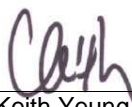





TEST REPORT No: (5215)315-0261(Revision 1)
Supersede Technical Report No.: (5215)315-0261(Revision)

TEST REPORT

To:	INTERNATIONAL TOY INC.	To:	-
Attn:	Steven Asher / Ryan Dodge / Scott Quon / Elmen Lai	Attn:	-
Address:	2151 MICHELSON DRIVE, SUITE 185, IRVINE, CA 92612 USA	Address:	-
Fax:	--	Fax:	-
E-mail:	stevenasher@internationaltoy.com / ryandodge@internationaltoy.com / scottquon@internationaltoy.com / elmenlai@internationaltoy.com	E-mail:	-
Folder No.:	--		
Factory name:	JADA (FOGANG) TOYS CO., LTD.		
Location:	Fogang, China		
Product:	ROLEPLAY SET Model No.: --		
Please see the exhibit "External Photo"		Sample No:	(5215)315-0261
		Date of Receipt	November 12, 2015
		Test date:	November 26, 2015 to December 28, 2015
		Test Requested:	FCC Part 15 - 2012
		Test Method:	ANSI C63.4 - 2009
		FCC ID:	2ACU8INT102
The results given in this report are related to the tested specimen of the described electrical apparatus.			
CONCLUSION: The submitted sample was found to <u>COMPLY</u> with requirement of FCC Part 15 Subpart C.			
Authorized Signature:			
			
Reviewed by: Keith Yeung		Approved by: Law Man Kit	
Date: December 31, 2015		Date: December 31, 2015	



TEST REPORT No: (5215)315-0261(Revision 1)
Supersede Technical Report No.: (5215)315-0261(Revision)
Test Result Summary

EMISSION TEST			
Test requirement: FCC Part 15 - 2012			
Test Condition	Test Method	Test Result	
		Pass	Failed
Radiated Emission Test, 9kHz to 40GHz	ANSI C63.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Frequency range of Fundamental Emission	ANSI C63.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
26dB Bandwidth of Fundamental Emission	ANSI C63.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Duty Cycle Correction During 100msec	ANSI C63.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Report Revision & Sample Re-submit History:

Revision: update test result

Revision 1: update product information

Sample first submission date: November 12, 2015

Sample second submission date: December 07, 2015

Sample third submission date: December 24, 2015



TEST REPORT No: (5215)315-0261(Revision 1)
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Location of the test laboratory

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

List of measuring equipment

Radiated Emission

EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CALIBRATION	CALIBRATION DUE
EMI TEST RECEIVER	R&S	ESCI	100379	04-FEB-2015	03-FEB-2016
SIGNAL ANALYZER 40GHZ	ROHDE & SCHWARZ	FSV 40	100977	30-JUN-2015	29-JUN-2016
SPECTRUM ANALYZER	R&S	R3127	111000909	27-APR-2015	26-APR-2016
LOOP ANTENNA	ETS LINDGREN	6502	00102266	06-NOV-2015	05-NOV-2016
BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	03-FEB-2015	02-FEB-2016
HORN ANTENNA	SCHWARZBECK	BBHA9120D	9120D-692	27-DEC-2014	26-DEC-2016
WIDEBAND HORN ANTENNA 18 TO 40GHZ	STEATITE	QWH-SL-18-40-K-SG	12688	03-SEP-2015	02-SEP-2016
PREAMPLIFIER	SCHWARZBECK	BBV9718	9718-152	13-OCT-2015	12-OCT-2016
OPEN AREA TEST SITE	BVCPS	N/A	N/A	19-JUN-2015	18-JUN-2016
ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	13-FEB-2015	12-FEB-2016
COAXIAL CABLE	SUHNER	N/A	N/A	08-JAN-2015	07-JAN-2016
HIGH FREQUENCY RF CABLE	ROHDE & SCHWARZ	N/A	N/A	04-NOV-2015	03-NOV-2016

