

Data Path : Z:\HPCHEM1\BNA E\DATA\BE030618\
 Data File : BE095705.D
 Acq On : 6 Mar 2018 19:47
 Operator : SJ/JU
 Sample : J1811-01MSD 20X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 07 01:11:31 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	1431	0.40	ng	0.00
7) Naphthalene-d8	11.27	136	5655	0.40	ng	0.00
13) Acenaphthene-d10	15.00	164	3226	0.40	ng	0.00
19) Phenanthrene-d10	17.71	188	7467	0.40	ng	0.00
27) Chrysene-d12	21.80	240	7601	0.40	ng	0.00
34) Perylene-d12	24.43	264	7263	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.92	112	40	0.01	ng	0.00
5) Phenol-d6	7.57	99	57	0.01	ng	0.01
8) Nitrobenzene-d5	9.61	82	87	0.01	ng	0.00
11) 2-Methylnaphthalene-d10	12.81	152	136	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	196	0.01	ng	0.00
25) Fluoranthene-d10	19.68	212	1041	0.01	ng	0.00
29) Terphenyl-d14	20.24	244	183	0.01	ng	0.00

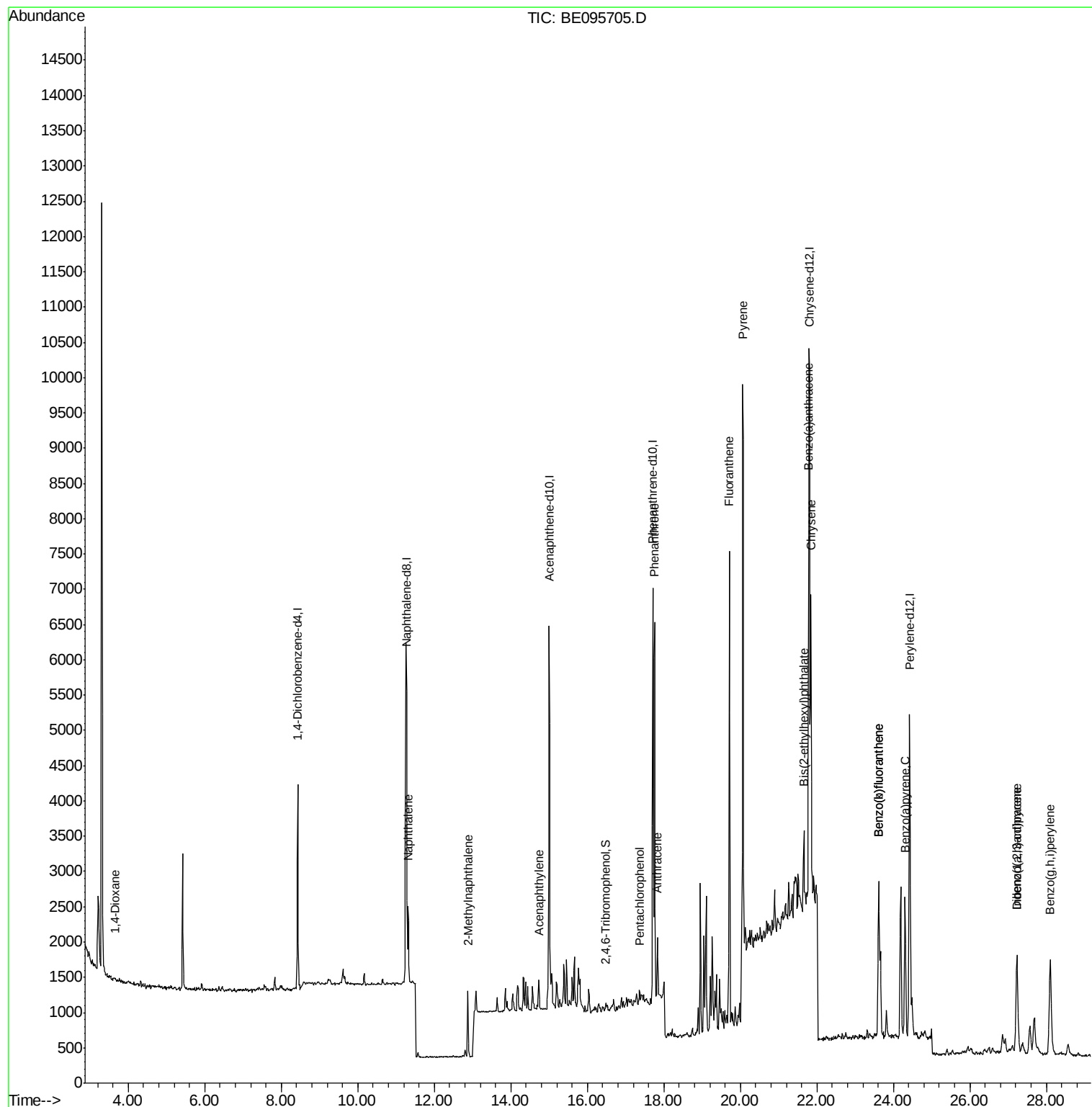
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.65	88	72	0.032	ng	# 65
9) Naphthalene	11.31	128	1849	0.028	ng	# 90
12) 2-Methylnaphthalene	12.88	142	680	0.060	ng	# 93
16) Acenaphthylene	14.74	152	441	0.024	ng	# 84
22) Pentachlorophenol	17.36	266	27	0.194	ng	90
23) Phenanthrene	17.75	178	5989	0.257	ng	98
24) Anthracene	17.84	178	986	0.046	ng	# 90
26) Fluoranthene	19.72	202	6427	0.224	ng	96
28) Pyrene	20.06	202	12152	0.391	ng	97
30) Benzo(a)anthracene	21.78	228	4208	0.170	ng	# 95
31) Chrysene	21.84	228	4475	0.181	ng	# 93
32) Bis(2-ethylhexyl)phthalate	21.66	149	1469	0.033	ng	# 95
33) Indeno(1,2,3-cd)pyrene	27.23	276	2418	0.101	ng	# 93
35) Benzo(b)fluoranthene	23.61	252	4217	0.163	ng	93
36) Benzo(k)fluoranthene	23.61	252	4217	0.164	ng	# 83
37) Benzo(a)pyrene	24.30	252	3483	0.149	ng	# 88
38) Dibenzo(a,h)anthracene	27.23	278	498	0.024	ng	# 61
39) Benzo(a,h,i)perylene	28.10	276	3539	0.159	ng	# 91

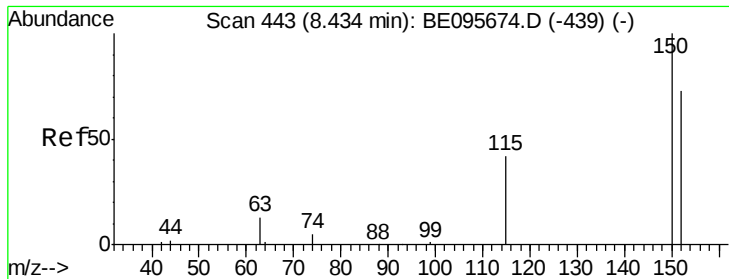
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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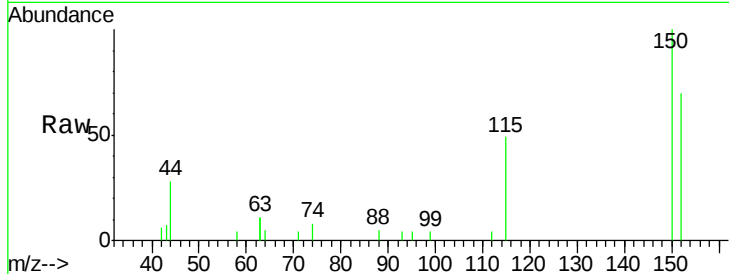


#1

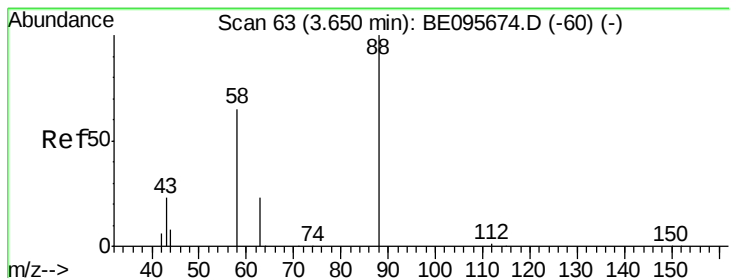
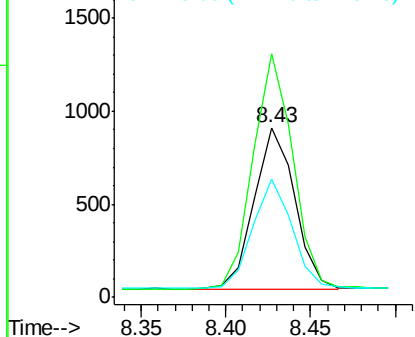
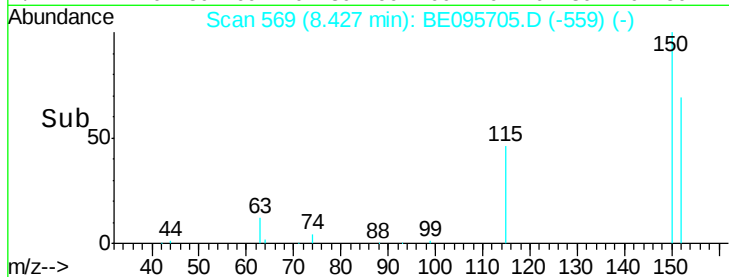
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.43 min Scan# 569
Delta R.T. -0.01 min
Lab File: BE095705.D
Acq: 6 Mar 2018 19:47

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 1431
Ion Ratio Lower Upper
152 100
150 143.7 117.2 175.8
115 70.0 57.0 85.6



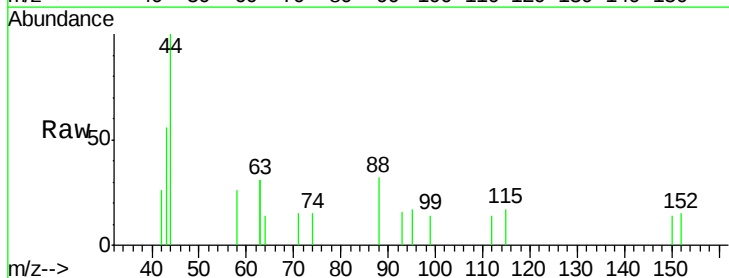
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



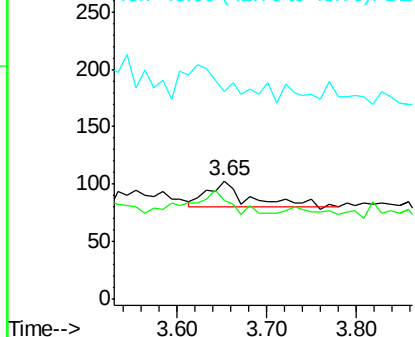
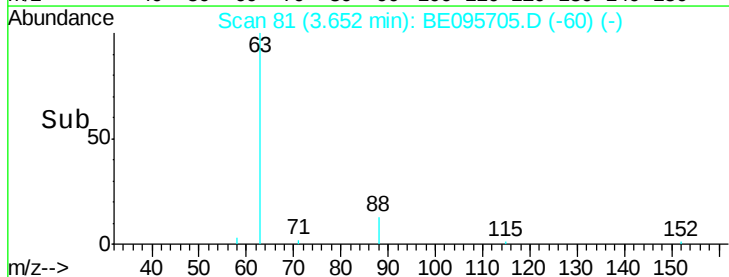
#2

