H.B. Compliance Solutions

Maximum Permissible Exposure Statement

For the

Globalstar, Inc.

ST150M

September 29, 2022

Prepared for:

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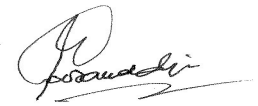

Hoosamuddin Bandukwala

Cert # ATL-0062-E

Prediction of MPE limit at a given distance

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

$S = PG/4\pi R2$

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)

For Bluetooth Transmitter

Maximum peak output power at antenna input terminal = 3.31 (dBm)
Maximum peak output power at antenna input terminal = 2.143 (mW)
Antenna gain (typical) = 1.3(dBi)
Maximum antenna gain = 1.35(numeric)
Prediction distance = 20 (cm)
Prediction frequency = 2402 (MHz)
MPE limit for uncontrolled exposure at prediction frequency = 1 (mW/cm^2)
Power density at prediction frequency = 0.00058 (mW/cm^2)

To solve for the minimum mounting distance required;

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

$R = \sqrt{(2.143 \times 1.35 / 4\pi \times 0.00058)}$ = 20 cm (Based on continuous transmission)

For Satellite Transmitter

Maximum peak output power at antenna input terminal = 24.94 (dBm) *
Maximum peak output power at antenna input terminal = 311.9 (mW)
Antenna gain (typical) = -0.24 (dBi)
Maximum antenna gain = 0.946 (numeric)
Prediction distance = 20 (cm)
Prediction frequency = 1618.75 (MHz)
MPE limit for uncontrolled exposure at prediction frequency = 1.0 (mW/cm^2)
Power density at prediction frequency = 0.0587 (mW/cm^2)

*Includes 1dB of manufacturer output power tolerance.

To solve for the minimum mounting distance required;

R = √ (PG/4πS)

R = √ (311.9 x 0.946 / 4π x 0.0587) = 20 cm (Based on continuous transmission)

Note:

Both transmitters (Bluetooth and Satellite) do not operate at the same time.

END OF TEST REPORT