

Data File : BN004292.D  
Acq On : 29 Dec 2018 09:42  
Operator : JU/SJ  
Sample : J6432-07  
Misc : GCMS Confirmation  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A41Y6

Quant Time: Dec 30 22:16:00 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN121218MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Dec 28 03:12:04 2018  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82  | 152  | 28794    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.61 | 136  | 133811   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.46 | 164  | 89854    | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.20 | 188  | 210425   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.39 | 240  | 236842   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.72 | 264  | 221083   | 20.00 | ng/ul | 0.00     |

System Monitoring Compounds

|                                |       |     |        |       |       |       |
|--------------------------------|-------|-----|--------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 0.00  | 96  | 0      | 0.00  | ng/uL |       |
| 5) Phenol-d5                   | 0.00  | 99  | 0      | 0.00  | ng/ul |       |
| 7) Bis-(2-Chloroethyl)ether-d  | 0.00  | 67  | 0      | 0.00  | ng/ul |       |
| 9) 2-Chlorophenol-d4           | 0.00  | 132 | 0      | 0.00  | ng/ul |       |
| 13) 4-Methylphenol-d8          | 0.00  | 113 | 0      | 0.00  | ng/ul |       |
| 19) Nitrobenzene-d5            | 0.00  | 128 | 0      | 0.00  | ng/ul |       |
| 22) 2-Nitrophenol-d4           | 0.00  | 143 | 0      | 0.00  | ng/ul |       |
| 26) 2,4-Dichlorophenol-d3      | 0.00  | 165 | 0      | 0.00  | ng/ul |       |
| 29) 4-Chloroaniline-d4         | 0.00  | 131 | 0      | 0.00  | ng/ul |       |
| 43) Dimethylphthalate-d6       | 0.00  | 166 | 0      | 0.00  | ng/ul |       |
| 46) Acenaphthylene-d8          | 0.00  | 160 | 0      | 0.00  | ng/ul |       |
| 51) 4-Nitrophenol-d4           | 0.00  | 143 | 0      | 0.00  | ng/ul |       |
| 57) Fluorene-d10               | 0.00  | 176 | 0      | 0.00  | ng/ul |       |
| 62) 4,6-Dinitro-2-methylphenol | 0.00  | 200 | 0      | 0.00  | ng/ul |       |
| 70) Anthracene-d10             | 17.20 | 188 | 210425 | 19.79 | ng/ul | -0.11 |
| 78) Pyrene-d10                 | 0.00  | 212 | 0      | 0.00  | ng/ul |       |
| 89) Benzo(a)pyrene-d12         | 23.72 | 264 | 216150 | 18.02 | ng/ul | 0.15  |

Target Compounds

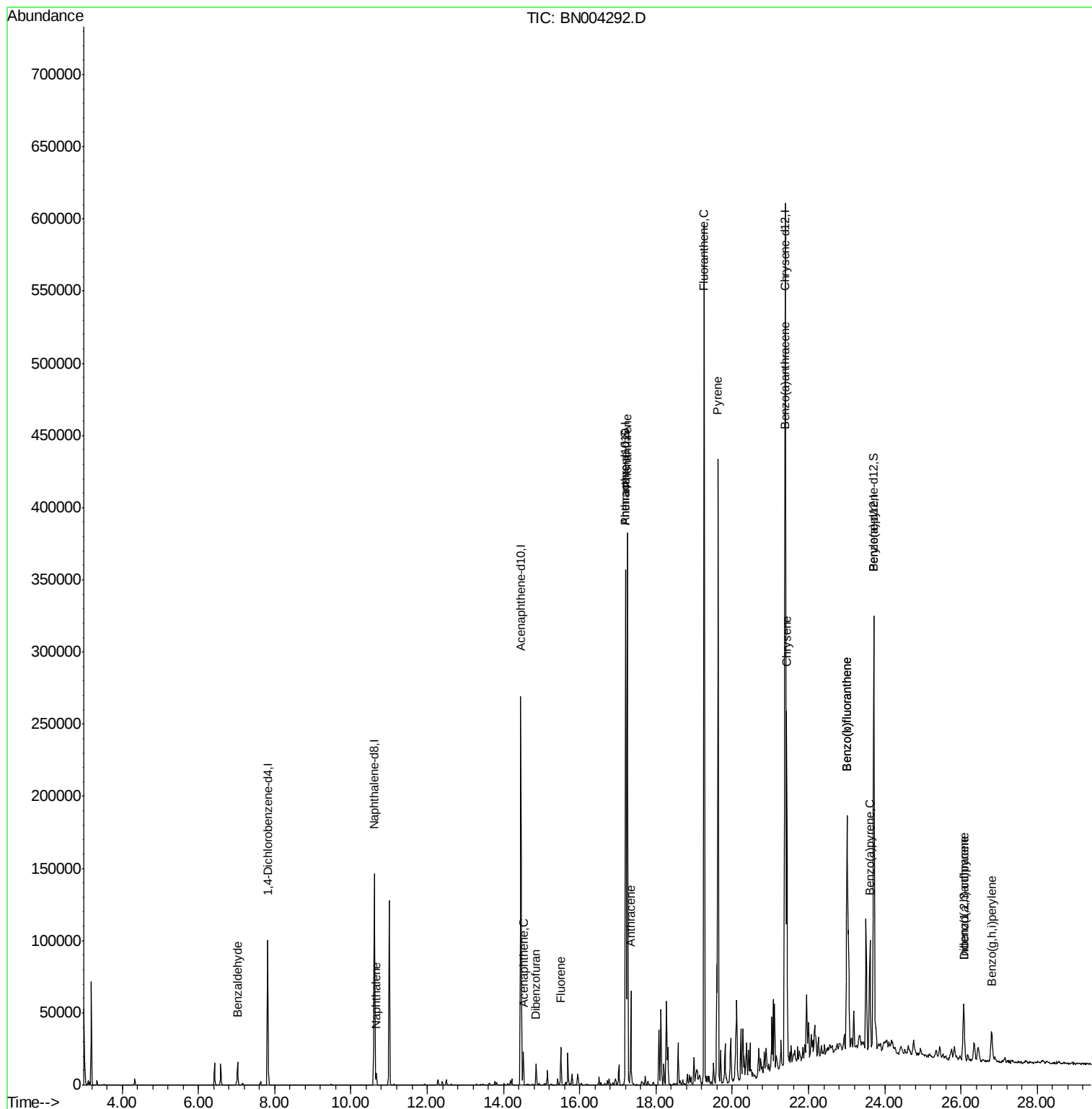
|                            |       |     |        |        | Qvalue |     |
|----------------------------|-------|-----|--------|--------|--------|-----|
| 4) Benzaldehyde            | 7.03  | 77  | 1098   | 2.269  | ng/ul# | 1   |
| 28) Naphthalene            | 10.66 | 128 | 8054   | 1.122  | ng/ul  | 100 |
| 49) Acenaphthene           | 14.52 | 153 | 9992   | 1.548  | ng/ul  | 99  |
| 53) Dibenzofuran           | 14.86 | 168 | 11572  | 1.263  | ng/ul  | 100 |
| 58) Fluorene               | 15.51 | 166 | 13244  | 1.736  | ng/ul# | 99  |
| 69) Phenanthrene           | 17.25 | 178 | 240316 | 19.766 | ng/ul  | 99  |
| 71) Anthracene             | 17.34 | 178 | 42729  | 3.429  | ng/ul  | 99  |
| 76) Fluoranthene           | 19.26 | 202 | 352122 | 23.628 | ng/ul  | 98  |
| 79) Pyrene                 | 19.63 | 202 | 260796 | 19.710 | ng/ul  | 98  |
| 82) Benzo(a)anthracene     | 21.37 | 228 | 143893 | 9.743  | ng/ul  | 99  |
| 84) Chrysene               | 21.43 | 228 | 135357 | 9.785  | ng/ul  | 99  |
| 87) Benzo(b)fluoranthene   | 23.01 | 252 | 141241 | 10.665 | ng/ul  | 97  |
| 88) Benzo(k)fluoranthene   | 23.01 | 252 | 141241 | 11.390 | ng/ul  | 97  |
| 90) Benzo(a)pyrene         | 23.61 | 252 | 56876  | 4.459  | ng/ul  | 98  |
| 91) Indeno(1,2,3-cd)pyrene | 26.07 | 276 | 40120  | 2.413  | ng/ul  | 97  |
| 92) Dibenzo(a,h)anthracene | 26.07 | 278 | 14215  | 1.029  | ng/ul# | 95  |
| 93) Benzo(g,h,i)perylene   | 26.80 | 276 | 25888  | 1.860  | ng/ul  | 98  |

