FCC Test Report

Report No.: AGC00610141201FE03

FCC ID : 2AC9LHW098

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: 2.4G wireless keyboard

BRAND NAME : N/A

MODEL NAME : HW098

CLIENT: Shenzhen Hastech industries Co., Ltd.

DATE OF ISSUE : Dec.11, 2014

STANDARD(S) : FCC Part 15 Rules

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Dec.11, 2014	Valid	Original Report

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Hastech industries Co., Ltd.	
Address	G-A1 BLDG, Democracy West Industry Park, Shajing Town, Baoan District, Shenzhen, China	
Manufacturer	Shenzhen Hastech industries Co., Ltd.	
Address	G-A1 BLDG, Democracy West Industry Park, Shajing Town, Baoan District, Shenzhen, China	
Product Designation	2.4G wireless keyboard	
Brand Name	N/A	
Test Model	HW098	
Date of test	Dec.05, 2014 to Dec.10, 2014	
Deviation	None	
Condition of Test Sample	Normal	
Report Template	AGCRT-US-BR/RF (2013-03-01)	

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2009) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.249.

Prepared By

Max Zhang Dec.11, 2014

Checked By

Kidd Yang Dec.11, 2014

Authorized By

Solger Zhang Dec.11, 2014

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is "2.4G wireless keyboard" designed as a "RF Product". It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2409MHz to 2476MHz
RF Output Power	1dBm(Max)
Modulation	MSK
Number of channels	8
Hardware Version	v1.2-0511
Software Version	v1.2-0376
Antenna Designation	PCB Antenna
Antenna Gain	-1dBi
Power Supply	DC3V by battery

2.2. TABLE OF CARRIER FREQUENCYS

Channel	Frequency	Channel	Frequency
1	2409	5	2445
2	2417	6	2455
3	2426	7	2465
4	2440	8	2476

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3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 2.75dB Radiated measurement: +/- 3.2dB

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX

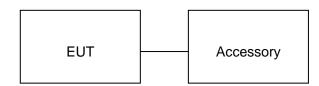
NOTE:

- 1. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configuration:



5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.203	Antenna Requirement	Compliant
§15.215(c)	20 dB Bandwidth	Compliant
§15.205	Restricted Band of Operation	Compliant
§15.209 §15.249(a)	Radiated Emission	Compliant
§15.249(d)	Out of Band Emission	Compliant
§15.207(a)	Conducted Emission	N/A

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6. TEST FACILITY

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	B112-B113, Building 12, Baoan Building Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen, Guangdong, P.R.China
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2003.

ALL TEST EQUIPMENT LIST

Description	Manufacturer	Model	Cal. Date	Cal. Due
Power Probe	R&S	URV5-Z2	07/30/2014	07/29/2015
RF attenuator	WEINSCHEL CORP	58-30-33	07/25/2014	07/24/2015
Spectrum Analyzer	Agilent	E4440A	07/16/2014	07/15/2015
EXA Signal Analyzer	Agilent	N9010A	10/24/2014	10/23/2015
Amplifier	EM	BBV 9718	07/30/2014	07/29/2015
HORN ANTENNA	Schwarzbeck	3117	08/17/2014	08/16/2015
HORN ANTENNA	A.H. SYSTEMS INC.	SAS-574	07/16/2014	07/15/2015
EMI Test Receiver	Rohde & Schwarz	ESCI	07/25/2014	07/24/2015
Bilogical Antenna	EMCO	3142C	08/17/2014	08/16/2015
Loop Antenna	LAPLACE	RF300	07/30/2014	07/29/2015
Isolation Transformer	LETEAC	LTBK	07/16/2014	07/15/2015
RF CABLE	SUIRONG	9KHZ-30MHZ	07/15/2014	07/14/2015
RF CABLE	SUIRONG	30MHZ-18GHZ	07/15/2014	07/14/2015
Conduction Cable	Sat	CE1	07/15/2014	07/14/2015

