

# **FCC Test Report**

Report No.: AGC00803200801FE02

FCC ID	8	2AKHJ-HD126
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Bluetooth Keyboard
BRAND NAME		N/A
MODEL NAME	i	HD126
APPLICANT		Shenzhen Hangshi Technology Co.,Ltd
DATE OF ISSUE	8	Sep. 17, 2020
STANDARD(S)	:	FCC Part 15.247
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		Sep. 17, 2020	Valid	Initial Release

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#### **1. VERIFICATION OF COMPLIANCE**

Applicant	Shenzhen Hangshi Technology Co.,Ltd		
Address	Hangshi Technology Park, Democracy West Industry Area, Shajing Town, 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	HD126		
Date of test	Aug. 20, 2020 to Sep. 04, 2020		
Deviation	No any deviation from the test method		
Condition of Test Sample	Normal		
Test Result	Pass		
Report Template	AGCRT-US-BLE/RF		
We bereby cortify that:			

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.

Then Hurry Prepared By Thea Huang Sep. 04, 2020 (Project Engineer) Max Zhang **Reviewed By** Max Zhang Sep. 17, 2020 (Reviewer) fores Approved By Forrest Lei Sep. 17, 2020 (Authorized Officer)

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# 2. GENERAL INFORMATION

#### 2.1. PRODUCT DESCRIPTION

The EUT is designed as a "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 2.480GHz
RF Output Power	-0.627dBm (Max)
Bluetooth Version	V4.2
Modulation	BR □GFSK, EDR □π /4-DQPSK, □8DPSK BLE ⊠GFSK 1Mbps □GFSK 2Mbps
Number of channels	40 Channel
Antenna Designation	PCB Antenna (Comply with requirements of the FCC part 15.203)
Antenna Gain	2.34dBi
Hardware Version	V1.1
Software Version	V1.0
Power Supply	DC 2.4V by battery
Note: The EUT doesn't suppo	ort BR/EDR.

#### 2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	0	2402 MHz
		2404 MHz
2400~2483.5MHz		
	38	2478 MHz
	39	2480 MHz

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#### 2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID:2AKHJ-HD126** filing to comply with the FCC Part 15.247 requirements.

#### 2.4. 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.

#### 2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

#### 2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

#### 2.7. 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%.

- Uncertainty of Conducted Emission, Uc = ±3.1 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±4.0 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted,  $Uc = \pm 0.8 dB$
- Uncertainty of RF power density, conducted, Uc = ±2.6 dB
- Uncertainty of spurious emissions, conducted,  $Uc = \pm 2.7 \text{ dB}$
- Uncertainty of Occupied Channel Bandwidth:  $Uc = \pm 2 \%$

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#### 4. DESCRIPTION OF TEST MODES

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

#### 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.
- 4. For battery operated equipment, the equipment tests are performed using a new battery.

	st Mode Tool						
COM Po:	Configuration	Refresh	Transmit R Ix Power Payload Mo				dBn
-Mode	usmitter OR	eceiver	Payload Le		PRBS9 37		Byte
Single	channel Multiple o	channels :	Common Rad Run Time PHY	io Contro	0 LE 1Mbr	)s	: ns
			Receiver R		C		
			Packet Err				
Log Lv. 1 12:37:15	INFO> Port PM	Length	Packet Bro Power	Channel			
12:37:15 12:37:15 12:37:15 12:37:15 12:37:15 12:37:15 12:37:15 12:37:50		37 - ter test	4	Channel 19			

Software Setting

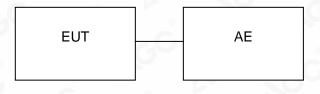
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# 5. SYSTEM TEST CONFIGURATION

#### 5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:

EUT	AE

#### 5.2. EQUIPMENT USED IN TESTED SYSTEM

ltem	Equipment	Model No.	ID or Specification	Remark
1	Bluetooth Keyboard	HD126	2AKHJ-HD126	EUT
2	Control Box	N/A	USB-TTL	AE

#### **5.3. SUMMARY OF TEST RESULTS**

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	Not applicable

Note: The conducted emission tests at AC port are not required for devices which only employ battery power for operation.

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## 6. TEST FACILITY

Test Site	Test Site         Attestation of Global Compliance (Shenzhen) Co., Ltd		
Location 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Commun 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 RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 09, 2019	Sep. 08, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Oct. 25, 2019	Oct. 26, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 16, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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# 7. PEAK OUTPUT POWER

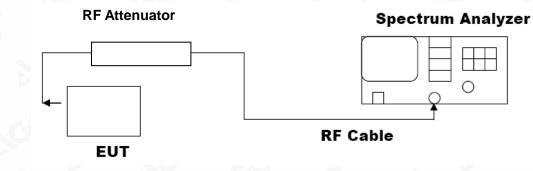
#### 7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW > DTS bandwidth
- 3. VBW≥3\*RBW.
- 4. SPAN≥VBW.
- 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



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#### 7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT											
FOR GFSK MOUDULATION       Frequency     Peak Power     Applicable Limits     Pass or Fail       (GHz)     (dBm)     (dBm)											
2.402	-2.337	30	Pass								
2.440	-1.505	30	Pass								
2.480	-0.627	30	Pass								

CH0

🚺 Keysight Spectrum Analyzer - Swept SA				
Center Freq 2.402000000	CORREC SENSE:IM	Avg Type: Log-Pwr	04:51:26 PM Sep 02, 2020 TRACE 1 2 3 4 5 6	Frequency
10 dB/div Ref 20.00 dBm	PNO: Fast →→ IFGain:Low Trig: Free Run Atten: 30 dB		2.402 205 GHz -2.337 dBm	Auto Tune
10.0		<b>1</b>		Center Freq 2.402000000 GHz
-10.0			Marana and a second and a second	<b>Start Freq</b> 2.399500000 GHz
-20.0				<b>Stop Freq</b> 2.404500000 GHz
-40.0				CF Step 500.000 kHz <u>Auto</u> Man
-60.0				<b>Freq Offset</b> 0 Hz
-70.0 Center 2.402000 GHz #Res BW 1.5 MHz	#VBW 5.0 MHz	Sween	Span 5.000 MHz .000 ms (1001 pts)	
MSG	<b>*****</b> 5.0 Miliz	STATU		

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CH19

CH39

💓 Keysight Spe	ectrum Analyzer - Swept SA RF 50 Ω AC		l estes turk			
	RF 50 Ω AC req 2.48000000	00 GHz	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwi Avg Hold: 100/100		Frequency
		PNO: Fast ++ IFGain:Low	Atten: 30 dB		DET P NNNN	A
10 dB/div Log	Ref 20.00 dBm	1		Mkr	1 2.480 305 GHz -0.627 dBm	Auto Tun
						Center Fre
10.0						2.480000000 GH
0.00			• •	I		
-10.0				and the second sec		Start Fre 2.477500000 G⊢
-10.0					and the state of t	
-20.0	4111					Stop Fre
-30.0						2.482500000 GH
						CF Ste
-40.0						500.000 kH Auto Ma
-50.0						
-60.0						Freq Offs
						0 H
-70.0						
Center 2/	180000 GHz				Span 5.000 MHz	
#Res BW		#VBW	/ 5.0 MHz	Sweep	1.000 ms (1001 pts)	
MSG				STAT	us	

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#### 8.6 DB 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 SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW $\ge$ 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

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

The same as described in section 7.2.

