

Data Path : Z:\HPCHEM1\BNA E\DATA\BE030618\
 Data File : BE095715.D
 Acq On : 7 Mar 2018 1:45
 Operator : SJ/JU
 Sample : J1811-11 20X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 07 03:04:11 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	1441	0.40	ng	0.00
7) Naphthalene-d8	11.27	136	5912	0.40	ng	0.00
13) Acenaphthene-d10	15.00	164	3504	0.40	ng	0.00
19) Phenanthrene-d10	17.71	188	7865	0.40	ng	0.00
27) Chrysene-d12	21.80	240	7861	0.40	ng	0.00
34) Perylene-d12	24.42	264	7508	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.92	112	52	0.01	ng	0.00
5) Phenol-d6	7.57	99	63	0.01	ng	0.01
8) Nitrobenzene-d5	9.61	82	81	0.01	ng	0.00
11) 2-Methylnaphthalene-d10	12.80	152	133	0.01	ng	0.00
14) 2,4,6-Tribromophenol	16.47	330	22	0.13	ng	0.00
15) 2-Fluorobiphenyl	13.64	172	185	0.01	ng	0.00
25) Fluoranthene-d10	19.69	212	960	0.01	ng	0.00
29) Terphenyl-d14	20.24	244	188	0.01	ng	-0.01

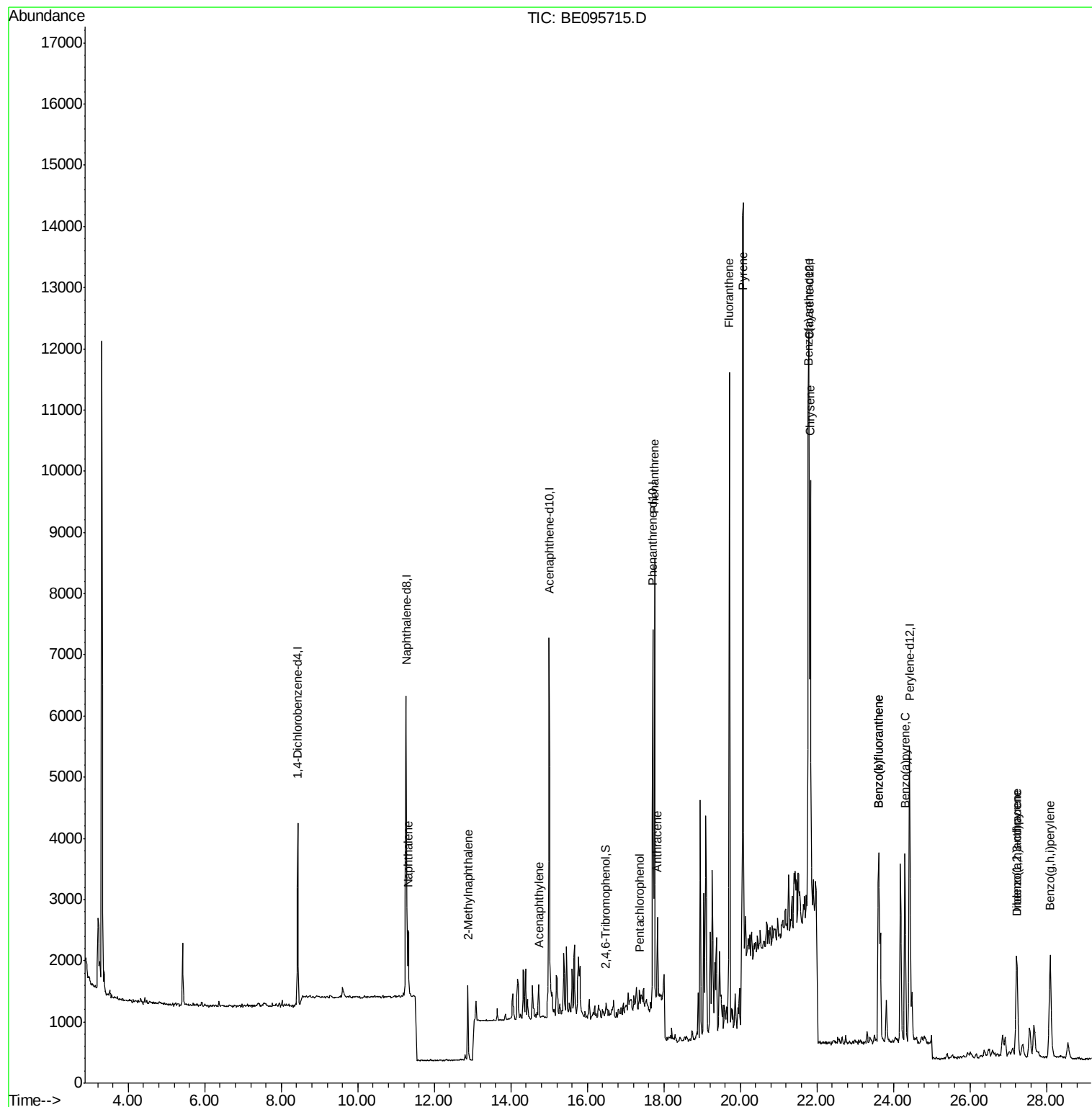
Target Compounds				Qvalue		
9) Naphthalene	11.32	128	1964	0.029	ng	# 90
12) 2-Methylnaphthalene	12.88	142	860	0.073	ng	95
16) Acenaphthylene	14.74	152	422	0.021	ng	# 80
22) Pentachlorophenol	17.37	266	2	0.180	ng	92
23) Phenanthrene	17.75	178	8711	0.354	ng	98
24) Anthracene	17.84	178	1511	0.067	ng	# 91
26) Fluoranthene	19.72	202	9792	0.324	ng	96
28) Pyrene	20.07	202	19220	0.598	ng	97
30) Benzo(a)anthracene	21.78	228	6983	0.272	ng	97
31) Chrysene	21.84	228	7042	0.276	ng	# 95
33) Indeno(1,2,3-cd)pyrene	27.23	276	3081	0.125	ng	# 93
35) Benzo(b)fluoranthene	23.61	252	6284	0.235	ng	# 94
36) Benzo(k)fluoranthene	23.61	252	6284	0.236	ng	# 89
37) Benzo(a)pyrene	24.30	252	5226	0.217	ng	# 91
38) Dibenzo(a,h)anthracene	27.24	278	1155	0.054	ng	# 64
39) Benzo(g,h,i)perylene	28.10	276	4167	0.181	ng	# 92

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

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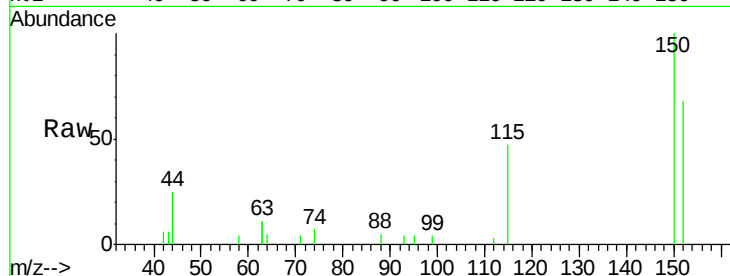


#1

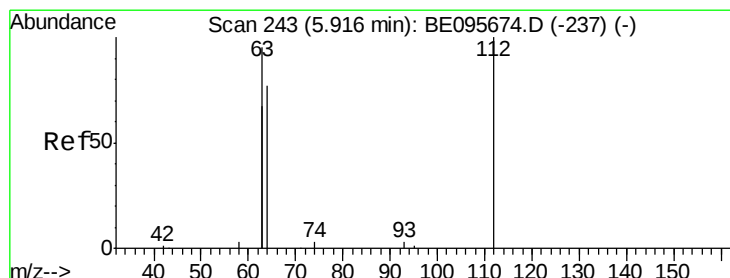
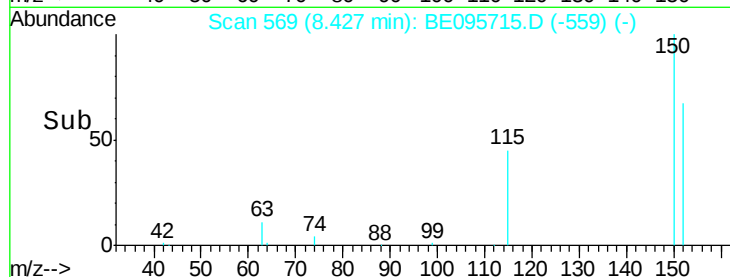
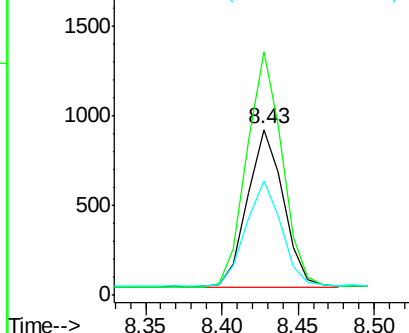
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.43 min Scan# 569
Delta R.T. -0.01 min
Lab File: BE095715.D
Acq: 7 Mar 2018 1:45

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 1441
Ion Ratio Lower Upper
152 100
150 146.8 117.2 175.8
115 69.3 57.0 85.6



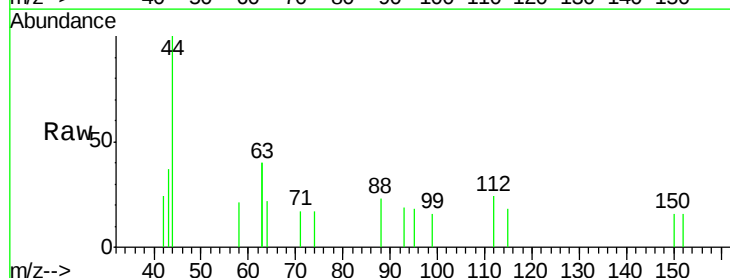
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



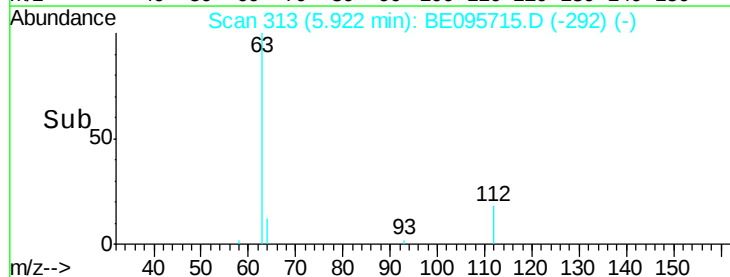
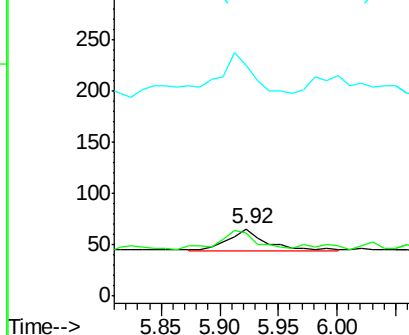
#4

2-Fluorophenol
Concen: 0.014 ng
RT: 5.92 min Scan# 313
Delta R.T. 0.01 min
Lab File: BE095715.D
Acq: 7 Mar 2018 1:45

