

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE092018\
 Data File : BE097600.D
 Acq On : 21 Sep 2018 8:02
 Operator : SJ/JU
 Sample : J4980-01
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Sep 21 13:25:14 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE091918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 20 10:54:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.38	152	795	0.40	ng	0.00
7) Naphthalene-d8	10.13	136	3670	0.40	ng	0.00
13) Acenaphthene-d10	14.00	164	2233	0.40	ng	0.00
19) Phenanthrene-d10	16.77	188	7141	0.40	ng	0.01
27) Chrysene-d12	20.97	240	10398	0.40	ng	0.00
34) Perylene-d12	23.20	264	10104	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.05	112	343	0.14	ng	0.00
5) Phenol-d6	6.63	99	173	0.06	ng	0.02
8) Nitrobenzene-d5	8.55	82	880	0.31	ng	0.02
11) 2-Methylnaphthalene-d10	11.73	152	1946	0.38	ng	0.00
14) 2,4,6-Tribromophenol	15.53	330	328	0.39	ng	0.01
15) 2-Fluorobiphenyl	12.62	172	3787	0.48	ng	0.00
25) Fluoranthene-d10	18.80	212	36306	0.40	ng	0.00
29) Terphenyl-d14	19.41	244	8377	0.44	ng	0.00

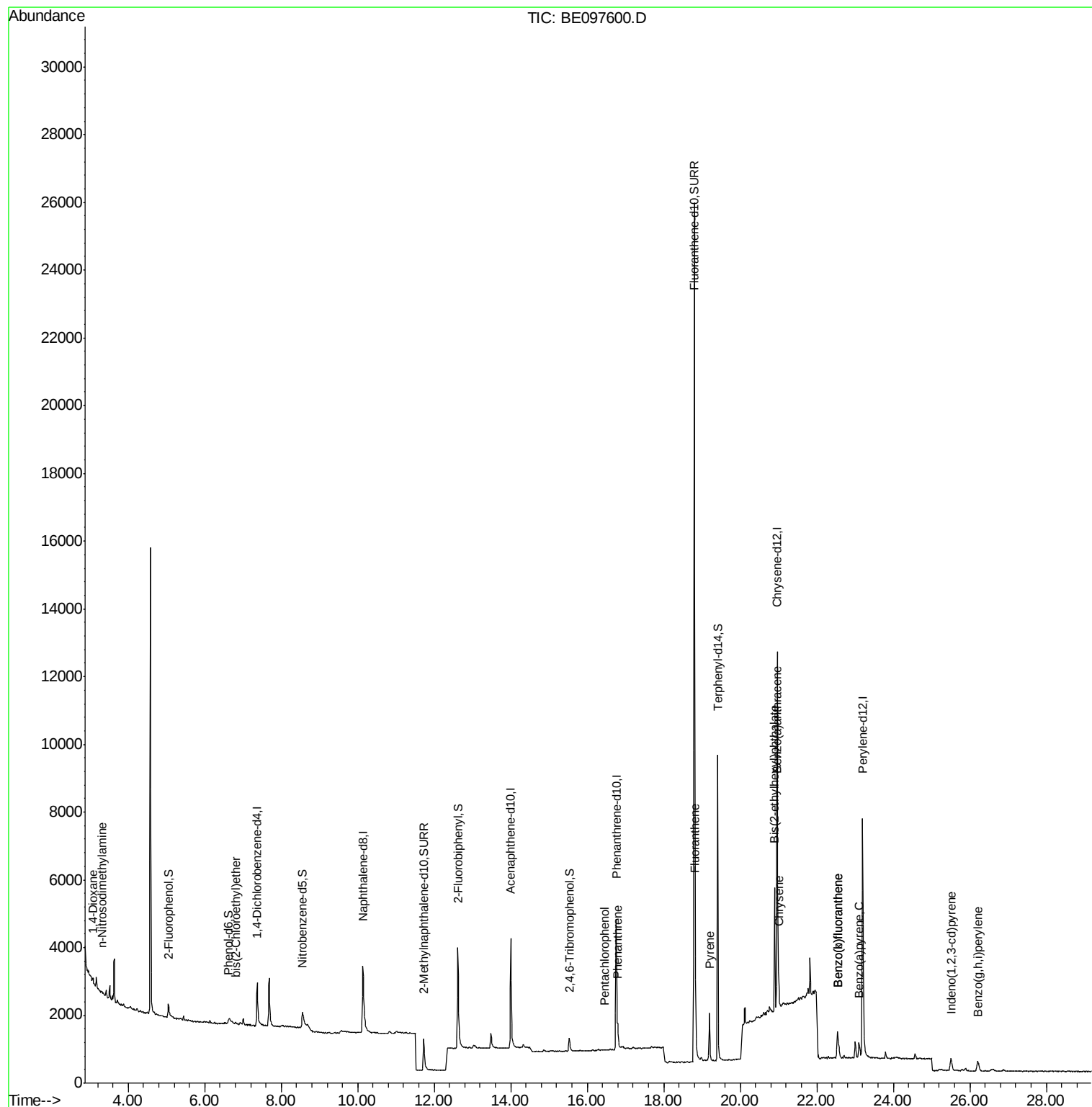
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.08	88	122	0.054	ng	# 60
3) n-Nitrosodimethylamine	3.31	42	13	0.027	ng	# 1
6) bis(2-Chloroethyl)ether	6.81	93	83	0.029	ng	# 1
22) Pentachlorophenol	16.46	266	6	0.133	ng	93
23) Phenanthrene	16.80	178	691	0.041	ng	# 94
26) Fluoranthene	18.83	202	1581	0.067	ng	99
28) Pyrene	19.20	202	1408	0.059	ng	# 95
30) Benzo(a)anthracene	20.95	228	661	0.025	ng	# 86
31) Chrysene	21.00	228	1010	0.036	ng	# 83
32) Bis(2-ethylhexyl)phthalate	20.89	149	4352	0.109	ng	# 99
33) Indeno(1,2,3-cd)pyrene	25.51	276	681	0.020	ng	# 92
35) Benzo(b)fluoranthene	22.53	252	1354	0.052	ng	# 76
36) Benzo(k)fluoranthene	22.53	252	1354	0.046	ng	# 57
37) Benzo(a)pyrene	23.10	252	760	0.049	ng	# 39
39) Benzo(a,h,i)perylene	26.21	276	727	0.028	ng	# 70

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

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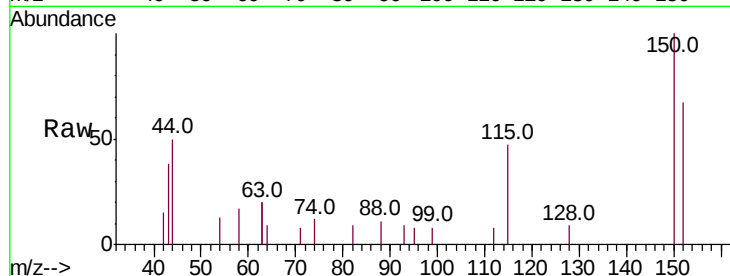


#1

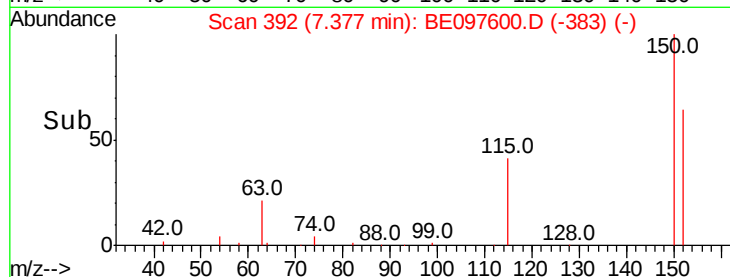
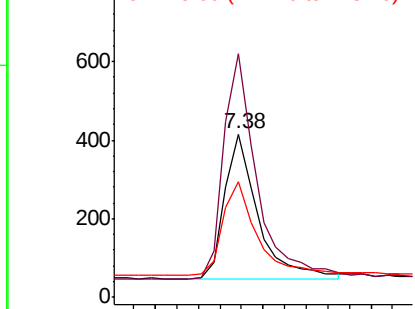
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.38 min Scan# 392
Delta R.T. -0.00 min
Lab File: BE097600.D
Acq: 21 Sep 2018 8:02

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 795
Ion Ratio Lower Upper
152 100
150 149.4 117.2 175.8
115 70.8 57.0 85.6



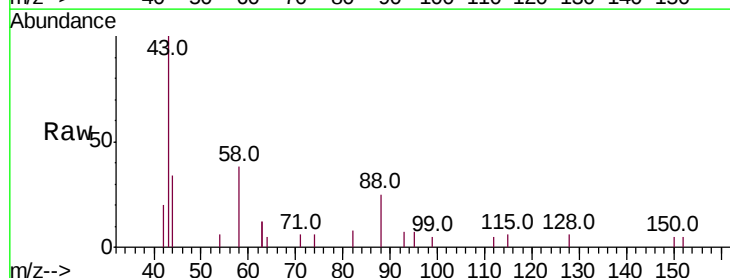
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



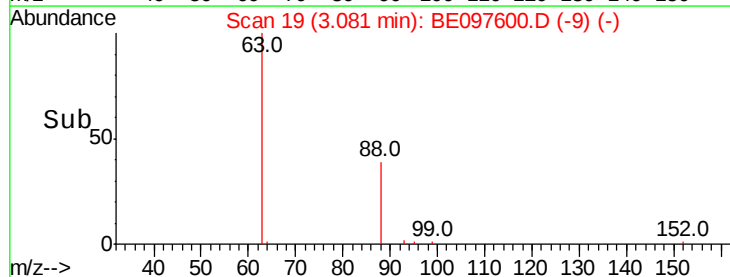
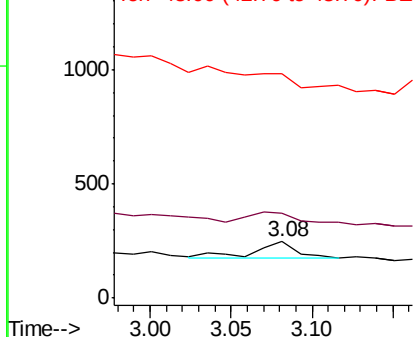
#2

1,4-Dioxane
Concen: 0.054 ng
RT: 3.08 min Scan# 19
Delta R.T. 0.01 min
Lab File: BE097600.D
Acq: 21 Sep 2018 8:02

Tgt Ion: 88 Resp: 122
Ion Ratio Lower Upper
88 100
58 95.1 63.2 94.8#
43 0.0 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





