

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE121417\
 Data File : BE094989.D
 Acq On : 14 Dec 2017 22:33
 Operator : SJ/JU
 Sample : I6876-04
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 KY038PS033-171211

Quant Time: Dec 15 08:13:18 2017
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 14 18:42:53 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.47	152	6854	0.40	ng	0.00
7) Naphthalene-d8	11.33	136	15024	0.40	ng	0.00
13) Acenaphthene-d10	15.06	164	8439	0.40	ng	0.00
19) Phenanthrene-d10	17.77	188	19635	0.40	ng	0.00
27) Chrysene-d12	21.87	240	22005	0.40	ng	0.00
34) Perylene-d12	24.54	264	18220	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.95	112	1861	0.17	ng	0.00
5) Phenol-d6	7.59	99	1738	0.11	ng	0.00
8) Nitrobenzene-d5	9.65	82	6091	0.49	ng	0.00
11) 2-Methylnaphthalene-d10	12.86	152	9973	0.41	ng	0.00
14) 2,4,6-Tribromophenol	16.53	330	998	0.51	ng	0.00
15) 2-Fluorobiphenyl	13.70	172	16462	0.44	ng	0.00
25) Fluoranthene-d10	19.75	212	110140	0.43	ng	0.00
29) Terphenyl-d14	20.31	244	23138	0.56	ng	0.00

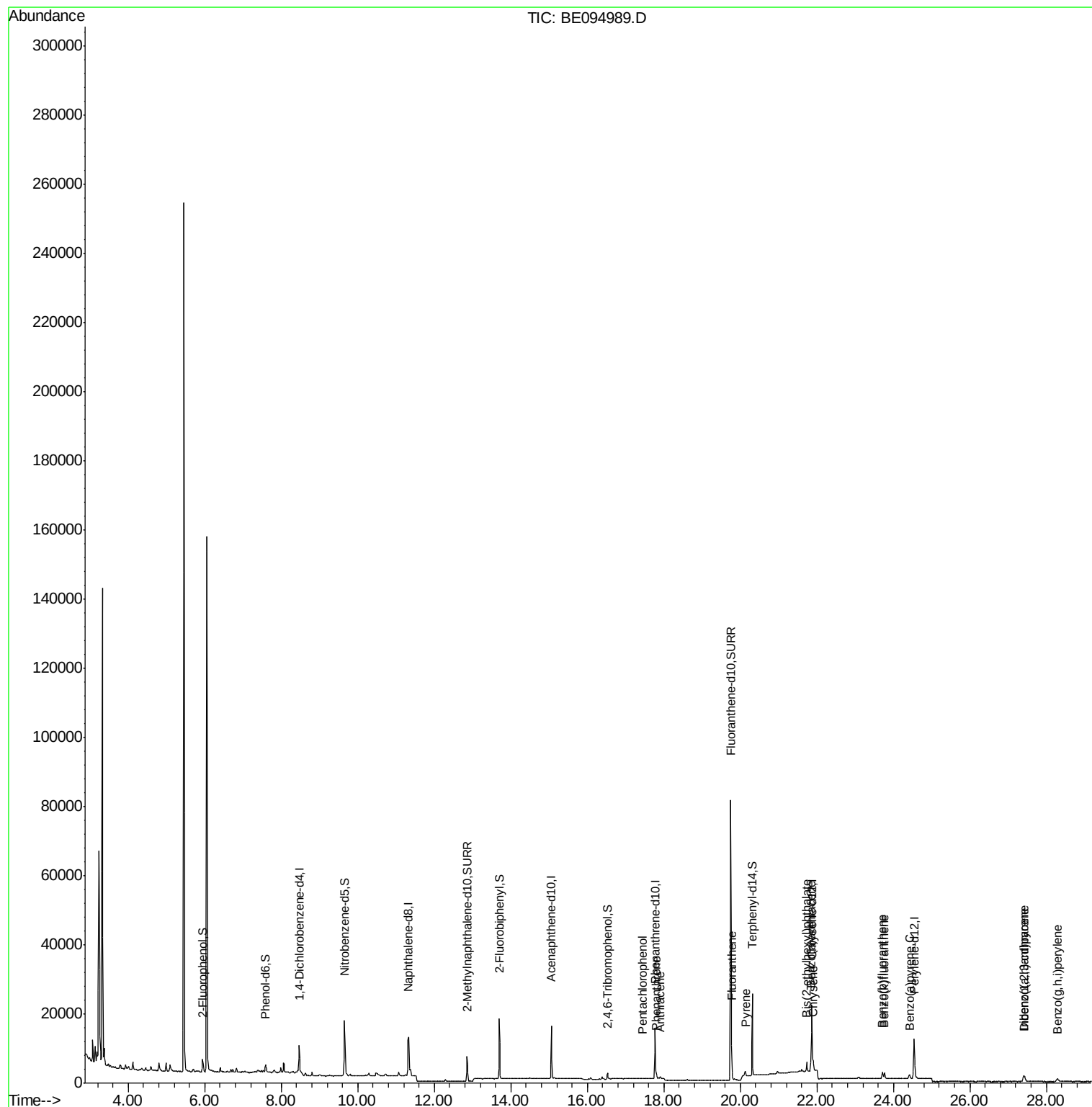
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
22) Pentachlorophenol	17.43	266	31	0.090	ng	94
23) Phenanthrene	17.80	178	1399	0.023	ng	# 93
24) Anthracene	17.91	178	1273	0.020	ng	# 39
26) Fluoranthene	19.78	202	1636	0.022	ng	96
28) Pyrene	20.13	202	1586	0.021	ng	96
30) Benzo(a)anthracene	21.86	228	2982	0.046	ng	# 65
31) Chrysene	21.90	228	3404	0.047	ng	# 69
32) Bis(2-ethylhexyl)phthalate	21.73	149	3702	0.045	ng	# 100
33) Indeno(1,2,3-cd)pyrene	27.41	276	2708	0.046	ng	97
35) Benzo(b)fluoranthene	23.71	252	2838	0.042	ng	# 85
36) Benzo(k)fluoranthene	23.76	252	2615	0.039	ng	# 70
37) Benzo(a)pyrene	24.43	252	1805	0.030	ng	# 50
38) Dibenzo(a,h)anthracene	27.43	278	2159	0.039	ng	# 77
39) Benzo(g,h,i)perylene	28.29	276	2310	0.042	ng	# 84

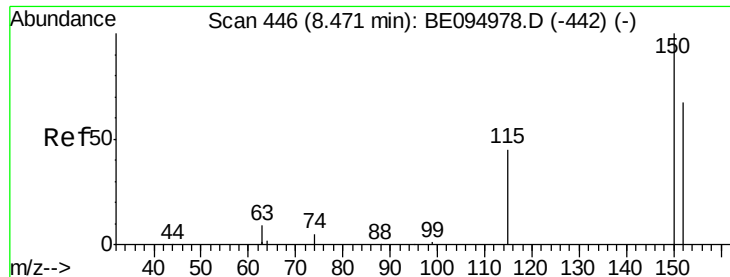
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 8.47 min Scan# 446

Delta R.T. 0.00 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

Instrument :

BNA_E

ClientSampleId :

KY038PS033-171211

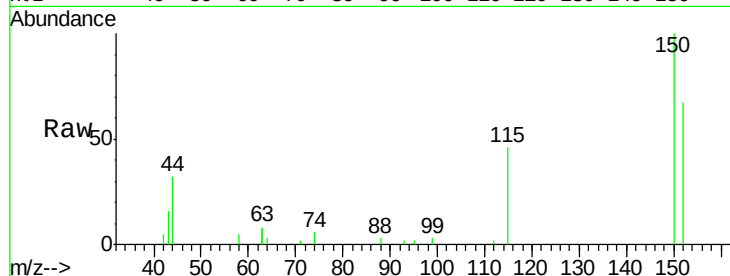
Tgt Ion:152 Resp: 6854

Ion Ratio Lower Upper

152 100

150 148.9 117.2 175.8

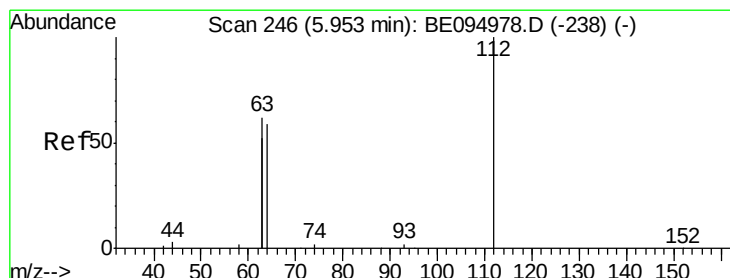
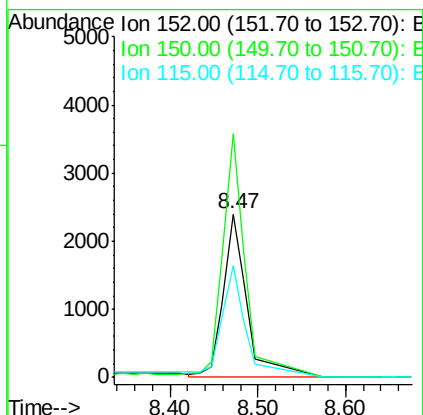
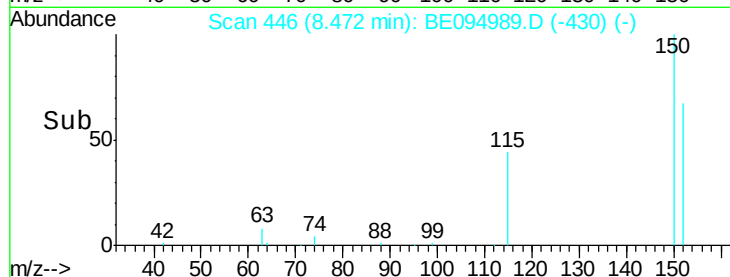
115 68.2 57.0 85.6



