FCC Test Report

Report No.: AGC13454230612FE03

FCC ID	:	2A94QET-BH036
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	True Wireless Earbuds
BRAND NAME	:	evatronic
MODEL NAME	:	ET-BH036
APPLICANT	:	Shenzhen Aspiron Technology Company Limited
DATE OF ISSUE	:	Jul. 18, 2023
STANDARD(S)	:	FCC Part 15.247
REPORT VERSION	:	V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jul. 18, 2023	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Aspiron Technology Company Limited
Address	Room 2803B, Building C, Galaxy World Phase Ⅱ, Minle Community, Minzhi Street, Longhua District, Shenzhen, Guangdong, China
Manufacturer	Shenzhen Aspiron Technology Company Limited
Address	Room 2803B, Building C, Galaxy World Phase Ⅱ, Minle Community, Minzhi Street, Longhua District, Shenzhen, Guangdong, China
Factory	Shenzhen Zowee Smart Manufacturing Co., Ltd.
Address	No. 149 the 2nd Industrial Ave., Tangxia Chong, Yanluo Subdistrict, Baoan District, Shenzhen, the P.R. China
Product Designation	True Wireless Earbuds
Brand Name	evatronic
Test Model	ET-BH036
Date of receipt of test item	Jun. 16, 2023
Date of test	Jun. 16, 2023 to Jul. 18, 2023
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	Alan Duan (Project Engineer)	Jul. 18, 2023
Reviewed By	Calvin Liu (Reviewer)	Jul. 18, 2023
Approved By	Max Zhang (Authorized Officer)	Jul. 18, 2023

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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	2.402GHz to 2.480GHz
RF Output Power	Left: 2.290dBm (Max) Right: -3.359dBm (Max)
Bluetooth Version	V5.2
Modulation	BR☒GFSK, EDR☒π /4-DQPSK, ☒8DPSK BLE☐GFSK 1Mbps ☐GFSK 2Mbps
Number of channels	79 Channels
Hardware Version	V2.0
Software Version	V17
Antenna Designation	Ceramic Antenna (Comply with requirements of the FCC part 15.203)
Antenna Gain	Left: -2.5dBi Right: -1.31dBi
Power Supply	DC 3.8V by battery
Note: The EUT comprises left and right channel headsets, both are the same except for the antenna gain, the RF output power of each headset has been tested and recorded in the report. For other test items, the left headset has been tested and recorded as the worst case in this report.	

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
2402~2480MHz	0	2402 MHz
	1	2403 MHz
	:	:
	38	2440 MHz
	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: 2A94QET-BH036** 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 = ±2.9 dB
Uncertainty of Radiated Emission below 1GHz	U_c = ±3.9 dB
Uncertainty of Radiated Emission above 1GHz	U_c = ±4.9 dB
Uncertainty of total RF power, conducted	U_c = ±0.8 dB
Uncertainty of RF power density, conducted	U_c = ±2.6 dB
Uncertainty of spurious emissions, conducted	U_c = ±2.7 %
Uncertainty of Occupied Channel Bandwidth	U_c = ±2 %

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4. DESCRIPTION OF TEST MODES

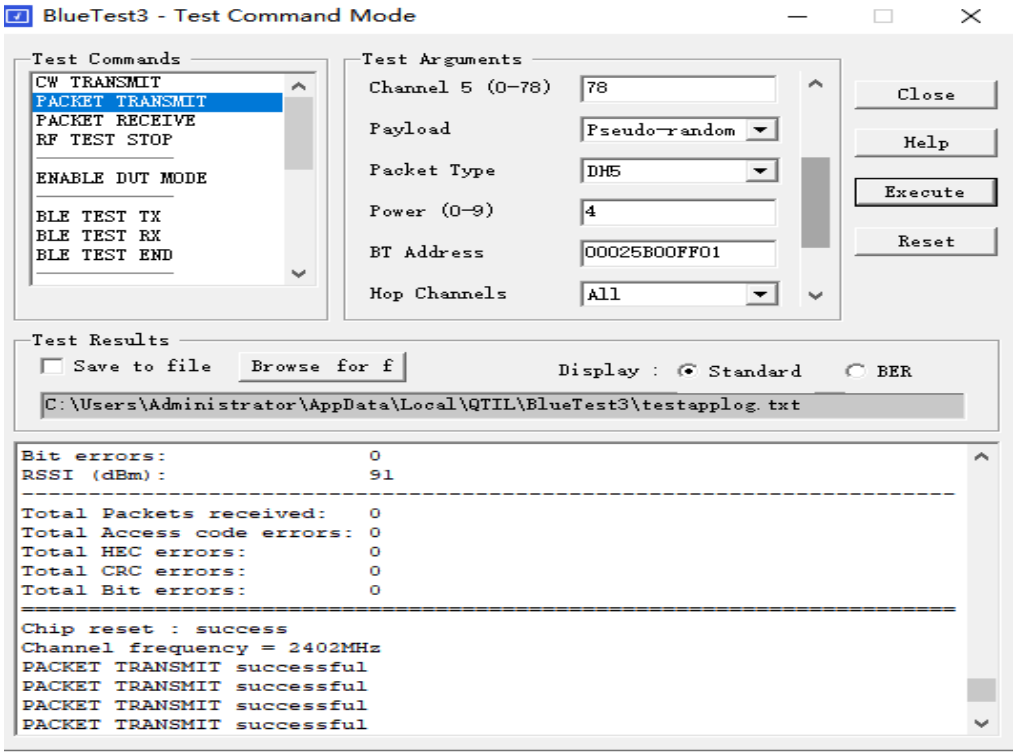
NO.	TEST MODE DESCRIPTION
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel π/4-DQPSK
5	Middle channel π/4-DQPSK
6	High channel π/4-DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
9	High channel 8DPSK
10	Hopping mode GFSK
11	Hopping mode π/4-DQPSK
12	Hopping mode 8DPSK

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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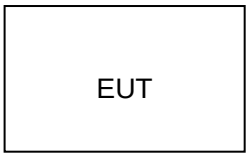
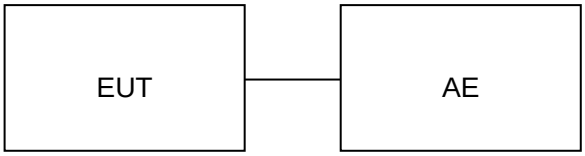
5. SYSTEM TEST CONFIGURATION

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	True Wireless Earbuds	ET-BH036	2A94QET-BH036	EUT
2	Control Box	USB TO TTL	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	100034	Aug. 03, 2022	Aug. 02, 2023
Wideband Antenna	SCHWARZBECK	VULB9168	D69250	May 11, 2022	May 10, 2025
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Aug. 04, 2022	Aug. 03, 2023
Signal Analyzer	Aglient	N9020A	MY52090123	Aug. 04, 2022	Aug. 03, 2023
2.4GHz Filter	EM Electronics	N/A	N/A	Mar. 18, 2022	Mar. 19, 2024
Attenuator	ZHINAN	E-002	N/A	Aug. 04, 2022	Aug. 03, 2024
Horn Antenna	SCHWARZBEC	BBHA9170	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	3117	00154520	Sep. 06, 2021	Sep. 05, 2023
Preamplifer	ETS	3117-PA	00246148	Aug. 04, 2022	Aug. 03, 2024
Test software	FARA	V.RA-03A	N/A	N/A	N/A

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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

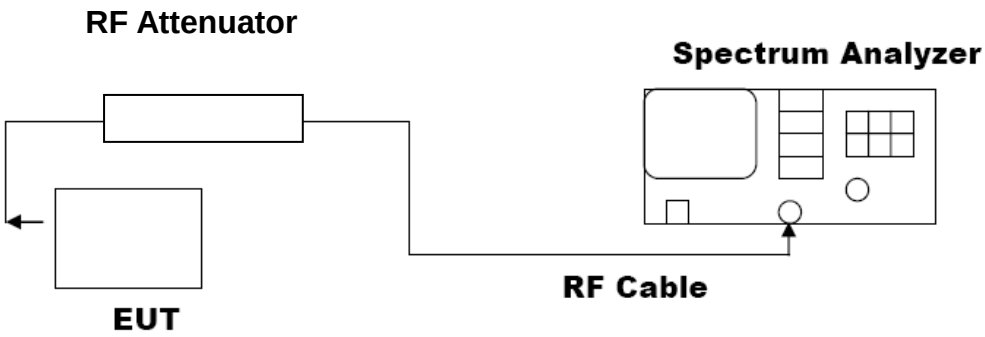
For peak power test:

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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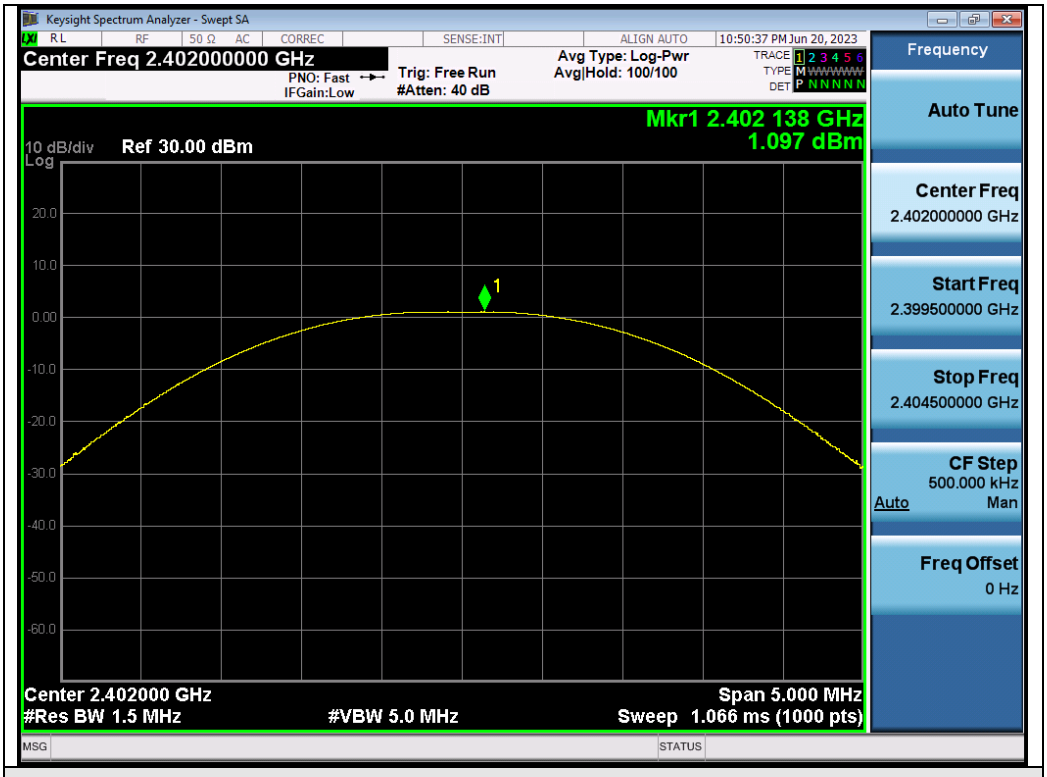
7.3. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power (Left)				
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
GFSK	2402	1.097	≤21	Pass
	2441	1.747	≤21	Pass
	2480	2.290	≤21	Pass
π /4-DQPSK	2402	-0.946	≤21	Pass
	2441	-0.300	≤21	Pass
	2480	0.292	≤21	Pass
8DPSK	2402	-0.414	≤21	Pass
	2441	0.234	≤21	Pass
	2480	0.797	≤21	Pass

Test Graphs of Conducted Output Power



Test_Graph_BR_ANT1_2402_1Mbps_Peak Power

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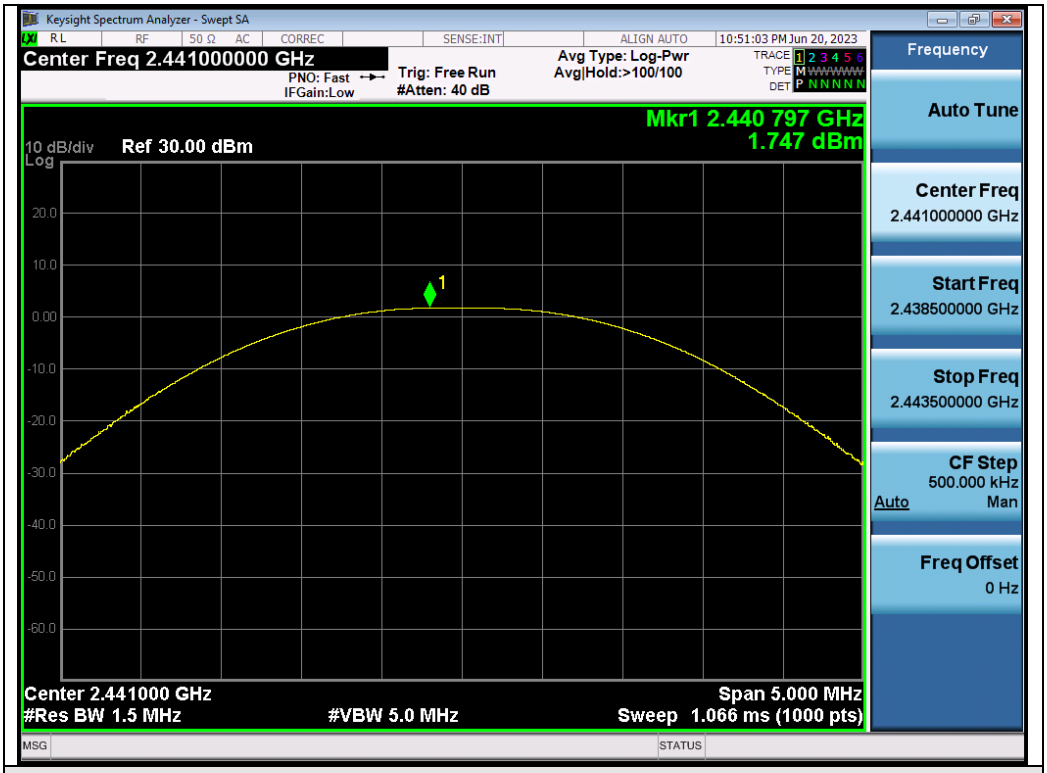
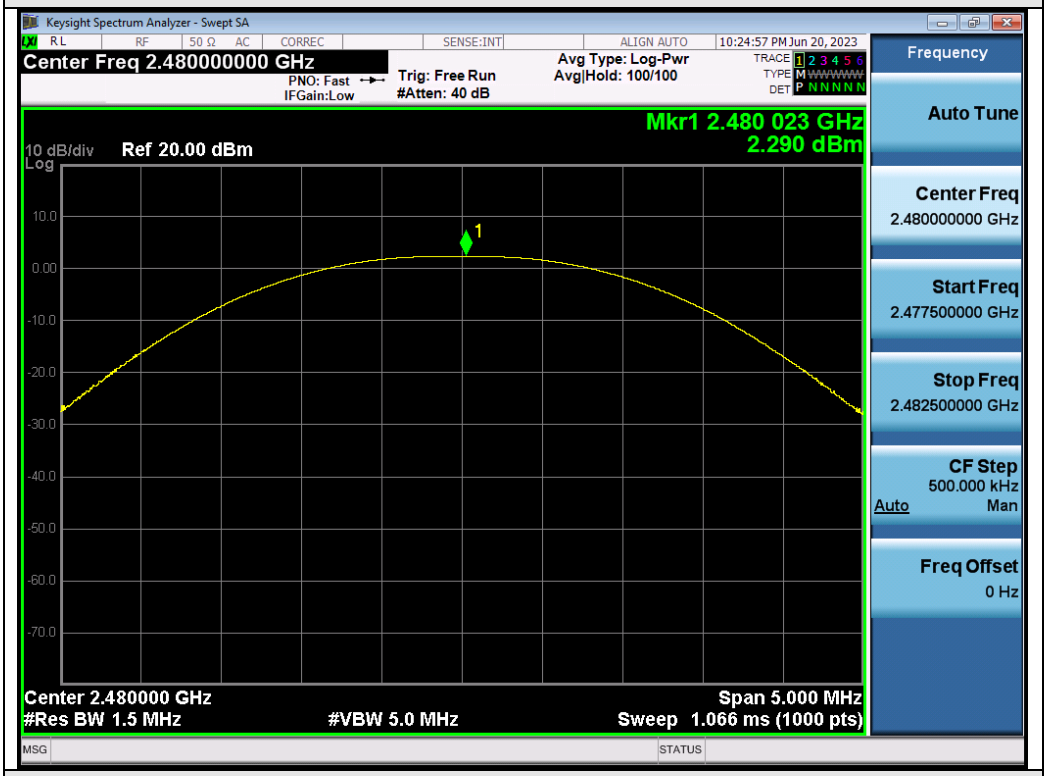


Test_Graph_BR_ANT1_2441_1Mbps_Peak Power



Test_Graph_BR_ANT1_2480_1Mbps_Peak Power

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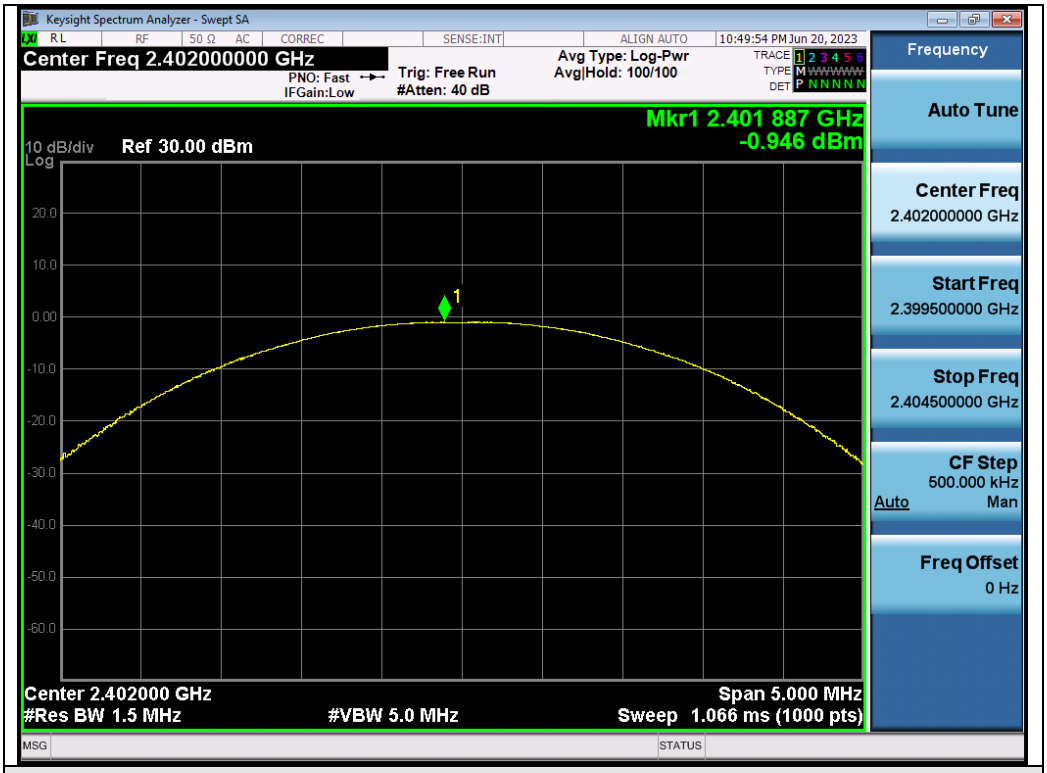
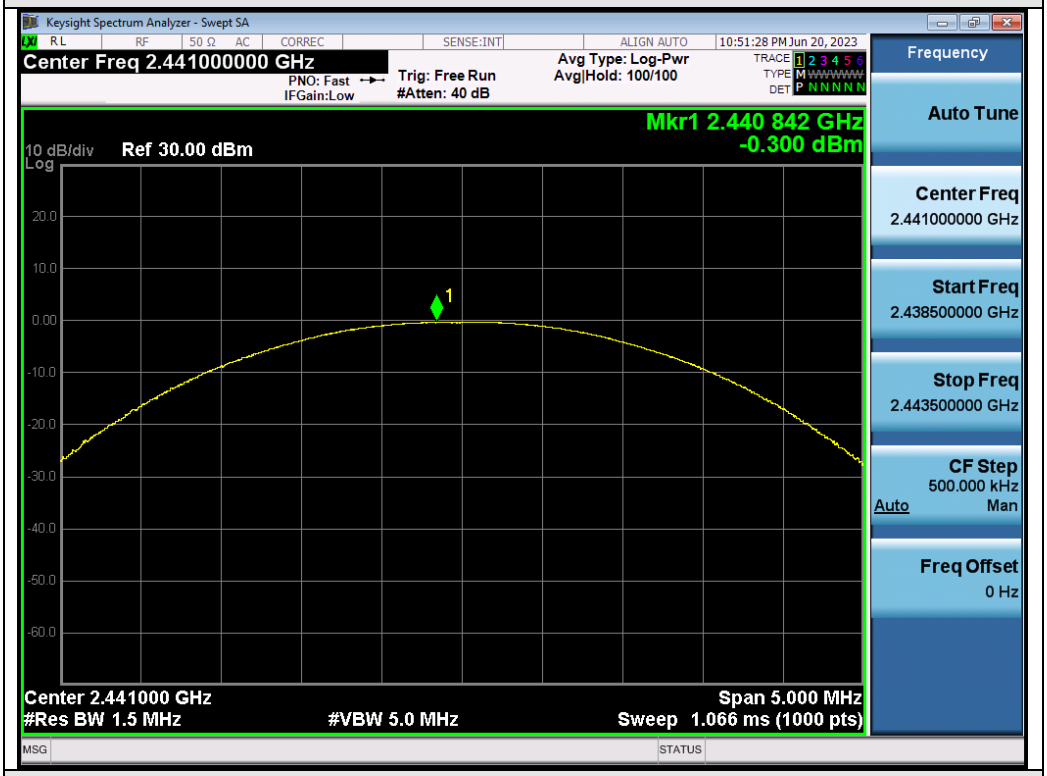


Test_Graph_EDR_ANT1_2402_2Mbps_Peak Power



Test_Graph_EDR_ANT1_2441_2Mbps_Peak Power

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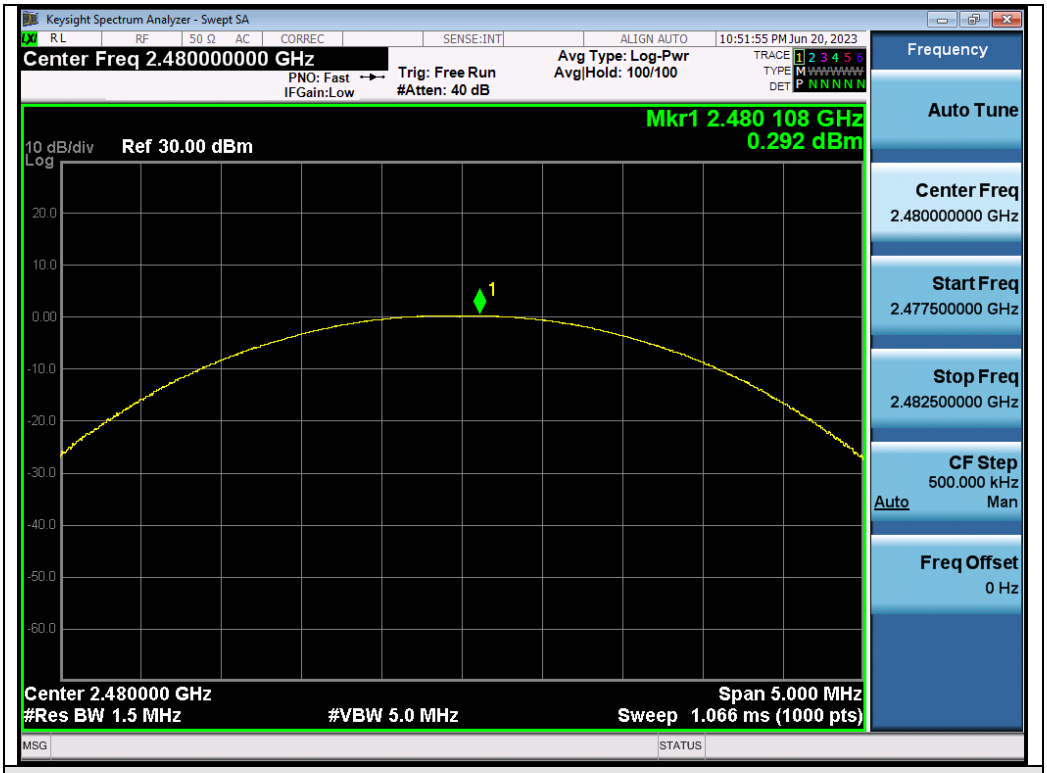
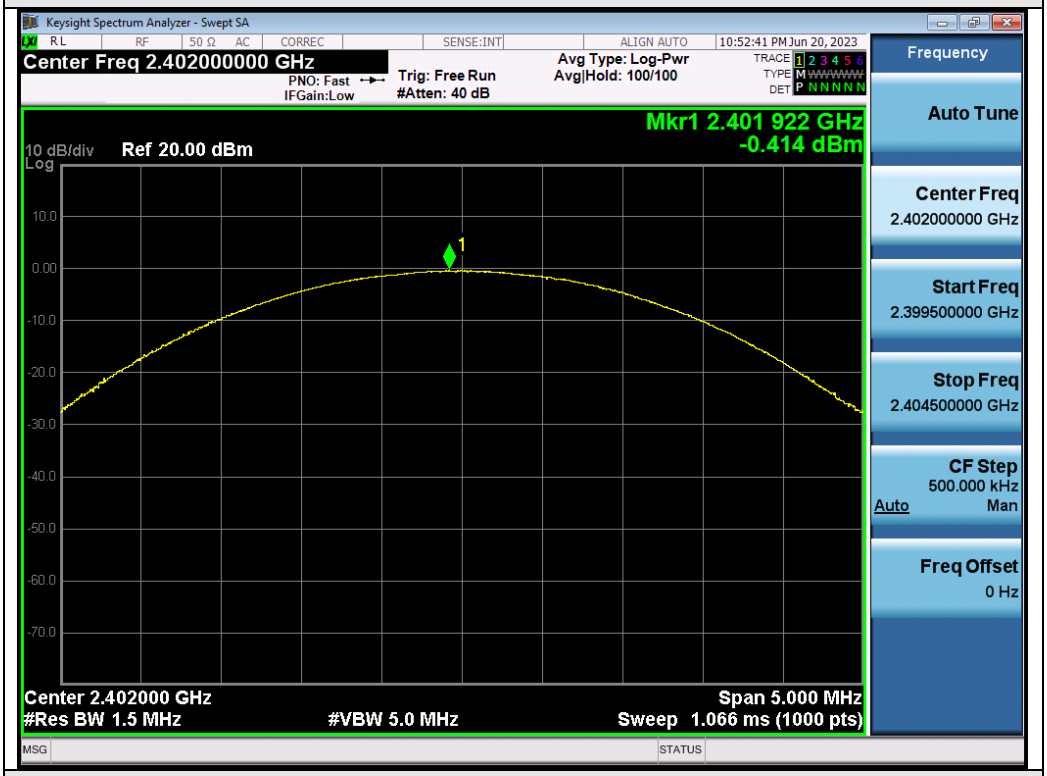


