

# **Motorola**

## **MOSCAD M UHF-L**

### **FCC CFR47 Part 90**

### **Report of Measurements**

Revision 1.0

December 3, 2001

| Approvals  |                                     |                 |
|------------|-------------------------------------|-----------------|
| Written By | <div>Tammy Remple</div>             | <div>Date</div> |
| Checked by | <div>Robert Stirling, P. Eng.</div> | <div>Date</div> |

Protocol Labs, Abbotsford B.C., Canada  
FCC Registration Number 96437  
Industry Canada Registration Number IC3384

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# CE Mark EMC Directive Compliance Test Report FCC CFR47 PART 90 Report of Measurements

## Testing Details

TESTED BY: Rob Stirling

TEST CONDITIONS: Temperature and Humidity: 18 C, 35%

TEST VOLTAGE: 12 Vdc

## Test Facilities

Protocol Labs  
28945 McTavish Rd.  
Abbotsford B.C., Canada, V4X 2E7

FCC Registration Number 96437  
Industry Canada Registration Number IC3384

## Test Equipment List:

| Device             | Model Number            | Serial No. | Last Cal. | Next Cal   |
|--------------------|-------------------------|------------|-----------|------------|
| Antenna            | EMCO 3141 Bilog Antenna | 1127       | 09/13/01  | 09/13/02   |
| Horn               | EMCO 31405 Horn Antenna | 2024       | 09/10/01  | 09/10/02   |
| Amp                | Hewlett Packard 8349A   | 2512A00824 | 09/13/01  | 09/13/02   |
| LISN               | Solar 8012-50-R-24-BNC  | 863092     | 02/20/01  | 02/20/02   |
| Spectrum Analyzer  | Hewlett Packard 8566B   | 2241A02102 | 12/16/00  | 12/16/1801 |
| RF-Preselector     | Hewlett Packard 85685A  | 3107A01222 | 12/16/00  | 12/16/01   |
| Quasi-Peak Adapter | Hewlett Packard 85650A  | 2043A00240 | 12/16/00  | 12/16/01   |
| Tower              | Rhientech Labs          | Custom     |           |            |
| Turntable          | Protocol                | Custom     |           |            |

## Equipment Under Test:

THE TEST SYSTEM:

EUT

Manufacturer Motorola  
Model Number MOSCAD M UHF L  
Serial Number Eng 002

Auxiliary Equipment Host Controller/PC

Manufacturer Compaq Presario  
Model Number 1255  
Serial Number 1V93CFK6226S

RADIATED SETUP:

The equipment was set up in a 3 meter open field test site. Spurious Emissions in both horizontal and vertical polarizations were measured while rotating the EUT on a turn table to maximize the emissions signal strength

Motorola Moscad M UHF L  
AZ489FT4839

and the results recorded on the attached tablkes and plots. Refer to Photographs in Appendix A

**CABLING:**

| Cable          | Connector      | Load/Termination? |
|----------------|----------------|-------------------|
| DC Power Input | 2-wire         | Yes               |
| Ethernet Cable | To Host System | Yes               |

**TEST FIRMWARE:**

Tools Kit

**TEST DATA:**

Refer to Appendix B for Individual Graphs and Test Results at High and Low Transmitting Bands.

**CONCLUSION:**

The EUT complies with the requirements of FCC Part 90