

FCC Test Report

Report No.: AGC09927210201FE02

| FCC ID | 8 | 2ARGT-N10PLUS |
|---------------------|---|-----------------------------------|
| APPLICATION PURPOSE | : | Original Equipment |
| PRODUCT DESIGNATION | : | ANC TRULY WIRELESS STEREO EARBUDS |
| BRAND NAME | | NUARL |
| MODEL NAME | ÷ | N10 Plus |
| APPLICANT | : | MTI Corporation |
| DATE OF ISSUE | 8 | Mar. 03, 2021 |
| 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 | | Mar. 03, 2021 | Valid | Initial Release |

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1. VERIFICATION OF COMPLIANCE

| Applicant | MTI Corporation | |
|--------------------------|---|--|
| Address | 2-18-7-4F, Keian Bldg., Higashi Ikebukuro, Toshima-Ku, Tokyo, 170-0013, Japan | |
| Manufacturer | MTI Corporation | |
| Address | 2-18-7-4F, Keian Bldg., Higashi Ikebukuro, Toshima-Ku, Tokyo, 170-0013, Japan | |
| Factory | KOON HUNG INTERNATIONAL CO., LTD. | |
| Address | Building 24, No. 84, Zhongnan Middle Road, Shangsha, Chang'an Town, Dongguan City, Guangdong Province, China | |
| Product Designation | ANC TRULY WIRELESS STEREO EARBUDS | |
| Brand Name | NUARL | |
| Test Model | N10 Plus | |
| Date of test | Feb. 24, 2021 to Mar. 03, 2021 | |
| Deviation | No any deviation from the test method | |
| Condition of Test Sample | Normal | |
| Test Result | Pass | |
| Report Template | AGCRT-US-BLE/RF | |

We hereby certify that:

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

Prepared By

we chang

Cool Cheng (Project Engineer)

Max Zhang

Mar. 03, 2021

Reviewed By

Max Zhang (Reviewer)

Mar. 03, 2021

Approved By

oWe

Forrest Lei (Authorized Officer)

Mar. 03, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a "ANC TRULY WIRELESS STEREO EARBUDS". 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 | 4.076dBm (Max) |
| Bluetooth Version | V5.2 |
| Modulation | BR GFSK, EDR π /4-DQPSK, 8DPSK BLE GFSK 1Mbps GFSK 2Mbps |
| Number of channels | 40 Channel |
| Antenna Designation | Bluetooth Chip PCB Substrate Antenna (Comply with requirements of the FCC part 15.203) |
| Antenna Gain | -0.4dBi |
| Hardware Version | 250 |
| Software Version | 20.2 |
| Power Supply | DC 3.8V by battery |
| Note: The EUT comprises I | eft and right channel headsets, both are the same in SCH but different in the PCB |

Layout. The RF output power of each headset had been tested and recorded in the report. For the other test items, the left headset had been tested and recorded in this report as the worst case because of the higher power.

2.2. TABLE OF CARRIER FREQUENCYS

| Frequency Band | Channel Number | Frequency |
|----------------|----------------|-----------|
| a Cine and A | 0 | 2402 MHz |
| | 0 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: 2ARGT-N10PLUS 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

| 🗾 BlueTest3 - Test Command | Mode | - | □ × |
|--|--|---|-----------------------------------|
| Test Commands CW TRANSMIT PACKET RENEWIT PACKET RECEIVE RF TEST STOP ENABLE DUT MODE BLE TEST TX BLE TEST TX BLE TEST TX BLE TEST END | Test Arguments Packet Type Power (0-9) BT Address Hop Channels Packet length (hutor) LT Address (0-7) | 3-DH5 5 00025B00FF01 Specified 5 1021 1 V | Close Help Execute Reset |
| Test Results Save to file Browse f C:\Users\DELL\AppDate\Loca Apps1 firmware version 1 PACKET TRANSHIT successf PACKET TRANSHIT successf PACKET TRANSHIT successf PACKET TRANSHIT successf PACKET TRANSHIT successf Channel frequency = 24411 PACKET TRANSHIT successf Chap reset : successf Chap reset : successf Chap reset : successf Chap reset : successf | LlQTIL/BlueTest3/te 503098610. 11 11 11 11 11 11 11 11 11 1 | Display : © Standard stapplog.txt | C BER |
|] | | | ~ |

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:

EUT

Conducted Emission Configure:

| EUT | AE | |
|-----|----|--|
| | | |
| | | |

5.2. EQUIPMENT USED IN TESTED SYSTEM

| ltem | Equipment | Model No. | ID or Specification | Remark |
|------|--------------------------------------|-----------|---------------------|--------|
| 1 | ANC TRULY WIRELESS STEREO EARBUDS | N10 Plus | 2ARGT-N10PLUS | 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 BT function cannot transmit when charging.

