

Data Path : Z:\HPCHEM1\BNA E\DATA\BE110117\  
 Data File : BE094689.D  
 Acq On : 1 Nov 2017 14:00  
 Operator : SJ/JU  
 Sample : PB103176BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Nov 01 15:55:28 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE102317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 23 22:40:47 2017  
 Response via : Initial Calibration

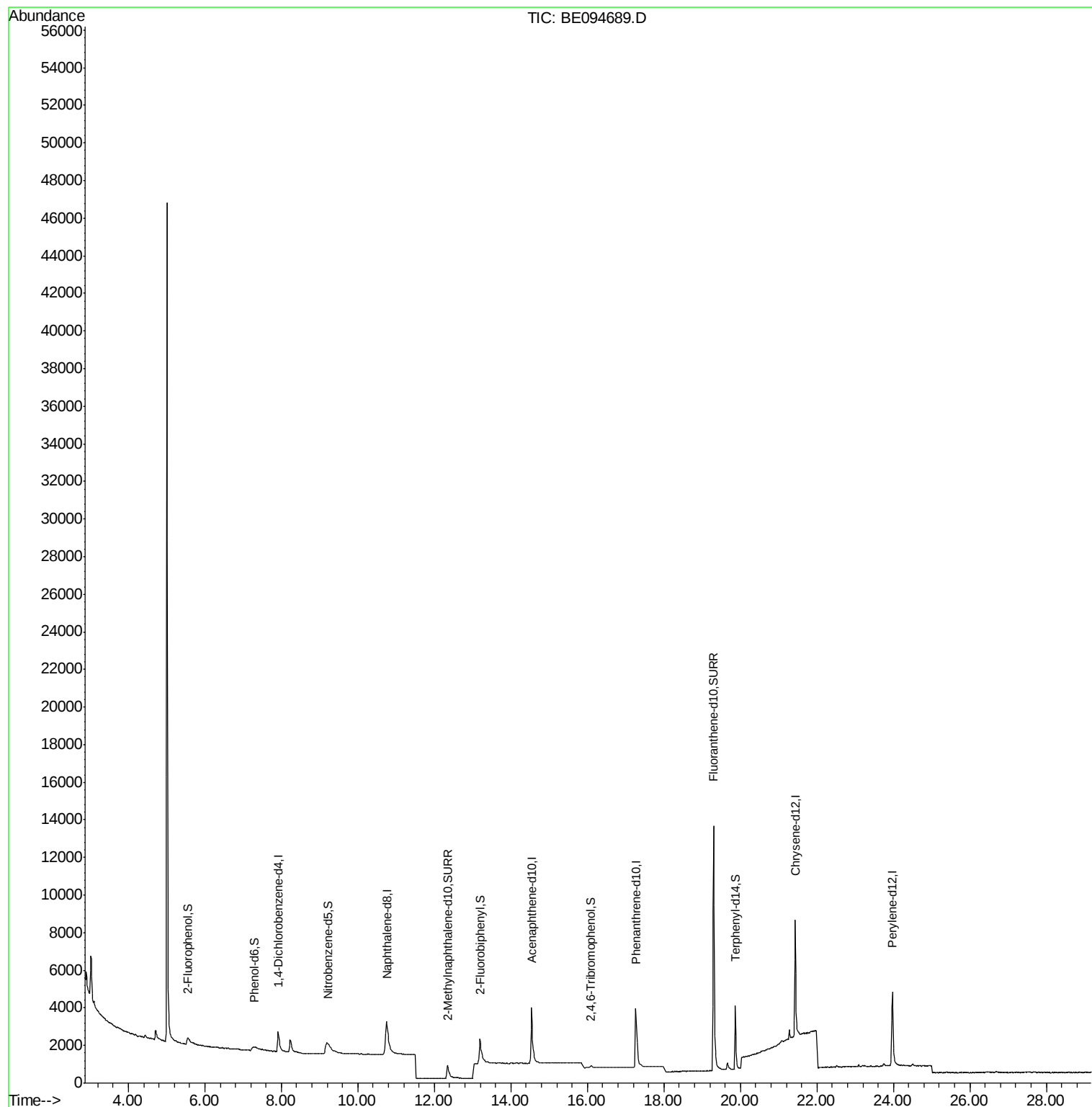
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.92  | 152  | 1022     | 0.40      | ng    | 0.01     |
| 7) Naphthalene-d8           | 10.76 | 136  | 5641     | 0.40      | ng    | 0.05     |
| 13) Acenaphthene-d10        | 14.54 | 164  | 3483     | 0.40      | ng    | 0.03     |
| 19) Phenanthrene-d10        | 17.27 | 188  | 8433     | 0.40      | ng    | 0.03     |
| 27) Chrysene-d12            | 21.44 | 240  | 8335     | 0.40      | ng    | 0.01     |
| 34) Perylene-d12            | 23.98 | 264  | 7695     | 0.40      | ng    | 0.02     |
| System Monitoring Compounds |       |      |          |           |       |          |
| 4) 2-Fluorophenol           | 5.56  | 112  | 700      | 0.20      | ng    | 0.04     |
| 5) Phenol-d6                | 7.29  | 99   | 995      | 0.19      | ng    | 0.15     |
| 8) Nitrobenzene-d5          | 9.21  | 82   | 842      | 0.19      | ng    | 0.13     |
| 11) 2-Methylnaphthalene-d10 | 12.34 | 152  | 2584     | 0.29      | ng    | 0.05     |
| 14) 2,4,6-Tribromophenol    | 16.09 | 330  | 135      | 0.14      | ng    | 0.06     |
| 15) 2-Fluorobiphenyl        | 13.19 | 172  | 3259     | 0.27      | ng    | 0.04     |
| 25) Fluoranthene-d10        | 19.30 | 212  | 26556    | 0.22      | ng    | 0.02     |
| 29) Terphenyl-d14           | 19.87 | 244  | 4062     | 0.26      | ng    | 0.00     |
| Target Compounds            |       |      |          |           |       |          |
| 23) Phenanthrene            | 17.30 | 178  | 84       | Below Cal | #     | 61       |
| 26) Fluoranthene            | 19.33 | 202  | 103      | Below Cal | #     | 59       |

