

## 67. Summary of Test Data

Personnel may find it convenient to arrange the checklist in a manner similar to that shown below.

Test	Test data	Performance standard
1. TRANSMITTER POWER OUTPUT		
a. 30.00 mc	-	2 watts minimum
b. 42.00 mc	-	2 watts minimum
c. 52.95 mc	-	2 watts minimum
d. 53.00 mc	-	1.5 watts minimum
e. 65.00 mc	-	1.5 watts minimum
f. 75.95 mc	-	1.5 watts minimum
2. TONE OSCILLATOR FREQUENCY AND TRANSMITTER MODULATION		
a/ Frequency deviation at 41.00 mc	-	3.0 kc $\pm$ 0.5
b. Modulating frequency at 41.00 mc	-	150 cps $\pm$ 1.5
3. SYSTEM DISTORTION		
Distortion at 41.00 mc	-	10% max
4. FREQUENCY ACCURACY		
a. 75.00 mc	-	75.00 mc $\pm$ 3.5 kc
b. 75.05 mc	-	75.05 mc $\pm$ 3.5 kc
c. 75.10-75.90 mc (in 100-kc increments)	-	75.10-75.90 mc $\pm$ 3.5 kc
d. 75.95 mc	-	75.95 mc $\pm$ 3.5 kc
e. 52.00 mc	-	52.00 mc $\pm$ 3.5 kc
5. MAXIMUM SIGNAL PLUS NOISE-TO-NOISE RATIO		
At 41.00 mc	-	Not less than 40 db greater than indication in test procedure step 1b (para 60c).
6. RECEIVER AUDIO OUTPUT POWER		
At 41.00 mc	-	Not less than 2 volts on ME-30A/U.
7. RECEIVER SENSITIVITY		
a. 30.00 mc	-	10 db less in DISTORTION position than SET LEVEL position on TS-723A/U.
b. 41.00 mc	-	Same as above.
c. 52.00 mc	-	Same as above.
d. 53.00 mc	-	Same as above.
e. 65.00 mc	-	Same as above.
f. 75.95 mc	-	Same as above.

Test	Test data	Performance standard
8. RECEIVER CATCHING RANGE		
a. 31.50 mc	-	300 kc minimum deviation above and below 31.50 mc.
b. 51.50 mc	-	300 kc minimum deviation above and below 31.50 mc.
9. SQUELCH SENSITIVITY		
a. Function switch in SQUELCH (30.00 mc).	-	Squelch relay energizes when specified audio level is present.
b. Function switch in SQUELCH (41.00 mc).	-	Same as above.
c. Function switch in SQUELCH (52.00 mc).	-	Same as above.
d. Function switch in SQUELCH (53.00 mc).	-	Same as above.
e. Function switch in SQUELCH (65.00 mc.)	-	Same as above.
f. Function switch in SQUELCH (75.00 mc).	-	Same as above.
10. RECEIVER DISTORTION		
a. At 41.00 mc	-	5% max
b. At 2-volt output	-	10% max
11. TRANSMITTER DEVIATION.		
(ME-30A/U range selector switch at .003 VOLTS, -50DB)		
a. 30.00 mc	-	10 kc $\pm$ 2
b. 52.00 mc	-	10 kc $\pm$ 2
c. 54.00 mc	-	10 kc $\pm$ 2
d. 75.00 mc	-	10 kc $\pm$ 2
12. TRANSMITTER DEVIATION.		
(ME-30A/U range selector switch at .01 VOLTS, -40DB)		
a. 30.00 mc	-	Less than 1.414 of 11a.
b. 52.00 mc	-	Less than 1.414 of 11b.
c. 54.00 mc	-	Less than 1.414 of 11c.
d. 75.00 mc	-	Less than 1.414 of 11d.