

# **FCC Test Report**

Report No.: AGC00793221203FE03

**FCC ID** : 2A4WA-C57

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION**: Wireless Audio Receiver

**BRAND NAME** : N/A

C57, C51, C52, C22, C36, C33S, C41S, C21, C39HD, HD09, C5, BT6, C53, C56, T26, T13, T14, T11, 09S, T10, C41, C11, C39, C39S, T7, T9, T17, T96, T12, B12, X1, BT-13,

**MODEL NAME** : BT12, BT-3, T15, C28, C33, C31, C29, C34, C35, C37, C42,

C43, C44, C45, C46, C28S, T1, T19, C32, TYPE-C, T15, T2, C68, C68S, BT17, C36S, C71, C72, C73, C74, C75, C76,

C77, C79

**APPLICANT**: Dongguan Jieshengda Intelligent Technology Co., Ltd.

**DATE OF ISSUE** : Dec. 22, 2022

**STANDARD(S)** : FCC Part 15.247

REPORT VERSION :

Attestation of Global Compliance (Shenzhen) Co., Ltd

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## REPORT REVISE RECORD

Report Version	n Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Dec. 22, 2022	Valid	Initial Release

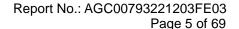


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## 1. VERIFICATION OF CONFORMITY

Applicant	Dongguan Jieshengda Intelligent Technology Co., Ltd.
Address	Room 201, Building 4, No. 103, Binhe North Road, Guanjingtou, Fenggang Town, Dongguan City, Guangdong Province
Manufacturer	Dongguan Jieshengda Intelligent Technology Co., Ltd.
Address	Room 201, Building 4, No. 103, Binhe North Road, Guanjingtou, Fenggang Town, Dongguan City, Guangdong Province
Factory	Dongguan Jieshengda Intelligent Technology Co., Ltd.
Address	Room 201, Building 4, No. 103, Binhe North Road, Guanjingtou, Fenggang Town, Dongguan City, Guangdong Province
Product Designation	Wireless Audio Receiver
Brand Name	N/A
Test Model	C57
Series Model	C51, C52, C22, C36, C33S, C41S, C21, C39HD, HD09, C5, BT6, C53, C56, T26, T13, T14, T11, 09S, T10, C41, C11, C39, C39S, T7, T9, T17, T96, T12, B12, X1, BT-13, BT12, BT-3, T15, C28, C33, C31, C29, C34, C35, C37, C42, C43, C44, C45, C46, C28S, T1, T19, C32, TYPE-C, T15, T2, C68, C68S, BT17, C36S, C71, C72, C73, C74, C75, C76, C77, C79
Declaration of Difference	All the same except for the model name.
Date of receipt of test item	Dec. 19, 2022
Date of test	Dec. 19, 2022 to Dec. 22, 2022
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BR/RF

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

Prepared By	Thea Huang	
	Thea Huang (Project Engineer)	Dec. 22, 2022
Reviewed By	Calin Lin	
	Calvin Liu (Reviewer)	Dec. 22, 2022
Approved By	Max Zhang	
	Max Zhang (Authorized Officer)	Dec. 22, 2022

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## 2. GENERAL INFORMATION

## 2.1. PRODUCT DESCRIPTION

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

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480 GHz	
RF Output Power	-0.060dBm (Max)	
Bluetooth Version	V5.3	
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps	
Number of channels	79	
Hardware Version	V1	
Software Version	V1	
Antenna Designation	PCB Antenna (Comply with requirements of the FCC part 15.203)	
Antenna Gain	2.04dBi	
Power Supply	DC 3.7V by battery or DC 5V by adapter	
Note: The EUT doesn't support BLE.		

## 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**: **2A4WA-C57** 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	$U_c = \pm 2.7 \%$	
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$	



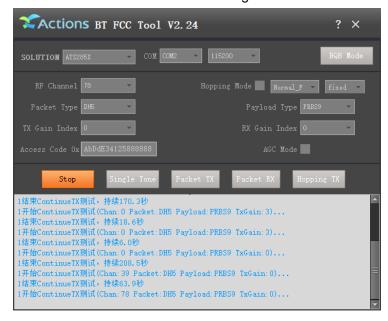
## 4. DESCRIPTION OF TEST MODES

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	Low channel 8DPSK
8	Middle channel 8DPSK
9	High channel 8DPSK
10	Hopping mode GFSK
11	Hopping mode π/4-DQPSK
12	Hopping mode 8DPSK

#### Note:

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

#### Software Setting





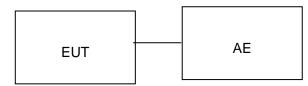
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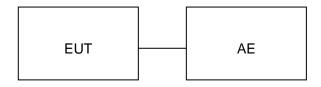
## 5. SYSTEM TEST CONFIGURATION

## **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	Wireless Audio Receiver	C57	2A4WA-C57	EUT
2	Control Box	USB-TTL	N/A	AE
3	Adapter	HW-050200C01	N/A	AE

#### 5.3. SUMMARY OF TEST RESULTS

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



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## 6. TEST FACILITY

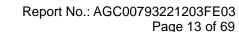
Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location  1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping C Fuhai Street, Bao'an District, Shenzhen, Guangdong, China	
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	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	Aug. 04, 2022	Aug. 03, 2023
2.4GHz Filter	EM Electronics	2400-2500	N/A	Mar. 22, 2022	Mar. 21, 2024
Attenuator	ZHINAN	E-002	N/A	Aug. 04, 2022	Aug. 03, 2024
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 31, 2021	Oct. 30, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 02, 2022	Sep. 01, 2024
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A





## 7. PEAK OUTPUT POWER

## 7.1. MEASUREMENT PROCEDURE

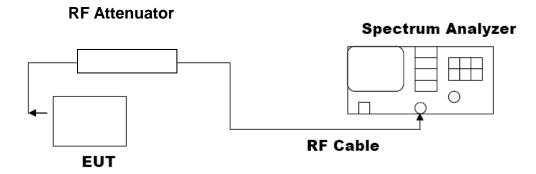
For peak power test:

