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C.M. Groven

TMC SPECIFICATION NO. S-55

71TLE: Test Procedure for SYM-1089

JOB

APPROVED 705

EQUIPMENT.

Signal Generator

Standard Generator

Model 82

Measurements Corpora-

tion.

Voltmeter

VTVM Voltmeter

Heathkit.

Pad

20 db Attenuation Pad.

TEST PROCEDURE.

A. Sensitivity for 10 db signal to noise ratio.

- 1. Connect the equipment as shown in Figure 1.
- 2. Set the signal generator to the first test frequency on the test chart. Modulate this test signal at 30% with a 1000 cps tone.
- 3. Set the signal generator output at 3 to 4 microvolts.
- 4. Set the MSR bandspread control to its center position. The manual/xtal switch in the manual position, and the sideband switch in the USB position.
- 5. Tune the GPR-90RX to the signal from the signal generator.
- 6. Detune the frequency of the signal generator.
- 7. Observe the reading of the voltmeter placed across the 600 ohms output of the MSR(terminals 5 and 6).
- 8. Retune the signal generator to its original frequency. Increase the output of the signal generator until a 10 db increased of voltage is observed on the voltmeter.
- 9. This amount of signal required for a 10 db signal to noise ratio can be read directly from the signal generator.

DATE 3/6/61 SH 2 OF 4		TMC	SPECIFICATION	NO.
COMPILED BY C.M.Groven		 	 	
C.M.Groven	TITLE:	Test Proc	edure for SVM_1089	

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10. Enter this reading on the test data table.

B. MSR Operation

1. Set the signal generator to the first frequency of the test data table.

Modulate this signal at 30 % with a 1000 cps tone.

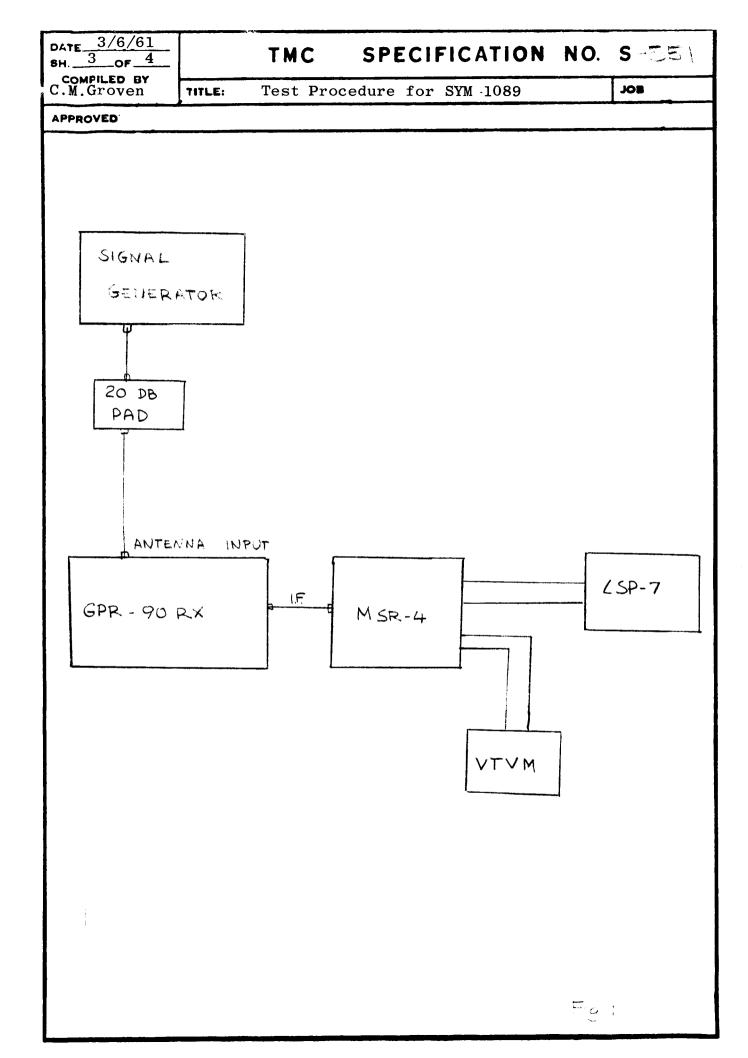
S-551

JOB

- 2. Set the signal generator output at about 3 microvolts.
- 3. Set the MSR to its upper sideband position, manual/xtal switch in manual position, set its bandspread control to its center position.
- 4. Tune the GPR-90RX to the signal generator output frequency.
- 5. Record normal operation of the MSR(USB position). An audio tone will be heard as the bandspread tuning control is turned from left to right.
- 6. Repeat for the lower sideband.

C. LSP-7 Operation

1. Record normal operation of the loudspeaker, A nice and clean sound should be heard from the loudspeaker.



DATE 3/6/61 SH 4 OF 4 COMPILED BY C.M.Groven		TMC	SPECIFICATION	NO.	S -55\
	TITLE:	Test Proc	edure for SYM-1089		JOB

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TEST DATA

R.F. In MCS	Required uv For 10 db S+N/N *	MSR-4 Operation USB LS	
2.5			;
5.0			
7.5			
10.0			
15.0			
20.0			
25.0			
30.0			

^{*} To be less than 1 microvolt for stated signal to noise ratio.