Tgt Ion:112 Resp: 52
Ion Ratio Lower Upper
112 100
64 73.1 60.1 90.1
63 151.9 116.8 175.2



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: 0.012 ng

RT: 7.57 min Scan# 481

Delta R.T. 0.01 min

Lab File: BE095715.D

Acq: 7 Mar 2018 1:45

Instrument :

BNA_E

ClientSampleId :

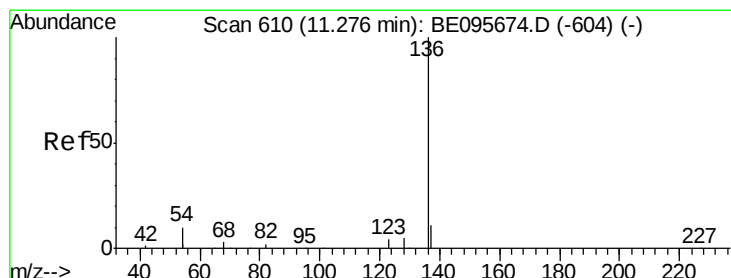
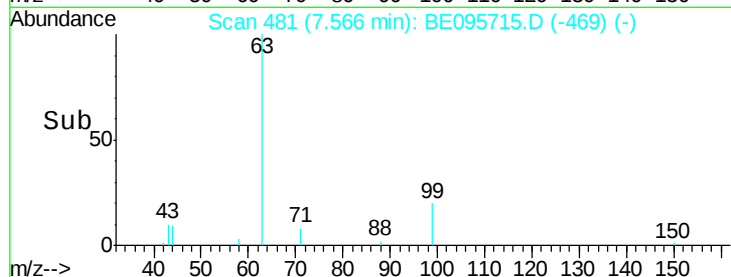
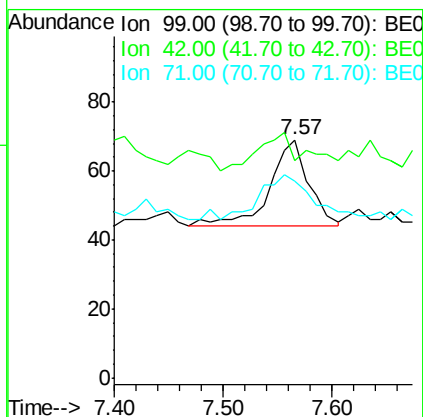
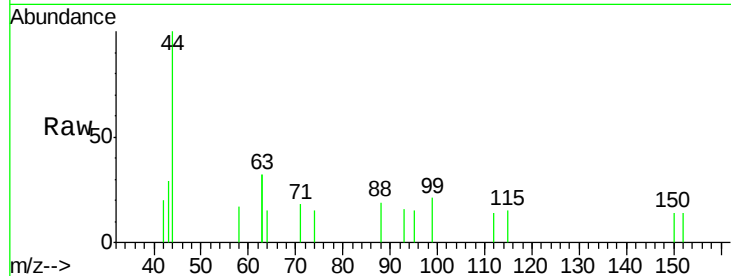
Tot Ion: 99 Resp: 63

Ion Ratio Lower Upper

99 100

42 55.6 20.2 30.2#

71 65.1 28.4 42.6#



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.27 min Scan# 785

Delta R.T. -0.01 min

Lab File: BE095715.D

Acq: 7 Mar 2018 1:45

Tgt Ion: 136 Resp: 5912

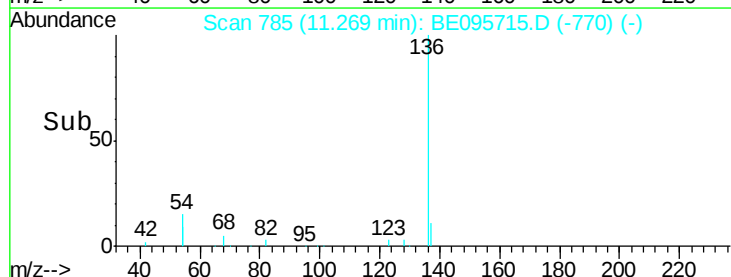
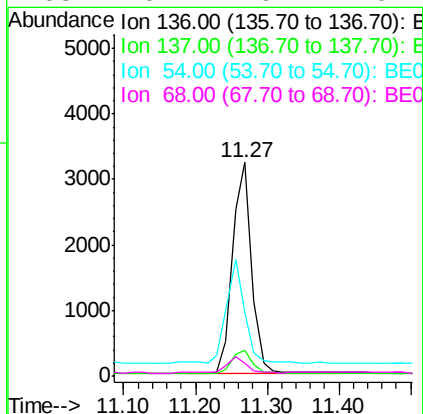
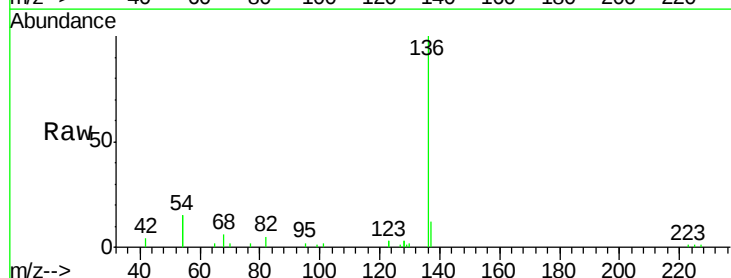
Ion Ratio Lower Upper

136 100

137 12.1 9.5 14.3

54 30.2 29.1 43.7

68 6.2 6.2 9.2

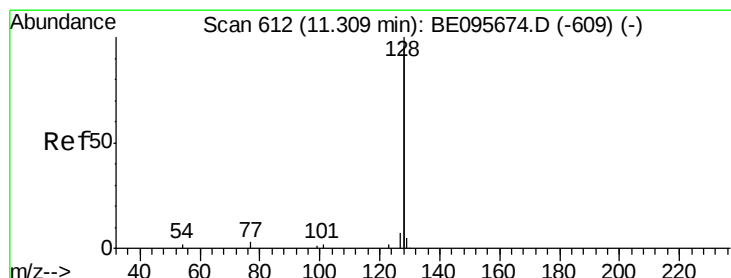
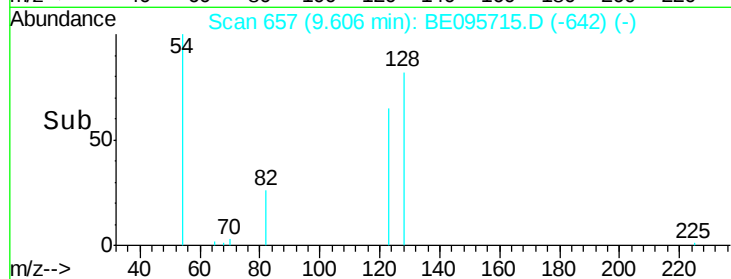
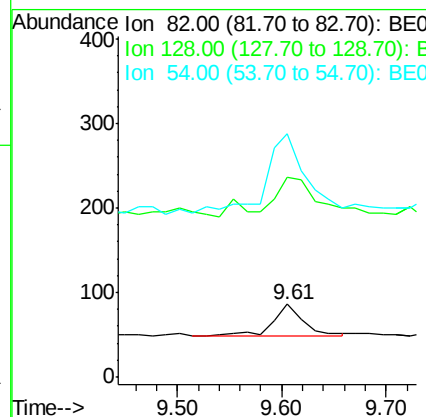
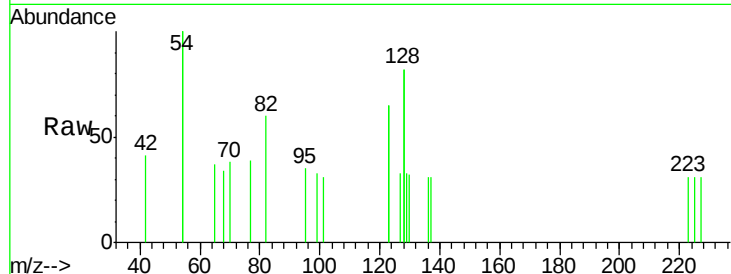




#8
 Nitrobenzene-d5
 Concen: 0.013 ng
 RT: 9.61 min Scan# 657
 Delta R.T. -0.01 min
 Lab File: BE095715.D
 Acq: 7 Mar 2018 1:45

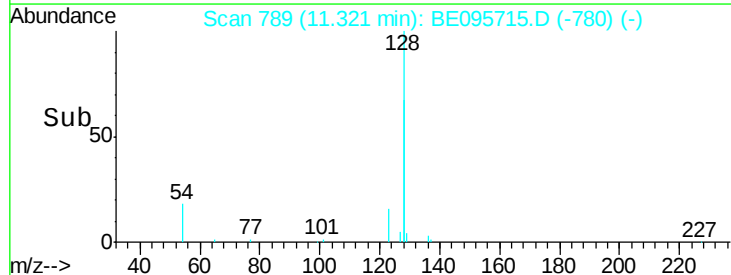
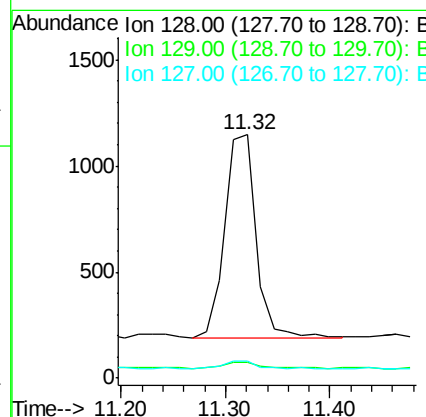
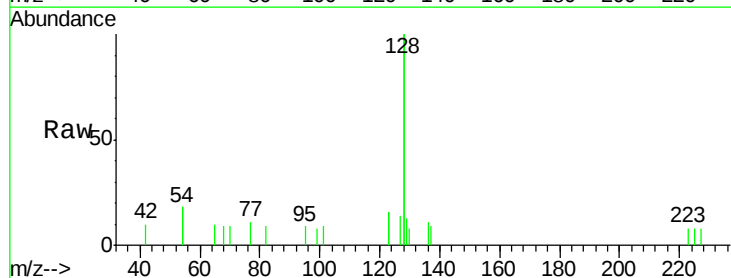
Instrument :
 BNA_E
 ClientSampleId :

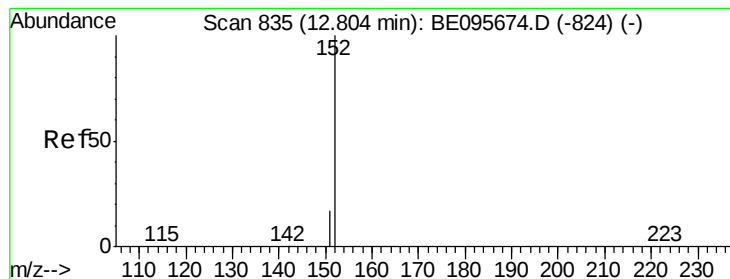
Tot Ion	Ratio	Lower	Upper
82	100		
128	274.4	150.0	225.0#
54	334.9	154.2	231.4#



#9
 Naphthalene
 Concen: 0.029 ng
 RT: 11.32 min Scan# 789
 Delta R.T. 0.01 min
 Lab File: BE095715.D
 Acq: 7 Mar 2018 1:45

