RF Exposure Requirements

Product Description: Powered speaker system Model No.: PR/01 FCC ID: X3QPR01

According to the KDB-447498 D01 V05r02, the following RF exposure evaluation shall to demonstrate RF exposure compliance.

Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation

distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,

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

So,

Numeric Threshold= (max. power of channel) / (Min Test separation Distance) \times [\checkmark

f(GHz)]

max. power of channel= (Numeric Threshold) \times (Min Test separation Distance) / [\checkmark

f(GHz)]

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 (Classic mode)

Tx frequency range: 2402~2480MHz Device category: Bluetooth device Maximum Conducted Output Power: 2.72dBm in highest channel (2.480 GHz) 2.72dBm logarithmic terms convert to numeric result is nearly 2mW. General RF Exposure = (2mW / 5 mm) x $\sqrt{2.480}$ GHz = 0.630 ① SAR requirement: S= 3.0 ②

1 < 2.

So the SAR report is not required.