

FCC RF Exposure

Product Name: BT Speaker

FCCID: 2BBPZ-HY20230701

Model(s): HY-S10, HY-S01, HY-S02, HY-S03, HY-S04, HY-S05, HY-S06, HY-S07, HY-S08, HY-S09, HY-S11, HY-S12, HY-S13, HY-S14, HY-S15, HY-S16, HY-S17, HY-S18, HY-S19, HY-S20, HY-S21, HY-S22, HY-S23, HY-S25, HY-S26, HY-S27, HY-S28, HY-S29, HY-S30, HY-S31, HY-S32, HY-S33, HY-S35, HY-S36, HY-S37, HY-S38, HY-S39, HY-S50, HY-M01, HY-M02, HY-M03, HY-M04, HY-M05, HY-M06, HY-M07, HY-M08, HY-M09, HY-M11, HY-M12, HY-M13, HY-M14, HY-M15, HY-M16, HY-M17, HY-M18, HY-M19, HY-M20, HY-M21, HY-M22, HY-M23, HY-M25, HY-M26, HY-M27, HY-M28, HY-M29, HY-M30, HY-M31, HY-M32, HY-M33, HY-M35, HY-M36, HY-M37, HY-M38, HY-M39, HY-M50, S3, T1, T7

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: $[(\text{max power of channel, including tune - up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1 - g SAR and ≤ 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
2480	2.37	2±1	3/2.00	5	0.63	3.0	Pass
Note: PK Output power= conducted power. Conducted power see the test report HK2307042845-E , antenna gain=-0.58dBi							

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 0.63 which is ≤ 3 , RF Exposure testing is not required.

Note: Exclusion Thresholds Results= $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

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

Distance=5mm