

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE121418\
 Data File : BE098438.D
 Acq On : 14 Dec 2018 16:32
 Operator : SJ/JU
 Sample : PB115633BS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB115633BS

Quant Time: Dec 14 23:31:55 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE121018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 10 14:59:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.86	152	918	0.40	ng	0.00
7) Naphthalene-d8	10.65	136	3837	0.40	ng	-0.01
13) Acenaphthene-d10	14.53	164	2268	0.40	ng	0.00
19) Phenanthrene-d10	17.27	188	5902	0.40	ng	-0.01
27) Chrysene-d12	21.46	240	7954	0.40	ng	0.00
34) Perylene-d12	24.00	264	7451	0.40	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.46	112	607	0.28	ng	0.01
5) Phenol-d6	7.06	99	761	0.25	ng	0.01
8) Nitrobenzene-d5	9.04	82	745	0.21	ng	0.03
11) 2-Methylnaphthalene-d10	12.27	152	1478	0.24	ng	0.00
14) 2,4,6-Tribromophenol	16.02	330	164	0.20	ng	0.00
15) 2-Fluorobiphenyl	13.15	172	2191	0.23	ng	0.00
25) Fluoranthene-d10	19.30	212	19184	0.25	ng	0.00
29) Terphenyl-d14	19.90	244	3509	0.18	ng	0.00

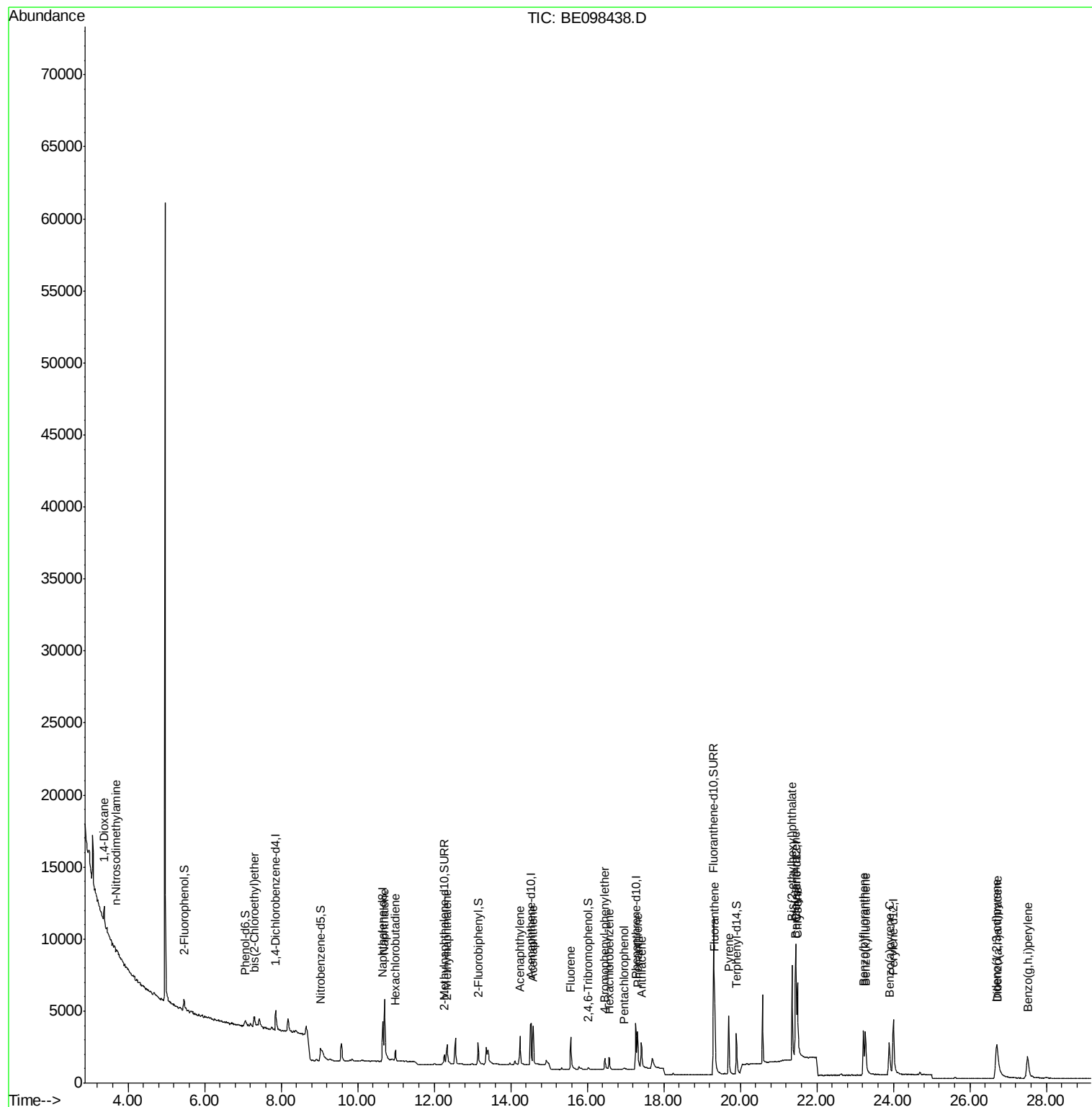
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.37	88	594	0.374	ng	# 55
3) n-Nitrosodimethylamine	3.69	42	317	0.222	ng	# 100
6) bis(2-Chloroethyl)ether	7.29	93	522	0.181	ng	89
9) Naphthalene	10.71	128	8896	0.230	ng	# 97
10) Hexachlorobutadiene	10.99	225	540	0.220	ng	95
12) 2-Methylnaphthalene	12.34	142	1354	0.216	ng	97
16) Acenaphthylene	14.24	152	2502	0.235	ng	99
17) Acenaphthene	14.59	154	1365	0.214	ng	94
18) Fluorene	15.57	166	1856	0.217	ng	97
20) 4-Bromophenyl-phenylether	16.46	248	580	0.183	ng	90
21) Hexachlorobenzene	16.58	284	759	0.222	ng	98
22) Pentachlorophenol	16.95	266	69	0.146	ng	# 77
23) Phenanthrene	17.32	178	3247	0.226	ng	99
24) Anthracene	17.41	178	2584	0.202	ng	99
26) Fluoranthene	19.34	202	4797	0.253	ng	98
28) Pyrene	19.70	202	4832	0.194	ng	100
30) Benzo(a)anthracene	21.44	228	5077	0.224	ng	99
31) Chrysene	21.50	228	5304	0.224	ng	100
32) Bis(2-ethylhexyl)phthalate	21.35	149	7795	0.169	ng	100
33) Indeno(1,2,3-cd)pyrene	26.69	276	5258	0.223	ng	# 86
35) Benzo(b)fluoranthene	23.22	252	4761	0.234	ng	96
36) Benzo(k)fluoranthene	23.27	252	5401	0.228	ng	97
37) Benzo(a)pyrene	23.89	252	4897	0.233	ng	# 95
38) Dibenzo(a,h)anthracene	26.72	278	4197	0.212	ng	# 93
39) Benzo(g,h,i)perylene	27.50	276	4385	0.220	ng	97

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

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.86 min Scan# 434

Delta R.T. -0.00 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

Instrument :

BNA_E

ClientSampleId :

PB115633BS

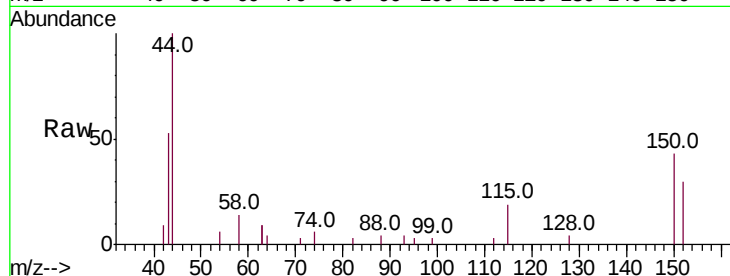
Tot Ion:152 Resp: 918

Ion Ratio Lower Upper

152 100

150 144.3 124.2 186.4

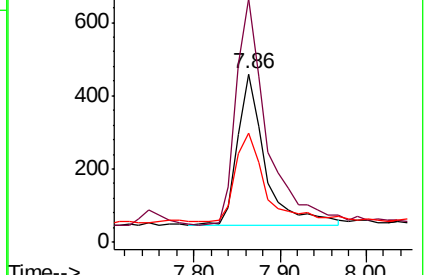
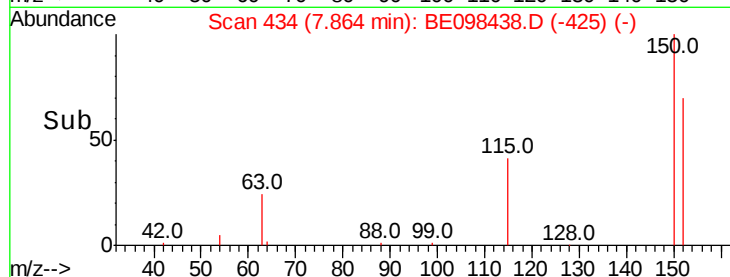
115 64.6 53.9 80.9



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: 0.374 ng

RT: 3.37 min Scan# 44

Delta R.T. -0.00 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

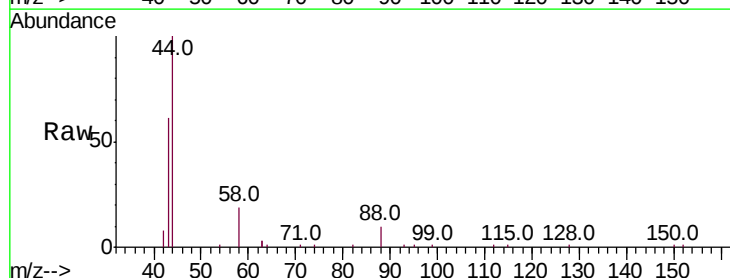
Tgt Ion: 88 Resp: 594

Ion Ratio Lower Upper

88 100

58 114.0 75.0 112.6#

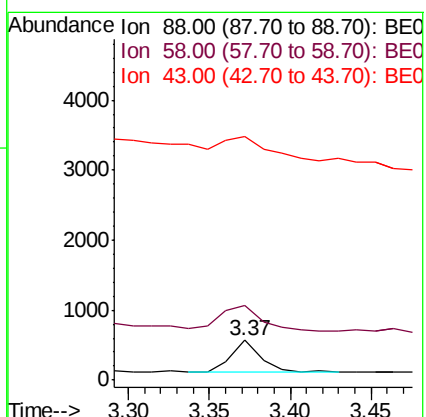
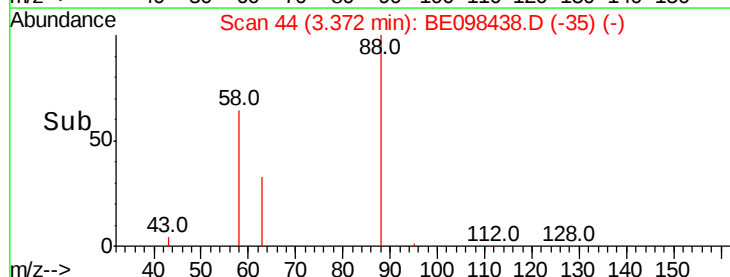
43 109.4 38.3 57.5#



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





#3

n-Nitrosodimethylamine

Concen: 0.222 ng

RT: 3.69 min Scan# 72

Delta R.T. -0.00 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

Instrument :

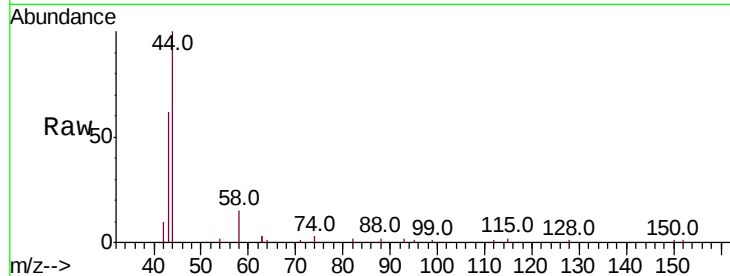
BNA_E

ClientSampleId :

PB115633BS

Tot Ion: 42 Resp: 317

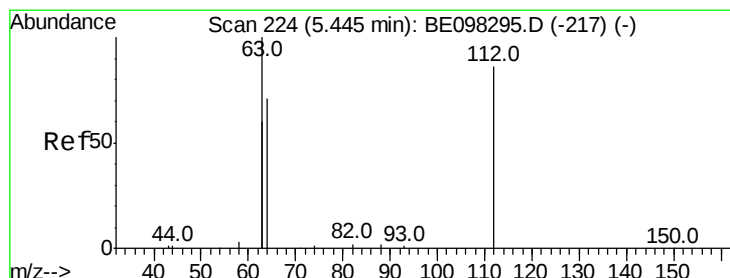
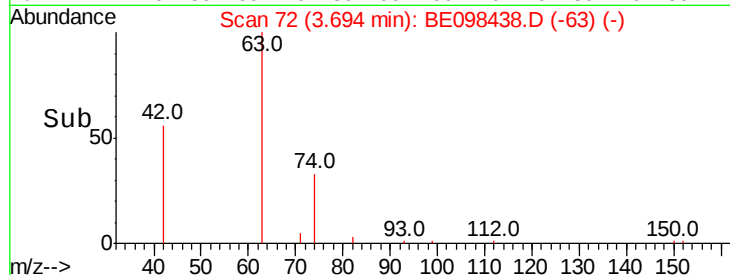
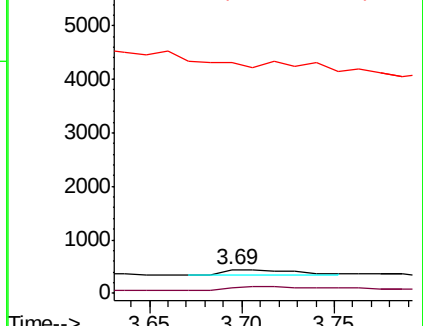
Ion	Ratio	Lower	Upper
42	100		
74	77.3	0.0	0.0#
44	0.0	0.0	0.0



