



M. Flom Associates, Inc.

International Compliance Testing Laboratory

3356 N. San Marcos Place, Suite 107
Chandler, AZ 85225

toll-free: (866) 311-3268
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<http://www.mflom.com>
info@mflom.com

Date: March 29, 2005

Federal Communications Commission
Via: Electronic Filing

Attention: Authorization & Evaluation Division

Applicant: Elocks, Inc.
Equipment: Pro-Series 135 A (remote)
FCC ID: S5IELOCKSYSREM315
FCC Rules: 15.231, Confidentiality

Gentlemen:

On behalf of the Applicant, enclosed please find Application Form 731, Engineering Test Report and all pertinent documentation, the whole for approval of the referenced equipment as shown.

Filing fees are attached.

We trust the same is in order. Should you need any further information, kindly contact the writer who is authorized to act as agent.

Sincerely yours,

David E. Lee, Compliance Test Manager

enclosure(s)
cc: Applicant
DEL/ca

M. Flom Associates, Inc.
3356 N. San Marcos Place, Suite 107
Chandler, Arizona 85225-7176
(480) 926-3100 phone, fax (480) 926-3598

FCC ID: S5IELOCKSYSREM315
MFA p0530002, d0530040



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Transmitter Certification

of

FCC ID: S5IELOCKSYSREM315
Model: Pro-Series 135 A (remote)

to

Federal Communications Commission

Rule Part(s) 15.231, Confidentiality

Date of report: March 29, 2005

On the Behalf of the Applicant:

Elocksy, Inc.

At the Request of:

P.O. Deposit Check #1004

Pacific Paralell Research, Inc.
922 Grange Hall Rd
Cardiff By The Sea, CA 92007-1018

Attention of:

Craig Davidson
760-436-6368
Email: cdavidson.ppri@earthlink.com

Supervised by:

David E. Lee, Compliance Test Manager

M. Flom Associates, Inc.
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MFA p0530002, d0530040



List Of Exhibits
(FCC Certification (Transmitters) - Revised 9/28/98)

Applicant: Elocksy, Inc.

FCC ID: S5IELOCKSYSREM315

By Applicant:

1. Letter Of Authorization
2. Identification Drawings
Label
Location of Label
Compliance Statement
Location of Compliance Statement
3. Documentation: 2.1033(B)
 - (3) User Manual
 - (4) Operational Description
 - (5) Block Diagram
 - (5) Schematic Diagram
 - (7) Photographs
 - Parts List
 - Active Devices
4. Draft Specification Information

By M.F.A. Inc.

A. TESTIMONIAL & STATEMENT OF CERTIFICATION

M. Flom Associates, Inc.
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(480) 926-3100 phone, fax (480) 926-3598

FCC ID: S5IELOCKSYSREM315
MFA p0530002, d053004040



The applicant has been cautioned as to the following:

15.21 Information to User.

The users manual or instruction manual for an intentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

15.27(a) Special Accessories.

Equipment marketed to a consumer must be capable of complying with the necessary regulations in the configuration in which the equipment is marketed. Where special accessories, such as shielded cables and/or special connectors are required to enable an unintentional or intentional radiator to comply with the emission limits in this part, the equipment must be marketed with, i.e. shipped and sold with, those special accessories. However, in lieu of shipping or packaging the special accessories with the unintentional or intentional radiator, the responsible party may employ other methods of ensuring that the special accessories are provided to the consumer, without additional charge.

Information detailing any alternative method used to supply the special accessories for a grant of equipment authorization or retained in the verification records, as appropriate. The party responsible for the equipment, as detailed in § 2.909 of this chapter, shall ensure that these special accessories are provided with the equipment. The instruction manual for such devices shall include appropriate instructions on the first page of text concerned with the installation of the device that these special accessories must be used with the device. It is the responsibility of the user to use the needed special accessories supplied with the equipment.



