

FCC Test Report

Report No.: AGC00803210906FE03

FCC ID	: 2AKHJ-HB330B
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: Bluetooth Keyboard
BRAND NAME	: N/A
MODEL NAME	: НВ330В, НВ330
APPLICANT	: Shenzhen Hangshi Technology Co., Ltd
DATE OF ISSUE	: Nov. 01, 2021
STANDARD(S)	: FCC Part 15.247
REPORT VERSION	: V1.0



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 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com

Web: http://cn.agc-cert.com/



Report No.: AGC00803210906FE03 Page 2 of 59

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	. /	Nov. 01, 2021	Valid	Initial Release

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 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



TABLE OF CONTENTS

	1. VERIFICATION OF CONFORMITY	5
	2. GENERAL INFORMATION	6
	2.1. PRODUCT DESCRIPTION	6
	2.2. TABLE OF CARRIER FREQUENCYS	6
	2.3. RECEIVER INPUT BANDWIDTH	7
	2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE	7
	2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR	7
	2.6. RELATED SUBMITTAL(S) / GRANT (S)	8
	2.7. TEST METHODOLOGY	8
	2.8. SPECIAL ACCESSORIES	8
	2.9. EQUIPMENT MODIFICATIONS	8
	2.10. ANTENNA REQUIREMENT	8
	3. MEASUREMENT UNCERTAINTY	9
	4. DESCRIPTION OF TEST MODES	10
	5. SYSTEM TEST CONFIGURATION	11
	5.1. CONFIGURATION OF EUT SYSTEM	11
	5.2. EQUIPMENT USED IN TESTED SYSTEM	11
	5.3. SUMMARY OF TEST RESULTS	11
	6. TEST FACILITY	12
	7. PEAK OUTPUT POWER	13
	7.1. MEASUREMENT PROCEDURE	13
	7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	13
	7.3. LIMITS AND MEASUREMENT RESULT	
	8. 20DB BANDWIDTH	
	8.1. MEASUREMENT PROCEDURE	16
	8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	16
	8.3. LIMITS AND MEASUREMENT RESULTS	
	9. CONDUCTED SPURIOUS EMISSION	19
	9.1. MEASUREMENT PROCEDURE	19
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Report No.: AGC00803210906FE03 Page 4 of 59

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
9.3. MEASUREMENT EQUIPMENT USED	
9.4. LIMITS AND MEASUREMENT RESULT	
10. RADIATED EMISSION	
10.1. MEASUREMENT PROCEDURE	
10.2. TEST SETUP	
10.3. LIMITS AND MEASUREMENT RESULT	
10.4. TEST RESULT	
11. NUMBER OF HOPPING FREQUENCY	
11.1. MEASUREMENT PROCEDURE	
11.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	
11.3. MEASUREMENT EQUIPMENT USED	
11.4. LIMITS AND MEASUREMENT RESULT	40
12. TIME OF OCCUPANCY (DWELL TIME)	41
12.1. MEASUREMENT PROCEDURE	
12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	
12.3. MEASUREMENT EQUIPMENT USED	
12.4. LIMITS AND MEASUREMENT RESULT	
13. FREQUENCY SEPARATION	
13.1. MEASUREMENT PROCEDURE	
13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	
13.3. MEASUREMENT EQUIPMENT USED	
13.4. LIMITS AND MEASUREMENT RESULT	
14. LINE CONDUCTED EMISSION TEST	
14.1. LIMITS OF LINE CONDUCTED EMISSION TEST	
14.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	
14.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	
14.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	
14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	
APPENDIX B: PHOTOGRAPHS OF EUT	

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Hangshi Technology Co., Ltd		
Address Hangshi Technology Park, Democracy West Industry Area, Shajin Bao'an District, Shenzhen, China			
Manufacturer	Shenzhen Hangshi Technology Co., Ltd		
Address	Hangshi Technology Park, Democracy West Industry Area, Shajing Town, Bao'an District, Shenzhen, China		
Factory	Shenzhen Hangshi Technology Co., Ltd		
Address	Hangshi Technology Park, Democracy West Industry Area, Shajing Town, Bao'an District, Shenzhen, China		
Product Designation Bluetooth Keyboard			
Brand Name	N/A		
Test Model	HB330B		
Series Model	HB330		
Declaration of Difference	All the same except for the model name.		
Date of test	Sep. 29, 2021 to Oct. 28, 2021		
Deviation	No any deviation from the test method		
Condition of Test Sample	Normal		
Test Result	Pass		
Report Template	AGCRT-US-BR/RF		

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 C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC PART 15.247.

Prepared By

keny chon

Kelly Cheng (Project Engineer)

Oct. 28, 2021

Reviewed By

n Lin

Calvin Liu (Reviewer)

Oct. 28, 2021

Approved By

Max Zhang

Max Zhang (Authorized Officer)

Oct. 28, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Bluetooth Keyboard". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency 2.402 GHz to 2.480 GHz		
RF Output Power	-3.846dBm (Max)	
Bluetooth Version	V5.1	
Modulation BR ⊠GFSK, EDR □π /4-DQPSK, □8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps		
Number of channels 79		
Hardware Version HB330-T01-PCB		
Software Version V1.0		
Antenna DesignationPCB Antenna (Comply with requirements of the FCC part 15.203)		
Antenna Gain 1.87dBi		
Power Supply DC 3.7V by battery or DC 5V by adapter		

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	0	2402 MHz
		2403 MHz
	d c	
	38	2440 MHz
2402~2480MHz	39	2441 MHz
	40	2442 MHz
6		
	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 multi slot 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 hopping sequence in data mode: 40, 21, 44, 23, 04, 15, 66, 56, 19, 78, 07, 28, 69, 55, 36, 45, 05, 13, 43, 74, 57, 35, 67, 76, 02, 34, 54, 63, 42, 11, 30, 06, 64, 25, 75, 48, 17, 33, 58, 01, 29, 14, 51, 72, 03, 31, 50, 61, 77, 18, 10, 47, 12, 68, 08, 49, 20, 00, 73, 09, 16, 60, 71, 41, 24, 53, 38, 26, 46, 37, 65, 32, 70, 52, 27, 59, 22, 62, 39

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 behavior action with other units only offset is 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 bits 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 the Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following behavior:

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.

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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.

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

This submittal(s) (test report) is intended for **FCC ID: 2AKHJ-HB330B** filing to comply with the FCC PART 15.247 requirements.