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 0.283 ng

RT: 5.46 min Scan# 225

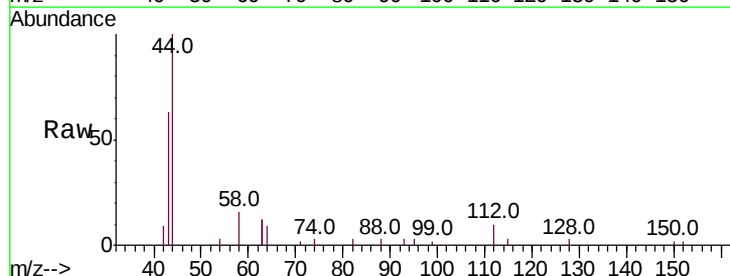
Delta R.T. 0.01 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

Tgt Ion: 112 Resp: 607

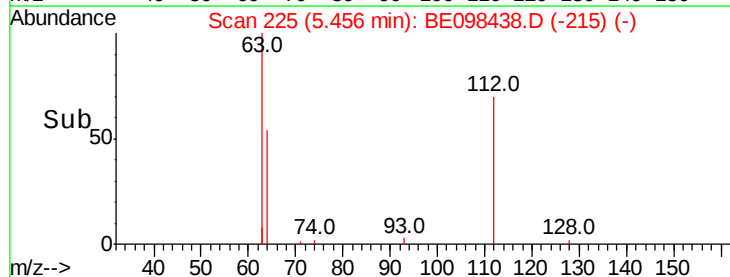
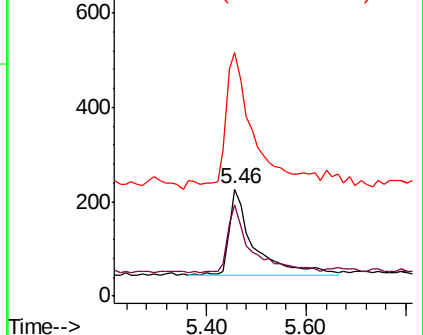
Ion	Ratio	Lower	Upper
112	100		
64	77.9	59.8	89.8
63	157.8	133.7	200.5



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: 0.250 ng

RT: 7.06 min Scan# 364

Delta R.T. 0.01 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

Instrument :

BNA_E

ClientSampleId :

PB115633BS

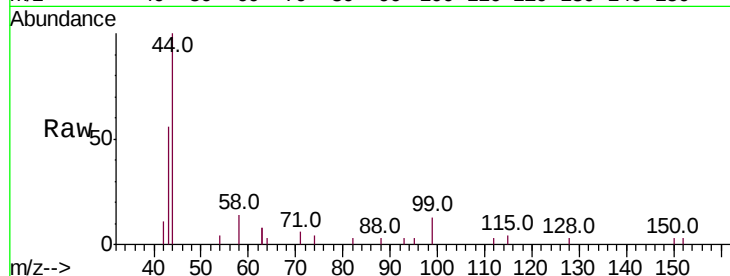
Tot Ion: 99 Resp: 761

Ion Ratio Lower Upper

99 100

42 25.0 26.3 39.5#

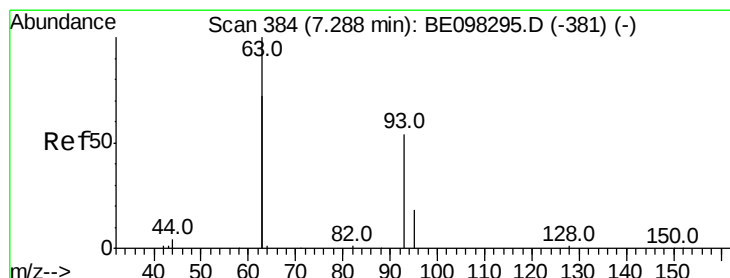
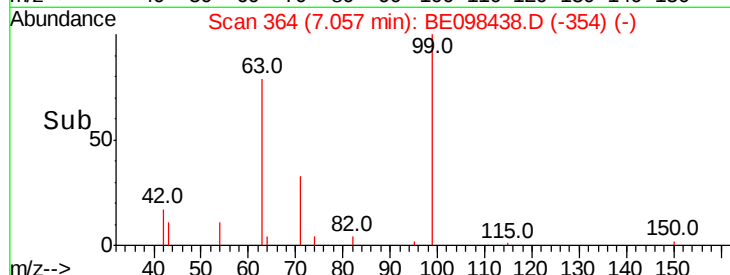
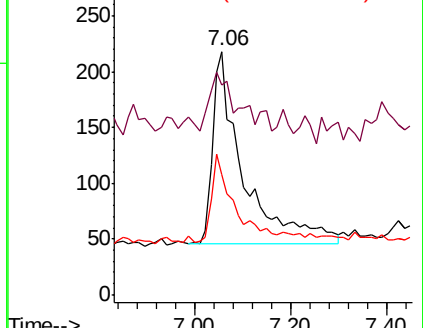
71 34.6 33.6 50.4



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: 0.181 ng

RT: 7.29 min Scan# 384

Delta R.T. -0.00 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

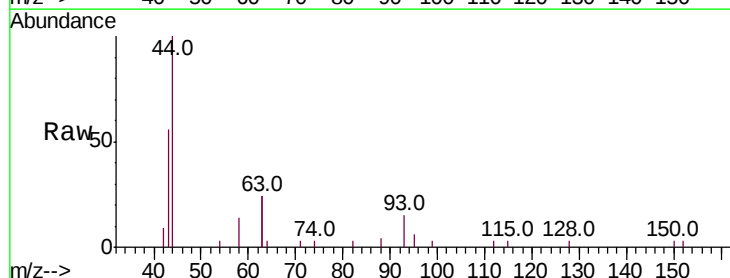
Tgt Ion: 93 Resp: 522

Ion Ratio Lower Upper

93 100

63 306.1 264.4 396.6

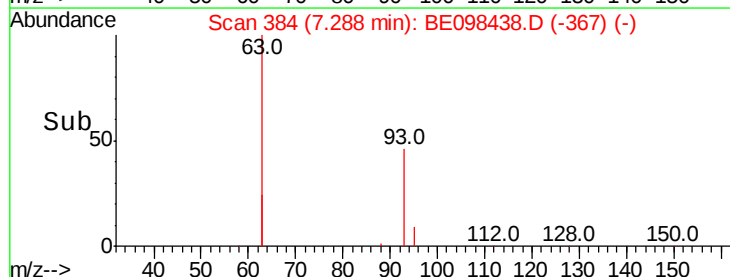
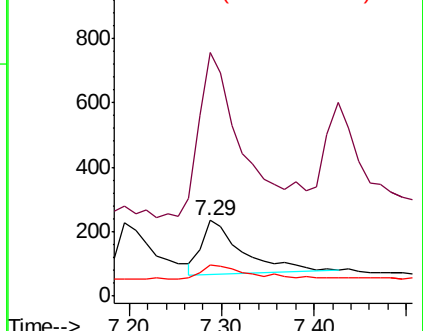
95 34.3 26.6 40.0

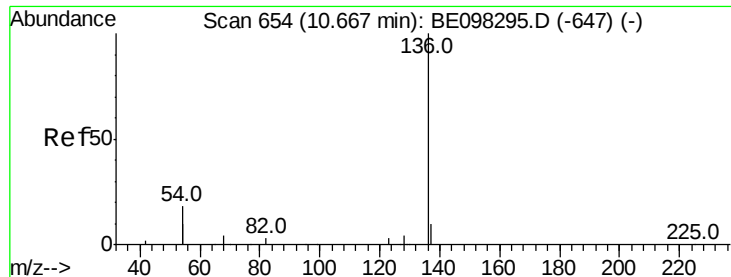


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: 10.65 min Scan# 653

Delta R.T. -0.01 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

Instrument :

BNA_E

ClientSampleId :

PB115633BS

Tot Ion:136 Resp: 3837

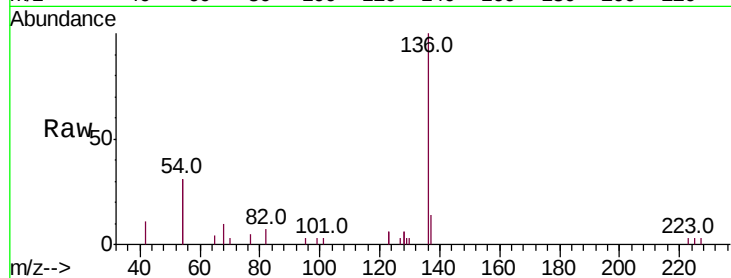
Ion Ratio Lower Upper

136 100

137 13.7 9.2 13.8

54 62.3 28.4 42.6#

68 9.8 5.4 8.0#

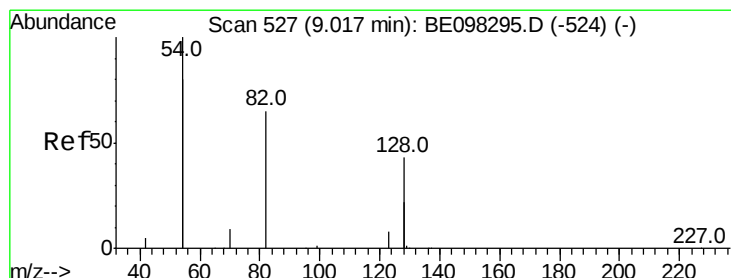
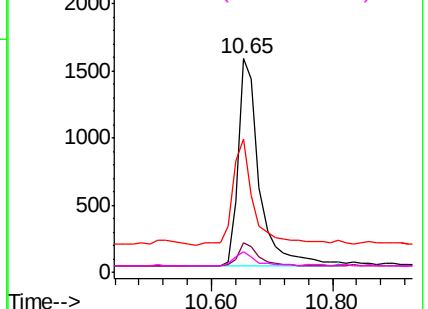
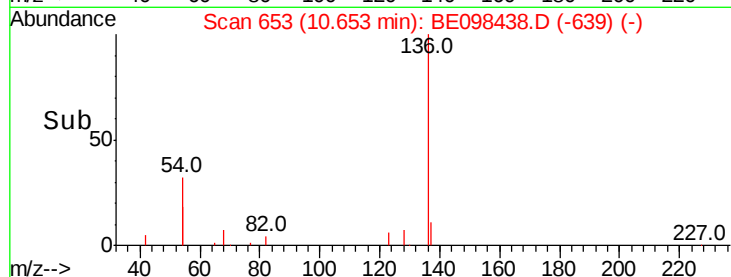


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.213 ng

RT: 9.04 min Scan# 529

Delta R.T. 0.03 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

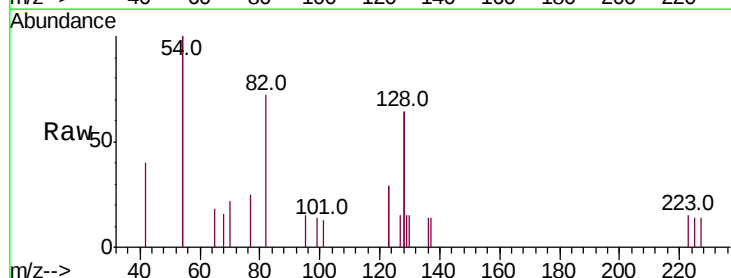
Tgt Ion: 82 Resp: 745

Ion Ratio Lower Upper

82 100

128 177.3 102.4 153.6#

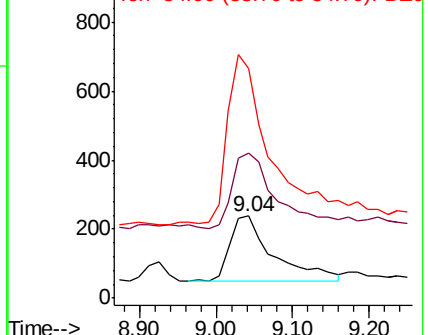
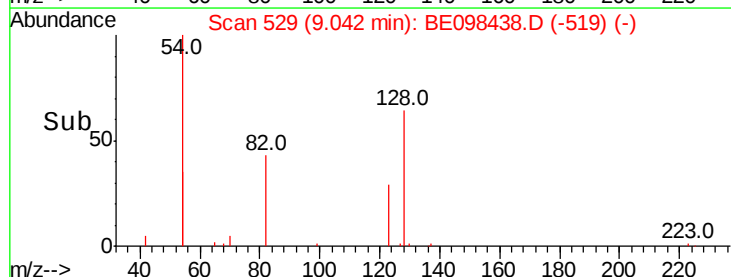
54 279.0 221.8 332.8

