

Data Path : Z:\HPCHEM1\BNA E\DATA\BE030618\
 Data File : BE095711.D
 Acq On : 6 Mar 2018 23:22
 Operator : SJ/JU
 Sample : J1811-07 20X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 07 01:13:16 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	1422	0.40	ng	0.00
7) Naphthalene-d8	11.27	136	5715	0.40	ng	0.00
13) Acenaphthene-d10	15.00	164	3286	0.40	ng	0.00
19) Phenanthrene-d10	17.71	188	7753	0.40	ng	0.00
27) Chrysene-d12	21.80	240	7714	0.40	ng	0.00
34) Perylene-d12	24.42	264	7190	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.92	112	38	0.01	ng	0.00
5) Phenol-d6	7.57	99	42	0.01	ng	0.01
8) Nitrobenzene-d5	9.61	82	59	0.01	ng	0.00
11) 2-Methylnaphthalene-d10	12.81	152	109	0.01	ng	0.00
14) 2,4,6-Tribromophenol	16.47	330	14	0.12	ng	0.00
15) 2-Fluorobiphenyl	13.64	172	149	0.01	ng	0.00
25) Fluoranthene-d10	19.69	212	737	0.01	ng	0.00
29) Terphenyl-d14	20.24	244	134	0.01	ng	-0.01

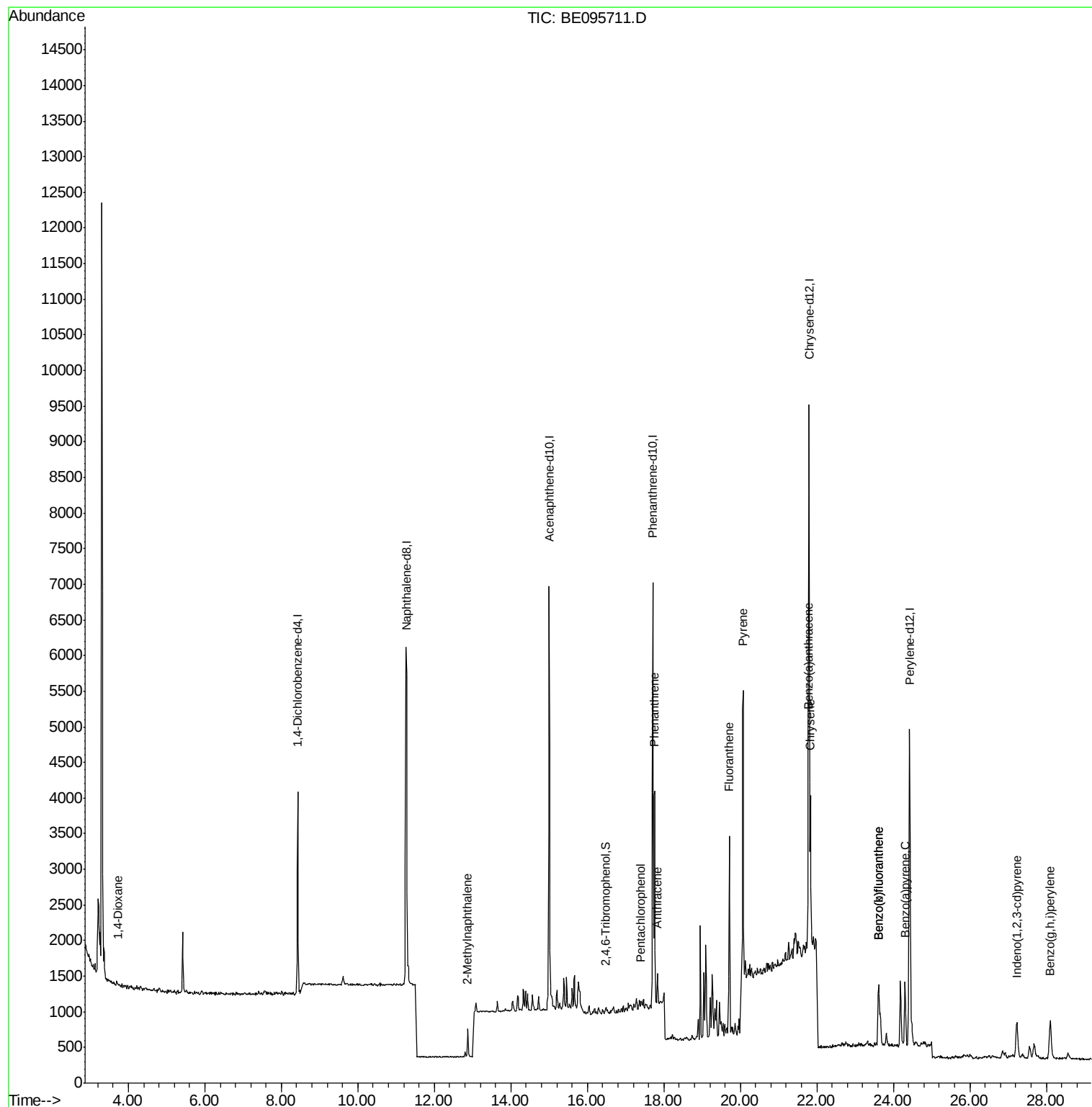
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.73	88	52	0.023	ng	# 16
12) 2-Methylnaphthalene	12.87	142	287	0.025	ng	# 91
22) Pentachlorophenol	17.38	266	9	0.183	ng	94
23) Phenanthrene	17.75	178	3578	0.148	ng	99
24) Anthracene	17.84	178	512	0.023	ng	# 90
26) Fluoranthene	19.72	202	2569	0.086	ng	97
28) Pyrene	20.07	202	6160	0.195	ng	# 95
30) Benzo(a)anthracene	21.78	228	1926	0.077	ng	# 93
31) Chrysene	21.84	228	2110	0.084	ng	# 92
33) Indeno(1,2,3-cd)pyrene	27.23	276	935	0.039	ng	# 79
35) Benzo(b)fluoranthene	23.61	252	1692	0.066	ng	# 89
36) Benzo(k)fluoranthene	23.61	252	1692	0.066	ng	# 70
37) Benzo(a)pyrene	24.30	252	1523	0.066	ng	# 78
39) Benzo(g,h,i)perylene	28.11	276	1378	0.063	ng	# 85

(#) = 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: BE095711.D

Acq: 6 Mar 2018 23:22

Instrument :

BNA_E

ClientSampleId :

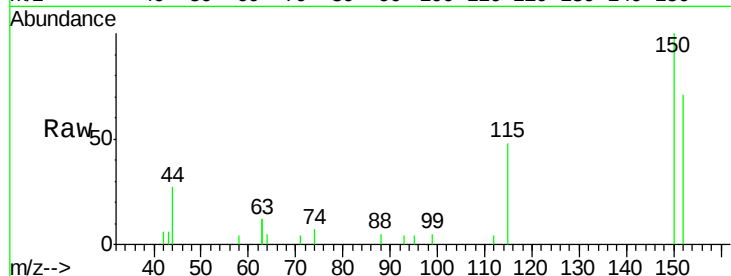
Tot Ion:152 Resp: 1422

Ion Ratio Lower Upper

152 100

150 141.6 117.2 175.8

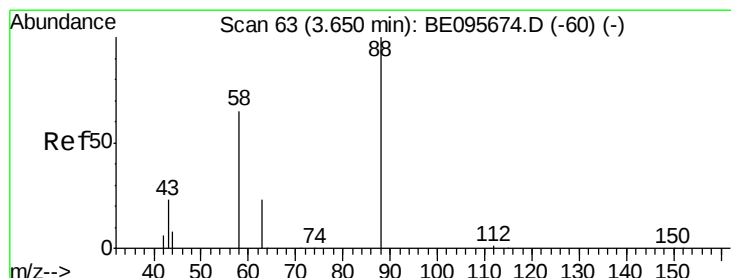
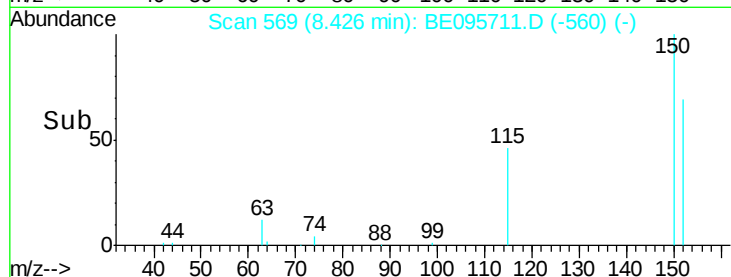
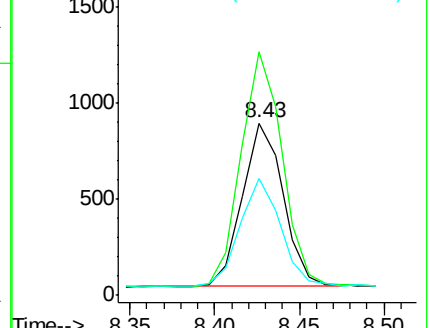
115 68.3 57.0 85.6



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



#2

1,4-Dioxane

Concen: 0.023 ng

RT: 3.73 min Scan# 89

Delta R.T. 0.08 min

Lab File: BE095711.D

Acq: 6 Mar 2018 23:22

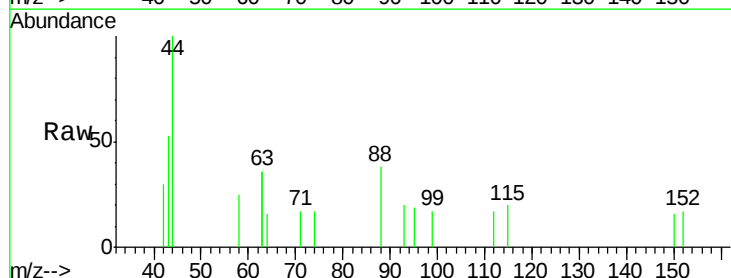
Tgt Ion: 88 Resp: 52

Ion Ratio Lower Upper

88 100

58 0.0 63.2 94.8#

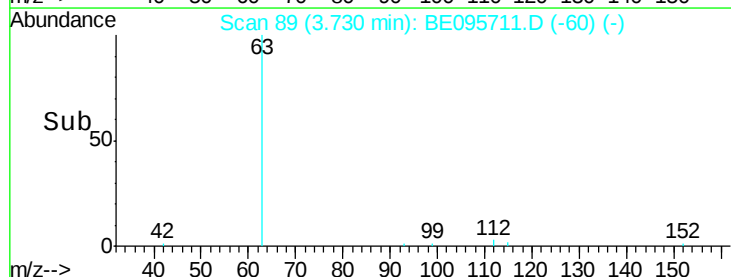
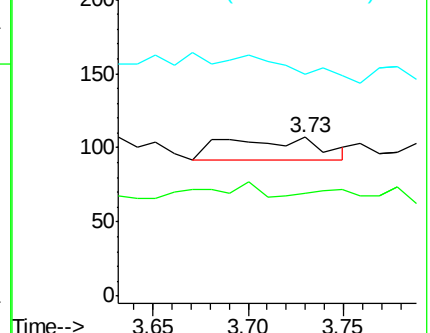
43 0.0 41.2 61.8#

