

FCC Test Report

Report No.: AGC01110200706FE03

FCC ID	: 2AOKB-A3119
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: Soundcore Mini 3
BRAND NAME	: Soundcore
MODEL NAME	: A3119
APPLICANT	: Anker Innovations Limited
DATE OF ISSUE	: Aug. 11, 2020
STANDARD(S)	: FCC Part 15.247
REPORT VERSION	: V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Aug. 11, 2020	Valid	Initial Release

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TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	5
2. GENERAL INFORMATION	6
2.1. PRODUCT DESCRIPTION	
2.2. TABLE OF CARRIER FREQUENCYS	6
2.3. RECEIVER INPUT BANDWIDTH	7
2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE	7
2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR	7
2.6. RELATED SUBMITTAL(S) / GRANT (S)	
2.7. TEST METHODOLOGY	
2.8. SPECIAL ACCESSORIES	8
2.9. EQUIPMENT MODIFICATIONS	
3. MEASUREMENT UNCERTAINTY	
4. DESCRIPTION OF TEST MODES	
5. SYSTEM TEST CONFIGURATION	
5.1. CONFIGURATION OF EUT SYSTEM	
5.2. EQUIPMENT USED IN TESTED SYSTEM	11
5.3. SUMMARY OF TEST RESULTS	
6. TEST FACILITY	
7. PEAK OUTPUT POWER	
7.1. MEASUREMENT PROCEDURE	
7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
7.3. LIMITS AND MEASUREMENT RESULT	
8. 20DB BANDWIDTH	
8.1. MEASUREMENT PROCEDURE	
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
8.3. LIMITS AND MEASUREMENT RESULTS	20
9. CONDUCTED SPURIOUS EMISSION.	
9.1. MEASUREMENT PROCEDURE	
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	27
9.3. MEASUREMENT EQUIPMENT USED	
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Report No.: AGC01110200706FE03 Page 4 of 63

9.4. LIMITS AND MEASUREMENT RESULT	
10. RADIATED EMISSION	40
10.1. MEASUREMENT PROCEDURE	40
10.2. TEST SETUP	42
10.3. LIMITS AND MEASUREMENT RESULT	
10.4. TEST RESULT	43
11. NUMBER OF HOPPING FREQUENCY	
11.1. MEASUREMENT PROCEDURE	53
11.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	
11.3. MEASUREMENT EQUIPMENT USED	53
11.4. LIMITS AND MEASUREMENT RESULT	53
12. TIME OF OCCUPANCY (DWELL TIME)	
12.1. MEASUREMENT PROCEDURE	
12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	54
12.3. MEASUREMENT EQUIPMENT USED	
12.4. LIMITS AND MEASUREMENT RESULT	
13. FREQUENCY SEPARATION	
13.1. MEASUREMENT PROCEDURE	58
13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	58
13.3. MEASUREMENT EQUIPMENT USED	
13.4. LIMITS AND MEASUREMENT RESULT	
14. FCC LINE CONDUCTED EMISSION TEST	59
14.1. LIMITS OF LINE CONDUCTED EMISSION TEST	59
14.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	59
14.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	60
14.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	
14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	63
APPENDIX B: PHOTOGRAPHS OF EUT	63

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1. VERIFICATION OF CONFORMITY

Applicant	Anker Innovations Limited	
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, longkong	
Manufacturer	Anker Innovations Limited	
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong	
Factory	GANZHOU DEHUIDA TECHNOLOGY CO., LTD	
Address	Dehuida Science and Technology Park, Huoyanshan Road, Anyuan District, Ganzhou City, Jiangxi Province. P.R China.	
Product Designation	Soundcore Mini 3	
Brand Name	Soundcore	
Test Model	A3119	
Date of test	luly 06, 2020 to Aug. 11, 2020	
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

Reviewed By

John Zerry

John Zeng Project Engineer

Aug. 11, 2020

Max Zhan

Max Zhang Reviewer

Aug. 11, 2020

Approved By

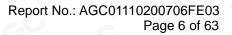
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Forrest Lei Authorized Officer

Aug. 11, 2020

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Soundcore Mini 3". It is designed by way of utilizing the GFSK, Pi/4 DQPSK and 8DPSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402GHz to 2.480GHz	
RF Output Power	11.663dBm(Max)	
Bluetooth Version	V5.0	
Modulation	BR \square GFSK, EDR \square π /4-DQPSK, \square 8DPSK BLE \square GFSK 1Mbps \square GFSK 2Mbps	
Number of channels	79 Channels	
Hardware Version	V3.0	
Software Version	V1.3	
Antenna Designation	PCB Antenna(Comply with requirements of the FCC part 15.203)	
Antenna Gain	0.6dBi	
Power Supply	DC 3.7V by battery or DC 5V by adapter	

2.2. TABLE OF CARRIER FREQUENCYS

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

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2.3. RECEIVER INPUT BANDWIDTH

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

connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.

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

2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

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

2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values: 1. LAP/UAP of the master of the connection.

2. Internal master clock

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

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

Regarding short transmissions the Bluetooth system has the following ehavior:

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

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

This submittal(s) (test report) is intended for **FCC ID: 2AOKB-A3119** 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.

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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 = ± 2 %
- Uncertainty of Frequency: $Uc = \pm 2 \%$

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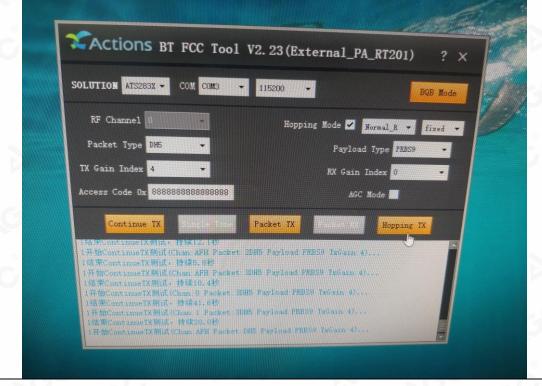
4. DESCRIPTION OF TEST MODES

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	
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 Conducted Test method, a temporary antenna connector is provided by the manufacture.
 - 3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

Software Setting



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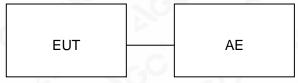
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure :



Conducted Emission Configure :

EUT	AE	

5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Soundcore Mini 3	A3119	2AOKB-A3119	EUT
2	Control Box	N/A	USB-TTL	AE
3	Adapter	XCMS03-0510	DC 5V	AE
4	Type-C Cable	N/A	0.6m unshielded	Accessory

