

**FCC PART 95**  
**EMI MEASUREMENT AND TEST REPORT**

For

**Columbia Telecommunications Group Inc.**

174 Milbar Blvd., Farmingdale,  
New York, 11375 USA

**FCC ID: GAFGM18**

2003-04-11

<b>This Report Concerns:</b> <input checked="" type="checkbox"/> Original Report	<b>Equipment Type:</b> FRS & GMRS
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<b>Report Number:</b> R0303212	
<b>Test Date:</b> 2003-04-03	
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**Note:** This test report is specially limited to the above client company and product model. It may not be duplicated without prior written consent of Bay Area Compliance Laboratory Corporation. This report **must not** be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

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## 1 - GENERAL INFORMATION

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### 1.1 Product Description for Equipment Under Test (EUT)

The *Columbia Telecommunications Group Inc.*'s Model: *GM18* or the "EUT" as referred to in this report is a personal two-way communication device that transmits in FRS and GMRS. The EUT has 22-channels. The EUT measures approximately 2.6'Lx1.5"Wx5.55"H.

*\* The test data was only good for test sample. There may have deviation for other product samples.*

### 1.2 Objective

This report is prepared on behalf of *Columbia Telecommunications Group Inc.* in accordance with Part 95 Subpart A, Subpart B and Subpart E of the Federal Communication Commissions rules.

The objective of the manufacturer is to demonstrate compliance with FCC rules for effective radiated power, modulation characteristics, occupied bandwidth, radiated spurious emissions and frequency stability.

### 1.3 Related Grant/Submission

No Related Submittals.

### 1.4 Test Methodology

Measurements contained in this report were also conducted with TIA/EIA Standard 603, Telecommunications Industry Association Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratory, Corp. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

### 1.5 Test Facility

The Open Area Test site used by Bay Area Compliance Laboratory Corporation to collect radiated and conducted emission measurement data is located in the back parking lot of the building at 230 Commercial Street, Sunnyvale, California, USA.

Test site at Bay Area Compliance Laboratory Corporation has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports has been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997 and Article 8 of the VCCI regulations on December 25, 1997. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-1992.

The Federal Communications Commission and Voluntary Control Council for Interference has the reports on file and is listed under FCC file 31040/SIT 1300F2 and VCCI Registration No.: C-1298 and R-1234. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratory Corporation is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (NVLAP). The scope of the accreditation covers the FCC Method - 47 CFR Part 15 - Digital Devices, CISPR 22: 1997, and AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment test methods under NVLAP Lab Code 200167-0.

## 1.6 Test Equipment List

Manufacturer	Description	Model	Serial Number	Cal. Due Date
HP	Spectrum Analyzer	8568B	Panel 2408A00105 Display 2403A06544	2003-05-01
HP	Spectrum Analyzer	8593A	29190A00242	2003-05-01
HP	Amplifier	8447E	1937A01054	2003-05-01
HP	Quasi-Peak Adapter	85650A	2521A00718	2003-05-01
Com-Power	Biconical Antenna	AB-100	14012	2003-05-01
Com-Power	LISN	LI-200	12005	2004-03-28
Com-Power	LISN	LI-200	12008	2004-03-28
Com-Power	Log Periodic Antenna	AL-100	16091	2003-05-01
Com-Power	Log Periodic Antenna	AB-900	15049	2003-05-01
Rohde & Schwarz	EMI Test Receiver	ESPI	1147 8007 07	2003-12-03
Agilent	Spectrum Analyzer (9KHz – 40GHz)	8564E	08303	2003-08-01
Agilent	Spectrum Analyzer (9KHz – 50GHz)	8565EC	06042	2003-05-03
HP	Amplifier (1-26.5GHz)	8449B	3147A00400	2004-03-14
A.H.System	Horn Antenna (700MHz-18GHz)	SAS-200/571	261	2003-05-31

\* **Statement of Traceability:** Bay Area Compliance Laboratory Corp. certifies that all calibration has been performed using suitable standards traceable to NATIONAL INSTITUTE of STANDARDS and TECHNOLOGY. (NIST)

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## **2 - SYSTEM TEST CONFIGURATION**

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### **2.1 Justification**

The EUT was tested under typical operating modes to represent the worst-case results during the final qualification test.

### **2.2 EUT Test Configuration**

The EUT was powered and fully operated by pushing PTT (Push To Talk) button and then change the channel to Low and High by using up and down buttons.

### **2.3 Special Accessories**

As shown in section 2.7, interface cable used for compliance testing is shielded as normally supplied by customer and its respective support equipment manufacturers.

