

Data Path : Z:\HPCHEM1\BNA E\DATA\BE032318\
 Data File : BE095823.D
 Acq On : 23 Mar 2018 14:05
 Operator : SJ/JU
 Sample : J1888-21DL 10X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WPDL

Quant Time: Mar 23 23:48:03 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	1026	0.40	ng	0.00
7) Naphthalene-d8	11.26	136	3955	0.40	ng	0.00
13) Acenaphthene-d10	15.00	164	2349	0.40	ng	0.00
19) Phenanthrene-d10	17.71	188	6017	0.40	ng	0.00
27) Chrysene-d12	21.80	240	7519	0.40	ng	0.00
34) Perylene-d12	24.43	264	7282	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.91	112	144	0.04	ng	0.00
5) Phenol-d6	7.57	99	183	0.04	ng	0.00
8) Nitrobenzene-d5	9.59	82	221	0.05	ng	0.00
11) 2-Methylnaphthalene-d10	12.80	152	242	0.04	ng	0.00
14) 2,4,6-Tribromophenol	16.47	330	52	0.04	ng	0.00
15) 2-Fluorobiphenyl	13.64	172	462	0.05	ng	0.00
25) Fluoranthene-d10	19.69	212	3576	0.04	ng	0.00
29) Terphenyl-d14	20.24	244	878	0.05	ng	0.00

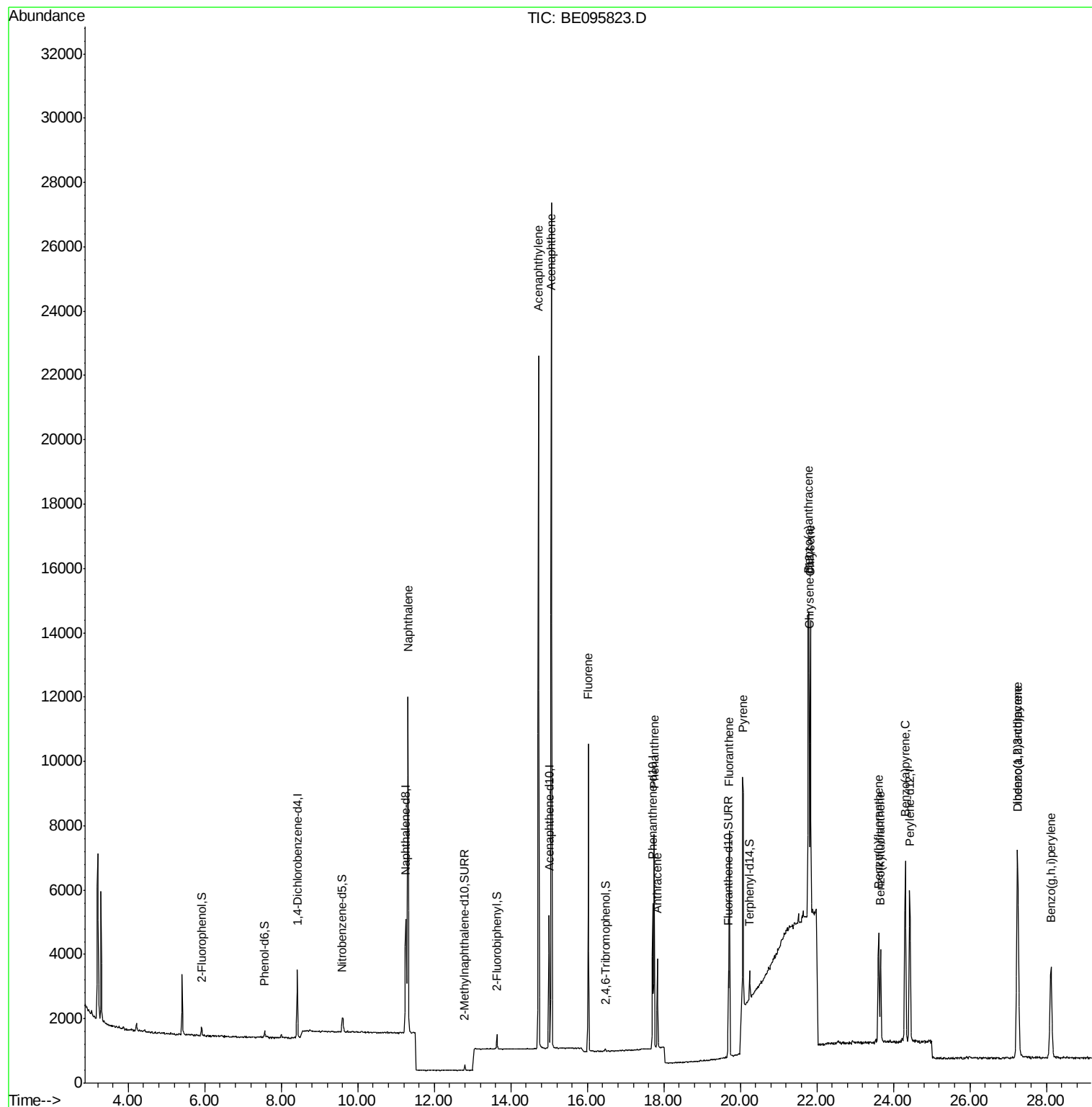
Target Compounds					Qvalue	
9) Naphthalene	11.31	128	17718	0.392	ng	100
16) Acenaphthylene	14.73	152	22398	1.667	ng	99
17) Acenaphthene	15.06	154	12689	1.549	ng	95
18) Fluorene	16.03	166	6514	0.604	ng	# 78
23) Phenanthrene	17.74	178	7109	0.395	ng	99
24) Anthracene	17.84	178	2738	0.152	ng	96
26) Fluoranthene	19.72	202	6492	0.259	ng	# 97
28) Pyrene	20.06	202	8224	0.269	ng	# 88
30) Benzo(a)anthracene	21.78	228	7344	0.282	ng	98
31) Chrysene	21.84	228	8183	0.344	ng	97
33) Indeno(1,2,3-cd)pyrene	27.25	276	10549	0.411	ng	# 92
35) Benzo(b)fluoranthene	23.61	252	5206	0.216	ng	96
36) Benzo(k)fluoranthene	23.67	252	4161	0.173	ng	# 78
37) Benzo(a)pyrene	24.31	252	9468	0.419	ng	# 91
38) Dibenzo(a,h)anthracene	27.26	278	5704	0.266	ng	92
39) Benzo(g,h,i)perylene	28.11	276	7423	0.344	ng	# 93

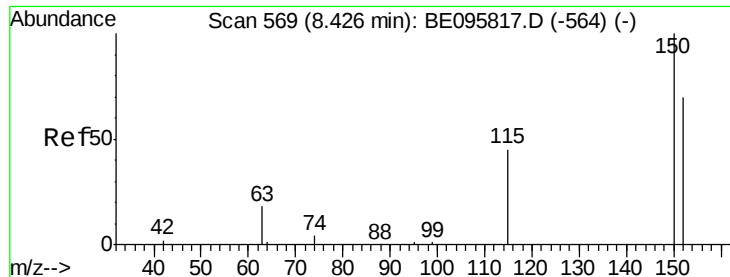
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE095823.D

Acq: 23 Mar 2018 14:05

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

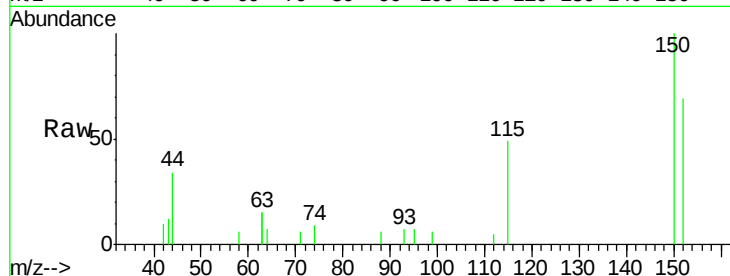
Tot Ion:152 Resp: 1026

Ion Ratio Lower Upper

152 100

150 144.7 117.2 175.8

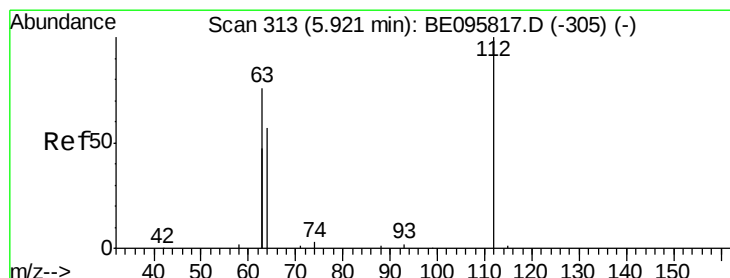
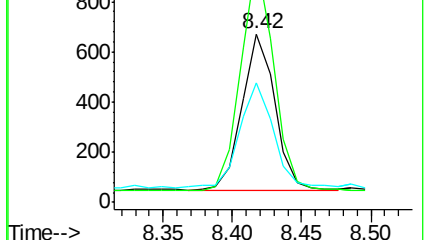
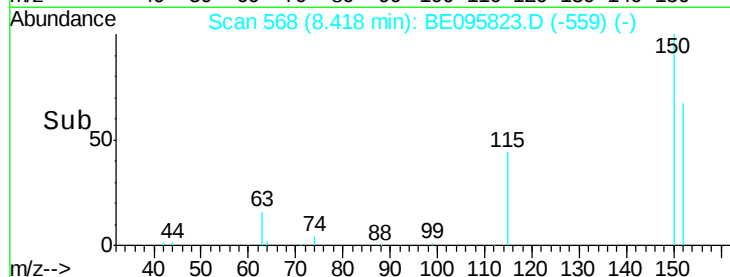
115 70.6 57.0 85.6



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: 0.043 ng

RT: 5.91 min Scan# 312

Delta R.T. -0.01 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

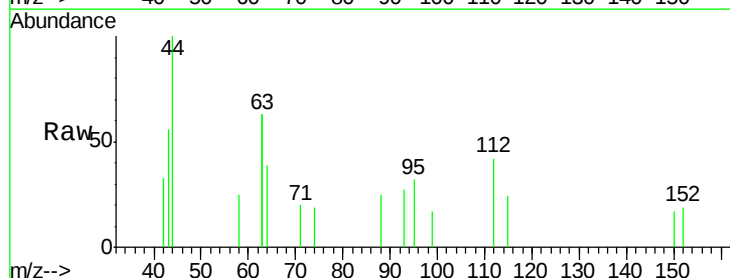
Tgt Ion:112 Resp: 144

Ion Ratio Lower Upper

112 100

64 77.1 60.1 90.1

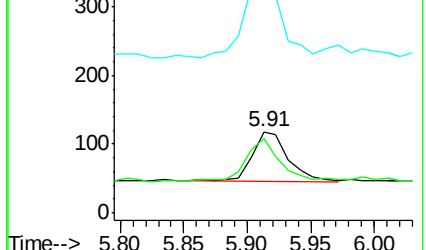
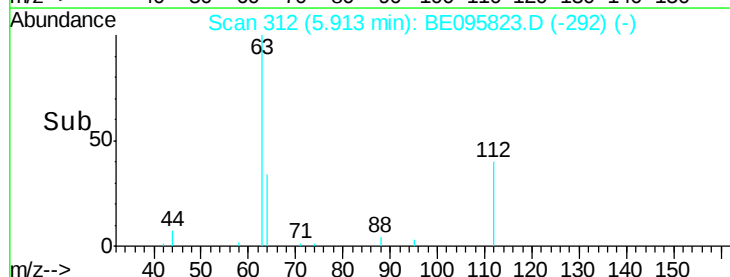
63 173.6 116.8 175.2