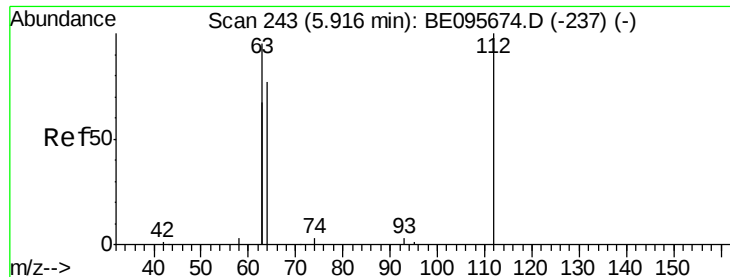
1,4-Dioxane
Concen: 0.032 ng
RT: 3.65 min Scan# 81
Delta R.T. 0.00 min
Lab File: BE095705.D
Acq: 6 Mar 2018 19:47

Tgt Ion: 88 Resp: 72
Ion Ratio Lower Upper
88 100
58 87.5 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: 0.011 ng

RT: 5.92 min Scan# 313

Delta R.T. 0.01 min

Lab File: BE095705.D

Acq: 6 Mar 2018 19:47

Instrument :

BNA_E

ClientSampleId :

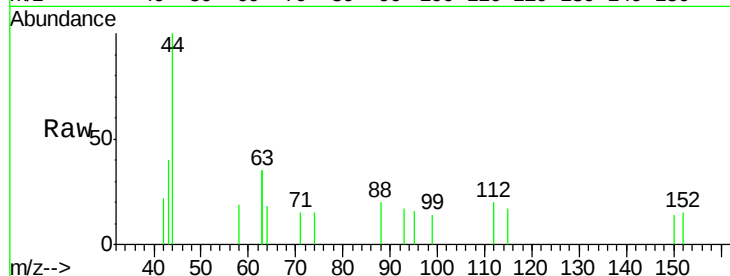
Tot Ion:112 Resp: 40

Ion Ratio Lower Upper

112 100

64 95.0 60.1 90.1#

63 187.5 116.8 175.2#



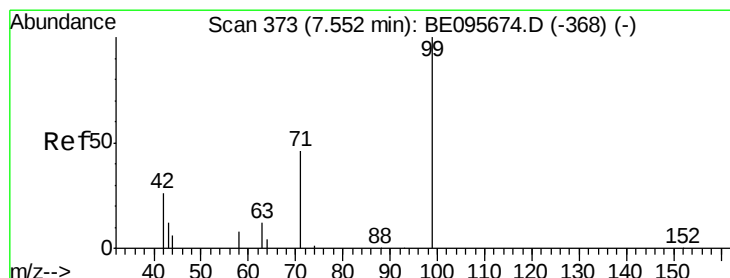
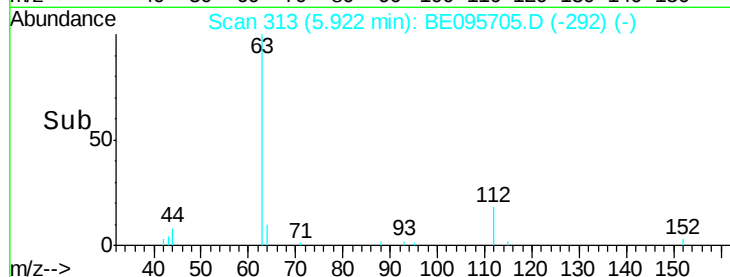
Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Time-->

5.85 5.90 5.95 6.00



#5

Phenol-d6

Concen: 0.011 ng

RT: 7.57 min Scan# 481

Delta R.T. 0.01 min

Lab File: BE095705.D

Acq: 6 Mar 2018 19:47

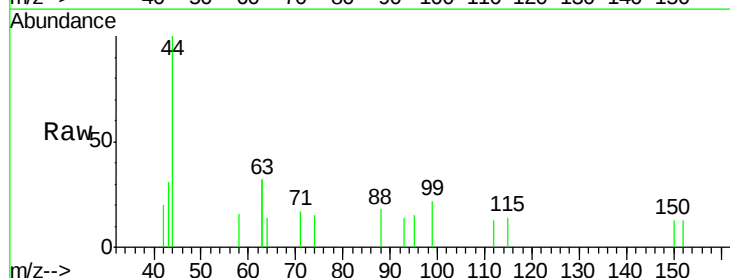
Tgt Ion: 99 Resp: 57

Ion Ratio Lower Upper

99 100

42 33.3 20.2 30.2#

71 71.9 28.4 42.6#



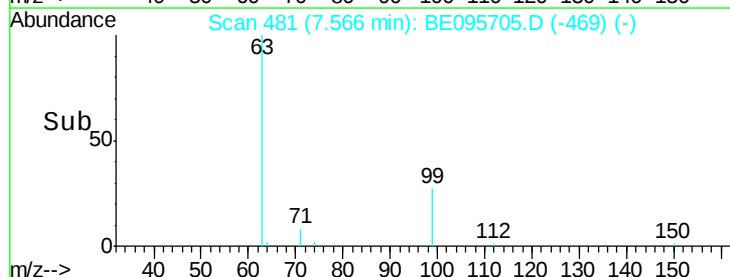
Abundance Ion 99.00 (98.70 to 99.70): BE0

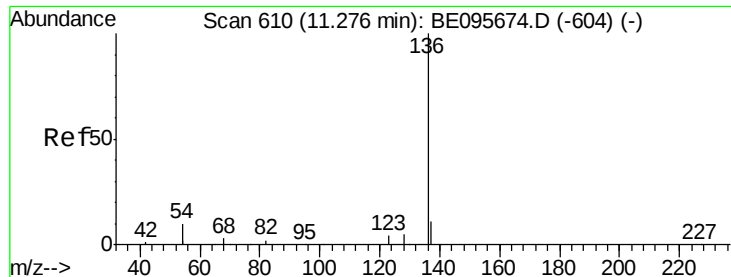
Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0

Time-->

7.50 7.55 7.60





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.27 min Scan# 785

Delta R.T. -0.01 min

Lab File: BE095705.D

Acq: 6 Mar 2018 19:47

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 5655

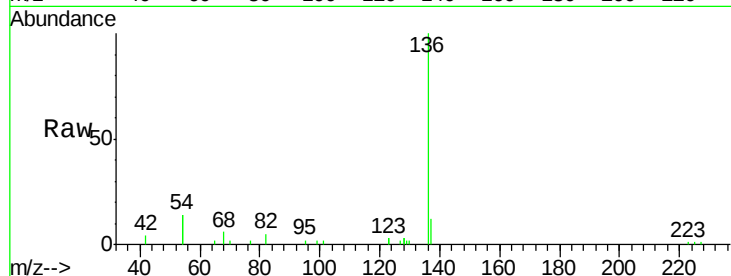
Ion Ratio Lower Upper

136 100

137 12.0 9.5 14.3

54 28.1 29.1 43.7#

68 6.2 6.2 9.2

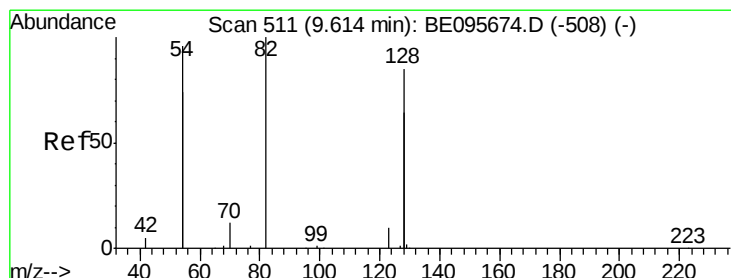
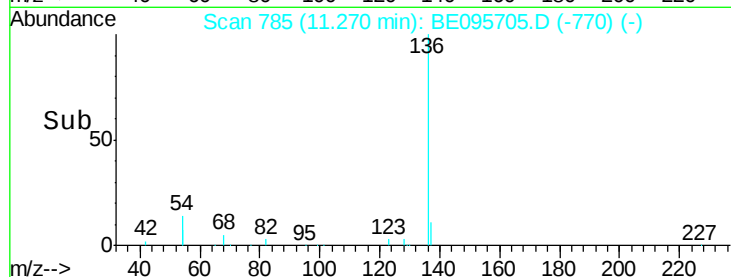
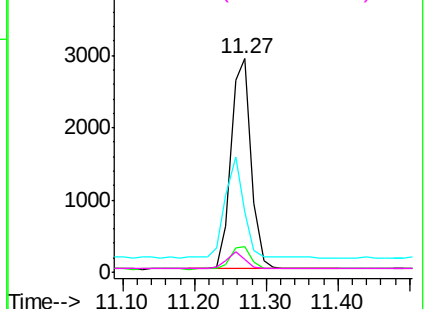


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.015 ng

RT: 9.61 min Scan# 657

Delta R.T. -0.01 min

Lab File: BE095705.D

Acq: 6 Mar 2018 19:47

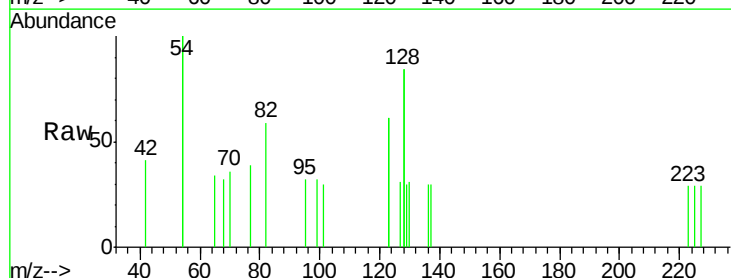
Tgt Ion: 82 Resp: 87

Ion Ratio Lower Upper

82 100

128 282.2 150.0 225.0#

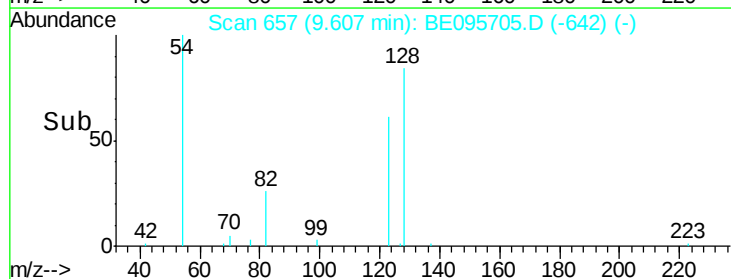
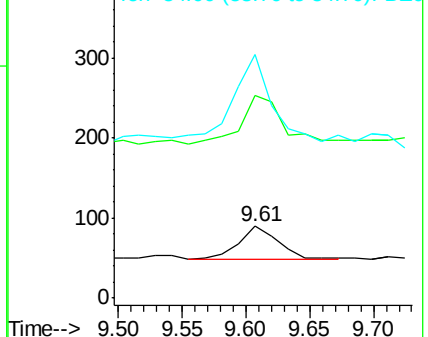
54 337.8 154.2 231.4#

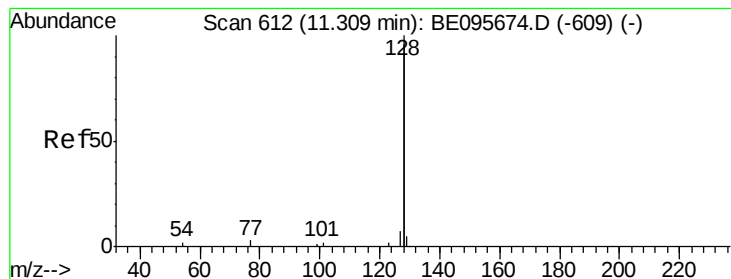


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.028 ng

RT: 11.31 min Scan# 788

Delta R.T. -0.00 min

Lab File: BE095705.D

Acq: 6 Mar 2018 19:47

Instrument :

BNA_E

ClientSampleId :

