

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE101617\
 Data File : BE094421.D
 Acq On : 16 Oct 2017 17:40
 Operator : SJ/JU
 Sample : I5266-05DL 100X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PT-BN-WPDL

Quant Time: Oct 16 20:09:34 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	7.92	152	1206	0.40	ng	0.00
7) Naphthalene-d8	10.70	136	6489	0.40	ng	0.00
13) Acenaphthene-d10	14.52	164	3821	0.40	ng	0.00
19) Phenanthrene-d10	17.27	188	7367	0.40	ng	0.00
27) Chrysene-d12	21.43	240	9184	0.40	ng	0.00
34) Perylene-d12	23.96	264	8750	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.51	112	6214	1.52	ng	0.00
5) Phenol-d6	7.11	99	9700	1.53	ng	-0.02
8) Nitrobenzene-d5	9.08	82	6212	1.10	ng	0.00
11) 2-Methylnaphthalene-d10	0.00	152	0d	0.00	ng	
14) 2,4,6-Tribromophenol	16.03	330	2274	1.56	ng	0.00
15) 2-Fluorobiphenyl	13.15	172	15314	1.12	ng	0.00
25) Fluoranthene-d10	0.00	212	0d	0.00	ng	
29) Terphenyl-d14	19.87	244	21138	1.14	ng	0.00

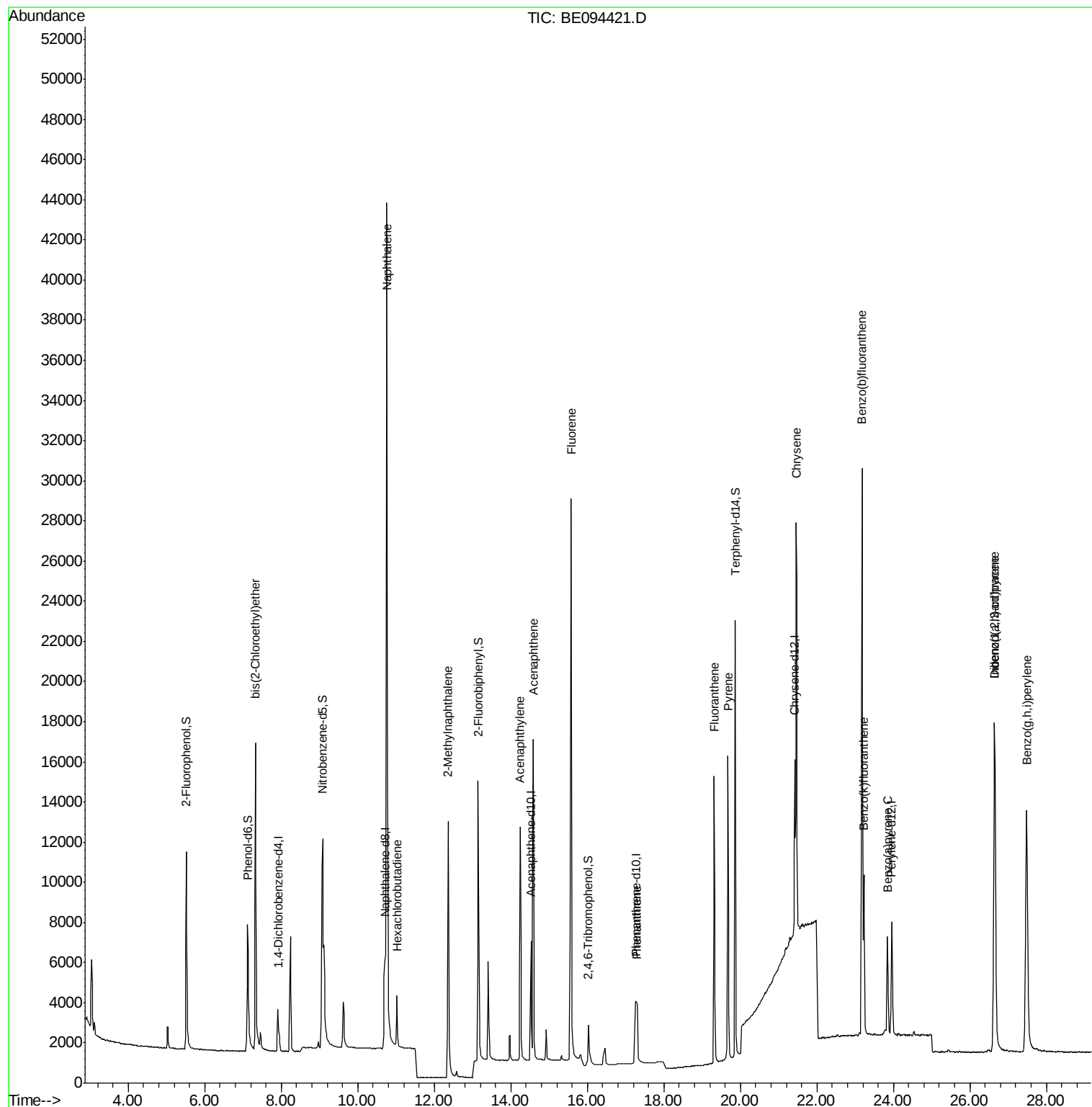
Target Compounds				Qvalue		
6) bis(2-Chloroethyl)ether	7.33	93	5967	1.269	ng	97
9) Naphthalene	10.76	128	92081	1.269	ng	99
10) Hexachlorobutadiene	11.02	225	2017	0.695	ng	97
12) 2-Methylnaphthalene	12.36	142	11914	0.996	ng	98
16) Acenaphthylene	14.24	152	14399	0.695	ng	100
17) Acenaphthene	14.58	154	9038	0.693	ng	99
18) Fluorene	15.58	166	17452	1.037	ng	99
23) Phenanthrene	17.30	178	4680	0.161	ng	# 94
26) Fluoranthene	19.32	202	15756	0.438	ng	99
28) Pyrene	19.67	202	15533	0.448	ng	98
31) Chrysene	21.46	228	22145	0.724	ng	# 66
33) Indeno(1,2,3-cd)pyrene	26.65	276	30175	0.980	ng	94
35) Benzo(b)fluoranthene	23.18	252	42439	1.430	ng	# 41
36) Benzo(k)fluoranthene	23.22	252	11100	0.380	ng	# 47
37) Benzo(a)pyrene	23.85	252	8158	0.292	ng	# 46
38) Dibenzo(a,h)anthracene	26.65	278	9532	0.361	ng	# 53
39) Benzo(g,h,i)perylene	27.48	276	32753	1.290	ng	# 56

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

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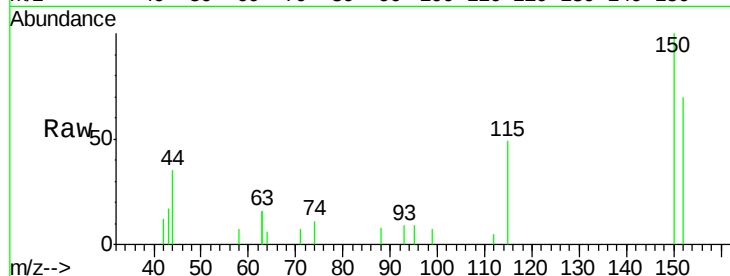


#1

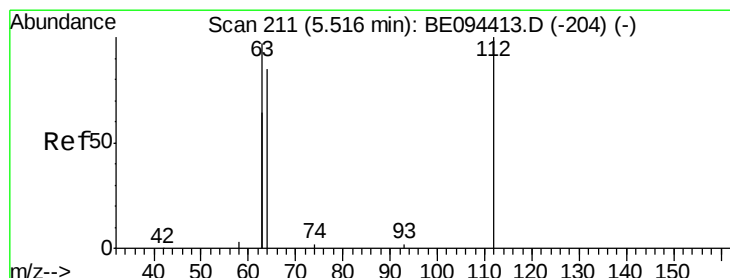
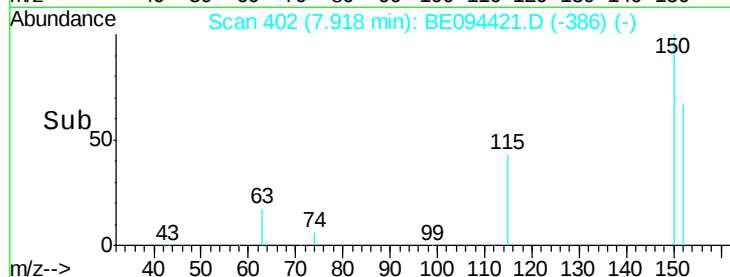
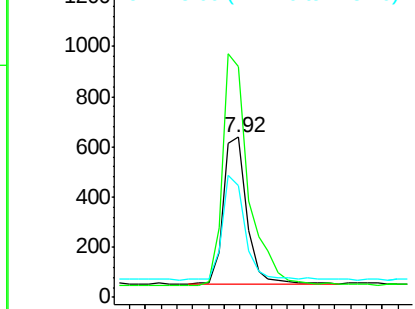
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.92 min Scan# 402
Delta R.T. -0.00 min
Lab File: BE094421.D
Acq: 16 Oct 2017 17:40

Instrument :
BNA_E
ClientSampleId :
PT-BN-WPDL

Tgt Ion:152 Resp: 1206
Ion Ratio Lower Upper
152 100
150 143.7 117.2 175.8
115 70.1 57.0 85.6



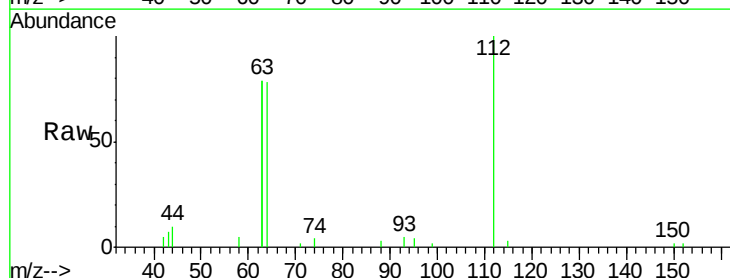
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



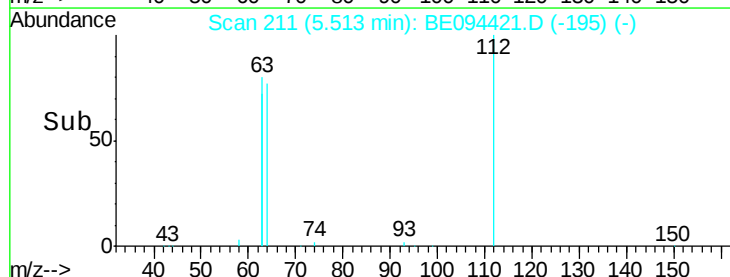
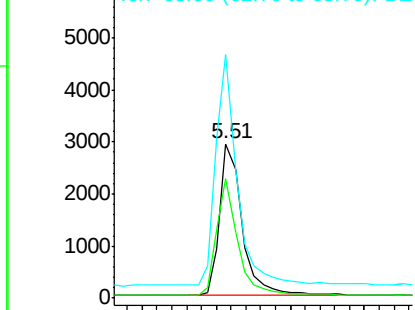
#4

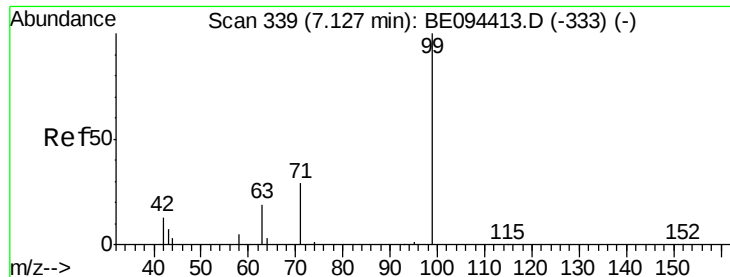
2-Fluorophenol
Concen: 1.525 ng
RT: 5.51 min Scan# 211
Delta R.T. -0.00 min
Lab File: BE094421.D
Acq: 16 Oct 2017 17:40

