

FCC Test Report

Report No.: AGC01110200927FE02

FCC ID	© .	2AOKB-A3931R
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Wireless Headphone
BRAND NAME	:	Soundcore
MODEL NAME	÷	A3931R, A3935R
APPLICANT		Anker Innovations Limited
DATE OF ISSUE	0	Sep. 16, 2020
STANDARD(S)	:	FCC Part 15.247
REPORT VERSION	:	V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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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



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REPORT REVISE RECORD

	Report Version	Revise Time	Issued Date	Valid Version	Notes
,	V1.0		Sep. 16, 2020	Valid	Initial Release

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1. VERIFICATION OF COMPLIANCE

Anker Innovations Limited	
Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong	
Anker Innovations Limited	
Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong	
Cosonic Intelligent Technology Co., Ltd.	
No.06, Ximiaobianwang Section, Dongyuan Avenue, Shipai Town, Dongguan City, Guangdong Province, P.R. China	
Wireless Headphone	
Soundcore	
A3931R	
A3935R	
All the same except for the model name.	
Sep. 09, 2020 to Sep. 16, 2020	
No any deviation from the test method	
Normal	
Pass	
AGCRT-US-BLE/RF	

We hereby certify that:

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

Prepared By

John Zerry

John Zeng (Project Engineer)

Sep. 16, 2020

Reviewed By

Max Zhang

Max Zhank

Max Zhang (Reviewer)

Sep. 16, 2020

Approved By

Forrest Lei (Authorized Officer)

Sep. 16, 2020

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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/



2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a "Wireless Headphone". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz	
RF Output Power	0.507dBm (Max)	
Bluetooth Version	V5.0	
Modulation	BR □GFSK, EDR □π /4-DQPSK, □8DPSK BLE ⊠GFSK 1Mbps □GFSK 2Mbps	
Number of channels	40 Channel	
Antenna Designation	LDS Antenna (Comply with requirements of the FCC part 15.203)	
Antenna Gain	0dBi	
Hardware Version	A3931_MAIN_R_D	
Software Version	A3931_BQB_20200910	
Power Supply	DC 3.7V by battery	

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	0	2402 MHz
	1	2404 MHz
2400~2483.5MHz		
	38	2478 MHz
	39	2480 MHz

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

This submittal(s) (test report) is intended for FCC ID: 2AOKB-A3931R filing to comply with the FCC Part 15.247 requirements.

2.4. TEST METHODOLOGY

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

2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7. ANTENNA REQUIREMENT

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

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y $\pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

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

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4. DESCRIPTION OF TEST MODES

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

Note:

- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

Software Setting Non Signaling Test Tool File Device evices SIGTEST NOSIGTEST VCO TEST BLE TX TEST SETTING Address ort ID Address Typ Stat Transmitter Test COM3 0xEEEEEEEEE DUT IDLE UNDEEL Private 2480**E**Hz Transmit Frequency Payload Pattern 0:prbs9 Payload Size 3 Send aces Local Device Traces Reciever Test |<-[09:40:08:699] DUT : CMD_CMPL_EVT(RESET(SUCCESS))</pre> Receive Frequency 2402**E**Hz Send Reset --[09:40:09:469] DUT : CMD(RESET)-> <-[09:40:09:590] DUT : CMD_CMPL_EVT(RESET(SU End Test --[09:40:10:471] DUT : CMD (RESET)--<-[09:40:10:581] DUT : CMD (RESET)EVT (RESET (SUCCESS))---[09:40:12:466] DUT : CMD (LE TX, TEST)-> <-[09:40:12:466] DUT : CMD_CMFL_EVT (LE_TX_TEST (SUCCESS))-🗹 Filter Sco 🗌 Show raw data Clear

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:

EUT

Conducted Emission Configure:

		1.44
EUT	AE	

5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Wireless Headphone	A3931R	2AOKB-A3931R	EUT
2	Control Box	N/A	USB-TTL	AE

5.3. SUMMARY OF TEST RESULTS

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

Note: The EUT cannot 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. 12, 2019	Dec. 11, 2020
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 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	Oct. 25, 2019	Oct. 26, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 16, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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7. PEAK OUTPUT POWER

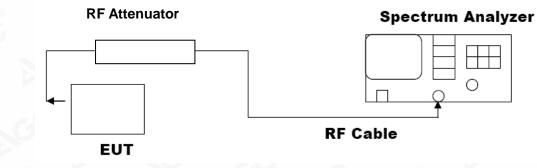
7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW≥DTS bandwidth
- 3. VBW≥3*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

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

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



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7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION				
Frequency (GHz)Peak Power (dBm)Applicable Limits (dBm)Pass or Fail				
2.402	0.507	30	Pass	
2.440	-1.732	30	Pass	
2.480	-1.340	30	Pass	

