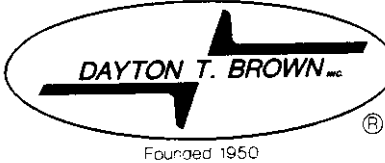


Exhibit 6. Report of measurements



ENGINEERING AND TEST DIVISION
CHURCH STREET, BOHEMIA, LONG ISLAND, NEW YORK 11716 (516) 589-6300

TEST REPORT NO.: DTB01R97-1011

DAYTON T. BROWN, INC. JOB NO.: 409969-00-000




CUSTOMER: CRESTRON ELECTRONICS, INC.
101 BROADWAY
CRESSKILL, NJ 07626

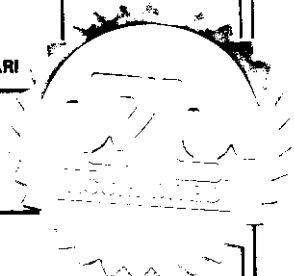
SUBJECT: FCC CODE OF FEDERAL REGULATIONS, 47 CFR, PART 15,
SUB-PART C TESTING PERFORMED ON ONE HAND-HELD
WIRELESS MOUSE, MODEL NO. CN-WM, SERIAL NO. B50361

PURCHASE ORDER NO.: 87027

ATTENTION: MR. PAUL DOMICIANO

THIS REPORT CONTAINS: SIX PAGES AND FIVE ENCLOSURES

TEST ENGINEER	 R. MONTICELLO
TEST OPERATIONS MANAGER	 S. BENZA
DEPARTMENT MANAGER	 M. AVARI
DATE	12 JANUARY 1998



THE DATA CONTAINED IN THIS REPORT WAS OBTAINED BY TESTING IN COMPLIANCE WITH THE APPLICABLE TEST SPECIFICATION AS NOTED

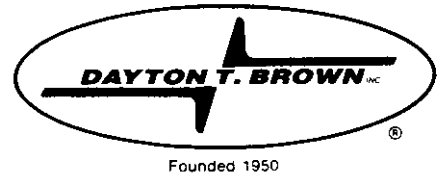


TABLE OF CONTENTS

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References	2.0	3
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1.0 ABSTRACT

This report details the results of the FCC Code of Federal Regulations, 47 CFR, Part 15, Sub-Part C testing on one Hand-Held Wireless Mouse, Model No. CN-WM, Serial No. B50361, manufactured by Crestron Electronics, Inc.

The Hand-Held Wireless Mouse was found to be in compliance with the radiated portions of the FCC Code of Federal Regulations, 47 CFR, Part 15, Sub-Part C, specification limits.

Detailed test results can be observed in Enclosures 2 and 3 of this report.

The test results recorded in this report relate only to those items tested.

This report shall not be reproduced, except in full, without the written approval of Dayton T. Brown, Inc.



2.0 REFERENCES

- (a) Customer Purchase Order No.: 87027
- (b) Dayton T. Brown, Inc. Job No.: 409969-00-000
- (c) Test Specification: Code of Federal Regulations, 47 CFR, Part 15, Sub-Part C
- (d) Test Procedure: American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz, ANSI C63.4-1992, dated 17 July 1992



3.0 ADMINISTRATIVE INFORMATION

Customer: Crestron Electronics, Inc.
101 Broadway
Cresskill, NJ 07626

Manufacturer: Crestron Electronics, Inc.

Test Item: Hand-Held Wireless Mouse

Quantity Received: One

Model No.: CN-WM

Serial No.: B50361

Test Start Date: 1 December 1997

Test Completion Date: 2 December 1997

Disposition of Test Item: The test sample was returned to Crestron Electronics, Inc. on 2 December 1997.



4.0 TEST PROGRAM OUTLINE

Description of Test Method

Radiated Emission, Intentional Radiator,
30 MHz to 10 GHz

Occupied Bandwidth

Results

Met the specification
requirements.

Met the specification
requirements.



5.0 GENERAL TEST INFORMATION

Setup

For the radiated emission test in the frequency range of 30 to 1000 MHz, the test sample was set up in a climate controlled open field site that measures 44 feet long by 24 feet wide by 24 feet high.

For the radiated emission test in the frequency range of 1 to 10 GHz, the test sample was set up in an anechoic chamber that measures 30 feet wide by 32 feet long by 12 feet high.

Unit Operation:

Operational Mode Tested - Transmit Mode - The Hand-Held Wireless Mouse was transmitting at 433.92 MHz.



Enclosure 1

Test Equipment List



Test equipment utilized for the program reported herein was within its assigned interval of calibration. Details are on file at Dayton T. Brown, Inc. and will be made available upon request.

<u>TEST</u>	<u>ITEM</u>	<u>MANUFACTURER</u>	<u>DIB NO.</u>	<u>EQUIPMENT CHARACTERISTIC</u>	<u>MODEL</u>	<u>SERIAL NO.</u>	<u>CALIBRATION DUE DATE</u>
Rad Emis	BiLog Antenna	Chase-York	27-1	30 - 2000 MHz	CBL 6112	2055	4/12/98
Occupied Bandwidth	Double Ridge Guide Antenna	Electro-Mechanics	27-42	200 - 2000 MHz	3106	2318	7/26/98
Rad Emis	Double Ridge Guide Antenna	Electro-Mechanics Company	27-56	1.0 - 12.5 GHz	3105	2071	6/7/98
Rad Emis	Analyzer Interference	Electro-Metrics	65-142	10 kHz - 1.0 GHz	EMC -25 Mk III	608	12/21/97
Rad Emis	Metering Module	Electro-Metrics	65-142-1	10 kHz - 1.0 GHz	CRM 25	136	3/29/98
Rad Emis	Spectrum Analyzer	Hewlett-Packard	65-247	10 kHz - 26.5 GHz	8563A	3220A 01924	11/8/98
Rad Emis	Preamplifier	Hewlett-Packard	71-11	1 - 26.5 GHz 30 dB Gain	8449B	3008A- 00284	12/13/98
Rad Emis, Occupied Bandwidth	Anechoic Facility	Dayton T. Brown, Inc.	-	30 ft x 32 ft 12 ft High	-	Anechoic Room	-
Rad Emis	FCC Facility	Dayton T. Brown, Inc.	-	44 ft x 24 ft 24 ft High	-	FCC Site	-



Enclosure 2

**Radiated Emission,
Intentional Radiator, 30 MHz to 10 GHz**



RADIATED EMISSION.
INTENTIONAL RADIATOR. 30 MHz TO 10 GHz

Test Procedure

A radiated emission test, in the frequency range of 30 to 1000 MHz, was performed on the Hand-Held Wireless Mouse while it was mounted on a wooden table that was standing on a conductive turntable.

