

# **TEST REPORT**

To:	GRANDEX INTERNATIONAL DEVELOPMENT LIMITED		To:	-	
Attn:	Ivy Leung		Attn:	_	
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Folder No.:	fannie@grandex.com.hk				
Folder No.:					
Factory Name:					
Location:					
Product:	Ra		ntrol Vehicles EL: 61260		
			Sample No:	(5217)112-0068	
	1		Date of Receipt:	April 27, 2017	
KC			Test Date(s):	May 03, 2017	
			Test Requested:	FCC Part 15 – 2015	
			Test Method:	ANSI C63.10 – 2013	
			FCC ID:	VC961260149	
The results g	jiven in this report are related to the tes	sted sp	ecimen of the des	cribed electrical apparatus.	
CONCLUSION:	The submitted sample was found to <u>CC</u>	OMPLY	with requirement	of FCC Part 15 Subpart C.	
	Authorized	Signat	ure:		
Vir Law					
Reviewed by: Kir	Kinko Wong Approved by: Law Man Kit				
Date: June 05, 2			June 05, 2017		
BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office 1/F Pacific Trade Centre, This report is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. Our report is limited to the test samples identified herein. The results set forth in this report are not necessarily indicative or representative of the statistical quality or characteristics of the lot from which a test sample was taken or any similar or identical model.					

1/F Pacific Irade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon,HONG KONG Tel: +852 2331 0888 Fax: +852 2331 0889 www.cps.bureauveritas.com Insreport is intended for your exclusive use. Any copying or replication of this report to or for any other person of entity, or use of our name or trademark, is permitted only with our prior written permission. Our report is limited to the test samples identified herein. The results set forth in this report are not necessarily indicative or representative of the statistical quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof. You shall have thirty days from receipt of this report to request additional testing of the samples or to notify us of any errors or omissions relating to our report, provided, however, such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



# **Test Result Summary**

EMISSION TEST							
Test requirement: FCC Part 15 – 2015	Test requirement: FCC Part 15 – 2015						
Test Condition	Test Besult						
Test Condition	Test Method	Pass	Failed				
Radiated Emission Test,	ANSI C63.10	$\boxtimes$					
9kHz to 1GHz							
Frequency range of Fundamental Emission	ANSI C63.10	$\square$					
26dB Bandwidth of Fundamental Emission	ANSI C63.10	$\square$					
Duty Cycle Correction During 100mesc	ANSI C63.10						

**Report Revision & Sample Re-submit History:** 

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# TEST REPORT No.: (5217)112-0068 Test Laboratory & Test Instruments List

Radiated and Conducted emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 – 2013. An Open Area Test Site and Full Anechoic are set up for investigation and located at:

# **BUREAU VERITAS HONG KONG LIMITED, EMC CENTRE**

No. 2106-2107, 21/F., Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

#### **Test Instrument List**

Radiated Emission						
EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE DATE	
EMI TEST RECEIVER	R&S	ESCI	100379	22-FEB-2017	21-FEB-2018	
SIGNAL ANALYZER 40GHZ	R&S	FSV 40	100977	16-AUG-2016	15-AUG-2017	
BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	27-FEB-2016	26-FEB-2018	
OPEN AREA TEST SITE	BVCPS	N/A	N/A	17-JUN-2016	16-JUN-2017	
ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	10-MAY-2017	09-MAY-2018	
<b>BICONICAL ANTENNA</b>	R&S	HK116	100179	14-APR-2016	13-APR-2018	
LOG-PERIODIC DIPOLE ARRAY ANTENNA	R&S	HL223	832369/001	07-APR-2016	06-APR-2018	
LOOP ANTENNA	ETS-LINDGREN	6502	00102266	06-NOV-2015	05-NOV-2017	
COAXIAL CABLE	SUHNER	N/A	N/A	06-Jan-2017	05-Jan-2018	

#### Measurement Uncertainty

MEASUREMENT	FREQUENCY	UNCERTAINTY	
Radiated emissions	9kHz to 30MHz	4.2dB	
	30MHz to 200MHz	4.5dB	
	200MHZ to 1GHz	5.6dB	
	1GHz to 18GHz	4.7dB	
	18GHz to 40GHz	5.2dB	

#### Remarks: -

N/A: Not Applicable or Not Available

The measurement instrumentation uncertainty would be taking into consideration on each of the test result

