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FCC Test Report

Report No.: AGC00718140701FE03

FCC ID : 2ACGLK560

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Bluetooh Wireless Keyboard

BRAND NAME : N/A

MODEL NAME : K560, K560A, K560B, NT38B

CLIENT SHENZHEN BAOAN XIXIANG XINAN YUANDA

ELECTRONIC FACTORY

DATE OF ISSUE : Jul.02, 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	/	Jul.02, 2014	Valid	Original Report

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1. VERIFICATION OF CONFORMITY

Applicant	SHENZHEN BAOAN XIXIANG XINAN YUANDA ELECTRONIC FACTORY
Address	5 floor,4nd building of Wangye industrial park, Baotian 3rd road , Xixiang town, Baoan district, Shenzhen, China
Manufacturer	SHENZHEN BAOAN XIXIANG XINAN YUANDA ELECTRONIC FACTORY
Address	5 floor,4nd building of Wangye industrial park, Baotian 3rd road , Xixiang town, Baoan district, Shenzhen, China
Product Designation	Bluetooh Wireless Keyboard
Brand Name	N/A
Test Model	K560
Series Model	K560A, K560B, NT38B
Different Description	All the same except for the model name.
Date of test	Jun.30,2014 to Jul.02,2014
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 (2003) 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 15.247.

Prepared By

Water Zuo Jul.02, 2014

Checked By

Forrest Lei Jul.02, 2014

Authorized By

Solger Zhang Jul.02, 2014

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is "Bluetooh Wireless Keyboard" designed as a "Communication Device". 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	2.402 GHz to 2.480GHz
RF Output Power	5.76dBm(Max)
Bluetooth Version	V 3.0
Modulation	GFSK
Number of channels	79
Hardware Version	V4.0
Software Version	V1.0
Antenna Designation	Integral antenna
Antenna Gain	0dBi
Power Supply	DC3.7V by Battery

Note:

- 1. BT is active when charging. The USB port is only used for charging and can't be used to transfer data with PC.
- 2. The EUT is equipped with the Bluetooth Chip BCM20730 which complies with Bluetooth V3.0. BUT for this device the functionality is limited to GFSK (1 MBit/s) by the firmware. End-user is not able to change the settings and enable any additional functionality by himself.

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	0	2402MHZ
	1	2403MHZ
	:	:
	38	2440 MHZ
2402~2480MHZ	39	2441 MHZ
	40	2442 MHZ
	:	:
	77	2479 MHZ
	78	2480 MHZ

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2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHZ,In every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection(e.g. single of multislot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.

Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a 79 hopping sequence in data mode: 40,21,44,23,42,53,46,55,48,33,52,35,50,65,54,67 56,37,60,39,58,69,62,71,64,25,68,27,66,57,70,59 72,29,76,31,74,61,78,63,01,41,05,43,03,73,07,75 09,45,13,47,11,77,15,00,64,49,66,53,68,02,70,06 01, 51, 03, 55, 05, 04

2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values:

- 1. LAP/UAP of the master of the connection.
- 2. Internal master clock

The LAP(lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP(upper address part) are the 24MSB's of the 48BD ADDRESS

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For ehavior zation with other units only offset are used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5us. The clock has a cycle of about one day(23h30). In most case it is implemented as 28 bit counter. For the deriving of the hopping sequence the entire. LAP(24 bits), 4LSB's (4bits) (Input 1) and the 27MSB's of the clock (Input 2) are used. With this input values different mathematical procedures (permutations, additions, XOR-operations) are performed to generate te Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following ehavior:

The first connection between the two devices is established, a hopping sequence was generated. For Transmitting the wanted data the complete hopping sequence was not used. The connection ended. The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmission is longer(and it Cannot be shorter) than the minimum resolution of the clock(312.5us). The hopping sequence will always Differ from the first one.

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2.6. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2ACGLK560** filling to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.7. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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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
4	Normal Operating (BT)

Note:

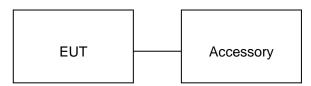
- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

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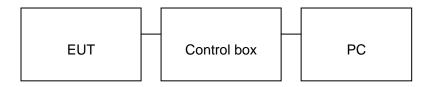
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Bluetooh Wireless Keyboard	N/A	K560	EUT
2	PC	Dell	INSPIRON	A.E
3	Control box	N/A	N/A	A.E

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Peak Output Power	Compliant
§15.247	20 dB Bandwidth	Compliant
§15.247	Spurious Emission	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.207	Conduction Emission	Compliant
§15.247	Number of Hopping Frequency	Compliant
§15.247	Time of Occupancy	Compliant
§15.247	Frequency Separation	Compliant

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6. TEST FACILITY

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd		
Location	2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, 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	S/N	Cal. Date	Cal. Due
Power Probe	R&S	NRP-Z23	100323	07/17/2013	07/16/2014
RF attenuator	N/A	RFA20db	68	N/A	N/A
Spectrum Analyzer	Agilent	E4440A	US41421290	07/17/2013	07/16/2014
Amplifier	EM	EM30180	0607030	02/28/2014	02/27/2015
Horn Antenna	EM	EM-AH-10180	67	04/19/2014	04/18/2015
Horn Antenna	A.H. Systems Inc.	SAS-574		07/17/2013	07/16/2014
EMI Test Receiver	Rohde & Schwarz	ESCI	100694	07/17/2013	07/16/2014
Bilogical Antenna	A.H. Systems Inc.	SAS-521-4	26	06/06/2014	06/05/2015
LISN	R&S	ESH3-Z5	8389791009	07/17/2013	07/16/2014
Loop Antenna	Daze	ZN30900N	SEL0097	07/17/2013	07/16/2014
Isolation Transformer	LETEAC	LTBK		07/17/2013	07/16/2014

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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 3. Set the EUT Work on the top, middle and the bottom operation frequency individually.
- 4. RBW > the 20 dB bandwidth of the emission being measured, VBW ≥ RBW.
- 5. Record the maximum power from the Spectrum Analyzer.

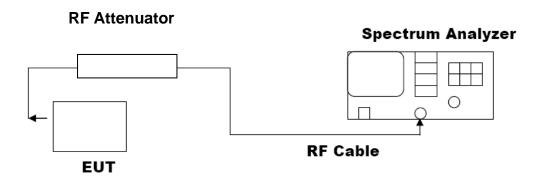
For average power test:

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Connect EUT RF output port to power probe through an RF attenuator.
- 3. Connect the power probe to the PC.
- 4. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 5. Record the maximum power from the software.
- 6. The maximum peak power shall be less 125mW (21dBm).

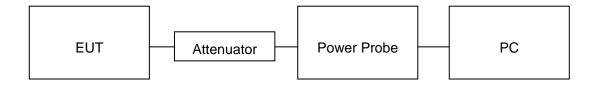
Note: The EUT was tested according to DA000705 for compliance to FCC 47CFR 15.247 requirements.