For the frequency range of 30 to 1000 MHz, measurements were made utilizing a manually tuned interference measurement receiver, which was located in the instrumentation room below the ground plane.

The receiver was connected to the measurement antenna, which was located 10 meters from the turntable for the frequency range of 30 to 1000 MHz.

A linear polarized antenna was utilized for the measurements. The antenna height was varied between 1 and 4 meters and the test sample was rotated 360° to ensure maximum pickup from the test sample.

A radiated emission test, in the frequency range of 1 to 10 GHz, was performed on the Hand-Held Wireless Mouse while it was mounted on a wooden table in an anechoic chamber.

For the frequency range of 1 to 10 GHz, measurements were made utilizing a spectrum analyzer located in a shielded enclosure, which was attached to the anechoic enclosure.

The receiver was connected to the measurement antenna, which was located 3 meters from the table for the frequency range of 1 to 10 GHz, with a length of 50' coaxial cable.

The Hand-Held Wireless Mouse utilizes pulse modulation with a 50% duty cycle.

Any emissions not reported were at least 20 dB below the specification limits.

Measurements were made utilizing the following bandwidth and detector function:

Frequency Range	CISPR Bandwidth	Detector Function
30 to 1000 MHz	120 kHz	Quasi-Peak
1 to 10 GHz	100 kHz	Peak

The antenna per meter factors of the antennas utilized are depicted in the figures contained in this enclosure.



RADIATED EMISSION.
INTENTIONAL RADIATOR. 30 MHz TO 10 GHz
(Continued)

Test Procedure - (Continued)

The test setups employed are depicted in the photographs contained in this enclosure.

Test Results

No emission levels above the FCC Code of Federal Regulations, 47 CFR, Part 15, Sub-Part C, specification limits were observed.

Detailed test results for the radiated emission test for intentional radiators can be observed on pages 3 through 10 of this enclosure.



Date : 1 Dec 1997

Test Item : RF Wireless Mouse CN-WM

Serial : B50361

Customer : Crestron Electronics, Inc.

