

FCC Test Report

Report No.: AGC14428220501FE03

FCC ID : 2A7I5-XRDSB

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Music cup

BRAND NAME : HANMOSS

MODEL NAME XRD-075, XRD-076, XRD-077, XRD-078, XRD-079,

'XRD-085, XRD-086, XRD-087

APPLICANT: Dongguan Xingruida Electronic Technology Co., Ltd.

DATE OF ISSUE : Jun. 24, 2022

STANDARD(S) : FCC Part 15.247

REPORT VERSION : V1.0

Attestation of Global Confine (Shenzhen) Co., Ltd





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REPORT REVISE RECORD

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0 | / | Jun. 24, 2022 | Valid | Initial Release |

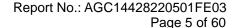


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1. VERIFICATION OF CONFORMITY

| Dongguan Xingruida Electronic Technology Co., Ltd. | |
|--|--|
| No.702, Building B, Xinqiteng Jinyinzhubao Industrial Park, No.9 Yuhu Road, Bihu Avenue, Wulian Village, Fenggang Town, Dongguan City, Guangdong Province, China | |
| Dongguan Xingruida Electronic Technology Co., Ltd. | |
| No.702, Building B, Xinqiteng Jinyinzhubao Industrial Park, No.9 Yuhu Road, Bihu Avenue, Wulian Village, Fenggang Town, Dongguan City, Guangdong Province, China | |
| Dongguan Xingruida Electronic Technology Co., Ltd. | |
| No.702, Building B, Xinqiteng Jinyinzhubao Industrial Park, No.9 Yuhu Road, Bihu Avenue, Wulian Village, Fenggang Town, Dongguan City, Guangdong Province, China | |
| Music cup | |
| HANMOSS | |
| XRD-075 | |
| XRD-076 , XRD-077, XRD-078, XRD-079, XRD-085 , XRD-086 , XRD-087 | |
| The cups are different size and color, the speaker is universal and same | |
| Jun. 20, 2022 to Jun. 24, 2022 | |
| No any deviation from the test method | |
| Normal | |
| Pass | |
| 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.

Cool Cheng
(Project Engineer)

Reviewed By

Calvin Liu
(Reviewer)

Approved By

Max Zhang
(Authorized Officer)

Jun. 24, 2022

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Music cup". It is designed by way of utilizing the GFSK and Pi/4 DQPSK technology to achieve the system operation.

A major technical description of EUT is described as following

| Operation Frequency | 2.402 GHz to 2.480 GHz | | |
|---------------------|---|--|--|
| RF Output Power | 4.224dBm (Max) | | |
| Bluetooth Version | V5.0 | | |
| Modulation | BR ⊠GFSK, EDR ⊠π /4-DQPSK, □8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps | | |
| Number of channels | 79 | | |
| Hardware Version | V1.0 | | |
| Software Version | V1.0 | | |
| Antenna Designation | PCB Antenna (Comply with requirements of the FCC part 15.203) | | |
| Antenna Gain | -0.58dBi | | |
| Power Supply | DC 3.7V by battery or DC 5V by adapter | | |

2.2. TABLE OF CARRIER FREQUENCYS

| Frequency Band | Channel Number | Frequency |
|----------------|----------------|-----------|
| | 0 | 2402 MHz |
| | 1 | 2403 MHz |
| | : | : |
| | 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 multi slot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also, the slave of the connection will use these settings. Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a hopping sequence in data mode:

40, 21, 44, 23, 04, 15, 66, 56, 19, 78, 07, 28, 69, 55,

36, 45, 05, 13, 43, 74, 57, 35, 67, 76, 02, 34, 54, 63,

42, 11, 30, 06, 64, 25, 75, 48, 17, 33, 58, 01, 29, 14,

51, 72, 03, 31, 50, 61, 77, 18, 10, 47, 12, 68, 08, 49,

20, 00, 73, 09, 16, 60, 71, 41, 24, 53, 38, 26, 46, 37,

65, 32, 70, 52, 27, 59, 22, 62, 39

2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

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

- 1. LAP/UAP of the master of the connection.
- 2. Internal master clock.

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

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

Regarding short transmissions the Bluetooth system has the following behavior:

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



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

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

This submittal(s) (test report) is intended for **FCC ID**: **2A7I5-XRDSB** filling to comply with the FCC PART 15.247 requirements.

2.7. TEST METHODOLOGY

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

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.10. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.



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3. MEASUREMENT UNCERTAINTY

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

| Item | Measurement Uncertainty | |
|---|----------------------------|--|
| Uncertainty of Conducted Emission for AC Port | $U_c = \pm 3.1 \text{ dB}$ | |
| Uncertainty of Radiated Emission below 1GHz | $U_c = \pm 4.0 \text{ dB}$ | |
| Uncertainty of Radiated Emission above 1GHz | $U_c = \pm 4.8 \text{ dB}$ | |
| Uncertainty of total RF power, conducted | $U_c = \pm 0.8 \text{ dB}$ | |
| Uncertainty of RF power density, conducted | $U_c = \pm 2.6 \text{ dB}$ | |
| Uncertainty of spurious emissions, conducted | $U_c = \pm 2 \%$ | |
| Uncertainty of Occupied Channel Bandwidth | $U_c = \pm 2 \%$ | |



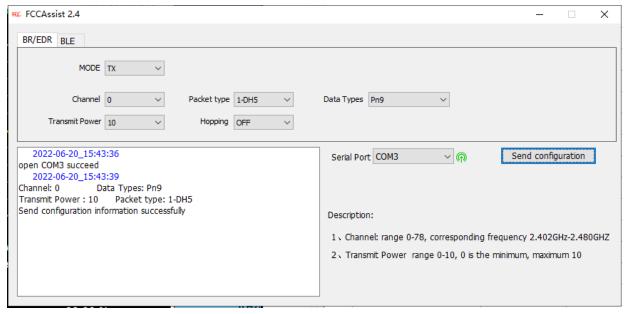
4. DESCRIPTION OF TEST MODES

| 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 | Hopping mode GFSK | | |
| 8 | Hopping mode π/4-DQPSK | | |

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





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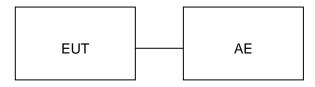
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:



5.2. EQUIPMENT USED IN TESTED SYSTEM

| Item | Equipment | Model No. | ID or Specification | Remark |
|------|--------------|-------------------|---------------------|--------|
| 1 | Music cup | XRD-075 | 2A7I5-XRDSB | EUT |
| 2 | Xiaomi phone | Mi 10 | | AE |
| 3 | adapter | TPA-23A050200CU01 | DC 5V, 2A | AE |

