

Produkte
 Products

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Test item: SPEED CADENCE SENSOR

Identification: ISC-12

FCC Requirement

According to KDB 447498 D01 v05r02, SAR evaluation specified in FCC 2.1093 is not required for portable equipment if the transmitter power is below the following threshold for 100MHz to 6GHz:

Highest Frequency of Transmitter Tunable Range F [GHz]	Min. Test Separation Distance D [mm]	1-g SAR Test Exclusion Threshold $(3.0 \cdot D / \sqrt{F}) + X$ [mW]	10-g SAR Test Exclusion Threshold $(7.5 \cdot D / \sqrt{F}) + X$ [mW]
2.480	5	9.525	23.813

Note: $X = 0$ for $D \text{ (in mm)} \leq 50\text{mm}$;
 $X = (D - 50\text{mm}) \cdot (1000 \cdot F / 150)$ for $D \text{ (in mm)} > 50\text{mm}$ and $F \text{ (in GHz)} \leq 1.5\text{GHz}$
 $X = (D - 50\text{mm}) \cdot 10$ for $D \text{ (in mm)} > 50\text{mm}$ and $F \text{ (in GHz)} > 1.5\text{GHz}$

IC Requirement

According to RSS-102 (Issue 4), clause 2.5.1, no SAR evaluation is required if the transmitter has a minimum separation distance to the user less than or equal to 20cm and has an output power (both conducted and e.i.r.p.) below the following threshold:

Equipment Use	Frequency Range	SAR Evaluation Threshold [mW]
General Public Use	2.2 – 3GHz	20

Measurement Result

The maximum measured transmitter power is given in the following table:

Conducted Output Power [mW]	Maximum Antenna Gain [dBi]	EIRP Output Power [mW]
0.077	-2.59	0.042

Conclusion

SAR evaluation is not required since the maximum transmitter output power (both conducted and e.i.r.p.) is below the FCC and IC thresholds.

Refer to test report 50004840 001 for more details.