#### 8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT									
Annicable Limite	Applicable Limits								
Applicable Limits	Test Data	Criteria							
Solution of the second se	Low Channel	718.2	PASS						
>500KHZ	Middle Channel	741.5	PASS						
	High Channel	730.0	PASS						

#### 04:51:14 PM Sep 02, 2020 Radio Std: None Center Freq: 2.40200000 GHz Trig: Free Run Avg|Hol #Atten: 30 dB Frequency 402000000 GHz Center Avg|Hold: 100/100 Radio Device: BTS #IFGain:Low Ref 20.00 dBm Center Freq 2.402000000 GHz Center 2.402 GHz Span 3 MHz CF Step #Res BW 100 kHz #VBW 300 kHz Sweep 1 ms 300.000 k Auto Mar **Total Power** 4.97 dBm Occupied Bandwidth 1.9789 MHz Freq Offset 0 H; Transmit Freq Error 126.46 kHz **OBW Power** 99.00 % x dB Bandwidth 718.2 kHz -6.00 dB x dB

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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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 SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

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

The same as described in section 7.2.

#### 9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

#### 9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT									
Applicable Limite	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 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 reference level	PASS							

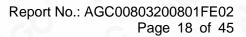
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#### TEST RESULT FOR ENTIRE FREQUENCY RANGE GFSK MODULATION IN LOW CHANNEL

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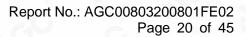
🊺 Keysigh	nt Spectre														
Cente	- Ero	RF		2 AC			SEN	NSE:INT	Ava		LIGN AUTO		M Sep 02, 2020 CE <b>1 2 3 4 5</b>		Frequency
Center	Fie	9	5.74	75000	PNO: Fas IFGain:Lo		Trig: Free Atten: 30			Hold:		TYP			
10 dB/d	iv	Ref	20.00	dBm							Mkr	1 24.244 -47.5	4 2 GHz 60 dBm		Auto Tune
Log 10.0 0.00 -10.0															Center Freq 13.741750000 GHz
-20.0 -30.0 -40.0													-22.44 dBn		<b>Start Freq</b> 2.483500000 GHz
-50.0							lines (especific) addition of the second								<b>Stop Freq</b> 25.000000000 GHz
Start 2 #Res E	3W 10	00 k	Hz	X	#	VBW 3	300 kHz Y		NCTION		Sweep 2	2.152 s (3	5.00 GHz 0000 pts	)	<b>CF Step</b> 2.251650000 GHz <u>Auto</u> Man
					.244 2 GHz		47.560 dE								Freq Offset 0 Hz
MSG											STATUS				