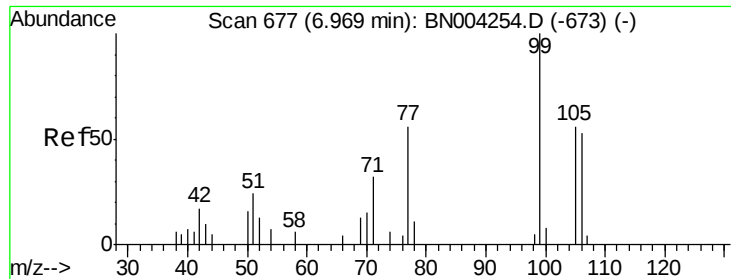
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#4

Benzaldehyde

Concen: 2.269 ng/ul

RT: 7.03 min Scan# 687

Delta R.T. 0.05 min

Lab File: BN004292.D

Acq: 29 Dec 2018 09:42

Instrument :

BNA\_N

ClientSampleId :

A41Y6

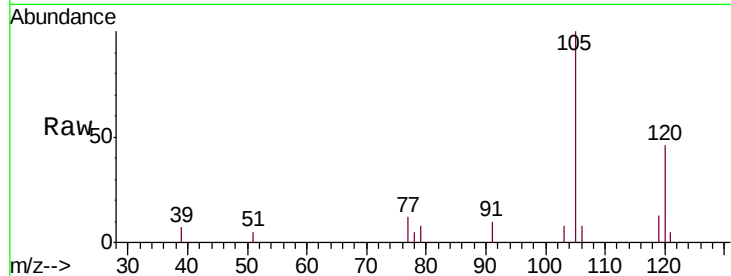
Tgt Ion: 77 Resp: 1098

Ion Ratio Lower Upper

77 100

105 865.2 80.2 120.4#

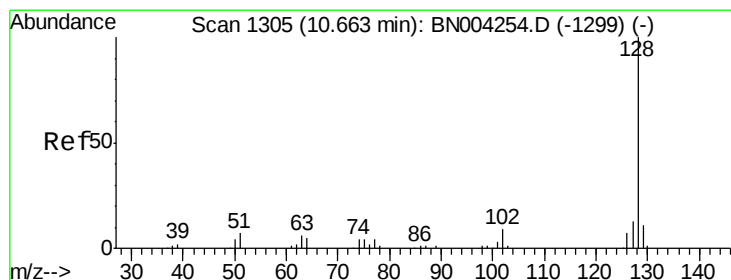
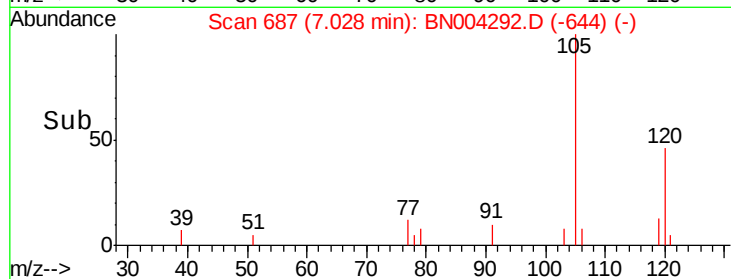
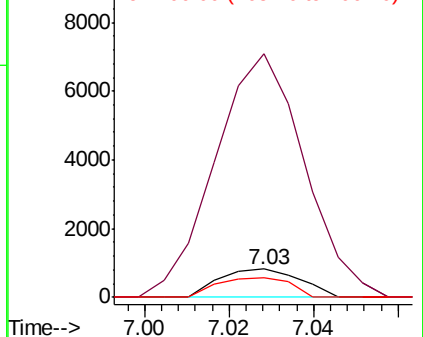
106 67.4 78.8 118.2#



Abundance Ion 77.00 (76.70 to 77.70): BN004254.D (-673) (-)

Ion 105.00 (104.70 to 105.70): BN004254.D (-673) (-)

Ion 106.00 (105.70 to 106.70): BN004254.D (-673) (-)



#28

Naphthalene

Concen: 1.122 ng/ul

RT: 10.66 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BN004292.D

Acq: 29 Dec 2018 09:42

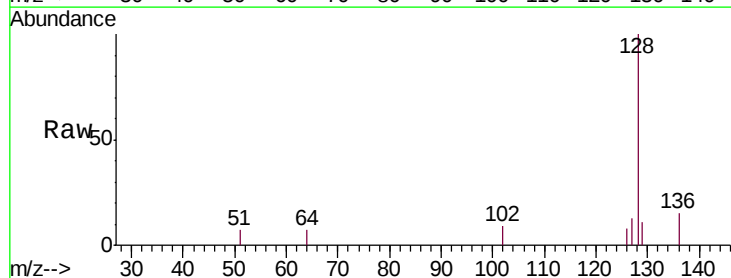
Tgt Ion: 128 Resp: 8054

Ion Ratio Lower Upper

128 100

129 10.9 8.6 12.8

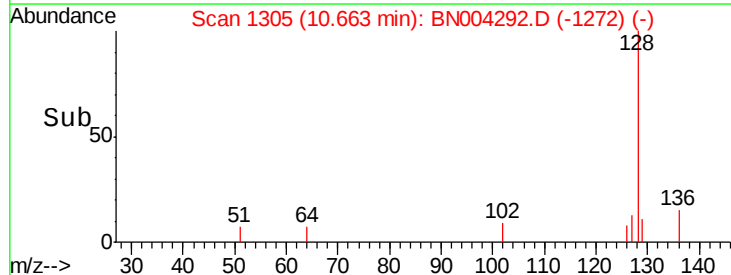
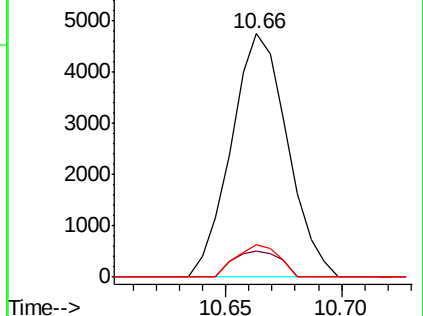
127 13.3 10.6 16.0

