

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE080217\
 Data File : BE093623.D
 Acq On : 2 Aug 2017 12:34
 Operator : SJ/JU
 Sample : I4351-02DL 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 0550DL

Quant Time: Aug 02 16:13:52 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	2673	0.40	ng	0.00
7) Naphthalene-d8	10.71	136	13436	0.40	ng	0.00
13) Acenaphthene-d10	14.53	164	7907	0.40	ng	0.00
19) Phenanthrene-d10	17.24	188	20993	0.40	ng	0.00
27) Chrysene-d12	21.40	240	20536	0.40	ng	-0.01
34) Perylene-d12	23.91	264	18122	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.52	112	428	0.05	ng	0.00
5) Phenol-d6	7.09	99	688	0.06	ng	0.00
8) Nitrobenzene-d5	9.06	82	534	0.05	ng	0.00
11) 2-Methylnaphthalene-d10	12.29	152	782	0.04	ng	0.00
14) 2,4,6-Tribromophenol	16.00	330	137	0.17	ng	0.00
15) 2-Fluorobiphenyl	13.15	172	1531	0.05	ng	-0.02
25) Fluoranthene-d10	19.27	212	14344	0.06	ng	0.00
29) Terphenyl-d14	19.86	244	3325	0.09	ng	0.00

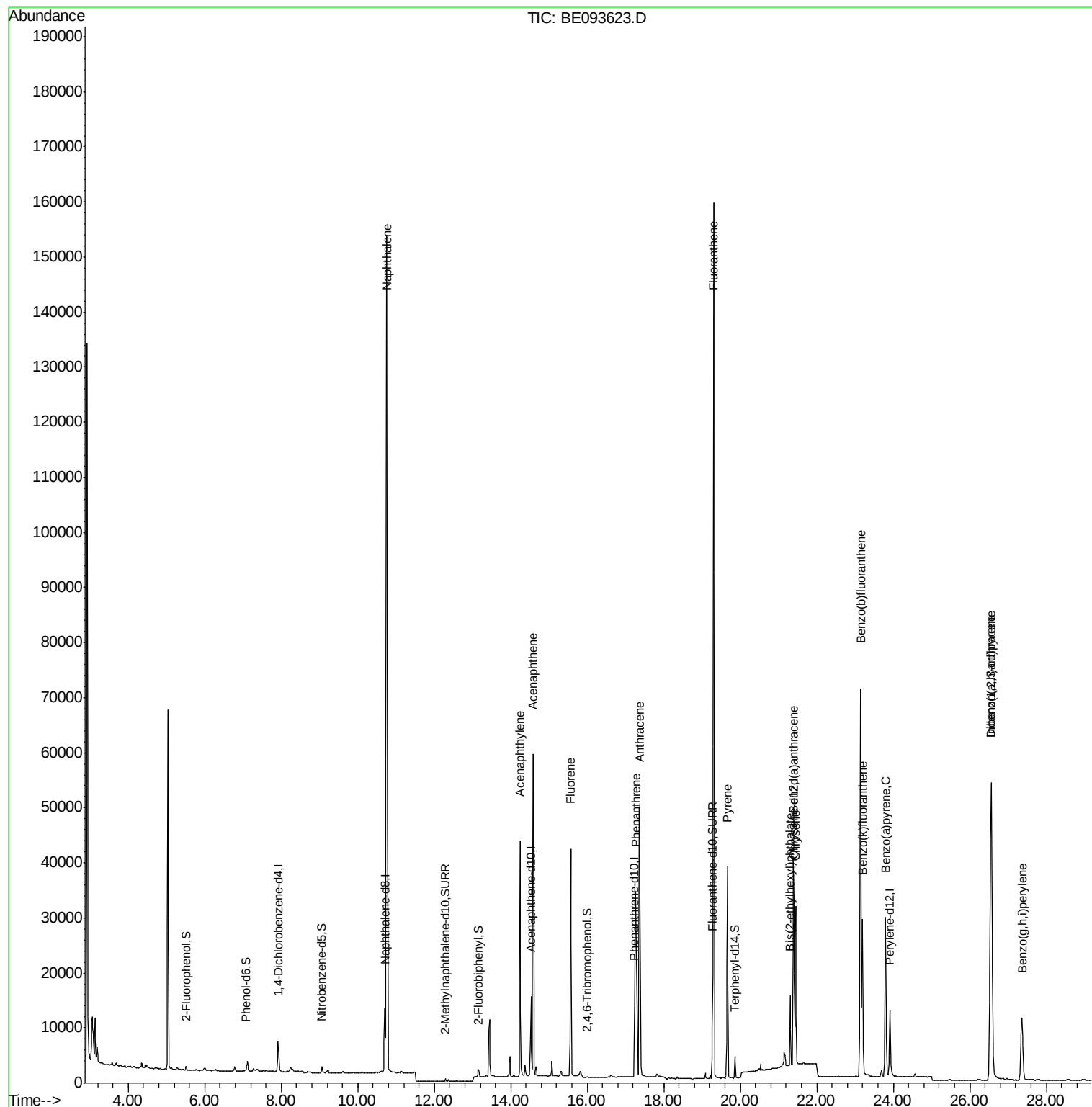
Target Compounds				Qvalue		
9) Naphthalene	10.76	128	241950	1.556	ng	99
16) Acenaphthylene	14.24	152	47112	1.247	ng	# 87
17) Acenaphthene	14.58	154	28967	1.087	ng	99
18) Fluorene	15.56	166	23540	0.661	ng	# 86
23) Phenanthrene	17.27	178	61698	1.337	ng	95
24) Anthracene	17.37	178	73930	1.171	ng	96
26) Fluoranthene	19.30	202	146090	1.987	ng	99
28) Pyrene	19.66	202	37350	0.563	ng	# 94
30) Benzo(a)anthracene	21.39	228	31154	0.516	ng	95
31) Chrysene	21.45	228	28947	0.430	ng	96
32) Bis(2-ethylhexyl)phthalate	21.30	149	14301	0.174	ng	99
33) Indeno(1,2,3-cd)pyrene	26.55	276	82686	1.356	ng	# 92
35) Benzo(b)fluoranthene	23.14	252	100585	1.556	ng	# 94
36) Benzo(k)fluoranthene	23.19	252	40479	0.613	ng	# 93
37) Benzo(a)pyrene	23.80	252	47155	0.805	ng	# 94
38) Dibenzo(a,h)anthracene	26.57	278	61008	1.079	ng	# 88
39) Benzo(g,h,i)perylene	27.36	276	27925	0.487	ng	# 91

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

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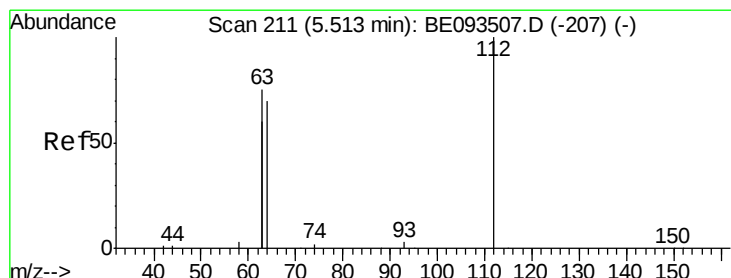
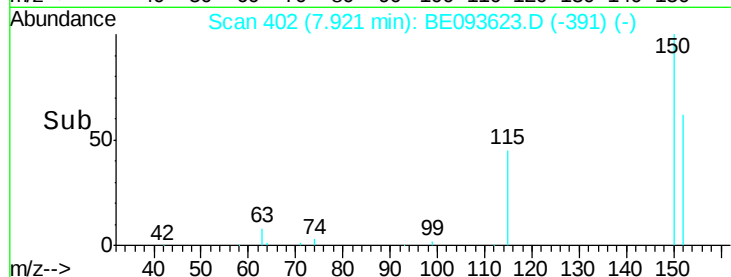
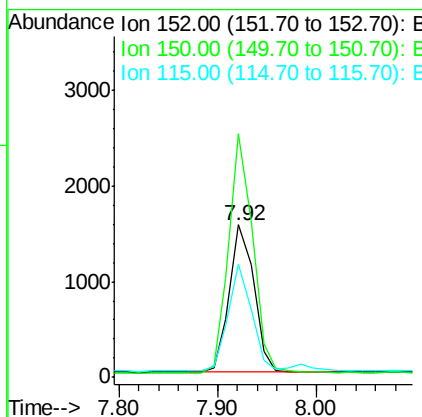
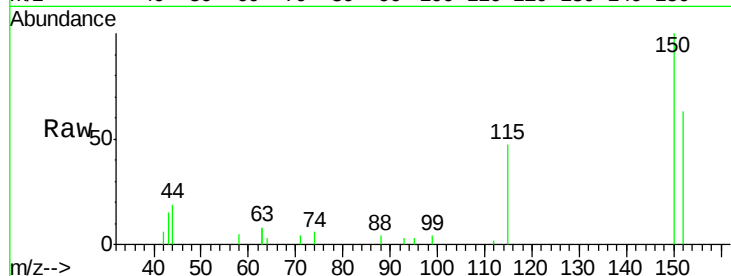


#1

1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.92 min Scan# 402
 Delta R.T. -0.01 min
 Lab File: BE093623.D
 Acq: 2 Aug 2017 12:34

Instrument :
 BNA_E
 ClientSampleId :
 0550DL

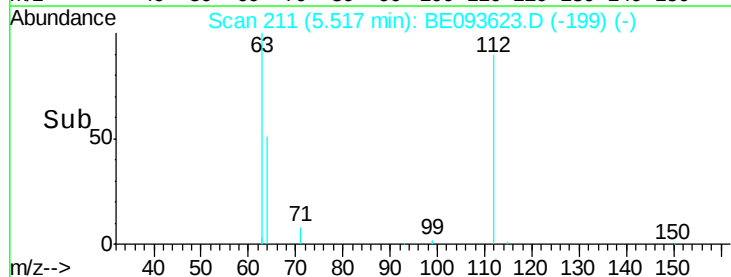
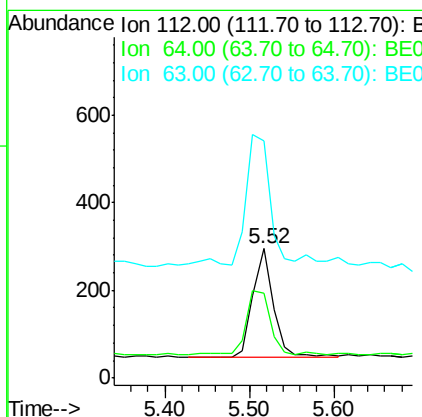
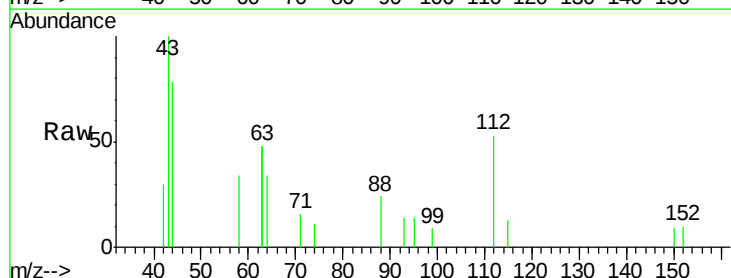
Tgt Ion:152 Resp: 2673
 Ion Ratio Lower Upper
 152 100
 150 159.5 125.1 187.7
 115 74.2 55.7 83.5

