

TEST REPORT

	IESIK	CP	JKI	
To:	INTERNATIONAL TOY INC.		To:	-
Attn:	Scott Quon		Attn:	-
Address:	2151 Michelson Drive, Suite 185, Irvine, CA 92612 USA	1	Address:	-
Fax:	949-333-3777		Fax:	-
E-mail:	scottquon@internationlatoy.com		E-mail:	-
Folder No.:				
Factory name:	JADA (F	OGAN	G) TOYS CO., LTD	
Location:			ng, China	
Product:	EP7 RE		CONTROLLED BB8 el No.:	3
- C			Sample No:	(5216)179-0264
	AA		Date of Receipt:	June 27, 2016
			Test date:	July 13, 2016 to August 09, 2016
			Test Requested:	FCC Part 15 - 2015
			Test Method:	ANSI C63.10 - 2013
100			FCC ID:	2AIRRINT103
The results	given in this report are related to the te	sted sp	ecimen of the des	cribed electrical apparatus.
CONCLUSION:	The submitted sample was found to <u>C</u>	OMPLY	with requirement	of FCC Part 15 Subpart C.
	Authorize	d Signat	ure:	
Reviewed by: K	Coup eith Yeung	Approv	ved by: Law Man kit	
Data: August 11			August 11, 2016	

BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office 1/F Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon,HONG KONG Tel: +852 2331 0888 Fax: +852 2331 0889

Date: August 11, 2016

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Date: August 11, 2016



TEST REPORT No: (5216)179-0264 **Test Result Summary**

EMISSION TEST											
Test requirement: FCC Part 15 - 2015											
Test Condition Test Method Test Result											
rest Condition	rest Method	Pass	Failed								
Radiated Emission Test,	ANSI C63.10										
9kHz to 24GHz			_								
Frequency range of Fundamental Emission	ANSI C63.10	\boxtimes									
26dB Bandwidth of Fundamental Emission	ANSI C63.10	\boxtimes									
Duty Cycle Correction During 100msec	ANSI C63.10	\boxtimes									

Report Revision & Sample Re-submit History:

Sample first submission date: June 29, 2016 Sample second submission date: July 22, 2016 Sample third submission date: August 03, 2016



Location of the test laboratory

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 Chamber 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

Radiated Efficient										
EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE DATE					
EMI TEST RECEIVER	R&S	ESCI	100379	23-FEB-2016	22-FEB-2017					
SIGNAL ANALYZER 40GHZ	R&S	FSV 40	100977	29-JUNE-2016	28-JUNE-2017					
BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	27-FEB-2016	26-FEB-2018					
OPEN AREA TEST SITE	BVCPS	N/A	N/A	18-JUN-2016	17-JUN-2017					
ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	11-MAY-2016	10-MAY-2017					
BICONICAL ANTENNA	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					
HORN ANTENNA (1-18GHZ)	SCHWARZBECK	BBHA9120D	9120D-692	05-NOV-2016	04-NOV-2018					
HORN ANTENNA (7.5 – 18GHZ)	SCHWARZBECK	HWRD 750	00015	17-JUN-2016	16-JUN-2018					
WIDEBAND HORN ANTENNA	STEATITE	QWH-SL-18-40- K-SG	12688	03-SEP-2015	02-SEP-2017					
COAXIAL CABLE	SUHNER	N/A	N/A	07-JAN-2016	06-JAN-2017					
COAXIAL CABLE	HUBER + SUHNER	RG214	N/A	05-OCT-2015	04-OCT-2016					

Measurement Uncertainty

MEASUREMENT	FREQUENCY	UNCERTAINTY
	9kHz to 30MHz	4.2dB
	30MHz to 200MHz	4.5dB
Radiated emissions	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: EP7 REMOTE CONTROLLED BB8

Model Number: -Additional Model Name: -Additional Model Number: -Additional Model information: --

Rating: 3Vd.c. ("AAA" size battery x 2)

Description of EUT Operation:

The Equipment Under Test (EUT) is a **INTERNATIONAL TOY INC.** of Remote Control Transmitter. It is a 1 switch and 5 buttons transmitter and operating at 2408MHz to 2480MHz. The lowest, middle and highest frequencies were tested and the results are shown in the report. The EUT transmit while buttons is being pressed, Modulation by IC, and type is GFSK.

