

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN052919\  
 Data File : BN005938.D  
 Acq On : 29 May 2019 19:40  
 Operator : JU/SJ  
 Sample : K2924-17  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4279

Manual Integrations  
 APPROVED

mohammad  
 5/30/2019 1:28:47 PM

Quant Time: May 30 06:40:09 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN052819MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 29 02:28:30 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.73  | 152  | 529974   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.51 | 136  | 2383696  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.37 | 164  | 1346754  | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.12 | 188  | 2937728  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.34 | 240  | 2248326  | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.61 | 264  | 2070663  | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.27  | 96  | 59863   | 4.97  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.89  | 99  | 1238031 | 26.36 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.07  | 67  | 746135  | 27.84 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.27  | 132 | 993934  | 27.78 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.43  | 113 | 938028  | 24.74 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.88  | 128 | 503201  | 32.89 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.60  | 143 | 526609  | 36.96 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.13 | 165 | 966997  | 28.74 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.65 | 131 | 719435  | 16.31 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.78 | 166 | 2896892 | 29.18 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.06 | 160 | 3699952 | 29.79 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.56 | 143 | 355353  | 19.67 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.36 | 176 | 2602226 | 31.25 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.48 | 200 | 147143  | 12.29 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.22 | 188 | 3849622 | 30.79 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.52 | 212 | 3919042 | 34.51 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.46 | 264 | 2901740 | 31.41 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |        | Ovalue |     |
|--------------------------------|-------|-----|---------|--------|--------|-----|
| 44) Dimethylphthalate          | 13.83 | 163 | 833384  | 8.398  | ng/ul  | 99  |
| 47) Acenaphthylene             | 14.09 | 152 | 130091  | 1.068  | ng/ul  | 98  |
| 69) Phenanthrene               | 17.16 | 178 | 1059965 | 7.282  | ng/ul  | 100 |
| 71) Anthracene                 | 17.25 | 178 | 246180  | 1.666  | ng/ul  | 99  |
| 76) Fluoranthene               | 19.19 | 202 | 2102810 | 13.533 | ng/ul# | 94  |
| 79) Pyrene                     | 19.55 | 202 | 1854119 | 13.018 | ng/ul# | 93  |
| 80) Butylbenzylphthalate       | 20.46 | 149 | 87989   | 1.375  | ng/ul  | 94  |
| 82) Benzo(a)anthracene         | 21.32 | 228 | 850755  | 6.019  | ng/ul  | 95  |
| 83) Bis(2-ethylhexyl)phthalate | 21.26 | 149 | 230379  | 2.483  | ng/ul# | 97  |
| 84) Chrysene                   | 21.37 | 228 | 932197  | 7.072  | ng/ul  | 96  |
| 87) Benzo(b)fluoranthene       | 22.92 | 252 | 1008951 | 8.675  | ng/ul# | 85  |
| 88) Benzo(k)fluoranthene       | 22.96 | 252 | 335397m | 3.136  | ng/ul  |     |
| 90) Benzo(a)pyrene             | 23.51 | 252 | 652287  | 5.947  | ng/ul# | 91  |
| 91) Indeno(1,2,3-cd)pyrene     | 25.88 | 276 | 451009  | 3.504  | ng/ul# | 94  |
| 92) Dibenzo(a,h)anthracene     | 25.88 | 278 | 127697  | 1.192  | ng/ul# | 75  |
| 93) Benzo(g,h,i)perylene       | 26.58 | 276 | 321763  | 2.969  | ng/ul# | 90  |

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

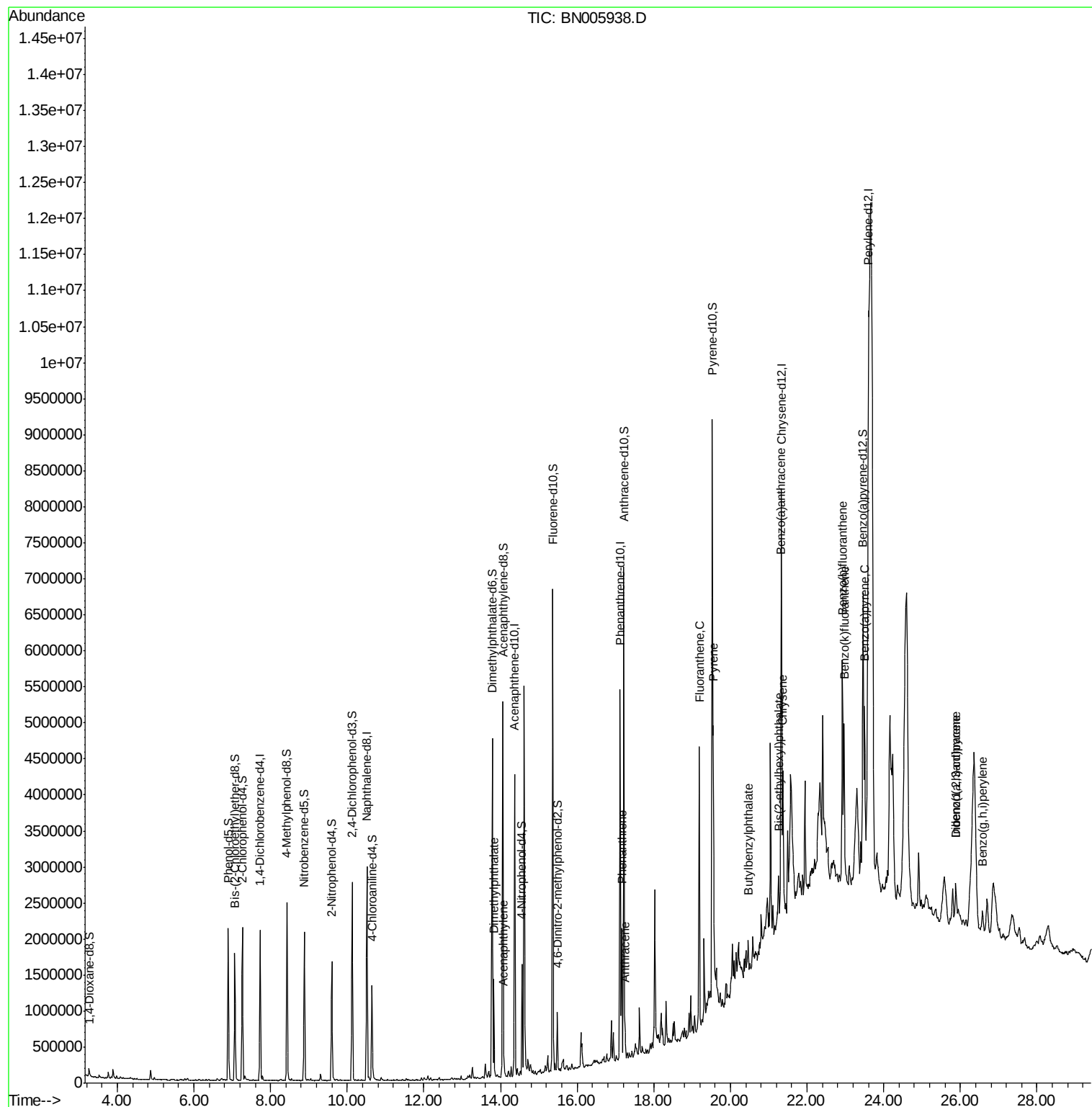
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN052919\  
Data File : BN005938.D  
Acq On : 29 May 2019 19:40  
Operator : JU/SJ  
Sample : K2924-17  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

