



Agilent Technologies

Premier Solution Partner

## TECHNICAL NOTE

### SIM Inlet Split/Splitless: Column Installation

1. **Install the knurled nut and graphite ferrule** at the column end and pull the nut and ferrule down the tubing approximately 1 to 2 cm.
2. **Slightly fix the graphite ferrule.** Insert the column into the injector. Finger tighten the column nut until it starts to grab the column. Then pull the column out of the injector again and you can carefully adjust the ferrule.
3. **Score (cut) the column.** After pulling the nut and ferrule down the tubing approximately 4 cm, use a light touch to score the column about 2 to 3 cm from the end.
4. **Make a clean break.** Grasp the column between the thumb and forefinger as close to the score point as possible. Gently PULL and bend the column. The column should part easily. If the column doesn't break easily, don't force it! Score the column again in a different place, and try for a clean break.
5. **Use a magnifying glass to inspect the cut.** Make sure the cut is square across the tubing with no polyimide or glass fragments at the end of the tube.
6. **Install the column in the inlet.** The correct insertion distance is 17mm (see figure below; the adapter A 0017 is the part of the SIM inlet in which the column has to be inserted). Adjust the graphite ferrule at this definite position. Insert the column into the injector. Finger tighten the column nut until it starts to grab the column, and then tighten the nut an additional  $\frac{1}{4}$  to  $\frac{1}{2}$  turn so that the column cannot be pulled from the fitting when gentle pressure is applied.

