



# EMC Test Data

Client: Pace Americas, Inc.	Job Number: JD100795
Model: HR54-700	T-Log Number: T101528
	Project Manager: Irene Rademacker
Contact: Mark Rieger	Project Coordinator: -
Standard: FCC 15.247	Class: N/A

## Maximum Permissible Exposure / SAR Exclusion

### 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: 5/17/2016  
 Test Engineer: Mark Hill

### General Test Configuration

Calculation uses the free space transmission formula:

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

Where: S is power density ( $W/m^2$ ), 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 20cm separation:	Yes/No
If not, required separation distance (in cm):	

### 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.



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FCC MPE Calculation  
 Use: General  
 Antenna: Wifi - 2.4GHz: 3.3dBi; 5Gz: 4.1dBi  
 RF4CE: 4.9dBi

Band	Mode	Output Power		Antenna gain (Max)	EIRP		Channels Available	Channels Used	Total EIRP	
		Peak	Average		dBm	W			W	dBm
2412 - 2462	OFDM		23.0	3.3	26.3	0.427	11	1	-	-
2412 - 2462	CCK		23.1	3.3	26.4	0.437			0.437	26.40
2425 - 2475	RF4CE		-0.9	4.9	4.0	0.003	1	1	0.003	4.00
5150 - 5250	OFDM		22.2	4.1	26.3	0.427	4	-		
5250 - 5350	OFDM		21.6	4.1	25.7	0.372	4	-		
5470 - 5725	OFDM		22.2	4.1	26.3	0.427	11	-		
5725 - 5850	OFDM		22.0	4.1	26.1	0.407	5	-		
Totals:								2	0.439	26.42

Worse Case RF Exposure condition: Operation in the 2.4GHz band + RF4CE

FCC MPE Total		
Total EIRP mW	Power Density (S) at 20 cm mW/cm <sup>2</sup>	MPE Limit at 20 cm mW/cm <sup>2</sup>
439.03	0.087	1.000

Note: Manufacturer stated that the measured powers represent the maximum shipping power, including tolerances.