



H.B. Compliance Solutions

Maximum Permissible Exposure Statement

For the

Raveon Technologies Corporation

UHF Data Modem RV-M8-UC

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Prepared for:

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A handwritten signature in black ink, appearing to read 'Hoosamuddin Bandukwala'.

Hoosamuddin Bandukwala



Cert # ATL-0062-E

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where,

S = power density (mW/cm²)

P = output power at the antenna terminal (mW)

G = gain of transmit antenna (numeric)

R = distance from transmitting antenna (cm)

Maximum peak output power at antenna input terminal = 37.07 (dBm)

Maximum peak output power at antenna input terminal = 5000 (mW)

Antenna gain (typical) = 6 (dBi)

Maximum antenna gain = 3.98 (numeric)

Prediction distance = 80 (cm)

Prediction frequency = 450 (MHz)

MPE limit for uncontrolled exposure at prediction frequency = 0.300 (mW/cm²)

Power density at prediction frequency = 0.247443 (mW/cm²)

To solve for the minimum mounting distance required;

$$R = \sqrt{PG/4\pi S}$$

$R = \sqrt{5000 \times 3.98 / 4\pi \times 0.247443} = 80 \text{ cm}$ (Based on continuous transmission)

END OF TEST REPORT