

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



June 26, 2006

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

Attention: Mr. James Carrington

Dear James:

Enclosed you will find Data Package R-4637N-1 covering the testing of the TAC COM 2005 VHF Repeater, Model: TAC COM 2005, Serial Number: N/A to the requirements of FCC Part 2, TIA/EIA-603, Spurious Radiated Emissions (ERP), Transient Frequency Behavior and Radiated Emissions. This testing was performed against Purchase Order Number 75925.

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

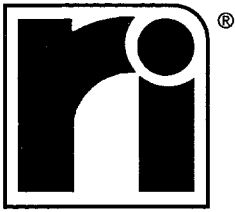
Thank you for this opportunity to be of service to you. Should you have any questions concerning this data or the actual testing of your unit, please do not hesitate to contact us.

Sincerely,

RETLIF TESTING LABORATORIES

Jamie Ramsey
Publications

Enc. (as stated)



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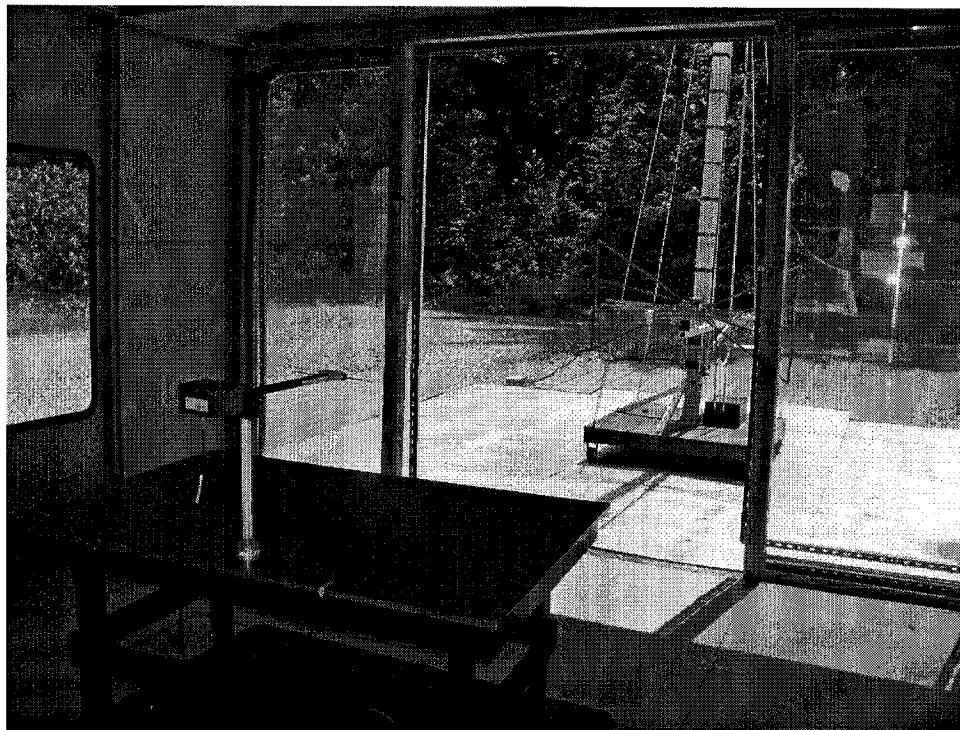
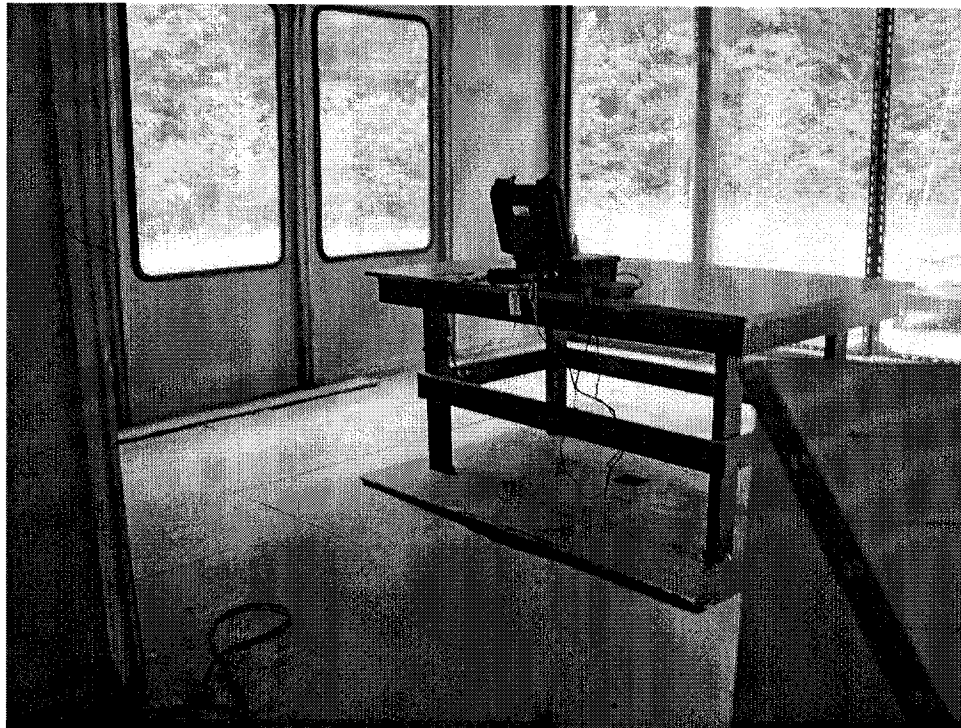


