

FCC Test Report

Report No.: AGC11896210101FE03

FCC ID	: 2ARYG-ISOUND	
APPLICATION PURPOSE	: Original Equipment	
PRODUCT DESIGNATION	: Wireless Earbuds	
BRAND NAME	: Palovue	
MODEL NAME	: iSound	
APPLICANT	: Foneric Technology Co., Ltd.	
DATE OF ISSUE	: Feb. 25, 2021	
STANDARD(S)	: FCC Part 15.247	
REPORT VERSION	: V1.0	



plianc



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	© /	Feb. 25, 2021	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	Foneric Technology Co., Ltd.	
Address	4/F, Fuxing Bldg, Binlang Road, Futian Free Trade Zone, SHENZHEN, China	
Manufacturer	Foneric Electronics Co., Ltd.	
Address	201, Floor 2, No.2 Building, Foxda Industrial Zone, Northern Lanzhu Road, Pingshan, Shenzhen, Guangdong, China	
Factory	Foneric Electronics Co., Ltd.	
Address	201,Floor 2,No.2 Building, Foxda Industrial Zone, Northern Lanzhu Road, Pingshan, Shenzhen, Guangdong, China	
Product Designation	Wireless Earbuds	
Brand Name	Palovue	
Test Model	iSound	
Date of test	Feb. 23, 2021 to Feb. 25, 2021	
Deviation	No any deviation from the test method	
Condition of Test Sample	Normal	
Test Result	Pass	
Report Template	AGCRT-US-BR/RF	

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC PART 15.247.

Prepared By

Then Hunny

Thea Huang Project Engineer

Feb. 25, 2021

Max Zhans

Reviewed By

Max Zhang Reviewer

Feb. 25, 2021

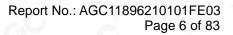
Approved By

Forrest Lei Authorized Officer

Feb. 25, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Wireless Earbuds". It is designed by way of utilizing the GFSK, π /4-DQPSK and 8DPSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480 GHz
RF Output Power	1.357dBm (Max)
Bluetooth Version	V 5.0
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps
Number of channels	79
Hardware Version	V03
Software Version	V1.15
Antenna Designation	Ceramic Antenna (Comply with requirements of the FCC part 15.203)
Antenna Gain	-1.0dBi
Power Supply	DC 3.7V by battery or DC 5V by adapter
	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 left 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
C 0	0	2402 MHz
		2403 MHz
O C	38	2440 MHz
2402~2480MHz	39	2441 MHz
	40	2442 MHz
° C		
No so	77	2479 MHz
	78	2480 MHz

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2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHz, in every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally, the type of connection (e.g. single of multi slot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also, the slave of the connection will use these settings. Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

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

2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

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

1. LAP/UAP of the master of the connection.

2. Internal master clock.

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

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

Regarding short transmissions the Bluetooth system has the following behavior:

The first connection between the two devices is established, a hopping sequence was generated. For Transmitting the wanted data the complete hopping sequence was not used. The connection ended.

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The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmission is longer (and it Cannot be shorter) than the minimum resolution of the clock(312.5us). The hopping sequence will always differ from the first one.

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

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

2.7. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.10. ANTENNA REQUIREMENT

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

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±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 spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %
- Uncertainty of Dwell Time: $Uc = \pm 2\%$
- Uncertainty of Frequency: $Uc = \pm 2 \%$

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION	
1	Low channel GFSK	
2	Middle channel GFSK	
3	High channel GFSK	
4	Low channel π/4-DQPSK	
5	Middle channel π/4-DQPSK	
6	High channel π/4-DQPSK	
0 7	Low channel 8DPSK	
8	Middle channel 8DPSK	
9	High channel 8DPSK	
10	Hopping mode GFSK	
11	Hopping mode π/4-DQPSK	
12	Hopping mode 8DPSK	

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

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

Software Setting

BlueTest3 - Test Cor	mmand Mode	-	- 🗆 🗙
Test Commands CFG UAP/LAP CFG IQ TRIM CFG TX TRIM CFG HOPFING SEQ CFG TX FOWER BLE TEST TX BLE TEST RX BLE TEST RX BLE TEST END Set Freq. Trims	Test Arguments Fower target (dBm)	0	Close Help Execute Reset
Test Results Save to file C:\Users\DELL\AppDe	rowse for f ta\Local\QTIL\BlueTest3\	Display : 🕫 Standard testapplog.txt	C BER
Radio Test TXDATA1 Radio Test CFG PKT Radio Test TXDATA1 Radio Test CFG PKT Radio Test CFG PKT Radio Test TXDATA1 ERROR: Packet Size Radio Test CFG PKT Radio Test CFG PKT Radio Test TXDATA1 Radio Test TGF PKT Radio Test CFG PKT Radio Test CFG PKT	successful successful successful successful successful for 2-DHS must be <= failed successful	: 679	^

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:

EUT

Conducted Emission Configure:

EUT	AE	

5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Wireless Earbuds	iSound	2ARYG-ISOUND	EUT
2	Control Box	QUALCOMM TRBI200	N/A	AE

5.3. SUMMARY OF TEST RESULTS

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

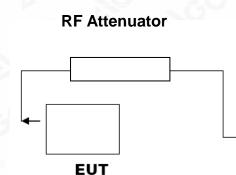
For peak power test:

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

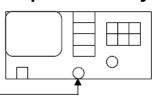
Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

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

PEAK POWER TEST SETUP



Spectrum Analyzer



RF Cable

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7.3. LIMITS AND MEASUREMENT RESULT

The left ear:

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION							
2.402	-1.311	30	Pass				
2.441	-1.347	30	Pass				
2.480	-1.418	30	Pass				



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CH39 06:15:10 PM Feb 24, 2021 ENSE:INT Avg Type: Log-Pwr Avg|Hold: 100/100 Frequency Center Freq 2.441000000 GHz Trig: Free Run Atten: 30 dB PNO: Fast IFGain:Low Auto Tune Mkr1 2.440 840 GHz -1.347 dBm Ref 20.00 dBm 10 dB/div **Center Freq** 2.441000000 GHz Start Freq 2.438500000 GHz Stop Freq 2.443500000 GHz **CF** Step 500.000 kHz <u>Auto</u> Mar **Freq Offset** 0 Hz Center 2.441000 GHz #Res BW 1.5 MHz Span 5.000 MHz Sweep 1.000 ms (1001 pts) #VBW 5.0 MHz STATUS

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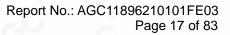
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PEAK OUTPUT POWER MEASUREMENT RESULT FOR Π/4-DQPSK MODULATION						
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail			
2.402	0.821	21	Pass			
2.441	0.780	21	Pass			
2.480	0.710	21	Pass			



CH0

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CH39



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Keysight Spectrum Analyzer - Swept SA					
RL RF 50 Ω AC Center Freq 2.48000000	CORREC	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	06:17:13 PM Feb 24, 2021 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast +++	Trig: Free Run Atten: 30 dB	Avg Hold: 100/100	DET P NNNN	
10 dB/div Ref 20.00 dBm			Mkr1	2.480 115 GHz 0.710 dBm	Auto Tur
10.0		.1			Center Fr 2.480000000 Gi
10.0		\			Start Fr 2.477500000 G
20.0					Stop Fr 2.482500000 G
40.0					CF St 500.000 k <u>Auto</u> M
50.0					Freq Offs 0
70.0					
Center 2.480000 GHz Res BW 1.5 MHz	#VBW	5.0 MHz	Sweep 1	Span 5.000 MHz .000 ms (1001 pts)	
SG			STATU	3	

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PEAK OUTPUT POWER MEASUREMENT RESULT FOR 8-DPSK MODULATION						
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail Pass			
2.402	1.357	21				
2.441	1.335	21	Pass			
2.480	1.284	21	Pass			

55 PM Feb 24, 2021 Frequency Avg Type: Log-Pwi Avg|Hold: 100/100 02000000 GHz Cen Trig: Free Run Atten: 30 dB PNO: Fast IFGain:Low Auto Tune Mkr1 2.402 040 GHz 1.357 dBm Ref 20.00 dBm 10 dB/div **Center Freq** 2.402000000 GHz 1 Start Freq 2.399500000 GHz Stop Freq 2.404500000 GH CF Step 500.000 kHz Man <u>Auto</u> Freq Offset 0 Hz Span 5.000 MHz Sweep 1.000 ms (1001 pts) Center 2.402000 GHz #Res BW 1.5 MHz #VBW 5.0 MHz

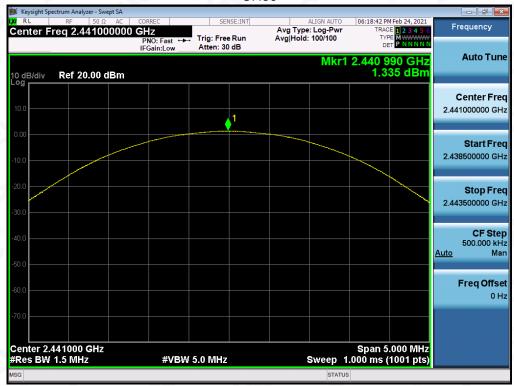
CH0

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CH39



CH78

J Keysight Spectrum Analyzer - Swept SA	CORREC S	ENCE-INT	ALIGN AUTO		
Center Freq 2.48000000	GHz		vg Type: Log-Pwr vg Hold: 100/100	06:19:06 PM Feb 24, 2021 TRACE 1 2 3 4 5 6 TYPE M WWWWW	Frequency
	PNO: Fast Trig: Fro IFGain:Low Atten: 3			DET PNNNN	Auto Tun
10 dB/div Ref 20.00 dBm			Mkr1	2.479 990 GHz 1.284 dBm	Auto Tul
					Center Fre
10.0		1			2.480000000 GH
0.00					Start Fre
-10.0					2.477500000 GH
-20.0					Stop Fre 2.482500000 GH
-30.0					2.482500000 GF
-40.0					CF Ste 500,000 kH
					Auto Ma
-50.0					
-60.0					Freq Offs 0 H
-70.0					
Center 2.480000 GHz #Res BW 1.5 MHz	#VBW 5.0 MH	Z	Sweep 1	Span 5.000 MHz .000 ms (1001 pts)	
MSG			STATUS		

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The right ear:

	PEAK OUTPUT POWER MEASUREMENT RESULT							
	FOR GFSK MOUDULATION							
Frequency (GHz)								
2.402	-1.948	21	Pass					
2.441	-1.996	21	Pass					
2.480	-2.088	21	Pass					

CH0



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CH78

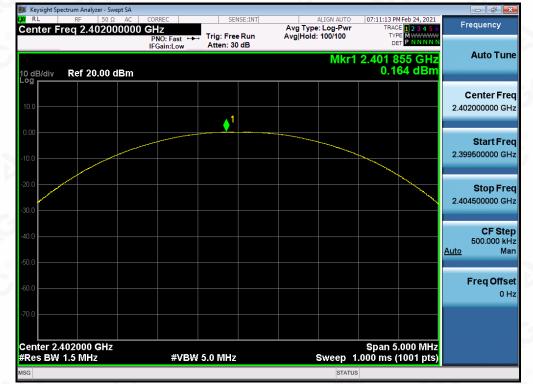


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	PEAK OUTPUT POWER MEASUR	REMENT RESULT		
	FOR Π/4-DQPSK MODU	ILATION		
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail	
2.402	0.164	21	Pass	
2.441	0.151	21	Pass	
2.480	0.076	21	Pass	



CH0

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CH39 Avg Type: Log-Pwr Avg|Hold: 100/100 Frequency Center Freq 2.441000000 GHz Trig: Free Run Atten: 30 dB PNO: Fast IFGain:Low Auto Tune Mkr1 2.440 835 GHz 0.151 dBm Ref 20.00 dBm 10 dB/div **Center Freq** 2.441000000 GHz ♦1 Start Freq 2.438500000 GHz Stop Freq 2.443500000 GHz CF Step 500.000 kHz <u>Auto</u> Ма **Freq Offset** 0 Hz

Center 2.441000 GHz #Res BW 1.5 MHz #VBW 5.0 MHz Sweep 1.000 ms (1001 pts)

CH78

	(2)			U	170				(P
	ectrum Analyzer - Swep	ot SA							
KI RL	RF 50 Ω	AC CORREC		SENSE:INT		ALIGN AUTO		M Feb 24, 2021	Frequency
Center F	req 2.48000(0000 GHZ PNO: F IFGain:		g: Free Run ten: 30 dB	Avg Typ Avg Hold	e: Log-Pwr d: 100/100	TY	CE 123456 PE MWWWW ET P NNNN	
0 dB/div	Ref 20.00 dl	Bm				Mkr1	2.479 8 0.0	860 GHz 76 dBm	Auto Ti
^{og}									Center F
0.0									2.480000000
~				↓ ¹					
.00									Start F
0.0									2.477500000
).0									Stop F
0.0								`	2.482500000
									CF S
).0									500.000
).0									<u>Auto</u>
									Freq Of
).0									Flequi
0.0									
enter 2	480000 GHz						Snan-5	.000 MHz	
	1.5 MHz		#VBW 5.0	MHz		Sweep 1	.000 ms ((1001 pts)	
SG .						STATUS			

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PEAK OUTPUT POWER MEASUREMENT RESULT FOR 8-DPSK MODULATION						
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail			
2.402	0.661	21	Pass			
2.441	0.642	21	Pass			
2.480	0.579	21	Pass			

2:32 PM Feb 24, 2021 Frequency Avg Type: Log-Pwi Avg|Hold: 100/100 02000000 GHz Cen Trig: Free Run Atten: 30 dB PNO: Fast IFGain:Low Auto Tune Mkr1 2.402 000 0.661 dBm Ref 20.00 dBm 10 dB/div **Center Freq** 2.402000000 GHz 1 Start Freq 2.399500000 GHz Stop Freq 2.404500000 GH CF Step 500.000 kHz Man <u>Auto</u> **Freq Offset** 0 Hz Span 5.000 MHz Sweep 1.000 ms (1001 pts) Center 2.402000 GHz #Res BW 1.5 MHz #VBW 5.0 MHz

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CH0

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CH39



CH78

Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC	CORREC	SENSE:INT	ALIGN A	UTO 07.10.00 D	M Feb 24, 2021	
Center Freq 2.48000000) GHz		Avg Type: Log-I Avg Hold: 100/10	Pwr TRAC	DE 1 2 3 4 5 6 DE MWWWW	Frequency
	PNO: Fast ++- IFGain:Low	Atten: 30 dB		DI	T P N N N N N	Auto Tui
0 dB/div Ref 20.00 dBm			M	kr1 2.479 9 0.5	90 GHz 79 dBm	Auto Tu
10.0						Center Fr 2.480000000 G
0.00		1				Otort Fr
10.0						Start Fr 2.477500000 G
20.0						Stop Fr 2.482500000 G
10.0						CF St 500.000 k
50.0						Auto N
0.0						Freq Offs 0
70.0						
enter 2.480000 GHz Res BW 1.5 MHz	#VBW	5.0 MHz	Swee	Span 5 p 1.000 ms (.000 MHz (1001 pts)	
SG			s	TATUS		

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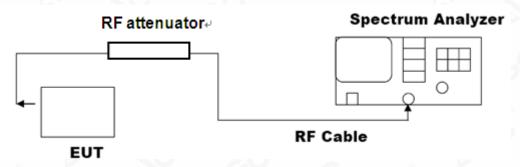


