

Data Path : Z:\HPCHEM1\BNA E\DATA\BE121517\
 Data File : BE094998.D
 Acq On : 15 Dec 2017 12:52
 Operator : SJ/JU
 Sample : PB104984BL
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Dec 15 16:31:54 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	7526	0.40	ng	0.00
7) Naphthalene-d8	11.33	136	15508	0.40	ng	0.00
13) Acenaphthene-d10	15.06	164	7882	0.40	ng	0.00
19) Phenanthrene-d10	17.77	188	18325	0.40	ng	0.00
27) Chrysene-d12	21.89	240	19584	0.40	ng	0.02
34) Perylene-d12	24.56	264	15821	0.40	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.95	112	3475	0.30	ng	0.00
5) Phenol-d6	7.59	99	4808	0.28	ng	0.00
8) Nitrobenzene-d5	9.65	82	4405	0.35	ng	0.00
11) 2-Methylnaphthalene-d10	12.86	152	7549	0.30	ng	0.00
14) 2,4,6-Tribromophenol	16.53	330	492	0.27	ng	0.00
15) 2-Fluorobiphenyl	13.71	172	11919	0.34	ng	0.01
25) Fluoranthene-d10	19.76	212	74347	0.31	ng	0.00
29) Terphenyl-d14	20.31	244	14145	0.38	ng	0.00

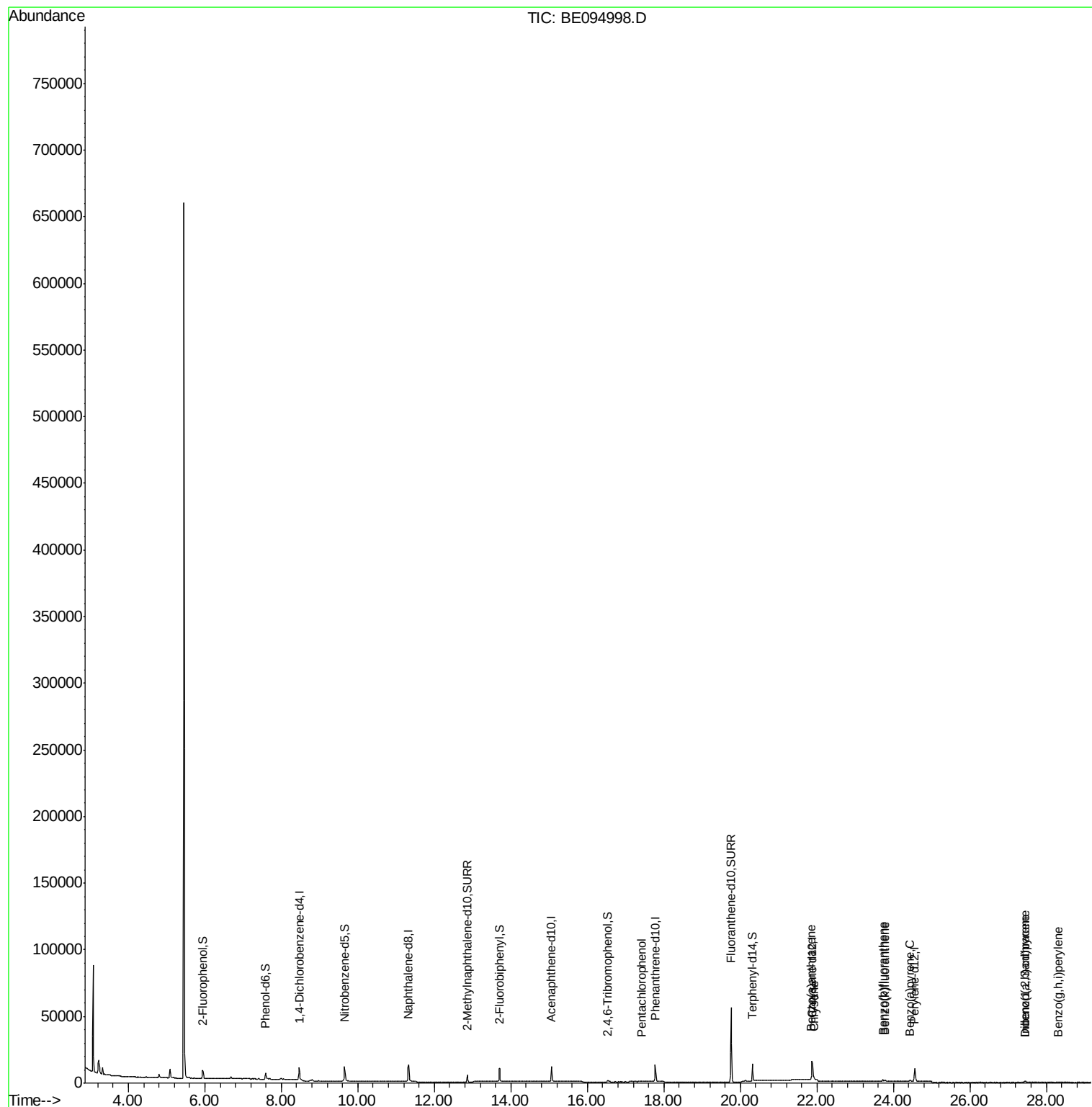
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
22) Pentachlorophenol	17.41	266	13	0.084	ng	97
30) Benzo(a)anthracene	21.86	228	1699	0.030	ng	# 69
31) Chrysene	21.92	228	2422	0.038	ng	# 67
33) Indeno(1,2,3-cd)pyrene	27.43	276	1704	0.032	ng	97
35) Benzo(b)fluoranthene	23.73	252	1770	0.030	ng	# 77
36) Benzo(k)fluoranthene	23.78	252	1583	0.027	ng	# 60
37) Benzo(a)pyrene	24.43	252	1580	0.031	ng	# 45
38) Dibenzo(a,h)anthracene	27.46	278	1355	0.028	ng	# 71
39) Benzo(g,h,i)perylene	28.31	276	1526	0.032	ng	# 81

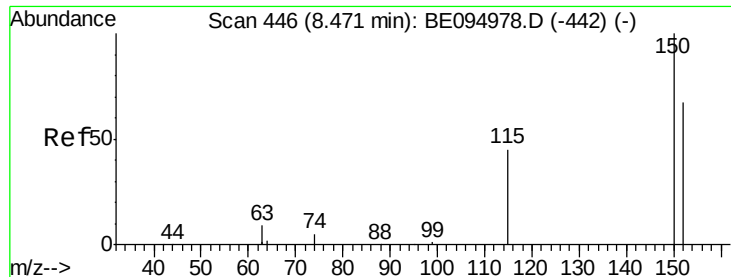
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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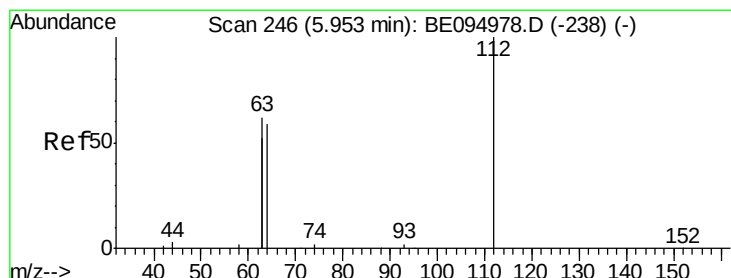
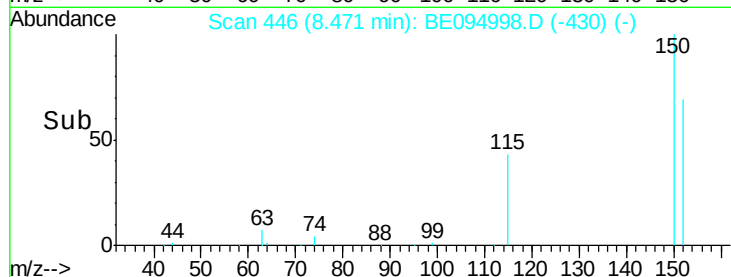
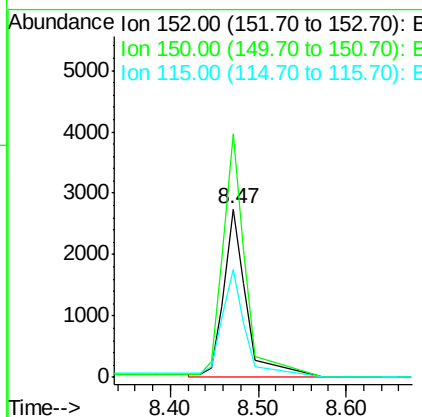
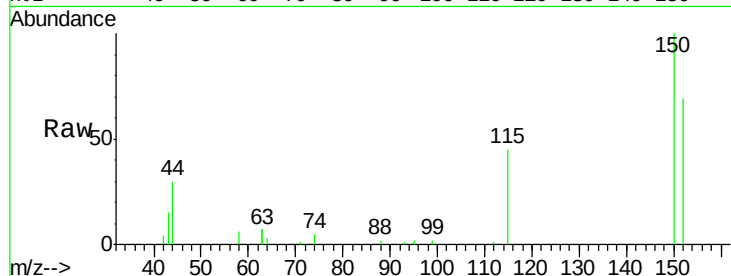