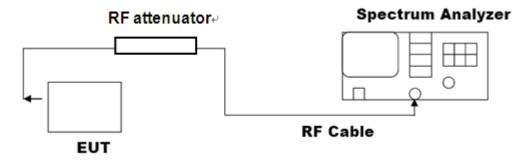
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7. 20DB BANDWIDTH

7.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. RBW=100kHz, VBW ≥ RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



7.3. LIMITS AND MEASUREMENT RESULTS

Channel	Channel Frequency(MHz)	20dB Bandwidth(MHz)
Low	2409	1.313
Middle	2440	1.309
High	2476	1.306

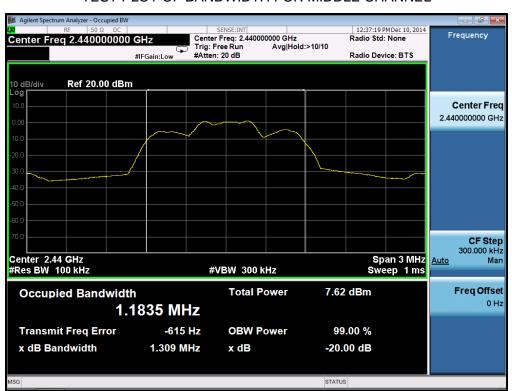
According to FCC 15.215(c),must be designed to ensure that the 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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8. RADIATED EMISSION

8.1. MEASUREMENT PROCEDURE

- 1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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The following table is the setting of spectrum analyzer and receiver.

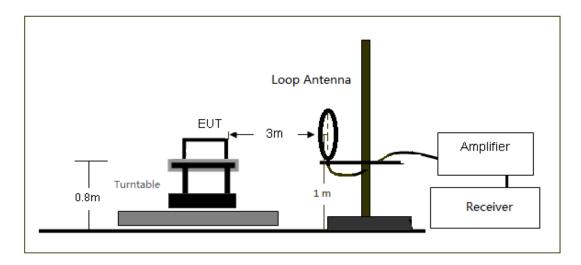
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

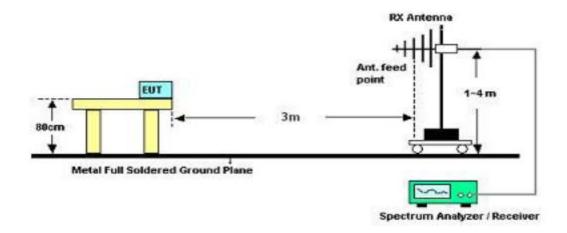
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8.2. TEST SETUP

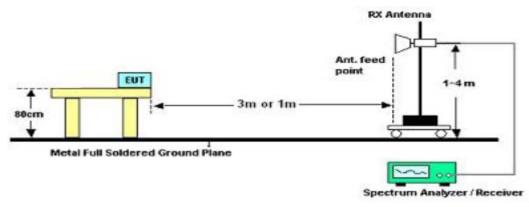
RADIATED EMISSION TEST SETUP BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



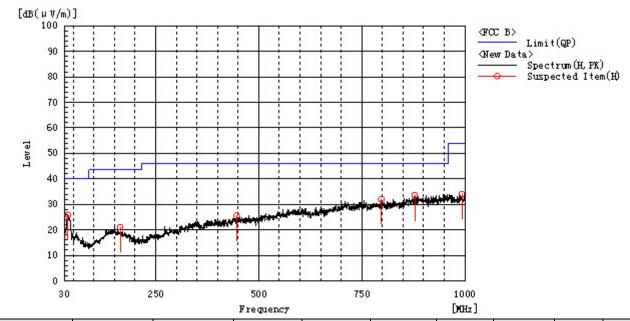
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8.3. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

