



# 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



Data Package  
on

Covert Wireless Audio Transmitter/Recorder  
Model Number: T-2765-KF

**Customer Name:** Cobham Surveillance/DTC Products

**Customer P.O.:** D000001232

**Date of Data Package:** March 9, 2011

**Data Package Number:** R-5428N

**Test Start Date:** January 10, 2011

**Test Finish Date:** March 3, 2011

**Test Technician:** M. Seamans

**Laboratory Supervisor:** T. Hannemann

**Branch Manager:** S. Wentworth

**Results Prepared By:** J. Ramsey

Our letters, procedures and reports are for the exclusive use of the customer to whom they are addressed and their communication or the use of the name of Retlif Testing Laboratories must receive our prior written approval. Our letters, procedures and reports apply only to the sample tested and are not necessarily indicative of the qualities of apparently identical or similar products. The letters, procedures and reports and the name of Retlif Testing Laboratories or insignia are not to be used under any circumstances in advertising to the public. This report shall not be reproduced, except in full, without the prior written approval of Retlif Testing Laboratories. The only official copy of this document is the signed original provided by Retlif Testing Laboratories.

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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.



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Todd Hannemann  
Laboratory Supervisor  
NARTE Certified ATL-0255-T



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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.



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## Revision History

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

<b>Revision</b>	<b>Date</b>	<b>Pages Affected</b>
-	March 9, 2011	Original Release



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## Test Program Summary

**Data Package Number:** R-5428N  
**Customer:** Cobham Surveillance/DTC Products  
**Address:** 486 Amherst Street  
Nashua, NH 03063  
**Test Sample:** Covert Wireless Audio Transmitter/Recorder  
**Model Number:** T-2765-KF  
**Manufacturer:** Cobham Surveillance/DTC Products

### Test Specification:

FCC Part 2, TIA-603-C, Fundamental and Spurious Emissions (ERP)  
FCC Part 90, Transmitter Frequency Behavior

### Mode of Operation:

During the performance of all testing specified herein, the Covert Wireless Audio Transmitter/Recorder was continuously transmitting a RF signal.

### 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
January 10, 2011	Spurious Radiated Emissions (ERP), 30 MHz to 2 GHz	Complied
February 14, 2011	Transient Frequency Behavior	Complied
March 3, 2011	Fundamental Radiated Emissions (ERP)	Complied

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



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



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## Equipment List Spurious Radiated Emissions (ERP)

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
3001	EMPIRE DEVICES	TUNED DIPOLE ANTENNA	200 MHz - 400 MHz	T2	12/3/2010	12/3/2013
3002	EMPIRE DEVICES	TUNED DIPOLE ANTENNA	400 MHz - 1 GHz	T3	12/3/2010	12/3/2013
4029	RETLIF	OPEN AREA TEST SITE	3 / 10 Meters	RNH	8/21/2009	8/21/2012
4029B	RETLIF	TEST SITE ATTENUATION	3 / 10 Meters	RNH	6/25/2010	6/25/2011
5046	MARCONI	SIGNAL GENERATOR	10 kHz - 1.2 GHz	2023A	5/28/2010	5/28/2011
5053	EMCO	BICONILOG ANTENNA	26 MHz - 3 GHz	3142C	4/21/2010	4/21/2011
5070	ROHDE & SCHWARZ	EMI TEST RECEIVER	20 Hz - 40 GHz	ESIB40	1/14/2009	3/14/2011



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**Test Photographs  
Spurious Radiated Emissions (ERP)**



Test Setup



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**Test Photographs  
Spurious Radiated Emissions (ERP)**



Horizontal Antenna Polarization



Vertical Antenna Polarization



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**Transient Frequency Behavior  
Equipment List, Test Photographs and Test Data**



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## Equipment List Transient Frequency Behavior