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: 0.175 ng

RT: 5.95 min Scan# 246

Delta R.T. 0.00 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

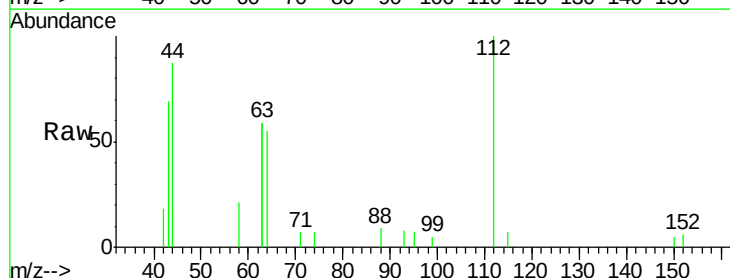
Tgt Ion:112 Resp: 1861

Ion Ratio Lower Upper

112 100

64 72.8 60.1 90.1

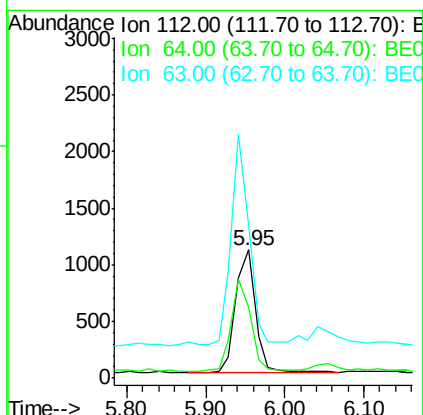
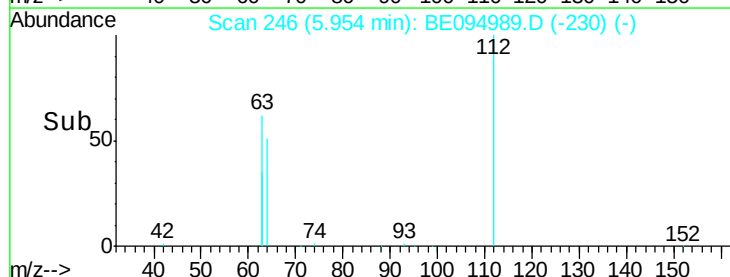
63 155.6 116.8 175.2

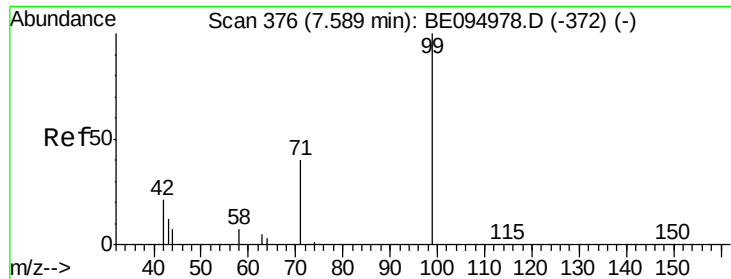


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.110 ng

RT: 7.59 min Scan# 376

Delta R.T. 0.00 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

Instrument :

BNA_E

ClientSampleId :

KY038PS033-171211

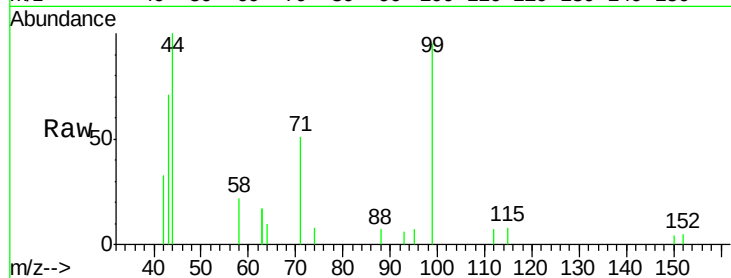
Tgt Ion: 99 Resp: 1738

Ion Ratio Lower Upper

99 100

42 27.3 20.2 30.2

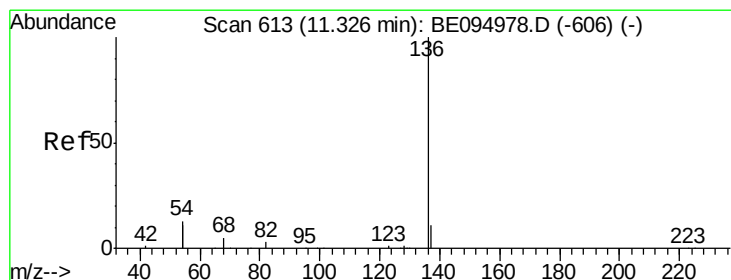
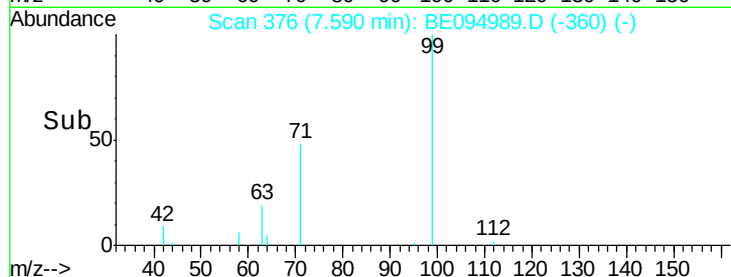
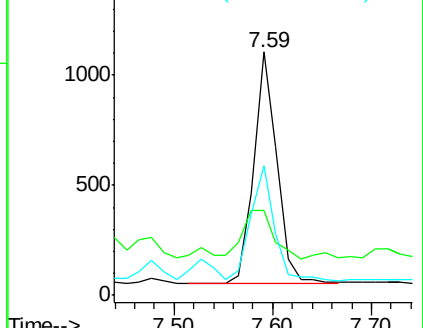
71 50.5 28.4 42.6#



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: 11.33 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

Tgt Ion: 136 Resp: 15024

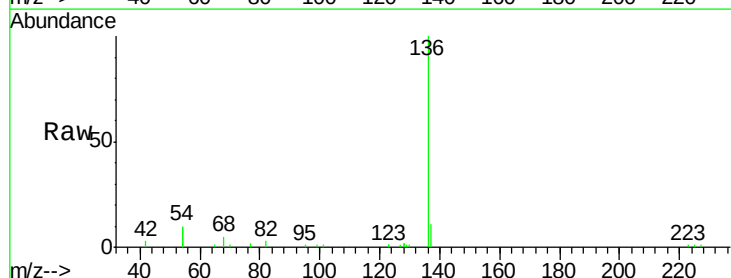
Ion Ratio Lower Upper

136 100

137 11.2 9.5 14.3

54 20.9 29.1 43.7#

68 4.9 6.2 9.2#

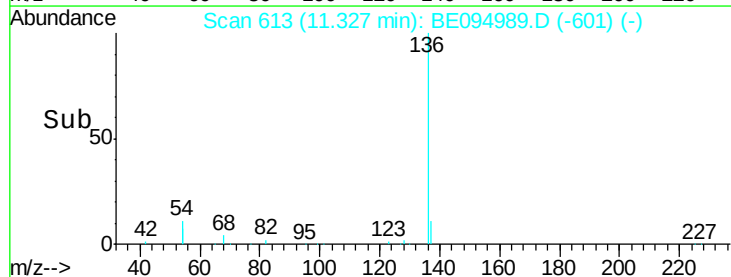
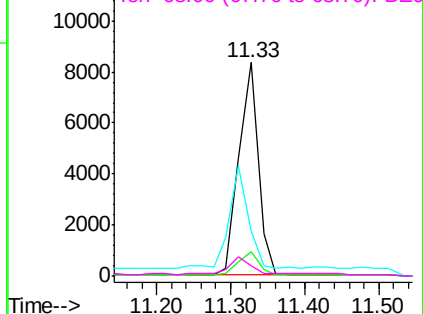


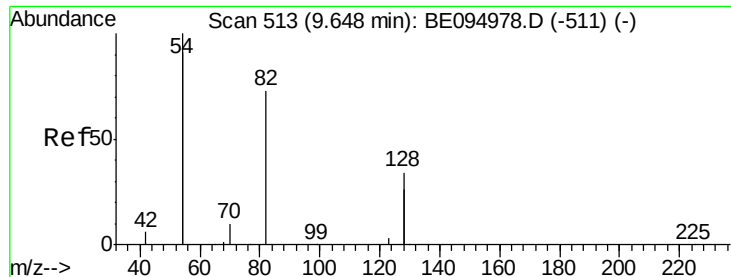
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.494 ng

RT: 9.65 min Scan# 513

Delta R.T. 0.00 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

Instrument :

BNA_E

ClientSampleId :

KY038PS033-171211

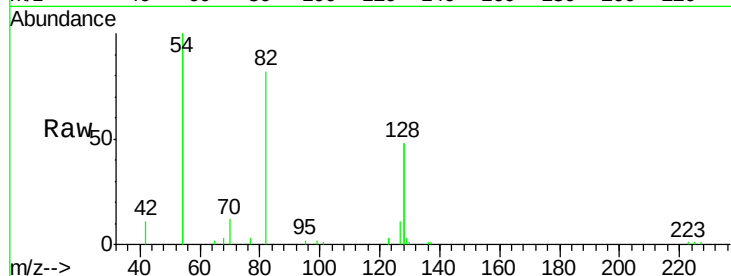
Tgt Ion: 82 Resp: 6091

Ion Ratio Lower Upper

82 100

128 117.0 150.0 225.0#

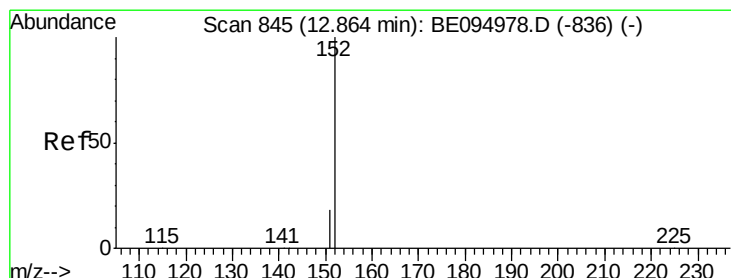
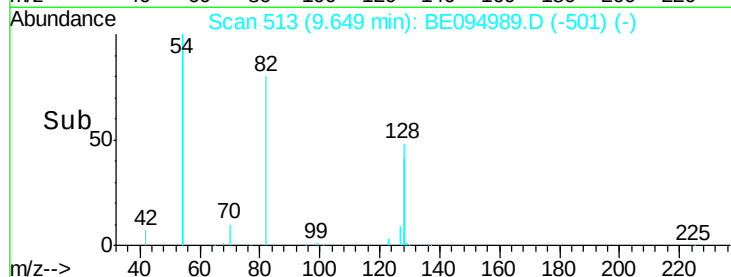
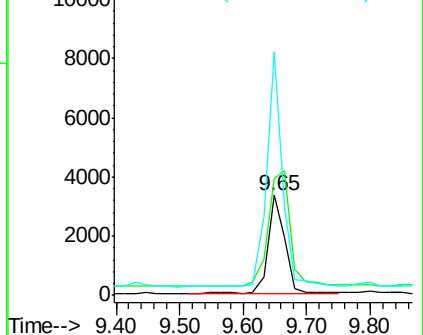
54 243.8 154.2 231.4#



Abundance Ion 82.00 (81.70 to 82.70): BE094978.D (-511) (-)