Tgt Ion	Ratio	Lower	Upper
128	100		
129	6.4	2.6	3.8#
127	6.8	2.8	4.2#





#11

2-Methylnaphthalene-d10

Concen: 0.013 ng

RT: 12.80 min Scan# 1073

Delta R.T. -0.00 min

Lab File: BE095715.D

Acq: 7 Mar 2018 1:45

Instrument :

BNA_E

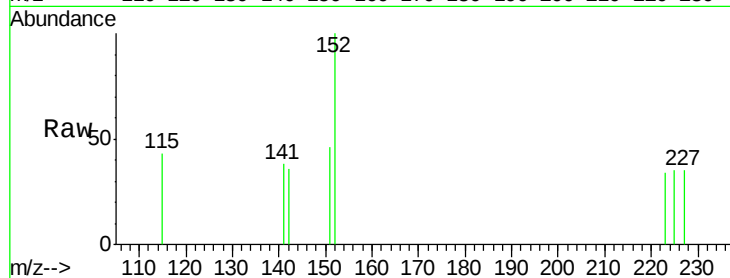
ClientSampleId :

Tot Ion:152 Resp: 133

Ion Ratio Lower Upper

152 100

151 26.3 15.4 23.0#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

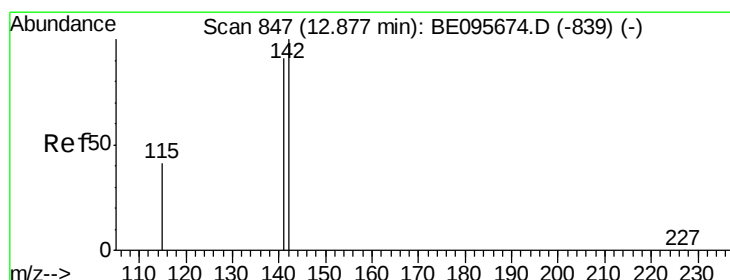
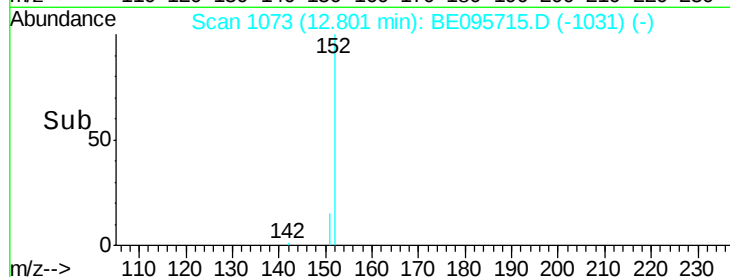
12.80

100

50

0

Time--> 12.70 12.75 12.80 12.85



#12

2-Methylnaphthalene

Concen: 0.073 ng

RT: 12.88 min Scan# 1089

Delta R.T. -0.00 min

Lab File: BE095715.D

Acq: 7 Mar 2018 1:45

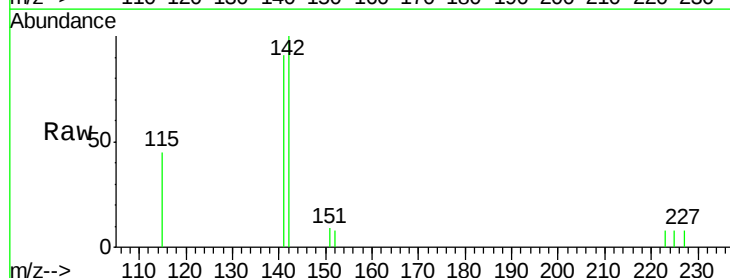
Tgt Ion:142 Resp: 860

Ion Ratio Lower Upper

142 100

141 91.0 70.4 105.6

115 44.6 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

800

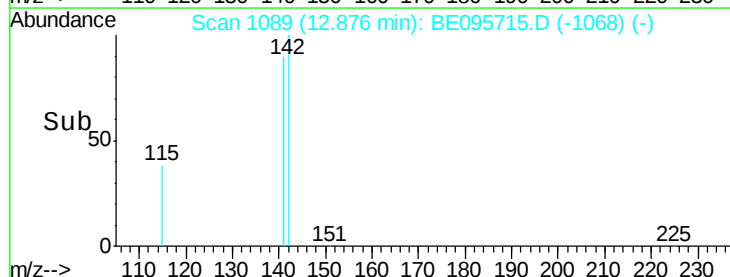
600

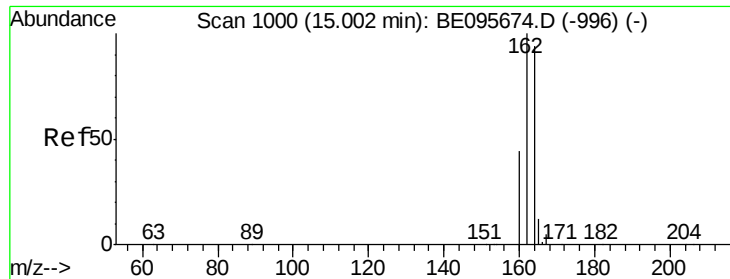
400

200

0

Time--> 12.80 12.85 12.90 12.95





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 15.00 min Scan# 1286

Delta R.T. -0.00 min

Lab File: BE095715.D

Acq: 7 Mar 2018 1:45

Instrument :

BNA_E

ClientSampleId :

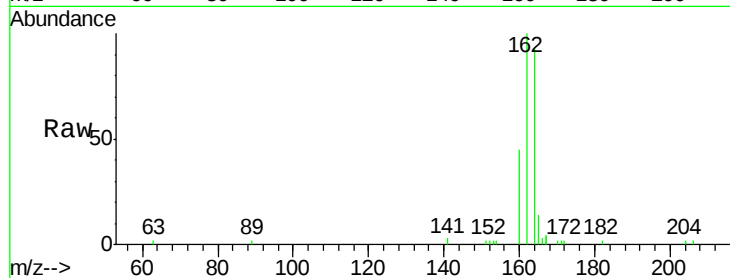
Tot Ion:164 Resp: 3504

Ion Ratio Lower Upper

164 100

162 107.4 83.1 124.7

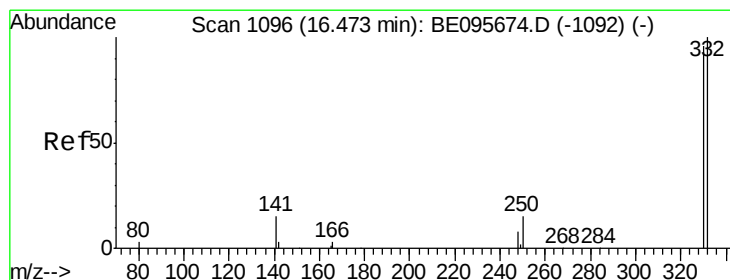
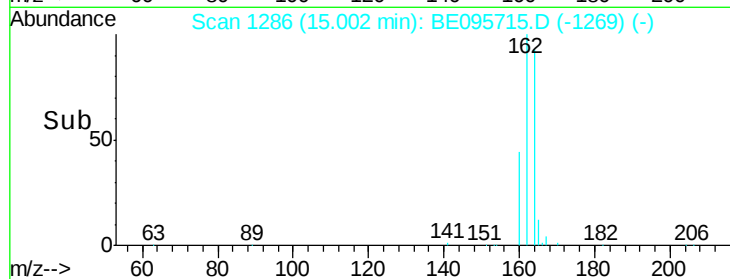
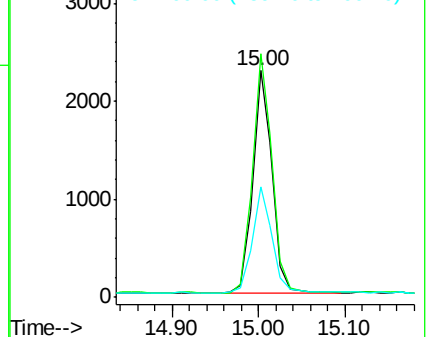
160 48.9 37.1 55.7



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: 0.129 ng

RT: 16.47 min Scan# 1409

Delta R.T. -0.00 min

Lab File: BE095715.D

Acq: 7 Mar 2018 1:45

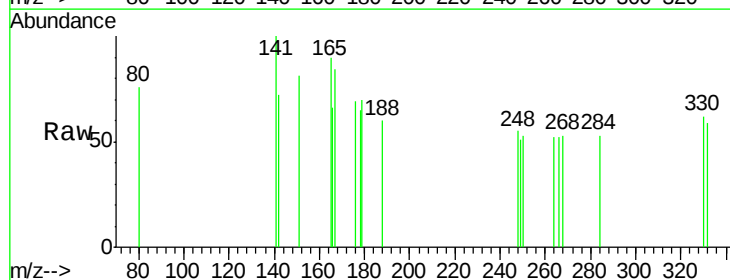
Tgt Ion:330 Resp: 22

Ion Ratio Lower Upper

330 100

332 100.0 152.7 229.1#

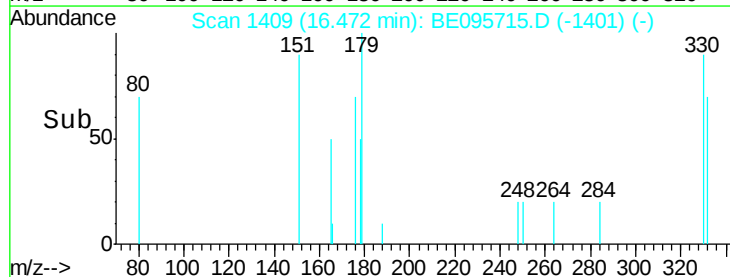
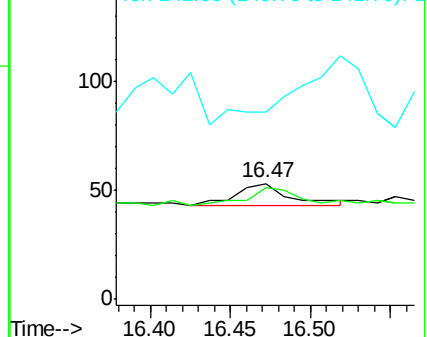
141 0.0 33.7 50.5#