#3

n-Nitrosodimethylamine

Concen: 0.027 ng

RT: 3.31 min Scan# 39

Delta R.T. -0.06 min

Lab File: BE097600.D

Acq: 21 Sep 2018 8:02

Instrument :

BNA_E

ClientSampleId :

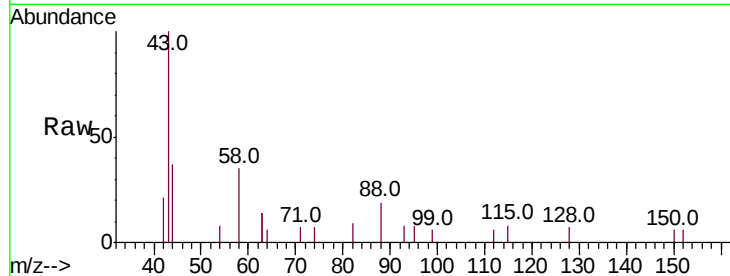
Tot Ion: 42 Resp: 13

Ion Ratio Lower Upper

42 100

74 0.0 96.0 144.0#

44 246.2 12.0 18.0#



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

300

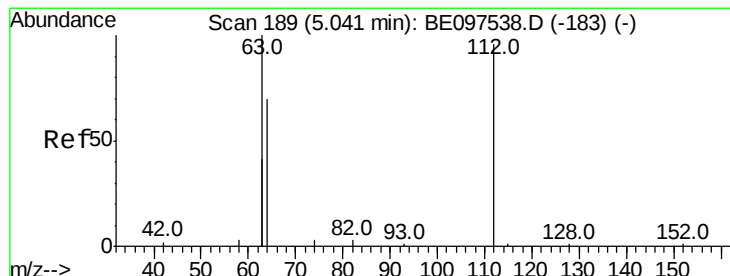
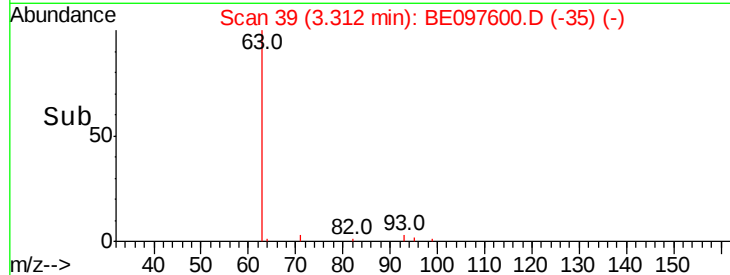
200

100

0

3.30 3.35

Time-->



#4

2-Fluorophenol

Concen: 0.144 ng

RT: 5.05 min Scan# 190

Delta R.T. -0.00 min

Lab File: BE097600.D

Acq: 21 Sep 2018 8:02

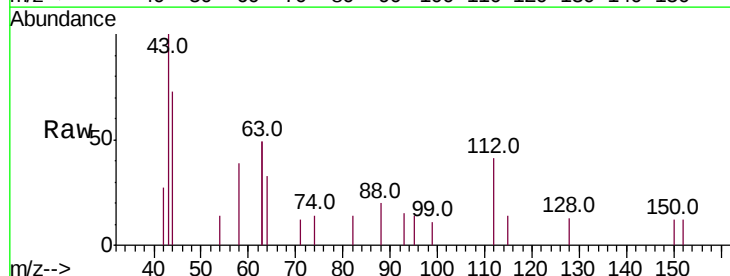
Tgt Ion: 112 Resp: 343

Ion Ratio Lower Upper

112 100

64 66.2 60.1 90.1

63 153.1 116.8 175.2



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

500

400

300

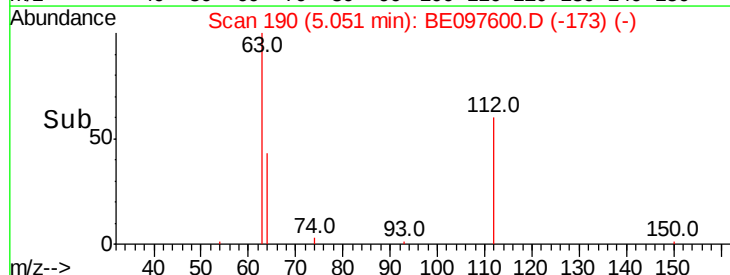
200

100

0

4.90 5.00 5.10 5.20

Time-->





#5

Phenol-d6

Concen: 0.057 ng

RT: 6.63 min Scan# 327

Delta R.T. 0.02 min

Lab File: BE097600.D

Acq: 21 Sep 2018 8:02

Instrument :

BNA_E

ClientSampleId :

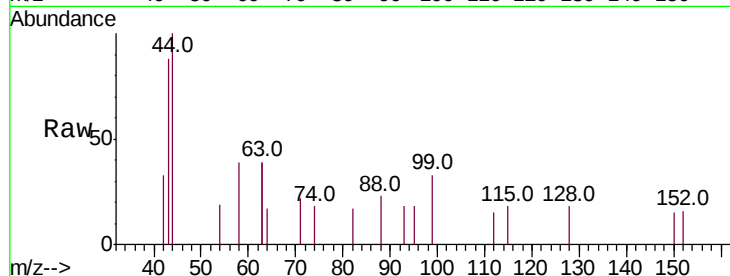
Tot Ion: 99 Resp: 173

Ion Ratio Lower Upper

99 100

42 8.1 20.2 30.2#

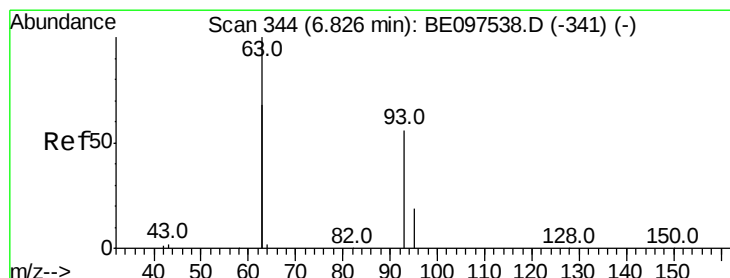
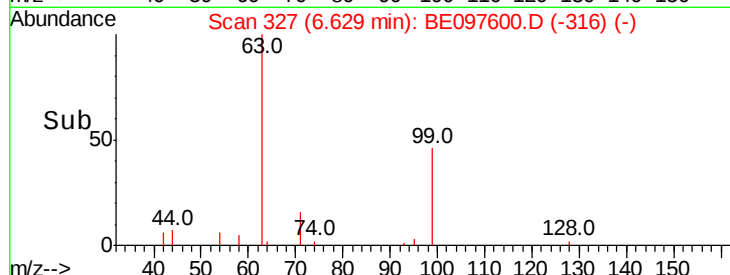
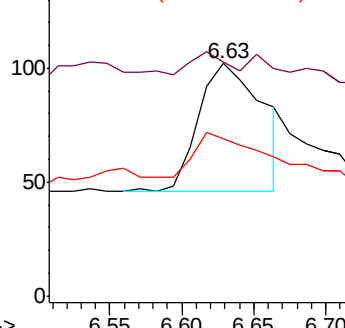
71 31.8 28.4 42.6



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



#6

bis(2-Chloroethyl)ether

Concen: 0.029 ng

RT: 6.81 min Scan# 343

Delta R.T. -0.01 min

Lab File: BE097600.D

Acq: 21 Sep 2018 8:02

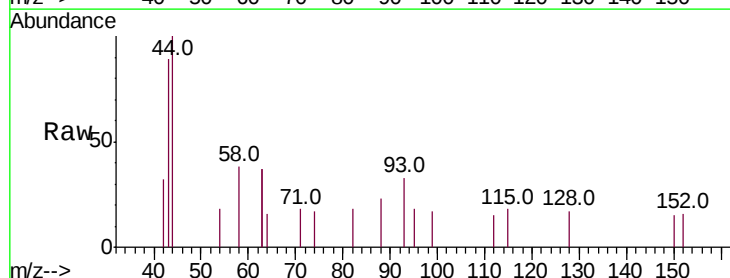
Tgt Ion: 93 Resp: 83

Ion Ratio Lower Upper

93 100

63 0.0 275.3 412.9#

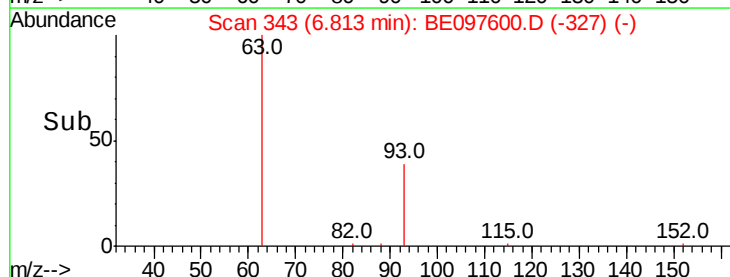
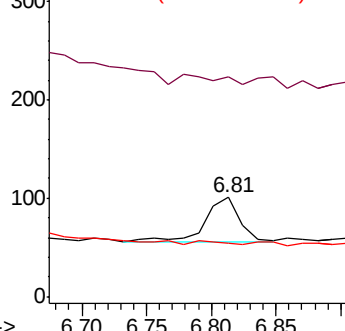
95 0.0 25.2 37.8#



Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.13 min Scan# 612

Delta R.T. 0.00 min

Lab File: BE097600.D

Acq: 21 Sep 2018 8:02

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 3670

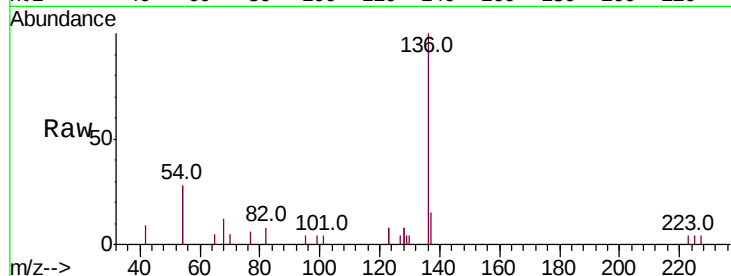
Ion Ratio Lower Upper

136 100

137 14.5 9.5 14.3#

54 55.4 29.1 43.7#

68 12.1 6.2 9.2#

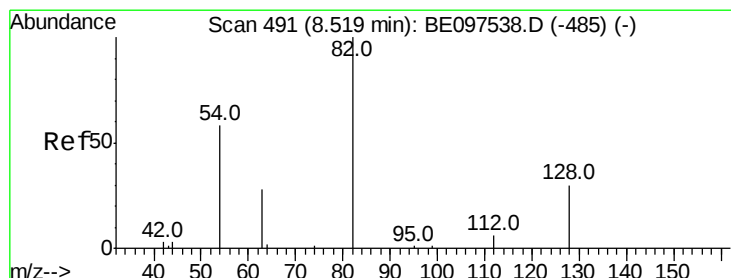
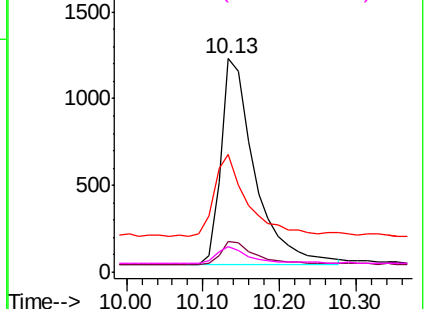
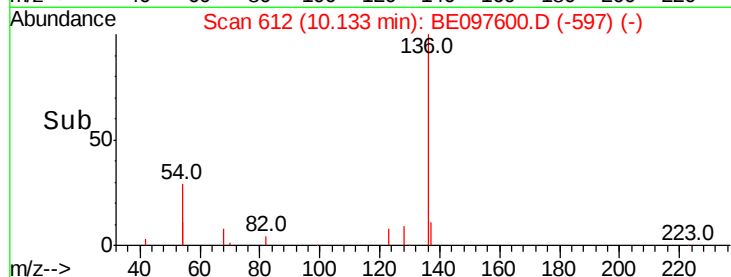


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.310 ng

RT: 8.55 min Scan# 494

Delta R.T. 0.02 min

Lab File: BE097600.D

Acq: 21 Sep 2018 8:02

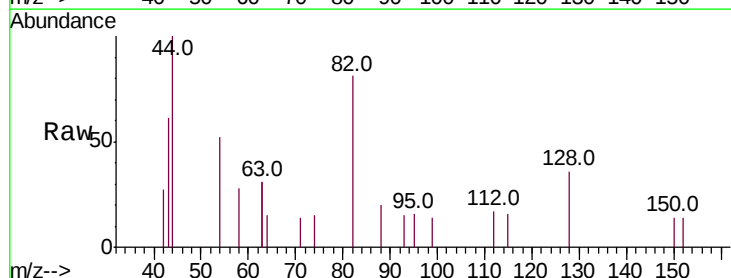
Tgt Ion: 82 Resp: 880

Ion Ratio Lower Upper

82 100

128 43.6 24.0 36.0#

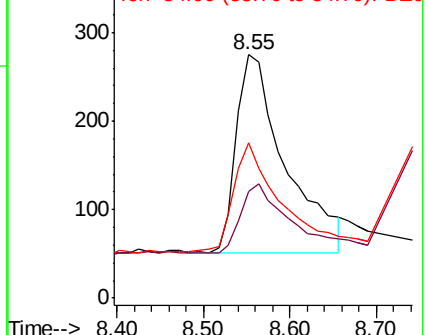
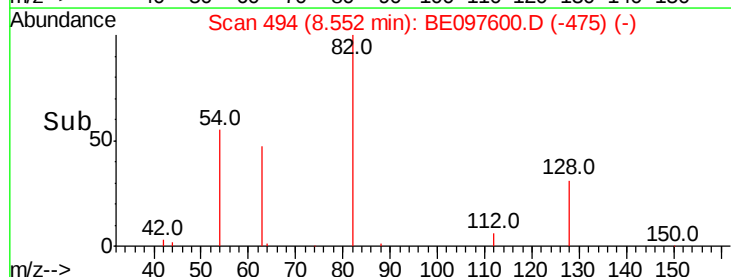
54 63.6 40.0 60.0#

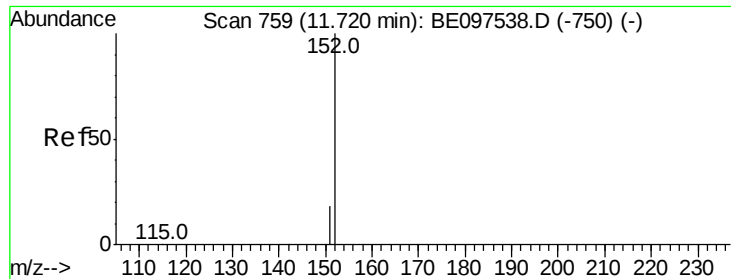


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

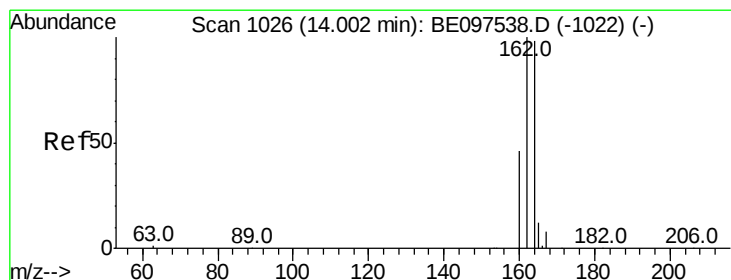
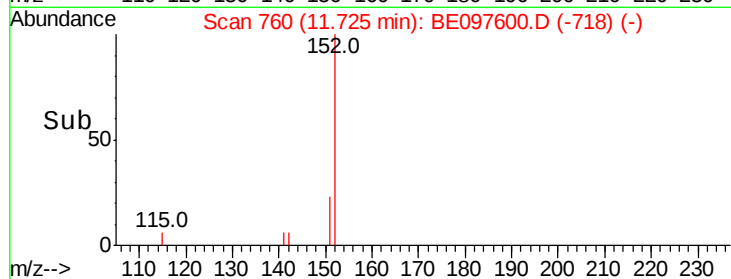
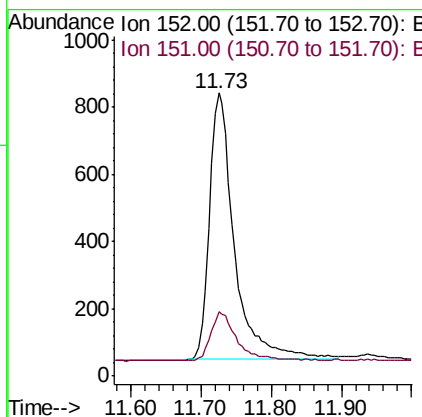
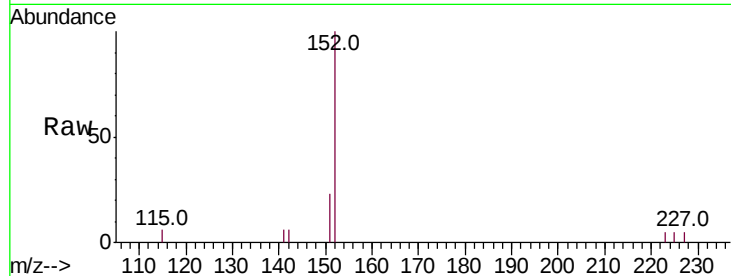




#11
2-Methylnaphthalene-d10
Concen: 0.385 ng
RT: 11.73 min Scan# 760
Delta R.T. 0.01 min
Lab File: BE097600.D
Acq: 21 Sep 2018 8:02

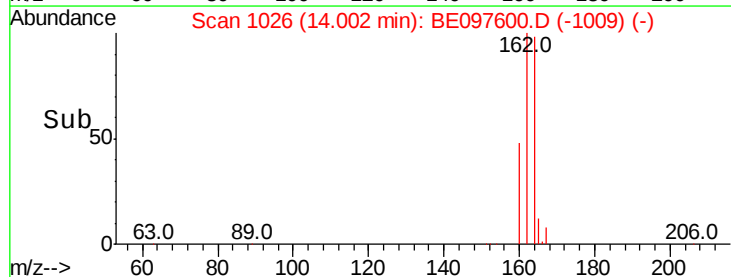
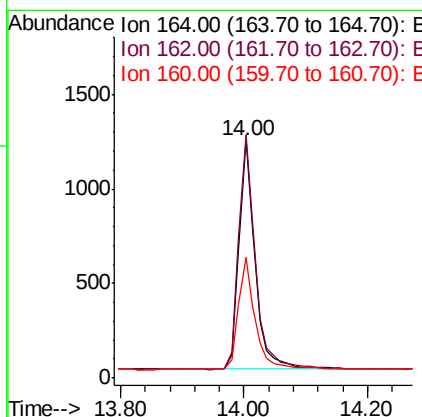
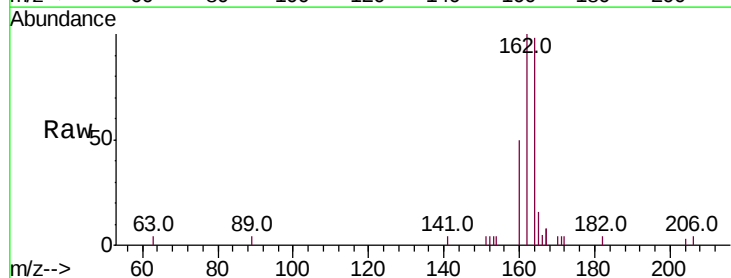
Instrument :
BNA_E
ClientSampleId :

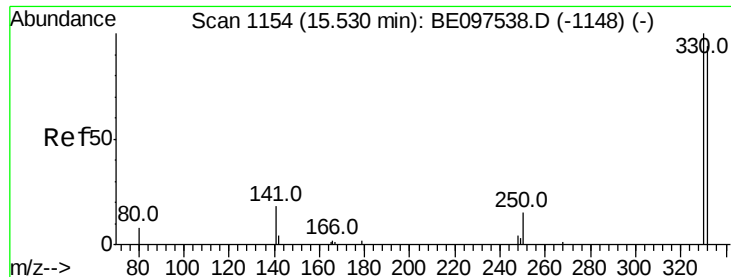
Tot Ion:152 Resp: 1946
Ion Ratio Lower Upper
152 100
151 18.2 15.4 23.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.00 min Scan# 1026
Delta R.T. -0.00 min
Lab File: BE097600.D
Acq: 21 Sep 2018 8:02

Tgt Ion:164 Resp: 2233
Ion Ratio Lower Upper
164 100
162 102.3 83.1 124.7
160 50.8 37.1 55.7





#14

2,4,6-Tribromophenol

Concen: 0.395 ng

RT: 15.53 min Scan# 1154

Delta R.T. 0.01 min

Lab File: BE097600.D

Acq: 21 Sep 2018 8:02

Instrument :

BNA_E

ClientSampled :

