Retlif Testing Laboratories

101 New Boston Road, Goffstown, NH 03045
603-497-4600 - Fax: 603-497-5281

CORPORATE OFFICE
795 Marconi Avenue
Ronkonkoma, NY 11779
631-737-1500 Fax 631-737-1497
(A NY Corporation)

BRANCH LABORATORIES
3131 Detwiler Road
Harleysville, PA 19438
215-256-4133 Fax 215-256-4130

WASHINGTON
REGULATORY OFFICE
703-533-1614 Fax 703-533-1612

MEMBER ACIL

Data Package
on

Digital Video Transmitter
Model Number: PD2-TX-1000-S

Customer Name:	DTC Communications
Customer P.O.:	D000001082
Date of Data Package:	December 29, 2009
Data Package Number:	R-5265N
Test Start Date:	December 22, 2009
Test Finish Date:	December 28, 2009
Test Technician:	Matthew Seamans
Laboratory Supervisor:	Todd Hannemann
Branch Manager:	Scott Wentworth
Results Prepared By:	Jamie Ramsey

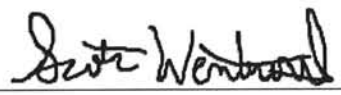
Table of Contents

Revision History 4
Test Program Summary 5
Spurious Radiated Emissions (ERP) Report of Measurements 6

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
-	December 29, 2009	Original Release

Test Program Summary

Data Package Number:	R-5265N
Customer:	DTC Communications, Inc.
Address:	486 Amherst Street
	Nashua, NH 03063
Test Sample:	Digital Video Transmitter
Part Number:	N/A
Model Number:	PD2-TX-1000-S
Serial Number:	SB030464
Manufacturer:	DTC Communications, Inc.

Test Specification:
FCC Part 2.1053/TIA-603-C, Land Mobile FM or PM-Communications Equipment-Measurement and Performance Standards

Mode of Operation:
During the performance of all testing specified herein, the EUT was transmitting a signal 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 Date(s)	Test Method	Test Results
12/22/09-12/23/09, 12/28/09	Spurious Radiated Emission (ERP), 30 MHz to 26.5 GHz	Complied

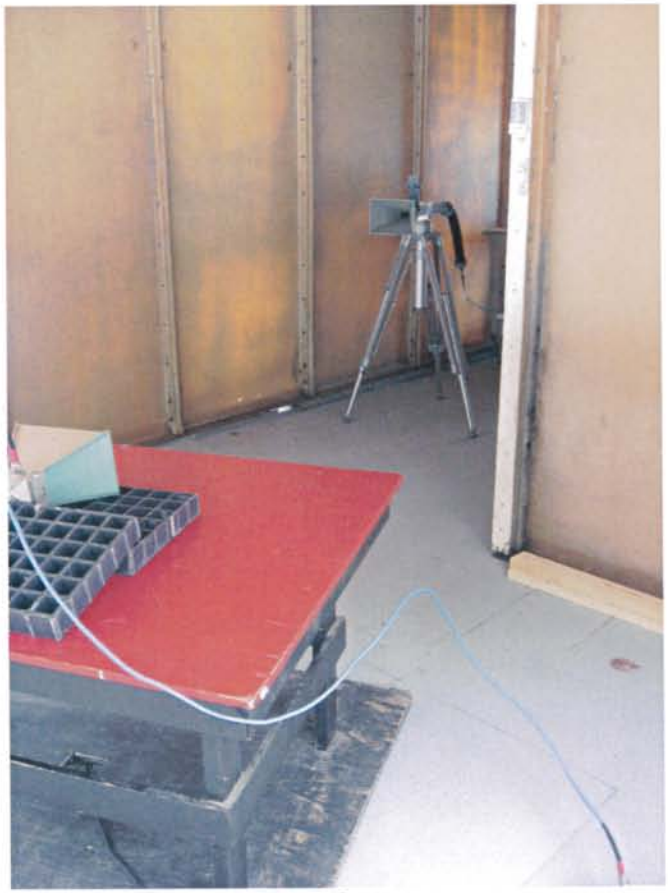
No modifications were made to the EUT during the course of this testing program in order to demonstrate compliance with the specified requirements.

