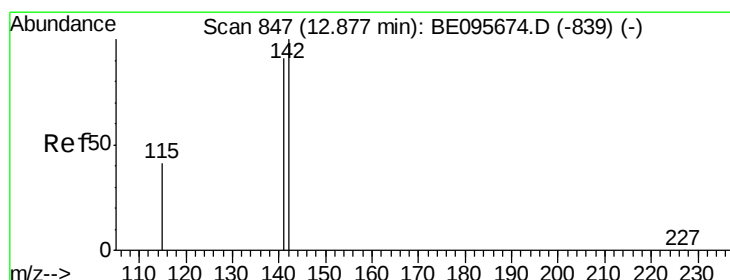
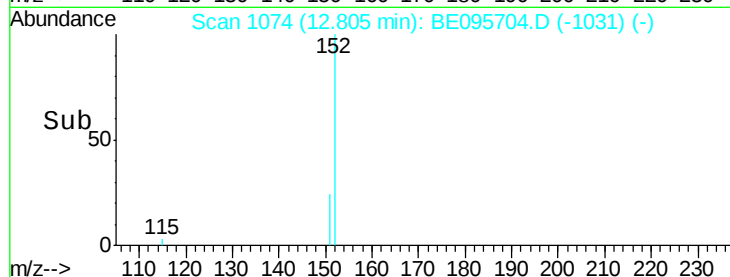
12.81

100

50

0

Time-->



#12

2-Methylnaphthalene

Concen: 0.052 ng

RT: 12.88 min Scan# 1089

Delta R.T. -0.00 min

Lab File: BE095704.D

Acq: 6 Mar 2018 19:11

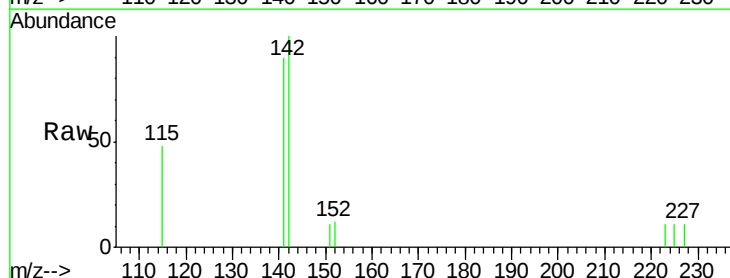
Tgt Ion:142 Resp: 571

Ion Ratio Lower Upper

142 100

141 90.1 70.4 105.6

115 47.5 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

500

400

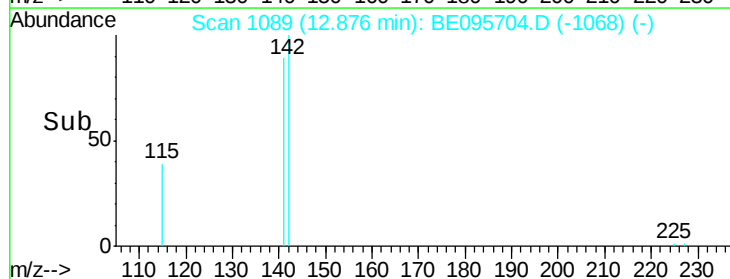
300

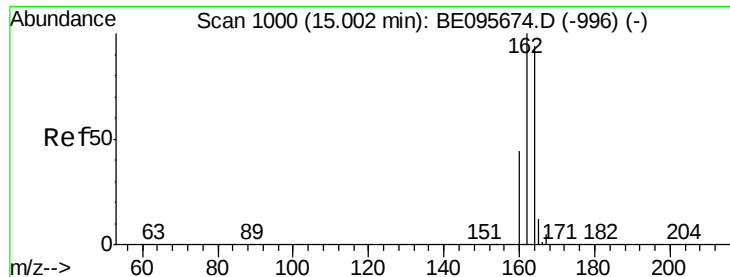
200

100

0

Time-->





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 15.00 min Scan# 1286

Delta R.T. -0.00 min

Lab File: BE095704.D

Acq: 6 Mar 2018 19:11

Instrument :

BNA_E

ClientSampled :

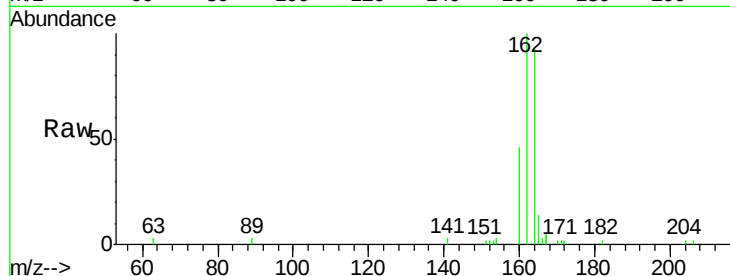
Tot Ion:164 Resp: 3232

Ion Ratio Lower Upper

164 100

162 107.7 83.1 124.7

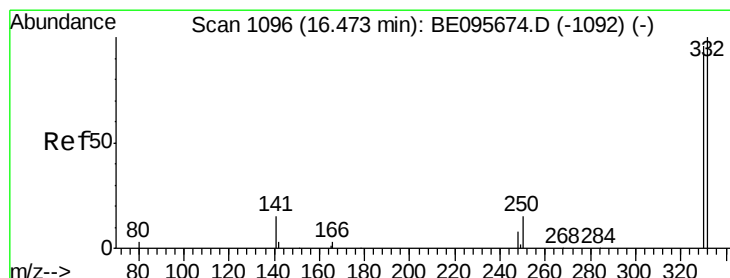
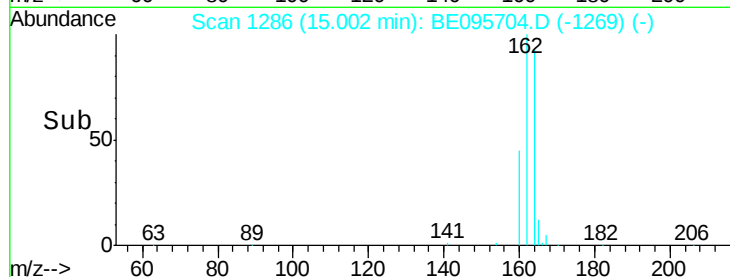
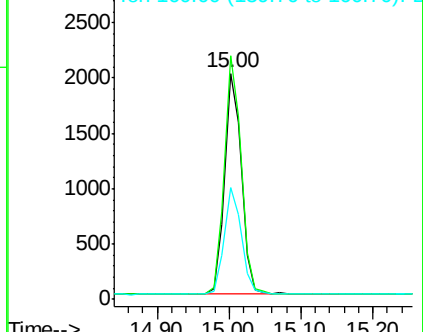
160 49.6 37.1 55.7



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: 0.127 ng

RT: 16.47 min Scan# 1409

Delta R.T. -0.00 min

Lab File: BE095704.D

Acq: 6 Mar 2018 19:11

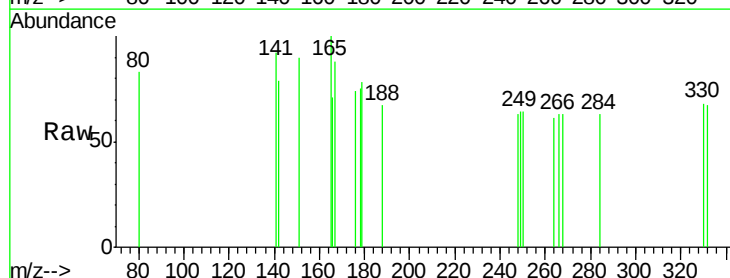
Tgt Ion:330 Resp: 17

Ion Ratio Lower Upper

330 100

332 111.8 152.7 229.1#

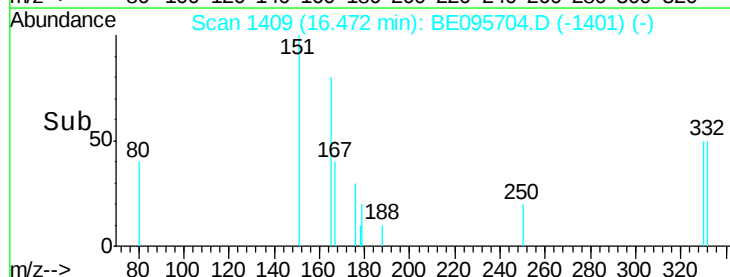
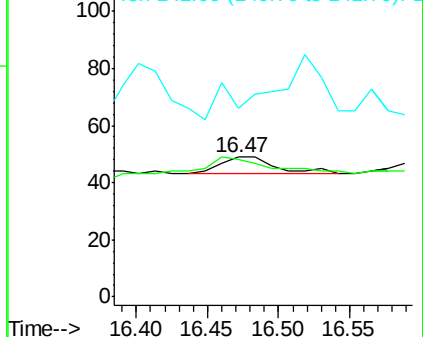
141 70.6 33.7 50.5#

