

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080317\
 Data File : BE093652.D
 Acq On : 3 Aug 2017 11:05
 Operator : SJ/JU
 Sample : I4425-06
 Misc : I4426-07
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Aug 04 04:12:05 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE080117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 02 10:58:31 2017
 Response via : Initial Calibration

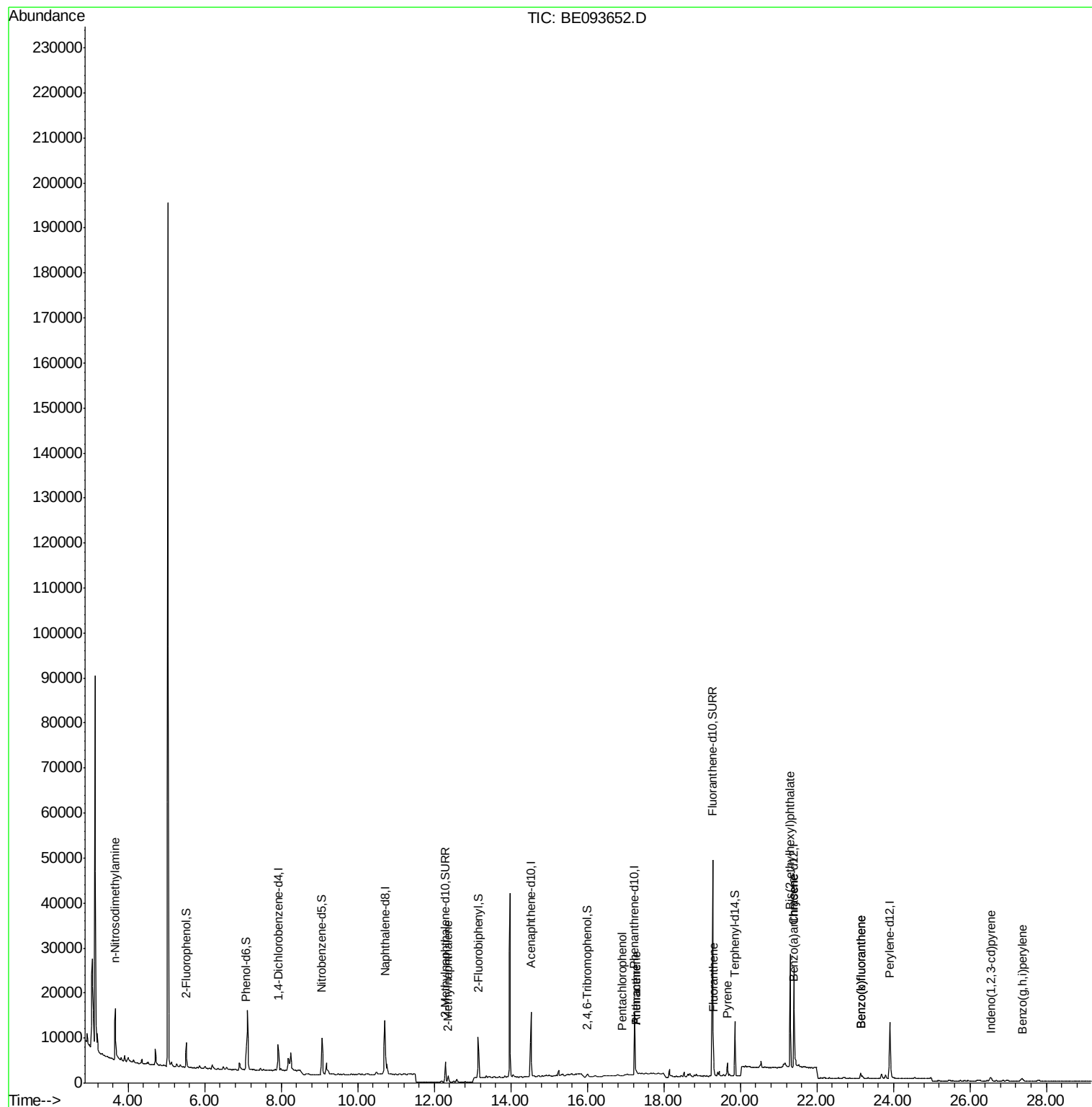
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.92	152	2828	0.40	ng	-0.01
7) Naphthalene-d8	10.71	136	14113	0.40	ng	0.00
13) Acenaphthene-d10	14.52	164	8415	0.40	ng	0.00
19) Phenanthrene-d10	17.24	188	22081	0.40	ng	0.00
27) Chrysene-d12	21.40	240	21788	0.40	ng	-0.01
34) Perylene-d12	23.91	264	19330	0.40	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.51	112	2845	0.34	ng	0.00
5) Phenol-d6	7.09	99	4526	0.36	ng	-0.01
8) Nitrobenzene-d5	9.06	82	3414	0.32	ng	0.00
11) 2-Methylnaphthalene-d10	12.29	152	6136	0.28	ng	0.00
14) 2,4,6-Tribromophenol	16.00	330	612	0.35	ng	0.00
15) 2-Fluorobiphenyl	13.15	172	8798	0.26	ng	-0.02
25) Fluoranthene-d10	19.27	212	64676	0.26	ng	0.00
29) Terphenyl-d14	19.86	244	9969	0.25	ng	0.00
Target Compounds						
3) n-Nitrosodimethylamine	3.66	42	2418	0.563	ng	Qvalue # 1
12) 2-Methylnaphthalene	12.36	142	954	0.035	ng	# 96
20) 4-Bromophenyl-phenylether	16.42	248	20	Below Cal		# 1
21) Hexachlorobenzene	16.49	284	14	Below Cal		# 100
22) Pentachlorophenol	16.91	266	49	0.162	ng	# 55
23) Phenanthrene	17.27	178	1482	0.031	ng	# 87
24) Anthracene	17.27	178	1342	0.020	ng	# 92
26) Fluoranthene	19.30	202	2542	0.033	ng	# 96
28) Pyrene	19.66	202	2756	0.039	ng	# 82
30) Benzo(a)anthracene	21.39	228	1381	0.022	ng	# 78
32) Bis(2-ethylhexyl)phthalate	21.30	149	26605	0.305	ng	# 98
33) Indeno(1,2,3-cd)pyrene	26.55	276	1331	0.021	ng	# 98
35) Benzo(b)fluoranthene	23.14	252	1821	0.026	ng	# 38
36) Benzo(k)fluoranthene	23.14	252	1821	0.026	ng	# 41
39) Benzo(a,h,i)perylene	27.36	276	1338	0.022	ng	# 84

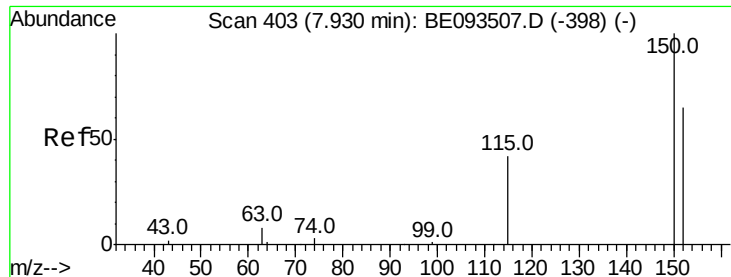
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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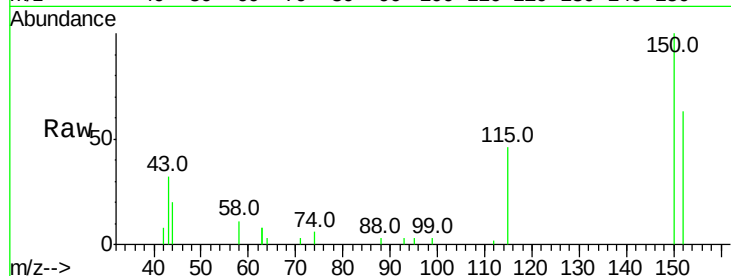


#1

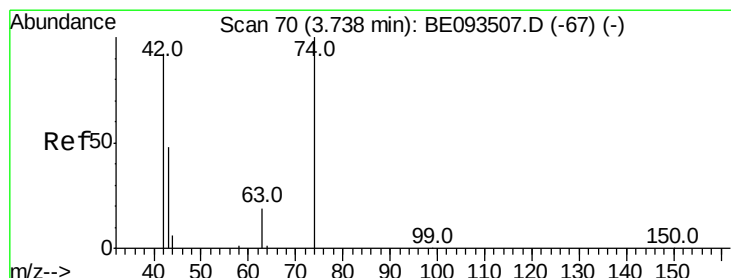
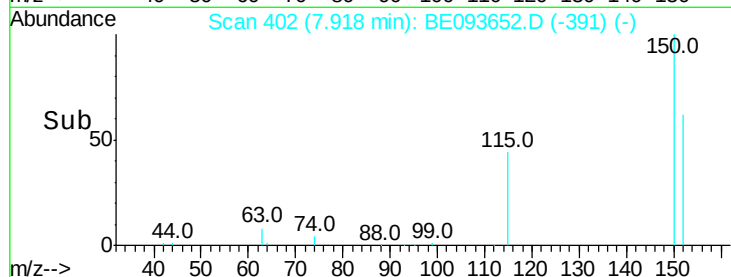
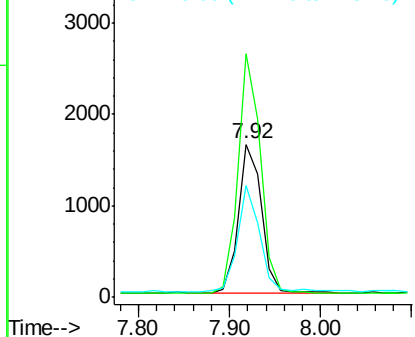
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.92 min Scan# 402
Delta R.T. -0.01 min
Lab File: BE093652.D
Acq: 3 Aug 2017 11:05

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 2828
Ion Ratio Lower Upper
152 100
150 158.9 125.1 187.7
115 73.1 55.7 83.5



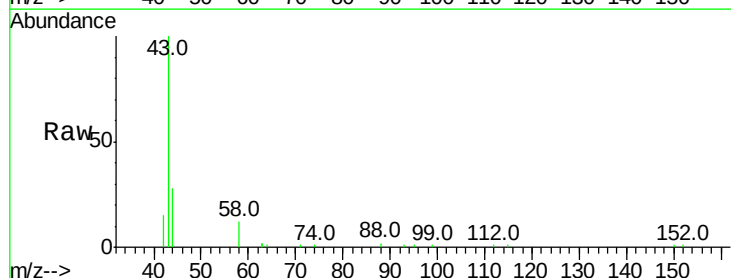
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