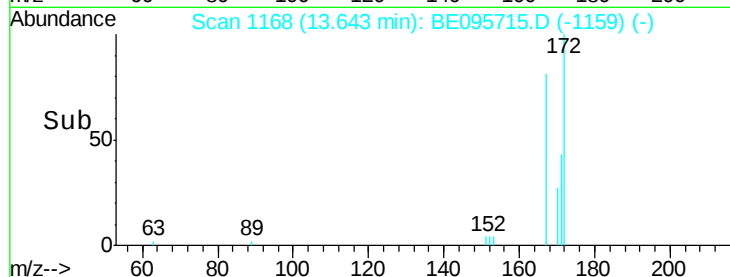
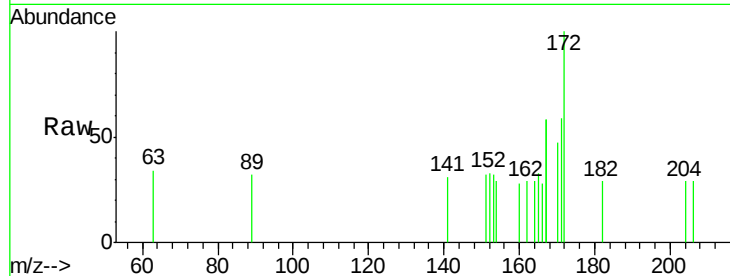
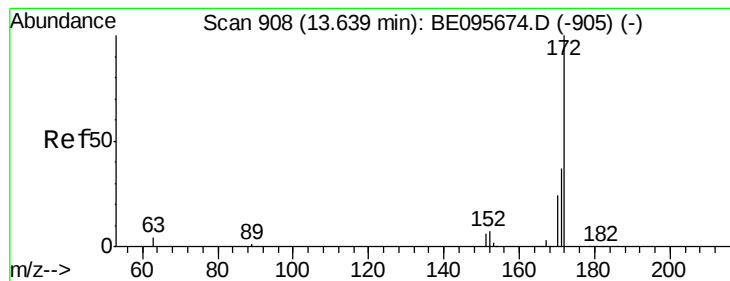


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.012 ng

RT: 13.64 min Scan# 1168

Delta R.T. 0.00 min

Lab File: BE095715.D

Acq: 7 Mar 2018 1:45

Instrument :

BNA_E

ClientSampled :

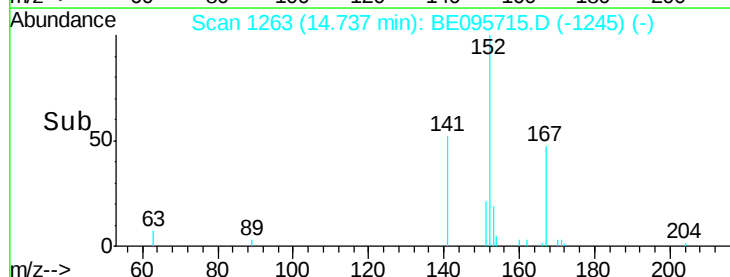
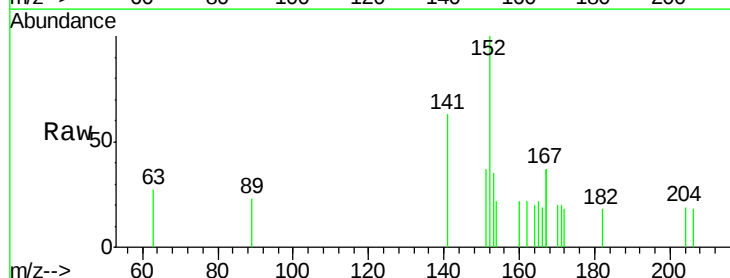
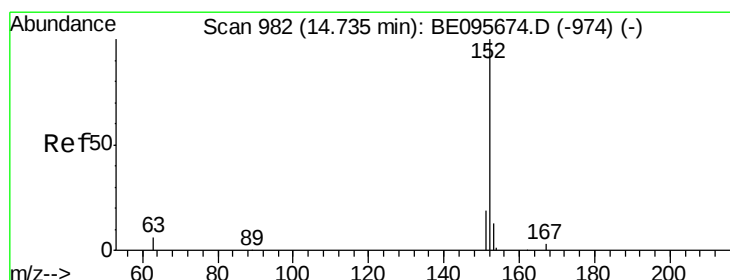
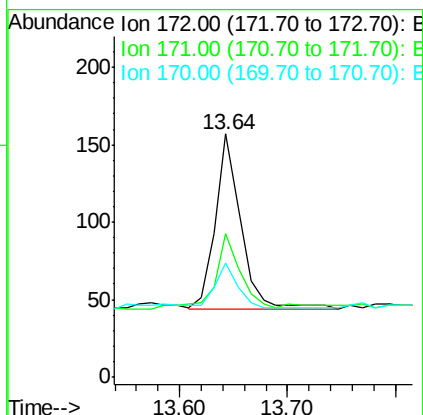
Tot Ion:172 Resp: 185

Ion Ratio Lower Upper

172 100

171 59.2 29.9 44.9#

170 47.1 21.8 32.8#



#16

Acenaphthylene

Concen: 0.021 ng

RT: 14.74 min Scan# 1263

Delta R.T. 0.00 min

Lab File: BE095715.D

Acq: 7 Mar 2018 1:45

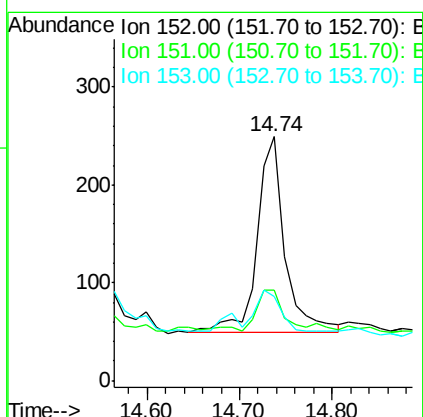
Tgt Ion:152 Resp: 422

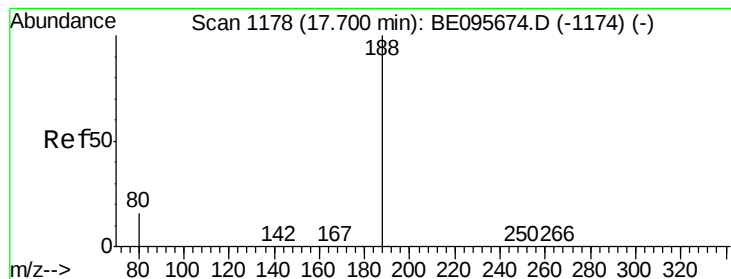
Ion Ratio Lower Upper

152 100

151 23.2 15.7 23.5

153 28.0 10.5 15.7#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.71 min Scan# 1515

Delta R.T. 0.01 min

Lab File: BE095715.D

Acq: 7 Mar 2018 1:45

Instrument :

BNA_E

ClientSampleId :

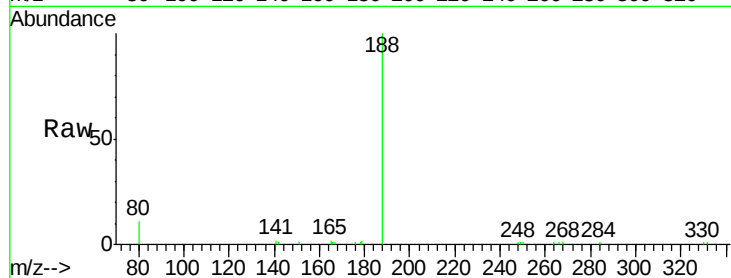
Tot Ion:188 Resp: 7865

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

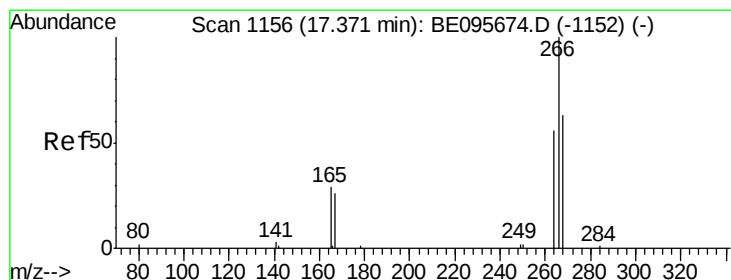
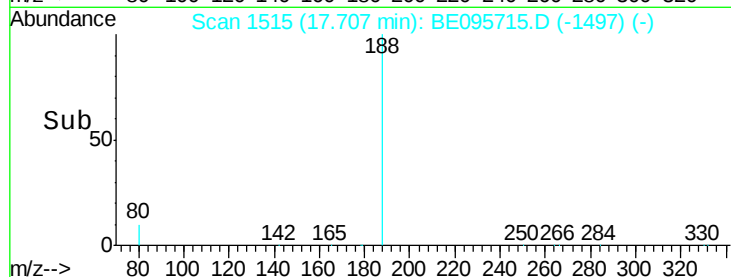
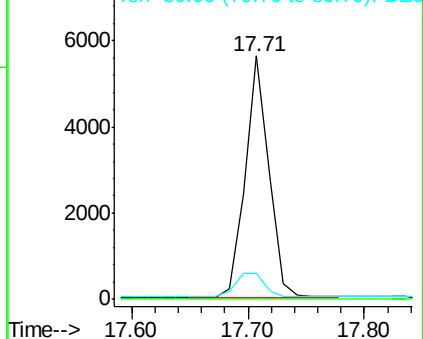
80 10.9 3.6 5.4#



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: 0.180 ng

RT: 17.37 min Scan# 1486

Delta R.T. -0.00 min

Lab File: BE095715.D

Acq: 7 Mar 2018 1:45

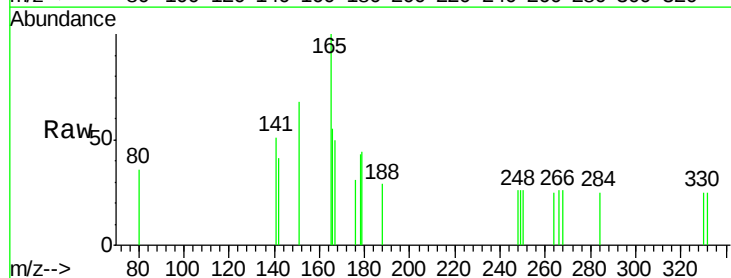
Tgt Ion:266 Resp: 2

Ion Ratio Lower Upper

266 100

264 97.9 72.5 108.7

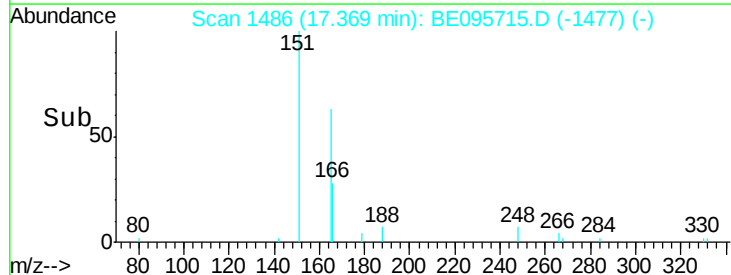
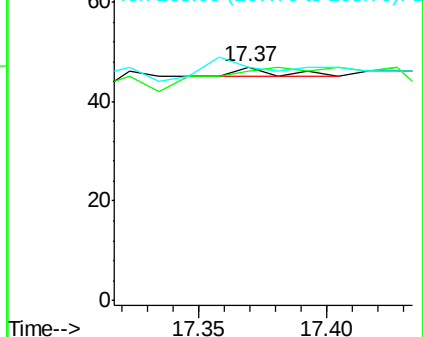
268 100.0 73.8 110.6

