

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN060319\  
 Data File : BN006050.D  
 Acq On : 03 Jun 2019 22:56  
 Operator : JU/SJ  
 Sample : K2925-06MS  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4288MS

Quant Time: Jun 04 01:27:36 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN060319MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Jun 03 14:55:48 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.72  | 152  | 442208   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.51 | 136  | 1917920  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.38 | 164  | 1108568  | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.14 | 188  | 2281192  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.35 | 240  | 1513076  | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.63 | 264  | 1590776  | 20.00 | ng/ul | -0.01    |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.25  | 96  | 28386   | 2.99  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.89  | 99  | 474667  | 12.99 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.06  | 67  | 383116  | 18.54 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.26  | 132 | 457684  | 15.96 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.43  | 113 | 330769  | 11.31 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.88  | 128 | 258444  | 18.66 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.60  | 143 | 263867  | 17.30 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.14 | 165 | 421287  | 15.13 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.65 | 131 | 90581   | 2.65  | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.79 | 166 | 1563241 | 19.93 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.07 | 160 | 1889601 | 18.73 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.59 | 143 | 67380   | 4.65  | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.38 | 176 | 1333213 | 20.07 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.51 | 200 | 90348   | 8.17  | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.23 | 188 | 1806700 | 18.90 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.54 | 212 | 1738406 | 20.14 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.49 | 264 | 1353342 | 19.15 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |        | Ovalue    |
|--------------------------------|-------|-----|---------|--------|-----------|
| 6) Phenol                      | 6.92  | 94  | 495565  | 13.280 | ng/ul 99  |
| 10) 2-Chlorophenol             | 7.29  | 128 | 458934  | 15.663 | ng/ul 99  |
| 15) N-Nitroso-di-n-propylamine | 8.52  | 70  | 425590  | 18.986 | ng/ul 100 |
| 33) 4-Chloro-3-methylphenol    | 11.81 | 107 | 442782  | 14.328 | ng/ul 98  |
| 44) Dimethylphthalate          | 13.84 | 163 | 342873  | 4.417  | ng/ul 99  |
| 49) Acenaphthene               | 14.44 | 153 | 1445143 | 21.637 | ng/ul 98  |
| 52) 4-Nitrophenol              | 14.60 | 109 | 59864   | 5.466  | ng/ul 94  |
| 54) 2,4-Dinitrotoluene         | 14.75 | 165 | 434854  | 19.225 | ng/ul 97  |
| 58) Fluorene                   | 15.43 | 166 | 103452  | 1.412  | ng/ul 99  |
| 68) Pentachlorophenol          | 16.79 | 266 | 217007  | 16.194 | ng/ul 98  |
| 69) Phenanthrene               | 17.18 | 178 | 1897750 | 17.143 | ng/ul 100 |
| 71) Anthracene                 | 17.26 | 178 | 187054  | 1.664  | ng/ul 99  |
| 76) Fluoranthene               | 19.20 | 202 | 1973034 | 18.315 | ng/ul 99  |
| 79) Pyrene                     | 19.57 | 202 | 4156334 | 38.113 | ng/ul 99  |
| 82) Benzo(a)anthracene         | 21.33 | 228 | 637764  | 6.822  | ng/ul 98  |
| 83) Bis(2-ethylhexyl)phthalate | 21.26 | 149 | 233147  | 3.438  | ng/ul 99  |
| 84) Chrysene                   | 21.38 | 228 | 800509  | 9.050  | ng/ul 99  |
| 87) Benzo(b)fluoranthene       | 22.95 | 252 | 769587  | 8.771  | ng/ul# 90 |
| 88) Benzo(k)fluoranthene       | 22.99 | 252 | 255295  | 3.003  | ng/ul# 91 |
| 90) Benzo(a)pyrene             | 23.53 | 252 | 520093  | 6.234  | ng/ul 95  |
| 91) Indeno(1,2,3-cd)pyrene     | 25.92 | 276 | 346489  | 3.608  | ng/ul 97  |
| 92) Dibenzo(a,h)anthracene     | 25.93 | 278 | 86864   | 1.073  | ng/ul# 90 |
| 93) Benzo(g,h,i)perylene       | 26.64 | 276 | 338497  | 4.282  | ng/ul 98  |

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Quant Title : SVOA CALIBRATION  
QLast Update : Mon Jun 03 14:55:48 2019  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

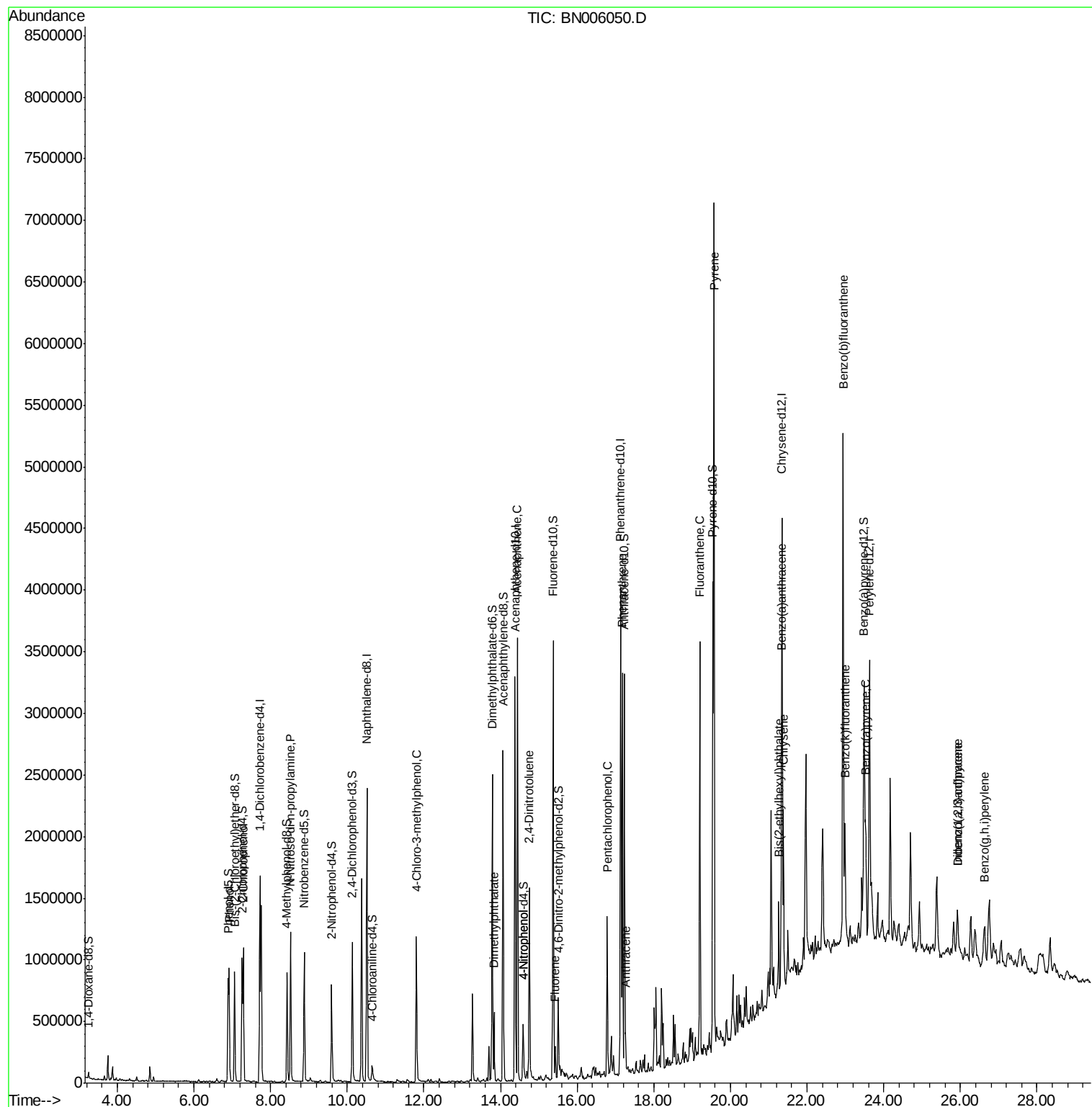
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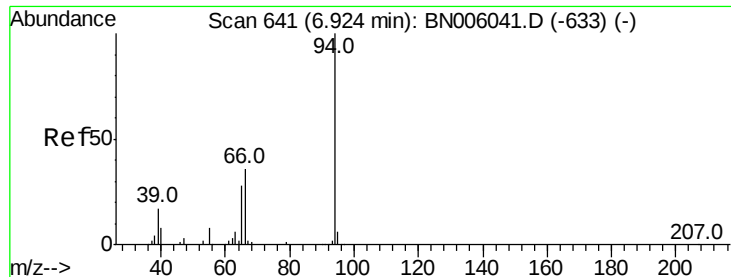
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jun 03 14:55:48 2019  
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#6

Phenol

Concen: 13.280 ng/ul

RT: 6.92 min Scan# 640

Delta R.T. -0.01 min

Lab File: BN006050.D

Acq: 03 Jun 2019 22:56

Instrument :

BNA\_N

ClientSampleId :