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

Equipment List

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	1/31/2009	1/31/2010
3430	Horn Antenna	MCS Corporation	18 GHz - 26.5 GHz	K-5039	1/12/2009	1/12/2010
4003A	Double Ridge Guide	EMCO	1 - 18 GHz	3105	8/5/2009	8/5/2010
4202	Biconilog	EMCO	26 MHz - 2.7 GHz	3142	8/19/2009	8/19/2010
4984A	High Gain Horn	Microlab/FXR	1.0 - 1.7 GHz	L638A	1/21/2009	1/21/2010
4984B	High Gain Horn	Microlab/FXR	1.7 - 2.6 GHz	R638A	1/21/2009	1/21/2010
4984C	High Gain Horn	Microlab/FXR	2.6 - 3.95 GHz	S638A	1/21/2009	1/21/2010
4984D	High Gain Horn	Microlab/FXR	3.95 - 5.85 GHz	H638A	1/21/2009	1/21/2010
4984E	High Gain Horn	Microlab/FXR	5.8 - 8.2 GHz	C638A	1/21/2009	1/21/2010
4984F	High Gain Horn	Microlab/FXR	8.2 - 12.4 GHz	X638A	1/21/2009	1/21/2010
4984G	High Gain Horn	Microlab/FXR	12.4 GHz - 18 GHz	Y638A	1/21/2009	1/21/2010
5053	Biconilog	EMCO	26 MHz - 3 GHz	3142C	1/27/2009	1/27/2010
5072	Preamplifier	Miteq	18 GHz-40 GHz	JS4-18004000-30	10/1/2009	10/1/2010
5107	Signal Generator	Agilent	100 kHz - 20 GHz	N5183A	3/6/2009	3/6/2010

Test Photograph(s)
Spurious Radiated Emissions (ERP)



Test Setup

Test Photograph(s)
Spurious Radiated Emissions (ERP)

Horizontal Antenna Polarization, 30 to 1000 MHz

Vertical Antenna Polarization, 30 to 1000 MHz

Test Photograph(s)
Spurious Radiated Emissions (ERP)

Horizontal Antenna Polarization, 1 to 1.7 GHz

Vertical Antenna Polarization, 1 to 1.7 GHz

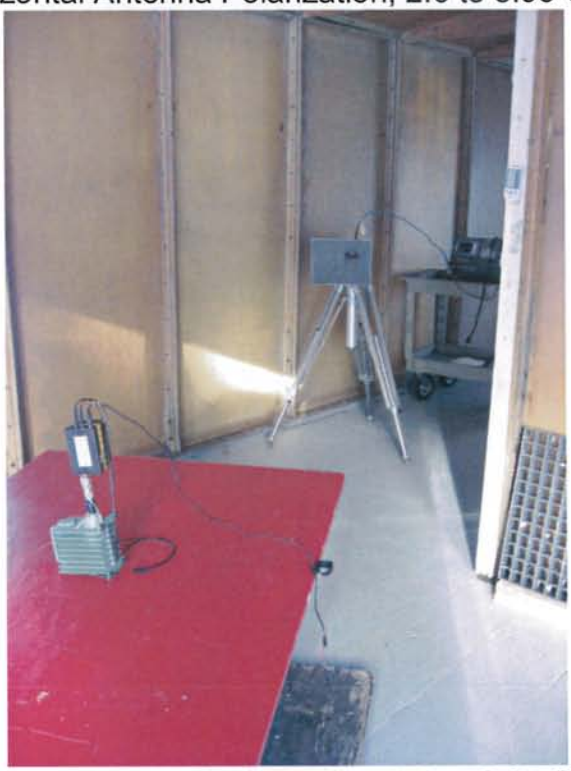
Test Photograph(s)
Spurious Radiated Emissions (ERP)

Horizontal Antenna Polarization, 1.7 to 2.6 GHz

Vertical Antenna Polarization, 1.7 to 2.6 GHz

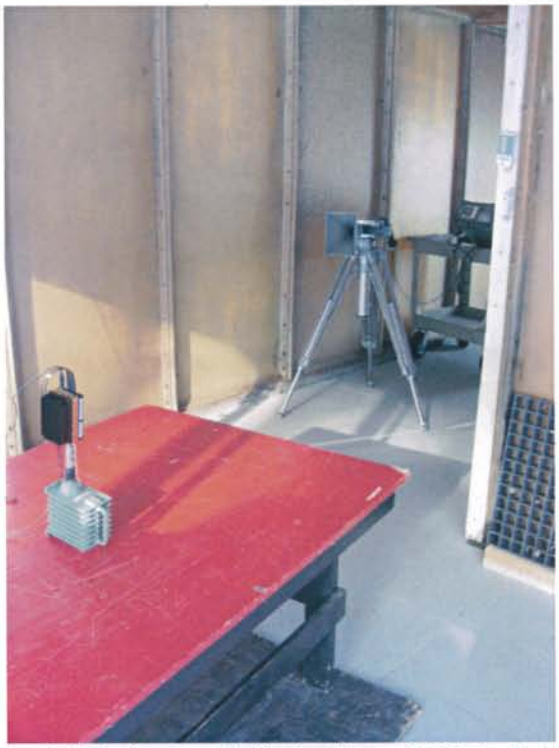
Test Photograph(s)
Spurious Radiated Emissions (ERP)

