

FCC Test Report

Report No.: AGC00593210401FE02

FCC ID	8	2AUIUWE1BLK
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Wyze Buds
BRAND NAME	:	WYZE
MODEL NAME	÷	WE1BLK
APPLICANT	:	Wyze Labs, Inc.
DATE OF ISSUE	© :	May 12, 2021
STANDARD(S)	:	FCC Part 15.247
REPORT VERSION	:	V1.0



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Report No.: AGC00593210401FE02 Page 2 of 40

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		May 12, 2021	Valid	Initial Release

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1. VERIFICATION OF COMPLIANCE

Applicant	Wyze Labs, Inc.	
Address	5808 Lake Washington Blvd NE Ste 300, Kirkland Washington 98033, United States	
Manufacturer	Andon Health Co., Ltd	
Address	NO.3, Jinping Road, Yaan Street, Nankai District, Tianjin, China	
Product Designation	Wyze Buds	
Brand Name	WYZE	
Test Model	WE1BLK	
Date of test	Apr. 26, 2021 to May 12, 2021	
Deviation	No any deviation from the test method	
Condition of Test Sample	Normal	
Test Result	Pass	
Report Template	AGCRT-US-BLE/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

well chang

Cool Cheng Project Engineer

May 12, 2021

Reviewed By

Max Zhan

Max Zhang Reviewer

May 12, 2021

Approved By

oWØ

Forrest Lei Authorized Officer

May 12, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a "Wyze Buds". 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	3.461dBm (Max)	
Bluetooth Version	V5.0	
Modulation	BR	
Number of channels	40 Channels	
Antenna Designation	FPC Antenna (Comply with requirements of the FCC part 15.203)	
Antenna Gain	0.76dBi	
Hardware Version	v1.3	
Software Version	V2.94	
Power Supply	DC 3.7V by battery or DC 5V by adapter	

Note: The EUT includes left and right channel earphones, the schematic diagram is the same, but the PCB Layout is different. The RF output power of each earphone has been tested and recorded in the report. For other test items, due to the higher power, the right headset has been tested and recorded in this report, which is the worst case.

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: 2AUIUWE1BLK 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 = ±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.

	Software Sett	ing
Non Signaling Test Tool		– 🗆 X
<u>F</u> ile <u>D</u> evice		
Devices Port ID Address Nar Addres State CO 0xEEEEEE DUT Private IDLE	Role Authent Encrypt Versic Fo	SIGTEST VCO TEST BLE TX TEST SETTING () Transmitter Test Transmit Fr 0 2402MHz Payload Pat 0:prbs9 • Payload Siz 37
<		> Send
Traces Local Device Traces	SUCCESS))-	× Reciever Test Receive Frequency 0 2402MHz Send End Test
✓ Filter Sco Show raw data	Clear	

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:

EUT

Conducted Emission Configure:

EUT	AE

5.2. EQUIPMENT USED IN TESTED SYSTEM

ltem	Equipment	Model No.	ID or Specification	Remark
1	Wyze Buds	WE1BLK	2AUIUWE1BLK	EUT
2	Control Box	USB-TTL	N/A	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 EUT is powered by battery. The EUT can not use the BT function with 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 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 MYS		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. 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	May 17, 2019	May 16, 2021
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

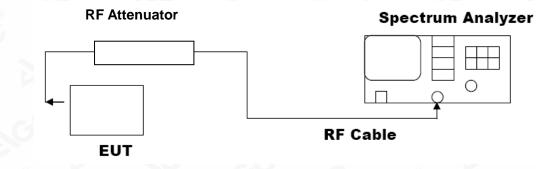
7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. 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

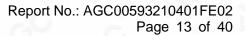
The right ear:

	PEAK OUTPUT POWER MEASUREMENT RESULT									
	FOR GFSK MOUDULATION									
Frequency (GHz)										
2.402	2.281	30	Pass							
2.440	3.461	30	Pass							
2.480	1.690	30	Pass							

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			01	-			2.)	
Keysight Spectrum Analyzer - RL RF 5	Swept SA) Ω AC CORR		CENCE INT			02.02.14.44	Mau 00, 2021	
enter Freq 2.402	000000 GHz):Fast ↔ Trig	SENSE:INT Free Run en: 30 dB	Avg Type: Avg Hold:		TRACI	May 08, 2021 1 2 3 4 5 6 MWWWWW P N N N N N	Frequency
0 dB/div Ref 20.0	0 dBm				Mkr1	2.402 1 2.28	90 GHz 31 dBm	Auto Ti
0.0			1					Center F 2.402000000
0.0								Start F 2.399500000
0.0								Stop F 2.404500000
0.0								CF S 500.000 <u>Auto</u>
0.0								Freq Off (
enter 2.402000 GF						Spap 5		
Res BW 1.5 MHz	2	#VBW 5.0 M	ЛНz		weep 1	span 5. /000 ms (000 MHz 1001 pts)	

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CH39

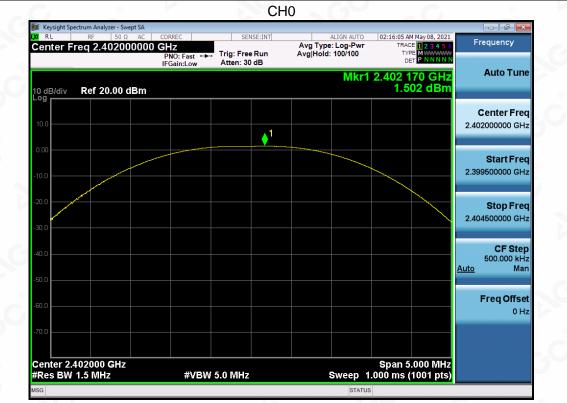
📕 Keysight Spectrum Analyzer - Swept SA					
RL RF 50 Ω AC Center Freq 2.4800000		SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	02:09:49 AM May 08, 2021 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast ↔ IFGain:Low	 Trig: Free Run Atten: 30 dB 	Avg Hold: 100/100	TYPE MWWWW DET PNNNN	
10 dB/div Ref 20.00 dBm			Mkr1	2.479 810 GHz 1.690 dBm	Auto Tun
10.0					Center Fre 2.480000000 GH
0.00		_			Start Fre
10.0					2.477500000 GH
30.0					Stop Fre 2.482500000 GF
40.0					CF Ste 500.000 kl <u>Auto</u> Mi
60.0					Freq Offs 0 F
70.0					
Center 2.480000 GHz #Res BW 1.5 MHz	#VBV	V 5.0 MHz	Sweep 1	Span 5.000 MHz .000 ms (1001 pts)	
ISG			STATU	6	