5.3. SUMMARY OF TEST RESULTS

| FCC RULES | DESCRIPTION OF TEST | RESULT |
|--------------------|------------------------------|-----------|
| 15.247 (b)(1) | Peak Output Power | Compliant |
| 15.247 (a)(1) | 20 dB Bandwidth | Compliant |
| 15.247 (d) | Conducted Spurious Emission | Compliant |
| 15.209 | Radiated Emission | Compliant |
| 15.247 (a)(1)(iii) | Number of Hopping Frequency | Compliant |
| 15.247 (a)(1)(iii) | Time of Occupancy | Compliant |
| 15.247 (a)(1) | Frequency Separation Complia | |
| 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 | Mar. 28, 2022 | Mar. 27, 2023 |
| LISN | R&S | ESH2-Z5 | 100086 | Jun. 08, 2022 | Jun. 07, 2023 |
| 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 | Mar. 28, 2022 | Mar. 27, 2023 |
| EXA Signal Analyzer | Aglient | N9010A | MY53470504 | Nov. 17, 2021 | Nov. 16, 2022 |
| Power sensor | Aglient | U2021XA | MY54110007 | Mar. 04, 2022 | Mar. 03, 2023 |
| 2.4GHz Filter | EM Electronics | 2400-2500MHz | N/A | Mar. 22, 2022 | Mar. 21, 2024 |
| Attenuator | ZHINAN | E-002 | N/A | Sep. 03, 2020 | Sep. 02, 2022 |
| Horn antenna | SCHWARZBECK | BBHA 9170 | #768 | Oct. 31, 2021 | Oct. 30, 2023 |
| Active loop antenna (9K-30MHz) | ZHINAN | ZN30900C | 18051 | Mar. 12, 2022 | Mar. 21, 2024 |
| Double-Ridged Waveguide Horn | ETS LINDGREN | 3117 | 00034609 | Apr. 23, 2021 | Apr. 22, 2023 |
| Broadband Preamplifier | ETS LINDGREN | 3117PA | 00225134 | Sep. 03, 2020 | Sep. 02, 2022 |
| ANTENNA | SCHWARZBECK | VULB9168 | 494 | Jan. 08, 2020 | Jan. 07, 2023 |
| Test software | Tonscend | JS32-RE (Ver.2.5) | N/A | N/A | N/A |

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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

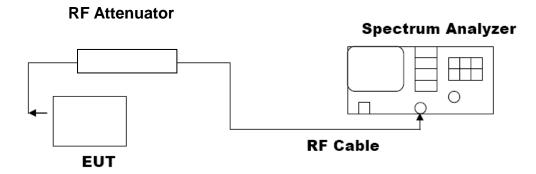
For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 3. RBW > 20 dB bandwidth of the emission being measured.
- 4. VBW ≥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

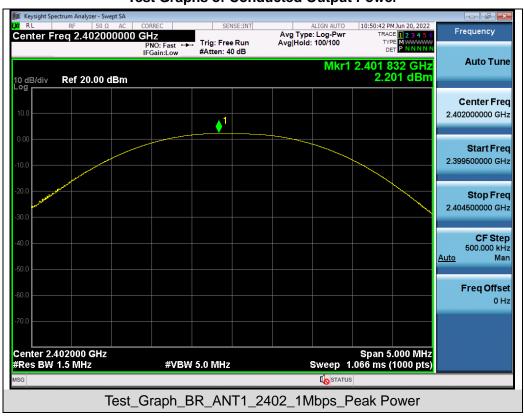




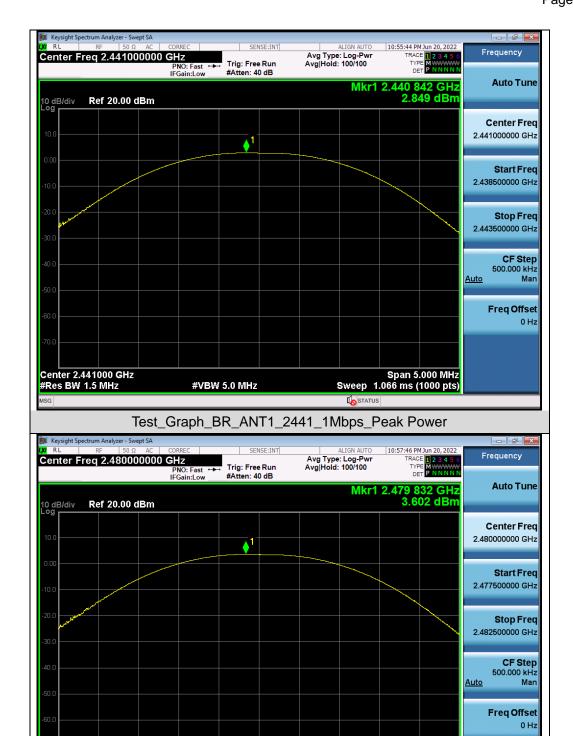
7.3. LIMITS AND MEASUREMENT RESULT

| Test Data of Conducted Output Power | | | | |
|-------------------------------------|-----------------------|---------------------|-----------------|--------------|
| Test Mode | Test Channel (MHz) | Peak Power (dBm) | Limits (dBm) | Pass or Fail |
| | 2402 | 2.201 | ≤21 | Pass |
| GFSK | 2441 | 2.849 | ≤21 | Pass |
| | 2480 | 3.602 | ≤21 | Pass |
| | 2402 | 2.909 | ≤21 | Pass |
| π /4-DQPSK | 2441 | 3.486 | ≤21 | Pass |
| | 2480 | 4.224 | ≤21 | Pass |

Test Graphs of Conducted Output Power







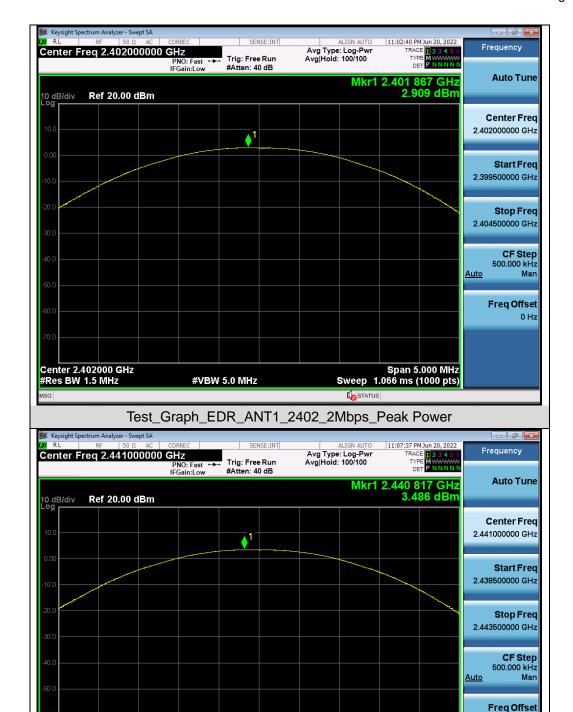
Test_Graph_BR_ANT1_2480_1Mbps_Peak Power

#VBW 5.0 MHz

Span 5.000 MHz Sweep 1.066 ms (1000 pts)

Center 2.480000 GHz #Res BW 1.5 MHz





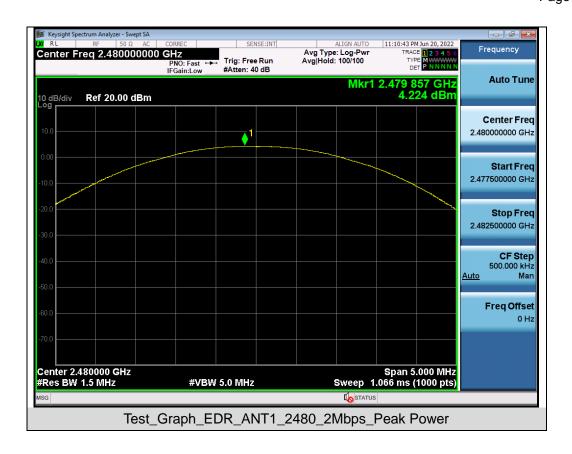
Test_Graph_EDR_ANT1_2441_2Mbps_Peak Power

