



Report No.: FCC1909218 File Reference No.: 2019-10-08

Applicant: Hyperkin, Inc.

Product: Wireless Bluetooth Controller for N64- Hyperkin 2.4G

Model No.: M07389

Brand Name: Hyperkin

Test Standards: FCC Part 15.249

Test Result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C,

Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved Ry

Jack Chung

Jack Chung

Manager TIFICAL

Dated: October 08, 2019

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

Report No.: FCC1909218 Page 2 of 47

Date: 2019-10-08



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) — Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

Date: 2019-10-08



Test Report Conclusion

Content 1.0 General Details 4 4 1.1 Test Lab Details. 1.2 Applicant Details. 4 1.3 Description of EUT 1.4 Submitted Sample.... 4 1.5 Test Duration. 5 1.6 Test Uncertainty. 1.7 Test By..... 5 2.0 List of Measurement Equipment..... 7 3.0 Technical Details..... Summary of Test Results.... 3.1 7 3.2 7 Test Standards.... 4.0 EUT Modification. 7 Power Line Conducted Emission Test. 5.0 5.1 Schematics of the Test. 8 5 2 Test Method and Test Procedure. 8 5.3 Configuration of the EUT..... 8 5.4 EUT Operating Condition... Conducted Emission Limit. 5.5 9 5.6 Test Result. 6.0 Radiated Emission test. 12 Test Method and Test Procedure. 6.1 12 6.2 Configuration of the EUT.... 12 6.3 EUT Operation Condition.... 12 6.4 Radiated Emission Limit. 13 6.5 Test Result. 14 7.0 Band Edge 22 7.1 Test Method and Test Procedure. 22 7.2 Radiated Test Setup. 22 7.3 Configuration of the EUT..... 22 7.4 EUT Operating Condition.... 22 7.5 Band Edge Limit. 22 Band Edge Test Result. 7.6 23 8.0 Antenna Requirement. 27 9.0 20dB bandwidth measurement. 28 FCC ID Label..... 10.0 37

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11.0

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Photo of Test Setup and EUT View.

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Report No.: FCC1909218 Page 4 of 47

Date: 2019-10-08



1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Hyperkin, Inc.

Address: 1939 West Mission Blvd. Pomona, CA 91766, USA

Telephone: -Fax: --

1.3 Description of EUT

Product: Wireless Bluetooth Controller for N64- Hyperkin 2.4G

Manufacturer: QS POWER TECHNOLOGY CO., LTD

Address: 2F No.101, Xiangyuandong Road, Shangtun Village, LiaoBu Town, Dongguan

City, Guang Dong, China

Brand Name: Hyperkin Model Number: M07389 Additional Model Name N/A

Input Voltage: DC3.7V, Built-in DC3.7V, 500mAh Li-ion battery

Modulation Type: GFSK, $\pi/4$ -DQPSK, 8DPSK

Operation Frequency 2402-2480MHz

Channel Separation 1MHz

Antenna Designation PCB antenna with gain 0dBi Max

1.4 Submitted Sample

1 Sample

Report No.: FCC1909218 Page 5 of 47

Date: 2019-10-08



1.5 Test Duration

209-09-29 to 2019-10-08

1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Conducted Emissions Uncertainty = 3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Page 6 of 47 Report No.: FCC1909218



2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2019-06-21	2020-06-20
LISN	R&S	EZH3-Z5	100294	2019-06-21	2020-06-20
LISN	R&S	EZH3-Z5	100253	2019-06-21	2020-06-20
Ultra Broadband ANT	R&S	HL562	100157	2019-06-21	2020-06-20
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2019-06-21	2020-06-20
Loop Antenna	EMCO	6507	00078608	2018-06-25	2021-06-24
Spectrum	R&S	FSIQ26	100292	2019-06-21	2020-06-20
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2019-06-21	2021-06-20
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08
Power meter	Anritsu	ML2487A	6K00003613	2019-08-22	2020-08-21
Power sensor	Anritsu	MA2491A	32263	2019-08-22	2020-08-21
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03
9*6*6 Anechoic			N/A	2018-02-07	2021-02-06
EMI Test Receiver	RS	ESVB	826156/011	2019-06-21	2020-06-20
EMI Test Receiver	RS	ESH3	860904/006	2019-06-21	2020-06-20
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2019-06-21	2020-06-20
Spectrum	HP/Agilent	E4407B	MY50441392	2019-06-21	2020-06-20
Spectrum	RS	FSP	1164.4391.38	2019-01-20	2020-01-19
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA		2019-06-21	2020-06-20
RF Cable	Zhengdi	7m		2019-06-21	2020-06-20
RF Switch	EM	EMSW18	060391	2019-06-21	2020-06-20
Pre-Amplifier	Schwarebeck	BBV9743	#218	2019-06-21	2020-06-20
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2019-06-21	2020-06-20
LISN	SCHAFFNER	NNB42	00012	2019-01-08	2020-01-07

Report No.: FCC1909218 Page 7 of 47

Date: 2019-10-08



3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4:2014 and ANSI C63.10:2013

4.0 EUT Modification

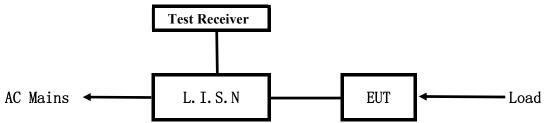
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