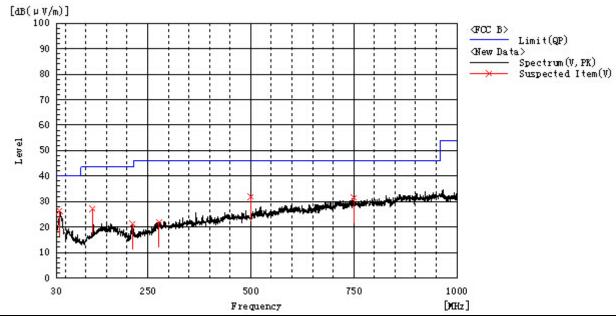
No emission found between lowest internal used/generated frequencies to 30MHz. Low Channel

RADIATED EMISSION BELOW 1GHZ-Horizontal



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
37.275	Н	5.0	20.8	25.8	40.0	14.2	Pass	100.0	73.3
992.725	Н	5.6	28.4	34.0	54.0	20.0	Pass	150.0	250.9
164.345	Н	6.1	15.0	21.1	43.5	22.4	Pass	100.0	286.3
446.615	Н	5.4	20.1	25.5	46.0	20.5	Pass	100.0	73.3
878.265	Н	5.8	27.7	33.5	46.0	12.5	Pass	200.0	73.5
797.270	Н	5.8	26.2	32.0	46.0	14.0	Pass	100.0	356.9

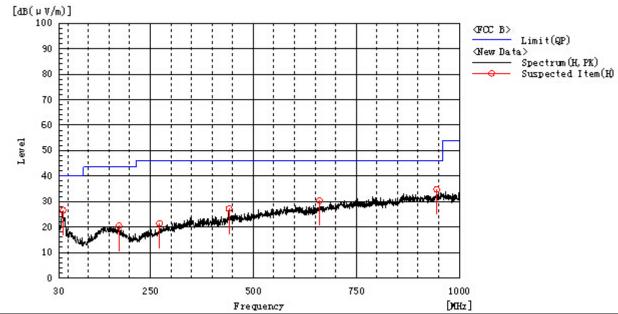
RADIATED EMISSION BELOW 1GHZ-Vertical



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
36.790	V	6.2	20.1	26.3	40.0	13.7	Pass	100.0	183.0
116.815	V	15.2	12.0	27.2	43.5	16.3	Pass	200.0	71.4
212.845	V	9.8	11.5	21.3	43.5	22.2	Pass	200.0	71.4
277.350	V	6.9	15.0	21.9	46.0	24.1	Pass	150.0	325.5
499.965	V	11.4	20.5	31.9	46.0	14.1	Pass	200.0	71.4
750.710	V	5.7	25.7	31.4	46.0	14.6	Pass	200.0	71.4