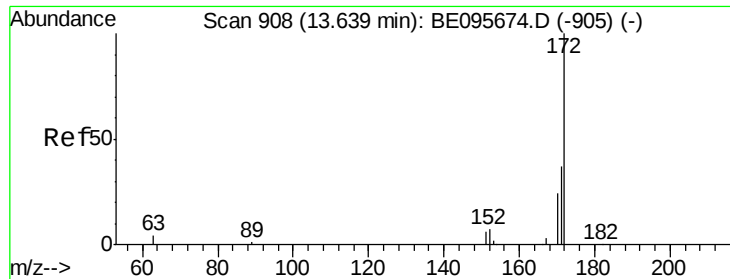


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

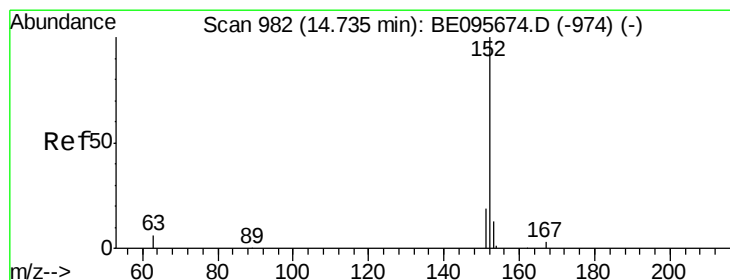
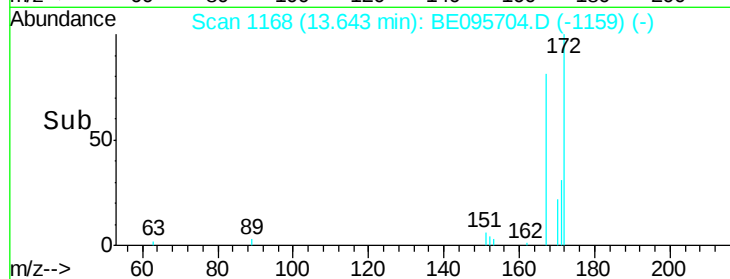
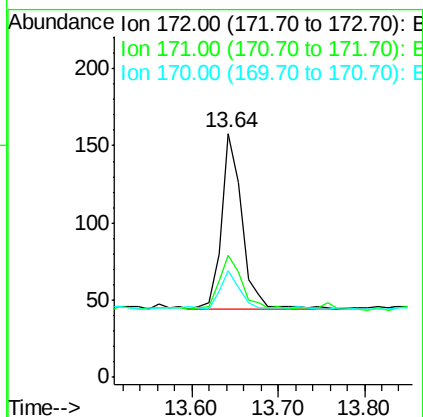
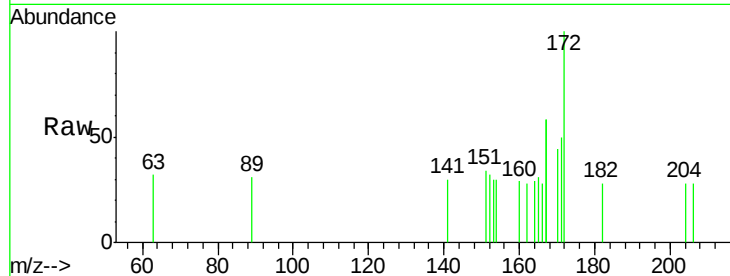




#15
2-Fluorobiphenyl
Concen: 0.013 ng
RT: 13.64 min Scan# 1168
Delta R.T. 0.00 min
Lab File: BE095704.D
Acq: 6 Mar 2018 19:11

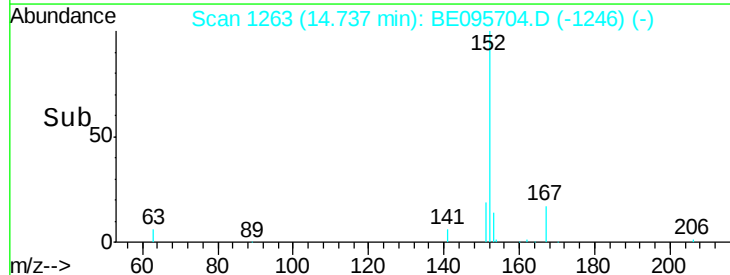
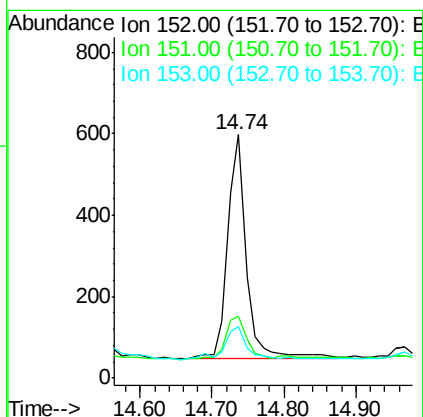
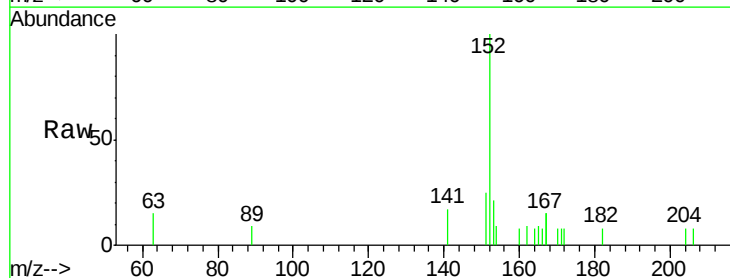
Instrument :
BNA_E
ClientSampleId :

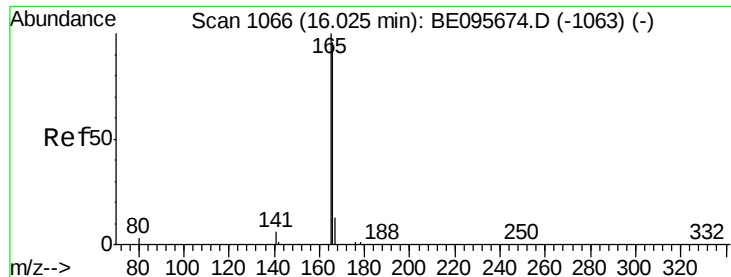
Tot Ion:172 Resp: 192
Ion Ratio Lower Upper
172 100
171 50.0 29.9 44.9#
170 43.7 21.8 32.8#



#16
Acenaphthylene
Concen: 0.055 ng
RT: 14.74 min Scan# 1263
Delta R.T. 0.00 min
Lab File: BE095704.D
Acq: 6 Mar 2018 19:11

Tgt Ion:152 Resp: 1007
Ion Ratio Lower Upper
152 100
151 21.8 15.7 23.5
153 18.2 10.5 15.7#





#18

Fluorene

Concen: 0.041 ng

RT: 16.03 min Scan# 1371

Delta R.T. 0.00 min

Lab File: BE095704.D

Acq: 6 Mar 2018 19:11

Instrument :

BNA_E

ClientSampleId :

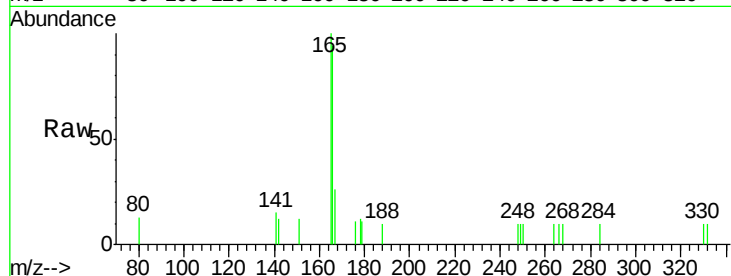
Tot Ion:166 Resp: 585

Ion Ratio Lower Upper

166 100

165 117.1 77.8 116.6#

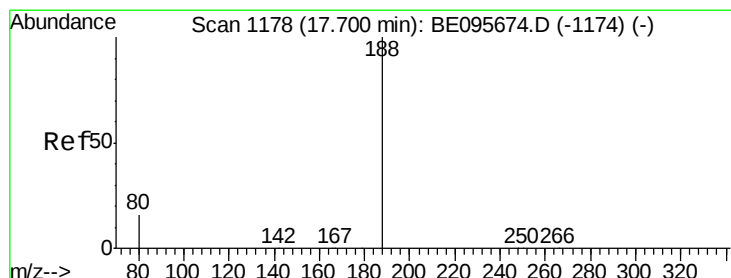
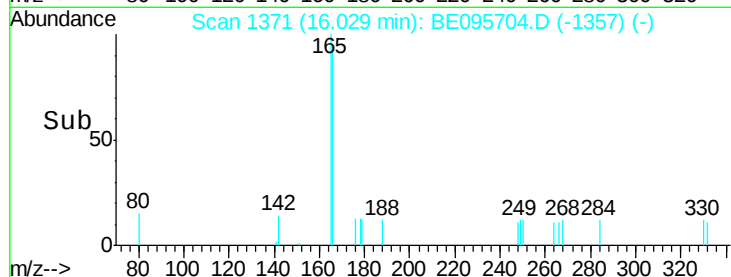
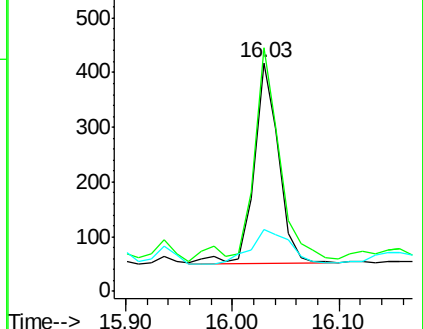
167 28.0 42.4 63.6#