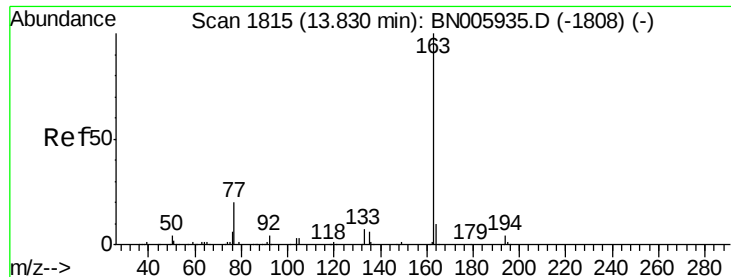
Instrument :  
BNA\_N  
ClientSampleId :  
A4279

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Quant Time: May 30 06:40:09 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN052819MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed May 29 02:28:30 2019  
Response via : Initial Calibration





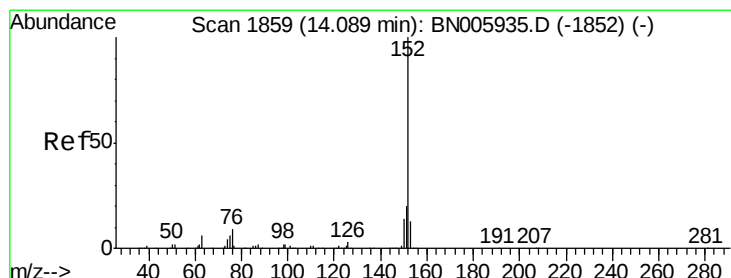
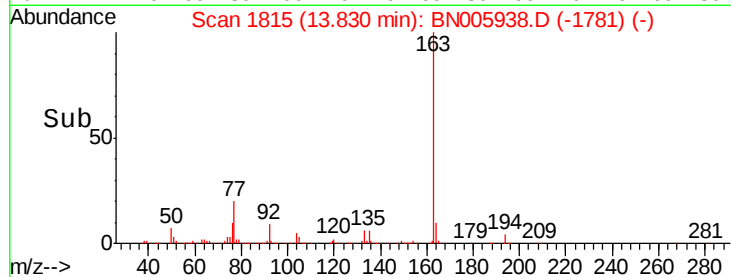
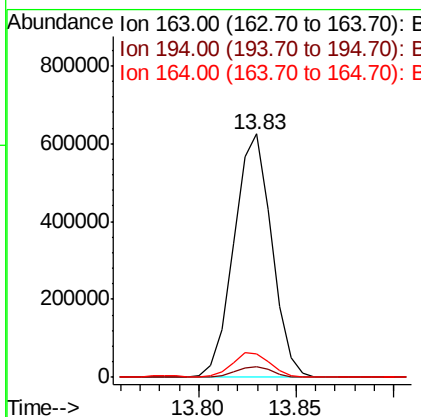
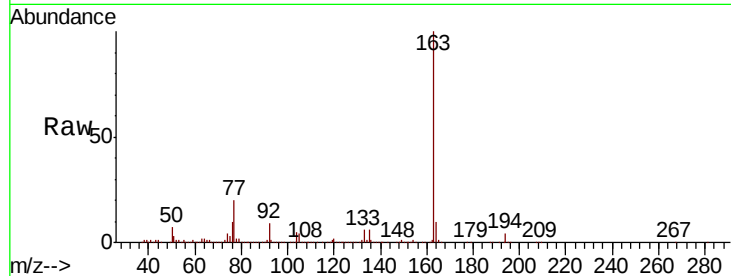
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Dimethylphthalate  
Concen: 8.398 ng/ul  
RT: 13.83 min Scan# 1815  
Delta R.T. 0.00 min  
Lab File: BN005938.D  
Acq: 29 May 2019 19:40

Instrument :  
BNA\_N  
ClientSampleId :  
A4279

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 833384 |       |       |
| 194     | 4.2   |        | 3.4   | 5.0   |
| 164     | 9.8   |        | 8.1   | 12.1  |

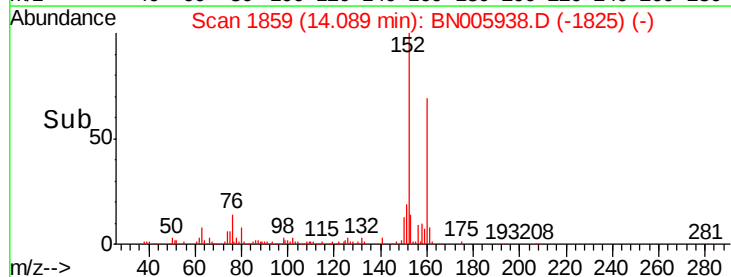
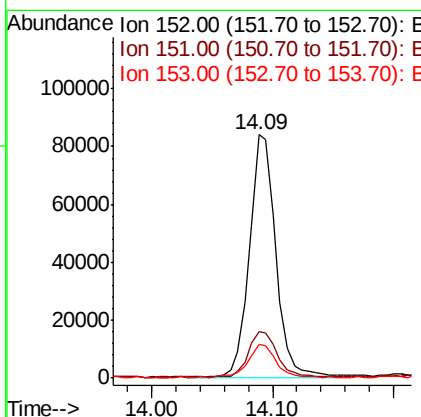
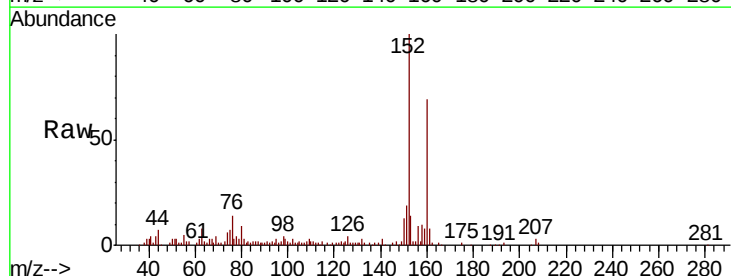
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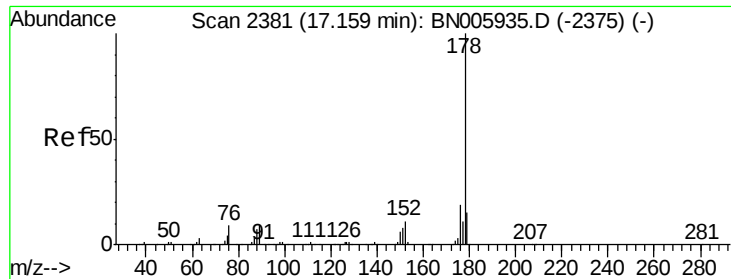
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#47  
Acenaphthylene  
Concen: 1.068 ng/ul  
RT: 14.09 min Scan# 1859  
Delta R.T. 0.00 min  
Lab File: BN005938.D  
Acq: 29 May 2019 19:40