CH0

📜 Keysight Spectrum Analyzer - Swept SA					
RL RF 50 Ω AC Center Freq 2.402000000 C C C C	CORREC GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	02:34:38 PM Sep 15, 2020 TRACE 1 2 3 4 5 6	Frequency
10 dB/div Ref 20.00 dBm	PNO: Fast ↔ IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Hold:>100/100	2.402 180 GHz 0.507 dBm	Auto Tune
10.0		1			Center Freq 2.402000000 GHz
-10.0					Start Fred 2.399500000 GHz
-20.0					Stop Fred 2.404500000 GHz
-40.0					CF Step 500.000 kHz <u>Auto</u> Mar
-60.0					Freq Offse 0 Ha
-700 Center 2.402000 GHz #Res BW 1.5 MHz	#VBW :	5.0 MHz	Sweep 1	Span 5.000 MHz .000 ms (1001 pts)	
MSG			STATUS		

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CH19

CH39

📕 Keysight Spectrum Analyzer - Swept SA					l d l
²² RL RF 50 Ω AC Center Freq 2.48000000	CORREC	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	02:42:34 PM Sep 15, 2020 TRACE 1 2 3 4 5 6	Frequency
10 dB/div Ref 20.00 dBm	PNO: Fast ↔ IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Hold: 100/100	2.480 200 GHz -1.340 dBm	Auto Tun
- og		. 1			Center Fre 2.480000000 GH
0.00					Start Fre 2.477500000 GF
20.0					Stop Fr 2.482500000 G
40.0					CF Ste 500.000 ki <u>Auto</u> M
60.0					Freq Offs 01
70.0 Center 2.480000 GHz				Span 5.000 MHz	
#Res BW 1.5 MHz	#VBW	5.0 MHz	Sweep 1	.000 ms (1001 pts)	
00			STATU		

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8.6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW \ge 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

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

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

The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT					
Appliachte Limite	Applicable Limits				
Applicable Limits	Test Data	Criteria			
	Low Channel	691.6	PASS		
>500KHZ	Middle Channel	694.9	PASS		
	High Channel	697.1	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.
- 3. Set SPA Trace 1 Max hold, then View.

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

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

The same as described in section 7.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT				
Applicable Limite	Measurement Result			
Applicable Limits	Test Data	Criteria		
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS		

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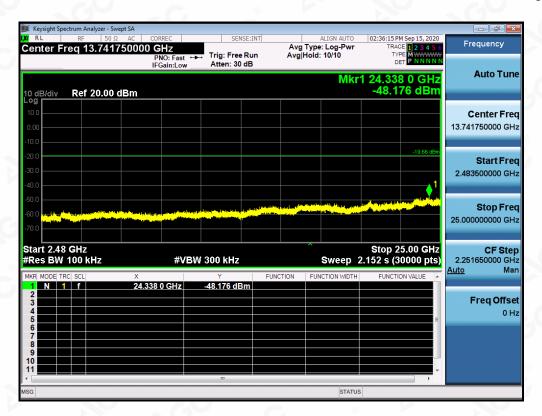


TEST RESULT FOR ENTIRE FREQUENCY RANGE GFSK MODULATION IN LOW CHANNEL

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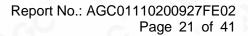
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 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com

