

# **EXHIBIT H** Paragraph 2.985(a) Effective Radiated Power (Power Output) **Retlif Testing Laboratories** Test Report Number R-8034-2

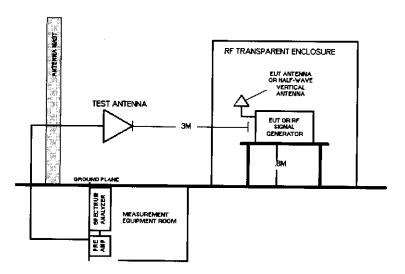
FCC ID: CCRH32M

### EFFECTIVE RADIATED POWER (POWER OUTPUT) (Para. 2.985(a)

### A. Measurement Procedure:

The transmitter under test was placed on an 80cm high turntable located on an Open Air Test Site (OATS). The antenna of the transmitter under test was vertically polarized. A dipole antenna (also vertically polarized) was placed 3 Meters away. The dipole antenna was raised and lowered and the turntable rotated until the maximum field strength was measured. The transmitter under test was then removed and was replaced with a dipole antenna and signal generator. The output of the signal generator was then adjusted until the field strength matched that of the transmitter under test. The input of the dipole from the signal generator was then measured and this was the level determined to be the effective radiated power. This test was performed on the lower and upper areas of the device's operating frequency range.

Setup of the test is shown below:



### B. Test Results:

The results for the above test are shown of the following single data sheet.



### **Retlif Testing Laboratories**

Test Method:	Effective Radiated Power	Effective Radiated Power							
Customer:	Samson Technologies	· · · · · · · · · · · · · · · · · · ·	Job No.	R-8034-2					
Test Sample:	Wireless Handheld Trans	smitter	FCC ID	CCRH32M					
Model No.:	H32M	<u> </u>	Serial No.	N/A					
Operating Mode	Continuously transmitng a	at the frequency							
Test	FCC Part 74 Experimental Radio, Auxilary, Special Broadcast and other Program								
Specification	Distributional Services		aph: 74.861(e)(1)	<u> </u>					
Technician:	Dennis Cortes		Date	April 27,1999					
Notes: Test Di	stance: 3 Meters Ten	np: 22C	Humidity: 24%						
Detecto	or: Peak	•	•						

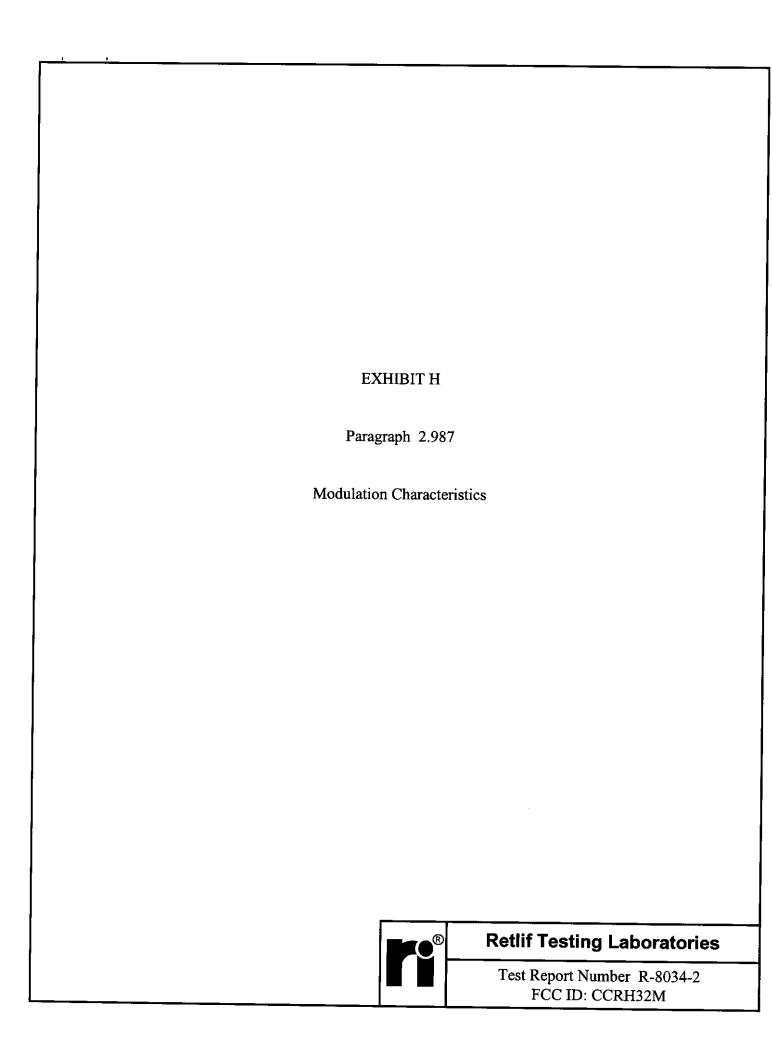
Detector: Peak

	Detector: Peak					
Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Substitution Antenna. Reading	Converted Reading	Limit
Mhz	(V/H) / Degrees	Degrees	dBuv	dBm	mW	mW
<del></del>						
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004 405						
801.125	V-1.2	315	74.7	4.3	2.7	250
801.125	H-1.4	023	72.3	1.6	1.5	250
005.00	7/40					
805.00	V-1.2	023	73.7	4.1	2.6	250
805.00	H-1.2	023	71.8	1.8	1.5	250
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The EUT was placed on a tabletop, and the radiated output level was measured with a dipole antenna. After the level was maximized, the EUT was replaced with another dipole and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and this was considered to be the output power.



### **Retlif Testing Laboratories**

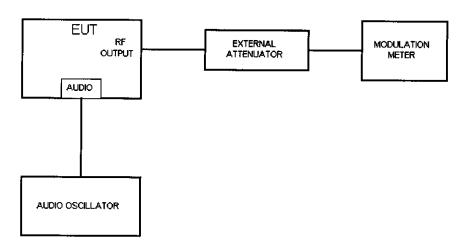


### **MODULATION CHARACTERISTICS (2.987)**

### A. Measurement Procedure:

An Audio Oscillator was coupled to the Audio Input of the transmitter under test. The RF Output at the antenna terminals was loosely coupled to a modulation meter as shown below. The Audio Input level was adjusted from -60dBm to +10dBm at each frequency listed herein. At each test frequency and level, the FM modulation was recorded.

Setup of the above test is shown below:



### C. Test Results:

The results for the above test are shown in the following two data sheets.