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 130091 |       |       |
| 151     | 19.2  |        | 15.8  | 23.8  |
| 153     | 13.6  |        | 9.8   | 14.8  |





#69

Phenanthrene

Concen: 7.282 ng/ul

RT: 17.16 min Scan# 2382

Delta R.T. 0.01 min

Lab File: BN005938.D

Acq: 29 May 2019 19:40

Instrument :

BNA\_N

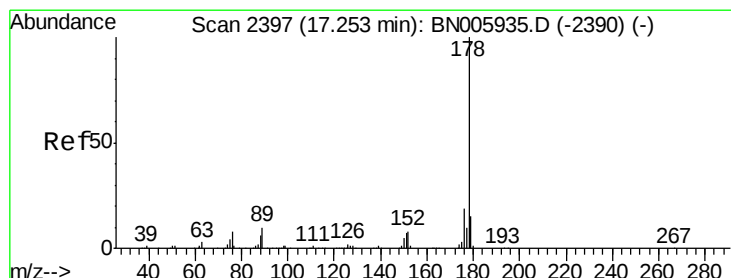
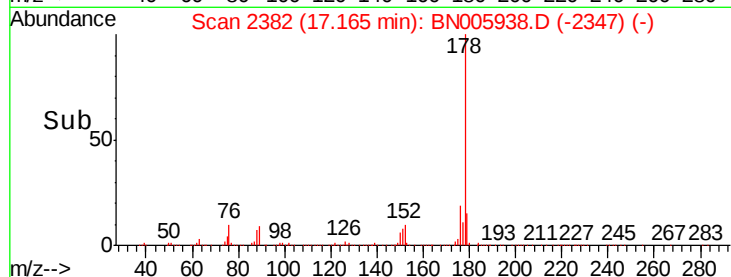
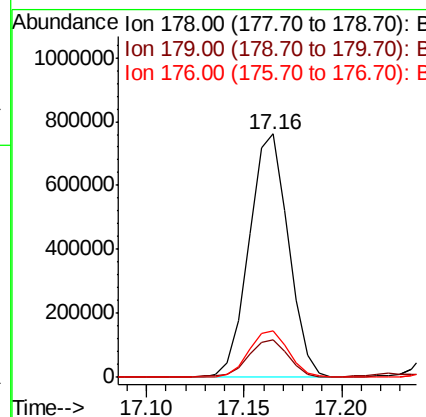
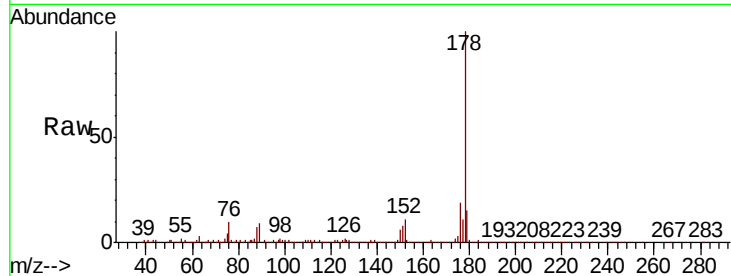
ClientSampled :

A4279

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 178   | Resp: | 1059965 |
| Ion      | Ratio | Lower | Upper   |
| 178      | 100   |       |         |
| 179      | 15.4  | 12.2  | 18.4    |
| 176      | 18.8  | 15.1  | 22.7    |

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#71

Anthracene

Concen: 1.666 ng/ul

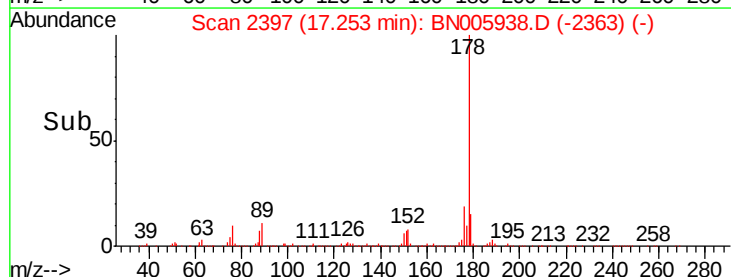
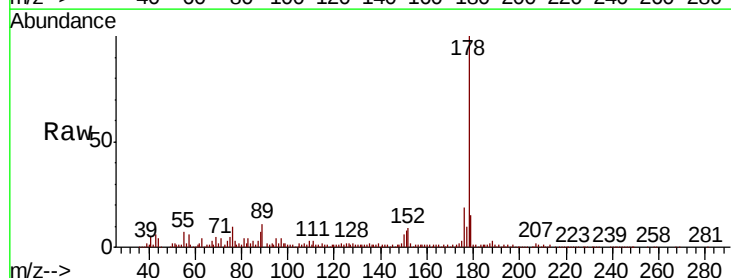
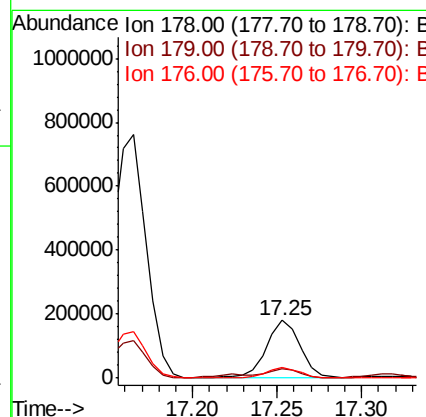
RT: 17.25 min Scan# 2397

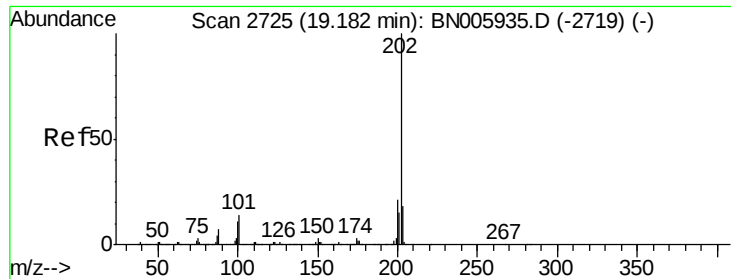
Delta R.T. 0.00 min

Lab File: BN005938.D

Acq: 29 May 2019 19:40

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 178   | Resp: | 246180 |
| Ion      | Ratio | Lower | Upper  |
| 178      | 100   |       |        |
| 179      | 15.3  | 12.3  | 18.5   |
| 176      | 19.4  | 15.1  | 22.7   |





