

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE101617\
 Data File : BE094419.D
 Acq On : 16 Oct 2017 16:11
 Operator : SJ/JU
 Sample : I5266-21DL 10X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WPDL

Quant Time: Oct 16 16:46:58 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	1246	0.40	ng	0.00
7) Naphthalene-d8	10.71	136	6366	0.40	ng	0.00
13) Acenaphthene-d10	14.52	164	3988	0.40	ng	0.00
19) Phenanthrene-d10	17.27	188	7920	0.40	ng	0.00
27) Chrysene-d12	21.43	240	9604	0.40	ng	0.00
34) Perylene-d12	23.96	264	9001	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.53	112	210	0.05	ng	0.01
5) Phenol-d6	7.15	99	267	0.04	ng	0.03
8) Nitrobenzene-d5	9.09	82	264	0.05	ng	0.02
11) 2-Methylnaphthalene-d10	12.31	152	440	0.04	ng	0.02
14) 2,4,6-Tribromophenol	16.06	330	55	0.04	ng	0.03
15) 2-Fluorobiphenyl	13.16	172	682	0.05	ng	0.02
25) Fluoranthene-d10	19.29	212	5000	0.04	ng	0.00
29) Terphenyl-d14	19.87	244	1003	0.05	ng	0.00

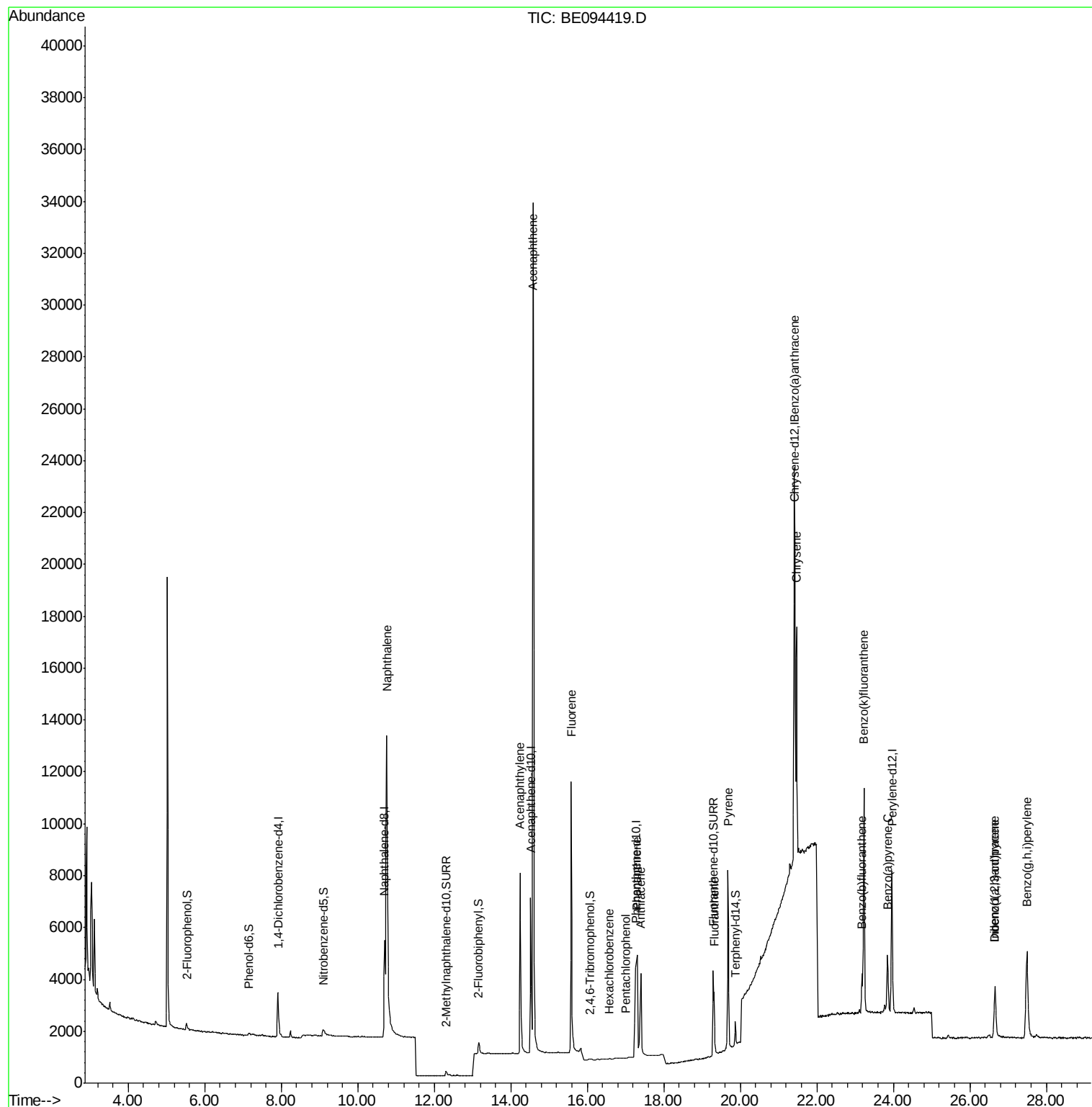
Target Compounds				Qvalue		
9) Naphthalene	10.76	128	27594	0.388	ng	100
16) Acenaphthylene	14.24	152	10364	0.479	ng	99
17) Acenaphthene	14.58	154	19119	1.404	ng	97
18) Fluorene	15.58	166	7246	0.413	ng	99
21) Hexachlorobenzene	16.58	284	20	0.029	ng	# 64
22) Pentachlorophenol	17.01	266	2	0.159	ng	94
23) Phenanthrene	17.30	178	6567	0.211	ng	97
24) Anthracene	17.40	178	5339	0.222	ng	98
26) Fluoranthene	19.32	202	2557	0.066	ng	98
28) Pyrene	19.68	202	7273	0.201	ng	97
30) Benzo(a)anthracene	21.41	228	12683	0.382	ng	# 66
31) Chrysene	21.47	228	9775	0.306	ng	# 69
33) Indeno(1,2,3-cd)pyrene	26.65	276	2397	0.074	ng	99
35) Benzo(b)fluoranthene	23.18	252	2070	0.068	ng	# 84
36) Benzo(k)fluoranthene	23.23	252	13287	0.442	ng	# 47
37) Benzo(a)pyrene	23.85	252	3702	0.129	ng	# 66
38) Dibenzo(a,h)anthracene	26.66	278	2464	0.091	ng	# 83
39) Benzo(g,h,i)perylene	27.49	276	9195	0.352	ng	# 63

(#) = 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: BE094419.D

Acq: 16 Oct 2017 16:11

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

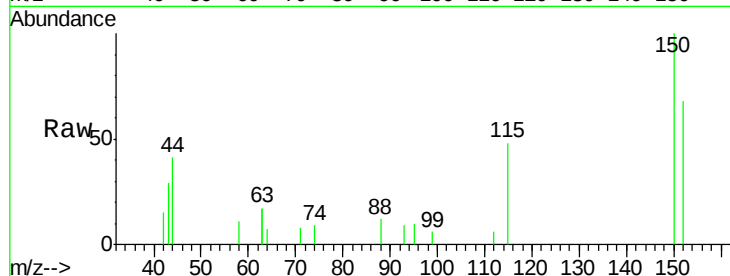
Tgt Ion:152 Resp: 1246

Ion Ratio Lower Upper

152 100

150 147.2 117.2 175.8

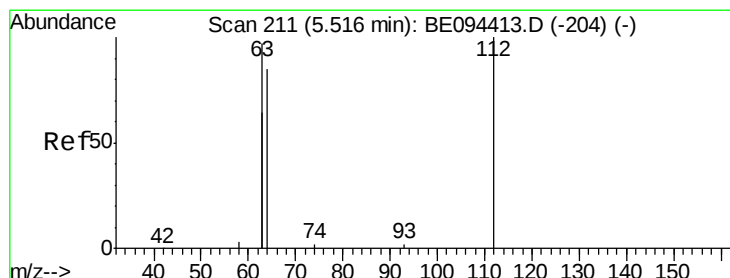
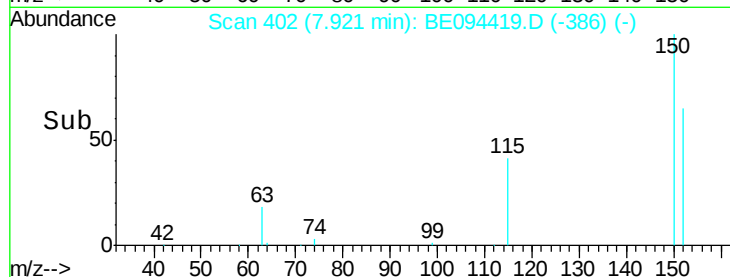
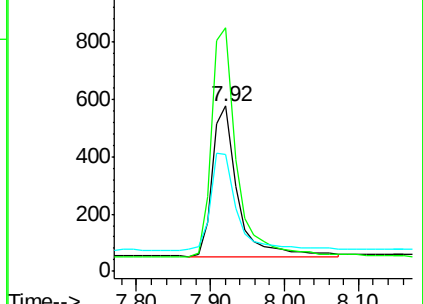
115 70.5 57.0 85.6



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: 0.050 ng

RT: 5.53 min Scan# 212

Delta R.T. 0.01 min

Lab File: BE094419.D

Acq: 16 Oct 2017 16:11

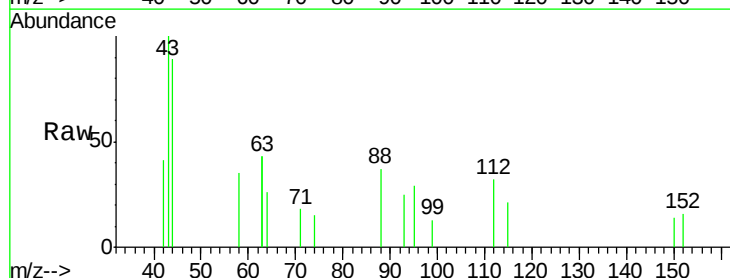
Tgt Ion:112 Resp: 210

Ion Ratio Lower Upper

112 100

64 72.4 60.1 90.1

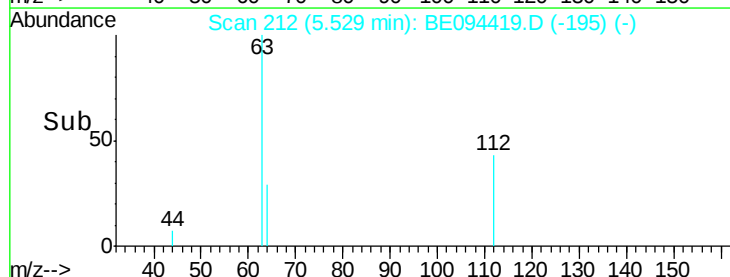
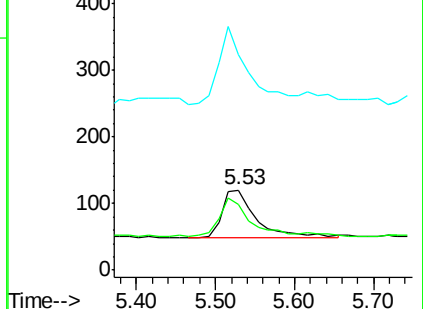
63 150.5 116.8 175.2