5.3. SUMMARY OF TEST RESULTS

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

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6. TEST FACILITY

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

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N Cal. Date		Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 15, 2020	May 14, 2022
LISN	R&S	ESH2-Z5	100086	Aug. 26, 2019	Aug. 25, 2020
Test software	R&S	ES-K1 (Ver V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due	
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2022	
EXA Signal Analyzer	e Adiient		MY53470504	Dec. 12, 2019	Dec. 11, 2020	
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022	
Attenuator ZHINAN		E-002 N/A		Sep. 09, 2019	Sep. 08, 2020	
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 09, 2019	Sep. 08, 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	Oct. 15, 2019	Oct. 16, 2020	
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 09, 2019	Jan. 08, 2021	
Test software	FARA	EZ-EMC (Ver RA-03A)	N/A	N/A	N/A	

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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

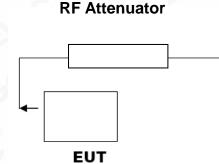
For peak power test:

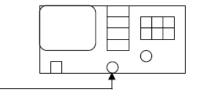
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 3. RBW > 20 dB bandwidth of the emission being measured.
- 4. VBW \geq RBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7.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



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7.3. LIMITS AND MEASUREMENT RESULT

	PEAK OUTPUT POWER MEA	SUREMENT RESULT				
FOR GFSK MOUDULATION						
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail			
2.402	2.402 11.473		Pass			
2.441	11.663	30	Pass			
2.480	11.545	30	Pass			

Frequency Freq 2.402000000 GHz PNO: Fast IFGain:Low Avg Type: Log-Pwr Avg|Hold: 100/100 Center Trig: Free Run Atten: 30 dB Auto Tune Mkr1 2.401 880 GH: 11.473 dBm 10 dB/div Ref 20.00 dBm \blacklozenge^1 **Center Free** 2.402000000 GH Start Fre 2.399500000 GH Stop Free 2.404500000 GH CF Step 500.000 kH Auto Mai Freq Offse 0 ⊢ Center 2.402000 GHz #Res BW 1.5 MHz Span 5.000 MHz Sweep 1.000 ms (1001 pts) #VBW 5.0 MHz

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	FOR II /4-DQPSK N	IODULATION	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	11.451	21	Pass
2.441	11.655	21	Pass
2.480	11.521	21	Pass





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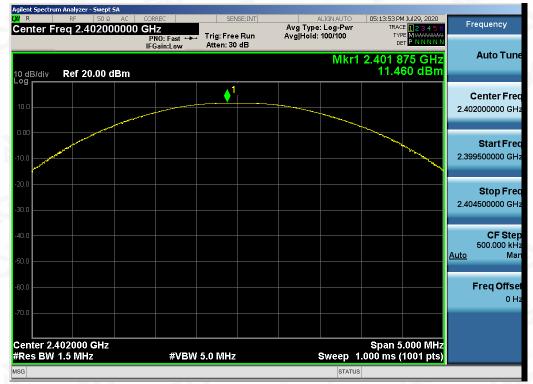
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<mark>ilent Spectrum Analyzer - Swept SA</mark> R RF 50 Ω AC		SENSE:INT	ALIGNAUTO	05:13:15 PM Jul 29, 2020	Frequency
enter Freq 2.4800000		Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 100/100	TRACE 123456 TYPE MINIMUM	Frequency
	PNO: Fast ↔ IFGain:Low	Atten: 30 dB	<u>_</u> .		Auto Tu
dB/div Ref 20.00 dBm	1		Mkr1	2.480 015 GHz 11.521 dBm	Auto Tt
		1			Center F 2.480000000
.00					
3.0					Start F 2.477500000
0.0					Stop F
.0					2.482500000
0.0					CF S 500.000 Auto
					_
0.0					Freq Of
enter 2.480000 GHz Res BW 1.5 MHz	#VBW	5.0 MHz	Sweep 1	Span 5.000 MHz .000 ms (1001 pts)	
G			STATUS	3	

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PEAK OUTPUT POWER MEASUREMENT RESULT FOR 8DPSK MODULATION						
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail			
2.402	11.460	21	Pass			
2.441	11.646	21	Pass			
2.480	11.508	21	Pass			





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CH39



CH78

jilent Spectrum Analyzer - Swept SA / R RF 50 Ω AC	CORREC	SENSE:INT	ALIGNAUTO	05:15:33 PM Jul 29, 2020	_
enter Freq 2.48000000	OGHz PNO: Fast ↔⊷	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N	Frequency
	IFGain:Low	Atten: 30 dB			Auto Tu
0 dB/div Ref 20.00 dBm			Mkr1	2.479 805 GHz 11.508 dBm	Autoru
		↓ ¹			Center Fr
10.0					2.480000000 G
0.00					Start Fi
0.0					2.477500000 0
0.0					
					Stop F 2.482500000 (
0.0					
0.0					CF S 500.000
0.0					Auto I
0.0					Freq Off
0.0					C
enter 2.480000 GHz Res BW 1.5 MHz	#VBW	5.0 MHz	Sweep_1	Span 5.000 MHz I.000 ms (1001 pts)	
sg			STATUS		

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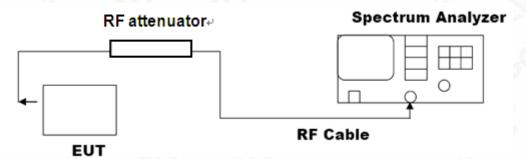


8. 20DB BANDWIDTH

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)



8.3. LIMITS AND MEASUREMENT RESULTS

MEASUREMENT RESULT FOR GFSK MOUDULATION						
Appliechle Limite	Measurement Result					
Applicable Limits	Test Data	Criteria				
	Low Channel	0.9400	PASS			
N/A	Middle Channel	0.9485	PASS			
	High Channel	0.9405	PASS			

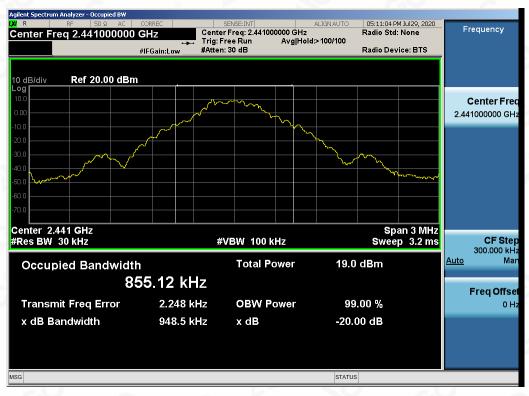
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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