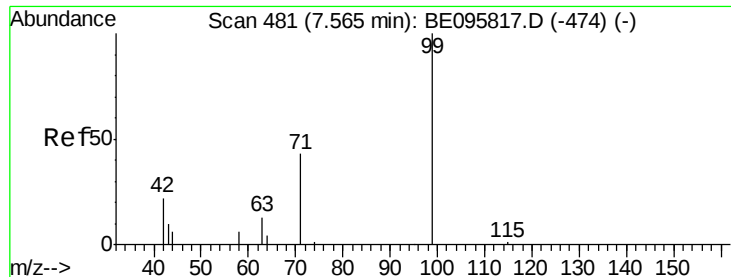


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.039 ng

RT: 7.57 min Scan# 481

Delta R.T. 0.00 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

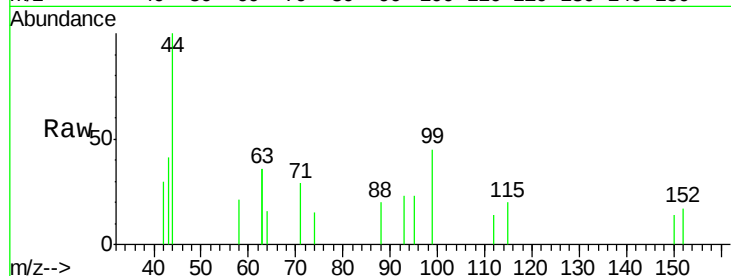
Tot Ion: 99 Resp: 183

Ion Ratio Lower Upper

99 100

42 26.8 20.2 30.2

71 50.8 28.4 42.6#

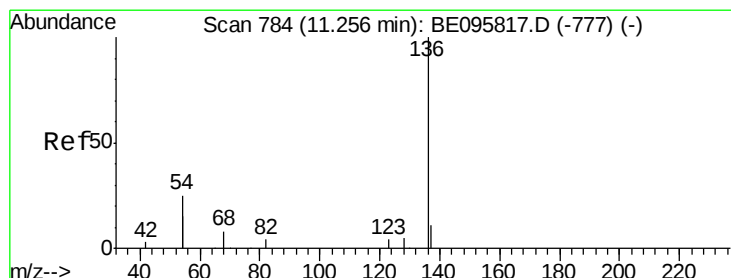
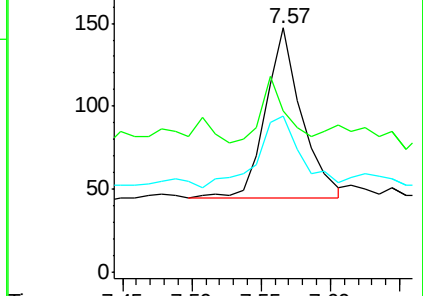
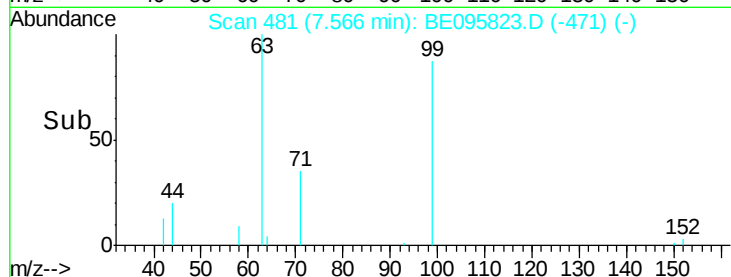


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0

Time--> 7.45 7.50 7.55 7.60



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.26 min Scan# 784

Delta R.T. 0.00 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

Tgt Ion: 136 Resp: 3955

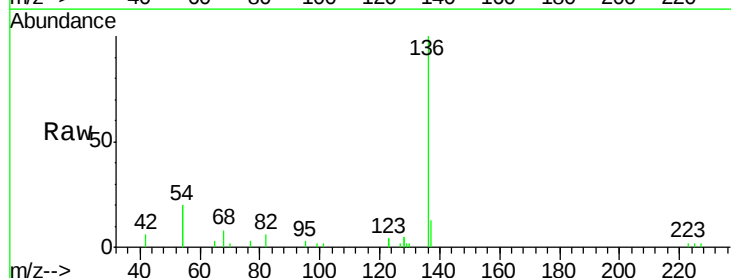
Ion Ratio Lower Upper

136 100

137 12.6 9.5 14.3

54 40.8 29.1 43.7

68 7.7 6.2 9.2



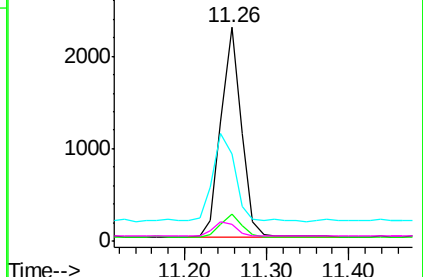
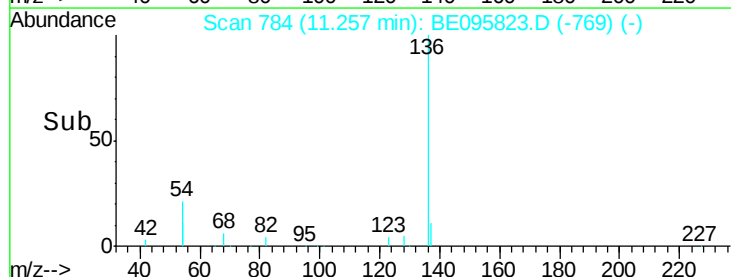
Abundance Ion 136.00 (135.70 to 136.70): E

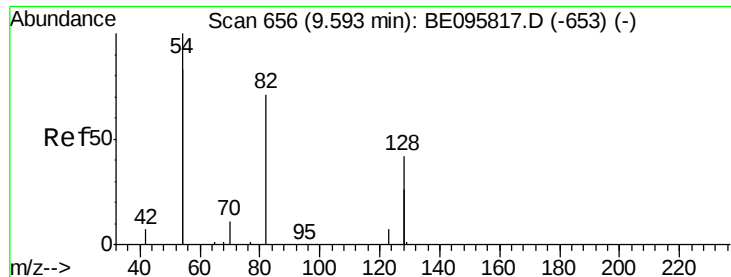
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0

Time--> 11.20 11.30 11.40





#8

Nitrobenzene-d5

Concen: 0.047 ng

RT: 9.59 min Scan# 656

Delta R.T. 0.00 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

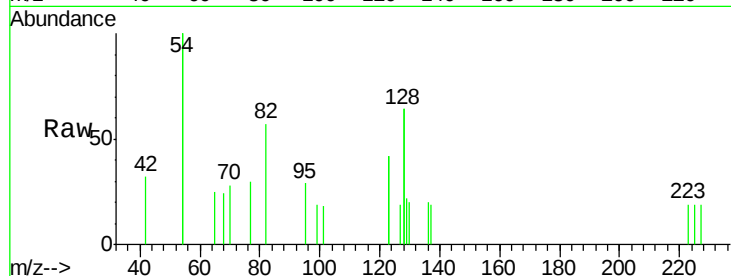
Tot Ion: 82 Resp: 221

Ion Ratio Lower Upper

82 100

128 224.3 150.0 225.0

54 352.9 154.2 231.4#

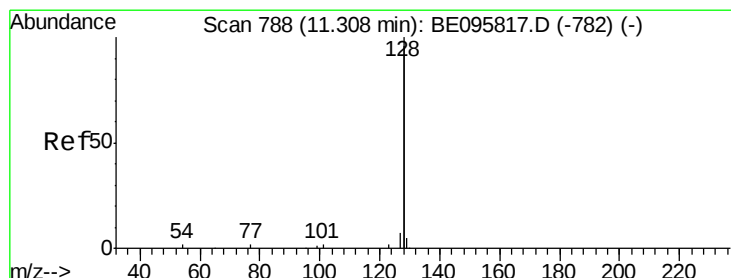
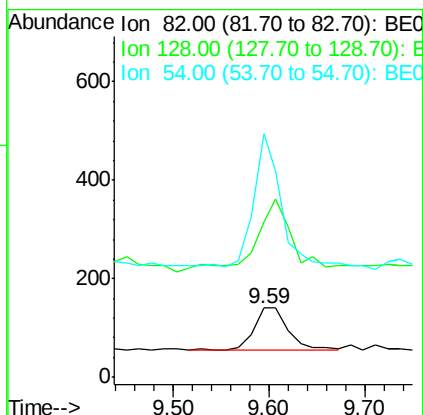
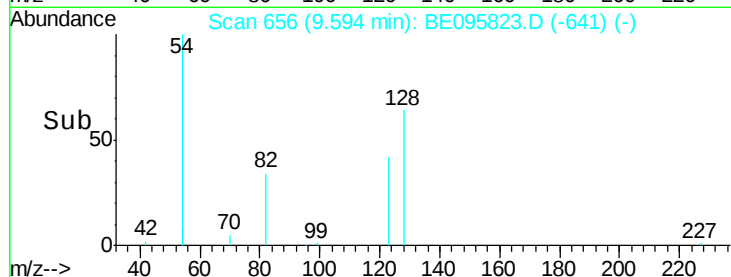


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0

Time-->



#9

Naphthalene

Concen: 0.392 ng

RT: 11.31 min Scan# 788

Delta R.T. 0.00 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

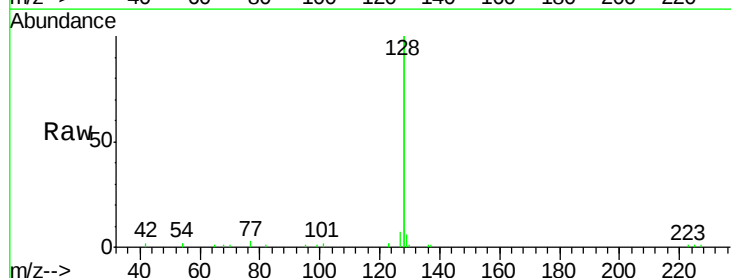
Tgt Ion:128 Resp: 17718

Ion Ratio Lower Upper

128 100

129 3.1 2.6 3.8

127 3.7 2.8 4.2

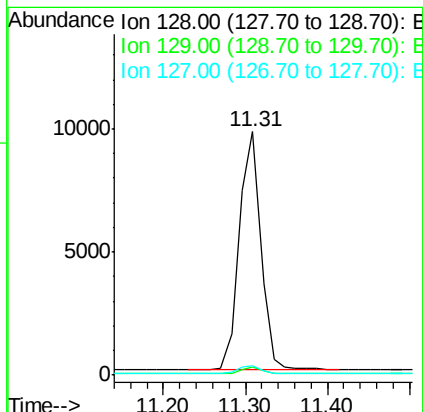
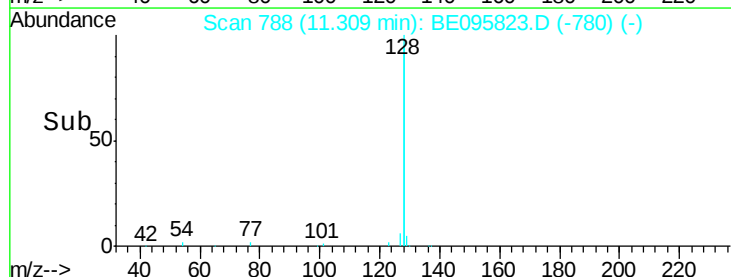


