

RF EXPOSURE ANALYSIS

EQUIPMENT

Type of equipment: Random Orbital Sander
Type / Model: Deros 650X
Manufacturer: KWH Mirka OY AB
By request of: KWH Mirka OY AB

Operating frequencies: 2402 – 2480 MHz

REQUIREMENT

CFR 47 §1.1310
RSS-102 issue 5 (2015)

CALCULATIONS

Highest measured peak conducted output power is 0.0 dBm peak or 1 mW.

Reference report: Intertek Semko AB test report 1620866STO-001.

LIMITS & EVALUATIONS:

Standard	Reference for limit	Limit	Unit	Values	Result
CFR 47 §1.1310	KDB 447498 D01 ¹	3	N/A	0.3	PASS
RSS-102 issue 5 (2015)	RSS-102 issue 5 (2015) ²	4	mW	1	PASS

Table 1

¹1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by: $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$. Test separation distance is taken as 5 mm and maximum power is 1 mW at 2.480 GHz.

²Section 2.5.1, table 1, based on a separation distance of 5 mm and frequency of 2450 MHz.

Summary:

All requirements are fulfilled

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