

TEST REPORT

Applicant: Chengdu Xiaochen Technology Co., Ltd
EUT Description: VERTU META3 5G DIGITAL MOBILE PHONE
Model: VTL-202403
Brand: VERTU
FCC ID: 2BGHD-VTL202403
Standards: FCC 47 CFR Part 15 Subpart C
Date of Receipt: 2025/08/28
Date of Test: 2025/08/28 to 2025/10/20
Date of Issue: 2025/11/05

TOWE. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

the results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of the model are manufactured with identical electrical and mechanical components. All sample tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. without written approval of TOWE, the test report shall not be reproduced except in full.



Jim Huang
Approved By:



Carey Chen
Reviewed By:

Revision History

Rev.	Issue Date	Description	Revised by
01	2025/11/05	Original	Carey Chen

Summary of Test Results

Clause	FCC Part	Test Items	Result
4.1	§15.203/15.247(b)	Antenna Requirement	PASS
4.2	§15.207	AC Power Line Conducted Emission	PASS
4.3	§15.247 (b)(3)	Output Power	PASS
4.4	§15.247 (a)(2)	Occupied Bandwidth	Reporting purposes only
4.5	§15.247 (e)	Power Spectral Density	PASS
4.6	§15.247(d)	Band Edge for Conducted Emissions	PASS
4.7	§15.247(d)	Spurious RF Conducted Emissions	PASS
4.8	§15.205/15.209	Radiated Spurious emissions and Band Edge	PASS
Test Method: ANSI C63.10:2020, KDB 558074 D01 15.247 Mesa Guidance v05r02. Remark: Pass is EUT meets standard requirements.			

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1 General Description

1.1 Lab Information

1.1.1 Testing Location

These measurements tests were conducted at the Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. facility located at F401 and F101, Building E, Hongwei Industrial Zone, Liuxian 3rd Road, Bao'an District, Shenzhen, China. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014

Tel.: +86-755-27212361

Contact Email: info@towewireless.com

1.1.2 Test Facility / Accreditations

A2LA (Certificate Number: 7088.01)

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

FCC Designation No.: CN1353

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized as an accredited testing laboratory. Designation Number: CN1353.

ISED CAB identifier: CN0152

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0152

Company Number: 31000

1.2 Client Information

1.2.1 Applicant

Applicant:	Chengdu Xiaochen Technology Co., Ltd
Address:	3rd Floor,Building B15,Ganzhizhongguo Chengdu Center,No.777 HuafuAvenue Shuangliu County,Chengdu City,Sichuan Province,China

1.2.2 Manufacturer

Manufacturer:	VERTU INTERNATIONAL CORPORATION LIMITED
Address:	Chase Business Centre 39-41 Chase Side LondonEngland N14 5BP

1.3 Product Information

EUT Description:	VERTU META3 5G DIGITAL MOBILE PHONE		
Model:	VTL-202403		
Brand:	VERTU		
Hardware Version:	P10		
Software Version:	15.0.1_6.01.01.01		
IMEI:	RF Conducted	357125130004876	
	RSE & AC power line	357125130005048	
Modulation Type:	802.11b:	DSSS-DBPSK, DQPSK, CCK	
	802.11g/n:	OFDM-BPSK, QPSK, 16QAM, 64QAM	
	802.11ax:	OFDM/OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM	
	802.11be:	OFDM/OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM	
Smart System:	☒ SISO	802.11b/g/n/ax/be	/
	☒ MIMO	802.11n/ax/be	(2)TX(2)RX
	☒ CDD	802.11b/g	(2)TX(2)RX
Frequency Range:	2400 ~ 2483.5MHz		
Channel Frequency:	20M bandwidth Channel: 2412 ~ 2462MHz 40M bandwidth Channel: 2422 ~ 2452MHz		
Channel Number:	11:	802.11b/g/n20/ax20/be20	
	7:	802.11n40/ax40/be40	
Antenna Type:	☐ External, ☒ Integrated		
Antenna Gain:	Ant4 (dBi)	Ant6 (dBi)	
	-2.21	-3.2	
Remark: The above EUT's information was declared by applicant, please refer to the specifications or user's manual for more detailed description.			

2 Test Configuration

2.1 Test Channel

Frequency Channels							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz	/	
Remark:							
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:							
Modulation Type		Test Channel		Test Frequency			
802.11b/g/n20 /ax20/be20		The Lowest channel (CH1)		2412MHz			
		The Middle channel (CH6)		2437MHz			
		The Highest channel (CH11)		2462MHz			
Modulation Type		Test Channel		Test Frequency			
802.11n40/ ax40/be40		The Lowest channel (CH3)		2422MHz			
		The Middle channel (CH6)		2437MHz			
		The Highest channel (CH9)		2452MHz			

2.2 Worst-case configuration and Mode

Modulation Type	SISO - Data Rate	CDD/MIMO(2)TX(2)RX Data Rate
802.11b	1 Mbps	2 Mbps
802.11g	6 Mbps	12 Mbps
802.11n20	MCS0 (6.5 Mbps)	MCS0 (13 Mbps)
802.11n40	MCS0 (13.5 Mbps)	MCS0 (27 Mbps)
802.11ax20	MCS0 (8.6 Mbps)	MCS0 (17.2 Mbps)
802.11ax40	MCS0 (17.2 Mbps)	MCS0 (34.4 Mbps)
802.11be20	MCS0 (8.6 Mbps)	MCS0 (17.2 Mbps)
802.11be40	MCS0 (17.2 Mbps)	MCS0 (34.4 Mbps)
Transmitting mode:	Keep the EUT was programmed to be in continuously transmitting mode.	
Normal Link:	Keep the EUT operation to normal function.	

2.3 Support Unit used in test

The EUT has been tested as an independent unit.

2.4 Test Environment

Temperature:	Normal: 15°C ~ 35°C
Humidity:	45 ~ 56 % RH Ambient
Voltage:	DC 3.79V
AC Voltage:	AC 120V/60Hz for Conducted Emissions
Remark: The testing environment is within the scope of the EUT user manual and meets the requirements of the standard testing environment.	

2.5 Test RF Cable

For all conducted test items: The offset level is set spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

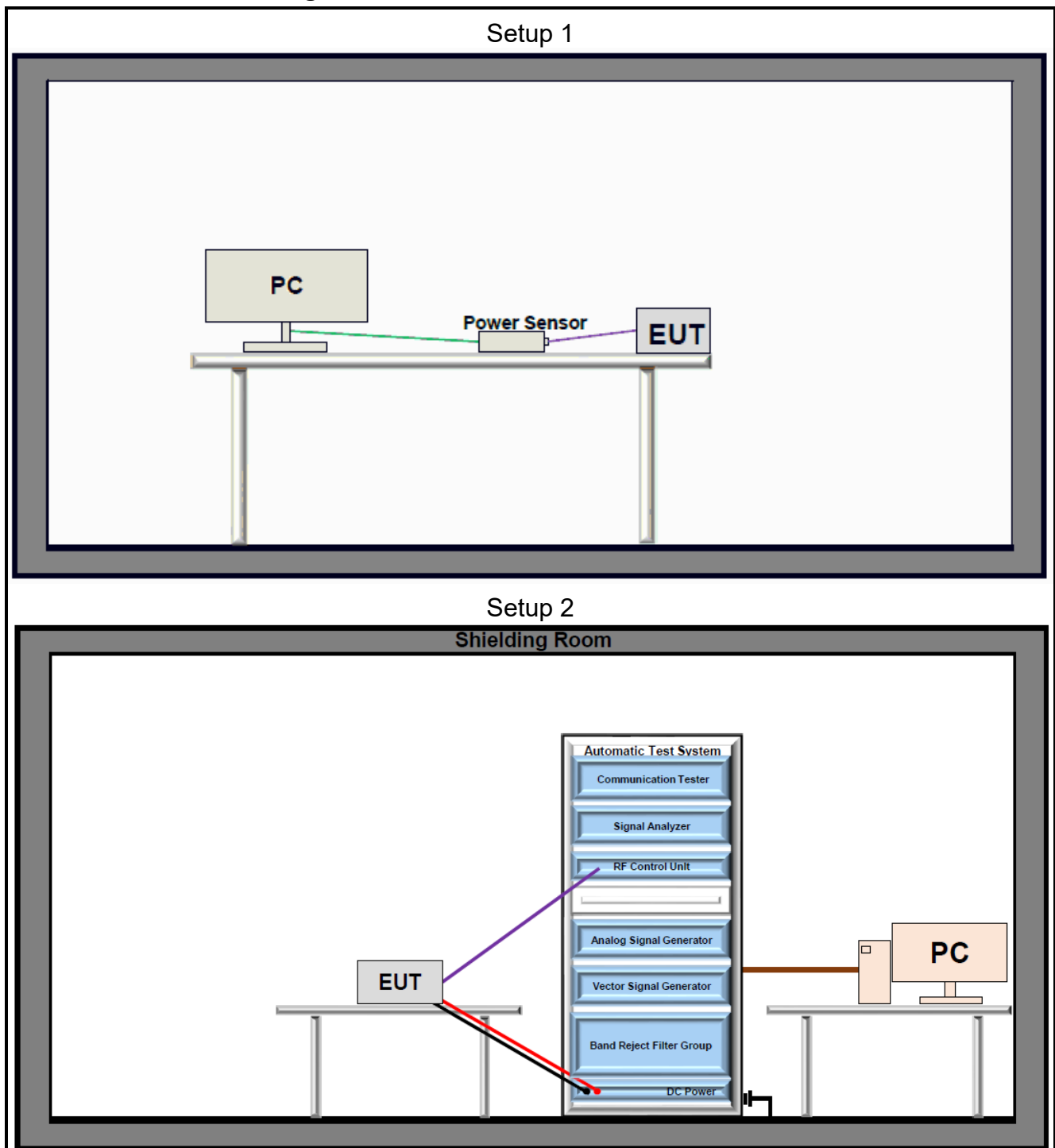
Offset = RF cable loss + attenuator factor.