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6. TEST FACILITY

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

TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|--------------------------------------|----------------|----------------------|------------|---------------|---------------|
| TEST RECEIVER | R&S | ESCI | 10096 | May 15, 2020 | May 14, 2021 |
| EXA Signal Analyzer | Aglient | N9010A | MY53470504 | Dec. 07, 2020 | Dec. 06, 2021 |
| 2.4GHz Filter | EM Electronics | 2400-2500MHz | N/A | Mar. 23, 2020 | Mar. 22, 2022 |
| Attenuator | ZHINAN | E-002 | N/A | Sep. 03, 2020 | Sep. 02, 2022 |
| Horn antenna | SCHWARZBECK | BBHA 9170 | #768 | Sep. 21, 2019 | Sep. 20, 2021 |
| Active loop antenna (9K-30MHz) | ZHINAN | ZN30900C | 18051 | May 22, 2020 | May 21, 2022 |
| Double-Ridged Waveguide Horn | ETS LINDGREN | 3117 | 00034609 | May 17, 2019 | May 16, 2021 |
| Broadband Preamplifier | ETS LINDGREN | 3117PA | 00225134 | Sep. 03, 2020 | Sep. 02, 2022 |
| ANTENNA | SCHWARZBECK | VULB9168 | 494 | Jan. 08, 2021 | Jan. 07, 2023 |
| Test software | Tonscend | JS32-RE (Ver.2.5) | N/A | N/A | N/A |

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7. PEAK OUTPUT POWER

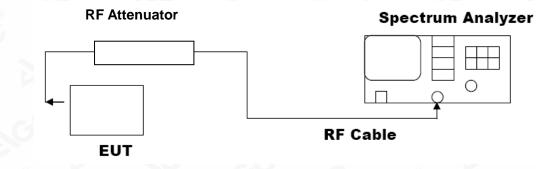
7.1. MEASUREMENT PROCEDURE

For peak power test:

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

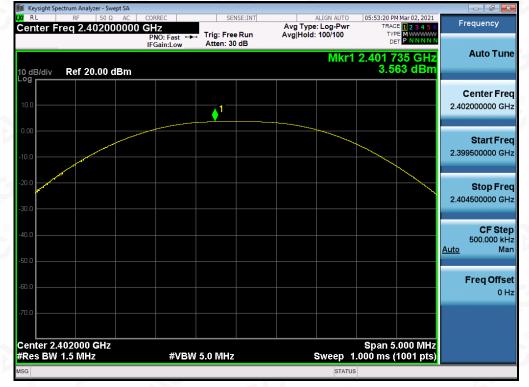


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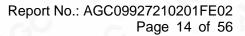
7.3. LIMITS AND MEASUREMENT RESULT Left:

| PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION | | | | | | | |
|---|-------|----|------|--|--|--|--|
| Frequency (GHz)Peak Power (dBm)Applicable Limits (dBm)Pass or Fail | | | | | | | |
| 2.402 | 3.563 | 30 | Pass | | | | |
| 2.440 | 3.666 | 30 | Pass | | | | |
| 2.480 | 4.076 | 30 | Pass | | | | |





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CH19



CH39

| 📁 Keysight Spectrum Analyzer - Swept SA | | | | |
|--|---|--|---|---|
| M RL RF 50 Ω AC Center Freq 2.480000000 | | ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100 | 05:59:19 PM Mar 02, 2021 TRACE 1 2 3 4 5 6 TYPE M WWWWW | Frequency |
| | PNO: Fast + Trig: Free Run IFGain:Low Atten: 30 dB | Avginoid. 100/100 | DET | |
| 10 dB/div Ref 20.00 dBm | | Mkr1 | 2.479 980 GHz 4.076 dBm | Auto Tune |
| 10.0 | 1 | | | Center Freq 2.480000000 GHz |
| -10.0 | | | | Start Freq 2.477500000 GHz |
| -20.0 | | | | Stop Freq 2.482500000 GHz |
| -40.0 | | | | CF Step 500.000 kHz <u>Auto</u> Man |
| -60.0 | | | | Freq Offset 0 Hz |
| Center 2.480000 GHz | | | Span 5.000 MHz | |
| #Res BW 1.5 MHz | #VBW 5.0 MHz | Sweep 1 | .000 ms (1001 pts) | |
| | | STATU | | |

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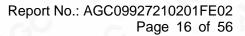
Right:

| PEAK OUTPUT POWER MEASUREMENT RESULT | | | | | | | |
|--------------------------------------|---------------------|----------------------------|--------------|--|--|--|--|
| | FOR GFSK MOUL | DULATION | | | | | |
| Frequency (GHz) | Peak Power (dBm) | Applicable Limits (dBm) | Pass or Fail | | | | |
| 2.402 | 3.240 | 30 | Pass | | | | |
| 2.440 | 3.126 | 30 | Pass | | | | |
| 2.480 | 3.383 | 30 | Pass | | | | |

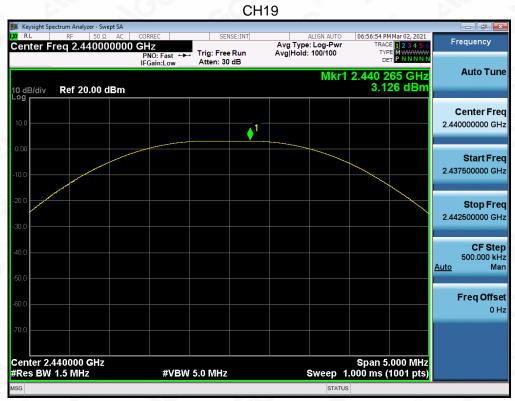


| 📜 Keysight Spectrum Analyzer - Sw 🗶 RL 🛛 RF 50 Ω | | RREC | | SE:INT | ALIGN AUTO | 00000000000 | 4 Mar 02, 2021 | | X |
|---|----------|----------|-----------|--------|------------|---------------------|----------------------------|---------------------------------|------------|
| Center Freq 2.40200 | 00000 GH | | | | : Log-Pwr | TRAC | E 1 2 3 4 5 6 E M WWWWW | Frequency | 1 |
| 10 dB/div Ref 20.00 d | IF | Gain:Low | Atten: 30 | | | 2.401 7 | 15 GHz 40 dBm | Auto T | ʻun |
| 10.0 | | | 1 | | | | | Center 2.402000000 | |
| 10.0 | | | | | | | | Start F 2.399500000 | |
| 20.0 | | | | | | | | Stop F 2.404500000 | |
| 40.0 | | | | | | | | CF \$ 500.000 <u>Auto</u> | |
| 60.0 | | | | | | | | Freq Of | ffs 0 I |
| 70.0 | | | | | | | | | |
| Center 2.402000 GHz Res BW 1.5 MHz | | #VBW | 5.0 MHz | | Sweep 1 | 5 Span .000 ms (| .000 MHz 1001 pts) | | |
| ISG | | | | | STATUS | | | | |