Job No. : 409969-00-000

Test Condition : Transmitting at 433.92 MHz

Ant. Polarization: Vertical

Specification : FCC Rules & Regs. Part 15, Sub-Part C

Units : dBuV/m

Radiated Emission **1 to 10 GHz**

Met Requirement Yes No

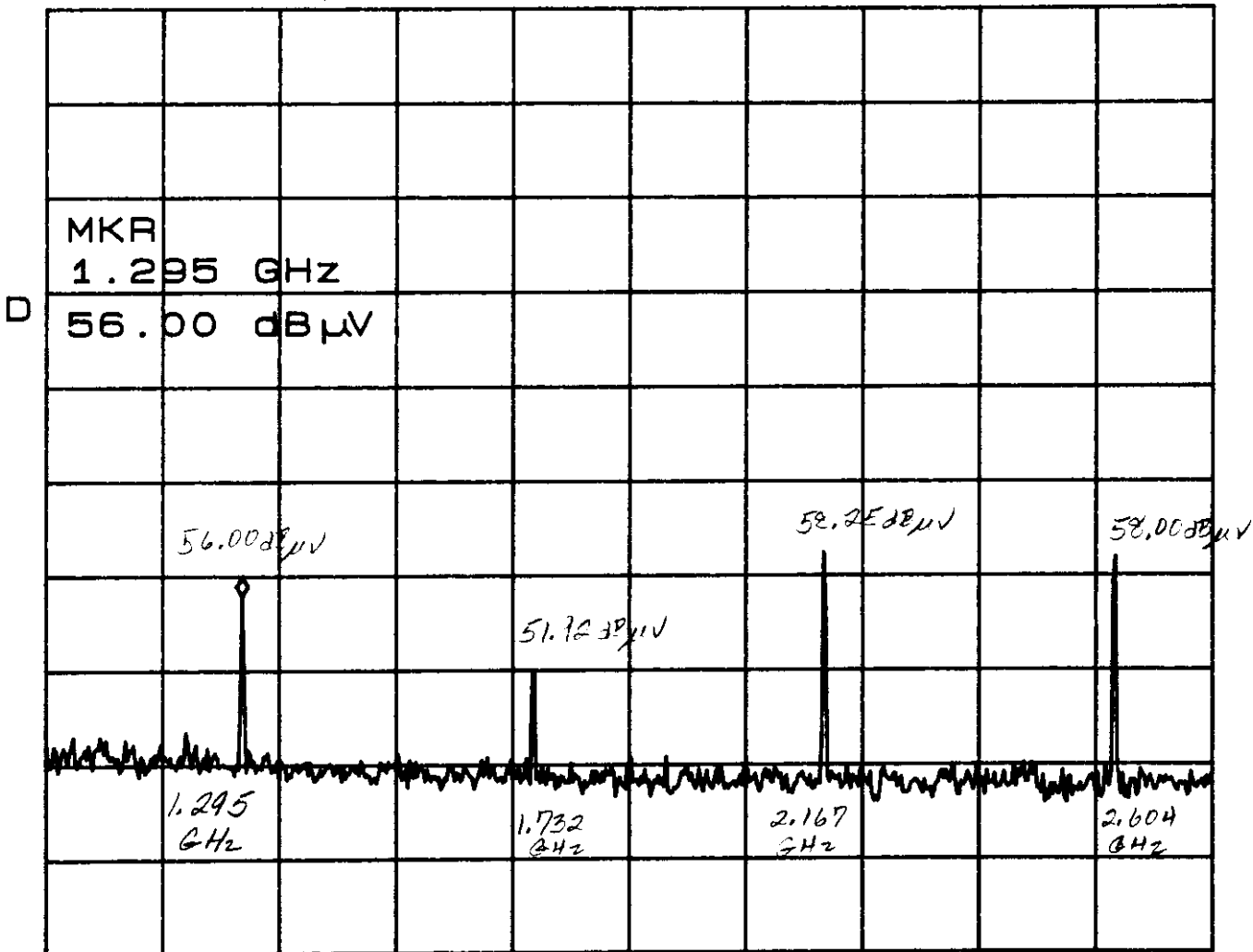
*ATTEN **0dB**

CNT **56.00dB μ V**

RL **87.0dB μ V**

5dB/

702.13 MHz



START **1.000GHz**

STOP **2.750GHz**

*RBW **2.0MHz**

VBW **3.0MHz**

*SWP **45sec**

Remarks : _____

Data Reviewed By: *R. [Signature]*

Test Performed By: *Lawrence Williams*



Date : 1 Dec 1997

Test Item : RF Wireless Mouse CN-WM

Serial : B50361

Customer : Crestron Electronics, Inc.

Job No. : 409969-00-000

Test Condition : Transmitting at 433.92 MHz

Ant. Polarization: Vertical

Specification : FCC Rules & Regs. Part 15, Sub-Part C

Units : dBuV/m

Radiated Emission 1 to 10 GHz

Met Requirement Yes No

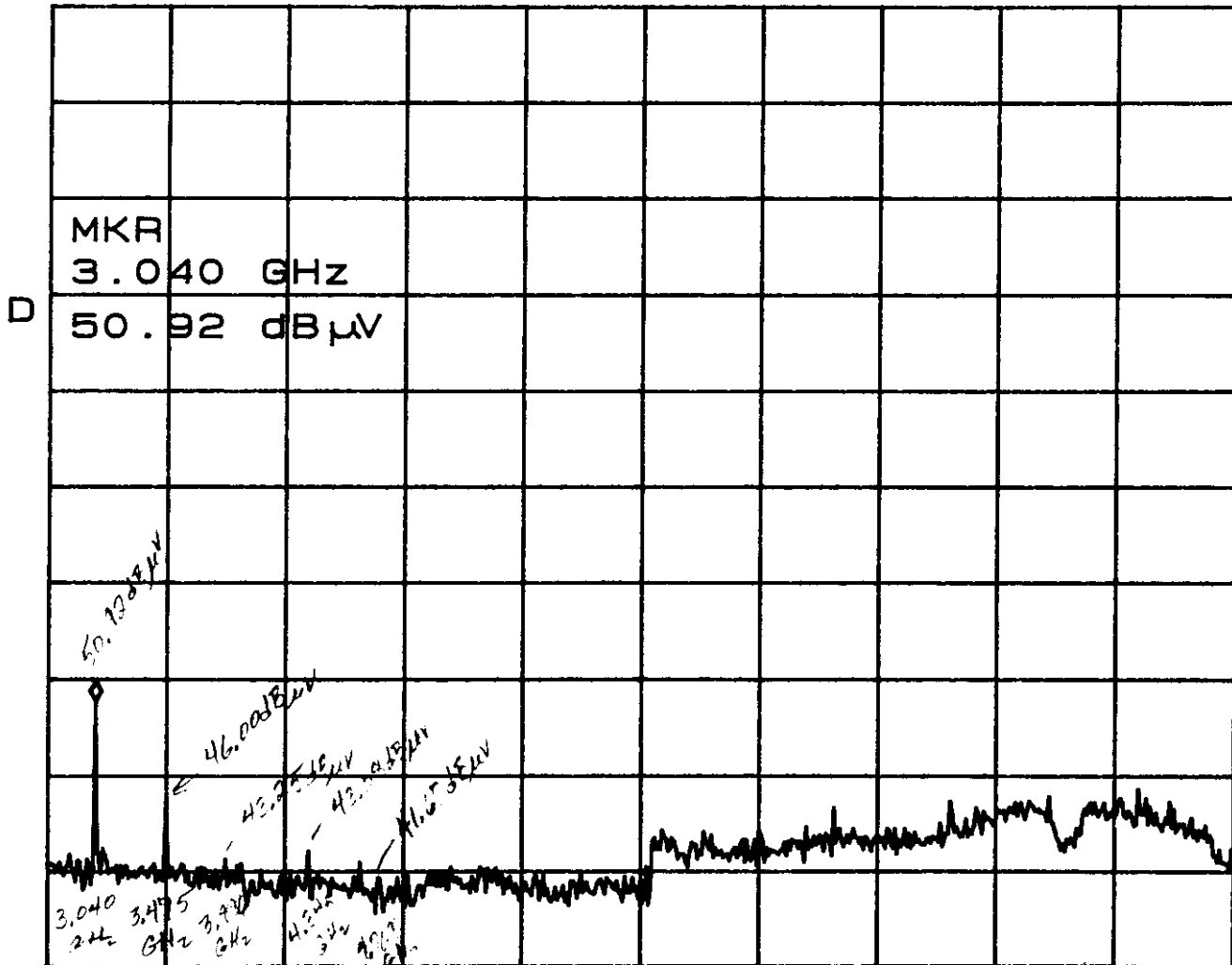
*ATTEN 0dB

MKR 50.92dB μ V

RL 87.0dB μ V

5dB/

3.040GHz



START 2.750GHz

STOP 10.000GHz

RBW 1.0MHz

VBW 1.0MHz

*SWP 20sec

Remarks : _____

Data Reviewed By: *R. [Signature]*

Test Performed By: *Lawrence Wilkin*



Date : 1 Dec 1997

Test Item : RF Wireless Mouse CN-WM

Serial : B50361

Customer : Crestron Electronics, Inc.