Measurement Uncertainty

MEASUREMENT	FREQUENCY	UNCERTAINTY
Radiated emissions	9kHz to 30MHz	4.2dB
	30MHz to 1GHz	5.0dB
	1GHz to 18GHz	4.9dB
	18GHz to 40GHz	4.8dB

Remarks:-

N/A : Not Applicable or Not Available

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



TEST REPORT No: (5215)315-0261(Revision 1)
Supersede Technical Report No.: (5215)315-0261(Revision)

Equipment Under Test [EUT]

Description of Sample:

Model Name: ROLEPLAY SET
Model Number: --
Rating: 4.5Vd.c. ("AAA" size battery x 3)

Description of EUT Operation:

The Equipment Under Test (EUT) is a **INTERNATIONAL TOY INC.** of Remote Control Transceiver. It is 2 buttons & 1 knob transceiver and operating at 2407MHz to 2477MHz. The lowest, middle and highest frequencies were tested and the results are shown in the report. The EUT transmit while sticks are being pushed or pulled, Modulation by IC, and type is GFSK. There are total 20 channels and below is the frequency list (MHz):

2407	2410	2416	2419	2421	2425	2427	2429	2431	2433
2435	2437	2439	2441	2443	2445	2451	2455	2471	2477

The transceiver has different control:

1. Top button – TRY-ME
2. Knob – ON/OFF power control & Volume control
3. Left Stick – Transmit/Receive control

Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna. It is soldered on the PCB. The antenna consists of 5.5cm long wire The antenna is not replaceable or user serviceable. The requirements of S15.203 are met. There are no deviations or exceptions to the specifications.

Photo of Antenna
Please see the exhibit "Internal Photo"

TEST REPORT No: (5215)315-0261(Revision 1)
Supersede Technical Report No.: (5215)315-0261(Revision)

Test Results

Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.249
Test Method: ANSI C63.4
Test Date(s): 2015-12-28
Temperature: 20.0 °C
Humidity: 71.0 %
Atmospheric Pressure: 100.2 kPa
Mode of Operation: Transmission mode
Tested Voltage: 4.5Vd.c. ("AAA" size battery x 3)

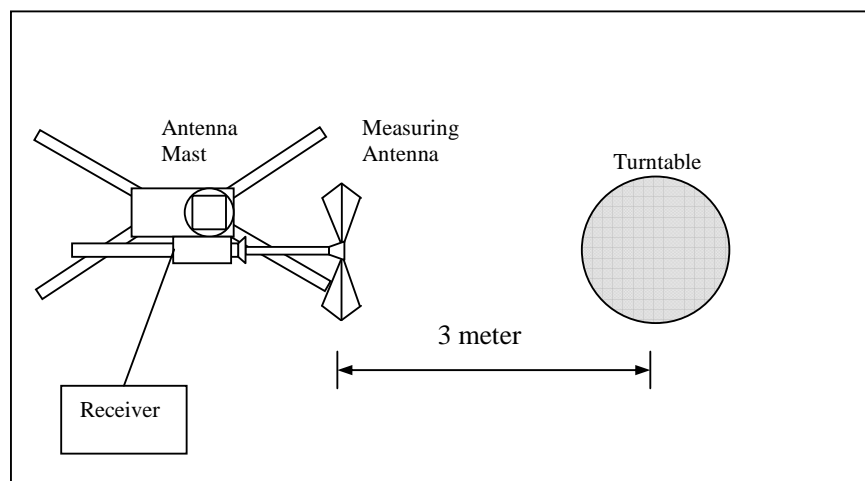
Test Procedure:

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.