Ion 128.00 (127.70 to 128.70): BE094978.D (-511) (-)

Ion 54.00 (53.70 to 54.70): BE094978.D (-511) (-)



#11

2-Methylnaphthalene-d10

Concen: 0.405 ng

RT: 12.86 min Scan# 844

Delta R.T. -0.01 min

Lab File: BE094989.D

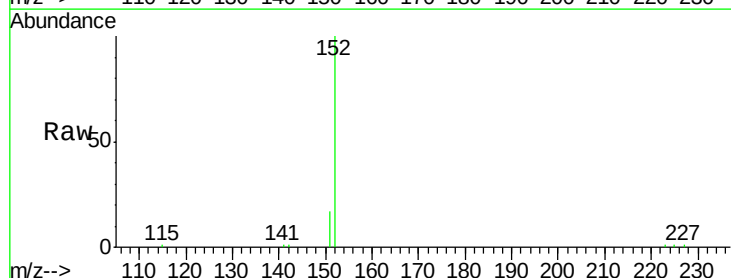
Acq: 14 Dec 2017 22:33

Tgt Ion: 152 Resp: 9973

Ion Ratio Lower Upper

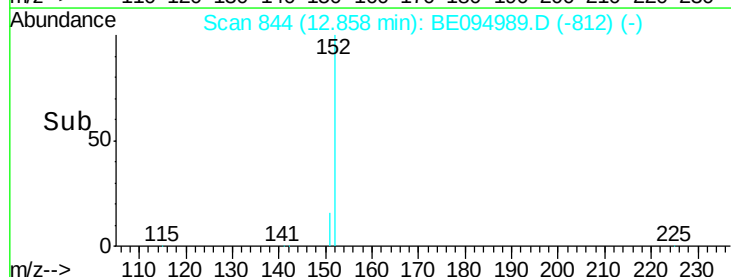
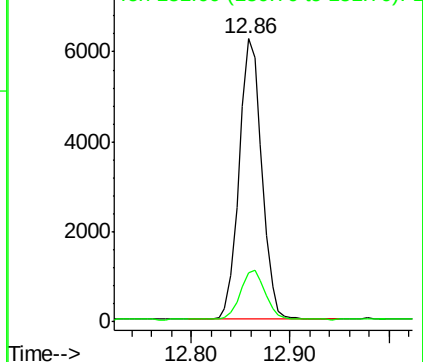
152 100

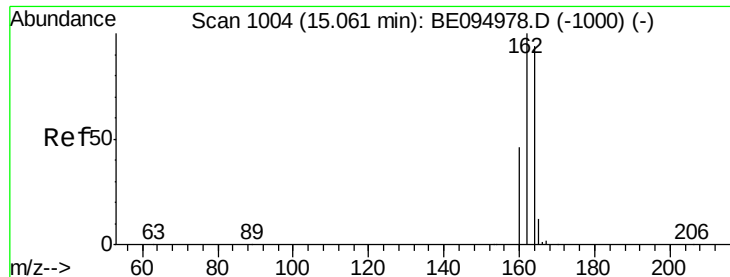
151 19.0 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): BE094978.D (-836) (-)

Ion 151.00 (150.70 to 151.70): BE094978.D (-836) (-)





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 15.06 min Scan# 1004

Delta R.T. -0.00 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

Instrument :

BNA_E

ClientSampleId :

KY038PS033-171211

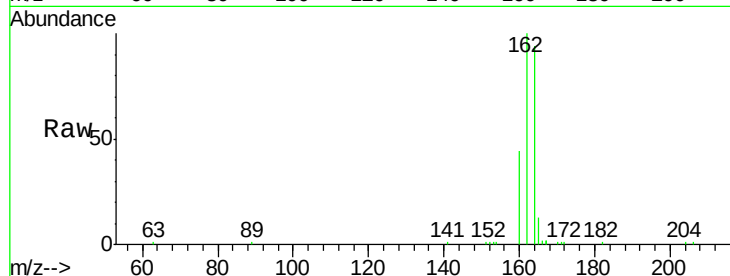
Tgt Ion:164 Resp: 8439

Ion Ratio Lower Upper

164 100

162 106.7 83.1 124.7

160 46.7 37.1 55.7

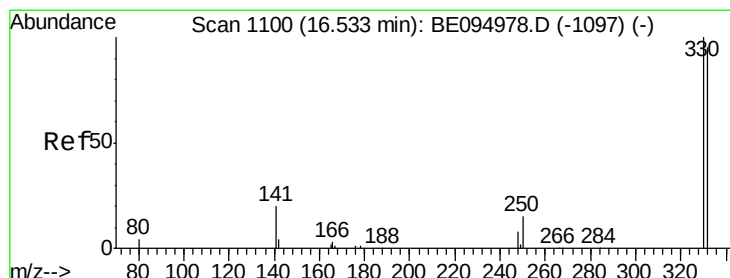
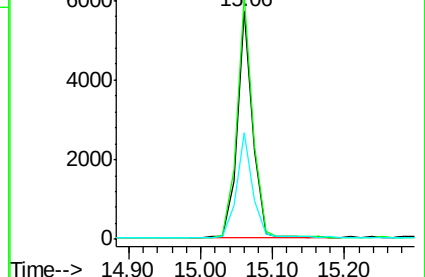
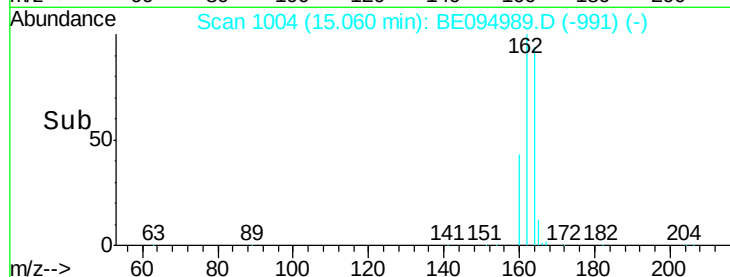


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

15.06



#14

2,4,6-Tribromophenol

Concen: 0.509 ng

RT: 16.53 min Scan# 1100

Delta R.T. 0.00 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

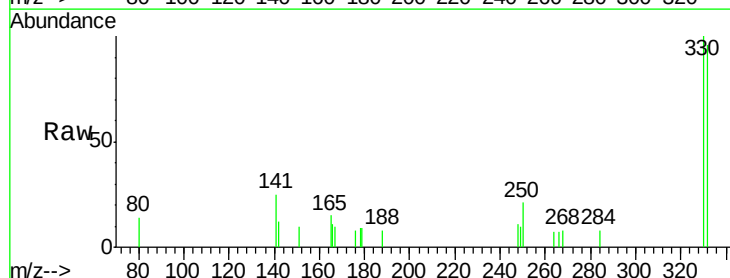
Tgt Ion:330 Resp: 998

Ion Ratio Lower Upper

330 100

332 94.3 152.7 229.1#

141 46.0 33.7 50.5

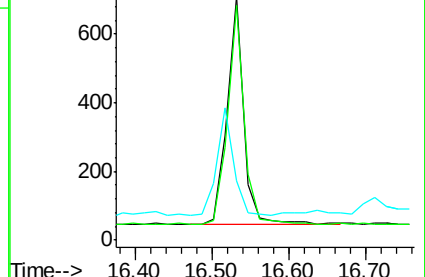
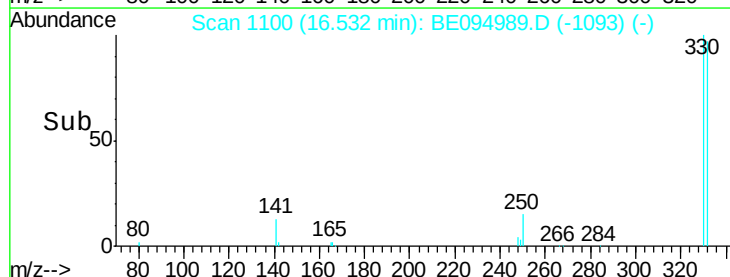


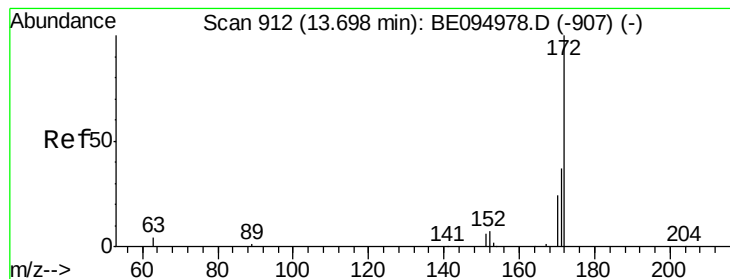
Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

16.53





#15

2-Fluorobiphenyl

Concen: 0.440 ng

RT: 13.70 min Scan# 912

Delta R.T. -0.00 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

Instrument :

BNA_E

ClientSampleId :

KY038PS033-171211

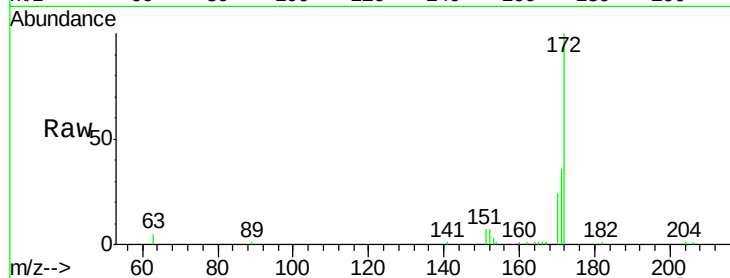
Tgt Ion:172 Resp: 16462

Ion Ratio Lower Upper

172 100

171 35.8 29.9 44.9

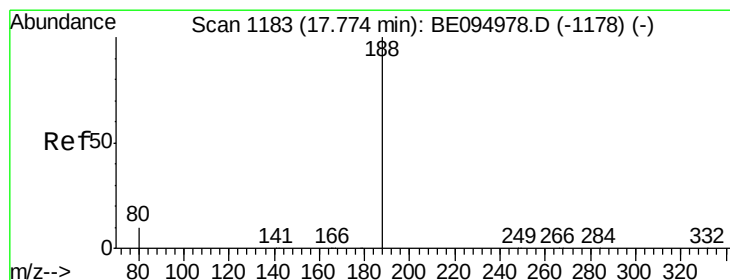
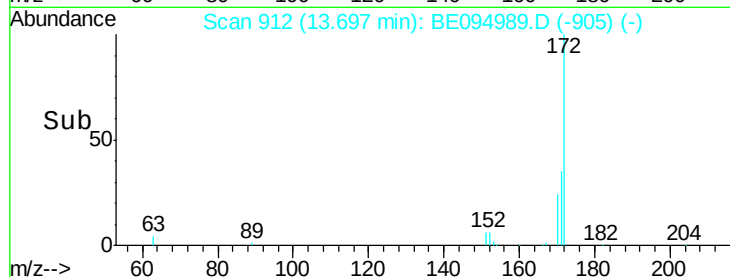
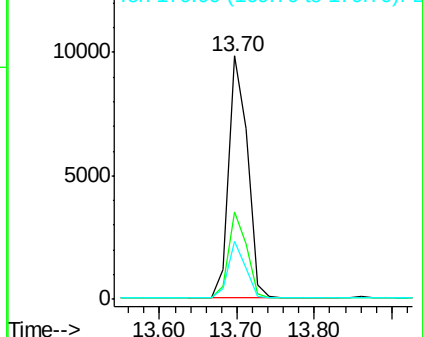
170 24.0 21.8 32.8