Horizontal Antenna Polarization, 2.6 to 3.95 GHz

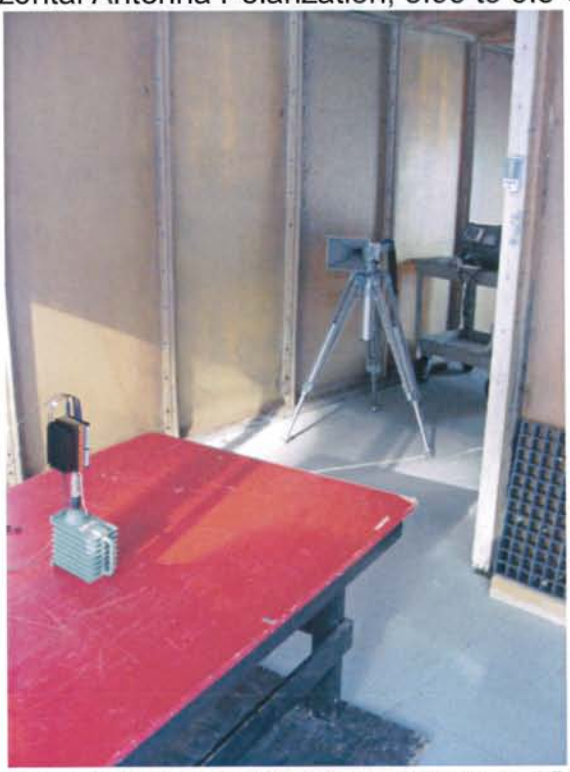


Vertical Antenna Polarization, 2.6 to 3.95 GHz

Test Photograph(s)
Spurious Radiated Emissions (ERP)



Horizontal Antenna Polarization, 3.95 to 5.8 GHz



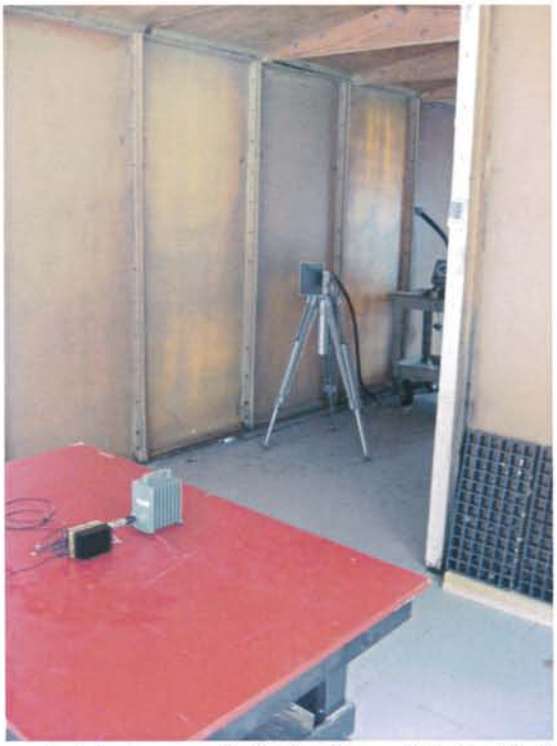
Vertical Antenna Polarization, 3.95 to 5.8GHz

Test Photograph(s)
Spurious Radiated Emissions (ERP)

Horizontal Antenna Polarization, 5.8 to 8.2 GHz

Vertical Antenna Polarization, 5.8 to 8.2 GHz

Test Photograph(s)
Spurious Radiated Emissions (ERP)