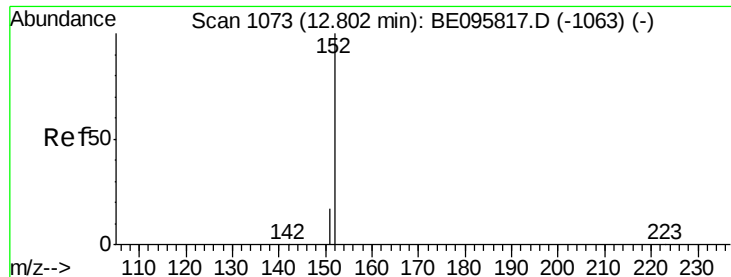
Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

Time-->

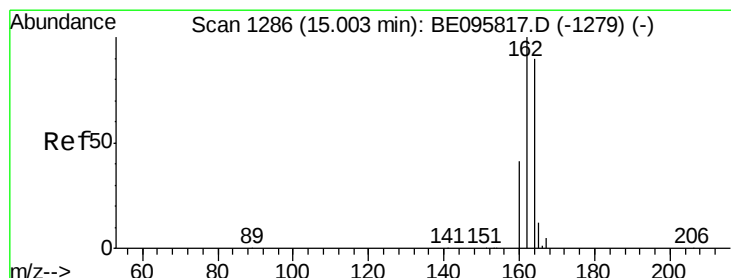
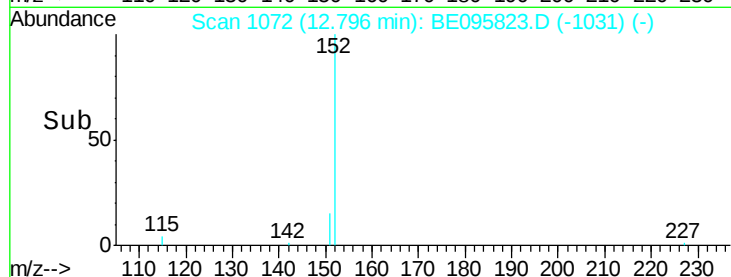
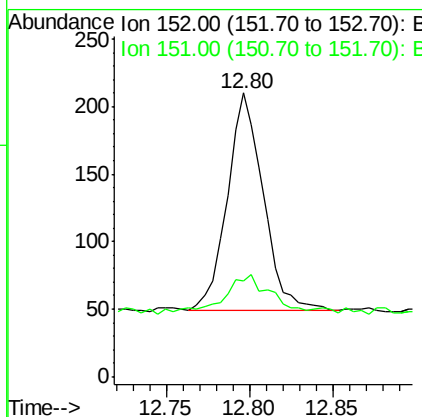
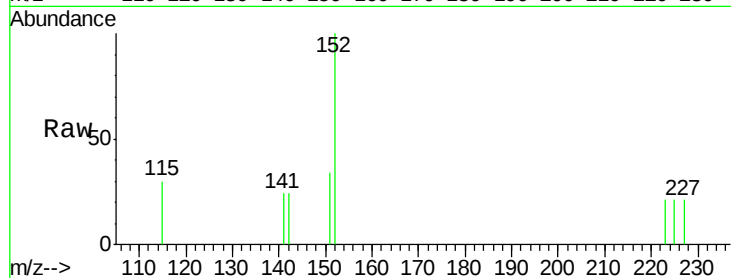




#11
2-Methylnaphthalene-d10
Concen: 0.037 ng
RT: 12.80 min Scan# 1072
Delta R.T. -0.01 min
Lab File: BE095823.D
Acq: 23 Mar 2018 14:05

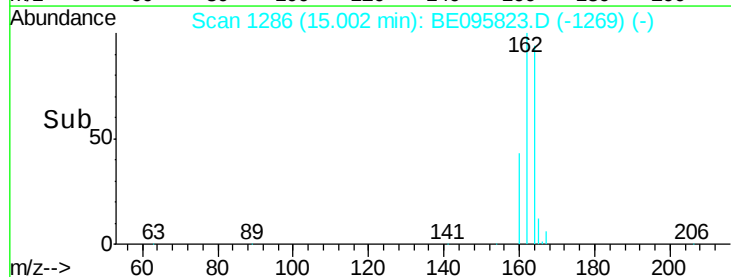
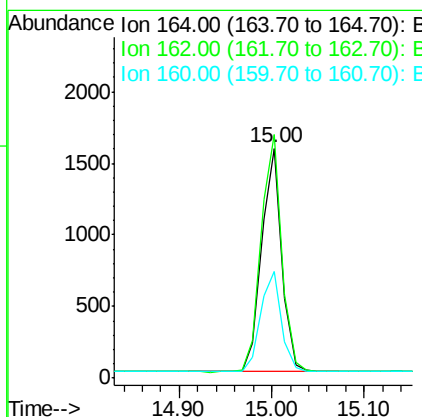
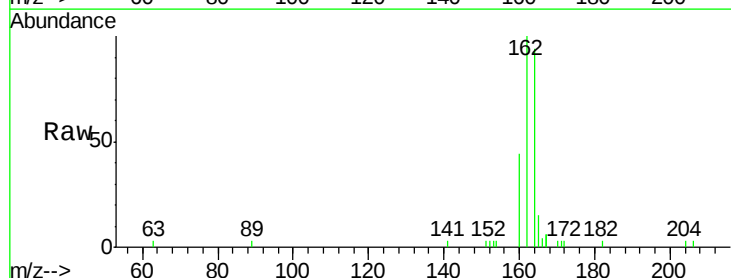
Instrument :
BNA_E
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RR-PAH-WPDL

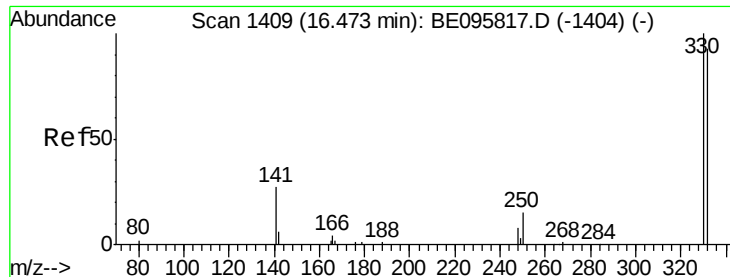
Tot Ion:152 Resp: 242
Ion Ratio Lower Upper
152 100
151 24.4 15.4 23.0#



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 15.00 min Scan# 1286
Delta R.T. -0.00 min
Lab File: BE095823.D
Acq: 23 Mar 2018 14:05

Tgt Ion:164 Resp: 2349
Ion Ratio Lower Upper
164 100
162 105.8 83.1 124.7
160 46.6 37.1 55.7

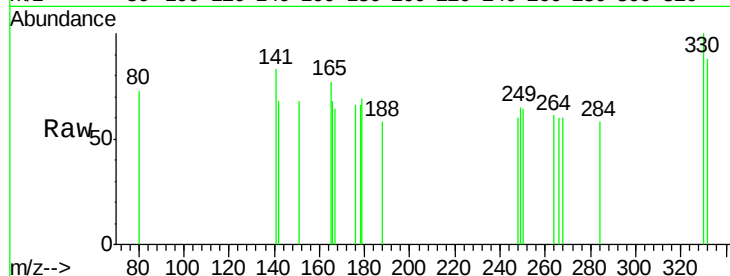




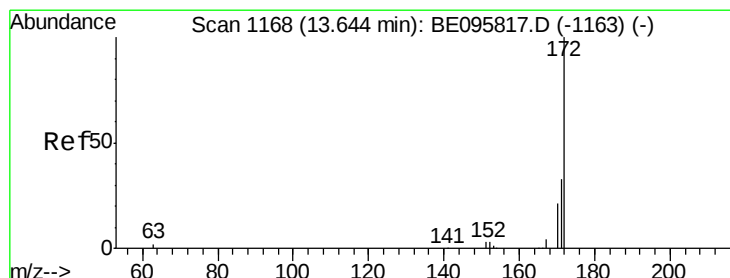
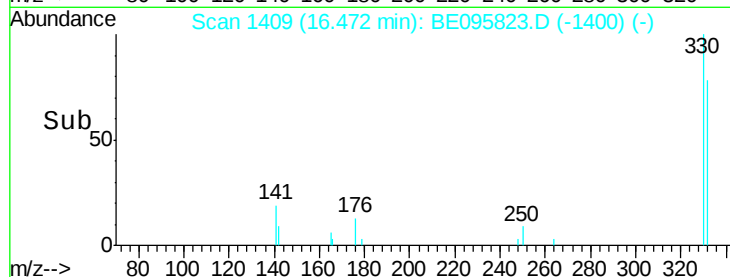
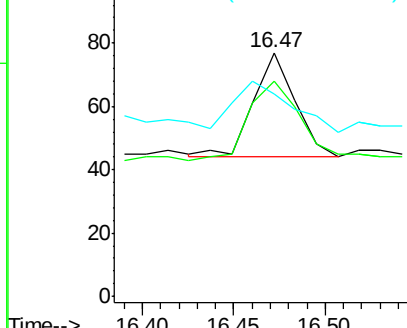
#14
 2,4,6-Tribromophenol
 Concen: 0.038 ng
 RT: 16.47 min Scan# 1409
 Delta R.T. -0.00 min
 Lab File: BE095823.D
 Acq: 23 Mar 2018 14:05

Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WPDL

Tot Ion:330 Resp: 52
 Ion Ratio Lower Upper
 330 100
 332 98.1 152.7 229.1#
 141 65.4 33.7 50.5#

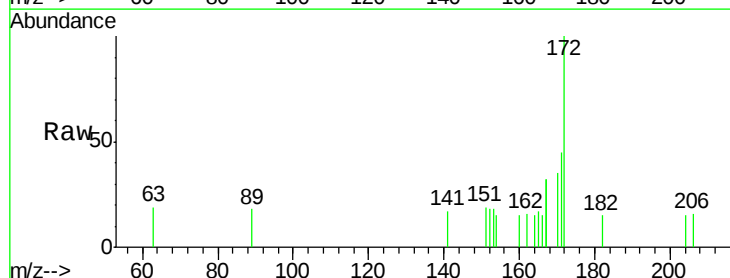


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

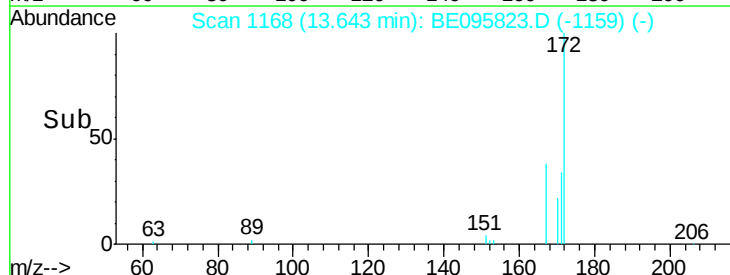
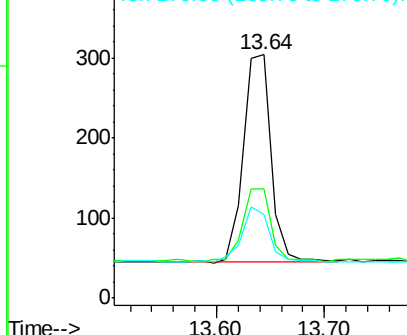