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

PEAK POWER TEST SETUP



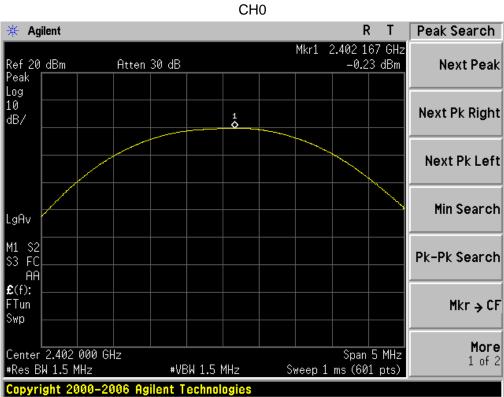
AVERAGE POWER SETUP



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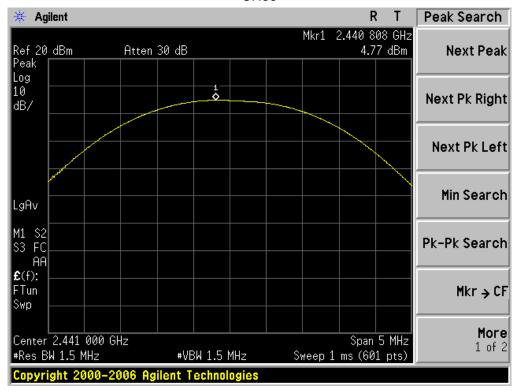
7.3. LIMITS AND MEASUREMENT RESULT

	PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION						
Frequency (GHz) Average Power (dBm) Peak Power Applicable Limits (dBm) Pass or Fail							
2.402	-2.15	-0.23	21	Pass			
2.441	2.82	4.77	21	Pass			
2.480	3.8	5.76	21	Pass			

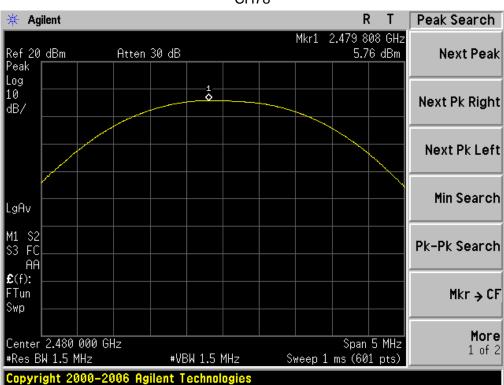


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CH39



CH78



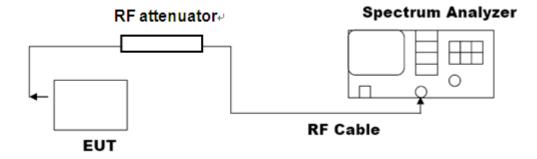
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8. 20DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 3, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel RBW ≥ 1% of the 20 dB bandwidth, VBW ≥ RBW; Sweep = auto; Detector function = peak
- 5. Set SPA Trace 1 Max hold, then View.

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



8.3. LIMITS AND MEASUREMENT RESULTS

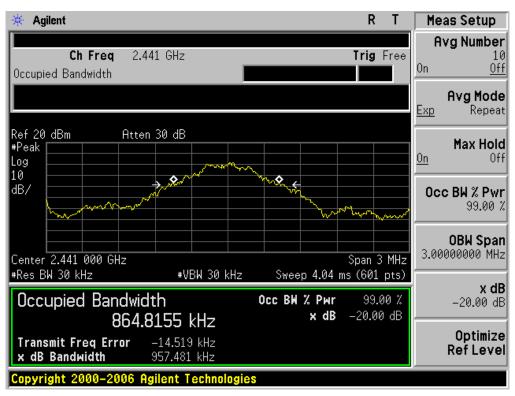
BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESUL							
Amplicable Limite	Measurement Result						
Applicable Limits	Test Da	Criteria					
	Low Channel	0.832	PASS				
N/A	Middle Channel	0.957	PASS				
	High Channel	0.873	PASS				

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

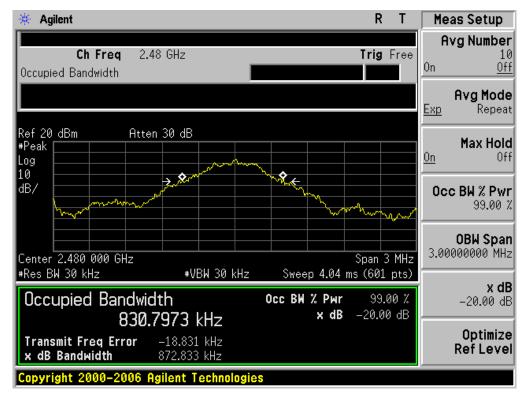


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 3. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
- 4. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
 - RBW = 100 kHz; VBW ≥ RBW; Sweep = auto; Detector function = peak.
- 5. Set SPA Trace 1 Max hold, then View.

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

The same as described in section 8.2

9.3. MEASUREMENT EQUIPMENT USED

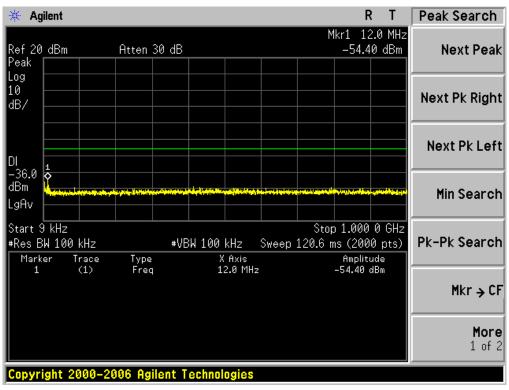
The same as described in section 6

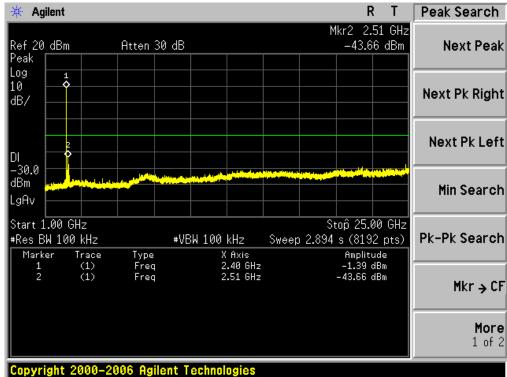
9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT								
Amplicable Limite	Measurement Result							
Applicable Limits	Test Data	Criteria						
In any 100 KHz Bandwidth Outside the	At least -20dBc than the limit							
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS						
intentional radiator is operating, the radio frequency	Channel							
power that is produce by the intentional radiator								
shall be at least 20 dB below that in 100KHz								
bandwidth within the band that contains the highest								
level of the desired power.	At least -20dBc than the limit	DACC						
In addition, radiation emissions which fall in the	Specified on the TOP Channel	PASS						
restricted bands, as defined in §15.205(a), must also								
comply with the radiated emission limits specified								
in§15.209(a))								

