

FCC RF Exposure

EUT Description: Motorcycle Helmets Bluetooth headsets

Model No.: BT31, BT8, BT9, BT10, BT10S, BT11, BT12, BT12B, BT16, BT18, BT19, BT22, BT22B, BT26, BT30, BT30S, BT35

FCC ID: **2A662-BT31**

1. Limits

According to KDB 447498 D01 General RF Exposure Guidance v06 The 1 - g and 10 - g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
[(max power of channel, including tune - up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1 - g SAR and ≤ 7.5 for 10 - g extremity SAR,

Where:

Result = $P/D \cdot \sqrt{F}$

F = the RF channel transmit frequency in GHz

P = Maximum turn - up power in mW

D = Min. test separation distance in mm

2. Test Result of RF Exposure Evaluation

Frequency (MHz)	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power dBm/mW	Min test separation distance mm	Result	Limit (mW/cm ²)	SAR Test Exclusion
2441	4.08	4 ± 1	5/3.16	5	0.987	3.0	Pass
Note: PK Output power = conducted power. Conducted power see the test report HK2205242186-E , antenna gain = -0.68dBi							

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 0.987 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)] $\cdot [\sqrt{f(\text{GHz})}]$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Distance = 5mm