

# **APPLICATION SUBMITTAL**

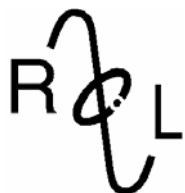
**FOR  
FCC GRANT OF CERTIFICATION  
Per CFR47 Part 87**

**FOR  
MODEL: 1119A  
960.0-1215.0 MHz  
DISTANCE MEASURING EQUIPMENT  
FCC ID: JPADMEH2**

**FOR  
Selex Sistemi Integrati Inc.**

**11300 West 89th Street  
Overland Park, KS 66214**

**Test Report Number 060821**



*Rogers Labs, Inc.*

4405 West 259<sup>th</sup> Terrace  
Louisburg, KS 66053  
Phone / Fax (913) 837-3214

## TEST REPORT

For

## APPLICATION of CERTIFICATION

For

### SELEX SISTEMI INTEGRATI INC.

11300 West 89th Street  
OVERLAND PARK, KS 66214  
Phone: (913) 495-2667

Kurt Rieke  
Product Manager

DISTANCE MEASURING EQUIPMENT

Model: 1119A

Frequency Range: 960.0-1215.0 MHz

FCC ID: JPADMEH2

Test Date: August 21, 2006

Certifying Engineer: *Scot D Rogers*

Scot D. Rogers  
ROGERS LABS, INC.  
4405 West 259th Terrace  
Louisburg, KS 66053  
Phone: (913) 837-3214  
FAX: (913) 837-3214

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ROGERS LABS, INC.  
4405 West 259<sup>th</sup> Terrace  
Louisburg, KS 66053  
Phone/Fax: (913) 837-3214

Selex Sistemi Integrati Inc.  
MODEL: 1119A  
Test #: 060821  
Test to: FCC Parts 2, 15 and 87

SN: E200  
FCC ID#: JPADMEH2

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Selex 1119A DME Test Report 9/29/2006

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## FORWARD

In accordance with the Federal Communications Commission (FCC) Code of Federal Regulations (CFR), dated October 1, 2005, Part 2 Subpart J, Paragraphs 2.907, 2.911, 2.913, 2.915, 2.925, 2.926, 2.1031 through 2.1057, and Part 87, Subchapter D, Paragraphs 87.131 through 87.147, and applicable paragraphs of Part 15, the following information is submitted.

## List of Test Equipment

A Hewlett Packard 8591EM and or 8562A Spectrum Analyzer was used as the measuring device for the emissions testing. The analyzer settings used are described in the following table. Refer to the Appendix for a complete list of Test Equipment.

HP 8591EM SPECTRUM ANALYZER SETTINGS		
CONDUCTED EMISSIONS:		
RBW	AVG. BW	DETECTOR FUNCTION
9 kHz	30 kHz	Peak/Quasi Peak
RADIATED EMISSIONS (30 - 1000 MHz)		
RBW	AVG. BW	DETECTOR FUNCTION
120 kHz	300 kHz	Peak/Quasi Peak
HP 8562A SPECTRUM ANALYZER SETTINGS		
RADIATED EMISSIONS (1 - 40 GHz)		
RBW	AVG. BW	DETECTOR FUNCTION
1 MHz	1 MHz	Peak/Average
ANTENNA CONDUCTED EMISSIONS		
RBW	AVG. BW	DETECTOR FUNCTION
300 Hz -120 kHz	100 kHz	Peak

**2.1033(c) Application for Certification**

- (1) Manufacturer: SELEX SISTEMI INTEGRATI INC.  
11300 West 89th Street  
OVERLAND PARK, KS 66214
- (2) Identification: FCC I.D.: JPADMEH2
- (3) Instruction Book: Refer to exhibit for Draft Instruction Manual.
- (4) Emission Type: Emissions designator 560kP0N. Double-sideband amplitude modulated single channel, data transmission.
- (5) Frequency Range: 960.0-1215.0 MHz
- (6) Operating Power Level: 1000-Watts peak power.
- (7) Maximum P<sub>o</sub>: 1000 Watts delivered from the EUT. Maximum power output varies as approved by Federal Aviation Administration.
- (8) Power into final amplifying circuitry: Final driver and amplifier 48 volts @ 3.1 amps (2% duty cycle, average), 148.8 watts.
- (9) Tune Up Procedure for Output Power: Refer to Exhibit for Transmitter Alignment Procedure.
- (10) Circuit Diagrams; description of circuits, frequency stability, spurious suppression, and power and modulation limiting:  
Refer to Exhibit for Circuit Diagrams.  
Refer to Exhibit for Theory of Operation.
- (11) Photograph or drawing of the Identification Plate:  
Refer to Exhibit for Photograph or Drawing.
- (12) Drawings of Construction and Layout: Refer to Exhibit for Drawings/pictures of Components Layout and Chassis Drawings.
- (13) Detail Description of Digital Modulation: Not applicable.

