

FCC Part 15.247 Certification **Test Report**

Frequency Hopping Spread Spectrum Transceiver

FCC ID: R7XTPM2

FCC Rule Part: 15.247

ACS Report Number: 04-0189-15C

Manufacturer: Test Point Tech, LLC
Equipment Type: Transceiver
Model: TPM2

RF Exposure Information

General Information:

Applicant: Test Point Tech, LLC
 ACS Project: 04-0189
 FCC ID: R7XTPM2
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Integral monopole antenna
 Antenna Gain: 0dB
 Transmitter Conducted Power: -7.39dBm
 Maximum System EIRP: -7.39dBm
 Operating Configuration: Soldered directly to the printed circuit board
 Exposure Conditions: Greater than 20 centimeters

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)
914.88	-7.39	0.00018	0	1.0	0.154

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)"

In accordance with FCC requirements of human exposure to radiofrequency fields, the radiating element shall be installed such that a minimum separation distance of (20cm)."

Conclusion

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