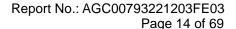
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 3. RBW > 20 dB bandwidth of the emission being measured.
- 4. VBW ≥RBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: 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	-1.145	<b></b> \$21	Pass	
GFSK	2441	-1.354	<b></b> \$21	Pass	
	2480	-1.977	<b></b> 21	Pass	
π /4-DQPSK	2402	-0.602	<b></b> \$21	Pass	
	2441	-0.818	<b></b> 21	Pass	
	2480	-1.469	<b></b> 21	Pass	
8DPSK	2402	-0.060	<b></b> \$21	Pass	
	2441	-0.341	<b></b> \$21	Pass	
	2480	-0.976	<b></b> \$21	Pass	

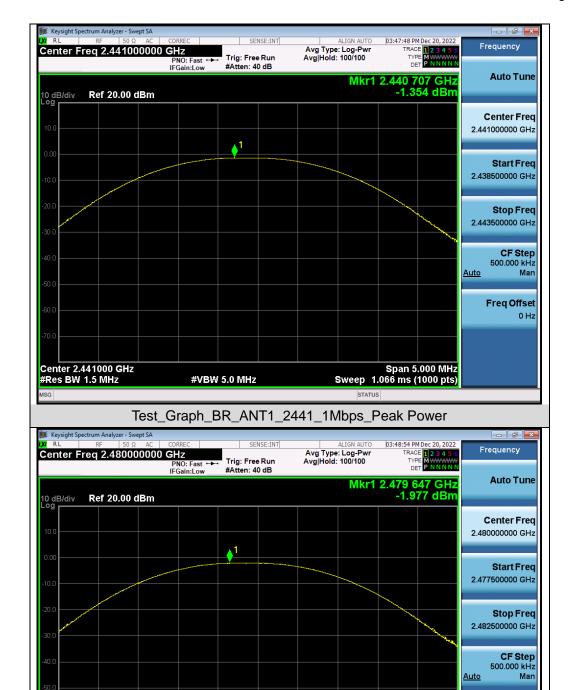
## **Test Graphs of Conducted Output Power**



Freq Offset

Span 5.000 MHz Sweep 1.066 ms (1000 pts)





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Test\_Graph\_BR\_ANT1\_2480\_1Mbps\_Peak Power

**#VBW 5.0 MHz** 

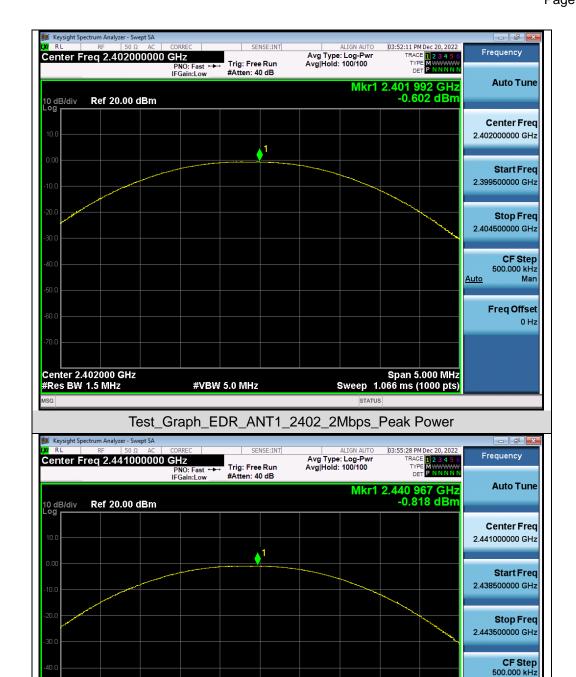
Center 2.480000 GHz #Res BW 1.5 MHz

<u>Auto</u>

Span 5.000 MHz Sweep 1.066 ms (1000 pts) Man

Freq Offset





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Test\_Graph\_EDR\_ANT1\_2441\_2Mbps\_Peak Power

**#VBW 5.0 MHz** 

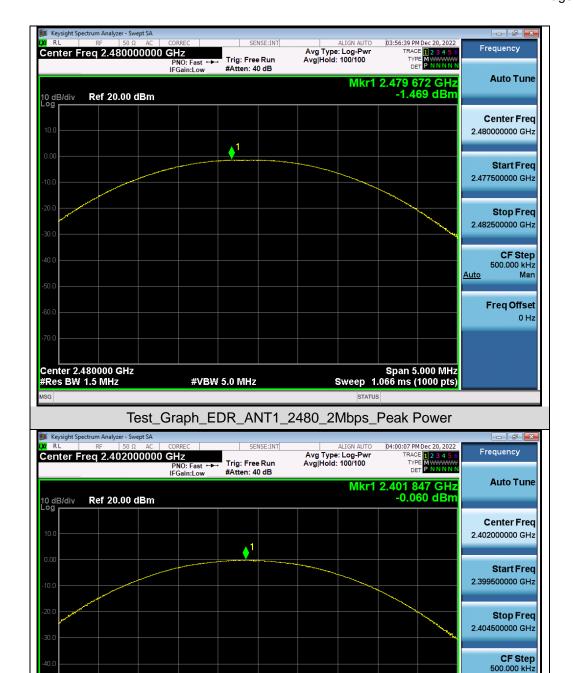
Center 2.441000 GHz #Res BW 1.5 MHz

<u>Auto</u>

Span 5.000 MHz Sweep 1.066 ms (1000 pts) Man

Freq Offset





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Test\_Graph\_EDR\_ANT1\_2402\_3Mbps\_Peak Power

**#VBW 5.0 MHz** 

Center 2.402000 GHz #Res BW 1.5 MHz

2.477500000 GHz

**Stop Freq** 2.482500000 GHz

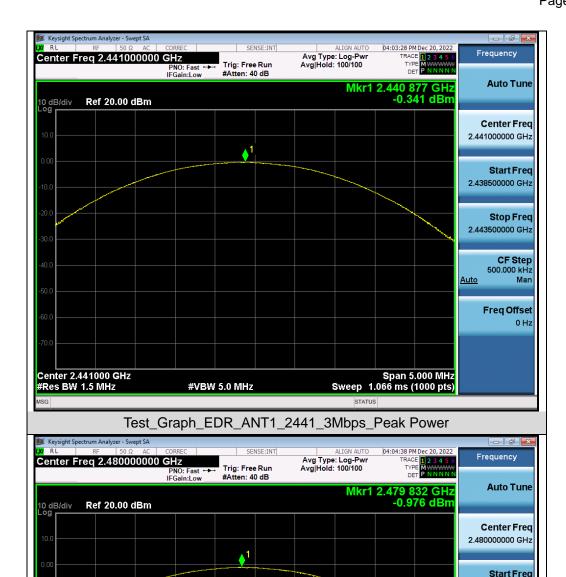
CF Step 500.000 kHz

Freq Offset

Man

<u>Auto</u>





Center 2.480000 GHz
#Res BW 1.5 MHz #VBW 5.0 MHz Sweep 1.066 ms (1000 pts)

