

**FCC CFR47 CERTIFICATION**  
**PARTS 22, 90**  
**TEST REPORT**  
**FOR**  
**CELLULAR & LAND MOBILE RADIO REPEATER**

**FCC ID:OJFLITENNA0LF0SP1**

**ISSUE DATE: March 22, 2001**

*Prepared for*

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**Northern Industrial Zone**  
**Lod, Israel 71293**

*Tested by*

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<b>TABLE OF CONTENTS</b>	<b>PAGE</b>
<b>1. FCC CERTIFICATION INFORMATION .....</b>	<b>1</b>
<b>2. TEST FACILITY .....</b>	<b>4</b>
<b>3. ACCREDITATION AND LISTING .....</b>	<b>4</b>
<b>4. MEASUREMENT INSTRUMENTATION.....</b>	<b>4</b>
<b>5. MEASURING INSTRUMENT CALIBRATION .....</b>	<b>4</b>
<b>6. UNITS OF MEASUREMENT .....</b>	<b>4</b>
<b>7. FCC 15.207 &amp; 15.209.....</b>	<b>5</b>
<b>8. TEST EQUIPMENT LIST.....</b>	<b>6</b>
<b>9. EUT SETUP PHOTOS.....</b>	<b>7</b>
<b>10. EXTERNAL I/O CABLE CONSTRUCTION DESCRIPTION.....</b>	<b>11</b>
<b>11. CONFIGURATION BLOCK DIAGRAM.....</b>	<b>12</b>
<b>12. PART 2: CERTIFICATION TEST REQUIREMENT:.....</b>	<b>12</b>
SECTION 2.1046: RF POWER OUTPUT .....	12
SECTION 2.1047: MODULATION CHARACTERISTICS .....	13
SECTION 2.1049: OCCUPIED BANDWIDTH.....	13
SECTION 2.1051: SPURIOUS EMISSION AT ANTENNA TERMINALS.....	14
SECTION 2.1053: FIELD STRENGTH OF SPURIOUS RADIATION.....	15
SECTION 2.1055: FREQUENCY STABILITY .....	18
CHART OF PLOTS:.....	18
<b>13. RF HAZARD PER 1.1310: CALCULATION OF DISTANCE.....</b>	<b>16</b>

**1. FCC CERTIFICATION INFORMATION**

The following information is in accordance with FCC Rules, 47CFR Part2, Subpart J, Sections 2.1033 – 2.1055.

**2.1033(c)(1) Applicant:** Foxcom Wireless Ltd.  
 Ofek One Center Building B,  
 Northern Industrial Zone  
 Lod, Israel 71293

Contact person: Shlomo Cohen  
 Telephone number: 972-8-9183818

**2.1033(c)(2)** FCC ID: OJFLITENNA0LF0SP1

**2.1033(c)(3) Instructions/Installation Manual**  
 Refer to **Attachment:** User’s Manual.

**2.1033(c)(4) Type of emissions**

DXW (TDMA), F9W (CDMA), F8W(AMPS), F1D (Paging), GXW (iDEN),  
 F3E (LMR), F3E (SMR)

**2.1033(c)(5) Frequency Range**

DOWNLINK	SERVICE
869-894 MHz	AMPS/TDMA/CDMA 800
851-869 MHz	LMR/iDEM 800
935-941 MHz	SMR 900
929-942 MHz	Paging 900

**2.1033(c)(6) Range of Operation Power**

18 dBm – 24 dBm maximum output, depending on modulation. Refer to Litenna Data Sheet, separate attachment, composite 1 carrier

Modulation	Specification (dBm)	I.T.L Data (dBm)	I.T.L Data (W)
(F9W) CDMA 800	24	24.2	0.263
(DXW) TDMA 800	24	25.17	0.328
(F8W) AMPS 800	24	24.67	0.293
(F3E) LMR 800	24	24.6	0.288
(GXW) iDEN 800	24	24.4	0.275
(F3E) SMR 900	24	24.4	0.275
(F1D) Paging 900	24	25	0.316

**2.1033(c)(7) Maximum Power Rating**

0.251 WATTS (24 dBm)

**Section 22.913(a); Maximum ERP.** The effective radiated power (ERP) of base transmitters and cellular repeaters must not exceed 500 Watts.

**Section 90.205(i,j): Maximum Power.** 30-500 watts.

**2.1033(c)(8) Applied voltage and currents into the final transistor elements**

Refer to schematic

**2.1033(c)(9) Tune-up/Optimizations Procedure**

Refer to installation manual

**2.1033(c)(10) Complete Circuit Diagrams and Functional Diagram**

Refer to Schematics and Block Diagram . Confidentiality is requested for these items.

**2.1033(c)(10a) Means for Frequency Stabilization**

Not Applicable. Eut is an amplifier type repeater.

**2.1033(c)(10b) Means for Suppressing of Spurious radiation.**

SAW filter. See Repeater description.

**2.1033(c)(10c) Means for Limiting Modulation.**

Not Applicable. Eut is a repeater.

**2.1033(c)(10d) Means for Limiting Power.**

Software control

**2.1033(c)(11) Equipment Identification**

Refer to separate Word attachment

**2.1033(c)(12) Photographs**

Refer to separate Word attachment

**2.1033(c)(13) Description of Digital Modulation Techniques**

N/A EUT is repeater.