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

Test Setup: Open Area Test Site





TEST REPORT No: (5215)315-0261(Revision 1)
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Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission (Average) [mV/m]	Field Strength of Harmonics Emission (Average) [μV/m]
2400-2483.5	50	500

Measurement Data

Test Result of (Transmission mode, Lowest frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty-cycle correction (dB)	Field Strength at 3m – Peak (dBμV/m)	Limit at 3m – Peak (dBμV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBμV/m)	Limit at 3m – Average (dBμV/m)	Margin - Average (dB)
2407.00	H	*0.0	-24.4	76.4	114.0	-37.6	**52.0	94.0	-42.0
2407.00	V	*0.0	-24.4	80.4	114.0	-33.6	**56.0	94.0	-38.0

Test Result of (Transmission mode, Middle frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty-cycle correction (dB)	Field Strength at 3m – Peak (dBμV/m)	Limit at 3m – Peak (dBμV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBμV/m)	Limit at 3m – Average (dBμV/m)	Margin - Average (dB)
2443.00	H	*0.0	-24.4	76.5	114.0	-37.5	**52.1	94.0	-41.9
2443.00	V	*0.0	-24.4	81.3	114.0	-32.7	**56.9	94.0	-37.1

Test Result of (Transmission mode, Highest frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty-cycle correction (dB)	Field Strength at 3m – Peak (dBμV/m)	Limit at 3m – Peak (dBμV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBμV/m)	Limit at 3m – Average (dBμV/m)	Margin - Average (dB)
2477.00	H	*0.0	-24.4	77.9	114.0	-36.1	**53.5	94.0	-40.5
2477.00	V	*0.0	-24.4	82.5	114.0	-31.5	**58.1	94.0	-35.9

For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

* Correction factor: Antenna factor + Cable loss - Gain of pre-amplifier

**Duty Cycle Correction = 20Log(0.06) = -24.4dB.

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz

VBW = 1MHz



TEST REPORT No: (5215)315-0261(Revision 1)
Supersede Technical Report No.: (5215)315-0261(Revision)

Radiated Emissions (Spurious Emission)

Test Requirement: FCC Part 15 Section 15.249
 Test Method: ANSI C63.4
 Test Date(s): 2015-12-28
 Temperature: 20.0 °C
 Humidity: 71.0 %
 Atmospheric Pressure: 100.2 kPa
 Mode of Operation: Transmission mode
 Tested Voltage: 4.5Vd.c. ("AAA" size battery x 3)

Measurement Data

Test Result of (Transmission mode, Lowest frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty-cycle correction (dB)	Field Strength at 3m – Peak (dBμV/m)	Limit at 3m – Peak (dBμV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBμV/m)	Limit at 3m – Average (dBμV/m)	Margin - Average (dB)
4814.00	H	5.9	-24.4	49.1	74.0	-24.9	**24.7	54.0	-29.3
7221.00	H	12.7	-24.4	50.3	74.0	-23.7	**25.9	54.0	-28.1
9628.00	H	16.4	-24.4	52.7	74.0	-21.3	**28.3	54.0	-25.7
12035.00	H	18.4	-24.4	56.0	74.0	-18.0	**31.6	54.0	-22.4
14442.00	H	23.2	-24.4	62.0	74.0	-12.0	**37.6	54.0	-16.4
16849.00	H	22.0	-24.4	62.6	74.0	-11.4	**38.2	54.0	-15.8
19256.00	H	46.3	-24.4	62.1	74.0	-11.9	**37.7	54.0	-16.3
21663.00	H	47.1	-24.4	60.3	74.0	-13.7	**35.9	54.0	-18.1
24070.00	H	47.5	-24.4	61.1	74.0	-12.9	**36.7	54.0	-17.3
26477.00	H	48.5	-24.4	62.4	74.0	-11.6	**38.0	54.0	-16.0

For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

* Correction factor: Antenna factor + Cable loss - Gain of pre-amplifier

**Duty Cycle Correction = $20\log(0.06) = -24.4\text{dB}$.

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz
 VBW = 1MHz



TEST REPORT No: (5215)315-0261(Revision 1)
Supersede Technical Report No.: (5215)315-0261(Revision)

