

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE101617\
 Data File : BE094420.D
 Acq On : 16 Oct 2017 16:53
 Operator : SJ/JU
 Sample : I5266-05
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PT-BN-WP

Quant Time: Oct 16 20:09:55 2017
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE101617.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 16 14:54:40 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.91	152	1425	0.40	ng	-0.01
7) Naphthalene-d8	10.69	136	7092	0.40	ng	-0.02
13) Acenaphthene-d10	14.53	164	3940	0.40	ng	0.00
19) Phenanthrene-d10	17.24	188	6841	0.40	ng	-0.03
27) Chrysene-d12	21.43	240	9050	0.40	ng	0.00
34) Perylene-d12	23.96	264	8825	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.51	112	759806	157.78	ng	0.00
5) Phenol-d6	7.11	99	1170808	155.89	ng	-0.01
8) Nitrobenzene-d5	9.06	82	770920	125.09	ng	-0.02
11) 2-Methylnaphthalene-d10	0.00	152	0d	0.00	ng	
14) 2,4,6-Tribromophenol	16.03	330	271276	180.73	ng	0.00
15) 2-Fluorobiphenyl	13.15	172	1533840	109.06	ng	0.00
25) Fluoranthene-d10	0.00	212	0d	0.00	ng	
29) Terphenyl-d14	19.87	244	1794728	98.28	ng	0.00

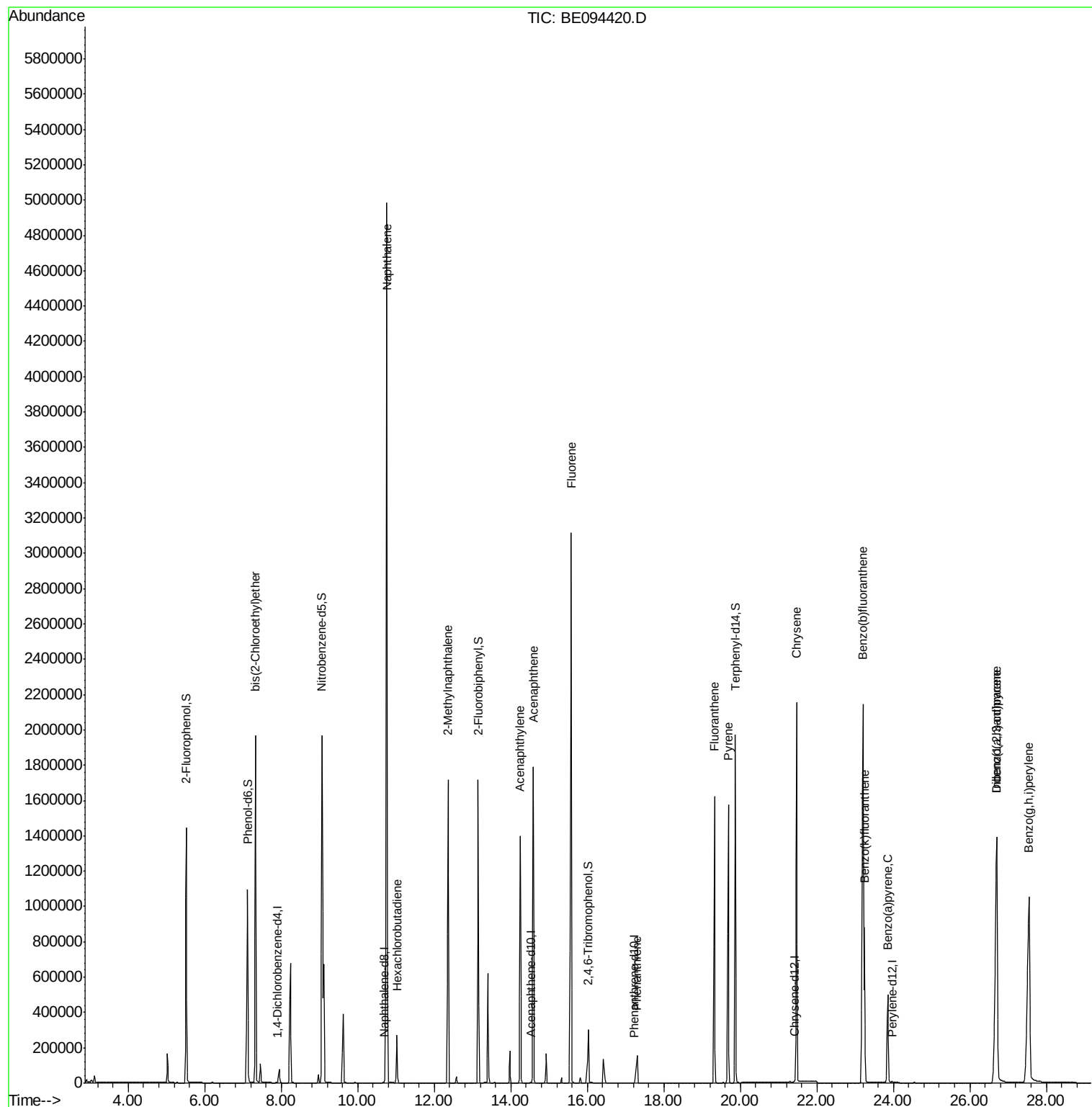
Target Compounds					Qvalue	
6) bis(2-Chloroethyl)ether	7.33	93	679723	122.371	ng	99
9) Naphthalene	10.76	128	9622039	121.329	ng	99
10) Hexachlorobutadiene	11.03	225	216836	68.404	ng	98
12) 2-Methylnaphthalene	12.36	142	1239632	94.816	ng	97
16) Acenaphthylene	14.24	152	1495294	69.984	ng	99
17) Acenaphthene	14.58	154	884975	65.782	ng	97
18) Fluorene	15.58	166	1702259	98.113	ng	98
23) Phenanthrene	17.30	178	305199	11.334	ng	96
26) Fluoranthene	19.32	202	1531914	45.847	ng	99
28) Pyrene	19.68	202	1504421	44.059	ng	98
31) Chrysene	21.47	228	1931427	64.103	ng	# 65
33) Indeno(1,2,3-cd)pyrene	26.70	276	2877585	94.824	ng	96
35) Benzo(b)fluoranthene	23.21	252	3757569	125.527	ng	# 39
36) Benzo(k)fluoranthene	23.25	252	1038693	35.218	ng	# 38
37) Benzo(a)pyrene	23.85	252	807943	28.717	ng	# 31
38) Dibenzo(a,h)anthracene	26.70	278	930160	34.926	ng	# 42
39) Benzo(g,h,i)perylene	27.55	276	3135411	122.401	ng	# 52

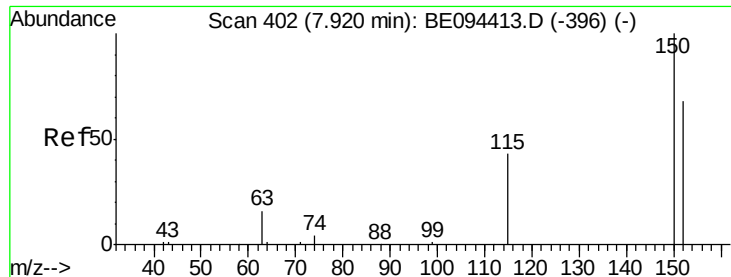
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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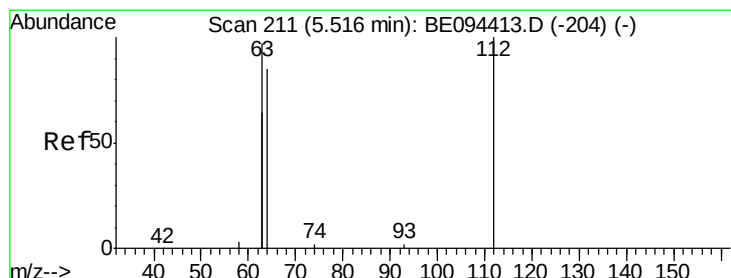
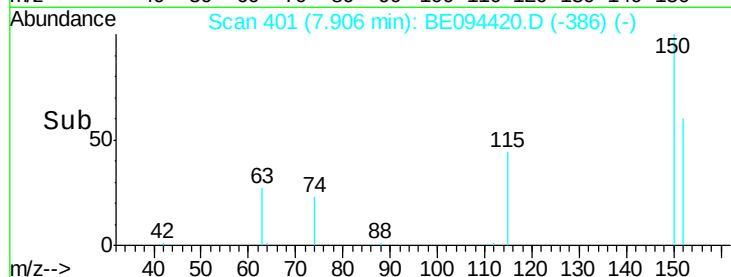
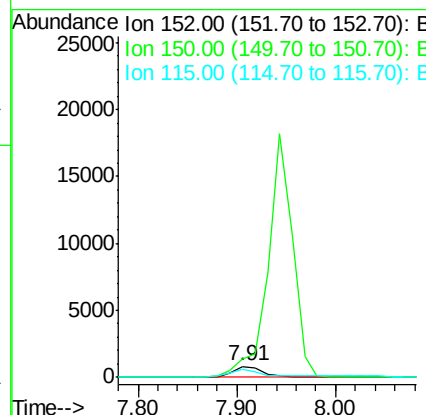
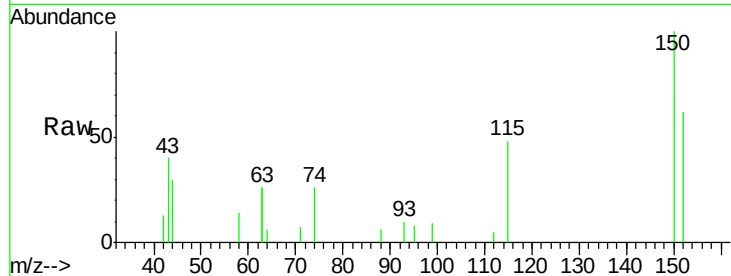




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.91 min Scan# 401
 Delta R.T. -0.01 min
 Lab File: BE094420.D
 Acq: 16 Oct 2017 16:53

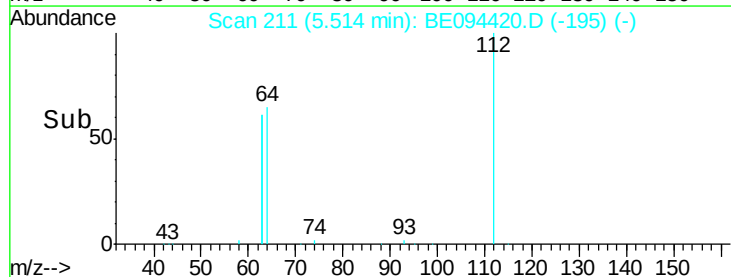
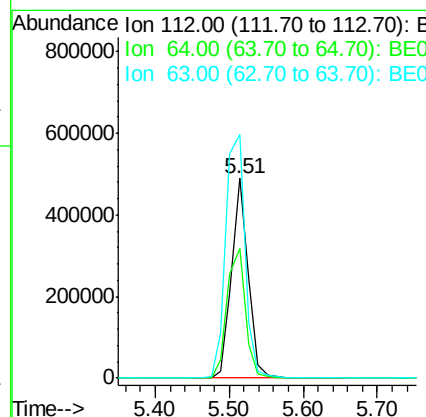
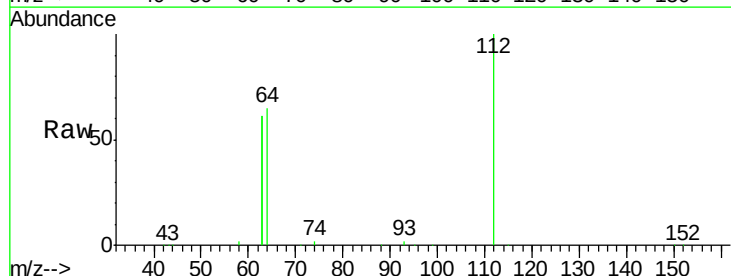
Instrument :
 BNA_E
 ClientSampleId :
 PT-BN-WP

