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***RF exposure analysis for the equipment with FCC ID: RYP23991***

**1. Introduction**

The device **OW161** (FCC ID: **RYP23991**) is designed to be used in portable exposure conditions. It contains a 2.4GHz radio which operates in Bluetooth Low Energy mode (2402-2480 MHz frequency band) and is intended for use within 20 cm of humans.

**2. SAR limits**

According to § 2.1093 (d) (2) the limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and peak spatial-average SAR limit is 1.6 W/kg, averaged over any 1 gram of tissue over the whole body.

**3. Compliance criteria:**

Individual transmitters are needed to comply with § 2.1093 requirements if the output power of the transmitter meets the conditions specified in section 4.3.1 (Standalone SAR test exclusion) considerations of the document "KDB 447498 D01 Clause 4.3.1 General RF Exposure Guidance v06".

**4. Compliance calculations:**

Mode	Frequency (GHz)	Peak output power (dBm)	Peak output power (mW)	Evaluation distance per KDB 447498 D01 General RF Exposure Guidance v05r02 - 4.3.1 (mm)	$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\text{Vf(GHz)}]$	SAR Test Exclusion Thresholds per KDB 447498 D01 General RF Exposure Guidance v05r02 - 4.3.1 - 1)	
BLE	2,402	-2,69	0,5383	5	0,1668463	≤ 3	COMPLIANT
	2,440	-0,23	0,9484	5	0,2962954	≤ 3	COMPLIANT
	2,480	-2,06	0,6223	5	0,1959999	≤ 3	COMPLIANT

Sincerely,

P.A.  


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