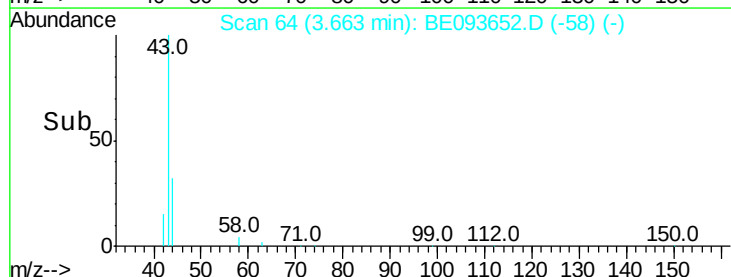
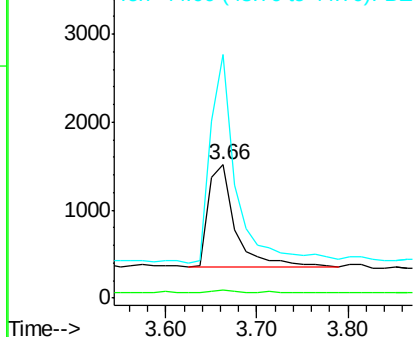
#3

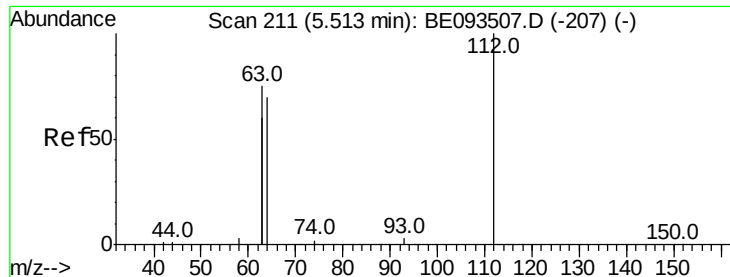
n-Nitrosodimethylamine
Concen: 0.563 ng
RT: 3.66 min Scan# 64
Delta R.T. -0.07 min
Lab File: BE093652.D
Acq: 3 Aug 2017 11:05

Tgt Ion: 42 Resp: 2418
Ion Ratio Lower Upper
42 100
74 1.7 99.1 148.7#
44 190.9 7.4 11.2#



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: 0.338 ng

RT: 5.51 min Scan# 211

Delta R.T. 0.00 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

Instrument :

BNA_E

ClientSampleId :

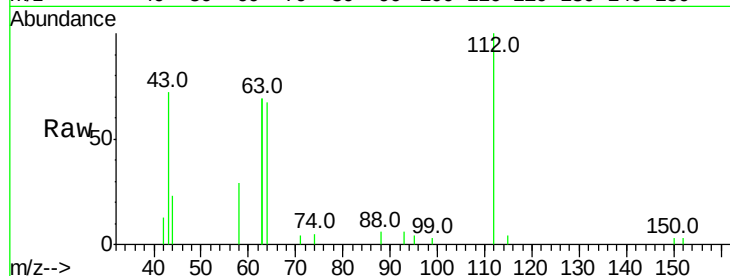
Tot Ion:112 Resp: 2845

Ion Ratio Lower Upper

112 100

64 71.0 56.4 84.6

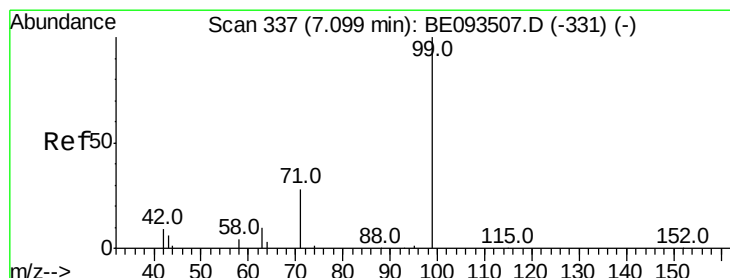
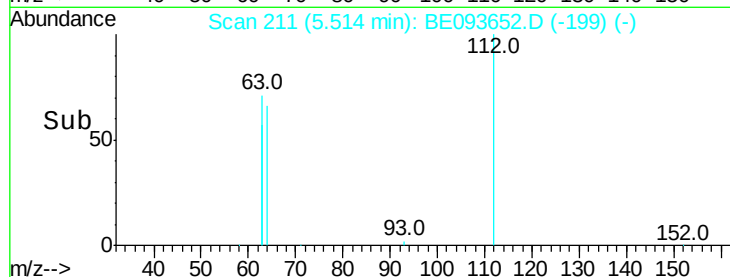
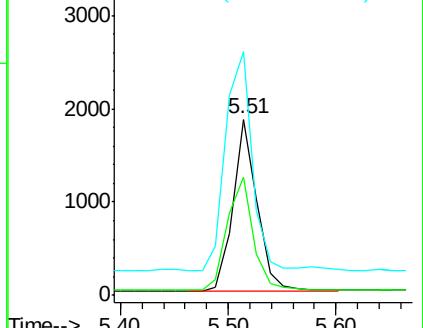
63 143.8 29.3 43.9#



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: 0.357 ng

RT: 7.09 min Scan# 336

Delta R.T. -0.01 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

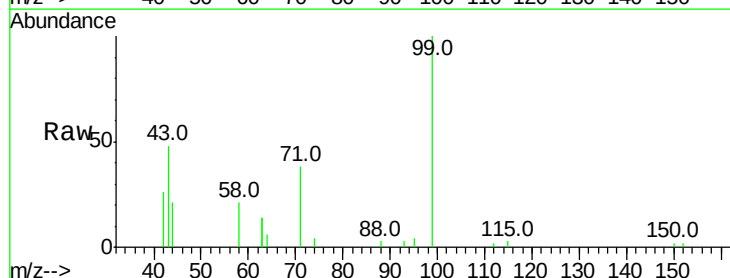
Tgt Ion: 99 Resp: 4526

Ion Ratio Lower Upper

99 100

42 30.6 0.0 0.0#

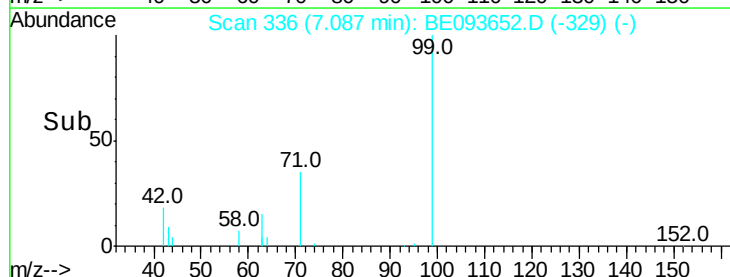
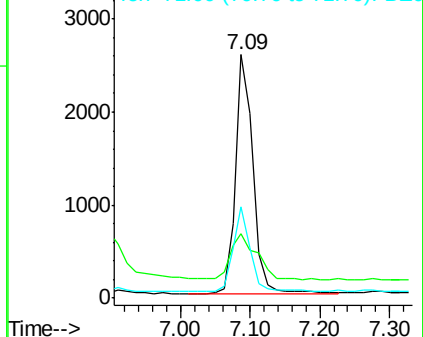
71 34.1 0.0 0.0#

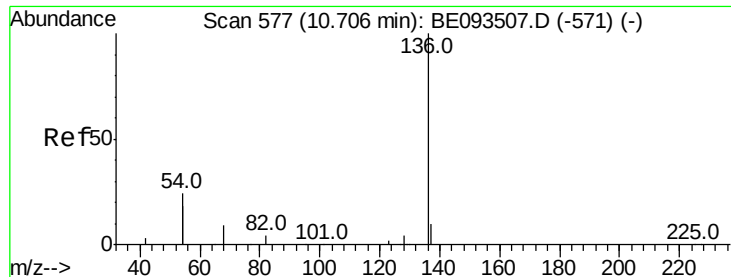


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.71 min Scan# 577

Delta R.T. -0.00 min

Lab File: BE093652.D

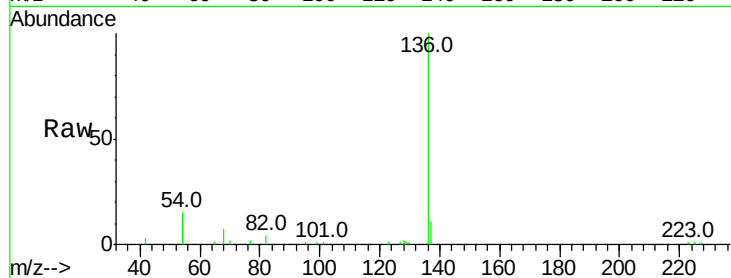
Acq: 3 Aug 2017 11:05

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136	Resp:	14113
Ion	Ratio	Lower Upper
136	100	
137	11.0	9.8 14.8
54	30.0	10.3 15.5#
68	6.5	9.0 13.4#



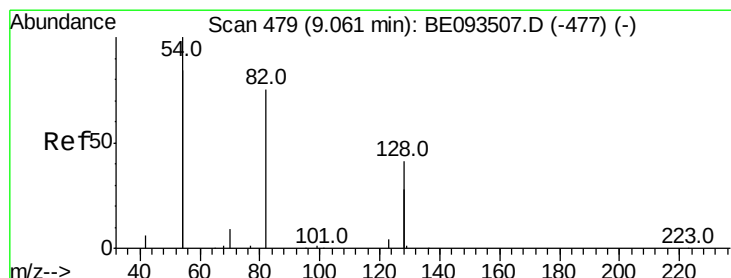
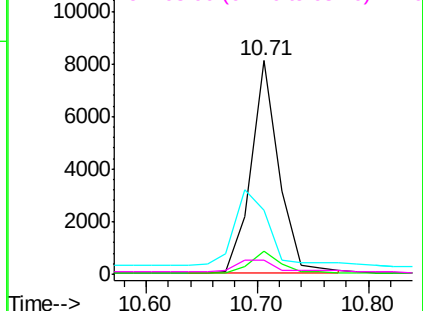
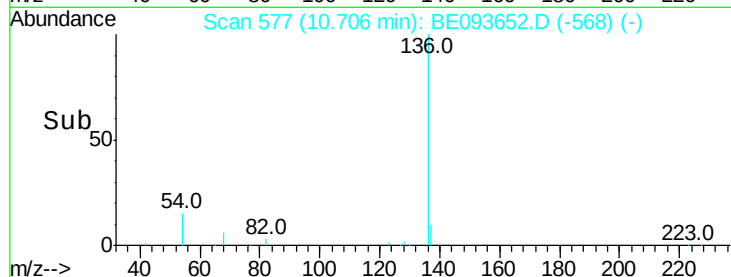
Abundance

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: 0.317 ng

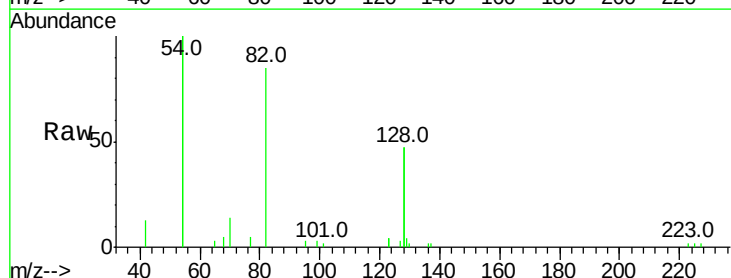
RT: 9.06 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