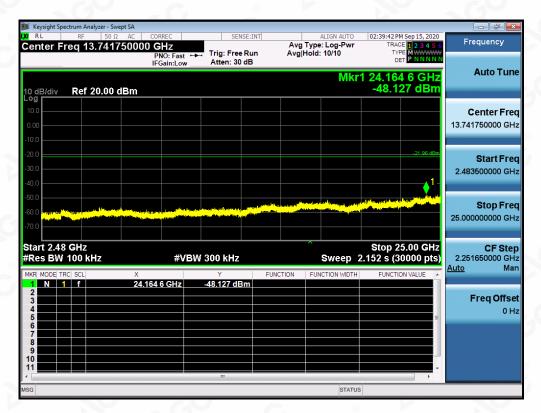


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Keysight Spectrum Analyzer - S RL RF 50		OFNOT-TH		02-20-00 PM C++ 15, 2020																															
Center Freq 2.4400		SENSE:IN	T ALIGN AUTO Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency																														
	PNO: Wide •	📕 Trig: Free Run		TYPE MWWWWW DET P N N N N																															
	IFGain:Low	Atten: 30 dB		-	Auto Tune																														
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10 dB/div Ref 20.00	dBm			-1.960 dBm																															
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Center Freg 1.2150	Ω AC CORREC	SENSE:IN	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency																														
	Ω AC CORREC 000000 GHz PNO: Fast •	Trig: Free Run	Avg Type: Log-Pwr																																
	Ω AC CORREC	THE FUE	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 123456 TYPE MWWWW DET PNNNN																															
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Center Freq 1.2150	Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 123456 TYPE MWWWW DET PNNNN	Frequency																														
Center Freq 1.2150	Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 1 2 3 4 5 6 TYPE MWWWW DET PNNNN r1 2.232 20 GHz	Frequency Auto Tune																														
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Center Freq 1.2150	Ω AC CORREC 0000000 GHz PNO: Fast IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	r1 2.232 20 GHz -57.613 dBm	Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH:																														
Center Freq 1.2150 10 dB/div Ref 20.00 10.0	Ω AC CORREC D00000 GHZ PNO: Fast • IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 10/10	r1 2.232 20 GHz -57.613 dBm	Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free																														
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Center Freq 1.2150	Ω AC CORREC D00000 GHZ PNO: Fast • IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 10/10	r1 2.232 20 GHz -57.613 dBm	Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free																														
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Center Freq 1.2150	Ω AC CORREC 100000 GHz PRO: Fast IFGain:Low IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE [] 23 4 5 6 TYPE MWWWW PT PWWWWW r1 2.232 20 GHz -57.613 dBm -21.96 dBm -21.96 dBm	Frequency Auto Tune Center Freq 1.21500000 GH: Start Freq 30.00000 MH: Stop Freq 2.40000000 GH: CF Step 237.00000 MH:																														
Center Freq 1.2150	Ω AC CORREC 100000 GHz PRO: Fast IFGain:Low IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 2:3 4 5 6 TYPE 2:3 4 5 6 TYPE 1:3	Frequency Auto Tune Center Freq 1.21500000 GH: Start Freq 30.00000 MH: Stop Freq 2.40000000 GH: CF Step 237.00000 MH:																														
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Center Freq 1.2150 Io Ref 20.00 Io Io Io Io Io <tr io<<="" td=""><td>Ω AC CORREC J00000 GHz PRO: Fast PO: Fast IFGain:Low</td><td>Trig: Free Run Atten: 30 dB</td><td>Avg Type: Log-Pwr Avg Hold: 10/10 Mk</td><td>TRACE 2:3 4 5 6 TYPE 2:3 4 5 6 TYPE 1:3 4 5 6 TTP 1:1 2:232 20 GHz -57.613 dBm -21.98 dBm 1 -21.98 dBm 1 -21.98 dBm 5 5 5 5 5 5 5 5 5 5 5 5 5</td><td>Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH: Auto Mar Freq Offse</td></tr> <tr><td>Center Freq 1.2150 10 Ref 20.00 00 000 000 000 -20.0 </td><td>Ω AC CORREC J00000 GHz PRO: Fast PO: Fast IFGain:Low</td><td>Trig: Free Run Atten: 30 dB</td><td>Avg Type: Log-Pwr Avg Hold: 10/10 Mk</td><td>TRACE 23 45 65 TYPE 444 444 PET 12.232 20 GHz -57.613 dBm -21.98.6Bm -21.98.</td><td>Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH: Auto Mar Freq Offse</td></tr> <tr><td>Center Freq 1.2150 10 dB/div Ref 20.00 10 dB/div 10 dB/div</td><td>Ω AC CORREC J00000 GHz PRO: Fast PO: Fast IFGain:Low</td><td>Trig: Free Run Atten: 30 dB</td><td>Avg Type: Log-Pwr Avg Hold: 10/10 Mk</td><td>TRACE 23 45 65 TYPE 444 444 PET 12.232 20 GHz -57.613 dBm -21.98.6Bm -21.98.