

Data Path : Z:\HPCHEM1\BNA E\DATA\BE040518\
 Data File : BE095951.D
 Acq On : 5 Apr 2018 10:32
 Operator : SJ/JU
 Sample : J2148-03RE
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Apr 06 04:42:36 2018
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE032318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 23 12:41:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.42	152	652	0.40	ng	0.00
7) Naphthalene-d8	11.26	136	2576	0.40	ng	0.00
13) Acenaphthene-d10	14.99	164	1439	0.40	ng	-0.01
19) Phenanthrene-d10	17.70	188	3146	0.40	ng	-0.01
27) Chrysene-d12	21.79	240	3424	0.40	ng	-0.01
34) Perylene-d12	24.42	264	3451	0.40	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.91	112	1657	0.77	ng	0.00
5) Phenol-d6	7.56	99	2441	0.83	ng	0.00
8) Nitrobenzene-d5	9.59	82	2347	0.77	ng	0.00
11) 2-Methylnaphthalene-d10	12.79	152	3020	0.70	ng	-0.01
14) 2,4,6-Tribromophenol	16.46	330	636	0.77	ng	-0.01
15) 2-Fluorobiphenyl	13.63	172	4287	0.71	ng	-0.01
25) Fluoranthene-d10	19.68	212	24610	0.53	ng	0.00
29) Terphenyl-d14	20.24	244	4016	0.55	ng	0.00

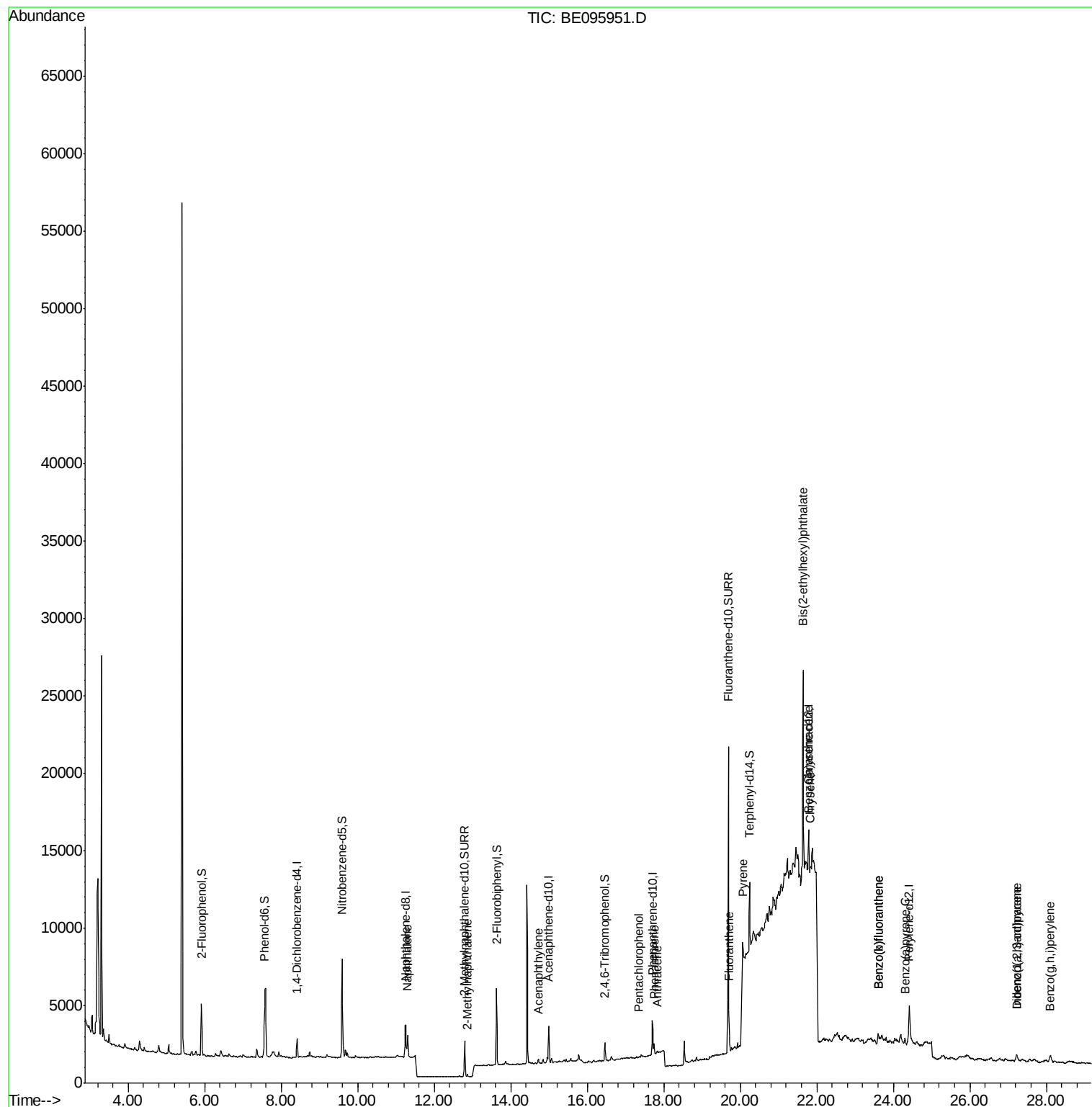
Target Compounds						Qvalue	
9) Naphthalene	11.29	128	2131	0.072	ng	#	91
12) 2-Methylnaphthalene	12.86	142	120	0.024	ng	#	78
16) Acenaphthylene	14.73	152	359	0.044	ng	#	89
22) Pentachlorophenol	17.35	266	10	0.145	ng		91
23) Phenanthrene	17.74	178	705	0.075	ng	#	93
24) Anthracene	17.84	178	222	0.024	ng	#	55
26) Fluoranthene	19.71	202	1273	0.097	ng	#	88
28) Pyrene	20.06	202	1370	0.098	ng	#	69
30) Benzo(a)anthracene	21.78	228	592	0.050	ng	#	10
31) Chrysene	21.82	228	775	0.072	ng	#	14
32) Bis(2-ethylhexyl)phthalate	21.64	149	19329	0.532	ng	#	96
33) Indeno(1,2,3-cd)pyrene	27.22	276	920	0.079	ng	#	78
35) Benzo(b)fluoranthene	23.61	252	1064	0.093	ng	#	1
36) Benzo(k)fluoranthene	23.61	252	1064	0.093	ng	#	1
37) Benzo(a)pyrene	24.30	252	718	0.067	ng	#	1
38) Dibenzo(a,h)anthracene	27.23	278	290	0.029	ng	#	1
39) Benzo(a,h,i)perylene	28.10	276	1157	0.113	ng	#	19

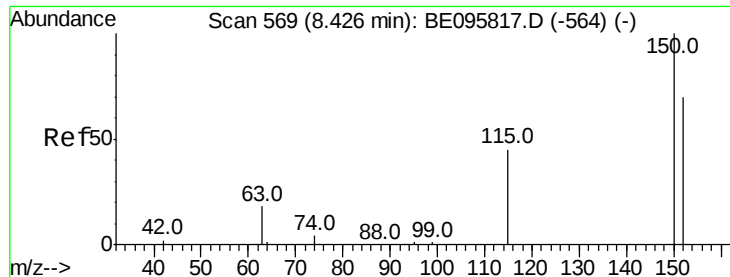
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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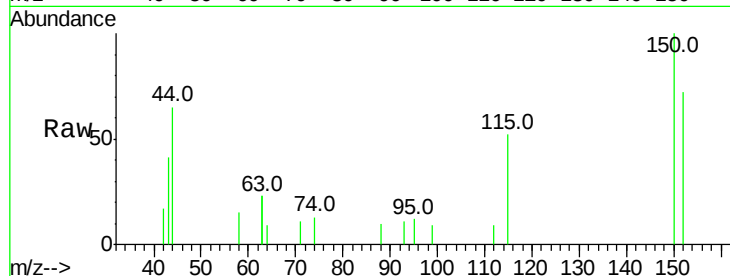


#1

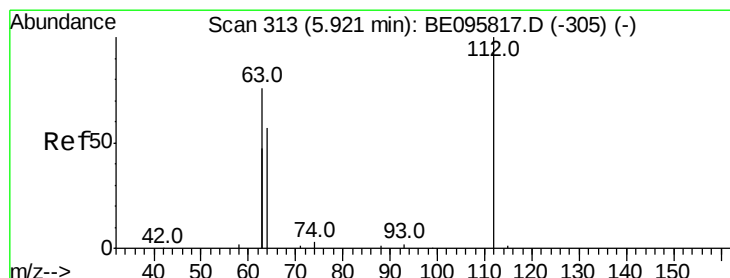
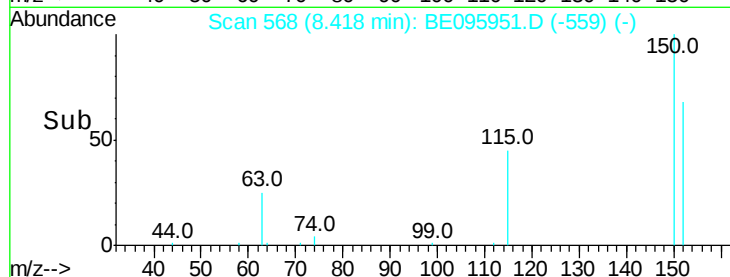
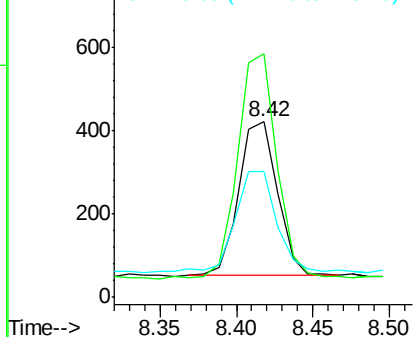
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.42 min Scan# 568
Delta R.T. -0.01 min
Lab File: BE095951.D
Acq: 5 Apr 2018 10:32

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 652
Ion Ratio Lower Upper
152 100
150 138.6 117.2 175.8
115 71.6 57.0 85.6



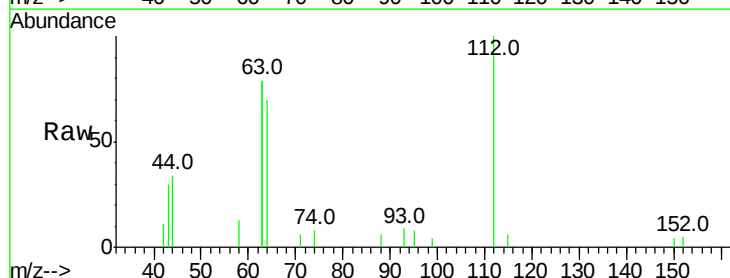
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



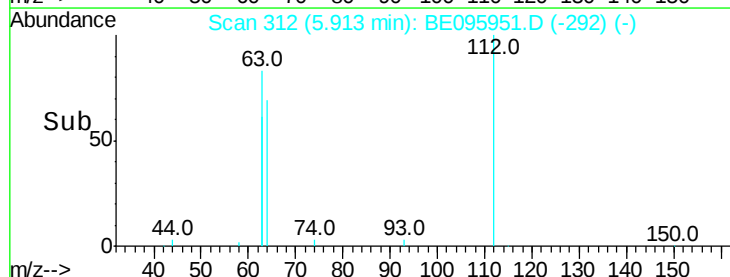
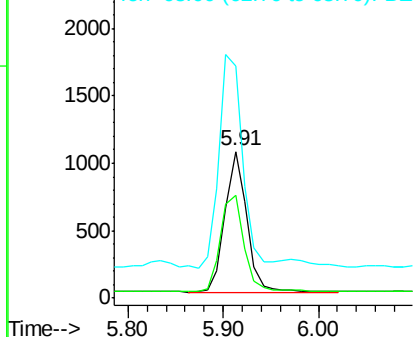
#4

