

HELIOS IR

Mid-IR Transient Absorption Spectrometer

Femtosecond Transient Absorption of $\text{Mn}_2(\text{CO})_{10}$

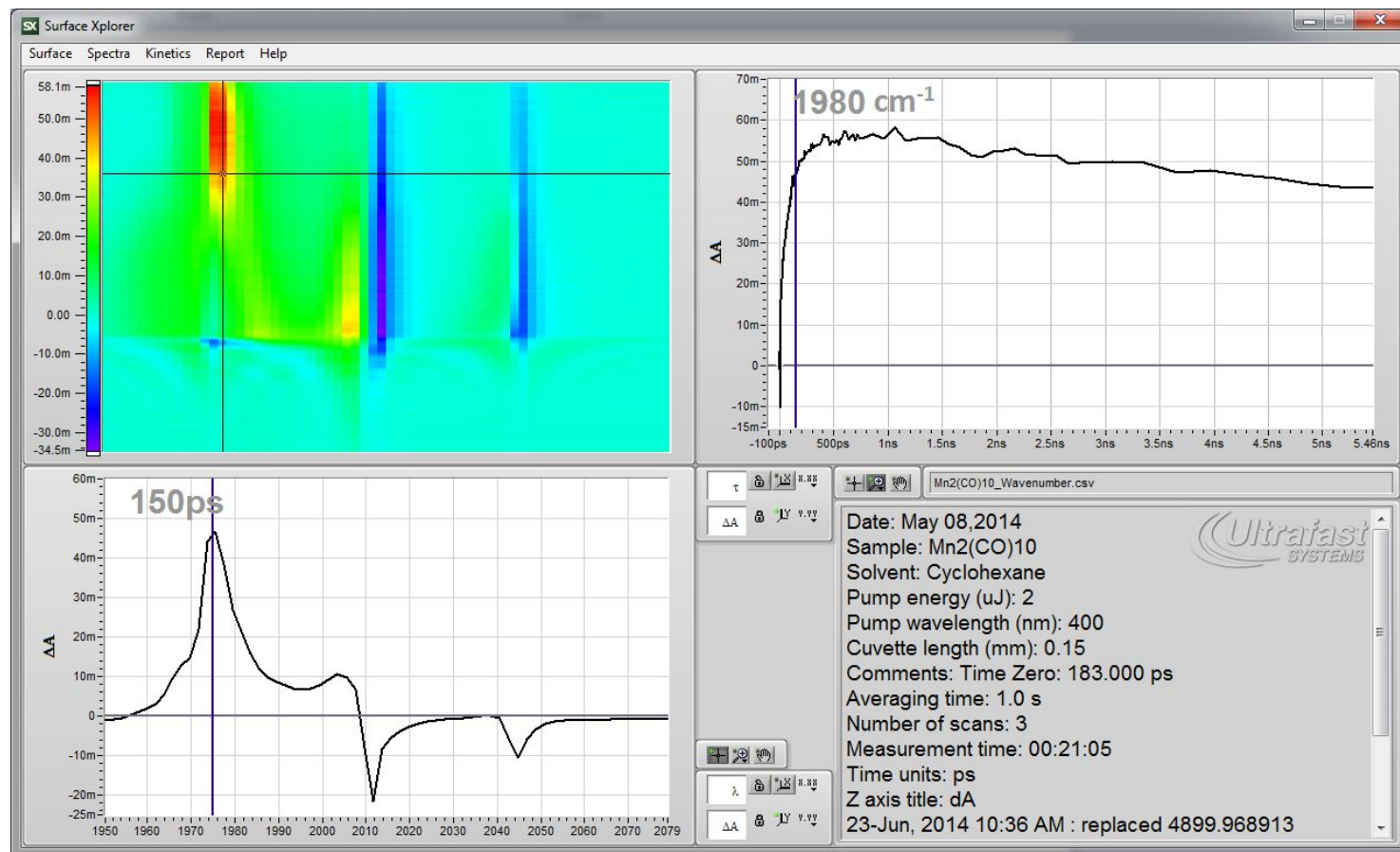
DATA EXAMPLE



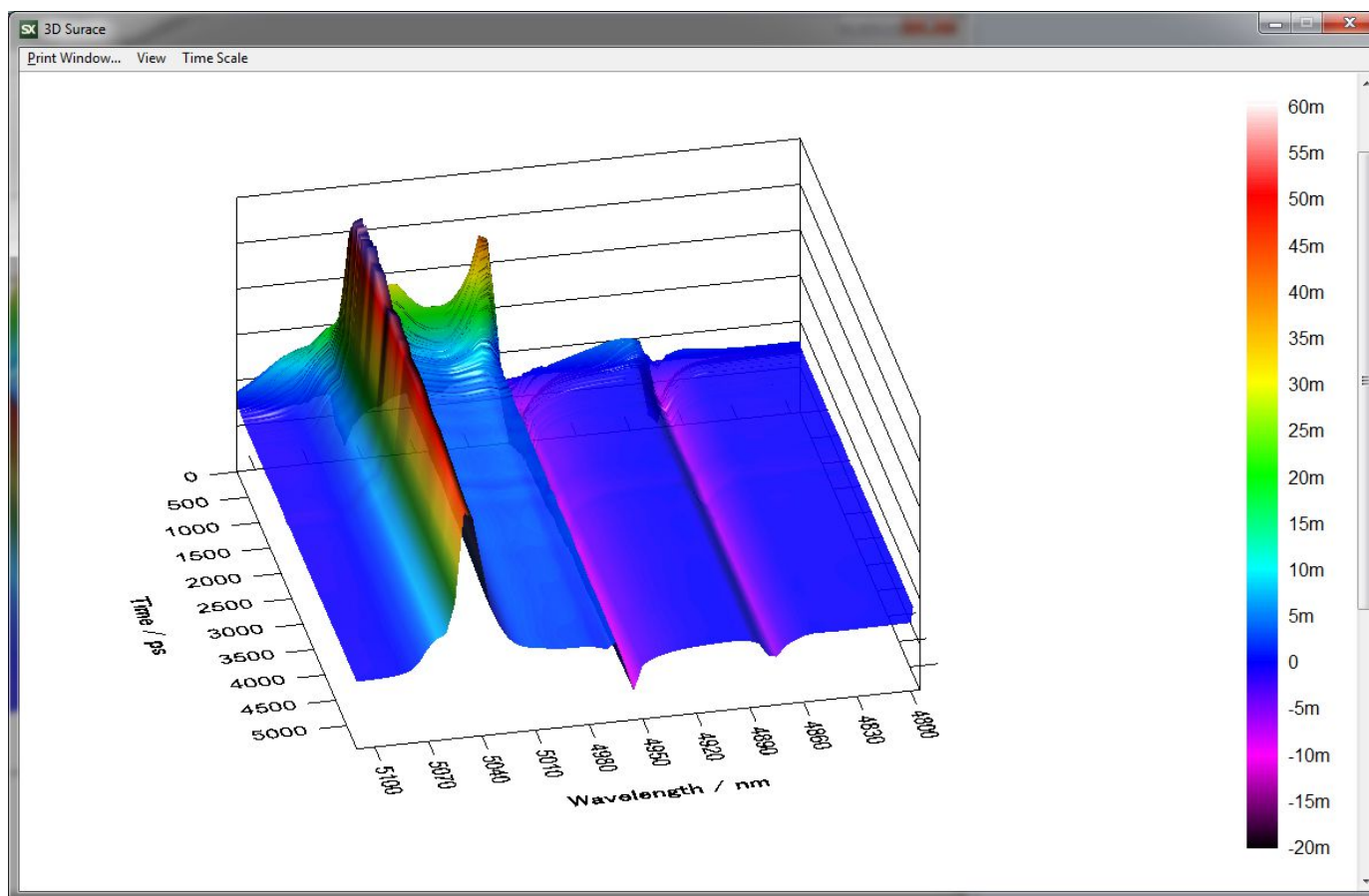
Experiment Details

- Sample: $\text{Mn}_2(\text{CO})_{10}$
- Solvent: Cyclohexane
- Laser / OPA: Libra (Coherent) @ 1 kHz / TOPAS
- Pump energy: 2 μJ
- Pump wavelength: 400 nm
- Sample thickness: 0.15 mm
- Number of scans: 3
- Measurement time: 00:21:05

