

# SppKTP

Raicol SppKTP is a specialized nonlinear crystal designed for high-power applications.

## Key Features:

- Power Handling: support up to 6 times the power levels of standard PPKTP
- Low Absorption: x 5 times less GRIIRA

## Applications:

- Squeezed Light
- QKD

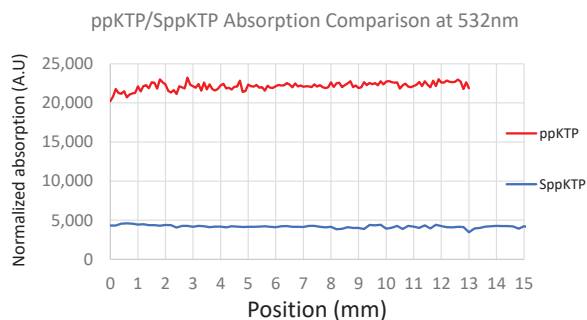
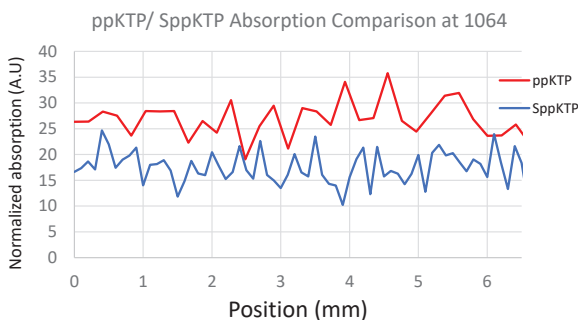
## SppKTP characterization

Absorption measurements scan across the crystal width and GRIIRA (Green Induced Infrared Absorption) test using Common Path Interferometer showed the following results:

Type	Absorption ppm / cm		
	Scan (A.U)		GRIIRA
	1064 nm	532 nm	
KTP	27	22,000	25
SKTP	17	4200	5

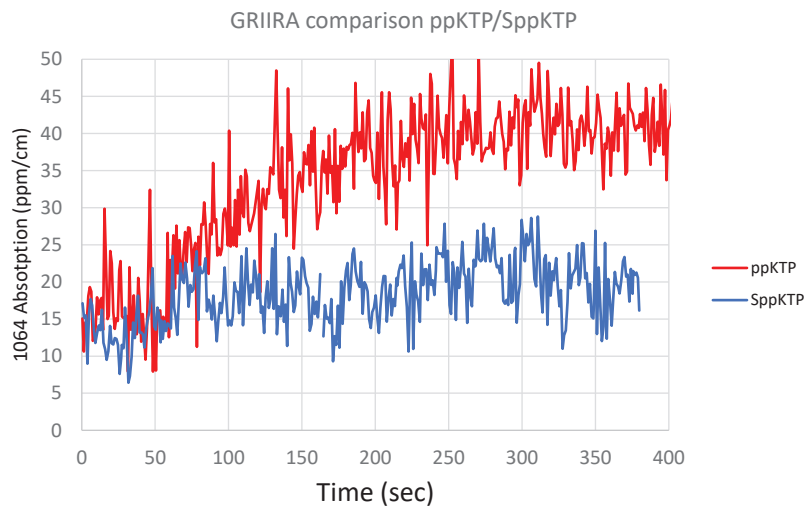
## Absorption measurements

Scan to the Length of the crystal (at 1064 nm and 532 nm).



## GRIIRA measurements

The test measurements absorption at 1064nm over time with induced 532nm as the following profile: Starting with 60 sec of the 1064nm at 15KW/cm<sup>2</sup> and then adding the 532nm at 8KW/cm<sup>2</sup> with the 1064nm at 15KW/cm<sup>2</sup>.



With its remarkable power handling capabilities and low optical absorption, Raicol SppKTP opens up new possibilities for cutting-edge research and industrial applications in the realm of high-power nonlinear optics.