DATA PACKAGE
FOR
DTC COMMUNICATIONS, INC.
TAC COM 2005 VHF REPEATER
MODEL: TAC COM 2005
SERIAL NUMBER: N/A

Customer Name: DTC Communications, Inc.
Customer P.O.: 75925
Data Package No.: R-4637N-1
Package Date: June 26, 2006
Test Start Date: May 31, 2006
Test Finish Date: June 24, 2006
Test Technician(s): Todd Hannemann/Matthew Seamans
Test Engineer: Scott Wentworth
Data Prepared By: Jamie Ramsey
Supervisor: Scott Wentworth

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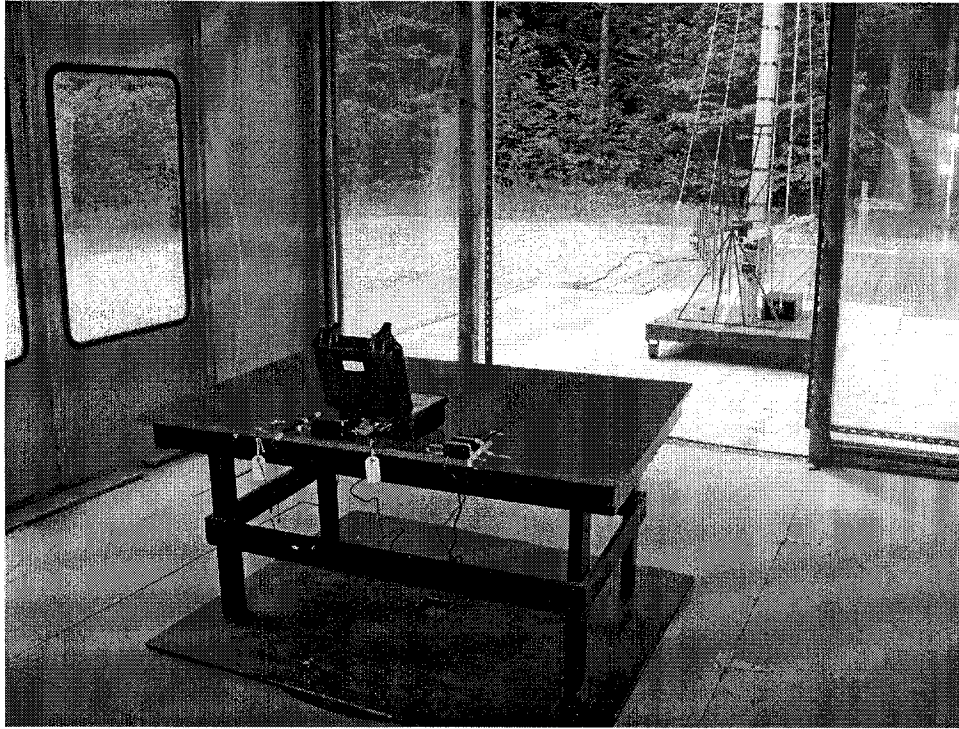
**TEST SETUP PHOTOGRAPHS
SPURIOUS RADIATED EMISSIONS (ERP)**