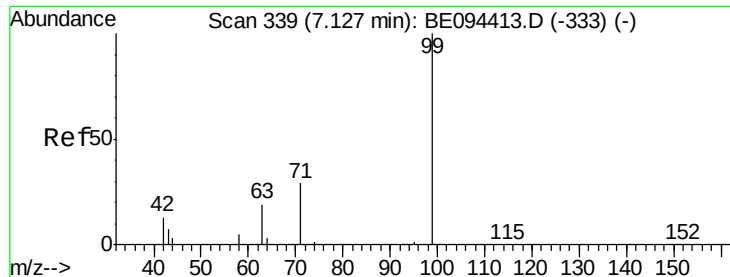
Tgt Ion:152 Resp: 1425
 Ion Ratio Lower Upper
 152 100
 150 160.9 117.2 175.8
 115 77.4 57.0 85.6



#4
 2-Fluorophenol
 Concen: 157.777 ng
 RT: 5.51 min Scan# 211
 Delta R.T. -0.00 min
 Lab File: BE094420.D
 Acq: 16 Oct 2017 16:53

Tgt Ion:112 Resp: 759806
 Ion Ratio Lower Upper
 112 100
 64 71.8 60.1 90.1
 63 142.1 116.8 175.2





#5

Phenol-d6

Concen: 155.891 ng

RT: 7.11 min Scan# 338

Delta R.T. -0.01 min

Lab File: BE094420.D

Acq: 16 Oct 2017 16:53

Instrument :

BNA_E

ClientSampleId :

PT-BN-WP

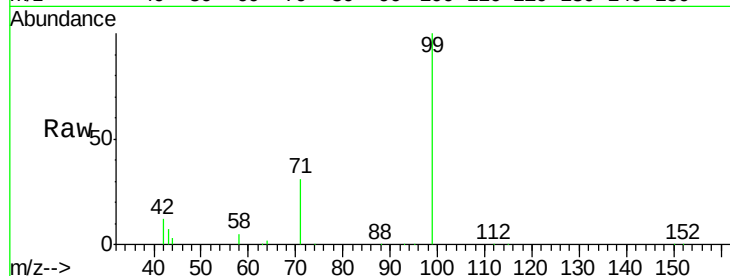
Tgt Ion: 99 Resp: 1170808

Ion Ratio Lower Upper

99 100

42 18.7 20.2 30.2#

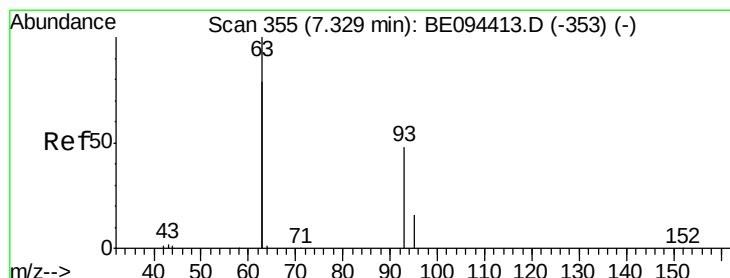
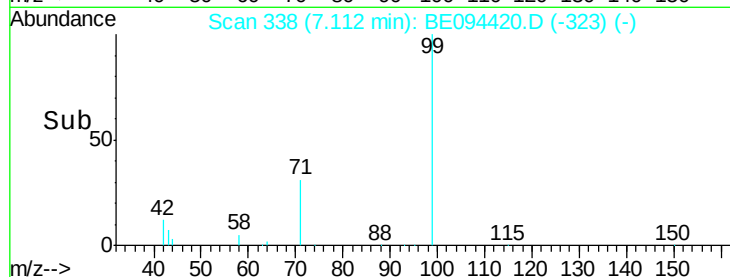
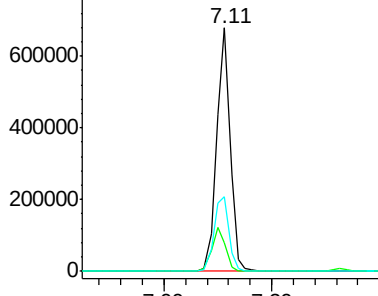
71 34.3 28.4 42.6



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



#6

bis(2-Chloroethyl)ether

Concen: 122.371 ng

RT: 7.33 min Scan# 355

Delta R.T. -0.00 min

Lab File: BE094420.D

Acq: 16 Oct 2017 16:53

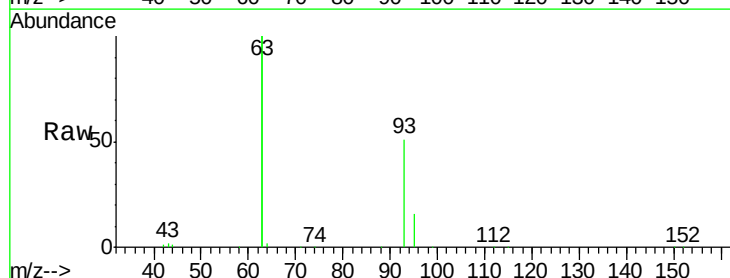
Tgt Ion: 93 Resp: 679723

Ion Ratio Lower Upper

93 100

63 346.8 275.3 412.9

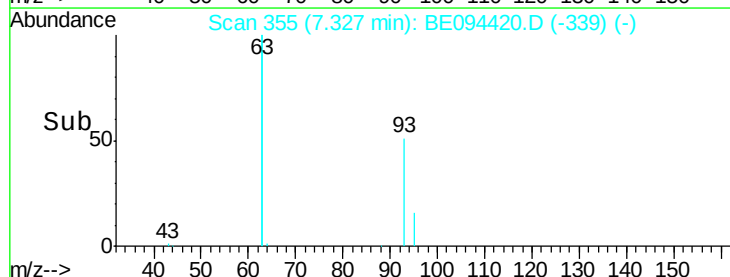
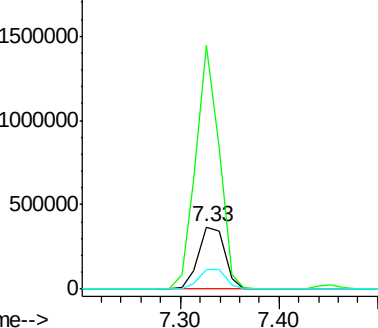
95 32.3 25.2 37.8

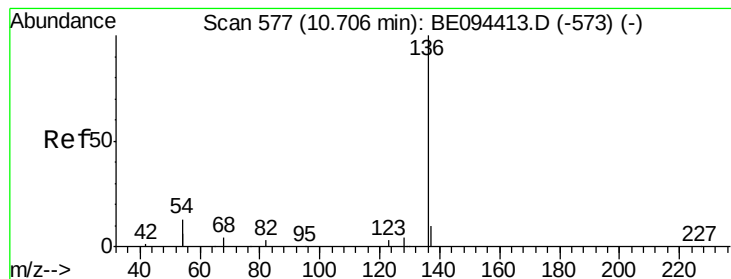


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.69 min Scan# 576

Delta R.T. -0.02 min

Lab File: BE094420.D

Acq: 16 Oct 2017 16:53

Instrument :

BNA_E

ClientSampleId :

PT-BN-WP

Tgt Ion:136 Resp: 7092

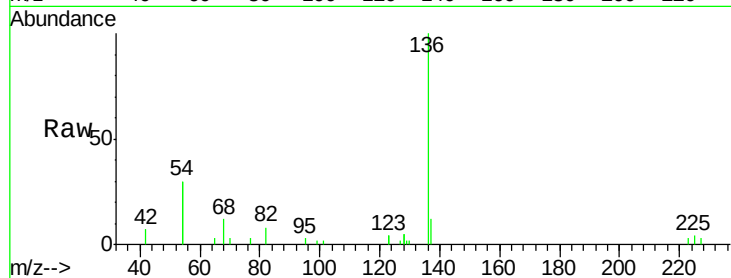
Ion Ratio Lower Upper

136 100

137 11.8 9.5 14.3

54 60.8 29.1 43.7#

68 11.7 6.2 9.2#

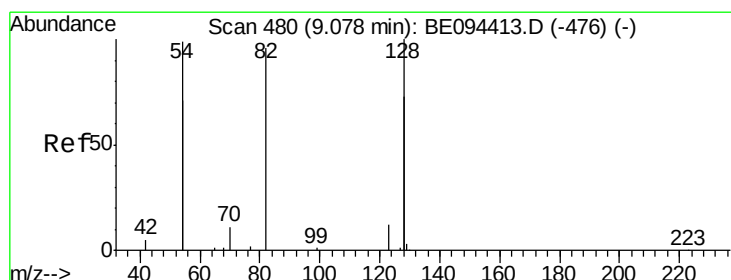
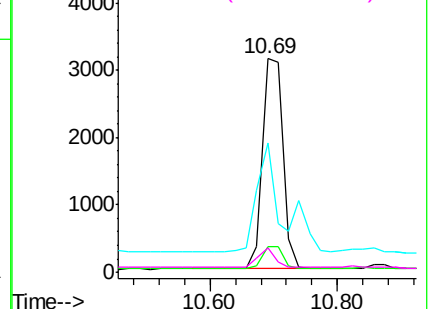
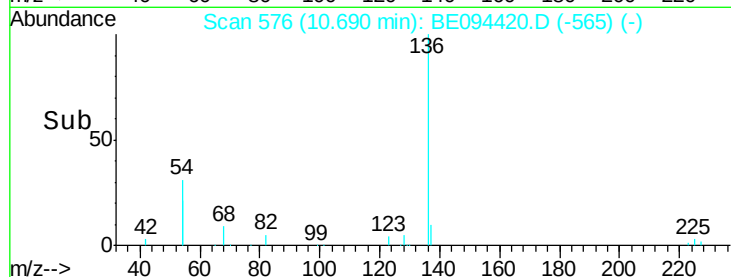


Abundance Ion 136.00 (135.70 to 136.70): E

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



#8

Nitrobenzene-d5

Concen: 125.089 ng

RT: 9.06 min Scan# 479

Delta R.T. -0.02 min

Lab File: BE094420.D

Acq: 16 Oct 2017 16:53

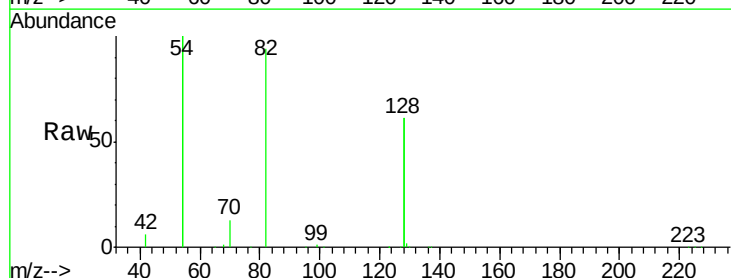
Tgt Ion: 82 Resp: 770920

Ion Ratio Lower Upper

82 100

128 129.8 150.0 225.0#

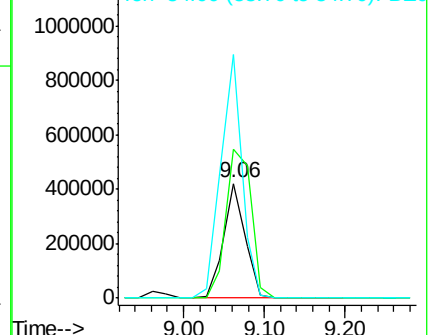
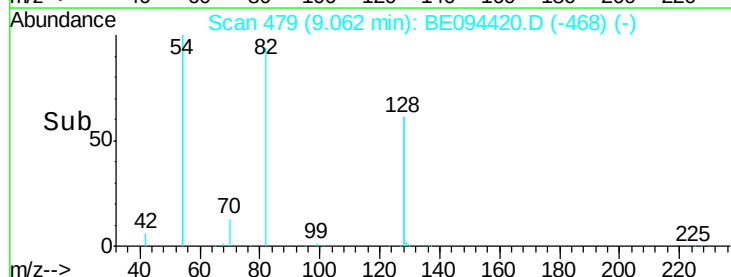
54 212.8 154.2 231.4

