

Retlif Testing Laboratories

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

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



March 15, 2005

DTC Communications, Inc.
486 Amherst Street
Nashua, NH 03063

Attention: Mr. James Carrington

Dear Sir:

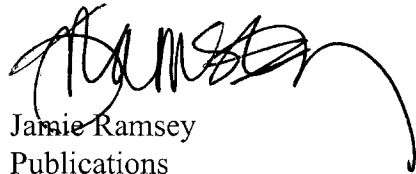
Enclosed you will find Data Package R-4392N covering the testing of the Audio Transmitter, Model Number: T-2350, Serial Number: N/A to the requirements of FCC Part 2&90, Spurious Radiated Emissions and Transient Frequency Behavior. This testing was performed against Purchase Order Number 55522.

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.
AUDIO TRANSMITTER
MODEL NUMBER: T-2350
SERIAL NUMBER: N/A**

Customer Name: DTC Communications, Inc.

Customer P.O.: 55522

Data Package No.: R-4392N

Package Date: March 14, 2005

Test Start Date: February 10, 2005

Test Finish Date: March 2, 2005

Test Technician(s): Tim Firkowski

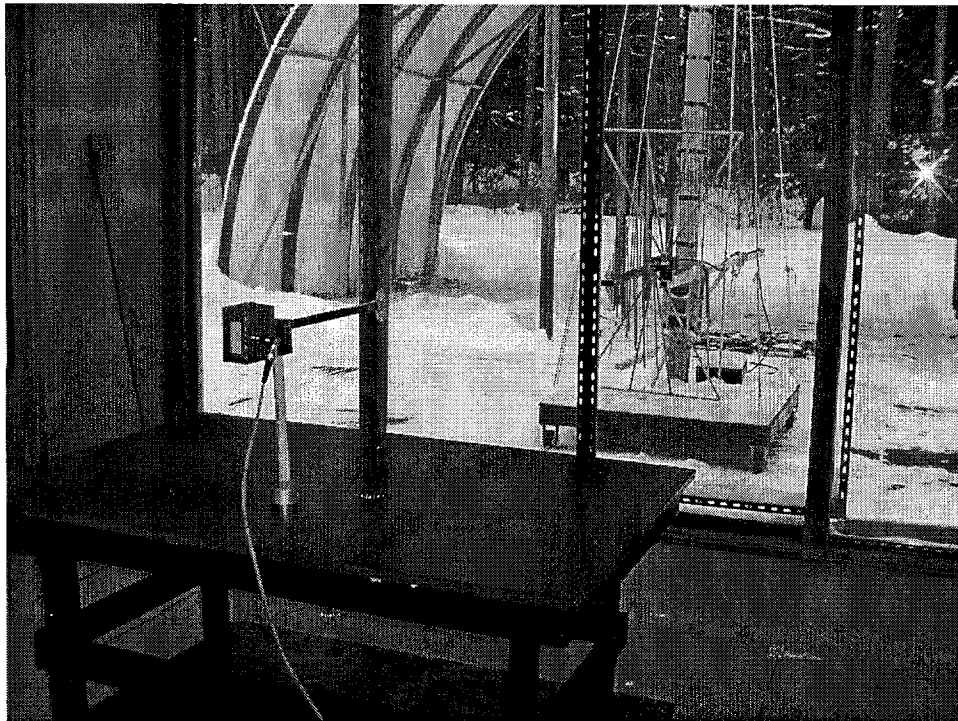
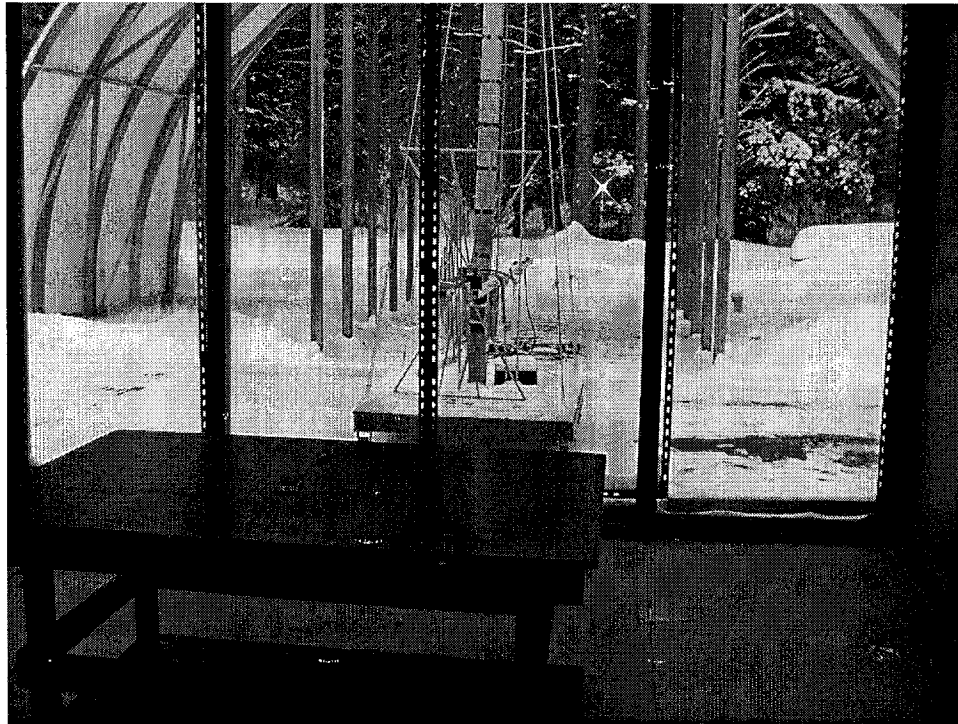
Test Engineer: Scott Wentworth