2.6 Modifications

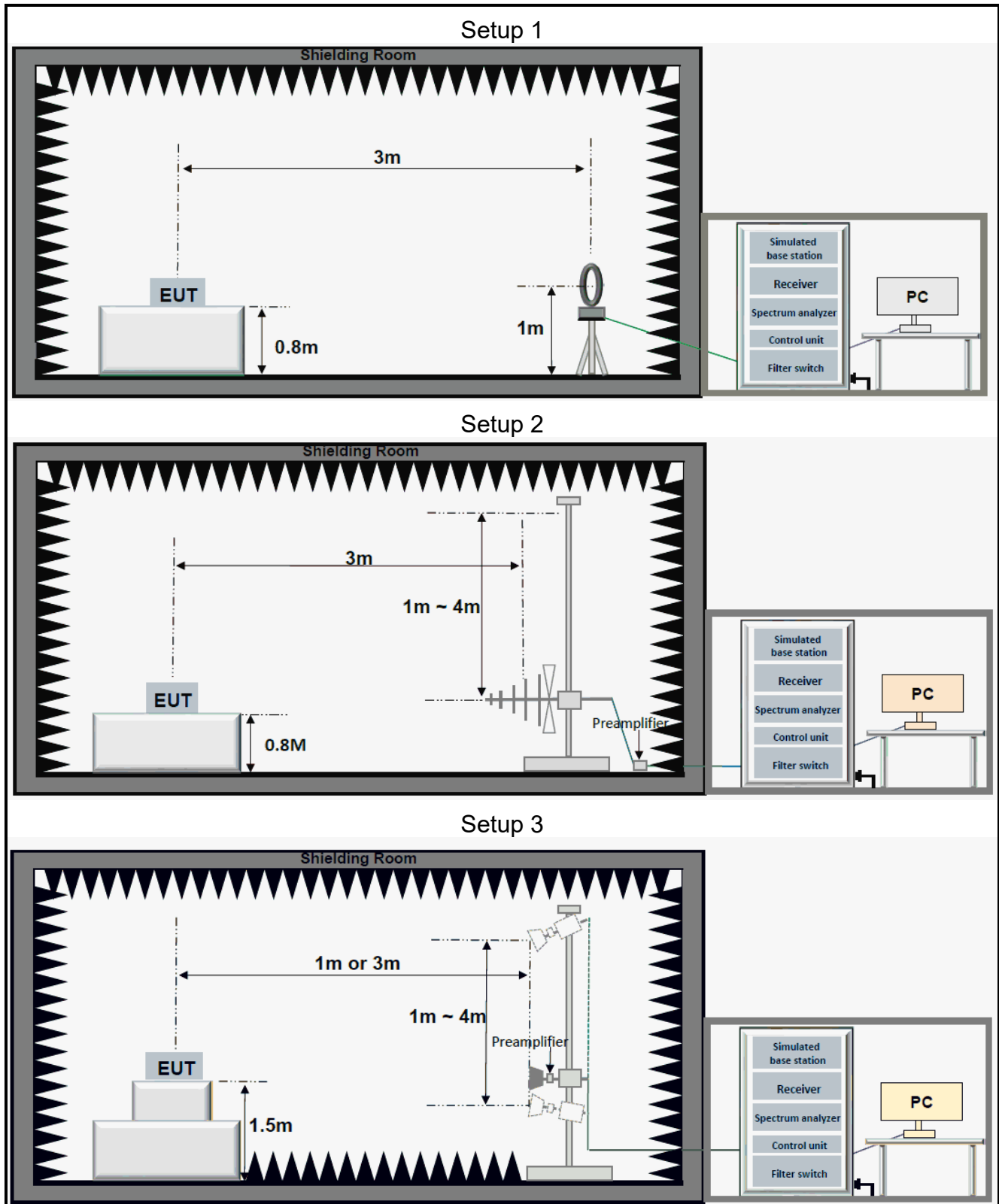
No modifications were made during testing.

2.7 Test Setup Diagram

2.7.1 Conducted Configuration



2.7.2 Radiated Configuration



Directional gain calculations:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices

$$\text{Array Gain} = 10 \log(N_{ANT}/N_{SS}=1) \text{ dB}$$

- For power measurements on IEEE 802.11 devices:

$$\text{Array Gain} = 0 \text{ dB (i.e., no array gain) for } N_{ANT} \leq 4;$$

$$\text{Array Gain} = 0 \text{ dB (i.e., no array gain) for channel widths } \geq 40 \text{ MHz for any } N_{ANT};$$

$$\text{Array Gain} = 5 \log(N_{ANT}/N_{SS}=1) \text{ dB or } 3 \text{ dB, whichever is less, for 20-MHz channel widths with } N_{ANT} \geq 5.$$

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

Unequal antenna gains, with equal transmit powers. For antenna gains given by $G_1, G_2, \dots, G_N$ dBi

- If transmit signals are correlated, then

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]}$$

- If all transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{ANT}] \text{ dBi}$$

The Power and PSD limit should be modified if the directional gain of EUT is over 6dBi.

The EUT supports CDD System.

Unequal antenna gain:

Transmit signals are completely correlated					
ANT Gain4 (dBi)	ANT Gain6 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)	Power Limit Reduction (dBm)	PSD Limit Reduction (dBm)
-2.21	-3.2	-2.21	0.32	0	0

3 Equipment and Measurement Uncertainty

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, whichever is less, and where applicable is traceable to recognized national standards.

3.1 Test Equipment List

RF Conducted					
Description	Manufacturer	Model	S.N.	Last Due	Cal Due
Signal Analyzer	Keysight	N9020A	US46470429	2025/03/14	2026/03/13
Signal Generator	R&S	SMR20	101027	2025/03/11	2026/03/10
Vector Signal Generator	R&S	SMM100A	549353	2025/05/29	2026/05/28
Power Sensor	Anritsu	MA24408A	12520	2025/05/29	2026/05/28
RF Control Unit	Tonscend	JS0806-2	23C80620671	2025/05/29	2026/05/28
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY63440541	2025/05/29	2026/05/28
Attenuator	Yin Saige	SMA-10dBm	N/A	N/A	N/A
Measurement Software	Tonscend	TS1120-3	10659	N/A	N/A

Radiated Emission					
Description	Manufacturer	Model	S.N.	Last Due	Cal Due
Biconic Logarithmic Periodic Antennas	Schwarzbeck	VULB9163	1643	2023/06/25	2026/06/24
Double-Ridged Horn Antennas	Schwarzbeck	BBHA 9120D	2809	2023/06/25	2026/06/24
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	1290	2023/06/25	2026/06/24
Loop Antenna	Schwarzbeck	FMZB 1519C	1519C-028	2023/06/29	2026/06/28
Signal Analyzer	Keysight	N9020A	MY49100252	2025/03/11	2026/03/10
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY63440541	2025/05/29	2026/05/28
Wideband Radio Communication Tester	R&S	CMW500	150645	2025/03/11	2026/03/10
Low Noise Amplifier	Tonscend	TAP9K3G40	AP23A8060273	2025/03/11	2027/03/10
Low Noise Amplifier	Tonscend	TAP01018050	AP22G806258	2025/03/11	2027/03/10
Low Noise Amplifier	Tonscend	TAP18040048	AP22G806247	2025/03/11	2027/03/10
Hygrometer	BINGYU	HTC-1	N/A	2025/07/25	2026/07/24
Band Reject Filter Group	Townshend	JS0806-F	23A806F0652	N/A	N/A
Test Software	Tonscend	TS+	Version: 5.0.0	N/A	N/A

Conducted Emission					
Description	Manufacturer	Model	S.N.	Last Due	Cal Due
EMI Tester Receiver	Rohde & Schwarz	ESR3	103108	2025/05/29	2026/05/28
LISN	Rohde & Schwarz	ENV 216	102836	2025/01/04	2026/01/03
Test software	Rohde & Schwarz	ELEKTRA V4.61	N/A	N/A	N/A

3.2 Measurement Uncertainty

Parameter	U _{lab}
Frequency Error	679.98Hz
Output Power	0.76dB
Conducted Spurious Emissions	2.22dB
Conducted Emissions(150kHz~30MHz)	2.43dB
Radiated Emissions(9kHz~30MHz)	2.40dB
Radiated Emissions(30MHz~1000MHz)	4.66dB
Radiated Emissions(1GHz~18GHz)	5.42dB
Radiated Emissions(18GHz~40GHz)	5.46dB

Uncertainty figures are valid to a confidence level of 95%

4 Test Results

4.1 Antenna Requirement

Standard Applicable:	47 CFR Part 15C Section 15.203 /247(b)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
The antenna gain and type as provided by the manufacturer are as follows: The antenna Type is Integrated. With Antenna gain is -2.21dBi(Ant4), -3.2dBi(Ant6). Antenna Anti-Replacement Construction: An embedded-in antenna design is used.	

4.2 AC Power Line Conducted Emissions

Limits

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

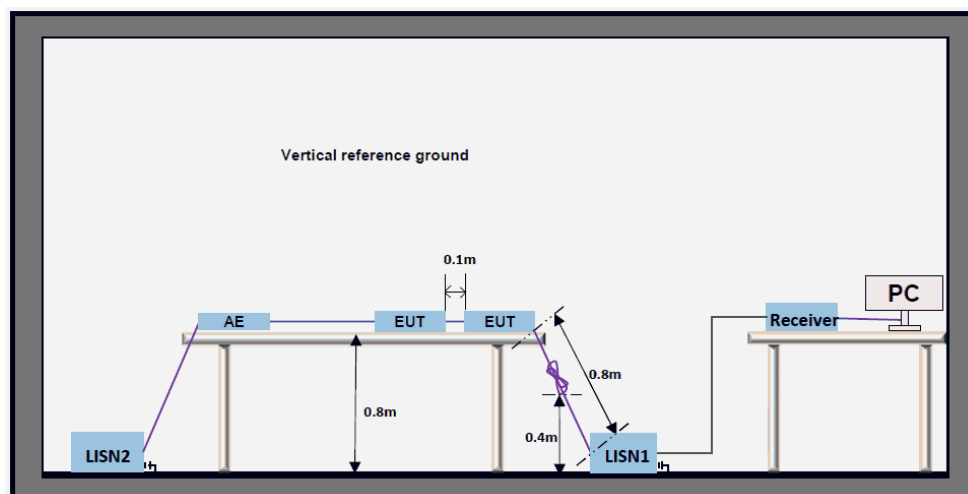
Test Procedure

ANSI C63.10:2020, Section 6.2.

Test Settings

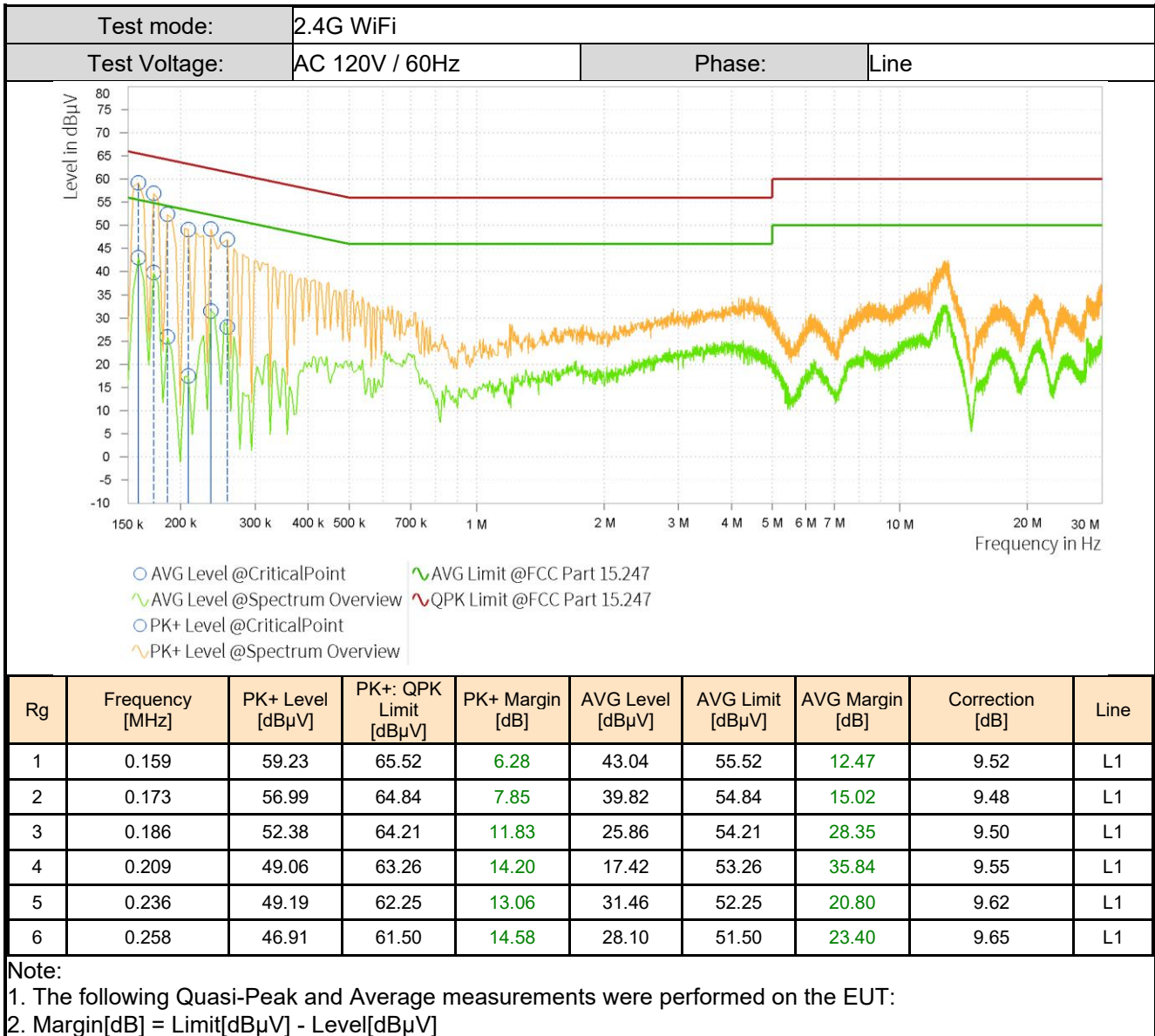
1. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
2. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
3. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
4. Set the test-receiver system to Peak detect function and specified bandwidth (if bandwidth =9kHz) with maximum hold mode. Then measurement is also conducted by average detector and Quasi-Peak detector function respectively.
5. Both sides of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