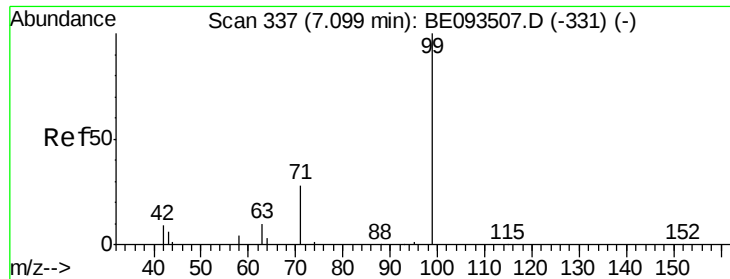


#4

2-Fluorophenol
 Concen: 0.054 ng
 RT: 5.52 min Scan# 211
 Delta R.T. 0.00 min
 Lab File: BE093623.D
 Acq: 2 Aug 2017 12:34

Tgt Ion:112 Resp: 428
 Ion Ratio Lower Upper
 112 100
 64 69.6 56.4 84.6
 63 147.2 29.3 43.9#





#5

Phenol-d6

Concen: 0.057 ng

RT: 7.09 min Scan# 336

Delta R.T. -0.01 min

Lab File: BE093623.D

Acq: 2 Aug 2017 12:34

Instrument :

BNA_E

ClientSampleId :

0550DL

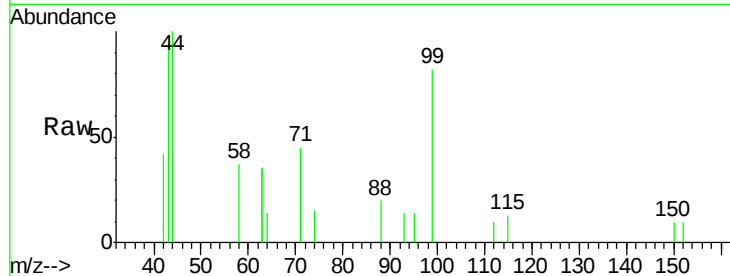
Tgt Ion: 99 Resp: 688

Ion Ratio Lower Upper

99 100

42 26.9 0.0 0.0#

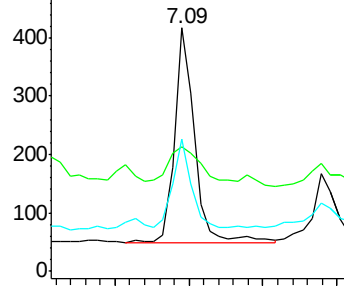
71 37.8 0.0 0.0#



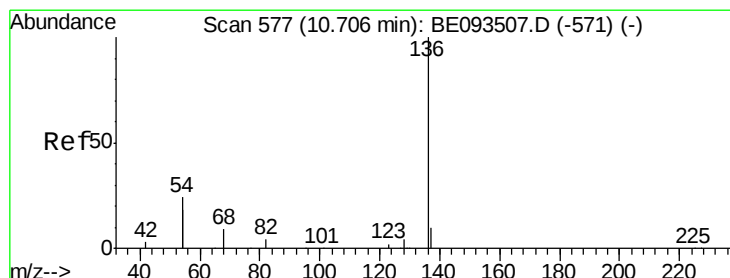
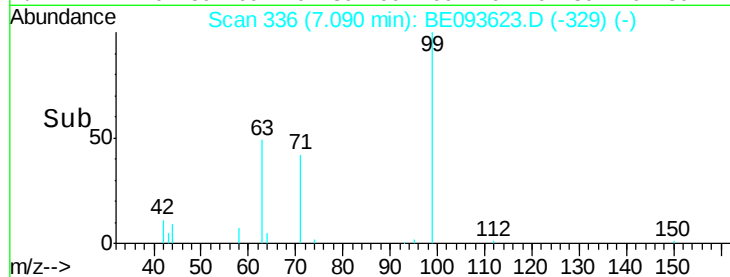
Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



Time-->



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.71 min Scan# 577

Delta R.T. 0.00 min

Lab File: BE093623.D

Acq: 2 Aug 2017 12:34

Tgt Ion: 136 Resp: 13436

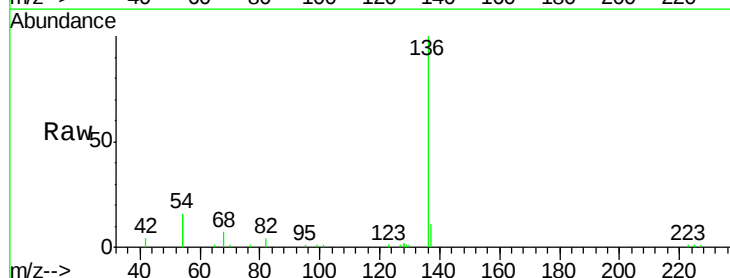
Ion Ratio Lower Upper

136 100

137 11.2 9.8 14.8

54 32.9 10.3 15.5#

68 6.9 9.0 13.4#

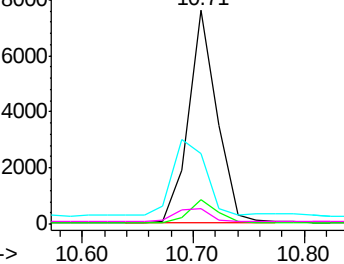


Abundance Ion 136.00 (135.70 to 136.70): E

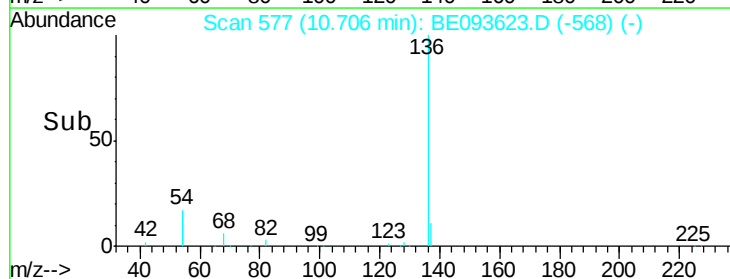
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



Time-->





#8

Nitrobenzene-d5

Concen: 0.052 ng

RT: 9.06 min Scan# 479

Delta R.T. 0.00 min

Lab File: BE093623.D

Acq: 2 Aug 2017 12:34

Instrument :

BNA_E

ClientSampled :

0550DL

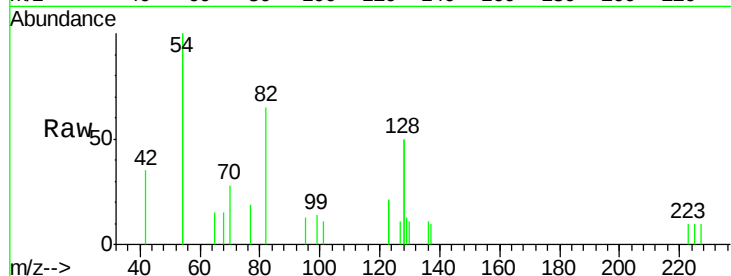
Tgt Ion: 82 Resp: 534

Ion Ratio Lower Upper

82 100

128 152.9 17.0 25.4#

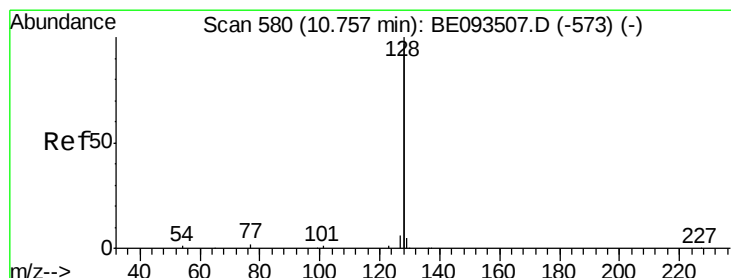
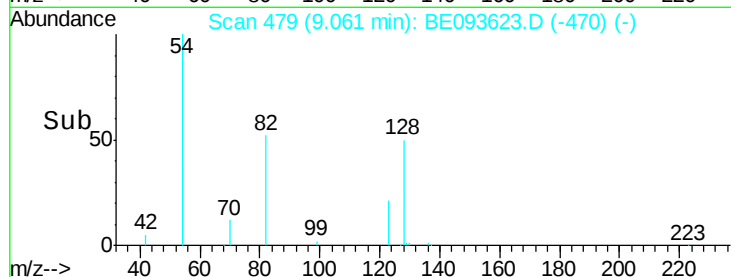
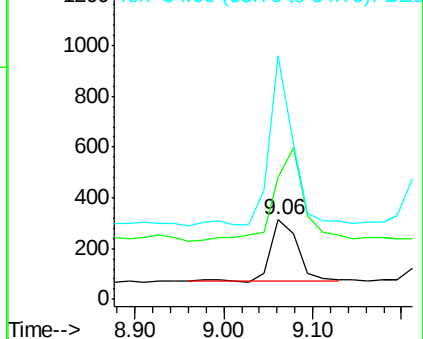
54 305.7 53.8 80.6#



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#9

Naphthalene

Concen: 1.556 ng

RT: 10.76 min Scan# 580

Delta R.T. 0.00 min

Lab File: BE093623.D

Acq: 2 Aug 2017 12:34

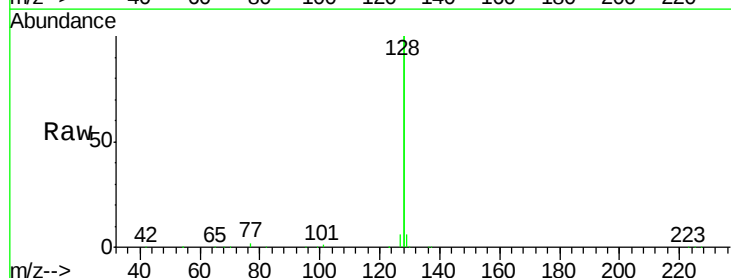
Tgt Ion: 128 Resp: 241950

Ion Ratio Lower Upper

128 100

129 2.8 2.4 3.6

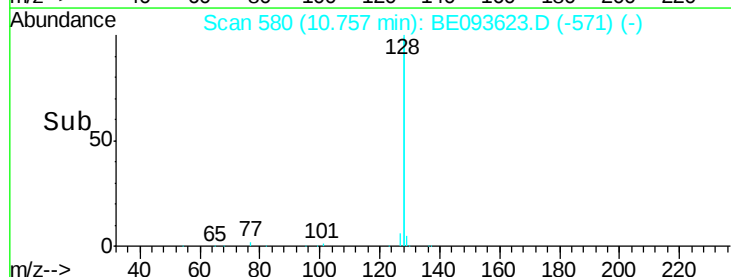
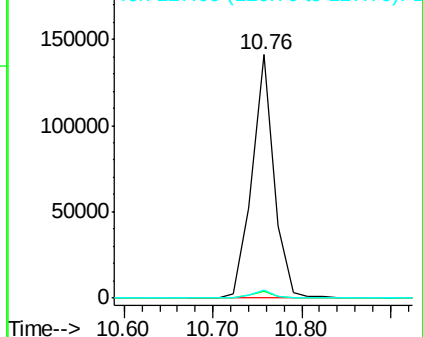
127 3.2 2.4 3.6