Data Prepared By: Jamie Ramsey

Supervisor: Scott Wentworth

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**TEST SETUP PHOTOGRAPHS
SPURIOUS RADIATED EMISSIONS (ERP)**



Retlif Testing Laboratories

DATA PACKAGE No. R-4392N

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Spurious Radiated Emissions (ERP) 30 MHz to 1.625 GHz		
Customer:	DTC Communications, Inc.	Job No:	R-4392N
Test Sample:	Audio Transmitter		
Model No:	T-2350	Serial No:	n/a
Test Specification:	FCC Part 2 Paragraph: 2.1053		
Operating Mode:	Transmitting Audio Modulated Signal Narrow		
Technician:	T. Firkowski	Date:	3/2/2005
Notes:	Transmit Frequency: 162.5 MHz Limit per 90.210 (d) Peak Detector		

[illegible]

EUT emissions observed throughout the given frequency spectrum were recorded & evaluated. Emission levels closest to the limit are listed on this data sheet.

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:

Spurious Radiated Emissions (ERP) 30 MHz to 1.625 GHz

Customer:

DTC Communications, Inc.

Job No:

R-4392N

Test Sample:

Audio Transmitter

Model No:

T-2350

Serial No:

n/a

Test Specification:

FCC Part 2

Paragraph: 2.1053

Operating Mode:

Transmitting Audio Modulated Signal Wide

Technician:

T. Firkowski

Date:

3/2/2005

Notes:

Transmit Frequency: 162.5 MHz Limit per 90.210 (d)
 Peak Detector

[illegible]

EUT emissions observed throughout the given frequency spectrum were recorded & evaluated. Emission levels closest to the limit are listed on this data sheet.

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Spurious Radiated Emissions (ERP) 30 MHz to 1.625 GHz		
Customer:	DTC Communications, Inc.	Job No:	R-4392N
Test Sample:	Audio Transmitter		
Model No:	T-2350	Serial No:	n/a
Test Specification:	FCC Part 2 Paragraph: 2.1053		
Operating Mode:	Transmitting Digital Signal		
Technician:	T. Firkowski	Date:	3/2/2005
Notes:	Transmit Frequency: 162.5 MHz Limit per 90.210 (d) Peak Detector		

[illegible]

EUT emissions observed throughout the given frequency spectrum were recorded & evaluated. Emission levels closest to the limit are listed on this data sheet.