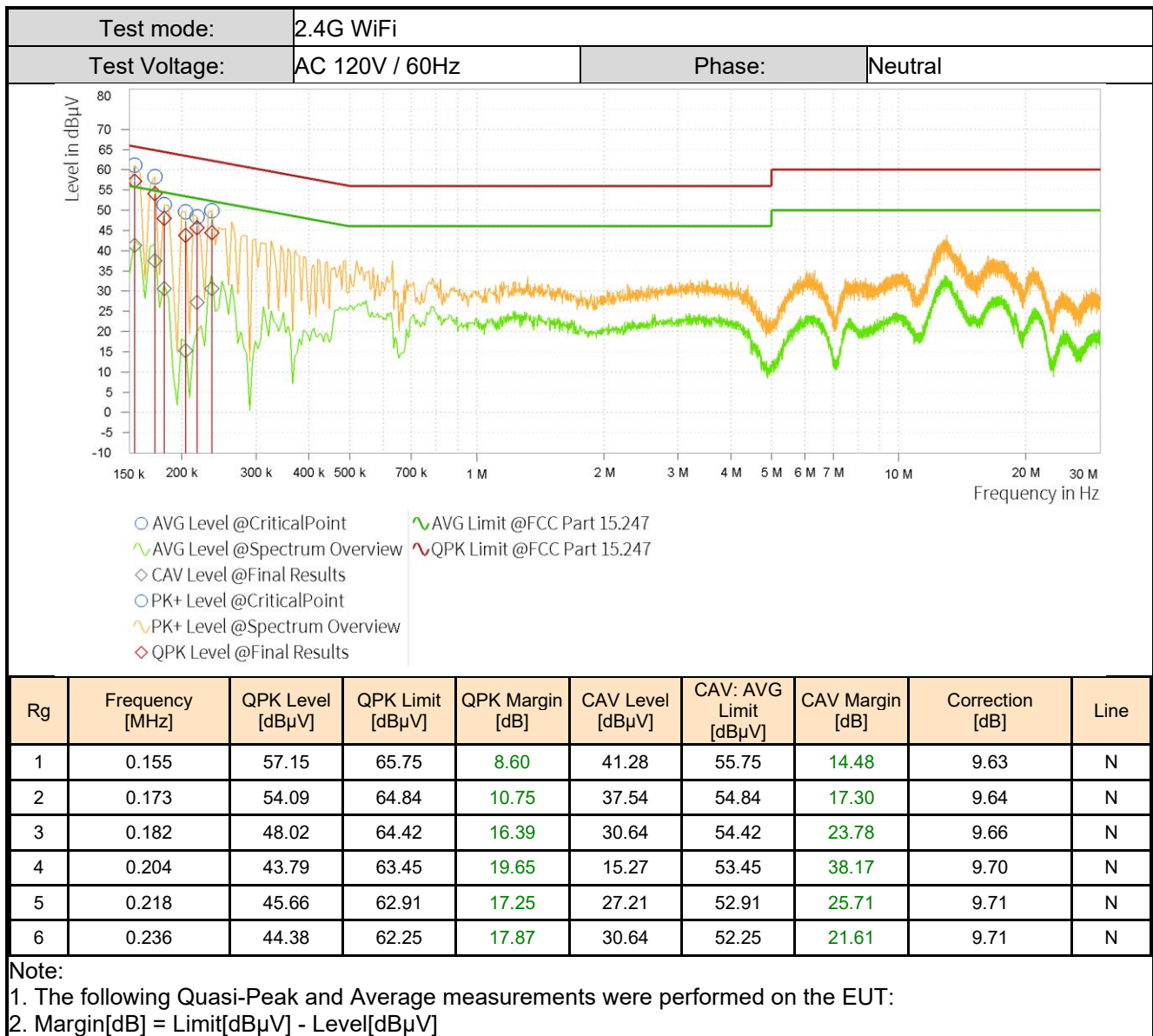
Test Setup



Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result:



4.3 Output Power

Limits

If with directional antenna gains less than 6 dBi, the limit is 30dBm.

Test Procedure

ANSI C63.10:2020 Section 11.9.1.2(PKPM1) or 11.9.2.3.2(AVGPM-G)

Test Settings

1. Set to the maximum power setting and enable the EUT transmit continuously.
2. The power output was measured on the EUT antenna port using RF Cable with an attenuator connected to a power sensor. Output power was read directly from the power sensor.
3. Measure and record the results in the test report.

Test Setup

Refer to section 2.7.1 Setup 1 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: **Appendix**.

4.4 Occupied Bandwidth

Limits

DTSBW: The minimum 6 dB bandwidth shall be at least 500 kHz.

99%BW: None, for reporting purposes only.

Test Procedure

ANSI C63.10:2020 Section 11.8.2 and 6.9.3

Test Settings

1. Set to the maximum power setting and enable the EUT transmit continuously.
2. The transmitter output is connected to a spectrum analyzer:
3. RBW = 100kHz(DTS)
4. RBW = 1% - 5%(99%BW)
5. VBW $\geq$ 3 times the RBW
6. Sweep = Auto
7. Detector = Peak
8. Trace = Max hold
9. The trace was allowed to stabilize
10. Measure and record the results in the test report.

Test Notes

DTS: The signal analyzers' automatic bandwidth measurement capability of the spectrum analyzer was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X= 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.

Test Setup

Refer to section 2.7.1 Setup 2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: **Appendix**.

4.5 Power Spectral Density

Limits

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Test Procedure

ANSI C63.10:2020 Section 11.10.2(PKPSD)

Test Settings

1. Set to the maximum power setting and enable the EUT transmit continuously
2. The transmitter output is connected to a spectrum analyzer
3. $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$
(If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.)
4. $\text{VBW} \geq 3$ times the RBW
5. Span = 1.5 times the DTS bandwidth
6. Sweep = Auto
7. Detector = Peak
8. Trace = Max hold
9. The trace was allowed to stabilize
10. Measure and record the results in the test report.

Test Setup

Refer to section 2.7.1 Setup 2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: **Appendix**.

4.6 Band Edge for Conducted Emissions

Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph 15.247(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Test Procedure

ANSI C63.10:2020 Section 11.11.3

Test Settings

1. Set to the maximum power setting and enable the EUT transmit continuously
2. The transmitter output is connected to a spectrum analyzer
3. RBW = 100kHz
4. VBW = 300kHz
5. Point $\geq 2 \times \text{span/RBW}$
6. Sweep = Auto
7. Detector = Peak
8. Trace = Max hold
9. The trace was allowed to stabilize
10. Measure and record the results in the test report

Test Setup

Refer to section 2.7.1 Setup 2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: **Appendix**.

4.7 Spurious RF Conducted Emissions

Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph 15.247(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Test Procedure

ANSI C63.10:2020 Section 11.11.3

Test Settings

1. Set to the maximum power setting and enable the EUT transmit continuously.
2. Activate frequency hopping function if necessary.
3. The transmitter output is connected to a spectrum analyzer
4. The spectrum from 30MHz - 26.5GHz
5. RBW = 100kHz
6. VBW = 300kHz
7. Sweep = Auto
8. Detector = Peak
9. Trace = Max hold
10. The trace was allowed to stabilize
11. Measure and record the results in the test report

Test Setup

Refer to section 2.7.1 Setup 2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: **Appendix**.

4.8 Radiated Spurious Emissions and Band Edge

Limits

Spurious emissions are permitted in an of the frequency bands:

MHz	MHz	MHz	MHz	GHz	GHz
0.090 - 0.110	12.29 - 12.293	149.9 - 150.05	1660 - 1710	4.5 - 5.15	14.47 - 14.5
0.495 - 0.505	12.51975 - 12.52025	156.52475 - 156.52525	1718.8 - 1722.2	5.35 - 5.46	15.35 - 16.2
2.1735 - 2.1905	12.5767 - 12.57725	156.7 - 156.9	2200 - 2300	7.25 - 7.75	17.7 - 21.4
4.125 - 128	13.36 - 13.41	162.0125 - 167.17	2310 - 2390	8.025 - 8.5	22.01 - 23.12
4.17725 - 4.17775	16.42 - 16.423	167.72 - 173.2	2483.5 - 2500	9.0 - 9.2	23.6 - 24.0
4.20725 - 4.20775	16.69475 - 16.69525	240 - 285	2655 - 2900	9.3 - 9.5	31.2 - 31.8
6.215 - 6.218	1680425 - 1680475	322 - 335.4	3260 - 3267	10.6 - 12.7	36.43 - 36.5
6.26775 - 6.26825	25.5 - 25.67	399.9 - 410	3332 - 3339	13.25 - 13.4	
6.31175 - 6.31225	37.5 - 38.25	608 - 614	3345.8 - 3358		
8.291 - 8.294	73 - 74.6	960 - 1240	3600 - 4400		
8.362 - 8.366	74.8 - 75.2	1300 - 1427			
8.37625 - 8.38675	108 - 121.94	1435 - 1626.5			
8.41425 - 8.41475	123 - 138	1645.5 - 1646.5			

Radiated disturbance of an intentional radiator:

Frequency	Field strength ($\mu\text{V/m}$)	Limit (dB $\mu\text{V/m}$)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
1.705MHz-30MHz	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	74.0	Peak	3
		54.0	Average	

Test Procedure

ANSI C63.10:2020 Section 6.4 & 6.5 & 6.6

Test Settings

- For radiated emissions measurements performed at frequencies less than or equal to 1GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80cm above the reference ground plane.
- For radiated emissions measurements performed at frequencies above 1GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 150cm above the ground plane.
- Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The measurement antenna shall be varied from 1m to 4m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level (i.e, field strength or received power), when orienting the measurement antenna in vertical polarization, the minimum height of the lowest element of the antenna shall clear the site reference ground plane by at least 25cm.
- For each suspected emission, the EUT was ranged its worst case and then tune the antenna tower(from 1~4m) and turntable(from 0~360°) find the maximum reading. Preamplifier and a high pass filter are used for the test in order get better signal level comply with the guidelines.
- Set to the maximum power setting and enable the EUT transmit continuously.
- The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
- spectrum analyzer setting:
Measurements 30MHz ~ 1000MHz: RBW = 120 kHz; VBW $\geq$ 300 kHz; Detector = Peak

Measurements Above 1000MHz: RBW = 1 MHz; VBW $\geq$ 3 MHz; Detector = Peak

Average Measurements Above 1000MHz:

RBW = 1 MHz, VBW $\geq$ 1/T, with peak detector for average measurements.