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: 17.71 min Scan# 1515

Delta R.T. 0.01 min

Lab File: BE095704.D

Acq: 6 Mar 2018 19:11

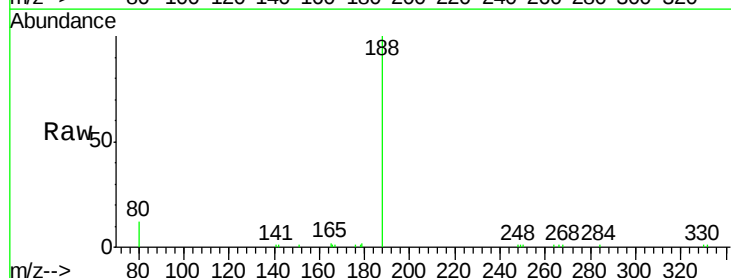
Tgt Ion:188 Resp: 7380

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

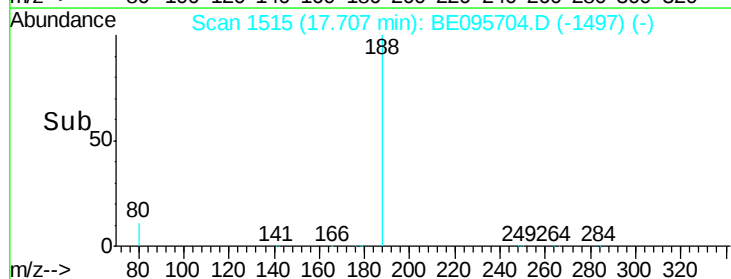
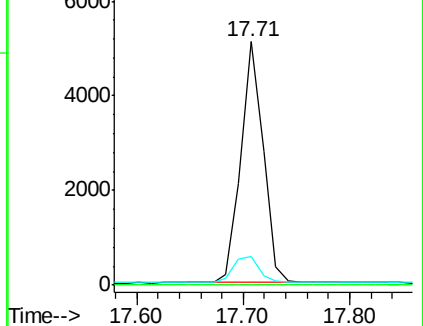
80 11.8 3.6 5.4#

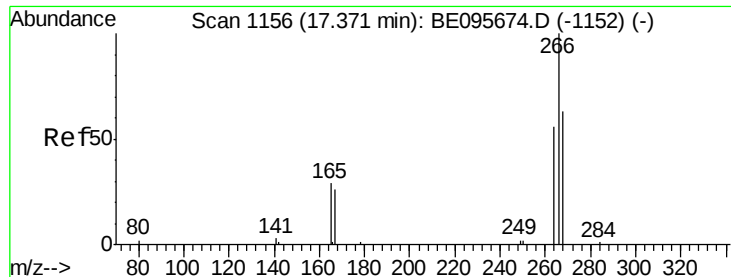


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

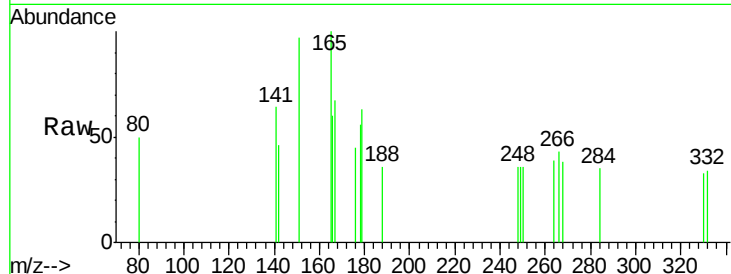




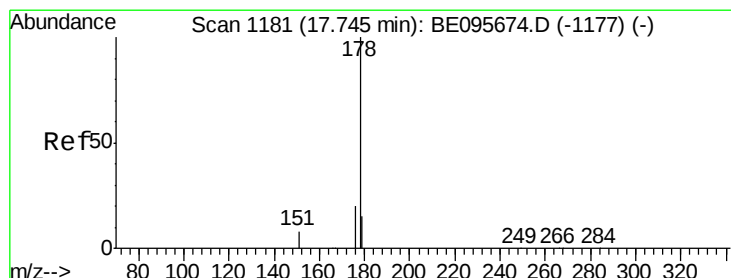
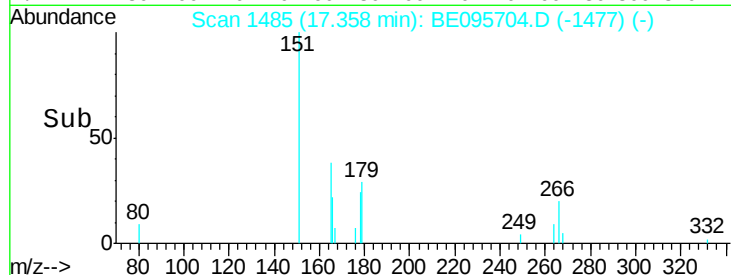
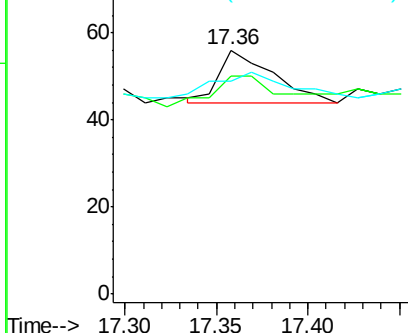
#22
 Pentachlorophenol
 Concen: 0.192 ng
 RT: 17.36 min Scan# 1485
 Delta R.T. -0.01 min
 Lab File: BE095704.D
 Acq: 6 Mar 2018 19:11

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:266 Resp: 24
 Ion Ratio Lower Upper
 266 100
 264 89.3 72.5 108.7
 268 87.5 73.8 110.6

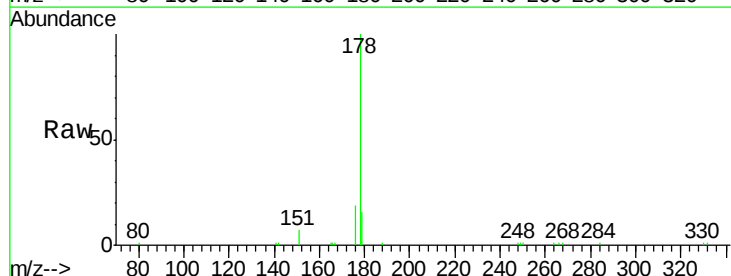


Abundance Ion 266.00 (265.70 to 266.70): E
 Ion 264.00 (263.70 to 264.70): E
 Ion 268.00 (267.70 to 268.70): E

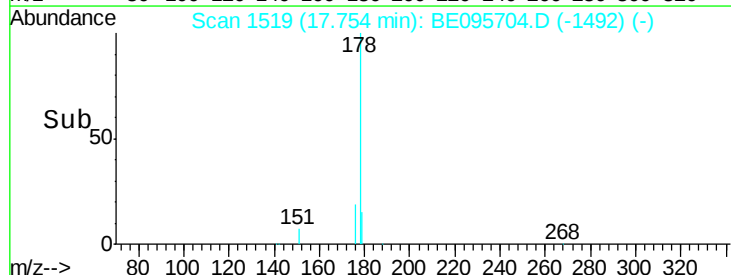
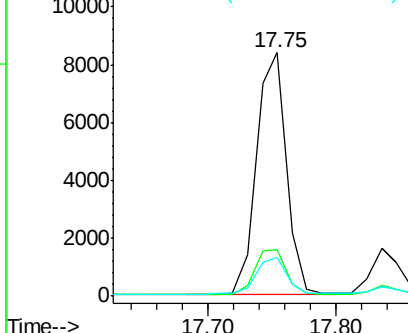


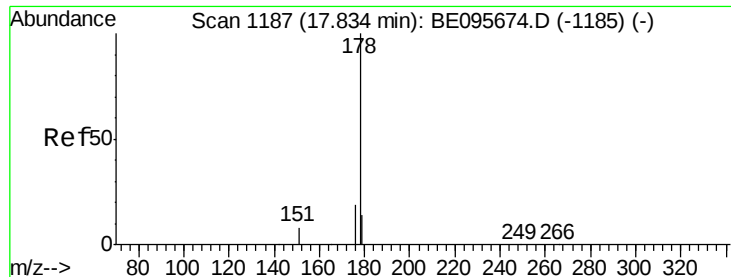
#23
 Phenanthrene
 Concen: 0.588 ng
 RT: 17.75 min Scan# 1519
 Delta R.T. 0.01 min
 Lab File: BE095704.D
 Acq: 6 Mar 2018 19:11

Tgt Ion:178 Resp: 13573
 Ion Ratio Lower Upper
 178 100
 176 19.6 15.1 22.7
 179 15.1 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