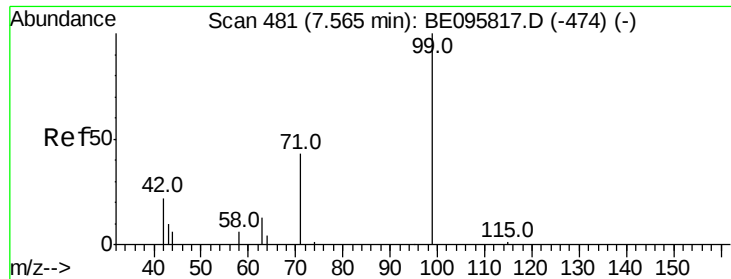
2-Fluorophenol
Concen: 0.771 ng
RT: 5.91 min Scan# 312
Delta R.T. -0.01 min
Lab File: BE095951.D
Acq: 5 Apr 2018 10:32

Tgt Ion:112 Resp: 1657
Ion Ratio Lower Upper
112 100
64 71.8 60.1 90.1
63 162.2 116.8 175.2



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: 0.826 ng

RT: 7.56 min Scan# 480

Delta R.T. -0.01 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

Instrument :

BNA_E

ClientSampleId :

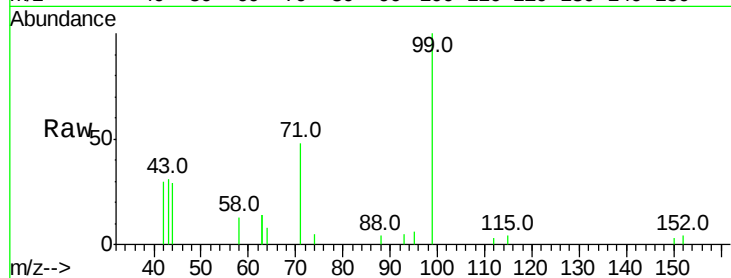
Tot Ion: 99 Resp: 2441

Ion Ratio Lower Upper

99 100

42 32.4 20.2 30.2#

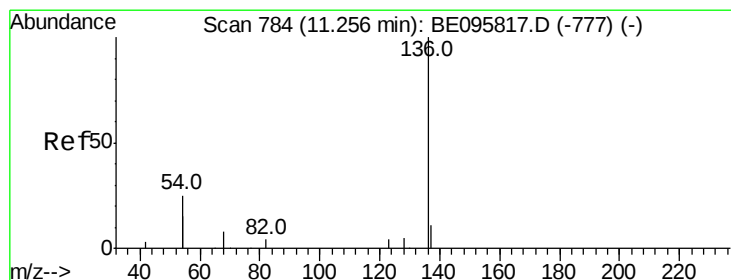
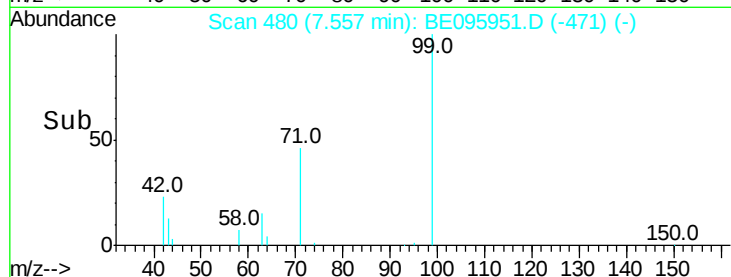
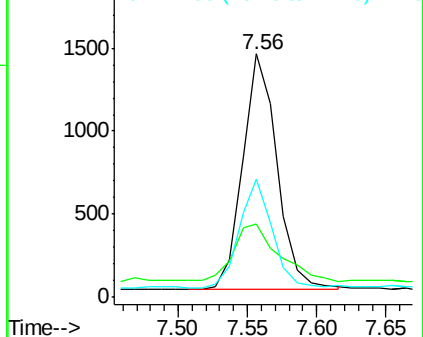
71 43.4 28.4 42.6#



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.26 min Scan# 784

Delta R.T. -0.00 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

Tgt Ion: 136 Resp: 2576

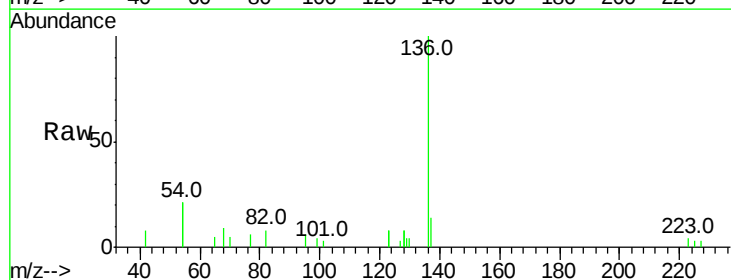
Ion Ratio Lower Upper

136 100

137 14.3 9.5 14.3#

54 41.5 29.1 43.7

68 9.5 6.2 9.2#

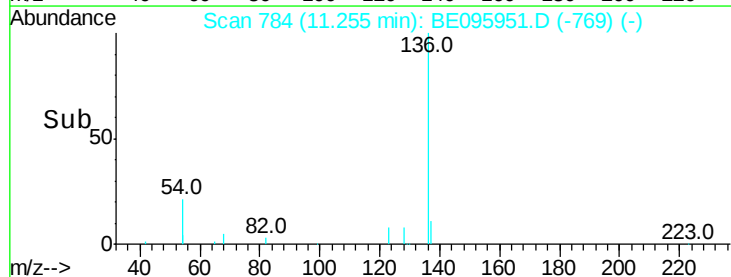
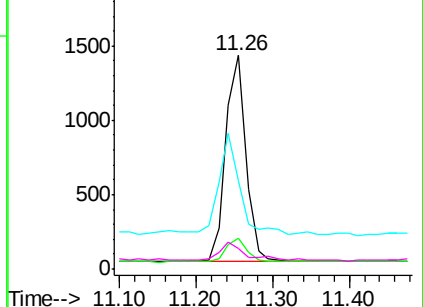


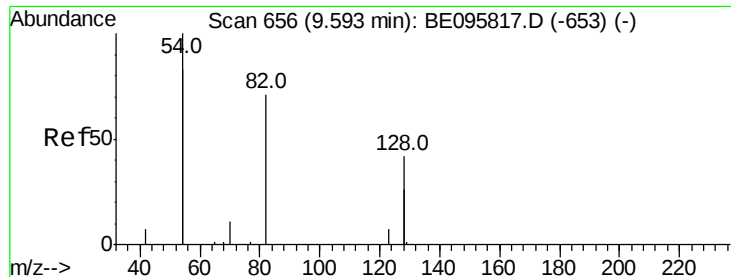
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.771 ng

RT: 9.59 min Scan# 656

Delta R.T. -0.00 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

Instrument :

BNA_E

ClientSampleId :

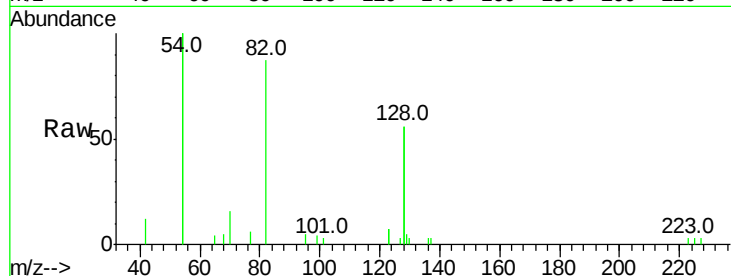
Tot Ion: 82 Resp: 2347

Ion Ratio Lower Upper

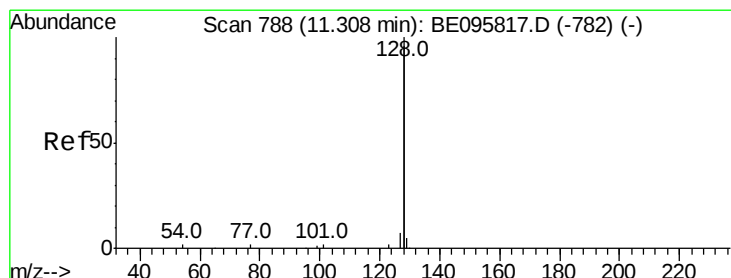
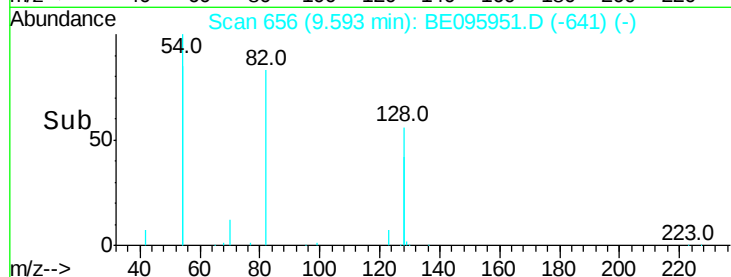
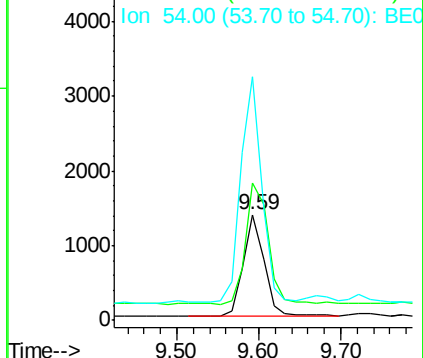
82 100

128 130.1 150.0 225.0#

54 231.1 154.2 231.4



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): BE0
Ion 54.00 (53.70 to 54.70): BE0



#9

Naphthalene

Concen: 0.072 ng

RT: 11.29 min Scan# 787

Delta R.T. -0.01 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

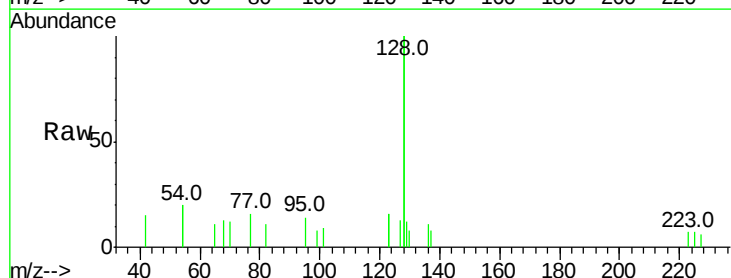
Tgt Ion: 128 Resp: 2131

Ion Ratio Lower Upper

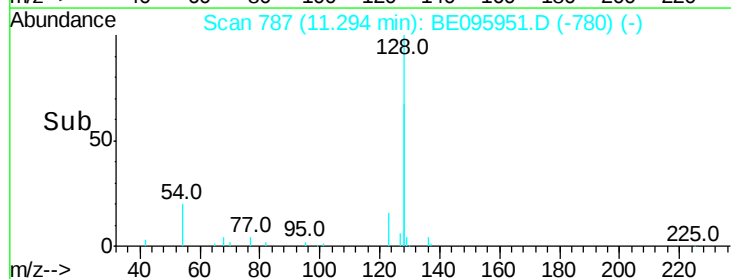
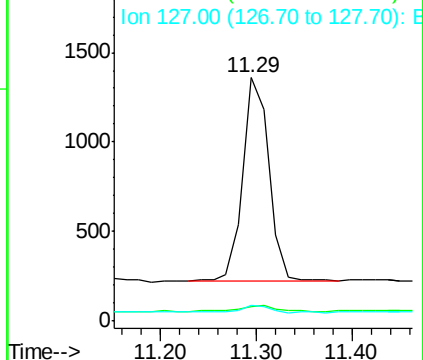
128 100

