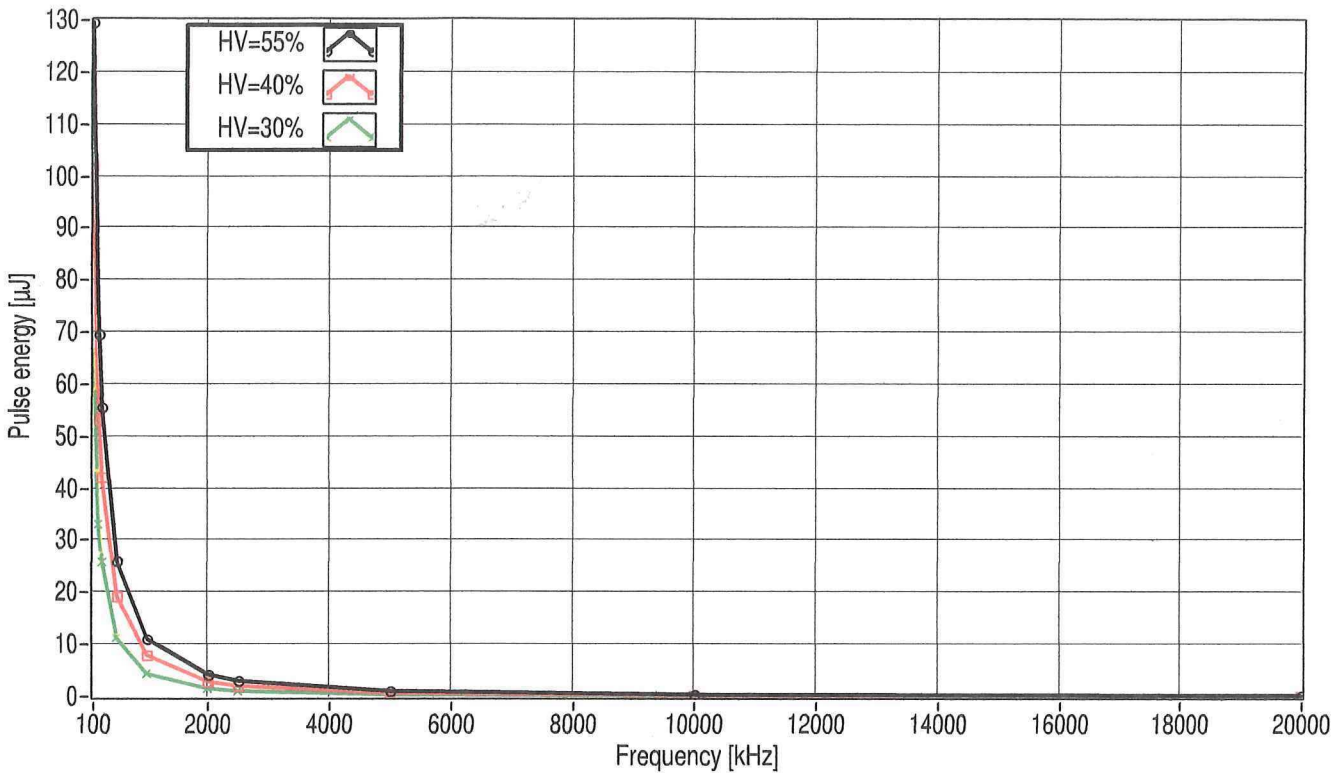
Pulse energy vs. frequency

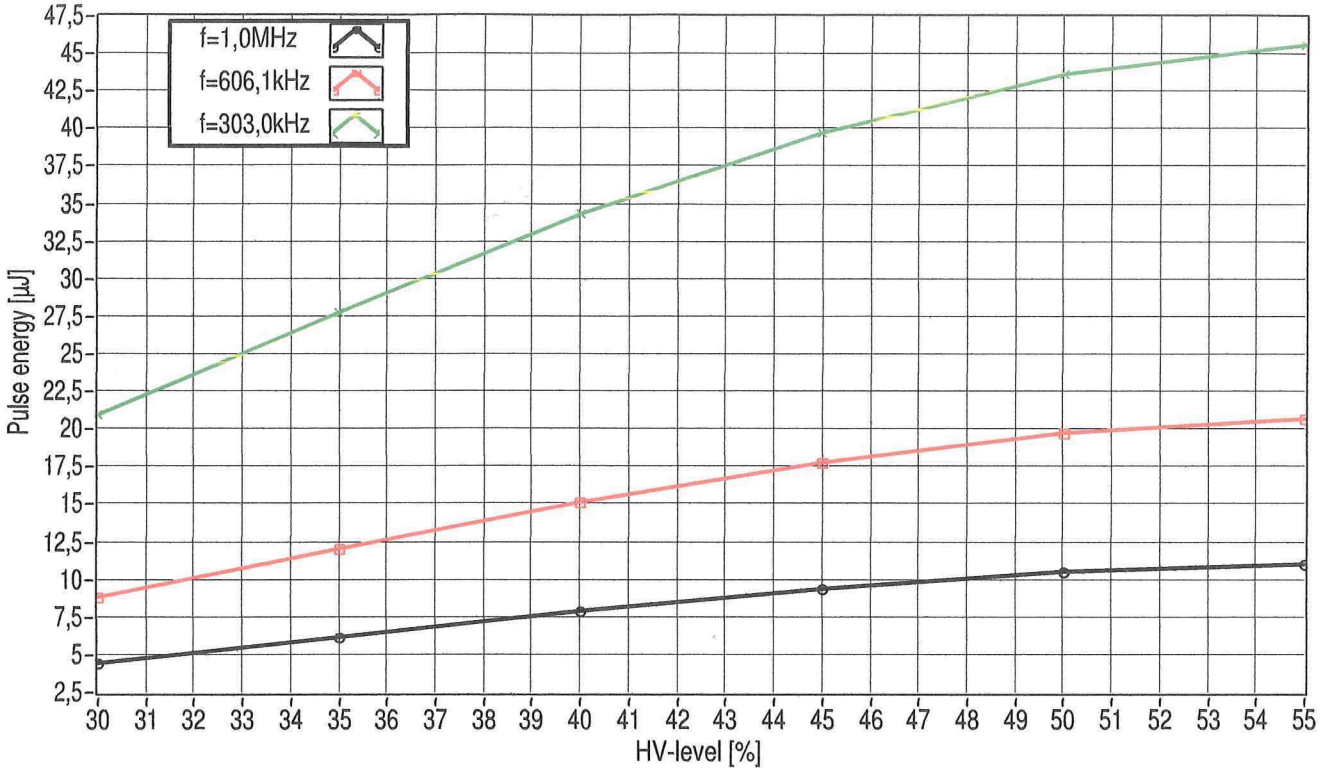


HV-level	100,0kHz	200,0kHz	250,0kHz	500,0kHz	1,0MHz	2,0MHz	2,5MHz	5,0MHz	10,0MHz	20,0MHz
HV=55%	129,47 µJ	69,48 µJ	55,47 µJ	25,97 µJ	10,99 µJ	4,13 µJ	2,96 µJ	0,97 µJ	0,29 µJ	0,09 µJ
HV=40%	102,08 µJ	53,14 µJ	42,11 µJ	19,20 µJ	7,91 µJ	2,87 µJ	2,03 µJ	0,65 µJ	0,19 µJ	0,06 µJ
HV=30%	66,28 µJ	33,09 µJ	25,83 µJ	11,24 µJ	4,34 µJ	1,49 µJ	1,04 µJ	0,32 µJ	0,09 µJ	0,03 µJ

Max. currents at different frequencies

Frequency range	SFD	I1max	I2max
20000 - 200kHz	1 - 100	2,9 A	43 A
198 - 133kHz	101 - 150	2,9 A	43 A
132 - 100kHz	151 - 200	2,9 A	43 A

Pulse energy vs. HV-level



Frequency	30%	35%	40%	45%	50%	55%
f=1,0MHz	4,4 µJ	6,1 µJ	7,9 µJ	9,4 µJ	10,5 µJ	11,0 µJ
f=606,1kHz	8,8 µJ	12,0 µJ	15,1 µJ	17,8 µJ	19,7 µJ	20,7 µJ
f=303,0kHz	20,9 µJ	27,7 µJ	34,3 µJ	39,7 µJ	43,6 µJ	45,6 µJ

