

## Liquid Calibration System (LCS)

Direct calibration of instrument response using aqueous standards



### Features

- Compatible with single standard and mixtures
- Precise liquid flow control
- Wide concentration range pptv – ppmv
- Fast response in seconds
- Wide volatility range up to C12 hydrocarbons
- Easily exchangeable liquid reservoir
- Cost effective compared to gas calibrations

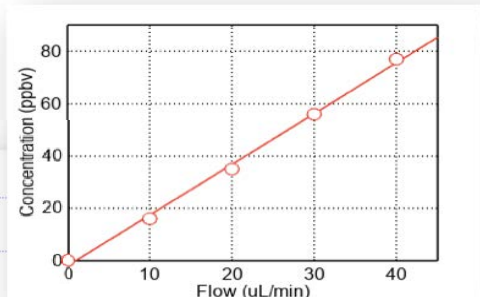
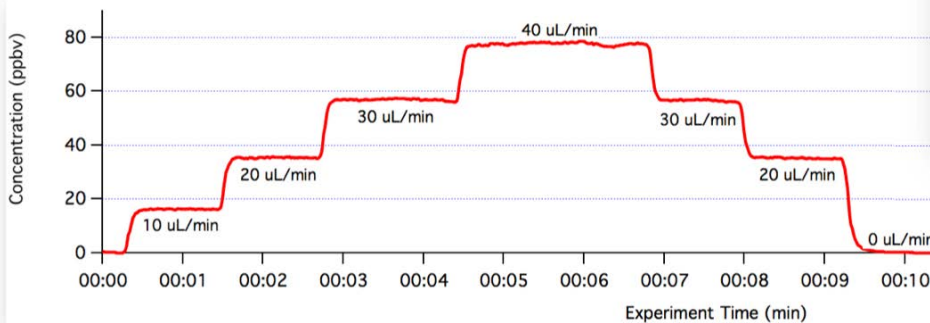
### Uses

- Determination of instrument sensitivity and detection limit
  - Interpretation of gas-phase data
  - Direct liquid analysis
- Trace contaminants in water analysis

# Vocus PTR-TOF

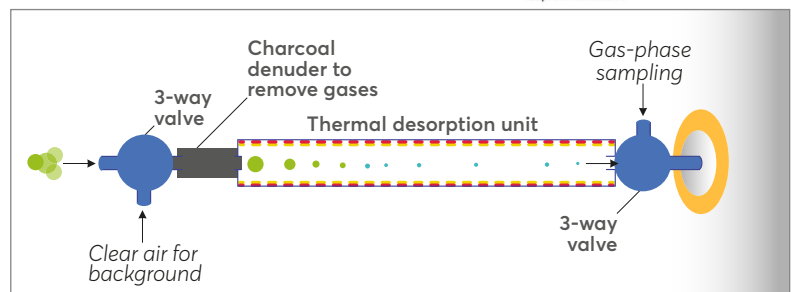
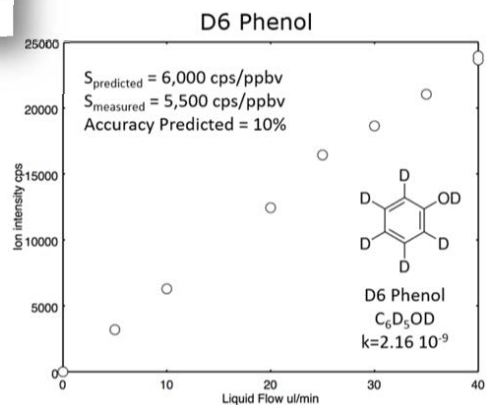
## Liquid calibration of acetone

Linear and stable calibration is obtained with the continuous measurements from Vocus PTR-TOF by simply adjusting the liquid flow rate of the standard



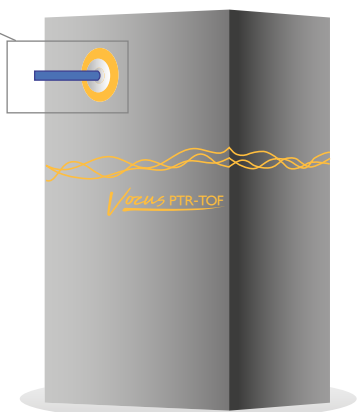
## Sensitivity Check on D6 Phenol

The predicted sensitivity of phenol (D6) can be estimated using the reaction rate coefficient. The LCS allows a fast measurement of the sensitivity to check the accuracy of the prediction. Predicted accuracy of 10% was achieved for D6 phenol.



## Specifications

Liquid Flow Rate	0 to 50 $\mu\text{L}/\text{min}$
Dilution Gas Flow Rate	0 to 2 L/min
Flow Precision	5%
Evaporation Temperature	100 to 200C
Transfer Line Temperature	Ambient to 250C
Size	25 x 15 x 10 cm, 4 kg



AERODYNE RESEARCH, Inc.

[www.aerodyne.com](http://www.aerodyne.com)

[cacc-support@aerodyne.com](mailto:cacc-support@aerodyne.com)