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



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.77 min Scan# 1183

Delta R.T. -0.00 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

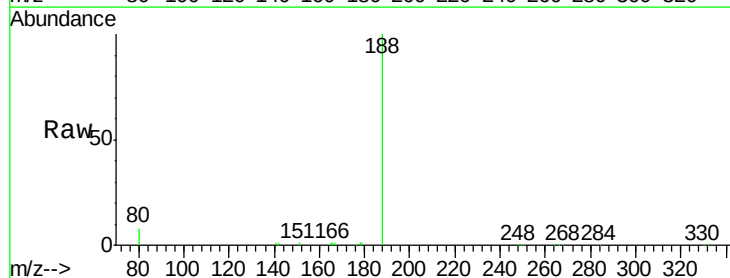
Tgt Ion:188 Resp: 19635

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

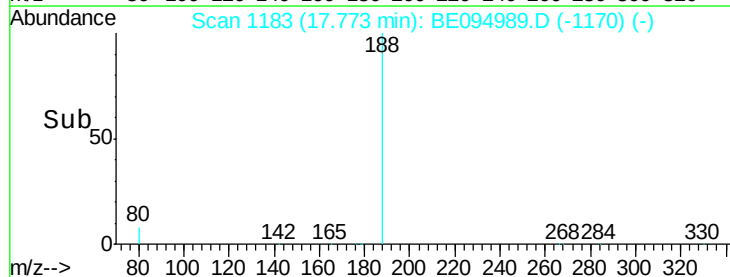
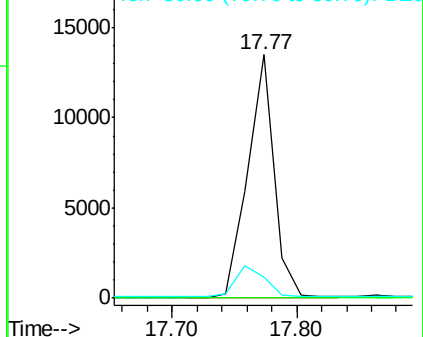
80 8.4 3.6 5.4#

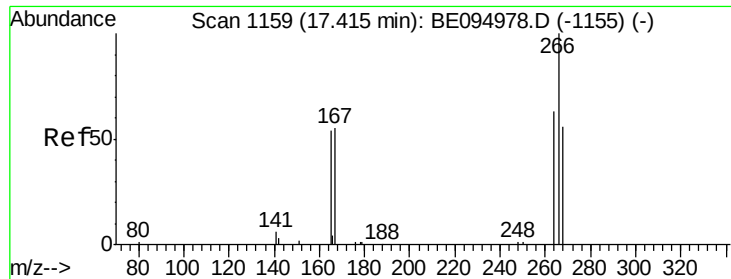


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

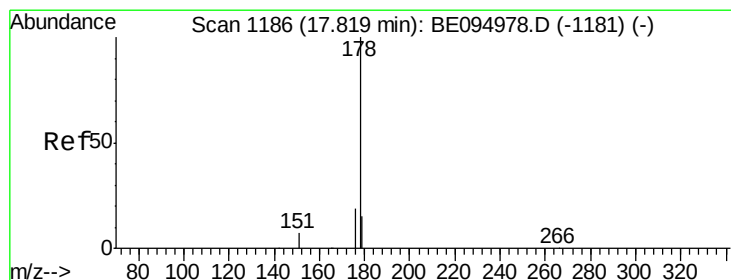
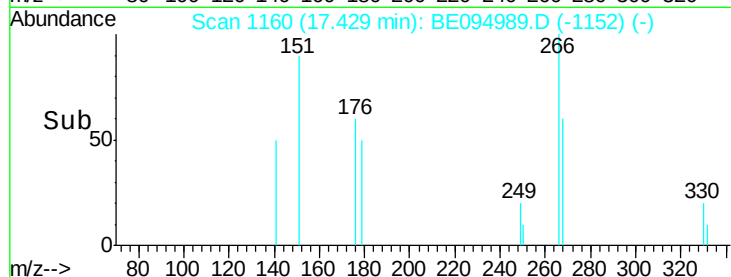
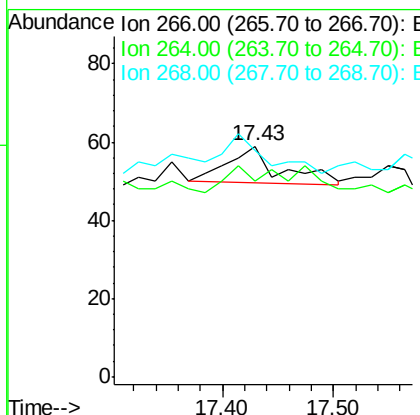
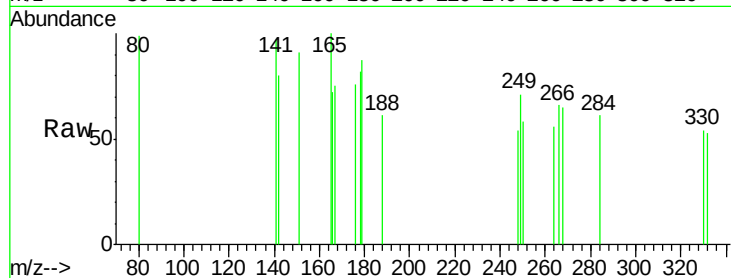




#22
 Pentachlorophenol
 Concen: 0.090 ng
 RT: 17.43 min Scan# 1160
 Delta R.T. 0.01 min
 Lab File: BE094989.D
 Acq: 14 Dec 2017 22:33

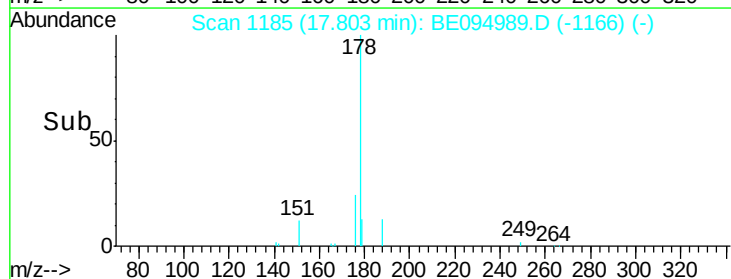
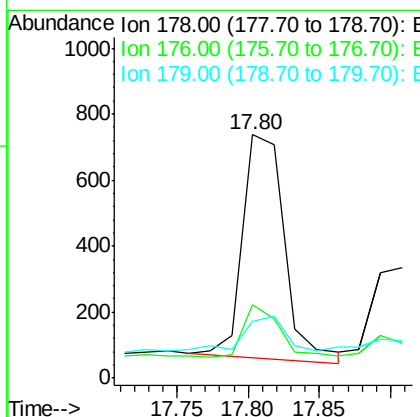
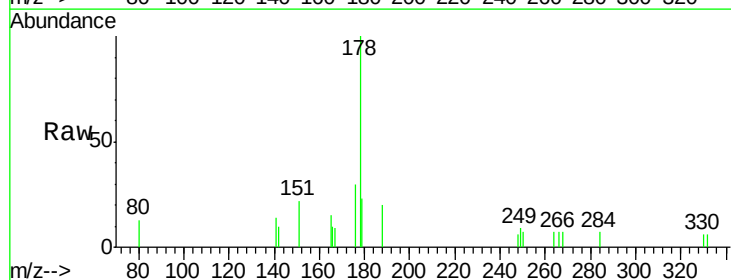
Instrument :
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 KY038PS033-171211

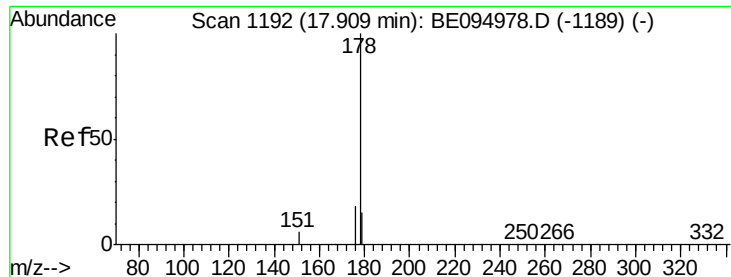
Tgt Ion:266 Resp: 31
 Ion Ratio Lower Upper
 266 100
 264 84.7 72.5 108.7
 268 98.3 73.8 110.6



#23
 Phenanthrene
 Concen: 0.023 ng
 RT: 17.80 min Scan# 1185
 Delta R.T. -0.02 min
 Lab File: BE094989.D
 Acq: 14 Dec 2017 22:33

Tgt Ion:178 Resp: 1399
 Ion Ratio Lower Upper
 178 100
 176 24.1 15.1 22.7#
 179 14.2 11.8 17.6





#24

Anthracene

Concen: 0.020 ng

RT: 17.91 min Scan# 1192

Delta R.T. -0.00 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

Instrument :

BNA_E

ClientSampleId :

