RF Exposure / MPE Calculation

No.: 10058679H

Applicant : SUMITOMO PRECISION PRODUCTS CO.,LTD Type of Equipment : 920MHz/20mW TRANSCEIVER MODULE

Model No. : WM-Z3001 FCC ID : WWGZ3001

SUMITOMO PRECISION PRODUCTS CO.,LTD declares that Model: WM-Z3001 complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091 (for mobile).

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "WM-Z3001" as calculated $\,$

from (B) Limits for General Population / Uncontrolled Exposure of

TABLE 1- LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE) of §1.1310 Radiofrequency radiation exposure limits.

This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0mW/cm^2 uncontrolled exposure limit. The Friis formula used was:

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

Where

P = 19.39 mW (Maximum Average output power)

G = 1.64 Numerical Antenna gain; equal to 2.14 dBi

r = 20.0 cm

For: WM-Z3001 $S = 0.00631 \text{ mW/cm}^2$