

TEST REPORT

	IESIK						
To:	KIDDESIGNS INC.		To:	-			
Attn:	KH Ming / Sammi Tsui		Attn:	-			
Address:	504-6, HARBOUR CENTRE, TOWER 2,	8	Address:	-			
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E-IIIaII.	khming@comtrad-ind.com / sammitsui@comtrad-ind.com		E-IIIaII.	-			
Folder No.:	Sammisure community induction	II					
Factory Name:		W	INTY				
Location:							
Product:	The Amazing Spider MODEL: SM-		n 2 Web Slinger Wa Brand Name: MAR\				
	1		Sample No:	(5215)041-0287			
				February 16, 2015			
			Test Date(s):	to			
				March 18, 2015			
			Test Requested:	FCC Part 15 – 2012			
			Test Method:	ANSI C63.4 – 2009			
1/1/			FCC ID:	IAJ202A			
The results	given in this report are related to the tes	ted sp	ecimen of the des	cribed electrical apparatus.			
CONCLUSION:	The submitted sample was found to CO	MPLY	with requirement	of FCC Part 15 Subpart C.			
	Authorized	Signat	ure:				
\mathcal{C}	auh		for La				
Reviewed by: Ke	Reviewed by: Keith Yeung Approved by: Steven Tsang						

BUREAU VERITAS HONG KONG LIMITED -Kowloon Bay Office
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Date: March 26, 2015

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Date: March 26, 2015



Test Result Summary

EMISSION TEST						
Test requirement: FCC Part 15 – 2012						
Took Condition Took Maked Test Result						
Test Condition	Test Method	Pass	Failed			
Radiated Emission Test,	ANSI C63.4					
9kHz to 1GHz			_			
Frequency range of Fundamental Emission	ANSI C63.4	\boxtimes				
26dB Bandwidth of Fundamental Emission	ANSI C63.4	\boxtimes				
Duty Cycle Correction During 100mesc	ANSI C63.4					

Report Revision & Sample Re-submit History:

Sample first submission date: February 12, 2015 Sample second submission date: March 09, 2015 Sample third submission date: March 17, 2015



Test Laboratory & Test Instruments List

Radiated and Conducted emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2009. An Open Area Test Site and Full Anechoic Chamber (FCC Listed Site, Registration No. 642151) 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.	CALIBRATION DUE
EMI TEST RECEIVER	R&S	ESCI	100379	20-JAN-2016
SIGNAL ANALYZER 40GHZ	R&S	FSV 40	100977	12-MAY-2015
LOOP ANTENNA	ETS-LINDGREN	6502	00102266	27-SEP-2015
BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	02-JAN-2016
OPEN AREA TEST SITE	BVCPS	N/A	N/A	06-JUL-2015
ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	03-FEB-2016
COAXIAL CABLE	SUHNER	RG214	N/A	22-DEC-2015

Measurement Uncertainty

Measurement	Frequency	Uncertainty
	9kHz to 30MHz	4.2dB
Radiated emissions	30MHz to 1GHz	5.0dB
	1GHz to 18GHz	4.9dB

Remarks: -

N/A: Not Applicable or Not Available

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



Equipment Under Test [EUT]

Description of Sample:

Model Name: The Amazing Spider – Man 2 Web Slinger Walkie Talkies

Model Number: SM-202 (Brand Name: MARVEL)
Additional Brand Name: Marvel, Hasbro, Disney, Disney Junior

Additional Model Number: AM-202, AV-202, FR-202, FR-202LF, MM-202, MS-202MM, PW-202CH, PW-

202MA, SF-202, ST-202, SW-202E7

Additional Product Name: (AM-202) ANT-MAN WALKIE TALKIES / (AV-202) AVENGERS WALKIE TALKIES

(FR-202) FROZEN WALKIE TALKIES / (FR-202LF) FROZEN WALKIE TALKIES

(MM-202) MINNIE MOUSE WALKIE TALKIES /

(MS-202MM) DESPICABLE ME MINION MADE MINION MANIA WALKIE TALKIES /

(PW-202CH) PAW PATROL MARSHALL & RUBBLE WALKIE TALKIES / (PW-202MA) PAW PATROL MARSHALL & RUBBLE WALKIE TALKIES /

(SF-202) SOFIA-THE-FIRST WALKIE TALKIES / (ST-202) The DOC IS IN FRS 2-way Radios /

(SW-202E7) STAR WARS EPISODE VII WALKIE TALKIES

Additional Model Declare the Circuit, PCB layout, Electrical parts of the products are identical to the

information: basic model. Except the appearance. Rating: 6Vd.c. ("LR44H" size battery x 4)

Description of EUT Operation:

The Equipment Under Test (EUT) is a **KIDDESIGNS INC.** of Radio Control toy. The transmitter is 1 button, 1 switch and operating at 49.86MHz. The EUT continues to transmit while button is being pressed, Modulation by IC, and type is pulse modulation.

The transmitter has different control:

- 1. On / Off switch -Power On / Off
- 2. Talk button sending voice messages

Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna. The antenna consists of 10cm long metal spring covered with rubber. The antenna is not replaceable or user serviceable. The requirement of S15.203 are met. There are no deviations or exceptions to the specifications.