</td><td>Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH: Auto Mar Freq Offse</td></tr> <tr><td>Center Freq 1.2150 Io Ref 20.00 Io Io Io Io</td><td>Ω AC CORREC J00000 GHz PRO: Fast PO: Fast IFGain:Low</td><td>Trig: Free Run Atten: 30 dB</td><td>Avg Type: Log-Pwr Avg Hold: 10/10 Mk</td><td>TRACE 23 45 65 TYPE 444 444 PET 12.232 20 GHz -57.613 dBm -21.98.6Bm -21.98.</td><td>Frequency Auto Tune Center Frec 1.215000000 GH: Start Frec 30.000000 MH: Stop Frec 2.400000000 GH: Auto Mar Freq Offset</td></tr> <tr><td>Center Freq 1.2150 10 dB/div Ref 20.00 11 dB/div Ref 20.00 11 dB/div Ref 20.00</td><td>Ω AC CORREC J00000 GHz PRO: Fast PO: Fast IFGain:Low</td><td>Trig: Free Run Atten: 30 dB</td><td>Avg Type: Log-Pwr Avg Hold: 10/10 Mk</td><td>TRACE 23 45 65 TYPE 444 444 PET 12.232 20 GHz -57.613 dBm -21.98.6Bm -21.98.</td><td>Frequency Auto Tune Center Freq 1.215000000 GH2 Start Freq 30.000000 MH2 Stop Freq 2.400000000 GH2 CF Step 237.000000 MH2</td></tr> <tr><td>Center Freq 1.2150 Io Ref 20.00 Io Io Io Io</td><td>Ω AC CORREC J00000 GHz PRO: Fast PO: Fast IFGain:Low</td><td>Trig: Free Run Atten: 30 dB</td><td>Avg Type: Log-Pwr Avg Hold: 10/10 Mk</td><td>TRACE 23 45 65 TYPE ******* PET ******* r1 2.232 20 GHz -57.613 dBm -21.98.68m -21.98.7</td><td>Frequency Auto Tune Center Frec 1.215000000 GH: Start Frec 30.000000 MH: Stop Frec 2.400000000 GH: Auto Mar Freq Offset</td></tr>	Ω AC CORREC J00000 GHz PRO: Fast PO: Fast IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 10/10 Mk	TRACE 2:3 4 5 6 TYPE 2:3 4 5 6 TYPE 1:3 4 5 6 TTP 1:1 2:232 20 GHz -57.613 dBm -21.98 dBm 1 -21.98 dBm 1 -21.98 dBm 5 5 5 5 5 5 5 5 5 5 5 5 5	Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH: Auto Mar Freq Offse	Center Freq 1.2150 10 Ref 20.00 00 000 000 000 -20.0	Ω AC CORREC J00000 GHz PRO: Fast PO: Fast IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 10/10 Mk	TRACE 23 45 65 TYPE 444 444 PET 12.232 20 GHz -57.613 dBm -21.98.6Bm -21.98.	Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH: Auto Mar Freq Offse	Center Freq 1.2150 10 dB/div Ref 20.00 10 dB/div 10 dB/div	Ω AC CORREC J00000 GHz PRO: Fast PO: Fast IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 10/10 Mk	TRACE 23 45 65 TYPE 444 444 PET 12.232 20 GHz -57.613 dBm -21.98.6Bm -21.98.	Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH: Auto Mar Freq Offse	Center Freq 1.2150 Io Ref 20.00 Io Io Io Io	Ω AC CORREC J00000 GHz PRO: Fast PO: Fast IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 10/10 Mk	TRACE 23 45 65 TYPE 444 444 PET 12.232 20 GHz -57.613 dBm -21.98.6Bm -21.98.	Frequency Auto Tune Center Frec 1.215000000 GH: Start Frec 30.000000 MH: Stop Frec 2.400000000 GH: Auto Mar Freq Offset	Center Freq 1.2150 10 dB/div Ref 20.00 11 dB/div Ref 20.00 11 dB/div Ref 20.00	Ω AC CORREC J00000 GHz PRO: Fast PO: Fast IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 10/10 Mk	TRACE 23 45 65 TYPE 444 444 PET 12.232 20 GHz -57.613 dBm -21.98.6Bm -21.98.	Frequency Auto Tune Center Freq 1.215000000 GH2 Start Freq 30.000000 MH2 Stop Freq 2.400000000 GH2 CF Step 237.000000 MH2	Center Freq 1.2150 Io Ref 20.00 Io Io Io Io	Ω AC CORREC J00000 GHz PRO: Fast PO: Fast IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 10/10 Mk	TRACE 23 45 65 TYPE ******* PET ******* r1 2.232 20 GHz -57.613 dBm -21.98.68m -21.98.7	Frequency Auto Tune Center Frec 1.215000000 GH: Start Frec 30.000000 MH: Stop Frec 2.400000000 GH: Auto Mar Freq Offset
Ω AC CORREC J00000 GHz PRO: Fast PO: Fast IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 10/10 Mk	TRACE 2:3 4 5 6 TYPE 2:3 4 5 6 TYPE 1:3 4 5 6 TTP 1:1 2:232 20 GHz -57.613 dBm -21.98 dBm 1 -21.98 dBm 1 -21.98 dBm 5 5 5 5 5 5 5 5 5 5 5 5 5	Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH: Auto Mar Freq Offse																															
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 Attestation of Global Compliance(Shenzhen)Co., Ltd

