

Product Name: Complex Set-Top Box

Model Number: P2571

FCCID: VOB-P2571

RADIO FREQUENCY EXPOSURE COMPLIANCE RESULT :

Test Standard : FCC KDB Publication 447498 D01 V05R02 Clause 4.3.1,

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:

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

$\left[\sqrt{f_{\text{(GHz)}}} \right] \leq 3.0$ for 1-g SAR and ≤ 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 ≤ 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 = 0.019mW

min. test separation distance = 5mm

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

The test result is $0.00589 \leq 3.0$ for 1-g SAR ≤ 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 V05.