Tgt Ion: 82	Resp:	3414
Ion	Ratio	Lower Upper
82	100	
128	110.8	17.0 25.4#
54	235.7	53.8 80.6#

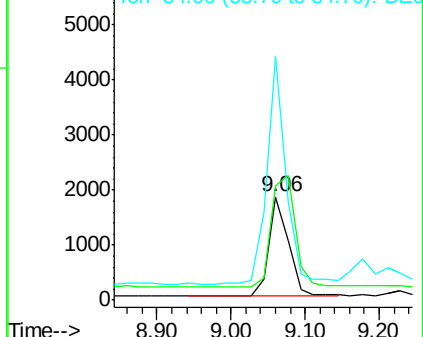
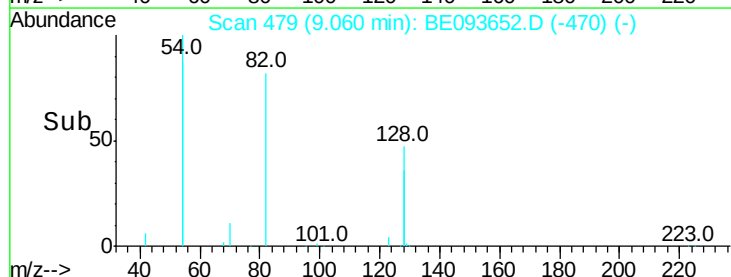


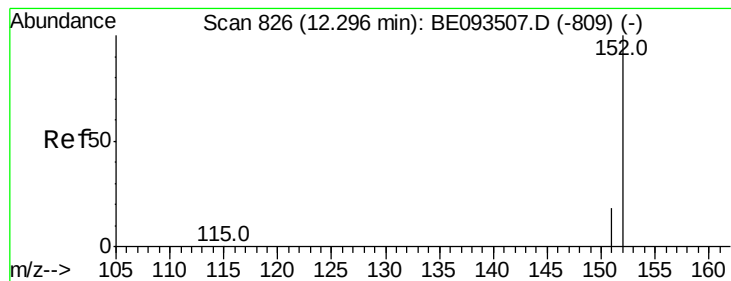
Abundance

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: 0.275 ng

RT: 12.29 min Scan# 824

Delta R.T. -0.01 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

Instrument :

BNA_E

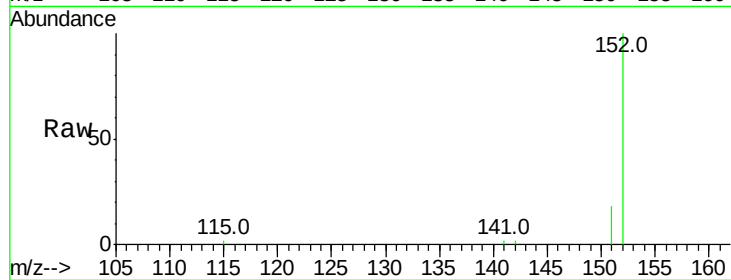
ClientSampleId :

Tot Ion:152 Resp: 6136

Ion Ratio Lower Upper

152 100

151 19.3 15.1 22.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.29

4000

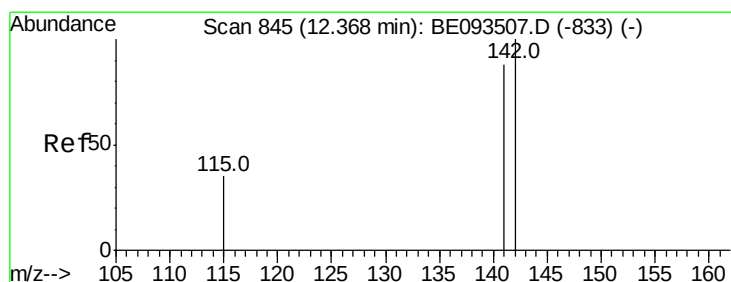
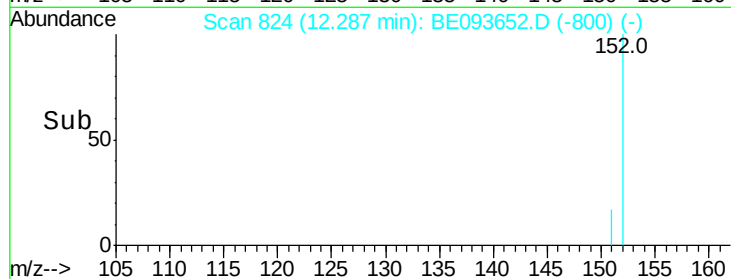
3000

2000

1000

0

Time--> 12.20 12.25 12.30 12.35



#12

2-Methylnaphthalene

Concen: 0.035 ng

RT: 12.36 min Scan# 843

Delta R.T. -0.01 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

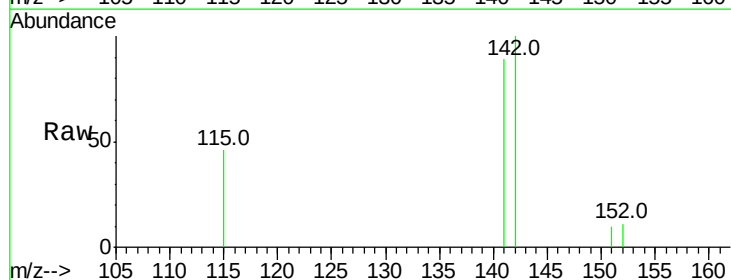
Tgt Ion:142 Resp: 954

Ion Ratio Lower Upper

142 100

141 88.8 72.6 108.8

115 45.7 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

12.36

800

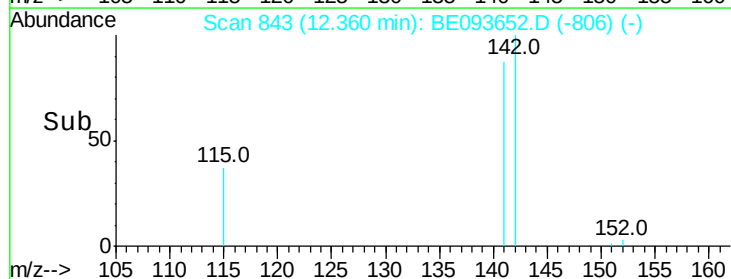
600

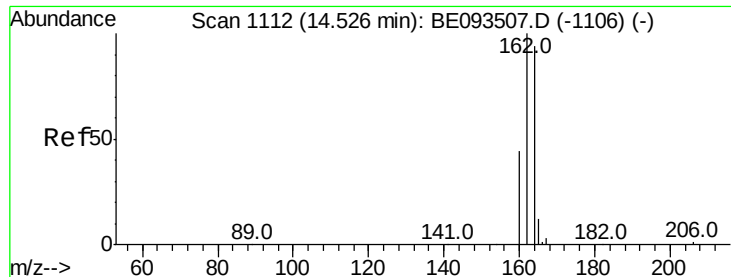
400

200

0

Time--> 12.30 12.40





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.52 min Scan# 1112

Delta R.T. -0.00 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

Instrument :

BNA_E

ClientSampleId :

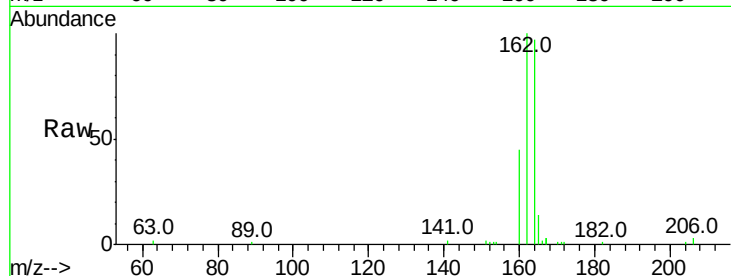
Tot Ion:164 Resp: 8415

Ion Ratio Lower Upper

164 100

162 102.9 84.6 127.0

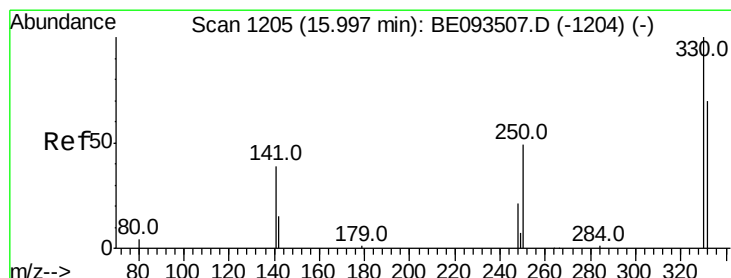
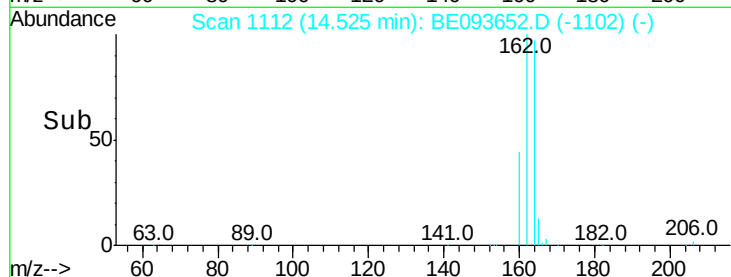
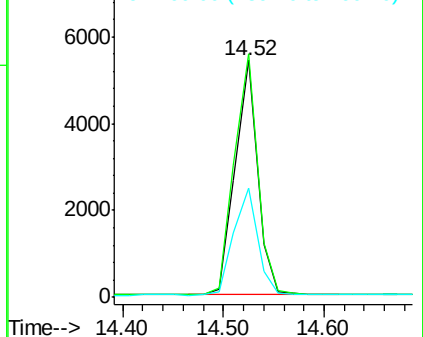
160 46.0 41.8 62.6



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: 0.350 ng

RT: 16.00 min Scan# 1205

Delta R.T. -0.00 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

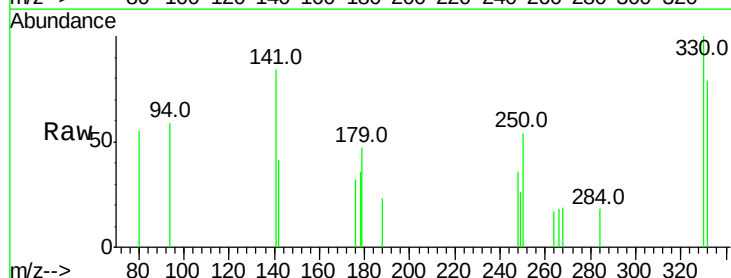
Tgt Ion:330 Resp: 612

Ion Ratio Lower Upper

330 100

332 87.6 77.7 116.5

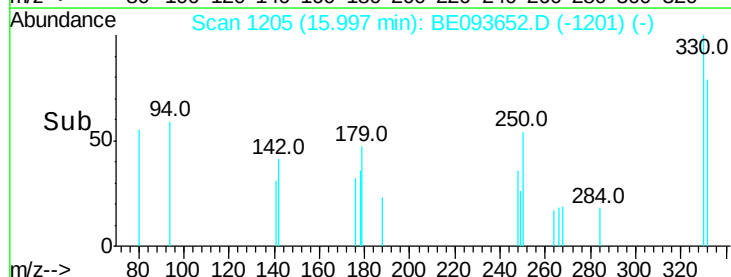
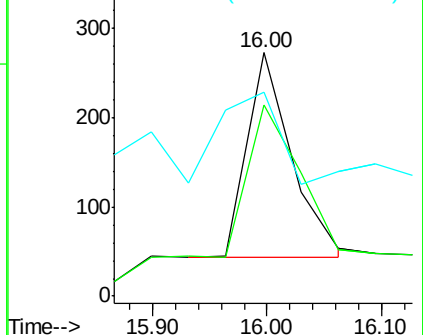
141 59.2 56.2 84.4