Job No. : 409969-00-000

Test Condition : Transmitting at 433.92 MHz

Ant. Polarization: Horizontal

Specification : FCC Rules & Regs. Part 15, Sub-Part C

Units : dBuV/m

Radiated Emission 1 to 10 GHz

Met Requirement Yes No

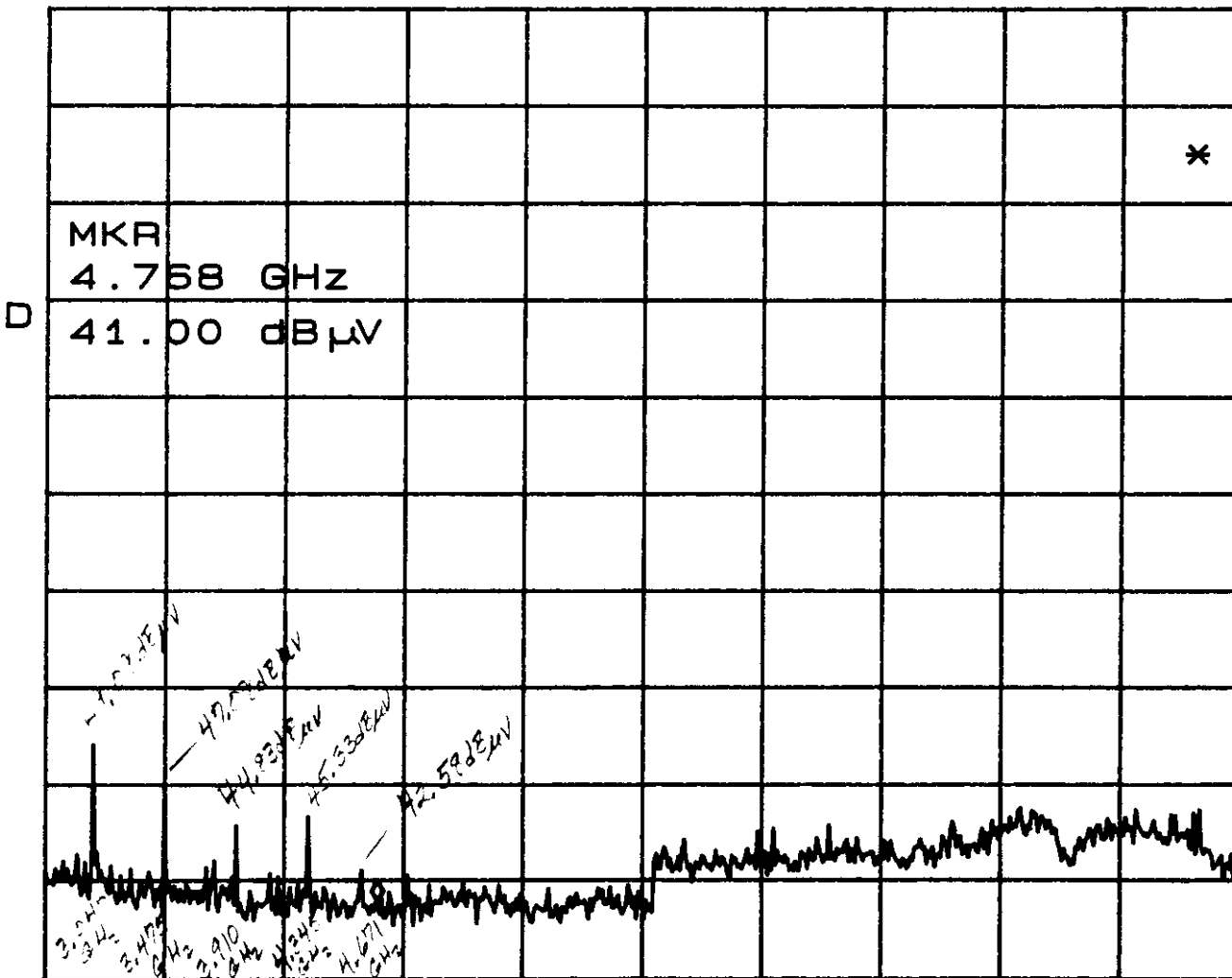
*ATTEN 0dB

MKR 41.00dB μ V

RL 87.0dB μ V

5dB/

4.768GHz



START 2.750GHz

STOP 10.000GHz

RBW 1.0MHz

VBW 1.0MHz

*SWP 20sec

Remarks : _____

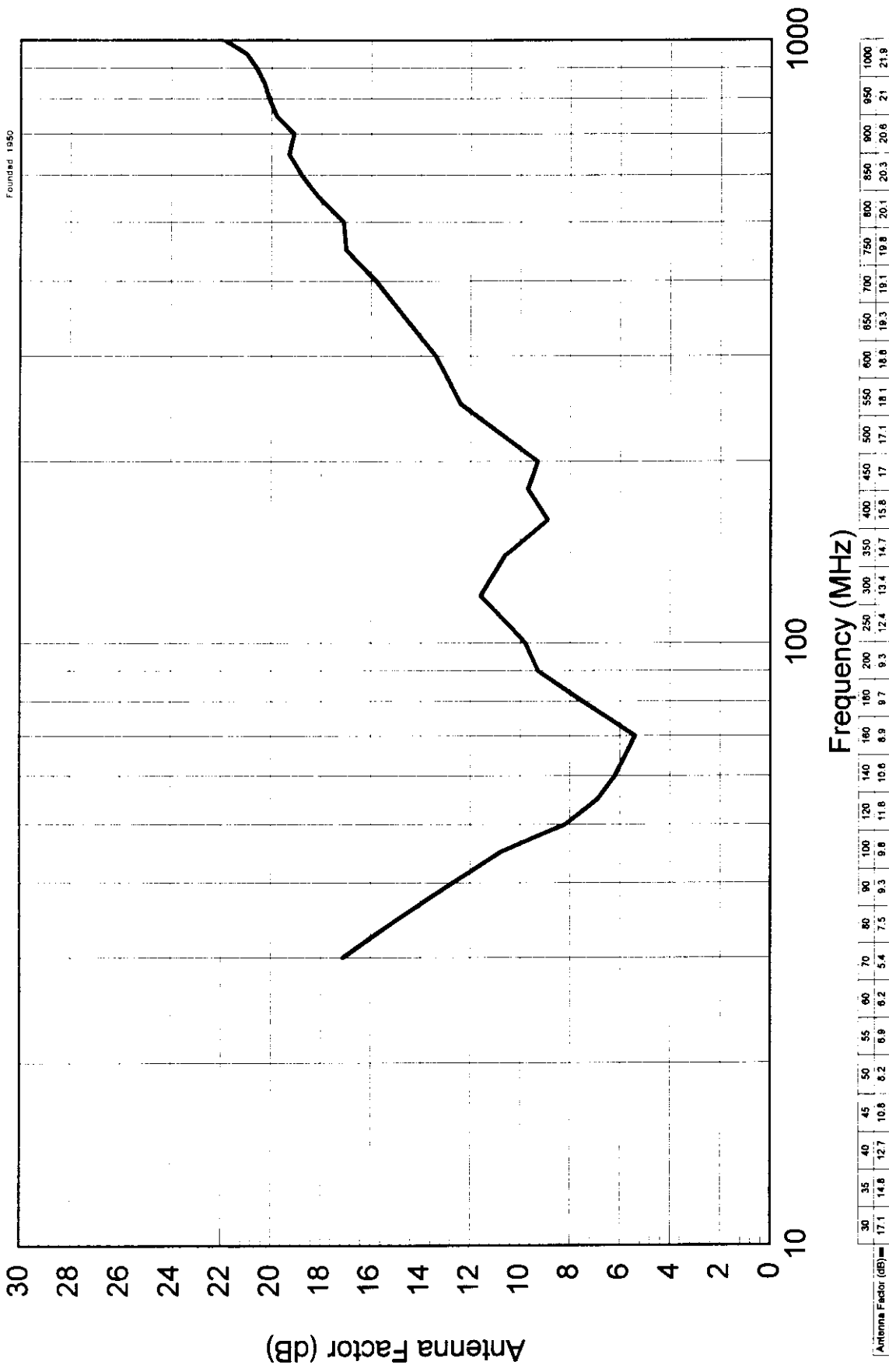
Data Reviewed By: *R. [Signature]*

Test Performed By: *Lawrence Williams*

10 Meter Antenna Factor

For The Chase EMC, Inc. BiLog Antenna

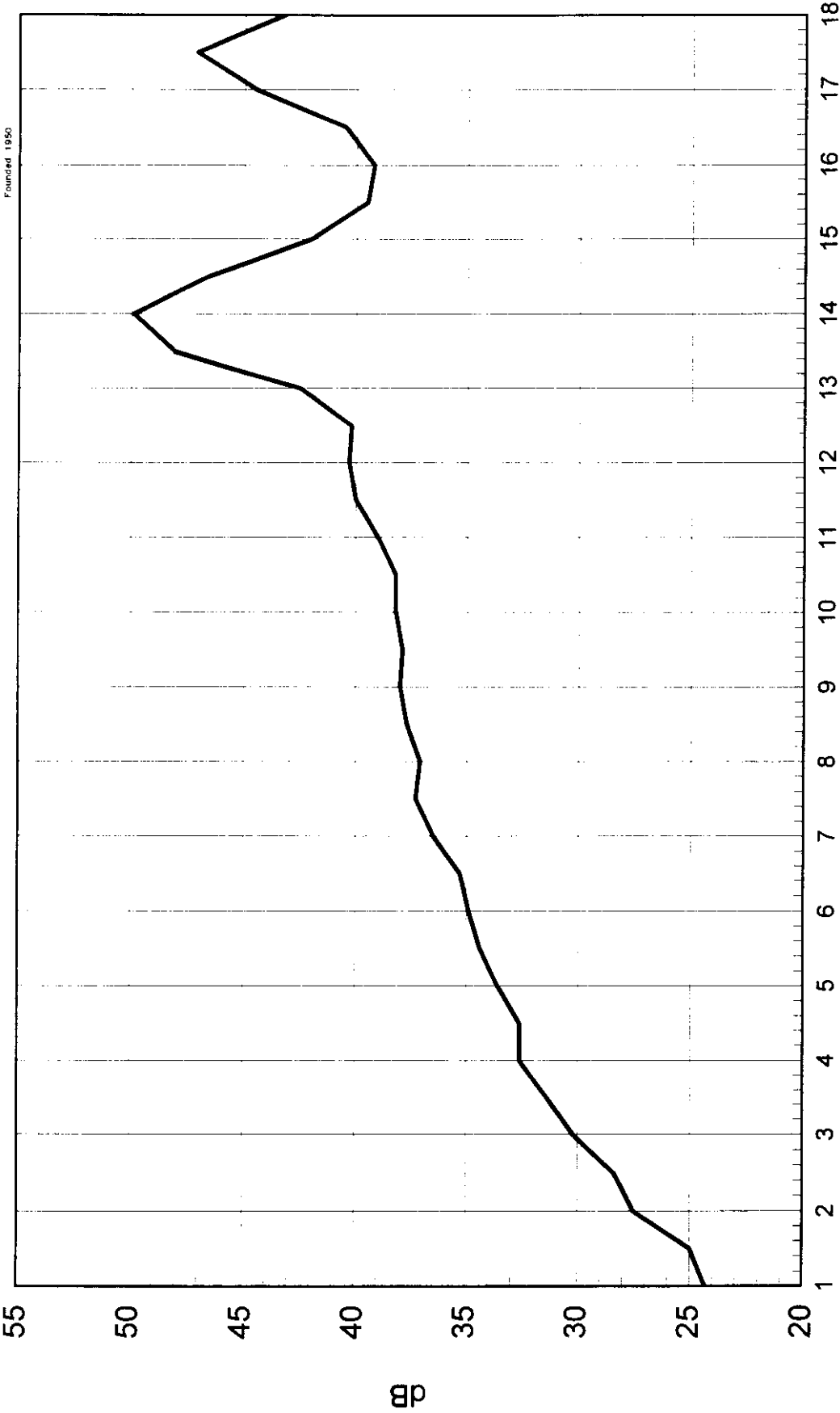
Model Number: CBL6112, DTB Number: 27-1



Cal Date: 15 April 1997