A4288MS

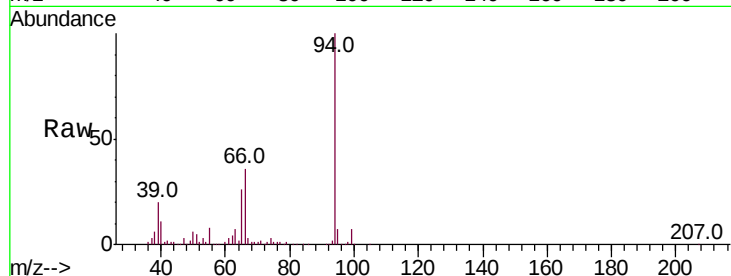
Tot Ion: 94 Resp: 495565

Ion Ratio Lower Upper

94 100

65 26.5 21.1 31.7

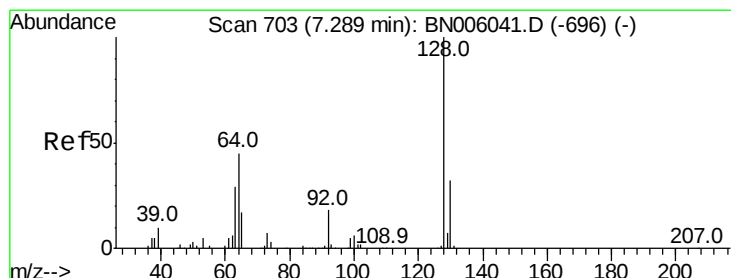
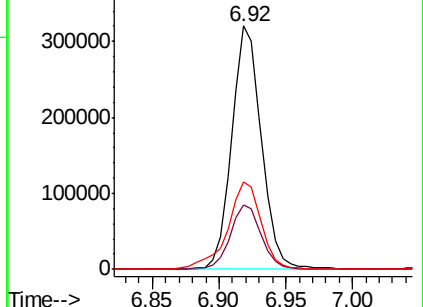
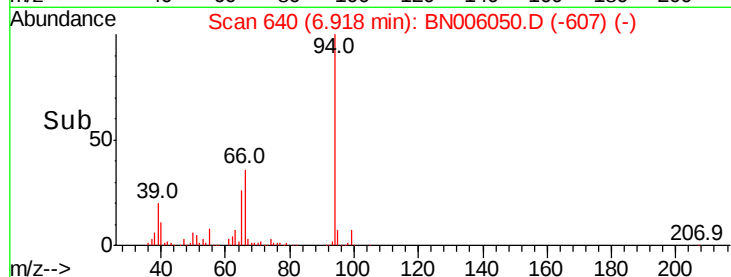
66 36.1 28.2 42.2



Abundance Ion 94.00 (93.70 to 94.70): BN006041.D (-633) (-)

Ion 65.00 (64.70 to 65.70): BN006041.D (-633) (-)

Ion 66.00 (65.70 to 66.70): BN006041.D (-633) (-)



#10

2-Chlorophenol

Concen: 15.663 ng/ul

RT: 7.29 min Scan# 703

Delta R.T. 0.00 min

Lab File: BN006050.D

Acq: 03 Jun 2019 22:56

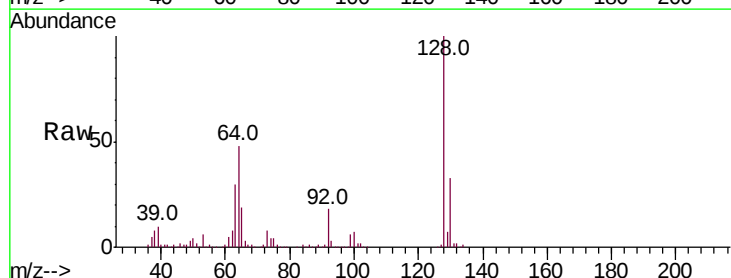
Tgt Ion:128 Resp: 458934

Ion Ratio Lower Upper

128 100

64 47.5 38.7 58.1

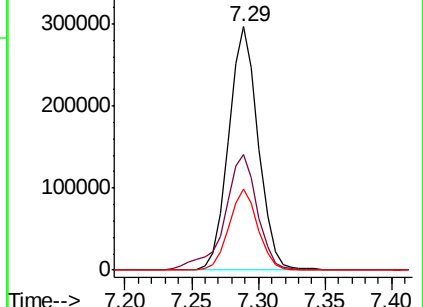
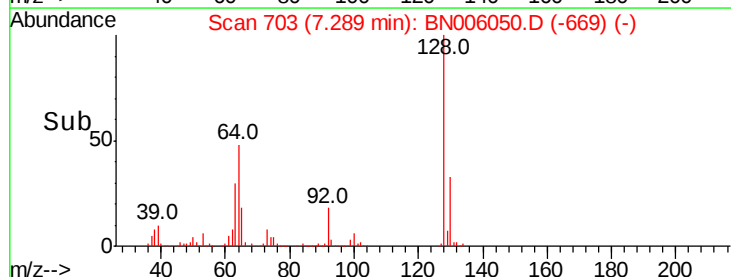
130 33.2 26.0 39.0

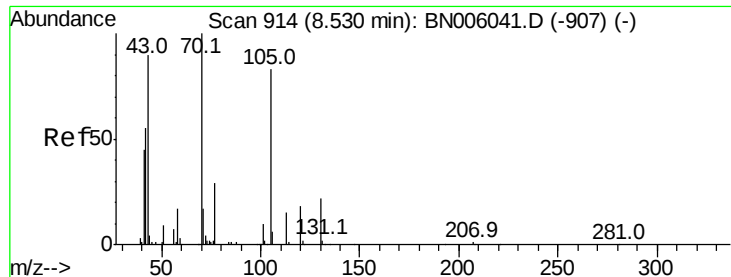


Abundance Ion 128.00 (127.70 to 128.70): BN006041.D (-696) (-)

Ion 64.00 (63.70 to 64.70): BN006041.D (-696) (-)

Ion 130.00 (129.70 to 130.70): BN006041.D (-696) (-)

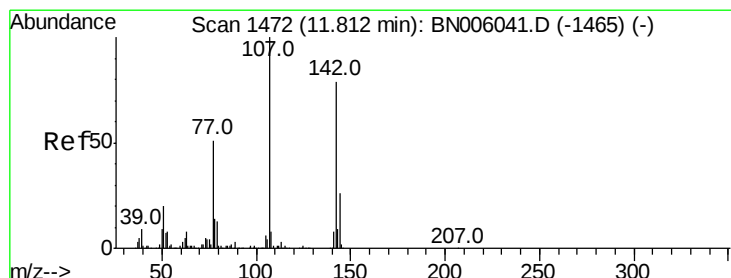
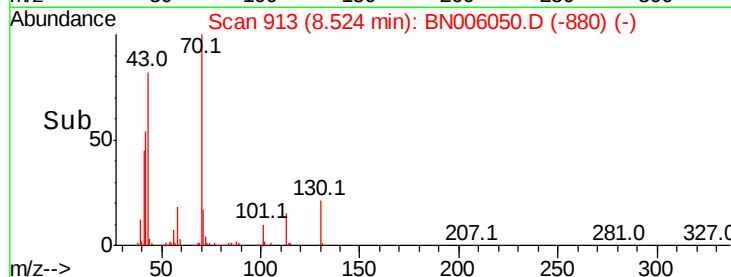
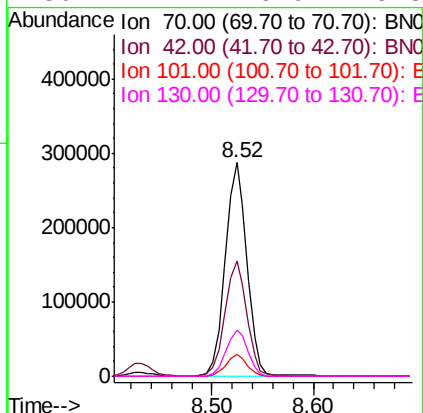
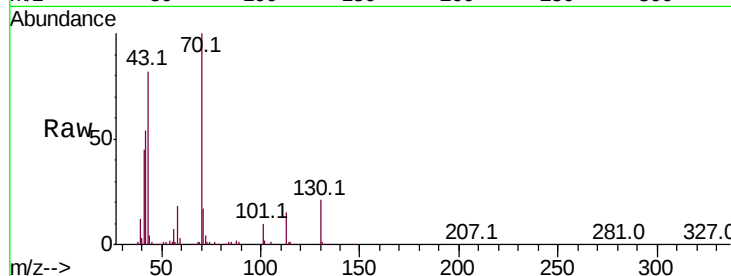




#15  
N-Nitroso-di-n-propylamine  
Concen: 18.986 ng/ul  
RT: 8.52 min Scan# 913  
Delta R.T. -0.01 min  
Lab File: BN006050.D  
Acq: 03 Jun 2019 22:56