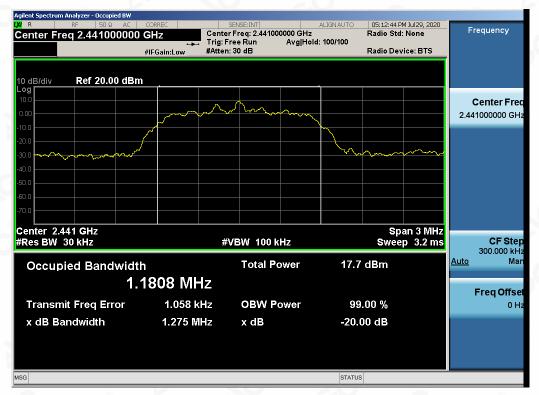
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MEASUREMENT RESULT FOR II /4-DQPSK MODULATION						
Annlinghla Limita	Measurement Result					
Applicable Limits	Test Data	Criteria				
	Low Channel	1.269	PASS			
N/A	Middle Channel	1.275	PASS			
	High Channel	1.277	PASS			

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

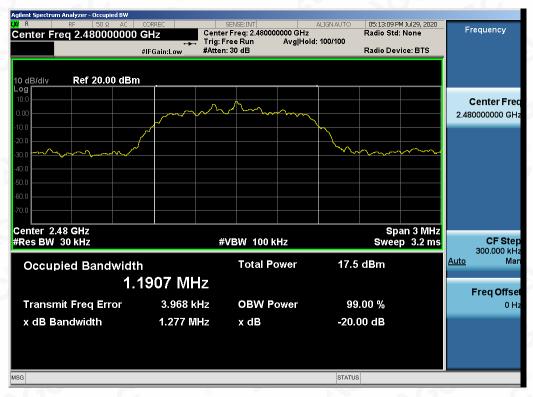


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

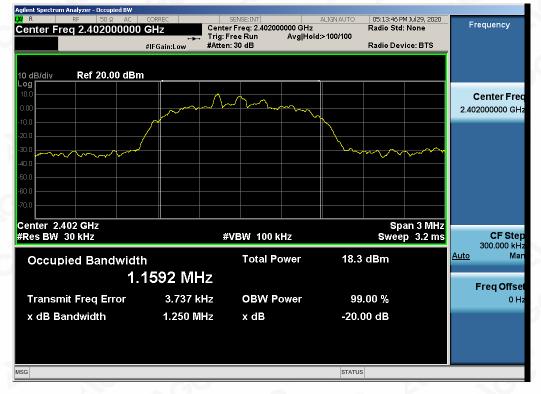


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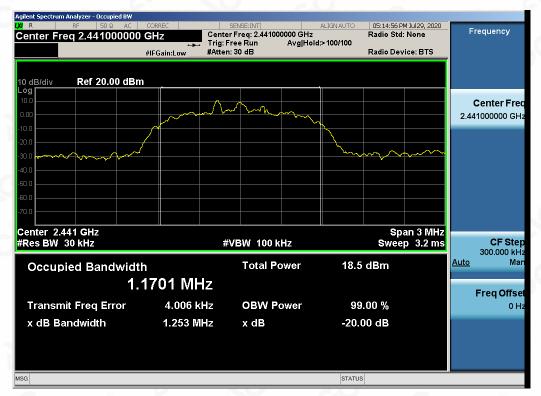


MEASUREMENT RESULT FOR 8DPSK MODULATION						
Applicable Limits	Measurement Result					
	Test Da	Criteria				
N/A	Low Channel	1.250	PASS			
	Middle Channel	1.253	PASS			
	High Channel	1.258	PASS			

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

Appliachta Limita	Measurement Result					
Applicable Limits	Test Data	Criteria				
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS				
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. 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

05:16:22 PM Jul 29, 2020 Frequency Center Freq 2.402000000 GHz PNO: Wide IFGain:Low Avg Type: Log-Pwr Avg|Hold: 10/10 RACE 12 Trig: Free Run TYP Atten: 30 dB Auto Tune Mkr1 2.401 836 9 GHz 11.295 dBm Ref 20.00 dBm 10 dB/div _og **r** 1 **Center Free** 2.402000000 GH Start Free 2.400500000 GH: Stop Free 2.403500000 GHz Center 2.402000 GHz #Res BW 100 kHz Span 3.000 MHz Sweep 2.000 ms (30000 pts) CF Step 300.000 kHz #VBW 300 kHz <u>Auto</u> Mar Mł FUNCTION 2.401 836 9 GHz 11.295 dBm N 1 f Freq Offse 0 H STATUS R Frequency Avg Type: Log-Pwr Avg|Hold: 10/10 Center Freq 1.210000000 GHz Trig: Free Run Atten: 30 dB Auto Tune Mkr1 2.380 72 GHz -54.015 dBm 10 dB/div Log Ref 20.00 dBm **Center Fred** 1.210000000 GH: Start Fred 30.000000 MHz Stop Free 2.390000000 GH Start 30 MHz #Res BW 100 kHz Stop 2.390 GHz Sweep 226.0 ms (30000 pts) CF Step 236.00000 MHz #VBW 300 kHz Mar <u>Auto</u> FUNCTION FUNCTION WIDTH FUNCTION . 2.380 72 GHz -54.015 dBm Freq Offse 0 H 10 1,1 STATUS

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Report No.: AGC01110200706FE03 Page 29 of 63



Agilent Spectrum Analyzer								
LXI R RF		DRREC	SENSE:IN		ALIGN AUTO		4 Jul 29, 2020	Frequency
Center Freq 13.	741750000	GHz	Trig: Free Ru		Type: Log-Pwr Hold: 10/10	TRA: TV		ricqueriey
		PNO: Fast ↔ FGain:Low	Atten: 30 dB			D	PE MWWWWW ET P N N N N N	
		Contraction Contraction				1 0 1 1 0		Auto Tune
					IVIKI	1 24.13	98 GHZ	
10 dB/div Ref 20	0.00 dBm					-48.8	88 dBm	
Log								
10.0								Center Freq
0.00								13.741750000 GHz
-10.0		_					-8.71 dBm	
-20.0								
								Start Fred
-30.0								2.483500000 GHz
-40.0							<u> </u>	
-50.0						duran dalar	<u>_</u>	
	Westmann, and state . Anothe		الخوي فاستحد ومالحي	and a strate whether			No. of Concession, Name	Stop Fred
-60.0 contract to all of the	Statistical and a second second second	Martin		<u>المحمد المحمد المحم</u>				25.000000000 GHz
-70.0								25.00000000 GH2
Start 2.48 GHz					_	Stop 2	5.00 GHz	CF Step
#Res BW 100 kH	Z	#VBW	300 kHz		Sweep	2.152 s (3	0000 pts)	2.251650000 GHz
MKR MODE TRC SCL	×		Y	FUNCTION	FUNCTION WIDTH	FUNCTIO	IN VALUE	<u>Auto</u> Man
1 N 1 f	24.139	8 GHz -	48.888 dBm					
2								
3								Freq Offset
5								0 Hz
6								
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 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