### **Retlif Testing Laboratories**

Test Method:		Audio	Frequency R	esnonse nar	a· 2 987(a)	····		
Customer:			on Technolog		a. 2.007 (a)	Job No.	R-8034-2	
Test Sample:			ess Handheld			FCC ID:	CCRH32M	
Model No.:		H32M				Serial No.	N/A	
Operating Mod	le:			ransmitting 80	3 Mhz signal	1 0017471101	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Test Specifica	tion:	FCC I		rimental radio		ecial broadcast ar	nd other prograr	n
Technician:			s Cortes			Date:	April 18,1999	
			nt set at maxir nidity:21C	num.				
Audio Frequency		out vel	Deviation					
Hz	dE	3m	Khz					
50		)	32.7					
100	(	)	31.0					
500	(	)	30.1					
1000	(	)	34.2					
2500	(	)	36.3					
5000	(	)	38.3					
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MODULATION CHARACTERISTICS, Para 2.987	7	
Samson Technologies	·	R-8034-2
Wireless Handheld Transmitter	FCC ID	CCRH32M
H32M	Serial No.	N/A
EUT continuously transmitting 803 Mhz signal		
	cial broadcast a	nd other program
Dennis Cortes 2	Date:	April 18,1999
	Samson Technologies Wireless Handheld Transmitter H32M EUT continuously transmitting 803 Mhz signal FCC part 74; Experimental Radio, Auxiliary, Spedistributional services paragraph: 74.861	Samson Technologies  Wireless Handheld Transmitter  H32M  EUT continuously transmitting 803 Mhz signal  FCC part 74; Experimental Radio, Auxiliary, Special broadcast a distributional services  paragraph: 74.861

