

TEST REPORT

То:	ROYAL REGENT PRODUCTS (H.K.) LIMITED		То:	-
Attn:	Ray Chen / Coco		Attn:	_
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E-mail:	raychan@royalregenthhk.com /		E-mail:	-
	wtcocoyu@yeah.net			
Folder No.:				
Factory name:				
Location:				
Product:			OUSE DROID J116-HK-01013	
			Sample No:	(5216)250-0435
			Date of Receipt:	September 06, 2016
			Test date:	September 28, 2016 to October 28, 2016
Pleas	se see the exhibit "External Photo"		Test Requested:	FCC Part 15 - 2015
			Test Method:	ANSI C63.10 - 2013
			FCC ID:	2AES5-U116HK01013T
The results g	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>Co</u>	OMPLY	with requirement	of FCC Part 15 Subpart C.
	Authorized	Signat	ure:	
(auh		[a	
Reviewed by: Ke			ved by: Law Man Ki	
Date: November	09, 2016	Date: N	November 09, 2016	

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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 contents.



Test Result Summary

EMISS	EMISSION TEST											
Test requirement: FCC Part 15 - 2015												
Took Condition	Took Mother d	Test	Result									
Test Condition	Test 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											

Report Revision & Sample Re-submit History:



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

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-JUN-2016	28-JUN-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-FEB-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	04-OCT-2016	03-OCT-2017

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:-

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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: SW RC MOUSE DROID

Model Number: U116-HK-01013

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

Rating: 4.5Vd.c. ("AA" size battery x 3)

Description of EUT Operation:

The Equipment Under Test (EUT) is a **ROYAL REGENT PRODUCTS (H.K.) LIMITED.** of Remote Control Transceiver. It is a 6 buttons 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 are being pressed, Modulation by IC, and type is GFSK.

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

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

The transmitter has different control:

- 1. ON/OFF button power on/off control
- 2. Launch button launch missiles and sound control
- 3. Forward / Reverse button forward / reverse control
- 4. Turn left button leftward control
- 5. Turn right button rightward control
- 6. Open door button Door open control

Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna. It is soldered on the PCB. The antenna consists of 4cm 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 Results

Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.249

Test Method:

ANSI C63.10

Test Date(s):

Temperature:

30.0 °C

Humidity:

Atmospheric Pressure:

ANSI C63.10

2016-10-28

30.0 °C

73.0 %

100.1 kPa

Mode of Operation: Transmission mode

Tested Voltage: 4.5Vd.c. ("AA" size battery x 3)

Test Procedure:

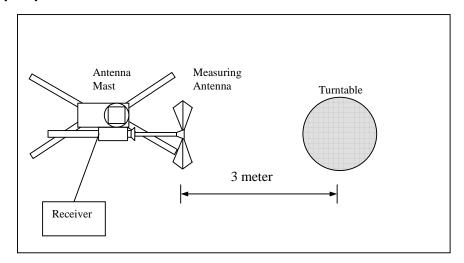
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 - 2013.

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





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)
2408.14	Н	-3.5	-15.9	89.2	114.0	-24.8	**73.3	94.0	-20.7
2408.14	V	-3.5	-15.9	92.8	114.0	-21.2	**76.9	94.0	-17.1

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)
2444.14	Н	-3.5	-15.9	88.7	114.0	-25.3	**72.8	94.0	-21.2
2444.14	V	-3.5	-15.9	91.6	114.0	-22.4	**75.7	94.0	-18.3

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)
2480.14	Н	-3.5	-15.9	87.8	114.0	-26.2	**71.9	94.0	-22.1
2480.14	Н	-3.5	-15.9	90.0	114.0	-24.0	**74.1	94.0	-19.9

[#] 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(0.16) = -15.9dB.

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz

VBW = 1MHz



Radiated Emissions (Spurious Emission)

FCC Part 15 Section 15.249 Test Requirement:

Test Method: ANSI C63.10 Test Date(s): 2016-10-28 Temperature: 30.0 °C Humidity: 73.0 %

Atmospheric Pressure: 100.1 kPa Mode of Operation: Transmission mode

Tested Voltage: 4.5Vd.c. ("AA" 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)
2400.00	Н	-3.5	-15.9	59.2	74.0	-14.8	**43.3	54.0	-10.7
4816.28	Н	1.6	-15.9	50.8	74.0	-23.2	**34.9	54.0	-19.1
7224.42	Н	10.7	-15.9	48.7	74.0	-25.3	**32.8	54.0	-21.2
9632.56	Н	15.5	-15.9	48.0	74.0	-26.0	**32.1	54.0	-21.9
12040.70	Н	18.0	-15.9	51.3	74.0	-22.7	**35.4	54.0	-18.6
14448.84	Н	24.0	-15.9	54.2	74.0	-19.8	**38.3	54.0	-15.7
16856.98	Н	19.1	-15.9	54.1	74.0	-19.9	**38.2	54.0	-15.8
19265.12	Н	46.5	-15.9	62.7	74.0	-11.3	**46.8	54.0	-7.2
21673.26	Н	46.8	-15.9	62.3	74.0	-11.7	**46.4	54.0	-7.6
24081.40	Н	47.6	-15.9	63.2	74.0	-10.8	**47.3	54.0	-6.7
26489.54	Н	48.6	-15.9	64.6	74.0	-9.4	**48.7	54.0	-5.3

[#] 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(0.16) = -15.9dB.