**2.1033(c)(14) Standard Test Condition**

The repeater was tested under the following conditions.

DC Supply from AC-DC adapter: 24 VDC

The amplifier was aligned and tuned up according to manufacturer’s alignment procedure, prior to testing. All data presented represents the worst case parameter being measured.

**2.1033 Description of Various Base Station Configurations**

Not Applicable.

**2.1033 Use of Various Power Supplies**

Not Applicable.

TYPE OF EQUIPMENT:	CELLULAR and Part 90 REPEATER
MEASUREMENT DISTANCE:	3 METER
TECHNICAL LIMIT:	FCC 22.359, 22.917
FCC RULES:	PART 22, 90
EQUIPMENT AUTHORIZATION PROCEDURE	CERTIFICATION
MODIFICATIONS MADE ON EUT	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

The above equipment was tested by Compliance Certification Services for compliance with the requirements set forth in the FCC CFR 47, Parts 2, 22, and 90. The results of testing in this report apply to the product/system, which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

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T.N. Cokenias  
Agent for Foxcom

## **2. TEST FACILITY**

The open area test sites and conducted measurement facilities used to collect the conducted data are located at Kfar Bin Nun 99780 ISRAEL. The sites are constructed in conformance with the requirements of, ANSI C63.4-1992 and CISPR Publication 22. Radiated emissions testing using the substitution method was performed at Compliance Certification Services, 561F Monterey Road, Morgan Hill, CA 95037.

## **3. ACCREDITATION AND LISTING**

The test facilities used to perform radiated and conducted emissions tests are accredited by A2LA (ITL) and by NVLAP (CCS). No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government.

## **4. MEASUREMENT INSTRUMENTATION**

Radiated emissions were measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, ridged waveguide liner horn. EMI receivers were used for line conducted readings, spectrum analyzers with pre-selectors and quasi-peak detectors were used to perform radiated measurements. Receiving equipment (i.e., receiver, analyzer, quasi-peak adapter, pre-selector) and LISNs conform to CISPR specification for "Radio Interference Measuring Apparatus and Measurement Methods," Publication 16.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

## **5. MEASURING INSTRUMENT CALIBRATION**

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

## **6. UNITS OF MEASUREMENT**

Measurements of conducted emissions and intermodulation products are reported in terms of dBm. Using the substitution method for measuring spurious radiated emissions, readings are reported in dBm for comparison with the - 13 dBm limit.

**7. FCC 15.207 & 15.209**

NOT APPLICABLE – no digital devices, no unintentional radiators in EUT



**8. TEST EQUIPMENT LIST**

Equipment	Manufacturer	Model No.	Serial No.	Cal Due Date
Signal Generator	HP	ESG-D3000A	4537231210	10/22/01
Signal Generator	HP	ESG-D4000A	4537230651	10/22/01
Signal Generator	HP	ESG-D3000A	4537040881	10/22/01
Signal Generator	HP	E4431B	45338220140	10/22/01
Signal Generator	HP	E4432B	GB39340672	10/21/01
Signal Generator	HP	E4432B	GB38450502	10/21/01
Spectrum Analyzer	HP	8562E	3846A01017	10/21/01
Spectrum Analyzer*	HP	8593	3710A00205	05/01
Pre-amplifier*	HP	8449B	3008A00369	04/01
Horn Antenna, 1-18GH*	EMCO	3115		
Horn Antenna, 1-18GH*	EMCO	3115	9001-3245	
RF Signal Generator*	HP	83732B	US34490599	02/01