Level adjustment set at maximum. Temp:23C Humidity:21C

Frequency   Level   Limit   Frequency   Level   Level   Limit   Hz   dBm   Khz   Khz   Hz   dBm   Khz   Khz   S0   -60   2.1   75.0   2500   -60   2.8   75.0   50   -50   3.3   2500   -40   7.2   1.0		inp.23C nu	T					
Hz	Audio	Input	Deviation				Deviation	Deviation
\$\begin{array}{c c c c c c c c c c c c c c c c c c c						Level		Limit
S0					Hz	dBm	Khz	Khz
50         -40         5.3         2500         -40         7.2         1         50         -30         8.7         2500         -30         12.4         1         1         12500         -20         21.6         1		-60	2.1	75.0			2.8	75.0
50         -30         8.7         2500         -30         12.4                     50         -20         14.6                   2500         -20         21.6                     50         -10         24.7                   2500         -10         29.5                     50         0         32.7         2500         0         36.3                               50         10         30.0                   2500         10         37.1                     100         -60         2.2                   5000         -60         4.2                     100         -60         2.2                   5000         -50         7.1                     100         -60         2.2                   5000         -50         7.1                               100         -50         3.4                   5000         -50         7.1	50					-50	4.4	
50         -20         14.6         2500         -20         21.6           50         -10         24.7         2500         -10         29.5           50         0         32.7         2500         0         36.3                     50         10         30.0         2500         10         37.1                     100         -60         2.2         5000         -60         4.2                     100         -50         3.4         5000         -50         7.1                     100         -40         5.5         5000         -40         12.0                     100         -30         9.0         5000         -40         12.0                     100         -30         9.0         5000         -30         21.1                     100         -30         9.0         5000         -40         12.0                     100         -30         9.0         5000         -30         21.1                     100         -10         24.9         5000         -20         30.4                     100         0         31.0         5000								<del>                                     </del>
50         -10         24.7         2500         -10         29.5				<del>  -                                   </del>				
50         0         32.7         2500         0         36.3                     50         10         30.0                   2500         10         37.1                     100         -60         2.2                   5000         -60         4.2                     100         -50         3.4         5000         -50         7.1                               100         -40         5.5                   5000         -40         12.0                     100         -30         9.0                   5000         -30         21.1                               100         -30         9.0                   5000         -30         21.1				<del>                                     </del>				
50         10         30.0         2550         10         37.1                     100         -60         2.2         5000         -60         4.2                     100         -50         3.4         5000         -50         7.1                     100         -40         5.5         5000         -40         12.0                     100         -30         9.0         5000         -30         21.1                     100         -30         9.0         5000         -30         21.1                     100         -20         15.1         5000         -20         30.4                     100         -10         24.9         5000         -10         35.2                     100         0         31.0         5000         0         38.3                     100         10         32.5         5000         10         39.6                     500         -60         2.2         10000         -60         8.1                     500         -50         3.4         10000         -60         8.1                     500         -30								ļl
100								
100	50	10	30.0	<u> </u>	2500	10	37.1	<u></u> _
100	100	60		<u> </u>				
100         -40         5.5           5000         -40         12.0           100         -30         9.0           5000         -30         21.1                     100         -20         15.1           5000         -20         30.4                     100         -10         24.9           5000         -10         35.2                     100         0         31.0           5000         0         38.3                     100         10         32.5           5000         0         38.3                     100         10         32.5           5000         0         38.3                     500         -60         2.2           10000         -60         8.1                     500         -50         3.4           10000         -50         14.1                     500         -50         3.4           10000         -50         14.1                     500         -30         9.3           10000         -40         24.6                     500         -30         9.3           10000         -30         36.1                     500         -10 <td></td> <td><del></del></td> <td></td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td>		<del></del>		<u> </u>				
100         -30         9.0         5000         -30         21.1           100         -20         15.1         5000         -20         30.4           100         -10         24.9         5000         -10         35.2           100         0         31.0         5000         0         38.3           100         10         32.5         5000         10         39.6           500         -60         2.2         10000         -60         8.1           500         -50         3.4         10000         -50         14.1           500         -40         5.5         10000         -40         24.6           500         -30         9.3         10000         -30         36.1           500         -30         9.3         10000         -20         38.0           500         -30         9.3         10000         -20         38.0           500         -10         25.8         10000         -20         38.0           500         -10         25.8         10000         -10         38.3           500         0         30.1         10000         -0								<u> </u>
100         -20         15.1         5000         -20         30.4                   100         -10         24.9                   5000         -10         35.2                   100         100         31.0                   5000         -10         35.2                   100         10         39.6                             100         10         39.6								
100         -10         24.9                   5000         -10         35.2                     100         0         31.0                   5000         0         38.3                     100         10         32.5                   5000         10         39.6                     500         -60         2.2                   10000         -60         8.1                     500         -50         3.4                   10000         -50         14.1                     500         -50         3.4                   10000         -50         14.1                     500         -40         5.5                   10000         -40         24.6                     500         -30         9.3                   10000         -30         36.1                     500         -30         9.3                   10000         -20         38.0                     500         -10         25.8                   10000         -10         38.3                     500         0         30.1                   10000         -0         38.0           <t< td=""><td></td><td><del></del></td><td></td><td><u> </u></td><td></td><td></td><td></td><td>1</td></t<>		<del></del>		<u> </u>				1
100         0         31.0                   5000         0         38.3                     100         10         32.5                   5000         10         39.6                     500         -60         2.2                   10000         -60         8.1                     500         -50         3.4                   10000         -50         14.1                     500         -40         5.5                   10000         -40         24.6                     500         -30         9.3                   10000         -30         36.1                     500         -30         9.3                   10000         -20         38.0                     500         -30         9.3                   10000         -20         38.0                     500         -10         25.8                   10000         -10         38.3                     500         0         30.1                   10000         0         38.0                     500         10         38.2                   10000         0         37.4								
100         10         32.5         5000         10         39.6						-10	35.2	Ī
500         -60         2.2                   10000         -60         8.1                     500         -50         3.4                   10000         -50         14.1                     500         -40         5.5                   10000         -40         24.6                     500         -30         9.3                   10000         -30         36.1                     500         -20         16.1                   10000         -20         38.0                     500         -10         25.8                   10000         -10         38.3                     500         0         30.1                   10000         -10         38.3                     500         0         30.1                   10000         0         38.0                     500         10         38.2                   10000         0         38.0                     1000         -60         2.3                   15000         -60         11.2                     1000         -50         3.5                   15000         -50         19.5					5000	0	38.3	1
500         -50         3.4                   10000         -50         14.1                     500         -40         5.5                   10000         -40         24.6                     500         -30         9.3                   10000         -30         36.1                     500         -20         16.1                   10000         -20         38.0                     500         -10         25.8                   10000         -10         38.3                     500         0         30.1                   10000         0         38.0                     500         10         38.2                   10000         0         38.0                     500         10         38.2                   10000         0         38.0                     1000         -60         2.3                   10000         10         37.4                     1000         -50         3.5                   15000         -60         11.2                     1000         -40         3.5                   15000         -50         19.5	100	10	32.5		5000	10	39.6	
500         -50         3.4                   10000         -50         14.1                     500         -40         5.5                   10000         -40         24.6                     500         -30         9.3                   10000         -30         36.1                     500         -20         16.1                   10000         -20         38.0                     500         -10         25.8                   10000         -10         38.3                     500         0         30.1                   10000         0         38.0                     500         10         38.2                   10000         0         38.0                     500         10         38.2                   10000         0         38.0                     1000         -60         2.3                   10000         10         37.4                     1000         -50         3.5                   15000         -60         11.2                     1000         -40         3.5                   15000         -50         19.5	<u></u>	<u> </u>		j			"""	İ
500         -40         5.5                   10000         -40         24.6                     500         -30         9.3                   10000         -30         36.1                     500         -20         16.1                   10000         -20         38.0                     500         -10         25.8                   10000         -10         38.3                     500         0         30.1                   10000         0         38.0                     500         10         38.2                   10000         0         38.0                     1000         -60         2.3                   10000         10         37.4                     1000         -60         2.3                   15000         -60         11.2                     1000         -50         3.5                   15000         -50         19.5                     1000         -40         5.6                   15000         -40         33.8                     1000         -30         9.6                   15000         -30         41.8           <td></td> <td></td> <td></td> <td></td> <td>10000</td> <td>-60</td> <td>8.1</td> <td>i</td>					10000	-60	8.1	i
500         -30         9.3           10000         -30         36.1                     500         -20         16.1           10000         -20         38.0                     500         -10         25.8           10000         -10         38.3                     500         0         30.1           10000         0         38.0                     500         10         38.2           10000         10         37.4                     1000         -60         2.3           15000         -60         11.2                     1000         -50         3.5           15000         -50         19.5                     1000         -40         5.6           15000         -40         33.8                     1000         -30         9.6           15000         -30         41.8                     1000         -20         16.7           15000         -20         44.5                     1000         -10         26.7           15000         -10         46.5                     1000         0         34.2         V         15000         0         46.2         V     <				1	10000	-50	14.1	
500         -30         9.3           10000         -30         36.1                     500         -20         16.1           10000         -20         38.0                     500         -10         25.8           10000         -10         38.3                     500         0         30.1           10000         0         38.0                     500         10         38.2           10000         10         37.4                     1000         -60         2.3           15000         -60         11.2                     1000         -50         3.5           15000         -50         19.5                     1000         -40         5.6           15000         -40         33.8                     1000         -30         9.6           15000         -30         41.8                     1000         -20         16.7           15000         -20         44.5                     1000         -10         26.7           15000         -10         46.5                     1000         0         34.2         V         15000         0         46.2         V     <		-40	5.5		10000	-40	<del> </del>	<u> </u>
500         -20         16.1                   10000         -20         38.0                     500         -10         25.8                   10000         -10         38.3                     500         0         30.1                   10000         0         38.0                     500         10         38.2                   10000         10         37.4                     1000         -60         2.3                   15000         -60         11.2                     1000         -50         3.5                   15000         -50         19.5                     1000         -40         5.6                   15000         -40         33.8                     1000         -30         9.6                   15000         -30         41.8                     1000         -20         16.7                   15000         -20         44.5                     1000         -10         26.7                   15000         -10         46.5                     1000         0         34.2         V         15000         0         46.2         V	500	-30	9.3	1	10000	-30	<del> </del>	
500         -10         25.8         10000         -10         38.3                     500         0         30.1         10000         0         38.0                     500         10         38.2         10000         10         37.4                     1000         -60         2.3         15000         -60         11.2                     1000         -50         3.5         15000         -50         19.5                     1000         -40         5.6         15000         -40         33.8                     1000         -30         9.6         15000         -30         41.8                     1000         -20         16.7         15000         -20         44.5                     1000         -10         26.7         15000         -10         46.5                     1000         0         34.2         V         15000         0         46.2         V	500	-20	16.1	i	10000			1
500         0         30.1                   10000         0         38.0                     500         10         38.2                   10000         10         37.4                     1000         -60         2.3                   15000         -60         11.2                     1000         -50         3.5                   15000         -50         19.5                     1000         -40         5.6                   15000         -40         33.8                     1000         -30         9.6                   15000         -30         41.8                     1000         -20         16.7                   15000         -20         44.5                     1000         -10         26.7                   15000         -10         46.5                     1000         0         34.2         V         15000         0         46.2         V		-10	25.8					1
500         10         38.2                   10000         10         37.4                     1000         -60         2.3                   15000         -60         11.2                     1000         -50         3.5                   15000         -50         19.5                     1000         -40         5.6                   15000         -40         33.8                     1000         -30         9.6                   15000         -30         41.8                     1000         -20         16.7                   15000         -20         44.5                     1000         -10         26.7                   15000         -10         46.5                     1000         0         34.2         V         15000         0         46.2         V		i	30.1		10000			
1000       -60       2.3               15000       -60       11.2                 1000       -50       3.5               15000       -50       19.5                 1000       -40       5.6               15000       -40       33.8                 1000       -30       9.6               15000       -30       41.8                 1000       -20       16.7               15000       -20       44.5                 1000       -10       26.7               15000       -10       46.5                 1000       0       34.2       V       15000       0       46.2       V	500	10	38.2				<del></del>	1
1000     -50     3.5           15000     -50     19.5       1000     -40     5.6           15000     -40     33.8             1000     -30     9.6           15000     -30     41.8             1000     -20     16.7           15000     -20     44.5             1000     -10     26.7           15000     -10     46.5             1000     0     34.2     V     15000     0     46.2     V				i		<u></u> - <u>-</u> -		
1000     -50     3.5           15000     -50     19.5       1000     -40     5.6           15000     -40     33.8             1000     -30     9.6           15000     -30     41.8             1000     -20     16.7           15000     -20     44.5             1000     -10     26.7           15000     -10     46.5             1000     0     34.2     V     15000     0     46.2     V	1000	-60	2.3		15000	-60	11.2	
1000     -40     5.6           15000     -40     33.8             1000     -30     9.6           15000     -30     41.8             1000     -20     16.7           15000     -20     44.5             1000     -10     26.7           15000     -10     46.5             1000     0     34.2     V     15000     0     46.2     V	1000	-50	3.5	i				
1000     -30     9.6           15000     -30     41.8             1000     -20     16.7           15000     -20     44.5             1000     -10     26.7           15000     -10     46.5             1000     0     34.2     V     15000     0     46.2     V	1000	-40		i				1
1000     -20     16.7           15000     -20     44.5             1000     -10     26.7           15000     -10     46.5             1000     0     34.2     V     15000     0     46.2     V	1000	-30	9.6	<del> </del>				
1000 -10 26.7   15000 -10 46.5   1000 0 34.2 V 15000 0 46.2 V	1000	-20		<del></del>				<u> </u>
1000 0 34.2 V 15000 0 46.2 V	1000	-10		<u> </u>				!
1000	1000	0		v				<del>- v</del>
1000   10   37.2   75.0   15000   10   46.0   75.0	1000	10	37.2	75.0	15000	10	46.0	75.0