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# Equipment Under Test [EUT]

Description of Sample.	
Model Name:	Radio Control Vehicles
Model Number:	61260
Additional Model Name:	
Additional Model Number:	
Additional Model information:	
Rating:	3Vd.c. ("AA" size battery x 2)

#### **Description of EUT Operation:**

The Equipment Under Test (EUT) is a GRANDEX INTERNATIONAL DEVELOPMENT LIMITED of Radio Control toy. The transmitter is 4 Sticks and operating at 49.86MHz. The EUT continues to transmit while sticks are being pushed or pulled, Modulation by IC, and type is pulse modulation. The transmitter has different control:

- 1. Left stick control forward and backward
- 2. Right stick control left, right or straight direction

#### Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna. The antenna consists of 19cm long metal spring covered with rubber. The antenna is not replaceable or user serviceable. The requirements of S15.203 are met. There are no deviations or exceptions to the specifications.



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# **Test Results**

# **Radiated Emissions (Fundamental)**

Test Requirement:	FCC Part 15 Section 15.235
Test Method:	ANSI C63.10 Clause 6.5
Test Date(s):	2017-05-03
Temperature:	27.0 °C
Humidity:	60.0 %
Atmospheric Pressure:	100.5 kPa
Mode of Operation:	Transmission mode
Tested Voltage:	3Vd.c. ("AA" size battery x 2)

# Test Method:

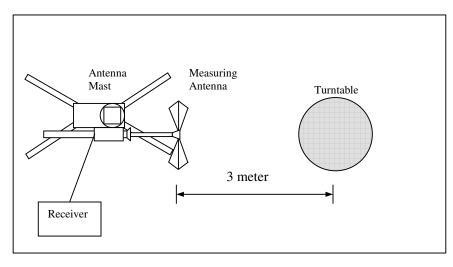
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 - 2013.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground for measurement frequency below 1GHz and 1.5m high above the ground for measurement frequency above 1GHz. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using new battery. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.

Location: The Roof, Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

# Test Setup: Open Area Test Site



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#### Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.235]:

Frequency Range of	Field Strength of	Field Strength of	
Fundamental	Fundamental Emission	Fundamental Emission	
	[Peak]	[Average]	
[MHz]	[µV/m]	[µV/m]	
49.82 - 49.90	100,000 (100 dBµV/m)	10,000 (80 dBµV/m)	

#### Measurement Data

# Test Result of (Transmission mode): PASS

#### Detection mode: Peak

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
49.86	Н	9.6	60.4	100.0	-39.6
49.86	V	9.6	70.3	100.0	-29.7

#### Detection mode: #Average

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
49.86	Н	9.6	**56.9	80.0	-23.1
49.86	V	9.6	**66.8	80.0	-13.2

# For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.
\*\*Duty Cycle Correction = 20Log(0.668) = -3.5dB

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 100KHz VBW = 300KHz

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#### Radiated Emissions (9kHz – 1GHz)

Test Requirement:	FCC Part 15 Section 15.209
Test Method:	ANSI C63.10 Clause 6.5
Test Date(s):	2017-05-03
Temperature:	27.0 °C
Humidity:	60.0 %
Atmospheric Pressure:	100.5 kPa
Mode of Operation:	Transmission mode
Tested Voltage:	3Vd.c. ("AA" size battery x 2)

#### Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range	Quasi-Peak Limits	Measurement Distance		
[MHz]	[µV/m]	m		
0.009-0.490	2400/F(kHz)	300		
0.490-1.705	24000/F(kHz)	30		
1.705-30	30	30		
30-88	100	3		
88-216	150	3		
216-960	200	3		
Above960	500	3		

#### **Measurement Data**

# Test Result of (Transmission mode): PASS

#### **Detection mode: Quasi-Peak**

Frequency	Polarity (H/V)	Field Strength	Limit	Margin (dB)	
Emissions detected are more than 20 dB below the limit line(s) in					
9kHz to 30MHz					

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#### **Measurement Data**

# Test Result of (Transmission mode): PASS

## **Detection mode: Quasi-Peak**

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
99.72	Н	10.1	36.8	43.5	-6.7
149.58	Н	12.8	29.3	43.5	-14.2
199.44	Н	14.9	23.8	43.5	-19.7
249.30	Н	12.0	24.6	46.0	-21.4
299.16	Н	13.7	30.8	46.0	-15.2
349.02	Н	15.3	26.8	46.0	-19.2
398.88	Н	16.6	28.5	46.0	-17.5
448.74	Н	17.6	29.6	46.0	-16.4
498.60	Н	19.0	30.7	46.0	-15.3
548.46	Н	19.6	32.5	46.0	-13.5