Tgt Ion:112 Resp: 6214
Ion Ratio Lower Upper
112 100
64 71.8 60.1 90.1
63 143.2 116.8 175.2



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 1.526 ng

RT: 7.11 min Scan# 338

Delta R.T. -0.02 min

Lab File: BE094421.D

Acq: 16 Oct 2017 17:40

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

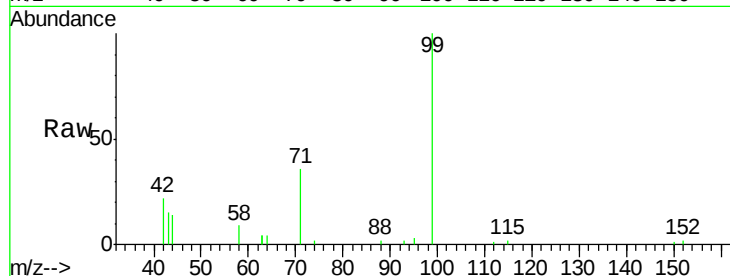
Tgt Ion: 99 Resp: 9700

Ion Ratio Lower Upper

99 100

42 19.3 20.2 30.2#

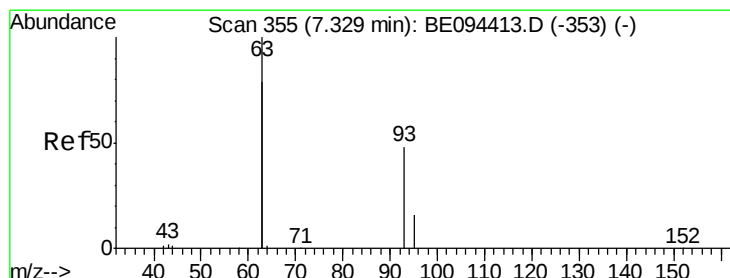
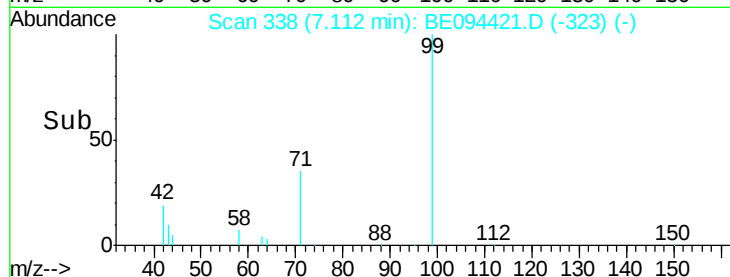
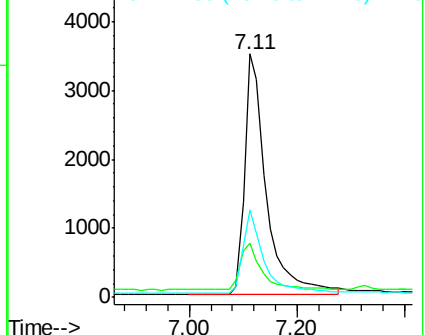
71 33.3 28.4 42.6



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: 1.269 ng

RT: 7.33 min Scan# 355

Delta R.T. -0.00 min

Lab File: BE094421.D

Acq: 16 Oct 2017 17:40

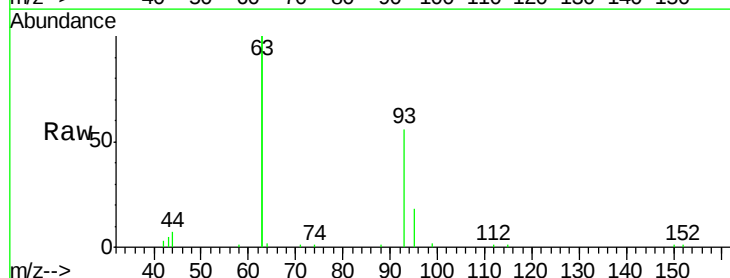
Tgt Ion: 93 Resp: 5967

Ion Ratio Lower Upper

93 100

63 337.4 275.3 412.9

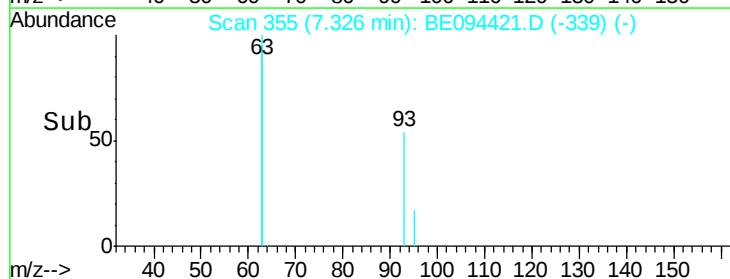
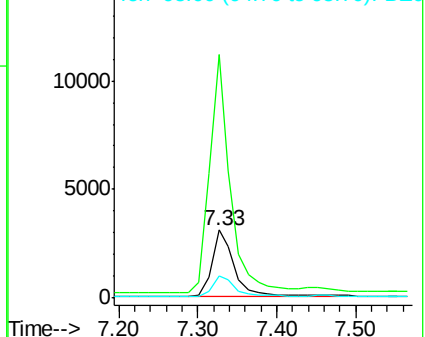
95 32.1 25.2 37.8

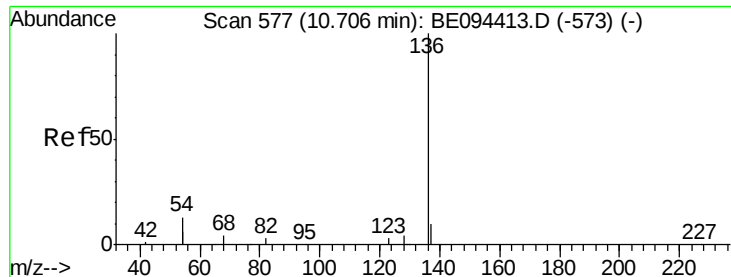


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: 10.70 min Scan# 577

Delta R.T. -0.00 min

Lab File: BE094421.D

Acq: 16 Oct 2017 17:40

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

Tgt Ion:136 Resp: 6489

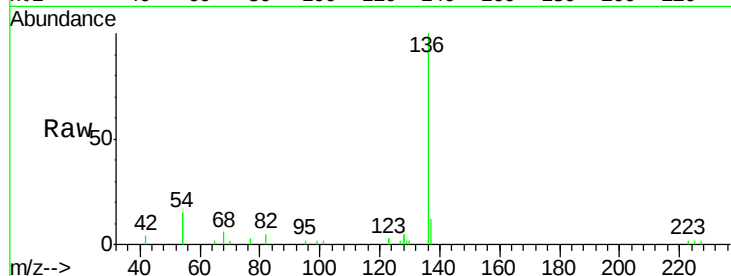
Ion Ratio Lower Upper

136 100

137 12.0 9.5 14.3

54 29.2 29.1 43.7

68 6.4 6.2 9.2

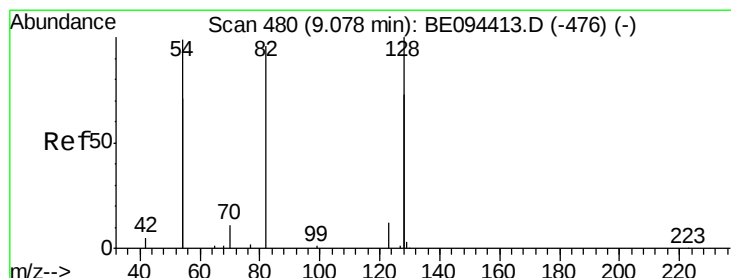
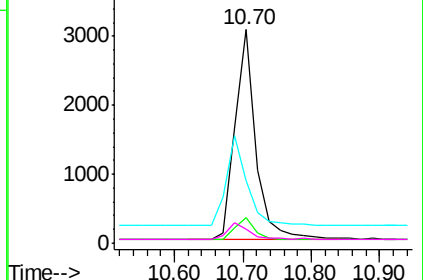
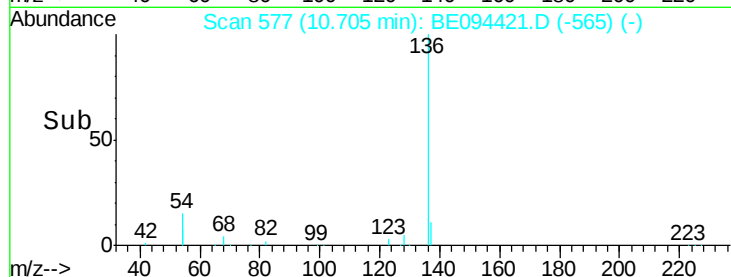


Abundance Ion 136.00 (135.70 to 136.70): E

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: 1.102 ng

RT: 9.08 min Scan# 480

Delta R.T. -0.00 min

Lab File: BE094421.D

Acq: 16 Oct 2017 17:40

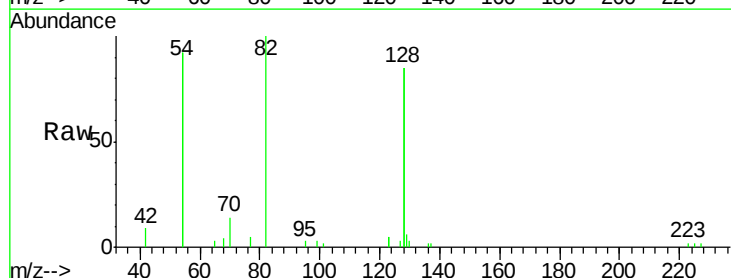
Tgt Ion: 82 Resp: 6212

Ion Ratio Lower Upper

82 100

128 170.5 150.0 225.0

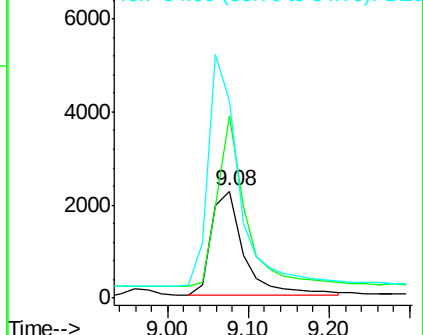
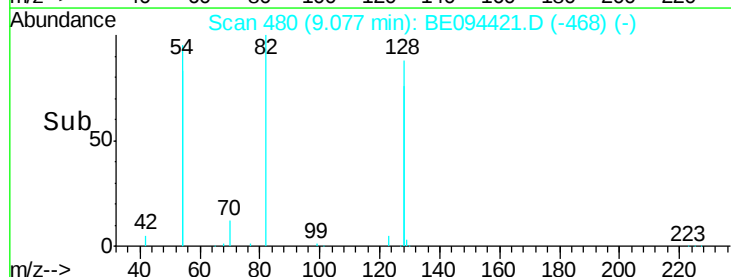
54 184.4 154.2 231.4

