

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN032219\  
 Data File : BN004891.D  
 Acq On : 22 Mar 2019 19:37  
 Operator : JU/SJ  
 Sample : PB118153BS  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB118153BS

Quant Time: Mar 23 02:48:36 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN032019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 20 16:06:20 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.69  | 152  | 2823     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.48 | 136  | 11284    | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.33 | 164  | 6318     | 0.40 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.08 | 188  | 16310    | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.29 | 240  | 19652    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.54 | 264  | 19566    | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.29  | 112  | 2554     | 0.33 | ng    | 0.00     |
| 5) Phenol-d6                | 6.87  | 99   | 3020     | 0.32 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.86  | 82   | 2222     | 0.30 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10 | 12.07 | 152  | 5931     | 0.30 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.84 | 330  | 1140     | 0.26 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl        | 12.95 | 172  | 8724     | 0.33 | ng    | -0.01    |
| 25) Fluoranthene-d10        | 19.12 | 212  | 16442    | 0.30 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.72 | 244  | 13731    | 0.34 | ng    | 0.00     |

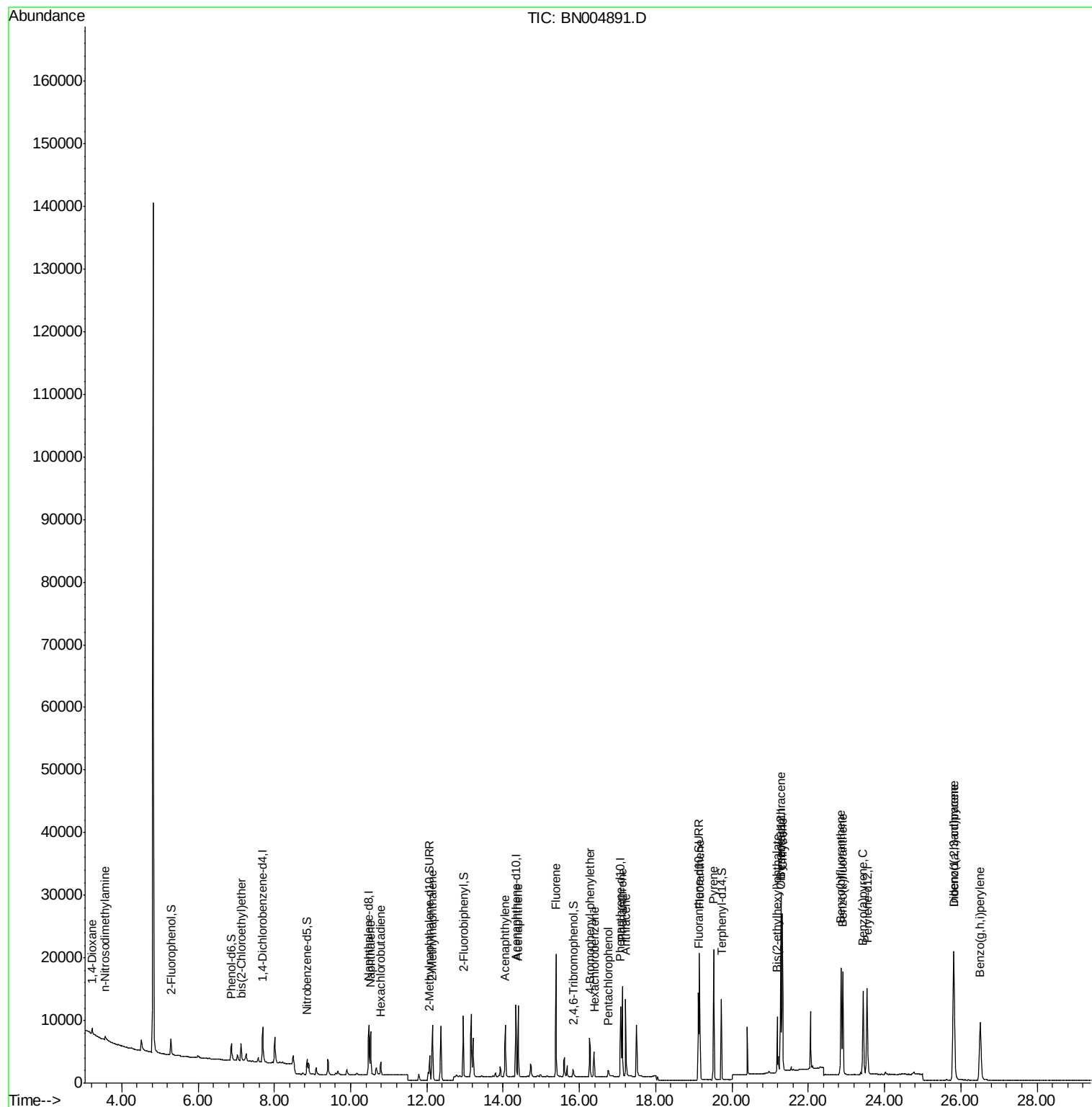
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.23  | 88   | 733      | 0.228 | ng    | # 41   |
| 3) n-Nitrosodimethylamine      | 3.57  | 42   | 491      | 0.259 | ng    | 88     |
| 6) bis(2-Chloroethyl)ether     | 7.13  | 93   | 2481     | 0.288 | ng    | 100    |
| 9) Naphthalene                 | 10.53 | 128  | 9624     | 0.304 | ng    | 99     |
| 10) Hexachlorobutadiene        | 10.80 | 225  | 1709     | 0.283 | ng    | # 99   |
| 12) 2-Methylnaphthalene        | 12.15 | 142  | 6760     | 0.288 | ng    | 100    |
| 16) Acenaphthylene             | 14.05 | 152  | 9322     | 0.286 | ng    | 99     |
| 17) Acenaphthene               | 14.40 | 154  | 6324     | 0.297 | ng    | 100    |
| 18) Fluorene                   | 15.38 | 166  | 8719     | 0.293 | ng    | 99     |
| 20) 4-Bromophenyl-phenylether  | 16.27 | 248  | 3024     | 0.284 | ng    | 92     |
| 21) Hexachlorobenzene          | 16.39 | 284  | 3297     | 0.270 | ng    | 96     |
| 22) Pentachlorophenol          | 16.75 | 266  | 776      | 0.325 | ng    | 98     |
| 23) Phenanthrene               | 17.12 | 178  | 15387    | 0.292 | ng    | 99     |
| 24) Anthracene                 | 17.22 | 178  | 13395    | 0.285 | ng    | 100    |
| 26) Fluoranthene               | 19.16 | 202  | 19252    | 0.284 | ng    | 100    |
| 28) Pyrene                     | 19.52 | 202  | 19506    | 0.326 | ng    | 99     |
| 30) Benzo(a)anthracene         | 21.27 | 228  | 19107    | 0.296 | ng    | 97     |
| 31) Chrysene                   | 21.32 | 228  | 19650    | 0.289 | ng    | 99     |
| 32) Bis(2-ethylhexyl)phthalate | 21.18 | 149  | 7444     | 0.289 | ng    | 99     |
| 33) Indeno(1,2,3-cd)pyrene     | 25.81 | 276  | 24084    | 0.245 | ng    | 98     |
| 35) Benzo(b)fluoranthene       | 22.86 | 252  | 20838    | 0.294 | ng    | 99     |
| 36) Benzo(k)fluoranthene       | 22.90 | 252  | 21455    | 0.308 | ng    | 99     |
| 37) Benzo(a)pyrene             | 23.44 | 252  | 19388    | 0.299 | ng    | 99     |
| 38) Dibenzo(a,h)anthracene     | 25.82 | 278  | 20133    | 0.268 | ng    | 98     |
| 39) Benzo(g,h,i)perylene       | 26.51 | 276  | 20493    | 0.267 | ng    | 98     |

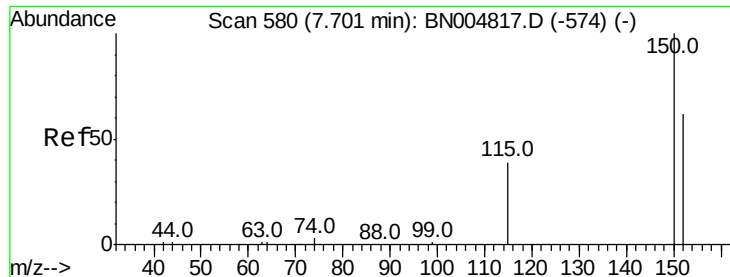
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : PB118153BS  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN032019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 20 16:06:20 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.69 min Scan# 579

Delta R.T. -0.01 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

PB118153BS

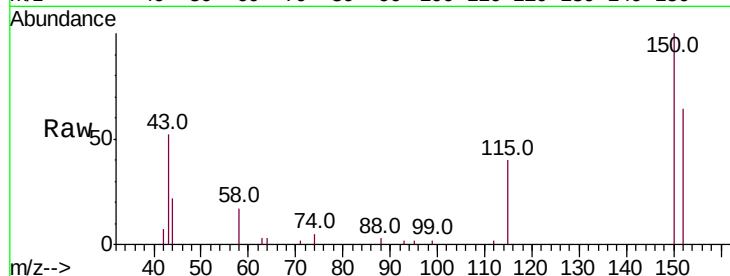
Tot Ion:152 Resp: 2823

Ion Ratio Lower Upper

152 100

150 155.2 126.2 189.4

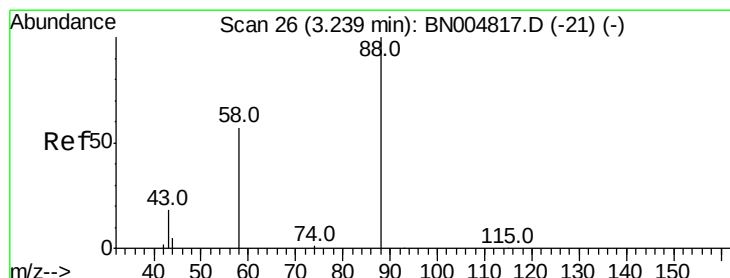
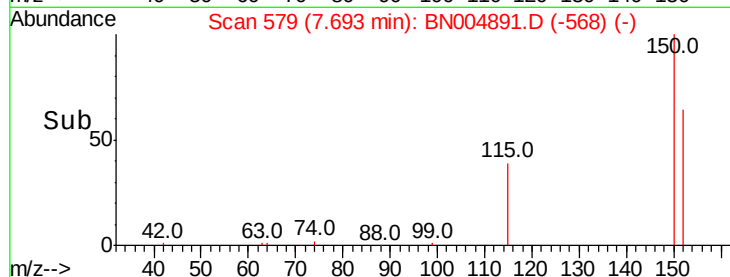
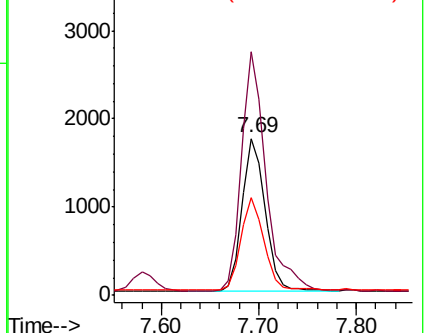
115 62.1 52.6 79.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.228 ng

RT: 3.23 min Scan# 25

Delta R.T. -0.01 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

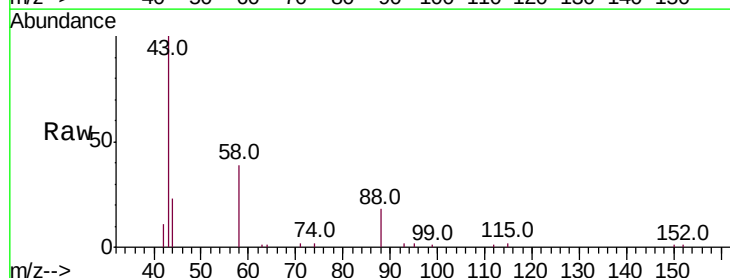
Tgt Ion: 88 Resp: 733

Ion Ratio Lower Upper

88 100

58 93.9 51.4 77.2#

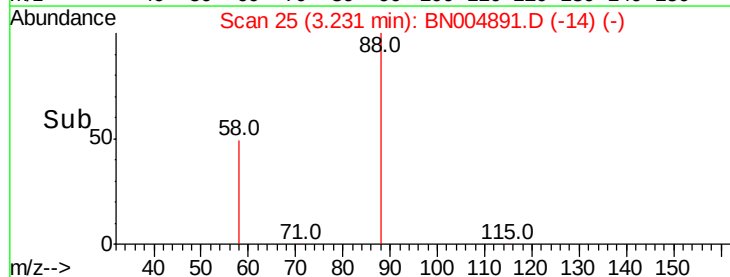
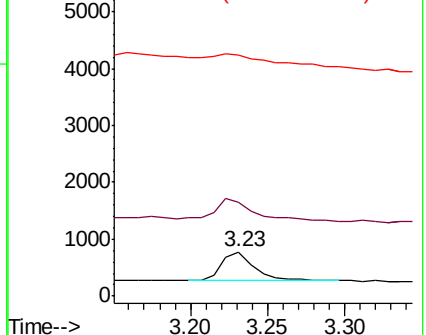
43 81.4 20.0 30.0#

