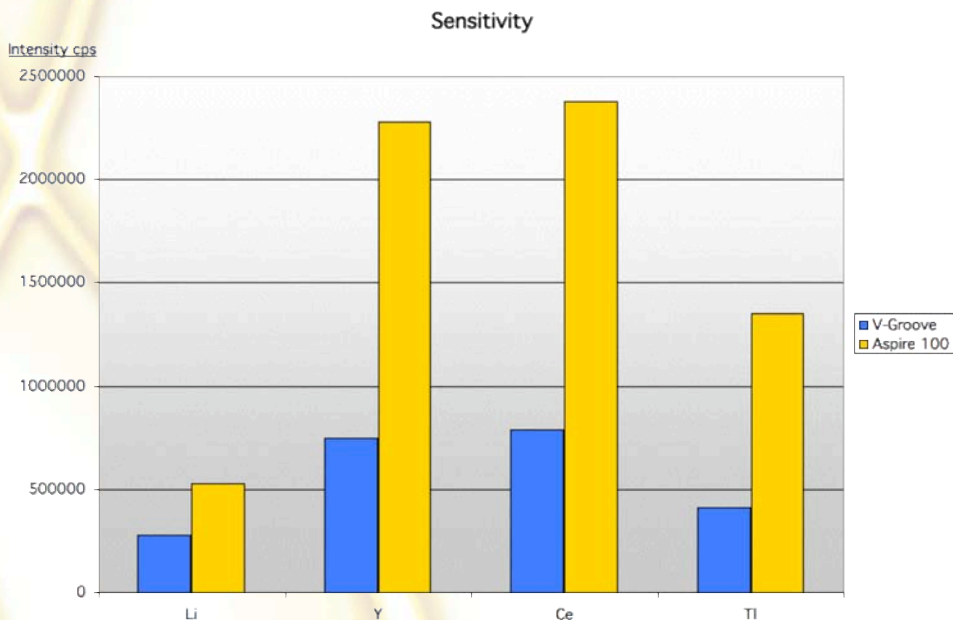
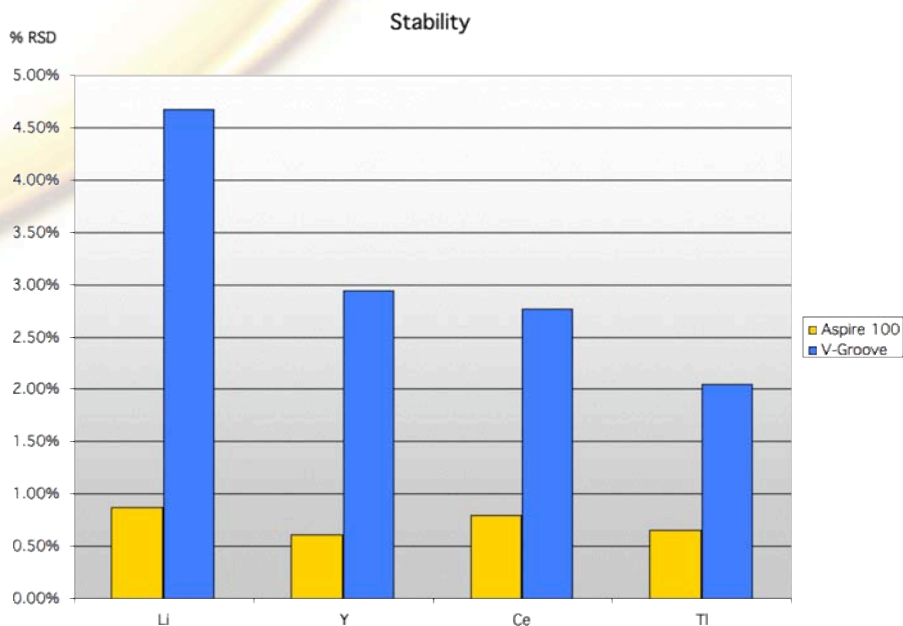


Aspire-100 Technical Note

ICP-MS signal and stability were tested with an Aspire-100 PFA nebulizer. The following graphs compare the performance of the Aspire-100 self-aspirating at 100 $\mu\text{l}/\text{min}$ versus a standard V-Groove nebulizer pumped at 900 $\mu\text{l}/\text{min}$.



Intensities for Li, Y, Ce and Tl are increased up to 3 fold due to the greater nebulization efficiency of the Aspire-100. Stability is also much improved, with %RSDs <1%. The CeO/Ce ratio is $\approx 0.5\%$ for either nebulizer.



Operating Conditions:
ICP-MS: Agilent 4500
Forward Power: 1300 W
Carrier gas flow: 1.0 Lpm, Blend gas flow: 0.05 Lpm
Liquid uptake: 100 $\mu\text{l}/\text{min}$
Spray Chamber Temperature: 3°C
Integration Time: 1 second

