

## RF Exposure / SAR Statement

**No. : 31GE0143-SH-02-A**

**Applicant** : ALPS Electric Co., Ltd  
**Type of Equipment** : Wireless LAN Module  
**Model No.** : UGFZ1  
**FCC ID** : CWTUGFZ1

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ALPS Electric Co., Ltd declares that Model : Wireless LAN Module complies with FCC radiation exposure requirement specified in the FCC Rules 2.1093. The "UGFZ1" has 15.93 mW of conducted Peak Output power and 23.56 mW of EIRP. This kind of equipment is below 60/frequency[MHz] W (TCB Exclusion List) so that SAR testing is excluded. The Following calculation is the reference data for 20cm distance.

### **RF Exposure Calculations:**

The following information provides the minimum separation distance for the highest gain antenna provided with the "UGFZ1" as calculated from FCC OET Bulletin 65 Appendix A, Table (B) Limits for General Population / Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0mW/cm<sup>2</sup> uncontrolled exposure limit. The Friis formula used was:

$$S = (P * G) / (4 * \pi * r^2)$$

Where

**P = 15.93 mW (Maximum peak output power)**  
**G = 1.48 Numerical Antenna gain; equal 1.70 dBi**  
**r = 20.0 cm**

**For: UGFZ1**

$$S = 0.00469 \text{ mW/cm}^2$$

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**UL Japan, Inc.**

**Shonan EMC Lab.**

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken, 259-1220 JAPAN

Telephone: +81 463 50 6400

Facsimile: +81 463 50 6401