 Due Date: 12 April 1998

Add Factors Shown Here in dB to
 Meter Indicated in dBuV to Convert to
 Field Intensity in dBuV/m

Antenna Factor For The
EMCO Model 3105
 Double Ridge Waveguide Antenna DTB No 27-56



Antenna Factor (dB)	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18
Field Intensity in dBuV/m	24.3	25	27.5	28.4	30.2	31.4	32.6	32.8	33.6	34.4	34.8	35.3	36.5	37.3	37.7	38	37.9	38.2	38.2	38.2	39	40	40.3	40.2	42.5	40.1	48.9	46.8	42	38.5	39.2	40.5	44.5	47.1	43.2

Add Factors Shown Here in dB to
 Meter Indicated in dBuV to Convert to
 Field Intensity in dBuV/m

CAL DATE 13 June 1996
DUE DATE 07 June 1998



Enclosure 3
Occupied Bandwidth



OCCUPIED BANDWIDTH

Test Procedure

The occupied bandwidth of the Hand-Held Wireless Mouse was measured using a spectrum analyzer with a bandwidth setting of 100 kHz. The spectrum analyzer was operated in the "Max Hold" mode.

The Hand-Held Wireless Mouse has an operating frequency of 433.92 MHz. The maximum allowed bandwidth for devices operating above 70 MHz and below 900 MHz is 0.25% of the center frequency.

The maximum allowed bandwidth is calculated as follows:

$$433.92 \text{ MHz} \times 0.0025 = 1.0848 \text{ MHz}$$

The occupied bandwidth was determined at the points 20 dB down from the carrier.

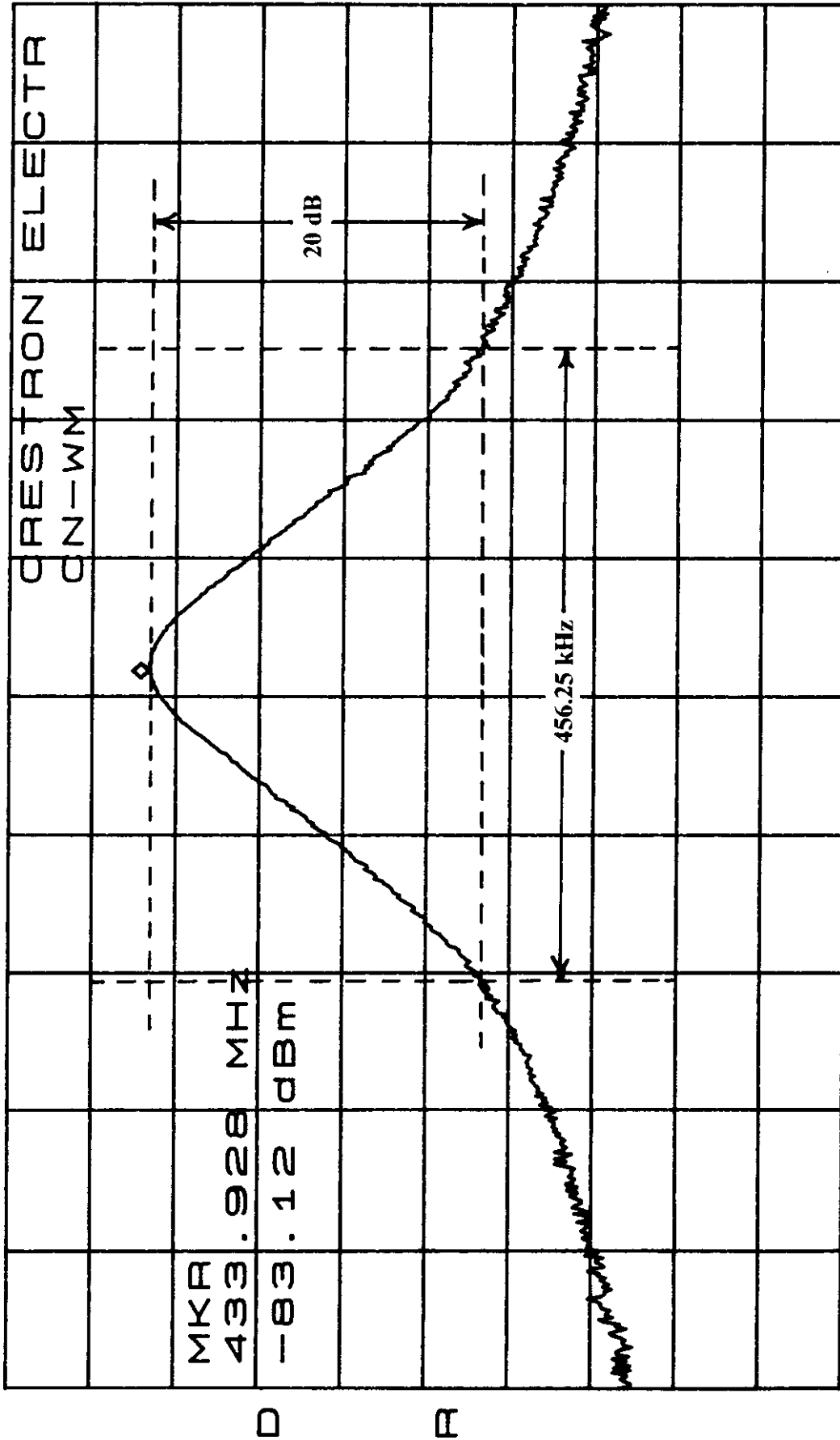
The test setup employed is depicted in the photograph contained in this enclosure.

