

# **FCC Test Report**

Report No.: AGC12877221101FE03

**FCC ID** : 2A9B6TE-D01V

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION**: True Wireless Earbuds

**BRAND NAME** : AVIOT

**MODEL NAME** : TE-D01v

**APPLICANT** : Preseed Japan Corporation

**DATE OF ISSUE** : Nov. 15, 2022

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

**REPORT VERSION** : V1.0

Attestation of Global Continue (Shenzhen) Co., Ltd





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### REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov. 15, 2022	Valid	Initial Release



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### 1. VERIFICATION OF CONFORMITY

Applicant	Preseed Japan Corporation
Address	3F Kita-sando DT Bldg., 4-16-7 Sendagaya, Shibuya Ku, Tokyo, 151-0051, Japan
Manufacturer	Preseed Japan Corporation
Address	3F Kita-sando DT Bldg., 4-16-7 Sendagaya, Shibuya Ku, Tokyo, 151-0051, Japan
Factory	Dongguan Roker Electronics Co., Limited
Address	9 Floor, B Building Guanghui Building, Dongzheng Road, Changping Town, Dongguang City, Guangdong Province, China, 523570
Product Designation	True Wireless Earbuds
Brand Name	AVIOT
Test Model	TE-D01v
Date of receipt of test item	Nov. 08, 2022
Date of test	Nov. 08, 2022 to Nov. 14, 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.

Reviewed By

Calvin Liu
(Reviewer)

Approved By

Max Zhang
(Authorized Officer)

Nov. 15, 2022

Nov. 15, 2022



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# 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

The EUT is designed as "True Wireless Earbuds". 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	Left: 2.080dBm (Max) Right: 2.936dBm (Max)	
Bluetooth Version	V5.2	
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps	
Number of channels	79	
Hardware Version	V1.1	
Software Version	V20	
Antenna Designation	FPC Antenna (Comply with requirements of the FCC part 15.203)	
Antenna Gain	1.57dBi	
Power Supply	DC 3.7V by battery	
Note: EUT consists of left and right headphones, both of which are the same in SCH but different in PCB layout.		

Note: EUT consists of left and right headphones, both of which are the same in SCH but different in PCB layout. Both headphones were tested and the data was reflected in the report.

# 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: 2A9B6TE-D01V** filing to comply with the FCC PART 15.247 requirements.

### 2.7. TEST METHODOLOGY

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

#### 2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

#### 2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

#### 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	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:

EUT	

# **5.2. EQUIPMENT USED IN TESTED SYSTEM**

Item	Equipment	Model No.	ID or Specification	Remark
1	True Wireless Earbuds	TE-D01v	2A9B6TE-D01V	EUT
2	Control Box	USB-TTL	N/A	AE
3	Xiaomi phone	Mi 10	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	Not applicable

Note: The BT function cannot transmit when charging.



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# 6. TEST FACILITY

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

### **TEST EQUIPMENT OF RADIATED EMISSION TEST**

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Mar. 28, 2022	Mar. 27, 2023
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Nov. 17, 2021	Nov. 16, 2022
Signal Analyzer	Aglient	N9020A	MY52090123	Aug. 04, 2022	Aug. 03, 2023
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2022	Mar. 22, 2024
Attenuator	ZHINAN	E-002	N/A	Aug. 03, 2022	Aug. 02, 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	Aug. 03, 2022	Aug. 02, 2024
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

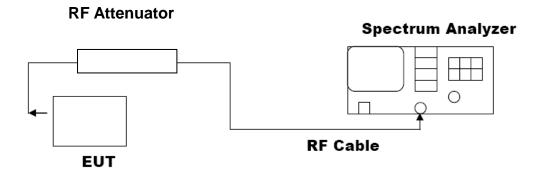
For peak power test:

- 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**





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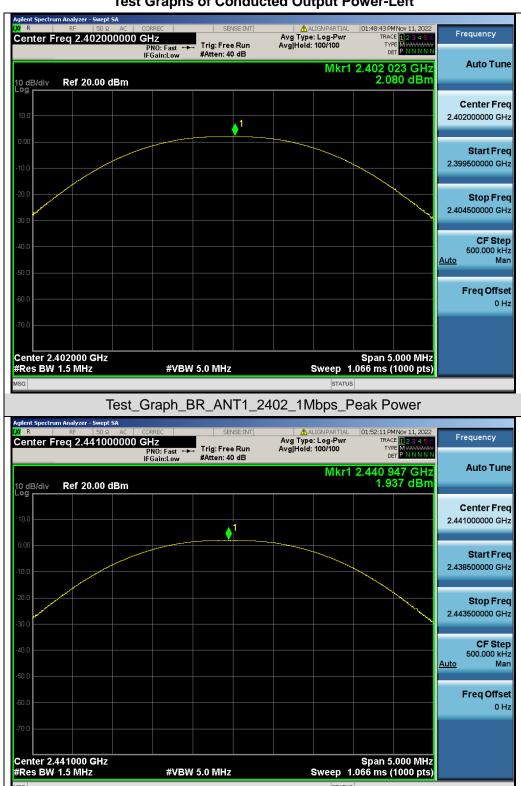
### 7.3. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power-Left				
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
GFSK	2402	2.080	≤21	Pass
	2441	1.937	≤21	Pass
	2480	1.570	≤21	Pass
π /4-DQPSK	2402	2.035	≤21	Pass
	2441	1.924	≤21	Pass
	2480	1.566	≤21	Pass
8DPSK	2402	2.060	≤21	Pass
	2441	1.955	≤21	Pass
	2480	1.566	≤21	Pass

Test Data of Conducted Output Power-Right				
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
GFSK	2402	2.925	≤21	Pass
	2441	2.786	≤21	Pass
	2480	2.418	≤21	Pass
π /4-DQPSK	2402	2.936	≤21	Pass
	2441	2.787	≤21	Pass
	2480	2.415	≤21	Pass
8DPSK	2402	2.932	≤21	Pass
	2441	2.804	≤21	Pass
	2480	2.456	≤21	Pass



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



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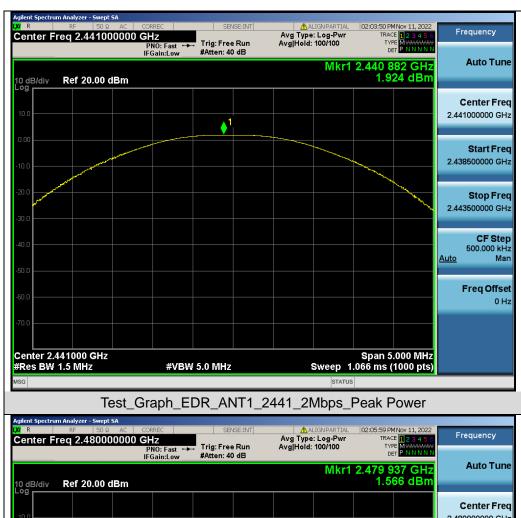
Test\_Graph\_BR\_ANT1\_2441\_1Mbps\_Peak Power