2.7. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). 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.

2.10. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y \pm U, where expended uncertainty U is based on a standard

uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty	
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 3.1 \text{ dB}$	
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0 \text{ dB}$	
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.8 \text{ dB}$	
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$	
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$	
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$	
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$	

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4. DESCRIPTION OF TEST MODES

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

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.
- 3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

Software Setting

e Edit View Transport N	Window Help			
Log Window event = 0xE (14, "Co Num_HCI_Command_Pack Command_Opcode = 0xF Status = 0x0 (0, "Su 29:05.202 coml c> Tx_ HCI com	ets = 0x1 (1) C51 (64593, "Tx_Tes ccess") Test	HCI Control: com1@115200nfc F HCI protocal active [0: Vendor-specific Nold URX & CTS low Reset ANN reset UN fact Anna Class_Config UN fact Ta		
[21 LC 10]: FF 06	HCI Command: Tx_Test (co			
Local_Device_BD_AD	Local_Device_BD_ADDR: Hopping_Mode:		7910191406EE 💌 Single frequency 💌	OK Cancel
Modulation_Type = Logical_Channel =	Frequency: Modulation Type:		2402 MHz 💌	
BB Packet Length =	Modulation_type: Logical_Channel:		ACL Basic V	
HCI C	BB_Packet_Type: BB_Packet_Length (0-65535; F	'irmware will limit len to max for BB_Packet_Type):	DH5 / 3-DH5 •	
event = 0xE (14, "	Tx_Power_Level: Transmit_Power_dBm (-128 to	127: dBm):	0 dBm	•
Command_Opcode = 0 Status = 0x0 (0, "Su	ccess")	Write_LOD_Loopback_Mode Write_Codes_Loopback_Mode Write_Test_Tone FMU_Brite_Charger_Config FMU_Brite_Synchronous_Pecket_Type Andia_Concein_Tone_Concerd	, , , , , , , , , , , , , , , , , , ,	

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:

EUT

Conducted Emission Configure:

EUT	C A	AE

5.2. EQUIPMENT USED IN TESTED SYSTEM

ltem	Equipment	Model No.	ID or Specification	Remark
1	Bluetooth Keyboard	HB330B	2AKHJ-HB330B	EUT
2	PC	NbI-WAQ9R		AE
3	PC adapter	HW-200200CP1		AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(1)	Peak Output Power	Compliant
15.247 (a)(1)	20 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.209	Radiated Emission	Compliant
15.247 (a)(1)(iii)	Number of Hopping Frequency	Compliant
15.247 (a)(1)(iii)	Time of Occupancy	Compliant
15.247 (a)(1)	Frequency Separation	Compliant
15.207	Conducted Emission	Compliant

Note: The BT function can transmit when charging.

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd		
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China		
Designation Number	CN1259		
FCC Test Firm Registration Number	975832		
A2LA Cert. No.	5054.02		
Description	Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA		

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 15, 2021	May 14, 2022
LISN	R&S	ESH2-Z5	100086	Jun. 09, 2021	Jun. 08, 2022
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2021	May 14, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.15, 2021	Sep. 14, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2022
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

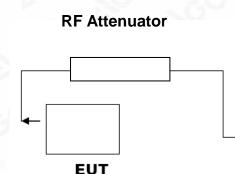
For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 3. RBW > 20 dB bandwidth of the emission being measured.
- 4. VBW \geq RBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

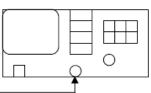
Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

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

PEAK POWER TEST SETUP







RF Cable

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7.3. LIMITS AND MEASUREMENT RESULT

	Test Data of Conducted Output Power				
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail	
e G	2402	-3.846	\$21	Pass	
GFSK	2441	-4.767	\$21	Pass	
	2480	-6.298	\$21	Pass	

Test Graphs of Conducted Output Power



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Report No.: AGC00803210906FE03 Page 15 of 59





03:49:42 PM Oct 29, 2021 Frequency Avg Type: Log-Pw Avg|Hold: 100/100 Center Freq 2.480000000 GHz Trig: Free Run #Atten: 40 dB PNO: Fast IFGain:Low Auto Tune Mkr1 2.479 827 GHz -6.298 dBm Ref 20.00 dBm 0 dB/div **Center Freq** 2.48000000 GHz <mark>ا</mark> Start Freq 2.477500000 GHz Stop Freq 2.482500000 GHz CF Step 500.000 kHz Auto Mar **Freq Offset** 0 H; Center 2.480000 GHz #Res BW 1.5 MHz Span 5.000 MHz Sweep 1.066 ms (1000 pts) #VBW 5.0 MHz Test_Graph_BR_ANT1_2480_1Mbps_Peak Power

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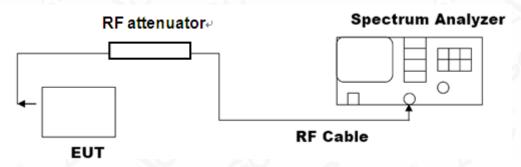


8. 20DB BANDWIDTH

8.1. 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. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping channel The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

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



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8.3. LIMITS AND MEASUREMENT RESULTS

Test Data of Occupied Bandwidth and -20dB Bandwidth					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-20dB Bandwidth (MHz)	Limits	Pass or Fail
- 6	2402	0.969	1.041	N/A	Pass
GFSK	2441	0.958	1.034	N/A	Pass
	2480	0.956	1.039	N/A	Pass

Test Graphs of Occupied Bandwidth and -20 Bandwidth



Test_Graph_BR_ANT1_2402_1Mbps_OBW

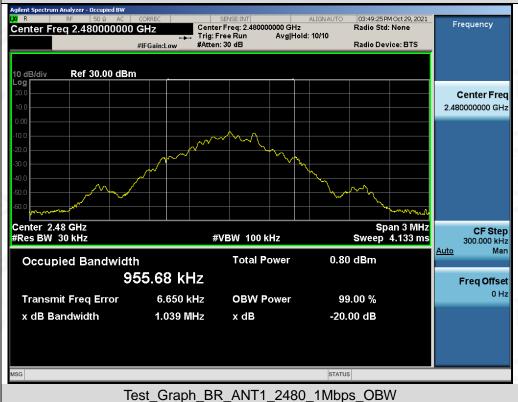
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated frame/inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC in the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15da/Castra the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.