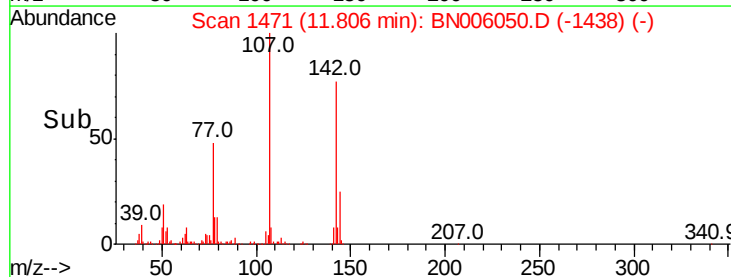
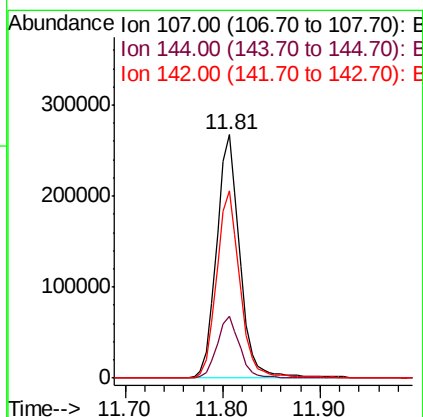
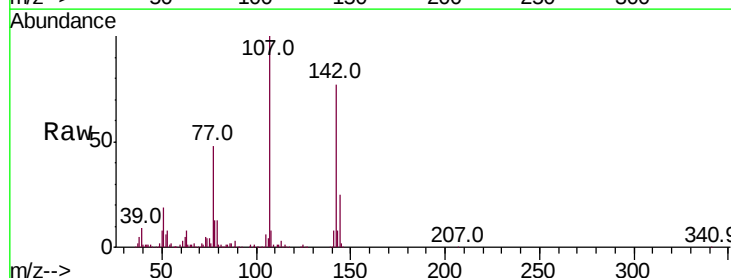
Instrument :  
BNA\_N  
ClientSampleId :  
A4288MS

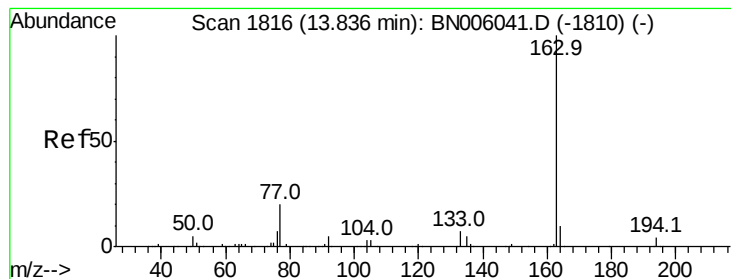
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 54.2  | 43.3  | 64.9  |
| 101     | 9.9   | 7.8   | 11.8  |
| 130     | 21.4  | 16.9  | 25.3  |



#33  
4-Chloro-3-methylphenol  
Concen: 14.328 ng/ul  
RT: 11.81 min Scan# 1471  
Delta R.T. -0.01 min  
Lab File: BN006050.D  
Acq: 03 Jun 2019 22:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 144     | 25.3  | 20.0  | 30.0  |
| 142     | 76.9  | 63.1  | 94.7  |





#44

Dimethylphthalate

Concen: 4.417 ng/ul

RT: 13.84 min Scan# 1816

Delta R.T. 0.00 min

Lab File: BN006050.D

Acq: 03 Jun 2019 22:56

Instrument :

BNA\_N

ClientSampleId :

A4288MS

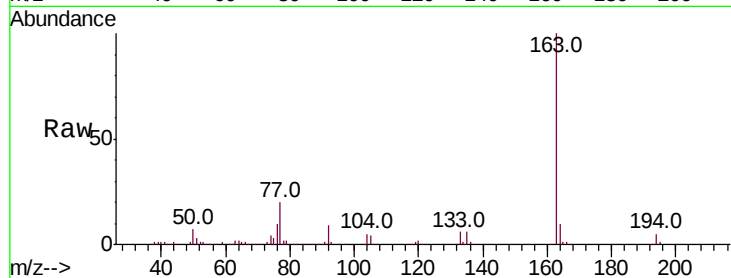
Tot Ion:163 Resp: 342873

Ion Ratio Lower Upper

163 100

194 4.5 3.4 5.2

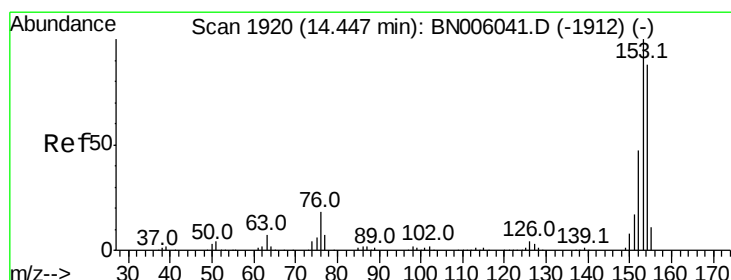
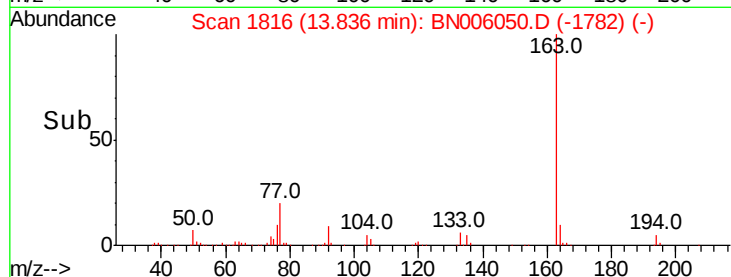
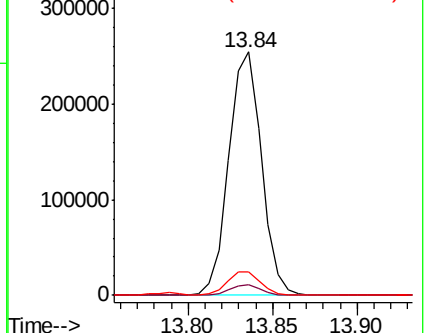
164 9.6 8.2 12.4



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#49

Acenaphthene

Concen: 21.637 ng/ul

RT: 14.44 min Scan# 1919

Delta R.T. -0.01 min

Lab File: BN006050.D

Acq: 03 Jun 2019 22:56

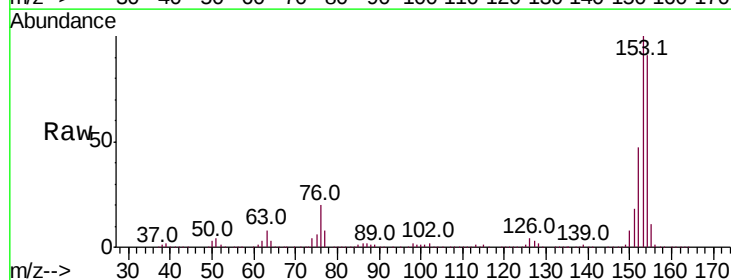
Tgt Ion:153 Resp: 1445143

Ion Ratio Lower Upper

153 100

152 46.9 37.4 56.2

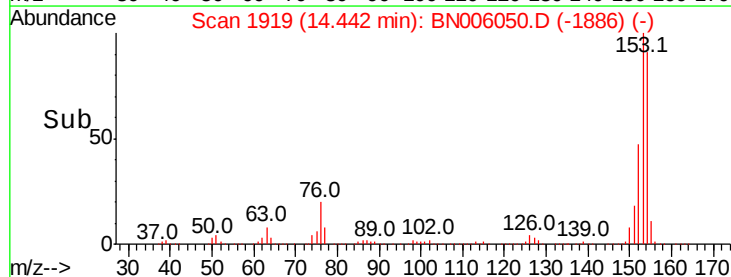
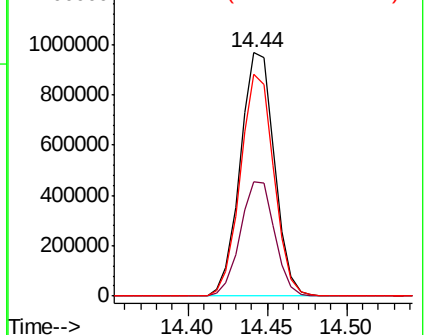
154 91.1 70.7 106.1

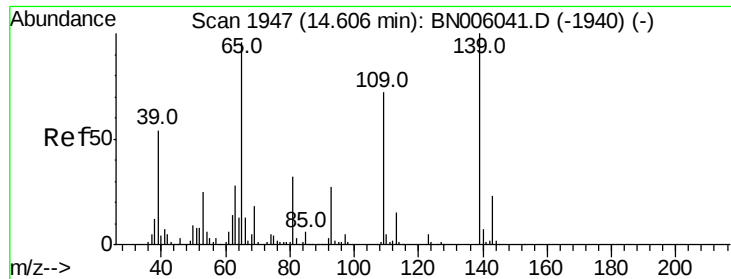


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

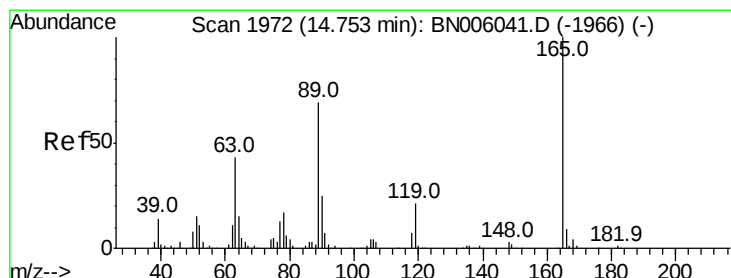
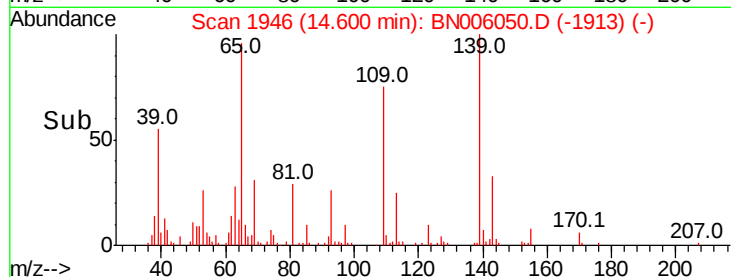
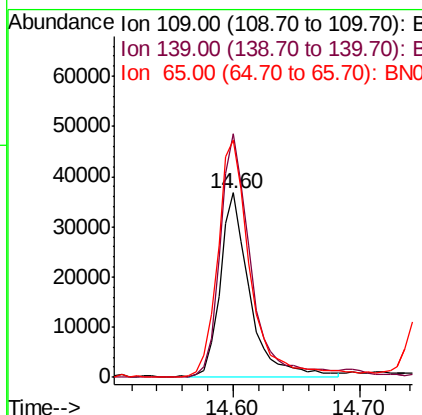
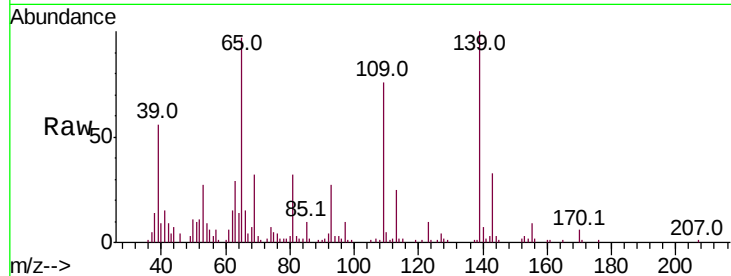