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)
2400.00	V	-3.5	-15.9	60.5	74.0	-13.5	**44.6	54.0	-9.4
4816.28	V	1.6	-15.9	47.0	74.0	-27.0	**31.1	54.0	-22.9
7224.42	V	10.7	-15.9	44.1	74.0	-29.9	**28.2	54.0	-25.8
9632.56	V	15.5	-15.9	49.0	74.0	-25.0	**33.1	54.0	-20.9
12040.70	V	18.0	-15.9	52.6	74.0	-21.4	**36.7	54.0	-17.3
14448.84	V	24.0	-15.9	53.6	74.0	-20.4	**37.7	54.0	-16.3
16856.98	V	19.1	-15.9	54.6	74.0	-19.4	**38.7	54.0	-15.3
19265.12	V	46.5	-15.9	63.3	74.0	-10.7	**47.4	54.0	-6.6
21673.26	V	46.8	-15.9	62.7	74.0	-11.3	**46.8	54.0	-7.2
24081.40	V	47.6	-15.9	63.8	74.0	-10.2	**47.9	54.0	-6.1
26489.54	V	48.6	-15.9	64.5	74.0	-9.5	**48.6	54.0	-5.4

[#] 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(0.16) = -15.9dB.

Note: Field Strength includes Antenna Factor and Cable Loss.

RBW = 1MHz Receiver setting:

VBW = 1MHz



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)
4888.28	Н	1.6	-15.9	48.4	74.0	-25.6	**32.5	54.0	-21.5
7332.42	Н	10.7	-15.9	43.8	74.0	-30.2	**27.9	54.0	-26.1
9776.56	Н	15.8	-15.9	49.8	74.0	-24.2	**33.9	54.0	-20.1
12220.70	Н	17.9	-15.9	49.4	74.0	-24.6	**33.5	54.0	-20.5
14664.84	Н	25.2	-15.9	53.7	74.0	-20.3	**37.8	54.0	-16.2
17108.98	Н	22.1	-15.9	57.6	74.0	-16.4	**41.7	54.0	-12.3
19553.12	Н	46.5	-15.9	62.3	74.0	-11.7	**46.4	54.0	-7.6
21997.26	Н	47.1	-15.9	63.1	74.0	-10.9	**47.2	54.0	-6.8
24441.40	Н	47.8	-15.9	63.9	74.0	-10.1	**48.0	54.0	-6.0
26885.54	Н	48.6	-15.9	64.6	74.0	-9.4	**48.7	54.0	-5.3

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)
4888.28	V	1.6	-15.9	46.4	74.0	-27.6	**30.5	54.0	-23.5
7332.42	V	10.7	-15.9	46.4	74.0	-27.6	**30.5	54.0	-23.5
9776.56	V	15.8	-15.9	48.6	74.0	-25.4	**32.7	54.0	-21.3
12220.70	V	17.9	-15.9	48.6	74.0	-25.4	**32.7	54.0	-21.3
14664.84	V	25.2	-15.9	55.1	74.0	-18.9	**39.2	54.0	-14.8
17108.98	٧	22.1	-15.9	58.1	74.0	-15.9	**42.2	54.0	-11.8
19553.12	V	46.5	-15.9	62.2	74.0	-11.8	**46.3	54.0	-7.7
21997.26	V	47.1	-15.9	62.6	74.0	-11.4	**46.7	54.0	-7.3
24441.40	V	47.8	-15.9	63.8	74.0	-10.2	**47.9	54.0	-6.1
26885.54	V	48.6	-15.9	64.7	74.0	-9.3	**48.8	54.0	-5.2

[#] 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(0.16) = -15.9dB.

Note: Field Strength includes Antenna Factor and Cable Loss.

RBW = 1MHz VBW = 1MHz Receiver setting:



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)
2483.50	Н	-3.5	-15.9	63.0	74.0	-11.0	**47.1	54.0	-6.9
4960.28	Н	1.7	-15.9	48.7	74.0	-25.3	**32.8	54.0	-21.2
7440.42	Н	10.7	-15.9	45.4	74.0	-28.6	**29.5	54.0	-24.5
9920.56	Н	15.9	-15.9	46.9	74.0	-27.1	**31.0	54.0	-23.0
12400.70	Н	17.6	-15.9	48.5	74.0	-25.5	**32.6	54.0	-21.4
14880.84	Н	24.6	-15.9	55.5	74.0	-18.5	**39.6	54.0	-14.4
17360.98	Н	23.5	-15.9	59.2	74.0	-14.8	**43.3	54.0	-10.7
19841.12	Н	46.6	-15.9	62.2	74.0	-11.8	**46.3	54.0	-7.7
22321.26	Н	47.1	-15.9	62.9	74.0	-11.1	**47.0	54.0	-7.0
24801.40	Н	47.8	-15.9	63.8	74.0	-10.2	**47.9	54.0	-6.1
27281.54	Н	48.6	-15.9	64.4	74.0	-9.6	**48.5	54.0	-5.5

