

Figure 2: Output power as a function of the singlemode emission frequencies and temperatures

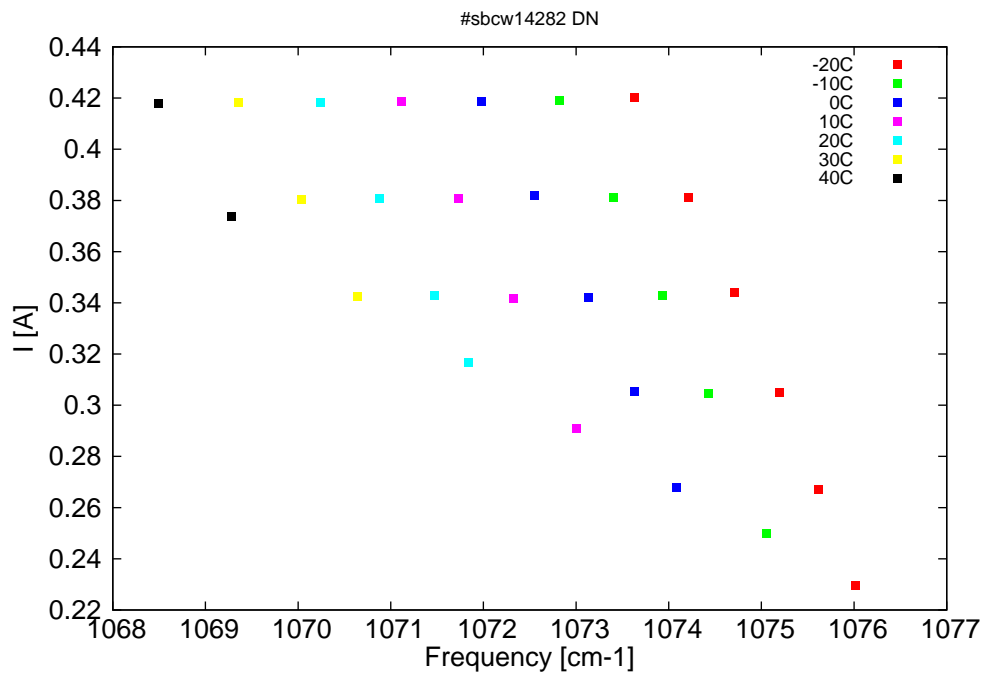


Figure 3: Applied DC current as a function of singlemode emission frequencies and temperatures

λ [nm]	ν [cm ⁻¹]	P[mW]	Temp[°C]	U_{LASER} [V]	I[A]
9293.5	1076	1.1	-20	9.6	0.23
9297	1075.6	13.4	-20	9.9	0.27
9300.6	1075.2	25.1	-20	10.3	0.3
9304.8	1074.7	36.8	-20	10.6	0.34
9309.1	1074.2	46	-20	10.9	0.38
9314.2	1073.6	53.9	-20	11.2	0.42
9301.8	1075.1	0.9	-10	9.7	0.25
9307.3	1074.4	18.1	-10	10.1	0.3
9311.5	1073.9	28.5	-10	10.5	0.34
9316.2	1073.4	37.6	-10	10.8	0.38
9321.2	1072.8	45.2	-10	11.1	0.42
9310.3	1074.1	1.1	0	9.7	0.27
9314.2	1073.6	11.2	0	10.1	0.31
9318.5	1073.1	20.8	0	10.4	0.34
9323.5	1072.6	30.2	0	10.7	0.38
9328.5	1072	37.2	0	11	0.42
9319.6	1073	1	10	9.9	0.29
9325.6	1072.3	13.8	10	10.3	0.34
9330.7	1071.7	22.4	10	10.6	0.38
9336.1	1071.1	29.3	10	11	0.42
9329.7	1071.8	1.1	20	10	0.32
9332.9	1071.5	7.3	20	10.2	0.34
9338.1	1070.9	15.2	20	10.6	0.38
9343.6	1070.2	22	20	10.9	0.42
9340.2	1070.6	0.6	30	10.2	0.34
9345.5	1070	8.2	30	10.5	0.38
9351.4	1069.4	14.9	30	10.8	0.42
9352	1069.3	0.8	40	10.4	0.37
9359	1068.5	8	40	10.8	0.42

Table 1: Singlemode optical output power as function of operating parameters.

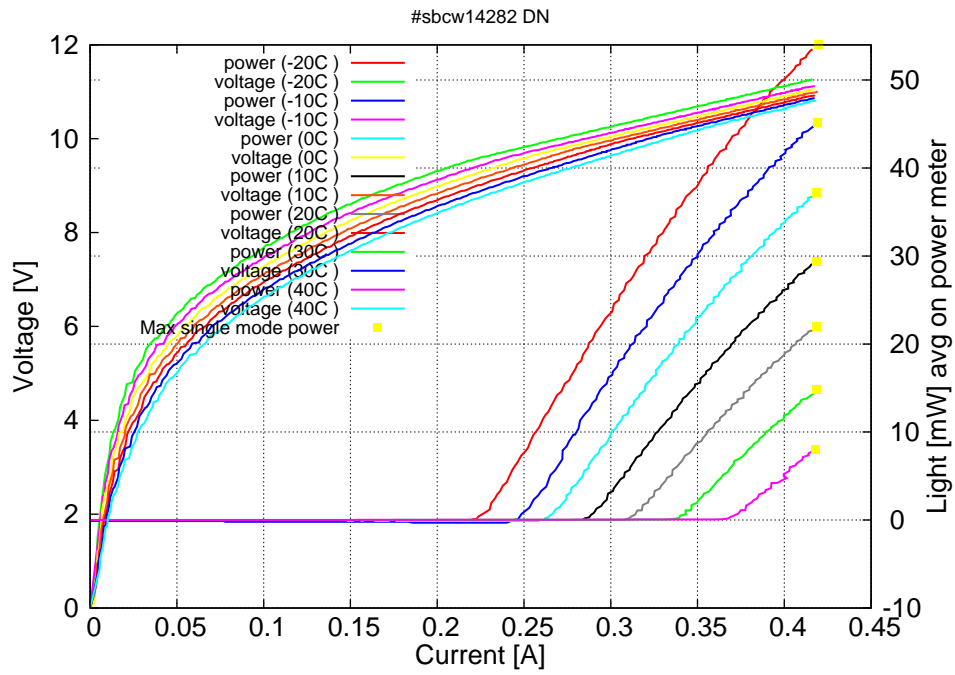


Figure 4: voltage and avg power vs current in continuous-wave operation (the solid squares indicate the maximum singlemode emitted power)

Note: at -20C: $I_{th}=0.23A$ / $V_{th}=9.5V$ (2-wires measurements). Maximum operation current: 0.420A for all temperatures.

Figure 3: spectra at different temperatures for various DC currents