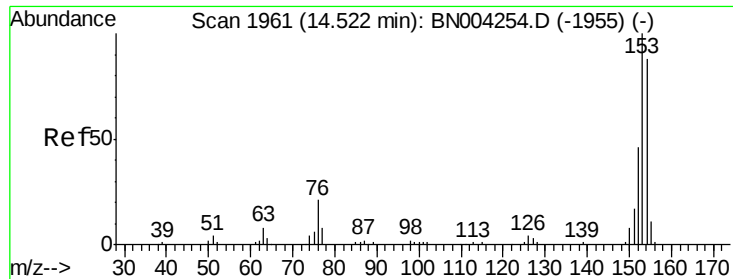


Abundance Ion 128.00 (127.70 to 128.70): BN004254.D (-1299) (-)

Ion 129.00 (128.70 to 129.70): BN004254.D (-1299) (-)

Ion 127.00 (126.70 to 127.70): BN004254.D (-1299) (-)





#49

Acenaphthene

Concen: 1.548 ng/ul

RT: 14.52 min Scan# 1961

Delta R.T. -0.01 min

Lab File: BN004292.D

Acq: 29 Dec 2018 09:42

Instrument :

BNA\_N

ClientSampleId :

A41Y6

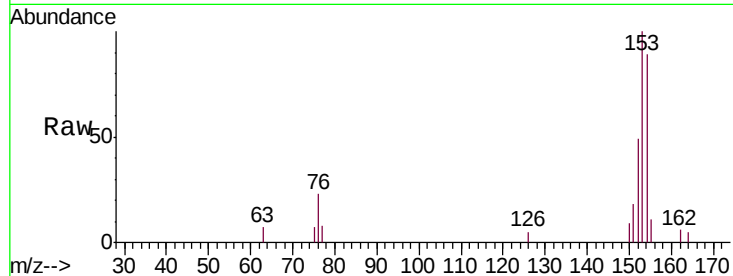
Tgt Ion:153 Resp: 9992

Ion Ratio Lower Upper

153 100

152 48.7 37.8 56.6

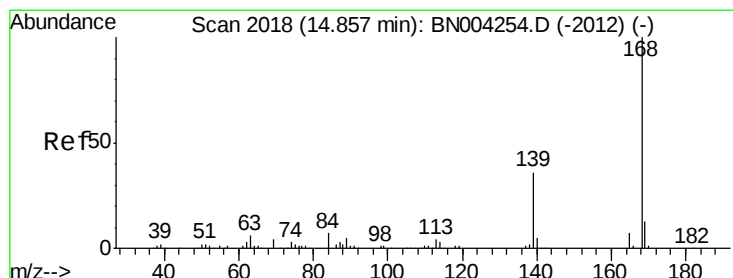
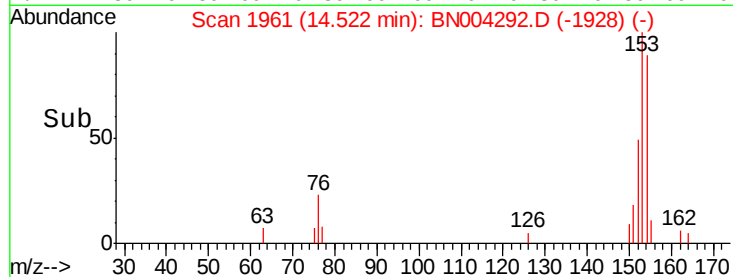
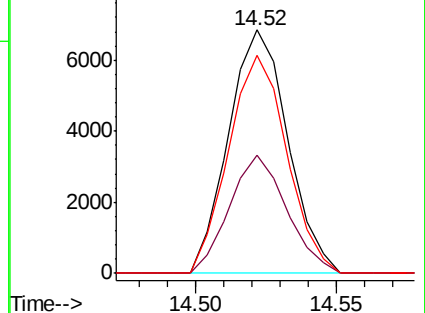
154 89.4 71.0 106.6



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#53

Dibenzofuran

Concen: 1.263 ng/ul

RT: 14.86 min Scan# 2018

Delta R.T. -0.01 min

Lab File: BN004292.D

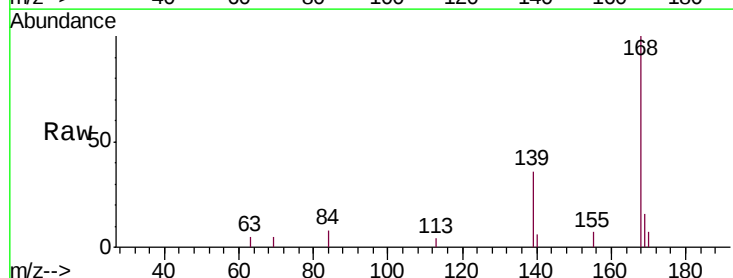
Acq: 29 Dec 2018 09:42

Tgt Ion:168 Resp: 11572

Ion Ratio Lower Upper

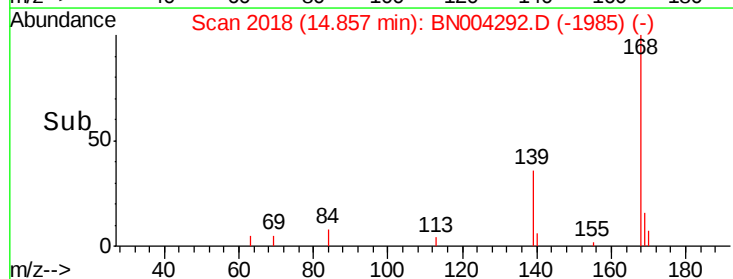
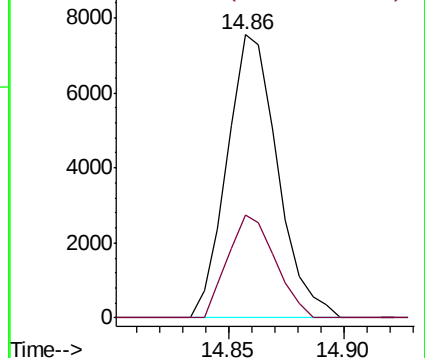
168 100

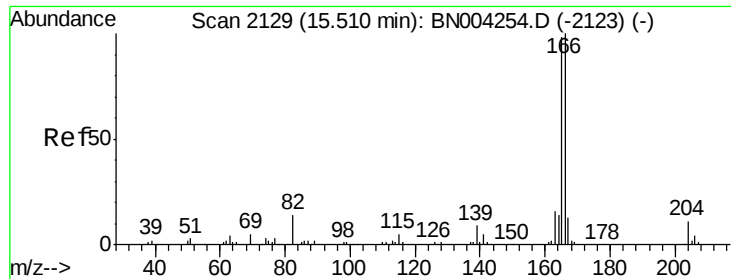
139 36.1 28.8 43.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 1.736 ng/ul

RT: 15.51 min Scan# 2129

Delta R.T. -0.00 min

Lab File: BN004292.D

Acq: 29 Dec 2018 09:42

Instrument :

BNA\_N

ClientSampleId :