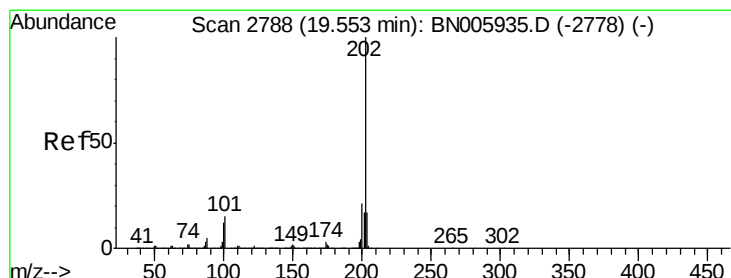
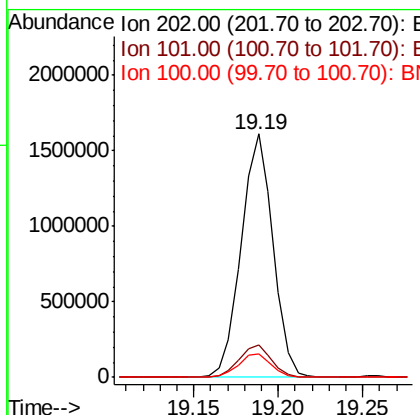
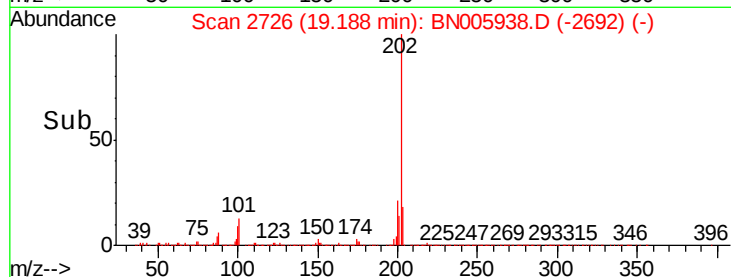
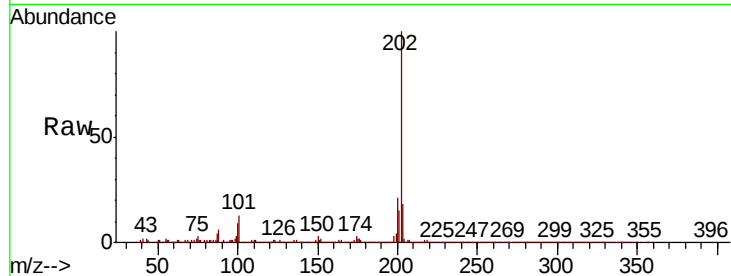
#76  
Fluoranthene  
Concen: 13.533 ng/ul  
RT: 19.19 min Scan# 2726  
Delta R.T. 0.00 min  
Lab File: BN005938.D  
Acq: 29 May 2019 19:40

Instrument :  
BNA\_N  
ClientSampleId :  
A4279

| Tot Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 202     | 100   | 2102810 |       |       |
| 101     | 13.1  | 8.6     | 12.8# |       |
| 100     | 9.4   | 6.3     | 9.5   |       |

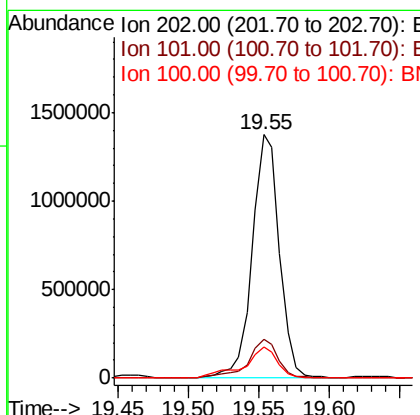
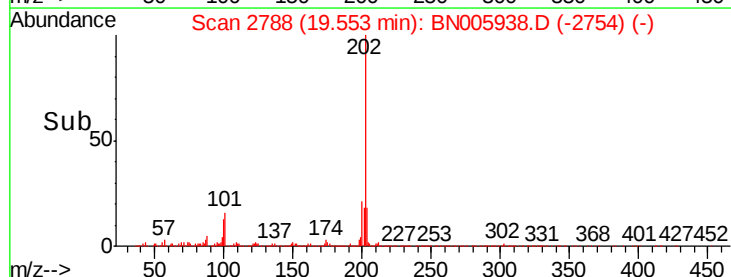
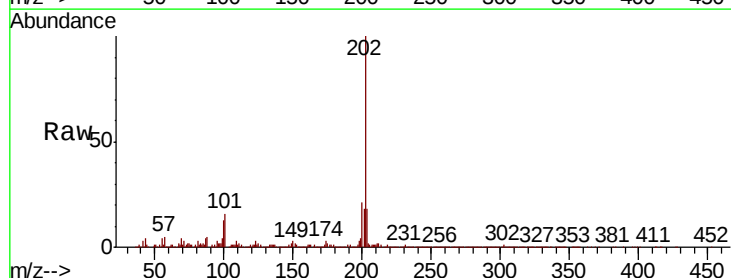
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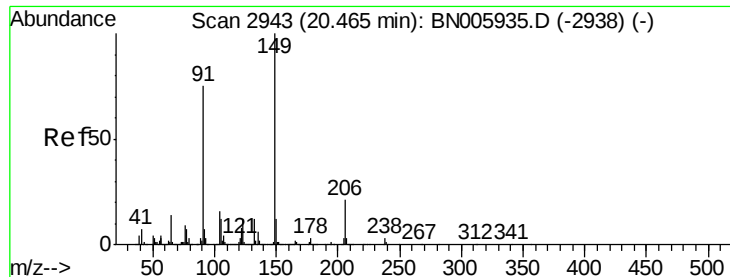
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#79  
Pyrene  
Concen: 13.018 ng/ul  
RT: 19.55 min Scan# 2788  
Delta R.T. 0.00 min  
Lab File: BN005938.D  
Acq: 29 May 2019 19:40

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 202     | 100   | 1854119 |       |       |
| 101     | 15.8  | 10.3    | 15.5# |       |
| 100     | 12.7  | 7.9     | 11.9# |       |