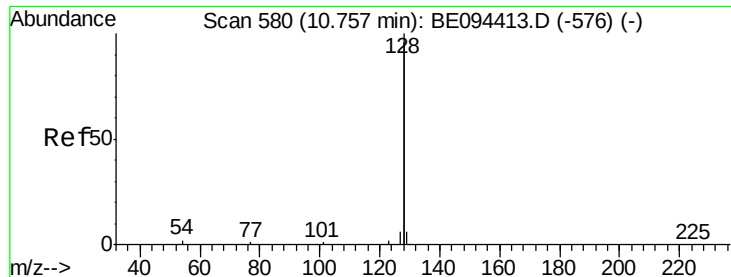


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 121.329 ng

RT: 10.76 min Scan# 580

Delta R.T. 0.00 min

Lab File: BE094420.D

Acq: 16 Oct 2017 16:53

Instrument :

BNA_E

ClientSampleId :

PT-BN-WP

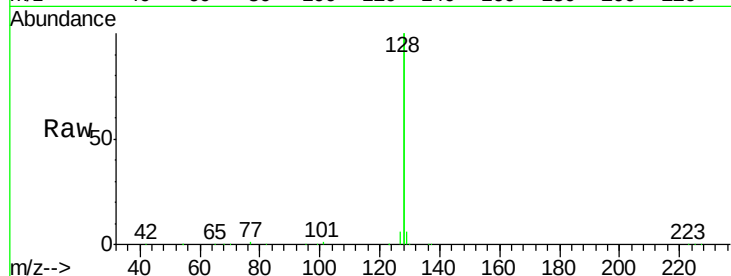
Tgt Ion:128 Resp: 9622039

Ion Ratio Lower Upper

128 100

129 2.9 2.6 3.8

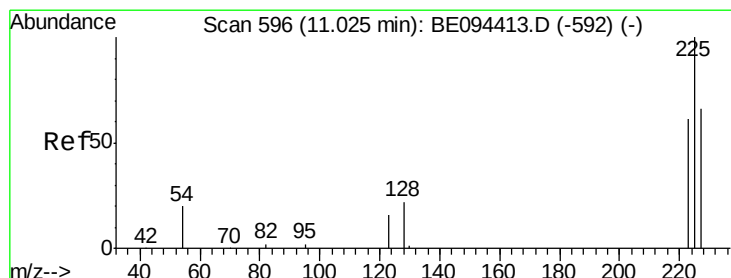
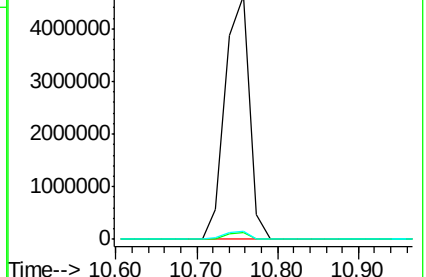
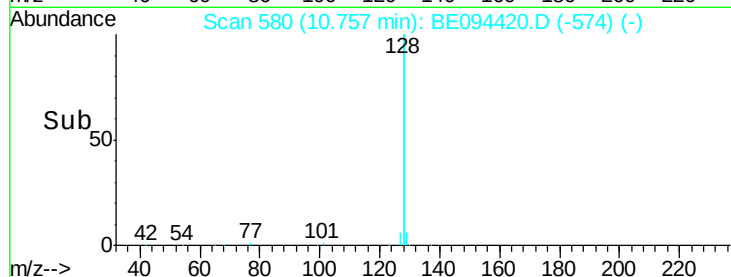
127 3.2 2.8 4.2



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



#10

Hexachlorobutadiene

Concen: 68.404 ng

RT: 11.03 min Scan# 596

Delta R.T. 0.00 min

Lab File: BE094420.D

Acq: 16 Oct 2017 16:53

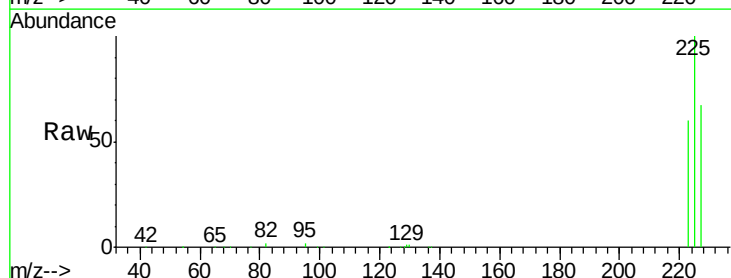
Tgt Ion:225 Resp: 216836

Ion Ratio Lower Upper

225 100

223 63.2 53.0 79.6

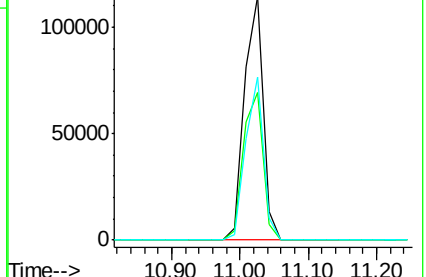
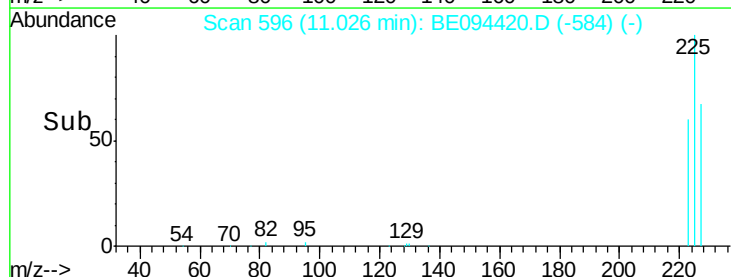
227 64.2 51.4 77.2

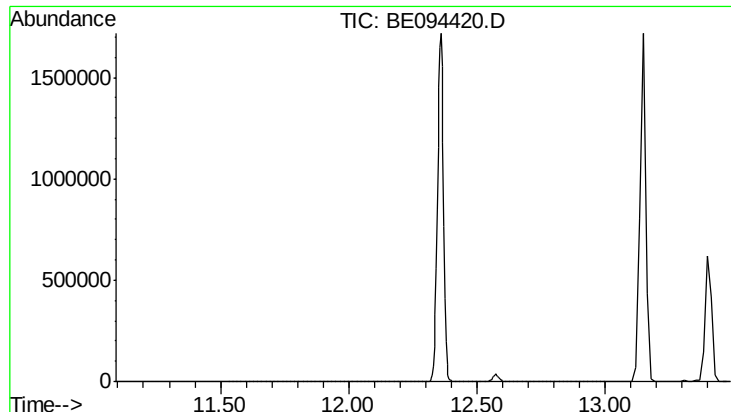


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

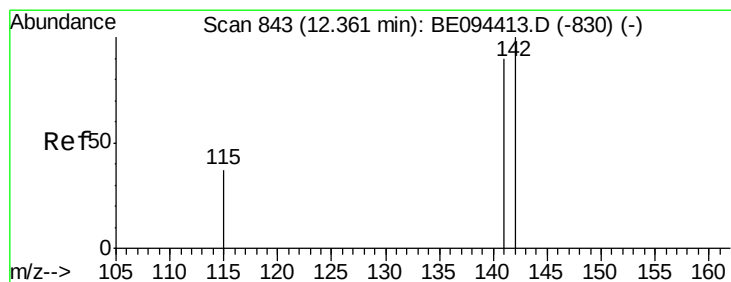
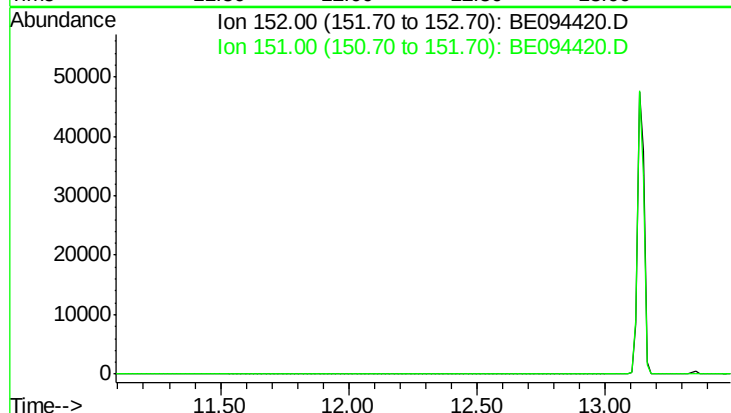




#11
 2-Methylnaphthalene-d10
 Concen: 0.000 ng
 Expected RT: 12.29 min
 Lab File: BE094420.D
 Acq: 16 Oct 2017 16:53

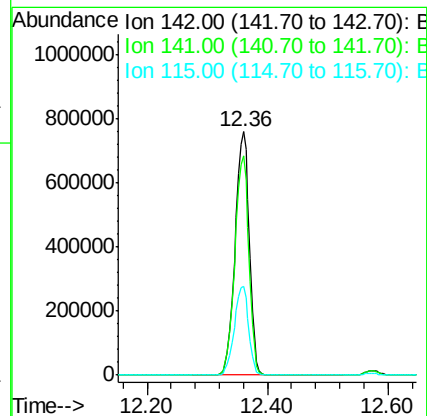
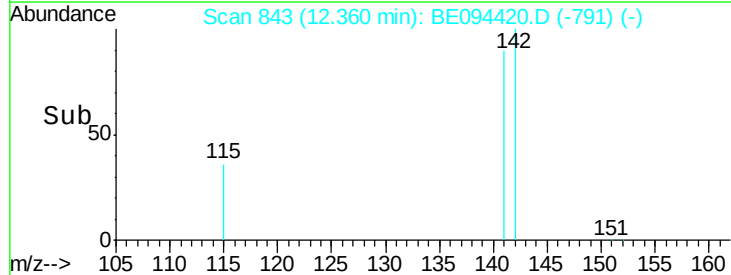
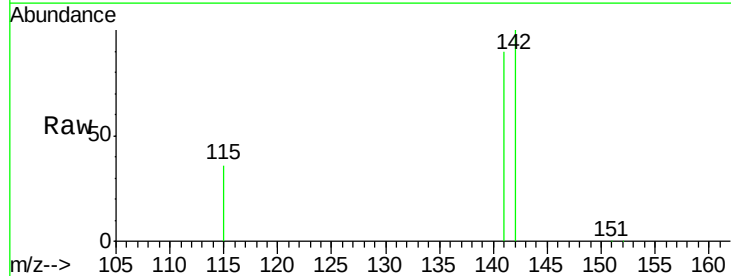
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 BNA_E
 ClientSampleId :
 PT-BN-WP

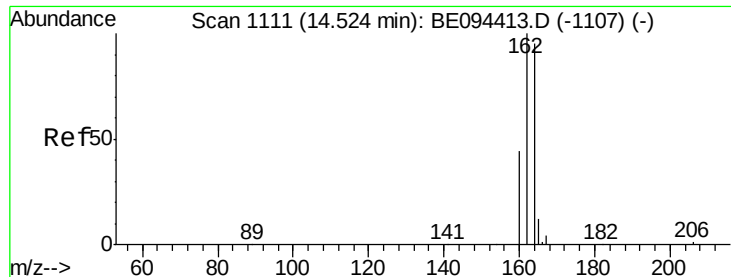
Tgt Ion: 152
 Sig Exp Ratio
 152 100
 151 19.2



#12
 2-Methylnaphthalene
 Concen: 94.816 ng
 RT: 12.36 min Scan# 843
 Delta R.T. -0.00 min
 Lab File: BE094420.D
 Acq: 16 Oct 2017 16:53

Tgt Ion: 142 Resp: 1239632
 Ion Ratio Lower Upper
 142 100
 141 89.9 70.4 105.6
 115 36.4 31.7 47.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.53 min Scan# 1112

Delta R.T. 0.00 min

Lab File: BE094420.D

Acq: 16 Oct 2017 16:53

Instrument :