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Required information per ISO/IEC Guide 25-1990, paragraph 13.2:

a)

Test Report

b) Laboratory:
(FCC: 31040/SIT)
(Canada: IC 2044)

M. Flom Associates, Inc.
3356 N. San Marcos Place, Suite 107
Chandler, AZ 85225

c) Report Number:

d0530040

d) Client:

Pacific Parallel Research, Inc.
922 Grange Hall Rd
Cardiff By The Sea, CA 92007-1018

e) Identification:

Pro-Series 135 A (remote)
FCC ID: S5IELOCKSYSREM315
Description:
Garage door Lock remote

f) EUT Condition:

Not required unless specified in individual tests.

g) Report Date:
EUT Received:

March 29, 2005
2005-Feb-28

h, j, k):

As indicated in individual tests.

i) Sampling method:

No sampling procedure used.

l) Uncertainty:

In accordance with MFA internal quality manual.

m) Supervised by:



David E. Lee, Compliance Test Manager

n) Results:

The results presented in this report relate only to the item tested.

o) Reproduction:

This report must not be reproduced, except in full, without written permission from this laboratory.



List Of General Information Required For Certification

In Accordance With FCC Rules And Regulations,
Volume II, Part 2 and to

15.231, Confidentiality

Sub-part 2.1033

(c)(1): **Name and Address of Applicant:**

Elocksys, Inc.
322 North El Camino Real, Suite A
Encinitas, CA 92024

Manufacturer:

Applicant

(c)(2): **FCC ID:** S5IELOCKSYSREM315

Model Number: Pro-Series 135 A (remote)

(c)(3): **Instruction Manual(s):**

Please See Attached Exhibits

(c)(4): **Type of Emission:** Digital

(c)(5): **Frequency Range, MHz:** 315.000

(c)(6): **Power Rating, Watts:**
 Switchable Variable N/A

(c)(7): **Maximum Power Rating, W:** 50 mv/m @ 3m

15.203: **Antenna Requirement:**

- The antenna is permanently attached to the EUT
- The antenna uses a unique coupling
- The EUT must be professionally installed
- The antenna requirement does not apply



Subpart 2.1033 (continued)

(c)(8): Voltages & currents in all elements in final RF stage, including final transistor or solid state device:

Collector Current, A	= per manual
Collector Voltage, Vdc	= per manual
Supply Voltage, Vdc	= 12.0

(c)(9): Tune-Up Procedure:

Please See Attached Exhibits

(c)(10): Circuit Diagram/Circuit Description:

Including description of circuitry & devices provided for determining and stabilizing frequency, for suppression of spurious radiation, for limiting modulation and limiting power.

Please See Attached Exhibits

(c)(11): Label Information:

Please See Attached Exhibits

(c)(12): Photographs:

Please See Attached Exhibits

(c)(13): Digital Modulation Description:

 ATTACHED EXHIBITS
 x N/A

(c)(14): Test and Measurement Data:

Follows



A2LA

"A2LA has accredited M. Flom Associates, Inc. Chandler, AZ for technical competence in the field of Electrical Testing. The accreditation covers the specific tests and types of tests listed on the agreed scope of accreditation. This laboratory meets the requirements of ISO/IEC 17025 – 1999 'General Requirements for the Competence of Testing and Calibration Laboratories' and any additional program requirements in the identified field of testing."

Certificate Number: **2152-01**



UNITED STATES DEPARTMENT OF COMMERCE
National Institute of Standards and Technology
Gaithersburg, Maryland 20899

September 15, 1999

Mr. Morton Flom
M. Flom Associates Inc.
3356 N. San Marcos Place, Suite 107
Chandler, AZ 85225

Dear Mr. Flom:

I am pleased to inform you that your laboratory has been validated by the Chinese Taipei Bureau of Standards, Metrology, and Inspection (BSMI) under the Asia Pacific Economic Cooperation Mutual Recognition Arrangement (APEC MRA). Your laboratory has been designated as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures of the APEC MRA between the American Institute in Taiwan (AIT) and the Taipei Economic and Cultural Representative Office (TECRO) in the United States, covering equipment subject to Electro-Magnetic Compatibility (EMC) requirements. The names of all validated and nominated laboratories will be posted on the NIST website at <http://ts.nist.gov/mra> under the "Asia" category.

