## FCC ID: 2ACAZQD-701BT-WT

## **RF EXPOSURE EVALUATION METHOD**

## SAR Test Exclusion Thresholds for 100 MHz $\,$ - $\,$ 6 GHz and $\,$ $\leq$ 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 |                                   |  |  |
| 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  | SAR Test Exclusion Threshold (mW) |  |  |
| 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  |                                   |  |  |

Maximum measured transmitter power

| TX 802.11b Mode     |             |  |  |  |  |  |  |  |
|---------------------|-------------|--|--|--|--|--|--|--|
| Test<br>Channe      | Frequency   | Maximum Peak<br>Conducted Output<br>Power (PK) | Maximum Peak<br>Conducted Output<br>Power (AV) | Maximum Peak<br>Conducted Output Power<br>(AV) |  |  |  |  |
|                     | (MHz) (dBm) |  | (dBm)  | mW   |  |  |  |  |
| CH01                | 2412        | 12.37  | 9.12   | 8.166  |  |  |  |  |
| CH06                | 2437        | 12.98  | 9.46   | 8.83   |  |  |  |  |
| CH11                | 2462        | 12.77  | 9.37   | 8.65   |  |  |  |  |
| TX 802.11g Mode     |             |  |  |  |  |  |  |  |
| CH01                | 2412        | 11.76  | 8.47   | 7.030  |  |  |  |  |
| CH06                | 2437        | 11.56  | 8.34   | 6.823  |  |  |  |  |
| CH11                | 2462        | 11.46  | 8.26   | 6.699  |  |  |  |  |
| TX 802.11n(20) Mode |             |  |  |  |  |  |  |  |
| CH01                | 2412        | 10.33  | 8.33   | 6.808  |  |  |  |  |
| CH06                | 2437        | 10.46  | 8.45   | 6.998  |  |  |  |  |
| CH11                | 2462        | 10.57  | 8.58   | 7.211  |  |  |  |  |

Remark: The best case gain of the antenna is 0dBi.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  50 mm are determined by: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,mm)] • [ $\sqrt{f(GHz)}$ ]

## WIFI:

| Mode        | [(max. power of channel, including tune-up tolerance, mW) | (min. test<br>separation<br>distance,mm)] | [√f(GHz)] | Result | Limit |  |  |  |
|-------------|---|---|-----------|--------|-------|--|--|--|
| 802.11b     |   |   |           |        |       |  |  |  |
| CH01        | 8.912   | 5   | 2.412     | 2.77   | 3     |  |  |  |
| CH06        | 8.912   | 5   | 2.437     | 2.78   | 3     |  |  |  |
| CH11        | 8.912   | 5   | 2.462     | 2.80   | 3     |  |  |  |
| 802.11g     |   |   |           |        |       |  |  |  |
| CH01        | 7.943   | 5   | 2.412     | 2.47   | 3     |  |  |  |
| CH06        | 7.943   | 5   | 2.437     | 2.48   | 3     |  |  |  |
| CH11        | 7.943   | 5   | 2.462     | 2.49   | 3     |  |  |  |
| 802.11n(20) |   |   |           |        |       |  |  |  |
| CH01        | 7.943   | 5   | 2.412     | 2.47   | 3     |  |  |  |
| CH06        | 7.943   | 5   | 2.437     | 2.48   | 3     |  |  |  |
| CH11        | 7.943   | 5   | 2.462     | 2.49   | 3     |  |  |  |

The test Result is less than 3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR.

Conclusion: No SAR is required.