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
3128B	LUCAS WEINSCHL	20DB ATTENUATOR	DC - 18 GHz	2	1/11/2011	1/11/2012
5026A	NARDA	20DB ATTENUATOR	DC - 11 GHz	768-20	1/11/2011	1/11/2012
5027	PASTERNAK	RF DETECTOR	100 kHz - 1 GHz	PE8000-50	Inspect Before Use	
5027A	RETLIF	LOW PASS FILTER	1 MHz	LP1MHZ	10/25/2010	10/25/2011
5067	TEKTRONIX	OSCILLOSCOPE	350 MHz	DPO4032	1/11/2011	1/11/2012
5070	ROHDE & SCHWARZ	EMI TEST RECEIVER	20 Hz - 40 GHz	ESIB40	1/20/2011	1/20/2012
5097	BOONTON	POWER METER		4232A	8/12/2010	8/12/2011
530A	MARCONI	SIGNAL GENERATOR	10 kHz - 1.2 GHz	2023	10/5/2010	10/5/2011
532	WERLATONE	HIGH POWER DIR COUPLER	.01 - 1000 MHz	C2630	10/21/2010	10/21/2011

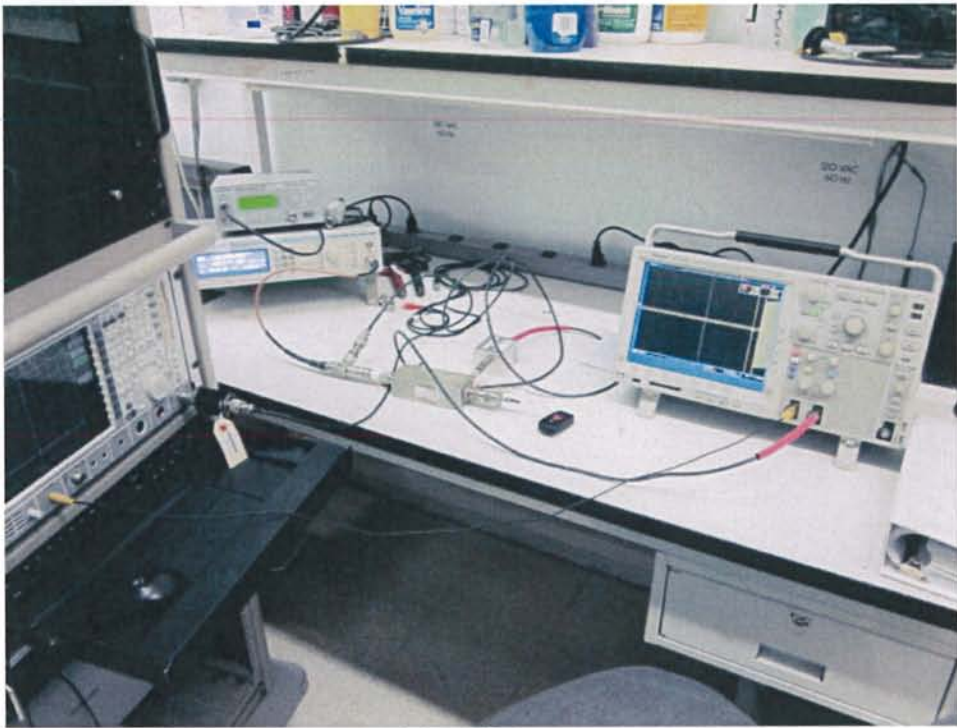


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**Test Photographs  
Transient Frequency Behavior**