As of August 1, 1999, you may submit test data to BSMI to verify the equipment to be imported into Chinese Taipei satisfying the applicable EMC requirements. You must include the BSMI number (e.g., BSMI-123456) on the test report. Your BSMI number will remain valid for one year. Your BSMI number will remain in force as long as your NVLAP and/or A2LA and/or BSMI accreditation remains valid for the CMS 13431.

Please note that BSMI requires that the entity making application for the approval of regulated equipment must make such application in person at their Taipei office. BSMI also requires the name of the authorized signature who are authorized to sign the test reports. You can send this information via fax to C-Taiwan CAB Response Manager at 301-975-5414. I am also enclosing a copy of the cover sheet that, according to BSMI requirements, must accompany every test report.

NIST

If you have any questions, please contact Robert Gladhill at 301-975-4273 or Dhillon at 301-975-5521. We appreciate your continued interest in our international conformity assessment activities.

Sincerely,


Belinda L. Collins, Ph.D.
Director, Office of Standards Services

Enclosure

NIST

BSMI Number: **SL2-IN-E-041R**

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Page 4 of 14
FCC ID: S5IELOCKSYSREM315
MFA p0530002, d053004040

Test And Measurement Data

All tests and measurement data shown were performed in accordance with FCC Rules and Regulations, Volume II; Part 2, Sub-part J, Sections 2.1031, 2.1033, 2.1035, 2.1041, 2.1043, 2.1045, and the following individual Parts:

- 15.209 Radiated emission limits; general requirements
- 15.211 Tunnel radio systems
- 15.213 Cable locating equipment
- 15.214 Cordless telephones
- 15.217 Operation in the band 160-190 kHz
- 15.219 Operation in the band 510-1705 kHz
- 15.221 Operation in the band 525-1705 kHz (leaky coax)
- 15.223 Operation in the band 1.705-10 MHz
- 15.225 Operation in the band 13.553-13.567 MHz
- 15.227 Operation in the band 26-27.28 MHz (remote control)
- 15.229 Operation in the band 40.66-40.70 MHz
- X 15.231 Periodic operation in the band 40.66-40.70 MHz and above 70 MHz
- 15.233 Operation within the bands 43.71-44.49, 46.60-46.98 MHz
48.75-49.51 MHz and 49.66-50.0 MHz
- 15.235 Operation within the band 49.82-49.90 MHz
- 15.237 Operation within the bands 72.0-73.0 MHz, 74.6-74.8 MHz
and 75.2-76.0 MHz (auditory assistance)
- 15.239 Operation in band 88-108 MHz
- 15.241 Operation in the band 174-216 MHz (biomedical)
- 15.243 Operation in the band 890-940 MHz (materials)
- 15.245 Operation within the bands 902-928 MHz, 2435-2465 MHz, 5785-5815 MHz, 10500-10550 MHz, and 24075-24175 MHz (filed disturbance sensors)
- 15.247 Operation within bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz (spread spectrum)
- 15.249 Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz
- 15.251 Operation within the bands 2.9-3.26 GHz, 3.267-3.332 GHz, 3.339-3.3458 GHz, and 3.358-3.6 GHz (vehicle identification systems)
- 15.321 Specific requirements for asynchronous devices operating in the 1910-1920 MHz and 2390-2400 MHz bands (Unlicensed PCS)
- 15.323 Specific requirements for isochronous devices operating in the 1920-1930 MHz sub-band (Unlicensed PCS)



Standard Test Conditions and Engineering Practices

Except as noted herein, the following conditions and procedures were observed during the testing:

In accordance with ANSI C63.4-1992/2001, section 6.1.9, and unless otherwise indicated in the specific measurement results, the ambient temperature of the actual EUT was maintained within the range of 10° to 40°C (50° to 104 °F) unless the particular equipment requirements specify testing over a different temperature range. Also, unless otherwise indicated, the humidity levels were in the range of 10% to 90% relative humidity.