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AL     PF     900 AL     OPEC     9100 AUTO     PERCENT     Auto Tur       Denter Freq 2.440000000 GHz     Presultance     Auto Tur     Auto Tur       OdBANY     Ref 20.00 dBm     -1.637 dBm     Auto Tur       OdBANY     Ref 20.00 dBm     -1.637 dBm     Center Freq 2.44000000 GHz       OdBANY     Ref 20.00 dBm     -1.637 dBm     Center Freq 2.4400000 GHz       OdBANY     Ref 20.00 dBm     -1.637 dBm     Center Freq 2.4400000 GHz       Center Freq 1.24400 022 G GHz     -1.637 dBm     Span 3.000 MHz       Start Freq 2.4400000 GHz     #VEW 300 kHz     Sweep 2.000 ms (30000 pts)       Res BW 100 kHz     X     Y       Freq UBL     X     Y       Start Freq 2.1500000 GHZ     Start Freq 2.4400000 GHZ       Start Freq 2.440000 GHZ     Y       Start Freq 2.121500000 GHZ     Start Freq 3.000 MHz       Start Freq 3.121500000 GHZ     Start Freq 3.000 MHz       Start Start Freq 3.121500000 GHZ     Start Freq 3.121500000 GHZ       Start Start Start Freq 3.121500000 GHZ     Start Freq 3.121500000 GHZ       Start	Res		DULATION		DDLE CI	HANNI		
Particle Prod 2.44000000 CH2 Particle View 2000 dBm Particle View 2000 dBm	Keysight Spectrum Analyzer - Swept K		SENSE:INT		ALIGN AUTO	04:55:59 Pf	4 Sep 02, 2020	
Mikr1 2.440 022 6 GHz -1.637 dBm -1.637		000 GHz PNO: Wide ↔	Trig: Free Run		ype: Log-Pwr	TRAC	E 1 2 3 4 5 6	Frequency
lo de la de					Mkr1 2	440 022	2 6 GHz	Auto Tun
100       0	10 dB/div Ref 20.00 dB	m				-1.6	37 dBm	
000000000000000000000000000000000000								Conton Eng
100       0			<b>↓</b> 1					
200       0				~				2.440000000 GI
301       4       4       4       4       4       4       2,3350000 GH       2,3350000 GH       2,3350000 GH       2,3350000 GH       2,3350000 GH       2,3350000 GH       2,4150000 GH       2,4150000 GH       2,4150000 GH       C C F Ste       300,000 HH       5       5       5       0       C C F Ste       300,000 HH       C C F Ste       300,000 HH       MM       1       1       2,4410,022 G GHZ       1,557 GBm       FUNCTION		and the state of t			www.			
903       Image: Stop Free       Stop Free         904       Image: Stop Free       Stop Free         905       I	and the second sec				W	Astrono Maria	HALMAN	
600       7	-40.0							2.4000000000
Bill       2.441500000 GHz         Span 3.000 KHz       Sweep 2.000 ms (30000 pts)         Sweep 2.000 ms (30000 pts)       Sweep 2.000 ms (30000 pts)         Mill       1       2.44150000 GHz         Sweep 2.000 ms (30000 pts)       Sweep 2.000 ms (30000 pts)         Mill       1       2.44150000 GHz         Sweep 2.000 ms (30000 pts)       Sweep 2.000 ms (30000 pts)         Mill       1       2.4410 022 6 GHz         Sweep 2.000 ms (30000 pts)       Sweep 2.000 ms (3000 pts)         Sweep 2.000 ms (3000 pts)       Sweep 2.000 ms (3000 pts)         Sweep 2.000 ms (3000 pts)       Sweep 2.000 ms (3000 pts)         Sweep 2.000 ms (3000 pts)       Sweep 2.000 ms (3000 pts)         Sweep 2.000 ms (3000 pts)       Sweep 2.000 ms (3000 pts)         Sweep 2.000 ms (3000 pts)       Start 10         Sweep 2.000 ms (3000 pts)       Start 11         Start 11       Sweep 2.200 gts         Start 11	-50.0							04 E
700	-60.0							
RRE BW 100 kHz       #VEW 300 kHz       Sweep 2.000 ms (30000 pts)         Auto       Auto       Auto         Y       FUNCTION       FUNCTION WOTH       FUNCTION WOTH <th< td=""><td>-70.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.44100000 GI</td></th<>	-70.0							2.44100000 GI
RRE BW 100 kHz       #VEW 300 kHz       Sweep 2.000 ms (30000 pts)         Auto       Auto       Auto         Y       FUNCTION       FUNCTION WOTH       FUNCTION WOTH <th< td=""><td>Center 2 440000 GHz</td><td></td><td></td><td></td><td></td><td>Snan 3</td><td>000 MHz</td><td>CE Ste</td></th<>	Center 2 440000 GHz					Snan 3	000 MHz	CE Ste
1       N       1       7       2.440.022.6 GHz       -1.637.dBm       Freq.Offs         2       3       1       7       1.637.dBm       Freq.Offs       0         3       1       1       1       1.637.dBm       Freq.Offs       0         3       1       1       1       1       1.637.dBm       Freq.Offs       0         3       1	#Res BW 100 kHz					00 ms (3	0000 pts)	300.000 k⊢
23       1				FUNCTION	FUNCTION WIDTH	FUNCTIO	ON VALUE	
6         7								Freq Offse
6       8       1							-	0 H
8       Image: Status         9       Image: Status	6							
10       Image: Status         SG       Istatus         SG       Istatus         Keysight Spectrum Analyzer - Swept SA       RL         RL       RF       S0 GO         SG       Status         Center Freq 1.215000000 GHz PR0: Fast → Trig: Free Run IFGain:Low       Aug Type: Log-Pwr Avg Type: Log-Pwr -51.577 dBm       Trace D 2.4 Status         00       Global With Ref 20.00 dBm       -51.577 dBm       -51.577 dBm         00       Global With Ref 20.00 dBm       -51.577 dBm       -51.577 dBm         00       Global With Ref 20.00 dBm       -51.577 dBm       -51.577 dBm         00       Global With Ref 20.00 dBm       -51.577 dBm       -51.577 dBm         00       Global With Ref 20.00 dBm       -51.577 dBm       -51.577 dBm         00       -51.577 dBm       -51.577 dBm       -51.577 dBm         01       -51.577 dBm       -51.577 dBm       -51.577 dBm         01       -51.577 dBm       -51.577 dBm       -51.577 dBm         02       -51.577 dBm       -51.577 dBm       -51.577 dBm         01       1       1       1       -51.577 dBm         01       1       -51.577 dBm       -51.577 dBm       -51.577 dBm         01       1	8							
Image: Section analyzer - Swept SA       Image: Status         Reveloptic Spectrum Analyzer - Swept SA       Reveloptic Section analyzer - Swept SA         RL       Reveloptic Spectrum Analyzer - Swept SA       Aug Type: Log-Pwr Avg Type: Log-Pwr PNO: Fast → Trig: Free Run Atten: 30 dB       Avg Type: Log-Pwr Avg Type: Log-Pwr Statt S0 dB       Trig: Free Run Atten: 30 dB         0 dB/div       Ref 20.00 dBm       -51.577 dBm       -51.577 dBm         10 of B/div       Ref 20.00 dBm       -51.577 dBm       -51.577 dBm         10 of B/div       1       -51.577 dBm       -51.577 dBm         10 of B/div       -51.577 dBm       -51.577 dBm       -51.577 dBm         10 of B/div       -51.577 dBm       -51.577 dBm       -51.577 dBm         11 of 1.220 02 GHz       -51.577 dBm       -51.577 dBm       -51.577 dBm         11 of 1.220 02 GHz       -51.577 dBm       -51.577 dBm       -51.577 dBm         11 of 1.220 02 GHz       -51.577 dBm       -51.577 dBm       -51.577 dBm         11 of 1.220 02 GHz       -51.577 dBm       -51.577 dBm       -51.577 dBm         11 of 1.220 02 GHz       -51.577 dBm       -51.577 dBm       -51.577 dBm	10							
Keysight Spectrum Analyzer - Swept SA         ALIGN AUTO         (e4:56:08 PM Sep 02, 2020)         Frequency           Center Freq 1.215000000 CHZ PNO: Fast IFGain:Low         Trig: Free Run Atten: 30 dB         Avg Type: Log-Pwr Avg]Hold: 10/10         Trice: [2:3:4:50]         Frequency           0 dB/div         Ref 20.00 dBm         -51.577 dBm         -51.577 dBm         Center Fre 1.215000000 GF           0 dB/div         Ref 20.00 dBm         -51.577 dBm         -51.577 dBm         Start Fre 30.00000 MH           0 dB/div         Ref 20.00 dBm         -51.577 dBm         -51.577 dBm         -51.577 dBm           0 dB/div         Ref 20.00 dBm         -51.577 dBm         -51.577 dBm         -51.577 dBm           0 dB/div         Ref 20.00 dBm         -51.577 dBm         -51.577 dBm         -51.577 dBm           0 dB/div         -51.577 dBm         -51.577 dBm         -51.577 dBm         -51.577 dBm           0 dB/div         -51.577 dBm         -51.577 dBm         -51.577 dBm         -51.577 dBm           1 f         -51.577 dBm         -51.577 dBm         -51.577 dBm         -51.577 dBm         -51.577 dBm           1 f         -52.00 GHz         -51.577 dBm         -51.577 d	11							
R.L         PF         SO Q. AC         CORREC         SENSE:INT         AUTO         04:56:08 PM Sep 02,2020           Center Freq 1.215000000 GHz PNO: Fast FGain:Low         Trig: Free Run Atten: 30 dB         Avg Type: Log-Pwr AvglHold: 10/10         Trig: Q. 20 4.3 Trig: Tree Run Atten: 30 dB         Avg Type: Log-Pwr AvglHold: 10/10         Trig: Tree Quency           100 dB/div         Ref 20.00 dBm         -51.577 dBm         -51.577 dBm         -71.6427         -71.6427           200         -51.577 dBm         -51.577 dBm         -51.577 dBm         -51.577 dBm         -51.577 dBm           100         -51.612 - 4.3 -51.577 dBm         -51.577 dBm         -51.577 dBm         -51.577 dBm           110         -51.577 dBm         -51.577 dBm         -51.577 dBm         -51.577 dBm	MSG				STATUS			
Center Freq 1.215000000 GHz PNO: Fast PNO: Fa		SA				•		
PNO: Fast       Trig: Free Run Atten: 30 dB       Avg Hold: 10/10       Image: Run Free Run Start 1.220 02 GHz       Auto Tur         0 dB/div       Ref 20.00 dBm       Center Free 1.21500000 GH       Center Free 1.21500000 GH       Center Free 1.21500000 GH       Center Free 1.21500000 GH         0 dB/div       Ref 20.00 dBm       Center Free 1.21500000 GH       Center Free 1.21500000 GH       Start Free 30.00000 MH         0 dB/div       Ref 20.00 dBm       Center Free 1.21500000 GH       Start Free 30.00000 MH       Start Free 30.00000 MH         0 dB/div       Ref 20.00 dBm       Start Free 30.00000 MH       Start Free 30.00000 MH       Start Free 30.00000 MH         0 dB/div       Ref 20.00 dHz       Stop Free 2.400000000 GH       Stop Free 2.40000000 GH       Stop Free 2.40000000 GH         0 dB/div       Ref 20.00 dHz       Y       FUNCTION       FUNCTION VALUE       Stop Free 2.40000000 GH         1 dB/div       RVBW 300 kHz       Stop Free Start 30 MHz       Free Offs       Stop Free 2.40000000 GH       Stop Free 2.40000000 GH         1 dB/div       Y       FUNCTION       FUNCTION VALUE       Free Offs       Stop Free 2.40000000 GH			SENSE:INT	Avg T		TRAC	E 1 2 3 4 5 6	Frequency
Mkr1 1.220 02 GHz -51.577 dBm       Auto Tur         0 dB/div       Ref 20.00 dBm       Center Fre 1.21500000 GH         0 dB/div       Ref 20.00 dBm       Center Fre 1.21500000 GH         0 dB/div       Ref 20.00 dBm       Center Fre 1.21500000 GH         0 dB/div       Ref 20.00 dBm       Start Fre 30.00000 MH         1 dB/div       Ref 20.00 dBm       Start Fre 30.00000 MH         Start 30 MHz       WDW 300 kHz       Stop 2.400 GHz Start 30 MHz         1 N       1 f       1.220 02 GHz       -51.577 dBm         1 N       1 f       1.220 02 GHz       -51.577 dBm         1 N       1 f       1.220 02 GHz       -51.577 dBm         1 N       1 f       1.220 02 GHz       -51.577 dBm         1 N       1 f       1.220 02 GHz       -51.577 dBm         1 N       1 f       1.22		PNO: Fast 🔸		Avg H	old: 10/10	TYP	PE MWWWWW T P N N N N N	
0 B/div       Ref 20.00 dBm       -51.577 dBm         0 g       -99       -99       -51.577 dBm         100       -99       -99       -99       -99         100       -99       -99       -99       -99         100       -99       -99       -99       -99       -99         100       -99       -99       -99       -99       -99       -99         100       -99		ii odinizoni			Mkr	1 1.220	02 GHz	Auto Tun
100       Image: Control of the second of the	10 dB/div Ref 20.00 dB	m				-51.5	77 dBm	
0.00       0.00								Conton Eng
100       .21.64.69         200       .21.64.69         300       .21.64.69         400       .1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
200								
30.0       30.0       30.00000 MH         40.0       1       1       30.00000 MH         50.0       1       1       1       1       1       1         50.0       1<	-20.0						-21.64 dBm	Otest Ess
400       1	-30.0							30.000000 MH
Stop         Stop <th< td=""><td>-40.0</td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td></th<>	-40.0		1					
2.40000000 GH       70.0       1        1	-50.0							Stop Fro
You       Stop 2.400 GHz         Start 30 MHz       #VBW 300 kHz       Stop 2.400 GHz         #Res BW 100 kHz       #VBW 300 kHz       Sweep 228.0 ms (30000 pts)         MKR MODE TRC SCL       X       Y       FUNCTION       FUNCTION WDTH       FUNCTION VALUE         1       1       1       1.220 02 GHz       -51.577 dBm       Freq Offs         3	-60.0					ر مرجع الأسبوبية المحالية المرجع مرجع الأربوبية محالية المحالية المحالية المحالية المحالية المحالية المحالية الم		2.400000000 GH
#Res BW 100 kHz     #VBW 300 kHz     Sweep     228.0 ms (30000 pts)       MKR MODE TRC SCL     X     Y     FUNCTION     FUNCTION WIDTH     FUNCTION VALUE       1     1     1     1.220 02 GHz     -51.577 dBm       2     3     -     -     -       3     -     -     -     -       6     -     -     -     -       7     -     -     -     -       8     -     -     -     -	-70.0 Annual and a second s	a hine and a second						
#Res BW 100 kHz     #VBW 300 kHz     Sweep     228.0 ms (30000 pts)       MKR MODE TRC SCL     X     Y     FUNCTION     FUNCTION WIDTH     FUNCTION VALUE       1     1     1     1.220 02 GHz     -51.577 dBm       2     3     -     -     -       3     -     -     -     -       6     -     -     -     -       7     -     -     -     -       8     -     -     -     -	Start 30 MHz					Stop 2	.400 GHz	CF Ste
MRR MODE TRC SCL X Y Y FUNCTION FUNCTION WIDTH FUNCTION VALUE 1 N 1 f 1:220 02 GHz -51.577 dBm Freq Offso Fr	#Res BW 100 kHz	#VBN	/ 300 kHz		Sweep 22			237.000000 MH
2     2     2     Freq Offset       3     3     3     3       4     3     3     3       5     3     3     3       6     3     3     3       7     3     3     3       9     3     3     3	MKR MODE TRC SCL			FUNCTION	FUNCTION WIDTH	FUNCTION	ON VALUE	Ma Ma
	2	1.220 02 GH2	-51.577 GBM					Erea Offer
5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	4							
7     Image: Sector Secto							E	
	7							
SG STATUS	10						-	