Test Setup



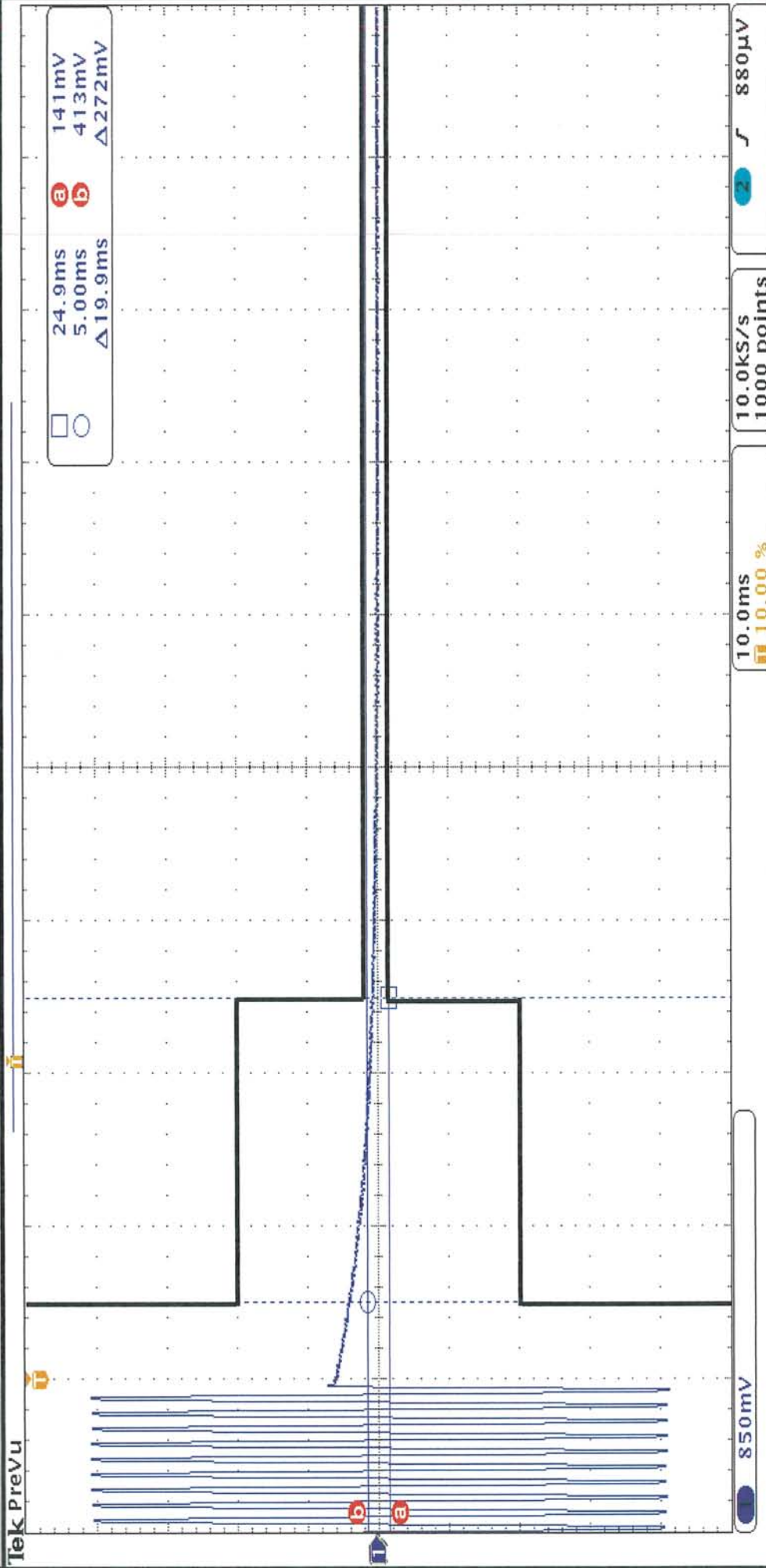
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# RETLIF TESTING LABORATORIES

## EMISSIONS DATA SHEET

Test Method:	Transient Frequency Behavior (On)		
Customer:	DTC Communications, Inc.	Test Sample:	Covert Wireless Audio Transmitter/Recorder
Model No:	T-2765-KF	Serial No:	n/a
Test Specification:	FCC Part 90	Paragraph:	90.214
Operating Mode:	Transmitting Audio Signal		
Notes:			
Job No:	R-5428N	Technician:	M. Seamans
Date:	2/14/2011		





