

Data Path : Z:\HPCHEM1\BNA E\DATA\BE092317\  
 Data File : BE094084.D  
 Acq On : 23 Sep 2017 18:53  
 Operator : SJ/JU  
 Sample : I5340-01  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Sep 25 08:02:44 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Sep 25 07:59:29 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.91  | 152  | 1227     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.69 | 136  | 7330     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.51 | 164  | 5378     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.23 | 188  | 18057    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.39 | 240  | 19631    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.90 | 264  | 14596    | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.50  | 112 | 1854  | 0.22 | ng | 0.00 |
| 5) Phenol-d6                | 7.09  | 99  | 2566  | 0.35 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 9.06  | 82  | 1860  | 0.29 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.27 | 152 | 3562  | 0.29 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 16.00 | 330 | 1914  | 0.47 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.13 | 172 | 5048  | 0.29 | ng | 0.00 |
| 25) Fluoranthene-d10        | 19.26 | 212 | 54821 | 0.24 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.84 | 244 | 8265  | 0.27 | ng | 0.00 |

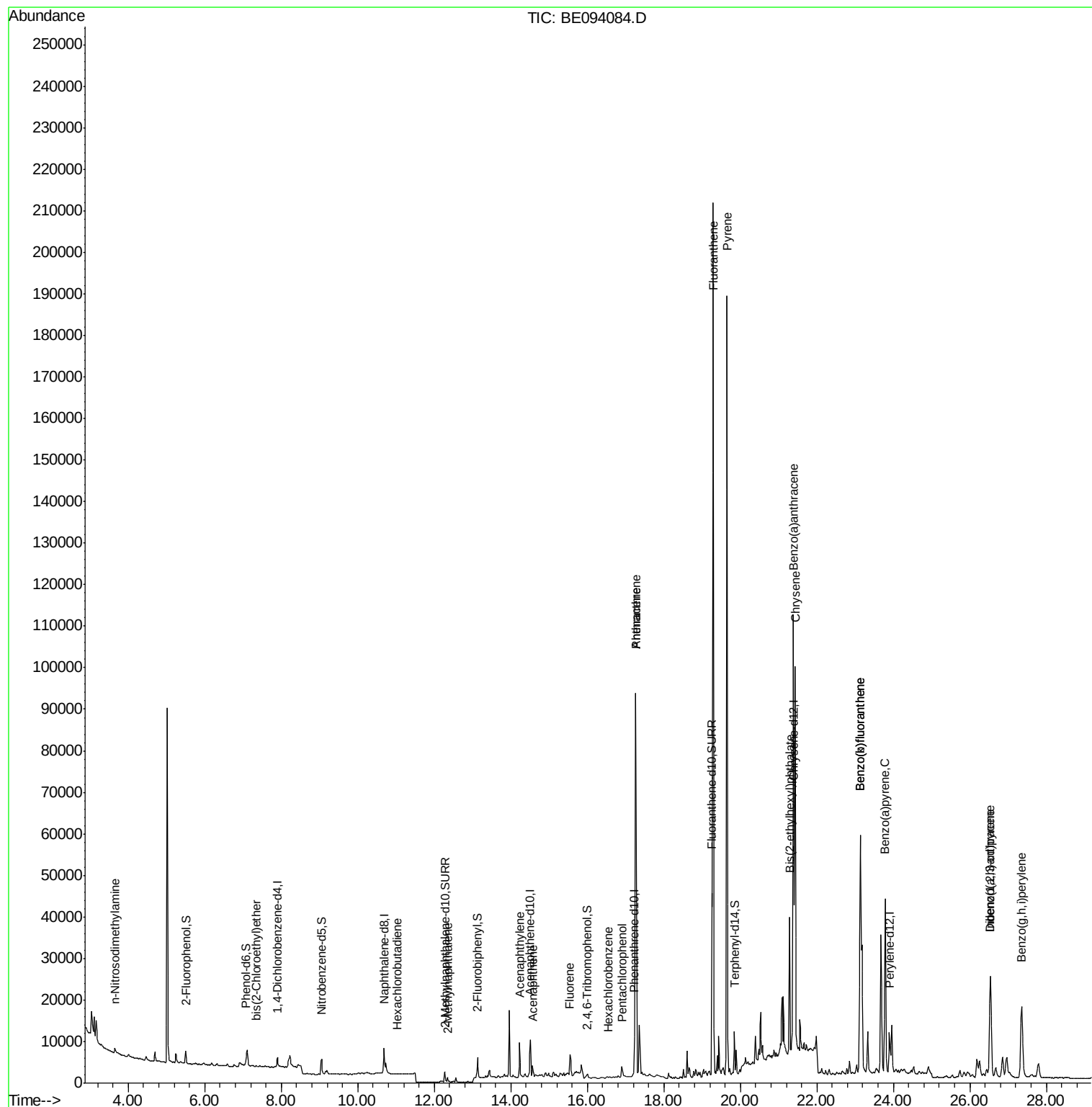
|                                |       |     |        |           |    |      |
|--------------------------------|-------|-----|--------|-----------|----|------|
| Target Compounds               |       |     |        | Qvalue    |    |      |
| 3) n-Nitrosodimethylamine      | 3.65  | 42  | 456    | 0.115     | ng | # 1  |
| 6) bis(2-Chloroethyl)ether     | 7.34  | 93  | 275    | 0.051     | ng | # 1  |
| 9) Naphthalene                 | 10.74 | 128 | 5447   | Below Cal |    | # 95 |
| 10) Hexachlorobutadiene        | 11.02 | 225 | 5      | 0.002     | ng | # 23 |
| 12) 2-Methylnaphthalene        | 12.35 | 142 | 726    | 0.049     | ng | # 91 |
| 16) Acenaphthylene             | 14.23 | 152 | 10399  | 0.384     | ng | 100  |
| 17) Acenaphthene               | 14.57 | 154 | 1326   | 0.074     | ng | 98   |
| 18) Fluorene                   | 15.55 | 166 | 3721   | 0.139     | ng | 89   |
| 21) Hexachlorobenzene          | 16.55 | 284 | 2      | 0.000     | ng | # 38 |
| 22) Pentachlorophenol          | 16.91 | 266 | 2920   | 1.191     | ng | # 73 |
| 23) Phenanthrene               | 17.27 | 178 | 137940 | 2.133     | ng | 98   |
| 24) Anthracene                 | 17.27 | 178 | 137940 | 2.766     | ng | 96   |
| 26) Fluoranthene               | 19.29 | 202 | 187782 | 2.706     | ng | 99   |
| 28) Pyrene                     | 19.65 | 202 | 168097 | 3.095     | ng | 96   |
| 30) Benzo(a)anthracene         | 21.38 | 228 | 101419 | 1.543     | ng | 99   |
| 31) Chrysene                   | 21.44 | 228 | 97337  | 1.511     | ng | 97   |
| 32) Bis(2-ethylhexyl)phthalate | 21.29 | 149 | 43711  | 0.247     | ng | 100  |
| 33) Indeno(1,2,3-cd)pyrene     | 26.54 | 276 | 43270  | 0.869     | ng | 96   |
| 35) Benzo(b)fluoranthene       | 23.13 | 252 | 111327 | 2.107     | ng | 99   |
| 36) Benzo(k)fluoranthene       | 23.13 | 252 | 111327 | 2.100     | ng | 99   |
| 37) Benzo(a)pyrene             | 23.79 | 252 | 65573  | 1.382     | ng | 99   |
| 38) Dibenzo(a,h)anthracene     | 26.55 | 278 | 11727  | 0.309     | ng | # 87 |
| 39) Benzo(g,h,i)perylene       | 27.36 | 276 | 42518  | 1.120     | ng | 99   |

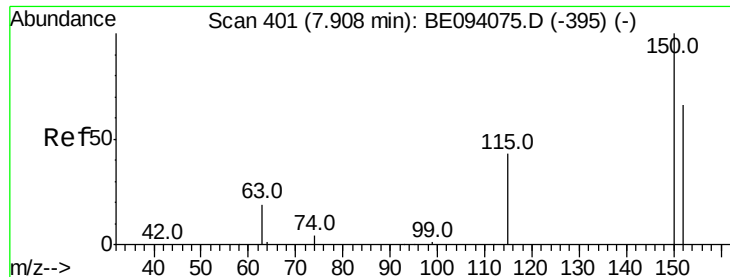
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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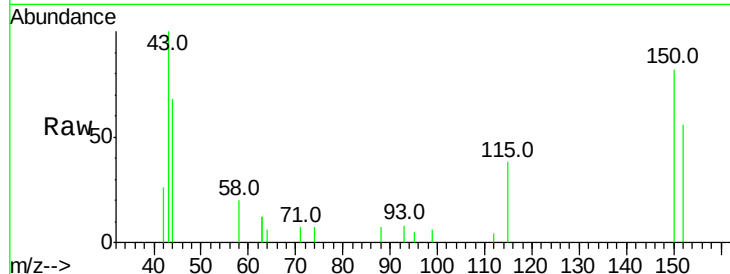


#1

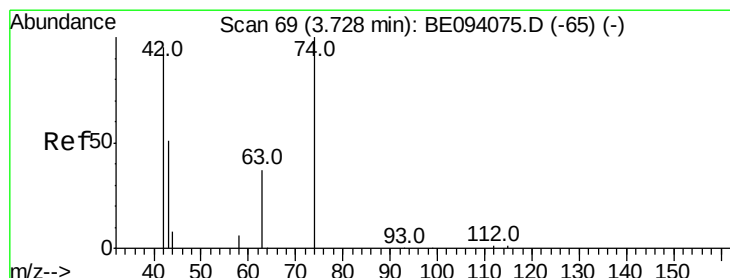
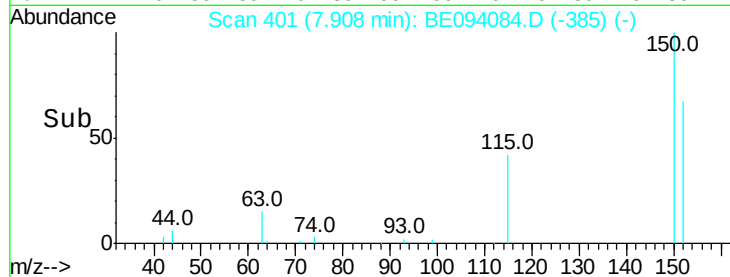
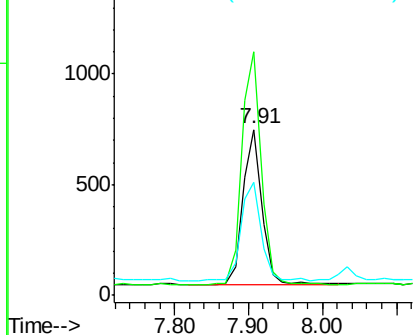
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.91 min Scan# 401  
Delta R.T. -0.00 min  
Lab File: BE094084.D  
Acq: 23 Sep 2017 18:53

Instrument :  
BNA\_E  
ClientSampled :

Tot Ion:152 Resp: 1227  
Ion Ratio Lower Upper  
152 100  
150 146.7 117.2 175.8  
115 67.7 57.0 85.6



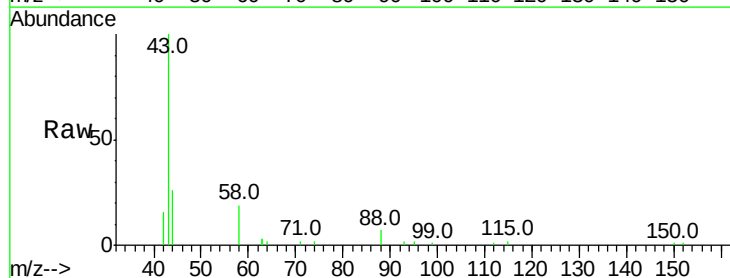
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



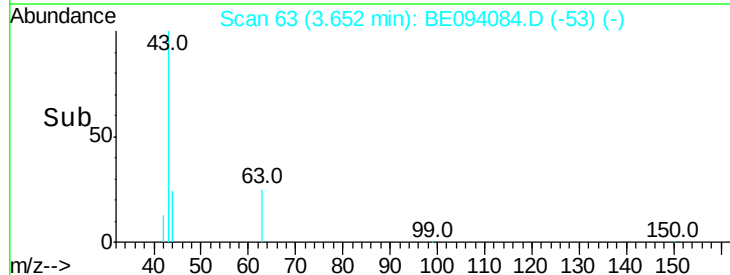
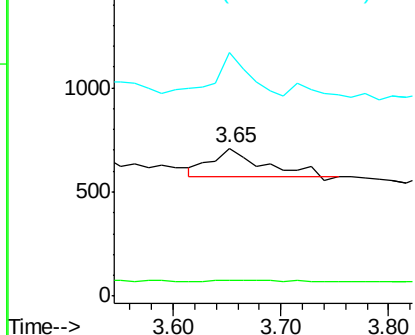
#3

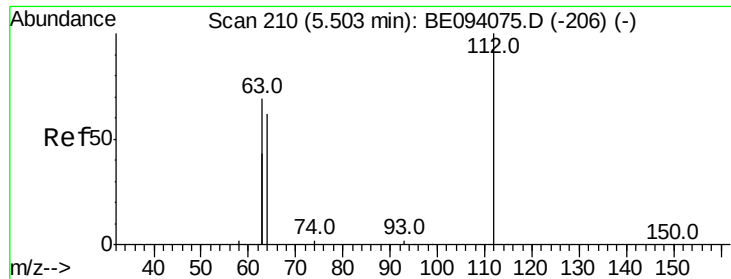
n-Nitrosodimethylamine  
Concen: 0.115 ng  
RT: 3.65 min Scan# 63  
Delta R.T. -0.08 min  
Lab File: BE094084.D  
Acq: 23 Sep 2017 18:53