#VBW 5.0 MHz

Span 5.000 MHz Sweep 1.066 ms (1000 pts)

Center 2.441000 GHz #Res BW 1.5 MHz







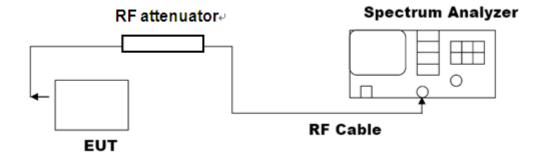
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8. 20DB BANDWIDTH

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)

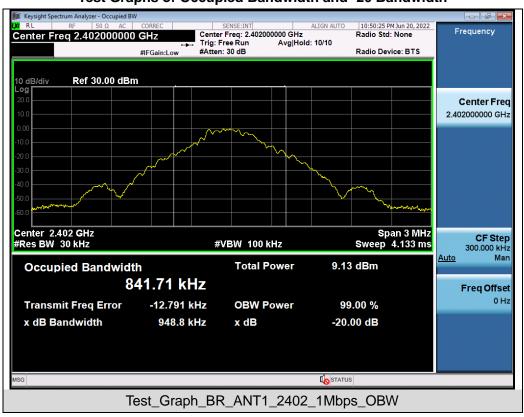




8.3. LIMITS AND MEASUREMENT RESULTS

| Test Data of Occupied Bandwidth and -20dB Bandwidth | | | | | |
|---|-----------------------|---------------------------------|--------------------------|--------|--------------|
| Test Mode | Test Channel (MHz) | 99% Occupied Bandwidth (MHz) | -20dB Bandwidth (MHz) | Limits | Pass or Fail |
| | 2402 | 0.842 | 0.949 | N/A | Pass |
| GFSK | 2441 | 0.846 | 0.951 | N/A | Pass |
| | 2480 | 0.844 | 0.948 | N/A | Pass |
| π /4-DQPSK | 2402 | 1.177 | 1.310 | N/A | Pass |
| | 2441 | 1.183 | 1.313 | N/A | Pass |
| | 2480 | 1.185 | 1.313 | N/A | Pass |

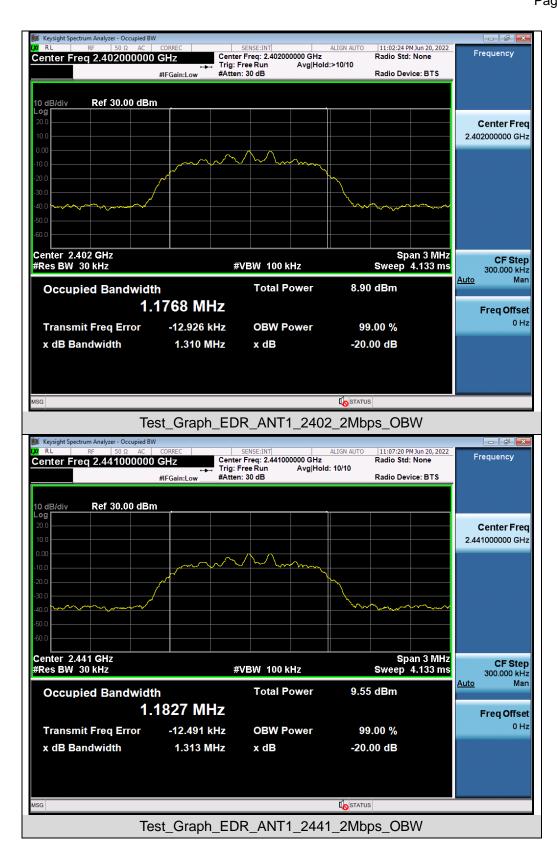
Test Graphs of Occupied Bandwidth and -20 Bandwidth



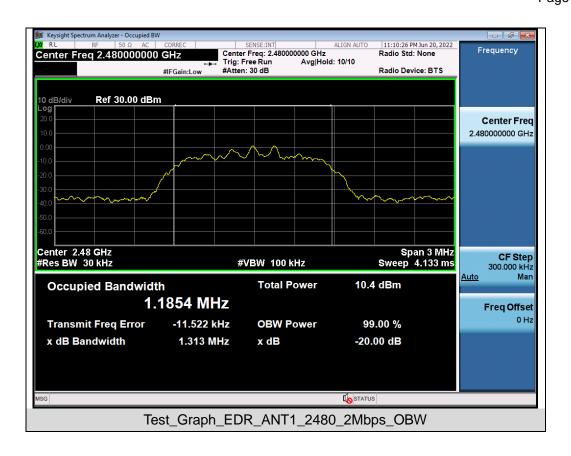














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9. CONDUCTED SPURIOUS EMISSION

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

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

The same as described in section 8.2

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

9.4. LIMITS AND MEASUREMENT RESULT

| LIMITS AND MEASUREMENT RESULT | | | | |
|---|--------------------------------|----------|--|--|
| Amplicable Limite | Measurement Result | | | |
| Applicable Limits | Test Data | Criteria | | |
| In any 100 kHz Bandwidth Outside the | At least -20dBc than the limit | | | |
| frequency band in which the spread spectrum | Specified on the BOTTOM | PASS | | |
| intentional radiator is operating, the radio frequency | Channel | | | |
| 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 limit | DACC | | |
| In addition, radiation emissions which fall in the | Specified on the TOP Channel | PASS | | |
| restricted bands, as defined in §15.205(a), must also | | | | |
| comply with the radiated emission limits specified | | | | |
| in§15.209(a)) | | | | |



Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands



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2.442500000 GHz

<u>Auto</u>

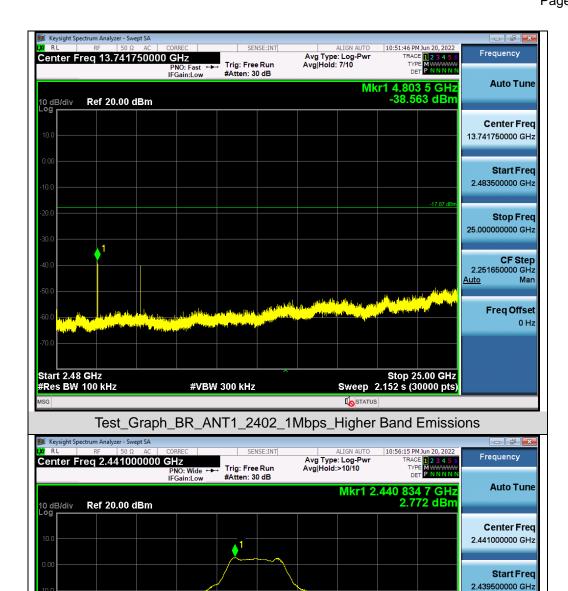
Span 3.000 MHz Sweep 2.000 ms (30000 pts)

CF Step 300.000 kHz

Freq Offset

Man





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Test_Graph_BR_ANT1_2441_1Mbps_Reference Level