8. 20DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping channel The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

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



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 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 and a test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



8.3. LIMITS AND MEASUREMENT RESULTS

MEASUREMENT RESULT FOR GFSK MOUDULATION								
Applicable Limite	Measurement Result							
Applicable Limits	Test Data	Criteria						
	Low Channel	0.963	PASS					
N/A	Middle Channel	0.965	PASS					
	High Channel	0.963	PASS					

06:14:20 PM Feb 24, 2021 SENSE:INT Center Freq: 2.402000000 GHz Trig: Free Run Avg|Hol #Atten: 30 dB Frequency 102000000 GHz Radio Std: None Avg|Hold: 100/100 #IFGain:Low Radio Device: BTS Ref 20.00 dBm **Center Freq** 2.402000000 GHz Center 2.402 GHz #Res BW 30 kHz Span 3 MHz Sweep 3.2 ms CF Step 300.000 kHz #VBW 100 kHz <u>Auto</u> 6.33 dBm **Occupied Bandwidth Total Power** 864.40 kHz Freq Offset 0 Hz 4.141 kHz **Transmit Freq Error OBW Power** 99.00 % 962.6 kHz x dB Bandwidth x dB -20.00 dB

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

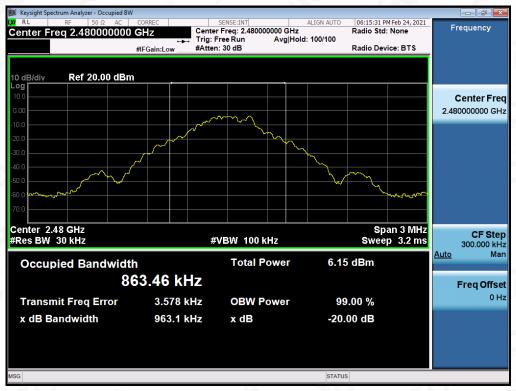
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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MEASUREMENT RESULT FOR II /4-DQPSK MODULATION								
Angliaghta Limita	Measurement Result							
Applicable Limits	Test Data	Criteria						
	Low Channel	1.335	PASS					
N/A	Middle Channel	1.336	PASS					
	High Channel	1.338	PASS					

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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MEASUREMENT RESULT FOR 8-DPSK MODULATION								
Applicable Limite	Measurement Result							
Applicable Limits	Test Data	Test Data (MHz)						
	Low Channel	1.311	PASS					
N/A	Middle Channel	1.312	PASS					
	High Channel	1.312	PASS					

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.
- Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
 RBW = 100 kHz; VBW= 300 kHz; Sweep = auto; Detector function = peak.
- 4. Set SPA Trace 1 Max hold, then View.

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

The same as described in section 8.2

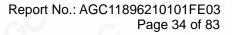
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT										
Annlinghing 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	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS								
power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -20dBc than the limit Specified on the TOP Channel	PASS								

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TEST RESULT FOR ENTIRE FREQUENCY RANGE

TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 8DPSK MODULATION IN LOW CHANNEL



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🊺 Key	🚺 Keysight Spectrum Analyzer - Swept SA														
LXI RL	L	RF	= 50	0Ω AC	C CORF		5	SENSE:INT			ALIGN AUTO		M Feb 24, 2021		Frequency
Cen	ter F	req	13.74	1750	000 GI	Hz	Trig: Fr	ee Run			: Log-Pwr 10/10	TRAC	DE 123456 PE MWWWW		riequency
						NO: Fast Gain:Low			U 181	Hoiu.	10/10	DE			
			_	_							Mice	4.04.00		ŕ	Auto Tune
	Mkr1 24.223 9 GHz 10 dB/div Ref 20.00 dBm -47.896 dBm														
10 dE Log	3/div	Re	f 20.0	0 dBm	<u>1</u>							-41.0			
10.0															
															Center Freq
0.00														13.7	41750000 GHz
-10.0															
-20.0													-21.35 dBm		
															Start Freq
-30.0														2.4	83500000 GHz
-40.0													<u>1</u> -		
-50.0															
								discussion in the			di di manda subme				Stop Freq
-60.0											مطفسين ببين يظعفانه			25.0	00000000 GHz
-70.0															
	t 2.48											Stop 2	5.00 GHz		CF Step
#Re:	s BW	100	kHz			#V	BW 300 kH	z			Sweep 2	2.152 s (3	0000 pts)		51650000 GHz
MKR N	MODE TR	aci sci			x		Y	FI	JNCTION	EUN	CTION WIDTH	EUNCTIO	DN VALUE	<u>Auto</u>	Man
	N 1				^ 24.223 9	9 GHz	-47.896 (NUTION	Ton	CHONWERT	Fonctio	JN VALUE		
2		<u>م الم</u>	i <u>s</u>												Tran Offerst
3		ه ا				.									Freq Offset
4						تككر							_		0 Hz
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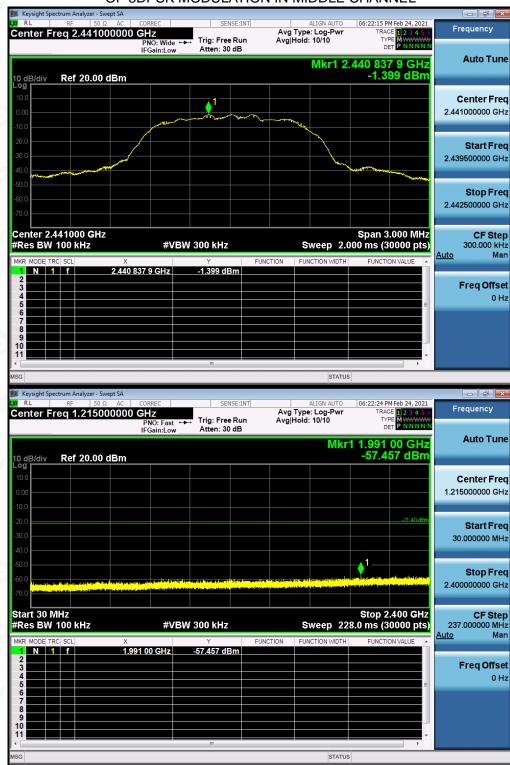
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 Attestation of Global Compliance(Shenzhen)Co., Ltd