# **Retlif Testing Laboratories**

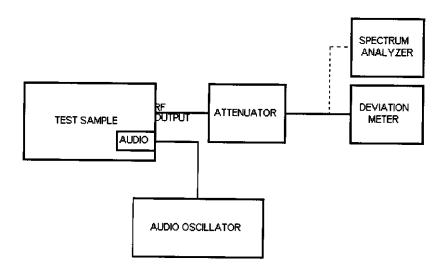
**EXHIBIT H** Paragraph 2.989 Occupied Bandwidth **Retlif Testing Laboratories** Test Report Number R-8034-2 FCC ID: CCRH32M

### OCCUPIED BANDWIDTH (PARA.2.989)

### A. Measurement Procedure:

An audio signal was electrically coupled to the audio input terminals of the test sample. The RF output was monitored using a deviation meter. The audio input level was increased to produce 50% modulation. The RF output was then loosely coupled through external attenuators to a spectrum analyzer and the audio level was increased by 16 dB. The occupied bandwidth of the RF carrier, modulated at 50% plus 16 dB, was then measured. The above procedure was performed with the audio input frequencies of 1000 Hz, 2500 Hz and 15 kHz applied to the unit. The modulated signal must be within the template as specified by the applicable paragraph in Part 74. The above was performed at the low and high frequencies.

Setup of the test is shown below:

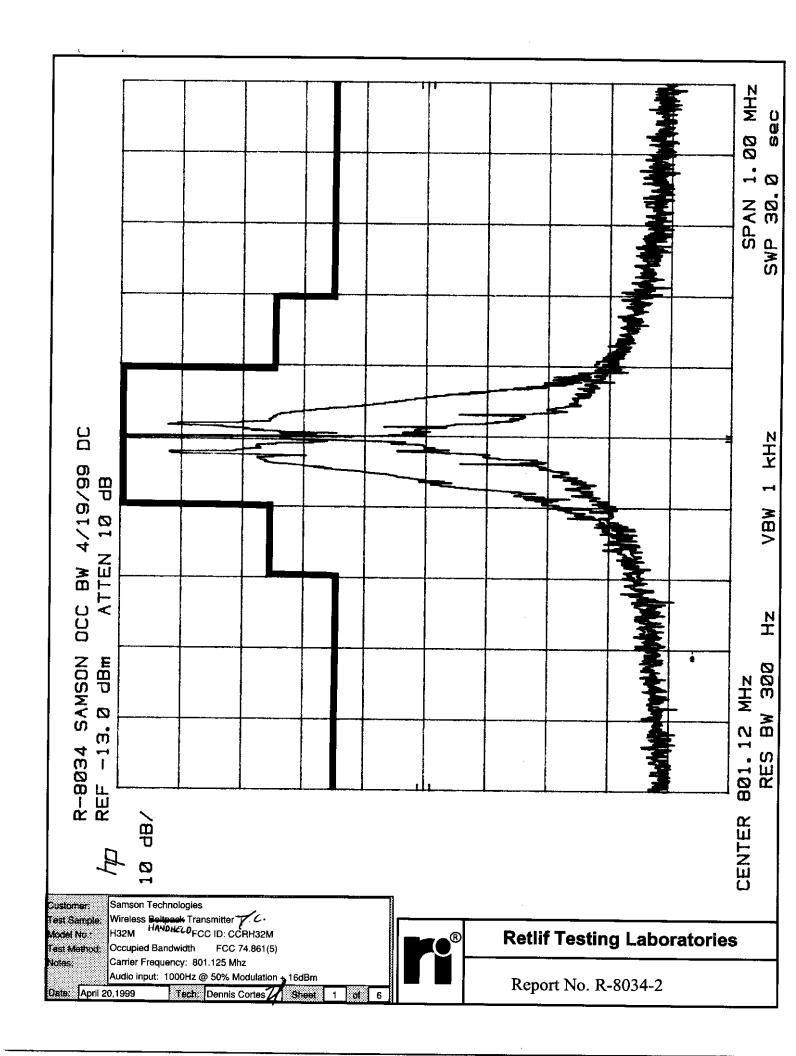


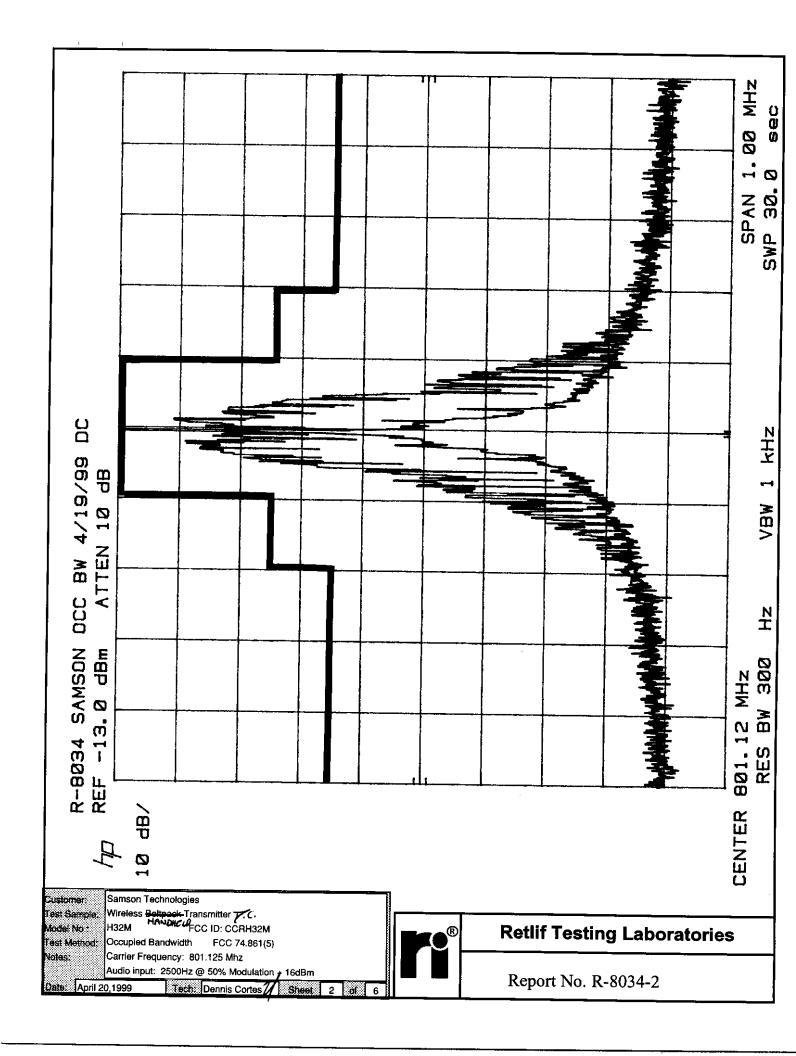
### B. Test Results:

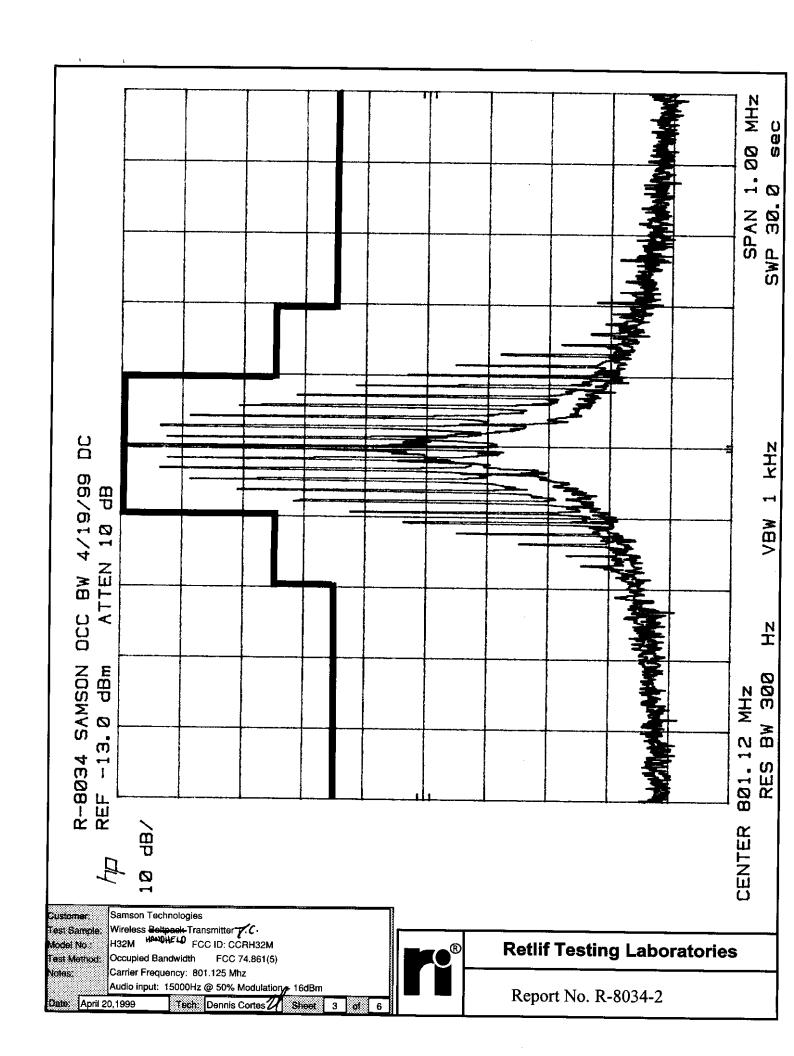
The results for the above test are shown of the following six (6) data sheet.