Retlif Testing Laboratories

DATA PACKAGE No. R-4637N-1

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



	Retlif Testing Laboratories
	DATA PACKAGE No. R-4637N-1

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Spurious Radiated Emissions (ERP) 30 MHz to 1.75GHz		
Customer:	DTC Communications, Inc.	Job No.:	R-4637N-1
Test Sample:	TAC COM 2005 VHF Repeater		
Model No.:	TAC COM 2005	Serial No.:	N/A
Test Specification:	FCC Part 2, TIA/EIA-603 Paragraph: 2.1053		
Operating Mode:	Transmitting Signal		
Technician:	M. Seamans	Date:	June 2, 2006
Notes:	Transmit Frequency: 150 MHz Narrow Band 12.5 kHz Limit Per: 90.210 (d) Detector: Peak		

Test Frequency	Antenna Position	Reference Reading	Signal Gen Level	Reference Ant Gain				Corrected Reading	Spurious Limit
MHz	(H/V)	dBm	dBm	dBd				dBm	dBm
30.00	-	-	-	-				-	-20.0
	-	-	-	-				-	-
	-	-	-	-				-	-
	-	-	-	-				-	-
300.00	H	-64.6	-56.40	2.15				-54.25	-
450.00	-	-	-	-				-	-
600.00	-	-	-	-				-	-
750.00	-	-	-	-				-	-
900.00	-	-	-	-				-	-
1050.00	-	-	-	-				-	-
1200.00	-	-	-	-				-	-
1350.00	-	-	-	-				-	-
1500.00	-	-	-	-				-	-
1650.00	-	-	-	-				-	-
	-	-	-	-				-	-
	-	-	-	-				-	-
1750.00	-	-	-	-				-	-20.0

Harmonic frequencies with measurements not listed were not observed above the noise floor of the test equipment which was a minimum of 10 dB below the limit.

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Spurious Radiated Emissions (ERP) 30 MHz to 1.75GHz		
Customer:	DTC Communications, Inc.	Job No.:	R-4637N-1
Test Sample:	TAC COM 2005 VHF Repeater		
Model No.:	TAC COM 2005	Serial No.:	N/A
Test Specification:	FCC Part 2, TIA/EIA-603 Paragraph: 2.1053		
Operating Mode:	Transmitting Signal		
Technician:	M. Seamans	Date:	June 2, 2006
Notes:	Transmit Frequency: 150 MHz Wide Band 25 kHz Limit Per: 90.210c Detector: Peak		

Test Frequency	Antenna Position	Reference Reading	Signal Gen Level	Reference Ant Gain				Corrected Reading	Spurious Limit
MHz	(H/V)	dBm	dBm	dBd				dBm	dBm
30.00	-	-	-	-				-	-13.0
	-	-	-	-				-	-
	-	-	-	-				-	-
300.00	H	-65.9	-59.30	2.15				-57.15	-
450.00	-	-	-	-				-	-
600.00	-	-	-	-				-	-
750.00	-	-	-	-				-	-
900.00	-	-	-	-				-	-
1050.00	-	-	-	-				-	-
1200.00	-	-	-	-				-	-
1350.00	-	-	-	-				-	-
1500.00	-	-	-	-				-	-
1650.00	-	-	-	-				-	-
	-	-	-	-				-	-
1750.00	-	-	-	-				-	-13.0

Harmonic frequencies with measurements not listed were not observed above the noise floor of the test equipment which was a minimum of 10 dB below the limit.

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Spurious Raditaed Emissions (ERP) 30 MHz to 1.75GHz		
Customer	DTC Communications, Inc.	Job No.	R-4637N-1
Test Sample	TAC COM 2005 VHF Repeater		
Model No.	TAC COM 2005	Serial No.	N/A
Test Specification:	FCC Part 2, TIA/EIA-603 Paragraph: 2.1053		
Operating Mode:	Transmitting Signal		
Technician:	M. Seamans	<input checked="" type="checkbox"/> Date:	June 2, 2006
Notes:	Transmit Frequency: 162.5 MHz Narrow Band 12.5 kHz Limit Per: 90.210 (d) Detector: Peak		

Test Frequency	Antenna Position	Reference Reading	Signal Gen Level	Reference Ant Gain				Corrected Reading	Spurious Limit
MHz	(H/V)	dBm	dBm	dBd				dBm	dBm
30.00	-	-	-	-				-	-20.0
	-	-	-	-				-	-
325.00	H	-62.8	-49.90	2.15				-47.75	-
487.50	-	-	-	-				-	-
650.00	-	-	-	-				-	-
812.50	-	-	-	-				-	-
975.00	-	-	-	-				-	-
1137.50	-	-	-	-				-	-
1300.00	-	-	-	-				-	-
1462.00	-	-	-	-				-	-
1625.00	-	-	-	-				-	-
	-	-	-	-				-	-
1750.00	-	-	-	-				-	-20.0

Harmonic frequencies with measurements not listed were not observed above the noise floor of the test equipment which was a minimum of 10 dB below the limit.