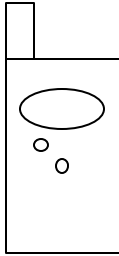
### **2.4 Schematics / Block Diagram**

Please refer to Appendix D.

### **2.5 Equipment Modifications**

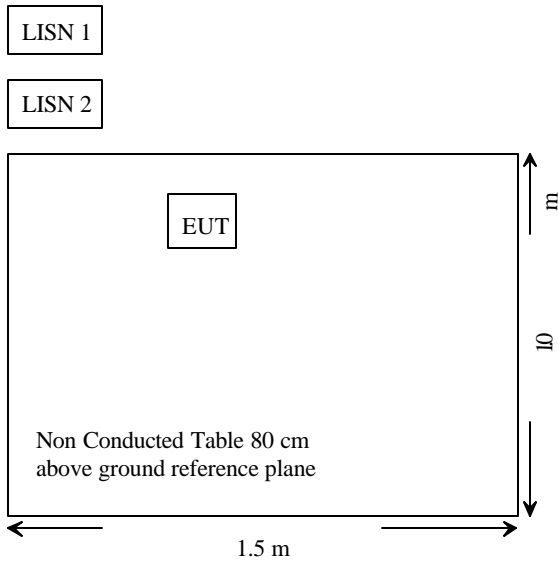
No modification was made by BAACL Corp. to make sure the EUT to comply with the applicable limits.

## 2.6 Configuration of Test System



## 2.7 Test Setup Block Diagram

For tabletop systems, the EUT shall be centered laterally on the tabletop and its rear shall be flushed with the rear of the table. If the EUT is a stand-alone unit, it shall be placed in the center of the tabletop.



### 3 - REQUIREMENTS OF PROVISIONS

#### 3.1 Requirements and Test Summary

FCC Rules	Rules Description	Requirement	Result
Transmitter Section			
2.1046 95.639 (d) 95.639 (a) (1)	Effective Radiated Power	0.5W for FRS 50 W for GMRS	Complied
2.1047 95.631 (d) 95.637 (a)	Modulation Characteristics F3E analogy voice Peak Frequency Deviation Audio Frequency Response	Deviation < 2.5 kHz for FRS Deviation < 5 kHz for GMRS	Complied
2.1049 95.633 (a) 95.633 (c)	Occupied Bandwidth	FRS: 12.5 kHz GMRS: 20 kHz	Complied
2.1053 15.109 (a)	Field Strength of Spurious Radiation	Worst Case < 48dB	Complied
15.109 (f) 15.33 (a)	Spurious Emission	Complied	Complied
15.107	Line Conducted Emissions	N/A	Complied
2.1055 95.621 95.627	Frequency Stability Vs. Temperature Vs. Voltage	Deviation < 5 ppm for GMRS Deviation < 2.5 ppm for FRS	Complied
Receiver Section			
15.109 (a)	Radiated Emission	Worst case < 48dB	Complied

#### 3.2 Labeling Requirement

Each equipment for which a type acceptance applications is filed on or after May 1, 1981, shall bear an identification plate or label pursuant to §2.295 (Identification of Equipment) and §2.926 (FCC identifier)

In August 1996 the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for hand-held wireless devices.

Generally users manual contains a RF exposure statement to indicate compliance with FCC requirements.

The users manual should also contain required information and instruction pursuant to 95.653.



## 4 - EFFECTIVE RADIATED POWER

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### 4.1 Provision Applicable

Per FCC §2.1046 and FCC § 95.639 (d), no FRS unit, under any condition of modulation, shall exceed 0.500W effective radiated power (ERP).

Per FCC §2.1046 and FCC § 95.639 (a) (1), no GMRS unit, under any condition of modulation, shall exceed 50W Carrier Power (average TP during one unmodulated RF cycle) when transmission type A1D, F1D, .G1D, A3E, F3E or G3E.

### 4.2 Test Procedure

1. On a test site, the EUT shall be placed at 1.5m height on a turn table, and in the position closest to normal use as declared by the applicant.
2. The test antenna shall be oriented initially for vertical polarization located 3m from EUT to correspond to the frequency of the transmitter.
3. The output of the test antenna shall be connected to the measuring receiver and the quasi-peak detector is used for the measurement.
4. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test.
5. The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
6. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
7. The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
8. The maximum signal level detected by the measuring receiver shall be noted.
9. The transmitter shall be replaced by a tuned dipole (substitution antenna).
10. The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
11. The substitution antenna shall be connected to a calibrated signal generator.
12. In necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
13. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
14. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, which is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
15. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.

16. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
17. The measure of the effective radiated power is the large of the two levels recorded, at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.

#### 4.3 Test equipment

- Signal Generator  
Manufacturer: Hewlett Packard  
Model: OPT001  
S/N: 3217A04699  
Calibration Due Date: 2/5/04
- Dipole Antenna  
Manufacturer: Com Power Corporation  
Model: AD-100  
S/N: 02222  
Calibration Due Date: 7/23/03

#### 4.4 Test Results

The measured output power showed as follows:

Low Channel (Channel 1) for FRS & GMRS: 20.45 dBm (110.9mW) at 462.5625 MHz

Mid Channel (Channel 22) for GMRS: 20.53 dBm (113.0mW) at 462.725 MHz

High Channel (Channel 14) for FRS: 20.1 dBm (102.3mW) at 467.7125 MHz

## 5 - MODULATION CHARACTERISTICS

### 5.1 Provision Applicable

Per FCC § 2.1047 and FCC §95.637 (a), a GMRS transmitter that transmits emission types F3E must not exceed a peak frequency deviation of plus or minus 5 kHz. A FRS unit that transmits emission type F3E must not exceed a peak frequency deviation of plus or minus 2.5 kHz, and the audio frequency response must not exceed 3.125 kHz.

### 5.2 Test Procedure

#### 5.2.1 Audio Frequency Response

The RF output of the transceiver was connected to the input of a FM deviation meter through sufficient attenuation so as not to overload the meter or distort the reading. An audio signal generator was coupled into the external microphone jack of the transceiver, or alternatively, the microphone element was removed the generator output was connected to the microphone connectors.

The audio signal input level was adjusted to obtain 20% of the maximum rated system deviation at 1 kHz, and recorded as DEVREF. With the audio signal generator level unchanged, set the generator frequency between 100 Hz to 5000 Hz. The transmitter deviations (DEVFREQ) were measured and the audio frequency response was calculated as

$$20\log_{10} [\text{DEV}_{\text{FREQ}} / \text{DEV}_{\text{REF}}]$$

#### 5.2.2 Audio Low-Pass Filter Response

An audio signal generator and an audio spectrum analyzer were connected to the input and output of the post limiter low pass filter respectively. The audio signal generator frequency was set between 1000 Hz and the upper low pass filter limit. The audio frequency response at test frequency was calculated as

$$\text{LEV}_{\text{FREQ}} - \text{LEV}_{\text{REF}}$$

#### 5.2.3 Modulation Limiting

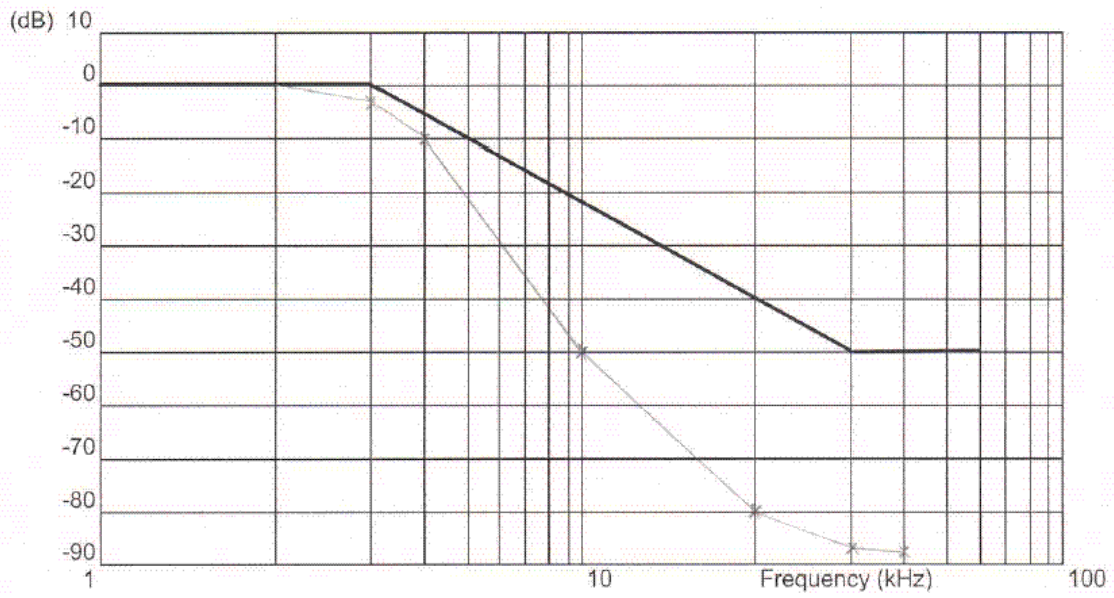
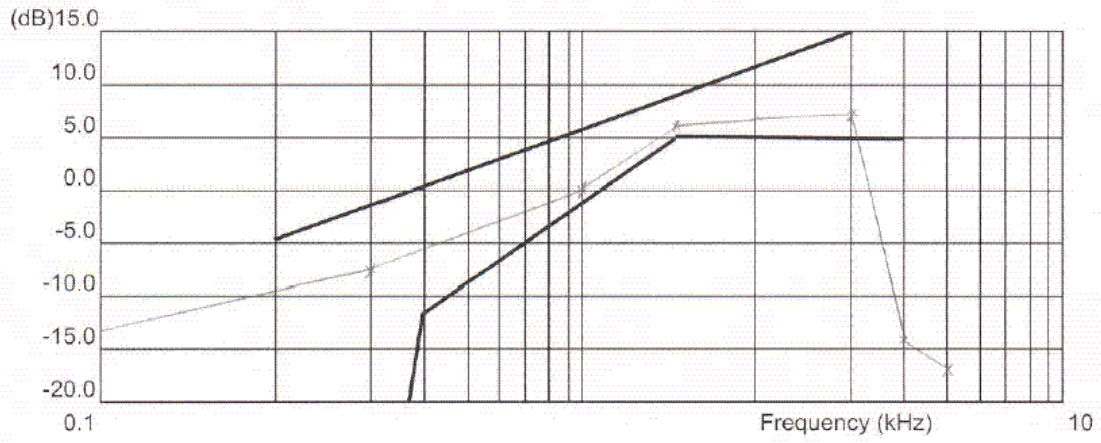
With the same setup as section 5.2.1 above, at three different modulating frequencies, the output level of the audio generator was varied and the FM deviation level was recorded.