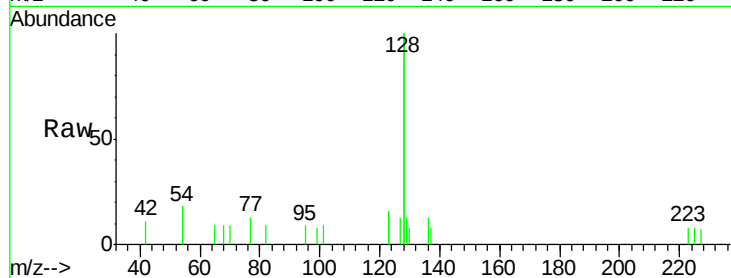
Tot Ion:128 Resp: 1849

Ion Ratio Lower Upper

128 100

129 6.4 2.6 3.8#

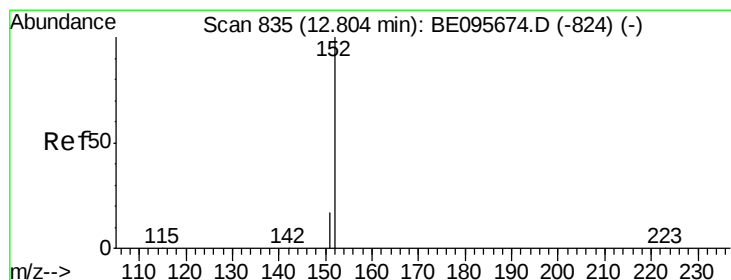
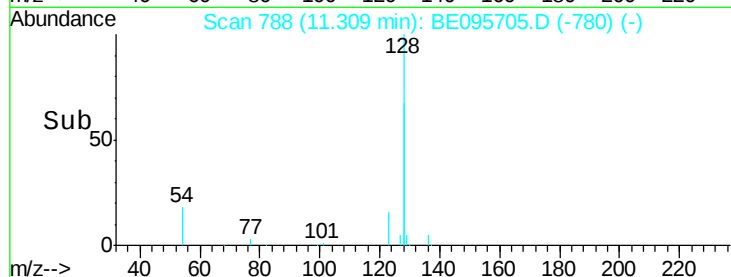
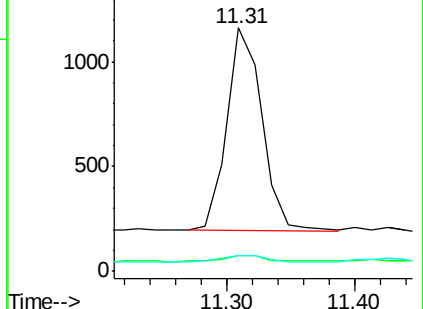
127 6.6 2.8 4.2#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#11

2-Methylnaphthalene-d10

Concen: 0.014 ng

RT: 12.81 min Scan# 1074

Delta R.T. 0.00 min

Lab File: BE095705.D

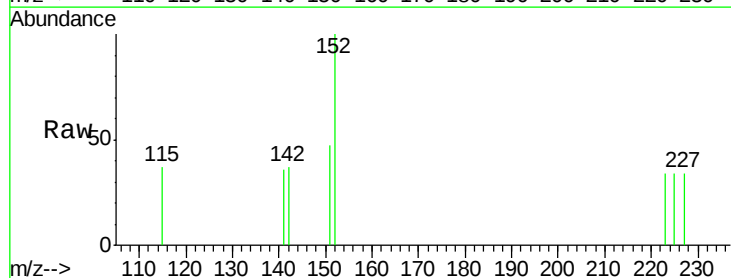
Acq: 6 Mar 2018 19:47

Tgt Ion:152 Resp: 136

Ion Ratio Lower Upper

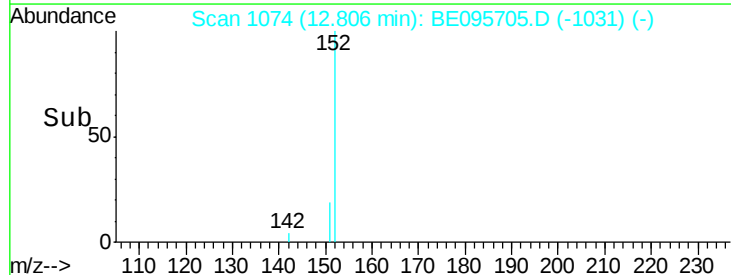
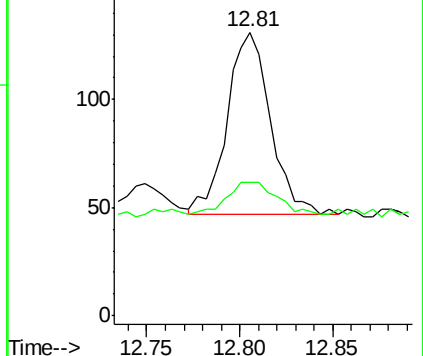
152 100

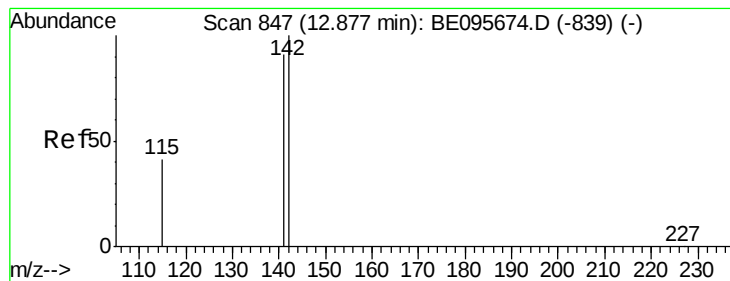
151 21.3 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#12

2-Methylnaphthalene

Concen: 0.060 ng

RT: 12.88 min Scan# 1089

Delta R.T. -0.00 min

Lab File: BE095705.D

Acq: 6 Mar 2018 19:47

Instrument :

BNA_E

ClientSampleId :

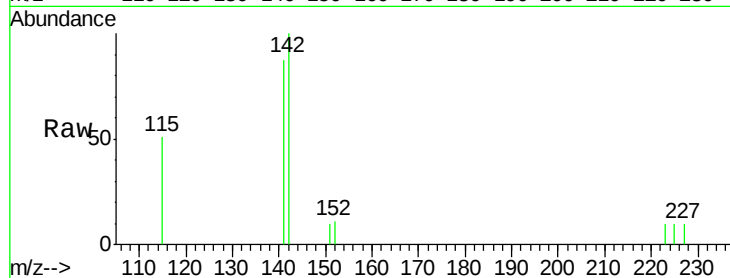
Tot Ion:142 Resp: 680

Ion Ratio Lower Upper

142 100

141 86.7 70.4 105.6

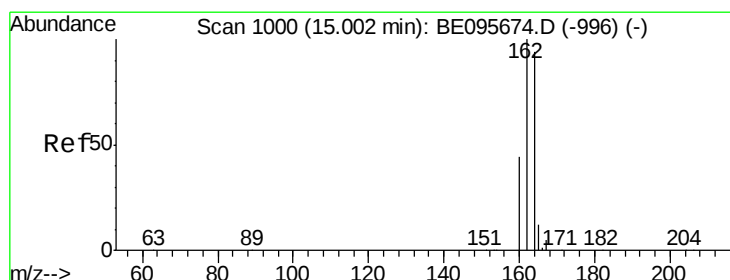
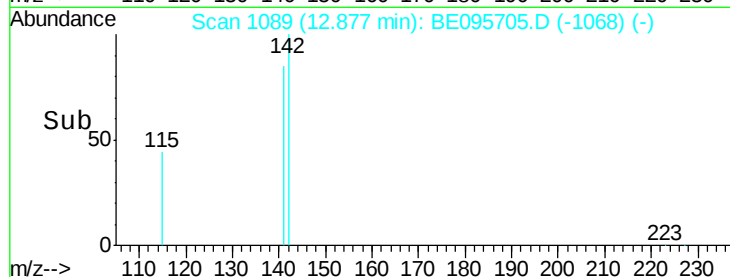
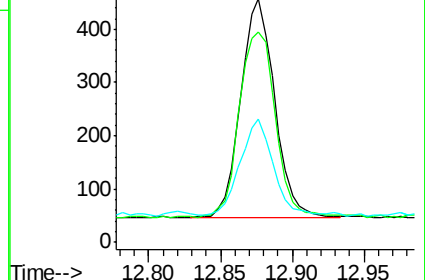
115 50.5 31.7 47.5#



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



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 15.00 min Scan# 1286

Delta R.T. -0.00 min

Lab File: BE095705.D

Acq: 6 Mar 2018 19:47

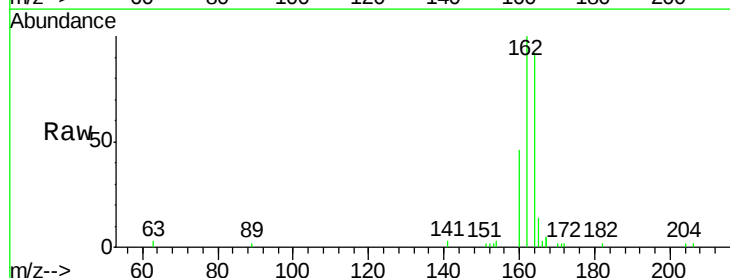
Tgt Ion:164 Resp: 3226

Ion Ratio Lower Upper

164 100

162 108.9 83.1 124.7

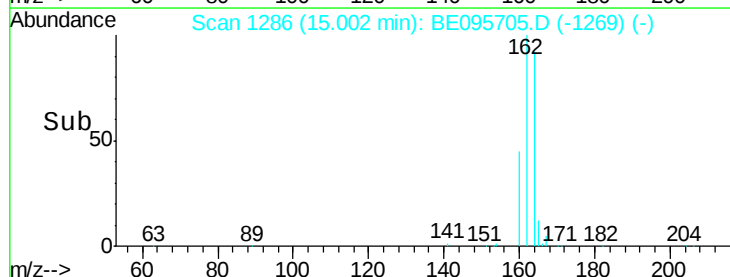
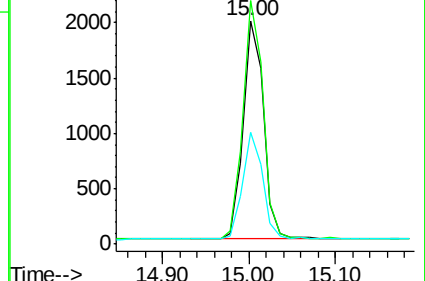
160 49.9 37.1 55.7

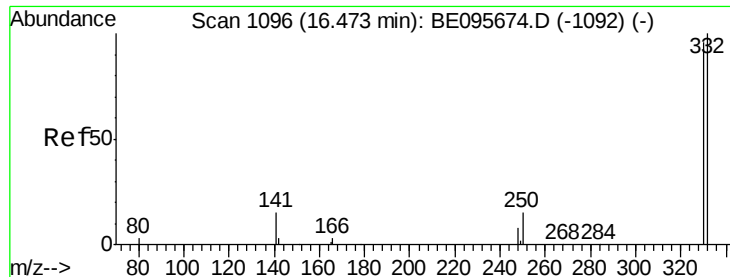


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

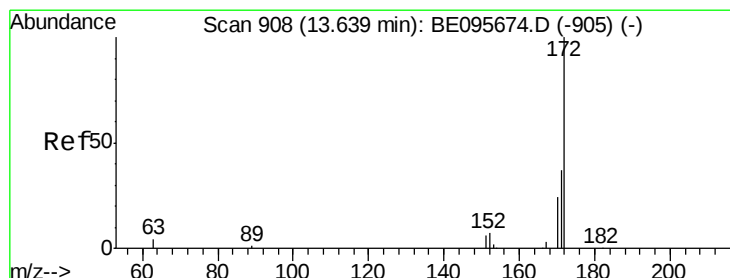
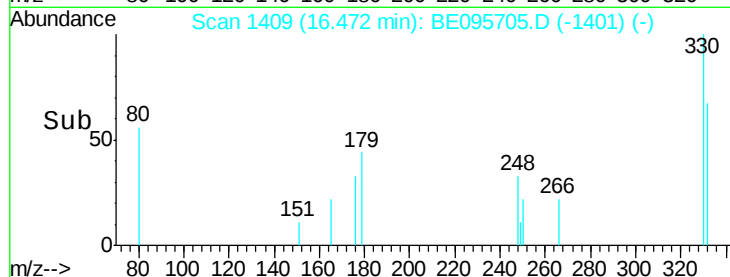
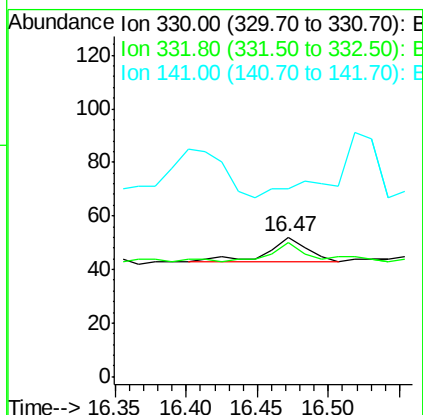
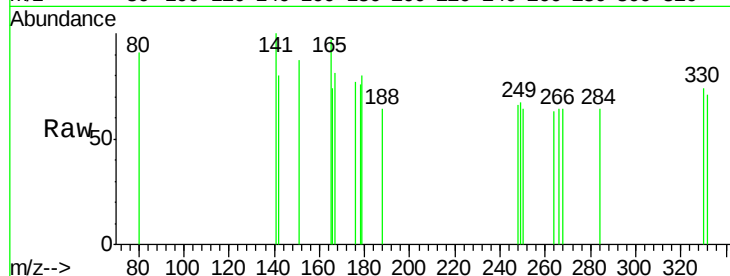




