MPE

1 PREDICTION OF MPE LIMIT AT A GIVEN DISTANCE
EQUATION FROM PAGE 18 OF OET BULLETIN 65, EDITION 97-01

2 MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

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

where:
S = power density
P = power input to the antenna
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

3 TEST RESULTS

EUT：	wireless high-definition transmitter	Model Name ：	CB6608
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	TX MODE / CH01,CH02,CH03 ANT 1		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
-3.0	0.5012	17.20	52.4807	0.00523541	1	Complies
-3.0	**0.5012**	**18.31**	**67.7642**	**0.00676006**	**1**	**Complies**
-3.0	0.5012	17.87	61.2350	0.00610872	1	Complies

EUT：	wireless high-definition transmitter	Model Name ：	CB6608
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	TX MODE / CH01,CH02,CH03 ANT 2		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
-3.0	0.5012	17.40	54.9541	0.00548214	1	Complies
-3.0	**0.5012**	**18.12**	**64.8634**	**0.00647069**	**1**	**Complies**
-3.0	0.5012	17.98	62.8058	0.00626542	1	Complies

EUT：	wireless high-definition transmitter	Model Name ：	CB6608
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	TX MODE / CH01,CH02,CH03 ANT 3		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
-3.0	0.5012	17.43	55.3350	0.00552014	1	Complies
-3.0	**0.5012**	**18.10**	**64.5654**	**0.00644096**	**1**	**Complies**
-3.0	0.5012	17.75	59.5662	0.00594224	1	Complies

EUT：	wireless high-definition transmitter	Model Name ：	CB6608
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	TX MODE / CH01,CH02,CH03 ANT 4		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
-3.0	0.5012	17.65	58.2103	0.00580698	1	Complies
-3.0	**0.5012**	**18.18**	**65.7658**	**0.00656070**	**1**	**Complies**
-3.0	0.5012	17.98	62.8058	0.00626542	1	Complies

EUT：	wireless high-definition transmitter	Model Name ：	CB6608
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	TX MODE /CH01, CH02, CH03 -Total (ANT 1+ANT 2+ANT 3+ ANT 4)		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
-3.0	0.5012	23.4400	220.8005	0.02202675	1	Complies
-3.0	**0.5012**	**24.2000**	**263.0268**	**0.02623919**	**1**	**Complies**
-3.0	0.5012	23.9200	246.6039	0.02460086	1	Complies

Note:

The product has four antennas, it is the MIMO.