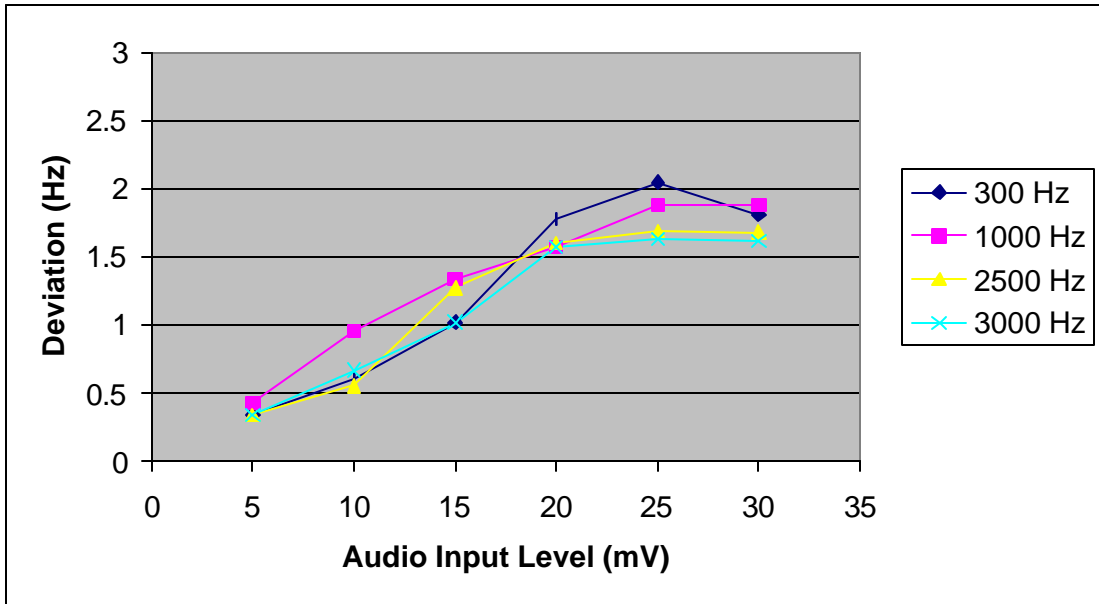
### 5.3 Test Equipment

Hewlett Packard HP8566B Spectrum Analyzer  
Hewlett Packard HP 7470A Plotter  
Hewlett Packard HP8901A Modulation Analyzer  
Lecroy 9350A Oscilloscope

### 5.4 Test Results

The plot(s) of modulation characteristic is presented hereinafter as reference.





