NTS
WE ENGINEER SUCCESS

EMC Test Data

Client:	Broadcom Corporation	Job Number:	J93687
Model:	BCM943142Y (802.11bgn WLAN + Bluetooth NGFF1630 Mini Card)	T-Log Number:	T93842
		Project Manager:	Sheareen Jacobs
Contact:	Anne Liang	Project Coordinator:	Irene
Standard:	15.247/RSS-210	Class:	N/A

Maximum Permissible Exposure

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: 11/21/2013
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

Use: General
Antenna: 3.8dBi

Worse case condition: 11b and BLE simultaneous transmission

Band	Mode	Output Power Peak	Output Power Average	Antenna gain (Max)	EIRP dBm	EIRP W	Channels Available	Channels Used	Total EIRP W	Total EIRP dBm
2400 - 2483.5	11b		19.0	3.8	22.8	0.191	13	1	0.191	22.80
2400 - 2483.5	Bluetooth	2.3		3.8	3.8	0.002	79	1	0.002	3.80
						Totals:	2		0.193	22.85

Power Density (S) at 20 cm mW/cm^2	MPE Limit at 20 cm mW/cm^2
0.038	1.000

Note: Per RSS-012, 2.5.2, the device is exempt from routine evaluation due to the maximum eirp < 5W.