Test_Graph_EDR_ANT1_2480_2Mbps_Peak Power



Test_Graph_EDR_ANT1_2402_3Mbps_Peak Power

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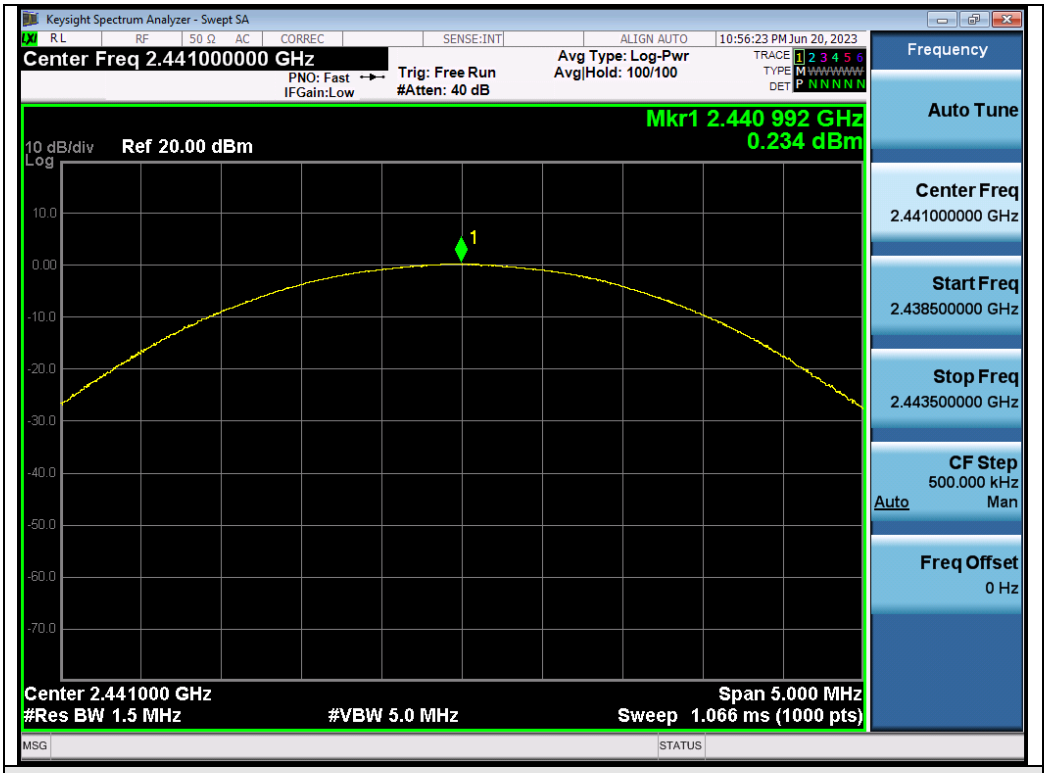
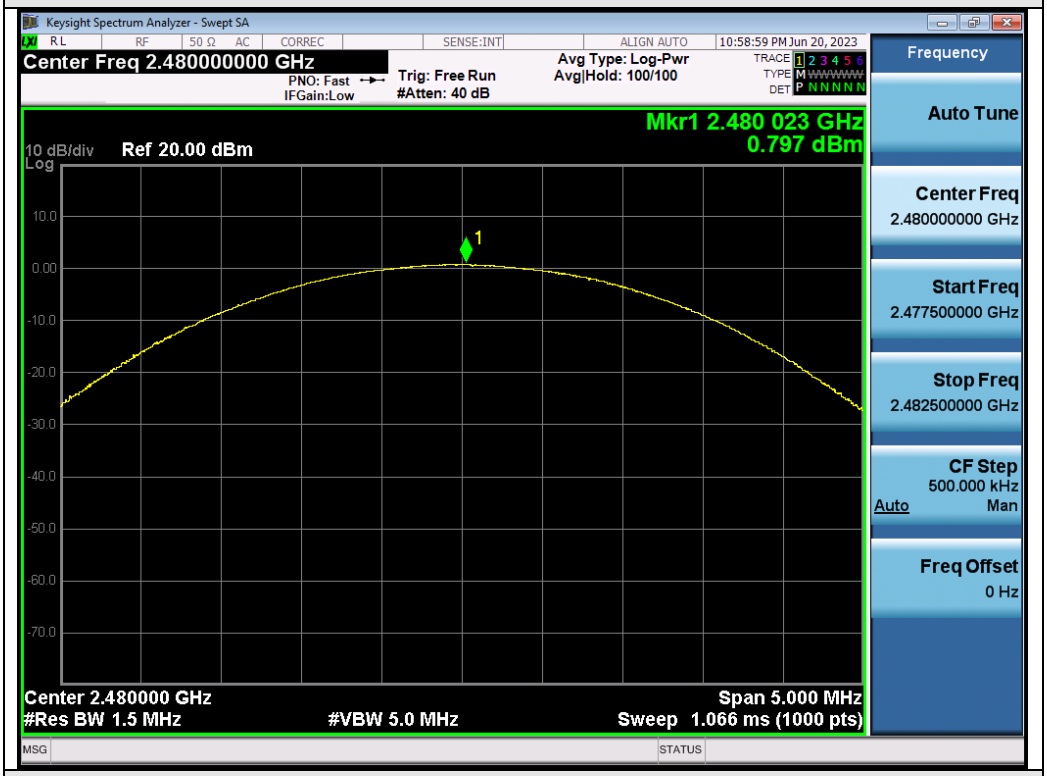


Test_Graph_EDR_ANT1_2441_3Mbps_Peak Power



Test_Graph_EDR_ANT1_2480_3Mbps_Peak Power

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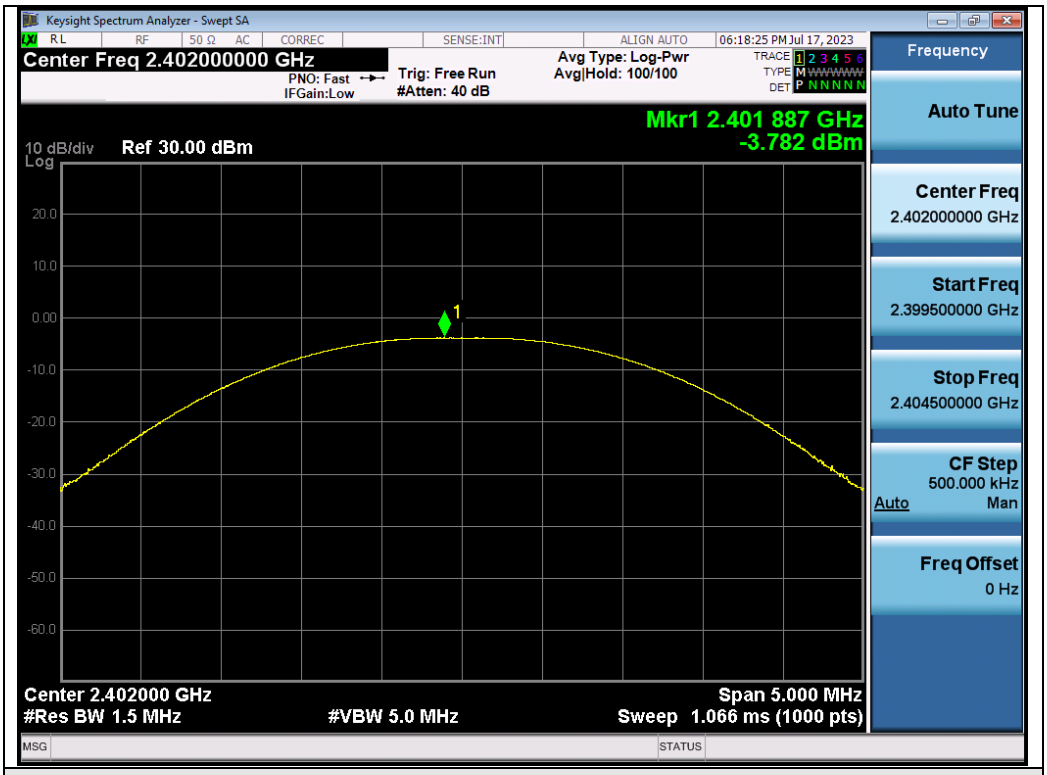
Test Data of Conducted Output Power (Right)				
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
GFSK	2402	-3.782	≤21	Pass
	2441	-3.594	≤21	Pass
	2480	-3.359	≤21	Pass
π /4-DQPSK	2402	-3.800	≤21	Pass
	2441	-3.636	≤21	Pass
	2480	-3.391	≤21	Pass
8DPSK	2402	-3.767	≤21	Pass
	2441	-3.626	≤21	Pass
	2480	-3.381	≤21	Pass

Test Graphs of Conducted Output Power



Test_Graph_BR_ANT1_2402_1Mbps_Peak Power

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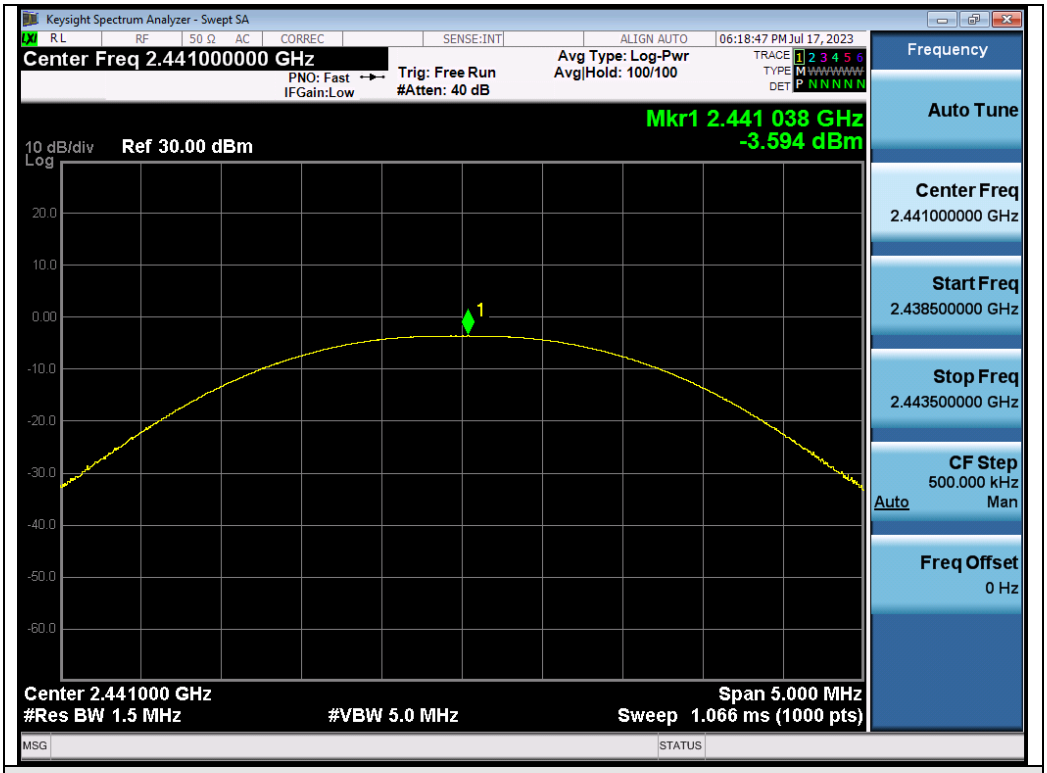
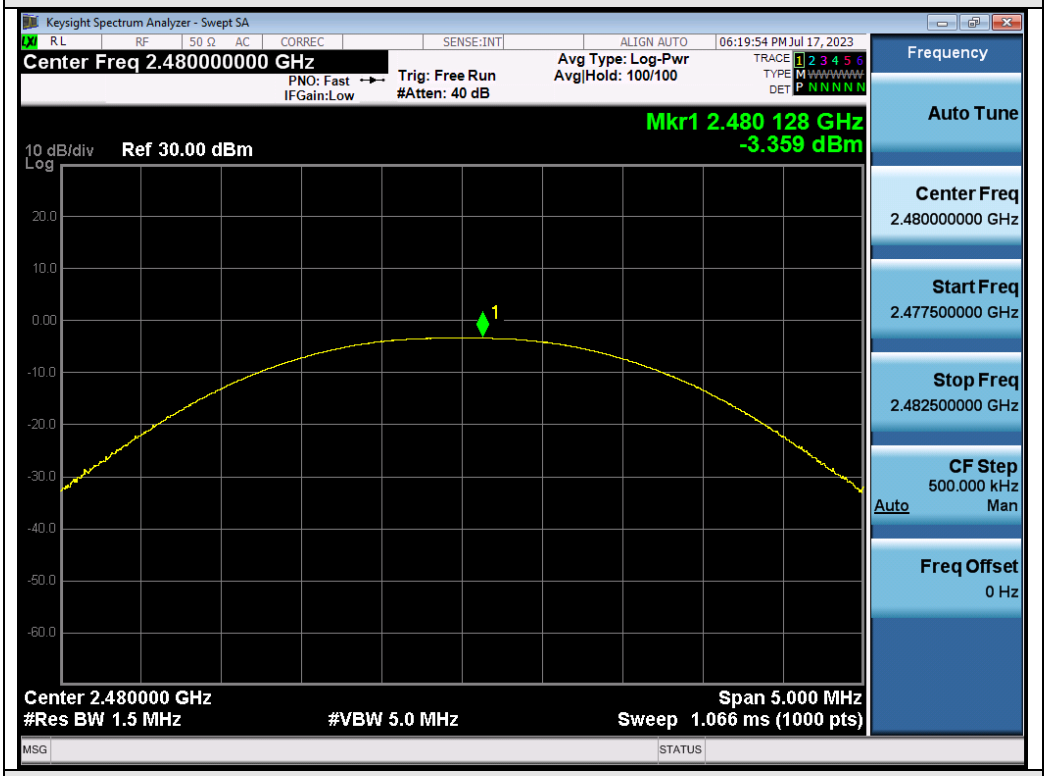


Test_Graph_BR_ANT1_2441_1Mbps_Peak Power



Test_Graph_BR_ANT1_2480_1Mbps_Peak Power

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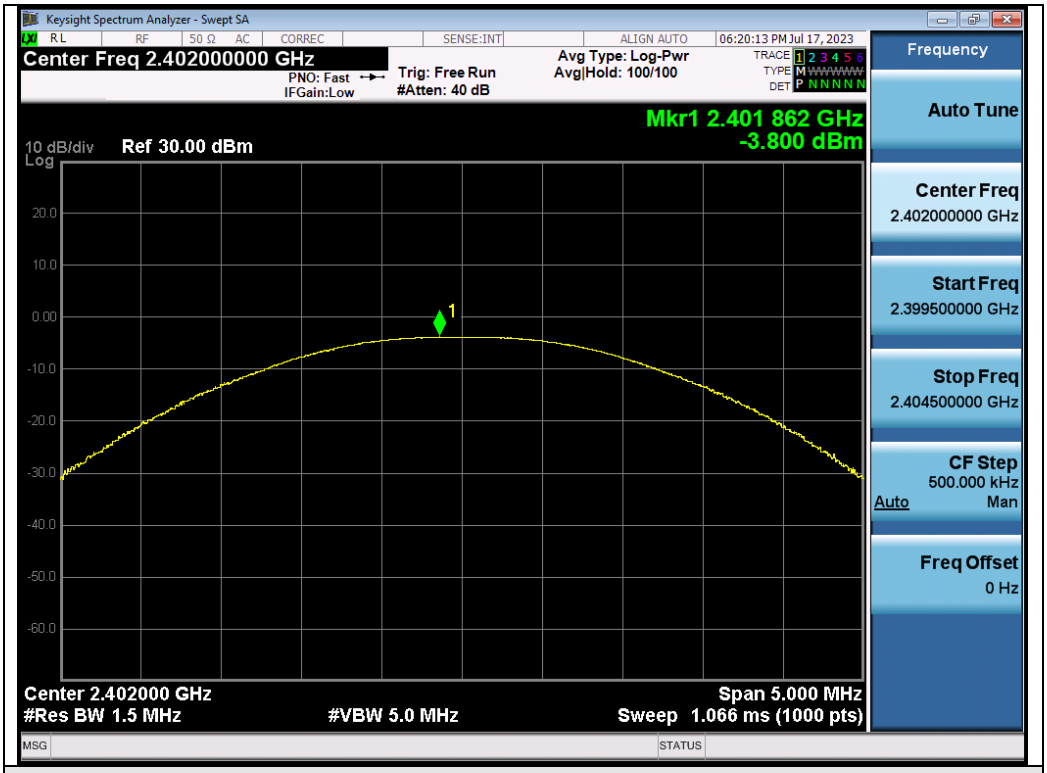
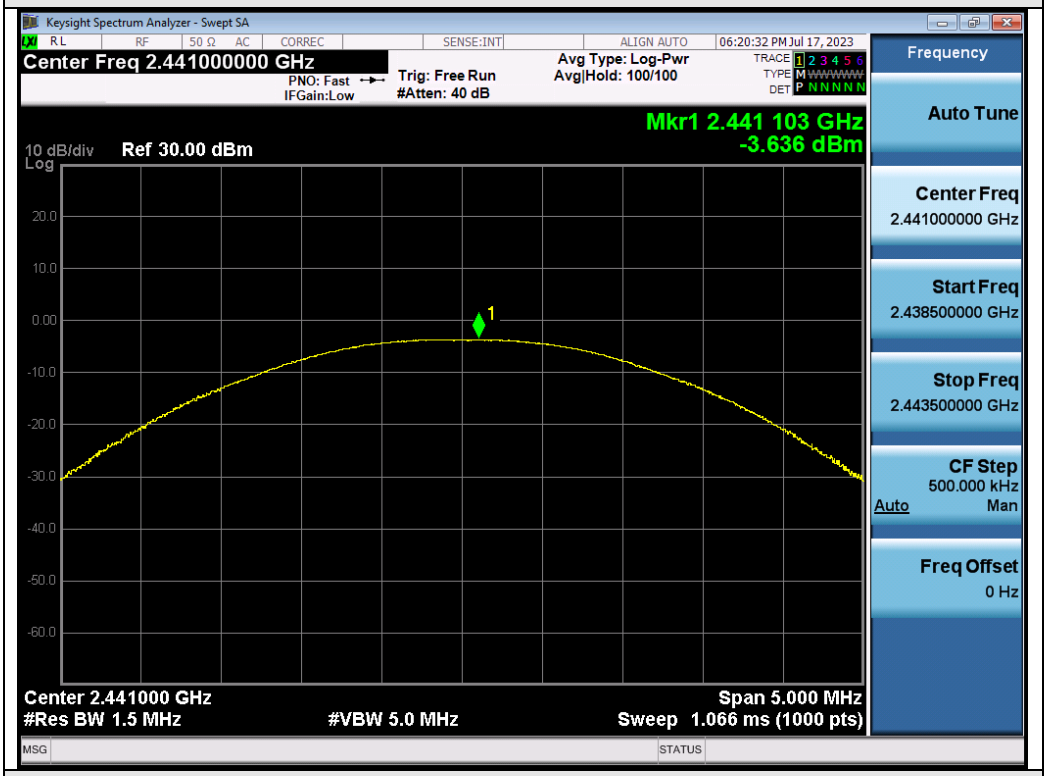


Test_Graph_EDR_ANT1_2402_2Mbps_Peak Power



Test_Graph_EDR_ANT1_2441_2Mbps_Peak Power

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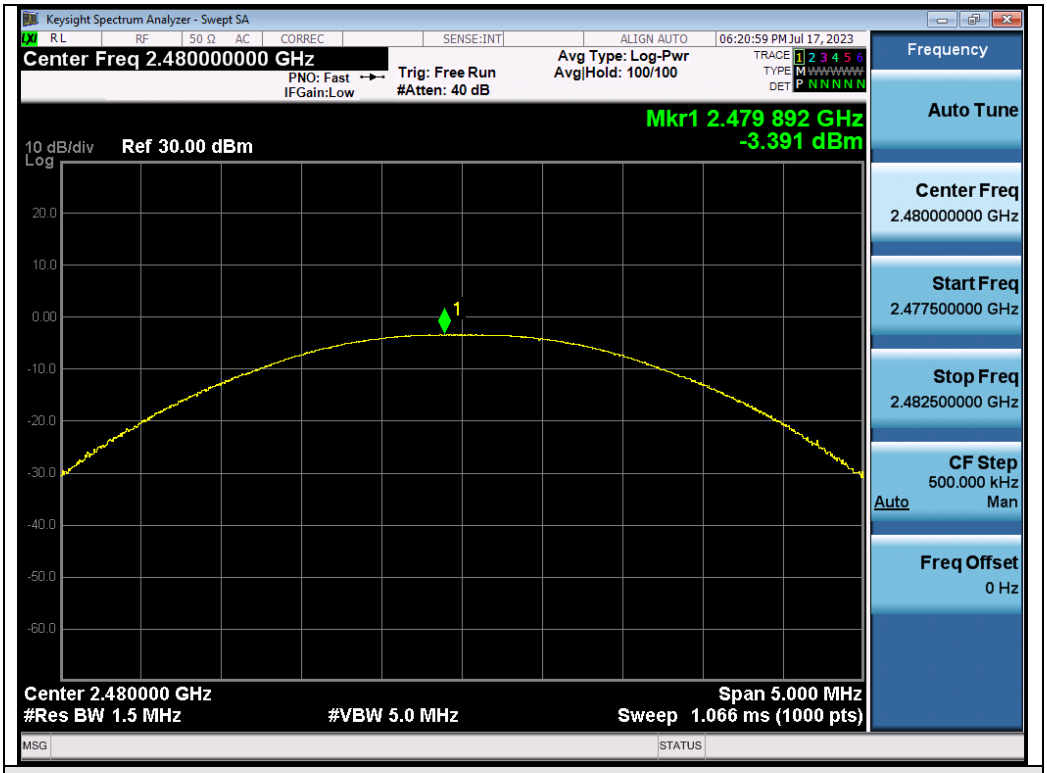
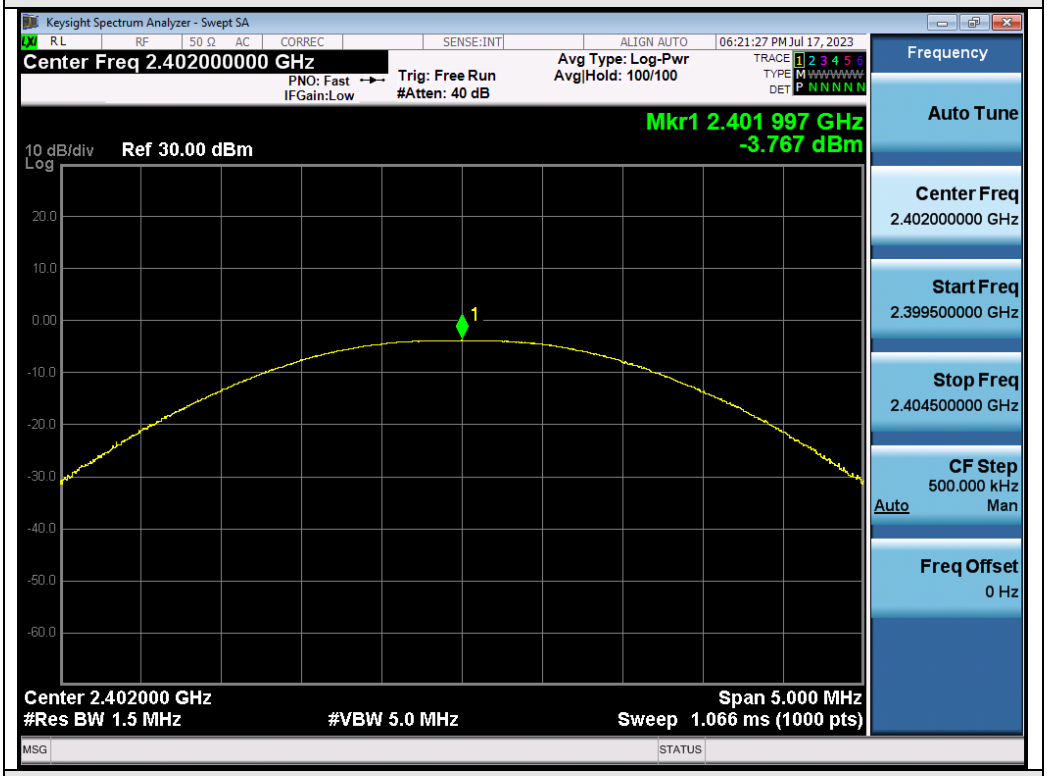