#52  
4-Nitrophenol  
Concen: 5.466 ng/ul  
RT: 14.60 min Scan# 1946  
Delta R.T. -0.01 min  
Lab File: BN006050.D  
Acq: 03 Jun 2019 22:56

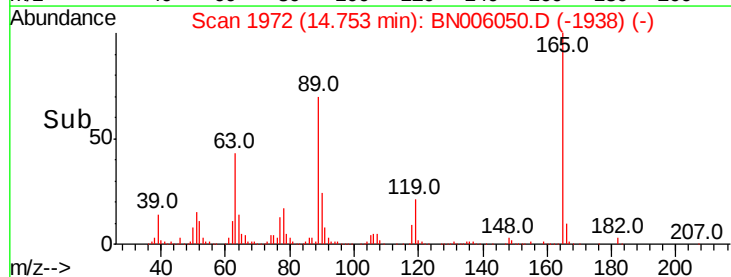
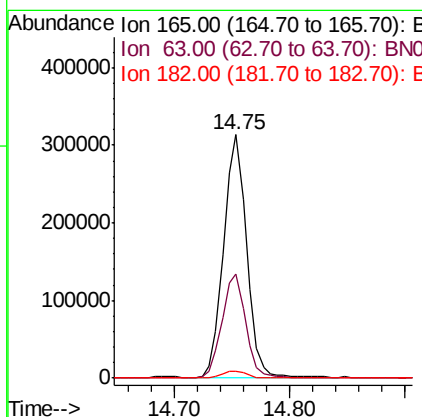
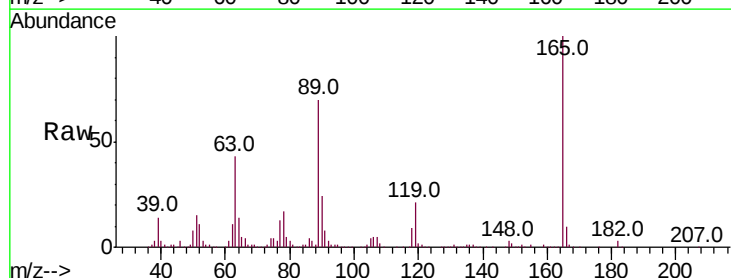
Instrument :  
BNA\_N  
ClientSampleId :  
A4288MS

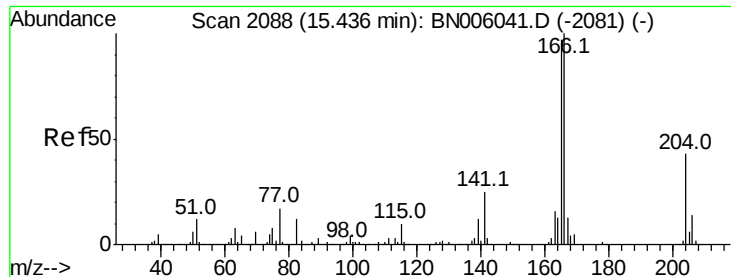
Tot Ion:109 Resp: 59864  
Ion Ratio Lower Upper  
109 100  
139 132.1 111.8 167.6  
65 128.6 108.5 162.7



#54  
2,4-Dinitrotoluene  
Concen: 19.225 ng/ul  
RT: 14.75 min Scan# 1972  
Delta R.T. 0.00 min  
Lab File: BN006050.D  
Acq: 03 Jun 2019 22:56

Tgt Ion:165 Resp: 434854  
Ion Ratio Lower Upper  
165 100  
63 42.8 36.0 54.0  
182 3.0 2.4 3.6





#58

Fluorene

Concen: 1.412 ng/ul

RT: 15.43 min Scan# 2087

Delta R.T. -0.01 min

Lab File: BN006050.D

Acq: 03 Jun 2019 22:56

Instrument :

BNA\_N

ClientSampleId :

A4288MS

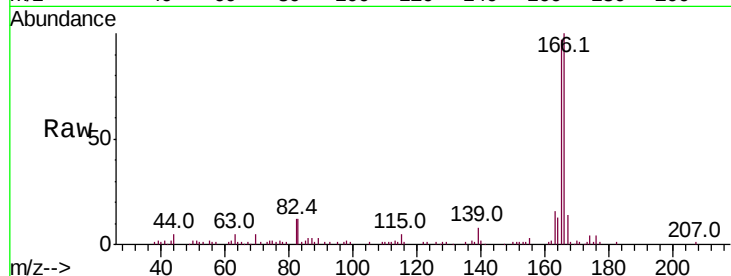
Tot Ion:166 Resp: 103452

Ion Ratio Lower Upper

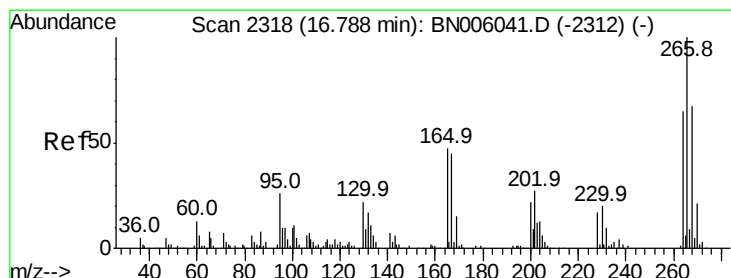
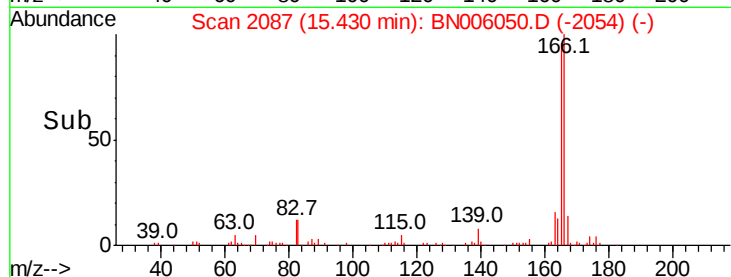
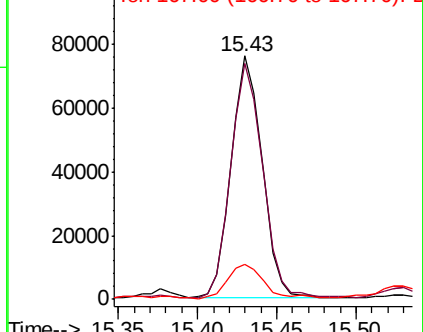
166 100

165 97.2 76.6 115.0

167 14.2 10.8 16.2



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



#68

Pentachlorophenol

Concen: 16.194 ng/ul

RT: 16.79 min Scan# 2318

Delta R.T. 0.00 min

Lab File: BN006050.D

Acq: 03 Jun 2019 22:56

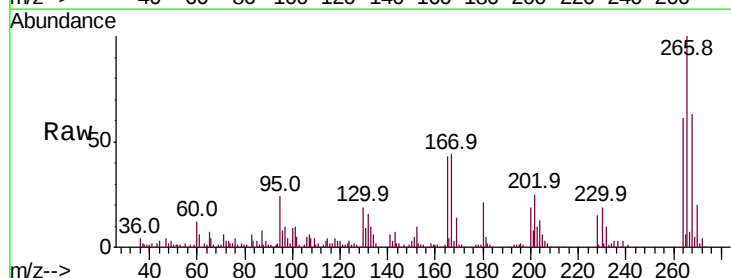
Tgt Ion:266 Resp: 217007

Ion Ratio Lower Upper

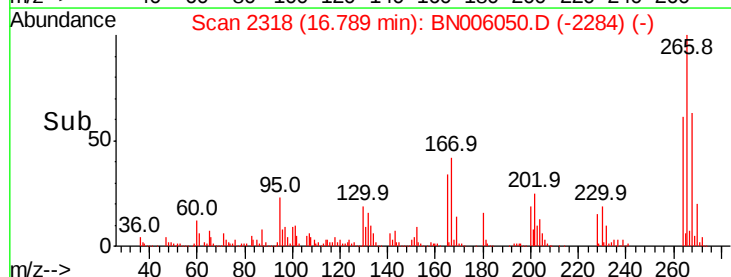
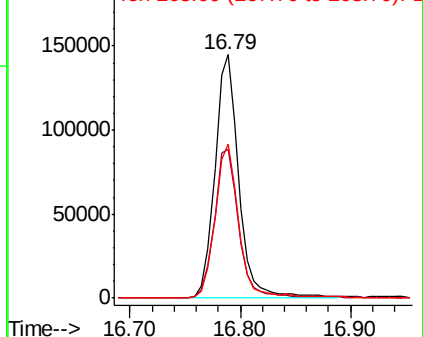
266 100