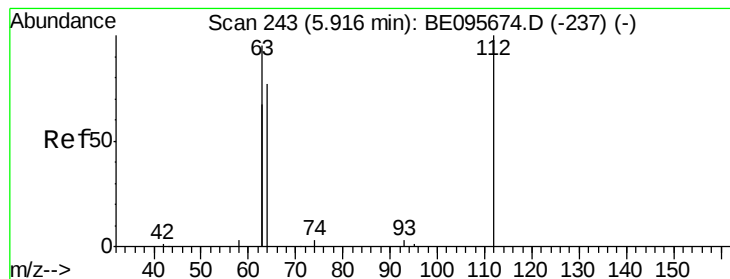


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 0.010 ng

RT: 5.92 min Scan# 313

Delta R.T. 0.01 min

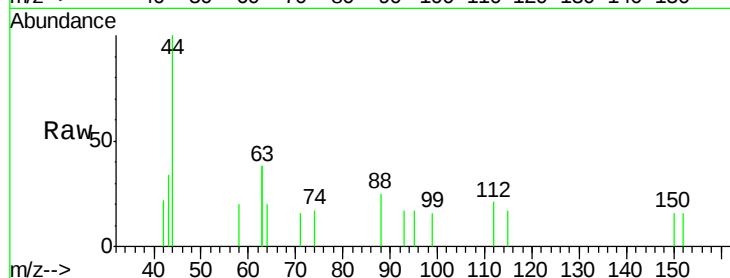
Lab File: BE095711.D

Acq: 6 Mar 2018 23:22

Instrument :

BNA_E

ClientSampleId :



Tot Ion:112 Resp: 38

Ion Ratio Lower Upper

112 100

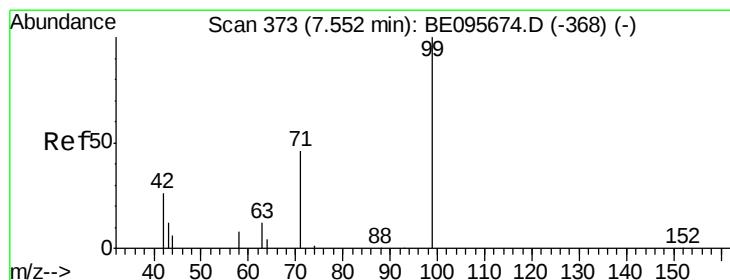
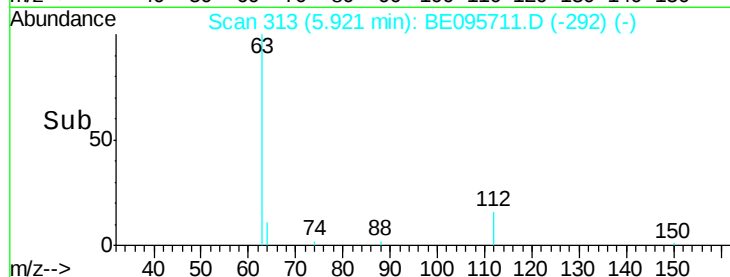
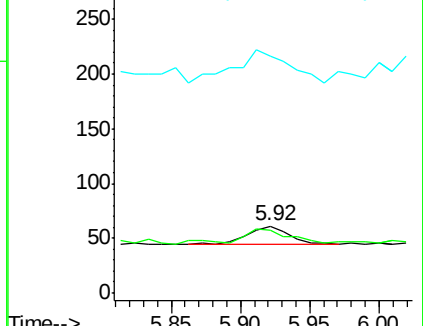
64 65.8 60.1 90.1

63 213.2 116.8 175.2#

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: 0.008 ng

RT: 7.57 min Scan# 481

Delta R.T. 0.01 min

Lab File: BE095711.D

Acq: 6 Mar 2018 23:22

Tgt Ion: 99 Resp: 42

Ion Ratio Lower Upper

99 100

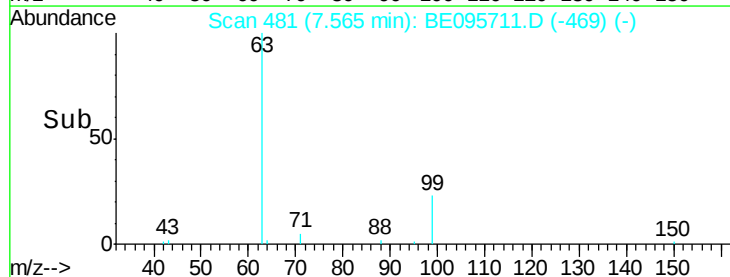
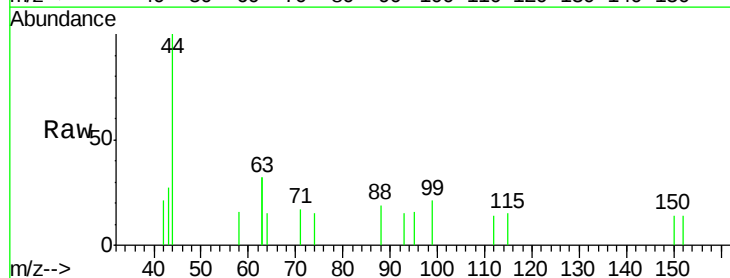
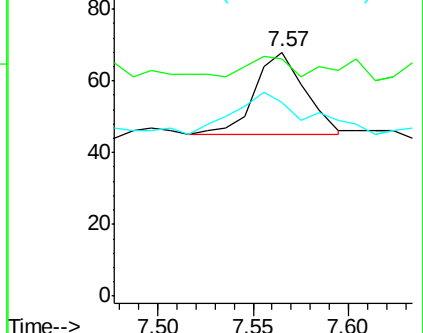
42 21.4 20.2 30.2

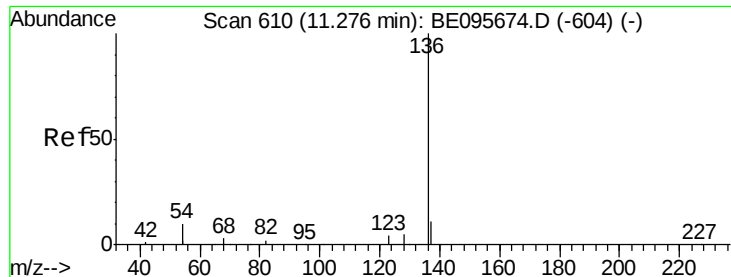
71 61.9 28.4 42.6#

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: BE095711.D

Acq: 6 Mar 2018 23:22

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 5715

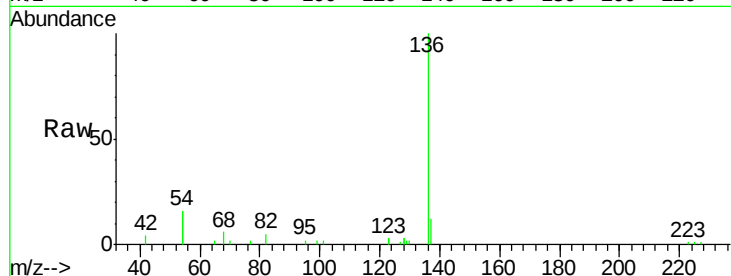
Ion Ratio Lower Upper

136 100

137 12.0 9.5 14.3

54 31.1 29.1 43.7

68 6.0 6.2 9.2#

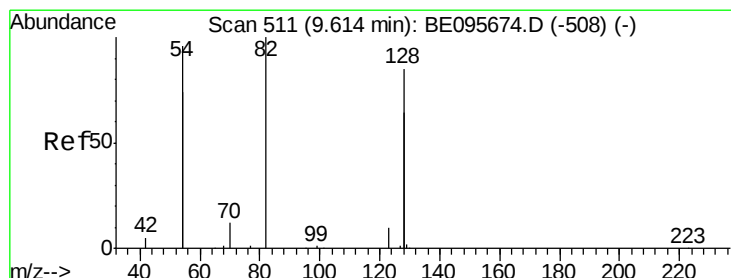
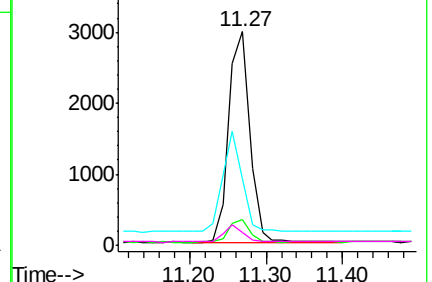
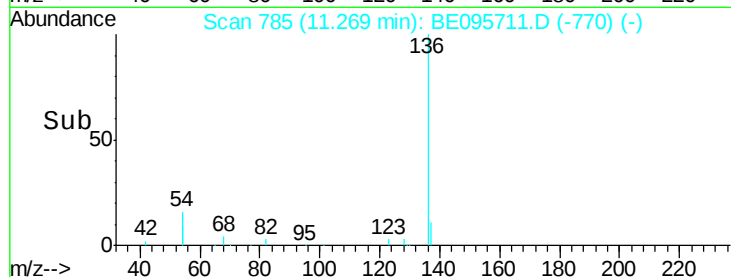


