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MEMBER ACIL

Data Package
on

1000 mW COFDM Video Transmitter
Model Number: PD2-TX-1000-S

Customer Name:	DTC Communications, Inc.
Customer P.O.:	503324
Date of Data Package:	May 18, 2009
Data Package Number:	R-5174N
Test Start Date:	May 8, 2009
Test Finish Date:	May 12, 2009
Test Technician:	Matthew Seamans
Laboratory Supervisor:	Todd Hannemann
Branch Manager:	Scott Wentworth
Results Prepared By:	Jamie Ramsey

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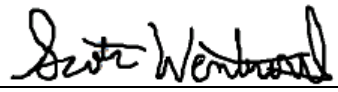
Certification and Signatures

We certify that these Test Results are true results obtained from the tests of the equipment stated, and relates only to the equipment tested. We further certify that the measurements shown in this Test Results package were made in accordance with the procedures indicated and vouch for the qualifications of all Retlif Testing Laboratories personnel taking them.

Todd Hannemann
Laboratory Supervisor
NARTE Certified ATL-0255-T



Scott Wentworth
Branch Manager
NVLAP Approved Signatory

Non-Warranty Provision
The testing services have been performed, findings obtained and reports prepared in accordance with generally accepted laboratory principles and practices. This warranty is in lieu of all others, either expressed or implied.

Non-Endorsement
This test report contains only findings and results arrived at after employing the specific test procedures and standards listed herein. It is not intended to constitute a recommendation, endorsement or certification of the product or material tested. This test report may not be used by the client to claim product endorsement by NVLAP, NIST or any agency of the U.S. Government.

Revision History

Revisions to this document are listed below; the latest revised document supersedes all previous issues of this document.

Revision	Date	Pages Affected
-	May 18, 2009	Original Release

Test Program Summary

Data Package Number:	R-5174N
Customer:	DTC Communications, Inc.
Address:	486 Amherst Street
	Nashua, NH 03063
Test Sample:	1000 mW COFDM Video Transmitter
Model Number:	PD2-TX-1000-S
Serial Number:	SB020378
Manufacturer:	DTC Communications

Test Specification:
FCC Part 2, TIA-603-C, Spurious Radiated Emissions (ERP)

Mode of Operation:
During the performance of all testing specified herein, the EUT was continuously transmitting into a 50 ohm load.

Test Method:
The following table depicts the test method that was performed on the EUT and the corresponding test results:

Testing Dates	Test Method	Test Results
5/8/09 to 5/12/09	Spurious Radiated Emissions (ERP), 30 MHz to 25 GHz	Complied

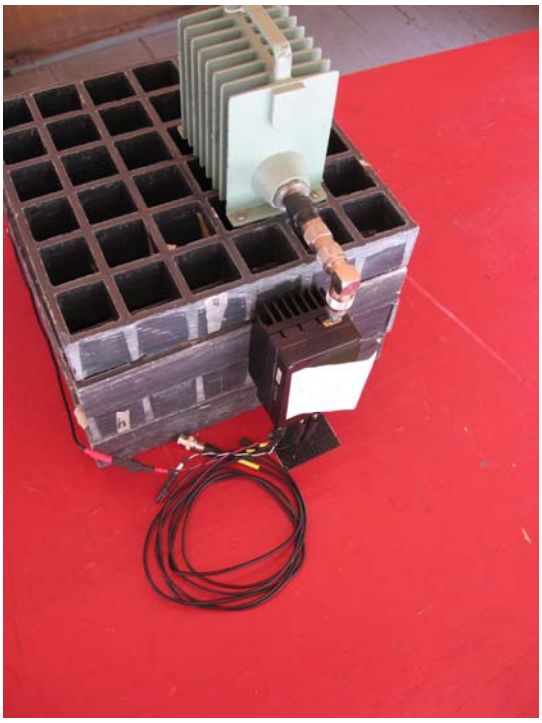
No modifications were made to the EUT during the course of this testing program in order to demonstrate compliance with the specified requirements.