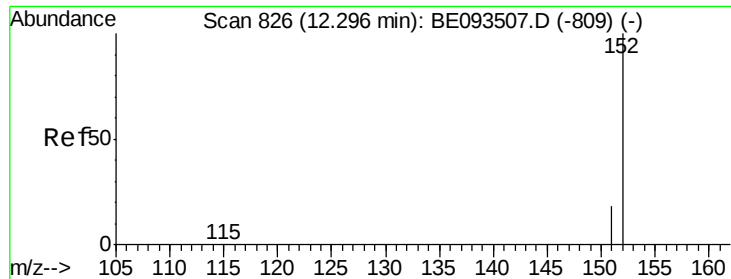


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

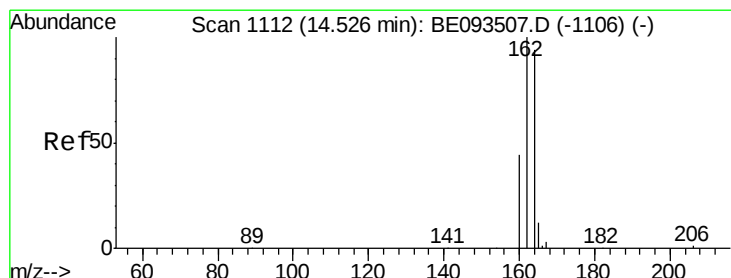
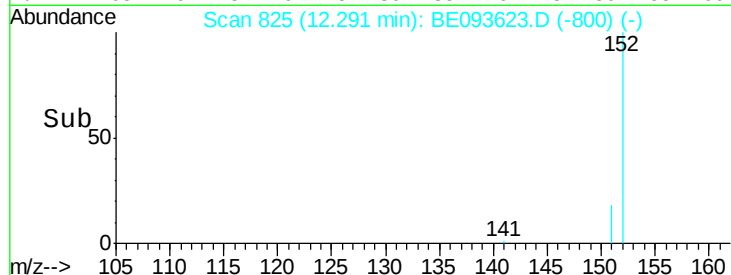
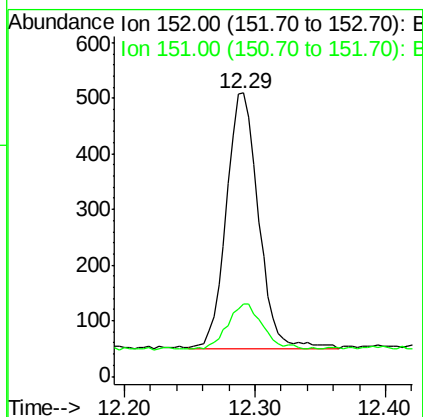
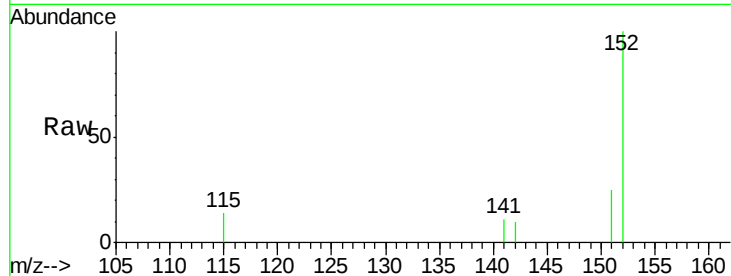




#11
2-Methylnaphthalene-d10
Concen: 0.037 ng
RT: 12.29 min Scan# 825
Delta R.T. -0.00 min
Lab File: BE093623.D
Acq: 2 Aug 2017 12:34

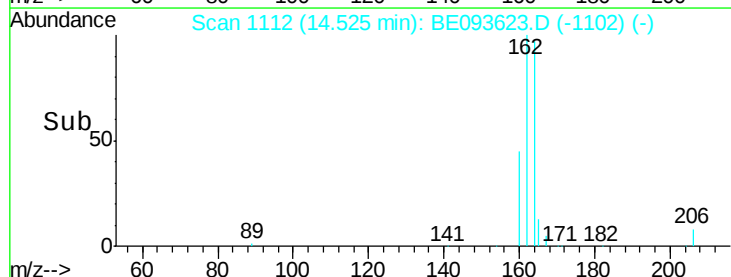
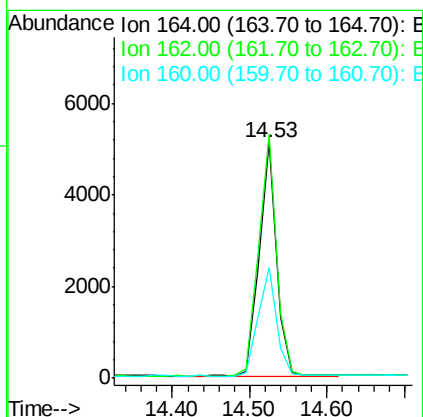
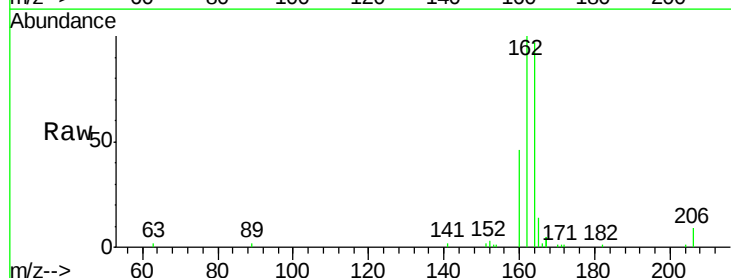
Instrument :
BNA_E
ClientSampleId :
0550DL

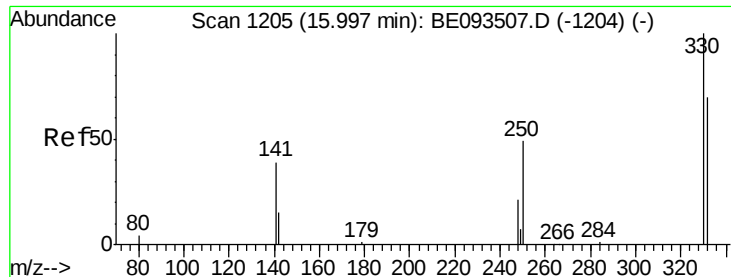
Tgt Ion:152 Resp: 782
Ion Ratio Lower Upper
152 100
151 19.4 15.1 22.7



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.53 min Scan# 1112
Delta R.T. -0.00 min
Lab File: BE093623.D
Acq: 2 Aug 2017 12:34

Tgt Ion:164 Resp: 7907
Ion Ratio Lower Upper
164 100
162 103.2 84.6 127.0
160 47.1 41.8 62.6

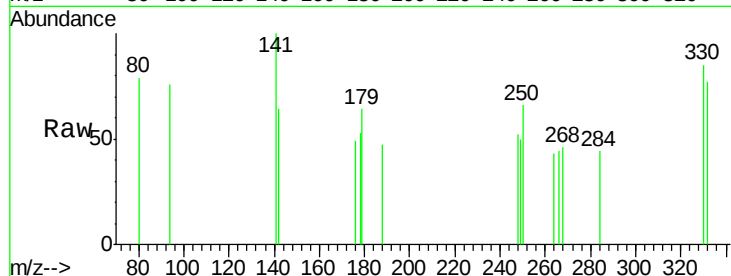




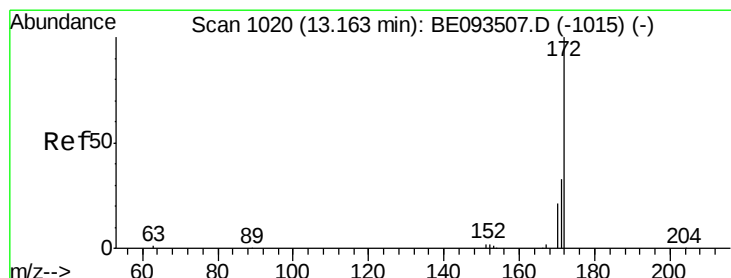
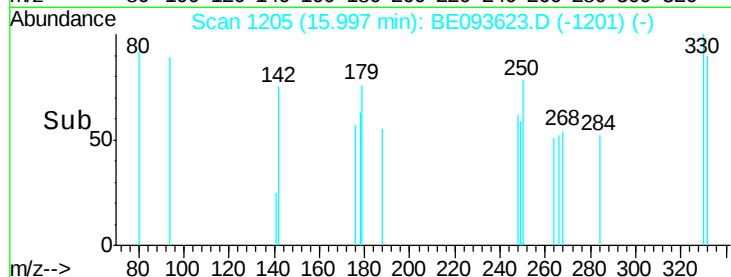
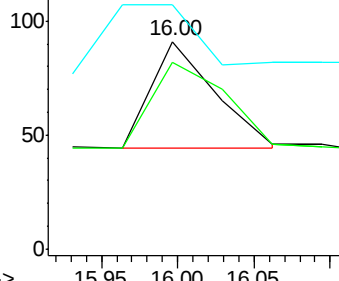
#14
 2,4,6-Tribromophenol
 Concen: 0.166 ng
 RT: 16.00 min Scan# 1205
 Delta R.T. -0.00 min
 Lab File: BE093623.D
 Acq: 2 Aug 2017 12:34

Instrument :
 BNA_E
 ClientSampled :
 0550DL

Tgt Ion: 330 Resp: 137
 Ion Ratio Lower Upper
 330 100
 332 94.2 77.7 116.5
 141 0.0 56.2 84.4#

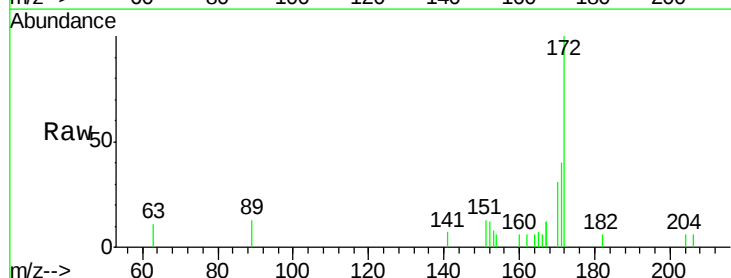


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

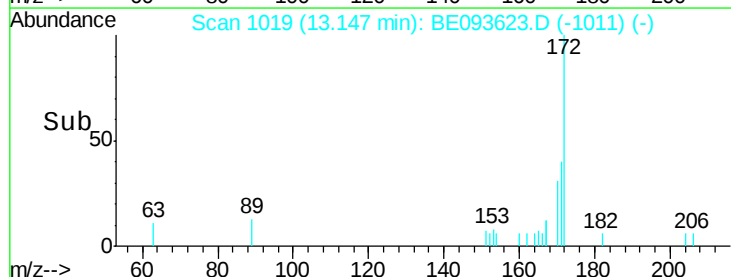
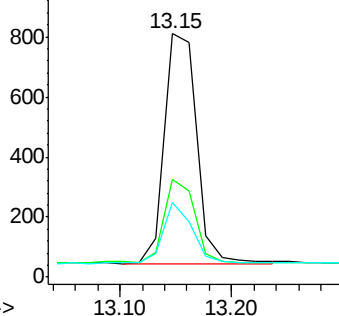


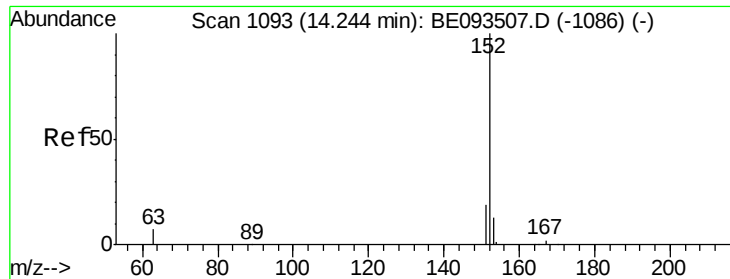
#15
 2-Fluorobiphenyl
 Concen: 0.048 ng
 RT: 13.15 min Scan# 1019
 Delta R.T. -0.02 min
 Lab File: BE093623.D
 Acq: 2 Aug 2017 12:34

Tgt Ion: 172 Resp: 1531
 Ion Ratio Lower Upper
 172 100
 171 40.1 29.8 44.6
 170 30.8 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





#16

Acenaphthylene

Concen: 1.247 ng

RT: 14.24 min Scan# 1093

Delta R.T. -0.00 min

Lab File: BE093623.D

Acq: 2 Aug 2017 12:34

Instrument :

BNA_E

ClientSampleId :