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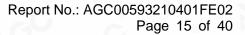


The left ear:

	PEAK OUTPUT POWER MEASUREMENT RESULT								
	FOR GFSK MOUDULATION								
Frequency (GHz)									
2.402	1.502	30	Pass						
2.440	2.705	30	Pass						
2.480	0.999	30	Pass						



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📕 Keysight Spectrum Analyzer - Swept SA				
RL RF 50 Ω AC Center Freq 2.480000000	CORREC SENSE:IN	Avg Type: Log-Pwr	02:16:52 AM May 08, 2021 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast +++ IFGain:Low Atten: 30 dB	Avg Hold: 100/100	2.479 815 GHz 0.999 dBm	Auto Tune
10 dB/div Ref 20.00 dBm				Center Fre 2.480000000 GH
0.00				Start Fre 2.477500000 GH
30.0				Stop Fre 2.482500000 G⊦
40.0				CF Ste 500.000 kH Auto Ma
60.0				Freq Offse 0 ⊢
Center 2.480000 GHz #Res BW 1.5 MHz	#VBW 5.0 MHz	Sweep	Span 5.000 MHz .000 ms (1001 pts)	
ISG		STATU	5	

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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									
Applicable Limite	Applicable Limits								
Applicable Limits	Test Data (kHz) Criteria								
S S	Low Channel	674.4	PASS						
>500KHZ	Middle Channel	675.6	PASS						
	High Channel 682.7 PASS								

02:03:02 AM May 08, 2021 Radio Std: None Center Freq: 2.402000000 GHz Trig: Free Run Avg|Ho Frequency 2 402000000 GHz Center Avg|Hold: 100/100 #Atten: 30 dB Radio Device: BTS #IFGain:Low Ref 20.00 dBm Center Freq 2.402000000 GHz Span 3 MHz Center 2.402 GHz CF Step #Res BW 100 kHz #VBW 300 kHz Sweep 1 ms 300.000 k Auto Mar **Total Power** 8.67 dBm Occupied Bandwidth 1.0516 MHz Freq Offset 0 H; Transmit Freq Error 5.369 kHz **OBW Power** 99.00 % x dB Bandwidth 674.4 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						

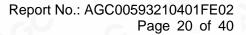
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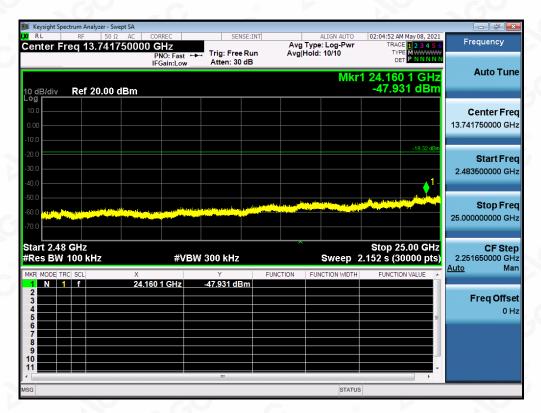


TEST RESULT FOR ENTIRE FREQUENCY RANGE GFSK MODULATION IN LOW CHANNEL

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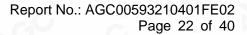
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 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com
 Web: http://cn.agc-cert.com/

