Electromagnetic Compatibility Criteria for Intentional Radiators

MPE

Test Requirement: Part 2.1093(d), Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

MPE Limit: EUT's operating frequencies @ 3100-10600MHz; **Limit for Uncontrolled exposure: 1 mW/cm^2 or 10 W/m^2**

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

$S = PG / 4\pi R^2$ or $R = \sqrt{(PG / 4\pi S)}$

where, S = Power Density (mW/cm^2)
P = Power Input to antenna (mW)
G = Antenna Gain (numeric value)
R = Distance (cm)

Test Results: The EUT was **compliant** with MPE limits..

Test Engineer: Donald Salguero

Test Date: October 26, 2018

Frequency (MHz)	EIRP (dBm)	EIRP (mW)	Ant. Gain (dBi)	Pwr. Density (mW/cm^2)	Limit (mW/cm^2)	Margin	Distance (cm)	Result
6333.08	-29.03	0.0013	4	0.000004	1	-0.999996	5	Pass

Table 7. MPE, Test Results