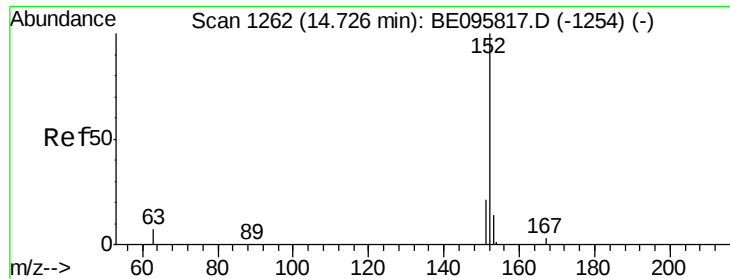
#15
 2-Fluorobiphenyl
 Concen: 0.047 ng
 RT: 13.64 min Scan# 1168
 Delta R.T. -0.00 min
 Lab File: BE095823.D
 Acq: 23 Mar 2018 14:05

Tgt Ion:172 Resp: 462
 Ion Ratio Lower Upper
 172 100
 171 44.7 29.9 44.9
 170 34.5 21.8 32.8#



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#16

Acenaphthylene

Concen: 1.667 ng

RT: 14.73 min Scan# 1262

Delta R.T. -0.00 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

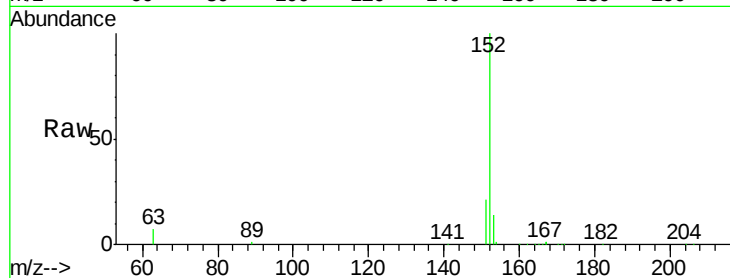
Tot Ion:152 Resp: 22398

Ion Ratio Lower Upper

152 100

151 20.3 15.7 23.5

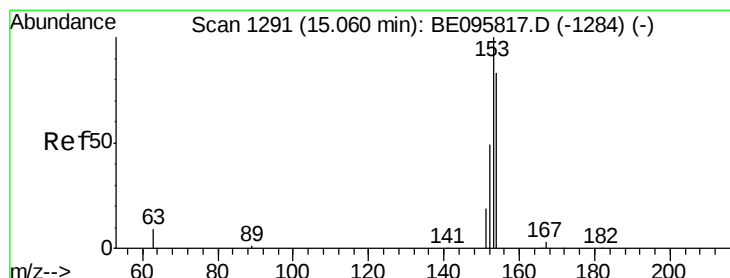
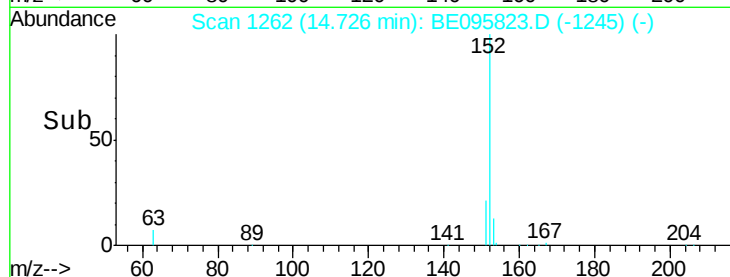
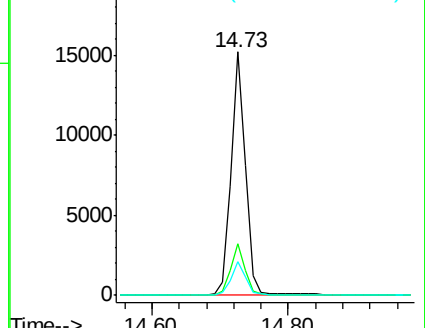
153 13.2 10.5 15.7



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



#17

Acenaphthene

Concen: 1.549 ng

RT: 15.06 min Scan# 1291

Delta R.T. -0.00 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

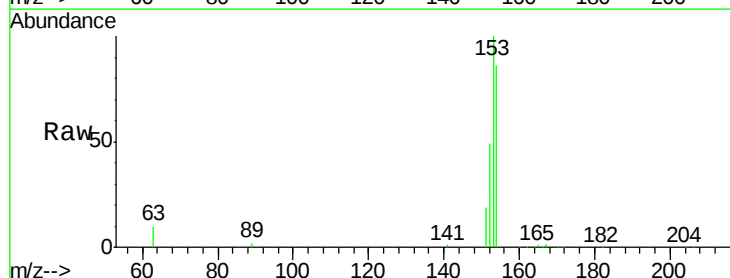
Tgt Ion:154 Resp: 12689

Ion Ratio Lower Upper

154 100

153 116.3 89.2 133.8

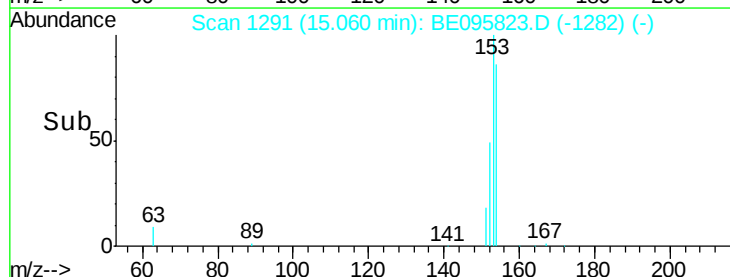
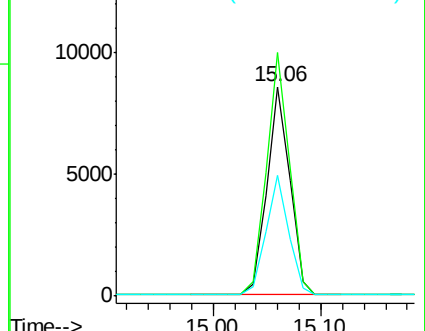
152 56.6 42.0 63.0

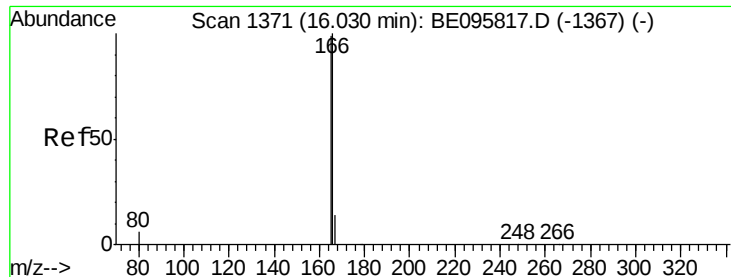


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#18

Fluorene

Concen: 0.604 ng

RT: 16.03 min Scan# 1371

Delta R.T. -0.00 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

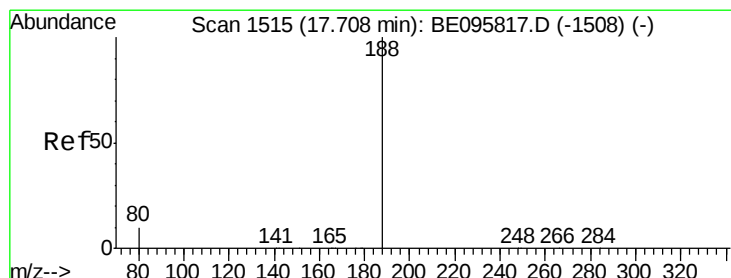
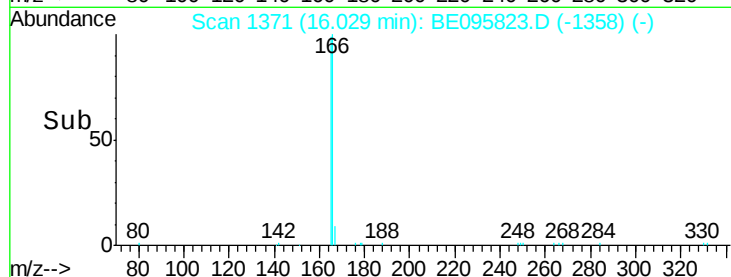
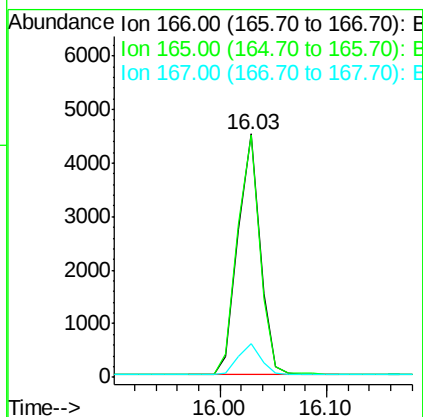
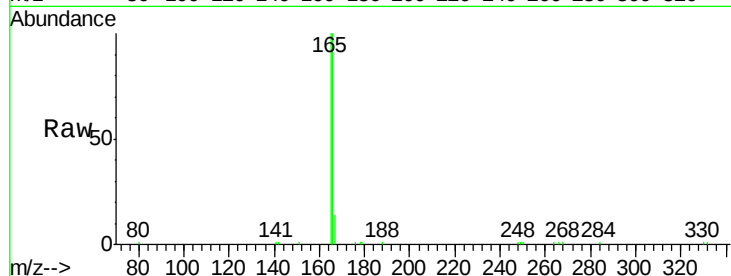
Tot Ion:166 Resp: 6514

Ion Ratio Lower Upper

166 100

165 100.6 77.8 116.6

167 13.1 42.4 63.6#



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.71 min Scan# 1515

Delta R.T. -0.00 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

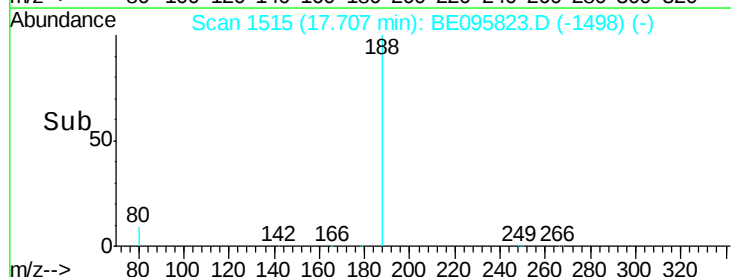
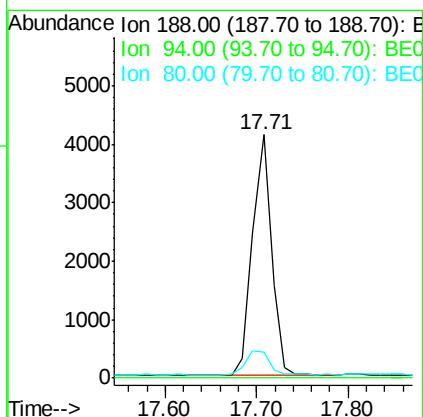
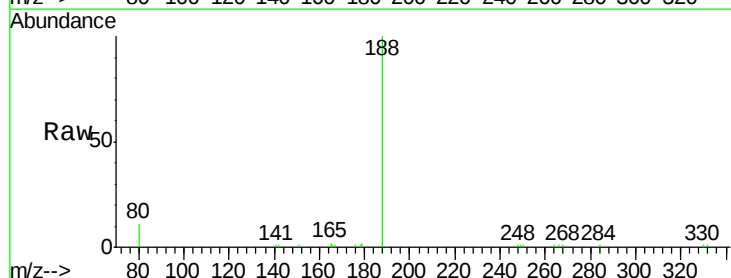
Tgt Ion:188 Resp: 6017