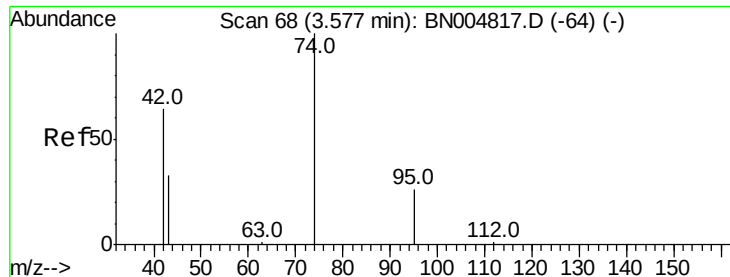


Abundance Ion 88.00 (87.70 to 88.70): BNC

Ion 58.00 (57.70 to 58.70): BNC

Ion 43.00 (42.70 to 43.70): BNC



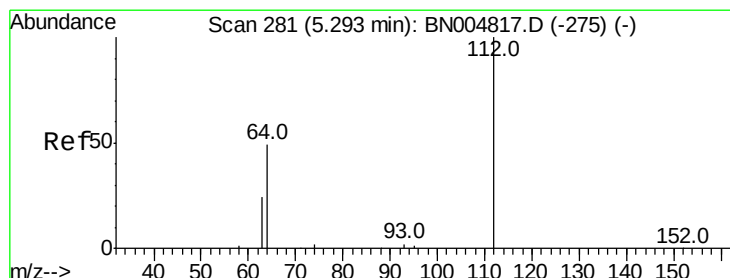
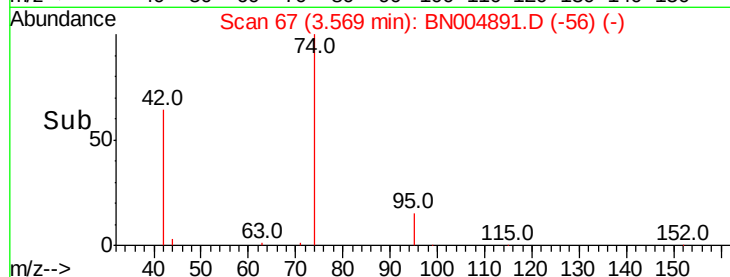
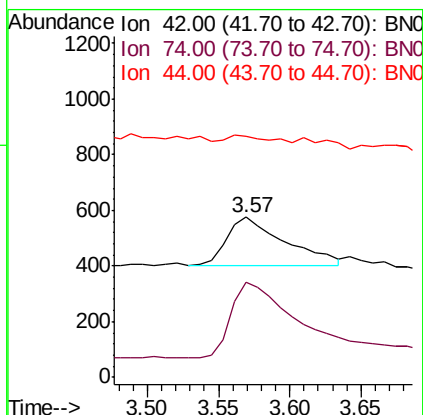
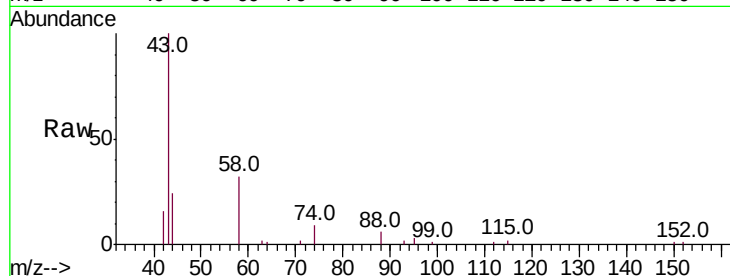


#3

n-Nitrosodimethylamine  
 Concen: 0.259 ng  
 RT: 3.57 min Scan# 67  
 Delta R.T. -0.01 min  
 Lab File: BN004891.D  
 Acq: 22 Mar 2019 19:37

Instrument :  
 BNA\_N  
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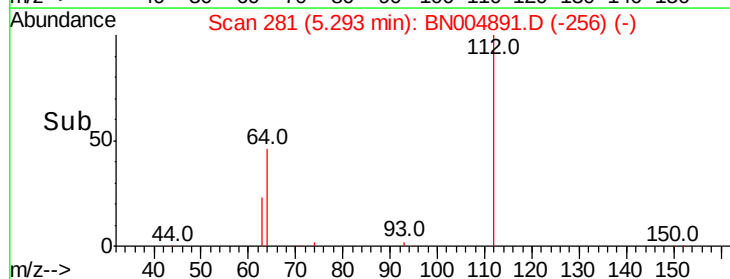
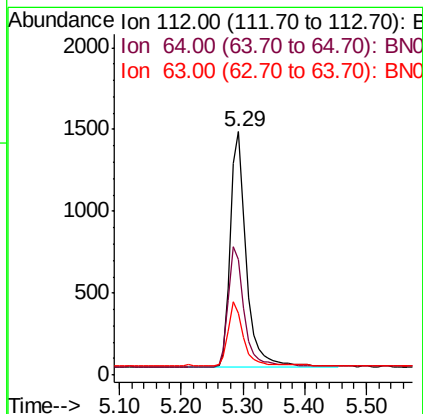
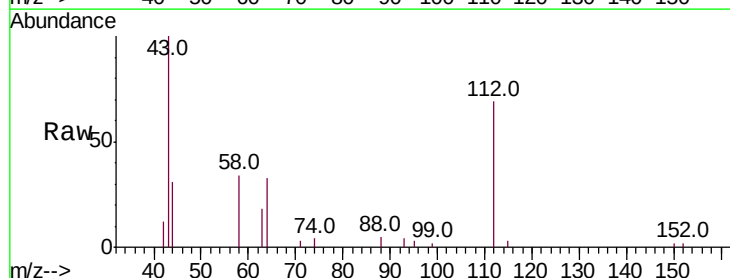
| Tot Ion | 42    | Resp  | 491   |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 42      | 100   |       |       |
| 74      | 177.4 | 128.4 | 192.6 |
| 44      | 8.1   | 6.1   | 9.1   |

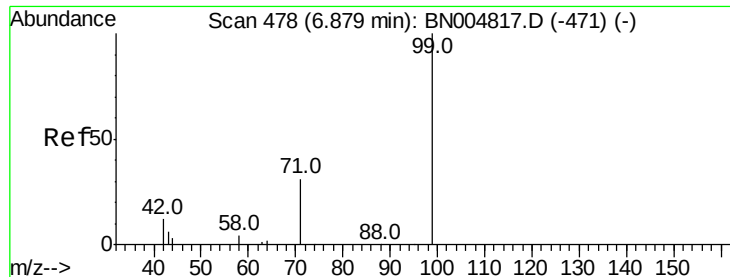


#4

2-Fluorophenol  
 Concen: 0.333 ng  
 RT: 5.29 min Scan# 281  
 Delta R.T. 0.00 min  
 Lab File: BN004891.D  
 Acq: 22 Mar 2019 19:37

| Tgt Ion | 112   | Resp  | 2554  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 112     | 100   |       |       |
| 64      | 51.4  | 40.0  | 60.0  |
| 63      | 26.8  | 20.2  | 30.2  |





#5

Phenol-d6

Concen: 0.316 ng

RT: 6.87 min Scan# 477

Delta R.T. -0.01 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

PB118153BS

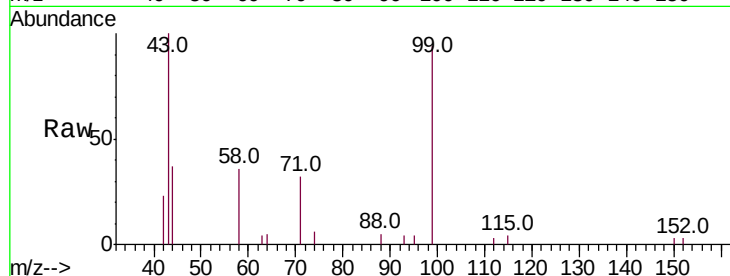
Tot Ion: 99 Resp: 3020

Ion Ratio Lower Upper

99 100

42 15.2 12.7 19.1

71 32.6 26.6 40.0



Abundance Ion 99.00 (98.70 to 99.70): BN004891.D (-471) (-)

Ion 42.00 (41.70 to 42.70): BN004891.D (-471) (-)

Ion 71.00 (70.70 to 71.70): BN004891.D (-471) (-)

6.87

1500

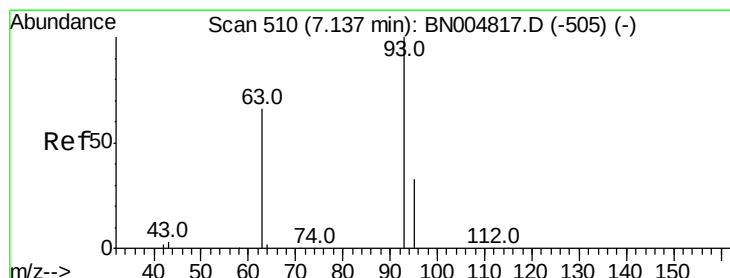
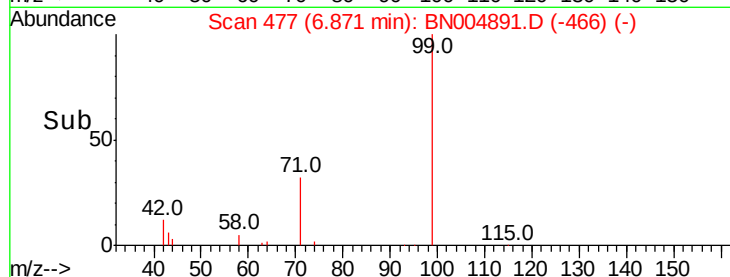
1000

500

0

6.80 6.90 7.00 7.10

Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.288 ng

RT: 7.13 min Scan# 509

Delta R.T. -0.01 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

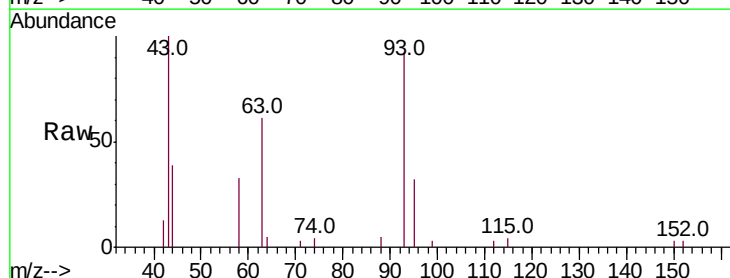
Tgt Ion: 93 Resp: 2481

Ion Ratio Lower Upper

93 100

63 66.1 52.6 78.8

95 32.1 25.9 38.9



Abundance Ion 93.00 (92.70 to 93.70): BN004891.D (-505) (-)

Ion 63.00 (62.70 to 63.70): BN004891.D (-505) (-)

Ion 95.00 (94.70 to 95.70): BN004891.D (-505) (-)

7.13

1500

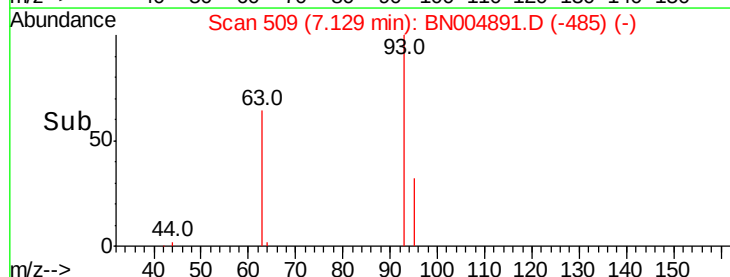
1000

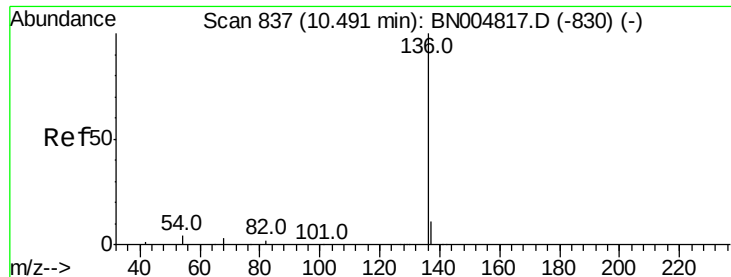
500

0

7.10 7.20

Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.48 min Scan# 836

Delta R.T. -0.01 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

PB118153BS

Tot Ion:136 Resp: 11284

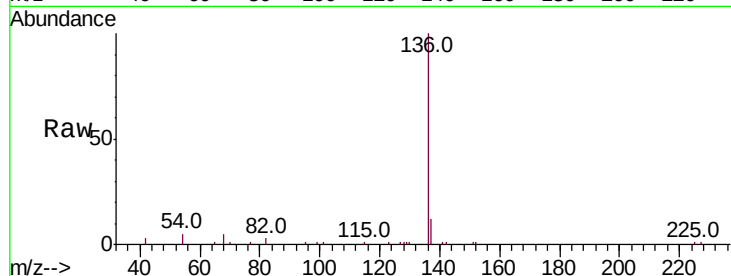
Ion Ratio Lower Upper

136 100

137 11.7 9.6 14.4

54 5.1 4.2 6.2

68 4.6 3.9 5.9

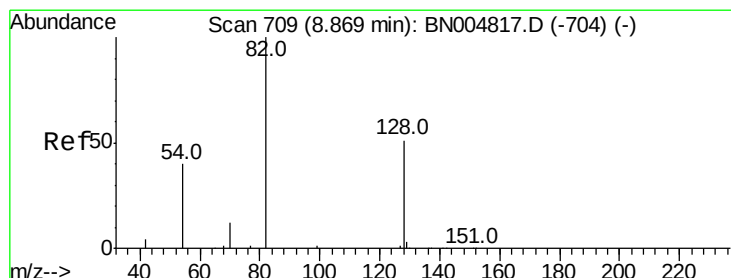
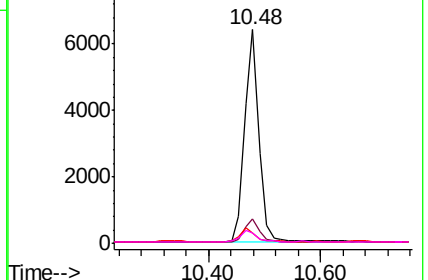
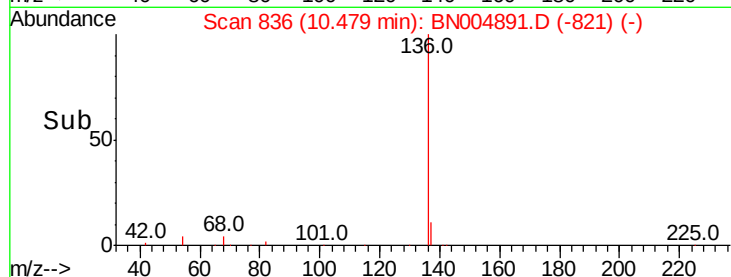