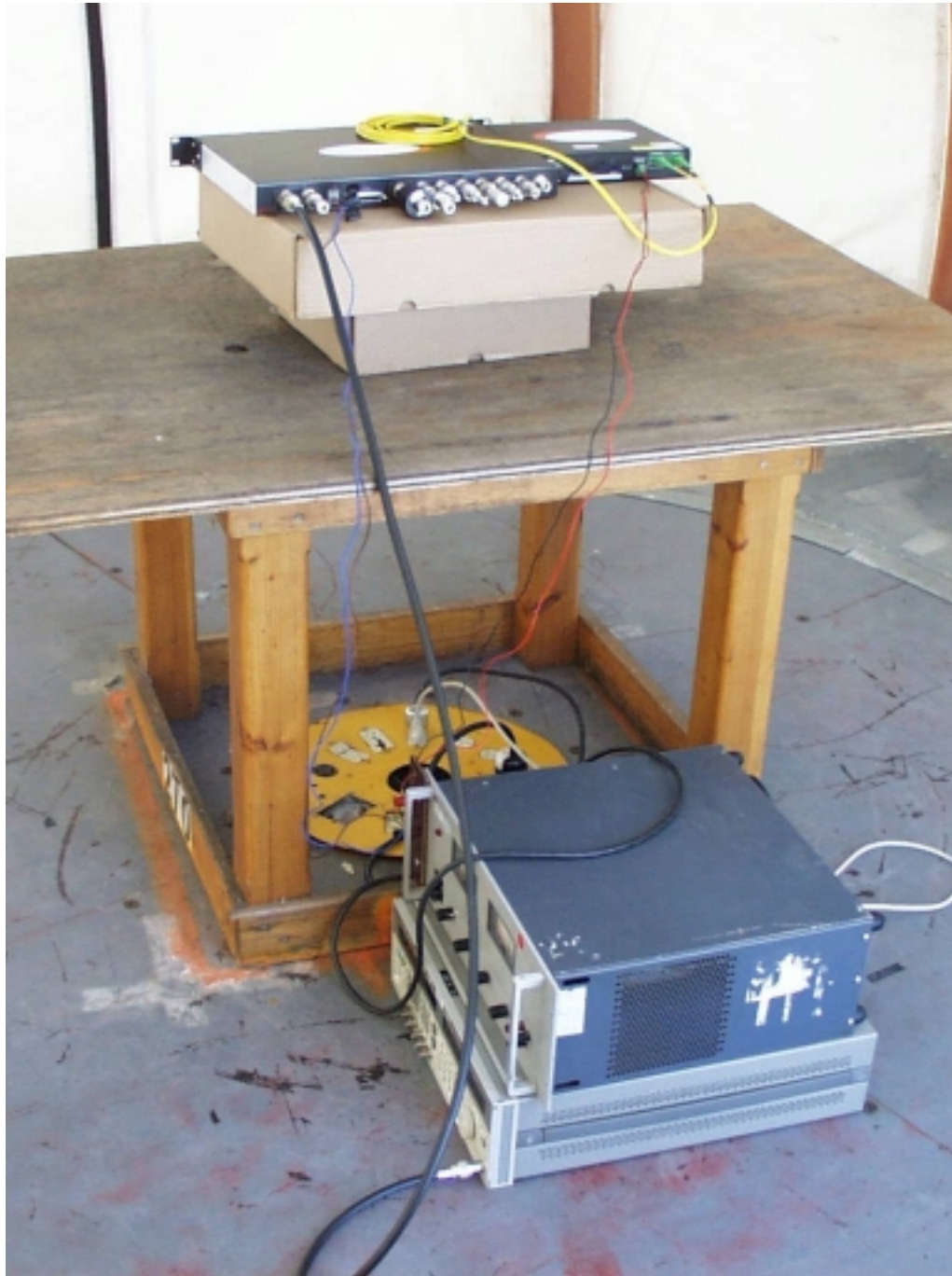
Note: Test equipment I.T.L. except \*=CCS test equipment

## 9. EUT SETUP PHOTOS

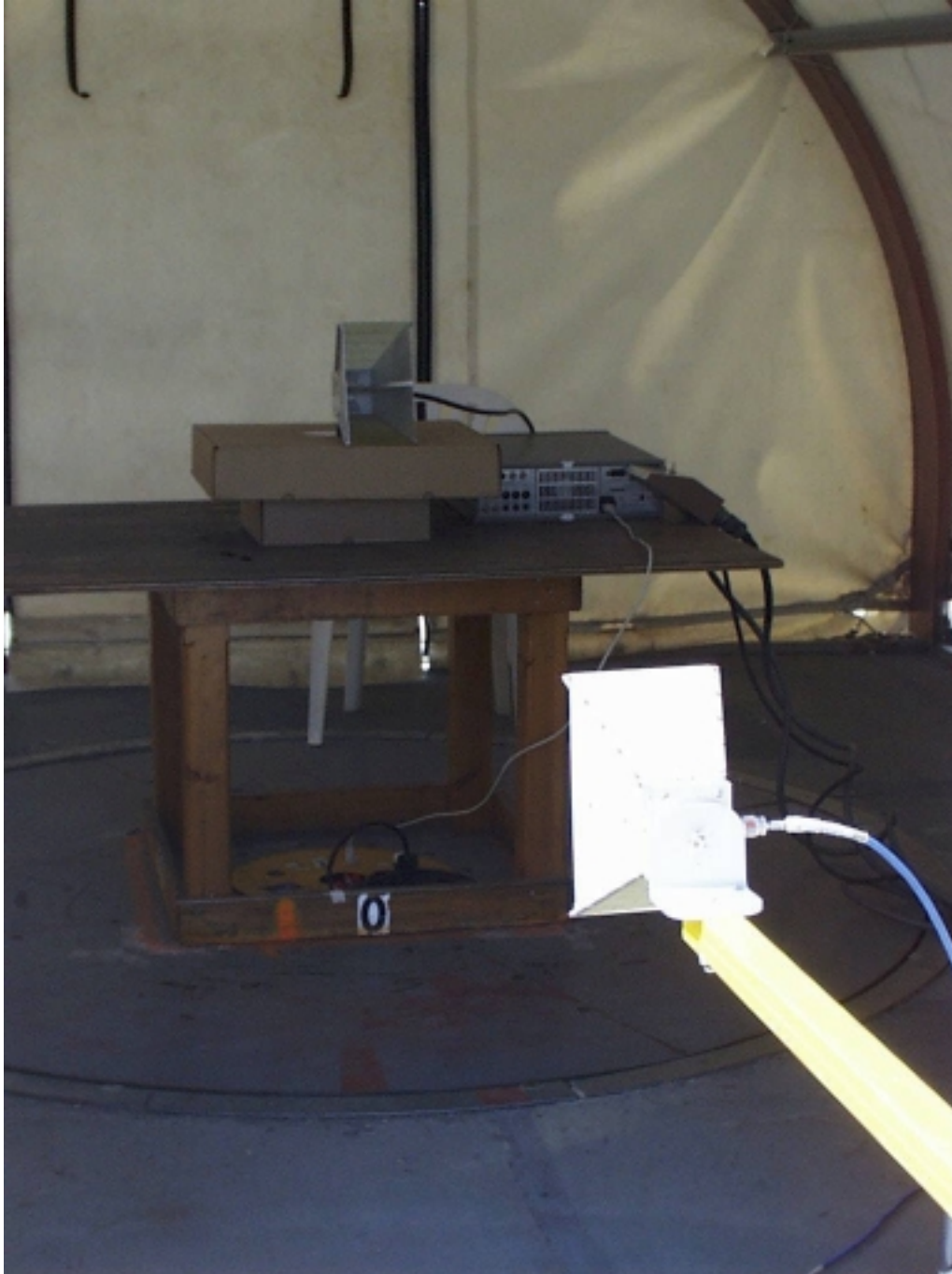
### Conducted Emissions/Intermodulation Tests, I.T.L



