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Maximum RF Exposure Evaluation

FCC ID: 2ATXW-TVEB200

According to KDB447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a)

EUT Specification

Table with 2 columns: Specification Item and Value. Rows include Product Name (TV-EARBUDS), Trade Mark (/), Model/Type reference (TV-EB200), Listed Model(s) (TV-EB200PRO, TV-EB200PRO PLUS), Frequency band (Operating) with checkboxes for BT/EDR, BLE, WLAN, and Others, Device category with checkboxes for Portable, Mobile, Fixed, and Others, Antenna diversity with checkboxes for Single antenna, Multiple antennas, Tx diversity, Rx diversity, and Tx/Rx diversity, Antenna gain (Max) (-0.68dBi), and Evaluation applied (RF Exposure Evaluation, SAR Evaluation).

Limit

Limits for Maximum Permissible Exposure (MPE)

Table with 5 columns: Frequency Range(MHz), Electric Field Strength(V/m), Magnetic Field Strength(A/m), Power Density(mW/cm²), and Average Time. It is divided into two sections: (A) Limits for Occupational/Control Exposures and (B) Limits for General Population/Uncontrol Exposures.



Friis transmission formula: $Pd=(Pout \cdot G) / (4 \cdot \pi \cdot R^2)$

Where

Pd= Power density in mW/cm²

Pout= output power to antenna in mW

G= gain of antenna in linear scale

Pi= 3.1416

R= distance between observation point and center of the radiator in cm

Pd the limit of MPE 1mW/cm². If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, We will know the distance where the MPE limit is reached.

Measurement Result

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)
GFSK	2475	-0.68	5.6	5±1	6	0.00065	1

0.00065< 1,So the transmitter complies with the RF exposure requirements and the SAR is not required

Note

For a more detailed features description, please refer to the RF Test Report.

*****THE END*****