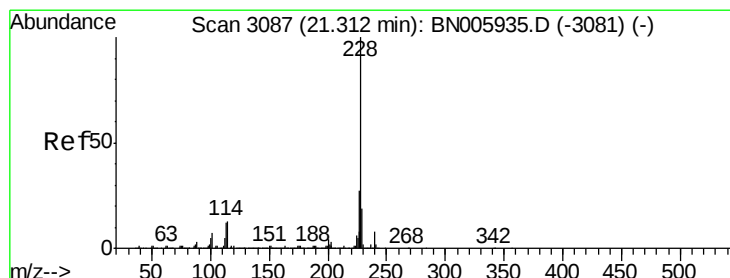
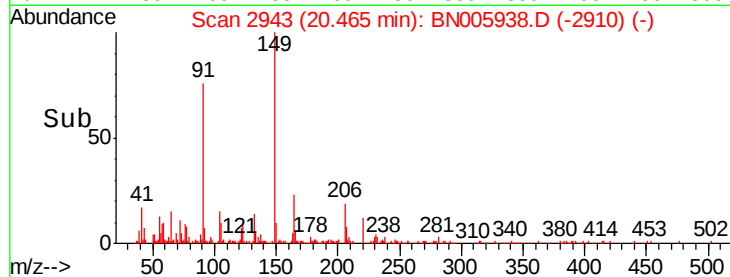
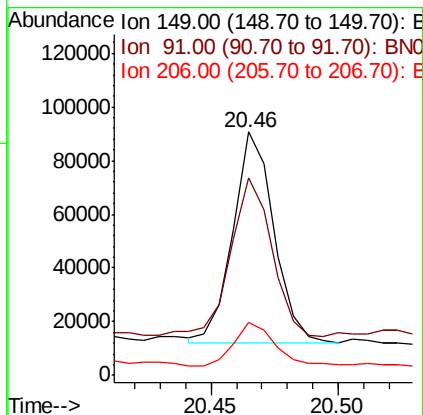
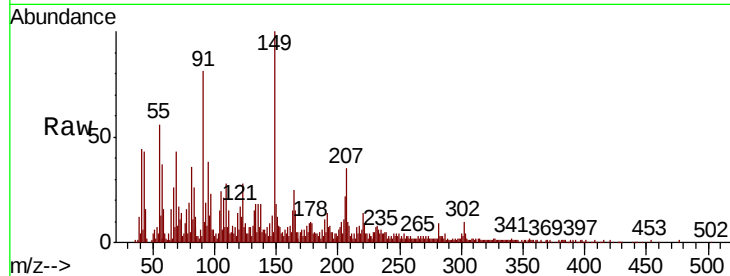
#80  
Butylbenzylphthalate  
Concen: 1.375 ng/ul  
RT: 20.46 min Scan# 2943  
Delta R.T. -0.00 min  
Lab File: BN005938.D  
Acq: 29 May 2019 19:40

Instrument :  
BNA\_N  
ClientSampleId :  
A4279

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 81.1  | 59.6  | 89.4  |
| 206     | 21.7  | 17.8  | 26.8  |

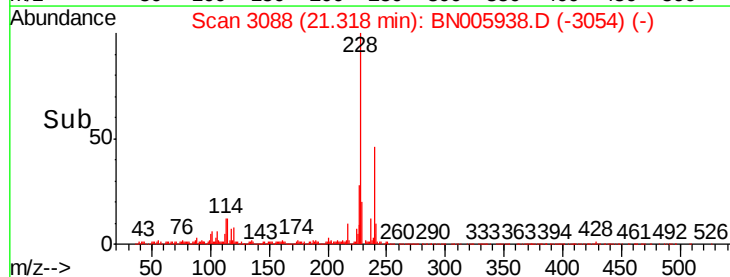
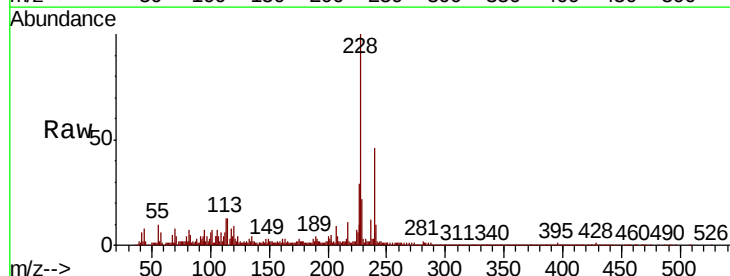
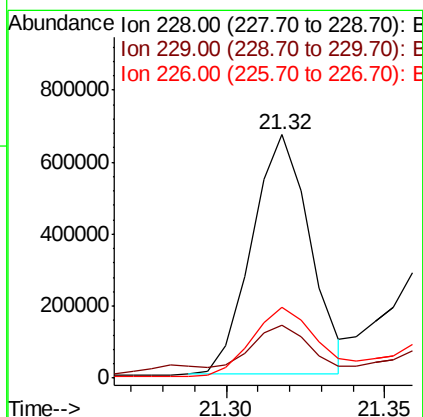
Manual Integrations  
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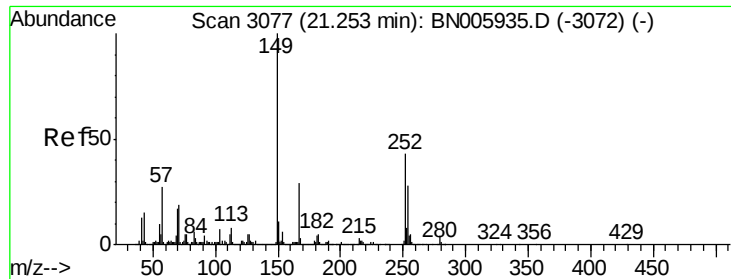
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5/30/2019 1:28:47 PM



#82  
Benzo(a)anthracene  
Concen: 6.019 ng/ul  
RT: 21.32 min Scan# 3088  
Delta R.T. 0.00 min  
Lab File: BN005938.D  
Acq: 29 May 2019 19:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.6  | 15.8  | 23.6  |
| 226     | 29.3  | 21.4  | 32.2  |





#83

Bis(2-ethylhexyl)phthalate

Concen: 2.483 ng/ul

RT: 21.26 min Scan# 3078

Delta R.T. 0.01 min

Lab File: BN005938.D

Acq: 29 May 2019 19:40

Instrument :

BNA\_N

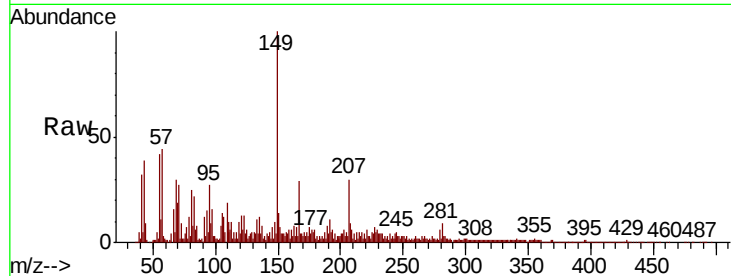
ClientSampled :

