

Data Path : Z:\HPCHEM1\BNA E\DATA\BE120517\
 Data File : BE094936.D
 Acq On : 6 Dec 2017 3:58
 Operator : SJ/JU
 Sample : I6698-14
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 FT-DUP03-20171130

Quant Time: Dec 06 06:31:01 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 01 13:33:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.48	152	8651	0.40	ng	0.00
7) Naphthalene-d8	11.33	136	18527	0.40	ng	0.00
13) Acenaphthene-d10	15.06	164	10808	0.40	ng	-0.02
19) Phenanthrene-d10	17.77	188	26499	0.40	ng	0.00
27) Chrysene-d12	21.87	240	28195	0.40	ng	-0.01
34) Perylene-d12	24.55	264	23331	0.40	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.95	112	2577	0.19	ng	0.00
5) Phenol-d6	7.60	99	2340	0.12	ng	0.01
8) Nitrobenzene-d5	9.67	82	5744	0.52	ng	0.00
11) 2-Methylnaphthalene-d10	12.87	152	11919	0.40	ng	0.00
14) 2,4,6-Tribromophenol	16.53	330	1315	0.55	ng	0.00
15) 2-Fluorobiphenyl	13.71	172	18644	0.40	ng	0.00
25) Fluoranthene-d10	19.75	212	142694	0.39	ng	0.00
29) Terphenyl-d14	20.31	244	28676	0.55	ng	-0.01

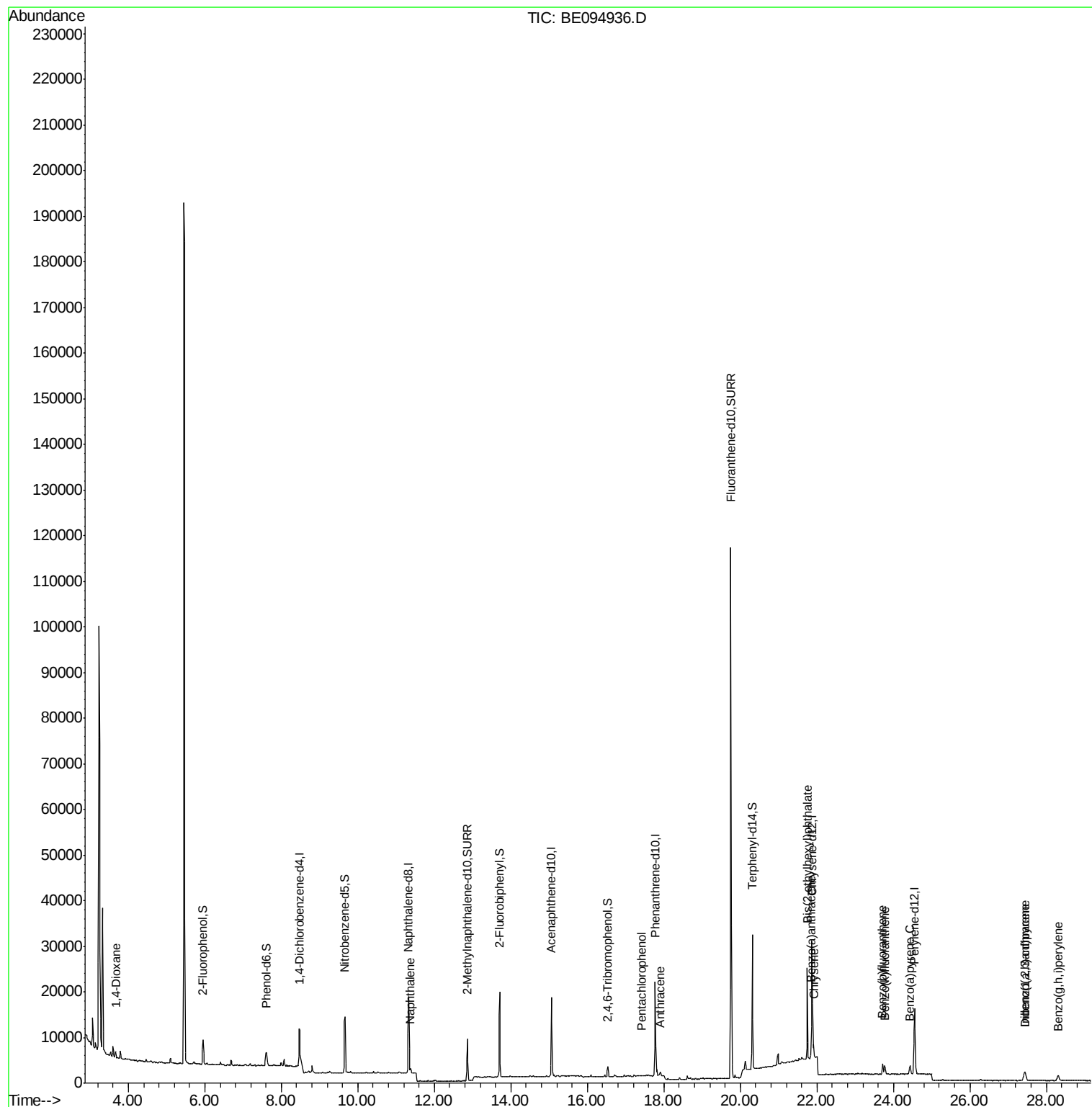
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.67	88	992	0.110	ng	# 53
9) Naphthalene	11.38	128	4609	0.021	ng	# 83
22) Pentachlorophenol	17.41	266	83	0.151	ng	97
24) Anthracene	17.91	178	1958	0.022	ng	# 84
30) Benzo(a)anthracene	21.86	228	3194	0.037	ng	# 66
31) Chrysene	21.92	228	3687	0.039	ng	# 69
32) Bis(2-ethylhexyl)phthalate	21.75	149	23377	0.163	ng	100
33) Indeno(1,2,3-cd)pyrene	27.43	276	3038	0.039	ng	95
35) Benzo(b)fluoranthene	23.72	252	3259	0.038	ng	# 63
36) Benzo(k)fluoranthene	23.77	252	2735	0.031	ng	# 59
37) Benzo(a)pyrene	24.43	252	2757	0.037	ng	# 71
38) Dibenzo(a,h)anthracene	27.44	278	2527	0.037	ng	# 68
39) Benzo(a,h,i)perylene	28.30	276	2810	0.041	ng	# 61

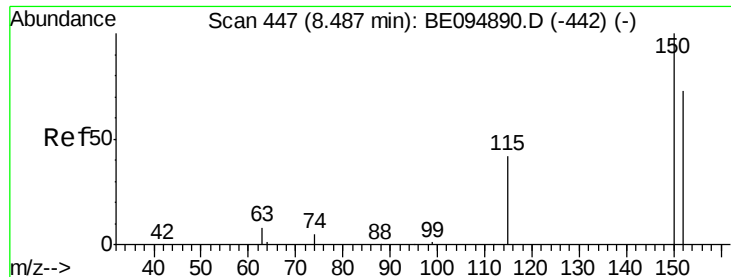
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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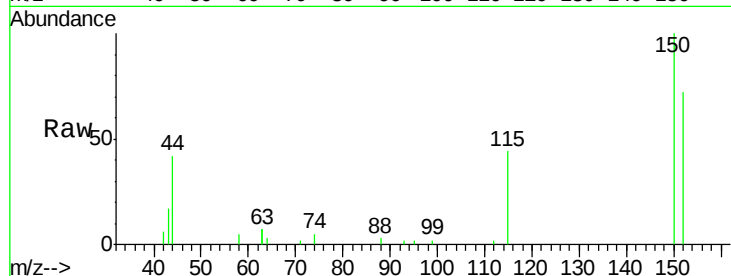


#1

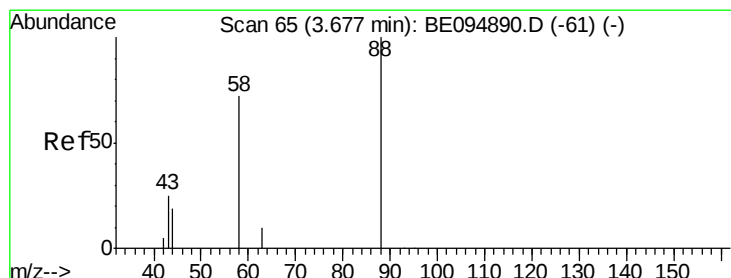
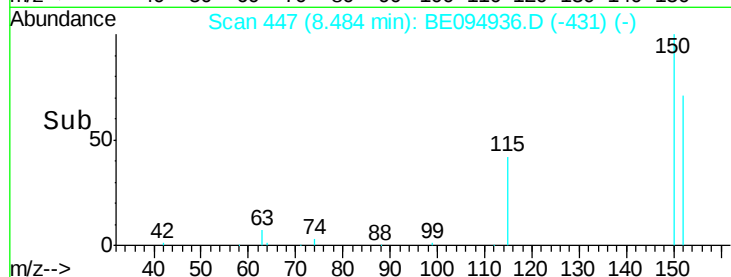
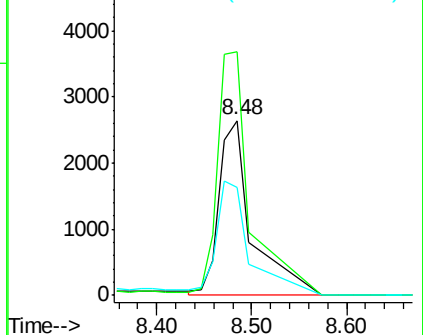
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.48 min Scan# 447
Delta R.T. -0.00 min
Lab File: BE094936.D
Acq: 6 Dec 2017 3:58

Instrument :
BNA_E
ClientSampleId :
FT-DUP03-20171130

Tot Ion:152 Resp: 8651
Ion Ratio Lower Upper
152 100
150 139.0 117.2 175.8
115 61.4 57.0 85.6



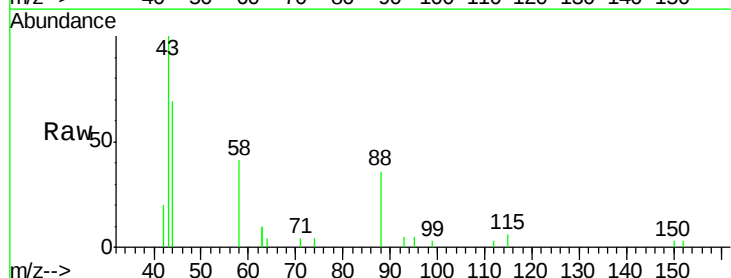
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