Test_Graph_EDR_ANT1_2480_2Mbps_Peak Power



Test_Graph_EDR_ANT1_2402_3Mbps_Peak Power

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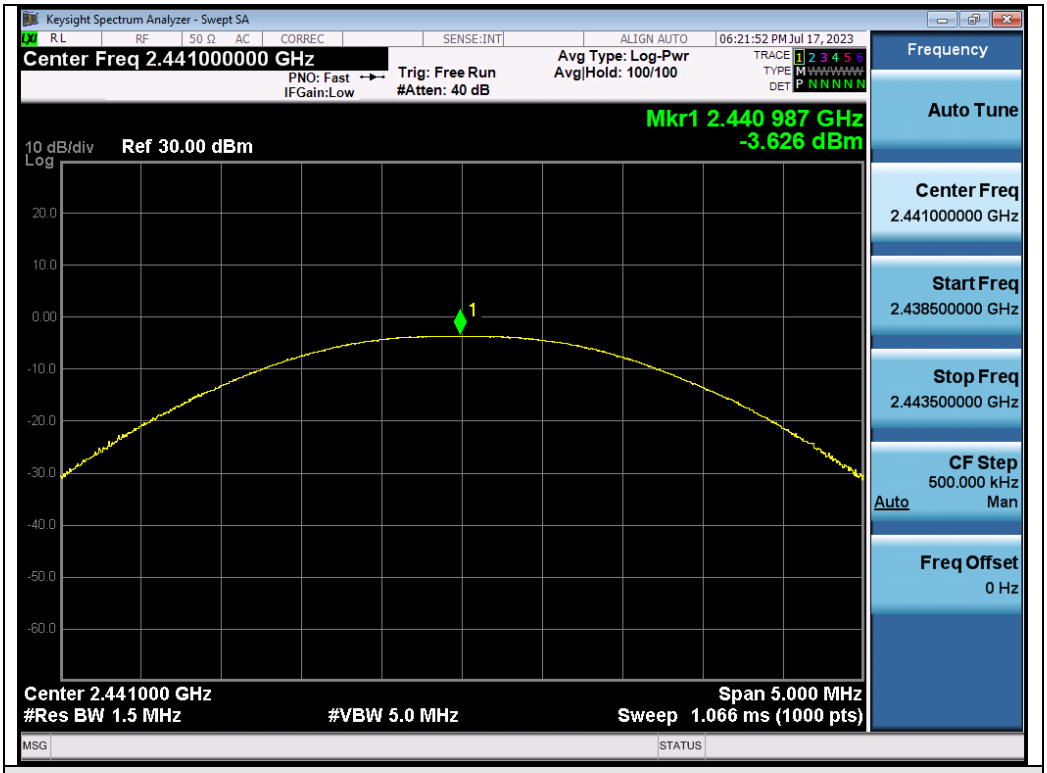
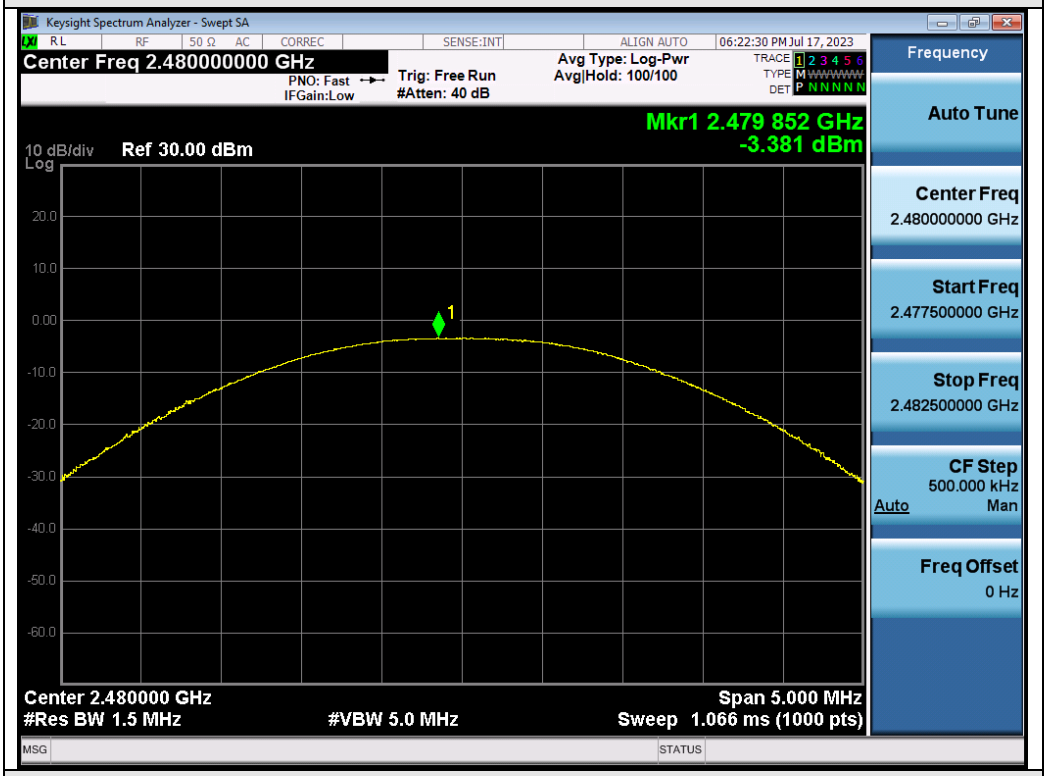


Test_Graph_EDR_ANT1_2441_3Mbps_Peak Power



Test_Graph_EDR_ANT1_2480_3Mbps_Peak Power

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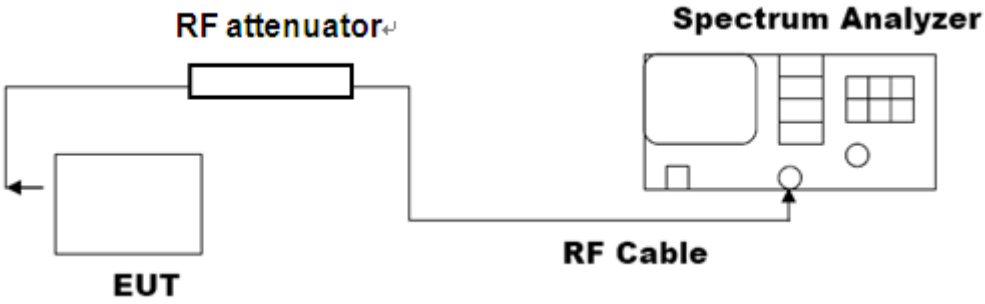
8. 20DB BANDWIDTH

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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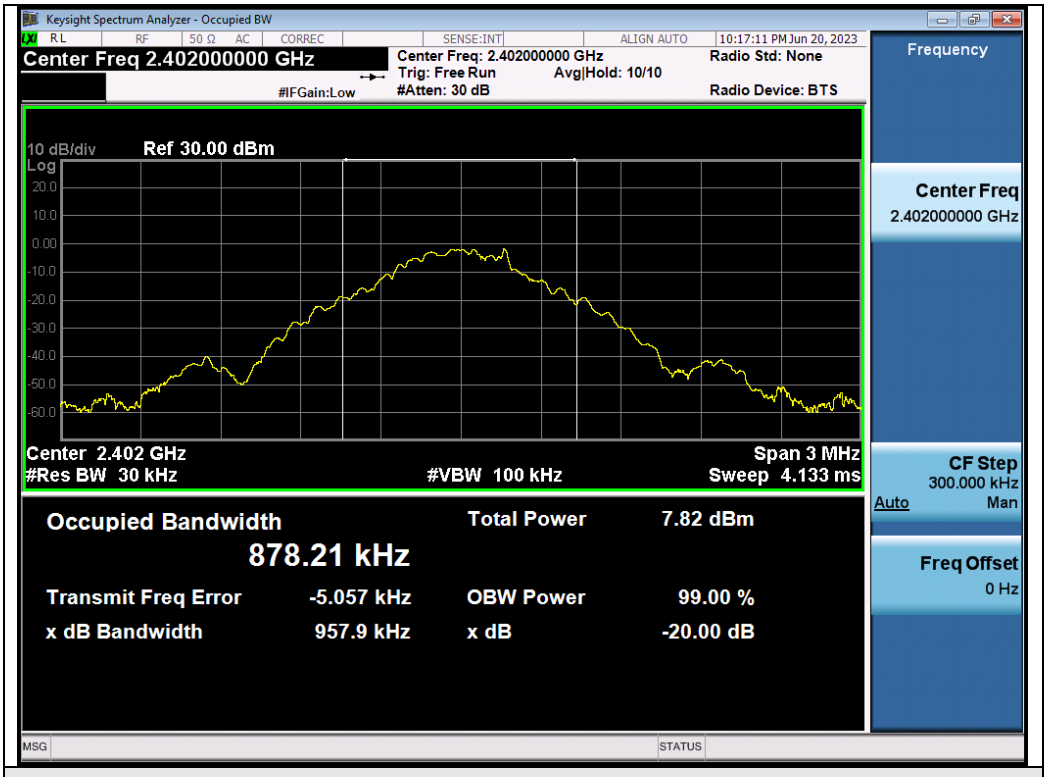
8.3. LIMITS AND MEASUREMENT RESULTS

Test Data of Occupied Bandwidth and -20dB Bandwidth					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-20dB Bandwidth (MHz)	Limits	Pass or Fail
GFSK	2402	0.878	0.958	N/A	Pass
	2441	0.873	0.957	N/A	Pass
	2480	0.869	0.956	N/A	Pass
π /4-DQPSK	2402	1.188	1.332	N/A	Pass
	2441	1.187	1.331	N/A	Pass
	2480	1.188	1.333	N/A	Pass
8DPSK	2402	1.188	1.305	N/A	Pass
	2441	1.189	1.307	N/A	Pass
	2480	1.187	1.305	N/A	Pass

Test Graphs of Occupied Bandwidth and -20 Bandwidth



Test_Graph_BR_ANT1_2402_1Mbps_OBW

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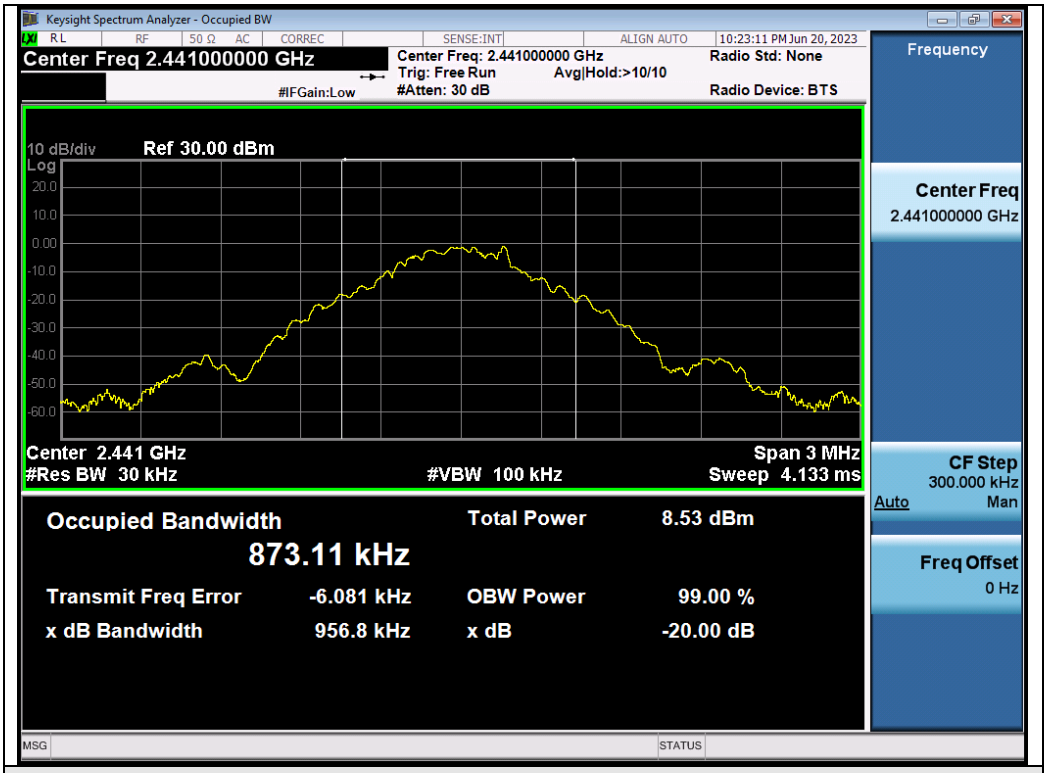
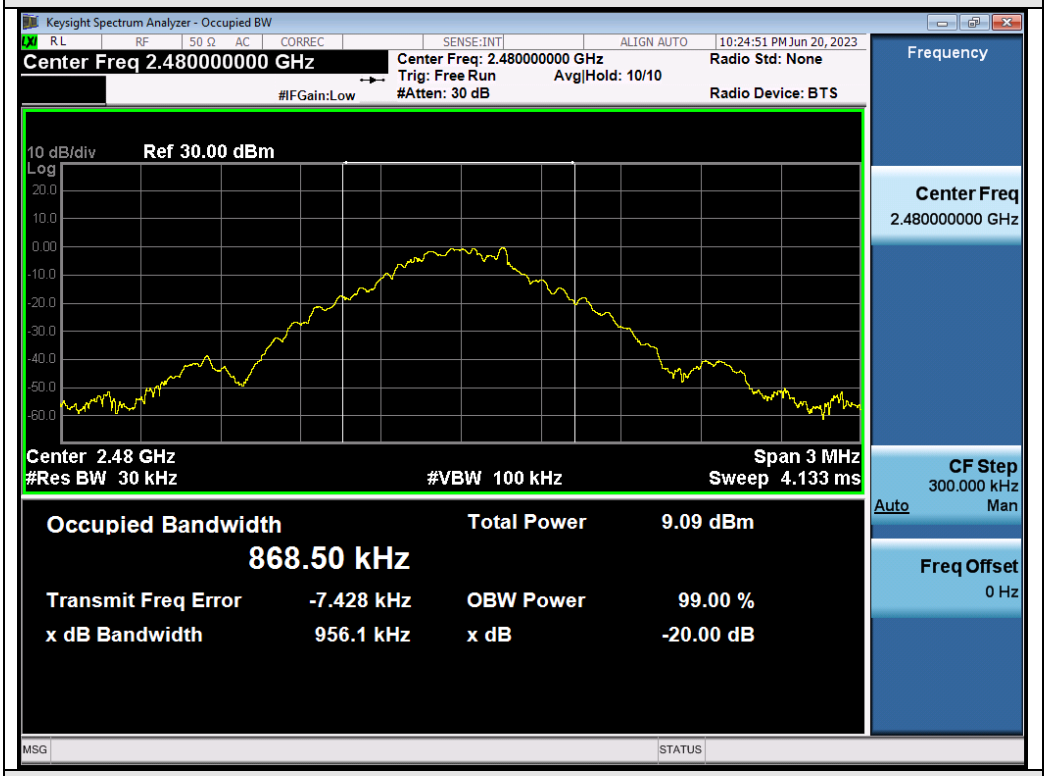


Test_Graph_BR_ANT1_2441_1Mbps_OBW



Test_Graph_BR_ANT1_2480_1Mbps_OBW

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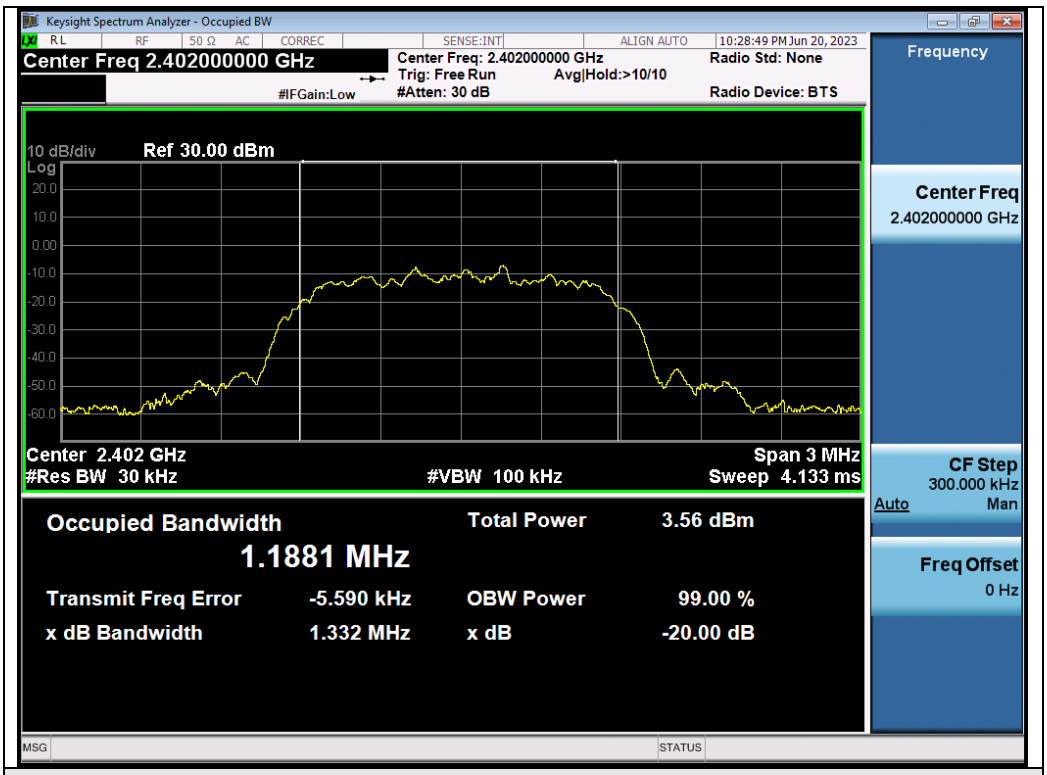
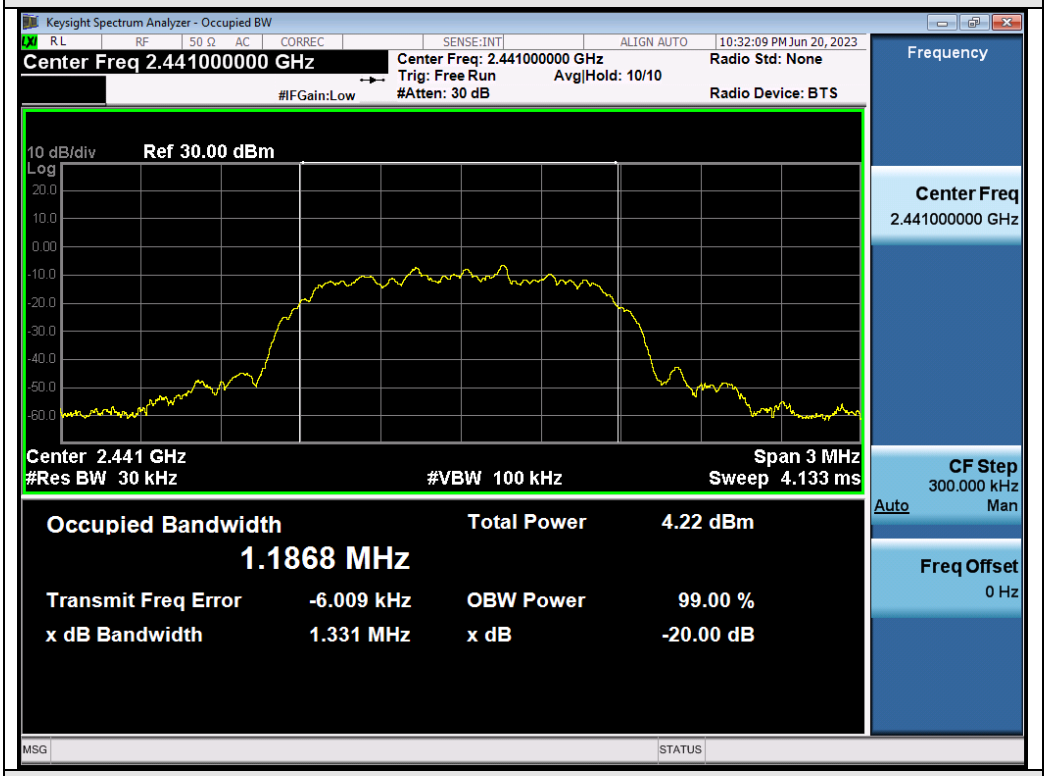


Test_Graph_EDR_ANT1_2402_2Mbps_OBW



Test_Graph_EDR_ANT1_2441_2Mbps_OBW

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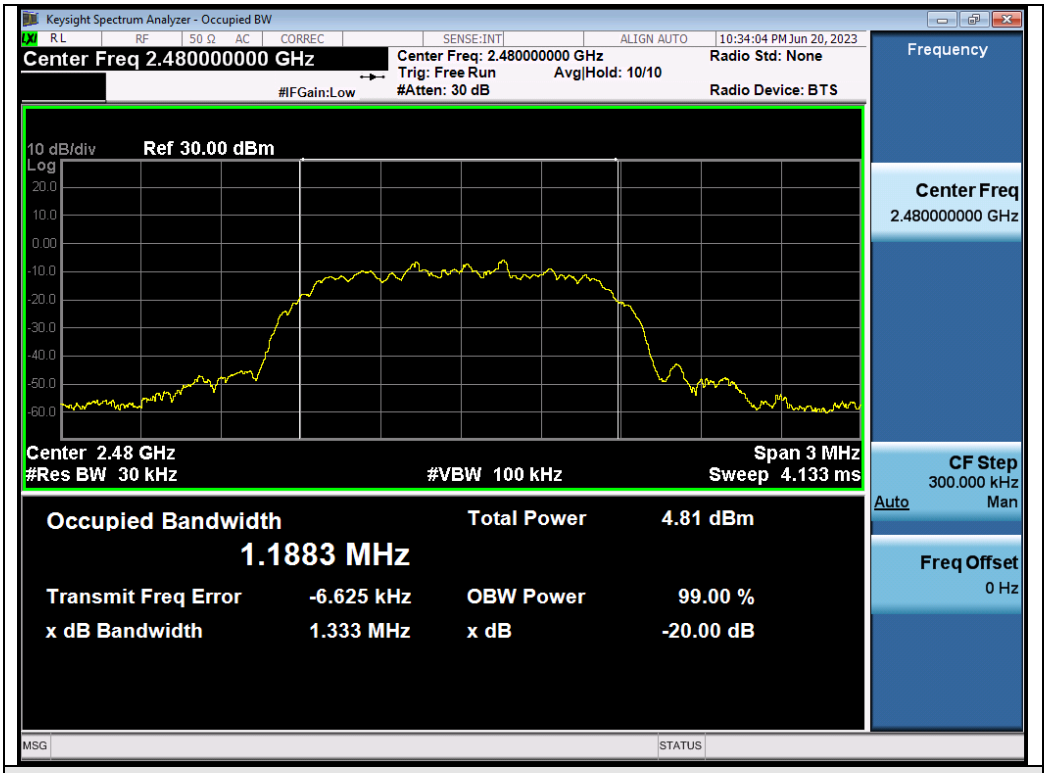
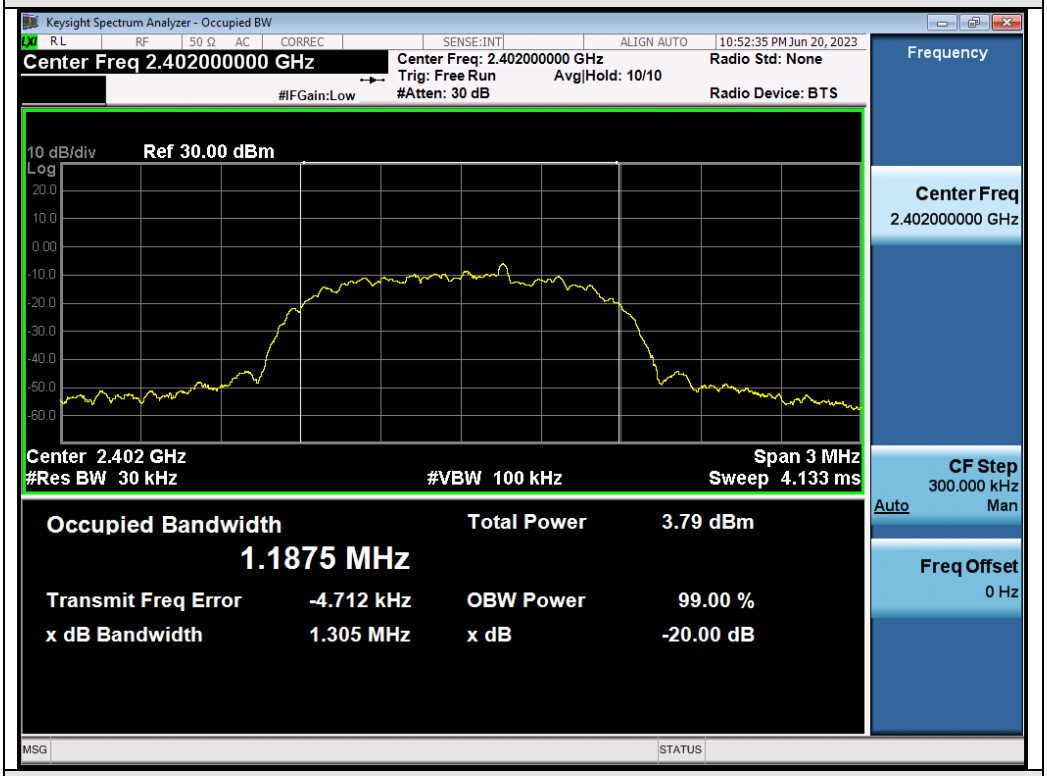