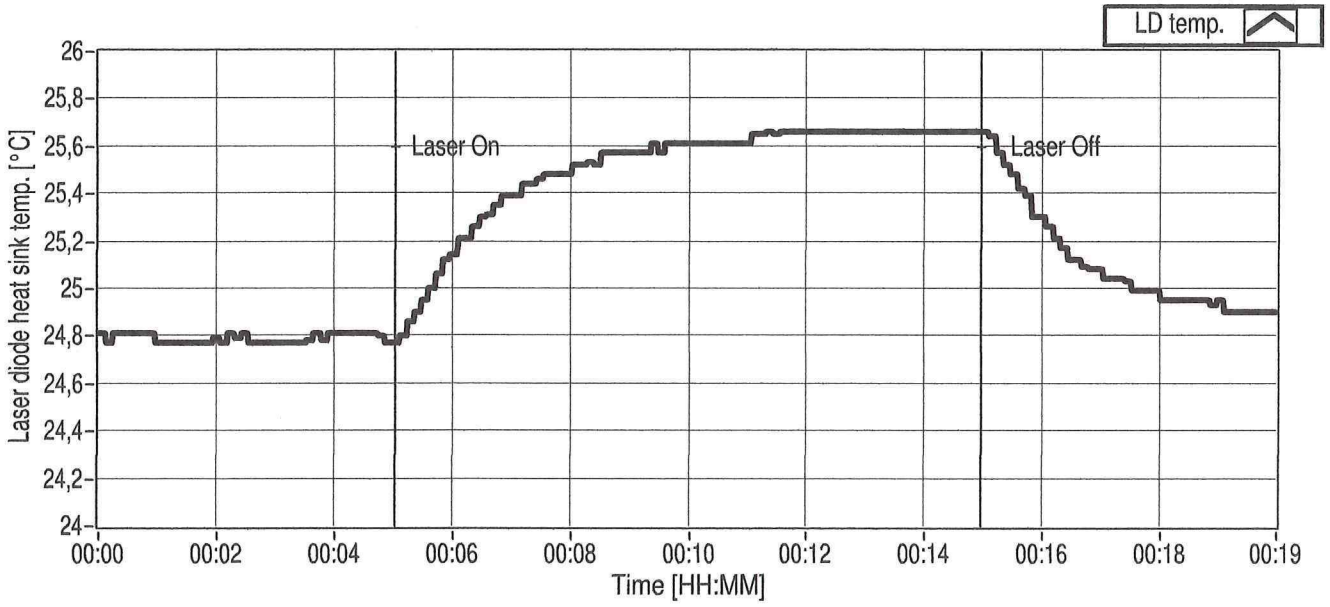
Max. currents at different burst frequencies

Frequency range	SFD	I1max	I2max
20000 - 200kHz	1 - 100	2,9 A	43 A
198 - 133kHz	101 - 150	2,9 A	43 A
132 - 100kHz	151 - 200	2,9 A	43 A

Laser diode heat sink temp.

Laser SN:	0702	Seeder freq.:	20,2MHz	Water temp.:	25°C	I1max(seeder):	2,9A
Wavelength:	532nm	Max. freq.:	20,2MHz	Water flow:	___	Max. Current2:	43A
P. on time:	291 h	Min. freq.:	101,2kHz	Oven temp.:	40,4°C	I1min(seeder):	2,9A