Tgt Ion: 42 Resp: 456  
Ion Ratio Lower Upper  
42 100  
74 4.6 100.3 150.5#  
44 91.0 17.0 25.4#



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: 0.216 ng

RT: 5.50 min Scan# 210

Delta R.T. -0.00 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

Instrument :

BNA\_E

ClientSampleId :

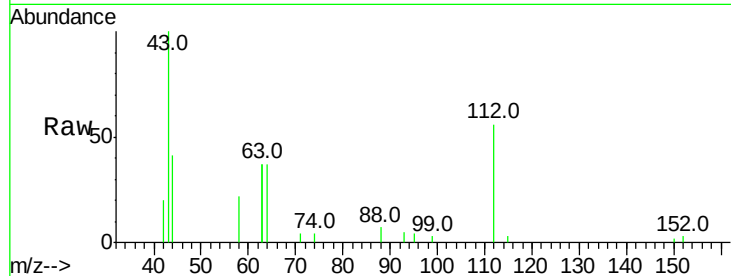
Tot Ion: 112 Resp: 1854

Ion Ratio Lower Upper

112 100

64 72.7 60.1 90.1

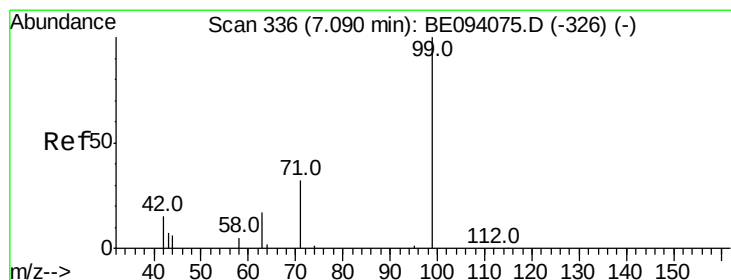
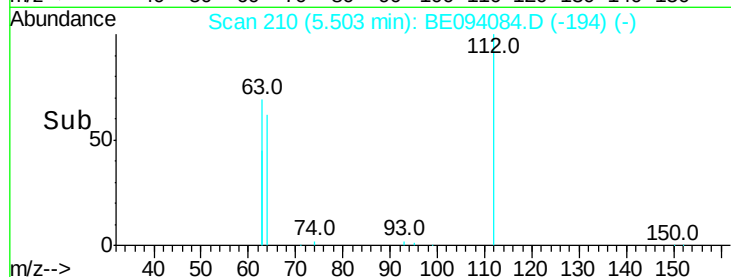
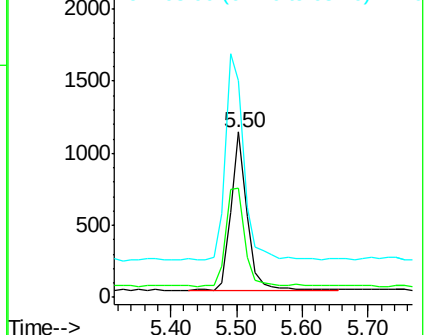
63 149.9 116.8 175.2



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 0.354 ng

RT: 7.09 min Scan# 336

Delta R.T. -0.00 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

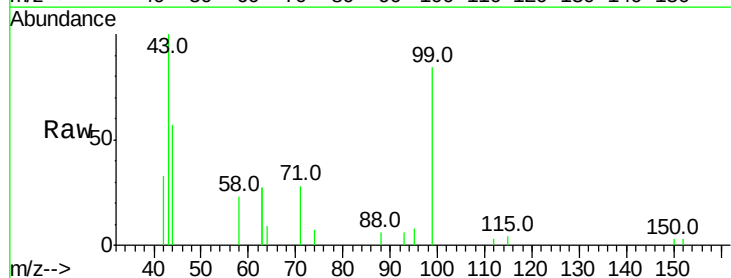
Tgt Ion: 99 Resp: 2566

Ion Ratio Lower Upper

99 100

42 31.4 20.2 30.2#

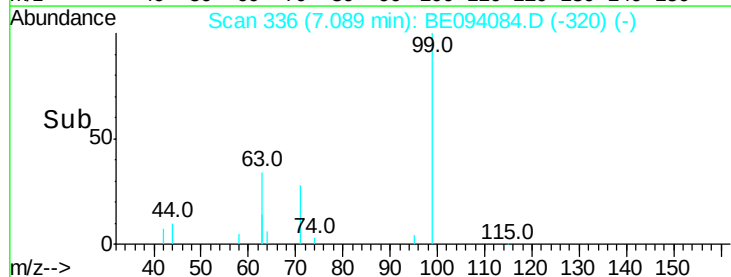
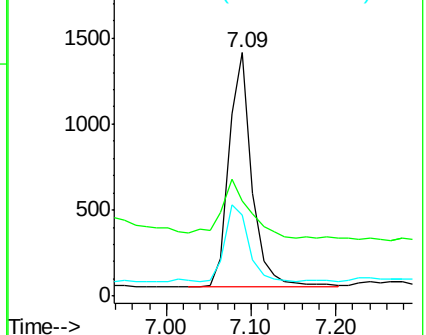
71 34.8 28.4 42.6

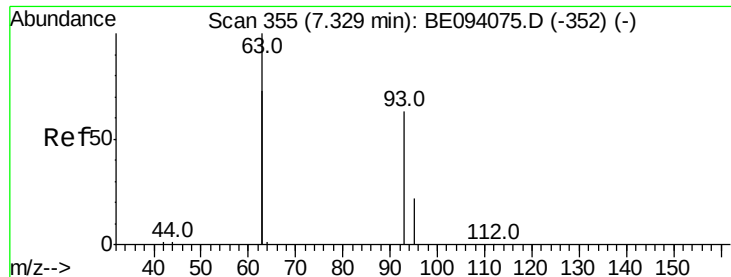


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#6

bis(2-Chloroethyl)ether

Concen: 0.051 ng

RT: 7.34 min Scan# 356

Delta R.T. 0.01 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

Instrument :

BNA\_E

ClientSampleId :

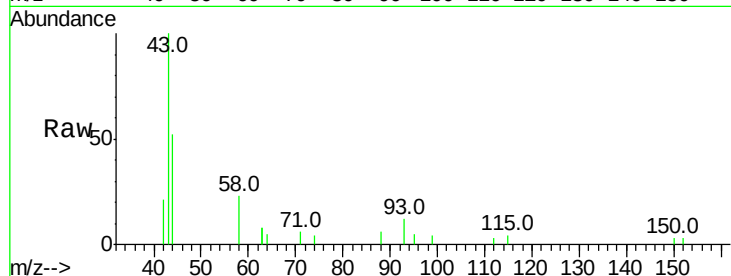
Tot Ion: 93 Resp: 275

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

400

300

200

100

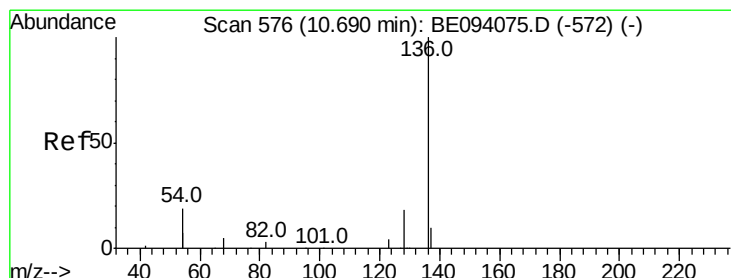
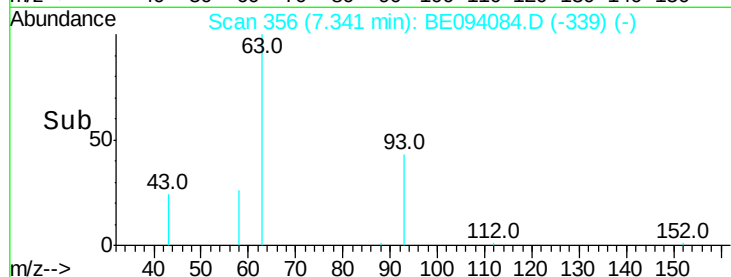
0

7.30

7.40

7.50

Time-->



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.69 min Scan# 576

Delta R.T. -0.00 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

Tgt Ion: 136 Resp: 7330

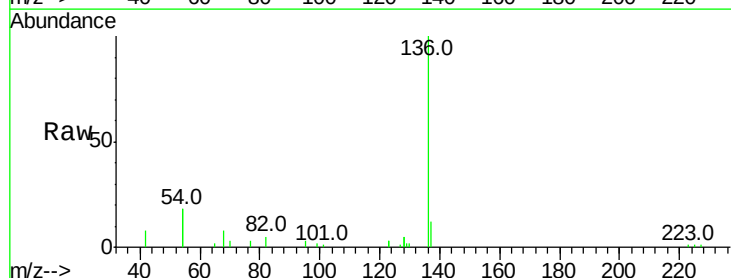
Ion Ratio Lower Upper

136 100

137 11.8 9.5 14.3

54 35.0 29.1 43.7

68 7.6 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

6000

5000

4000

3000

2000

1000

0

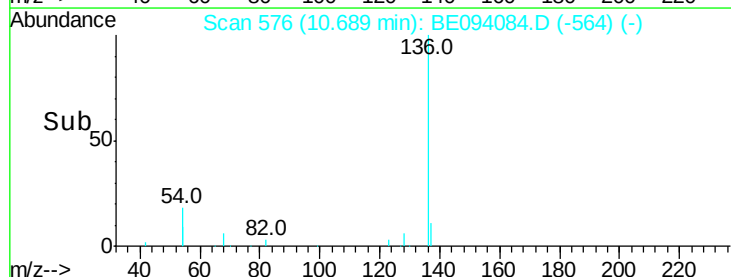
10.50

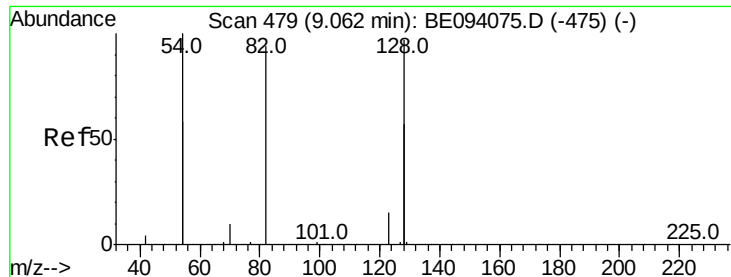
10.60

10.70

10.80

Time-->





#8

Nitrobenzene-d5

Concen: 0.285 ng

RT: 9.06 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

Instrument :

BNA\_E

ClientSampleId :

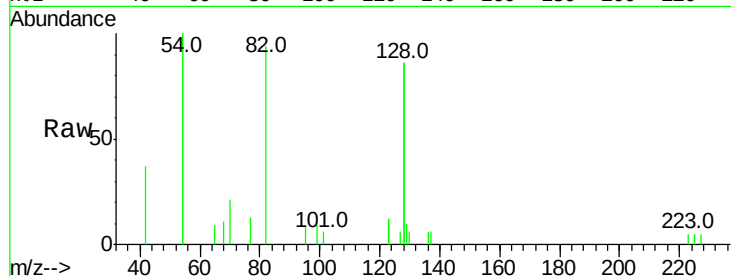
Tot Ion: 82 Resp: 1860

Ion Ratio Lower Upper

82 100

128 183.3 150.0 225.0

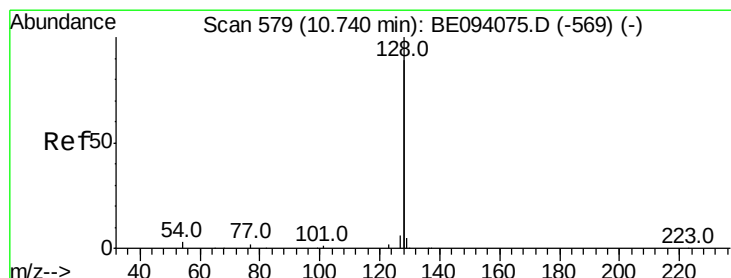
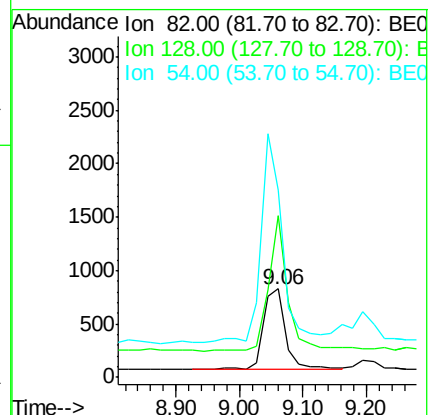
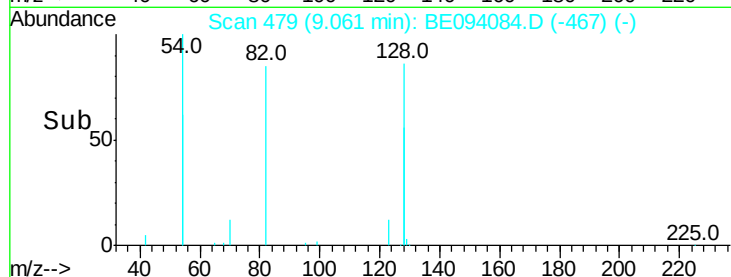
54 212.8 154.2 231.4



Abundance Ion 82.00 (81.70 to 82.70): BE094084.D (-467) (-)

Ion 128.00 (127.70 to 128.70): BE094084.D (-467) (-)

Ion 54.00 (53.70 to 54.70): BE094084.D (-467) (-)



