

# Specification and debugging Method for Portable Radio

## 1 Debugging tools

1) Integrated tester 8921; 2) PC and installed CPS software; 3) AEROFLEX 3920; 4) Spectrum Analyzer FSU。

## 2 Debugging Method & Requirement For TX section

Item	Instrument Configuration	Measuring		Methods and tools		Specification	Remarks
		Test Device	Test Point	Assistant tool	Steps		
1. Frequency stability	Set 8921 to TX mode	8921	Connect Portable Antenna port to RF IN/OUT port of 8921	PC	1) Open CPS software and enter testing mode. 2) Double click Frequency stability; 3) Adjust the data value of software & Observe the Frequency via 8921; 4) Adjust till Frequency reach <b>174 MHz±1kHz</b> ; 5) Click OK to save data.	<b>≤2.5ppm</b>	Within ±1kHz while in testing mode
2. TX power	Set 8921 to TX mode	8921			1) Open CPS software and enter testing mode. 2) Double click TX High Power, Click F1 to F8 separately; 3) Adjust the data value of software & Observe the TX power via 8921; 4) Observe the Current flow; 5) Click <b>OK</b> to save data.	<b>Target Power: 37.1dBm</b>	Power requirement only apply to Manufacturing Process