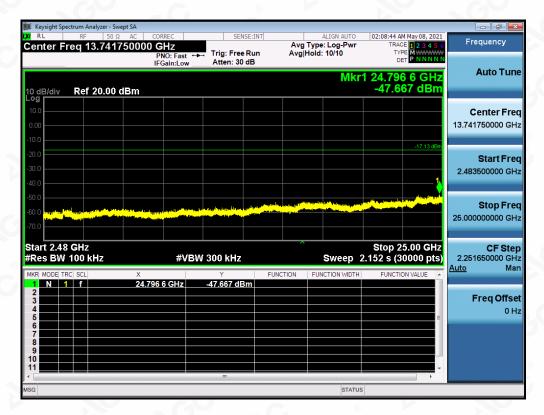


📕 Keysight Spectrum Analyzer -	C				
	- Swept SA 0 Ω AC CORREC	SENSE:INT	ALIGN AUTO	02:08:10 AM May 08, 2021	
Center Freq 2.440		Trin Frank	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N	Frequency
	il Guill.Low		Mkr1 2	.439 999 2 GHz	Auto Tun
10 dB/div Ref 20.0	0 dBm			2.874 dBm	
10.0		11_			Contor Fro
0.00					Center Fre 2.440000000 GH
-10.0					2.440000000 011
-20.0					
-30.0					Start Free 2.438500000 GH
-40.0					2.438500000 GH
-50.0					
-60.0					Stop Fre
-70.0					2.441500000 GH
Center 2.440000 GH #Res BW 100 kHz		N 300 kHz		Span 3.000 MHz 000 ms (30000 pts)	CF Stej 300.000 kH Auto Mar
MKR MODE TRC SCL	× 2.439 999 2 GHz	Y 2.874 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	
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ASG		m	STATUS	• • •	
			or Arbe		
	0 Ω AC CORREC	SENSE:IN1		02:08:20 AM May 08, 2021	
center Freq 1.215	000000 GHz	Trin Frank	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
Senter Freq 1.215		Trin Frank	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 1 2 3 4 5 6 TYPE MWWWW DET PNNNNN	Frequency
	OOOOOOO GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 123456 TYPE MWWWW DET P NNNN 1 1.894 23 GHz	Frequency
10 dB/div Ref 20.0	OOOOOOO GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 1 2 3 4 5 6 TYPE MWWWW DET PNNNNN	Frequency
10 dB/div Ref 20.0	OOOOOOO GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 123456 TYPE MWWWW DET P NNNN 1 1.894 23 GHz	Frequency Auto Tune
10 dB/div Ref 20.0	OOOOOOO GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 123456 TYPE MWWWW DET P NNNN 1 1.894 23 GHz	Frequency Auto Tune Center Free
10 dB/div Ref 20.0	OOOOOOO GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	1 1.894 23 GHz -46.879 dBm	Frequency Auto Tune Center Free
10 dB/div Ref 20.0	OOOOOOO GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 123456 TYPE MWWWW DET P NNNN 1 1.894 23 GHz	Frequency Auto Tune Center Free 1.215000000 GH
10 dB/div Ref 20.0	OOOOOOO GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	1 1.894 23 GHz -46.879 dBm	Frequency Auto Tune Center Free 1.21500000 GH Start Free
10 dB/div Ref 20.0 10 dB/div Ref 20.0 10 0 10 0 10 0 -10 0 -20 0	OOOOOOO GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	1 1.894 23 GHz -46.879 dBm	Frequency Auto Tune Center Free 1.21500000 GH Start Free
10 dB/div Ref 20.0 - 99 - 00 - 10.0 - 20.0 - 20.0	OOOOOOO GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	1 1.894 23 GHz -46.879 dBm	Frequency Auto Tune Center Free 1.215000000 GH Start Free 30.000000 MH
10 dB/div Ref 20.0 0 00 -10 0 -10 0 -20 0 -20 0 -40 0 -50 0 -50 0	OOOOOOO GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	1 1.894 23 GHz -46.879 dBm	Frequency Auto Tune Center Free 1.215000000 GH Start Free 30.000000 MH
10 dB/div Ref 20.0 10.0 10.0 10.0 10.0 -10.0 -20.0 -30.0 -40.0 -50.0	0000000 GHz PNO: Fast ← IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	1 1.894 23 GHz -46.879 dBm	Frequency Auto Tune Center Free 1.215000000 GH Start Free 30.000000 MH
10 dB/div Ref 20.0 10.0	0000000 GHz PNO: Fast ← IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 1. 2.3 4.5 6 TYPE MANNAWAY OFT MANNAWAY 1. 1.894 23 GHz -46.879 dBm -46.879 dBm -46.879 dBm -46.879 dBm -46.879 dBm -46.879 dBm	Frequency Auto Tune Center Free 1.215000000 GH Start Free 30.000000 MH Stop Free 2.400000000 GH
10 dB/div Ref 20.0 10.0	0 dBm	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10 MKr	1 1.894 23 GHz -46.879 dBm	Frequency Auto Tune Center Freq 1.21500000 GH Start Freq 30.00000 MH Stop Freq 2.40000000 GH CF Step 237.00000 MH
10 dB/div Ref 20.0 10.0	COOODOO GHZ PNO: Fast → IFGain:Low 0 dBm 0 dBm 0 dBm 4 data 1 data #VBN ×	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 10/10 MKr	TRACE 1. 2.2.4.5 G TYPE M.W.W.W. OET P.N.W.W.W. 1. 1.894 23 GHz -46.879 dBm -46.879 dBm -46.8790 dBm -46.8790 dBm -46.8790 dBm -46.8790 dBm -46.8790 d	Frequency Auto Tune Center Freq 1.21500000 GH: Start Freq 30.00000 MH: Stop Freq 2.40000000 GH: CF Step 237.00000 MH:
10 dB/div Ref 20.0 10.0	0 dBm	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	TRACE 1. 2.4.5 6 TYPE MANNANA OFT PARTIES AND A -46.879 dBm -46.879 dBm -11-13 dBm -17.13 dBm -11-14 -17.13 dBm -11-14 -14-14-14 -14	Frequency Auto Tune Center Freq 1.215000000 GH Start Freq 30.000000 MH Stop Freq 2.400000000 GH CF Step 237.000000 MH
10 dB/div Ref 20.0 100	COOODOO GHZ PNO: Fast → IFGain:Low 0 dBm 0 dBm 0 dBm 4 data 1 data #VBN ×	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	TRACE 1. 2.4.5 6 TYPE MANNANA OFT PARTIES AND A -46.879 dBm -46.879 dBm -11-13 dBm -17.13 dBm -11-14 -17.13 dBm -11-14 -14-14-14 -14	Frequency Auto Tune Center Free 1.21500000 GH Start Free 30.000000 MH Stop Free 2.40000000 GH CF Step 237.00000 MH Auto Mar
10 dB/div Ref 20.0 10.0	COOODOO GHZ PNO: Fast → IFGain:Low 0 dBm 0 dBm 0 dBm 4 data 1 data #VBN ×	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	TRACE 1. 2.4.5 6 TYPE MANNANA OFT PARTIES AND A -46.879 dBm -46.879 dBm -11-13 dBm -17.13 dBm -11-14 -17.13 dBm -11-14 -14-14-14 -14	Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH: Auto Mar Freq Offse
10 dB/div Ref 20.0 Log	COOODOO GHZ PNO: Fast → IFGain:Low 0 dBm 0 dBm 0 dBm 4 data 1 data #VBN ×	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	TRACE 1. 2.4.5 6 TYPE MANNANA DEP MANNANA 1.1.894 23 GHz -46.879 dBm -1.1.13 dbm 1.1.1.13 dbm 1.1.13	Frequency Auto Tune Center Free 1.21500000 GH Start Free 30.000000 MH Stop Free 2.40000000 GH CF Step 237.00000 MH Auto Mar
10 dB/div Ref 20.0 Log	COOODOO GHZ PNO: Fast → IFGain:Low 0 dBm 0 dBm 0 dBm 4 data 1 data #VBN ×	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	TRACE 1. 2.4.5 6 TYPE MANNANA DEP MANNANA 1.1.894 23 GHz -46.879 dBm -1.1.13 dbm 1.1.1.13 dbm 1.1.13	Frequency Auto Tune Center Free 1.21500000 GH Start Free 30.000000 MH Stop Free 2.40000000 GH CF Step 237.00000 MH Auto Mar
10 dB/div Ref 20.0 10.0	COOODOO GHZ PNO: Fast → IFGain:Low 0 dBm 0 dBm 0 dBm 4 data 1 data #VBN ×	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	TRACE 1. 2.4.5 6 TYPE MANNANA DEP MANNANA 1.1.894 23 GHz -46.879 dBm -1.1.13 dbm 1.1.1.13 dbm 1.1.13	Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH: Auto Mar Freq Offse
10 dB/div Ref 20.0 Log	COOODOO GHZ PNO: Fast → IFGain:Low 0 dBm 0 dBm 0 dBm 4 data 1 data #VBN ×	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	TRACE 1. 2.4.5 6 TYPE MANNANA DEP MANNANA 1.1.894 23 GHz -46.879 dBm -1.1.13 dbm 1.1.1.13 dbm 1.1.13	Start Frequency Auto Tune Center Freq 1.215000000 GH; Start Freq 30.000000 MH; Stop Freq 2.400000000 GH; CF Step 237.000000 MH;