#14
 2,4,6-Tribromophenol
 Concen: 0.127 ng
 RT: 16.47 min Scan# 1409
 Delta R.T. -0.00 min
 Lab File: BE095705.D
 Acq: 6 Mar 2018 19:47

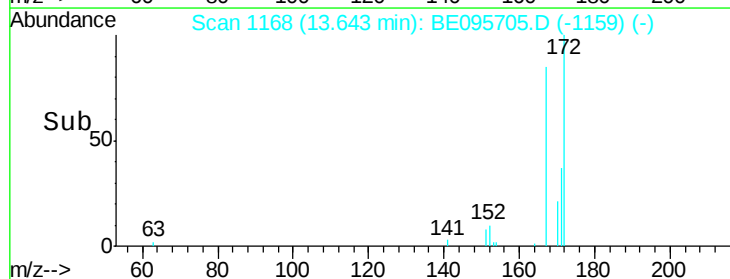
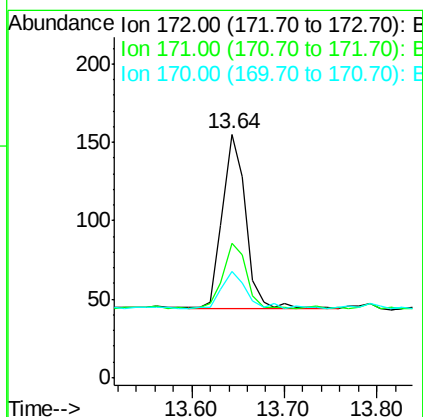
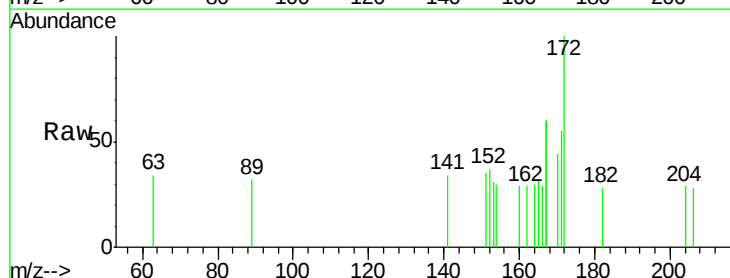
Instrument :
 BNA_E
 ClientSampleId :

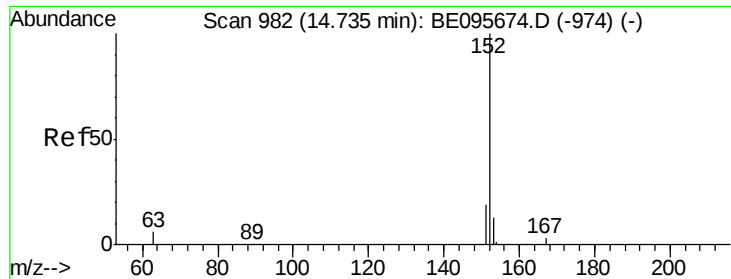
Tot Ion:330 Resp: 17
 Ion Ratio Lower Upper
 330 100
 332 88.2 152.7 229.1#
 141 0.0 33.7 50.5#



#15
 2-Fluorobiphenyl
 Concen: 0.014 ng
 RT: 13.64 min Scan# 1168
 Delta R.T. 0.00 min
 Lab File: BE095705.D
 Acq: 6 Mar 2018 19:47

Tgt Ion:172 Resp: 196
 Ion Ratio Lower Upper
 172 100
 171 55.5 29.9 44.9#
 170 43.9 21.8 32.8#





#16

Acenaphthylene

Concen: 0.024 ng

RT: 14.74 min Scan# 1263

Delta R.T. 0.00 min

Lab File: BE095705.D

Acq: 6 Mar 2018 19:47

Instrument :

BNA_E

ClientSampleId :

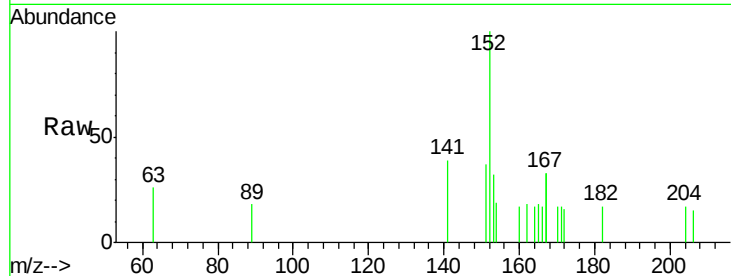
Tot Ion:152 Resp: 441

Ion Ratio Lower Upper

152 100

151 23.8 15.7 23.5#

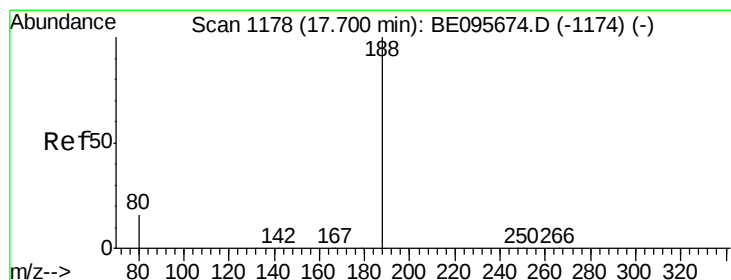
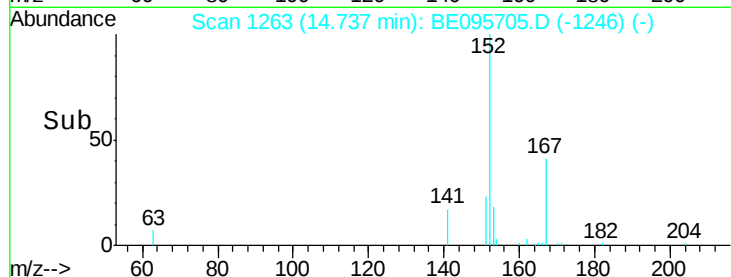
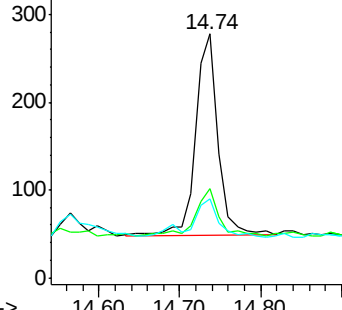
153 23.6 10.5 15.7#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.71 min Scan# 1515

Delta R.T. 0.01 min

Lab File: BE095705.D

Acq: 6 Mar 2018 19:47

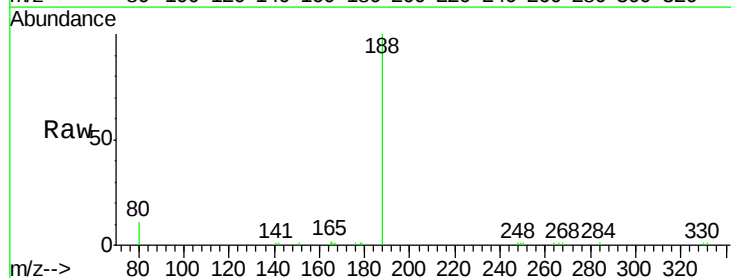
Tgt Ion:188 Resp: 7467

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

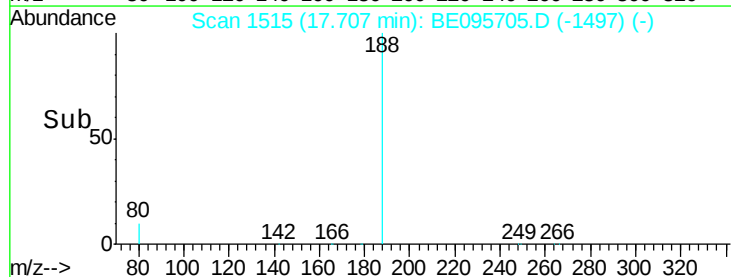
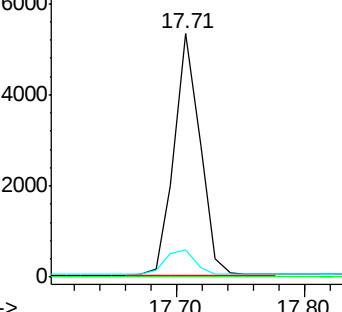
80 11.3 3.6 5.4#

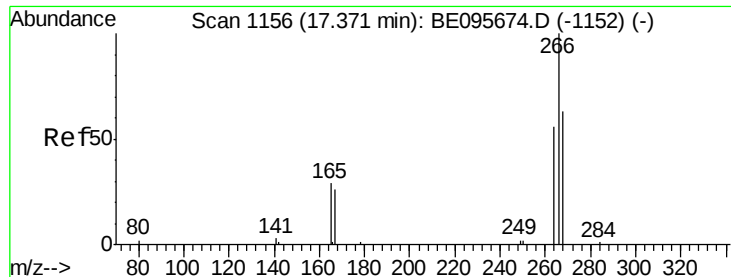


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

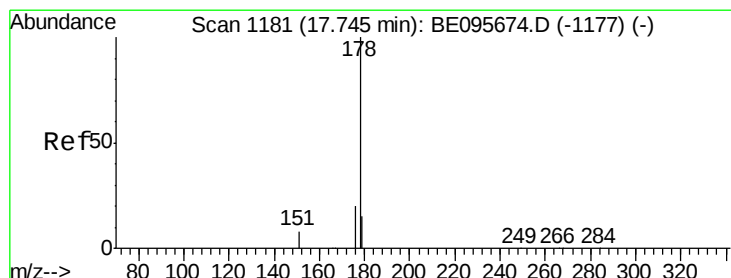
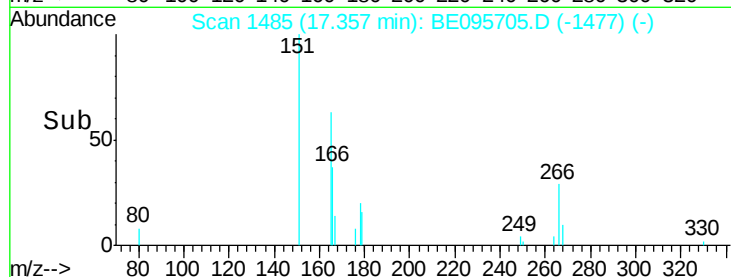
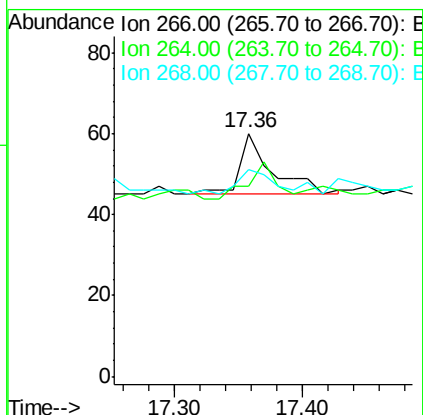
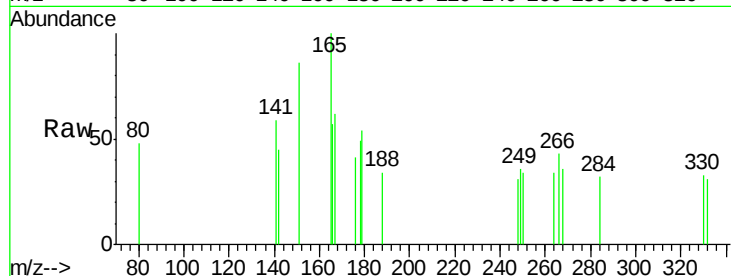




