## **Radio Frequency Exposure**

## **LIMIT**

According to §15.247(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.

## **EUT Specification**

EUT	Running Watch GPS
Frequency band (Operating)	<ul> <li>WLAN: 2.412GHz ~ 2.462GHz</li> <li>WLAN: 5.150GHz ~ 5.250GHz</li> <li>WLAN: 5.725GHz ~ 5.850GHz</li> <li>Bluetooth: 2.402GHz ~ 2.480 GHz</li> <li>Zigbee: 2.405GHz ~ 2.480 GHz</li> </ul>
Device category	<ul><li>✓ Portable (&lt;20cm separation)</li><li>✓ Mobile (&gt;20cm separation)</li></ul>
Exposure classification	<ul> <li>✓ Occupational/Controlled exposure (S = 5mW/cm²)</li> <li>✓ General Population/Uncontrolled exposure (S=1mW/cm²)</li> </ul>
Antenna diversity	☐ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Max. output power	GFSK: -9.55dBm(0.11mW)
Antenna gain (Max)	0.8 dBi
Evaluation applied	<ul><li>✓ MPE Evaluation*</li><li>✓ SAR Evaluation</li><li>✓ N/A</li></ul>
Remark:	

- The maximum average output power is <u>-9.55 dBm (0.11mW)</u> at <u>2402MHz</u> (with <u>numeric 0.8dBi antenna gain</u>.)
- 2.  $\overline{DTS}$  device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.
- For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.

\*Note: Simultaneous transmission is not applicable for this EUT.

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## **TEST RESULTS**

According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation distance ≤ 50 mm are determined by:

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

The max. average power of channel, including tune-up tolerance(mW) is 0.11mW @ 2402MHz (With Tune-up tolerance),

The min. test separation distance (mm) is 5 mm,

So, [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] = 0.03 < 3.0$  (With Tune-up tolerance).

Therefore, standalone SAR measurements are not required for both head and body.

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