MSG STATUS

Test\_Graph\_EDR\_ANT1\_2480\_3Mbps\_Peak Power

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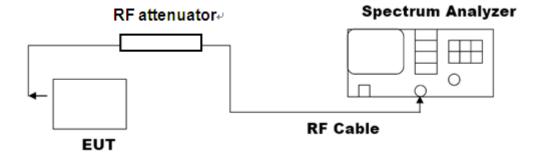
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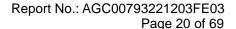
## 8. 20DB BANDWIDTH

## **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)



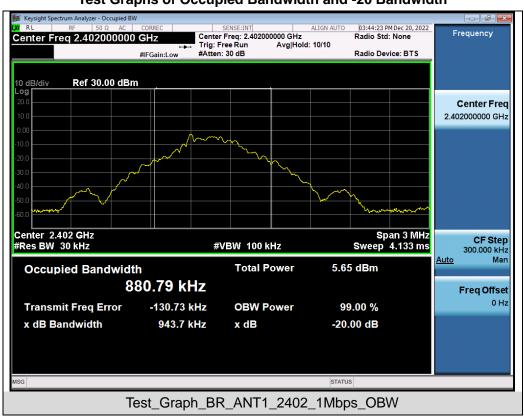




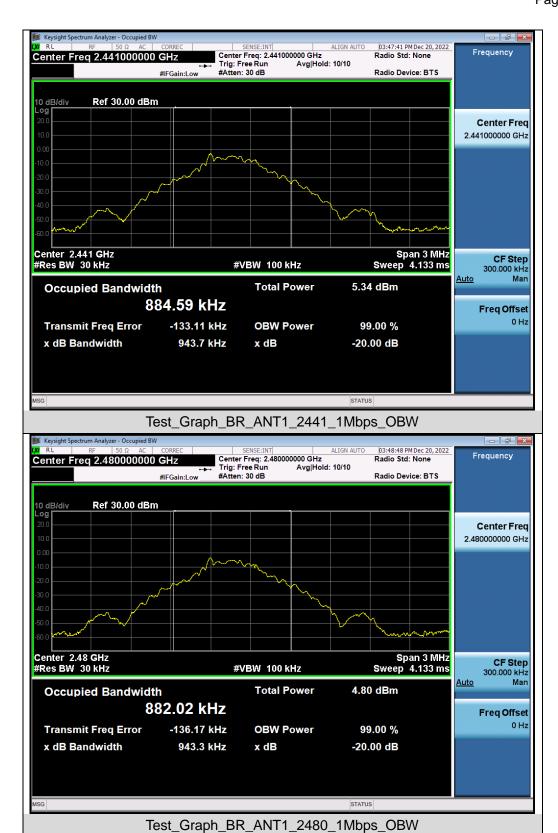
#### 8.3. LIMITS AND MEASUREMENT RESULTS

Test Data of Occupied Bandwidth and -20dB Bandwidth					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-20dB Bandwidth (MHz)	Limits	Pass or Fail
GFSK	2402	0.881	0.944	N/A	Pass
	2441	0.885	0.944	N/A	Pass
	2480	0.882	0.943	N/A	Pass
π /4-DQPSK	2402	1.167	1.272	N/A	Pass
	2441	1.166	1.271	N/A	Pass
	2480	1.165	1.271	N/A	Pass
8DPSK	2402	1.157	1.249	N/A	Pass
	2441	1.156	1.248	N/A	Pass
	2480	1.155	1.249	N/A	Pass

## Test Graphs of Occupied Bandwidth and -20 Bandwidth









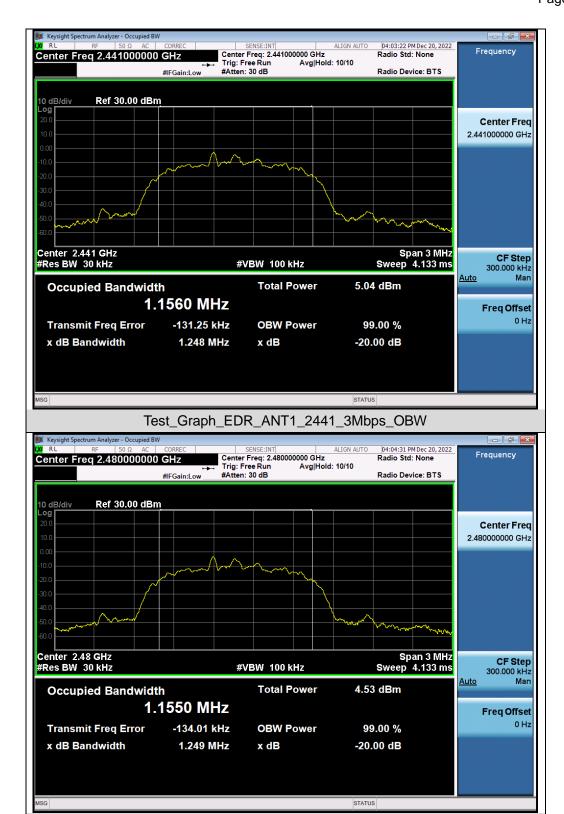






Test\_Graph\_EDR\_ANT1\_2402\_3Mbps\_OBW





Test\_Graph\_EDR\_ANT1\_2480\_3Mbps\_OBW



Report No.: AGC00793221203FE03

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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