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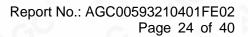
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 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



Keysight Spectrum Analyzer - 3		OFNOT INT		02-10-52 AM M00-2021	
enter Freq 2.480		SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	02:10:52 AM May 08, 2021 TRACE 1 2 3 4 5	Frequency
	PNO: Wide ↔	Trig: Free Run	Avg Hold: 10/10		
	IFGain:Low	Atten: 30 dB			
			Mkr1 2.	480 000 1 GHz	Auto Tune
dB/div Ref 20.00) dBm			1.043 dBm	
g					
).0		↓ \ 1			Center Fred
00					2.480000000 GHz
.0					Start Fran
					Start Fred 2.478500000 GH:
.0					2.478500000 GH2
and the second s					
					Stop Fred
					2.481500000 GH
nter 2.480000 GH		N 000 KU-	0	Span 3.000 MHz	CF Step
es BW 100 kHz	#VBV	№ 300 kHz	Sweep 2.t	00 ms (30000 pts)	300.000 kHz Auto Man
MODE TRC SCL	Х		UNCTION FUNCTION WIDTH	FUNCTION VALUE	Adto
N 1 f	2.480 000 1 GHz	1.043 dBm			
					Freq Offset
					0 Hz
		m	STATUS		
		m	STATUS	- F	
L RF 50	Ω AC CORREC	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	02:11:01 AM May 08, 2021	Frequency
L RF 50	Ω AC CORREC 0000000 GHz PNO: Fast ↔	SENSE:INT	ALIGN AUTO	02:11:01 AM May 08, 2021	Frequency
L RF 50	Ω AC CORREC	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:11:01 AM May 08, 2021 TRACE 1 2 3 4 5 TYPE MWWWW DET PNNNN	Frequency
RF 50 ter Freq 1.215	Ω AC CORREC 0000000 GHz PN0: Fast ↔ IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:11:01 AM May 08, 2021 TRACE 1 2 3 4 5 TYPE M MAY 08 DET P NNNN 1 1.903 86 GHz	Frequency
RF 50 ter Freq 1.215	Ω AC CORREC 0000000 GHz PN0: Fast ↔ IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:11:01 AM May 08, 2021 TRACE 1 2 3 4 5 TYPE MWWWW DET PNNNN	Frequency
RF 50	Ω AC CORREC 0000000 GHz PN0: Fast ↔ IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:11:01 AM May 08, 2021 TRACE 1 2 3 4 5 TYPE M MAY 08 DET P NNNN 1 1.903 86 GHz	Frequency Auto Tune
RF 50	Ω AC CORREC 0000000 GHz PN0: Fast ↔ IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:11:01 AM May 08, 2021 TRACE 1 2 3 4 5 TYPE M MAY 08 DET P NNNN 1 1.903 86 GHz	Frequency Auto Tune Center Freq
RF 50	Ω AC CORREC 0000000 GHz PN0: Fast ↔ IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:11:01 AM May 08, 2021 TRACE 1 2 3 4 5 TYPE M MAY 08, 2017 DET P NNNN DET P NNNN 1 1.903 86 GHz	Frequency Auto Tune
er Freq 1.215	Ω AC CORREC 0000000 GHz PN0: Fast ↔ IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:11:01 AM May 08, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN 1 1.903 86 GHz -48.881 dBm	Frequency Auto Tune Center Freq
RF 50 Ser Freq 1.215	Ω AC CORREC 0000000 GHz PN0: Fast ↔ IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:11:01 AM May 08, 2021 TRACE 1 2 3 4 5 TYPE M MAY 08, 2017 DET P NNNN DET P NNNN 1 1.903 86 GHz	Frequency Auto Tune Center Freq
er Freq 1.215	Ω AC CORREC 0000000 GHz PN0: Fast ↔ IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:11:01 AM May 08, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN 1 1.903 86 GHz -48.881 dBm	Frequency Auto Tune Center Freq 1.215000000 GHz
er Freq 1.215	Ω AC CORREC 0000000 GHz PN0: Fast ↔ IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:11:01 AM May 08, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN 1 1.903 86 GHz -48.881 dBm	Frequency Auto Tune Center Freq 1.21500000 GHz Start Freq
RF 50 ter Freq 1.215	Ω AC CORREC 0000000 GHz PN0: Fast ↔ IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:11:01 AM May 08, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN 1 1.903 86 GHz -48.881 dBm	Frequency Auto Tune Center Freq 1.21500000 GHz Start Freq
RF 50 ter Freq 1.215	Ω AC CORREC 000000 GHZ PNO: Fast → IFGain:Low	Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:11:01 AM May 08, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN 1 1.903 86 GHz -48.881 dBm	Frequency Auto Tune Center Freq 1.21500000 GHz Start Freq
RF 50 ter Freq 1.215	Ω AC CORREC 000000 GHZ PNO: Fast → IFGain:Low 0 dBm	Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:11:01 AM May 08, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN 1 1.903 86 GHz -48.881 dBm	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz
B/div Ref 20.00	Ω AC CORREC 000000 GHZ PNO: Fast → IFGain:Low 0 dBm	Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:11:01 AM May 08, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN 1 1.903 86 GHz -48.881 dBm	Frequency Auto Tune Center Freq 1.21500000 GHz Start Freq 30.000000 MHz Stop Freq
B/div Ref 20.00	Ω AC CORREC 000000 GHZ PNO: Fast → IFGain:Low 0 dBm	Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:11:01 AM May 08, 2021 TRACE 1 2 3 4 5 TYPE MYNNN DET PNNNN 1 1.903 86 GHz -48.881 dBm -18.90 dBm -18.90 dBm -18.90 dBm -18.90 dBm	Frequency Auto Tune Center Freq 1.215000000 GHz 30.000000 MHz Stop Freq 2.400000000 GHz