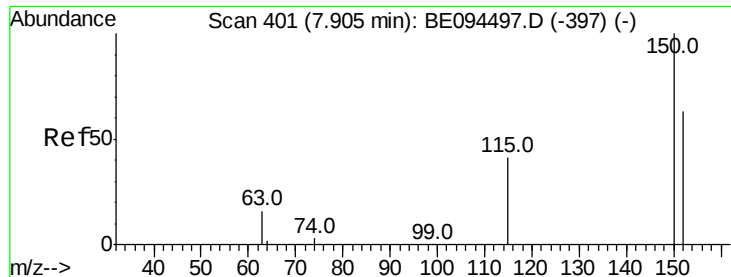
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_E  
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Quant Time: Nov 01 15:55:28 2017  
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QLast Update : Mon Oct 23 22:40:47 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.92 min Scan# 402

Delta R.T. 0.01 min

Lab File: BE094689.D

Acq: 1 Nov 2017 14:00

Instrument :

BNA\_E

ClientSampleId :

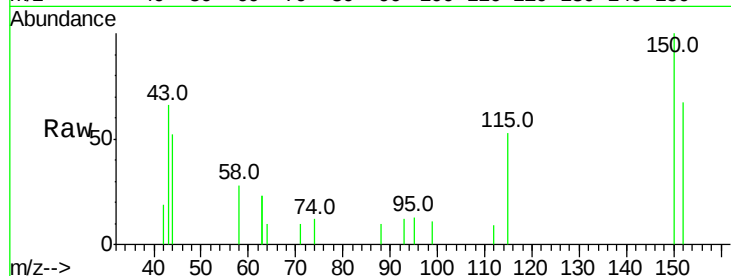
Tot Ion:152 Resp: 1022

Ion Ratio Lower Upper

152 100

150 148.9 117.2 175.8

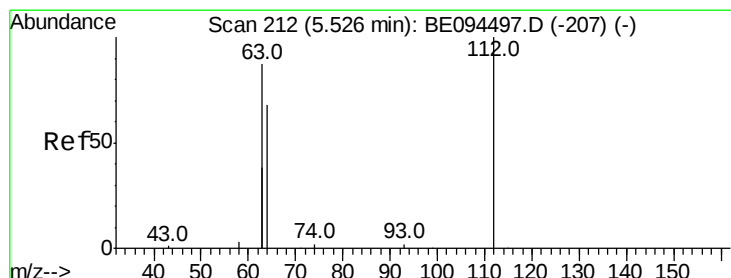
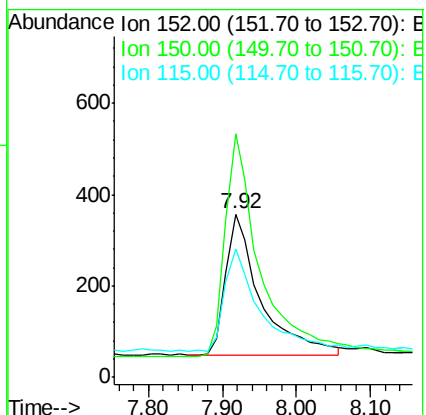
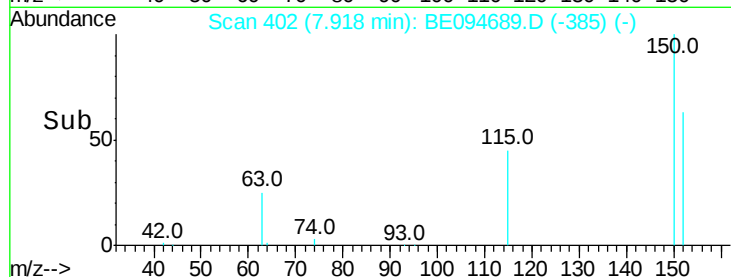
115 78.2 57.0 85.6



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



#4

2-Fluorophenol

Concen: 0.200 ng

RT: 5.56 min Scan# 215

Delta R.T. 0.04 min

Lab File: BE094689.D

Acq: 1 Nov 2017 14:00

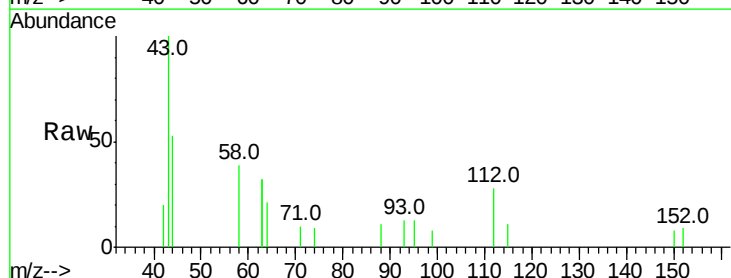
Tgt Ion:112 Resp: 700

Ion Ratio Lower Upper

112 100

64 74.1 60.1 90.1

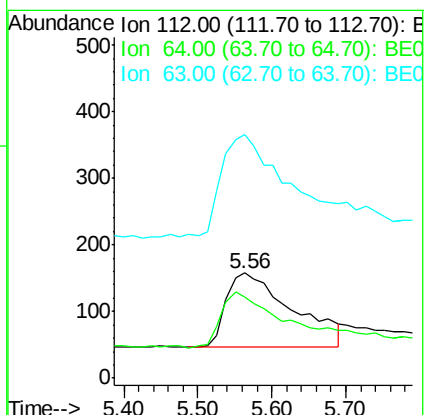
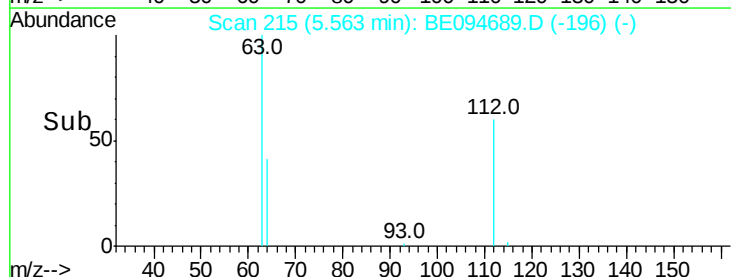
63 141.1 116.8 175.2

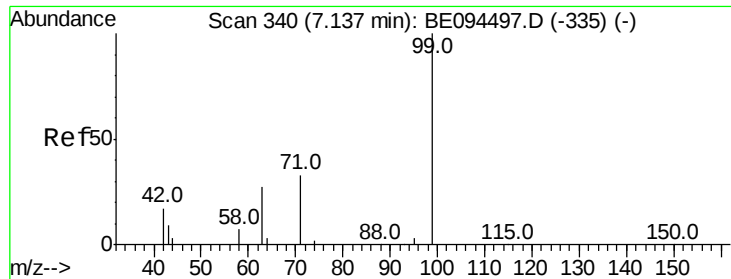


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.188 ng

RT: 7.29 min Scan# 352

Delta R.T. 0.15 min

Lab File: BE094689.D

Acq: 1 Nov 2017 14:00

Instrument :