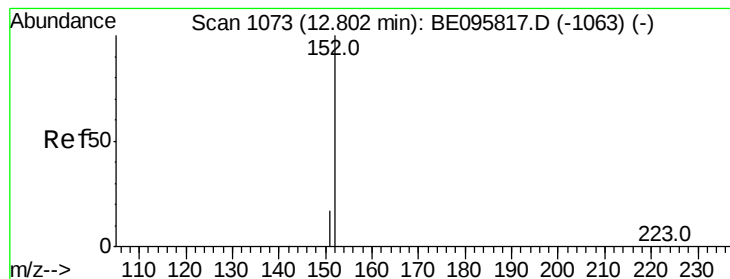
129 6.1 2.6 3.8#

127 6.5 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: 0.702 ng

RT: 12.79 min Scan# 1071

Delta R.T. -0.01 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

Instrument :

BNA_E

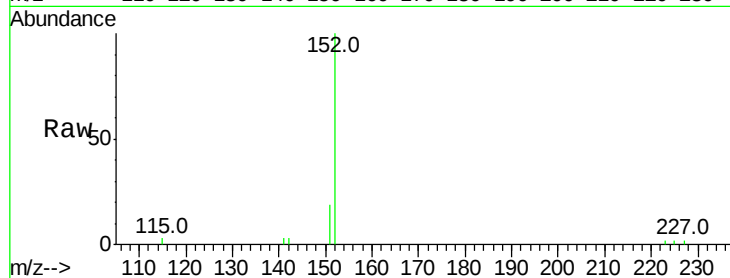
ClientSampleId :

Tot Ion:152 Resp: 3020

Ion Ratio Lower Upper

152 100

151 19.8 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.79

2000

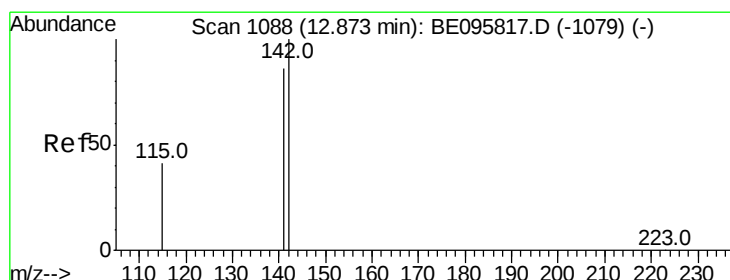
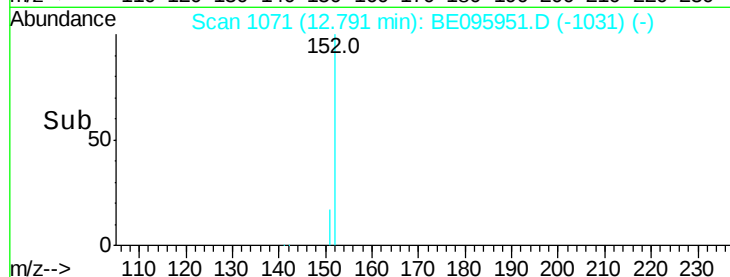
1500

1000

500

0

Time--> 12.70 12.80 12.90



#12

2-Methylnaphthalene

Concen: 0.024 ng

RT: 12.86 min Scan# 1086

Delta R.T. -0.01 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

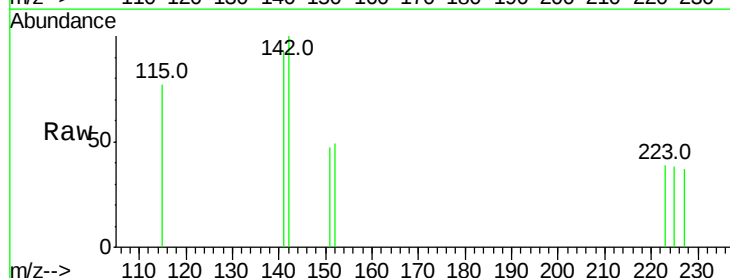
Tgt Ion:142 Resp: 120

Ion Ratio Lower Upper

142 100

141 92.9 70.4 105.6

115 77.0 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

12.86

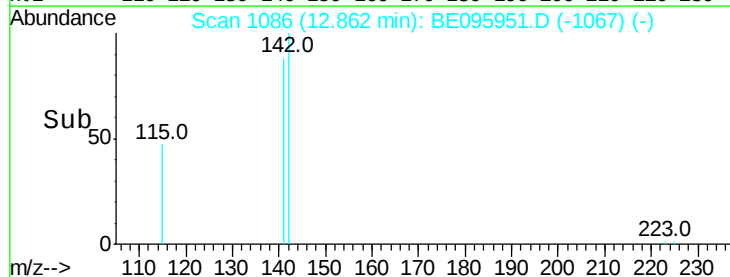
150

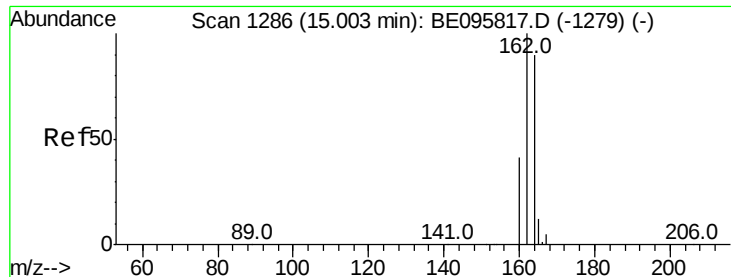
100

50

0

Time--> 12.80 12.85 12.90





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.99 min Scan# 1285

Delta R.T. -0.01 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

Instrument :

BNA_E

ClientSampled :

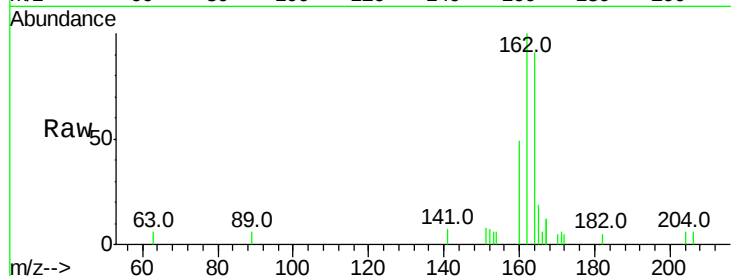
Tot Ion:164 Resp: 1439

Ion Ratio Lower Upper

164 100

162 110.1 83.1 124.7

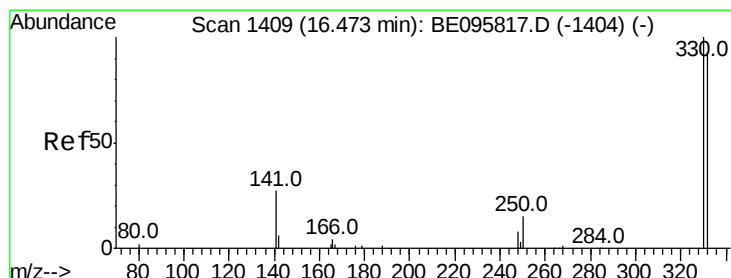
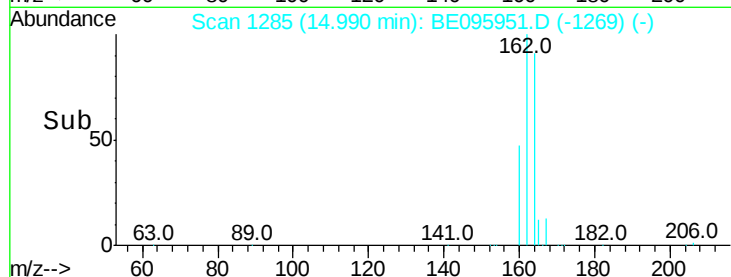
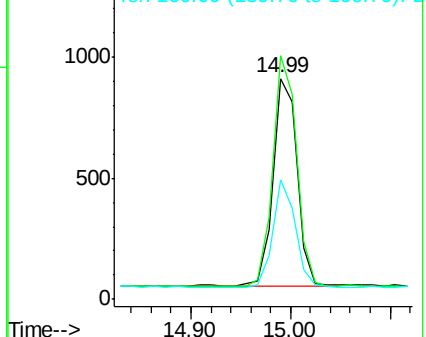
160 53.8 37.1 55.7



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: 0.766 ng

RT: 16.46 min Scan# 1408

Delta R.T. -0.01 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

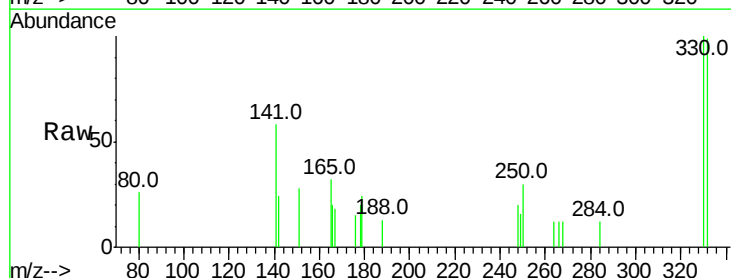
Tgt Ion:330 Resp: 636

Ion Ratio Lower Upper

330 100

332 98.4 152.7 229.1#

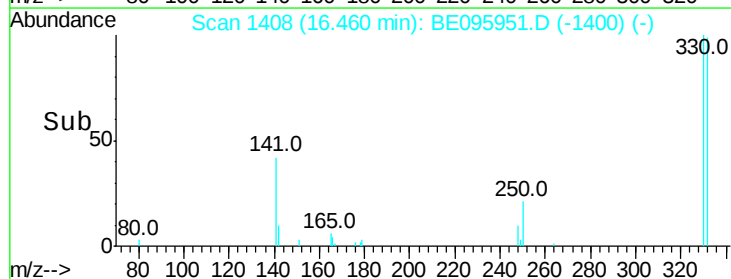
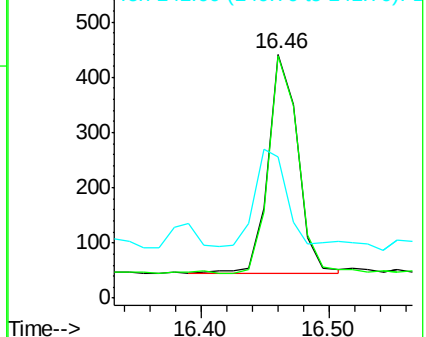
141 48.7 33.7 50.5