8. The field strength is calculated by adding the Antenna Factor, Cable Factor. The basic equation with a sample calculation is as follows:

Level = Reading(dB μ V) + Factor(dB):

Factor = Cable Factor(dB) + AF(dB/m) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dB μ V/m) – Level(dB μ V/m)

9. Repeat above procedures until all frequencies measured was complete.
10. Measure and record the results in the test report.

Test Notes

1. Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1-meter test distance with the application of a distance correction factor.
2. Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 1GHz. the disturbance between 9kHz to 30MHz and 18GHz to 40GHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be recorded, so only the harmonics had been displayed.
3. These frequencies which near "-" should be ignored because they are Fundamental frequency.

Test Setup

Refer to section 2.7.2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: **Appendix.**

5 Test Setup Photos

The detailed test data see: **Appendix-F BTWIFI Setup Photos**

Appendix

DTS Bandwidth Test Result

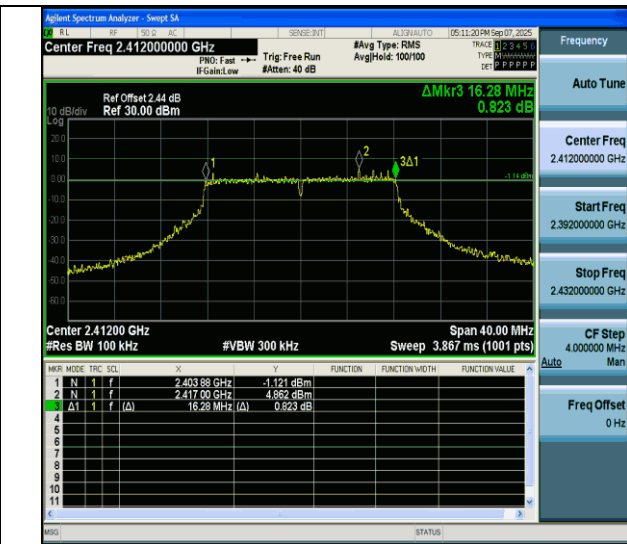
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b-CDD	Ant4	2412	7.520	2408.000	2415.520	0.5	PASS
11b-CDD	Ant6	2412	8.040	2408.000	2416.040	0.5	PASS
11b-CDD	Ant4	2437	7.560	2433.440	2441.000	0.5	PASS
11b-CDD	Ant6	2437	7.120	2433.440	2440.560	0.5	PASS
11b-CDD	Ant4	2462	7.040	2458.480	2465.520	0.5	PASS
11b-CDD	Ant6	2462	8.080	2457.960	2466.040	0.5	PASS
11g-CDD	Ant4	2412	16.040	2404.120	2420.160	0.5	PASS
11g-CDD	Ant6	2412	16.280	2403.880	2420.160	0.5	PASS
11g-CDD	Ant4	2437	16.320	2428.840	2445.160	0.5	PASS
11g-CDD	Ant6	2437	16.320	2428.840	2445.160	0.5	PASS
11g-CDD	Ant4	2462	16.080	2453.840	2469.920	0.5	PASS
11g-CDD	Ant6	2462	16.320	2453.840	2470.160	0.5	PASS
11n20MIMO	Ant4	2412	17.280	2403.280	2420.560	0.5	PASS
11n20MIMO	Ant6	2412	16.960	2403.840	2420.800	0.5	PASS
11n20MIMO	Ant4	2437	17.600	2428.200	2445.800	0.5	PASS
11n20MIMO	Ant6	2437	17.640	2428.200	2445.840	0.5	PASS
11n20MIMO	Ant4	2462	17.600	2453.200	2470.800	0.5	PASS
11n20MIMO	Ant6	2462	17.280	2453.240	2470.520	0.5	PASS
11n40MIMO	Ant4	2422	36.320	2403.840	2440.160	0.5	PASS
11n40MIMO	Ant6	2422	34.400	2405.760	2440.160	0.5	PASS
11n40MIMO	Ant4	2437	36.320	2418.840	2455.160	0.5	PASS
11n40MIMO	Ant6	2437	36.080	2419.080	2455.160	0.5	PASS
11n40MIMO	Ant4	2452	36.320	2433.840	2470.160	0.5	PASS
11n40MIMO	Ant6	2452	36.320	2433.840	2470.160	0.5	PASS
11ax20MIMO	Ant4	2412	18.320	2402.800	2421.120	0.5	PASS
11ax20MIMO	Ant6	2412	18.960	2402.560	2421.520	0.5	PASS
11ax20MIMO	Ant4	2437	18.480	2427.640	2446.120	0.5	PASS
11ax20MIMO	Ant6	2437	18.960	2427.520	2446.480	0.5	PASS
11ax20MIMO	Ant4	2462	18.000	2452.920	2470.920	0.5	PASS
11ax20MIMO	Ant6	2462	18.480	2452.600	2471.080	0.5	PASS
11ax40MIMO	Ant4	2422	36.320	2404.160	2440.480	0.5	PASS
11ax40MIMO	Ant6	2422	35.120	2405.440	2440.560	0.5	PASS
11ax40MIMO	Ant4	2437	37.600	2417.960	2455.560	0.5	PASS
11ax40MIMO	Ant6	2437	37.440	2418.440	2455.880	0.5	PASS
11ax40MIMO	Ant4	2452	37.600	2433.120	2470.720	0.5	PASS
11ax40MIMO	Ant6	2452	37.680	2433.200	2470.880	0.5	PASS
11be20MIMO	Ant4	2412	18.640	2402.840	2421.480	0.5	PASS
11be20MIMO	Ant6	2412	18.400	2402.840	2421.240	0.5	PASS
11be20MIMO	Ant4	2437	18.760	2427.600	2446.360	0.5	PASS
11be20MIMO	Ant6	2437	18.880	2427.560	2446.440	0.5	PASS
11be20MIMO	Ant4	2462	18.680	2452.560	2471.240	0.5	PASS
11be20MIMO	Ant6	2462	18.040	2452.720	2470.760	0.5	PASS
11be40MIMO	Ant4	2422	37.920	2403.120	2441.040	0.5	PASS
11be40MIMO	Ant6	2422	37.040	2403.440	2440.480	0.5	PASS
11be40MIMO	Ant4	2437	37.840	2418.040	2455.880	0.5	PASS
11be40MIMO	Ant6	2437	37.760	2418.120	2455.880	0.5	PASS
11be40MIMO	Ant4	2452	38.000	2432.960	2470.960	0.5	PASS
11be40MIMO	Ant6	2452	37.760	2433.120	2470.880	0.5	PASS

Test Graphs





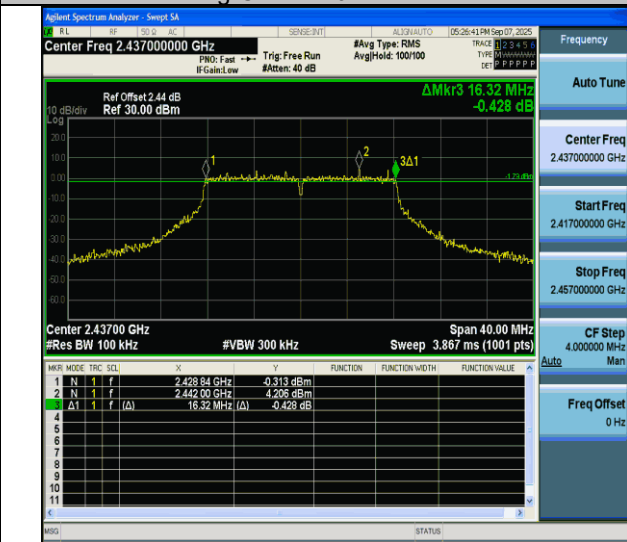
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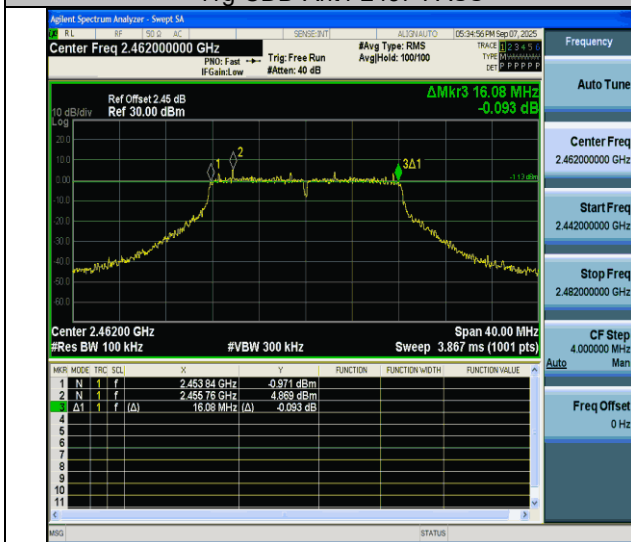
11g-CDD-Ant6-2412-PASS



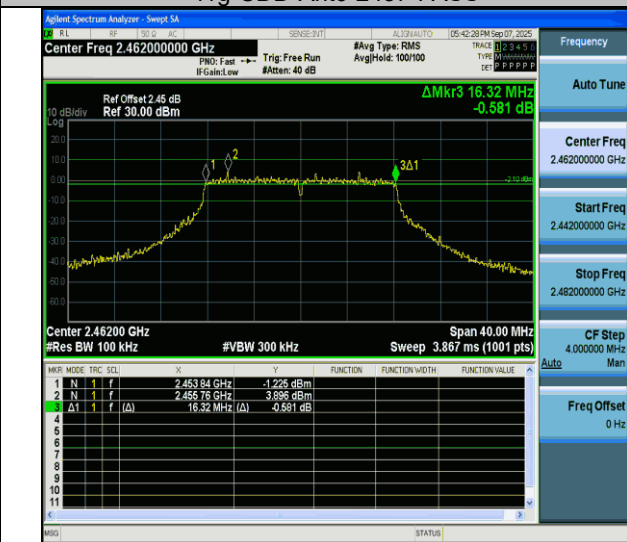
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11g-CDD-Ant6-2437-PASS



11g-CDD-Ant4-2462-PASS



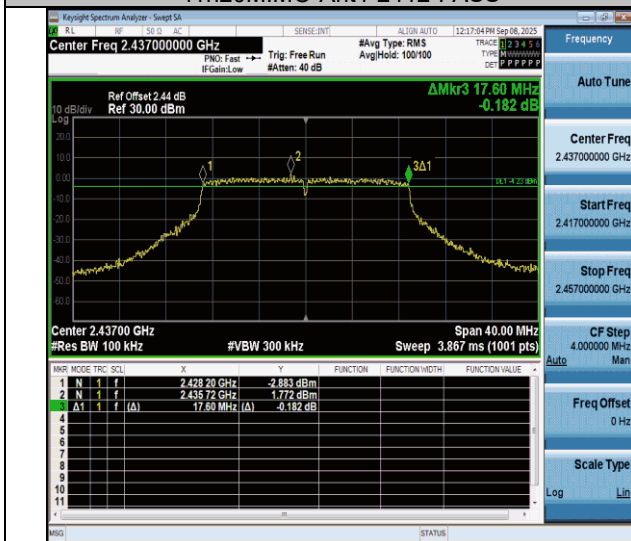
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11n20MIMO-Ant4-2412-PASS