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
99.72	V	10.1	41.4	43.5	-2.1
149.58	V	12.8	39.4	43.5	-4.1
199.44	V	14.9	24.5	43.5	-19.0
249.30	V	12.0	24.8	46.0	-21.2
299.16	V	13.7	26.7	46.0	-19.3
349.02	V	15.3	27.0	46.0	-19.0
398.88	V	16.6	28.7	46.0	-17.3
448.74	V	17.6	29.2	46.0	-16.8
498.60	V	19.0	30.4	46.0	-15.6
548.46	V	19.6	32.3	46.0	-13.7

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting:

RBW = 120KHz VBW = 120KHz

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#### 26dB Bandwidth of Fundamental Emission

Test Requirement:	FCC 47 CFR 15.235
Test Method:	ANSI C63.10 Clause 6.10
Test Date(s):	2017-05-03
Temperature:	27.0 °C
Humidity:	60.0 %
Atmospheric Pressure:	100.5 kPa
Mode of Operation:	Transmission mode
Tested Voltage:	3Vd.c. ("AA" size battery x 2)

#### **Test Method:**

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

#### Limits for 26dB Bandwidth of Fundamental Emission:

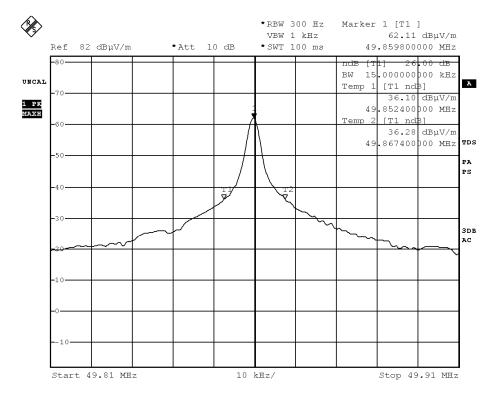
Frequency	26dB Bandwidth	Limits
[MHz]	[KHz]	[MHz]
49.8598	15.0	within 49.82-49.90

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## **Measurement Data**

# Test Result of 26dB Bandwidth of Fundamental Emission: PASS



Date: 28.APR.2017 16:48:40

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## **Duty Cycle Correction During 100msec:**

Each function key sends a different series of characters, but each packet period (100msec) never exceeds a series of 20 long (1.6msec) and 58 short (0.6msec) pulses. Assuming any combination of short and long pulses maybe obtained due to encoding the worst case transmit duty cycle would be considered (20x1.6msec)+(58x0.6msec) per 100msec = 66.8% duty cycle.

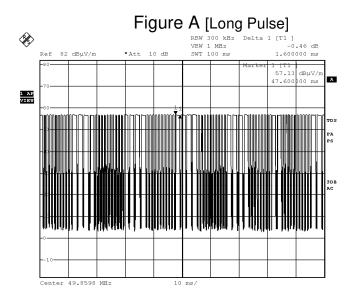
Remarks: -

Duty Cycle Correction = 20Log(0.668) = -3.5dB

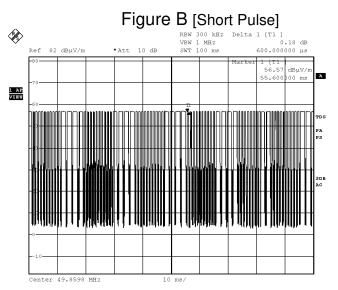
The following figures [Figure A to Figure B] show the characteristics of the pulse train for one of these functions.

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Date: 28.APR.2017 16:49:38



Date: 28.APR.2017 16:49:55

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#### Photographs of EUT

#### Front View of the product



**Top View of the product** 



Side View of the product



#### **Battery compartment**



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#### **Rear View of the product**



Bottom View of the product



Side View of the product



**Battery Cover** 



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## Photographs of EUT

# Internal View of the product



# **Inner Circuit Top View**



#### Antenna



# Internal View of the product



#### Inner Circuit Bottom View



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Measurement of Radiated Emission Test Set Up



\*\*\*\*\* End of Report \*\*\*\*\*

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