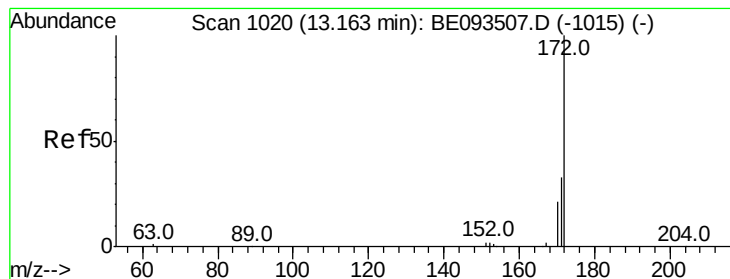


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.261 ng

RT: 13.15 min Scan# 1019

Delta R.T. -0.02 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

Instrument :

BNA_E

ClientSampleId :

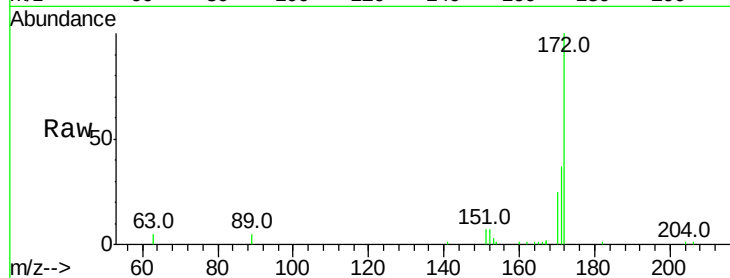
Tot Ion:172 Resp: 8798

Ion Ratio Lower Upper

172 100

171 37.2 29.8 44.6

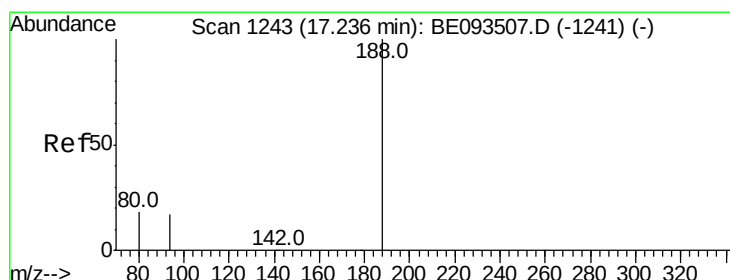
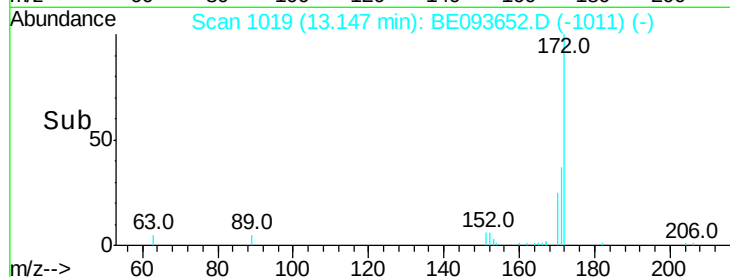
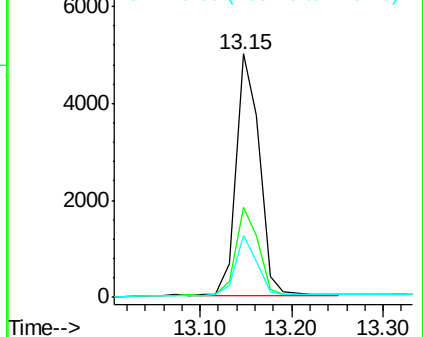
170 25.5 20.7 31.1



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: 17.24 min Scan# 1243

Delta R.T. -0.00 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

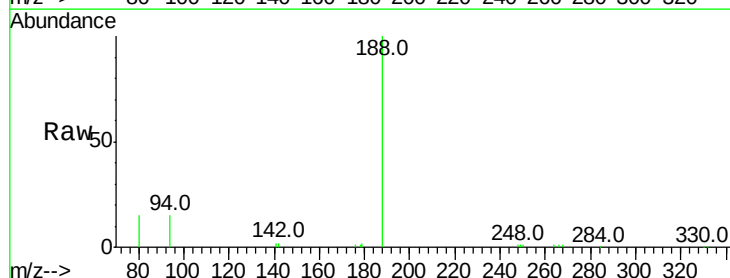
Tgt Ion:188 Resp: 22081

Ion Ratio Lower Upper

188 100

94 14.9 11.3 16.9

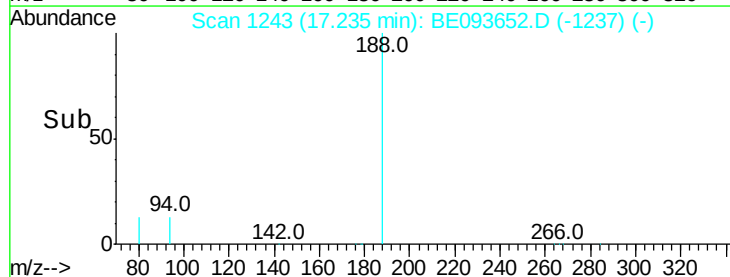
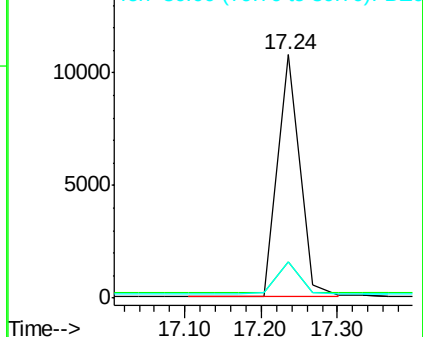
80 15.1 11.7 17.5

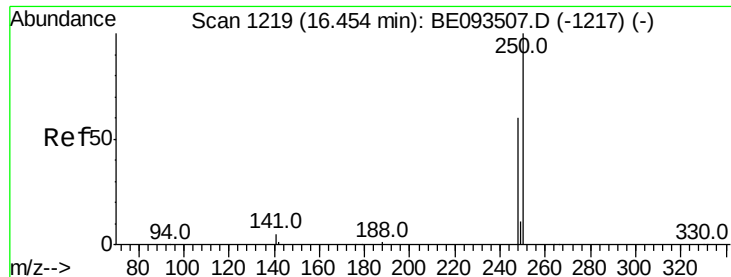


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

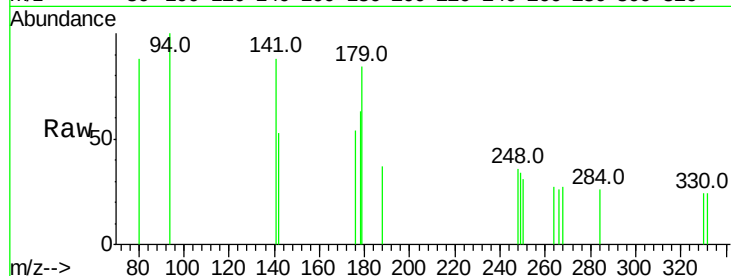




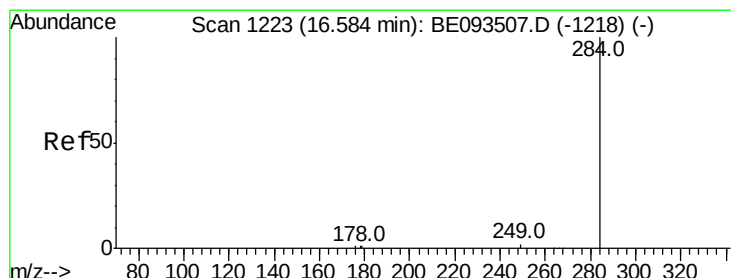
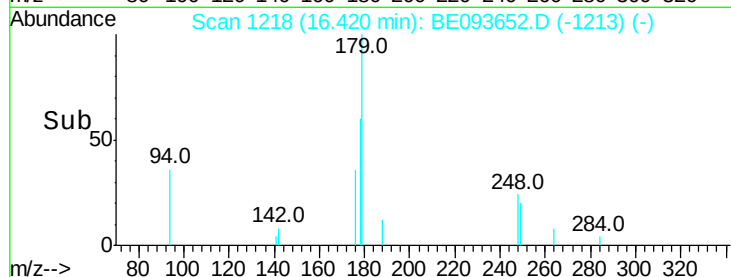
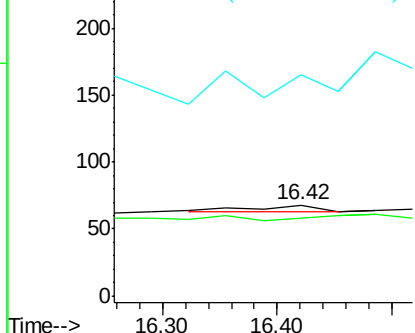
#20
4-Bromophenyl-phenylether
Concen: Below Cal
RT: 16.42 min Scan# 1218
Delta R.T. -0.03 min
Lab File: BE093652.D
Acq: 3 Aug 2017 11:05

Instrument :
BNA_E
ClientSampled :

Tot Ion:248 Resp: 20
Ion Ratio Lower Upper
248 100
250 85.3 128.0 192.0#
141 242.6 12.0 18.0#

