Maximum Permissible Exposure (MPE) Evaluation

Applicant	: Hitachi, Ltd.
Equipment	: The Gateway
Model No.	: EM-G21
FCC ID	: R2BEMG21

MPE Calculations
According to the OET Bulletin 65 (Edition 97-01)

$$S = \frac{PG}{4\pi R^2}$$

Where:
S=Power density (in appropriate units, e.g. mW/cm^2)
P=Power input to antenna (in appropriate units, e.g., mW)
G=Power gain of the antenna in the direction of interest relative to an isotropic radiator
R=Distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Tx Frequency=	2412 to 2462	[MHz]	: IEEE 802.11 b / g / n HT20	
	2422 to 2452	[MHz]	: IEEE 802.11 n HT40	
Maximum peak power=	21.77	[dBm]	: From Test Report No.: JM12100001(R1)	
Antenna gain=	7.01	[dBi]		
P=	150.36	[mW]		
G=	5.02	[numeric]		
R=	20.00	[cm]		

Calculated Power density : 0.15 [mW/cm^2]