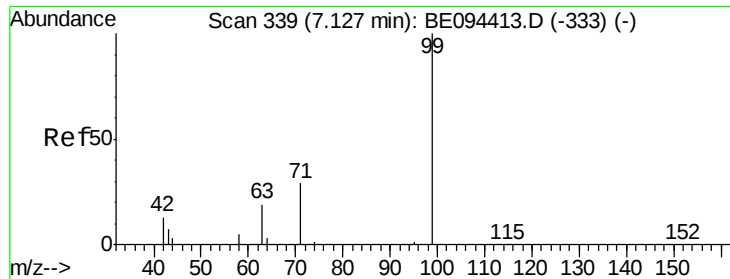


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.041 ng

RT: 7.15 min Scan# 341

Delta R.T. 0.03 min

Lab File: BE094419.D

Acq: 16 Oct 2017 16:11

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

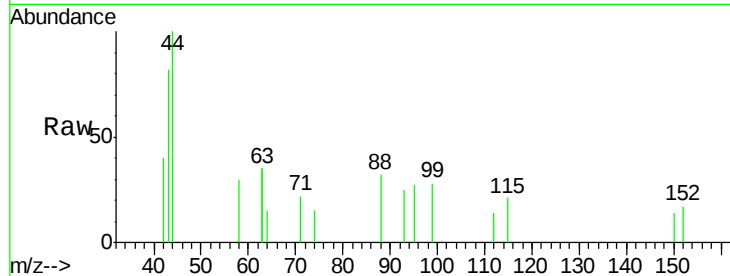
Tgt Ion: 99 Resp: 267

Ion Ratio Lower Upper

99 100

42 0.0 20.2 30.2#

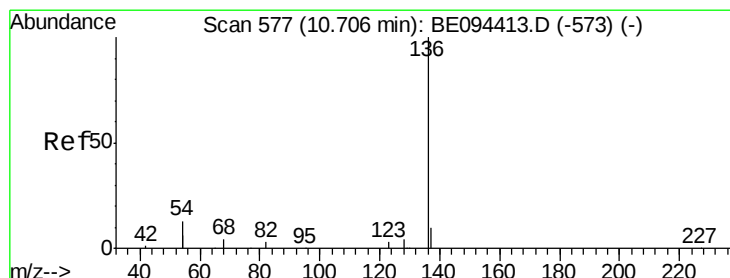
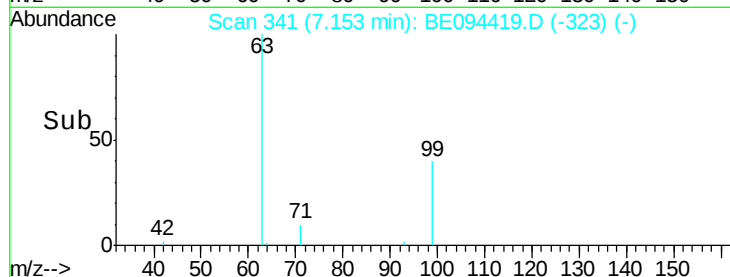
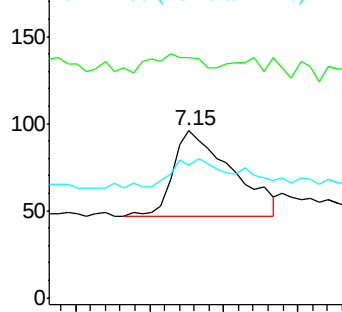
71 25.8 28.4 42.6#



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: 10.71 min Scan# 577

Delta R.T. -0.00 min

Lab File: BE094419.D

Acq: 16 Oct 2017 16:11

Tgt Ion: 136 Resp: 6366

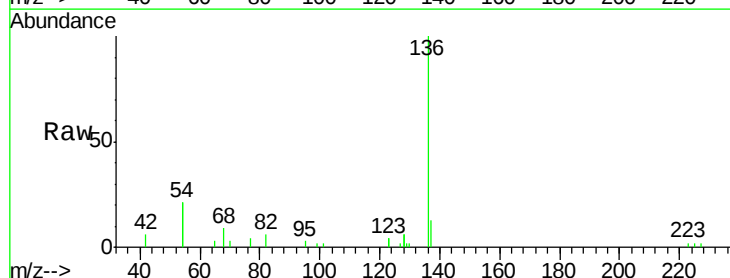
Ion Ratio Lower Upper

136 100

137 13.1 9.5 14.3

54 41.5 29.1 43.7

68 8.9 6.2 9.2

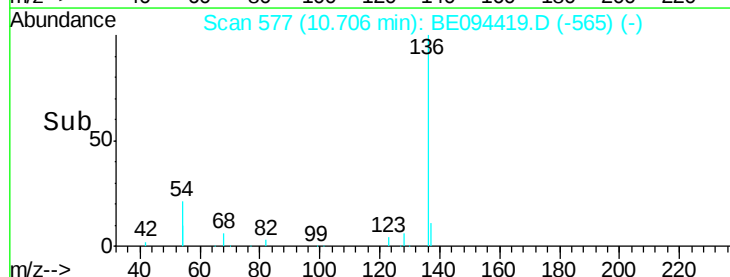
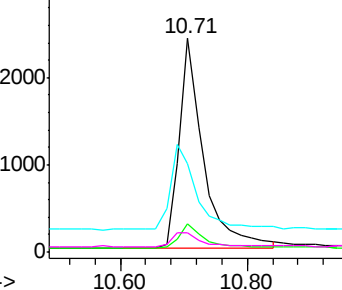


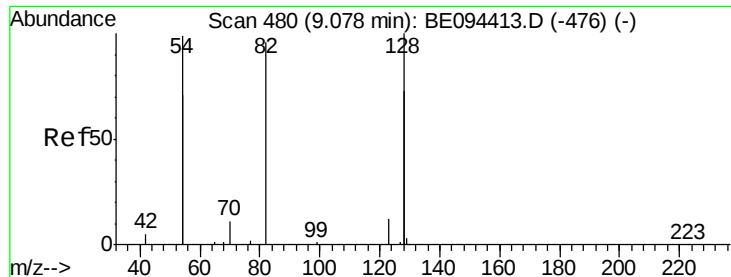
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.048 ng

RT: 9.09 min Scan# 481

Delta R.T. 0.02 min

Lab File: BE094419.D

Acq: 16 Oct 2017 16:11

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

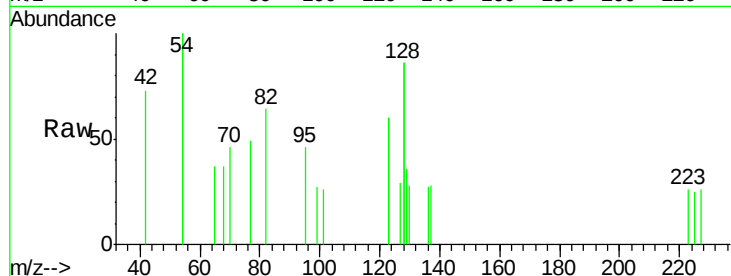
Tgt Ion: 82 Resp: 264

Ion Ratio Lower Upper

82 100

128 268.4 150.0 225.0#

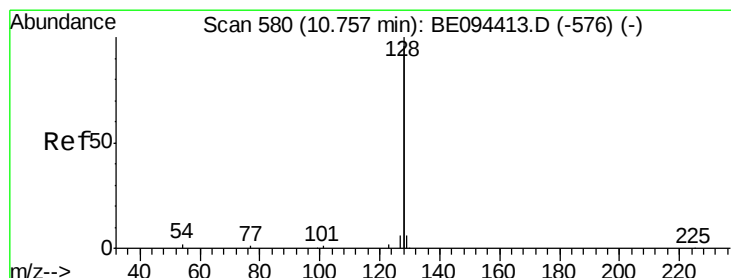
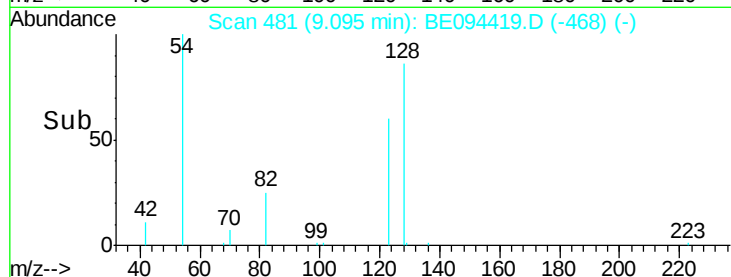
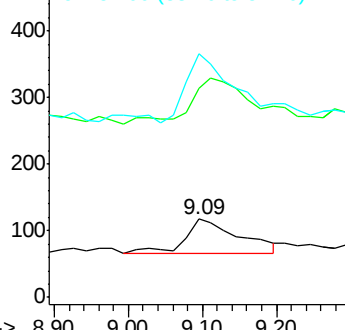
54 312.8 154.2 231.4#



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



#9

Naphthalene

Concen: 0.388 ng

RT: 10.76 min Scan# 580

Delta R.T. -0.00 min

Lab File: BE094419.D

Acq: 16 Oct 2017 16:11

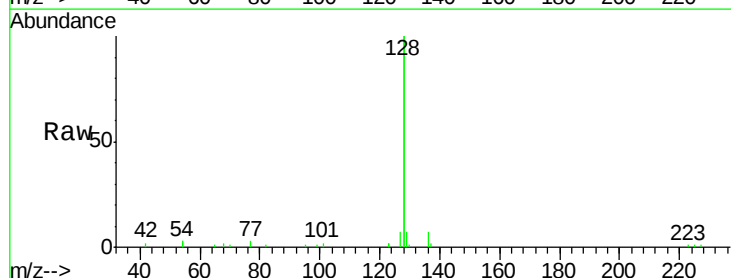
Tgt Ion: 128 Resp: 27594

Ion Ratio Lower Upper

128 100

129 3.3 2.6 3.8

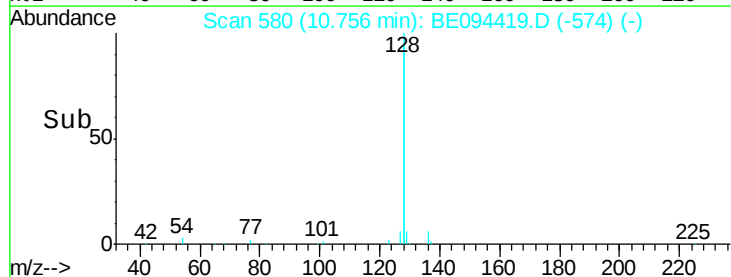
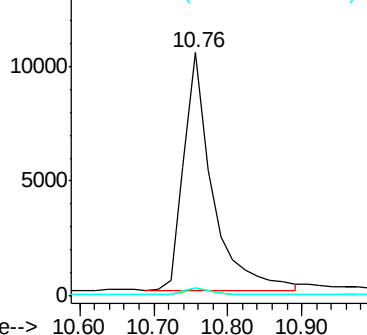
127 3.5 2.8 4.2

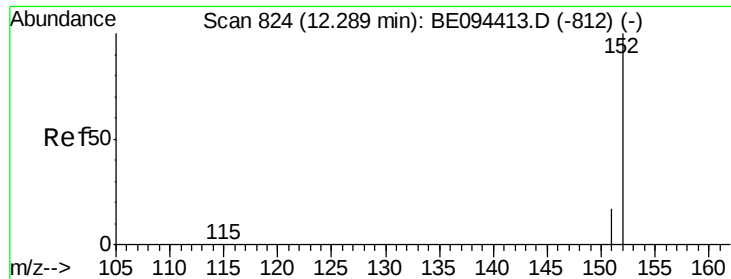


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

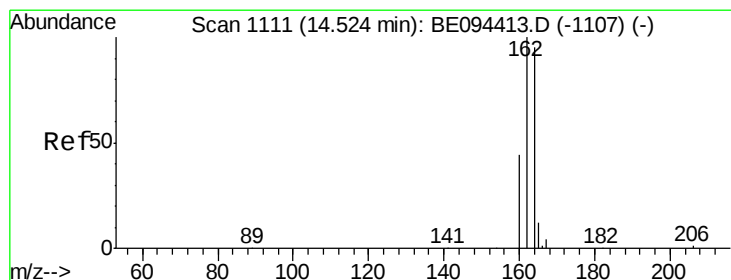
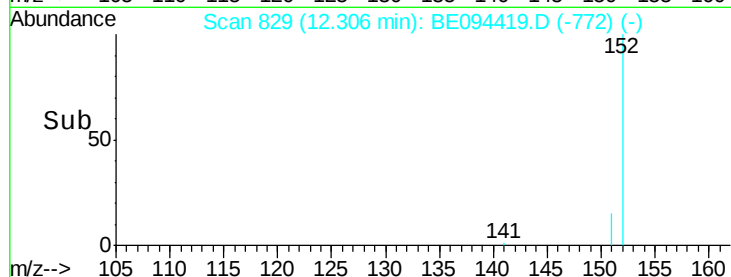
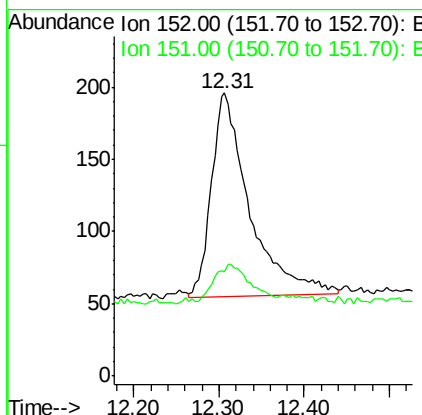
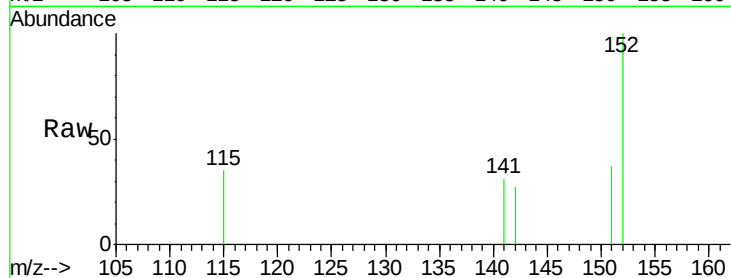




