

## RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

Product Description	TSUMTSUM Bluetooth Speaker
Model Name	276-883808
FCC ID	2AD2X8838

### 2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 5$  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

### 3. CALCULATION

According to the follow transmitter output power ( $P_t$ ) formula:

$$P_t = (E \times d)^2 / (30 \times g_t)$$

$P_t$ =transmitter output power in watts

$g_t$ =numeric gain of the transmitting antenna (unitless)

$E$ =electric field strength in V/m

$d$ =measurement distance in meters (m)

According to the report ATSE170407611,

The result for RF exposure evaluation

$\text{SAR} = (3.197\text{mW} / 5\text{mm}) \cdot [\sqrt{2.48(\text{GHz})}] = 0.252 < 3.0$  for 1-g SAR

### 4. CONCLUSION

The SAR evaluation is not required.