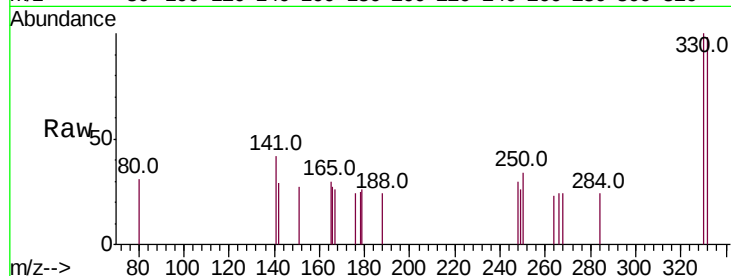
Tot Ion:330 Resp: 328

Ion Ratio Lower Upper

330 100

332 95.4 152.7 229.1#

141 32.3 33.7 50.5#

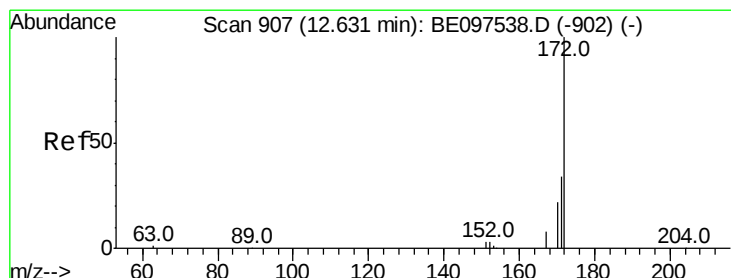
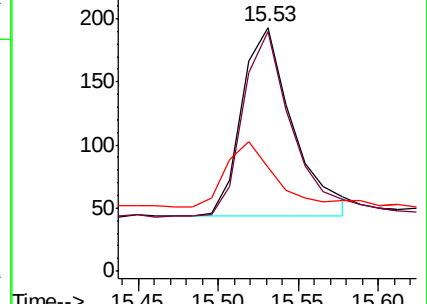
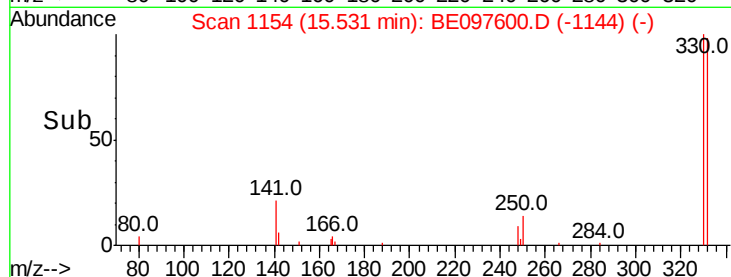


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

Time-->



#15

2-Fluorobiphenyl

Concen: 0.480 ng

RT: 12.62 min Scan# 906

Delta R.T. -0.00 min

Lab File: BE097600.D

Acq: 21 Sep 2018 8:02

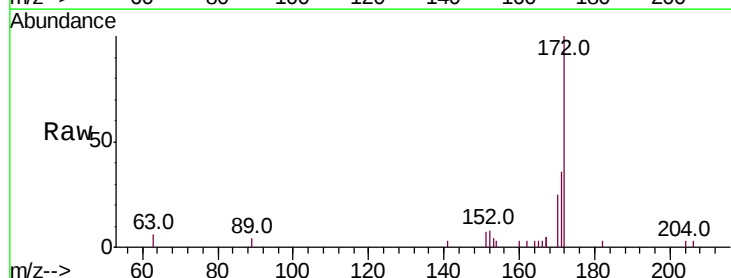
Tgt Ion:172 Resp: 3787

Ion Ratio Lower Upper

172 100

171 36.4 29.9 44.9

170 25.4 21.8 32.8

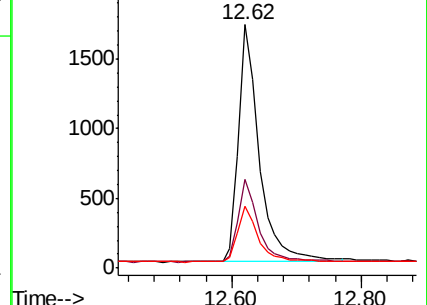
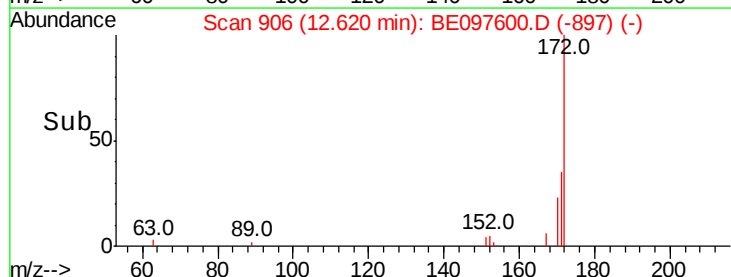


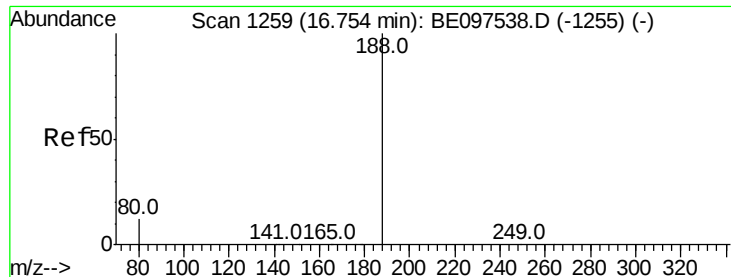
Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

Time-->





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.77 min Scan# 1260

Delta R.T. 0.01 min

Lab File: BE097600.D

Acq: 21 Sep 2018 8:02

Instrument :

BNA_E

ClientSampleId :

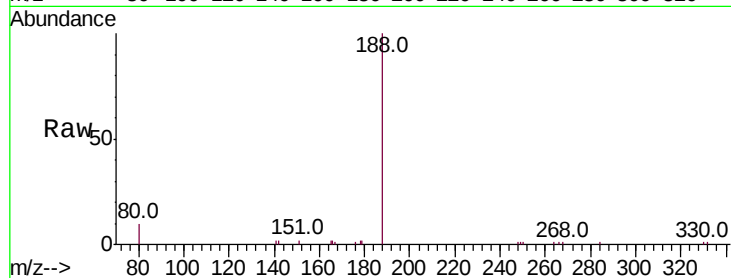
Tot Ion:188 Resp: 7141

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

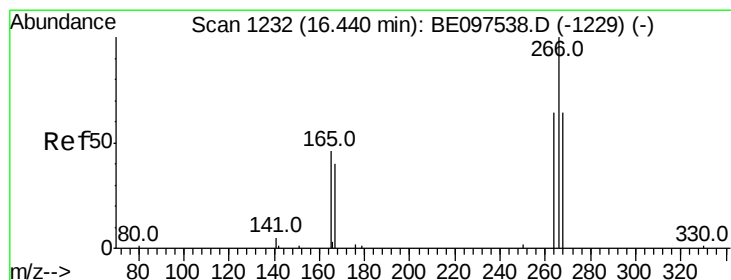
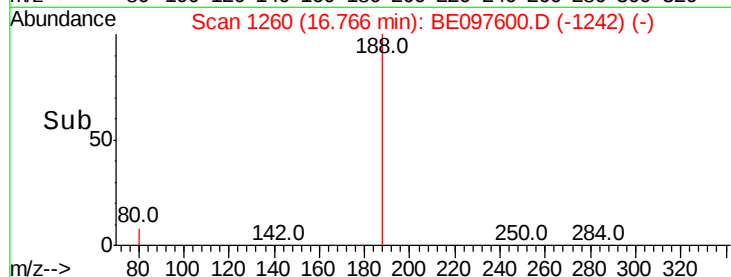
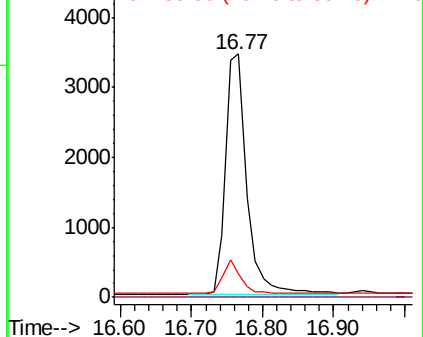
80 9.6 3.6 5.4#



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: 0.133 ng

RT: 16.46 min Scan# 1234

Delta R.T. 0.02 min

Lab File: BE097600.D

Acq: 21 Sep 2018 8:02

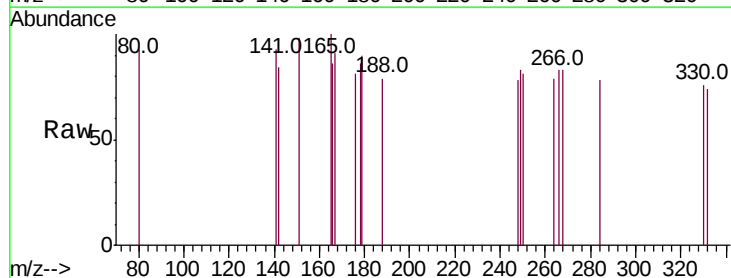
Tgt Ion:266 Resp: 6

Ion Ratio Lower Upper

266 100

264 95.8 72.5 108.7

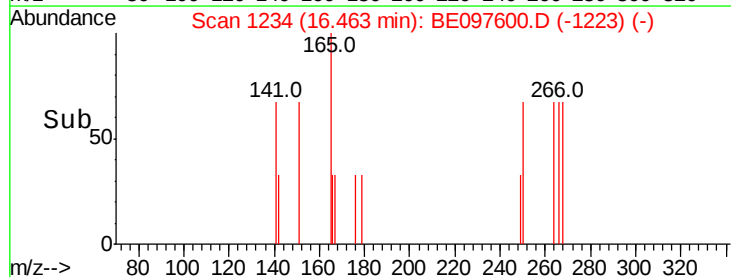
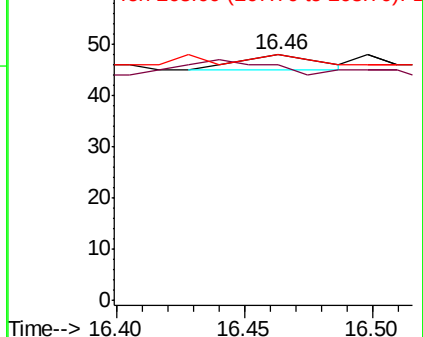
268 100.0 73.8 110.6