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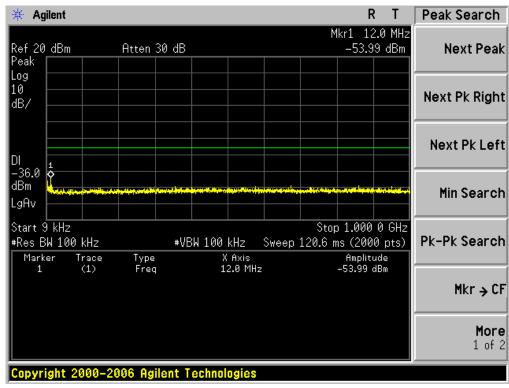
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF GFSK MODULATION IN LOW CHANNEL

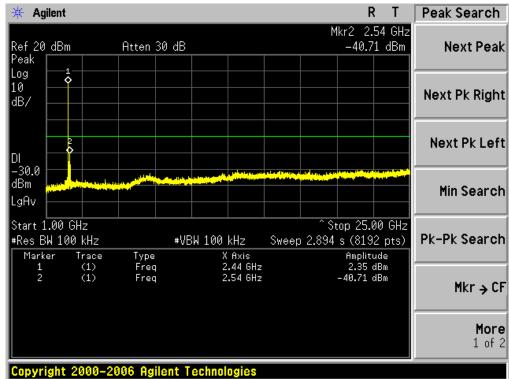




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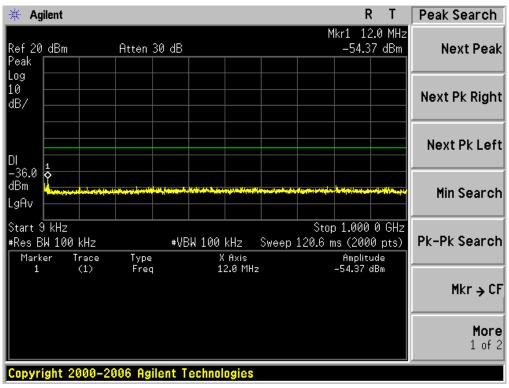
TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN MIDDLE CHANNEL

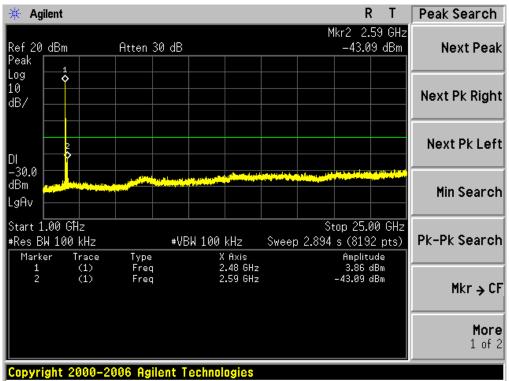




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TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN HIGH CHANNEL





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10. RADIATED EMISSION

10.1. 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

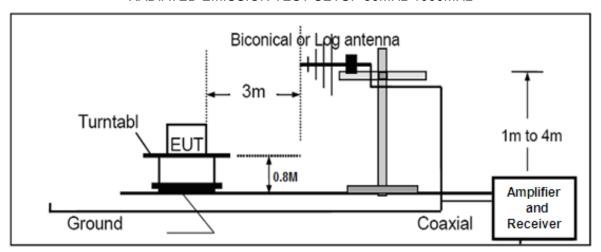
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10.2. TEST SETUP

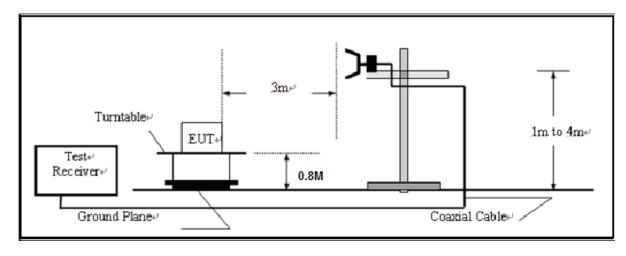
RADIATED EMISSION TEST SETUP BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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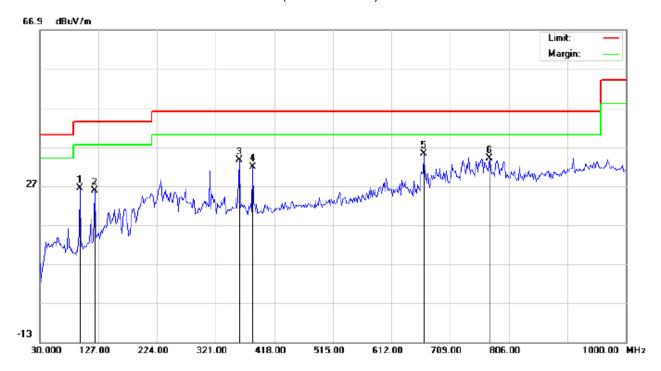
10.3. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

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

RADIATED EMISSION BELOW 1GHZ

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL-HORIZONTAL



Site: site #1 Limit: FCC Class B 3M Radiation

EUT:Bluetooh Wireless Keyboard

M/N:K560

Mode:Low Channel TX

Note:

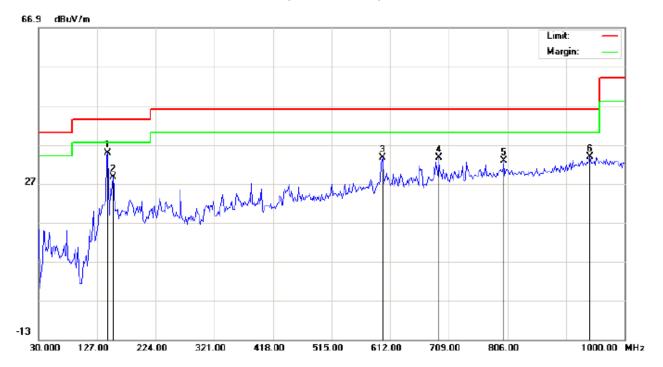
Polarization: Horizontal Temperature: 26
Power: Humidity: 60 %

Distance: 3m

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		96.2833	16.28	10.07	26.35	43.50	-17.15	peak			
2		120.5333	13.84	11.95	25.79	43.50	-17.71	peak			
3		359.8000	14.87	18.80	33.67	46.00	-12.33	peak			
4		382.4333	12.93	18.95	31.88	46.00	-14.12	peak			
5	*	665.3500	11.02	24.26	35.28	46.00	-10.72	peak			
6		773.6667	7.12	26.96	34.08	46.00	-11.92	peak			

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RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL -VERTICAL



Site: site #1 Limit: FCC Class B 3M Radiation

EUT:Bluetooh Wireless Keyboard

M/N:K560

Mode:Low Channel TX

Note:

Polarization: Vertical	Temperature: 26
Power:	Humidity: 60 %
Distance: 3m	

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	144.7833	19.55	15.23	34.78	43.50	-8.72	peak			
2		152.8667	13.23	15.28	28.51	43.50	-14.99	peak			
3		599.0667	10.92	22.73	33.65	46.00	-12.35	peak			
4		692.8333	8.68	25.00	33.68	46.00	-12.32	peak			
5		799.5333	5.46	27.31	32.77	46.00	-13.23	peak			
6		941.8000	4.05	29.77	33.82	46.00	-12.18	peak		·	

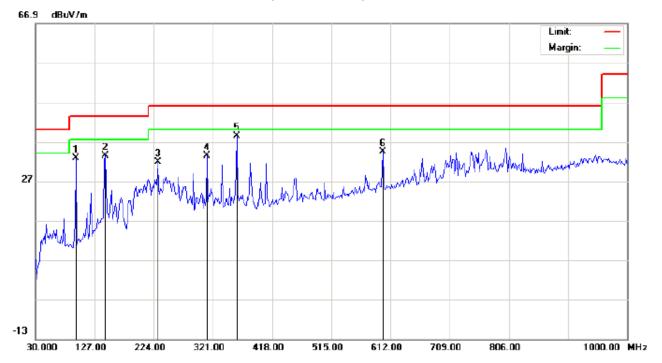
RESULT: PASS

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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RADIATED EMISSION TEST- (30MHZ-1GHZ)-MIDDLE CHANNEL-HORIZONTAL



Site: site #1 Limit: FCC Class B 3M Radiation

EUT:Bluetooh Wireless Keyboard

M/N:K560

Mode:Middle Channel TX

Note:

Polarization: Horizontal Temperature: 26
Power: Humidity: 60 %

Distance: 3m

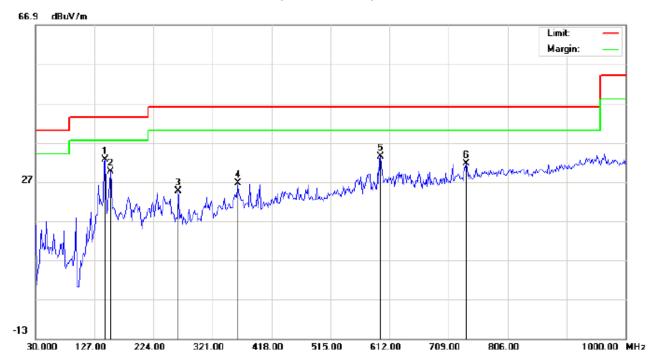
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree]
1		96.2833	22.66	10.07	32.73	43.50	-10.77	peak			
2		144.7833	18.19	15.23	33.42	43.50	-10.08	peak			
3		230.4667	18.56	13.16	31.72	46.00	-14.28	peak			
4		311.3000	17.17	16.16	33.33	46.00	-12.67	peak			
5	*	359.8000	19.55	18.80	38.35	46.00	-7.65	peak			
6		599.0667	10.65	23.71	34.36	46.00	-11.64	peak			

Temperature: 26

Humidity: 60 %

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RADIATED EMISSION TEST- (30MHZ-1GHZ)- MIDDLE CHANNEL -VERTICAL



Site: site #1 Limit: FCC Class B 3M Radiation

EUT:Bluetooh Wireless Keyboard

M/N:K560

Mode:Middle Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	144.7833	17.43	15.23	32.66	43.50	-10.84	peak			
2		152.8667	14.36	15.28	29.64	43.50	-13.86	peak			
3		264.4167	10.32	14.34	24.66	46.00	-21.34	peak			
4		363.0333	7.68	18.83	26.51	46.00	-19.49	peak			
5		597.4500	10.66	22.72	33.38	46.00	-12.62	peak			
6		738.1000	5.27	26.29	31.56	46.00	-14.44	peak			

Power:

Distance: 3m

Polarization: Vertical

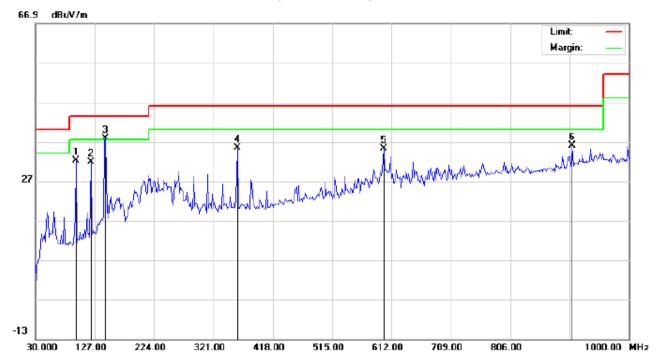
RESULT: PASS

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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RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL-HORIZONTAL



Site: site #1 Limit: FCC Class B 3M Radiation

EUT:Bluetooh Wireless Keyboard

M/N:K560

Mode:High Channel TX

Note:

Polarization:	Horizontal	Temperature: 26
Power:		Humidity: 60 %

Distance: 3m

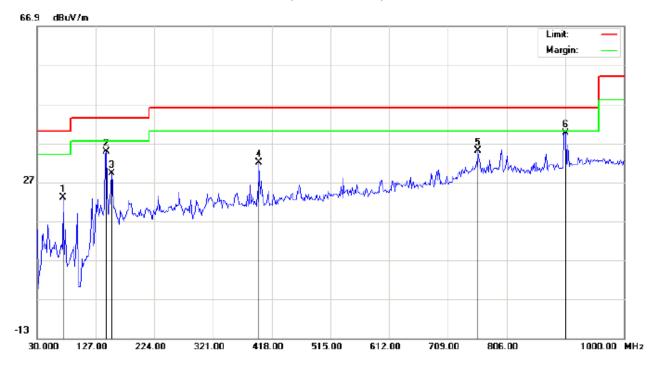
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		96.2833	22.18	10.07	32.25	43.50	-11.25	peak			
2		120.5333	19.95	11.95	31.90	43.50	-11.60	peak			
3	*	144.7833	22.51	15.23	37.74	43.50	-5.76	peak			
4		359.8000	16.52	18.80	35.32	46.00	-10.68	peak			
5		599.0667	11.44	23.71	35.15	46.00	-10.85	peak			
6		907.8500	7.09	28.83	35.92	46.00	-10.08	peak			

Temperature: 26

Humidity: 60 %

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RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL -VERTICAL



Power:

Distance: 3m

Polarization: Vertical

Site: site #1 Limit: FCC Class B 3M Radiation

EUT:Bluetooh Wireless Keyboard

Reading

Factor

M/N:K560

Mode:High Channel TX

Freq.