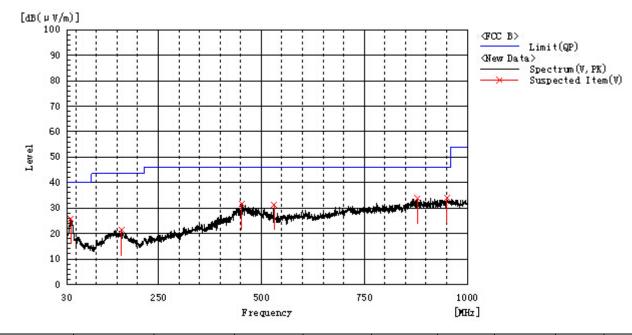
Middle Channel

RADIATED EMISSION BELOW 1GHZ-Horizontal



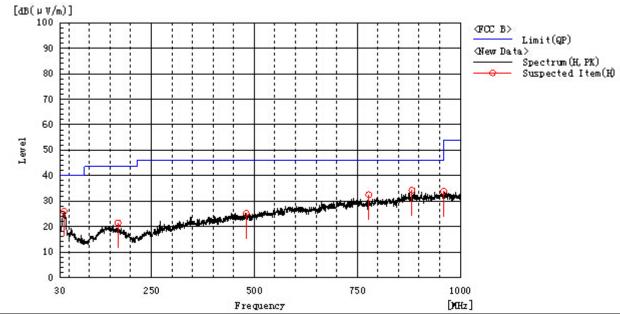
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
38.730	Н	5.6	21.0	26.6	40.0	13.4	Pass	100.0	214.3
174.530	Н	6.0	14.5	20.5	43.5	23.0	Pass	200.0	178.7
272.500	Н	6.6	14.8	21.4	46.0	24.6	Pass	200.0	178.7
441.280	Н	7.1	20.1	27.2	46.0	18.8	Pass	200.0	285.6
660.985	Н	7.0	23.3	30.3	46.0	15.7	Pass	150.0	73.8
945.195	Н	6.3	28.5	34.8	46.0	11.2	Pass	150.0	73.8

RADIATED EMISSION BELOW 1GHZ-Vertical



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
37.760	V	4.5	21.2	25.7	40.0	14.3	Pass	200.0	287.8
161.435	V	6.4	15.0	21.4	43.5	22.1	Pass	100.0	143.8
452.920	V	11.5	20.1	31.6	46.0	14.4	Pass	200.0	177.7
531.005	V	9.9	21.5	31.4	46.0	14.6	Pass	100.0	73.2
878.265	V	6.1	27.7	33.8	46.0	12.2	Pass	150.0	250.8
951.015	V	5.4	28.7	34.1	46.0	11.9	Pass	150.0	72.9

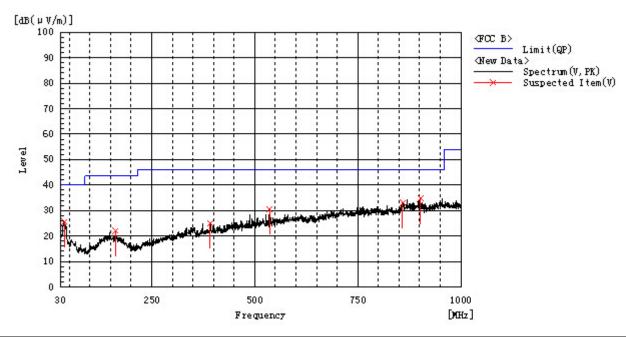
High Channel
RADIATED EMISSION BELOW 1GHZ-Horizontal



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
38.730	Н	5.0	21.0	26.0	40.0	14.0	Pass	200.0	69.7
169.680	Н	6.6	14.8	21.4	43.5	22.1	Pass	100.0	73.2
480.565	Н	5.0	20.2	25.2	46.0	20.8	Pass	100.0	325.9
777.870	Н	7.1	25.4	32.5	46.0	13.5	Pass	200.0	285.2
882.630	Н	6.6	27.7	34.3	46.0	11.7	Pass	150.0	146.5
959.745	Н	5.1	28.7	33.8	46.0	12.2	Pass	200.0	285.2

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RADIATED EMISSION BELOW 1GHZ-Vertical



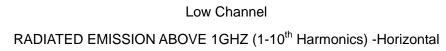
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
37.760	V	4.4	21.2	25.6	40.0	14.4	Pass	100.0	289.1
162.405	V	6.9	15.0	21.9	43.5	21.6	Pass	200.0	77.8
392.295	V	6.5	18.6	25.1	46.0	20.9	Pass	100.0	181.1
535.855	V	9.3	21.3	30.6	46.0	15.4	Pass	200.0	258.6
858.865	V	5.7	27.3	33.0	46.0	13.0	Pass	200.0	222.2
902.030	V	7.0	27.7	34.7	46.0	11.3	Pass	100.0	181.1

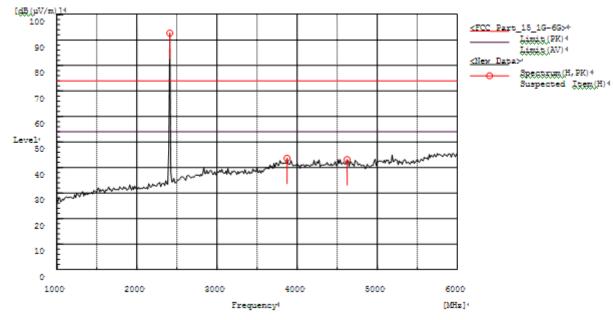
RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

