RF Exposure / MPE Calculation

No.: 10008991H

Applicant : silex technology, Inc.
Type of Equipment : SDIO Wireless Module

Model No. : SX-SDMGN FCC ID : N6C-SDMGN

silex technology, Inc. declares that Model: SX-SDMGN complies with FCC radiation exposure requirement specified in the FCC Rule 2.1091 (for mobile).

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "SX-SDMGN" 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 = 194.73 mW (Maximum average output power)

G = 2.00 Numerical Antenna gain; equal to 3.00 dBi

r = 20.0 cm

For: SX-SDMGN $S = 0.07730 \text{ mW/cm}^2$

Reference data from Original test report: 32IE0153-HO-01

Where

P = 194.73 mW (Maximum peak output power)

G = 1.62 Numerical Antenna gain; equal to 2.10 dBi

r = 20.0 cm

For: SX-SDMGN $S = 0.06283 \text{ mW/cm}^2$

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