A41Y6

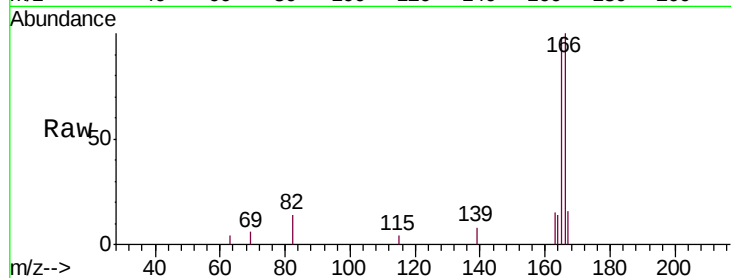
Tgt Ion:166 Resp: 13244

Ion Ratio Lower Upper

166 100

165 97.6 78.6 117.8

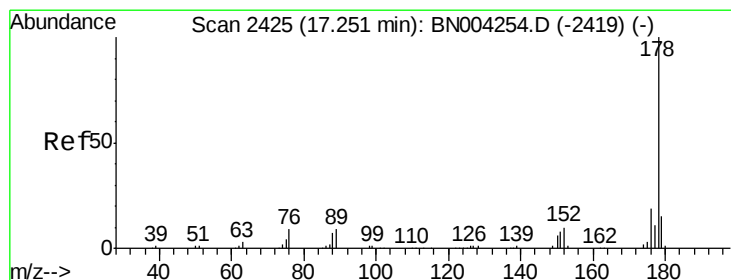
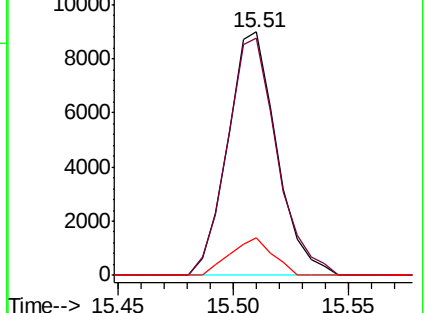
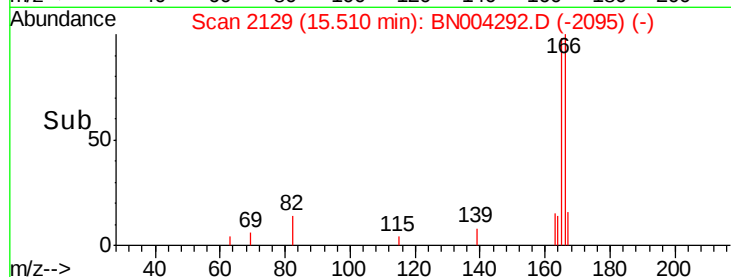
167 15.5 10.3 15.5#



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



#69

Phenanthrene

Concen: 19.766 ng/ul

RT: 17.25 min Scan# 2424

Delta R.T. -0.01 min

Lab File: BN004292.D

Acq: 29 Dec 2018 09:42

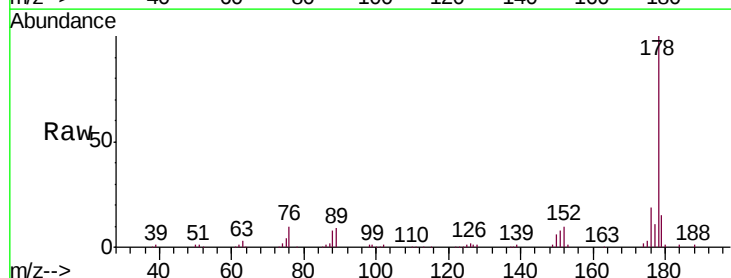
Tgt Ion:178 Resp: 240316

Ion Ratio Lower Upper

178 100

179 15.4 12.1 18.1

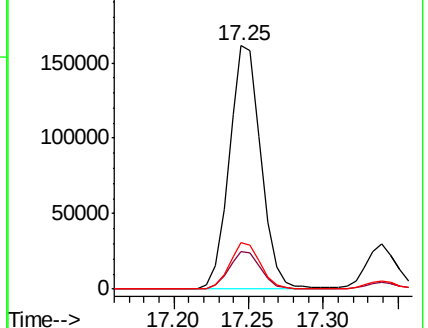
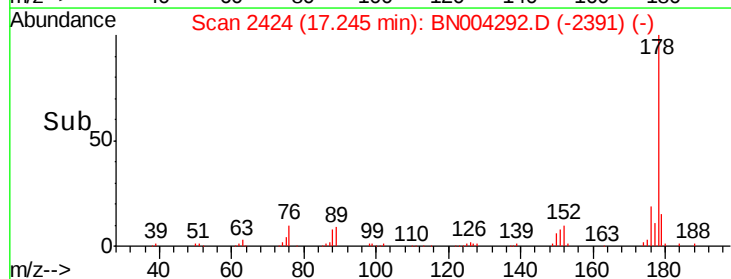
176 19.1 15.0 22.6

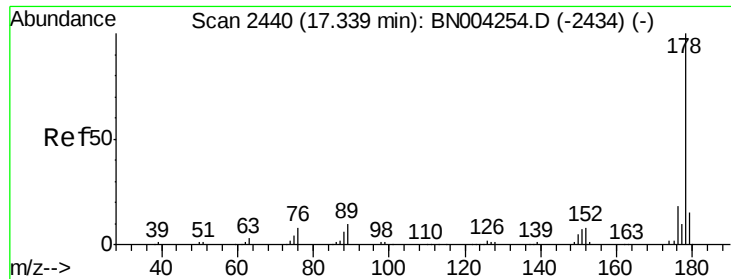


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

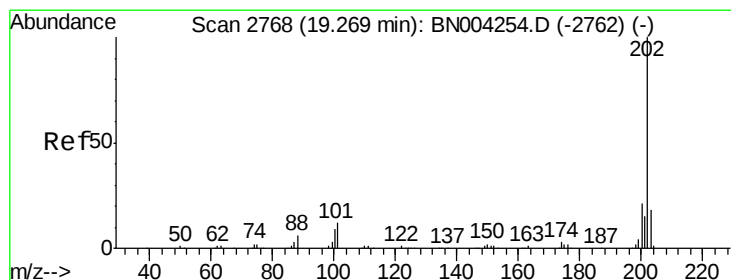
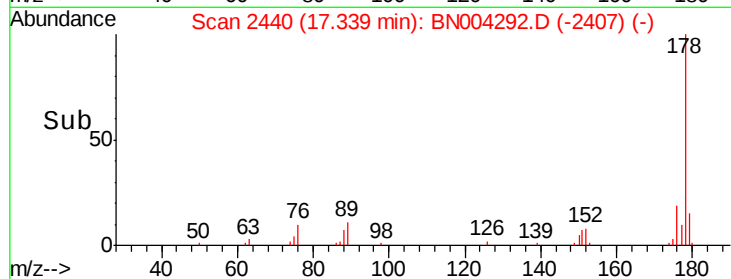
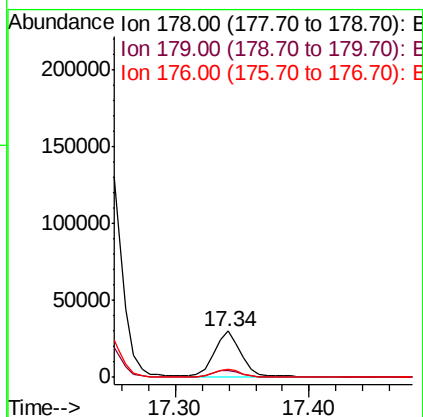
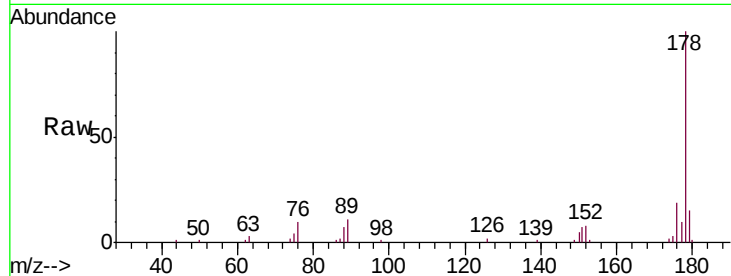




