Excellence in Compliance Testing

Certification Exhibit

FCC ID: R7PGRAMCNLX1
IC: 5294A-GRAMCNLX1

FCC Rule Part: 15.247
IC Radio Standards Specification: RSS-210

ACS Report Number: 08-0433 - 15C

Manufacturer: Cellnet Technology, Inc.
Model: GasLX Residential American

RF Exposure

General Information:

Applicant: Cellnet Technology, Inc.
ACS Project: 08-0433
Device Category: Mobile
Environment: General Population/Uncontrolled Exposure

Technical Information

Antenna Type: Integral Loop
Antenna Gain: -3dBi
Transmitter Conducted Power: 23.37dBm (217mW)
Maximum System EIRP: 20.37dBm (108mW)

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)

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)
917.58	23.37	0.61	217.27	-3	0.501	20	0.022

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.