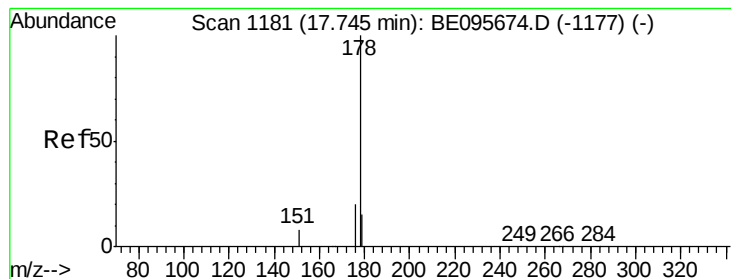


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.354 ng

RT: 17.75 min Scan# 1519

Delta R.T. 0.01 min

Lab File: BE095715.D

Acq: 7 Mar 2018 1:45

Instrument :

BNA_E

ClientSampleId :

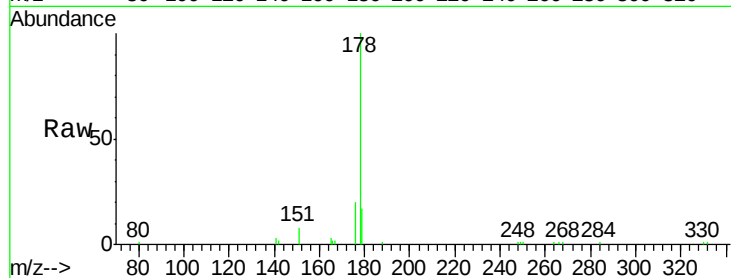
Tot Ion:178 Resp: 8711

Ion Ratio Lower Upper

178 100

176 19.5 15.1 22.7

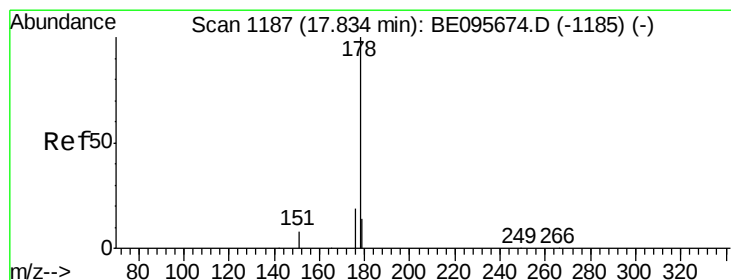
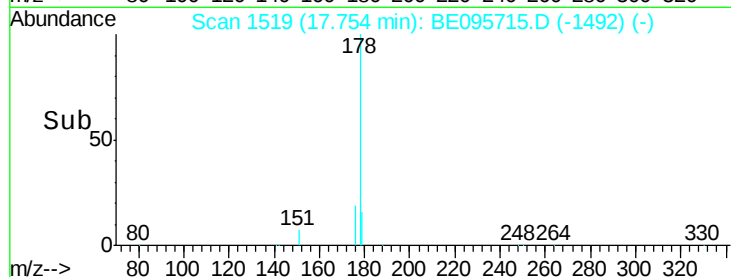
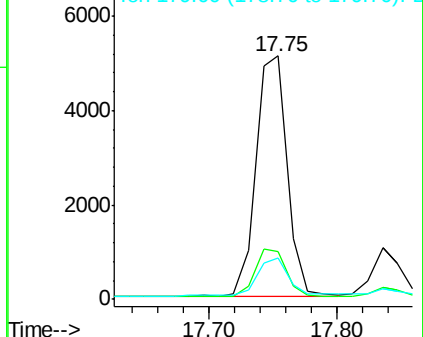
179 15.8 11.8 17.6



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: 0.067 ng

RT: 17.84 min Scan# 1526

Delta R.T. 0.00 min

Lab File: BE095715.D

Acq: 7 Mar 2018 1:45

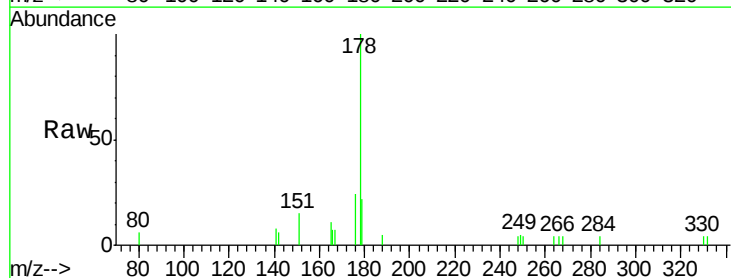
Tgt Ion:178 Resp: 1511

Ion Ratio Lower Upper

178 100

176 19.3 12.8 19.2#

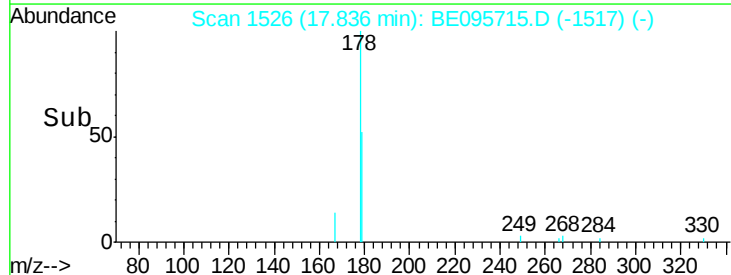
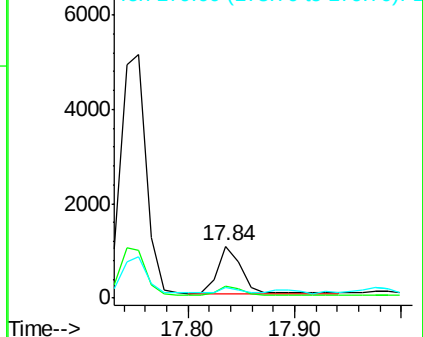
179 12.0 13.0 19.6#

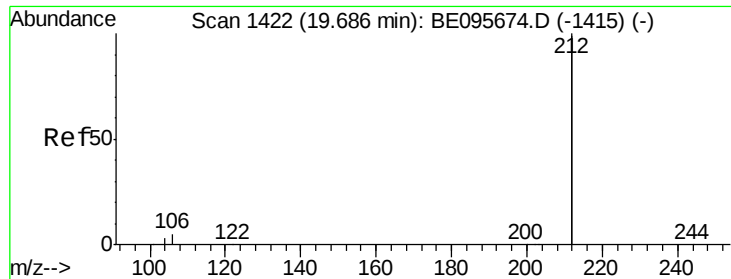


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

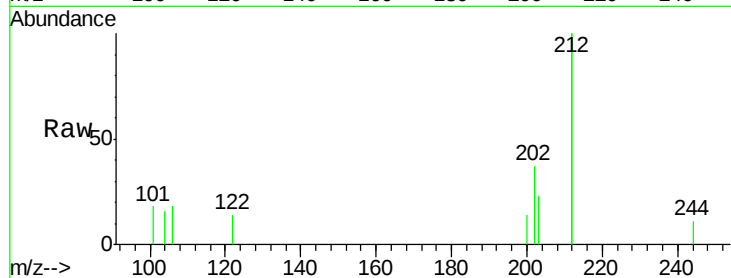




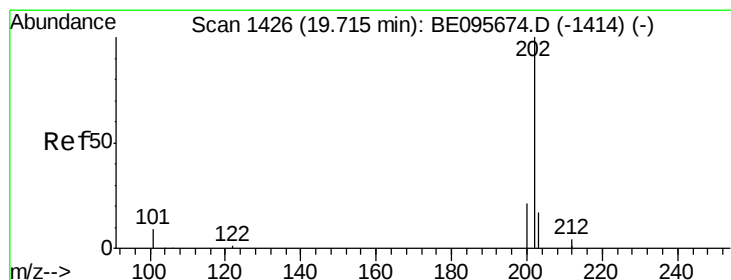
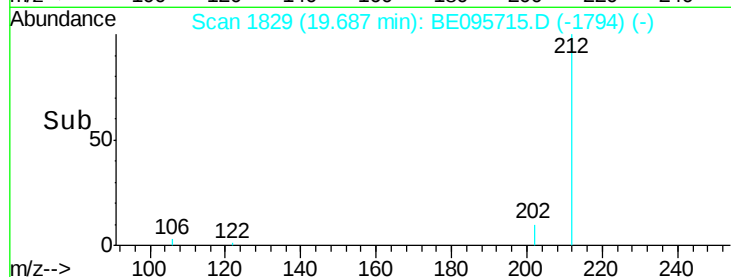
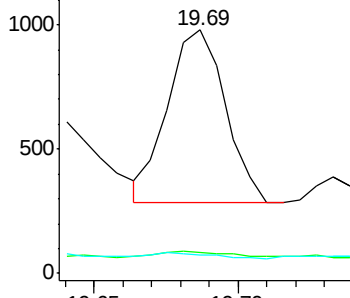
#25
 Fluoranthene-d10
 Concen: 0.009 ng
 RT: 19.69 min Scan# 1829
 Delta R.T. 0.00 min
 Lab File: BE095715.D
 Acq: 7 Mar 2018 1:45

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:212 Resp: 960
 Ion Ratio Lower Upper
 212 100
 106 6.6 2.8 4.2#
 104 3.5 1.6 2.4#

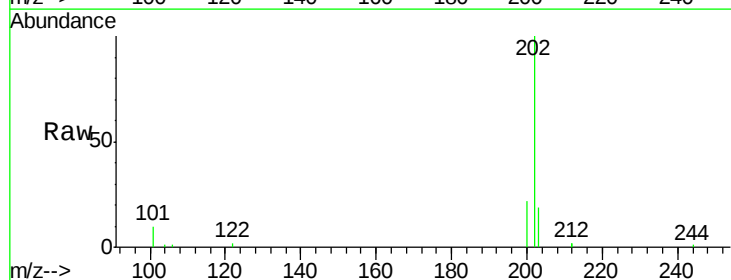


Abundance Ion 212.00 (211.70 to 212.70): E
 Ion 106.00 (105.70 to 106.70): E
 Ion 104.00 (103.70 to 104.70): E

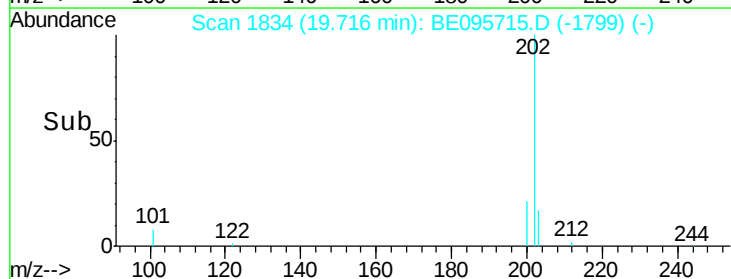
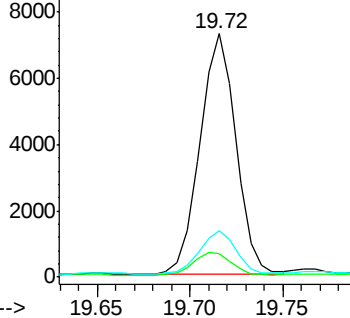


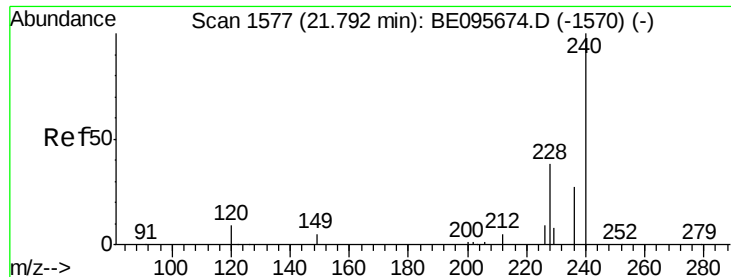
#26
 Fluoranthene
 Concen: 0.324 ng
 RT: 19.72 min Scan# 1834
 Delta R.T. 0.00 min
 Lab File: BE095715.D
 Acq: 7 Mar 2018 1:45

