



Excellence in Compliance Testing

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## **Certification Exhibit**

**FCC ID: HSW-DNT90  
IC: 4492A-DNT90**

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

**ACS Report Number: 10-0314.W06.11.A**

Manufacturer: RFM/Cirronet  
Model: DNT90C, DNT90P

## **RF Exposure**

**General Information:**

Applicant: RFM/Cirronet  
 ACS Project: 10-0314  
 Device Category: Mobile  
 Environment: General Population/Uncontrolled Exposure

**Technical Information:**

Antenna Description(s):  
 RFM RWA092R Omnidirectional Dipole Antenna, 2dBi  
 RFM OMNI095 Omnidirectional Dipole Antenna, 5dBi  
 RFM YAGI099 Directional Antenna, 6.1dBi

Maximum Antenna Gain: 6.1dBi  
 Maximum Transmitter Conducted Power: 21.76dBm, 149.97mW  
 Maximum System EIRP: 27.86dBm, 610.94mW  
 Exposure Conditions: Greater than 20 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)
915.24	21.76	0.61	149.97	6.1	4.074	20	0.122

**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.