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.010 ng

RT: 9.61 min Scan# 657

Delta R.T. -0.01 min

Lab File: BE095711.D

Acq: 6 Mar 2018 23:22

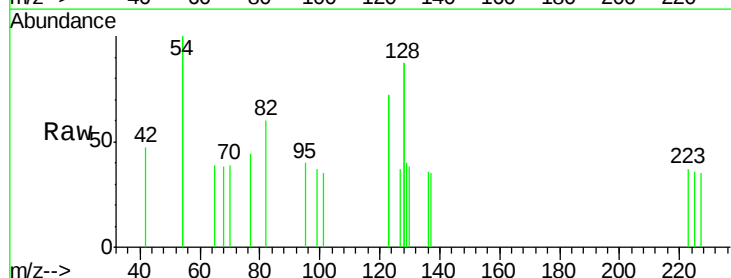
Tgt Ion: 82 Resp: 59

Ion Ratio Lower Upper

82 100

128 293.3 150.0 225.0#

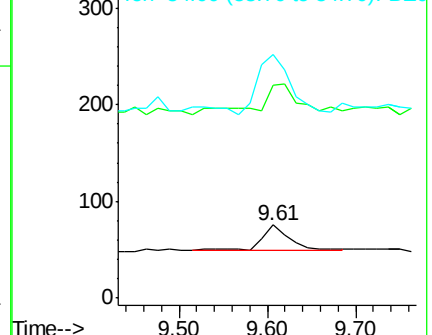
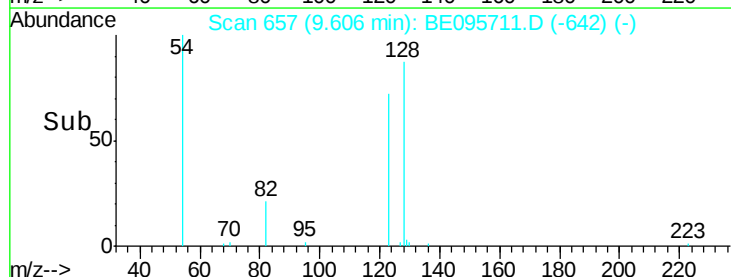
54 336.0 154.2 231.4#

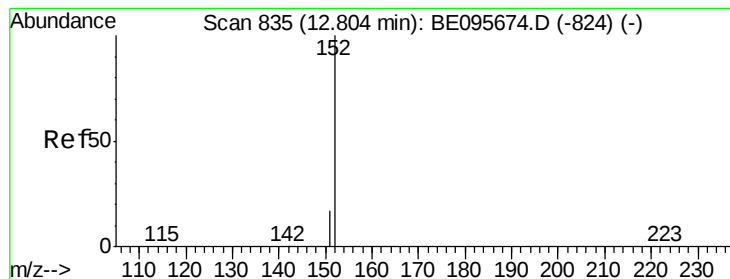


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#11

2-Methylnaphthalene-d10

Concen: 0.011 ng

RT: 12.81 min Scan# 1074

Delta R.T. 0.00 min

Lab File: BE095711.D

Acq: 6 Mar 2018 23:22

Instrument :

BNA_E

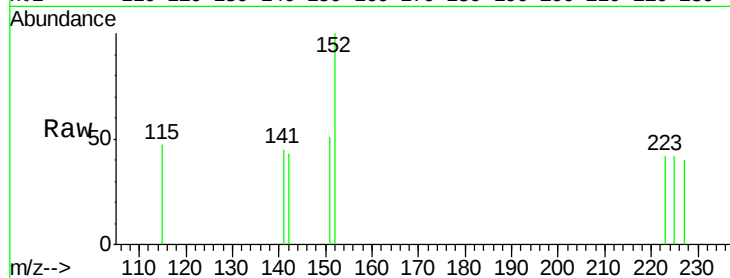
ClientSampleId :

Tot Ion:152 Resp: 109

Ion Ratio Lower Upper

152 100

151 17.4 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

80

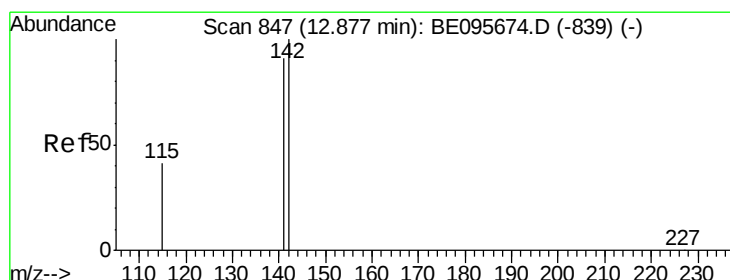
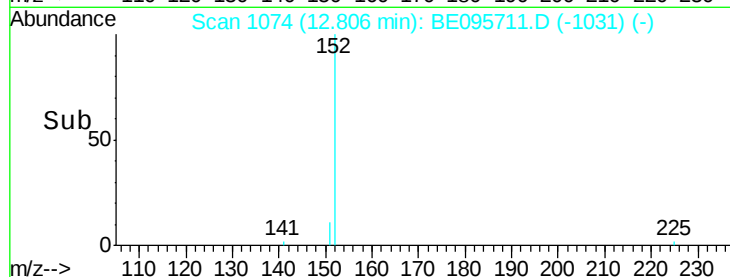
60

40

20

0

Time-->



#12

2-Methylnaphthalene

Concen: 0.025 ng

RT: 12.87 min Scan# 1088

Delta R.T. -0.00 min

Lab File: BE095711.D

Acq: 6 Mar 2018 23:22

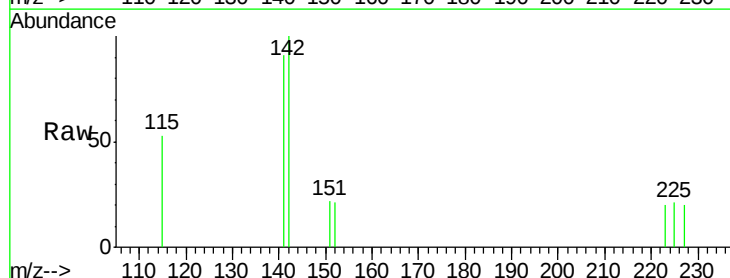
Tgt Ion:142 Resp: 287

Ion Ratio Lower Upper

142 100

141 91.3 70.4 105.6

115 52.5 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

300

250

200

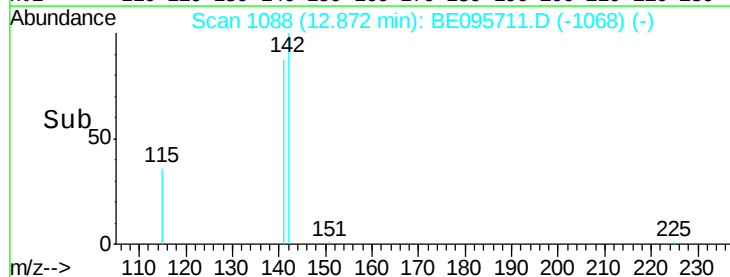
150

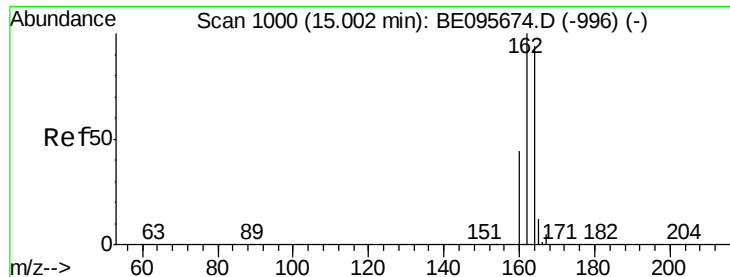
100

50

0

Time-->





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 15.00 min Scan# 1286

Delta R.T. 0.00 min

Lab File: BE095711.D

Acq: 6 Mar 2018 23:22

Instrument :

BNA_E

ClientSampleId :

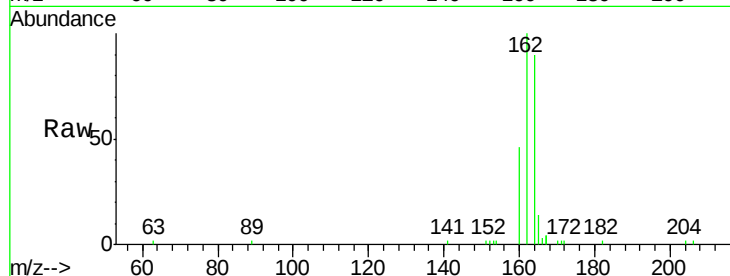
Tot Ion:164 Resp: 3286

Ion Ratio Lower Upper

164 100

162 111.5 83.1 124.7

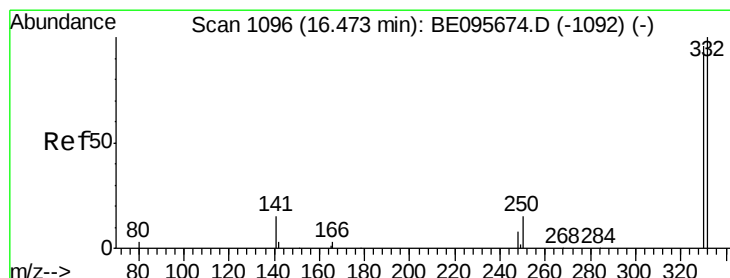
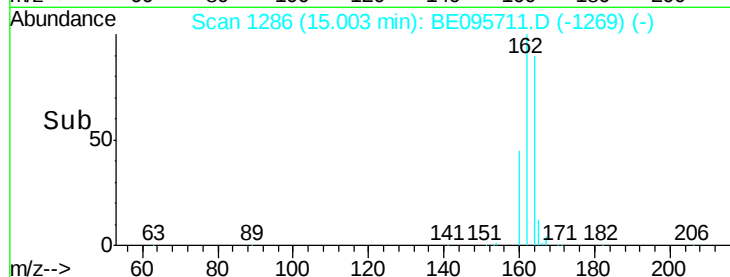
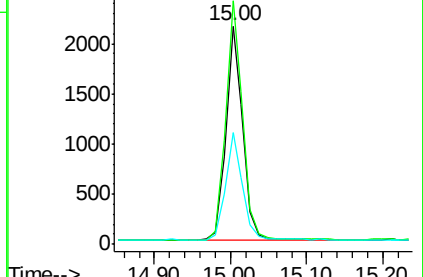
160 51.1 37.1 55.7