#9

Naphthalene

Concen: Below Cal

RT: 10.74 min Scan# 579

Delta R.T. -0.00 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

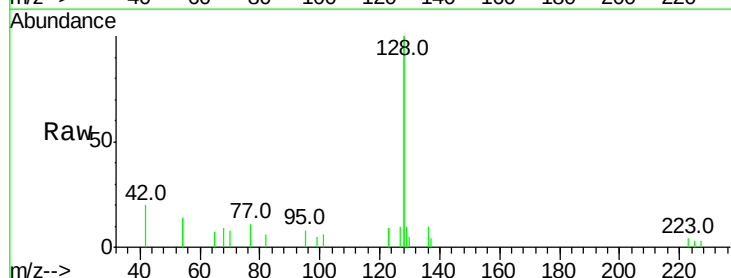
Tgt Ion: 128 Resp: 5447

Ion Ratio Lower Upper

128 100

129 5.1 2.6 3.8#

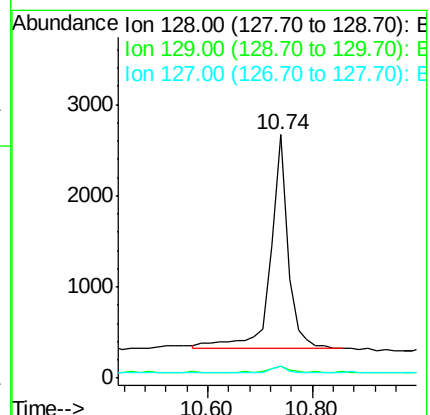
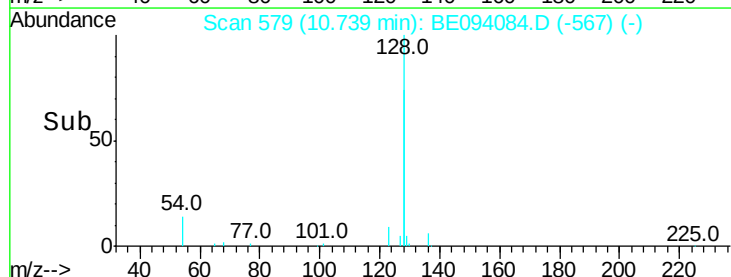
127 4.9 2.8 4.2#

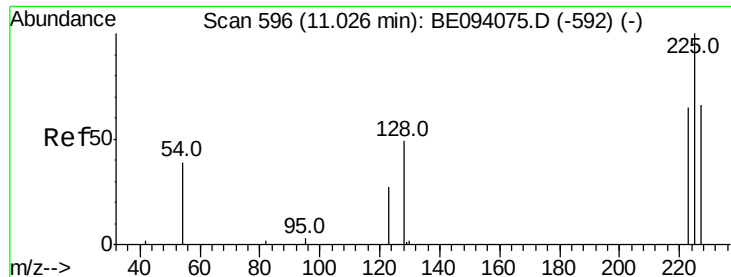


Abundance Ion 128.00 (127.70 to 128.70): BE094084.D (-567) (-)

Ion 129.00 (128.70 to 129.70): BE094084.D (-567) (-)

Ion 127.00 (126.70 to 127.70): BE094084.D (-567) (-)

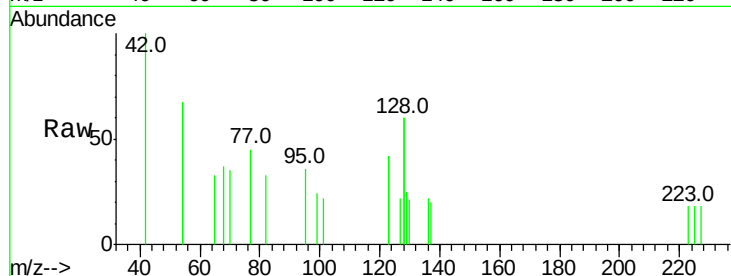




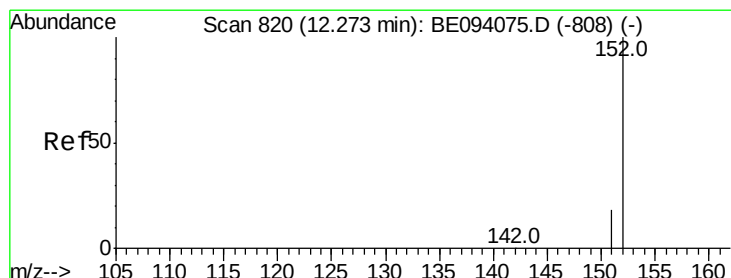
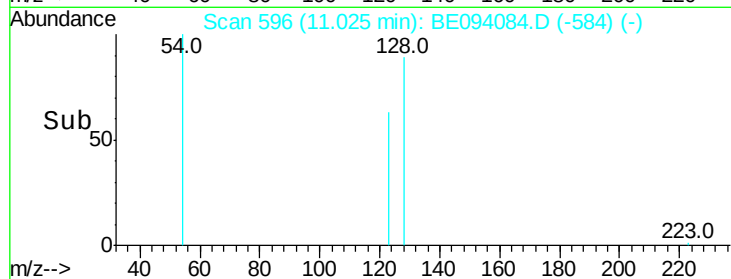
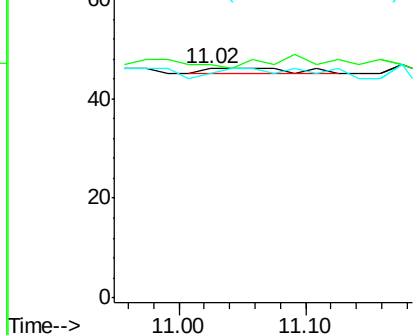
#10  
Hexachlorobutadiene  
Concen: 0.002 ng  
RT: 11.02 min Scan# 596  
Delta R.T. -0.00 min  
Lab File: BE094084.D  
Acq: 23 Sep 2017 18:53

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:225 Resp: 5  
Ion Ratio Lower Upper  
225 100  
223 0.0 53.0 79.6#  
227 120.0 51.4 77.2#

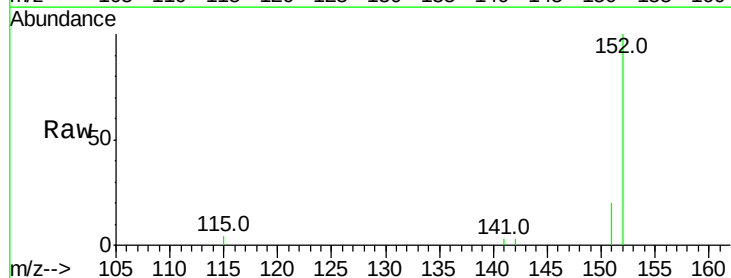


Abundance Ion 225.00 (224.70 to 225.70): E  
Ion 223.00 (222.70 to 223.70): E  
Ion 227.00 (226.70 to 227.70): E

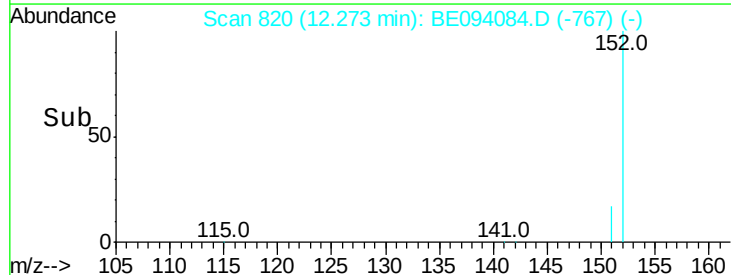
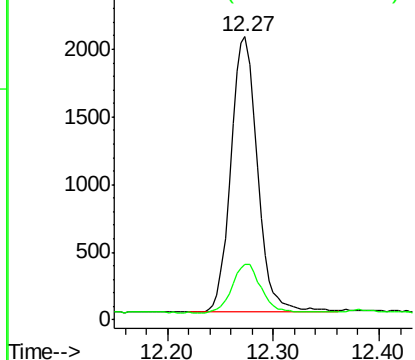


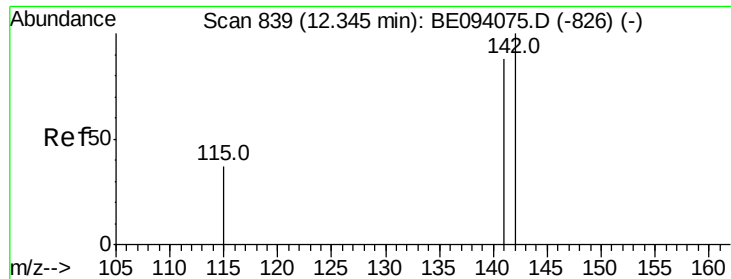
#11  
2-Methylnaphthalene-d10  
Concen: 0.287 ng  
RT: 12.27 min Scan# 820  
Delta R.T. 0.00 min  
Lab File: BE094084.D  
Acq: 23 Sep 2017 18:53

Tgt Ion:152 Resp: 3562  
Ion Ratio Lower Upper  
152 100  
151 19.2 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E





#12

2-Methylnaphthalene

Concen: 0.049 ng

RT: 12.35 min Scan# 839

Delta R.T. 0.00 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

Instrument :

BNA\_E

ClientSampleId :

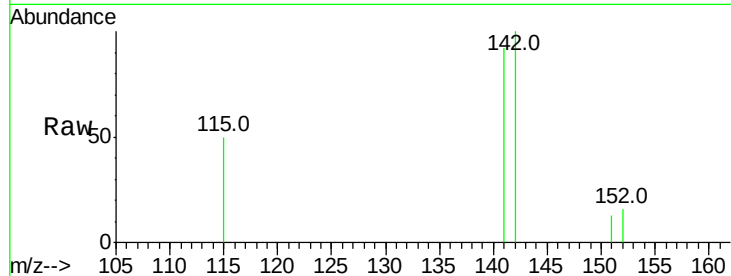
Tot Ion:142 Resp: 726

Ion Ratio Lower Upper

142 100

141 92.3 70.4 105.6

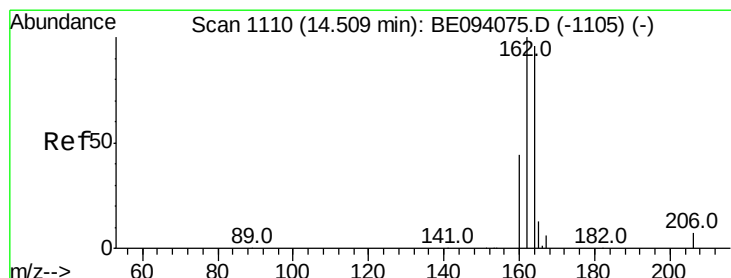
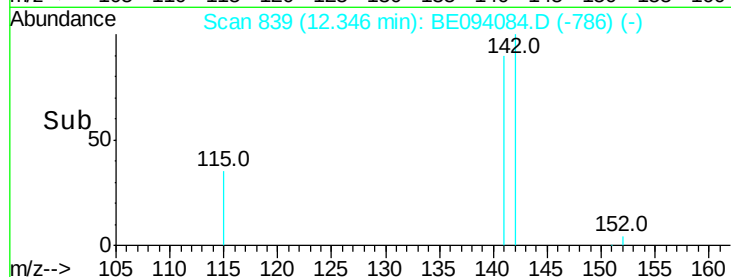
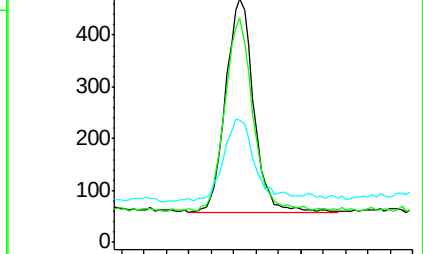
115 50.2 31.7 47.5#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.51 min Scan# 1110

Delta R.T. 0.00 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

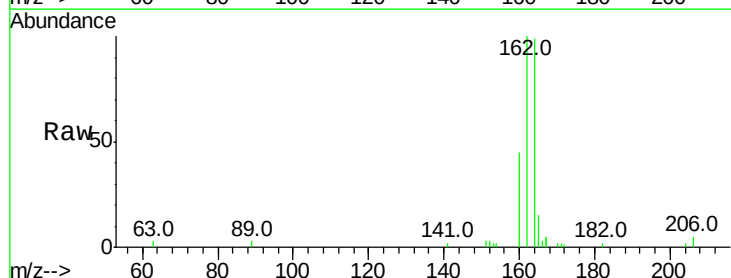
Tgt Ion:164 Resp: 5378

Ion Ratio Lower Upper

164 100

162 101.3 83.1 124.7

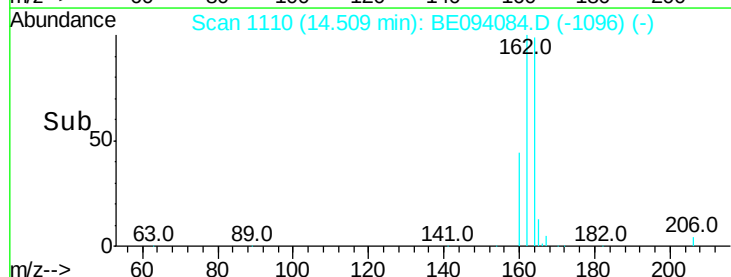
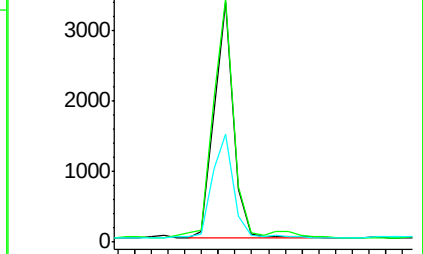
160 45.2 37.1 55.7



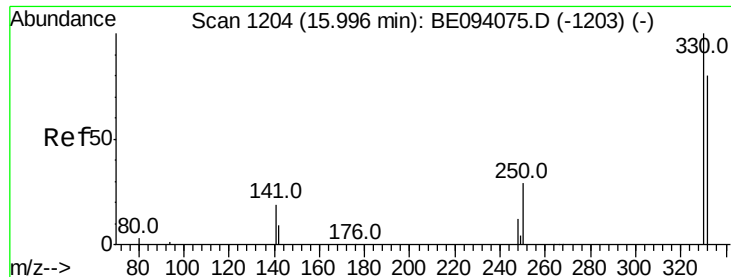
Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



