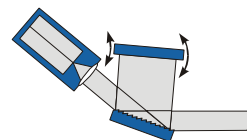
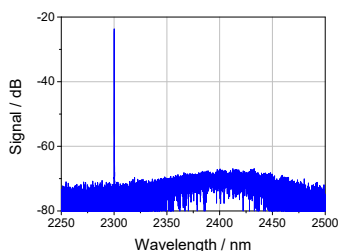


Lion Series: TEC-500-2400-003



Description:

The TEC-500-2400-003 is an External Cavity Diode Laser in Littman Configuration. It is designed for applications which require high mode-hop free tuning range, high output power and low linewidth like for molecule and trace gas detection as well as telecommunication.

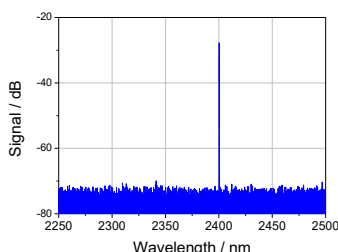


Wavelength

Lower Border of the Tuning Range

Wavelength: < 2300nm

Power: 2mW

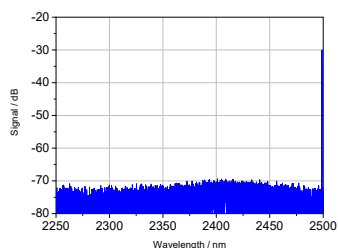


Wavelength

Gain Maximum

Wavelength: 2400nm

Power: >3mW



Wavelength

Upper Border of the Tuning Range

Wavelength: > 2500nm

Power: 2mW

Specification:

output power	>2mW, typ. >3mW at gain maximum
beam profile	almost round
polarization	linearly, typ. > 100:1
linewidth (1ms)	< 100kHz
linewidth (1s)	< 1MHz (typ.)
side mode suppression	> 40dB, typ. > 45dB
coarse tuning range	> 150nm
piezo fine tuning rate	> 0.4GHz/V
piezo fine tuning range @ 27V (100V)	> 10GHz (40GHz)
mechanic cavity resonance	> 1.7 kHz
thermal stability	< 100 MHz/°C

Document: <http://docs.sacher-laser.com/s5-2400-I.pdf>

Note: Specification are subject to change without further notice.

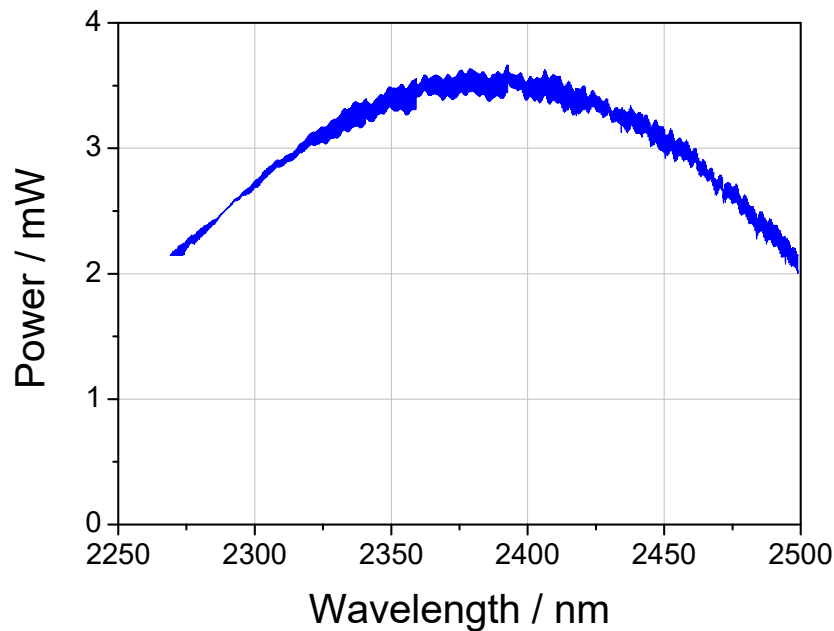
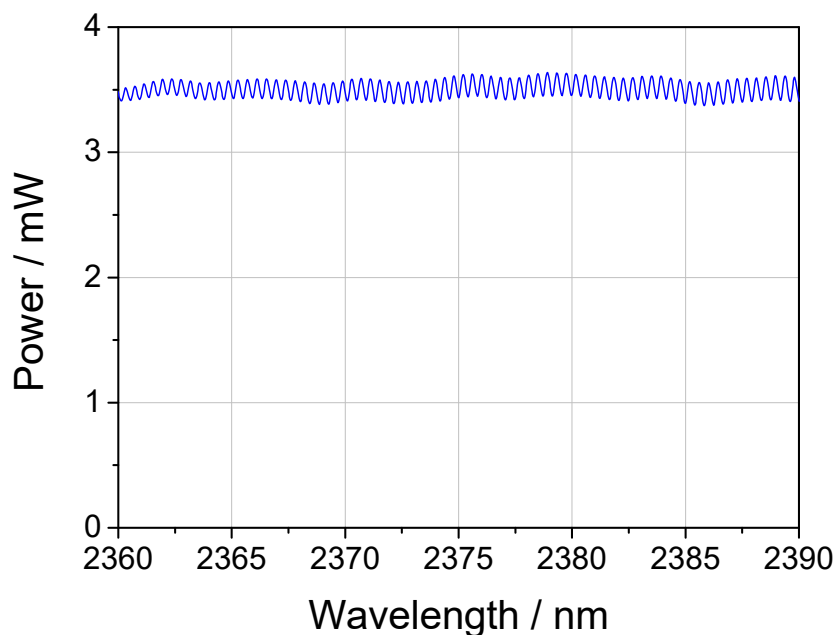
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Email: sales@sacher-laser.com