BNA\_E

ClientSampleId :

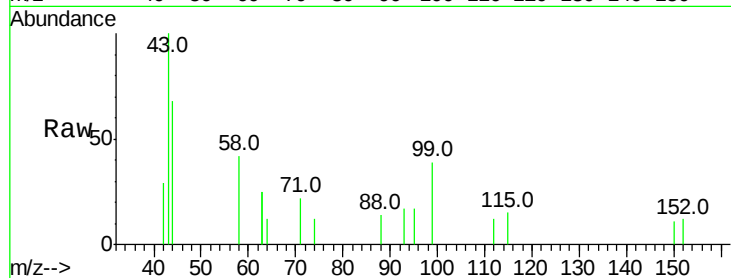
Tot Ion: 99 Resp: 995

Ion Ratio Lower Upper

99 100

42 0.0 20.2 30.2#

71 17.1 28.4 42.6#

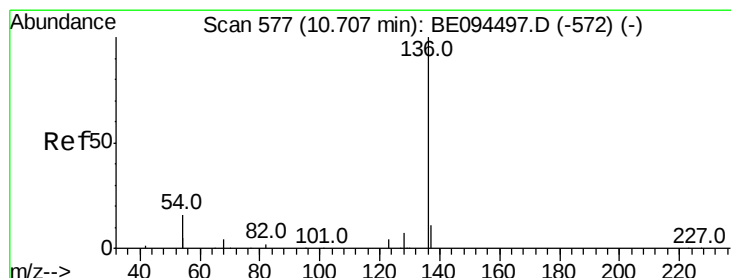
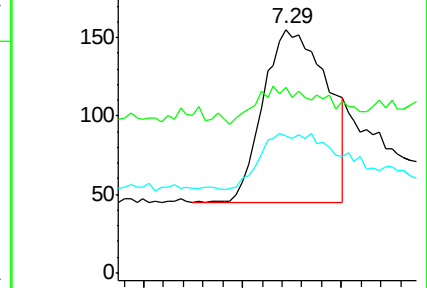
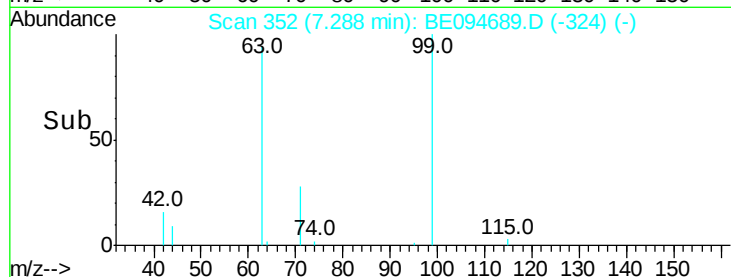


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0

Time-->



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.76 min Scan# 580

Delta R.T. 0.05 min

Lab File: BE094689.D

Acq: 1 Nov 2017 14:00

Tgt Ion: 136 Resp: 5641

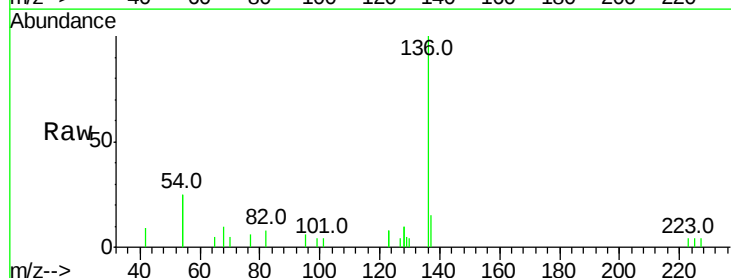
Ion Ratio Lower Upper

136 100

137 14.9 9.5 14.3#

54 49.1 29.1 43.7#

68 10.5 6.2 9.2#



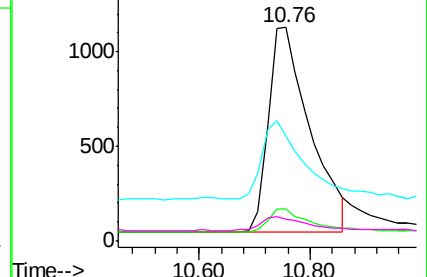
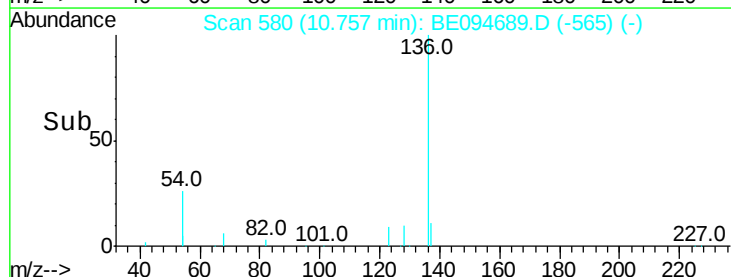
Abundance Ion 136.00 (135.70 to 136.70): E

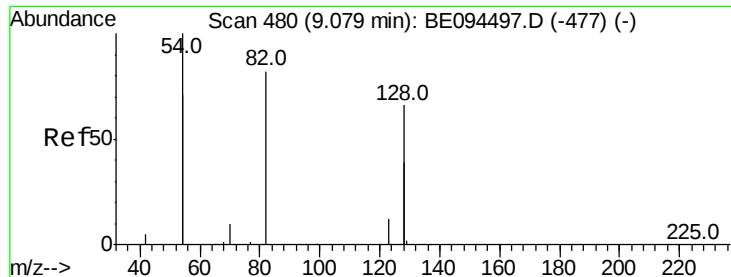
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0

Time-->





#8

Nitrobenzene-d5

Concen: 0.187 ng

RT: 9.21 min Scan# 488

Delta R.T. 0.13 min

Lab File: BE094689.D

Acq: 1 Nov 2017 14:00

Instrument :

BNA\_E

ClientSampleId :