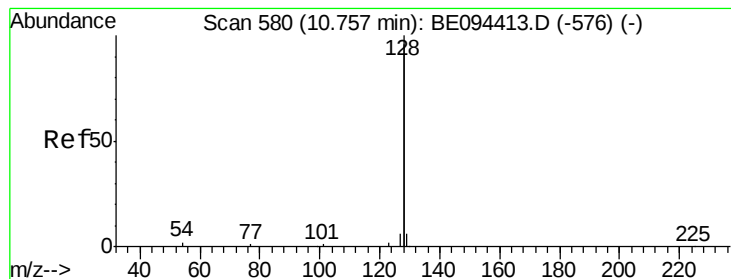


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 1.269 ng

RT: 10.76 min Scan# 580

Delta R.T. -0.00 min

Lab File: BE094421.D

Acq: 16 Oct 2017 17:40

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

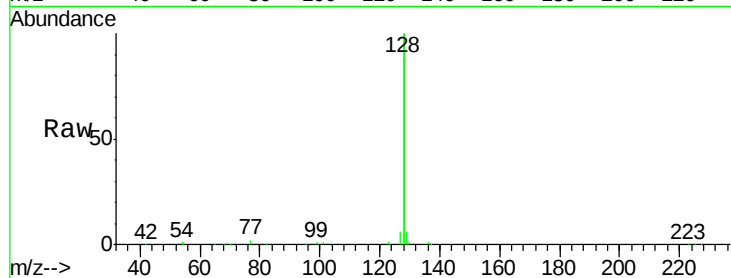
Tgt Ion:128 Resp: 92081

Ion Ratio Lower Upper

128 100

129 2.9 2.6 3.8

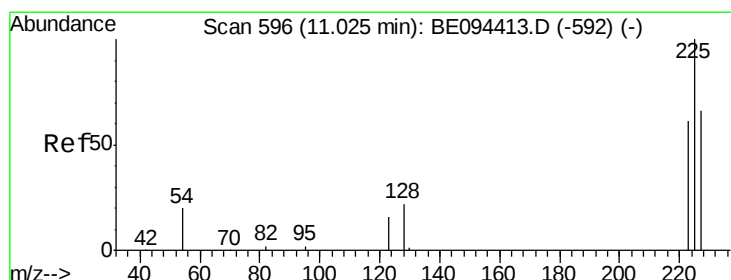
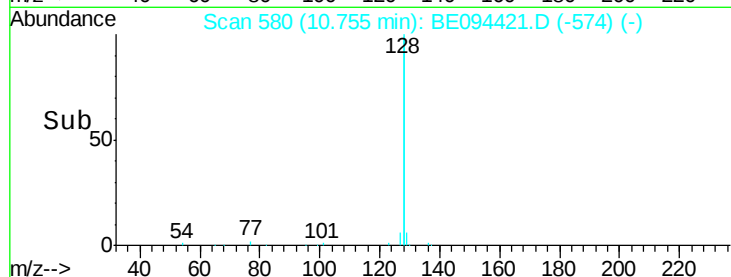
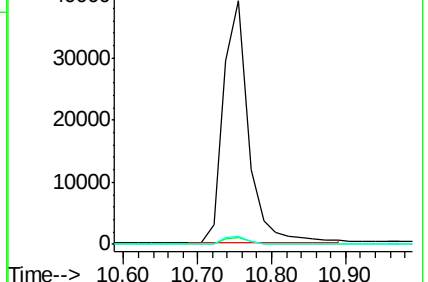
127 3.2 2.8 4.2



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: 0.695 ng

RT: 11.02 min Scan# 596

Delta R.T. -0.00 min

Lab File: BE094421.D

Acq: 16 Oct 2017 17:40

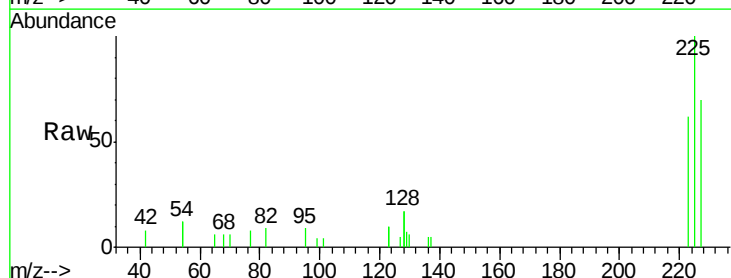
Tgt Ion:225 Resp: 2017

Ion Ratio Lower Upper

225 100

223 62.3 53.0 79.6

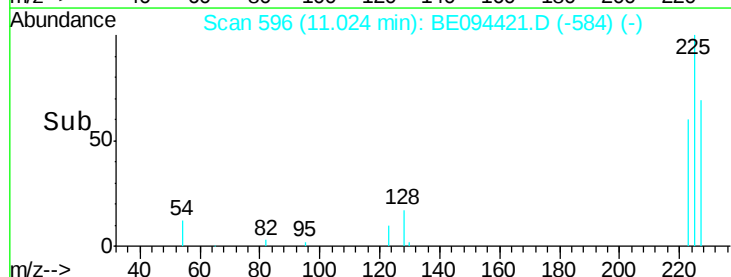
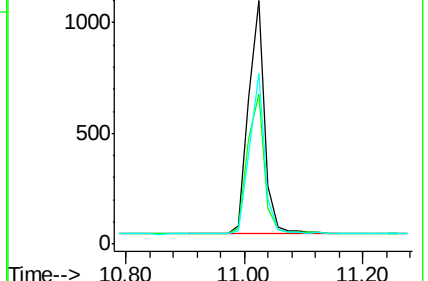
227 65.3 51.4 77.2

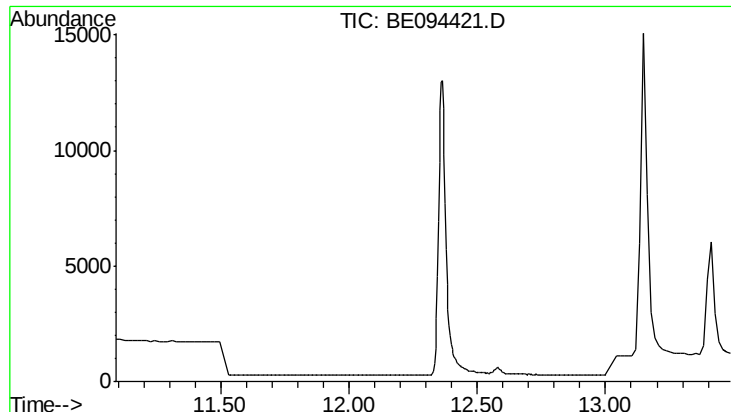


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

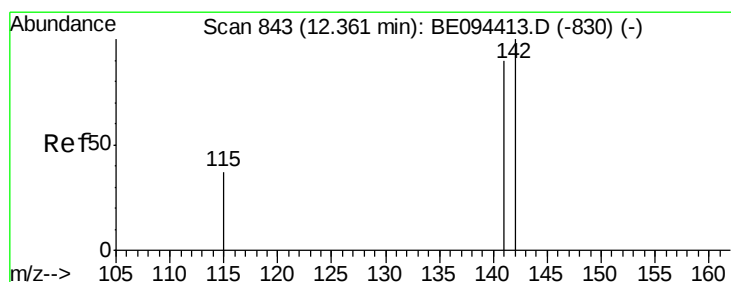
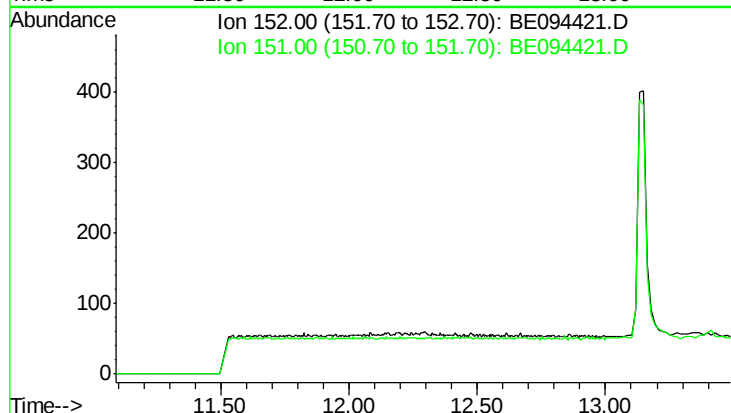




#11
 2-Methylnaphthalene-d10
 Concen: 0.000 ng
 Expected RT: 12.29 min
 Lab File: BE094421.D
 Acq: 16 Oct 2017 17:40

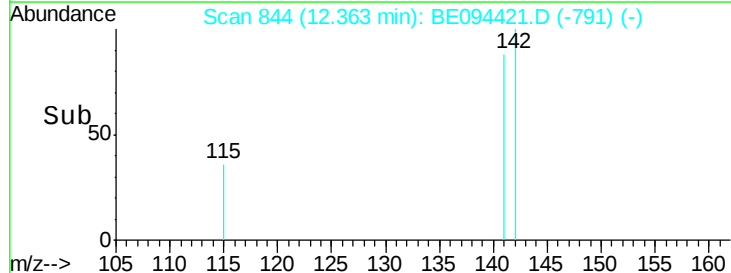
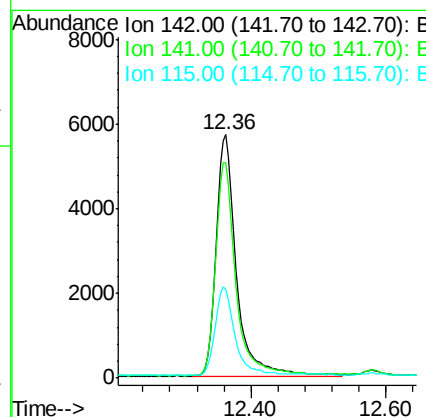
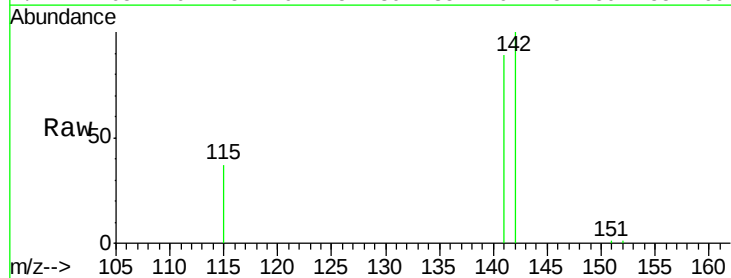
Instrument :
 BNA_E
 ClientSampleId :
 PT-BN-WPDL

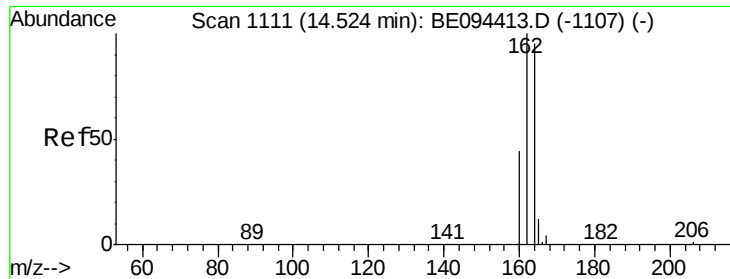
Tgt Ion: 152
 Sig Exp Ratio
 152 100
 151 19.2



#12
 2-Methylnaphthalene
 Concen: 0.996 ng
 RT: 12.36 min Scan# 844
 Delta R.T. 0.00 min
 Lab File: BE094421.D
 Acq: 16 Oct 2017 17:40

Tgt Ion: 142 Resp: 11914
 Ion Ratio Lower Upper
 142 100
 141 88.5 70.4 105.6
 115 36.6 31.7 47.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.52 min Scan# 1112