There are total 73 channels and below is the frequency list:

ch.no	freq.														
1	2408	11	2418	21	2428	31	2438	41	2448	51	2458	61	2468	71	2478
2	2409	12	2419	22	2429	32	2439	42	2449	52	2459	62	2469	72	2479
3	2410	13	2420	23	2430	33	2440	43	2450	53	2460	63	2470	73	2480
4	2411	14	2421	24	2431	34	2441	44	2451	54	2461	64	2471		
5	2412	15	2422	25	2432	35	2442	45	2452	55	2462	65	2472		
6	2413	16	2423	26	2433	36	2443	46	2453	56	2463	66	2473		
7	2414	17	2424	27	2434	37	2444	47	2454	57	2464	67	2474		
8	2415	18	2425	28	2435	38	2445	48	2455	58	2465	68	2475		
9	2416	19	2426	29	2436	39	2446	49	2456	59	2466	69	2476		
10	2417	20	2427	30	2437	40	2447	50	2457	60	2467	70	2477		

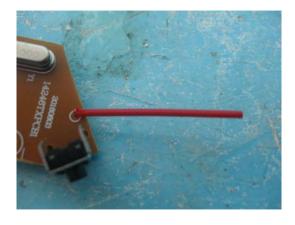
The transmitter has different control:

- ON/OFF Switch control power on/off
- 2. Try me button control the receiver's sound
- 3. Forward and Backward button control the receiver go forward and backward
- 4. Leftward and Rightward button control the receiver go leftward and rightward

Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna. It is soldered on the PCB. The antenna consists of 2.9cm 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



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Test Results

Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.249

Test Method: ANSI C63.10

Test Date(s): 2016-08-09

Temperature: 31.0 °C

Humidity: 77.0 %

Atmospheric Pressure: 99.5 kPa

Mode of Operation: Transmission mode

Tested Voltage: 3Vd.c. ("AAA" size battery x 2)

Test Procedure:

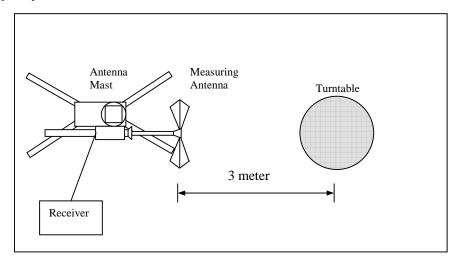
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 - 2013.

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 15.249]:

Frequency Range of	Field Strength of	Field Strength of
Fundamental	Fundamental Emission	Harmonics Emission
	(Average)	(Average)
[MHz]	[mV/m]	[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)
2408.00	Н	-3.5	-11.2	62.3	114.0	-51.7	**51.1	94.0	-42.9
2408.00	V	-3.5	-11.2	60.1	114.0	-53.9	**48.9	94.0	-45.1

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)
2440.00	Н	-3.5	-11.2	62.7	114.0	-51.3	**51.5	94.0	-42.5
2440.00	V	-3.5	-11.2	60.8	114.0	-53.2	**49.6	94.0	-44.4

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)
2480.00	Н	-3.5	-11.2	61.4	114.0	-52.6	**50.2	94.0	-43.8
2480.00	٧	-3.5	-11.2	61.4	114.0	-52.6	**50.2	94.0	-43.8

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

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz VBW = 1MHz

^{**}Duty Cycle Correction = 20Log(0.275) = -11.2dB.