BNA_E

ClientSampleId :

PT-BN-WP

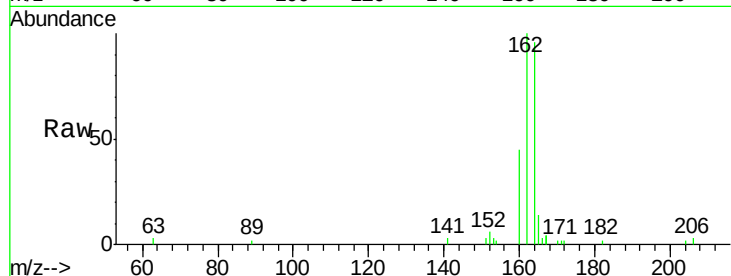
Tgt Ion:164 Resp: 3940

Ion Ratio Lower Upper

164 100

162 104.4 83.1 124.7

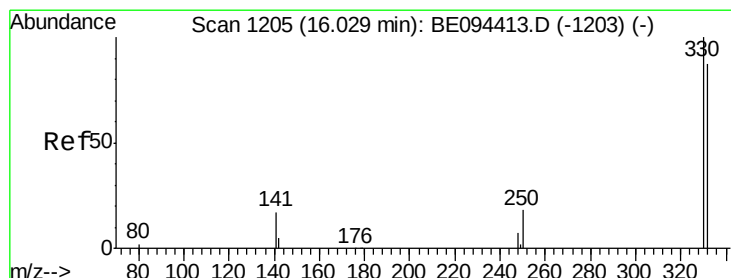
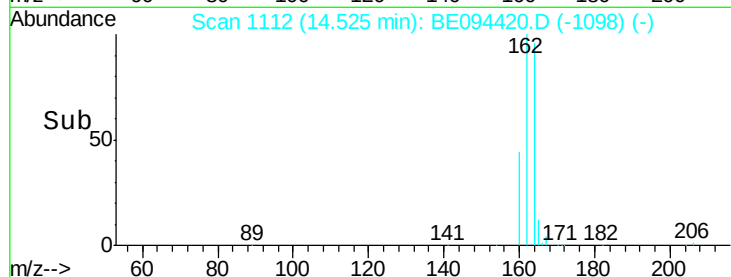
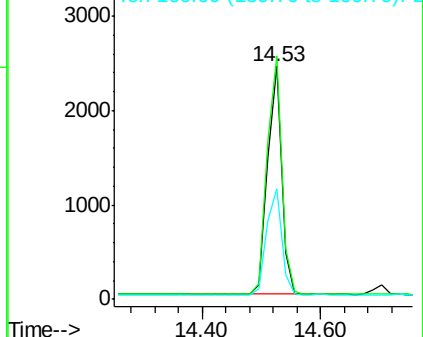
160 47.5 37.1 55.7



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: 180.726 ng

RT: 16.03 min Scan# 1206

Delta R.T. 0.00 min

Lab File: BE094420.D

Acq: 16 Oct 2017 16:53

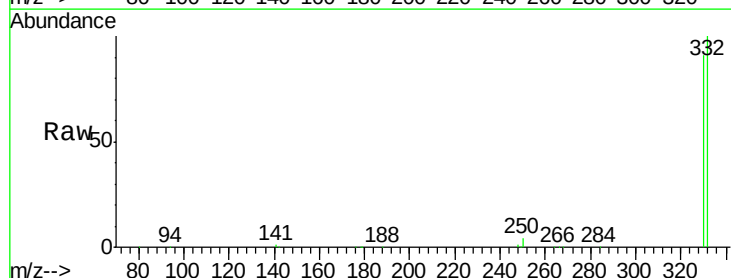
Tgt Ion:330 Resp: 271276

Ion Ratio Lower Upper

330 100

332 110.5 152.7 229.1#

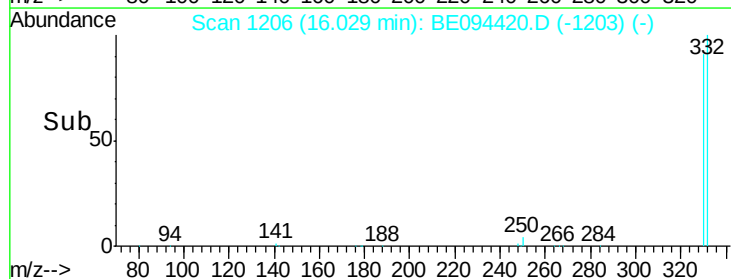
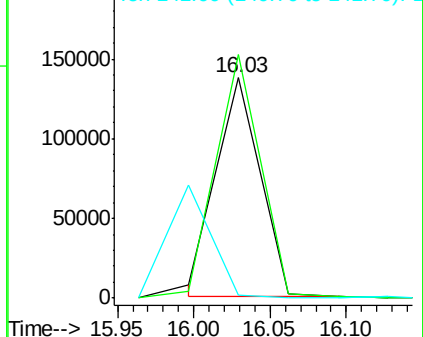
141 0.0 33.7 50.5#

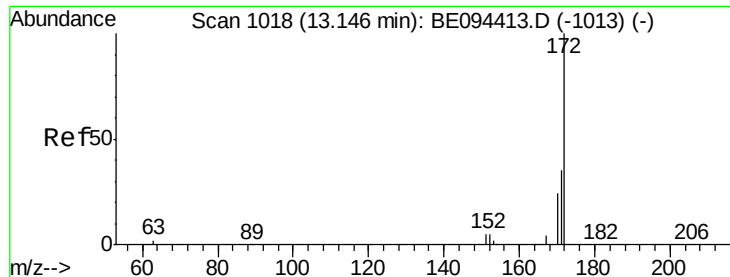


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

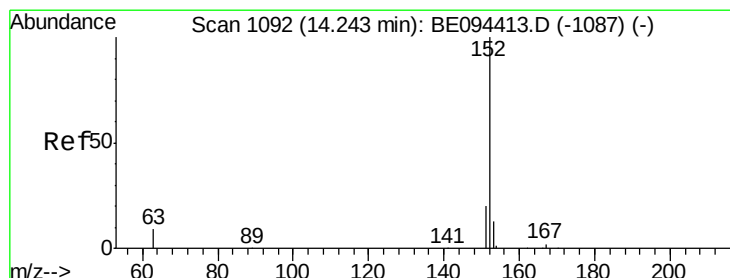
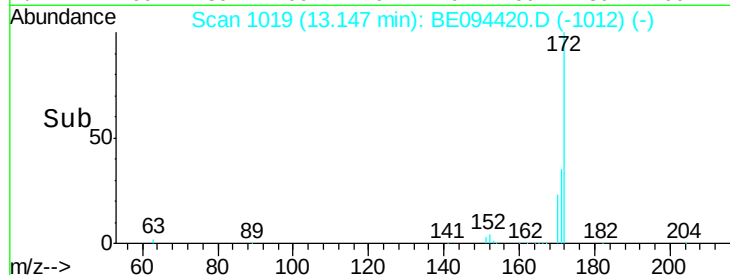
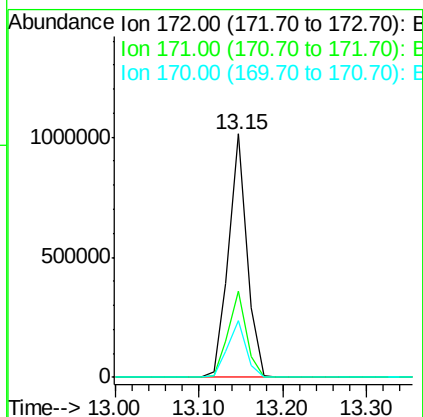
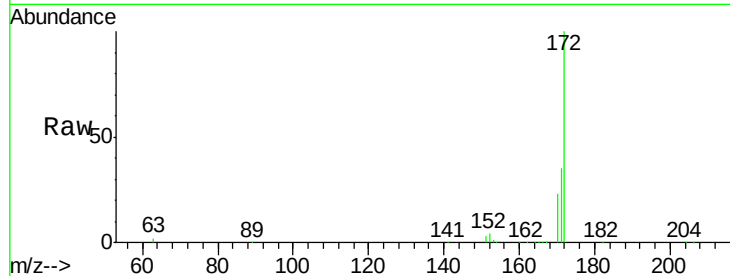




#15
2-Fluorobiphenyl
Concen: 109.065 ng
RT: 13.15 min Scan# 1019
Delta R.T. 0.00 min
Lab File: BE094420.D
Acq: 16 Oct 2017 16:53

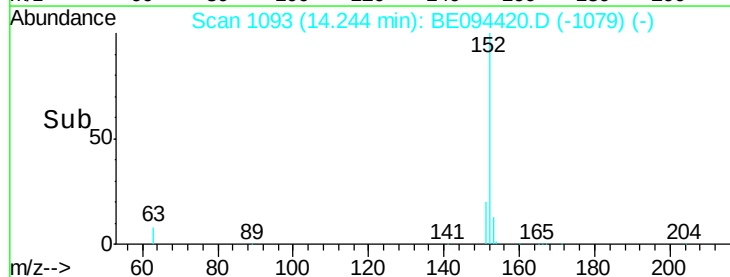
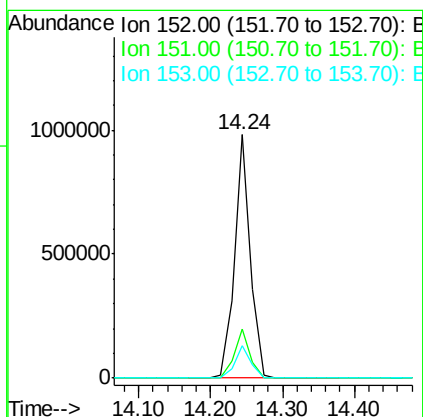
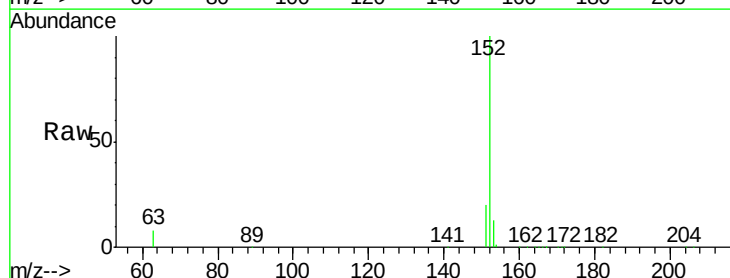
Instrument :
BNA_E
ClientSampleId :
PT-BN-WP

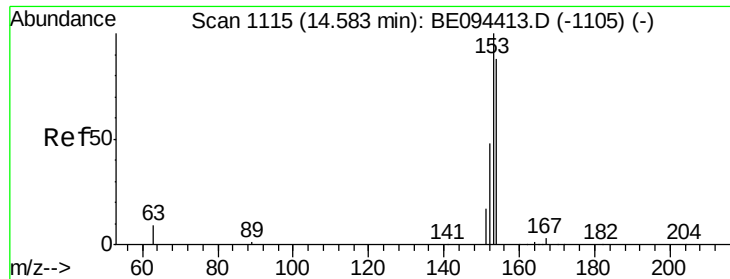
Tgt Ion:172 Resp: 1533840
Ion Ratio Lower Upper
172 100
171 35.4 29.9 44.9
170 23.2 21.8 32.8



#16
Acenaphthylene
Concen: 69.984 ng
RT: 14.24 min Scan# 1093
Delta R.T. 0.00 min
Lab File: BE094420.D
Acq: 16 Oct 2017 16:53

Tgt Ion:152 Resp: 1495294
Ion Ratio Lower Upper
152 100
151 20.1 15.7 23.5
153 13.4 10.5 15.7





#17

Acenaphthene

Concen: 65.782 ng

RT: 14.58 min Scan# 1116

Delta R.T. 0.00 min

Lab File: BE094420.D

Acq: 16 Oct 2017 16:53

Instrument :

BNA_E

ClientSampleId :