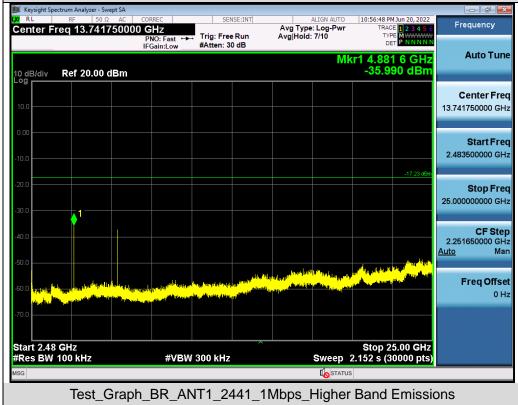
#VBW 300 kHz

Center 2.441000 GHz #Res BW 100 kHz

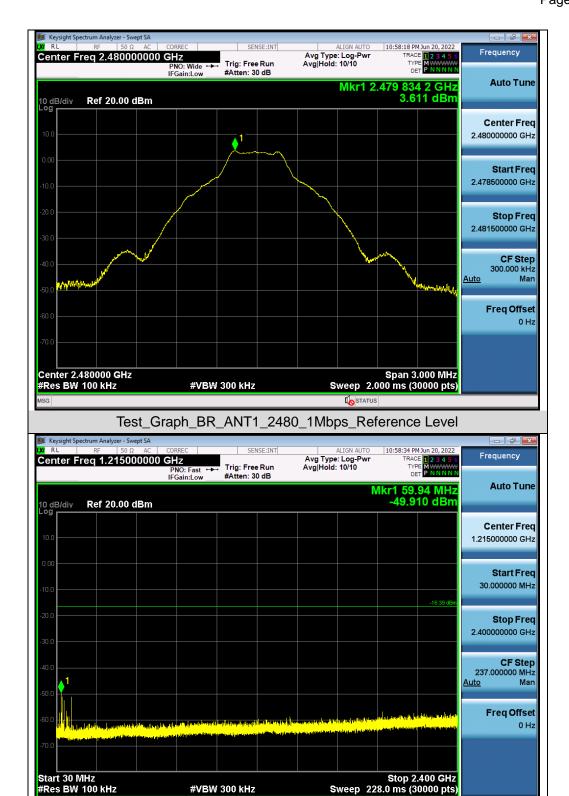
Web: http://www.agccert.com/











Test_Graph_BR_ANT1_2480_1Mbps_Lower Band Emissions

#VBW 300 kHz

2.403500000 GHz

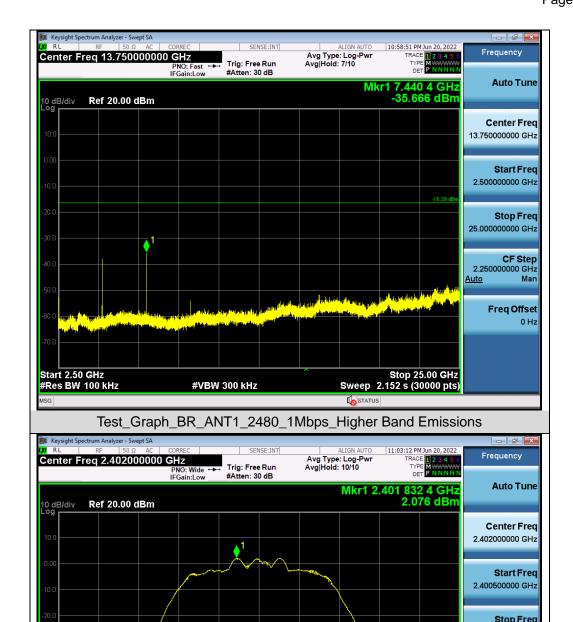
<u>Auto</u>

Span 3.000 MHz Sweep 2.000 ms (30000 pts) CF Step 300.000 kHz

Freq Offset

Man





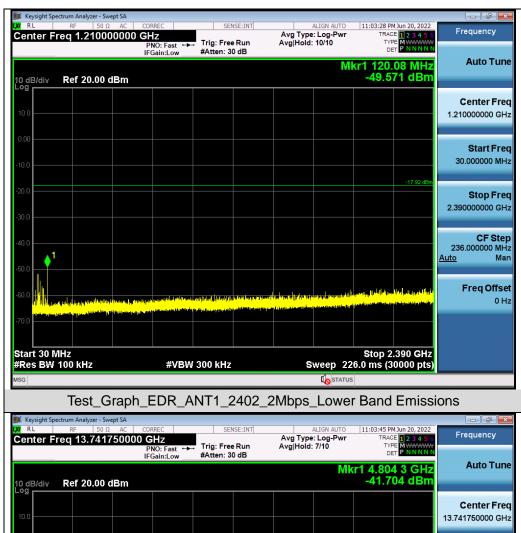
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test_Graph_EDR_ANT1_2402_2Mbps_Reference Level

#VBW 300 kHz

Center 2.402000 GHz #Res BW 100 kHz









Test_Graph_EDR_ANT1_2441_2Mbps_Lower Band Emissions

#VBW 300 kHz

Stop 2.400 GHz Sweep 228.0 ms (30000 pts)

Start 30 MHz #Res BW 100 kHz

2.481500000 GHz

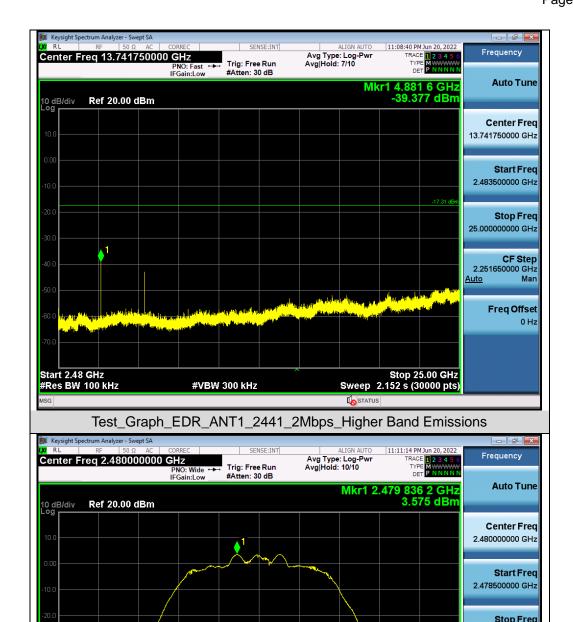
<u>Auto</u>

Span 3.000 MHz Sweep 2.000 ms (30000 pts) CF Step 300.000 kHz

Freq Offset

Man





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Test_Graph_EDR_ANT1_2480_2Mbps_Reference Level

#VBW 300 kHz

Center 2.480000 GHz #Res BW 100 kHz

25.000000000 GHz

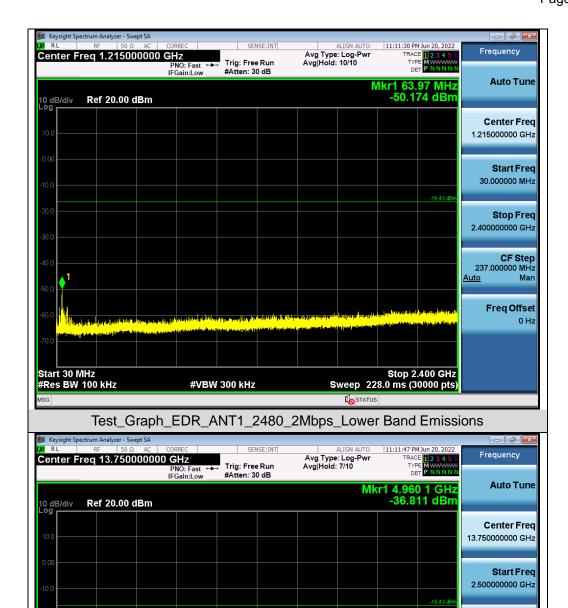
<u>Auto</u>

Stop 25.00 GHz Sweep 2.152 s (30000 pts) CF Step 2.250000000 GHz

> Freq Offset 0 Hz

Mar



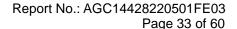


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test_Graph_EDR_ANT1_2480_2Mbps_Higher Band Emissions

