

Article

# Novel Calibration Approach for Monitoring Aerosol Hydrogen Isotopes Using Laser-Induced Breakdown Spectroscopy for Molten Salt Reactor Off-Gas Streams

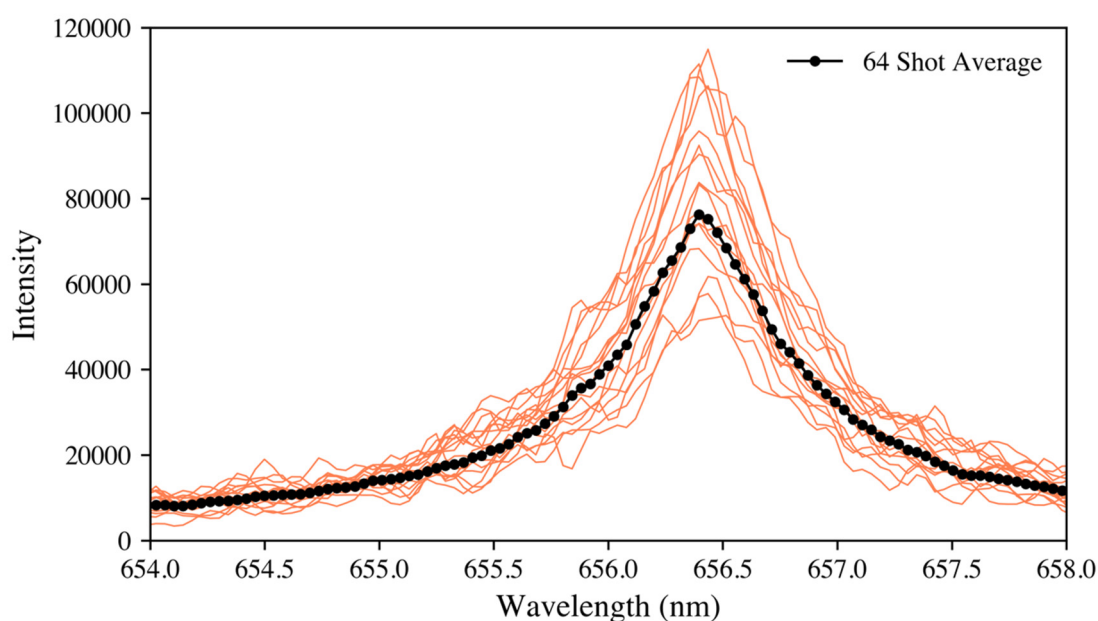
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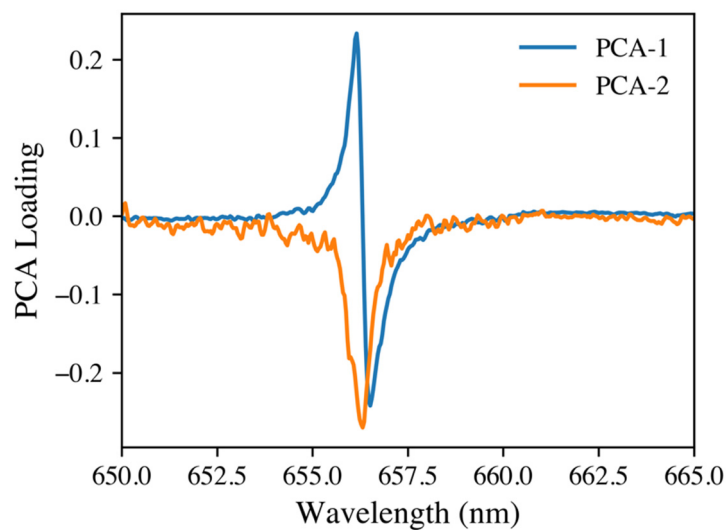
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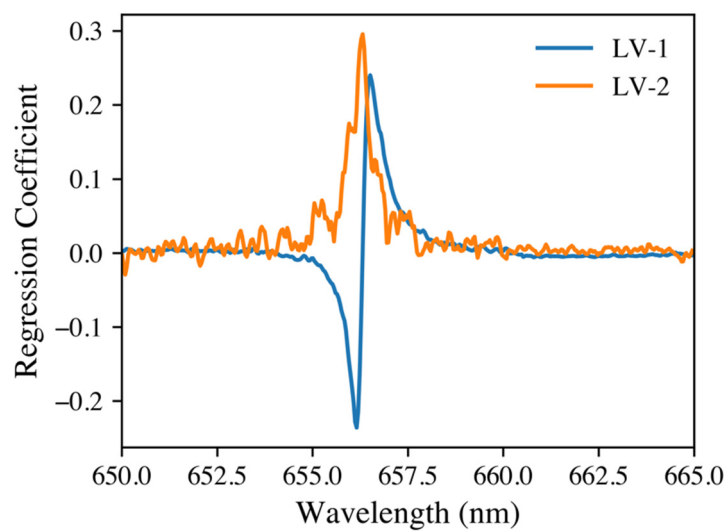
## Supplementary Information



