

# **RF Exposure / SAR Statement**

## **No. : 13722221S**

**Applicant** : **ALPS ALPINE CO., LTD.**  
**Type of EUT** : **Display Audio**  
**Model Nounber of EUT** : **Music Halo**  
**FCC ID** : **A269ZUA164**

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ALPS ALPINE CO., LTD. declares that Model : Music Halo complies with  
FCC radiation exposure requirement specified in the FCC Rules 2.1091(for mobile).  
Music Halo is intended to be used Bluetooth and Wireless LAN simultaneously within 20 cm.

### **RF Exposure Calculations:**

The following information provides the minimum separation distance for the highest gain antenna provided with the “Music Halo“ as calculated  
from FCC Part 1, §1.1310, TABLE 1 (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:

$$S = ( (P1 * G1) + (P2 * G2) ) / (4 * \pi * r^2)$$

#### **Where**

**P1 = 2.00 mW (Maximum average output power ) \*1)**

**P2 = 13.43 mW (Maximum average output power) \*2)**

**G1 = 0.51 Numerical Antenna gain; equal to -3.00 dBi \*1)**

**G2 = 0.43 Numerical Antenna gain; equal to -3.70 dBi \*2)**

**r = 20.0 cm**

**For: Music Halo ( Bluetooth Low Energy and Wireless LAN (5 GHz band))**

**S = 0.00136 mW/cm<sup>2</sup>**

Even taking into account the tolerance, this device can be satisfied with the limits.

\*1) Bluetooth Low Energy value

\*2) Wireless LAN (5 GHz band) value

This calculation was made to show that the EUT complies with the limit in simultaneous transmitting  
of Bluetooth LowEnergy and Wireless LAN (5 GHz band).

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