Test_Graph_EDR_ANT1_2480_2Mbps_OBW



Test_Graph_EDR_ANT1_2402_3Mbps_OBW

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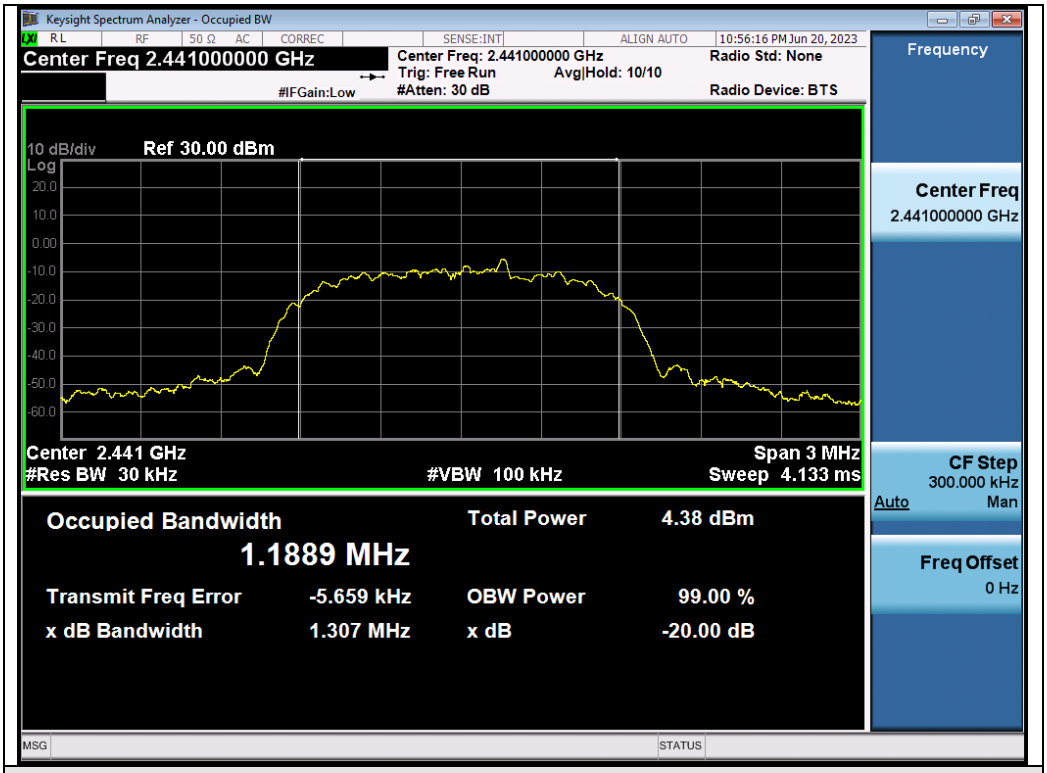
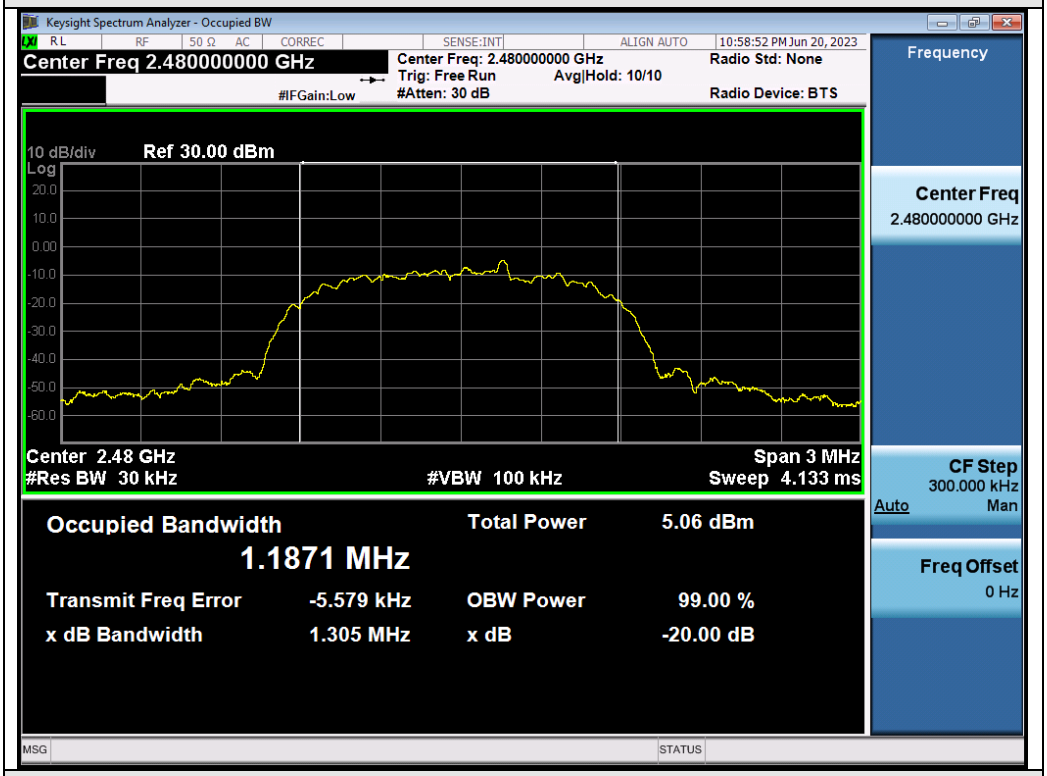


Test_Graph_EDR_ANT1_2441_3Mbps_OBW



Test_Graph_EDR_ANT1_2480_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 frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS
	At least -20dBc than the limit Specified on the TOP Channel	PASS

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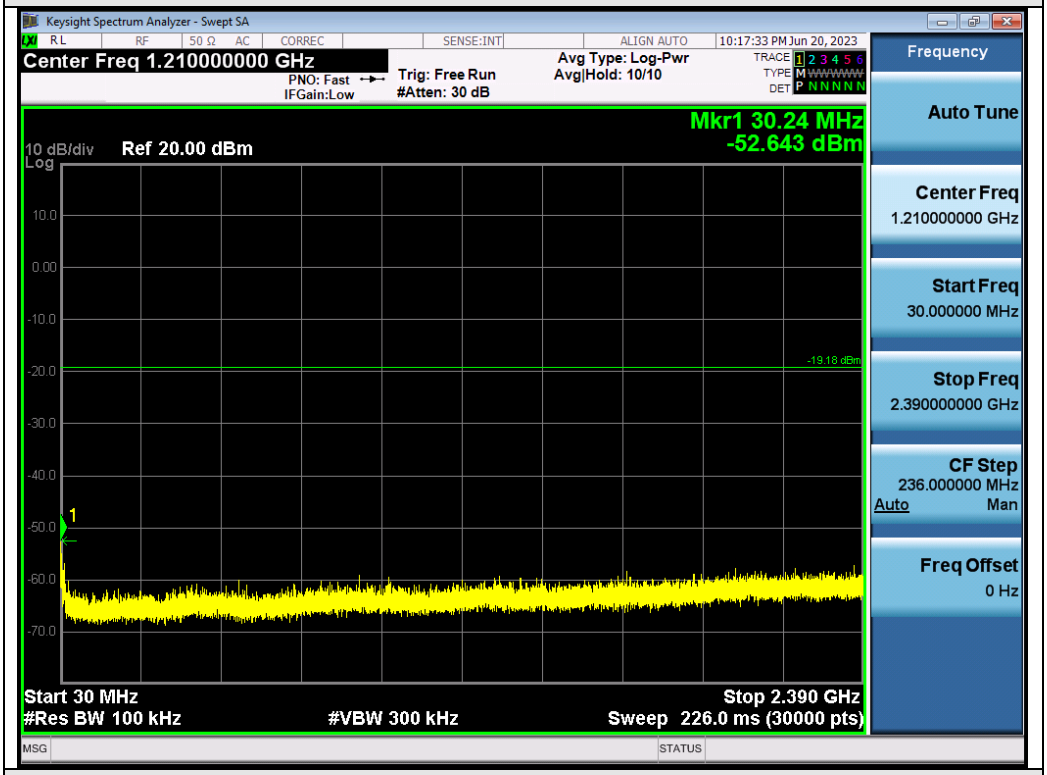
Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands

Test_Graph_BR_ANT1_2402_1Mbps_Reference Level



Test_Graph_BR_ANT1_2402_1Mbps_Lower Band Emissions

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Test_Graph_BR_ANT1_2402_1Mbps_Higher Band Emissions

Test_Graph_BR_ANT1_2441_1Mbps_Reference Level

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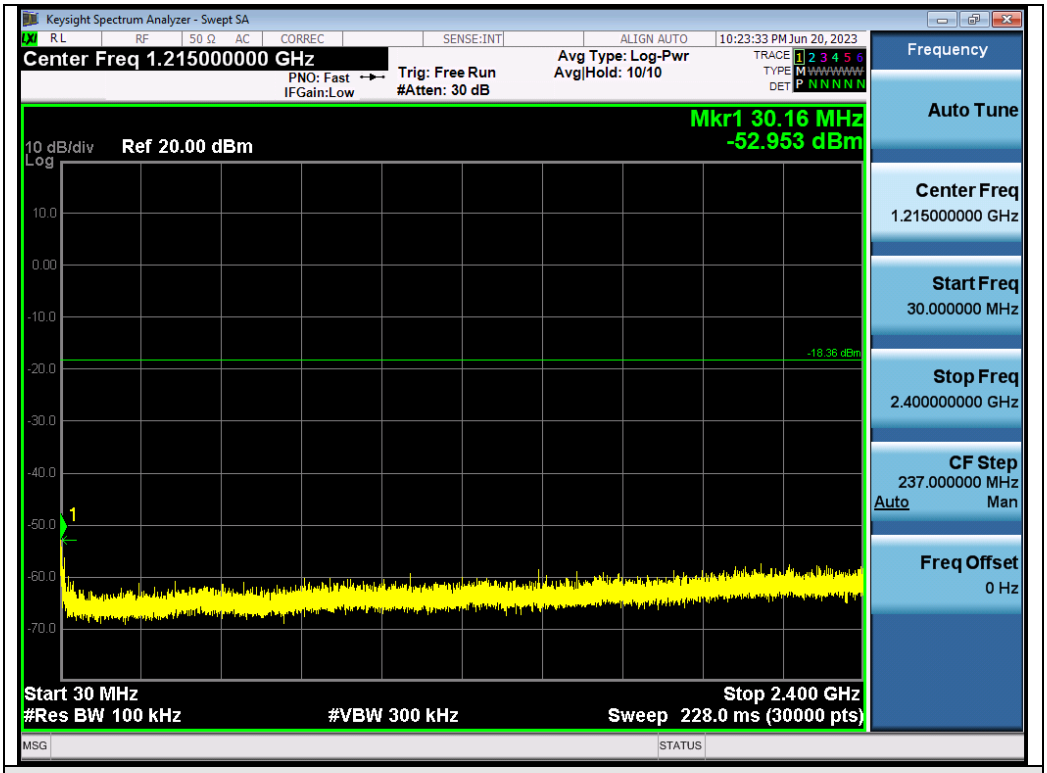

Test_Graph_BR_ANT1_2441_1Mbps_Lower Band Emissions

Test_Graph_BR_ANT1_2441_1Mbps_Higher Band Emissions

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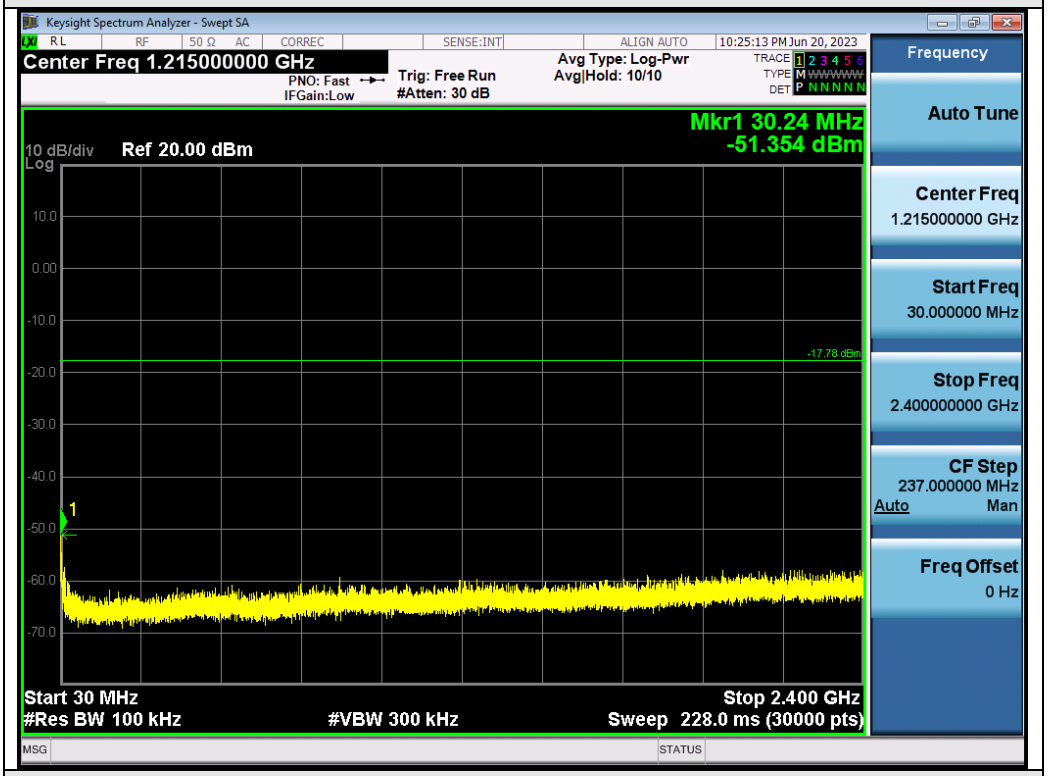
Test_Graph_BR_ANT1_2480_1Mbps_Reference Level



Test_Graph_BR_ANT1_2480_1Mbps_Lower Band Emissions

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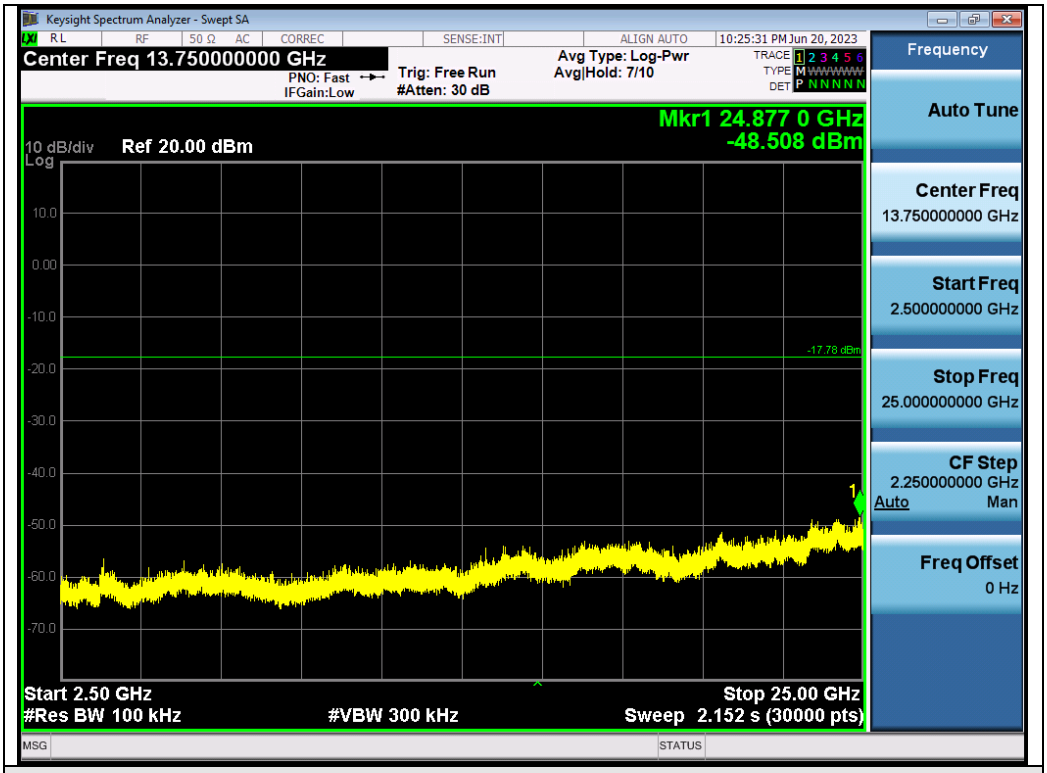
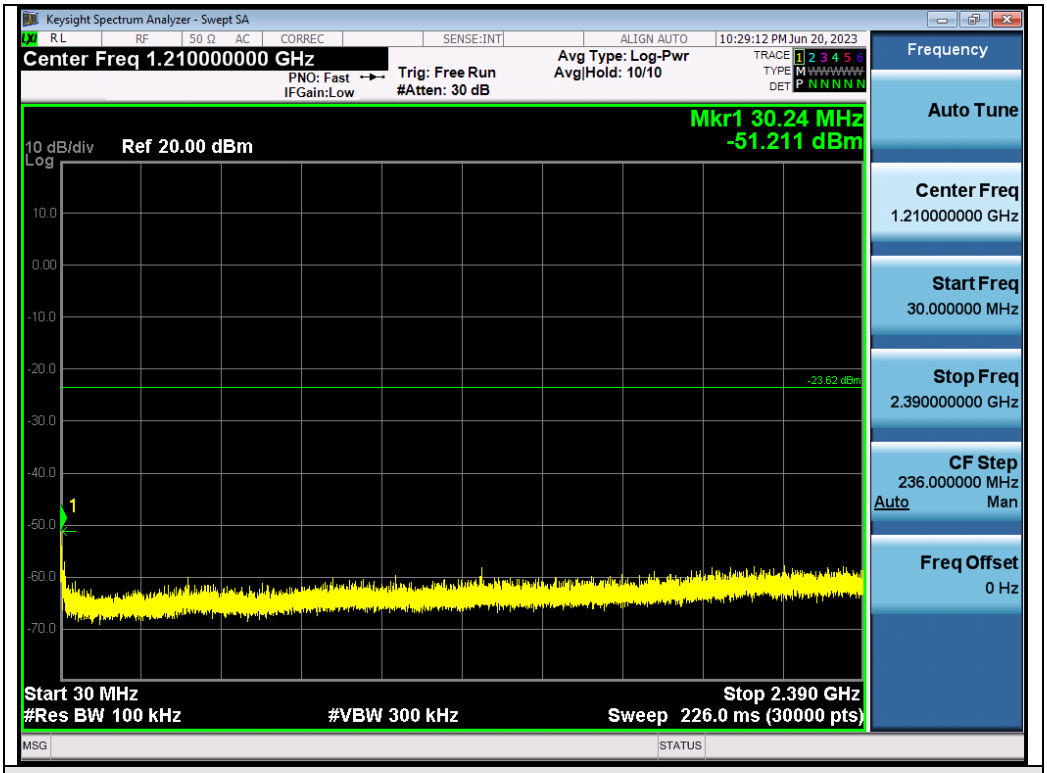


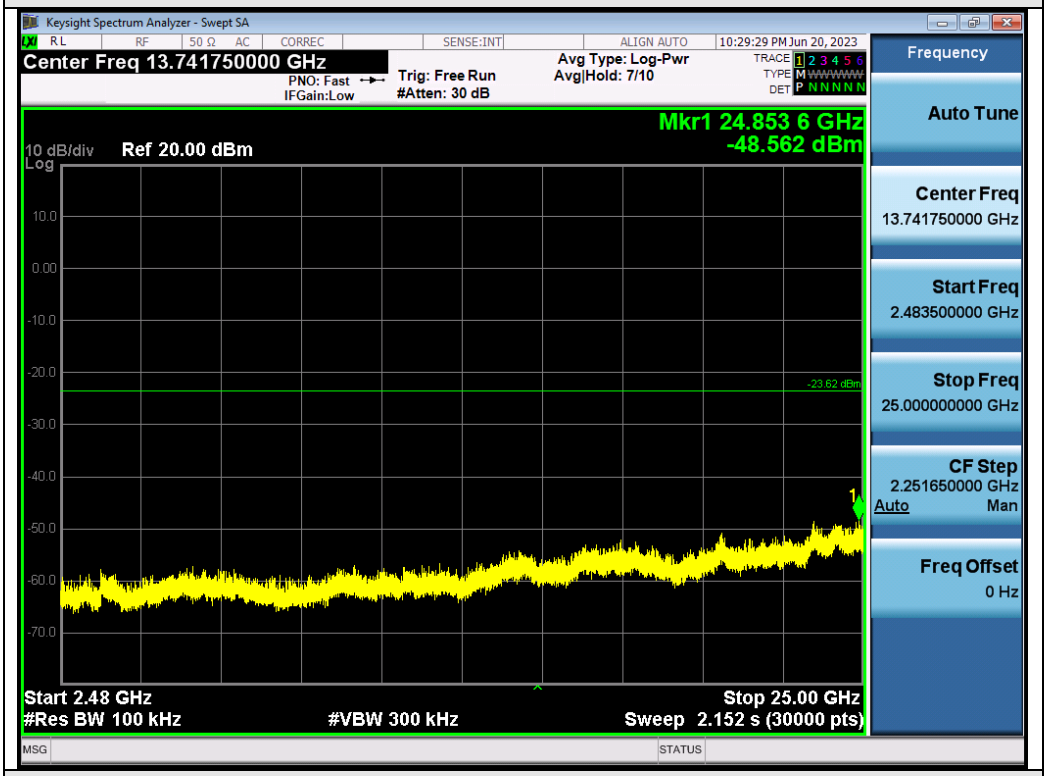
Test_Graph_BR_ANT1_2480_1Mbps_Higher Band Emissions

Test_Graph_EDR_ANT1_2402_2Mbps_Reference Level

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_Lower Band Emissions



Test_Graph_EDR_ANT1_2402_2Mbps_Higher Band Emissions

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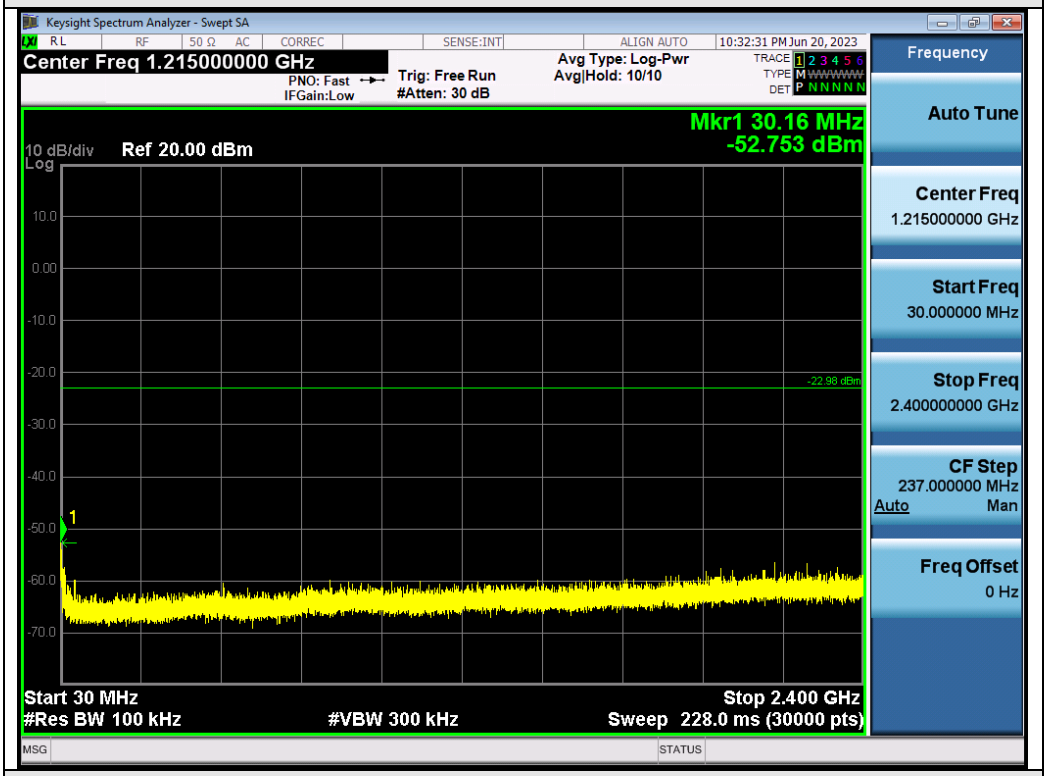
Test_Graph_EDR_ANT1_2441_2Mbps_Reference Level



Test_Graph_EDR_ANT1_2441_2Mbps_Lower Band Emissions

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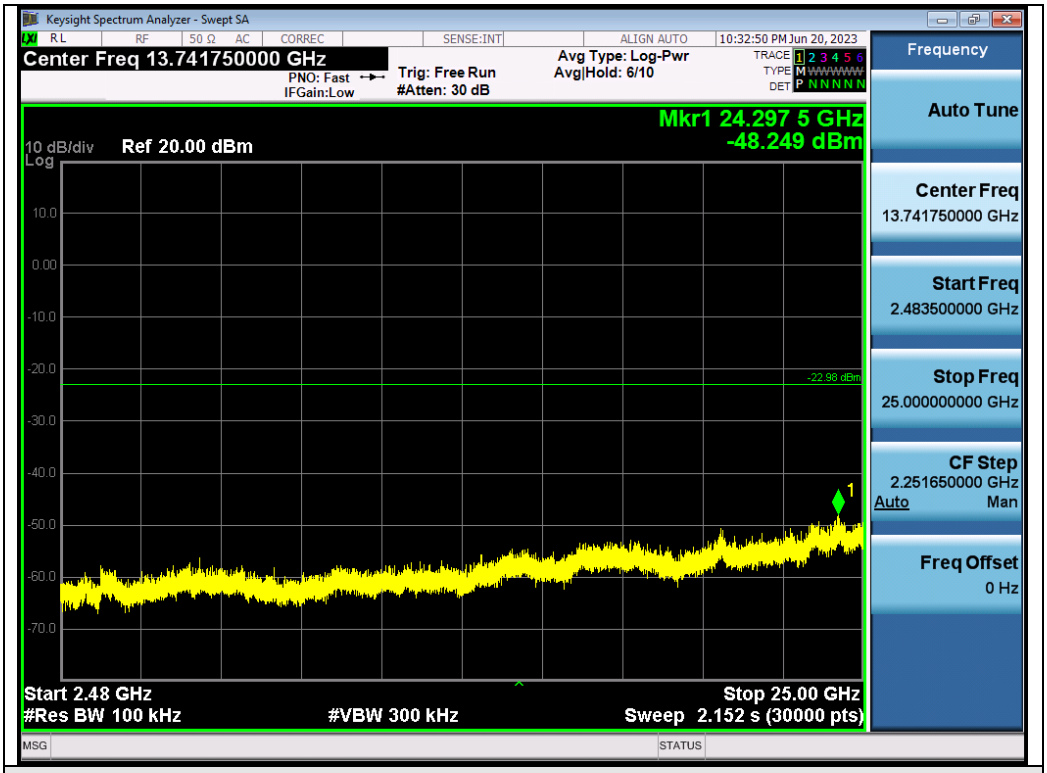