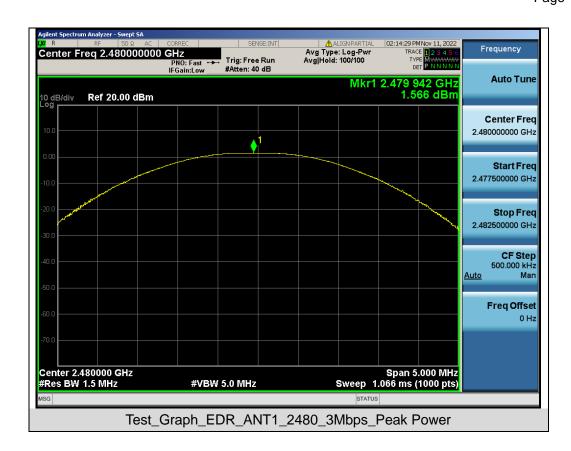
| Start Freq | 2.47750000 GHz | Stop Freq | 2.482500000 GHz | Stop Freq | 3.482500000 GHz | Stop





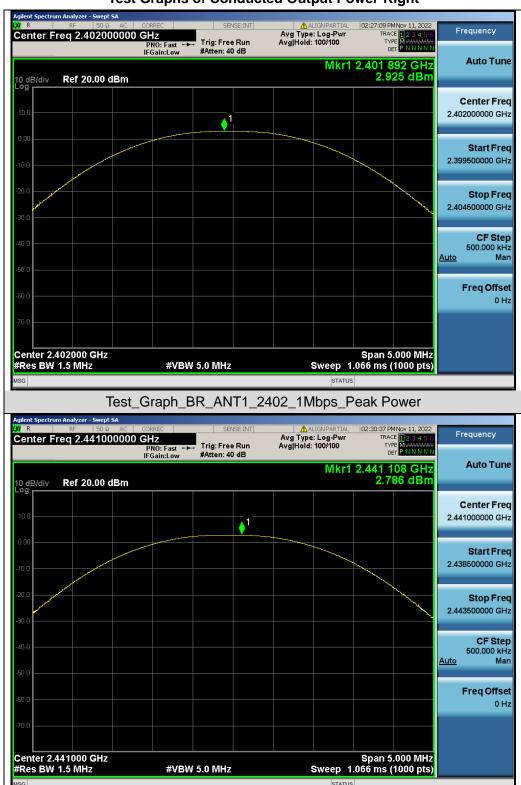








# **Test Graphs of Conducted Output Power-Right**



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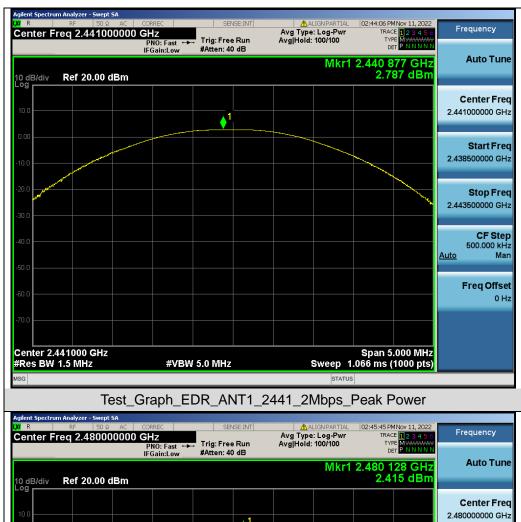
Test\_Graph\_BR\_ANT1\_2441\_1Mbps\_Peak Power









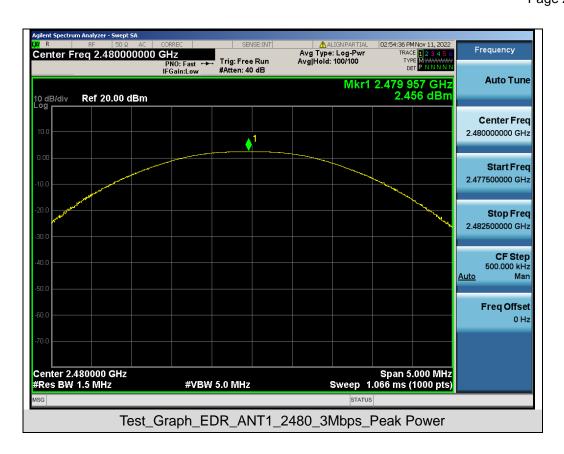














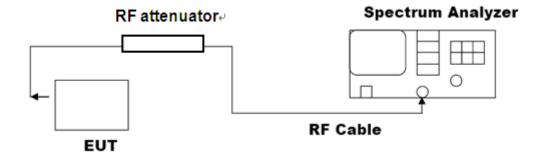
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# 8. 20DB BANDWIDTH

# **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)



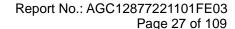


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### 8.3. LIMITS AND MEASUREMENT RESULTS

Test Data of Occupied Bandwidth and -20dB Bandwidth-Left					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-20dB Bandwidth (MHz)	Limits	Pass or Fail
GFSK	2402	0.885	0.962	N/A	Pass
	2441	0.884	0.960	N/A	Pass
	2480	0.888	0.960	N/A	Pass
π /4-DQPSK	2402	1.150	1.232	N/A	Pass
	2441	1.150	1.227	N/A	Pass
	2480	1.151	1.229	N/A	Pass
8DPSK	2402	1.153	1.267	N/A	Pass
	2441	1.153	1.266	N/A	Pass
	2480	1.155	1.266	N/A	Pass

Test Data of Occupied Bandwidth and -20dB Bandwidth-Right					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-20dB Bandwidth (MHz)	Limits	Pass or Fail
GFSK	2402	0.888	0.961	N/A	Pass
	2441	0.887	0.961	N/A	Pass
	2480	0.884	0.961	N/A	Pass
π /4-DQPSK	2402	1.151	1.228	N/A	Pass
	2441	1.152	1.228	N/A	Pass
	2480	1.152	1.229	N/A	Pass
8DPSK	2402	1.152	1.268	N/A	Pass
	2441	1.156	1.267	N/A	Pass
	2480	1.156	1.266	N/A	Pass