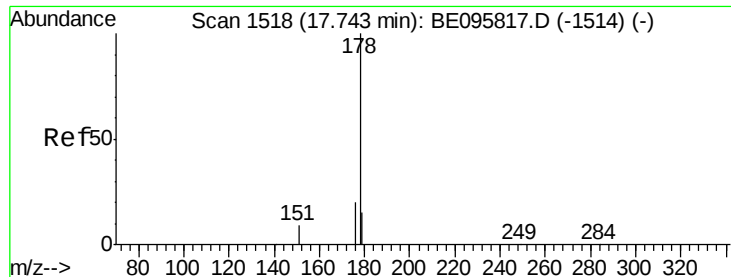
Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

80 10.5 3.6 5.4#





#23

Phenanthrene

Concen: 0.395 ng

RT: 17.74 min Scan# 1518

Delta R.T. -0.00 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

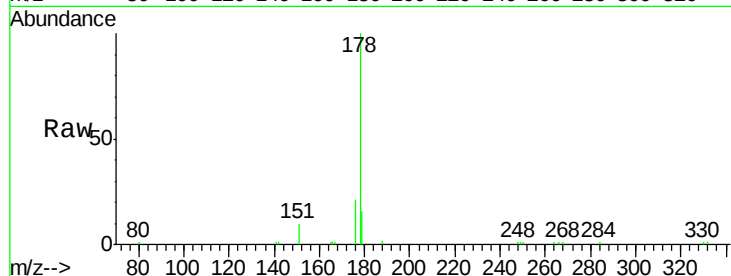
Tot Ion:178 Resp: 7109

Ion Ratio Lower Upper

178 100

176 19.5 15.1 22.7

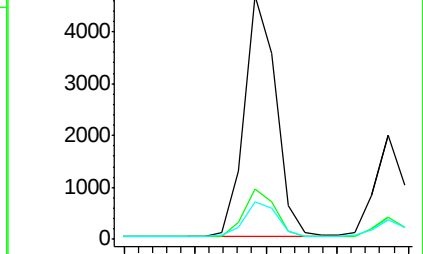
179 14.7 11.8 17.6



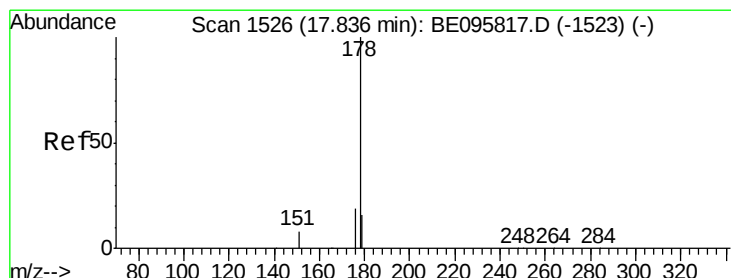
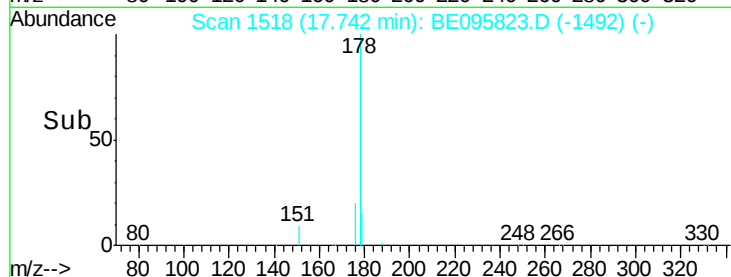
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time--> 17.65 17.70 17.75 17.80



#24

Anthracene

Concen: 0.152 ng

RT: 17.84 min Scan# 1526

Delta R.T. -0.00 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

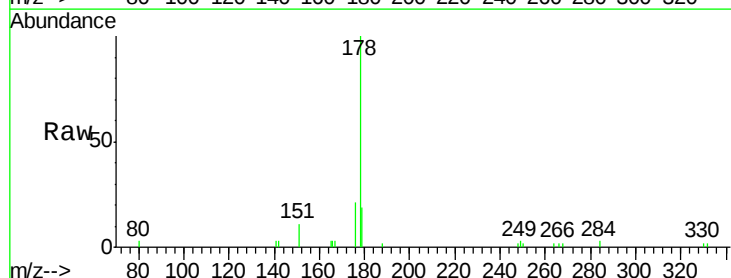
Tgt Ion:178 Resp: 2738

Ion Ratio Lower Upper

178 100

176 18.8 12.8 19.2

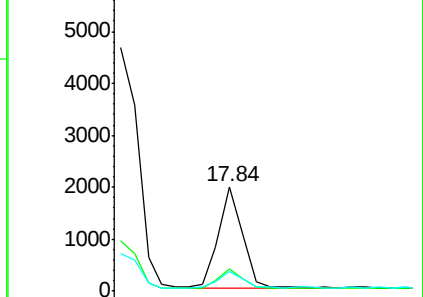
179 15.9 13.0 19.6



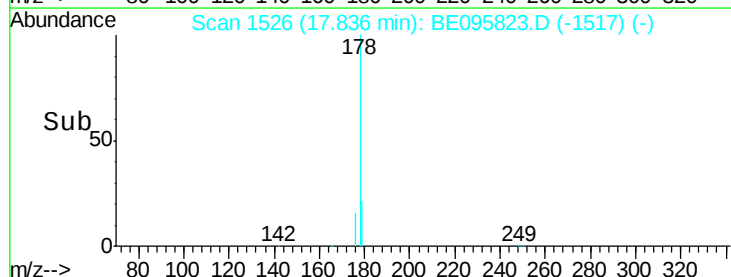
Abundance Ion 178.00 (177.70 to 178.70): E

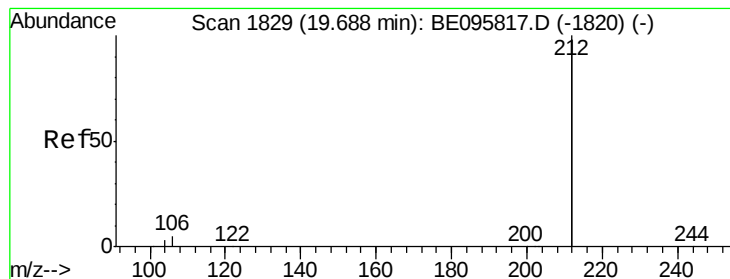
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time--> 17.80 17.90





#25

Fluoranthene-d10

Concen: 0.040 ng

RT: 19.69 min Scan# 1829

Delta R.T. 0.00 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

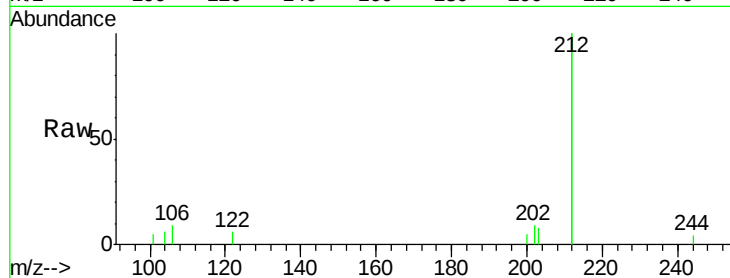
Tot Ion:212 Resp: 3576

Ion Ratio Lower Upper

212 100

106 2.9 2.8 4.2

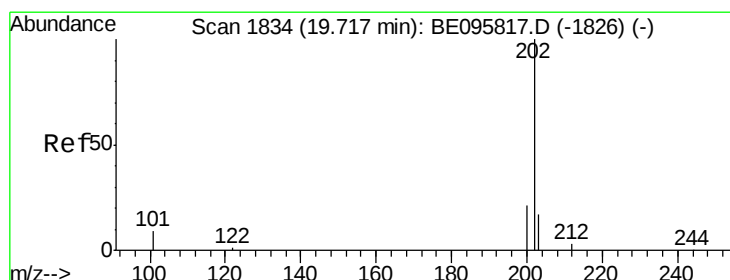
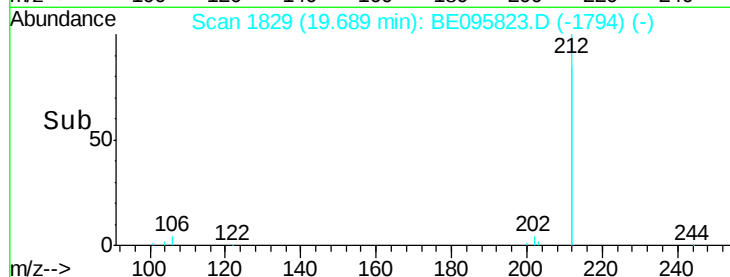
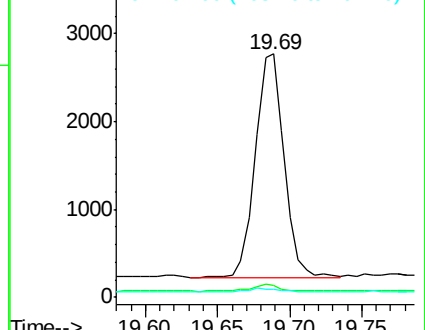
104 1.7 1.6 2.4



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.259 ng

RT: 19.72 min Scan# 1834

Delta R.T. 0.00 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

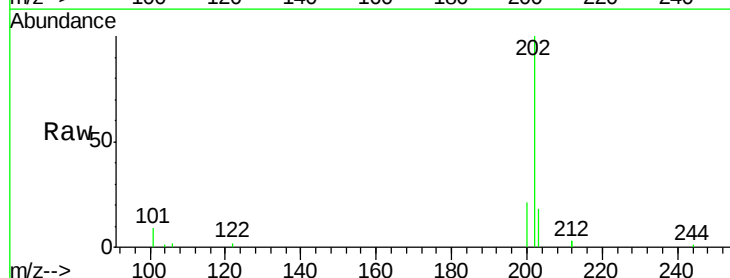
Tgt Ion:202 Resp: 6492

Ion Ratio Lower Upper

202 100

101 9.4 9.8 14.8#

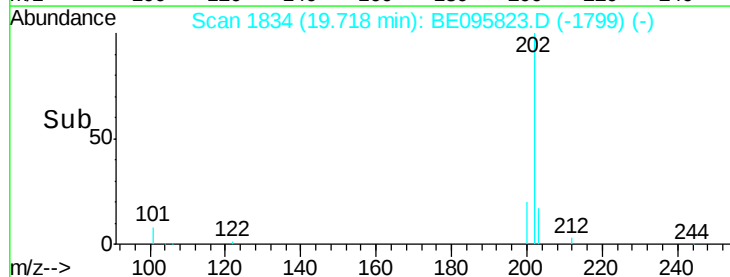
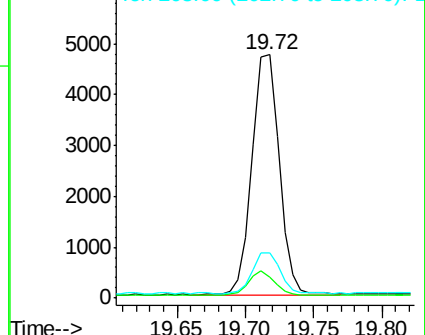
203 17.3 13.7 20.5