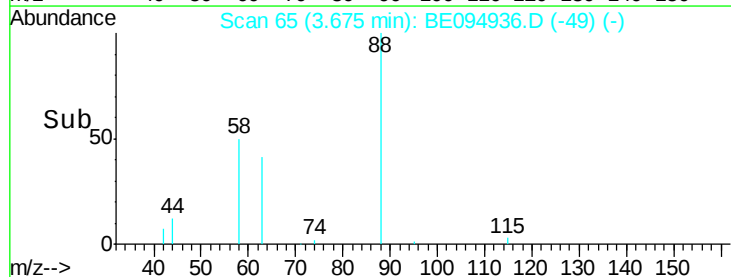
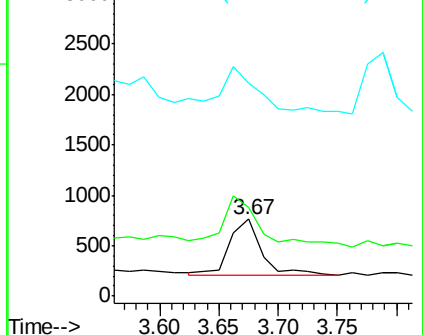
#2

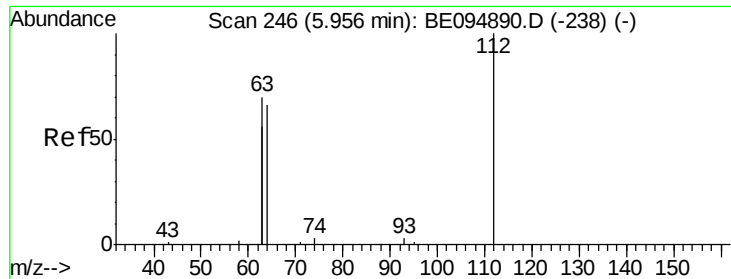
1,4-Dioxane
Concen: 0.110 ng
RT: 3.67 min Scan# 65
Delta R.T. -0.00 min
Lab File: BE094936.D
Acq: 6 Dec 2017 3:58

Tgt Ion: 88 Resp: 992
Ion Ratio Lower Upper
88 100
58 115.6 63.2 94.8#
43 89.8 41.2 61.8#



Abundance Ion 88.00 (87.70 to 88.70): BE0
Ion 58.00 (57.70 to 58.70): BE0
Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 0.188 ng

RT: 5.95 min Scan# 246

Delta R.T. -0.00 min

Lab File: BE094936.D

Acq: 6 Dec 2017 3:58

Instrument :

BNA_E

ClientSampleId :

FT-DUP03-20171130

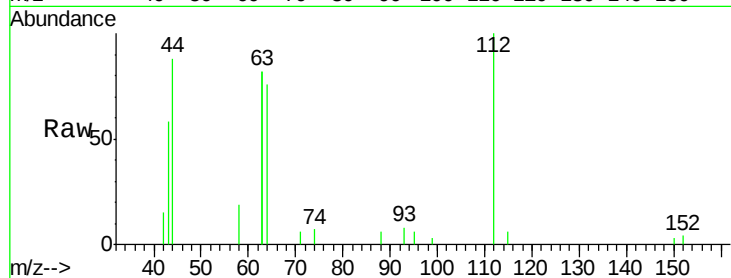
Tot Ion:112 Resp: 2577

Ion Ratio Lower Upper

112 100

64 77.6 60.1 90.1

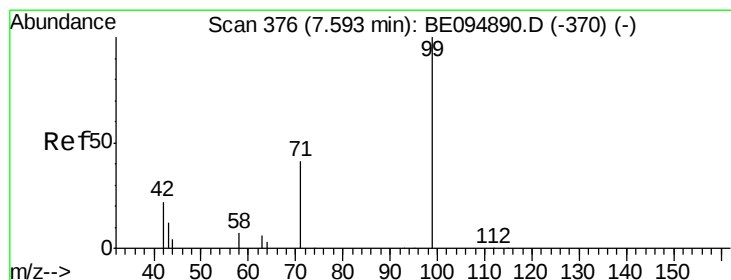
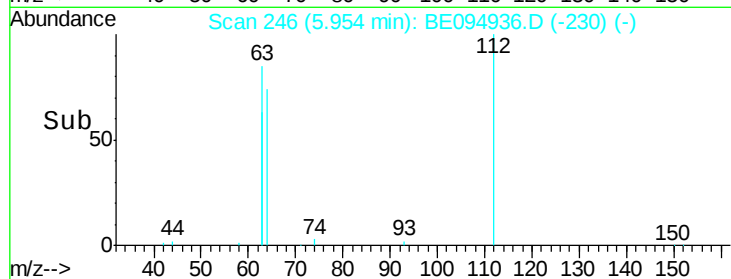
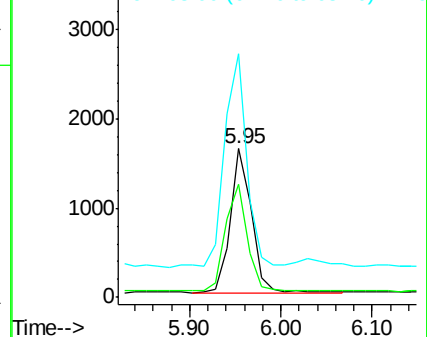
63 157.3 116.8 175.2



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 0.115 ng

RT: 7.60 min Scan# 377

Delta R.T. 0.01 min

Lab File: BE094936.D

Acq: 6 Dec 2017 3:58

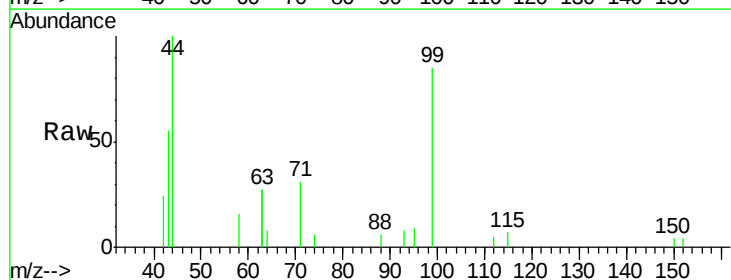
Tgt Ion: 99 Resp: 2340

Ion Ratio Lower Upper

99 100

42 32.6 20.2 30.2#

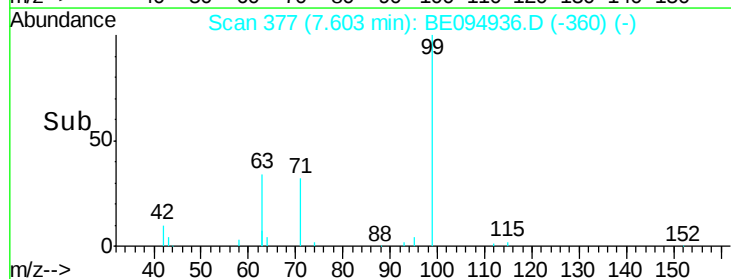
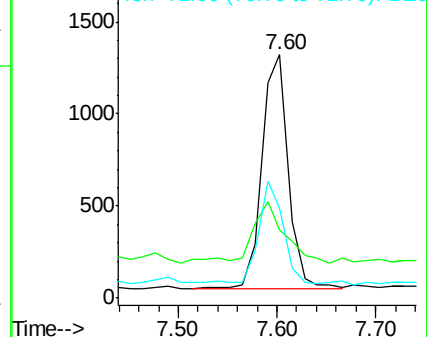
71 40.7 28.4 42.6

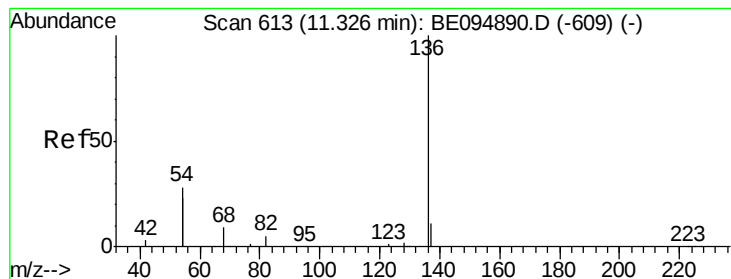


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.33 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE094936.D

Acq: 6 Dec 2017 3:58

Instrument :

BNA_E

ClientSampleId :

FT-DUP03-20171130

Tot Ion:136 Resp: 18527

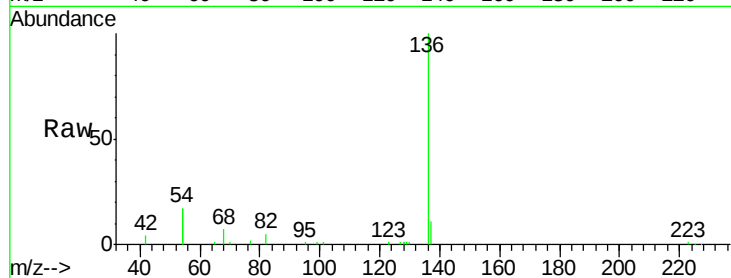
Ion Ratio Lower Upper

136 100

137 11.0 9.5 14.3

54 34.6 29.1 43.7

68 7.0 6.2 9.2

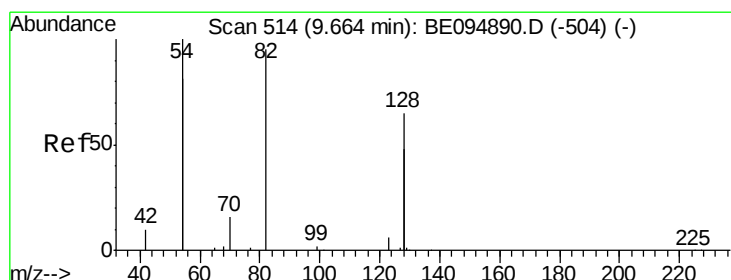
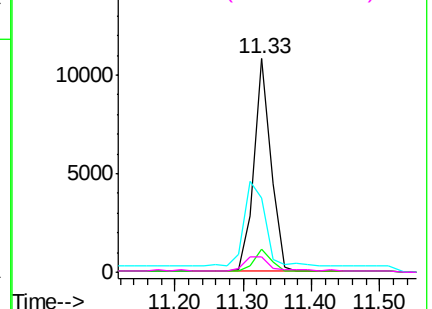
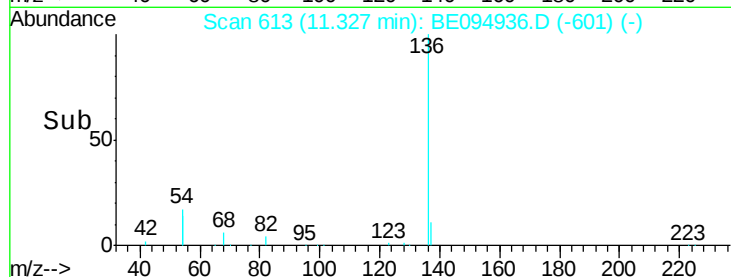