#22
 Pentachlorophenol
 Concen: 0.194 ng
 RT: 17.36 min Scan# 1485
 Delta R.T. -0.01 min
 Lab File: BE095705.D
 Acq: 6 Mar 2018 19:47

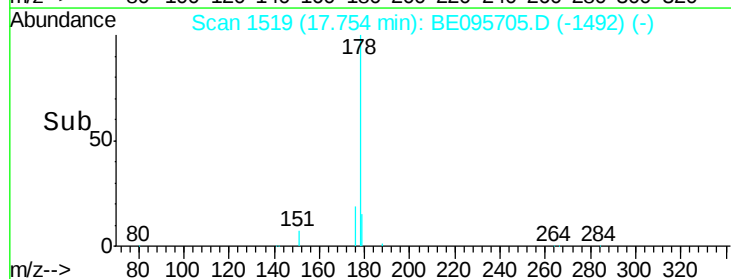
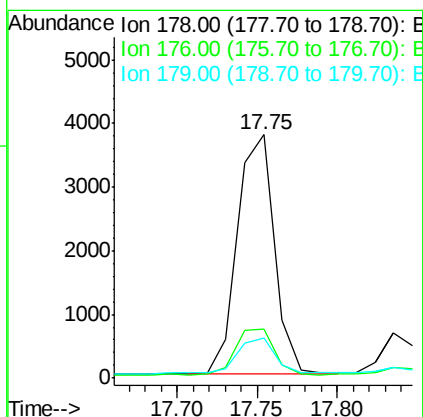
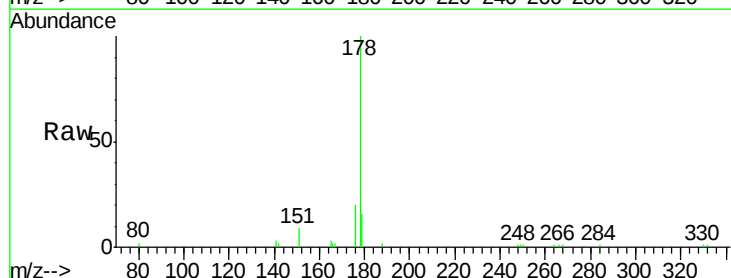
Instrument :
 BNA_E
 ClientSampled :

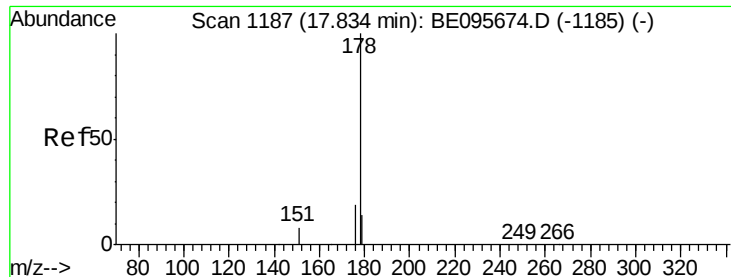
Tot Ion:266 Resp: 27
 Ion Ratio Lower Upper
 266 100
 264 78.3 72.5 108.7
 268 85.0 73.8 110.6



#23
 Phenanthrene
 Concen: 0.257 ng
 RT: 17.75 min Scan# 1519
 Delta R.T. 0.01 min
 Lab File: BE095705.D
 Acq: 6 Mar 2018 19:47

Tgt Ion:178 Resp: 5989
 Ion Ratio Lower Upper
 178 100
 176 20.0 15.1 22.7
 179 15.7 11.8 17.6





#24

Anthracene

Concen: 0.046 ng

RT: 17.84 min Scan# 1526

Delta R.T. 0.00 min

Lab File: BE095705.D

Acq: 6 Mar 2018 19:47

Instrument :

BNA_E

ClientSampled :

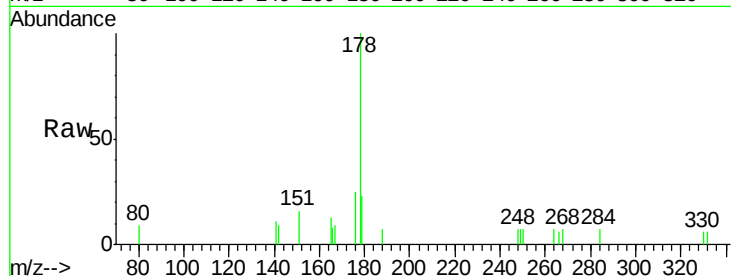
Tot Ion:178 Resp: 986

Ion Ratio Lower Upper

178 100

176 19.1 12.8 19.2

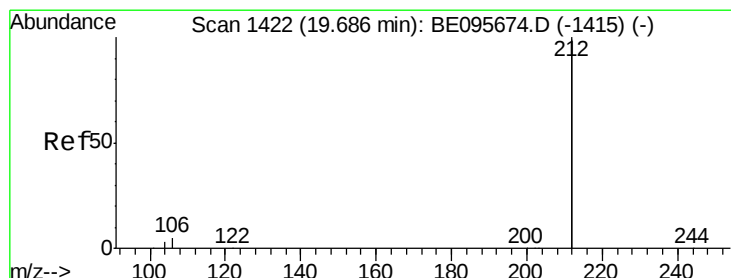
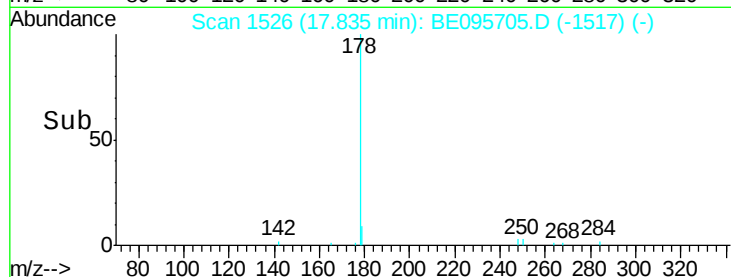
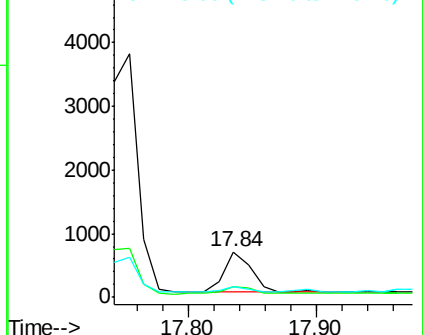
179 10.9 13.0 19.6#



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: 0.011 ng

RT: 19.68 min Scan# 1828

Delta R.T. -0.00 min

Lab File: BE095705.D

Acq: 6 Mar 2018 19:47

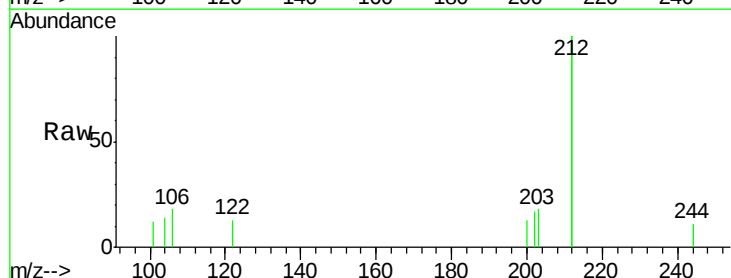
Tgt Ion:212 Resp: 1041

Ion Ratio Lower Upper

212 100

106 3.7 2.8 4.2

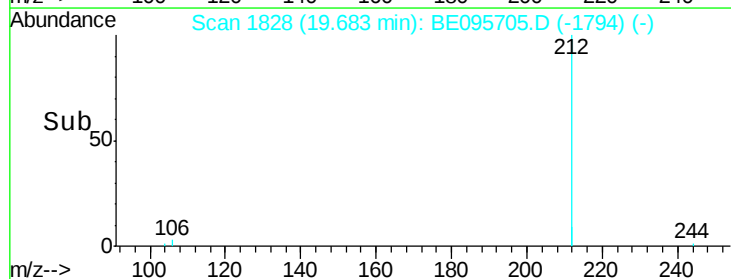
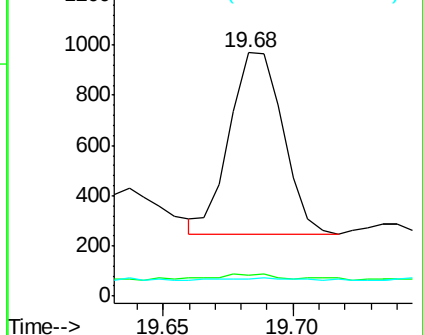
104 2.0 1.6 2.4

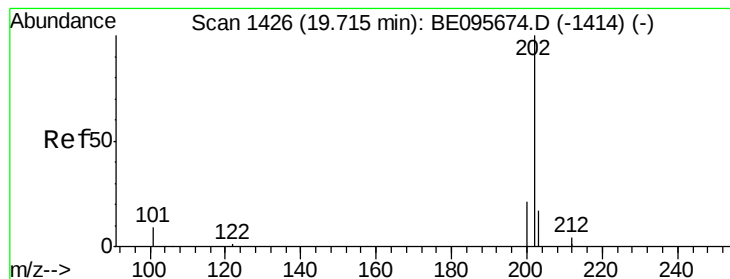


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#26

Fluoranthene

Concen: 0.224 ng

RT: 19.72 min Scan# 1834

Delta R.T. 0.00 min

Lab File: BE095705.D

Acq: 6 Mar 2018 19:47

Instrument :

BNA_E

ClientSampleId :

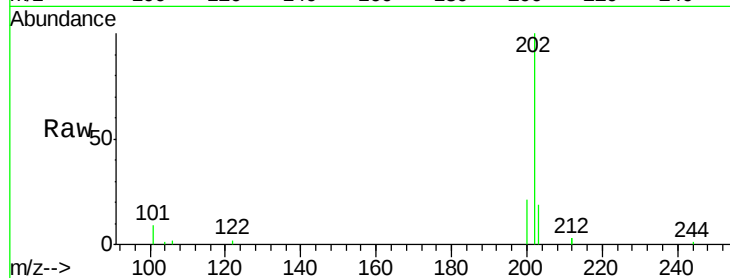
Tot Ion:202 Resp: 6427

Ion Ratio Lower Upper

202 100

101 10.1 9.8 14.8

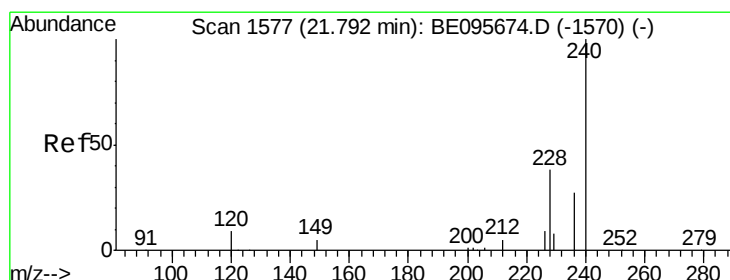
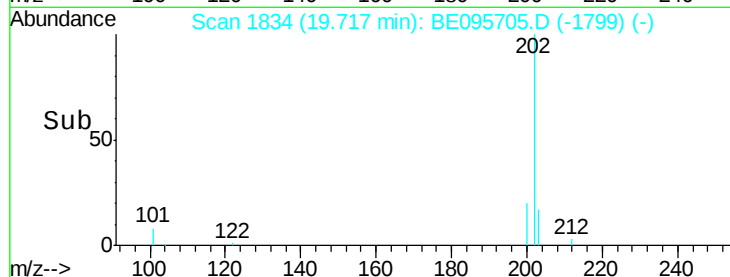
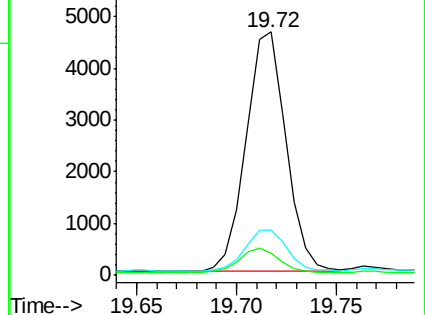
203 18.0 13.7 20.5