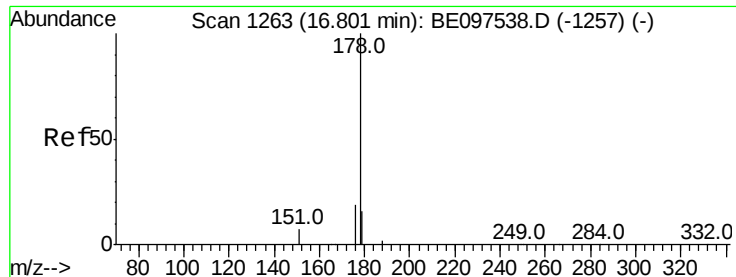


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.041 ng

RT: 16.80 min Scan# 1263

Delta R.T. -0.00 min

Lab File: BE097600.D

Acq: 21 Sep 2018 8:02

Instrument :

BNA_E

ClientSampleId :

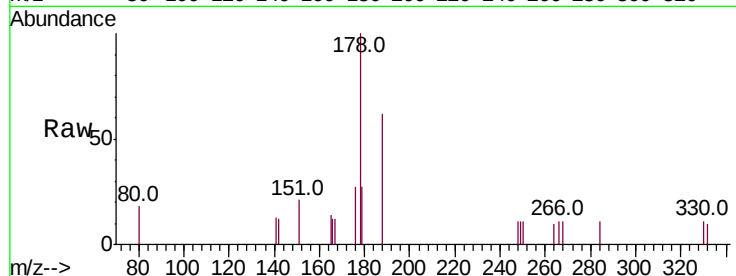
Tot Ion:178 Resp: 691

Ion Ratio Lower Upper

178 100

176 20.1 15.1 22.7

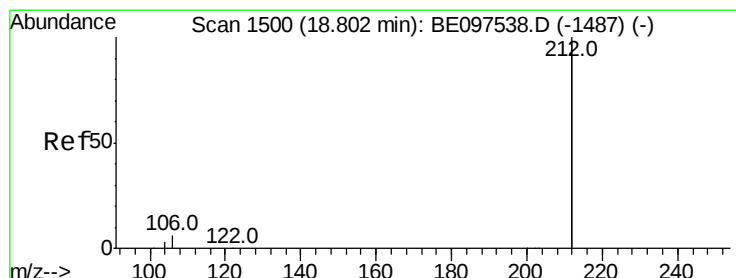
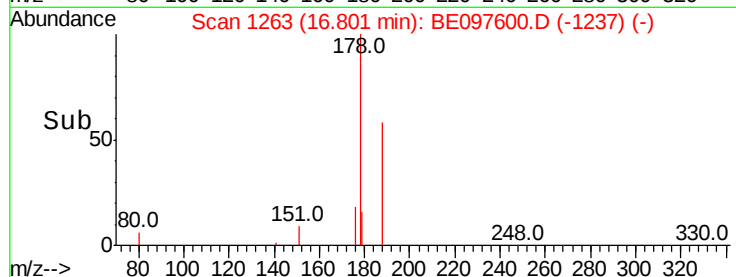
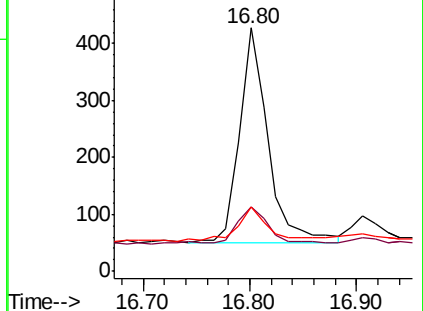
179 18.7 11.8 17.6#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#25

Fluoranthene-d10

Concen: 0.397 ng

RT: 18.80 min Scan# 1499

Delta R.T. -0.01 min

Lab File: BE097600.D

Acq: 21 Sep 2018 8:02

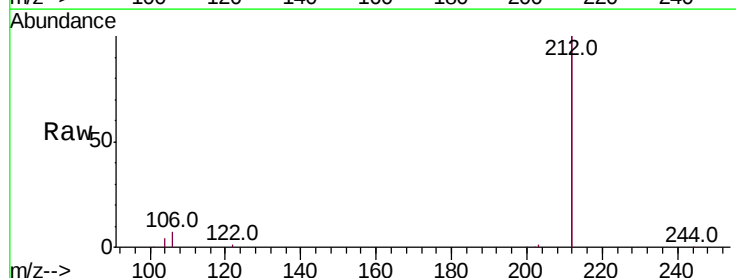
Tgt Ion:212 Resp: 36306

Ion Ratio Lower Upper

212 100

106 3.2 2.8 4.2

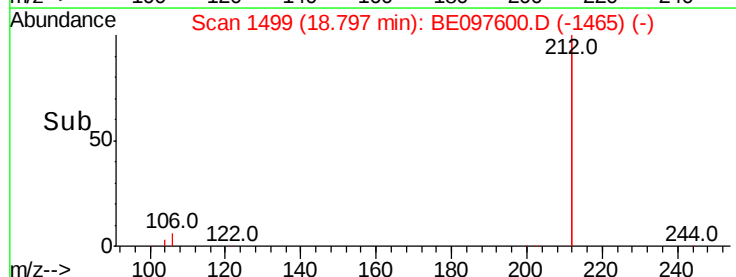
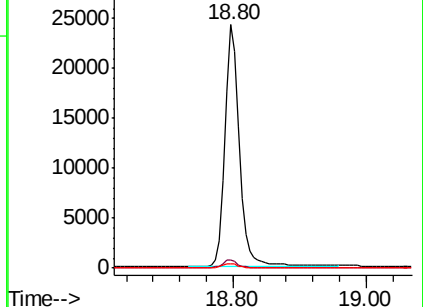
104 1.7 1.6 2.4

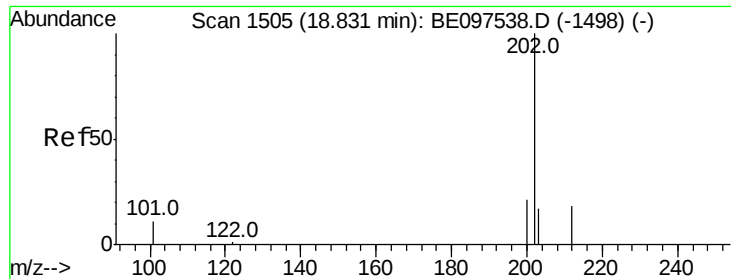


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

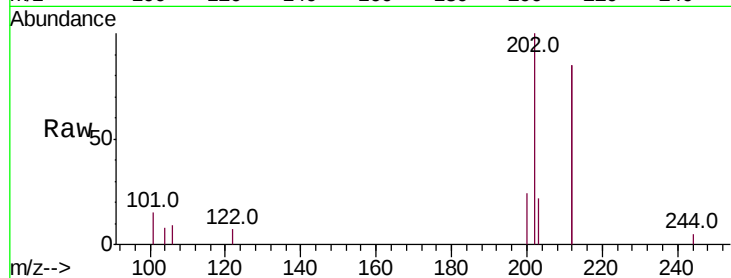




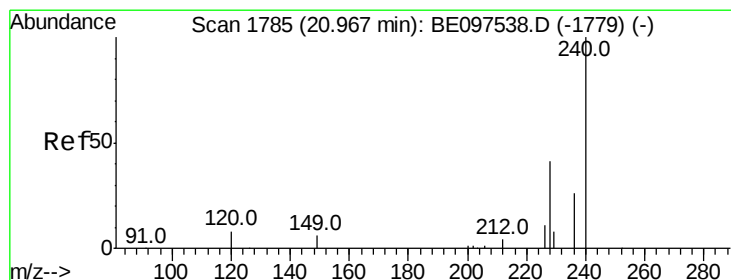
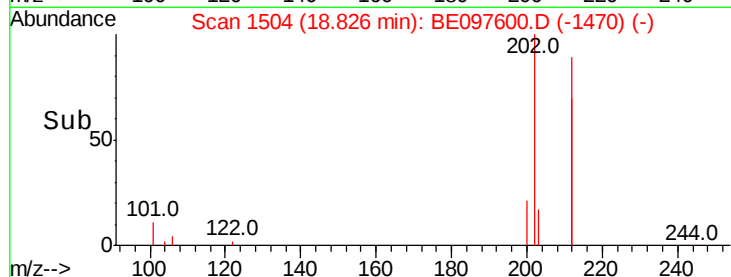
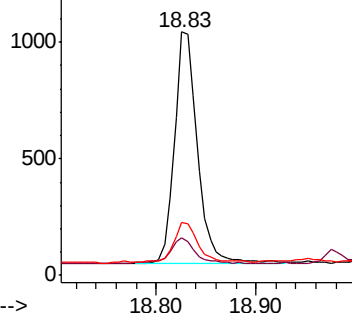
#26
Fluoranthene
Concen: 0.067 ng
RT: 18.83 min Scan# 1504
Delta R.T. -0.01 min
Lab File: BE097600.D
Acq: 21 Sep 2018 8:02

Instrument :
BNA_E
ClientSampled :

Tot Ion:202 Resp: 1581
Ion Ratio Lower Upper
202 100
101 12.5 9.8 14.8
203 17.9 13.7 20.5

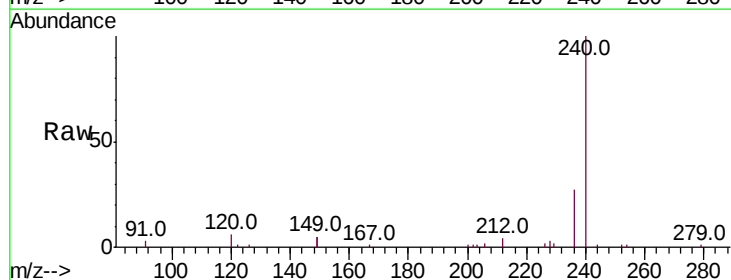


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

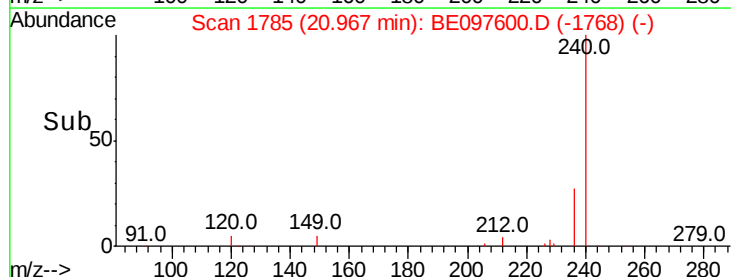
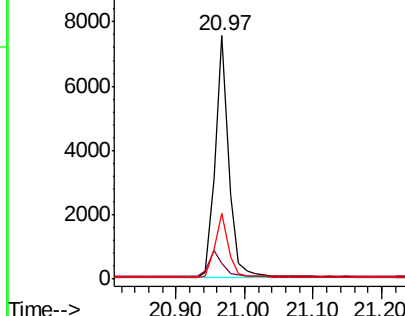