Date: 2019-10-08



5. Power Line Conducted Emission Test

5.1 Schematics of the test

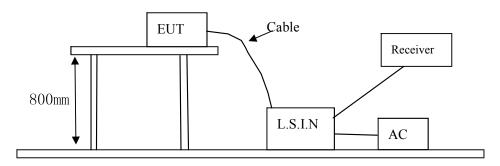


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4-2014.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

One channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
Wireless Bluetooth Controller	QS POWER TECHNOLOGY	M07389	2ARNF-M07389
for N64- Hyperkin 2.4G	CO., LTD	1010/369	ZAKINF-IVIU/309

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Report No.: FCC1909218 Page 9 of 47

Date: 2019-10-08



B. Internal Device

Device	Manufacturer	Model	FCC ID/SDOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/SDOC/DOC
Power Supply	BSY	BSY01J30500150V U1	Input:100-240V~,50/60Hz,
			0.2A,;Output: DC5V, 1.5A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2014

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.107 and 15.207

Engage av (MHz)	Class A Lir	nits (dB µ V)	Class B Limits (dB µ V)		
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
$0.15 \sim 0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*	
$0.50 \sim 5.00$	73.0	60.0	56.0	46.0	
$5.00 \sim 30.00$	73.0	60.0	60.0	50.0	

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results Pass

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Date: 2019-10-08



A: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

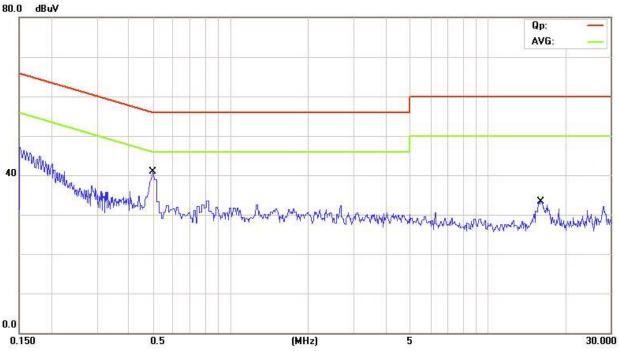
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Charging and Keep Transmitting

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∀	dB	Detector	Comment
1	*	0.4948	27.70	9.77	37.47	56.09	-18.62	QP	
2		0.4948	13.50	9.77	23.27	46.09	-22.82	AVG	
3		16.0586	3.20	10.44	13.64	60.00	-46.36	QP	
4		16.0586	-8.00	10.44	2.44	50.00	-47.56	AVG	

Report No.: FCC1909218 Page 11 of 47

Date: 2019-10-08



B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

EUT Operating Environment

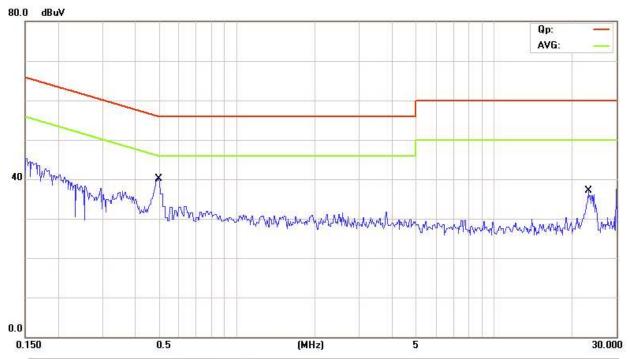
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Charging and Keep Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBu∨	dBu∀	dB	Detector	Comment
1		0.4962	27.70	9.77	37.47	56.06	-18.59	QP	
2	*	0.4962	20.80	9.77	30.57	46.06	-15.49	AVG	
3		23.3128	19.80	10.89	30.69	60.00	-29.31	QP	
4		23.3128	6.50	10.89	17.39	50.00	-32.61	AVG	

Report No.: FCC1909218 Page 12 of 47

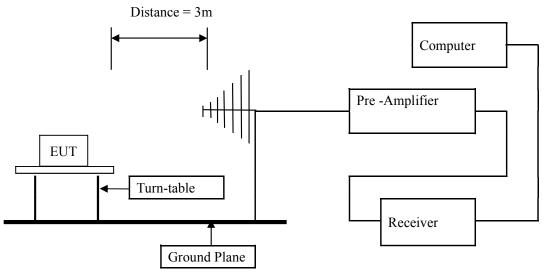
Date: 2019-10-08



6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup



- 6.2 Configuration of The EUT
 Same as section 5.3 of this report
- 6.3 EUT Operating Condition
 Same as section 5.4 of this report.

Report No.: FCC1909218 Page 13 of 47

Date: 2019-10-08



6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency	Field Stre	ength of Fundame	ental (3m)	Field S	trength of Harmo	nics (3m)
(MHz)	mV/m	dBuV/m		uV/m	dBuV/m	
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note:

- 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)	
30-88	3	40.0	
88-216	3	43.5	
216-960	3	46.0	
Above 960	3	54.0	

Note:

- 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
- 5. Battery full charged were used during tests.
- 6. The EUT was tested in GFSK, $\pi/4$ -DQPSK, 8-DPSK modulation, and found the GFSK modulation is the worst case.