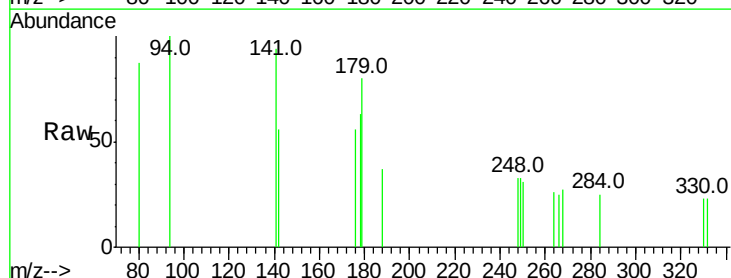


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

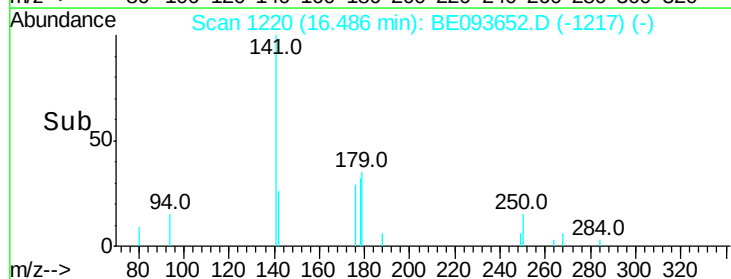
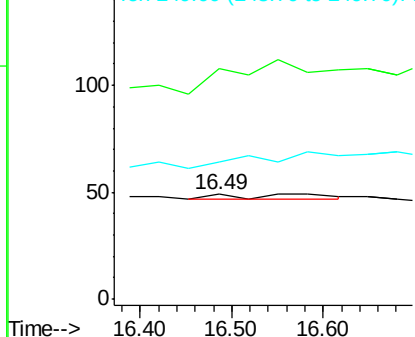


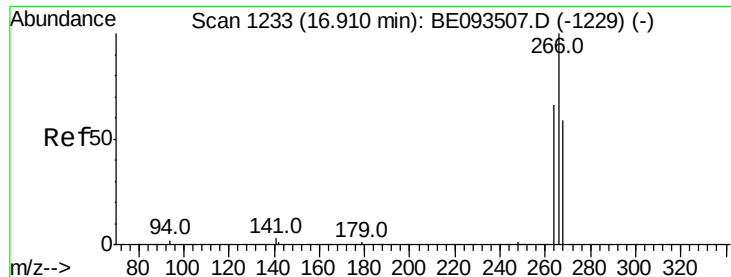
#21
Hexachlorobenzene
Concen: Below Cal
RT: 16.49 min Scan# 1220
Delta R.T. -0.10 min
Lab File: BE093652.D
Acq: 3 Aug 2017 11:05

Tgt Ion:284 Resp: 14
Ion Ratio Lower Upper
284 100
142 0.0 0.0 0.0
249 0.0 0.0 0.0



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: 0.162 ng

RT: 16.91 min Scan# 1233

Delta R.T. -0.00 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

Instrument :

BNA_E

ClientSampleId :

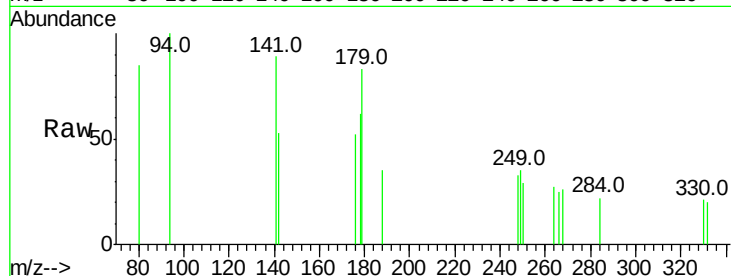
Tot Ion:266 Resp: 49

Ion Ratio Lower Upper

266 100

264 105.5 56.0 84.0#

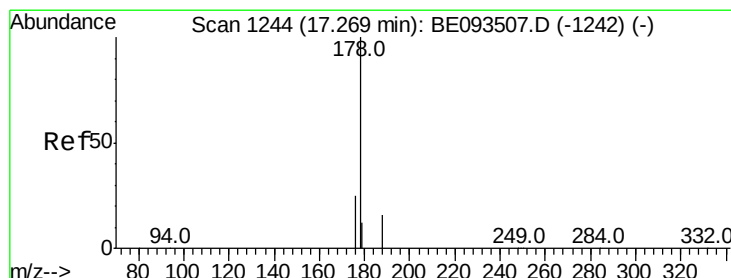
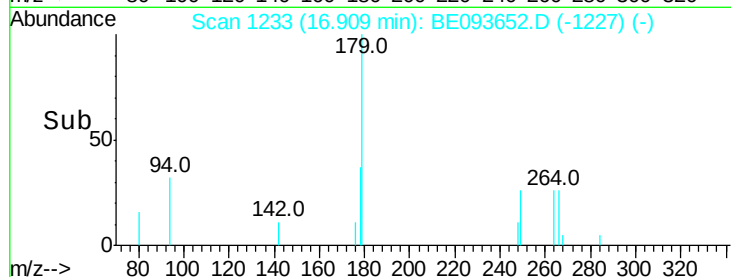
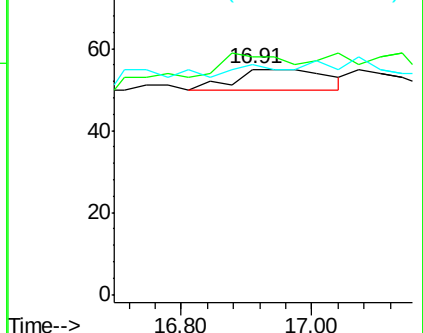
268 101.8 52.0 78.0#



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: 0.031 ng

RT: 17.27 min Scan# 1244

Delta R.T. -0.00 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

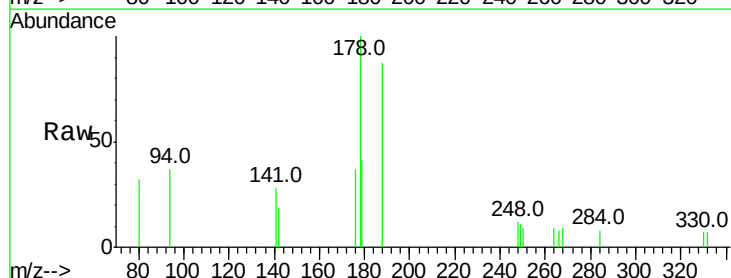
Tgt Ion:178 Resp: 1482

Ion Ratio Lower Upper

178 100

176 21.4 15.0 22.4

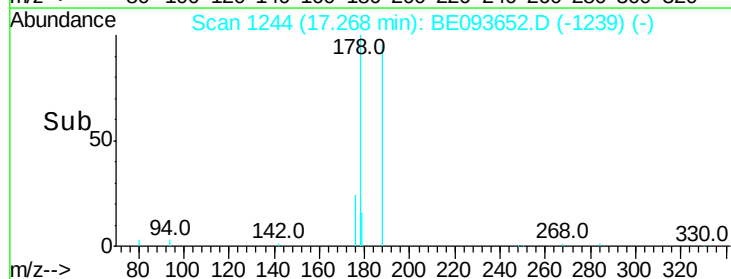
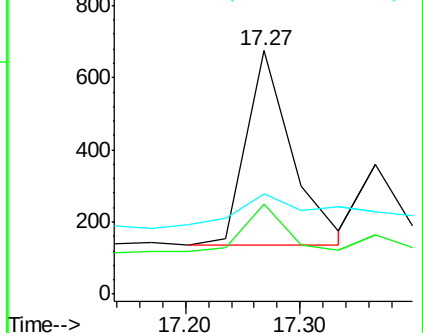
179 24.8 12.7 19.1#

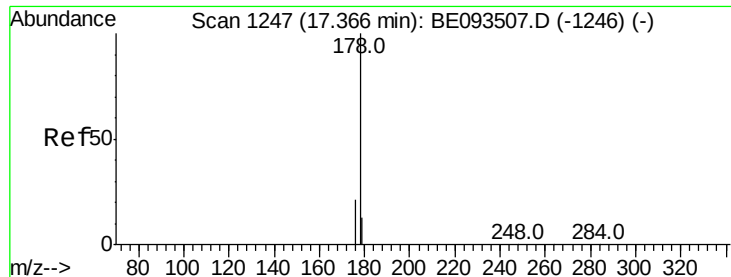


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.020 ng

RT: 17.27 min Scan# 1244

Delta R.T. -0.10 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

Instrument :

BNA_E

ClientSampleId :

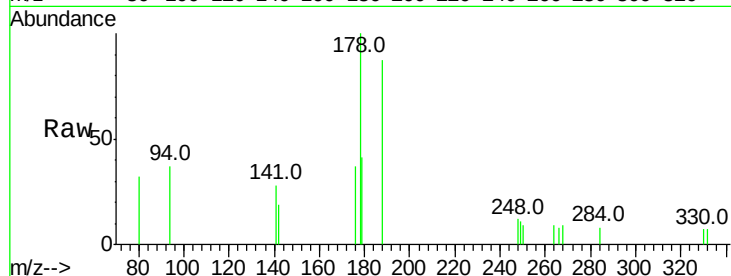
Tot Ion:178 Resp: 1342

Ion Ratio Lower Upper

178 100

176 20.4 14.6 22.0

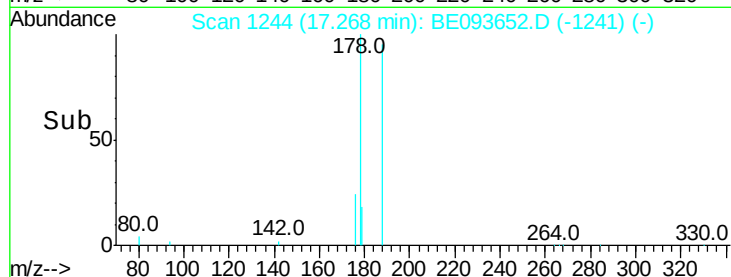
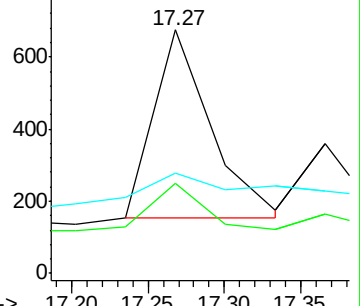
179 20.0 12.0 18.0#



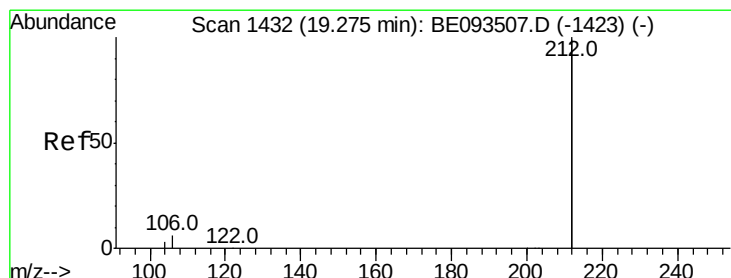
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#25