A4279

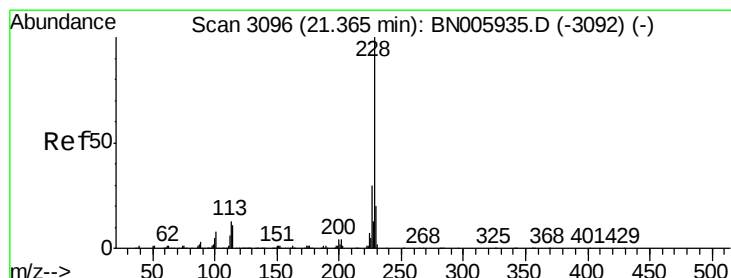
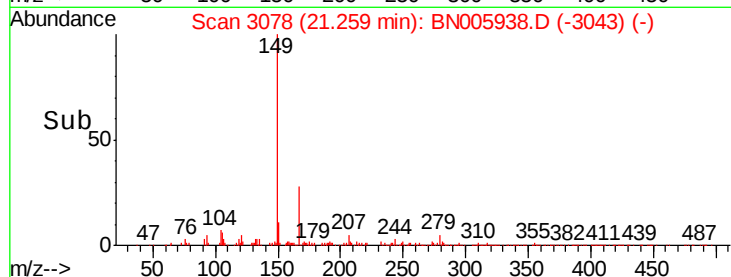
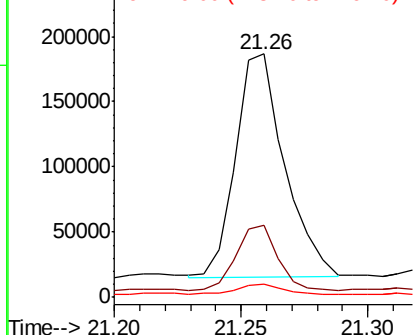
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 149   | Resp: | 230379 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 29.5  | 22.3  | 33.5   |
| 279       | 5.7   | 3.3   | 4.9#   |

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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



#84

Chrysene

Concen: 7.072 ng/ul

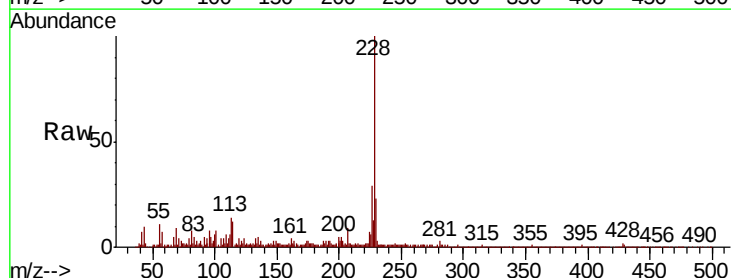
RT: 21.37 min Scan# 3097

Delta R.T. 0.00 min

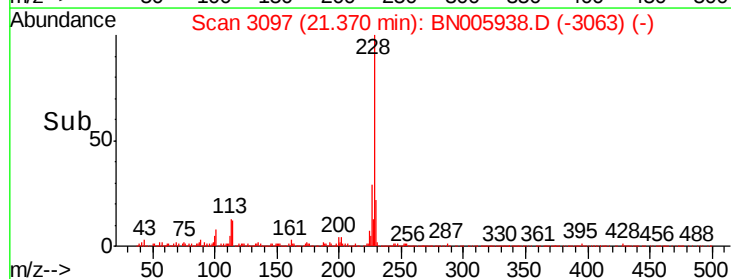
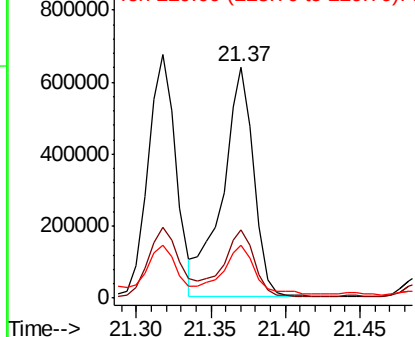
Lab File: BN005938.D

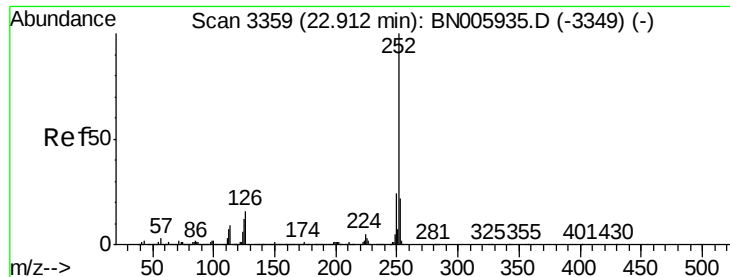
Acq: 29 May 2019 19:40

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 932197 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.4  | 24.0  | 36.0   |
| 229       | 22.6  | 15.4  | 23.0   |



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





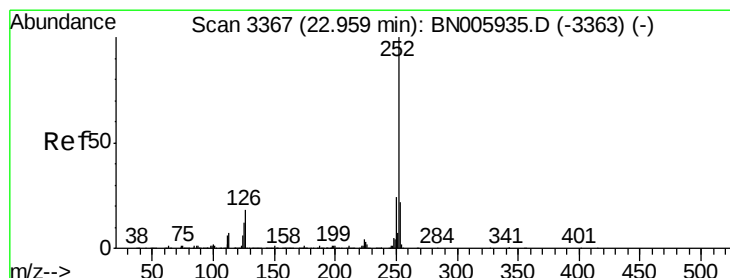
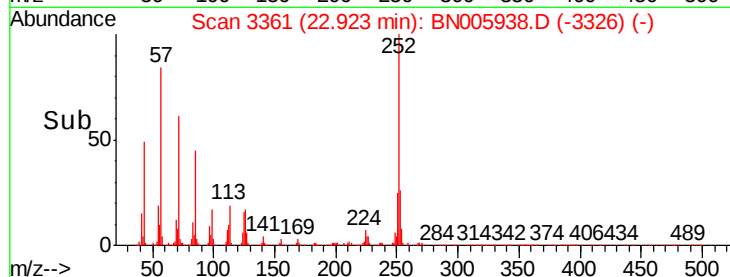
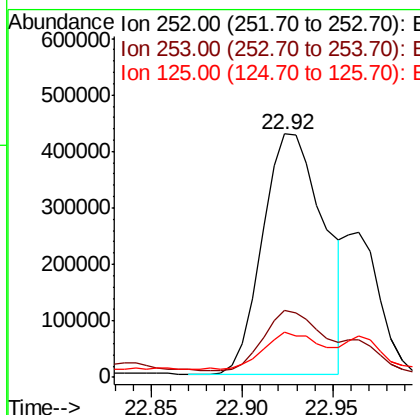
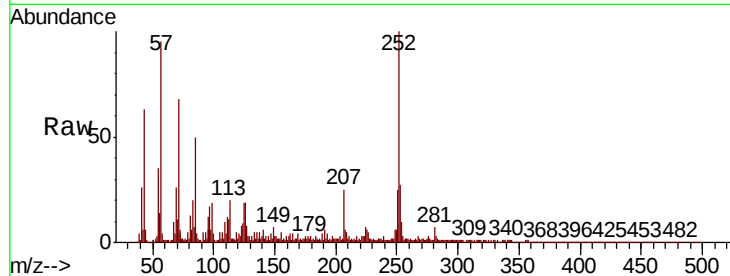
#87  
Benzo(b)fluoranthene  
Concen: 8.675 ng/ul  
RT: 22.92 min Scan# 3361  
Delta R.T. 0.01 min  
Lab File: BN005938.D  
Acq: 29 May 2019 19:40