# RETLIF TESTING LABORATORIES

## EMISSIONS DATA SHEET

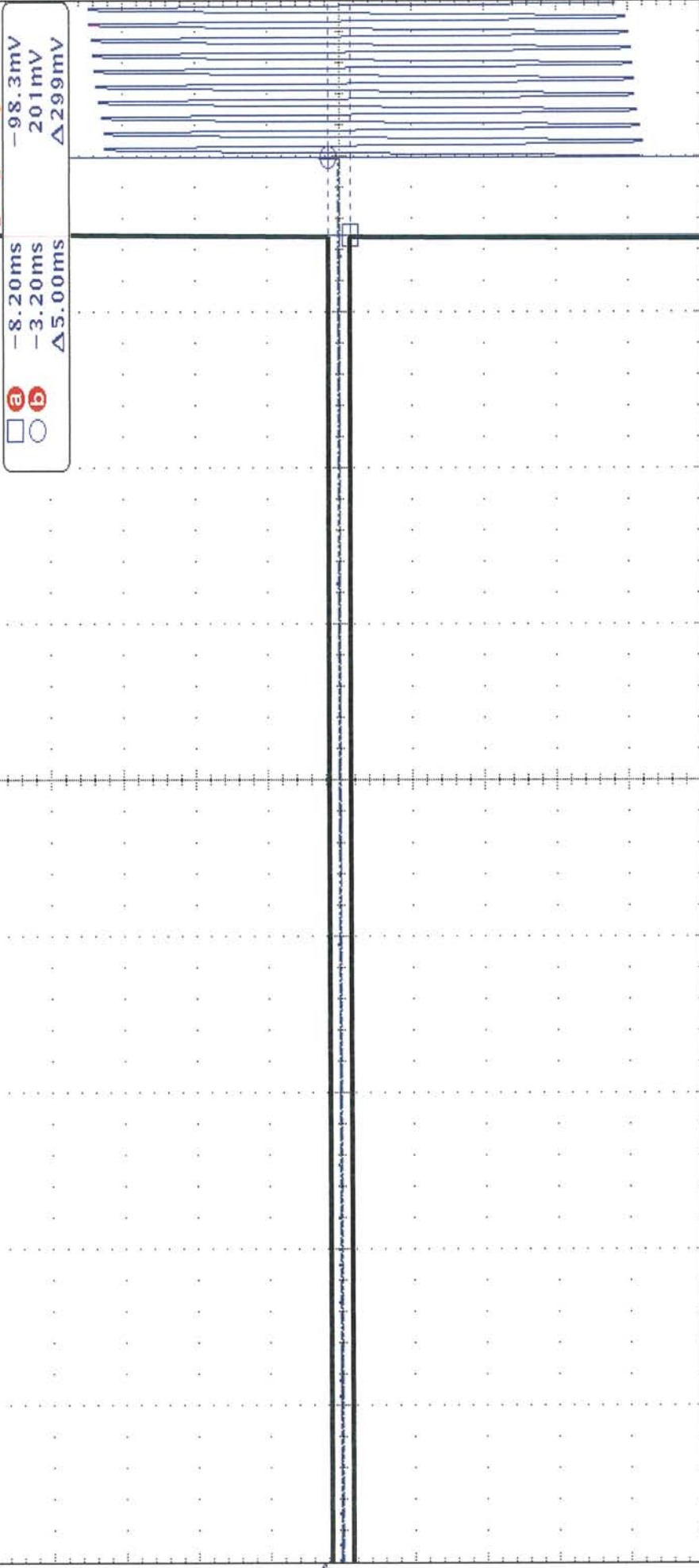
Test Method:	Transient Frequency Behavior (Off)	Job No:	R-5428N
Customer:	DTC Communications, Inc.	Technician:	M. Seamans
Model No:	T-2765-KF	Date:	2/14/2011
Test Specification:	FCC Part 90		
Operating Mode:	Transmitting Audio Signal		
Notes:			

Test Sample: Covert Wireless Audio Transmitter/Recorder

Serial No: n/a

Paragraph: 90.214

Tek PreVu



10.0ms 93.10 % 10.0Ks/s 1000 points 935mV 1.34mV

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



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**Equipment List**  
**Fundamental Radiated Emissions (ERP)**

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
3001	EMPIRE DEVICES	TUNED DIPOLE ANTENNA	200 MHz - 400 MHz	T2	12/3/2010	12/3/2013
3002	EMPIRE DEVICES	TUNED DIPOLE ANTENNA	400 MHz - 1 GHz	T3	12/3/2010	12/3/2013
4029	RETLIF	OPEN AREA TEST SITE	3 / 10 Meters	RNH	8/21/2009	8/21/2012
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5046	MARCONI	SIGNAL GENERATOR	10 kHz - 1.2 GHz	2023A	5/28/2010	5/28/2011
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5070	ROHDE & SCHWARZ	EMI TEST RECEIVER	20 Hz - 40 GHz	ESIB40	1/14/2009	3/14/2011



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**Test Photographs**  
**Fundamental Radiated Emissions (ERP)**



Test Setup



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**Test Photographs**  
**Fundamental Radiated Emissions (ERP)**



Horizontal Antenna Polarization



Vertical Antenna Polarization



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