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: 0.124 ng

RT: 16.47 min Scan# 1409

Delta R.T. -0.00 min

Lab File: BE095711.D

Acq: 6 Mar 2018 23:22

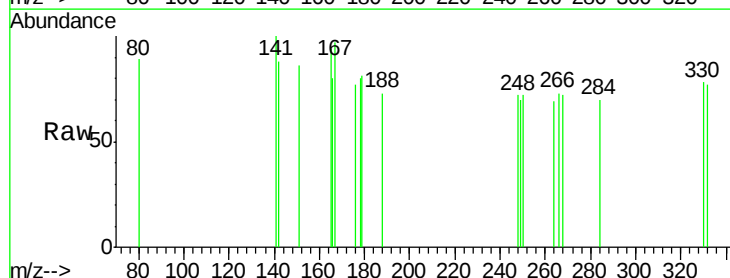
Tgt Ion:330 Resp: 14

Ion Ratio Lower Upper

330 100

332 85.7 152.7 229.1#

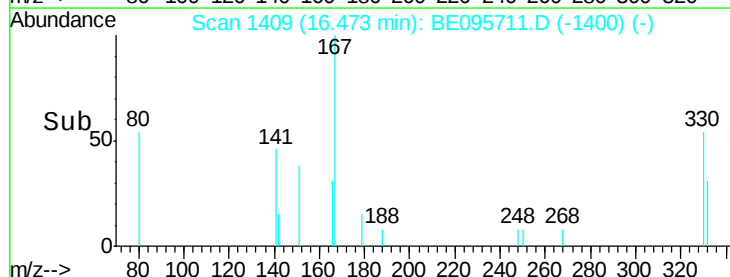
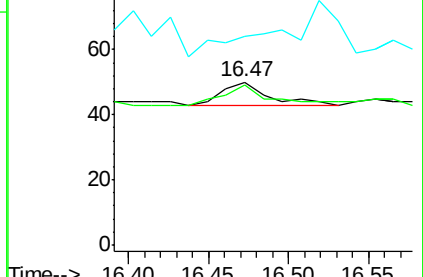
141 0.0 33.7 50.5#

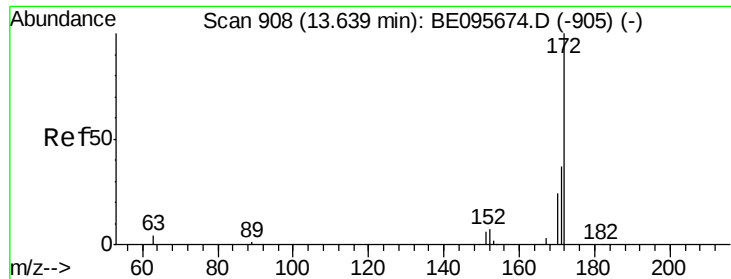


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

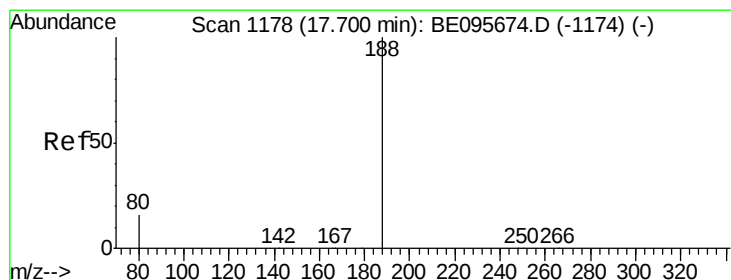
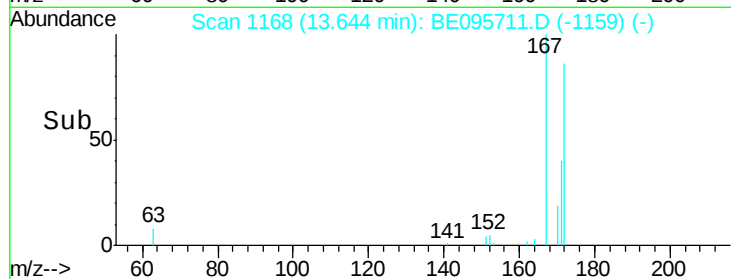
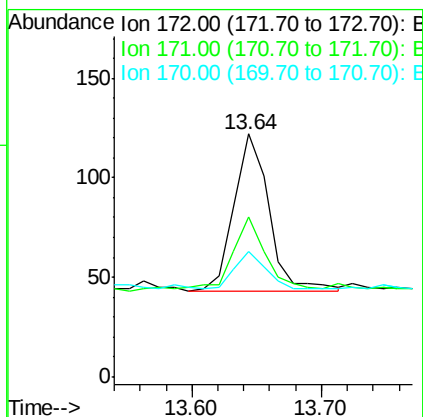
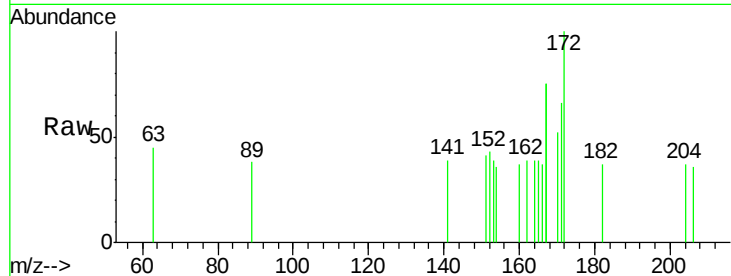




#15
2-Fluorobiphenyl
Concen: 0.010 ng
RT: 13.64 min Scan# 1168
Delta R.T. 0.00 min
Lab File: BE095711.D
Acq: 6 Mar 2018 23:22

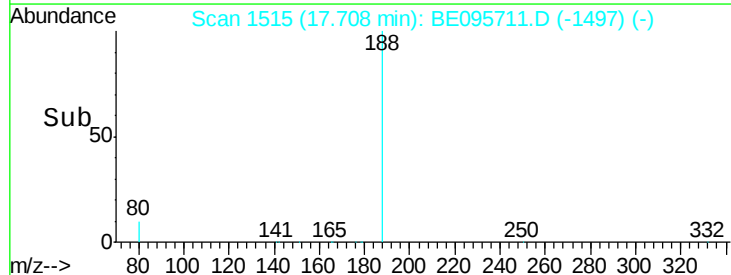
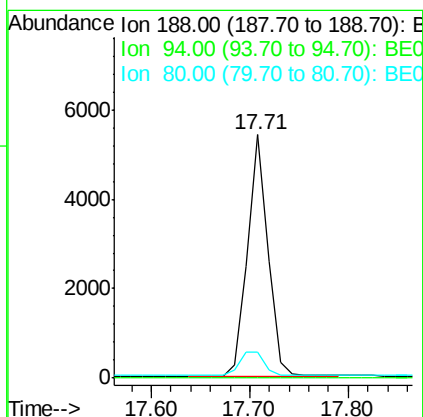
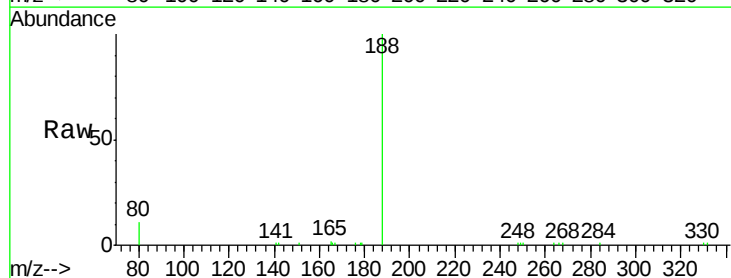
Instrument :
BNA_E
ClientSampled :

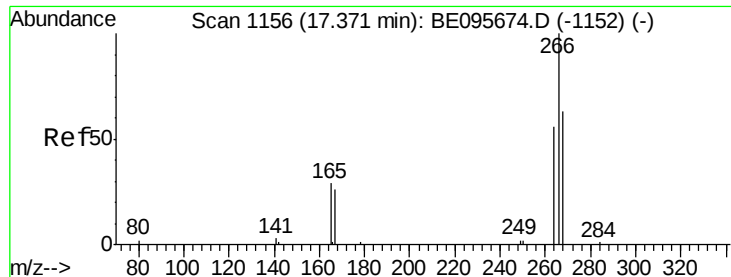
Tot Ion:172 Resp: 149
Ion Ratio Lower Upper
172 100
171 65.6 29.9 44.9#
170 51.6 21.8 32.8#



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.71 min Scan# 1515
Delta R.T. 0.01 min
Lab File: BE095711.D
Acq: 6 Mar 2018 23:22

Tgt Ion:188 Resp: 7753
Ion Ratio Lower Upper
188 100
94 0.0 3.9 5.9#
80 10.8 3.6 5.4#



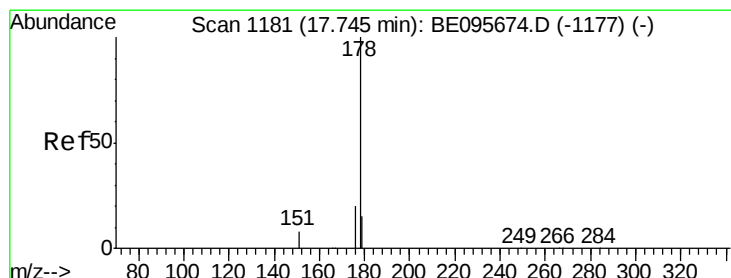
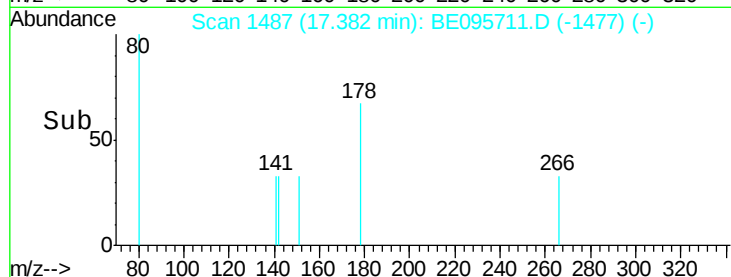
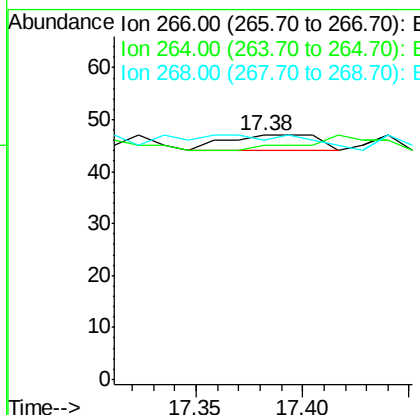
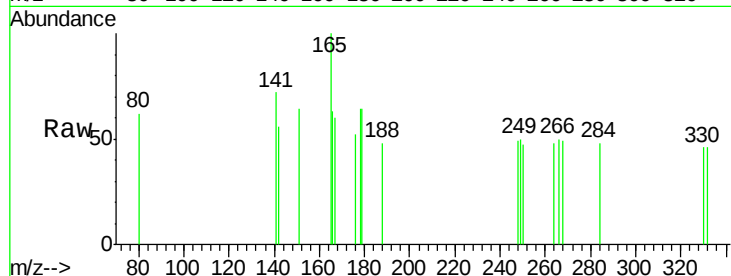


