

RF Exposure Requirements

Product Description: Bluetooth headset

Model No.: Z20

FCC ID: 2AF8QZ20

According to the KDB 447498 D01 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, 16 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

Bluetooth(EDR)

Conducted Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	Result	Limit
0.416	1.10	5	2.480	0.34	3

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$: $1.10/5 \cdot \sqrt{2.480} = 0.34$

The exclusion thresholds is $0.34 < 3$, therefore, the RF exposure evaluation is not required.

Bluetooth(BLE)

Conducted Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	Result	Limit
0.422	1.10	5	2.440	0.34	3

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$: $1.10/5 \cdot \sqrt{2.440} = 0.34$

The exclusion thresholds is $0.34 < 3$, therefore, the RF exposure evaluation is not required.