Instrument :  
BNA\_N  
ClientSampled :  
A4279

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.5  | 17.7  | 26.5# |
| 125     | 18.7  | 8.4   | 12.6# |

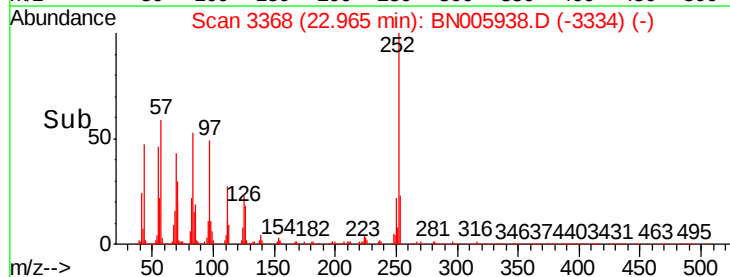
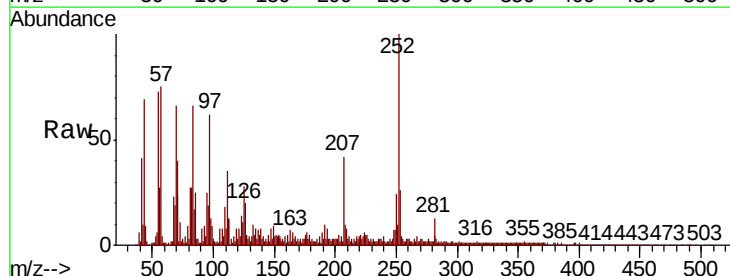
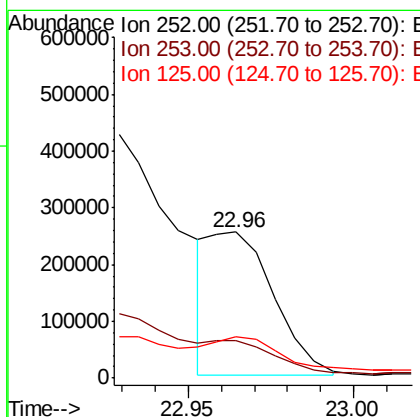
Manual Integrations  
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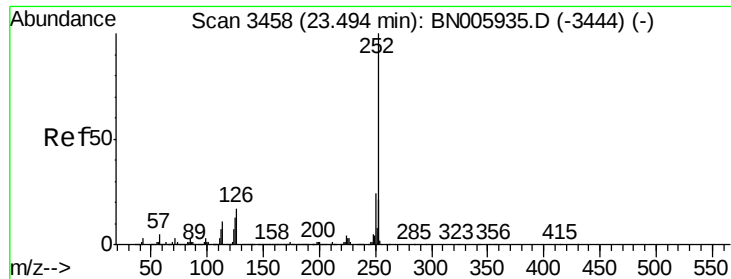
mohammad  
5/30/2019 1:28:47 PM



#88  
Benzo(k)fluoranthene  
Concen: 3.136 ng/ul m  
RT: 22.96 min Scan# 3368  
Delta R.T. 0.00 min  
Lab File: BN005938.D  
Acq: 29 May 2019 19:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.9  | 17.4  | 26.0  |
| 125     | 28.3  | 7.5   | 11.3# |





#90

Benzo(a)pyrene

Concen: 5.947 ng/ul

RT: 23.51 min Scan# 3460

Delta R.T. 0.01 min

Lab File: BN005938.D

Acq: 29 May 2019 19:40

Instrument :

BNA\_N

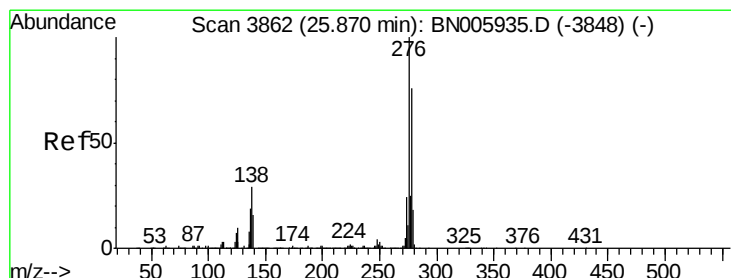
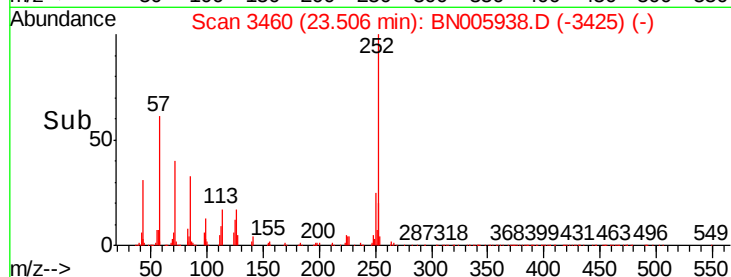
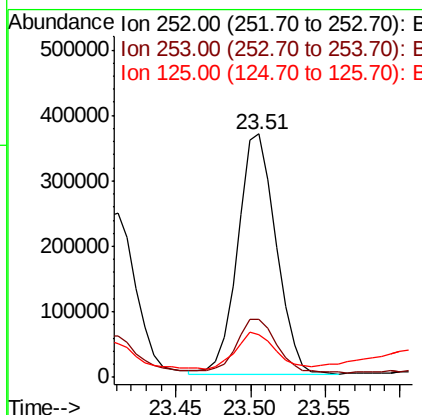
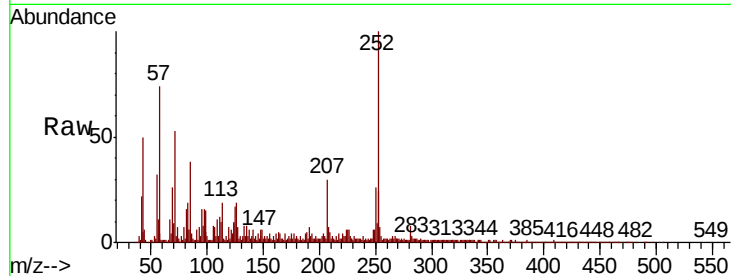
ClientSampled :