**Radiated Emissions Set - Up, CCS**



**Substitution Set - Up, 1 – 10 GHz, CCS**





**10. EXTERNAL I/O CABLE DESCRIPTION**

CABLE NO:1	
I/O Port: : ANTENNA OUT	Number of I/O ports of this type: 4
Number of Conductors: 4	<b>Connector Type: N-TYPE</b>
Capture Type: SCREW IN	<b>Type of Cable used: SHIELDED (to analyzer)</b>
Cable Connector Type: METAL	<b>Cable Length: 1.5 m (to analyzer)</b>
Bundled During Tests: NO	<b>Data Traffic Generated: YES</b>
<b>Remark: 3 terminated 50 ohms, 4<sup>th</sup> to spectrum analyzer</b>	

CABLE NO: 2	
Optical fiber from base to remote unit	
<b>Remark: N/A</b>	

CABLE NO: 3	
I/O Port: : RF IN from building basestation	Number of I/O ports of this type: 1
Number of Conductors: 2	<b>Connector Type: N-TYPE</b>
Capture Type: SCREW IN	<b>Type of Cable used: SHIELDED</b>
Cable Connector Type: METAL	<b>Cable Length: 1.5 M</b>
Bundled During Tests: NO	<b>Data Traffic Generated: YES</b>
<b>Remark: N/A</b>	

## 11. CONFIGURATION BLOCK DIAGRAM

(three gen for intermod test)

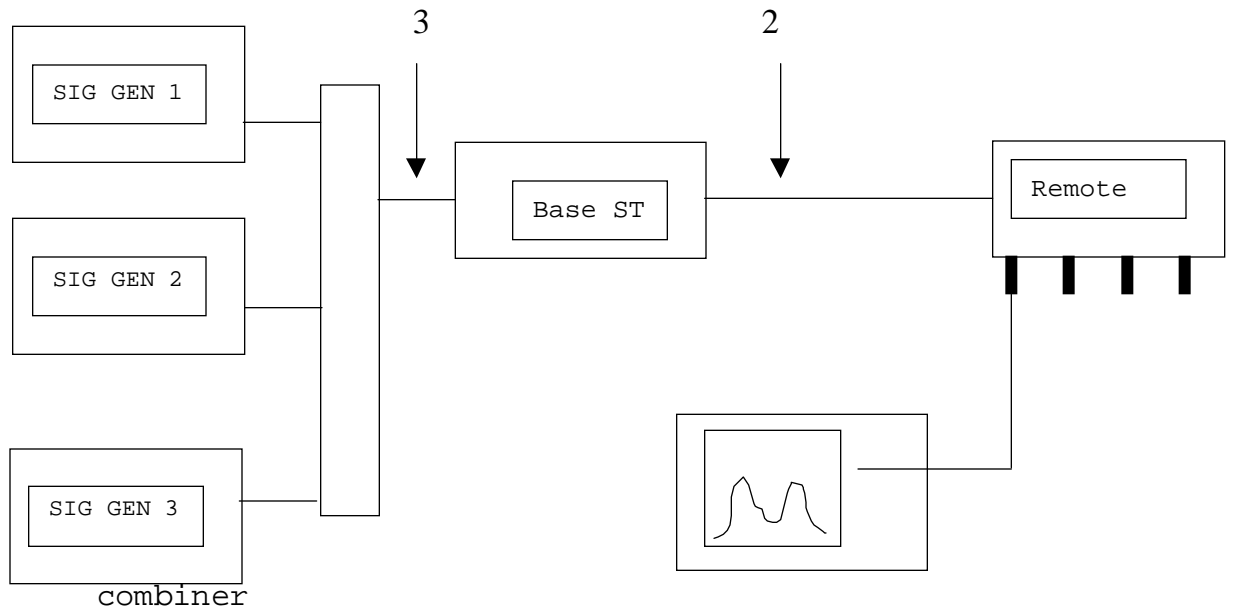


FIGURE 1.

