# UltraFAIMS B1 – Chip Region Temperature Guidelines



The UltraFAIMS chip module is rated to withstand temperatures up to 150ºC. **Avoid exposing this component to temperatures above this limit.**

As a guide, the table below shows chip region temperature measured for a range of typical drying gas temperatures and flow rates. These were measured on a Bruker Impact HD mass spectrometer with an Apollo II ESI source.

|  |  |  |
| --- | --- | --- |
| **Drying Gas Temperature** | **Drying Gas Flow rate** | **Measured chip region temperature** |
| 180ºC | 4l/min | 70ºC |
| 180ºC | 6l/min | 85ºC |
| 250ºC | 4l/min | 82ºC |
| 300ºC | 4l/min | 92ºC |
| 300ºC | 6l/min | 110ºC |

The Owlstone User Interface software requires a chip region temperature value to be provided when setting up a sweep, so that reduced field values in Townsends (Td) can be calculated. The values in this table can be used as a rough indication. For better accuracy of reporting Td values, customers may prefer to make their own temperature measurements for the specific operation conditions used.

Allow 20-30 minutes after installation for the interface temperature to stabilize before carrying out FAIMS experiments.