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



#8

Nitrobenzene-d5

Concen: 0.298 ng

RT: 8.86 min Scan# 708

Delta R.T. -0.01 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

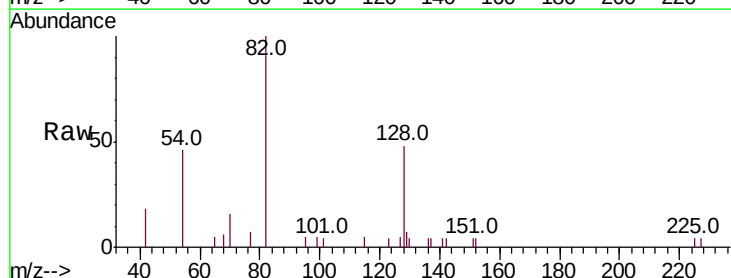
Tgt Ion: 82 Resp: 2222

Ion Ratio Lower Upper

82 100

128 48.3 43.0 64.6

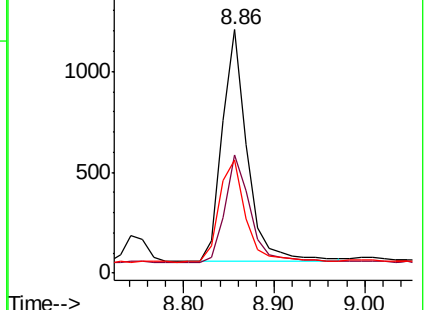
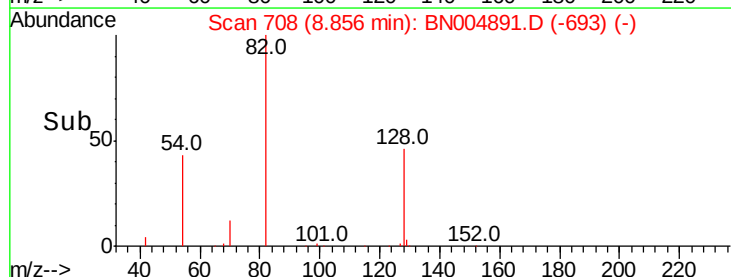
54 46.2 35.3 52.9

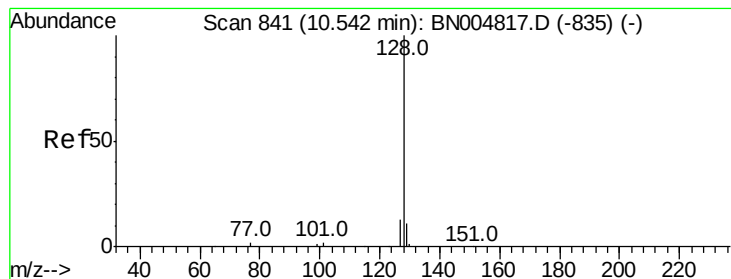


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.304 ng

RT: 10.53 min Scan# 840

Delta R.T. -0.01 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

PB118153BS

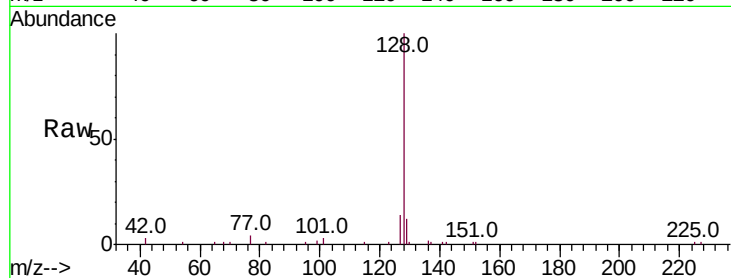
Tot Ion:128 Resp: 9624

Ion Ratio Lower Upper

128 100

129 11.7 9.9 14.9

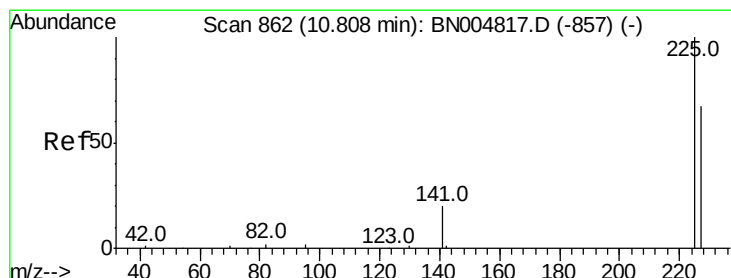
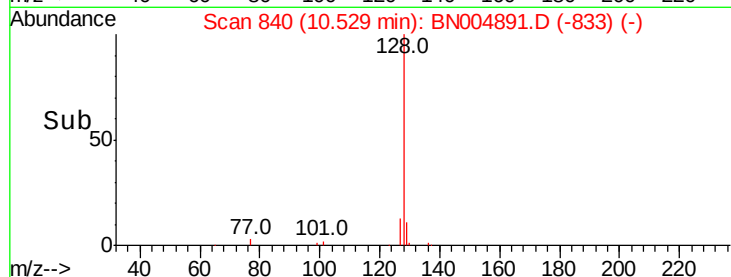
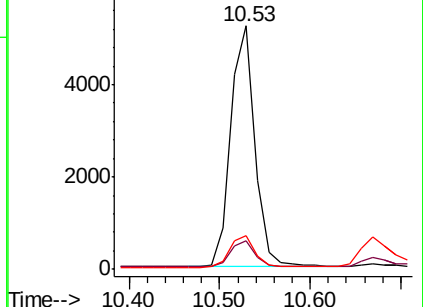
127 13.7 11.3 16.9



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



#10

Hexachlorobutadiene

Concen: 0.283 ng

RT: 10.80 min Scan# 861

Delta R.T. -0.01 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

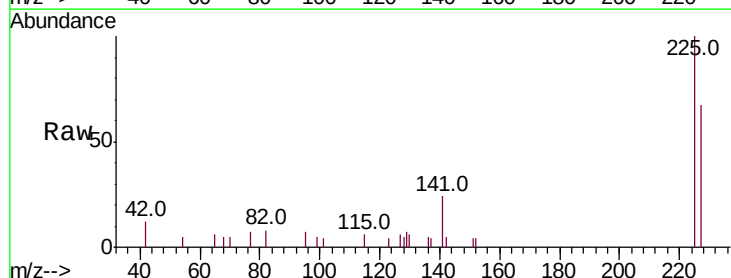
Tgt Ion:225 Resp: 1709

Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

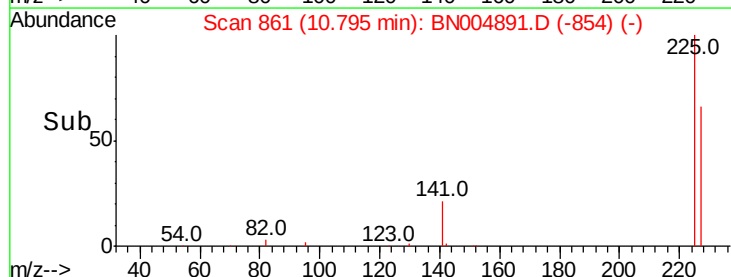
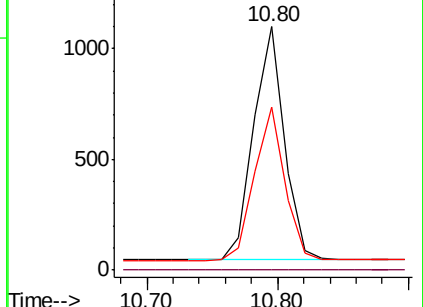
227 64.9 52.2 78.4

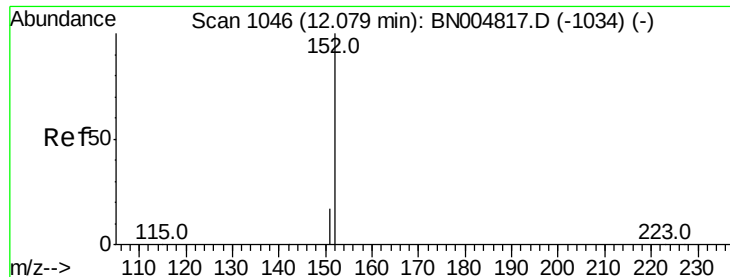


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

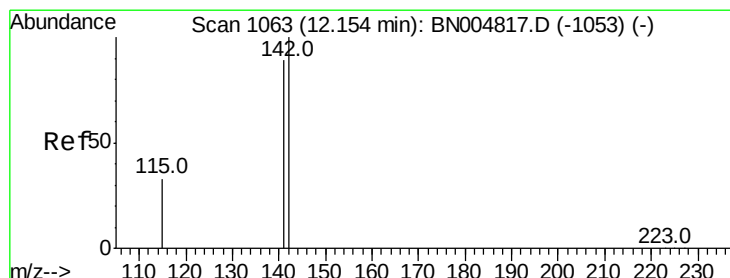
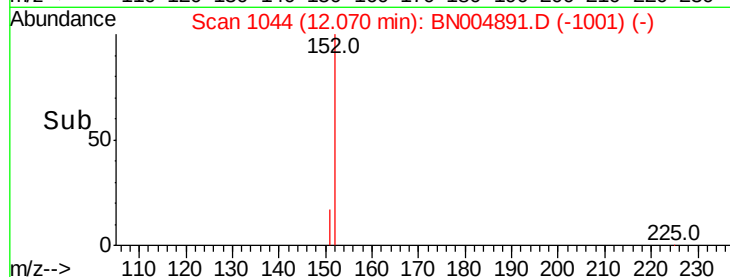
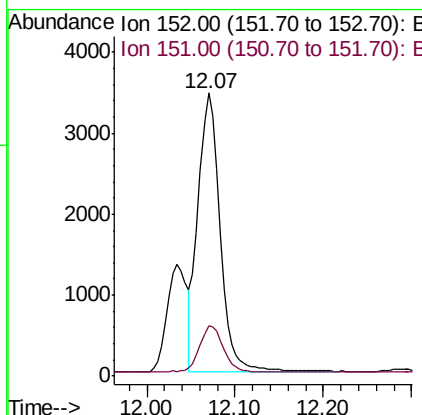
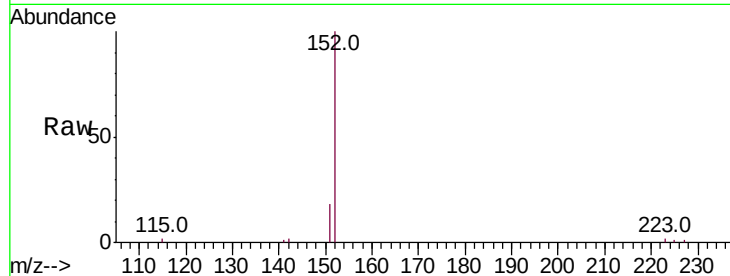




#11  
 2-Methylnaphthalene-d10  
 Concen: 0.301 ng  
 RT: 12.07 min Scan# 1044  
 Delta R.T. -0.01 min  
 Lab File: BN004891.D  
 Acq: 22 Mar 2019 19:37

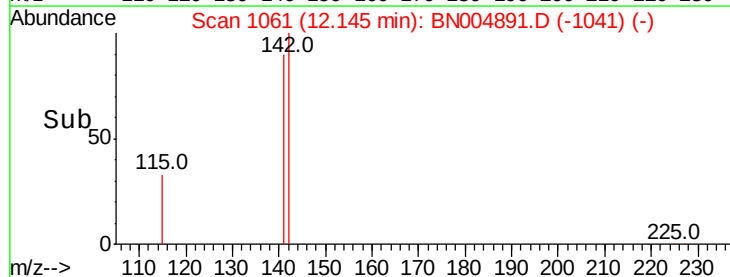
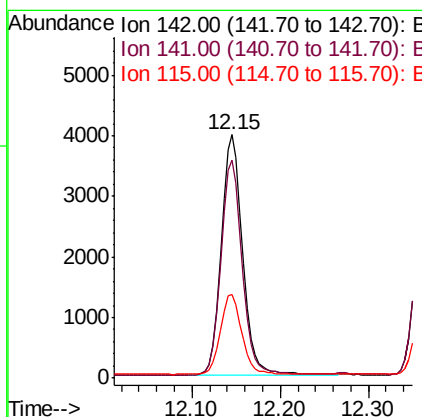
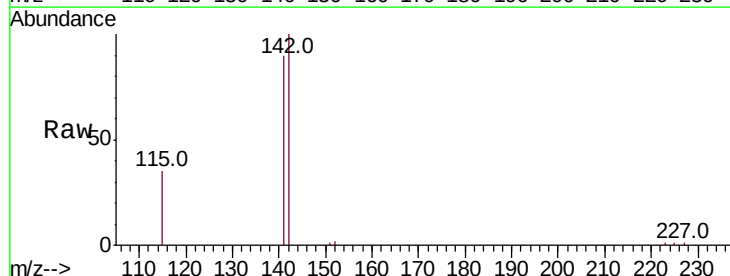
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB118153BS

Tot Ion:152 Resp: 5931  
 Ion Ratio Lower Upper  
 152 100  
 151 18.6 15.5 23.3

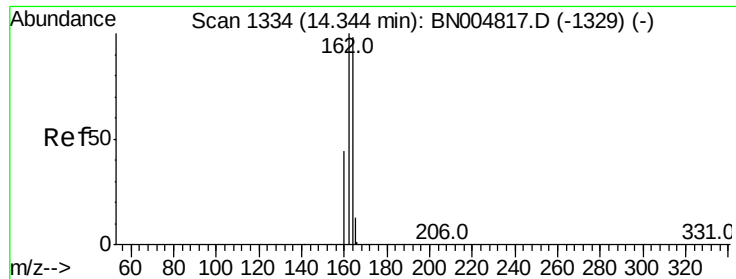


#12  
 2-Methylnaphthalene  
 Concen: 0.288 ng  
 RT: 12.15 min Scan# 1061  
 Delta R.T. -0.01 min  
 Lab File: BN004891.D  
 Acq: 22 Mar 2019 19:37

Tgt Ion:142 Resp: 6760  
 Ion Ratio Lower Upper  
 142 100  
 141 89.5 71.4 107.2  
 115 34.6 27.5 41.3







#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.33 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