0550DL

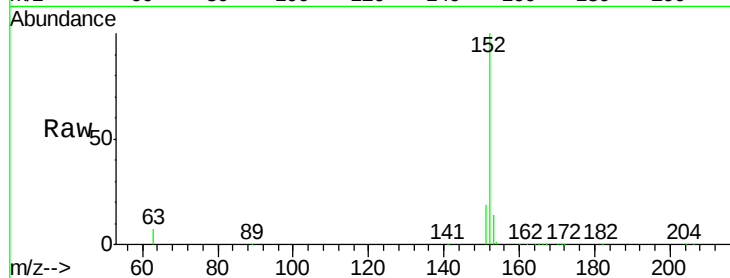
Tgt Ion:152 Resp: 47112

Ion Ratio Lower Upper

152 100

151 19.6 4.0 6.0#

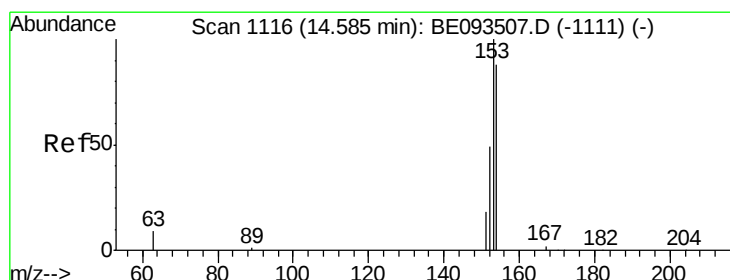
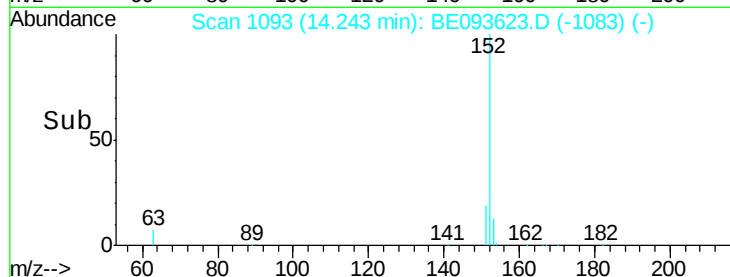
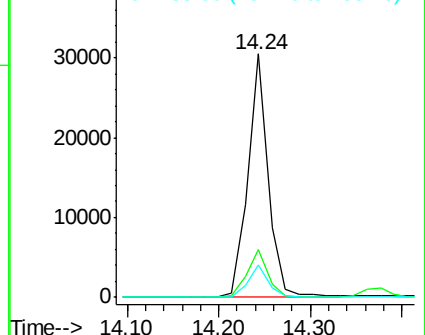
153 13.3 10.3 15.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#17

Acenaphthene

Concen: 1.087 ng

RT: 14.58 min Scan# 1116

Delta R.T. -0.00 min

Lab File: BE093623.D

Acq: 2 Aug 2017 12:34

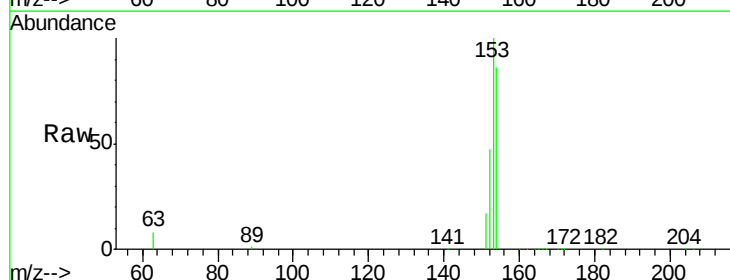
Tgt Ion:154 Resp: 28967

Ion Ratio Lower Upper

154 100

153 115.2 91.2 136.8

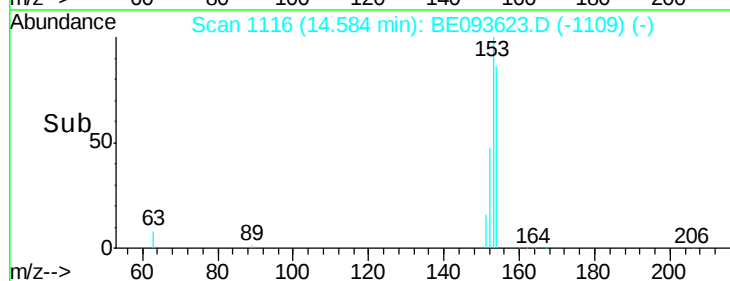
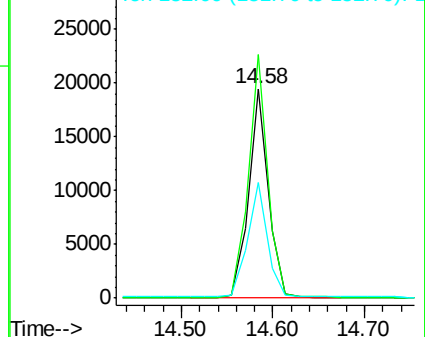
152 55.3 44.8 67.2

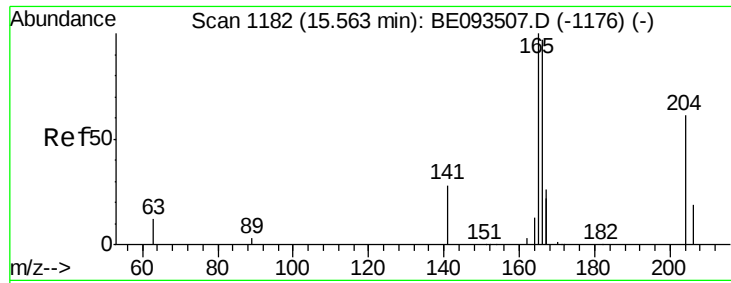


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#18

Fluorene

Concen: 0.661 ng

RT: 15.56 min Scan# 1182

Delta R.T. -0.00 min

Lab File: BE093623.D

Acq: 2 Aug 2017 12:34

Instrument :

BNA_E

ClientSampleId :

0550DL

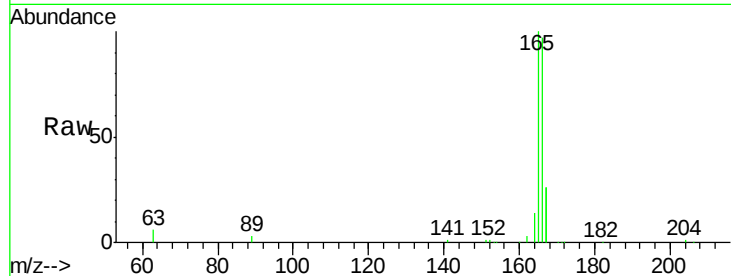
Tgt Ion:166 Resp: 23540

Ion Ratio Lower Upper

166 100

165 99.5 78.6 117.8

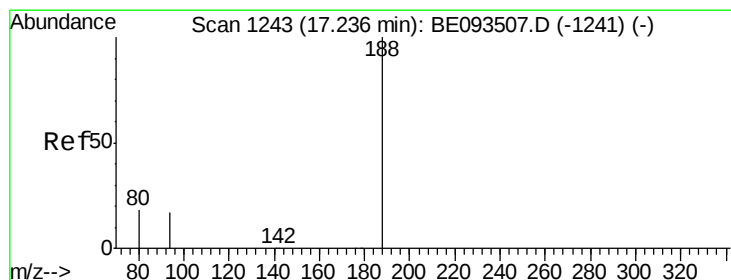
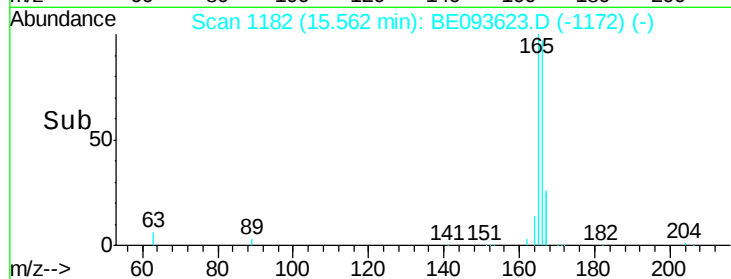
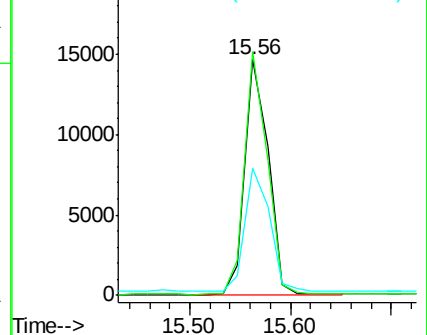
167 55.8 11.1 16.7#



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: 17.24 min Scan# 1243

Delta R.T. -0.00 min

Lab File: BE093623.D

Acq: 2 Aug 2017 12:34

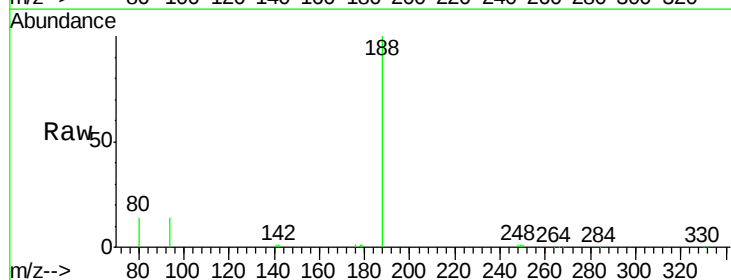
Tgt Ion:188 Resp: 20993

Ion Ratio Lower Upper

188 100

94 14.1 11.3 16.9

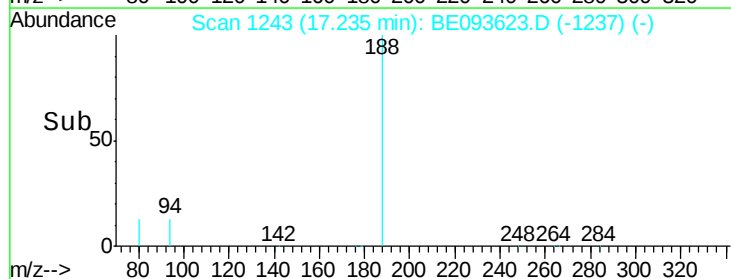
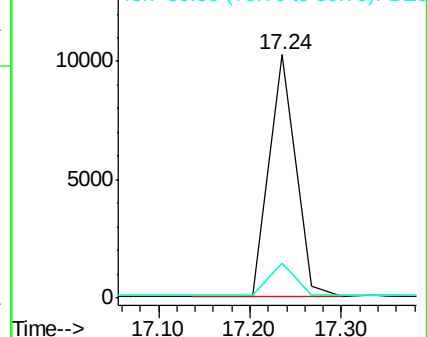
80 14.4 11.7 17.5

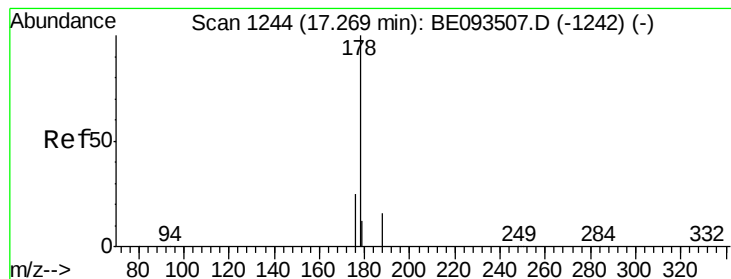


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#23

Phenanthrene

Concen: 1.337 ng

RT: 17.27 min Scan# 1244

Delta R.T. -0.00 min

Lab File: BE093623.D

Acq: 2 Aug 2017 12:34

Instrument :

BNA_E

ClientSampleId :