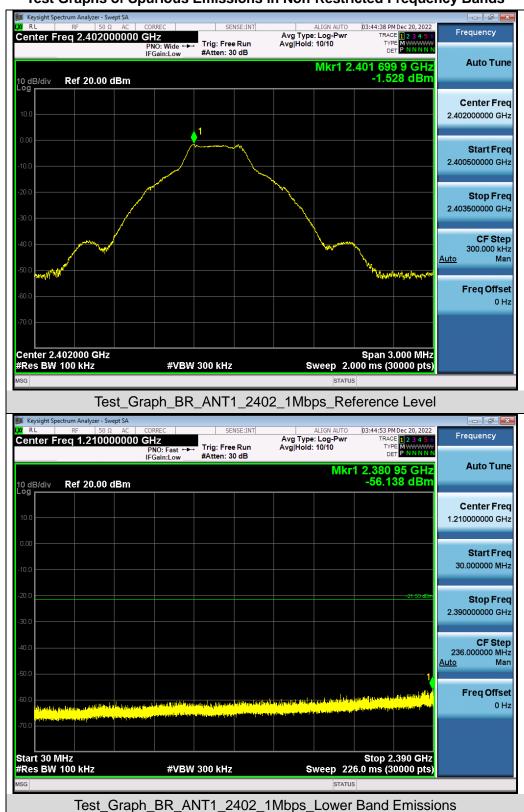
The same as described in section 6

## 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	PASS		
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



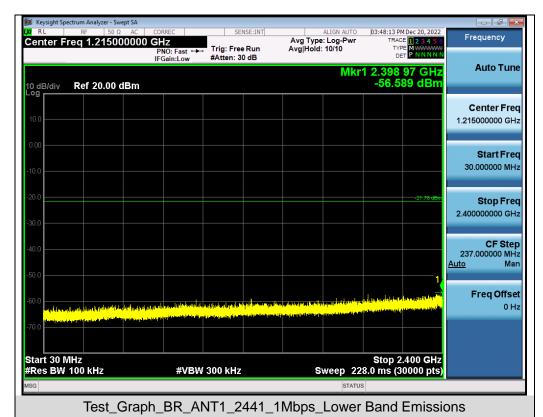
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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\_BR\_ANT1\_2480\_1Mbps\_Lower Band Emissions

#VBW 300 kHz

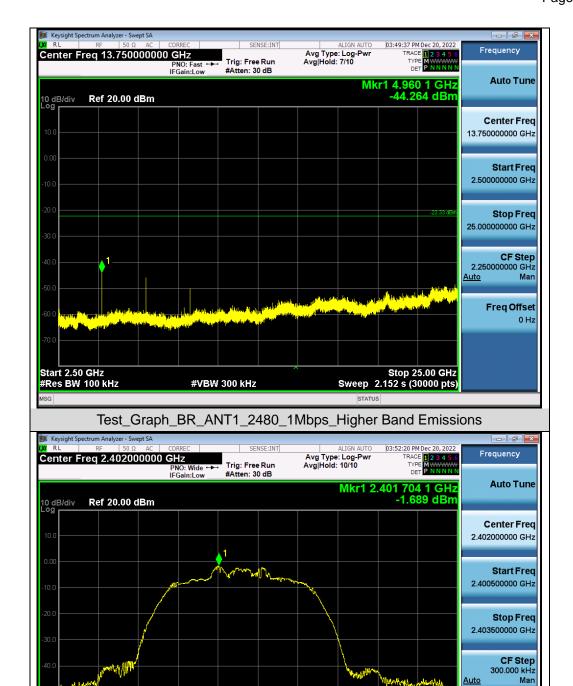
Stop 2.400 GHz Sweep 228.0 ms (30000 pts)

Start 30 MHz #Res BW 100 kHz

Freq Offset

Span 3.000 MHz Sweep 2.000 ms (30000 pts)





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Test\_Graph\_EDR\_ANT1\_2402\_2Mbps\_Reference Level

**#VBW** 300 kHz

Center 2.402000 GHz #Res BW 100 kHz

**Stop Freq** 25.000000000 GHz

**CF Step** 2.251650000 GHz

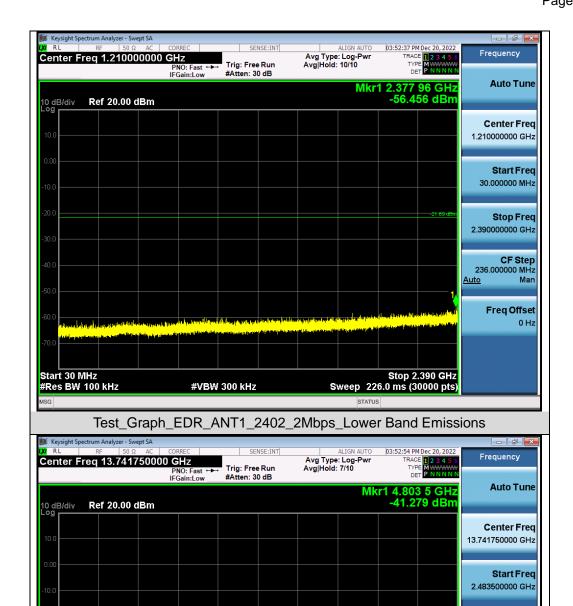
Freq Offset 0 Hz

Man

<u>Auto</u>

Stop 25.00 GHz Sweep 2.152 s (30000 pts)





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Test\_Graph\_EDR\_ANT1\_2402\_2Mbps\_Higher Band Emissions

#VBW 300 kHz

Start 2.48 GHz #Res BW 100 kHz

Freq Offset

Stop 2.400 GHz Sweep 228.0 ms (30000 pts)





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Test\_Graph\_EDR\_ANT1\_2441\_2Mbps\_Lower Band Emissions

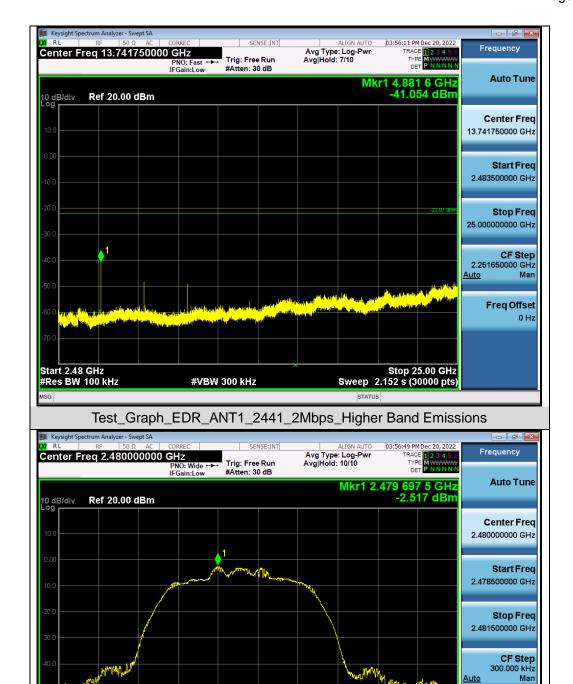
#VBW 300 kHz

Start 30 MHz #Res BW 100 kHz

Freq Offset

Span 3.000 MHz Sweep 2.000 ms (30000 pts)





