

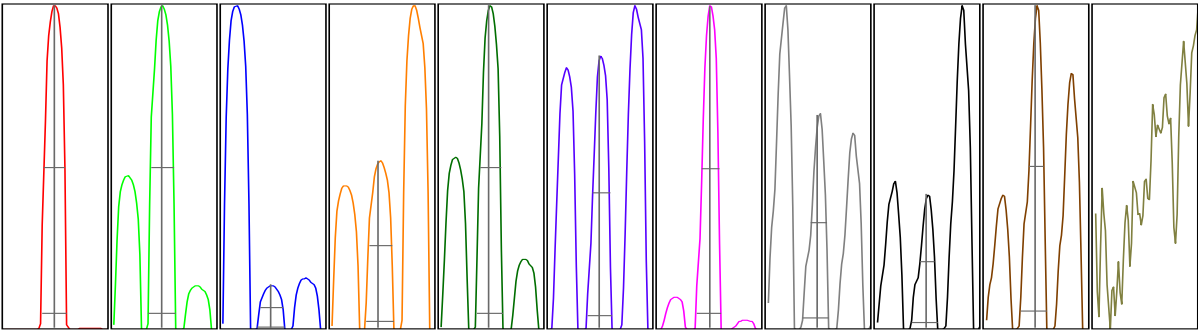
US EPA Tune Check Sample Report

Batch Folder D:\ICP-MS Data\P7092519M.b  
Report Comment  
Instrument Name G8403A JP14410463

| [No Gas] |        |          |            |        |  |
|----------|--------|----------|------------|--------|--|
| Mass     | Count  | RSD%     | RSD%       | RSD%   |  |
|          | (Mean) | (Actual) | (Required) | (Flag) |  |
| 9        | 8913   | 0.38     | 5.00       |        |  |
| 24       | 106103 | 0.28     | 5.00       |        |  |
| 25       | 14291  | 0.26     | 5.00       |        |  |
| 26       | 16850  | 0.19     | 5.00       |        |  |
| 59       | 81120  | 0.36     | 5.00       |        |  |
| 113      | 13295  | 0.40     | 5.00       |        |  |
| 115      | 156807 | 0.65     | 5.00       |        |  |
| 206      | 49399  | 0.51     | 5.00       |        |  |
| 207      | 45170  | 0.68     | 5.00       |        |  |
| 208      | 108967 | 0.53     | 5.00       |        |  |
| 220      | 118    | 5.10     |            |        |  |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 9    | 8905                 | 8922                 | 8920                 | 8957                 | 8863                 |
| 24   | 106273               | 106409               | 105866               | 106244               | 105726               |
| 25   | 14282                | 14332                | 14262                | 14328                | 14252                |
| 26   | 16843                | 16889                | 16856                | 16860                | 16801                |
| 59   | 80834                | 80878                | 81356                | 81489                | 81044                |
| 113  | 13355                | 13329                | 13227                | 13309                | 13257                |
| 115  | 155611               | 157241               | 157168               | 158093               | 155921               |
| 206  | 49388                | 49804                | 49129                | 49391                | 49285                |
| 207  | 45342                | 45569                | 45026                | 45152                | 44758                |
| 208  | 108946               | 109935               | 108513               | 108880               | 108559               |
| 220  | 110                  | 115                  | 122                  | 126                  | 117                  |

Integration Time [sec] = 0.1



| Mass | Peak<br>Height | Axis<br>(Actual) | Axis<br>(Required) | Axis<br>(Flag) | Width-X%<br>(Actual) | Width-X%<br>(Required) | Width-<br>X%<br>(Flag) |
|------|----------------|------------------|--------------------|----------------|----------------------|------------------------|------------------------|
| 9    | 14973          | 9.00             | 8.9 - 9.1          |                | 0.741                | 0.900                  |                        |
| 24   | 169021         | 23.95            | 23.9 - 24.1        |                | 0.789                | 0.900                  |                        |
| 25   | 22743          | 24.95            | 24.9 - 25.1        |                | 0.790                | 0.900                  |                        |
| 26   | 26652          | 25.90            | 25.9 - 26.1        |                | 0.827                | 0.900                  |                        |
| 59   | 141646         | 58.95            | 58.9 - 59.1        |                | 0.779                | 0.900                  |                        |
| 113  | 26942          | 113.00           | 112.9 - 113.1      |                | 0.721                | 0.900                  |                        |
| 115  | 315618         | 115.05           | 114.9 - 115.1      |                | 0.723                | 0.900                  |                        |
| 206  | 105963         | 206.00           | 205.9 - 206.1      |                | 0.739                | 0.900                  |                        |
| 207  | 97315          | 207.00           | 206.9 - 207.1      |                | 0.750                | 0.900                  |                        |
| 208  | 234530         | 208.00           | 207.9 - 208.1      |                | 0.765                | 0.900                  |                        |
| 220  |                |                  | -                  |                |                      |                        |                        |