Page 14 of 47

Date: 2019-10-08

Report No.: FCC1909218



6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

Product:	Wireless Bluetooth Controller for	Test Mode:	Keep transmitting-Low Channel
	N64- Hyperkin 2.4G		
Test Item:	Fundamental Radiated Emission	Temperature:	25℃
	Data		
Test Voltage:	DC3.7V	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2402	92.66 (PK)	Н	114/94	-1.34
2402	80.97 (PK)	V	114/94	-13.03
4804	50.88 (PK)	Н	74/54	-3.12
4804	49.98 (PK)	V	74/54	-4.02
7206		H/V	74/54	
9608		H/V	74/54	
12010		H/V	74/54	
14412		H/V	74/54	
16814		H/V	74/54	
19216		H/V	74/54	
21618		H/V	74/54	
24020		H/V	74/54	

Note: (1) PK= Peak, AV= Average

- (2) Emission Level = Reading Level + Antenna Factor + Cable Loss Pre-Amplifier
- (3)Margin=Emission-Limits
- (4)According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting

Note: the final peak measurement result less than the AV limit. No necessary to take down the final AV measurement result

Page 15 of 47

Report No.: FCC1909218

Date: 2019-10-08



Product:	Wireless Bluetooth Controller for	Test Mode:	Keep transmitting-Middle Channel
	N64- Hyperkin 2.4G		
Test Item:	Fundamental Radiated Emission	Temperature:	25℃
	Data		
Test Voltage:	DC3.7V	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2441	92.52 (PK)	Н	114/94	-1.48
2441	82.14 (PK)	V	114/94	-11.86
4882	50.64 (PK)	Н	74/54	-3.36
4882	48.13 (PK)	V	74/54	-5.87
7323		H/V	74/54	
9764		H/V	74/54	
12205		H/V	74/54	
14646		H/V	74/54	
17087		H/V	74/54	
19528		H/V	74/54	
21969		H/V	74/54	
24410		H/V	74/54	

Note: (1) PK= Peak, AV= Average

- (2) Emission Level = Reading Level + Antenna Factor + Cable Loss Pre-Amplifier
- (3)Margin=Emission-Limits
- (4)According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting

Note: the final peak measurement result less than the AV limit. No necessary to take down the final AV measurement result

Page 16 of 47

Report No.: FCC1909218

Date: 2019-10-08



Product:	Wireless Bluetooth Controller for	Test Mode:	Keep transmitting-High Channel
	N64- Hyperkin 2.4G		
Test Item:	Fundamental Radiated Emission	Temperature:	25℃
	Data		
Test Voltage:	DC3.7V	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2480	93.08 (PK)	Н	114/94	-0.92
2480	81.82 (PK)	V	114/94	-12.18
4960	49.80 (PK)	Н	74/54	-4.20
4960	47.84 (PK)	V	74/54	-6.16
7440		Н	74/54	
7440		V	74/54	
9920		H/V	74/54	
12400		H/V	74/54	
14880		H/V	74/54	
17360		H/V	74/54	
19840		H/V	74/54	
22320		H/V	74/54	
24800		H/V	74/54	

Note: (1) PK= Peak, AV= Average

- (2) Emission Level = Reading Level + Antenna Factor + Cable Loss Pre-Amplifier
- (3)Margin=Emission-Limits
- (4)According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting

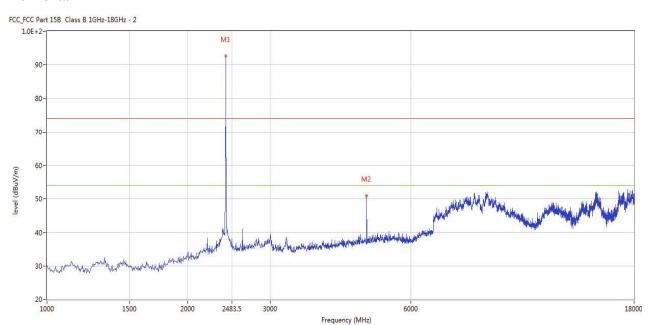
Note: the final peak measurement result less than the AV limit. No necessary to take down the final AV measurement result

Date: 2019-10-08



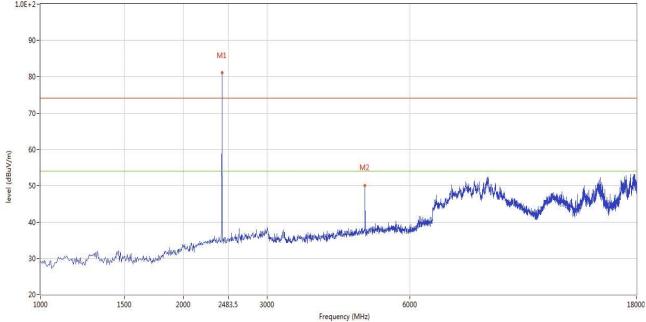
Please refer to the following test plots for details: Low Channel

Horizontal



Vertical





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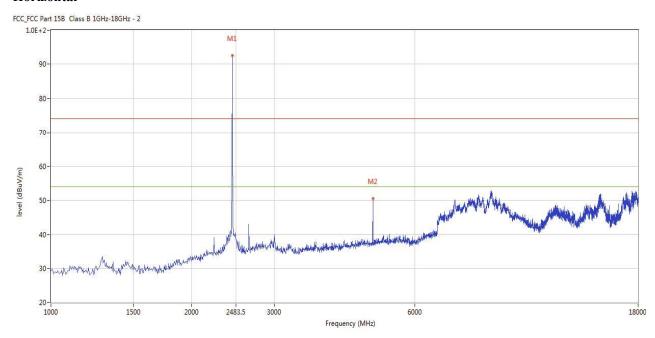
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Date: 2019-10-08