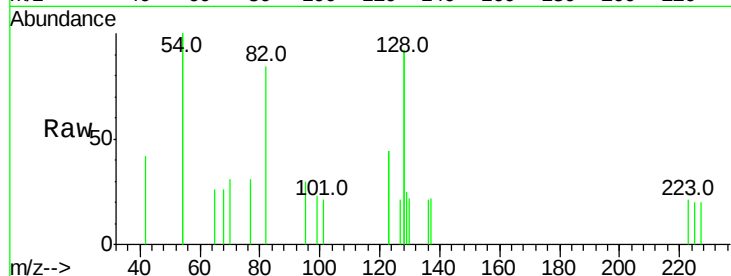
Tot Ion: 82 Resp: 842

Ion Ratio Lower Upper

82 100

128 219.5 150.0 225.0

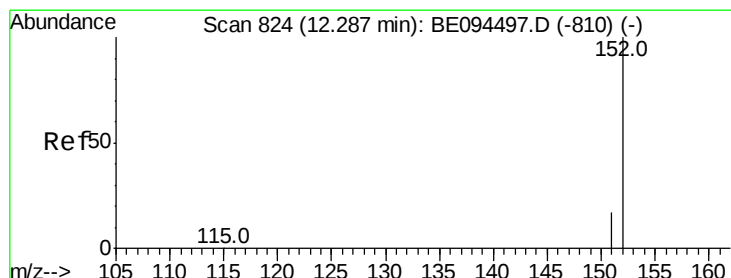
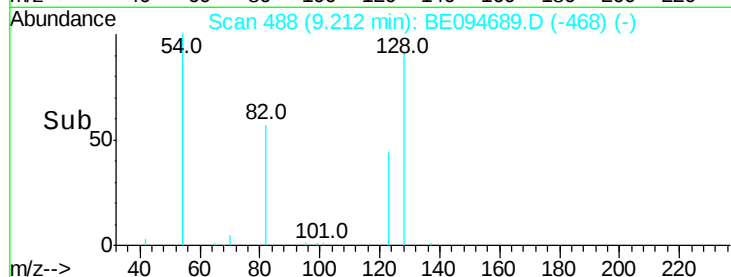
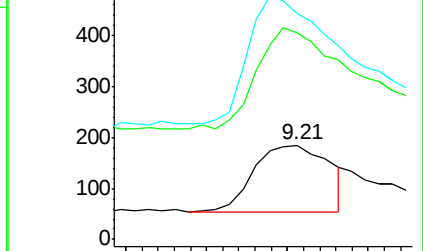
54 238.9 154.2 231.4#



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



#11

2-Methylnaphthalene-d10

Concen: 0.285 ng

RT: 12.34 min Scan# 838

Delta R.T. 0.05 min

Lab File: BE094689.D

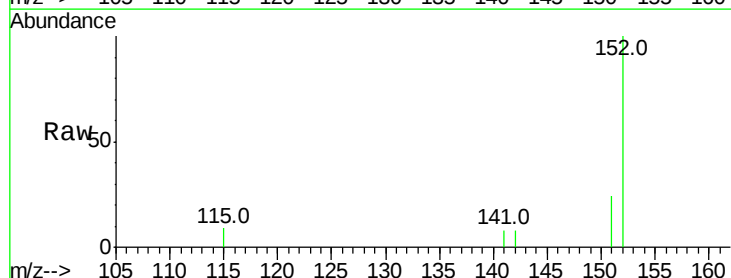
Acq: 1 Nov 2017 14:00

Tgt Ion: 152 Resp: 2584

Ion Ratio Lower Upper

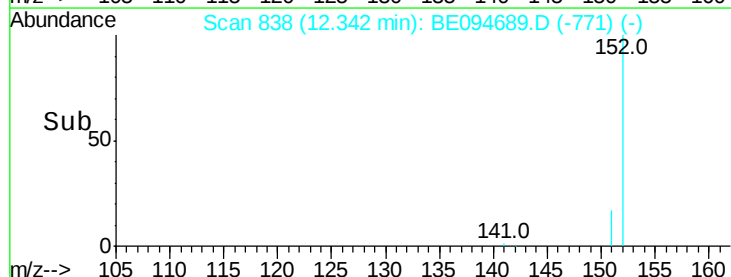
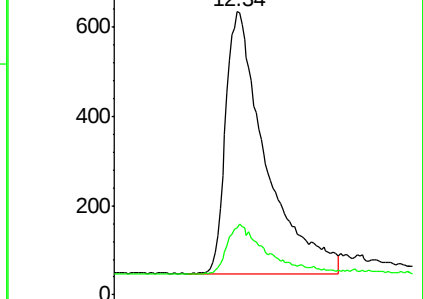
152 100

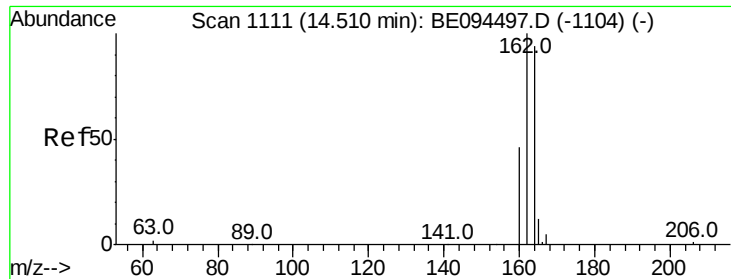
151 17.5 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.54 min Scan# 1112

Delta R.T. 0.03 min

Lab File: BE094689.D

Acq: 1 Nov 2017 14:00

Instrument :

BNA\_E

ClientSampleId :