11n20MIMO-Ant6-2412-PASS



11n20MIMO-Ant4-2437-PASS



11n20MIMO-Ant6-2437-PASS



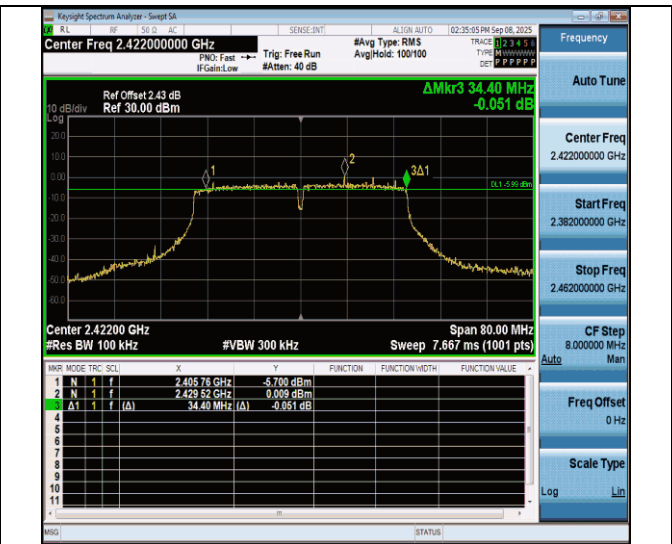
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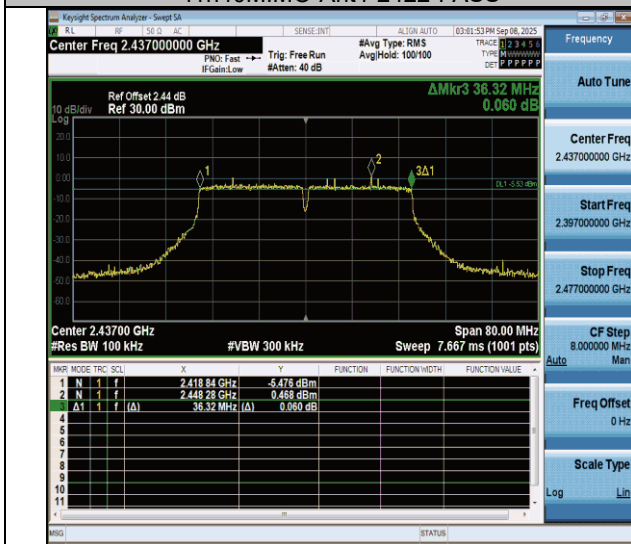
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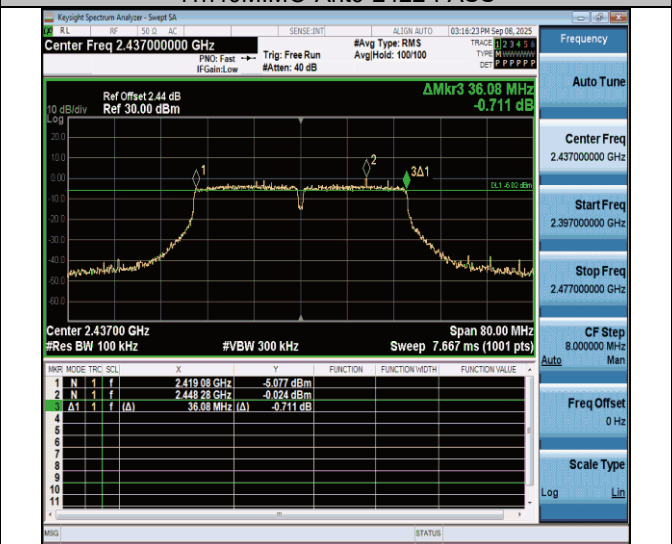
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11n40MIMO-Ant6-2422-PASS