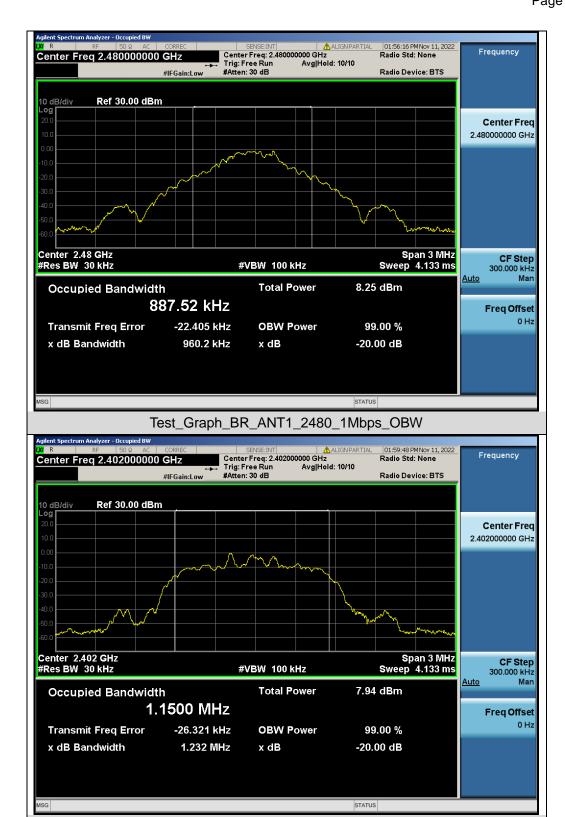


# Test Graphs of Occupied Bandwidth and -20 Bandwidth-Left



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Test\_Graph\_EDR\_ANT1\_2402\_2Mbps\_OBW

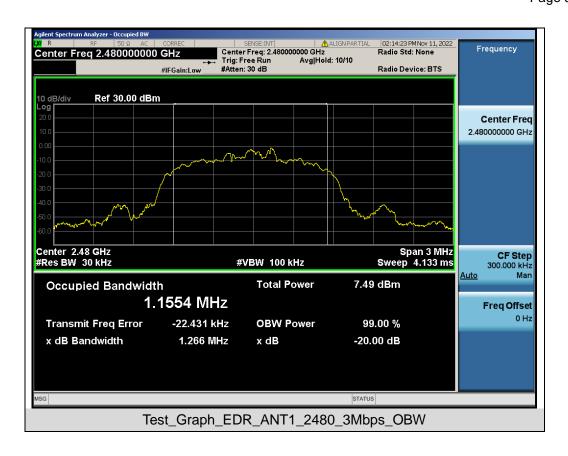


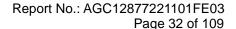










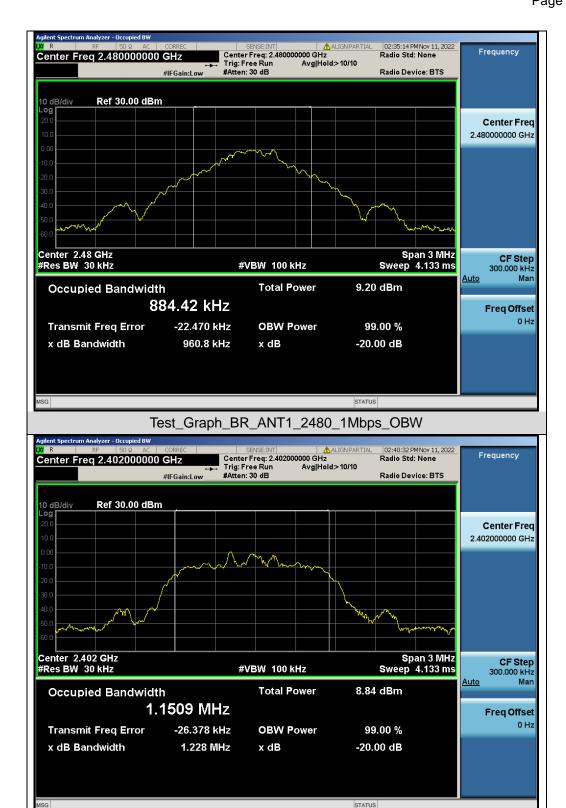




# Test Graphs of Occupied Bandwidth and -20 Bandwidth-Right







Test\_Graph\_EDR\_ANT1\_2402\_2Mbps\_OBW





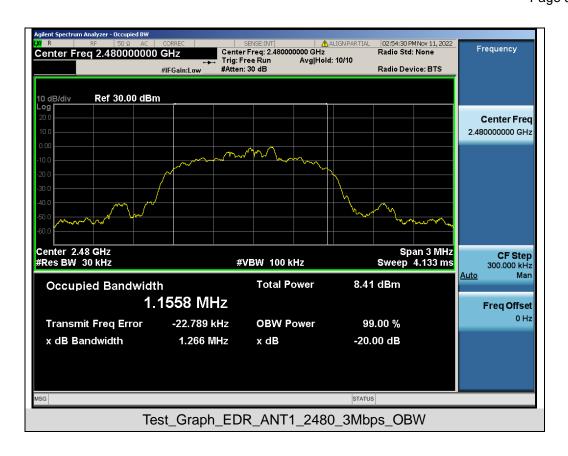
Test\_Graph\_EDR\_ANT1\_2480\_2Mbps\_OBW





Test\_Graph\_EDR\_ANT1\_2441\_3Mbps\_OBW







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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

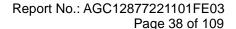
#### 9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

# 9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	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))		

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# Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands-Left



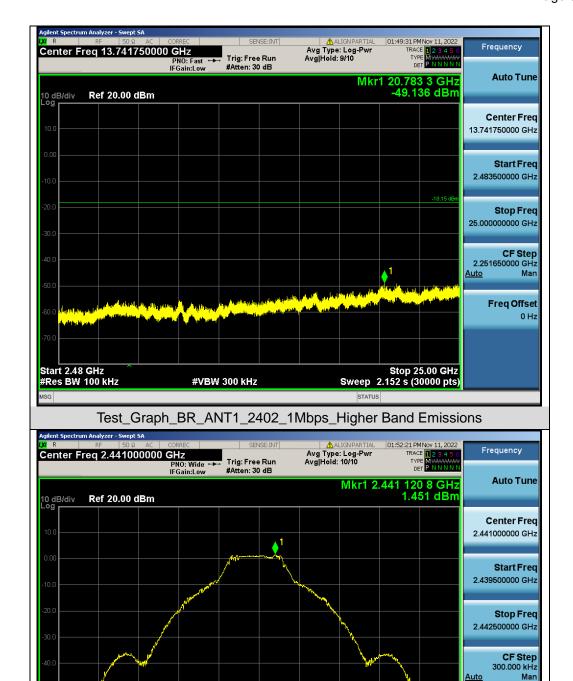
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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\_2402\_1Mbps\_Lower Band Emissions