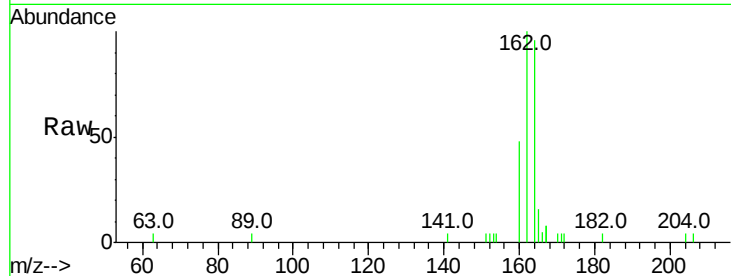
Tot Ion:164 Resp: 3483

Ion Ratio Lower Upper

164 100

162 104.0 83.1 124.7

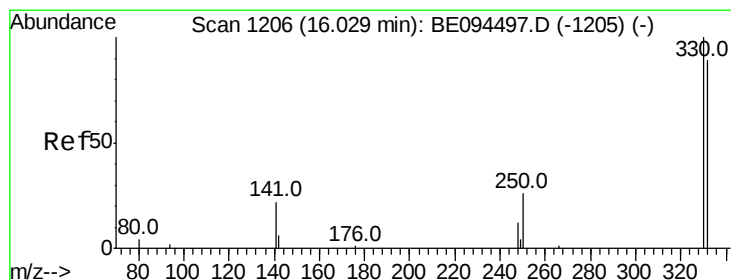
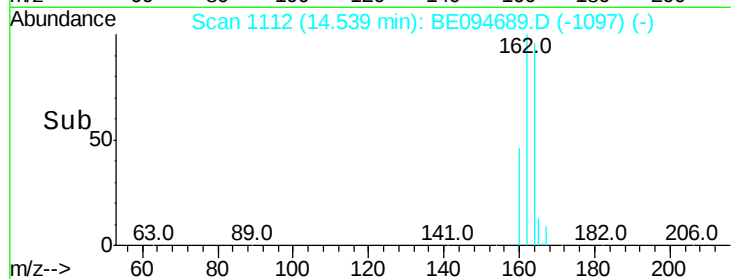
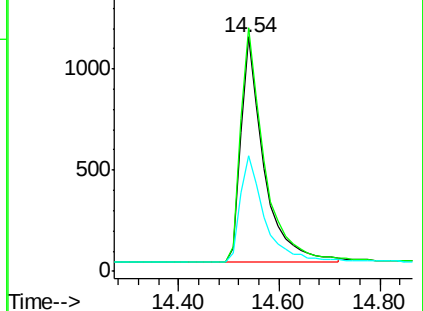
160 49.5 37.1 55.7



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: 0.141 ng

RT: 16.09 min Scan# 1207

Delta R.T. 0.06 min

Lab File: BE094689.D

Acq: 1 Nov 2017 14:00

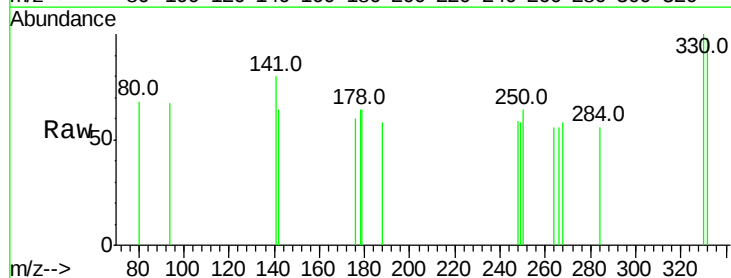
Tgt Ion:330 Resp: 135

Ion Ratio Lower Upper

330 100

332 92.6 152.7 229.1#

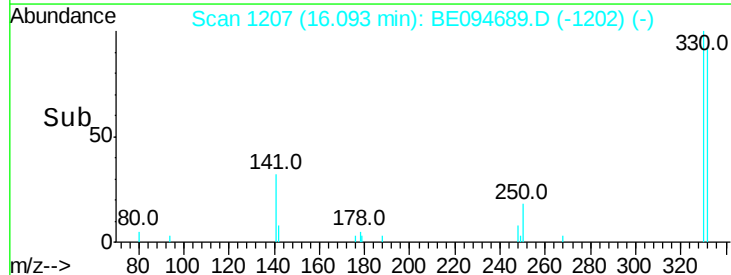
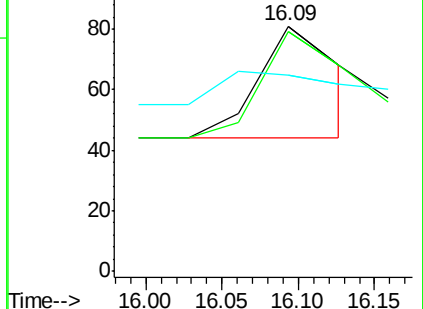
141 0.0 33.7 50.5#

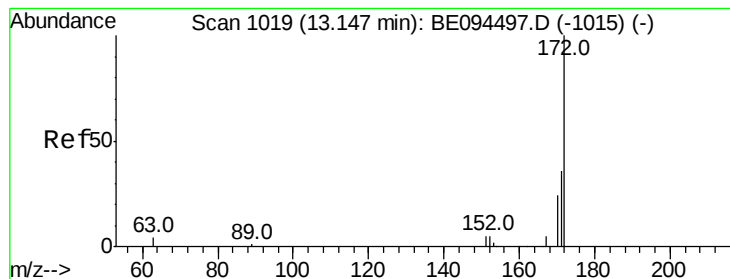


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

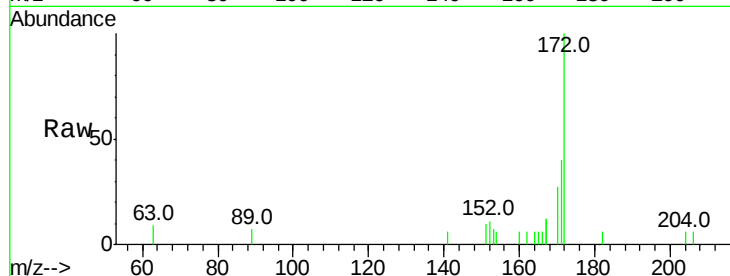




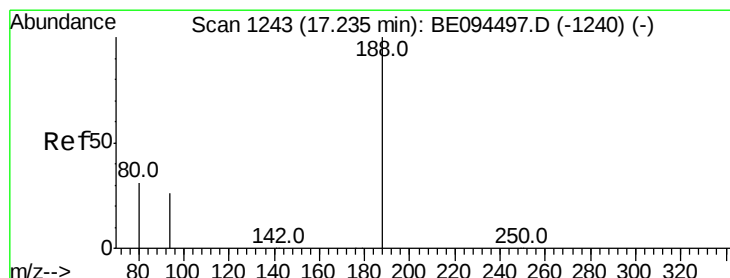
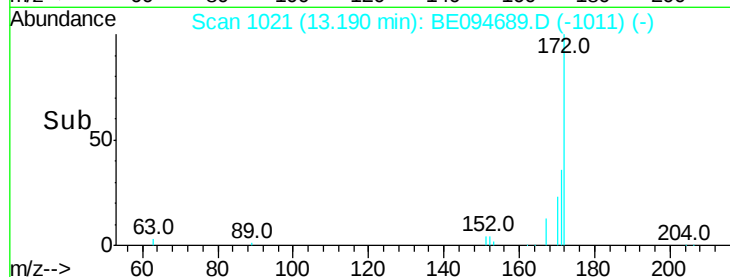
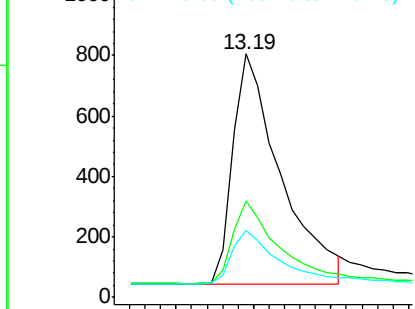
#15  
2-Fluorobiphenyl  
Concen: 0.265 ng  
RT: 13.19 min Scan# 1021  
Delta R.T. 0.04 min  
Lab File: BE094689.D  
Acq: 1 Nov 2017 14:00