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CH39

| | | ectrum Analyzer - | | | | | | | | |
|---------------|----------|----------------------|------|---------------------------|----------------------------------|-------------|----------|---------------------|-----------------------|--|
| | RL | RF 50 | Ω AC | CORREC GHz | SENSE:INT | Avg Type: | IGN AUTO | | Mar 02, 2021 | Frequency |
| 10 d | B/div | Ref 20.00 | | PNO: Fast ↔ IFGain:Low | ⊢ Trig: Free Run Atten: 30 dB | Avg Hold: 1 | 00/100 | 2.479 9 | 75 GHz 83 dBm | Auto Tune |
| Log 10.0 | | | | | 1 | | | | | Center Freq 2.480000000 GHz |
| 0.00 -10.0 | | | | | | | | | | Start Freq 2.477500000 GHz |
| -20.0 | | | | | | | | | | Stop Freq 2.482500000 GHz |
| -40.0 | | | | | | | | | | CF Step 500.000 kHz <u>Auto</u> Man |
| -60.0 | | | | | | | | | | Freq Offset 0 Hz |
| | nter 2.4 | 180000 GH 1.5 MHz | z | #VBI | N 5.0 MHz | | weep _1 | Span 5 .000 ms (| .000 MHz 1001 pts) | |
| MSG | | | | | | | STATUS | | | |
| | _ | 7 | _ | | | | | | | |

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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 | | | | | | | |
|-------------------------------|-------------------|----------|------|--|--|--|--|
| Annliaghla Limita | Applicable Limits | | | | | | |
| Applicable Limits | Test Data | Criteria | | | | | |
| S S | Low Channel | 715.6 | PASS | | | | |
| >500KHZ | Middle Channel | 709.1 | PASS | | | | |
| | High Channel | 713.2 | PASS | | | | |

05:53:08 PM Mar 02, 2021 Center Freq: 2.402000000 GHz Trig: Free Run Avg|Ho Frequency Radio Std: None 402000000 GHz Center Avg|Hold:>100/100 #Atten: 30 dB Radio Device: BTS #IFGain:Low Ref 20.00 dBm Center Freq 2.402000000 GHz Span 3 MHz Center 2.402 GHz CF Step #Res BW 100 kHz #VBW 300 kHz Sweep 1 ms 300.000 k Auto Mar **Total Power** 10.2 dBm Occupied Bandwidth 1.0675 MHz Freq Offset 0 H; Transmit Freq Error 2.877 kHz **OBW Power** 99.00 % x dB Bandwidth 715.6 kHz -6.00 dB x dB

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

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

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

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

The same as described in section 7.2.

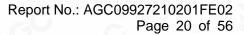
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

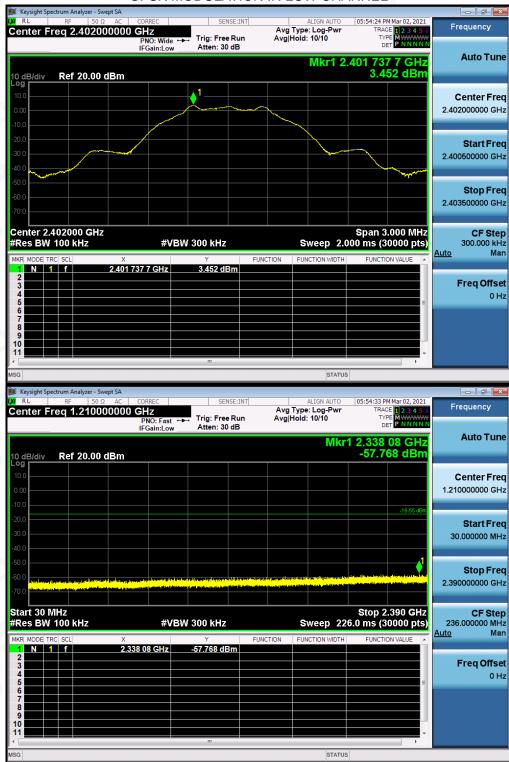
9.4. LIMITS AND MEASUREMENT RESULT

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

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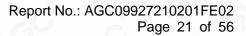




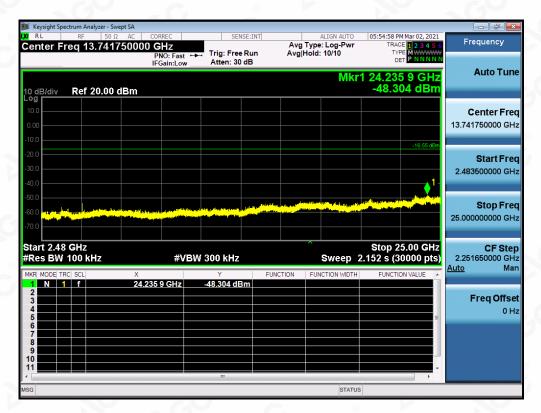


TEST RESULT FOR ENTIRE FREQUENCY RANGE GFSK MODULATION IN LOW CHANNEL

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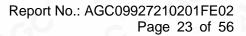
 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com