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method: Spurious Raditaed Emissions (ERP) 30 MHz to 1.75GHz

Customer: DTC Communications, Inc. **Job No.:** R-4637N-1

Test Sample: TAC COM 2005 VHF Repeater

Model No.: TAC COM 2005 **Serial No.:** N/A

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

Operating Mode: Transmitting Signal

Technician: M. Seamans **Date:** June 2, 2006

Notes: Transmit Frequency: 174 MHz Narrow Band 12.5 kHz Limit Per: 90.210(d)
Detector: Peak

Test Frequency	Antenna Position	Reference Reading	Signal Gen Level	Reference Ant Gain				Corrected Reading	Spurious Limit
MHz	(H/V)	dBm	dBm	dBd				dBm	dBm
30.00	-	-	-	-				-	-20.0
	-	-	-	-				-	-
	-	-	-	-				-	-
348.00	H	-62.9	-49.90	2.15				-47.75	-
522.00	H	-53.9	-43.50	2.15				-41.35	-
696.00	-	-	-	-				-	-
870.00	-	-	-	-				-	-
1044.00	-	-	-	-				-	-
1218.00	-	-	-	-				-	-
1392.00	-	-	-	-				-	-
1566.00	-	-	-	-				-	-
1740.00	-	-	-	-				-	-
	-	-	-	-				-	-
1750.00	-	-	-	-				-	-20.0

Harmonic frequencies with measurements not listed were not observed above the noise floor of the test equipment which was a minimum of 10 dB below the limit.

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET


Test Method: Spurious Radiaed Emissions (ERP) 30 MHz to 1.75GHz
Customer: DTC Communications, Inc. **Job No.:** R-4637N-1
Test Sample: TAC COM 2005 VHF Repeater
Model No.: TAC COM 2005 **Serial No.:** N/A
Test Specification: FCC Part 2, TIA/EIA-603
Operating Mode: Transmitting Signal
Technician: M. Seamans **Date:** June 2, 2006
Notes: Transmit Frequency: 174 MHz Wide Band 25 kHz Limit Per: 90.210c
Detector: Peak

Test Frequency	Antenna Position	Reference Reading	Signal Gen Level	Reference Ant Gain				Corrected Reading	Spurious Limit
MHz	(H/V)	dBm	dBm	dBd				dBm	dBm
30.00	-	-	-	-				-	-13.0
	-	-	-	-				-	-
	-	-	-	-				-	-
348.00	H	-66.7	-55.00	2.15				-52.85	-
522.00	H	-53.4	-43.20	2.15				-41.05	-
696.00	-	-	-	-				-	-
870.00	-	-	-	-				-	-
1044.00	-	-	-	-				-	-
1218.00	-	-	-	-				-	-
1392.00	-	-	-	-				-	-
1566.00	-	-	-	-				-	-
1740.00	-	-	-	-				-	-
	-	-	-	-				-	-
1750.00	-	-	-	-				-	-13.0