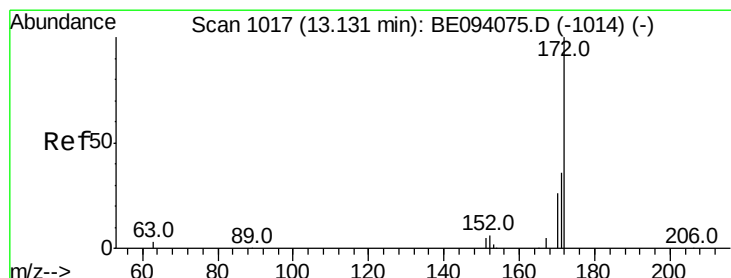
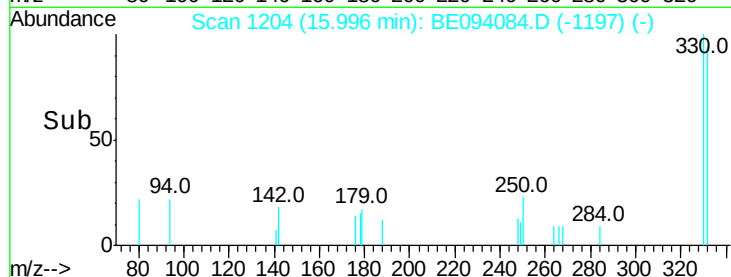
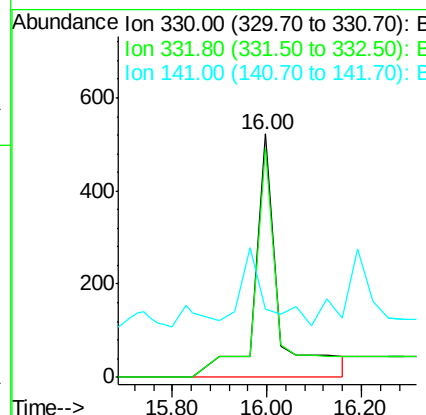
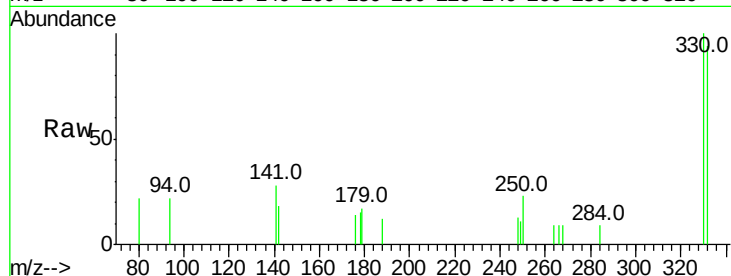




#14  
 2,4,6-Tribromophenol  
 Concen: 0.469 ng  
 RT: 16.00 min Scan# 1204  
 Delta R.T. -0.00 min  
 Lab File: BE094084.D  
 Acq: 23 Sep 2017 18:53

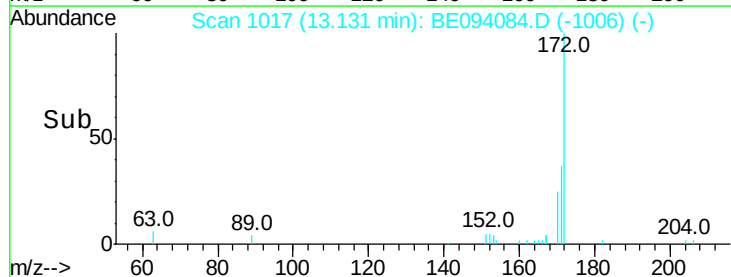
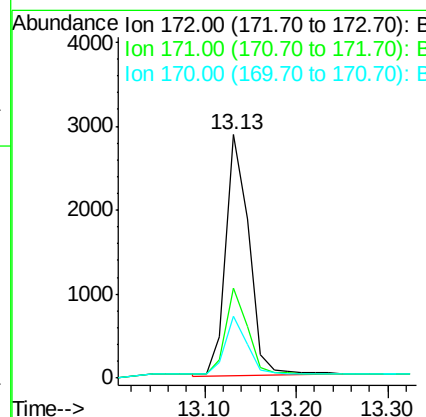
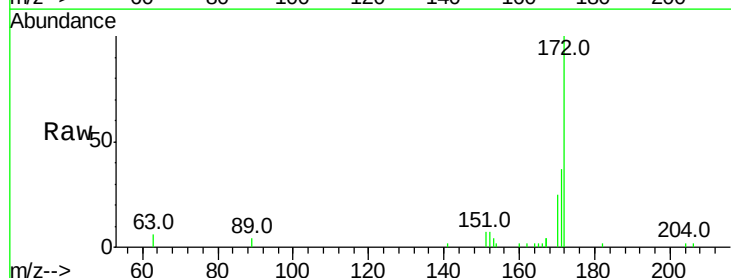
Instrument :  
 BNA\_E  
 ClientSampleId :

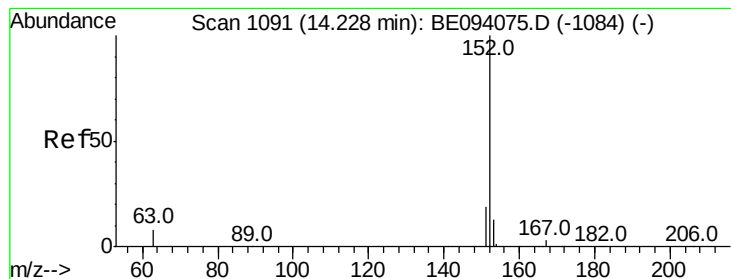
Tot Ion:330 Resp: 1914  
 Ion Ratio Lower Upper  
 330 100  
 332 96.4 152.7 229.1#  
 141 0.0 33.7 50.5#



#15  
 2-Fluorobiphenyl  
 Concen: 0.286 ng  
 RT: 13.13 min Scan# 1017  
 Delta R.T. 0.00 min  
 Lab File: BE094084.D  
 Acq: 23 Sep 2017 18:53

Tgt Ion:172 Resp: 5048  
 Ion Ratio Lower Upper  
 172 100  
 171 37.1 29.9 44.9  
 170 25.3 21.8 32.8





#16

Acenaphthylene

Concen: 0.384 ng

RT: 14.23 min Scan# 1091

Delta R.T. 0.00 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

Instrument :

BNA\_E

ClientSampleId :

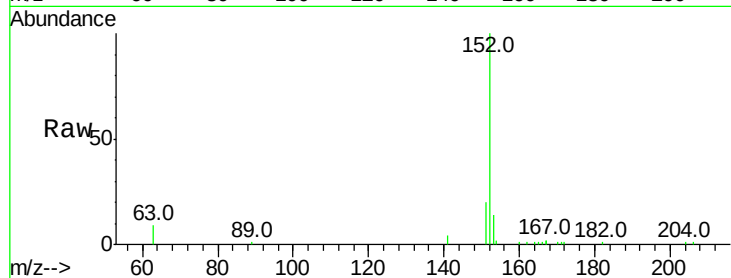
Tot Ion:152 Resp: 10399

Ion Ratio Lower Upper

152 100

151 19.6 15.7 23.5

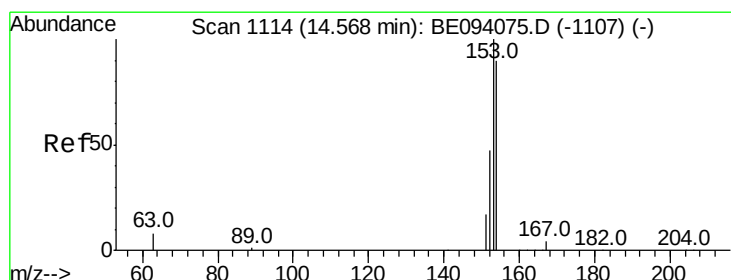
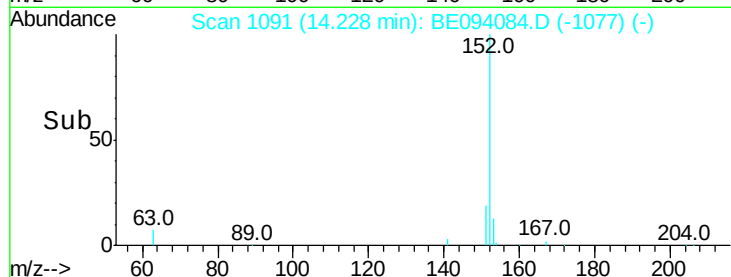
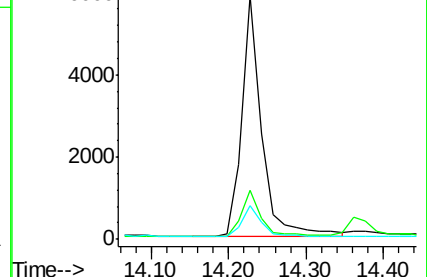
153 13.5 10.5 15.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#17

Acenaphthene

Concen: 0.074 ng

RT: 14.57 min Scan# 1114

Delta R.T. 0.00 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

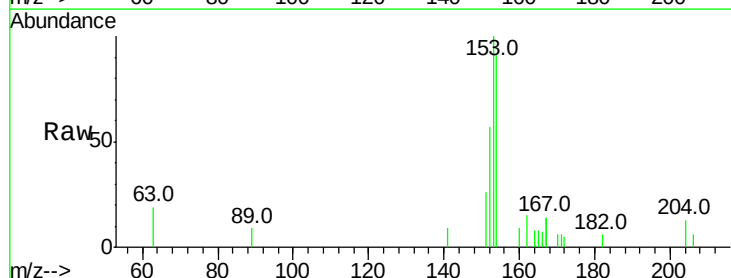
Tgt Ion:154 Resp: 1326

Ion Ratio Lower Upper

154 100

153 109.7 89.2 133.8

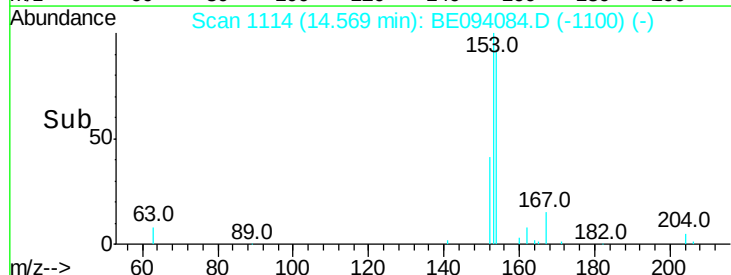
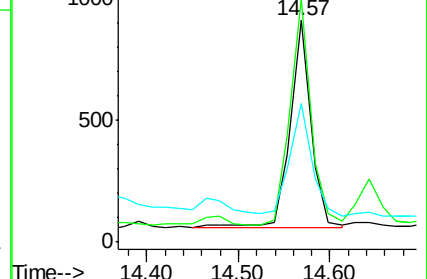
152 54.2 42.0 63.0

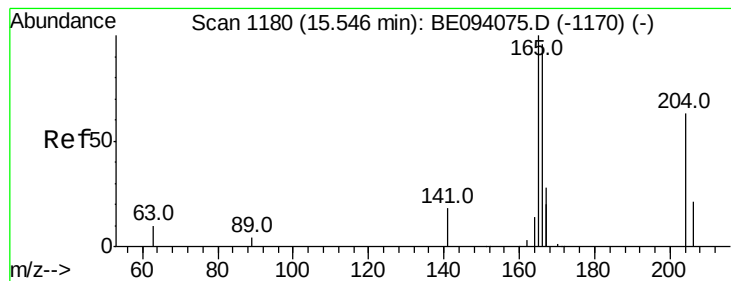


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#18

Fluorene

Concen: 0.139 ng

RT: 15.55 min Scan# 1180

Delta R.T. 0.00 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

Instrument :

BNA\_E

ClientSampled :

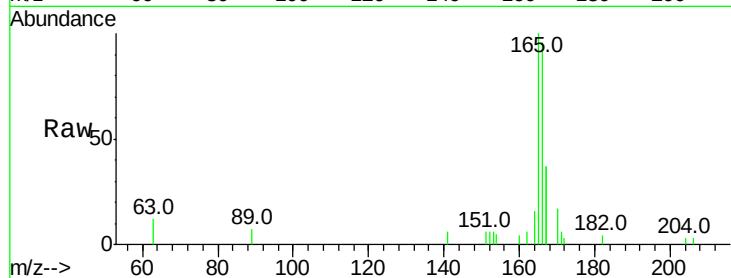
Tot Ion:166 Resp: 3721

Ion Ratio Lower Upper

166 100

165 106.6 77.8 116.6

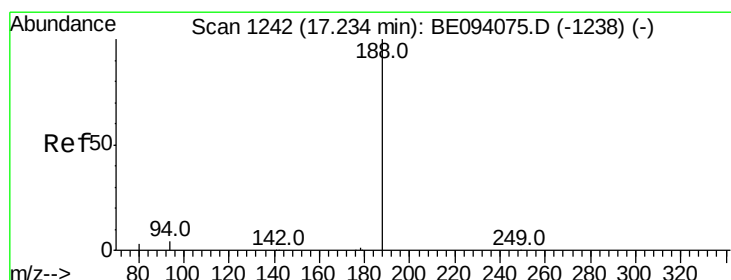
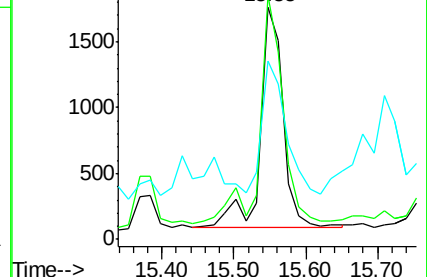
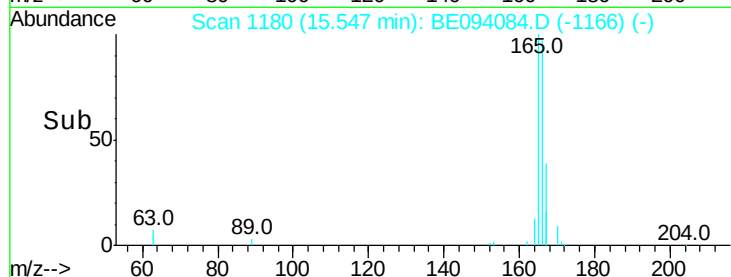
167 62.9 42.4 63.6



