

AMENDMENT TEST REPORT

Amendment to Original Report Numbers: 30332141 and 30332142

Date of Original Reports: October 14, 2002

Amendment Number: 30332143

Project Number: 3033214

Report Date: November 25, 2002

Date of Test: November 11, 2002

Testing performed on the

Model: AirMAX 580/5800

FCC ID: QGQ-AM581

to

FCC Part 15.207 Line Conducted Emissions

for

Malibu Networks

Test Performed by:

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TABLE OF CONTENTS

1.0	Introduction.....	3
2.0	Summary of Tests	3
2.1	Test Methodology	3
2.2	Test Facility	3
3.0	System Test Configuration.....	4
3.1	System Support Equipment	4
3.2	Block Diagram of Test Setup.....	5
4.0	Measurement Results.....	6
4.1	AC Line Conducted Emission	6
5.0	List of test Equipment	9
6.0	Document History	10

1.0 Introduction

This is an amendment to report numbers 30332141 and 30332142 issued by ITS, dated October 14, 2002. The original line conducted emission test was performed with a ferrite installed on the DC power cable from the AC Adapter. The AC adapter used in the original test has been changed. A new AC adapter was tested and passed without a ferrite installed on the DC power cable. This amendment includes test data for line conducted emissions performed on the new AC adapter. The radiated emissions from the system with the new AC adapter was checked and the result was not worse than the original test result.

2.0 Summary of Tests

MODEL: AirMAX 580/5800
FCC ID: QGQ-AM581

TEST	REFERENCE	RESULTS
AC Line-conducted Emission	15.207	Complies

2.1 Test Methodology

Line-conducted emissions measurements were performed according to the procedures in ANSI C63.4 (1992).

2.2 Test Facility

The conducted measurement facility used to collect the radiated data is site 1. This test facility and site measurement data have been fully placed on file with the FCC and NVLAP accredited.

3.0 System Test Configuration

3.1 System Support Equipment

Table 1.3-1 contains the details of the support equipment associated with the Equipment Under Test.

Table 1.3-1: System Support Equipment

Item #	Description	Model No.	Serial No.
1	IBM Laptop	T21	75-0FX2F

Cables associated with EUT

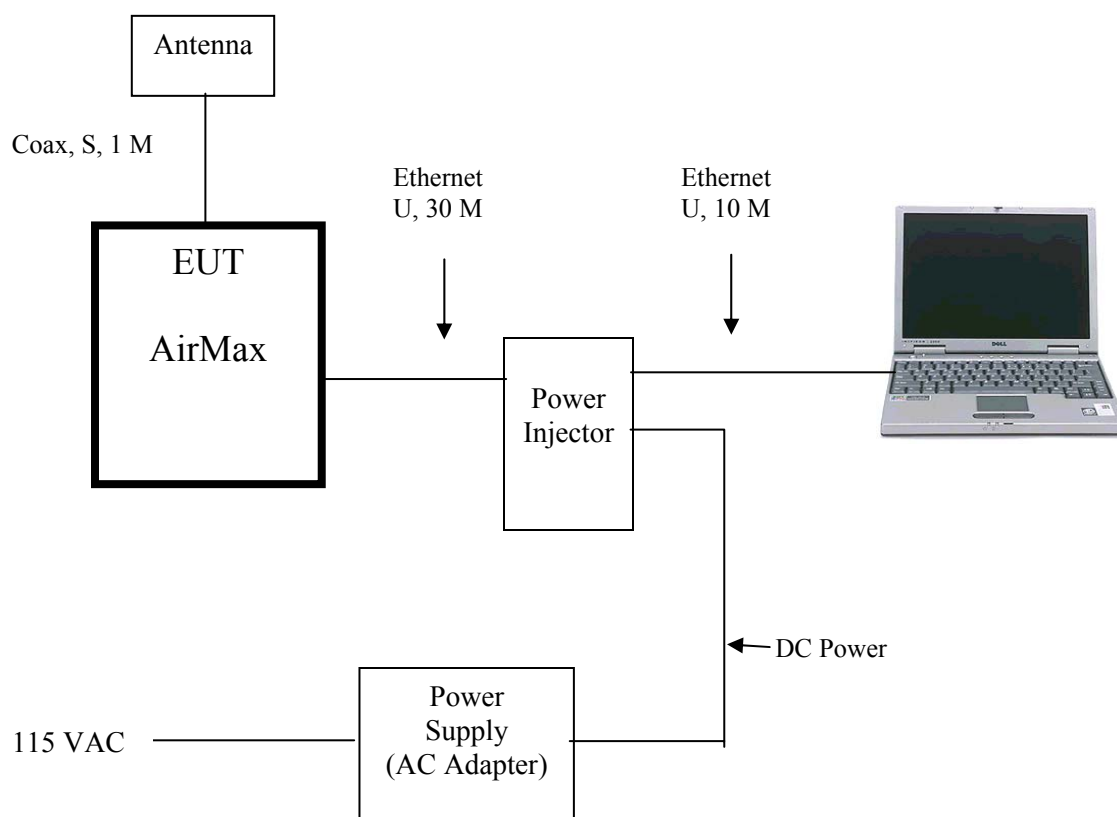
Table 1.3-2 contains the details of the cables associated with the EUT.

