**Typical Parameters for Optimal CMS Performance with Minimal Fragmentation**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Application** | **Capillary Temp (oC)** | **Capillary Voltage (V)** | **Source Voltage Offset (V)** | **Source Voltage Span (V)** | **Source Gas Temp (oC)** | **ESI Voltage (V)** |
| **Positive ESI** (Generally Basic Compounds; *m/z* <1200; Thermally Stable;  Analyte/s do not fragment easily) | \*250/300 | 180 | 30 | 20 | \*300/350 | 3500^ |
| **Positive ESI** (Generally Basic Compounds; *m/z* <1200; Thermally Stable; Analyte/s readily fragment via CID) | \*250/300 | 150 | 25 | 0 | \*300/350 | 3500^ |
| **Positive ESI** (Generally Basic Compounds; *m/z* <1200; Thermally Labile; Analyte/s readily fragment via CID and/or thermal degradation) | \*200/200 | 150 | 20 | 0 | \*200/200 | 3500^ |
| **Positive ESI (expression-L)** (Peptides and Large Molecules; *m/z* up to 2000; Thermally Labile; Analyte/s readily fragment via CID and/or thermal degradation) | \*200/200 | 180 | 25 | 10 | \*200/200 | 3500^ |

**\*expression CMS/expression-S or –L CMS ^Compound Dependent**

**Typical Parameters for Optimal CMS Performance with Minimal Fragmentation**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Application** | **Capillary Temp (oC)** | **Capillary Voltage (V)** | **Source Voltage Offset (V)** | **Source Voltage Span (V)** | **Source Gas Temp (oC)** | **ESI Voltage (V)** |
| **Negative ESI** (Generally Acidic Compounds; *m/z* <1200; Thermally Stable;  Analyte/s do not fragment easily) | \*250/300 | 180 | 30 | 20 | \*300/350 | 2500^ |
| **Negative ESI** (Generally Acidic Compounds; *m/z* <1200; Thermally Stable; Analyte/s readily fragment via CID) | \*250/300 | 150 | 25 | 0 | \*300/350 | 2500^ |
| **Negative ESI** (Generally Acidic Compounds; *m/z* <1200; Thermally Labile; Analyte/s readily fragment via CID and/or thermal degradation) | \*200/200 | 150 | 20 | 0 | \*200/200 | 2500^ |
| **Negative ESI (expression-L)** (Peptides and Large Molecules; *m/z* up to 2000; Thermally Labile; Analyte/s readily fragment via CID and/or thermal degradation) | \*200/200 | 180 | 25 | 10 | \*200/200 | 2500^ |

**\*expression CMS/expression-S or –L CMS ^Compound Dependent**

**Typical Parameters for Optimal CMS Performance with Minimal Fragmentation**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Application** | **Capillary Temp (oC)** | **Capillary Voltage (V)** | **Source Voltage Offset (V)** | **Source Voltage Span (V)** | **APCI Source Gas Temp (oC)** | **Corona Current (uA)** |
| **Positive APCI** (Generally Non-Polar or Neutral Compounds; *m/z* <1200; Thermally Stable;  Analyte/s do not fragment easily) | \*250/300 | 180 | 30 | 20 | \*350/400 | \*^5/10 |
| **Positive APCI** (Generally Non-Polar or Neutral Compounds; *m/z* <1200; Thermally Stable; Analyte/s readily fragment via CID) | \*250/300 | 150 | 25 | 0 | \*350/400 | \*^5/10 |
| **Positive APCI** (Generally Non-Polar or Neutral Compounds; *m/z* <1200; Thermally Labile; Analyte/s readily fragment via CID and/or thermal degradation) | \*200/200 | 150 | 20 | 0 | \*250/250 | \*^5/10 |
| **Positive APCI (expression-L)** (Peptides and Large Molecules; *m/z* up to 1000; Thermally Labile; Analyte/s readily fragment via CID and/or thermal degradation) | \*200/200 | 180 | 20 | 0 | \*250/250 | \*^5/10 |

**\*expression CMS/expression-S or –L CMS ^Compound Dependent**

**Typical Parameters for Optimal CMS Performance with Minimal Fragmentation**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Application** | **Capillary Temp (oC)** | **Capillary Voltage (V)** | **Source Voltage Offset (V)** | **Source Voltage Span (V)** | **APCI Source Gas Temp (oC)** | **Corona Current (uA)** |
| **Negative APCI** (Generally Non-Polar or Neutral Compounds; *m/z* <1200; Thermally Stable;  Analyte/s do not fragment easily) | \*250/300 | 180 | 30 | 20 | \*350/400 | \*^5/25 |
| **Negative APCI** (Generally Non-Polar or Neutral Compounds; *m/z* <1200; Thermally Stable; Analyte/s readily fragment via CID) | \*250/300 | 150 | 25 | 0 | \*350/400 | \*^5/25 |
| **Negative APCI** (Generally Non-Polar or Neutral Compounds; *m/z* <1200; Thermally Labile; Analyte/s readily fragment via CID and/or thermal degradation) | \*200/200 | 150 | 20 | 0 | \*250/250 | \*^5/25 |
| **Negative APCI (expression-L)** (Peptides and Large Molecules; *m/z* up to 1000; Thermally Labile; Analyte/s readily fragment via CID and/or thermal degradation) | \*200/200 | 180 | 20 | 0 | \*250/250 | \*^5/25 |

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