## 12. PART 2: CERTIFICATION TEST REQUIREMENT:

### SECTION 2.1046: RF POWER OUTPUT

**Test Setup: Refer to figure #1**

#### Minimum requirement:

**Section 22.913(a); Maximum ERP.** The effective radiated power (ERP) of base transmitters and cellular repeaters must not exceed 500 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

#### Test procedure:

**Figure 1.** shows the setup for conducted RF power output measurement. RF power output was measured with a power meter. Set the power amplifier to the maximum output gain.

**Test Result:**

Modulation	Specification (dBm)	I.T.L Data (dBm)	I.T.L Data (W)
(F9W) CDMA 800	24	24.2	0.263
(DXW) TDMA 800	24	25.17	0.328
(F8W) AMPS 800	24	24.67	0.293
(F3E) LMR 800	24	24.6	0.288
(GXW) iDEN 800	24	24.4	0.275
(F3E) SMR 900	24	24.4	0.275
(F1D) Paging 900	24	25	0.316

**SECTION 2.1047: MODULATION CHARACTERISTICS**

Not applicable. EUT is a repeater.

**SECTION 2.1049: OCCUPIED BANDWIDTH**

**Test Setup: Refer to figure #1**

**Minimum Requirement:**

**Section 2.1049(i);** transmitters designed for other types of modulation-when modulated by an appropriate signal of sufficient amplitude to be representative of the type of service in which used. A description of the input signal should be supplied.

**Test Procedure:**

The Eut's occupied bandwidth is compared to the input source plot (signal generator) and output plot (power amplifier) and check that the input signal bandwidth is not greater at the output of amplifier.

**Test results:**

Plots were made for the output of the amplifier and another for the input from signal generator. was used for this test. Refer to chart designating plots.



## **SECTION 2.1051: SPURIOUS EMISSION AT ANTENNA TERMINALS**

**Test Setup: Refer to figure #1**

**Minimum Requirement:**

**Section 22.917(e):**

For transmitters the magnitude of each spurious, harmonic, and intermodulation emissions that can be detected when the equipment is operated under conditions specified in the instruction manual and/or alignment procedure, shall not be more than  $43 + 10 \log (P)$  dBc below the mean power output, which is equivalent to  $-13$  dBm.

**Section 22.917(f):**

Measured at REV transmit antenna with 849MHz. Input.

**Test Procedure:**

Scan Eut from 1MHz to the 10<sup>th</sup> harmonic of carrier and check for spurious, harmonic, and intermodulation emissions. Set the **RES Bw**: 30kHz, offset analyzer for external attenuation and using the **DISPLAY LINE** place it at  $-13$ dBm. Use enough attenuation to prevent overload on the spectrum analyzer input, which can cause overload..

**Test results:**

Plots were made for the output of the amplifier and another for the input from signal generator. was used for this test. Refer to chart designating plots.

**SECTION 2.1053: FIELD STRENGTH OF SPURIOUS RADIATION**

**Measurement Equipment Used:**

HP 8593 EM Spectrum Analyzer 9kHz – 26.5 GHz

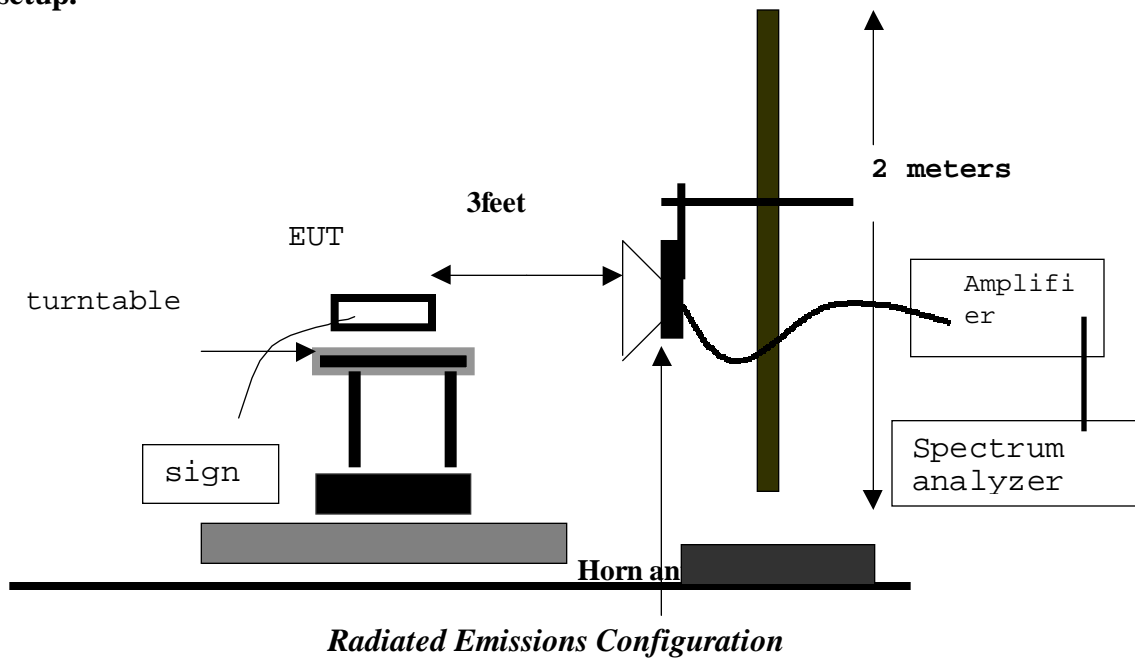
HP 8449 B Microwave pre-amplifier

EMCO 3115 Horn antenna, 1 - 18 GHz

QIM “The Workhorse” low loss cable, 9 ft (loss: 0.85 dB/ft@ 26 GHz)

ARA Horn antenna 18-26GHz

**Test setup:**



**Minimum Requirement:**

**Section 22.917(e):**

The magnitude of each spurious and harmonic emissions detected as being radiated from the EUT must be at a level no more than  $43 + 10 \log$  (mean output power, watts) dB below the mean power output (-13dBm).