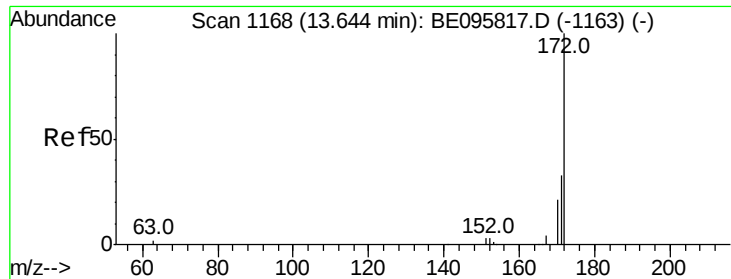


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

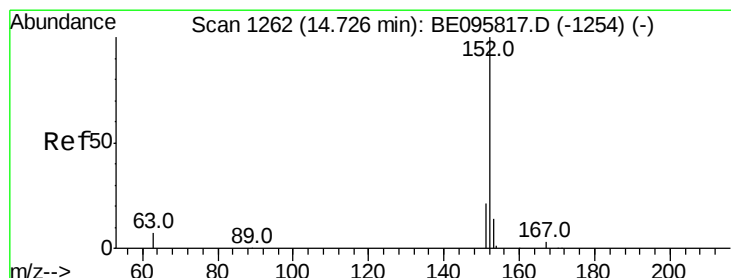
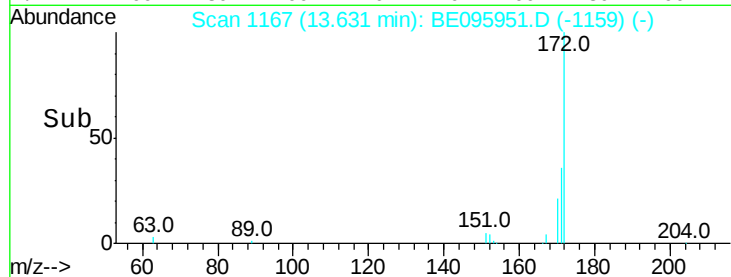
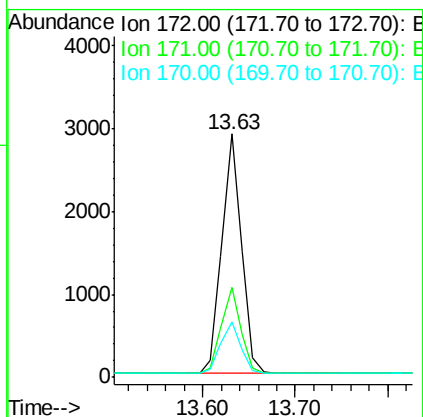
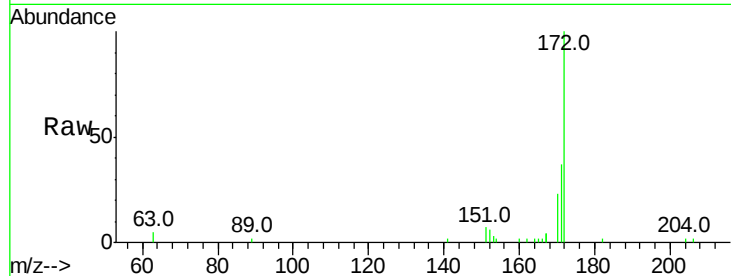




#15
2-Fluorobiphenyl
Concen: 0.707 ng
RT: 13.63 min Scan# 1167
Delta R.T. -0.01 min
Lab File: BE095951.D
Acq: 5 Apr 2018 10:32

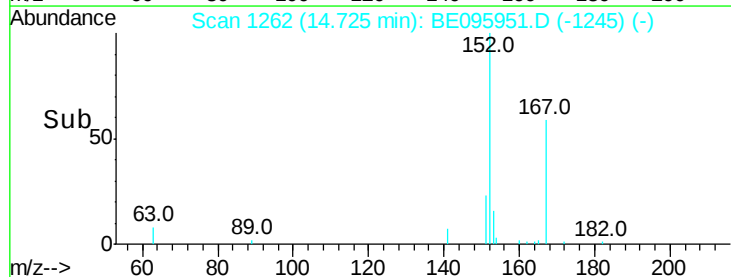
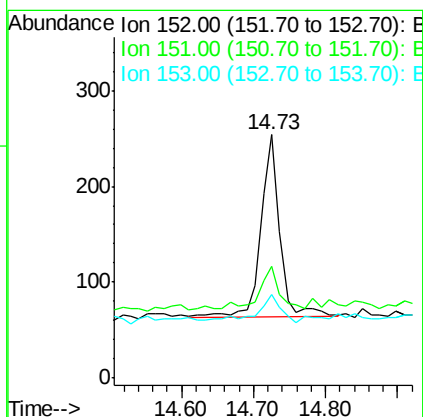
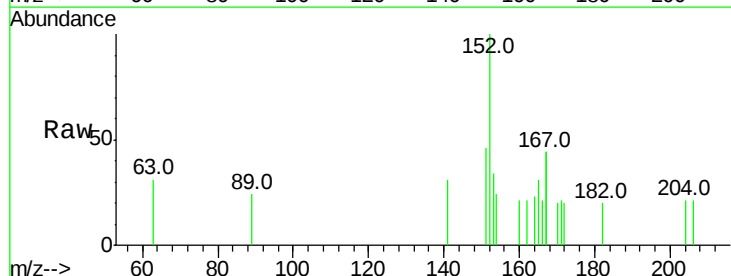
Instrument :
BNA_E
ClientSampleId :

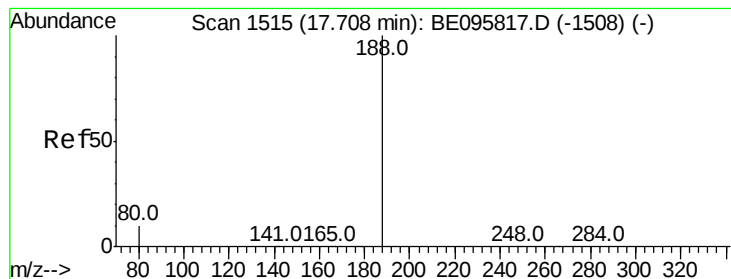
Tot Ion:172 Resp: 4287
Ion Ratio Lower Upper
172 100
171 36.8 29.9 44.9
170 22.6 21.8 32.8



#16
Acenaphthylene
Concen: 0.044 ng
RT: 14.73 min Scan# 1262
Delta R.T. -0.00 min
Lab File: BE095951.D
Acq: 5 Apr 2018 10:32

Tgt Ion:152 Resp: 359
Ion Ratio Lower Upper
152 100
151 23.4 15.7 23.5
153 18.7 10.5 15.7#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.70 min Scan# 1514

Delta R.T. -0.01 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

Instrument :

BNA_E

ClientSampleId :

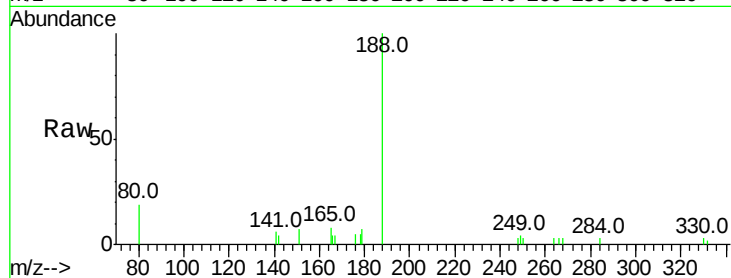
Tot Ion:188 Resp: 3146

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

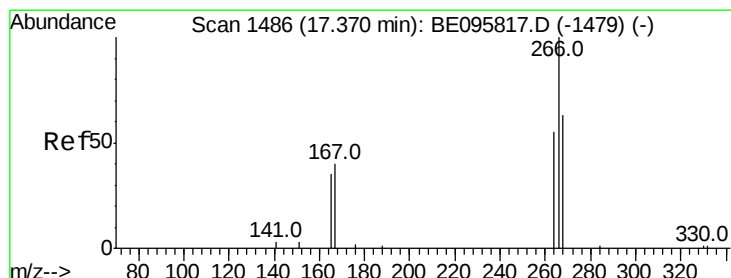
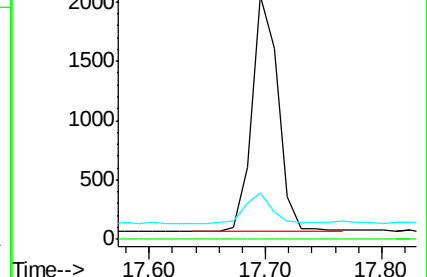
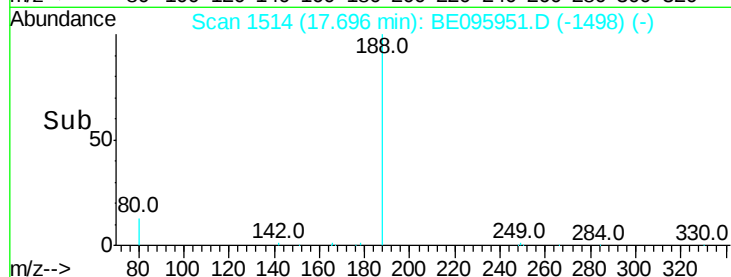
80 19.3 3.6 5.4#



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: 0.145 ng

RT: 17.35 min Scan# 1484

Delta R.T. -0.02 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

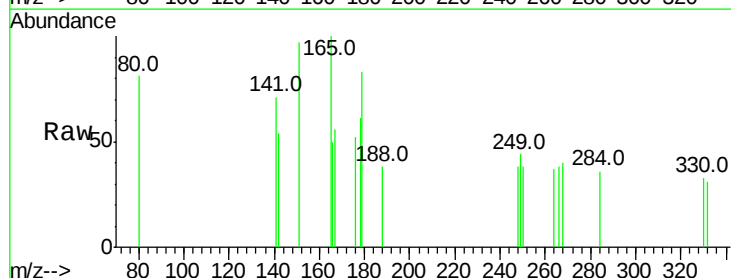
Tgt Ion:266 Resp: 10

Ion Ratio Lower Upper

266 100

264 95.0 72.5 108.7

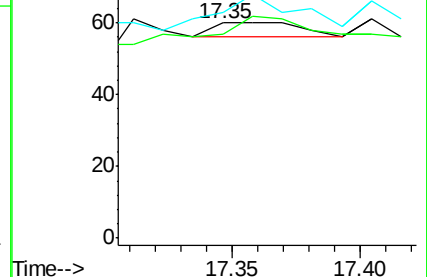
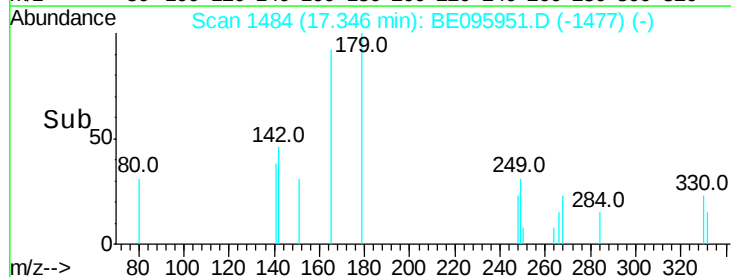
268 105.0 73.8 110.6

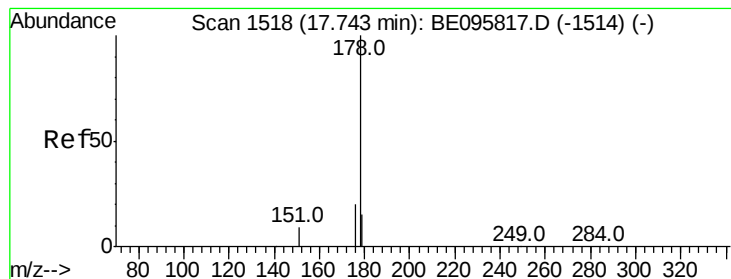


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.075 ng

RT: 17.74 min Scan# 1518

Delta R.T. -0.00 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

Instrument :

BNA_E

ClientSampleId :

