

Retlif Testing Laboratories

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MEMBER
ACIL

April 5, 2006

DTC Communications
486 Amherst Street
Nashua, NH 03063

Attention: Mr. James Carrington

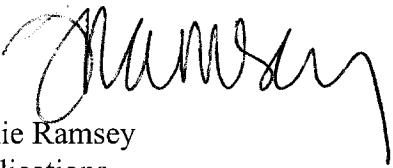
Enclosed you will find Data Package R-4535N-1 covering the testing of the Digital Video Transmitter, Model Number: PDTX1000S, Serial Number: N/A to the requirements of FCC Part 2&90. This testing was performed against Purchase Order Number: 56495.

Test setup photographs, equipment lists, and test data are included for each test method performed on the above test sample.

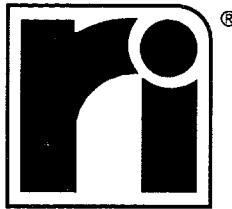
Thank you for this opportunity to be of service to you. Should you have any questions concerning this data or the actual testing of your unit, please do not hesitate to contact us.

Sincerely,

RETLIF TESTING LABORATORIES


Jamie Ramsey
Publications

Enc. (as stated)



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DATA PACKAGE FOR

DTC COMMUNICATIONS, INC. DIGITAL VIDEO TRANSMITTER MODEL NUMBER: PDTX1000S SERIAL NUMBER: N/A

Customer Name: DTC Communications, Inc.

Customer P.O.: 56995

Data Package No.: R-4535N-1

Package Date: April 3, 2006

Test Start Date: March 23, 2006

Test Finish Date: April 3, 2006

Test Technician(s): Todd Hannemann/Matthew Seamans

Test Engineer: Scott Wentworth

Data Prepared By: Jamie Ramsey

Supervisor: Scott Wentworth

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**TEST SETUP PHOTOGRAPHS
SPURIOUS RADIATED EMISSIONS**



Retlif Testing Laboratories

DATA PACKAGE No. R-4535N-1

**TEST SETUP PHOTOGRAPHS
SPURIOUS RADIATED EMISSIONS**



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**TEST SETUP PHOTOGRAPHS
SPURIOUS RADIATED EMISSIONS**



Retlif Testing Laboratories

DATA PACKAGE No. R-4535N-1

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Spurious Radiated Emissions (ERP) 30 MHz to 25 GHz								
Customer:	DTC Communications			Job No:	R-4535N-1				
Test Sample:	Digital Video Transmitter								
Model No:	PDTX1000S			Serial No:	N/A				
Test Specification:	FCC Part 2 Paragraph: 2.1053								
Operating Mode:	Transmitting Digital Signal								
Technician:	M. Seamans			Date:	03/24/2006				
Notes:	Transmit Frequency: 2.38 GHz Peak Detector								
Test Frequency	Antenna/EUT Position	Reference Reading	Signal Gen Level	Reference Ant Gain				Corrected Reading	Spurious Limit
MHz	Polarity/Axis	dBuV	dBm	dBd				dBm	dBm
30.00	-	-	-	-				-	-13.00
4761.50	H/Y	41.85	-43.27	6.14				-37.13	1
7139.77	V/Z	32.32	-41.62	6.81				-34.81	1
9521.40	V/X	28.09	-51.90	6.50				-45.40	1
11899.19	V/X	29.71	-51.92	8.67				-43.25	1
14279.00	-	*	-	-				-	1
16659.00	-	*	-	-				-	1
19039.00	-	*	-	-				-	1
21419.00	-	*	-	-				-	1
23799.00	-	*	-	-				-	1
25000.00	-	-	-	-				-	-13.00
EUT Emissions observed throughout the given frequency spectrum were recorded & evaluated.									
<p>* These harmonic frequencies were not observed above the noise floor of the test equipment which was a minimum of 10dB below the limit.</p>									