Freq Offset

Span 3.000 MHz Sweep 2.000 ms (30000 pts)





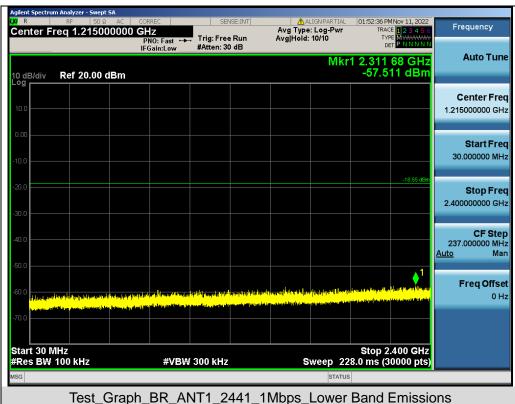
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Test\_Graph\_BR\_ANT1\_2441\_1Mbps\_Reference Level

#VBW 300 kHz

Center 2.441000 GHz #Res BW 100 kHz







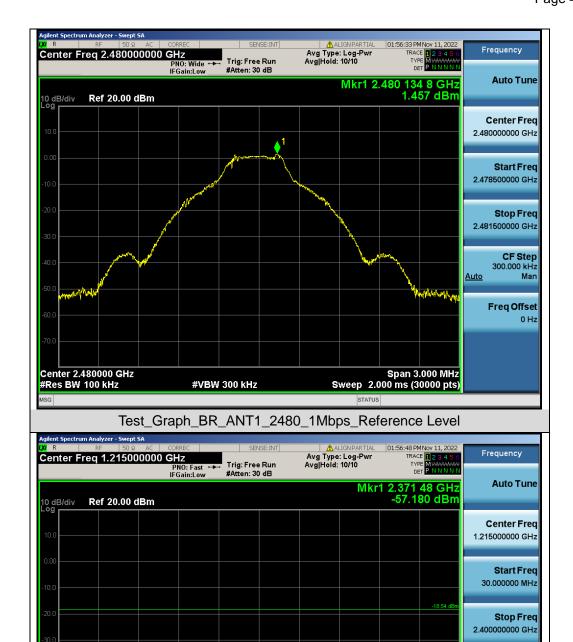
CF Step 237.000000 MHz to Man

Freq Offset

Auto

Stop 2.400 GHz Sweep 228.0 ms (30000 pts)





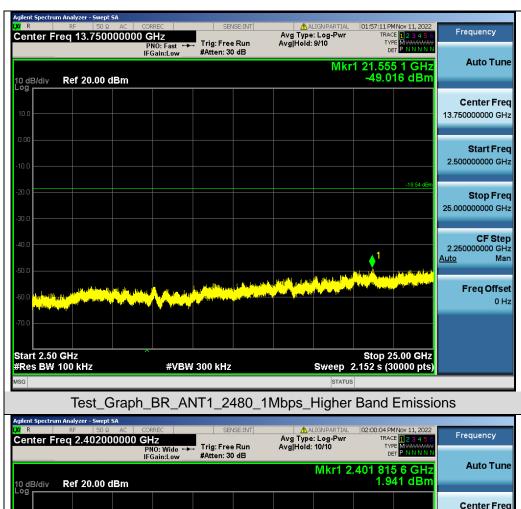
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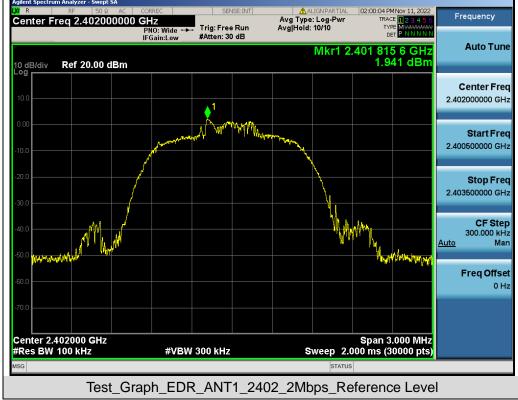
Test\_Graph\_BR\_ANT1\_2480\_1Mbps\_Lower Band Emissions