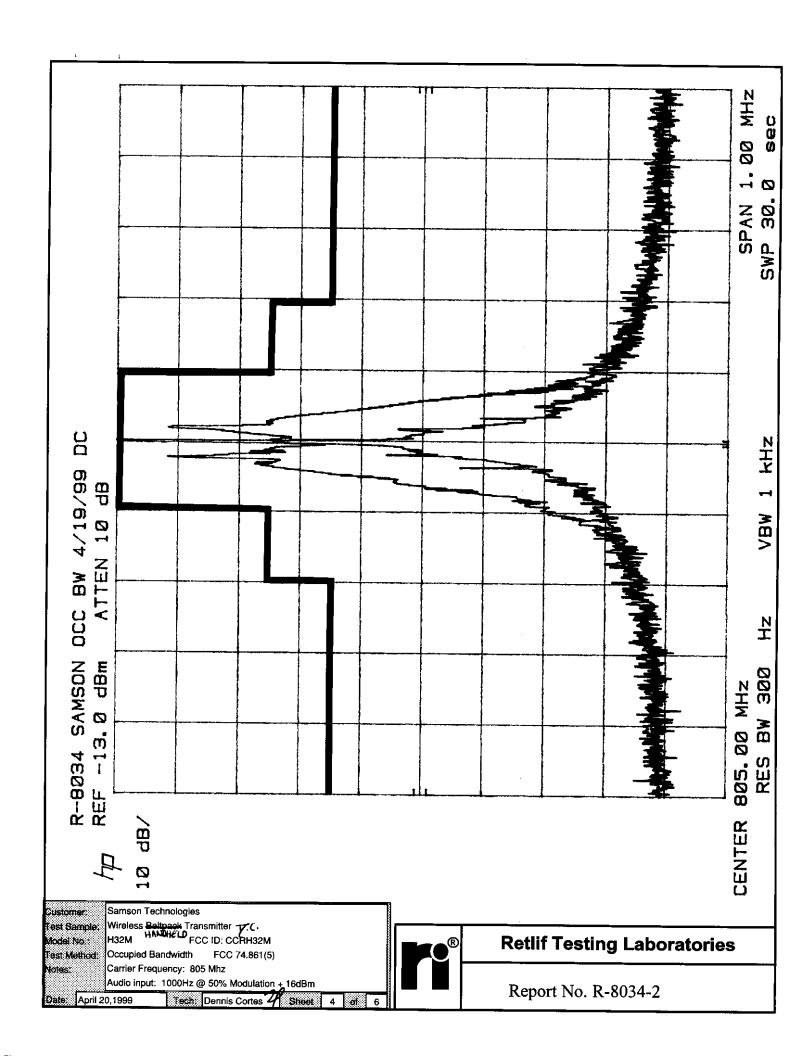


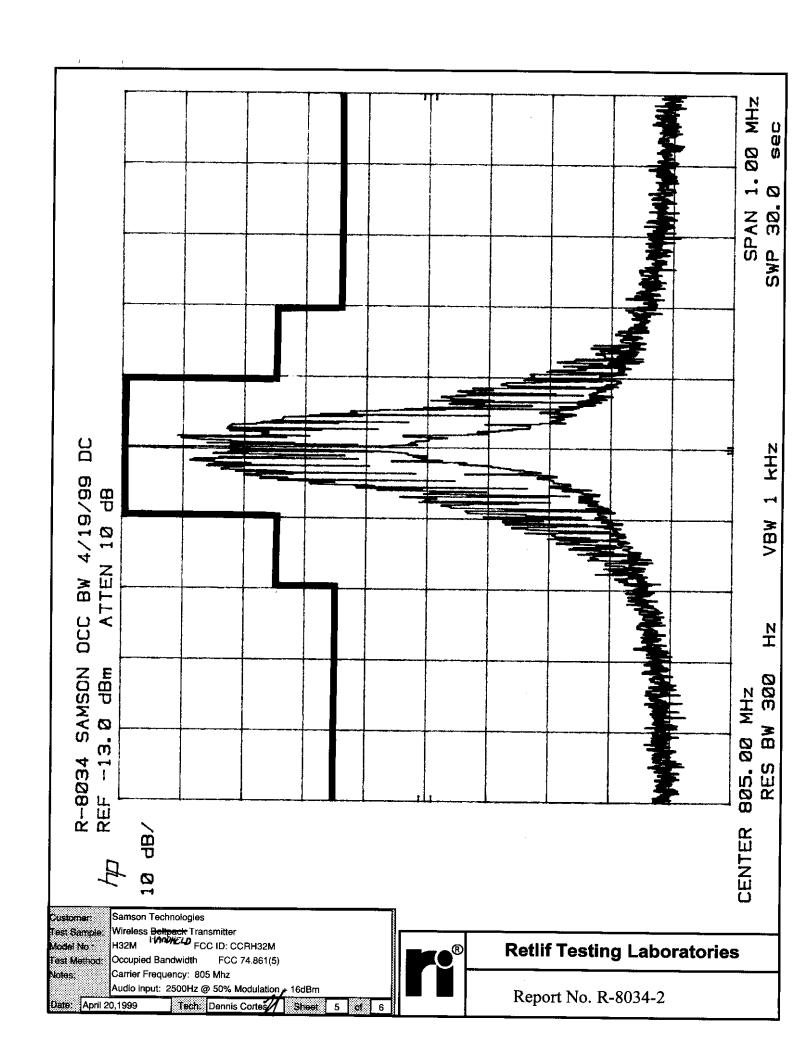
### **Retlif Testing Laboratories**

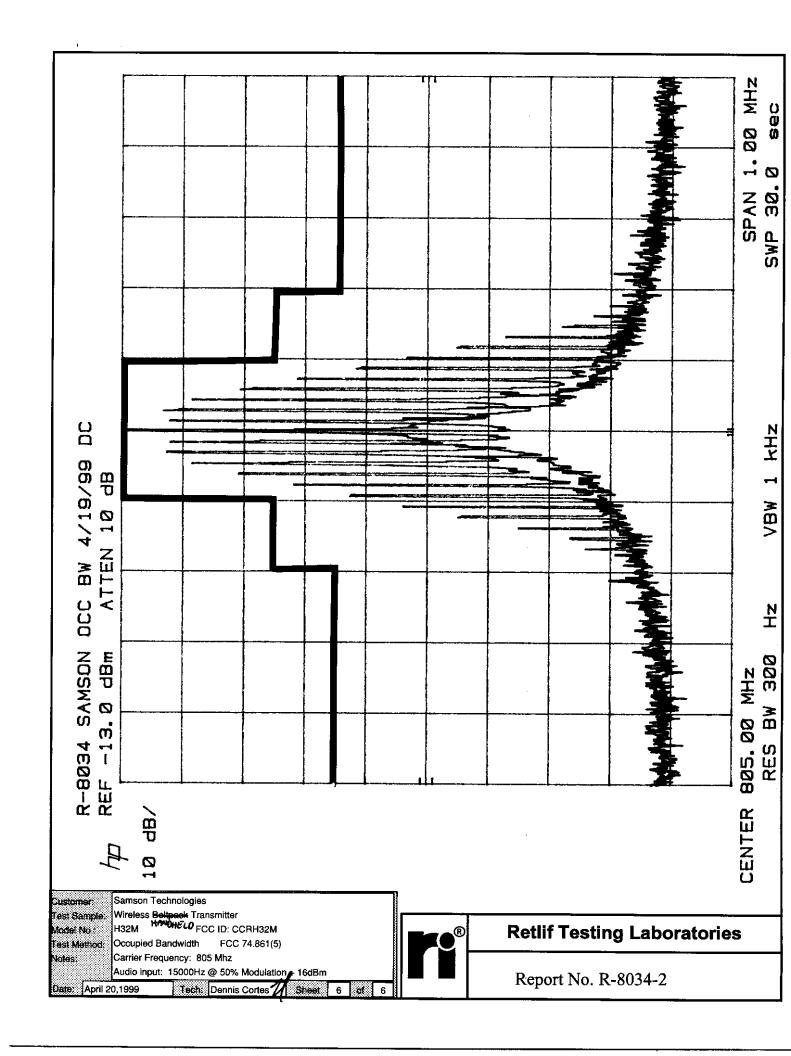












# **EXHIBIT H** Para. 2.993 Field Strength of Spurious Radiation **Retlif Testing Laboratories**

# FIELD STRENGTH OF SPURIOUS RADIATION (PARA 2.993)

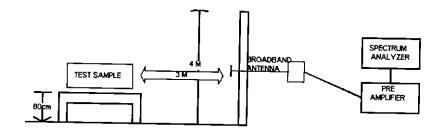
### A. Measurement Procedure:

The test sample was then placed on an 80cm high wooden test stand which was located three meters from the test antenna on an FCC listed test site. The frequency range scanned was from the lowest frequency generated by the test sample to its tenth harmonic. In order to maximize the level of each emission observed from the test sample, the broadband antenna was tuned to the frequency of each emission and the test sample was rotated 360 degrees. To further maximize the each emission observed, the test antenna was both horizontally and vertically polarized, and then was raised and lowered from one to four meters from the ground plane. The limits for all of the spurious emissions was calculated utilizing the measured output power and the following equation:

Limit 
$$\langle dB\mu V/M \rangle = 20 \log \left[ \{ (49.2 \text{ x P}_T)^{1/2}/3 \} \text{ x } 10^6 \right] - (43 + 10 \log P_T)$$

The above procedure was performed at the lower and upper frequencies of the device's operating frequency range.

Setup of the test is shown below:



### B. Test Results:

The results for the above test are shown on the following two (2) data sheets.



