

**FCC ID: 2AE3N-ATH650-ATH635****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  $\leq 50$  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:

- $f(\text{GHz})$  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.

**2.4GWIFI:**

| 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 calculation | SAR Exclusion threshold | SAR test exclusion |
|---------------|---------------------|------------------------|-----------------------|---------------------|-------------------------|------------------------|---------------|--------------------|-------------------------|--------------------|
| 802.11b       | 2.412               | 8.687                  | 7.39                  | 8±1                 | 9.00                    | 7.94                   | <5            | 2.46728            | 3.00                    | YES                |
|               | 2.437               | 8.696                  | 7.41                  | 8±1                 | 9.00                    | 7.94                   | <5            | 2.48003            | 3.00                    | YES                |
|               | 2.462               | 8.105                  | 6.46                  | 8±1                 | 9.00                    | 7.94                   | <5            | 2.49272            | 3.00                    | YES                |
| 802.11g       | 2.412               | 8.993                  | 7.93                  | 8±1                 | 9.00                    | 7.94                   | <5            | 2.46728            | 3.00                    | YES                |
|               | 2.437               | 7.397                  | 5.49                  | 7±1                 | 8.00                    | 6.31                   | <5            | 1.96996            | 3.00                    | YES                |
|               | 2.462               | 8.764                  | 7.52                  | 8±1                 | 9.00                    | 7.94                   | <5            | 2.49272            | 3.00                    | YES                |
| 802.11n(HT20) | 2.412               | 7.624                  | 5.79                  | 7±1                 | 8.00                    | 6.31                   | <5            | 1.95983            | 3.00                    | YES                |
|               | 2.437               | 7.937                  | 6.22                  | 7±1                 | 8.00                    | 6.31                   | <5            | 1.96996            | 3.00                    | YES                |
|               | 2.462               | 7.227                  | 5.28                  | 7±1                 | 8.00                    | 6.31                   | <5            | 1.98004            | 3.00                    | YES                |

**Conclusion:**

For the max result :  $2.49272 \leq \text{FCC Limit } 3.0$  for 1g SAR.