Report No.: AGC00803210906FE03 Page 18 of 59



Test_Graph_BR_ANT1_2441_1Mbps_OBW



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9. CONDUCTED SPURIOUS EMISSION

9.1. 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. 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= 300 kHz; Sweep = auto; Detector function = peak.
- 4. 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				
Annlinghia Limita	Measurement Result			
Applicable Limits	Test Data	Criteria		
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS		
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. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -20dBc than the limit Specified on the TOP Channel	PASS		

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Freq Offset 0 Hz

Stop 2.390 GHz

Sweep 226.0 ms (30000 pts)





Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands

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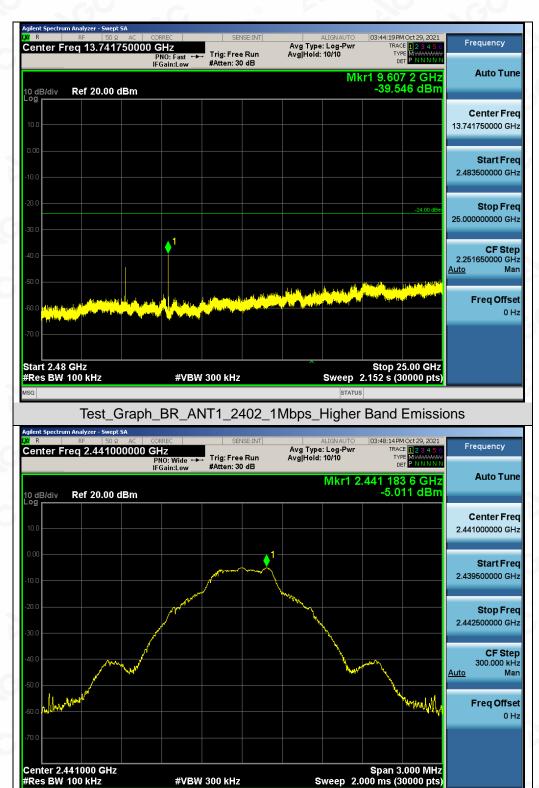
Test_Graph_BR_ANT1_2402_1Mbps_Lower Band Emissions

#VBW 300 kHz

Start 30 MHz #Res BW 100 kHz

Report No.: AGC00803210906FE03 Page 21 of 59



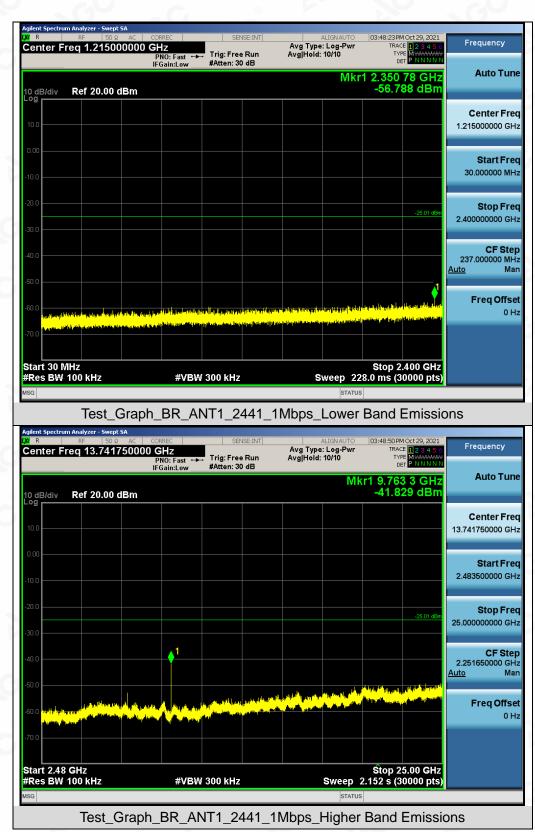


Test_Graph_BR_ANT1_2441_1Mbps_Reference Level

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Report No.: AGC00803210906FE03 Page 22 of 59

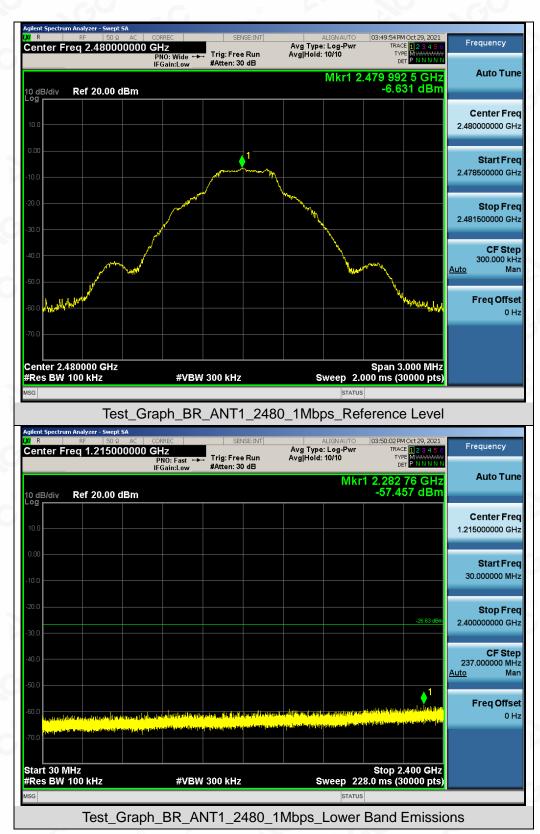




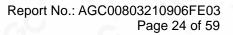
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Report No.: AGC00803210906FE03 Page 23 of 59