Table 1.3-2: Interconnecting cables associated with the EUT

Cables					
Description	Length	Shielding	Ferrites	Connection	
				From	To
Coaxial cable	1 meter	Yes	No	AirMax	Antenna
Ethernet cable	30 meters	No	No	AirMax	Power Injector
Ethernet cable	10 meters	No	No	Power Injector	Computer
DC power cable	1.5 meter	No	No	Power Injector	Power Adaptor
AC power cable	1.5 meter	No	No	Power Adaptor	AC Line

3.2 Block Diagram of Test Setup

The diagram shown below details the interconnection of the EUT and support equipment. For specific layout, refer to the test configuration photograph in the relevant section of this report.



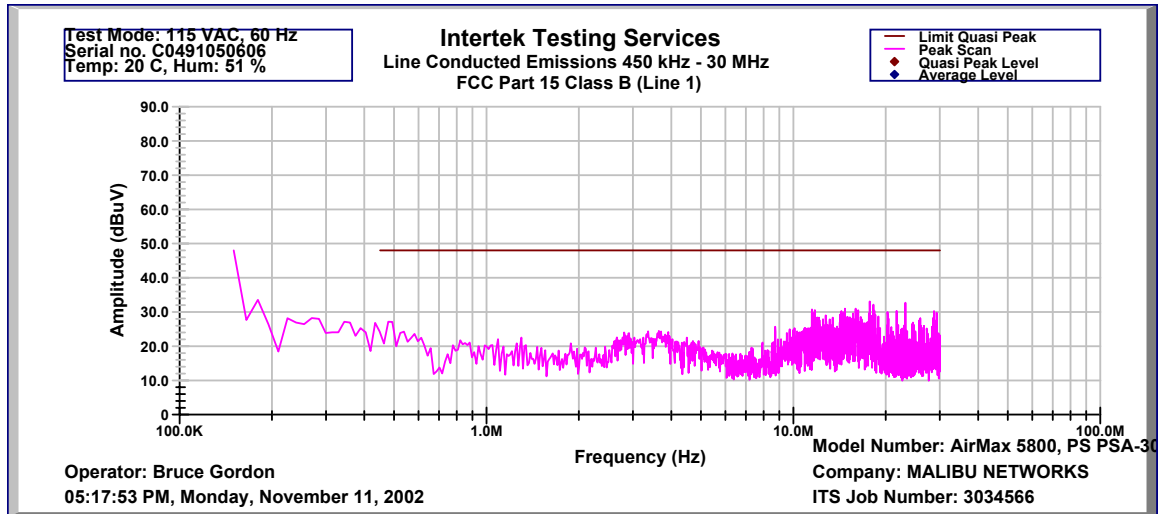
S = Shielded	F = With Ferrite
U = Unshielded	M = Length in Meter

4.0 Measurement Results

4.1 AC Line Conducted Emission FCC 15.207

AC line conducted emission test was performed according the ANSI C63.4 standard. The EUT was connected to a power adapter which was connected to AC Line through the LISNs.

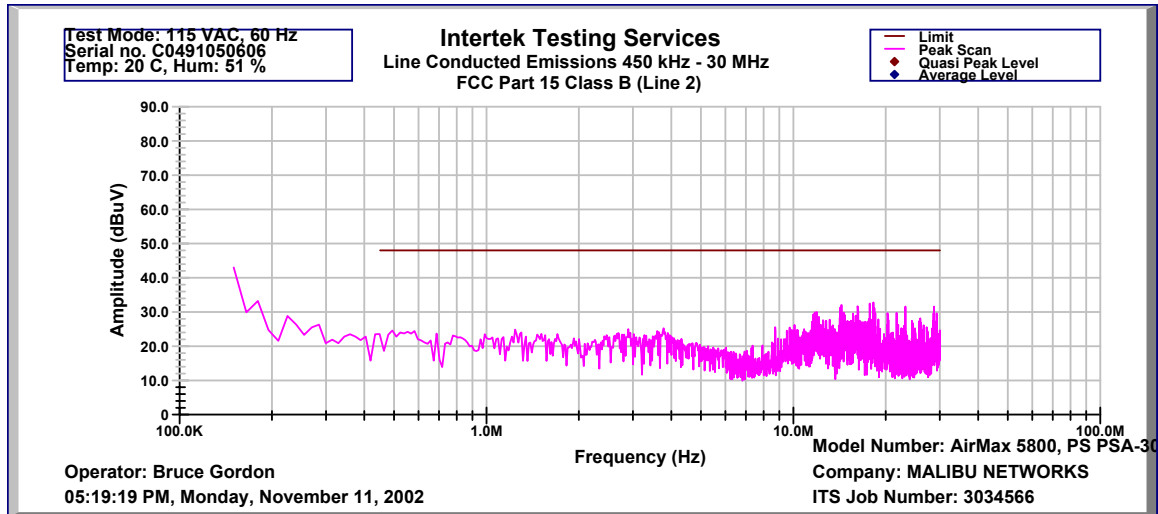
For the test result, see attached plots.
EUT passed by 14.9 dB.