#11
2-Methylnaphthalene-d10
Concen: 0.045 ng
RT: 12.31 min Scan# 829
Delta R.T. 0.02 min
Lab File: BE094419.D
Acq: 16 Oct 2017 16:11

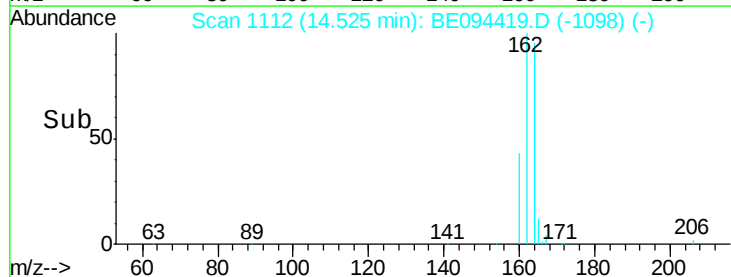
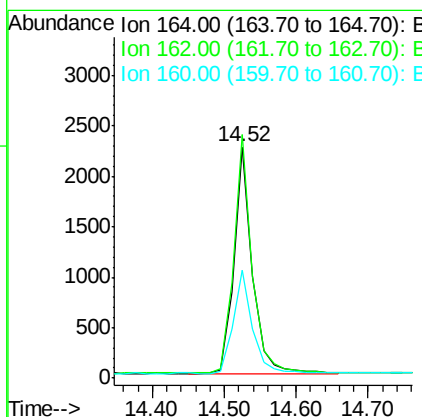
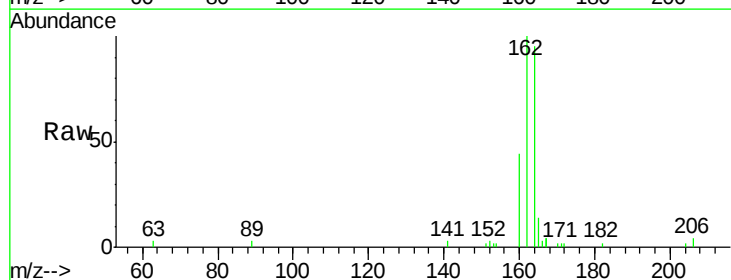
Instrument :
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RR-PAH-WPDL

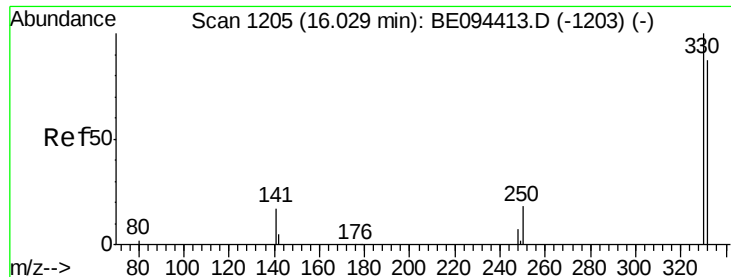
Tgt Ion:152 Resp: 440
Ion Ratio Lower Upper
152 100
151 16.1 15.4 23.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.52 min Scan# 1112
Delta R.T. 0.00 min
Lab File: BE094419.D
Acq: 16 Oct 2017 16:11

Tgt Ion:164 Resp: 3988
Ion Ratio Lower Upper
164 100
162 105.4 83.1 124.7
160 46.5 37.1 55.7

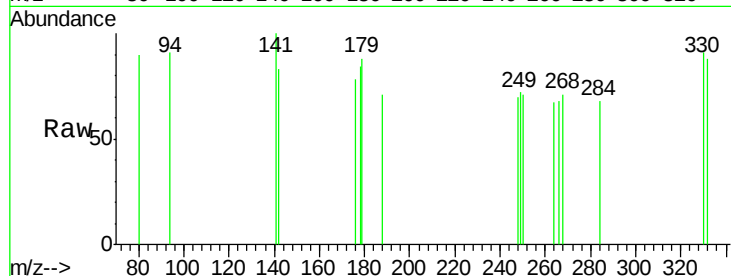




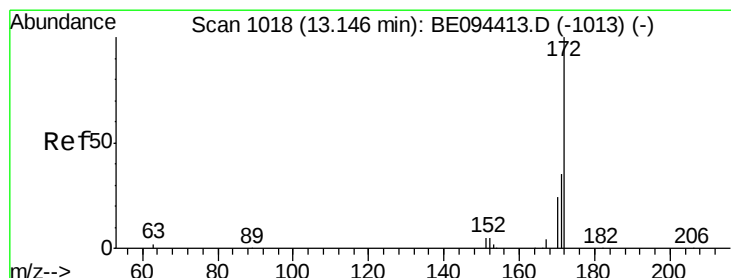
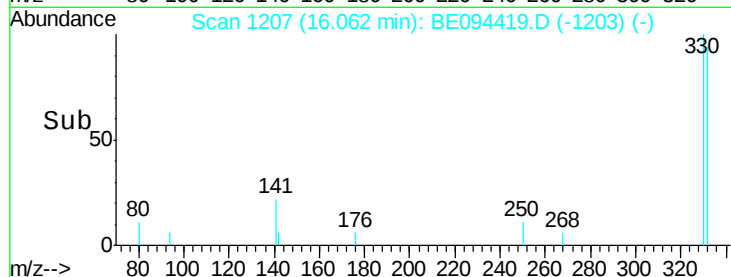
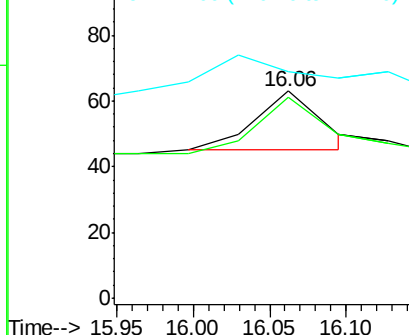
#14
 2,4,6-Tribromophenol
 Concen: 0.036 ng
 RT: 16.06 min Scan# 1207
 Delta R.T. 0.03 min
 Lab File: BE094419.D
 Acq: 16 Oct 2017 16:11

Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WPDL

Tgt Ion: 330 Resp: 55
 Ion Ratio Lower Upper
 330 100
 332 96.4 152.7 229.1#
 141 0.0 33.7 50.5#

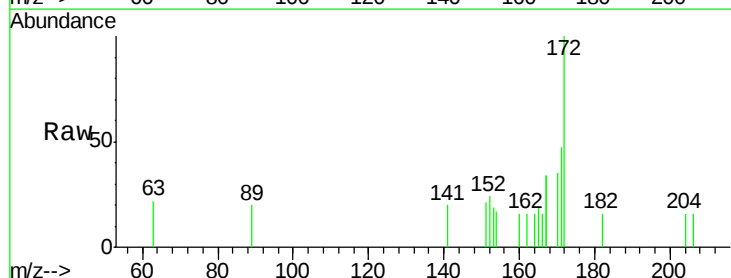


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

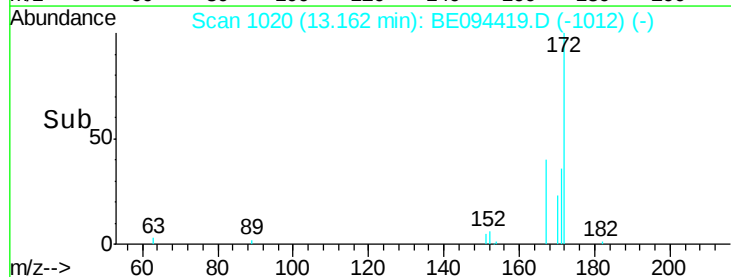
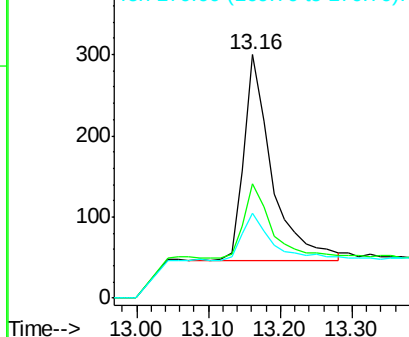


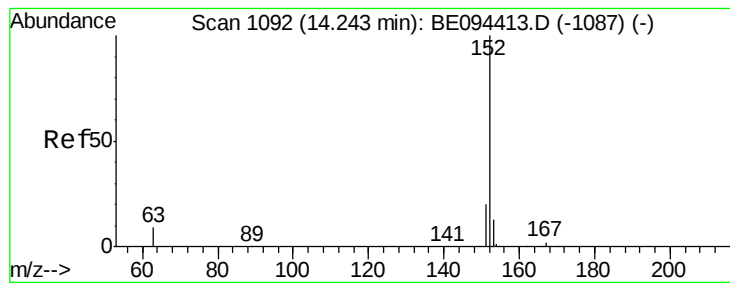
#15
 2-Fluorobiphenyl
 Concen: 0.048 ng
 RT: 13.16 min Scan# 1020
 Delta R.T. 0.02 min
 Lab File: BE094419.D
 Acq: 16 Oct 2017 16:11

Tgt Ion: 172 Resp: 682
 Ion Ratio Lower Upper
 172 100
 171 47.0 29.9 44.9#
 170 34.7 21.8 32.8#



