$\nearrow$	M. Flom International 3356 N. San Marcos Place, Suite 107 Chandler, AZ 85225	Associate compliance Testing toll-free: (866) 311-3268 fax: (480) 926-3598	Es, Inc. Laboratory http://www.mflom.com
Date:	September 12, 2005		
Applicant:	International Electronics 5913 NE 127th Ave, Suite Vancouver, WA 98682		
Attention of:	Shary Nassimi, President (360) 241-9090 email: iei@nwlink.com		
Equipment: FCC ID: P.O. Number: FCC Rules:	GAP1 JLFGAP1 13181 15.249		

Gentlemen:

Enclosed please find your copy of the Engineering Test Report for which you are subject to the restrictions as listed on the attached summary.

As you know, the FCC, after a TCB issues a Grant, still has 30 days to review a submission and request added information. It is your decision whether or not to market the equipment subject to a possible recall before the end of the 30 days.

If your equipment is still retained by us, it will be returned to you 30 days after approval is achieved. Our invoice for services has been directed to your Accounts Payable Department.

Should you need any clarification, just fax or phone. Thank you again for this order - it has been a pleasure to be of service.

Sincerely yours,

Michael Schafer, President

enclosure(s) MS/ca





3356 N. San Marcos Place, Suite 107 Chandler, AZ 85225 toll-free: (866) 311-3268 fax: (480) 926-3598 http://www.mflom.com info@mflom.com

# Memo

Date:

September 12, 2005

Applicant:

International Electronics Inc. 5913 NE 127th Ave, Suite 800 Vancouver, WA 98682

Equipment:GAP1FCC ID:JLFGAP1

Please note that the enclosed Reports reflect the results of tests performed to the currently published Federal Communications Commissions Rules and Regulations.

Should the FCC's Examiners' interpretations request new and unpublished requirements, we will be pleased to provide them. We will invoice you accordingly, i.e. for the time spent on re-testing, providing the amended pages and/or Reports and for the time necessary to be spent on electronic filing. We will of course provide you with copies of any of the additions.

We regret any added expense to the Applicants, but of late the FCC continues to change their requirements without any prior written publication and/or notices.

As in the past, we will continue to provide all liaison with the FCC necessary for the successful conclusion of your project and the receipt of your Grant of Equipment Authorization.

Sincerely yours,

David E. Lee, Compliance Test Manager



Date:

September 12, 2005

Federal Communications Commission Via: Electronic Filing

Attention:Authorization & Evaluation DivisionApplicant:International Electronics Inc.

Applicant:International Electronics Inc.Equipment:GAP1FCC ID:JLFGAP1FCC Rules:15.249

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,

Michael Schafer, President

enclosure(s) cc: Applicant MS/del



# **Transmitter Certification**

of

FCC ID: JLFGAP1 Model: GAP1

to

# Federal Communications Commission

Rule Part(s) 15.249

Date Of Report: September 23, 2005

On the Behalf of the Applicant:

International Electronics Inc.

At the Request of:

International Electronics Inc. 5913 NE 127th Ave, Suite 800 Vancouver, WA 98682

Attention of:

Shary Nassimi, President (360) 241-9090 email: iei@nwlink.com

David E. Lee, Quality Assurance Manager

Supervised By:

P.O. 13181



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

Applicant:	International Electronics Inc.
FCC ID:	JLFGAP1
By Applicant:	
	1. Letter Of Authorization
	2 Identification Drawings

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 Block Diagram
    - Active Devices

By M.F.A. Inc.

A. Testimonial & Statement of Certification



# 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.



# **Table Of Contents**

Rule	Description	Page
	Test Report	1
2.1033(c)	General Information Required	2
	Standard Test Conditions and Engineering Practices	5
2.1046(a)	RF Carrier Power (Radiated)	6
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2.1049(c)(1)	Emission Masks (Occupied Bandwidth)	12
2.202(g)	Necessary Bandwidth and Emission Bandwidth	22



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:	d0590071
d) Client:	International Electronics Inc. 5913 NE 127th Ave, Suite 800 Vancouver, WA 98682
e) Identification:	GAP1 FCC ID: JLFGAP1
Description:	Gate Access Panel
f) EUT Condition:	Not required unless specified in individual tests.
g) Report Date: EUT Received:	September 23, 2005 September 8, 2005
h, j, k):	As indicated in individual tests.
i) Sampling method:	No sampling procedure used.
I) Uncertainty:	In accordance with MFA internal quality manual.
m) Supervised by:	1 des
	David E. Lee, Quality Assurance 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 15.249

