



RF EXPOSURE EVALUATION

FCC ID: 2ACFQ-XTREAMP400

Product Name	:	Wireless Headphone
Model Name	:	Xtream P400
Additional model	:	Xtream P100, Xtream P200, Xtream P300, Xtream, P500, Xtream P600, Xtream T100, Xtream T200, Xtream T300, Xtream T400, Xtream T500, Xtream B100, Xtream B200, Xtream B300, Xtream B400, Xtream B500, Xtream P700, Xtream P800, Xtream P900, Xtream T600, Xtream T700, Xtream T800, Xtream T900, Xtream B600, Xtream B700, Xtream B800, Xtream B900
Bluetooth Version	:	BT BDR and BLE
Operating frequency	:	2402-2480MHz
Numbers of Channel	:	40 channels For DTS 79 channels for BDR
Antenna Type	:	PCB Antenna
Antenna Gain	:	2.08dBi
Type of Modulation	:	GFSK, $\pi/4$ -DQPSK, 8DPSK For DSS
Power supply	:	Input: DC 5V Li-ion Battery 3.7V, 380mAh
Hardware Version	:	N/A
Software Version	:	N/A



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 v06, 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.

Channel (MHz)	Maximum output power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Distance (mm)	Calculation results	Limit	Operating Mode
2441	6.71	6.71 ± 1	5.902011	5	1.844225	3	3DH5
2480	2.06	2.06 ± 1	2.023019	5	0.637171	3	BLE_2M

According to KDB 447498, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

Signature

Simon Pu

Manager

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