

Laser Delivery Report



INVISIBLE
LASER RADIATION
AVOID EXPOSURE TO BEAM
CLASS 3B LASER PRODUCT
IEC 60825-1:2014

Po= max.	7 mW
Pp= max.	1000 mW
t=max.	500 ps
f=max.	80 MHz
λ=	400 nm

Laser Head:

Model No. LDH-P-C-405
Serial No.: 1046003

- Optics:**
- Collimator
 - Fibre Coupler, FC Connector
 - Fibre Coupler, SMA Connector
 - Single Mode Fibre
 - polarisation maintaining
 - Multi Mode Fibre
 - Fibre Collimator

Wavelength: 397 nm - 402 nm

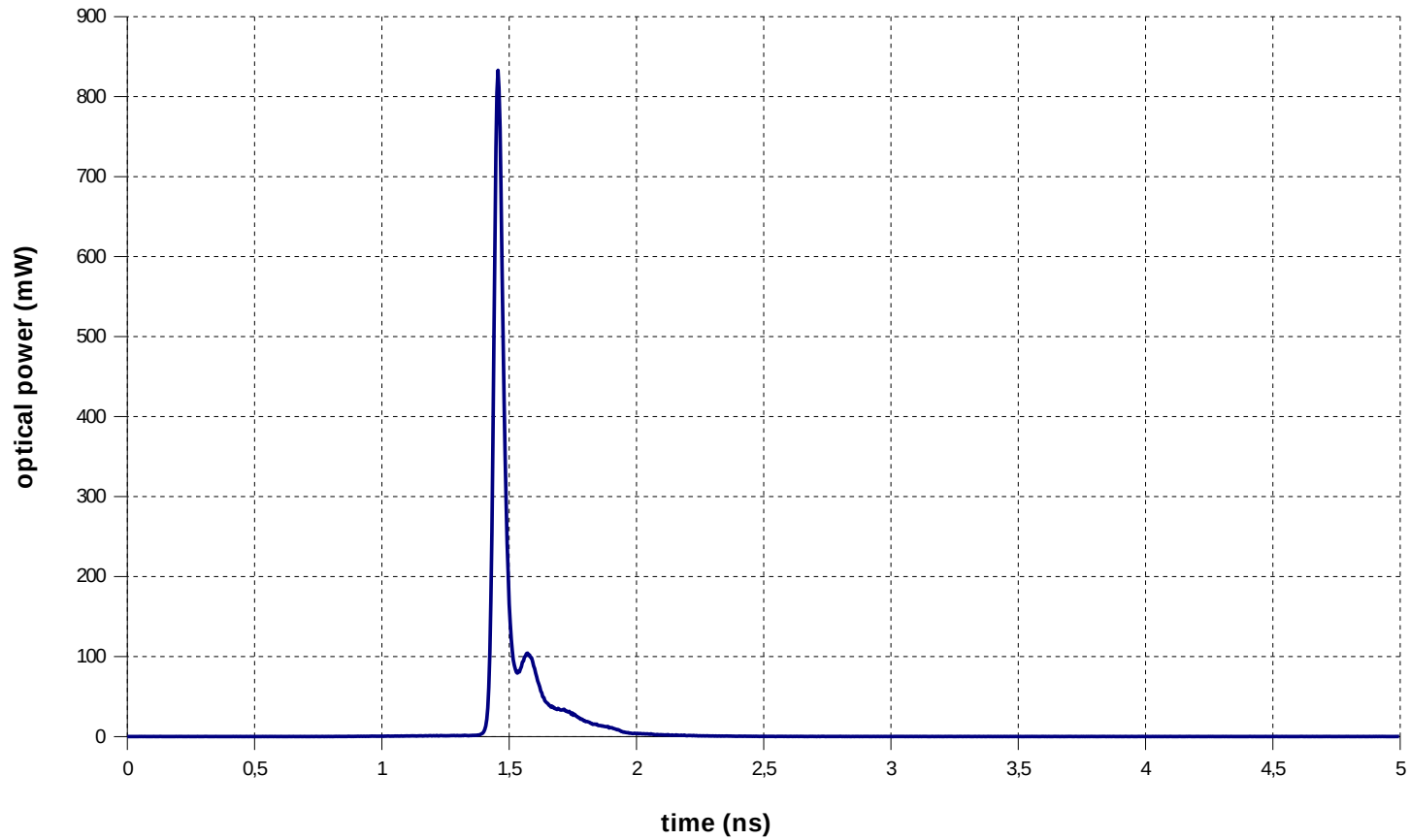
Average Optical Power:

Repetition frequency	Max. optical power (10% calibr. error)
80 MHz	4,3 mW
40 MHz	2,1 mW
20 MHz	0,90 mW
10 MHz	0,38 mW
5,0 MHz	0,16 mW
2,5 MHz	0,10 mW

Note:
Output power is measured at shipping time at the collimator's aperture. At the end of an optional fibre you will measure lower values, due to coupling losses. The coupling efficiency is different for each laser head. Typical values are 40% for single mode and 80 % for multi mode fibres. After hundreds of operating hours the maximum output power may begin to decrease.

