



Nemko Test Report: 5L0557RUS1

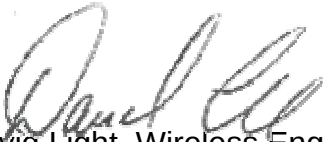
Applicant: MotorGuide

**Equipment Under Test:
(E.U.T.)** Transmitter MVP300022

In Accordance With: **FCC Part 15, Subpart C, 15.249**
Transmitters

Tested By: Nemko USA Inc.
802 N. Kealy
Lewisville, Texas 75057-3136

Authorized By:


David Light, Wireless Engineer

Date: 14 November 2005

EQUIPMENT: Transmitter MVP300022

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EQUIPMENT: Transmitter MVP300022

Section 1. Summary Of Test Results

Manufacturer: MotorGuide

Model No.: Transmitter MVP300022

Serial No.: None

General: **All measurements are traceable to national standards.**

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 15.249. All tests were conducted using measurement procedure ANSI C63.4-2003. Radiated Emissions were made on an open area test site.



New Submission



Production Unit



Class II Permissive Change



Pre-Production Unit

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.

See " Summary of Test Data".

**NVLAP LAB CODE: 100426-0**

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EQUIPMENT: Transmitter MVP300022

Summary Of Test Data

NAME OF TEST	PARA. NO.	RESULT
Conducted Emissions	15.207	Not Applicable
Radiated Emissions	15.249	Complies

Footnotes For N/A's: This device is battery powered. Testing was performed using a fully charged battery.

EQUIPMENT: Transmitter MVP300022

Section 2. General Equipment Specification

Frequency Range: Single

Operating Frequency(ies) of Sample: 915.2 MHz

Tunable Bands: N/A

User Frequency Adjustment: Dip Switches

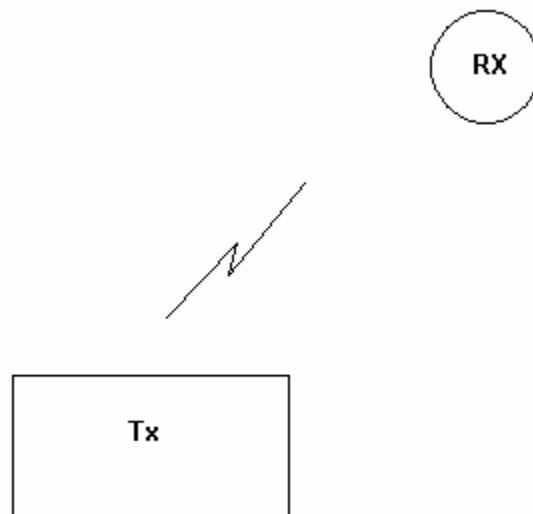
Integral Antenna	Yes	No
	☒	☐

EQUIPMENT: Transmitter MVP300022

Description of Device Tested

Remote control for trolling motor.

System Diagram



EQUIPMENT: Transmitter MVP300022

Section 3. Radiated Emissions

NAME OF TEST: Radiated Emissions	PARA. NO.: 15.249
TESTED BY: Kevin Rose	DATE: 11/02/2005

Minimum Standard: Para no. 15.249

(a) The field strengths shall not exceed the following:

Fundamental (MHz)	Field Strength (mV/m)	Field Strength (dB μ V)	Harmonic (mV/m)	Harmonic (dB μ V)
902-928	50	94	0.5	54
2400-2483.5	50	94	0.5	54

(b) Field strength limits are specified at a distance of 3 metres.

(c) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated limits of 15.209 whichever is the less attenuation.

(d) ...for frequencies above 1000 MHz, the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

Test Results: Complies**Measurement Data:** See attached table.**Test Equipment Used:** 759-791-1484-1485-1464-1016-993-760

Test Equipment Settings: RBW=1 MHz, VBW=1 MHz

EQUIPMENT: Transmitter MVP300022

Test Data - Radiated Emissions

Meas. Freq. (MHz)	Ant. Pol. (H/V)	Atten. (dB)	Meter Reading (dBuV)	Antenna Factor (dB)	Path Loss (dB)	RF Gain (dB)	Corrected Reading (dBuV/m)	Spec. limit (dBuV/m)	CR/SL Diff. (dB)	Pass Fail Unc.
915.2	H	0	57.6	23.4	8.2	0.0	89.2	94.0	-4.8	Pass
915.2	V	0	51.2	23.4	8.2	0.0	82.8	94.0	-11.2	Pass

