

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

| EUT | AR20300T 20Ch PowerSafe Receiver |
|----------------------------|--|
| Model | SPMAR20300T, SPMAR20310T |
| Frequency Band (Operating) | 2404.0 MHz ~2476.0 MHz |
| Device Category | □ Portable (<20cm separation) |
| | Mobile (>20cm separation) |
| | □ Others |
| | □ Occupational/Controlled exposure (S = 5mW/cm2) |
| Exposure Classification | General Population/Uncontrolled exposure |
| | (S=1mW/cm2) |
| Antenna Diversity | ■ Single antenna |
| | Multiple antennas |
| | □ Tx diversity |
| | □ Rx diversity |
| | □ Tx/Rx diversity |
| Max. Output Power | 19.52dBm |
| Antenna Gain (Max) | 2.0dBi (Numeric gain:1.58) |
| Evaluation Applied | MPE Evaluation |
| | □ SAR Evaluation |
| Noto: | |

Note:

1. The maximum mix output power is 19.52dBm (89.54mW) with 1.58 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

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

Given

(Equation 1)

Where d = distance in cm

P = Power in mW

G = Numeric antenna gain

S = Power Density in mW / cm²

Maximum Permissible Exposure

EUT Output Power=89.54mW

Numeric antenna gain=1.58dBi

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

Yields

The power density S = 89.54×1.58/ (4Π ×400) cm² =0.028mW/cm²

(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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