Minimum Pulse Width: 40 ps

For more data of the optical pulses see diagrams on the next pages.
Note that all timing responses are convoluted with the Instrument Response Function (IRF) of the detection system as indicated in the curve plot. This means that the laser pulses are actually narrower than they appear here.



Laser Head: 1046003

wavelength: 402 nm

peak power 833 mW

average power 4,7 mW

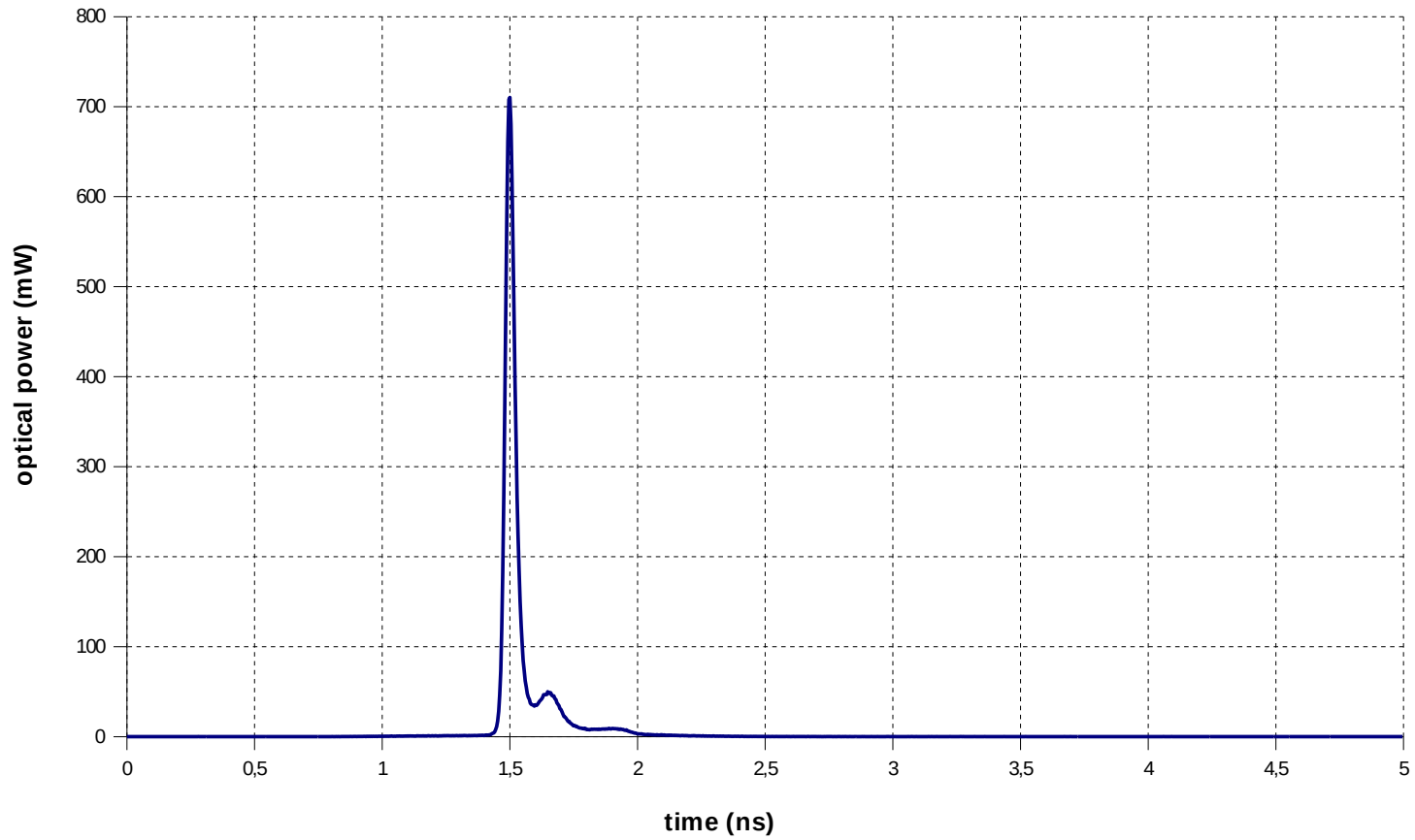
pulse energy: 59 pJ

@ rep. frequency 80 MHz

FWHM: 44 ps

PicoQuant GmbH 2022

IRF: 30 ps



Laser Head: 1046003

wavelength: 402 nm

peak power 710 mW

average power 3,5 mW

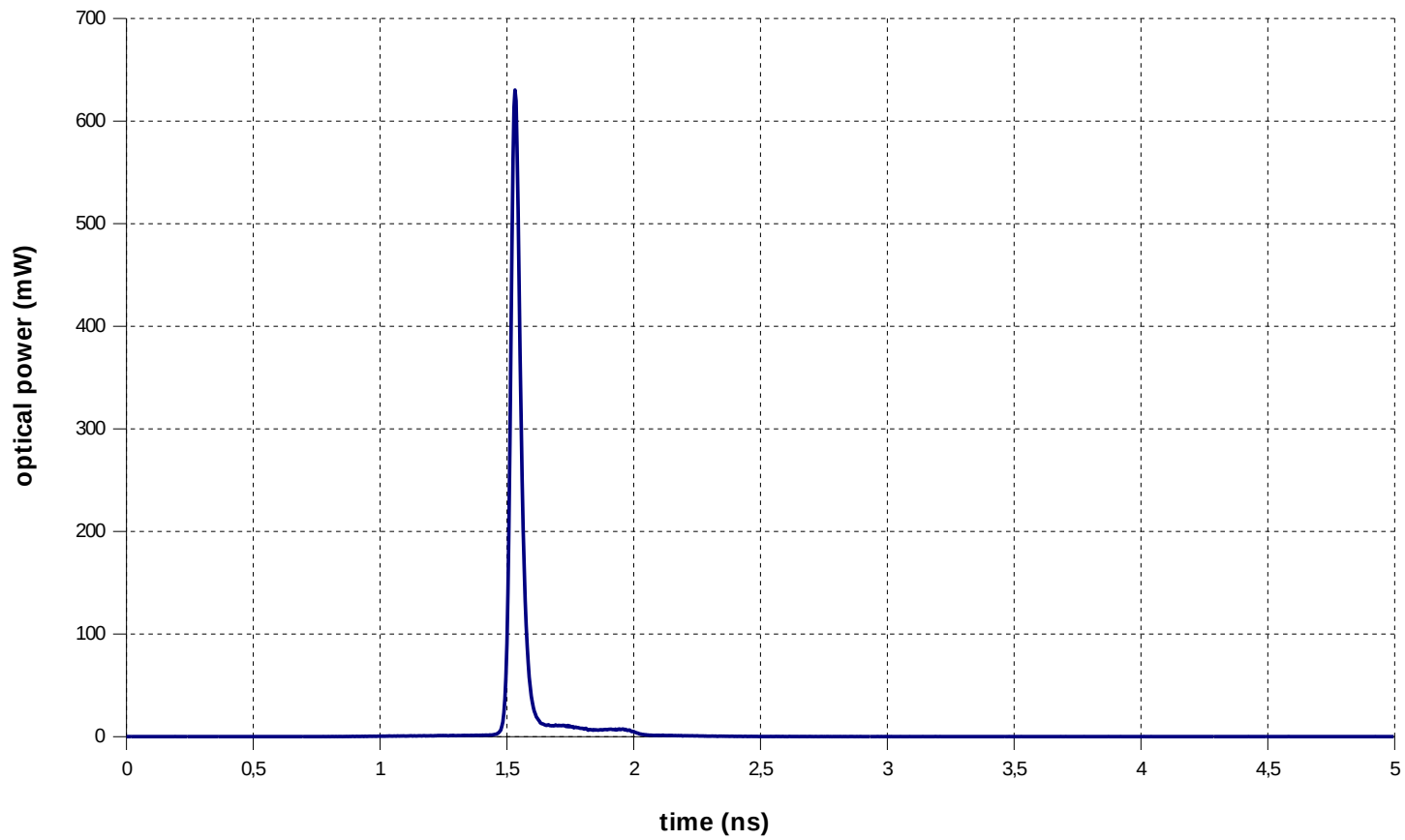
pulse energy: 44 pJ

@ rep. frequency 80 MHz

FWHM: 44 ps