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: BE095705.D

Acq: 6 Mar 2018 19:47

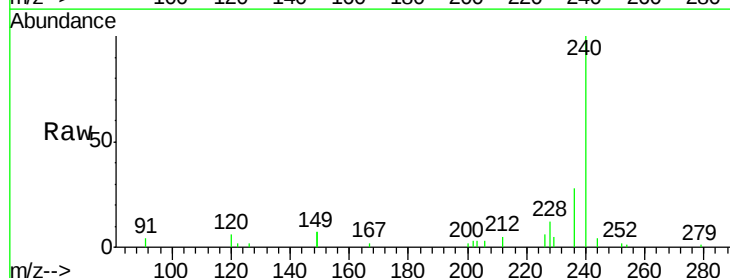
Tgt Ion:240 Resp: 7601

Ion Ratio Lower Upper

240 100

120 5.9 5.5 8.3

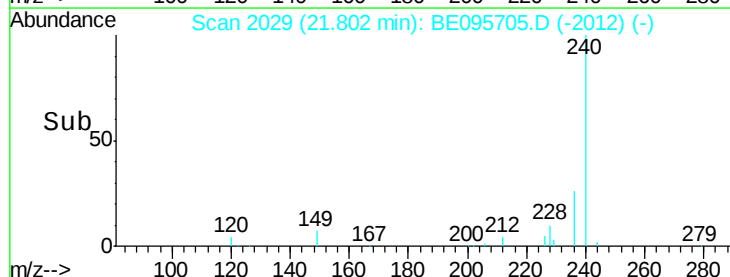
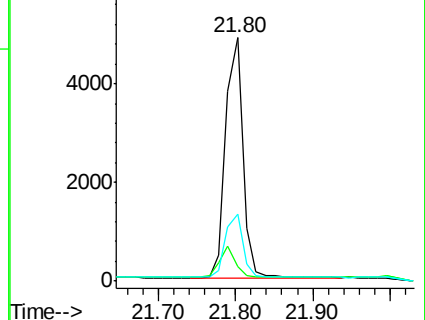
236 27.7 20.7 31.1

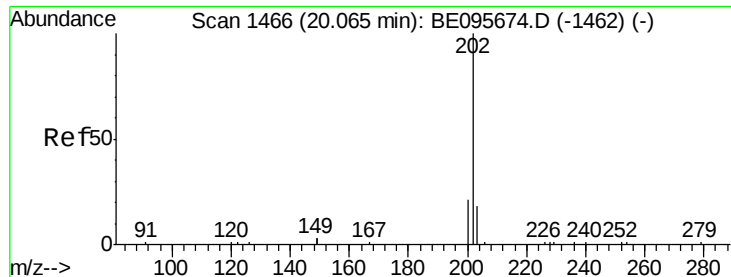


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#28

Pvrene

Concen: 0.391 ng

RT: 20.06 min Scan# 1885

Delta R.T. -0.00 min

Lab File: BE095705.D

Acq: 6 Mar 2018 19:47

Instrument :

BNA_E

ClientSampleId :

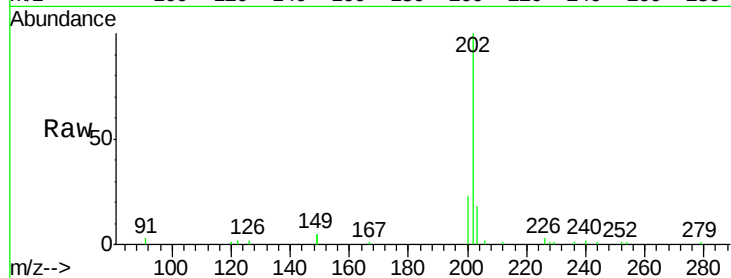
Tot Ion:202 Resp: 12152

Ion Ratio Lower Upper

202 100

200 19.6 16.6 25.0

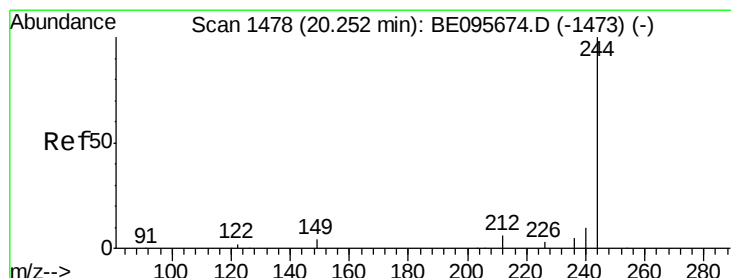
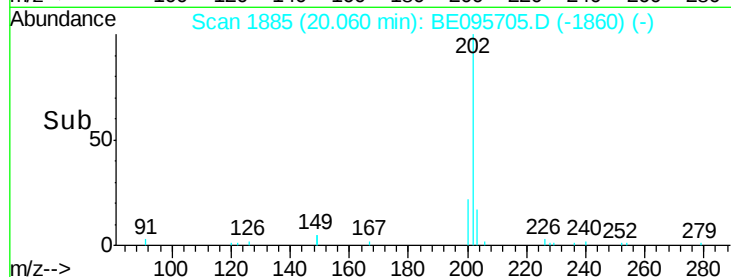
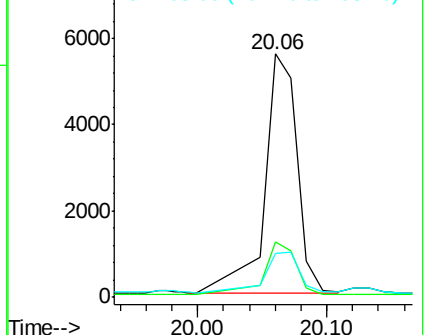
203 18.3 13.8 20.8



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: BE095705.D

Acq: 6 Mar 2018 19:47

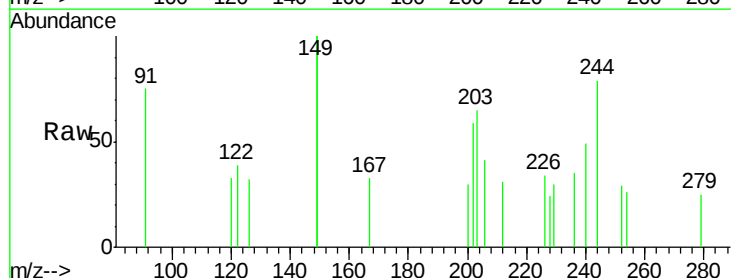
Tgt Ion:244 Resp: 183

Ion Ratio Lower Upper

244 100

212 38.8 25.4 38.0#

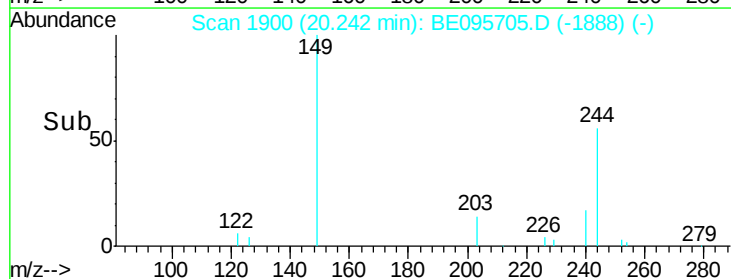
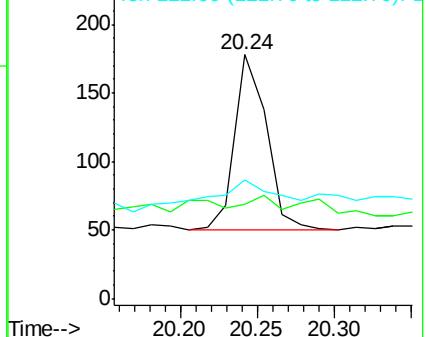
122 48.9 8.1 12.1#

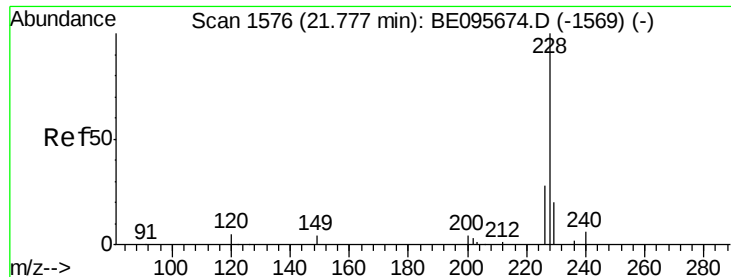


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 0.170 ng

RT: 21.78 min Scan# 2027

Delta R.T. 0.00 min

Lab File: BE095705.D

Acq: 6 Mar 2018 19:47

Instrument :

BNA_E

ClientSampleId :

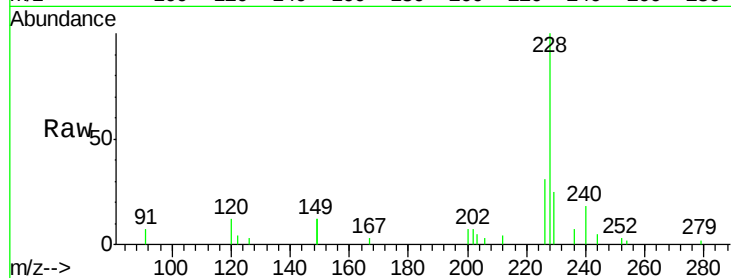
Tot Ion:228 Resp: 4208

Ion Ratio Lower Upper

228 100

226 30.6 24.0 36.0

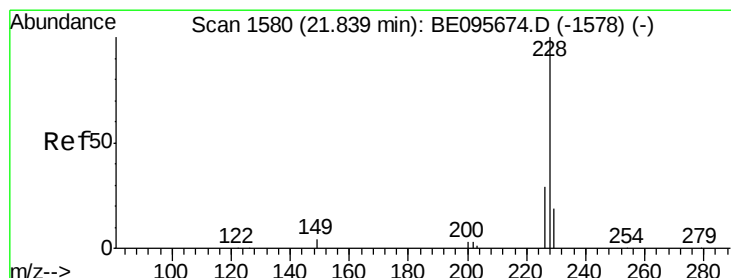
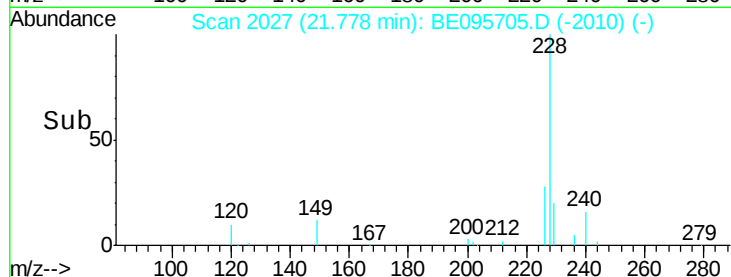
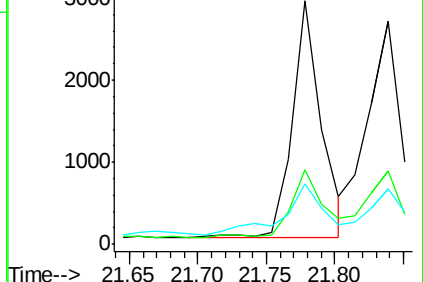
229 24.8 16.0 24.0#