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



Keysight Spectrum Analyzer - S		SENSE:INT	ALIGN AUTO	02:43:37 PM Sep 15, 2020	
Center Freq 2.4800	000000 GHz		Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
	PNO: Wide ↔ IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Hold: 10/10	DET P NNNN	
			Mkr1 2	.479 998 6 GHz	Auto Tune
10 dB/div Ref 20.00) dBm			-1.707 dBm	
Log					
10.0		1			Center Free
0.00			~		2.480000000 GH:
-10.0					
-20.0					Start Free
-30.0					2.478500000 GH
-40.0					
-50.0					Stop Free
-60.0					2.481500000 GH
-70.0					
Center 2.480000 GH	7			Span 3.000 MHz	CF Step
#Res BW 100 kHz		N 300 kHz	Sweep 2.0	000 ms (30000 pts)	300.000 kH
MKR MODE TRC SCL	Х	Y	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Mar
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MSG			STATUS	• • •	
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🔰 Keysight Spectrum Analyzer - S 🚺 RL RF 50	Ω AC CORREC	SENSE:INT	ALIGN AUTO	02:43:47 PM Sep 15, 2020	Frequency
🚺 Keysight Spectrum Analyzer - S	Ω AC CORREC	Trig: Free Run		02:43:47 PM Sep 15, 2020 TRACE 1 2 3 4 5 6	Frequency
🔰 Keysight Spectrum Analyzer - S 🚺 RL RF 50	Ω AC CORREC	T-1	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:43:47 PM Sep 15, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET PNNNN	Frequency
Kysight Spectrum Analyzer - S KN RL RF 50 Center Freq 1.215(Ω AC CORREC 0000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:43:47 PM Sep 15, 2020 TRACE 2 3 4 5 6 TYPE WWWWWW DET P NNNNN 1 2.338 93 GHz	Frequency
Keysight Spectrum Analyzer - 3 RL RF 50 Center Freq 1.215(10 dB/div. Ref 20.00	Ω AC CORREC 0000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:43:47 PM Sep 15, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET PNNNN	Frequency
Kysight Spectrum Analyzer - S KN RL RF 50 Center Freq 1.215(Ω AC CORREC 0000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:43:47 PM Sep 15, 2020 TRACE 2 3 4 5 6 TYPE WWWWWW DET P NNNNN 1 2.338 93 GHz	Frequency Auto Tune
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Keysight Spectrum Analyzer - 3 R RL RF 50 Center Freq 1.2150 10 dB/div Ref 20.00 00	Ω AC CORREC 0000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:43:47 PM Sep 15, 2020 TRACE 1, 23 4, 5 6 TYPE MWWWW DET PNNHN N 1 2.338 93 GHz -57.533 dBm	Frequency Auto Tune Center Free 1.215000000 GH3 Start Free
Keysight Spectrum Analyzer - 3 RL RF 50 Center Freq 1.2150 10 dB/div Ref 20.00 00	Ω AC CORREC 0000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:43:47 PM Sep 15, 2020 TRACE 1, 23 4, 5 6 TYPE MWWWW DET PNNHN N 1 2.338 93 GHz -57.533 dBm	Frequency Auto Tune Center Free 1.215000000 GH3 Start Free
Keysight Spectrum Analyzer - 3 RL RF 50 Center Freq 1.2150 10 dB/div Ref 20.00 0 og 0 0 10 og 0 0 0 20 og 0 0 0 0 -10 o -20 o	Ω AC CORREC 0000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	02:43:47 PM Sep 15, 2020 TRACE 1, 23 4, 5 6 TYPE MWWWW DET PNNHN N 1 2.338 93 GHz -57.533 dBm	Frequency Auto Tune Center Free 1.215000000 GH Start Free 30.000000 MH
Keysight Spectrum Analyzer - 3 RL RF 50 Center Freq 1.2150 10 dB/div Ref 20.00 000	Ω AC CORREC 0000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	02:43:47 PM Sep 15, 2020 TRACE 1, 23 4, 5 6 TYPE MWWWW DET PNNHN N 1 2.338 93 GHz -57.533 dBm	Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free
Keysight Spectrum Analyzer - 3 RL RF 50 Center Freq 1.2150 10 dB/div Ref 20.00 10 dB/div Ref 20.00	Ω AC CORREC 0000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	02:43:47 PM Sep 15, 2020 TRACE 1, 23 4, 5 6 TYPE MWWWW DET PNNHN N 1 2.338 93 GHz -57.533 dBm	Frequency Auto Tune Center Free 1.215000000 GH Start Free 30.000000 MH Stop Free
Keysight Spectrum Analyzer - 3 RL RF 50 Center Freq 1.215(10 dB/div Ref 20.00 10 o 0.00 -10 o 0.00 -20 o	Ω AC CORREC 0000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	02:43:47 PM Sep 15,2020 TRACE 1, 23 4 5 6 TYPE MANNAN 1 2.338 93 GHz -57.533 dBm -21.71 dBe -21.71 dBe	Frequency Auto Tune Center Free 1.215000000 GH Start Free 30.000000 MH Stop Free 2.400000000 GH
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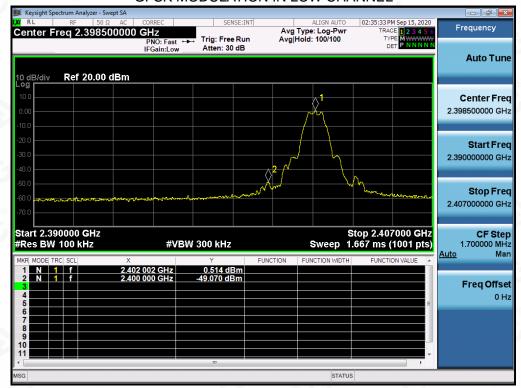


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10.0 0.00							Center Freq 13.750000000 GHz
-20.0 -30.0 -40.0						-21.71 dBm	Start Freq 2.500000000 GHz
-50.0 -60.0 -70.0							Stop Freq 25.000000000 GHz
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MSG					STATU	3	

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

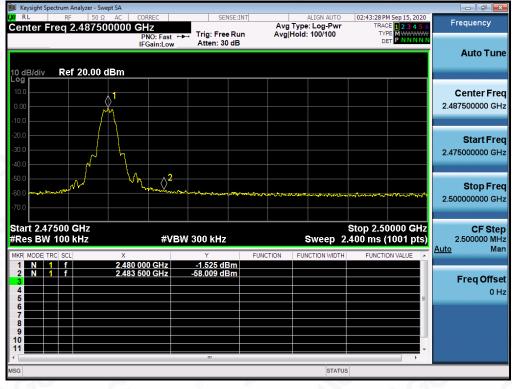
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TEST RESULT FOR BAND EDGE GFSK MODULATION IN LOW CHANNEL

GFSK MODULATION IN HIGH CHANNEL



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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1. MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set the SPA Trace 1 Max hold, then View.