Instrument :  
BNA\_E  
ClientSampled :

Tot Ion:172 Resp: 3259  
Ion Ratio Lower Upper  
172 100  
171 39.7 29.9 44.9  
170 27.3 21.8 32.8

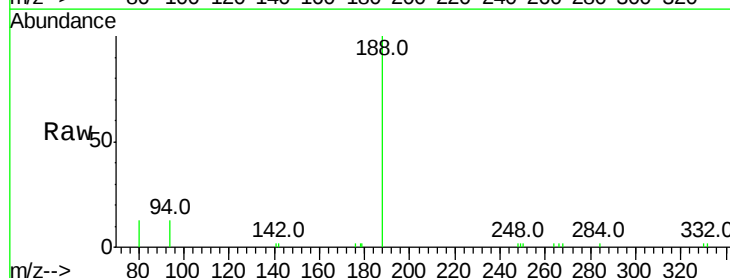


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

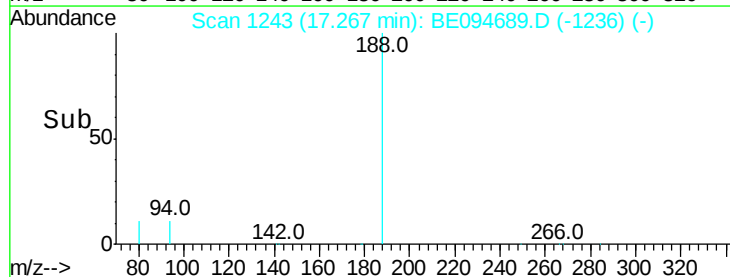
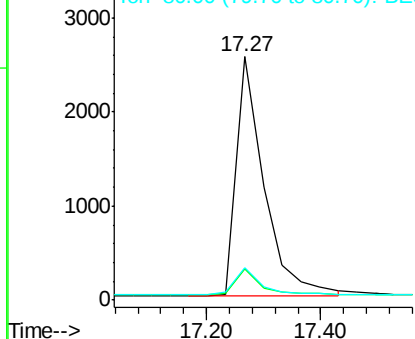


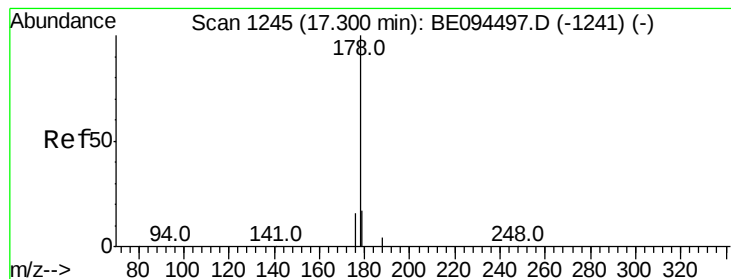
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.27 min Scan# 1243  
Delta R.T. 0.03 min  
Lab File: BE094689.D  
Acq: 1 Nov 2017 14:00

Tgt Ion:188 Resp: 8433  
Ion Ratio Lower Upper  
188 100  
94 12.6 3.9 5.9#  
80 13.4 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





#23

Phenanthrene

Concen: Below Cal

RT: 17.30 min Scan# 1244

Delta R.T. -0.00 min

Lab File: BE094689.D

Acq: 1 Nov 2017 14:00

Instrument :

BNA\_E

ClientSampleId :

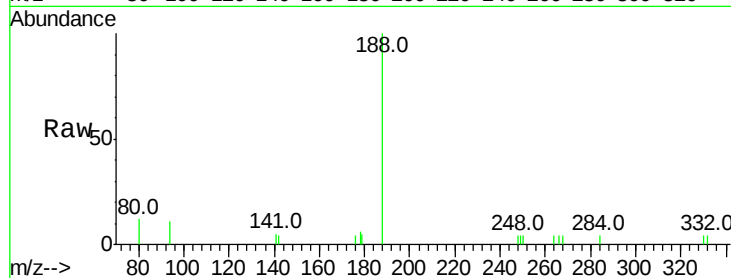
Tot Ion:178 Resp: 84

Ion Ratio Lower Upper

178 100

176 0.0 15.1 22.7#

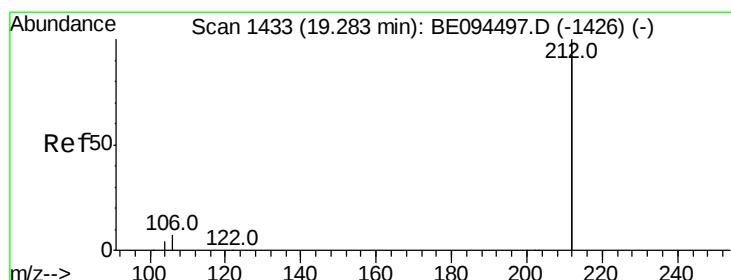
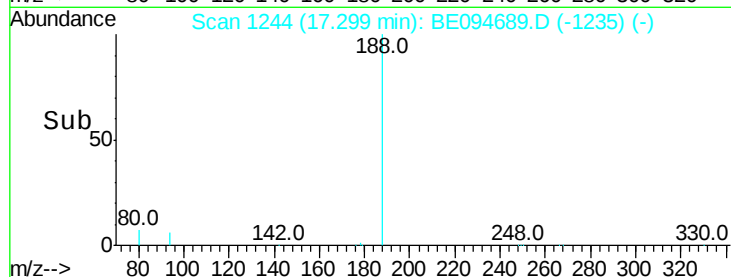
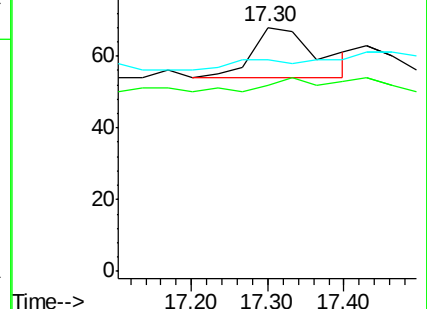
179 0.0 11.8 17.6#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#25