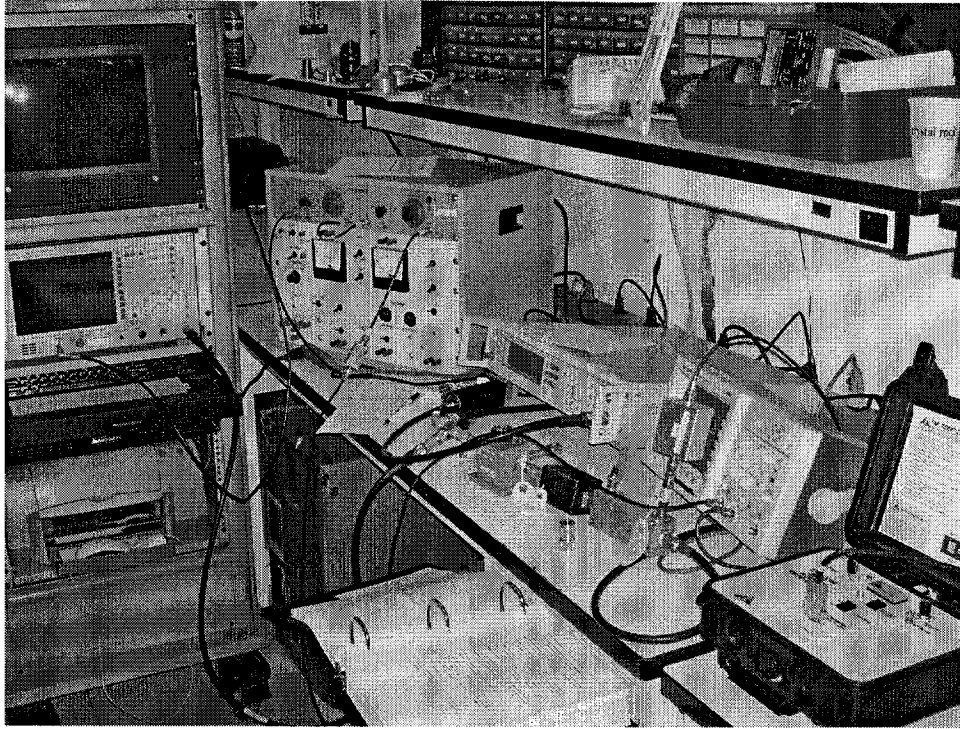
Harmonic frequencies with measurements not listed were not observed above the noise floor of the test equipment which was a minimum of 10 dB below the limit.

**EQUIPMENT LIST
SPURIOUS RADIATED EMISSIONS (ERP)**

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
3258	Double Ridge Guide	EMCO	1 - 18 GHz	3115	8/21/2005	8/21/2006
4029B	Test Site Attenuation	Retlif	3 / 10 Meters	RNH	5/24/2006	5/24/2007
5030D	10 DB Atten. (50 ohm)	Narda	DC - 12.4 GHz	757C-10	2/14/2006	2/14/2007
5053	Biconilog	EMCO	26 MHz - 3000 MHz	3142C	2/7/2006	2/7/2007
530A	AM/FM Signal Generator	Marconi Instru.	10 kHz - 1.2 GHz	2023	8/21/2005	8/21/2006
713	EMI Test Receiver	Rohde & Schwarz	20 Hz - 26.5 GHz	ESI26	4/3/2006	4/3/2007