Delta R.T. 0.00 min

Lab File: BE094421.D

Acq: 16 Oct 2017 17:40

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

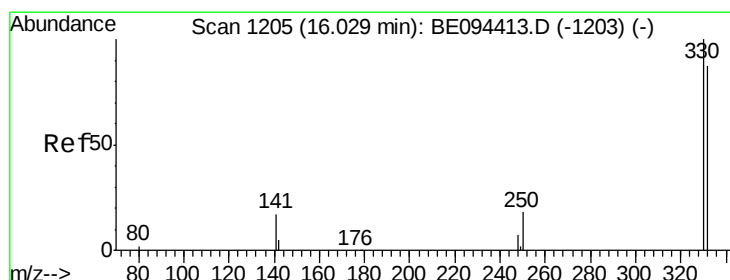
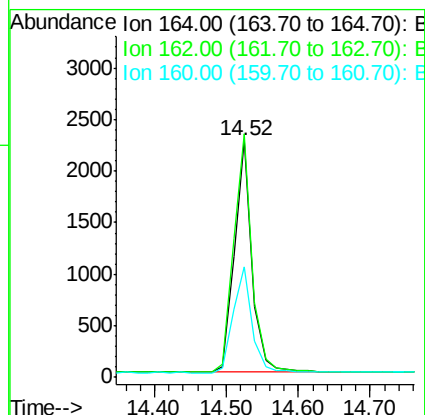
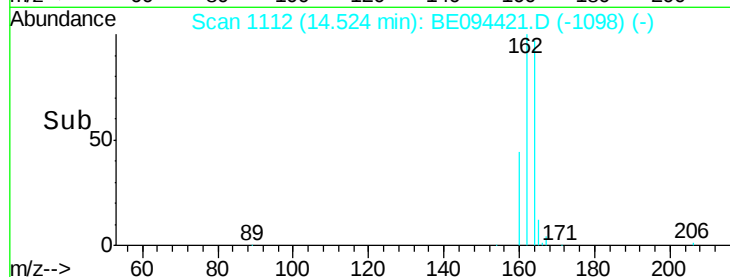
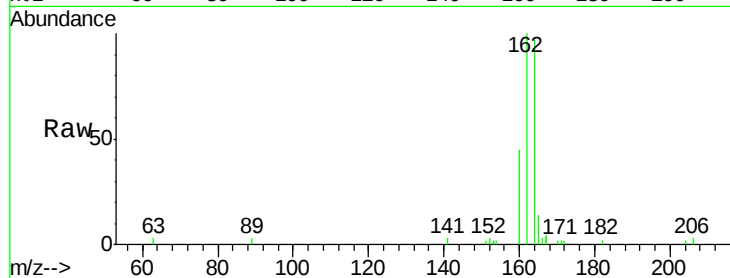
Tgt Ion:164 Resp: 3821

Ion Ratio Lower Upper

164 100

162 102.8 83.1 124.7

160 46.6 37.1 55.7



#14

2,4,6-Tribromophenol

Concen: 1.562 ng

RT: 16.03 min Scan# 1206

Delta R.T. 0.00 min

Lab File: BE094421.D

Acq: 16 Oct 2017 17:40

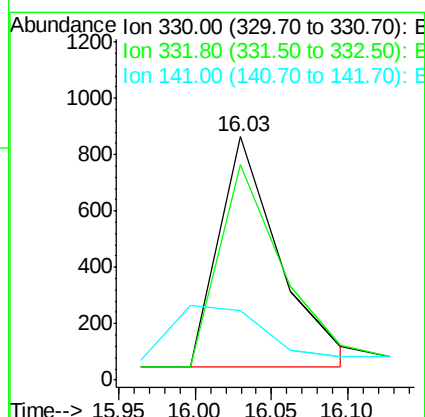
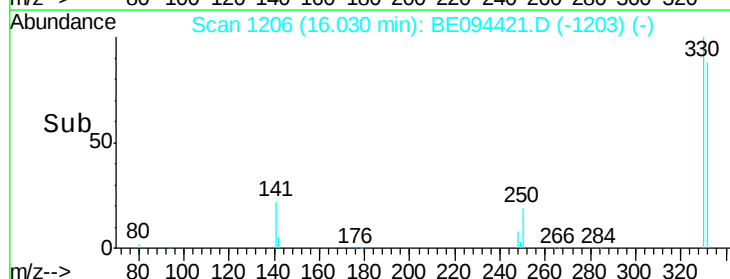
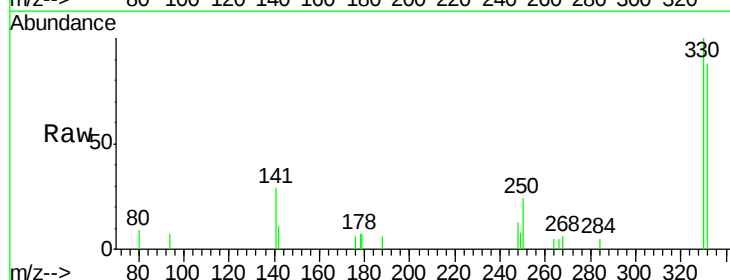
Tgt Ion:330 Resp: 2274

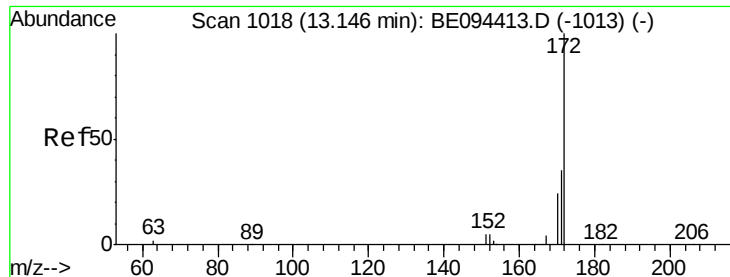
Ion Ratio Lower Upper

330 100

332 93.6 152.7 229.1#

141 0.0 33.7 50.5#

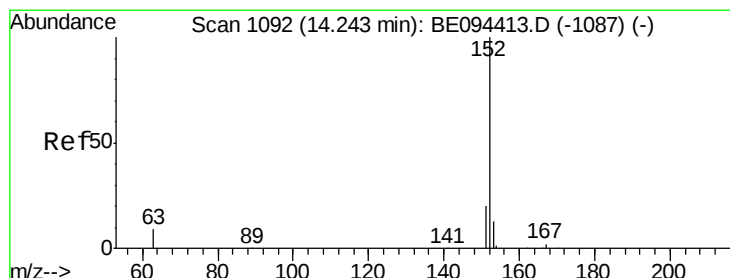
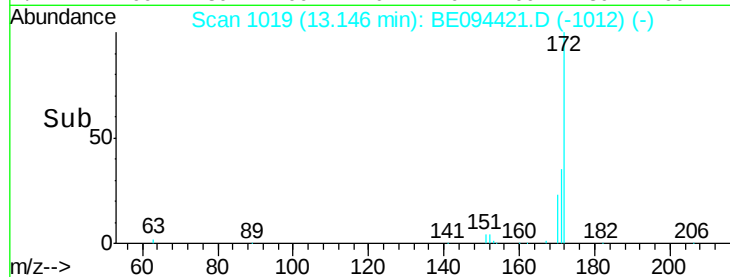
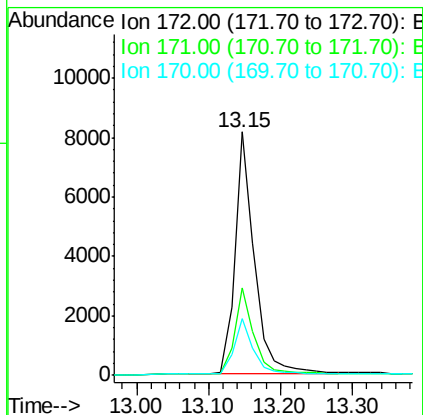
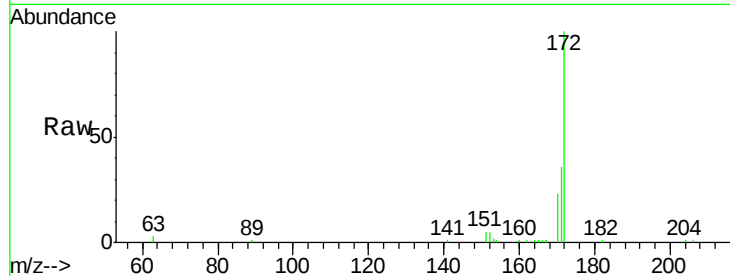




#15
 2-Fluorobiphenyl
 Concen: 1.123 ng
 RT: 13.15 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: BE094421.D
 Acq: 16 Oct 2017 17:40

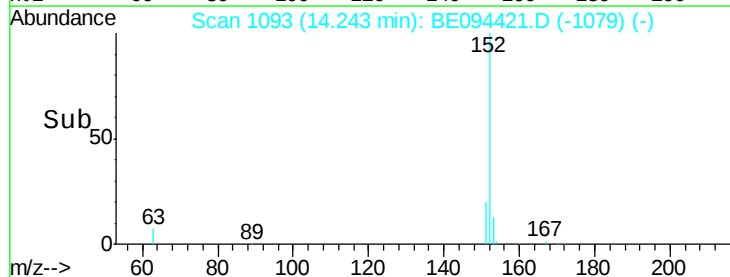
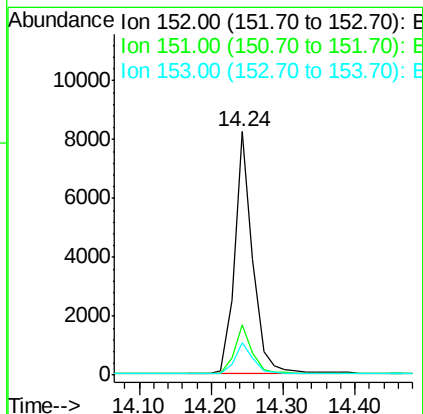
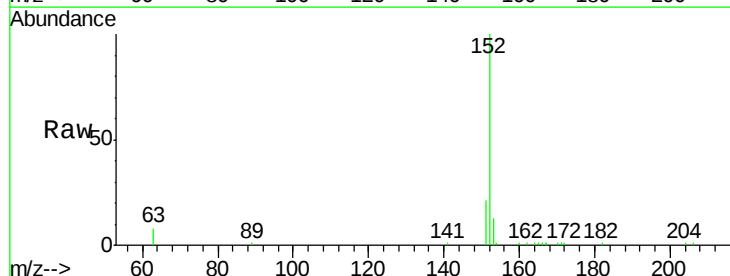
Instrument :
 BNA_E
 ClientSampleId :
 PT-BN-WPDL

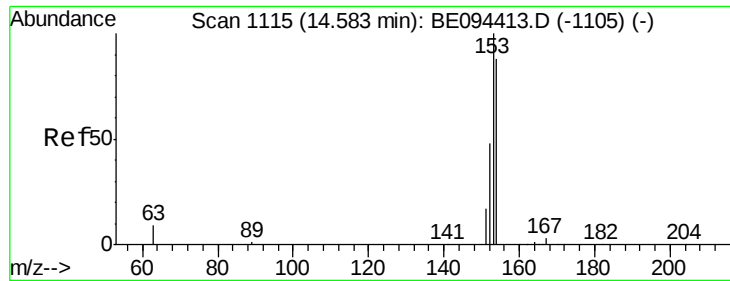
Tgt Ion:172 Resp: 15314
 Ion Ratio Lower Upper
 172 100
 171 35.7 29.9 44.9
 170 23.4 21.8 32.8



#16
 Acenaphthylene
 Concen: 0.695 ng
 RT: 14.24 min Scan# 1093
 Delta R.T. 0.00 min
 Lab File: BE094421.D
 Acq: 16 Oct 2017 17:40

Tgt Ion:152 Resp: 14399
 Ion Ratio Lower Upper
 152 100
 151 19.7 15.7 23.5
 153 13.1 10.5 15.7