Sub-Part 2.1033 (c)(1): Name and Address of Applicant:

> International Electronics Inc. 5913 NE 127th Ave, Suite 800 Vancouver, WA 98682

Manufacturer: Applicant	
(c)(2): <b>FCC ID</b> :	JLFGAP1
Model Number:	GAP1
(c)(3): Instruction Manual(s):	
Please See Attached Exhibits	
(c)(4): Type of Emission:	FSK
(c)(5): FREQUENCY RANGE, MHz:	903 to 927
(c)(6): Power Rating, W: Switchable Variable	30.5 mv/m @ 3m N/A
(c)(7): Maximum Power Rating, W:	50 mv/m @ 3m
15.203: Antenna Requirement: X The antenna is permanently attached to the The antenna uses a unique coupling The EUT must be professionally installed	he EUT

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	=	0.025
Collector Voltage, Vdc	=	3.6
Supply Voltage, Vdc	=	6.0

## (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



Sub-part 2.1033(b):

#### **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
- 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)
- X 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 ANSIC63.4-1992/2000, 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.

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



Name of Test: RF Carrier Power (Radiated)

Specification: ANSI C.63.4

# **Measurement Procedure**

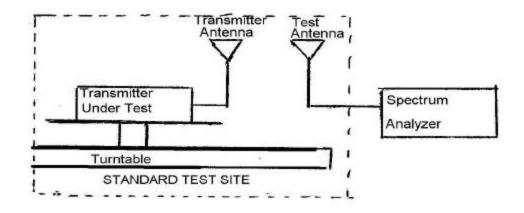
#### Method of Measurement:

A) Connect the equipment as illustrated. Place the transmitter to be tested on the turntable in the standard test site.

Adjust the spectrum analyzer for the following settings:

1) Resolution Bandwidth 100 kHz (<1 GHZ), 1 MHZ (> 1GHz).

2) Detector Mode = Peak



B) Raise and lower the test antenna from 1m to 4 m with the transmitter facing the antenna and record the highest received signal.

Frequency	Frequency Emission,	Pol.	Meter, dBuV	CF, dB	Calc, dBuV	mV/m @ 3m
Tuned, MHz	MHz					
903.250000	903.195000	V	56.48	25.15	81.63	12.064
903.250000	903.310000	Н	44.12	25.15	69.27	2.907
915.700000	915.750000	V	61.16	25.19	86.35	20.773
915.700000	915.750000	Н	48.22	25.19	73.41	4.682
926.700000	926.700000	Н	51.52	25.23	76.75	6.878
926.700000	926.810000	V	64.45	25.23	89.68	30.478



RF Carrier Power (Radiated)

# **Test Equipment**

	Asset	Description	s/n	Cycle	Last Cal
X X	i00089 i00103	Tı Aprel 2001 200MHz-1GHz EMCO 3115 1GHz-18GHz	ransducer 001500 9208-3925	24 mo. 24 mo.	Sep-03 Jan-04
х	i00028	нр 8449А	Amplifier 2749A00121	12 mo.	May-05
X X	i00029 i00033	Spect HP 8563E HP 85462A	rum Analyzer 3213A00104 3625A00357	12 mo. 12 mo.	May-05 Sept-04

g0590089: 2005-Sep-09 Fri 15:02:00 State: 2:High Power

Ambient Temperature: 23°C ± 3°C

Fied Charle-

Performed By:

Name of Test:

Fred Chastain, Test Technician



Name of Test: Field Strength of Spurious Radiation

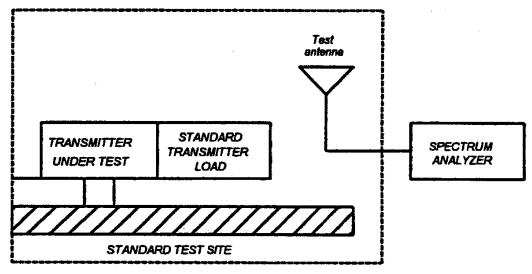
Specification: 47 CFR 2.1053(a)

Guide: ANSI C.63.4, 47 CFR 15

# **Measurement Procedure**

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) Detector Mode = Peak & Quasi Peak
- C) Place the transmitter to be tested on the turntable in the standard test site.

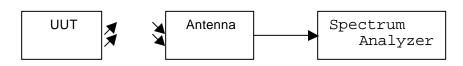




# Name of Test: Field Strength of Spurious Radiation (Cont.)

- D) For each spurious frequency, raise and lower the test antenna from 1 m to 4 m and rotate the EUT 360 degrees 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.
- E) Repeat step D) for each spurious frequency with the test antenna polarized vertically.