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	DATA PACKAGE No. R-4637N-1

**TEST SETUP PHOTOGRAPH
TRANSIENT FREQUENCY BEHAVIOR**



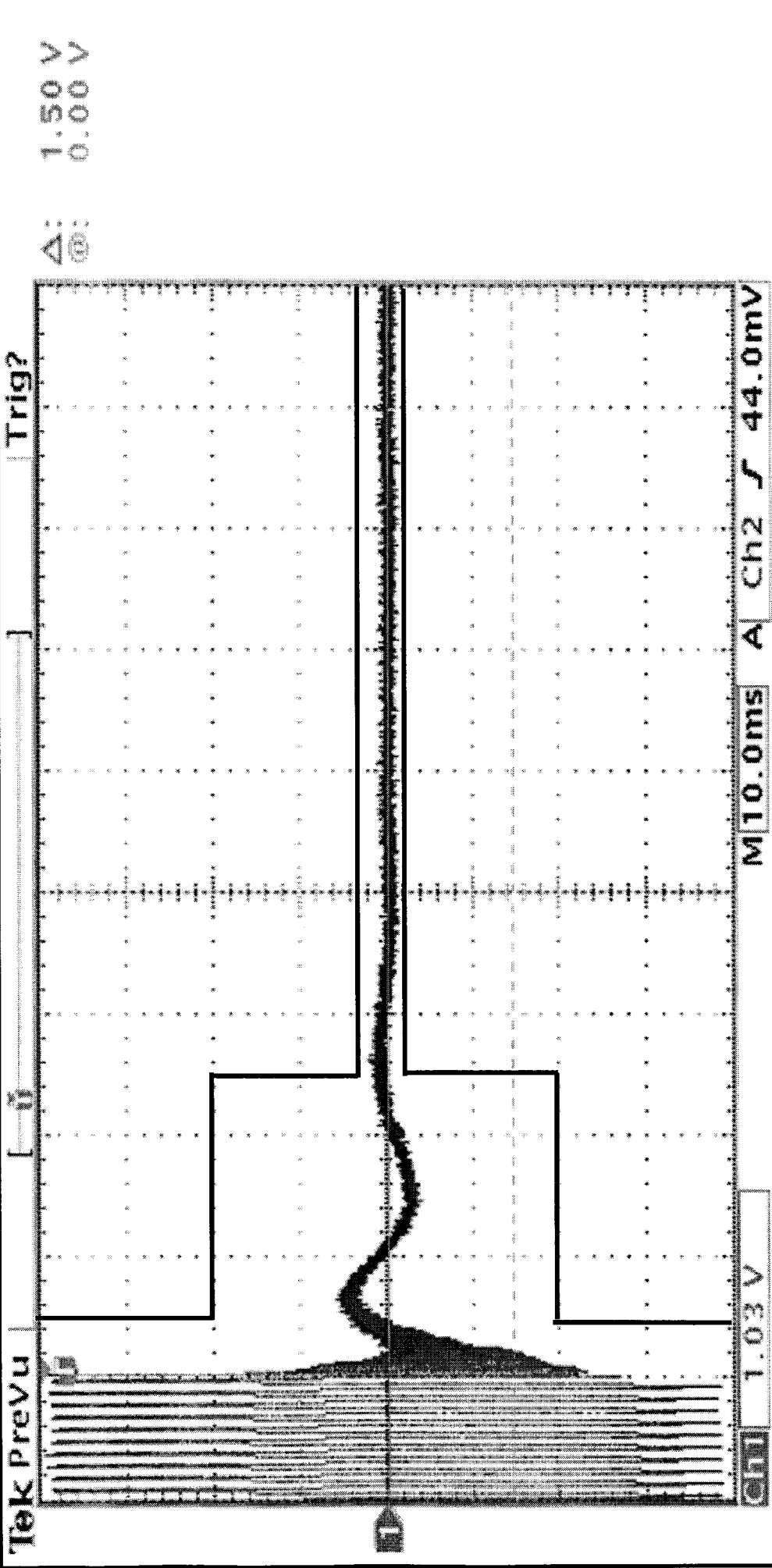
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DATA PACKAGE No. R-4637N-1

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Transient Frequency Behavior			
Customer:	DTC Communications, Inc.	Test Sample:	TAC COM 2005 VHF Repeater	
Model No:	TAC COM 2005	Serial No:	N/A	
Test Specification:	FCC Part 90	Paragraph:	90.214	
Operating Mode:	Transmitter Turn On			
Notes:				
Job No:	R-4637N-1		Technician:	T. Hannemann
Date:	June 23, 2006			