Prior to testing, the EUT was tuned up in accordance with the manufacturer's alignment procedures. All external gain controls were maintained at the position of maximum and/or optimum gain throughout the testing.

Measurement results, unless otherwise noted, are worst-case measurements.

Name of Test: Signaling Restriction

Specification: 47 CFR 15.231(a)

Provisions

To Paragraph 15.231

(a) Types of momentary signals

The EUT only transmits a control signal.
 The EUT meets the requirements provided in (e).

(a)(1) Manually operated transmitters

The EUT can not be manually activated.
 The EUT ceases transmission within 5 seconds or deactivation.
 The EUT is employed during emergencies.

(a)(2) Automatically activated transmitters

The EUT can not be automatically activated.
 The EUT does not transmit for more than 5 seconds.
 The EUT only operates during an alarm condition.

(a)(3) Automatically activated transmitters

The EUT does not transmit at regular predetermined intervals.
 The EUT meets the requirements provided in (e).
 The EUT does not transmit more than one, one second per hour.

(a)(4) Emergency transmitters

The EUT is not an emergency transmitter.
 The EUT only operates during an alarm condition.



Name of Test: RF Power Output (Radiated)

Specification: 47 CFR 2.1046(a)

Test Equipment

Asset	Description	s/n	Cycle	Last Cal
Transducer				
	i00088 EMCO 3109-B 25MHz-300MHz	2336	24 mo.	Sep-03
X	i00089 Aprel 2001 200MHz-1GHz	001500	24 mo.	Sep-03
X	i00103 EMCO 3115 1GHz-18GHz	9208-3925	24 mo.	Jan-04
Amplifier				
X	i00028 HP 8449A	2749A00121	12 mo.	May-04
Spectrum Analyzer				
X	i00029 HP 8563E	3213A00104	12 mo.	May-04
X	i00033 HP 85462A	3625A00357	12 mo.	Jul-04

Measurement Procedure (Radiated)

1. The EUT was placed on an open-field site and its radiated field strength at a known distance was measured by means of a spectrum analyzer. Equivalent loading was calculated from the equation $P_t = (E \times R)^2 / 49.2$ watts, where $R = 3m$.
2. Measurement accuracy is ± 1.5 dB.

Measurement Results

g0530056: 2005-Mar-03 Thu 14:55:00

State: 2:High Power

Ambient Temperature: $23^{\circ}\text{C} \pm 3^{\circ}\text{C}$

Amps Mode:

Frequency Tuned, MHz	Frequency Emission, MHz	Meter, dBuV/m	CF, dB	Calc, uV/m @ 3m	Limit, uV/m @ 3m
315.000000	315.053000	58.46	15.62	5058.0	6041.7

Performed by:

A handwritten signature in black ink, appearing to read "Bobby Leanio".

Bobby Leanio

Name of Test: Field Strength of Spurious Radiation

Specification: 47 CFR 2.1053(a)

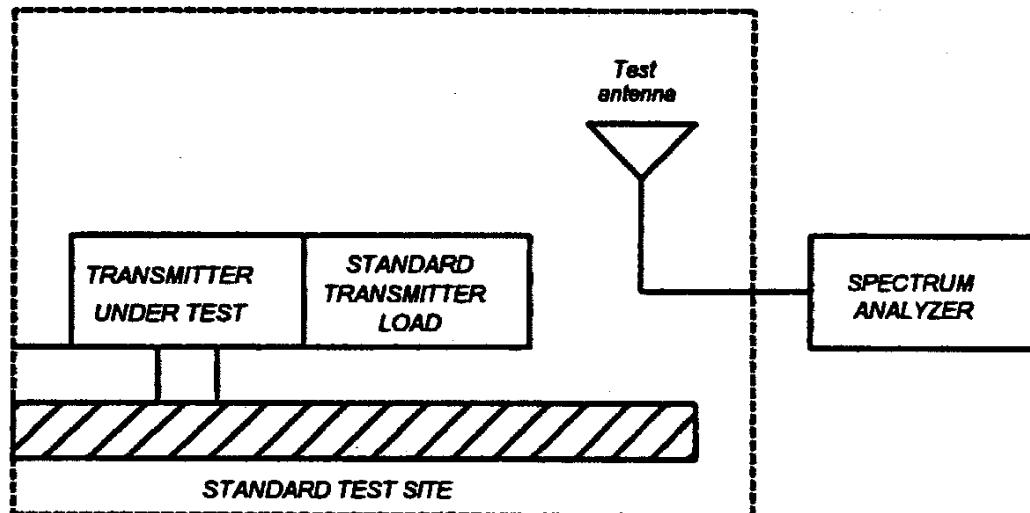
Guide: ANSI/TIA/EIA-603-1992/2001, Paragraph 1.2.12 and Table 16, 47 CFR 22.917