**Test Setup** 



Tes	t Equipment	:			
	Asset	Description	s/n	Cycle	Last Cal
	(as applica	ble)			
Tra	nsducer				
Х	i00088	EMCO 3109-B 25MHz-300MHz	2336	24 mo.	Sep-03
Х	i00089	Aprel 2001 200MHz-1GHz	001500	24 mo.	Sep-03
Х	i00103	EMCO 3115 1GHz-18GHz	9208-3925	24 mo.	Jan-04
Amj	olifier				
Х	i00028	HP 8449A	2749A00121	12 mo.	May-05
Spe	ctrum Analy	yzer			
Х	i00029	HP 8563E	3213A00104	12 mo.	May-05
Х	i00033	HP 85462A	3625A00357	12 mo.	Oct-04



Name of Test:Field Strength of Spurious Radiationg0590100: 2005-Sep-12 Mon 15:50:00State: 2:High Power

Frequency Tuned,	Frequency Emission,	Meter,	CF, dB	uV/m @ 3m	Margin, dB
MHz	MHz	dBuV			
903.350000	1806.600000	37.60	1.15	86.60	-15.3
915.750000	1831.366667	36.77	1.19	79.07	-16.0
926.750000	1853.366667	33.43	1.23	54.08	-19.3
903.350000	2709.950000	36.27	2.66	88.41	-15.1
915.750000	2747.066667	35.10	2.63	77.00	-16.3
926.750000	2780.066667	35.60	2.60	81.28	-15.8
903.350000	3613.300000	33.93	6.60	106.29	-13.5
915.750000	3662.766667	32.77	7.06	98.06	-14.2
926.750000	3706.766667	34.10	7.45	119.54	-12.5
903.350000	4516.650000	31.43	9.40	110.03	-13.2
915.750000	4578.466667	32.27	9.38	120.92	-12.4
926.750000	4633.466667	35.27	9.36	170.41	-9.4
903.350000	5420.000000	32.27	9.34	120.36	-12.4
915.750000	5494.166667	30.43	9.36	97.61	-14.2
926.750000	5560.166667	32.77	9.61	131.52	-11.6
903.350000	6323.350000	31.43	10.74	128.38	-11.8
915.750000	6409.866667	30.60	10.58	114.55	-12.8
926.750000	6486.866667	33.93	10.44	165.39	-9.6
903.350000	7226.700000	30.10	11.37	118.44	-12.5
915.750000	7325.566667	33.27	11.85	180.30	-8.9
926.750000	7413.566667	31.43	12.27	153.11	-10.3
903.350000	8130.050000	32.27	14.92	228.82	-6.8
915.750000	8241.266667	32.43	14.97	234.42	-6.6
926.750000	8340.266667	31.27	15.01	206.06	-7.7
903.350000	9033.400000	35.60	11.44	224.91	-7.0
915.750000	9156.966667	32.10	13.01	180.09	-8.9
926.750000	9266.966667	33.10	14.39	236.86	-6.5

Fred Thasto-

Fred Chastain, Test Technician



Name of Test:	Radiated Spurious Emissions (Non-Harmonic)
Specification:	47 CFR 15.249(c)
Guide:	ANSI C.63.4
Test Equipment:	As per previous page

15.249(c):

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emissions limits in § 15.209, whichever is the lesser attenuation.

#### General Radiated Emission Limits Per 15.209:

Frequency, MHz	Field Strength, µV/m @ 3m		
30 - 88	100		
88 - 216	150		
216 - 960	200		
Above 960	300		
Frequency of Carrier, MHz	= 903.25, 926.75, 915.70		
Spectrum Searched	= 30MHz to 1GHz		
All Other Emissions	= = 20 dB Below Limit		
Limit, μV /m @ 3m	= 50 dBc or § 15.209		

g0590053: 2005-Sep-13 Tue 11:16:00

State: 0:General

	Frequency Emission, MHz	Level, dBuV @	m	C.F., dB	μV/m @m	Margin, dB
_	40.000000	23.00	3	12.32	58.34 3	-4.7
	59.300000	12.14	3	10.23	13.14 3	-17.6
	93.990000	11.88	3	8.90	10.94 3	-22.2
	125.313000	21.05	3	11.56	42.71 3	-10.4
	258.750000	20.08	3	18.42	84.14 3	-7.5
	275.825000	14.09	3	21.62	61.02 3	-10.3
	321.391000	13.73	3	15.76	29.82 3	-16.5
	421.763000	20.35	3	17.87	81.47 3	-7.8
	742.800000	7.42	3	25.87	46.18 3	-12.7
	770.563000	-3.94	3	25.50	11.97 3	-24.4
	902.588000	8.54	3	26.22	54.70 3	-11.2