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: 17.23 min Scan# 1242

Delta R.T. -0.00 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

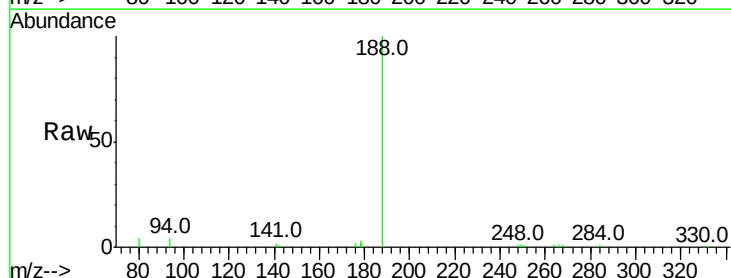
Tgt Ion:188 Resp: 18057

Ion Ratio Lower Upper

188 100

94 4.4 3.9 5.9

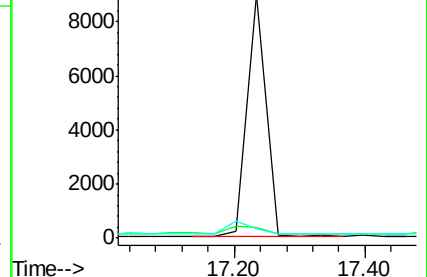
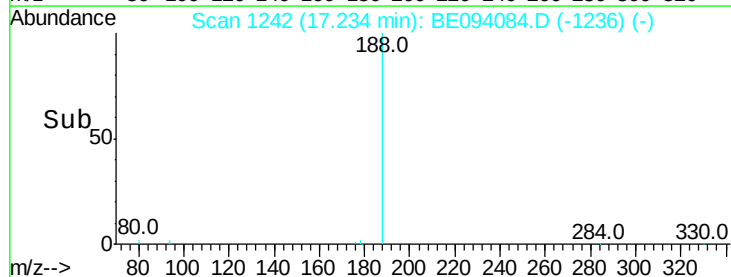
80 3.9 3.6 5.4

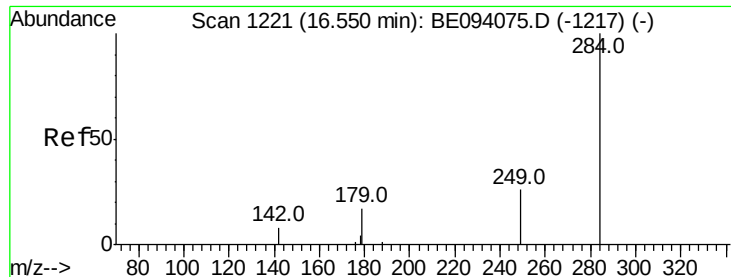


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

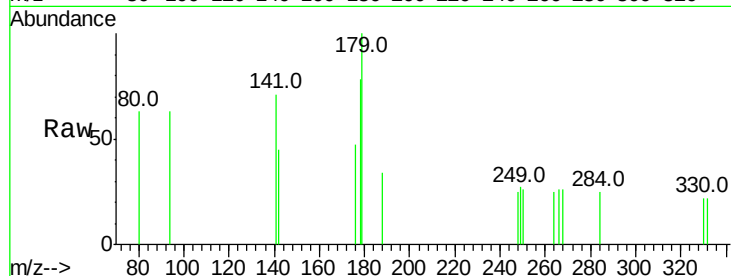




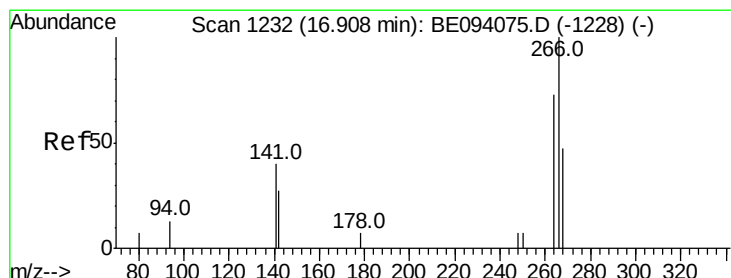
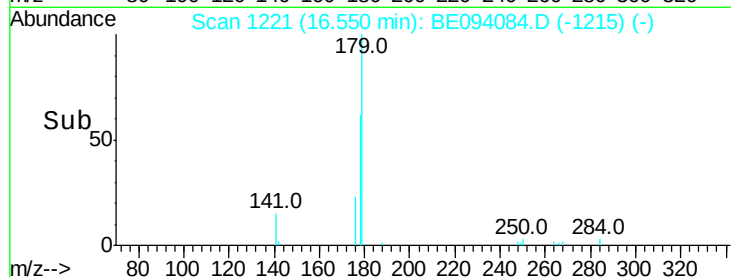
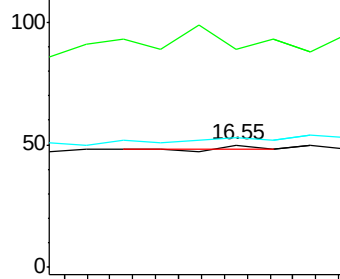
#21  
Hexachlorobenzene  
Concen: 0.000 ng  
RT: 16.55 min Scan# 1221  
Delta R.T. -0.00 min  
Lab File: BE094084.D  
Acq: 23 Sep 2017 18:53

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:284 Resp: 2  
Ion Ratio Lower Upper  
284 100  
142 0.0 22.1 33.1#  
249 0.0 34.8 52.2#

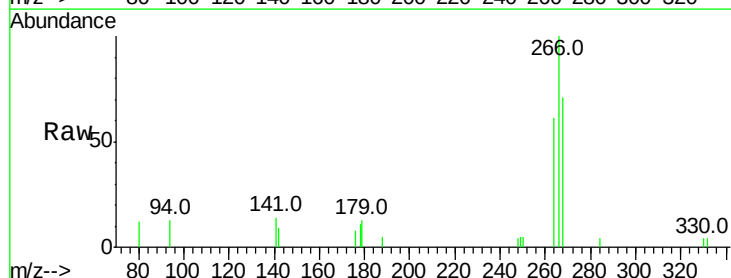


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

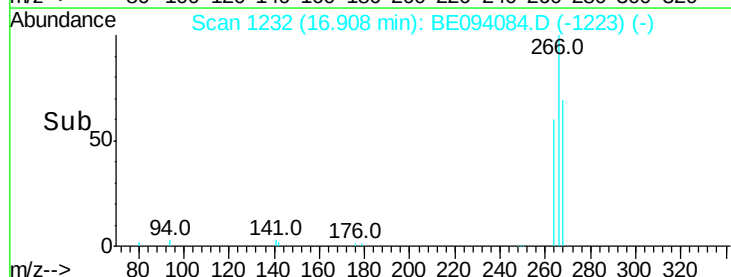
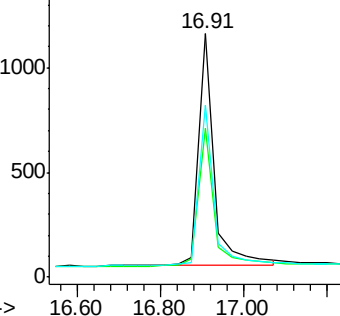


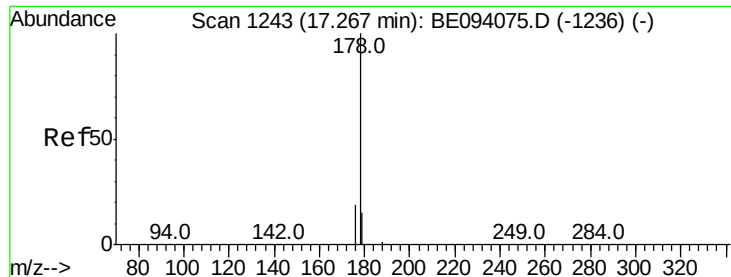
#22  
Pentachlorophenol  
Concen: 1.191 ng  
RT: 16.91 min Scan# 1232  
Delta R.T. -0.00 min  
Lab File: BE094084.D  
Acq: 23 Sep 2017 18:53

Tgt Ion:266 Resp: 2920  
Ion Ratio Lower Upper  
266 100  
264 61.2 72.5 108.7#  
268 70.8 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: 2.133 ng

RT: 17.27 min Scan# 1243

Delta R.T. -0.00 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

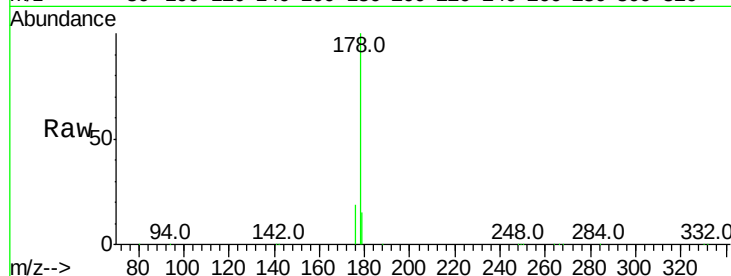
Instrument :

BNA\_E

ClientSampleId :

Tot Ion:178 Resp: 137940

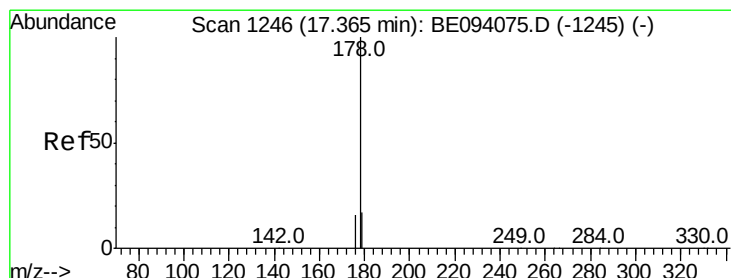
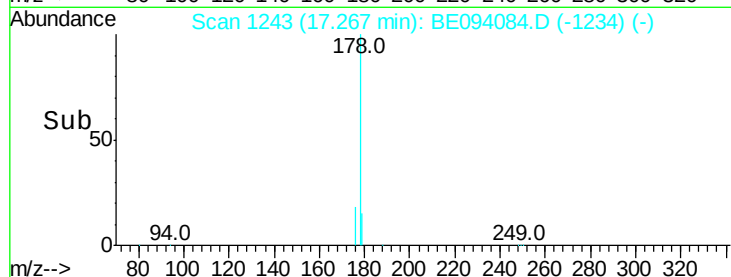
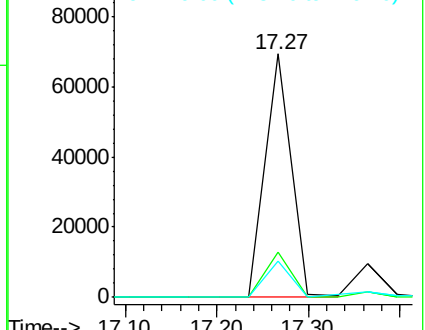
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 18.5  | 15.1  | 22.7  |
| 179 | 15.8  | 11.8  | 17.6  |



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



#24

Anthracene

Concen: 2.766 ng

RT: 17.27 min Scan# 1243

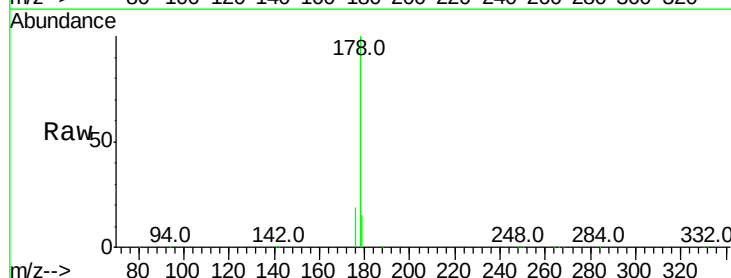
Delta R.T. -0.10 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

Tgt Ion:178 Resp: 137940

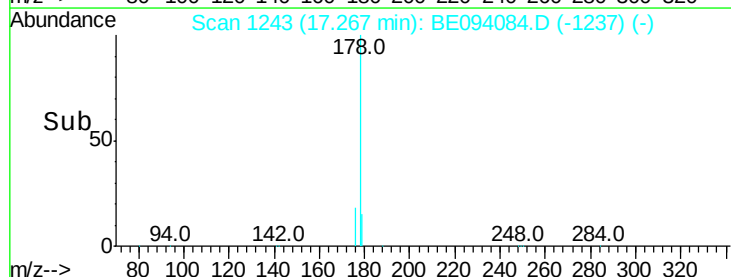
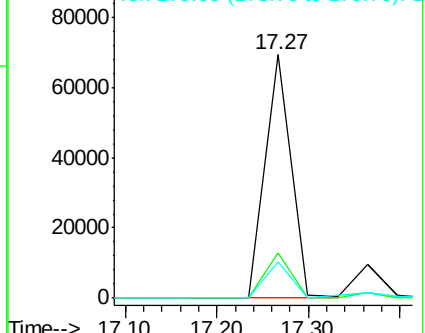
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 18.5  | 12.8  | 19.2  |
| 179 | 15.8  | 13.0  | 19.6  |