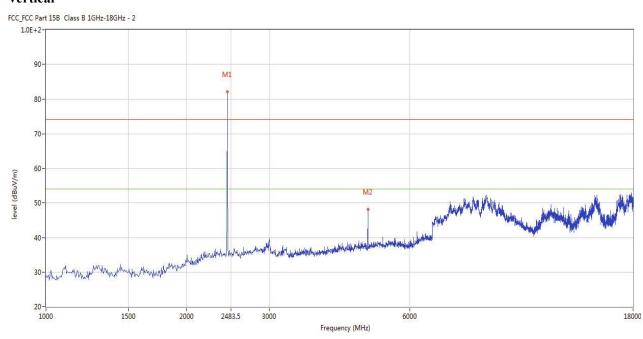


Please refer to the following test plots for details: Middle Channel

Horizontal



Vertical



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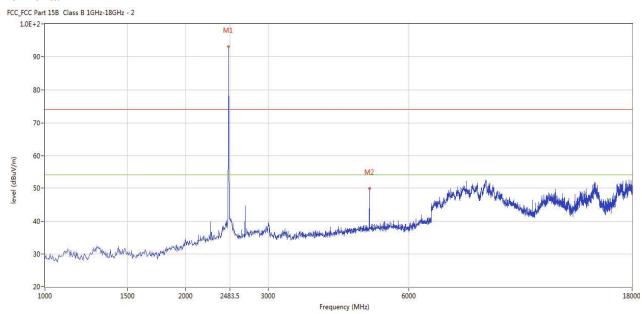
In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.

Date: 2019-10-08

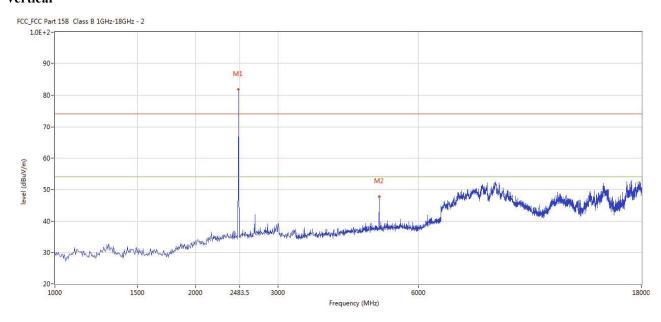


Please refer to the following test plots for details: High Channel

Horizontal



Vertical



For emission above 18GHz, It is only the floor noise. No necessary to take down.

Report No.: FCC1909218 Page 20 of 47

Date: 2019-10-08



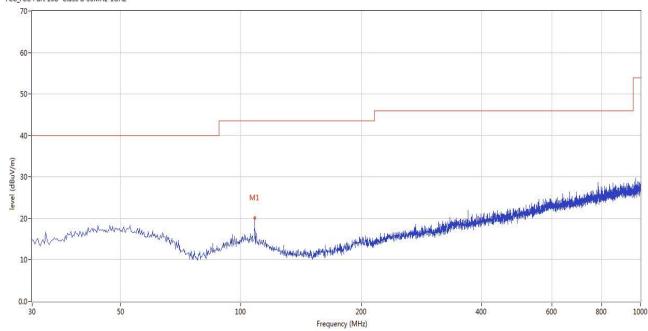
B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency	Results	Factor (dB)	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(o)	(cm)		
1	108.308	20.10	-13.43	43.5	-23.40	Peak	106.00	100	Н	Pass

Report No.: FCC1909218 Page 21 of 47

Date: 2019-10-08

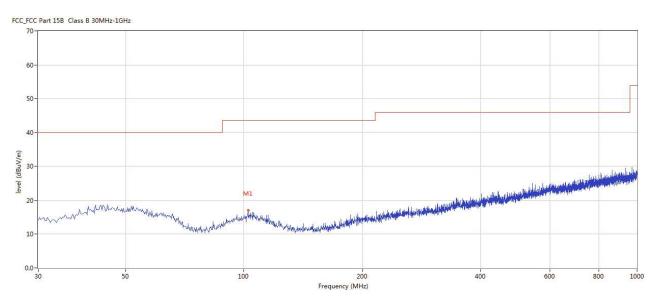


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequen	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	cy (MHz)	(dBuV/m	(dB)	(dBuV/m	Limit			(cm)		
))	(dB)					
1	102.489	17.11	-13.41	43.5	-26.39	Peak	24.00	100	V	Pass

Page 22 of 47

Report No.: FCC1909218

Date: 2019-10-08

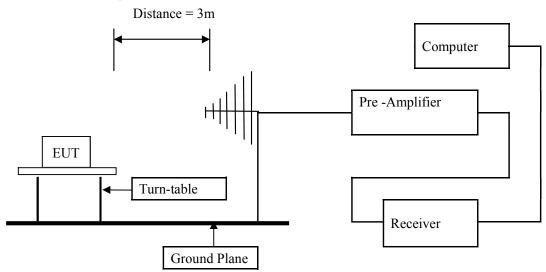


7. Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz,VBW=3MHz and Peak detector used
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7. 2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

The report refers only to the sample tested and does not apply to the bulk.