PicoQuant GmbH 2022

IRF: 30 ps



Laser Head: 1046003

wavelength: 397 nm

peak power 630 mW

average power 2,8 mW

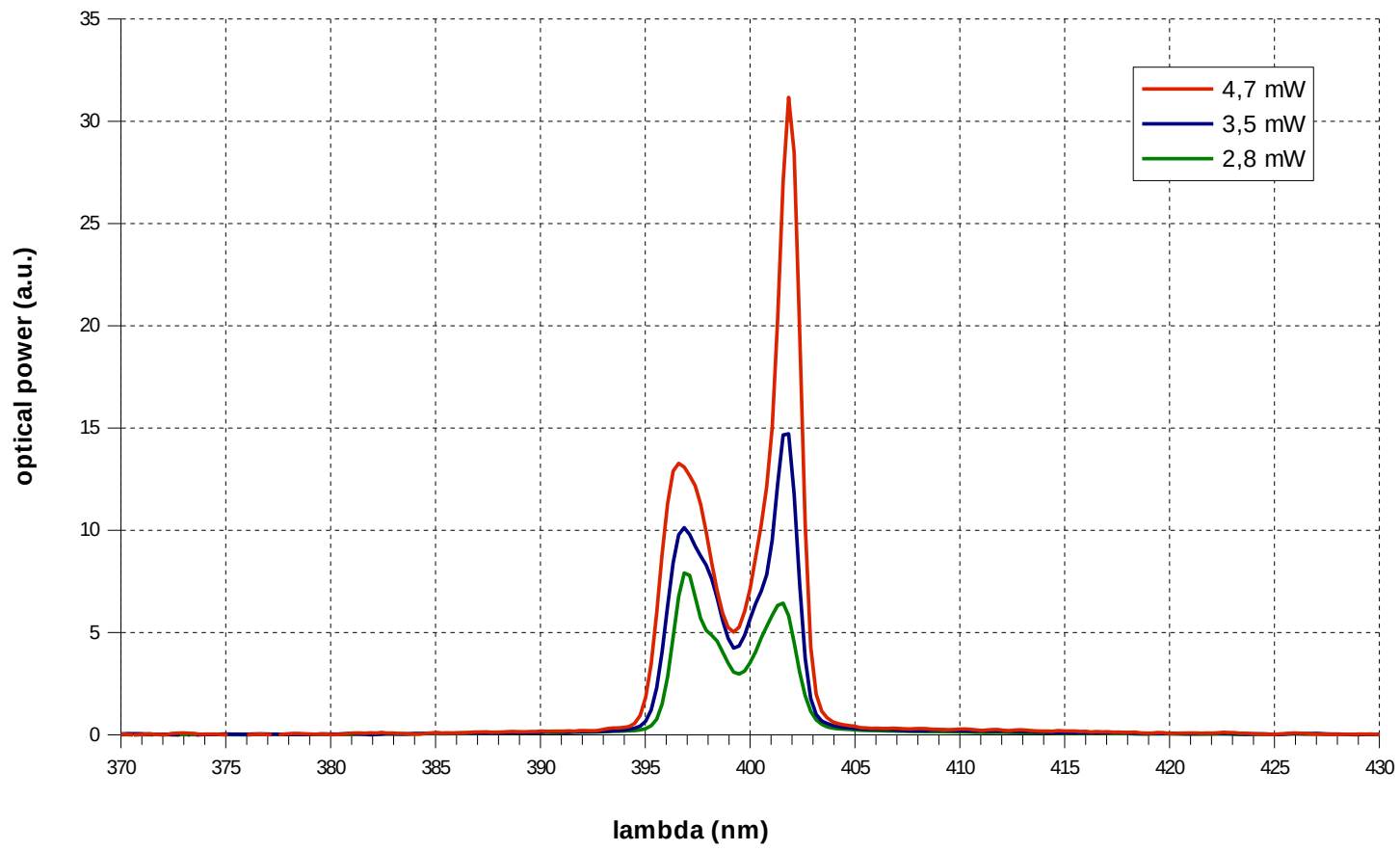
pulse energy: 35 pJ

@ rep. frequency 80 MHz

FWHM: 40 ps

PicoQuant GmbH 2022

IRF: 30 ps



Laser Head: 1046003

avg. wavelength: 400,2 nm

min. spectral width: 1,3 nm

max. spectral width: 6,0 nm