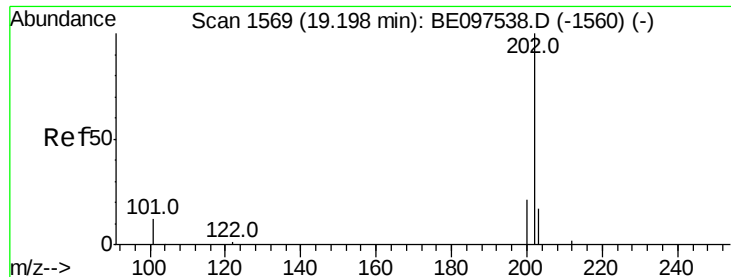
#27
Chrysene-d12
Concen: 0.400 ng
RT: 20.97 min Scan# 1785
Delta R.T. 0.00 min
Lab File: BE097600.D
Acq: 21 Sep 2018 8:02

Tgt Ion:240 Resp: 10398
Ion Ratio Lower Upper
240 100
120 6.4 5.5 8.3
236 27.2 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

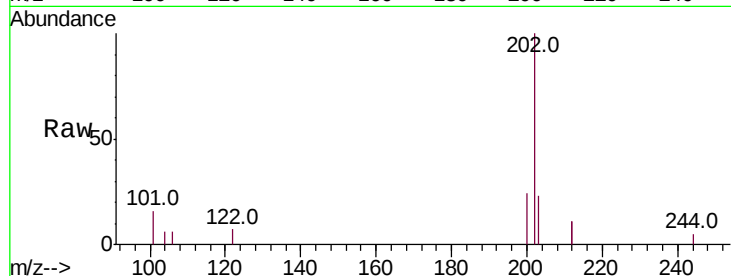




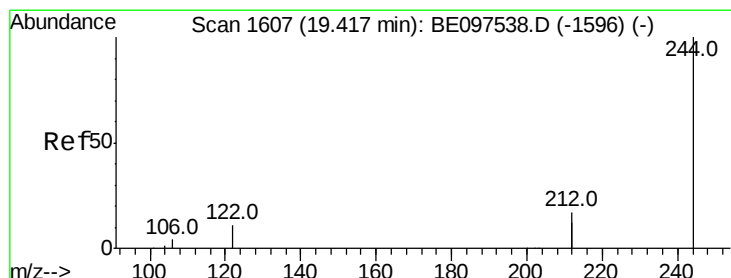
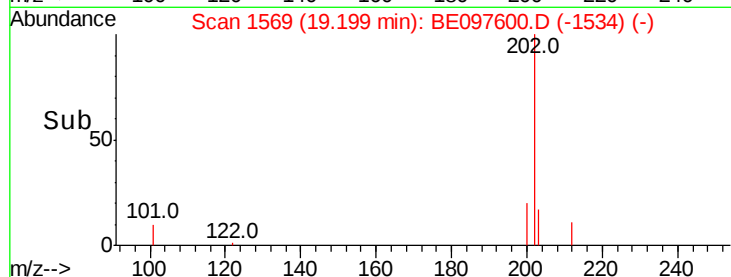
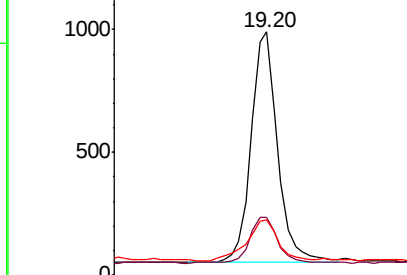
#28
Pvrene
Concen: 0.059 ng
RT: 19.20 min Scan# 1569
Delta R.T. -0.00 min
Lab File: BE097600.D
Acq: 21 Sep 2018 8:02

Instrument :
BNA_E
ClientSampled :

Tot Ion:202 Resp: 1408
Ion Ratio Lower Upper
202 100
200 21.4 16.6 25.0
203 21.0 13.8 20.8#

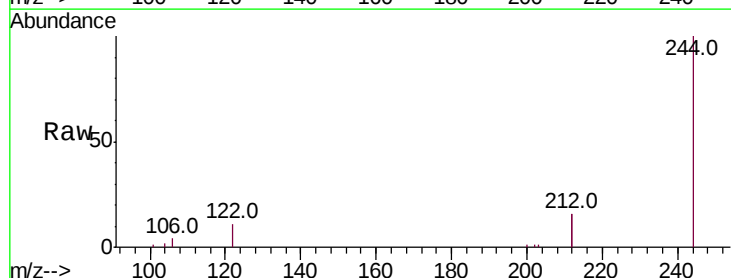


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

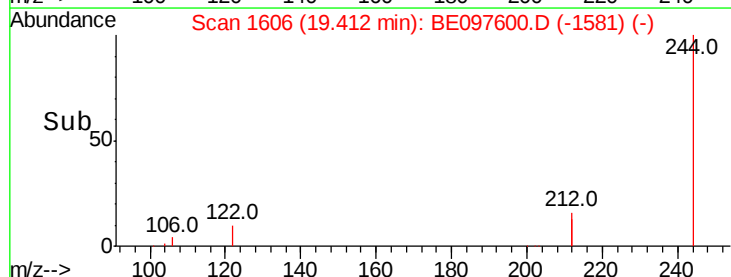
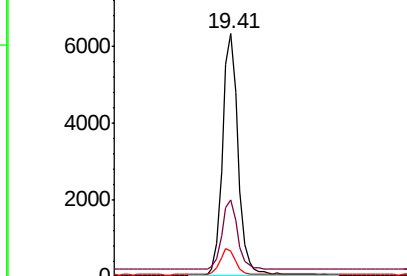


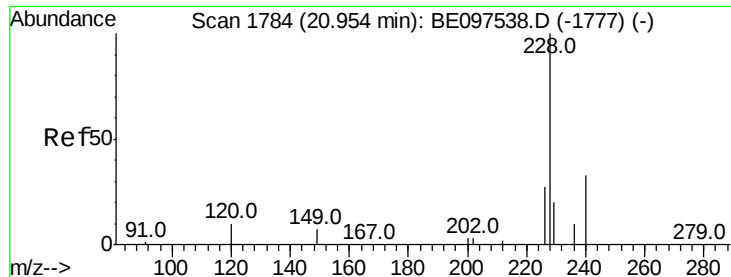
#29
Terphenyl-d14
Concen: 0.440 ng
RT: 19.41 min Scan# 1606
Delta R.T. -0.01 min
Lab File: BE097600.D
Acq: 21 Sep 2018 8:02

Tgt Ion:244 Resp: 8377
Ion Ratio Lower Upper
244 100
212 31.9 25.4 38.0
122 10.9 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: 0.025 ng

RT: 20.95 min Scan# 1784

Delta R.T. 0.00 min

Lab File: BE097600.D

Acq: 21 Sep 2018 8:02

Instrument :

BNA_E

ClientSampleId :

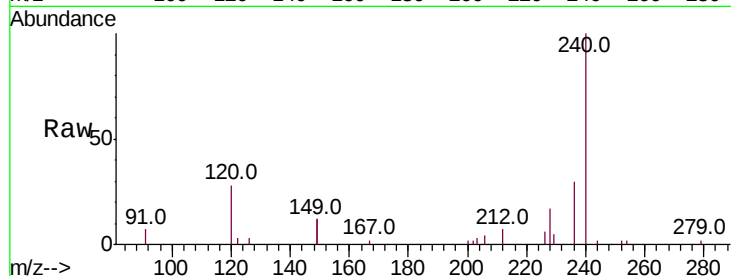
Tot Ion:228 Resp: 661

Ion Ratio Lower Upper

228 100

226 33.4 24.0 36.0

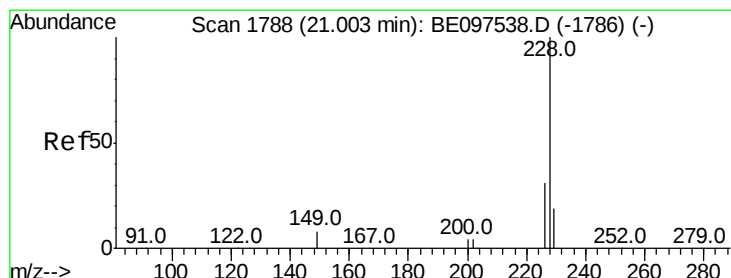
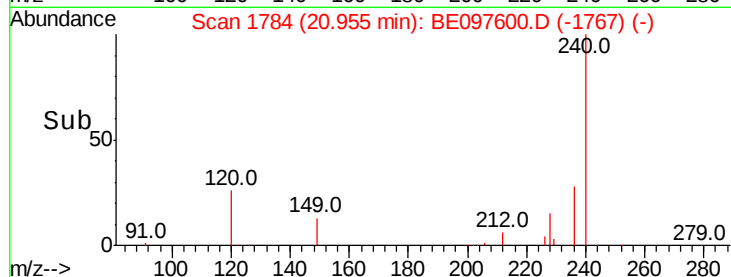
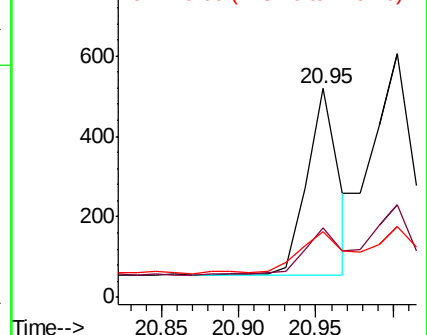
229 31.5 16.0 24.0#