Intertek Testing Services
Line Conducted Emissions 450 kHz - 30 MHz
FCC Part 15 Class B (Line 1)
Operator: Bruce Gordon Model Number: AirMax 5800, PS PSA-30U-240
ITS Job Number: 3034566
Mon Nov 25 10:40:02 2002
Company: MALIBU NETWORKS

Frequency Hz	Pk Level (dBUV)	Limit (dBUV)	Pk Margin (dBUV)
1.15E+07	30.7	48.0	-17.3
1.16E+07	29.7	48.0	-18.3
1.17E+07	30.5	48.0	-17.5
1.43E+07	29.7	48.0	-18.3
1.43E+07	30.2	48.0	-17.8
1.46E+07	29.9	48.0	-18.1
1.47E+07	30.9	48.0	-17.1
1.59E+07	30.9	48.0	-17.1
1.62E+07	30.3	48.0	-17.7
1.63E+07	30.5	48.0	-17.5
1.76E+07	29.6	48.0	-18.4
1.77E+07	33.1	48.0	-14.9
1.82E+07	32.1	48.0	-15.9
1.83E+07	30.0	48.0	-18.0
1.83E+07	30.4	48.0	-17.6
2.03E+07	30.0	48.0	-18.0
2.17E+07	30.3	48.0	-17.7
2.31E+07	32.7	48.0	-15.3
2.87E+07	30.2	48.0	-17.8
2.93E+07	29.8	48.0	-18.2

Test Mode: 115 VAC, 60 Hz
Serial no. C0491050606
Temp: 20 C, Hum: 51 %



Intertek Testing Services
Line Conducted Emissions 450 kHz - 30 MHz
FCC Part 15 Class B (Line 2)
Operator: Bruce Gordon Model Number: AirMax 5800, PS PSA-30U-240
ITS Job Number: 3034566
Mon Nov 25 10:41:03 2002
Company: MALIBU NETWORKS

Frequency Hz	Pk Level (dBuV)	Limit (dBuV)	Pk Margin (dBuV)
1.17E+07	29.9	48.0	-18.1
1.19E+07	30.0	48.0	-18.0
1.42E+07	31.3	48.0	-16.7
1.43E+07	30.4	48.0	-17.6
1.43E+07	32.1	48.0	-15.9
1.46E+07	29.8	48.0	-18.2
1.56E+07	29.5	48.0	-18.5
1.62E+07	31.7	48.0	-16.3
1.62E+07	30.2	48.0	-17.8
1.77E+07	32.4	48.0	-15.6
1.82E+07	32.8	48.0	-15.2
1.83E+07	30.2	48.0	-17.8
1.83E+07	31.1	48.0	-16.9
1.85E+07	29.6	48.0	-18.4
2.03E+07	29.7	48.0	-18.3
2.17E+07	29.7	48.0	-18.3
2.31E+07	31.6	48.0	-16.4
2.86E+07	29.7	48.0	-18.3
2.87E+07	31.6	48.0	-16.4
2.93E+07	29.6	48	-18.4

Test Mode: 115 VAC, 60 Hz
Serial no. C0491050606
Temp: 20 C, Hum: 51 %

5.0 List of test Equipment

Equipment	Manufacturer	Model/Type	Serial #	Cal Int	Cal Due
RF Filter Section	Hewlett Packard	85460A	3448A00267	12	7/16/03
EMI Receiver	Hewlett Packard	8546A	3710A00373	12	7/16/03
LISN	FCC	FCC-LISN-50-50-M-H	2011	12	1/02/03

6.0 Document History

Revision/ Job Number	Writer Initials	Date	Change
1.0 / 30332143	SS	November 25, 2002	Original document