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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

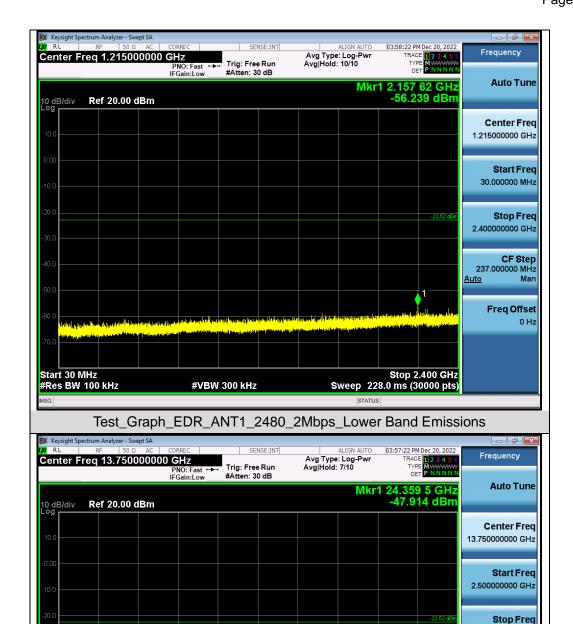
<u>Auto</u>

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

> Freq Offset 0 Hz

Man





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Test\_Graph\_EDR\_ANT1\_2480\_2Mbps\_Higher Band Emissions

#VBW 300 kHz

Start 2.50 GHz #Res BW 100 kHz

Freq Offset

Stop 2.390 GHz Sweep 226.0 ms (30000 pts)





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Test\_Graph\_EDR\_ANT1\_2402\_3Mbps\_Lower Band Emissions

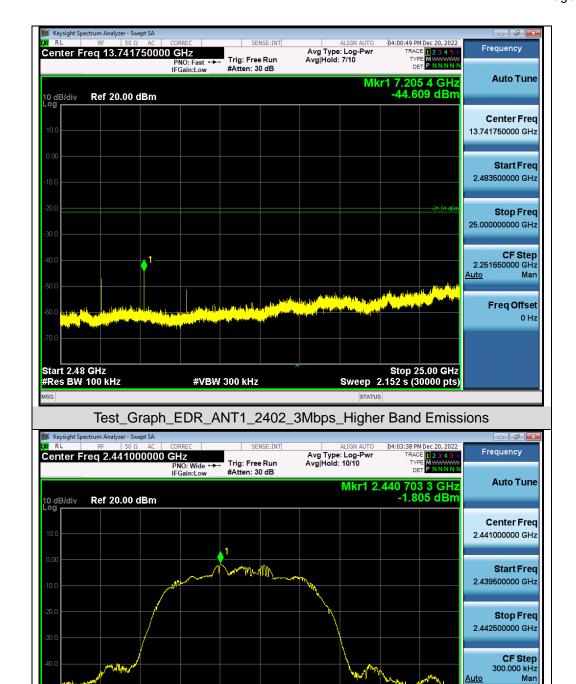
#VBW 300 kHz

Start 30 MHz #Res BW 100 kHz

Freq Offset

Span 3.000 MHz Sweep 2.000 ms (30000 pts)





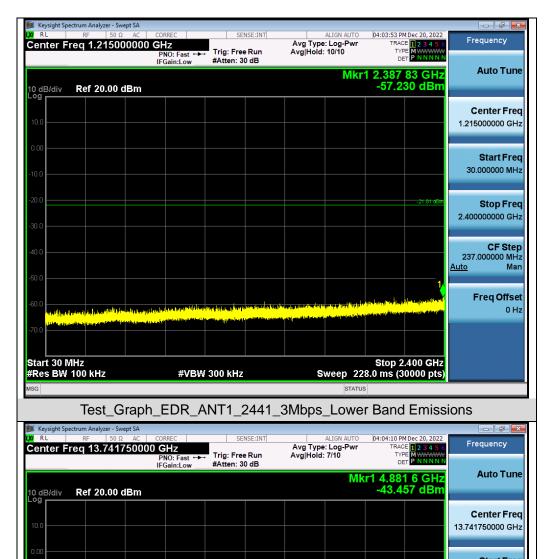
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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\_2441\_3Mbps\_Reference Level

**#VBW** 300 kHz

Center 2.441000 GHz #Res BW 100 kHz





Start Freq 2.483600000 GHz

Stop Freq 25.000000000 GHz

CF Step 2.251850000 GHz

Auto Man

Freq Offset 0 Hz

#Res BW 100 kHz #VBW 300 kHz Sweep 2.152 s (30000 pts)

Test\_Graph\_EDR\_ANT1\_2441\_3Mbps\_Higher Band Emissions

Freq Offset 0 Hz

Stop 2.400 GHz Sweep 228.0 ms (30000 pts)





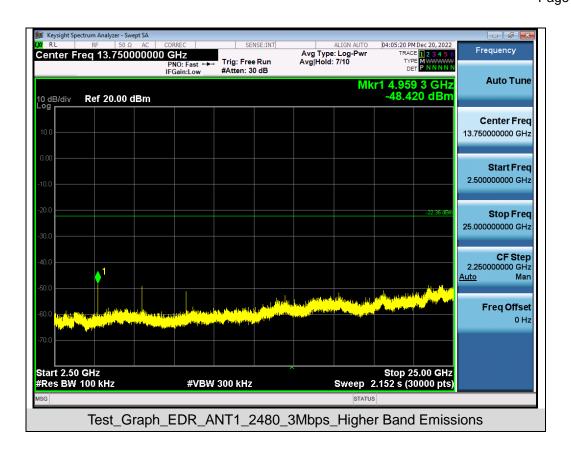
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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\_3Mbps\_Lower Band Emissions