Measurement Data

Test Result of (Transmission mode, Lowest frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty-cycle correction (dB)	Field Strength at 3m – Peak (dBμV/m)	Limit at 3m – Peak (dBμV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBμV/m)	Limit at 3m – Average (dBμV/m)	Margin - Average (dB)
4814.00	V	5.9	-24.4	49.4	74.0	-24.6	**25.0	54.0	-29.0
7221.00	V	12.7	-24.4	50.1	74.0	-23.9	**25.7	54.0	-28.3
9628.00	V	16.4	-24.4	53.5	74.0	-20.5	**29.1	54.0	-24.9
12035.00	V	18.4	-24.4	55.6	74.0	-18.4	**31.2	54.0	-22.8
14442.00	V	23.2	-24.4	61.4	74.0	-12.6	**37.0	54.0	-17.0
16849.00	V	22.0	-24.4	62.8	74.0	-11.2	**38.4	54.0	-15.6
19256.00	V	46.3	-24.4	62.2	74.0	-11.8	**37.8	54.0	-16.2
21663.00	V	47.1	-24.4	61.6	74.0	-12.4	**37.2	54.0	-16.8
24070.00	V	47.5	-24.4	63.1	74.0	-10.9	**38.7	54.0	-15.3
26477.00	V	48.5	-24.4	62.3	74.0	-11.7	**37.9	54.0	-16.1

For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

* Correction factor: Antenna factor + Cable loss - Gain of pre-amplifier

**Duty Cycle Correction = $20\log(0.06) = -24.4\text{dB}$.

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz
 VBW = 1MHz

TEST REPORT No: (5215)315-0261(Revision 1)
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Measurement Data

Test Result of (Transmission mode, Middle frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty-cycle correction (dB)	Field Strength at 3m – Peak (dBμV/m)	Limit at 3m – Peak (dBμV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBμV/m)	Limit at 3m – Average (dBμV/m)	Margin - Average (dB)
4886.00	H	5.9	-24.4	47.3	74.0	-26.7	**22.9	54.0	-31.1
7329.00	H	12.7	-24.4	50.1	74.0	-23.9	**25.7	54.0	-28.3
9772.00	H	16.4	-24.4	52.7	74.0	-21.3	**28.3	54.0	-25.7
12215.00	H	18.6	-24.4	56.6	74.0	-17.4	**32.2	54.0	-21.8
14658.00	H	25.0	-24.4	63.6	74.0	-10.4	**39.2	54.0	-14.8
17101.00	H	27.2	-24.4	63.8	74.0	-10.2	**39.4	54.0	-14.6
19544.00	H	46.5	-24.4	63.2	74.0	-10.8	**38.8	54.0	-15.2
21987.00	H	46.9	-24.4	62.3	74.0	-11.7	**37.9	54.0	-16.1
24430.00	H	48.0	-24.4	61.9	74.0	-12.1	**37.5	54.0	-16.5
26873.00	H	48.3	-24.4	62.6	74.0	-11.4	**38.2	54.0	-15.8

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty-cycle correction (dB)	Field Strength at 3m – Peak (dBμV/m)	Limit at 3m – Peak (dBμV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBμV/m)	Limit at 3m – Average (dBμV/m)	Margin - Average (dB)
4886.00	V	5.9	-24.4	46.5	74.0	-27.5	**22.1	54.0	-31.9
7329.00	V	12.7	-24.4	48.7	74.0	-25.3	**24.3	54.0	-29.7
9772.00	V	16.4	-24.4	51.9	74.0	-22.1	**27.5	54.0	-26.5
12215.00	V	18.6	-24.4	55.0	74.0	-19.0	**30.6	54.0	-23.4
14658.00	V	25.0	-24.4	61.4	74.0	-12.6	**37.0	54.0	-17.0
17101.00	V	27.2	-24.4	62.6	74.0	-11.4	**38.2	54.0	-15.8
19544.00	V	46.5	-24.4	63.0	74.0	-11.0	**38.6	54.0	-15.4
21987.00	V	46.9	-24.4	61.0	74.0	-13.0	**36.6	54.0	-17.4
24430.00	V	48.0	-24.4	61.7	74.0	-12.3	**37.3	54.0	-16.7
26873.00	V	48.3	-24.4	62.2	74.0	-11.8	**37.8	54.0	-16.2