R RF 50 S Center Freq 2.4410	00000 GHz	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	05:19:05 PM Jul 29, 2020 TRACE 123456 TYPE MWWWWW	Frequency
	PNO: Wide ↔ IFGain:Low	 Trig: Free Run Atten: 30 dB 	Avg Hold: 10/10		
			Mkr1 2.	440 835 1 GHz 11.465 dBm	Auto Tu
0 dB/div Ref 20.00	dBm	<u> </u>		11.405 UBIII	
10.0		- Martin and the	harman and a second sec		Center Fi
10.0					2.441000000 0
20.0	With the second s			man man	Start Fi
30.0					2.439500000 0
40.0 					
60.0					Stop F
70.0					2.442500000 (
Center 2.441000 GHz			O	Span 3.000 MHz	CF Si
KRES BW 100 KHZ	#VDV	V 300 kHz	Sweep 2.0	00 ms (30000 pts)	300.000 I <u>Auto</u> M
1 N 1 f	2.440 835 1 GHz	11.465 dBm			
3					Freq Off
5					C
7 8					
9 10					
SG					
			STATUS		
R RF 50 \$	Ω AC CORREC	SENSE:INT	ALIGN AUTO	05:19:14 PM Jul 29, 2020	Fraguaray
R RF 50 \$	Ω AC CORREC 000000 GHz PN0: Fast ↔	Trig: Free Run		05:19:14 PM Jul 29, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NN NN	Frequency
R RF 50 \$	Ω AC CORREC		ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 123456 TYPE MWWWWW DET PNNNNN	
Center Freq 1.2150 Center Freq 1.2150 CodB/div Ref 20.00	Ω AC CORREC 1000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	05:19:14 PM Jul 29, 2020 TRACE 2 3 4 5 6 TYPE MANNAN DET PINNNNN 2.312 86 GHz -52.382 dBm	
Call Antice Pred 1.2150 Call Antice Pred 1.2150 Call Antice Pred 1.2150 Call Antice Pred 20.00 Call Antice Pred 20	Ω AC CORREC 1000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 23456 TYPE MWWWW DET PNNNNN 2.312 86 GHz	Auto Tu
C dB/div Ref 20.00	Ω AC CORREC 1000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 23456 TYPE MWWWW DET PNNNNN 2.312 86 GHz	Auto Tu Center F
R RF S0 4 Center Freq 1.2150	Ω AC CORREC 1000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 12 3 4 5 G TYPE M WWWWWW DET P NNNNN 2.312 86 GHz -52.382 dBm	Auto Tu Center F
R RF 50 4 Senter Freq 1.2150	Ω AC CORREC 1000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 12 3 4 5 G TYPE M WWWWWW DET P NNNNN 2.312 86 GHz -52.382 dBm	Auto Tu Center F 1.21500000 0 Start F
R RF 50.4 center Freq 1.2150 S0.4 S0.4 0 dB/div Ref 20.00 S0.00 90	Ω AC CORREC 1000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 12 3 4 5 G TYPE M WWWWWW DET P NNNNN 2.312 86 GHz -52.382 dBm	Auto Tu Center F 1.215000000 0 Start Fi
R RF 50.4 center Freq 1.2150 S0.4 S0.4 0 dB/div Ref 20.00 S0.4 0 0 0 S0.4 S0.4 0 0 0 S0.4 S0.4 S0.4 S0.4 S0.4	Ω AC CORREC 1000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 12 3 4 5 G TYPE M WWWWWW DET P NNNNN 2.312 86 GHz -52.382 dBm	Auto Tu Center F 1.215000000 (Start F 30.000000 M
R RF S0.4 center Freq 1.2150 S0.4 S0.4 0 dB/div Ref 20.00 S0.4 0 0 S0.4 S0.4 S0.4 0 0 S0.4 S0.4 S0.4 S0.4 0 0 S0.4 S0.4 <th< td=""><td>Ω AC CORREC 1000000 GHz PN0: Fast ↔ IFGain:Low</td><td>Trig: Free Run</td><td>ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10</td><td>TRACE 12 3 4 5 G TYPE M WWWWWW DET P NNNNN 2.312 86 GHz -52.382 dBm</td><td>Auto Tu Center F 1.21500000 0 Start F 30.000000 N Stop F</td></th<>	Ω AC CORREC 1000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 12 3 4 5 G TYPE M WWWWWW DET P NNNNN 2.312 86 GHz -52.382 dBm	Auto Tu Center F 1.21500000 0 Start F 30.000000 N Stop F
R RF S0 (2000) Senter Freq 1.2150 S0 (2000) O dB/div Ref 20.00 O dD/div Ref 20.00 <	Ω AC CORREC 1000000 GHz PN0: Fast ↔ IFGain:Low	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 11 2 3 4 5 G TYPE MWWWWWW DET P NNNNN 2.312 86 GHz -52.382 dBm -354 dBm	Auto Tu Center F 1.215000000 0 Start Fi 30.000000 M Stop Fi 2.400000000 0
R RF S0.4 Center Freq 1.2150 S0.4 S0.4 Odd/div Ref 20.00 S0.4 Ogd S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4 S0.4	Q AC CORREC 1000000 GHz PR0: Fast → IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr1	TRACE 12 3 4 5 G TYPE M WWWWWW DET P NNNNN 2.312 86 GHz -52.382 dBm	Auto Tu Center F 1.215000000 N Start Fr 30.000000 N Stop F 2.400000000 0 CF Si 237.000000 N
R RF S0.4 Center Freq 1.2150 S0.4 S0.4 Code/div Ref 20.00 S0.4 O dB/div Ref 20.00 S0.4 S0.0 S0.4 S0.4 S0.4 S0.0 S0.4 S0.4 S0.4 S0.4 S0.0 S0.4	Q AC CORREC 100000 GHZ PR0: Fast → IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr1	TRACE 11 2 3 4 5 G TYPE M WWWWWW DET P NNNNN 2.312 86 GHz -52.382 dBm -354 dBm -354 dBm -1 -1 -554 dBm -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	Auto Tu Center Fi 1.215000000 N Start Fi 30.00000 N Stop Fi 2.400000000 CF St 237.00000 N
R RF S0 4 center Freq 1.2150 S0 4 0 dB/div Ref 20.00	2 AC CORREC 1000000 GHz PR0: Fast → IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log.Pwr Avg Hold: 10/10 Mkr1	TRACE 12 3 4 5 G TYPE MWWWWWC CET P NNNNN 2.312 86 GHz -52.382 dBm -854 dBm -1 -854 dBm -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	Auto Tu Center F 1.215000000 M Start F 30.000000 M Stop F 2.400000000 0 CF S 237.000000 M Auto
Center Freq 1.2150	Q AC CORREC 100000 GHZ PR0: Fast → IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log.Pwr Avg Hold: 10/10 Mkr1	TRACE 12 3 4 5 G TYPE MWWWWWC CET P NNNNN 2.312 86 GHz -52.382 dBm -854 dBm -1 -854 dBm -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	Auto Tu Center Fi 1.215000000 C Start Fi 30.000000 M Stop Fi 2.400000000 C CF St 237.000000 M Auto M
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TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN MIDDLE CHANNEL