B/div Ref 20.00	Ω AC CORREC 000000 GHz PN0: Fast → IFGain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	02:11:01 AM May 08, 2021 TRACE 1 2 3 4 5 TYPE M MANNE DET P NNNN 1 1.903 86 GHz -48.881 dBm -19.96 dbm -19.96 dbm 1	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz
Bidiv Ref 20.00	Ω AC CORREC D00000 GHz PN0: Fast + IFGain:Low IFGain:Low 0 BM 0 BM 0 IFGain:Low 0 IFGain:Low <t< td=""><td>SENSE:INT</td><td>ALIGN AUTO Avg Type: Log-Pwr Avg]Hold: 10/10 Mkr</td><td>02:11:01 AM May 08, 2021 TRACE 1 2 3 4 5 TYPE MYNNW DET P NNNN 1 1.903 86 GHz -48.881 dBm 1</td><td>Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz</td></t<>	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg]Hold: 10/10 Mkr	02:11:01 AM May 08, 2021 TRACE 1 2 3 4 5 TYPE MYNNW DET P NNNN 1 1.903 86 GHz -48.881 dBm 1	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz
B/div Ref 20.00	Ω AC CORREC 000000 GHz PN0: Fast → IFGain:Low 0 dBm If an expression of the ex	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr	02:11:01 AM May 08, 2021 TRACE 1 2 3 4 5 TYPE M MANNE DET P NNNN 1 1.903 86 GHz -48.881 dBm -19.96 dbm -19.96 dbm 1	Frequency Auto Tune Center Freq 1.21500000 GHz Start Freq 30.000000 MHz Stop Freq 2.40000000 GHz CF Step 237.000000 MHz
B/div Ref 20.00	Ω AC CORREC D00000 GHz PN0: Fast + IFGain:Low IFGain:Low 0 BM 0 BM 0 IFGain:Low 0 IFGain:Low <t< td=""><td>SENSE:INT</td><td>ALIGN AUTO Avg Type: Log-Pwr Avg]Hold: 10/10 Mkr</td><td>02:11:01 AM May 08, 2021 TRACE 1 2 3 4 5 TYPE MYNNW DET P NNNN 1 1.903 86 GHz -48.881 dBm 1</td><td>Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz Auto</td></t<>	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg]Hold: 10/10 Mkr	02:11:01 AM May 08, 2021 TRACE 1 2 3 4 5 TYPE MYNNW DET P NNNN 1 1.903 86 GHz -48.881 dBm 1	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz Auto
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IB/div Ref 20.00	Ω AC CORREC 000000 GHz PN0: Fast → IFGain:Low 0 dBm If an expression of the ex	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg]Hold: 10/10 Mkr	02:11:01 AM May 08, 2021 TRACE 1 2 3 4 5 TYPE MYNNW DET P NNNN 1 1.903 86 GHz -48.881 dBm 1	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.40000000 GHz CF Step 237.00000 MHz Auto Mar Freq Offset 0 Hz
AL RF 50 nter Freq 1.215 AB/div Ref 20.00 AB/div Ref 20.00 AB/	Ω AC CORREC 000000 GHz PN0: Fast → IFGain:Low 0 dBm If an expression of the ex	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg]Hold: 10/10 Mkr	02:11:01 AM May 08, 2021 TRACE 1 2 3 4 5 TYPE M 2000 TYPE M 2000 TYPE M 2000 TYPE M 2000 THE STOP 2400 GHz 8.0 ms (30000 Hz) FUNCTION VALUE	Frequency Auto Tune Center Frec 1.215000000 GHz Start Frec 30.000000 MHz Stop Frec 2.40000000 GHz CF Step 237.00000 MHz Auto Mar Freq Offset 0 Hz
AL RF 50 nter Freq 1.215 AB/div Ref 20.00 AB/div Ref 20.00 AB/	Ω AC CORREC 000000 GHz PN0: Fast → IFGain:Low 0 dBm If an expression of the ex	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg]Hold: 10/10 Mkr	02:11:01 AM May 08, 2021 TRACE 1 2 3 4 5 TYPE M 2000 TYPE M 2000 TYPE M 2000 TYPE M 2000 THE STOP 2400 GHz 8.0 ms (30000 Hz) FUNCTION VALUE	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.40000000 GHz CF Step 237.00000 MHz Auto Mar Freq Offset 0 Hz
AL RF 50 nter Freq 1.215 AB/div Ref 20.00 AB/div Ref 20.00 AB/	Ω AC CORREC 000000 GHz PN0: Fast → IFGain:Low 0 dBm If an expression of the ex	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg]Hold: 10/10 Mkr	02:11:01 AM May 08, 2021 TRACE 1 2 3 4 5 TYPE M 2000 T -48.881 dBm	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.40000000 GHz CF Step 237.000000 MHz Auto Mar Freq Offset 0 Hz
IB/div Ref 20.00	Ω AC CORREC 000000 GHz PN0: Fast → IFGain:Low 0 dBm If an expression of the ex	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg]Hold: 10/10 Mkr	02:11:01 AM May 08, 2021 TRACE 1 2 3 4 5 TYPE M 2000 T -48.881 dBm	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.40000000 GHz CF Step 237.000000 MHz Auto Mar Freq Offset 0 Hz
B/div Ref 20.00	Ω AC CORREC 000000 GHz PN0: Fast → IFGain:Low 0 dBm If an expression of the ex	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg]Hold: 10/10 Mkr	02:11:01 AM May 08, 2021 TRACE 1 2 3 4 5 TYPE M 2000 T -48.881 dBm	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.40000000 GHz CF Step 237.000000 MHz Auto Mar Freq Offset 0 Hz
enter Freq 1.2150	Ω AC CORREC 000000 GHz PN0: Fast → IFGain:Low 0 dBm If an expression of the ex	SENSE:INT Trig: Free Run Atten: 30 dB M: 300 KHz Y F -48.331 dBm 1	ALIGN AUTO Avg Type: Log-Pwr Avg]Hold: 10/10 Mkr	02:11:01 AM May 08, 2021 TRACE 1 2 3 4 5 TYPE 2 3 4 5 TYPE 2 4 TYPE 2 4 TYPE 2 4 T 4 . 10 90 86 GHz . 10 90 dBm	Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.40000000 GHz CF Step 237.000000 MHz Auto Mar Freq Offset 0 Hz