Spurious Radiated Emissions (ERP)
Equipment List, Test Photographs and Test Data

Equipment List
Spurious Radiated Emissions (ERP)

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due Date
3116	Pre-Amplifier	Miteq	0.1 GHz - 18 GHz	AFS42-35	1/21/2009	1/21/2010
3117	Power Supply	B&K Precision	0-30 Vdc, 3.0 A	1630	1/31/2008	1/31/2010
3258	Double Ridge Guide	EMCO	1 - 18 GHz	3115	8/20/2008	8/20/2009
3430	Horn Antenna	MCS Corporation	18 GHz - 26.5 GHz	K-5039	1/12/2009	1/21/2010
4029B	Test Site Attenuation	Retlif	3 / 10 Meters	RNH	7/21/2008	7/21/2009
4202	Biconilog	EMCO	26 MHz - 2.7 GHz	3142	8/20/2008	8/20/2009
5053	Biconilog	EMCO	26 MHz - 3 GHz	3142C	1/27/2009	1/27/2010
5070	EMI Test Receiver	Rohde & Schwarz	20 Hz - 40 GHz	ESIB40	1/14/2009	1/14/2010
5072	Preamplifier	Miteq	18 GHz-40 GHz	JS4-18004000-30	1/10/2009	1/10/2010
530A	AM/FM Signal Generator	Marconi Instru.	10 kHz - 1.2 GHz	2023	8/21/2008	8/21/2009

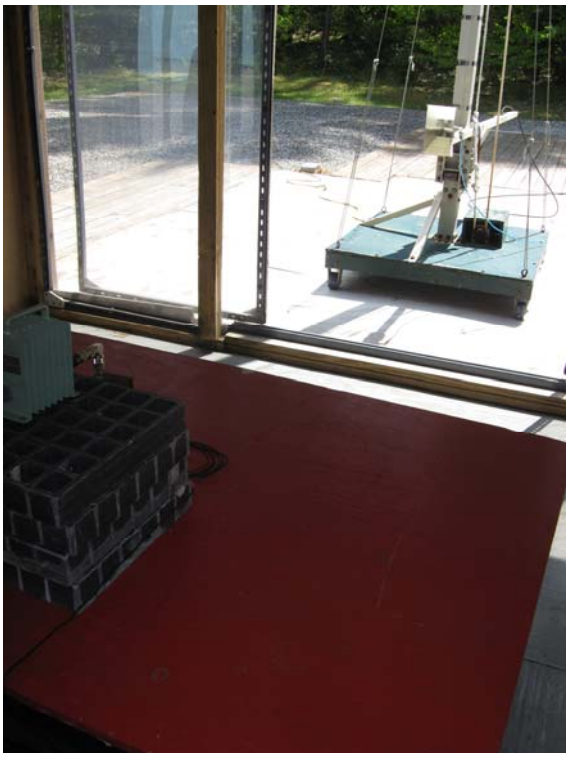
Test Photographs
Spurious Radiated Emissions (ERP)



Test Setup

Test Setup

Test Photographs
Spurious Radiated Emissions (ERP)



Double Ridge Guide, Horizontal Antenna Polarization

Double Ridge Guide, Vertical Antenna Polarization

Test Photographs
Spurious Radiated Emissions (ERP)

Test Setup, High Gain Horn, Horizontal Antenna Polarization

Test Setup, High Gain Horn, Vertical Antenna Polarization

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Spurious Radiated Emissions (ERP) 30 MHz to 25 GHz		
Customer:	DTC Communications, Inc.	**Job No:**	R-5174N
Test Sample:	1000 mW COFDM Video Transmitter		
Model No:	PD2-TX-1000-S	**Serial No:**	SB020378
Test Specification:	FCC Part 2, TIA-603-C Paragraph: 2.1053		
Operating Mode:	Continuously Transmitting into a 50 Ohm Load.		
Technician:	M. Seamans	**Date:**	5/12/2009
Notes:	Transmit Frequency: 2.451 GHz Peak Detector		