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Festing/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 AGE. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

Report No.: AGC01110200706FE03 Page 31 of 63



	ctrum Ana	lyzer - Swept											
LXI R	RF			IORREC		SENS	SE:INT		ALIGN AUTO		M Jul 29, 2020	_ Fred	uency
Center	r Freq	13.7417	/50000		— ,	Frig: Free	Run		Type: Log-Pwr Hold: 10/10	IRA TY	CE 123456		ucinoy
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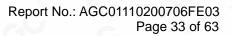
 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



^a R Center Fre	RF 50 Ω AC eq 2.4800000		► Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	TYPE	123456 M WWWWW PNNNNN	Frequency
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11 ISG gilent Spectrum <i>A</i> K	RF 50 Ω AC	00 GHz		ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	05:20:35 PM : TRACE TYPE DET 1 2.351 7	Dul29, 2020 1 2 3 4 5 6 M MMMMMM P N N N N N 3 GHz	
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TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN HIGH CHANNEL

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	Spectrun		zer - Swept !												
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Note: The 8DPSK modulation is the worst case and only those data recorded in the report.

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 Attestation of Global Compliance(Shenzhen)Co., Ltd

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

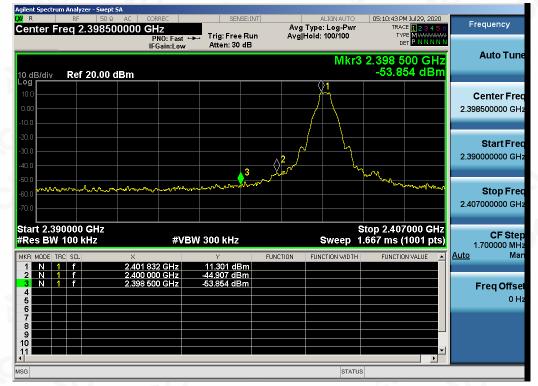
 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



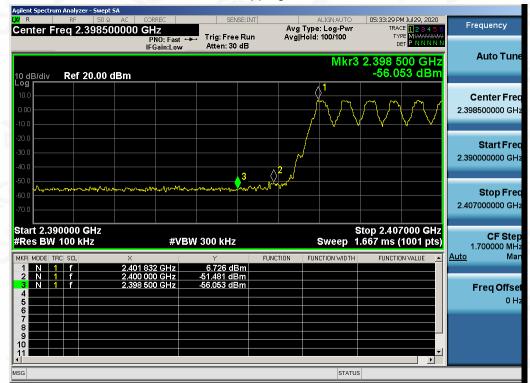
TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL

Hopping off



Hopping on

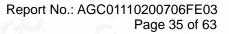


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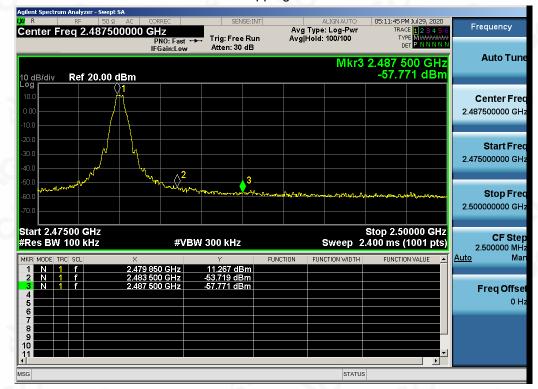
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 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

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

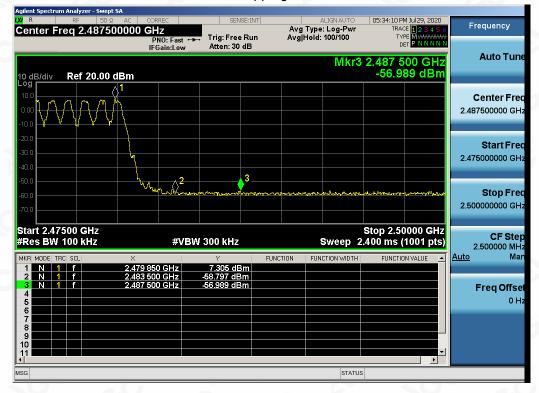






GFSK MODULATION IN HIGH CHANNEL Hopping off

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 off

Hopping on



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8-DPSK MODULATION IN LOW CHANNEL Hopping off

Hopping on



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8-DPSK MODULATION IN HIGH CHANNEL Hopping off

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

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

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

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

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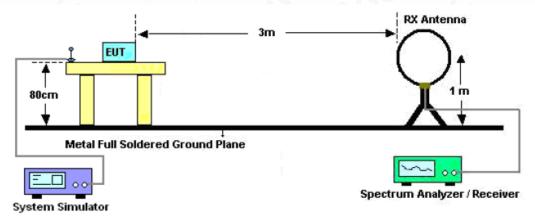
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 E-mail: agc@agc-cert.com

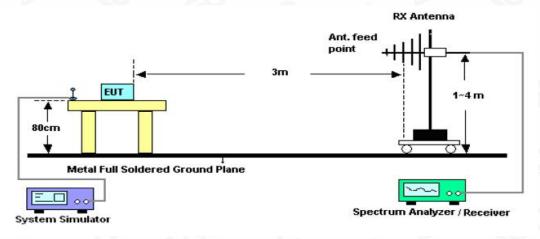


10.2. TEST SETUP

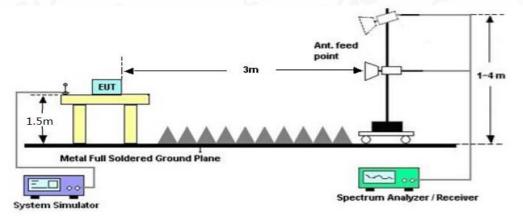
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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10.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/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

Emissions are attenuated more than 20 dB below the permissible value.