Test_Graph_EDR_ANT1_2441_2Mbps_Higher Band Emissions

Test_Graph_EDR_ANT1_2480_2Mbps_Reference Level

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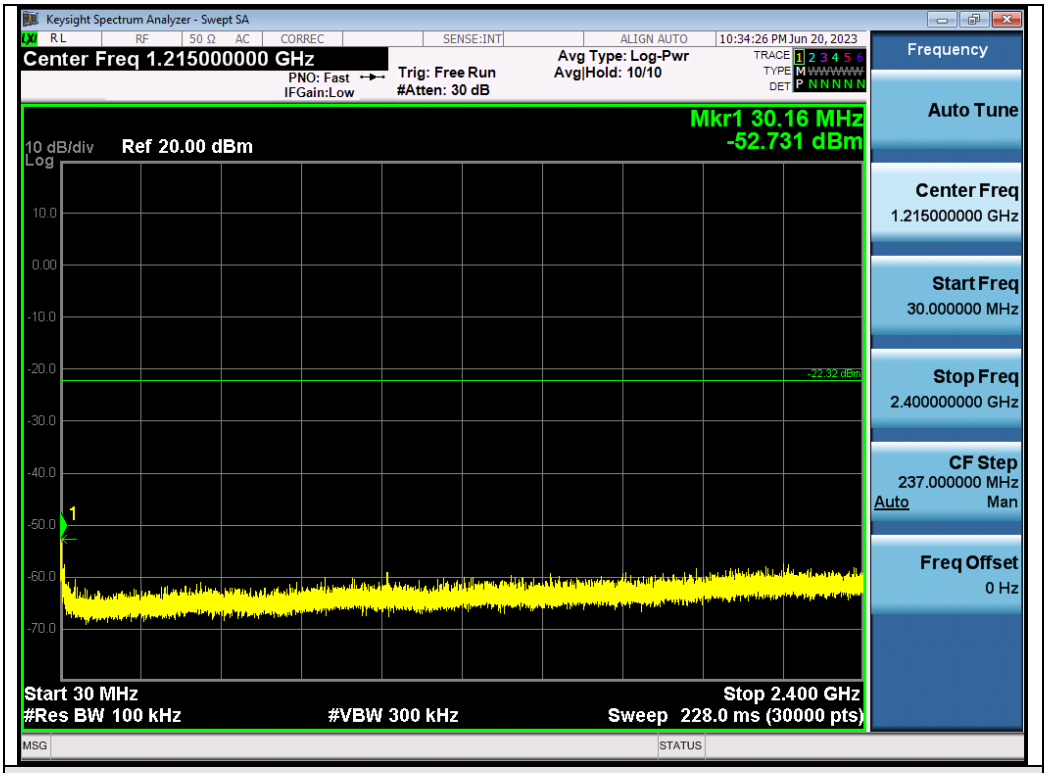

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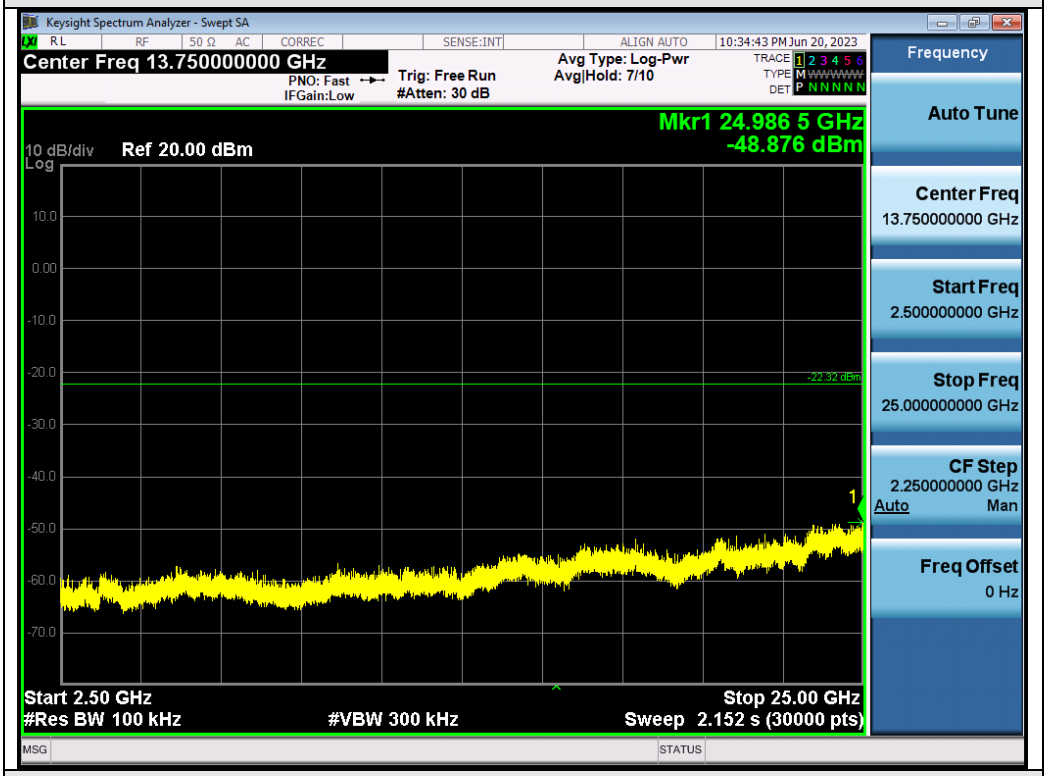

Test_Graph_EDR_ANT1_2480_2Mbps_Higher Band Emissions

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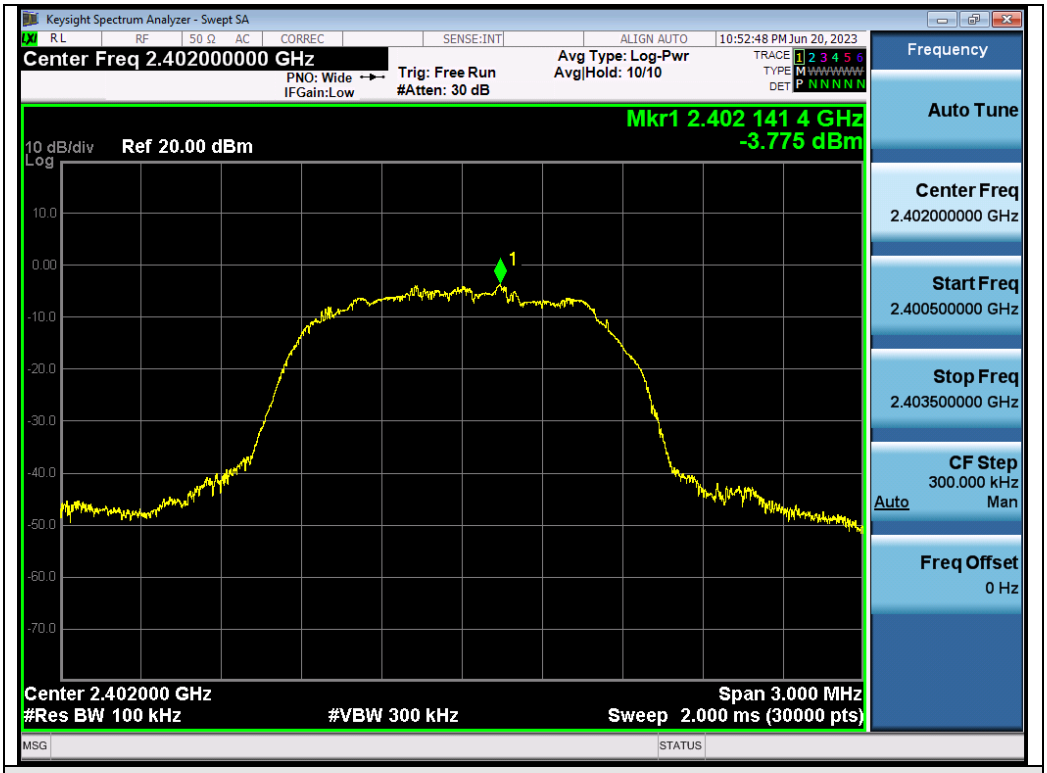
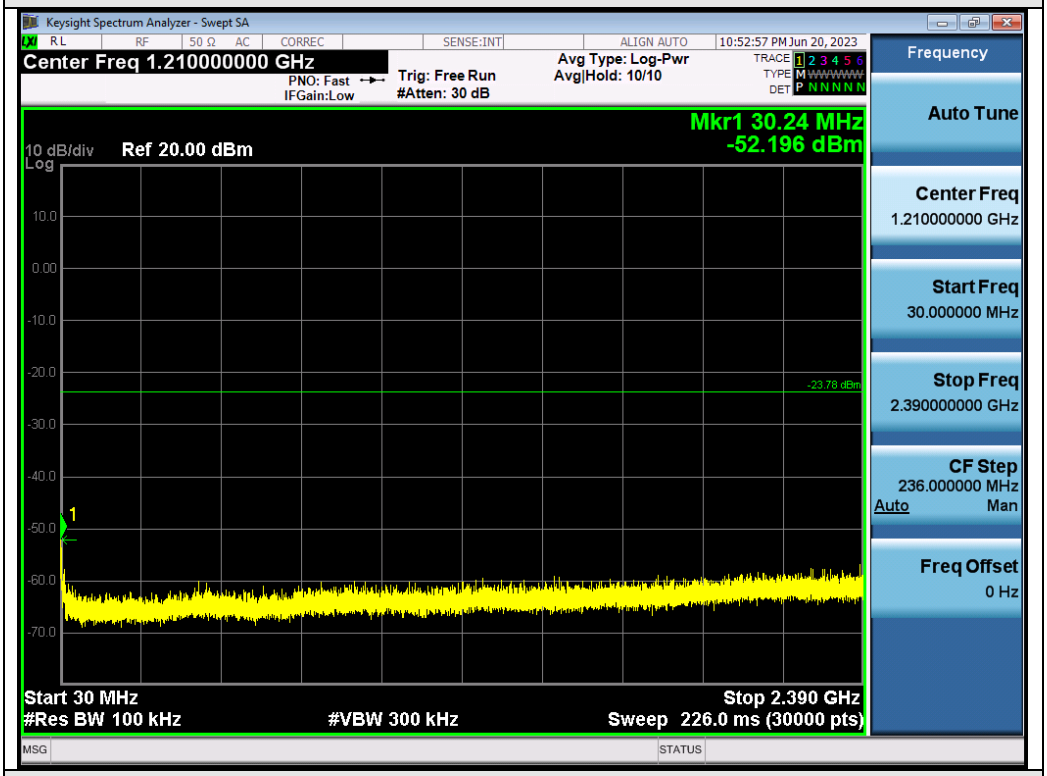


Test_Graph_EDR_ANT1_2402_3Mbps_Reference Level



Test_Graph_EDR_ANT1_2402_3Mbps_Lower Band Emissions

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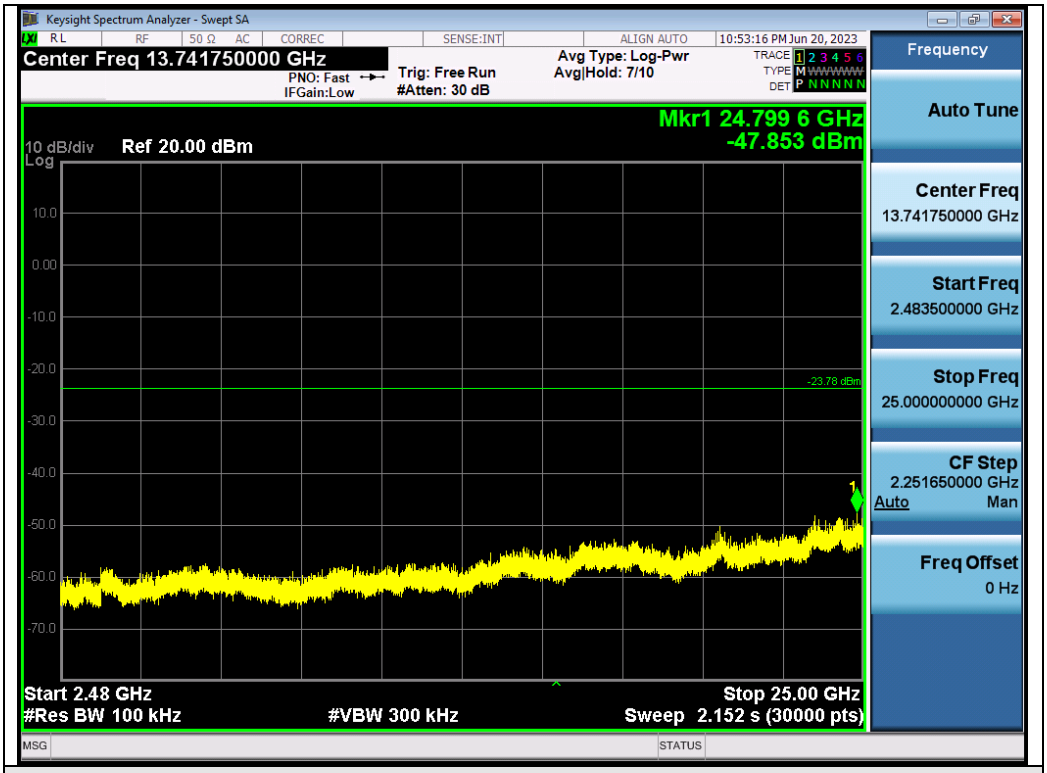

Test_Graph_EDR_ANT1_2402_3Mbps_Higher Band Emissions

Test_Graph_EDR_ANT1_2441_3Mbps_Reference Level

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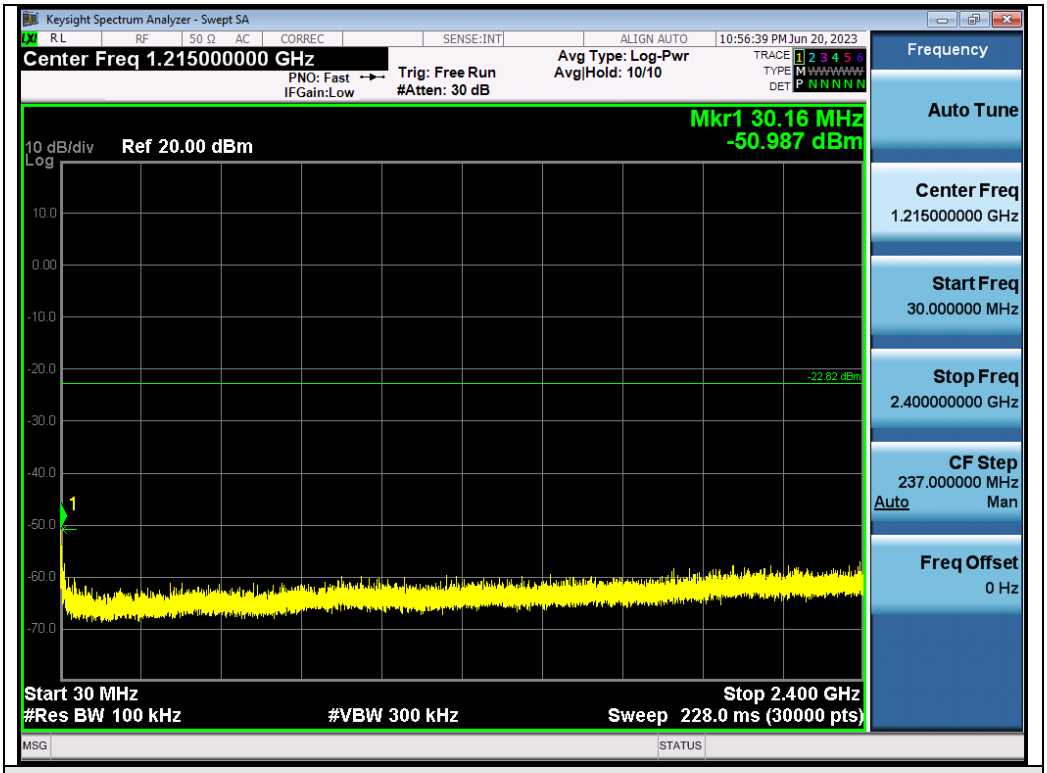

Test_Graph_EDR_ANT1_2441_3Mbps_Lower Band Emissions

Test_Graph_EDR_ANT1_2441_3Mbps_Higher Band Emissions

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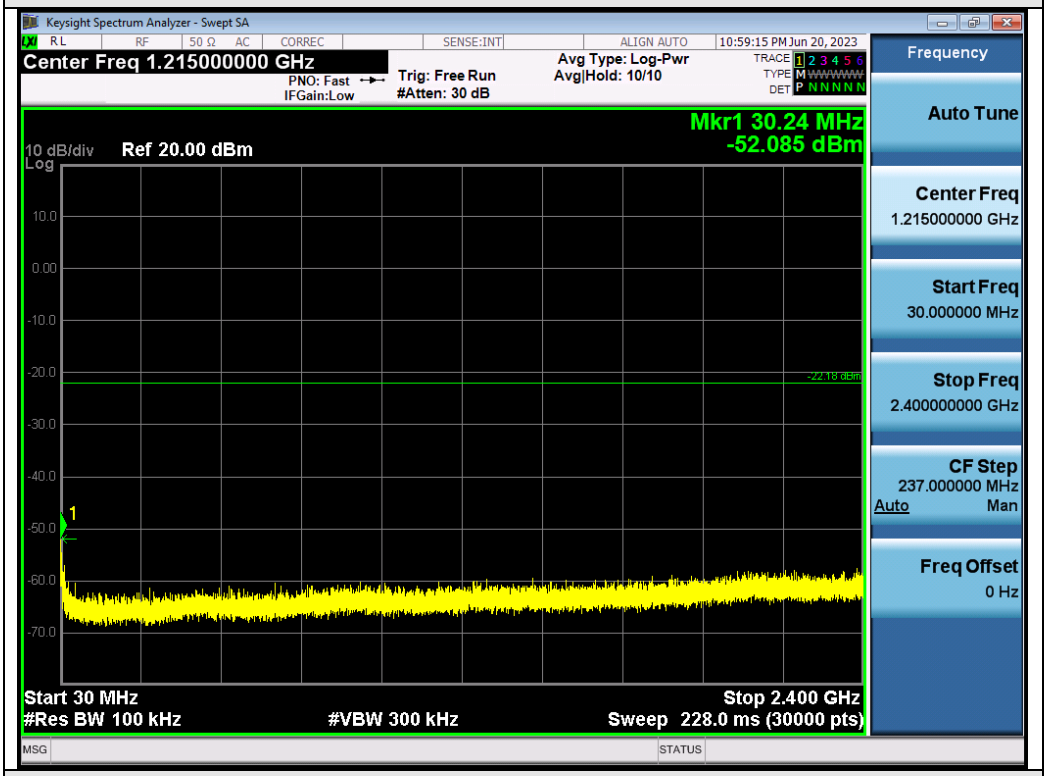
Test_Graph_EDR_ANT1_2480_3Mbps_Reference Level



Test_Graph_EDR_ANT1_2480_3Mbps_Lower Band Emissions

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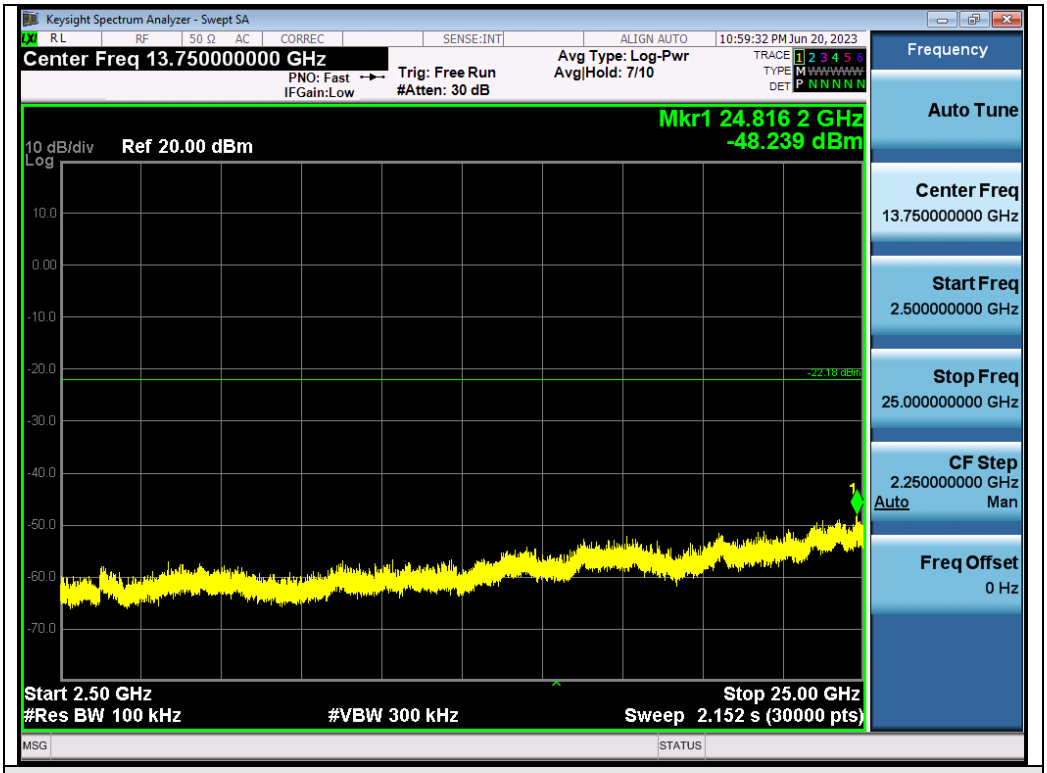

Test_Graph_EDR_ANT1_2480_3Mbps_Higher Band Emissions

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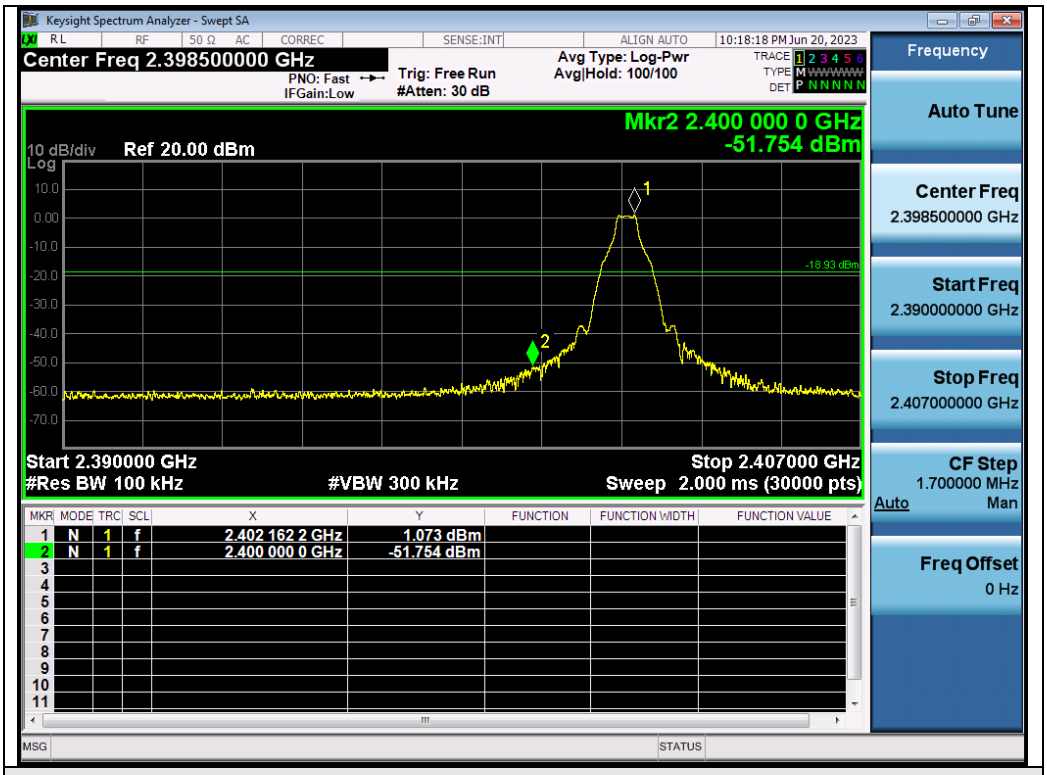
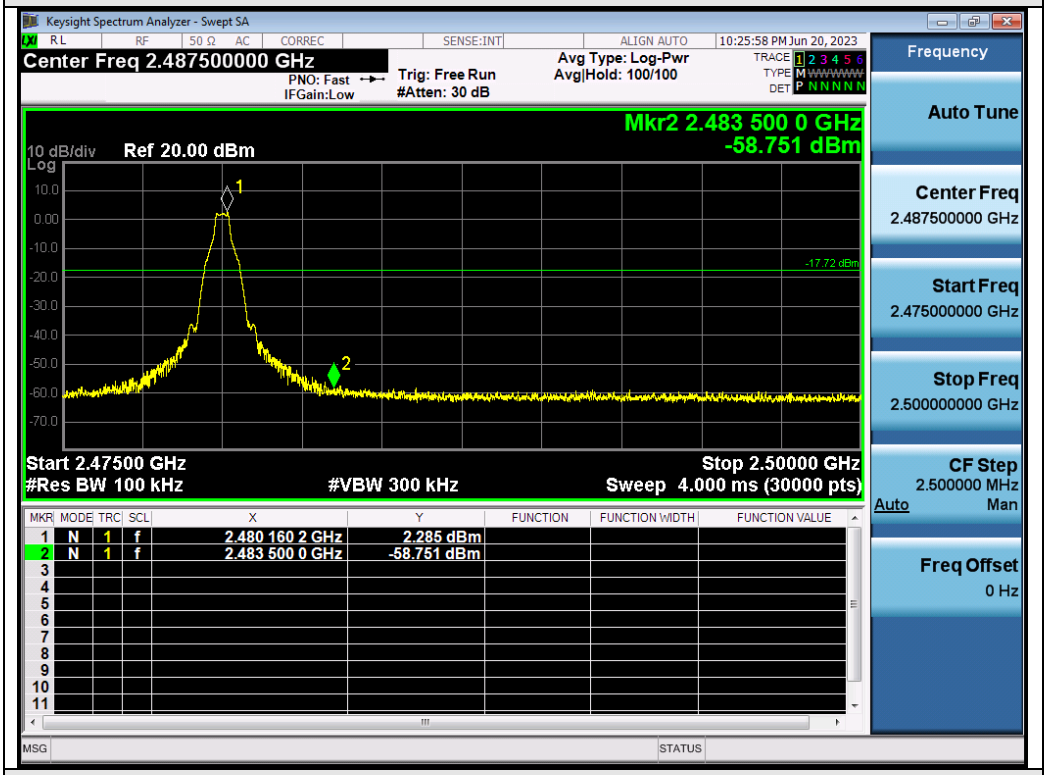
Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