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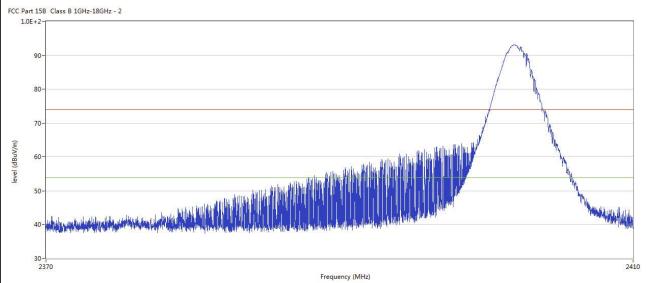
Report No.: FCC1909218 Page 23 of 47

Date: 2019-10-08



7.6 Test Result

Product:	Wireless Bluetooth Controller for N64- Hyperkin 2.4G	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

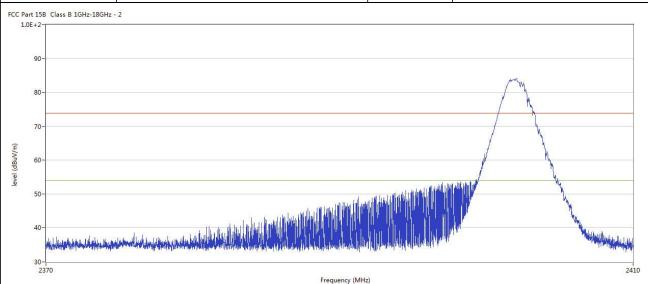


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2400	66.60	-3.57	74.0	-7.40	Peak	347.00	100	Н	Pass
1*	2400	50.12	-3.57	54.0	-3.88	AV	347.00	100	Н	Pass
2	2390	56.84	-3.53	74.0	-17.16	Peak	342.00	100	Н	Pass
2*	2390	39.72	-3.53	54.0	-14.28	AV	342.00	100	Н	Pass

Report No.: FCC1909218 Page 24 of 47



Product:	Wireless Bluetooth Controller for N64- Hyperkin 2.4G	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

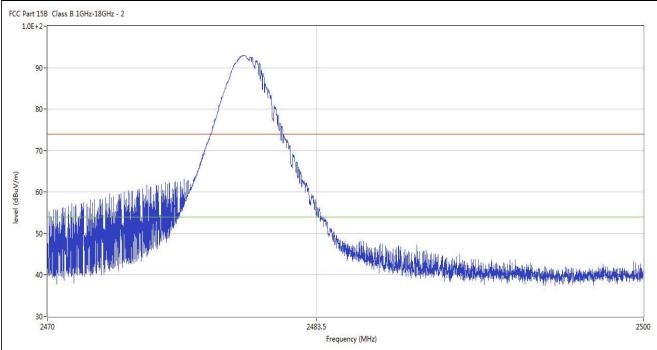


No	0.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1		2400	60.11	-3.57	74.0	-13.89	Peak	20.00	100	V	Pass
1*	k	2400	44.25	-3.57	54.0	-9.75	AV	20.00	100	V	Pass
2		2390	47.64	-3.53	54.0	-6.36	Peak	110.00	100	V	Pass

Report No.: FCC1909218 Page 25 of 47



Product:	Wireless Bluetooth Controller for N64- Hyperkin 2.4G	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



	No.	Frequency	Results	Factor (dB)	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(o)	(cm)		
	1	2483.5	56.43	-3.57	74.0	-17.57	Peak	307.00	100	Н	Pass
	1*	2483.5	40.59	-3.57	54.0	-13.41	AV	307.00	100	Н	Pass
ľ			Į.				I	I	I		

Page 26 of 47

Report No.: FCC1909218

Date: 2019-10-08



	Product:	Wire		etooth Contr Iyperkin 2.4		Detec	tor	Vertical				
	Mode		Keeping	g Transmitti	ng	Test Vol	ltage		DC3.7V			
T	emperature		24	4 deg. C,		Humic	lity	56% RH				
Γ	Test Result:			Pass								
	1 158 Class B 1GHz-18G E+2- 90- 80- 70- 60- 2470	Hz - 2		A MANAGEMENT OF THE PROPERTY O	2483.5	harring of which had	a often after the second of the second	d handran da handra d	and the second second second	2500		
					Frequency (N	MHz)						
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict		
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)				
1	2483.5	47.98	-3.57	54.0	-6.02	Peak	90.00	100	V	Pass		

Note: The PK emission level less than the AV limit. No necessary to record the AV emission level.

Remark: For Restricted band test, only the worst case was reported.

Report No.: FCC1909218 Page 27 of 47

Date: 2019-10-08



8.0 Antenna Requirement

Applicable Standard

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna. The antenna gain is 0dBi Max. It fulfills the requirement of this section. Test Result: Pass

Page 28 of 47

Report No.: FCC1909218



Product:		luetooth Co: - Hyperkin 2		r	Test Mo	de:		Keep t	ransmittin	g	
Mode		GFSK			Test Volt	age		D	C3.7V		
Temperature		24 deg. C,			Humidi		56% RH				
Test Result:		Pass			Detecto	or			PK		
20dB Bandwidth		0.83MHz			-						
Ref Lvl 10 dBm		-0. 29.659318	41 dB 864 kHz	RE VE SW	BW 100		RF Un	Att it	20 dB dBm	ı	
0			2		•	1 [T1 1 [T1]	-18 2.40155 -0 9.65931	.41 dB	Α	
-10 -20 —D1 -17	.89 dBm	1	, ~		√ 1	2 [Т1]	2.40181	.11 dBm		
1 MAX						<u> </u>				1MA	
-40								/			
-50 <mark>m ₩⁴५√५</mark> ,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						\W	- W	Murady		
-60											
-70											
-80											
-90LCenter 2	2.402 GHz		300	kHz/	1		<u> </u>	Spa	ın 3 MHz		