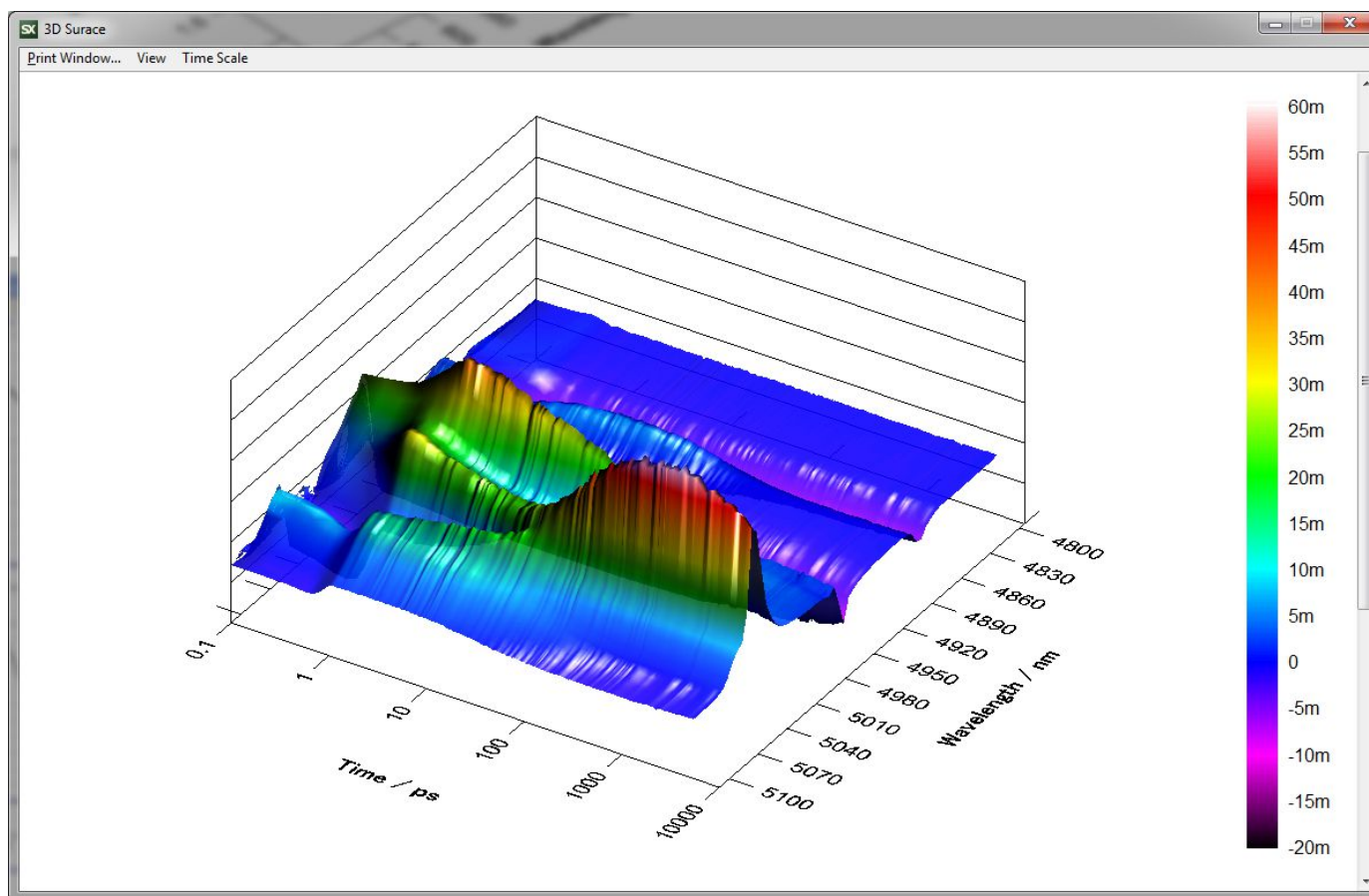
Mn₂(CO)₁₀ Dynamic Surface with Kinetic and Spectral Slices in Surface Xplorer Software



Dynamic Surface of $\text{Mn}_2(\text{CO})_{10}$ Linear Timescale



Dynamic Surface of $\text{Mn}_2(\text{CO})_{10}$ Logarithmic Timescale



Transient Kinetics & Spectra of $\text{Mn}_2(\text{CO})_{10}$ in Cyclohexance