PT-BN-WP

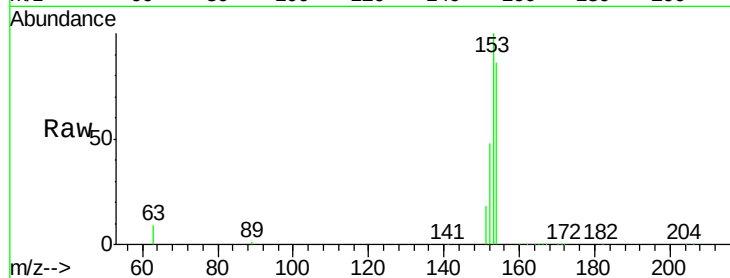
Tgt Ion:154 Resp: 884975

Ion Ratio Lower Upper

154 100

153 114.3 89.2 133.8

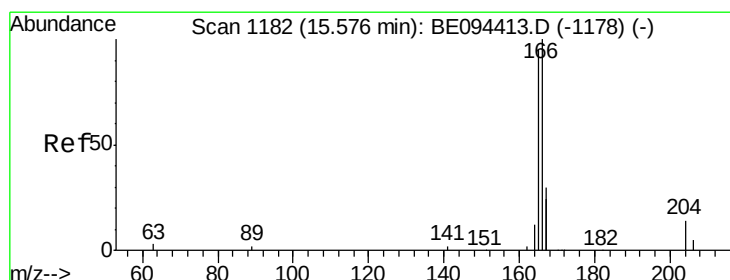
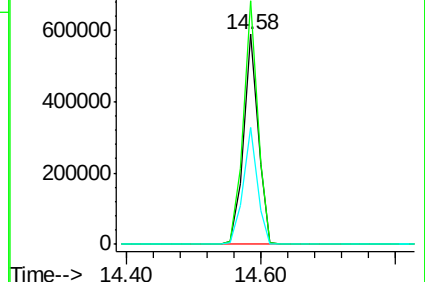
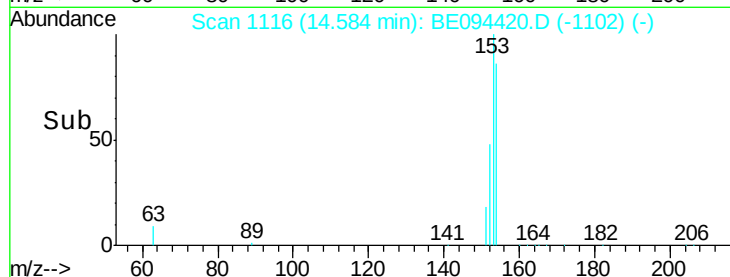
152 54.4 42.0 63.0



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: 98.113 ng

RT: 15.58 min Scan# 1183

Delta R.T. 0.00 min

Lab File: BE094420.D

Acq: 16 Oct 2017 16:53

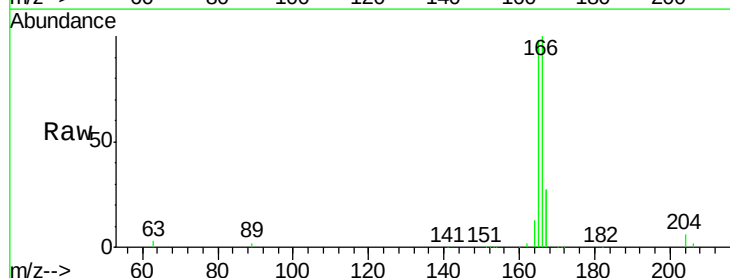
Tgt Ion:166 Resp: 1702259

Ion Ratio Lower Upper

166 100

165 99.0 77.8 116.6

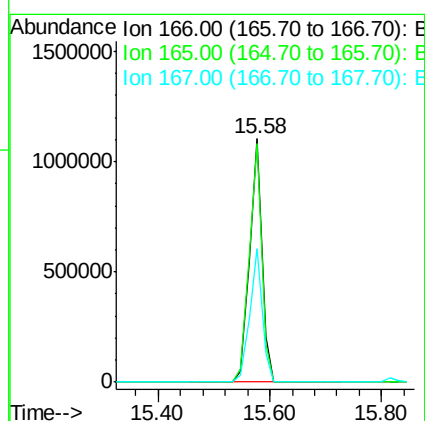
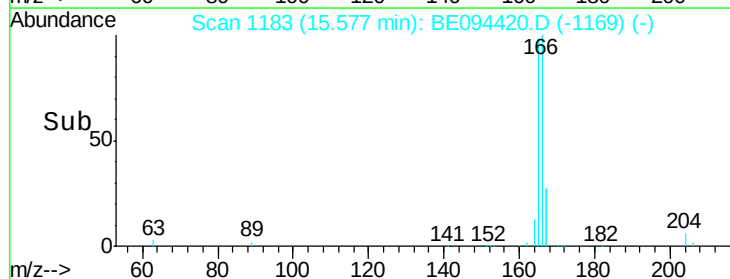
167 55.0 42.4 63.6

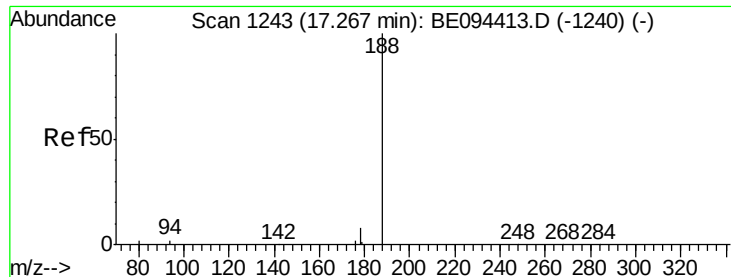


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

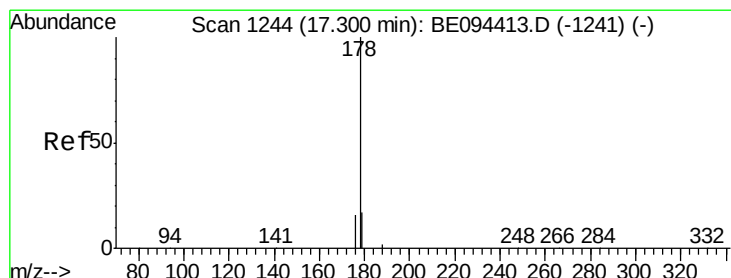
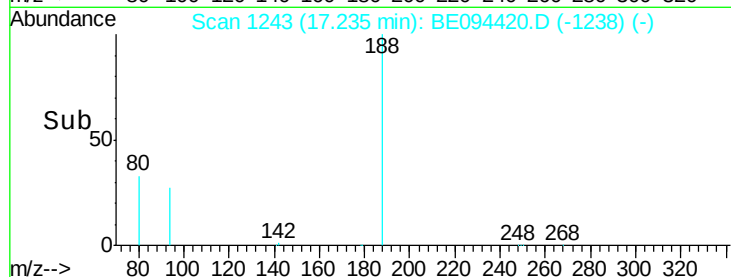
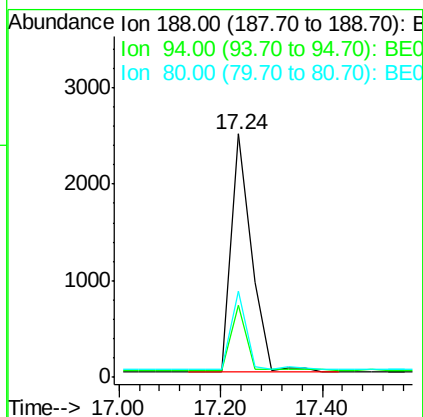
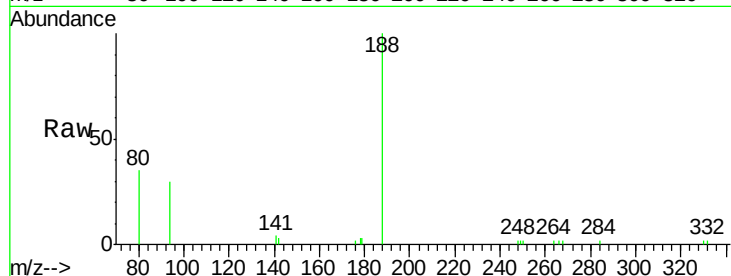




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.24 min Scan# 1243
Delta R.T. -0.03 min
Lab File: BE094420.D
Acq: 16 Oct 2017 16:53

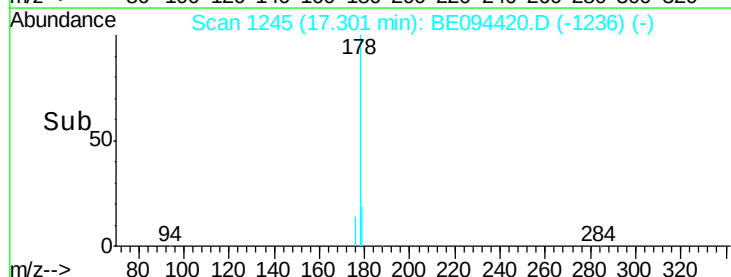
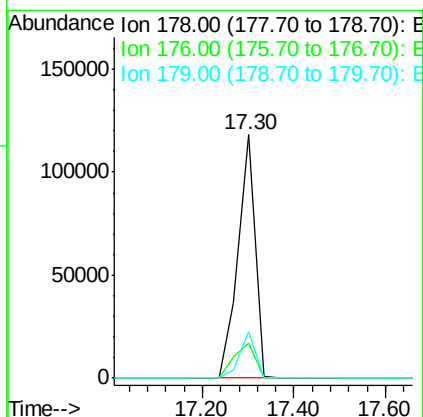
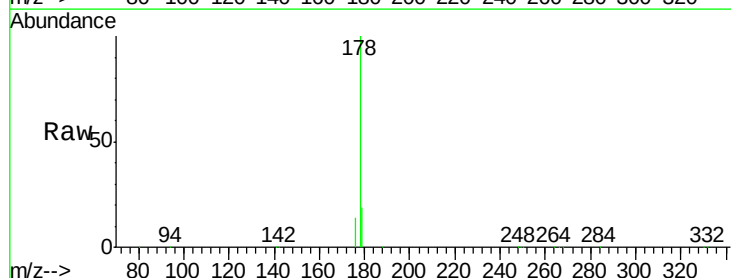
Instrument :
BNA_E
ClientSampleId :
PT-BN-WP

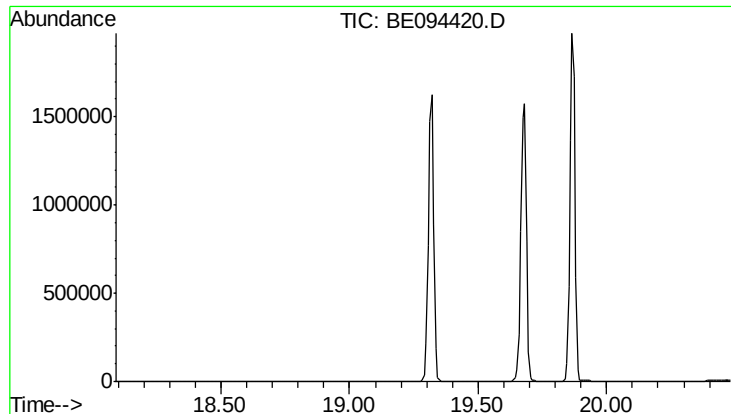
Tgt Ion:188 Resp: 6841
Ion Ratio Lower Upper
188 100
94 29.7 3.9 5.9#
80 35.3 3.6 5.4#



#23
Phenanthrene
Concen: 11.334 ng
RT: 17.30 min Scan# 1245
Delta R.T. 0.00 min
Lab File: BE094420.D
Acq: 16 Oct 2017 16:53

Tgt Ion:178 Resp: 305199
Ion Ratio Lower Upper
178 100
176 17.5 15.1 22.7
179 17.2 11.8 17.6