Compliance Dedicated Fe Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated res Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written extincrization of AG presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day Safter the issues Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com. g/Inspection The test results Bf ne test report.





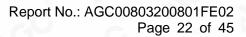
	pectrum Analyzer - Swo						
Center F	RF 50 Ω Freq 13.7417		SEN	NSE:INT	ALIGN AUTO	04:56:32 PM Sep 02, 202 TRACE 1 2 3 4	
Center	1/eq 15.74 m		Trig: Free Low Atten: 30	eRun Avg	g Hold: 10/10		Auto Turpo
10 dB/div	Ref 20.00 (	dBm			Mkr	1 24.357 5 GH -48.781 dBr	2
Log 10.0 0.00 -10.0							<b>Center Freq</b> 13.741750000 GHz
-20.0 -30.0 -40.0						21.64 dB	Start Freq 2.483500000 GHz
-50.0							<b>Stop Freq</b> 25.00000000 GHz
Start 2.4 #Res BW	V 100 kHz	#	#VBW 300 kHz	FUNCTION	Sweep 2	Stop 25.00 GH 2.152 s (30000 pt FUNCTION VALUE	2 CF Step 2.251650000 GHz Auto Man
1 N 2 3 4 5 6 7 9 9 10 11	1 f	× 24.357 5 GH					Freq Offset 0 Hz
MSG					STATUS	3	

