

FCC RF Exposure

EUT Description: Bluetooth gaming headset

Model No.: X07

FCC ID: 2A6OB-X07

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:

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]}{\leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}}$$

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

BT EDR	Output power (dBm/ mW)	Result calculation	SAR Exclusion threshold	SAR Test exclusion
2402 MHz	3.482/2.2294	0.69104	3.0	Yes
2441 MHz	-4.060/0.3926	0.12267	3.0	Yes
2480 MHz	-4.376/0.3650	0.11496	3.0	Yes

BT LE	Output power (dBm/ mW)	Result calculation	SAR Exclusion threshold	SAR Test exclusion
2402 MHz	3.713/2.3512	0.72879	3.0	Yes
2440 MHz	3.975/2.4974	0.78021	3.0	Yes
2480 MHz	3.828/2.4143	0.76040	3.0	Yes

Conclusion: No SAR is required