ITS Intertek Testing Services

FCC Part 74 Type Acceptance Class II Permissive Change Application

for

Nady Systems Inc.

on the
Bodypack Transmitter
FCC ID: BEK9E5743T
Model No.: LT-5

Date of Test: August 4, 1998

LTO# J98022201A

Date of Report: August 19, 1998

Total No. of Pages Contained in this Report: 2

Intertek Testing Services NA Inc.
1365 Adams Court, Menlo Park, CA 94025
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1.0 Introduction

This is an application for Class II Permissive Change of a Broadcast Transmitter Held to Face (Wireless Microphone), FCC ID: BEK9E4256T. The unit operated under FCC Rule Part 74.861 and granted on March 30, 1998.

The purpose of the change is to have the unit operates in frequency range of 794.901 MHz to 804.900 MHz. Since we tested only the middle channel in 800.2 MHz to 802.3 MHz frequency, the low channel in 794.901 MHz, high channel in 804.900 MHz, and radiated emission was also tested and now included.

No changes were made in schematics, components, and construction of the EUT and therefore is identical to the previously certified equipment.

2.0 Test Summary

FCC RULE	DESCRIPTION OF TEST	RESULT	PAGE
74.861(e)(6)(iii); 2.993	Radiated Harmonic Emissions	Pass	2

Xi-Ming Yang
Test Engineer

8-27-98
Date

3.0 Test Results

3.1 Field Strength, Radiated Harmonic Emissions, FCC 74.861(e)(6)(iii) & 2.993

Test Procedure

The EUT was placed on a wooden turntable located on a 3 m radiated open area test site. Radiated emissions at the transmitter harmonics were measurured. The search antenna was raised and lowered, and maximum field strength level obtained was recorded.

The radiated harmonic attenuation was calculated from the following expression:

E(fund.) At 3m = 103.5 dBuV/m
Harmonic Attenuation = E(fund)dB - E(Harmonic)dB

Test Equipment

HP 8566 Spectrum Analyzer
EMCO 3143 Log Antenna, 20 - 1000 MHz
EMCO 3115 Double Ridged Horn, 1 - 18 GHz

Test Results

See attached page.

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Radiated Emissions Test Data

Company: Nady
EUT: LT-5 Transmitter
Project #: J98022201
Test Mode: 794.9 and 804.9 xmtr

Model #: Lavalier mic
S/N or FCC 60502050159 & 60502020103
Engineer: BS
Date of Test: 08/04/98 Initial: _____

	Antenna	Pre-Amp	Cable A	Cable B	OCF
Number:	8	8	12		
Model:	EMCO 311	CDI_P1000	Green_M+L	None	None

Standard_	FCC Part 74	
Limits_	2	
Test Distance_	3	meters

Frequency MHz	Reading dB(uV)	Det. P/A/Q	Ant. Pol. H/V	Ant. Factor dB(1/m)	Pre-Amp dB	Insert. Loss dB	D. F. dB	Net dB(uV/m)	Attenuation dB(uV/m)	Margin dB
794.9	87.9	p	v	20.6	0.0	1.8	0.0	110.3	NA	
1589.0	41.2	p	v	24.9	29.6	0.0	0.0	36.5	73.8	-47.9
2384.0	38.6	p	v	27.5	28.9	2.3	0.0	39.5	70.8	-44.9
3179.0	28.0	p	v	30.2	28.0	2.5	0.0	32.7	77.7	-51.7
3974.0	32.3	p	v	31.3	27.8	2.7	0.0	38.5	71.9	-45.9
4769.0	23.6	p	v	32.1	28.0	3.2	0.0	30.9	79.4	-53.5
5564.0	20.5	p	v	34.4	28.3	3.7	0.0	30.3	80.0	-54.1
6359.0	19.3	p	v	34.4	28.0	3.9	0.0	29.6	80.7	-54.7
7154.0	18.2	p	v	36.3	27.9	4.3	0.0	30.9	79.4	-53.5
7948.0	8.0	p	v	37.5	27.5	4.6	0.0	22.5	87.8	-61.9
8743.0	7.2	p	v	37.3	27.1	4.7	0.0	22.1	88.2	-62.3
804.9	82.6	p	v	20.8	0.0	1.9	0.0	105.3	NA	
1609.0	43.5	p	v	24.9	29.5	0.0	0.0	38.9	66.4	-40.5
2414.0	41.1	p	v	27.5	28.5	2.3	0.0	42.4	62.9	-37.0
3219.0	20.4	p	v	30.2	27.9	2.5	0.0	25.2	80.2	-54.2
4024.0	33.3	p	v	32.5	27.9	2.9	0.0	40.8	64.6	-38.6
4829.0	18.3	p	v	32.1	28.1	3.2	0.0	25.5	79.8	-53.9
5634.0	21.8	p	v	34.4	28.3	3.7	0.0	31.6	73.7	-47.8
6439.0	19.0	p	v	34.4	28.0	3.9	0.0	29.3	76.0	-50.0
7244.0	9.4	p	v	36.3	28.0	4.3	0.0	22.0	83.3	-57.4
8049.0	8.5	p	v	36.9	27.2	4.8	0.0	23.0	82.3	-56.4

Notes: a) P: Peak; A: Average; Q: Quasi Peak; H: Horizontal; V: Vertical; OCF:Other Correction Factor; DF:Distance Factor
b) Insert. Loss = Cable A + Cable B + OCF.
c) Negative signs (-) in Margin column signify levels below the limit of 25.92.
d) The limit was calculated as 43 + 10 log P, where P is the mean output power in watts. P = 10.96mw.

ITS Intertek Testing Services

October 1, 1998

Federal Communications Commission
c/o Mellon Bank Center
Three Mellon Bank Center
525 William Penn Way, 27th Fl, Rm 153-2713
Pittsburgh, PA 15259-0001

Attention: Wholesale Lockbox Supervisor

Subject: FCC Permissive Change II Application for a Wireless Microphone Transmitter
Applicant: Nady Systems Inc.
FCC ID: BEK9E5743T

Dear Sir/Madam:

Enclosed please find a Permissive Change II certification application along with the filing fee of $45.00 for the above referenced product.

Should you have any questions, please contact David Chernomordik or the undersigned.

Sincerely,

G.C. Lim

gcl/

Enclosures

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