EQUIPMENT LIST

SPURIOUS RADIATED EMISSIONS

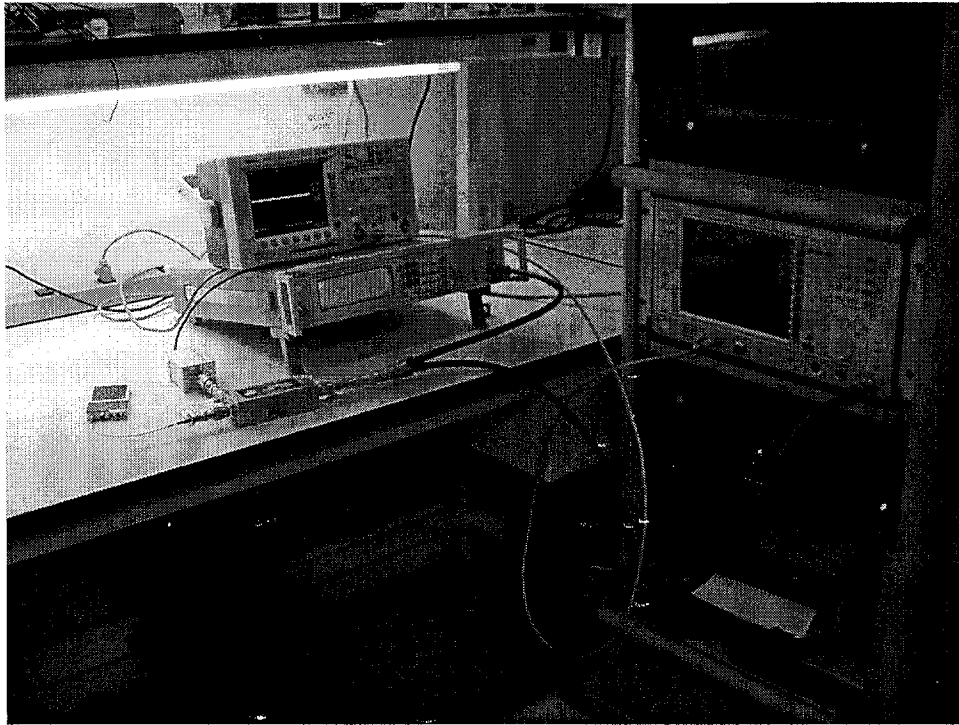
EN	Type	Manufacturer	Description	Model No.	Cal Date	Due
3001	Tuned Dipole Antenna	Empire Devices	200 MHz - 400 MHz	T2	8/12/2003	8/12/2006
3002	Tuned Dipole Antenna	Empire Devices	400 MHz - 1 GHz	T3	8/12/2003	8/12/2006
4202	Biconilog	EMCO	26 MHz - 2 GHz	3142	12/13/2004	12/13/2005
5046	AM/FM Signal Generator	Marconi Instru.	10 kHz - 1.2 GHz	2023A	9/16/2004	9/16/2005
713	EMI Test Receiver	Rohde & Schwarz	20 Hz - 26.5 GHz	ESL26	10/6/2004	10/6/2005