Note:

Mk

Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
dBuV/m	dBu∀/m	dB		cm	degree	
23 02	40 00	-16 98	neak			

No. MHz dBu∀ dB/m dBuV/m 1 73.6500 19.66 3.36 23.02 2 144.7833 19.59 15.23 34.82 43.50 -8.68 peak 3 152.8667 14.01 15.28 29.29 43.50 -14.21 peak 4 396.9833 13.02 19.05 32.07 46.00 -13.93 peak 5 759.1167 8.16 26.76 34.92 46.00 -11.08 peak 6 903.0000 10.84 28.69 39.53 46.00 -6.47 peak

RESULT: PASS

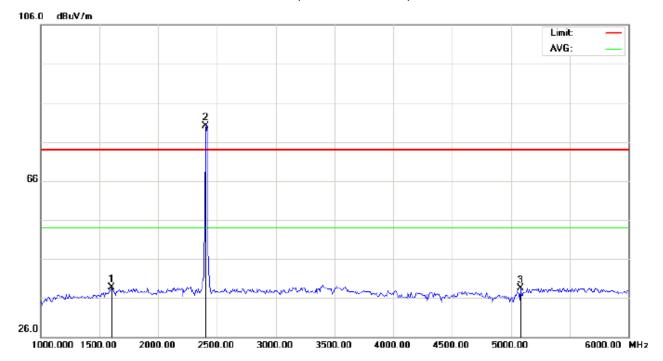
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

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RADIATED EMISSION ABOVE 1GHZ

RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-LOW CHANNEL-HORIZONTAL



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT:Bluetooh Wireless Keyboard

Distance:

M/N:K560

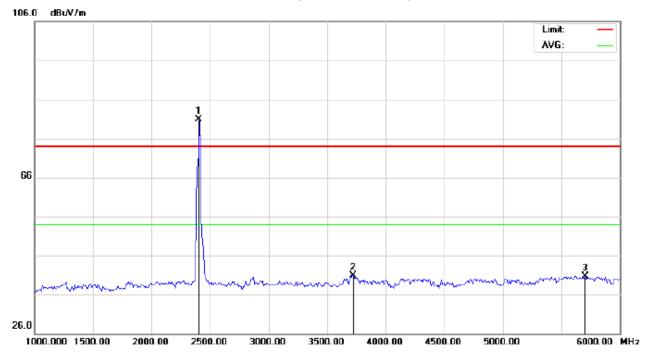
Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB	ĺ	cm	degree	
1		1600.000	53.03	-14.33	38.70	74.00	-35.30	peak			
2	*	2402.000	89.83	-9.68	80.15	74.00	6.15	peak			
3		5083.333	40.27	-1.80	38.47	74.00	-35.53	peak			

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-LOW CHANNEL -VERTICAL



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT:Bluetooh Wireless Keyboard

Distance:

M/N:K560

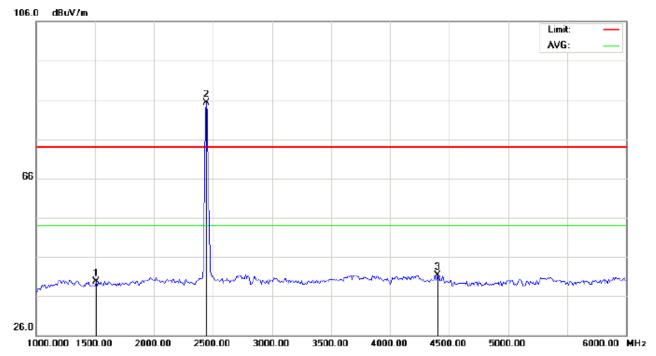
Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1	*	2402.000	90.58	-9.68	80.90	74.00	6.90	peak			
2		3725.000	47.45	-6.50	40.95	74.00	-33.05	peak			
3		5700.000	42.42	-1.72	40.70	74.00	-33.30	peak			

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-MIDDLE CHANNEL-HORIZONTAL



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT:Bluetooh Wireless Keyboard

Distance:

M/N:K560

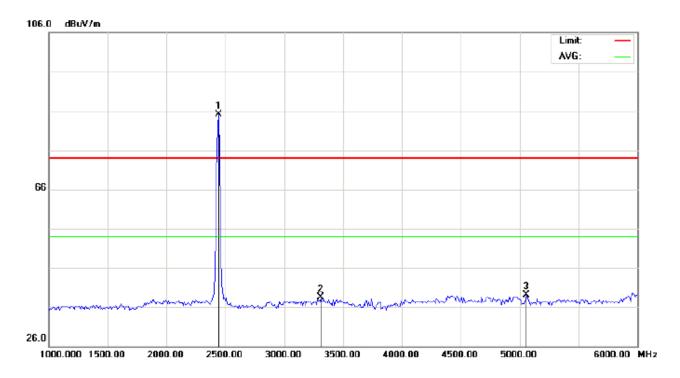
Mode: Middle Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		1508.333	54.95	-15.29	39.66	74.00	-34.34	peak			
2	*	2441.000	94.87	-9.63	85.24	74.00	11.24	peak			
3		4400.000	44.77	-3.45	41.32	74.00	-32.68	peak			

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics) - MIDDLE CHANNEL -VERTICAL



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT:Bluetooh Wireless Keyboard

Distance:

M/N:K560

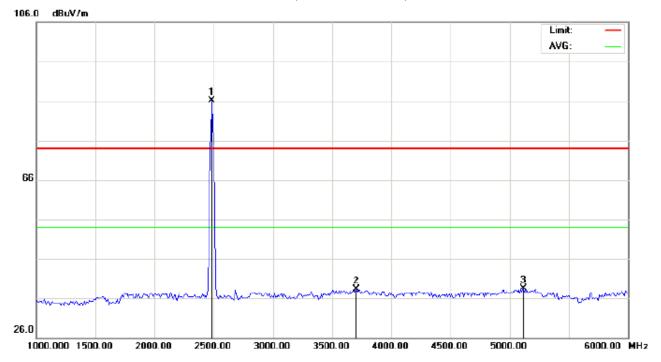
Mode: Middle Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2441.000	94.80	-9.63	85.17	74.00	11.17	peak			
2		3308.333	46.52	-8.07	38.45	74.00	-35.55	peak			
3		5058.333	40.97	-1.80	39.17	74.00	-34.83	peak			

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-HIGH CHANNEL-HORIZONTAL



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT:Bluetooh Wireless Keyboard

Distance:

M/N:K560

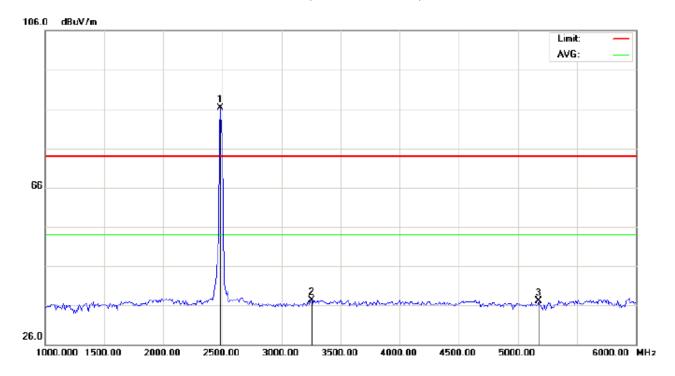
Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	95.67	-9.59	86.08	74.00	12.08	peak			
2		3700.000	44.91	-6.66	38.25	74.00	-35.75	peak			
3		5116.667	40.34	-1.80	38.54	74.00	-35.46	peak			

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-HIGH CHANNEL -VERTICAL



Site: site #1 Polarization: Limit: FCC Class B 3M Radiation above 1GHZ(PK)

Power:

Temperature: 26 Humidity: 60 %

EUT:Bluetooh Wireless Keyboard

Distance:

Vertical

M/N:K560

Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	95.88	-9.59	86.29	74.00	12.29	peak			
2		3258.333	45.35	-8.12	37.23	74.00	-36.77	peak			
3		5175.000	38.87	-1.80	37.07	74.00	-36.93	peak			

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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11. BAND EDGE EMISSION

11.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the bottom operation frequency individually.
- 2. Set SPA Start or Stop Frequency = Operation Frequency, RBW>=1%span, VBW>=RBW
- 3. The band edges was measured and recorded.