#24

Anthracene

Concen: 0.114 ng

RT: 17.84 min Scan# 1526

Delta R.T. 0.00 min

Lab File: BE095704.D

Acq: 6 Mar 2018 19:11

Instrument :

BNA_E

ClientSampleId :

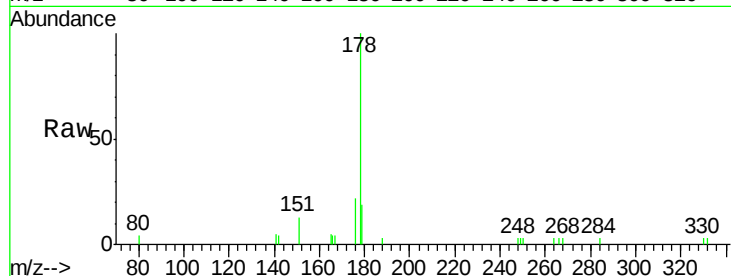
Tot Ion:178 Resp: 2424

Ion Ratio Lower Upper

178 100

176 19.7 12.8 19.2#

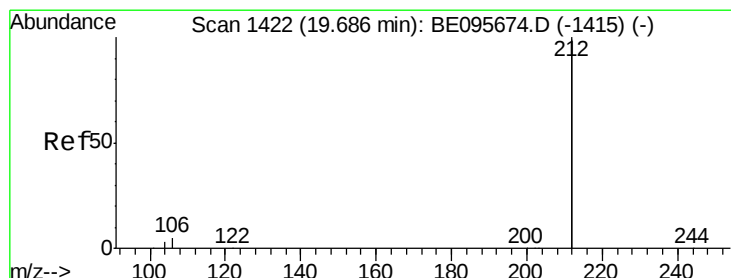
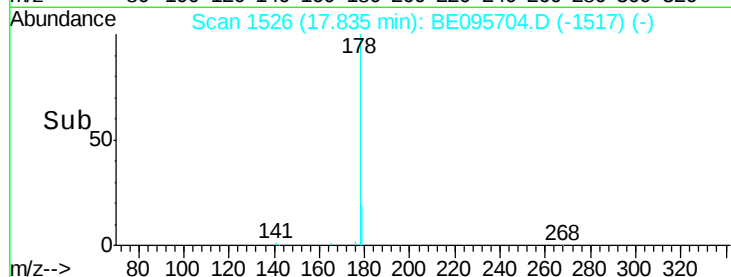
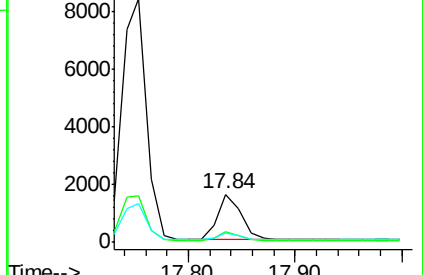
179 14.2 13.0 19.6



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



#25

Fluoranthene-d10

Concen: 0.010 ng

RT: 19.69 min Scan# 1829

Delta R.T. 0.00 min

Lab File: BE095704.D

Acq: 6 Mar 2018 19:11

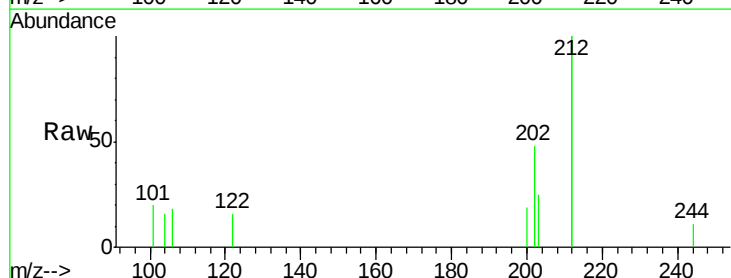
Tgt Ion:212 Resp: 993

Ion Ratio Lower Upper

212 100

106 4.7 2.8 4.2#

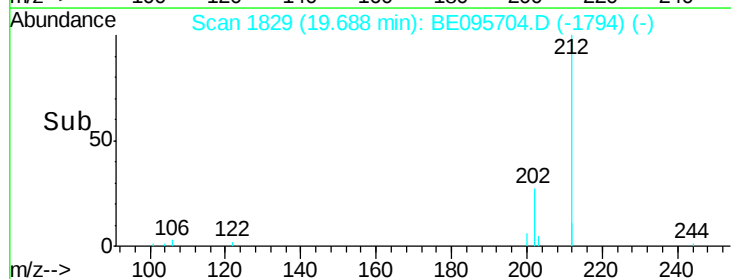
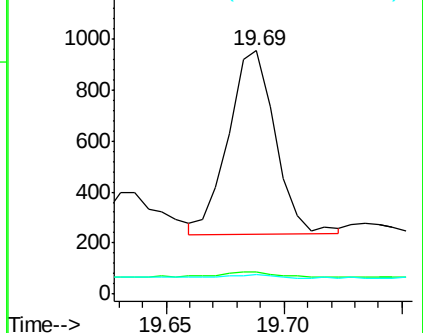
104 1.7 1.6 2.4

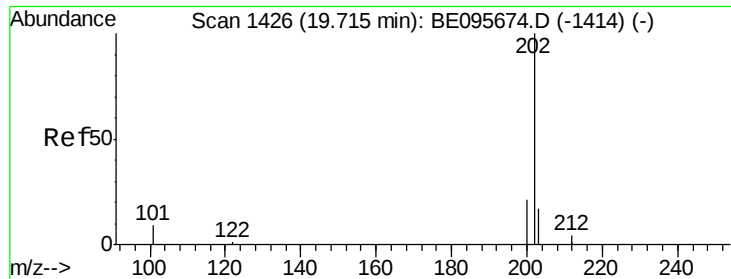


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

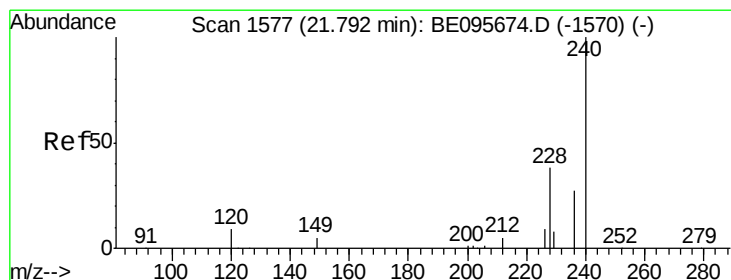
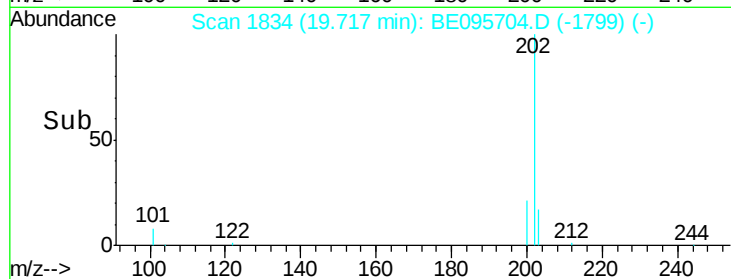
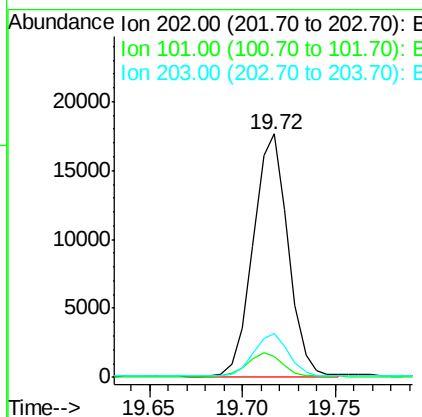
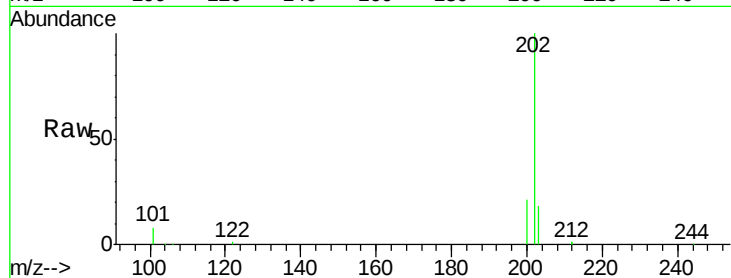




#26
 Fluoranthene
 Concen: 0.814 ng
 RT: 19.72 min Scan# 1834
 Delta R.T. 0.00 min
 Lab File: BE095704.D
 Acq: 6 Mar 2018 19:11