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 268 Y Axis = Linear

Tune Parameters

## Plasma Paramters ##

| ParameterName | Value | Unit | ParameterName  | Value | Unit  | ParameterName       | Value | Unit         |
|---------------|-------|------|----------------|-------|-------|---------------------|-------|--------------|
| RF Power      | 1600  | W    | Carrier Gas    | 0.80  | L/min | S/C Temp            |       | 2 °C         |
| RF Matching   | 1.80  | V    | Option Gas     | 0.0   | %     | Gas Switch          |       | Dilution Gas |
| Smpl Depth    | 9.0   | mm   | Nebulizer Pump | 0.10  | rpm   | Makeup/Dilution Gas |       | 0.37 L/min   |

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 6.3   | V    | Deflect       | 12.0  | V    |
| Extract 2     | -115.0 | V    | Cell Entrance | -30   | V    | Plate Bias    | -35   | V    |
| Omega Bias    | -60    | V    | Cell Exit     | -50   | V    |               |       |      |

## Cell Parameters ##

| ParameterName | Value | Unit   | ParameterName | Value | Unit | ParameterName         | Value | Unit  |
|---------------|-------|--------|---------------|-------|------|-----------------------|-------|-------|
| Use Gas       | No    |        | OctP Bias     | -8.0  | V    | Energy Discrimination |       | 5.0 V |
| He Flow       | 0.0   | mL/min | OctP RF       | 160   | V    |                       |       |       |

[He]

| Mass | Count  | RSD%     | RSD%       |
|------|--------|----------|------------|
|      | (Mean) | (Actual) | (Required) |
| 59   | 20236  | 0.22     |            |
| 89   | 25234  | 0.34     |            |
| 205  | 36270  | 0.54     |            |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 59   | 20182                | 20254                | 20235                | 20210                | 20299                |
| 89   | 25139                | 25169                | 25269                | 25238                | 25353                |
| 205  | 36014                | 36486                | 36439                | 36238                | 36171                |

Integration Time [sec] = 0.1

Tune Parameters

## Plasma Paramters ##

| ParameterName | Value | Unit | ParameterName  | Value | Unit  | ParameterName       | Value | Unit         |
|---------------|-------|------|----------------|-------|-------|---------------------|-------|--------------|
| RF Power      | 1600  | W    | Carrier Gas    | 0.80  | L/min | S/C Temp            |       | 2 °C         |
| RF Matching   | 1.80  | V    | Option Gas     | 0.0   | %     | Gas Switch          |       | Dilution Gas |
| Smpl Depth    | 9.0   | mm   | Nebulizer Pump | 0.10  | rpm   | Makeup/Dilution Gas |       | 0.37 L/min   |

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 6.1   | V    | Deflect       | 1.0   | V    |
| Extract 2     | -105.0 | V    | Cell Entrance | -40   | V    | Plate Bias    | -60   | V    |
| Omega Bias    | -55    | V    | Cell Exit     | -60   | V    |               |       |      |

## Cell Parameters ##

| ParameterName | Value | Unit   | ParameterName | Value | Unit | ParameterName         | Value | Unit  |
|---------------|-------|--------|---------------|-------|------|-----------------------|-------|-------|
| Use Gas       | Yes   |        | OctP Bias     | -18.0 | V    | Energy Discrimination |       | 5.0 V |
| He Flow       | 4.1   | mL/min | OctP RF       | 190   | V    |                       |       |       |