Test_Graph_BR_ANT1_2402_1Mbps_Lower Band Edge Emissions



Test_Graph_BR_ANT1_2480_1Mbps_Higher Band Edge Emissions

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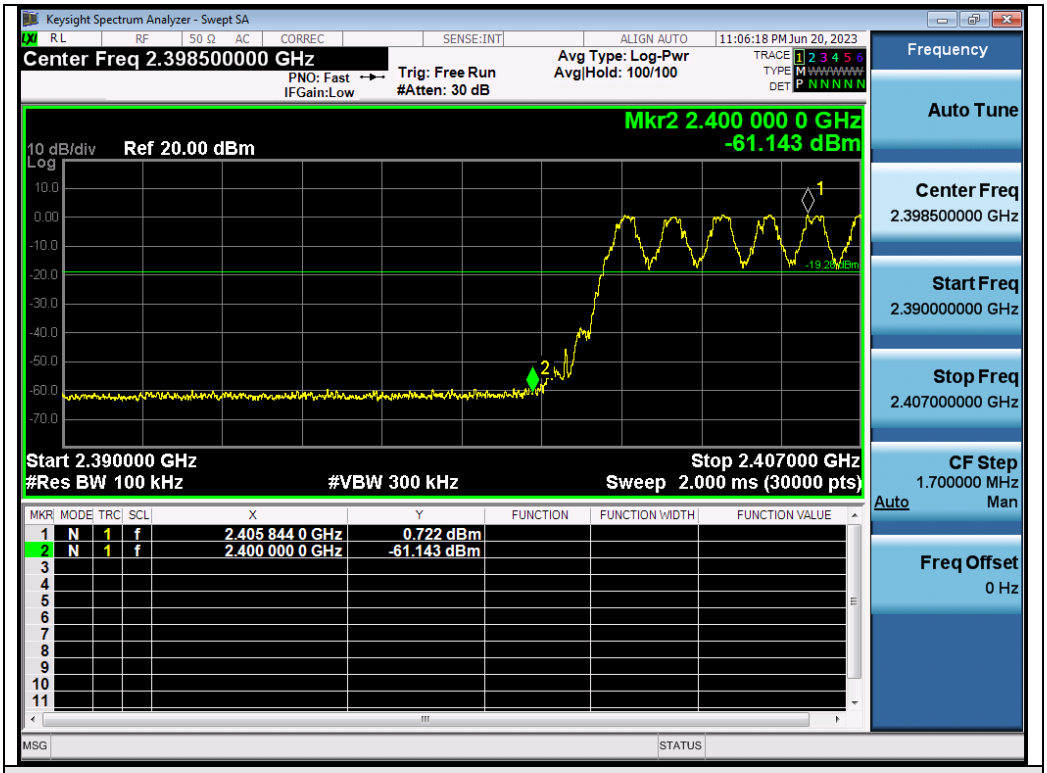
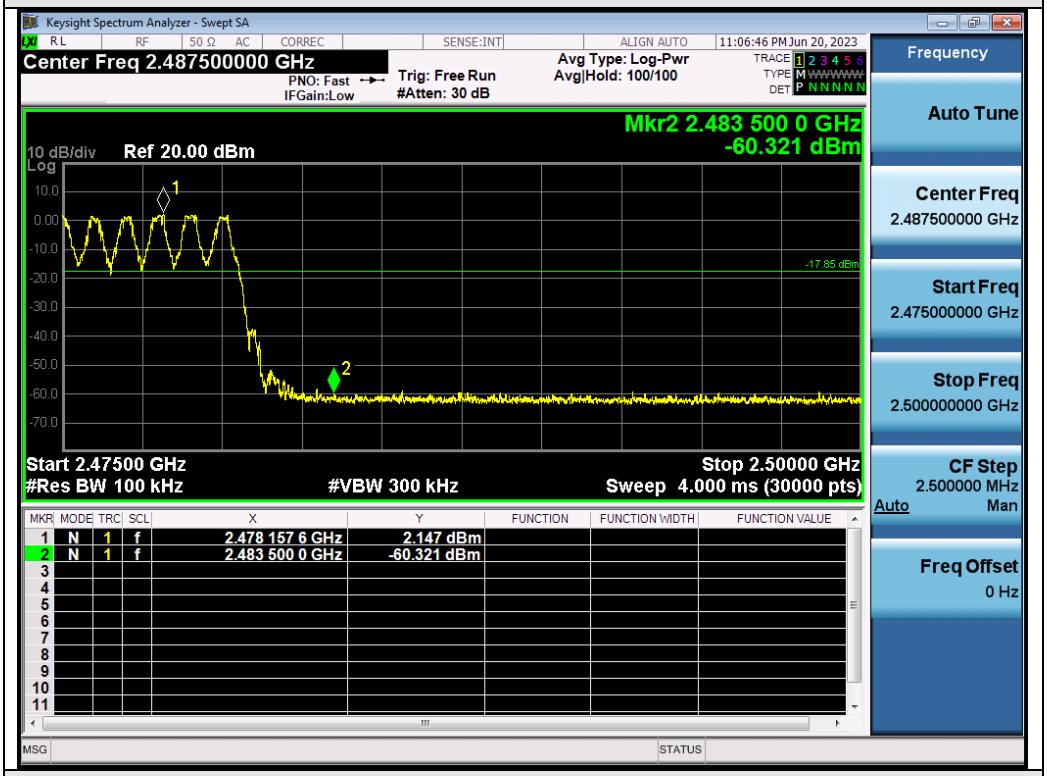


Test_Graph_BR_HOP_ANT1_NA_1Mbps_Lower Band Edge Emissions



Test_Graph_BR_HOP_ANT1_NA_1Mbps_Higher Band Edge Emissions

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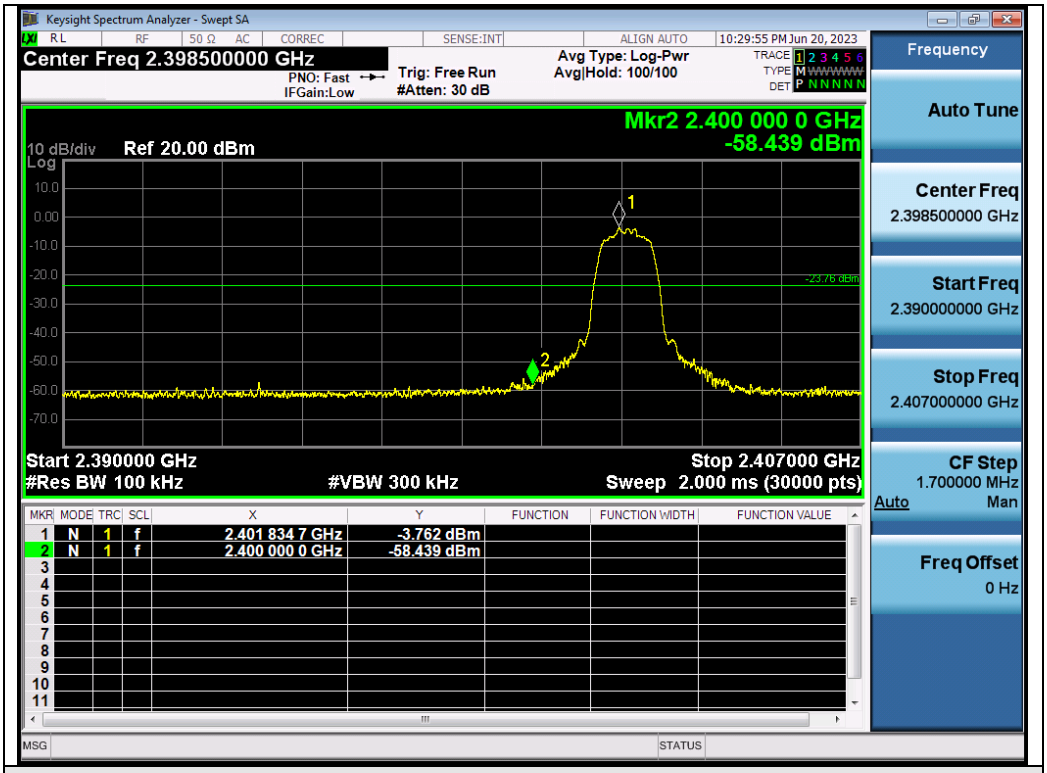
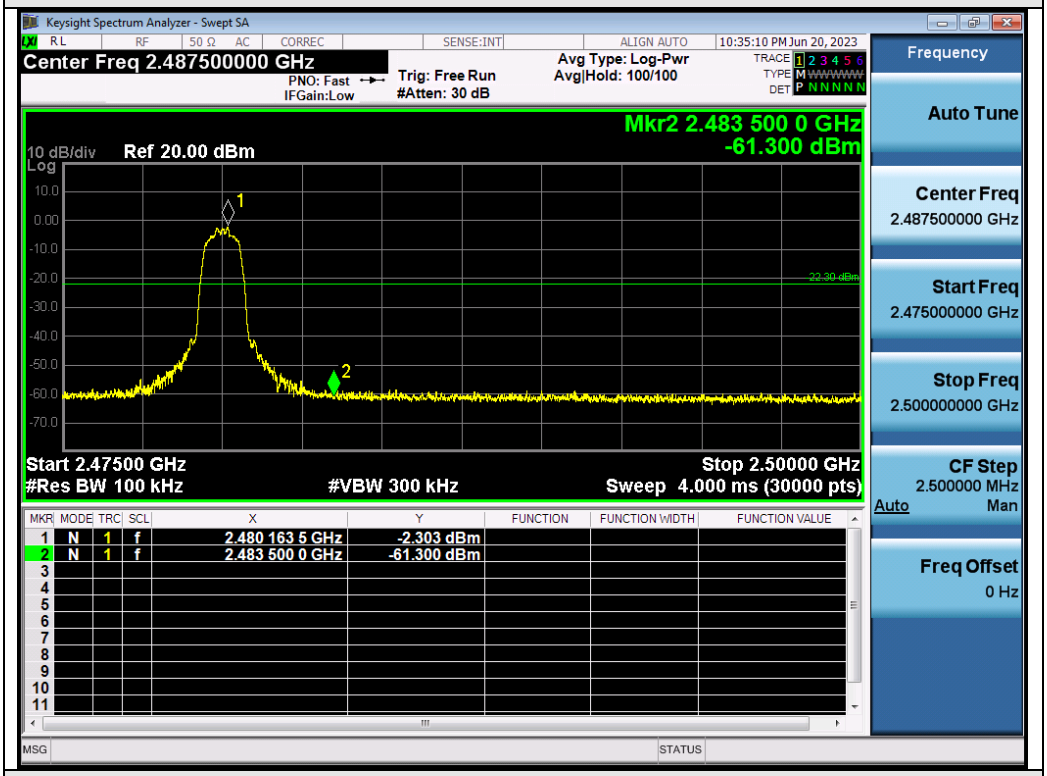


Test_Graph_EDR_ANT1_2402_2Mbps_Lower Band Edge Emissions



Test_Graph_EDR_ANT1_2480_2Mbps_Higher Band Edge Emissions

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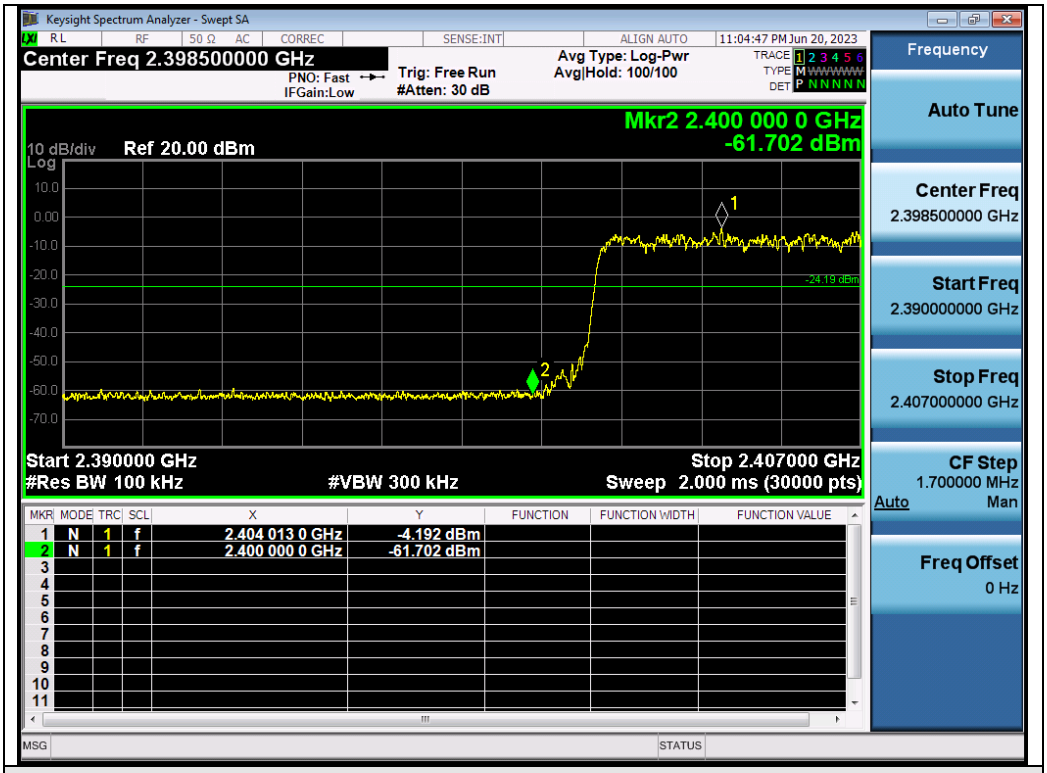
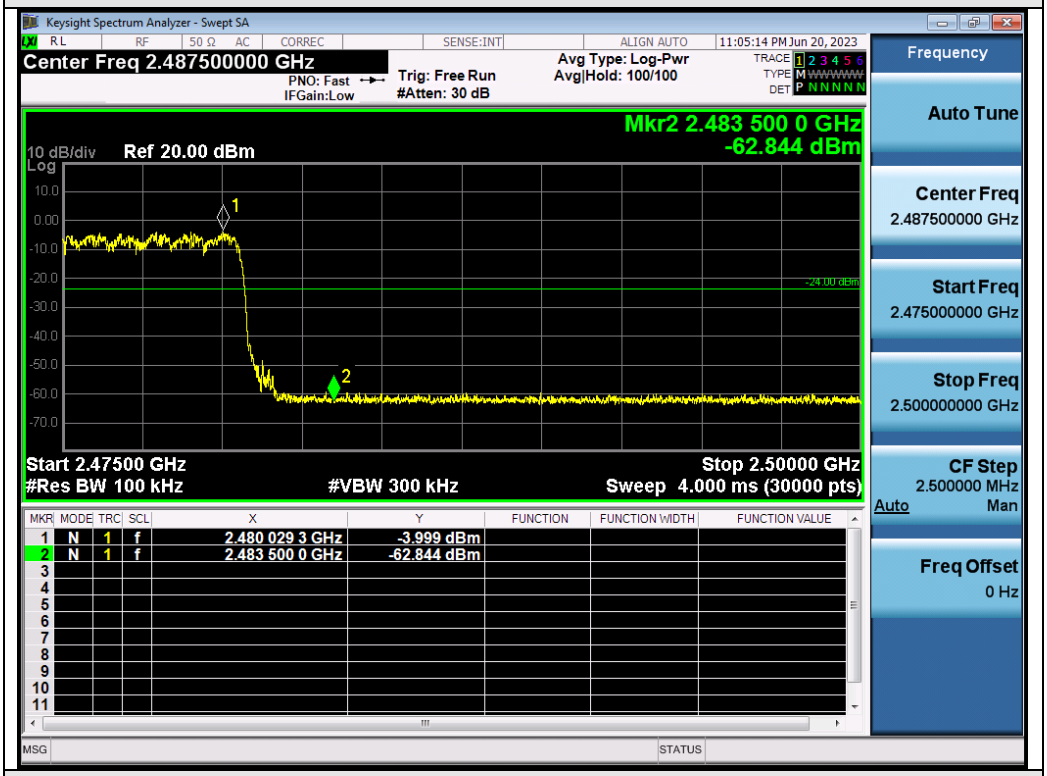


Test_Graph_EDR_HOP_ANT1_NA_2Mbps_Lower Band Edge Emissions



Test_Graph_EDR_HOP_ANT1_NA_2Mbps_Higher Band Edge Emissions

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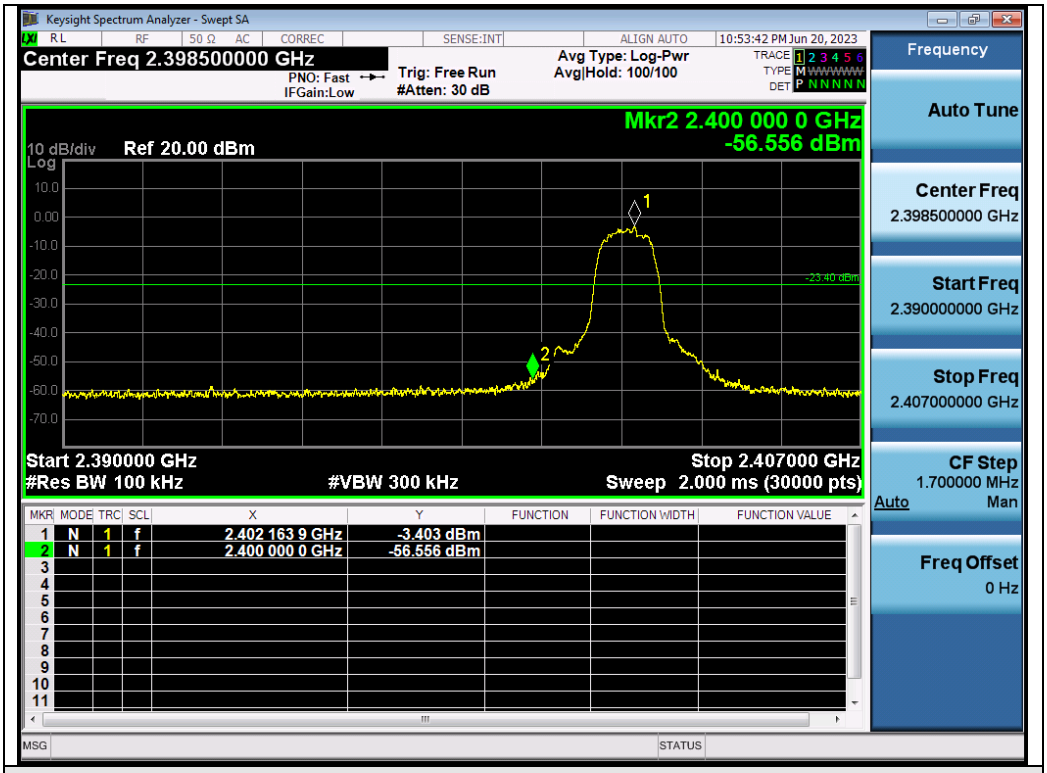
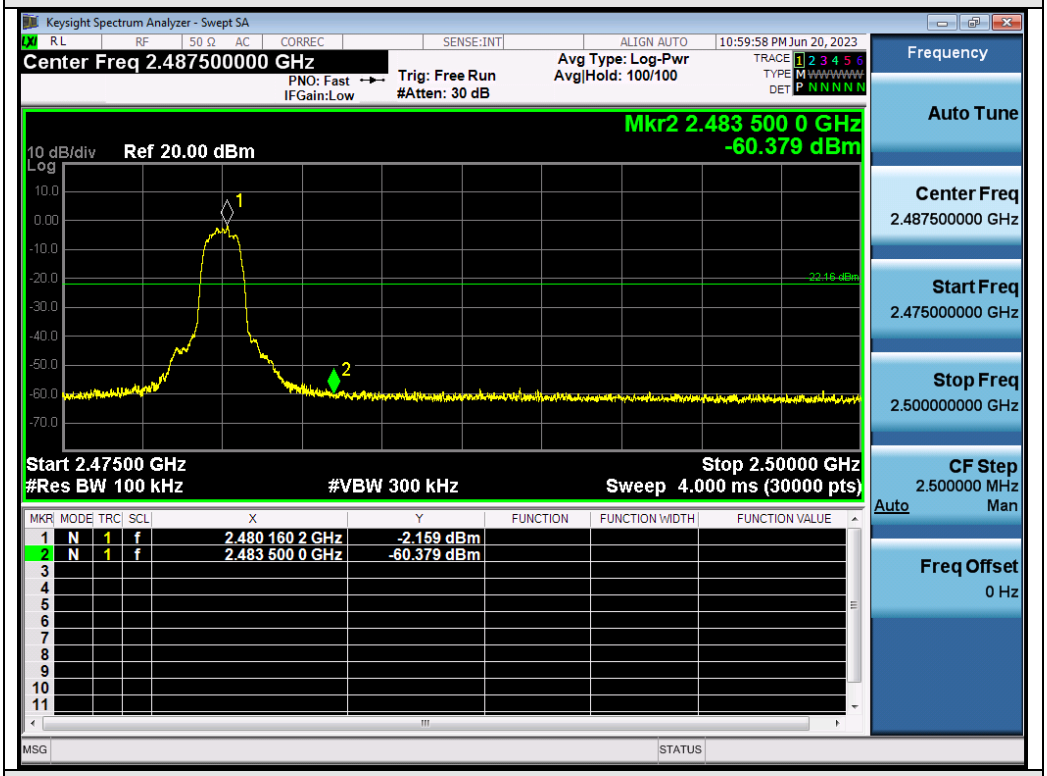