PB118153BS

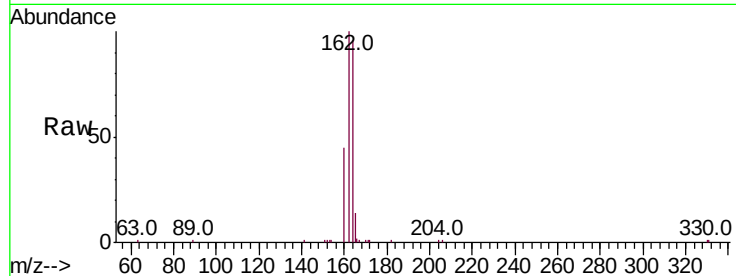
Tot Ion:164 Resp: 6318

Ion Ratio Lower Upper

164 100

162 104.0 81.9 122.9

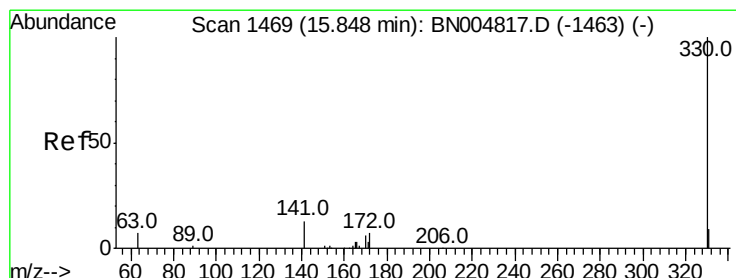
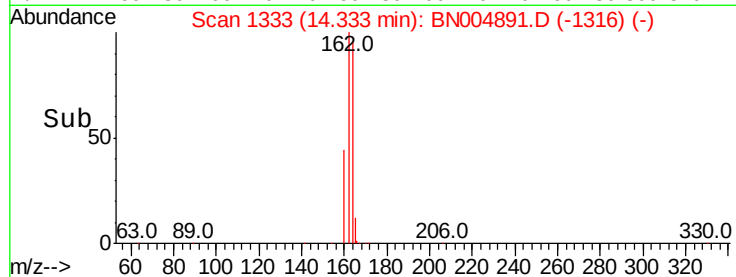
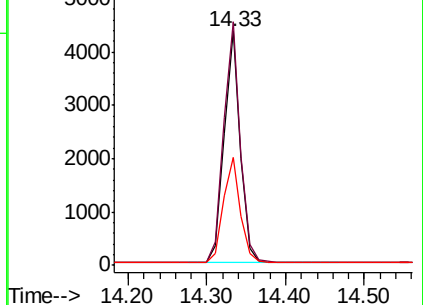
160 46.3 36.6 54.8



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: 0.261 ng

RT: 15.84 min Scan# 1468

Delta R.T. -0.01 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

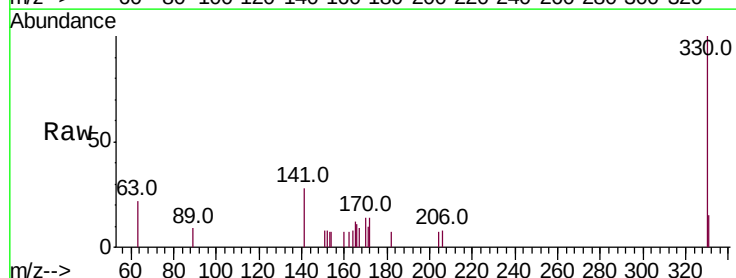
Tgt Ion:330 Resp: 1140

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

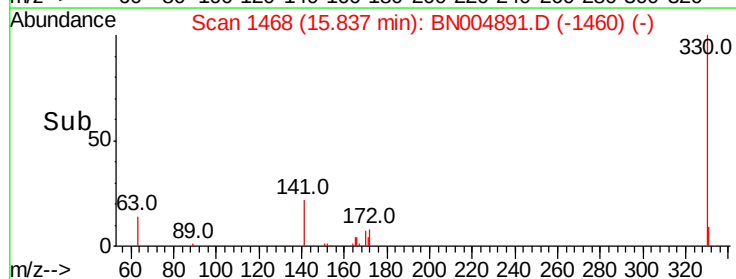
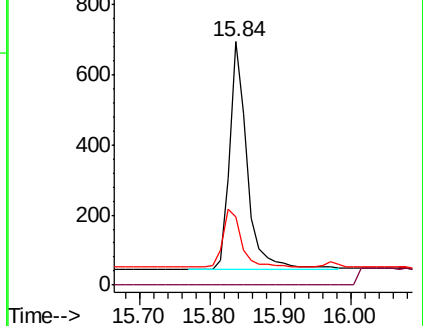
141 26.8 20.9 31.3

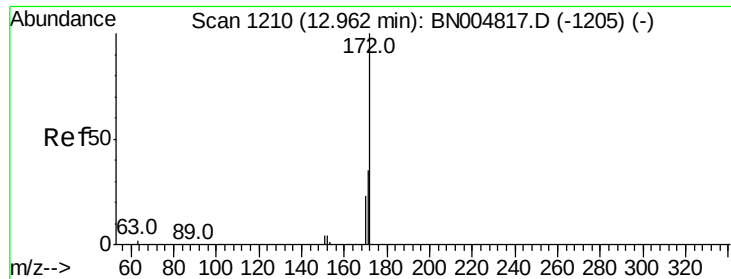


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

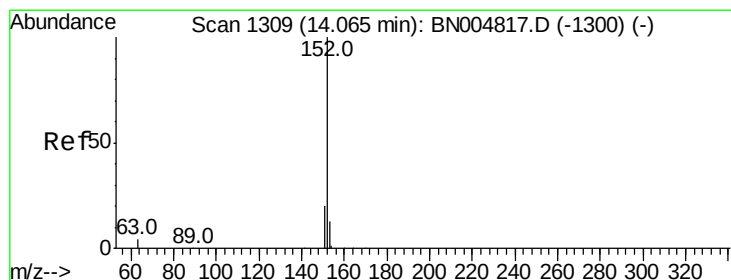
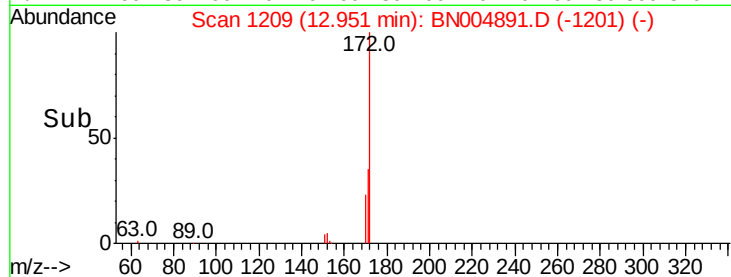
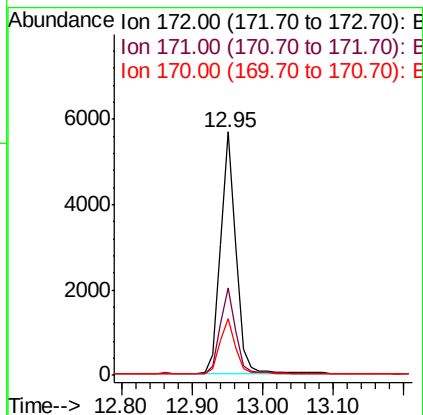
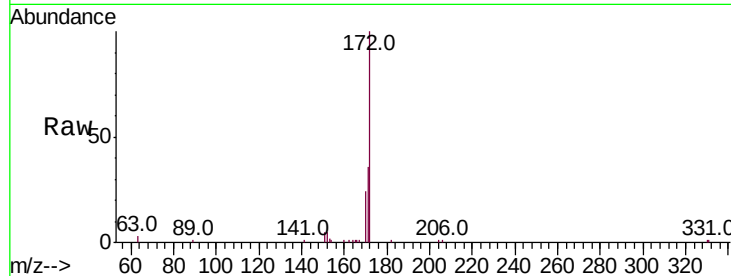




#15  
2-Fluorobiphenyl  
Concen: 0.334 ng  
RT: 12.95 min Scan# 1209  
Delta R.T. -0.01 min  
Lab File: BN004891.D  
Acq: 22 Mar 2019 19:37

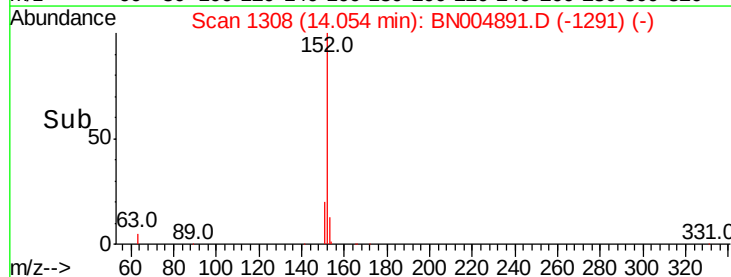
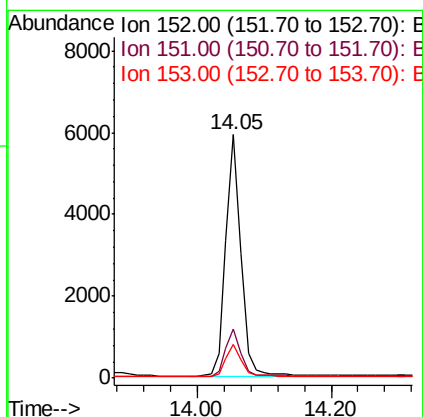
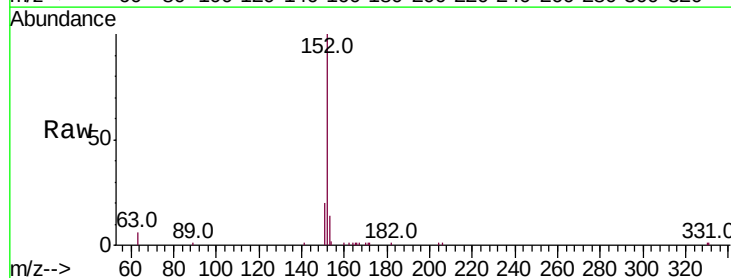
Instrument :  
BNA\_N  
ClientSampleId :  
PB118153BS

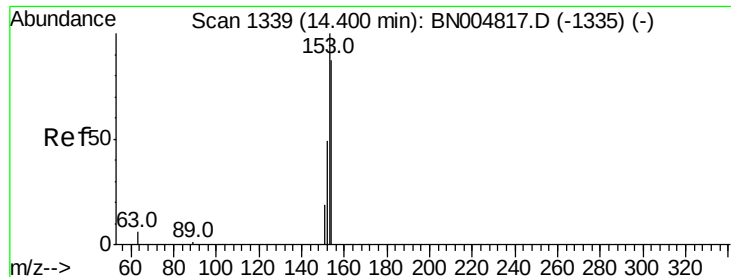
Tot Ion:172 Resp: 8724  
Ion Ratio Lower Upper  
172 100  
171 35.7 28.7 43.1  
170 23.5 18.7 28.1



#16  
Acenaphthylene  
Concen: 0.286 ng  
RT: 14.05 min Scan# 1308  
Delta R.T. -0.01 min  
Lab File: BN004891.D  
Acq: 22 Mar 2019 19:37

Tgt Ion:152 Resp: 9322  
Ion Ratio Lower Upper  
152 100  
151 19.8 16.1 24.1  
153 13.3 10.5 15.7





#17

Acenaphthene

Concen: 0.297 ng

RT: 14.40 min Scan# 1339

Delta R.T. 0.00 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

PB118153BS

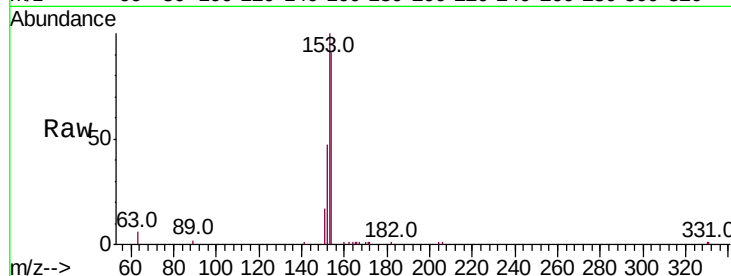
Tot Ion:154 Resp: 6324

Ion Ratio Lower Upper

154 100

153 114.0 91.4 137.2

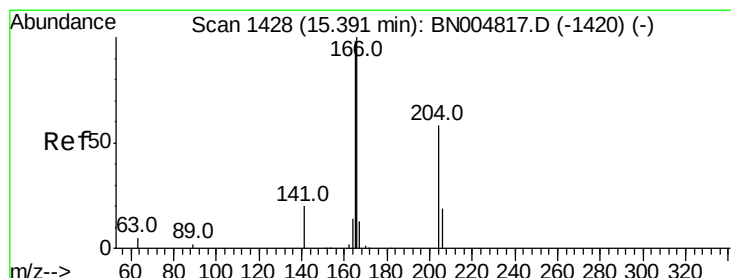
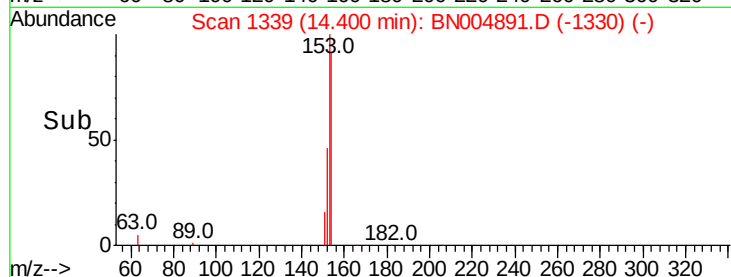
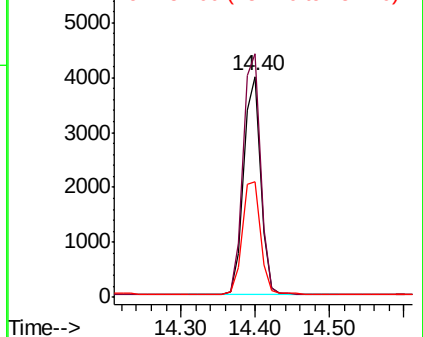
152 55.1 44.2 66.2



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: 0.293 ng

RT: 15.38 min Scan# 1427

Delta R.T. -0.01 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

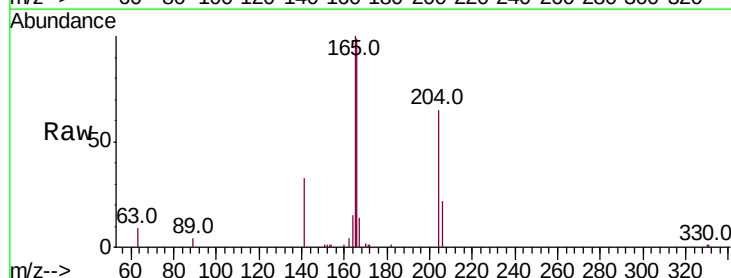
Tgt Ion:166 Resp: 8719

Ion Ratio Lower Upper

166 100

165 98.4 78.2 117.4

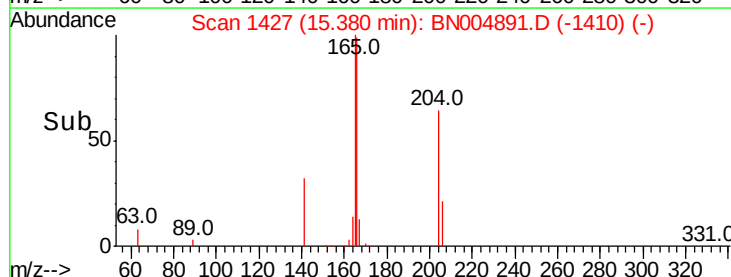
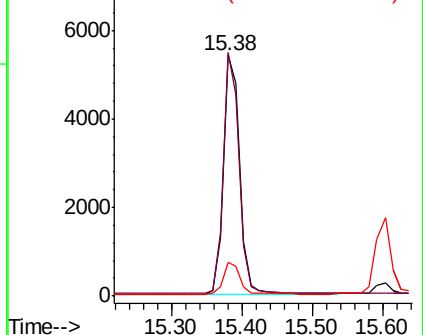
167 13.4 11.0 16.4