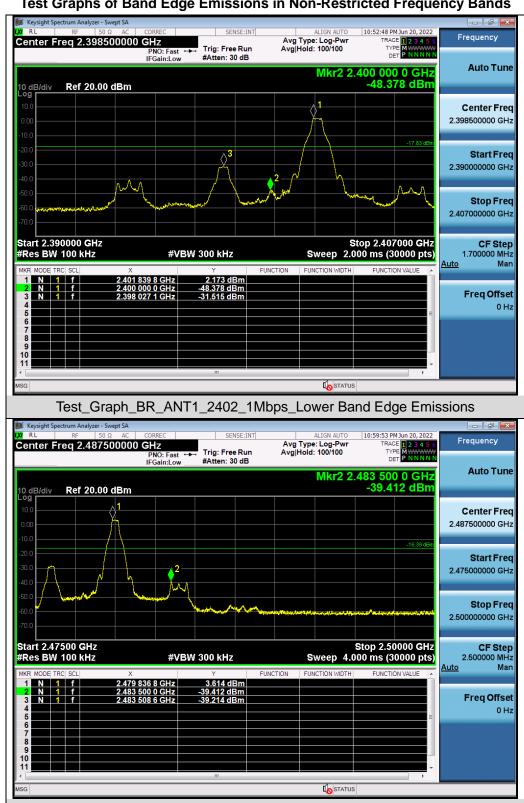
#VBW 300 kHz

Start 2.50 GHz #Res BW 100 kHz





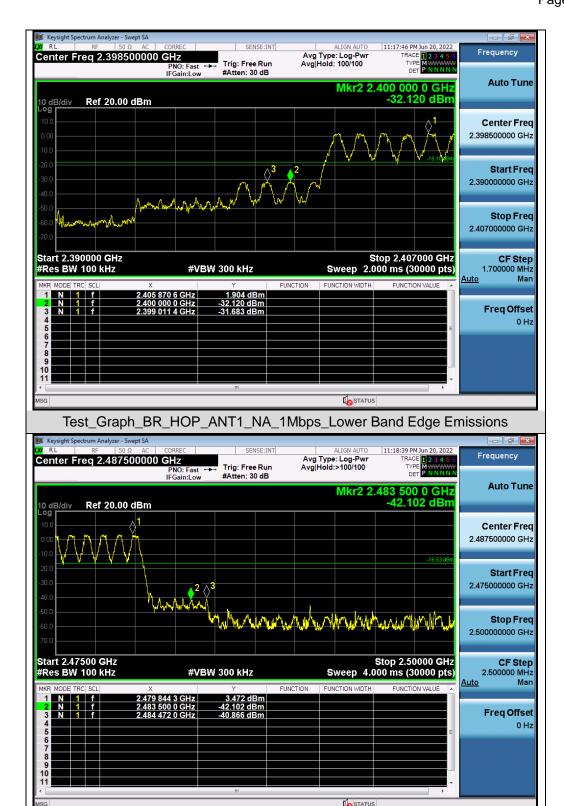
Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



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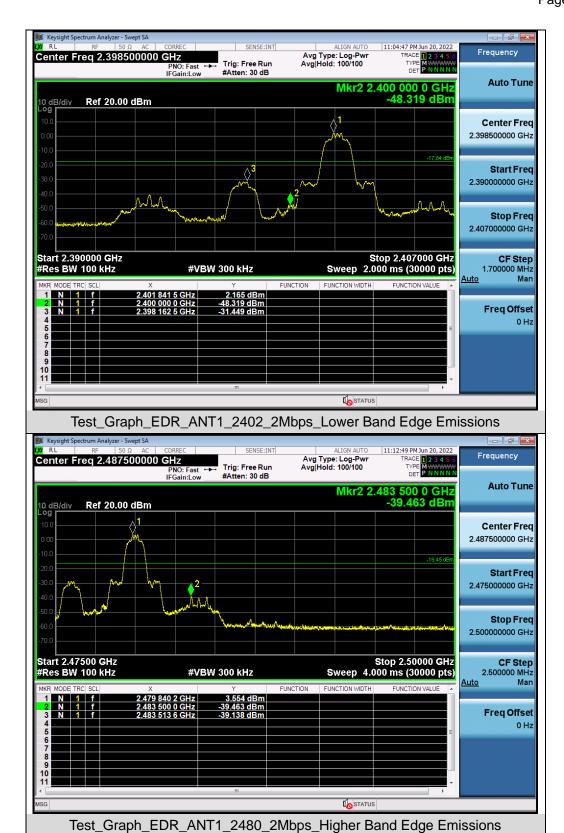
Test_Graph_BR_ANT1_2480_1Mbps_Higher Band Edge Emissions





Test_Graph_BR_HOP_ANT1_NA_1Mbps_Higher Band Edge Emissions









Test_Graph_EDR_HOP_ANT1_NA_2Mbps_Higher Band Edge Emissions

#VBW 300 kHz

40 575 dBn

Sweep 4.000 ms (30000 pts)

2.500000 MHz

Freq Offset

Mar

<u>Auto</u>

#Res BW 100 kHz



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10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

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



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

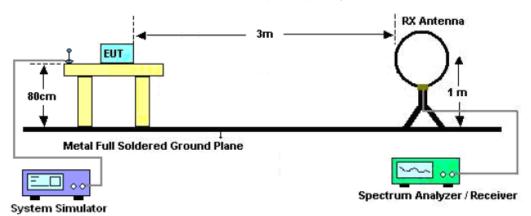
| Spectrum Parameter | Setting |
|-----------------------|---|
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP |
| Start ~Stop Frequency | 1GHz~26.5GHz |
| Start ~Stop Frequency | 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 |

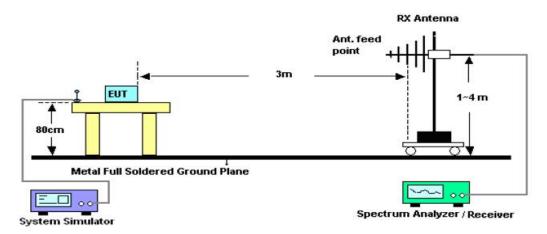


10.2. TEST SETUP

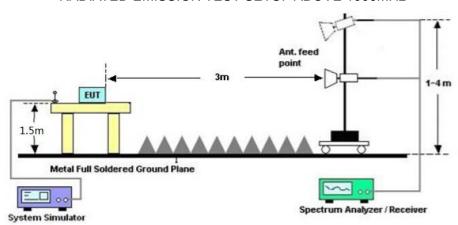
Radiated Emission Test-Setup Frequency Below 30MHz



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

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

10.4. TEST RESULT

Radiated emission below 30MHz

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



Radiated emission from 30MHz to 1000MHz

| EUT | Music cup | Model Name | XRD-075 |
|-------------|-----------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 6 | Antenna | Horizontal |