Test_Graph_EDR_ANT1_2402_3Mbps_Lower Band Edge Emissions



Test_Graph_EDR_ANT1_2480_3Mbps_Higher Band Edge Emissions

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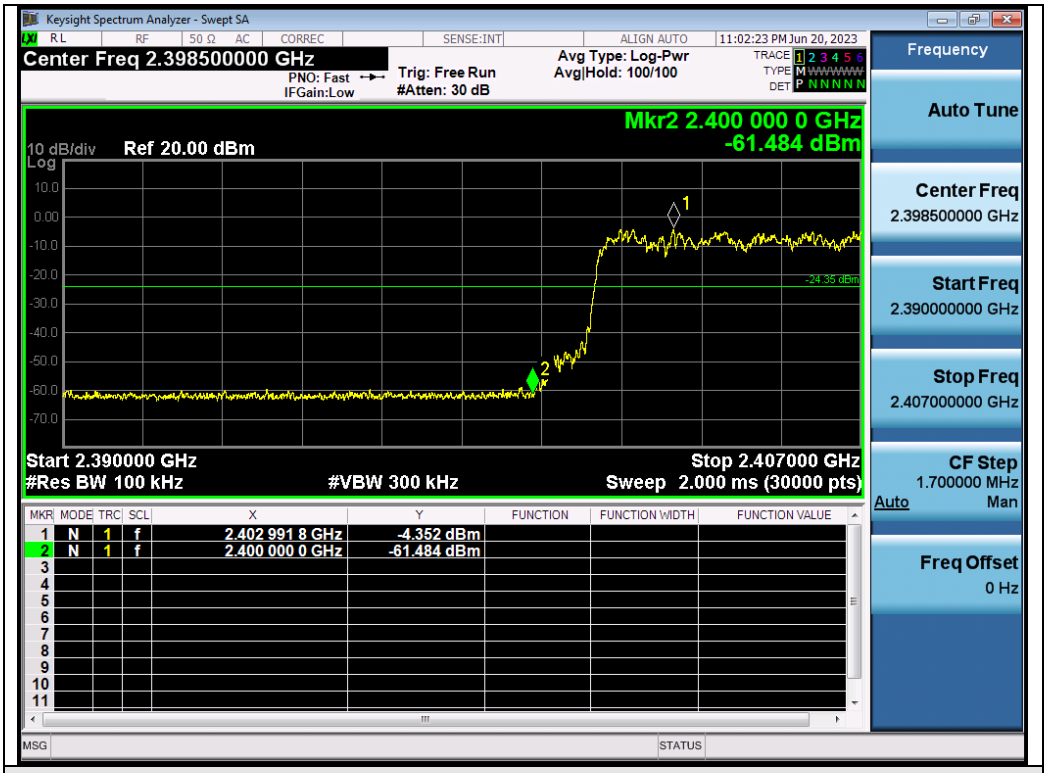
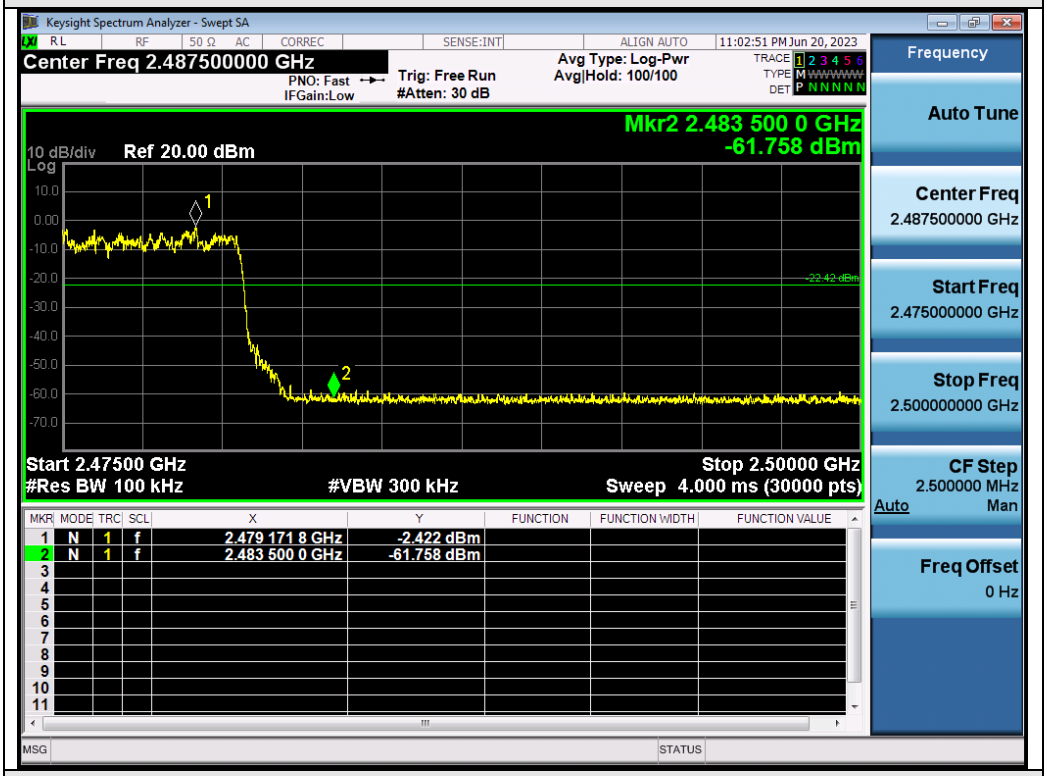


Test_Graph_EDR_HOP_ANT1_NA_3Mbps_Lower Band Edge Emissions



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 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

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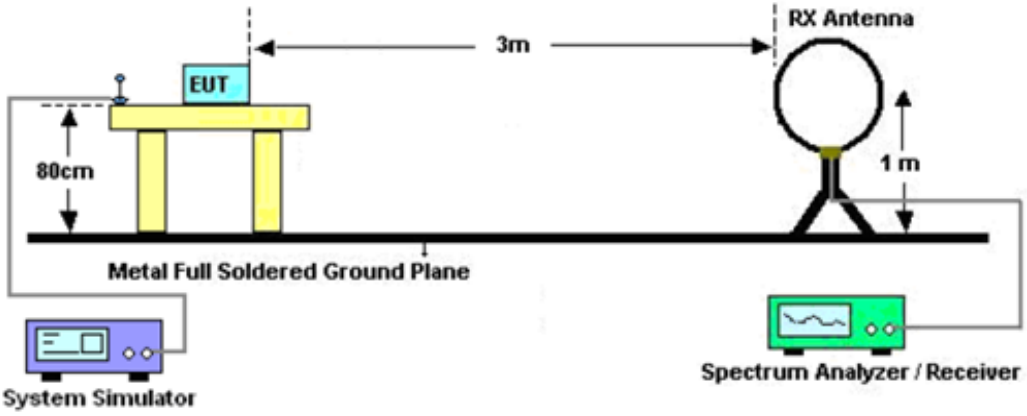
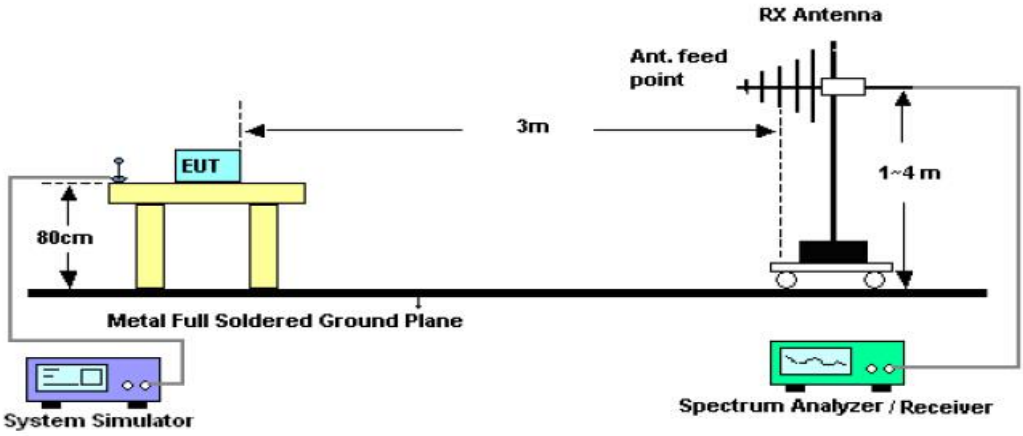
10.2. TEST SETUP

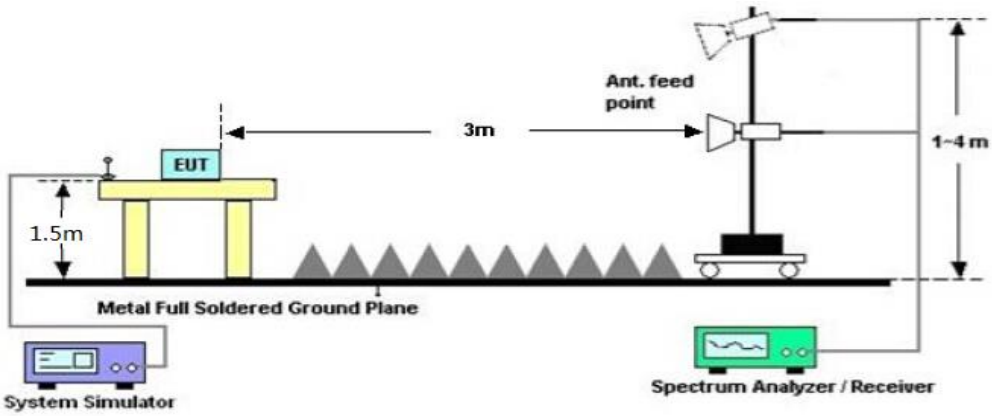
Radiated Emission Test-Setup Frequency Below 30MHz



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.

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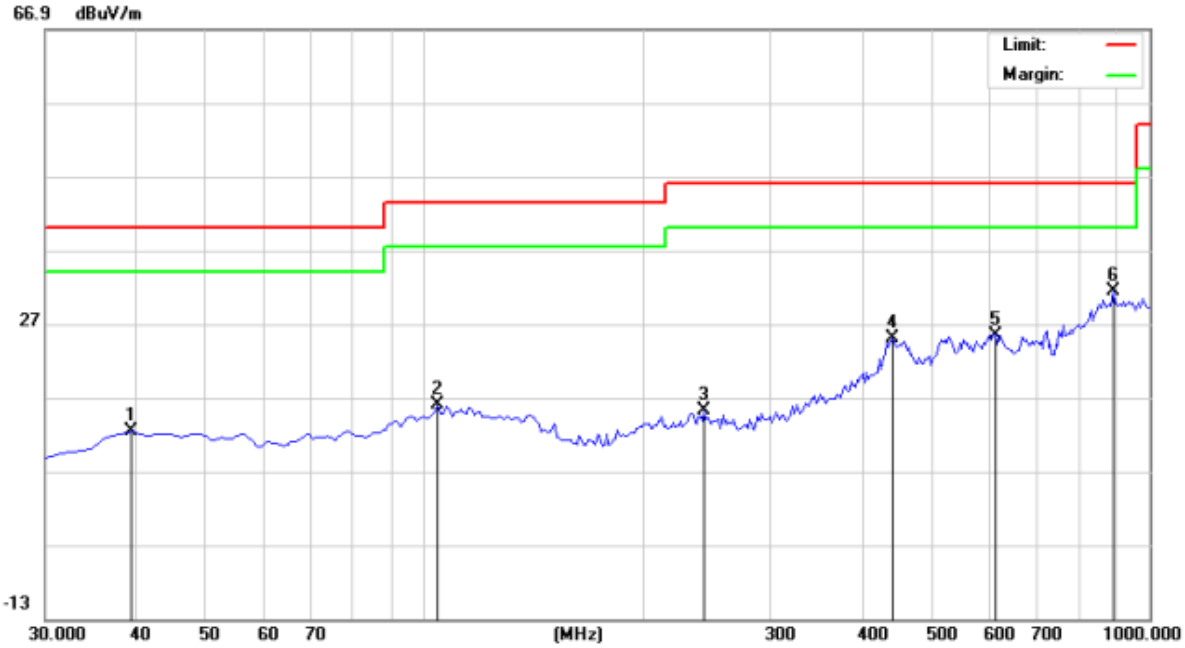
Radiated emission from 30MHz to 1000MHz

EUT	True Wireless Earbuds	**Model Name**	ET-BH036
Temperature	23.1°C	**Relative Humidity**	62.8%
Pressure	985hPa	**Test Voltage**	Normal Voltage
Test Mode	Mode 1	**Antenna**	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		39.7000	-1.46	13.77	12.31	40.00	-27.69	peak
2		104.3667	-0.28	16.24	15.96	43.50	-27.54	peak
3		243.4000	-0.19	15.30	15.11	46.00	-30.89	peak
4		442.2500	-0.09	25.02	24.93	46.00	-21.07	peak
5		610.3832	0.20	25.15	25.35	46.00	-20.65	peak
6	*	890.0667	0.82	30.56	31.38	46.00	-14.62	peak

RESULT: PASS

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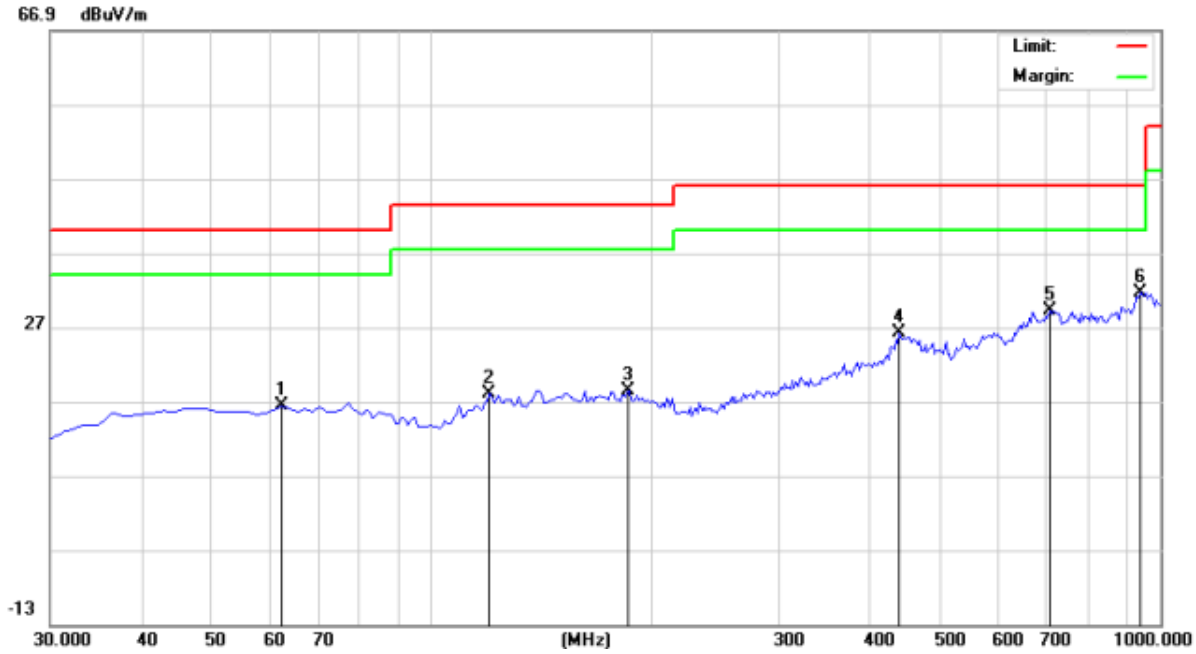
EUT	True Wireless Earbuds	**Model Name**	ET-BH036
Temperature	23.1°C	**Relative Humidity**	62.8%
Pressure	985hPa	**Test Voltage**	Normal Voltage
Test Mode	Mode 1	**Antenna**	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		62.3333	-0.77	17.08	16.31	40.00	-23.69	peak
2		120.5333	0.25	17.71	17.96	43.50	-25.54	peak
3		186.8167	0.13	18.30	18.43	43.50	-25.07	peak
4		440.6333	0.21	26.07	26.28	46.00	-19.72	peak
5		705.7667	0.82	28.30	29.12	46.00	-16.88	peak
6	*	938.5667	0.79	30.81	31.60	46.00	-14.40	peak

RESULT: PASS

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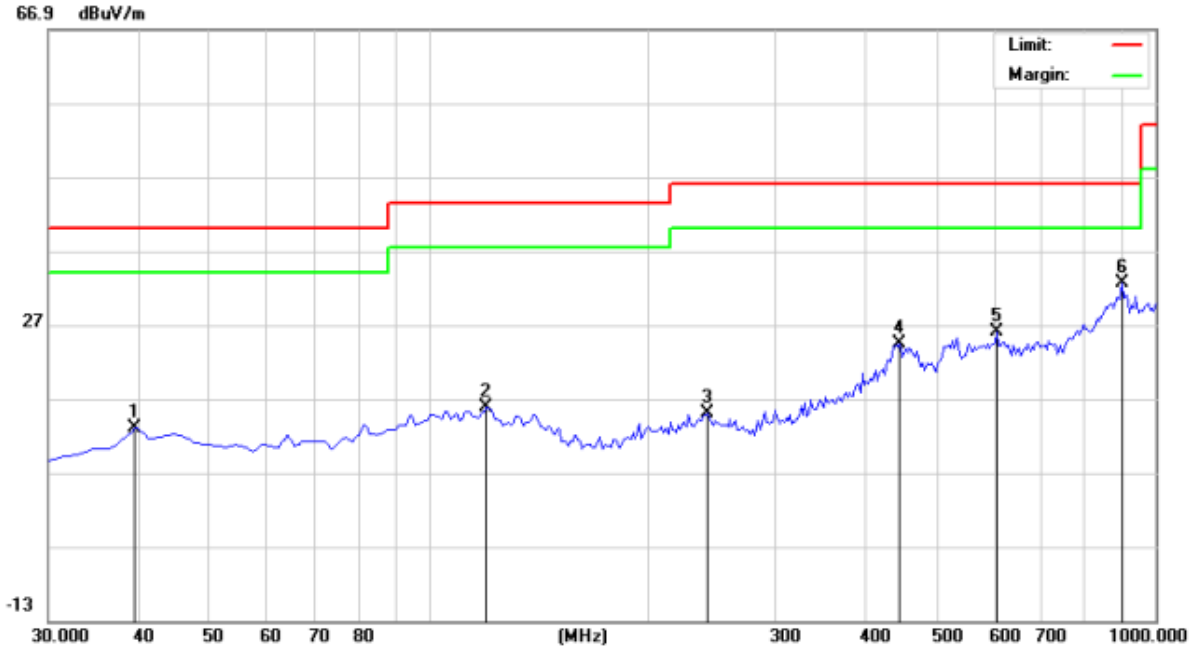
Radiated emission from 30MHz to 1000MHz

EUT	True Wireless Earbuds	**Model Name**	ET-BH036
Temperature	23.1°C	**Relative Humidity**	62.8%
Pressure	985hPa	**Test Voltage**	Normal Voltage
Test Mode	Mode 2	**Antenna**	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		39.7000	-0.82	13.77	12.95	40.00	-27.05	peak
2		120.5333	-0.58	16.37	15.79	43.50	-27.71	peak
3		241.7833	-0.33	15.35	15.02	46.00	-30.98	peak
4		443.8667	-0.47	24.96	24.49	46.00	-21.51	peak
5		607.1500	0.80	25.14	25.94	46.00	-20.06	peak
6	*	901.3833	1.04	31.61	32.65	46.00	-13.35	peak

RESULT: PASS

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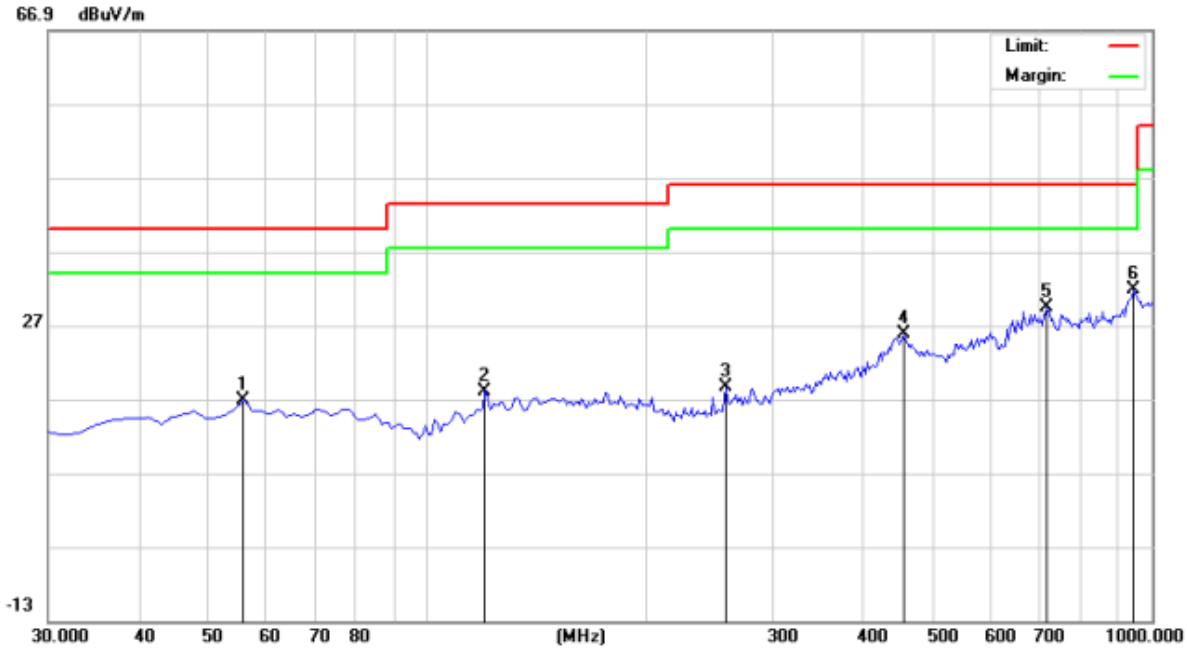
EUT	True Wireless Earbuds	**Model Name**	ET-BH036
Temperature	23.1°C	**Relative Humidity**	62.8%
Pressure	985hPa	**Test Voltage**	Normal Voltage
Test Mode	Mode 2	**Antenna**	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		55.8667	-0.16	17.06	16.90	40.00	-23.10	peak
2		120.5333	0.31	17.71	18.02	43.50	-25.48	peak
3		257.9500	0.92	17.73	18.65	46.00	-27.35	peak
4		455.1833	0.37	25.42	25.79	46.00	-20.21	peak
5		718.7000	0.75	28.75	29.50	46.00	-16.50	peak
6	*	946.6500	1.08	30.73	31.81	46.00	-14.19	peak

RESULT: PASS

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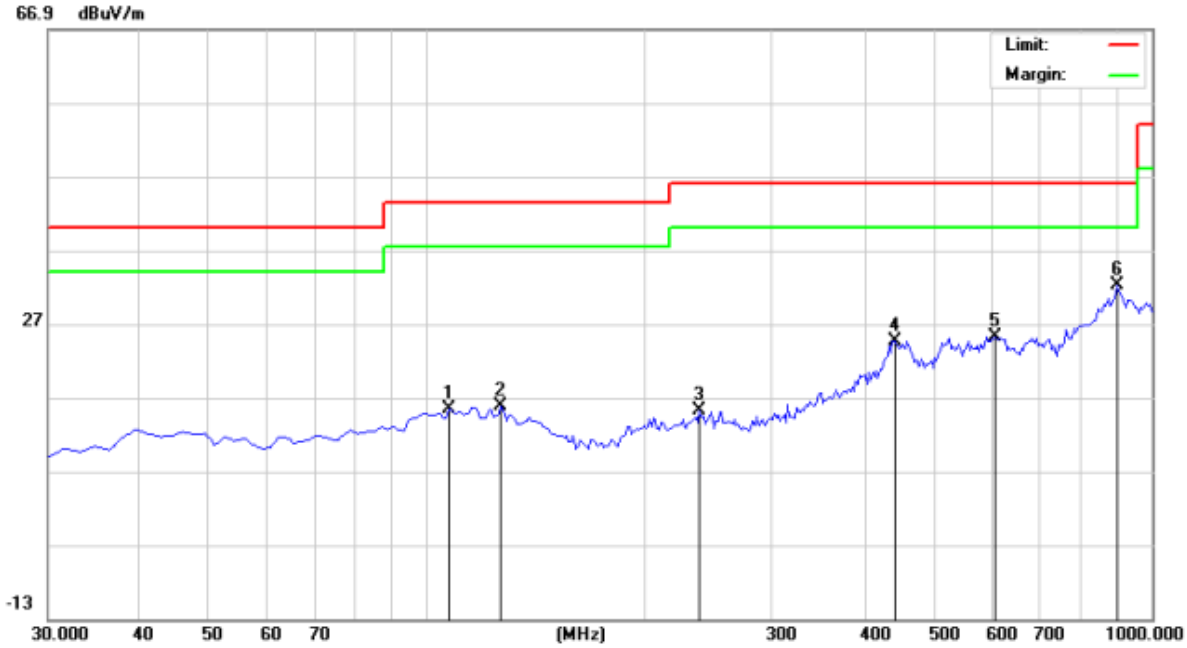
Radiated emission from 30MHz to 1000MHz

EUT	True Wireless Earbuds	**Model Name**	ET-BH036
Temperature	23.1°C	**Relative Humidity**	62.8%
Pressure	985hPa	**Test Voltage**	Normal Voltage
Test Mode	Mode 3	**Antenna**	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		107.6000	-0.80	16.28	15.48	43.50	-28.02	peak
2		127.0000	-0.27	15.98	15.71	43.50	-27.79	peak
3		238.5500	-0.15	15.33	15.18	46.00	-30.82	peak
4		442.2500	-0.38	25.02	24.64	46.00	-21.36	peak
5		612.0000	0.09	25.16	25.25	46.00	-20.75	peak
6	*	894.9167	1.04	31.16	32.20	46.00	-13.80	peak

RESULT: PASS

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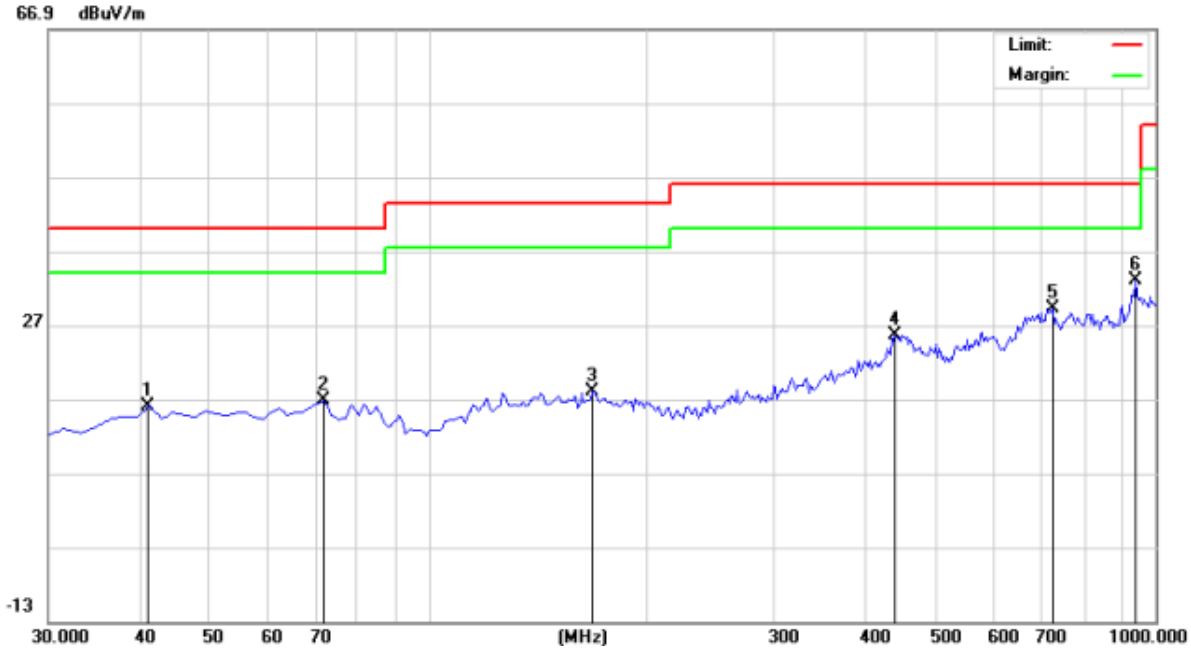
EUT	True Wireless Earbuds	**Model Name**	ET-BH036
Temperature	23.1°C	**Relative Humidity**	62.8%
Pressure	985hPa	**Test Voltage**	Normal Voltage
Test Mode	Mode 3	**Antenna**	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		41.3167	-0.86	16.91	16.05	40.00	-23.95	peak
2		72.0333	-0.25	16.98	16.73	40.00	-23.27	peak
3		169.0333	-0.39	18.34	17.95	43.50	-25.55	peak
4		440.6333	-0.48	26.07	25.59	46.00	-20.41	peak
5		721.9333	0.55	28.62	29.17	46.00	-16.83	peak
6	*	941.8000	2.02	30.93	32.95	46.00	-13.05	peak