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 8.47 min Scan# 446
 Delta R.T. 0.00 min
 Lab File: BE094998.D
 Acq: 15 Dec 2017 12:52

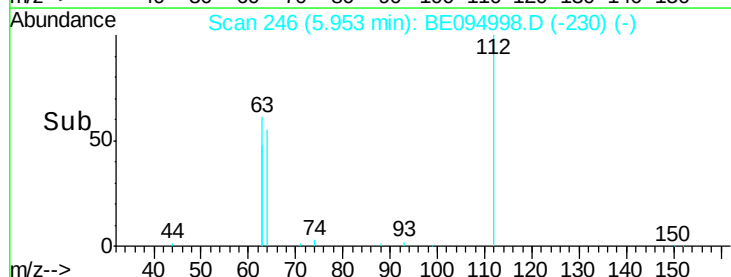
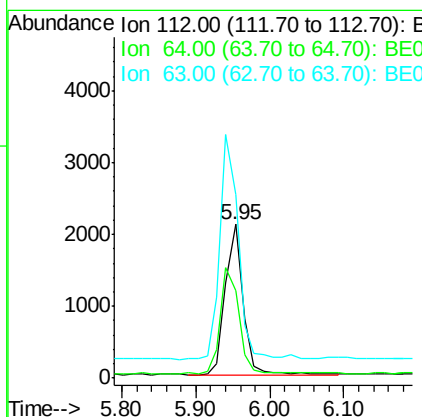
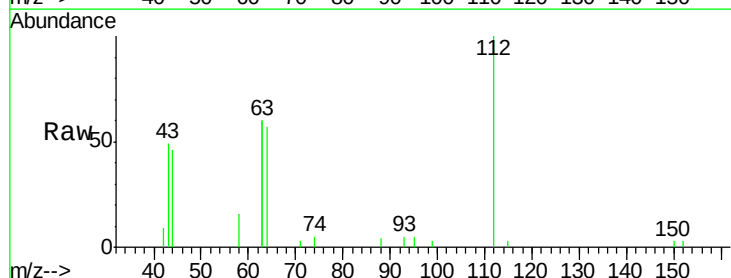
Instrument :
 BNA_E
 ClientSampleId :

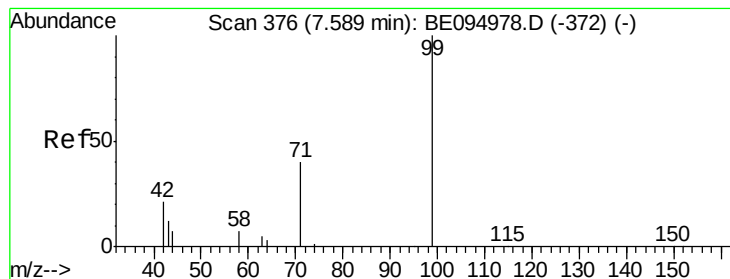
Tot Ion:152 Resp: 7526
 Ion Ratio Lower Upper
 152 100
 150 144.5 117.2 175.8
 115 64.4 57.0 85.6



#4
 2-Fluorophenol
 Concen: 0.297 ng
 RT: 5.95 min Scan# 246
 Delta R.T. 0.00 min
 Lab File: BE094998.D
 Acq: 15 Dec 2017 12:52

Tgt Ion:112 Resp: 3475
 Ion Ratio Lower Upper
 112 100
 64 74.8 60.1 90.1
 63 153.9 116.8 175.2





#5

Phenol-d6

Concen: 0.277 ng

RT: 7.59 min Scan# 376

Delta R.T. 0.00 min

Lab File: BE094998.D

Acq: 15 Dec 2017 12:52

Instrument :

BNA_E

ClientSampleId :

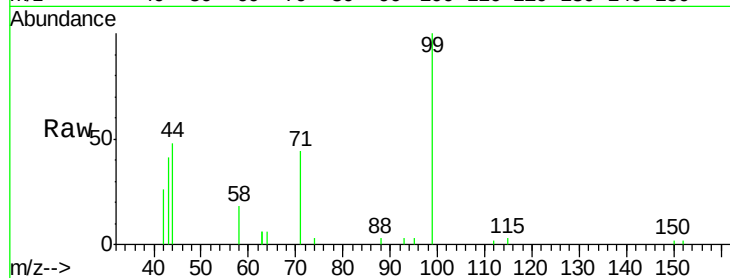
Tot Ion: 99 Resp: 4808

Ion Ratio Lower Upper

99 100

42 22.9 20.2 30.2

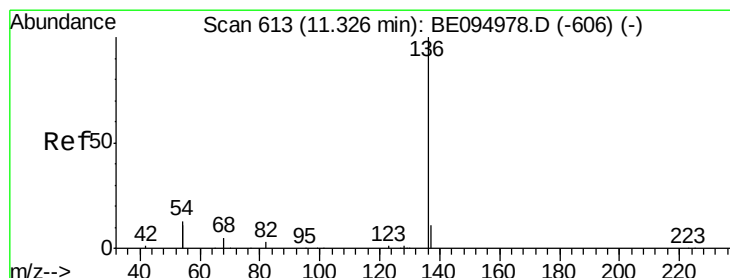
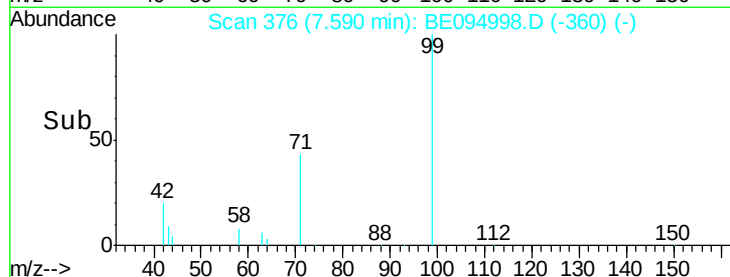
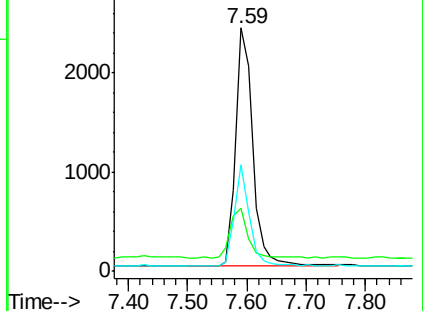
71 37.8 28.4 42.6



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



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.33 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE094998.D

Acq: 15 Dec 2017 12:52

Tgt Ion: 136 Resp: 15508

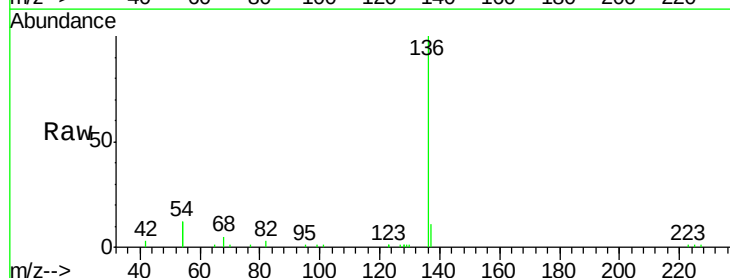
Ion Ratio Lower Upper

136 100

137 11.1 9.5 14.3

54 23.2 29.1 43.7#

68 5.3 6.2 9.2#

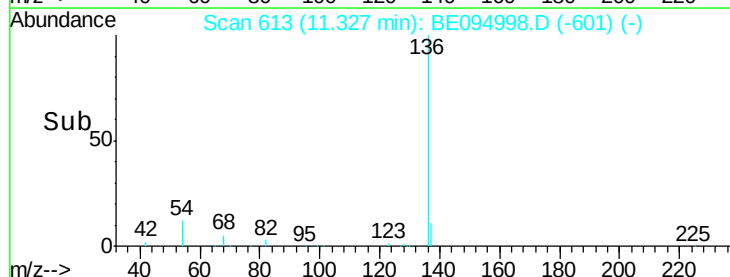
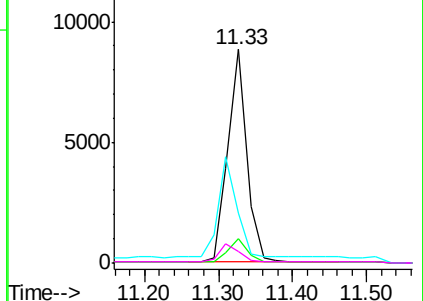


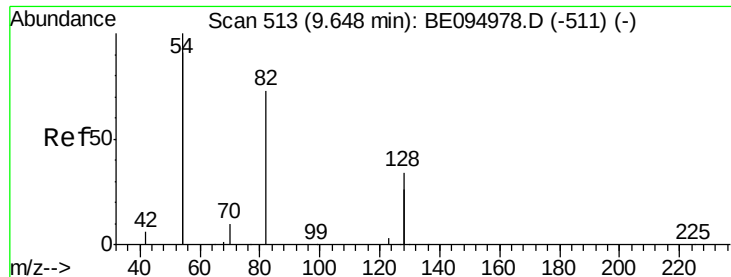
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.346 ng

RT: 9.65 min Scan# 513

Delta R.T. 0.00 min

Lab File: BE094998.D

Acq: 15 Dec 2017 12:52

Instrument :
BNA_E
ClientSampleId :