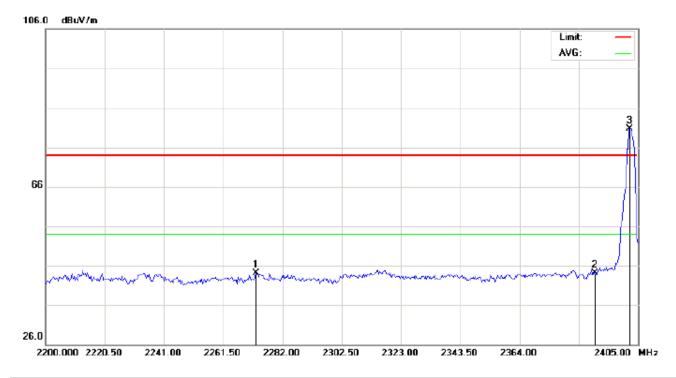
11.2. TEST SET-UP

Radiated same as 10.2

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11.3. TEST RESULT

TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT:Bluetooh Wireless Keyboard

Distance:

M/N:K560

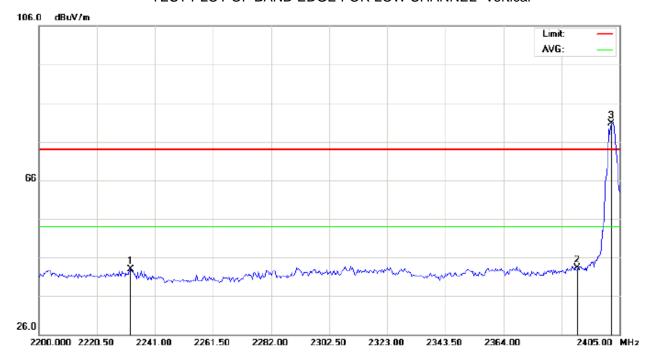
Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2272.775	53.86	-9.82	44.04	74.00	-29.96	peak			
2		2390.000	53.76	-9.69	44.07	74.00	-29.93	peak			
3	*	2402.000	90.37	-9.68	80.69	74.00	6.69	peak			

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT:Bluetooh Wireless Keyboard Distance:

M/N:K560

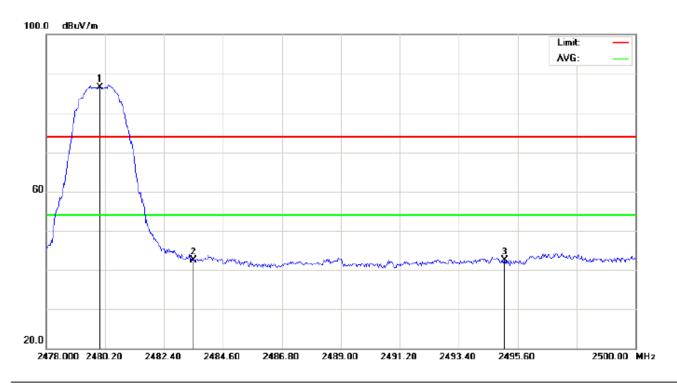
Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2232.458	52.69	-9.86	42.83	74.00	-31.17	peak			
2		2390.000	53.06	-9.69	43.37	74.00	-30.63	peak			
3	*	2402.000	90.37	-9.68	80.69	74.00	6.69	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT:Bluetooh Wireless Keyboard

M/N:K560

Mode: High Channel TX

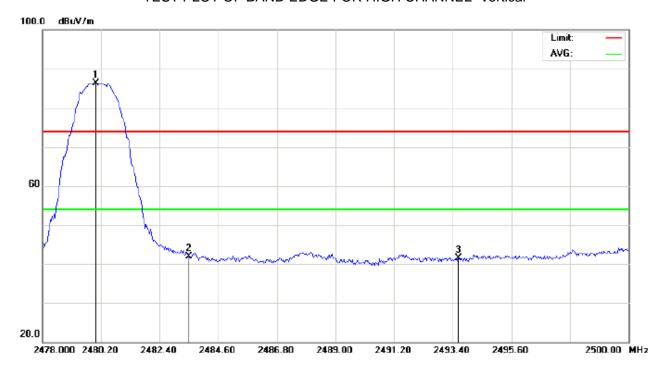
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1	*	2480.000	96.04	-9.59	86.45	74.00	12.45	peak			
2		2483.500	52.10	-9.59	42.51	74.00	-31.49	peak			
3		2495.123	52.11	-9.58	42.53	74.00	-31.47	peak			

Distance:

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Vertical



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %

EUT:Bluetooh Wireless Keyboard Distance:

M/N:K560

Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	95.81	-9.59	86.22	74.00	12.22	peak			
2		2483.500	51.58	-9.59	41.99	74.00	-32.01	peak			
3		2493.620	51.17	-9.58	41.59	74.00	-32.41	peak			

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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12. NUMBER OF HOPPING FREQUENCY

12.1. MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer Start = 2.4GHz Stop = 2.4835GHz
- 4. Set the Spectrum Analyzer as RBW>=1%span, VBW>=RBW.