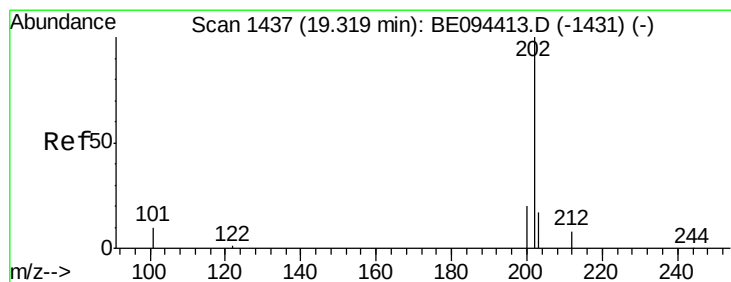
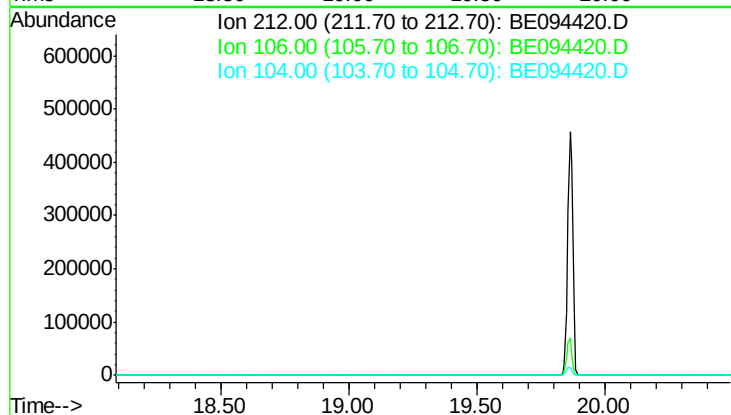




#25
 Fluoranthene-d10
 Concen: 0.000 ng
 Expected RT: 19.29 min
 Lab File: BE094420.D
 Acq: 16 Oct 2017 16:53

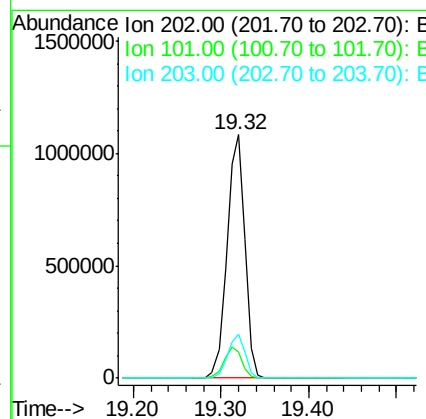
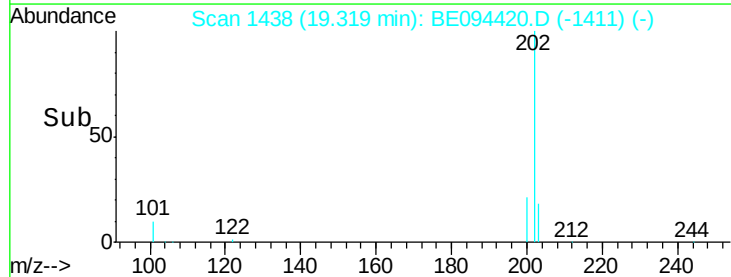
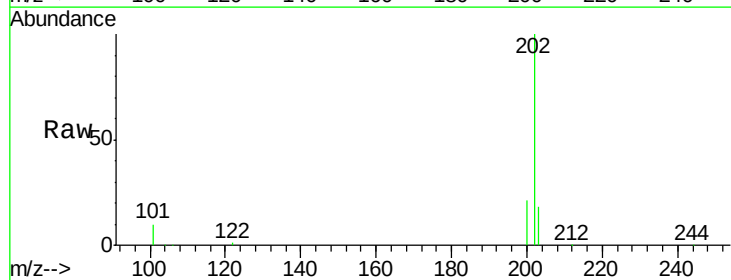
Instrument :
 BNA_E
 ClientSampleId :
 PT-BN-WP

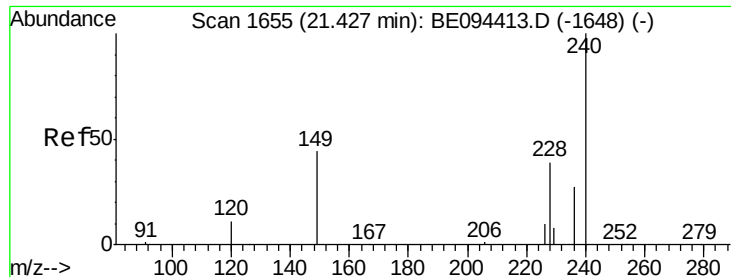
Tgt Ion: 212
 Sig Exp Ratio
 212 100
 106 3.5
 104 2.0



#26
 Fluoranthene
 Concen: 45.847 ng
 RT: 19.32 min Scan# 1438
 Delta R.T. 0.00 min
 Lab File: BE094420.D
 Acq: 16 Oct 2017 16:53

Tgt Ion: 202 Resp: 1531914
 Ion Ratio Lower Upper
 202 100
 101 12.5 9.8 14.8
 203 17.8 13.7 20.5





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.43 min Scan# 1656

Delta R.T. -0.00 min

Lab File: BE094420.D

Acq: 16 Oct 2017 16:53

Instrument :

BNA_E

ClientSampleId :

PT-BN-WP

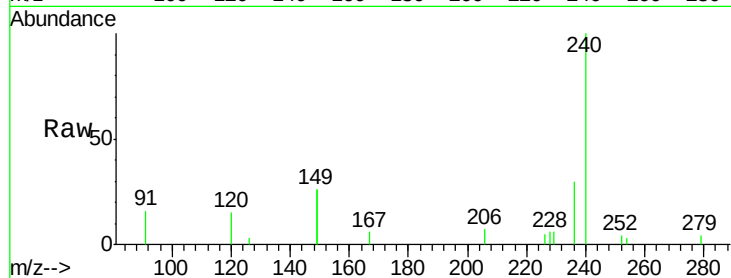
Tgt Ion:240 Resp: 9050

Ion Ratio Lower Upper

240 100

120 14.8 5.5 8.3#

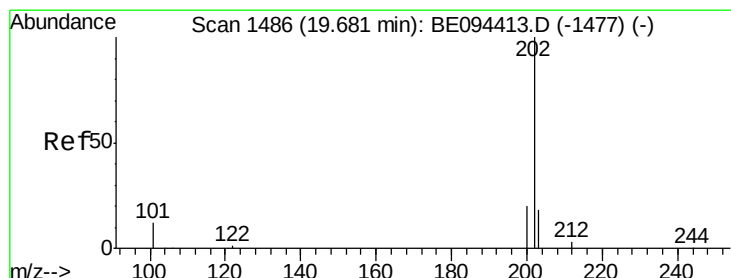
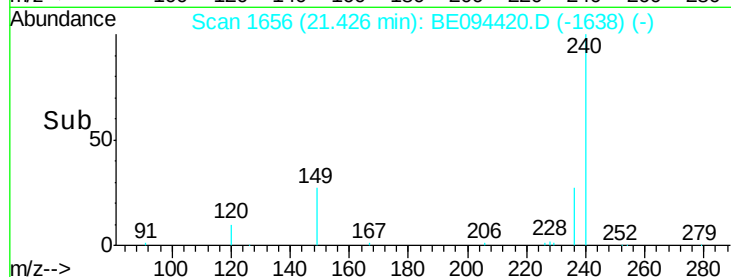
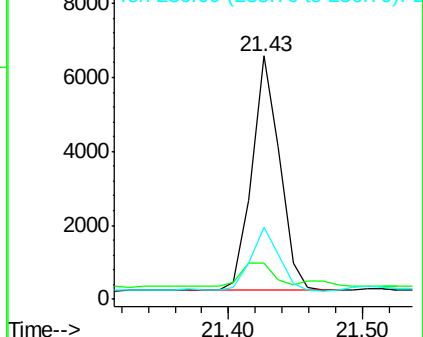
236 29.6 20.7 31.1



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: 44.059 ng

RT: 19.68 min Scan# 1487

Delta R.T. 0.00 min

Lab File: BE094420.D

Acq: 16 Oct 2017 16:53

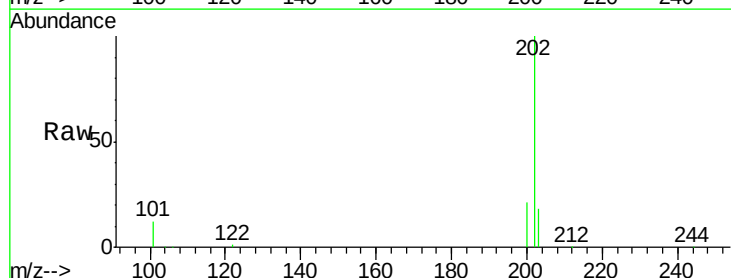
Tgt Ion:202 Resp: 1504421

Ion Ratio Lower Upper

202 100

200 21.5 16.6 25.0

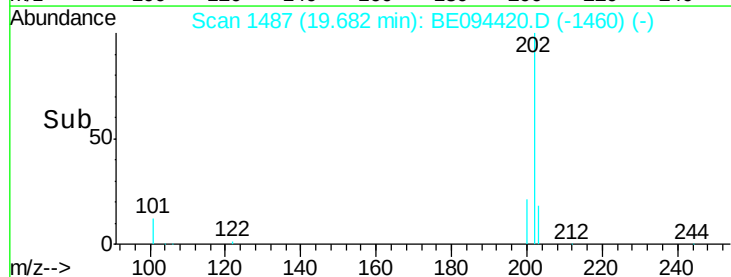
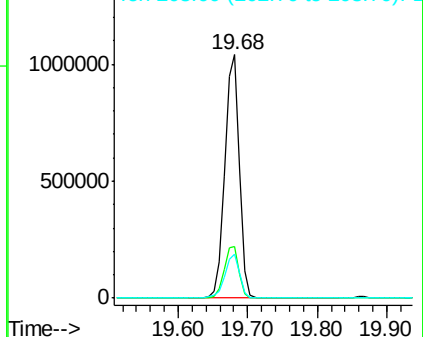
203 18.5 13.8 20.8

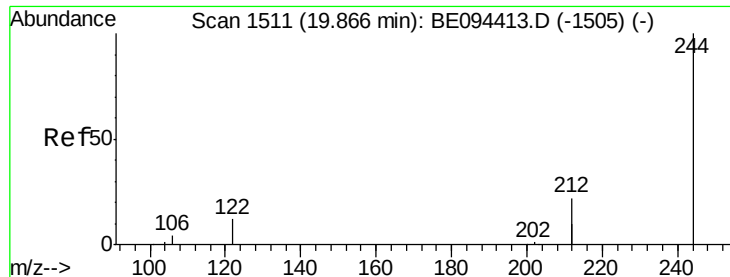


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 98.281 ng

RT: 19.87 min Scan# 1512

Delta R.T. 0.00 min

Lab File: BE094420.D

Acq: 16 Oct 2017 16:53

Instrument :

BNA_E

ClientSampleId :

