MAXIMUM PERMISSIBLE EXPOSURE FOR SUBPART C

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900 MHz Band Calculations

For Model: 2GIG-GCX

910 – 920 MHz Transceiver & 908.4 MHz Z-Wave Transceiver

MPE Limit Calculation: EUT's operating frequency @ **910 - 920 MHz**; highest conducted power = **20dBm** (peak) therefore, limit for uncontrolled exposure: 0.6 mW/cm^2

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

EUT maximum antenna gain = **0 dBi**.

where, S = Power Density (mW/cm^2)
P = Power Input to antenna (100mW)
G = Antenna Gain (1 numeric)
S = $(100*1) / (4*3.14*20.0^2)$= **0.0199mW/cm^2** @ 20cm separation

MPE Limit Calculation: EUT's operating frequencies @ **908.4 MHz;** highest conducted power = **0dBm** (peak) therefore, limit for uncontrolled exposure: 0.6 mW/cm^2

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

EUT maximum antenna gain = **0 dBi.**

where, S = Power Density (mW/cm2)
P = Power Input to antenna (1mW)
G = Antenna Gain (1 numeric)
S = $(1*1) / (4*3.14*20.0^2)$ = **0.0002mW/cm^2** @ 20cm separation

MPE Summary:

Frequency Range	**MPE Result (mW/cm^2)**	**Limit (mW/cm^2)**
910 – 920 MHz	0.0199	0.6
908.4 MHz	0.0002	0.6
TOTAL	**0.0201**	**0.6**

0.0201mWcm^2 < 0.6 mW/cm^2