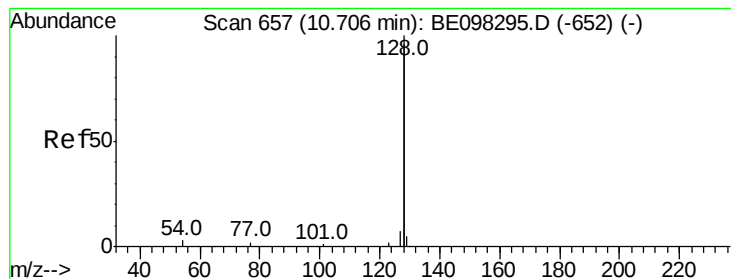


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.230 ng

RT: 10.71 min Scan# 657

Delta R.T. -0.00 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

Instrument :

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ClientSampleId :

PB115633BS

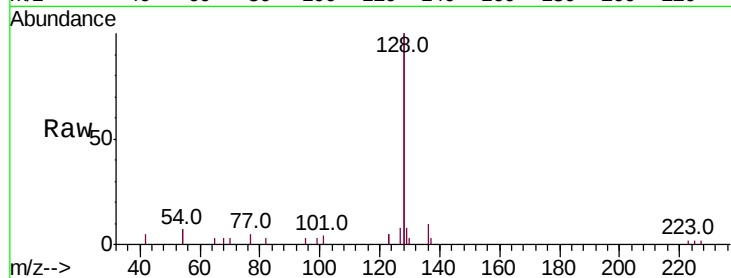
Tot Ion:128 Resp: 8896

Ion Ratio Lower Upper

128 100

129 4.1 2.5 3.7#

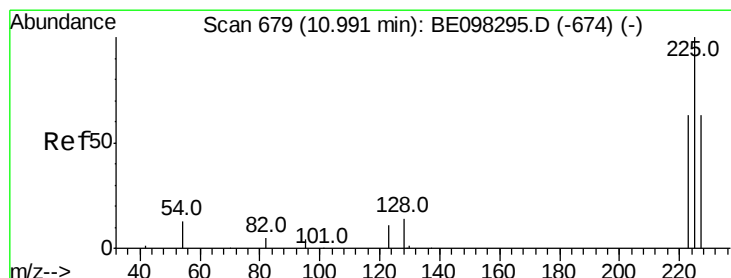
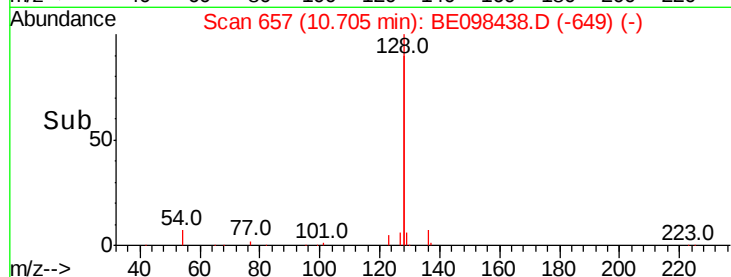
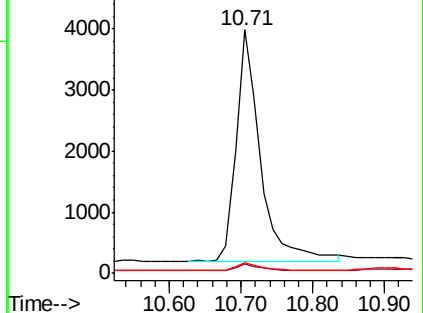
127 4.2 2.7 4.1#



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: 0.220 ng

RT: 10.99 min Scan# 679

Delta R.T. -0.00 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

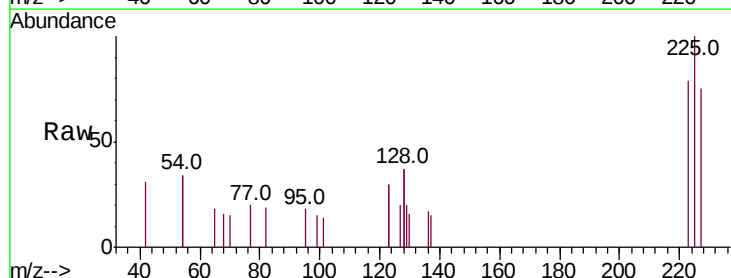
Tgt Ion:225 Resp: 540

Ion Ratio Lower Upper

225 100

223 67.8 49.4 74.0

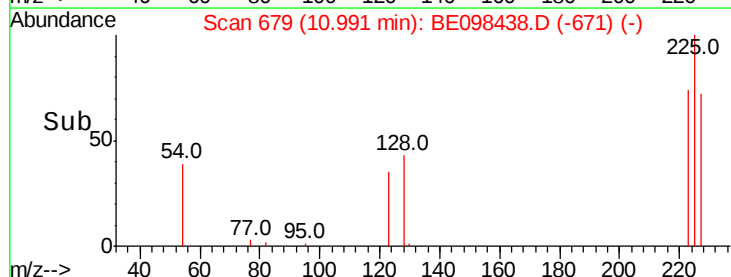
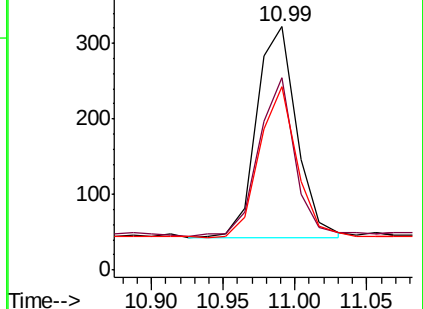
227 67.0 52.0 78.0

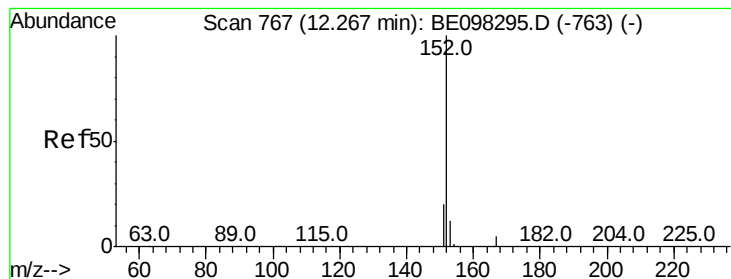


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.237 ng

RT: 12.27 min Scan# 767

Delta R.T. -0.00 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

Instrument :

BNA_E

ClientSampleId :

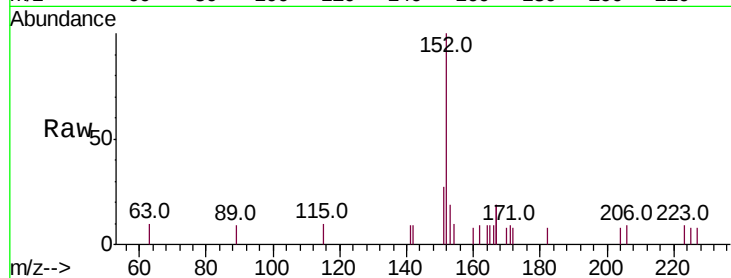
PB115633BS

Tot Ion:152 Resp: 1478

Ion Ratio Lower Upper

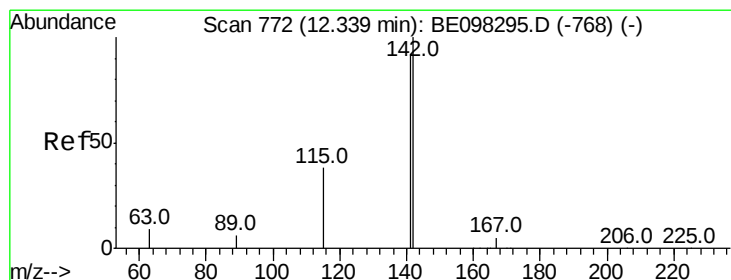
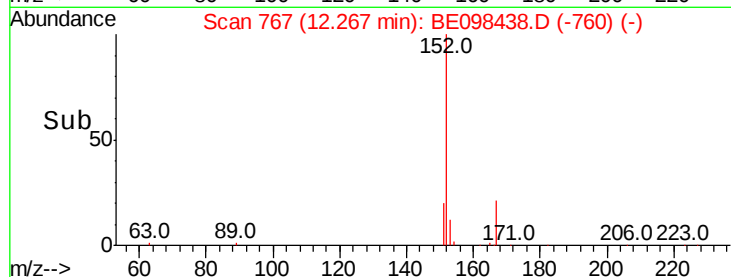
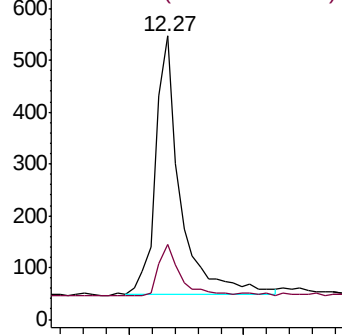
152 100

151 16.6 16.2 24.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.216 ng

RT: 12.34 min Scan# 772

Delta R.T. -0.00 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

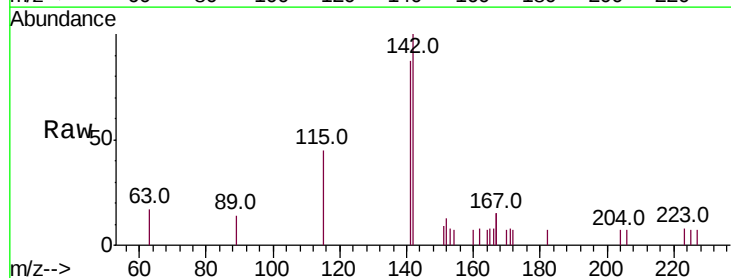
Tgt Ion:142 Resp: 1354

Ion Ratio Lower Upper

142 100

141 87.2 71.0 106.6

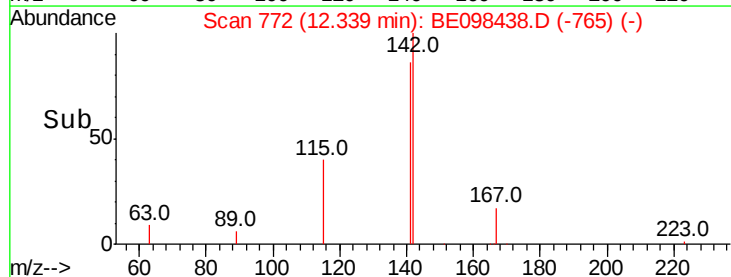
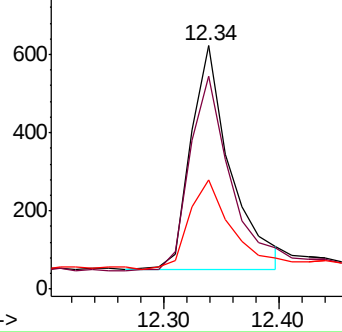
115 44.6 32.2 48.2

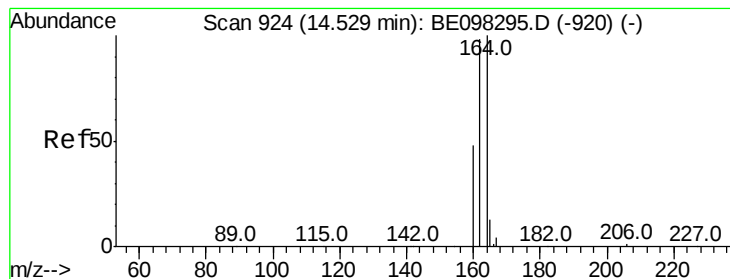


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.53 min Scan# 924

Delta R.T. -0.00 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

Instrument :

BNA_E

ClientSampleId :

PB115633BS

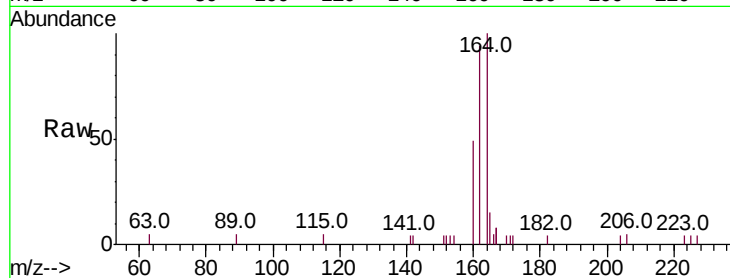
Tot Ion:164 Resp: 2268

Ion Ratio Lower Upper

164 100

162 93.8 77.6 116.4

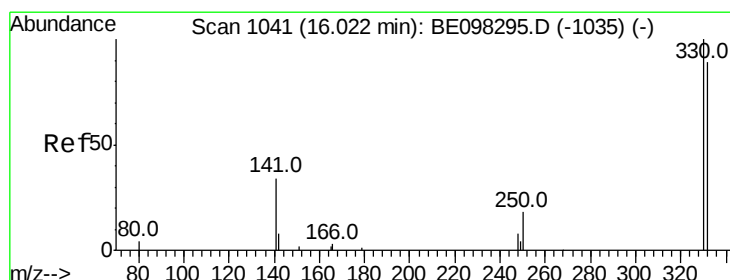
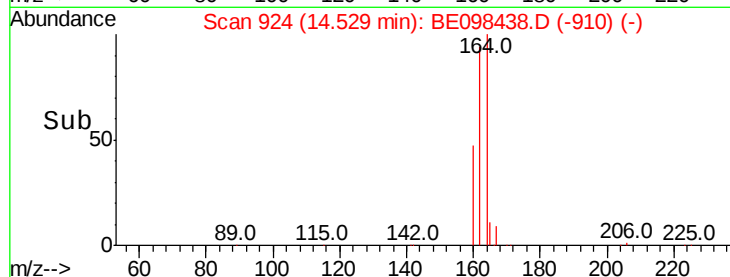
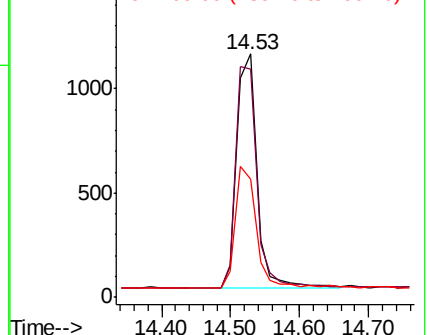
160 48.6 36.0 54.0