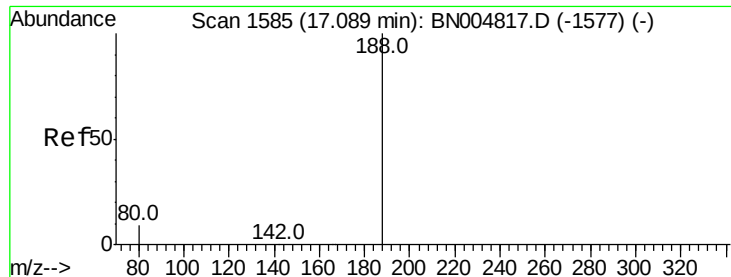


Abundance Ion 166.00 (165.70 to 166.70): E

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: 17.08 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

PB118153BS

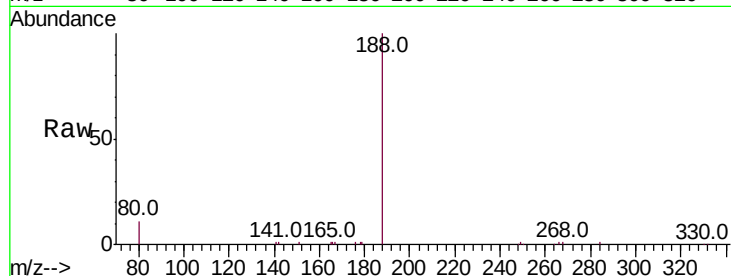
Tot Ion:188 Resp: 16310

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

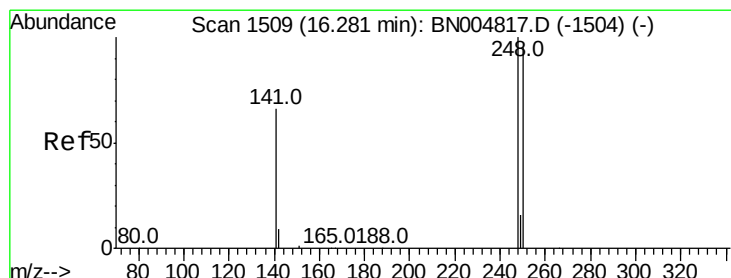
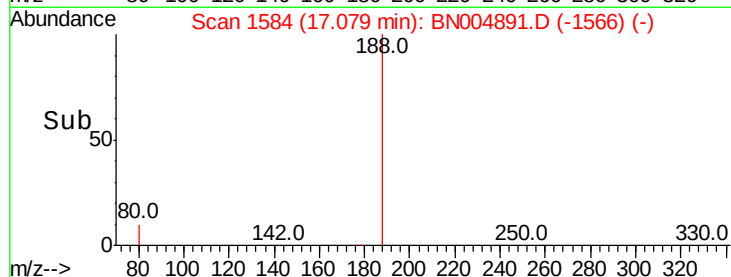
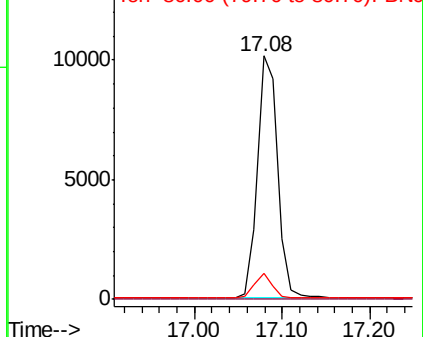
80 10.7 7.4 11.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



#20

4-Bromophenyl-phenylether

Concen: 0.284 ng

RT: 16.27 min Scan# 1508

Delta R.T. -0.01 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

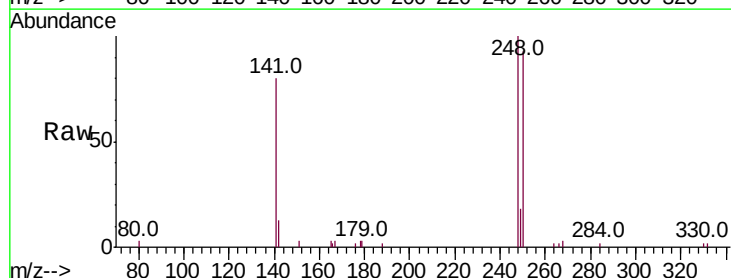
Tgt Ion:248 Resp: 3024

Ion Ratio Lower Upper

248 100

250 92.6 76.2 114.4

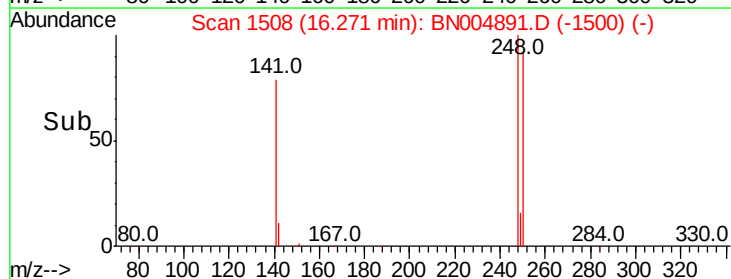
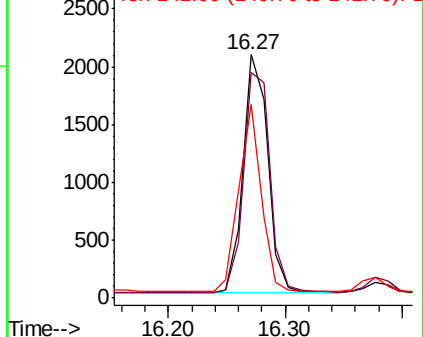
141 79.7 53.9 80.9

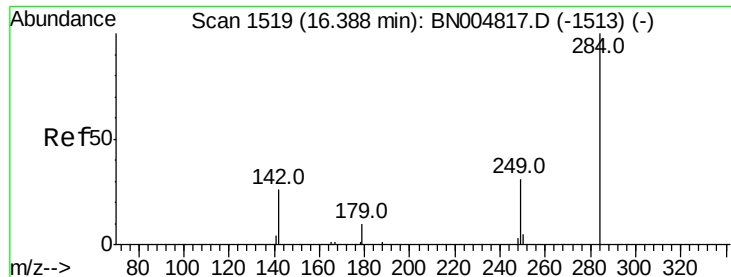


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.270 ng

RT: 16.39 min Scan# 1519

Delta R.T. 0.00 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

PB118153BS

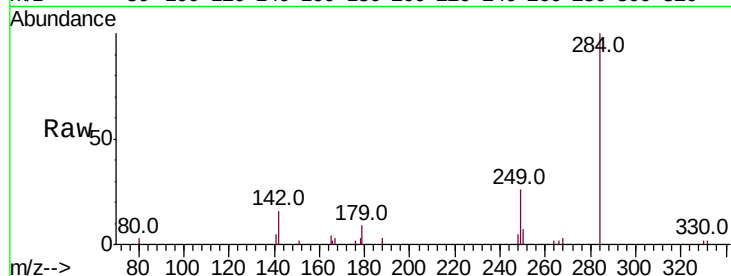
Tot Ion:284 Resp: 3297

Ion Ratio Lower Upper

284 100

142 30.8 22.6 34.0

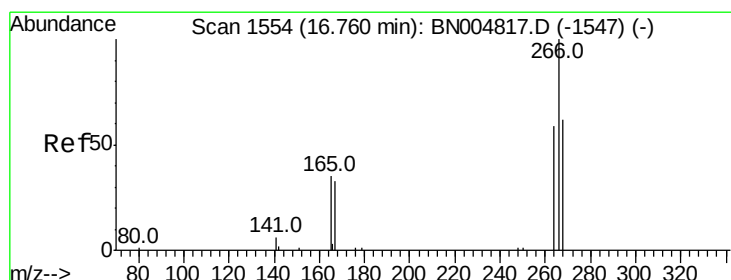
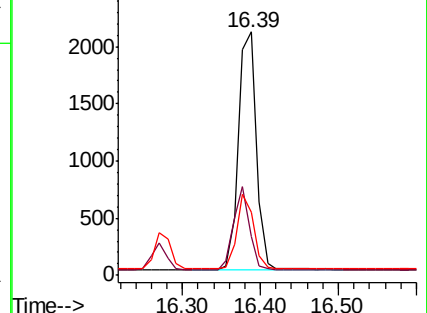
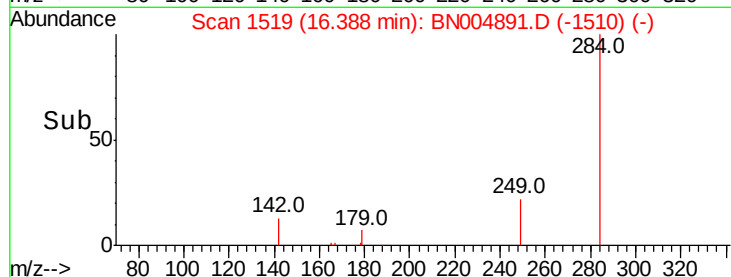
249 29.6 22.5 33.7



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.325 ng

RT: 16.75 min Scan# 1553

Delta R.T. -0.01 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

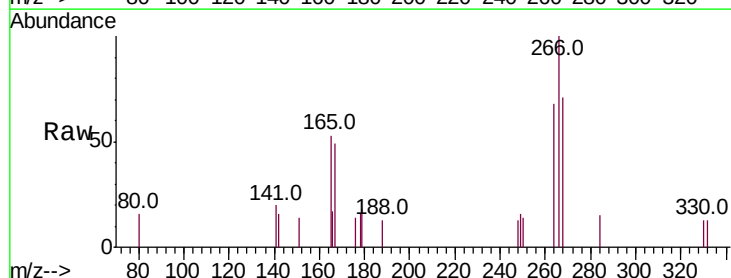
Tgt Ion:266 Resp: 776

Ion Ratio Lower Upper

266 100

264 68.2 53.1 79.7

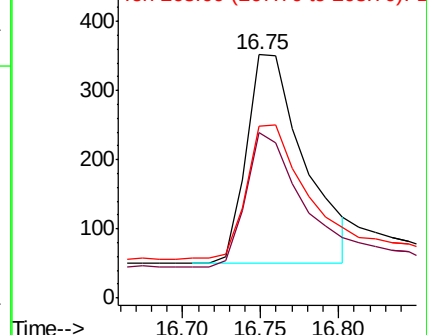
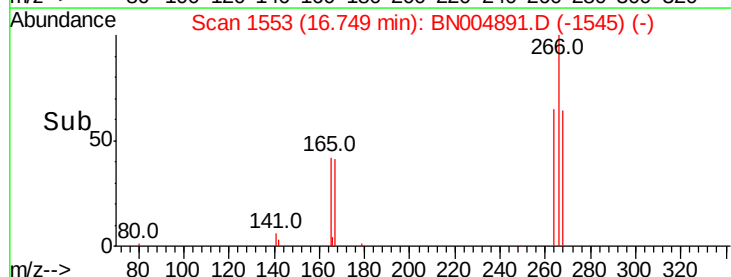
268 70.7 57.7 86.5

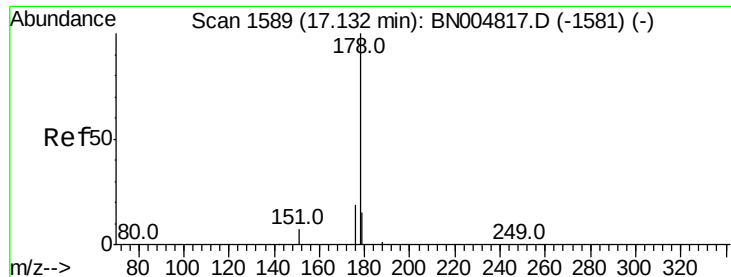


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.292 ng

RT: 17.12 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

PB118153BS

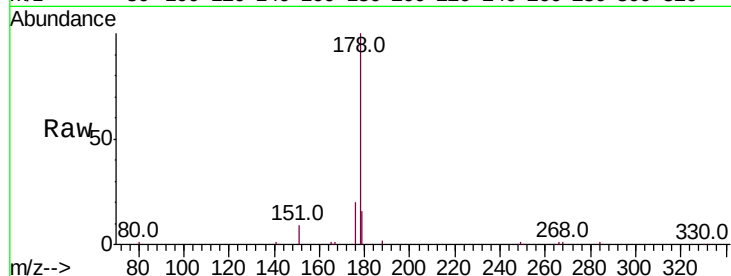
Tot Ion:178 Resp: 15387

Ion Ratio Lower Upper

178 100

176 18.9 14.9 22.3

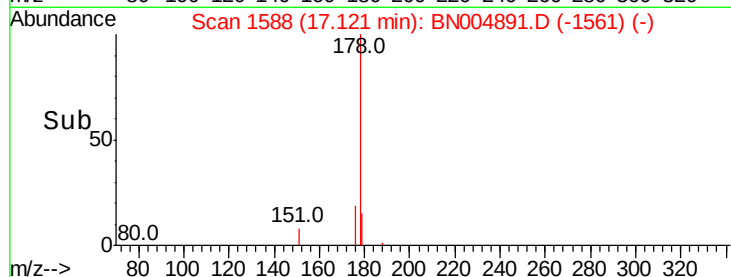
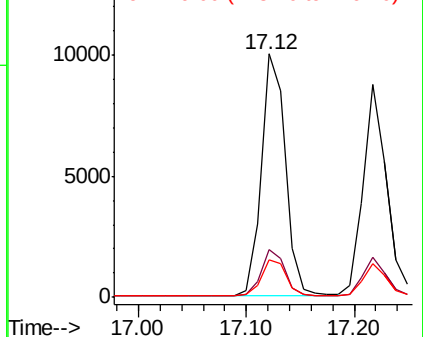
179 15.4 12.1 18.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.285 ng