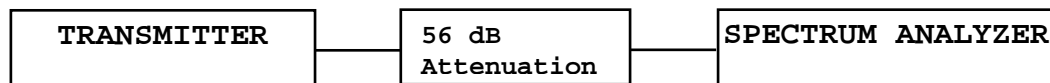
## 2.1046 RF Power Output

### Measurements Required

Measurements shall be made to establish the radio frequency power delivered by the transmitter into the standard output termination. The power output shall be monitored and recorded and no adjustment shall be made to the transmitter after the test has begun, except as noted below:

If the power output is adjustable, measurements shall be made for the highest and lowest power levels.

### Test Arrangement



The radio frequency power output was measured at the antenna terminal by placing of 56 dB attenuation in the antenna line and observing the emission with the spectrum analyzer. The spectrum analyzer had an impedance of  $50\Omega$  to match the impedance of the standard antenna. A HP 8562A Spectrum Analyzer was used to measure the radio frequency power at the antenna port. The data was taken in dBm and converted to watts as shown in the following Table. Refer to Figure 1 showing the maximum output power of the transmitter. Data was taken per Paragraph 47 CFR, 2.1046(a) and applicable paragraphs of Part 87.

$P_{dBm}$  = power in dB above 1 milliwatt.

Milliwatts =  $10^{(P_{dBm}/10)}$

Watts = (Milliwatts)(0.001)(W/mW)

milliwatts =  $10^{(59.9/10)}$

= 977,237.2 mW

= 978 Watts

## Results

FREQUENCY MHz	P <sub>dBm</sub> (Peak)	P <sub>mw</sub> (Peak)	P <sub>w</sub> (Peak)
962.0	59.9	977,237	978
1087.0	60.0	1,000,000	1000
1213.0	59.7	933,254	933

DME High Power Amplifier Efficiency							
Frequency	1024 MHz	Cable losses approximately equal to 0.70 dB at 1024MHz from output of HPA to the top of the cabinet. Measurement taken directly from the output of the HPA.					
Peak Power Out	1000 Watts						
PRF	Measured Voltage (DC)	Measured Current (Amps)	Power In (Watts)	Measured Pulse Width (uS)	Duty Cycle (%)	Average Peak Power Out (Watts)	Efficiency
700	48.6	0.60	29.2	3.42	0.5%	4.8	16.4%
1000	48.5	0.80	38.8	3.41	0.7%	6.8	17.6%
1500	48.4	1.10	53.2	3.46	1.0%	10.4	19.5%
2000	48.4	1.40	67.8	3.45	1.4%	13.8	20.4%
2500	48.3	1.74	84.0	3.42	1.7%	17.1	20.3%
3000	48.2	2.10	101.2	3.44	2.1%	20.6	20.4%
3500	48.1	2.40	115.4	3.45	2.4%	24.2	20.9%
4000	48.0	2.80	134.4	3.45	2.8%	27.6	20.5%
4500	47.9	3.10	148.5	3.45	3.1%	31.1	20.9%

The specifications of Paragraph 47 CFR 2.1046(a) and applicable Parts of 2 and 87 are met. There are no deviations to the specifications.

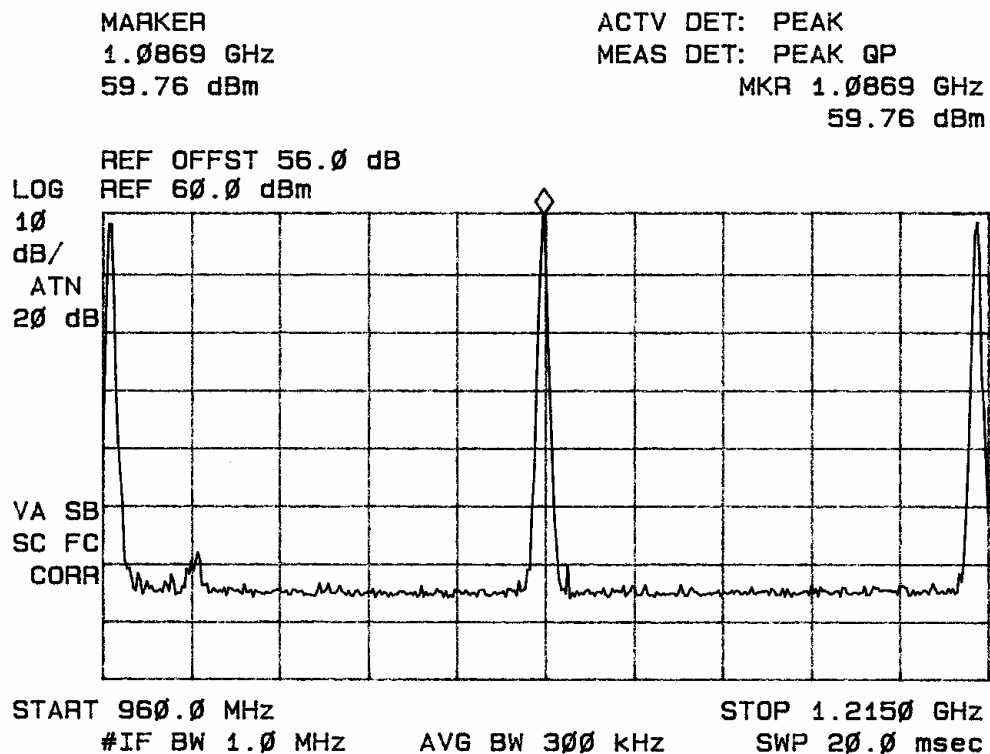


Figure one Maximum Power Output

## 2.1047 Modulation Characteristics

### Measurements Required

A curve or equivalent data, which shows that the equipment will meet the modulation requirements of the rules, under which the equipment is to be licensed, shall be submitted.