Photo of Antenna



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Test Results

Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.235

Test Method: ANSI C63.4

Test Date(s): 2015-03-18

Temperature: 25.0 °C Humidity: 82.0 % Atmospheric Pressure: 101.1 kPa

Mode of Operation: Transmission mode

Tested Voltage: 6Vd.c. ("LR44H" size battery x 4)

Test Method:

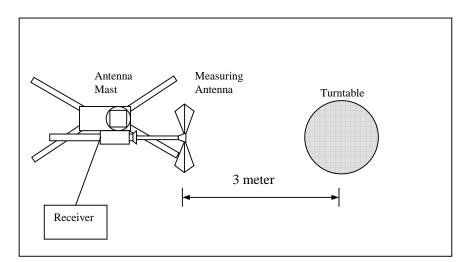
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 - 2009.

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. 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	9.2	64.2	100.0	-35.8
49.86	V	9.2	64.7	100.0	-35.3

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	9.2	62.0	80.0	-18.0
49.86	V	9.2	62.3	80.0	-17.7

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 100KHz

VBW = 300KHz



Radiated Emissions (9kHz - 1GHz)

Test Requirement: FCC Part 15 Section 15.209

Test Method: **ANSI C63.4** Test Date(s): 2015-03-18

Temperature: 25.0 °C Humidity: 82.0 % Atmospheric Pressure: 101.1 kPa

Mode of Operation: Transmission mode / Receiver mode Tested Voltage: 6Vd.c. ("LR44H" size battery x 4)

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 (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	12.3	29.3	43.5	-14.2
149.58	Н	11.9	25.7	43.5	-17.8
199.44	Н	10.8	28.3	43.5	-15.2
249.30	Н	14.2	25.8	46.0	-20.2
299.16	Н	15.0	32.8	46.0	-13.2
349.02	Н	16.5	31.8	46.0	-14.2
398.88	Н	17.3	31.1	46.0	-14.9
448.74	Н	19.1	32.6	46.0	-13.4
498.60	Н	19.8	29.6	46.0	-16.4
548.46	Н	21.0	33.5	46.0	-12.5

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	12.3	27.2	43.5	-16.3
149.58	V	11.9	29.2	43.5	-14.3
199.44	V	10.8	30.6	43.5	-12.9
249.30	V	14.2	25.9	46.0	-20.1
299.16	V	15.0	27.3	46.0	-18.7
349.02	V	16.5	29.6	46.0	-16.4
398.88	V	17.3	29.8	46.0	-16.2
448.74	V	19.1	32.3	46.0	-13.7
498.60	V	19.8	30.7	46.0	-15.3
548.46	V	21.0	34.6	46.0	-11.4

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz

VBW = 120KHz



Measurement Data

Test Result of (Receiver 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)
48.28	Τ	10.2	30.7	40.0	-9.3
148.16	Н	11.9	24.5	43.5	-19.0
192.00	Η	10.8	24.0	43.5	-19.5
255.92	Τ	14.8	26.5	46.0	-19.5
359.60	Н	16.8	31.7	46.0	-14.3
380.96	Н	16.8	32.9	46.0	-13.1

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)
48.28	٧	10.2	31.5	40.0	-8.5
148.16	٧	11.9	24.6	43.5	-18.9
192.00	V	10.8	24.2	43.5	-19.3
255.92	٧	14.8	26.2	46.0	-19.8
359.60	V	16.8	31.2	46.0	-14.8
380.96	V	16.8	33.6	46.0	-12.4

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz

VBW = 120KHz



26dB Bandwidth of Fundamental Emission

Test Requirement: FCC 47 CFR 15.235

Test Method: ANSI C63.4
Test Date(s): 2015-02-17

Temperature: 21.0 °C

Humidity: 80.0 % Atmospheric Pressure: 101.5 kPa

Mode of Operation: Transmission mode

Tested Voltage: 6Vd.c. ("LR44H" size battery x 4)

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.

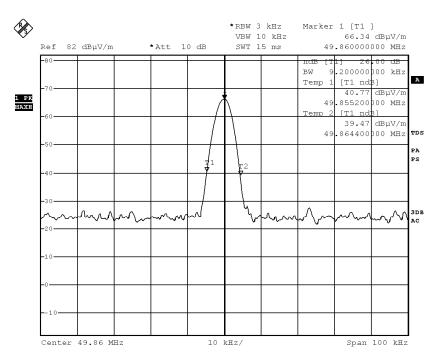
Limits for 26dB Bandwidth of Fundamental Emission:

Frequency	26dB Bandwidth	Limits
[MHz]	[KHz]	[MHz]
49.86	9.2	within 49.82-49.90



Measurement Data

Test Result of 26dB Bandwidth of Fundamental Emission: PASS



Date: 17.FEB.2015 09:49:23



Photographs of EUT

Front View of the product



Top View of the product



Side View of the product



Battery compartment



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



Internal View of the product



Inner Circuit Bottom View





Measurement of Radiated Emission Test Set Up



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