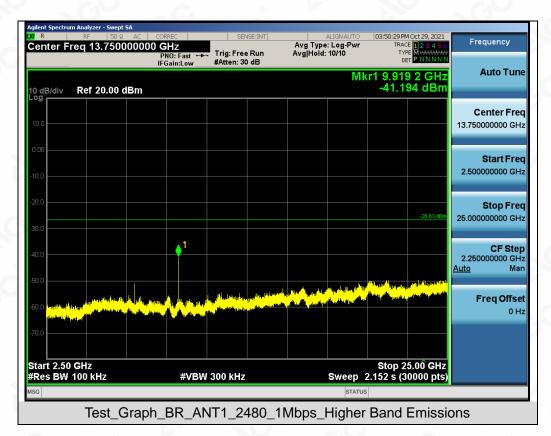




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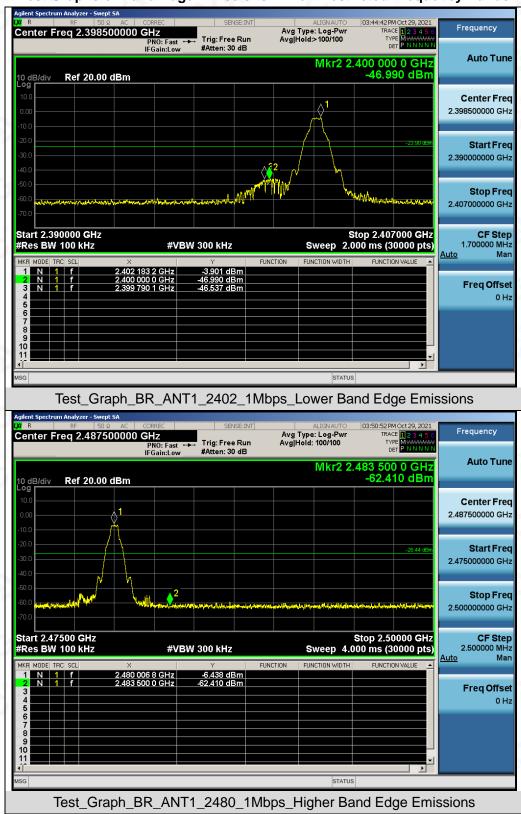
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 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



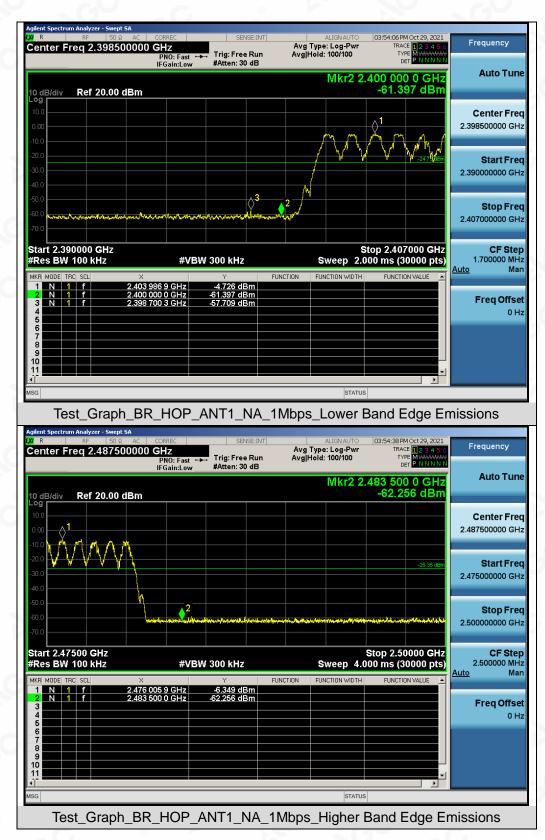


Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands

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Report No.: AGC00803210906FE03 Page 26 of 59





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10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 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 emission, 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 RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 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/3MHz for Peak, 1MHz/3MHz 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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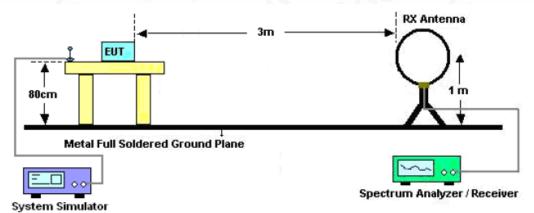
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 E-mail: agc@agc-cert.com
 Web: http://cn.agc-cert.com/

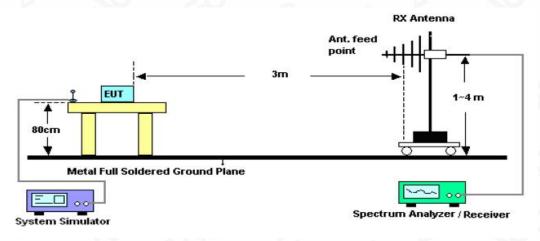


10.2. TEST SETUP

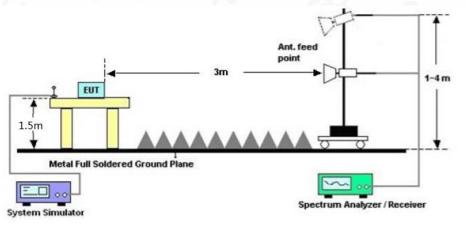
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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10.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

10.4. TEST RESULT

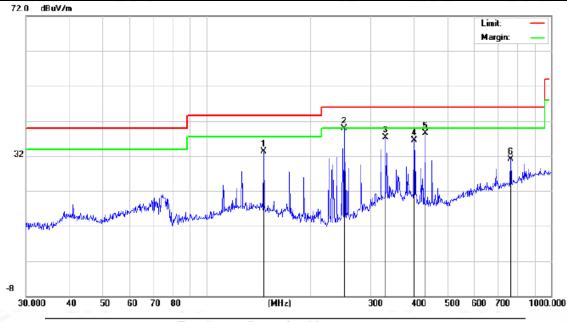
Radiated emission below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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EUT	Bluetooth Keyboard	Model Name	HB330B
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		146.8877	21.25	12.14	33.39	43.50	-10.11	peak
2	*	251.1804	31.43	8.46	39.89	46.00	-6.11	peak
3		331.3546	25.37	11.90	37.27	46.00	-8.73	peak
4		400.4319	22.55	13.97	36.52	46.00	-9.48	peak
5		431.0316	24.58	13.98	38.56	46.00	-7.44	peak
6		763.3757	12.08	18.95	31.03	46.00	-14.97	peak

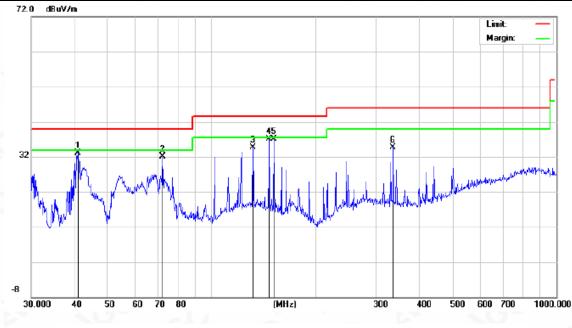
RESULT: PASS

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Report No.: AGC00803210906FE03 Page 32 of 59