For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

* Correction factor: Antenna factor + Cable loss - Gain of pre-amplifier

**Duty Cycle Correction = $20\log(0.06) = -24.4\text{dB}$.

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz
VBW = 1MHz

TEST REPORT No: (5215)315-0261(Revision 1)
Supersede Technical Report No.: (5215)315-0261(Revision)

Measurement Data

Test Result of (Transmission mode, Highest frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty-cycle correction (dB)	Field Strength at 3m – Peak (dBμV/m)	Limit at 3m – Peak (dBμV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBμV/m)	Limit at 3m – Average (dBμV/m)	Margin - Average (dB)
4954.00	H	5.9	-24.4	48.1	74.0	-25.9	**23.7	54.0	-30.3
7431.00	H	13.3	-24.4	50.9	74.0	-23.1	**26.5	54.0	-27.5
9908.00	H	16.4	-24.4	53.7	74.0	-20.3	**29.3	54.0	-24.7
12385.00	H	18.6	-24.4	56.7	74.0	-17.3	**32.3	54.0	-21.7
14862.00	H	25.0	-24.4	63.0	74.0	-11.0	**38.6	54.0	-15.4
17339.00	H	27.2	-24.4	63.7	74.0	-10.3	**39.3	54.0	-14.7
19816.00	H	46.6	-24.4	63.0	74.0	-11.0	**38.6	54.0	-15.4
22293.00	H	47.0	-24.4	61.4	74.0	-12.6	**37.0	54.0	-17.0
24770.00	H	48.1	-24.4	62.0	74.0	-12.0	**37.6	54.0	-16.4
27247.00	H	48.5	-24.4	61.7	74.0	-12.3	**37.3	54.0	-16.7

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty-cycle correction (dB)	Field Strength at 3m – Peak (dBμV/m)	Limit at 3m – Peak (dBμV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBμV/m)	Limit at 3m – Average (dBμV/m)	Margin - Average (dB)
4954.00	V	5.9	-24.4	46.2	74.0	-27.8	**21.8	54.0	-32.2
7431.00	V	13.3	-24.4	49.4	74.0	-24.6	**25.0	54.0	-29.0
9908.00	V	16.4	-24.4	53.2	74.0	-20.8	**28.8	54.0	-25.2
12385.00	V	18.6	-24.4	54.8	74.0	-19.2	**30.4	54.0	-23.6
14862.00	V	25.0	-24.4	62.3	74.0	-11.7	**37.9	54.0	-16.1
17339.00	V	27.2	-24.4	64.7	74.0	-9.3	**40.3	54.0	-13.7
19816.00	V	46.6	-24.4	64.2	74.0	-9.8	**39.8	54.0	-14.2
22293.00	V	47.0	-24.4	61.9	74.0	-12.1	**37.5	54.0	-16.5
24770.00	V	48.1	-24.4	62.4	74.0	-11.6	**38.0	54.0	-16.0
27247.00	V	48.5	-24.4	62.0	74.0	-12.0	**37.6	54.0	-16.4

For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

* Correction factor: Antenna factor + Cable loss - Gain of pre-amplifier

**Duty Cycle Correction = $20\log(0.06) = -24.4\text{dB}$.

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz
VBW = 1MHz



TEST REPORT No: (5215)315-0261(Revision 1)
Supersede Technical Report No.: (5215)315-0261(Revision)

Radiated Emissions (9kHz – 40GHz)

Test Requirement: FCC Part 15 Section 15.209
Test Method: ANSI C63.4
Test Date(s): 2015-11-26
Temperature: 24.0 °C
Humidity: 70.0 %
Atmospheric Pressure: 100.8 kPa
Mode of Operation: On mode
Tested Voltage: 4.5Vd.c. ("AAA" size battery x 3)

Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [μV/m]	Measurement Distance 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 (On mode): PASS

Detection mode: 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				

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 200Hz
VBW = 200Hz



TEST REPORT No: (5215)315-0261(Revision 1)
Supersede Technical Report No.: (5215)315-0261(Revision)

Measurement Data

Test Result of (On mode): PASS

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
42.26	H	27.3	40.0	-12.7
120.62	H	25.7	43.5	-17.8
220.40	H	23.0	46.0	-23.0
376.28	H	26.8	46.0	-19.2
462.12	H	28.4	46.0	-17.6
675.32	H	31.0	46.0	-15.0

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
42.26	V	27.6	40.0	-12.4
120.62	V	25.3	43.5	-18.2
220.40	V	23.2	46.0	-22.8
376.28	V	27.2	46.0	-18.8
462.12	V	28.8	46.0	-17.2
675.32	V	31.2	46.0	-14.8

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz
 VBW = 120KHz



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Frequency range of Fundamental Emission

Test Requirement: FCC 47 CFR 15.249
Test Method: ANSI C63.4:2009 (Section 13.1.7)
Test Date(s): 2015-12-28
Temperature: 20.0 °C
Humidity: 71.0 %
Atmospheric Pressure: 100.2 kPa
Mode of Operation: Transmission mode
Tested Voltage: 4.5Vd.c. ("AAA" size battery x 3)

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 Frequency range of Fundamental Emission:

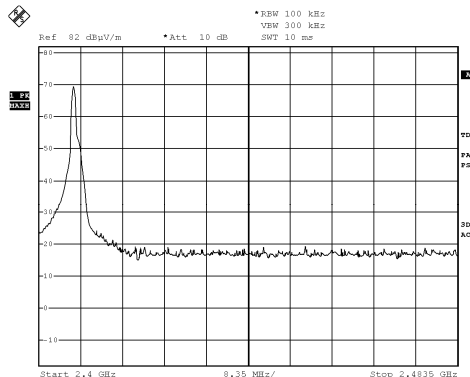
Frequency [MHz]	FCC Limits [MHz]
2405.800 – 2478.320	2400.00 – 2483.50

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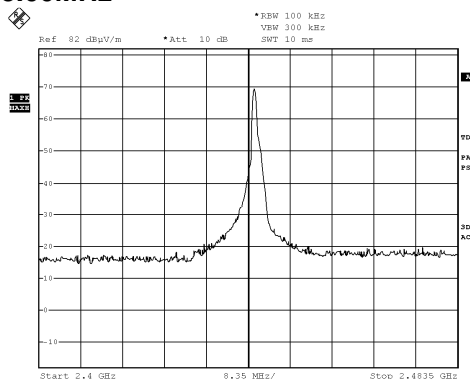
Measurement Data :