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: 0.197 ng

RT: 16.02 min Scan# 1041

Delta R.T. 0.00 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

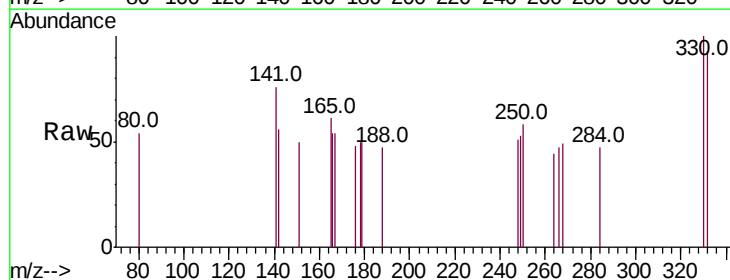
Tgt Ion:330 Resp: 164

Ion Ratio Lower Upper

330 100

332 91.5 76.2 114.4

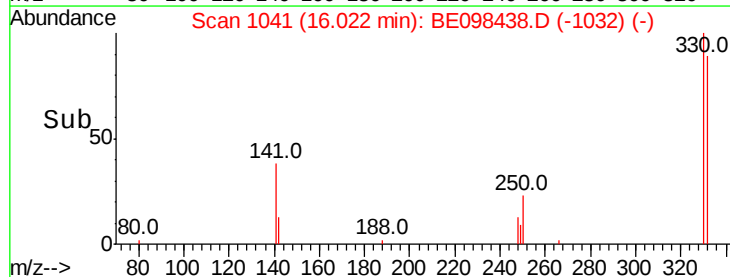
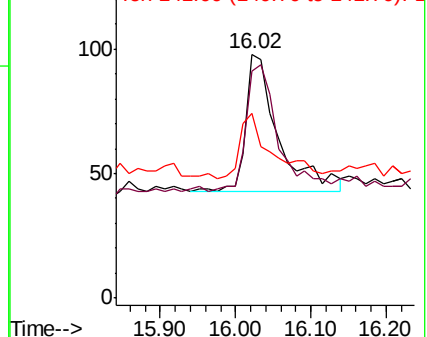
141 47.0 39.0 58.4

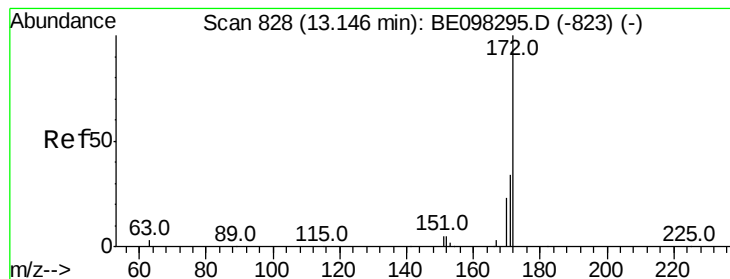


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.229 ng

RT: 13.15 min Scan# 828

Delta R.T. -0.00 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

Instrument :

BNA_E

ClientSampleId :

PB115633BS

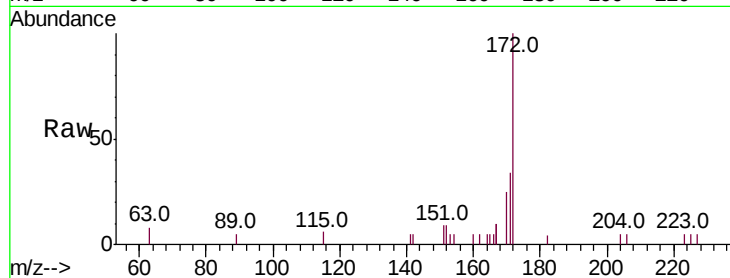
Tot Ion:172 Resp: 2191

Ion Ratio Lower Upper

172 100

171 34.2 27.5 41.3

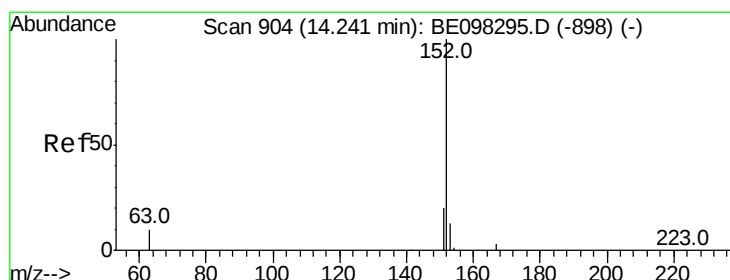
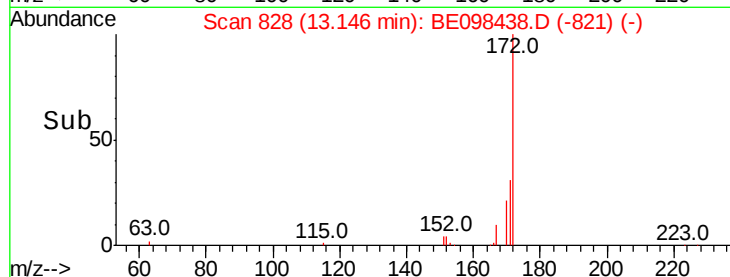
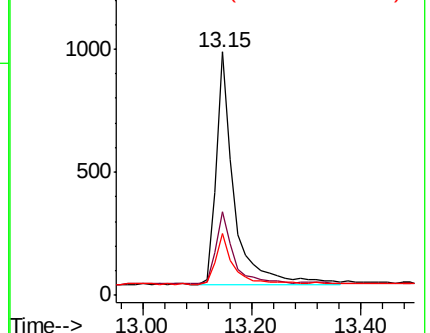
170 25.2 19.6 29.4



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: 0.235 ng

RT: 14.24 min Scan# 904

Delta R.T. -0.00 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

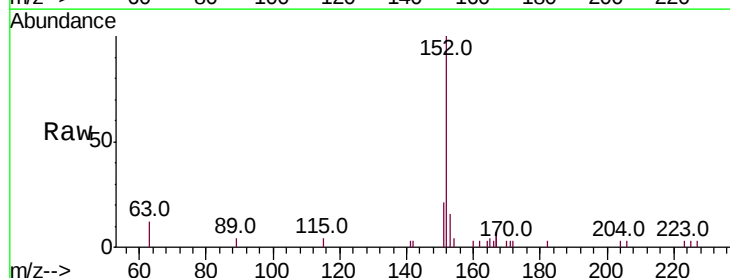
Tgt Ion:152 Resp: 2502

Ion Ratio Lower Upper

152 100

151 18.6 15.5 23.3

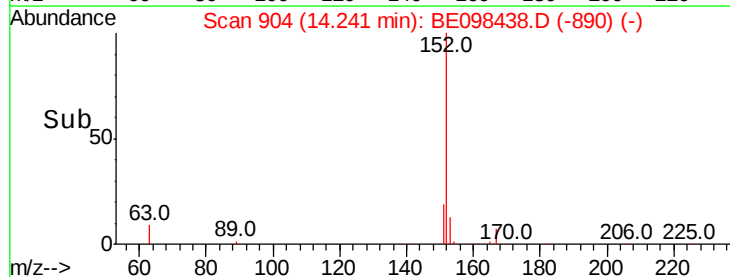
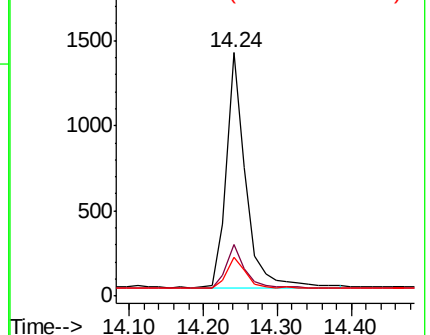
153 13.5 10.6 16.0



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

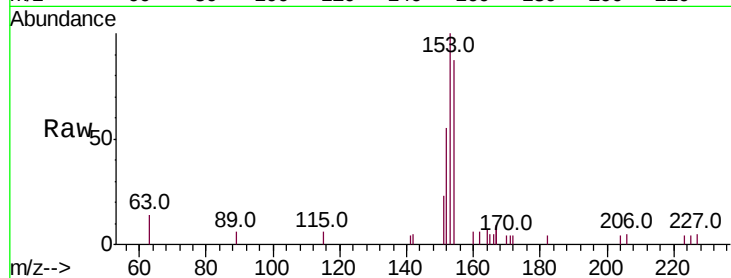




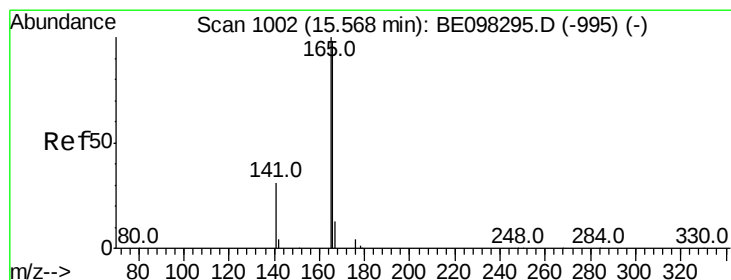
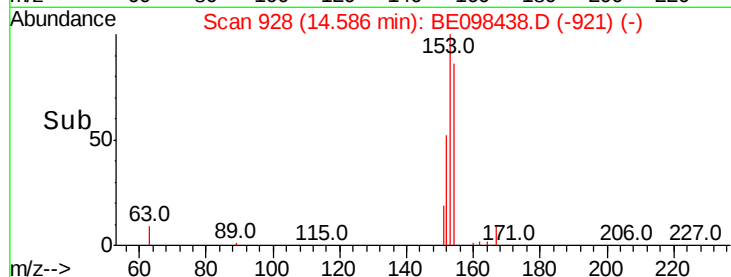
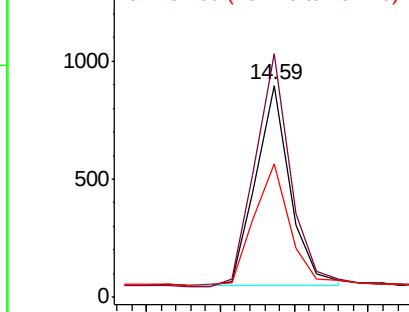
#17
Acenaphthene
Concen: 0.214 ng
RT: 14.59 min Scan# 928
Delta R.T. -0.00 min
Lab File: BE098438.D
Acq: 14 Dec 2018 16:32

Instrument :
BNA_E
ClientSampleId :
PB115633BS

Tot Ion:154 Resp: 1365
Ion Ratio Lower Upper
154 100
153 119.4 91.8 137.6
152 63.6 45.5 68.3

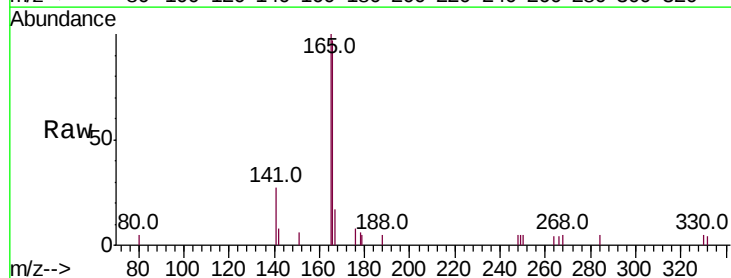


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

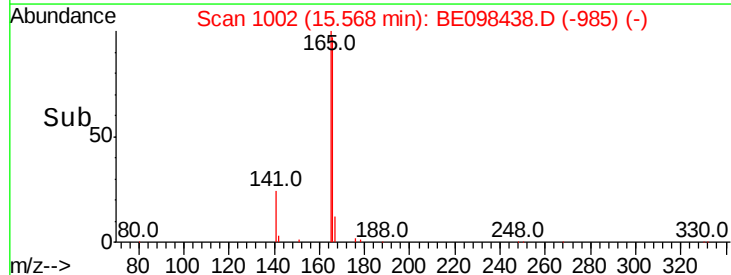
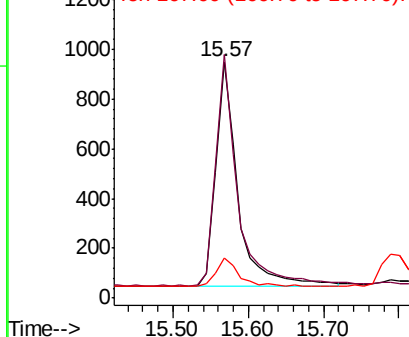


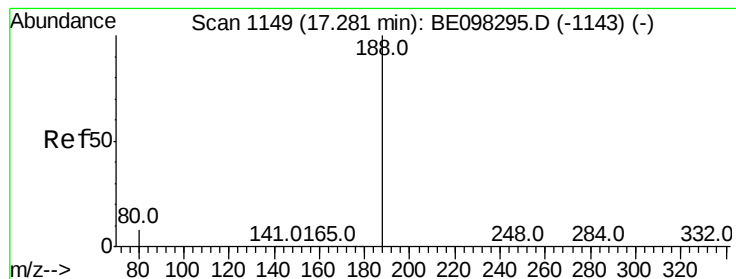
#18
Fluorene
Concen: 0.217 ng
RT: 15.57 min Scan# 1002
Delta R.T. -0.00 min
Lab File: BE098438.D
Acq: 14 Dec 2018 16:32

