

RF EXPOSURE ANALYSIS

1. EQUIPMENT

Type of equipment:	Sports Watch with Bluetooth
Brand name:	Suunto
Type / Model:	OW151
Marketing names:	Suunto Traverse (tested unit) and Suunto World Collection Kailash
Manufacturer:	Suunto Oy
By request of:	Suunto Oy Valimotie 7 FI-01510 Vantaa FINLAND

Operating range: 2402 – 2480 MHz

REQUIREMENT

EN 62479:2010
CFR 47 §1.1310
RSS-102 issue 5 (2015)
Radiocommunications (Electromagnetic Radiation — Human Exposure) Standard 2014
NZS 2772.1:1999

CALCULATIONS

Highest output power to antenna is -1.2 dBm.
With -4.0 dBi antenna gain; EIRP is -5.2 dBm or 0.301 mW.

LIMITS & EVALUATIONS:

Standard	Reference for limit	Limit	Unit	Values	Result
EN 62479	EN 62479 ¹	40	mW	0.301	PASS
CFR 47 §1.1310	KDB 447498 D01 ²	7.5	N/A	0.095	PASS
RSS-102 issue 5 (2015)	RSS-102 issue 5 (2015) ³	4	mW	0.301	PASS
Radiocommunications (Electromagnetic Radiation — Human Exposure) Standard 2014	EN 62479 ¹	40	mW	0.301	PASS
NZS 2772.1	NZS 2772.1 ⁴	20	mW	0.301	PASS

¹From Table A.1 for general public and limbs exposure.

²1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by: $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 7.5$. Test separation distance is taken as 5 mm and maximum power is 0.301 mW.

³Section 2.5.1, based on a separation distance of 5 mm and frequency of 2450 MHz.

⁴Section 8.6.3.2 says: The evaluation of mobile or portable transmitting equipment for compliance with this standard is not required where the nominal mean power output delivered to the antenna does not exceed 20 mW.

Summary:

All requirements are fulfilled

Date of issue: 2015-10-09



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