Test Result of Frequency Range of Fundamental Emission: PASS

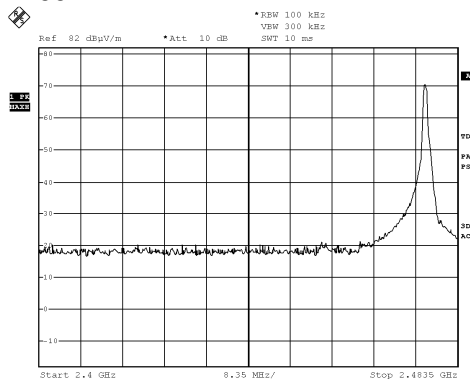
Lowest Frequency – 2407.00MHz



Middle Frequency – 2443.00MHz



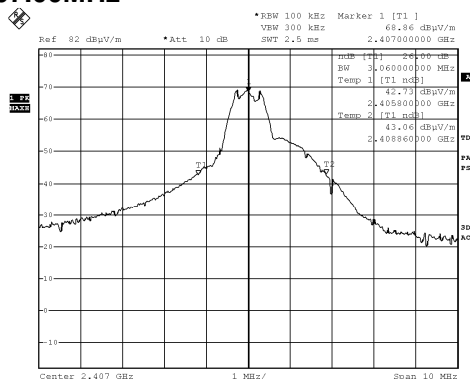
Highest Frequency – 2477.00MHz



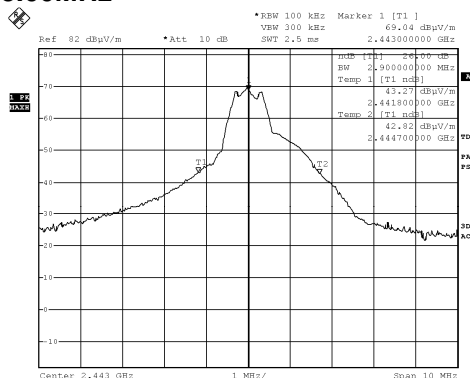
TEST REPORT No: (5215)315-0261(Revision 1)
Supersede Technical Report No.: (5215)315-0261(Revision)
Measurement Data :

Test Result of 26dB Bandwidth of Fundamental Emission: PASS

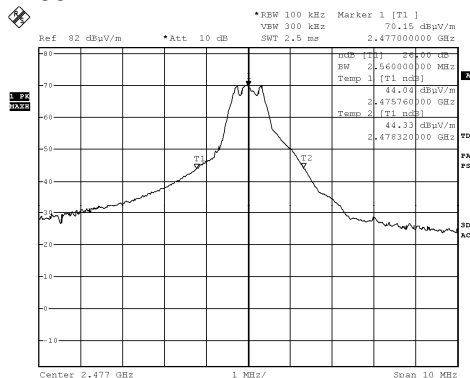
Lowest Frequency – 2407.00MHz



Middle Frequency – 2443.00MHz



Highest Frequency – 2477.00MHz





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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 pulses (0.3 msec). Assuming any combination of short and long pulses maybe obtained due to encoding the worst case transmit duty cycle would be considered 20*0.3 per 100msec = 6% duty cycle.

Remarks:

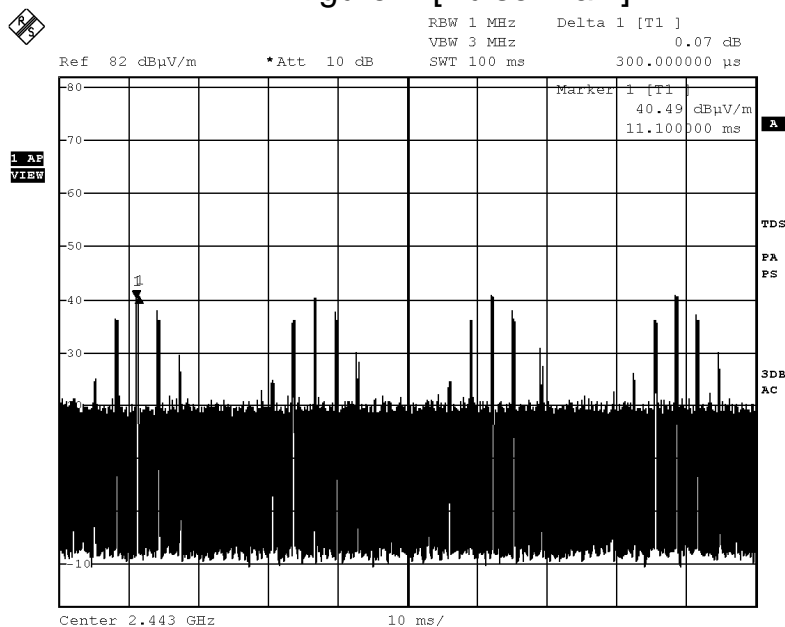
Duty Cycle Correction = $20\text{Log}(0.06) = -24.4\text{dB}$

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

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Measurement Data :

Figure A [Pulse Train]





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Photographs of EUT
Please see the exhibit “External Photo” & “ Internal Photo”

Test Set Up
Please see the exhibit “Test setup Photo”

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