

Maximum Permissible Exposure

Class: N/A

Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 3/14/2017 Test Engineer: Mark Hill

Standard: FCC 15.B, 15.247, 15.407

General Test Configuration

Calculation uses the free space transmission formula:

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

Where: S is power density (W/m²), P is output power (W), G is antenna gain relative to isotropic, d is separation distance from the transmitting antenna (m).

Summary of Results

Device complies with Power Density requirements at 22cm separation:	Yes
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Modifications Made During Testing

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.



EMC Test Data

1	E ENGINEER SUCCESS		
Client:	Pace Americas Inc	Job Number:	JD102271
Model:	BGW210-700	T-Log Number:	T102846
		Project Manager:	Irene Rademacher
Contact:	Mark Rieger	Project Coordinator:	-
Standard:	FCC 15.B, 15.247, 15.407	Class:	N/A

FCC MPE Calculation

Use: General

Antenna: 8.3dBi for 2.4GHz (Aggregrate directional gain)

6.5dBi for UNII1 (Directional TxBF gain) 6.9dBi for UNII2a (Directional TxBF gain) 7.1dBi for UNII2c (Directional TxBF gain) 6.5dBi for UNII3 (Directional TxBF gain)

Worse case mode: n20, TxBF for 2.4GHz

n20, TxBF for UNII1 n40, TxBF for UNII3

Assessment of individual radio operation

recognition of marriadal radio operation								
	EUT		Cable Loss	Ant	Power		Power Density (S)	MPE Limit
Freq.	Power		Loss	Gain	at Ant	EIRP	at 22 cm	at 20 cm
MHz	dBm	mW*	dB	dBi	dBm	mW	mW/cm ²	mW/cm ²
2.4GHz radio operation								
2437	27.7	588.8	0	8.3	27.7	3981.07	0.655	1.000
5GHz radio operation								
5200	26.7	467.7	0	6.5	26.7	2089.30	0.344	1.000
5300	22.7	186.2	0	6.9	22.7	912.01	0.150	1.000
5580	22.7	186.2	0	7.1	22.7	954.99	0.157	1.000
5795	26.2	416.9	0	6.5	26.2	1862.09	0.306	1.000

Simultaneous transmission calculation using worse case (as a % of MPE limit @ 22cm) of 2.4GHz and 5GHz operation

Freq. MHz	% of	limit		
2437	% of limit 65.5			
5200	34.4			
·	Total:	99.9		