Radiated Emissions (Spurious Emission)

Test Requirement: FCC Part 15 Section 15.249

Test Method: ANSI C63.10

Test Date(s): 2016-08-09

Temperature: 31.0 °C

Humidity: 77.0 %

Atmospheric Pressure: 99.5 kPa

Mode of Operation: Transmission mode

Tested Voltage: 3Vd.c. ("AAA" size battery x 2)

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)
2366.40	Н	-3.0	-11.2	59.8	74.0	-14.2	**48.6	54.0	-5.4
4816.00	Н	1.6	-11.2	54.0	74.0	-20.0	**42.8	54.0	-11.2
7224.00	Н	10.7	-11.2	46.2	74.0	-27.8	**35.0	54.0	-19.0
9632.00	Н	15.5	-11.2	47.4	74.0	-26.6	**36.2	54.0	-17.8
12040.00	Н	18.0	-11.2	48.5	74.0	-25.5	**37.3	54.0	-16.7
14448.00	Н	24.0	-11.2	49.2	74.0	-24.8	**38.0	54.0	-16.0
16856.00	Н	19.1	-11.2	50.1	74.0	-23.9	**38.9	54.0	-15.1
19264.00	Н	46.5	-11.2	51.2	74.0	-22.8	**40.0	54.0	-14.0
21672.00	Н	46.8	-11.2	52.3	74.0	-21.7	**41.1	54.0	-12.9
24080.00	Н	47.6	-11.2	53.5	74.0	-20.5	**42.3	54.0	-11.7
26488.00	Н	48.6	-11.2	54.6	74.0	-19.4	**43.4	54.0	-10.6

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

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz VBW = 1MHz

^{**}Duty Cycle Correction = 20Log(0.275) = -11.2dB.



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)
2366.40	V	-3.0	-11.2	57.0	74.0	-17.0	**45.8	54.0	-8.2
4816.00	V	1.6	-11.2	50.1	74.0	-23.9	**38.9	54.0	-15.1
7224.00	V	10.7	-11.2	46.6	74.0	-27.4	**35.4	54.0	-18.6
9632.00	V	15.5	-11.2	47.6	74.0	-26.4	**36.4	54.0	-17.6
12040.00	V	18.0	-11.2	48.2	74.0	-25.8	**37.0	54.0	-17.0
14448.00	V	24.0	-11.2	49.5	74.0	-24.5	**38.3	54.0	-15.7
16856.00	V	19.1	-11.2	49.8	74.0	-24.2	**38.6	54.0	-15.4
19264.00	V	46.5	-11.2	51.6	74.0	-22.4	**40.4	54.0	-13.6
21672.00	V	46.8	-11.2	52.5	74.0	-21.5	**41.3	54.0	-12.7
24080.00	V	47.6	-11.2	53.6	74.0	-20.4	**42.4	54.0	-11.6
26488.00	V	48.6	-11.2	55.0	74.0	-19.0	**43.8	54.0	-10.2

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

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHzVBW = 1MHz

^{**}Duty Cycle Correction = 20Log(0.275) = -11.2dB.



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)
4880.00	Н	1.6	-11.2	52.3	74.0	-21.7	**41.1	54.0	-12.9
7320.00	Н	10.7	-11.2	46.2	74.0	-27.8	**35.0	54.0	-19.0
9760.00	Н	15.8	-11.2	47.3	74.0	-26.7	**36.1	54.0	-17.9
12200.00	Н	17.9	-11.2	47.5	74.0	-26.5	**36.3	54.0	-17.7
14640.00	Н	25.2	-11.2	49.1	74.0	-24.9	**37.9	54.0	-16.1
17080.00	Н	22.1	-11.2	50.2	74.0	-23.8	**39.0	54.0	-15.0
19520.00	Н	46.5	-11.2	51.3	74.0	-22.7	**40.1	54.0	-13.9
21960.00	Н	47.1	-11.2	52.6	74.0	-21.4	**41.4	54.0	-12.6
24400.00	Н	47.8	-11.2	53.8	74.0	-20.2	**42.6	54.0	-11.4
26840.00	Н	48.6	-11.2	54.9	74.0	-19.1	**43.7	54.0	-10.3