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

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





TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN MIDDLE CHANNEL

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 Attestation of Global Compliance(Shenzhen)Co., Ltd

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

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

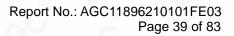
Web: http://cn.agc-cert.com/



Keysight Spectrum Analyzer - S					
RL RF 50 enter Freq 2.4800	Ω AC CORREC	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	06:23:34 PM Feb 24, 2021 TRACE 1 2 3 4 5 6	Frequency
	PNO: Wide ← IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Hold: 10/10	DET PNNNN	
			Mkr1 2	.480 169 8 GHz	Auto Tune
B/div Ref 20.00	dBm			-1.500 dBm	
					Center Freq
		•			2.480000000 GHz
			man when		
					Otort From
					Start Freq 2.478500000 GHz
			`` ``	- All and a second second	
					Otor Error
					Stop Freq 2.481500000 GHz
					2.481300000 GH2
nter 2.480000 GH	7			Span 3.000 MHz	CF Step
es BW 100 kHz		W 300 kHz	Sweep 2.0	000 ms (30000 pts)	300.000 kHz
MODE TRC SCL	Х		UNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
N 1 f	2.480 169 8 GHz	-1.500 dBm			
					Freq Offset 0 Hz
				E	0 112
	· ·	m		•	
			STATUS		
eysight Spectrum Analyzer - S RL RF 50	wept SA Ω AC CORREC	SENSE:INT	ALIGN AUTO	06:23:43 PM Feb 24, 2021	
nter Freq 1.2150	000000 GHz	Trin Frank	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast ← IFGain:Low	Atten: 30 dB		TYPE MWWWWW DET PNNNN	
			Mkr	1 2.185 11 GHz	Auto Tune
B/div Ref 20.00	dBm			-57.159 dBm	
					Center Freq
					1.215000000 GHz
				21.50.dBm	Start Freq
) <u> </u>					30.000000 MHz
)					Stop Freq
					2.40000000 GHz
art 30 MHz				Stop 2.400 GHz	CF Step
es BW 100 kHz		W 300 kHz		8.0 ms (30000 pts)	237.000000 MHz <u>Auto</u> Man
N 1 F	× 2.185 11 GHz	Y F -57.159 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	
	2, 100 TH GHZ				Freq Offset
					0 Hz
				E	
		III	STATUS	•	
G					

TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN HIGH CHANNEL

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		Spect	rum A	nalyzer - S		SA																	x
<mark>LXI</mark> F			RF	50 3.75		AC	CORR			SE	NSE:INT		Ava		LIGN AUTO	06:24		Feb 24, 2			Frequ	ency	
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Note: The 8DPSK modulation is the worst case and only those data recorded in the report.

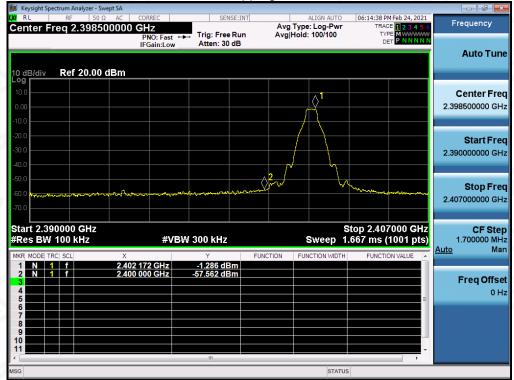
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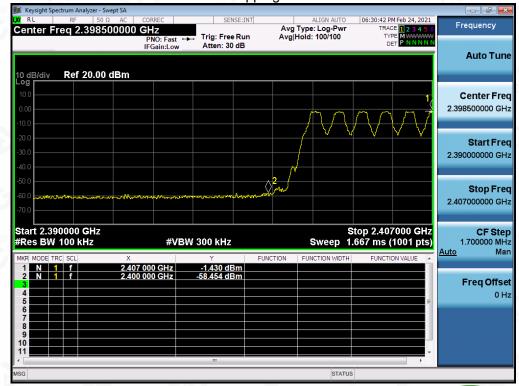
TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL

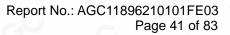
Hopping off



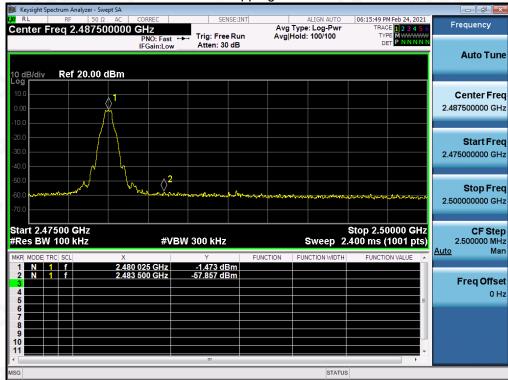
Hopping on



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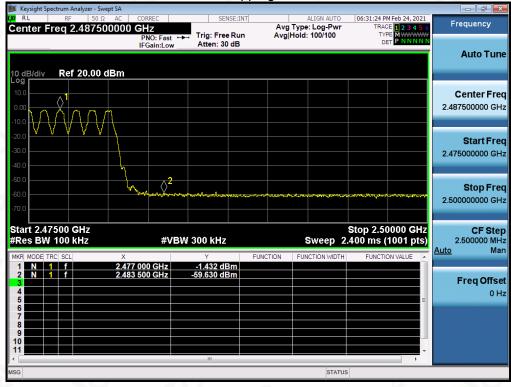




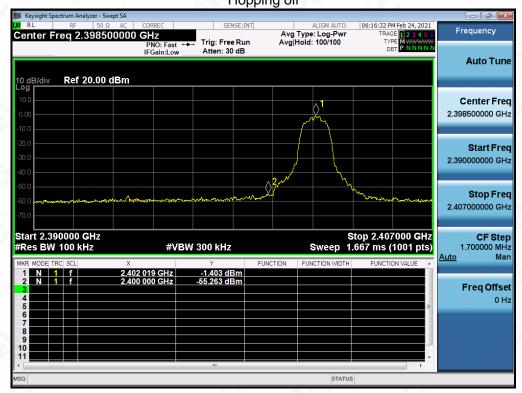
GFSK MODULATION IN HIGH CHANNEL

Hopping off

Hopping on

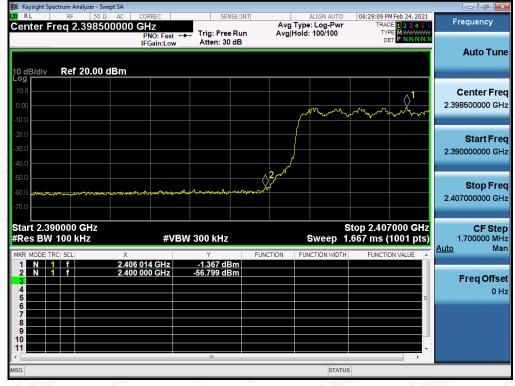


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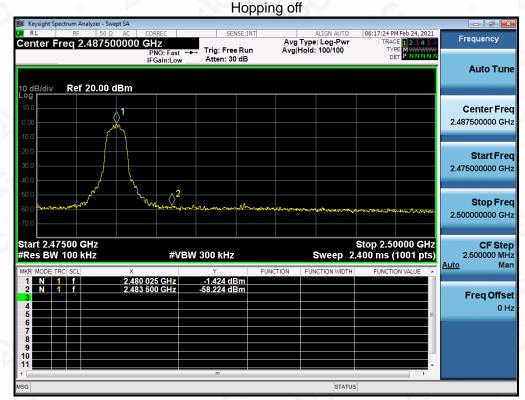
π /4-DQPSK MODULATION IN LOW CHANNEL Hopping off

Hopping on



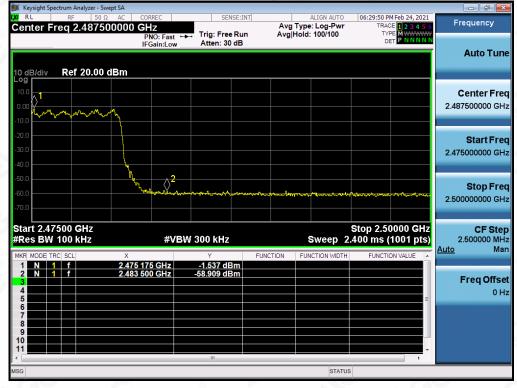
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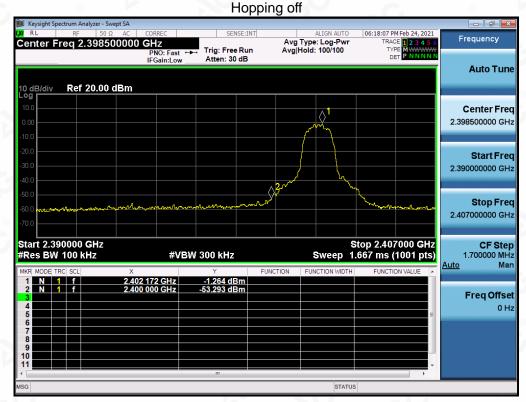
π /4-DQPSK MODULATION IN HIGH CHANNEL