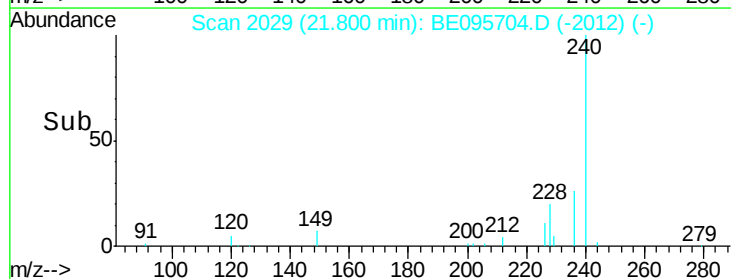
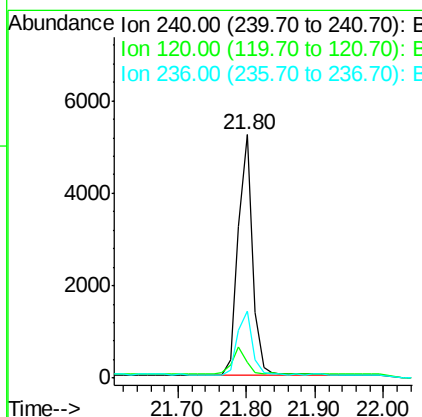
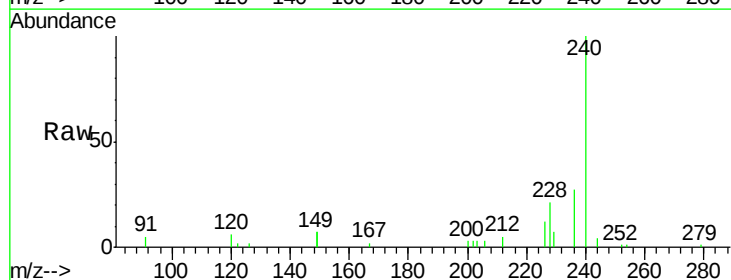
Instrument :
 BNA_E
 ClientSampleId :

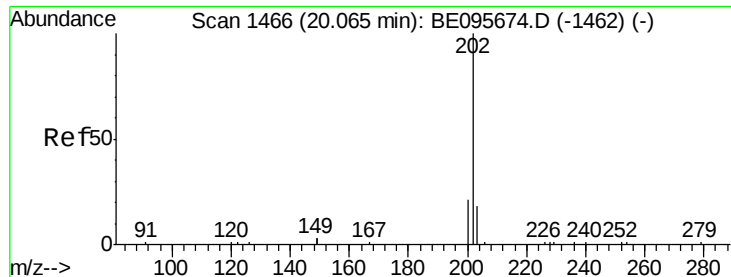
Tot Ion:202 Resp: 23100
 Ion Ratio Lower Upper
 202 100
 101 9.8 9.8 14.8#
 203 17.5 13.7 20.5



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.80 min Scan# 2029
 Delta R.T. 0.01 min
 Lab File: BE095704.D
 Acq: 6 Mar 2018 19:11

Tgt Ion:240 Resp: 7591
 Ion Ratio Lower Upper
 240 100
 120 6.5 5.5 8.3
 236 27.3 20.7 31.1

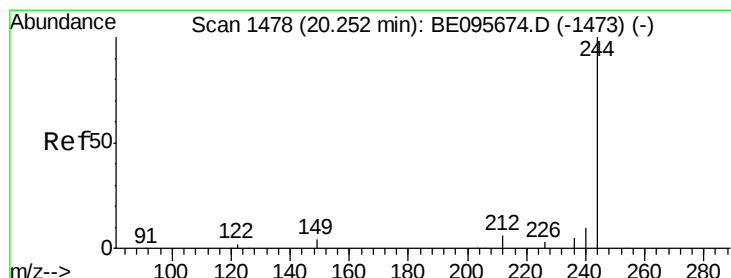
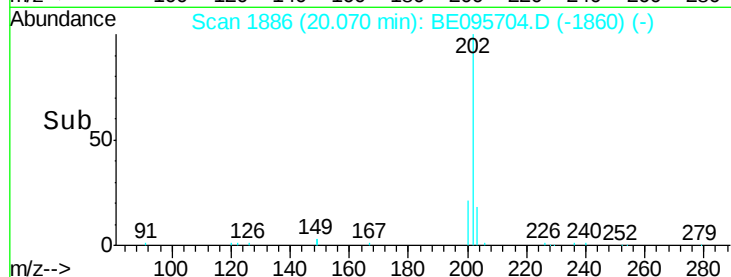
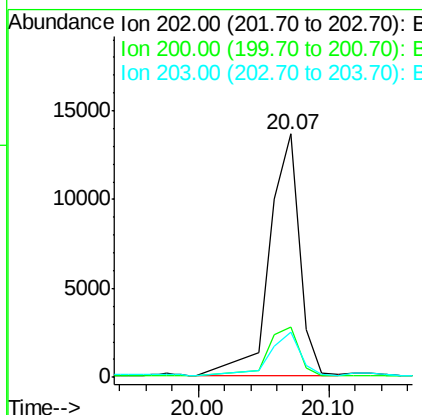
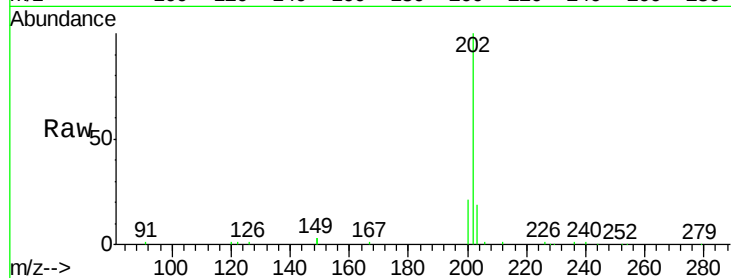




#28
 Pvrene
 Concen: 0.868 ng
 RT: 20.07 min Scan# 1886
 Delta R.T. 0.01 min
 Lab File: BE095704.D
 Acq: 6 Mar 2018 19:11

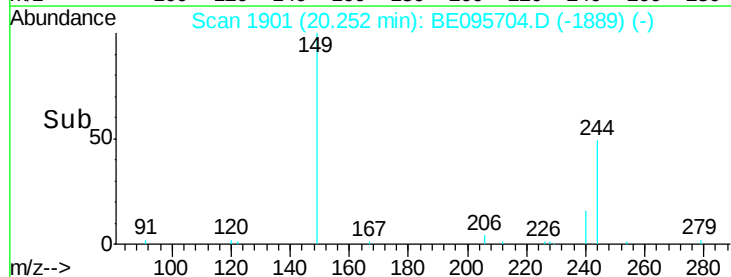
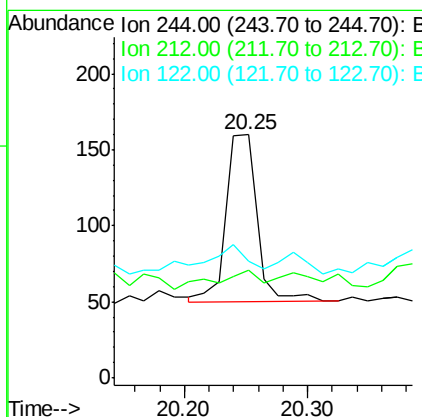
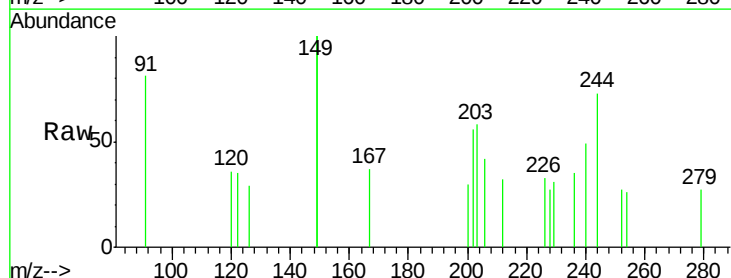
Instrument :
 BNA_E
 ClientSampleId :

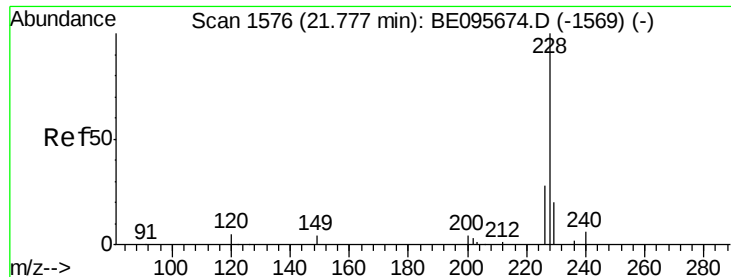
Tot Ion:202 Resp: 26941
 Ion Ratio Lower Upper
 202 100
 200 19.0 16.6 25.0
 203 18.1 13.8 20.8



#29
 Terphenyl-d14
 Concen: 0.013 ng
 RT: 20.25 min Scan# 1901
 Delta R.T. 0.00 min
 Lab File: BE095704.D
 Acq: 6 Mar 2018 19:11

Tgt Ion:244 Resp: 191
 Ion Ratio Lower Upper
 244 100
 212 44.4 25.4 38.0#
 122 48.1 8.1 12.1#