EUT	Bluetooth Keyboard	Model Name	HB330B
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	40.8446	23.22	9.94	33.16	40.00	-6.84	peak
	72.0843	20.54	11.66	32.20	40.00	-7.80	peak
1	131.7577	21.63	13.12	34.75	43.50	-8.75	peak
1	146.8877	24.64	12.53	37.17	43.50	-6.33	peak
* 1	151.5972	25.13	12.05	37.18	43.50	-6.32	peak
3	336.0352	20.51	14.29	34.80	46.00	-11.20	peak
	*	MHz 40.8446 72.0843 131.7577 146.8877	Mk. Freq. Level MHz dBuV 40.8446 23.22 72.0843 20.54 131.7577 21.63 146.8877 24.64 * 151.5972 25.13	Mk. Freq. Level Factor MHz dBuV dB 40.8446 23.22 9.94 72.0843 20.54 11.66 131.7577 21.63 13.12 146.8877 24.64 12.53 * 151.5972 25.13 12.05	Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m 40.8446 23.22 9.94 33.16 72.0843 20.54 11.66 32.20 131.7577 21.63 13.12 34.75 146.8877 24.64 12.53 37.17 * 151.5972 25.13 12.05 37.18	Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV/m dBuV/m 40.8446 23.22 9.94 33.16 40.00 72.0843 20.54 11.66 32.20 40.00 131.7577 21.63 13.12 34.75 43.50 146.8877 24.64 12.53 37.17 43.50 * 151.5972 25.13 12.05 37.18 43.50	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB dBuV/m dB 40.8446 23.22 9.94 33.16 40.00 -6.84 72.0843 20.54 11.66 32.20 40.00 -7.80 131.7577 21.63 13.12 34.75 43.50 -8.75 146.8877 24.64 12.53 37.17 43.50 -6.33 * 151.5972 25.13 12.05 37.18 43.50 -6.32

RESULT: PASS

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

2. All test modes had been pre-tested. The mode 1 is the worst case and recorded in the report.

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Radiated emission above 1GHz

EUT	Bluetooth Keyboard	Model Name	HB330B
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency 💿	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.000	46.23	0.08	46.31	74	-27.69	peak
4804.000	36.54	0.08	36.62	54	-17.38	AVG
7206.000	41.29	2.21	43.5	74 💿	-30.5	peak
7206.000	32.33	2.21	34.54	54	-19.46	AVG
						20
emark:		10		8		

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	Bluetooth Keyboard	Model Name	HB330B	
Temperature	25°C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	Mode 1	Antenna	Vertical	

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Value Type
4804.000	46.23	0.08	46.31	74	-27.69	peak
4804.000	35.87	0.08	35.95	54	-18.05	AVG
7206.000	39.41	2.21	41.62	74	-32.38	peak
7206.000	30.22	2.21	32.43	54	-21.57	AVG
		- 0	0			
8				3		
emark:	(A)					
actor = Anter	nna Factor + Cable	Loss - Pre-	amplifier.		C.	3

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Report No.: AGC00803210906FE03 Page 34 of 59

EUT	Bluetooth Keyboard	Model Name	HB330B
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4880.000	44.29	0.14	44.43	74	-29.57	peak
4880.000	36.13	0.14	36.27	54	-17.73	AVG
7320.000	40.16	2.36	42.52	74	-31.48	peak
7320.000	30.58	2.36	32.94	54	-21.06	AVG
66		6		200	0	8
emark:	0	C)			NO T	e G
ctor = Anter	na Factor + Cab	e Loss – Pre-	amplifier.	Q		

EUT	Bluetooth Keyboard	Model Name	НВ330В
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4880.000	46.25	0.14	46.39	74	-27.61	peak
4880.000	37.42	0.14	37.56	54	-16.44	AVG
7320.000	40.13	2.36	42.49	74	-31.51	peak
7320.000	30.59	2.36	32.95	54	-21.05	AVG
		2.0			J.	6
emark:				0		
actor = Anten	na Factor + Cable	Loss – Pre-a	amplifier.	- 6	®	

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Report No.: AGC00803210906FE03 Page 35 of 59

EUT	Bluetooth Keyboard	Model Name	HB330B
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	45.19	0.22	45.41	74	-28.59	peak
4960.000	35.64	0.22	35.86	54	-18.14	AVG
7440.000	43.16	2.64	45.8	74	-28.2	peak
7440.000	32.94	2.64	35.58	54	-18.42	AVG
C.	G			C.	®	
69		8			- C.	8
emark:	0		8		< C _	- 6

EUT	Bluetooth Keyboard	Model Name	HB330B
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4960.000	46.23	0.22	46.45	74	-27.55	peak
4960.000	36.94	0.22	37.16	54	-16.84	AVG
7440.000	41.51	2.64	44.15	74	-29.85	peak
7440.000	32.92	2.64	35.56	54	-18.44	AVG
emark:				<u> </u>	0	

Factor = Antenna Factor + Cable Loss – Pre-amplifier

RESULT: PASS

Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

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Report No.: AGC00803210906FE03 Page 36 of 59

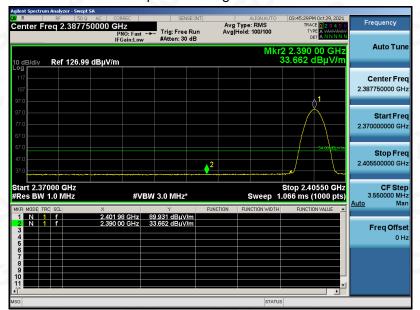
EUT	Bluetooth Keyboard	Model Name	HB330B	
Temperature	25°C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	Mode 1	Antenna	Horizontal	

Test result for band edge emission at restricted bands

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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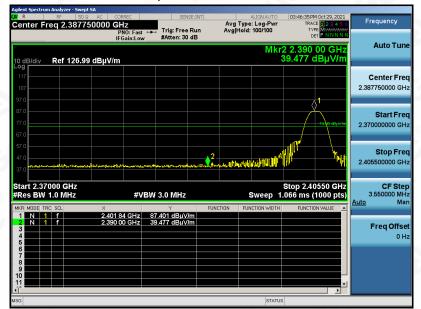
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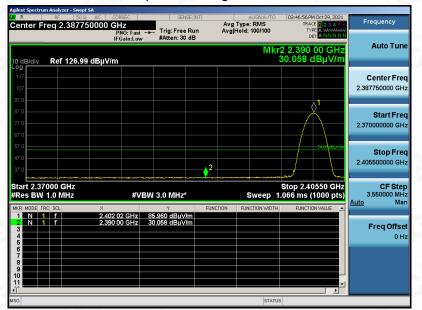
Report No.: AGC00803210906FE03 Page 37 of 59

