

Product Name : Home Audio System

Model Number: GTK-XB90

FCC ID: AK8GTKXB90

## **RADIO FREQUENCY EXPOSURE COMPLIANCE RESULT :**

Test Standard : FCC KDB Publication 447498 D01 V06 Clause 4.3.1,

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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f_{(\text{GHz})}}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, 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
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

According to the actual measurement,

max. power of channel, including tune-up tolerance = 1.496mW

min. test separation distance = 5mm

$\sqrt{f_{(\text{GHz})}} = 1.55$

The test result is  $0.46376 \leq 3.0$  for 1-g SAR  $\leq 7.5$  for 10-g SAR, hence the EUT is excluded from SAR evaluation according to FCC KDB Publication 447498 D01: General RF Exposure Guidance V06.