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DATA PACKAGE No. R-4392N

**TEST SETUP PHOTOGRAPH
TRANSIENT FREQUENCY BEHAVIOR**



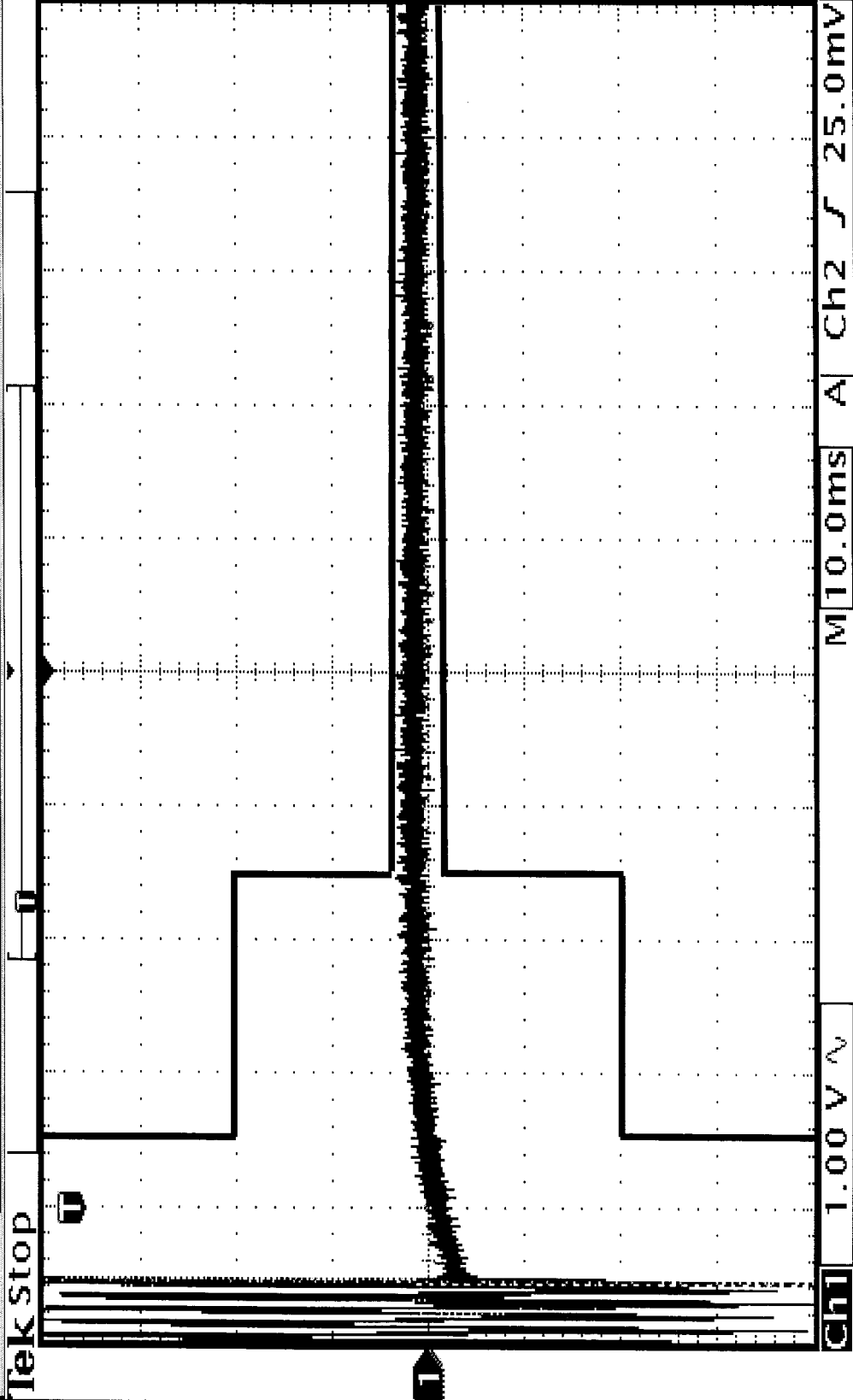
Retlif Testing Laboratories

DATA PACKAGE No. R-4392N

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:		Transient Frequency Behavior (On)	
Customer:	DTC Communications, Inc.	Test Sample:	Audio Transmitter
Model No:	T-2350	Serial No:	n/a
Test Specification:	FCC Part 90	Paragraph:	90.214
Operating Mode:	Transmitting CW Signal @ 162.5 MHz		
Notes:			
Job No:	R-4392N		
Technician:	T. Firkowski		
Date:	2/28/2005		