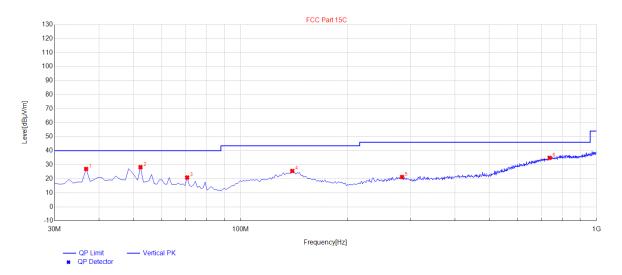


| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|----------------|-------------------|----------------|-------------------|----------------|-------------|--------------|------------|
| 1 | 36.79 | 22.81 | 10.73 | 40.00 | 17.19 | 100 | 297 | Horizontal |
| 2 | 52.31 | 26.53 | 11.49 | 40.00 | 13.47 | 100 | 348 | Horizontal |
| 3 | 66.86 | 22.33 | 9.76 | 40.00 | 17.67 | 100 | 178 | Horizontal |
| 4 | 140.58 | 23.13 | 17.79 | 43.50 | 20.37 | 100 | 305 | Horizontal |
| 5 | 393.75 | 22.46 | 17.12 | 46.00 | 23.54 | 100 | 119 | Horizontal |
| 6 | 806.97 | 34.78 | 29.27 | 46.00 | 11.22 | 100 | 249 | Horizontal |

RESULT: PASS



| EUT | Music cup | Model Name | XRD-075 |
|-------------|-----------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 6 | Antenna | Vertical |



| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|----------------|-------------------|----------------|-------------------|----------------|-------------|--------------|----------|
| 1 | 36.79 | 26.97 | 10.73 | 40.00 | 13.03 | 100 | 269 | Vertical |
| 2 | 52.31 | 28.31 | 11.49 | 40.00 | 11.69 | 100 | 222 | Vertical |
| 3 | 70.74 | 20.91 | 9.07 | 40.00 | 19.09 | 100 | 352 | Vertical |
| 4 | 139.61 | 25.55 | 19.79 | 43.50 | 17.95 | 100 | 4 | Vertical |
| 5 | 284.14 | 21.26 | 16.00 | 46.00 | 24.74 | 100 | 151 | Vertical |
| 6 | 738.1 | 34.90 | 29.99 | 46.00 | 11.10 | 100 | 123 | Vertical |

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

2. All test modes had been pre-tested. The mode 6 is the worst case and recorded in the report.



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Radiated emission above 1GHz

| EUT | Music cup | Model Name | XRD-075 |
|-------------|-----------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 4 | Antenna | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|-----------|---------------|--------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4804.000 | 46.23 | 0.08 | 46.31 | 74 | -27.69 | peak |
| 4804.000 | 37.42 | 0.08 | 37.5 | 54 | -16.5 | AVG |
| 7206.000 | 41.05 | 2.21 | 43.26 | 74 | -30.74 | peak |
| 7206.000 | 32.49 | 2.21 | 34.7 | 54 | -19.3 | AVG |
| demark: | | | | | | |

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

| EUT | Music cup | Model Name | XRD-075 |
|-------------|-----------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 4 | Antenna | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|-----------|---------------|--------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4804.000 | 46.26 | 0.08 | 46.34 | 74 | -27.66 | peak |
| 4804.000 | 37.52 | 0.08 | 37.6 | 54 | -16.4 | AVG |
| 7206.000 | 41.06 | 2.21 | 43.27 | 74 | -30.73 | peak |
| 7206.000 | 32.49 | 2.21 | 34.7 | 54 | -19.3 | AVG |
| | | | | | | |
| | | | | | | |
| Domork | | | | | | |

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

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| EUT | Music cup | Model Name | XRD-075 |
|-------------|-----------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 5 | Antenna | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|-----------|---------------|--------|----------------|----------|--------|--------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | ─ Value Type |
| 4882.000 | 46.28 | 0.14 | 46.42 | 74 | -27.58 | peak |
| 4882.000 | 37.54 | 0.14 | 37.68 | 54 | -16.32 | AVG |
| 7323.000 | 40.16 | 2.36 | 42.52 | 74 | -31.48 | peak |
| 7323.000 | 31.59 | 2.36 | 33.95 | 54 | -20.05 | AVG |
| | | | | | | |
| | | | | | | |

Remark:

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

| EUT | Music cup | Model Name | XRD-075 |
|-------------|-----------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 5 | Antenna | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|-----------|---------------|--------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4882.000 | 46.97 | 0.14 | 47.11 | 74 | -26.89 | peak |
| 4882.000 | 37.51 | 0.14 | 37.65 | 54 | -16.35 | AVG |
| 7323.000 | 41.06 | 2.36 | 43.42 | 74 | -30.58 | peak |
| 7323.000 | 32.49 | 2.36 | 34.85 | 54 | -19.15 | AVG |
| | | | | | | |
| | | | | | | |

Remark:

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



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| EUT | Music cup | Model Name | XRD-075 |
|-------------|-----------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 6 | Antenna | Horizontal |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Tree |
|-----------|---------------|--------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Value Type |
| 4960.000 | 47.52 | 0.22 | 47.74 | 74 | -26.26 | peak |
| 4960.000 | 38.42 | 0.22 | 38.64 | 54 | -15.36 | AVG |
| 7440.000 | 41.19 | 2.64 | 43.83 | 74 | -30.17 | peak |
| 7440.000 | 32.46 | 2.64 | 35.1 | 54 | -18.9 | AVG |
| | | | | | | |
| | | | | | | |

Remark:

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

| EUT | Music cup | Model Name | XRD-075 |
|-------------|-----------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 6 | Antenna | Vertical |

| Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Value Type |
|----------------|-------------------|---------------|----------------|----------|--------|------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | value Type |
| 4960.000 | 47.58 | 0.22 | 47.8 | 74 | -26.2 | peak |
| 4960.000 | 38.24 | 0.22 | 38.46 | 54 | -15.54 | AVG |
| 7440.000 | 41.49 | 2.64 | 44.13 | 74 | -29.87 | peak |
| 7440.000 | 32.48 | 2.64 | 35.12 | 54 | -18.88 | AVG |
| | | | | | | |
| Remark: | | | | | | |
| Factor = Anter | nna Factor + Cabl | e Loss – Pre- | amplifier. | | | |

RESULT: PASS

Note:

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

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

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

All test modes had been tested. The π /4-DQPSK modulation is the worst case and recorded in the report.