0550DL

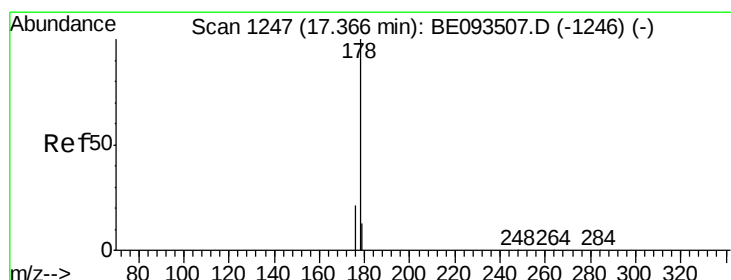
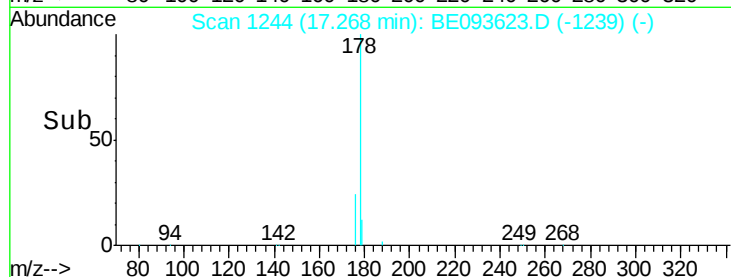
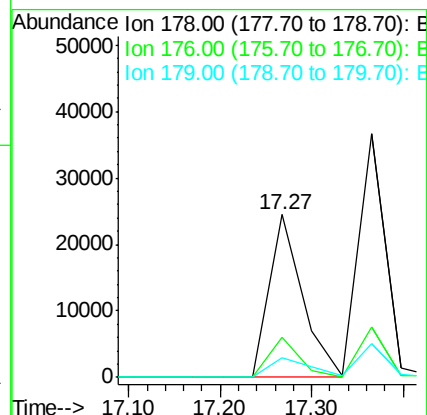
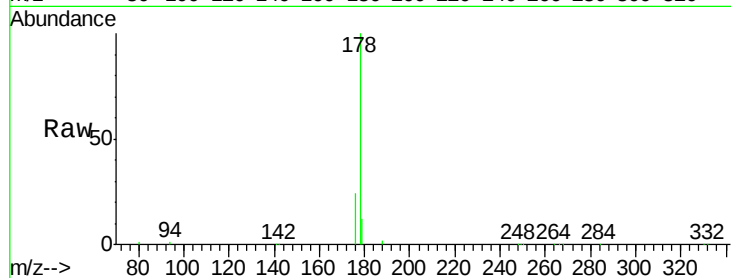
Tgt Ion:178 Resp: 61698

Ion Ratio Lower Upper

178 100

176 21.6 15.0 22.4

179 14.1 12.7 19.1



#24

Anthracene

Concen: 1.171 ng

RT: 17.37 min Scan# 1247

Delta R.T. -0.00 min

Lab File: BE093623.D

Acq: 2 Aug 2017 12:34

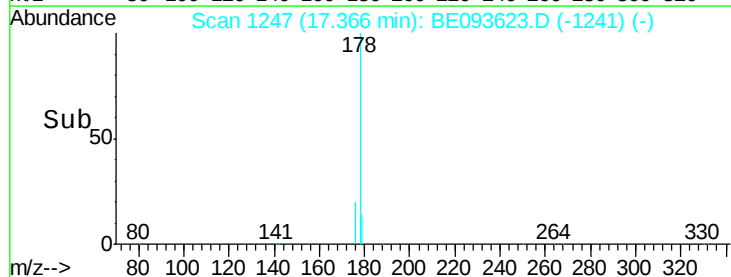
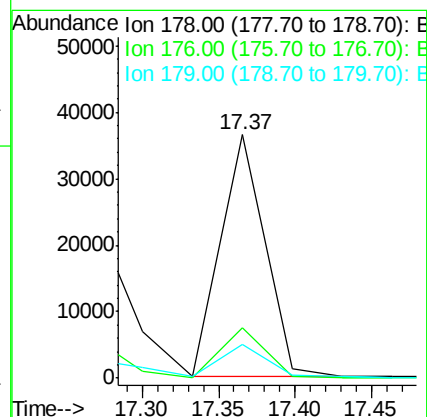
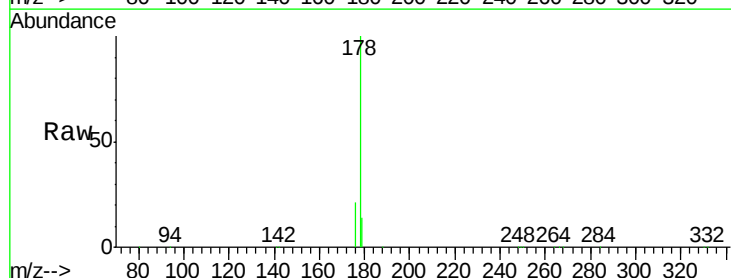
Tgt Ion:178 Resp: 73930

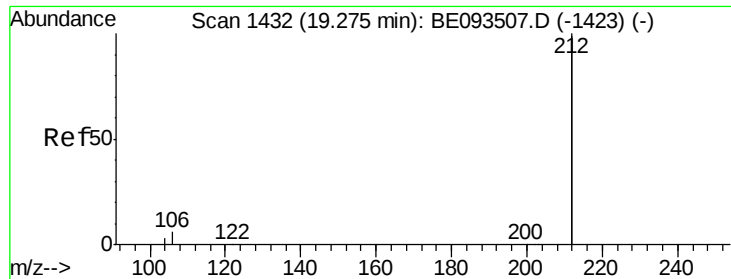
Ion Ratio Lower Upper

178 100

176 20.1 14.6 22.0

179 13.6 12.0 18.0





#25

Fluoranthene-d10

Concen: 0.060 ng

RT: 19.27 min Scan# 1432

Delta R.T. -0.00 min

Lab File: BE093623.D

Acq: 2 Aug 2017 12:34

Instrument :

BNA_E

ClientSampleId :

0550DL

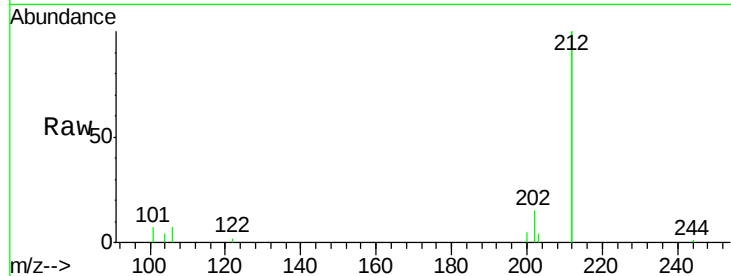
Tgt Ion:212 Resp: 14344

Ion Ratio Lower Upper

212 100

106 3.4 2.4 3.6

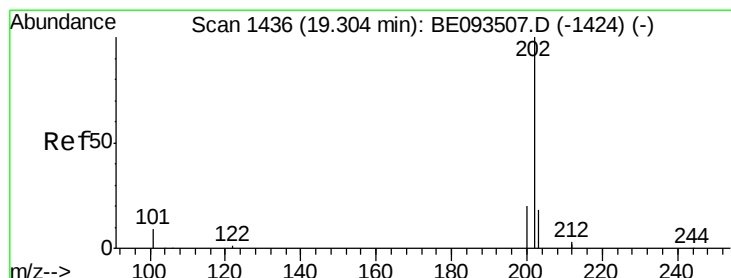
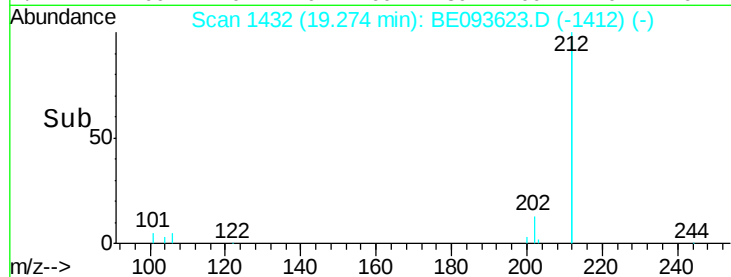
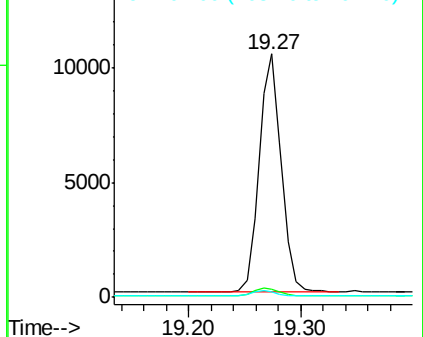
104 2.0 1.6 2.4



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



#26

Fluoranthene

Concen: 1.987 ng

RT: 19.30 min Scan# 1436

Delta R.T. -0.00 min

Lab File: BE093623.D

Acq: 2 Aug 2017 12:34

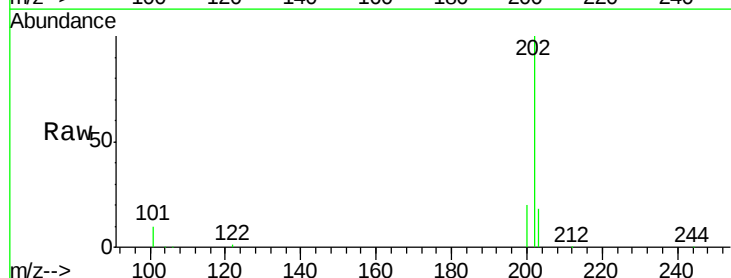
Tgt Ion:202 Resp: 146090

Ion Ratio Lower Upper

202 100

101 12.0 9.6 14.4

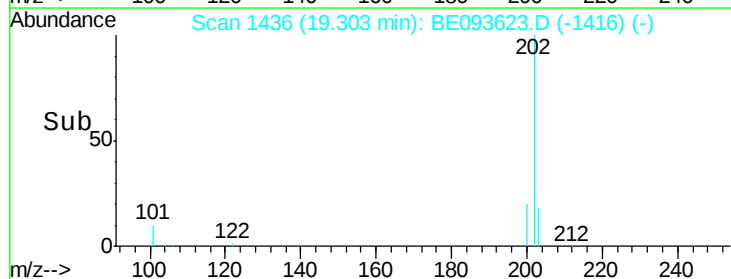
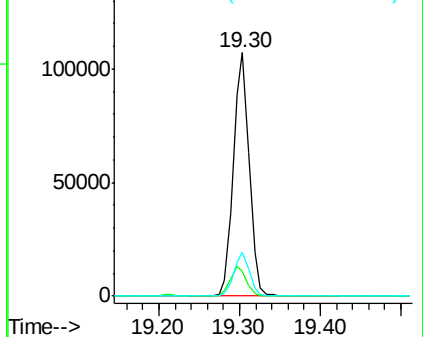
203 17.5 14.4 21.6