RT: 17.22 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

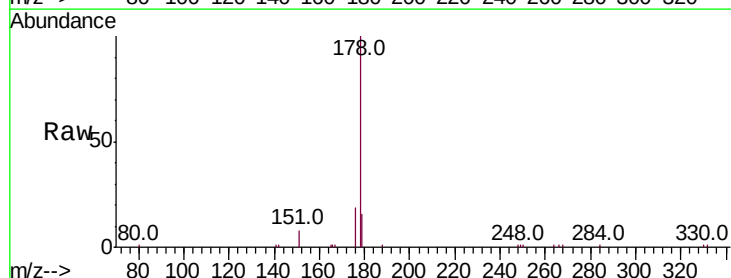
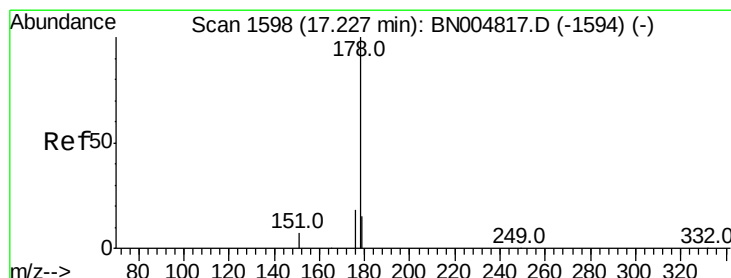
Tgt Ion:178 Resp: 13395

Ion Ratio Lower Upper

178 100

176 18.3 14.5 21.7

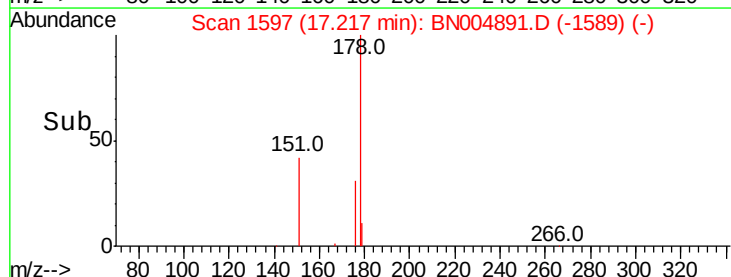
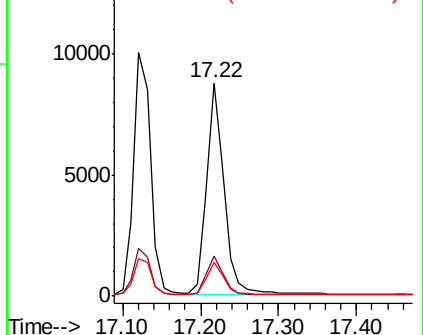
179 15.3 12.2 18.4

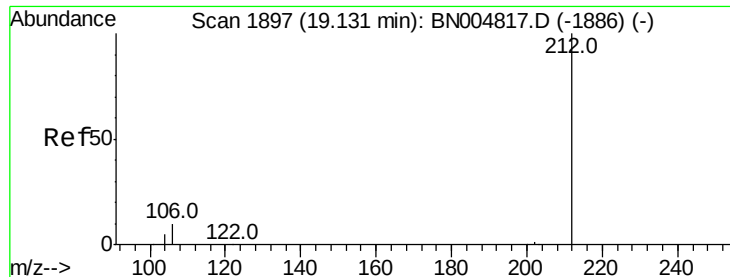


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

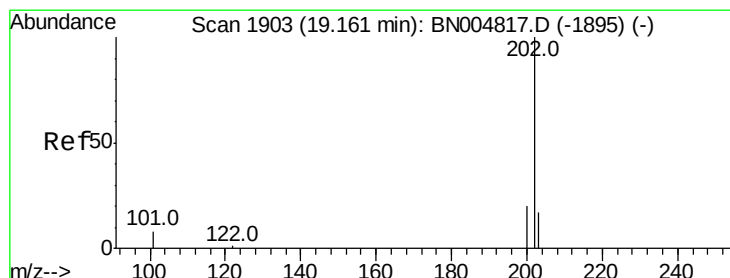
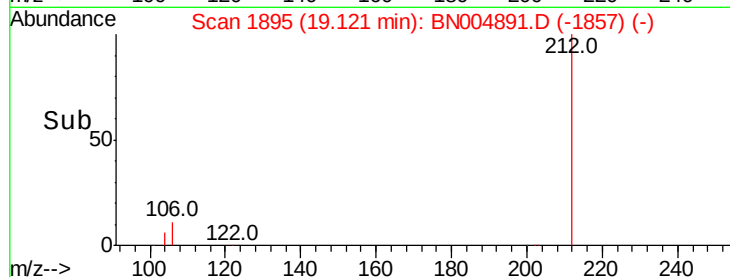
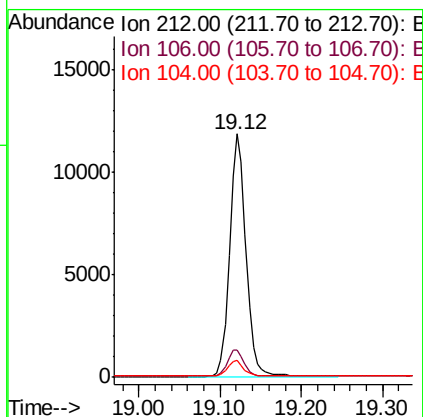
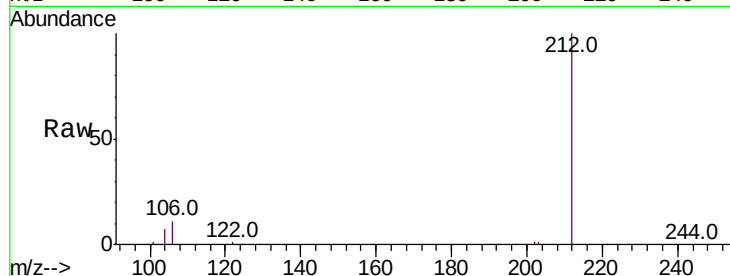




#25  
Fluoranthene-d10  
Concen: 0.301 ng  
RT: 19.12 min Scan# 1895  
Delta R.T. -0.01 min  
Lab File: BN004891.D  
Acq: 22 Mar 2019 19:37

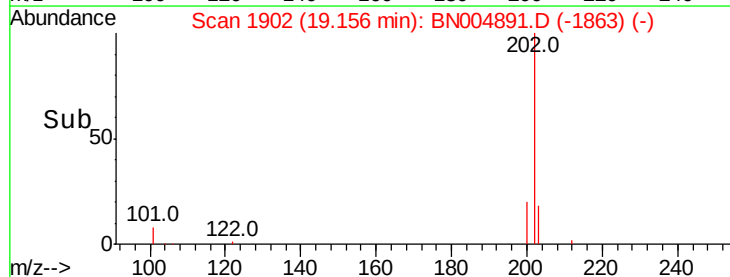
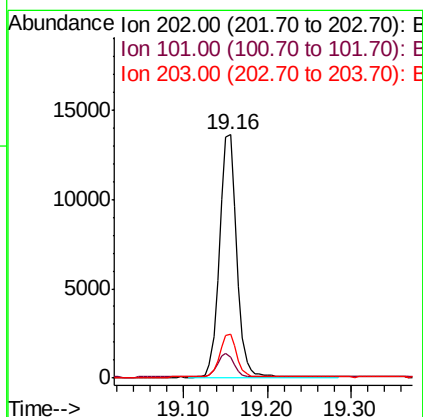
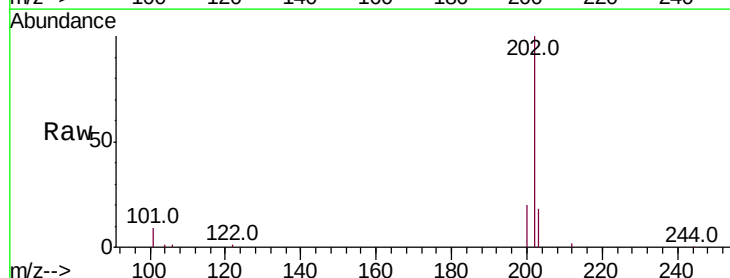
Instrument :  
BNA\_N  
ClientSampleId :  
PB118153BS

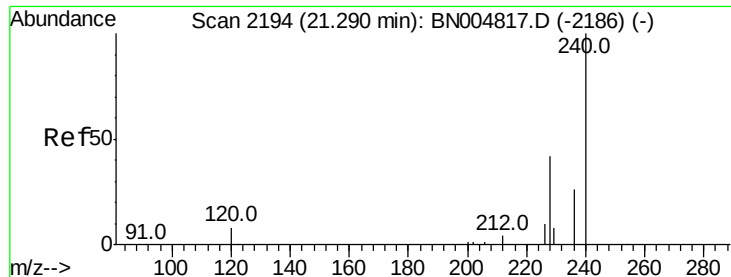
Tot Ion:212 Resp: 16442  
Ion Ratio Lower Upper  
212 100  
106 11.4 8.6 13.0  
104 6.4 4.7 7.1



#26  
Fluoranthene  
Concen: 0.284 ng  
RT: 19.16 min Scan# 1902  
Delta R.T. -0.00 min  
Lab File: BN004891.D  
Acq: 22 Mar 2019 19:37

Tgt Ion:202 Resp: 19252  
Ion Ratio Lower Upper  
202 100  
101 9.7 7.5 11.3  
203 17.3 13.8 20.6





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.29 min Scan# 2194

Delta R.T. 0.00 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

PB118153BS

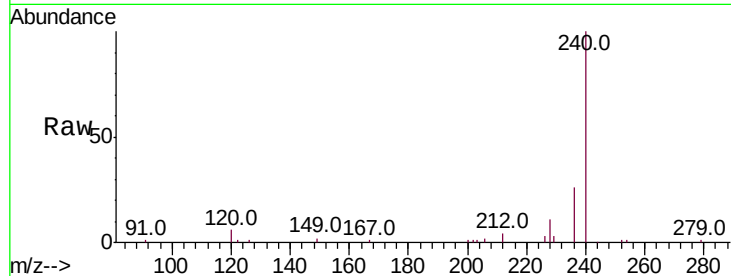
Tot Ion:240 Resp: 19652

Ion Ratio Lower Upper

240 100

120 5.8 7.2 10.8#

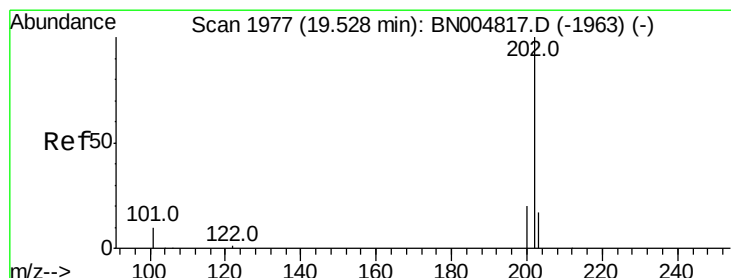
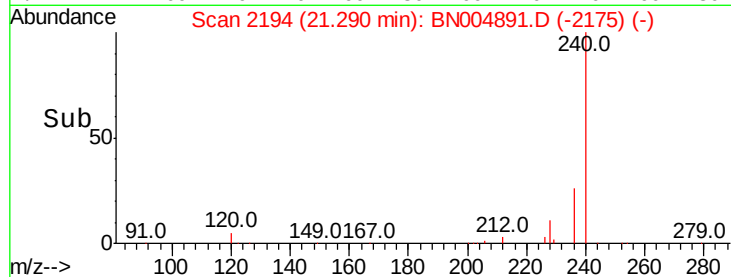
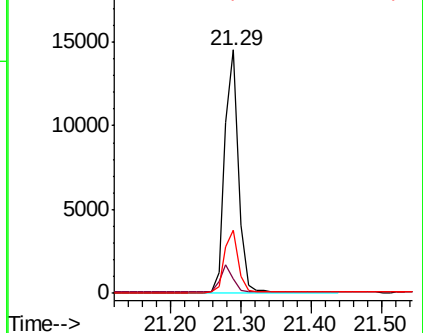
236 26.0 20.9 31.3



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: 0.326 ng

RT: 19.52 min Scan# 1975

Delta R.T. -0.01 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

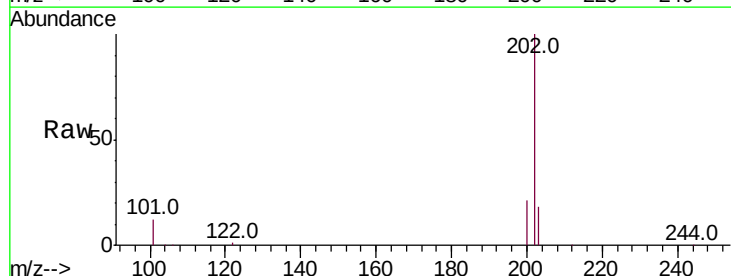
Tgt Ion:202 Resp: 19506

Ion Ratio Lower Upper

202 100

200 20.6 16.3 24.5

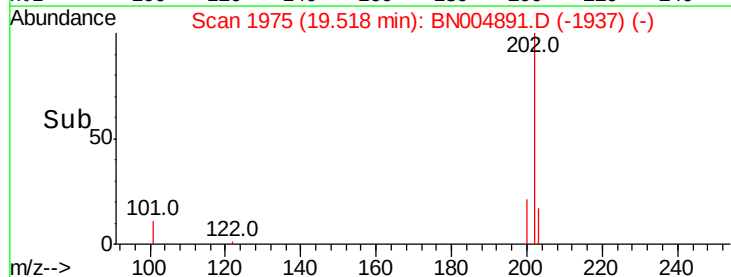
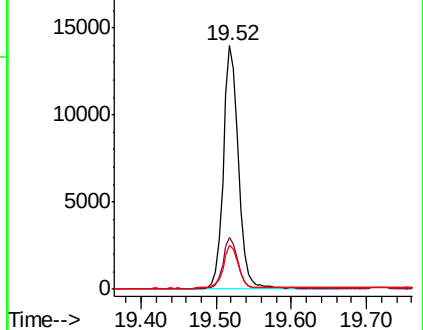
203 18.0 14.0 21.0