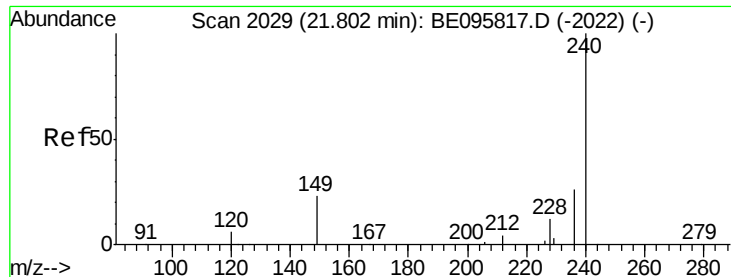


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.80 min Scan# 2029

Delta R.T. -0.00 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

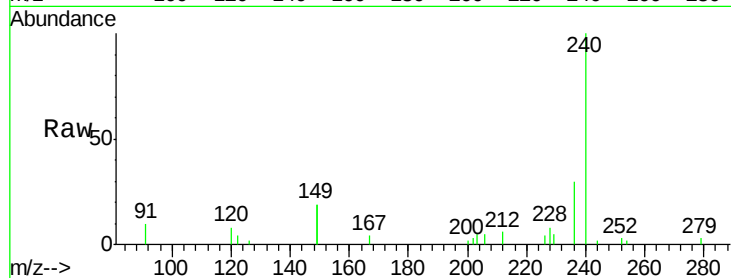
Tot Ion:240 Resp: 7519

Ion Ratio Lower Upper

240 100

120 7.9 5.5 8.3

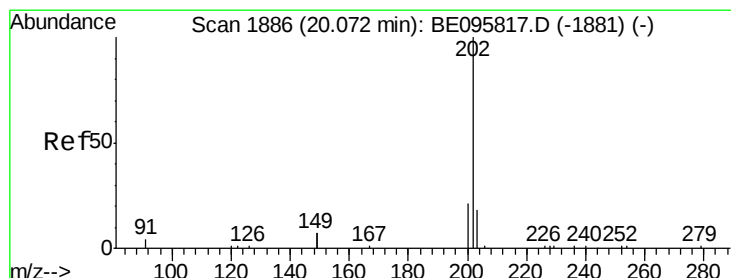
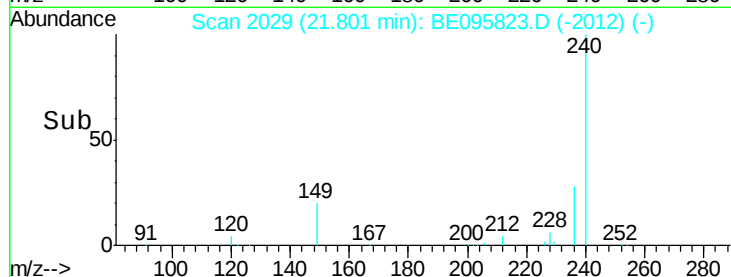
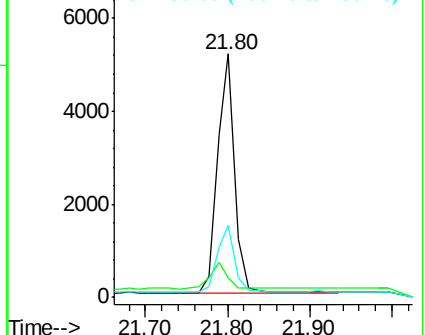
236 29.5 20.7 31.1



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: 0.269 ng

RT: 20.06 min Scan# 1885

Delta R.T. -0.01 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

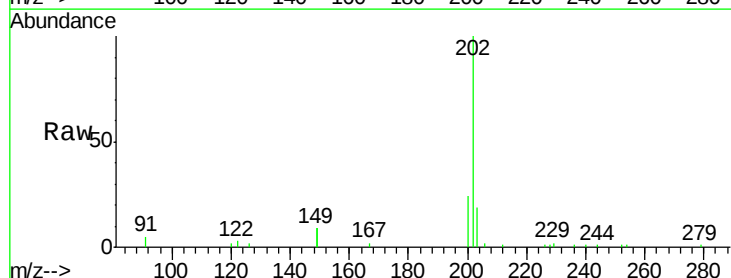
Tgt Ion:202 Resp: 8224

Ion Ratio Lower Upper

202 100

200 25.7 16.6 25.0#

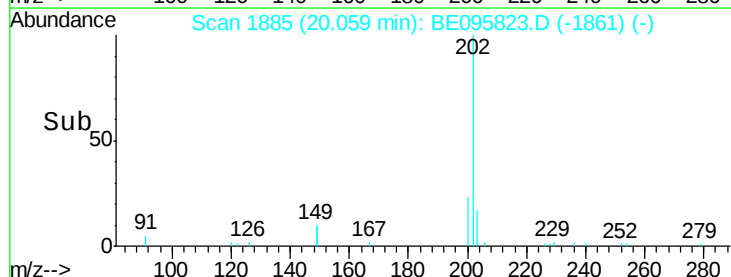
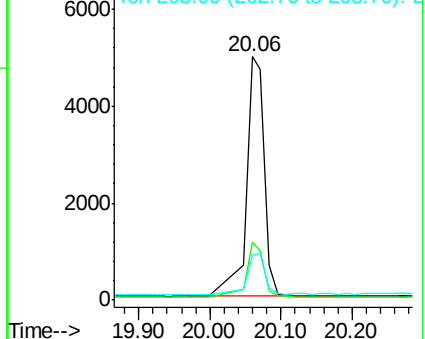
203 23.0 13.8 20.8#

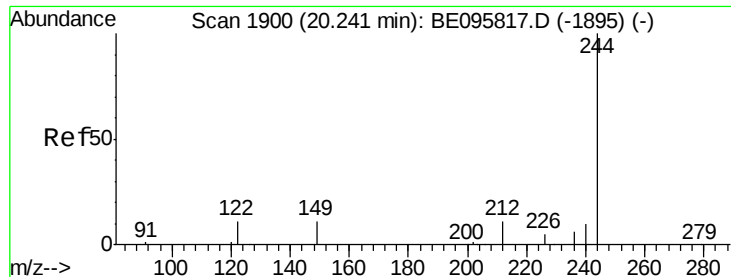


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.055 ng

RT: 20.24 min Scan# 1900

Delta R.T. -0.00 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

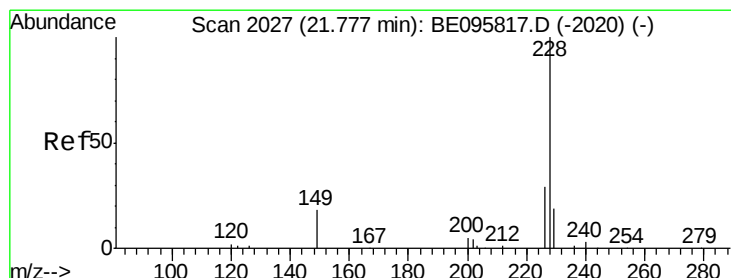
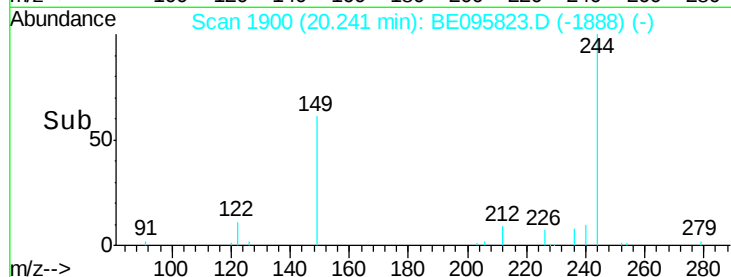
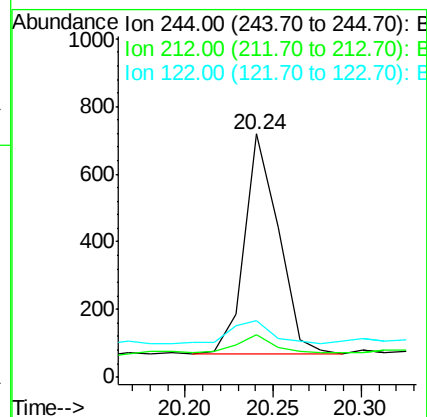
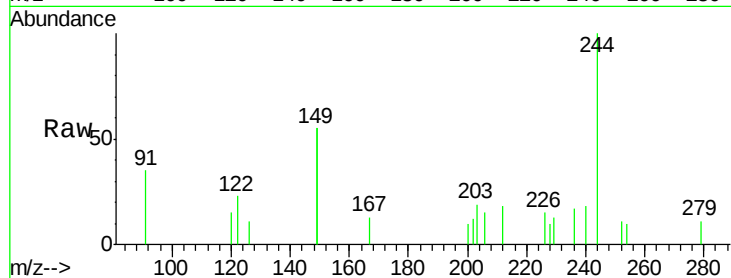
Tot Ion:244 Resp: 878

Ion Ratio Lower Upper

244 100

212 17.7 25.4 38.0#

122 23.4 8.1 12.1#



#30

Benzo(a)anthracene

Concen: 0.282 ng

RT: 21.78 min Scan# 2027

Delta R.T. -0.00 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

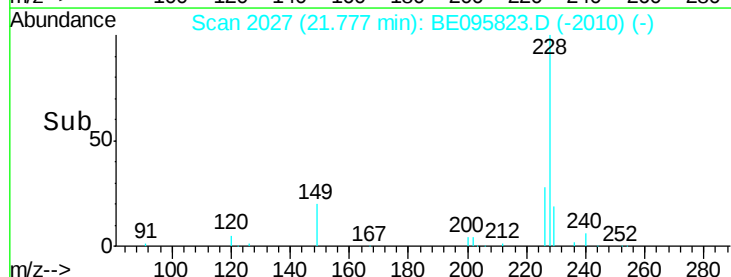
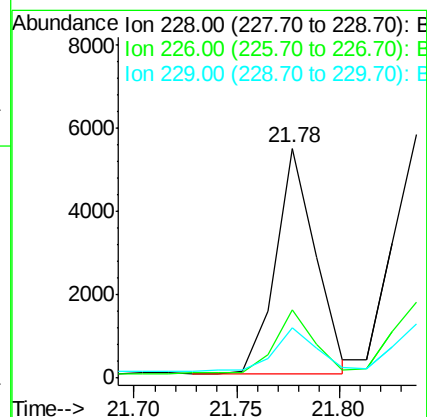
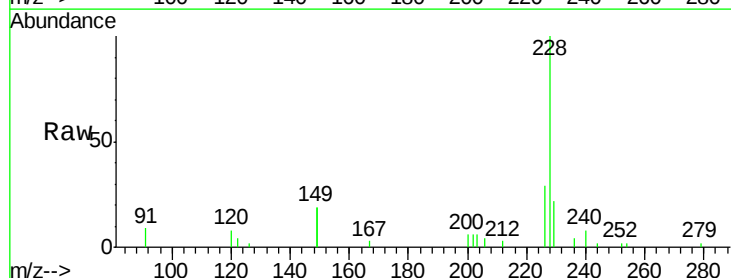
Tgt Ion:228 Resp: 7344