#VBW 300 kHz

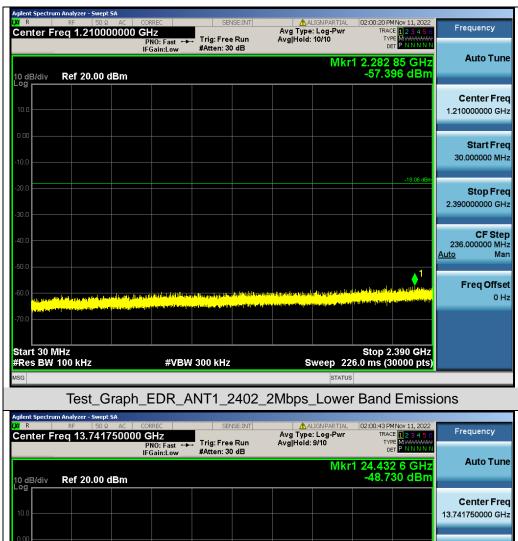
Start 30 MHz #Res BW 100 kHz











Stop Freq 2.400000000 GHz

CF Step 237.000000 MHz to Man

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

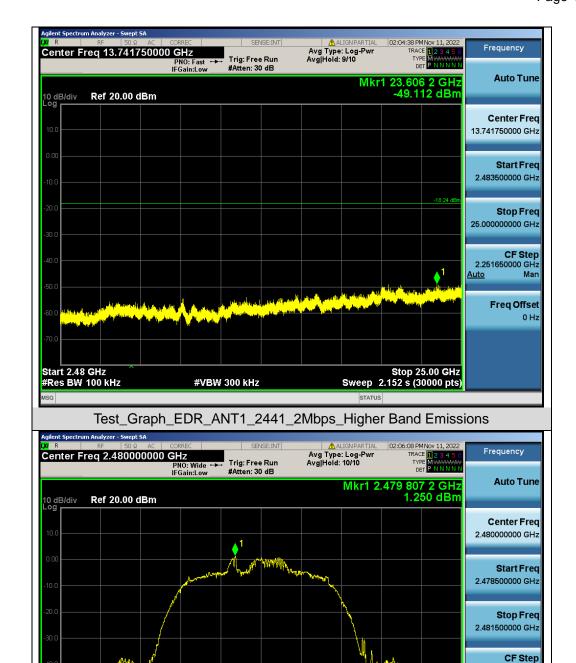
300.000 kHz Man

Freq Offset

Auto

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

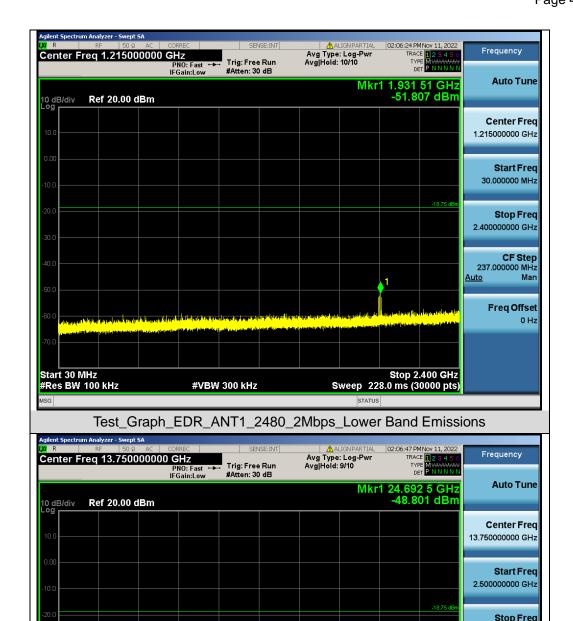
25.000000000 GHz

2.250000000 GHz uto Man

> Freq Offset 0 Hz

Stop 25.00 GHz Sweep 2.152 s (30000 pts)





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

#VBW 300 kHz

Start 2.50 GHz #Res BW 100 kHz





Center Freq
1.210000000 GHz

Start Freq
30.000000 MHz

Stop Freq
2.390000000 GHz

CF Step
236.000000 MHz

Auto Man

Freq Offset
0 Hz

#Res BW 100 kHz #VBW 300 kHz Sweep 226.0 ms (300000 pts)

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

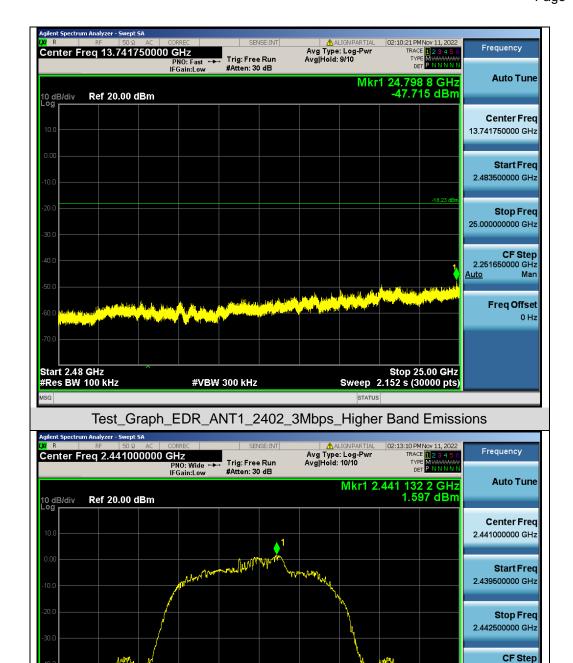
300.000 kHz Man

Freq Offset

Auto

Span 3.000 MHz Sweep 2.000 ms (30000 pts)





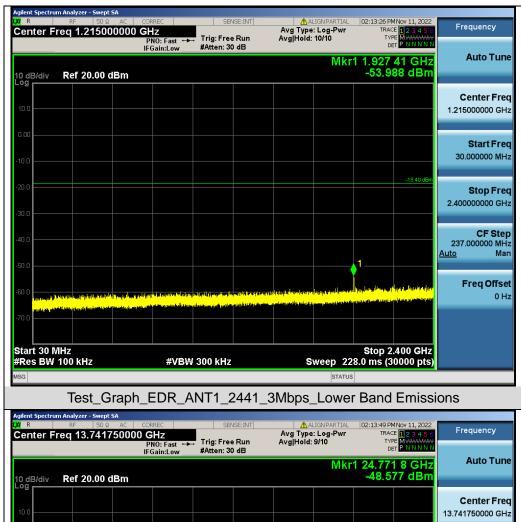
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Test\_Graph\_EDR\_ANT1\_2441\_3Mbps\_Reference Level

#VBW 300 kHz

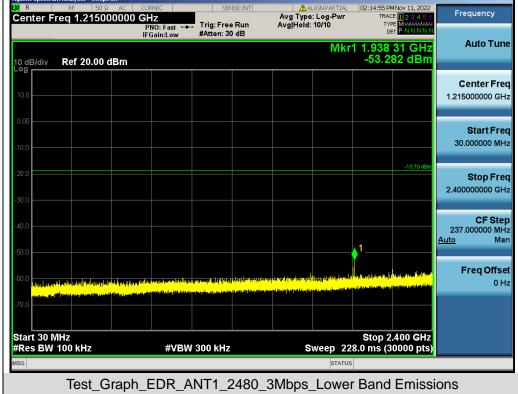
Center 2.441000 GHz #Res BW 100 kHz



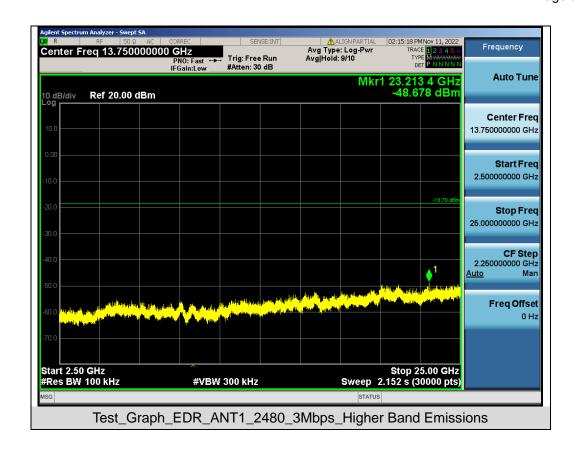


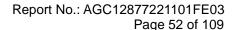






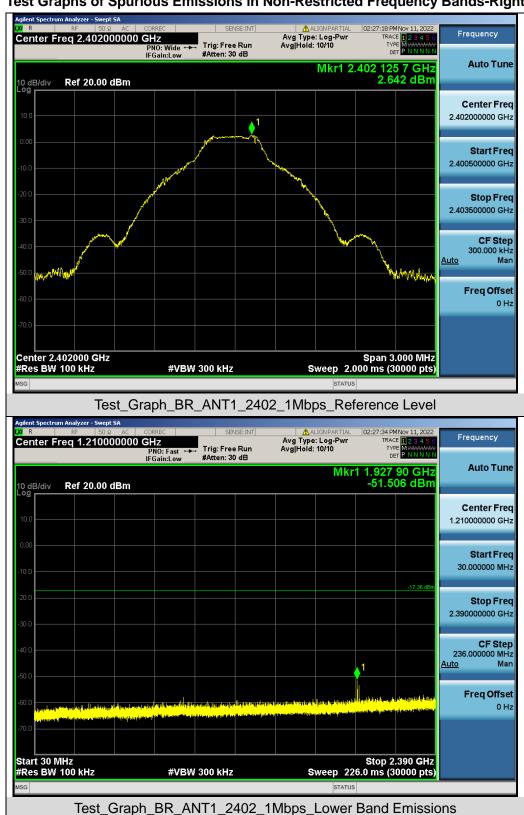








#### Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands-Right



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**Stop Freq** 2.442500000 GHz