## **6 - OCCUPIED BANDWIDTH OF EMISSION**

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### **6.1 Provision Applicable**

Per FCC §2.1049 and FCC §95.633 (a), the authorized bandwidth for emission type F3E transmitted is 20 kHz.

Per FCC §2.1049 and FCC §95.633 (c), the authorized bandwidth for emission type F3E transmitted by a FRS unit is 12.5 kHz.

### **6.2 Test Procedure**

The antenna was disconnected from the transmitter and the short cable was connected to the transmitter RF output.

The RF output was connected to the input of the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set up at least 10 times higher than the authorized bandwidth of the transmitter. With the transmitter keyed, the level of the unmodulated carrier was set to the full scale reference line of the spectrum analyzer. This is used as a 0dB reference for emission mask measurements.

The transmitter was then modulated with a 2500 Hz tone at an input level 20 dB greater than the necessary to produce 50% of rated system deviation. The resolution bandwidth of the spectrum analyzer was set up to 300 Hz and the spectrum of the transmitting signal was recorded. This spectrum was compared to the required emission mask.

### **6.3 Test Equipment**

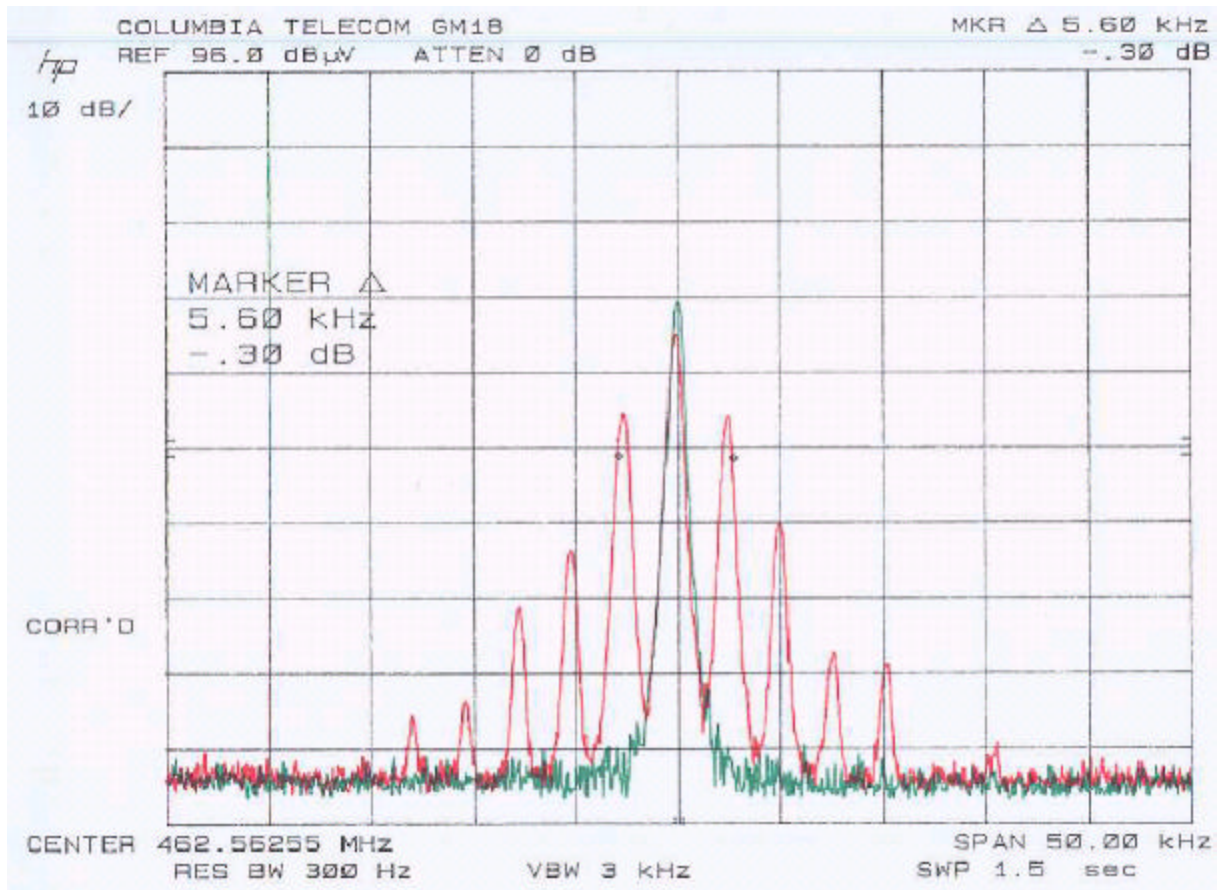
Leader LFG-1300S Function Generator  
Hewlett Packard HP8566B Spectrum Analyzer  
Hewlett Packard HP 7470A Plotter

### **6.4 Test Results**

Test Result: Pass  
Please refer the following curve and plots.

