

Maximum Permissible Exposure Report

EUT.....	: Bulb Adapter
Type / Model.....	: TT-IH001
Applicant.....	: SUNVALLEYTEK INTERNATIONAL, INC.
Address.....	: 46724 Lakeview Blvd, Fremont, California, United States, 94538-6529
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Shenzhen NearbyExpress Technology Development Company Limited
Address.....	: 333 Bulong Road, Jialianda Industrial Park, Building 1, Bantian, Longgang District, Shenzhen, China
Telephone.....	: /
Fax.....	: /

RADIO FREQUENCY EXPOSURE

1. Limit

According to §1.1310 and §2.1091 RF exposure is calculated.

Table: Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Power Density (S) (mW/cm ²)
0.3–1.34	*(100)
1.34–30	*(180/f ²)
30–300	0.2
300–1500	f/1500
1500–100,000	1.0

F = frequency in MHz

* = Plane-wave equivalent power density

Maximum Permissible Exposure

The MPE was calculated at 20cm to show compliance with the power density limit.

$$S = PG/4\pi R^2$$

S = Power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna.

Note:

1. Manufacturer declared that the maximum antenna gain is 1.45dBi (Max.) for 2412~2462MHz.
2. Manufacturer declared that the nearest distance between human and the EUT is 20cm.
3. Only record worst case data.

2. Test Results

Conducted Power Result

Test	Channel	ANT a Power (dBm)	ANT Max. Tune Up Power (dBm)
802.11b	1	16.5	16.0±1.0
	6	16.4	16.0±1.0
	11	16.1	16.0±1.0
802.11g	1	14.7	14.0±1.0
	6	14.5	14.0±1.0
	11	13.8	13.0±1.0
802.11n20	1	12.8	12.0±1.0
	6	12.6	12.0±1.0
	11	12.2	12.0±1.0
802.11n40	3	10.8	10.0±1.0
	6	10.5	10.0±1.0
	9	9.9	9.0±1.0

Standalone MPE

Mode	Max. ANT Power (dBm)	ANT Max. Tune Up Power (dBm)	ANT Max. Tune Up Power (mW)	ANT MPE (mW/cm ²)	Limit (mW/cm ²)
802.11b	16.5	16.0±1.0	50.119	0.0139	1.0
802.11g	14.7	14.0±1.0	31.623	0.0088	1.0
802.11n20	12.8	12.0±1.0	19.953	0.0055	1.0
802.11n40	10.8	10.0±1.0	12.589	0.0035	1.0

Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.