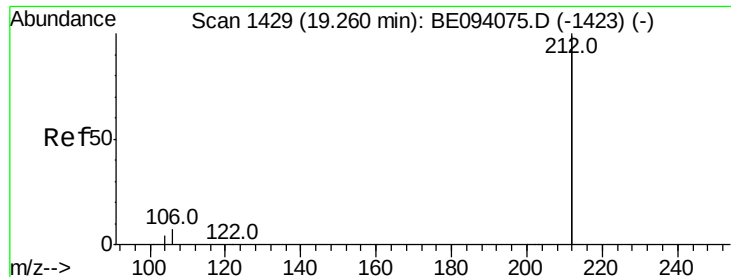


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.237 ng

RT: 19.26 min Scan# 1429

Delta R.T. 0.00 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

Instrument :

BNA\_E

ClientSampleId :

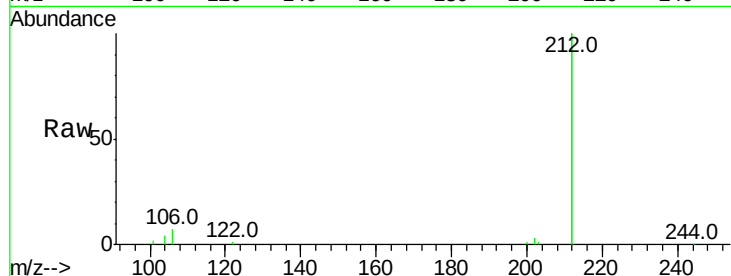
Tot Ion:212 Resp: 54821

Ion Ratio Lower Upper

212 100

106 3.5 2.8 4.2

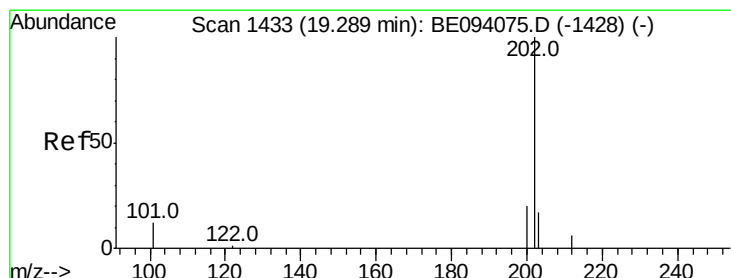
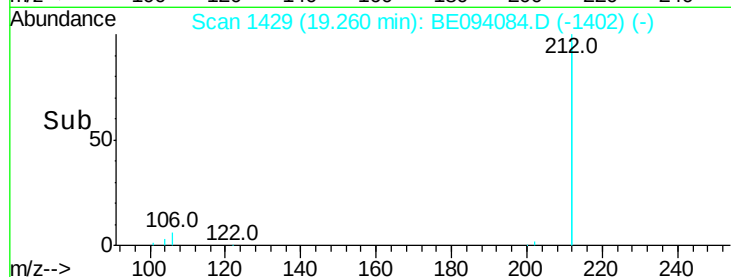
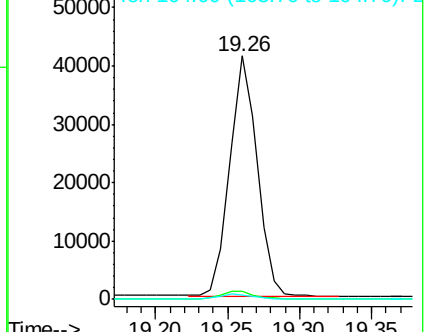
104 2.1 1.6 2.4



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: 2.706 ng

RT: 19.29 min Scan# 1433

Delta R.T. 0.00 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

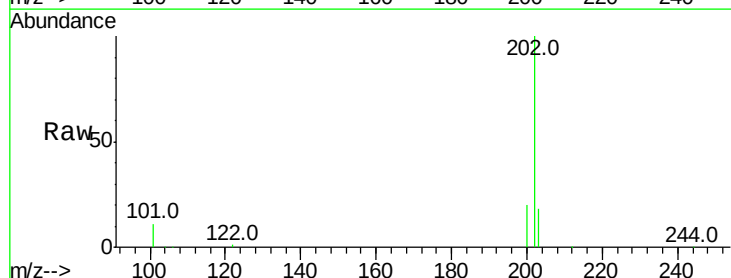
Tgt Ion:202 Resp: 187782

Ion Ratio Lower Upper

202 100

101 12.1 9.8 14.8

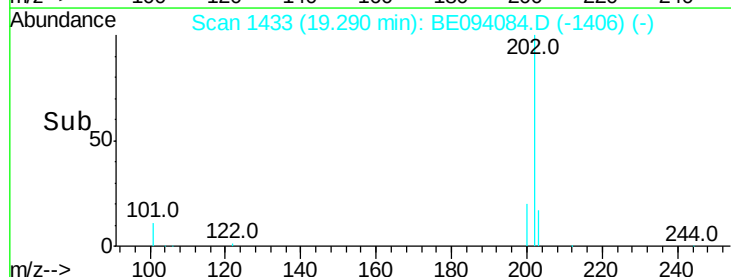
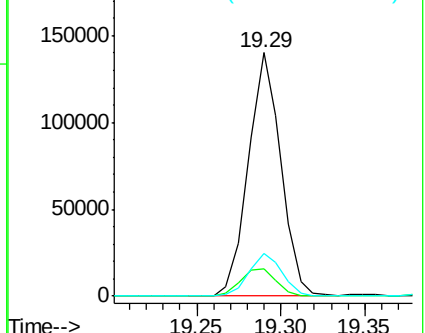
203 17.6 13.7 20.5

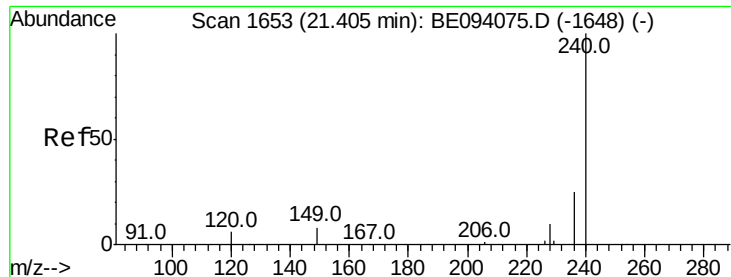


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.39 min Scan# 1652

Delta R.T. -0.01 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

Instrument :

BNA\_E

ClientSampleId :

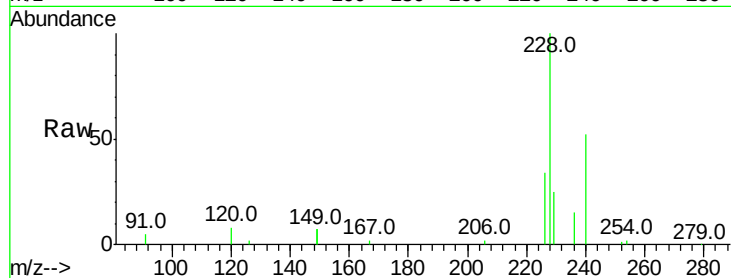
Tot Ion:240 Resp: 19631

Ion Ratio Lower Upper

240 100

120 16.1 5.5 8.3#

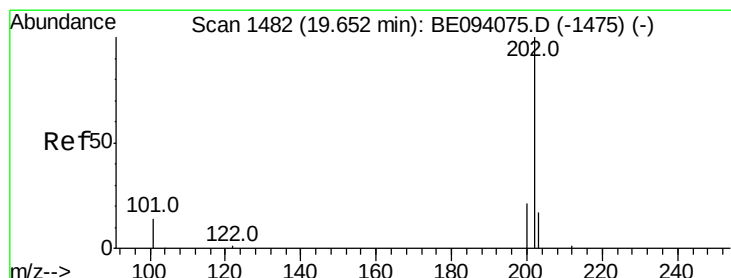
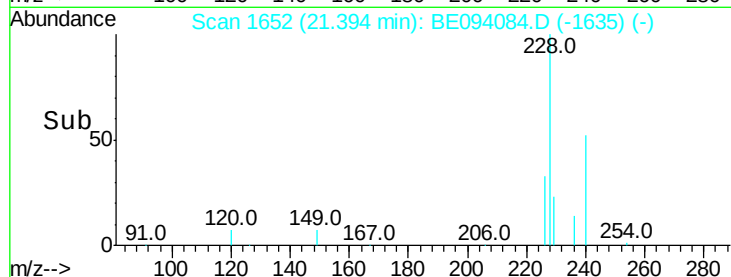
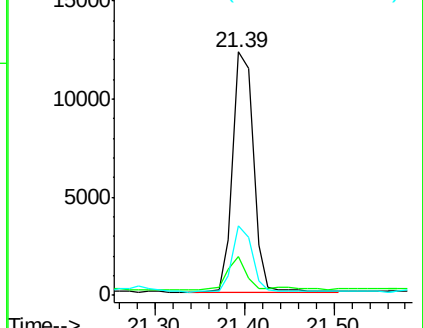
236 28.6 20.7 31.1



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

Pyrene

Concen: 3.095 ng

RT: 19.65 min Scan# 1482

Delta R.T. 0.00 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

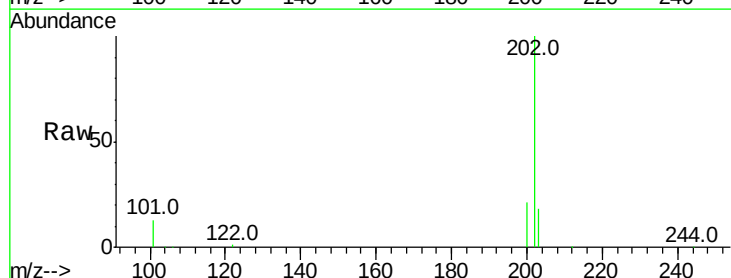
Tgt Ion:202 Resp: 168097

Ion Ratio Lower Upper

202 100

200 20.9 16.6 25.0

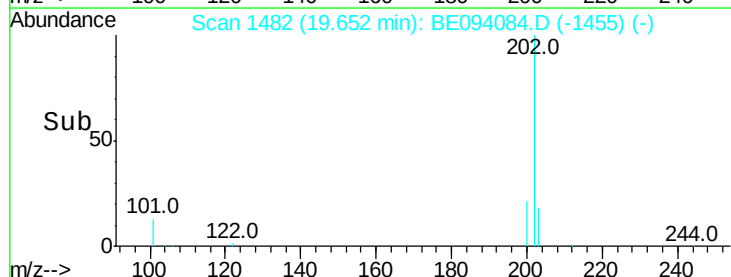
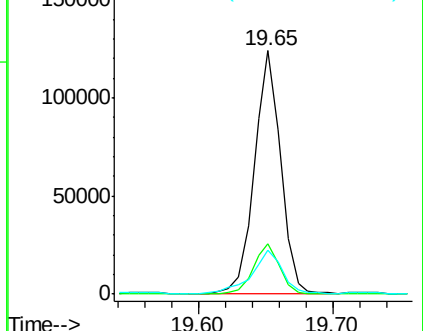
203 20.6 13.8 20.8

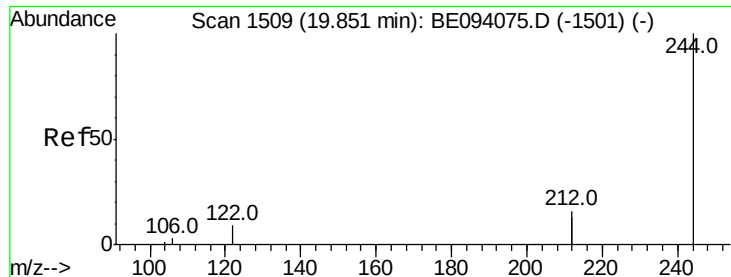


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.269 ng

RT: 19.84 min Scan# 1508

Delta R.T. -0.01 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

Instrument :

BNA\_E

ClientSampleId :

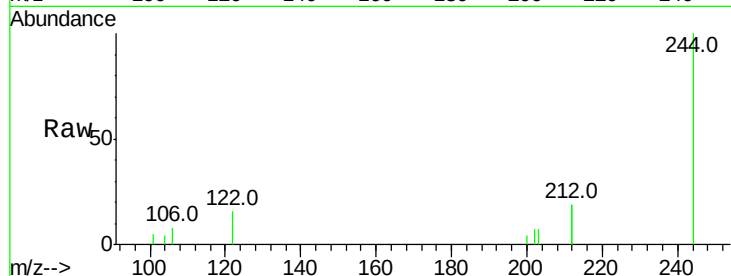
Tot Ion:244 Resp: 8265

Ion Ratio Lower Upper

244 100

212 38.5 25.4 38.0#

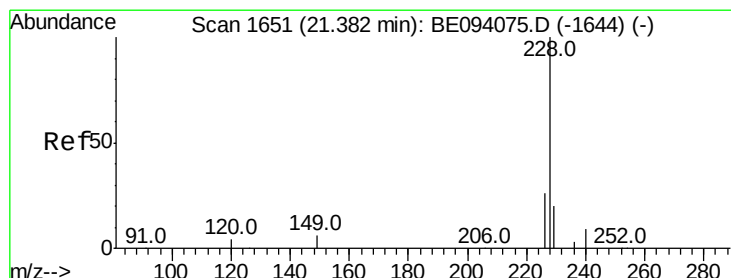
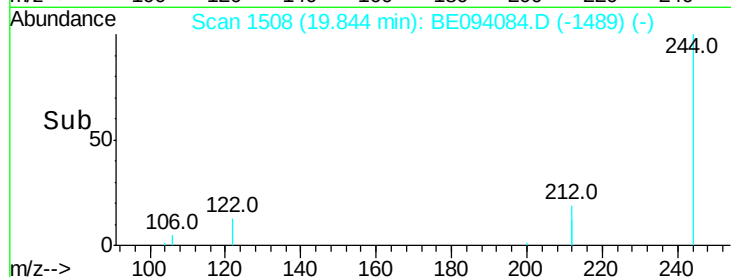
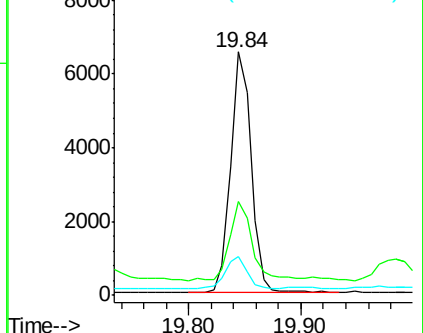
122 15.8 8.1 12.1#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 1.543 ng