Fluoranthene-d10

Concen: 0.258 ng

RT: 19.27 min Scan# 1432

Delta R.T. -0.00 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

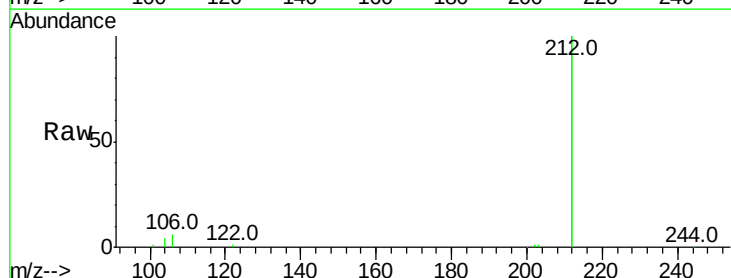
Tgt Ion:212 Resp: 64676

Ion Ratio Lower Upper

212 100

106 3.5 2.4 3.6

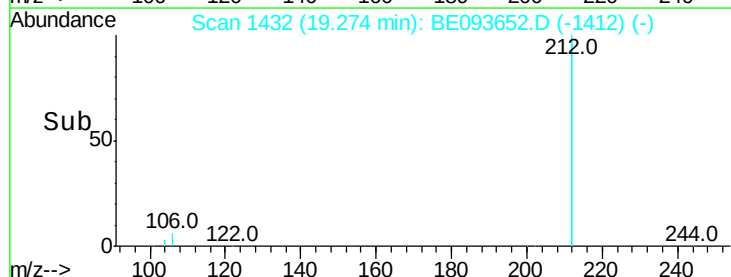
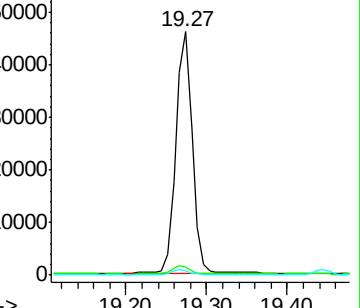
104 2.0 1.6 2.4



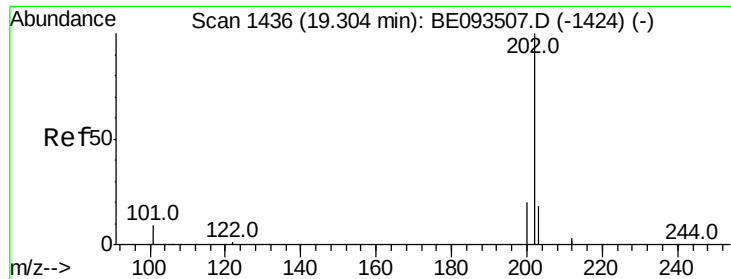
Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



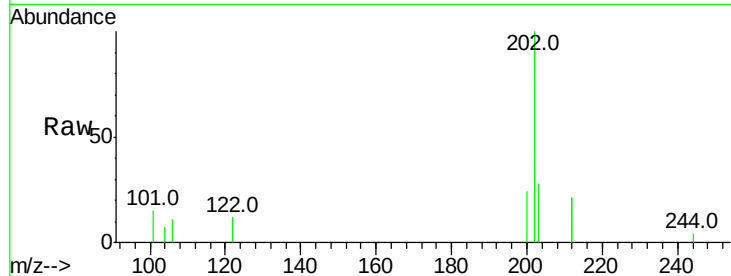
Time-->



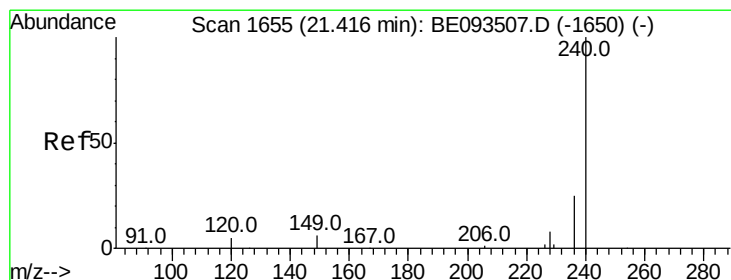
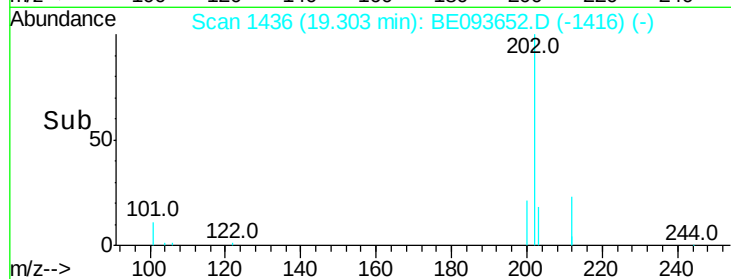
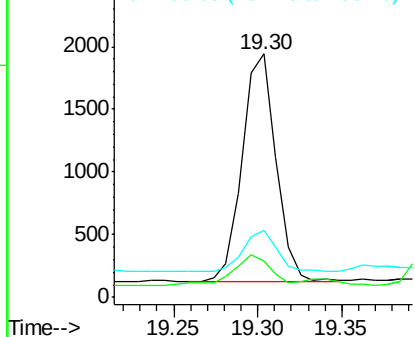
#26
 Fluoranthene
 Concen: 0.033 ng
 RT: 19.30 min Scan# 1436
 Delta R.T. -0.00 min
 Lab File: BE093652.D
 Acq: 3 Aug 2017 11:05

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:202 Resp: 2542
 Ion Ratio Lower Upper
 202 100
 101 15.6 9.6 14.4#
 203 18.3 14.4 21.6

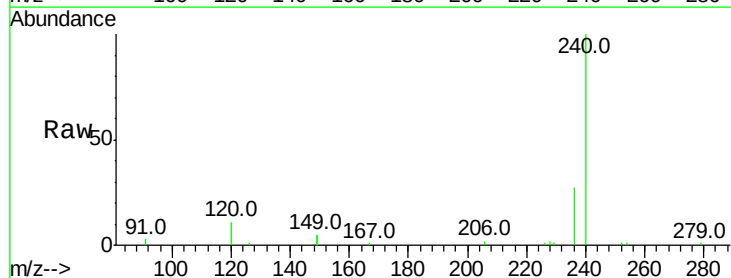


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

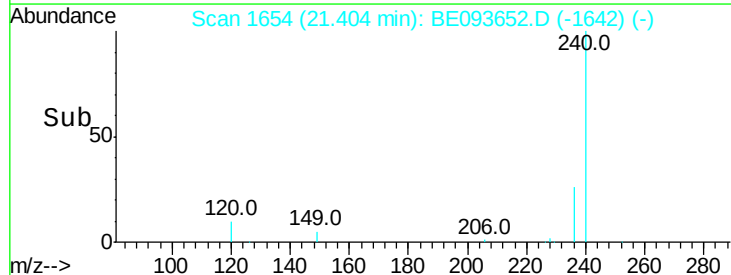
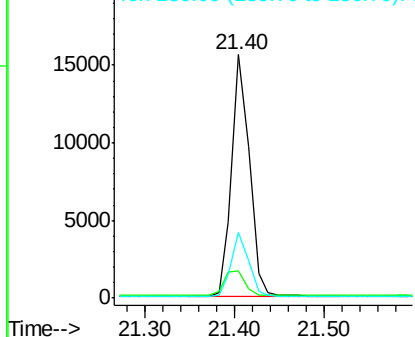


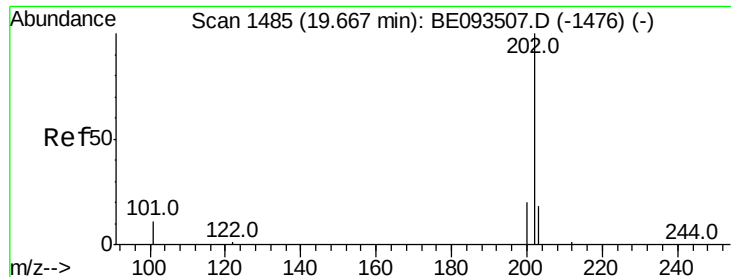
#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.40 min Scan# 1654
 Delta R.T. -0.01 min
 Lab File: BE093652.D
 Acq: 3 Aug 2017 11:05

Tgt Ion:240 Resp: 21788
 Ion Ratio Lower Upper
 240 100
 120 11.3 4.6 7.0#
 236 26.9 20.8 31.2



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

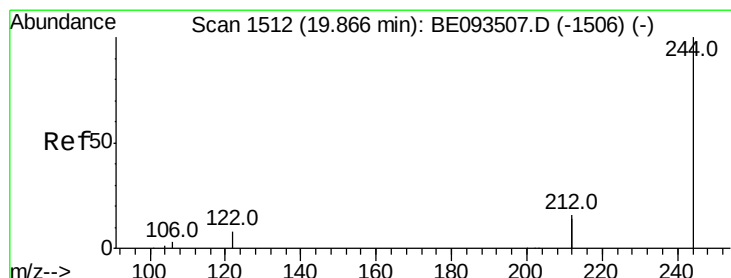
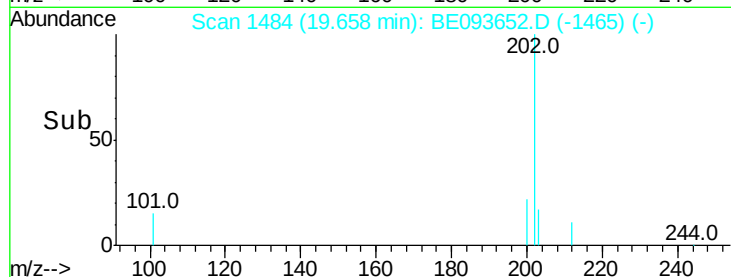
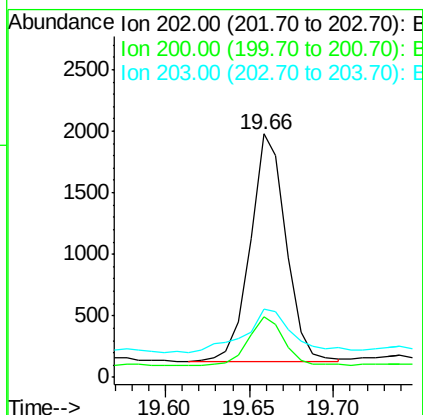
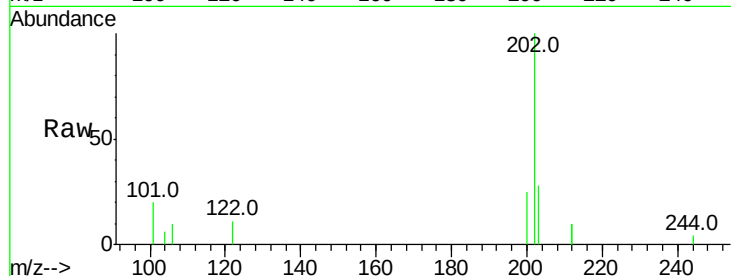




#28
 Pvrene
 Concen: 0.039 ng
 RT: 19.66 min Scan# 1484
 Delta R.T. -0.01 min
 Lab File: BE093652.D
 Acq: 3 Aug 2017 11:05