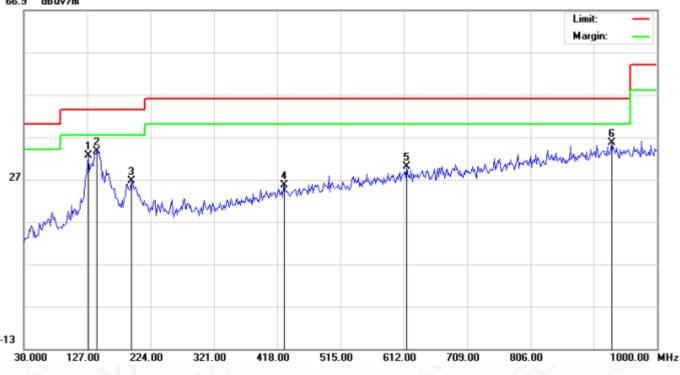
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RADIATED EMISSION BELOW 1GHZ

EUT	Soundcore Mini 3	Model Name	A3119
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

66.9 dBuV/m



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector
		•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
5	1		128.6167	14.18	18.51	32.69	43.50	-10.81	peak
	2	*	141.5500	14.46	19.23	33.69	43.50	-9.81	peak
C	3		194.9000	12.54	14.10	26.64	43.50	-16.86	peak
	4		429.3167	1.96	23.57	25.53	46.00	-20.47	peak
	5		616.8500	2.89	27.15	30.04	46.00	-15.96	peak
	6		930.4833	3.72	31.96	35.68	46.00	-10.32	peak

RESULT: PASS

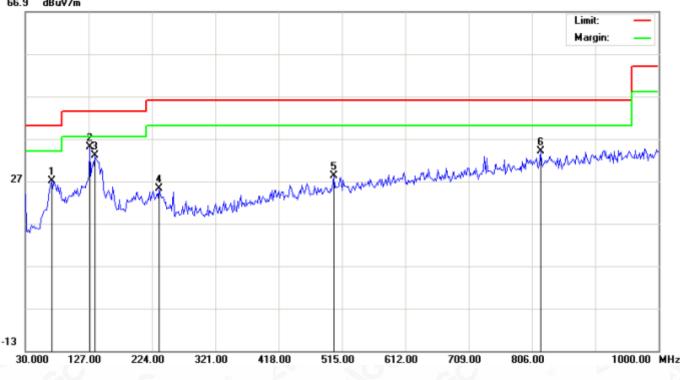
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Report No.: AGC01110200706FE03 Page 45 of 63

EUT	Soundcore Mini 3	Model Name	A3119	
Temperature	25°C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	Mode 2	Antenna	Vertical	

66.9 dBuV/m



No	, Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		70.4167	9.90	17.02	26.92	40.00	-13.08	peak
2	*	128.6167	16.40	18.51	34.91	43.50	-8.59	peak
3		136.7000	13.91	19.02	32.93	43.50	-10.57	peak
4		235.3167	7.27	17.86	25.13	46.00	-20.87	peak
5		502.0667	3.17	25.03	28.20	46.00	-17.80	peak
6		818.9333	3.38	30.65	34.03	46.00	-11.97	peak

RESULT: PASS

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

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

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Report No.: AGC01110200706FE03 Page 46 of 63

RADIATED EMISSION ABOVE 1GHZ

EUT	Soundcore Mini 3	Model Name	A3119
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.000	45.67	0.08	45.75	74	-28.25	peak 💿
4804.000	36.58	0.08	36.66	54	-17.34	AVG
7206.000	47.52	2.21	49.73	74	-24.27	peak
7206.000	39.43	2.21	41.64	54	-12.36	AVG
<u>so</u>	20				-CC	
Remark:			©			C.V
actor = Anter	na Factor + Cable	e Loss – Pre-	amplifier.	8		

EUT	Soundcore Mini 3	Model Name	A3119
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	45.73	0.08	45.81	74	-28.19	peak
4804.000	36.31	0.08	36.39	54	-17.61	AVG
7206.000	[©] 48.94	2.21	51.15	74	-22.85	peak
7206.000	39.15	2.21	41.36	54	-12.64	AVG
		-6 ⁰	6			0
mark:						

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

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Report No.: AGC01110200706FE03 Page 47 of 63

EUT	Soundcore Mini 3	Model Name	A3119
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4882.000	45.68	0.14	45.82	74	-28.18	peak
4882.000	37.47	0.14	37.61	54	-16.39	AVG
7323.000	48.52	2.36	50.88	74	-23.12	peak
7323.000	38.71	2.36	41.07	54	-12.93	AVG
C.	6				®	
emark:	- 61	8			- 61	3
actor = Anter	na Factor + Cable	Loss – Pre-	amplifier.			- 6

EUT	Soundcore Mini 3	Model Name	A3119
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)	
4882.000	46.35	0.14	46.49	74	-27.51	peak
4882.000	38.82	0.14	38.96	54	-15.04	AVG
7323.000	49.71	2.36	52.07	74	-21.93	peak
7323.000	41.21	2.36	43.57	54	-10.43	AVG
9				G	- 6	8
						G

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

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Report No.: AGC01110200706FE03 Page 48 of 63

EUT	Soundcore Mini 3	Model Name	A3119
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	46.9	0.22	47.12	74	-26.88	peak
4960.000	38.76	0.22	38.98	54	-15.02	AVG
7440.000	49.22	2.64	51.86	74	-22.14	peak
7440.000	40.43	2.64	43.07	54	-10.93	AVG
	6				0	
emark:	- 61	8			- 61	8
actor = Anter	na Factor + Cable	Loss – Pre-	-amplifier.			- 6

EUT	Soundcore Mini 3	Model Name	A3119
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	47.87	0.22	48.09	74	-25.91	peak
4960.000	38.19	0.22	38.41	54	-15.59	AVG
7440.000	50.3	2.64	52.94	74	-21.06	peak
7440.000	40.66	2.64	43.3	54	-10.7	AVG
		(2)		G	- 61	8
					0	G

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

RESULT: PASS

Note: Other emissions are attenuated more than 20 dB below the permissible value.

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

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

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

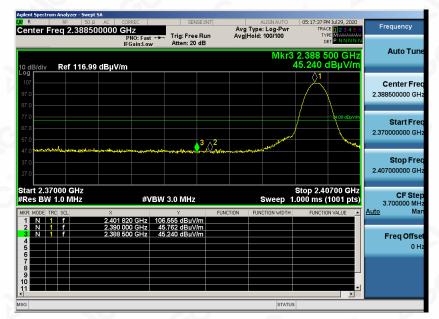
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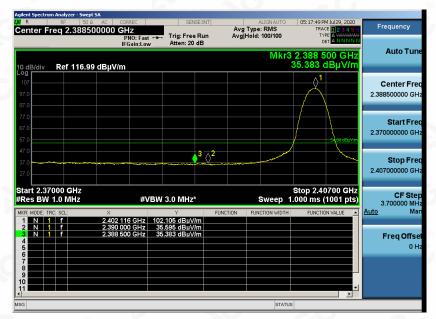
EUT	Soundcore Mini 3	Model Name	A3119		
Temperature	25°C	Relative Humidity	55.4%		
Pressure	960hPa	Test Voltage	Normal Voltage		
Test Mode	Mode 1	Antenna	Horizontal		

TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

ΡK







RESULT: PASS

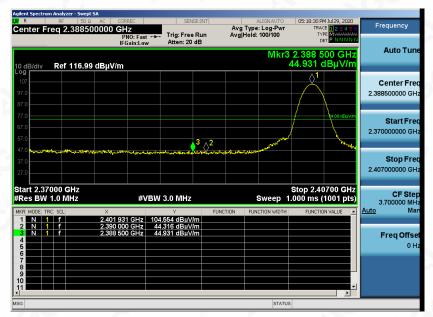
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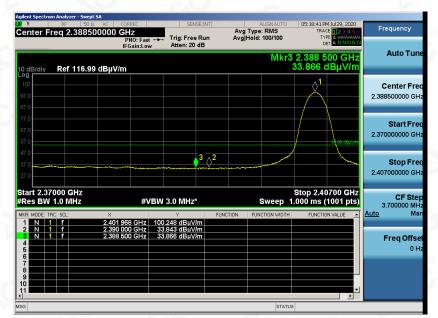
Report No.: AGC01110200706FE03 Page 50 of 63

EUT	Soundcore Mini 3	Model Name	A3119
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

PK



AV



RESULT: PASS

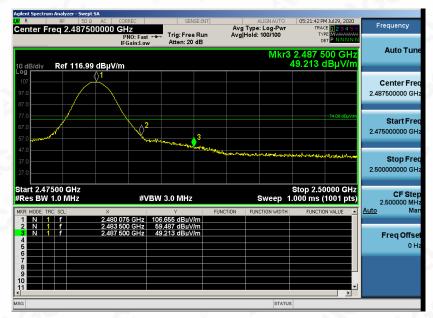
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Report No.: AGC01110200706FE03 Page 51 of 63

EUT	Soundcore Mini 3	Model Name	A3119
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

PK



AV



RESULT: PASS

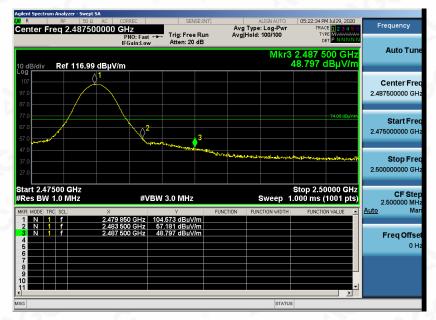
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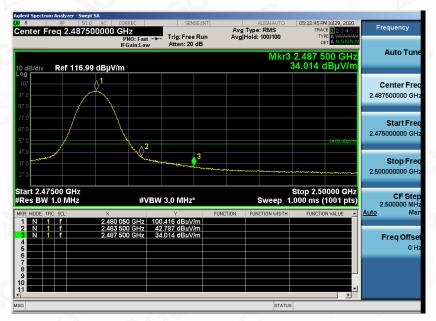
Report No.: AGC01110200706FE03 Page 52 of 63

EUT	Soundcore Mini 3	Model Name	A3119
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

PK



AV



RESULT: PASS

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. The GFSK modulation is the worst case and recorded in the report.

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11. NUMBER OF HOPPING FREQUENCY

11.1. MEASUREMENT PROCEDURE

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

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

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

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

4. Allow the trace to stabilize.

11.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

11.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

11.4. LIMITS AND MEASUREMENT RESULT

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

Frequency 2.441750000 GH Avg Type: Log-Pwi Avg|Hold: 100/100 Trig: Free Run Atten: 30 dB Auto Tun Ref 20.00 dBm Center Fre 2.441750000 GH Start Fre 2.40000000 GH Stop Fre 2.483500000 GH **CF** Ste 8 350000 N ۹uto Freq Offse Start 2.40000 GHz #Res BW 300 kHz Stop 2.48350 GHz Sweep 1.000 ms (1001 pts) #VBW 1.0 MHz

TEST PLOT FOR NO. OF TOTAL CHANNELS

Note: The GFSK modulation is the worst case and recorded in the report.

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12. TIME OF OCCUPANCY (DWELL TIME)

12.1. MEASUREMENT PROCEDURE

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

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

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

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

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

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

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

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

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

12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

12.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

12.4. LIMITS AND MEASUREMENT RESULT

Channel	Time of Pulse for DH5 (ms)	Number of hops in the period specified in the requirements	Dwell Time (ms)	Limit (ms)	
Low	2.867	27*4	309.636	400	
Middle	2.867	27*4	309.636	400	
High	2.895	27*4	312.660	400	

Note: The GFSK modulation is the worst case and recorded in the report.

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05:35:06 PM Jul 29, 2020 Trig Delay-2.000 ms Trig: Video Atten: 30 dB Frequency Avg Type: Log-Pwr Center Freg 2.402000000 GHz PNO: Fast IEGain:Low Auto Tune Mkr1 2.389 ms 6.94 dBm 0 dB/div Ref 20.00 dBm **Center Fred** 2.402000000 GHz -3.00 dB 2.867 ms Start Free 2.402000000 GH Stop Free 2.402000000 GHz CF Step 1.000000 MHz <u>Auto</u> Mar and the latter Freq Offse 0 H Center 2.402000000 GHz Span 0 Hz Sweep 8.000 ms (30000 pts) #VBW 3.0 MHz Res BW 1.0 MHz Points changed; all traces cleared STATUS ept SA 05:35:16 PM Jul 29, 2020 Frequency Center Freq 2.402000000 GHz Avg Type: Log-Pwr IRACE 🖡 Trig: Free Run Atten: 30 dB TYP PNO: Fast IFGain:Low Auto Tune 0 dB/div Ref 20.00 dBm **Center Fred** 2.402000000 GH Start Free 2.402000000 GH: Stop Fred 2.402000000 GHz **CF** Step 1.000000 MH Mar <u>Auto</u> **Freq Offse** 0 H Center 2.402000000 GHz Res BW 1.0 MHz Span 0 Hz Sweep 7.902 s (30000 pts) #VBW 3.0 MHz

TEST PLOT OF LOW CHANNEL

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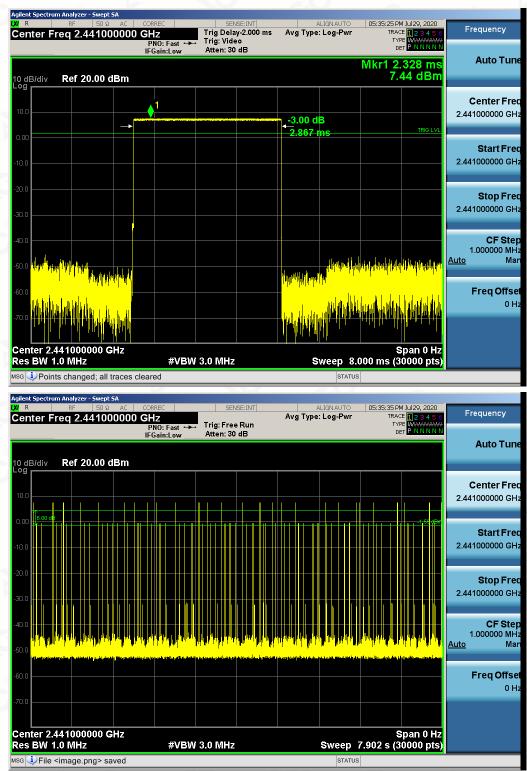
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TEST PLOT OF MIDDLE CHANNEL