#VBW 300 kHz

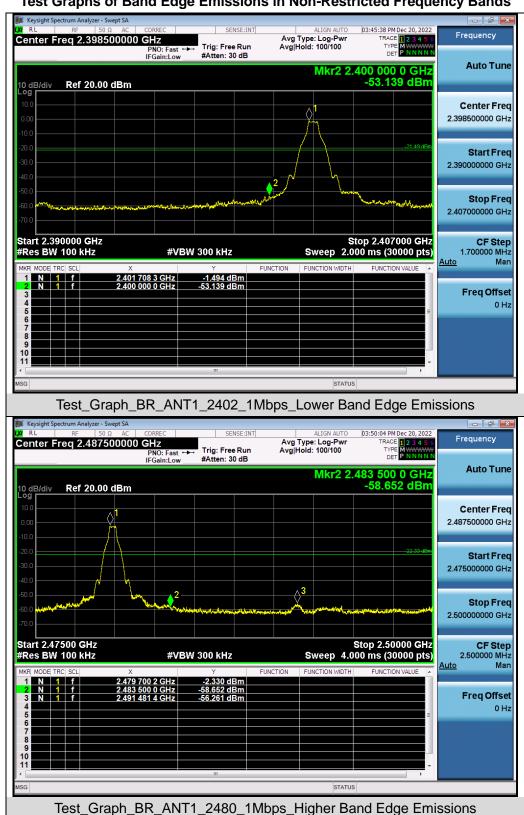
Start 30 MHz #Res BW 100 kHz





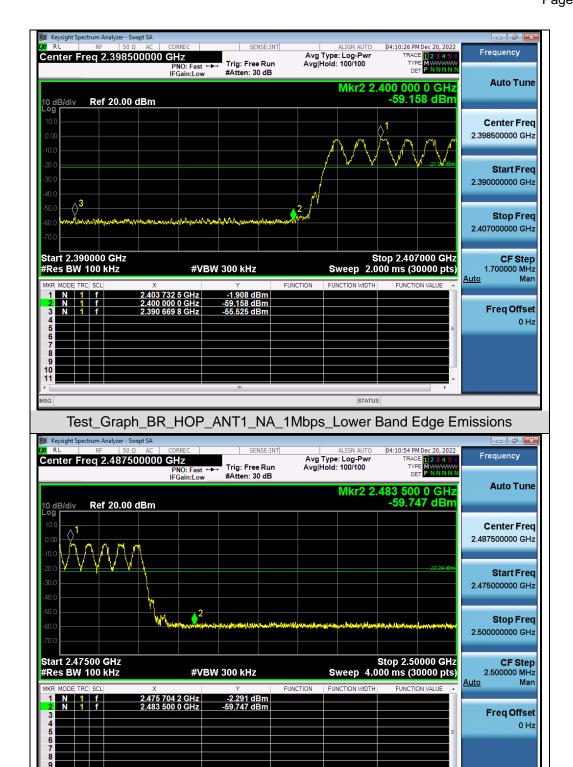


# Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



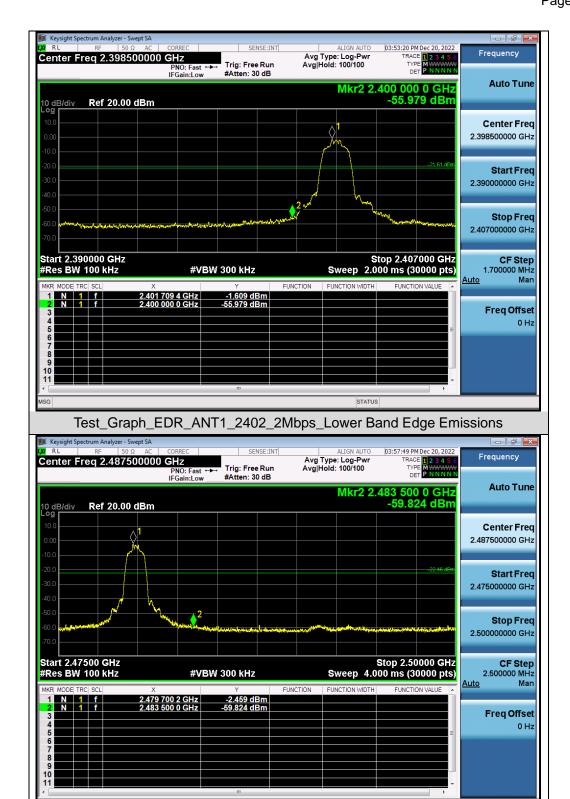
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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.





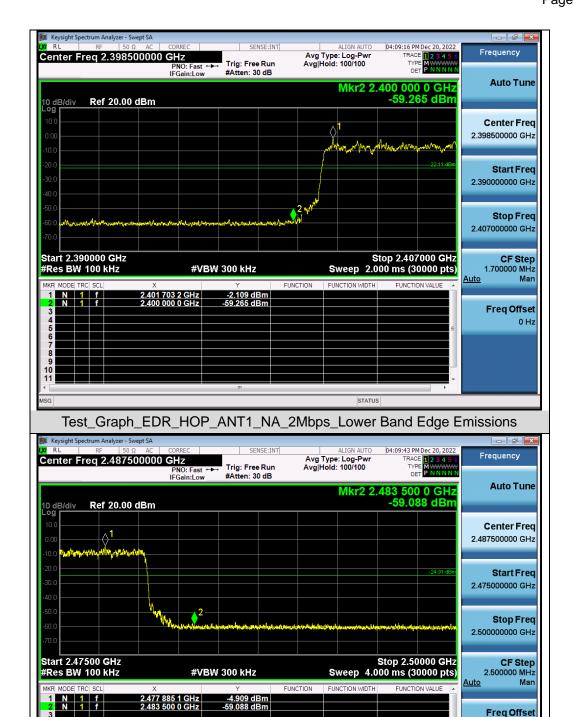
Test\_Graph\_BR\_HOP\_ANT1\_NA\_1Mbps\_Higher Band Edge Emissions