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)
4880.00	V	1.6	-11.2	46.9	74.0	-27.1	**35.7	54.0	-18.3
7320.00	V	10.7	-11.2	46.6	74.0	-27.4	**35.4	54.0	-18.6
9760.00	V	15.8	-11.2	47.8	74.0	-26.2	**36.6	54.0	-17.4
12200.00	V	17.9	-11.2	48.3	74.0	-25.7	**37.1	54.0	-16.9
14640.00	V	25.2	-11.2	48.9	74.0	-25.1	**37.7	54.0	-16.3
17080.00	V	22.1	-11.2	50.6	74.0	-23.4	**39.4	54.0	-14.6
19520.00	V	46.5	-11.2	51.5	74.0	-22.5	**40.3	54.0	-13.7
21960.00	V	47.1	-11.2	52.8	74.0	-21.2	**41.6	54.0	-12.4
24400.00	V	47.8	-11.2	53.0	74.0	-21.0	**41.8	54.0	-12.2
26840.00	V	48.6	-11.2	53.6	74.0	-20.4	**42.4	54.0	-11.6

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

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz VBW = 1MHz

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^{**}Duty Cycle Correction = 20Log(0.275) = -11.2dB.



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)
2507.60	Н	-3.5	-11.2	60.0	74.0	-14.0	**48.8	54.0	-5.2
4960.00	Н	1.7	-11.2	52.9	74.0	-21.1	**41.7	54.0	-12.3
7440.00	Н	10.7	-11.2	46.5	74.0	-27.5	**35.3	54.0	-18.7
9920.00	Н	15.9	-11.2	47.0	74.0	-27.0	**35.8	54.0	-18.2
12400.00	Н	17.6	-11.2	48.4	74.0	-25.6	**37.2	54.0	-16.8
14880.00	Н	24.6	-11.2	49.2	74.0	-24.8	**38.0	54.0	-16.0
17360.00	Н	23.5	-11.2	50.3	74.0	-23.7	**39.1	54.0	-14.9
19840.00	Н	46.6	-11.2	51.6	74.0	-22.4	**40.4	54.0	-13.6
22320.00	Н	47.5	-11.2	52.5	74.0	-21.5	**41.3	54.0	-12.7
24800.00	Н	47.9	-11.2	53.7	74.0	-20.3	**42.5	54.0	-11.5
27280.00	Н	48.7	-11.2	55.2	74.0	-18.8	**44.0	54.0	-10.0

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

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz

VBW = 1MHz

^{**}Duty Cycle Correction = 20Log(0.275) = -11.2dB.



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)
2507.60	V	-3.5	-11.2	59.0	74.0	-15.0	**47.8	54.0	-6.2
4960.00	V	1.7	-11.2	50.2	74.0	-23.8	**39.0	54.0	-15.0
7440.00	V	10.7	-11.2	46.2	74.0	-27.8	**35.0	54.0	-19.0
9920.00	V	15.9	-11.2	46.8	74.0	-27.2	**35.6	54.0	-18.4
12400.00	V	17.6	-11.2	48.3	74.0	-25.7	**37.1	54.0	-16.9
14880.00	V	24.6	-11.2	49.5	74.0	-24.5	**38.3	54.0	-15.7
17360.00	V	23.5	-11.2	50.5	74.0	-23.5	**39.3	54.0	-14.7
19840.00	V	46.6	-11.2	51.8	74.0	-22.2	**40.6	54.0	-13.4
22320.00	V	47.5	-11.2	53.0	74.0	-21.0	**41.8	54.0	-12.2
24800.00	V	47.9	-11.2	53.6	74.0	-20.4	**42.4	54.0	-11.6
27280.00	V	48.7	-11.2	54.9	74.0	-19.1	**43.7	54.0	-10.3

[#] 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(0.275) = -11.2dB.

Note: Field Strength includes Antenna Factor and Cable Loss.