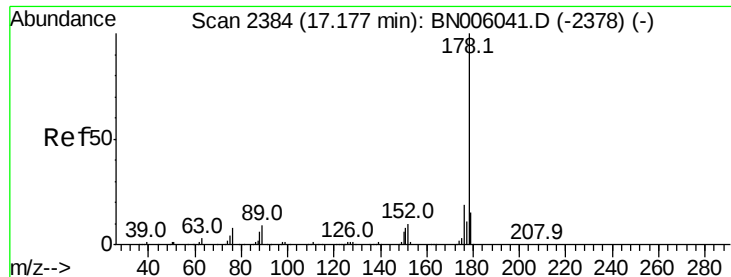
264 61.0 50.8 76.2

268 63.5 50.7 76.1



Abundance Ion 265.70 (265.40 to 266.40): E  
Ion 264.00 (263.70 to 264.70): E  
Ion 268.00 (267.70 to 268.70): E





#69

Phenanthrene

Concen: 17.143 ng/ul

RT: 17.18 min Scan# 2384

Delta R.T. 0.00 min

Lab File: BN006050.D

Acq: 03 Jun 2019 22:56

Instrument :

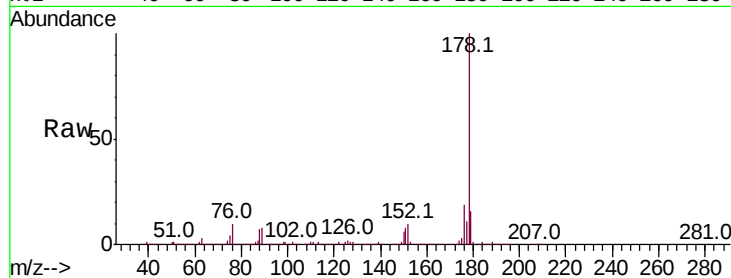
BNA\_N

ClientSampleId :

A4288MS

Tot Ion:178 Resp: 1897750

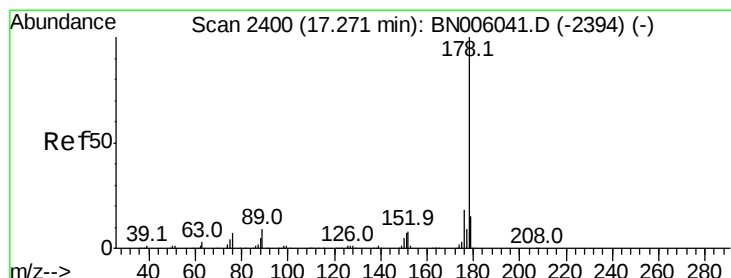
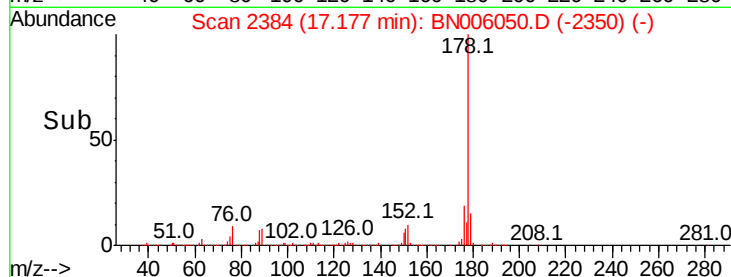
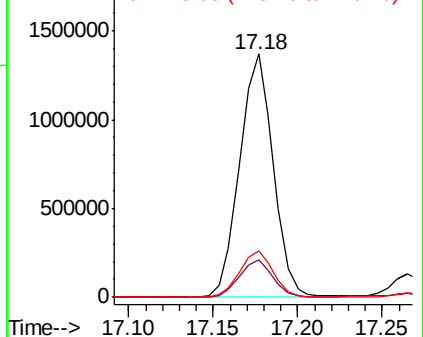
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.5  | 12.4  | 18.6  |
| 176 | 19.0  | 15.0  | 22.4  |



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: 1.664 ng/ul

RT: 17.26 min Scan# 2399

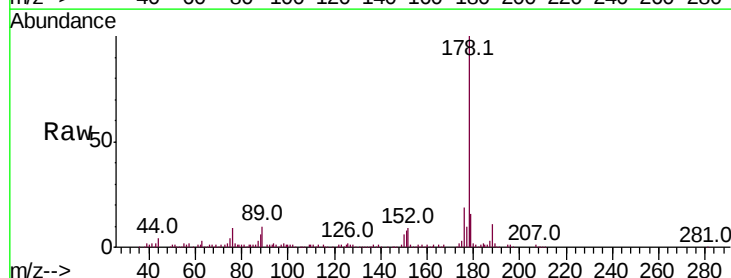
Delta R.T. -0.01 min

Lab File: BN006050.D

Acq: 03 Jun 2019 22:56

Tgt Ion:178 Resp: 187054

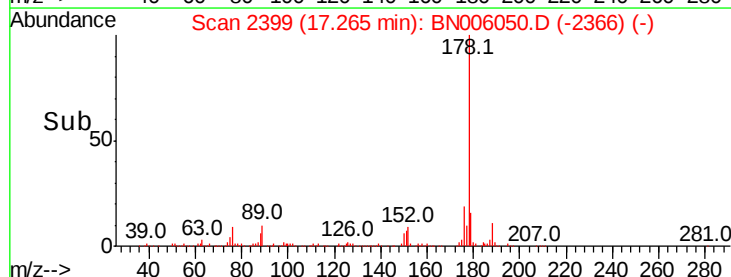
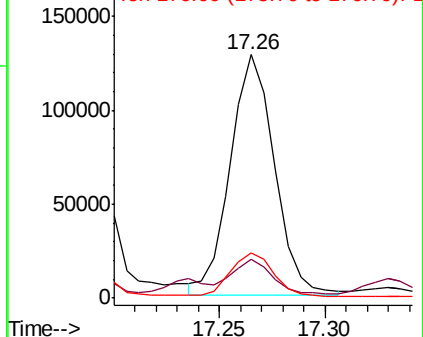
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 16.0  | 12.4  | 18.6  |
| 176 | 18.7  | 14.8  | 22.2  |

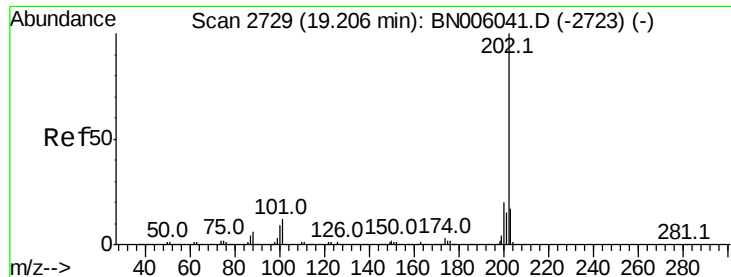


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#76

Fluoranthene

Concen: 18.315 ng/ul

RT: 19.20 min Scan# 2728

Delta R.T. -0.01 min

Lab File: BN006050.D

Acq: 03 Jun 2019 22:56

Instrument :

BNA\_N

ClientSampleId :

A4288MS

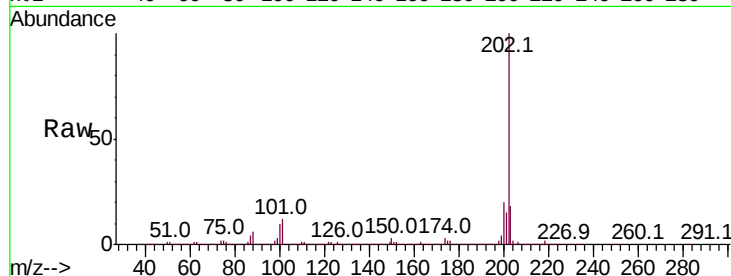
Tot Ion:202 Resp: 1973034

Ion Ratio Lower Upper

202 100

101 12.5 9.6 14.4

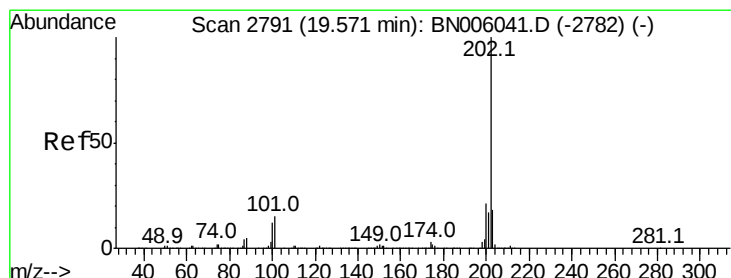
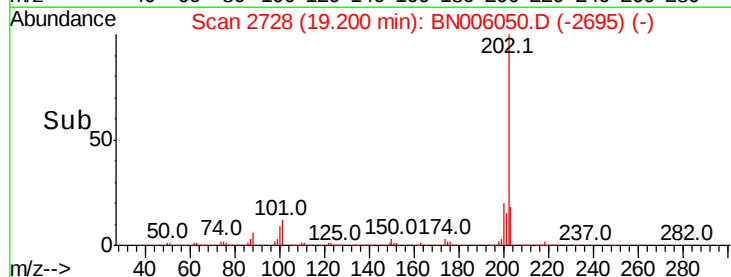
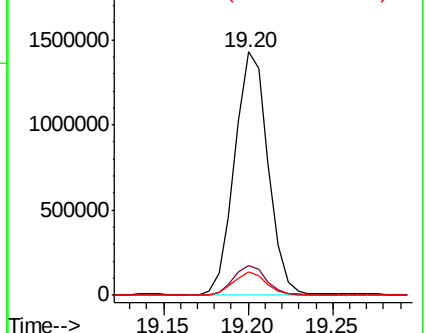
100 9.5 7.1 10.7