Test result for band edge emission at restricted bands

| EUT | Music cup | Model Name | XRD-075 |
|-------------|-----------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 4 | Antenna | Horizontal |

Test Graph for Peak Measurement



Test Graph for Average Measurement

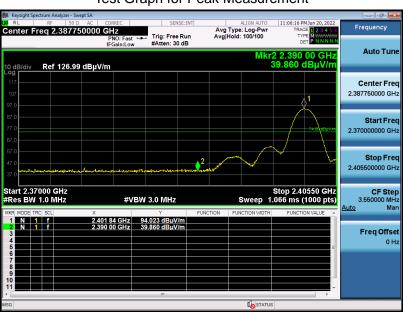


RESULT: PASS

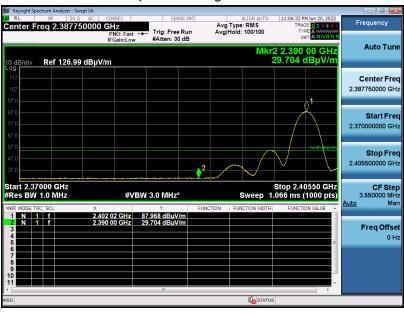


| EUT | Music cup | Model Name | XRD-075 |
|-------------|-----------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 5 | Antenna | Vertical |

Test Graph for Peak Measurement



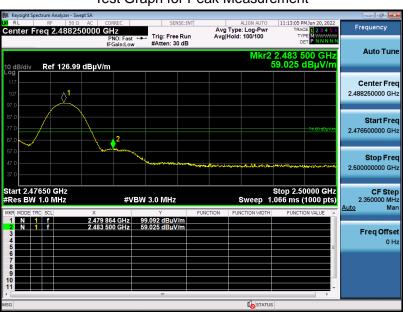
Test Graph for Average Measurement



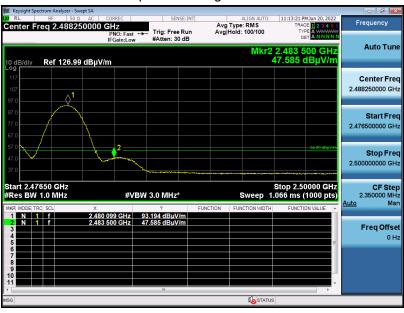


| EUT | Music cup | Model Name | XRD-075 |
|-------------|-----------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 6 | Antenna | Horizontal |

Test Graph for Peak Measurement



Test Graph for Average Measurement



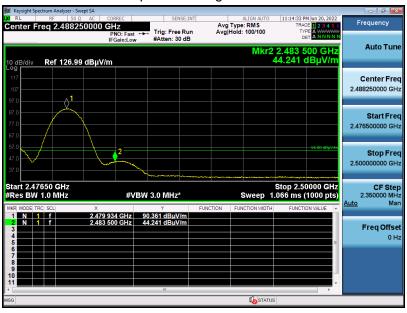


| EUT | Music cup | Model Name | XRD-075 |
|-------------|-----------|-------------------|----------------|
| Temperature | 25°C | Relative Humidity | 55.4% |
| Pressure | 960hPa | Test Voltage | Normal Voltage |
| Test Mode | Mode 6 | Antenna | Vertical |

Test Graph for Peak Measurement



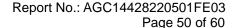
Test Graph for Average Measurement



Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. The π /4-DQPSK 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 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

| Test Data of Number of Hopping Frequency | | | | | |
|--|----|------|------|--|--|
| Test Mode Number of Hopping Frequency Limits Pass or | | | | | |
| GFSK Hopping | 79 | >=15 | Pass | | |

Test Graphs of Number of Hopping Frequency



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 ≤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

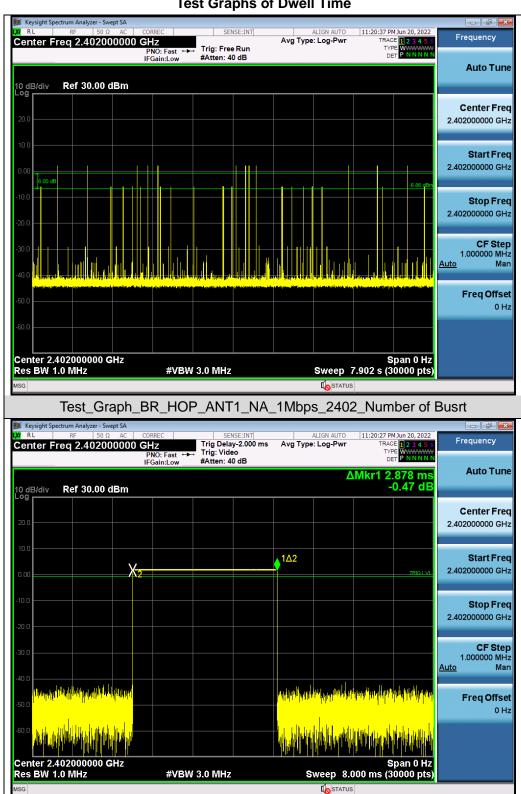
12.4. LIMITS AND MEASUREMENT RESULT

| Test Data of Dwell Time | | | | | | | |
|-------------------------|----------------------------------|--|--------------------|---------------|--------------|--|--|
| Channel | Time of Pulse for DH5 (ms) | Number of hops in the period specified in the requirements | Sweep Time (ms) | Limit (ms) | Pass or Fail | | |
| 2402 | 2.878 | 12.0*4 | 138.144 | 400 | Pass | | |
| 2441 | 2.878 | 19.0*4 | 218.728 | 400 | Pass | | |
| 2480 | 2.878 | 19.0*4 | 218.728 | 400 | Pass | | |

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



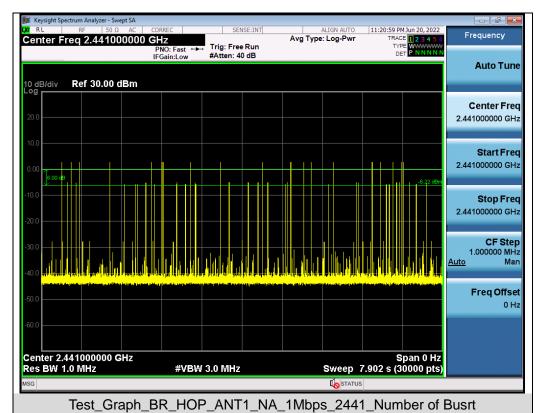
Test Graphs of Dwell Time

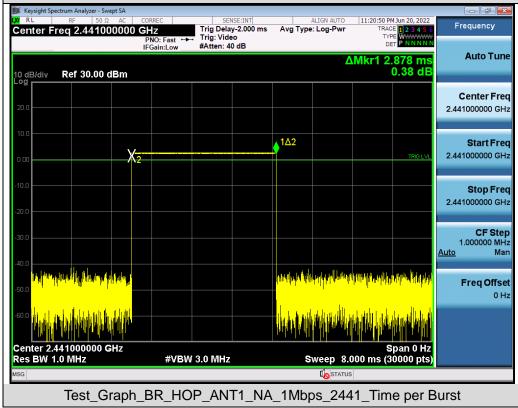


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Test_Graph_BR_HOP_ANT1_NA_1Mbps_2402_Time per Burst

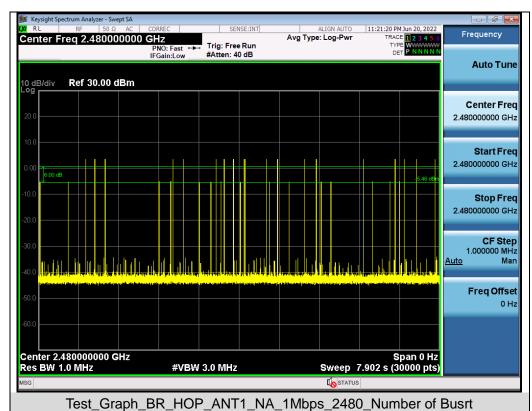


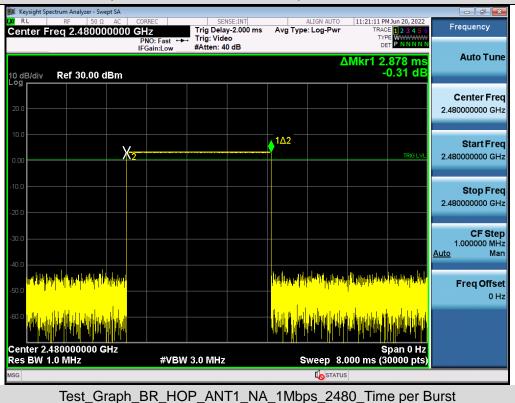




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13. FREQUENCY SEPARATION

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) ≥ 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