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: 0.036 ng

RT: 21.00 min Scan# 1788

Delta R.T. 0.00 min

Lab File: BE097600.D

Acq: 21 Sep 2018 8:02

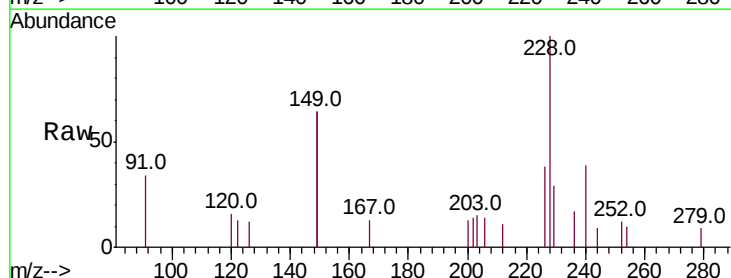
Tgt Ion:228 Resp: 1010

Ion Ratio Lower Upper

228 100

226 38.0 24.0 36.0#

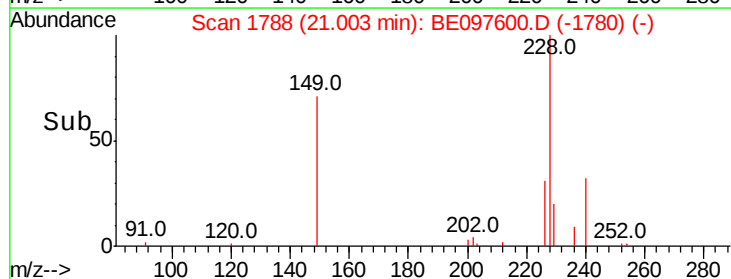
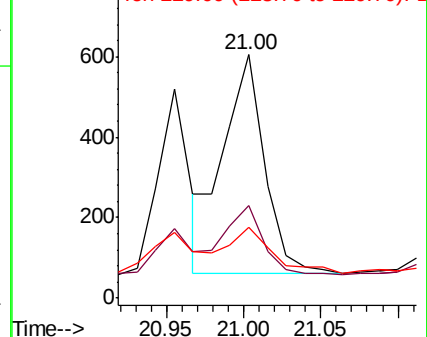
229 28.9 16.0 24.0#

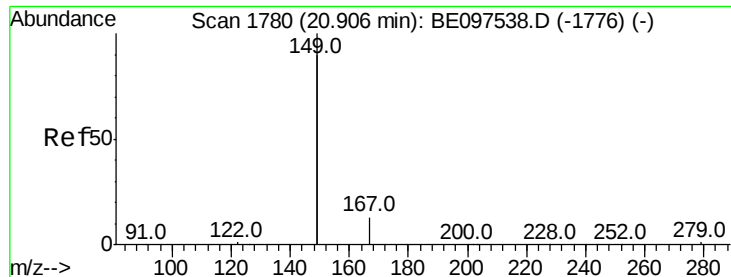


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.109 ng

RT: 20.89 min Scan# 1779

Delta R.T. -0.01 min

Lab File: BE097600.D

Acq: 21 Sep 2018 8:02

Instrument :

BNA_E

ClientSampleId :

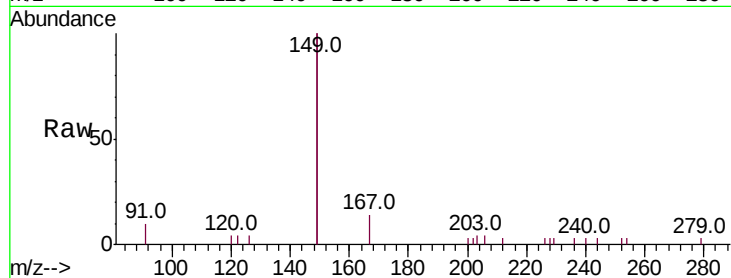
Tot Ion:149 Resp: 4352

Ion Ratio Lower Upper

149 100

167 6.9 5.4 8.0

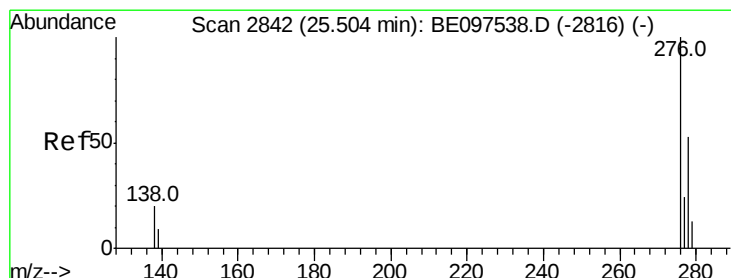
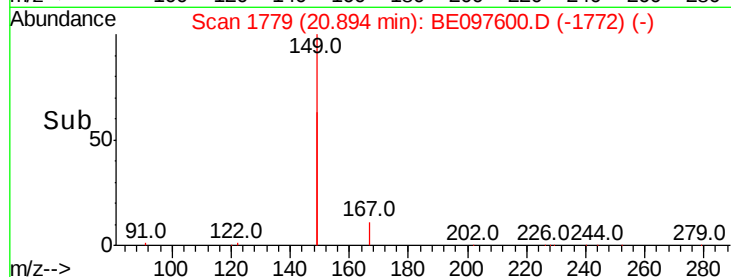
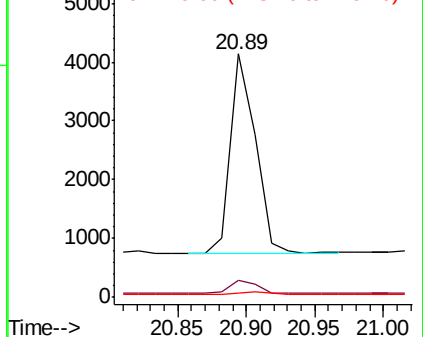
279 1.4 0.7 1.1#



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: 0.020 ng

RT: 25.51 min Scan# 2843

Delta R.T. 0.01 min

Lab File: BE097600.D

Acq: 21 Sep 2018 8:02

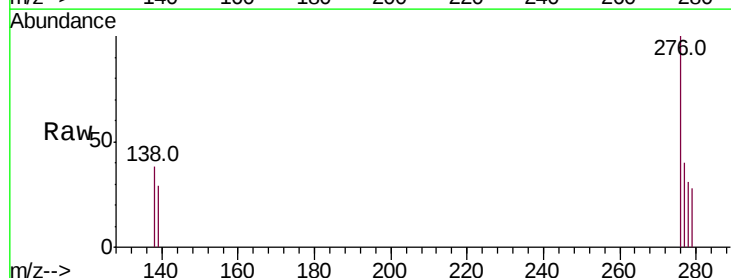
Tgt Ion:276 Resp: 681

Ion Ratio Lower Upper

276 100

138 20.7 22.5 33.7#

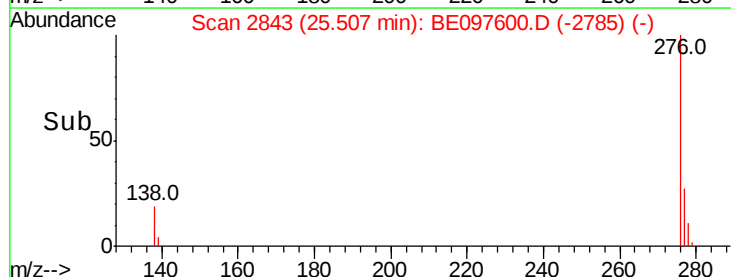
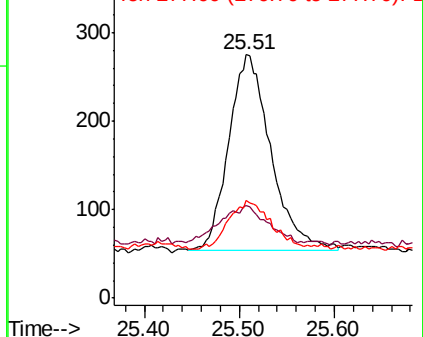
277 24.4 19.9 29.9

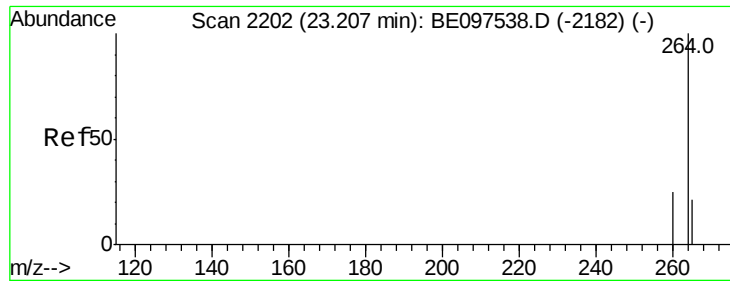


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

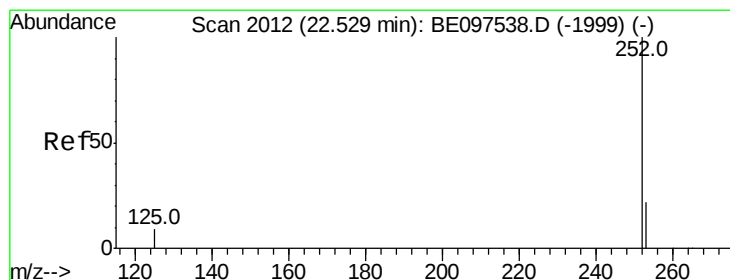
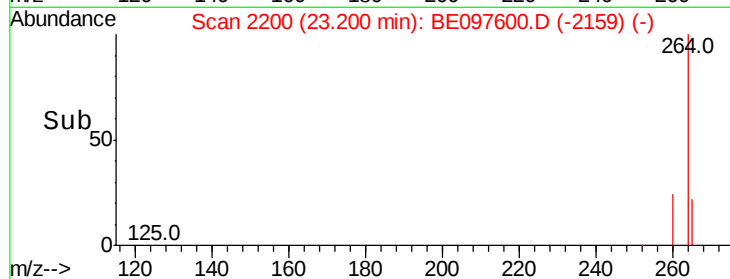
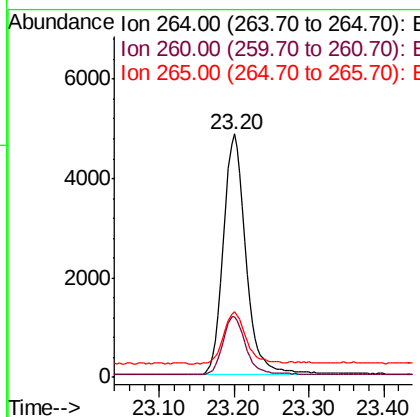
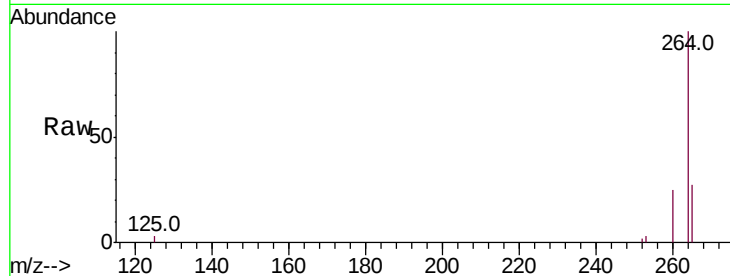




