


DO-160F TEST REPORT

for:
Ventilator

Model:
HT50

Prepared for

NEWPORT MEDICAL INSTRUMENTS
1620 SUNFLOWER AVE.
COSTA MESA, CALIFORNIA 92626

Prepared by: 

EUGENE ADAMS

Approved by: 

SCOTT McCUTCHAN

COMPATIBLE ELECTRONICS, INC.
19121 EL TORO RD.
SILVERADO, CALIFORNIA 92676
(949) 589-0700

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	REPORT BODY	APPENDICES A	TOTAL PAGES
Pages	13	20	33

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TABLE OF CONTENTS

Section / Title	PAGE
GENERAL REPORT SUMMARY	4
SUMMARY OF TEST RESULTS	5
1. INTRODUCTION	6
2. PURPOSE	6
3. EQUIPMENT CATEGORIES	6
4. APPLICABLE DOCUMENTS	7
5. ADMINISTRATIVE DATA	8
5.1 Location of Testing	8
5.2 Cognizant Personnel	8
5.3 Date Test Sample was Received	8
5.4 Disposition of the Test Sample	8
5.5 Abbreviations and Acronyms	8
6. LIST OF TEST EQUIPMENT	9
7. TEST SITE DESCRIPTION	10
7.1 Test Facility Description	10
7.2 EUT Test Configuration	10
7.3 EUT Mounting, Bonding and Grounding	10
7.4 Power Characteristics	10
7.5 Operation of the EUT	10
8. GENERAL TEST PROCEDURES	11
8.1 Emissions of Radio Frequency Energy	11
9. CONCLUSION	13

8.1.2 Radiated RF Emission

The EUT was configured as described in section 7.2 of this test report. The EUT was set up to operate as specified in section 7.5 of this test report. The photographs of the test setup are shown with the data sheets in Appendix A.

The receiving antenna was placed one meter away from the EUT facing the area of maximum emission. The antennas used and their applicable frequency ranges are listed below.

Antenna	Frequency Range
Biconical Antenna	100 MHz to 300 MHz
Log Periodic Antenna	300 MHz to 1 GHz
Horn Antenna	1 GHz to 6 GHz

The radiated emissions were measured using the broadband antennas listed above and the HP spectrum analyzer under program control. The Compatible Electronics Shield Room Emissions EMI measurement software (Version SR21) was used to collect the data. The EUT was tested to measure if the RF radiated emissions were within the Category M levels specified in the RTCA standard DO-160F. The data is shown with respect to the actual specification limit, i.e., it has been corrected for antenna factors, amplifier gain and cable loss factors.

Test Results:

The summary of the test is listed below.

Frequency Range (MHz)	Antenna	Polarization	Result
100 to 300	Biconical	Horizontal	PASS
100 to 300	Biconical	Vertical	PASS
300 to 1000	Log Periodic	Horizontal	PASS
300 to 1000	Log Periodic	Vertical	PASS
1000 to 6000	Horn	Horizontal	PASS
1000 to 6000	Horn	Vertical	PASS

The EUT meets RTCA DO-160F, Section 21.4, Category M requirements.

9. CONCLUSION

The Ventilator Model: HT50 was tested as specified in the RTCA document DO-160F "Environmental Conditions and Test Procedures for Airborne Equipment" and meets the applicable requirements specified as specified in Section 21 of RTCA DO-160F