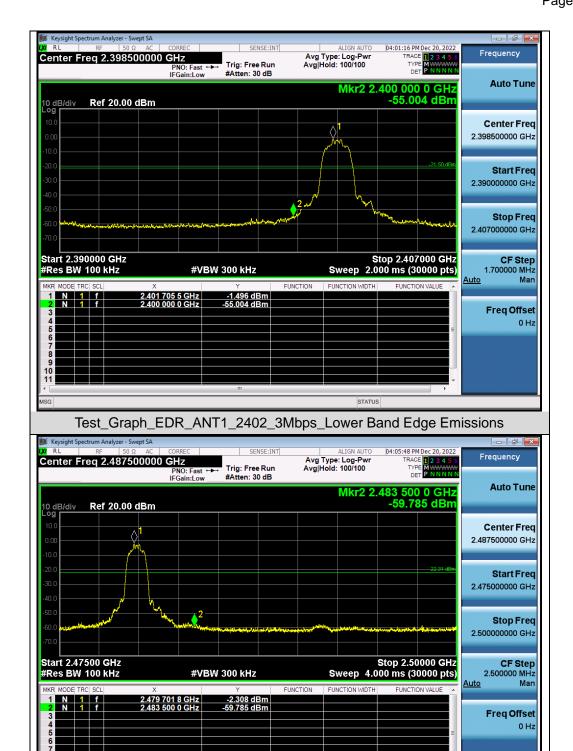
Test\_Graph\_EDR\_ANT1\_2480\_2Mbps\_Higher Band Edge Emissions





Test\_Graph\_EDR\_HOP\_ANT1\_NA\_2Mbps\_Higher Band Edge Emissions

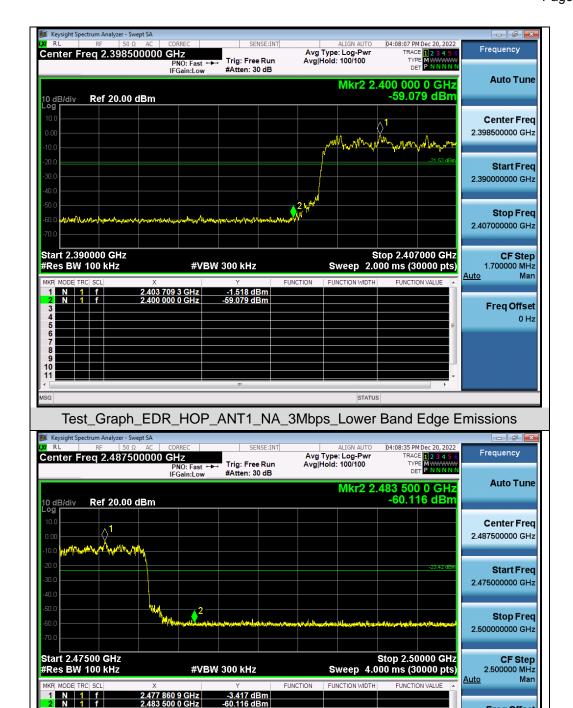




Test\_Graph\_EDR\_ANT1\_2480\_3Mbps\_Higher Band Edge Emissions

Freq Offset





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Test\_Graph\_EDR\_HOP\_ANT1\_NA\_3Mbps\_Higher Band Edge Emissions



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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.

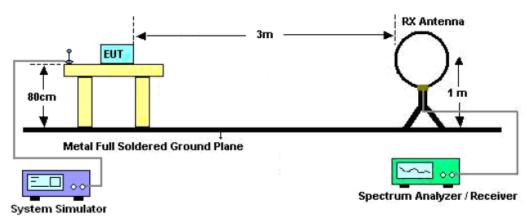
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz
Start ~Stop i requerity	1MHz/3MHz for Peak, 1MHz/3MHz for Average

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

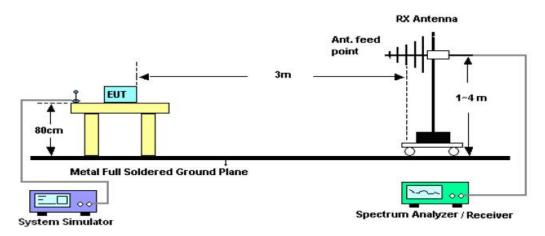


#### 10.2. TEST SETUP

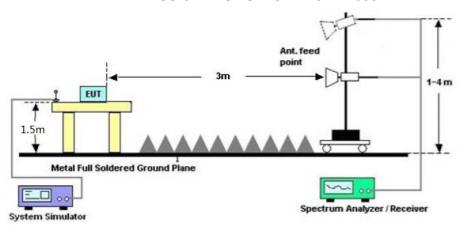
# Radiated Emission Test-Setup Frequency Below 30MHz



### 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

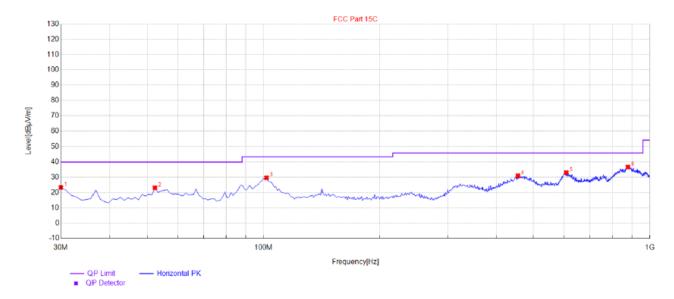
#### Radiated emission below 30MHz

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	Wireless Audio Receiver	Model Name	C57
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal

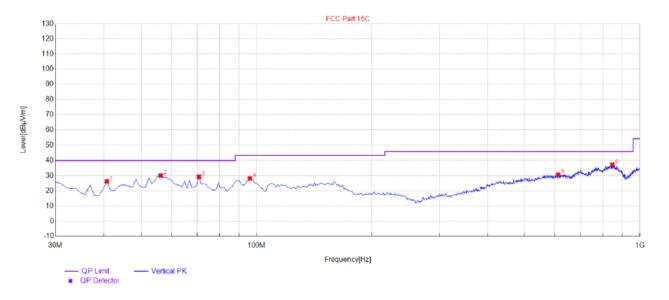


NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30	23.40	12.85	40.00	16.60	100	1	Horizontal
2	52.31	23.14	11.50	40.00	16.86	100	315	Horizontal
3	101.78	29.74	20.60	43.50	13.76	100	360	Horizontal
4	455.83	30.98	26.20	46.00	15.02	100	225	Horizontal
5	608.12	33.14	28.42	46.00	12.86	100	357	Horizontal
6	877.78	36.75	32.91	46.00	9.25	100	87	Horizontal

**RESULT: PASS** 



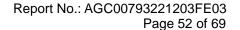
EUT	Wireless Audio Receiver	Model Name	C57
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.67	26.38	11.84	40.00	13.62	100	32	Vertical
2	56.19	30.14	14.30	40.00	9.86	100	3	Vertical
3	70.74	29.33	13.42	40.00	10.67	100	115	Vertical
4	95.96	28.21	12.73	43.50	15.29	100	0	Vertical
5	612	30.58	26.17	46.00	15.42	100	254	Vertical
6	846.74	37.34	32.33	46.00	8.66	100	313	Vertical

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

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





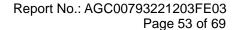
Radiated emission above 1GHz

EUT	Wireless Audio Receiver	Model Name	C57
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	44.58	0.08	44.66	74	-29.34	peak
4804.000	37.41	0.08	37.49	54	-16.51	AVG
7206.000	40.69	2.21	42.9	74	-31.1	peak
7206.000	32.74	2.21	34.95	54	-19.05	AVG
Remark:						
actor = Anter	nna Factor + Cable	e Loss – Pre-	amplifier.			