Page 29 of 47

Report No.: FCC1909218

Date: 2019-10-08



Product:	Wire		tooth Con yperkin 2	ntroller for .4G		Т	est Mode	e:		Keep	transmitti	ng	
Mode		(GFSK			Т	est Voltag	ge		I	OC3.7V		
Temperature		24	deg. C,]	Humidity	7		5	66% RH		
Test Result:			Pass				Detector		PK				
20dB Bandwidth	0.83MHz												
Ref Lv 10 dB:		Delta 1		.68 dB 864 kHz	VI	BW BW WT	30 k 100 k 8.5 m	Hz		? Att nit	20 dB dBm	ı	
0				2			V ₁	[T1]		-17 2.44055	.68 dBm	A	
-10					M	\	∇ 2	[T1]	82	9.65931 2	864 kHz		
—D1 -1	7.48 dBm		1				<u></u>			2.44081	062 GHz		
1MAX		\wedge	\mathcal{N}				~\\\\					1MA	
-30 -40	\wedge						,			Λ			
-50 <u>uMMahu</u> l								\	M	<i>Y</i>	بينامين		
-60										v			
-70													
-80													
-90 Center													

29.SEP.2019 16:54:22

Date:

Page 30 of 47

Report No.: FCC1909218



Product:	Wire		tooth Con yperkin 2	troller for .4G		Test Mo		ng				
Mode		(GFSK			Test Volt	age		I	DC3.7V		
Temperature		24	deg. C,			Humidi	ty					
Test Result:			Pass			Detecto	or	PK				
20dB Bandwidth		0.8	18MHz									
Ref Lv.		Delta 1		.25 dB 055 kHz	V	30 3W 100 WT 8.5			F Att	20 dB dBm		
				2		•	l [T1]	-15 2.47956	.65 dBm	Α	
-10					m	△			-0 7.63527 4	.25 dB 055 kHz .10 dBm		
	5.9 dBm-								2.47981	062 GHz		
1MAX		<u> </u>	~								1MA	
-30 -40	Α.	7						4.	Δ			
-50 <mark>mml</mark>	um V	W							Ly Lu	wullus.		
-60												
-70												
-80												
-90 <u></u>	2.48 GH			200	kHz/					n 3 MHz		

Page 31 of 47

Report No.: FCC1909218



Product:	W		uetooth Co Hyperkin	ontroller fo 2.4G	or	To	est Mode:		Keep tran	nsmitting		
Mode		π	/4-DQPSk	ζ		Те	est Voltage		DC3	5.7V		
Temperature		2	24 deg. C,			I	Humidity	56% RH				
Test Result:			Pass				Detector	PK				
0dB Bandwidth	0.83MHz								-	_		
Ref Lvl 10 dBm		Delta 1		.43 dB	VI	BW BW VT	30 k 100 k 8.5 m	Hz	F Att	20 dB	n	
10		0.2.3		2			▼ 1	[T1]	-19 2.40155	.70 dBm	A	
-10					m		^ 1 ▽ 2	[T1] 82	-(9.65931	.43 dB 864 kHz	:	
-20 -D1 -19.5	3 dBm		1	ر _ا	\	5	Λ		2.40181	062 GHz		
1MAX -30		Λ									1M	
-40	٨							h				
-50		كمر							/\u			
-60									\\\	Mu	<u>l</u>	
-70												
-80												
Center 2.4	402 GI	Iz		300	kHz/	Į			Spa	an 3 MHz	4 :	

Page 32 of 47

Report No.: FCC1909218



Product:	W	N64- l	etooth Cor Hyperkin 2	2.4G		Test Mo		Keep transmitting DC3.7V					
Mode			4-DQPSK			Test Vol							
Temperature Test Result:		2	Pass			Humid Detect		56% RH PK					
20dB Bandwidth			0.83MHz				.01	-					
2005 Ballowidili		Delta 1			RBW		0 kH	lz Ri	- F Att	- 20 d	B		
Ref Lvl				37 dB	VBW		0 kH				-		
10 dBm		829	0.659318	64 kHz	SWI	8.	5 ms	. Ur	nit	d	.Bm		
10						Τ	V 1	F 00 1 3	1.0	00 1			
0				2			, T		2.44055	.92 a 812 G	Hz A		
				\bigwedge			1	[T1] 82	-(9.65931	.37 d 864 k			
-10				J W	$^{\wedge}$		v ₂	[T1]	1	.37 d	Bm		
D1 -18.6	63 dPm		1	/	0 (\\\1			2.44081	062 G	Hz		
-20	JJ abili		~ \			W.					1M		
-30		\wedge									IM		
-40	^						V		4				
لمان	m/ Jan								\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
-50 -50									ખ	Mary	h.M		
-60											-		
-70											_		
-80													
-90 Center 2.	111 C	J -2		300	kHz/				Cr.	n 3 M	u z		
Date: 30			:23:44	300	VII7/				၁ ပု င	M C 111	114		