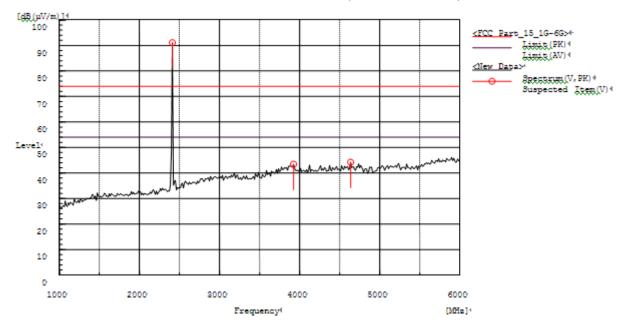
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Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m)	Margin dB	Pass/Fail	Height cm	Angle deg
2409.500	Н	93.1	-0.4	92.7	94.0	1.3	Pass	200.0	180.7
3875.000	Н	37.3	6.3	43.6	74.0	30.4	Pass	200.0	322.8
4625.000	Н	35.4	7.7	43.1	74.0	30.9	Pass	100.0	236.4

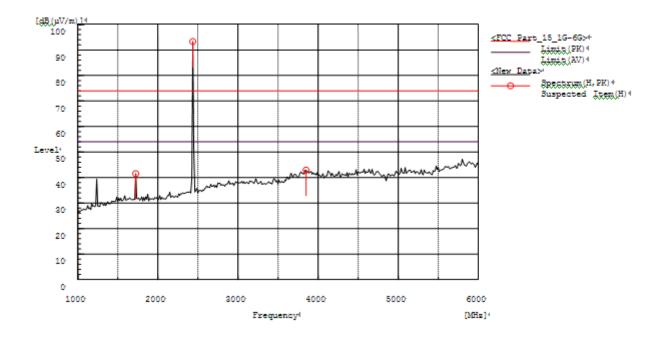
RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics) –Vertical



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m)	Margin dB	Pass/Fail	Height cm	Angle deg
2409.500	V	91.5	-0.4	91.1	94.0	2.9	Pass	100.0	164.0
3925.000	V	36.9	6.5	43.4	74.0	30.6	Pass	200.0	38.0
4637.500	V	36.5	7.7	44.2	74.0	29.8	Pass	200.0	287.3

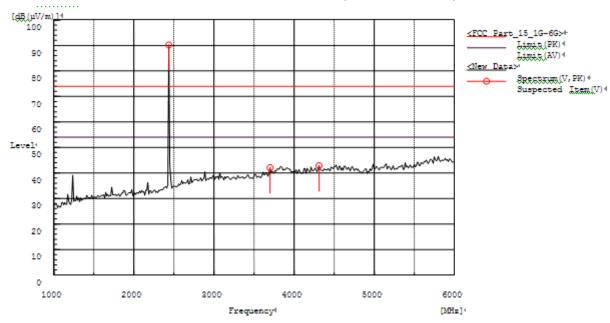
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Middle Channel
RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics) –Horizontal



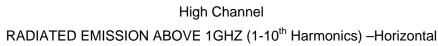
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m)	Margin dB	Pass/Fail	Height cm	Angle deg
2440.500	Н	93.6	-0.3	93.3	94.0	0.7	Pass	100.0	343.5
1725.000	Н	44.9	-3.4	41.5	74.0	32.5	Pass	200.0	180.3
3850.000	Н	36.8	6.1	42.9	74.0	31.1	Pass	200.0	73.1