40.0000ms

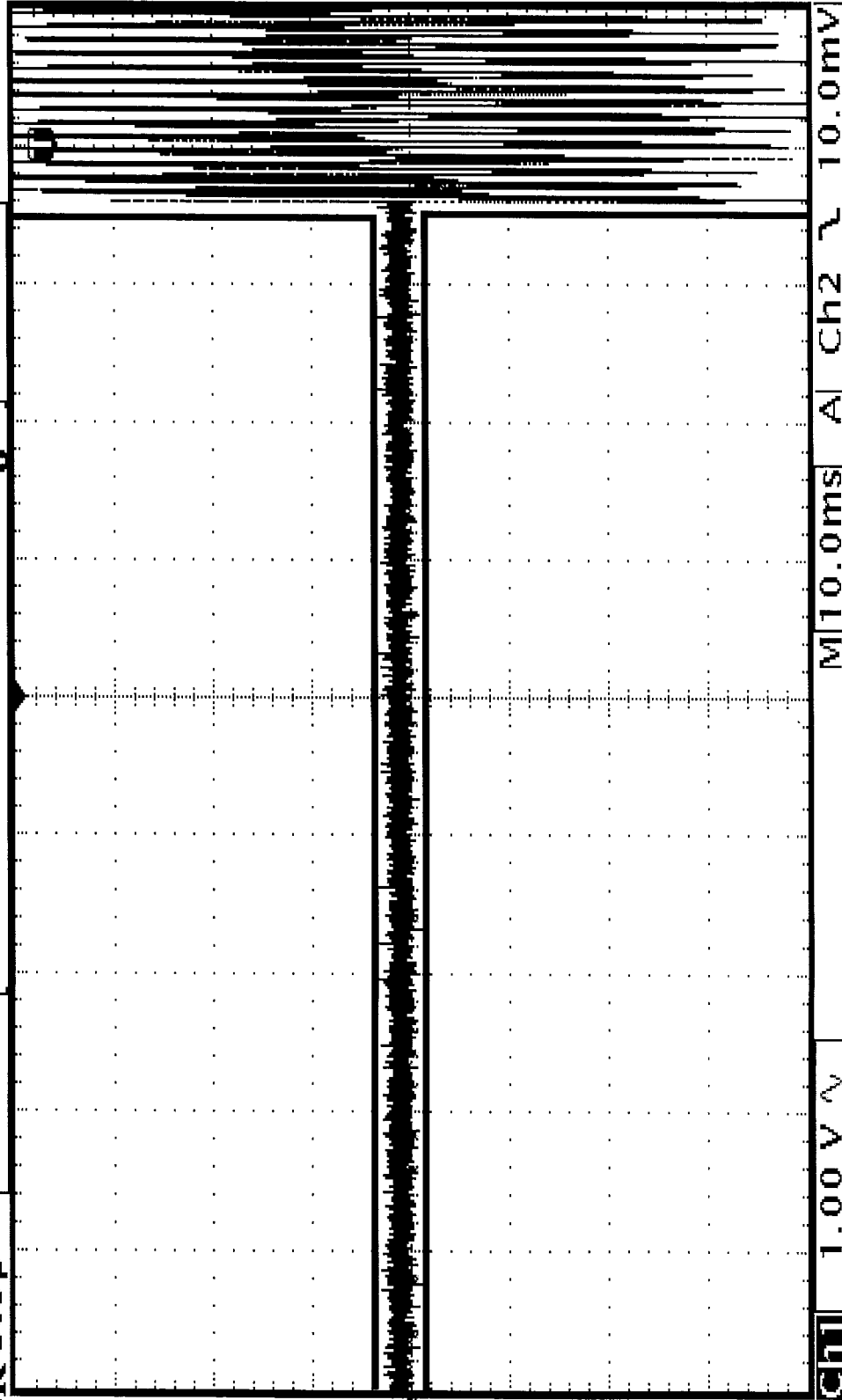
27 Feb 2005
11:06:34

RETILF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:		Transient Frequency Behavior (Off)	
Customer:	DTC Communications, Inc.	Test Sample:	Audio Transmitter
Model No:	T-2350	Serial No:	n/a
Test Specification:	FCC Part 90	Paragraph:	90.214
Operating Mode:	Transmitting CW Signal @ 162.5 MHz		
Notes:			
Job No:	R-4392N		
Technician:	T. Firkowski		
Date:	2/28/2005		

Tek Stop



→ -40.4000ms

27 Feb 2005
11:09:05

EQUIPMENT LIST

TRANSIENT FREQUENCY BEHAVIOR

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due
5027	RF Detector	Pasternack	100 kHz - 1 GHz	PE8000-50	4/6/2004	4/6/2005
5040	30 DB Atten. (50 ohm)	Fluke	DC - 12.4 GHz	Y9306	2/8/2005	2/8/2006
5046	AM/FM Signal Generator	Marconi Instru.	10 kHz - 1.2 GHz	2023A	9/16/2004	9/16/2005
532	High Power Dir Coupler	Werlatone Inc.	.01 - 1000 MHz	C2630	1/27/2005	1/27/2006
713	EMI Test Receiver	Rohde & Schwarz	20 Hz - 26.5 GHz	ESI26	10/6/2004	10/6/2005
R101	Oscilloscope	Tektronix	500 MHz	TDS 3052B	6/17/2004	6/23/2005



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