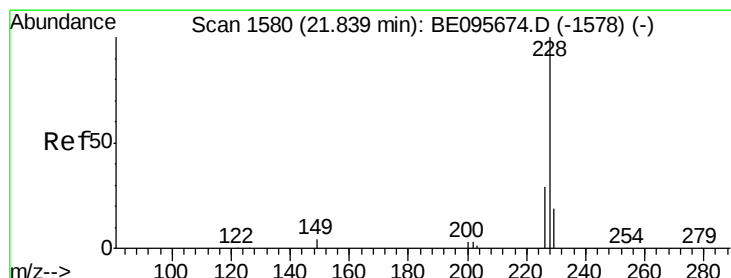
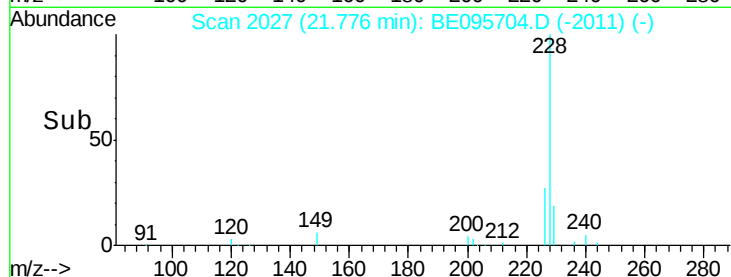
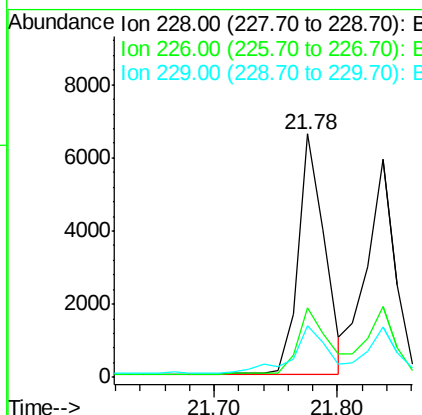
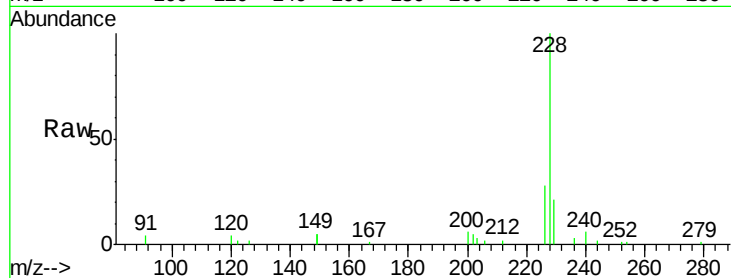




#30
Benzo(a)anthracene
Concen: 0.393 ng
RT: 21.78 min Scan# 2027
Delta R.T. -0.00 min
Lab File: BE095704.D
Acq: 6 Mar 2018 19:11

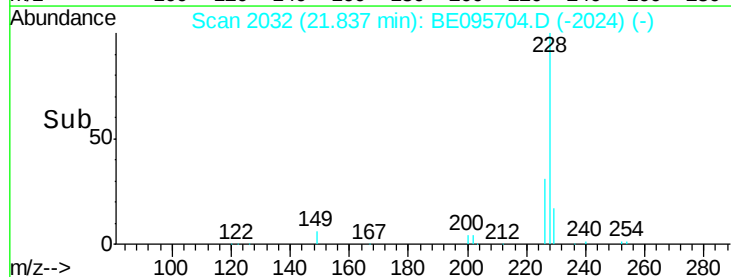
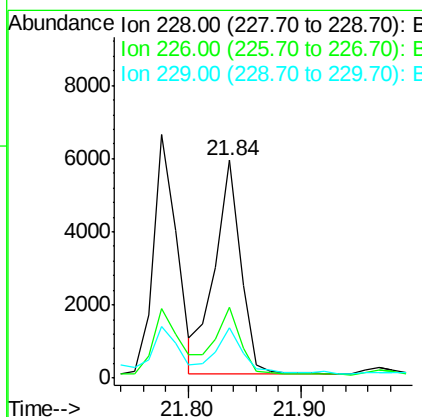
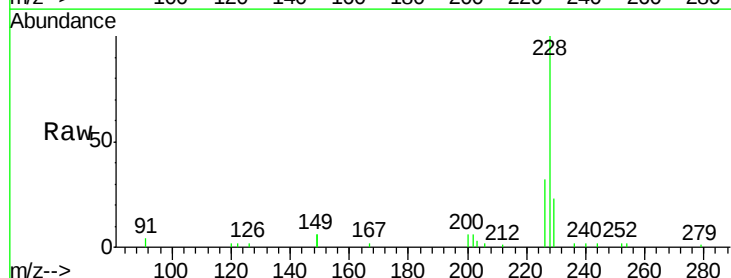
Instrument :
BNA_E
ClientSampleId :

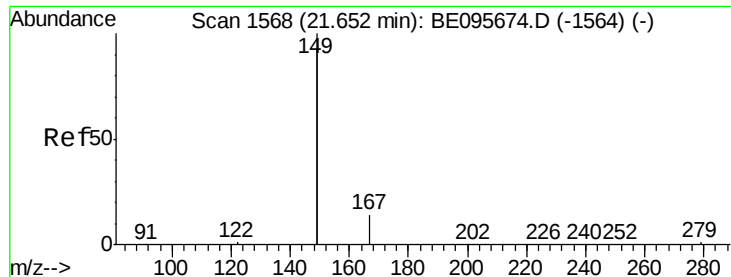
Tot Ion:228 Resp: 9729
Ion Ratio Lower Upper
228 100
226 28.4 24.0 36.0
229 21.2 16.0 24.0



#31
Chrysene
Concen: 0.384 ng
RT: 21.84 min Scan# 2032
Delta R.T. -0.00 min
Lab File: BE095704.D
Acq: 6 Mar 2018 19:11

Tgt Ion:228 Resp: 9455
Ion Ratio Lower Upper
228 100
226 32.3 24.0 36.0
229 22.9 16.0 24.0

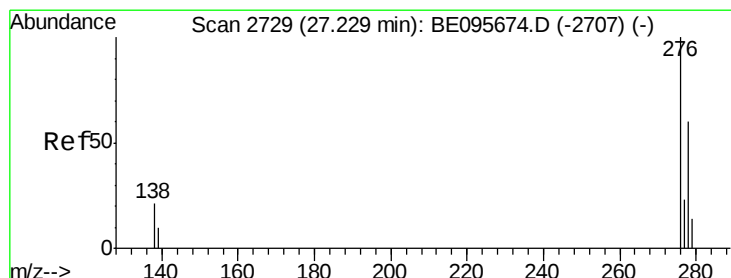
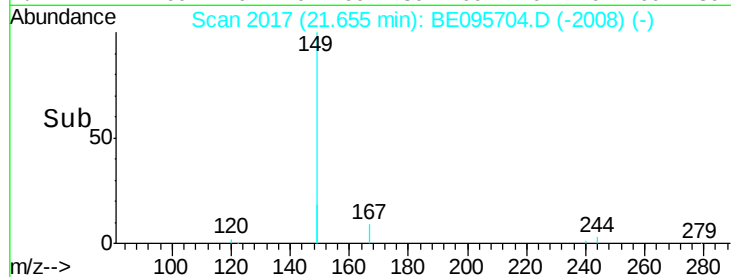
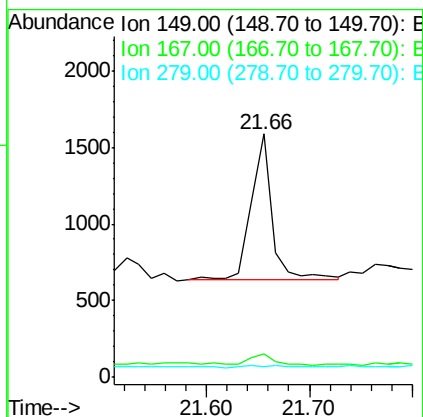
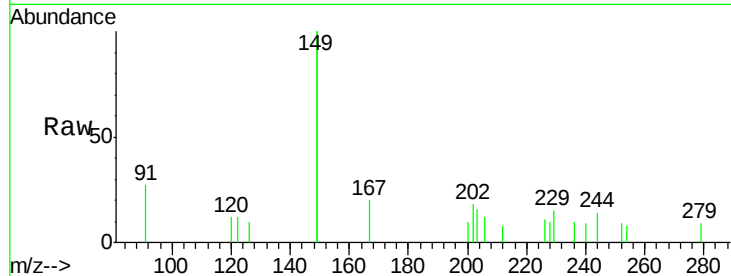




#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.031 ng
 RT: 21.66 min Scan# 2017
 Delta R.T. 0.00 min
 Lab File: BE095704.D
 Acq: 6 Mar 2018 19:11