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

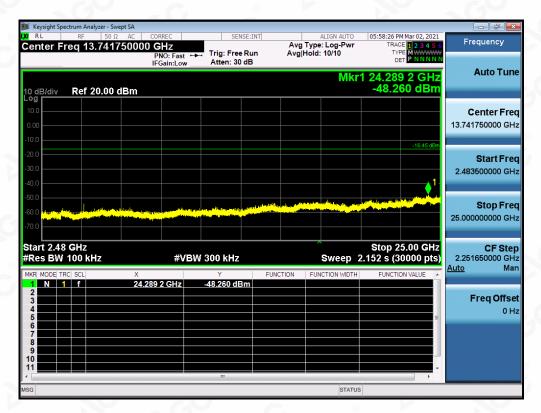


| Keysight Spectrum Analyzer - R L RF 5 | - Swept SA 0 Ω AC CORREC | SENSE:IN | ALIGN AUT | 05:57:52 PM Mar 02, 2021 | |
|--|---|--------------------------------|--|--|--|
| Center Freq 2.440 | | | Avg Type: Log-Pw Avg Hold: 10/10 | | Frequency |
| 10 dB/div Ref 20.0 | | | Mkr1 | 2.439 736 3 GHz 3.548 dBm | Auto Tune |
| | | | | | |
| 10.0 | | _ ♦ ¹ | | | Center Free |
| 0.00 | | | ~~ | | 2.440000000 GH: |
| -10.0 | | | | | |
| -20.0 | | | | | Otherst Energy |
| -30.0 | | | | | Start Free 2.438500000 GH |
| -40.0 | | | | | 2.438500000 GH |
| -50.0 | | | | | |
| -60.0 | | | | | Stop Free |
| | | | | | 2.441500000 GH |
| -70.0 | | | | | |
| Center 2.440000 GI #Res BW 100 kHz | | W 300 kHz | Sweep 2 | Span 3.000 MHz 2.000 ms (30000 pts) | CF Step 300.000 kH: |
| MKR MODE TRC SCL | X | Y | FUNCTION FUNCTION WID | TH FUNCTION VALUE | <u>Auto</u> Mar |
| 1 N 1 f | 2.439 736 3 GHz | 3.548 dBm | | | |
| 2 3 | | | | | Freq Offse |
| 4 5 | | | | - | 0 Hz |
| 6 | | | | | |
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| | | m | | • | |
| MSG | | | | | |
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| 🚺 Keysight Spectrum Analyzer - | | | I | | |
| LXIRL RF 5 | 0 Ω AC CORREC | SENSE:IN | ALIGN AUT | 05:58:01 PM Mar 02, 2021 | Frequency |
| | 0 Ω AC CORREC 0000000 GHz PNO: Fast • | Trig: Free Run | I | 05:58:01 PM Mar 02, 2021 r TRACE 1 2 3 4 5 6 | Frequency |
| LXIRL RF 5 | 0 Ω AC CORREC | THE FUE | ALIGN AUTO Avg Type: Log-Pw Avg Hold: 10/10 | 0 05:58:01 PM Mar 02, 2021 r TRACE 2 3 4 5 6 TYPE M WWWWW DET P N N N N | Frequency |
| LXIRL RF 5 | 0 Ω AC CORREC 0000000 GHz PNO: Fast + IFGain:Low | Trig: Free Run | ALIGN AUTO Avg Type: Log-Pw Avg Hold: 10/10 | 05:58:01 PM Mar 02, 2021 r TRACE 1 2 3 4 5 6 | Frequency |
| 20 RL RF 5 Center Freq 1.215 | 0 Ω AC CORREC 0000000 GHz PNO: Fast + IFGain:Low | Trig: Free Run | ALIGN AUTO Avg Type: Log-Pw Avg Hold: 10/10 | 05:58:01 PM Mar 02, 2021 r TRACE 12:3:4:5:6 TYPE M DET PINININ r1 2.312 62 GHz | Frequency Auto Tune |
| Center Freq 1.215 10 dB/div Ref 20.0 | 0 Ω AC CORREC 0000000 GHz PNO: Fast + IFGain:Low | Trig: Free Run | ALIGN AUTO Avg Type: Log-Pw Avg Hold: 10/10 | 05:58:01 PM Mar 02, 2021 r TRACE 12:3:4:5:6 TYPE M DET PINININ r1 2.312 62 GHz | Frequency Auto Tune Center Free |
| W RL RF S Center Freq 1.215 10 dB/div Ref 20.0 10 dB/div Ref 20.0 | 0 Ω AC CORREC 0000000 GHz PNO: Fast + IFGain:Low | Trig: Free Run | ALIGN AUTO Avg Type: Log-Pw Avg Hold: 10/10 | o 05:58:01 PM Mar 02, 2021 TRACE 0 2 3 4 5 6 TYPE MANNINN DET PINNINN (r1 2.312 62 GHz -57.447 dBm | Frequency Auto Tune Center Free |
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| XI RF S Center Freq 1.215 10 dB/div Ref 20.0 10.0 | 0 Ω AC CORREC 0000000 GHz PNO: Fast + IFGain:Low | Trig: Free Run | ALIGN AUTO Avg Type: Log-Pw Avg Hold: 10/10 | o 05:58:01 PM Mar 02, 2021 TRACE 0 2 3 4 5 6 TYPE MANNINN DET PINNINN (r1 2.312 62 GHz -57.447 dBm | Frequency Auto Tune Center Free 1.21500000 GH Start Free |