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



#79

Pyrene

Concen: 38.113 ng/ul

RT: 19.57 min Scan# 2791

Delta R.T. 0.00 min

Lab File: BN006050.D

Acq: 03 Jun 2019 22:56

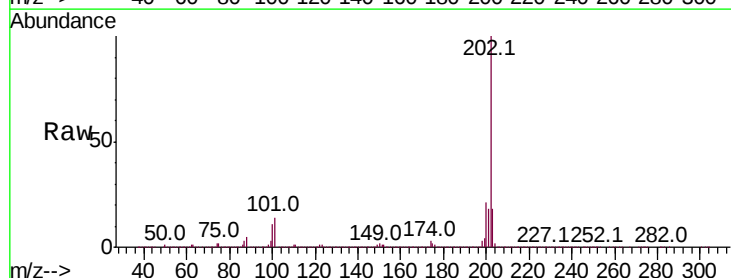
Tgt Ion:202 Resp: 4156334

Ion Ratio Lower Upper

202 100

101 14.0 11.6 17.4

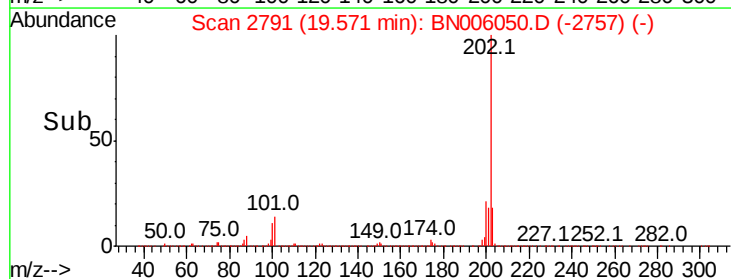
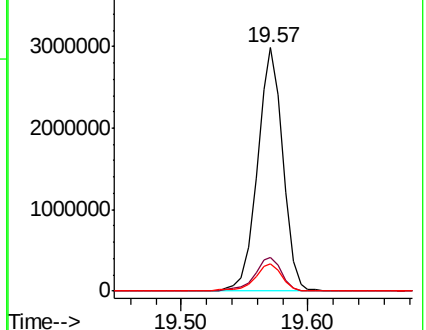
100 11.4 9.4 14.2

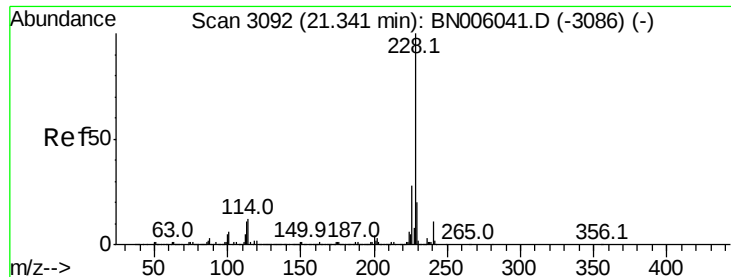


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

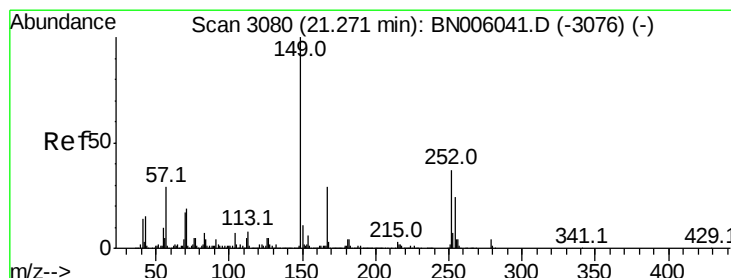
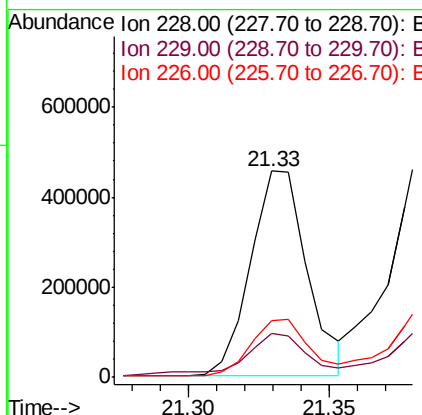
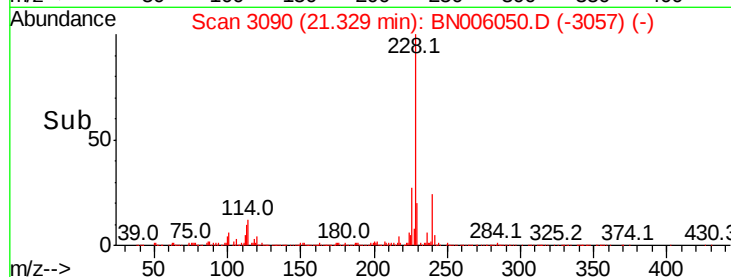
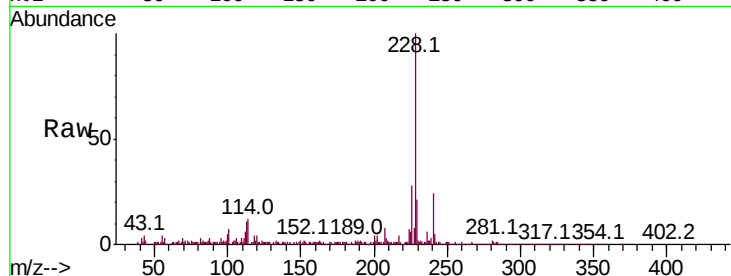




#82  
Benzo(a)anthracene  
Concen: 6.822 ng/ul  
RT: 21.33 min Scan# 3090  
Delta R.T. -0.01 min  
Lab File: BN006050.D  
Acq: 03 Jun 2019 22:56

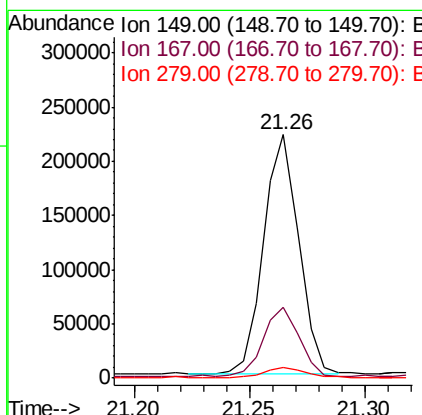
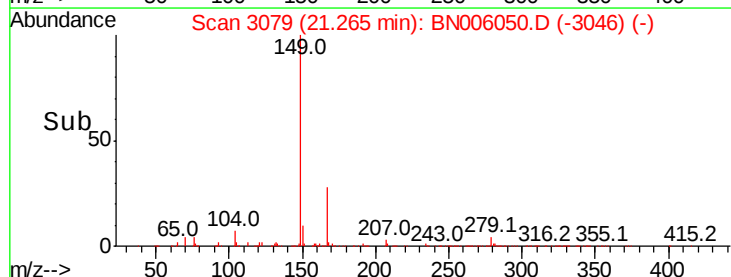
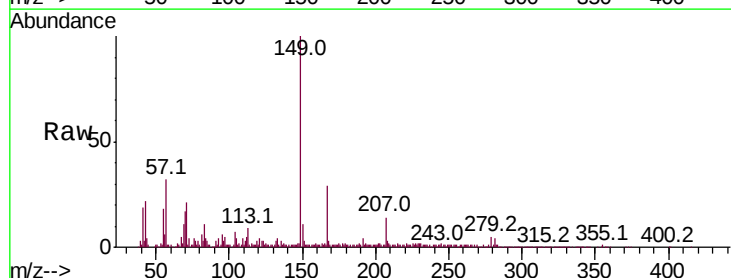
Instrument :  
BNA\_N  
ClientSampleId :  
A4288MS

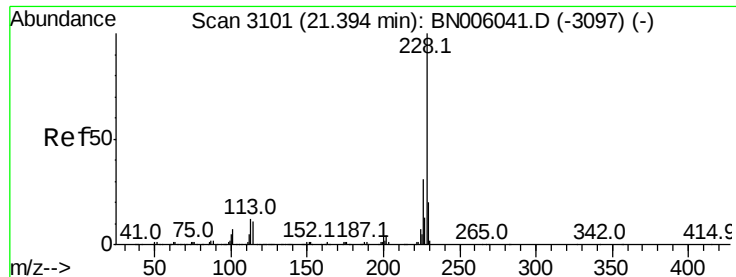
Tot Ion:228 Resp: 637764  
Ion Ratio Lower Upper  
228 100  
229 21.1 15.8 23.8  
226 27.8 21.6 32.4



#83  
Bis(2-ethylhexyl)phthalate  
Concen: 3.438 ng/ul  
RT: 21.26 min Scan# 3079  
Delta R.T. -0.01 min  
Lab File: BN006050.D  
Acq: 03 Jun 2019 22:56