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.524 ng

RT: 9.67 min Scan# 514

Delta R.T. 0.00 min

Lab File: BE094936.D

Acq: 6 Dec 2017 3:58

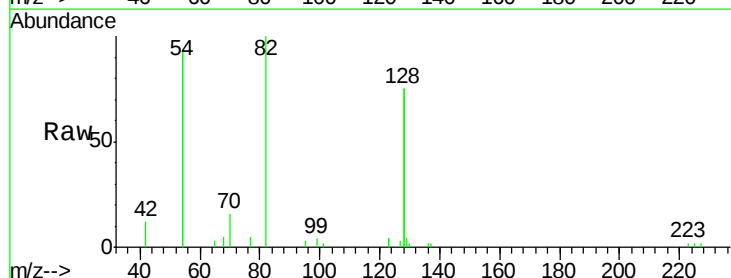
Tgt Ion: 82 Resp: 5744

Ion Ratio Lower Upper

82 100

128 150.3 150.0 225.0

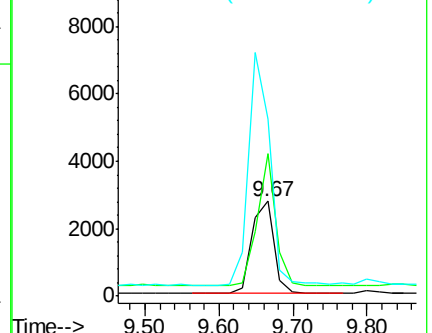
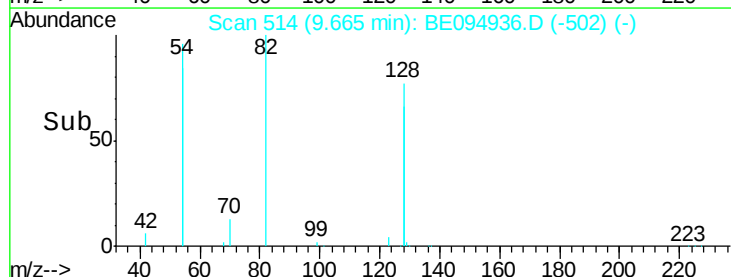
54 186.2 154.2 231.4

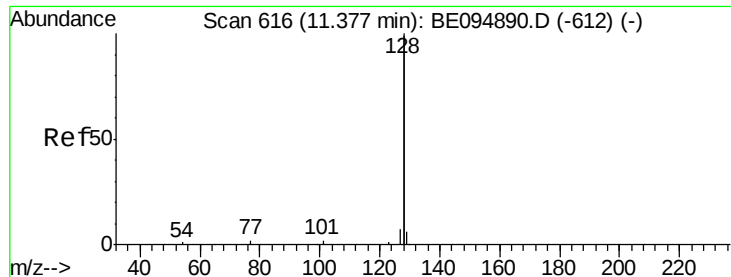


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.021 ng

RT: 11.38 min Scan# 616

Delta R.T. 0.00 min

Lab File: BE094936.D

Acq: 6 Dec 2017 3:58

Instrument :

BNA_E

ClientSampleId :

FT-DUP03-20171130

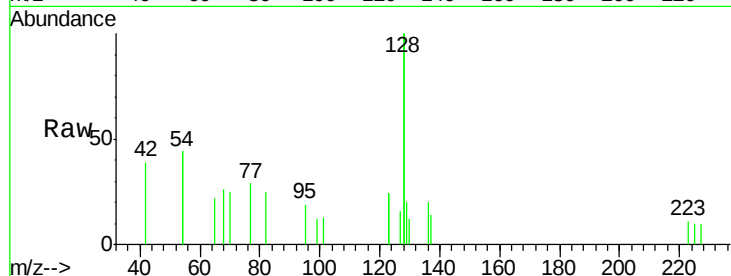
Tot Ion:128 Resp: 4609

Ion Ratio Lower Upper

128 100

129 10.1 2.6 3.8#

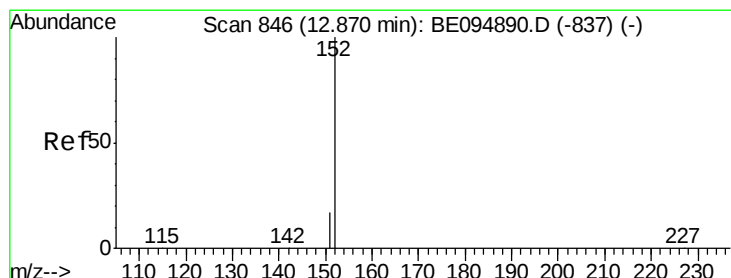
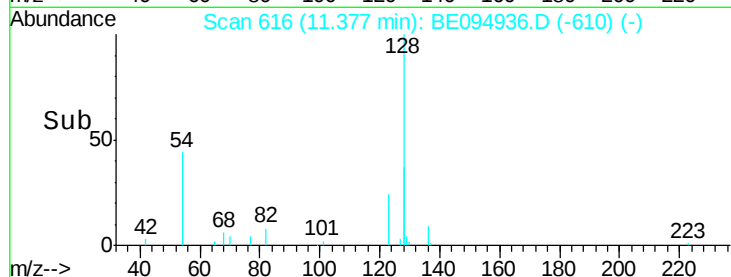
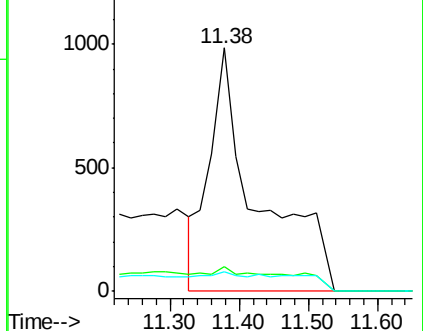
127 7.9 2.8 4.2#



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: 0.403 ng

RT: 12.87 min Scan# 845

Delta R.T. -0.00 min

Lab File: BE094936.D

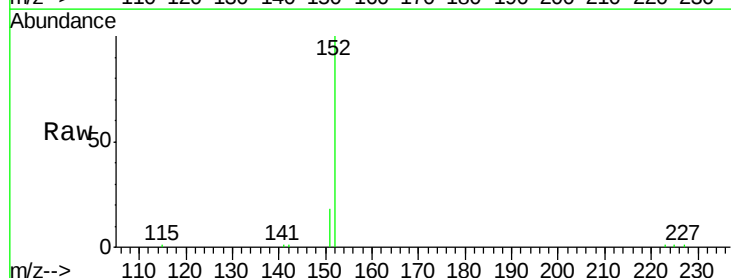
Acq: 6 Dec 2017 3:58

Tgt Ion:152 Resp: 11919

Ion Ratio Lower Upper

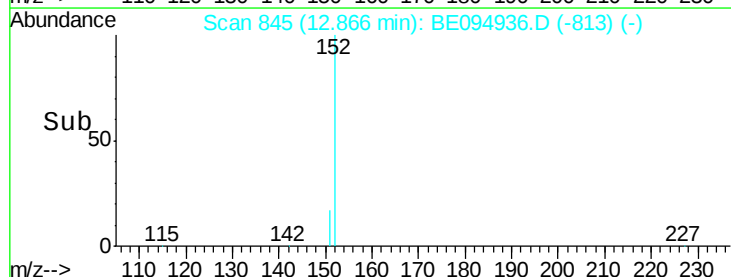
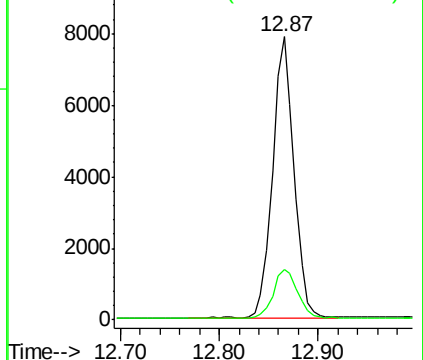
152 100

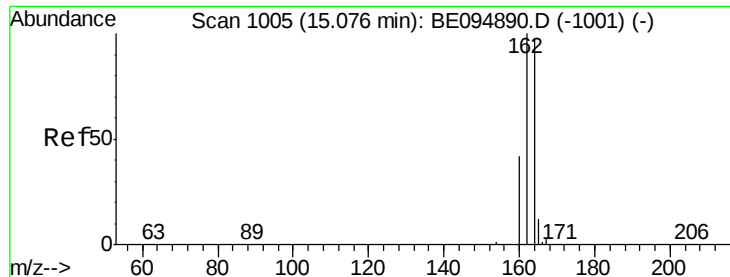
151 19.6 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 15.06 min Scan# 1004

Delta R.T. -0.02 min

Lab File: BE094936.D

Acq: 6 Dec 2017 3:58

Instrument :

BNA_E

ClientSampleId :