### **6.5 Emission Designator**

$2M + 2D = (2 \times 3 \text{ kHz}) + (2 \times 2.5 \text{ kHz}) = 11K0F3E$



## 7 - RADIATED SPURIOUS EMISSION

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### 7.1 Provision Applicable

According to FCC §2.1053, measurements shall be made to detect spurious emission that may be radiated directly from the cabinet, control circuits, power leads, or intermediated circuit elements under normal condition of installation and operation. Information submitted shall include the relative radiated power of spurious emission with reference to the rated power output of the transmitter, assuming all emissions are radiated from a halfwave dipole antenna.

### 7.2 Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB =  $10 \lg(\text{TXpwr in Watts}/0.001)$  – the absolute level

Spurious attenuation limit in dB =  $43 + 10 \text{Log}_{10}(\text{power out in Watts})$

### 7.3 Test Result

Low Frequency: -10.4dBm at 925.125MHz, GMRS & FRS

Mid Frequency: -10.0dBm at 925.45MHz, GMRS

High Frequency: -13.4dBm at 935.425MHz, FRS



## Low Frequency, Channel 1, GMRS &amp; FRS, 30 – 50000Mhz

EUT					Generator							Standard	
Indicated		Table	Test Antenna		Substitution			Antenna	Cable	Absolute	FCC	FCC	
Frequency MHz	Ampl. dBuV/m	Angle Degree	Height Meter	Polar H/V	Frequency MHz	Level dBm	Polar H/V	Gain Corrected	Loss dBm	Level dBm	Limit dBm	Margin DBm	
462.5625	120.3	0	1.2	v	462.5625	20.95	v	0	0.5	20.45			
462.5625	118	30	1	h	462.5625	19.1	h	0	0.5	18.6			
925.125	56.2	260	1.2	v	925.125	-22.9	v	0	0.5	-23.4	-13	-10.4	
925.125	55.3	210	1.5	h	925.125	-23.9	h	0	0.5	-24.4	-13	-11.4	
1387.6875	45.7	310	1.5	v	1387.688	-30.3	v	0	0.7	-31	-13	-18.0	
1387.6875	46.2	160	1.2	h	1387.688	-31.5	h	0	0.7	-32.2	-13	-19.2	

## Mid Frequency, Channel 22, GMRS, 30 – 50000Mhz

EUT					Generator							Standard	
Indicated		Table	Test Antenna		Substitution			Antenna	Cable	Absolute	FCC	FCC	
Frequency MHz	Ampl. dBuV/m	Angle Degree	Height Meter	Polar H/V	Frequency MHz	Level dBm	Polar H/V	Gain Corrected	Loss dBm	Level dBm	Limit dBm	Margin DBm	
462.725	120.5	60	1.5	v	462.725	21.03	v	0	0.5	20.53			
462.725	119.1	90	1.5	h	462.725	19.84	h	0	0.5	19.34			
925.45	56.4	30	1.2	v	925.45	-22.5	v	0	0.5	-23	-13	-10.0	
925.45	55.3	110	1.5	h	925.45	-23.1	h	0	0.5	-23.6	-13	-10.6	
1388.175	45.9	120	1.5	v	1388.175	-29.7	v	0	0.7	-30.4	-13	-17.4	
1388.175	46.7	230	1.2	h	1388.175	-30.6	h	0	0.7	-31.3	-13	-18.3	

## High Frequency, Channel 14, FRS, 30 – 50000Mhz

EUT					Generator							Standard	
Indicated		Table	Test Antenna		Substitution			Antenna	Cable	Absolute	FCC	FCC	
Frequency MHz	Ampl. dBuV/m	Angle Degree	Height Meter	Polar H/V	Frequency MHz	Level dBm	Polar H/V	Gain Corrected	Loss dBm	Level dBm	Limit dBm	Margin DBm	
467.7125	120.1	180	1.2	v	467.7125	20.6	v	0	0.5	20.1			
467.7125	114.8	120	1.5	h	467.7125	17.27	h	0	0.5	16.77			
935.425	53.0	45	1.5	v	935.425	-25.9	v	0	0.5	-26.4	-13	-13.4	
935.425	53.2	90	1.2	h	935.425	-26.0	h	0	0.5	-26.5	-13	-13.5	
1403.1375	47.9	250	1.2	v	1403.138	-28.3	v	0	0.7	-29.0	-13	-16.0	
1403.1375	46.5	330	1.5	h	1403.138	-30.6	h	0	0.7	-31.3	-13	-18.3	

## **8 - SPURIOUS EMISSION AT ANTENNA TERMINAL**

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### **8.1 Standard Applicable**

Per FCC §95.635 b (1), at least 25 dB (decibels) on any frequency removed from the center of the authorized bandwidth by more than 50% up to and including 100% of the authorized bandwidth.