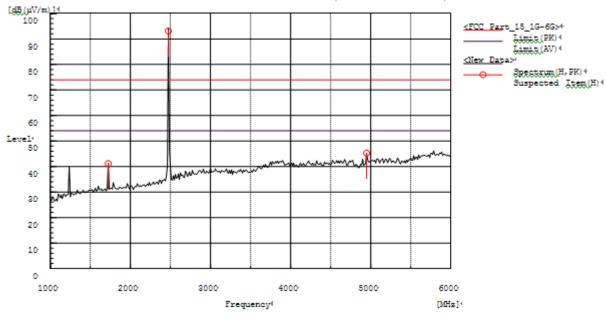
RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics) -Vertical



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m)	Margin dB	Pass/Fail	Height cm	Angle deg
2440.500	V	90.5	-0.3	90.2	94.0	3.8	Pass	200.0	123.3
4312.500	V	35.8	7.1	42.9	74.0	31.1	Pass	200.0	88.3
3700.000	V	36.7	5.3	42.0	74.0	32.0	Pass	200.0	123.3

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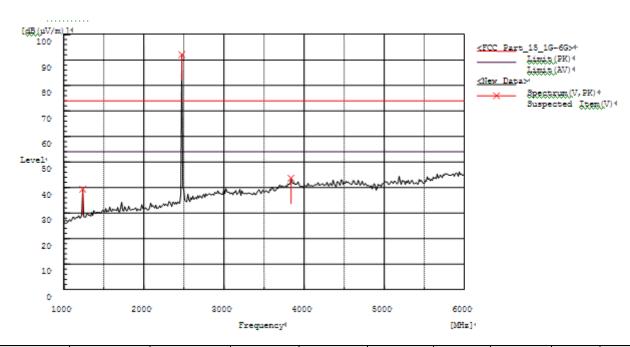




Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m)	Margin dB	Pass/Fail	Height cm	Angle deg
2476.000	Н	93.2	-0.1	93.1	94.0	0.9	Fail	100.0	272.2
1725.000	Н	44.5	-3.4	41.1	74.0	32.9	Pass	100.0	165.0
4950.000	Н	36.1	9.1	45.2	74.0	28.8	Pass	100.0	235.7

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics) -Vertical



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m)	Margin dB	Pass/Fail	Height cm	Angle deg
2476.000	V	92.2	-0.1	92.1	94.0	1.9	Pass	100.0	73.5
1237.500	V	45.2	-5.9	39.3	74.0	34.7	Pass	200.0	273.0
3837.500	V	37.5	6.1	43.6	74.0	30.4	Pass	100.0	109.9

RESULT: PASS

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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9. BAND EDGE EMISSION

9.1. MEASUREMENT PROCEDURE

As the radiation test, set the Lowest and Highest Transmitting Channel, observed the outside band of 2400MHz to 2483.5MHz, than mart the higher-lever emission for comparing with the FCC rules.

9.2. TEST SET-UP

Refer to 8.2

9.3 TEST RESULT

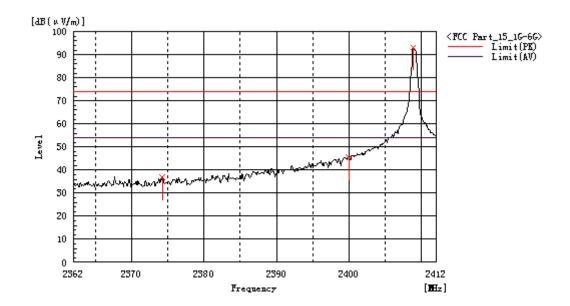
Frequency(MHz)	Limit(dBuv)	Result
Low Edge	<54	Pass
High Edge	<54	Pass

The edge emissions are shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Please refer to the test plots below.