#71  
 Anthracene  
 Concen: 3.429 ng/ul  
 RT: 17.34 min Scan# 2440  
 Delta R.T. -0.01 min  
 Lab File: BN004292.D  
 Acq: 29 Dec 2018 09:42

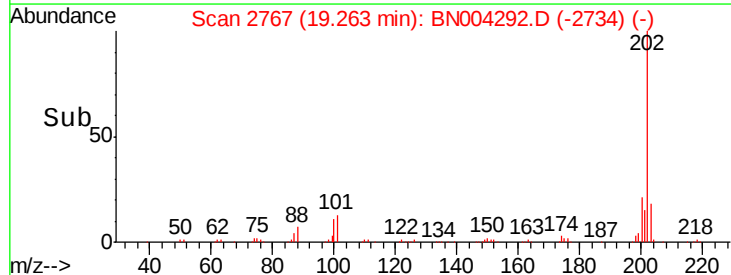
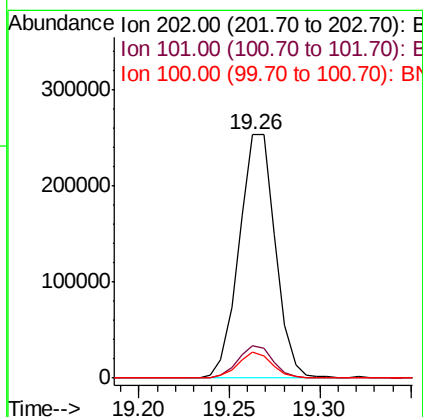
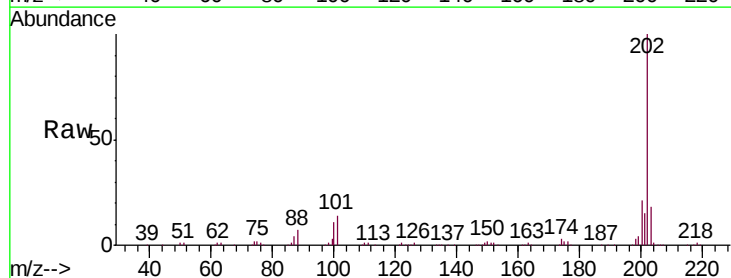
Instrument :  
 BNA\_N  
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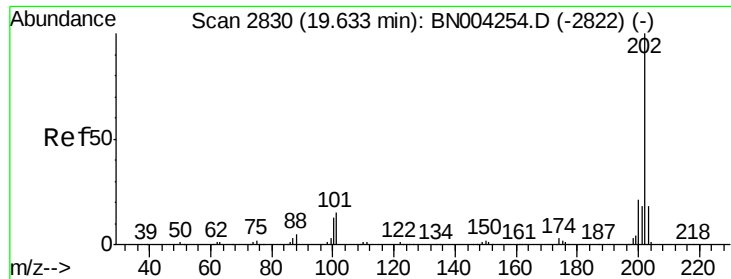
Tgt Ion:178 Resp: 42729  
 Ion Ratio Lower Upper  
 178 100  
 179 15.4 12.1 18.1  
 176 18.5 15.2 22.8



#76  
 Fluoranthene  
 Concen: 23.628 ng/ul  
 RT: 19.26 min Scan# 2767  
 Delta R.T. -0.01 min  
 Lab File: BN004292.D  
 Acq: 29 Dec 2018 09:42

Tgt Ion:202 Resp: 352122  
 Ion Ratio Lower Upper  
 202 100  
 101 13.6 10.2 15.2  
 100 10.5 7.8 11.8





#79

Pyrene

Concen: 19.710 ng/ul

RT: 19.63 min Scan# 2829

Delta R.T. -0.01 min

Lab File: BN004292.D

Acq: 29 Dec 2018 09:42

Instrument :

BNA\_N

ClientSampleId :

A41Y6

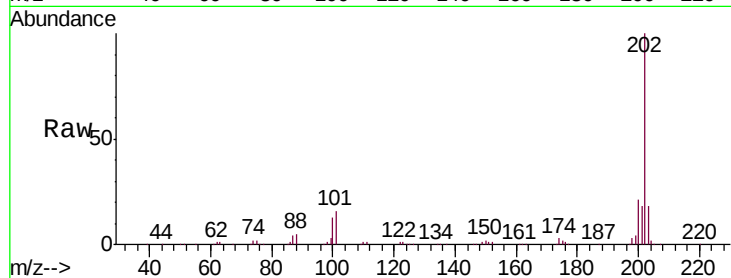
Tgt Ion:202 Resp: 260796

Ion Ratio Lower Upper

202 100

101 16.2 12.2 18.2

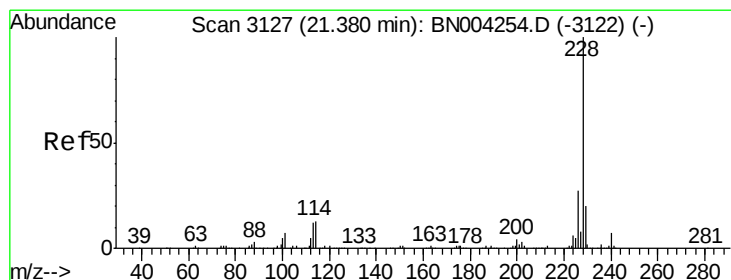
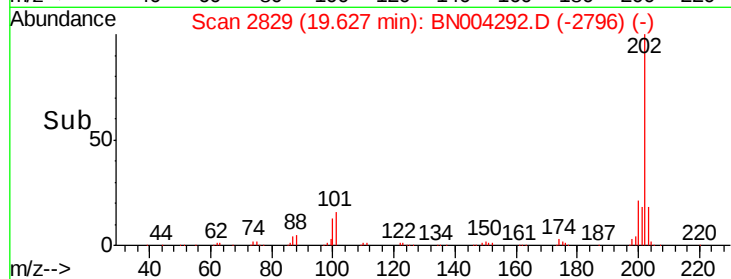
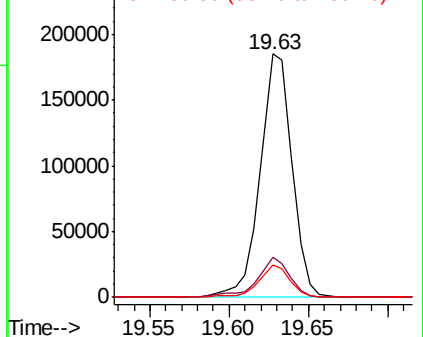
100 13.2 9.9 14.9