Test Frequency	Antenna Position	EUT Position	Referance Reading	Signal Gen Level	Reference Ant Gain				Corrected Reading	Spurious Limit
MHz	(H/V) - Height	Degrees\Axis	dBuV	dBm	dBd				dBm	dBm
30.00	-	-	-	-	-				-	-13.00
|	-	-	-	-	-				-	|
39.93	V-1m	0/Y	33.50	-61.50	-14.06				-75.56	|
40.25	V-1m	0/Y	32.50	-63.20	-13.82				-77.02	|
43.34	V-1m	0/X	31.10	-70.50	-11.53				-82.03	|
43.55	V-1m	0/Z	29.60	-72.20	-11.37				-83.57	|
79.10	V-1m	0/Y	32.40	-72.50	-1.74				-74.24	|
79.73	V-1m	0/Z	34.50	-70.40	-1.71				-72.11	|
79.81	V-1m	0/X	33.90	-70.70	-1.71				-72.41	|
81.10	V-1m	0/Y	35.60	-69.00	-1.70				-70.70	|
82.16	V-1m	0/Y	35.70	-69.00	-1.70				-70.70	|
83.90	V-1m	0/Y	31.20	-71.40	-1.70				-73.10	|
|	-	-	-	-	-				-	|
|	-	-	-	-	-				-	|
|	-	-	-	-	-				-	|
|	-	-	*	-	-				-	|
4902.00	-	-	*	-	-				-	|
7353.00	-	-	*	-	-				-	|
9804.00	-	-	*	-	-				-	|
12255.00	-	-	*	-	-				-	|
14706.00	-	-	*	-	-				-	|
17157.00	-	-	*	-	-				-	|
19608.00	-	-	*	-	-				-	|
22059.00	-	-	*	-	-				-	|
24510.00	-	-	*	-	-				-	|
|	-	-	-	-	-				-	|
25000.00	-	-	-	-	-				-	-13.00

EUT Emissions observed throughout the given frequency spectrum were recorded & evaluated.

* These harmonic frequencies were not observed above the noise floor of the test equipment which was a minimum of 10dB below the limit.

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Spurious Radiated Emissions (ERP) 30 MHz to 25 GHz		
Customer:	DTC Communications, Inc.	**Job No:**	R-5174N
Test Sample:	1000 mW COFDM Video Transmitter		
Model No:	PD2-TX-1000-S	**Serial No:**	SB020378
Test Specification:	FCC Part 2, TIA-603-C Paragraph: 2.1053		
Operating Mode:	Continuously Transmitting into a 50 Ohm Load.		
Technician:	M. Seamans	**Date:**	5/12/2009
Notes:	Transmit Frequency: 2.466 GHz Peak Detector		