Measurement Procedure

1.2.12.1 Definition: Radiated spurious emissions are emissions from the equipment when transmitting into a non-radiating load on a frequency or frequencies which are outside an occupied band sufficient to ensure transmission of information of required quality for the class of communications desired.

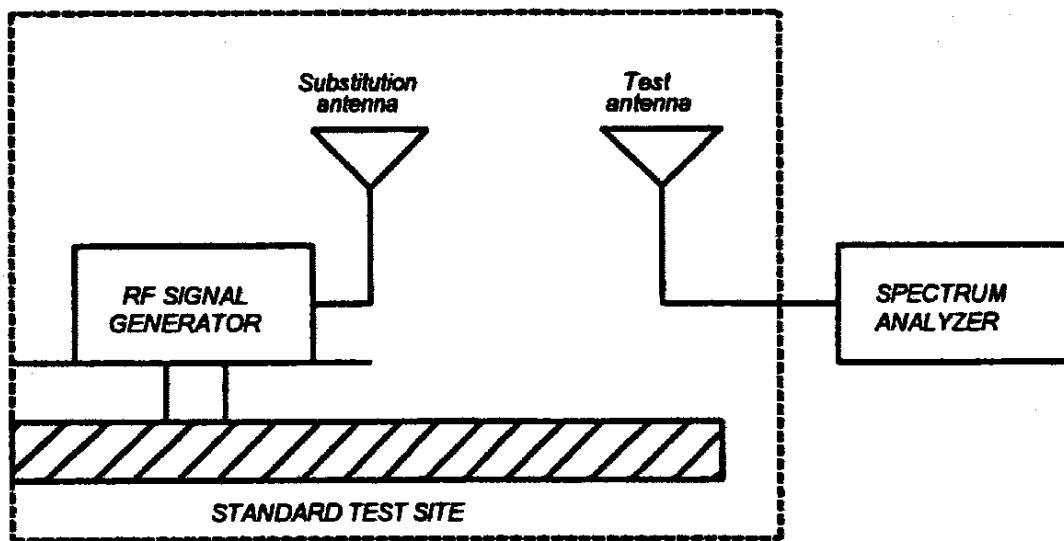
1.2.12.2 Method of Measurement

- A) Connect the equipment as illustrated
- B) Adjust the spectrum analyzer for the following settings:
 - 1) Resolution Bandwidth 100 kHz (<1 GHZ), 1 MHZ (> 1GHz).
 - 2) Video Bandwidth = 3 times Resolution Bandwidth, or 30 kHz (22.917)
 - 3) Sweep Speed \leq 2000 Hz/second
 - 4) Detector Mode = Mean or Average Power
- C) Place the transmitter to be tested on the turntable in the standard test site. The transmitter is transmitting into a non-radiating load which is placed on the turntable. The RF cable to this load should be of minimum length.



Name of Test: Field Strength of Spurious Radiation (Cont.)

- D) For each spurious measurement the test antenna should be adjusted to the correct length for the frequency involved. This length may be determined from a calibration ruler supplied with the equipment. Measurements shall be made from the lowest radio frequency generated in the equipment to the tenth harmonic of the carrier, except for the region close to the carrier equal to \pm the test bandwidth (see section 1.3.4.4).
- E) For each spurious frequency, raise and lower the test antenna from 1 m to 4 m to obtain a maximum reading on the spectrum analyzer with the test antenna at horizontal polarity. Repeat this procedure to obtain the highest possible reading. Record this maximum reading.
- F) Repeat step E) for each spurious frequency with the test antenna polarized vertically.