Tgt Ion:166 Resp: 1856
Ion Ratio Lower Upper
166 100
165 102.0 79.3 118.9
167 13.1 11.3 16.9



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# 1148

Delta R.T. -0.01 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

Instrument :

BNA_E

ClientSampleId :

PB115633BS

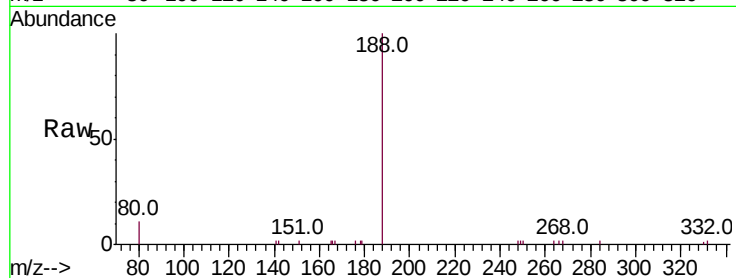
Tot Ion:188 Resp: 5902

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

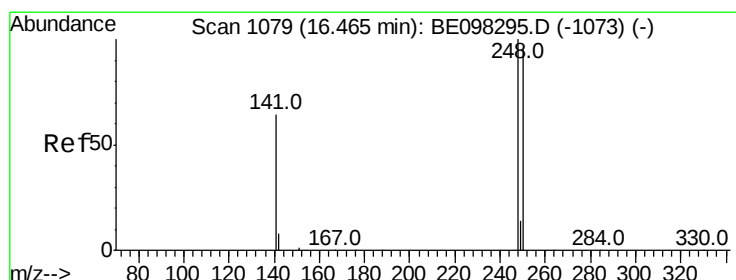
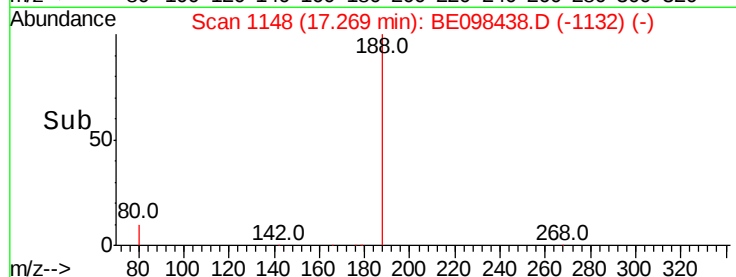
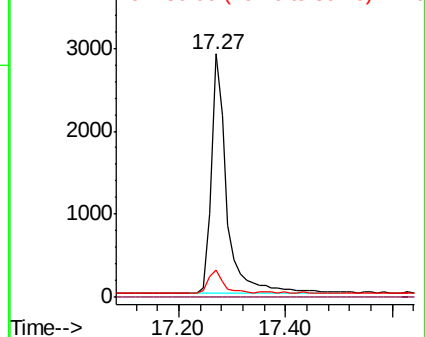
80 11.3 7.2 10.8#



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



#20

4-Bromophenyl-phenylether

Concen: 0.183 ng

RT: 16.46 min Scan# 1079

Delta R.T. -0.00 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

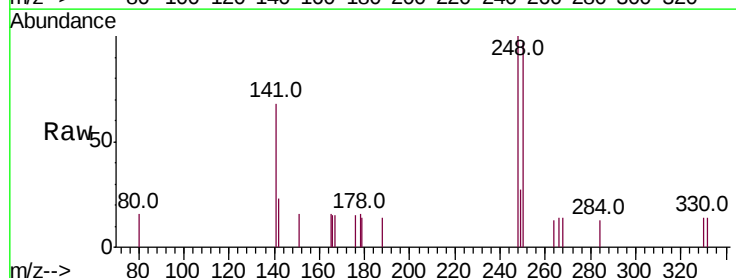
Tgt Ion:248 Resp: 580

Ion Ratio Lower Upper

248 100

250 96.7 71.0 106.6

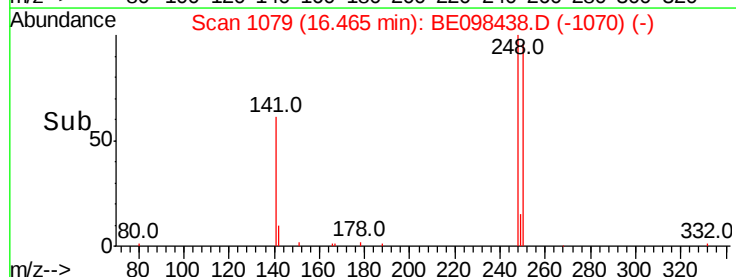
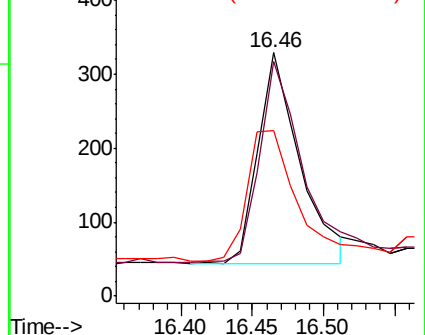
141 68.1 62.1 93.1

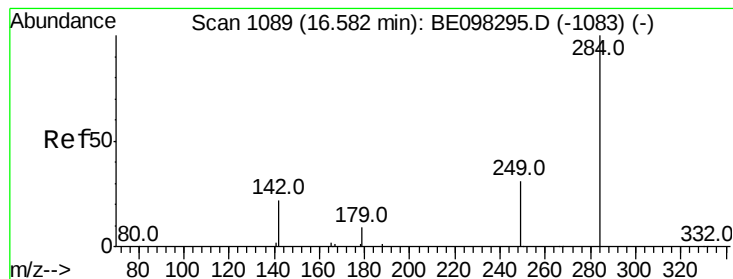


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.222 ng

RT: 16.58 min Scan# 1089

Delta R.T. -0.00 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

Instrument :

BNA_E

ClientSampleId :

PB115633BS

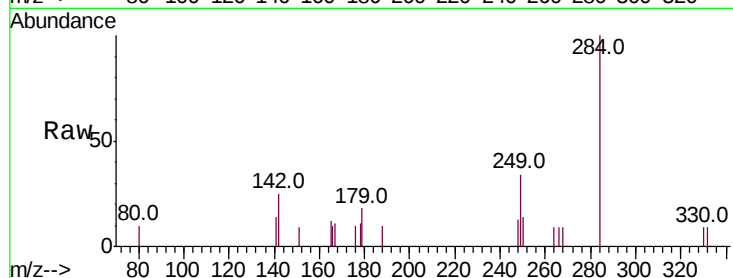
Tot Ion:284 Resp: 759

Ion Ratio Lower Upper

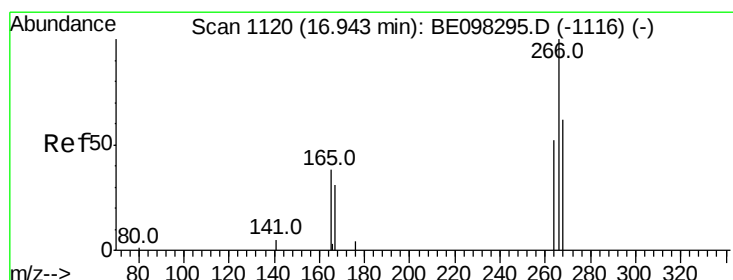
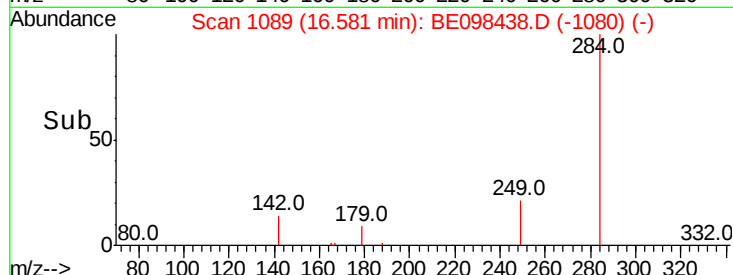
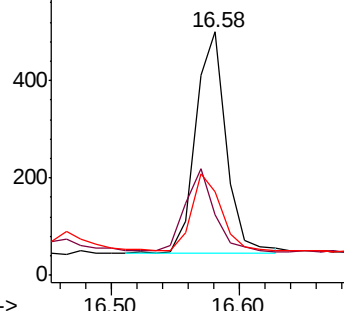
284 100

142 35.4 26.3 39.5

249 32.3 26.0 39.0



Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.146 ng

RT: 16.95 min Scan# 1121

Delta R.T. 0.01 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

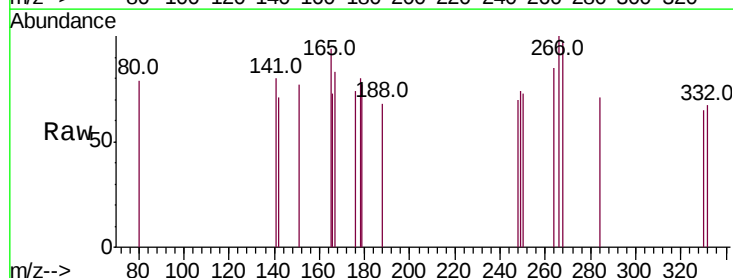
Tgt Ion:266 Resp: 69

Ion Ratio Lower Upper

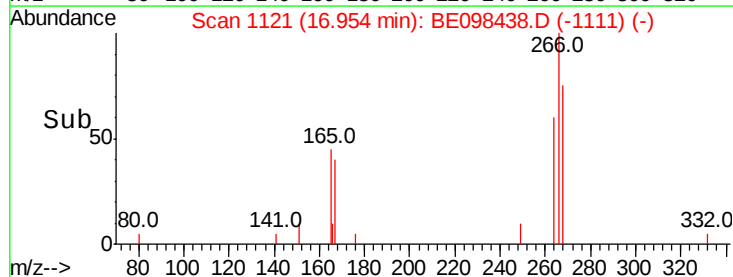
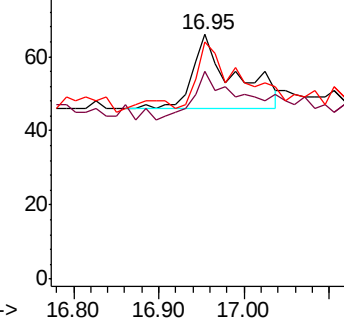
266 100

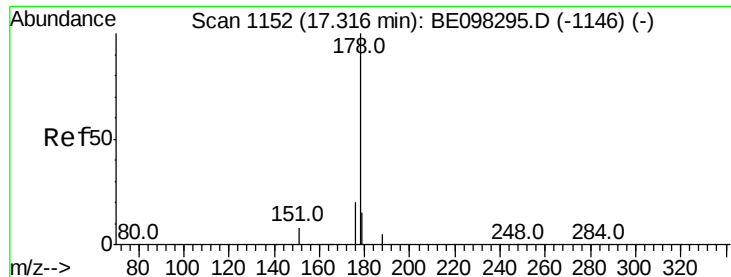
264 84.8 59.0 88.4

268 97.0 55.1 82.7#



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





#23

Phenanthrene

Concen: 0.226 ng

RT: 17.32 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

Instrument :

BNA_E

ClientSampleId :

PB115633BS

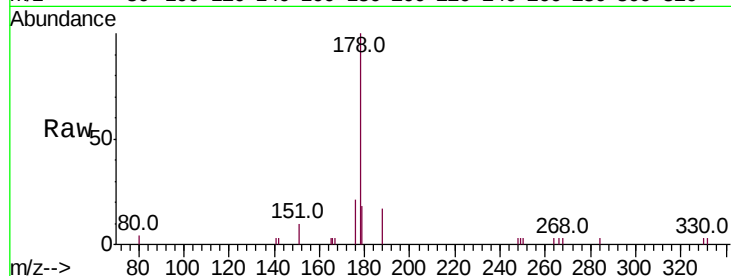
Tot Ion:178 Resp: 3247

Ion Ratio Lower Upper

178 100

176 20.0 15.9 23.9

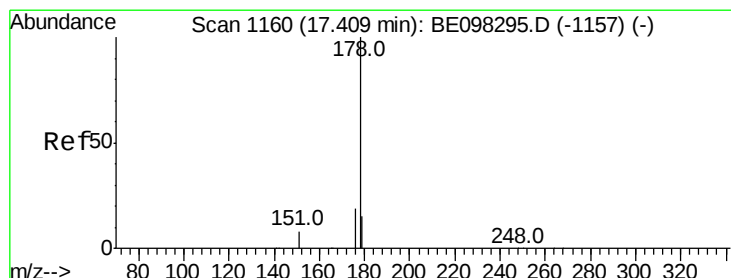
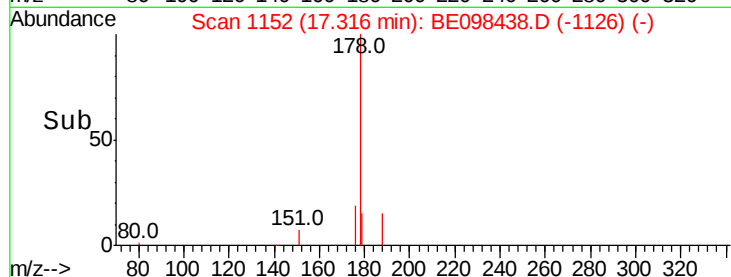
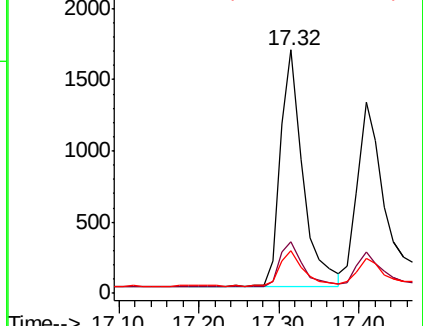
179 16.2 12.3 18.5



