



HERMON LABORATORIES

FCC ID: WCHWAVEBTFSK

### RF exposure evaluation

The WAVE140 PWS operating according to FCC part 15 subpart C section 15.249. The WAVE140 PWS operating at 2433 MHz that is a far field region. The radiated power within the 1-mW in the far-field region can be exempt and no evaluation is required according to §1.1307(b)(3)(i)(A).

#### Far-Field Region:

Power estimate via the far-field was described by the following equation:

$$P = 4\pi r^2 \frac{E^2}{Z_0}, \text{ where } Z = 120\pi$$

Where:

$Z_0$  = free impedance in Far-Field region =  $377\Omega$

#### Power calculation for Far-Field region

F, MHz	d, m	$\lambda, m$	E, dB $\mu$ V/m	E, V/m	Near-field formula		Far-field formula	
					P, W	P, mW	P, W	P, mW
2433	3	0.123304	90.89	0.035035	0.000368	0.368232	0.000368	0.368232

Based on the above the product can be considered complying with the RF exposure limitations.

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EXPERTS IN GLOBAL COMPLIANCE SOLUTIONS



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Product Safety



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