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#82

Benzo(a)anthracene

Concen: 9.743 ng/ul

RT: 21.37 min Scan# 3126

Delta R.T. -0.01 min

Lab File: BN004292.D

Acq: 29 Dec 2018 09:42

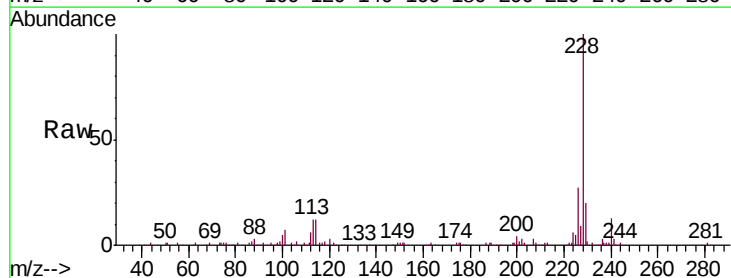
Tgt Ion:228 Resp: 143893

Ion Ratio Lower Upper

228 100

229 20.3 15.9 23.9

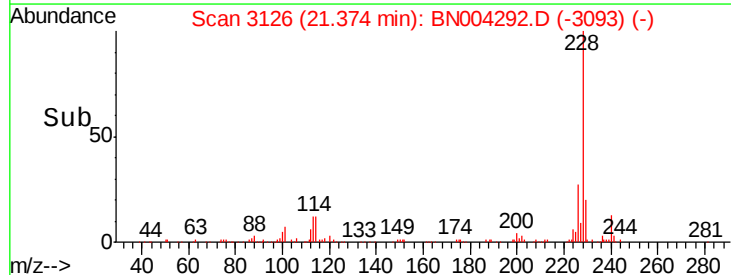
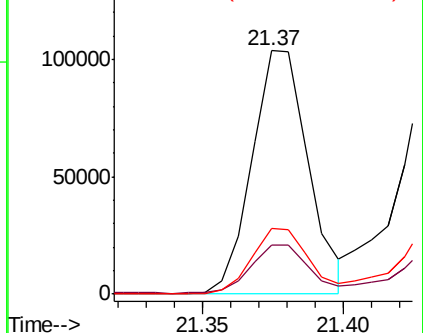
226 27.0 21.4 32.2

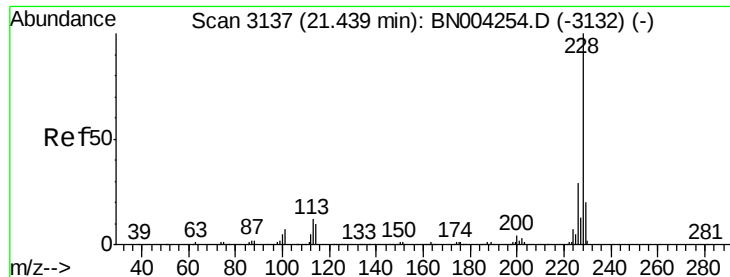


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#84

Chrysene

Concen: 9.785 ng/ul

RT: 21.43 min Scan# 3136

Delta R.T. -0.00 min

Lab File: BN004292.D

Acq: 29 Dec 2018 09:42

Instrument :

BNA\_N

ClientSampled :

A41Y6

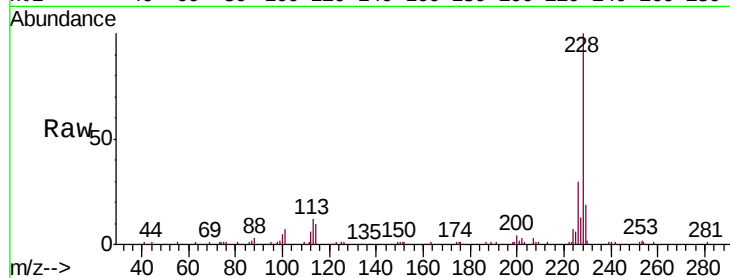
Tgt Ion:228 Resp: 135357

Ion Ratio Lower Upper

228 100

226 29.6 23.8 35.8

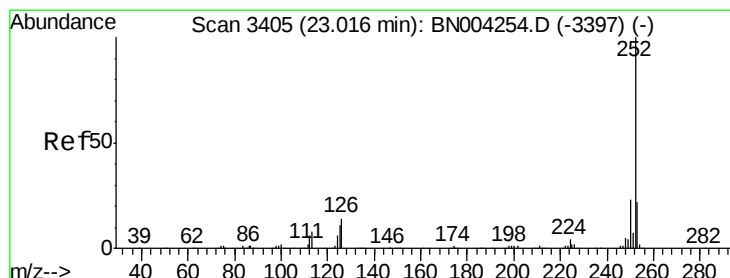
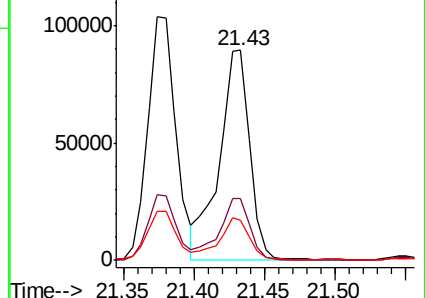
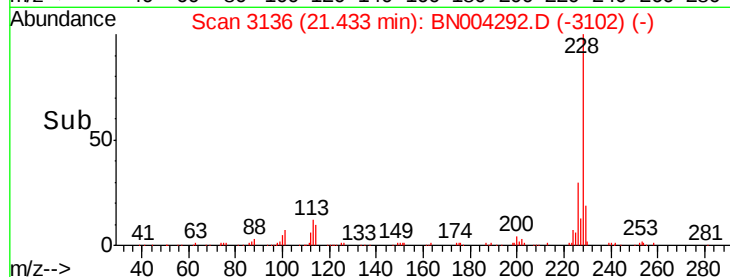
229 19.2 15.8 23.6



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



#87

Benzo(b)fluoranthene

Concen: 10.665 ng/ul

RT: 23.01 min Scan# 3404

Delta R.T. -0.00 min

Lab File: BN004292.D

Acq: 29 Dec 2018 09:42

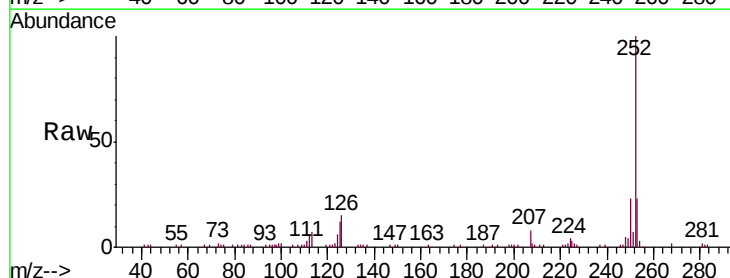
Tgt Ion:252 Resp: 141241

Ion Ratio Lower Upper

252 100

253 22.7 17.3 25.9

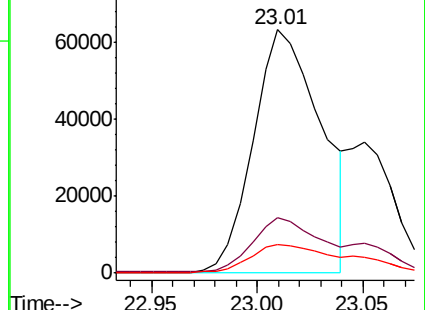
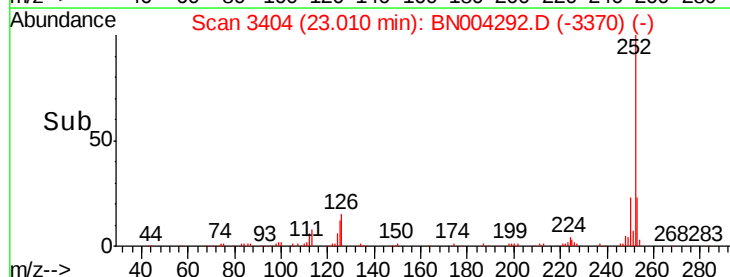
125 11.7 8.2 12.4