#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.20 min Scan# 2200
 Delta R.T. -0.00 min
 Lab File: BE097600.D
 Acq: 21 Sep 2018 8:02

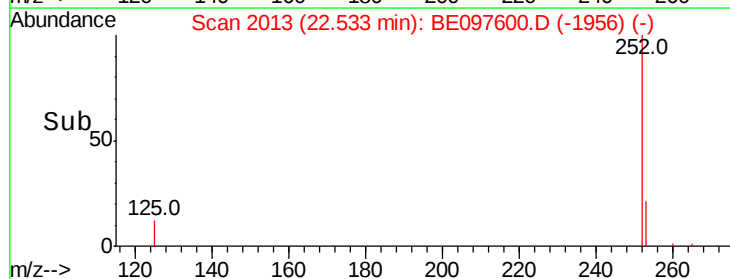
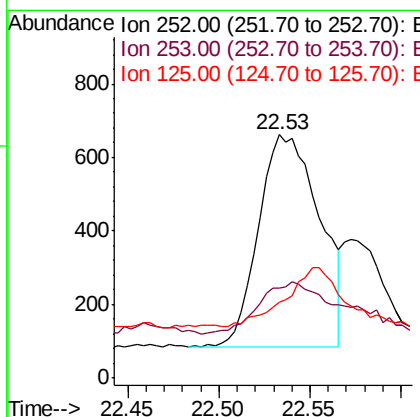
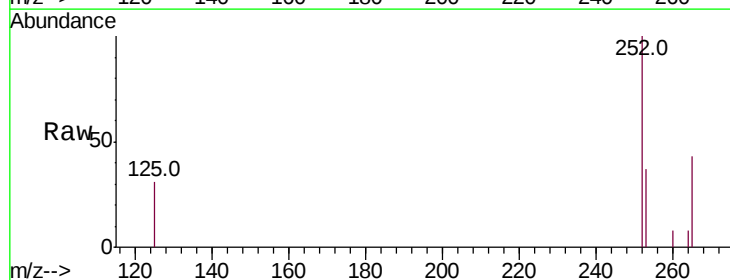
Instrument :
 BNA_E
 ClientSampleId :

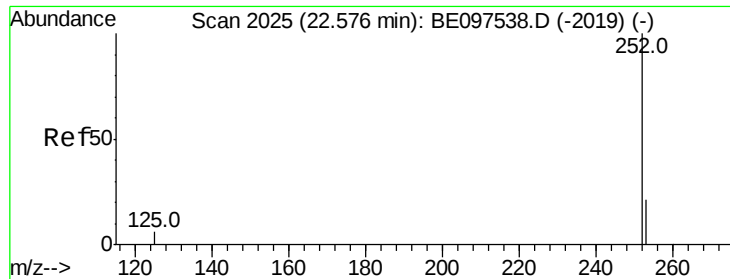
Tot Ion:264 Resp: 10104
 Ion Ratio Lower Upper
 264 100
 260 24.9 20.5 30.7
 265 27.1 22.8 34.2



#35
 Benzo(b)fluoranthene
 Concen: 0.052 ng
 RT: 22.53 min Scan# 2013
 Delta R.T. 0.00 min
 Lab File: BE097600.D
 Acq: 21 Sep 2018 8:02

Tgt Ion:252 Resp: 1354
 Ion Ratio Lower Upper
 252 100
 253 36.7 20.0 30.0#
 125 31.1 16.0 24.0#

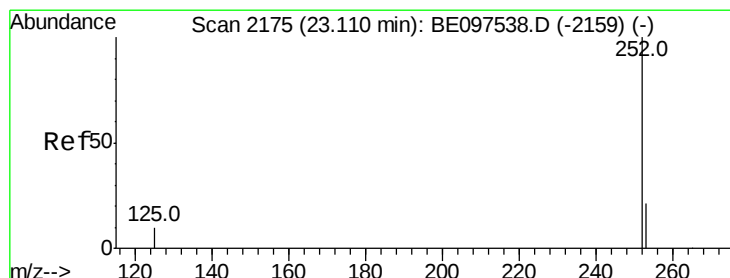
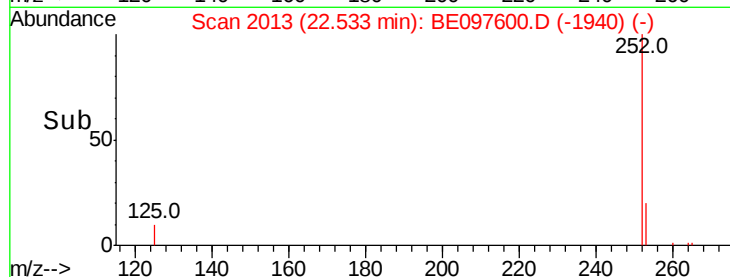
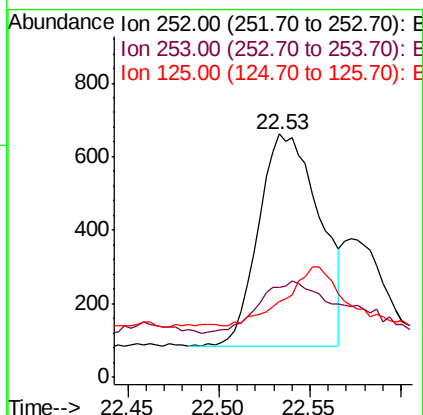
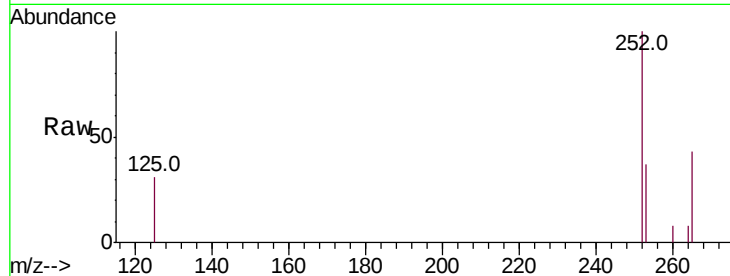




#36
Benzo(k)fluoranthene
Concen: 0.046 ng
RT: 22.53 min Scan# 2013
Delta R.T. -0.04 min
Lab File: BE097600.D
Acq: 21 Sep 2018 8:02

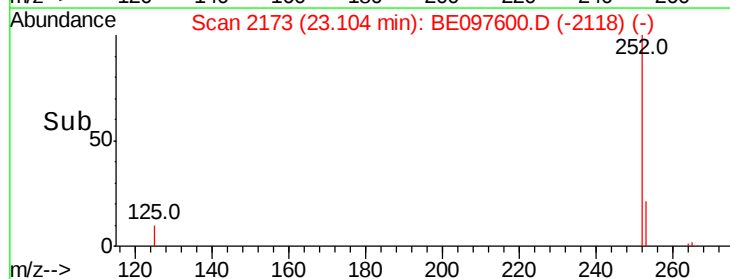
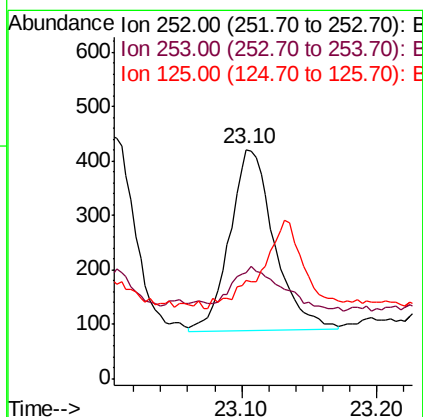
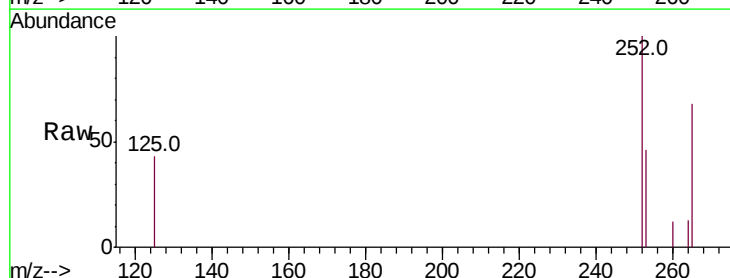
Instrument :
BNA_E
ClientSampleId :

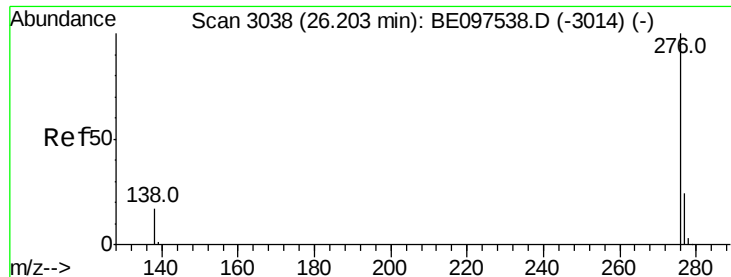
Tot Ion:252 Resp: 1354
Ion Ratio Lower Upper
252 100
253 36.7 16.0 24.0#
125 31.1 8.0 12.0#



#37
Benzo(a)pyrene
Concen: 0.049 ng
RT: 23.10 min Scan# 2173
Delta R.T. -0.00 min
Lab File: BE097600.D
Acq: 21 Sep 2018 8:02

Tgt Ion:252 Resp: 760
Ion Ratio Lower Upper
252 100
253 46.4 16.0 24.0#
125 42.6 12.0 18.0#





#39

Benzo(a,h,i)perylene

Concen: 0.028 ng

RT: 26.21 min Scan# 3041

Delta R.T. 0.02 min

Lab File: BE097600.D

Acq: 21 Sep 2018 8:02

Instrument :

BNA_E

ClientSampleId :

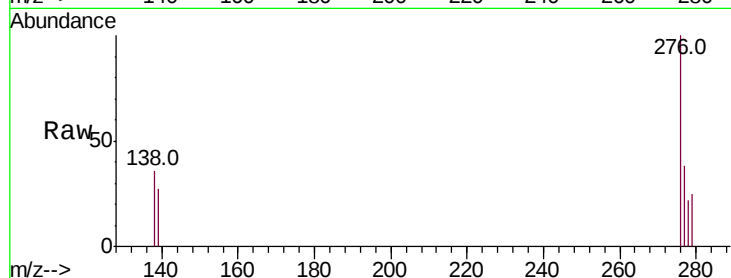
Tot Ion: 276 Resp: 727

Ion Ratio Lower Upper

276 100

277 37.9 16.0 24.0#

138 36.4 20.0 30.0#



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