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| ON RL RF S Center Freq 1.215 10 dB/div Ref 20.0 10 dB/div Ref 20.0 10 dB/div Ref 20.0 -0 dB/div Ref 20.0 | 0 Ω AC CORREC 0000000 GHz PNO: Fast + IFGain:Low | Trig: Free Run | ALIGN AUTO Avg Type: Log-Pw Avg Hold: 10/10 | o 05:58:01 PM Mar 02, 2021 TRACE 0 2 3 4 5 6 TYPE MANNINN DET PINNINN (r1 2.312 62 GHz -57.447 dBm | Frequency Auto Tune Center Free 1.215000000 GH Start Free 30.000000 MH |
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| Oy RL RF S Center Freq 1.215 10 dB/div Ref 20.0 10.0 | 0 Ω AC CORREC 1000000 GHz PNO: Fast IFGain:Low 0 dBm | Trig: Free Run | ALIGN AUTO Avg Type: Log-Pw Avg Hold: 10/10 | o 05:58:01 PM Mar 02, 2021 TRACE 0 2 3 4 5 6 TYPE MANNINN DET PINNINN (r1 2.312 62 GHz -57.447 dBm | Frequency Auto Tune Center Free 1.215000000 GH3 Start Free 30.000000 MH3 Stop Free |
| Oy RL RF S Center Freq 1.215 10 dB/div Ref 20.0 10.0 | 0 Ω AC CORREC 1000000 GHz PNO: Fast IFGain:Low 0 dBm | Trig: Free Run | ALIGN AUTO Avg Type: Log-Pw Avg Hold: 10/10 | o 05:58:01 PM Mar 02, 2021 TRACE 0 2 3 4 5 6 TYPE MANNINN DET PINNINN (r1 2.312 62 GHz -57.447 dBm | Frequency Auto Tune Center Free 1.215000000 GH Start Free 30.000000 MH Stop Free 2.400000000 GH |
| X/ RL RF S 10 dB/div Ref 20.0 -10 dB/div Ref 20.0 -20 db/div Ref 20.0 -30 db/div Ref 20.0 -40 db/div Ref 20.0 -50 db/div Ref 20.0 -60 db/div Ref 20.0 -70 db/div Ref 20.0 | 0 Ω AC CORREC 1000000 GHZ PNC: Fast IFGain:Low 0 dBm 0 dBm | Trig: Free Run | ALIGN AUT Avg Type: Log-Pw Avg Hold: 10/10 | 0 05:58:01 PM Mar 02, 2021 TRACE 0.2 8.4 5.6 TYPE NNNNN rr1 2.312 62 GHz -57.447 dBm -16.45 dBn -16.45 dBn | Frequency Auto Tune Center Freq 1.21500000 GH3 Start Freq 30.00000 MH3 Stop Freq 2.40000000 GH3 CF Step 237.00000 MH3 |
| Og RL RF S Center Freq 1.215 Center Freq 1.215 Center Freq 1.215 10.0 | 0 Ω AC CORREC 1000000 GHZ PNC: Fast IFGain:Low 0 dBm 0 dBm | Trig: Free Run Atten: 30 dB | ALIGN AUT Avg Type: Log-Pw Avg Hold: 10/10 | 0 05:58:01 PM Mar 02, 2021 TRACE 12 3 4 5 6 TYPE WINN N rf 2.312 62 GHz -57.447 dBm -16.45 dBn -16.45 dBn - | Frequency Auto Tune Center Freq 1.21500000 GH3 Start Freq 30.00000 MH3 Stop Freq 2.40000000 GH3 CF Step 237.00000 MH3 |
| XI RF S Center Freq 1.215 Center Freq 1.215 10 dB/div Ref 20.0 -0 dB/div Ref 20.0 -1 dB/div 1 | 0 Ω AC CORREC 1000000 GHz PNO: Fast IFGain:Low 0 dBm 0 dBm 1 db los of posterior definition 1 db los | Trig: Free Run Atten: 30 dB | ALIGN AUT Avg Type: Log-Pw Avg Hold: 10/10 MI | 0 05:58:01 PM Mar 02, 2021 TRACE 12 3 4 5 6 TYPE WINN N rf 2.312 62 GHz -57.447 dBm -16.45 dBn -16.45 dBn - | Frequency Auto Tune Center Freq 1.21500000 GH3 Start Freq 30.00000 MH3 Stop Freq 2.40000000 GH3 CF Step 237.00000 MH3 |