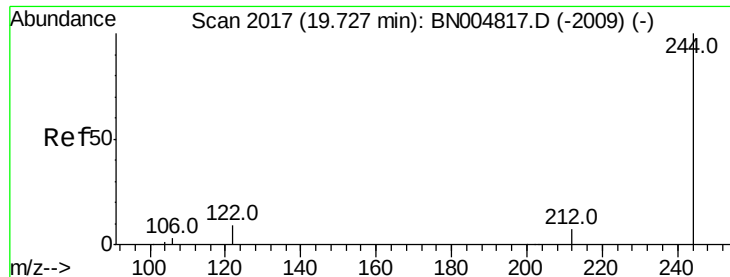
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







#29

Terphenyl-d14

Concen: 0.341 ng

RT: 19.72 min Scan# 2016

Delta R.T. -0.00 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

PB118153BS

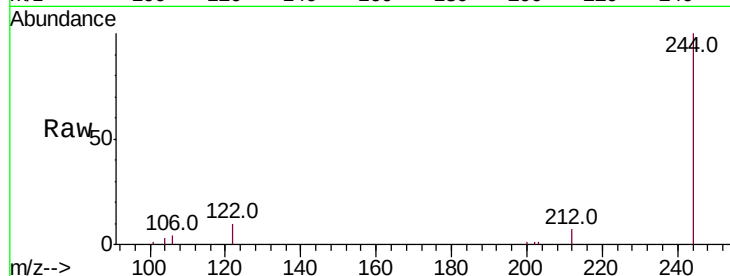
Tot Ion:244 Resp: 13731

Ion Ratio Lower Upper

244 100

212 7.2 5.8 8.6

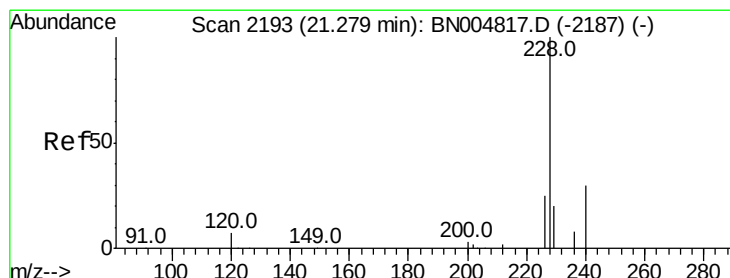
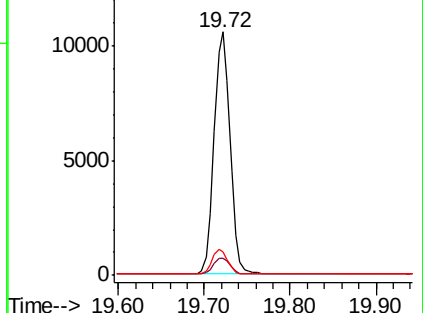
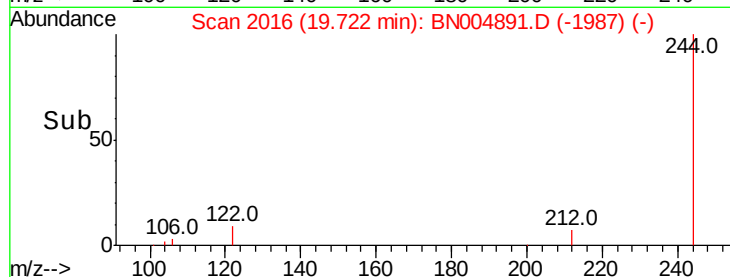
122 9.6 7.9 11.9



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: 0.296 ng

RT: 21.27 min Scan# 2192

Delta R.T. -0.01 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

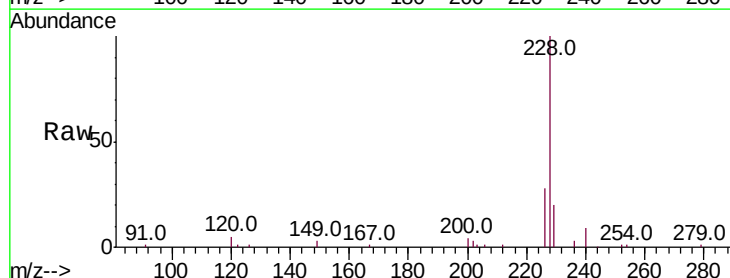
Tgt Ion:228 Resp: 19107

Ion Ratio Lower Upper

228 100

226 27.7 20.6 31.0

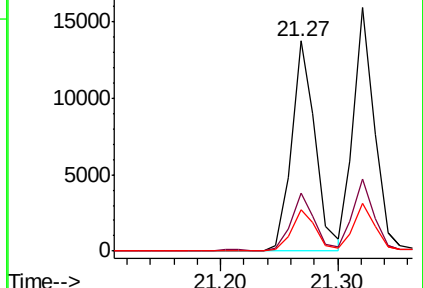
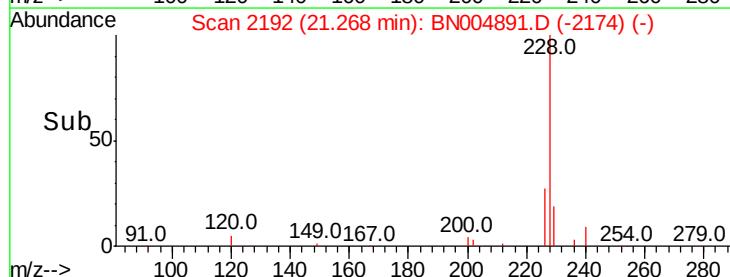
229 19.5 16.2 24.4

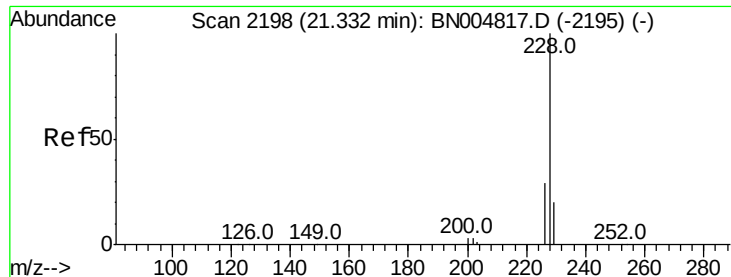


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.289 ng

RT: 21.32 min Scan# 2197

Delta R.T. -0.01 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

Instrument :

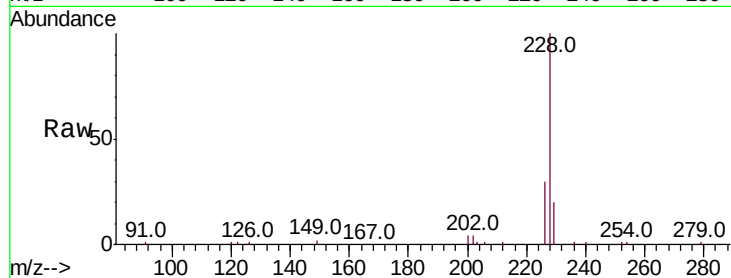
BNA\_N

ClientSampleId :

PB118153BS

Tot Ion:228 Resp: 19650

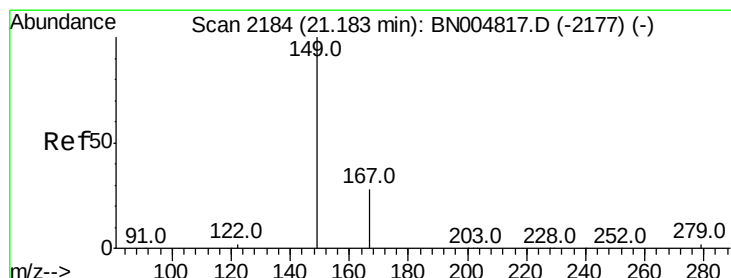
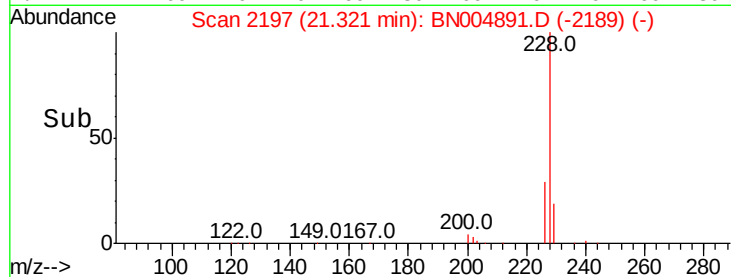
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 29.6  | 23.0  | 34.6  |
| 229 | 19.7  | 16.2  | 24.2  |



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: 0.289 ng

RT: 21.18 min Scan# 2184

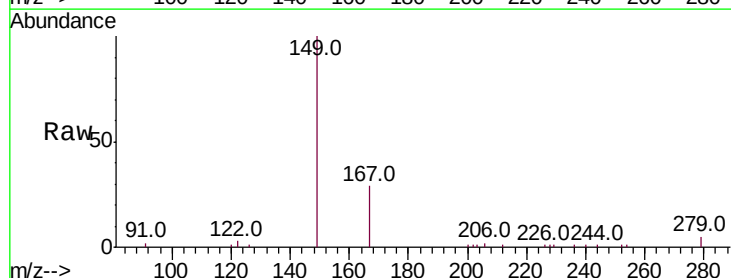
Delta R.T. 0.00 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

Tgt Ion:149 Resp: 7444

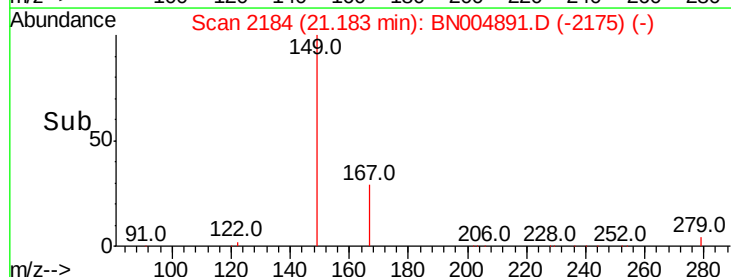
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 28.0  | 23.0  | 34.4  |
| 279 | 5.2   | 4.6   | 6.8   |

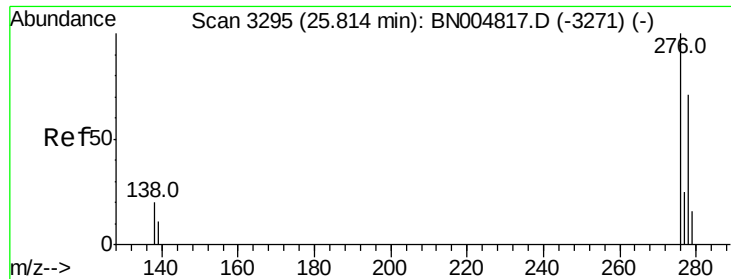


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

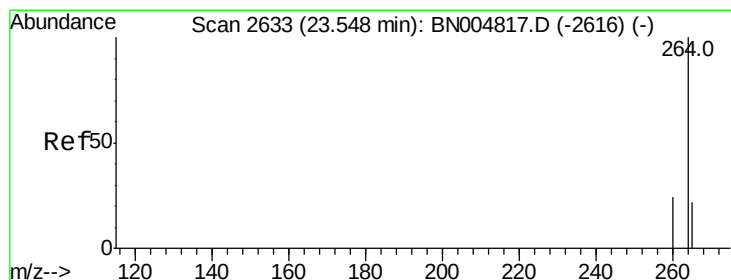
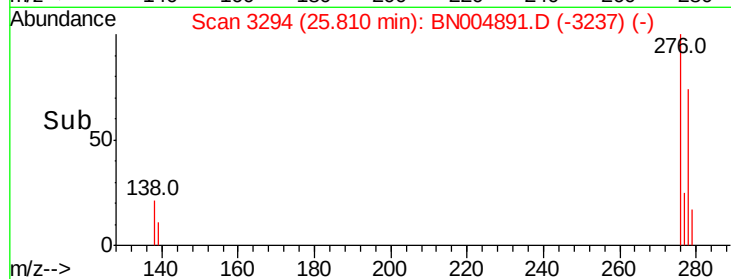
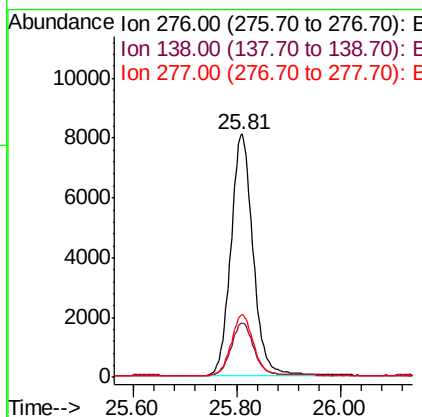
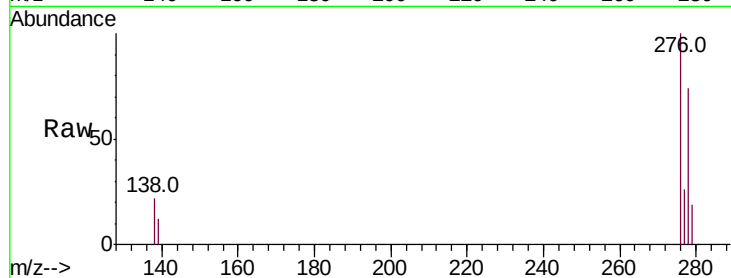




#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.245 ng  
RT: 25.81 min Scan# 3294  
Delta R.T. -0.00 min  
Lab File: BN004891.D  
Acq: 22 Mar 2019 19:37