EUT	Bluetooth Keyboard	Model Name	HB330B
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

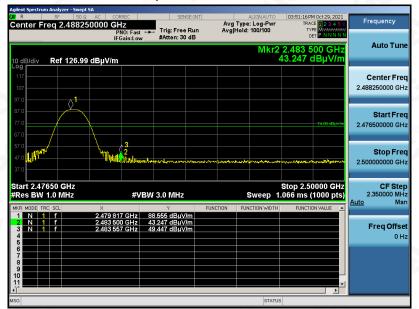
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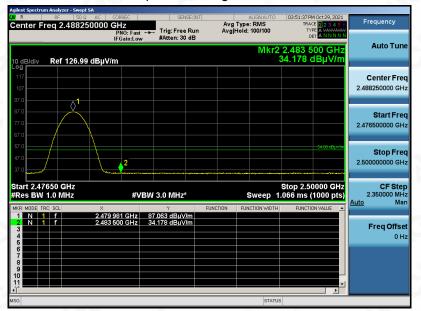
Report No.: AGC00803210906FE03 Page 38 of 59

EUT	Bluetooth Keyboard	Model Name	HB330B
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

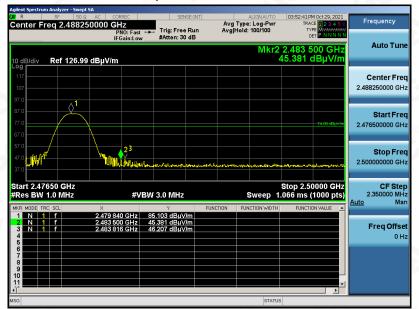
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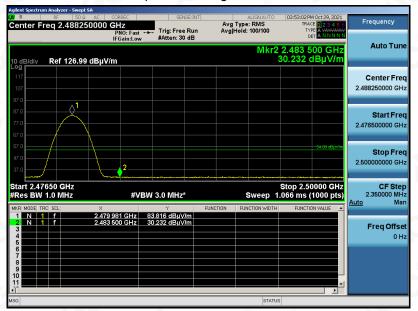
Report No.: AGC00803210906FE03 Page 39 of 59

EUT	Bluetooth Keyboard	Model Name	HB330B
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Test Graph for Peak Measurement



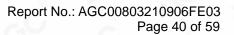
Test Graph for Average Measurement



RESULT: PASS

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

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11. NUMBER OF HOPPING FREQUENCY

11.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.

2. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

3. VBW \geq RBW. Sweep: Auto. Detector function: Peak. Trace: Max hold.

4. Allow the trace to stabilize.

11.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

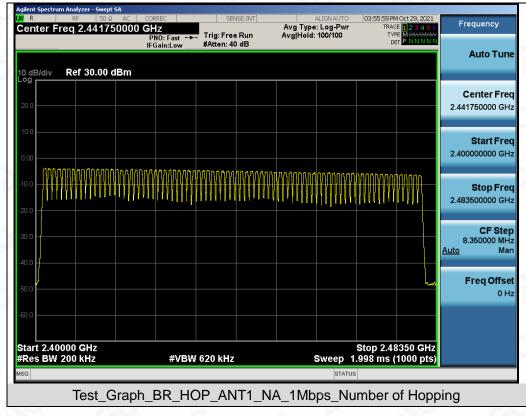
11.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

11.4. LIMITS AND MEASUREMENT RESULT

Test Data of Number of Hopping Frequency						
Test Mode Number of Hopping Frequency Limits Pass or Fail						
GFSK Hopping	79	>=15	Pass			

Test Graphs of Number of Hopping Frequency



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12. TIME OF OCCUPANCY (DWELL TIME)

12.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Zero span, centered on a hopping channel.

2. RBW shall be \leq channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.

3. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.

4. Detector function: Peak. Trace: Max hold.

5. Use the marker-delta function to determine the transmit time per hop.

6. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

(Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) \times (period specified in the requirements / analyzer sweep time)

7. The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements.

12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

12.3. MEASUREMENT EQUIPMENT USED

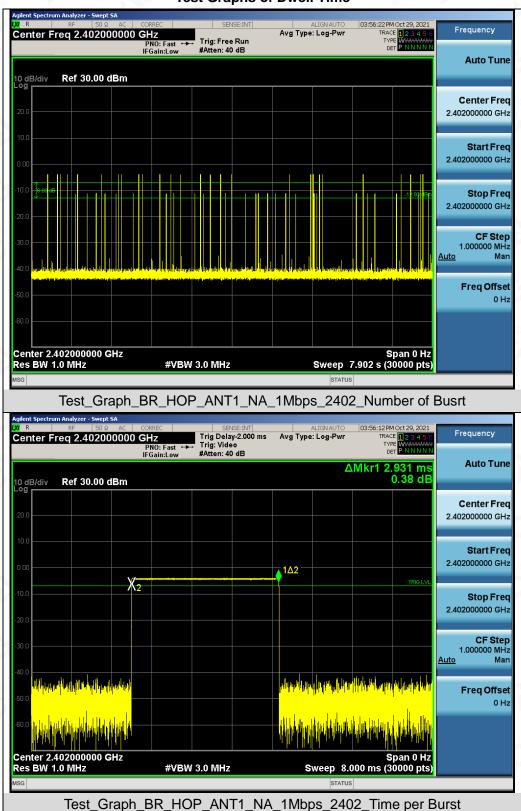
The same as described in section 6

12.4. LIMITS AND MEASUREMENT RESULT

Test Data of Dwell Time							
Channel	Time of Pulse for DH5 (ms)	Number of hops in the period specified in the requirements	Sweep Time (ms)	Limit (ms)	Pass or Fail		
2402	2.931	27.0*4	316.548	400	Pass		
2441	2.931	25.0*4	293.100	400	Pass		
2480	2.932	16.0*4	187.648	400	Pass		