- G) Reconnect the equipment as illustrated.
- H) Keep the spectrum analyzer adjusted as in step B).
- I) Remove the transmitter and replace it with a substitution antenna (the antenna should be half-wavelength for each frequency involved). The center of the substitution antenna should be approximately at the same location as the center of the transmitter. At lower frequencies, where the substitution antenna is very long, this will be impossible to achieve when the antenna is polarized vertically. In such case the lower end of the antenna should be 0.3 m above the ground.

Name of Test: Field Strength of Spurious Radiation (Cont.)

J) Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a non-radiating cable. With the antennas at both ends horizontally polarized and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.

K) Repeat step J) with both antennas vertically polarized for each spurious frequency.

L) Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps J) and K) by the power loss in the cable between the generator and the antenna and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna.

M) The levels recorded in step L) are absolute levels of radiated spurious emissions in dBm. The radiated spurious emissions in dB can be calculated by the following:

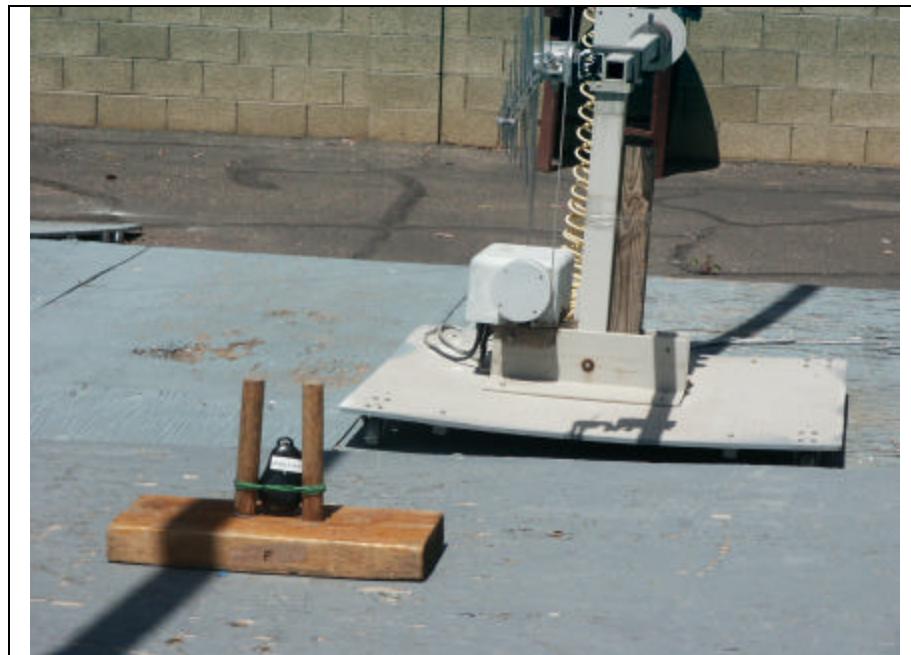
$$\text{Radiated spurious emissions dB} = 10\log_{10}(\text{TX power in watts}/0.001) - \text{the levels in step I)}$$

Note: It is permissible that other antennas provided can be referenced to a dipole.

