

### Maximum Permissible Exposure Report

EUT.....	: LED TV
Type / Model.....	: ELSJ5517
<b>Applicant.....</b>	<b>: Shenyang Tongfang Multimedia Technology Co., Limited</b>
Address.....	: No. 10 Nanping East Road HunNan New District Shenyang, LiaoNing Province P.R. China
Telephone.....	: /
Fax.....	: /
<b>Manufacturer.....</b>	<b>: Shenyang Tongfang Multimedia Technology Co., Limited</b>
Address.....	: No. 10 Nanping East Road HunNan New District Shenyang, LiaoNing Province P.R. 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 <sup>2</sup> )
0.3–1.34	*(100)
1.34–30	*(180/f <sup>2</sup> )
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 2.00dBi (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

### Standalone MPE

Test	Channel	ANT Power (dBm)	ANT Max. Tune Up Power (dBm)	ANT Max. Tune Up Power (mW)	ANT MPE (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
802.11b	1	17.56	17.0±1.0	63.096	0.0199	1.0
	6	17.02	17.0±1.0	63.096	0.0199	1.0
	11	16.85	16.0±1.0	50.119	0.0158	1.0
802.11g	1	12.84	12.0±1.0	19.953	0.0063	1.0
	6	13.07	13.0±1.0	25.119	0.0079	1.0
	11	13.16	13.0±1.0	25.119	0.0079	1.0
802.11n20	1	13.22	13.0±1.0	25.119	0.0079	1.0
	6	12.86	12.0±1.0	19.953	0.0063	1.0
	11	13.24	13.0±1.0	25.119	0.0079	1.0
802.11n40	3	11.64	11.0±1.0	15.849	0.0050	1.0
	6	11.25	11.0±1.0	15.849	0.0050	1.0
	9	11.68	11.0±1.0	15.849	0.0050	1.0

### Conclusion

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