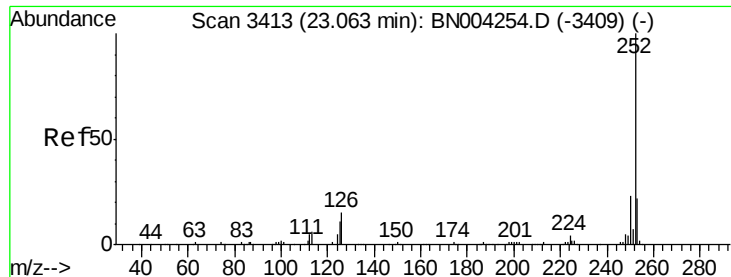


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 11.390 ng/ul

RT: 23.01 min Scan# 3404

Delta R.T. -0.05 min

Lab File: BN004292.D

Acq: 29 Dec 2018 09:42

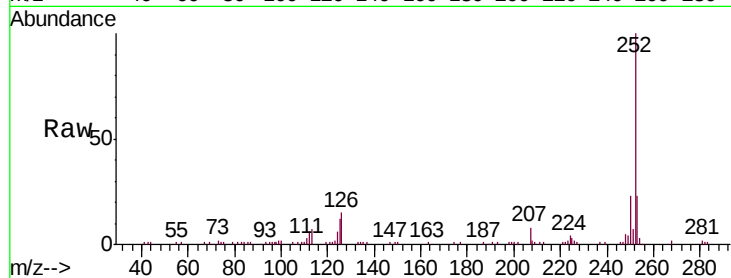
Instrument :

BNA\_N

ClientSampleId :

A41Y6

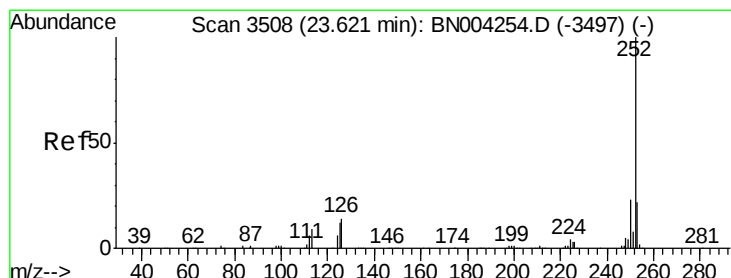
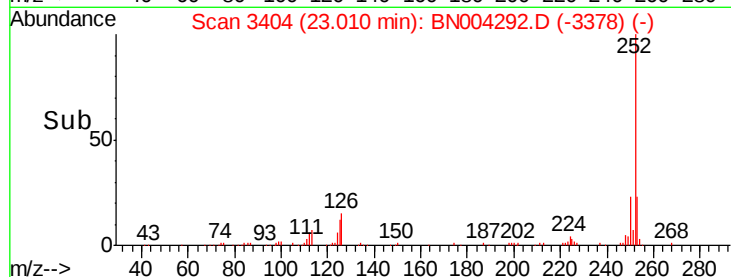
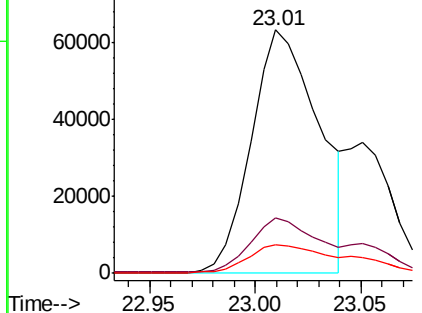
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 252   | Resp: | 141241 |
| Ion      | Ratio | Lower | Upper  |
| 252      | 100   |       |        |
| 253      | 22.7  | 17.1  | 25.7   |
| 125      | 11.7  | 7.9   | 11.9   |



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



#90

Benzo(a)pyrene

Concen: 4.459 ng/ul

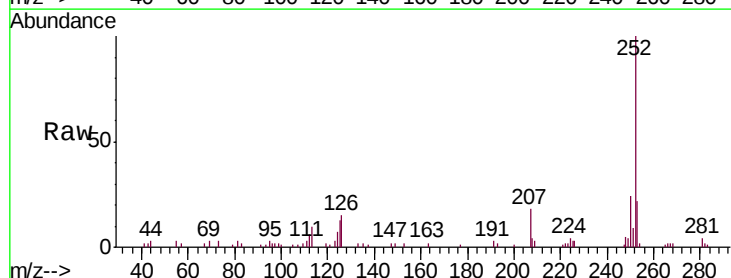
RT: 23.61 min Scan# 3506

Delta R.T. -0.01 min

Lab File: BN004292.D

Acq: 29 Dec 2018 09:42

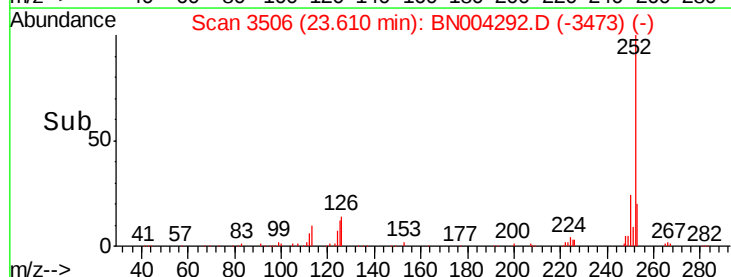
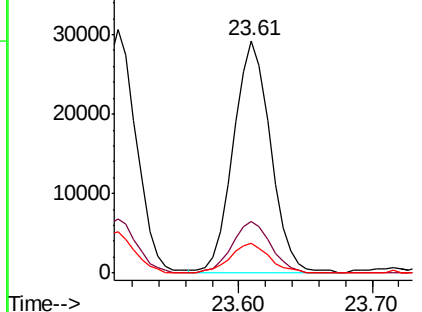
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 56876 |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 22.4  | 17.5  | 26.3  |
| 125      | 12.7  | 9.1   | 13.7  |