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	GESK				
Keysight Spectrum Analyzer -		05105 107			
enter Freq 2.480	PNO: Wide	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>10/10	04:59:02 PM Sep 02, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N	Frequency
	IFGain:Low	Atten: 30 dB			
			Mkr1 2	.480 041 3 GHz -0.720 dBm	
0 dB/div Ref 20.0	0 dBm			-0.720 aBm	
10.0		1-			Center Fred
0.00		<b>\</b>			2.48000000 GHz
10.0					
20.0			- Annual -		Oterst Error
30.0	Mary providence of the state of		<b>`</b> \	Varianter	Start Fred 2.478500000 GHz
40.0 mm				A A A A A A A A A A A A A A A A A A A	2.478500000 6112
50.0					
60.0					Stop Fred
70.0					2.481500000 GHz
Center 2.480000 G⊦ ¢Res BW 100 kHz		SW 300 kHz	Sweep 2.0	Span 3.000 MHz 000 ms (30000 pts)	300.000 kHz
MKR MODE TRC SCL	Х	Y	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Man
1 N 1 f	2.480 041 3 GHz	-0.720 dBm			
3					Freq Offset
4 5				=E	0 Hz
6 7					
8					
9					
10					
10 11					
		m	STATUS		
SG	Swart SA	m	STATUS	5	
SG SG Keysight Spectrum Analyzer - RL RF 5(	0 Ω AC CORREC	m SENSE:INT	ALIGN AUTO	04:59:12 PM Sep 02, 2020	Ergulency
SG Keysight Spectrum Analyzer - RL RF 5(	0 Ω AC CORREC	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	04:59:12 PM Sep 02, 2020	Frequency
SG Keysight Spectrum Analyzer -	0 Ω AC CORREC	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:59:12 PM Sep 02, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N	Frequency
SG SG Keysight Spectrum Analyzer - RL RF 5(	0 Ω AC CORREC 000000 GHz PNO: Fast	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:59:12 PM Sep 02, 2020 TRACE 2 3 4 5 6 TYPE MUMUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	Frequency
11	0 Ω AC CORREC 000000 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:59:12 PM Sep 02, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N	Frequency
11 Sa Keysight Spectrum Analyzer - RL RF St Center Freq 1.215	0 Ω AC CORREC 000000 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:59:12 PM Sep 02, 2020 TRACE 2 3 4 5 6 TYPE MUMUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	Frequency Auto Tune
11 SG Keysight Spectrum Analyzer- RL RF SC Center Freq 1.215 0 dB/div Ref 20.0 0 dB/div Ref 20.0	0 Ω AC CORREC 000000 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:59:12 PM Sep 02, 2020 TRACE 2 3 4 5 6 TYPE MUMUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	Frequency Auto Tune Center Freq
11 SG Keysight Spectrum Analyzer- RL RF SC Center Freq 1.215 0 dB/div Ref 20.0 0 dB/div Ref 20.0 0 dB/div Ref 20.0	0 Ω AC CORREC 000000 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:59:12 PM Sep 02, 2020 TRACE 2 3 4 5 6 TYPE MUMUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	Frequency Auto Tune Center Freq
11	0 Ω AC CORREC 000000 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:59:12 PM Sep 02, 2020 TRACE 2 3 4 5 6 TYPE MUMUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	Frequency Auto Tune Center Freq 1.215000000 GHz
11	0 Ω AC CORREC 000000 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:59:12PM Sep 02, 2020 TRACE 1 2 3 4 5 6 TYPE M WWWWW OCT PNNNNN 1 1.240 00 GHz -51.248 dBm	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq
11	0 Ω AC CORREC 000000 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:59:12PM Sep 02, 2020 TRACE 1 2 3 4 5 6 TYPE M WWWWW OCT PNNNNN 1 1.240 00 GHz -51.248 dBm	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq
11 SG Keysight Spectrum Analyzer - RL RF St Center Freq 1.215 O dB/div Ref 20.0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O	0 Ω AC CORREC 000000 GHz PNO: Fast IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:59:12PM Sep 02, 2020 TRACE 1 2 3 4 5 6 TYPE M WWWWW OCT PNNNNN 1 1.240 00 GHz -51.248 dBm	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq
11	0 Ω AC CORREC 000000 GHz PNO: Fast IFGain:Low 0 dBm	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:59:12PM Sep 02, 2020 TRACE 1 2 3 4 5 6 TYPE M WWWWW OCT PNNNNN 1 1.240 00 GHz -51.248 dBm	Frequency Auto Tune Center Frec 1.215000000 GHz Start Frec 30.000000 MHz
11 SG Keysight Spectrum Analyzer - RL RF St Center Freq 1.215 O dB/div Ref 20.0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O 0 O	0 Ω AC CORREC 000000 GHz PNO: Fast IFGain:Low 0 dBm	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:59:12PM Sep 02, 2020 TRACE 1 2 3 4 5 6 TYPE M WWWWW OCT PNNNNN 1 1.240 00 GHz -51.248 dBm	Frequency Auto Tune Center Frec 1.215000000 GHz Start Frec 30.000000 MHz Stop Frec
11	0 Ω AC CORREC 000000 GHz PNO: Fast IFGain:Low 0 dBm	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:59:12PM Sep 02, 2020 TRACE 1 2 3 4 5 6 TYPE M WWWWW OCT PNNNNN 1 1.240 00 GHz -51.248 dBm	Frequency Auto Tune Center Frec 1.215000000 GHz Start Frec 30.000000 MHz Stop Frec
11	0 Ω AC CORREC 000000 GHz PNO: Fast IFGain:Low 0 dBm	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	04:59:12PM Sep 02, 2020 TRACE 1 2 3 4 5 6 TYPE M WWWWW OCT PNNNNN 1 1.240 00 GHz -51.248 dBm	Frequency Auto Tune Center Freq 1.215000000 GHz 30.000000 MHz Stop Freq 2.400000000 GHz
11	0 Ω AC CORREC OU0000 GHz PNO: Fast IFGain:Low 0 dBm	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	04:59:12 PM Sep 02, 2020 TRACE 1, 2, 3, 4, 5 TYPE M.WWWW 05 PM NN NN N 1, 1.240, 00 GHz -51.248 dBm -51.248 dBm -2072 dBm -2072 dBm -2072 dBm -2072 dBm -2072 dBm	Frequency           Auto Tune           Center Freq           1.215000000 GHz           Start Freq           30.000000 MHz           Stop Freq           2.400000000 GHz           CF Step           237.000000 MHz
11	Ω     AC     CORREC       000000     GHz       PNO: Fast       IFGain:Low         0         dBm         IFGain:Low	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	04:59:12 PM Sep 02, 2020 TRACE 1 2 3 4 5 6 TYPE MUMMAN DET PNNNNN 1 1.240 00 GHz -51.248 dBm -20 72 dBn -20 72 dBn -20 72 dBn -20 72 dBn -20 72 dBn -20 72 dBn -20 72 dBn	Frequency           Auto Tune           Center Freq           1.215000000 GHz           Start Freq           30.000000 MHz           Stop Freq           2.400000000 GHz           CF Step           237.000000 MHz
11	Ω AC CORREC     ODUOUO GHZ     PN0: Fast     IFGain:Low	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	04:59:12 PM Sep 02, 2020 TRACE 1 2 3 4 5 6 TYPE 0 1 1 2 3 4 5 6 0 1 1 2 4 0 00 GHz -51.248 dBm -51.248 dBm -2072 db	Frequency           Auto Tune           Center Freq           1.215000000 GHz           Start Freq           30.000000 MHz           Stop Freq           2.400000000 GHz           CF Step           237.000000 MHz           Auto           Mar
11	Ω     AC     CORREC       000000     GHz       PNO: Fast       IFGain:Low         0         dBm         IFGain:Low	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	04:59:12 PM Sep 02, 2020 TRACE 1 2 3 4 5 6 TYPE 0 1 1 2 3 4 5 6 0 1 1 2 4 0 00 GHz -51.248 dBm -51.248 dBm -2072 db	Frequency Auto Tune Center Frec 1.215000000 GH2 Start Frec 30.000000 MH2 Stop Frec 2.400000000 GH2 CF Step 237.000000 MH2 Auto Mar
11	Ω     AC     CORREC       000000     GHz       PNO: Fast       IFGain:Low         0         dBm         IFGain:Low	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	04:59:12 PM Sep 02, 2020 TRACE 1 2 3 4 5 6 TYPE 0 1 1 2 3 4 5 6 0 1 1 2 4 0 00 GHz -51.248 dBm -51.248 dBm -2072 db	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz 2.400000000 GHz 2.40000000 GHz 2.37.000000 MHz Auto Man
11	Ω     AC     CORREC       000000     GHz       PNO: Fast       IFGain:Low         0         dBm         IFGain:Low	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	04:59:12 PM Sep 02, 2020 TRACE 1, 2, 3, 4, 5 TYPE 1, 20, 4, 5 DET PNNNNN 1, 1,240,00 GHz -51,248 dBm -20,72	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz 2.400000000 GHz 2.40000000 GHz 2.37.000000 MHz Auto Man
11	Ω     AC     CORREC       000000     GHz       PNO: Fast       IFGain:Low         0         dBm         IFGain:Low	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	04:59:12 PM Sep 02, 2020 TRACE 1, 2, 3, 4, 5 TYPE 1, 20, 4, 5 DET PNNNNN 1, 1,240,00 GHz -51,248 dBm -20,72	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz 2.400000000 GHz 2.40000000 GHz 2.37.000000 MHz Auto Man
11	Ω     AC     CORREC       000000     GHz       PNO: Fast       IFGain:Low         0         dBm         IFGain:Low	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	04:59:12 PM Sep 02, 2020 TRACE 1, 2, 3, 4, 5 TYPE 1, 20, 4, 5 DET PNNNNN 1, 1,240,00 GHz -51,248 dBm -20,72	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz 2.400000000 GHz 2.40000000 GHz 2.37.000000 MHz Auto Man
11	Ω     AC     CORREC       000000     GHz       PNO: Fast       IFGain:Low         0         dBm         IFGain:Low	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	04:59:12 PM Sep 02, 2020 TRACE 1, 2, 3, 4, 5 TYPE 1, 20, 4, 5 DET PNNNNN 1, 1,240,00 GHz -51,248 dBm -20,72	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz 2.400000000 GHz 2.40000000 GHz 2.37.000000 MHz Auto Man
11	Ω     AC     CORREC       000000     GHz       PNO: Fast       IFGain:Low         0         dBm         IFGain:Low	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	04:59:12 PM Sep 02, 2020 TRACE 1, 23 4 5 6 TYPE 1, 23 4 5 6 TYPE 1, 24 00 GHz -51.248 dBm -072 dbm Stop 2.400 GHz 8.0 ms (30000 pts) FUNCTION VALUE	Frequency           Auto Tune           Center Freq           1.215000000 GHz           Start Freq           30.000000 MHz           Stop Freq           2.400000000 GHz           CF Step           237.000000 MHz