Test Results

The test sample met the occupied bandwidth test. The measured occupied bandwidth from the Hand-Held Wireless Mouse was 456.25 kHz at the 20 dB down point.

Detailed test results for the occupied bandwidth test can be observed on page 2 of this enclosure.

ATTEN 10dB
RL -74.7dBm
5dB/
MKR -83.12dBm
433.928MHz



CENTER 433.910MHz
*RBW 100KHz
VBW 100KHz
SPAN 1.000MHz
*SWP 50ms

B. [Signature]



Enclosure 4

Physical Inspections



PHYSICAL INSPECTION FORM

JOB NUMBER 409969-00-000 DATE 12-1-97
CUSTOMER: Crestron Electronics ENGINEER R. Monticello
TEST EMI SPECIFICATION FCC, Part 15, C
ITEM Hand-Held Wireless Mouse SERIAL NO. B50361

A PRE TEST INSPECTION REVEALED :

- NO ANOMALIES
- NO ANOMALIES DUE TO TESTING
- THE FOLLOWING

Photograph Taken ?? NO If Yes, Photo Number N/A

Technician *Lawrence Wilham*
Engineer *R. Monticello*



PHYSICAL INSPECTION FORM

JOB NUMBER 409969-00-000 DATE 12-2-97
CUSTOMER: Crestron Electronics ENGINEER R. Monticello
TEST EMI SPECIFICATION FCC, Part 15, C
ITEM Hand-Held Wireless Mouse SERIAL NO. B50361

A POST TEST INSPECTION REVEALED :

- NO ANOMALIES
- NO ANOMALIES DUE TO TESTING
- THE FOLLOWING

Photograph Taken ?? NO If Yes, Photo Number N/A

Technician *Lawrence William*
Engineer *R. Monticello*



97-4707



97-4707

TESTED FOR CRESTRON ELECTRONICS, INC.
ITEM: HAND-HELD WIRELESS MOUSE

JOB NO. 409969-00-000
DTB01R97-1011

FRONT VIEW OF TEST SAMPLE
FILE NO. 97-4707
ENCLOSURE 4

S/N B50361
M/N CN-WM

2 DECEMBER 1997
PHOTO 1





97-4708

97-4708

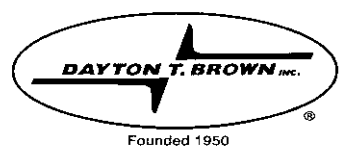
TESTED FOR CRESTRON ELECTRONICS, INC.
ITEM: HAND-HELD WIRELESS MOUSE

JOB NO. 409969-00-000
DTB01R97-1011

REAR VIEW OF TEST SAMPLE
FILE NO. 97-4708
ENCLOSURE 4

S/N B50361
M/N CN-WM

2 DECEMBER 1997
PHOTO 2





Enclosure 5

A2LA Scope of Accreditation



American Association for Laboratory Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC GUIDE 25:1990

DAYTON T. BROWN, INC.
Church Street
Bohemia, NY 11716
Charles Gortakowski Phone: 516 589 6300

ACOUSTICS & VIBRATION

Valid To: December 31, 1998 Certificate Number: 0767-01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following acoustics & vibration tests:

- Vibration (Sine, Random, Gunfire, Shipboard)
- Buzz, Squeak and Rattle
- Combined Environments and Reliability (Temperature, Humidity and Vibration)
- Pyroshock
- Sound Power and Measurements
- Airborne and Structureborne Noise Measurement

On the following types of materials and products:
Aircraft Components & Systems; Automotive Components & Systems; Shipboard Components & Systems; Railroad & Industrial Vehicle Components & Systems; Information Technology & Telecommunication Equipment & Systems; Electronic Components & Systems; Medical Electronic Equipment; Military Equipment & Hardware.

Using the following standards:
Military: MIL-STD-810, MIL-STD-167-1, MIL-S-901, MIL-STD-202, MIL-STD-781, MIL-E-16400, MIL-STD-108, MIL-STD-2036, MIL-T-28800, MIL-STD-740-1, MIL-STD-740-2, NAVMAT P-9492
Commercial: RTCA/DO-160
ANSI: S1.2, S1.35
GM: 9103P, 9104P, 9110P, 9125P, 9128P, 9140P, 9144P, 9154P, 9163P, 9175P
FORD: DVT1.12.00.007-AC, ES-F5VB-54043B13-AA
Chrysler: PF-9007, PF-9531, PF-6897, PF-8243, PF-9164
Telephony: Bellcore GR-1089

Robert M. Robinson



American Association for Laboratory Accreditation

SUPPLEMENT TO THE SCOPE OF ACCREDITATION TO ISO/IEC GUIDE 25:1990 AND EN 45001

DAYTON T. BROWN, INC.
Church Street
Bohemia, NY 11716
Charles Gortakowski Phone: 516 589 6300

ELECTRICAL (EMC)

Valid as of: November 18, 1997 Certificate Number: 0767-02
Valid until: December 31, 1998

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following electrical tests:

- AS/NZS 3548
- Code of Federal Regulations (CFR) 47, FCC Method Part 15 using ANSI C63.4
- Code of Federal Regulations (CFR) 47, FCC Method Part 68
- CISPR 22
- EN: 50081-1, 50081-2, 50082-1, 50082-2, 50091-1, 50091-2, 55011, 55013, 55014, 55015, 55022, 60555-2, 60555-3, 60601-1-2, 61000-4-1, 61000-4-2, 61000-4-4, 61000-4-5, 61000-4-7, 61000-4-8, 61000-4-11
- ENV: 50140, 50141, 50142, 50204
- IEC: 601, 601-1-2, 801-1 (1000-4-1), 801-2 (1000-4-2), 801-3 (1000-4-3), 801-4 (1000-4-4), 801-5 (1000-4-5), 801-6 (1000-4-6), 1000-4-7, 1000-4-8, 1000-4-11, 1000-3-2, 1000-3-3
- Commercial Aviation: RTCA/DO-160, FAA Advisory Circular 20-136, Boeing D2007001, Boeing WZZ7000
- Military: MIL-STD-461 (A,B,C,AD), MIL-STD-462, MIL-STD-1399, MIL-STD-704, MIL-E-16400, MIL-STD-2036, MIL-STD-1275A(AT), MIL-STD-202
- GM: 9100P, 9105P, 9109P, 9110P, 9112P, 9113P, 9114P, 9115P, 9116P, 9117P, 9119P, 9120P, 9103P, 9104P, 9125P, 9128P, 9140P, 9144P, 9154P, 9163P, 9175P
- Chrysler PF9164
- Telephony Bellcore GR-1089
- ANSI/IEEE: IEEE-587-1980, IEEE-C62.43, IEEE-C62.32
- TEMPEST: NST ISSAM Tempest/1-92, NACSEM 5109, NACSEM 5100A, NACSEM 5112, KAS-30A/TSEC
- VCCI

Peter Abney



American Association for Laboratory Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC GUIDE 25:1990 AND EN 45001

DAYTON T. BROWN, INC.
Church Street
Bohemia, NY 11716
Charles Gortakowski Phone: 516 589 6300

ELECTRICAL (EMC)

Valid To: December 31, 1998 Certificate Number: 0767-02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following electrical tests:

- | | |
|---|--|
| Capacitance
AC Capacitance
AC Loss Characteristics
Permittivity
(Dielectric Loss Constant) | Impedance
Inductance
Lightning
Magnetism
Power Transmission
Resistivity
AC/DC
Insulation Resistance
Voltage (AC/DC) |
| Conductivity
Current (AC/DC)
Electrostatic (ESD)
EMP | |
| EMI/RFI
Conducted Emissions
Conducted Transient Susceptibility
Conducted Susceptibility (Immunity)
Radiated Emissions (O.A.T.S. Method)
Radiated Emissions
Shielded Room Method
Radiated Susceptibility (Immunity)
Radiated Transient Susceptibility
Electrostatic Discharge (ESD)
Electromagnetic Pulse (EMP)
Electrical Fast Transient (EFT) | Lightning
Input Power Variations
Magnetic Field Emission
Magnetic Field Susceptibility
Harmonics
RF Power Handling
Shielding Effectiveness
Stirred Mode
Transmissibility
Site Survey
TEMPEST |

On the following types of materials and products:
Aerospace Components & Systems; Automotive Components & Systems; Shipboard Components & Systems; Railroad & Industrial Vehicle Components & Systems; Information Technology & Telecommunication Equipment & Systems; Electrical & Electronic Components & Systems; Medical Electronic Equipment; Military Equipment & Hardware.

Using the following sources of standards:
ANSI, AS/NZS, CFR, CISPR, EN, ENV, FCC, IEC, Commercial Aviation, Military, GM, Chrysler, Telephony, ANSI/IEEE, TEMPEST, VCCI

A supplemental scope, identifying the full range of tests and types of tests, is available from A2LA or the laboratory.

Peter Abney



American Association for Laboratory Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC GUIDE 25:1990

DAYTON T. BROWN, INC.
Church Street
Bohemia, NY 11716
Charles Gortakowski Phone: 516 589 6300

MECHANICAL

Valid To: December 31, 1998 Certificate Number: 0767-03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following mechanical tests:

- | | | |
|---|--|---|
| Compression
Fatigue
Shear | Stress
Metallography
Hardness | Fracture
Torsion |
| Tensile (Room, High & Low Temperatures)
NDF (Dye Penetrant & Magnetic Particle) | | |
| <u>Environmental Simulation</u> | | |
| Acceleration
Explosion
Temperature/Altitude
Salt Fog/Salt Spray
Temperature/Shock | Altitude
Dust
Wind & Rain
Humidity
Drop/Impact | Fungus
Sun/Solar Radiation
Combined Environments
Water Immersion
Sand |
| Durability (Horn Life Actuation/Horn Blow Mechanism)
High/Low Temperature/Humidity/Vibration
High Pressure Burst (Air & Hydraulic)
Shock (1/2 Sine, Sawtooth, Trapezoid) | | |

On the following types of materials and products:
Aerospace Components & Systems; Automotive Components & Systems; Shipboard Components & Systems; Railroad & Industrial Vehicle Components & Systems; Information Technology & Telecommunication Equipment & Systems; Electrical & Electronic Components & Systems; Medical Electronic Equipment; Military Equipment & Hardware; Packaging & Containers; Pipes, Hoses, Fittings, and Valves.

Using the following standards:
Military: MIL-STD-810, MIL-STD-167-1, MIL-S-901, MIL-STD-202, MIL-STD-781, MIL-E-16400, MIL-STD-108, MIL-STD-2036, MIL-T-28800, NAVMAT P-9492, MIL-STD-6066, MIL-T-7743, MIL-STD-410
Commercial: RTCA/DO-160
ASTM: D117, D1141, G23, E18, D2240, B557, E8, E1444
GM: 9110P, 9103P, 9104P, 9125P, 9128P, 9140P, 9144P, 9154P, 9163P, 9175P
FORD: DVT1.12.00.007-AC, ES-F5VB-54043B13-AA
Chrysler: PF-9007, PF-9531, PF-6897, PF-8243, PF-9164
Telephony: Bellcore GR-1089

Robert M. Robinson