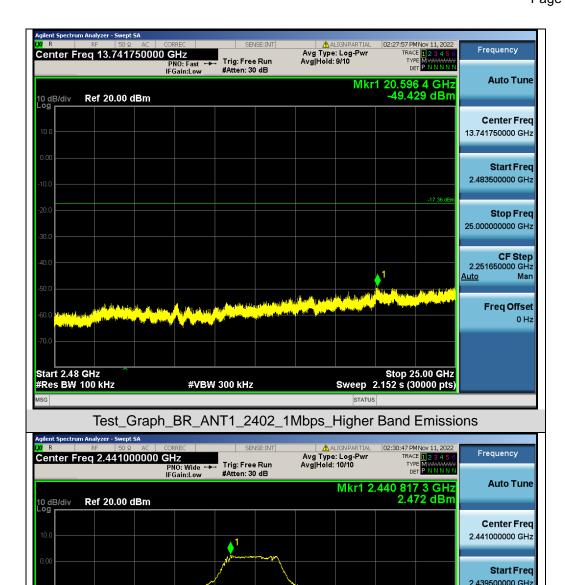
CF Step 300.000 kHz Man

Freq Offset

Auto

Span 3.000 MHz Sweep 2.000 ms (30000 pts)





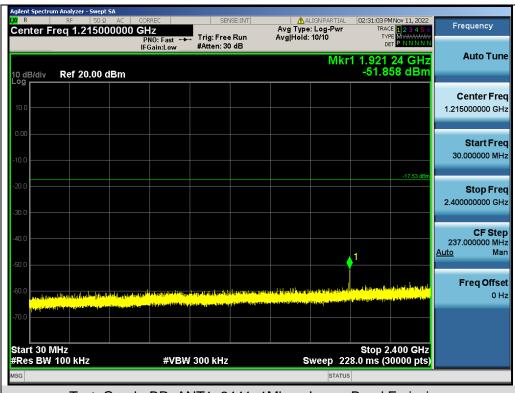
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Test\_Graph\_BR\_ANT1\_2441\_1Mbps\_Reference Level

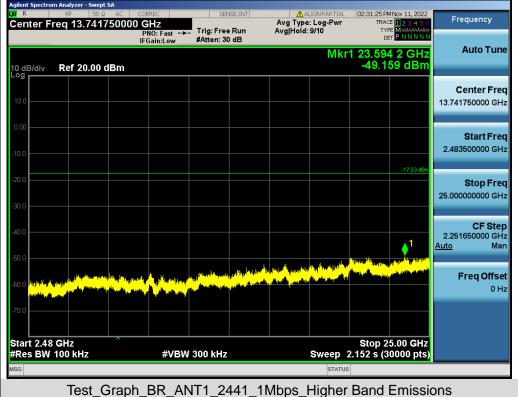
#VBW 300 kHz

Center 2.441000 GHz #Res BW 100 kHz





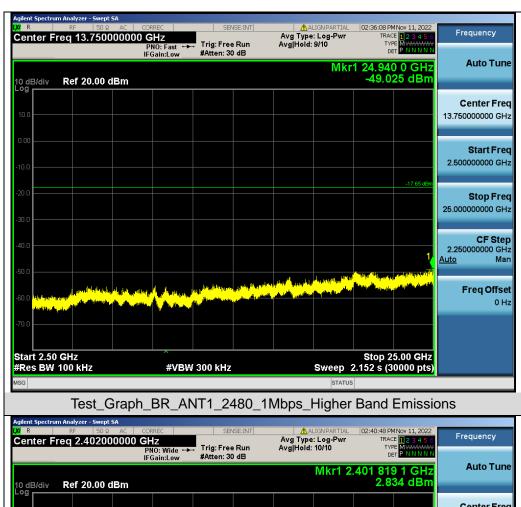
Test\_Graph\_BR\_ANT1\_2441\_1Mbps\_Lower Band Emissions











Stop Freq 25.000000000 GHz

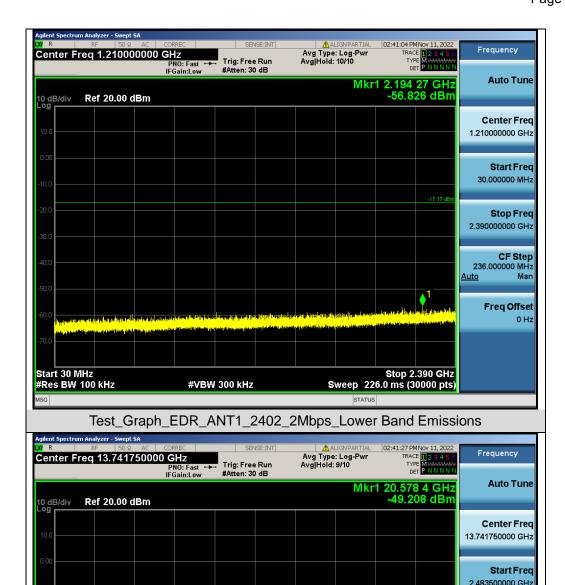
Man

**CF Step** 2.251650000 GHz

Freq Offset 0 Hz

Stop 25.00 GHz Sweep 2.152 s (30000 pts)





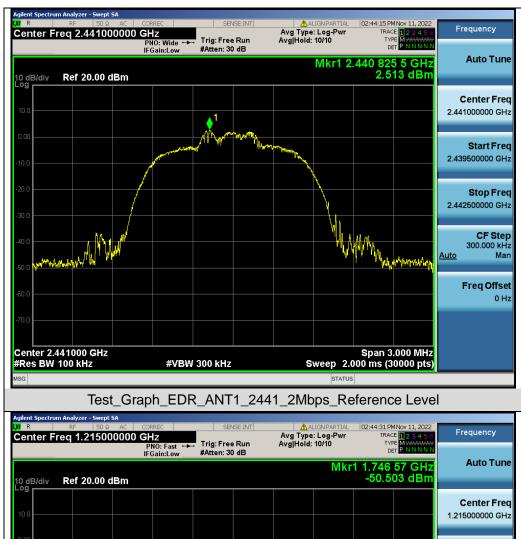
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Test\_Graph\_EDR\_ANT1\_2402\_2Mbps\_Higher Band Emissions

