

RF Exposure / MPE Calculation

No. : 29LE0057-HO-01-C

Applicant	:	SOKKIA TOPCON CO., LTD.
Type of Equipment	:	WT11 Bluetooth Module
Model No.	:	WT11
FCC ID	:	S6MWT11
IC Number	:	5790A-WT11

SOKKIA TOPCON CO., LTD. declares that Model : WT11
complies with FCC radiation exposure requirement specified in the FCC Rules 2.1093(for portable)/2.1091 (for mobile).

The “WT11“ has 13.84 mW of conducted Peak Output power and 21.93 mW of EIRP.
This kind of equipment is below 60/frequency[GHz] mW(TCB Exclusion List)
so that SAR testing is excluded. The Following calculation is the reference data for 20cm distance.

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the “WT11“ as calculated from FCC OET Bulletin 65 Appendix A, Table (B) Limits for General Population / Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0mW/cm² uncontrolled exposure limit. The Friis formula used was:

$$S = (P * G) / (4 * \pi * r^2)$$

Where

P =	13.84 mW (Maximum peak output power)	
G =	1.58 Numerical Antenna gain; equal to	2.00 dBi
r =	20.0 cm	

For: WT11

$$S = 0.00436 \text{ mW/cm}^2$$

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