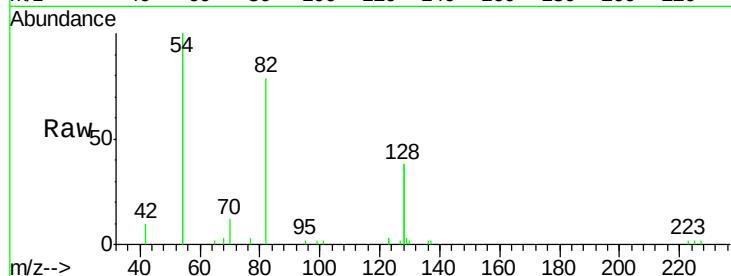
Tot Ion: 82 Resp: 4405

Ion Ratio Lower Upper

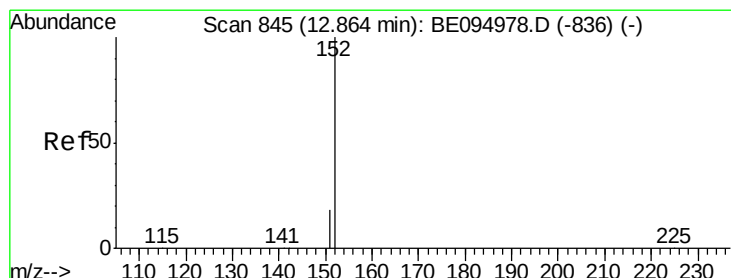
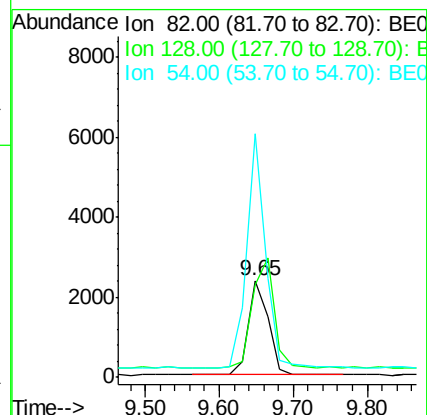
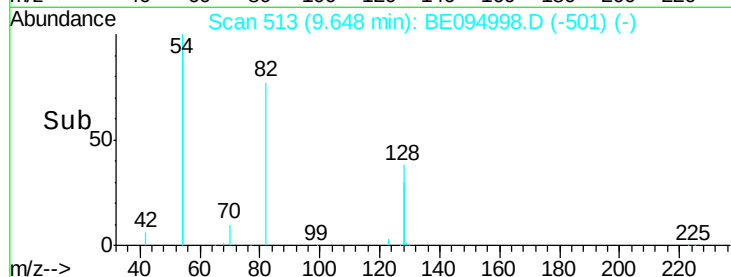
82 100

128 96.2 150.0 225.0#

54 251.7 154.2 231.4#



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



#11

2-Methylnaphthalene-d10

Concen: 0.297 ng

RT: 12.86 min Scan# 845

Delta R.T. -0.00 min

Lab File: BE094998.D

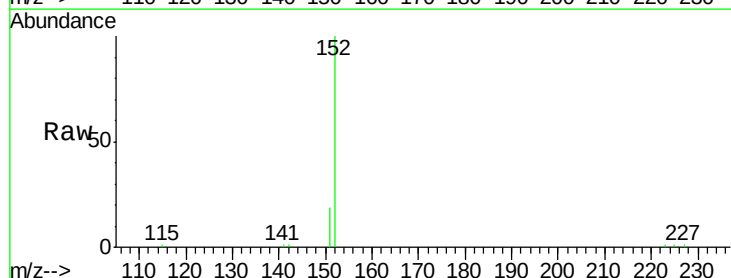
Acq: 15 Dec 2017 12:52

Tgt Ion: 152 Resp: 7549

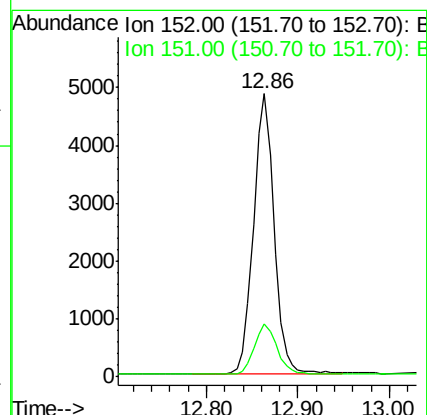
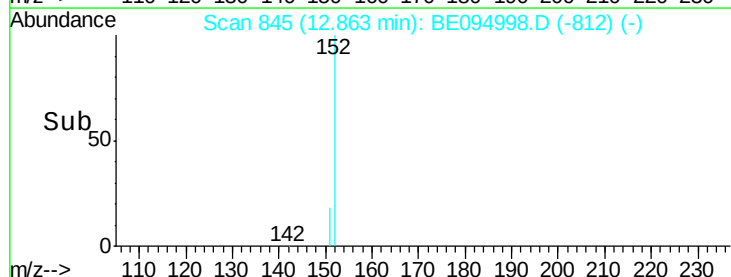
Ion Ratio Lower Upper

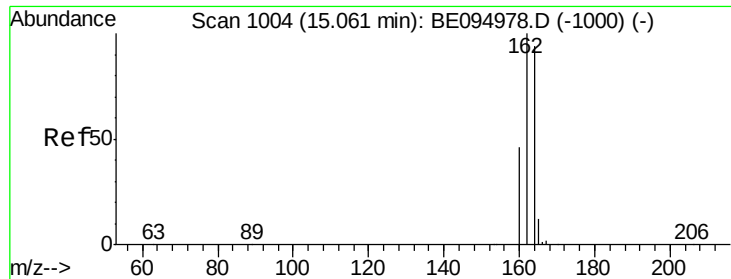
152 100

151 19.5 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): BE0
Ion 151.00 (150.70 to 151.70): BE0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 15.06 min Scan# 1004

Delta R.T. -0.00 min

Lab File: BE094998.D

Acq: 15 Dec 2017 12:52

Instrument :

BNA_E

ClientSampleId :

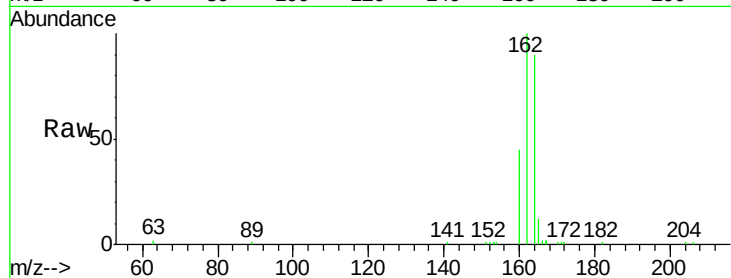
Tot Ion:164 Resp: 7882

Ion Ratio Lower Upper

164 100

162 111.7 83.1 124.7

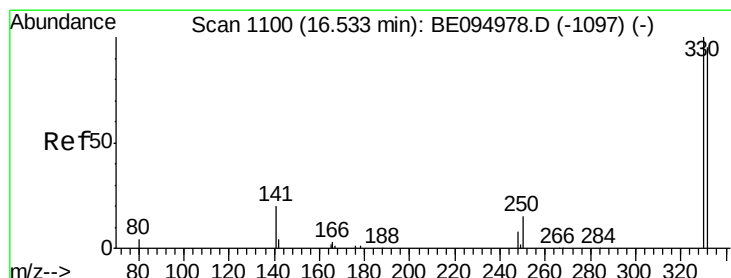
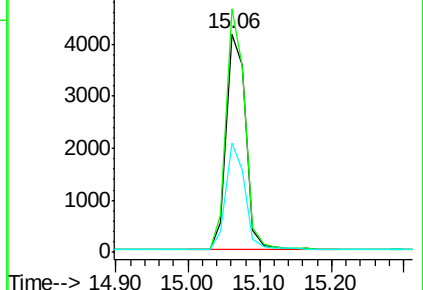
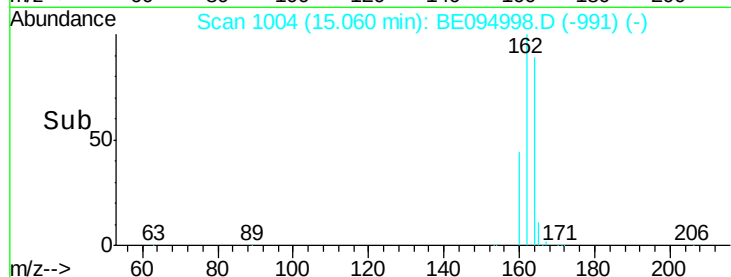
160 50.2 37.1 55.7