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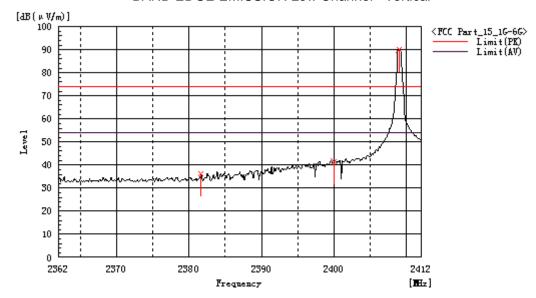
BAND EDGE EMISSION Low Channel -Horizontal



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m)	Margin dB	Pass/Fail	Height cm	Angle deg
2408.875	Н	93.6	-0.4	93.2	94.0	0.8	Pass	100.0	322.0
2400.000	Н	46.0	-0.4	45.6	74.0	28.4	Pass	100.0	198.5
2374.250	Н	37.6	-0.7	36.9	74.0	37.1	Pass	100.0	310.9

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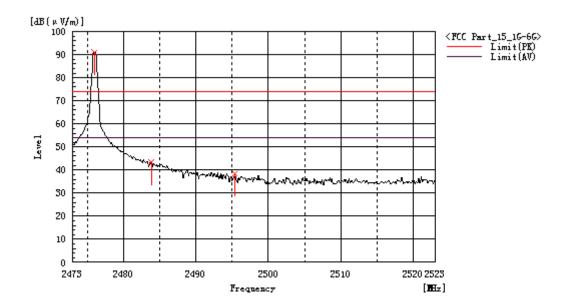
BAND EDGE EMISSION Low Channel -Vertical



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m)	Margin dB	Pass/Fail	Height cm	Angle deg
2409.000	V	90.4	-0.4	90.0	94.0	4.0	Pass	100.0	116.5
2400.000	V	41.9	-0.4	41.5	74.0	32.5	Pass	100.0	357.1
2381.625	V	36.8	-0.6	36.2	74.0	37.8	Pass	100.0	326.1

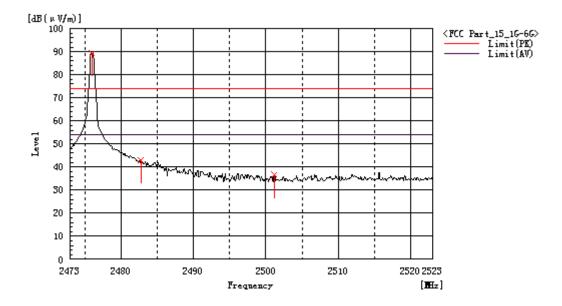
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BAND EDGE EMISSION High Channel -Horizontal



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m)	Margin dB	Pass/Fail	Height cm	Angle deg
2476.000	Н	91.3	-0.1	91.2	94.0	2.8	Pass	100.0	358.1
2483.875	Н	43.5	-0.1	43.4	74.0	30.6	Pass	100.0	149.7
2495.375	Н	38.2	0.1	38.3	74.0	35.7	Pass	100.0	246.9

BAND EDGE EMISSION High Channel -Vertical



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m)	Margin dB	Pass/Fail	Height cm	Angle deg
2476.000	V	89.4	-0.1	89.3	94.0	4.7	Pass	100.0	61.9
2482.750	V	43.1	-0.1	43.0	74.0	31.0	Pass	100.0	256.8
2501.125	V	36.4	0.2	36.6	74.0	37.4	Pass	100.0	138.5

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP



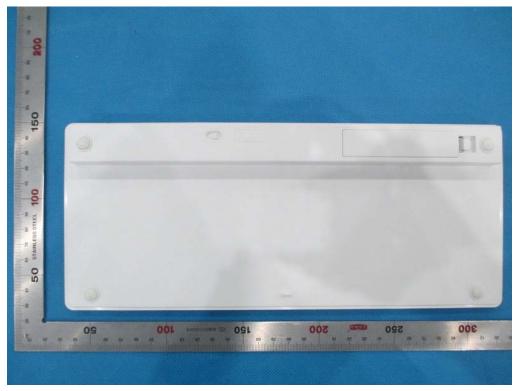
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APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



