

## **FCC Part 15.247 Certification** **Test Report**

**FCC ID: R32-RFCU**

**FCC Rule Part: 15.247**

**ACS Report Number: 04-0170-15C**

Manufacturer: Onity, Inc.  
Equipment Type: Modular Radio  
Model: RFCU

## **RF Exposure Information**

**General Information:**

Applicant: Onity, Inc.  
 ACS Project: 04-0170  
 FCC ID: R32-RFRCU  
 Device Category: Fixed Mount  
 Environment: General Population/Uncontrolled Exposure

**Technical Information:**

Antenna Type: Trace  
 Antenna Gain: 0dBi  
 Transmitter Conducted Power: 4.3dBm  
 Maximum System EIRP: 4.3dBm  
 Operating Configuration: Mobile  
 Exposure Conditions: Greater than 20cm

**MPE Calculation**

The minimum separation distance is calculated as follows:

$$E(V/m) = \frac{\sqrt{30 P_x G}}{d} \quad \text{Power Density: } P_d (mW/cm^2) = \frac{E^2}{3770}$$

**MPE Distance**

MPE Calculator for Mobile Equipment Limits for General Population/Uncontrolled Exposure*					
Transmit Freq. (MHz)	Radio Power (dBm)	Radio Power (W)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	MPE Distance (cm)
918.86	4.3	0.00319	0	1.00	0.59

**Installation Guidelines**

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

**"RF Exposure (Intentional Radiators Only)"**

This equipment complies with the FCC RF radiation requirements for uncontrolled environments. To maintain compliance with these requirements, the antenna and any radiating elements should be installed to ensure that a minimum separation distance of 20 cm is maintained from the general population.

**Conclusion**

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