Per FCC §95.635 b (3), at least 35 dB on any frequency removed from the center of the authorized bandwidth by more than 100% up to and including 250% of the authorized bandwidth.

Per FCC §95.635 b (7), at least  $43 \pm 10 \log_{10}(T)$  dB on any frequency removed from the center of the authorized bandwidth by more than 250%.

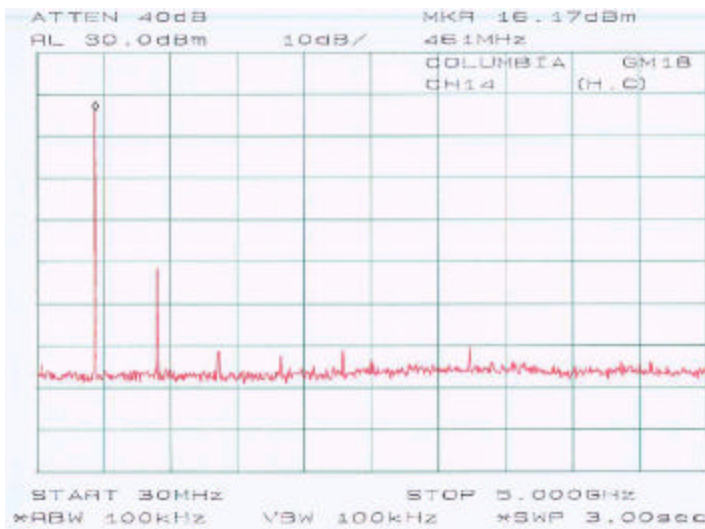
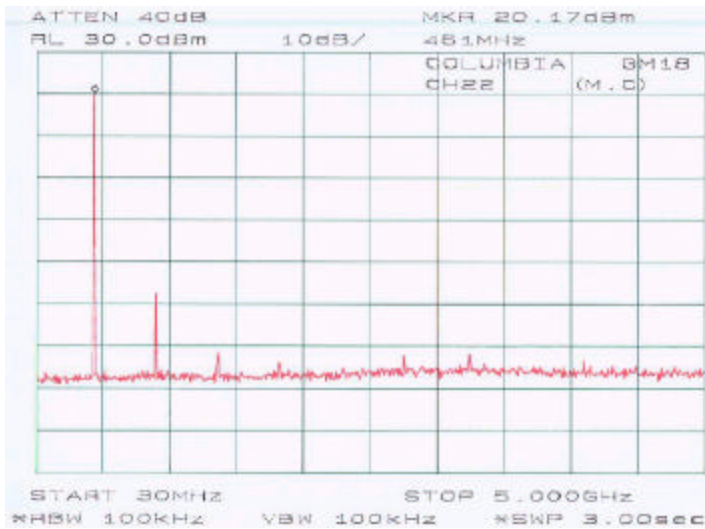
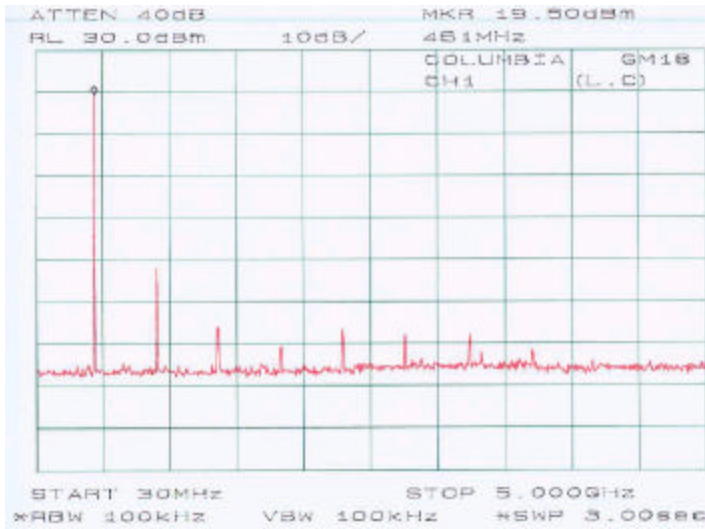
### **8.2 Measurement Procedure**

1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set the SA on Max-Hold Mode, and then keep the EUT in transmitting mode. Record all the signals from each channel until each one has been recorded.
4. Set the SA on View mode and then plot the result on SA screen.
5. Repeat above procedures until all frequencies measured were complete.
6. Spurious attenuation limits in dB =  $43 + 10\text{Log}_{10}(\text{power out in Watts})$

### **8.3 Test Result**

**Result:** Pass

Please refer the hereinafter plots for more information.