#17

Acenaphthene

Concen: 0.693 ng

RT: 14.58 min Scan# 1116

Delta R.T. 0.00 min

Lab File: BE094421.D

Acq: 16 Oct 2017 17:40

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

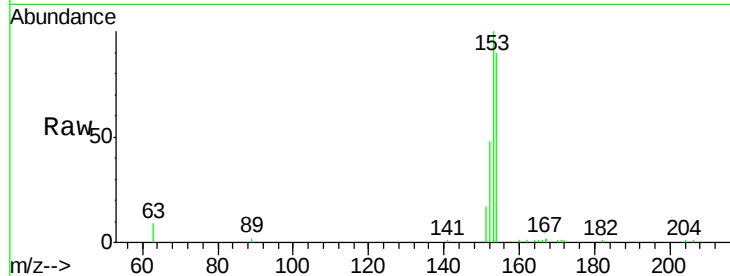
Tgt Ion:154 Resp: 9038

Ion Ratio Lower Upper

154 100

153 112.1 89.2 133.8

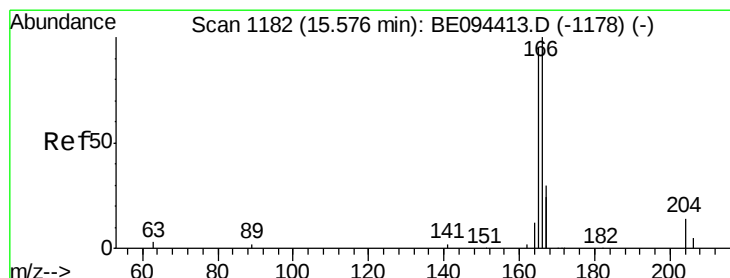
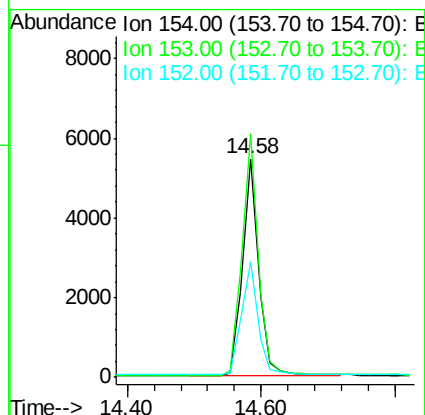
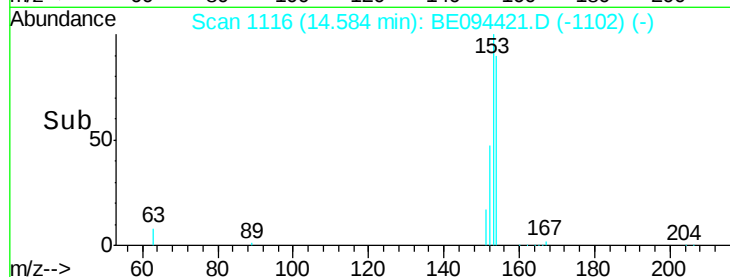
152 54.1 42.0 63.0



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: 1.037 ng

RT: 15.58 min Scan# 1183

Delta R.T. 0.00 min

Lab File: BE094421.D

Acq: 16 Oct 2017 17:40

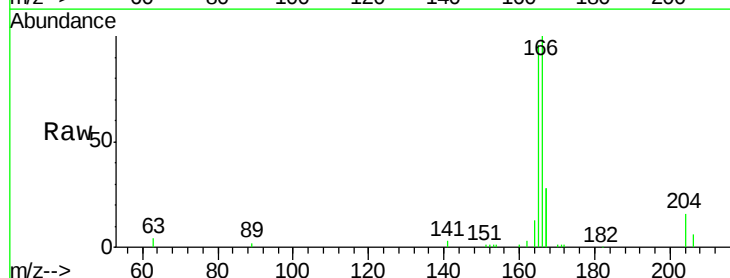
Tgt Ion:166 Resp: 17452

Ion Ratio Lower Upper

166 100

165 98.4 77.8 116.6

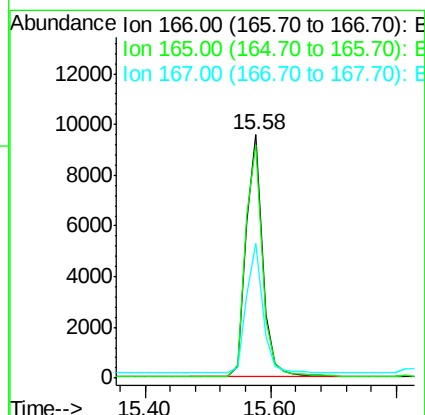
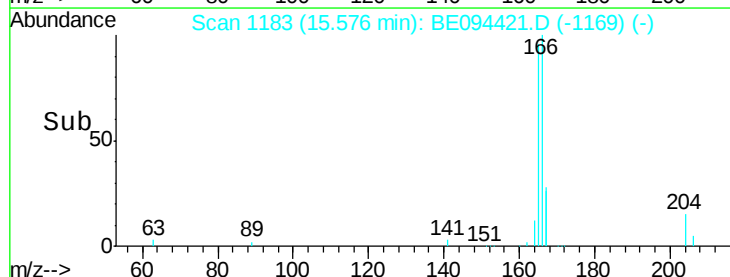
167 53.3 42.4 63.6

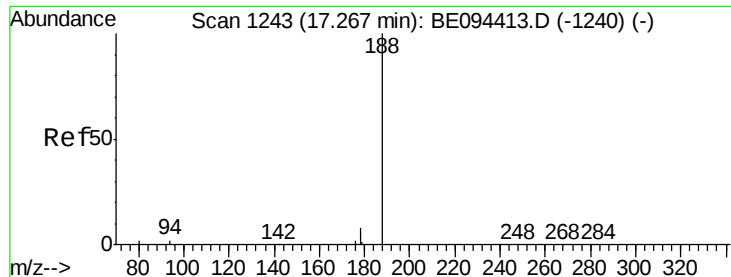


Abundance Ion 166.00 (165.70 to 166.70): E

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: 17.27 min Scan# 1244

Delta R.T. 0.00 min

Lab File: BE094421.D

Acq: 16 Oct 2017 17:40

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

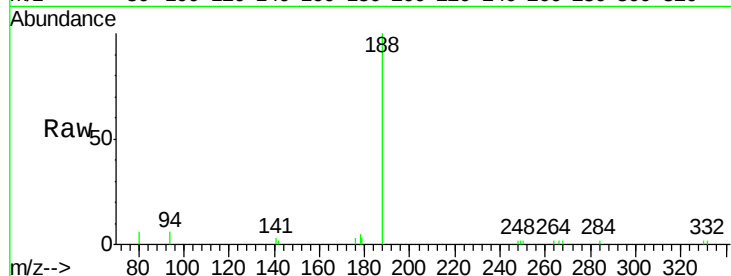
Tgt Ion:188 Resp: 7367

Ion Ratio Lower Upper

188 100

94 6.0 3.9 5.9#

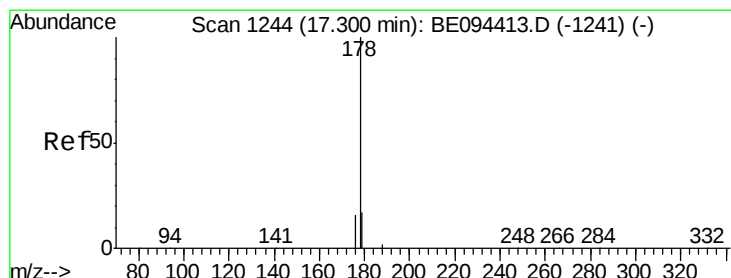
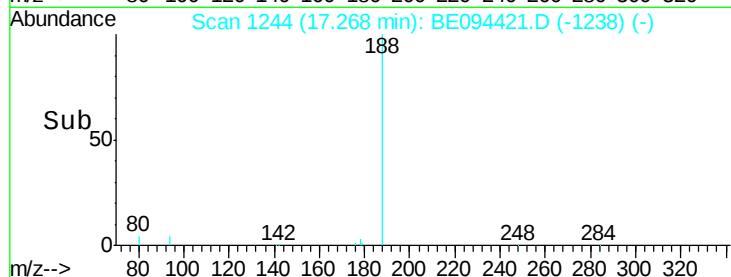
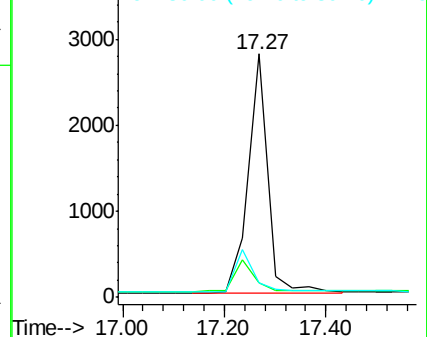
80 5.9 3.6 5.4#



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



#23

Phenanthrene

Concen: 0.161 ng

RT: 17.30 min Scan# 1245

Delta R.T. 0.00 min

Lab File: BE094421.D

Acq: 16 Oct 2017 17:40

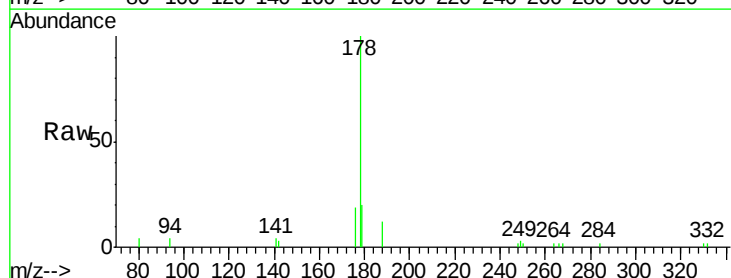
Tgt Ion:178 Resp: 4680

Ion Ratio Lower Upper

178 100

176 16.7 15.1 22.7

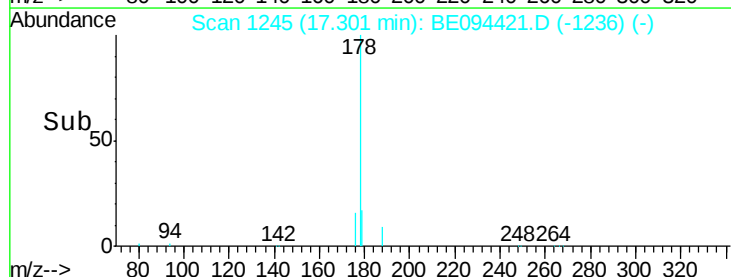
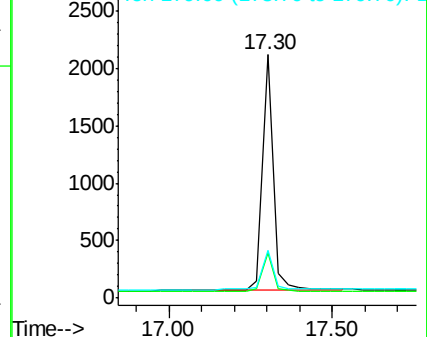
179 17.8 11.8 17.6#

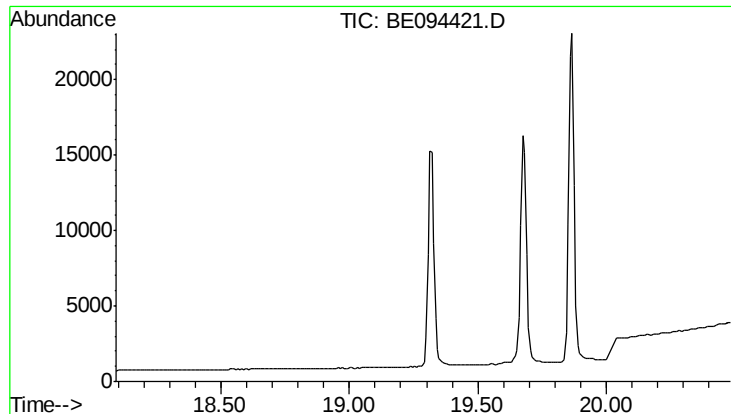


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

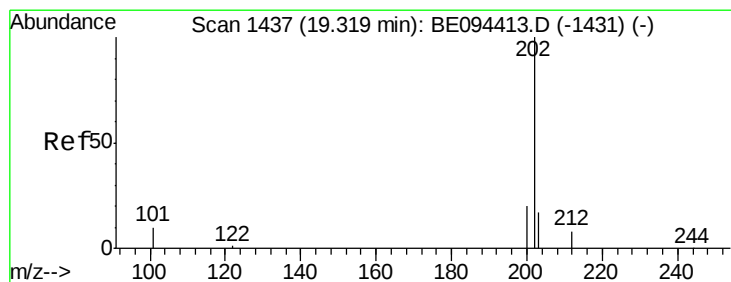
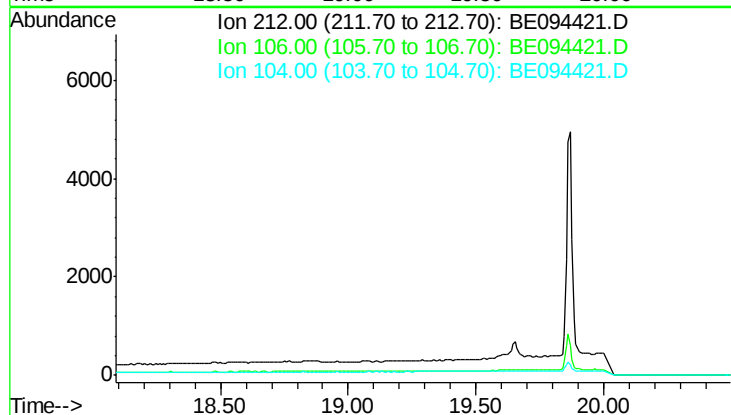