Tgt Ion:149 Resp: 233147  
Ion Ratio Lower Upper  
149 100  
167 29.0 22.5 33.7  
279 4.5 3.6 5.4





#84

Chrysene

Concen: 9.050 ng/ul

RT: 21.38 min Scan# 3099

Delta R.T. -0.01 min

Lab File: BN006050.D

Acq: 03 Jun 2019 22:56

Instrument :

BNA\_N

ClientSampleId :

A4288MS

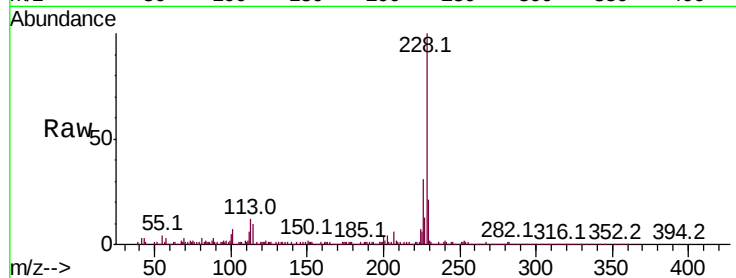
Tot Ion:228 Resp: 800509

Ion Ratio Lower Upper

228 100

226 30.6 24.2 36.4

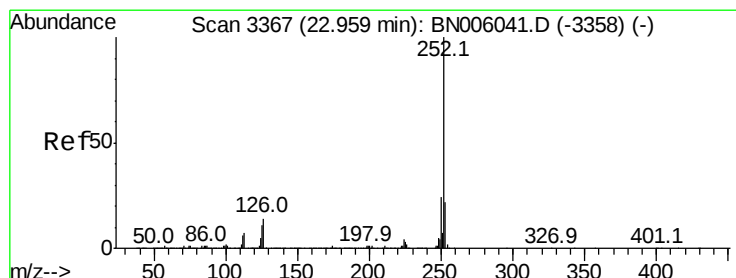
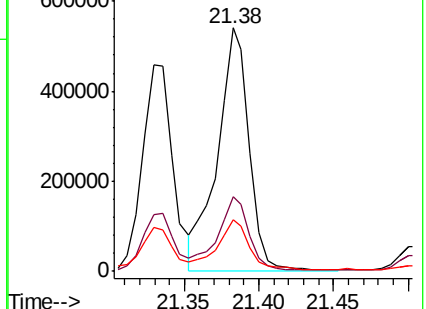
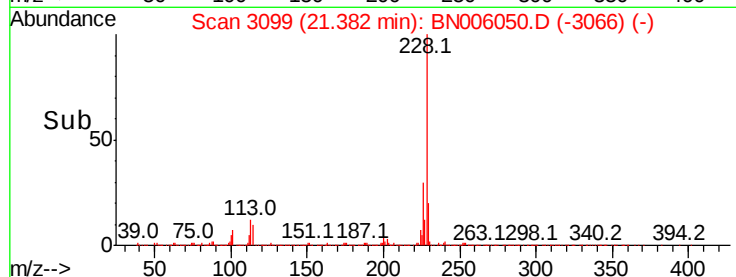
229 21.0 16.3 24.5



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: 8.771 ng/ul

RT: 22.95 min Scan# 3365

Delta R.T. -0.01 min

Lab File: BN006050.D

Acq: 03 Jun 2019 22:56

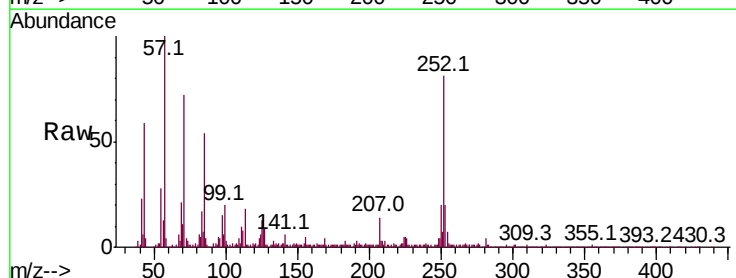
Tgt Ion:252 Resp: 769587

Ion Ratio Lower Upper

252 100

253 25.0 17.3 25.9

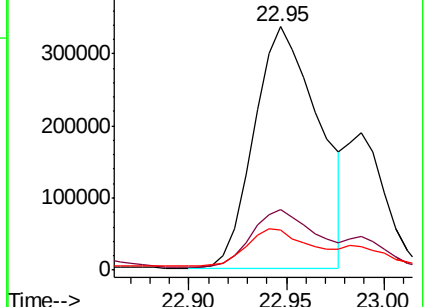
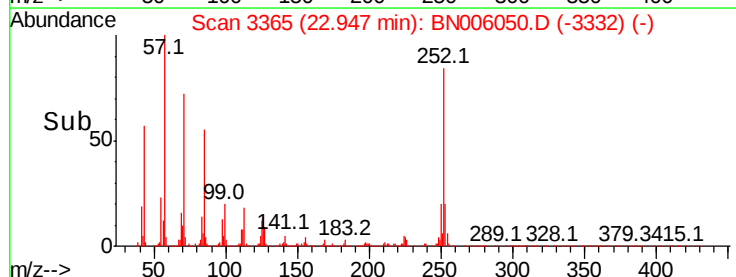
125 16.3 8.5 12.7#

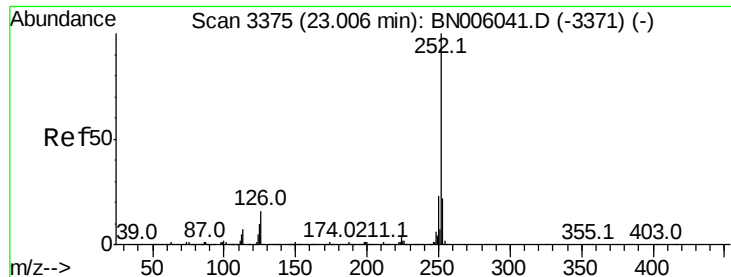


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 3.003 ng/ul

RT: 22.99 min Scan# 3372

Delta R.T. -0.01 min

Lab File: BN006050.D

Acq: 03 Jun 2019 22:56

Instrument :

BNA\_N

ClientSampleId :

A4288MS

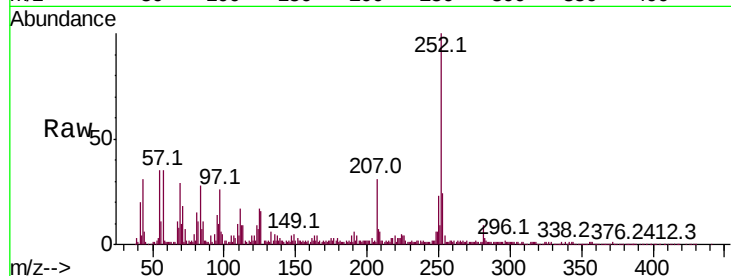
Tot Ion:252 Resp: 255295

Ion Ratio Lower Upper

252 100

253 24.1 17.5 26.3

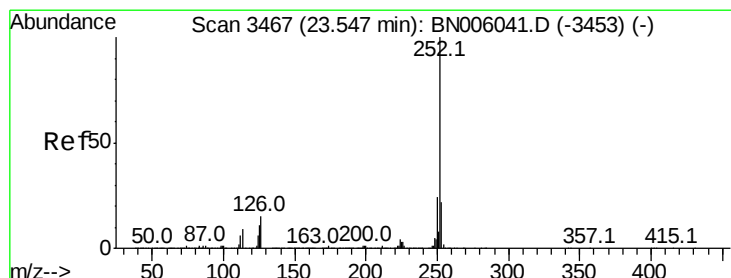
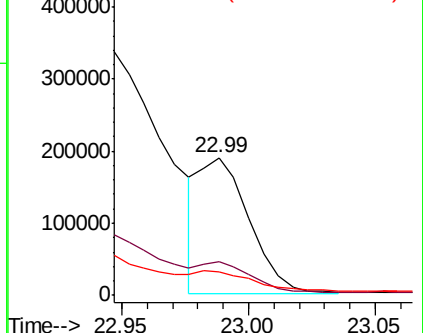
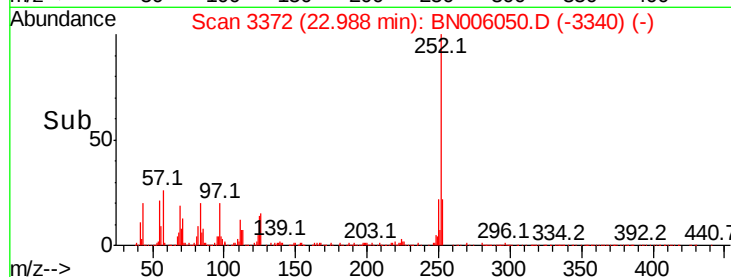
125 17.4 8.2 12.4#