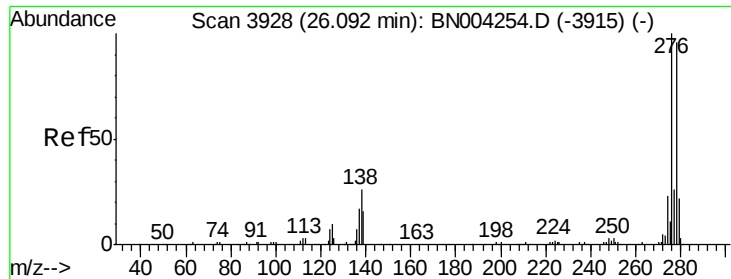


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



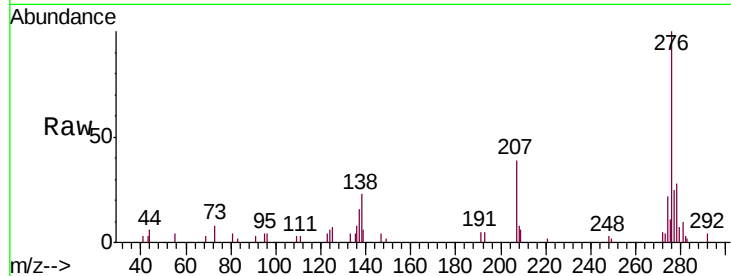


#91

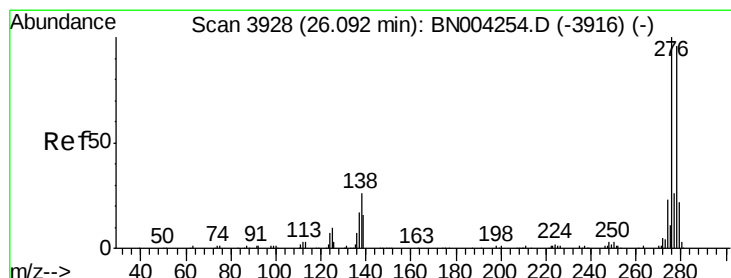
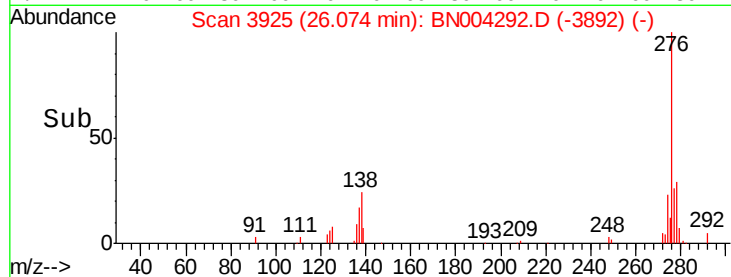
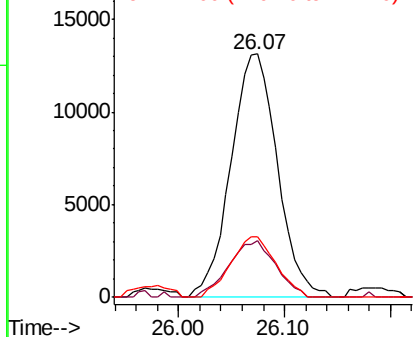
Indeno(1,2,3-cd)pyrene  
Concen: 2.413 ng/ul  
RT: 26.07 min Scan# 3925  
Delta R.T. -0.01 min  
Lab File: BN004292.D  
Acq: 29 Dec 2018 09:42

Instrument :  
BNA\_N  
ClientSampleId :  
A41Y6

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.3  | 20.4  | 30.6  |
| 277     | 24.8  | 20.6  | 30.8  |



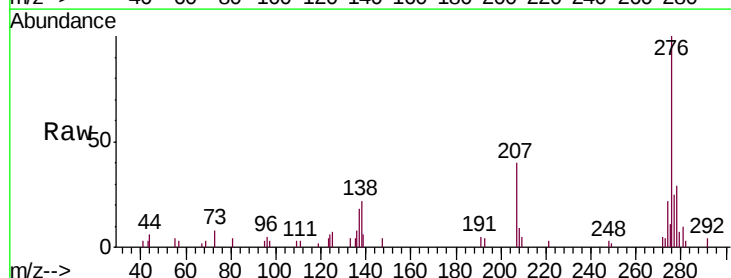
Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E



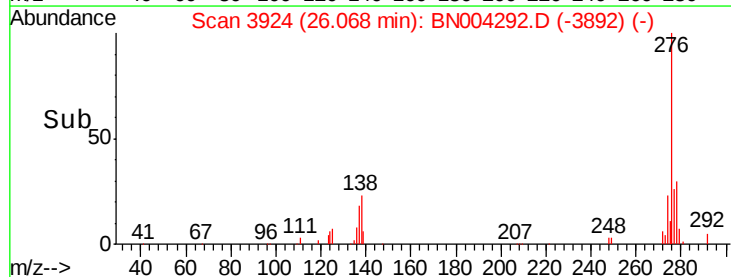
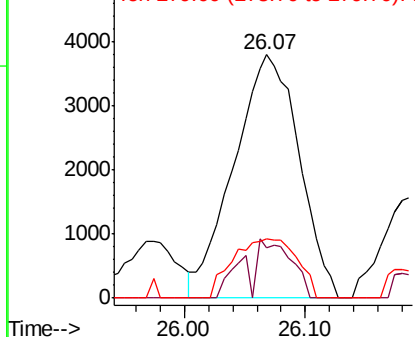
#92

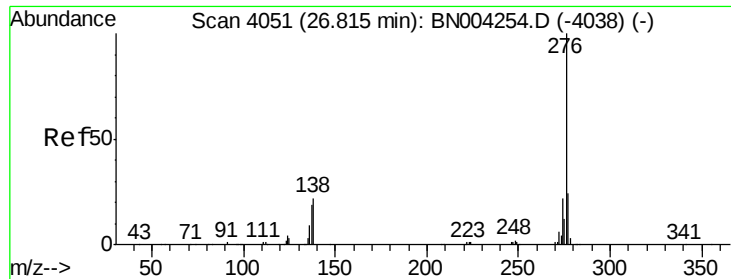
Dibenzo(a,h)anthracene  
Concen: 1.029 ng/ul  
RT: 26.07 min Scan# 3924  
Delta R.T. -0.01 min  
Lab File: BN004292.D  
Acq: 29 Dec 2018 09:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 20.8  | 13.3  | 19.9# |
| 279     | 24.4  | 19.0  | 28.6  |



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





#93

Benzo(g,h,i)perylene

Concen: 1.860 ng/ul

RT: 26.80 min Scan# 4049

Delta R.T. -0.01 min

Lab File: BN004292.D

Acq: 29 Dec 2018 09:42

Instrument :

BNA\_N

ClientSampleId :

A41Y6

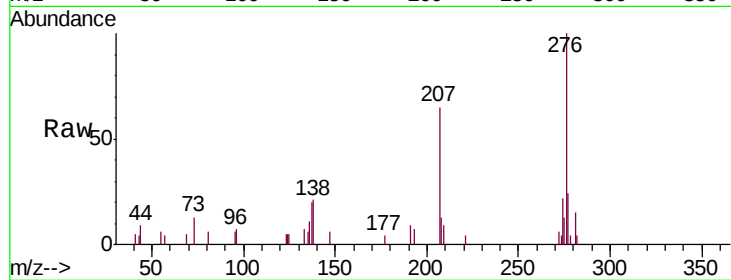
Tgt Ion:276 Resp: 25888

Ion Ratio Lower Upper

276 100

138 21.5 18.2 27.4

277 24.5 19.0 28.6



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