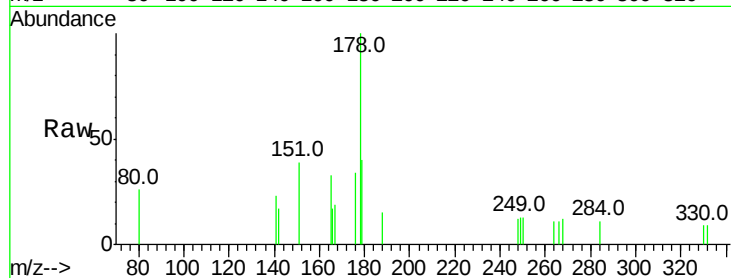
Tot Ion:178 Resp: 705

Ion Ratio Lower Upper

178 100

176 23.7 15.1 22.7#

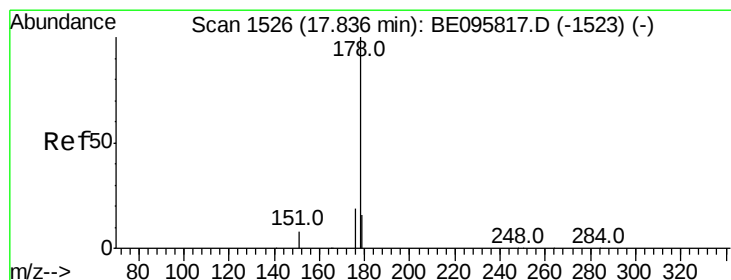
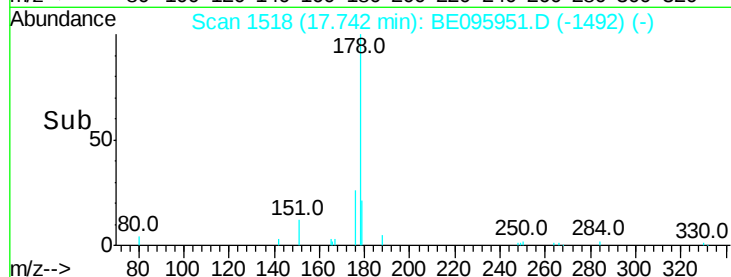
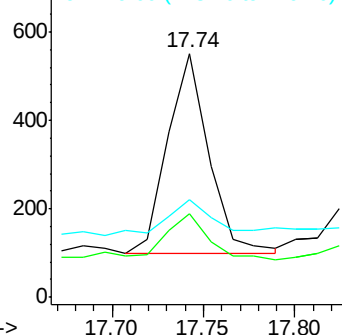
179 15.6 11.8 17.6



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: 0.024 ng

RT: 17.84 min Scan# 1526

Delta R.T. -0.00 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

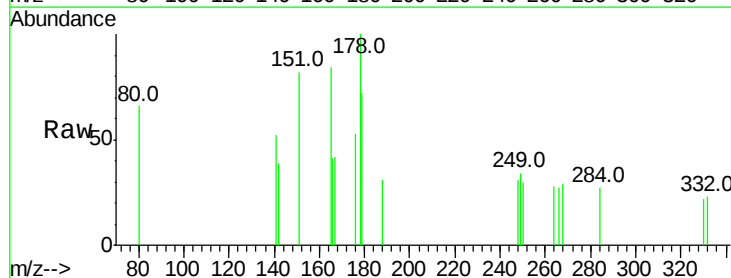
Tgt Ion:178 Resp: 222

Ion Ratio Lower Upper

178 100

176 37.8 12.8 19.2#

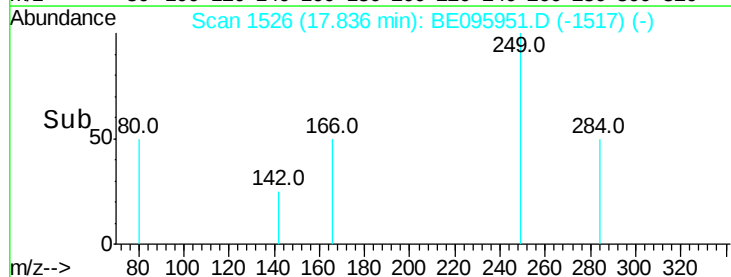
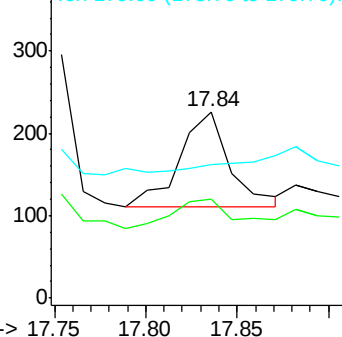
179 0.0 13.0 19.6#

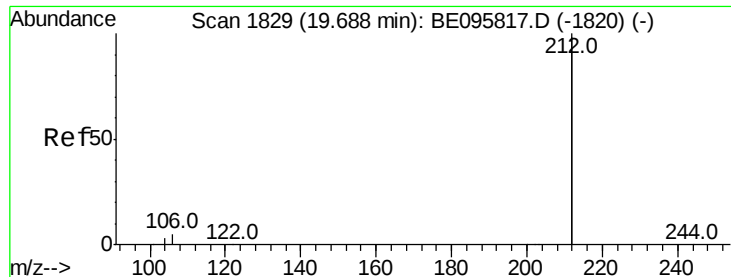


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.527 ng

RT: 19.68 min Scan# 1828

Delta R.T. -0.01 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

Instrument :

BNA_E

ClientSampleId :

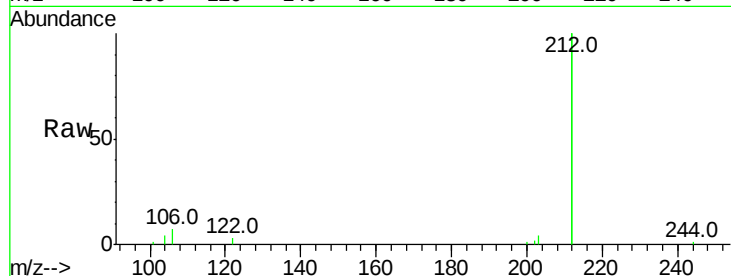
Tot Ion:212 Resp: 24610

Ion Ratio Lower Upper

212 100

106 3.5 2.8 4.2

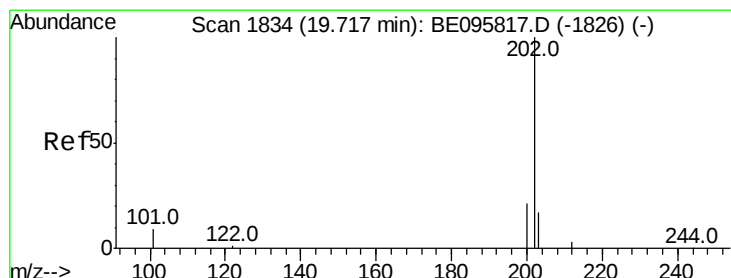
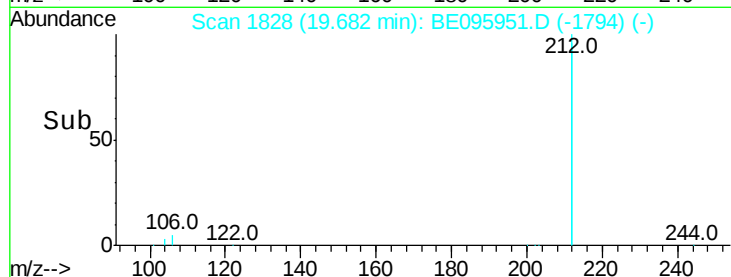
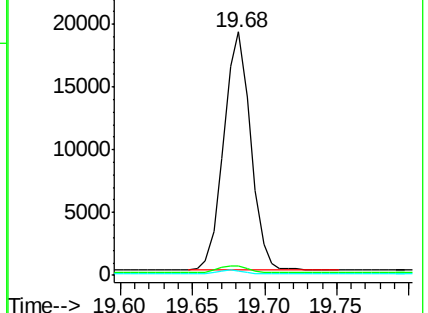
104 1.8 1.6 2.4



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: 0.097 ng

RT: 19.71 min Scan# 1833

Delta R.T. -0.01 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

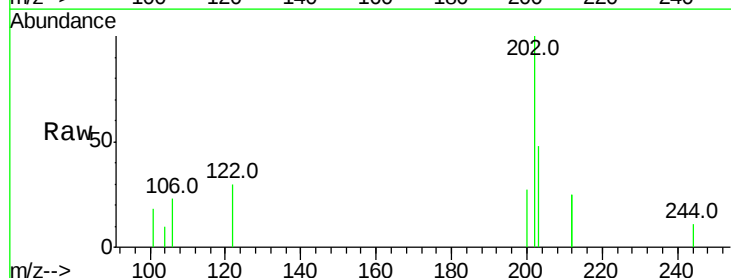
Tgt Ion:202 Resp: 1273

Ion Ratio Lower Upper

202 100

101 10.9 9.8 14.8

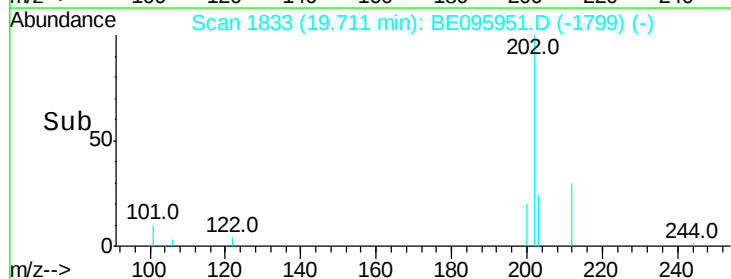
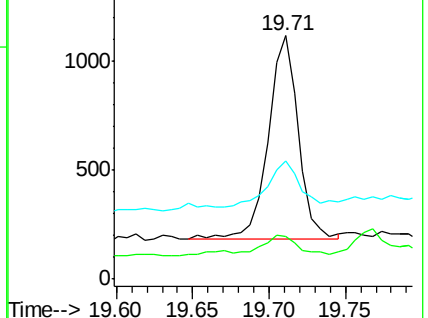
203 25.3 13.7 20.5#

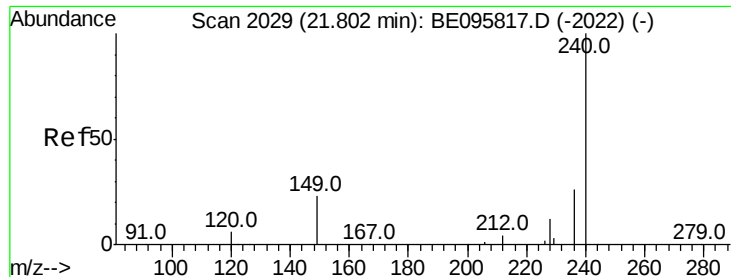


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.79 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

Instrument :

BNA_E

ClientSampleId :