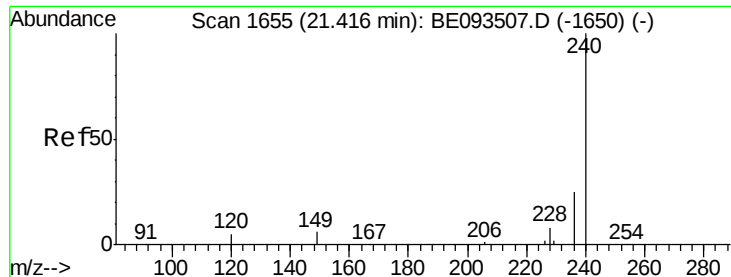


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

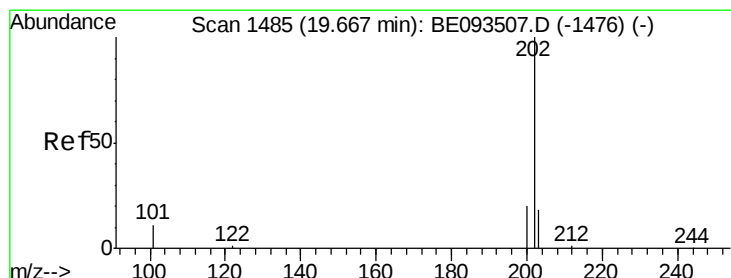
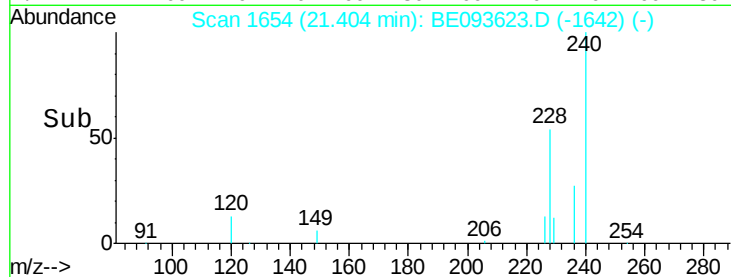
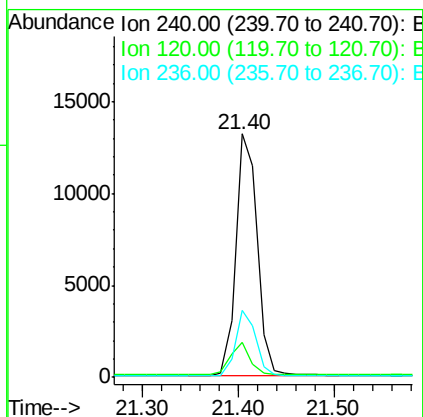
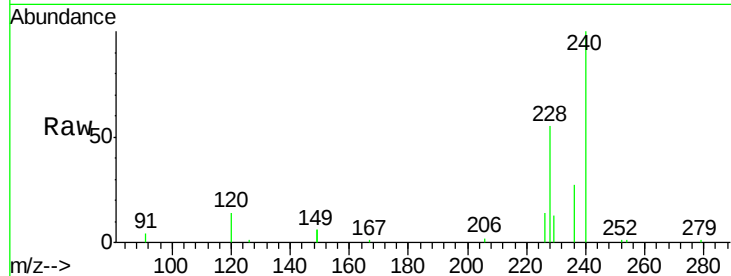




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.40 min Scan# 1654
 Delta R.T. -0.01 min
 Lab File: BE093623.D
 Acq: 2 Aug 2017 12:34

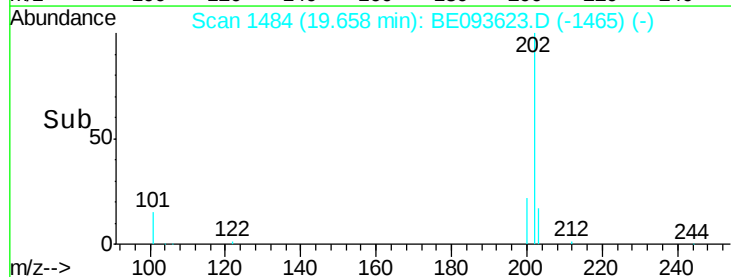
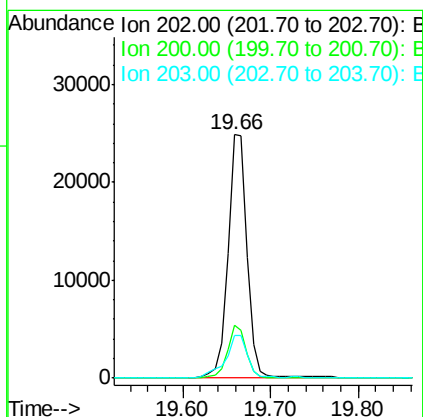
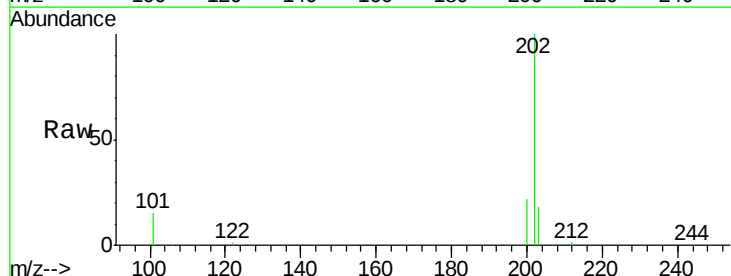
Instrument :
 BNA_E
 ClientSampleId :
 0550DL

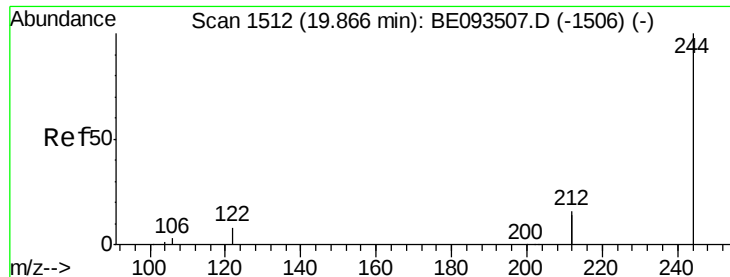
Tgt Ion:240 Resp: 20536
 Ion Ratio Lower Upper
 240 100
 120 14.4 4.6 7.0#
 236 27.5 20.8 31.2



#28
 Pyrene
 Concen: 0.563 ng
 RT: 19.66 min Scan# 1484
 Delta R.T. -0.01 min
 Lab File: BE093623.D
 Acq: 2 Aug 2017 12:34

Tgt Ion:202 Resp: 37350
 Ion Ratio Lower Upper
 202 100
 200 20.9 0.0 0.0#
 203 19.7 13.7 20.5





#29

Terphenyl-d14

Concen: 0.090 ng

RT: 19.86 min Scan# 1511

Delta R.T. -0.01 min

Lab File: BE093623.D

Acq: 2 Aug 2017 12:34

Instrument :

BNA_E

ClientSampleId :

0550DL

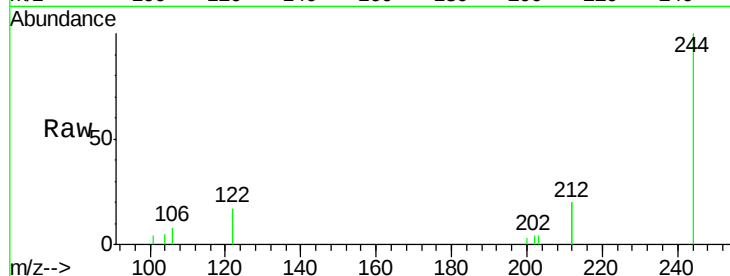
Tgt Ion:244 Resp: 3325

Ion Ratio Lower Upper

244 100

212 40.8 10.6 16.0#

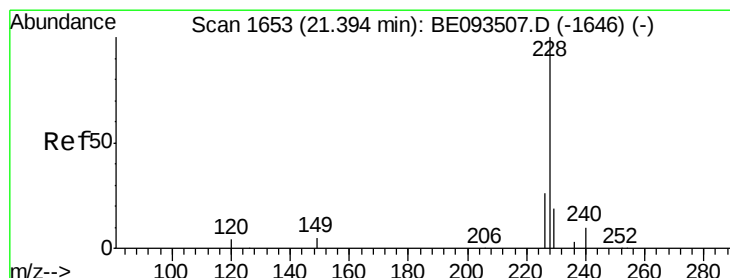
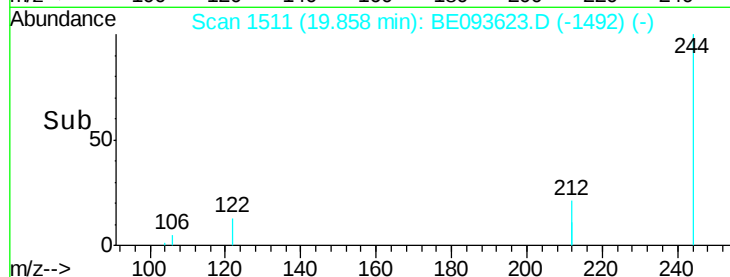
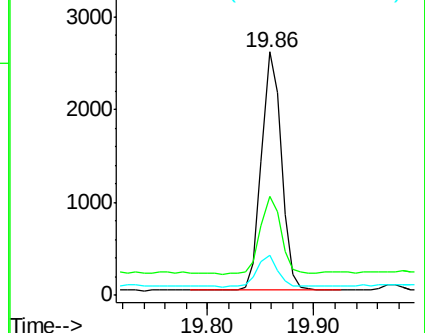
122 16.6 15.4 23.0



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: 0.516 ng

RT: 21.39 min Scan# 1653

Delta R.T. -0.00 min

Lab File: BE093623.D

Acq: 2 Aug 2017 12:34

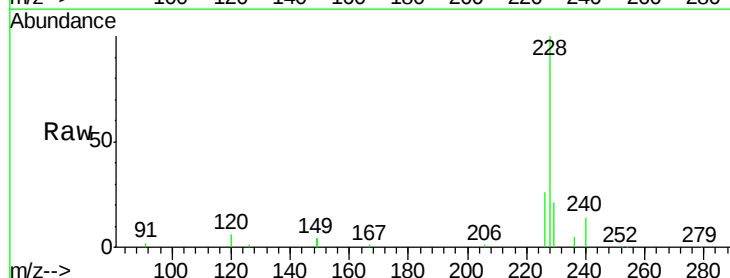
Tgt Ion:228 Resp: 31154

Ion Ratio Lower Upper

228 100

226 26.0 19.7 29.5

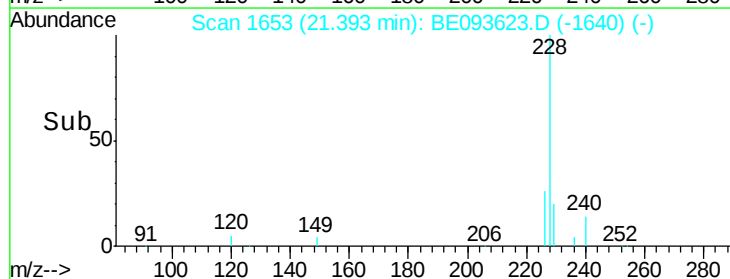
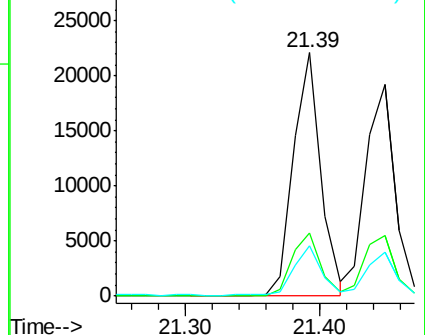
229 20.7 19.2 28.8

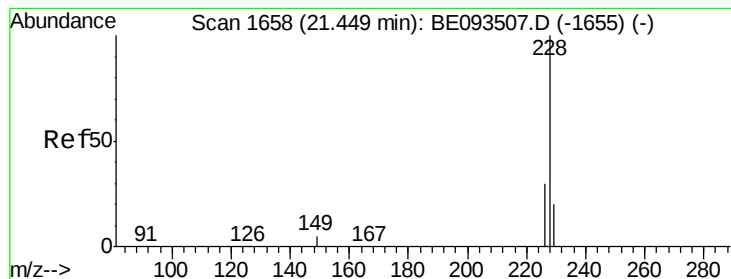


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.430 ng

RT: 21.45 min Scan# 1658

Delta R.T. -0.00 min

Lab File: BE093623.D

Acq: 2 Aug 2017 12:34

Instrument :

BNA_E

ClientSampleId :