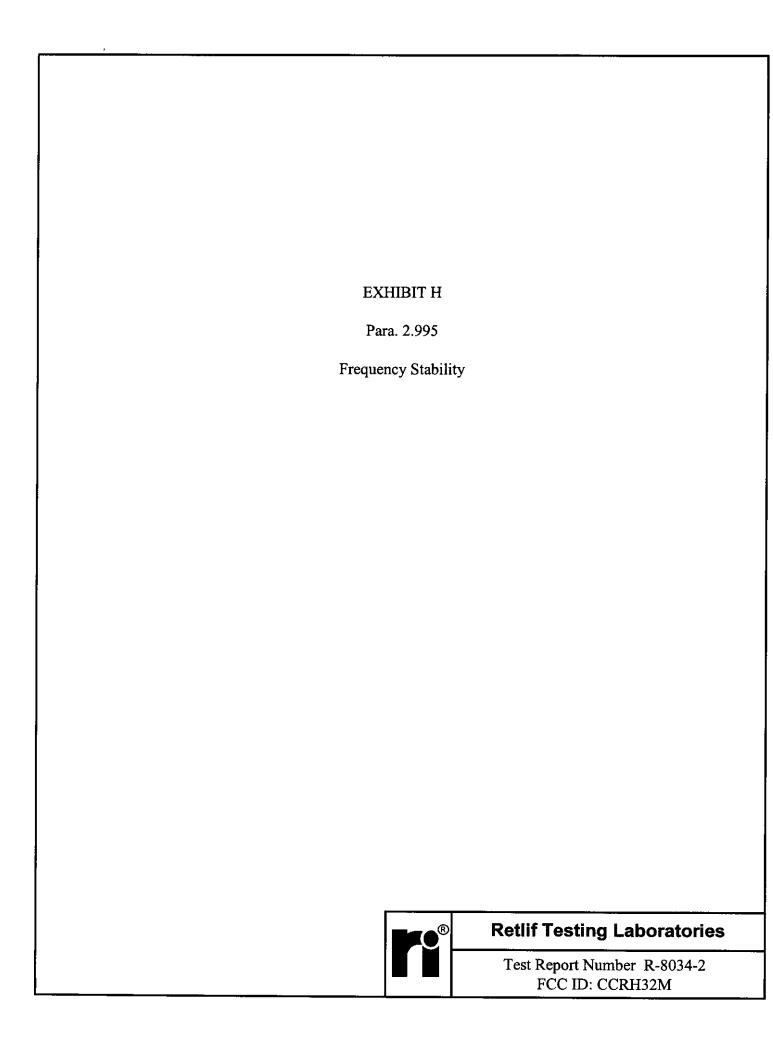
# **Retlif Testing Laboratories**

Test Metho	ad.	Carrier	- Fastasta - B					
Customer:			ıs Emissions, P	aragraph 2.99	3			···
			n Technologies			Job No.	R-8034-2	
Test Samp		<del></del>	s Handheld Tr	ansmitter		FCC ID	CCRH32M	
Model No.:		H32M				Serial No.	N/A	
Operating		EUICO	ntinuously trans	smitting 801.12	25 Mhz signa	ł		<u>.</u>
Test Speci		FCC Pa	ort 74 Experime	ntal Radio, Au	xilary, Specia	al Broadcast an	d other Program	
Distribution								
Technician		Dennis				Date:	April 27,1999	
Notes:	Test Dist	ance: 3 M	Meters (Lim	it= <u>/49.2 x O</u>	utput Power -	- (43+10 log Ou	ıtput Power)	
	Detector:	: Peak		√ [	)			
	Ante	enna	EUT	Meter	Correction	Corrected	Converted	
Test Freq.	Pol./F	leight	Orientation	Reading	Factor	Reading	Reading	Limit
Mhz	(V/H) / E	Degrees	Degrees	dBuv	dB	dBuv/m	uv/m	uv/m
30.0								16596
	ļ							1
<u> </u>				_				
V	<u> </u>							
1602.25	V-1	1.0	000	50.7	-4.1	46.6	213.8	
<u> </u>					<u> </u>			
<u> </u>	-			<del>-</del>				
i -	····		<del>-</del>	<del>-</del>			<u> </u>	
<u> </u>	<u> </u>							
						<del></del>		<u> </u>
<del>-                                    </del>			<del></del>			<del>-</del>		<u> </u>
V	<u> </u>	~ <del>-</del>		*				
9000.0			`			<del>-</del>	-	16596
	<u> </u>		· -	· ·			<del> </del>	10030
				, <u></u>		-	<del>-</del>	
-		71	· ·			<del></del>		
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-	<del></del>	_				-		
	···		-					. <u></u>
						<del> </del>		
	The EUT	was scar	nned from 30 M	hz to 9 Ghz		<u> </u>		
			served from the		xceed the so	ecified limits		
	All emiss	sions not	observed were	more than 20d	B below the	specified limit		
					· ·			



				Paragraph 2.99				
Customer:		<del></del>	Technologie			Job No.	R-8034-2	
Test Sampl	le:	<del></del>	s Handheld 1	ransmitter		FCC ID	CCRH32M	
Model No.:		H32M				Serial No.	N/A	
Operating I				nsmitting 805.0			•	
Test Specif		FCC Pa	rt 74 Experim	ental Radio, Au	xilary, Special I	Broadcast an	d other Program	
Distributiona	al Service	S	0					
<u> Technician</u>		Dennis (	Cortes U			Date:	April 27,1999	
Notes:	Test Dist	ance: 3 N	∕leters Li	mit≃ <u>/49.2 x O</u>	utput Power - (	43+10 log Ot	itput Power)	
	Detector	Peak		√ [	)			
	Ante	nna	EUT	Meter	Correction	Corrected	Converted	Ĭ
Test Freq.		leight	Orientation	Reading	Factor	Reading	Reading	Limit
Mhz	(V/H) / [	Degrees	Degrees	dBuv	dB	dBuv/m	uv/m	uv/m
30.0								16590
			<u>.                                    </u>					1 1
								İ
V								<u> </u>
1610.0	V-1	1.1	203	50.0	-4.1	45.9	197.2	
<u>.</u>	•			<del> </del>				
				-	<del></del> .			
							-	
<u> </u>	784			_				
		1					<u> </u>	<u>                                   </u>
<u>'</u>			· • • • • • • • • • • • • • • • • • • •					
V			*				<u> </u>	V
9000.0								16596
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				<del> </del>		<del>-</del>		
	<del></del>			+				
		+		-	·		-	
	<del></del>		***					
	The EUT	was scar	nned from 30	Mhz to 9 Ghz	I			
	The emis	sions obs	served from th	ne EUT do not e	exceed the spec	ified limits.	<del></del> .	
	All emis	sions not	observed wer	e more than 20	dB below the s	ecified limit		



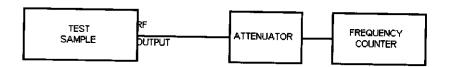


# FREQUENCY STABILITY MEASUREMENTS (PARA 2.995)

### A. Measurement Procedure (Frequency vs. Voltage):

The RF output of the test sample was coupled to a frequency counter through external attenuation. Using a Variable power supply and voltmeter, the input voltage was varied. Measurements were taken with the device being supplied with 85, 100, 115 percent and at the battery endpoint of its rated input voltage and set to transmit the unmodulated carrier frequency.

Setup of the test is shown below:



### B. Test Results:

The results for the above test are shown of the following single data sheet.



# **Retlif Testing Laboratories**

	od:	FREQU	JENCY STABIL	ITY (INPUT P	OWER 85%	TO 115%)	Para 2.995	
Customer:			n Technologies			Job No	. R-8034	-2
Test Samp		_	s Handheld Tra	nsmitter		FCC IE	CCRH3	2M
Model No.:		H32M		·		Serial No	. N/A	
Operating	Mode:	EUT co	ntinuously trans	mitting 803 MI	nz signal			
Test Speci	fication:	FCC pa	ırt 74; Experime tional serviç <del>e</del> s	ental Radio, Au paragraph	ıxiliary, Spec : 74.861(e)	ial broadcast	and other	program
Technician	:	Dennis	Cortes 2			Date:	April 18	1999
Notes:	*= At this	s point, th	set at maximum ne low battery v	oltage LED car	me on.			
	Tran Frequ	ency	Input Voltage	Input Voltage	Lowei Limit	I '	Meter eading	Upper Limit
<del> </del>	Mi	12	%	VDC	Mhz		Mhz	Mhz
	803	3.0	85	7.65	802.959	85 80	3.0005	803.04015
	803	3.0	100	9.0	802.959	85 80	3.0004	803.04015
	803	3.0	115	10.35	802.959	85 80	3.0005	803.04015
	803	.0	*Low Batt	6.4	802.959	85 80	3.0005	803.04015
			,					
		,						
							-	
<del></del> +			<u>.</u>				<u> </u>	-

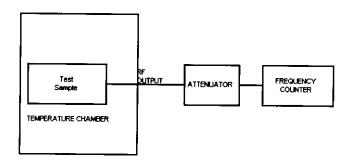


### FREQUENCY STABILITY MEASUREMENTS (PARA 2.995)

### A. Measurement Procedure (Frequency vs. Temperature)

The RF output of the test sample was coupled to a frequency counter through external attenuators. With the counter connected, the test sample was activated and placed into a temperature chamber. The temperature was then programmed to start at -30 degrees Celsius and reach +50 degrees Celsius in 10 degrees increments. Each increment was held for 30 minutes in order to let the test sample stabilize at that temperature.