11n40MIMO-Ant4-2437-PASS



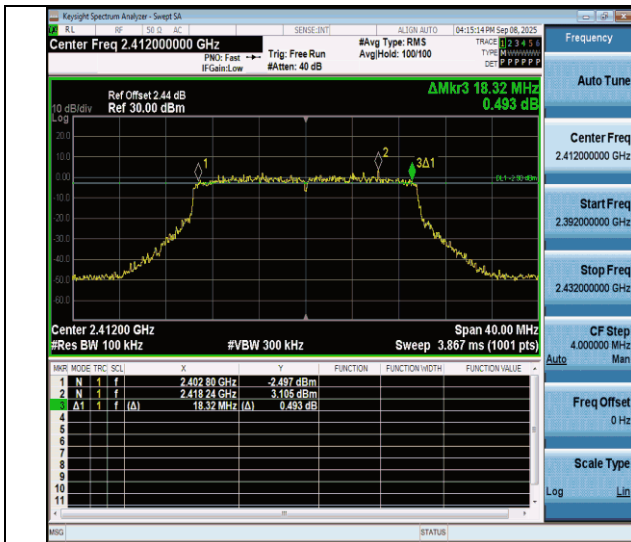
11n40MIMO-Ant6-2437-PASS



11n40MIMO-Ant4-2452-PASS



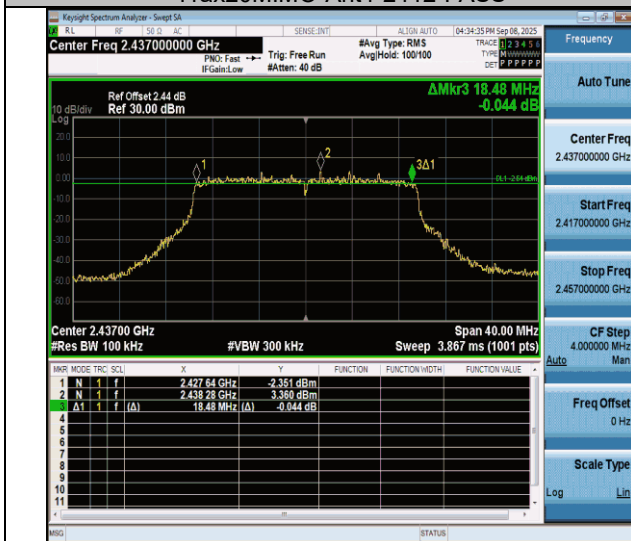
11n40MIMO-Ant6-2452-PASS



11ax20MIMO-Ant4-2412-PASS



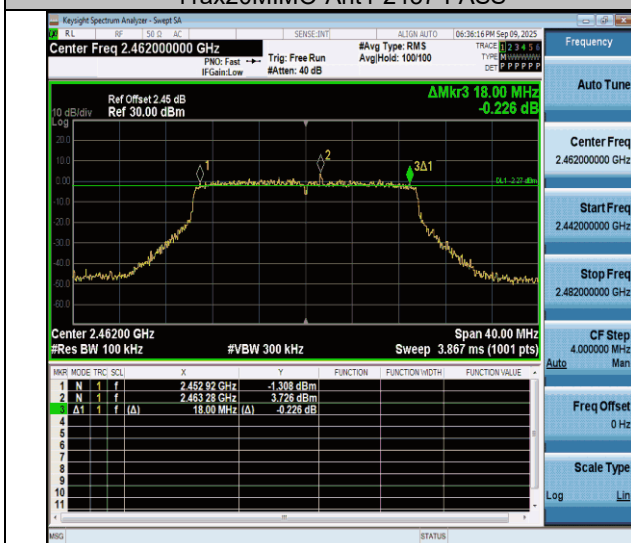
11ax20MIMO-Ant6-2412-PASS



11ax20MIMO-Ant4-2437-PASS



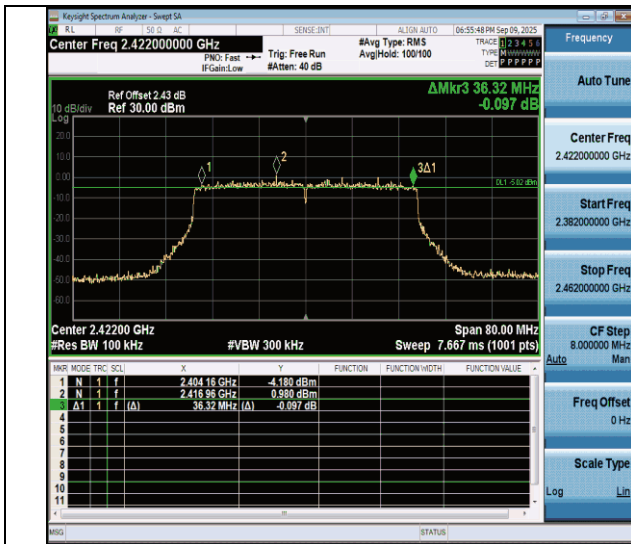
11ax20MIMO-Ant6-2437-PASS



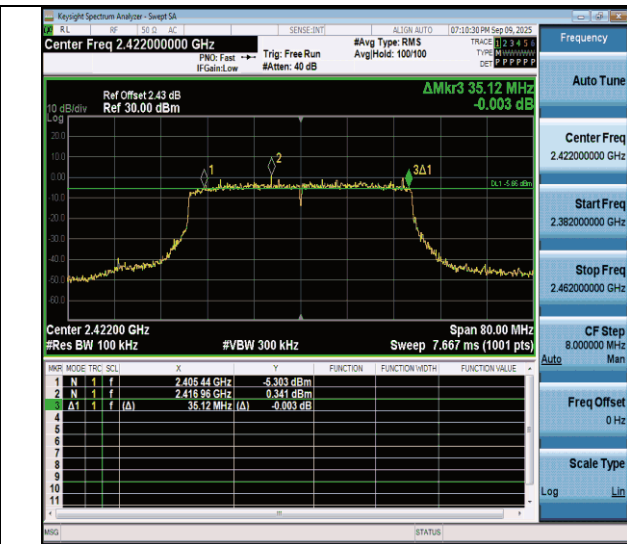
11ax20MIMO-Ant4-2462-PASS



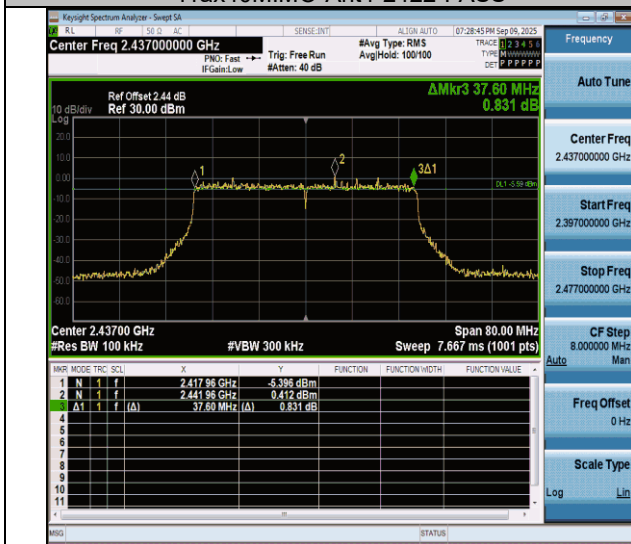
11ax20MIMO-Ant6-2462-PASS



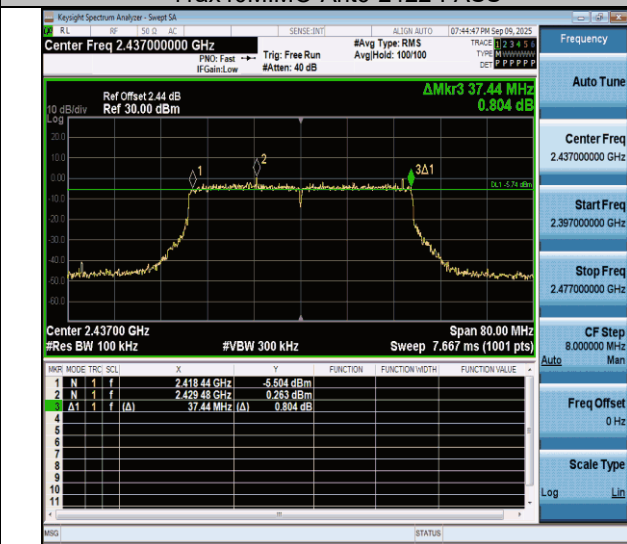
11ax40MIMO-Ant4-2422-PASS



11ax40MIMO-Ant6-2422-PASS



11ax40MIMO-Ant4-2437-PASS



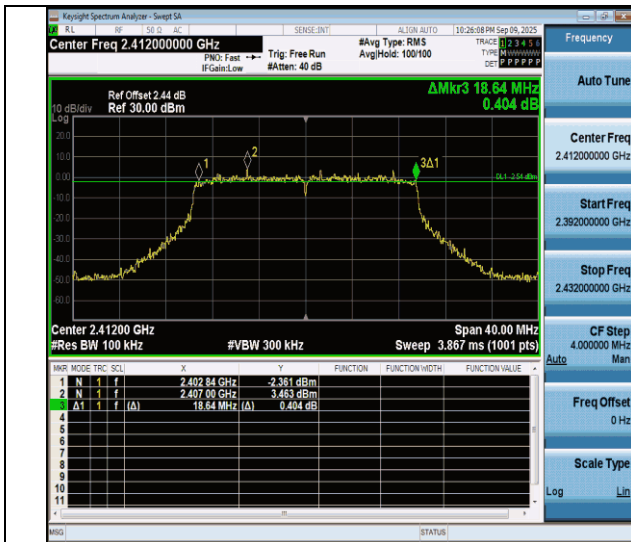
11ax40MIMO-Ant6-2437-PASS



11ax40MIMO-Ant4-2452-PASS



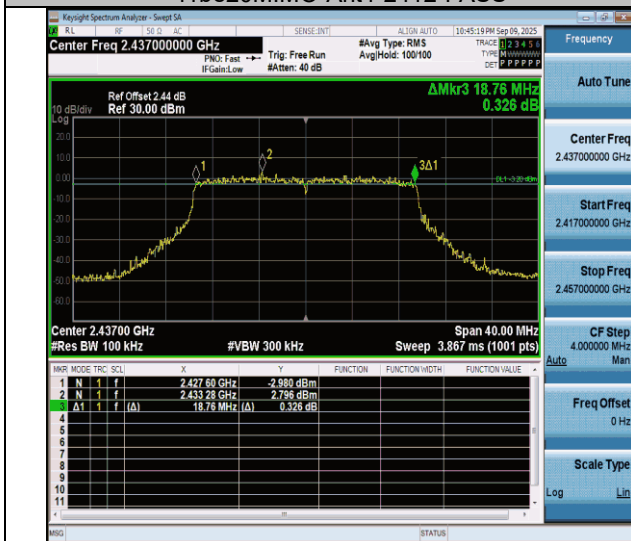
11ax40MIMO-Ant6-2452-PASS



11be20MIMO-Ant4-2412-PASS



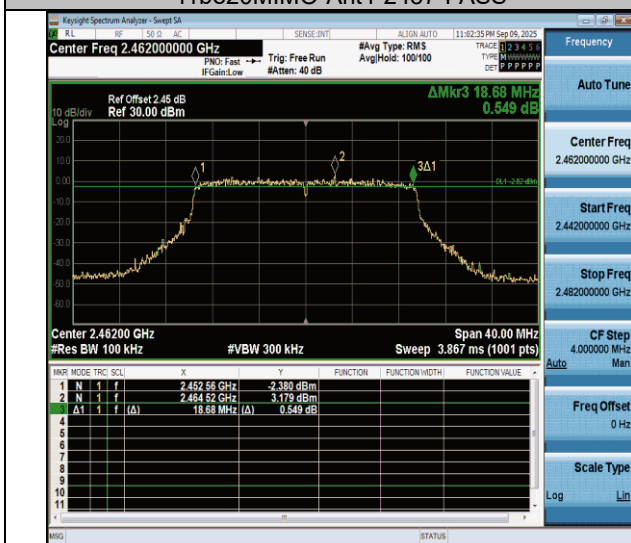
11be20MIMO-Ant6-2412-PASS



11be20MIMO-Ant4-2437-PASS



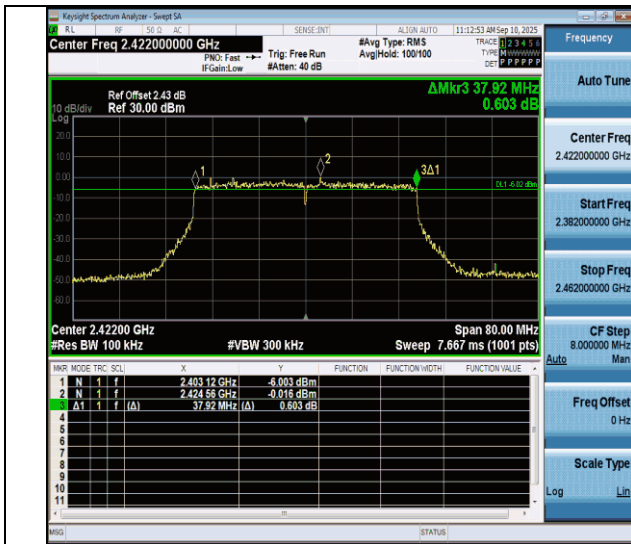
11be20MIMO-Ant6-2437-PASS



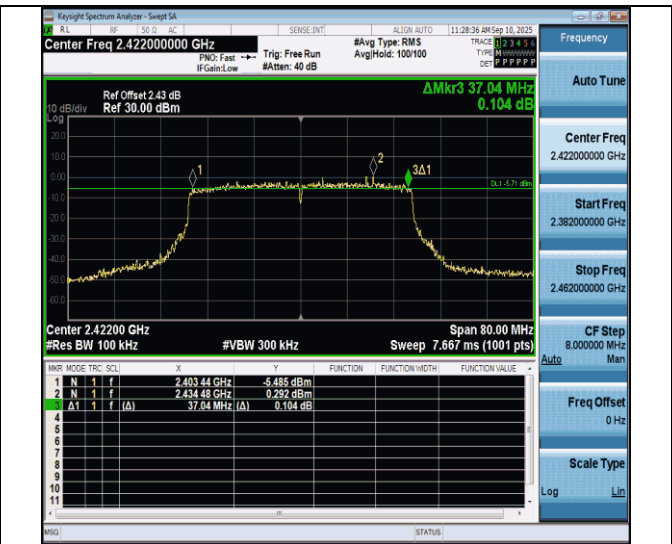
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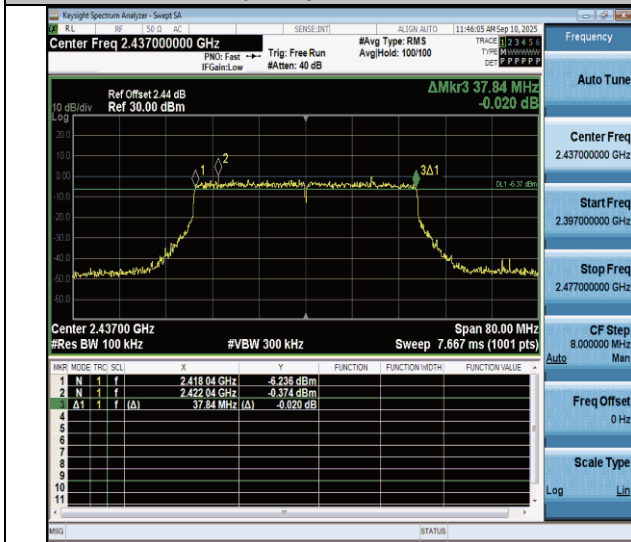
11be20MIMO-Ant6-2462-PASS