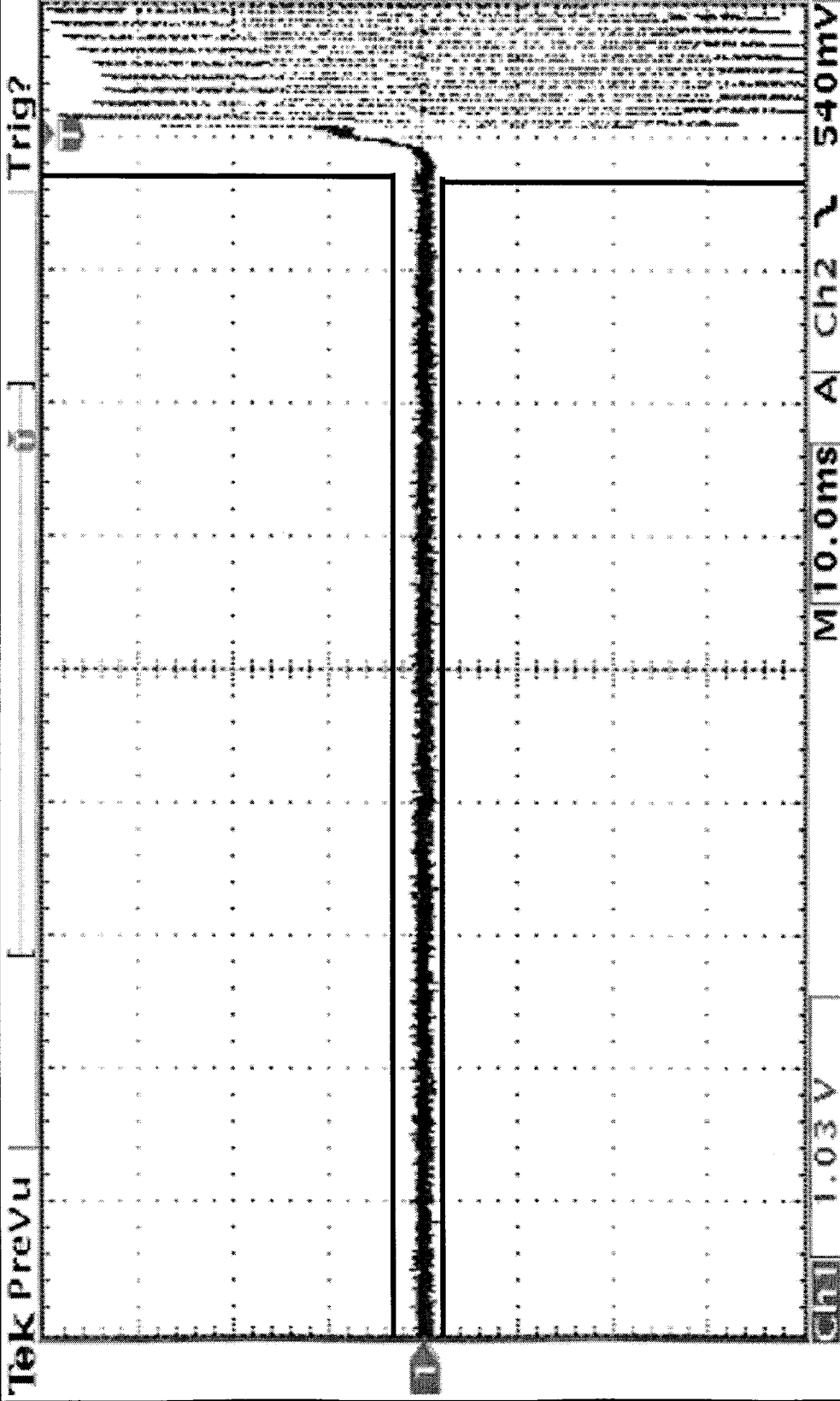


23 Jun 2005
10:19:22

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Transient Frequency Behavior	Job No:	R-4637N-1
Customer:	DTC Communications, Inc.	Test Sample:	TAC COM 2005 VHF Repeater
Model No:	TAC COM 2005	Serial No:	N/A
Test Specification:	FCC Part 90	Paragraph:	90.214
Operating Mode:	Transmitter Turn Off	Technician:	T. Hannemann
Notes:		Date:	June 23, 2006