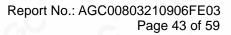
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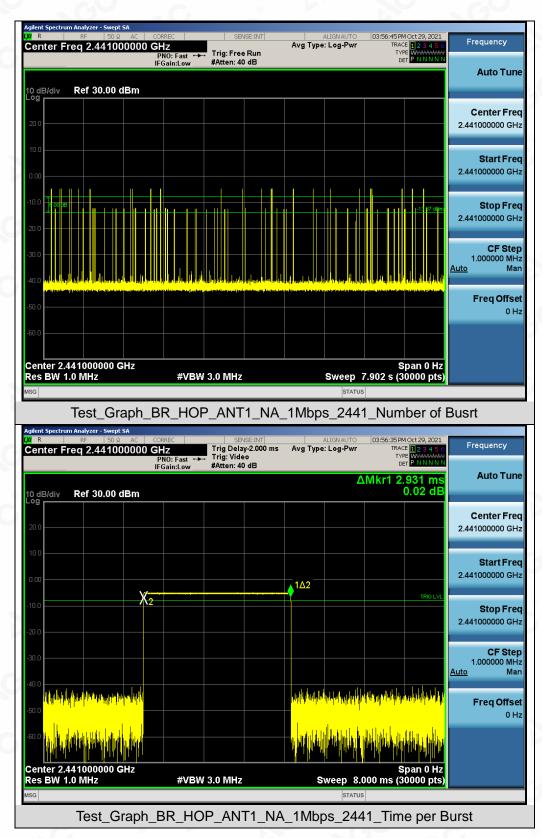


Test Graphs of Dwell Time

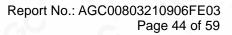
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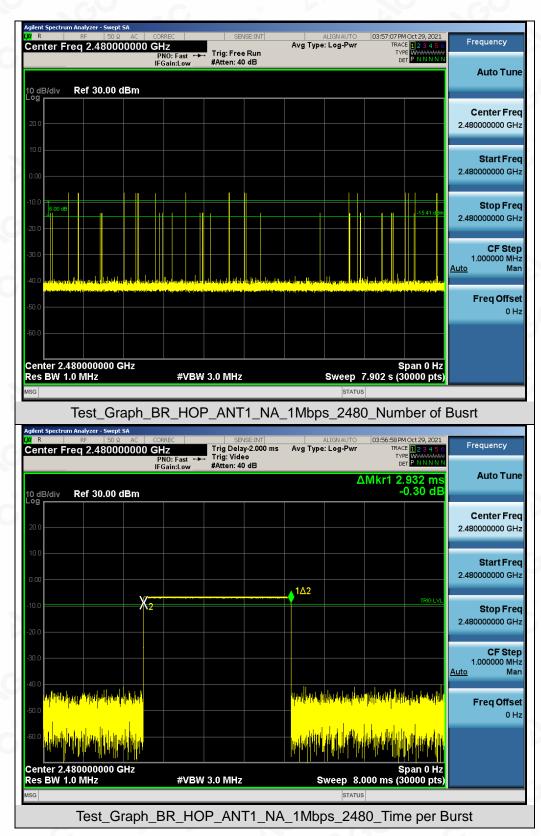




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13. FREQUENCY SEPARATION

13.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Wide enough to capture the peaks of two adjacent channels.

2. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.

3. Video (or average) bandwidth (VBW) \geq RBW.

4. Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

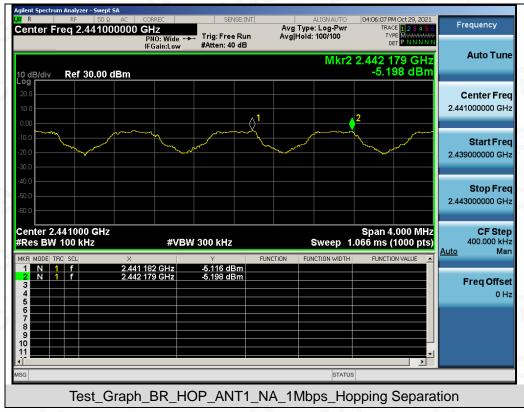
Same as described in section 6.2

13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

13.4. LIMITS AND MEASUREMENT RESULT

	Test Data of Frequency Separation					
Test Mode	Channel Separation (MHz)	Limits	Pass or Fail			
GFSK Hopping	0.997	>= 2/3 -20dB BW	Pass			



Test Graphs of Number of Hopping Frequency

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14. LINE CONDUCTED EMISSION TEST

14.1. LIMITS OF LINE CONDUCTED EMISSION TEST

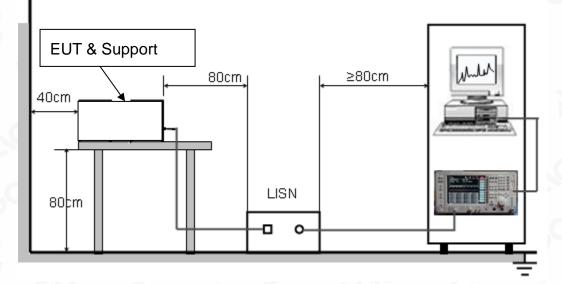
Francianau	Maximum RF Line Voltage			
Frequency	Q.P. (dBµV)	Average (dBµV)		
150kHz~500kHz	66-56	56-46		
500kHz~5MHz	56	46		
5MHz~30MHz	60	50		

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.

14.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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14.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

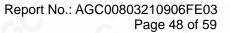
- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground 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 C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from 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.

14.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

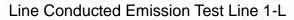
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used 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.