Resultant radiated field at 3 meters from -13dBm source feeding isotropic antenna: 82 dBuV/m.

**Test procedure:**

**1m test**

EUT antenna output was terminated with a 50-ohm load. The EUT was placed on a outdoors-wooden table. The search antenna placed 1-3m from the EUT. With the transmitter operating at full power the turntable was slowly rotated to locate the direction of maximum emission. Once maximum direction is determined, the search antenna was raised and lowered in both vertical and horizontal polarization.

The EUT was removed from the turntable and replaced with a linearly polarized antenna (horn antenna) connected to a calibrated RF signal generator. The RF generator was set to a measured emission frequency and the search antenna was raised and lowered to produce a maximum receiver reading. The generator output was increased to match the radiated emission reading measured previously, and the result expressed in dB EIRP or ERP, correcting for substitution antenna gain at each frequency.

**Test Result:**

Measurements were performed at Compliance Certification Services in Morgan Hill, California. Please refer to spreadsheet below.

Compliance Certification Services

Foxcom Wireless  
 FCC ID: OJFLITENNA0LF0SP1

4/4/01  
 T. Cokenias

Frequency MHz	SA reading dBuV	Sig Gen dBm	CL dB	Gain dBi	Gain dBd	ERP dBm	Limit dBm	Margin dB	Comment
880									
1760H	41.7	-64	2.4	9	6.8	-59.6	-13	-46.6	
1760V	40.4	-67	2.4	9	6.8	-62.6	-13	-49.6	AMBIENT
2640H	48.3	-53	3	9	6.8	-49.2	-13	-36.2	AMBIENT
2640V	65.4	-41	3	9	6.8	-37.2	-13	-24.2	AMBIENT
3520H	43.8	-60	3.75	8	5.8	-57.95	-13	-44.95	
3520V	46.2	-54	3.75	8	5.8	-51.95	-13	-38.95	
4400H	39.4	-77	4.35	10.7	8.5	-72.85	-13	-59.85	
4400V	42.1	-67	4.35	10.7	8.5	-62.85	-13	-49.85	
5280H	31.5	-77	4.95	9.9	7.7	-74.25	-13	-61.25	
5280V	36.8	-67	4.95	9.9	7.7	-64.25	-13	-51.25	GEN
6160H	32.4	-77	5.4	10.6	8.4	-74	-13	-61	
6160V	30.6	-72	5.4	10.6	8.4	-69	-13	-56	
7040H	29.6	-77	5.7	10.9	8.7	-74	-13	-61	
7040V	26.5	-68	5.7	10.9	8.7	-65	-13	-52	
7920H	22	-77	6	11.2	9	-74	-13	-61	NF
7920V	21.3	-77	6	11.2	9	-74	-13	-61	NF
8800H	20.6	-77	6.3	11	8.8	-74.5	-13	-61.5	NF
8800V	20.7	-77	6.3	11	8.8	-74.5	-13	-61.5	NF

NF - Noise floor

GEN - radiated leakage from substitution generator (RF turned OFF)

**SECTION 2.1055: FREQUENCY STABILITY**

NOT APPLICABLE – EUT is an amplifier-type repeater. No RF oscillators, no frequency determining circuits in EUT.

**CHART OF PLOTS:**

AMPS INTERMODS, 2 Carriers ( <b>870 MHz &amp; 870.5 MHz</b> ) at the bottom of the band and 1 Carrier ( <b>893MHz</b> ) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, <b>Spans=30 MHz</b>	1
AMPS INTERMODS, 2 Carriers ( <b>870 MHz &amp; 870.5 MHz</b> ) at the bottom of the band and 1 Carrier ( <b>893MHz</b> ) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, <b>Spans=60 MHz</b>	2
AMPS INTERMODS, 2 Carriers ( <b>870 MHz &amp; 870.5 MHz</b> ) at the bottom of the band and 1 Carrier ( <b>893MHz</b> ) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, <b>Spans=30 MHz to 10 GHz</b>	3
AMPS INTERMODS, 1 Carrier ( <b>870 MHz</b> ) at the bottom and 2 Carriers ( <b>892.5 MHz &amp; 893 MHz</b> ) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, <b>Spans=30 MHz</b>	4
AMPS INTERMODS, 1 Carrier ( <b>870 MHz</b> ) at the bottom and 2 Carriers ( <b>892.5 MHz &amp; 893 MHz</b> ) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, <b>Spans=60 MHz</b>	5
AMPS INTERMODS, 1 Carrier ( <b>870 MHz</b> ) at the bottom and 2 Carriers ( <b>892.5 MHz &amp; 893 MHz</b> ) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, <b>Spans=30 MHz to 10 GHz</b>	6
AMPS OUTPUT	7
AMPS INPUT	8
CDMA INTERMODS, 2 Carriers ( <b>870 MHz &amp; 870.5 MHz</b> ) at the bottom of the band and 1 Carrier ( <b>893MHz</b> ) at the top. All the Carriers are with CDMA modulation, RBW=30 KHz, <b>Spans=30 MHz</b>	9
CDMA INTERMODS, 2 Carriers ( <b>870 MHz &amp; 870.5 MHz</b> ) at the bottom of the band and 1 Carrier ( <b>893MHz</b> ) at the top. All the Carriers are with CDMA modulation, RBW=30 KHz, <b>Spans=60 MHz</b>	10
CDMA INTERMODS, 2 Carriers ( <b>870 MHz &amp; 870.5 MHz</b> ) at the bottom of the band and 1 Carrier ( <b>893MHz</b> ) at the top. All the Carriers are with CDMA modulation, RBW=30 KHz, <b>Spans=30 MHz to 10 GHz</b>	11