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: 0.269 ng

RT: 16.53 min Scan# 1100

Delta R.T. -0.00 min

Lab File: BE094998.D

Acq: 15 Dec 2017 12:52

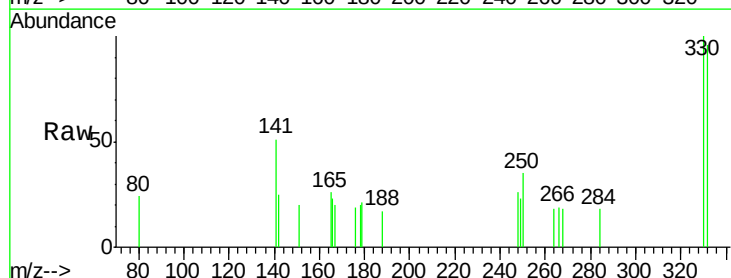
Tgt Ion:330 Resp: 492

Ion Ratio Lower Upper

330 100

332 95.7 152.7 229.1#

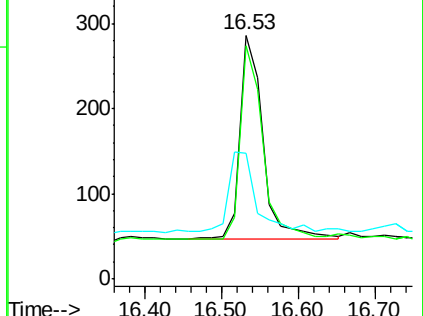
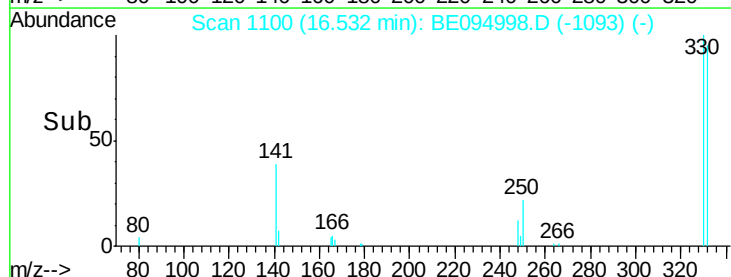
141 47.8 33.7 50.5

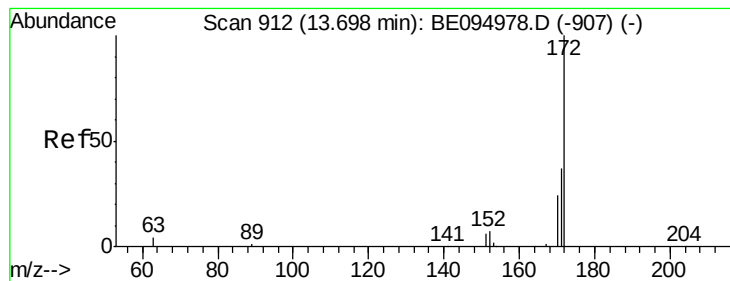


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

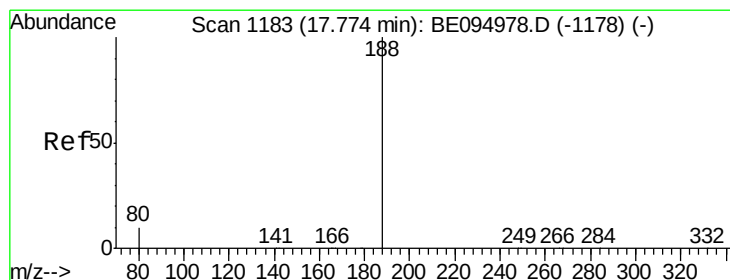
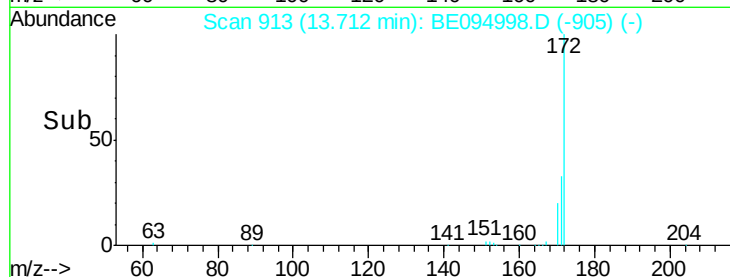
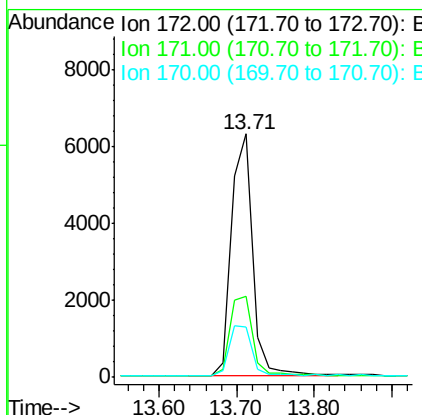
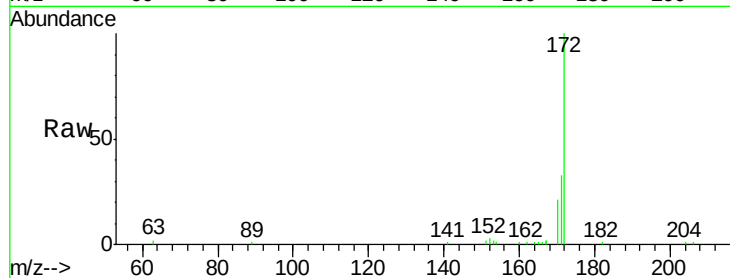




#15
2-Fluorobiphenyl
Concen: 0.341 ng
RT: 13.71 min Scan# 913
Delta R.T. 0.01 min
Lab File: BE094998.D
Acq: 15 Dec 2017 12:52

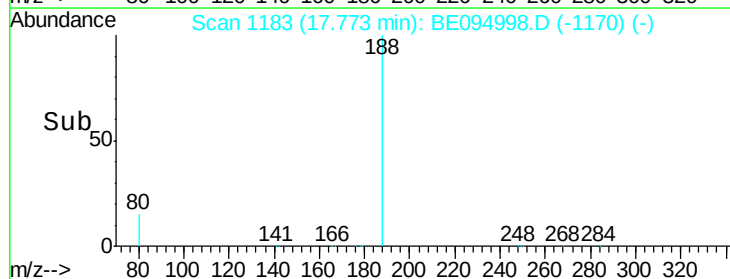
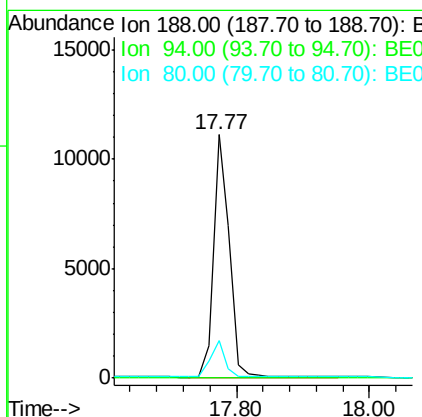
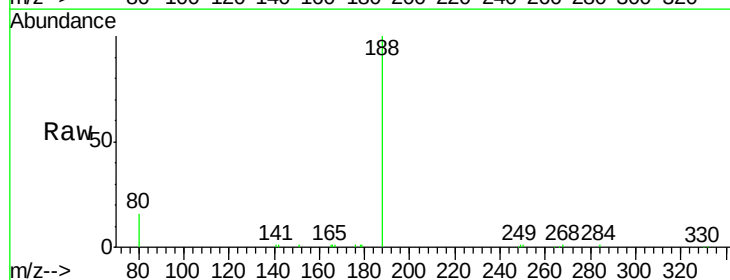
Instrument :
BNA_E
ClientSampleId :

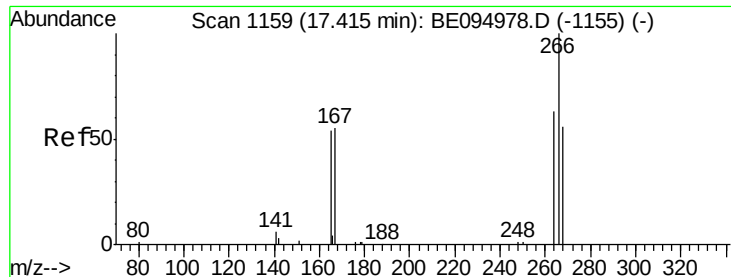
Tot Ion:172 Resp: 11919
Ion Ratio Lower Upper
172 100
171 33.4 29.9 44.9
170 20.9 21.8 32.8#



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.77 min Scan# 1183
Delta R.T. -0.00 min
Lab File: BE094998.D
Acq: 15 Dec 2017 12:52

Tgt Ion:188 Resp: 18325
Ion Ratio Lower Upper
188 100
94 0.0 3.9 5.9#
80 15.5 3.6 5.4#





#22

Pentachlorophenol

Concen: 0.084 ng

RT: 17.41 min Scan# 1159

Delta R.T. -0.00 min

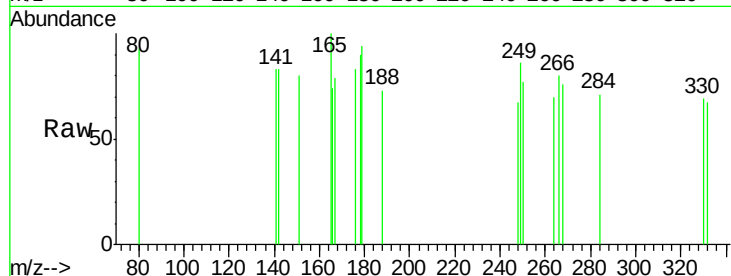
Lab File: BE094998.D

Acq: 15 Dec 2017 12:52

Instrument :

