



### RADIO FREQUENCY EXPOSURE

## LIMIT

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 §15.247(b)(4) and §1.1307(b)(1) of this chapter.

## **EUT Specification**

Lot opcomoduon	
EUT	2.4G Digital Wireless System
Model	WT434
Frequency Band (Operating)	2403.0 MHz ~2478.0 MHz
	☐ Portable (<20cm separation)
Device Category	■ Mobile (>20cm separation)
	□ Others
	☐ Occupational/Controlled exposure (S = 5mW/cm2)
Exposure Classification	■ General Population/Uncontrolled exposure
	(S=1mW/cm2)
	■ Single antenna
	☐ Multiple antennas
Antenna Diversity	☐ Tx diversity
	☐ Rx diversity
	☐ Tx/Rx diversity
Max. Output Power	14.59dBm
Antenna Gain (Max)	3.0dBi (Numeric gain:2)
Evaluation Applied	■ MPE Evaluation
	☐ SAR Evaluation
NI 4	

## Note:

- 1. The maximum mix output power is 14.59dBm (28.77mW) with 2 numeric antenna gain.
- 2. For mobile or fixed location transmitters, no SAR consideration applied. The minimum separation generally be used is at least 20 cm, even if the calculations indicate that the MPE distance would be lesser.

#### **TEST RESULT**

No non-compliance noted.

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## Calculation

Given

 $S = \frac{P \times G}{4\Pi d^2}$ 

(Equation 1)

Where d = distance in cm

P = Power in mW

G = Numeric antenna gain

S = Power Density in mW / cm<sup>2</sup>

## **Maximum Permissible Exposure**

EUT Output Power=28.77mW

Numeric antenna gain=2

Substituting the MPE safe distance using d=20 cm into Equation 1:

Yields

The power density  $S = 28.77 \times 2/(4 \Pi \times 400) \text{ cm}^2 = 0.0115 \text{mW/cm}^2$ 

(For mobile or fixed location transmitters, the maximum power density is  $1.0~\text{mW}\,/\,\text{cm}^2$  even if the calculation indicates that the power density would be larger.)

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