0550DL

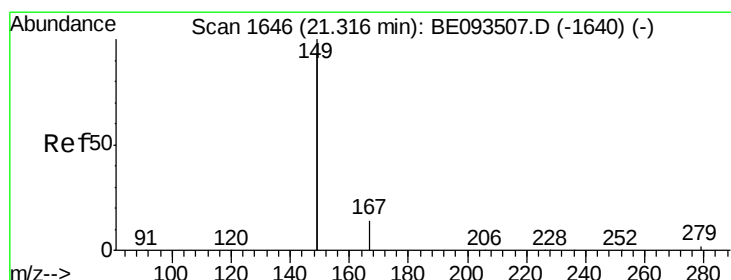
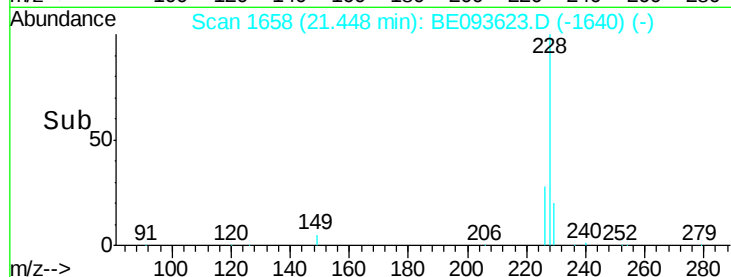
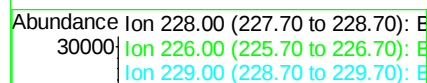
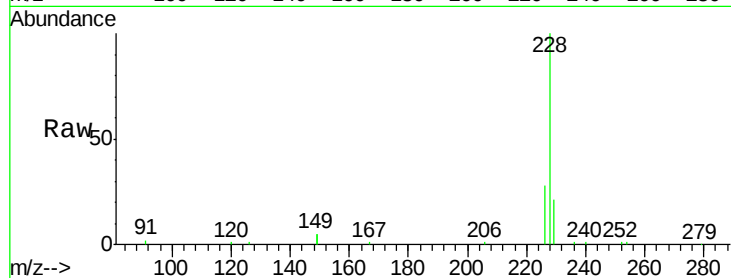
Tgt Ion:228 Resp: 28947

Ion Ratio Lower Upper

228 100

226 28.5 21.5 32.3

229 20.6 18.6 28.0



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.174 ng

RT: 21.30 min Scan# 1645

Delta R.T. -0.01 min

Lab File: BE093623.D

Acq: 2 Aug 2017 12:34

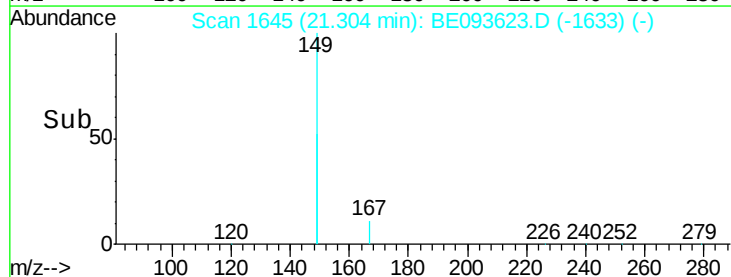
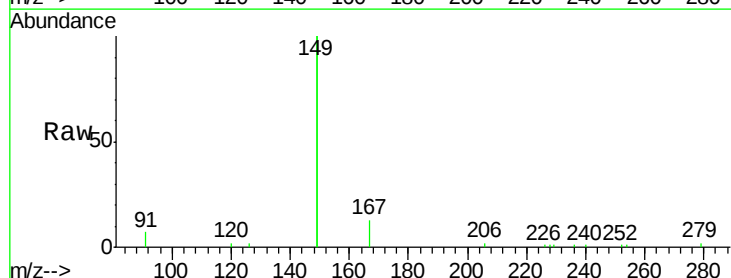
Tgt Ion:149 Resp: 14301

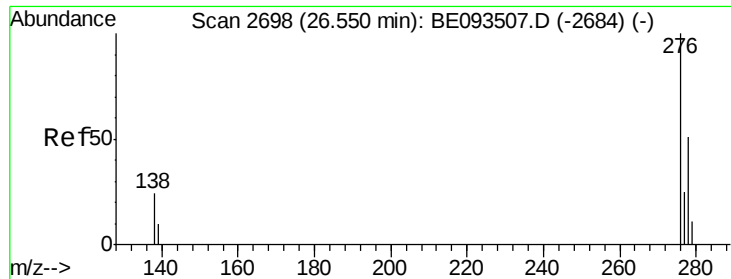
Ion Ratio Lower Upper

149 100

167 6.5 4.8 7.2

279 1.0 0.8 1.2

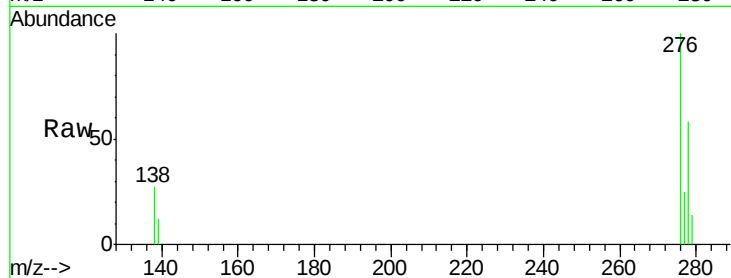




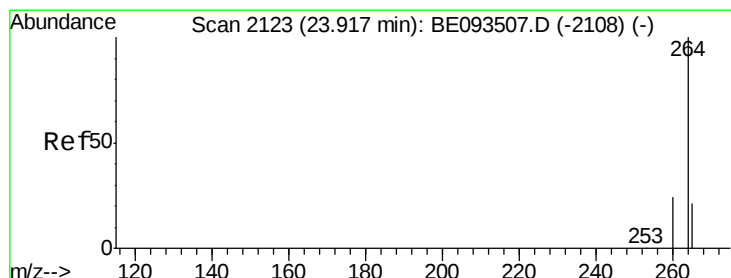
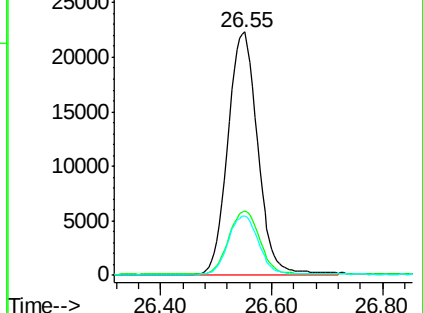
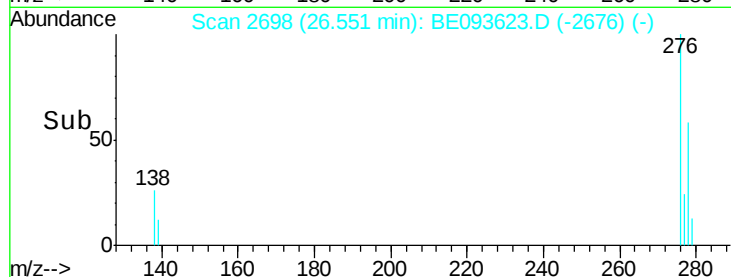
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 1.356 ng
 RT: 26.55 min Scan# 2698
 Delta R.T. 0.00 min
 Lab File: BE093623.D
 Acq: 2 Aug 2017 12:34

Instrument :
 BNA_E
 ClientSampleId :
 0550DL

Tgt Ion:276 Resp: 82686
 Ion Ratio Lower Upper
 276 100
 138 27.2 27.4 41.2#
 277 24.7 20.1 30.1

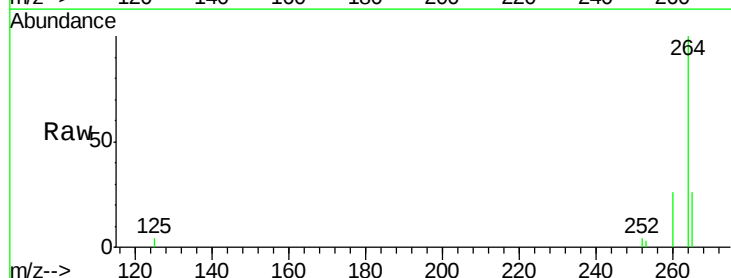


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

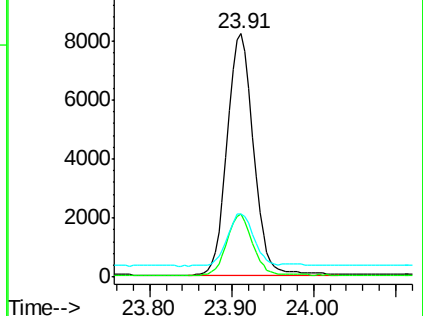
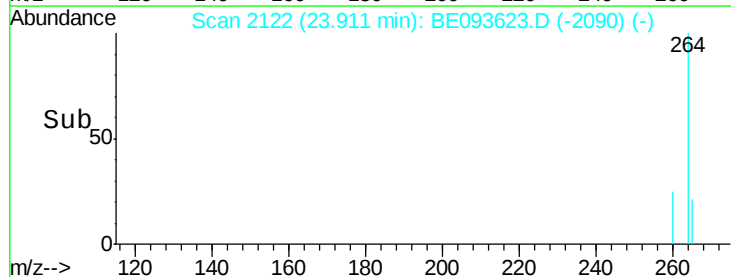


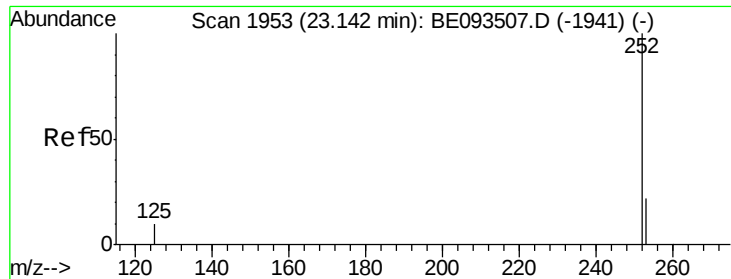
#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.91 min Scan# 2122
 Delta R.T. -0.01 min
 Lab File: BE093623.D
 Acq: 2 Aug 2017 12:34

Tgt Ion:264 Resp: 18122
 Ion Ratio Lower Upper
 264 100
 260 25.7 21.0 31.4
 265 25.8 24.6 36.8



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: 1.556 ng

RT: 23.14 min Scan# 1953

Delta R.T. -0.00 min

Lab File: BE093623.D

Acq: 2 Aug 2017 12:34

Instrument :

BNA_E

ClientSampleId :

0550DL

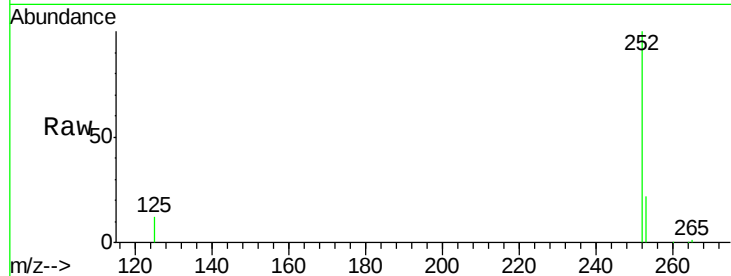
Tgt Ion:252 Resp: 100585

Ion Ratio Lower Upper

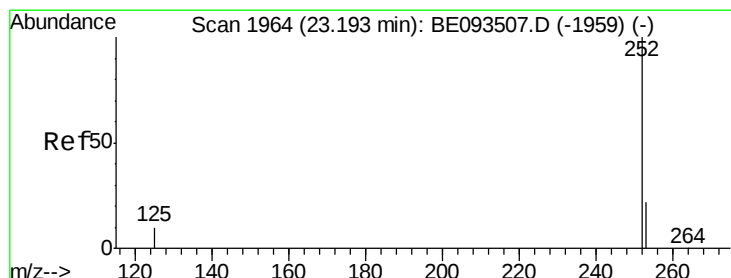
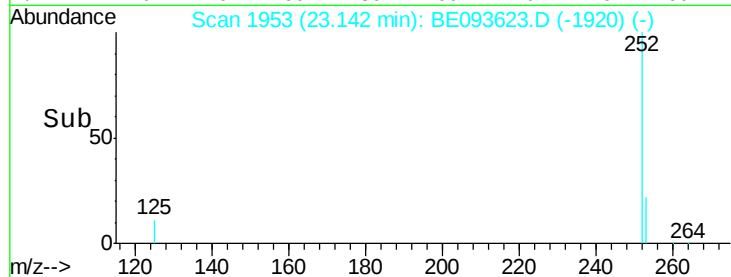
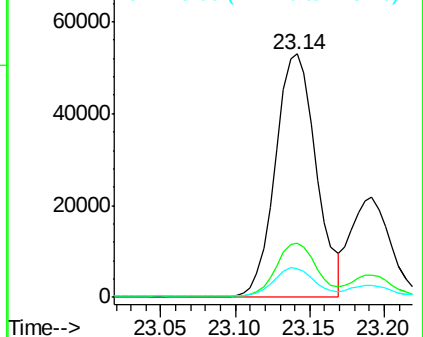
252 100