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





#16

Acenaphthylene

Concen: 0.479 ng

RT: 14.24 min Scan# 1093

Delta R.T. 0.00 min

Lab File: BE094419.D

Acq: 16 Oct 2017 16:11

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

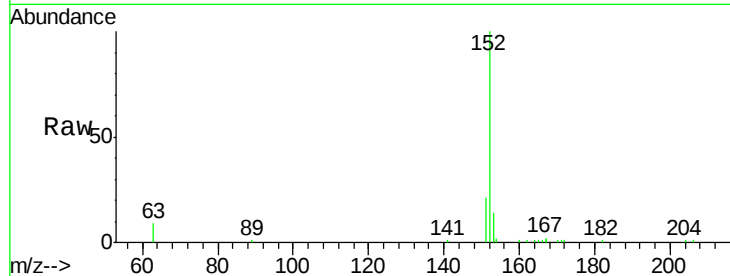
Tgt Ion:152 Resp: 10364

Ion Ratio Lower Upper

152 100

151 19.8 15.7 23.5

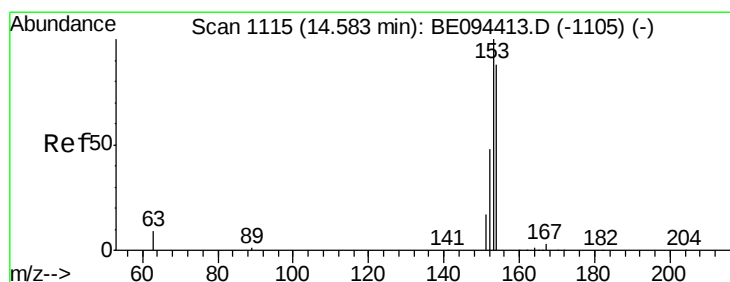
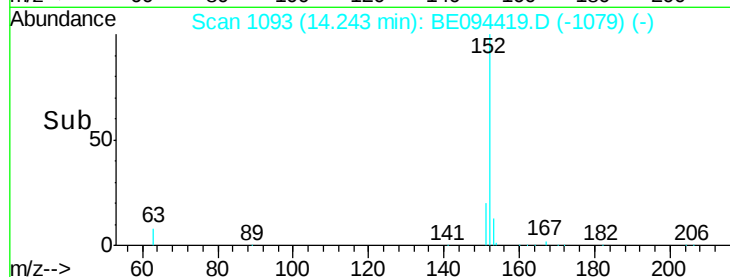
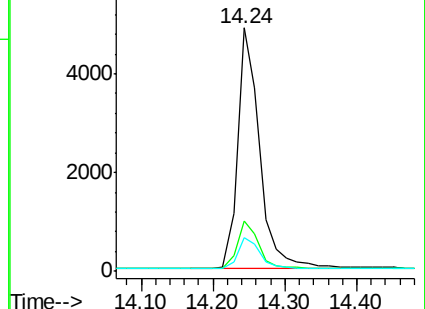
153 13.5 10.5 15.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#17

Acenaphthene

Concen: 1.404 ng

RT: 14.58 min Scan# 1116

Delta R.T. 0.00 min

Lab File: BE094419.D

Acq: 16 Oct 2017 16:11

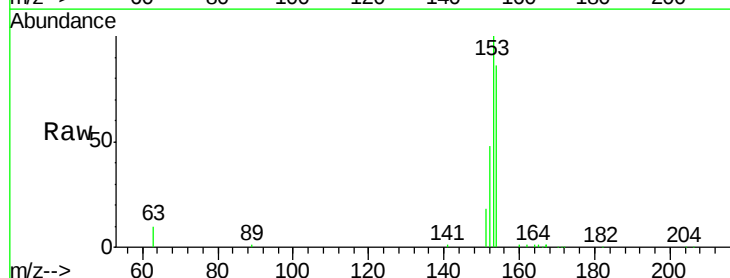
Tgt Ion:154 Resp: 19119

Ion Ratio Lower Upper

154 100

153 114.2 89.2 133.8

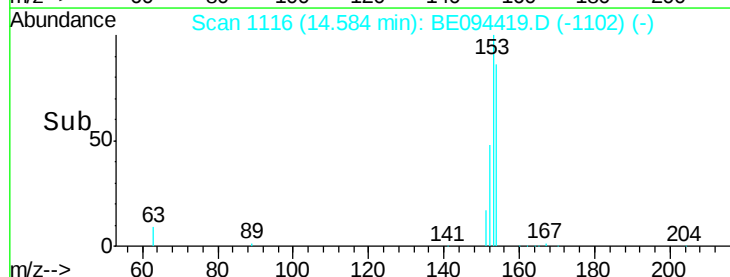
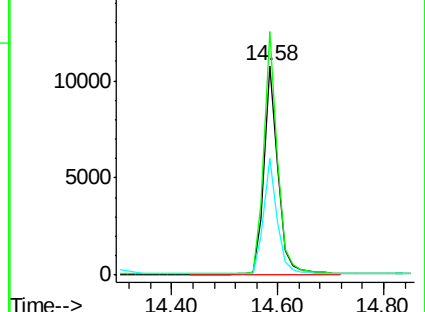
152 54.5 42.0 63.0

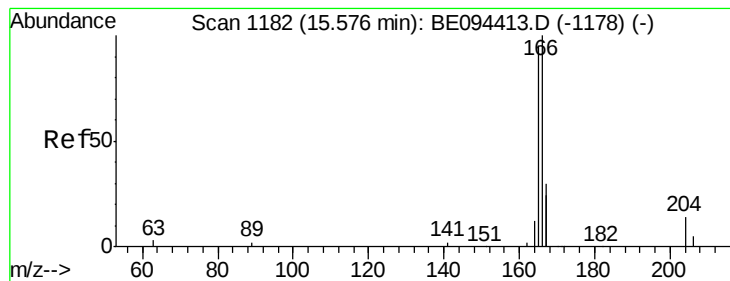


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#18

Fluorene

Concen: 0.413 ng

RT: 15.58 min Scan# 1183

Delta R.T. 0.00 min

Lab File: BE094419.D

Acq: 16 Oct 2017 16:11

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

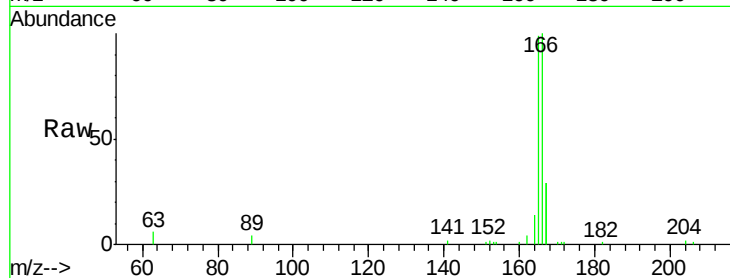
Tgt Ion:166 Resp: 7246

Ion Ratio Lower Upper

166 100

165 96.5 77.8 116.6

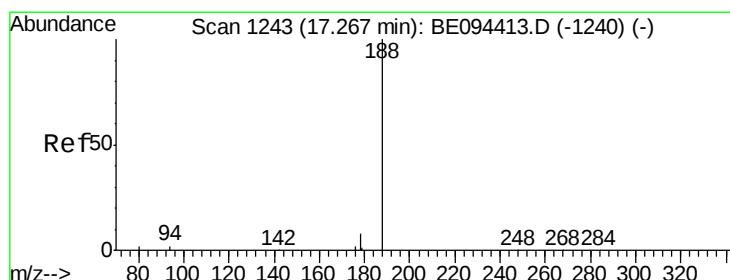
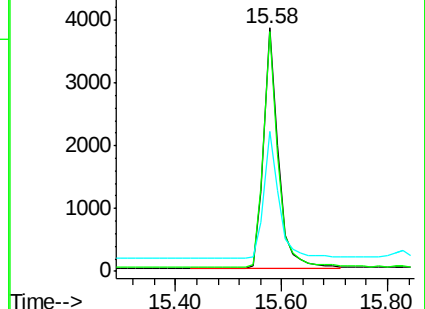
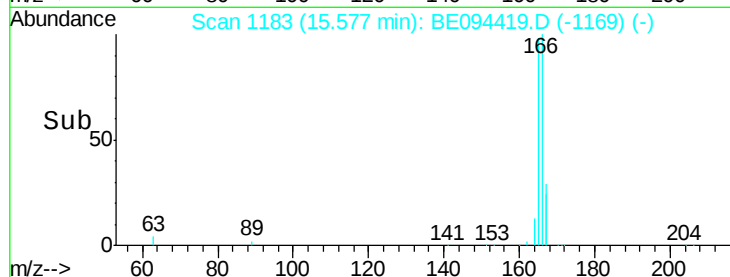
167 54.2 42.4 63.6



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: BE094419.D

Acq: 16 Oct 2017 16:11

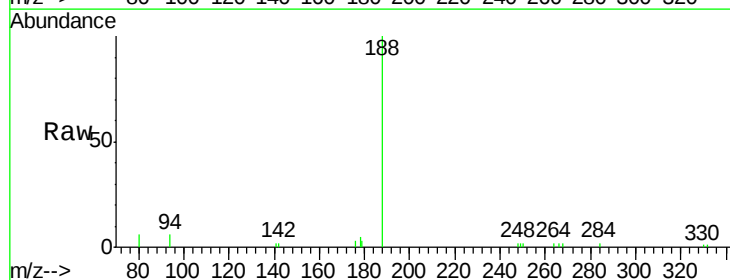
Tgt Ion:188 Resp: 7920

Ion Ratio Lower Upper

188 100

94 5.9 3.9 5.9#

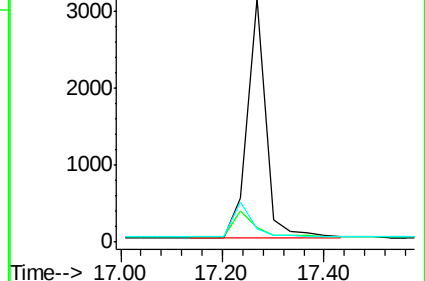
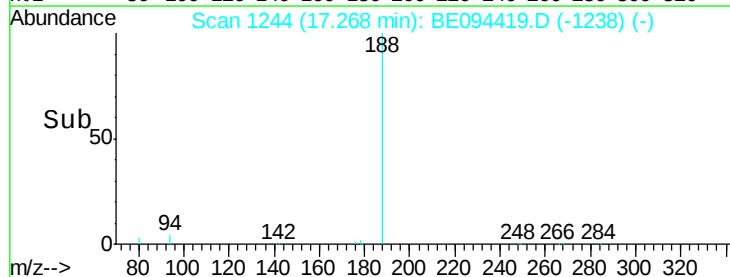
80 5.7 3.6 5.4#

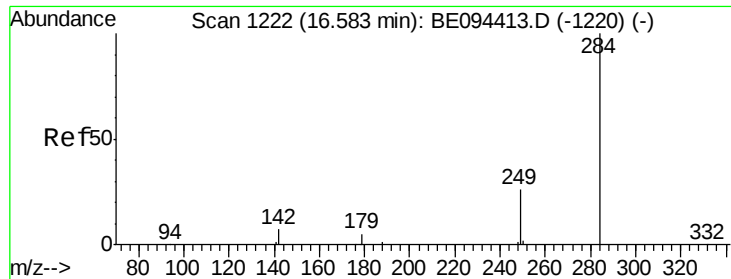


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

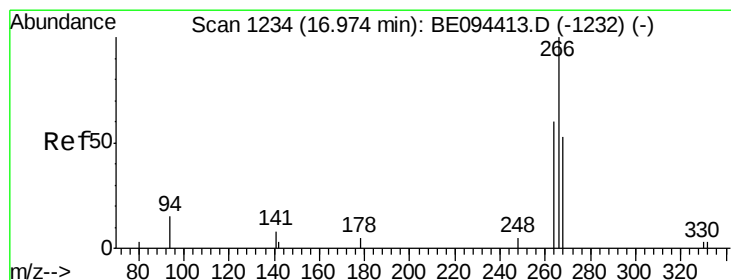
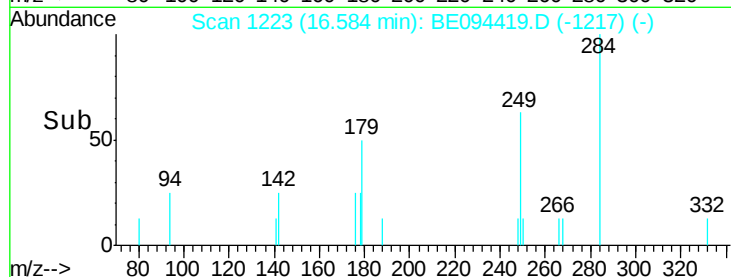
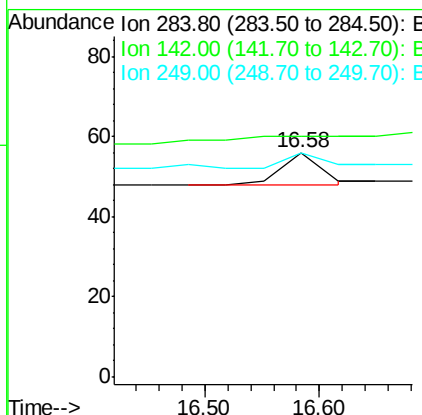
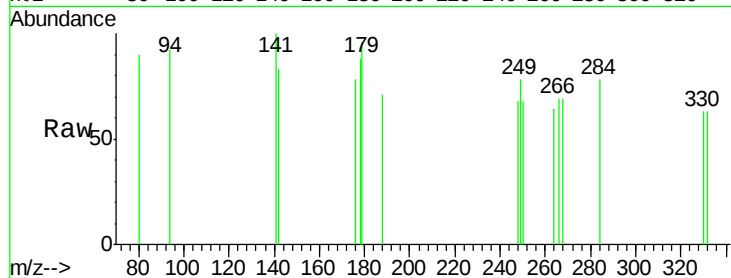