Test Frequency	Antenna Position	EUT Position	Referance Reading	Signal Gen Level	Reference Ant Gain				Corrected Reading	Spurious Limit
MHz	(H/V) - Height	Degrees\Axis	dBuV	dBm	dBd				dBm	dBm
30.00	-	-	-	-	-				-	-13.00
|	-	-	-	-	-				-	|
40.05	V-1m	0/X	28.70	-74.30	-13.97				-88.27	|
40.08	V-1m	0/Z	30.30	-69.30	-13.94				-83.24	|
40.13	V-1m	0/Y	29.80	-73.80	-13.91				-87.71	|
42.22	V-1m	0/X	30.20	-66.90	-12.35				-79.25	|
43.02	V-1m	0/Z	30.40	-68.60	-11.77				-80.37	|
43.38	V-1m	0/Y	28.70	-74.80	-11.50				-86.30	|
79.65	V-1m	0/X	34.20	-69.10	-1.71				-70.81	|
79.89	V-1m	0/Z	33.20	-70.90	-1.70				-72.60	|
80.21	V-1m	0/Y	34.30	-69.30	-1.70				-71.00	|
80.61	V-1m	0/X	35.40	-68.60	-1.70				-70.30	|
80.69	V-1m	0/Z	34.10	-69.10	-1.70				-70.80	|
258.82	H-1m	0/Y	30.00	-75.60	3.74				-71.86	|
269.37	H-1m	0/Y	35.80	-69.20	3.91				-65.29	|
|	-	-	*	-	-				-	|
4932.00	-	-	*	-	-				-	|
7398.00	-	-	*	-	-				-	|
9864.00	-	-	*	-	-				-	|
12330.00	-	-	*	-	-				-	|
14796.00	-	-	*	-	-				-	|
17262.00	-	-	*	-	-				-	|
19728.00	-	-	*	-	-				-	|
22194.00	-	-	*	-	-				-	|
24660.00	-	-	*	-	-				-	|
|	-	-	-	-	-				-	|
25000.00	-	-	-	-	-				-	-13.00

EUT Emissions observed throughout the given frequency spectrum were recorded & evaluated.

* These harmonic frequencies were not observed above the noise floor of the test equipment which was a minimum of 10dB below the limit.

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Spurious Radiated Emissions (ERP) 30 MHz to 25 GHz		
Customer:	DTC Communications, Inc.	**Job No:**	R-5174N
Test Sample:	1000 mW COFDM Video Transmitter		
Model No:	PD2-TX-1000-S	**Serial No:**	SB020378
Test Specification:	FCC Part 2, TIA-603-C Paragraph: 2.1053		
Operating Mode:	Continuously Transmitting into a 50 Ohm Load.		
Technician:	M. Seamans	**Date:**	5/12/2009
Notes:	Transmit Frequency: 2.4825 GHz Peak Detector		

Test Frequency	Antenna Position	EUT Position	Referance Reading	Signal Gen Level	Reference Ant Gain				Corrected Reading	Spurious Limit
MHz	(H/V) - Height	Degrees\Axis	dBuV	dBm	dBd				dBm	dBm
30.00	-	-	-	-	-				-	-13.00
|	-	-	-	-	-				-	|
40.29	V-1m	0/Y	29.00	-73.10	-13.79				-86.89	|
40.53	V-1m	0/Z	30.80	-69.40	-13.61				-83.01	|
40.81	V-1m	0/X	29.90	-71.10	-13.40				-84.50	|
42.52	V-1m	0/Y	28.40	-74.00	-12.14				-86.14	|
42.95	V-1m	0/Z	32.10	-67.20	-11.82				-79.02	|
79.73	V-1m	0/Y	34.70	-68.70	-1.71				-70.41	|
80.21	V-1m	0/X	33.60	-70.80	-1.70				-72.50	|
80.53	V-1m	0/Z	33.00	-71.00	-1.70				-72.70	|
83.49	V-1m	0/Y	30.70	-75.20	-1.70				-76.90	|
|	-	-	-	-	-				-	|
|	-	-	-	-	-				-	|
|	-	-	-	-	-				-	|
4965.00	-	-	*	-	-				-	|
7447.50	-	-	*	-	-				-	|
9930.00	-	-	*	-	-				-	|
12412.50	-	-	*	-	-				-	|
14895.00	-	-	*	-	-				-	|
17377.50	-	-	*	-	-				-	|
19860.00	-	-	*	-	-				-	|
22342.50	-	-	*	-	-				-	|
24825.00	-	-	*	-	-				-	|
|	-	-	-	-	-				-	|
25000.00	-	-	-	-	-				-	-13.00

EUT Emissions observed throughout the given frequency spectrum were recorded & evaluated.

* These harmonic frequencies were not observed above the noise floor of the test equipment which was a minimum of 10dB below the limit.