### Results

The Federal Aviation Administration, with specifications for pulse width characteristics, rise and fall times, and durations governs the Distance Measuring Equipment modulation. The equipment meets the requirements of the FAA as demonstrated. Therefore, no modulation characteristics were measured. The specifications of 2.987 and applicable paragraphs of Part 87 are met. There are no deviations to the specifications.



## 2.1049 Occupied Bandwidth

### Measurements Required

The occupied bandwidth, that is the frequency bandwidth such that below its lower and above its upper frequency limits, the mean powers radiated are equal to 0.5 percent of the total mean power radiated by a given emission.

### Test Arrangement



### Results

Frequency (MHz)	Occupied bandwidth(kHz)
1087.0	560.0

A spectrum analyzer was used to observe the radio frequency spectrum with the transmitter operating in a normal mode. The power ratio in dB representing 99.5% of the total mean power was recorded from the spectrum analyzer. Refer to figure 2 showing a plot of the occupied bandwidth of the 99.5% power.

The requirements of 47 CFR 2.1049(c)(1) and applicable paragraphs of Part 87 are met. There are no deviations to the specifications.

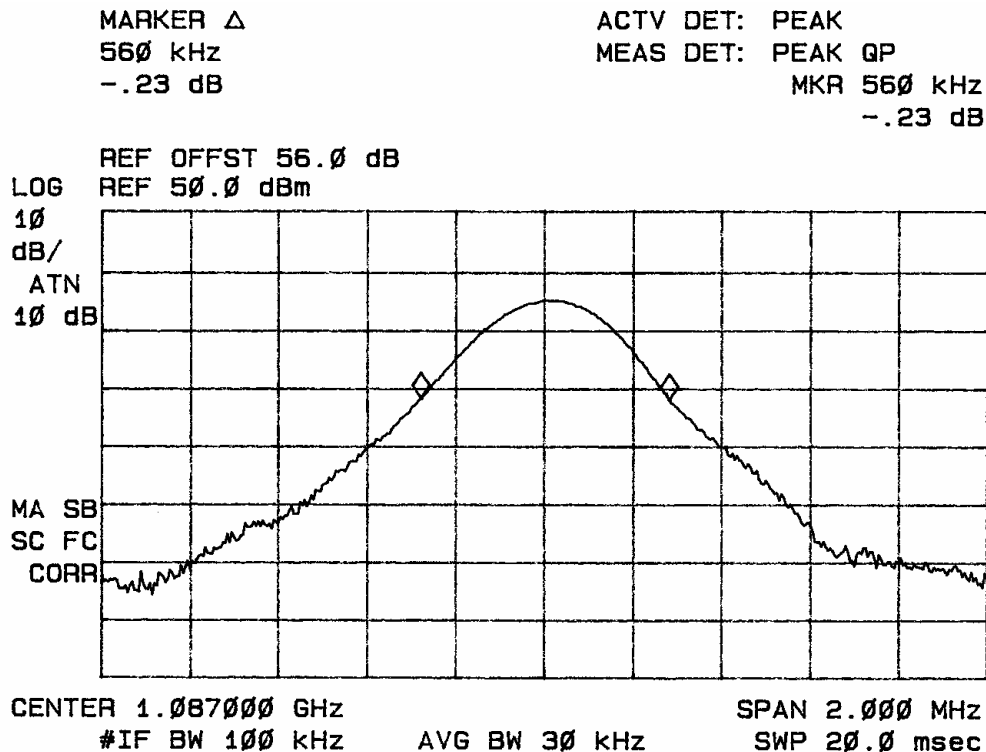


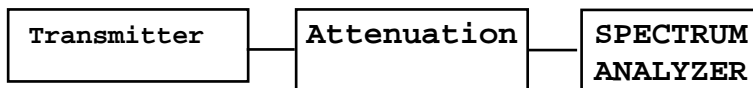
Figure two Occupied Band Width

## 2.1051 Spurious Emissions at Antenna Terminals

### Measurements Required

The radio frequency voltage or power generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna.

### Test Arrangement



The radio frequency output was coupled to a HP 8562A Spectrum Analyzer. The spectrum analyzer was used to observe the radio frequency spectrum with the transmitter modulated per section 2.1049 and operated in a normal mode.