Test Equipment:					
Asset	Description		s/n	Cycle	Last Cal
Transducer					
	i00088	EMCO 3109-B 25MHz-300MHz	2336	24 mo.	Sep-03
X	i00089	Aprel 2001 200MHz-1GHz	001500	24 mo.	Sep-03
X	i00103	EMCO 3115 1GHz-18GHz	9208-3925	24 mo.	Jan-04
Amplifier					
X	i00028	HP 8449A	2749A00121	12 mo.	May-04
Spectrum Analyzer					
X	i00029	HP 8563E	3213A00104	12 mo.	May-04
X	i00033	HP 85462A	3625A00357	12 mo.	Sep-04
Substitution Generator					
X	i00067	HP 8920A Communication TS	3345U01242	12 mo.	Jun-04
	i00207	HP 8753D Network Analyzer	3410A08514	12 mo.	Jul-04

Test Setup: Radiated Emissions

State:



Name of Test: Field Strength of Spurious Radiation

g0530055: 2005-Mar-03 Thu 11:21:00

State: 2:High Power

Frequency Tuned, MHz	Frequency Emission, MHz	Meter, dBuV	CF, dB	Calc, uV/m @ 3m	Limit, uV/m @ 3m
315.000000	630.085000	28.25	P-	25.26	467.10
315.000000	945.125000	14.01	P-	27.79	123.03
315.000000	1260.131300	19.04	P-	26.44	187.93
315.000000	1575.239500	38.90	PR	-0.90	79.43
315.000000	1890.287834	35.90	P-	1.29	72.36
315.000000	2205.327834	30.57	PR	2.07	42.85
315.000000	2520.375834	24.00	P-	2.82	21.93
315.000000	2835.415834	22.17	PR	2.56	17.24
315.000000	3150.537500	25.50	P-	3.42	27.93

(P: Peak reading, A: Average reading / R: Restricted Band)



Bobby Leanio, Test Technician

Performed by:

Name of Test: Emission Masks (Occupied Bandwidth)

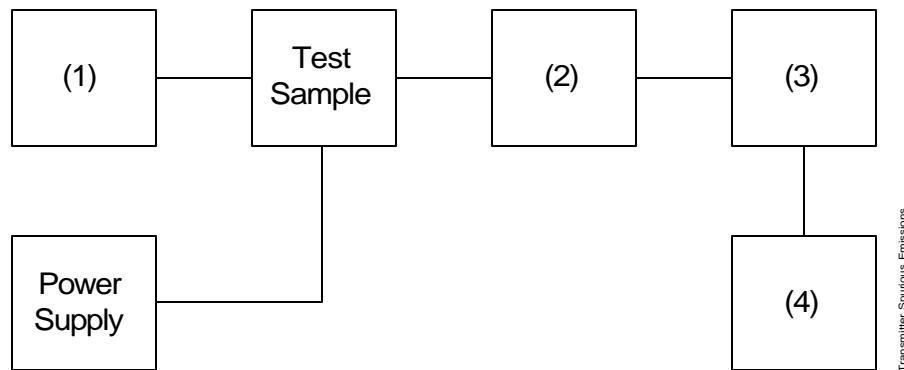
Specification: 47 CFR 2.1049(c)(1)

Guide: ANSI/TIA/EIA-603-1992, Paragraph 2.2.11

Measurement Procedure

- A) The EUT and test equipment were set up as shown below
- B) For EUTs supporting audio modulation, the audio signal generator was adjusted to the frequency of maximum response and with output level set for $\pm 2.5/\pm 1.25$ kHz deviation (or 50% modulation). With level constant, the signal level was increased 16 dB.
- C) For EUTs supporting digital modulation, the digital modulation mode was operated to its maximum extent.
- D) The Occupied Bandwidth was measured with the Spectrum Analyzer controls set as shown on the test results.

