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

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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

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.

Section 2. General Equipment Specification

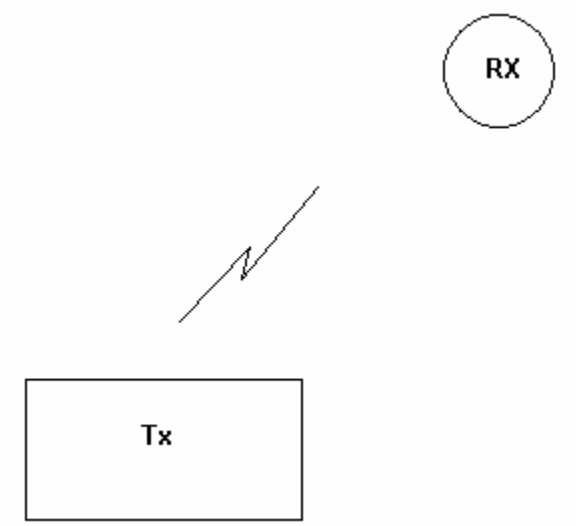
Frequency Range:	Single
Operating Frequency(ies) of Sample:	915.2 MHz
Tunable Bands:	N/A
User Frequency Adjustment:	Dip Switches

	Yes	**No**
Integral Antenna	☒	☐

Description of Device Tested

Remote control for trolling motor.

System Diagram



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 (dBμV)	Harmonic (mV/m)	Harmonic (dBμV)
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

Test Data - Radiated Emissions

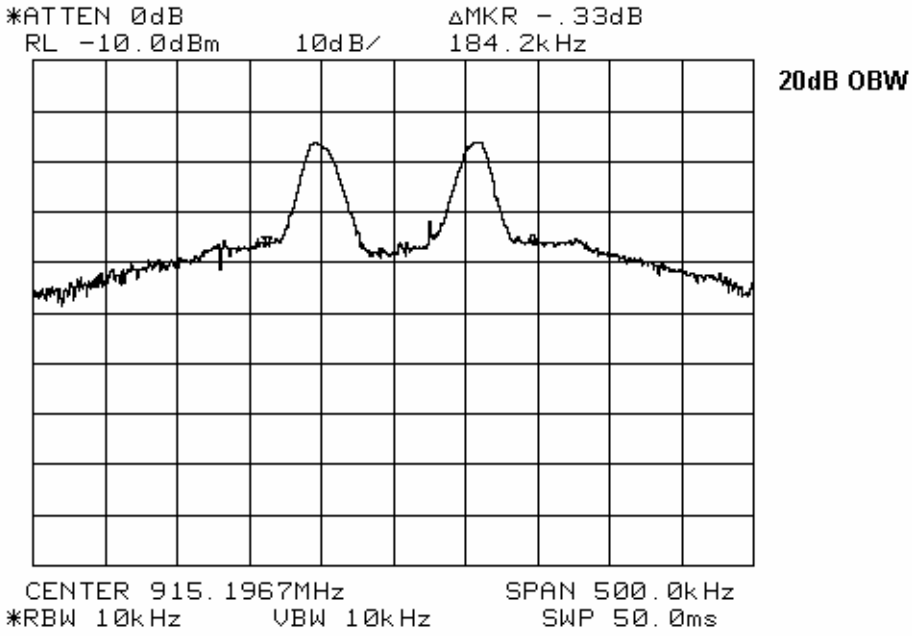
Meas. Freq. (MHz)	Ant. Pol. (H/V)	Atten. (dB)	Meter Reading (dBuV)	Antenna Factor (dB)	Path Loss (dB)	RF Gain (dB)	Corrected Reading (dBuV/m)	Spec. limit (dBuV/m)	CR/SL Diff. (dB)	Pass Fail Unc.
915.2	H	0	57.6	23.4	8.2	0.0	89.2	94.0	-4.8	Pass
915.2	V	0	51.2	23.4	8.2	0.0	82.8	94.0	-11.2	Pass

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 dBµV/m are reported.

20 dB Bandwidth



Radiated Photographs

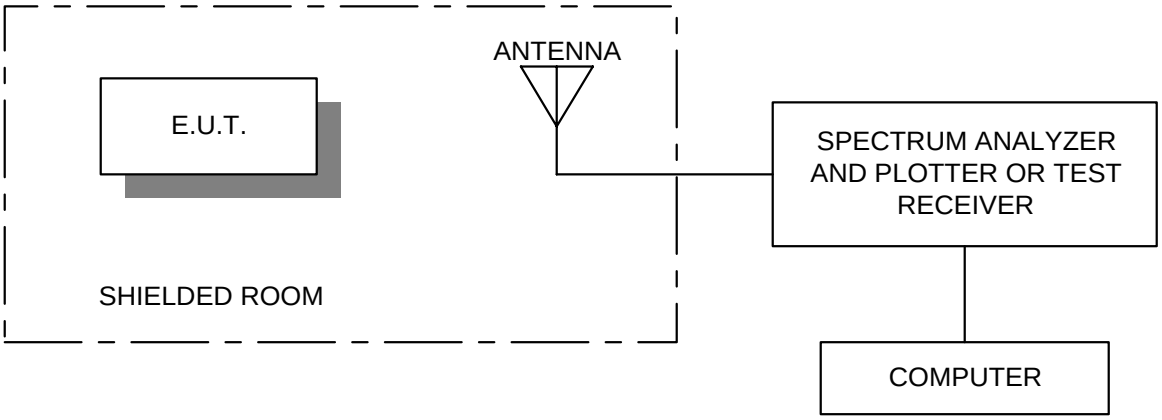
Section 4. Test Equipment List

Nemko ID	Description	Manufacturer / Model Number	Serial Number	Calibration Date	Calibration Due
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

ANNEX A

TEST DIAGRAMS

Radiated Prescan



Test Site For Radiated Emissions