#21
Hexachlorobenzene
Concen: 0.029 ng
RT: 16.58 min Scan# 1223
Delta R.T. 0.00 min
Lab File: BE094419.D
Acq: 16 Oct 2017 16:11

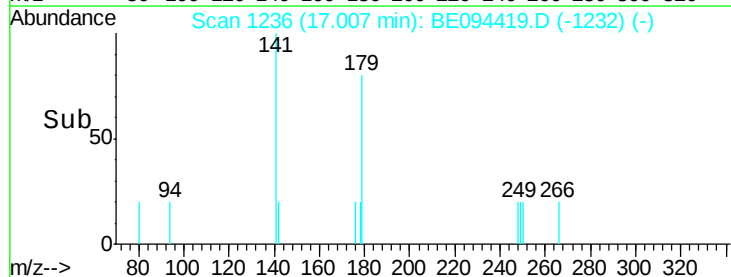
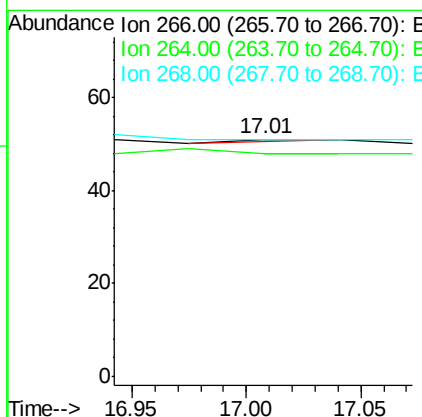
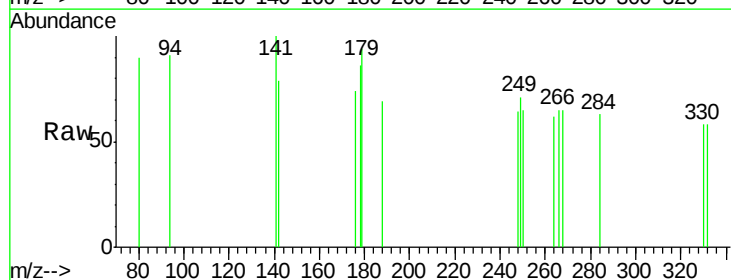
Instrument :
BNA_E
ClientSampleId :
RR-PAH-WPDL

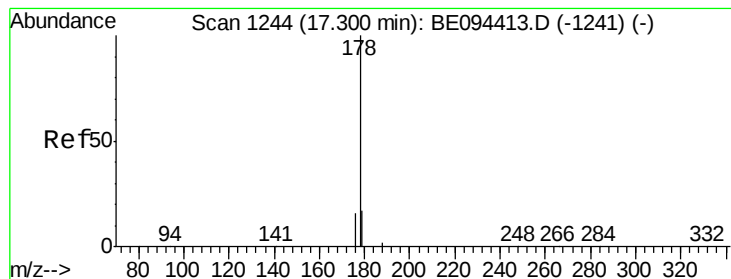
Tgt Ion: 284 Resp: 20
Ion Ratio Lower Upper
284 100
142 0.0 22.1 33.1#
249 60.0 34.8 52.2#



#22
Pentachlorophenol
Concen: 0.159 ng
RT: 17.01 min Scan# 1236
Delta R.T. 0.03 min
Lab File: BE094419.D
Acq: 16 Oct 2017 16:11

Tgt Ion: 266 Resp: 2
Ion Ratio Lower Upper
266 100
264 94.1 72.5 108.7
268 100.0 73.8 110.6





#23

Phenanthrene

Concen: 0.211 ng

RT: 17.30 min Scan# 1245

Delta R.T. 0.00 min

Lab File: BE094419.D

Acq: 16 Oct 2017 16:11

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

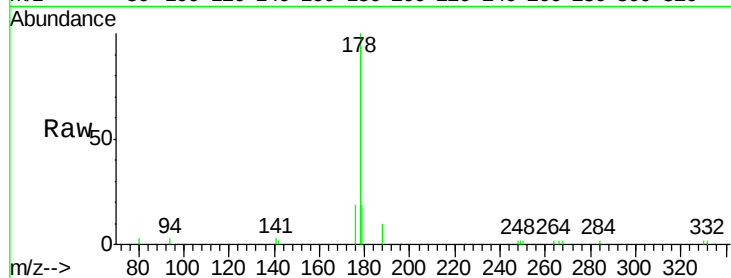
Tgt Ion:178 Resp: 6567

Ion Ratio Lower Upper

178 100

176 18.4 15.1 22.7

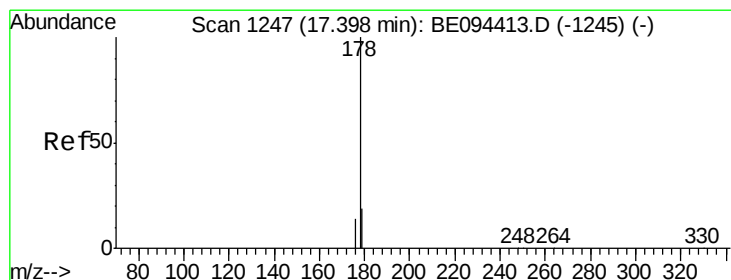
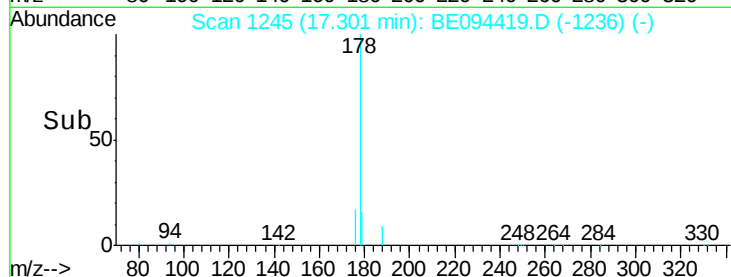
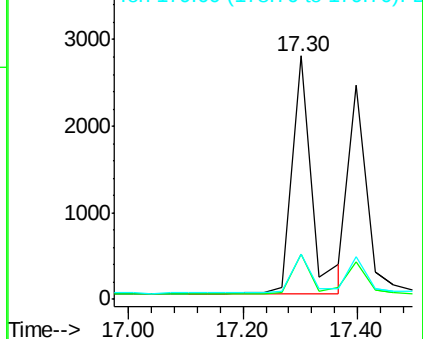
179 17.0 11.8 17.6



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



#24

Anthracene

Concen: 0.222 ng

RT: 17.40 min Scan# 1248

Delta R.T. 0.00 min

Lab File: BE094419.D

Acq: 16 Oct 2017 16:11

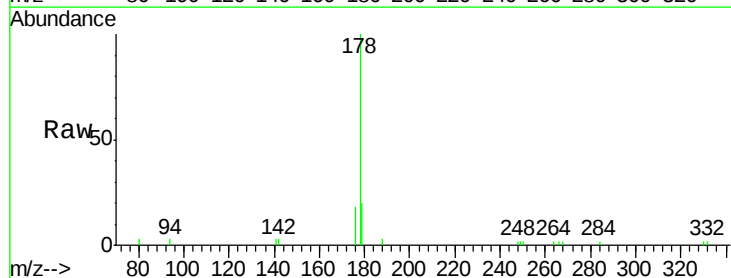
Tgt Ion:178 Resp: 5339

Ion Ratio Lower Upper

178 100

176 16.0 12.8 19.2

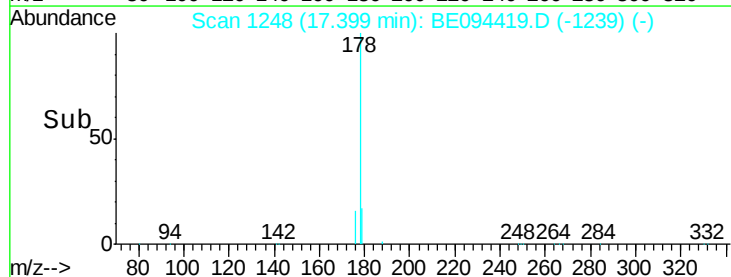
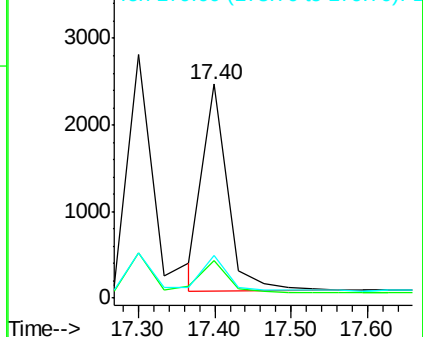
179 17.6 13.0 19.6

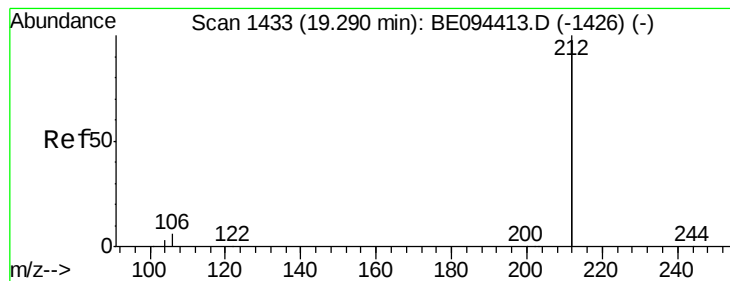


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.039 ng

RT: 19.29 min Scan# 1434

Delta R.T. -0.00 min

Lab File: BE094419.D

Acq: 16 Oct 2017 16:11

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

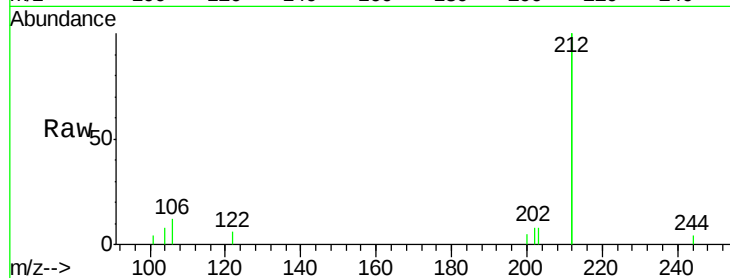
Tgt Ion:212 Resp: 5000

Ion Ratio Lower Upper

212 100

106 4.9 2.8 4.2#

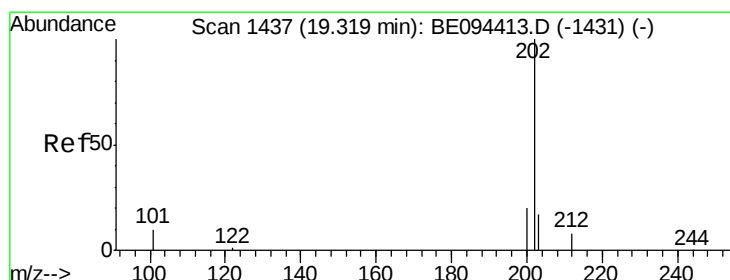
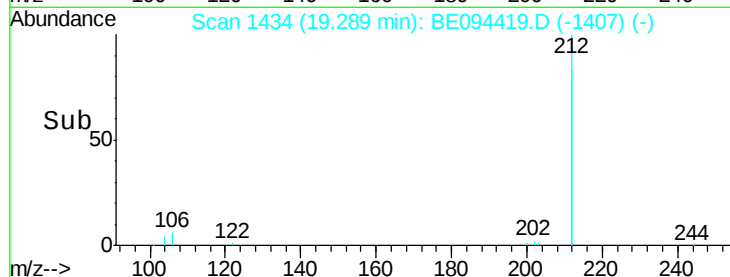
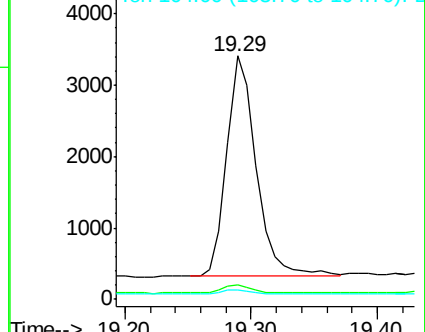
104 1.9 1.6 2.4