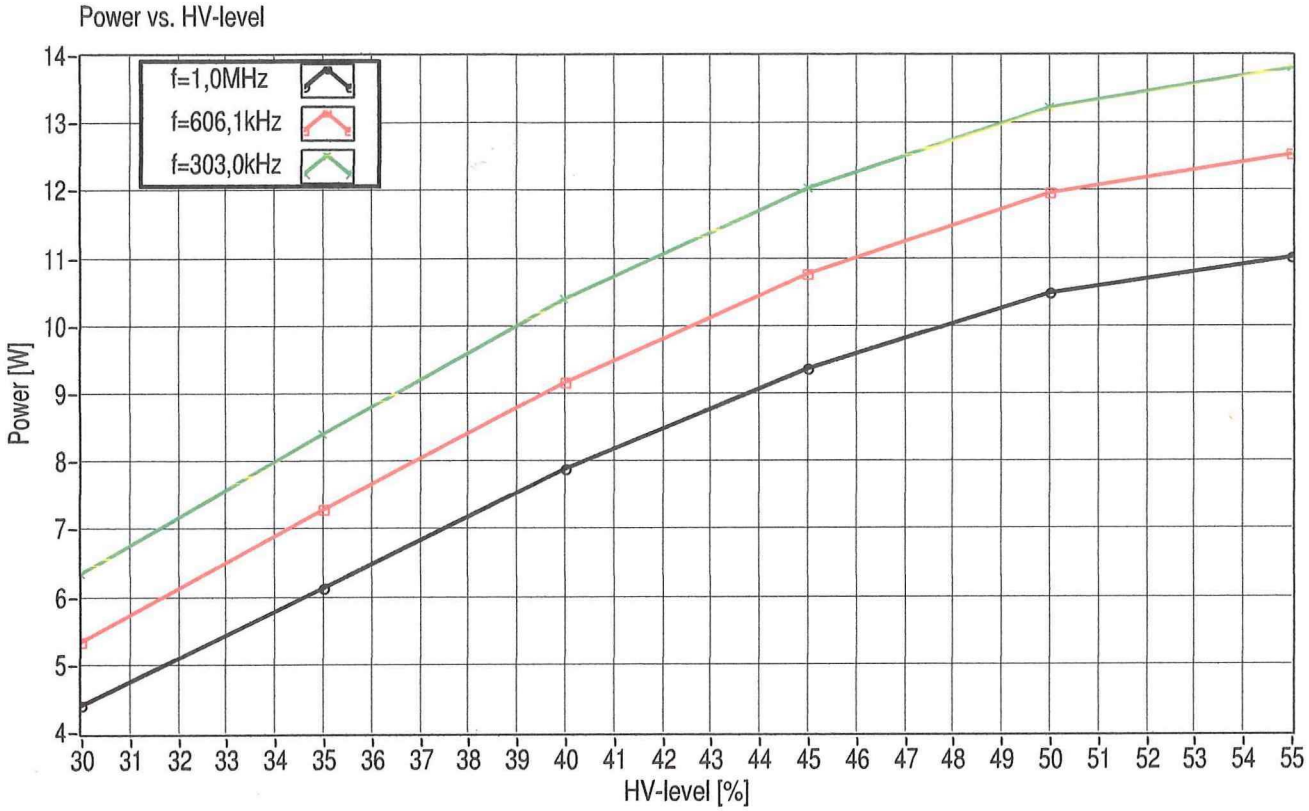
Reference temperature of laser diode heat sink
Chiller setpoint: 25°C
Current setpoint: Imax



Laser – Power sheet

edgewave

Laser SN:	0702	Seeder freq.:	20,2MHz	Water temp.:	25°C	I1max(seeder):	2,9A
Wavelength:	532nm	Max. freq.:	20,2MHz	Water flow:	___	I1min(seeder):	2,9A
P. on time:	290 h	Min. freq.:	101,2kHz	Oven temp.:	40,4°C	I2max(amp.):	43A



Frequency	30%	35%	40%	45%	50%	55%
f=1,0MHz	4,4 W	6,1 W	7,9 W	9,4 W	10,5 W	11,0 W
f=606,1kHz	5,3 W	7,3 W	9,2 W	10,8 W	12,0 W	12,5 W
f=303,0kHz	6,3 W	8,4 W	10,4 W	12,0 W	13,2 W	13,8 W

