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Declaration of compliance to RF Exposure Limits for Humans

The Model PMV-107J with 314.94MHz tire pressure monitoring transmitter complies with RF exposure limits for humans as called out in RSS-102. The transmitter is used in a tire of a vehicle. It is exempt from RF Evaluation based on its operating frequency of 314.94MHz, and effective radiated power 17.86 microwatts.

$$E(dBuV/m) = 106.92 + ERP (dBk) - 20 log D (km)$$
  
 $ERP (dBk) = E(dBuV/m) - 106.92 + 20 log D (km)$ 

## where:

E=79.9 dBuV/m(peak), D=0.003 km

Therefore:

ERP (dBk) = 79.9 - 106.92 + 20log 0.003 = -27.02 - 50.45 = -77.47

ERP (W) =  $10^{-77.47/10}$ =  $17.9 \times 10^{-9}$  kW =  $17.9 \times 10^{-6}$  W = 17.9 microwatts

This would be less than the 1.5 watt requirement for a mobile device (>20 cm separation) and the 200 mw requirement for a portable device (<20 cm separation) operating at 314.94 MHz.

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