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: 0.202 ng

RT: 17.41 min Scan# 1160

Delta R.T. -0.00 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

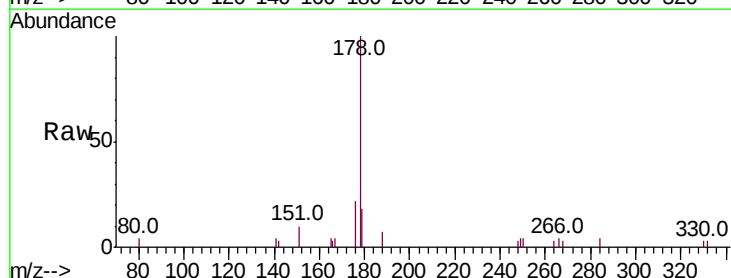
Tgt Ion:178 Resp: 2584

Ion Ratio Lower Upper

178 100

176 19.0 15.0 22.4

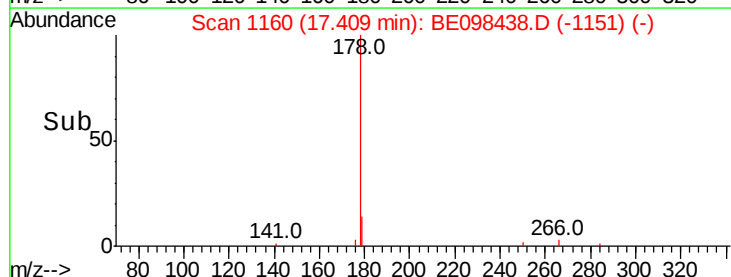
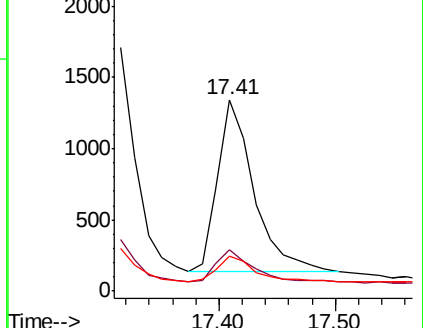
179 16.4 12.3 18.5



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

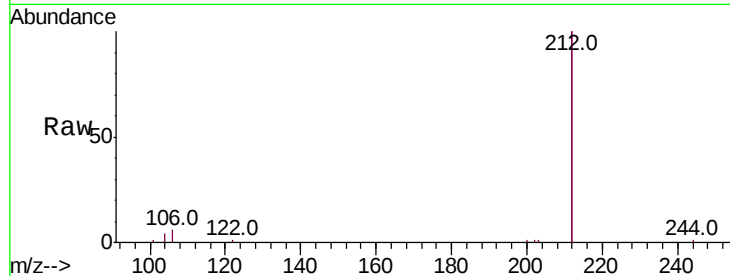




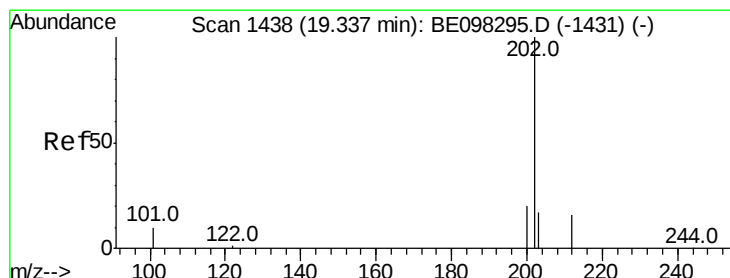
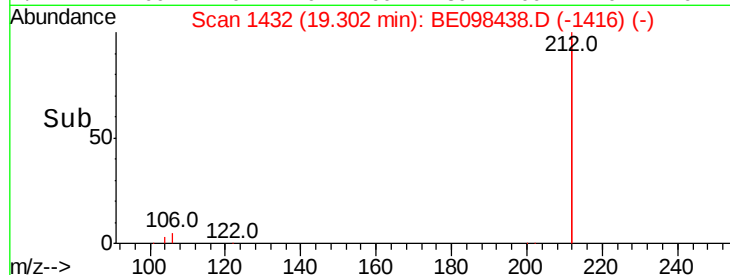
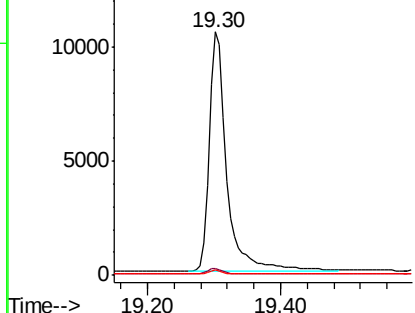
#25
Fluoranthene-d10
Concen: 0.253 ng
RT: 19.30 min Scan# 1432
Delta R.T. -0.01 min
Lab File: BE098438.D
Acq: 14 Dec 2018 16:32

Instrument :
BNA_E
ClientSampleId :
PB115633BS

Tot Ion:212 Resp: 19184
Ion Ratio Lower Upper
212 100
106 2.5 2.2 3.2
104 1.4 1.3 1.9

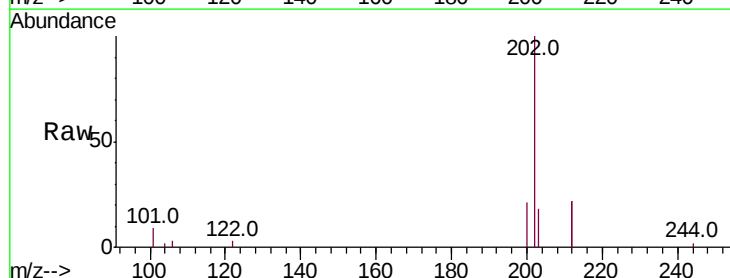


Abundance Ion 212.00 (211.70 to 212.70): E
Ion 106.00 (105.70 to 106.70): E
Ion 104.00 (103.70 to 104.70): E

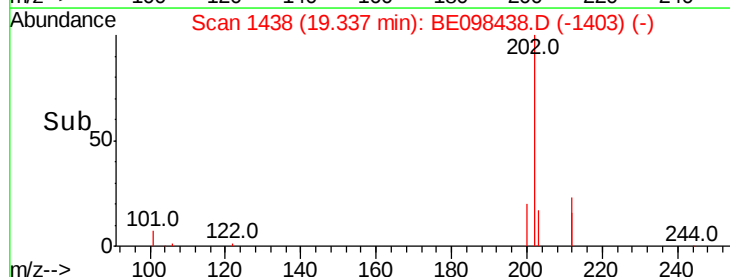
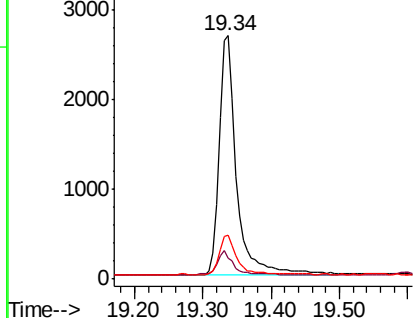


#26
Fluoranthene
Concen: 0.253 ng
RT: 19.34 min Scan# 1438
Delta R.T. -0.00 min
Lab File: BE098438.D
Acq: 14 Dec 2018 16:32

Tgt Ion:202 Resp: 4797
Ion Ratio Lower Upper
202 100
101 8.8 8.0 12.0
203 16.7 13.8 20.6



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: 21.46 min Scan# 1671

Delta R.T. -0.00 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

Instrument :

BNA_E

ClientSampleId :

PB115633BS

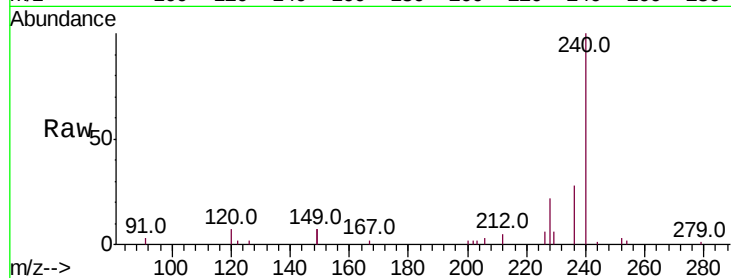
Tot Ion:240 Resp: 7954

Ion Ratio Lower Upper

240 100

120 7.0 9.5 14.3#

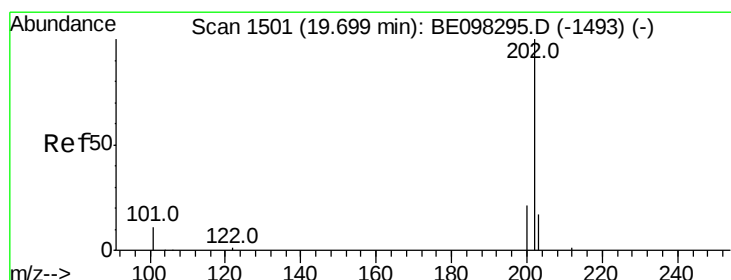
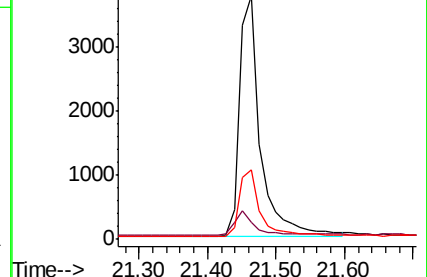
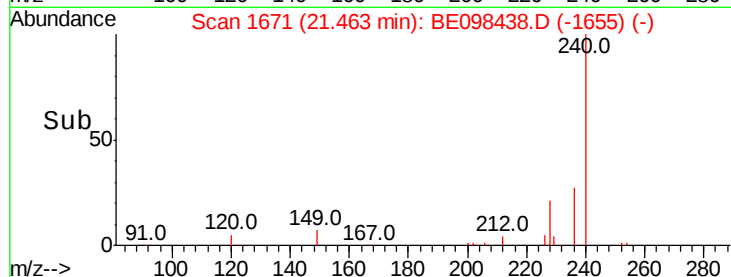
236 28.4 22.7 34.1



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: 0.194 ng

RT: 19.70 min Scan# 1501

Delta R.T. -0.00 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

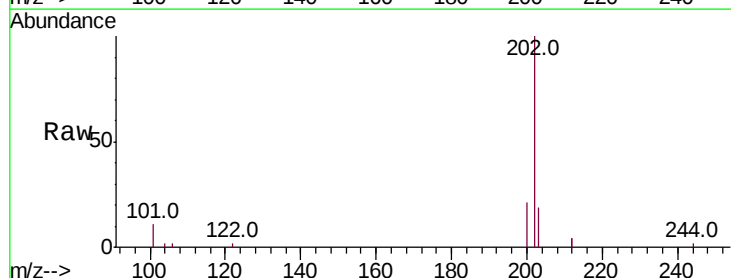
Tgt Ion:202 Resp: 4832

Ion Ratio Lower Upper

202 100

200 20.7 16.7 25.1

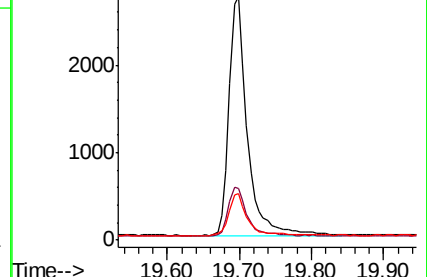
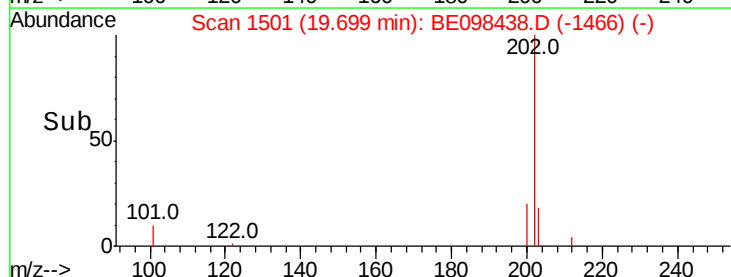
203 17.6 14.1 21.1

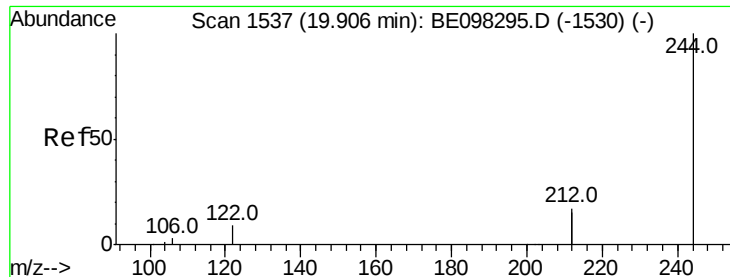


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.182 ng

RT: 19.90 min Scan# 1536

Delta R.T. -0.01 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

Instrument :

BNA_E

ClientSampleId :