Hopping on



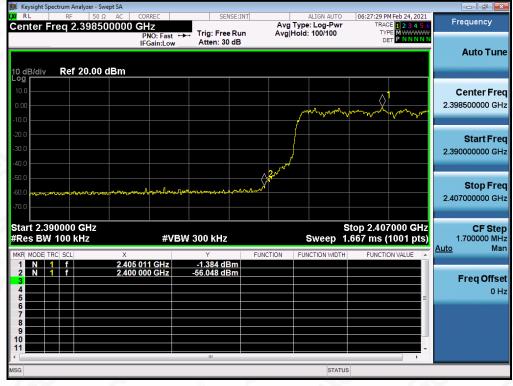
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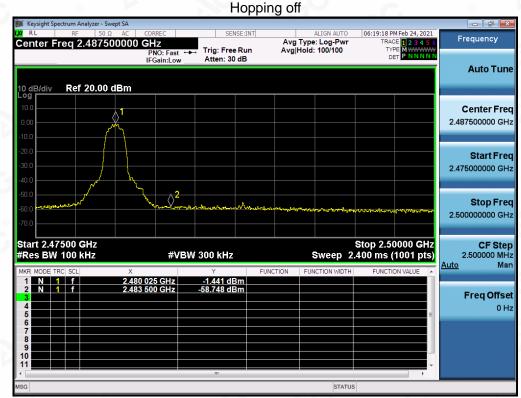
8-DPSK MODULATION IN LOW CHANNEL

Hopping on



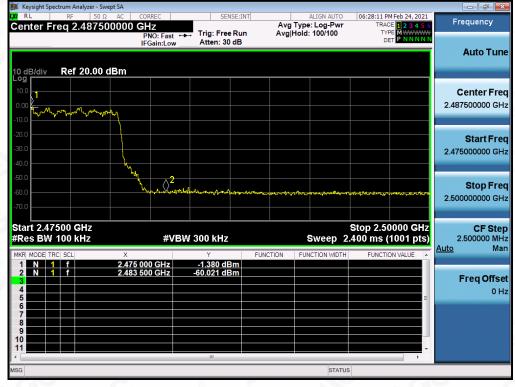
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8-DPSK MODULATION IN HIGH CHANNEL

Hopping on



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10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average

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

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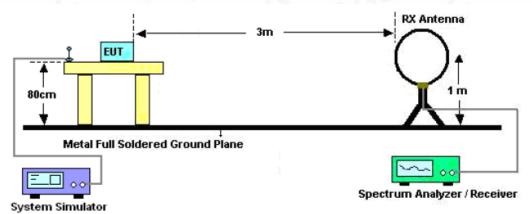
 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

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

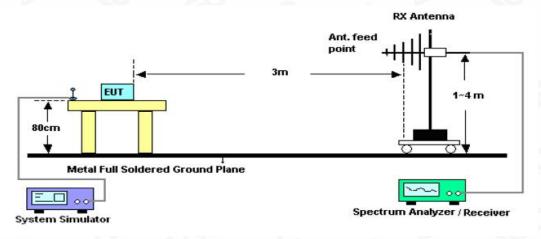


10.2. TEST SETUP

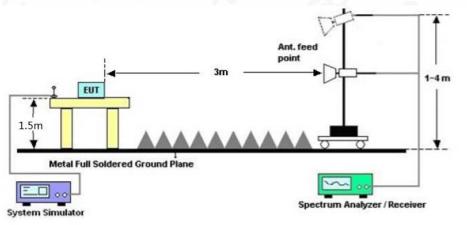
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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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/

10.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

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

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

10.4. TEST RESULT

RADIATED EMISSION BELOW 30MHz

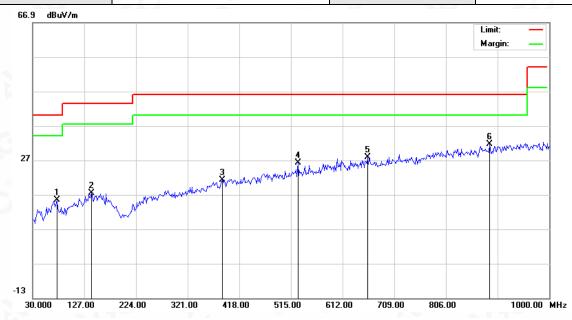
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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RADIATED EMISSION BELOW 1GHz

EUT	Wireless Earbuds	Model Name	iSound
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		75.2667	-0.60	15.97	15.37	40.00	-24.63	peak
2		139.9333	-1.74	19.23	17.49	43.50	-26.01	peak
3		385.6666	-1.18	22.48	21.30	46.00	-24.70	peak
4		527.9333	0.61	25.54	26.15	46.00	-19.85	peak
5		658.8832	0.17	27.66	27.83	46.00	-18.17	peak
6	*	888.4500	0.04	31.55	31.59	46.00	-14.41	peak

RESULT: PASS

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66.9

dBuV/m

Report No.: AGC11896210101FE03 Page 51 of 83

EUT	Wireless Earbuds	Model Name	iSound
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

Limit: Margin: 27 -13 30.000 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 1000.00 MHz Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m dBuV/m dB Detector 97.9000 4.26 15.79 20.05 43.50 -23.45 1 peak 2 267.6499 -0.97 18.93 17.96 46.00 -28.04 peak 3 422.8500 -0.30 23.44 23.14 46.00 -22.86 peak 4 587.7500 -1.00 26.71 25.71 46.00 -20.29 peak 762.3500 5 -0.15 29.56 29.41 46.00 -16.59peak

RESULT: PASS

6 *

Note: 1. Factor=Antenna Factor + Cable loss, Over= Measurement –Limit.