KY038PS033-171211

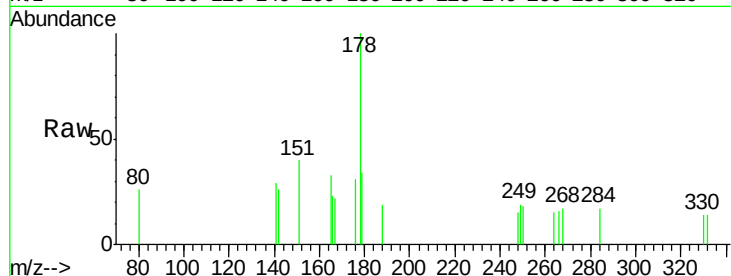
Tgt Ion:178 Resp: 1273

Ion Ratio Lower Upper

178 100

176 55.9 12.8 19.2#

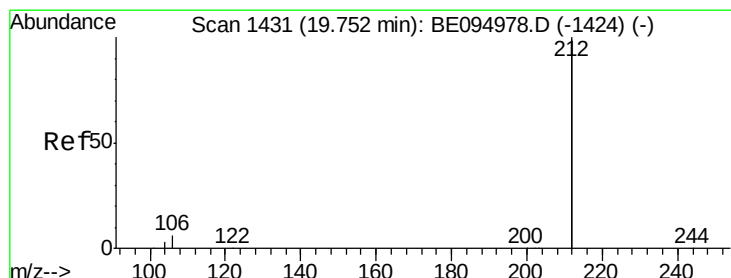
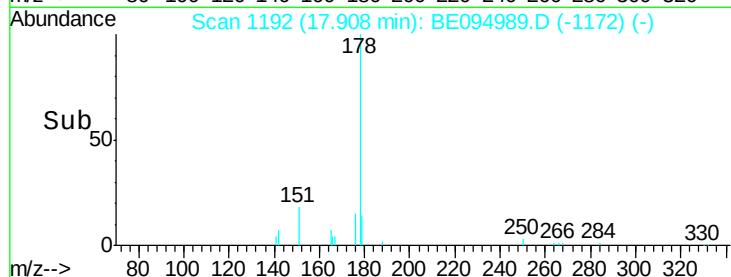
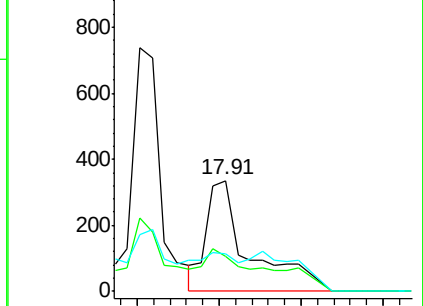
179 4.2 13.0 19.6#



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: 0.432 ng

RT: 19.75 min Scan# 1430

Delta R.T. -0.01 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

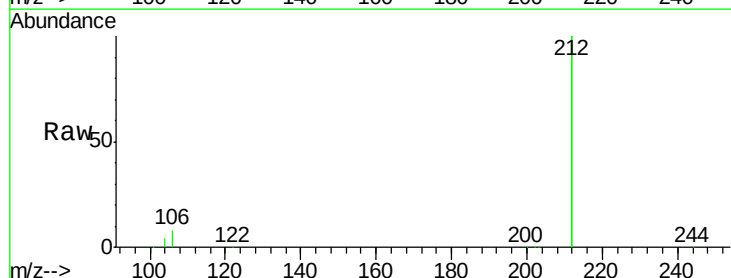
Tgt Ion:212 Resp: 110140

Ion Ratio Lower Upper

212 100

106 3.4 2.8 4.2

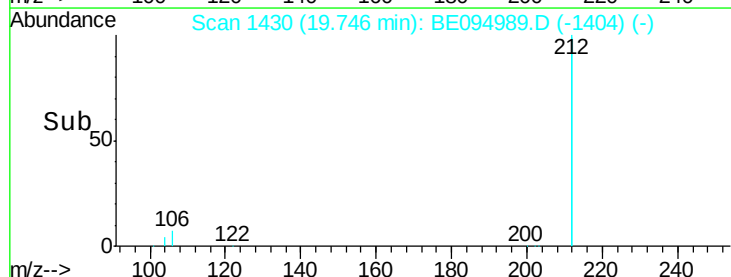
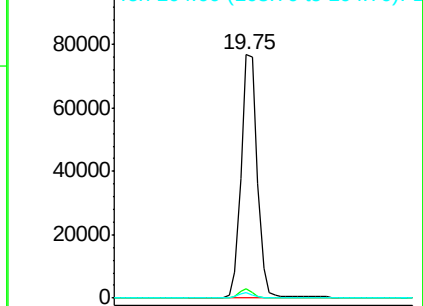
104 1.9 1.6 2.4

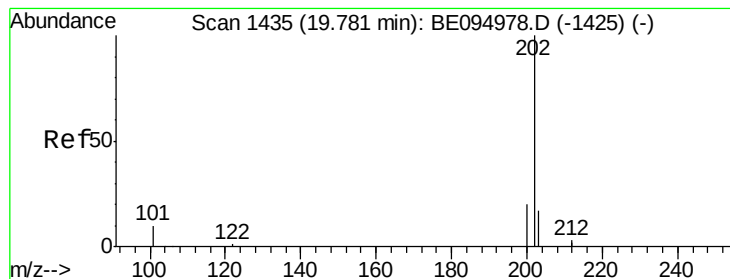


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#26

Fluoranthene

Concen: 0.022 ng

RT: 19.78 min Scan# 1434

Delta R.T. -0.01 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

Instrument :

BNA_E

ClientSampleId :

KY038PS033-171211

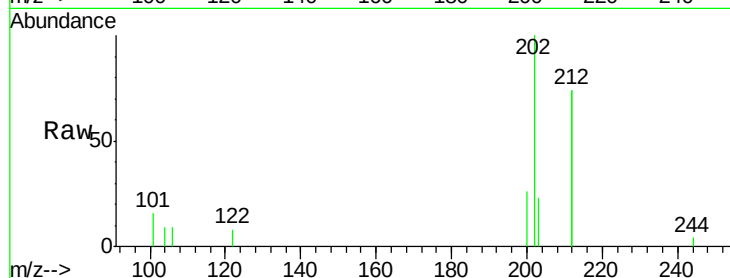
Tgt Ion:202 Resp: 1636

Ion Ratio Lower Upper

202 100

101 13.3 9.8 14.8

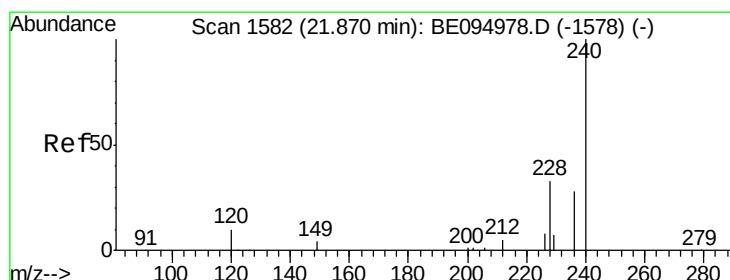
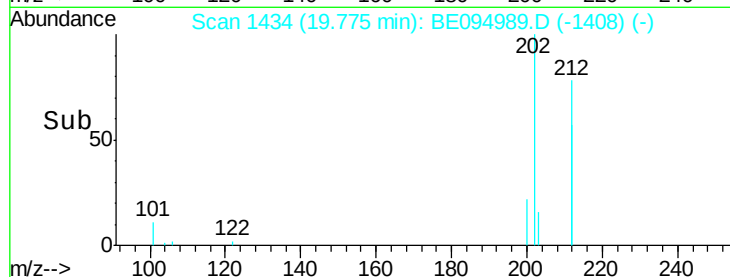
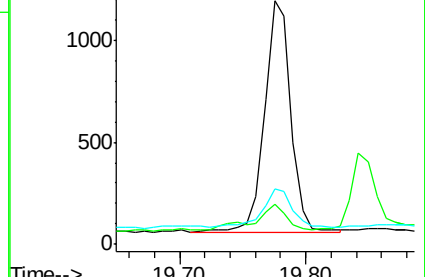
203 19.0 13.7 20.5



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: 21.87 min Scan# 1582

Delta R.T. 0.00 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

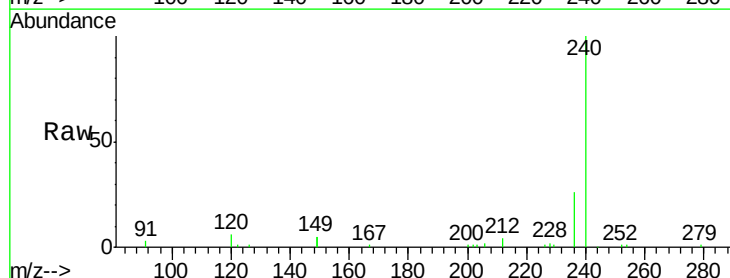
Tgt Ion:240 Resp: 22005

Ion Ratio Lower Upper

240 100

120 5.9 5.5 8.3

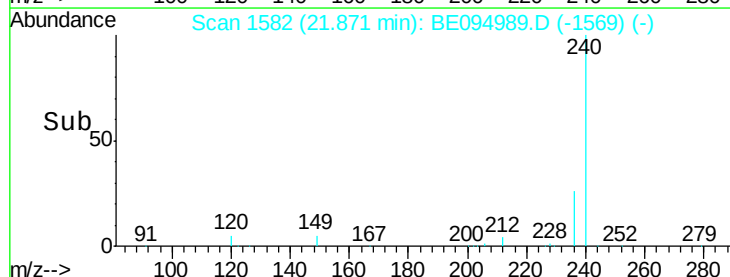
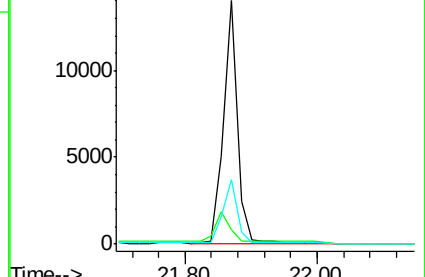
236 26.3 20.7 31.1

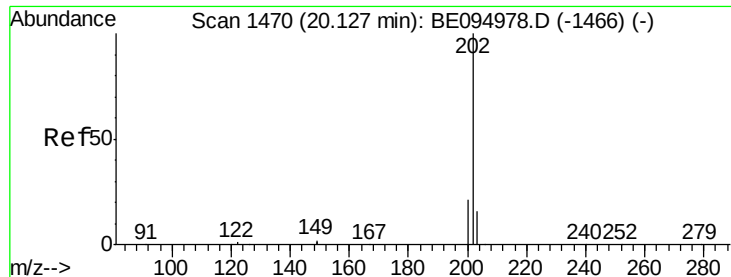


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#28

Pyrene

Concen: 0.021 ng

RT: 20.13 min Scan# 1470

Delta R.T. 0.00 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

Instrument :

BNA_E

ClientSampleId :