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## **9 - AC LINE CONDUCTED EMISSIONS**

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### **9.1 Applicable Requirements**

According to ANSI C63.4 and FCC §15.107, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is connected back onto the AC power line on any frequency or frequencies within the band 450 kHz to 30 MHz shall not exceed 250 microvolts.

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

### **9.2 Test Procedure**

The EUT shall be connected to the DC power supply which shall be connected to the AC line through the first LISN. Both hot and neutral leads shall be tested.

### **9.3 Test Equipment**

HP 8566B Spectrum Analyzer  
LISN

### **9.4 Test Results**

Not applicable because of battery operation.

## 10 - FREQUENCY STABILITY MEASUREMENT

### 10.1 Provision Applicable

According to FCC §2.1055(a)(1), the frequency stability shall be measure with variation of ambient temperature from  $-30^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$ , and according to FCC 2.1055(d)(2), the frequency stability shall be measured with reducing primary supply voltage to the battery operating end point which is specified by the manufacturer.

According to FCC §95.621 (a), the GMRS transmitter channel frequencies (reference frequencies from which the carrier frequency, suppressed or otherwise, may not deviate by more than the specified frequency to tolerance) are 462.5500, 462.5625, 462.5750, 462.5875, 462.6000, 462.6125, 462.6250, 462.6375, 462.6500, 462.6625, 462.6750, 462.6875, 462.7000, 462.7125, 462.7250, 467.5500, 467.5750, 467.6000, 467.6250, 467.6500, 467.6750, 467.7000 and 467.7250.

According to FCC §95.621 (b), each GMRS transmitter for mobile station, small base station and control station operation must be maintained within a frequency tolerance of 0.0005%. Each GMRS transmitter for base station (except small base), mobile rely station or fixed station operation must be maintained within a frequency tolerance of 0.00025%.

According to FCC §95.627, each FRS unit must be maintained within a frequency tolerance of 0.00025%.

### 10.2 Test Procedure

#### 10.2.1 Frequency stability versus environmental temperature

The equipment under test was connected to an external DC power supply and the RF output was connected to a frequency counter via feedthrough attenuators. The EUT was placed inside the temperature chamber.

After the temperature stabilized for approximately 20 minutes, the frequency of the output signal was recorded from the counter.

#### 10.2.2 Frequency Stability versus Input Voltage

At room temperature ( $25\pm 5^{\circ}\text{C}$ ), an external variable DC power supply was connected to the EUT. The frequency of the transmitter was measured for 115%, 100% and 85% of the nominal operating input voltage.

### 10.3 Test Equipment

Temperature Chamber,  $-50^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$   
Hewlett Packard HP8566B Spectrum Analyzer  
Hewlett Packard HP 7470A Plotter  
Hewlett Packard HP 5383A Frequency Counter  
Goldstar DC Power Supply, GR303

**10.4 Test Results**

Reference Frequency: 462.5625 MHz, Limit: 2.5ppm			
Environment Temperature (°C)	Power Supplied (Vdc)	Frequency Measure with Time Elapsed	
		MCF (MHz)	PPM Error
50	New Batt.	462.5625	0.0
40	New Batt.	462.5627	0.7
30	New Batt.	462.5620	-1.2
20	New Batt.	462.5623	-0.6
10	New Batt.	462.5624	-0.3
0	New Batt.	462.5624	-0.3
-10	New Batt.	462.5620	-1.3
-20	New Batt.	462.5632	1.2
-30	New Batt.	462.5630	1.0

*Frequency Stability Versus Input Voltage*

Reference Frequency: 462.5625 MHz, Limit: 2.5ppm						
Power Supplied (Vdc)	Frequency Measure with Time Elapsed					
	2 Minutes		5 Minutes		10 Minutes	
	MHz	%	MHz	%	MHz	%
4.8Vdc	462.5625	0.0	462.5617	-1.7	462.5625	0.0

End Point = 4.8 V

Conclusion: The EUT complied with the applicable Frequency Stability Limits.