

FCC RF Exposure

EUT Description: SMART TV BOX

Model No.: X1 II

FCC ID: 2AGN7-X1

1. Limits

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:

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

Where:

Result = $P \sqrt{F/D}$

F = the RF channel transmit frequency in GHz

P = Maximum turn-up power in m

D = Min. test separation distance in mm

2. Test Result of RF Exposure Evaluation

Modulation	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up Power dBm/mW	Min. test separation distance, mm	Result	Limit (mW/cm ²)	SAR Test Exclusion
802.11b	10.01	9.3 ± 1	10.3/10.71	20	0.83	3.0	Yes
802.11g	5.91	6.0 ± 1	7/5.01	20	0.39	3.0	Yes
802.11n(HT20)	4.91	5.0 ± 1	6/3.98	20	0.31	3.0	Yes
802.11n(HT40)	3.35	4.0 ± 1	5/3.16	20	0.24	3.0	Yes