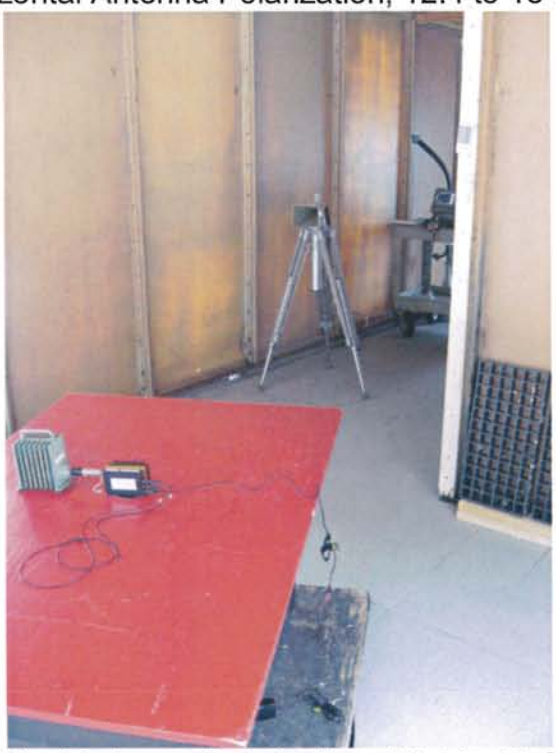


Horizontal Antenna Polarization, 8.2 to 12.4 GHz

Vertical Antenna Polarization, 8.2 to 12.4 GHz

Test Photograph(s)
Spurious Radiated Emissions (ERP)

Horizontal Antenna Polarization, 12.4 to 18 GHz



Vertical Antenna Polarization, 12.4 to 18 GHz

Test Photograph(s)
Spurious Radiated Emissions (ERP)

Horizontal Antenna Polarization, 18 to 26.5 GHz

Vertical Antenna Polarization, 18 to 26.5 GHz

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method: Spurious Radiated Emissions (ERP) 30 MHz to 26.5 GHz

Customer: DTC Communications, Inc. **Job No:** R-5265N

Test Sample: Digital Video Transmitter

Model No: PD2-TX-1000-S **Serial No:** SB030464

Test Specification: FCC Part 2, TIA-603-C
Paragraph: 2.1053

Operating Mode: Continuously Transmitting into a 50 Ohm Load.

Technician: M. Seamans **Date:** 12/28/2009

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
|	-	-	-	-	-				-	|
4965.00	-	-	*	-	-				-	|
7447.50	-	-	*	-	-				-	|
9930.00	-	-	*	-	-				-	|
12412.50	-	-	*	-	-				-	|
14895.00	-	-	*	-	-				-	|
17377.50	-	-	*	-	-				-	|
19860.00	-	-	*	-	-				-	|
22342.50	-	-	*	-	-				-	|
24825.00	-	-	*	-	-				-	|
|	-	-	-	-	-				-	|
|	-	-	-	-	-				-	|
|	-	-	-	-	-				-	|
26500.00	-	-	-	-	-				-	-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 26.5 GHz		
Customer:	DTC Communications, Inc.	**Job No:**	R-5265N
Test Sample:	Digital Video Transmitter		
Model No:	PD2-TX-1000-S	**Serial No:**	SB030464
Test Specification:	FCC Part 2, TIA-603-C Paragraph: 2.1053		
Operating Mode:	Continuously Transmitting into a 50 Ohm Load.		
Technician:	M. Seamans	**Date:**	12/28/2009
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
|	-	-	-	-	-				-	|
4932.00	-	-	*	-	-				-	|
7398.00	-	-	*	-	-				-	|
9864.00	-	-	*	-	-				-	|
12330.00	-	-	*	-	-				-	|
14796.00	-	-	*	-	-				-	|
17262.00	-	-	*	-	-				-	|
19728.00	-	-	*	-	-				-	|
22194.00	-	-	*	-	-				-	|
24660.00	-	-	*	-	-				-	|
|	-	-	-	-	-				-	|
|	-	-	-	-	-				-	|
|	-	-	-	-	-				-	|
26500.00	-	-	-	-	-				-	-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 26.5 GHz		
Customer:	DTC Communications, Inc.	**Job No:**	R-5265N
Test Sample:	Digital Video Transmitter		
Model No:	PD2-TX-1000-S	**Serial No:**	SB030464
Test Specification:	FCC Part 2, TIA-603-C Paragraph: 2.1053		
Operating Mode:	Continuously Transmitting into a 50 Ohm Load.		
Technician:	M. Seamans	**Date:**	12/28/2009
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
|	-	-	-	-	-				-	|
4902.00	-	-	*	-	-				-	|
7353.00	-	-	*	-	-				-	|
9804.00	-	-	*	-	-				-	|
12255.00	-	-	*	-	-				-	|
14706.00	-	-	*	-	-				-	|
17157.00	-	-	*	-	-				-	|
19608.00	-	-	*	-	-				-	|
22059.00	-	-	*	-	-				-	|
24510.00	-	-	*	-	-				-	|
|	-	-	-	-	-				-	|
|	-	-	-	-	-				-	|
|	-	-	-	-	-				-	|
26500.00	-	-	-	-	-				-	-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.