Fied Thirto-

Fred Chastain, Test Technician



 Name of Test:
 Emission Masks (Occupied Bandwidth)

Specification: 47 CFR 15

Guide: ANSI C.63.4

Test Equipment: As per previous page

# **Measurement Procedure**

- 1. The EUT and test equipment were set up as shown on the following page, with the Spectrum Analyzer connected.
- 2. For EUTs supporting digital modulation, the digital modulation mode was operated to its maximum extent.
- 4. The Occupied Bandwidth was measured with the Spectrum Analyzer controls set as shown on the test results.
- 5. Measurement Results: Attached



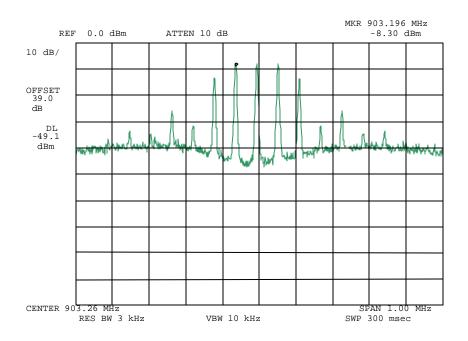
# Transmitter Spurious Emission

# Test A. Occupied Bandwidth (In-Band Spurious) Test B. Out-of-Band Spurious

Test Setup				
	UUT Antenna	Spectr Ana	rum alyzer	
Asset (as applica	Description able)	s/n		
(1) <b>Coaxial Atte</b> X i00231/2 i00123	e <b>nuator</b> PASTERNACK PE7021-30 (30 dB) NARDA 766 (10 dB)	231 or 232 7802A	NCR NCR	
(2) <b>Spectrum A</b> X i00048 i00029	<b>nalyzer</b> HP 8566B Spectrum Analyzer HP 8563E Spectrum Analyzer	2511A01467 3213A00104	12 mo. 12 mo.	Oct-04 May-05



Name of Test:Emission Masks (Occupied Bandwidth)g0590095: 2005-Sep-12 Mon 10:35:00State: 0:General



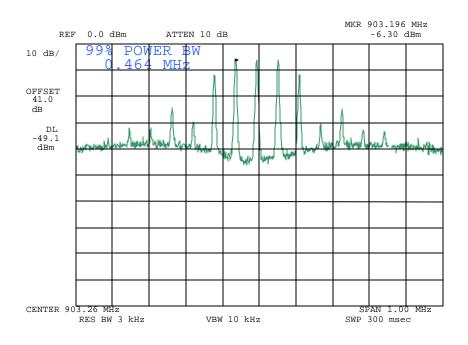
Power: Modulation: LOOSE COUPLED LO CHANNEL

Fred Charle

Fred Chastain, Test Technician



Name of Test:Emission Masks (Occupied Bandwidth)g0590097: 2005-Sep-12 Mon 10:39:00State: 0:General



Power: Modulation: LOOSE COUPLED MID CHAN 99% BW

David E. Lee, Compliance Test Manager

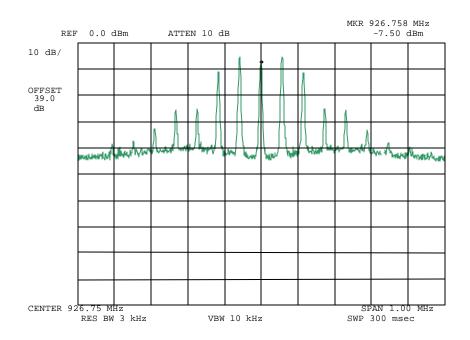
Supervised By:

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

Page 15 of 22 FCC ID: JLFGAP1 MFA p0590007, d0590071



Name of Test:Emission Masks (Occupied Bandwidth)g0590090: 2005-Sep-12 Mon 10:28:00State: 0:General