RT: 21.38 min Scan# 1651

Delta R.T. -0.00 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

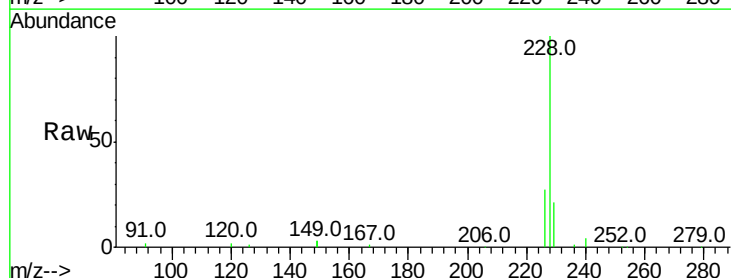
Tgt Ion:228 Resp: 101419

Ion Ratio Lower Upper

228 100

226 26.7 21.4 32.0

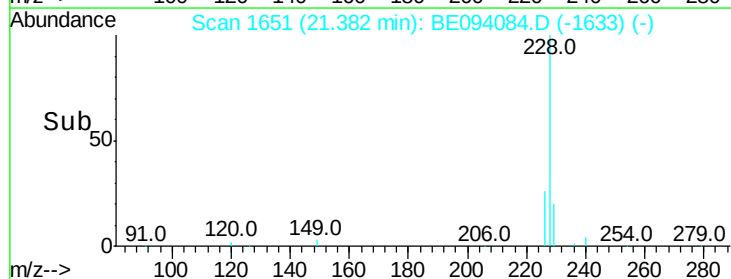
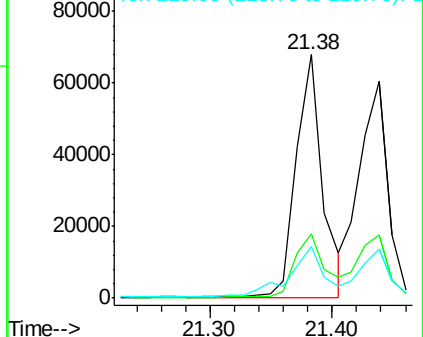
229 21.2 16.4 24.6



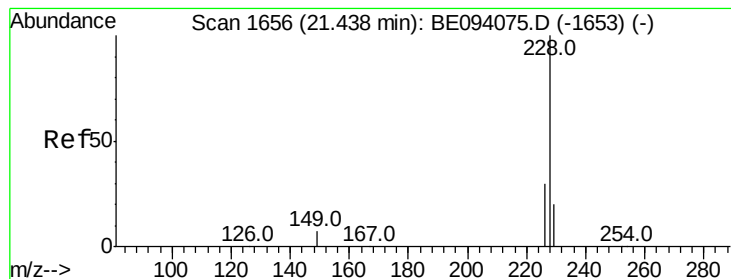
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E







#31

Chrysene

Concen: 1.511 ng

RT: 21.44 min Scan# 1656

Delta R.T. -0.00 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

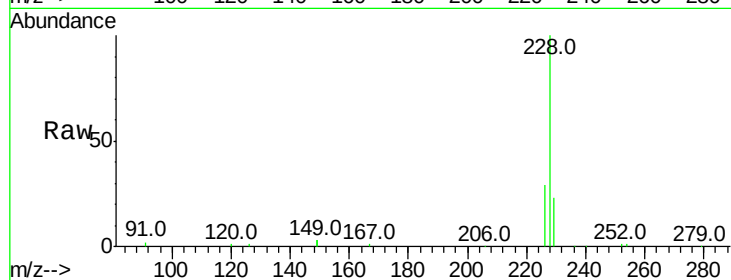
Instrument :

BNA\_E

ClientSampleId :

Tot Ion:228 Resp: 97337

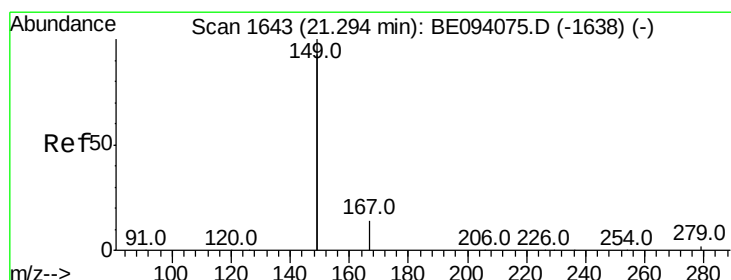
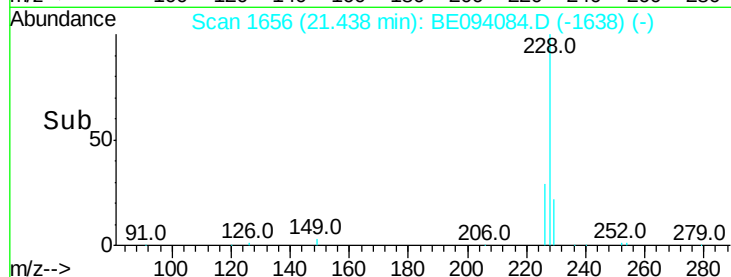
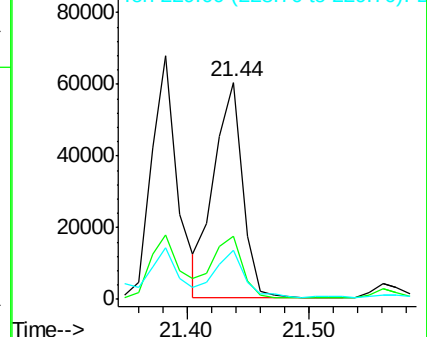
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 29.0  | 23.6  | 35.4  |
| 229 | 22.8  | 16.4  | 24.6  |



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: 0.247 ng

RT: 21.29 min Scan# 1643

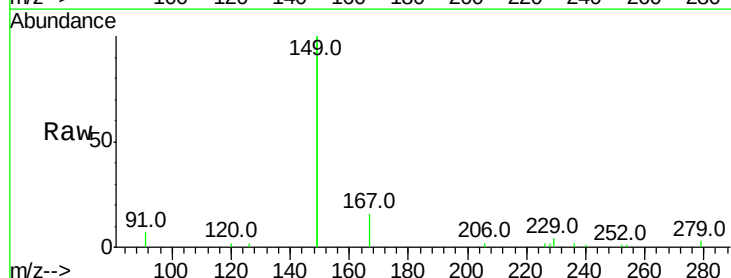
Delta R.T. -0.00 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

Tgt Ion:149 Resp: 43711

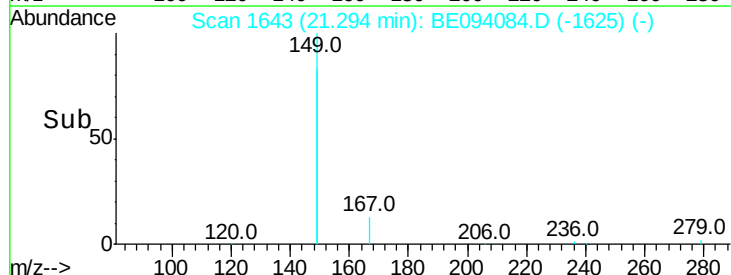
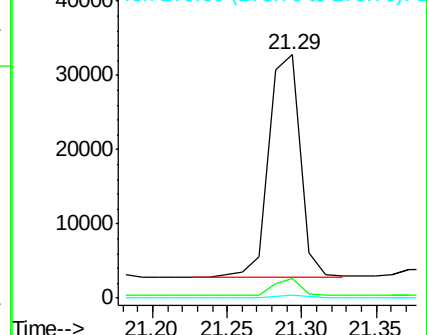
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 6.7   | 5.4   | 8.0   |
| 279 | 0.9   | 0.7   | 1.1   |

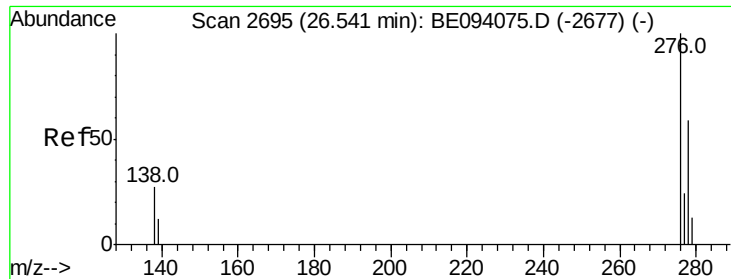


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.869 ng

RT: 26.54 min Scan# 2694

Delta R.T. -0.00 min

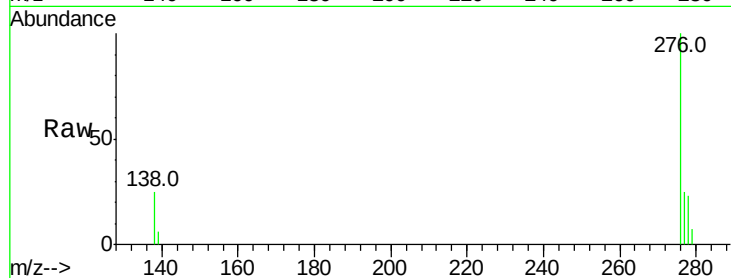
Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

Instrument :

BNA\_E

ClientSampleId :



Tot Ion:276 Resp: 43270

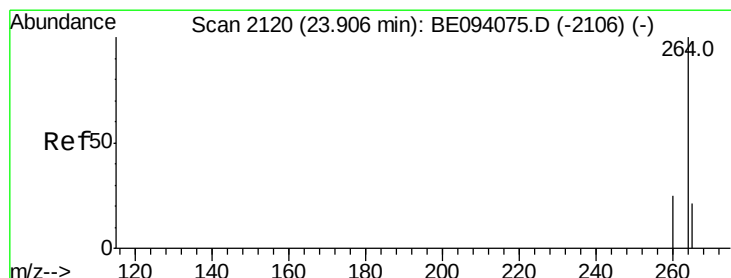
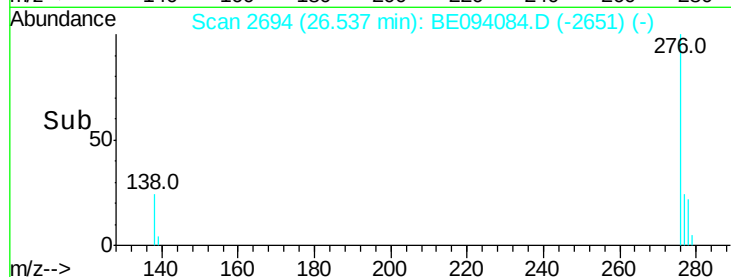
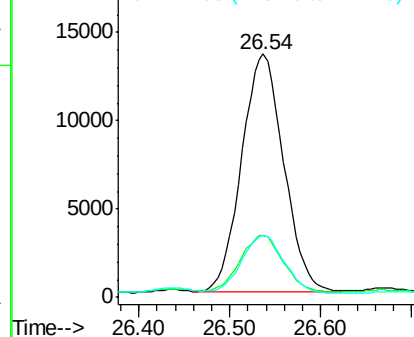
Ion Ratio Lower Upper

276 100

138 24.7 22.5 33.7

277 24.7 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

Perylene-d12

Concen: 0.400 ng

RT: 23.90 min Scan# 2119

Delta R.T. -0.00 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

Tgt Ion:264 Resp: 14596

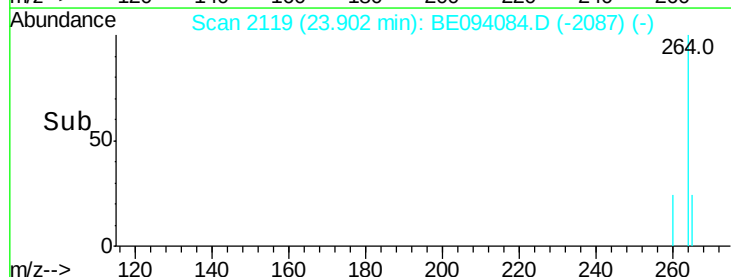
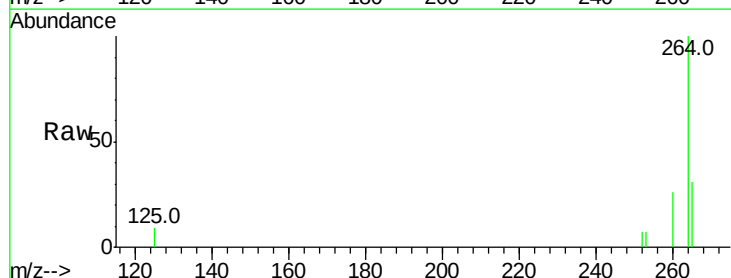
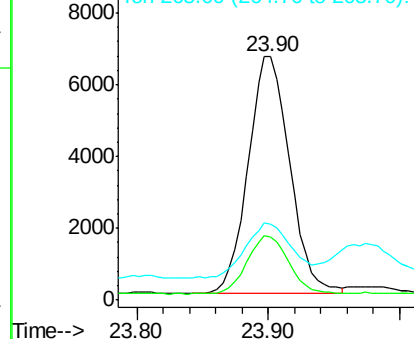
Ion Ratio Lower Upper