KY038PS033-171211

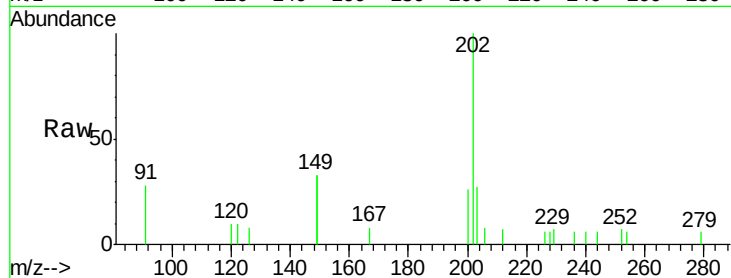
Tgt Ion:202 Resp: 1586

Ion Ratio Lower Upper

202 100

200 19.0 16.6 25.0

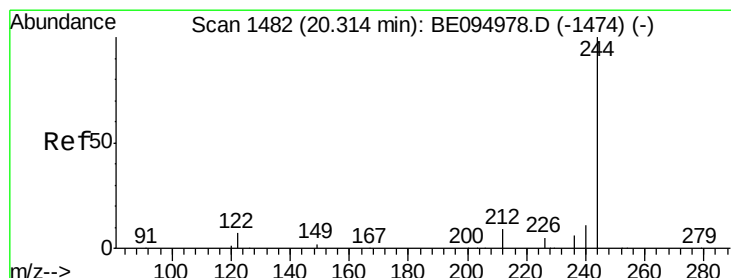
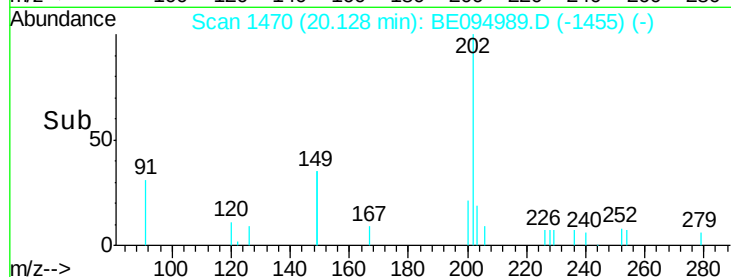
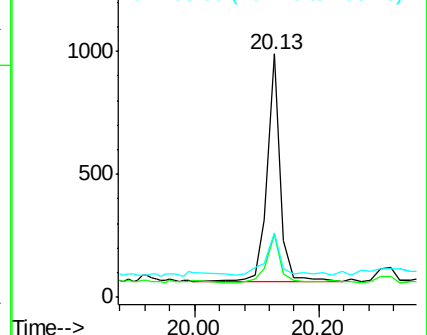
203 19.1 13.8 20.8



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: 0.559 ng

RT: 20.31 min Scan# 1482

Delta R.T. 0.00 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

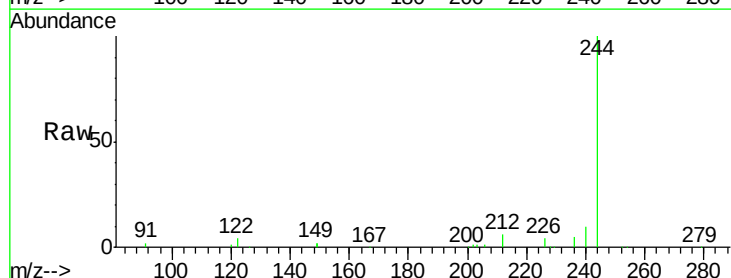
Tgt Ion:244 Resp: 23138

Ion Ratio Lower Upper

244 100

212 6.5 25.4 38.0#

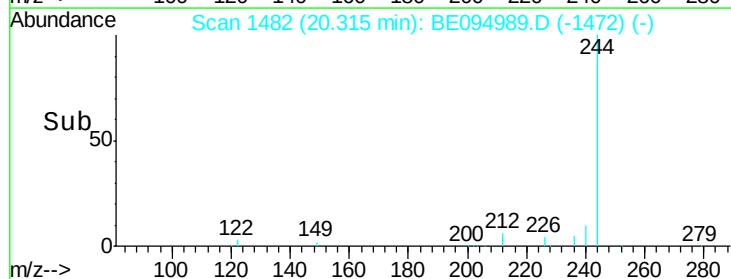
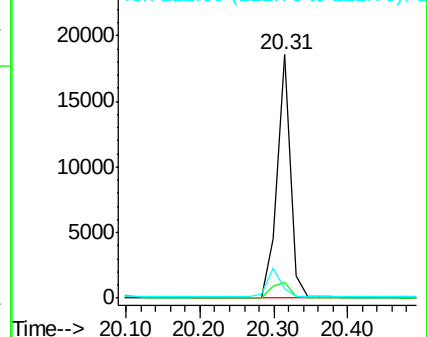
122 3.7 8.1 12.1#

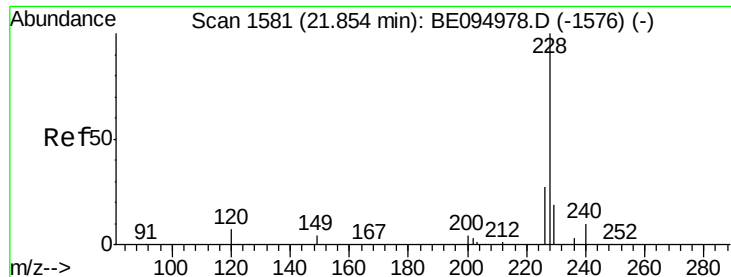


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 0.046 ng

RT: 21.86 min Scan# 1581

Delta R.T. 0.00 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

Instrument :

BNA_E

ClientSampleId :

KY038PS033-171211

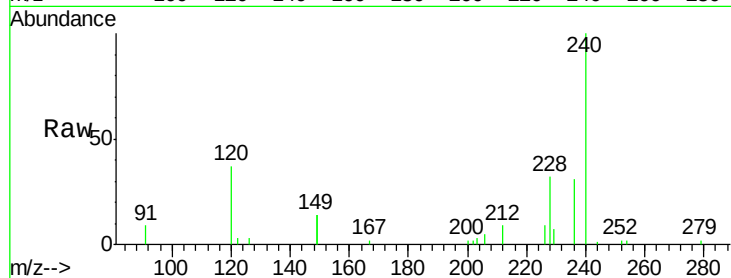
Tgt Ion:228 Resp: 2982

Ion Ratio Lower Upper

228 100

226 28.2 40.0 60.0#

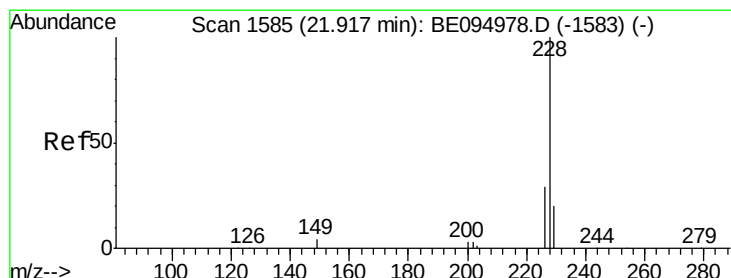
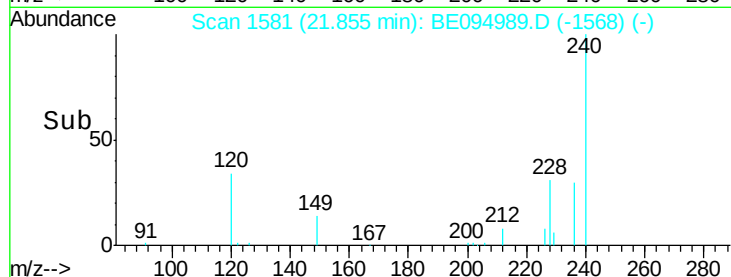
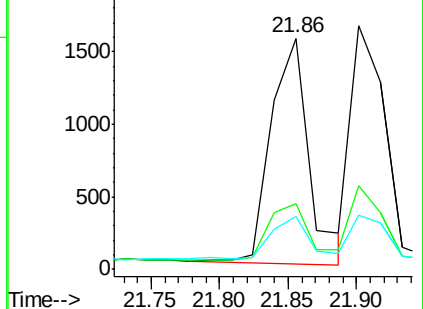
229 23.0 40.0 60.0#



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: 0.047 ng

RT: 21.90 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

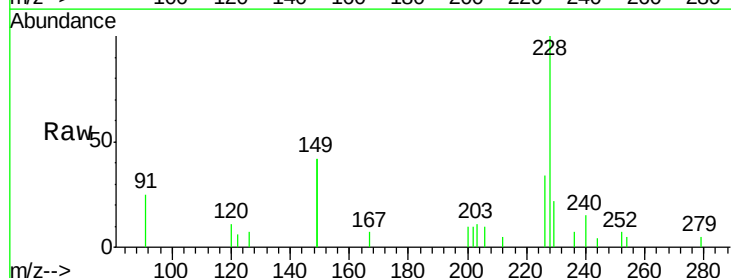
Tgt Ion:228 Resp: 3404

Ion Ratio Lower Upper

228 100

226 34.4 40.0 60.0#

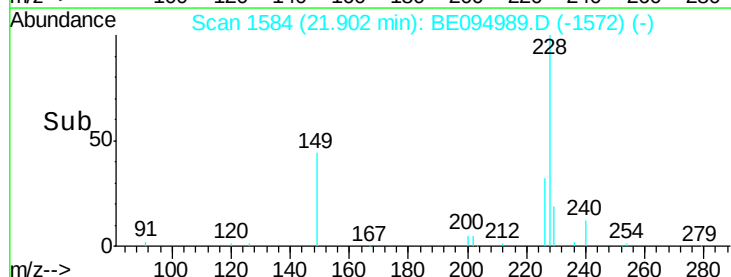
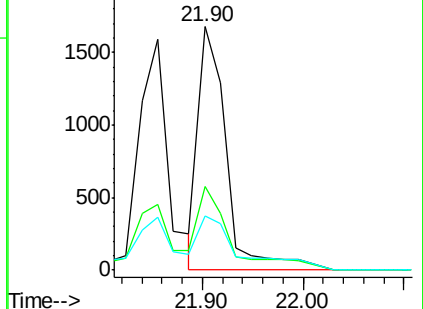
229 22.3 40.0 60.0#

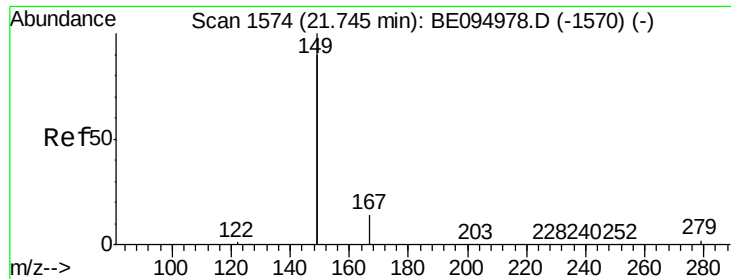


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.045 ng

RT: 21.73 min Scan# 1573

Delta R.T. -0.01 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

Instrument :

BNA_E

ClientSampleId :