FT-DUP03-20171130

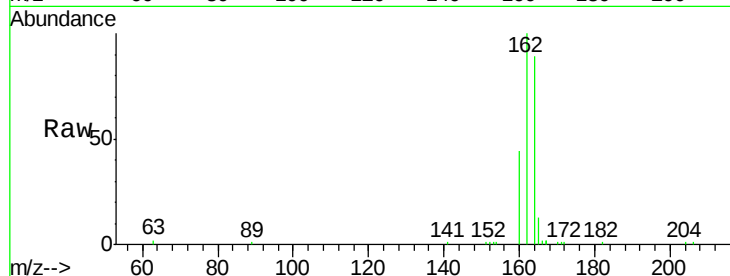
Tot Ion:164 Resp: 10808

Ion Ratio Lower Upper

164 100

162 112.2 83.1 124.7

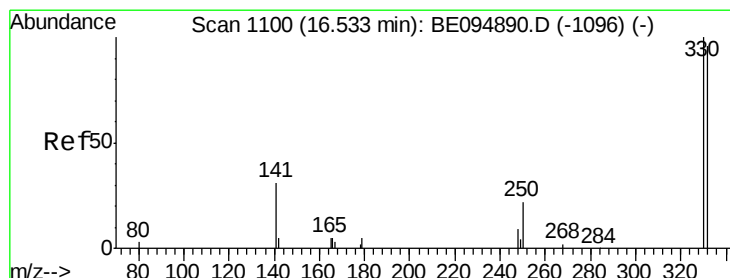
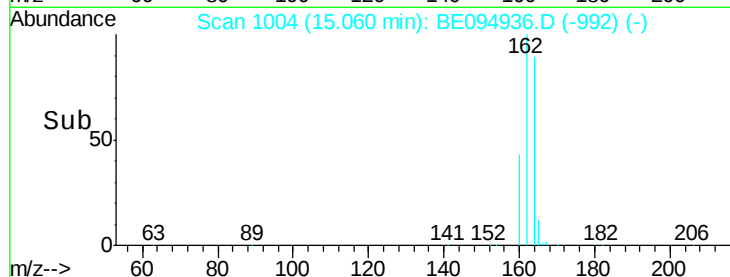
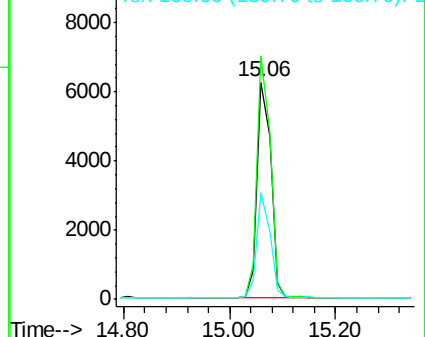
160 49.0 37.1 55.7



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.552 ng

RT: 16.53 min Scan# 1100

Delta R.T. 0.00 min

Lab File: BE094936.D

Acq: 6 Dec 2017 3:58

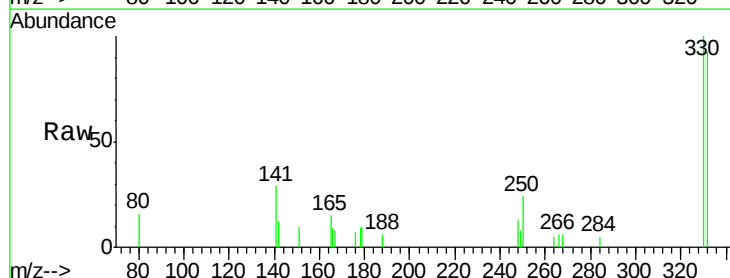
Tgt Ion:330 Resp: 1315

Ion Ratio Lower Upper

330 100

332 90.8 152.7 229.1#

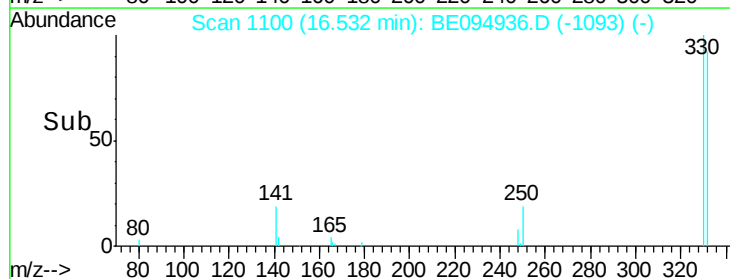
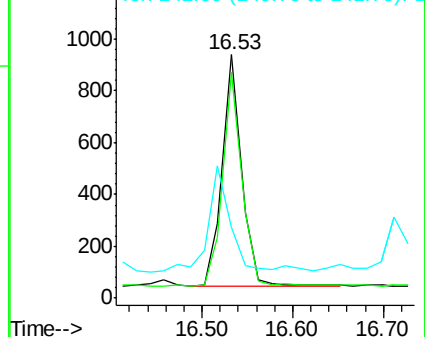
141 53.5 33.7 50.5#

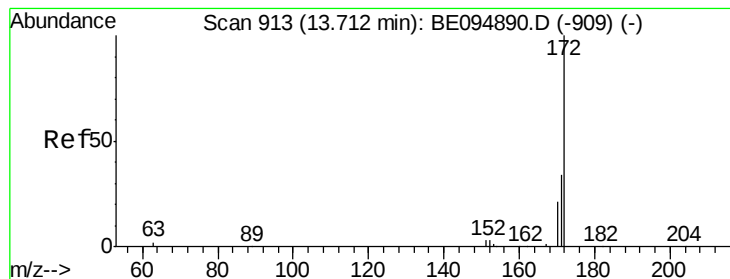


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.403 ng

RT: 13.71 min Scan# 913

Delta R.T. -0.00 min

Lab File: BE094936.D

Acq: 6 Dec 2017 3:58

Instrument :

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ClientSampleId :

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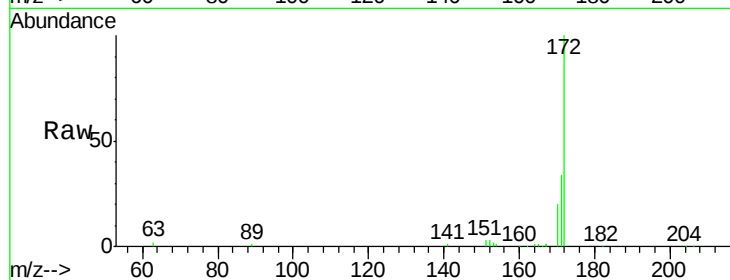
Tot Ion:172 Resp: 18644

Ion Ratio Lower Upper

172 100

171 33.6 29.9 44.9

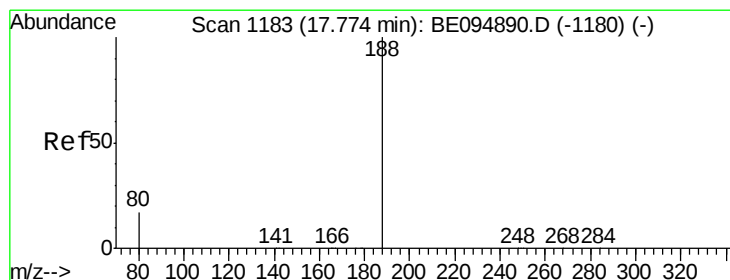
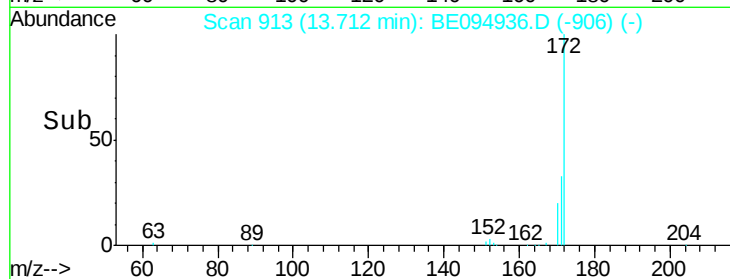
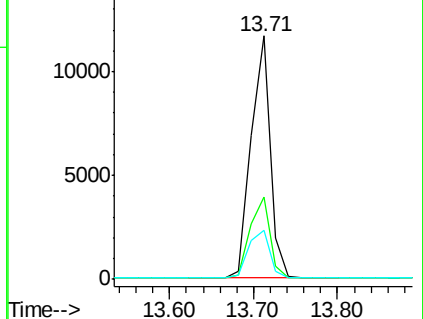
170 20.1 21.8 32.8#



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.77 min Scan# 1183

Delta R.T. -0.00 min

Lab File: BE094936.D

Acq: 6 Dec 2017 3:58

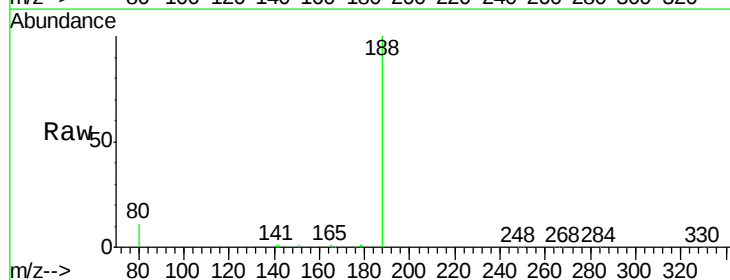
Tgt Ion:188 Resp: 26499

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

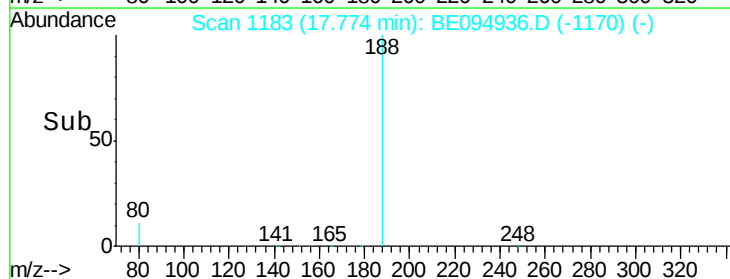
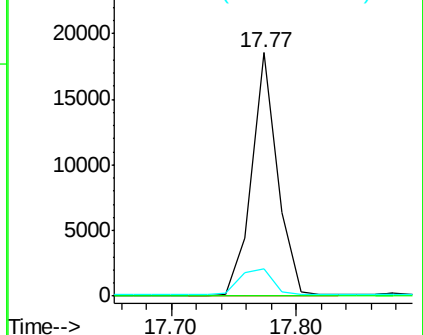
80 11.4 3.6 5.4#