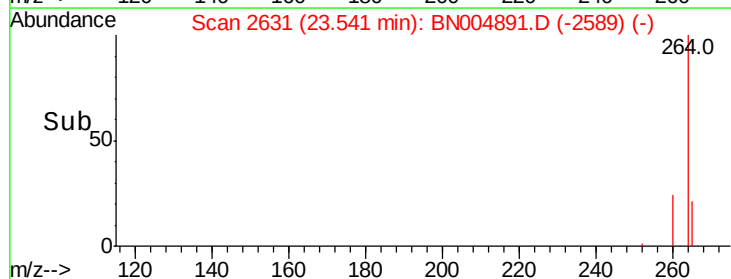
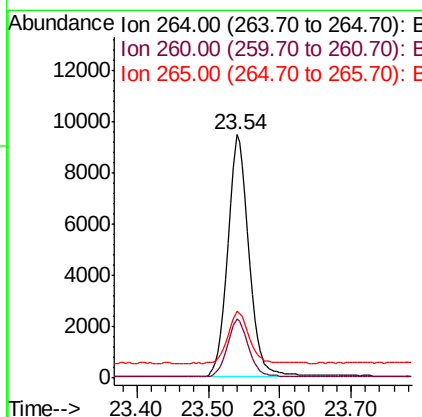
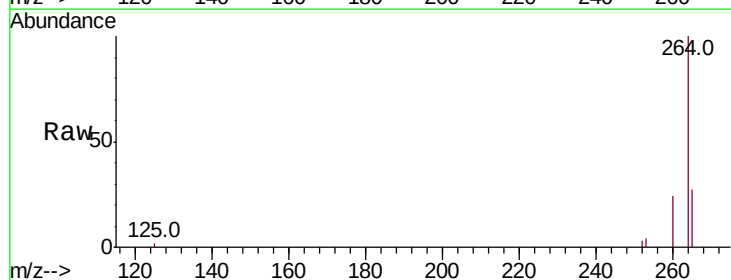
Instrument :  
BNA\_N  
ClientSampleId :  
PB118153BS

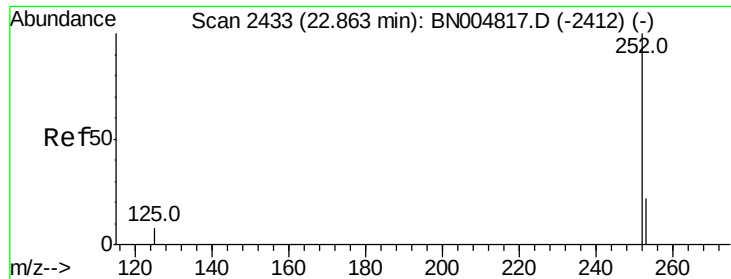
Tot Ion:276 Resp: 24084  
Ion Ratio Lower Upper  
276 100  
138 22.1 16.6 24.8  
277 25.1 20.3 30.5



#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.54 min Scan# 2631  
Delta R.T. -0.01 min  
Lab File: BN004891.D  
Acq: 22 Mar 2019 19:37

Tgt Ion:264 Resp: 19566  
Ion Ratio Lower Upper  
264 100  
260 24.5 19.5 29.3  
265 27.4 23.1 34.7





#35

Benzo(b)fluoranthene

Concen: 0.294 ng

RT: 22.86 min Scan# 2432

Delta R.T. -0.00 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

PB118153BS

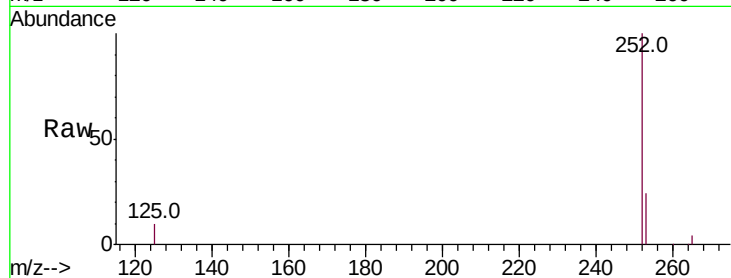
Tot Ion:252 Resp: 20838

Ion Ratio Lower Upper

252 100

253 24.2 19.0 28.4

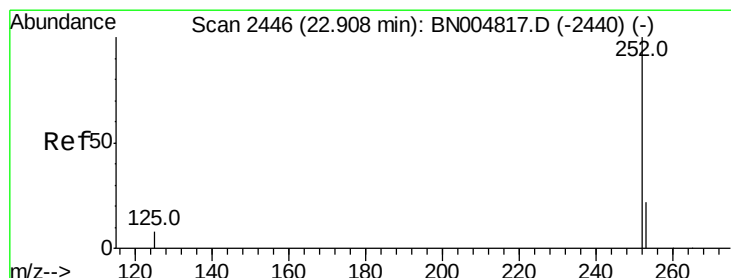
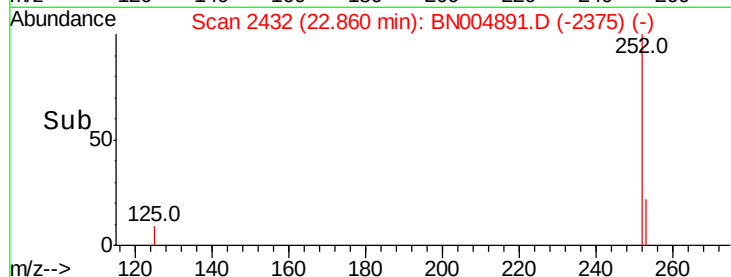
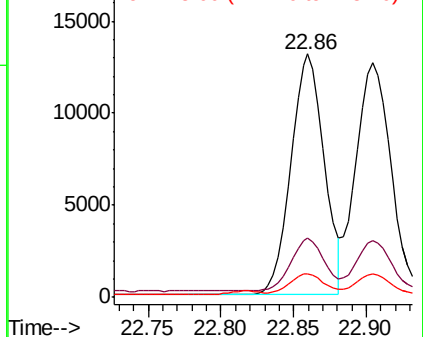
125 9.8 7.4 11.2



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: 0.308 ng

RT: 22.90 min Scan# 2445

Delta R.T. -0.00 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

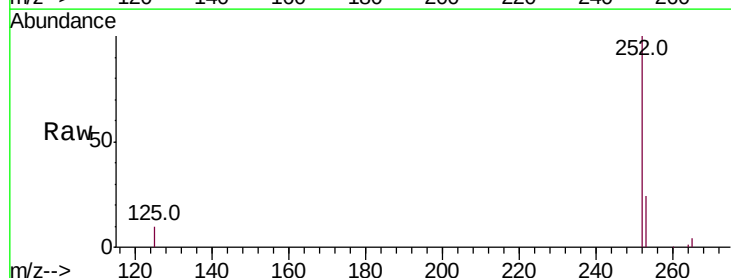
Tgt Ion:252 Resp: 21455

Ion Ratio Lower Upper

252 100

253 24.3 19.3 28.9

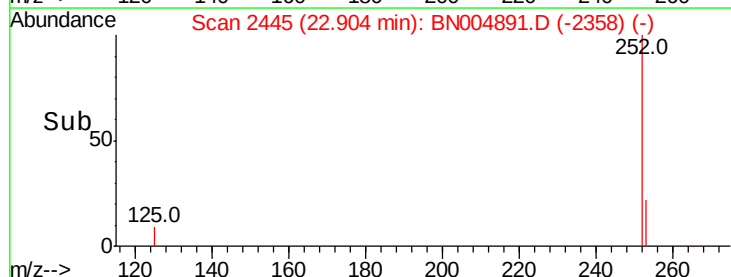
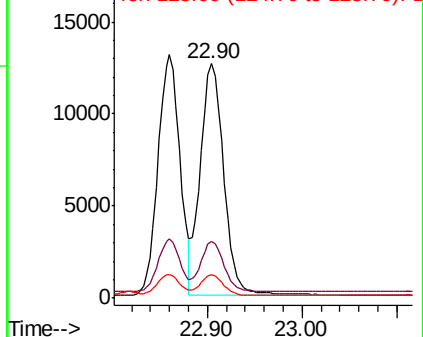
125 10.0 7.4 11.0

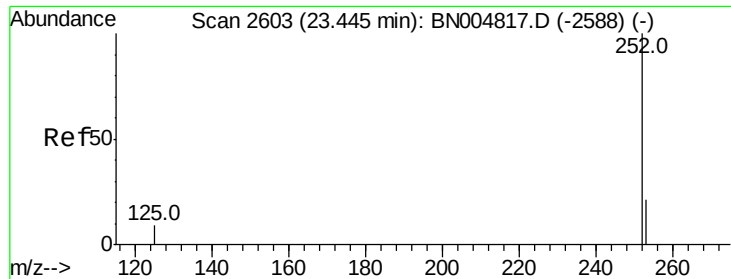


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.299 ng

RT: 23.44 min Scan# 2602

Delta R.T. -0.00 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

PB118153BS

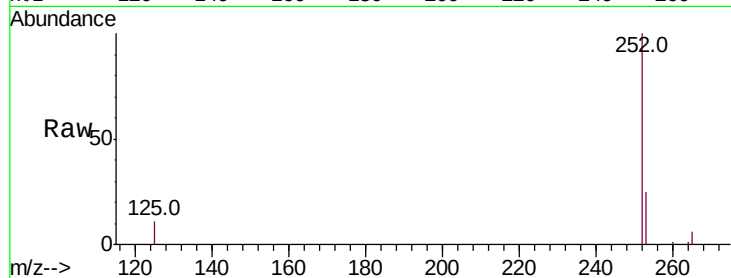
Tot Ion:252 Resp: 19388

Ion Ratio Lower Upper

252 100

253 25.1 19.7 29.5

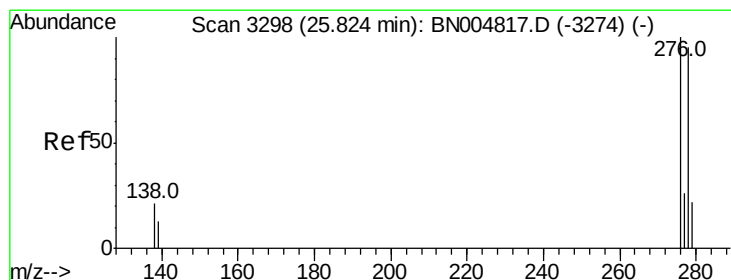
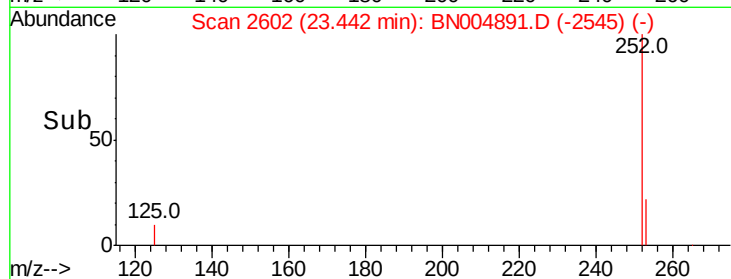
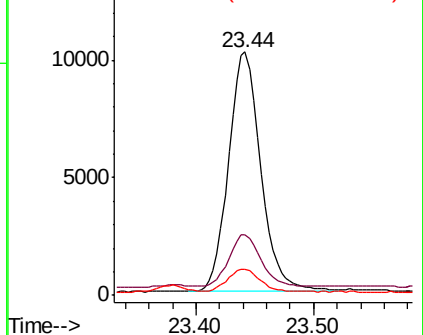
125 10.8 8.3 12.5



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: 0.268 ng

RT: 25.82 min Scan# 3297

Delta R.T. -0.00 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

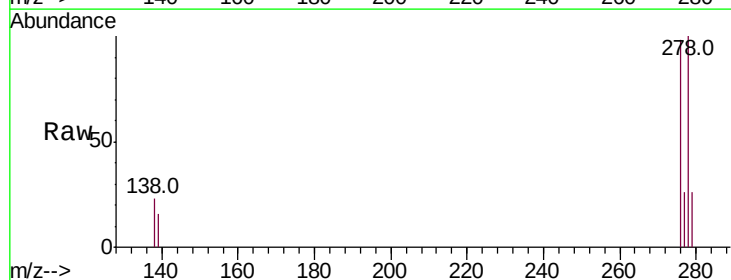
Tgt Ion:278 Resp: 20133

Ion Ratio Lower Upper

278 100

139 15.5 11.7 17.5

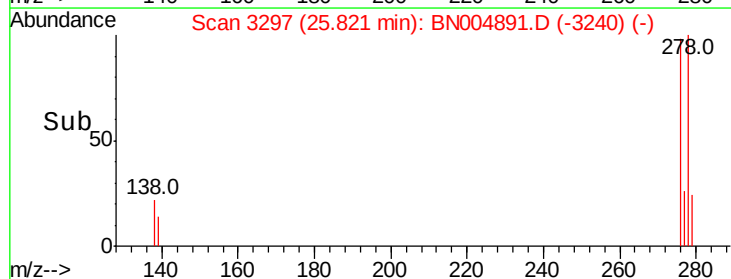
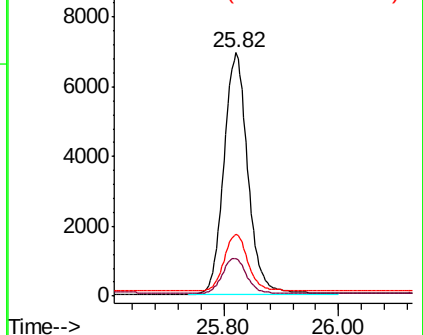
279 25.5 19.9 29.9

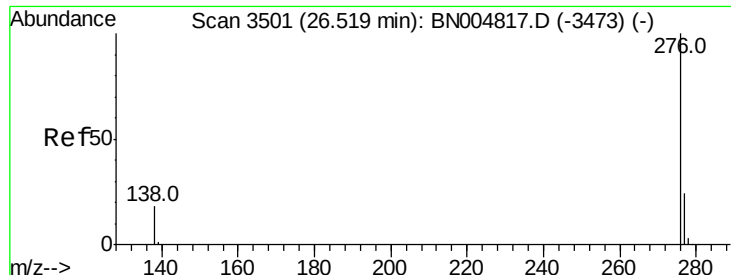


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.267 ng

RT: 26.51 min Scan# 3498

Delta R.T. -0.01 min

Lab File: BN004891.D

Acq: 22 Mar 2019 19:37

Instrument :

BNA\_N

ClientSampleId :

PB118153BS

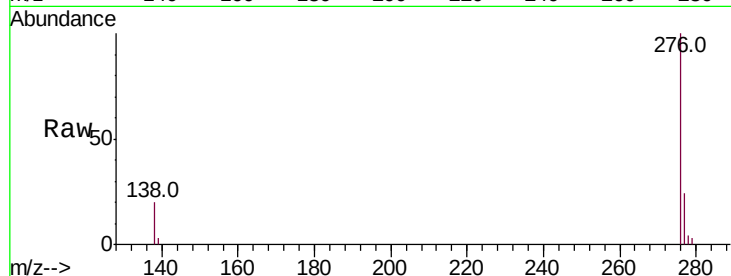
Tot Ion:276 Resp: 20493

Ion Ratio Lower Upper

276 100

277 24.4 19.7 29.5

138 19.9 14.6 22.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