Mode-Hop Free Tuning:**Mode Hop-Free Fine Tuning:****Motorized Version (option at additional costs):**

10s of Nanometers of mode-hop free tuning due to patented cavity design,
c/f <http://docs.sacher-laser.com/pivotpoint.pdf>, page 12 .. 15

Document: <http://docs.sacher-laser.com/s5-2400-I.pdf>

Note: Specification are subject to change without further notice.

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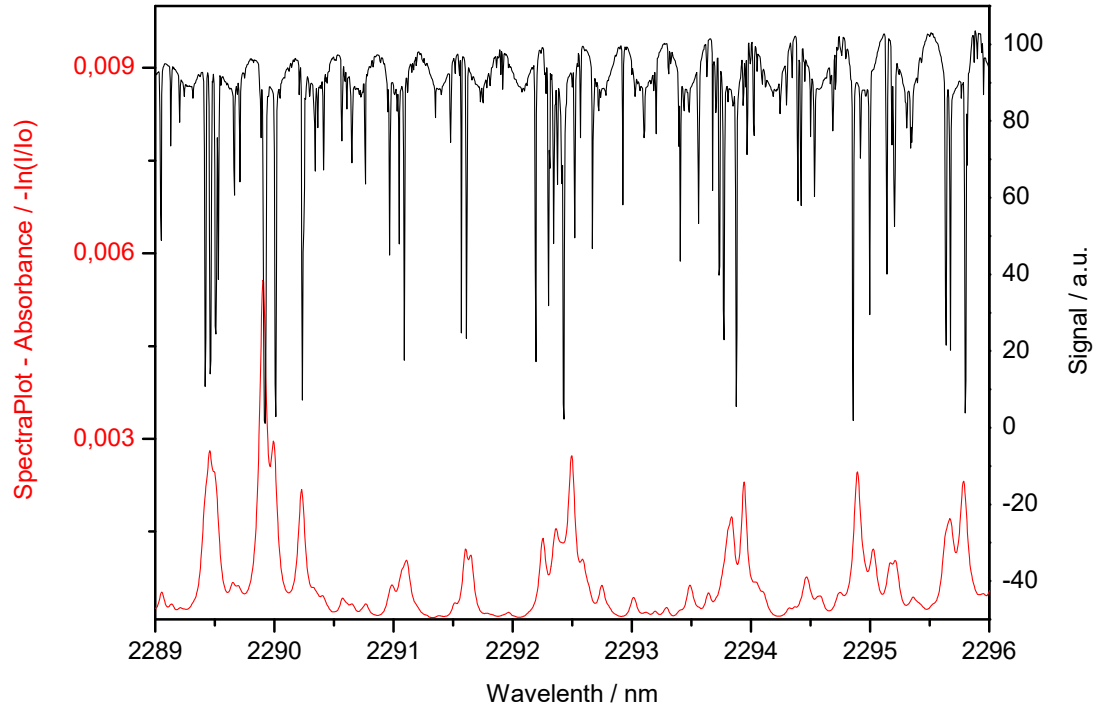
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Methane Absorption:



Wavelength Tuning Curve with Methane Absorption

Document: <http://docs.sacher-laser.com/s5-2400-I.pdf>
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