Tgt Ion:202 Resp: 9792
 Ion Ratio Lower Upper
 202 100
 101 10.0 9.8 14.8
 203 18.2 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: BE095715.D

Acq: 7 Mar 2018 1:45

Instrument :

BNA_E

ClientSampleId :

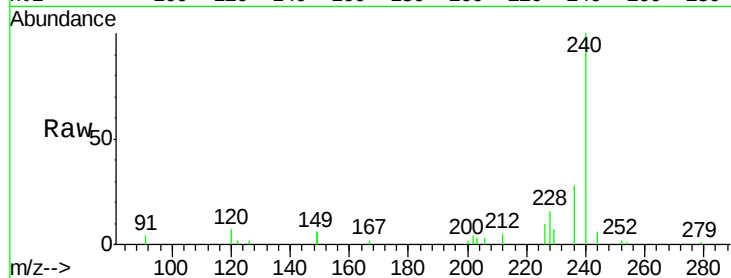
Tot Ion:240 Resp: 7861

Ion Ratio Lower Upper

240 100

120 6.8 5.5 8.3

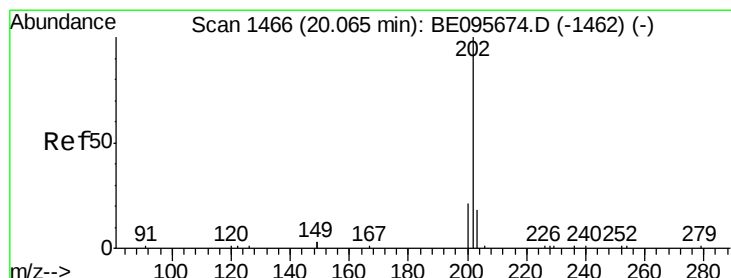
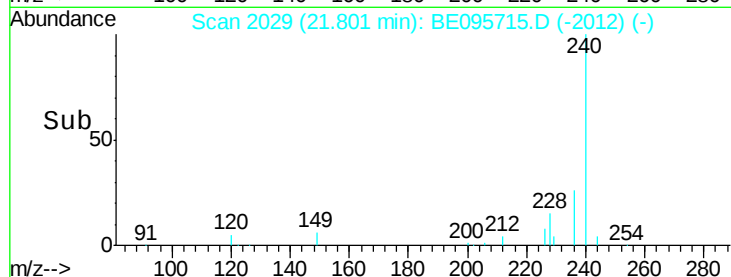
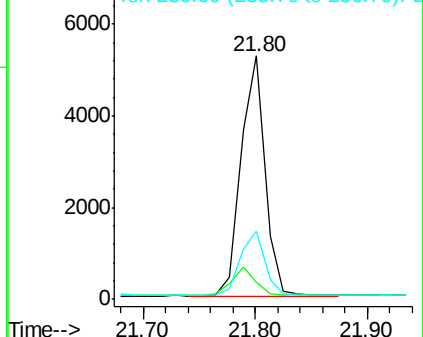
236 28.0 20.7 31.1



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: 0.598 ng

RT: 20.07 min Scan# 1886

Delta R.T. 0.01 min

Lab File: BE095715.D

Acq: 7 Mar 2018 1:45

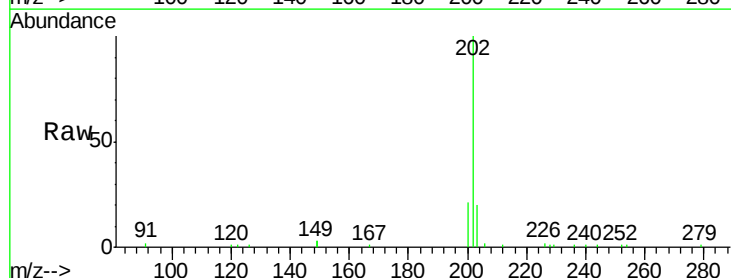
Tgt Ion:202 Resp: 19220

Ion Ratio Lower Upper

202 100

200 21.5 16.6 25.0

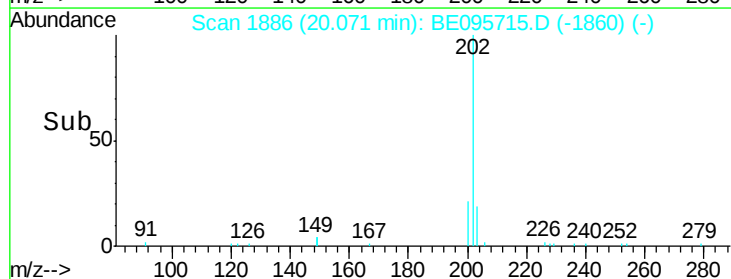
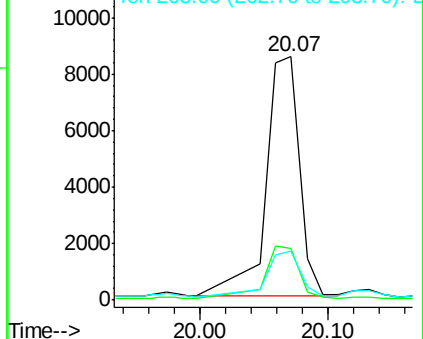
203 19.6 13.8 20.8

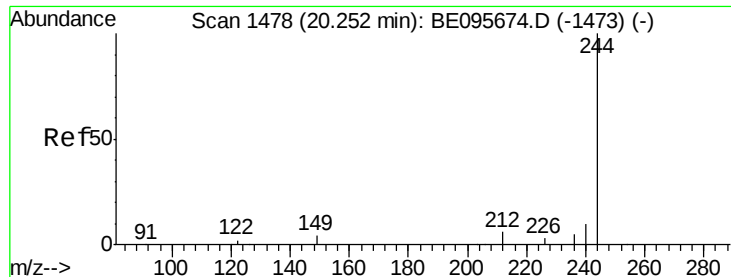


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.012 ng

RT: 20.24 min Scan# 1900

Delta R.T. -0.01 min

Lab File: BE095715.D

Acq: 7 Mar 2018 1:45

Instrument :

BNA_E

ClientSampled :

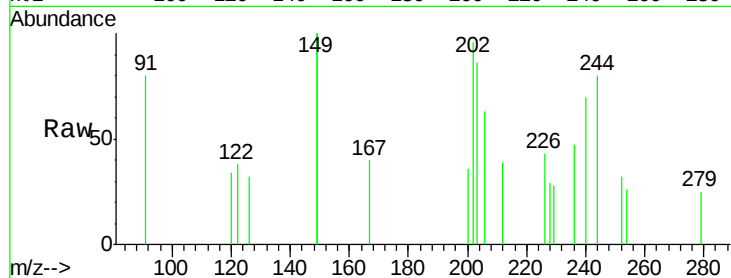
Tot Ion:244 Resp: 188

Ion Ratio Lower Upper

244 100

212 49.1 25.4 38.0#

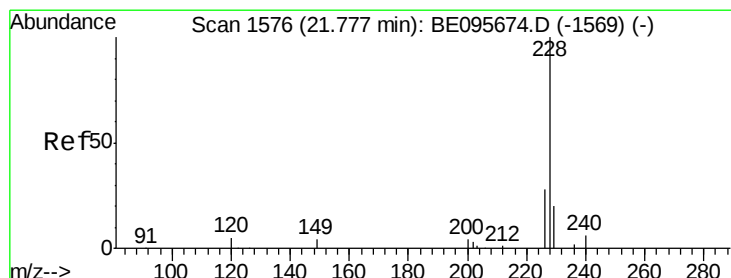
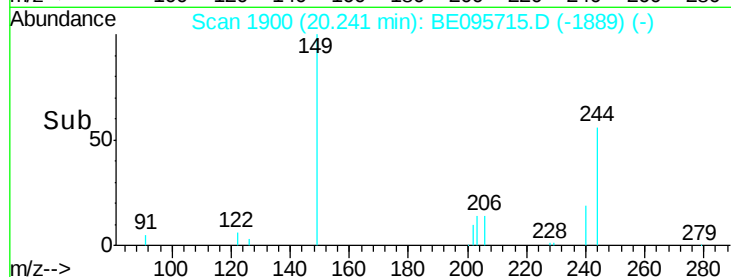
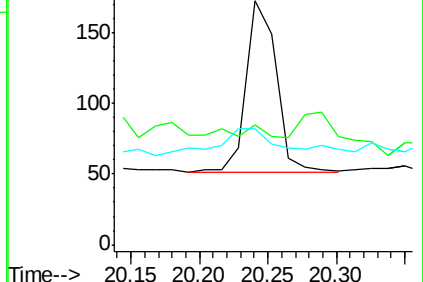
122 47.4 8.1 12.1#



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: 0.272 ng

RT: 21.78 min Scan# 2027

Delta R.T. 0.00 min

Lab File: BE095715.D

Acq: 7 Mar 2018 1:45

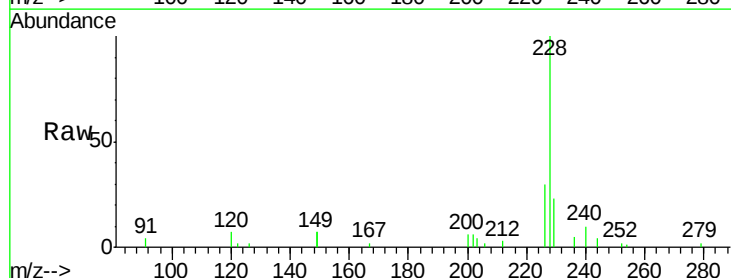
Tgt Ion:228 Resp: 6983

Ion Ratio Lower Upper

228 100

226 30.2 24.0 36.0

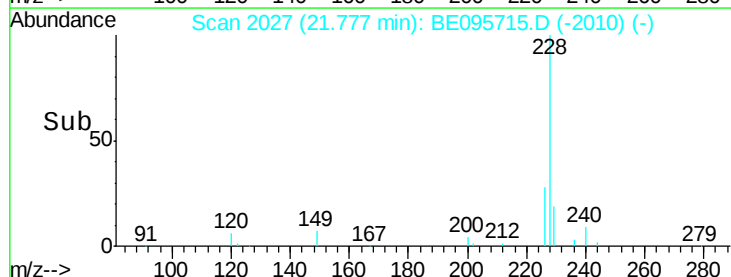
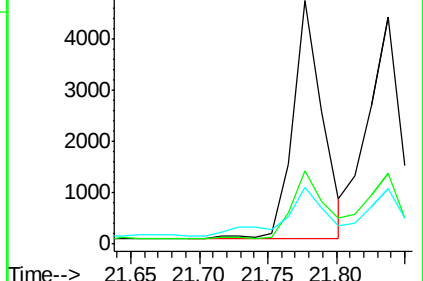
229 23.3 16.0 24.0