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



#90

Benzo(a)pyrene

Concen: 6.234 ng/ul

RT: 23.53 min Scan# 3464

Delta R.T. -0.01 min

Lab File: BN006050.D

Acq: 03 Jun 2019 22:56

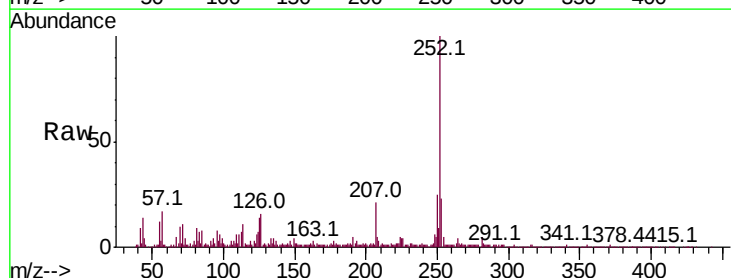
Tgt Ion:252 Resp: 520093

Ion Ratio Lower Upper

252 100

253 23.5 17.1 25.7

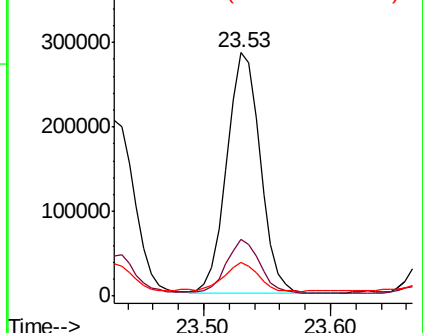
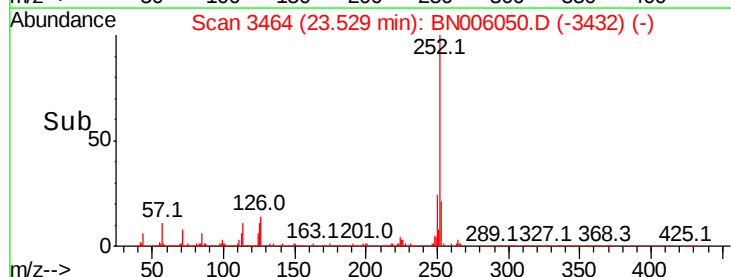
125 13.6 9.2 13.8

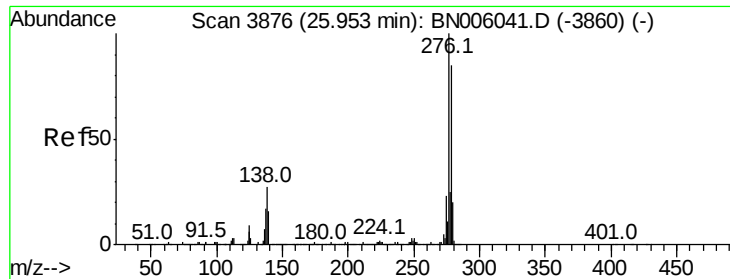


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



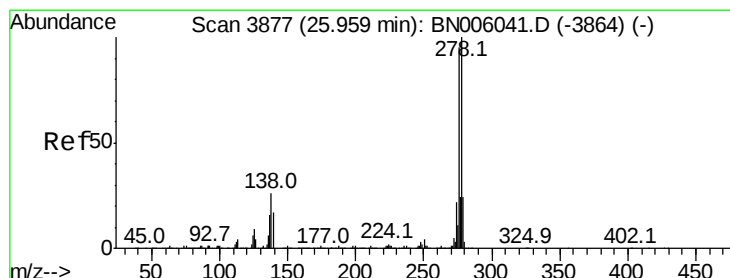
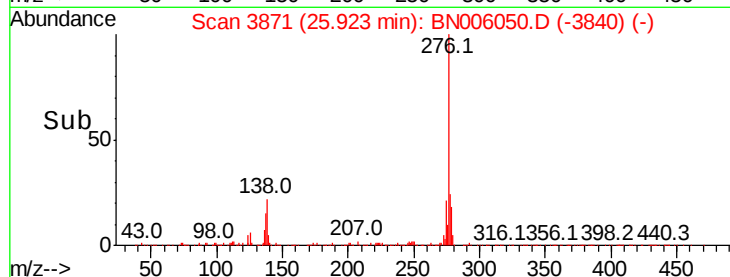
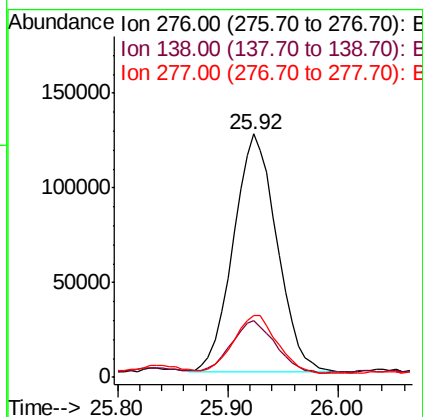
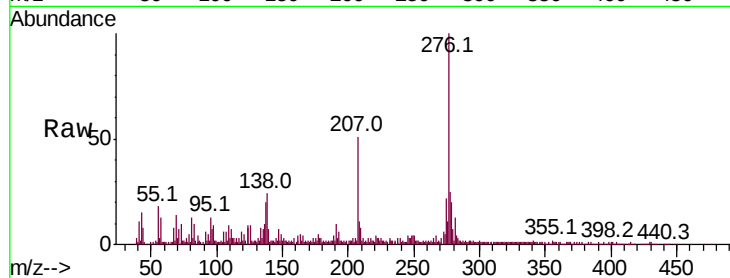


#91

Indeno(1,2,3-cd)pyrene  
Concen: 3.608 ng/ul  
RT: 25.92 min Scan# 3871  
Delta R.T. -0.02 min  
Lab File: BN006050.D  
Acq: 03 Jun 2019 22:56

Instrument :  
BNA\_N  
ClientSampleId :  
A4288MS

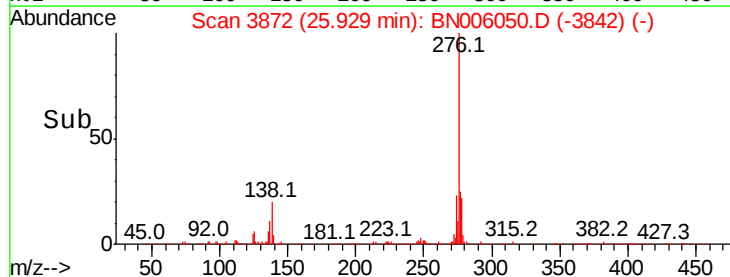
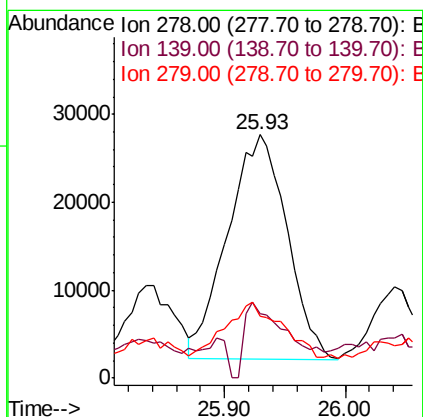
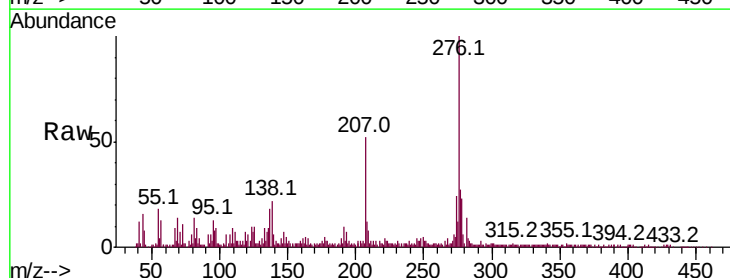
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.5  | 21.4  | 32.2  |
| 277     | 25.2  | 20.2  | 30.2  |

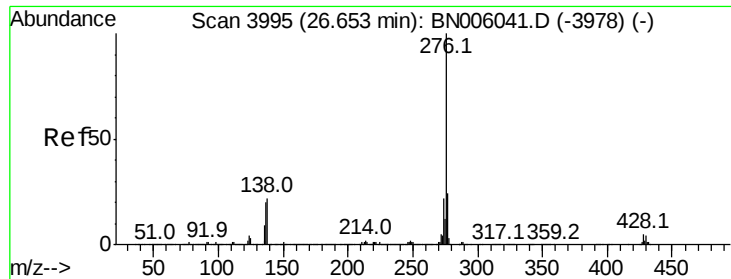


#92

Dibenzo(a,h)anthracene  
Concen: 1.073 ng/ul  
RT: 25.93 min Scan# 3872  
Delta R.T. -0.02 min  
Lab File: BN006050.D  
Acq: 03 Jun 2019 22:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 26.5  | 14.2  | 21.2# |
| 279     | 25.6  | 19.4  | 29.0  |





#93

Benzo(a,h,i)perylene

Concen: 4.282 ng/ul

RT: 26.64 min Scan# 3992

Delta R.T. -0.01 min

Lab File: BN006050.D

Acq: 03 Jun 2019 22:56

Instrument :

BNA\_N

ClientSampleId :

A4288MS

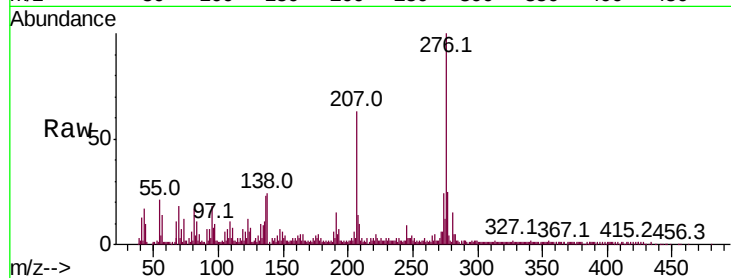
Tot Ion:276 Resp: 338497

Ion Ratio Lower Upper

276 100

138 24.3 18.8 28.2

277 25.1 19.4 29.2



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