#VBW 300 kHz

Start 2.48 GHz #Res BW 100 kHz





Center Freq
1.215000000 GHz

Start Freq
30.000000 MHz

Stop Freq
2.400000000 GHz

CF Step
237.00000 MHz

CF Step
237.00000 MHz

Man

Freq Offset
0 Hz

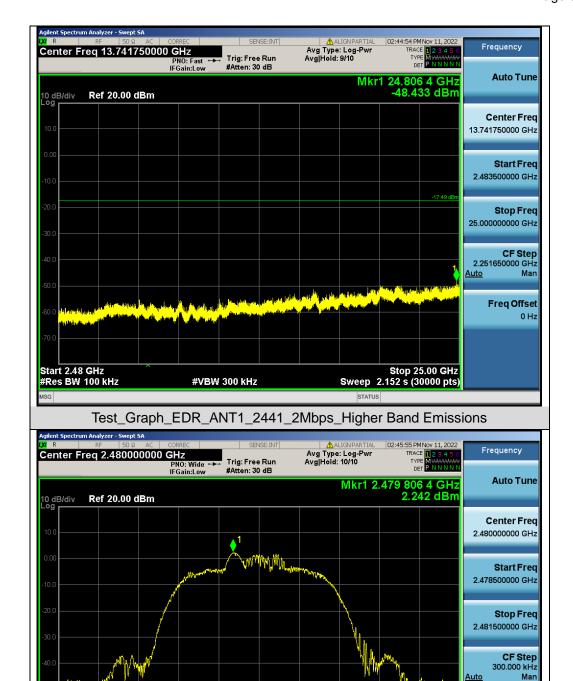
Start 30 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 228.0 ms (30000 pts)

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

Freq Offset

Span 3.000 MHz Sweep 2.000 ms (30000 pts)





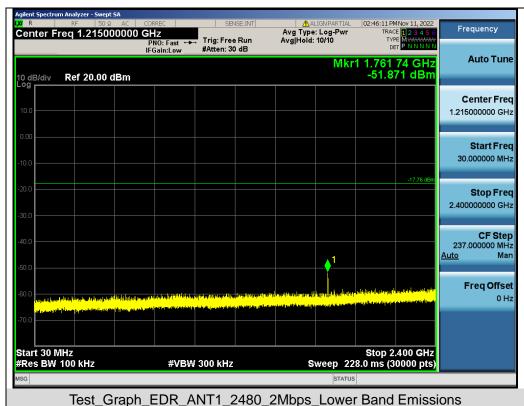
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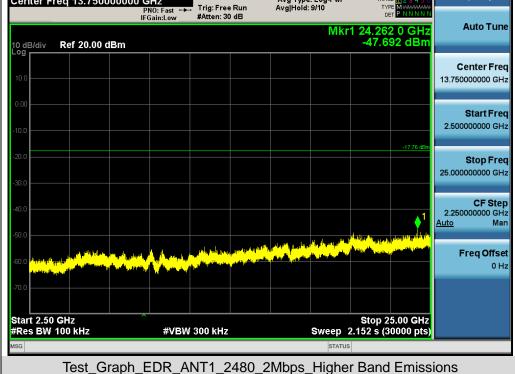
Test\_Graph\_EDR\_ANT1\_2480\_2Mbps\_Reference Level

#VBW 300 kHz

Center 2.480000 GHz #Res BW 100 kHz

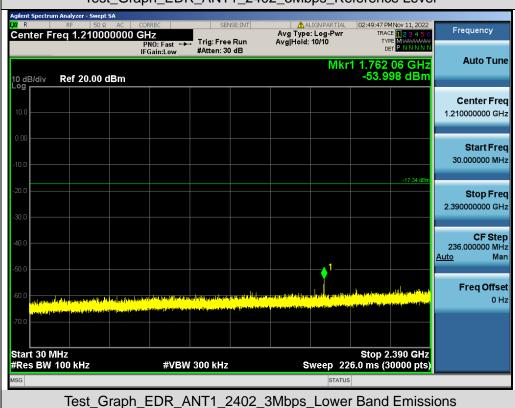




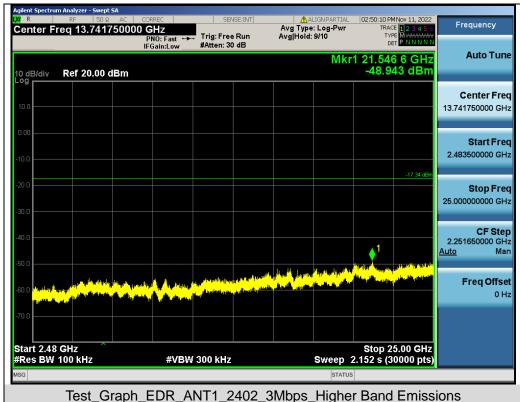






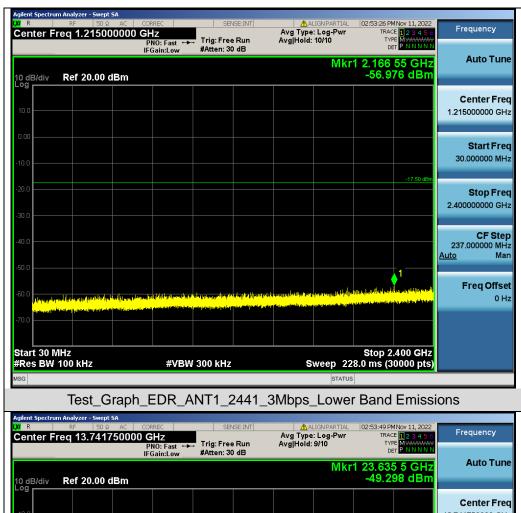












| Center Freq | 13.741750000 GHz | 13.7417500000 GHz | 13.7417500000 GHz | 17.50 dec | 17.