12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

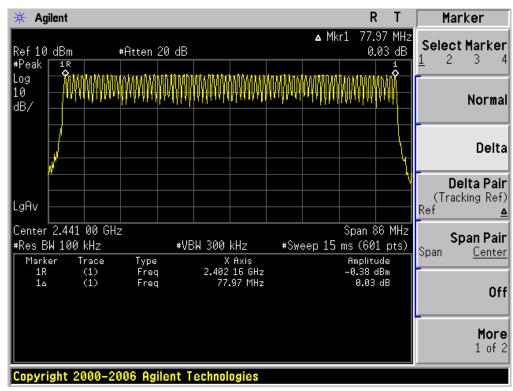
12.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

12.4. LIMITS AND MEASUREMENT RESULT

TOTAL NO. OF	LIMIT (NO. OF CH)	MEASUREMENT (NO. OF CH)	RESULT
HOPPING CHANNEL	>=15	79	PASS

TEST PLOT FOR NO. OF TOTAL CHANNELS



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13. TIME OF OCCUPANCY (DWELL TIME)

13.1. MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
- 3. Set Span = zero span, centered on a hoping channel
- 4. Set the spectrum analyzer as RBW=1MHz, VBW>=RBW, Span = 0 Hz

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

13.4. LIMITS AND MEASUREMENT RESULT

The Worst Case for DH5

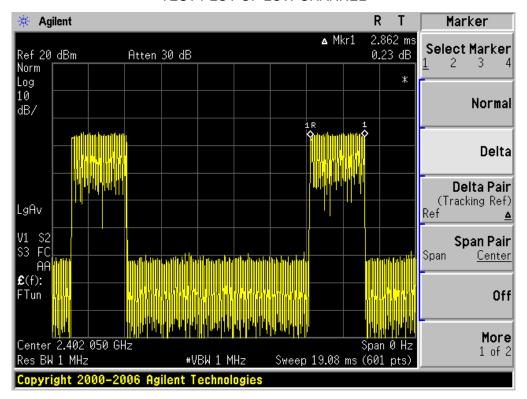
Channel	Time of Pulse for DH5	Period Time	Sweep Time	Limit
Chaine	(ms)	(s)	(ms)	(ms)
Low	2.862	31.6	305.28	400
Middle	2.926	31.6	312.11	400
High	2.862	31.6	305.28	400

Low Channel Time 2.862*(1600/6)/79*31.6=305.28ms Middle Channel Time 2.926*(1600/6)/79*31.6=312.11ms High Channel Time

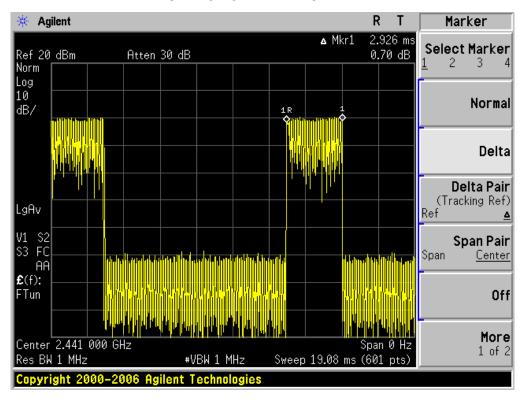
2.862*(1600/6)/79*31.6=305.28ms

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TEST PLOT OF LOW CHANNEL

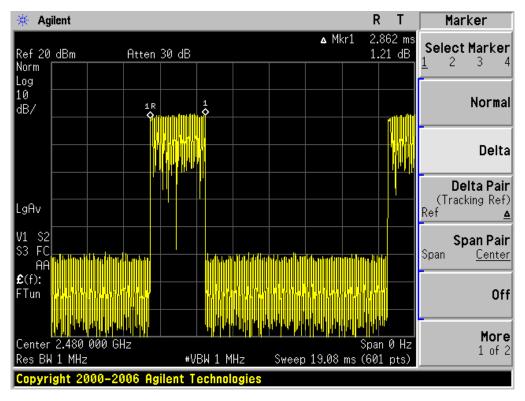


TEST PLOT OF MIDDLE CHANNEL



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TEST PLOT OF HIGH CHANNEL



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14. FREQUENCY SEPARATION

14.1. MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer
- 3. Set Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span Video (or Average) Bandwidth (VBW) ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold

14.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

14.3. MEASUREMENT EQUIPMENT USED

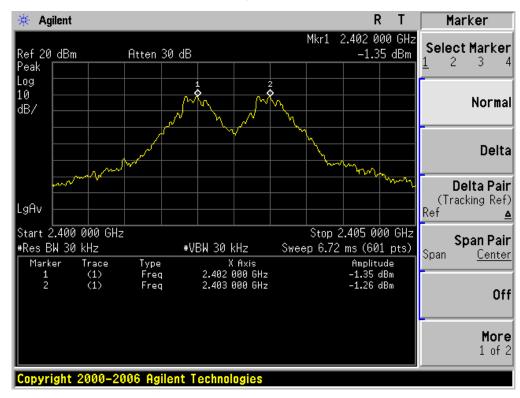
The same as described in section 6.3

14.4. LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT
	KHz	KHz	Dane
CH00-CH01	1000	>=25 KHz or 2/3 20 dB BW	Pass

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TEST PLOT FOR FREQUENCY SEPARATION



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15. FCC LINE CONDUCTED EMISSION TEST

15.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Francis	Maximum RF	Line Voltage
Frequency	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

15.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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15.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

- 2. Support equipment, if needed, was placed as per ANSI C63.4.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by PC which received 120V/60Hzpower by a LISN...
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

15.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

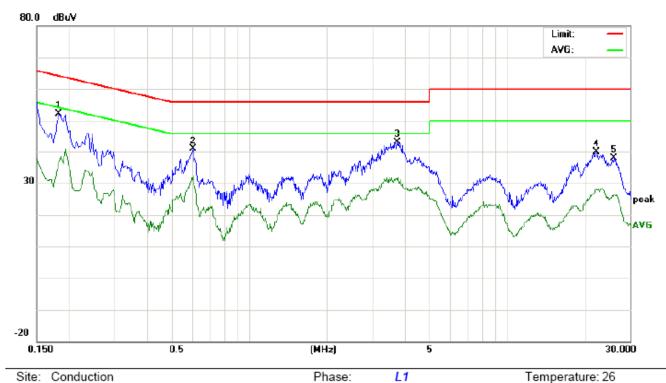
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

Humidity: 60 %

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15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



Site: Conduction

Limit: FCC Class B Conduction(QP)

EUT:Bluetooh Wireless Keyboard

M/N:K560

Mode:Normal operation

Note:

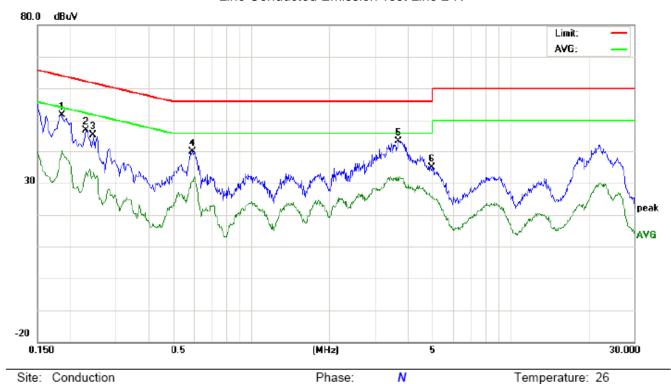
No.	Freq.	I- (d		Reading_Level (dBuV)		Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
	(MHz)		QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1819	41.83		25.98	10.20	52.03		36.18	64.39	54.39	-12.36	-18.21	Р	
2	0.6060	30.55		21.96	10.31	40.86		32.27	56.00	46.00	-15.14	-13.73	Р	
3	3.7540	32.68		20.59	10.47	43.15		31.06	56.00	46.00	-12.85	-14.94	Р	
4	22.2420	29.64		17.64	10.12	39.76		27.76	60.00	50.00	-20.24	-22.24	Р	
5	25.9619	27.82		16.21	10.11	37.93		26.32	60.00	50.00	-22.07	-23.68	Р	