#22
 Pentachlorophenol
 Concen: 0.183 ng
 RT: 17.38 min Scan# 1487
 Delta R.T. 0.01 min
 Lab File: BE095711.D
 Acq: 6 Mar 2018 23:22

Instrument :
 BNA_E
 ClientSampled :

Tot Ion:266 Resp: 9

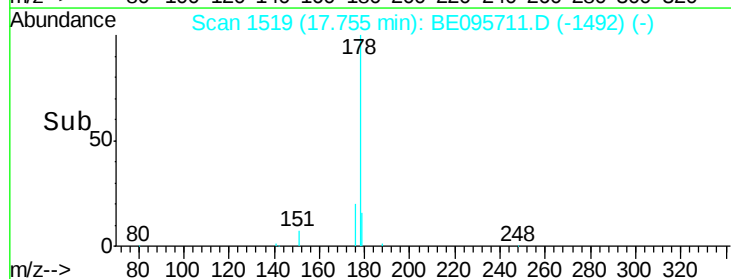
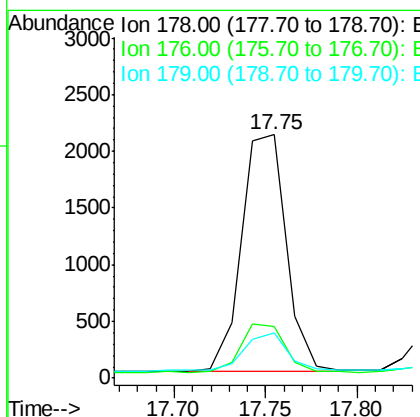
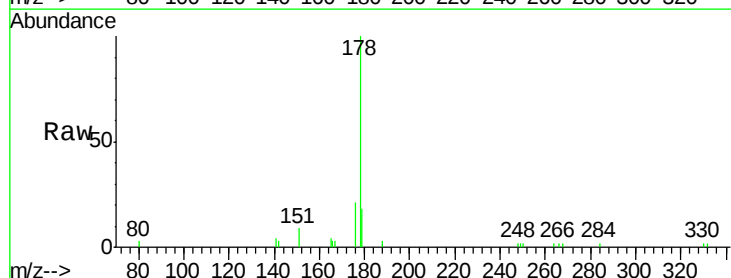
Ion	Ratio	Lower	Upper
266	100		
264	95.7	72.5	108.7
268	97.9	73.8	110.6

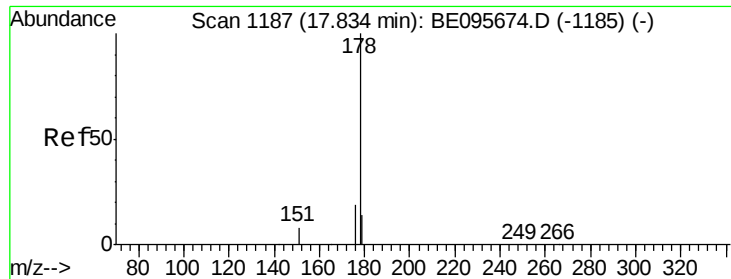


#23
 Phenanthrene
 Concen: 0.148 ng
 RT: 17.75 min Scan# 1519
 Delta R.T. 0.01 min
 Lab File: BE095711.D
 Acq: 6 Mar 2018 23:22

Tgt Ion:178 Resp: 3578

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.1	22.7
179	14.7	11.8	17.6





#24

Anthracene

Concen: 0.023 ng

RT: 17.84 min Scan# 1526

Delta R.T. 0.00 min

Lab File: BE095711.D

Acq: 6 Mar 2018 23:22

Instrument :

BNA_E

ClientSampleId :

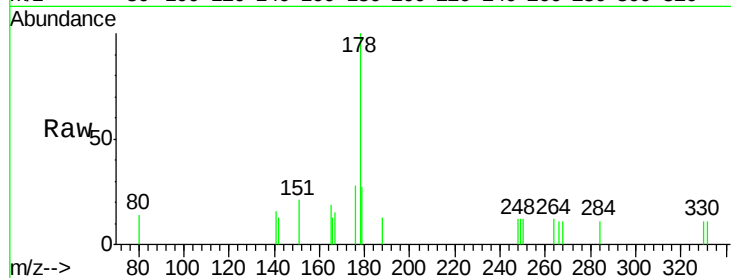
Tot Ion:178 Resp: 512

Ion Ratio Lower Upper

178 100

176 18.0 12.8 19.2

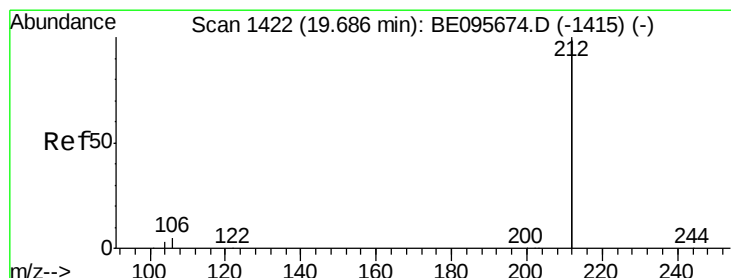
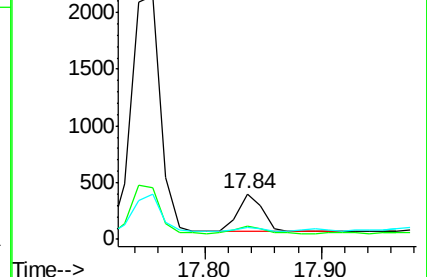
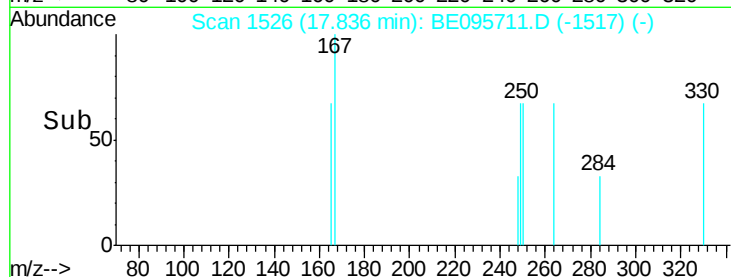
179 9.8 13.0 19.6#



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: 0.007 ng

RT: 19.69 min Scan# 1829

Delta R.T. 0.00 min

Lab File: BE095711.D

Acq: 6 Mar 2018 23:22

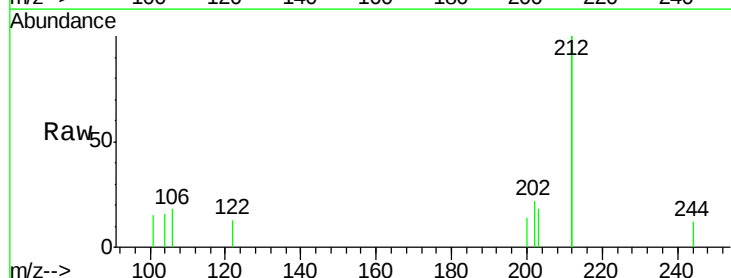
Tgt Ion:212 Resp: 737

Ion Ratio Lower Upper

212 100

106 3.9 2.8 4.2

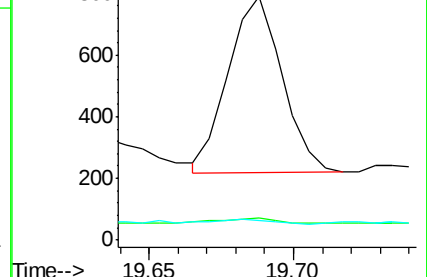
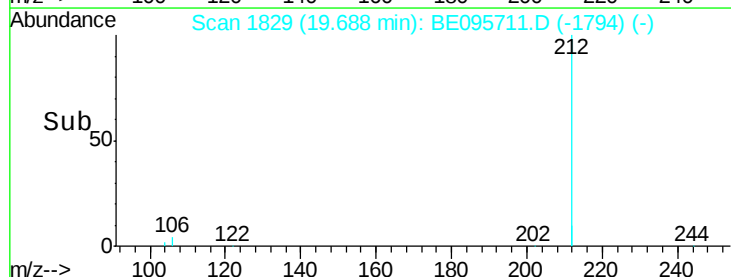
104 2.4 1.6 2.4#

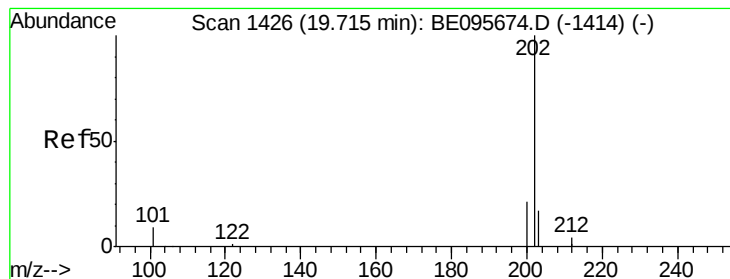


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#26

Fluoranthene

Concen: 0.086 ng

RT: 19.72 min Scan# 1834

Delta R.T. 0.00 min

Lab File: BE095711.D

Acq: 6 Mar 2018 23:22

Instrument :

BNA_E

ClientSampleId :