Fluoranthene-d10

Concen: 0.222 ng

RT: 19.30 min Scan# 1434

Delta R.T. 0.02 min

Lab File: BE094689.D

Acq: 1 Nov 2017 14:00

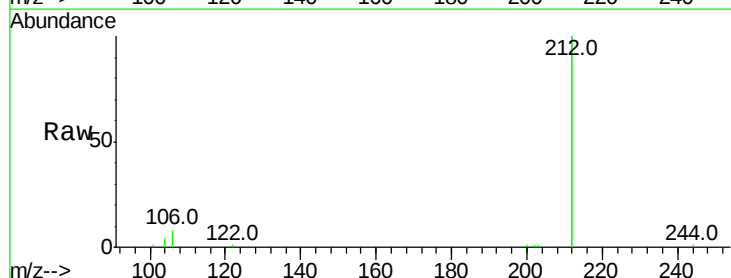
Tgt Ion:212 Resp: 26556

Ion Ratio Lower Upper

212 100

106 3.5 2.8 4.2

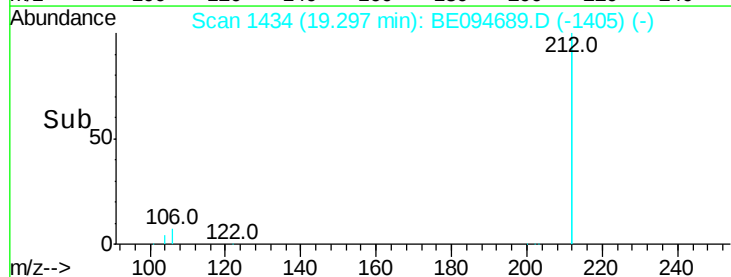
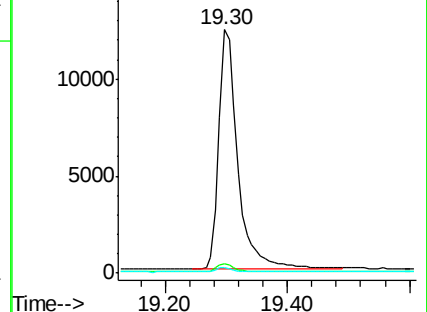
104 1.9 1.6 2.4

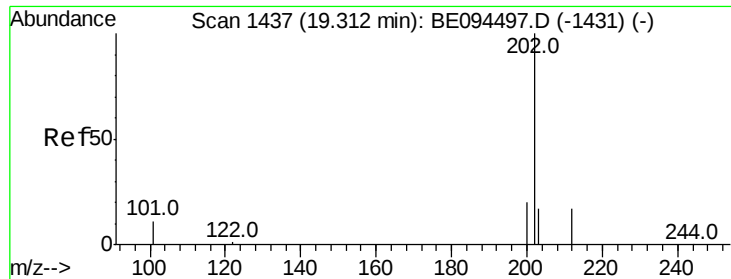


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

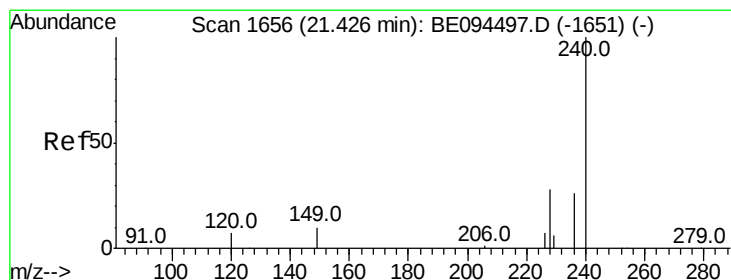
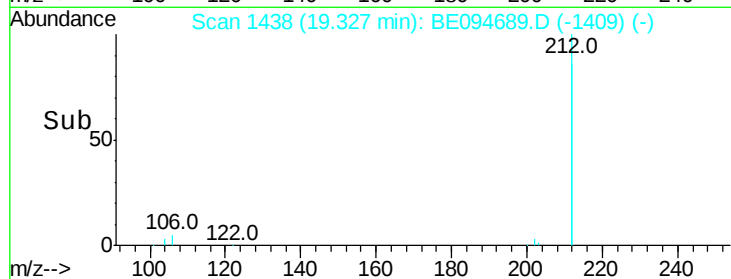
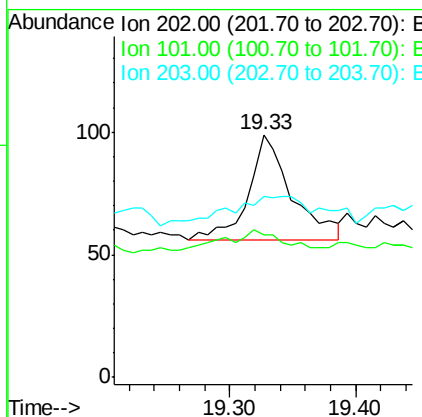
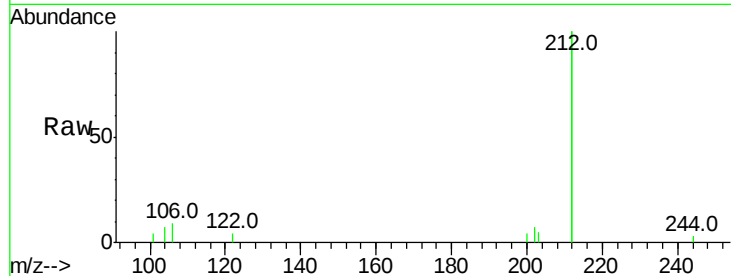




#26  
 Fluoranthene  
 Concen: Below Cal  
 RT: 19.33 min Scan# 1438  
 Delta R.T. 0.01 min  
 Lab File: BE094689.D  
 Acq: 1 Nov 2017 14:00