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)
2483.50	V	-3.5	-15.9	65.3	74.0	-8.7	**49.4	54.0	-4.6
4960.28	V	1.7	-15.9	47.2	74.0	-26.8	**31.3	54.0	-22.7
7440.42	V	10.7	-15.9	45.6	74.0	-28.4	**29.7	54.0	-24.3
9920.56	V	15.9	-15.9	47.0	74.0	-27.0	**31.1	54.0	-22.9
12400.70	V	17.6	-15.9	47.7	74.0	-26.3	**31.8	54.0	-22.2
14880.84	V	24.6	-15.9	55.8	74.0	-18.2	**39.9	54.0	-14.1
17360.98	V	23.5	-15.9	59.0	74.0	-15.0	**43.1	54.0	-10.9
19841.12	V	46.6	-15.9	61.8	74.0	-12.2	**45.9	54.0	-8.1
22321.26	V	47.1	-15.9	62.5	74.0	-11.5	**46.6	54.0	-7.4
24801.40	V	47.8	-15.9	63.3	74.0	-10.7	**47.4	54.0	-6.6
27281.54	V	48.6	-15.9	64.6	74.0	-9.4	**48.7	54.0	-5.3

[#] 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(0.16) = -15.9dB.



Radiated Emissions (30MHz - 2.4GHz)

Test Requirement: FCC Part 15 Section 15.209

Test Method: ANSI C63.10
Test Date(s): 2016-09-28

Temperature: 29.0 °C Humidity: 71.0 % Atmospheric Pressure: 99.7 kPa Mode of Operation: On mode

Tested Voltage: 4.5Vd.c. ("AA" size battery x 3)

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

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

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 200Hz

VBW = 200Hz



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)
37.52	Н	28.0	40.0	-12.0
137.72	Н	21.7	43.5	-21.8
211.00	Н	21.0	43.5	-22.5
302.36	Н	22.4	46.0	-23.6
326.32	Н	23.8	46.0	-22.2
450.04	Н	25.6	46.0	-20.4

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
37.52	V	28.2	40.0	-11.8
137.72	V	21.4	43.5	-22.1
211.00	V	20.3	43.5	-23.2
302.36	V	22.6	46.0	-23.4
326.32	V	23.5	46.0	-22.5
450.04	V	25.8	46.0	-20.2

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): 2016-10-28
Temperature: 30.0 °C
Humidity: 73.0 %
Atmospheric Pressure: 100.1 kPa

Mode of Operation: Transmission mode

Tested Voltage: 4.5Vd.c. ("AA" 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:

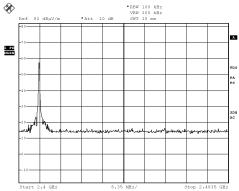
Frequency	FCC Limits			
[MHz]	[MHz]			
2407.70 - 2481.42	2400 – 2483.5			



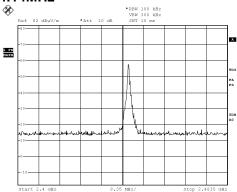
Measurement Data:

Test Result of Frequency Range of Fundamental Emission: PASS

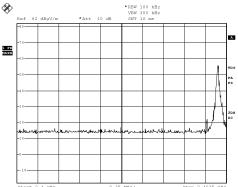
Lowest Frequency - 2408.14MHz



Middle Frequency - 2444.14MHz



Highest Frequency - 2480.14MHz

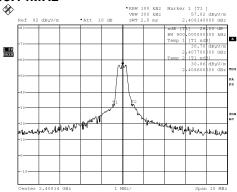




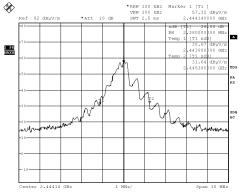
TEST REPORT No: (5216)250-0435 Measurement Data :

Test Result of 26dB Bandwidth of Fundamental Emission: PASS

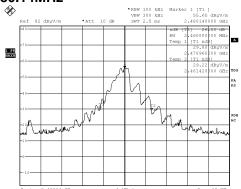
Lowest Frequency - 2408.14MHz



Middle Frequency - 2444.14MHz



Highest Frequency - 2480.14MHz





Duty Cycle Correction During 100msec:

Each function key sends a different series of characters, but each packet period (100msec) never exceeds a series of 16 pulses (1 msec). Assuming any combination of short or long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered 16 x (1 msec) per 100msec = 16% duty cycle. Figure A shows the characteristics of the pulse train for one of these functions

Remarks:

Duty Cycle Correction = 20Log(0.16) = -15.9dB

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

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Center 2.42 GHz

Measurement Data:

10 ms/

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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 *****