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: 0.066 ng

RT: 19.32 min Scan# 1438

Delta R.T. -0.00 min

Lab File: BE094419.D

Acq: 16 Oct 2017 16:11

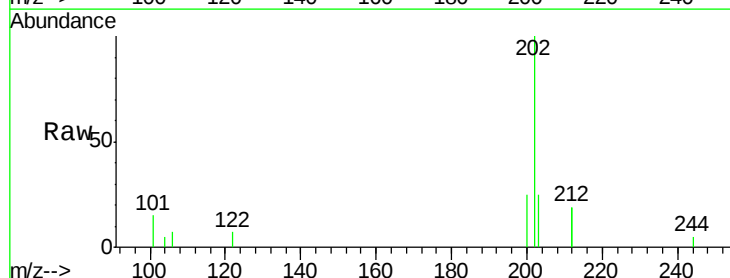
Tgt Ion:202 Resp: 2557

Ion Ratio Lower Upper

202 100

101 11.3 9.8 14.8

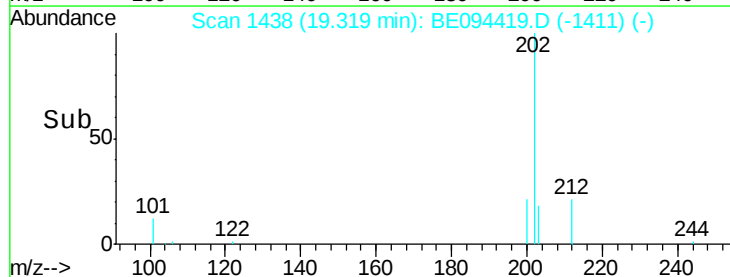
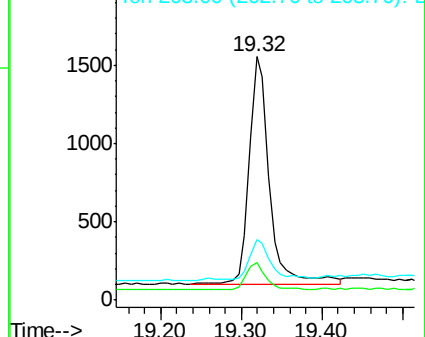
203 18.0 13.7 20.5

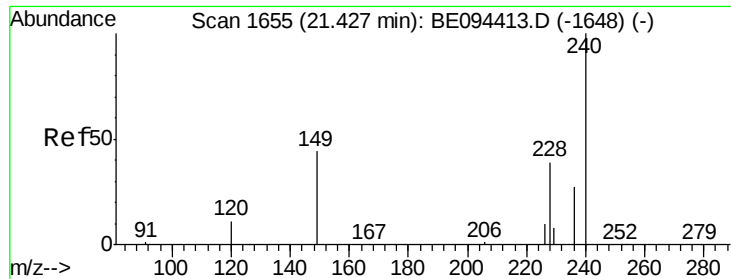


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

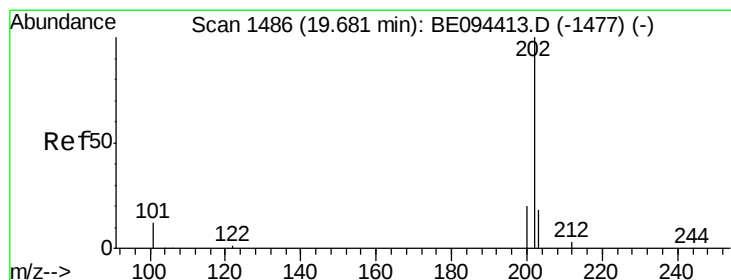
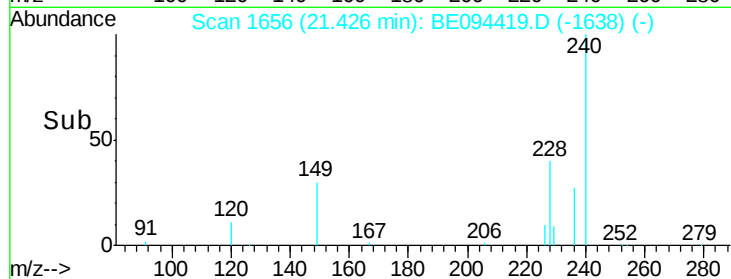
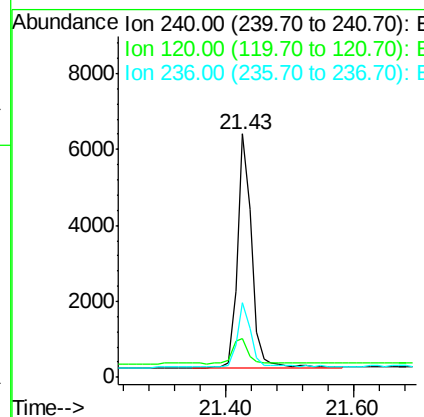
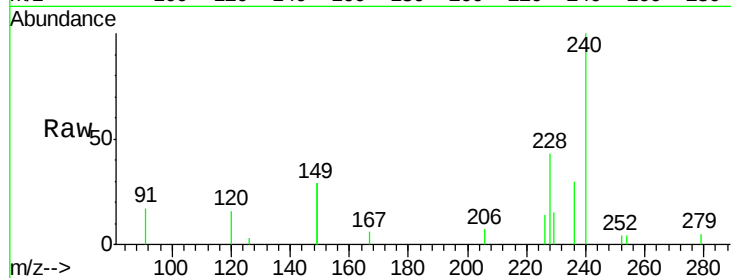




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.43 min Scan# 1656
 Delta R.T. -0.00 min
 Lab File: BE094419.D
 Acq: 16 Oct 2017 16:11

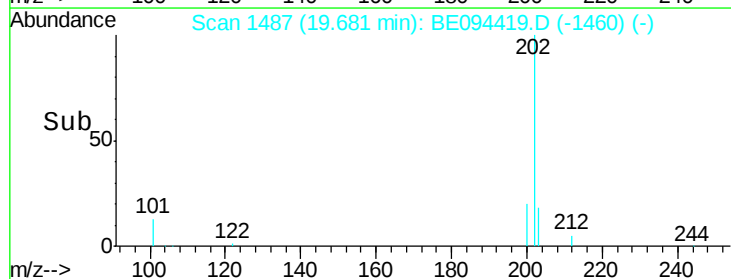
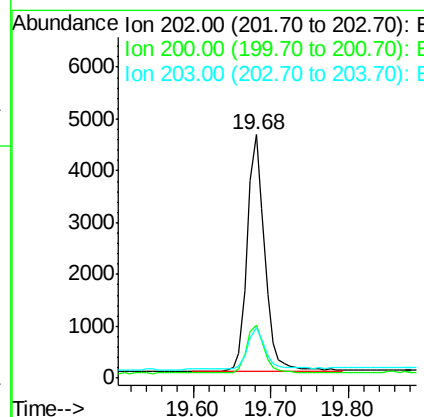
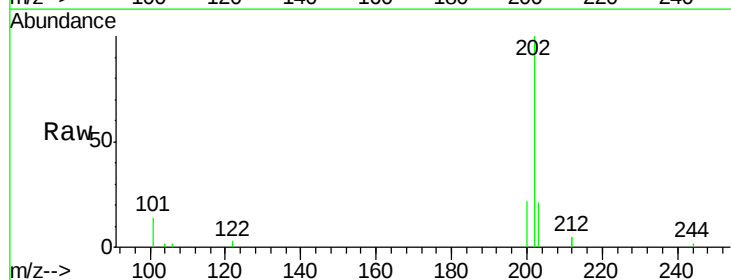
Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WPDL

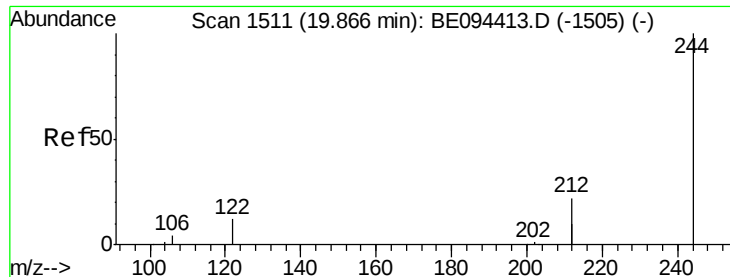
Tgt Ion:240 Resp: 9604
 Ion Ratio Lower Upper
 240 100
 120 16.1 5.5 8.3#
 236 30.5 20.7 31.1



#28
 Pyrene
 Concen: 0.201 ng
 RT: 19.68 min Scan# 1487
 Delta R.T. -0.00 min
 Lab File: BE094419.D
 Acq: 16 Oct 2017 16:11

Tgt Ion:202 Resp: 7273
 Ion Ratio Lower Upper
 202 100
 200 20.9 16.6 25.0
 203 20.4 13.8 20.8





#29

Terphenyl-d14

Concen: 0.052 ng

RT: 19.87 min Scan# 1512

Delta R.T. -0.00 min

Lab File: BE094419.D

Acq: 16 Oct 2017 16:11

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

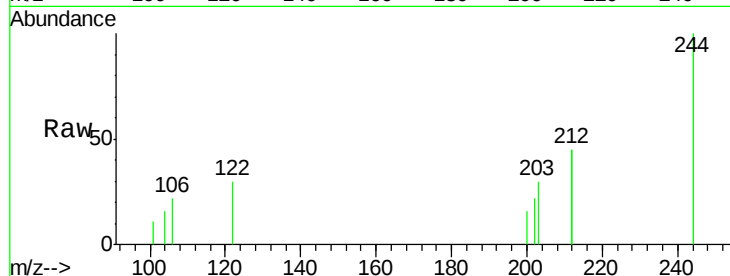
Tgt Ion:244 Resp: 1003

Ion Ratio Lower Upper

244 100

212 90.8 25.4 38.0#

122 30.1 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

19.87

800

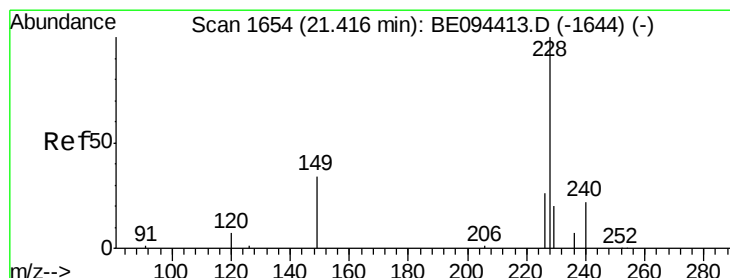
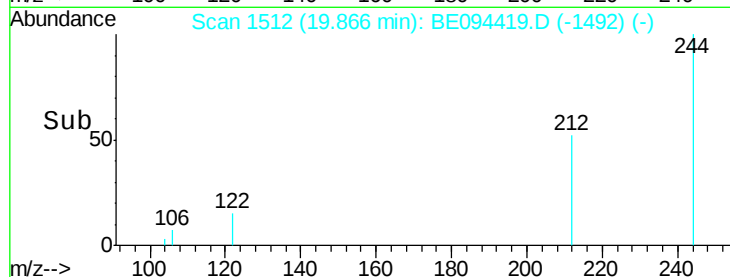
600