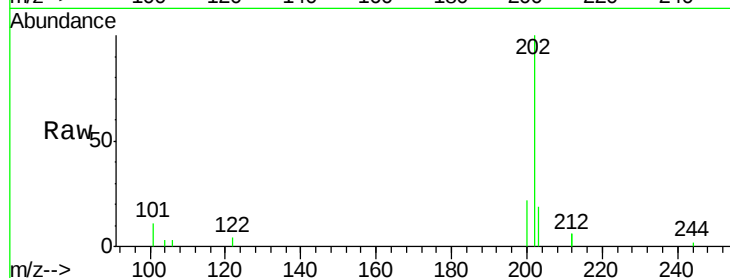
Tot Ion:202 Resp: 2569

Ion Ratio Lower Upper

202 100

101 10.6 9.8 14.8

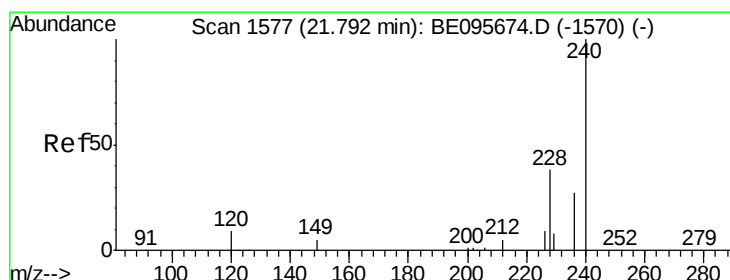
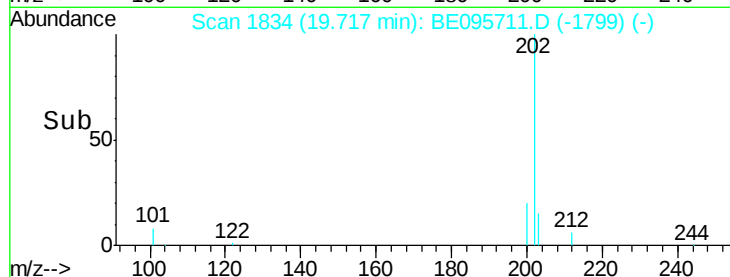
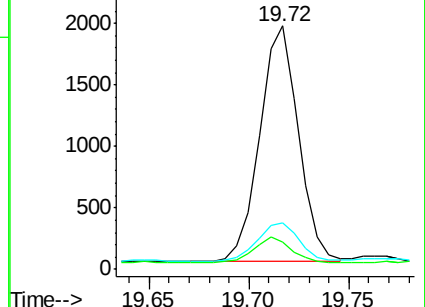
203 17.9 13.7 20.5



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: BE095711.D

Acq: 6 Mar 2018 23:22

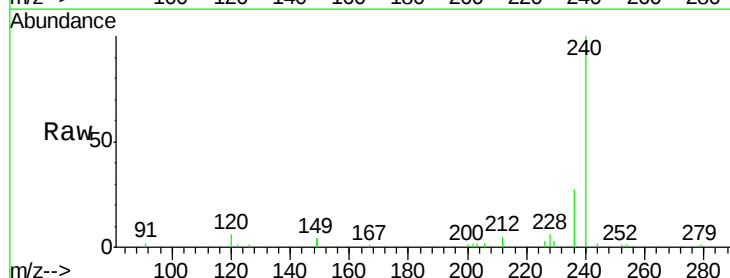
Tgt Ion:240 Resp: 7714

Ion Ratio Lower Upper

240 100

120 6.3 5.5 8.3

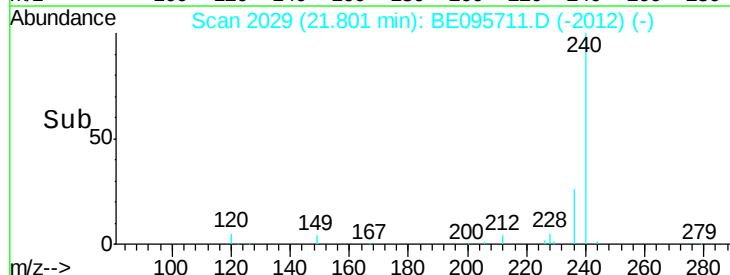
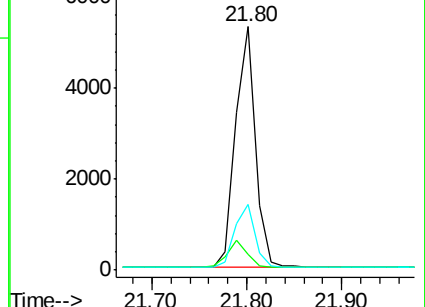
236 27.1 20.7 31.1

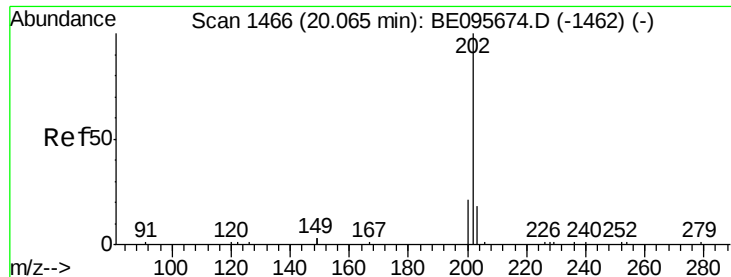


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#28

Pvrene

Concen: 0.195 ng

RT: 20.07 min Scan# 1886

Delta R.T. 0.01 min

Lab File: BE095711.D

Acq: 6 Mar 2018 23:22

Instrument :

BNA_E

ClientSampleId :

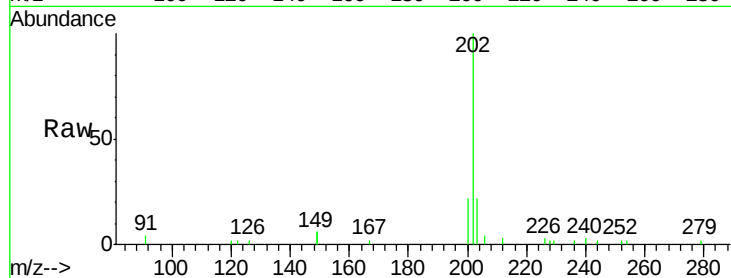
Tot Ion:202 Resp: 6160

Ion Ratio Lower Upper

202 100

200 21.3 16.6 25.0

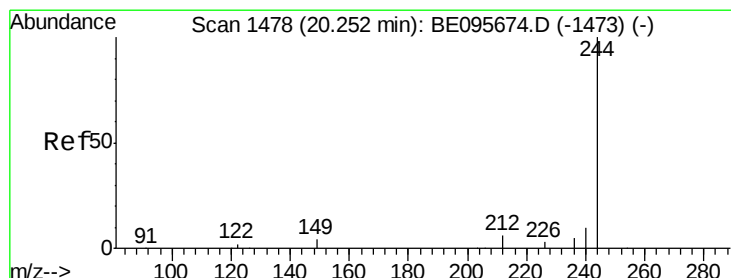
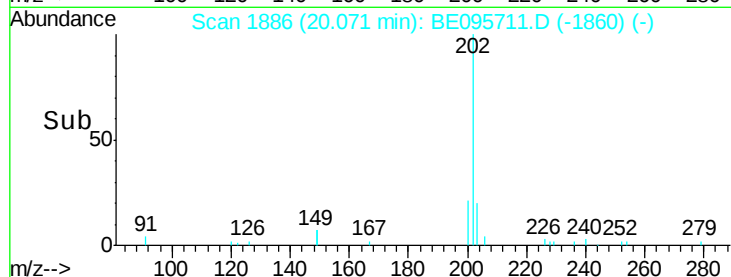
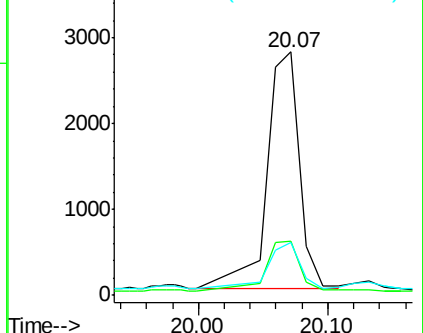
203 21.9 13.8 20.8#



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: BE095711.D

Acq: 6 Mar 2018 23:22

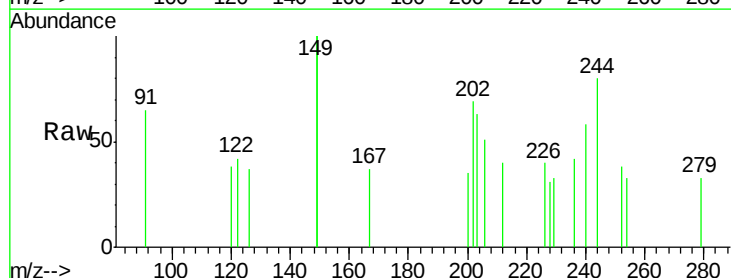
Tgt Ion:244 Resp: 134

Ion Ratio Lower Upper

244 100

212 50.4 25.4 38.0#

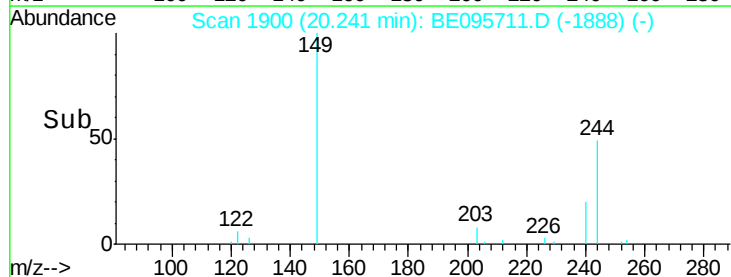
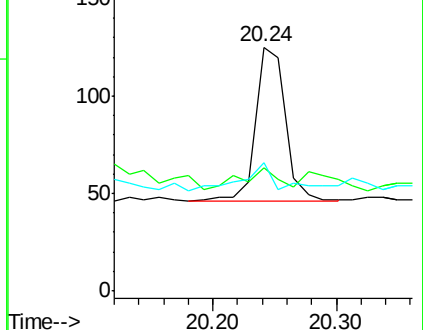
122 52.8 8.1 12.1#

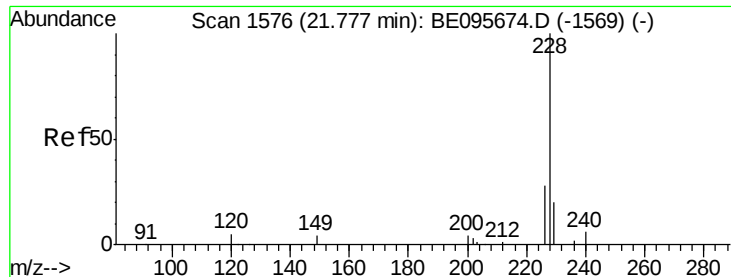


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 0.077 ng

RT: 21.78 min Scan# 2027

Delta R.T. 0.00 min

Lab File: BE095711.D

Acq: 6 Mar 2018 23:22

Instrument :

BNA_E

ClientSampleId :