Sompliance Dedicated Fe Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Sbedicated 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 exchanges and the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day Safet the issues further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com. /Inspection The test results ne test report. Bf





🊺 Keys																				
Cent		R		50 Ω					SE	NSE:IN	IT	Ava		LIGN AUTO		6 AM May 08, RACE 1 2 3			Frequency	
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							Sumeo							Mkr	1 24 2	91 2 G	Hz		Auto Tune	e
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Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.

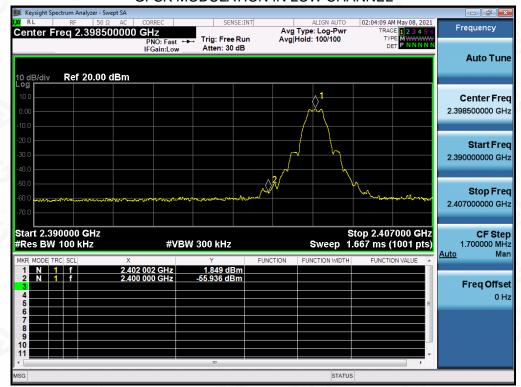
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 Attestation of Global Compliance(Shenzhen)Co., Ltd

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

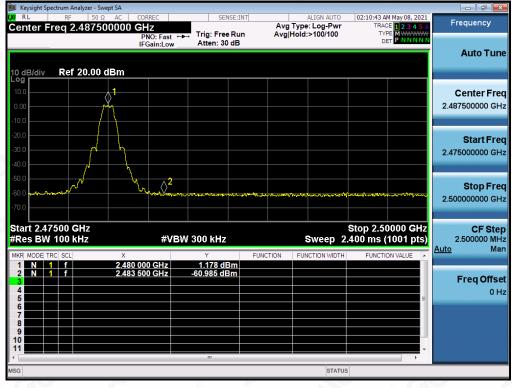
 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com





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 8.4 was used in this testing.

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

Refer to Section 7.2.

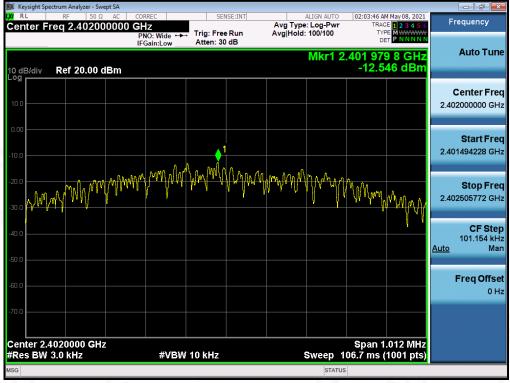
10.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

10.4. LIMITS AND MEASUREMENT RESULT

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-12.546	8	Pass
Middle Channel	-11.279	8	Pass
High Channel	-13.155	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