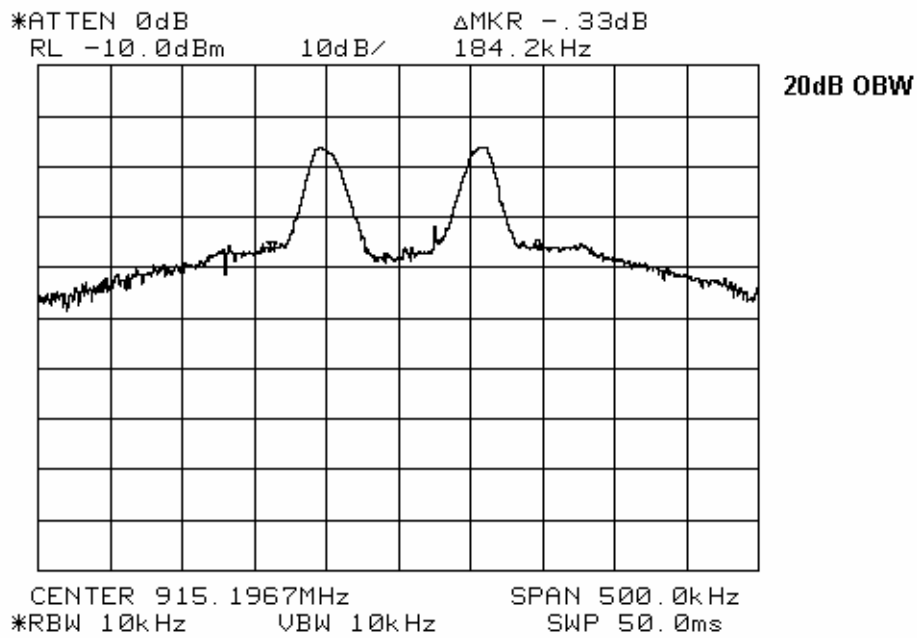
Harmonics

Frequency (MHz)	SPECTRUM ANALYZER READING	EQUIPMENT CORRECTION FACTORS	CORRECTED READINGS.	SPEC	MARGIN	PEAK/ AVG	POL
1,830.50	48.2	-2.1	46.1	54	-7.9	Peak	Horiz
1,830.50	46.8	-2.1	44.7	54	-9.3	Peak	Vert

Spectrum was searched from 30 MHz to 9200 MHz. All emissions within 20 dB of the specification limit of 54 dB μ V/m are reported.

EQUIPMENT: Transmitter MVP300022

20 dB Bandwidth



EQUIPMENT: Transmitter MVP300022

Radiated Photographs



EQUIPMENT: Transmitter MVP300022**Section 4. Test Equipment List**

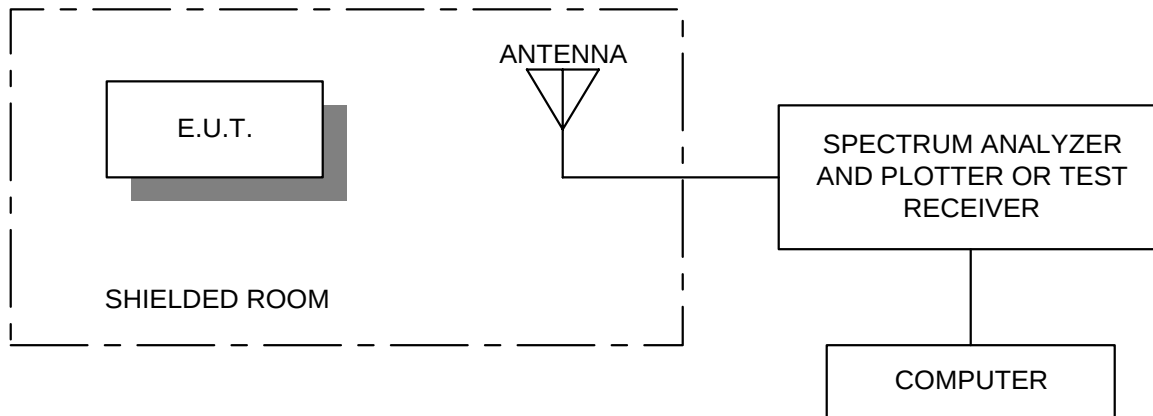
Nemko ID	Description	Manufacturer	Serial Number	Calibration Date	Calibration Due
		Model Number			
1034	ANTENNA,LP	A.H. SYSTEMS SAS-200/510	121	06/08/04	06/08/05
1484	Cable 2.0-18.0 Ghz	Storm PR90-010-072	N/A	08/26/05	08/26/06
1485	Cable 2.0-18.0 Ghz	Storm PR90-010-216	N/A	08/02/05	08/02/06
993	Horn antenna	A.H. Systems SAS-200/571	XXX	01/08/02	01/09/04
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	11/12/04	11/12/05
791	PREAMP, 25dB	ICC LNA25	398	11/12/04	11/12/05
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	01/14/05	01/15/07
760	Antenna biconical	Electro Metrics MFC-25	477	08/04/05	08/04/06

EQUIPMENT: Transmitter MVP300022

ANNEX A
TEST DIAGRAMS

EQUIPMENT: Transmitter MVP300022

Radiated Prescan



EQUIPMENT: Transmitter MVP300022

Test Site For Radiated Emissions