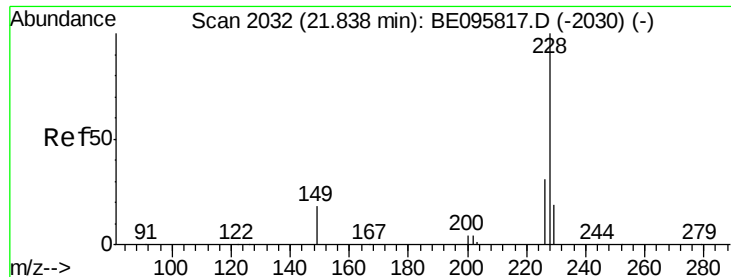
Ion Ratio Lower Upper

228 100

226 29.4 24.0 36.0

229 22.0 16.0 24.0





#31

Chrysene

Concen: 0.344 ng

RT: 21.84 min Scan# 2032

Delta R.T. -0.00 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

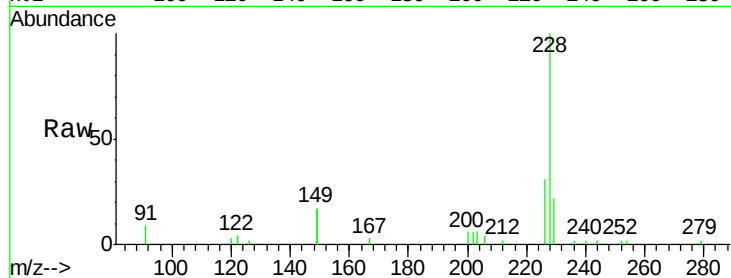
Tot Ion:228 Resp: 8183

Ion Ratio Lower Upper

228 100

226 31.1 24.0 36.0

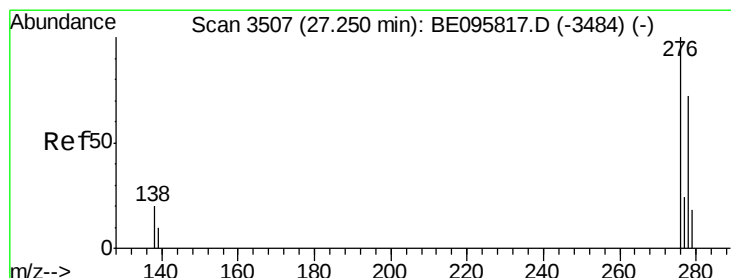
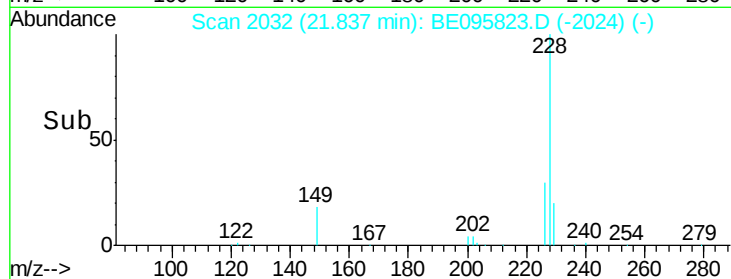
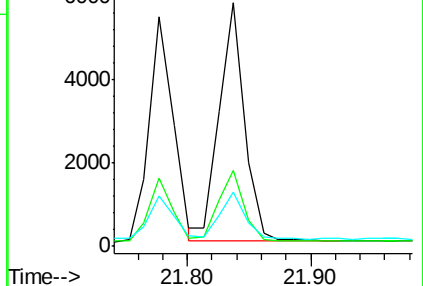
229 22.4 16.0 24.0



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: 0.411 ng

RT: 27.25 min Scan# 3506

Delta R.T. -0.00 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

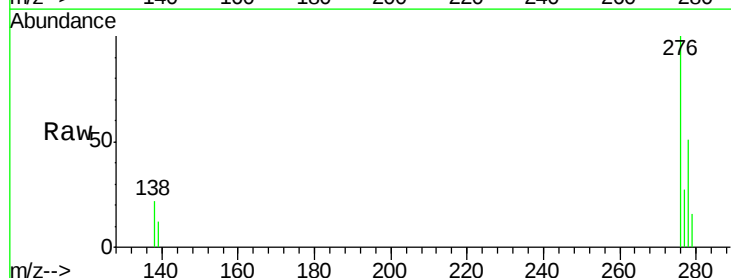
Tgt Ion:276 Resp: 10549

Ion Ratio Lower Upper

276 100

138 20.4 22.5 33.7#

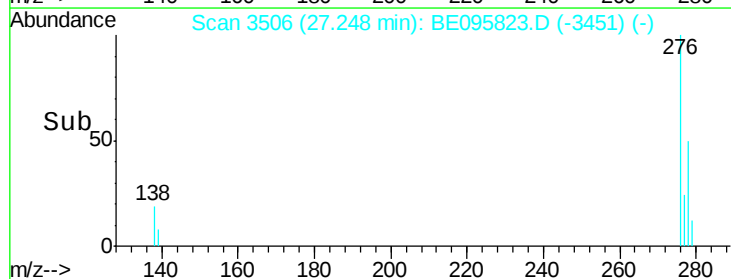
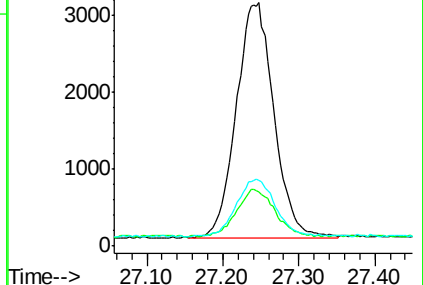
277 24.3 19.9 29.9

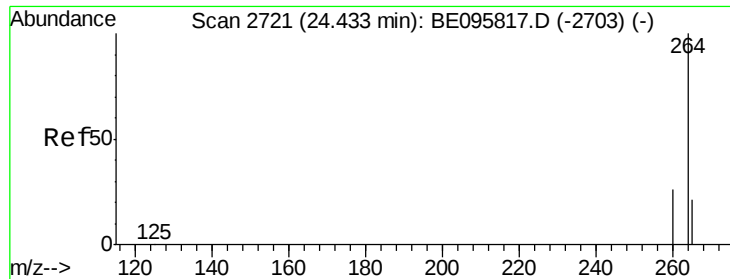


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

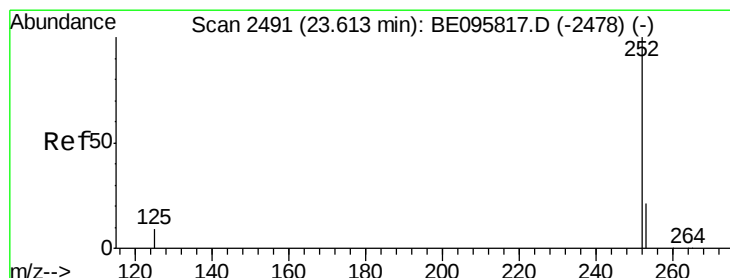
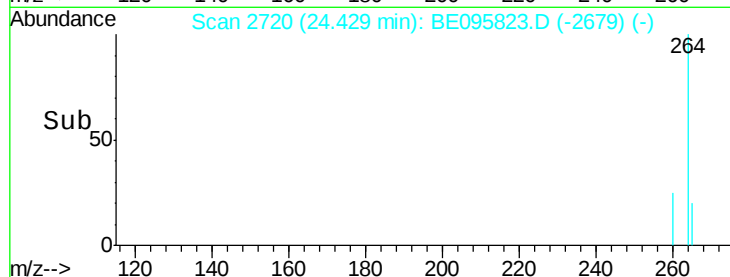
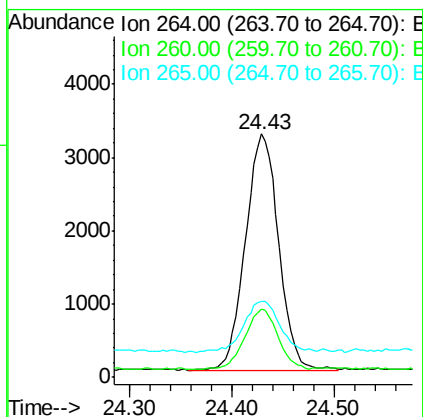
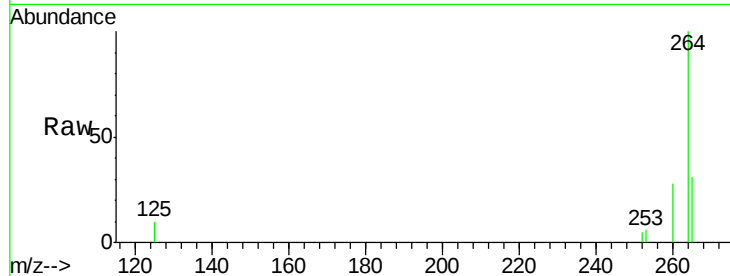




#34
Pervlene-d12
Concen: 0.400 ng
RT: 24.43 min Scan# 2720
Delta R.T. -0.00 min
Lab File: BE095823.D
Acq: 23 Mar 2018 14:05

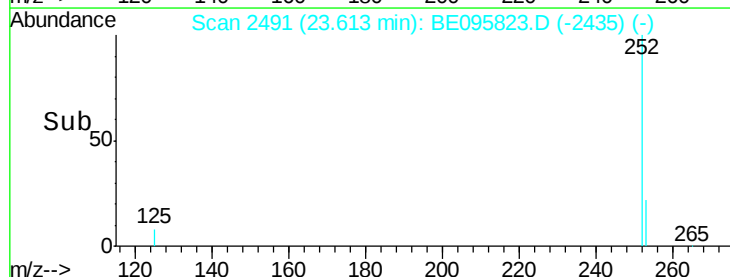
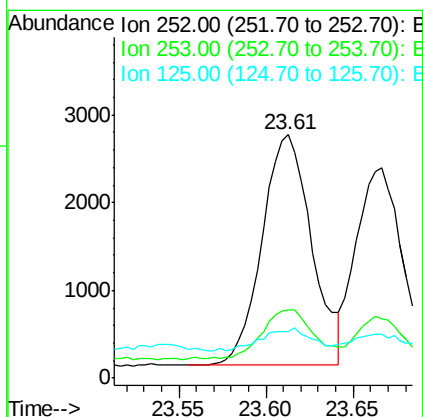
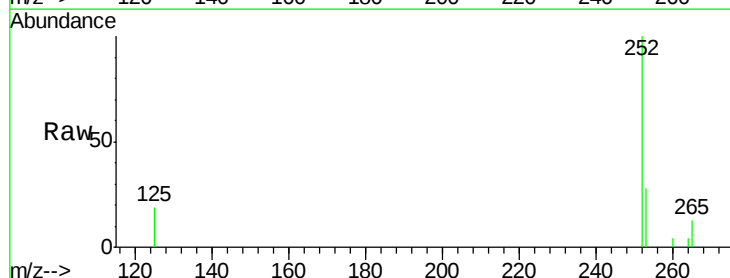
Instrument :
BNA_E
ClientSampleId :
RR-PAH-WPDL

