

Client:	Summit Data Communications	Job Number:	J78403
Model:	SDC-WB40 (1x1 802.11abg + BT 2.1)	T-Log Number:	T80878
		Account Manager:	Christine Krebill
Contact:	Ron Seide		
Standard:	FCC 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: 2/14/2012

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
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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.

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Use: General
Antenna: 3dBi

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	14.5	27.9	0	3	14.5	55.59	0.011	1.000
2437	15.2	33.1	0	3	15.2	66.07	0.013	1.000
2462	14.4	27.5	0	3	14.4	54.95	0.011	1.000

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	11.9	15.5	0	3	11.9	30.90	0.006	1.000
2437	12.6	18.2	0	3	12.6	36.31	0.007	1.000
2462	10.4	11.0	0	3	10.4	21.88	0.004	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	7.9	6.2	0	3	7.9	12.30	0.002	1.000
2437	8.9	7.8	0	3	8.9	15.49	0.003	1.000
2462	9.5	8.9	0	3	9.5	17.78	0.004	1.000

802.11a

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*						
5745	7.8	6.0	0	3	7.8	11.89	0.002	1.000
5785	7.9	6.2	0	3	7.9	12.42	0.002	1.000
5805	7.8	6.0	0	3	7.8	12.05	0.002	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*						
5745	10.6	11.6	0	3	10.6	23.12	0.005	1.000
5785	10.3	10.8	0	3	10.3	21.58	0.004	1.000
5805	10.2	10.5	0	3	10.2	20.89	0.004	1.000

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UNII Bands

802.11a

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*						
5180	9.8	9.5	0	6.5	9.8	42.46	0.008	1.000
5200	10.0	9.9	0	6.5	10.0	44.36	0.009	1.000
5240	10.8	11.9	0	6.5	10.8	53.09	0.011	1.000
5260	12.8	19.0	0	6.5	12.8	84.92	0.017	1.000
5300	14.2	26.0	0	6.5	14.2	116.14	0.023	1.000
5320	10.5	11.2	0	6.5	10.5	50.12	0.010	1.000
5500	15.0	31.3	0	6.5	15.0	139.96	0.028	1.000
5580	13.5	22.3	0	6.5	13.5	99.54	0.020	1.000
5700	8.1	6.4	0	6.5	8.1	28.64	0.006	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*						
5180	8.6	7.3	0	6.5	8.6	32.58	0.006	1.000
5200	8.9	7.7	0	6.5	8.9	34.28	0.007	1.000
5240	9.7	9.3	0	6.5	9.7	41.50	0.008	1.000
5260	11.9	15.6	0	6.5	11.9	69.82	0.014	1.000
5300	13.2	20.7	0	6.5	13.2	92.68	0.018	1.000
5320	8.5	7.1	0	6.5	8.5	31.62	0.006	1.000
5500	13.3	21.4	0	6.5	13.3	95.50	0.019	1.000
5580	12.8	19.0	0	6.5	12.8	84.72	0.017	1.000
5700	10.7	11.7	0	6.5	10.7	52.36	0.010	1.000