| N RL RF S Center Freq 1.215 Center Freq 1.215 10 dB/div Ref 20.0 10.0 | 0 Ω AC CORREC 1000000 GHZ PNC: Fast IFGain:Low 0 dBm 0 dBm 4 w loss are provided with the second sec | Trig: Free Run Atten: 30 dB | ALIGN AUT Avg Type: Log-Pw Avg Hold: 10/10 MI | 0 05:58:01 PM Mar 02, 2021 TRACE 12 3 4 5 6 TYPE WINN N rf 2.312 62 GHz -57.447 dBm -16.45 dBn -16.45 dBn - | Frequency Auto Tune Center Freq 1.215000000 GH: Start Freq 30.000000 MH: Stop Freq 2.400000000 GH: CF Step 237.000000 MH: Auto |
| XI RF S Center Freq 1.215 Center Freq 1.215 10 dB/div Ref 20.0 10.0 Ref 20.0 20.0 Ref 20.0 -20.0 Ref 20.0 -30.0 Ref 20.0 -40.0 Ref 20.0 -50.0 Ref 20.0 -60.0 Ref 20.0 -70.0 Re | 0 Ω AC CORREC 1000000 GHZ PNC: Fast IFGain:Low 0 dBm 0 dBm 4 w loss are provided with the second sec | Trig: Free Run Atten: 30 dB | ALIGN AUT Avg Type: Log-Pw Avg Hold: 10/10 MI | 2 05:58:01 PM Mar 02, 2021 TRACE 12 3 4 5 6 TYPE DET NNNNN Cr1 2.312 62 GHz -57.447 dBm -16.45 dB | Frequency Auto Tune Center Free 1.21500000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH: Auto Mar Freq Offse |
| M RL RF S Center Freq 1.215 Center Freq 1.215 Center Freq 1.215 10 dB/div Ref 20.0 Center Freq 1.215 -0 d0 div | 0 Ω AC CORREC 1000000 GHZ PNC: Fast IFGain:Low 0 dBm 0 dBm 4 w loss are provided with the second sec | Trig: Free Run Atten: 30 dB | ALIGN AUT Avg Type: Log-Pw Avg Hold: 10/10 MI | 0 05:58:01 PM Mar 02, 2021 TRACE 12 3 4 5 6 TYPE WINN N rf 2.312 62 GHz -57.447 dBm -16.45 dBn -16.45 dBn - | Frequency Auto Tune Center Free 1.21500000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH: Auto Mar Freq Offse |
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| XI RF S Center Freq 1.215 Center Freq 1.215 10 dB/div Ref 20.0 10.0 | 0 Ω AC CORREC 1000000 GHZ PNC: Fast IFGain:Low 0 dBm 0 dBm 4 w loss are provided with the second sec | Trig: Free Run Atten: 30 dB | ALIGN AUT Avg Type: Log-Pw Avg Hold: 10/10 MI | 2 05:58:01 PM Mar 02, 2021 TRACE 12 3 4 5 6 TYPE DET NNNNN Cr1 2.312 62 GHz -57.447 dBm -16.45 dB | Start Free 30.00000 GH; Start Free 30.000000 GH; Stop Free 2.400000000 GH; CF Step 237.000000 MH; Auto Mar Freq Offset |
| M RF S Center Freq 1.215 Center Freq 1.215 10 dB/div Ref 20.0 10.0 | 0 Ω AC CORREC 1000000 GHZ PNC: Fast IFGain:Low 0 dBm 0 dBm 4 w loss are provided with the second sec | Trig: Free Run Atten: 30 dB | ALIGN AUT Avg Type: Log-Pw Avg Hold: 10/10 MI | 2 05:58:01 PM Mar 02, 2021 TRACE 12 3 4 5 6 TYPE DET NNNNN Cr1 2.312 62 GHz -57.447 dBm -16.45 dB | Frequency Auto Tune Center Free 1.21500000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH: Auto Mar Freq Offse |
| M RE RE S Center Freq 1.215 Center Freq 1.215 Center Freq 1.215 10.0 | 0 Ω AC CORREC 1000000 GHZ PNC: Fast IFGain:Low 0 dBm 0 dBm 4 w loss are provided with the second sec | Trig: Free Run Atten: 30 dB | ALIGN AUT Avg Type: Log-Pw Avg Hold: 10/10 MI | 2 05:58:01 PM Mar 02, 2021 TRACE 12:34 5 6 TYPE DET NNNNN (r1 2.312 62 GHz -57.447 dBm -16.45 dBm 1- Stop 2.400 GHz 228.0 ms (30000 pts) TH FUNCTION VALUE | Frequency Auto Tune Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Freq 2.400000000 GHz CF Step 237.000000 MHz |

