Issue Date : February 15, 2008
Page 1 of 1

RF Exposure Calculation

Exposure of Humans to RF Fields Requirements

Applicant : HOSIDEN Corporation

Type of Equipment : Wii Remote
Model No. : RVL-003
FCC ID : VIYCFS8500

Regulations Applied : CFR 47 FCC 15.247

References Documents : CFR 47 FCC 2.1091, 2.1093 and OET65 Appendix A

RF Exposure Calculations:

The following minimum separation distance between the EUT's antenna and the human body was calculated in accordance with FCC OET65 Appendix A Table(B) "Limit for General Population / Uncontrolled Exposure".

The maximum permissible exposure level is defined with 1mW/cm².

The minimum separation distance where the exposure level reaches the permitted level can be calculated as bellow:

Where: $S = P * G / 4\pi R^2$

R = 20.0 cm (Separation distance)

P = 1.496 mW (= 1.75 dBm Max. conducted output power at antenna terminal)

G = 1.567(numeric gain) (= 1.95 dBi Max. antenna Gain)

S = Calculated Value

 $(S_{Limit} = 1.0 \text{ mW/cm}^2 \text{ for } 2.4 \text{ GHz (Max. permissible exposure level)})$

Then $s = 0.000466 \text{ mW/cm}^2$.

The calculated value is under the Maximum permissible exposure level.

Summary:

The EUT complies with the RF exposure requirement of the above regulation.

Eiichi Saegusa Senior Manager

Japan Quality Assurance Organization

SAFETY & EMC CENTER

EMC Engineering Dept. Testing Division