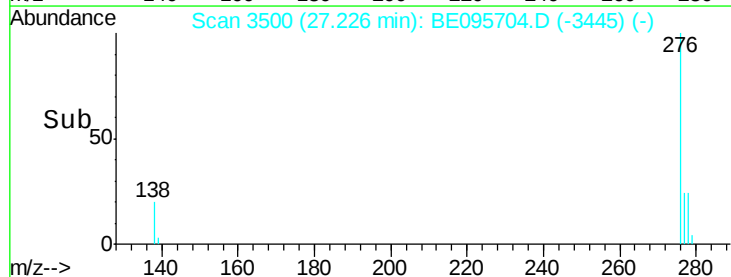
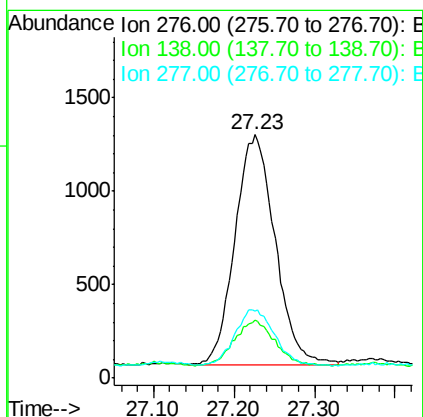
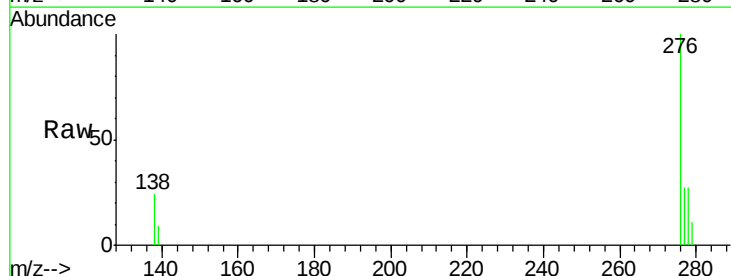
Instrument :
 BNA_E
 ClientSampled :

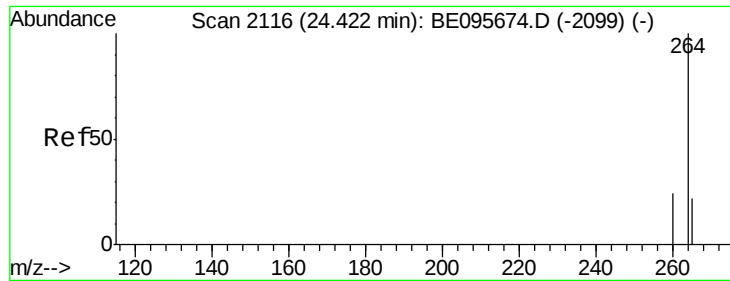
Tot Ion:149 Resp: 1357
 Ion Ratio Lower Upper
 149 100
 167 8.0 5.4 8.0
 279 2.9 0.7 1.1#



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.178 ng
 RT: 27.23 min Scan# 3500
 Delta R.T. -0.00 min
 Lab File: BE095704.D
 Acq: 6 Mar 2018 19:11

Tgt Ion:276 Resp: 4246
 Ion Ratio Lower Upper
 276 100
 138 19.6 22.5 33.7#
 277 24.4 19.9 29.9

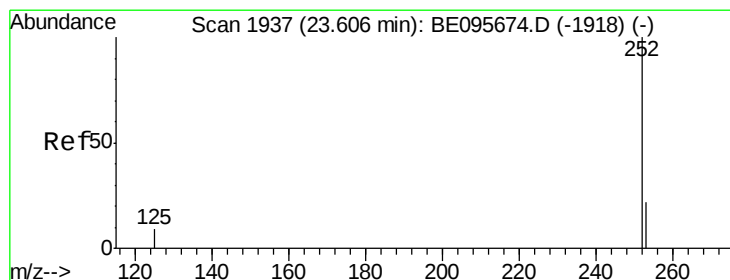
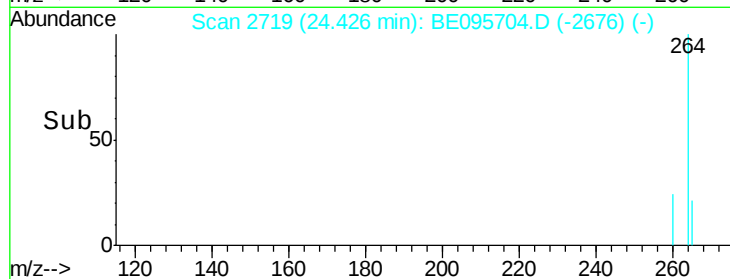
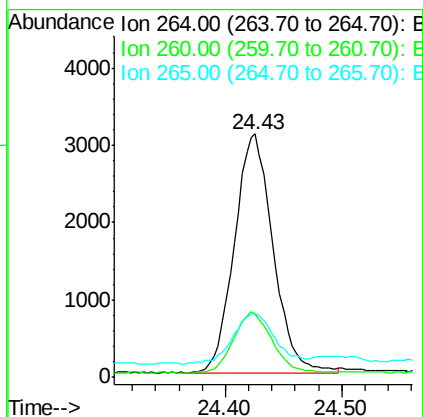
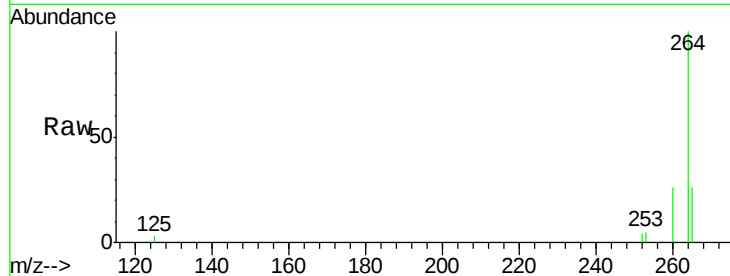




#34
Pervlene-d12
Concen: 0.400 ng
RT: 24.43 min Scan# 2719
Delta R.T. 0.00 min
Lab File: BE095704.D
Acq: 6 Mar 2018 19:11

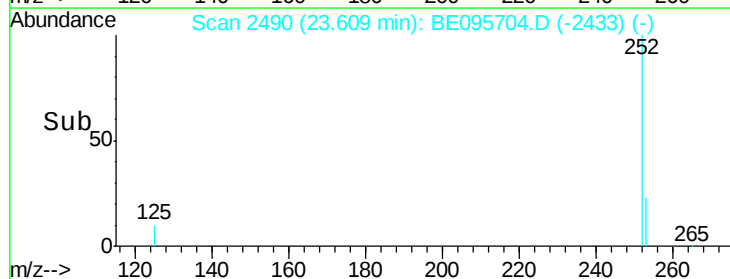
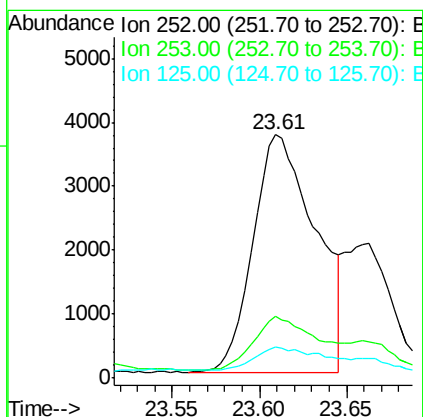
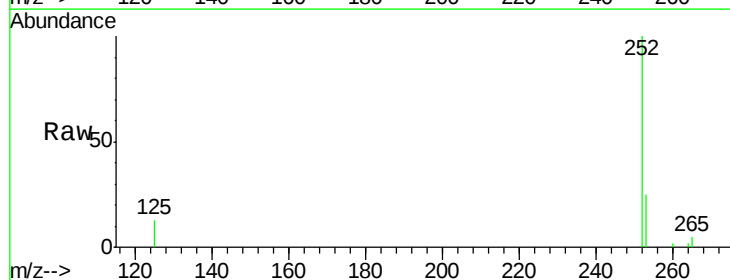
Instrument :
BNA_E
ClientSampleId :

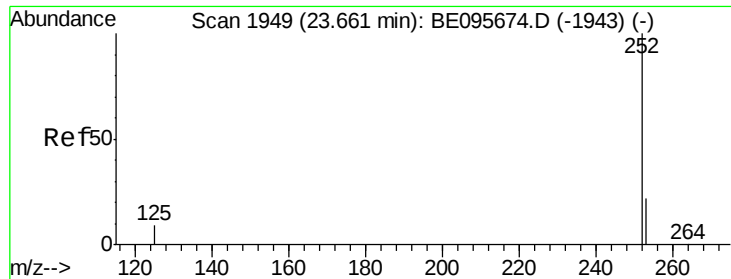
Tot Ion:264 Resp: 7118
Ion Ratio Lower Upper
264 100
260 25.8 20.5 30.7
265 26.5 22.8 34.2



#35
Benzo(b)fluoranthene
Concen: 0.366 ng
RT: 23.61 min Scan# 2490
Delta R.T. 0.00 min
Lab File: BE095704.D
Acq: 6 Mar 2018 19:11

Tgt Ion:252 Resp: 9271
Ion Ratio Lower Upper
252 100
253 25.3 20.0 30.0
125 12.6 16.0 24.0#

