

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	LED Stand Light Remote control
Model Name	TT-CL025, TT-CL028, TT-CL029, TT-CL030
FCC ID	2AVUHTT-CL00X

2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05

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:

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

3. CALCULATION

P_t=-6.115dBm=0.24mW

The value of the Maximum output power P_t is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR=(0.24mW /5mm) .[$\sqrt{2.48}$ (GHz)]= 0.075<3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

P_t=-32.98dBm=0.000503mW

The value of the Maximum output power P_t is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR=(0.000503mW / 5mm) .[$\sqrt{0.43392}(\text{GHz})$]= 0.000066<3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

The BLE and 433.92MHz can transmit simultaneously 0.075+0.000066=0.075066<3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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