

RF EXPOSURE EVALUATION

Product Name	:	WIRELESS MICROPHONE
Model Name	:	U-2100BT, U-8298BT, U-8198BT, U-6298BT, U-6198BT, PRO-6988BT, PRO-6198BT, U-1100BT, U-2018BT, U-2008BT, U-2400BT, U-4088BT, U-4188BT, U-4288BT, U-2788BT, U-2988BT, U-3988BT, U-5988BT, Derrica-509BT, Derrica-508BT, Derrica-1000BT, Derrica-2002BT, TWM-321BT, TWM-322BT, PGX24BT, MGX24BT, BGX24BT, UHXPRO-01BT, UHXPRO-02BT, UPRO-MBT, UPRO-HBT, UPRO-MMBT, UPRO-MHBT, JAGUAR-BT, T-40BT, T-42BT
FCC ID	:	2ABXZU-2100BT
Operating frequency	:	480-529.75MHz
Antenna Type	:	Internal Antenna
Antenna Gain	:	0dBi
Type of Modulation	:	FM
Power supply	:	DC 2*1.5V Battery
Device category	:	Portable (<20cm separation)

Standard Requirement

According to § 15.247(i) and § 1.1307b(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 levels in excess of the Commission's guidelines. See KDB 447498 D01 General RF Exposure Guidance v05, section 4. 3. 1.

The 1-g and 10-g SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances $\leq 50\text{mm}$ are determined by:

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

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

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

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

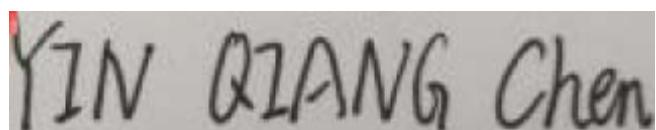
One antenna is available for the EUT. The minimum separation distance is 5mm.

Frequency (MHz)	Output Power (dBm)	Limit (dBm)
Low Channel: 480.0	2.21	17
Middle Channel: 505.0	2.58	17
High Channel: 529.75	3.83	17

Channel Frequency (MHz)	Tune up tolerance (dBm)	Tune up power(dBm)	Output power (mW)	Calculation Result	Limits
Low Channel	2±1	3	2.00	0.27647	3
Mid Channel	2±1	3	2.00	0.28358	3
High Channel	3±1	4	2.51	0.36574	3

According to KDB 447498, threshold at which no SAR required is ≤ 3.0 for 1-g SAR. Separation distance is 5mm, and no simultaneous SAR measurement is required.

Client's signature:



Client's name / title: YIN QIANG Chen / Manager

Date: 2018-07-30