RBW = 1MHz VBW = 1MHz Receiver setting: VBW

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Radiated Emissions (30MHz - 2.4GHz)

Test Requirement: FCC Part 15 Section 15.209

Test Method:

ANSI C63.10

Test Date(s):

Temperature:

Humidity:

Atmospheric Pressure:

Mode of Operation:

ANSI C63.10

2016-07-13

31.0 °C

73.0 %

99.5 kPa

On mode

Tested Voltage: 3Vd.c. ("AAA" 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 (On 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					

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 200Hz

VBW = 200Hz

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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)
36.52	Н	31.2	40.0	-8.8
117.84	Н	22.4	43.5	-21.1
226.20	Н	24.8	46.0	-21.2
353.16	Н	26.7	46.0	-19.3
422.10	Н	28.4	46.0	-17.6
486.36	Н	28.7	46.0	-17.3

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
36.52	V	31.0	40.0	-9.0
117.84	V	22.6	43.5	-20.9
226.20	V	25.3	46.0	-20.7
353.16	V	26.2	46.0	-19.8
422.10	V	28.8	46.0	-17.2
486.36	V	28.9	46.0	-17.1

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz

VBW = 120KHz



Frequency range of Fundamental Emission

Test Requirement: FCC 47 CFR 15.249 Test Method: ANSI C63.10 Clause 6.10

Test Date(s): 2016-08-09 31.0 °C Temperature: 77.0 % Humidity: Atmospheric Pressure: 99.5 kPa

Mode of Operation: Transmission mode

Tested Voltage: 3Vd.c. ("AAA" 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 Frequency range of Fundamental Emission:

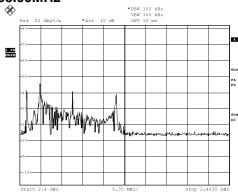
Emilio for Frequency range of	i i diiddiiloiltai Eilliooloii.
Frequency	FCC Limits
[MHz]	[MHz]
2404.40 - 2504.20	2400 – 2483.5



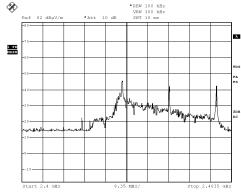
Measurement Data:

Test Result of Frequency Range of Fundamental Emission: PASS

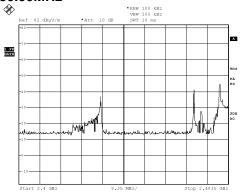
Lowest Frequency - 2408.00MHz



Middle Frequency - 2440.00MHz



Highest Frequency - 2480.00MHz



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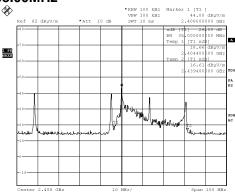
This report is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. Our report is limited to the test samples identified herein. The results set forth in this 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 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



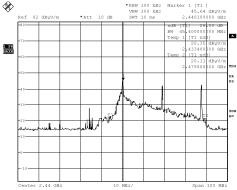
TEST REPORT No: (5216)179-0264 Measurement Data :

Test Result of 26dB Bandwidth of Fundamental Emission: PASS

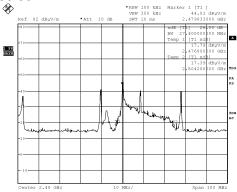
Lowest Frequency - 2408.00MHz



Middle Frequency - 2440.00MHz



Highest Frequency - 2480.00MHz





Duty Cycle Correction During 100msec:

Each function key sends a different series of characters, but each packet period (100msec) never exceeds a series of 25 (1.1msec) pulses. Assuming any combination of short or long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered 25 x (1.1msec) per 100msec = 27.5% duty cycle. Figure A show the characteristics of the pulse train for one of these functions

Remarks:

Duty Cycle Correction = 20Log(0.275) = -11.2dB

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



Center 2.428024 GHz

Measurement Data:

10 ms/



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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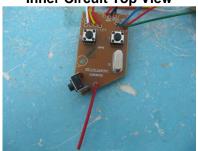


Photographs of EUT

Internal View of the product



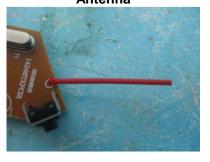
Inner Circuit Top View



Inner Circuit Top View



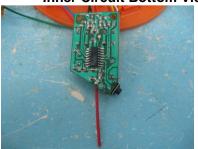
Antenna



Internal View of the product



Inner Circuit Bottom View



Inner Circuit Bottom View



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Measurement of Radiated Emission Test Set Up



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