PT-BN-WP

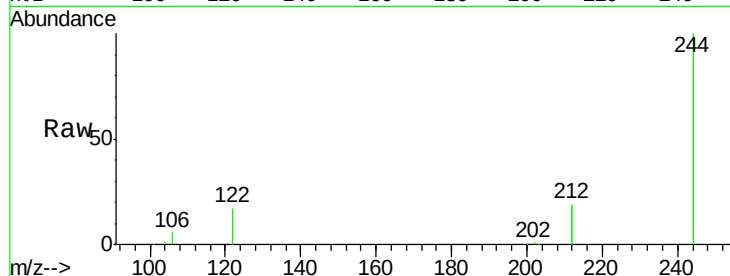
Tgt Ion:244 Resp: 1794728

Ion Ratio Lower Upper

244 100

212 37.6 25.4 38.0

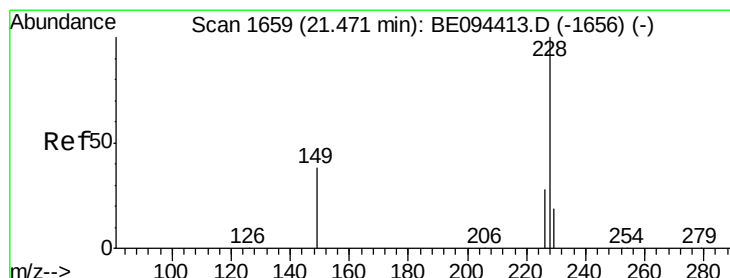
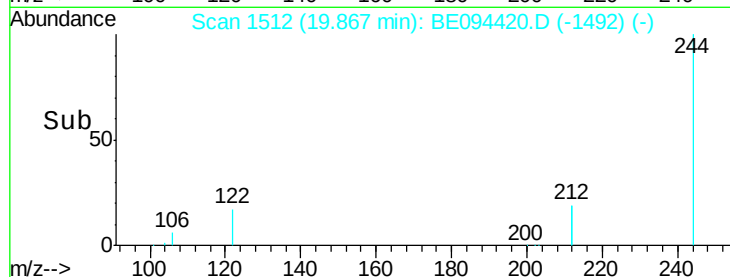
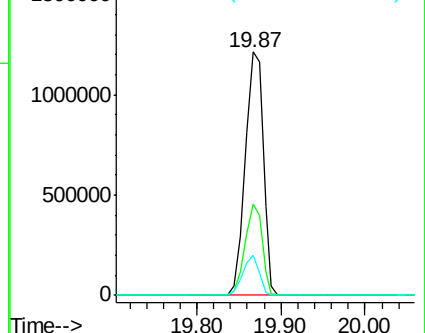
122 16.7 8.1 12.1#



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



#31

Chrysene

Concen: 64.103 ng

RT: 21.47 min Scan# 1660

Delta R.T. -0.00 min

Lab File: BE094420.D

Acq: 16 Oct 2017 16:53

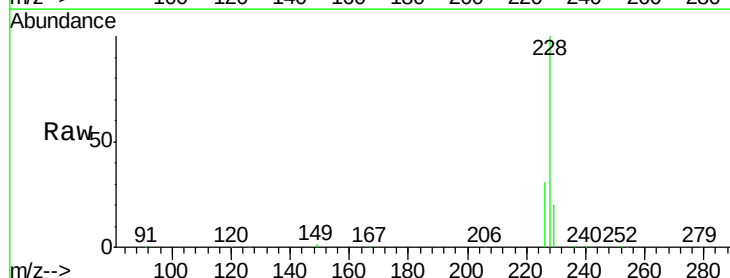
Tgt Ion:228 Resp: 1931427

Ion Ratio Lower Upper

228 100

226 30.8 40.0 60.0#

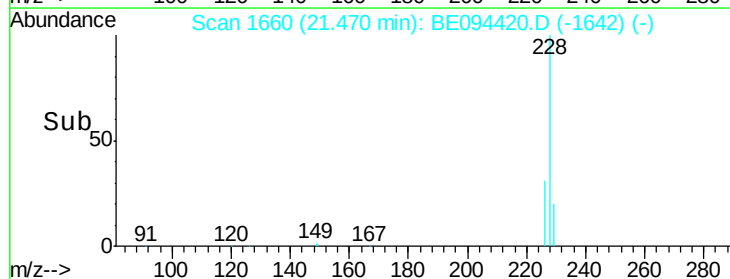
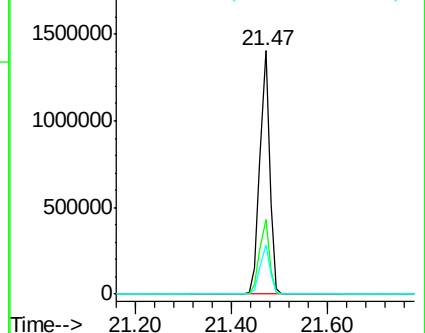
229 20.4 40.0 60.0#

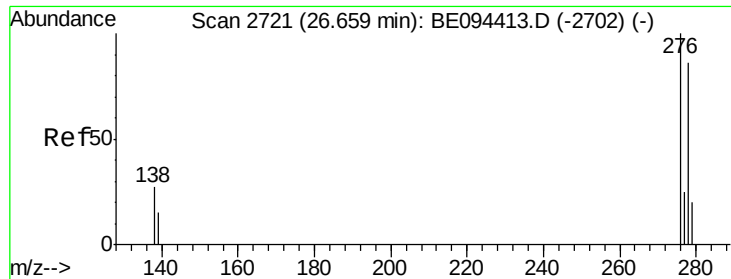


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 94.824 ng

RT: 26.70 min Scan# 2731

Delta R.T. 0.04 min

Lab File: BE094420.D

Acq: 16 Oct 2017 16:53

Instrument :

BNA_E

ClientSampleId :

PT-BN-WP

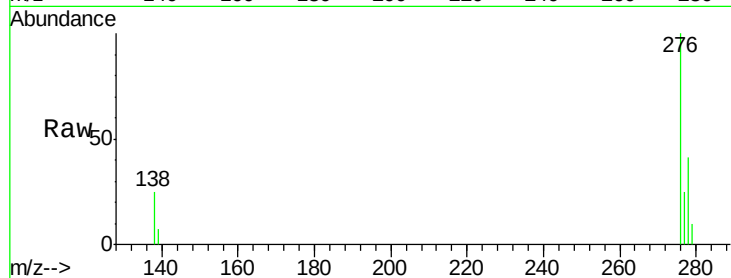
Tgt Ion:276 Resp: 2877585

Ion Ratio Lower Upper

276 100

138 24.5 22.5 33.7

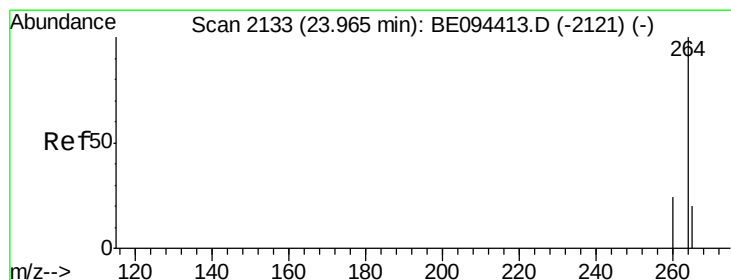
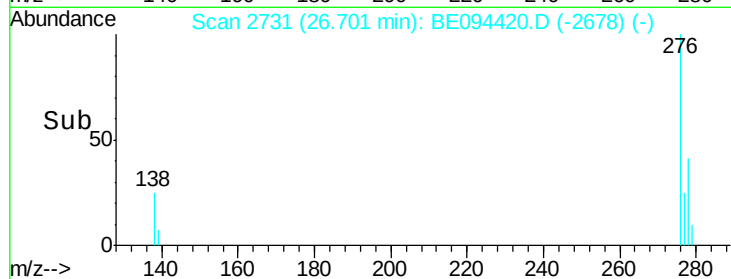
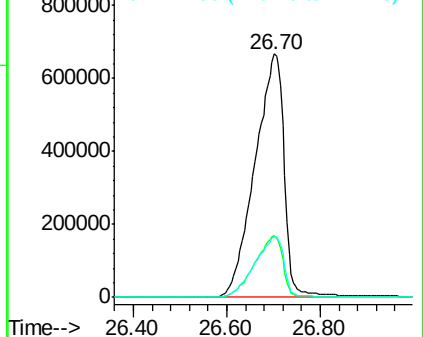
277 25.0 19.9 29.9



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: 23.96 min Scan# 2133

Delta R.T. -0.00 min

Lab File: BE094420.D

Acq: 16 Oct 2017 16:53

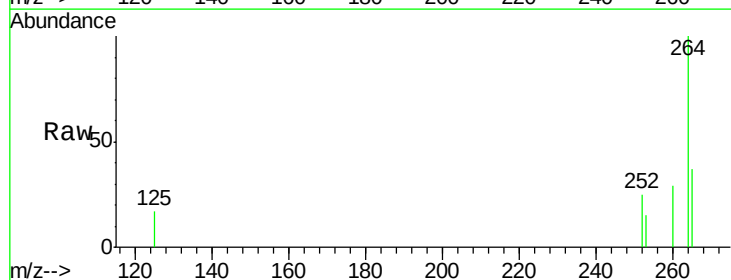
Tgt Ion:264 Resp: 8825

Ion Ratio Lower Upper

264 100

260 28.9 20.5 30.7

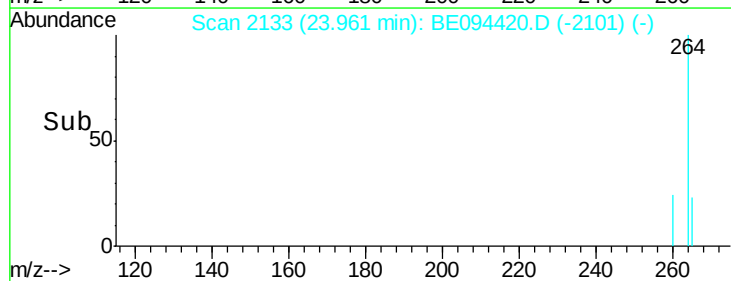
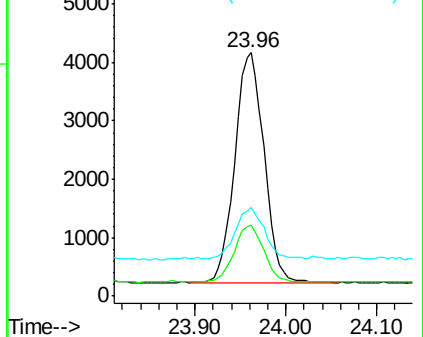
265 36.5 22.8 34.2#

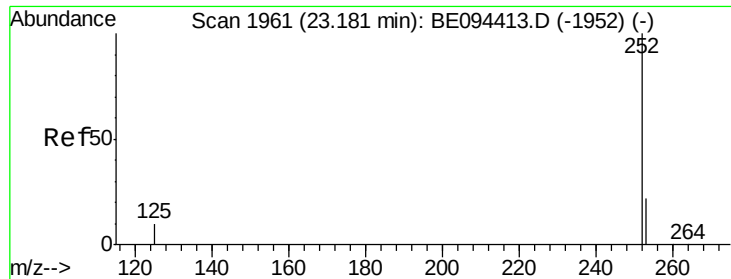


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 125.527 ng

RT: 23.21 min Scan# 1967

Delta R.T. 0.02 min

Lab File: BE094420.D

Acq: 16 Oct 2017 16:53

Instrument :

BNA_E

ClientSampleId :

PT-BN-WP

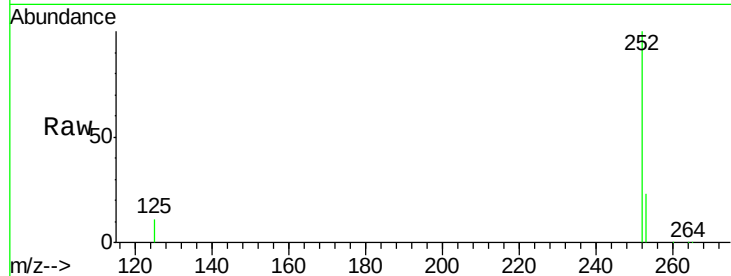
Tgt Ion:252 Resp: 3757569

Ion Ratio Lower Upper

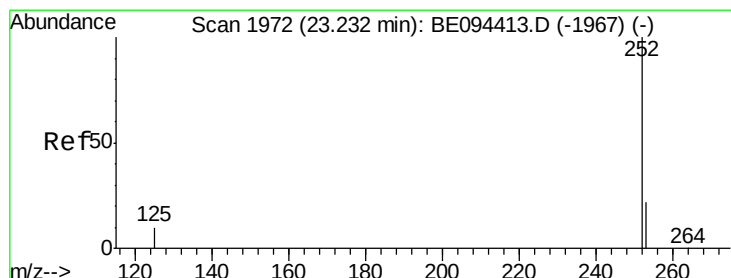
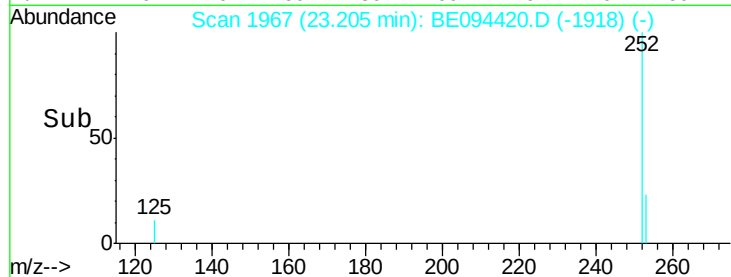
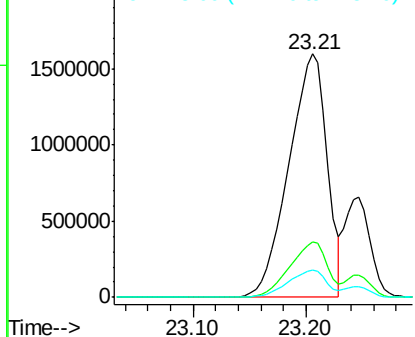
252 100