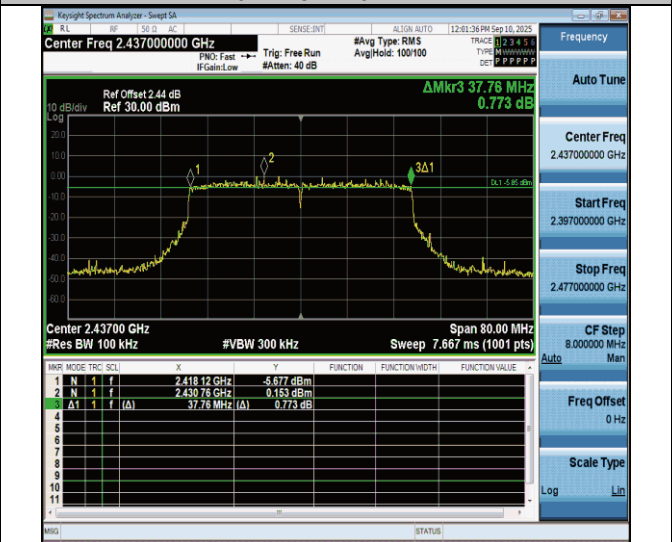
11be40MIMO-Ant4-2422-PASS



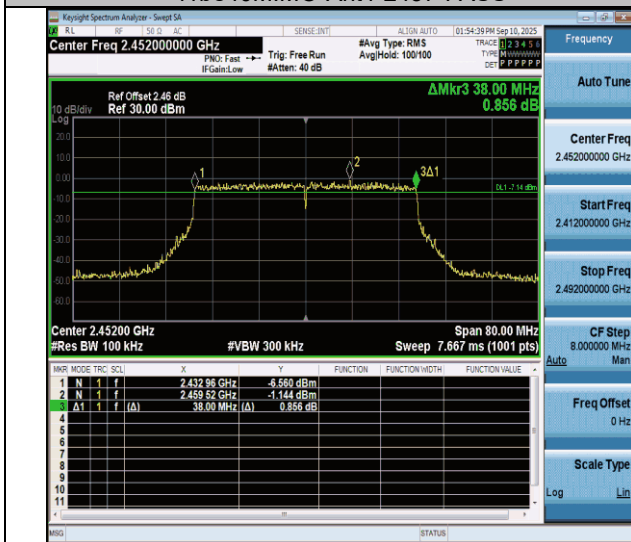
11be40MIMO-Ant6-2422-PASS



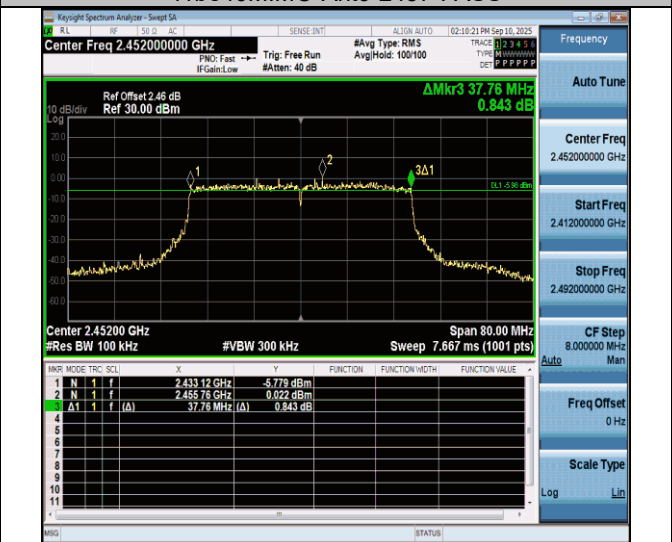
11be40MIMO-Ant4-2437-PASS



11be40MIMO-Ant6-2437-PASS



11be40MIMO-Ant4-2452-PASS

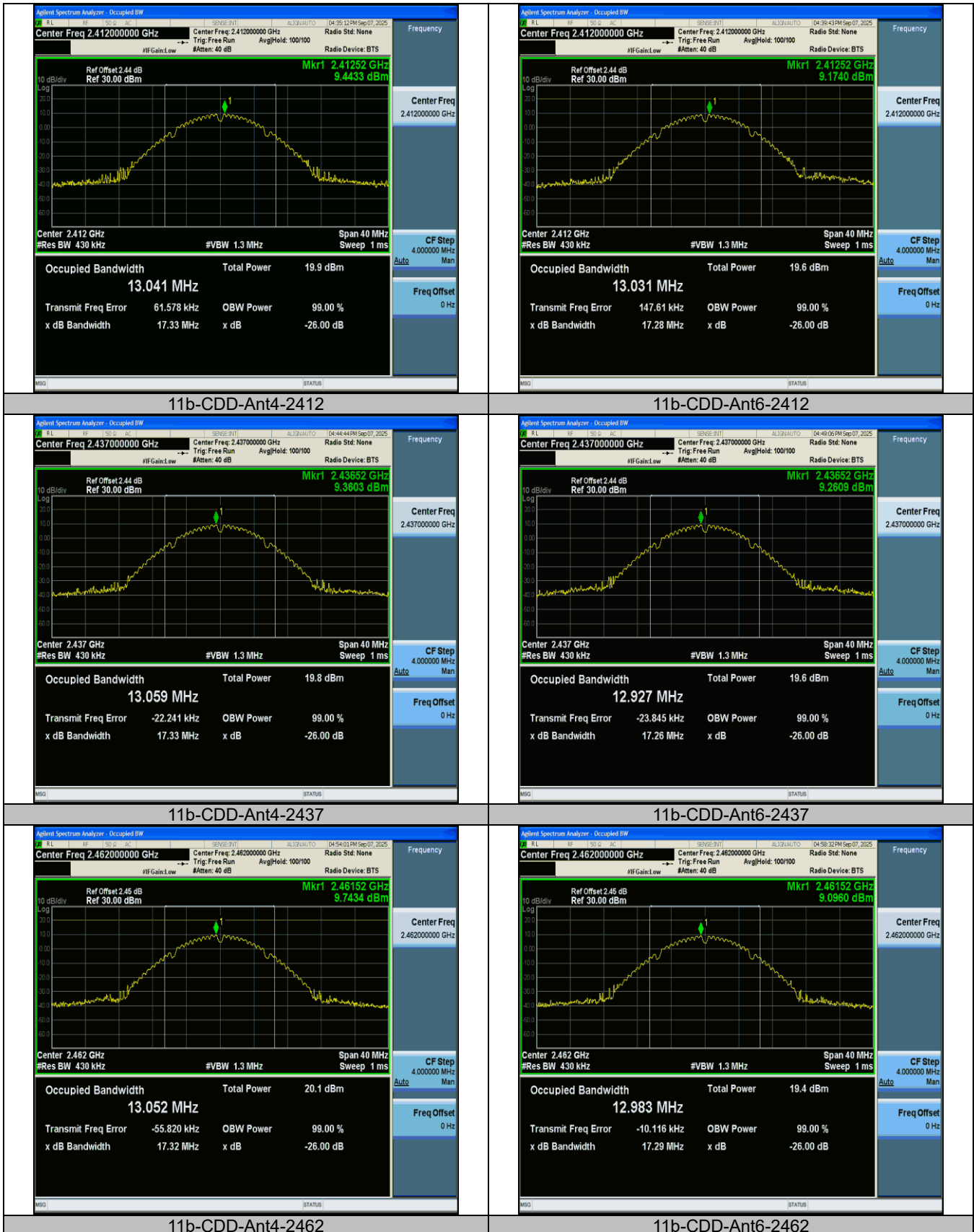


11be40MIMO-Ant6-2452-PASS

Occupied Channel Bandwidth Test Result

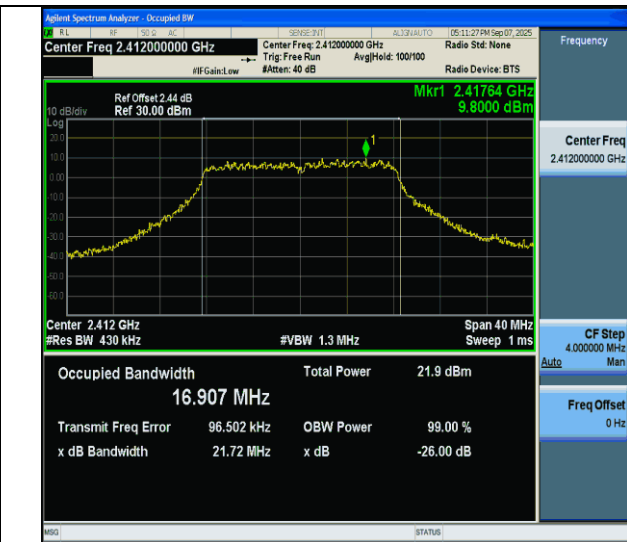
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b-CDD	Ant4	2412	13.041	2405.5411	2418.5821	---	---
11b-CDD	Ant6	2412	13.031	2405.6321	2418.6631	---	---
11b-CDD	Ant4	2437	13.059	2430.4483	2443.5073	---	---
11b-CDD	Ant6	2437	12.927	2430.5127	2443.4397	---	---
11b-CDD	Ant4	2462	13.052	2455.4182	2468.4702	---	---
11b-CDD	Ant6	2462	12.983	2455.4984	2468.4814	---	---
11g-CDD	Ant4	2412	17.003	2403.4871	2420.4901	---	---
11g-CDD	Ant6	2412	16.907	2403.6430	2420.5500	---	---
11g-CDD	Ant4	2437	17.064	2428.3693	2445.4333	---	---
11g-CDD	Ant6	2437	16.915	2428.5459	2445.4609	---	---
11g-CDD	Ant4	2462	17.051	2453.3618	2470.4128	---	---
11g-CDD	Ant6	2462	16.841	2453.5698	2470.4108	---	---
11n20MIMO	Ant4	2412	18.177	2402.9323	2421.1093	---	---
11n20MIMO	Ant6	2412	18.125	2403.0410	2421.1660	---	---
11n20MIMO	Ant4	2437	18.199	2427.8693	2446.0683	---	---
11n20MIMO	Ant6	2437	18.179	2427.9170	2446.0960	---	---
11n20MIMO	Ant4	2462	18.096	2452.9289	2471.0249	---	---
11n20MIMO	Ant6	2462	18.052	2452.9504	2471.0024	---	---
11n40MIMO	Ant4	2422	36.608	2403.7563	2440.3643	---	---
11n40MIMO	Ant6	2422	36.462	2403.8448	2440.3068	---	---
11n40MIMO	Ant4	2437	36.890	2418.5760	2455.4660	---	---
11n40MIMO	Ant6	2437	36.670	2418.6809	2455.3509	---	---
11n40MIMO	Ant4	2452	36.828	2433.5317	2470.3597	---	---
11n40MIMO	Ant6	2452	36.693	2433.6899	2470.3829	---	---
11ax20MIMO	Ant4	2412	19.042	2402.5261	2421.5681	---	---
11ax20MIMO	Ant6	2412	19.085	2402.5153	2421.6003	---	---
11ax20MIMO	Ant4	2437	19.033	2427.4861	2446.5191	---	---
11ax20MIMO	Ant6	2437	19.020	2427.4982	2446.5182	---	---
11ax20MIMO	Ant4	2462	19.079	2452.4502	2471.5292	---	---
11ax20MIMO	Ant6	2462	19.101	2452.4570	2471.5580	---	---
11ax40MIMO	Ant4	2422	37.972	2403.0258	2440.9978	---	---
11ax40MIMO	Ant6	2422	37.859	2403.1995	2441.0585	---	---
11ax40MIMO	Ant4	2437	38.149	2417.9745	2456.1235	---	---
11ax40MIMO	Ant6	2437	38.023	2418.0347	2456.0577	---	---
11ax40MIMO	Ant4	2452	38.003	2432.9868	2470.9898	---	---
11ax40MIMO	Ant6	2452	37.809	2433.1293	2470.9383	---	---
11be20MIMO	Ant4	2412	19.126	2402.4375	2421.5635	---	---
11be20MIMO	Ant6	2412	19.016	2402.5564	2421.5724	---	---
11be20MIMO	Ant4	2437	19.062	2427.4785	2446.5405	---	---
11be20MIMO	Ant6	2437	19.145	2427.4439	2446.5889	---	---
11be20MIMO	Ant4	2462	19.064	2452.4624	2471.5264	---	---
11be20MIMO	Ant6	2462	19.086	2452.4548	2471.5408	---	---
11be40MIMO	Ant4	2422	37.940	2403.1034	2441.0434	---	---
11be40MIMO	Ant6	2422	37.841	2403.1384	2440.9794	---	---
11be40MIMO	Ant4	2437	38.101	2417.9305	2456.0315	---	---
11be40MIMO	Ant6	2437	37.978	2418.0645	2456.0425	---	---
11be40MIMO	Ant4	2452	37.992	2432.9952	2470.9872	---	---
11be40MIMO	Ant6	2452	37.976	2433.0130	2470.9890	---	---

Test Graphs





11g-CDD-Ant4-2412



11g-CDD-Ant6-2412



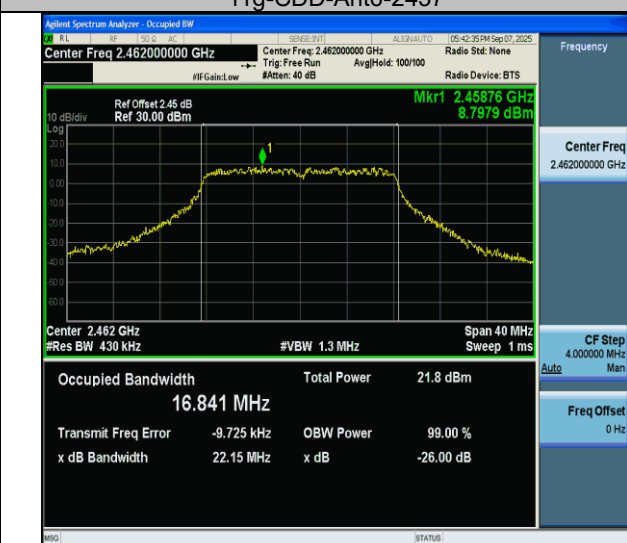
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11g-CDD-Ant6-2437