The frequency spectrum from 30 MHz to 10,000 MHz was observed and plots produced of the frequency spectrum. Refer to figures 3 through 6 represents data for the spurious emissions of the 1119A. Figures 4 through 6 were taken using a notch filter to attenuate the fundamental frequency. Data was taken per 47 CFR 2.1051, 2.1057, and applicable paragraphs of Part 87.

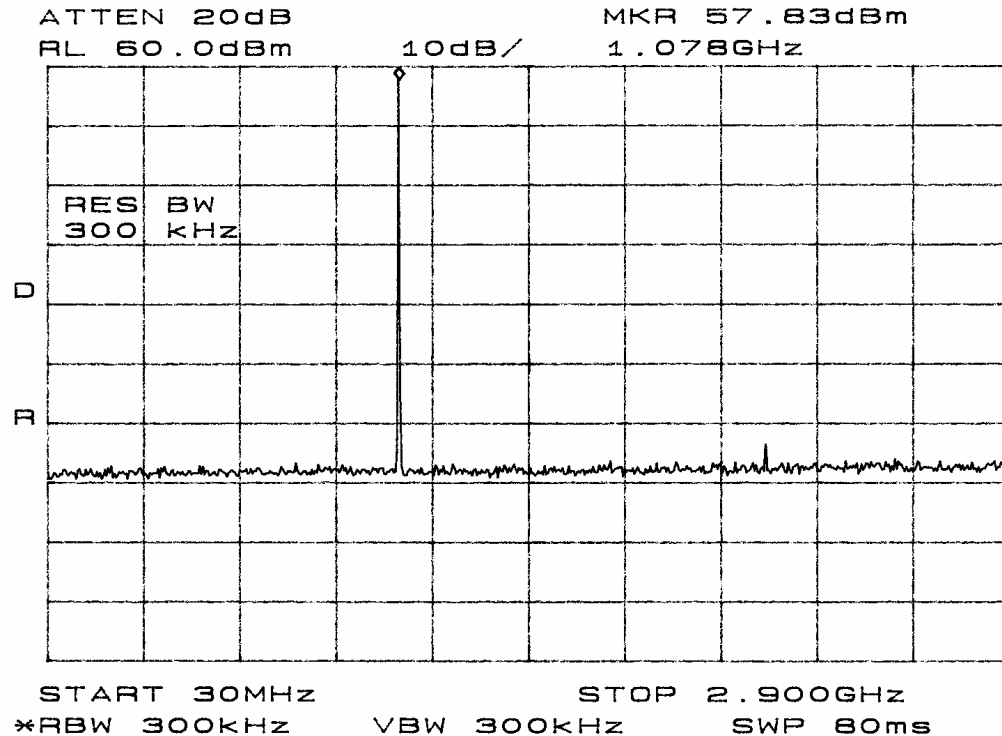


Figure three Spurious Emissions at Antenna Terminal.

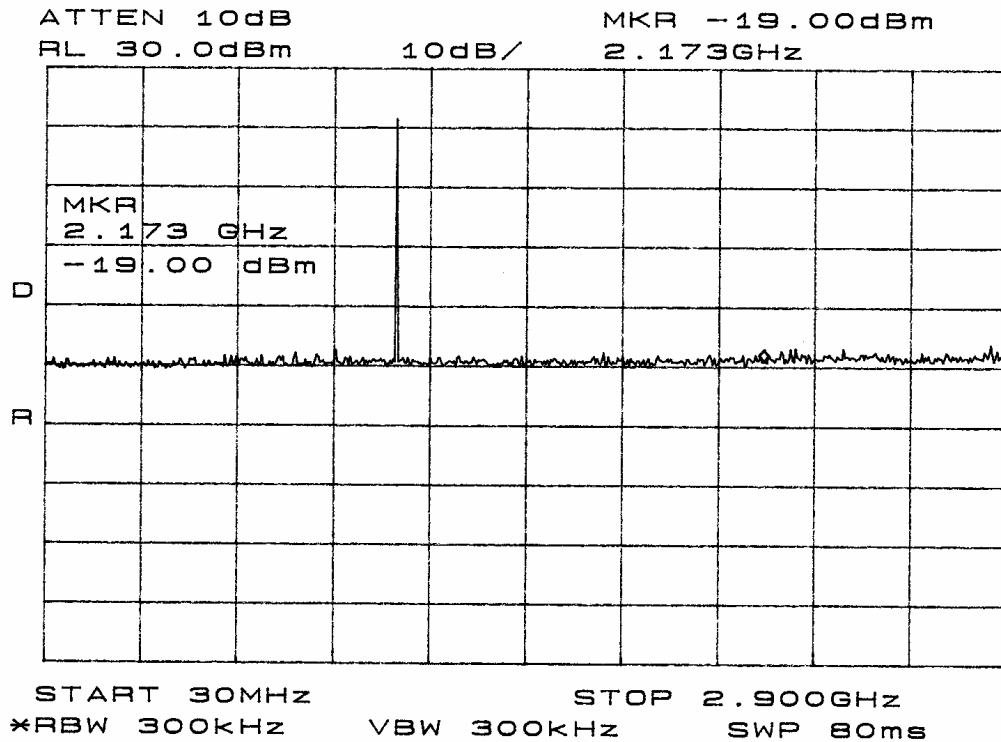


Figure four Spurious Emissions at Antenna Terminal.