PB115633BS

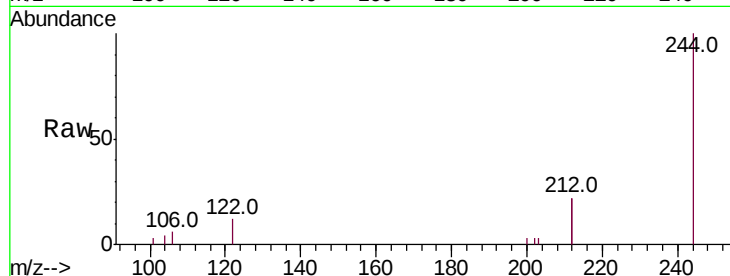
Tot Ion:244 Resp: 3509

Ion Ratio Lower Upper

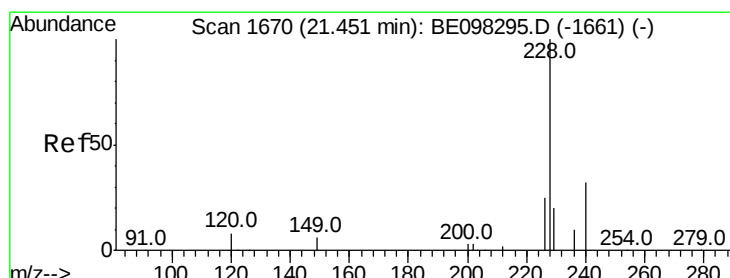
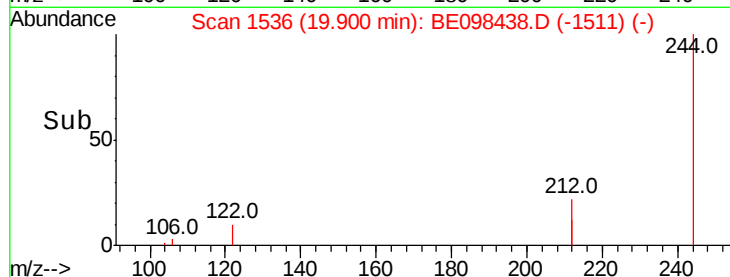
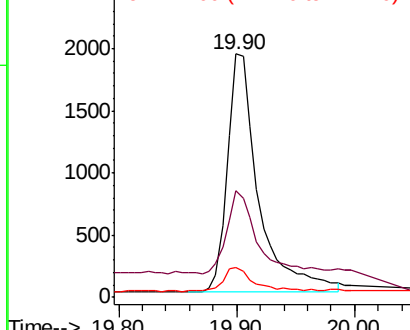
244 100

212 43.8 27.4 41.0#

122 12.3 8.3 12.5



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: 0.224 ng

RT: 21.44 min Scan# 1669

Delta R.T. -0.01 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

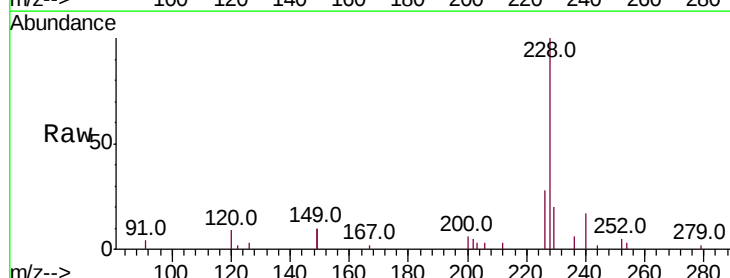
Tgt Ion:228 Resp: 5077

Ion Ratio Lower Upper

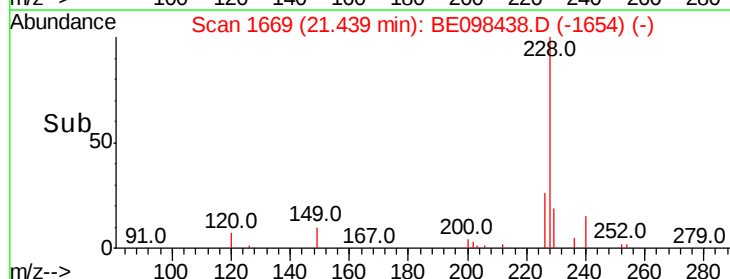
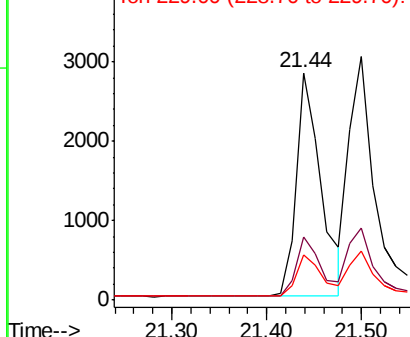
228 100

226 27.7 21.8 32.8

229 20.1 16.3 24.5



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: 0.224 ng

RT: 21.50 min Scan# 1674

Delta R.T. -0.00 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

Instrument :

BNA_E

ClientSampleId :

PB115633BS

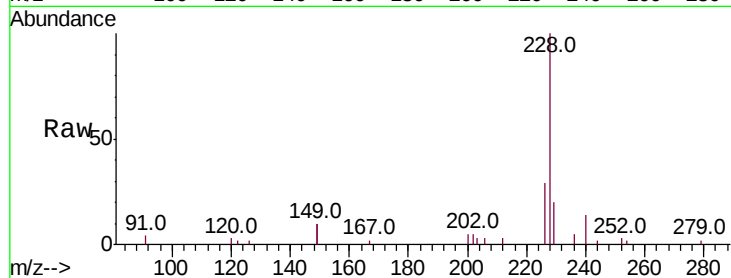
Tot Ion:228 Resp: 5304

Ion Ratio Lower Upper

228 100

226 29.4 23.4 35.0

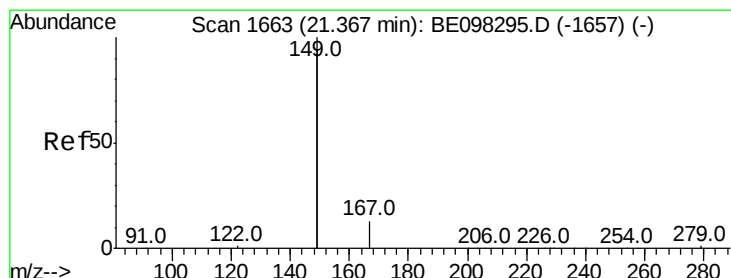
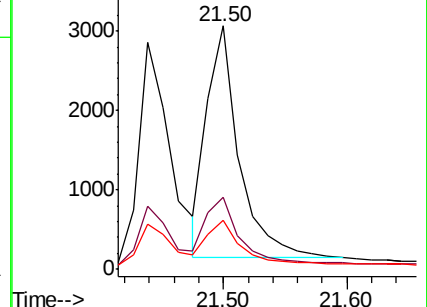
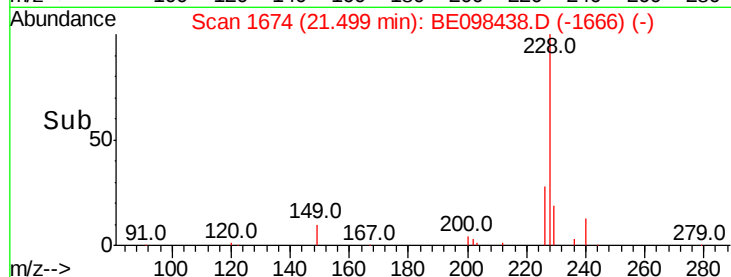
229 20.4 16.2 24.4



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: 0.169 ng

RT: 21.35 min Scan# 1662

Delta R.T. -0.01 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

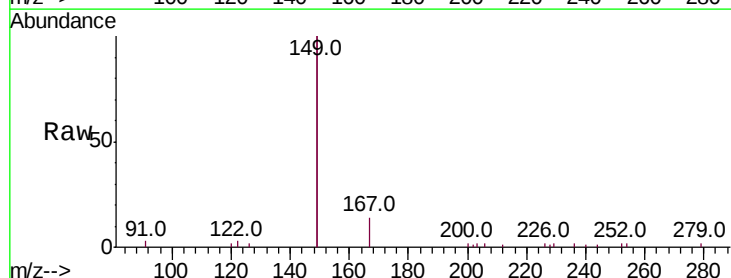
Tgt Ion:149 Resp: 7795

Ion Ratio Lower Upper

149 100

167 7.1 5.7 8.5

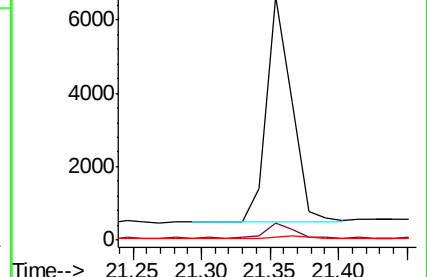
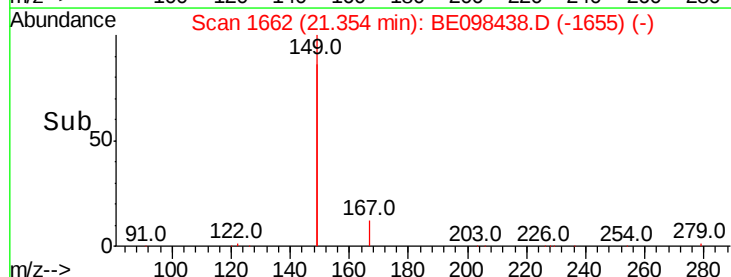
279 1.2 1.0 1.4

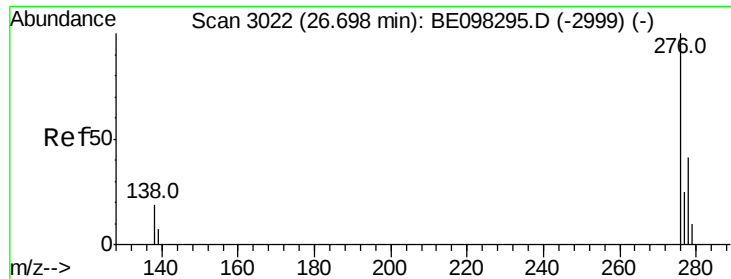


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.223 ng

RT: 26.69 min Scan# 3019

Delta R.T. -0.01 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

Instrument :

BNA_E

ClientSampleId :

PB115633BS

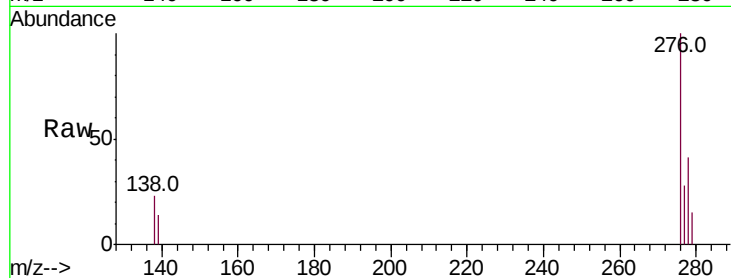
Tot Ion:276 Resp: 5258

Ion Ratio Lower Upper

276 100

138 8.8 16.3 24.5#

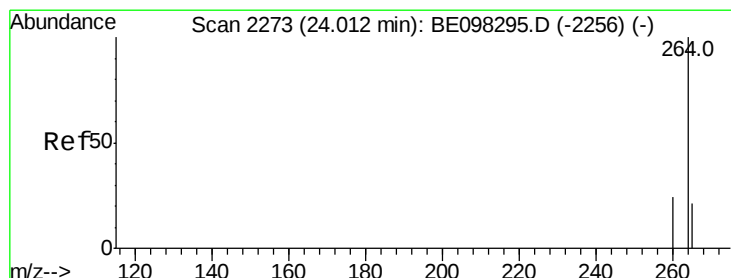
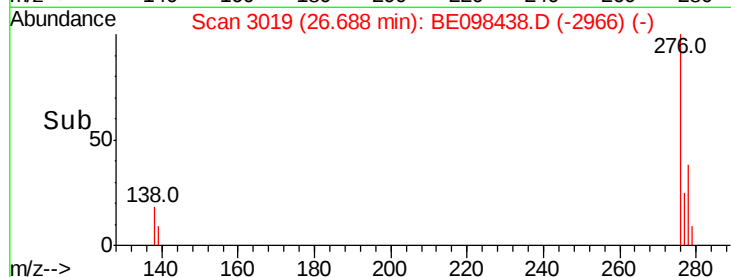
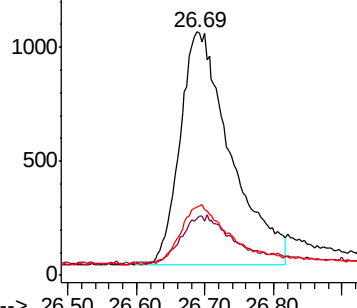
277 22.7 20.2 30.4