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

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

Refer to Section 7.2.

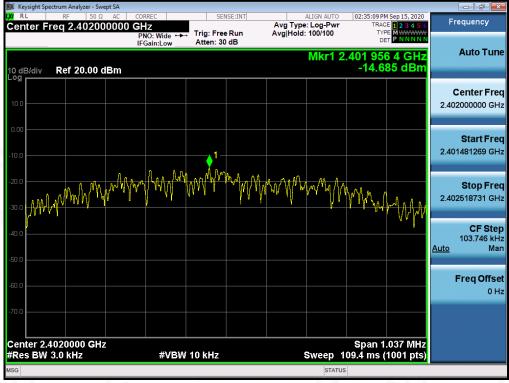
10.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

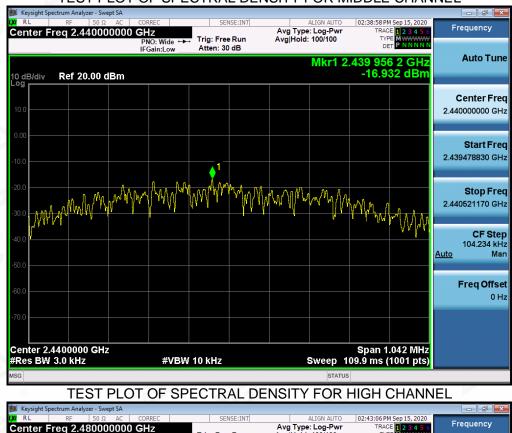
10.4. LIMITS AND MEASUREMENT RESULT

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-14.685	8	Pass
Middle Channel	-16.932	8	Pass
High Channel	-16.623	8	Pass

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

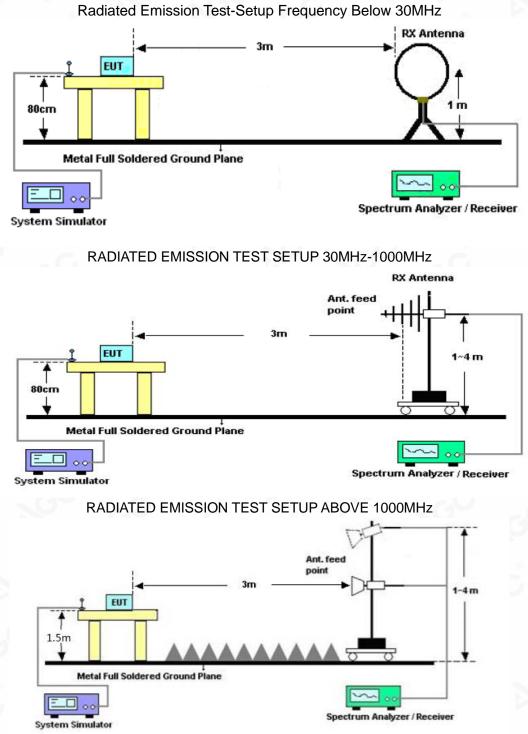
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated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

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11.2. TEST SETUP



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11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

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

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

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHz

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

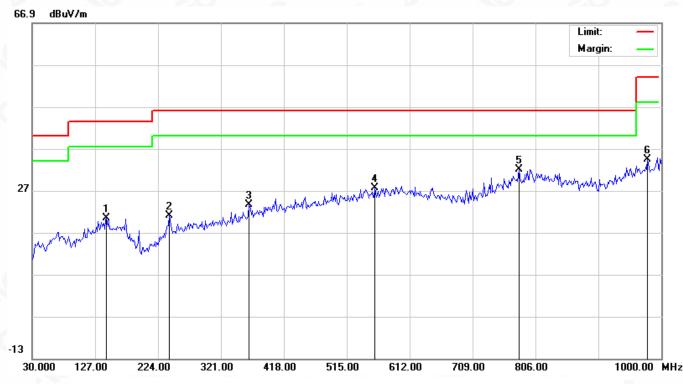
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RADIATED EMISSION BELOW 1GHZ

EUT	Wireless Headphone	Model Name	A3931R
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal



No.	M	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		144.7833	1.18	19.22	20.40	43.50	-23.10	peak
2		241.7833	2.36	18.63	20.99	46.00	-25.01	peak
3		364.6500	1.95	21.74	23.69	46.00	-22.31	peak
4		558.6500	1.54	26.14	27.68	46.00	-18.32	peak
5	*	780.1332	2.61	29.36	31.97	46.00	-14.03	peak
6		978.9833	2.88	31.54	34.42	54.00	-19.58	peak

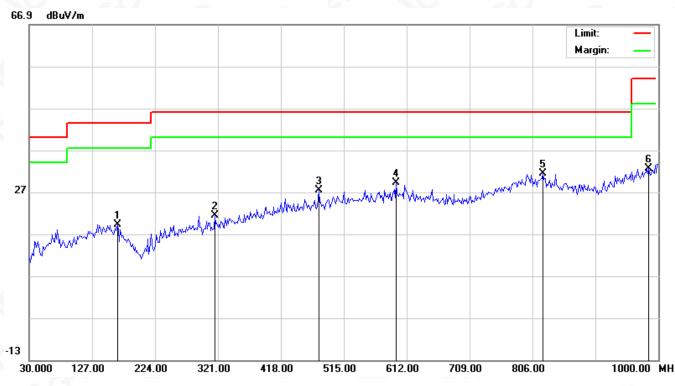
RESULT: PASS

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EUT	Wireless Headphone	Model Name	A3931R
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



No.	Mł	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		165.8000	0.64	18.59	19.23	43.50	-24.27	peak
2		316.1500	1.30	20.04	21.34	46.00	-24.66	peak
3		476.2000	2.97	24.51	27.48	46.00	-18.52	peak
4		595.8333	2.40	26.87	29.27	46.00	-16.73	peak
5	*	822.1667	1.64	29.81	31.45	46.00	-14.55	peak
6		985.4500	0.75	31.85	32.60	54.00	-21.40	peak

RESULT: PASS Note:

- 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- 2. All test modes had been tested. The mode 1 is the worst case and recorded in the report.

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RADIATED EMISSION ABOVE 1GHZ

EUT	Wireless Headphone	Model Name	A3931R
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	43.81	0.08	43.89	74	-30.11	peak
4804.000	35.64	0.08	35.72	54	-18.28	AVG
7206.000	39.48	2.21	41.69	74	-32.31	peak
7206.000	31.31	2.21	33.52	54 💿	-20.48	AVG
	0	0		- 60	8	8
emark:		G				- C
ctor = Anter	nna Factor + Cable	Loss - Pre-	amplifier.			U

EUT	Wireless Headphone	Model Name	A3931R
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	44.75	0.08	44.83	74	-29.17	peak
4804.000	34.69	0.08	34.77	54	-19.23	AVG
7206.000	38.18	2.21	40.39	74	-33.61	peak
7206.000	30.53	2.21	32.74	54	-21.26	AVG
					0	G
emark:	6	N				

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

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EUT	Wireless Headphone	Model Name	A3931R
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
4880.000	44.54	0.14	44.68	74	-29.32	peak
4880.000	35.91	0.14	36.05	54	-17.95	AVG
7320.000	39.47	2.36	41.83	74	-32.17	peak
7320.000	31.28	2.36	33.64	54	-20.36	AVG
<u>()</u>					2	
emark:	- Ci	0		- 6	- C.	8
ctor = Anter	nna Factor + Cable	Loss – Pre-	amplifier.			

EUT Wireless Headphone Model Name

EUT	Wireless Headphone	Model Name	A3931R
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type	
4880.000	46.15	0.14	46.29	74	-27.71	peak	
4880.000	38.34	0.14	38.48	54	-15.52	AVG	
7320.000	40.97	2.36	43.33	74	-30.67	peak	
7320.000	32.48	2.36 💿	34.84	54	-19.16	AVG	
		C					

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

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EUT	Wireless Headphone	Model Name	A3931R
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
) (MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	44.37	0.22	44.59	74	-29.41	peak
4960.000	35.17	0.22	35.39	54	-18.61	AVG
7440.000	37.93	2.64	40.57	74	-33.43	peak
7440.000	30.05	2.64	32.69	54	-21.31	AVG
0				9		
emark:		0		<u> </u>		8
ctor = Anter	nna Factor + Cable	Loss – Pre-	amplifier.			- 6

EUT	Wireless Headphone	Model Name	A3931R
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4960.000	42.31	0.22	42.53	74	-31.47	peak
4960.000	35.06	0.22	35.28	54	-18.72	AVG
7440.000	38.17	2.64	40.81	74	-33.19	peak
7440.000	28.95	2.64	31.59	54	-22.41	AVG
	N C	®		0	e.C	8
emark:		- 60-				

RESULT: PASS

Note:

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

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

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

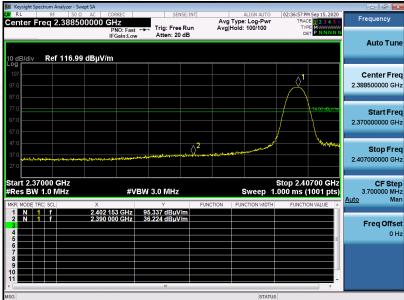
Compliance Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written of the report is not permitten of the report is not permitten of the report is not p /Inspection he test results anthorization of AG presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15d Bf he test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