Setup of the test is shown below:



### B. Test Results:

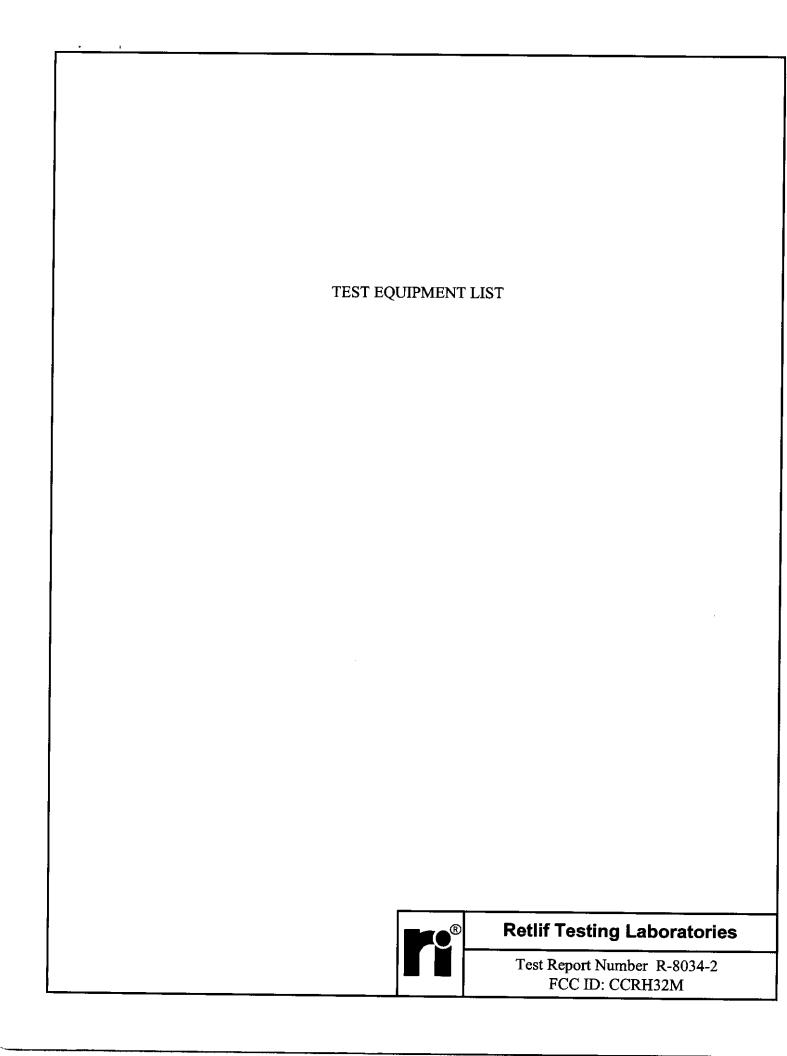
The results for the above test are shown of the following single data sheet.



# **Retlif Testing Laboratories**

Test Method:	FREQUENCY STA	rees C to +50 o	degrees C) Pa	ra 2.985		
Customer:	Samson Technolog			Job No. R-8034-2		
Test Sample:	Wireless Handheld	Transmitter		FCC ID:	CCRH32M	
Model No.:	H32M	<u>,                                      </u>	-	Serial No.	N/A	
Operating Mode:	EUT continuously t	ransmitting a 803	Mhz signal			
Test Specification:	FCC Part 74; Expe	rimental radio, au	ixiliary, special	broadcast and	other program	
Technician:	Mark Stasiewicz			Date:	May 3,1999	
Notes: Level ad	ljustment set at maxi	mum.				
	nsmit Jency	Temp.	Lower Limit	Meter Reading	Upper Limit	
M	hz	Degrees C	Mhz	Mhz	Mhz	
80	3.0	-30	802.95985	802,9902	803.04015	
80	3.0	-20	802.95985	803.0004	803.04015	
80	3.0	-10	802.95985	802.9914	803.04015	
80	3.0	0	802.95985	803.0163	803.04015	
80	3.0	10	802.95985	803.0009	803.04015	
803	3.0	20	802.95985	802.9995	803.04015	
803	3.0	Room temp	802.95985	802.9997	803.04015	
803	3.0	30	802.95985	802.9998	803.04015	
803	3.0	40	802.95985	803.0001	803.04015	
803	3.0	50	802.95985	803.0009	803.04015	
	3					
		1	<u> </u>			





# EQUIPMENT LIST

### FCC Part 74

EN	Type	Manufacturer	Frequency Range	Model No.	Cal Date	<b>Due Date</b>
067	Open Area Test Site	Retlif	3 Meter	RNY	8/30/97	8/30/99
128C	Double Ridge Guide	Eaton Corporation	1 GHz - 18 GHz	96001	10/6/98	10/6/99
133	Broadband Pre-Amplifier	Electro-Metrics	10 kHz - 1 GHz, 26dB	BPA-1000	6/22/98	6/22/99
141	Spectrum Analyzer	Hewlett Packard	100 Hz - 40 GHz	8566B	3/16/99	9/16/99
141A	Graphics Plotter	Hewlett Packard	N/A	7470A	3/5/99	3/5/00
141B	Quasi-Peak Adaptor	Hewlett Packard	100 Hz - 1 GHz	85650A	3/16/99	9/16/99
159	Frequency Counter	Leader	10 Hz - 1 GHz	LDC-825	9/18/98	9/18/99
206B	6.0 dB Attenuator	Texscan	0 - 1.0 GHz	FP-50 - 6 dB	6/22/98	6/22/99
302	Temperature Chamber	Tenney Engineering	N/A	TJR	11/23/98	11/23/99
379D	H.P. Filter	Microlab/FXR	N/A	2GHz H.P Filter	6/17/98	6/17/99
413	Temp/Altitude Chamber	Thermotron	0 - 100,000 ft	F-4-CHA-1-1	1/18/99	1/18/00
419	Modulation Meter	Boonton Electronics	.01 - 1.2 GHz	82AD	4/30/99	4/30/00
451C	Tuned Dipole Antenna	Empire Devices	400 - 1000 MHz	DM-105-T3	8/1/97	8/1/00
488	HP Test Oscilllator	Hewlett Packard	10 Hz - 10 MHz	654A	4/30/99	4/30/00
523	Biconilog	Electro-Mechanics	26 - 2000 MHz	3142B	10/22/98	4/22/00
534	DC Power Supply	Lambda	N/A	DV-1827-2	5/11/98	5/11/99
543	Preamplifier	Hewlett Packard	1.0 GHz - 26.5 GHz	8449B	9/3/98	9/3/99
544	EMC Analyzer	Hewlett Packard	9.0 kHz - 1.8 GHz	8591EM	8/6/98	8/6/99



# **Retlif Testing Laboratories**