EUT	Wireless Audio Receiver	Model Name	C57
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tyree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.000	43.54	0.08	43.62	74	-30.38	peak
4804.000	36.66	0.08	36.74	54	-17.26	AVG
7206.000	40.82	2.21	43.03	74	-30.97	peak
7206.000	31.71	2.21	33.92	54	-20.08	AVG
emark:						
Remark:						
actor = Anter	nna Factor + Cable	e Loss – Pre-	amplifier.			





EUT	Wireless Audio Receiver	Model Name	C57
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 8	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4882.000	45.78	0.14	45.92	74	-28.08	peak
4882.000	38.95	0.14	39.09	54	-14.91	AVG
7323.000	41.41	2.36	43.77	74	-30.23	peak
7323.000	34.63	2.36	36.99	54	-17.01	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Wireless Audio Receiver	Model Name	C57
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 8	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4882.000	45.83	0.14	45.97	74	-28.03	peak
4882.000	37.59	0.14	37.73	54	-16.27	AVG
7323.000	40.41	2.36	42.77	74	-31.23	peak
7323.000	33.57	2.36	35.93	54	-18.07	AVG
Remark:	1		1			ı
actor = Anter	nna Factor + Cable	e Loss – Pre-	amplifier.			



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EUT	Wireless Audio Receiver	Model Name	C57
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	46.78	0.22	47	74	-27	peak
4960.000	38.41	0.22	38.63	54	-15.37	AVG
7440.000	41.56	2.64	44.2	74	-29.8	peak
7440.000	32.62	2.64	35.26	54	-18.74	AVG
Domark:						

Remark:

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

EUT	Wireless Audio Receiver	Model Name	C57
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	46.89	0.22	47.11	74	-26.89	peak
4960.000	38.65	0.22	38.87	54	-15.13	AVG
7440.000	40.74	2.64	43.38	74	-30.62	peak
7440.000	31.52	2.64	34.16	54	-19.84	AVG
Remark:						
Factor = Anter	nna Factor + Cable	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, Margin=Level-Limit.

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

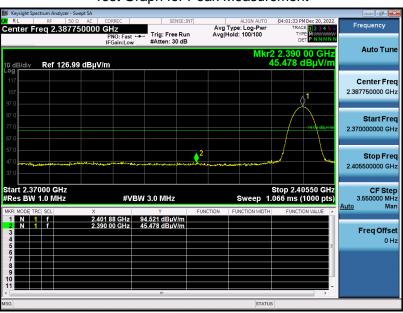
All test modes had been tested. The 8DPSK modulation is the worst case and recorded in the report.



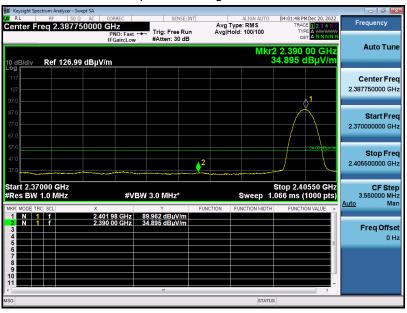
# Test result for band edge emission at restricted bands

EUT	Wireless Audio Receiver	Model Name	C57
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal

# Test Graph for Peak Measurement



Test Graph for Average Measurement



**RESULT: PASS** 

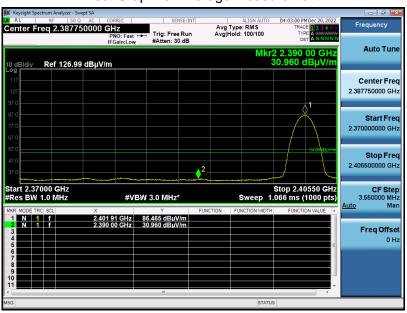


EUT	Wireless Audio Receiver	Model Name	C57
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

Test Graph for Peak Measurement



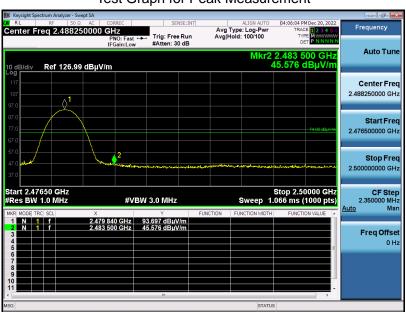
Test Graph for Average Measurement



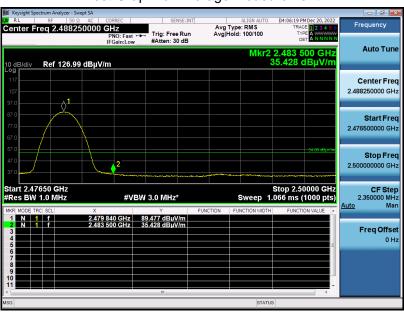


EUT	Wireless Audio Receiver	Model Name	C57
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Horizontal

Test Graph for Peak Measurement



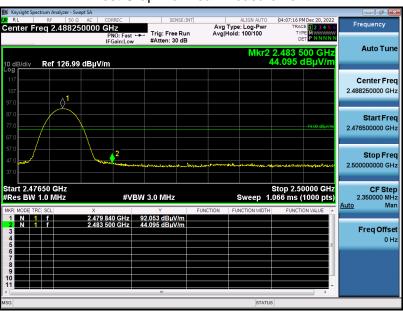
Test Graph for Average Measurement





EUT	Wireless Audio Receiver	Model Name	C57
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	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 8DPSK modulation is the worst case and recorded in the report.