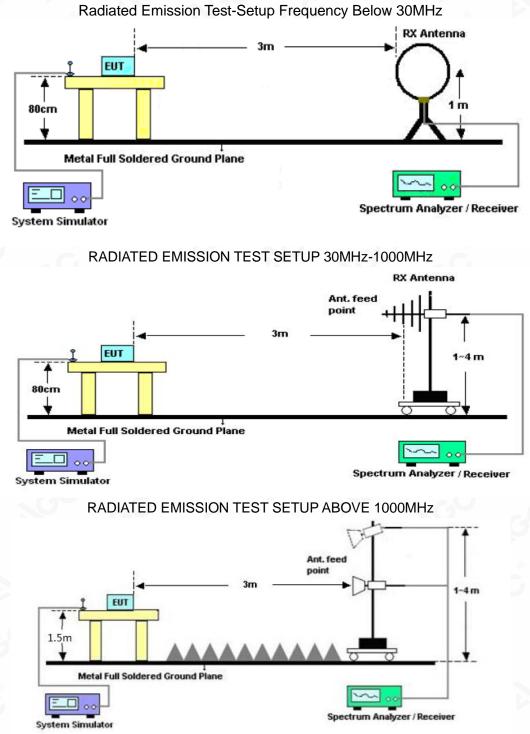
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated 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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EUT			Wyze	Buds		Мо	del Name	WE	1BLK	
Temperat	ure		25° C	C	8	Re	Relative Humidity		55.4%	
Pressure			960hF	Pa		Tes	st Voltage	Nor	mal Voltage	e C
Test Mode	e		Mode	2		An	tenna	Hor	izontal	
ÇÇÇ	72.0 dl	BuV/m						Limit Marg		SC.
	32			and have been for the optimate of the second s	nort <mark>a</mark> MynalmandhMridi	way og hap og hand af de	angh mi fam Mahm	hydrige hydrogen a fer a		
	B 30.000	127.00	224.00	321.00	418.00 515.0)0 612.00	709.00	806.00	1000.00 MH;	2 🛞
	No.	Mk.	Freq.	Reading Level	Correct Factor			nit Over		
			MHz	dBuV	dB	dBuV	/m dBu	V/m dB	Detector	
	1	6′	1.0400	4.94	17.79	22.7	3 40.0	00 -17.27	peak	
	2	138	3.6400	5.54	21.01	26.5	5 43.5	50 -16.95	peak	
	3	412	2.1800	5.50	24.98	30.4	8 46.0	00 -15.52	peak	
	4	693	3.4800	6.04	28.07	34.1	1 46.0	00 -11.89	peak	
	5	87	7.7800	6.20	31.41	37.6	61 46.0	00 -8.39	peak	
	6	* 915	5.6100	5.97	31.83	37.8	46.0	00 -8.20	peak	

RADIATED EMISSION BELOW 1GHZ

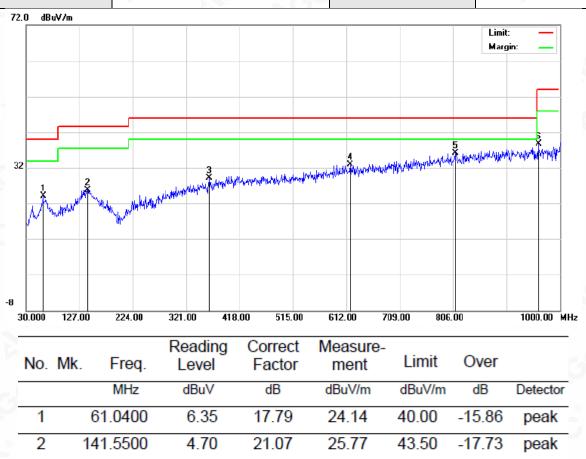
RESULT: PASS

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EUT	Wyze Buds	Model Name	WE1BLK
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical



RESULT: PASS Note:

3

4

5

6

362.7100

618.7900

809.8800

961.2000

1. Factor=Antenna Factor + Cable loss, Over= Measurement -Limit.

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

5.52

5.64

5.59

6.41

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23.67

27.18

30.54

32.23

29.19

32.82

36.13

38.64

46.00

46.00

46.00

54.00

-16.81

-13.18

-9.87

-15.36

peak

peak

peak

peak



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RADIATED EMISSION ABOVE 1GHZ

EUT	Wyze Buds	Model Name	WE1BLK
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	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	43.49	0.08	43.57	74	-30.43	peak
4804.000	35.32	0.08	35.4	54	-18.6	AVG
7206.000	38.56	2.21	40.77	74	-33.23	peak
7206.000	31.81	2.21	34.02	54	-19.98	AVG
<u> </u>	8			- 6	8	
2		8				8
emark:		1	0			- 0
actor = Anter	nna Factor + Cable	Loss - Pre-	amplifier.			

EUT	Wyze Buds	Model Name	WE1BLK
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

(dBµV/m) 74 54 74	(dB) -29.46 -19.31 -33.47	Value Type peak AVG
54	-19.31	AVG
74	22.47	in a shi
	-33.47	peak
54	-21.28	AVG
	<u>U</u>	
(A)		
	54	54 -21.28

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

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EUT	Wyze Buds	Model Name	WE1BLK
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
44.78	0.14	44.92	74	[©] -29.08	peak
35.25	0.14	35.39	54	-18.61	AVG
39.16	2.36	41.52	74	-32.48	peak
31.39	2.36	33.75	54	-20.25	AVG
			8		
8				8	
- 6	0			- 6	0
nna Factor + Cable	e Loss – Pre-	amplifier.			- G
	(dBµV) 44.78 35.25 39.16 31.39	(dBµV) (dB) 44.78 0.14 35.25 0.14 39.16 2.36 31.39 2.36	(dBµV) (dB) (dBµV/m) 44.78 0.14 44.92 35.25 0.14 35.39 39.16 2.36 41.52	(dBµV) (dB) (dBµV/m) (dBµV/m) 44.78 0.14 44.92 74 35.25 0.14 35.39 54 39.16 2.36 41.52 74 31.39 2.36 33.75 54	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 44.78 0.14 44.92 74 -29.08 35.25 0.14 35.39 54 -18.61 39.16 2.36 41.52 74 -32.48 31.39 2.36 33.75 54 -20.25

EUT	Wyze Buds	Model Name	WE1BLK
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	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.000	46.94	0.14	47.08	74	-26.92	peak
4880.000	38.68	0.14	38.82	54	-15.18	AVG
7320.000	40.53	2.36	42.89	74	-31.11	peak
7320.000	32.61	2.36	34.97	54	-19.03	AVG
		- Ci				