Compliance Dedicated Fe Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated res Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written extincrization of AG presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day Safter the issues Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com. g/Inspection The test results ne test report. Bf



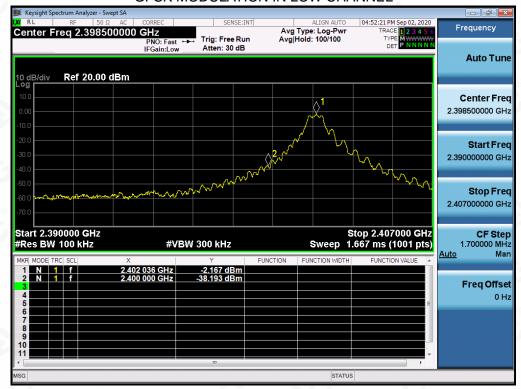


🎉 Keysight Spe															
IXI RL	RF	50					SEI	NSE:IN	Т	Ave	LIGN AUTO		PM Sep 02, 2		Frequency
Center F	req	3.750	0000	PN	O: Fast ain:Low		Trig: Free Atten: 30			Avg H	10/10	т		AMW INN	Auto Tune
10 dB/div Log	Ref	20.00	dBm	<u> </u>							 Mkr	1 24.17 -48.	'3 5 GI '32 dE		Auto Tune
10.0 0.00 -10.0															Center Freq 13.750000000 GHz
-20.0 -30.0 -40.0													-20.72	<u>dBm</u>	<b>Start Freq</b> 2.500000000 GHz
-50.0 -60.0									etter den						<b>Stop Freq</b> 25.000000000 GHz
Start 2.50 #Res BW	100			x	#V	BW 3	00 kHz		FUNC	TION	Sweep	2.152 s (	25.00 G 30000 p	Hz (ts)	<b>CF Step</b> 2.250000000 GHz <u>Auto</u> Man
1 N 1 2 3 3 4 5 5 6 7 8				24.173 5	GHz		48.732 df	3m							<b>Freq Offset</b> 0 Hz
9 10 11 • MSG							III				STATU	6		-	

Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.

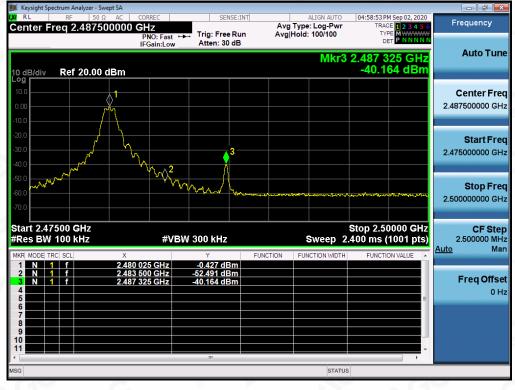
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#### TEST RESULT FOR BAND EDGE GFSK MODULATION IN LOW CHANNEL

#### GFSK MODULATION IN HIGH CHANNEL



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## **10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY**

#### **10.1. 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 SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

#### **10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)**

Refer to Section 7.2.

#### **10.3. MEASUREMENT EQUIPMENT USED**

Refer to Section 6.

#### **10.4. LIMITS AND MEASUREMENT RESULT**

Channel No.	PSD (dBm/3kHz)	Result		
Low Channel	-16.832	8	Pass	
Middle Channel	-15.624	8	Pass	
High Channel	-13.505	8	Pass	

#### TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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#### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



#### TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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#### **11. RADIATED EMISSION**

#### **11.1. MEASUREMENT PROCEDURE**

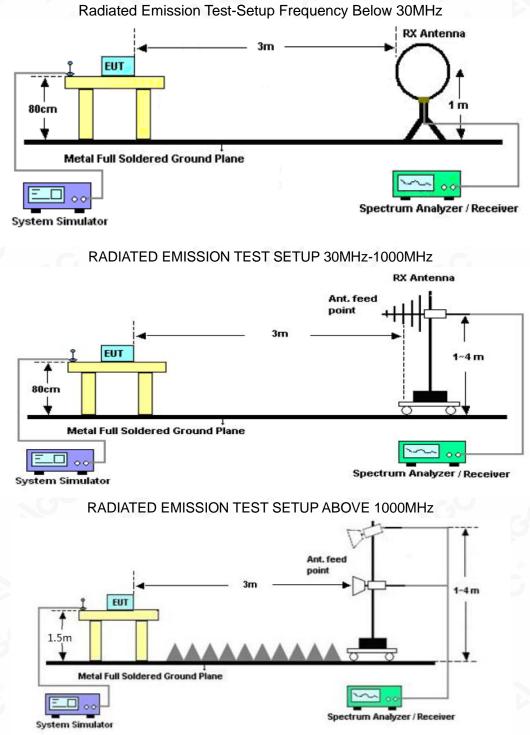
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated 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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#### 11.2. TEST SETUP



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#### **11.3. 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.