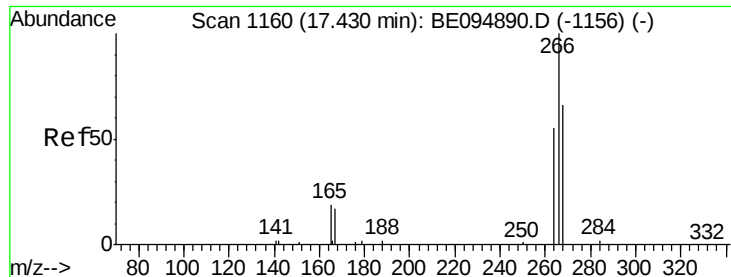


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

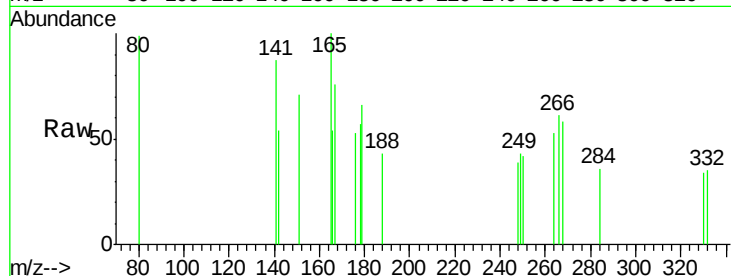




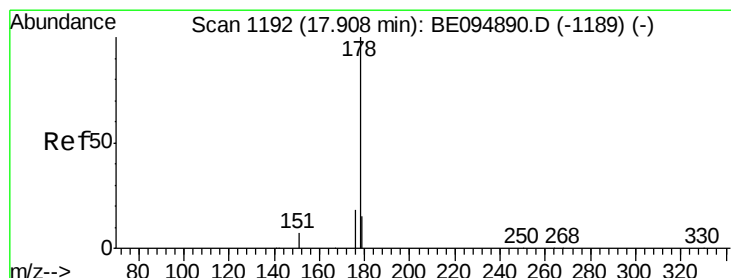
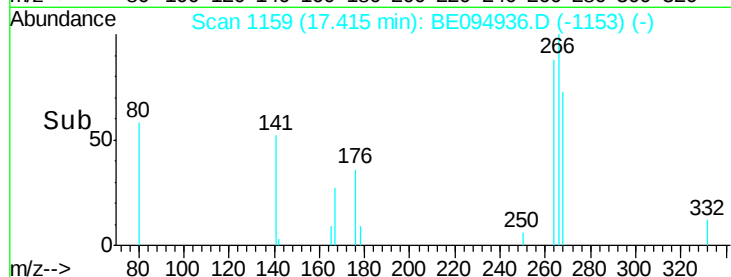
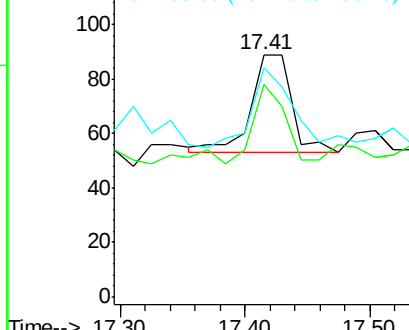
#22
Pentachlorophenol
Concen: 0.151 ng
RT: 17.41 min Scan# 1159
Delta R.T. -0.01 min
Lab File: BE094936.D
Acq: 6 Dec 2017 3:58

Instrument :
BNA_E
ClientSampleId :
FT-DUP03-20171130

Tot Ion:266 Resp: 83
Ion Ratio Lower Upper
266 100
264 87.6 72.5 108.7
268 94.4 73.8 110.6

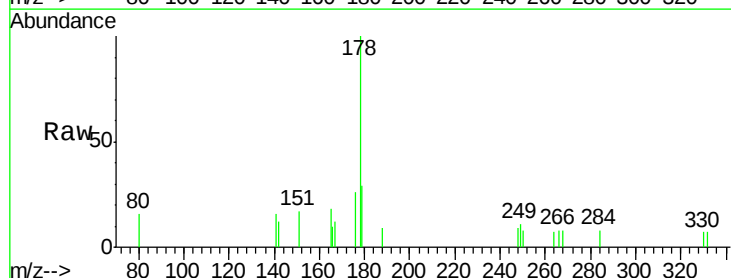


Abundance Ion 266.00 (265.70 to 266.70): E
Ion 264.00 (263.70 to 264.70): E
Ion 268.00 (267.70 to 268.70): E

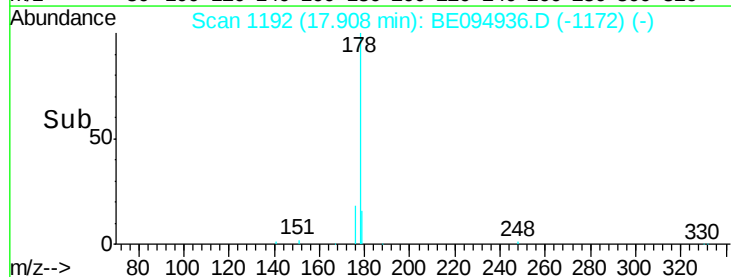
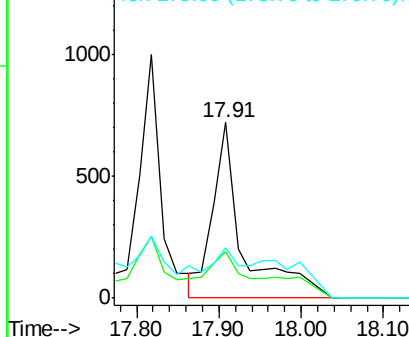


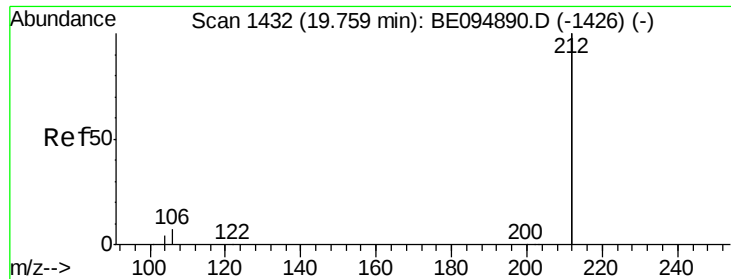
#24
Anthracene
Concen: 0.022 ng
RT: 17.91 min Scan# 1192
Delta R.T. -0.00 min
Lab File: BE094936.D
Acq: 6 Dec 2017 3:58

Tgt Ion:178 Resp: 1958
Ion Ratio Lower Upper
178 100
176 9.6 12.8 19.2#
179 9.1 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: 0.394 ng

RT: 19.75 min Scan# 1431

Delta R.T. -0.01 min

Lab File: BE094936.D

Acq: 6 Dec 2017 3:58

Instrument :

BNA_E

ClientSampleId :

FT-DUP03-20171130

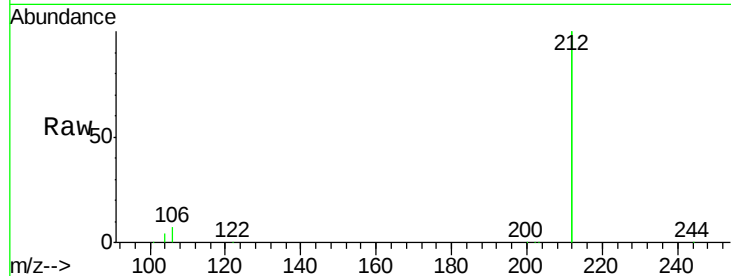
Tot Ion:212 Resp: 142694

Ion Ratio Lower Upper

212 100

106 3.4 2.8 4.2

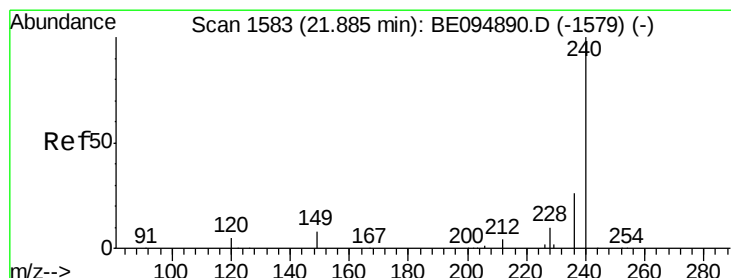
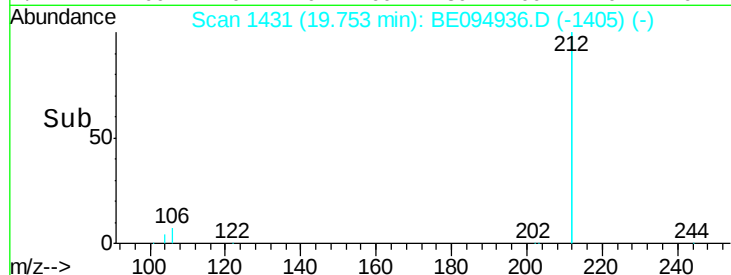
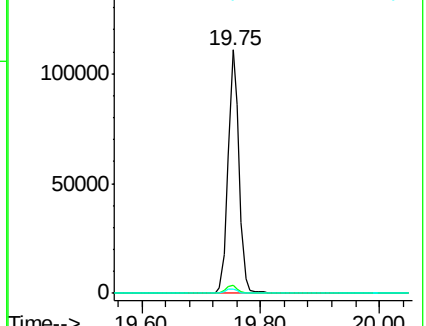
104 2.0 1.6 2.4



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



#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.87 min Scan# 1582

Delta R.T. -0.01 min

Lab File: BE094936.D

Acq: 6 Dec 2017 3:58

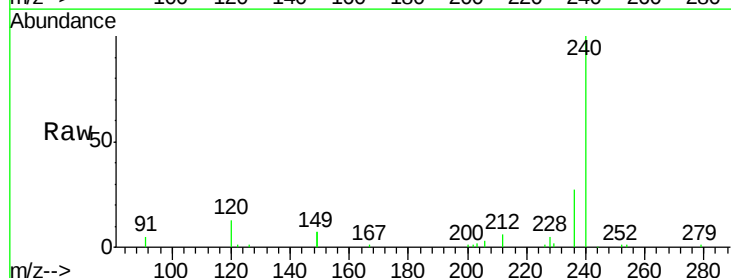
Tgt Ion:240 Resp: 28195

Ion Ratio Lower Upper

240 100

120 13.2 5.5 8.3#

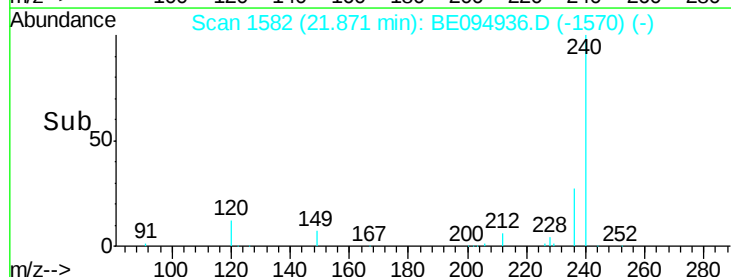
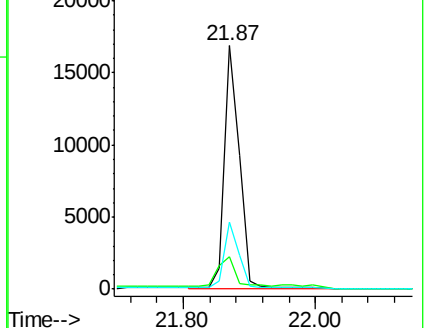
236 27.5 20.7 31.1