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: 24.00 min Scan# 2270

Delta R.T. -0.01 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

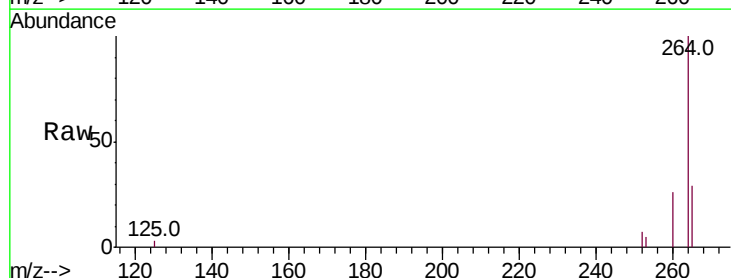
Tgt Ion:264 Resp: 7451

Ion Ratio Lower Upper

264 100

260 26.1 20.2 30.2

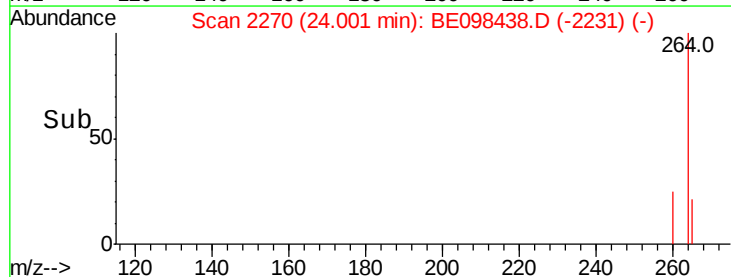
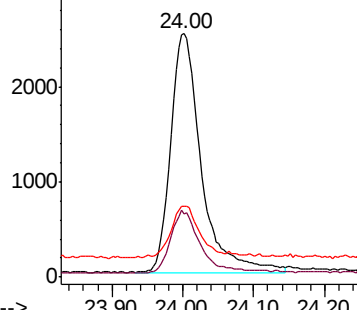
265 29.0 25.2 37.8

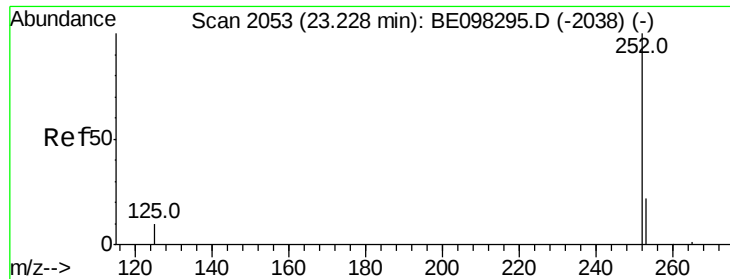


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.234 ng

RT: 23.22 min Scan# 2051

Delta R.T. -0.01 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

Instrument :

BNA_E

ClientSampleId :

PB115633BS

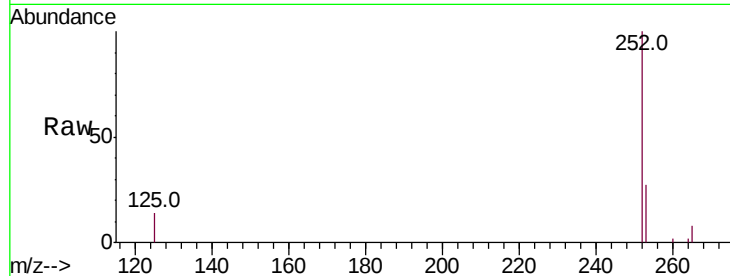
Tot Ion:252 Resp: 4761

Ion Ratio Lower Upper

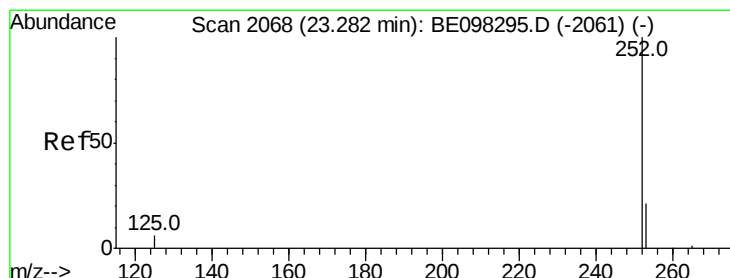
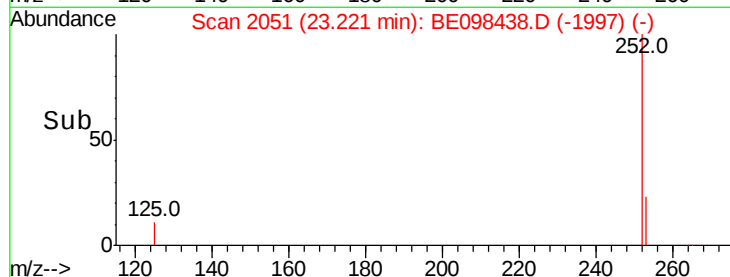
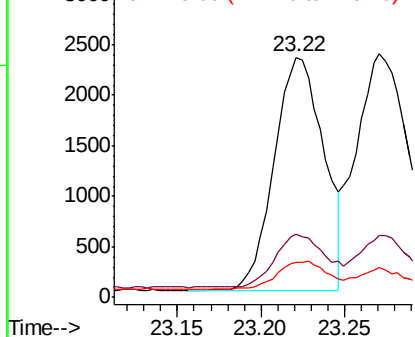
252 100

253 26.5 20.0 30.0

125 14.4 9.6 14.4



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: 0.228 ng

RT: 23.27 min Scan# 2065

Delta R.T. -0.01 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

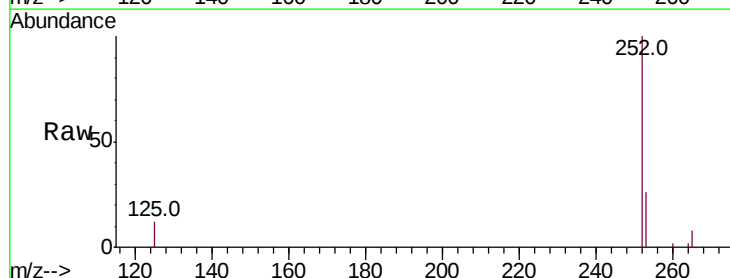
Tgt Ion:252 Resp: 5401

Ion Ratio Lower Upper

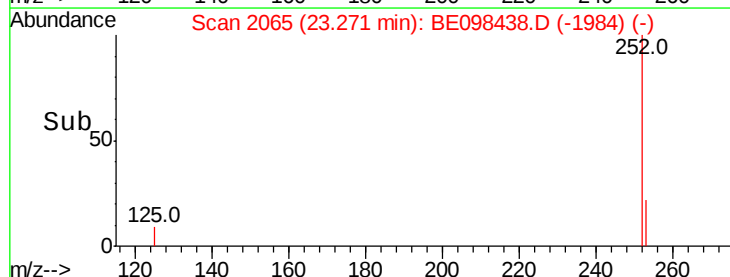
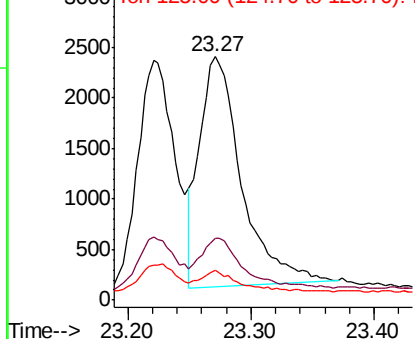
252 100

253 25.6 19.0 28.6

125 12.0 9.1 13.7



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: 0.233 ng

RT: 23.89 min Scan# 2239

Delta R.T. -0.01 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

Instrument :

BNA_E

ClientSampleId :

PB115633BS

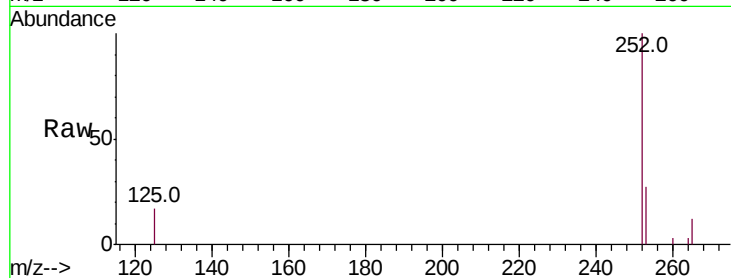
Tot Ion:252 Resp: 4897

Ion Ratio Lower Upper

252 100

253 27.3 20.6 30.8

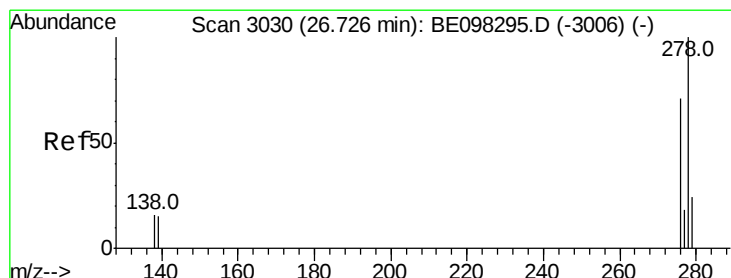
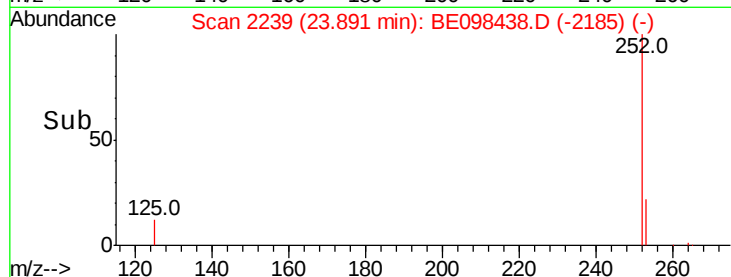
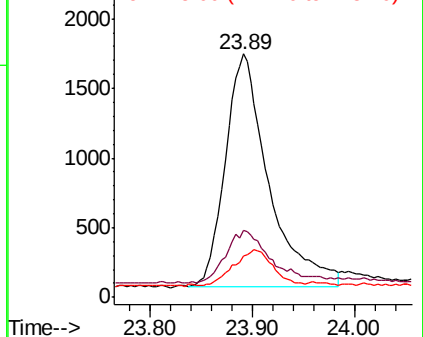
125 17.0 10.5 15.7#



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: 0.212 ng

RT: 26.72 min Scan# 3028

Delta R.T. -0.01 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

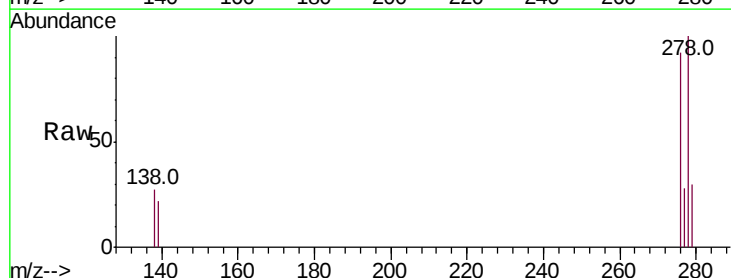
Tgt Ion:278 Resp: 4197

Ion Ratio Lower Upper

278 100

139 22.4 14.5 21.7#

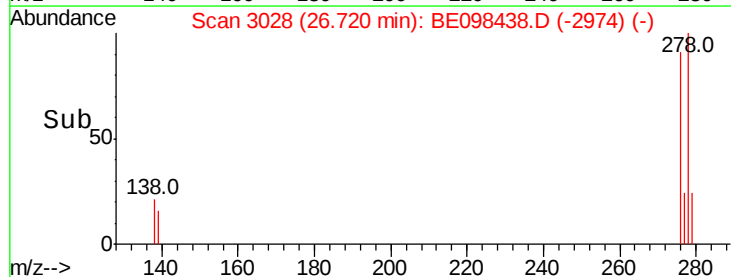
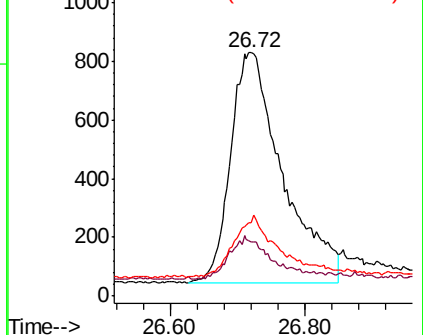
279 30.4 21.8 32.8

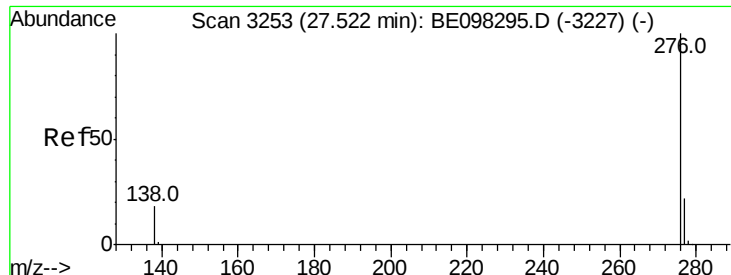


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.220 ng

RT: 27.50 min Scan# 3248

Delta R.T. -0.02 min

Lab File: BE098438.D

Acq: 14 Dec 2018 16:32

Instrument :

BNA_E

ClientSampleId :

PB115633BS

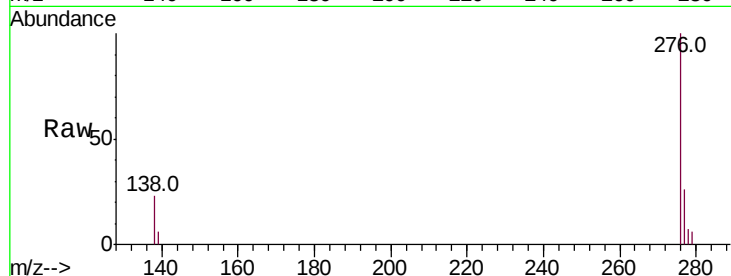
Tot Ion:276 Resp: 4385

Ion Ratio Lower Upper

276 100

277 26.1 20.8 31.2

138 23.0 15.8 23.6



Abundance Ion 276.00 (275.70 to 276.70): E

1500 Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

