# FCC RF Exposure

EUT Description:Bluetooth headset

Test type.:M33

Series model:
M35,M36,M38,M39,M50,M51,M52,M53,M55,M6,M57M58,M59,M60,M61,M66,M80,M88

Test Report No.： FCS202312257

FCC ID: 2BDG8-M33

Equipment type: Portable Device

1. Test Procedure

   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)] · [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,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

   The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

2. Test Result of RF Exposure Evaluation

| Mode | Channel Freq. (MHz) | Maximum Conducted Output Power(PK) | Antenna Gain (dBi) | Antenna gain numeric | Max tune-up power (W) |
|---|---|---|---|---|---|
| GFSK | 2402 | -1.97 | -0.58 | 0.875 | 0.0006353 |
| | 2441 | 0.65 | -0.58 | 0.875 | 0.0011614 |
| | 2480 | 2.09 | -0.58 | 0.875 | 0.0016180 |

BLE:[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,mm)] · [$\sqrt{f(GHz)}$]=1.6180/5*$\sqrt{2.480}$=0.5096≤3.0 Threshold at which no SAR required is and ≤ 3.0 for 1-g SAR, Separation distance is 5mm.

Conclusion:no SAR required