BNA_E

ClientSampled :



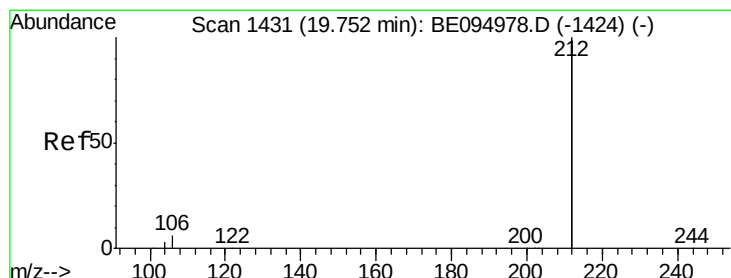
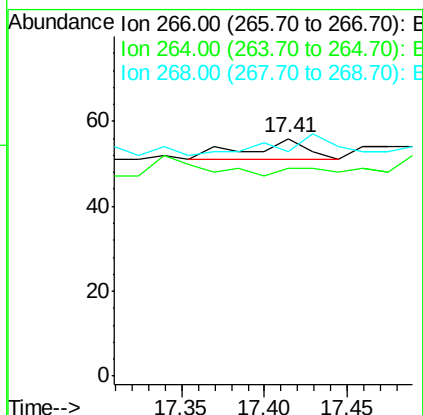
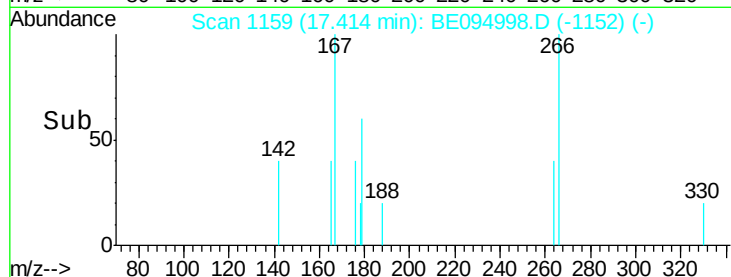
Tot Ion:266 Resp: 13

Ion Ratio Lower Upper

266 100

264 87.5 72.5 108.7

268 94.6 73.8 110.6



#25

Fluoranthene-d10

Concen: 0.313 ng

RT: 19.76 min Scan# 1432

Delta R.T. 0.01 min

Lab File: BE094998.D

Acq: 15 Dec 2017 12:52

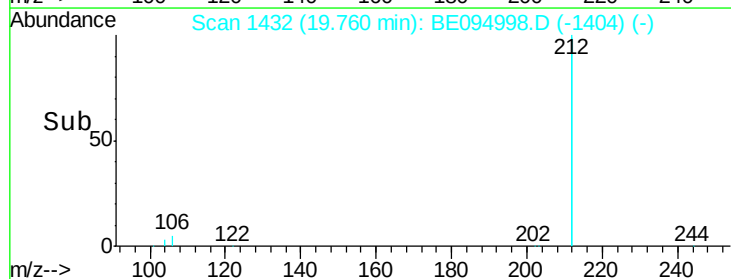
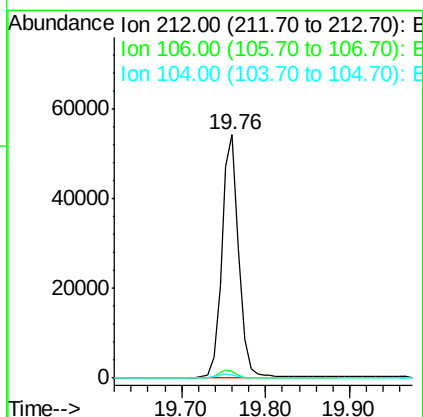
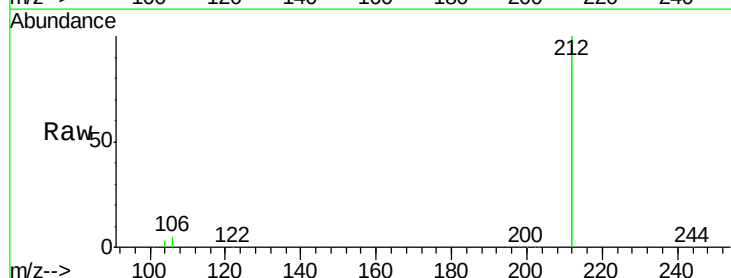
Tgt Ion:212 Resp: 74347

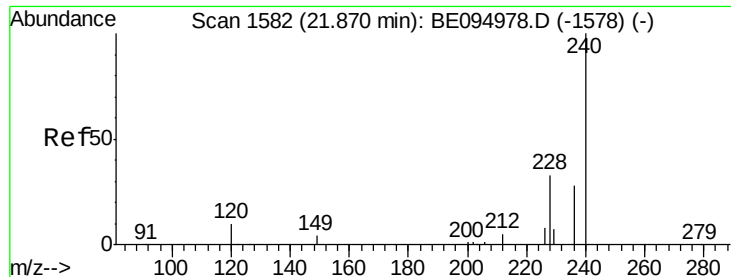
Ion Ratio Lower Upper

212 100

106 3.2 2.8 4.2

104 1.9 1.6 2.4





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.89 min Scan# 1583

Delta R.T. 0.02 min

Lab File: BE094998.D

Acq: 15 Dec 2017 12:52

Instrument :

BNA_E

ClientSampleId :

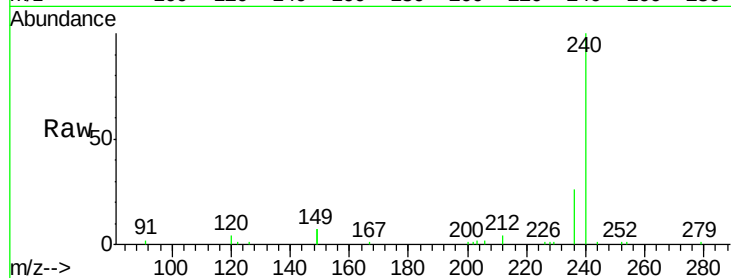
Tot Ion:240 Resp: 19584

Ion Ratio Lower Upper

240 100

120 4.3 5.5 8.3#

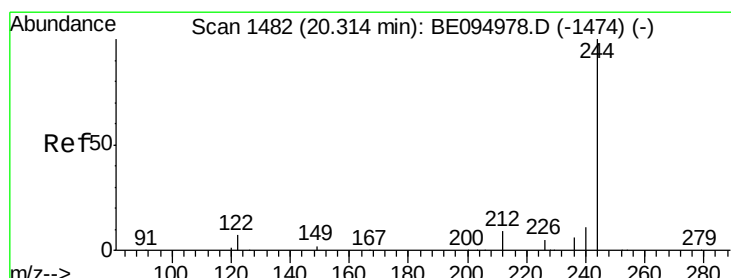
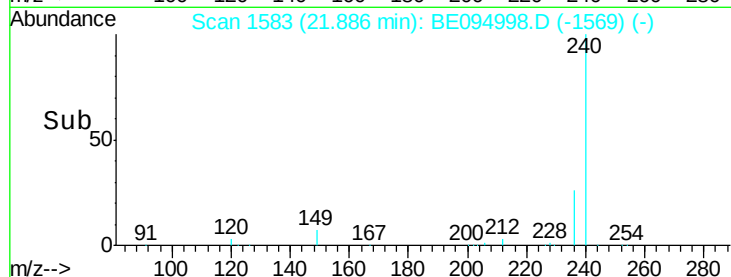
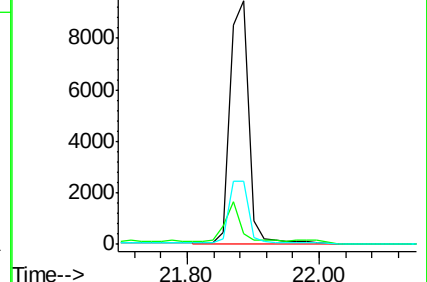
236 26.2 20.7 31.1



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



#29

Terphenyl-d14

Concen: 0.384 ng

RT: 20.31 min Scan# 1482

Delta R.T. 0.00 min

Lab File: BE094998.D

Acq: 15 Dec 2017 12:52

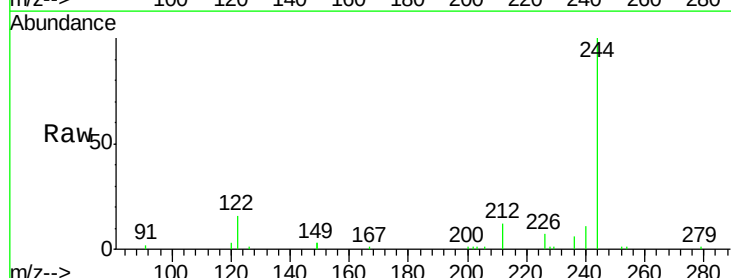
Tgt Ion:244 Resp: 14145

Ion Ratio Lower Upper

244 100

212 12.3 25.4 38.0#

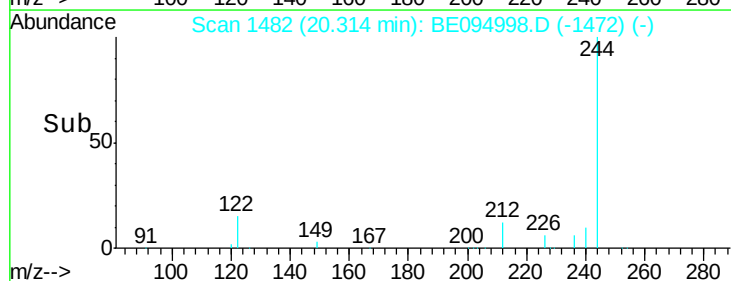
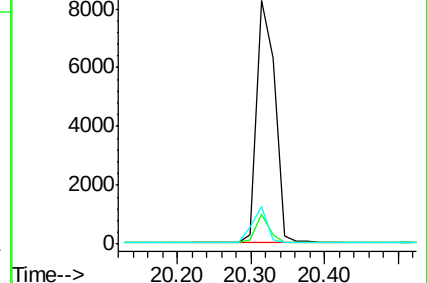
122 15.7 8.1 12.1#