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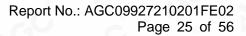
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 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



| | GFSKI | NODULATIO | | | | 5 | |
|--|---|---|------------|--|---|---|--|
| 🊺 Keysight Spectrum Analyzer - Swej | | | | | | | |
| K | 0000 GHz PNO: Wide | Trig: Free Run Atten: 30 dB | Avg Ty | ALIGN AUTO pe: Log-Pwr id: 10/10 | 06:00:22 PM TRACE TYPE DET | Mar 02, 2021 1 2 3 4 5 6 M WWWWWW P N N N N N | Frequency |
| 10 attraine - Bof 20 00 d | IFGain:Low | Atten: 00 uB | | Mkr1 2. | 479 736 | | Auto Tune |
| 10 dB/div Ref 20.00 d | ВШ | | | | | o abiii | |
| 10.0 | | ♦ ¹ | | | | | Center Free |
| 0.00 | | | ~~ | | | | 2.480000000 GH |
| -10.0 | | | | | | | |
| -20.0 | | | | | | | Start Eror |
| -30.0 | | | | | ~ | | Start Free 2.478500000 GH: |
| -40.0 | | | | | | | 2.478500000 811 |
| -50.0 | | | | | | | |
| -60.0 | | | | | | | Stop Free |
| -70.0 | | | | | | | 2.481500000 GH |
| -70.0 | | | | | | | |
| Center 2.480000 GHz #Res BW 100 kHz | #VB | W 300 kHz | | Sweep 2.0 | Span 3.0 00 ms (30 | | CF Step 300.000 kH |
| MKR MODE TRC SCL | Х | Y | FUNCTION F | UNCTION WIDTH | FUNCTION | VALUE 🔺 | <u>Auto</u> Mar |
| 2 3 4 | 2.479 736 9 GHz | 3.969 dBm | | | | | Freq Offse |
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| Keysight Spectrum Analyzer - Swej | | | | ļ. | | | |
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| Keysight Spectrum Analyzer - Swej | AC CORREC 0000 GHz PNO: Fast | SENSE:INT | Avg Ty | ļ. | TRACE | 123456 | |
| Center Freq 1.21500 | AC CORREC 00000 GHz PNO: Fast IFGain:Low | SENSE:INT | Avg Ty | ALIGN AUTO /pe: Log-Pwr id: 10/10 | TRACE TYPE DET | 123456 MWWWW PNNNNN 8 GHz | Frequency |
| 🔰 Keysight Spectrum Analyzer - Swej 🔰 RL RF 50 Ω | AC CORREC 00000 GHz PNO: Fast IFGain:Low | SENSE:INT | Avg Ty | ALIGN AUTO /pe: Log-Pwr id: 10/10 | TRACE TYPE DET | 123456 MWWWW PNNNNN 8 GHz | Frequency |
| Keysight Spectrum Analyzer - Swee W RL RF 50Ω Center Freq 1.215000 | AC CORREC 00000 GHz PNO: Fast IFGain:Low | SENSE:INT | Avg Ty | ALIGN AUTO /pe: Log-Pwr id: 10/10 | TRACE TYPE DET | 123456 MWWWW PNNNNN 8 GHz | Frequency Auto Tuno |
| Keysight Spectrum Analyzer - Swee RL | AC CORREC 00000 GHz PNO: Fast IFGain:Low | SENSE:INT | Avg Ty | ALIGN AUTO /pe: Log-Pwr id: 10/10 | TRACE TYPE DET | 123456 MWWWW PNNNNN 8 GHz | Frequency Auto Tune Center Free |
| Keysight Spectrum Analyzer - Swee W RL RF 50 Ω Center Freq 1.215000 0 dB/div Ref 20.00 d 10 dB/div Ref 20.00 d | AC CORREC 00000 GHz PNO: Fast IFGain:Low | SENSE:INT | Avg Ty | ALIGN AUTO /pe: Log-Pwr id: 10/10 | TRACE TYPE DET | 123456 MWWWW PNNNNN 8 GHz 5 dBm | Frequency Auto Tune Center Free |
| Keysight Spectrum Analyzer - Swee W RL RF 50 Ω Center Freq 1.215000 0 dB/div Ref 20.00 d 10 dB/div Ref 20.00 d | AC CORREC 00000 GHz PNO: Fast IFGain:Low | SENSE:INT | Avg Ty | ALIGN AUTO /pe: Log-Pwr id: 10/10 | TRACE TYPE DET | 123456 MWWWW PNNNNN 8 GHz | Frequency Auto Tune Center Free 1.215000000 GH |
| Keysight Spectrum Analyzer - Swee W RL RF 50 Ω Center Freq 1.215000 1.215000 10 dB/div Ref 20.00 d 10.0 | AC CORREC 00000 GHz PNO: Fast IFGain:Low | SENSE:INT | Avg Ty | ALIGN AUTO /pe: Log-Pwr id: 10/10 | TRACE TYPE DET | 123456 MWWWW PNNNNN 8 GHz 5 dBm | Frequency Auto Tune Center Free 1.21500000 GH Start Free |
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| Keysight Spectrum Analyzer - Swee R L RF 50 Ω Center Freq 1.215000 10 dB/div Ref 20.00 d 10 0 | AC CORREC 00000 GHz PNO: Fast IFGain:Low | SENSE:INT | Avg Ty | ALIGN AUTO /pe: Log-Pwr id: 10/10 | TRACE TYPE DET | 123456 MWWWW PNNNNN 8 GHz 5 dBm | Frequency Auto Tune Center Free 1.215000000 GH Start Free 30.000000 MH |
| Keysight Spectrum Analyzer - Swee R L RF 50 Ω Center Freq 1.215000 10 dB/div Ref 20.00 d 10 0 | AC CORREC 00000 GHz PNO: Fast IFGain:Low | SENSE:INT | Avg Ty | ALIGN AUTO /pe: Log-Pwr id: 10/10 | TRACE TYPE DET | 123456 MWWWW PNNNNN 8 GHz 5 dBm | Frequency Auto Tune Center Free 1.215000000 GH Start Free 30.000000 MH |
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| Keysight Spectrum Analyzer - Swee W RL RF 50 Ω Center Freq 1.215000 10 dB/div Ref 20.00 d 10 0 | AC CORREC 00000 GHz PNO: Fast IFGain:Low | SENSE:INT | Avg Ty | ALIGN AUTO /pe: Log-Pwr id: 10/10 | TRACE TYPE 1 2.237 1 -58.04 | 123456 MWWWWW PNNNNN PNNNNN PNNNNN PNNNNN PNNNNN PNNNNN PNNNNN PNNNNNN | Frequency Auto Tune Center Free 1.215000000 GH Start Free 30.000000 MH Stop Free 2.400000000 GH |
| Image: Constraint Spectrum Analyzer - Sweet RL RF 50 Ω Center Freq 1.21500 Image: Constraint Spectrum Analyzer - Sweet 10 dB/div Ref 20.00 d Log Image: Constraint Spectrum Analyzer - Sweet 10 dB/div Ref 20.00 d Log Image: Constraint Spectrum Analyzer - Sweet 10 dB/div Ref 20.00 d | AC CORREC 0000 GHz PNO: Fast IFGain:Low IBM | SENSE:INT | | ALIGN AUTO /pe: Log-Pwr id: 10/10 | TRACE Type 1 2.237 1 -58.04 | 12 3 4 5 6 WWWWWW PNNNNN PNNNNN PNNNNN PNNNNN PNNNNN PNNNNN PNNNNNN | Frequency Auto Tune Center Freq 1.215000000 GH3 Start Freq 30.000000 MH3 Stop Freq 2.40000000 GH3 CF Step 237.000000 MH3 |
| Keysight Spectrum Analyzer - Swee (₩ RL RF 50 Ω Center Freq 1.215000 00 | AC CORREC 0000 GHz PNO: Fast IFGain:Low IBM Address of all provided #VB X | SENSE:INT Trig: Free Run Atten: 30 dB | | ALIGN AUTO rpe: Log-Pwr Id: 10/10 MKr ² | TRACE Type 1 2.237 1 -58.04 | 12 3 4 5 6 WWWWWW PNNNNN PNNNNN PNNNNN PNNNNN PNNNNN PNNNNN PNNNNNN | Frequency Auto Tune Center Freq 1.215000000 GH3 Start Freq 30.000000 MH3 Stop Freq 2.40000000 GH3 CF Step 237.000000 MH3 |
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Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.