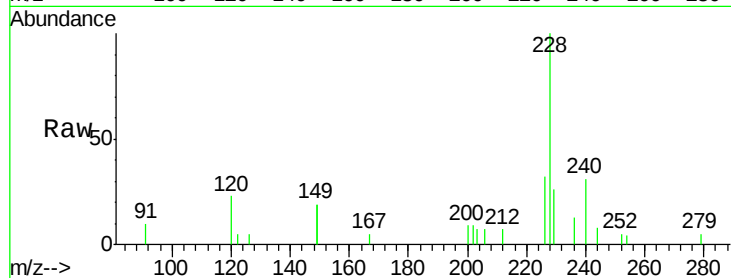
Tot Ion:228 Resp: 1926

Ion Ratio Lower Upper

228 100

226 32.1 24.0 36.0

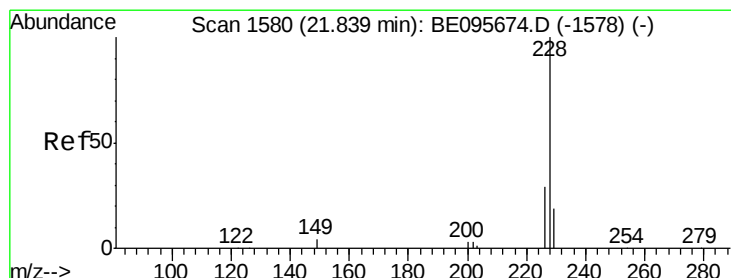
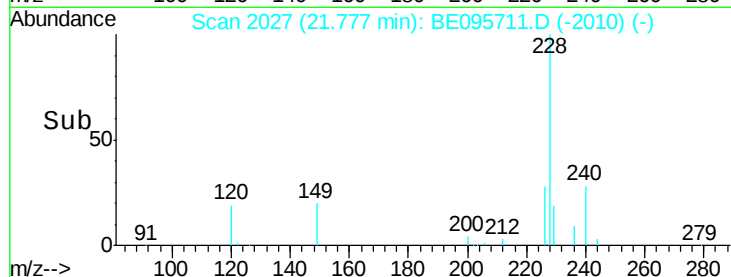
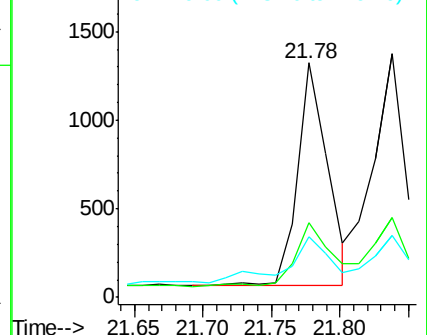
229 25.7 16.0 24.0#



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: 0.084 ng

RT: 21.84 min Scan# 2032

Delta R.T. -0.00 min

Lab File: BE095711.D

Acq: 6 Mar 2018 23:22

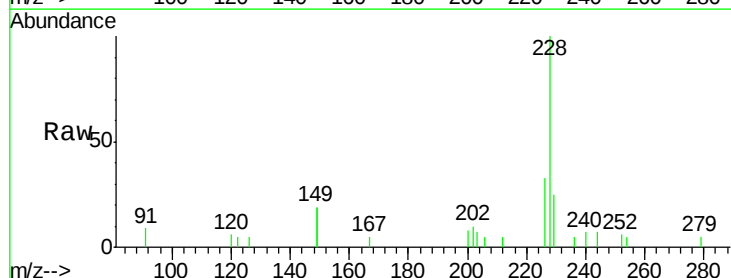
Tgt Ion:228 Resp: 2110

Ion Ratio Lower Upper

228 100

226 32.9 24.0 36.0

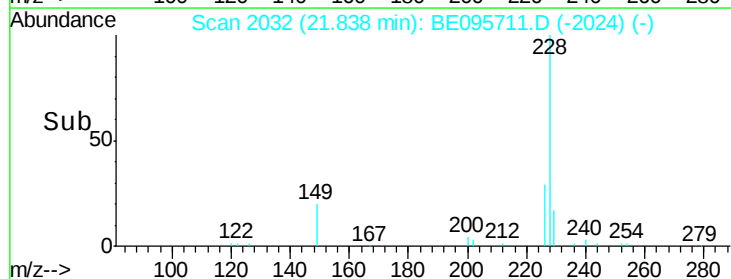
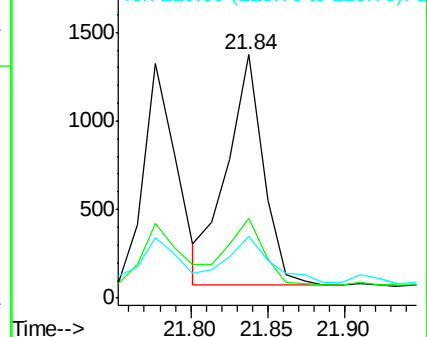
229 25.4 16.0 24.0#

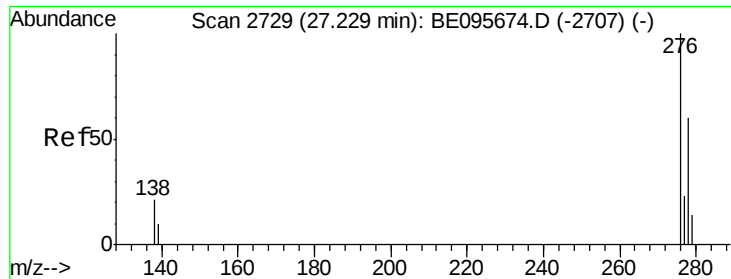


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

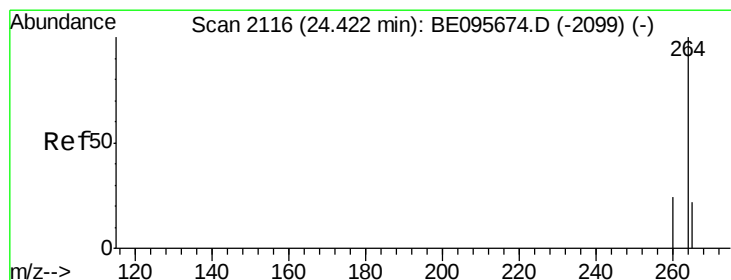
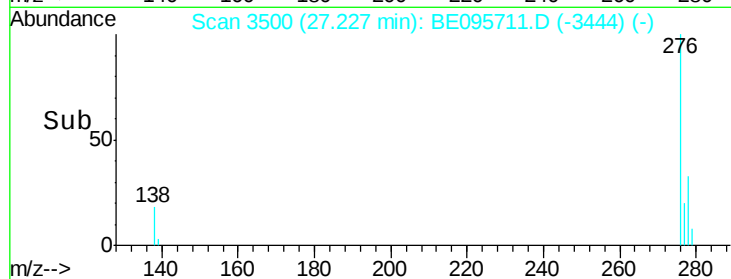
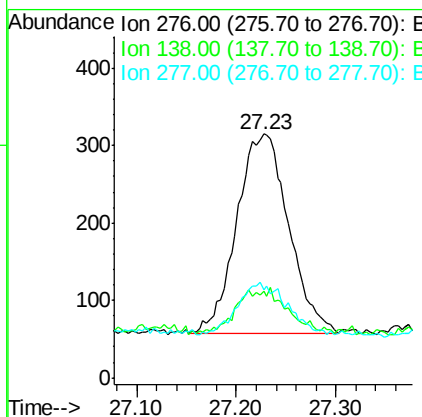
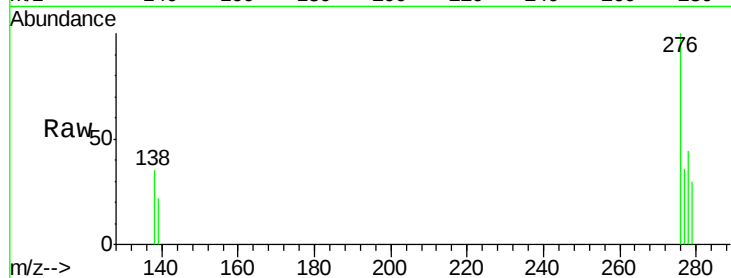




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.039 ng
 RT: 27.23 min Scan# 3500
 Delta R.T. -0.00 min
 Lab File: BE095711.D
 Acq: 6 Mar 2018 23:22

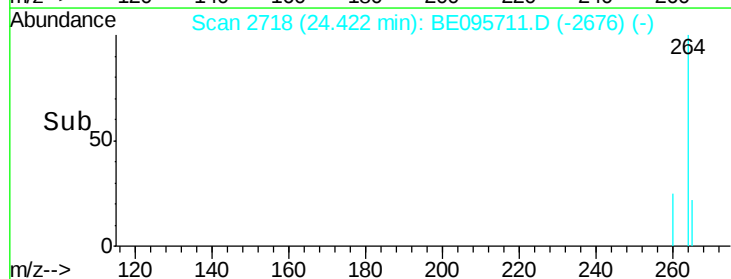
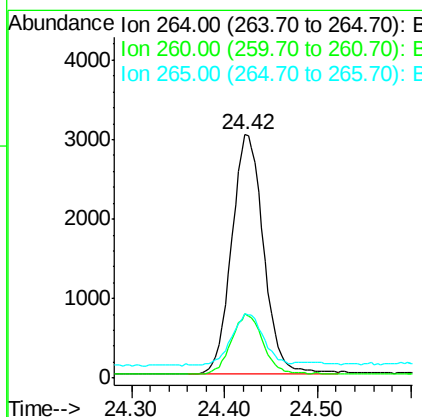
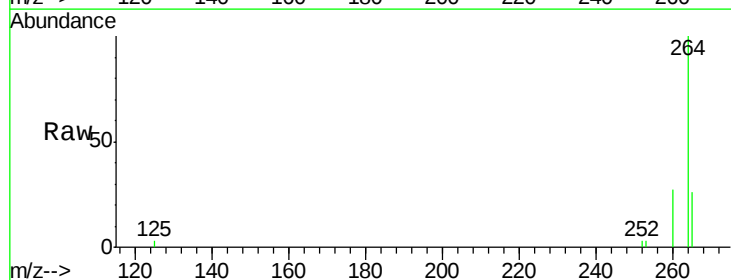
Instrument :
 BNA_E
 ClientSampleId :

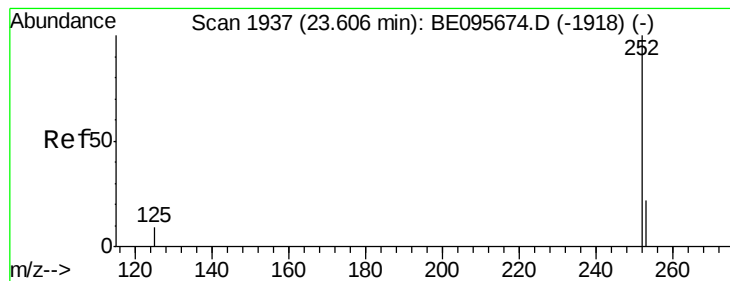
Tot Ion:276 Resp: 935
 Ion Ratio Lower Upper
 276 100
 138 7.9 22.5 33.7#
 277 25.1 19.9 29.9