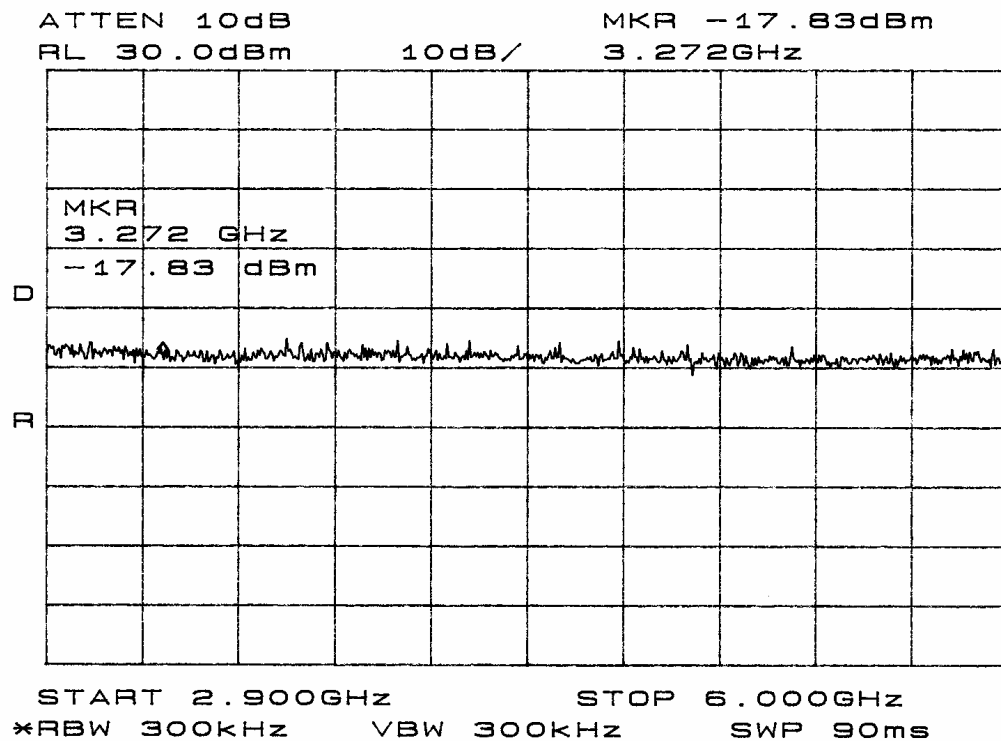


Figure five Spurious Emissions at Antenna Terminal.

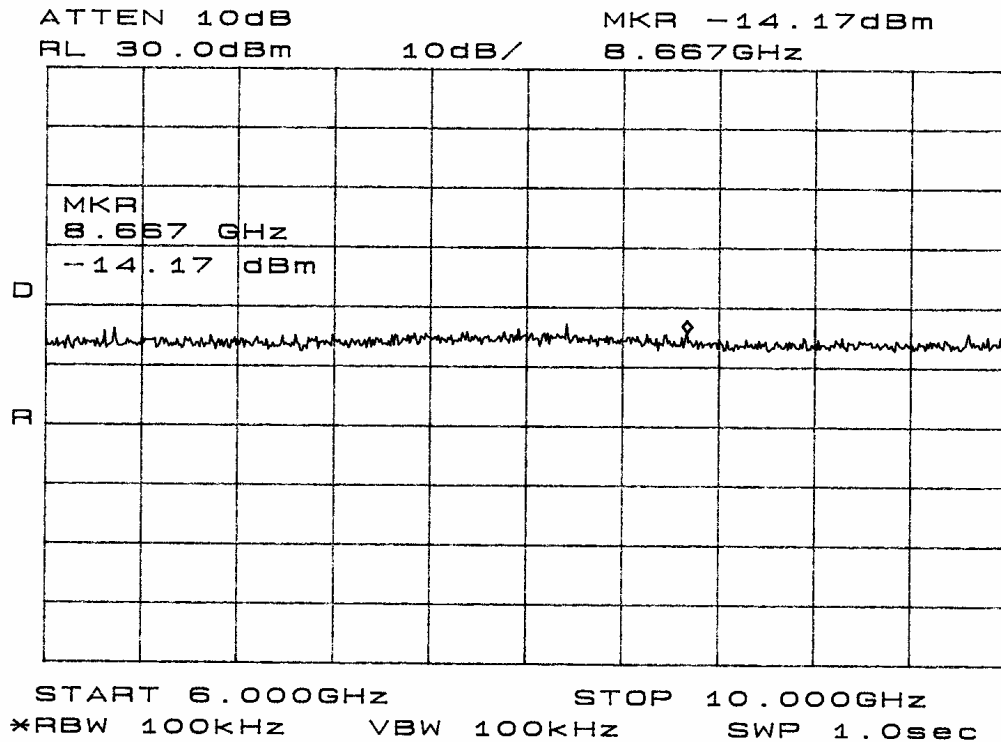


Figure six Spurious Emissions at Antenna Terminal.