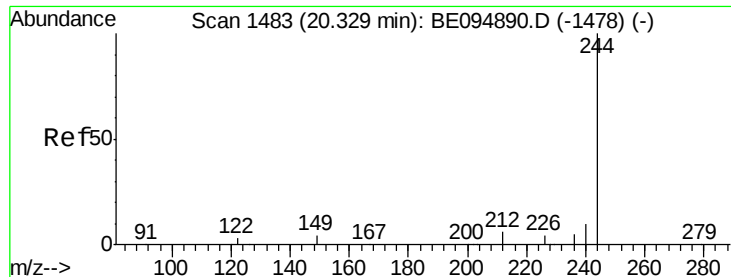


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#29

Terphenyl-d14

Concen: 0.551 ng

RT: 20.31 min Scan# 1482

Delta R.T. -0.01 min

Lab File: BE094936.D

Acq: 6 Dec 2017 3:58

Instrument :

BNA_E

ClientSampleId :

FT-DUP03-20171130

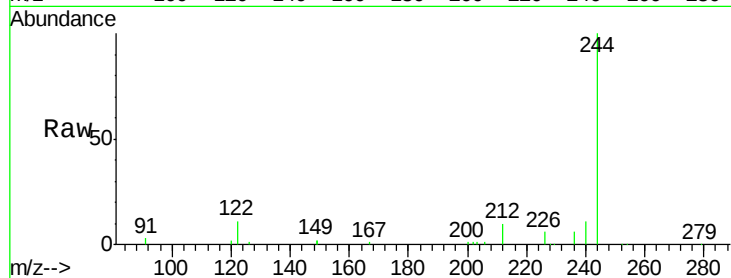
Tot Ion:244 Resp: 28676

Ion Ratio Lower Upper

244 100

212 10.4 25.4 38.0#

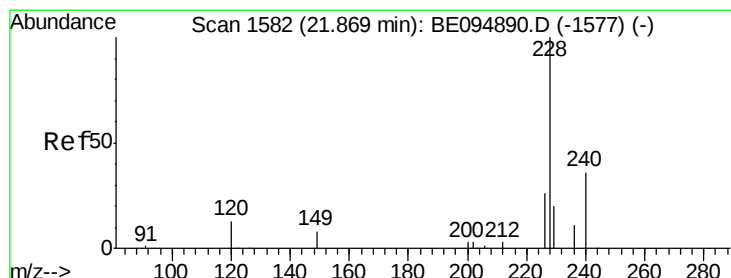
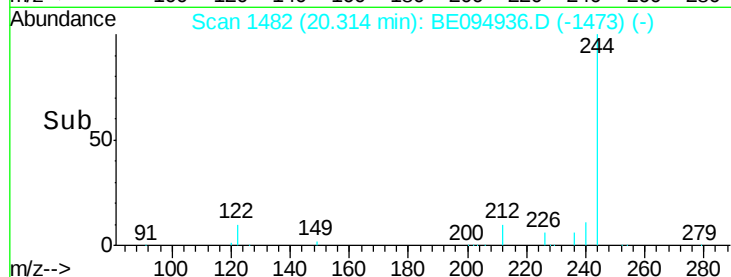
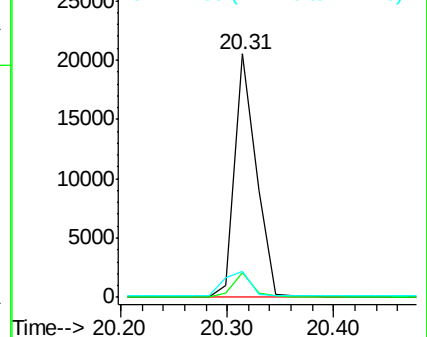
122 10.8 8.1 12.1



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.037 ng

RT: 21.86 min Scan# 1581

Delta R.T. -0.01 min

Lab File: BE094936.D

Acq: 6 Dec 2017 3:58

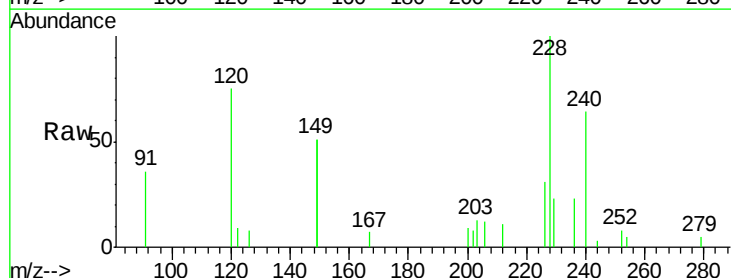
Tgt Ion:228 Resp: 3194

Ion Ratio Lower Upper

228 100

226 30.5 40.0 60.0#

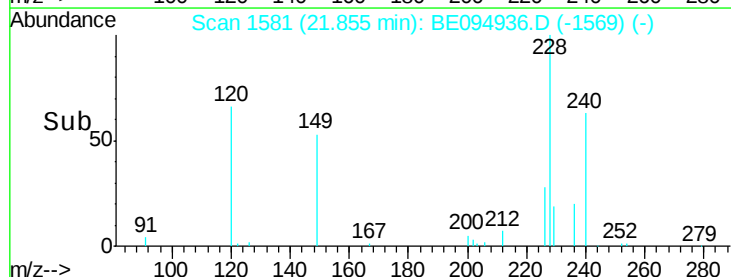
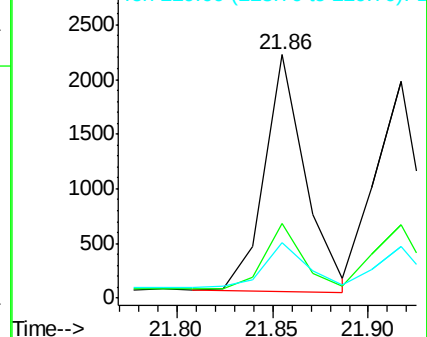
229 22.6 40.0 60.0#

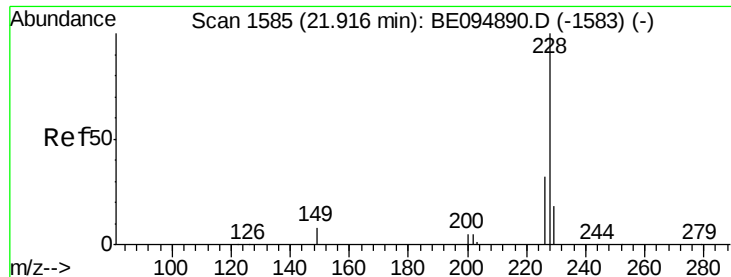


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.039 ng

RT: 21.92 min Scan# 1585

Delta R.T. 0.00 min

Lab File: BE094936.D

Acq: 6 Dec 2017 3:58

Instrument :

BNA_E

ClientSampleId :

FT-DUP03-20171130

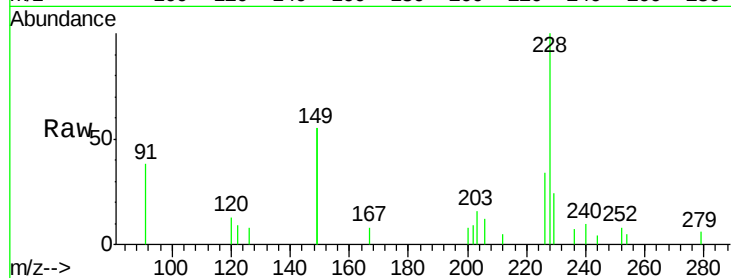
Tot Ion:228 Resp: 3687

Ion Ratio Lower Upper

228 100

226 33.8 40.0 60.0#

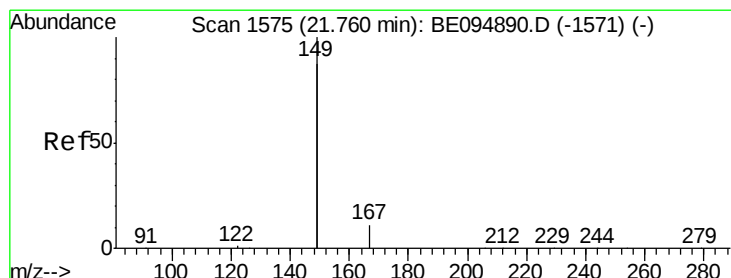
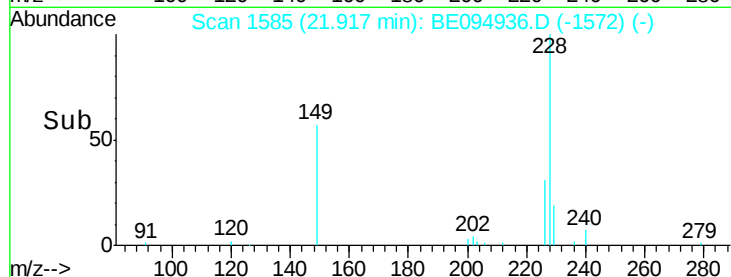
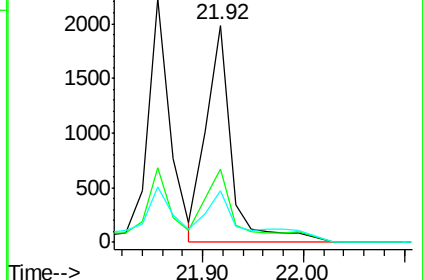
229 23.8 40.0 60.0#