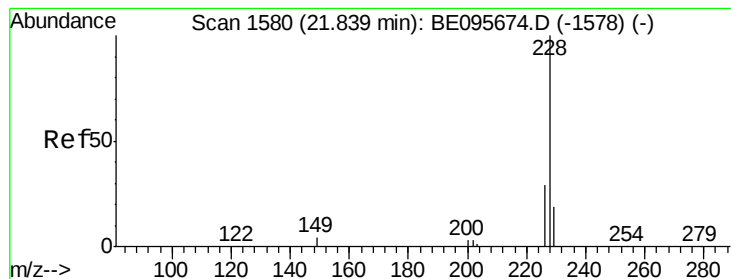


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.276 ng

RT: 21.84 min Scan# 2032

Delta R.T. -0.00 min

Lab File: BE095715.D

Acq: 7 Mar 2018 1:45

Instrument :

BNA_E

ClientSampled :

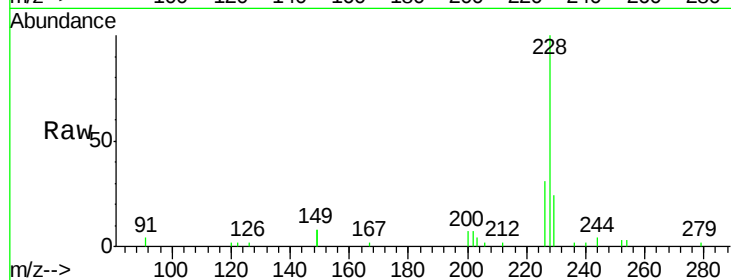
Tot Ion:228 Resp: 7042

Ion Ratio Lower Upper

228 100

226 31.2 24.0 36.0

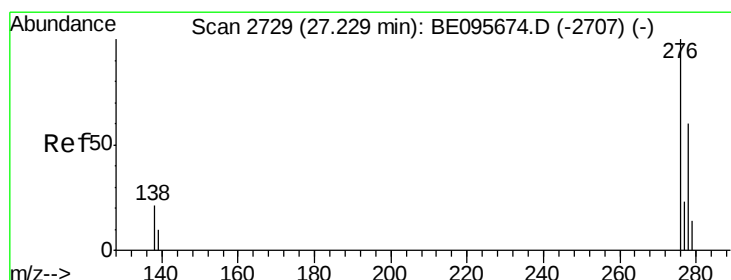
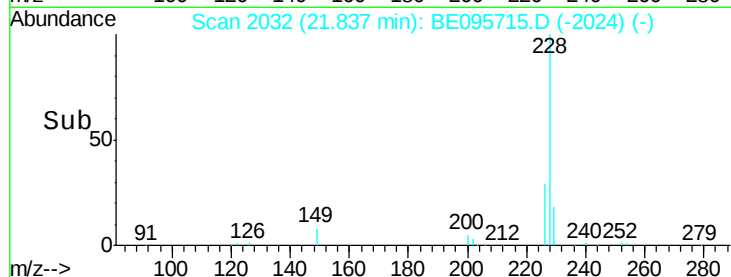
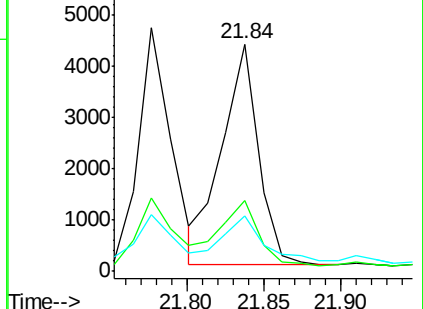
229 24.3 16.0 24.0#



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: 0.125 ng

RT: 27.23 min Scan# 3500

Delta R.T. -0.00 min

Lab File: BE095715.D

Acq: 7 Mar 2018 1:45

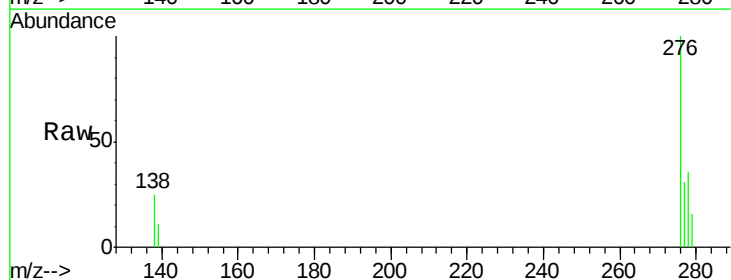
Tgt Ion:276 Resp: 3081

Ion Ratio Lower Upper

276 100

138 21.5 22.5 33.7#

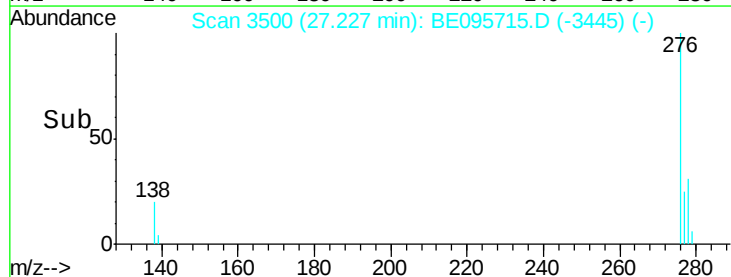
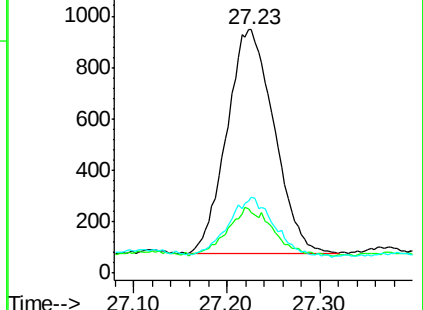
277 25.8 19.9 29.9

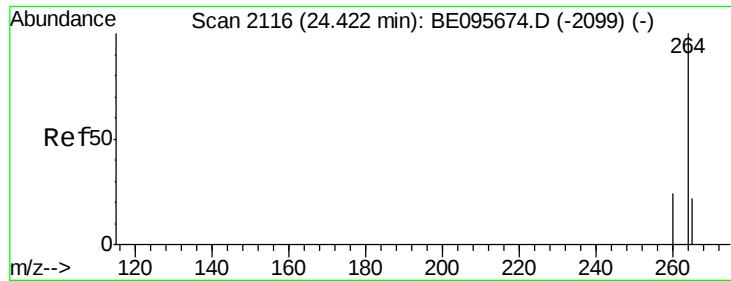


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

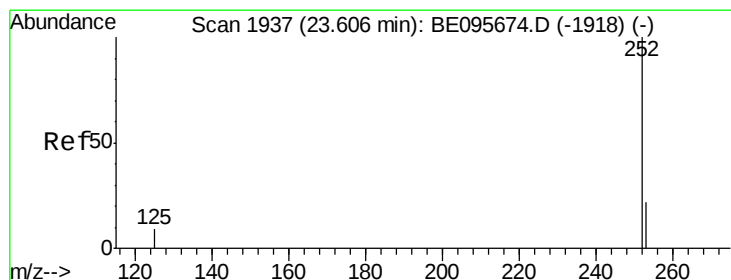
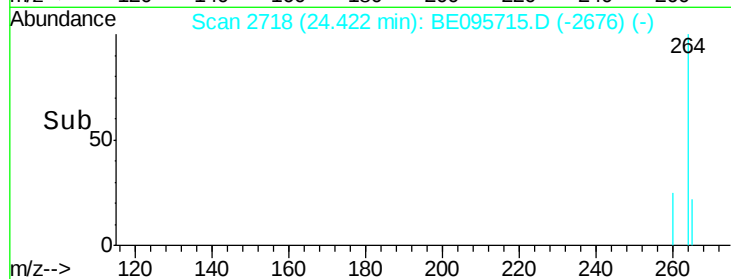
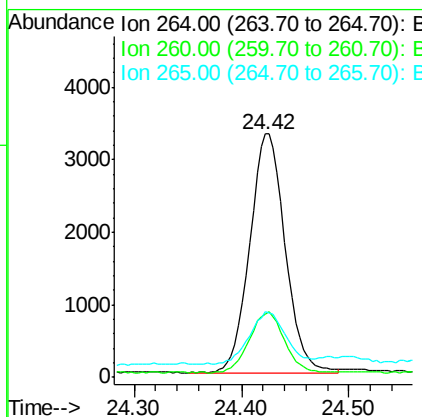
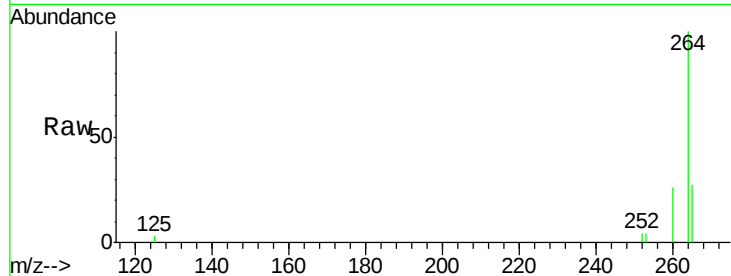




#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 24.42 min Scan# 2718
 Delta R.T. 0.00 min
 Lab File: BE095715.D
 Acq: 7 Mar 2018 1:45

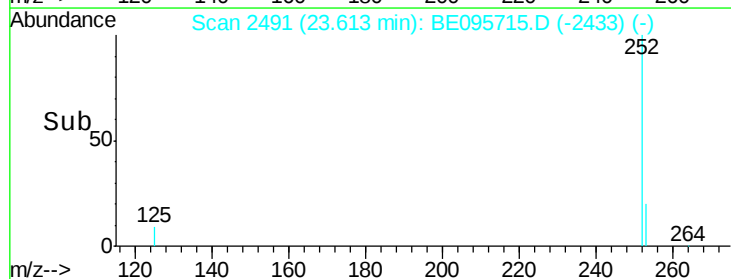
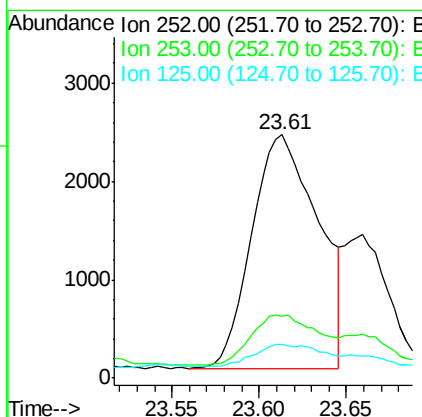
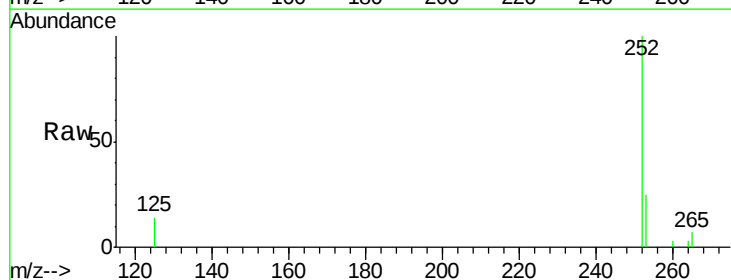
Instrument :
 BNA_E
 ClientSampleId :

