

## 10 Appendix A - General Product Information

### Radiofrequency radiation exposure evaluation

This exposure evaluation is intended for **FCC ID: TFOR4GPS**

According to KDB 447498 D01v06 section 4.3.1, For frequencies between 100 MHz to 6GHz and test separation distances  $\leq$  50 mm, the Numeric threshold is determined as:

Step a)

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR

>> The fundamental frequency of the EUT is 2402-2480MHz,  
the test separation distance is  $\leq$  50mm.  
(Manufacturer specified the separation distance is: 5mm)  
(5mm is the worst case according to the KDB)

Step b)

>> Numeric threshold (2402MHz), mW / 5mm \*  $\sqrt{2.402\text{GHz}}$   $\leq$  3.0  
Numeric threshold (2402MHz)  $\leq$  9.678mW

>> Numeric threshold (2440MHz), mW / 5mm \*  $\sqrt{2.440\text{GHz}}$   $\leq$  3.0  
Numeric threshold (2440MHz)  $\leq$  9.602mW

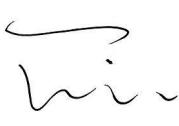
>> Numeric threshold (2480MHz), mW / 5mm \*  $\sqrt{2.480\text{GHz}}$   $\leq$  3.0  
Numeric threshold (2480MHz)  $\leq$  9.525mW

>> The power (measured + tune up tolerance) of EUT at 2402MHz is: 3.72dBm = 2.36mW  
The power (measured + tune up tolerance) of EUT at 2440MHz is: 3.79dBm = 2.39mW  
The power (measured + tune up tolerance) of EUT at 2480MHz is: 4.16dBm = 2.61mW

Which is smaller than the Numeric threshold.

Therefore, the device is exempt from stand-alone SAR test requirements.

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