#25
 Fluoranthene-d10
 Concen: 0.000 ng
 Expected RT: 19.29 min
 Lab File: BE094421.D
 Acq: 16 Oct 2017 17:40

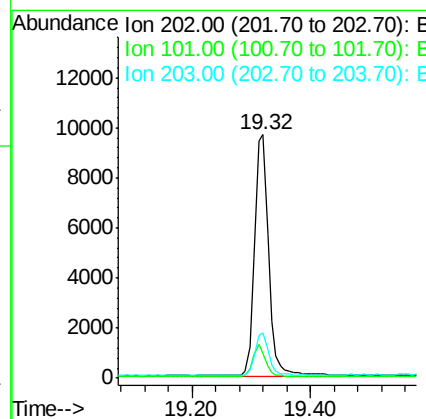
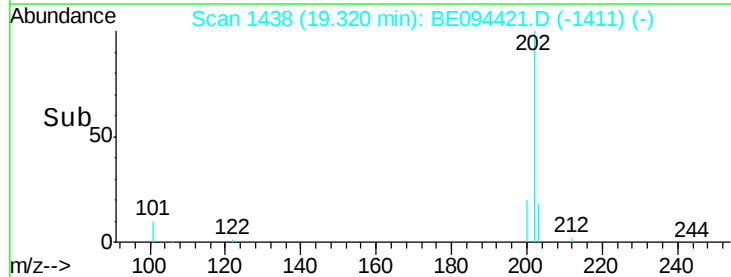
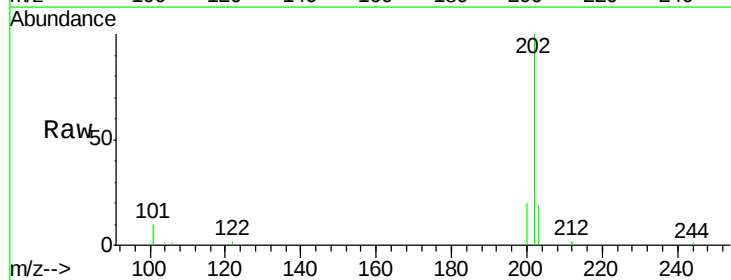
Instrument :
 BNA_E
 ClientSampleId :
 PT-BN-WPDL

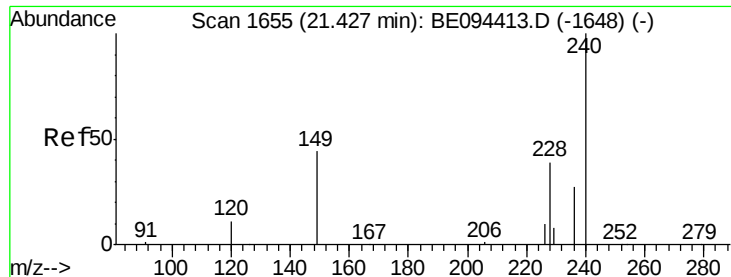
Tgt Ion: 212
 Sig Exp Ratio
 212 100
 106 3.5
 104 2.0



#26
 Fluoranthene
 Concen: 0.438 ng
 RT: 19.32 min Scan# 1438
 Delta R.T. 0.00 min
 Lab File: BE094421.D
 Acq: 16 Oct 2017 17:40

Tgt Ion: 202 Resp: 15756
 Ion Ratio Lower Upper
 202 100
 101 11.9 9.8 14.8
 203 17.5 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: BE094421.D

Acq: 16 Oct 2017 17:40

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

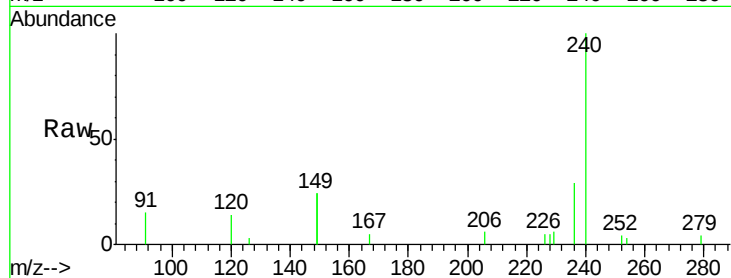
Tgt Ion:240 Resp: 9184

Ion Ratio Lower Upper

240 100

120 14.2 5.5 8.3#

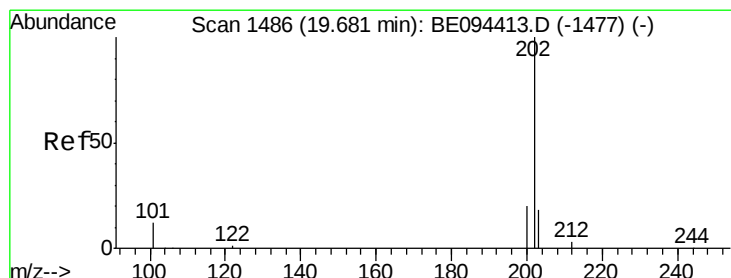
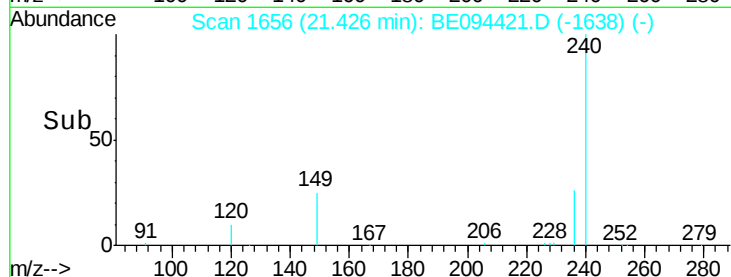
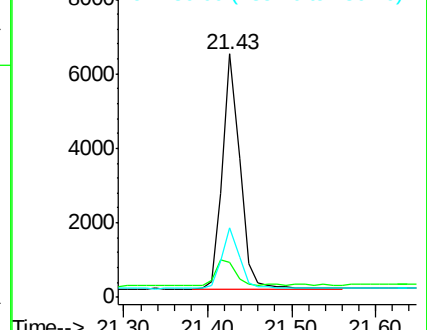
236 28.8 20.7 31.1



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: 0.448 ng

RT: 19.67 min Scan# 1486

Delta R.T. -0.01 min

Lab File: BE094421.D

Acq: 16 Oct 2017 17:40

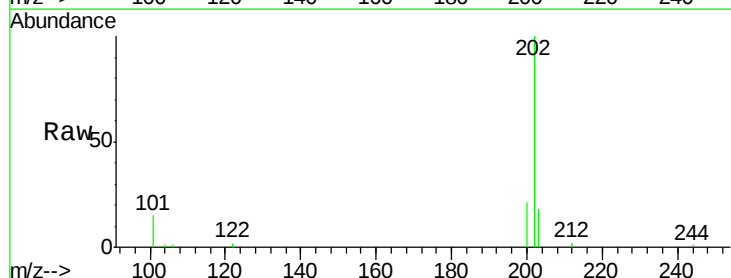
Tgt Ion:202 Resp: 15533

Ion Ratio Lower Upper

202 100

200 21.0 16.6 25.0

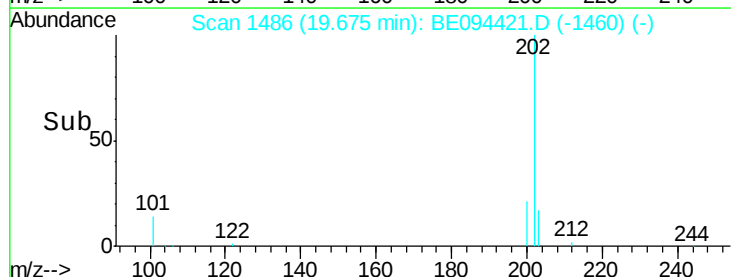
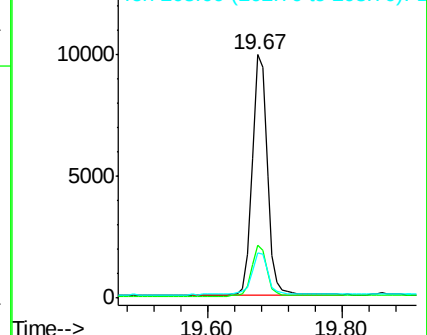
203 18.8 13.8 20.8

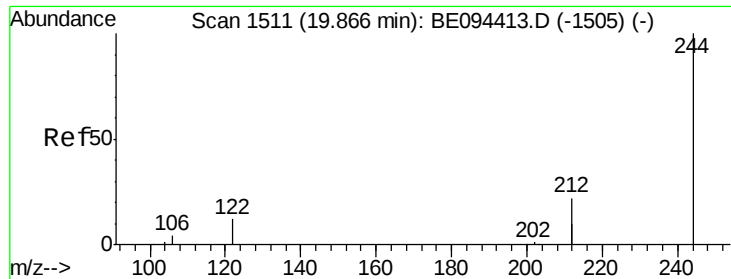


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 1.141 ng

RT: 19.87 min Scan# 1512

Delta R.T. 0.00 min

Lab File: BE094421.D

Acq: 16 Oct 2017 17:40

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

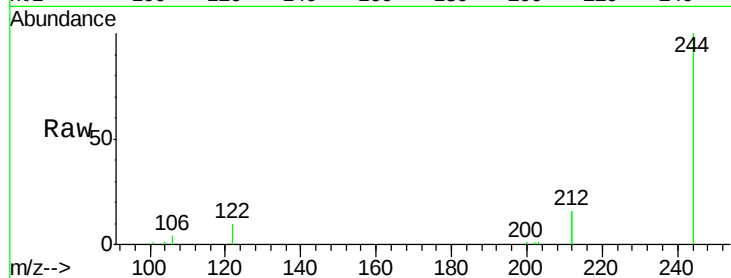
Tgt Ion:244 Resp: 21138

Ion Ratio Lower Upper

244 100

212 32.7 25.4 38.0

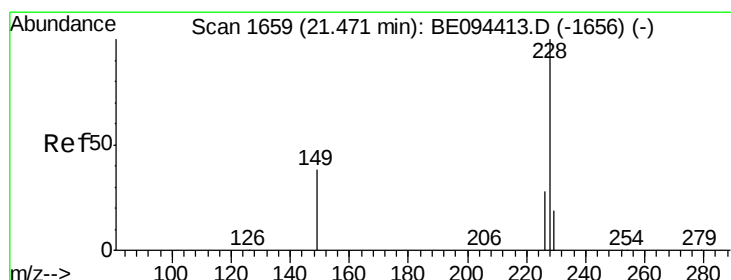
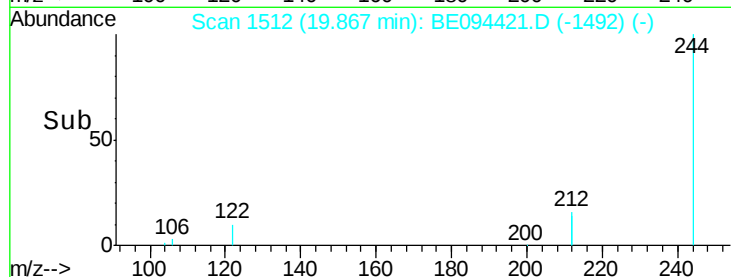
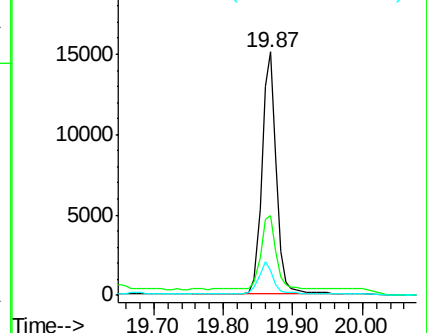
122 10.2 8.1 12.1



