Maximum Permissible Exposure (MPE) Evaluation

Applicant	: TOSHIBA CORPORATION
Equipment	: Cable Modem
Model No.	: DAZ8841A
FCC ID	: QVCCMDAZ8841A

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	(MHz)
Maximum peak power=	17.1	(dBm)
Antenna gain=	2.0	(dBi)

P=	51.29	(mW)
G=	1.58	(numeric)
R=	20.0	(cm)
S=	0.0162	(mW/cm^2)

(MPE limit = 1.0 mW/cm^2)

The Maximum power density at 20cm distance is calculated as : 0.0162 (mW/cm^2)

Notice in the User manual

FCC Radio-Frequency Exposure Statement

This equipment generates and radiates radio-frequency energy. In order to comply with FCC radio-frequency radiation exposure guidelines for an uncontrolled environment, this equipment has to be installed and operated while maintaining a minimum body to antenna distance of 20 cm based on continuous exposure of 30 minutes.