

FCC Part 101 Certification **Test Report**

FCC ID: P2SMTX950

FCC Rule Part: 101

ACS Report Number: 05-0025-101

Manufacturer: Neptune Technology Group, Inc.
Equipment Type: Mobile Drive-by Data Collector
Model: MTX950

RF Exposure Information

General Information:

Applicant: Neptune Technology Group, Inc.
 ACS Project: 05-0025
 FCC ID: P2SMTX950
 Device Category: Mobile
 Environment: Uncontrolled/General Population

Technical Information:

Antenna Type: Omni directional, magnetically mounted Monopole
 Antenna Gain: 5dBi
 Max Transmitter Output Power: 40.46 dBm
 Max System EIRP: 45.46 dBm
 Operating Configuration: Mobile
 Exposure Conditions: Greater than 67cm

MPE Calculation

The minimum separation distance is calculated as follows:

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

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)
956	40.46	11.12	5	3.16	66.12

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 67 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.