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.163 ng

RT: 21.75 min Scan# 1574

Delta R.T. -0.01 min

Lab File: BE094936.D

Acq: 6 Dec 2017 3:58

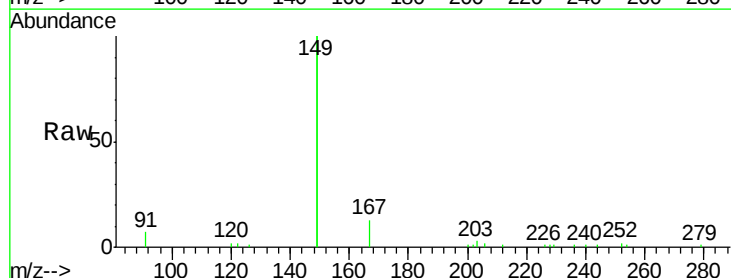
Tgt Ion:149 Resp: 23377

Ion Ratio Lower Upper

149 100

167 6.6 5.4 8.0

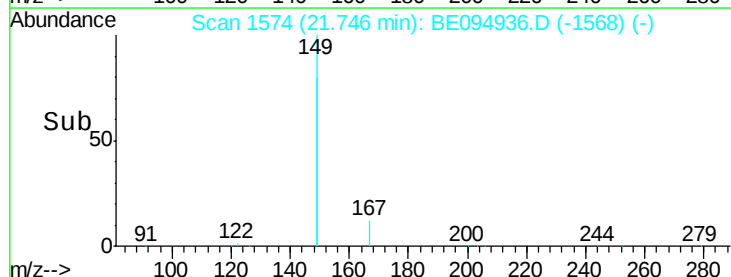
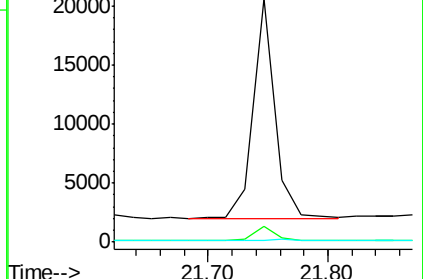
279 0.9 0.7 1.1

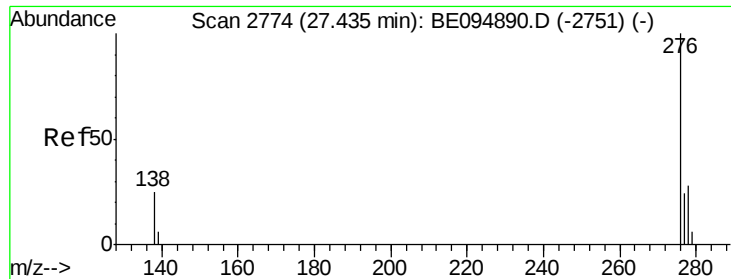


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

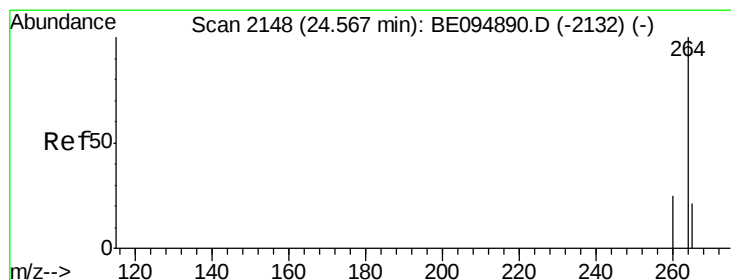
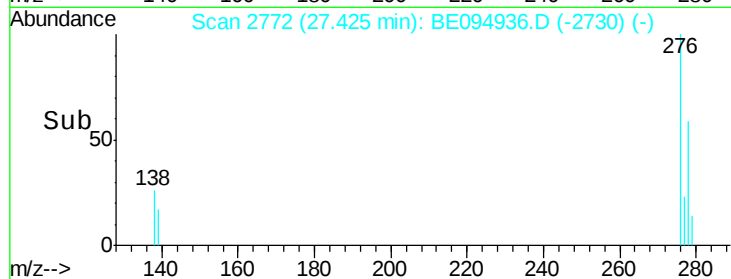
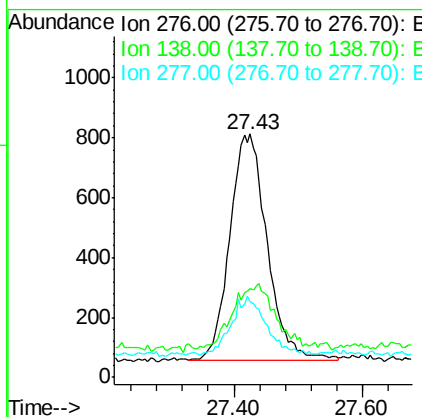
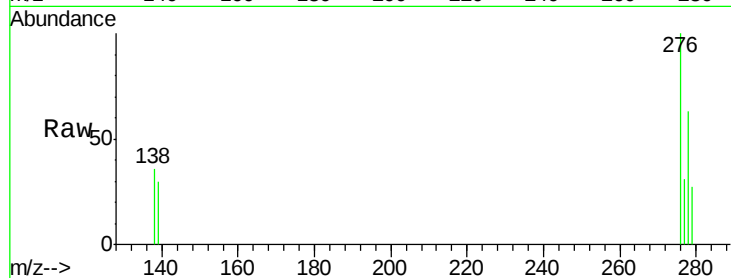




#33
Indeno(1,2,3-cd)pyrene
Concen: 0.039 ng
RT: 27.43 min Scan# 2772
Delta R.T. -0.01 min
Lab File: BE094936.D
Acq: 6 Dec 2017 3:58

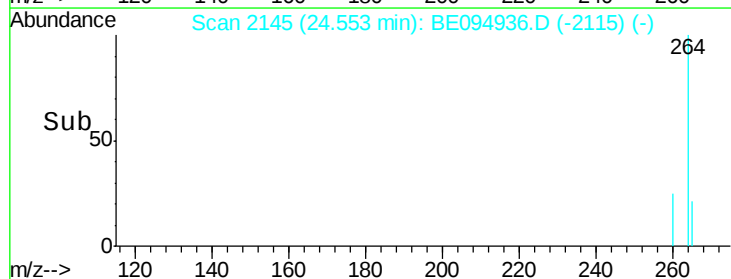
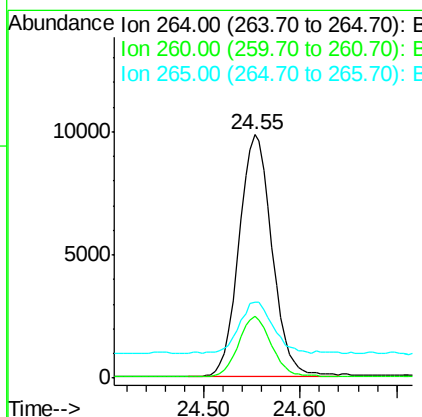
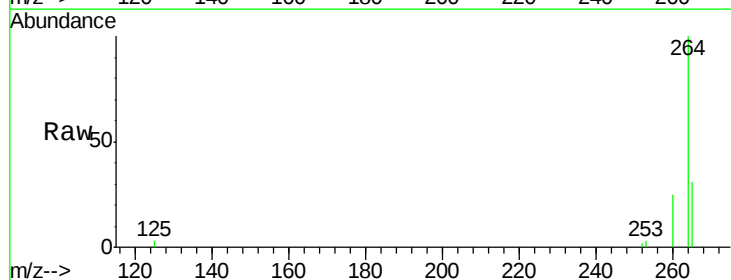
Instrument :
BNA_E
ClientSampleId :
FT-DUP03-20171130

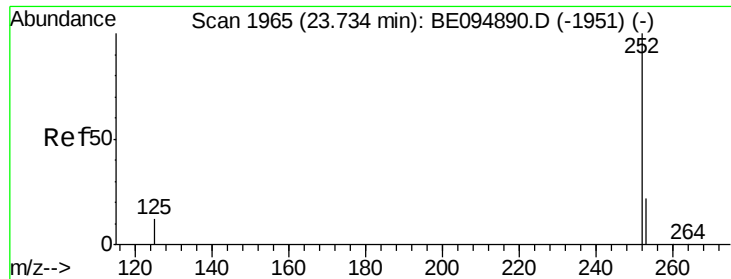
Tot Ion:276 Resp: 3038
Ion Ratio Lower Upper
276 100
138 32.7 22.5 33.7
277 24.2 19.9 29.9



#34
Perylene-d12
Concen: 0.400 ng
RT: 24.55 min Scan# 2145
Delta R.T. -0.01 min
Lab File: BE094936.D
Acq: 6 Dec 2017 3:58

Tgt Ion:264 Resp: 23331
Ion Ratio Lower Upper
264 100
260 25.4 20.5 30.7
265 31.2 22.8 34.2





#35

Benzo(b)fluoranthene

Concen: 0.038 ng

RT: 23.72 min Scan# 1963

Delta R.T. -0.01 min

Lab File: BE094936.D

Acq: 6 Dec 2017 3:58

Instrument :

BNA_E

ClientSampleId :

FT-DUP03-20171130

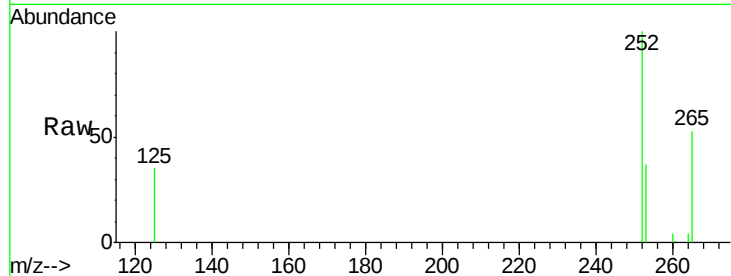
Tot Ion:252 Resp: 3259

Ion Ratio Lower Upper

252 100

253 37.3 48.0 72.0#

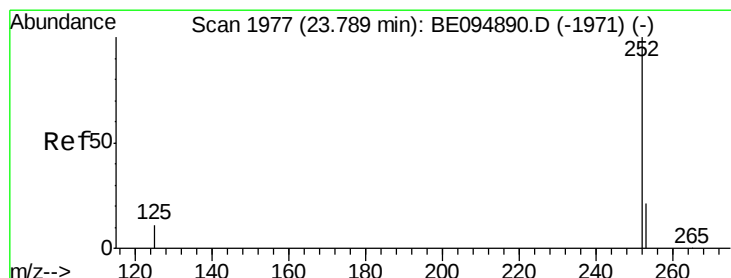
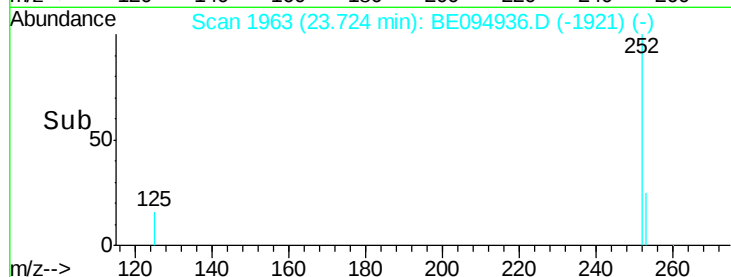
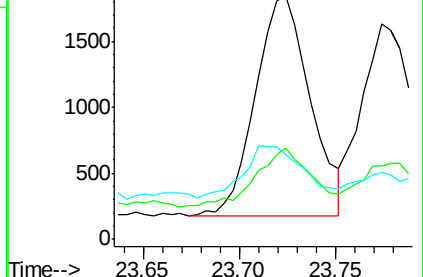
125 35.0 56.0 84.0#



