

# FCC ID : P5FBTR388

## Portable device

According to §15.247(e)(i) and §1.1307(b)(1), 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 level in excess of the Commission's guidelines.

According to KDB 447498 D01 General RF Exposure Guidance v05, section 4.3.1

### **SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm**

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

| MHz  | 5  | 10 | 15  | 20  | 25  | mm                                      |
|------|----|----|-----|-----|-----|---|
| 150  | 39 | 77 | 116 | 155 | 194 | SAR Test<br>Exclusion<br>Threshold (mW) |
| 300  | 27 | 55 | 82  | 110 | 137 |   |
| 450  | 22 | 45 | 67  | 89  | 112 |   |
| 835  | 16 | 33 | 49  | 66  | 82  |   |
| 900  | 16 | 32 | 47  | 63  | 79  |   |
| 1500 | 12 | 24 | 37  | 49  | 61  |   |
| 1900 | 11 | 22 | 33  | 44  | 54  |   |
| 2450 | 10 | 19 | 29  | 38  | 48  |   |
| 3600 | 8  | 16 | 24  | 32  | 40  |   |
| 5200 | 7  | 13 | 20  | 26  | 33  |   |
| 5400 | 6  | 13 | 19  | 26  | 32  |   |
| 5800 | 6  | 12 | 19  | 25  | 31  |   |

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}^{16} \text{ where}$$
$$f(\text{GHz}) \text{ is the RF channel transmit frequency in GHz}$$

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Maximum measured transmitter power

| Frequency(GHz) | Conducted Power (mw) |
|----------------|----------------------|
| 2.480          | 1.256                |

Maximum Tx power is 1.256mW.

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [√ f(GHz)]= 1.256/5\* √ 2.480=0.396 ≤ 3.0

Threshold at which no SAR required is 10mW and ≤ 3.0 for 1-g SAR, Separation distance is 5mm.

**Conclusion:** No SAR is required.

## **SIMULTANEOUS TRANSMISSION EVALUATION**

N/A