RESULT: PASS

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

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

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Radiated emission above 1GHz

EUT	True Wireless Earbuds	**Model Name**	ET-BH036
Temperature	22.4°C	**Relative Humidity**	59.1%
Pressure	985hPa	**Test Voltage**	Normal Voltage
Test Mode	Mode 1	**Antenna**	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	51.79	0.08	51.87	74	-22.13	peak
4804.000	40.37	0.08	40.45	54	-13.55	AVG
7206.000	48.76	2.21	50.97	74	-23.03	peak
7206.000	37.45	2.21	39.66	54	-14.34	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	True Wireless Earbuds	**Model Name**	ET-BH036
Temperature	22.4°C	**Relative Humidity**	59.1%
Pressure	985hPa	**Test Voltage**	Normal Voltage
Test Mode	Mode 1	**Antenna**	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	48.76	0.08	48.84	74	-25.16	peak
4804.000	37.21	0.08	37.29	54	-16.71	AVG
7206.000	46.85	2.21	49.06	74	-24.94	peak
7206.000	36.87	2.21	39.08	54	-14.92	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	True Wireless Earbuds	**Model Name**	ET-BH036
Temperature	22.4°C	**Relative Humidity**	59.1%
Pressure	985hPa	**Test Voltage**	Normal Voltage
Test Mode	Mode 2	**Antenna**	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4882.000	50.08	0.14	50.22	74	-23.78	peak
4882.000	37.62	0.14	37.76	54	-16.24	AVG
7323.000	47.96	2.36	50.32	74	-23.68	peak
7323.000	37.11	2.36	39.47	54	-14.53	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	True Wireless Earbuds	**Model Name**	ET-BH036
Temperature	22.4°C	**Relative Humidity**	59.1%
Pressure	985hPa	**Test Voltage**	Normal Voltage
Test Mode	Mode 2	**Antenna**	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4882.000	47.93	0.14	48.07	74	-25.93	peak
4882.000	39.25	0.14	39.39	54	-14.61	AVG
7323.000	45.47	2.36	47.83	74	-26.17	peak
7323.000	37.17	2.36	39.53	54	-14.47	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	True Wireless Earbuds	**Model Name**	ET-BH036
Temperature	22.4°C	**Relative Humidity**	59.1%
Pressure	985hPa	**Test Voltage**	Normal Voltage
Test Mode	Mode 3	**Antenna**	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	50.13	0.22	50.35	74	-23.65	peak
4960.000	40.67	0.22	40.89	54	-13.11	AVG
7440.000	46.97	2.64	49.61	74	-24.39	peak
7440.000	37.62	2.64	40.26	54	-13.74	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	True Wireless Earbuds	**Model Name**	ET-BH036
Temperature	22.4°C	**Relative Humidity**	59.1%
Pressure	985hPa	**Test Voltage**	Normal Voltage
Test Mode	Mode 3	**Antenna**	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	47.53	0.22	47.75	74	-26.25	peak
4960.000	37.04	0.22	37.26	54	-16.74	AVG
7440.000	46.84	2.64	49.48	74	-24.52	peak
7440.000	35.97	2.64	38.61	54	-15.39	AVG
Remark:						
Factor = Antenna Factor + Cable 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=Emission Level-Limit.

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

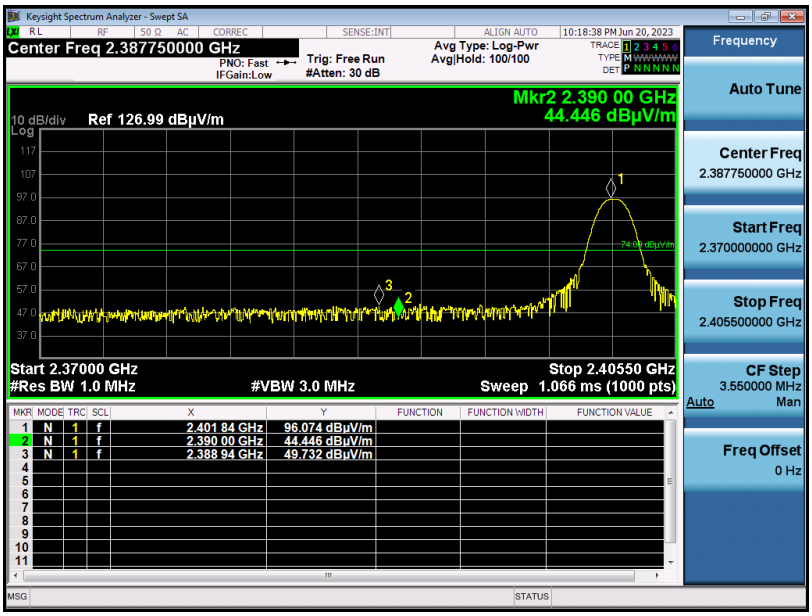
All test modes had been tested. The GFSK modulation is the worst case and recorded in the report.

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.

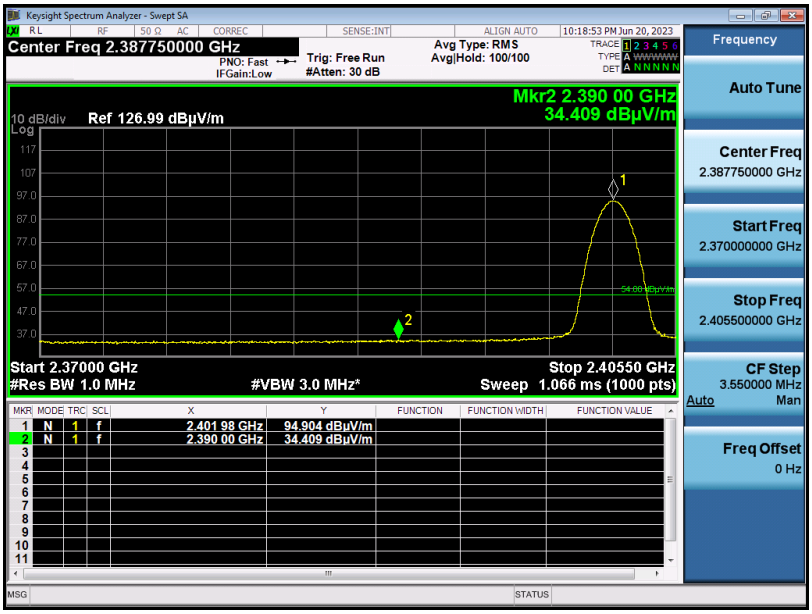
Test result for band edge emission at restricted bands

EUT	True Wireless Earbuds	**Model Name**	ET-BH036
Temperature	24°C	**Relative Humidity**	54%
Pressure	985hPa	**Test Voltage**	Normal Voltage
Test Mode	Mode 1	**Antenna**	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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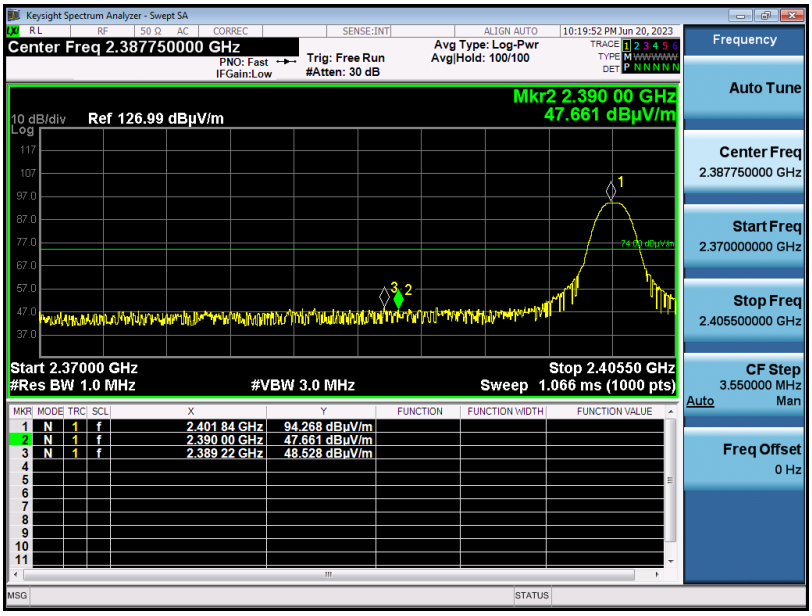
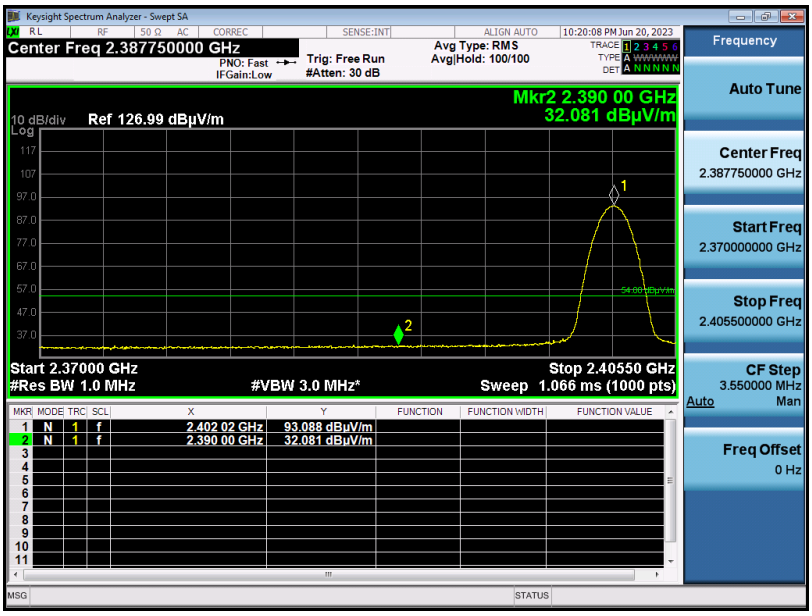
EUT	True Wireless Earbuds	Model Name	ET-BH036
Temperature	24°C	Relative Humidity	54%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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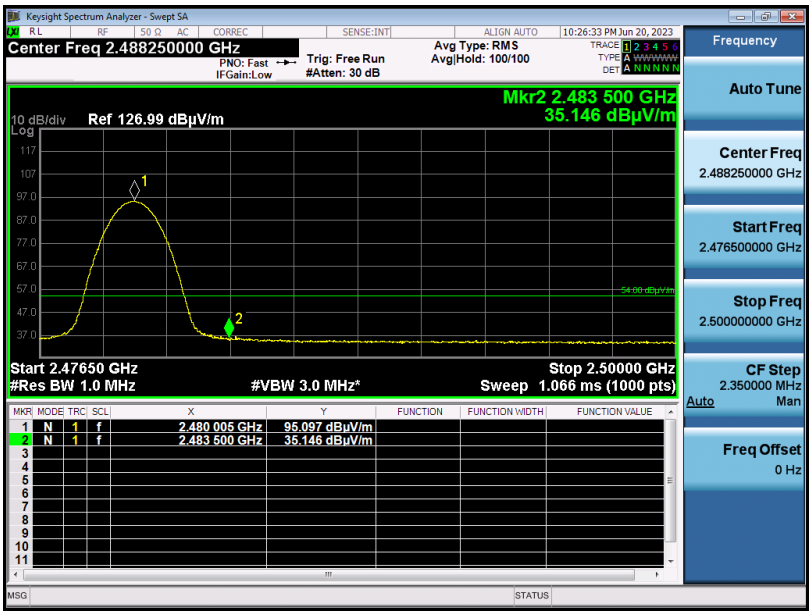
EUT	True Wireless Earbuds	**Model Name**	ET-BH036
Temperature	24°C	**Relative Humidity**	54%
Pressure	985hPa	**Test Voltage**	Normal Voltage
Test Mode	Mode 3	**Antenna**	Horizontal

Test Graph for Peak Measurement

Test Graph for Average Measurement



RESULT: PASS

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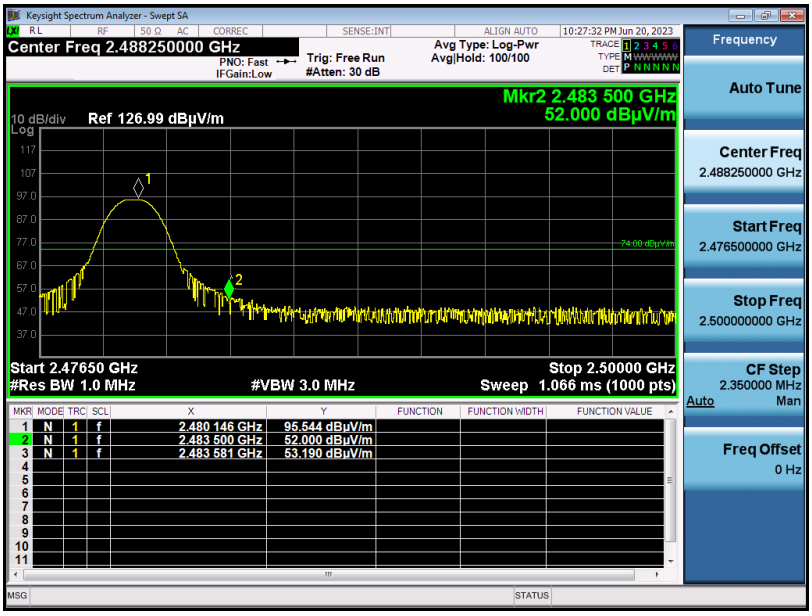
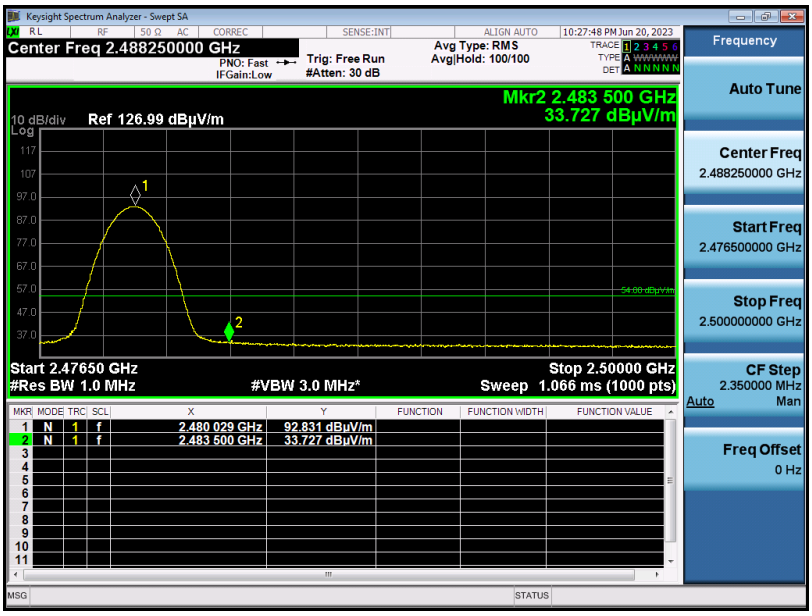
EUT	True Wireless Earbuds	Model Name	ET-BH036
Temperature	24°C	Relative Humidity	54%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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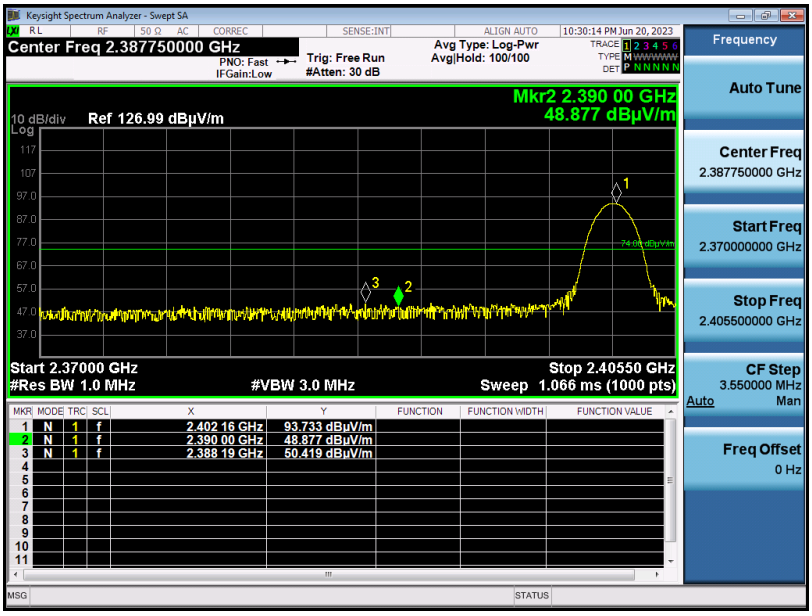
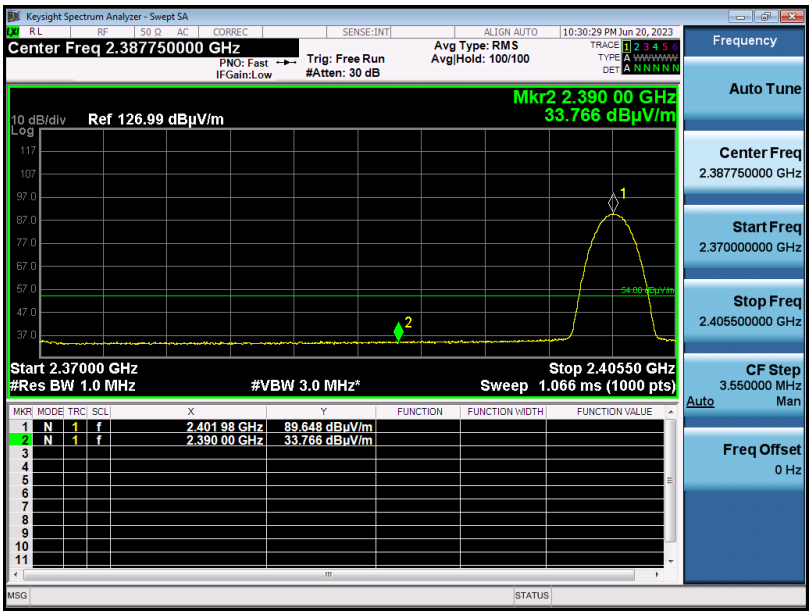
EUT	True Wireless Earbuds	**Model Name**	ET-BH036
Temperature	24°C	**Relative Humidity**	54%
Pressure	985hPa	**Test Voltage**	Normal Voltage
Test Mode	Mode 4	**Antenna**	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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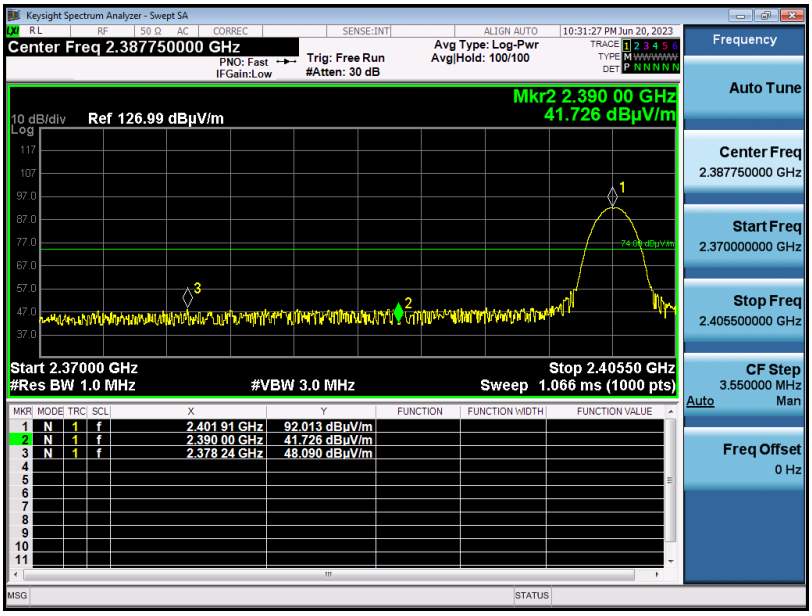
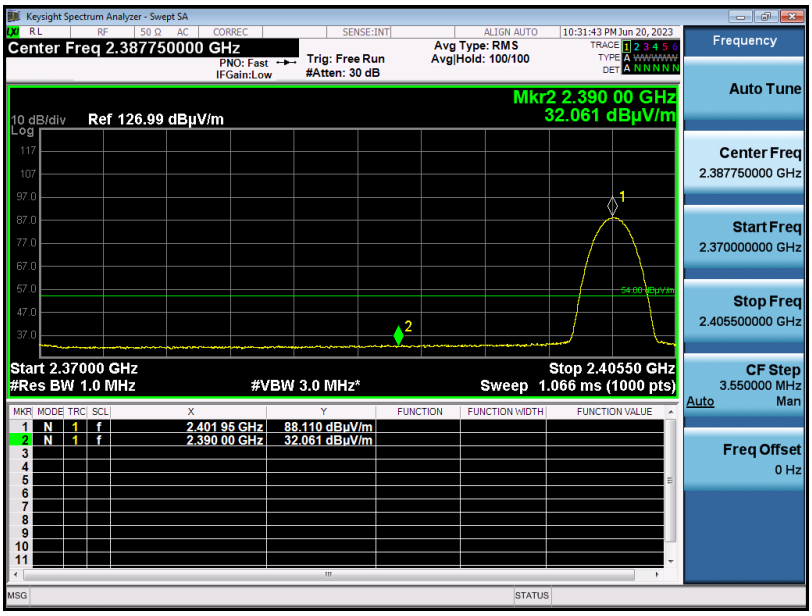
EUT	True Wireless Earbuds	**Model Name**	ET-BH036
Temperature	24°C	**Relative Humidity**	54%
Pressure	985hPa	**Test Voltage**	Normal Voltage
Test Mode	Mode 4	**Antenna**	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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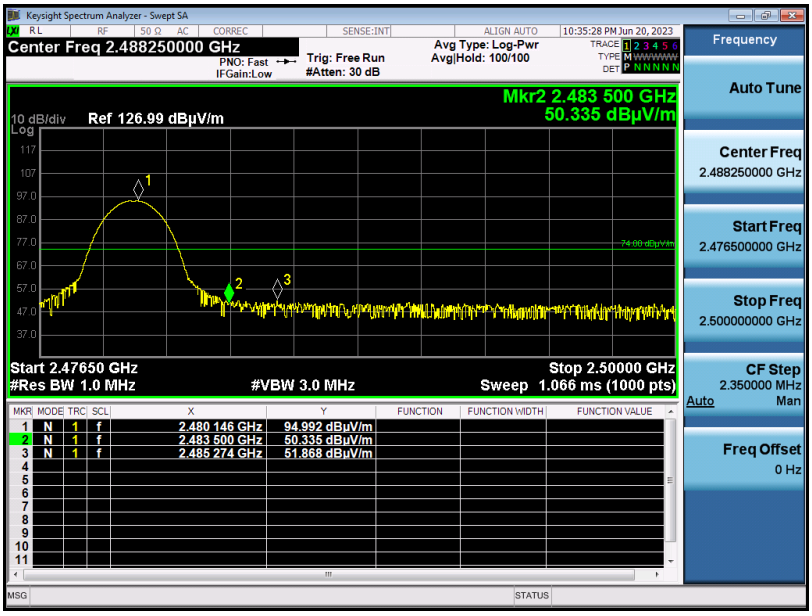
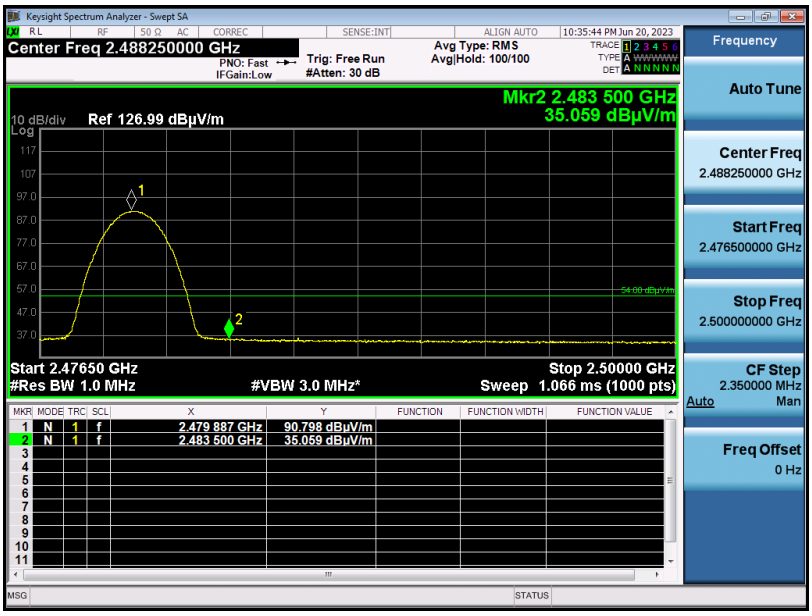
EUT	True Wireless Earbuds	**Model Name**	ET-BH036
Temperature	24°C	**Relative Humidity**	54%
Pressure	985hPa	**Test Voltage**	Normal Voltage
Test Mode	Mode 6	**Antenna**	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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