KY038PS033-171211

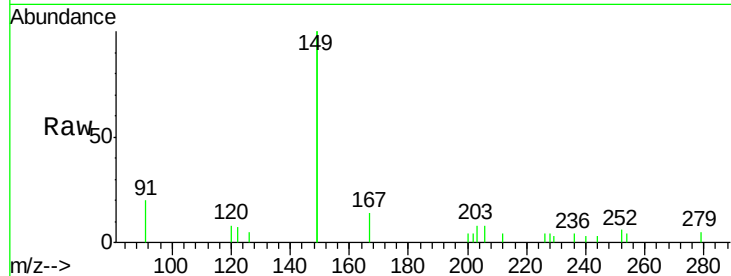
Tgt Ion:149 Resp: 3702

Ion Ratio Lower Upper

149 100

167 6.6 5.4 8.0

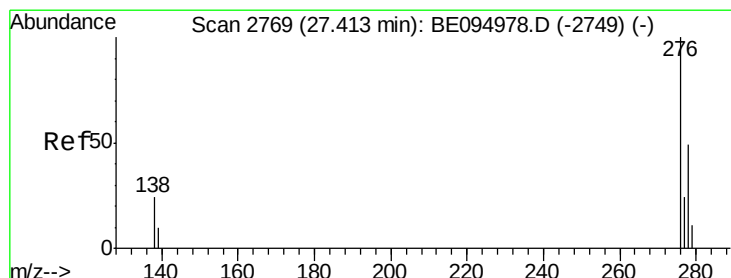
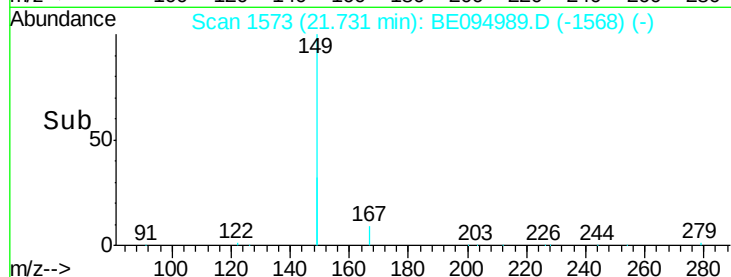
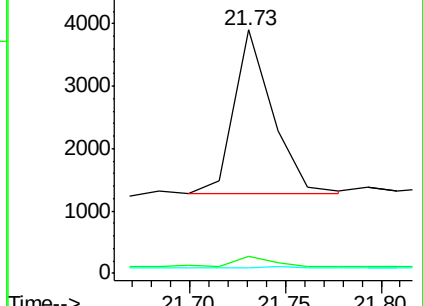
279 1.4 0.7 1.1#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.046 ng

RT: 27.41 min Scan# 2768

Delta R.T. -0.01 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

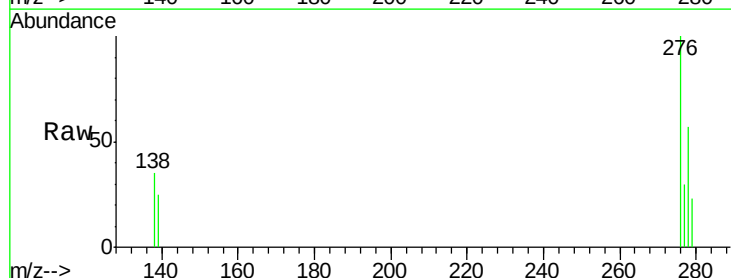
Tgt Ion:276 Resp: 2708

Ion Ratio Lower Upper

276 100

138 31.1 22.5 33.7

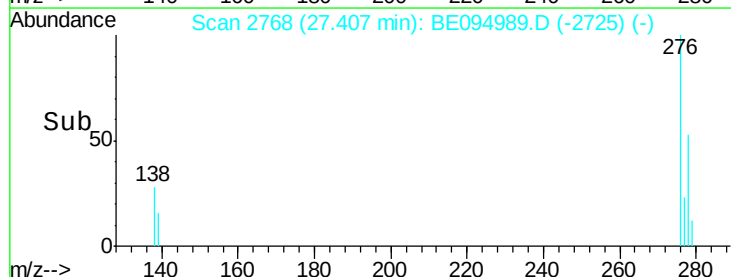
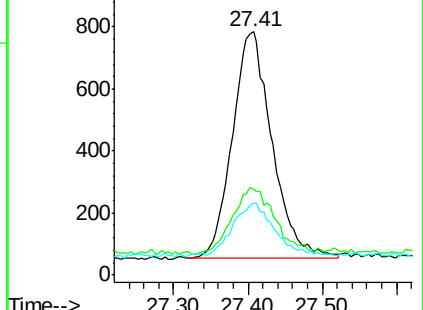
277 25.1 19.9 29.9

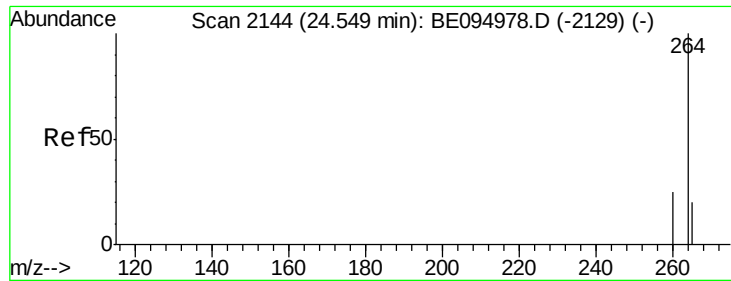


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

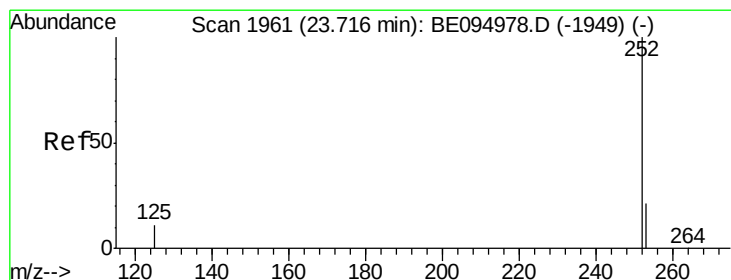
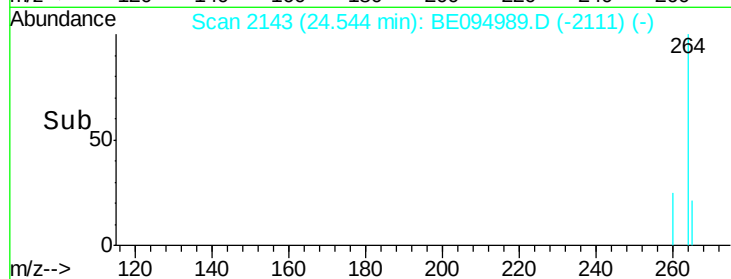
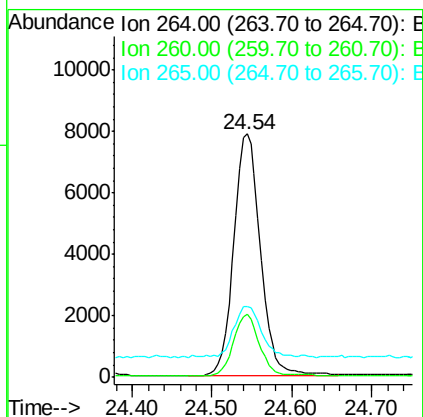
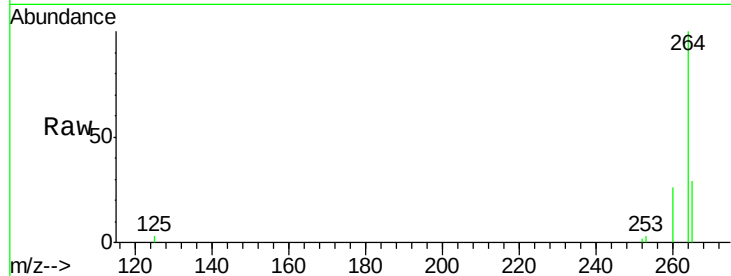




#34
Perylene-d12
 Concen: 0.400 ng
 RT: 24.54 min Scan# 2143
 Delta R.T. -0.01 min
 Lab File: BE094989.D
 Acq: 14 Dec 2017 22:33

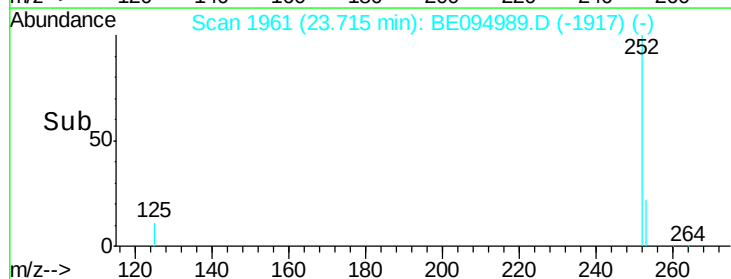
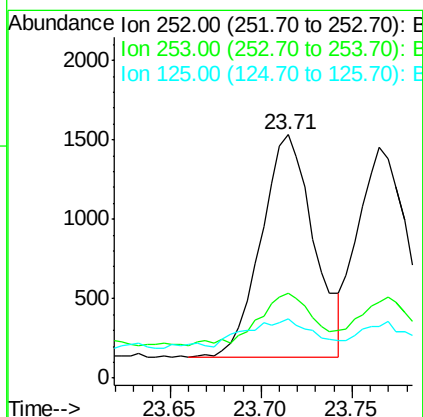
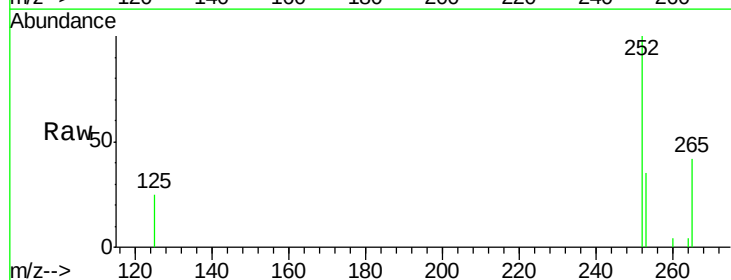
Instrument :
 BNA_E
 ClientSampleId :
 KY038PS033-171211