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

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EUT	Wyze Buds	Model Name	WE1BLK
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits	Margin	Value Type
	(dB)	(dBu)//m)			
			(dBµV/m)	(dB)	value Type
44.55	0.22	44.77	74	[©] -29.23	peak
35.42	0.22	35.64	54	-18.36	AVG
38.36	2.64	41	74	-33	peak
29.21	2.64	31.85	54	-22.15	AVG
			. C		
0			C.		
G	3		~ 67	- 6	8
a Factor + Cable	Loss - Pre-	amplifier.			- 6
	38.36 29.21	38.36 2.64 29.21 2.64	38.36 2.64 41	38.36 2.64 41 74 29.21 2.64 31.85 54	38.36 2.64 41 74 -33 29.21 2.64 31.85 54 -22.15

EUT	Wyze Buds	Model Name	WE1BLK
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	42.35	0.22	42.57	74	-31.43	peak
4960.000	34.28	0.22	34.5	54	-19.5	AVG
7440.000	38.47	2.64	41.11	74	-32.89	peak
7440.000	29.66	2.64	32.3	54	-21.7	AVG
emark:		e.C				60

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, Margin= Level-Limit.

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

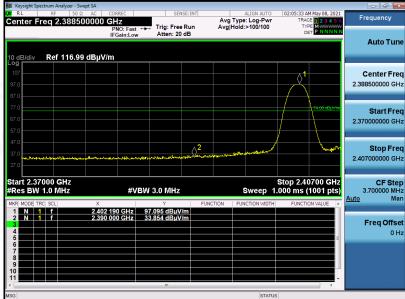
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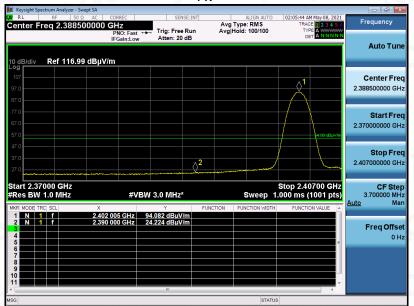
TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS					
EUT	Wyze Buds	Model Name	WE1BLK		
Temperature	25° C	Relative Humidity	55.4%		
Pressure	960hPa	Test Voltage	Normal Voltage		
Test Mode	Mode 1	Antenna	Horizontal		

TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

PK



AV



RESULT: PASS

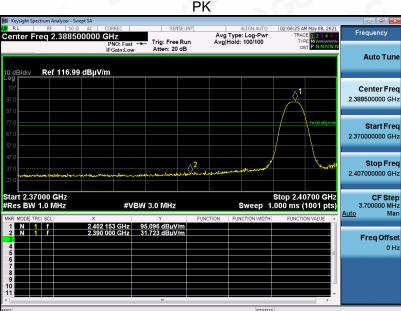
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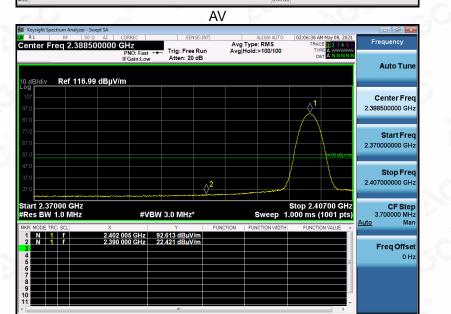
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EUT	Wyze Buds	Model Name	WE1BLK
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical
		DI	





RESULT: PASS

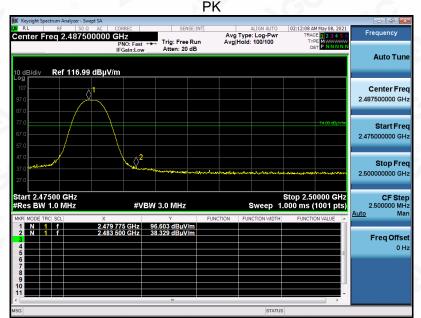
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the test results of the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 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.

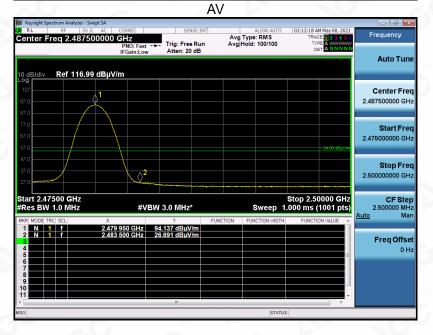
Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/



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EUT	Wyze Buds	Model Name	WE1BLK
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal
	B I(





RESULT: PASS

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the test of the definition of the report is not permitted without the written approver 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.



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Stop Free

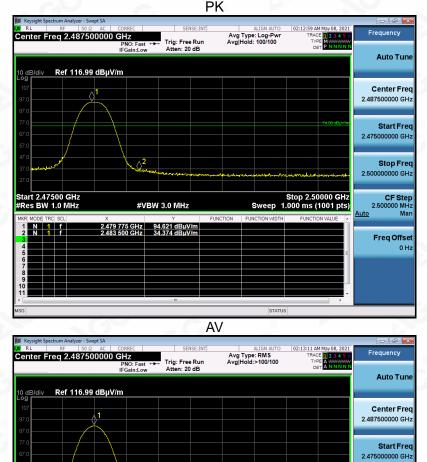
2.50000000 GH

CF S 2.500000 I

Freq Offset

\uto

EUT	Wyze Buds	Model Name	WE1BLK
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical



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

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the stand of the test results of the test results been altered in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day affective is not permitted without the written authorization of AGC of the test results be addressed to AGC by agc@agc~cert.com.

^2

2.479 950 GHz 91.663 dBµV/m 2.483 500 GHz 24.615 dBµV/m

#VBW 3.0 MHz*

tart 2.47500 GHz Res BW 1.0 MHz



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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to Attached file (AGC00593210401AP01)

APPENDIX B: PHOTOGRAPHS OF EUT Refer to Attached file (AGC00593210401AP01)

----END OF REPORT----

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the stand restriction of AGC. 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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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").

2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.

5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.

10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Perturn/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter authorization of AGC, 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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