Excellence in Compliance Testing

Certification Exhibit

FCC ID: V2A-ECO
IC: 7566A-ECO

FCC Rule Part: 15.247
IC Radio Standards Specification: RSS-247

ACS Project Number: 15-2038

Manufacturer: RG3 Meter Company
Model: ECO

RF Exposure

General Information:

Applicant: RG3 Meter Company
ACS Project: 15-2038
Device Category: Mobile
Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Monopole Antenna
Antenna Gain: 0 dB
Maximum Transmitter Conducted Power: 29.43 dBm, 877 mW
Maximum System EIRP: 29.43 dBm, 877 mW
Exposure Conditions: Greater than 20 centimeters

MPE Calculation

The Power Density (mW/cm^2) is calculated as follows:

$$S = \frac{PG}{4\pi R^2}$$

Where:
S = power density (in appropriate units, e.g. mW/cm2)
P = power input to the antenna (in appropriate units, e.g., mW)
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Table 1: FCC Maximum Permissible Exposure

MPE Calculator for Mobile Equipment Limits for General Population/Uncontrolled Exposure*							
Transmit Frequency (MHz)	**Radio Power (dBm)**	**Power Density Limit (mW/Cm2)**	**Radio Power (mW)**	**Antenna Gain (dBi)**	**Antenna Gain (mW eq.)**	**Distance (cm)**	**Power Density (mW/cm^2)**
900	29.43	0.27	877.00	0	1.000	20	0.174

Table 2: Innovation Science Economic Development Canada Maximum Permissible Exposure

MPE Calculator for Mobile Equipment Limits for General Population/Uncontrolled Exposure*							
Transmit Frequency (MHz)	**Radio Power (dBm)**	**Power Density Limit (mW/Cm2)**	**Radio Power (mW)**	**Antenna Gain (dBi)**	**Antenna Gain (mW eq.)**	**Distance (cm)**	**Power Density (mW/cm^2)**
900	29.43	2.74	877.00	0	1.000	20	1.745

Installation Guidelines

The installation manual should contain text similar to the following advising how to install the equipment to maintain compliance with the FCC RF exposure requirements:

RF Exposure

In accordance with FCC requirements of human exposure to radio frequency fields, the radiating element shall be installed such that a minimum separation distance of 20 centimeters will be maintained.

Conclusion

This device complies with the MPE requirements by providing adequate separation between the device, any radiating structure and the general population.