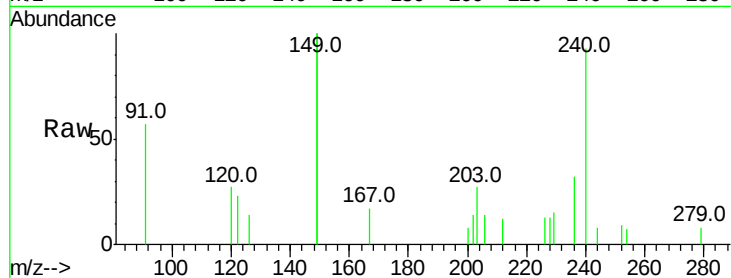
Tot Ion:240 Resp: 3424

Ion Ratio Lower Upper

240 100

120 28.8 5.5 8.3#

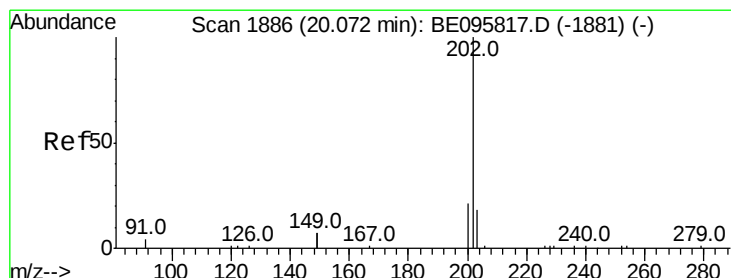
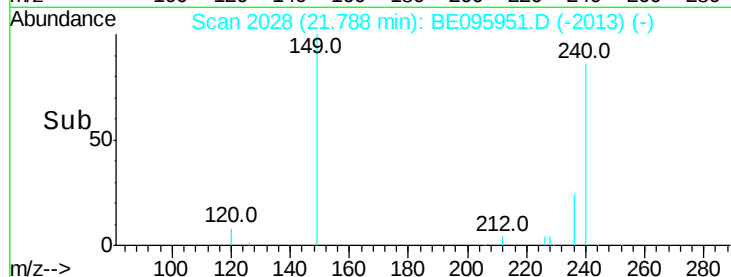
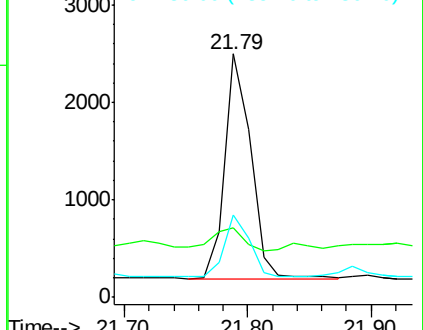
236 34.0 20.7 31.1#



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: 0.098 ng

RT: 20.06 min Scan# 1885

Delta R.T. -0.01 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

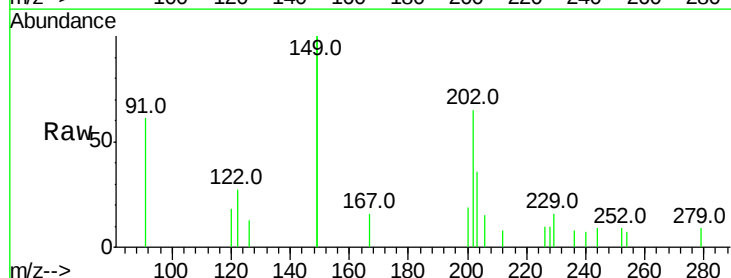
Tgt Ion:202 Resp: 1370

Ion Ratio Lower Upper

202 100

200 28.1 16.6 25.0#

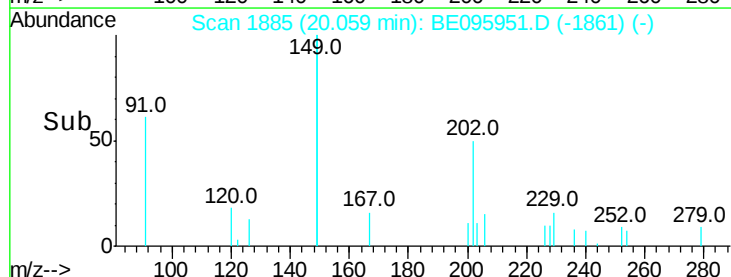
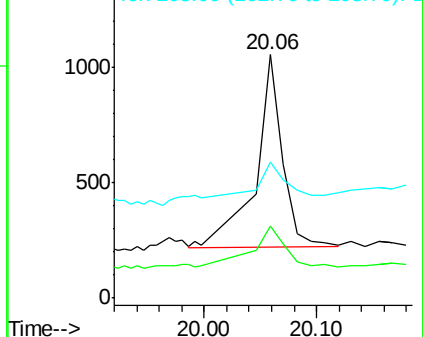
203 39.2 13.8 20.8#

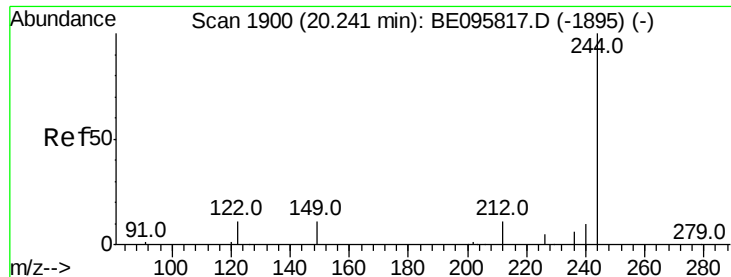


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.552 ng

RT: 20.24 min Scan# 1900

Delta R.T. -0.00 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

Instrument :

BNA_E

ClientSampled :

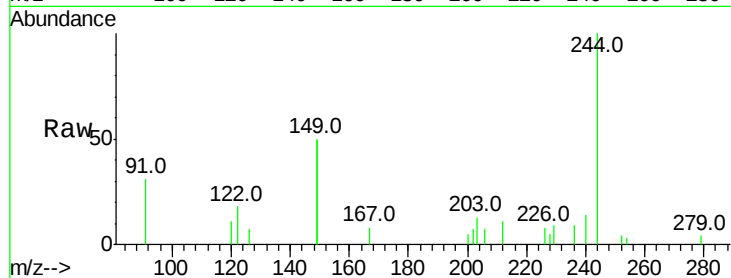
Tot Ion:244 Resp: 4016

Ion Ratio Lower Upper

244 100

212 11.0 25.4 38.0#

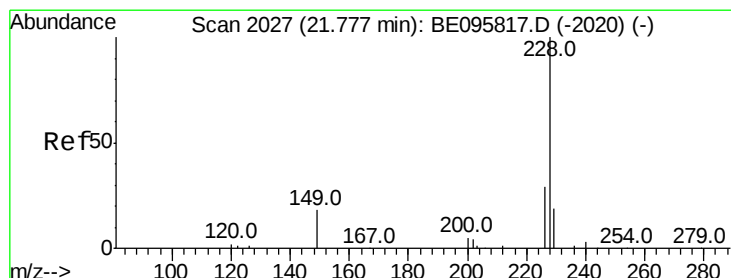
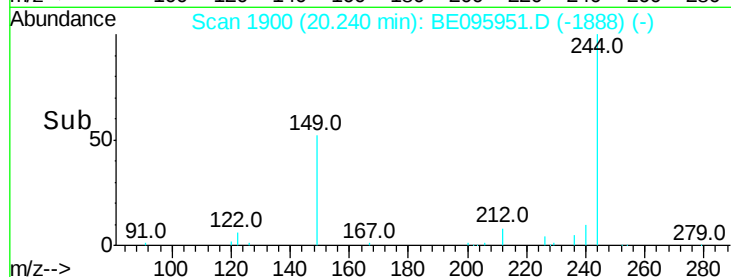
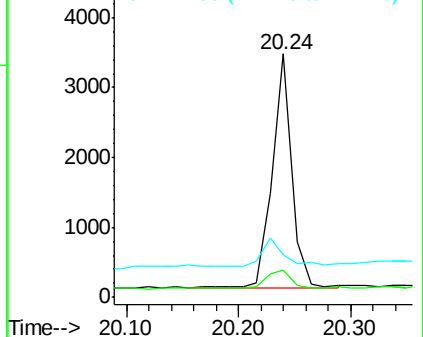
122 17.6 8.1 12.1#



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: 0.050 ng

RT: 21.78 min Scan# 2027

Delta R.T. -0.00 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

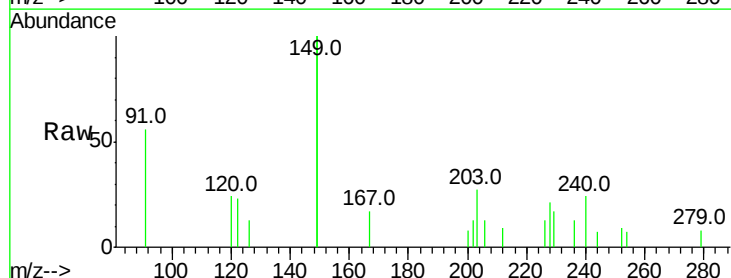
Tgt Ion:228 Resp: 592

Ion Ratio Lower Upper

228 100

226 61.3 24.0 36.0#

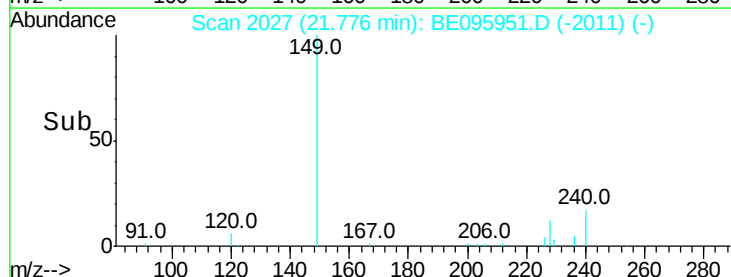
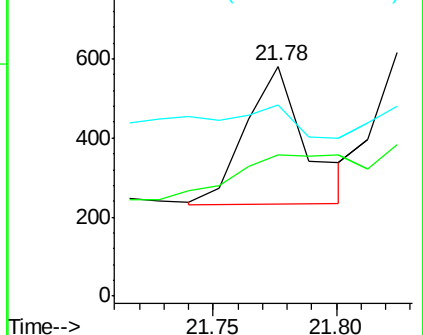
229 83.2 16.0 24.0#

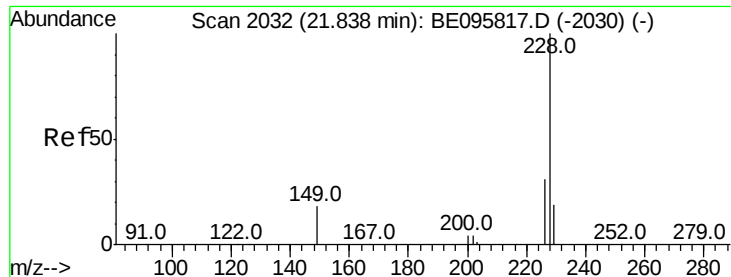


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.072 ng

RT: 21.82 min Scan# 2031

Delta R.T. -0.01 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

Instrument :

BNA_E

ClientSampleId :