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: 0.181 ng

RT: 21.84 min Scan# 2032

Delta R.T. -0.00 min

Lab File: BE095705.D

Acq: 6 Mar 2018 19:47

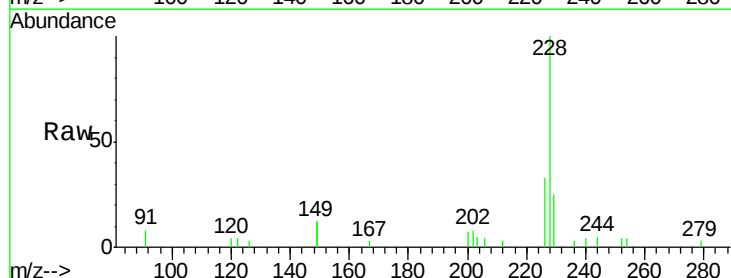
Tgt Ion:228 Resp: 4475

Ion Ratio Lower Upper

228 100

226 32.7 24.0 36.0

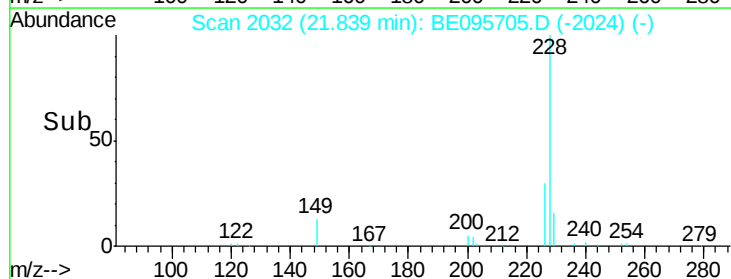
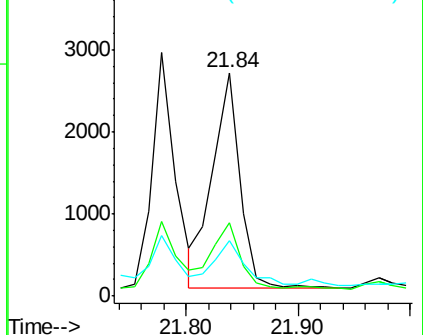
229 24.8 16.0 24.0#

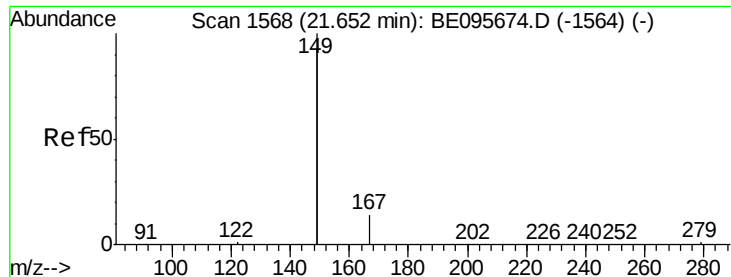


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

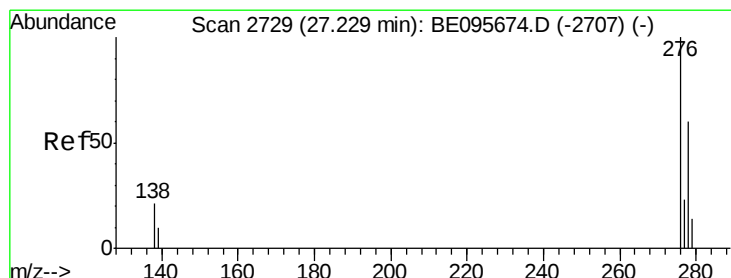
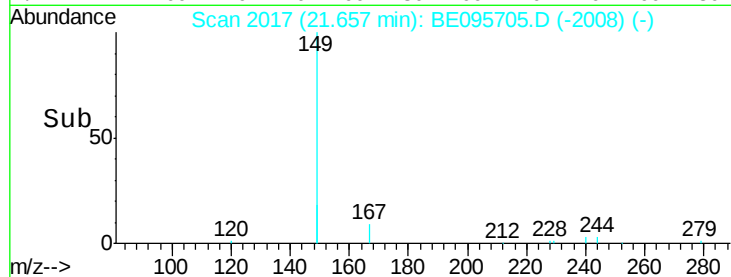
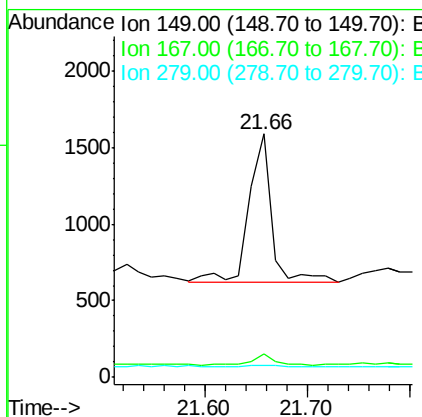
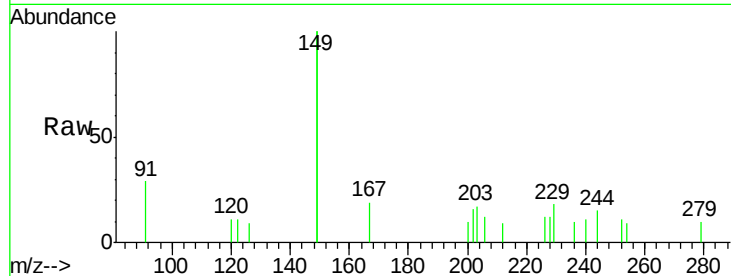




#32
 Bis(2-ethylhexyl)phthalate
 Concen: 0.033 ng
 RT: 21.66 min Scan# 2017
 Delta R.T. 0.00 min
 Lab File: BE095705.D
 Acq: 6 Mar 2018 19:47

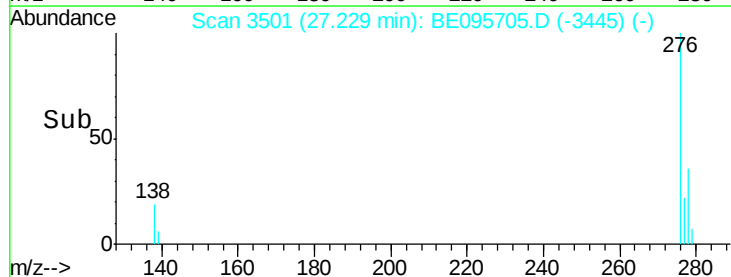
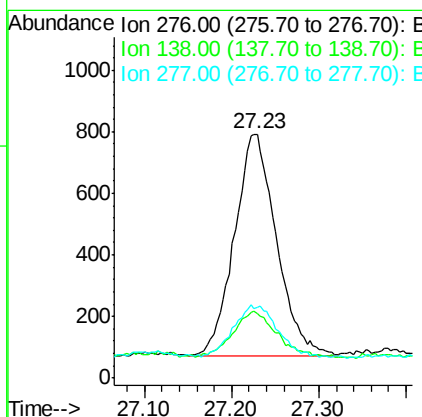
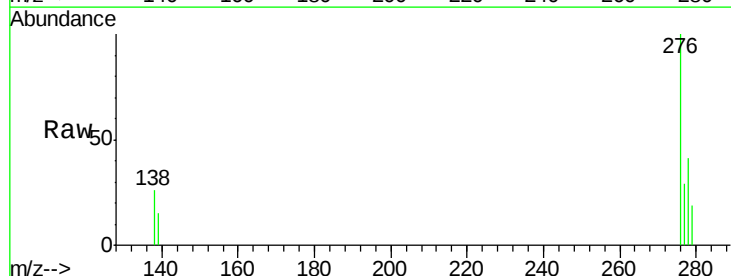
Instrument :
 BNA_E
 ClientSampleId :

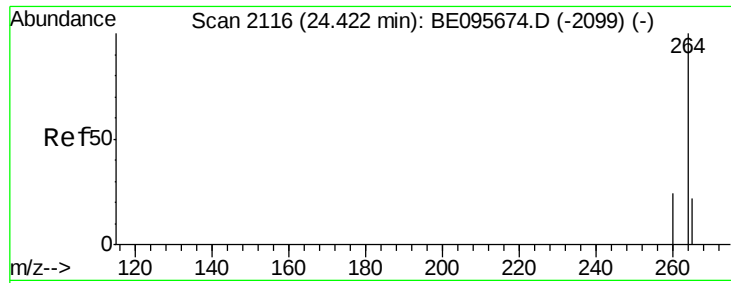
Tot Ion:149 Resp: 1469
 Ion Ratio Lower Upper
 149 100
 167 8.3 5.4 8.0#
 279 3.1 0.7 1.1#



#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.101 ng
 RT: 27.23 min Scan# 3501
 Delta R.T. 0.00 min
 Lab File: BE095705.D
 Acq: 6 Mar 2018 19:47

Tgt Ion:276 Resp: 2418
 Ion Ratio Lower Upper
 276 100
 138 21.3 22.5 33.7#
 277 24.9 19.9 29.9

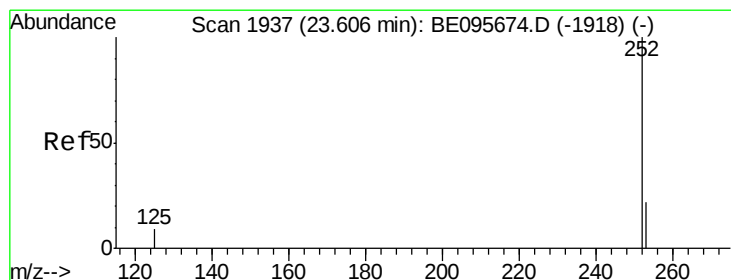
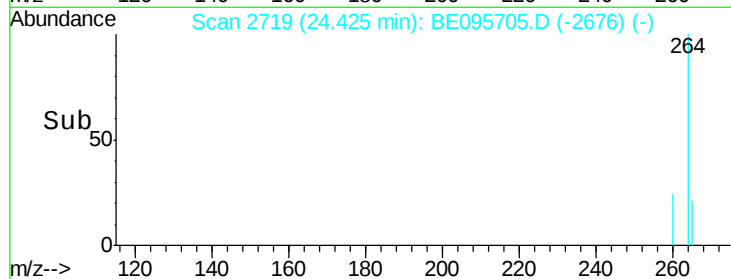
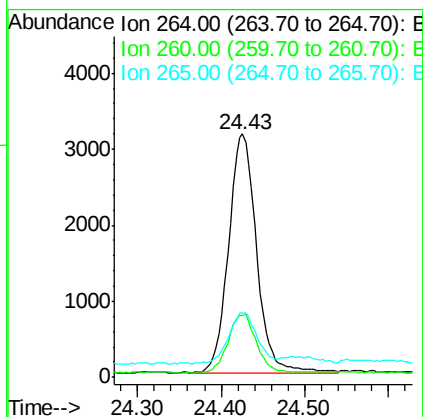
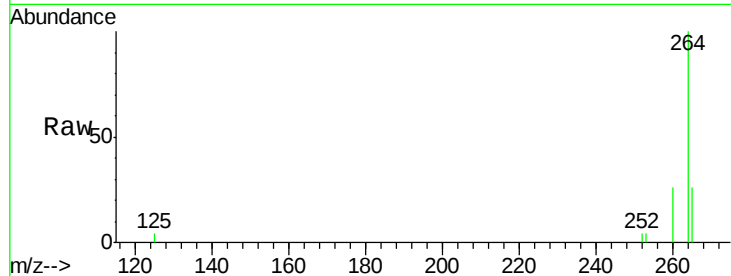




#34
Pervlene-d12
Concen: 0.400 ng
RT: 24.43 min Scan# 2719
Delta R.T. 0.00 min
Lab File: BE095705.D
Acq: 6 Mar 2018 19:47