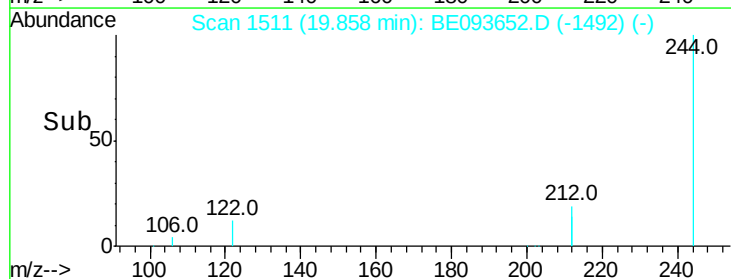
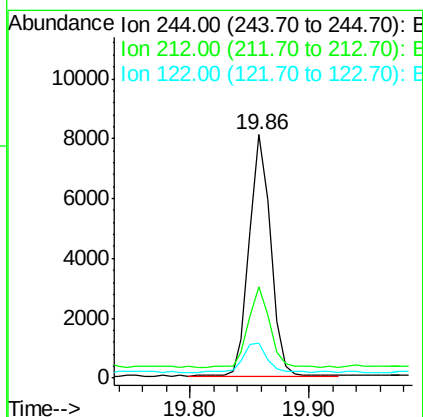
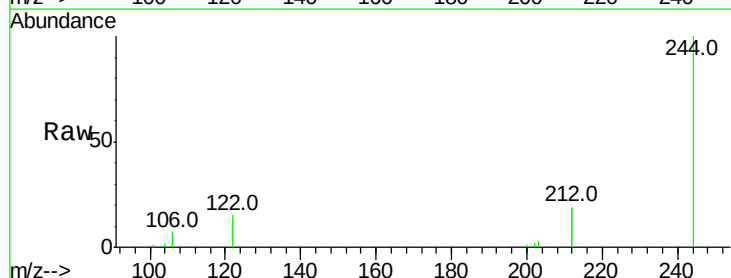
Instrument :
 BNA_E
 ClientSampleId :

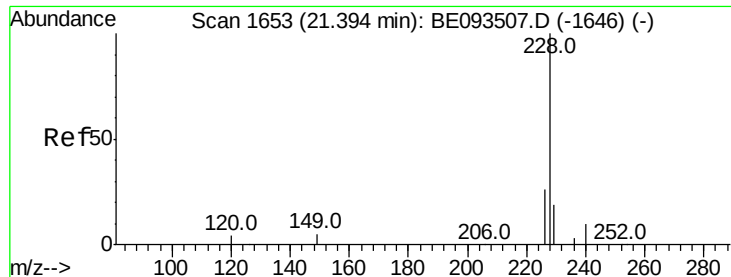
Tot Ion:202 Resp: 2756
 Ion Ratio Lower Upper
 202 100
 200 21.2 0.0 0.0#
 203 25.1 13.7 20.5#



#29
 Terphenyl-d14
 Concen: 0.255 ng
 RT: 19.86 min Scan# 1511
 Delta R.T. -0.01 min
 Lab File: BE093652.D
 Acq: 3 Aug 2017 11:05

Tgt Ion:244 Resp: 9969
 Ion Ratio Lower Upper
 244 100
 212 37.3 10.6 16.0#
 122 14.6 15.4 23.0#





#30

Benzo(a)anthracene

Concen: 0.022 ng

RT: 21.39 min Scan# 1653

Delta R.T. -0.00 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

Instrument :

BNA_E

ClientSampleId :

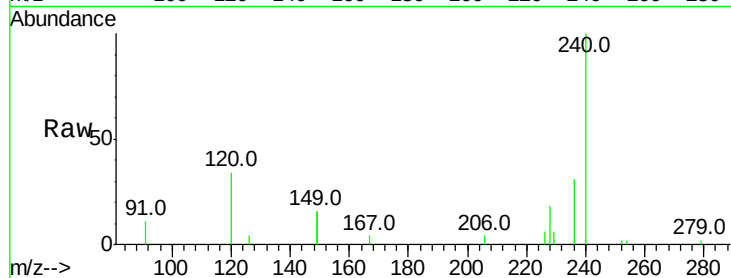
Tot Ion:228 Resp: 1381

Ion Ratio Lower Upper

228 100

226 34.6 19.7 29.5#

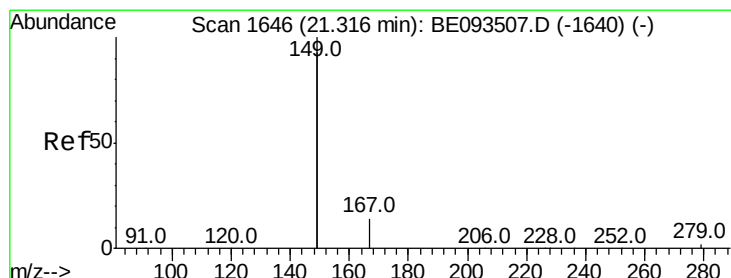
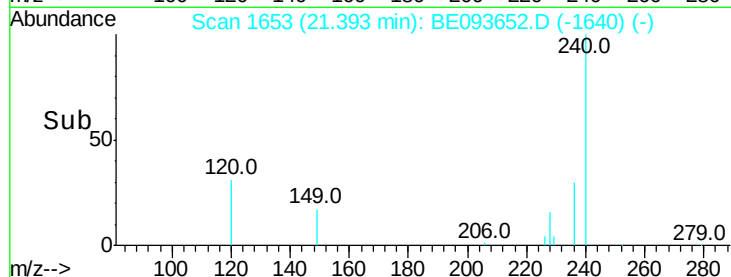
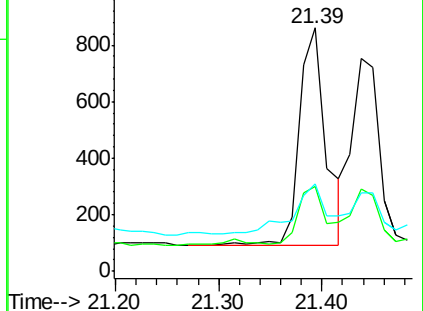
229 35.8 19.2 28.8#



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: 0.305 ng

RT: 21.30 min Scan# 1645

Delta R.T. -0.01 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

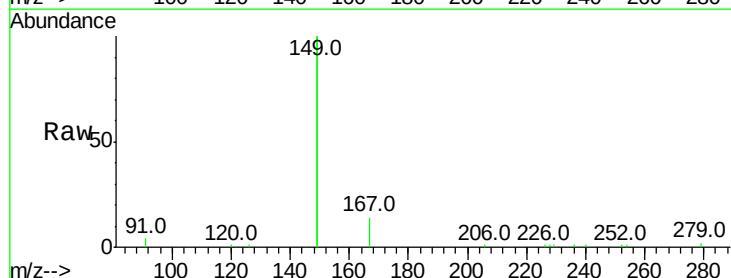
Tgt Ion:149 Resp: 26605

Ion Ratio Lower Upper

149 100

167 6.9 4.8 7.2

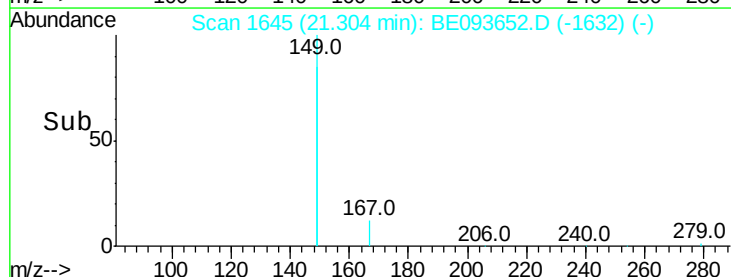
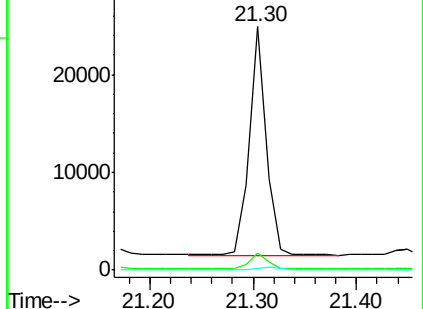
279 0.9 0.8 1.2

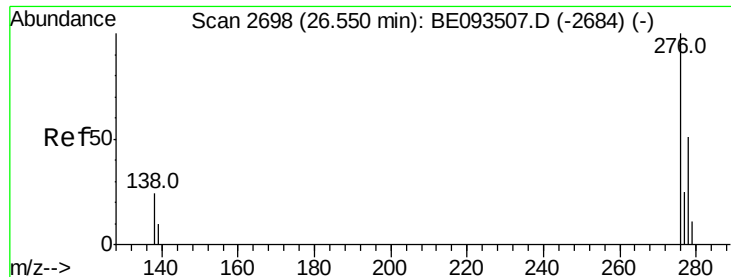


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

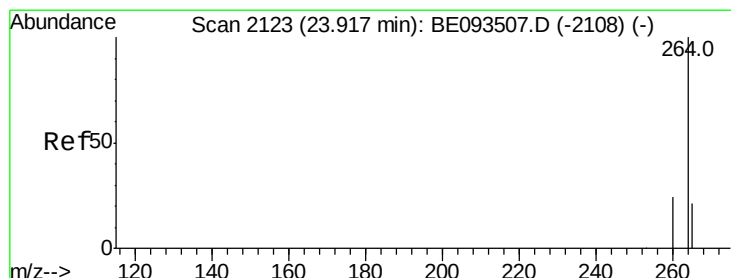
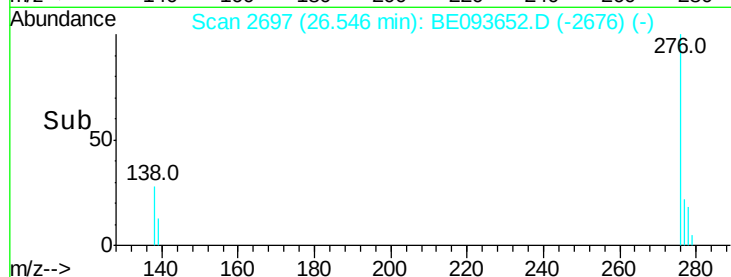
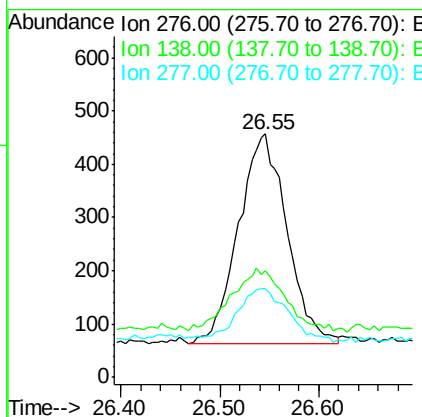
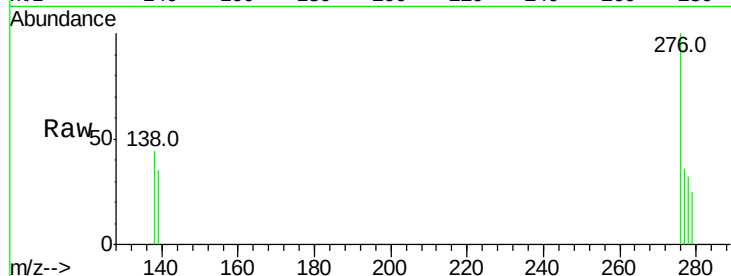