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Spurious Radiated Emissions (ERP) 30 MHz to 25 GHz								
Customer:	DTC Communications			Job No:	R-4535N-1				
Test Sample:	Digital Video Transmitter								
Model No:	PDTX1000S			Serial No:	N/A				
Test Specification:	FCC Part 2 Paragraph: 2.1053								
Operating Mode:	Transmitting Digital Signal								
Technician:	M. Seamans			Date:	03/24/2006				
Notes:	Transmit Frequency: 2.43 GHz Peak Detector								
Test Frequency	Antenna/EUT Position	Reference Reading	Signal Gen Level	Reference Ant Gain				Corrected Reading	Spurious Limit
MHz	Polarity/Axis	dBuV	dBm	dBd				dBm	dBm
30.00	-	-	-	-				-	-13.00
4859.94	H/X	41.75	-45.41	6.14				-39.27	I
7289.90	H/Y	35.69	-45.38	6.81				-38.57	I
9720.45	H/X	26.27	-52.62	6.50				-46.12	I
12150.45	-	*	-	-				-	I
14580.00	-	*	-	-				-	I
17010.00	-	*	-	-				-	I
19440.00	-	*	-	-				-	I
21870.00	-	*	-	-				-	I
24300.00	-	*	-	-				-	I
I	-	-	-	-				-	I
25000.00	-	-	-	-				-	-13.00
EUT Emissions observed throughout the given frequency spectrum were recorded & evaluated.									
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Data Sheet 2 of 3

R-4535N-1

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Spurious Radiated Emissions (ERP) 30 MHz to 25 GHz								
Customer:	DTC Communications			Job No:		R-4535N-1			
Test Sample:	Digital Video Transmitter								
Model No:	PDTX1000S			Serial No:		N/A			
Test Specification:	FCC Part 2 Paragraph: 2.1053								
Operating Mode:	Transmitting Digital Signal								
Technician:	M. Seamans			Date:		03/24/2006			
Notes:	Transmit Frequency: 2.48 GHz Peak Detector								
Test Frequency	Antenna/EUT Position	Reference Reading	Signal Gen Level	Reference Ant Gain				Corrected Reading	Spurious Limit
MHz	Polarity/Axis	dBuV	dBm	dBd				dBm	dBm
30.00	-	-	-	-				-	-13.00
1	-	-	-	-				-	1
4960.40	H/Y	35.45	-47.70	6.14				-41.56	1
7439.54	H/Y	38.09	-36.10	6.81				-29.29	1
9918.34	H/X	29.88	-47.50	6.50				-41.00	1
12398.00	-	*	-	-				-	1
14878.00	-	*	-	-				-	1
17358.00	-	*	-	-				-	1
19838.00	-	*	-	-				-	1
22318.00	-	*	-	-				-	1
24798.00	-	*	-	-				-	1
1	-	-	-	-				-	1
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.									

EQUIPMENT LIST
SPURIOUS RADIATED EMISSIONS

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due
3258	Double Ridge Guide	EMCO	1 - 18 GHz	3115	8/21/2005	8/21/2006
4003A	Double Ridge Guide	EMCO	1 GHz - 12.4 GHz	3105	10/25/2005	10/25/2006
4202	Biconilog	EMCO	26 MHz - 2 GHz	3142	12/14/2005	12/14/2006
4984A	High Gain Horn	Microlab/FXR	1.0 - 1.7 GHz	L638A	1/25/2006	1/25/2007
4984B	High Gain Horn	Microlab/FXR	1.7 - 2.6 GHz	R638A	1/25/2006	1/25/2007
4984C	High Gain Horn	Microlab/FXR	2.6 - 3.95 GHz	S638A	1/25/2006	1/25/2007
4984D	High Gain Horn	Microlab/FXR	3.95 - 5.85 GHz	H638A	1/25/2006	1/25/2007
4984E	High Gain Horn	Microlab/FXR	5.8 - 8.2 GHz	C638A	1/25/2006	1/25/2007
4984F	High Gain Horn	Microlab/FXR	8.2 - 12.4 GHz	X638A	1/25/2006	1/25/2007
713	EMI Test Receiver	Rohde & Schwarz	20 Hz - 26.5 GHz	ESI26	3/22/2005	4/22/2006
R417	Preamplifier	Hewlett Packard	1-26.5 GHz	AT/8449B	5/2/2005	5/2/2007



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DATA PACKAGE No. R-4535N-1