Max. currents at different burst frequencies

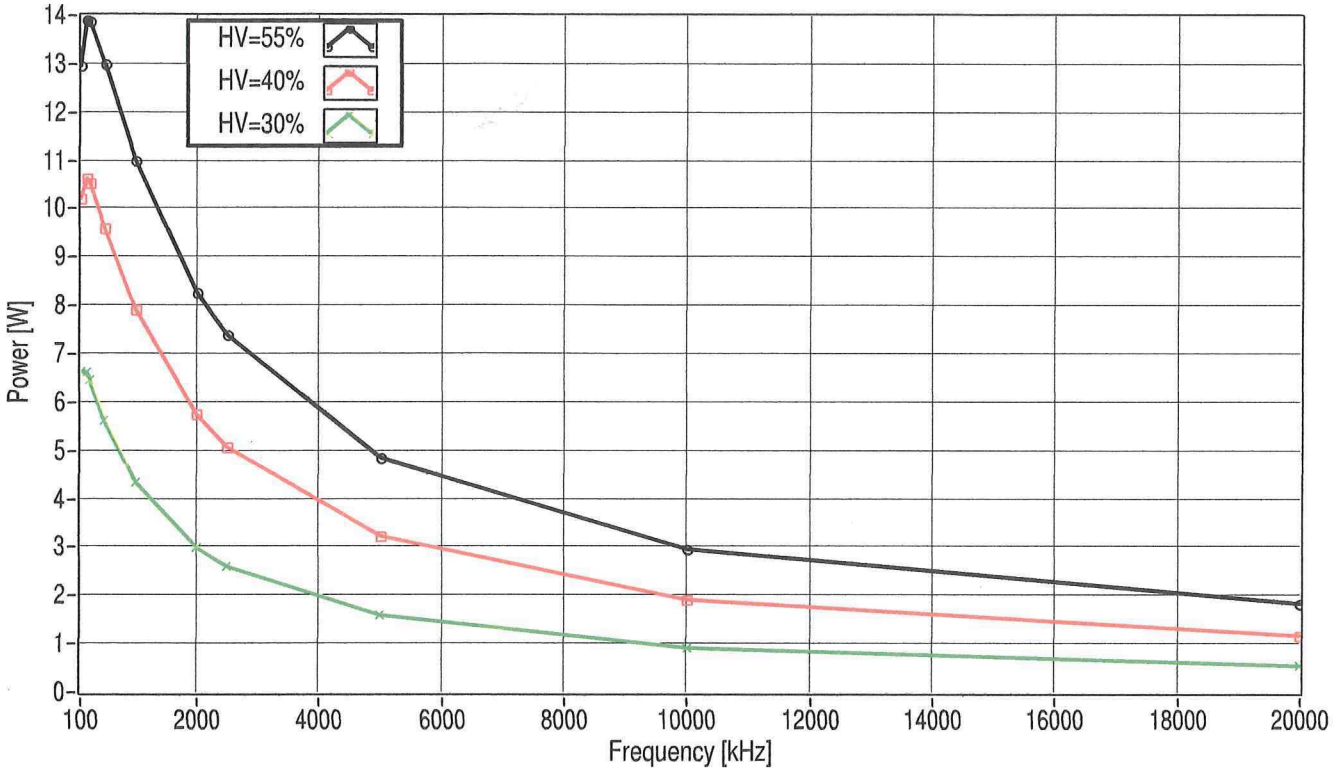
Frequency range	SFD	I1max	I2max
20000 - 200kHz	1 - 100	2,9 A	43 A
198 - 133kHz	101 - 150	2,9 A	43 A
132 - 100kHz	151 - 200	2,9 A	43 A

Laser – Power sheet

edgewave

Laser SN:	0702	Seeder freq.:	20,2MHz	Water temp.:	25°C	I1max(seeder):	2,9A
Wavelength:	532nm	Max. freq.:	20,2MHz	Water flow:	___	I1min(seeder):	2,9A
P. on time:	291 h	Min. freq.:	101,2kHz	Oven temp.:	40,4°C	I2max(amp.):	43A

Power vs. frequency



HV-level	100,0kHz	200,0kHz	250,0kHz	500,0kHz	1,0MHz	2,0MHz	2,5MHz	5,0MHz	10,0MHz	20,0MHz
HV=55%	12,95 W	13,90 W	13,87 W	12,99 W	10,99 W	8,26 W	7,39 W	4,84 W	2,95 W	1,82 W
HV=40%	10,21 W	10,63 W	10,53 W	9,60 W	7,91 W	5,75 W	5,07 W	3,23 W	1,91 W	1,16 W
HV=30%	6,63 W	6,62 W	6,46 W	5,62 W	4,34 W	2,99 W	2,60 W	1,59 W	0,91 W	0,54 W

Max. currents at different frequencies

Frequency range	SFD	I1max	I2max
20000 - 200kHz	1 - 100	2,9 A	43 A
198 - 133kHz	101 - 150	2,9 A	43 A
132 - 100kHz	151 - 200	2,9 A	43 A