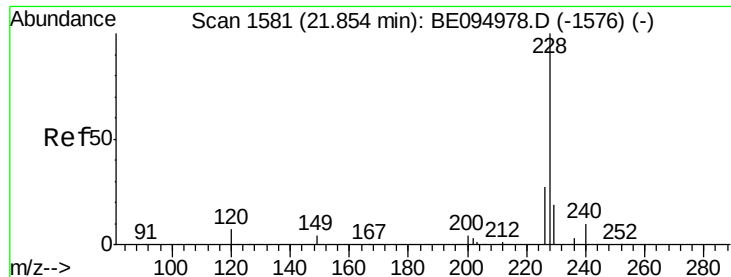


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 0.030 ng

RT: 21.86 min Scan# 1581

Delta R.T. 0.00 min

Lab File: BE094998.D

Acq: 15 Dec 2017 12:52

Instrument :

BNA_E

ClientSampleId :

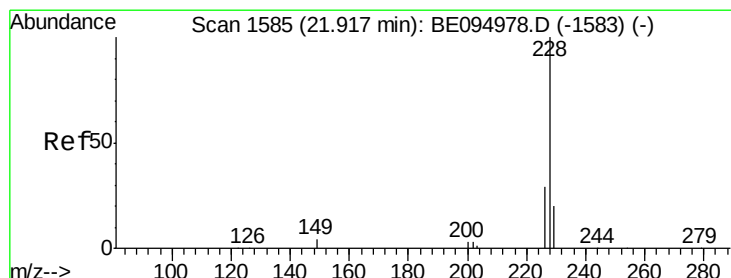
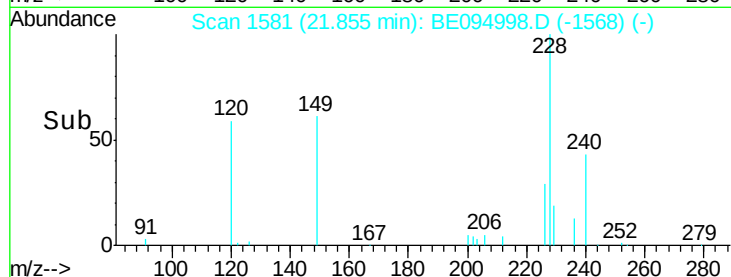
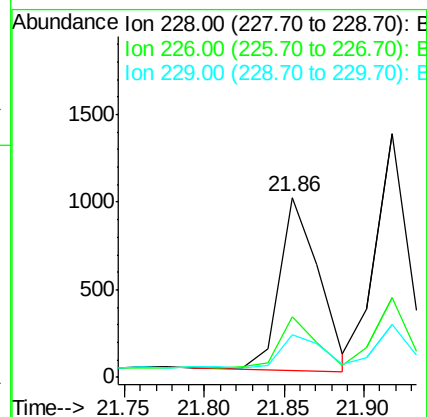
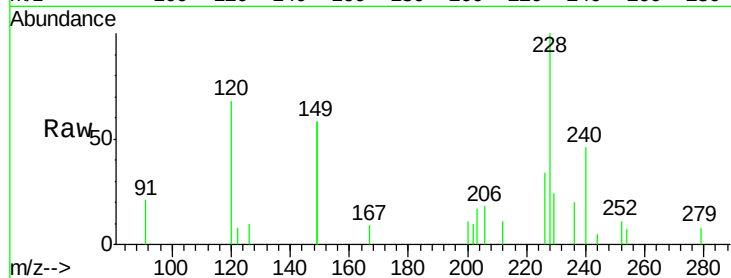
Tot Ion:228 Resp: 1699

Ion Ratio Lower Upper

228 100

226 33.6 40.0 60.0#

229 23.9 40.0 60.0#



#31

Chrysene

Concen: 0.038 ng

RT: 21.92 min Scan# 1585

Delta R.T. 0.00 min

Lab File: BE094998.D

Acq: 15 Dec 2017 12:52

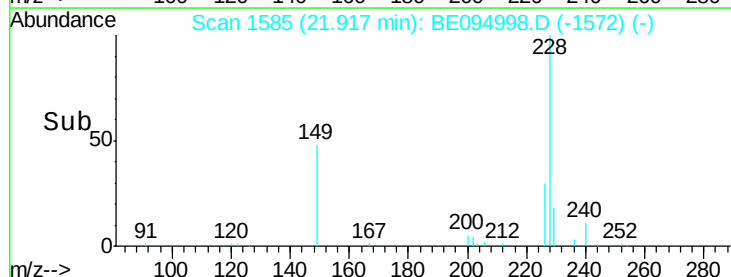
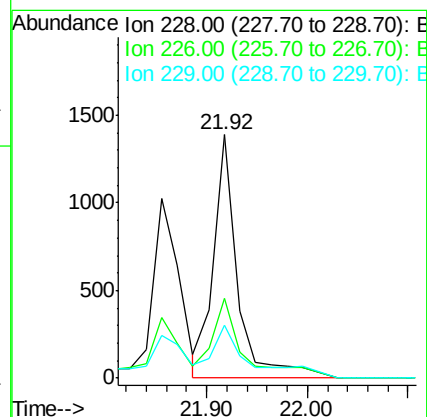
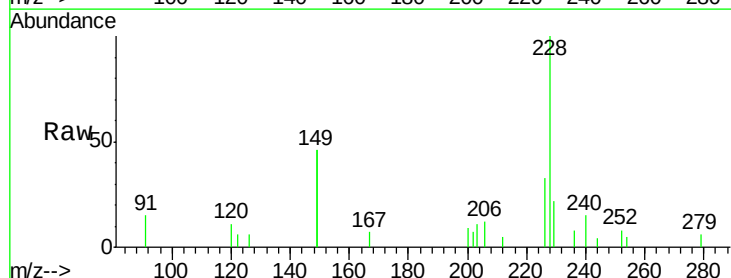
Tgt Ion:228 Resp: 2422

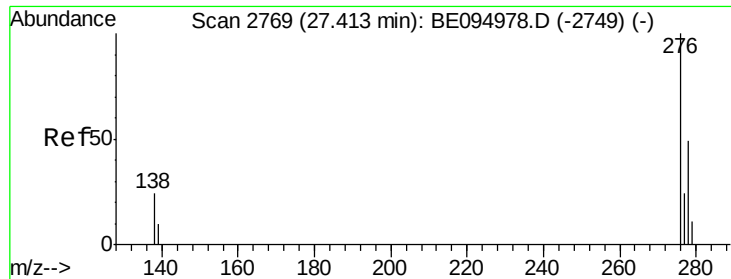
Ion Ratio Lower Upper

228 100

226 32.6 40.0 60.0#

229 21.5 40.0 60.0#





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.032 ng

RT: 27.43 min Scan# 2772

Delta R.T. 0.01 min

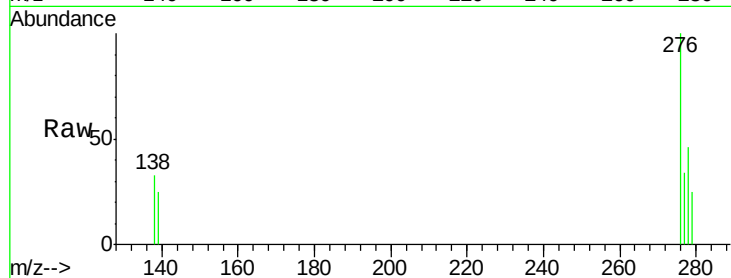
Lab File: BE094998.D

Acq: 15 Dec 2017 12:52

Instrument :

BNA_E

ClientSampleId :