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: 0.031 ng

RT: 23.77 min Scan# 1974

Delta R.T. -0.01 min

Lab File: BE094936.D

Acq: 6 Dec 2017 3:58

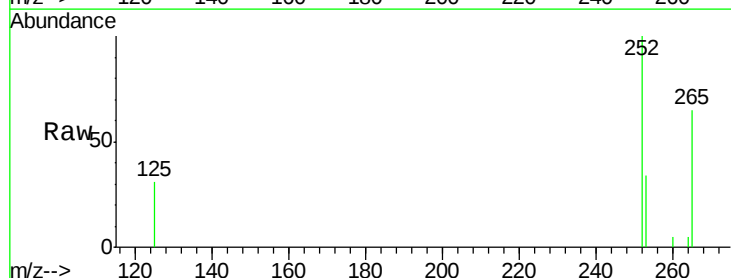
Tgt Ion:252 Resp: 2735

Ion Ratio Lower Upper

252 100

253 33.9 48.0 72.0#

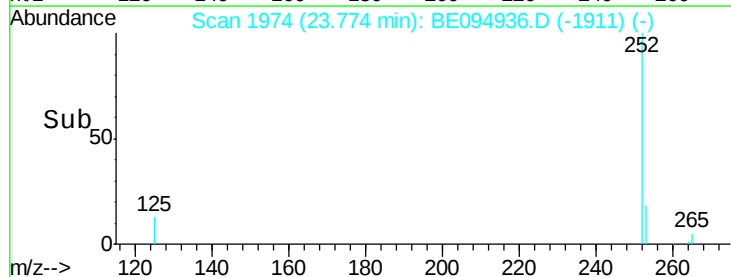
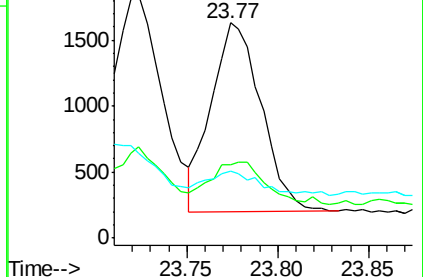
125 31.2 56.0 84.0#

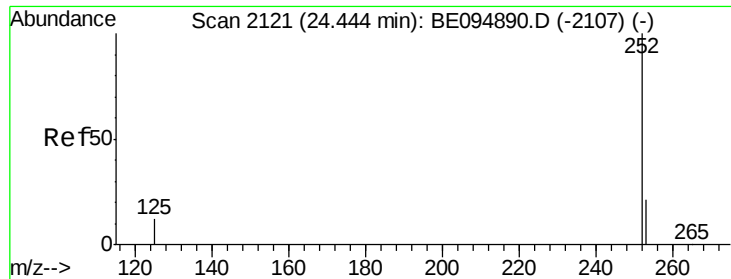


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.037 ng

RT: 24.43 min Scan# 2119

Delta R.T. -0.01 min

Lab File: BE094936.D

Acq: 6 Dec 2017 3:58

Instrument :

BNA_E

ClientSampleId :

FT-DUP03-20171130

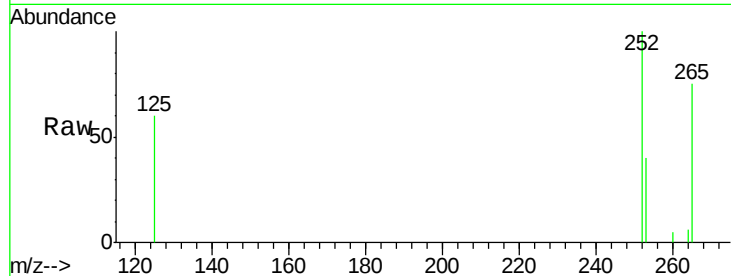
Tot Ion:252 Resp: 2757

Ion Ratio Lower Upper

252 100

253 40.4 52.0 78.0#

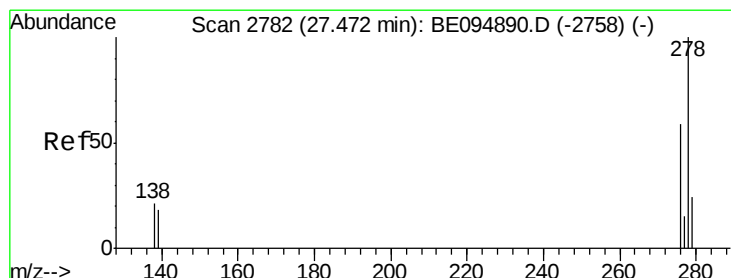
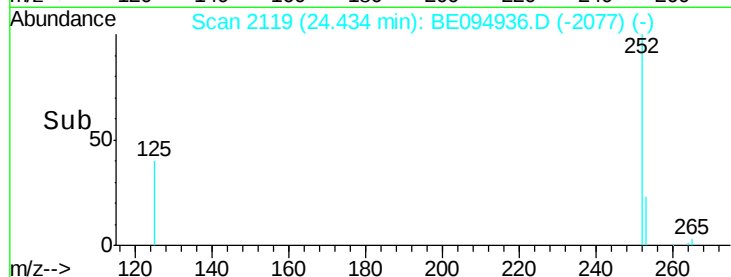
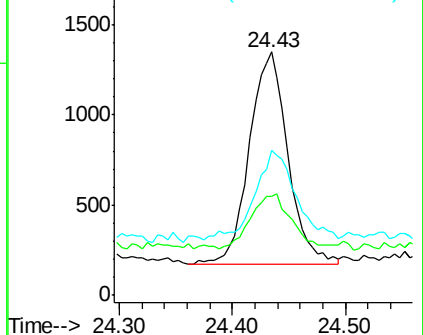
125 59.7 68.0 102.0#



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: 0.037 ng

RT: 27.44 min Scan# 2776

Delta R.T. -0.03 min

Lab File: BE094936.D

Acq: 6 Dec 2017 3:58

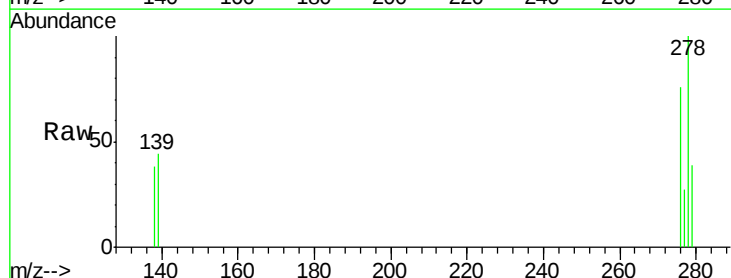
Tgt Ion:278 Resp: 2527

Ion Ratio Lower Upper

278 100

139 43.9 56.0 84.0#

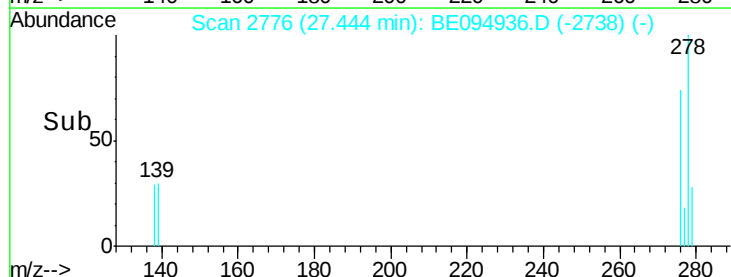
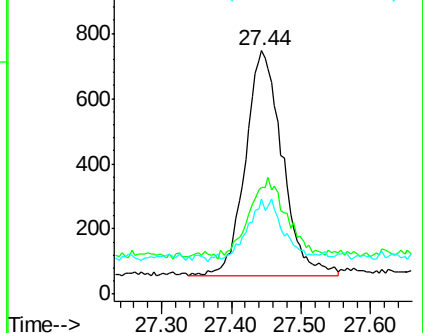
279 39.2 52.0 78.0#

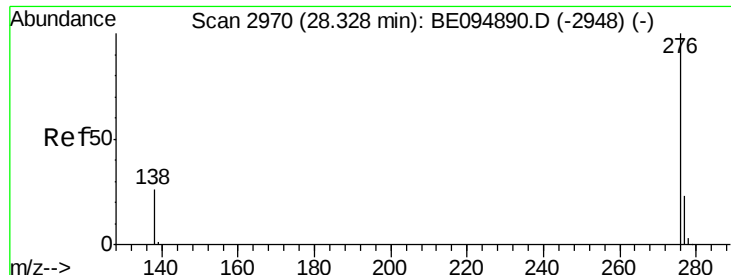


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.041 ng

RT: 28.30 min Scan# 2965

Delta R.T. -0.02 min

Lab File: BE094936.D

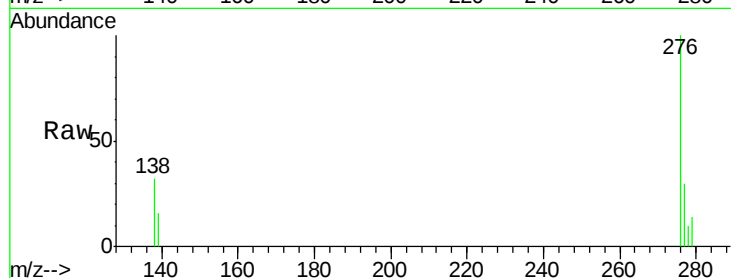
Acq: 6 Dec 2017 3:58

Instrument :

BNA_E

ClientSampleId :

FT-DUP03-20171130



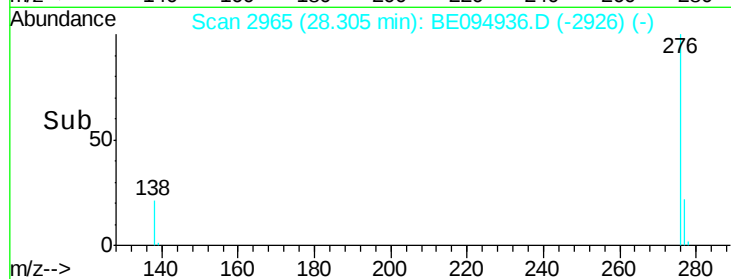
Tot Ion: 276 Resp: 2810

Ion Ratio Lower Upper

276 100

277 30.0 52.0 78.0#

138 31.6 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