400

200

0

Time-->



#30

Benzo(a)anthracene

Concen: 0.382 ng

RT: 21.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: BE094419.D

Acq: 16 Oct 2017 16:11

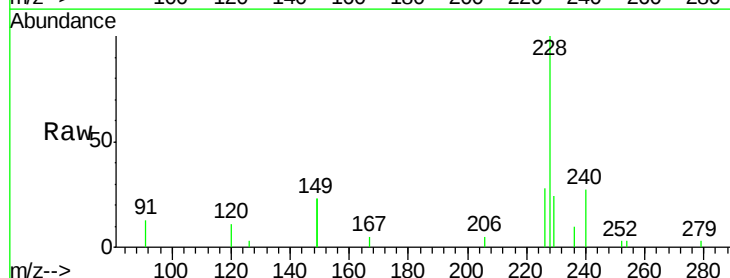
Tgt Ion:228 Resp: 12683

Ion Ratio Lower Upper

228 100

226 28.5 40.0 60.0#

229 24.5 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

21.41

10000

8000

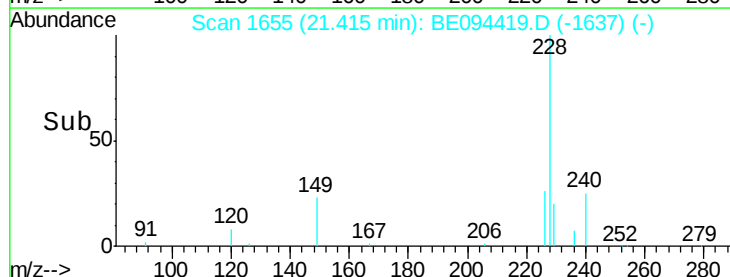
6000

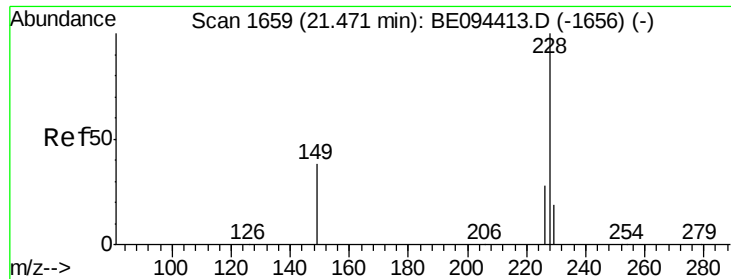
4000

2000

0

Time-->





#31

Chrysene

Concen: 0.306 ng

RT: 21.47 min Scan# 1660

Delta R.T. -0.00 min

Lab File: BE094419.D

Acq: 16 Oct 2017 16:11

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

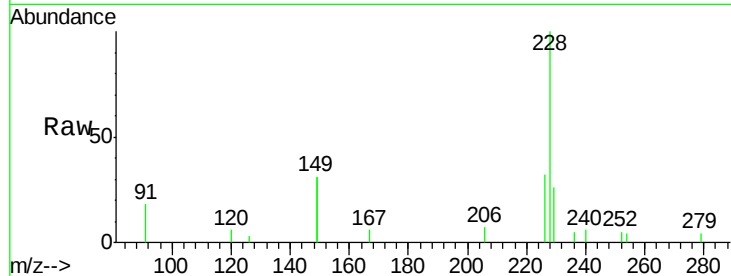
Tgt Ion: 228 Resp: 9775

Ion Ratio Lower Upper

228 100

226 31.6 40.0 60.0#

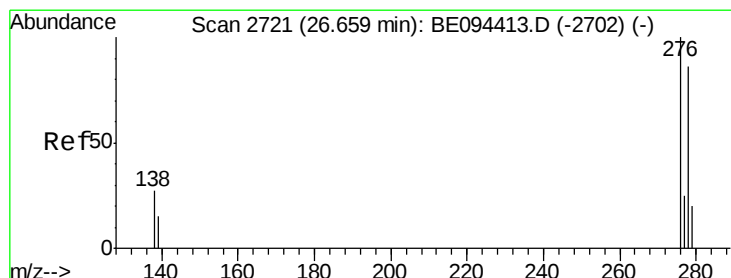
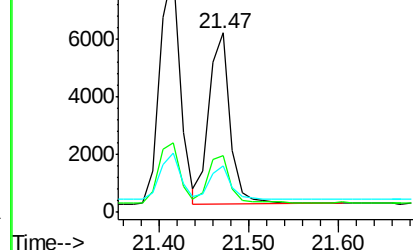
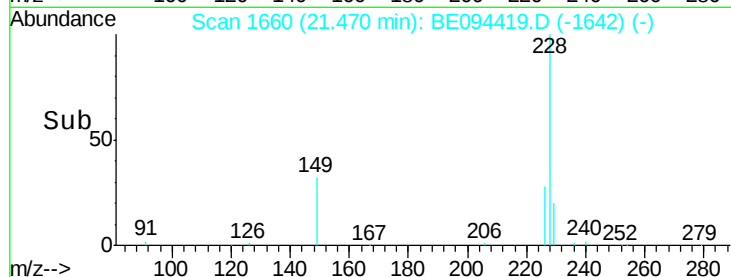
229 25.6 40.0 60.0#



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: 0.074 ng

RT: 26.65 min Scan# 2720

Delta R.T. -0.01 min

Lab File: BE094419.D

Acq: 16 Oct 2017 16:11

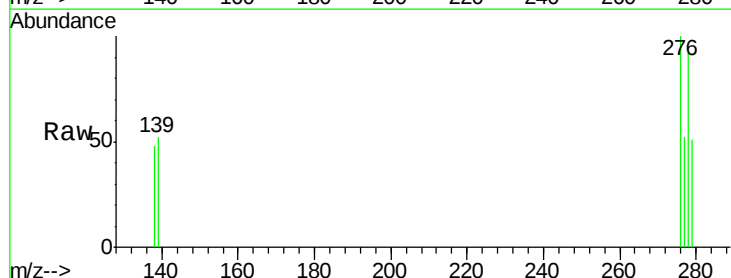
Tgt Ion: 276 Resp: 2397

Ion Ratio Lower Upper

276 100

138 27.9 22.5 33.7

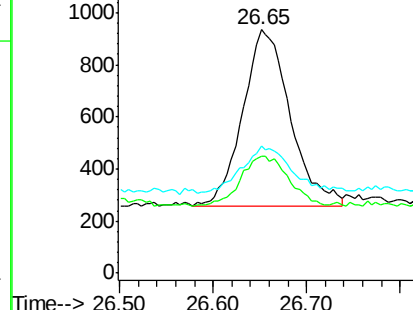
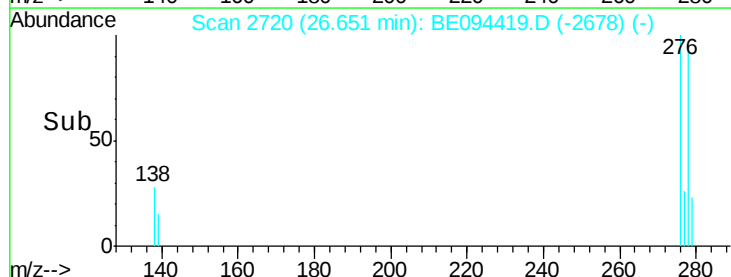
277 26.3 19.9 29.9

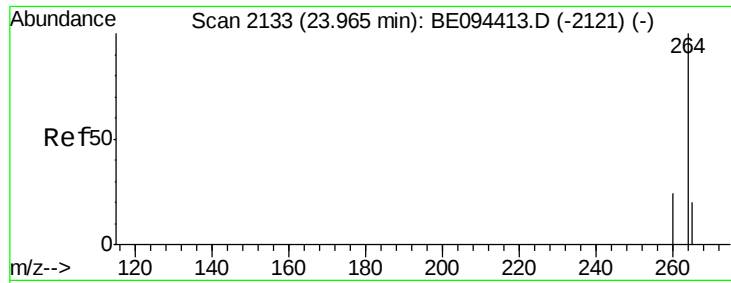


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

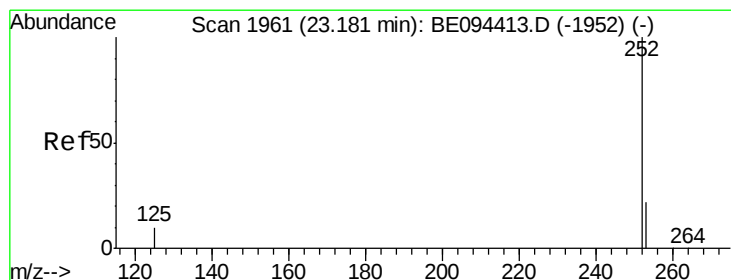
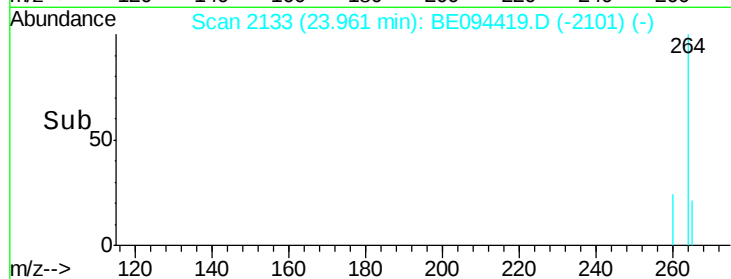
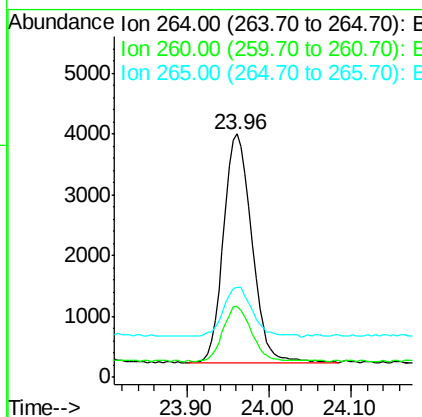
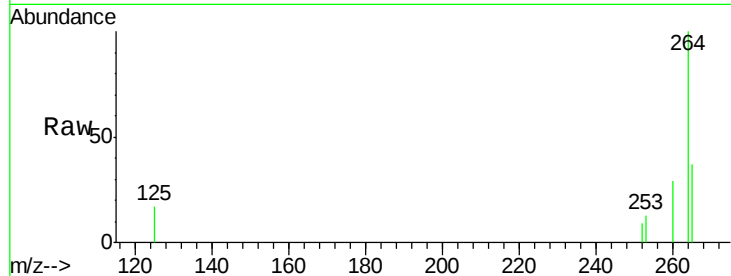




#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.96 min Scan# 2133
 Delta R.T. -0.00 min
 Lab File: BE094419.D
 Acq: 16 Oct 2017 16:11

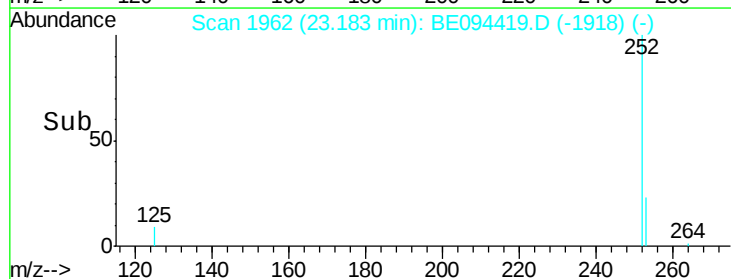
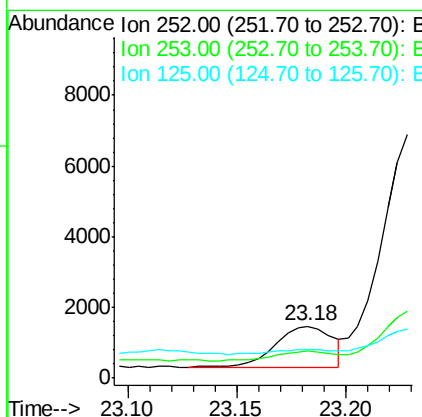
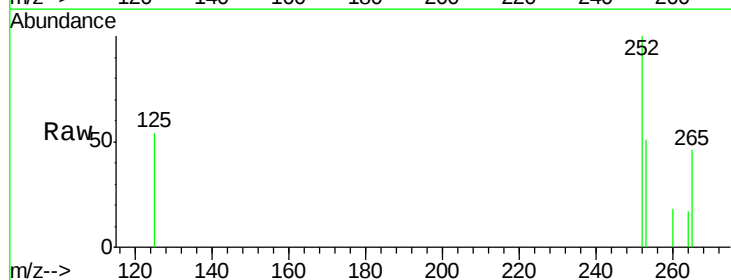
Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WPDL