#### 11.4. 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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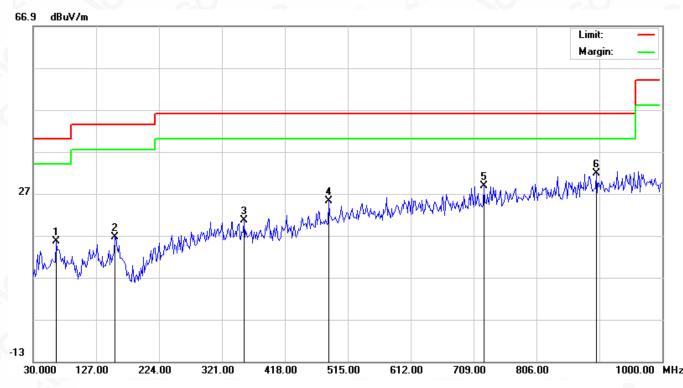


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RADIATED	EMISSION	<b>BELOW 1GHZ</b>
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EUT	Bluetooth Keyboard	Model Name	HD126
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		65.5667	-0.87	16.56	15.69	40.00	-24.31	peak
2		156.1000	-1.59	18.22	16.63	43.50	-26.87	peak
3		354.9500	-0.55	21.20	20.65	46.00	-25.35	peak
4		485.9000	0.69	24.42	25.11	46.00	-20.89	peak
5		725.1667	0.04	28.72	28.76	46.00	-17.24	peak
6	*	898.1500	0.06	31.68	31.74	46.00	-14.26	peak

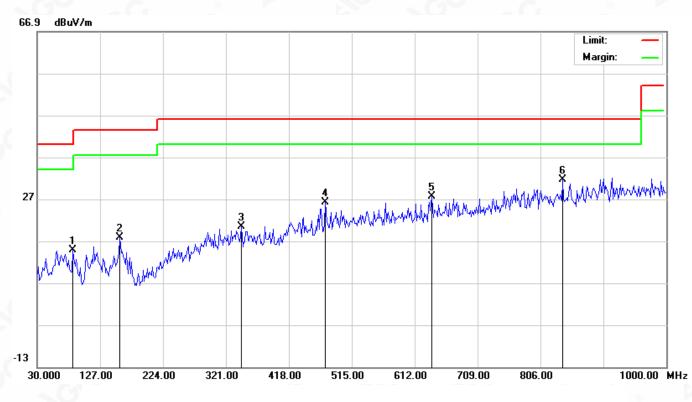
#### **RESULT: PASS**

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EUT	Bluetooth Keyboard	Model Name	HD126
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		84.9666	-0.24	14.96	14.72	40.00	-25.28	peak
2		157.7167	-0.84	18.62	17.78	43.50	-25.72	peak
3		345.2500	-0.92	21.25	20.33	46.00	-25.67	peak
4		474.5833	2.27	23.97	26.24	46.00	-19.76	peak
5		637.8667	0.23	27.40	27.63	46.00	-18.37	peak
6	*	839.9500	0.59	30.93	31.52	46.00	-14.48	peak

#### RESULT: PASS Note:

- 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- 2. All test modes had been 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	HD126
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	45.23	0.08	45.31	74	-28.69	peak	
4804.000	36.47	0.08	36.55	54	-17.45	AVG	
7206.000	39.55	2.21	41.76	74	-32.24	peak	
7206.000	32.92	2.21	35.13	54 💿	-18.87	AVG	
		©.		S G G	8	®	
emark:		6	©			- C	
actor = Anter	nna Factor + Cable	Loss – Pre-	-amplifier.			0	

EUT	Bluetooth Keyboard	Model Name	HD126
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		
(MHz)	(dBµV)	(dB)	⊂ (dBμV/m)	(dBµV/m)	(dB)	- Value Type	
4804.000	44.86	0.08	44.94	74	-29.06	peak	
4804.000	35.71	0.08	35.79	54	-18.21	AVG	
7206.000	39.44	2.21	41.65	74	-32.35	peak	
7206.000	31.85	2.21	34.06	54	-19.94	AVG	
	G		0		9	G	
emark:	6	NO					

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

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EUT	Bluetooth Keyboard	Model Name	HD126
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	44.25	0.14	44.39	74	-29.61	peak	
4880.000	35.64	0.14	35.78	54	-18.22	AVG	
7320.000	38.72	2.36	41.08	74	-32.92	peak	
7320.000	30.96	2.36	33.32	54	-20.68	AVG	
8	6			0	0		
emark:	- 6	8		-0-	- 6	0	
actor = Anter	nna Factor + Cable	Loss – Pre-	amplifier.			- 6	

EUT	Bluetooth Keyboard	Model Name	HD126
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
46.18	0.14	46.32	74	-27.68	peak
39.53	0.14	39.67	54	-14.33	AVG
41.31	2.36	43.67	74	-30.33	peak
33.45	2.36	35.81	54	-18.19	AVG
	- 60-				
	(dBµV) 46.18 39.53 41.31	(dBµV)         (dB)           46.18         0.14           39.53         0.14           41.31         2.36	(dBµV)         (dB)         (dBµV/m)           46.18         0.14         46.32           39.53         0.14         39.67           41.31         2.36         43.67	(dBµV)         (dB)         (dBµV/m)         (dBµV/m)           46.18         0.14         46.32         74           39.53         0.14         39.67         54           41.31         2.36         43.67         74	(dBµV)         (dB)         (dBµV/m)         (dBµV/m)         (dBµ           46.18         0.14         46.32         74         -27.68           39.53         0.14         39.67         54         -14.33           41.31         2.36         43.67         74         -30.33

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

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EUT	Bluetooth Keyboard	Model Name	HD126
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	44.65	0.22	44.87	74	-29.13	peak
4960.000	36.47	0.22	36.69	54	-17.31	AVG
7440.000	38.54	2.64	41.18	74	-32.82	peak
7440.000	30.28	2.64	32.92	54	-21.08	AVG
8				3	0	
emark:		8		~ 6	- 61	8
ctor = Anter	nna Factor + Cable	Loss – Pre-	amplifier.			- 6

EUT	Bluetooth Keyboard	oth Keyboard Model Name	
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	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	43.95	0.22	44.17	74	-29.83	peak
4960.000	33.71	0.22	33.93	54	-20.07	AVG
7440.000	37.62	2.64	40.26	74	-33.74	peak
7440.000	39.11	2.64	41.75	54	-12.25	AVG
mark:		- GC			<u> </u>	0

Factor = Antenna Factor + Cable Loss – Pre-amplifi RESULT: PASS

#### RESULI: P

#### 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.

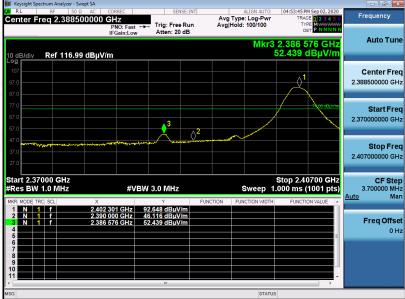
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the aber of the structure of the report is not permitted without the written authorization of AGE. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after 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.