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.021 ng
 RT: 26.55 min Scan# 2697
 Delta R.T. -0.00 min
 Lab File: BE093652.D
 Acq: 3 Aug 2017 11:05

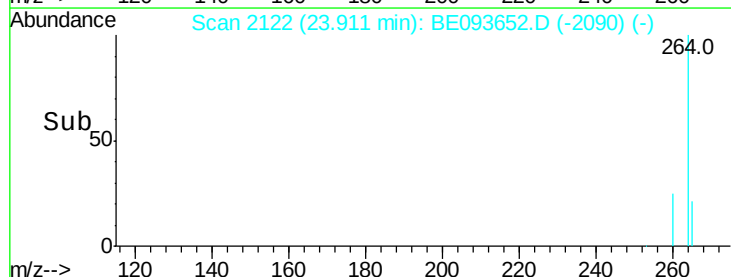
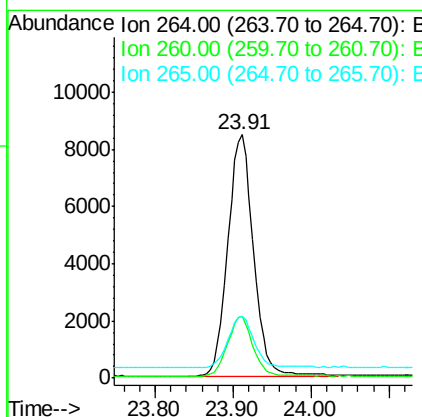
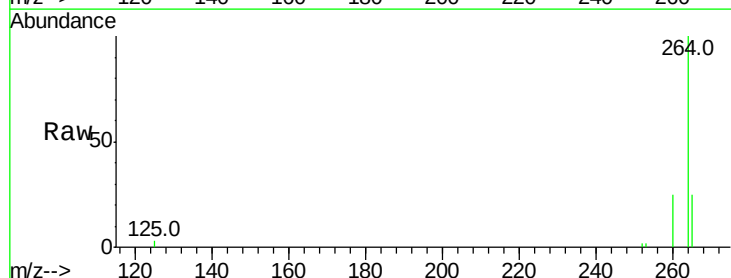
Instrument :
 BNA_E
 ClientSampleId :

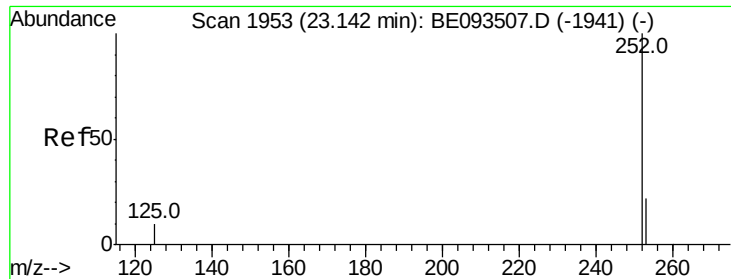
Tot Ion:276 Resp: 1331
 Ion Ratio Lower Upper
 276 100
 138 34.3 27.4 41.2
 277 27.8 20.1 30.1



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.91 min Scan# 2122
 Delta R.T. -0.01 min
 Lab File: BE093652.D
 Acq: 3 Aug 2017 11:05

Tgt Ion:264 Resp: 19330
 Ion Ratio Lower Upper
 264 100
 260 25.3 21.0 31.4
 265 25.3 24.6 36.8





#35

Benzo(b)fluoranthene

Concen: 0.026 ng

RT: 23.14 min Scan# 1953

Delta R.T. -0.00 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

Instrument :

BNA_E

ClientSampleId :

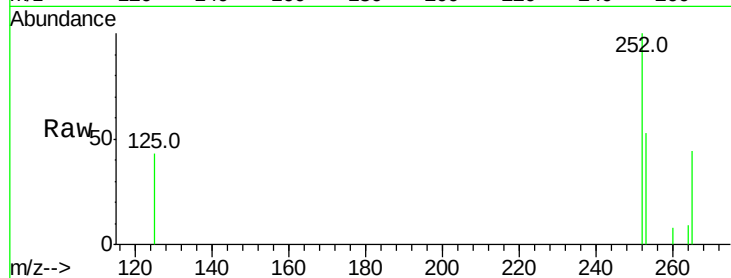
Tot Ion:252 Resp: 1821

Ion Ratio Lower Upper

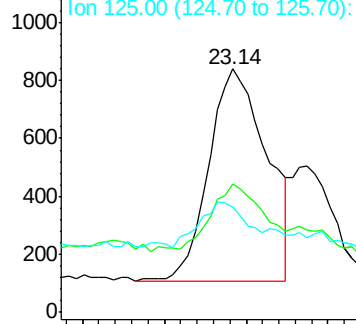
252 100

253 53.0 18.5 27.7#

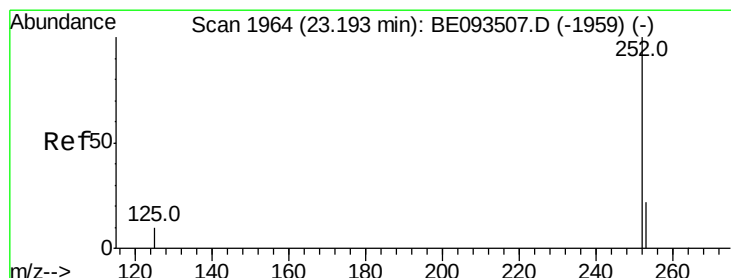
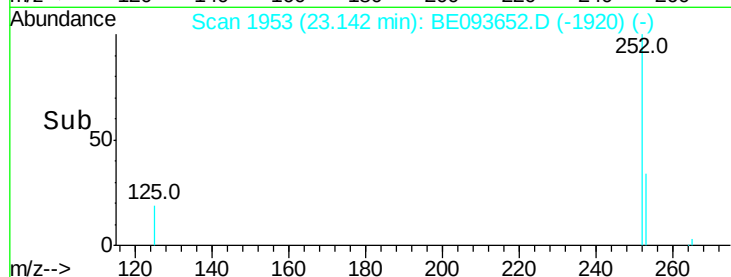
125 43.5 13.4 20.0#



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



Time--> 23.05 23.10 23.15 23.20



#36

Benzo(k)fluoranthene

Concen: 0.026 ng

RT: 23.14 min Scan# 1953

Delta R.T. -0.05 min

Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

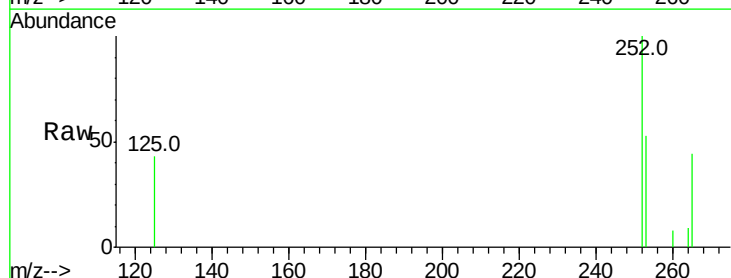
Tgt Ion:252 Resp: 1821

Ion Ratio Lower Upper

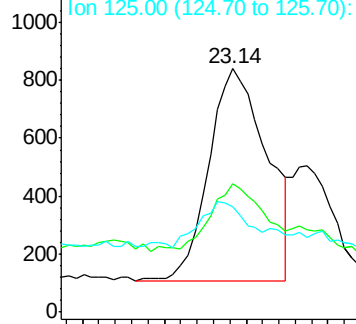
252 100

253 53.0 20.3 30.5#

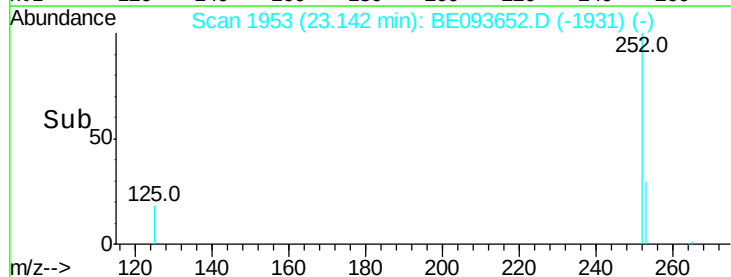
125 43.5 12.2 18.4#

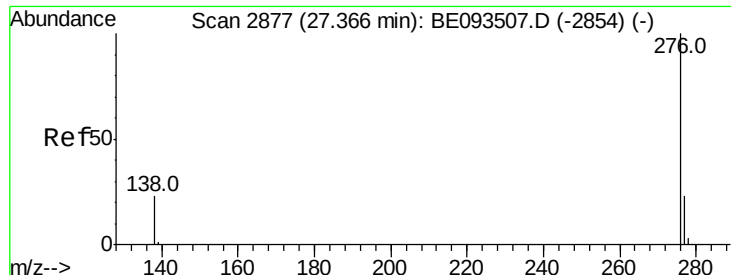


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



Time--> 23.05 23.10 23.15 23.20





#39

Benzo(a,h,i)perylene

Concen: 0.022 ng

RT: 27.36 min Scan# 2875

Delta R.T. -0.01 min

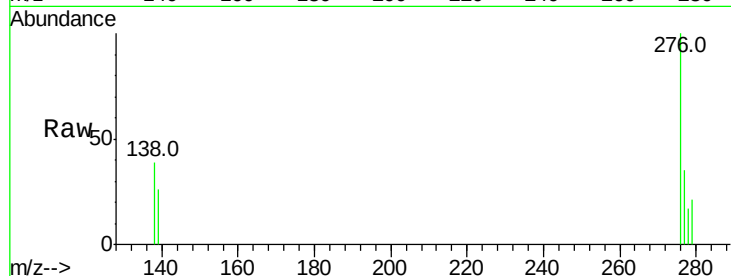
Lab File: BE093652.D

Acq: 3 Aug 2017 11:05

Instrument :

BNA_E

ClientSampleId :



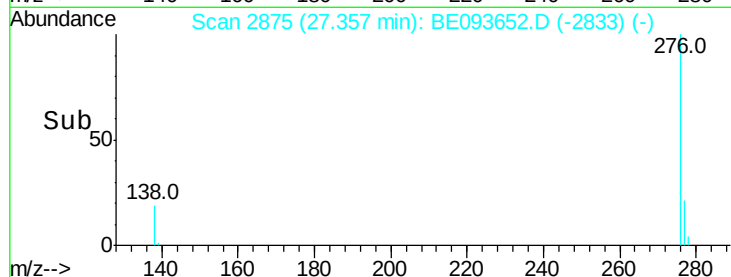
Tot Ion: 276 Resp: 1338

Ion Ratio Lower Upper

276 100

277 35.1 21.2 31.8#

138 39.4 24.5 36.7#



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