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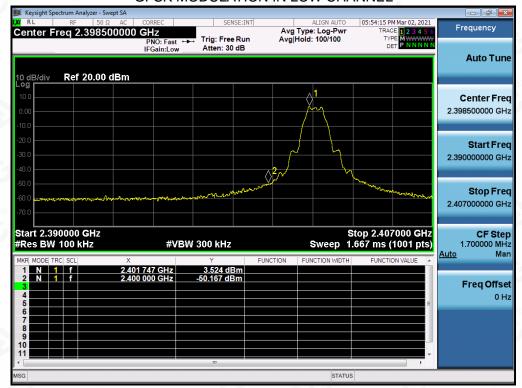
 Attestation of Global Compliance(Shenzhen)Co., Ltd

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

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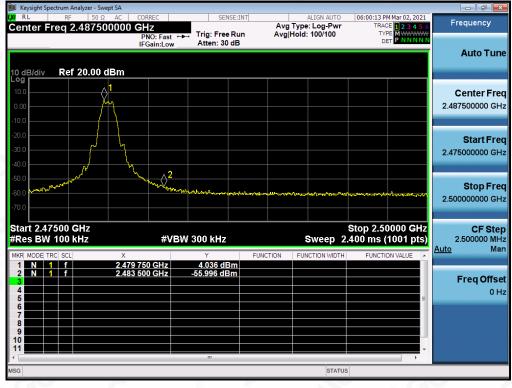
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TEST RESULT FOR BAND EDGE GFSK MODULATION IN LOW CHANNEL

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 8.4 was used in this testing.

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

Refer to Section 7.2.

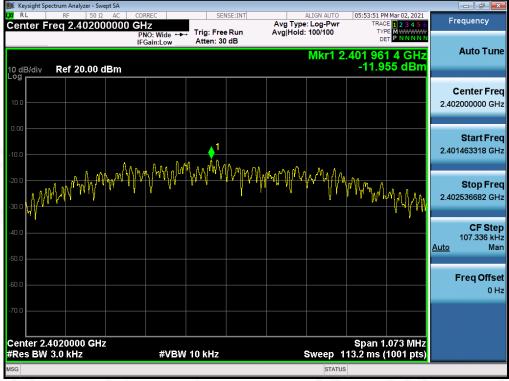
10.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

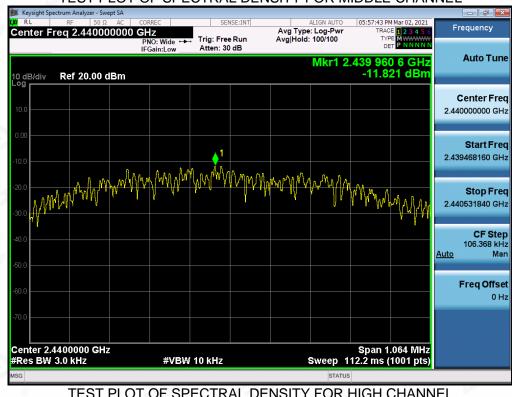
10.4. LIMITS AND MEASUREMENT RESULT

| Channel No. | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result |
|----------------|-------------------|---------------------|--------|
| Low Channel | -11.955 | 8 | Pass |
| Middle Channel | -11.821 | 8 | Pass |
| High Channel | -11.413 | 8 | Pass |

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

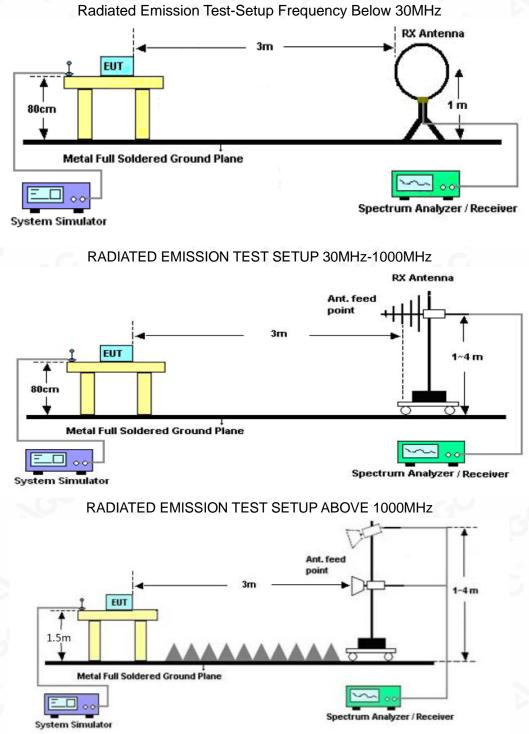
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated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

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11.2. TEST SETUP



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