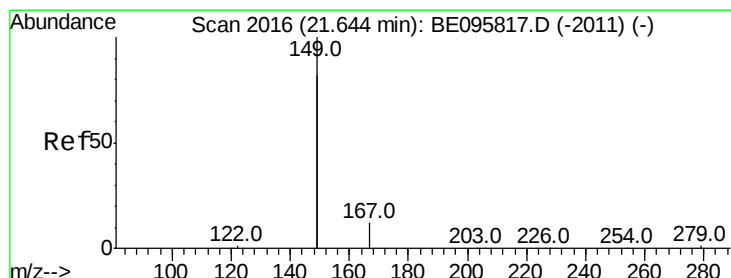
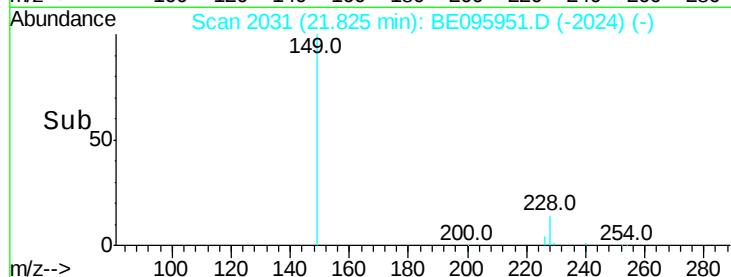
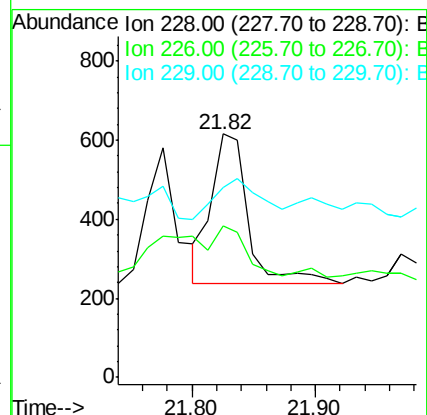
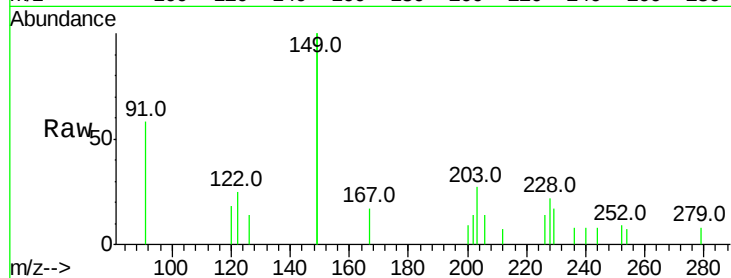
Tot Ion:228 Resp: 775

Ion Ratio Lower Upper

228 100

226 62.0 24.0 36.0#

229 77.8 16.0 24.0#



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.532 ng

RT: 21.64 min Scan# 2016

Delta R.T. -0.00 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

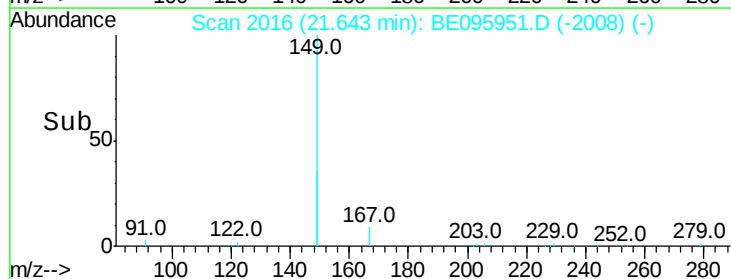
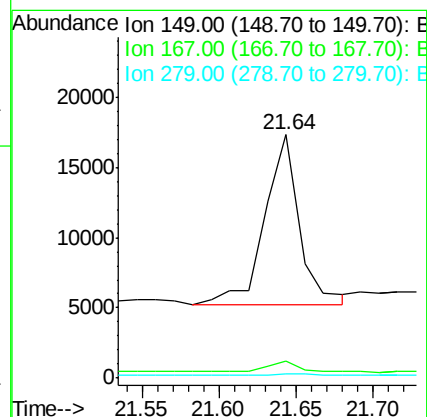
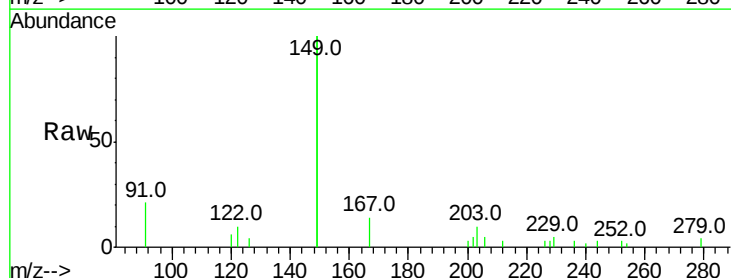
Tgt Ion:149 Resp: 19329

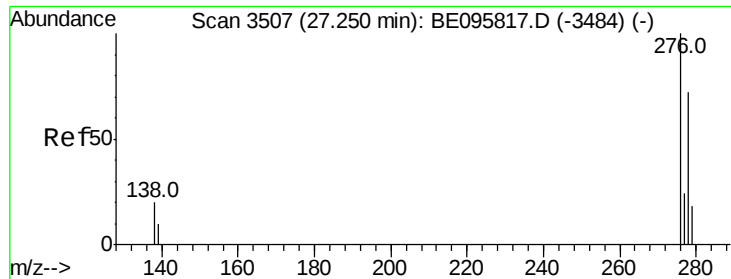
Ion Ratio Lower Upper

149 100

167 5.3 5.4 8.0#

279 1.1 0.7 1.1#





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.079 ng

RT: 27.22 min Scan# 3499

Delta R.T. -0.03 min

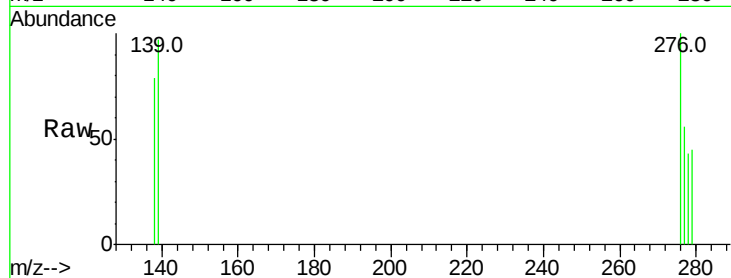
Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

Instrument :

BNA_E

ClientSampleId :



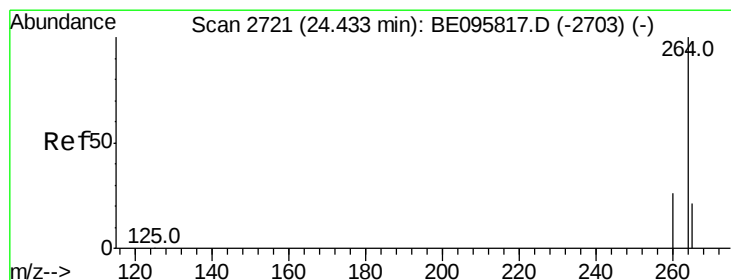
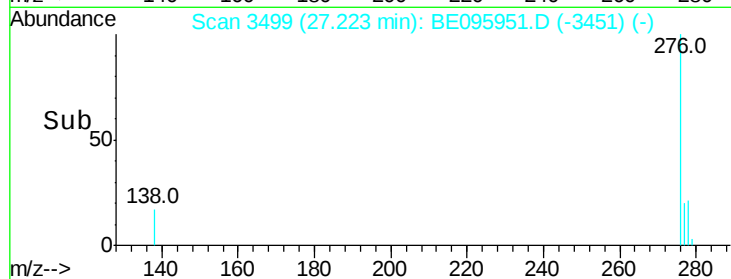
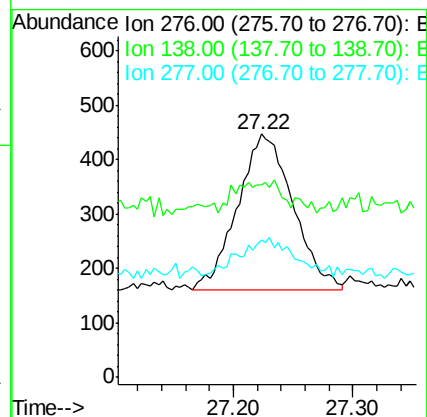
Tot Ion:276 Resp: 920

Ion Ratio Lower Upper

276 100

138 7.6 22.5 33.7#

277 26.6 19.9 29.9



#34

Perylene-d12

Concen: 0.400 ng

RT: 24.42 min Scan# 2717

Delta R.T. -0.01 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

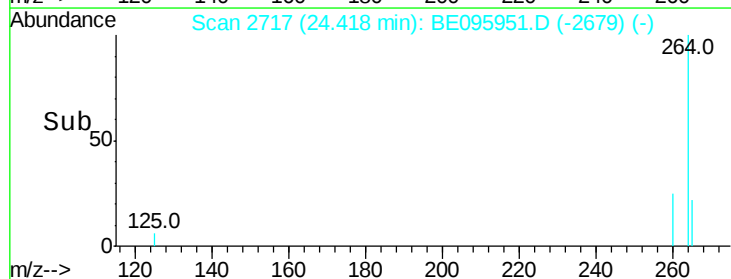
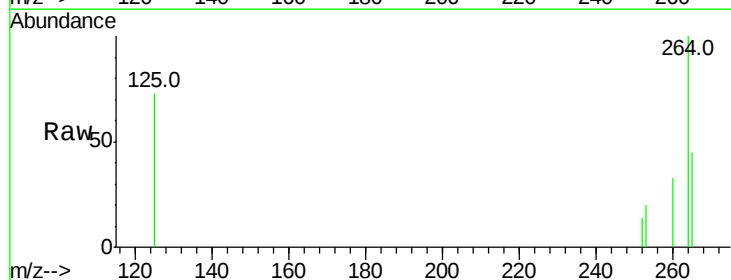
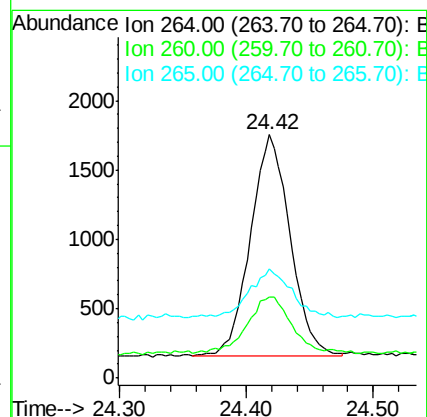
Tgt Ion:264 Resp: 3451

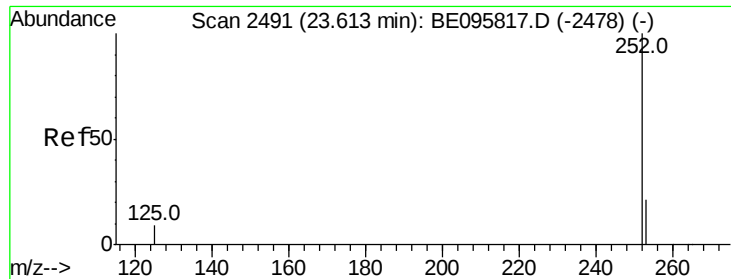
Ion Ratio Lower Upper

264 100

260 33.1 20.5 30.7#

265 44.7 22.8 34.2#

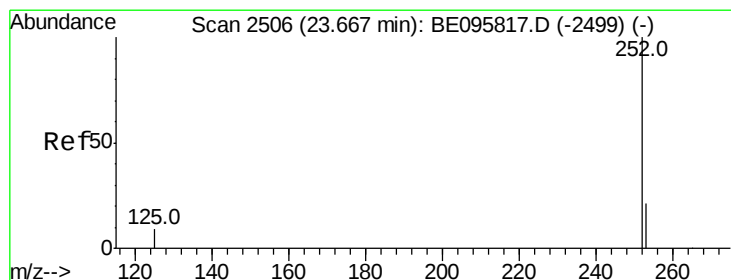
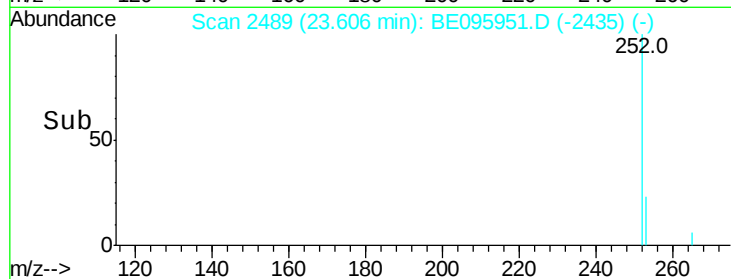
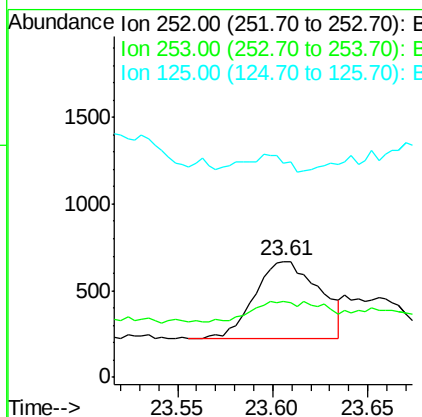
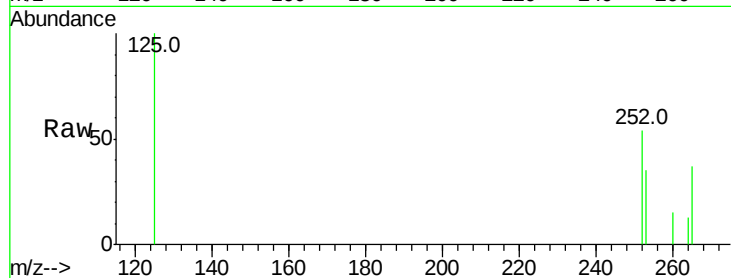