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 24.42 min Scan# 2718
 Delta R.T. 0.00 min
 Lab File: BE095711.D
 Acq: 6 Mar 2018 23:22

Tgt Ion:264 Resp: 7190
 Ion Ratio Lower Upper
 264 100
 260 26.6 20.5 30.7
 265 26.3 22.8 34.2





#35

Benzo(b)fluoranthene

Concen: 0.066 ng

RT: 23.61 min Scan# 2490

Delta R.T. 0.00 min

Lab File: BE095711.D

Acq: 6 Mar 2018 23:22

Instrument :

BNA_E

ClientSampleId :

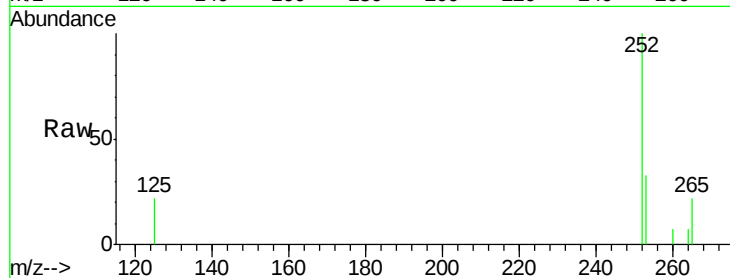
Tot Ion:252 Resp: 1692

Ion Ratio Lower Upper

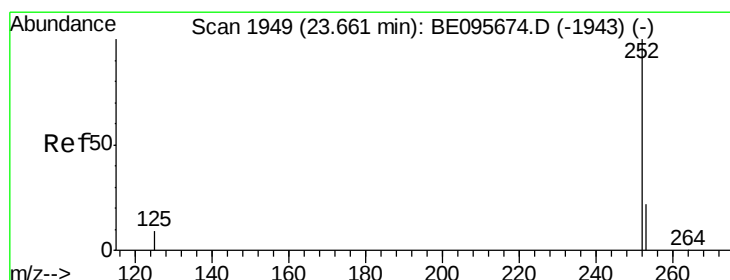
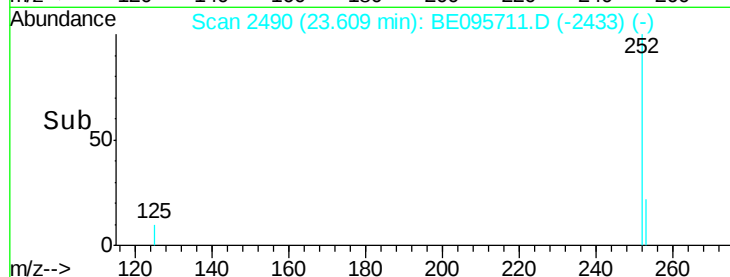
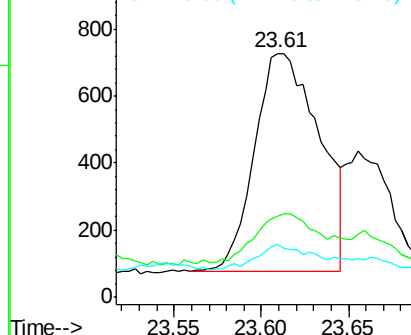
252 100

253 33.1 20.0 30.0#

125 21.8 16.0 24.0



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#36

Benzo(k)fluoranthene

Concen: 0.066 ng

RT: 23.61 min Scan# 2490

Delta R.T. -0.05 min

Lab File: BE095711.D

Acq: 6 Mar 2018 23:22

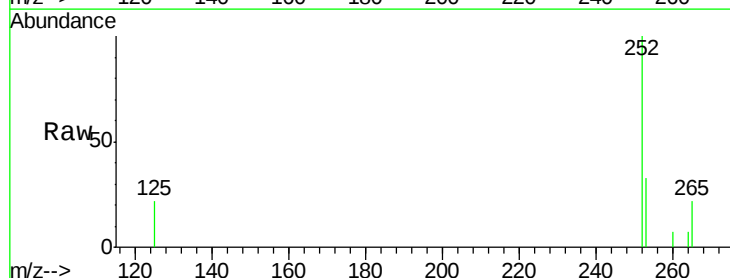
Tgt Ion:252 Resp: 1692

Ion Ratio Lower Upper

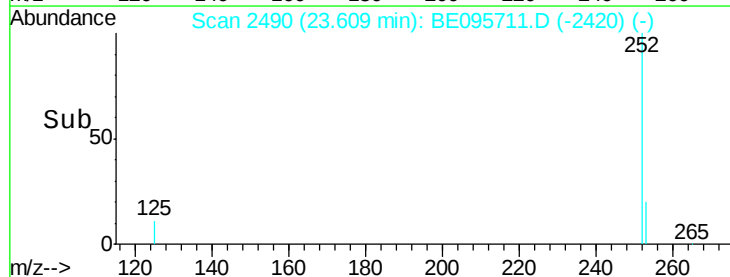
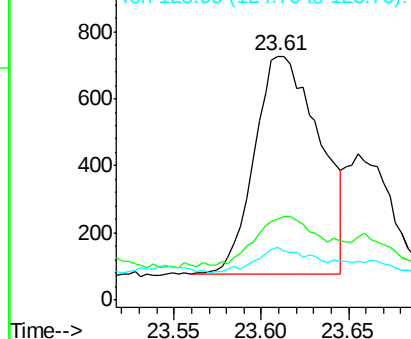
252 100

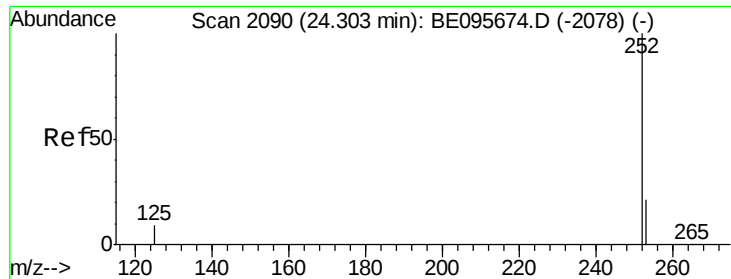
253 33.1 16.0 24.0#

125 21.8 8.0 12.0#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.066 ng

RT: 24.30 min Scan# 2685

Delta R.T. 0.00 min

Lab File: BE095711.D

Acq: 6 Mar 2018 23:22

Instrument :

BNA_E

ClientSampleId :

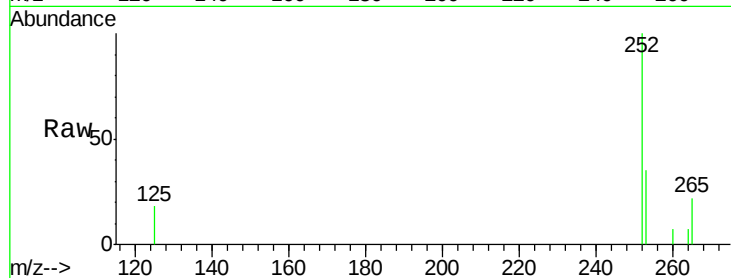
Tot Ion:252 Resp: 1523

Ion Ratio Lower Upper

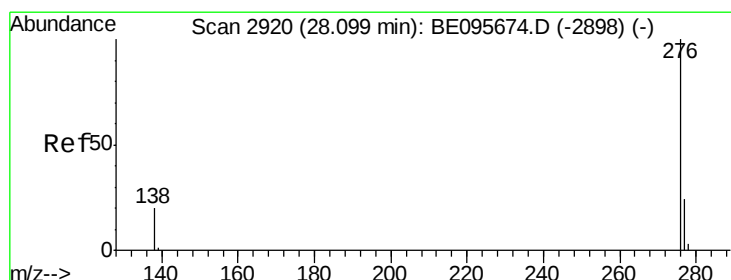
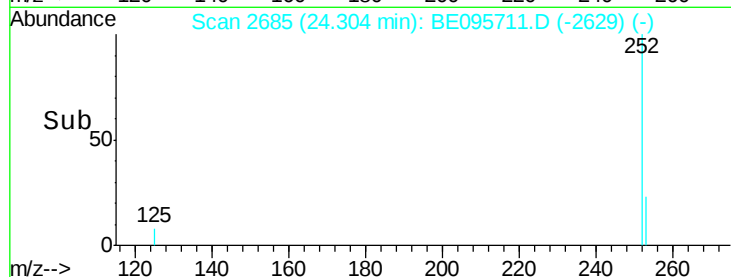
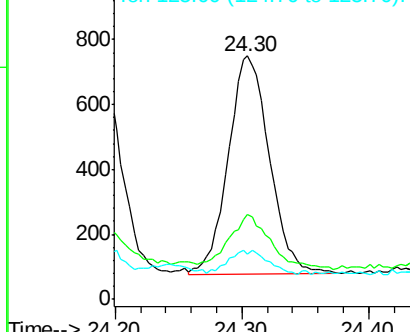
252 100

253 34.9 16.0 24.0#

125 18.4 12.0 18.0#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#39

Benzo(g,h,i)perylene

Concen: 0.063 ng

RT: 28.11 min Scan# 3747

Delta R.T. 0.01 min

Lab File: BE095711.D

Acq: 6 Mar 2018 23:22

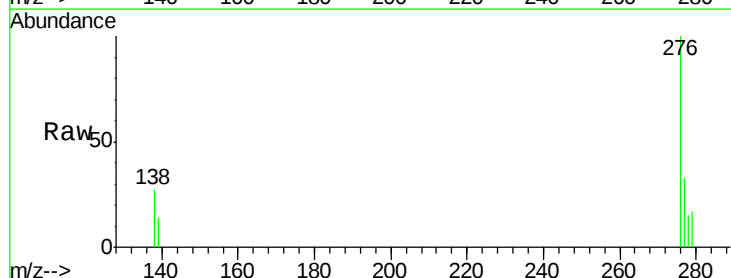
Tgt Ion:276 Resp: 1378

Ion Ratio Lower Upper

276 100

277 33.0 16.0 24.0#

138 27.1 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

