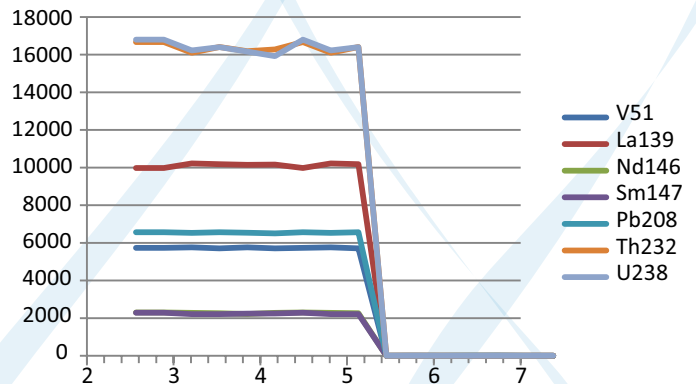


# CleanShot

The shortest distance between two points

- Increases washout speed
- Maximizes signal strength
- Minimizes aerosol transport fractionation
- Purges entire aerosol transport line all the way to the torch



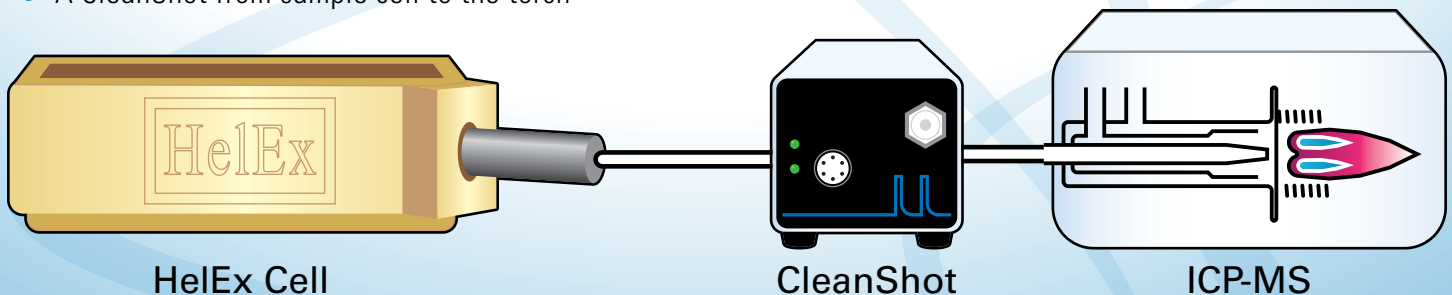
The CleanShot shortens washout for faster repositioning of samples and keeps the extraction line clean and memory free.

## About the CleanShot

The CleanShot Fast Washout Switch eliminates unnecessary extraction tubing, solenoids and fittings from the laser ablation sample cell to the ICPS torch that reduce aerosol transport efficiency and speed. Aerosol transport losses are a known contributor to fractionation caused in large part by surface area as a function of tube length and tube ID, circuitous paths that particles travel and transitions caused by fittings. Each of these factors keep analyte from reaching the torch. With CleanShot, the sample passes straight through only one valve before being ionized.

CleanShot is designed for use with Teledyne CETAC and Teledyne Photon Machines laser ablation systems and is located at the torch for optimal performance to minimize losses and yield better data.

- A direct line from the sample cell to the CleanShot ensures the **shortest, straightest** path to the torch
- **Delivers** faster washout, stronger signals, improved fractionation and a clean extraction line
- It is the **only** device that purges and/or evacuates the **entire extraction line** to eliminate memory effects
- **Fully automated** control via the industry-leading Chromium laser ablation software platform
- A CleanShot from sample cell to the torch



CETAC Technologies and Photon Machines joined forces back in June 2010 with a view to advance laser ablation technology for elemental analysis, and to offer a full range of products globally. This collaboration brought together the experience in Photon Machines' design team with the sample introduction expertise of CETAC. This partnership has taken the next natural step and both companies have merged under the Teledyne Instruments banner.

Teledyne Photon Machines, a brand of Teledyne CETAC Technologies, provides laser ablation systems including CO<sub>2</sub> and diode lasers, 213 nm solid state Nd:YAG, 193 excimer laser systems and femtosecond laser systems. In addition, the company provides accessories to enhance the capabilities of laser ablation systems.



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