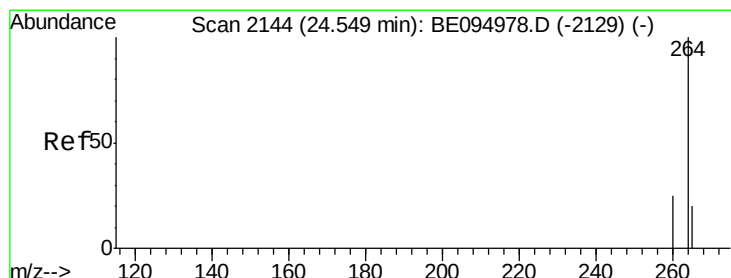
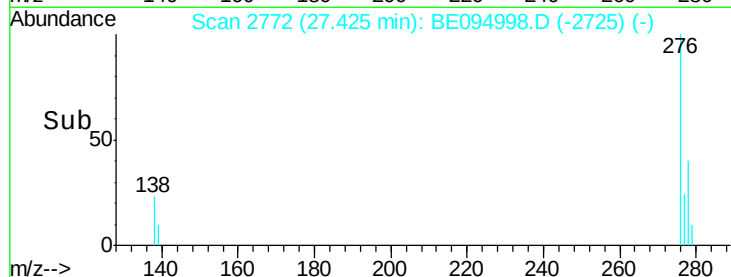
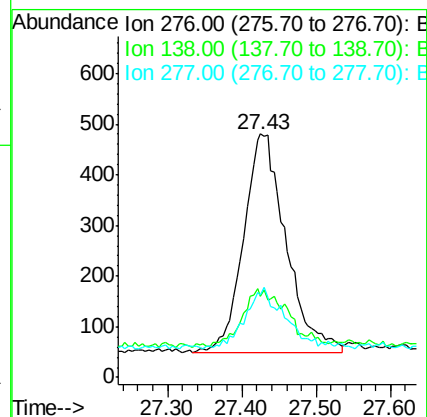
Tot Ion:276 Resp: 1704

Ion Ratio Lower Upper

276 100

138 26.5 22.5 33.7

277 25.9 19.9 29.9



#34

Perylene-d12

Concen: 0.400 ng

RT: 24.56 min Scan# 2147

Delta R.T. 0.01 min

Lab File: BE094998.D

Acq: 15 Dec 2017 12:52

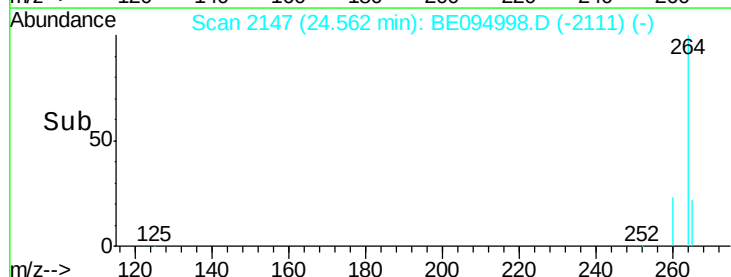
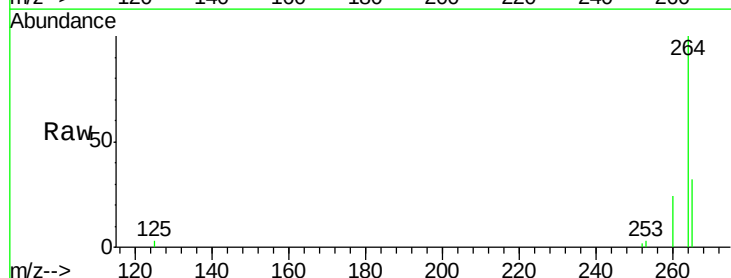
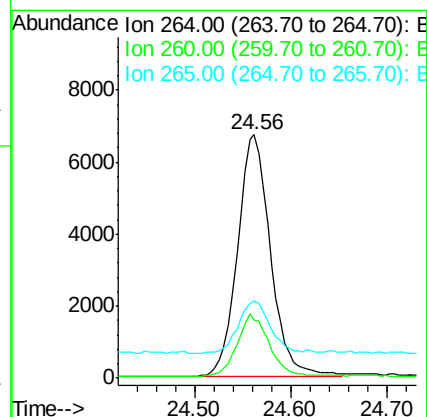
Tgt Ion:264 Resp: 15821

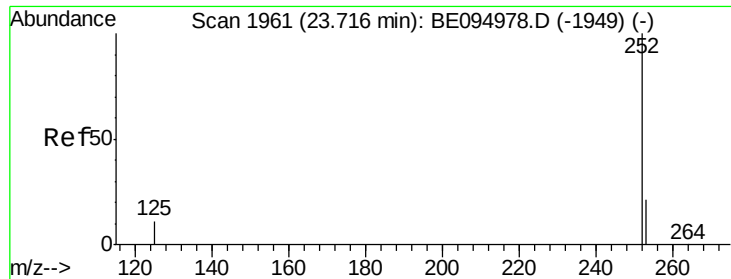
Ion Ratio Lower Upper

264 100

260 24.0 20.5 30.7

265 31.7 22.8 34.2





#35

Benzo(b)fluoranthene

Concen: 0.030 ng

RT: 23.73 min Scan# 1964

Delta R.T. 0.01 min

Lab File: BE094998.D

Acq: 15 Dec 2017 12:52

Instrument :

BNA_E

ClientSampleId :

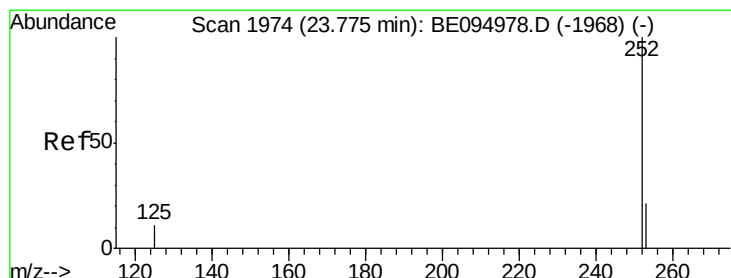
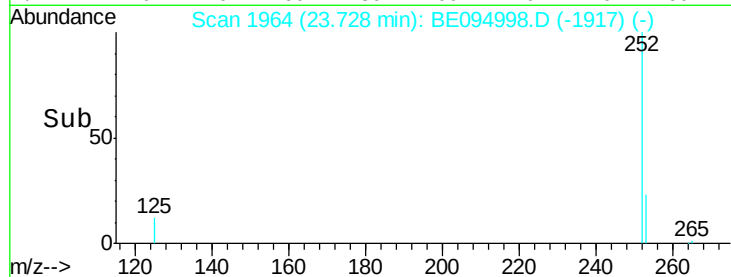
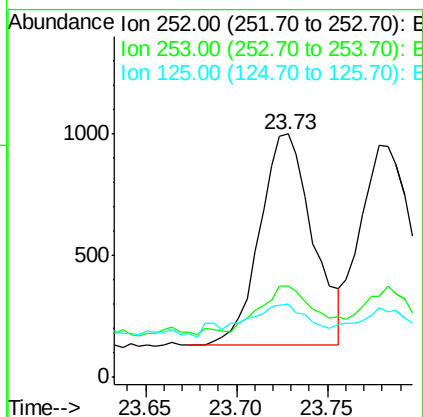
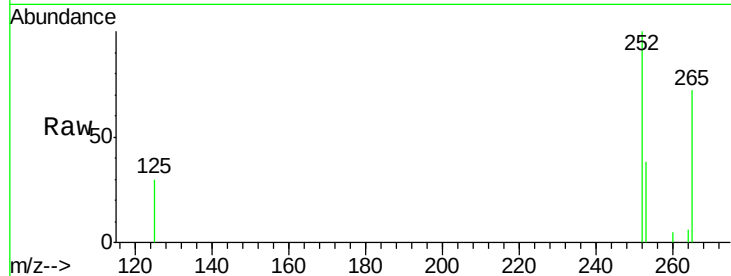
Tot Ion:252 Resp: 1770

Ion Ratio Lower Upper

252 100

253 37.5 20.0 30.0#

125 29.9 16.0 24.0#



#36

Benzo(k)fluoranthene

Concen: 0.027 ng

RT: 23.78 min Scan# 1975

Delta R.T. 0.00 min

Lab File: BE094998.D

Acq: 15 Dec 2017 12:52

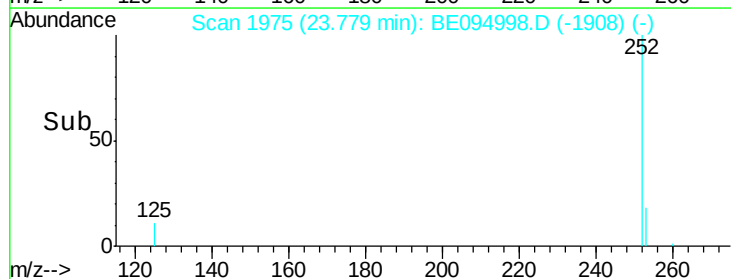
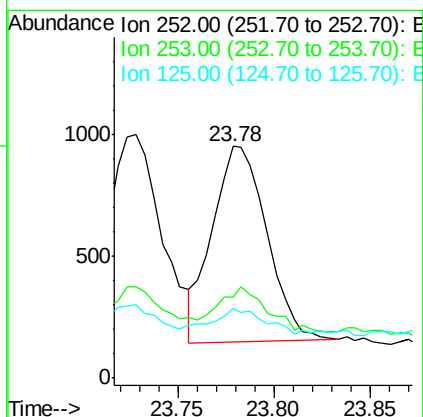
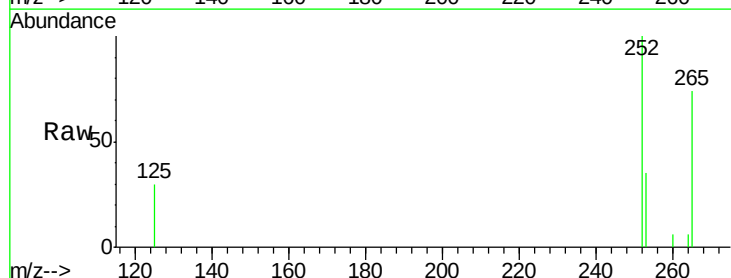
Tgt Ion:252 Resp: 1583

