

## **Certification Exhibit**

### FCC ID: R7PWGRS4

### FCC Rule Part: 15.247

### ACS Report Number: 09-0421.W03.11.A

Manufacturer: Cellnet Technology Inc. Model: Gridstream Wangate

# **RF Exposure**

#### **General Information:**

Applicant:	Cellnet Technology Inc.
ACS Project:	09-0421
Device Category:	Mobile
Environment:	General Population/Uncontrolled Exposure

#### **Technical Information:**

Antenna Type: Omnidirectional Dipole Antenna Gain: 5.5dBi Maximum Transmitter Conducted Power: 29.79 dBm, 953mW Maximum System EIRP: 35.29 dBm, 3381 mW Exposure Conditions: Greater than 22 centimeters

#### MPE Calculation

The Power Density (mW/cm<sup>2</sup>) 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)	
902.3	29.77	0.60	948.42	5.5	3.548	22	0.553	
904	29.79	0.60	952.80	5.5	3.548	22	0.556	
915	29.76	0.61	946.24	5.5	3.548	22	0.552	
927.8	29.75	0.62	944.06	5.5	3.548	22	0.551	
927.9	29.75	0.62	944.06	5.5	3.548	22	0.551	

#### 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 22 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.