Elliott EMC Test Data MATAS Com Client: Nextivity Inc Job Number: J86441 T-Log Number: T86829 Model: RS225 WU and RS225 CU Account Manager: Sheareen Washington Contact: Steve van Skike Standard: RSS 132, RSS 133, FCC Part 22, FCC Part 24 Class: 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: 4/27/2012 Test Engineer: David Bare 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:

C I		ot						EM	IC Test	t Data
Client: Nextivity Inc Model: RS225 WU and RS225 CU Contact: Steve van Skike Standard: RSS 132, RSS 133, FCC Part 22, FCC Part 24 Use: General Used for Multiple Transmitters CU unit (a transmitted "channel" for both WCDMA and OFDM consists of t subchannels respectively. All sub channels were present during power me Band Mode Peak Average gain (Max) dBm WCDMA 10.2 0.0 5470-5725 OFDM 20.6 5.5 26.1 0.40 Power Density (S) @ 20cm (mW/cm^2) 0 MPE Limit @ 20cm (mW/cm^2) 0 MPE Limit @ 20cm (mW/cm^2) 0 Mode Output Power Antenna EIRP gain (Max) dBm W 0 0.0 0.0 MPE Limit @ 20cm (mW/cm^2) 0 MPE Limit @ 20cm (mW/cm^2) 0 Band Mode Output Power Antenna EIRP Igain (Max) dBm W 10.0 0.0 10.0 0.01 1930-1990 WCDMA						Job Number: J86441				
Model:	RS225 W	U and R	S225 CU				T-Lo	og Number:	T86829	
O a rata ata	Chave	Chiles			Account Manager: Sneareen Washir					
Contact:	Steve van	DCC 13	3 ECC Part	22 ECC Da		Class				
Stanuaru.	d: KSS 132, KSS 133, FUU Part 22, FUU Part 24 Class: -								-	
Use:	General									
Used for M CU unit (a t subchannel	ultiple Tra ransmitted s respectiv	insmitte "channe rely. All s	rs el" for both V sub channels	VCDMA and s were prese	OFDM con	sists of the 3	WCDMA su ements.)	b channels	or the 6 OFDI	N
Band	Mode	Outp	ut Power	Antenna	E	IRP	Channels	Channels	Total	EIRP
960 904		Peak	Average	gain (Max)	dBm	W	Available	Used	W	dBm 14.07
009-094	VCDIVIA		10.2	0.0	10.2	0.010	- 5	3	0.031	14.97
5470-5725	OFDM		20.6	5.5	26.1	0.407	7	1	0.407	26.10
							Totals:	4	0.439	26.42
CU unit (a t subchannel	ransmitted s respectiv	"channe 'ely. All s	MPE Lin Distance I" for both V ub channels	nit @ 20cm (at which S > VCDMA and s were prese	(mW/cm^2) MPE Limit OFDM content during potent	1.0 5.9cm sists of the 3 ower measure	WCDMA su ements.)	b channels	or the 6 OFDI	М
Band	Mode	Outp	ut Power	Antenna	E	IRP	Channels	Channels	Total EIRP	
		Peak	Average	gain (Max)	dBm	W	Available	Used	W	dBm
1930-1990	WCDMA		10.0	0.0	10.0	0.010	5	3	0.030	14.77
5470-5725	OFDM		20.6	5.5	26.1	0.407	7	1	0.407	26.10
			-				Totals:	4	0.437	26.41
		Pow	er Density (MPE Lin Distance	S) @ 20cm (nit @ 20cm (at which S >	(mW/cm^2) (mW/cm^2) ∙ MPE Limit	0.087 1.0 5.9cm				

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EMC Test Data

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Client:	Nextivity Inc	Job Number:	J86441
Client: Nextivity Inc Job Number: J86441 Model: RS225 WU and RS225 CU T-Log Number: T86829 Account Manager: Sheareen W Contact: Steve van Skike Sheareen W Standard: RSS 132, RSS 133, FCC Part 22, FCC Part 24 Class:	T86829		
		Account Manager:	Sheareen Washington
Contact:	Steve van Skike		
Standard:	RSS 132, RSS 133, FCC Part 22, FCC Part 24	Class:	-

WU unit (a transmitted "channel" for both WCDMA and OFDM consists of the 3 WCDMA sub channels or the 6 OFDM subchannels respectively. All sub channels were present during power measurements.)

Band	Mode	Output Power		Antenna	EIRP		Channels	Channels	Total	EIRP
		Peak	Average	gain (Max)	dBm	W	Available	Used	W	dBm
824-849	WCDMA		17.3	4.4	21.7	0.148	5	3	0.444	26.47
5150-5350	OFDM		16.6	5.5	22.1	0.162	5	1	0.162	22.10
			-			-	Totals:	4	0.606	27.82

Power Density (S) @ 20cm (mW/cm^2)

MPE Limit @ 20cm (mW/cm^2)

Distance at which S > MPE Limit

0.121 1.0 6.9cm

WU unit (a transmitted "channel" for both WCDMA and OFDM consists of the 3 WCDMA sub channels or the 6 OFDM subchannels respectively. All sub channels were present during power measurements.)

Band	Mode	Output Power		Antenna	EIRP		Channels	Channels	Total EIRP	
		Peak	Average	gain (Max)	dBm	W	Available	Used	W	dBm
1850-1910	WCDMA		19.1	4.4	23.5	0.224	5	3	0.672	28.27
5150-5350	OFDM		16.6	5.5	22.1	0.162	5	1	0.162	22.10
			-		-		Totals:	4	0.834	29.21

- Power Density (S) @ 20cm (mW/cm^2) 0.166
 - MPE Limit @ 20cm (mW/cm^2)
 - 1.0 Distance at which S > MPE Limit 8.1cm