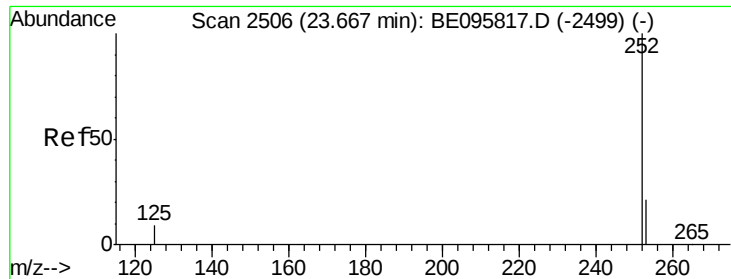
Tot Ion:264 Resp: 7282
Ion Ratio Lower Upper
264 100
260 27.9 20.5 30.7
265 31.0 22.8 34.2



#35
Benzo(b)fluoranthene
Concen: 0.216 ng
RT: 23.61 min Scan# 2491
Delta R.T. -0.00 min
Lab File: BE095823.D
Acq: 23 Mar 2018 14:05

Tgt Ion:252 Resp: 5206
Ion Ratio Lower Upper
252 100
253 28.1 20.0 30.0
125 19.2 16.0 24.0





#36

Benzo(k)fluoranthene

Concen: 0.173 ng

RT: 23.67 min Scan# 2506

Delta R.T. -0.00 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

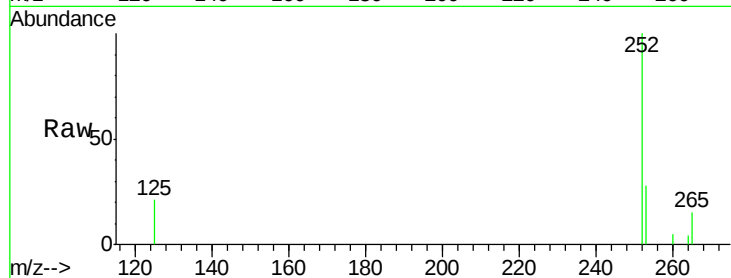
Tot Ion:252 Resp: 4161

Ion Ratio Lower Upper

252 100

253 28.3 16.0 24.0#

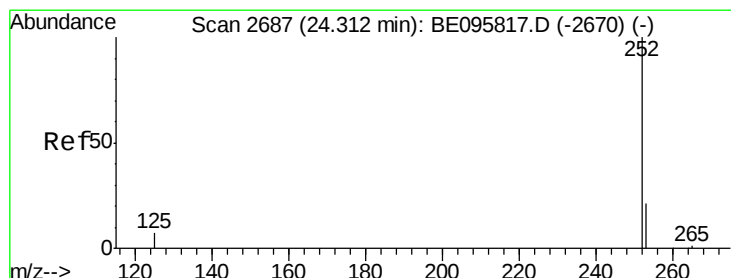
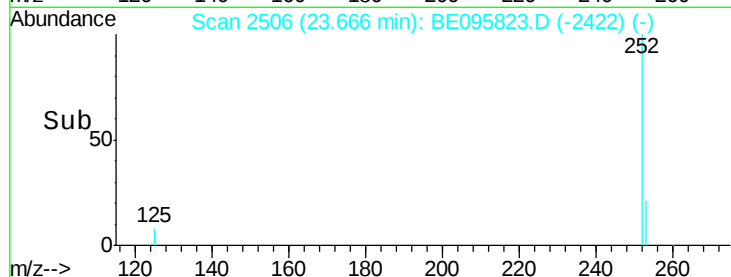
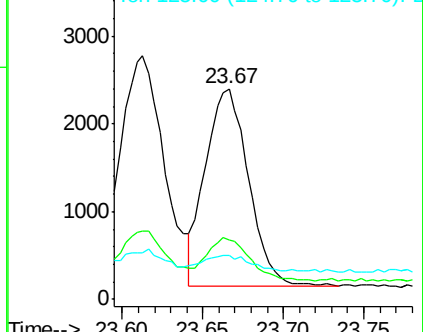
125 20.7 8.0 12.0#



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: 0.419 ng

RT: 24.31 min Scan# 2687

Delta R.T. -0.00 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

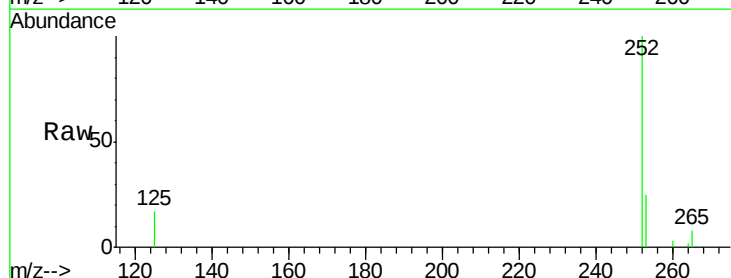
Tgt Ion:252 Resp: 9468

Ion Ratio Lower Upper

252 100

253 25.3 16.0 24.0#

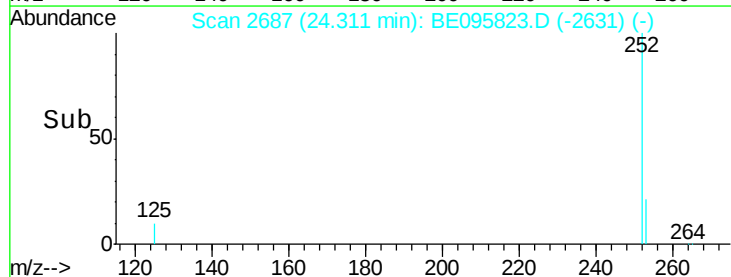
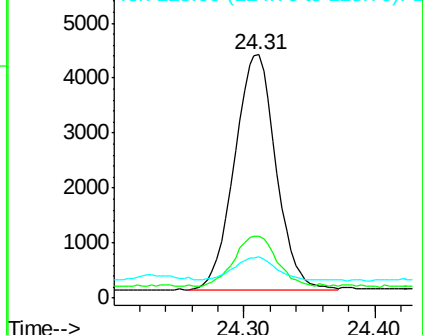
125 17.1 12.0 18.0

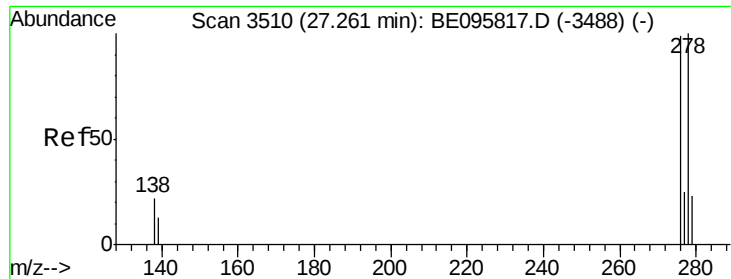


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Dibenzo(a,h)anthracene

Concen: 0.266 ng

RT: 27.26 min Scan# 3509

Delta R.T. -0.00 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

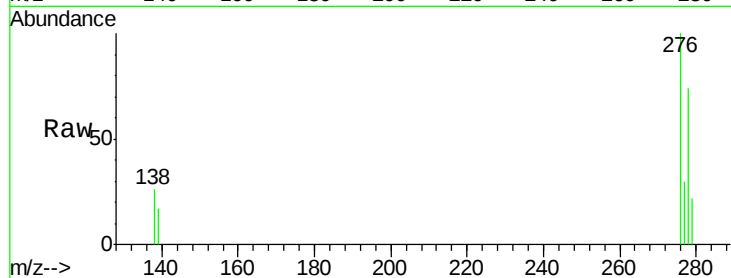
Tot Ion:278 Resp: 5704

Ion Ratio Lower Upper

278 100

139 22.6 16.0 24.0

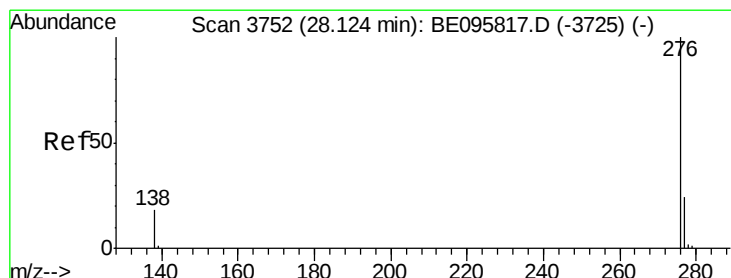
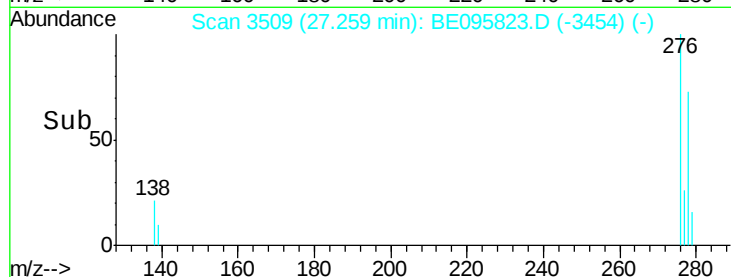
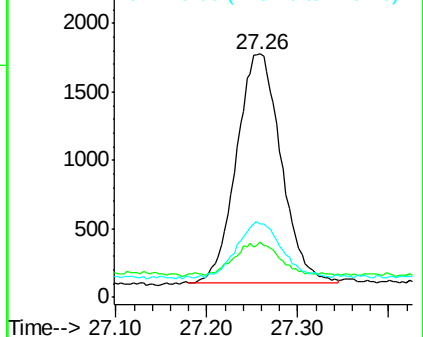
279 30.0 20.0 30.0



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#39

Benzo(g,h,i)perylene

Concen: 0.344 ng

RT: 28.11 min Scan# 3749

Delta R.T. -0.01 min

Lab File: BE095823.D

Acq: 23 Mar 2018 14:05

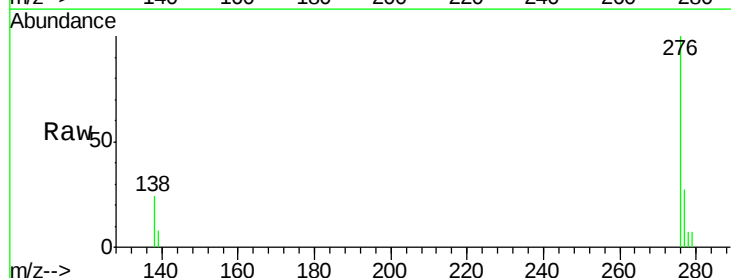
Tgt Ion:276 Resp: 7423

Ion Ratio Lower Upper

276 100

277 26.8 16.0 24.0#

138 24.2 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

