



## RF Exposure Evaluation

1. The corresponding SAR Exclusion Threshold condition, listed below:

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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

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

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

## 2. CLASSIFICATION

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

## EUT Specification

|                           |   |
|---------------------------|---|
| <b>FCC ID</b>             | <b>2AZNY-TW880</b>  |
| <b>PRODUCT:</b>           | WIRELESS MICROPHONE   |
| <b>MODEL NO.:</b>         | TW880<br>TW881, TW882, TW883, TW884, TW885, TW886, TW887, TW888                               |
| <b>STANDARDS:</b>         | FCC Part 15.236<br>KDB 447498 D01 V06<br>ANSI C95.1- 1999                                     |
| <b>Antenna type:</b>      | PCB antenna   |
| <b>Antenna gain (Max)</b> | 3.0dBi  |
| <b>Evaluation applied</b> | <input type="checkbox"/> MPE Evaluation<br><input checked="" type="checkbox"/> SAR Evaluation |



### 3. SAR TEST EXCLUSION THRESHOLDS

| Frequency | RF Output power | Tolerance | Max Tune Up power |       | Antenna Gain | min. test separation distance | Result | Limit |
|-----------|-----------------|-----------|-------------------|-------|--------------|-------------------------------|--------|-------|
| (MHz)     | (dBm)           | (dBm)     | (dBm)             | (mW)  | (dBi)        | (mm)                          |        |       |
| 538.2     | 4.865           | 4±1       | 5                 | 3.162 | 3.0          | 5                             | 0.9258 | 3     |
| 569.4     | 4.752           | 4±1       | 5                 | 3.162 | 3.0          | 5                             | 0.9522 | 3     |
| 598.8     | 4.961           | 4±1       | 5                 | 3.162 | 3.0          | 5                             | 0.9765 | 3     |

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 0.3013 which is ≤ 3, RF Exposure testing is not required.

Note: Exclusion Thresholds Results=[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)]

f(GHz) is the RF channel transmit frequency in GHz

Distance=5mm

**Conclusion:** No SAR is required.