0.45

2. All test modes had been pre-tested. The mode 7 is the worst case and recorded in the report.

31.89

32.34

46.00

-13.66

peak

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922.3999



Report No.: AGC11896210101FE03 Page 52 of 83

RADIATED EMISSION ABOVE 1GHz

EUT	Wireless Earbuds	Model Name	iSound
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	1
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4804.000	45.26	0.08	45.34	74	-28.66	peak
4804.000	37.31	0.08	37.39	54	-16.61	AVG
7206.000	40.18	2.21	42.39	74	-31.61	peak
7206.000	32.45	2.21	34.66	54	-19.34	AVG
50	G			60	- 6	0
emark:		5	©		No.	
actor = Anter	nna Factor + Cab	le Loss – Pre-	amplifier.	8		

EUT	Wireless Earbuds	Model Name	iSound
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	○ (dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	44.63	0.08	44.71	74	-29.29	peak
4804.000	36.47	0.08	36.55	54	-17.45	AVG
7206.000	39.32	2.21	41.53	74	-32.47	peak
7206.000	30.38	2.21	32.59	54	-21.41	AVG
Remark:			R			

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

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EUT	Wireless Earbuds	Model Name	iSound
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 8	Antenna	Horizontal

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
45.48	0.14	45.62	74	-28.38	peak
38.29	0.14	38.43	54	-15.57	AVG
41.23	2.36	43.59	74	-30.41	peak
34.16	2.36	36.52	54	-17.48	AVG
			0	8	
	8			- 6	8
-	(dBµV) 45.48 38.29 41.23	(dBµV) (dB) 45.48 0.14 38.29 0.14 41.23 2.36	(dBµV) (dB) (dBµV/m) 45.48 0.14 45.62 38.29 0.14 38.43 41.23 2.36 43.59	(dBµV) (dB) (dBµV/m) (dBµV/m) 45.48 0.14 45.62 74 38.29 0.14 38.43 54 41.23 2.36 43.59 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 45.48 0.14 45.62 74 -28.38 38.29 0.14 38.43 54 -15.57 41.23 2.36 43.59 74 -30.41

EUT	Wireless Earbuds	Model Name	iSound
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 8	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
[©] (MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4882.000	45.36	0.14	45.5	74	-28.5	peak
4882.000	37.89	0.14	38.03	54	-15.97	AVG
7323.000	40.75	2.36	43.11	74	-30.89	peak
7323.000	31.68	2.36	34.04	54	-19.96	AVG
3						-
emark:					C.	R

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Report No.: AGC11896210101FE03 Page 54 of 83

EUT	Wireless Earbuds	Model Name	iSound
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	46.28	0.22	46.5	74	-27.5	peak
4960.000	38.36	0.22	38.58	54	-15.42	AVG
7440.000	41.29	2.64	43.93	74	-30.07	peak
7440.000	32.04	2.64	34.68	54	-19.32	AVG
8				C		
- C.	8			C.	0	
emark:	- 6	8			- 6	8
actor = Anter	nna Factor + Cable	Loss – Pre-	amplifier.			- G

EUT	Wireless Earbuds	uds Model Name	
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	45.63	0.22	45.85	74	-28.15	peak
4960.000	38.58	0.22	38.8	54	-15.2	AVG
7440.000	41.39	2.64	44.03	74	-29.97	peak
7440.000	33.12	2.64	35.76	54	-18.24	AVG
		CC -		G		0
emark:	®		<u>_</u>	G	8	

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.

All test modes had been tested. The 8DPSK modulation is the worst case and recorded in the report.

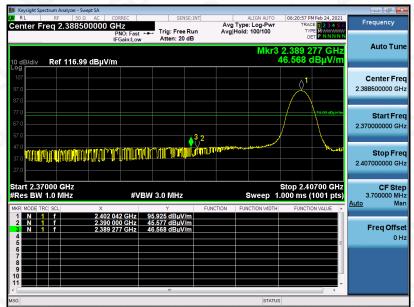
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Sedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written 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 15days after the issuence of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



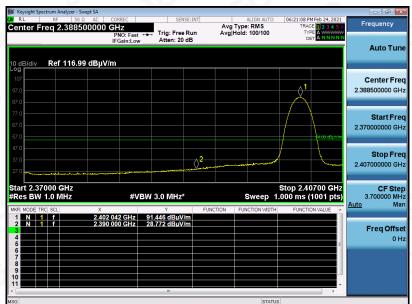
TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS						
EUT	Wireless Earbuds	Model Name	iSound			
Temperature	25°C	Relative Humidity	55.4%			
Pressure	960hPa	Test Voltage	Normal Voltage			
Test Mode	Mode 7	Antenna	Horizontal			

TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

PK



AV



RESULT: PASS

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