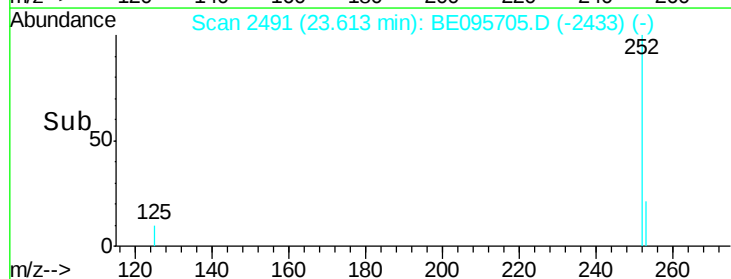
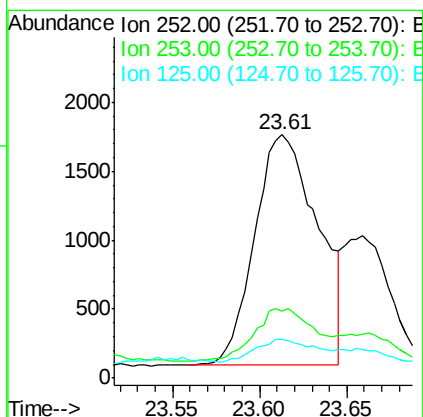
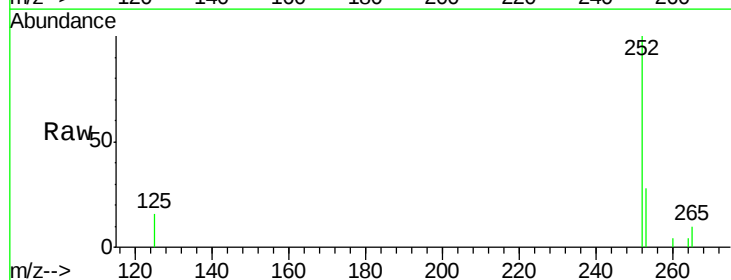
Instrument :
BNA_E
ClientSampleId :

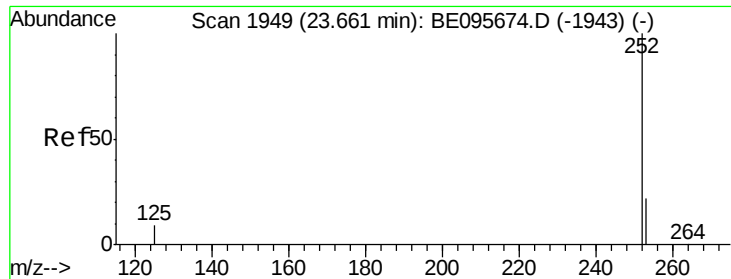
Tot Ion:264 Resp: 7263
Ion Ratio Lower Upper
264 100
260 25.7 20.5 30.7
265 26.3 22.8 34.2



#35
Benzo(b)fluoranthene
Concen: 0.163 ng
RT: 23.61 min Scan# 2491
Delta R.T. 0.01 min
Lab File: BE095705.D
Acq: 6 Mar 2018 19:47

Tgt Ion:252 Resp: 4217
Ion Ratio Lower Upper
252 100
253 27.7 20.0 30.0
125 16.1 16.0 24.0

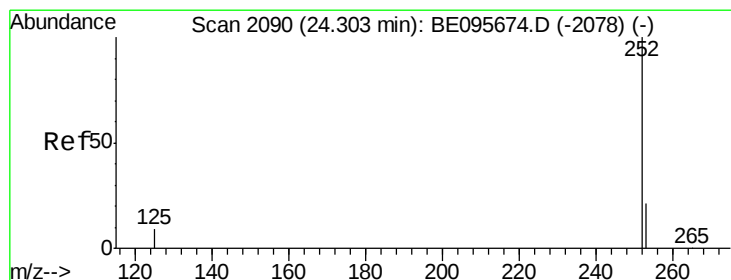
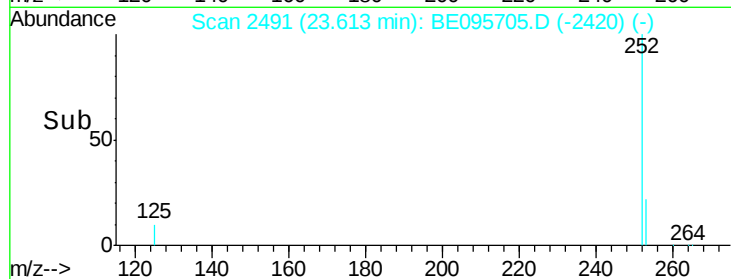
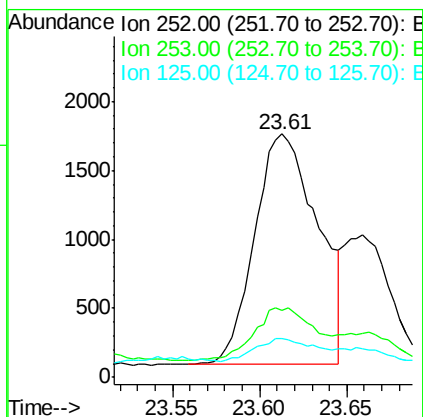
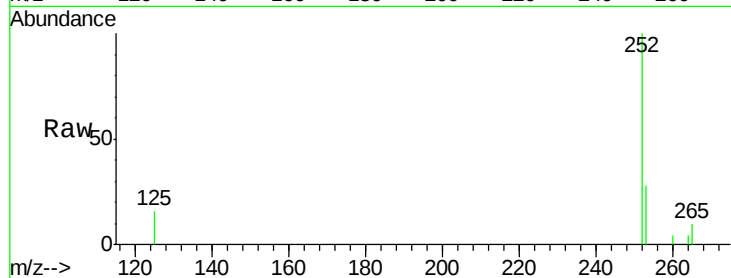




#36
Benzo(k)fluoranthene
Concen: 0.164 ng
RT: 23.61 min Scan# 2491
Delta R.T. -0.05 min
Lab File: BE095705.D
Acq: 6 Mar 2018 19:47

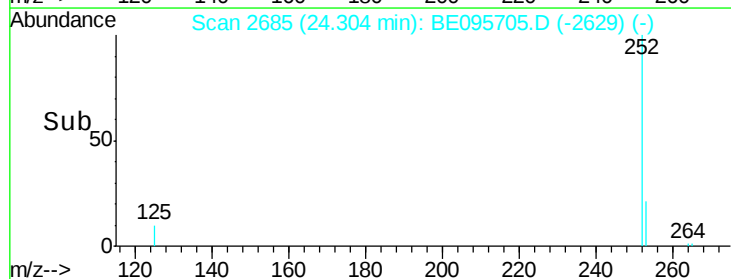
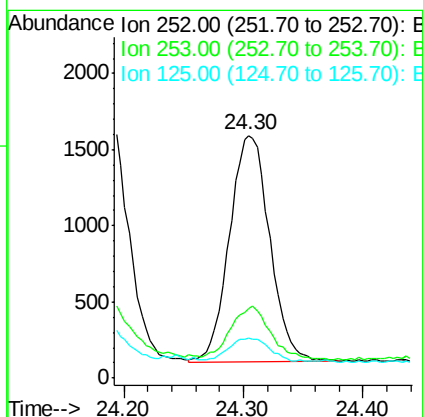
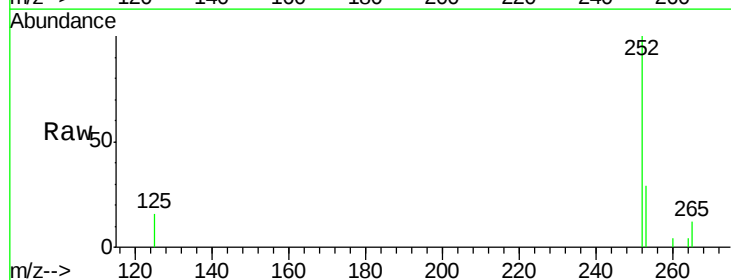
Instrument :
BNA_E
ClientSampleId :

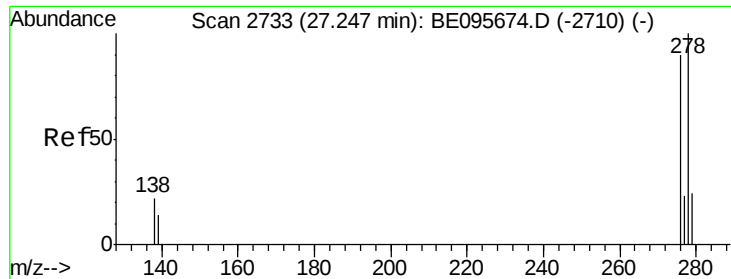
Tot Ion:252 Resp: 4217
Ion Ratio Lower Upper
252 100
253 27.7 16.0 24.0#
125 16.1 8.0 12.0#



#37
Benzo(a)pyrene
Concen: 0.149 ng
RT: 24.30 min Scan# 2685
Delta R.T. 0.00 min
Lab File: BE095705.D
Acq: 6 Mar 2018 19:47

Tgt Ion:252 Resp: 3483
Ion Ratio Lower Upper
252 100
253 28.7 16.0 24.0#
125 16.3 12.0 18.0



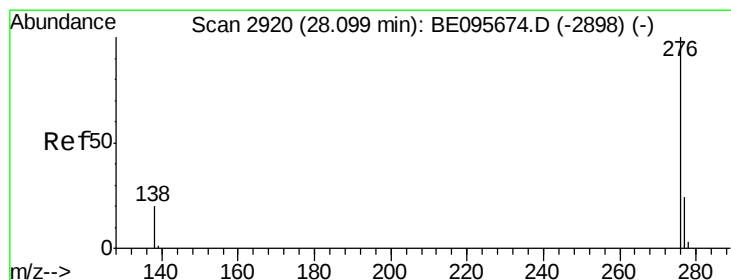
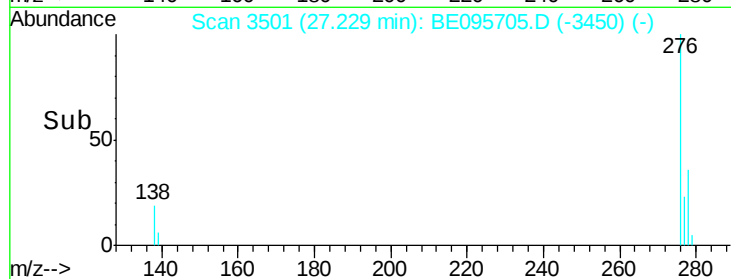
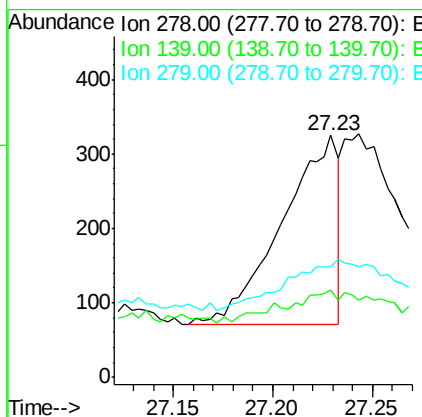
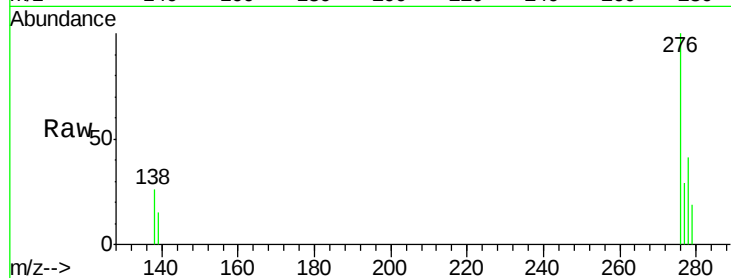


#38
Dibenzo(a,h)anthracene
Concen: 0.024 ng
RT: 27.23 min Scan# 3501
Delta R.T. -0.02 min
Lab File: BE095705.D
Acq: 6 Mar 2018 19:47

Instrument :
BNA_E
ClientSampleId :

Tot Ion:278 Resp: 498

Ion	Ratio	Lower	Upper
278	100		
139	36.3	16.0	24.0#
279	45.5	20.0	30.0#



#39
Benzo(g,h,i)perylene
Concen: 0.159 ng
RT: 28.10 min Scan# 3744
Delta R.T. -0.00 min
Lab File: BE095705.D
Acq: 6 Mar 2018 19:47

Tgt Ion:276 Resp: 3539

Ion	Ratio	Lower	Upper
276	100		
277	28.5	16.0	24.0#
138	24.1	20.0	30.0