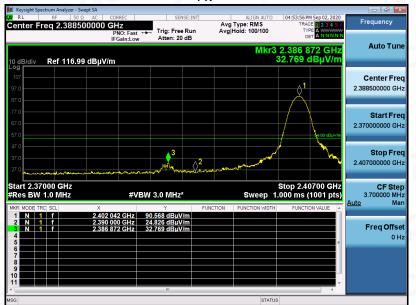
EUT	Bluetooth Keyboard	Model Name	HD126
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

#### TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

PK



AV



**RESULT: PASS** 

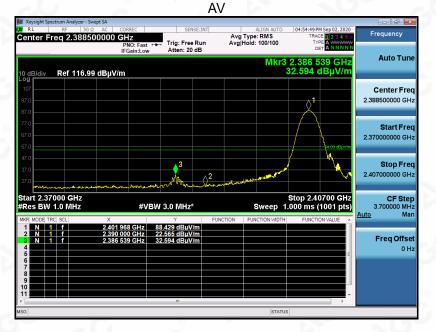
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written aphorization of AGE. 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 15days after 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.



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EUT	Bluetooth Keyboard	Model Name	HD126
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical





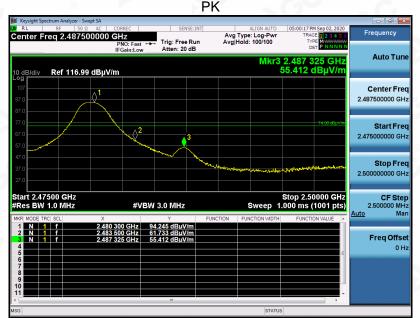
**RESULT: PASS** 

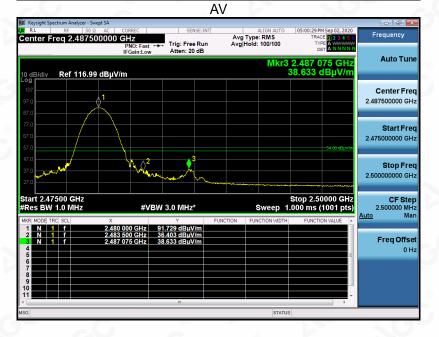
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EUT	Bluetooth Keyboard	Model Name	HD126
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal





**RESULT: PASS** 

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EUT	Bluetooth Keyboard	Model Name	HD126
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical
	P	K	





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

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# APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 1GHZ



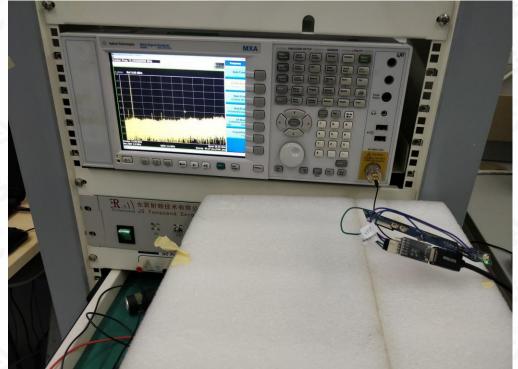
RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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#### CONDUCTED EMISSION TEST SETUP

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#### APPENDIX B: PHOTOGRAPHS OF EUT TOP VIEW OF EUT

BOTTOM VIEW OF EUT



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#### FRONT VIEW OF EUT



BACK VIEW OF EUT



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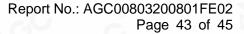
#### LEFT VIEW OF EUT



**RIGHT VIEW OF EUT** 



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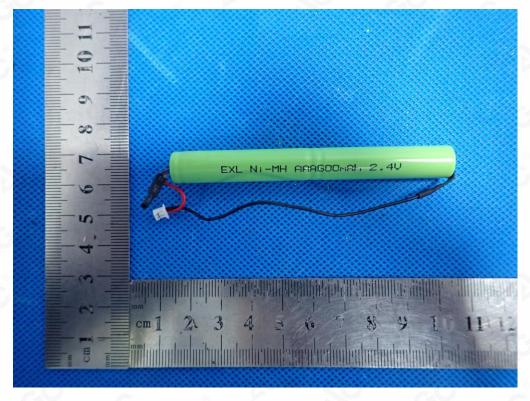


OPEN VIEW OF EUT

AGC



**VIEW OF BATTERY** 

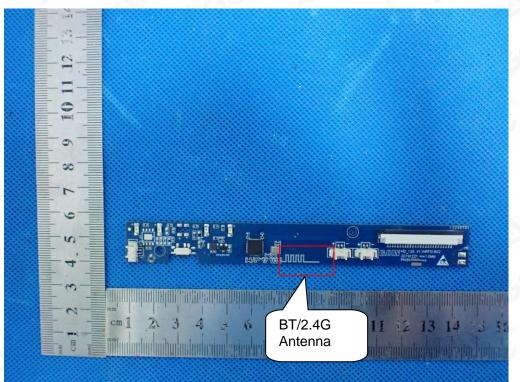


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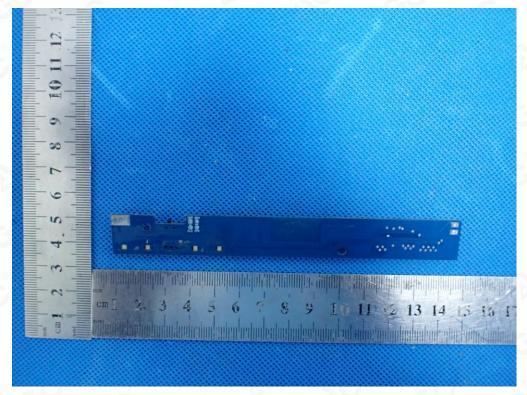


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**INTERNAL VIEW OF EUT-2** 

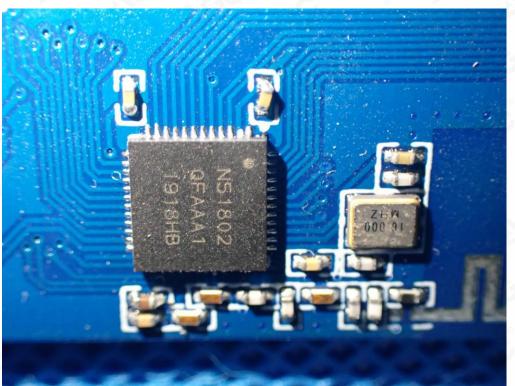


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**INTERNAL VIEW OF EUT-3** 



#### ----END OF REPORT----

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