## Results

The output of the unit was coupled to a HP Spectrum Analyzer and the frequency emissions were measured. Data was taken as per 47 CFR 2.1051 and applicable paragraphs of Part 87. Specifications of Paragraphs 47 CFR 2.1051, 2.1057 and applicable paragraphs of part 87 are met. There are no deviations to the specifications.

FCC Limit: The spurious emissions must be reduced in power by at least  $43 + 10 \text{ LOG}(P_o)$  below the carrier output power.

$$\begin{aligned}
 1000 \text{ Watt} &= 43 + 10 \text{ LOG}(P_o) \\
 &= 43 + 10 \text{ LOG}(1000) \\
 \text{Limit} &= 73.00 \text{ dB below carrier} \\
 \text{Limit} &= 60.00 - 73.00 \text{ dBm (calculated absolute limit -13dBm)}
 \end{aligned}$$

CHANNEL MHz	SPURIOUS FREQ. (MHz)	MEASURED LEVEL (dBm)	LEVEL BELOW CARRIER (dB)
962.0	1924.0	-26.7	86.6
	2886.0	-24.3	84.2
	3848.0	-23.1	83.0
	4810.0	-24.1	84.0
	5772.0	-24.8	84.7
	6734.0	-23.1	83.0
	7696.0	-24.5	84.4
	8658.0	-25.1	85.0
	9620.0	-22.1	82.0
1087.0	2174.0	-22.1	82.1
	3261.0	-24.6	84.6
	4348.0	-23.7	83.7
	5435.0	-22.8	82.8
	6522.0	-23.5	83.5
	7609.0	-22.2	82.2
	8696.0	-23.7	83.7
	9783.0	-24.5	84.5
	10870.0	-21.5	81.5
1215.0	2430.0	-26.0	85.7
	3645.0	-24.3	84.0
	4860.0	-23.5	83.2
	6075.0	-23.8	83.5
	7290.0	-25.0	84.7
	8505.0	-24.5	84.2
	9720.0	-23.3	83.0
	10935.0	-25.6	85.3
	12150.0	-24.6	84.3

## 2.1053 Field Strength of Spurious Radiation

### Measurements Required

Measurements shall be made to detect spurious emissions that may be radiated directly from the cabinet, control circuits, power leads, or intermediate circuit elements under normal conditions of installation and operation.

## Test Arrangement



The transmitter was placed on a wooden turntable 0.8 meters above the ground plane and at a distance of 3 meters from the Field Strength Measuring (FSM) antenna. With the EUT modulated and radiating into a  $50\Omega$  load. The receiving antenna was raised and lowered from 1m to 4m to obtain the maximum reading of spurious radiation from the EUT on the spectrum analyzer. The turntable was rotated through 360 degrees to locate the position registering the highest amplitude of emission. The frequency spectrum was then searched for spurious emissions generated from the transmitter. The amplitude of each spurious emission was maximized by raising and lowering the FSM antenna, and rotating the turntable before final data was recorded. A biconilog antenna was used for frequency measurements of 30 to 1000 MHz. A log periodic antenna was used for frequencies of 1000 MHz to 5000 MHz, and/or a double-ridge horn for frequencies of 1 GHz to 18 GHz. Emission levels were measured and recorded from the spectrum analyzer in dB $\mu$ V. The transmitter was then removed and replaced with a substitution antenna powered from a signal generator. The output power from the generator was then adjusted such that the amplitude received was the same as that previously recorded for each frequency. This step was repeated for both horizontal and vertical polarizations. The power in dBm required to produce the desired signal level was then recorded from the signal generator. The power in dBm was then calculated by reducing the previous readings by the gain in the substitution antenna. Data was taken at the ROGERS LABS, INC. 3 meters open area test site (OATS). A

description of the test facility is on file with the FCC, Reference 90910. The testing procedures used conform to the procedures stated in the TIA/EIA-603 document.

The limits for the spurious radiated emissions are defined by the following equation.

Limit = Amplitude of the spurious emission must be attenuated by this amount below the level of the fundamental. On any frequency removed from the assigned frequency by more than 250% of the authorized bandwidth: at least  $43 + 10 \log(P_o)$  dB.

$$\begin{aligned}\text{Spurious limit} &= 43 + 10 \log_{10}(P_w) \\ &= 43 + 10 \log_{10}(1000) \\ &= 73.0 \text{ dB below the carrier frequency amplitude}\end{aligned}$$

### Results

The EUT was connected to a dummy load and set to transmit at the desired frequency. The amplitude of each spurious emission was then maximized and recorded. The transmitter produces 1000 watts of peak output power (60.0 dBm). Then the radiated spurious emission in dB is calculated from the following equation:

$$\begin{aligned}\text{Radiated spurious emission (dB)} &= \text{RSE} \\ \text{Radiated spurious emission (dB)} &= \\ &10 \log_{10}[\text{Tx power(W)}/0.001] - \text{signal level required to reproduce} \\ &\text{example:} \\ \text{RSE} &= 10 \log_{10}[1000/0.001] - (-64.53) = 124.5 \text{ dBc}\end{aligned}$$