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: 0.724 ng

RT: 21.46 min Scan# 1659

Delta R.T. -0.01 min

Lab File: BE094421.D

Acq: 16 Oct 2017 17:40

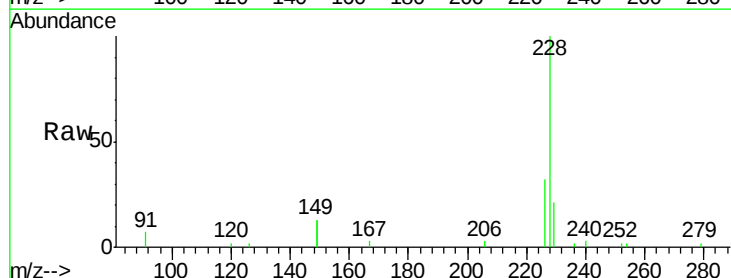
Tgt Ion:228 Resp: 22145

Ion Ratio Lower Upper

228 100

226 31.9 40.0 60.0#

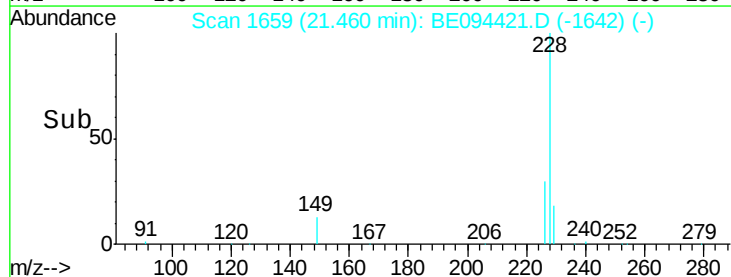
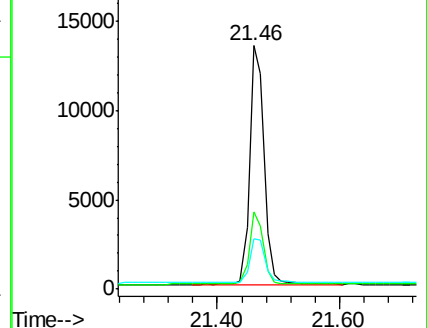
229 20.8 40.0 60.0#

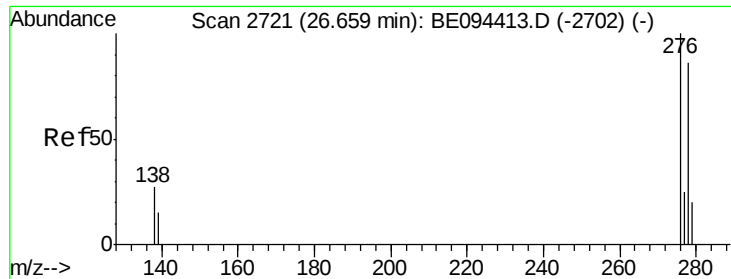


Abundance Ion 228.00 (227.70 to 228.70): E

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: 0.980 ng

RT: 26.65 min Scan# 2719

Delta R.T. -0.01 min

Lab File: BE094421.D

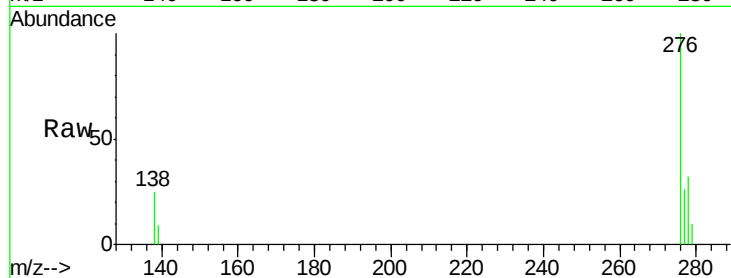
Acq: 16 Oct 2017 17:40

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL



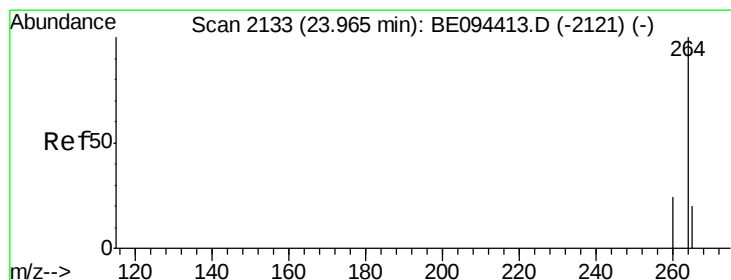
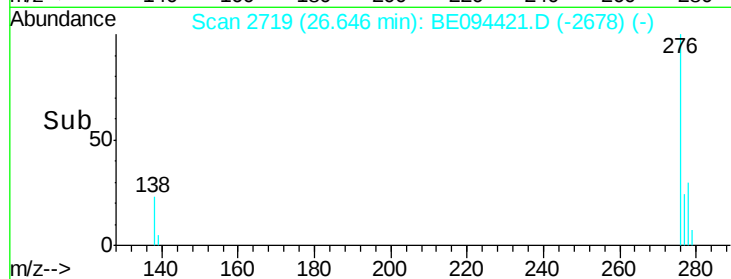
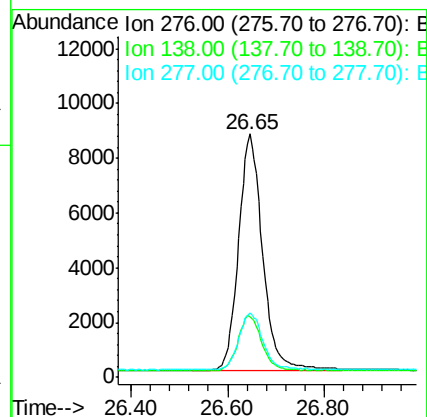
Tgt Ion:276 Resp: 30175

Ion Ratio Lower Upper

276 100

138 23.2 22.5 33.7

277 23.7 19.9 29.9



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.96 min Scan# 2132

Delta R.T. -0.01 min

Lab File: BE094421.D

Acq: 16 Oct 2017 17:40

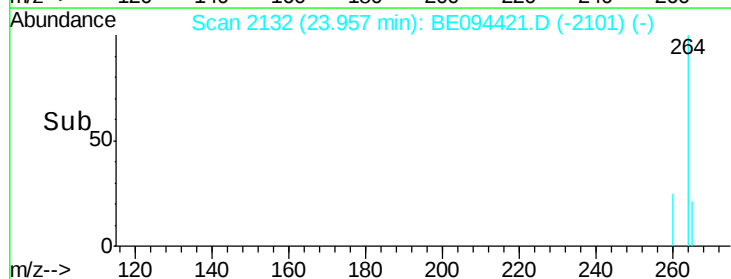
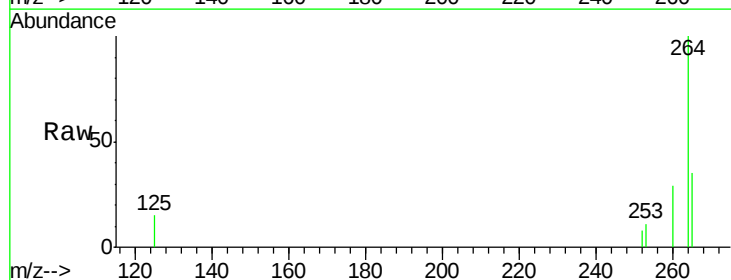
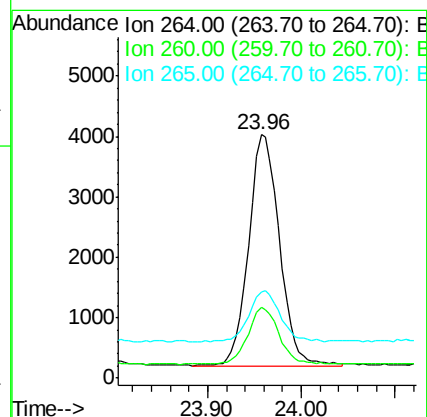
Tgt Ion:264 Resp: 8750

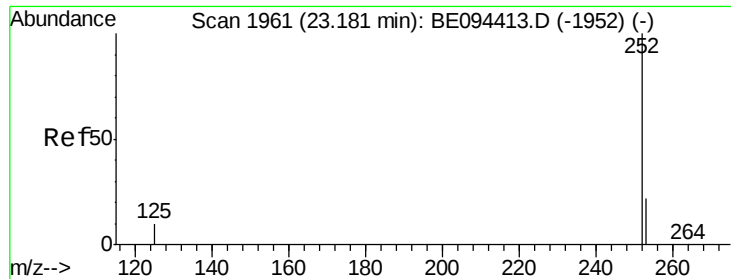
Ion Ratio Lower Upper

264 100

260 29.2 20.5 30.7

265 35.4 22.8 34.2#

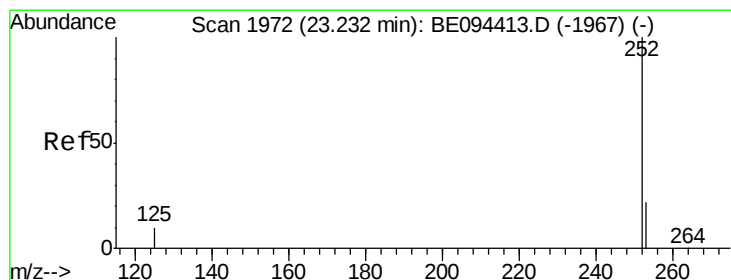
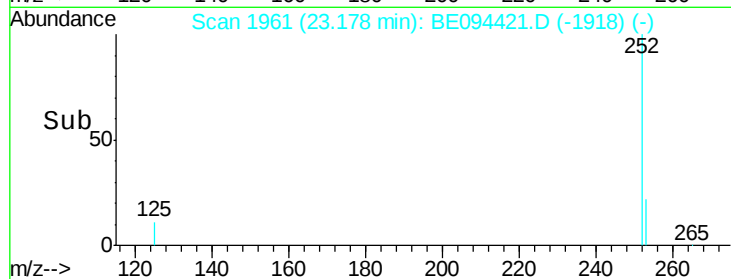
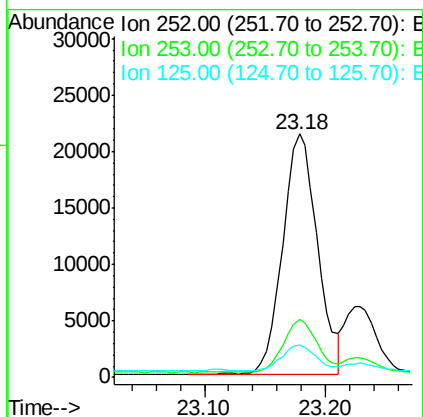
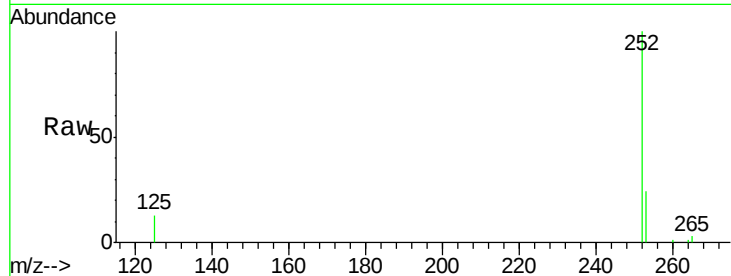




