

**FCC ID: 2ACVK-1003**

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 KDB447498 D01 General RF Exposure Guidance V06

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

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

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

BLE:

Antenna Type : PCB Antenna

Antenna Gain: 1.0 dBi

| Modulation | Channel Freq. (GHz) | Conduct ed power (dBm) | Conducte d power (mW) | Tune-up power (dBm) | Max tune-up power (dBm) | Max tune-up power (mW) | Distance (mm) | Result calculatio n | 1g SAR Exclusion threshold | SAR test exclusion |
|------------|---------------------|------------------------|-----------------------|---------------------|-------------------------|------------------------|---------------|---------------------|----------------------------|--------------------|
| GFSK       | 2.402               | 1.86                   | 1.535                 | 1.5±1               | 2.5                     | 1.778                  | <5            | 0.55121             | 3.00                       | YES                |
|            | 2.44                | 2.04                   | 1.600                 | 1.5±1               | 2.5                     | 1.778                  | <5            | 0.55555             | 3.00                       | YES                |
|            | 2.480               | 0.58                   | 1.143                 | 1.5±1               | 2.5                     | 1.778                  | <5            | 0.56009             | 3.00                       | YES                |

WiFi:

Antenna Type : PCB Antenna

Antenna Gain: 1.0 dBi

| Modulation      | Channel Freq. (GHz) | Conduct ed power (dBm) | Conducte d power (mW) | Tune-up power (dBm) | Max tune-up power (dBm) | Max tune-up power (mW) | Distance (mm) | Result calculatio n | 1g SAR Exclusion threshold | SAR test exclusion |
|-----------------|---------------------|------------------------|-----------------------|---------------------|-------------------------|------------------------|---------------|---------------------|----------------------------|--------------------|
| 802.11b         | 2.412               | 8.9                    | 7.762                 | 8±1                 | 9                       | 7.943                  | <5            | 2.46728             | 3.00                       | YES                |
|                 | 2.437               | 8.8                    | 7.586                 | 8±1                 | 9                       | 7.943                  | <5            | 2.48003             | 3.00                       | YES                |
|                 | 2.462               | 8.9                    | 7.762                 | 8±1                 | 9                       | 7.943                  | <5            | 2.49272             | 3.00                       | YES                |
| 802.11g         | 2.412               | 8.6                    | 7.244                 | 8±1                 | 9                       | 7.943                  | <5            | 2.46728             | 3.00                       | YES                |
|                 | 2.437               | 8.8                    | 7.586                 | 8±1                 | 9                       | 7.943                  | <5            | 2.48003             | 3.00                       | YES                |
|                 | 2.462               | 8.1                    | 6.457                 | 8±1                 | 9                       | 7.943                  | <5            | 2.49272             | 3.00                       | YES                |
| 802.11n (20MHz) | 2.412               | 7.6                    | 5.754                 | 7±1                 | 8                       | 6.310                  | <5            | 1.95983             | 3.00                       | YES                |
|                 | 2.437               | 7.8                    | 6.026                 | 7±1                 | 8                       | 6.310                  | <5            | 1.96996             | 3.00                       | YES                |
|                 | 2.462               | 7                      | 5.012                 | 7±1                 | 8                       | 6.310                  | <5            | 1.98004             | 3.00                       | YES                |
| 802.11n (40MHz) | 2.422               | 7.6                    | 5.754                 | 7±1                 | 8                       | 6.310                  | <5            | 1.96389             | 3.00                       | YES                |
|                 | 2.437               | 7.7                    | 5.888                 | 7±1                 | 8                       | 6.310                  | <5            | 1.96996             | 3.00                       | YES                |
|                 | 2.452               | 7.8                    | 6.026                 | 7±1                 | 8                       | 6.310                  | <5            | 1.97601             | 3.00                       | YES                |

**Conclusion:**

For the max result : 2.49272 ≤ 3.0 for 1-g SAR, No SAR is required.

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**Signature:**

**Date:** 2017-12-11

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