Channel frequency 962.000 MHz

Frequency of Emission	Amplitude of Spurious emission		Signal level to dipole required to reproduce		Emission level below carrier		Limit
	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	
(MHz)	dBμV/m	dBμV/m	dBm	dBm	dBc	dBc	dBc
1924.0	31.5	32.8	-64.53	-63.23	120.0	120.0	73.0
2886.0	30.6	34.5	-59.53	-55.63	115.0	112.4	73.0
3848.0	32.6	32.5	-61.23	-61.33	116.7	118.1	73.0
4810.0	31.8	32.5	-60.53	-59.83	116.0	116.6	73.0
5772.0	31.8	33.5	-59.73	-58.03	115.2	114.8	73.0



Specifications of 47 CFR Paragraph 2.1053, 2.1057, applicable paragraphs of part 87 are met. There are no deviations or exceptions to the specifications.

## 2.1055 Frequency Stability

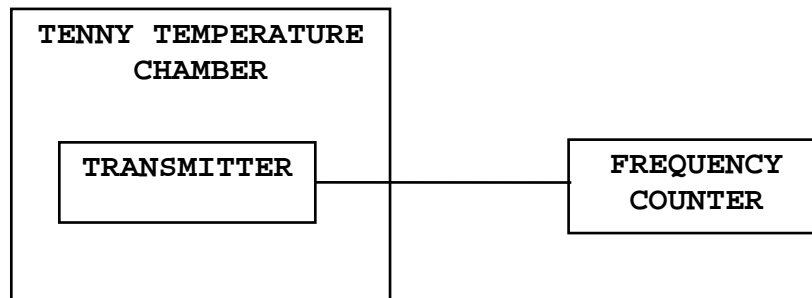
### Measurements Required

The frequency stability shall be measured with variations of ambient temperature from -30° to +50° centigrade.

Measurements shall be made at the extremes of the temperature range and at intervals of not more than 10° centigrade through the range. A period sufficient to stabilize all of the components of the oscillator circuit at each temperature level shall be allowed prior to frequency measurement. In addition to temperature stability, the frequency stability shall be measured with variation of primary supply voltage as follows:

- (1) Vary primary supply voltage from 85 to 115 percent of the nominal.
- (2) For hand carried, batteries powered equipment, reduce primary supply voltage to the battery-operating end point, which shall be specified by the manufacturer.
- (3) The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

### Test Arrangement



The measurement procedure outlined below shall be followed.

Step 1: The transmitter shall be installed in an environmental test chamber whose temperature is controllable. Provision shall be made to measure the frequency of the transmitter.

Step 2: With the transmitter inoperative (power switched "OFF"), the temperature of the test chamber shall be adjusted to +25°C. After a temperature stabilization period of one hour at +25°C, the transmitter shall be switched "ON" with standard test voltage applied.

Step 3: The carrier shall be keyed "ON", and the transmitter shall be operated unmodulated at full radio frequency power output at the duty cycle, for which it is rated, for duration of at least 5 minutes. The radio frequency carrier frequency shall be monitored and measurements shall be recorded.

Step 4: The test procedures outlined in Steps 2 and 3, shall be repeated after stabilizing the transmitter at the environmental temperatures specified, -30°C to +50°C in 10-degree increments.

The frequency stability was measured with variations in the power supply voltage from 85 to 115 percent of the nominal value. A Sorensen DC Power Supply was used to vary the dc voltage for the power input from 23.37 Vdc to 31.65 Vdc.

The frequency was measured and the variation in parts per million was calculated. Data was taken per 47 CFR Paragraphs 2.1055 and applicable paragraphs of part 87.

## Results

Frequency  1215.0000 (MHz)	FREQUENCY STABILITY VS TEMPERATURE IN PARTS PER MILLION (PPM)								
	Temperature in °C								
	-30	-20	-10	0	+10	+20	+30	+40	+50
Change (Hz)	-960.0	-1150.0	670.0	290.0	320.0	620.0	1090.0	1150.0	370.0
PPM	-0.79	-0.95	0.55	0.24	0.26	0.51	0.90	0.95	0.30
%	-0.0001	-0.0001	0.0001	0.0000	0.0000	0.0001	0.0001	0.0001	0.0000
Limit (PPM)	50	50	50	50	50	50	50	50	50

FREQUENCY 1215.00000 MHz	FREQUENCY STABILITY VS VOLTAGE VARIATION		
	120 volts nominal; RESULTS IN PPM		
	INPUT VOLTAGE		
	102 V <sub>ac</sub>	120 V <sub>ac</sub>	138 V <sub>ac</sub>
Change (HZ)	0.0	0.0	0.0

Specifications of 47 CFR Paragraphs 2.1055 and applicable paragraphs of part 87 are met. There are no deviations or exceptions to the specifications.