CDMA INTERMODS, 1 Carrier ( <b>870 MHz</b> ) at the bottom and 2 Carriers ( <b>892.5 MHz &amp; 893 MHz</b> ) at the top. All the Carriers are with CDMA modulation, RBW=30 KHz, <b>Spans=30 MHz</b>	12
CDMA INTERMODS, 1 Carrier ( <b>870 MHz</b> ) at the bottom and 2 Carriers ( <b>892.5 MHz &amp; 893 MHz</b> ) at the top. All the Carriers are with CDMA modulation, RBW=30 KHz, <b>Spans=60 MHz</b>	13
CDMA INTERMODS, 1 Carrier ( <b>870 MHz</b> ) at the bottom and 2 Carriers ( <b>892.5 MHz &amp; 893 MHz</b> ) at the top. All the Carriers are with CDMA modulation, RBW=30 KHz, <b>Spans=30 MHz to 10 GHz</b>	14
CDMA OUTPUT	15
CDMA INPUT	16
TDMA INTERMODS, 2 Carriers ( <b>870 MHz &amp; 870.5 MHz</b> ) at the bottom of the band and 1 Carrier ( <b>893MHz</b> ) at the top. All the Carriers are with TDMA modulation, RBW=30 KHz, <b>Spans=30 MHz</b>	17
TDMA INTERMODS, 2 Carriers ( <b>870 MHz &amp; 870.5 MHz</b> ) at the bottom of the band and 1 Carrier ( <b>893MHz</b> ) at the top. All the Carriers are with TDMA modulation, RBW=30 KHz, <b>Spans=60 MHz</b>	18
TDMA INTERMODS, 2 Carriers ( <b>870 MHz &amp; 870.5 MHz</b> ) at the bottom of the band and 1 Carrier ( <b>893MHz</b> ) at the top. All the Carriers are with TDMA modulation, RBW=30 KHz, <b>Spans=30 MHz to 10 GHz</b>	19
TDMA INTERMODS, 1 Carrier ( <b>870 MHz</b> ) at the bottom and 2 Carriers ( <b>892.5 MHz &amp; 893 MHz</b> ) at the top. All the Carriers are with TDMA modulation, RBW=30 KHz, <b>Spans=30 MHz</b>	20
TDMA INTERMODS, 1 Carrier ( <b>870 MHz</b> ) at the bottom and 2 Carriers ( <b>892.5 MHz &amp; 893 MHz</b> ) at the top. All the Carriers are with TDMA modulation, RBW=30 KHz, <b>Spans=60 MHz</b>	21
TDMA INTERMODS, 1 Carrier ( <b>870 MHz</b> ) at the bottom and 2 Carriers ( <b>892.5 MHz &amp; 893 MHz</b> ) at the top. All the Carriers are with TDMA modulation, RBW=30 KHz, <b>Spans=30 MHz to 10 GHz</b>	22
TDMA OUTPUT	23
TDMA INPUT	24
LMR INTERMODS, 2 Carriers ( <b>852 MHz &amp; 852.5 MHz</b> ) at the bottom of the band and 1 Carrier ( <b>868MHz</b> ) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, <b>Spans=25 MHz</b>	25