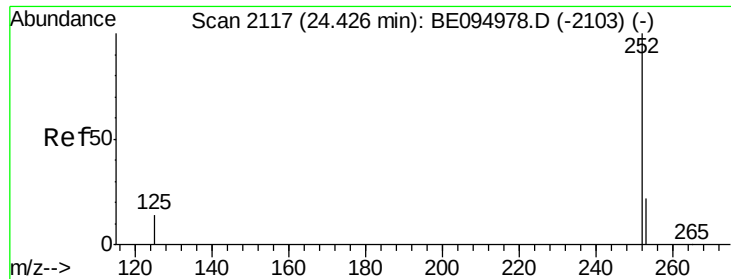
Ion Ratio Lower Upper

252 100

253 35.1 16.0 24.0#

125 30.3 8.0 12.0#





#37

Benzo(a)pyrene

Concen: 0.031 ng

RT: 24.43 min Scan# 2119

Delta R.T. 0.01 min

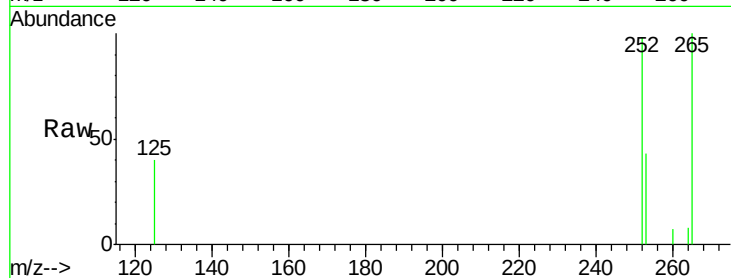
Lab File: BE094998.D

Acq: 15 Dec 2017 12:52

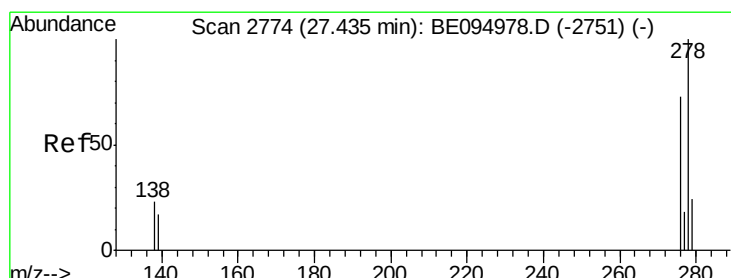
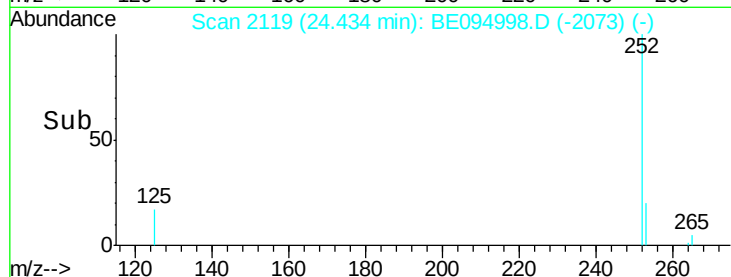
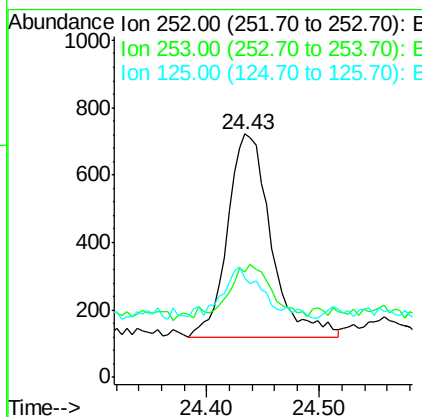
Instrument :

BNA_E

ClientSampleId :



Tot Ion:252	Resp:	1580
Ion	Ratio	Lower Upper
252	100	
253	43.5	16.0 24.0#
125	40.4	12.0 18.0#



#38

Dibenzo(a,h)anthracene

Concen: 0.028 ng

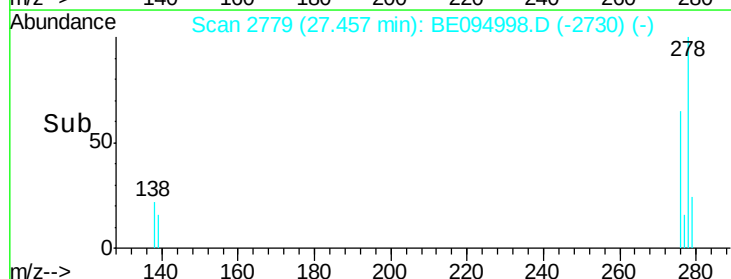
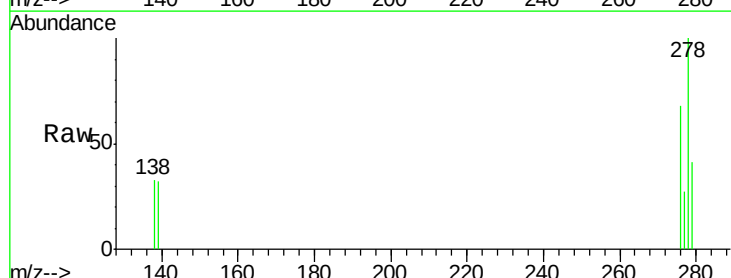
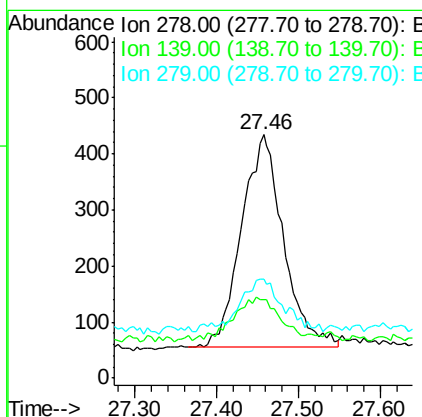
RT: 27.46 min Scan# 2779

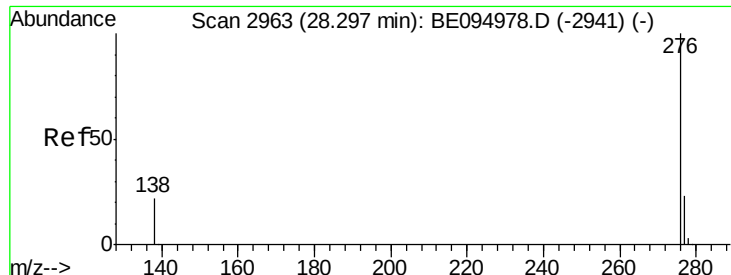
Delta R.T. 0.02 min

Lab File: BE094998.D

Acq: 15 Dec 2017 12:52

Tgt Ion:278	Resp:	1355
Ion	Ratio	Lower Upper
278	100	
139	32.3	16.0 24.0#
279	40.6	20.0 30.0#





#39

Benzo(a,h,i)perylene

Concen: 0.032 ng

RT: 28.31 min Scan# 2967

Delta R.T. 0.02 min

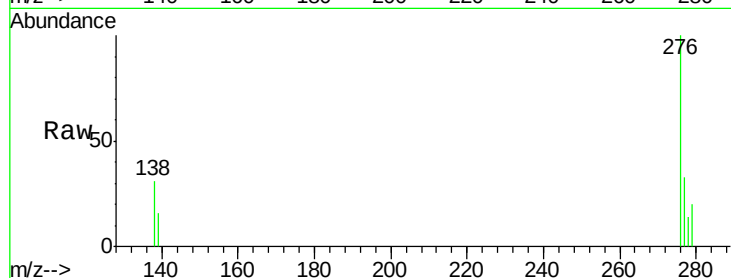
Lab File: BE094998.D

Acq: 15 Dec 2017 12:52

Instrument :

BNA_E

ClientSampleId :



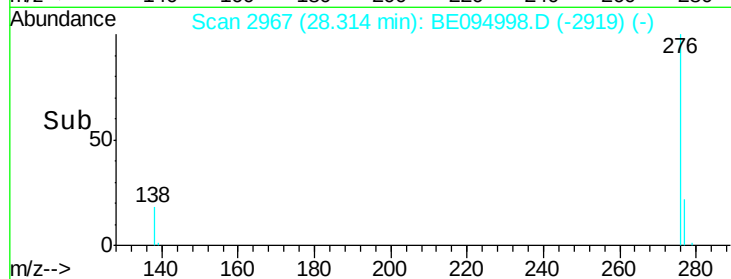
Tot Ion: 276 Resp: 1526

Ion Ratio Lower Upper

276 100

277 33.0 16.0 24.0#

138 30.9 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

28.31

400

300

200

100

0

Time-->