Stop Freq 2.400000000 GHz

CF Step 237.000000 MHz to Man

Freq Offset

Auto

Stop 2.400 GHz Sweep 228.0 ms (30000 pts)





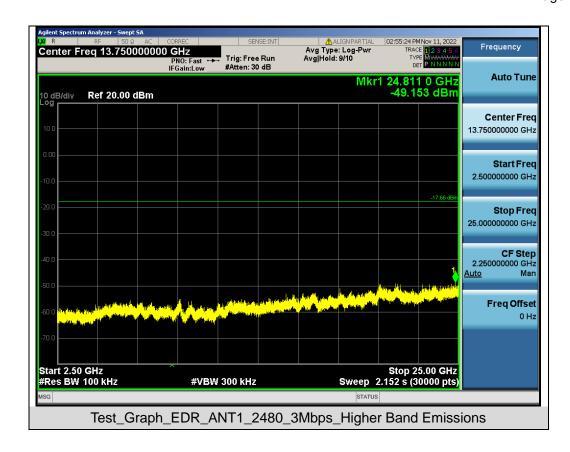
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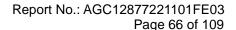
Test\_Graph\_EDR\_ANT1\_2480\_3Mbps\_Lower Band Emissions

#VBW 300 kHz

Start 30 MHz #Res BW 100 kHz

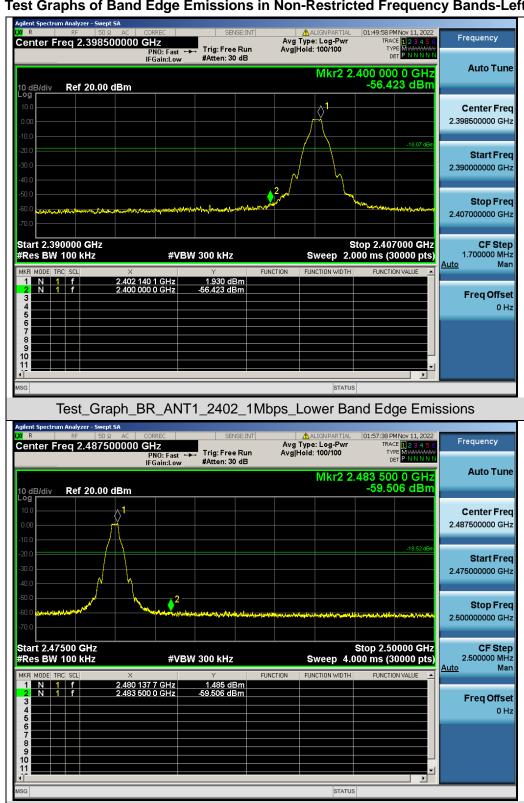








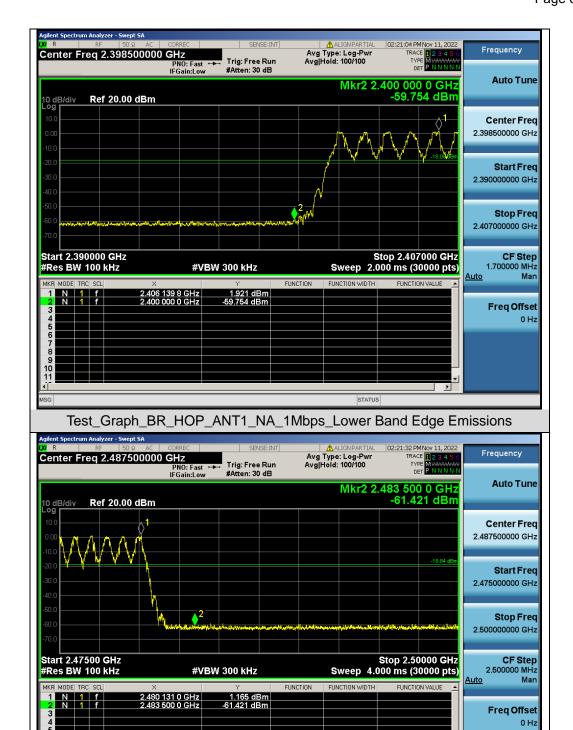
# Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands-Left



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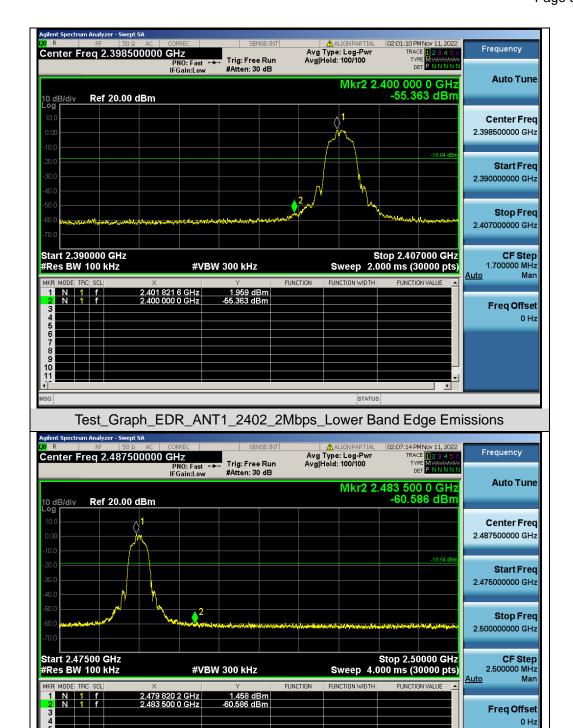
Test\_Graph\_BR\_ANT1\_2480\_1Mbps\_Higher Band Edge Emissions





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





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





Start Freq 2 475000000 GHz Stop Freq 2.500000000 GHz Start 2.47500 GHz Stop 2.50000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 4.000 ms (30000 pts) 2.500000 MHz Auto Man FUNCTION FUNCTION WIDTH Freq Offset Test\_Graph\_EDR\_HOP\_ANT1\_NA\_2Mbps\_Higher Band Edge Emissions

Stop Freq 2.500000000 GHz

2.500000 MHz

Freq Offset

Man

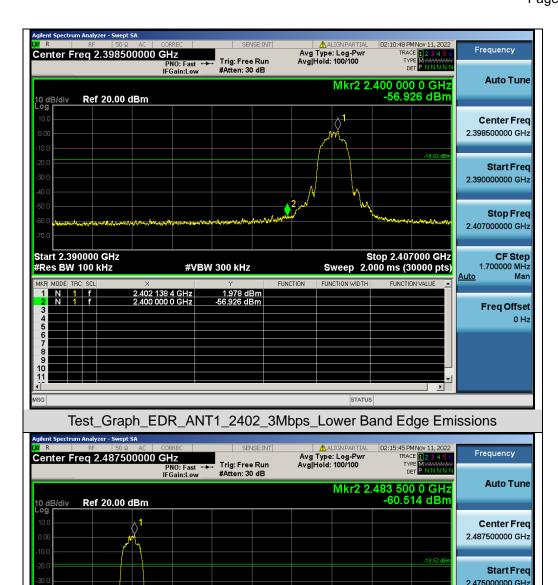
Auto

Stop 2.50000 GHz

Sweep 4.000 ms (30000 pts)

FUNCTION WIDTH





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#VBW 300 kHz

1.480 dBm -60.514 dBm FUNCTION

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

Start 2.47500 GHz

#Res BW 100 kHz