LMR INTERMODS, 2 Carriers ( <b>852 MHz &amp; 852.5 MHz</b> ) at the bottom of the band and 1 Carrier ( <b>868MHz</b> ) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, <b>Spans=50 MHz</b>	26
LMR INTERMODS, 2 Carriers ( <b>852 MHz &amp; 852.5 MHz</b> ) at the bottom of the band and 1 Carrier ( <b>868MHz</b> ) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, <b>Spans=30 MHz to 10 GHz</b>	27
LMR INTERMODS, 1 Carrier ( <b>852 MHz</b> ) at the bottom and 2 Carriers ( <b>867.5 MHz &amp; 868 MHz</b> ) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, <b>Spans=25 MHz</b>	28
LMR INTERMODS, 1 Carrier ( <b>852 MHz</b> ) at the bottom and 2 Carriers ( <b>867.5 MHz &amp; 868 MHz</b> ) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, <b>Spans=50 MHz</b>	29
LMR INTERMODS, 1 Carrier ( <b>852 MHz</b> ) at the bottom and 2 Carriers ( <b>867.5 MHz &amp; 868 MHz</b> ) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, <b>Spans=30 MHz to 10 GHz</b>	30
LMR OUTPUT	31
LMR INPUT	32
iDEN INTERMODS, 2 Carriers ( <b>852 MHz &amp; 852.5 MHz</b> ) at the bottom of the band and 1 Carrier ( <b>868MHz</b> ) at the top. All the Carriers are with 16QAM modulation, RBW=30 KHz, <b>Spans=25 MHz</b>	33
iDEN INTERMODS, 2 Carriers ( <b>852 MHz &amp; 852.5 MHz</b> ) at the bottom of the band and 1 Carrier ( <b>868MHz</b> ) at the top. All the Carriers are with 16QAM modulation, RBW=30 KHz, <b>Spans=50 MHz</b>	34
iDEN INTERMODS, 2 Carriers ( <b>852 MHz &amp; 852.5 MHz</b> ) at the bottom of the band and 1 Carrier ( <b>868MHz</b> ) at the top. All the Carriers are with 16QAM modulation, RBW=30 KHz, <b>Spans=30 MHz to 10 GHz</b>	35
iDEN INTERMODS, 1 Carrier ( <b>852 MHz</b> ) at the bottom and 2 Carriers ( <b>867.5 MHz &amp; 868 MHz</b> ) at the top. All the Carriers are with 16QAM modulation, RBW=30 KHz, <b>Spans=25 MHz</b>	36
iDEN INTERMODS, 1 Carrier ( <b>852 MHz</b> ) at the bottom and 2 Carriers ( <b>867.5 MHz &amp; 868 MHz</b> ) at the top. All the Carriers are with 16QAM modulation, RBW=30 KHz, <b>Spans=50 MHz</b>	37
iDEN INTERMODS, 1 Carrier ( <b>852 MHz</b> ) at the bottom and 2 Carriers ( <b>867.5 MHz &amp; 868 MHz</b> ) at the top. All the Carriers are with 16QAM modulation, RBW=30 KHz, <b>Spans=30 MHz to 10 GHz</b>	38

iDEN OUTPUT	39
iDEN INPUT	40
SMR INTERMODS, 2 Carriers ( <b>936 MHz &amp; 936.5 MHz</b> ) at the bottom of the band and 1 Carrier ( <b>940MHz</b> ) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, <b>Spans=25 MHz</b>	41
SMR INTERMODS, 2 Carriers ( <b>936 MHz &amp; 936.5 MHz</b> ) at the bottom of the band and 1 Carrier ( <b>940MHz</b> ) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, <b>Spans=50 MHz</b>	42
SMR INTERMODS, 2 Carriers ( <b>936 MHz &amp; 936.5 MHz</b> ) at the bottom of the band and 1 Carrier ( <b>940MHz</b> ) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, <b>Spans=30 MHz to 10 GHz</b>	43
SMR INTERMODS, 1 Carrier ( <b>936MHz</b> ) at the bottom and 2 Carriers ( <b>939.5 MHz &amp; 940 MHz</b> ) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, <b>Spans=25 MHz</b>	44
SMR INTERMODS, 1 Carrier ( <b>936MHz</b> ) at the bottom and 2 Carriers ( <b>939.5 MHz &amp; 940 MHz</b> ) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, <b>Spans=50 MHz</b>	45
SMR INTERMODS, 1 Carrier ( <b>936MHz</b> ) at the bottom and 2 Carriers ( <b>939.5 MHz &amp; 940 MHz</b> ) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, <b>Spans=30 MHz to 10 GHz</b>	46
SMR OUTPUT	47
SMR INPUT	48
Paging INTERMODS, 2 Carriers ( <b>929 MHz &amp; 929.5 MHz</b> ) at the bottom of the band and 1 Carrier ( <b>940MHz</b> ) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, <b>Spans=20 MHz</b>	49
Paging INTERMODS, 2 Carriers ( <b>929 MHz &amp; 929.5 MHz</b> ) at the bottom of the band and 1 Carrier ( <b>940MHz</b> ) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, <b>Spans=40 MHz</b>	50
Paging INTERMODS, 2 Carriers ( <b>929 MHz &amp; 929.5 MHz</b> ) at the bottom of the band and 1 Carrier ( <b>940MHz</b> ) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, <b>Spans=30 MHz to 10 GHz</b>	51
Paging INTERMODS, 1 Carrier ( <b>929 MHz</b> ) at the bottom and 2 Carriers ( <b>939.5 MHz &amp; 940 MHz</b> ) at the top. All the Carriers are with FM modulation,	52



DIV=12.5KHz, INT=1KHz, RBW=30 KHz, Spans=20 MHz	
Paging INTERMODS, 1 Carrier (929 MHz) at the bottom and 2 Carriers (939.5 MHz & 940 MHz) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, Spans=40 MHz	53
Paging INTERMODS, 1 Carrier (929 MHz) at the bottom and 2 Carriers (939.5 MHz & 940 MHz) at the top. All the Carriers are with FM modulation, DIV=12.5KHz, INT=1KHz, RBW=30 KHz, Spans=30 MHz to 10 GHz	54
Paging OUTPUT	55
Paging INPUT	56