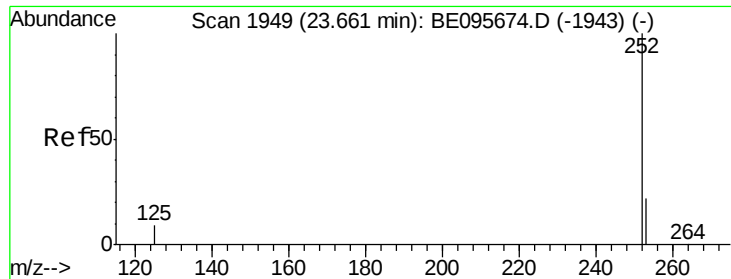
Tot Ion:264 Resp: 7508
 Ion Ratio Lower Upper
 264 100
 260 26.2 20.5 30.7
 265 27.1 22.8 34.2



#35
 Benzo(b)fluoranthene
 Concen: 0.235 ng
 RT: 23.61 min Scan# 2491
 Delta R.T. 0.01 min
 Lab File: BE095715.D
 Acq: 7 Mar 2018 1:45

Tgt Ion:252 Resp: 6284
 Ion Ratio Lower Upper
 252 100
 253 25.2 20.0 30.0
 125 13.6 16.0 24.0#

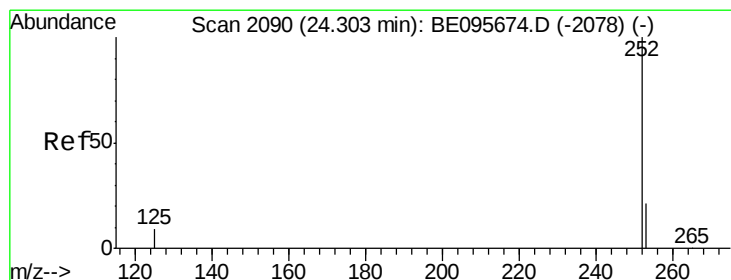
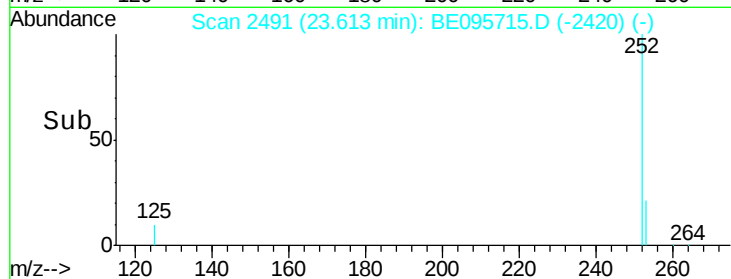
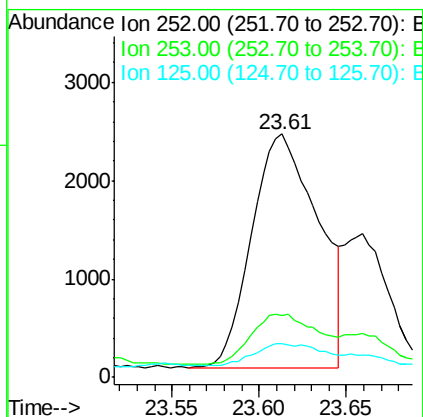
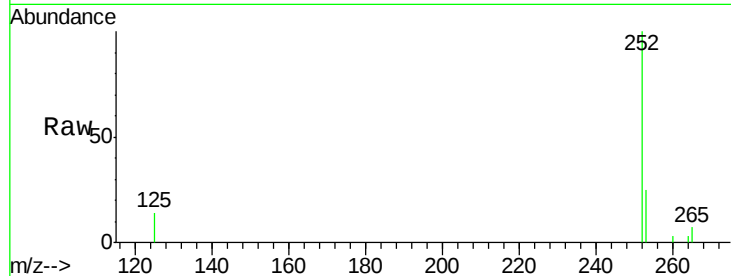




#36
Benzo(k)fluoranthene
Concen: 0.236 ng
RT: 23.61 min Scan# 2491
Delta R.T. -0.05 min
Lab File: BE095715.D
Acq: 7 Mar 2018 1:45

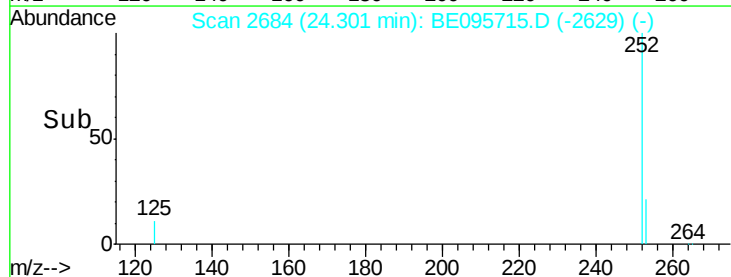
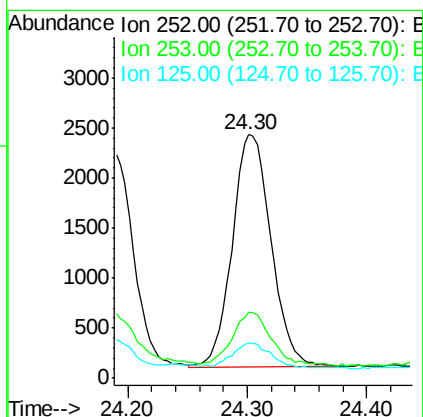
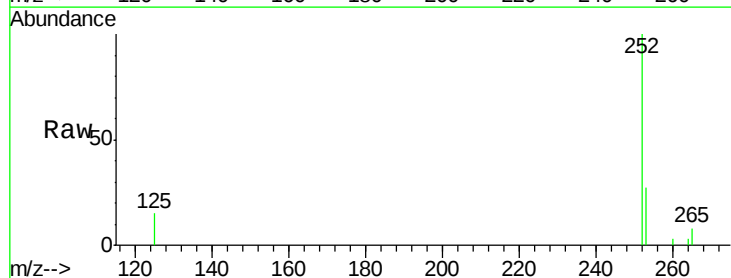
Instrument :
BNA_E
ClientSampleId :

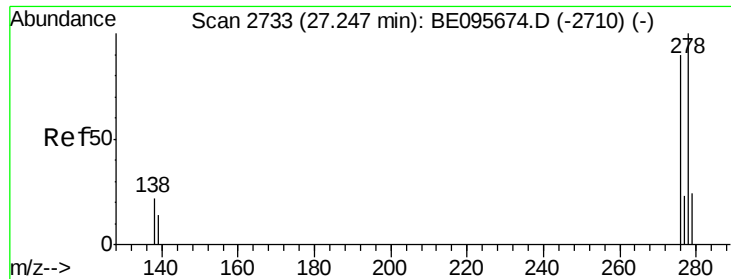
Tot Ion:252 Resp: 6284
Ion Ratio Lower Upper
252 100
253 25.2 16.0 24.0#
125 13.6 8.0 12.0#



#37
Benzo(a)pyrene
Concen: 0.217 ng
RT: 24.30 min Scan# 2684
Delta R.T. -0.00 min
Lab File: BE095715.D
Acq: 7 Mar 2018 1:45

Tgt Ion:252 Resp: 5226
Ion Ratio Lower Upper
252 100
253 26.9 16.0 24.0#
125 14.5 12.0 18.0





#38

Dibenzo(a,h)anthracene

Concen: 0.054 ng

RT: 27.24 min Scan# 3503

Delta R.T. -0.01 min

Lab File: BE095715.D

Acq: 7 Mar 2018 1:45

Instrument :

BNA_E

ClientSampleId :

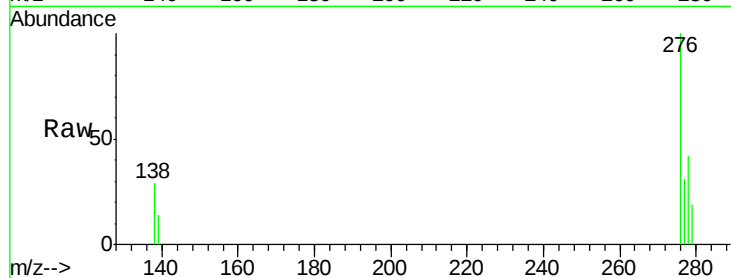
Tot Ion:278 Resp: 1155

Ion Ratio Lower Upper

278 100

139 34.5 16.0 24.0#

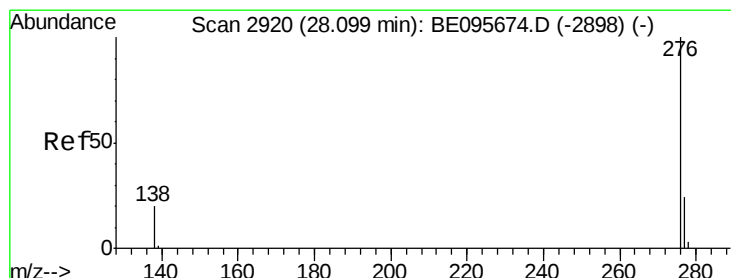
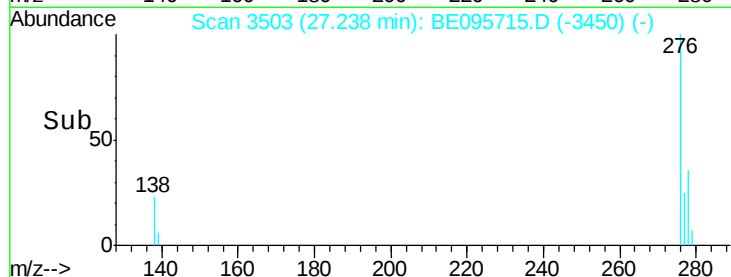
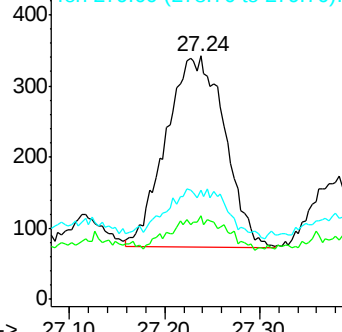
279 45.0 20.0 30.0#



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: 0.181 ng

RT: 28.10 min Scan# 3745

Delta R.T. 0.00 min

Lab File: BE095715.D

Acq: 7 Mar 2018 1:45

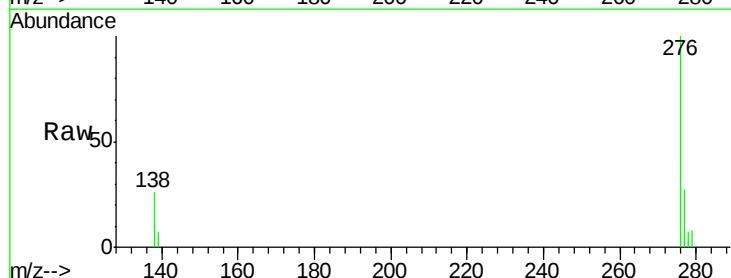
Tgt Ion:276 Resp: 4167

Ion Ratio Lower Upper

276 100

277 26.8 16.0 24.0#

138 26.1 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