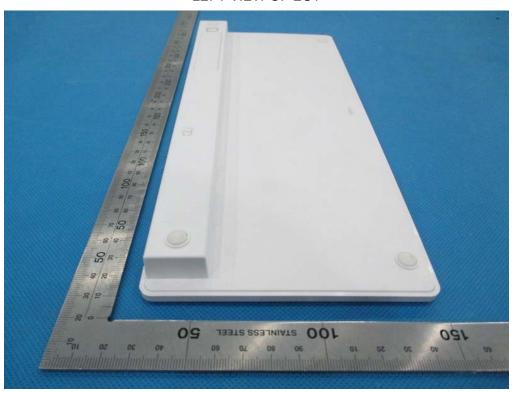
FRONT VIEW OF EUT



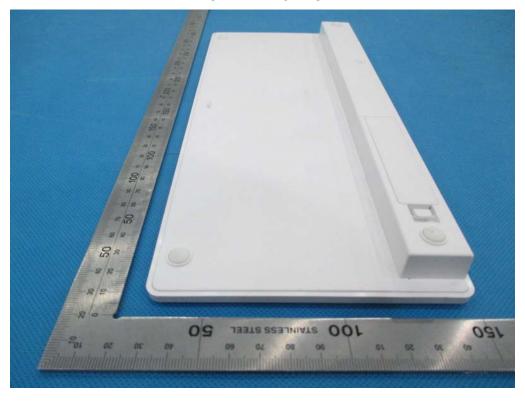
BACK VIEW OF EUT



LEFT VIEW OF EUT



RIGHT VIEW OF EUT



INSIDE VIEW OF BATTERY COVERY

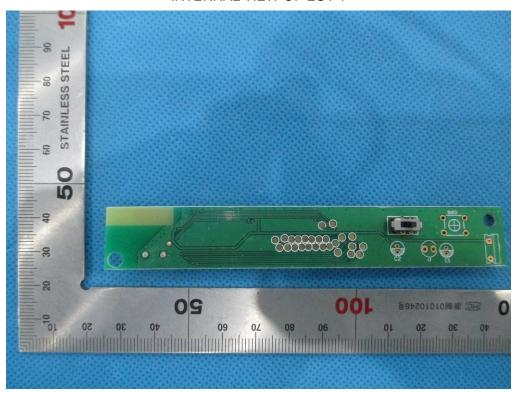


OPEN VIEW OF EUT-1

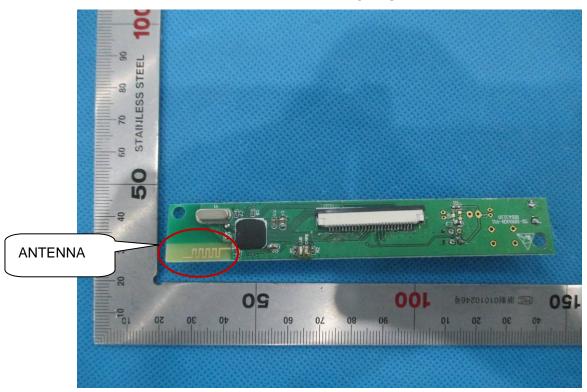


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INTERNAL VIEW OF EUT-1

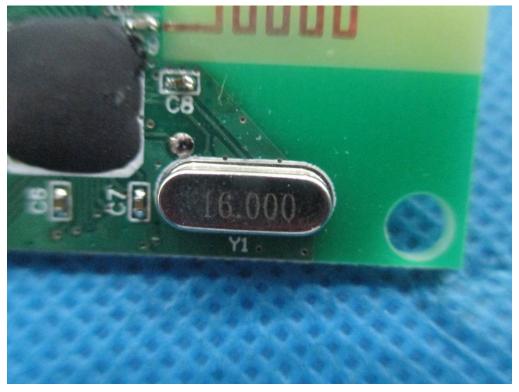


INTERNAL VIEW OF EUT-2



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INTERNAL VIEW OF EUT-3



----END OF REPORT----