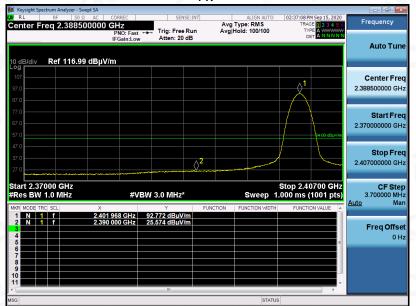
TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS				
EUT	Wireless Headphone	Model Name	A3931R	
Temperature	25° C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	Mode 1	Antenna	Horizontal	
	DI/			

TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

PK



AV



RESULT: PASS

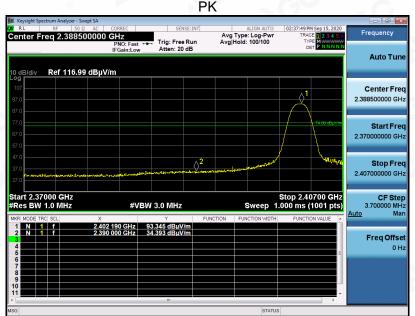
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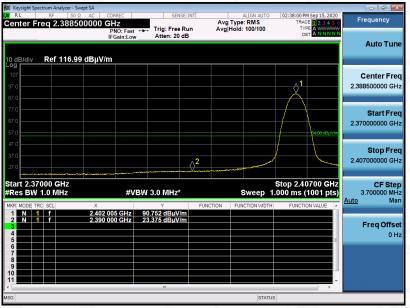


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EUT	Wireless Headphone	Model Name	A3931R
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



AV



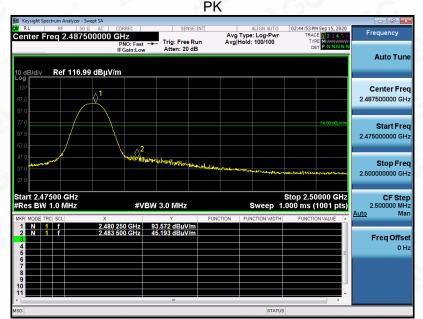
RESULT: PASS

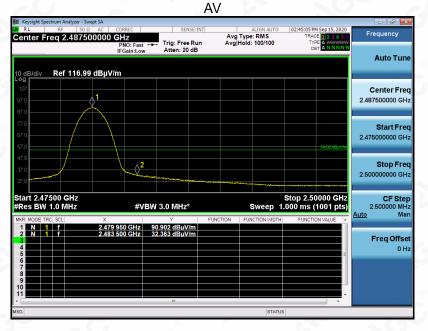
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EUT	Wireless Headphone	Model Name	A3931R
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal
	DI		





RESULT: PASS

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2.475000000 GH

2.50000000 GH

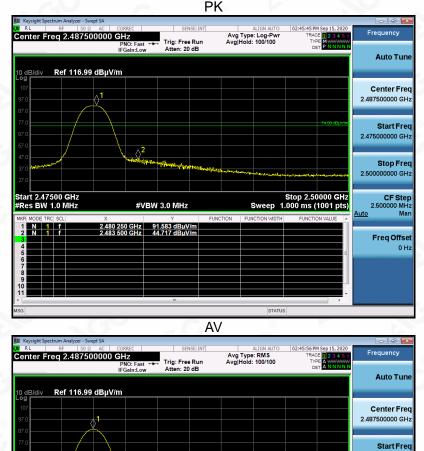
CF S 2.500000

Freq Offset

\uto

Stop Free

EUT	Wireless Headphone	Model Name	A3931R
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical



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

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^<mark>2</mark>

2.479 975 GHz 88.780 dBµV/m 2.483 500 GHz 30.533 dBµV/m

#VBW 3.0 MHz*

art 2.47500 GHz

12. FCC LINE CONDUCTED EMISSION TEST

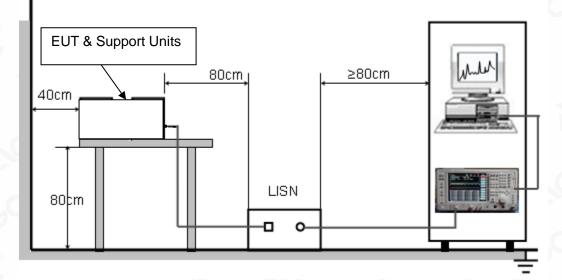
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	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.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

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

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

12.4. 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.

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

Note: The EUT can not use the BT function with charging.

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC01110200927AP01

APPENDIX B: PHOTOGRAPHS OF EUT Refer to the Report No.: AGC01110200927AP01

----END OF REPORT----

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

 Tel: +86-755 2523 4088
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