

Client: Nextivity, Inc.	Job Number: J89693
Model: CELFI-RS224WU	T-Log Number: T89741
	Account Manager: Christine Krebill
Contact: Michiel Lotter	
Standard: FCC parts 15, 24 and 27	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: 12/18/2012

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/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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Use: General

Used for Multiple Transmitters

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 gain (Max)	EIRP		Channels Available	Channels Used	Total EIRP	
		Peak	Average		dBm	W			W	dBm
1710-1755	WCDMA		23.2	4.4	27.6	0.575	5	1	0.575	27.60
5150-5350	OFDM		16.8	5.5	22.3	0.170	7	1	0.170	22.30
Totals:								2	0.745	28.72

Power Density (S) @ 20cm (mW/cm²) 0.148
MPE Limit @ 20cm (mW/cm²) 1.0
Distance at which S > MPE Limit 7.7cm

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 gain (Max)	EIRP		Channels Available	Channels Used	Total EIRP	
		Peak	Average		dBm	W			W	dBm
1930-1990	WCDMA		20.4	4.4	24.8	0.302	5	1	0.302	24.80
5150-5350	OFDM		16.8	5.5	22.3	0.170	7	1	0.170	22.30
Totals:								2	0.472	26.74

Power Density (S) @ 20cm (mW/cm²) 0.094
MPE Limit @ 20cm (mW/cm²) 1.0
Distance at which S > MPE Limit 6.1cm

Total Power Density (S) @ 20cm (mW/cm²) 0.242