Transmitter Test Set-Up: Occupied Bandwidth



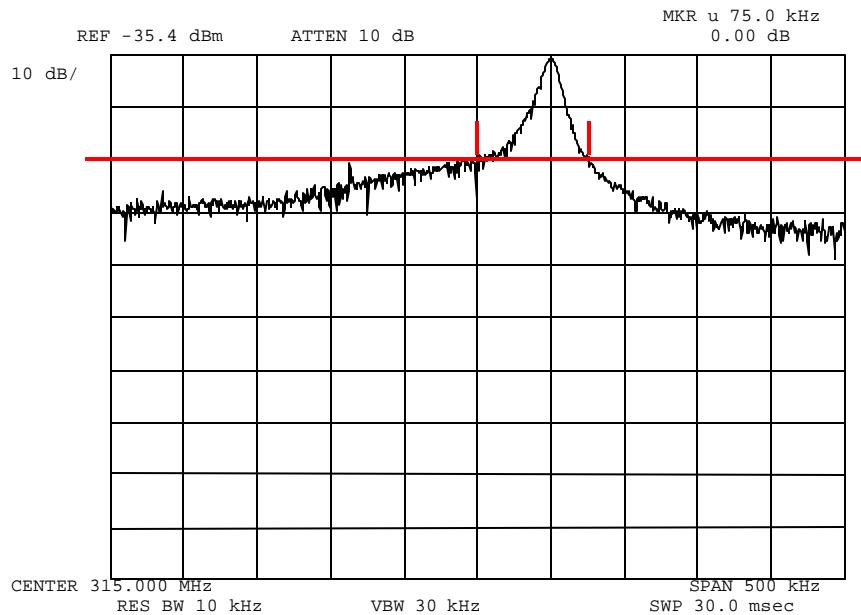
Asset	Description	s/n	Cycle	Last Cal
(1) Audio Oscillator/Generator				
X i00017	HP 8903A Modulation Meter	2216A01753	12 mo.	Apr-04
(2) Coaxial Attenuator				
X i00231/2	PASTERACK PE7021-30 (30 dB)	231 or 232	NCR	
i00123	NARDA 766 (10 dB)	7802A	NCR	
(3) Interface				
X i00021	HP 8954A Transceiver Interface	2146A00159	NCR	
(4) Spectrum Analyzer				
X i00048	HP 8566B Spectrum Analyzer	2511A01467	12 mo.	Oct-04
i00029	HP 8563E Spectrum Analyzer	3213A00104	12 mo.	May-04

Name of Test: Emission Masks (Occupied Bandwidth)

Measurement Results

g0540001: 2005-Apr-05 Tue 08:49:00

State: 2:High Power



Power: High
 Bandwidth (20dB points): 75kHz (Limit = 787.5kHz)
 Frequency: 315.050Mhz

Performed by:



Bobby Leanio



Radiated Measurements For Part 15 Transmitters W/ Integral Antennas

Radiated Measurements

Range Of Measurement	Specification	Resolution B/W	Video B/A
30 to 1000 MHz	CISPR	≥ 100 kHz	≥ 100 kHz
>1000 MHz (if averaging)	FCC, 15.37(b)	1 MHz	≥ 1 MHz
	FCC, 15.37(b)	1 MHz	10 Hz

Measuring Equipment

a. Antennas:

EMCO 3109	20 - 300 MHz
APREL AALP2001	200 - 1000 MHz
APREL AAB20200	20 - 200 MHz
APREL AAH118	1 - 18 GHz

b. Instruments:

HP8566B	Spectrum Analyzer
HP85685A	Preselector, w/ preamp below 2 GHz
HP85650A	Quasi Peak Adapter
HP8449	Preamp, above 2 GHz

All test instrumentation is calibrated annually. In addition, all test instrumentation is verified daily, or as required by the manufacturer

Occupied Bandwidth

Occupied Bandwidth is measured as a radiated signal without attenuators and/or filter. RBW, VBW and scan settings as shown were set to produce a meaningful result in accordance with ANSI C63.4, Section 13.1.7.

Part 15.21, Information to User

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly avoided by the party responsible for compliance could void the user's authority to operate the equipment.



§ 15.205 Restricted Bands of Operation

(a) Except as shown in paragraph (b) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.25
0.495-0.505	16.69475-16.69625	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2655-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-339.4	3600-4400	
13.36-13.41			

Testimonial
And
Statement Of Certification

This is to certify that:

1. **That** the application was prepared either by, or under the direct supervision of, the undersigned.
2. **That** the technical data supplied with the application was taken under my direction and supervision.
3. **That** the data was obtained on representative units, randomly selected.
4. **That**, to the best of my knowledge and belief, the facts set forth in the application and accompanying technical data are true and correct.



Certifying Engineer:

David E. Lee, Compliance Test Manager