

HALCYONE Pico

TCSPC Fluorescence Spectrometer

Phosphorescence of Singlet Oxygen

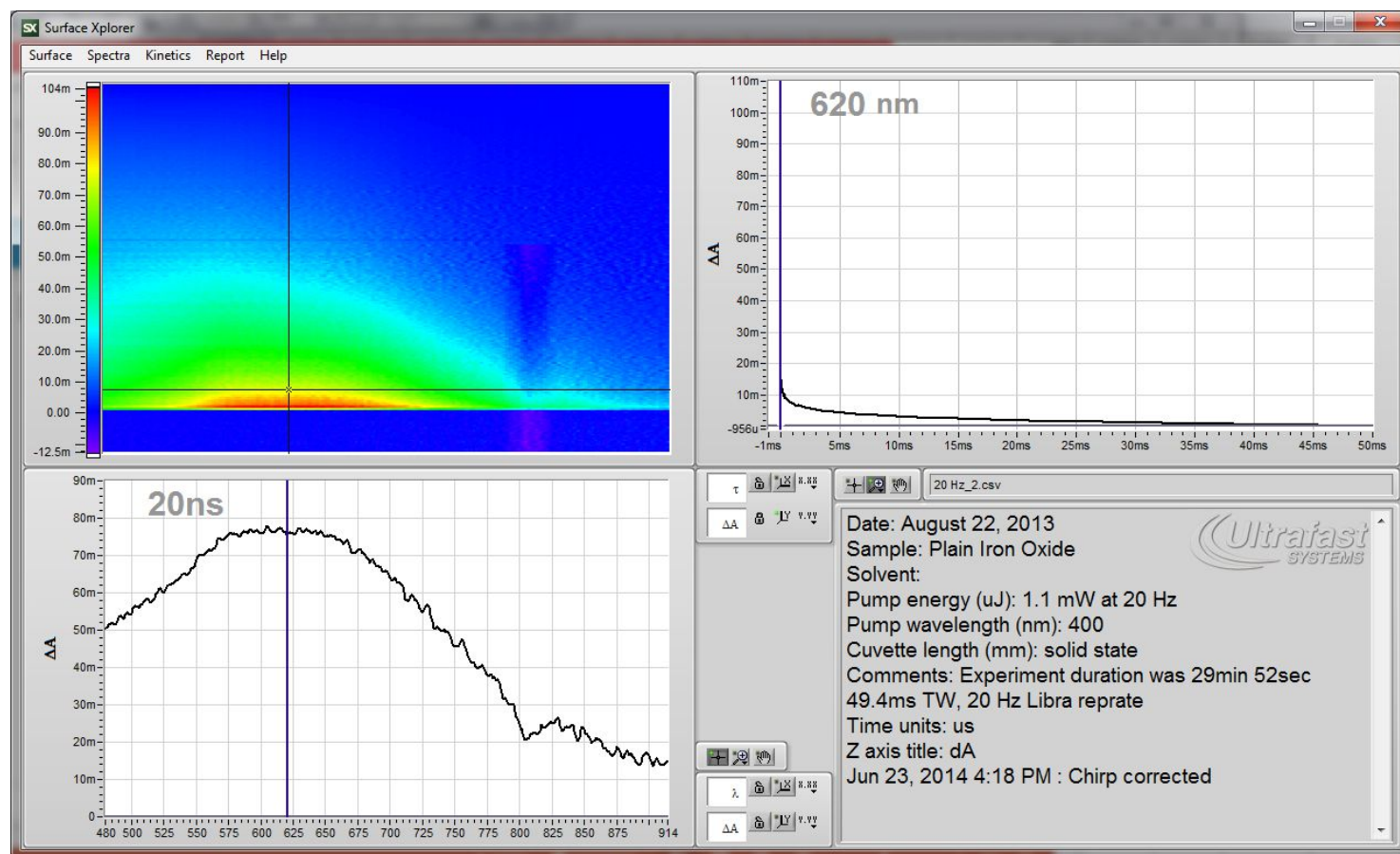
DATA EXAMPLE



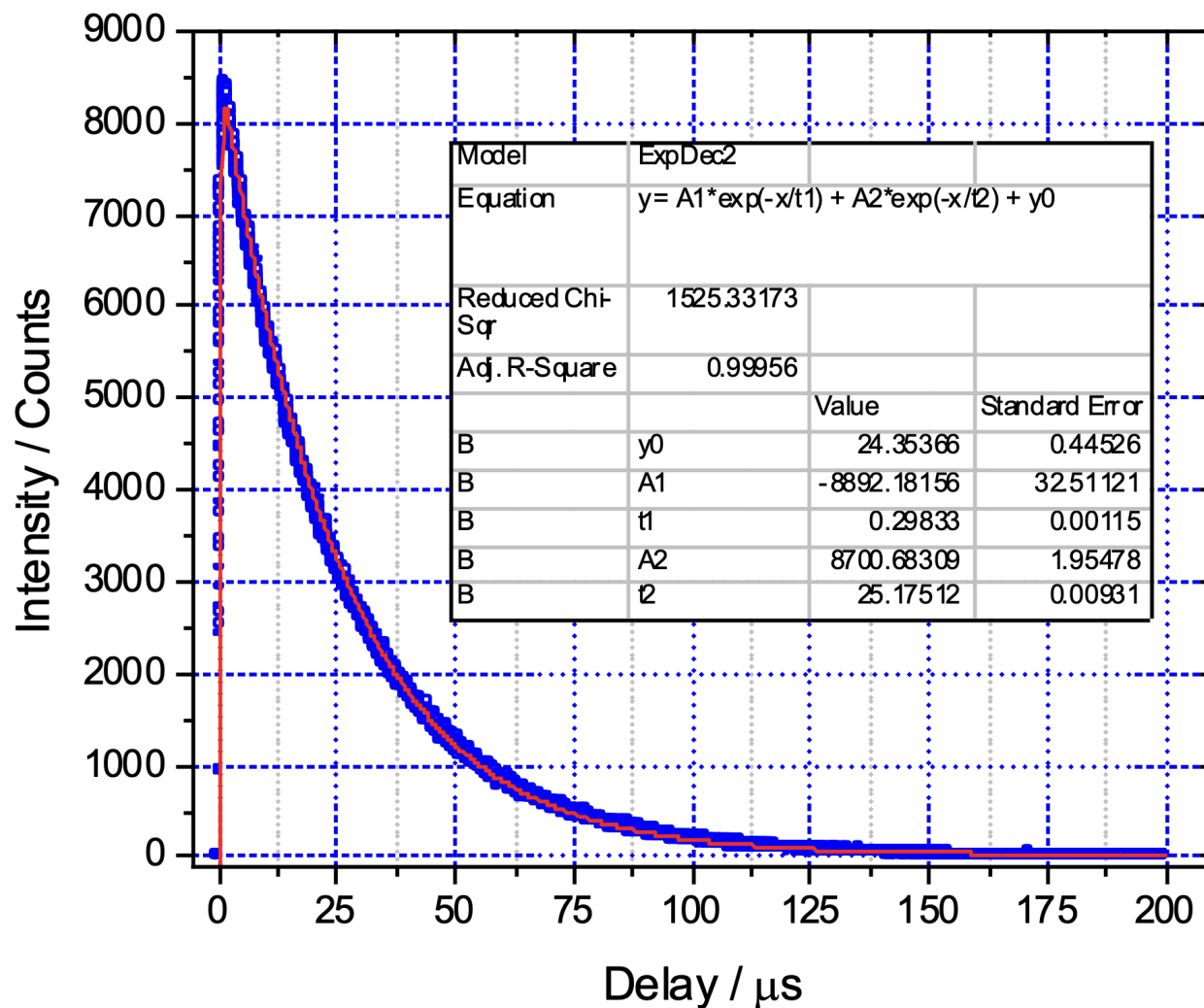
Experiment Details

- Sample: ZnTPP with oxygen in Toluene
- Laser / OPA: Libra (Coherent) @ 1 kHz / Harmonics Generator
- Pump energy (uJ): 1
- Pump wavelength (nm): 400
- Cuvette length (mm): 2
- Step size: 12.8 ns
- Detector: NIR PMT (950-1700 nm)
- Experiment time: ~5 min
- Emission wavelength: ~1270 nm
- Multichannel scaling (MCS) mode: compatible with low repetition rate excitation light sources

Emission Kinetic of Singlet O₂



Early Time Kinetic of Singlet O₂



Dynamic Surface of Iron Oxide Logarithmic Timescale