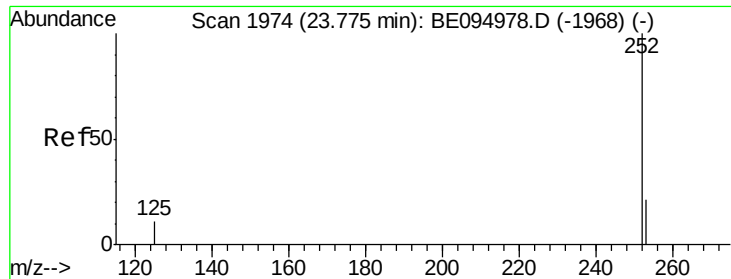
Tgt Ion: 264 Resp: 18220
 Ion Ratio Lower Upper
 264 100
 260 25.9 20.5 30.7
 265 29.2 22.8 34.2



#35
Benzo(b)fluoranthene
 Concen: 0.042 ng
 RT: 23.71 min Scan# 1961
 Delta R.T. -0.00 min
 Lab File: BE094989.D
 Acq: 14 Dec 2017 22:33

Tgt Ion: 252 Resp: 2838
 Ion Ratio Lower Upper
 252 100
 253 35.0 20.0 30.0#
 125 24.5 16.0 24.0#





#36

Benzo(k)fluoranthene

Concen: 0.039 ng

RT: 23.76 min Scan# 1972

Delta R.T. -0.01 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

Instrument :

BNA_E

ClientSampleId :

KY038PS033-171211

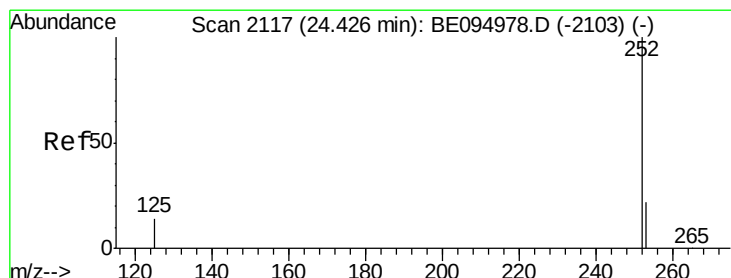
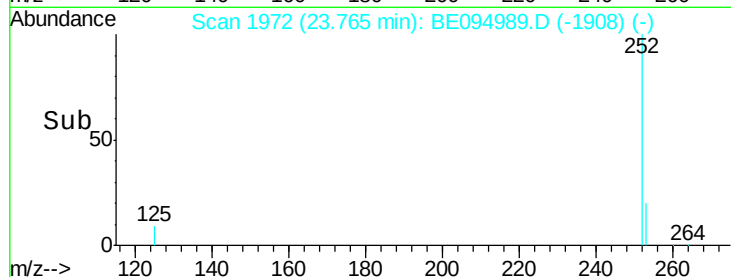
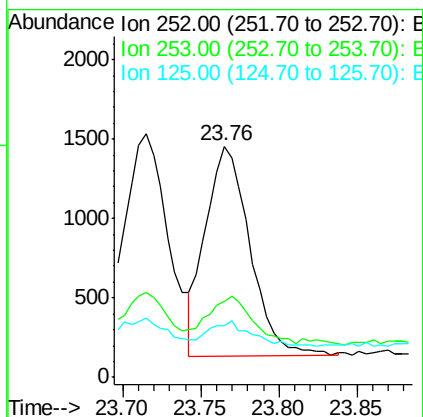
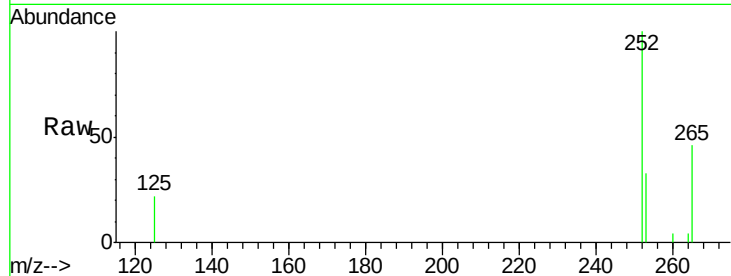
Tgt Ion: 252 Resp: 2615

Ion Ratio Lower Upper

252 100

253 32.9 16.0 24.0#

125 22.1 8.0 12.0#



#37

Benzo(a)pyrene

Concen: 0.030 ng

RT: 24.43 min Scan# 2117

Delta R.T. -0.00 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

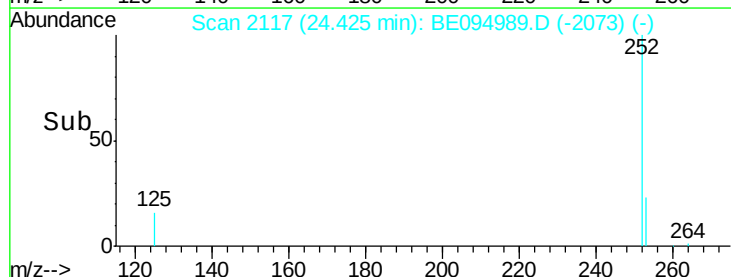
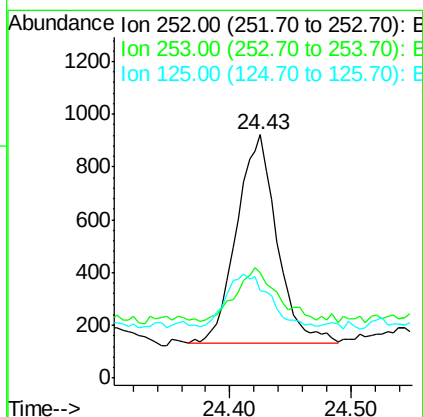
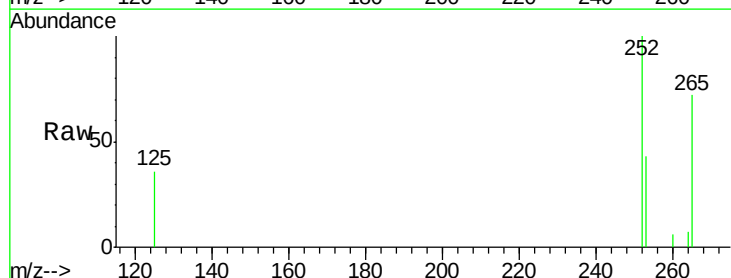
Tgt Ion: 252 Resp: 1805

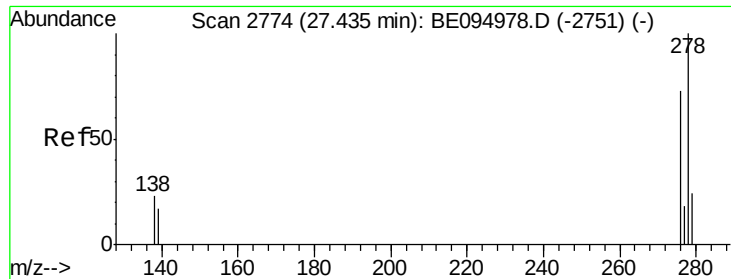
Ion Ratio Lower Upper

252 100

253 43.0 16.0 24.0#

125 35.9 12.0 18.0#





#38

Dibenzo(a,h)anthracene

Concen: 0.039 ng

RT: 27.43 min Scan# 2772

Delta R.T. -0.01 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

Instrument :

BNA_E

ClientSampleId :

KY038PS033-171211

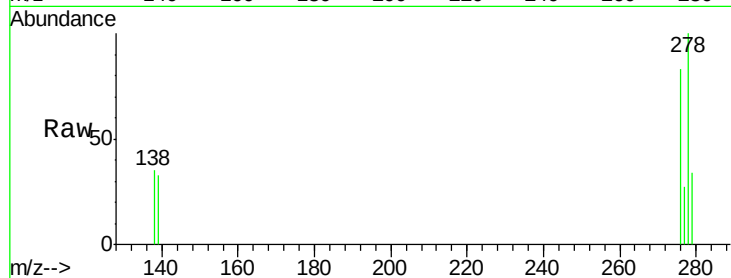
Tgt Ion: 278 Resp: 2159

Ion Ratio Lower Upper

278 100

139 33.2 16.0 24.0#

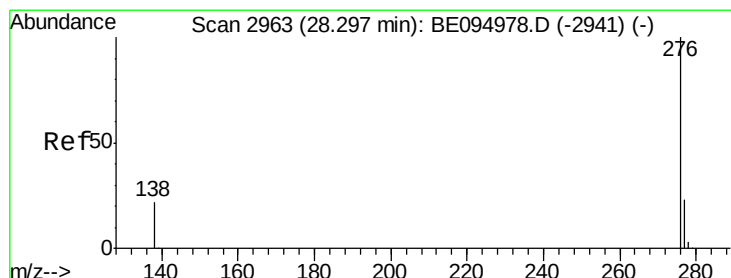
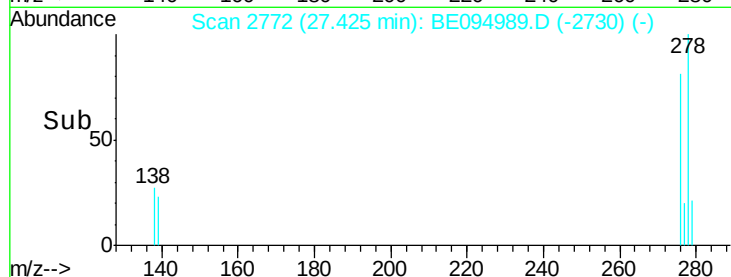
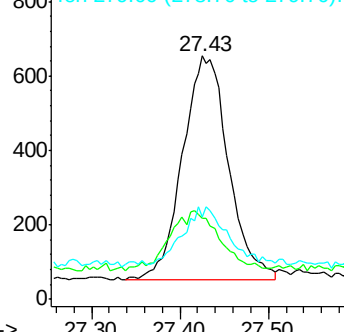
279 33.9 20.0 30.0#



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: 0.042 ng

RT: 28.29 min Scan# 2962

Delta R.T. -0.01 min

Lab File: BE094989.D

Acq: 14 Dec 2017 22:33

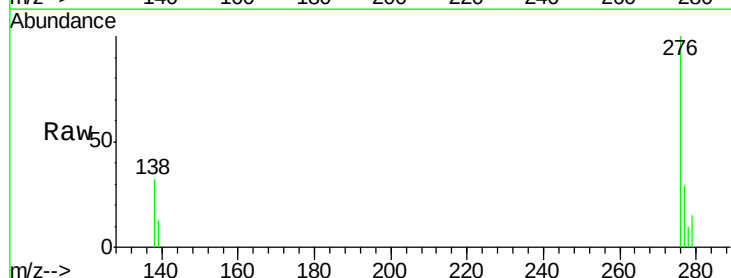
Tgt Ion: 276 Resp: 2310

Ion Ratio Lower Upper

276 100

277 28.7 16.0 24.0#

138 31.6 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