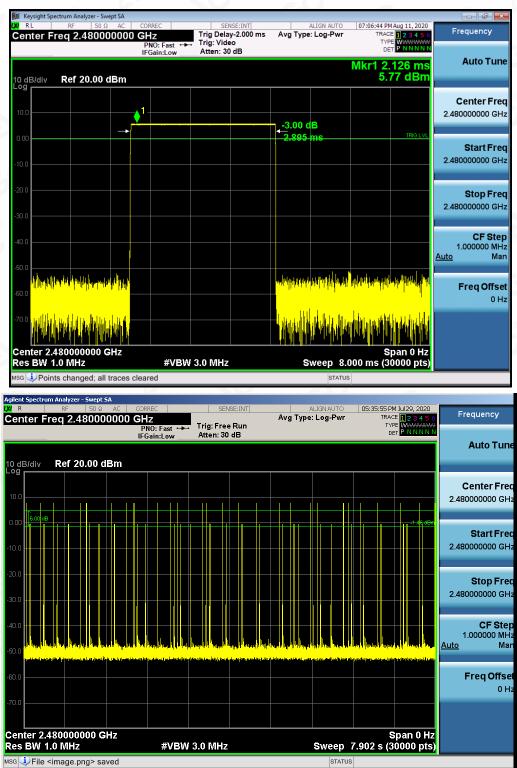
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TEST PLOT OF HIGH CHANNEL

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13. FREQUENCY SEPARATION

13.1. MEASUREMENT PROCEDURE

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

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

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

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

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

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

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

13.4. LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION KHz	LIMIT (KHz)	RESULT	
CH01-CH02	1.000	>=25 KHz or 2/3 20 dB BW	PASS	

TEST PLOT FOR FREQUENCY SEPARATION



Note: The GFSK modulation is the worst case and recorded in the report.

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14. FCC LINE CONDUCTED EMISSION TEST

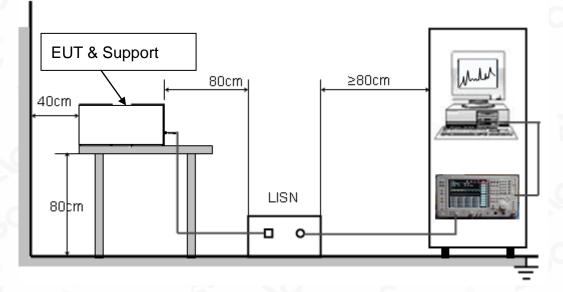
14.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

Note: 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

14.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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14.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by adapter which received AC120V/60Hz power by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

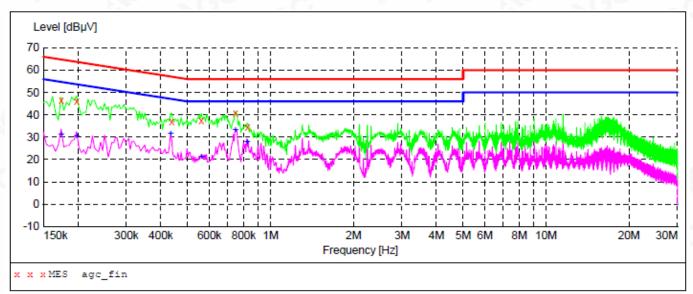
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

14.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

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

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14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L1

MEASUREMENT RESULT: "agc_fin"

2020/7/8 0:02 Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.174000	46.40	9.3	65	18.4	QP	L	FLO
0.198000	45.90	9.3	64	17.8	QP	L	FLO
0.438000	36.90	9.3	57	20.2	QP	L	FLO
0.562000	37.40	9.3	56	18.6	QP	L	FLO
0.746000	40.50	9.3	56	15.5	QP	L	FLO
0.826000	34.50	9.3	56	21.5	QP	L	FLO

MEASUREMENT RESULT: "agc fin2"

2020/7/8 0:02 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.174000	31.00	9.3	55	23.8	AV	L	FLO
0.198000	30.40	9.3	54	23.3	AV	L	FLO
0.434000	31.40	9.3	47	15.8	AV	L	FLO
0.562000	21.20	9.3	46	24.8	AV	L	FLO
0.746000	33.20	9.3	46	12.8	AV	L	FLO
0.822000	27.90	9.3	46	18.1	AV	L	FLO

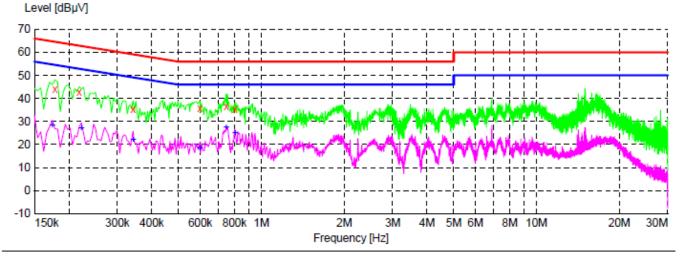
RESULT: PASS

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Report No.: AGC01110200706FE03 Page 62 of 63

LINE CONDUCTED EMISSION TEST-N



x x x MES agc_fin

MEASUREMENT RESULT: "agc fin"

2020/7/7 Freque				Margin dB	Detector	Line	PE
0.178	000 44.0	9.3	65	20.6	QP	N	FLO
0.218	000 42.9	90 9.3	63	20.0	QP	N	FLO
0.342	000 35.3	30 9.3	59	23.9	QP	N	FLO
0.598	000 35.8	30 9.3	56	20.2	QP	N	FLO
0.746	000 36.5	50 9.3	56	19.5	QP	N	FLO
0.802	000 35.4	40 9.3	56	20.6	QP	N	FLO

MEASUREMENT RESULT: "agc fin2"

2	020/7/7 23: Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
	0.174000	28.20	9.3	55	26.6	AV	N	FLO
	0.222000	27.10	9.3	53	25.6	AV	N	FLO
	0.342000	22.00	9.3	49	27.2	AV	N	FLO
	0.598000	18.30	9.3	46	27.7	AV	N	FLO
	0.746000	27.50	9.3	46	18.5	AV	N	FLO
	0.802000	24.80	9.3	46	21.2	AV	N	FLO

RESULT: PASS

Note: All the test modes had been tested, the mode 2 was the worst case. Only the data of the worst case would be record in this test report.

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Report No.: AGC01110200706FE03 Page 63 of 63

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC01110200706AP01

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC01110200706AP01

----END OF REPORT----

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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.

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