#35
Benzo(b)fluoranthene
Concen: 1.430 ng
RT: 23.18 min Scan# 1961
Delta R.T. -0.00 min
Lab File: BE094421.D
Acq: 16 Oct 2017 17:40

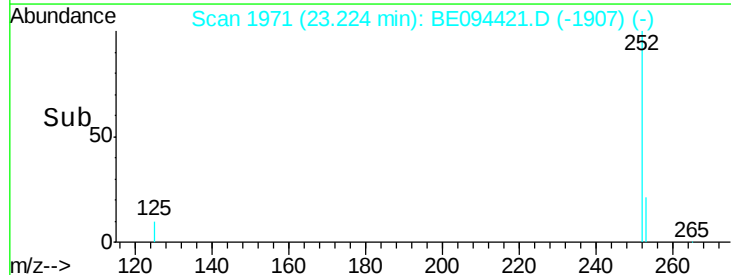
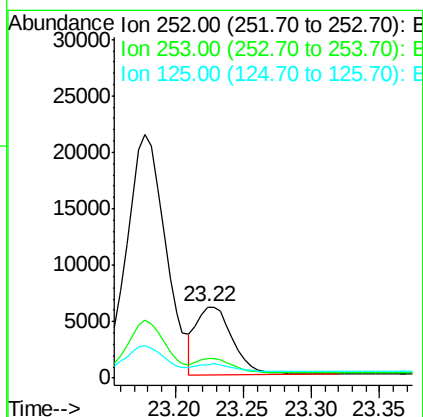
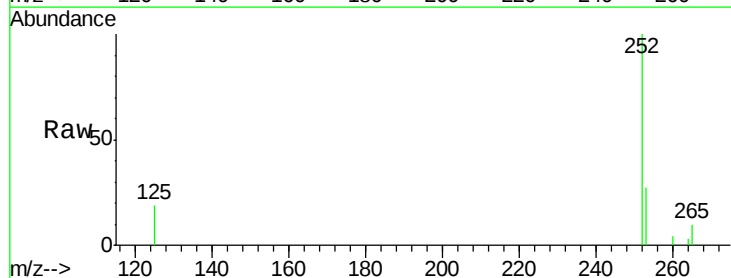
Instrument :
BNA_E
ClientSampleId :
PT-BN-WPDL

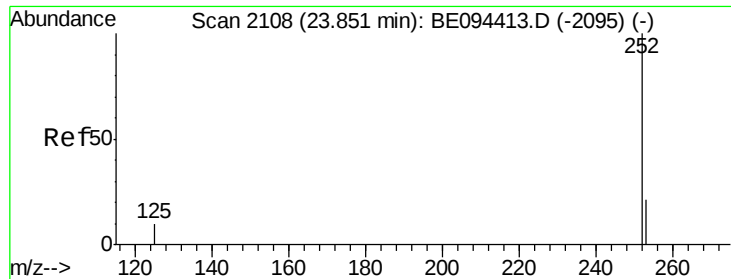
Tgt Ion:252 Resp: 42439
Ion Ratio Lower Upper
252 100
253 23.9 48.0 72.0#
125 13.2 56.0 84.0#



#36
Benzo(k)fluoranthene
Concen: 0.380 ng
RT: 23.22 min Scan# 1971
Delta R.T. -0.01 min
Lab File: BE094421.D
Acq: 16 Oct 2017 17:40

Tgt Ion:252 Resp: 11100
Ion Ratio Lower Upper
252 100
253 27.2 48.0 72.0#
125 19.3 56.0 84.0#





#37

Benzo(a)pyrene

Concen: 0.292 ng

RT: 23.85 min Scan# 2108

Delta R.T. -0.00 min

Lab File: BE094421.D

Acq: 16 Oct 2017 17:40

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

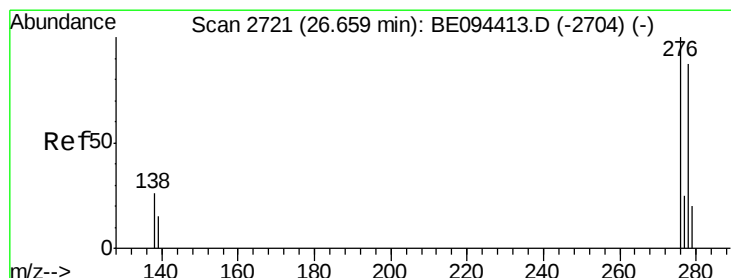
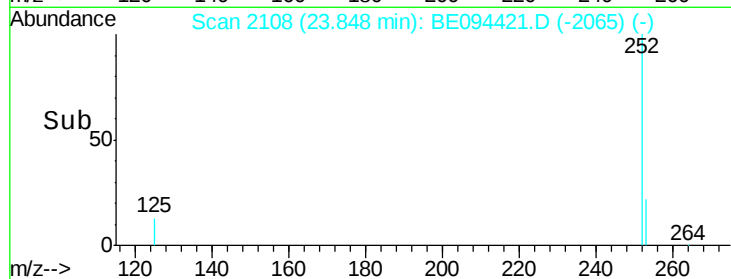
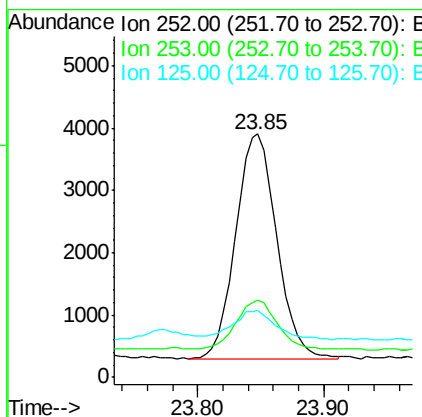
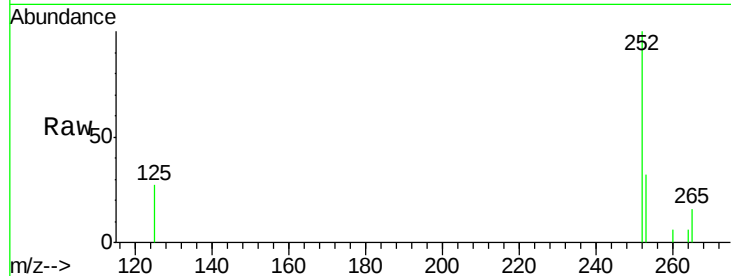
Tgt Ion:252 Resp: 8158

Ion Ratio Lower Upper

252 100

253 31.5 52.0 78.0#

125 27.5 68.0 102.0#



#38

Dibenzo(a,h)anthracene

Concen: 0.361 ng

RT: 26.65 min Scan# 2720

Delta R.T. -0.01 min

Lab File: BE094421.D

Acq: 16 Oct 2017 17:40

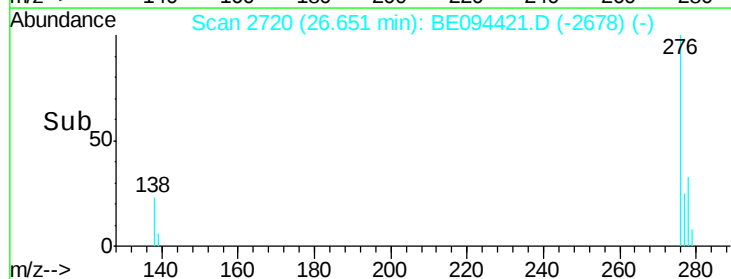
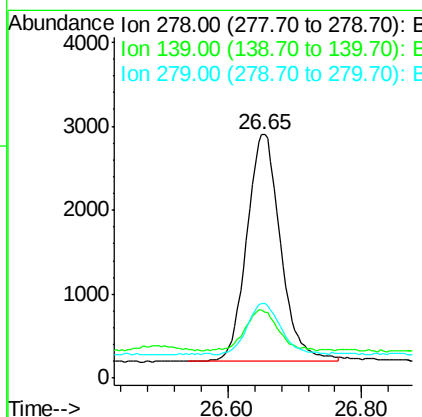
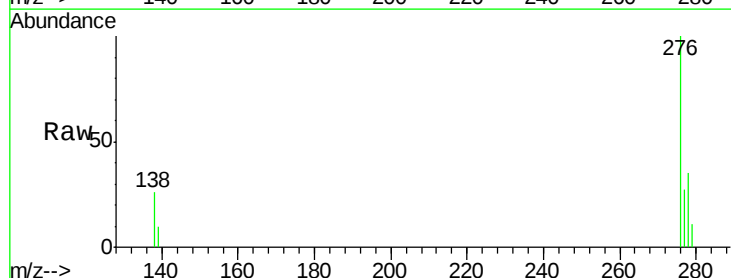
Tgt Ion:278 Resp: 9532

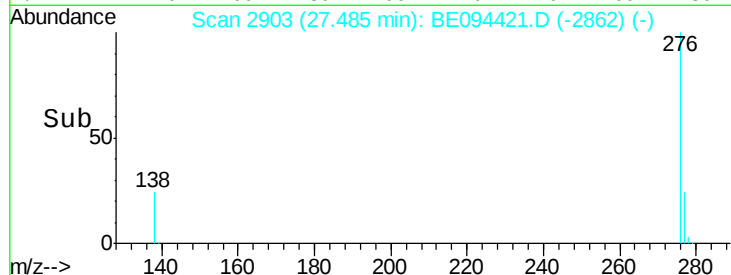
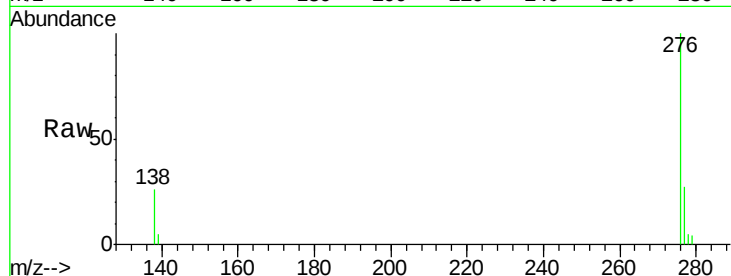
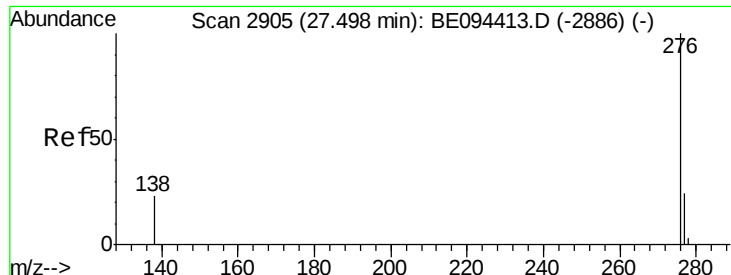
Ion Ratio Lower Upper

278 100

139 28.0 56.0 84.0#

279 30.9 52.0 78.0#





#39

Benzo(g,h,i)perylene

Concen: 1.290 ng

RT: 27.48 min Scan# 2903

Delta R.T. -0.01 min

Lab File: BE094421.D

Acq: 16 Oct 2017 17:40

Instrument :

BNA_E

ClientSampleId :

PT-BN-WPDL

Tgt Ion:276 Resp: 32753

Ion Ratio Lower Upper

276 100

277 26.7 52.0 78.0#

138 26.4 44.0 66.0#