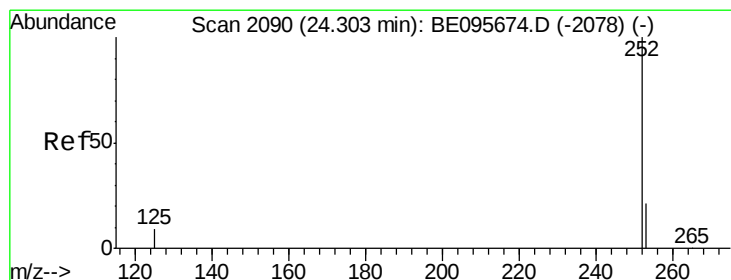
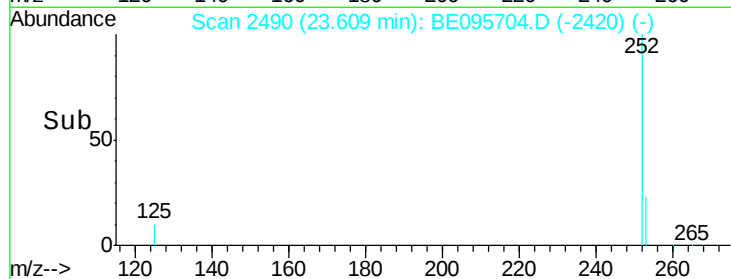
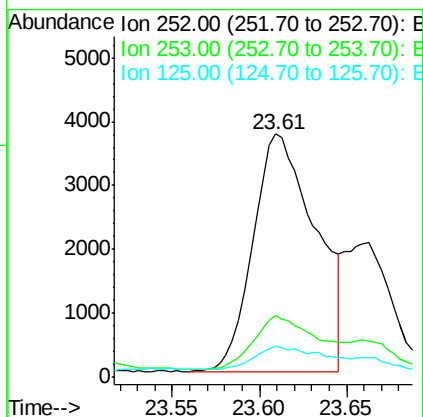
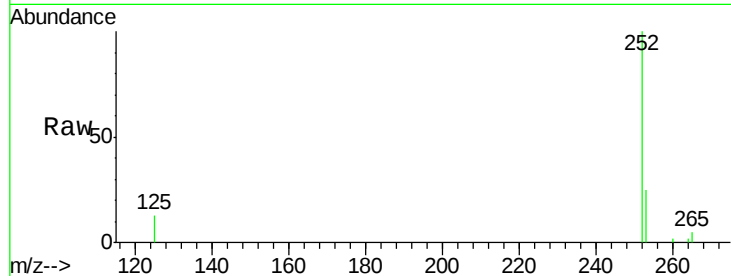




#36
Benzo(k)fluoranthene
Concen: 0.368 ng
RT: 23.61 min Scan# 2490
Delta R.T. -0.05 min
Lab File: BE095704.D
Acq: 6 Mar 2018 19:11

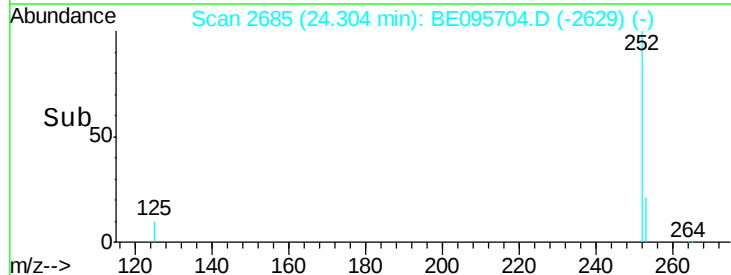
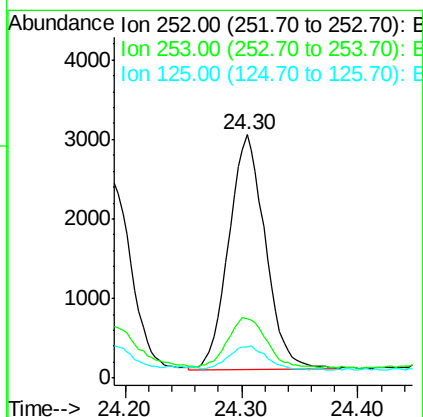
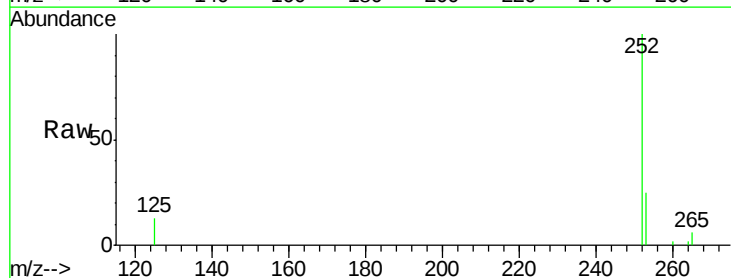
Instrument :
BNA_E
ClientSampleId :

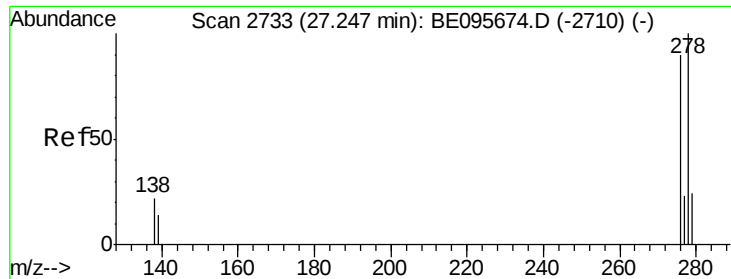
Tot Ion:252 Resp: 9271
Ion Ratio Lower Upper
252 100
253 25.3 16.0 24.0#
125 12.6 8.0 12.0#



#37
Benzo(a)pyrene
Concen: 0.281 ng
RT: 24.30 min Scan# 2685
Delta R.T. 0.00 min
Lab File: BE095704.D
Acq: 6 Mar 2018 19:11

Tgt Ion:252 Resp: 6426
Ion Ratio Lower Upper
252 100
253 24.5 16.0 24.0#
125 13.0 12.0 18.0

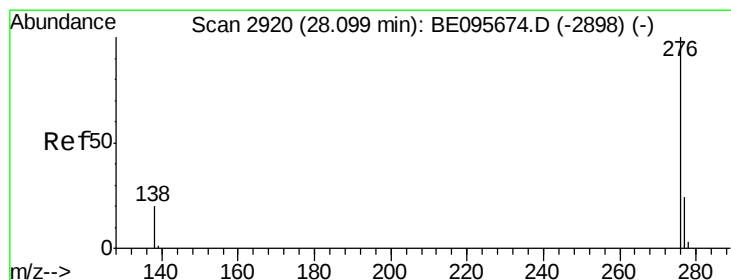
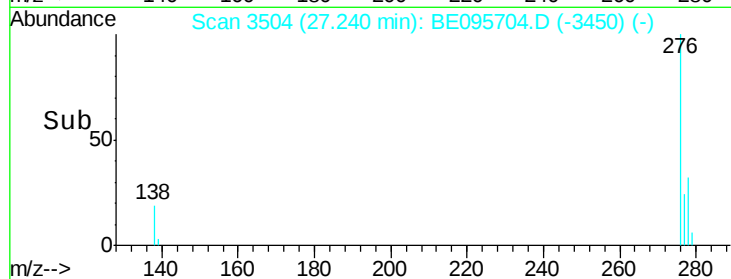
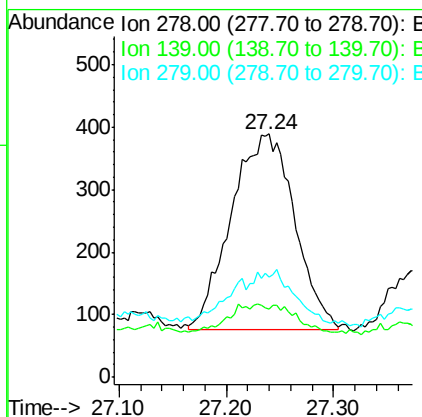
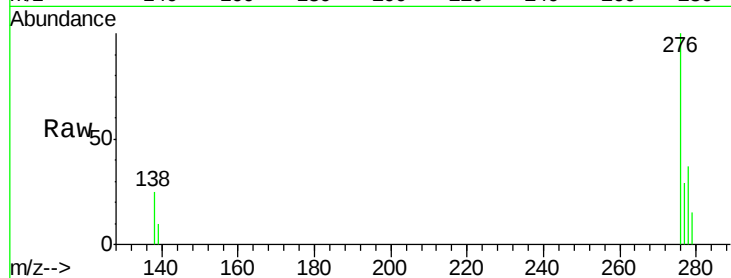




#38
Dibenzo(a,h)anthracene
Concen: 0.063 ng
RT: 27.24 min Scan# 3504
Delta R.T. -0.01 min
Lab File: BE095704.D
Acq: 6 Mar 2018 19:11

Instrument :
BNA_E
ClientSampleId :

Tot Ion:278 Resp: 1274
Ion Ratio Lower Upper
278 100
139 27.8 16.0 24.0#
279 41.1 20.0 30.0#



#39
Benzo(g,h,i)perylene
Concen: 0.232 ng
RT: 28.10 min Scan# 3744
Delta R.T. -0.00 min
Lab File: BE095704.D
Acq: 6 Mar 2018 19:11

Tgt Ion:276 Resp: 5048
Ion Ratio Lower Upper
276 100
277 27.6 16.0 24.0#
138 22.1 20.0 30.0