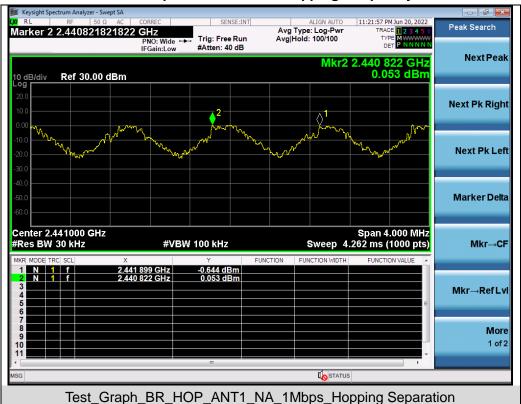
13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

13.4. LIMITS AND MEASUREMENT RESULT

| Test Data of Frequency Separation | | | | | | | |
|---|-------|-----------------|------|--|--|--|--|
| Test Mode Channel Separation (MHz) Limits Pass or Fai | | | | | | | |
| GFSK Hopping | 1.077 | >= 2/3 -20dB BW | Pass | | | | |

Test Graphs of Number of Hopping Frequency



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



14. LINE CONDUCTED EMISSION TEST

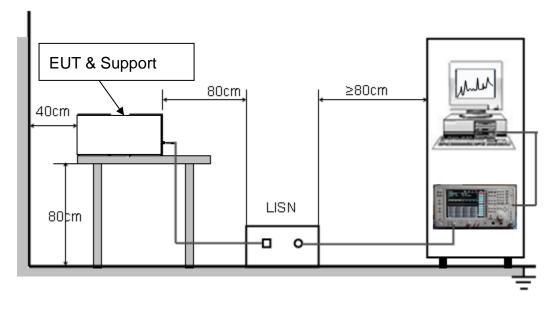
14.1. LIMITS OF LINE CONDUCTED EMISSION TEST

| F | Maximum RF Line Voltage | | | | |
|---------------|-------------------------|----------------|--|--|--|
| Frequency | Q.P. (dBμV) | Average (dBµV) | | | |
| 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

- 1. 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.

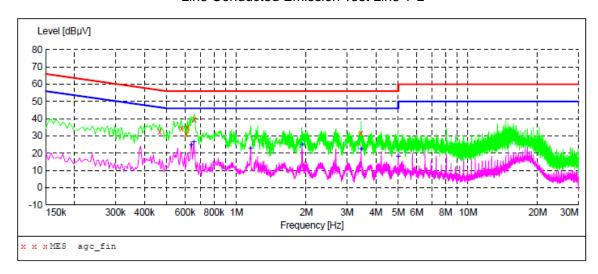
14.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. 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.



14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "agc_fin"

| 2022/6/23 Frequenc MF | cy Level | Transd dB | Limit dBµV | Margin dB | Detector | Line |
|-----------------------------|----------|--------------|---------------|--------------|----------|------|
| 0.46600 | 00 32.30 | 5.5 | 57 | 24.3 | QP | L1 |
| 0.57800 | 00 34.30 | 5.4 | 56 | 21.7 | QP | L1 |
| 0.60600 | 00 31.20 | 5.4 | 56 | 24.8 | QP | L1 |
| 0.61400 | 00 34.90 | 5.4 | 56 | 21.1 | QP | L1 |
| 0.65800 | 00 39.40 | 5.4 | 56 | 16.6 | QP | L1 |
| 3.45800 | 00 31.60 | 6.5 | 56 | 24.4 | QP | L1 |

MEASUREMENT RESULT: "agc fin2"

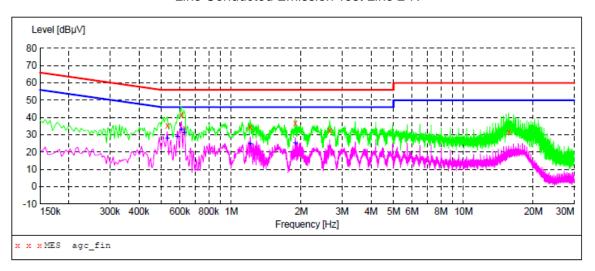
| 2022/6/23 | 8:59 | | | | | |
|--------------|---------------------|--------------|---------------|--------------|----------|------|
| Frequen M | cy Level Hz dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line |
| 0.6380 | 00 24.70 | 5.4 | 46 | 21.3 | AV | L1 |
| 0.6540 | 00 26.20 | 5.4 | 46 | 19.8 | AV | L1 |
| 1.1500 | 00 22.50 | 5.6 | 46 | 23.5 | AV | L1 |
| 1.9220 | 00 25.00 | 6.4 | 46 | 21.0 | AV | L1 |
| 3.4580 | 00 22.10 | 6.5 | 46 | 23.9 | AV | L1 |
| 4.9940 | 00 18.10 | 6.6 | 46 | 27.9 | AV | L1 |

RESULT: PASS

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "agc_fin"

| 2022/6/23 Frequenc MF | | Transd dB | Limit dBµV | Margin dB | Detector | Line |
|-----------------------------|----------|--------------|---------------|--------------|----------|------|
| 0.53000 | 35.20 | 5.4 | 56 | 20.8 | QP | N |
| 0.61000 | 00 41.40 | 5.4 | 56 | 14.6 | QP | N |
| 1.20600 | 00 34.30 | 5.7 | 56 | 21.7 | QP | N |
| 1.88600 | 00 36.70 | 6.4 | 56 | 19.3 | QP | N |
| 2.65400 | 00 32.70 | 6.5 | 56 | 23.3 | QP | N |
| 15.68200 | 00 31.60 | 8.4 | 60 | 28.4 | QP | N |

MEASUREMENT RESULT: "agc_fin2"

| 8:55 | | | | | |
|---------------------|--|---|---|---|---|
| cy Level iz dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line |
| 00 27.90 | 5.4 | 46 | 18.1 | AV | N |
| 0 28.60 | 5.4 | 46 | 17.4 | AV | N |
| 0 33.10 | 5.4 | 46 | 12.9 | AV | N |
| 0 31.00 | 5.4 | 46 | 15.0 | AV | N |
| 0 24.40 | 5.7 | 46 | 21.6 | AV | N |
| 00 25.10 | 6.4 | 46 | 20.9 | AV | N |
| | Level dBμV 27.90 28.60 33.10 31.00 24.40 | Level Transd dB | Ey Level Transd Limit dBμV dB dBμV dB dBμV 46 dBμV dB dBμV dB dBμV dB dBμV dB dBμV dB dBμV dC | Ey Level Transd Limit Margin dB dBμV dB dBμν dBμν | Level Transd Limit Margin Detector dBμV dB dB dBμν dBμν |

RESULT: PASS

Note: All test modes had been pre-tested. The mode 6 is the worst case and recorded in the report.



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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC14428220501AP01

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC14428220501AP02

----END OF REPORT----



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