Page 33 of 47

Report No.: FCC1909218



	roduct:	W	N64- l	Hyperkin 2				est Mode:		Keep transmitting DC3.7V					
	Mode			4-DQPSK				est Voltage							
	nperature t Result:		2	24 deg. C,				Humidity Detector		56% RH					
	Bandwidth			Pass 0.83MHz			-			PK					
20ub	Danuwium		Delta 1			R	BW	30 k	H 7	RF Att	20 dB				
(%)	Ref Lvl		DCICC I		62 dB		BW	100 k		111 1100	20 ab				
·	10 dBm		829	9.659318	864 kHz	S	WT	8.5 m	.s	Unit	dBm	1			
10					_			v ₁	[T1]	-1	7.61 dBm				
					X					2.4795	5812 GHz	Α			
0					\wedge			<u>^</u> 1	[T1]	_	0.62 dB				
					/ W	$^{\prime}$	٠	V 2		829.6593	1864 kHz				
-10				/	<u></u>	V	4	<u>*2</u>	[T1]	2.47983	2.51 dBm 1062 GHz				
	—D1 −17.	49 dBm		1				\bigwedge_{-}^{1}		2.4790.	1002 3112				
-20	1MAX			\sim				γ √				1MA			
-30			\wedge					\vee_{\downarrow}							
		>							h/						
-40	Lunder	Jul 2	V						ſ,	M / W	na na ma				
-50										, , , , , , , , , , , , , , , , , , ,	An a fam. Other				
-60															
-70															
-80															
-90															
	Center 2	.48 GH	Z		300	kHz/				Spa	an 3 MHz				
Date:	: 30	SEP.2	019 10	:28:01											

Page 34 of 47

Report No.: FCC1909218



Product:	W		uetooth Co Hyperkin	ontroller fo 2.4G	r	Т	est Mode:		Keep tran	nsmitting			
Mode			8DPSK			Тє	est Voltage		DC3	.7V			
Temperature		2	24 deg. C,			I	Humidity		56% RH				
Test Result:			Pass				Detector	PK					
0dB Bandwidth		().824MHz	<u> </u>						-			
Ref Lvl 10 dBm		Delta 1		.79 dB	VI	BW BW WT	30 k 100 k 8.5 m	Hz	F Att	20 dB dBr	n		
10 abii		023	0.04729	+ 3 9 KIIZ		, v T	0. 5 m	[T1]	_1(. 19 dBn]		
0				2			Τ.		2.40156		A		
					M		▲ 1	[T1] 8.	-(23.64729	1.79 dB 1459 kHz			
-10			1			L	Λ¹	<u> </u>	2.40181	. 11 GDII			
1MAX	6 dBm	Λ	N				W N				1м		
-30								h					
-40		and and						W	1/_q				
WWW MAN									\m	M	\		
-60													
-70													
-80													
-90 Center 2.	402 GI	Hz		300	kHz/				Spa	ın 3 MHz	<u>]</u>		

Page 35 of 47

Report No.: FCC1909218



Product:	W	N64- l	Hyperkin 2	ntroller for 2.4G			est Mode:		k	Keep trar		ing	
Mode			8DPSK				est Voltage			DC3			
Temperature		2	4 deg. C,				Humidity			56%			
Test Result:			Pass				Detector			Pl	ζ		
20dB Bandwidth	0.824MHz												
(\$)	Delta 1 [T1]						30 k		RF	Att	20	dB	
Ref Lvl	-0.98 dB 823.64729459 kHz						100 k						
10 dBm		823	3.647294	159 kHz	S	WT	8.5 m	S	Uni	t		dBm	1
				2			v ₁	[T1]	2	-18	.33	dBm GHz	A
0					M		1 ∇2		823	-0 .64729	.98 459	dB kHz	
-10			1			7	<u>√2</u>	<u>[T1]</u>	2	.44081	.34 062	dBm GHz	
-20 -18.6	66 dBm		$\sqrt{}$				<u> </u>						1MA
-30		\wedge					\sim						
-40	٨	لمر						Λ		A			
	// / //							\mathbb{\textsq}	\mathcal{N}	by			
-50 January N										\mathcal{V}	ww	Mm/V	
-60													
-70													
-80													
-90													
Center 2. Date: 30			300 kHz						Span 3 MHz				

Page 36 of 47

Report No.: FCC1909218



Product:	Wi		etooth Cor Hyperkin 2	ntroller for 2.4G		Т	est Mode:		k	Keep trar	ısmitt	ing	
Mode			8DPSK			Те	est Voltage	;		DC3	.7V		
Temperature		2	4 deg. C,			I	Humidity			56%	RH		
Test Result:			Pass				Detector		PK				
20dB Bandwidth		0	.830MHz								•		
Ŕ		Delta 1	[T1]		R	.BW	30 k	Hz	RF	Att	20	dВ	
Ref Lvl	-0.37 dB						100 k						
10 dBm		829	0.659318	864 kHz	S	WT	8.5 m	ıs	Uni	t		dBm	l
10				2			V ₁	[T1]	2	-17 .47955	.83 812	dBm GHz dB	A
-10					\\\\\	7	▼ 2	(T1)	829	.65931 2		kHz dBm	
—D1 -17.5	54 dBm-		1						2	.47981	062	GHz	
1MAX -30		\wedge	2				\\ \						1MA
-40	\wedge									1			
-50 mm	\	<i>ک</i> م								Ly Law	/مےمہم	ر در الم	
-60										Ì		Ť	
-70													
-80													
-90 Center 2.	.48 GH 7	Z		300	kHz/			<u>I</u>		Spa	n 3	MH z	
		48 GHz 300 kHz .SEP.2019 10:32:45							Span 3 MHz				