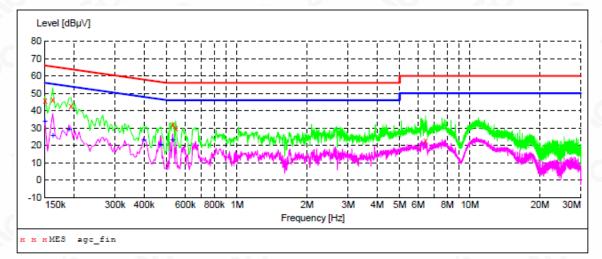
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14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST





MEASUREMENT RESULT: "agc_fin"

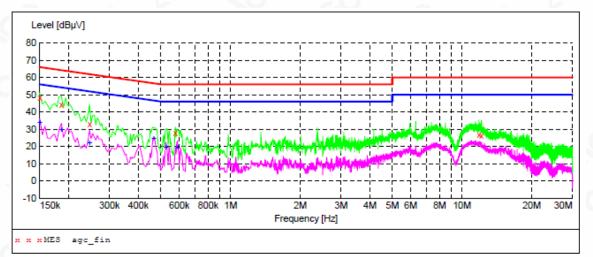
:09					
Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
45.70	6.9	66	20.3	QP	Ν
46.00	6.8	65	19.4	QP	Ν
42.70	6.6	64	21.2	QP	Ν
31.80	5.4	56	24.2	QP	Ν
30.00	5.4	56	26.0	QP	N
22.80	6.7	60	37.2	QP	Ν
	Level dBµV 45.70 46.00 42.70 31.80 30.00	Level Transd dBµV dB 45.70 6.9 46.00 6.8 42.70 6.6 31.80 5.4 30.00 5.4	Level Transd Limit dBµV dB dBµV 45.70 6.9 66 46.00 6.8 65 42.70 6.6 64 31.80 5.4 56 30.00 5.4 56	Level Transd Limit Margin dBμV dB dBμV dB 45.70 6.9 66 20.3 46.00 6.8 65 19.4 42.70 6.6 64 21.2 31.80 5.4 56 24.2 30.00 5.4 56 26.0	Level Transd Limit Margin Detector dBµV dB dBµV dB 45.70 6.9 66 20.3 QP 46.00 6.8 65 19.4 QP 42.70 6.6 64 21.2 QP 31.80 5.4 56 24.2 QP 30.00 5.4 56 26.0 QP

MEASUREMENT RESULT: "agc fin2"

2021/9/30 10:	09					
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.150000	33.80	6.9	56	22.2	AV	N
0.162000	25.90	6.8	55	29.5	AV	N
0.190000	29.20	6.6	54	24.8	AV	N
0.398000	23.20	5.7	48	24.7	AV	N
0.470000	20.80	5.5	47	25.7	AV	N
0.530000	23.10	5.4	46	22.9	AV	Ν

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Line Conducted Emission Test Line 2-N

MEASUREMENT RESULT: "agc fin"

2021/9/30	10:06					
Frequenc	y Level	Transd	Limit	Margin	Detector	Line
MH	iz dBµV	dB	dBµV	dB		
0.15000	0 48.10	6.9	66	17.9	QP	L1
0.18600	0 44.30	6.6	64	19.9	QP	L1
0.24600	0 32.70	6.3	62	29.2	QP	L1
0.57800	0 27.80	5.4	56	28.2	QP	L1
11.84600	26.80	7.5	60	33.2	QP	L1
12.15000	0 26.40	7.6	60	33.6	QP	L1

MEASUREMENT RESULT: "agc fin2"

06					
Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
33.90	6.9	56 54			L1 L1
22.20	6.3	52	29.7	AV	L1
19.80	5.4	46	26.2	AV	L1 L1 L1
	Level dBµV 33.90 30.00 22.20 24.40	Level Transd dBµV dB 33.90 6.9 30.00 6.6 22.20 6.3 24.40 5.5 19.80 5.4	Level Transd Limit dBµV dB dBµV 33.90 6.9 56 30.00 6.6 54 22.20 6.3 52 24.40 5.5 47 19.80 5.4 46	Level Transd Limit Margin dBµV dB dBµV dB 33.90 6.9 56 22.1 30.00 6.6 54 24.2 22.20 6.3 52 29.7 24.40 5.5 47 22.2 19.80 5.4 46 26.2	Level Transd Limit Margin Detector dBμV dB dBμV dB dB dB 33.90 6.9 56 22.1 AV 30.00 6.6 54 24.2 AV 22.20 6.3 52 29.7 AV 24.40 5.5 47 22.2 AV 19.80 5.4 46 26.2 AV

RESULT: PASS

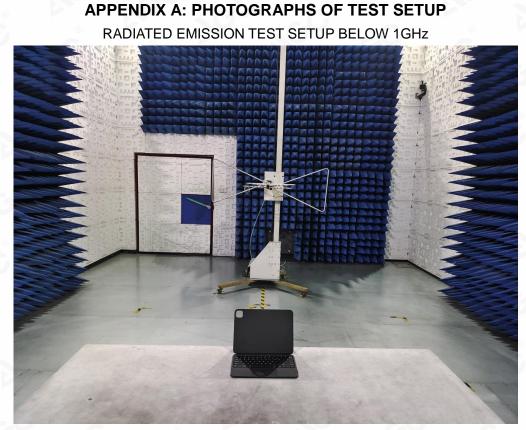
Note: All the test modes had been tested, the mode 1 was the worst case. Only the data of the worst case would be record in this test report.

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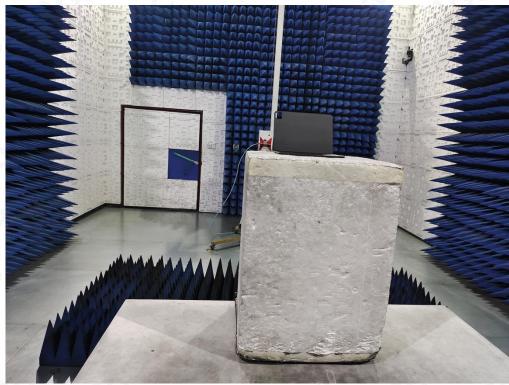
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Report No.: AGC00803210906FE03 Page 50 of 59



RADIATED EMISSION TEST SETUP ABOVE 1GHz



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 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com

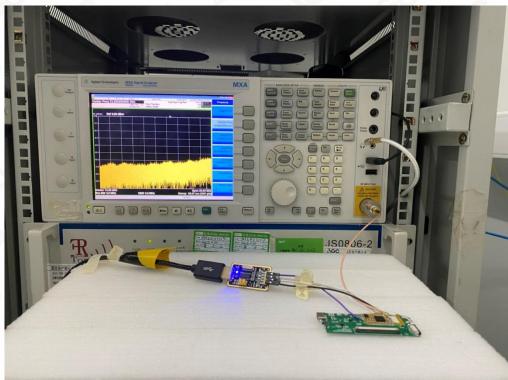


Report No.: AGC00803210906FE03 Page 51 of 59



CONDUCTED EMISSION TEST SETUP

CONDUCTED TEST SETUP



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 E-mail: agc@agc-cert.com