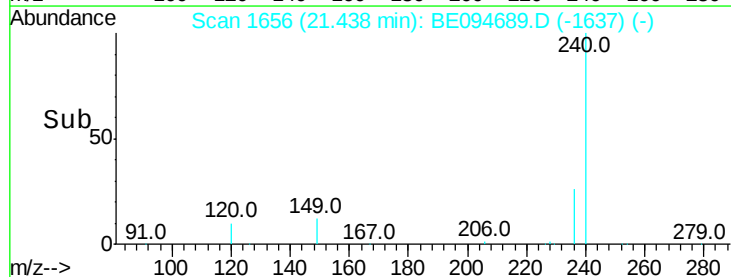
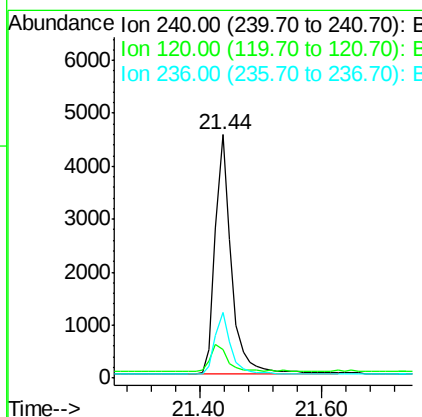
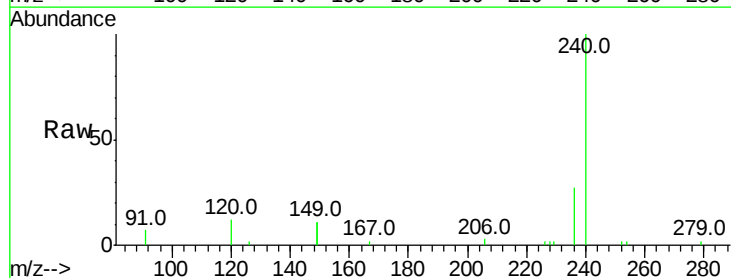
Instrument :  
 BNA\_E  
 ClientSampleId :

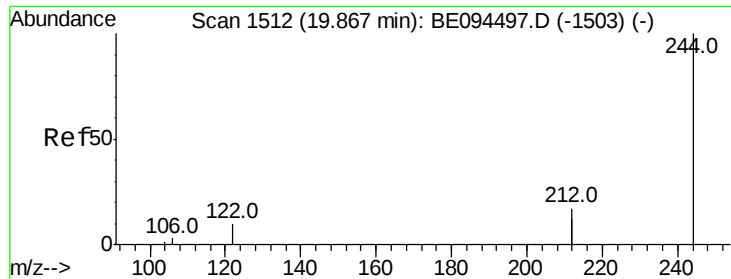
Tot Ion:202 Resp: 103  
 Ion Ratio Lower Upper  
 202 100  
 101 26.2 9.8 14.8#  
 203 36.9 13.7 20.5#



#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 21.44 min Scan# 1656  
 Delta R.T. 0.01 min  
 Lab File: BE094689.D  
 Acq: 1 Nov 2017 14:00

Tgt Ion:240 Resp: 8335  
 Ion Ratio Lower Upper  
 240 100  
 120 11.9 5.5 8.3#  
 236 27.0 20.7 31.1





#29

Terphenyl-d14

Concen: 0.258 ng

RT: 19.87 min Scan# 1511

Delta R.T. -0.00 min

Lab File: BE094689.D

Acq: 1 Nov 2017 14:00

Instrument :

BNA\_E

ClientSampleId :

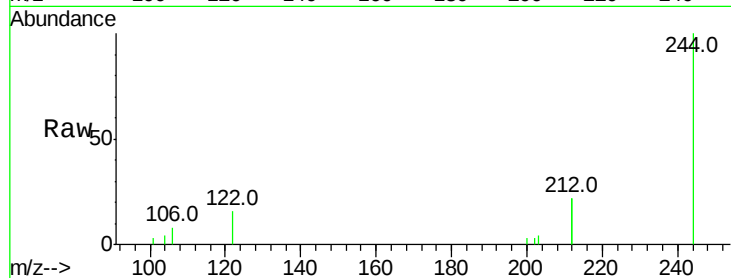
Tot Ion:244 Resp: 4062

Ion Ratio Lower Upper

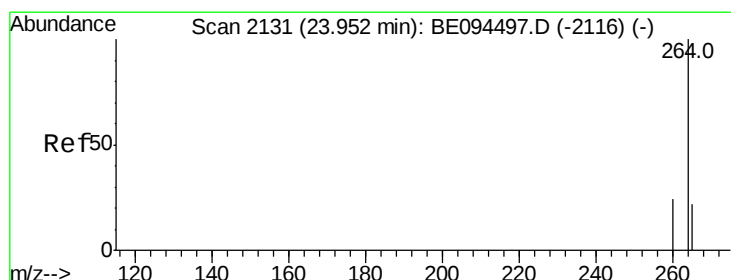
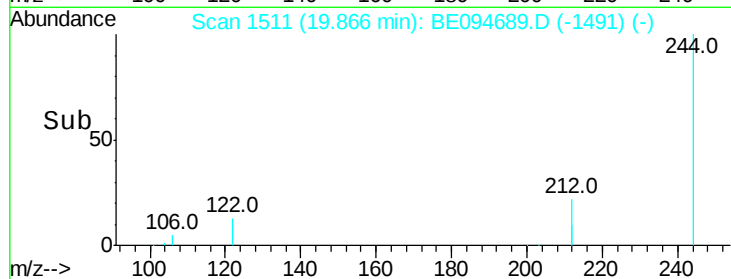
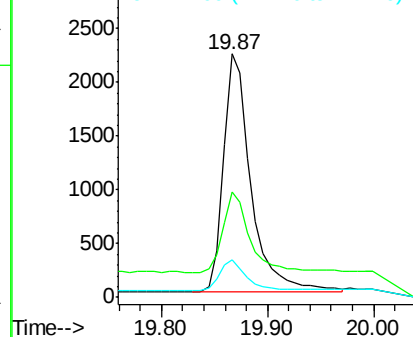
244 100

212 43.1 25.4 38.0#

122 15.5 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



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.98 min Scan# 2135

Delta R.T. 0.02 min

Lab File: BE094689.D

Acq: 1 Nov 2017 14:00

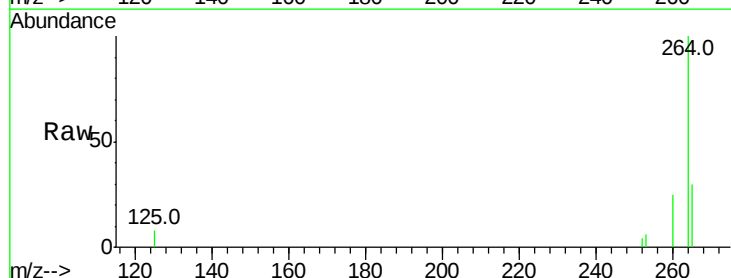
Tgt Ion:264 Resp: 7695

Ion Ratio Lower Upper

264 100

260 25.4 20.5 30.7

265 30.4 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