#35
Benzo(b)fluoranthene
Concen: 0.093 ng
RT: 23.61 min Scan# 2489
Delta R.T. -0.01 min
Lab File: BE095951.D
Acq: 5 Apr 2018 10:32

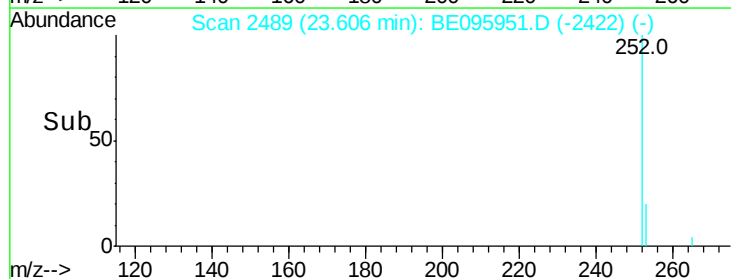
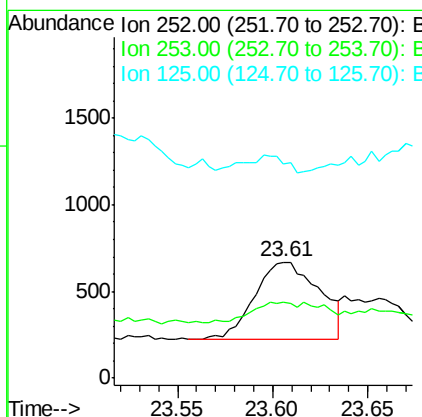
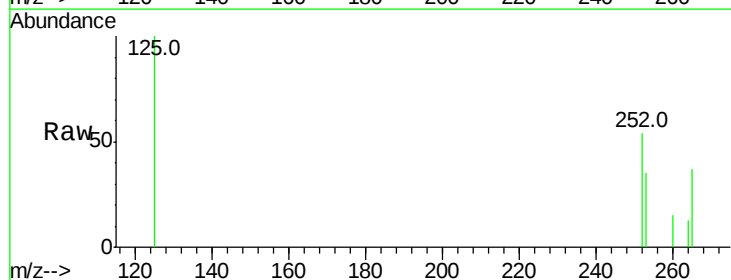
Instrument :
BNA_E
ClientSampleId :

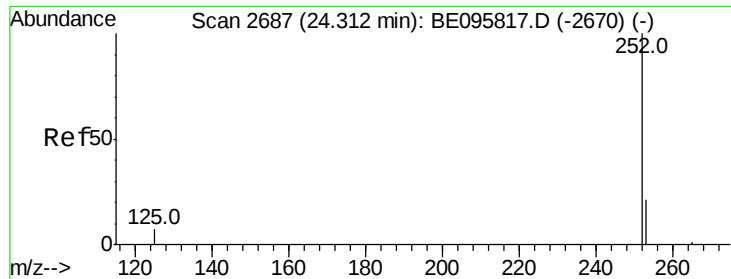
Tot Ion:252 Resp: 1064
Ion Ratio Lower Upper
252 100
253 65.8 20.0 30.0#
125 185.8 16.0 24.0#



#36
Benzo(k)fluoranthene
Concen: 0.093 ng
RT: 23.61 min Scan# 2489
Delta R.T. -0.06 min
Lab File: BE095951.D
Acq: 5 Apr 2018 10:32

Tgt Ion:252 Resp: 1064
Ion Ratio Lower Upper
252 100
253 65.8 16.0 24.0#
125 185.8 8.0 12.0#





#37

Benzo(a)pyrene

Concen: 0.067 ng

RT: 24.30 min Scan# 2684

Delta R.T. -0.01 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

Instrument :

BNA_E

ClientSampleId :

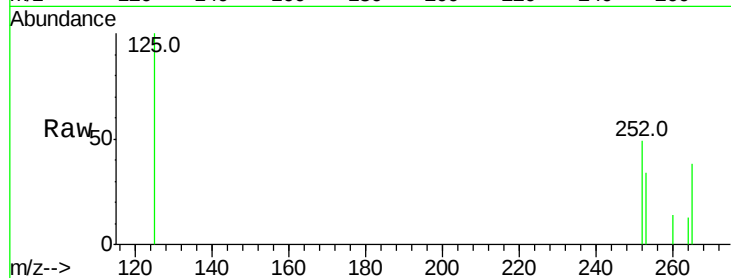
Tot Ion:252 Resp: 718

Ion Ratio Lower Upper

252 100

253 69.2 16.0 24.0#

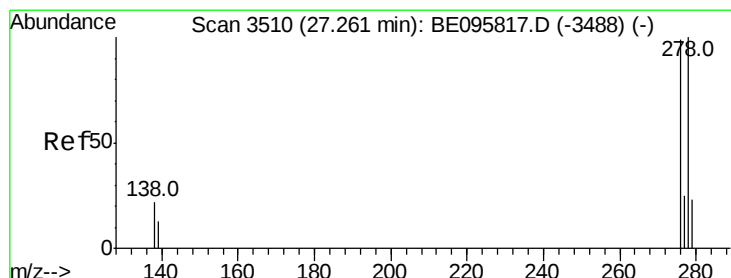
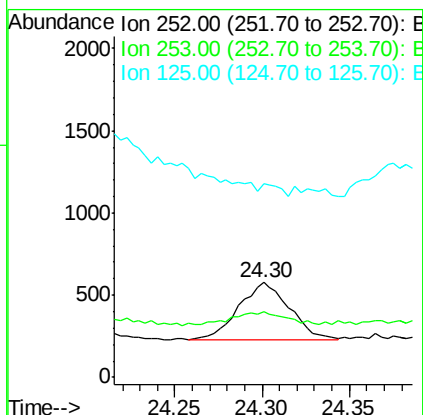
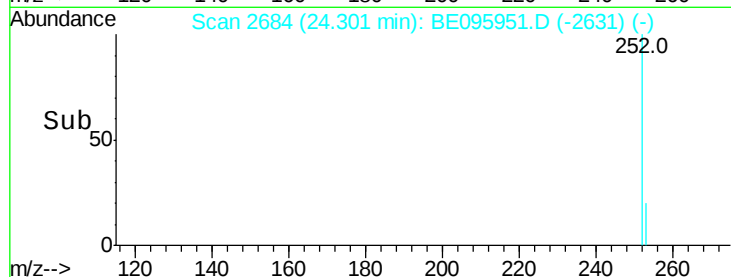
125 204.5 12.0 18.0#



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



#38

Dibenzo(a,h)anthracene

Concen: 0.029 ng

RT: 27.23 min Scan# 3500

Delta R.T. -0.03 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

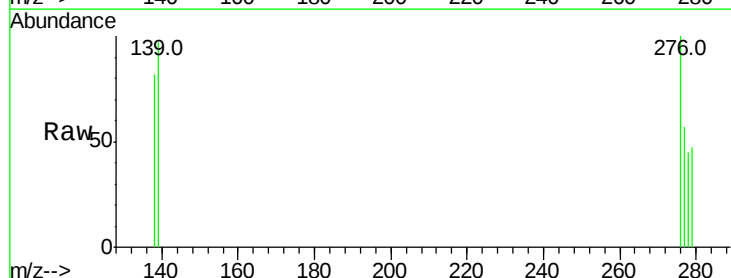
Tgt Ion:278 Resp: 290

Ion Ratio Lower Upper

278 100

139 215.7 16.0 24.0#

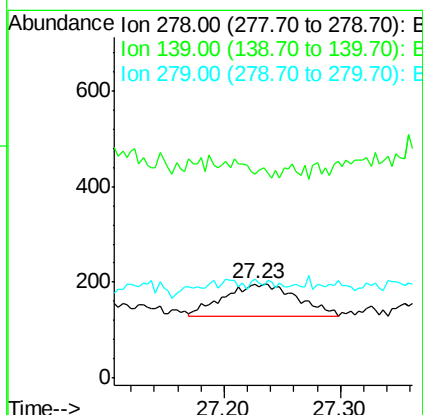
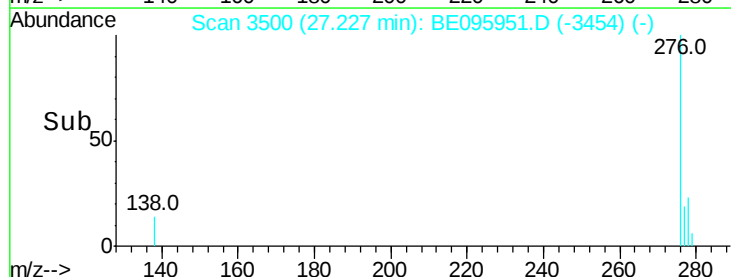
279 104.6 20.0 30.0#

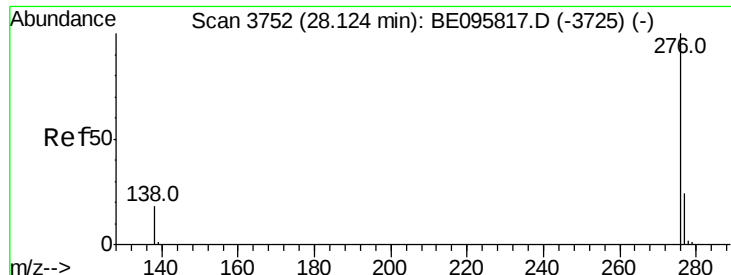


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.113 ng

RT: 28.10 min Scan# 3746

Delta R.T. -0.02 min

Lab File: BE095951.D

Acq: 5 Apr 2018 10:32

Instrument :

BNA_E

ClientSampleId :

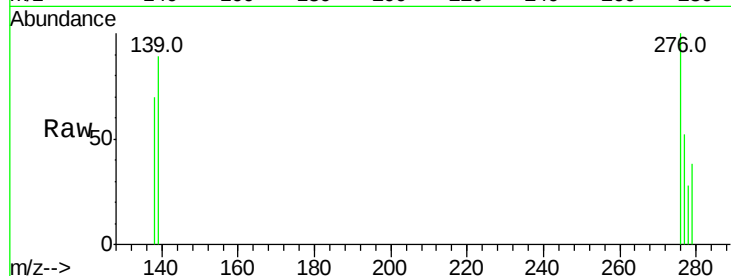
Tot Ion:276 Resp: 1157

Ion Ratio Lower Upper

276 100

277 52.1 16.0 24.0#

138 70.5 20.0 30.0#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