253 22.4 18.5 27.7

125 11.9 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



#36

Benzo(k)fluoranthene

Concen: 0.613 ng

RT: 23.19 min Scan# 1964

Delta R.T. -0.00 min

Lab File: BE093623.D

Acq: 2 Aug 2017 12:34

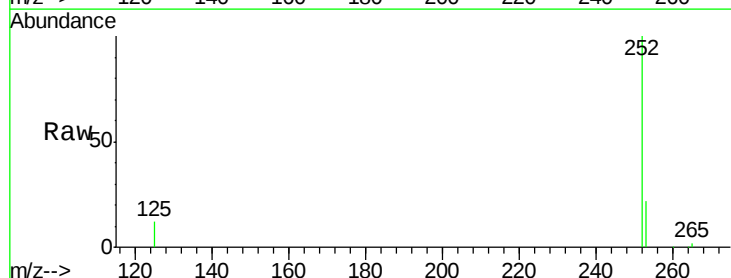
Tgt Ion:252 Resp: 40479

Ion Ratio Lower Upper

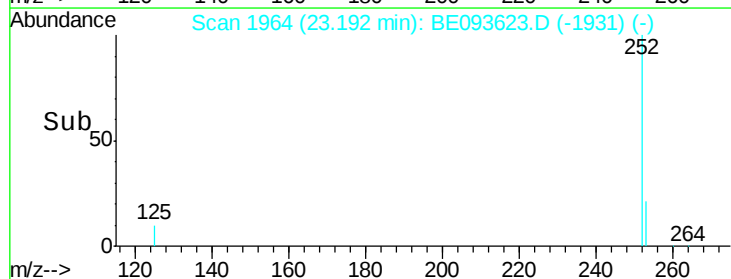
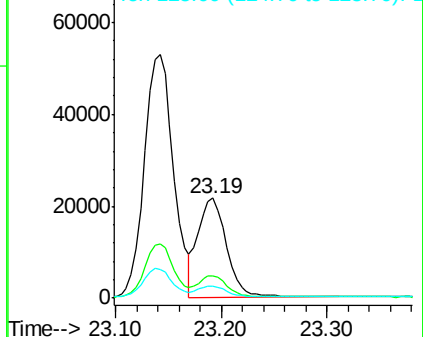
252 100

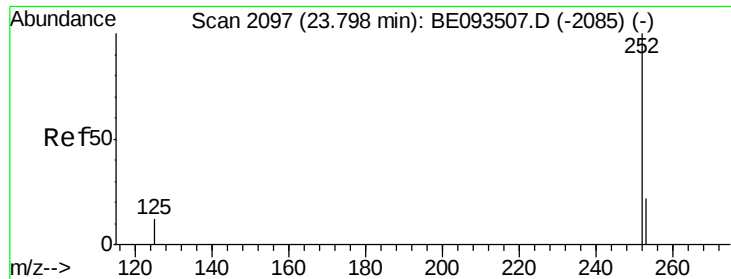
253 22.3 20.3 30.5

125 12.0 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





#37

Benzo(a)pyrene

Concen: 0.805 ng

RT: 23.80 min Scan# 2097

Delta R.T. -0.00 min

Lab File: BE093623.D

Acq: 2 Aug 2017 12:34

Instrument :

BNA_E

ClientSampleId :

0550DL

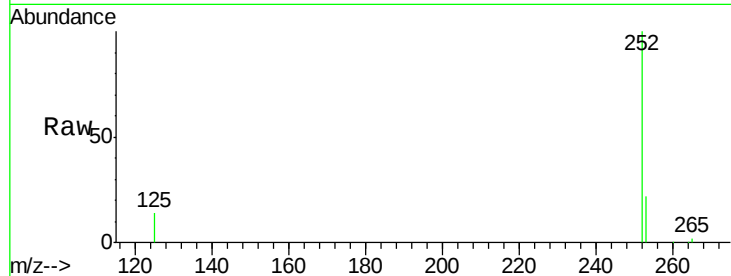
Tgt Ion:252 Resp: 47155

Ion Ratio Lower Upper

252 100

253 22.5 19.9 29.9

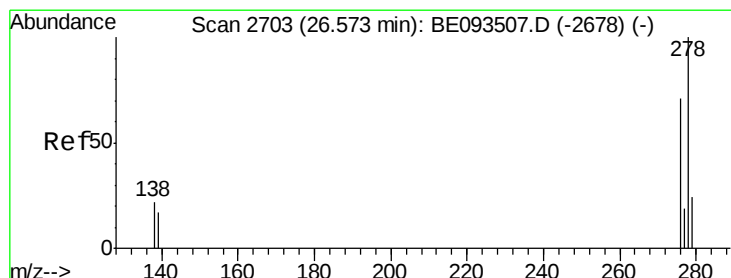
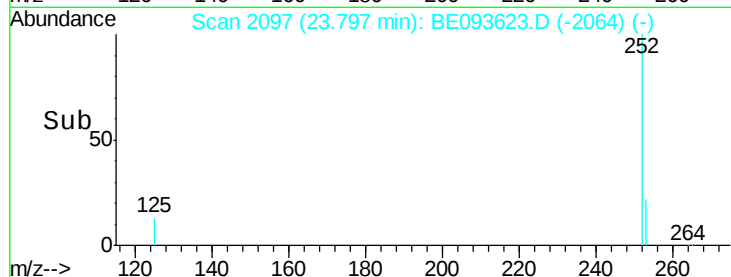
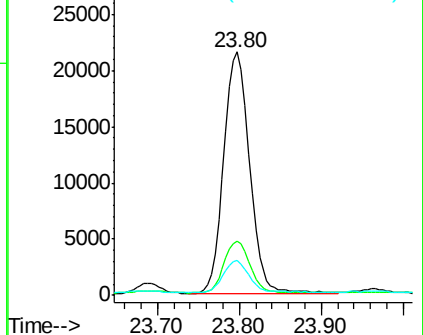
125 14.4 14.6 21.8#



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: 1.079 ng

RT: 26.57 min Scan# 2702

Delta R.T. -0.00 min

Lab File: BE093623.D

Acq: 2 Aug 2017 12:34

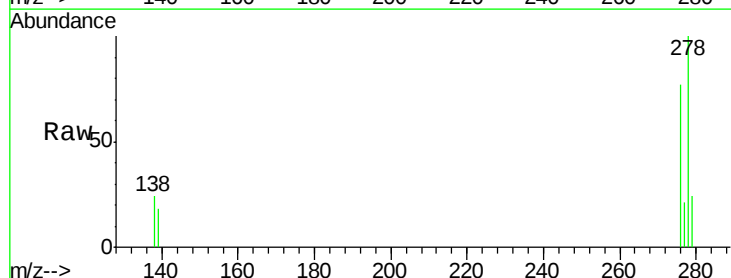
Tgt Ion:278 Resp: 61008

Ion Ratio Lower Upper

278 100

139 18.2 21.4 32.0#

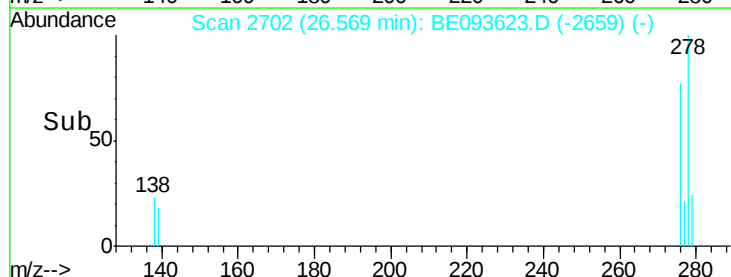
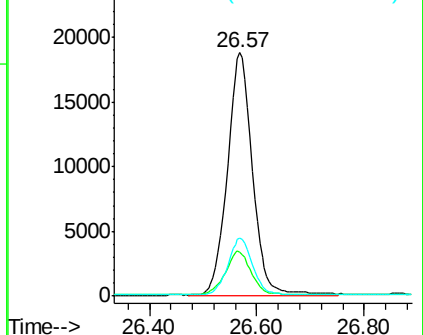
279 24.0 22.2 33.2

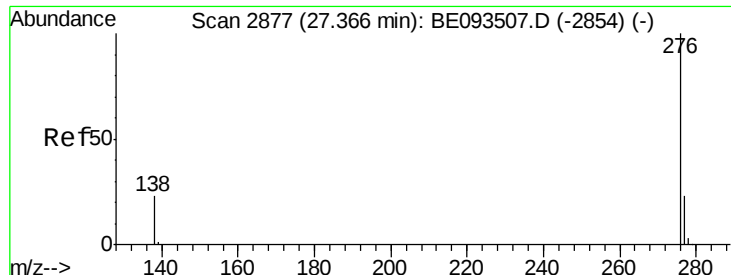


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(g,h,i)perylene

Concen: 0.487 ng

RT: 27.36 min Scan# 2876

Delta R.T. -0.00 min

Lab File: BE093623.D

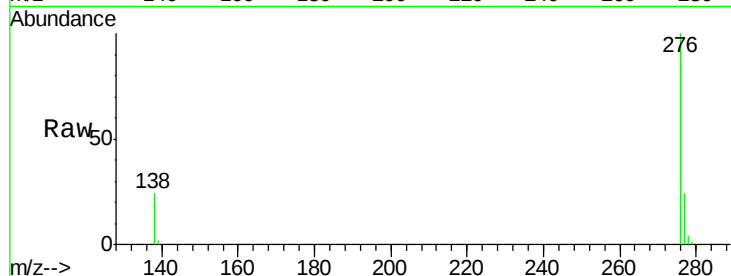
Acq: 2 Aug 2017 12:34

Instrument :

BNA_E

ClientSampleId :

0550DL



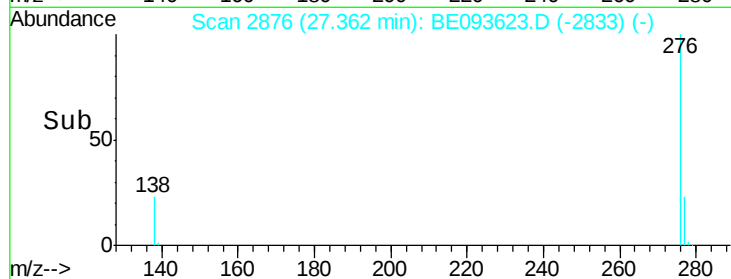
Tgt Ion: 276 Resp: 27925

Ion Ratio Lower Upper

276 100

277 24.1 21.2 31.8

138 24.1 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

