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:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,16 where
- f(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

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)]: 1.10/5*√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

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)]: 1.10/5*√2.440=0.34

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