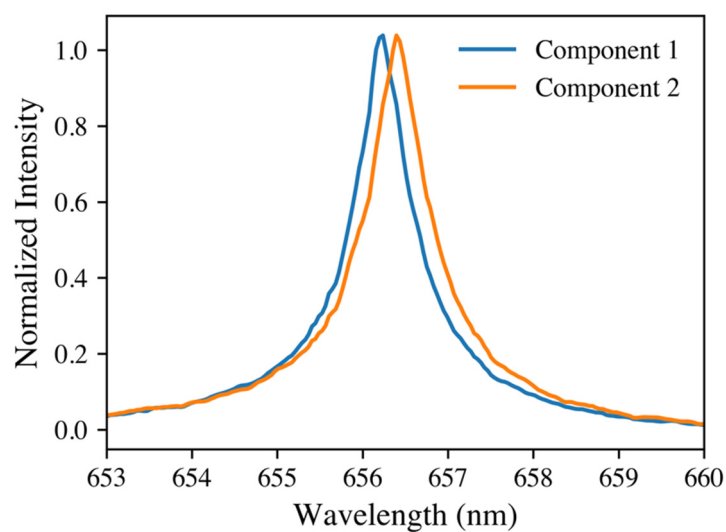
**Figure S1.** Single-shot spectra versus 64-shot average spectrum of 0% D<sub>2</sub>O used to better resolve peak center.



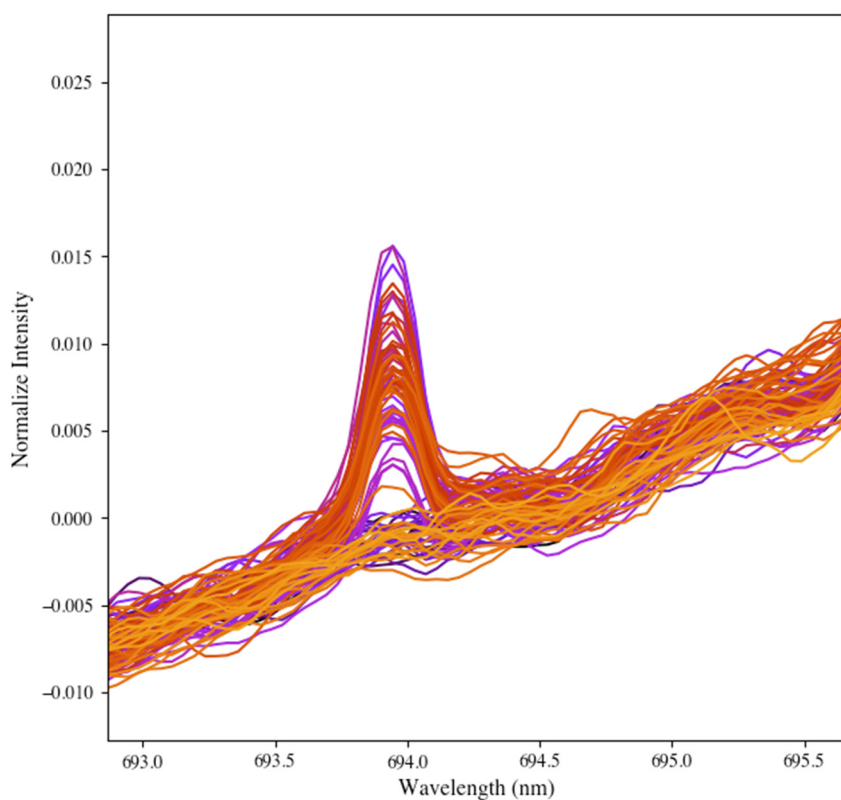
**Figure S2.** PCA loadings for hydrogen isotope shifts measured on the echelle spectrometer.



**Figure S3.** PLSR regression coefficients for hydrogen isotope shifts measured on the echelle spectrometer.



**Figure S4.** MCR pure spectral components for hydrogen isotope shifts measured on the echelle spectrometer.



**Figure S5.** Potassium 693.3 nm emission over the duration of the real-time tests.