



EMC Test Data

Client:	Broadcom Corporation	Job Number:	J80250
Model:	BCM943227HM4L	T-Log Number:	T80300
Contact:	Anne Liang/Pete Krebill	Account Manager:	Sheareen Washington
Standard:	FCC 15.247	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: 10/26/2010

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
Maximum Power Density at 20cm (mW/cm^2):	0.085

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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Use: General

Antenna: 3.9dBi (single chain modes), 6.9 dBi (MIMO modes)

802.11g

Freq. MHz	EUT Power		Cable Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Power Density (S) at 20 cm mW/cm^2	MPE Limit at 20 cm mW/cm^2
	dBm	mW*						
2412	14.9	30.9	0	3.9	14.9	75.86	0.015	1.000
2437	17.3	53.7	0	3.9	17.3	131.83	0.026	1.000
2462	15.7	37.2	0	3.9	15.7	91.20	0.018	1.000

802.11b

Freq. MHz	EUT Power		Cable Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Power Density (S) at 20 cm mW/cm^2	MPE Limit at 20 cm mW/cm^2
	dBm	mW*						
2412	18.7	74.1	0	3.9	18.7	181.97	0.036	1.000
2437	18.5	70.8	0	3.9	18.5	173.78	0.035	1.000
2462	18.6	72.4	0	3.9	18.6	177.83	0.035	1.000

802.11n20

Freq. MHz	EUT Power		Cable Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Power Density (S) at 20 cm mW/cm^2	MPE Limit at 20 cm mW/cm^2
	dBm	mW*						
2412	15.8	38.0	0	6.9	15.8	186.21	0.037	1.000
2437	19.4	87.1	0	6.9	19.4	426.58	0.085	1.000
2462	15.9	38.9	0	6.9	15.9	190.55	0.038	1.000

802.11n40

Freq. MHz	EUT Power		Cable Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Power Density (S) at 20 cm mW/cm^2	MPE Limit at 20 cm mW/cm^2
	dBm	mW*						
2422	12.0	15.8	0	6.9	12.0	77.62	0.015	1.000
2437	14.5	28.2	0	6.9	14.5	138.04	0.027	1.000
2452	13.7	23.4	0	6.9	13.7	114.82	0.023	1.000