A4279

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 652287 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.6  | 17.3  | 25.9   |
| 125       | 17.3  | 8.6   | 13.0#  |

Manual Integrations  
APPROVED

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#91

Indeno(1,2,3-cd)pyrene

Concen: 3.504 ng/ul

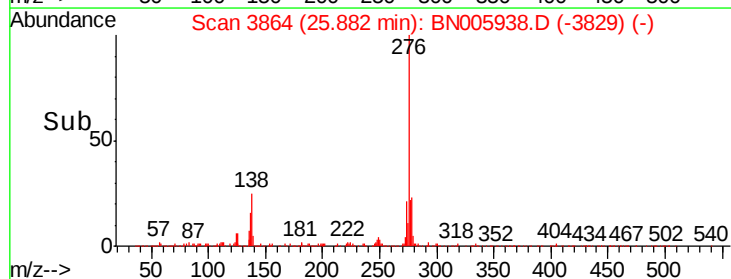
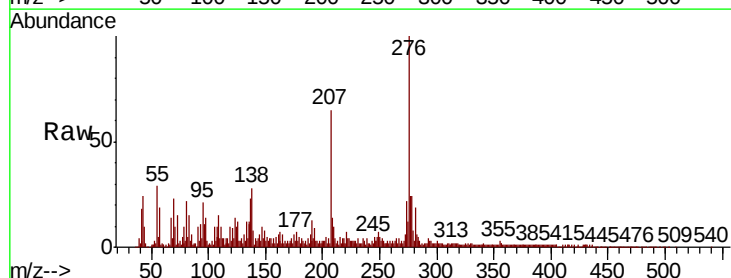
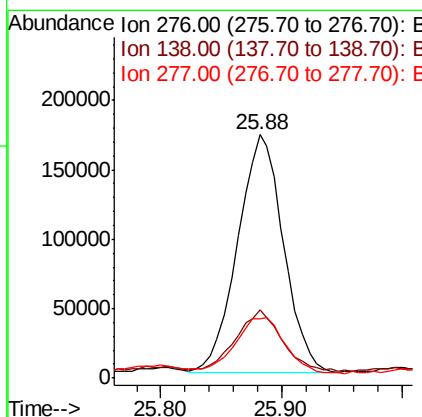
RT: 25.88 min Scan# 3864

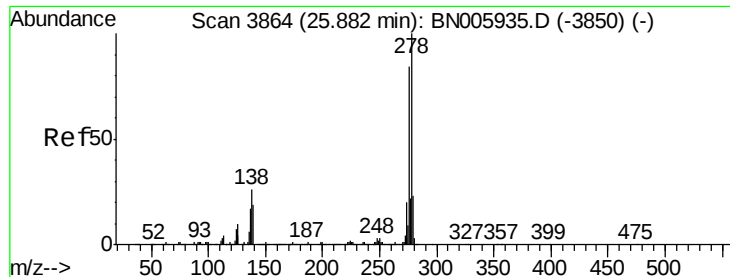
Delta R.T. 0.01 min

Lab File: BN005938.D

Acq: 29 May 2019 19:40

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 451009 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 27.8  | 17.9  | 26.9#  |
| 277       | 24.3  | 19.7  | 29.5   |





#92

Dibenzo(a,h)anthracene

Concen: 1.192 ng/ul

RT: 25.88 min Scan# 3864

Delta R.T. -0.00 min

Lab File: BN005938.D

Acq: 29 May 2019 19:40

Instrument :

BNA\_N

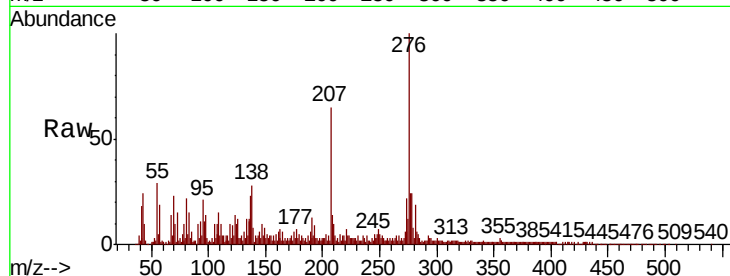
ClientSampled :

A4279

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 278   | Resp: | 127697 |
| Ion Ratio | Lower | Upper |        |
| 278       | 100   |       |        |
| 139       | 32.0  | 13.1  | 19.7#  |
| 279       | 33.0  | 19.4  | 29.0#  |

Manual Integrations  
APPROVED

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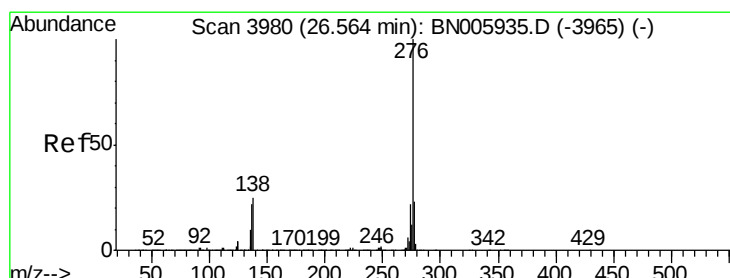
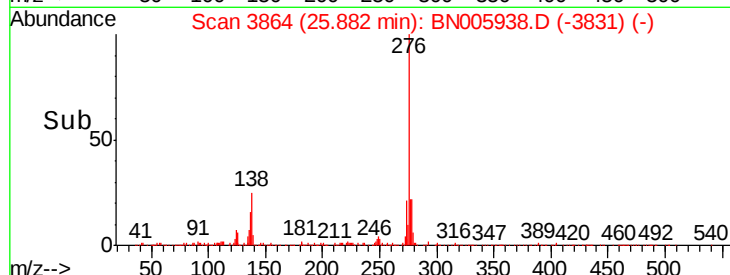
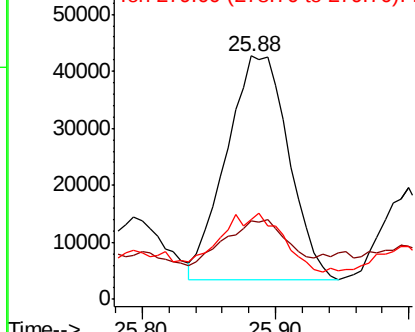


Abundance

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: 2.969 ng/ul

RT: 26.58 min Scan# 3983

Delta R.T. 0.01 min

Lab File: BN005938.D

Acq: 29 May 2019 19:40

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 321763 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 26.0  | 16.7  | 25.1#  |
| 277       | 26.8  | 18.2  | 27.2   |

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