23 Jun 2005
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EQUIPMENT LIST

TRANSIENT FREQUENCY BEHAVIOR

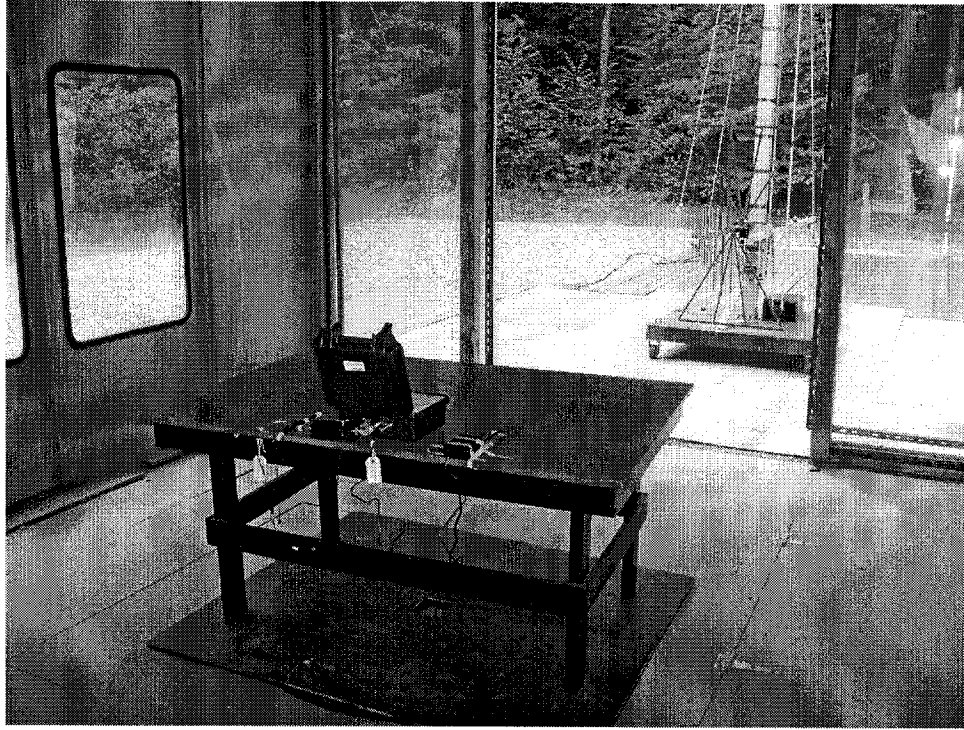
EN	Type	Manufacturer	Description	Model No.	Cal Date	Due
3212	Series Capacitor	Solar Electronics	500 kHz - 400 MHz	7525-1	01/16/2006	01/16/2007
3448	0-11 DB Stepattenuator	Midwest Microwave	DC - 18 GHz	1092	07/22/2005	07/22/2006
4905	LS/Bandpass Filter	Retlif	N/A	RI-68-2WLS	01/18/2006	01/18/2007
4935A	6.0 dB Attenuator	JFW Inc.	DC - 4 GHz	50FH-006-50N	02/13/2006	02/13/2007
5027	RF Detector	Pasternack	100 kHz - 1 GHz	PE8000-50	04/12/2006	04/12/2007
5036	3 DB Atten. (50 ohm)	Fluke	DC - 12.4 GHz	Y9302	02/07/2006	02/07/2007
5046	AM/FM Signal Generator	Marconi Instru.	10 kHz - 1.2 GHz	2023A	09/16/2005	09/16/2006
532	High Power Dir Coupler	Werlatone Inc.	.01 - 1000 MHz	C2630	01/31/2006	01/31/2007
731	Log Periodic Antenna	Electro-Metrics	200 - 1000 MHz	LPA-30	03/17/2006	03/17/2007
R101	Oscilloscope	Tektronix	500 MHz	TDS3052B	05/09/2006	05/09/2007
	2 Port Combiner					
	1 MHz Low Pass Filter					



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DATA PACKAGE No. R-4637N-1

**TEST SETUP PHOTOGRAPH
RADIATED EMISSIONS**



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DATA PACKAGE No. R-4637N-1

RETLIF TESTING LABORATORIES

EMISSIONS DATA SHEET

Test Method:	Radiated Emissions 30 MHz to 1 GHz		
Customer	DTC Communications, Inc.	Job No.	R-4637N-1
Test Sample	TAC COM 2005 VHF Repeater		
Model No.	TAC COM 2005	Serial No.	N/A
Test Specification:	FCC Part 15 Subpart B Class B Paragraph: 15.109 (a)		
Operating Mode:	Transmitting Signal		
Technician:	T. Hannemann	Date:	June 9, 2006
Notes:	Test Distance: 3 Meters Detector: Quasi-Peak		

Test Frequency	Antenna Position	Turntable Position	Uncorrected Reading	Correction Factor	Corrected Reading				Limit at 3 Meters
MHz	(H/V) - Height	Degrees	dBuV	dB	dBuV/m				dBuV/m
30.00	-	-	-	-	-				40.0
	-	-	-	-	-				
88.00	-	-	-	-	-				40.0
88.00	-	-	-	-	-				43.5
	-	-	-	-	-				
216.00	-	-	-	-	-				43.5
216.00	-	-	-	-	-				46.0
	-	-	-	-	-				
960.00	-	-	-	-	-				46.0
960.00	-	-	-	-	-				54.0
	-	-	-	-	-				
1000.00	-	-	-	-	-				54.0

No EUT emissions within 20 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum.

EQUIPMENT LIST
RADIATED EMISSIONS

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due
4029B	Test Site Attenuation	Retlif	3 / 10 Meters	RNH	5/24/2006	5/24/2007
5053	Biconilog	EMCO	26 MHz - 3000 MHz	3142C	2/7/2006	2/7/2007
713	EMI Test Receiver	Rohde & Schwarz	20 Hz - 26.5 GHz	ESI26	4/3/2006	4/3/2007



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DATA PACKAGE No. R-4637N-1