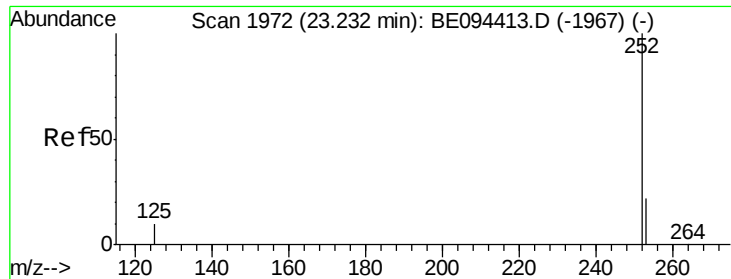
Tgt Ion: 264 Resp: 9001
 Ion Ratio Lower Upper
 264 100
 260 29.3 20.5 30.7
 265 37.0 22.8 34.2#



#35
 Benzo(b)fluoranthene
 Concen: 0.068 ng
 RT: 23.18 min Scan# 1962
 Delta R.T. 0.00 min
 Lab File: BE094419.D
 Acq: 16 Oct 2017 16:11

Tgt Ion: 252 Resp: 2070
 Ion Ratio Lower Upper
 252 100
 253 51.3 48.0 72.0
 125 54.4 56.0 84.0#

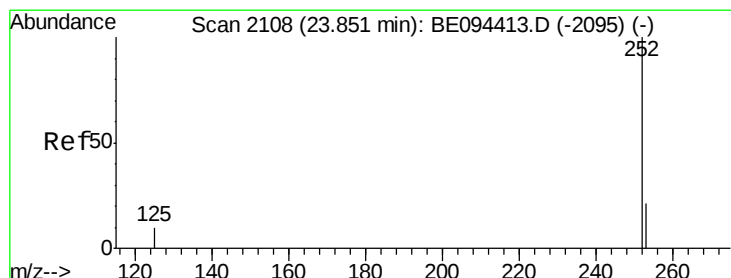
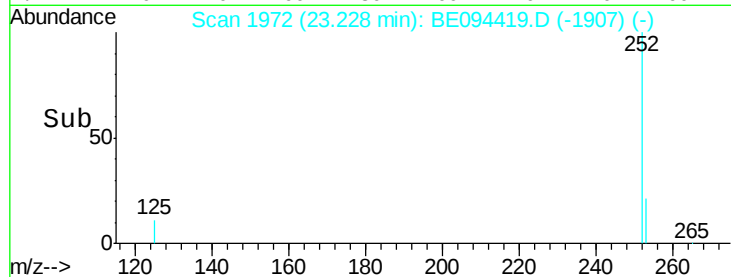
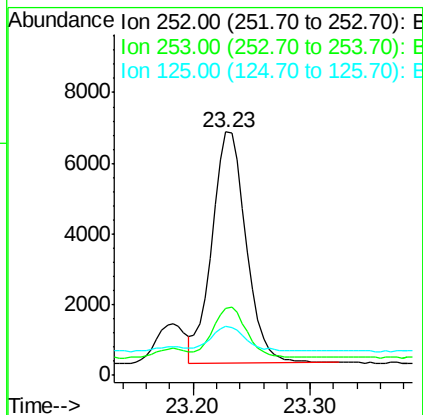
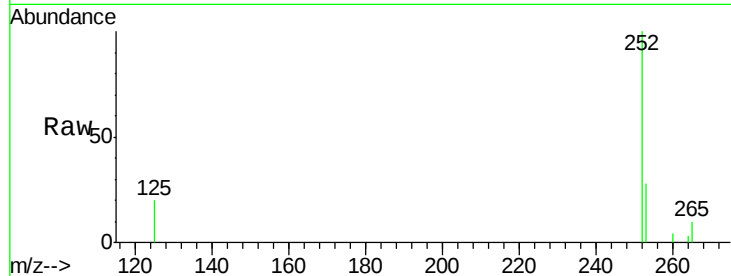




#36
Benzo(k)fluoranthene
Concen: 0.442 ng
RT: 23.23 min Scan# 1972
Delta R.T. -0.00 min
Lab File: BE094419.D
Acq: 16 Oct 2017 16:11

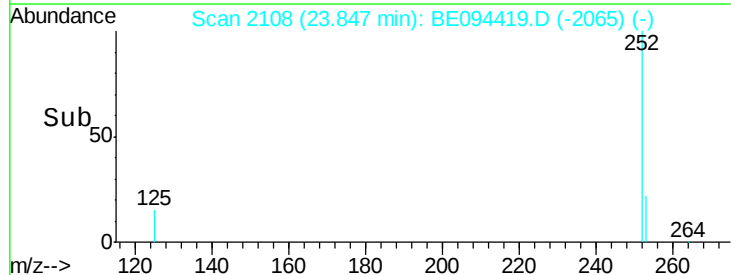
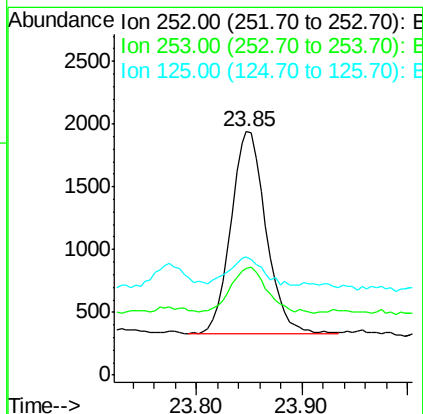
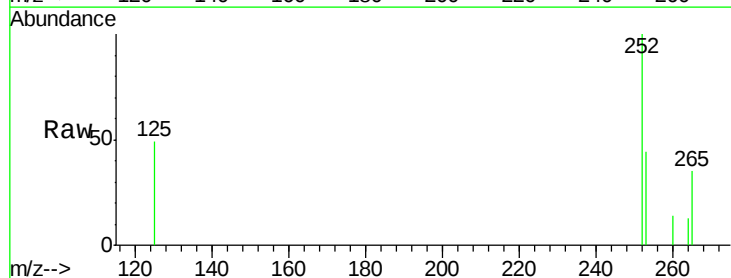
Instrument :
BNA_E
ClientSampleId :
RR-PAH-WPDL

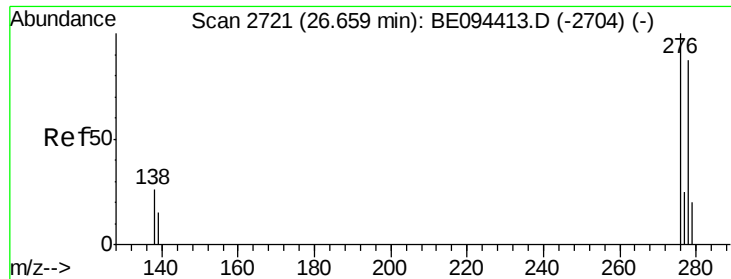
Tgt Ion: 252 Resp: 13287
Ion Ratio Lower Upper
252 100
253 27.6 48.0 72.0#
125 20.1 56.0 84.0#



#37
Benzo(a)pyrene
Concen: 0.129 ng
RT: 23.85 min Scan# 2108
Delta R.T. -0.00 min
Lab File: BE094419.D
Acq: 16 Oct 2017 16:11

Tgt Ion: 252 Resp: 3702
Ion Ratio Lower Upper
252 100
253 44.0 52.0 78.0#
125 48.7 68.0 102.0#





#38

Dibenzo(a,h)anthracene

Concen: 0.091 ng

RT: 26.66 min Scan# 2723

Delta R.T. 0.01 min

Lab File: BE094419.D

Acq: 16 Oct 2017 16:11

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WPDL

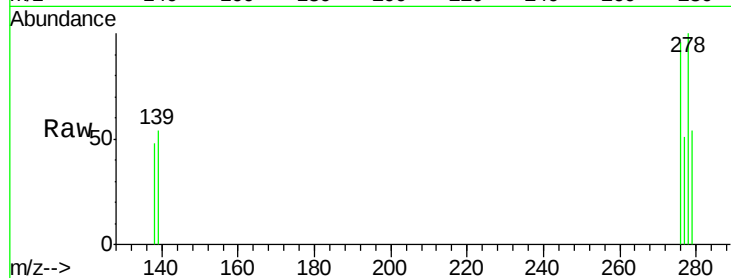
Tgt Ion:278 Resp: 2464

Ion Ratio Lower Upper

278 100

139 54.1 56.0 84.0#

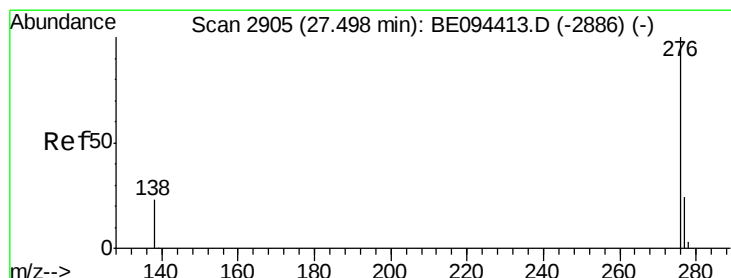
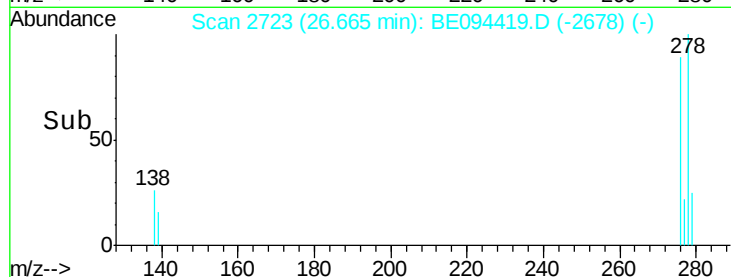
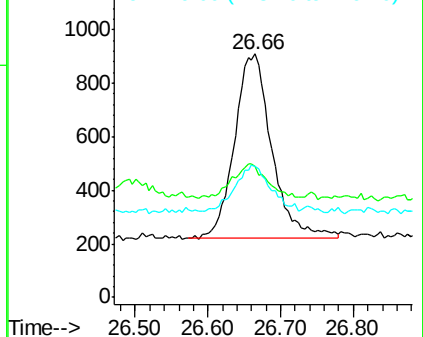
279 53.8 52.0 78.0



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: 0.352 ng

RT: 27.49 min Scan# 2905

Delta R.T. -0.00 min

Lab File: BE094419.D

Acq: 16 Oct 2017 16:11

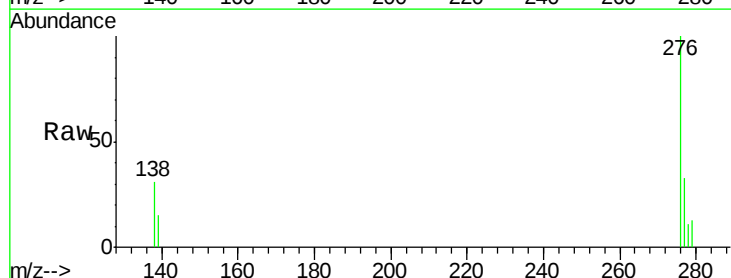
Tgt Ion:276 Resp: 9195

Ion Ratio Lower Upper

276 100

277 33.4 52.0 78.0#

138 31.2 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