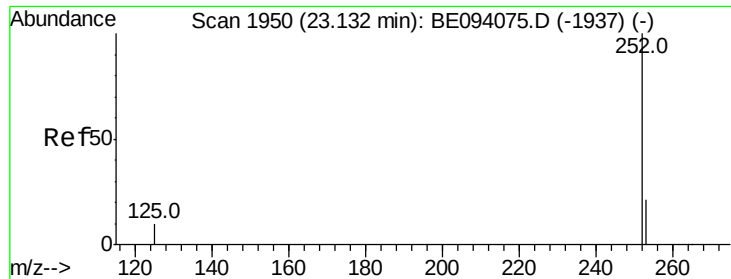
264 100

260 25.8 20.5 30.7

265 31.2 22.8 34.2

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

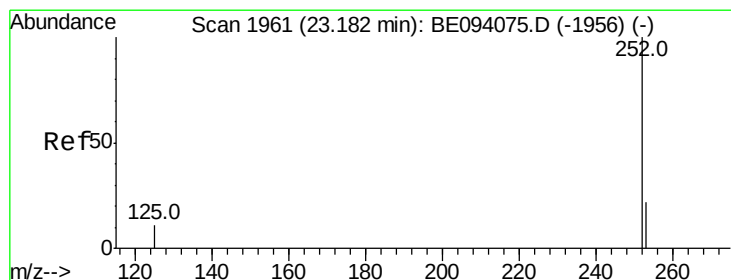
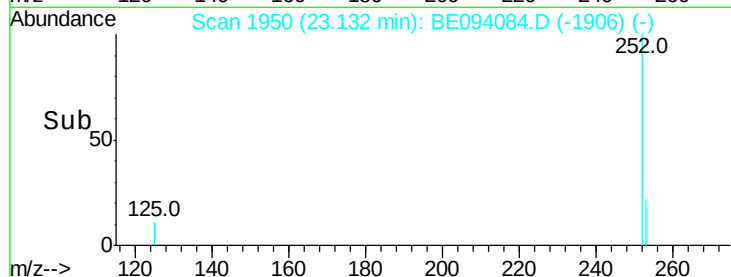
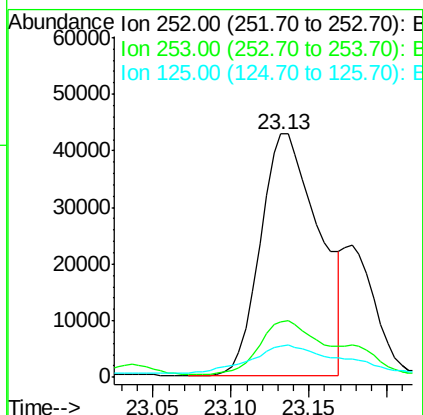
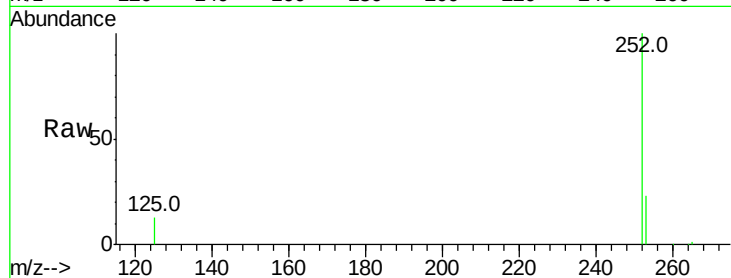




#35  
Benzo(b)fluoranthene  
Concen: 2.107 ng  
RT: 23.13 min Scan# 1950  
Delta R.T. 0.00 min  
Lab File: BE094084.D  
Acq: 23 Sep 2017 18:53

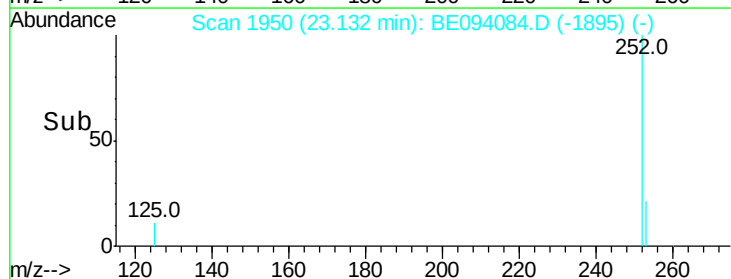
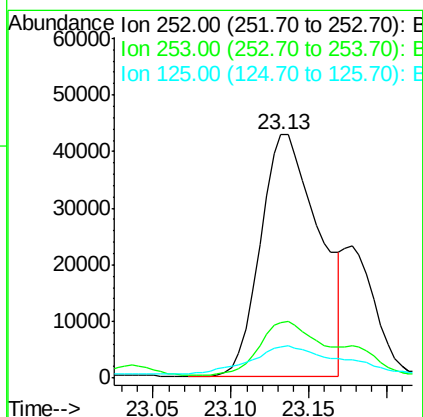
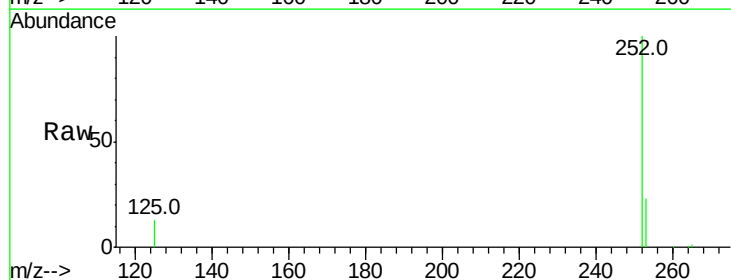
Instrument :  
BNA\_E  
ClientSampled :

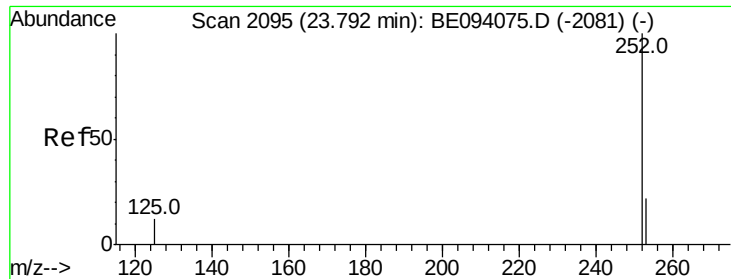
Tot Ion:252 Resp: 111327  
Ion Ratio Lower Upper  
252 100  
253 22.8 18.2 27.2  
125 13.0 10.1 15.1



#36  
Benzo(k)fluoranthene  
Concen: 2.100 ng  
RT: 23.13 min Scan# 1950  
Delta R.T. -0.05 min  
Lab File: BE094084.D  
Acq: 23 Sep 2017 18:53

Tgt Ion:252 Resp: 111327  
Ion Ratio Lower Upper  
252 100  
253 22.8 18.6 27.8  
125 13.0 10.7 16.1





#37

Benzo(a)pyrene

Concen: 1.382 ng

RT: 23.79 min Scan# 2094

Delta R.T. -0.00 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

Instrument :

BNA\_E

ClientSampleId :

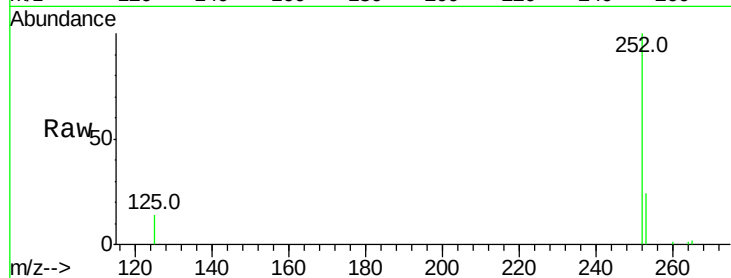
Tot Ion:252 Resp: 65573

Ion Ratio Lower Upper

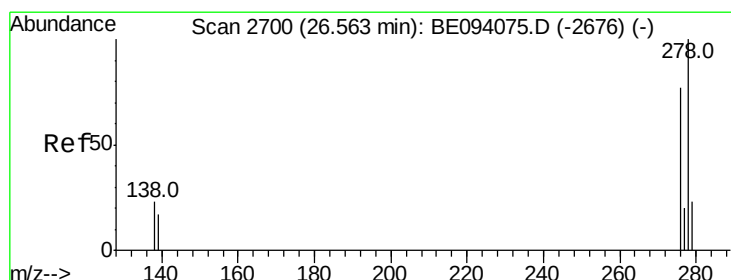
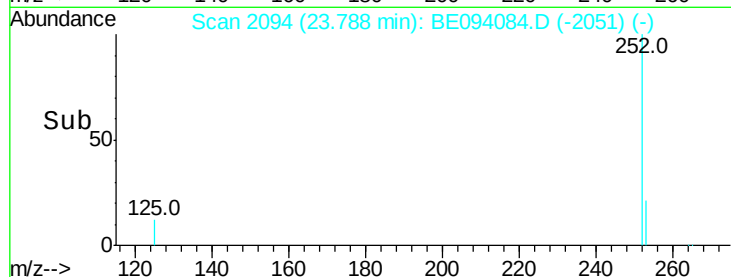
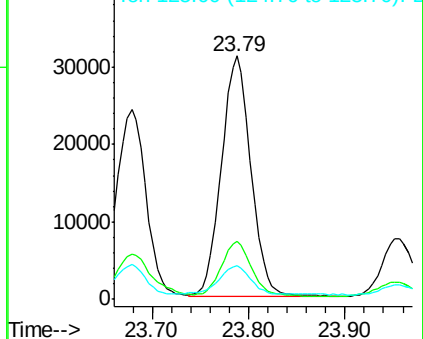
252 100

253 23.8 19.0 28.6

125 13.9 11.8 17.8



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: 0.309 ng

RT: 26.55 min Scan# 2696

Delta R.T. -0.02 min

Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

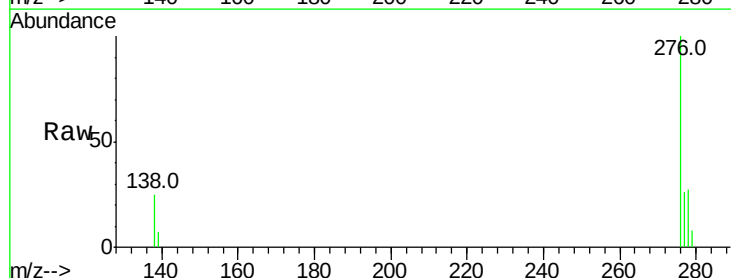
Tgt Ion:278 Resp: 11727

Ion Ratio Lower Upper

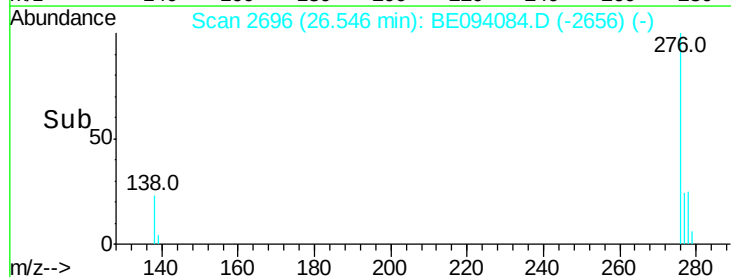
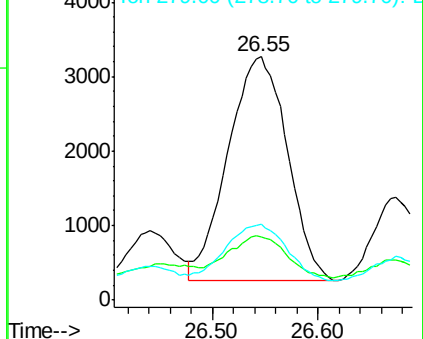
278 100

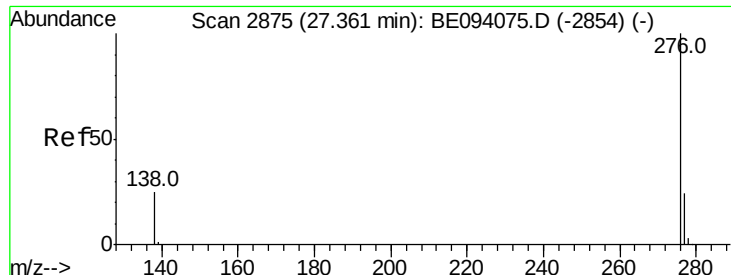
139 26.0 16.3 24.5#

279 31.4 19.9 29.9#



Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 1.120 ng

RT: 27.36 min Scan# 2874

Delta R.T. -0.00 min

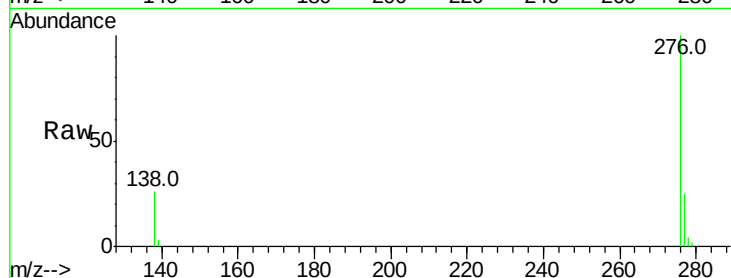
Lab File: BE094084.D

Acq: 23 Sep 2017 18:53

Instrument :

BNA\_E

ClientSampleId :



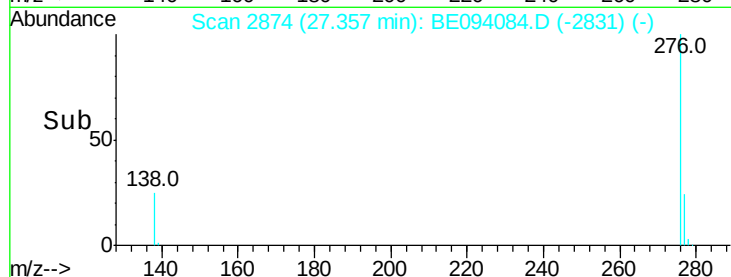
Tot Ion: 276 Resp: 42518

Ion Ratio Lower Upper

276 100

277 25.3 20.8 31.2

138 26.4 21.5 32.3



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