253 22.9 48.0 72.0#

125 11.2 56.0 84.0#



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



#36

Benzo(k)fluoranthene

Concen: 35.218 ng

RT: 23.25 min Scan# 1976

Delta R.T. 0.01 min

Lab File: BE094420.D

Acq: 16 Oct 2017 16:53

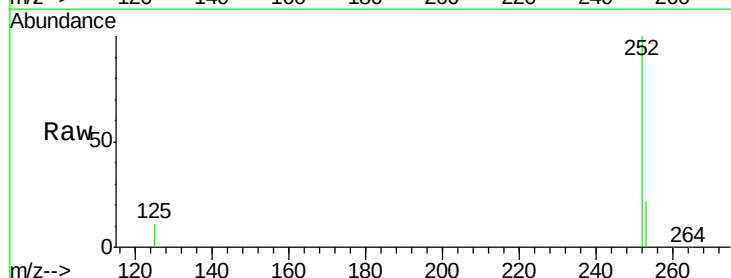
Tgt Ion:252 Resp: 1038693

Ion Ratio Lower Upper

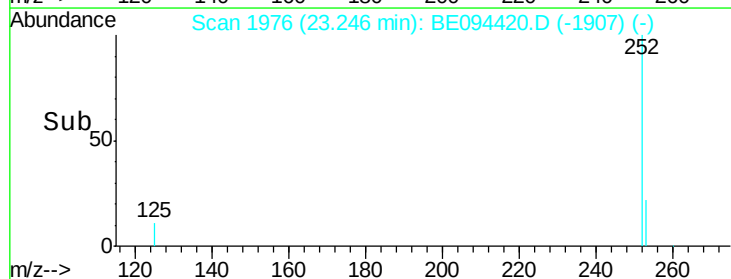
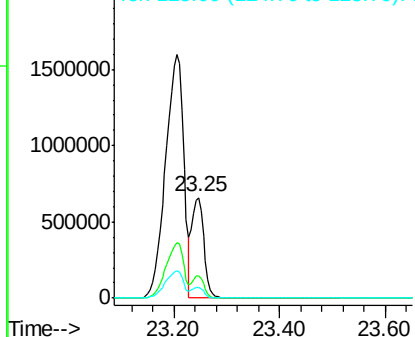
252 100

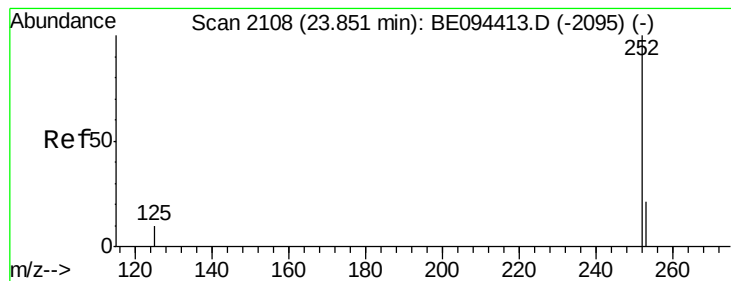
253 22.4 48.0 72.0#

125 11.1 56.0 84.0#



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: 28.717 ng

RT: 23.85 min Scan# 2109

Delta R.T. 0.00 min

Lab File: BE094420.D

Acq: 16 Oct 2017 16:53

Instrument :

BNA_E

ClientSampleId :

PT-BN-WP

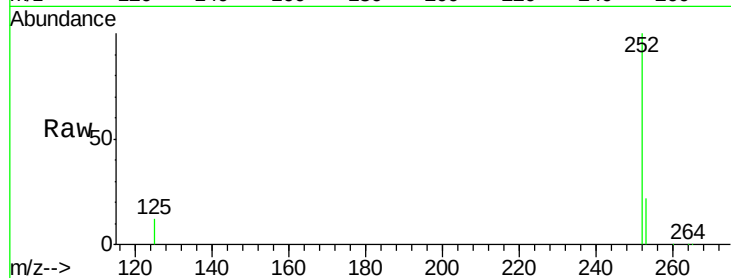
Tgt Ion: 252 Resp: 807943

Ion Ratio Lower Upper

252 100

253 22.2 52.0 78.0#

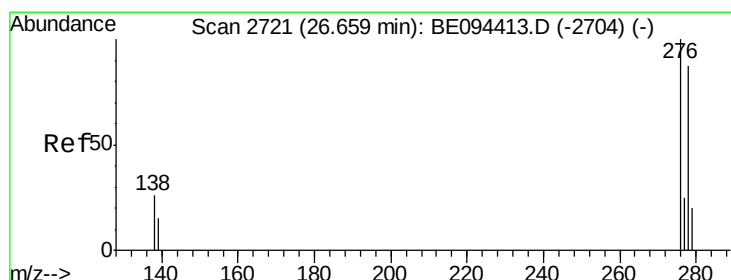
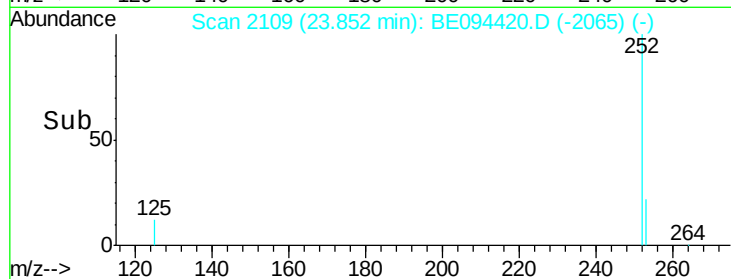
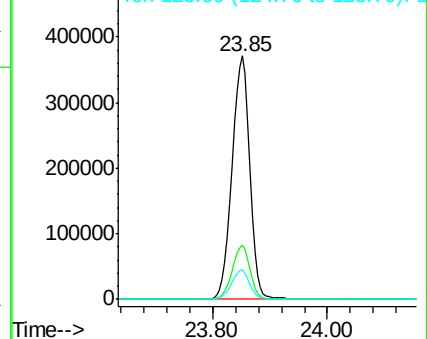
125 12.2 68.0 102.0#



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: 34.926 ng

RT: 26.70 min Scan# 2730

Delta R.T. 0.04 min

Lab File: BE094420.D

Acq: 16 Oct 2017 16:53

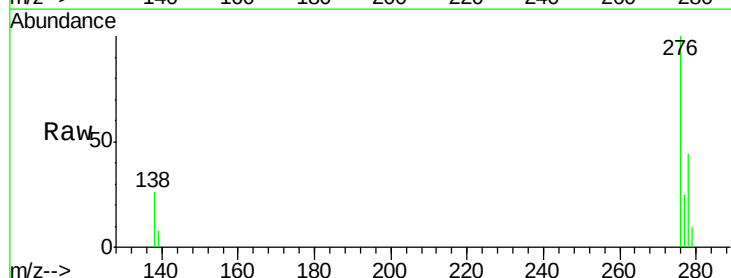
Tgt Ion: 278 Resp: 930160

Ion Ratio Lower Upper

278 100

139 18.4 56.0 84.0#

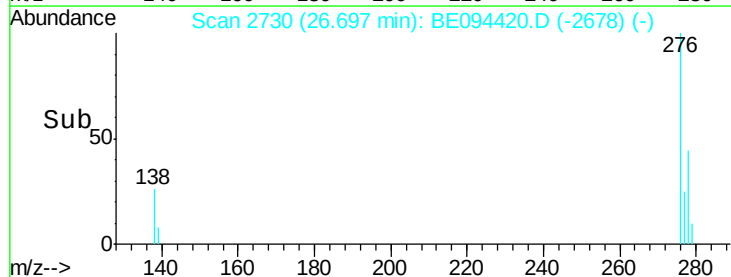
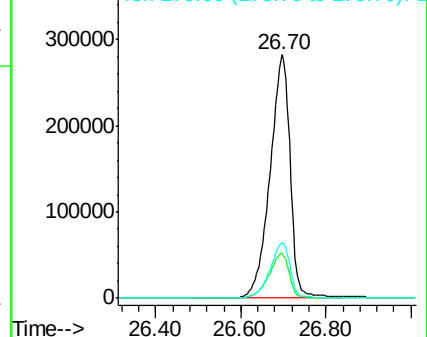
279 22.9 52.0 78.0#

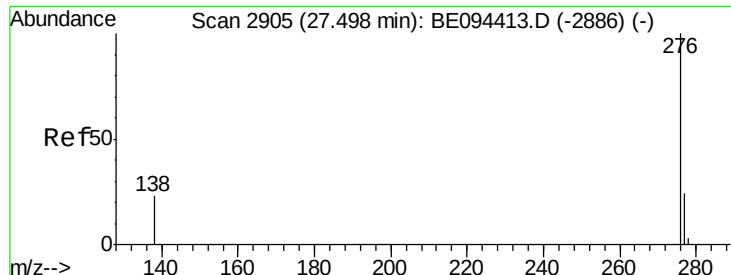


Abundance Ion 278.00 (277.70 to 278.70): E

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: 122.401 ng

RT: 27.55 min Scan# 2917

Delta R.T. 0.05 min

Lab File: BE094420.D

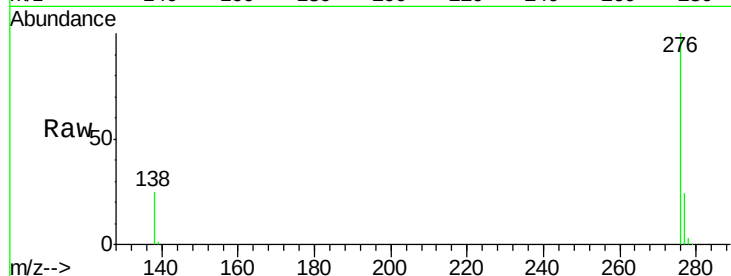
Acq: 16 Oct 2017 16:53

Instrument :

BNA_E

ClientSampleId :

PT-BN-WP



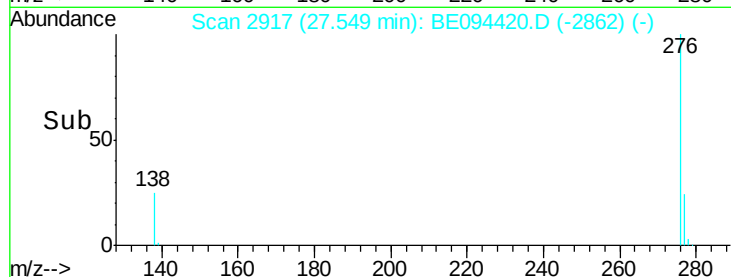
Tgt Ion:276 Resp: 3135411

Ion Ratio Lower Upper

276 100

277 23.7 52.0 78.0#

138 24.8 44.0 66.0#



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