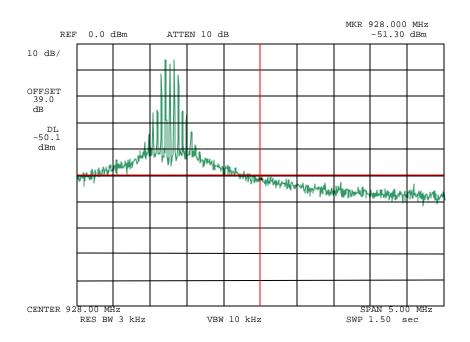
Power: Modulation: LOOSE COUPLED HI CHANNEL

Fred Charle

Fred Chastain, Test Technician



Name of Test: Emission Masks (Band Edge) g0590093: 2005-Sep-12 Mon 10:31:00 State: 0:General



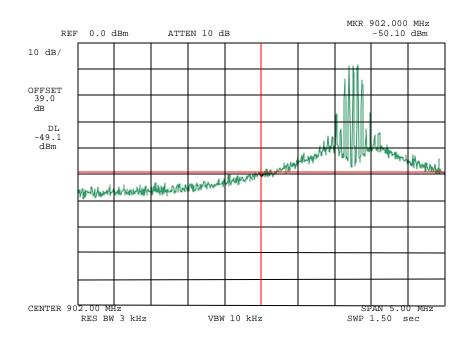
Power: Modulation: LOOSE COUPLED HI BAND EDGE

Fred Charle

Fred Chastain, Test Technician



Name of Test: Emission Masks (Band Edge) g0590094: 2005-Sep-12 Mon 10:33:00 State: 0:General



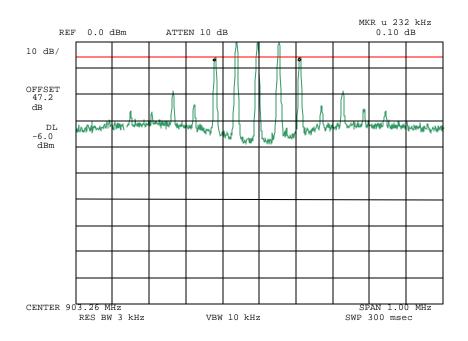
Power: Modulation: LOOSE COUPLED LO BAND EDGE

Fred Charle

Fred Chastain, Test Technician



Name of Test:Emission Masks (Occupied Bandwidth)g0590098: 2005-Sep-12 Mon 10:41:00State: 0:General



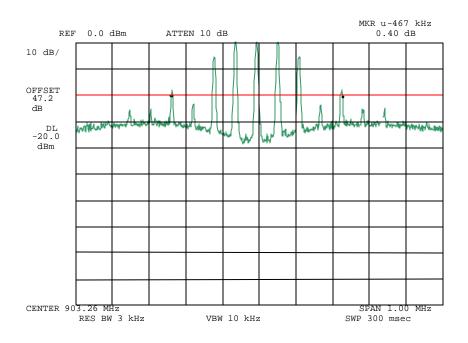
Power: Modulation: LOOSE COUPLED LO CHAN 6DB BW

Fred Charle

Fred Chastain, Test Technician



Name of Test:Emission Masks (Occupied Bandwidth)g0590099: 2005-Sep-12 Mon 10:43:00State: 0:General



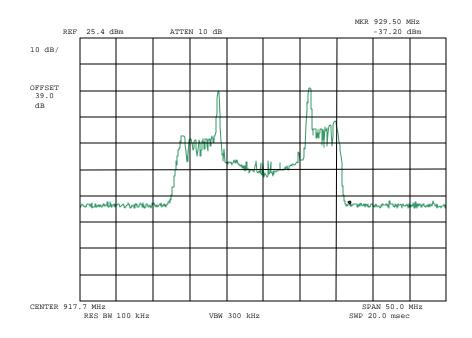
Power: Modulation: LOOSE COUPLED LO CHAN 20DB BW

Fred Charle

Fred Chastain, Test Technician



Name of Test:Emission Masks (Occupied Bandwidth)g0590087: 2005-Sep-12 Mon 10:16:00State: 0:General



Power: Modulation: LOOSE COUPLED NORMAL OPERATION

Fred Tharto-

Fred Chastain, Test Technician



# Radiated Measurements For Part 15 Transmitters with Integral Antennas

#### **Radiated Measurements**

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

## **Measuring Equipment**

#### a. Antennas:

20 - 300 MHz
200 - 1000 MHz
20 - 200 MHz
1 - 18 GHz

# b. Instruments:

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

All test instrumentation is calibrated every January and every July. In addition, all test instrumentation is calibrated daily, or as required by the manufacturer. A Calibration Agreement is maintained with Hewlett Packard.

#### 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, Quality Assurance Manager