

EMC Test Data

	An AZAS company		
Client:	Summit Data Communications	Job Number:	J78403
Model	SDC MSD40NBT (1v1 902 11 abo + BT 2 1)	T-Log Number: T83195	T83195
wodei.	SDC-MSD40NBT (1x1 802.11abg + BT 2.1)	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: 2/28/2012 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/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 20cm separation:	VΔc
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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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Contact:	Ron Seide								
Standard:	FCC 15.247/RSS-210						Class: N/A		
Jse: Antenna:	General 2dBi for 2	GHz, 5dE	Bi for 5GHz						
802.11b	EU	IT	Cable	Ant	Power		Power Density (S)	MPE Limit	
Freq.	Pov		Loss	Gain	at Ant	EIRP	at 20 cm	at 20 cm	
MHz	dBm	mW*	dB	dBi	dBm	mW	mW/cm^2	mW/cm^2	
2412	15.7	37.2	0	2	15.7	59.02	0.012	1.000	
2412	15.7	39.1	0	2	15.7	61.94	0.012	1.000	
2462	10.1	10.2	0	2	10.1	16.22	0.012	1.000	
02.11g									
•	EUT		Cable	Ant	Power		Power Density (S)	MPE Limit	
Freq.	Pov	ver	Loss	Gain	at Ant	EIRP	at 20 cm	at 20 cm	
MHz	dBm	mW*	dB	dBi	dBm	mW	mW/cm^2	mW/cm^2	
2412	14.7	29.7	0	2	14.7	47.10	0.009	1.000	
2437	14.1	25.7	0	2	14.1	40.74	0.008	1.000	
2462	10.7	11.6	0	2	10.7	18.41	0.004	1.000	
302.11n20		ı	Oalda	Λ 1	D		D Dit - (0)	MDE Limit	
F	EU		Cable	Ant	Power	FIDD	Power Density (S)	MPE Limit	
Freq.	Pov	i - ·	Loss	Gain	at Ant	EIRP	at 20 cm	at 20 cm	
MHz	dBm	mW*	dB 0	dBi	dBm	mW	mW/cm^2	mW/cm^2	
2412	14.2 11.6	26.3 14.3	0	2	14.2	41.69 22.70	0.008 0.005	1.000 1.000	
2437 2462	10.0	10.1	0	2	11.6 10.0	15.96	0.003	1.000	
02.11a			-			10.00		1.000	
	EU		Cable	Ant	Power		Power Density (S)	MPE Limit	
Freq.	Pov		Loss	Gain	at Ant	EIRP	at 20 cm	at 20 cm	
MHz	dBm	mW*	dB	dBi	dBm	mW	mW/cm^2	mW/cm^2	
5745	15.7	37.2	0	5	15.7	117.49	0.023	1.000	
5785	15.5	35.5	0	5	15.5	112.20	0.022	1.000	
5805	15.8	38.0	0	5	15.8	120.23	0.024	1.000	
02.11n20									
	EU		Cable	Ant	Power		Power Density (S)	MPE Limit	
Freq.	Pov		Loss	Gain	at Ant	EIRP	at 20 cm	at 20 cm	
MHz	dBm	mW*	dB	dBi	dBm	mW	mW/cm^2	mW/cm^2	
5745	15.7	37.2	0	5	15.7	117.49	0.023	1.000	
5785	15.4	34.7	0	5	15.4	109.65	0.022	1.000	
5805	15.3	33.9	0	5	15.3	107 15	0.021	1 000	

33.9

0

15.3

5805

107.15

0.021

15.3

1.000

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Model:	SDC-MSD40NBT (1x1 802.11abg + BT 2.1)						T-Log Number:	
WOOD.	ODO-WOD-ONDT (TAT OOZ. Flagg + DT 2.1)						Account Manager:	Christine Krebill
Contact:	Ron Seid	е						
Standard:	FCC 15.247/RSS-210						Class:	N/A
							II.	I.
JNII Bands	6							
02.11a								
	EL	JT	Cable	Ant	Power		Power Density (S)	MPE Limit
Freq.	Pov	ver	Loss	Gain	at Ant	EIRP	at 20 cm	at 20 cm
MHz	dBm	mW*	dB	dBi	dBm	mW	mW/cm ²	mW/cm^2
5180	9.8	9.5	0	5	9.8	30.06	0.006	1.000
5200	10.0	9.9	0	5	10.0	31.41	0.006	1.000
5240	10.8	11.9	0	5	10.8	37.58	0.007	1.000
5260	12.8	19.0	0	5	12.8	60.12	0.012	1.000
5300	14.2	26.0	0	5	14.2	82.22	0.016	1.000
5320	10.5	11.2	0	5	10.5	35.48	0.007	1.000
5500	15.0	31.3	0	5	15.0	99.08	0.020	1.000
5580	13.5	22.3	0	5	13.5	70.47	0.014	1.000
5700	8.1	6.4	0	5	8.1	20.28	0.004	1.000
302.11n20	EU	JT	Cable	Ant	Power		Power Density (S)	MPE Limit
Freq.	Pov	ver	Loss	Gain	at Ant	EIRP	at 20 cm	at 20 cm
MHz	dBm	mW*	dB	dBi	dBm	mW	mW/cm^2	mW/cm^2
5180	8.6	7.3	0	5	8.6	23.07	0.005	1.000
5200	8.9	7.7	0	5	8.9	24.27	0.005	1.000
5240	9.7	9.3	0	5	9.7	29.38	0.006	1.000
5260	11.9	15.6	0	5	11.9	49.43	0.010	1.000
5300	13.2	20.7	0	5	13.2	65.61	0.013	1.000
5320	8.5	7.1	0	5	8.5	22.39	0.004	1.000
5500	13.2	20.9	0	5	13.2	66.07	0.013	1.000
5580	12.6	18.2	0	5	12.6	57.54	0.011	1.000
5700	10.7	11.7	0	5	10.7	37.07	0.007	1.000