## APPENDIX

Model: 1119A

1. Test Equipment List
2. Rogers Qualifications
3. FCC Site Approval Letter

**TEST EQUIPMENT LIST FOR ROGERS LABS, INC.**

The test equipment used is maintained in calibration and good operating condition. Use of this calibrated equipment ensures measurements are traceable to national standards.

<u>List of Test Equipment:</u>	<u>Calibration Date:</u>
Scope: Tektronix 2230	2/06
Wattmeter: Bird 43 with Load Bird 8085	2/06
Power Supplies: Sorensen SRL 20-25, SRL 40-25, DCR 150, DCR 140	2/06
H/V Power Supply: Fluke Model: 408B (SN: 573)	2/06
R.F. Generator: HP 606A	2/06
R.F. Generator: HP 8614A	2/06
R.F. Generator: HP 8640B	2/06
Spectrum Analyzer: HP 8562A,	2/06
Mixers: 11517A, 11970A, 11970K, 11970U, 11970V, 11970W	
HP Adapters: 11518, 11519, 11520	
Spectrum Analyzer: HP 8591 EM	5/06
Frequency Counter: Leader LDC 825	2/06
Antenna: EMCO Biconilog Model: 3143	5/06
Antenna: EMCO Log Periodic Model: 3147	10/05
Antenna: Antenna Research Biconical Model: BCD 235	10/05
Antenna: EMCO Dipole Set 3121C	2/06
Antenna: C.D. B-101	2/06
Antenna: Solar 9229-1 & 9230-1	2/06
Antenna: EMCO 6509	2/06
Audio Oscillator: H.P. 201CD	2/06
R.F. Power Amp 65W Model: 470-A-1010	2/06
R.F. Power Amp 50W M185- 10-501	2/06
R.F. PreAmp CPPA-102	2/06
LISN 50 $\mu$ Hy/50 ohm/0.1 $\mu$ f	10/05
LISN Compliance Eng. 240/20	2/06
LISN Fischer Custom Communications FCC-LISN-50-16-2-08	6/05
Peavey Power Amp Model: IPS 801	2/06
Power Amp A.R. Model: 10W 1010M7	2/06
Power Amp EIN Model: A301	2/06
ELGAR Model: 1751	2/06
ELGAR Model: TG 704A-3D	2/06
ESD Test Set 2010i	2/06
Fast Transient Burst Generator Model: EFT/B-101	2/06
Current Probe: Singer CP-105	2/06
Current Probe: Solar 9108-1N	2/06
Field Intensity Meter: EFM-018	2/06
KEYTEK Ecat Surge Generator	2/06
Shielded Room 5 M x 3 M x 3.0 M (101 dB Integrity)	

5/2/2006

**QUALIFICATIONS**  
Of  
**SCOT D. ROGERS, ENGINEER**  
**ROGERS LABS, INC.**

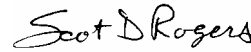
Mr. Rogers has approximately 17 years experience in the field of electronics. Mr. Rogers has worked for six years in the automated controls industry and the remaining years working with the design, development and testing of radio communications and electronic equipment.

**POSITIONS HELD:**

Systems Engineer:	A/C Controls Mfg. Co., Inc. 6 Years
Electrical Engineer:	Rogers Consulting Labs, Inc. 5 Years
Electrical Engineer:	Rogers Labs, Inc. Current

**EDUCATIONAL BACKGROUND:**

- 1) Bachelor of Science Degree in Electrical Engineering from Kansas State University.
- 2) Bachelor of Science Degree in Business Administration Kansas State University.
- 3) Several Specialized Training courses and seminars pertaining to Microprocessors and Software programming.

  
Scot D. Rogers

August 21, 2006  
Date

**FEDERAL COMMUNICATIONS COMMISSION**

**Laboratory Division  
7435 Oakland Mills Road  
Columbia, MD 21046**

May 16, 2006

Registration Number: 90910

Rogers Labs, Inc.  
4405 West 259th Terrace  
Louisburg, KS 66053

Attention: Scot Rogers

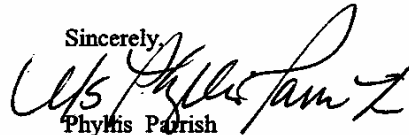
Re: Measurement facility located at Louisburg  
3 & 10 meter site  
Date of Renewal: May 16, 2006

Dear Sir or Madam:

Your request for renewal of the registration of the subject measurement facility has been received. The information submitted has been placed in your file and the registration has been renewed. The name of your organization will remain on the list of facilities whose measurement data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Please note that the file must be updated for any changes made to the facility and the registration must be renewed at least every three years.

Measurement facilities that have indicated that they are available to the public to perform measurement services on a fee basis may be found on the FCC website [www.fcc.gov](http://www.fcc.gov) under E-Filing, OET Equipment Authorization Electronic Filing, Test Firms.

Sincerely,



Phyllis Parrish  
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