Power:

Humidity: 60 %

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Line Conducted Emission Test Line 2-N



Site: Conduction

Limit: FCC Class B Conduction(QP)

EUT:Bluetooh Wireless Keyboard

M/N:K560

Mode:Normal operation

Note:

No.	Freq.	Reading_Lev (dBuV)			evel Correct Factor		Measurement (dBuV)			Limit (dBuV)		rgin IB)	P/F	Comment
	(MHz)		Peak QP AVG		dB	Peak	Peak QP AV		QP	AVG	QP AVG			
1	0.1860	41.52		29.97	10.20	51.72		40.17	64.21	54.21	-12.49	-14.04	Р	
2	0.2300	36.58		23.16	10.25	46.83		33.41	62.45	52.45	-15.62	-19.04	Р	
3	0.2460	35.14		23.18	10.27	45.41		33.45	61.89	51.89	-16.48	-18.44	Р	
4	0.5940	29.63		20.40	10.32	39.95		30.72	56.00	46.00	-16.05	-15.28	Р	
5	3.7060	32.83		21.31	10.48	43.31		31.79	56.00	46.00	-12.69	-14.21	Р	
6	4.9859	44.86		29.57	10.24	55.10		39.81	56.00	46.00	-0.90	-6.19	Р	

Power:

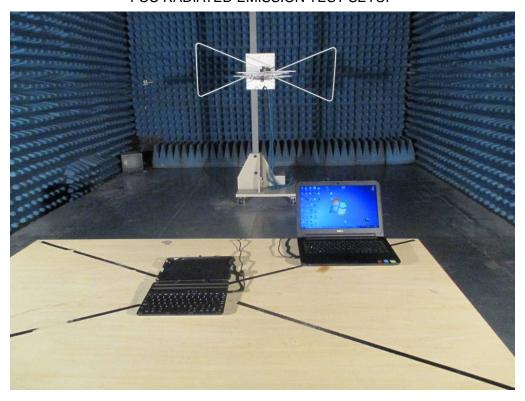
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

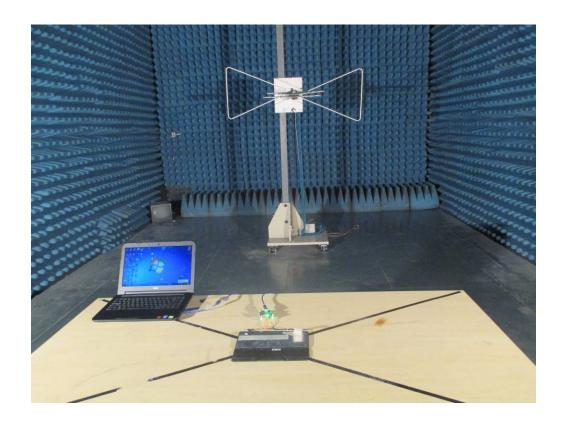
FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP



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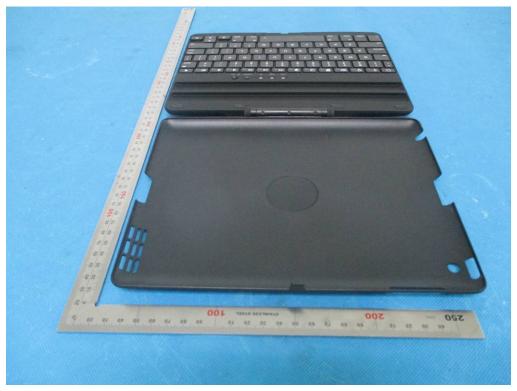
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APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT



TOP VIEW OF EUT



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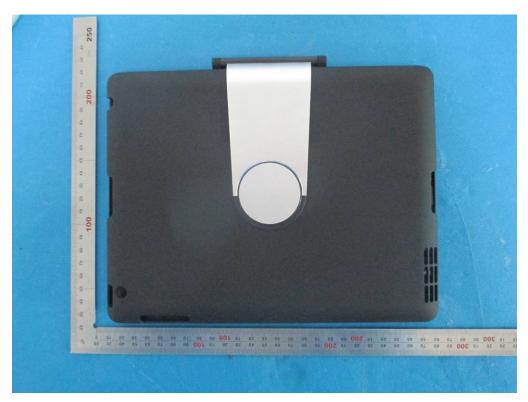
BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



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LEFT VIEW OF EUT



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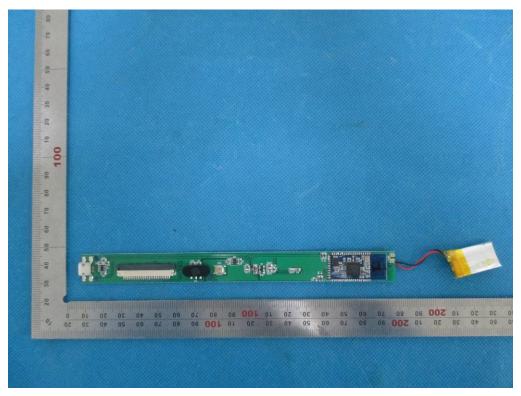
RIGHT VIEW OF EUT



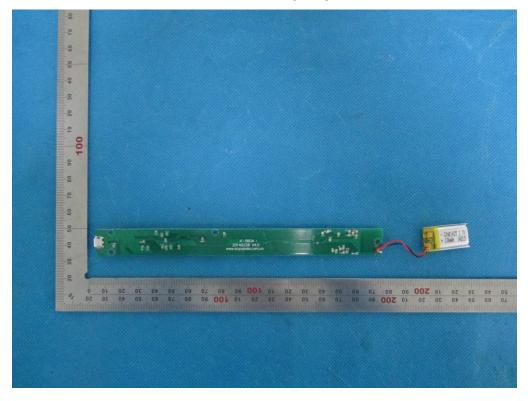
OPEN VIEW OF EUT



INTERNAL VIEW OF EUT-1

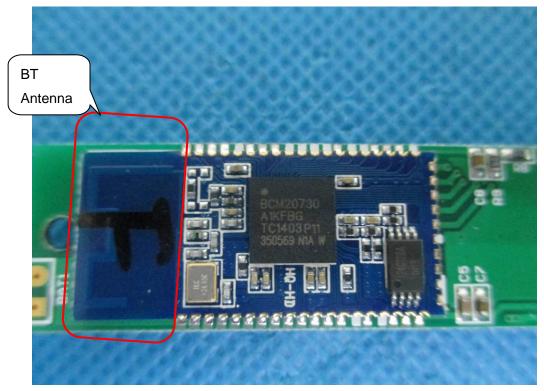


INTERNAL VIEW OF EUT-2



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INTERNAL VIEW OF EUT-3



----END OF REPORT----