Report No.: FCC1909218 Page 37 of 47

Date: 2019-10-08



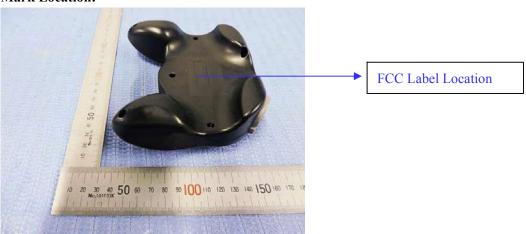
10.0 FCC ID Label

FCC ID: 2ARNF-M07389

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



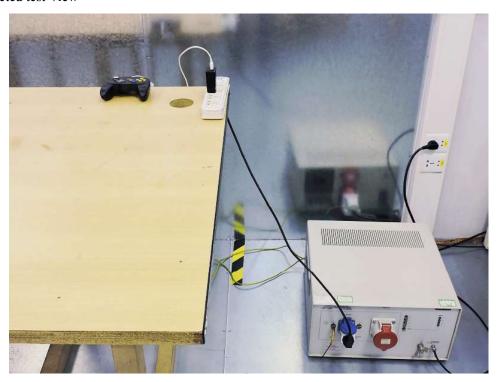
Page 38 of 47 Report No.: FCC1909218

Date: 2019-10-08



11.0 Photo of testing

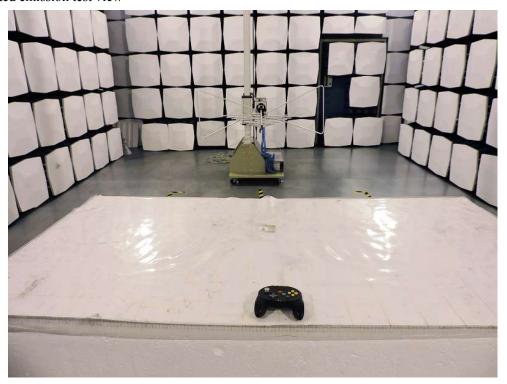
11.1 Conducted test View

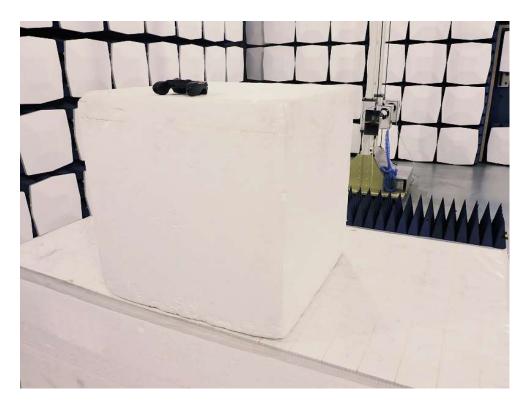


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11.2 Radiated emission test view





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11.3 Photographs – EUT

Outside View





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Page 41 of 47

Report No.: FCC1909218

Date: 2019-10-08



Outside View





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Page 42 of 47

Report No.: FCC1909218

Date: 2019-10-08



Outside View





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Report No.: FCC1909218 Page 43 of 47



Outside View



Page 44 of 47

Report No.: FCC1909218

Date: 2019-10-08



Inside view





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Page 45 of 47

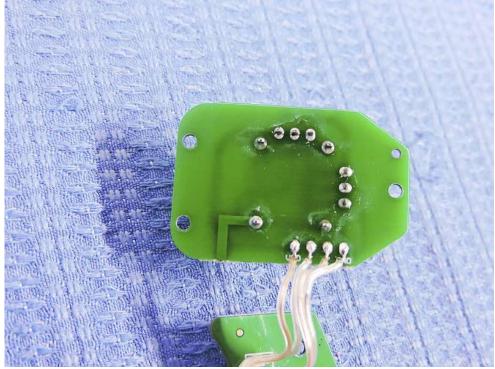
Report No.: FCC1909218

Date: 2019-10-08



Inside view





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Page 46 of 47

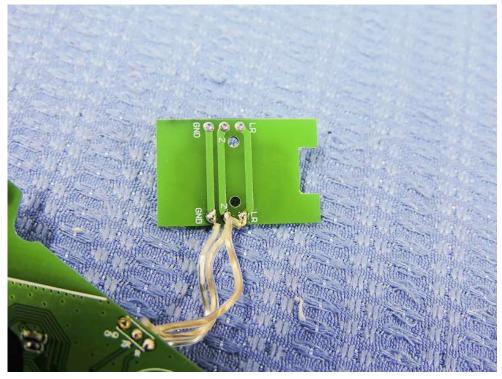
Report No.: FCC1909218

Date: 2019-10-08



Inside view





The report refers only to the sample tested and does not apply to the bulk.

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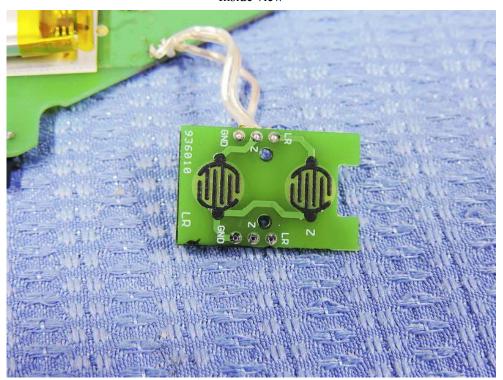
Page 47 of 47

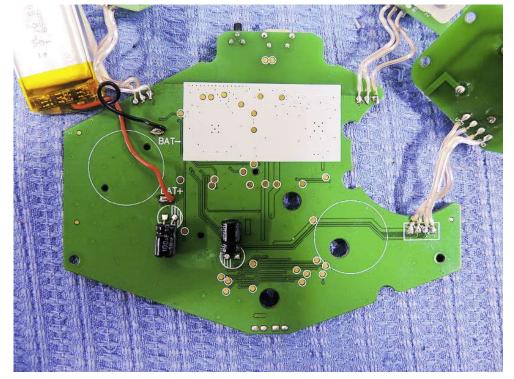
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Inside view





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