

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 480MHz ± 1kHz ; 5) Click OK to save data. | ≤2.5ppm | 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; Make the power reach 2W ; 4) Observe the Current flow; 5) Click OK to save data. | Power: 2W (H); 1W (low) | Power requirement only apply to Manufacturing Process |