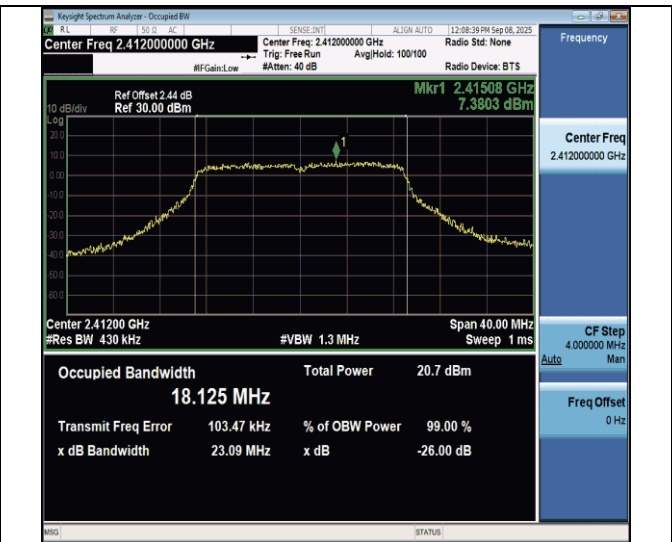
11g-CDD-Ant4-2462



11g-CDD-Ant6-2462



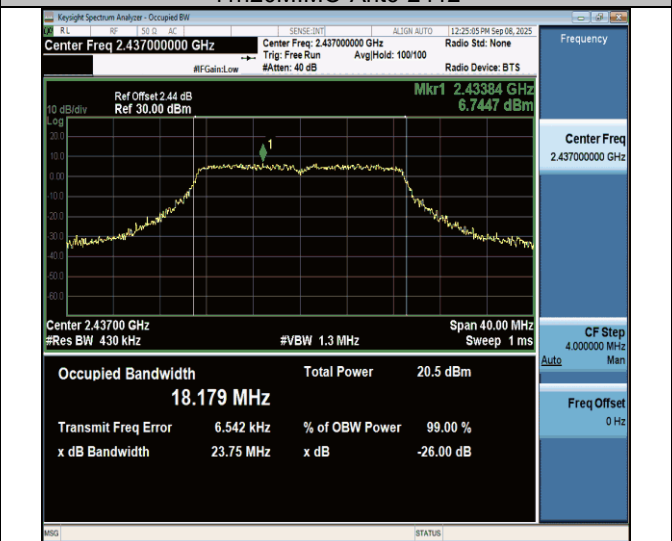
11n20MIMO-Ant4-2412



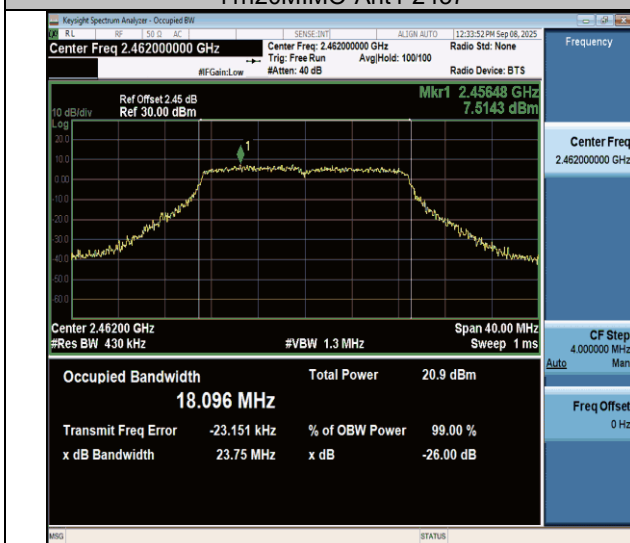
11n20MIMO-Ant6-2412



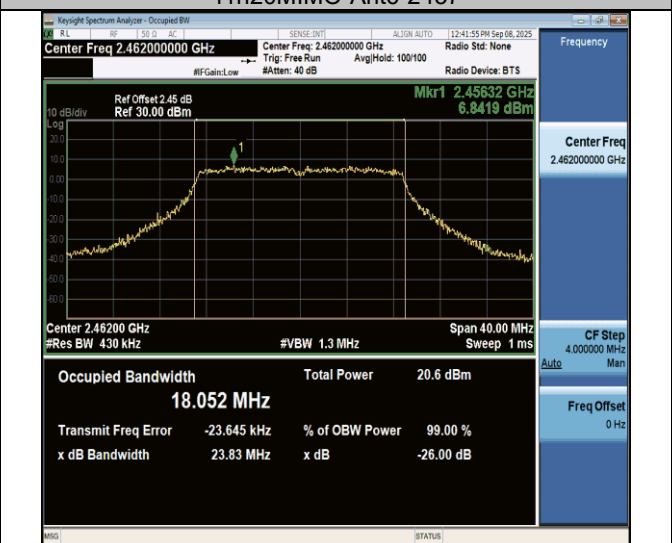
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11n20MIMO-Ant6-2437



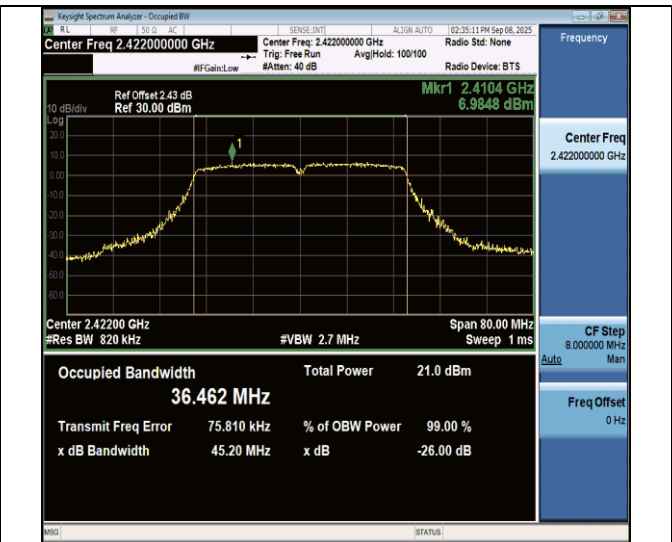
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11n20MIMO-Ant6-2462



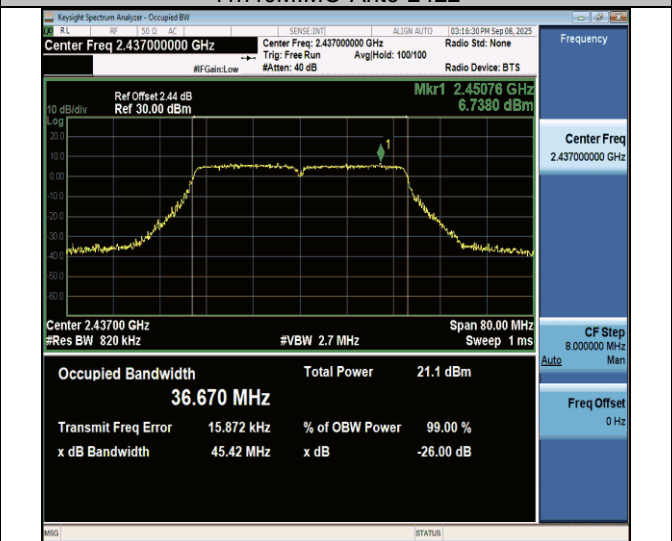
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11n40MIMO-Ant6-2422



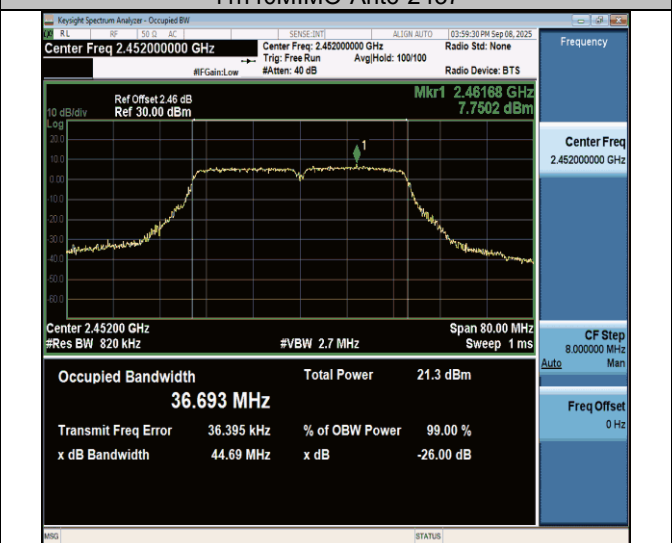
11n40MIMO-Ant4-2437



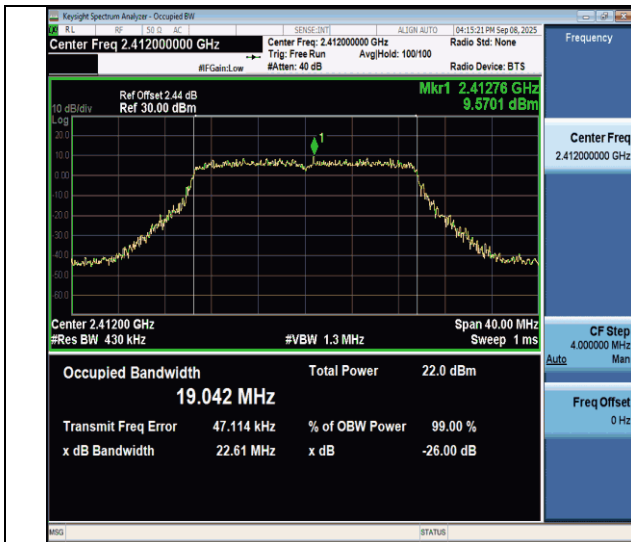
11n40MIMO-Ant6-2437



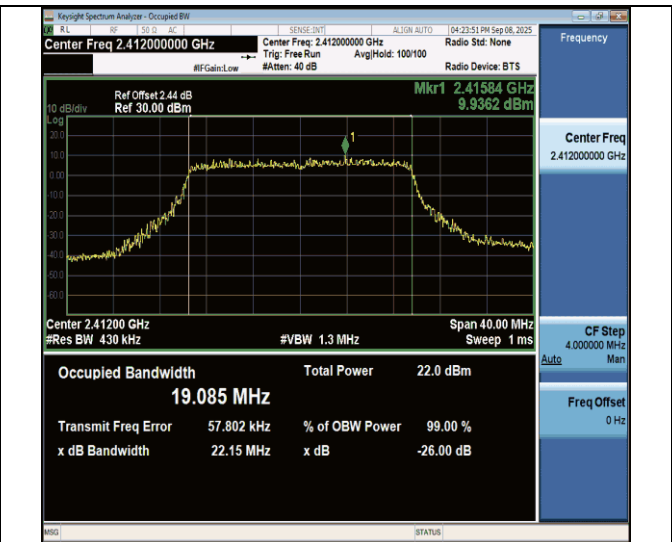
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11n40MIMO-Ant6-2452



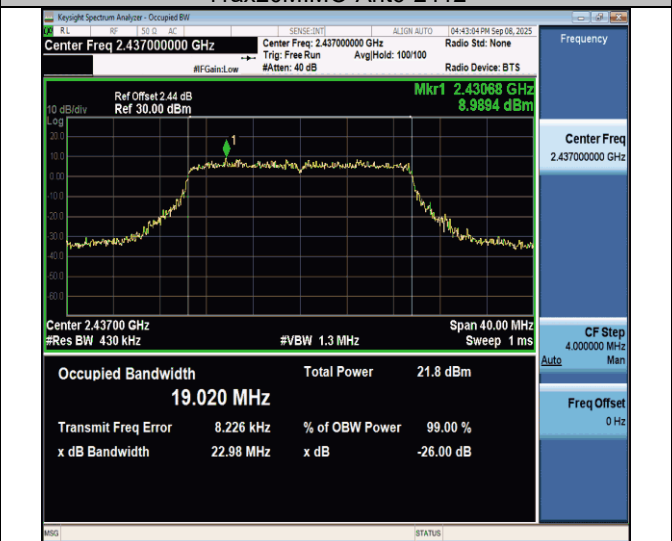
11ax20MIMO-Ant4-2412



11ax20MIMO-Ant6-2412



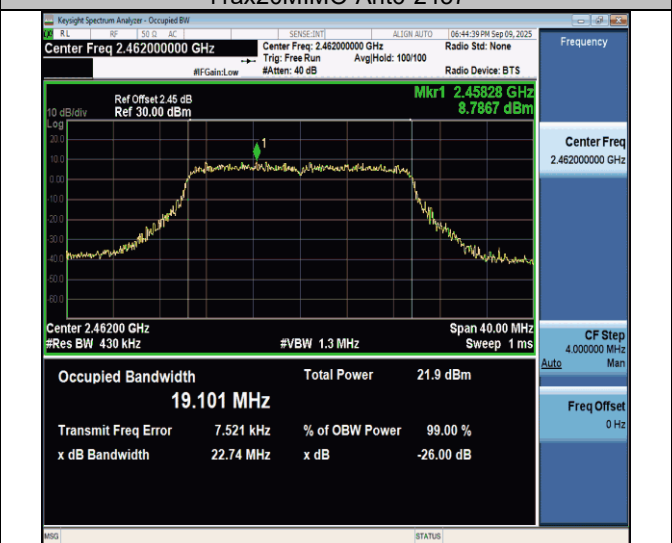
11ax20MIMO-Ant4-2437



11ax20MIMO-Ant6-2437



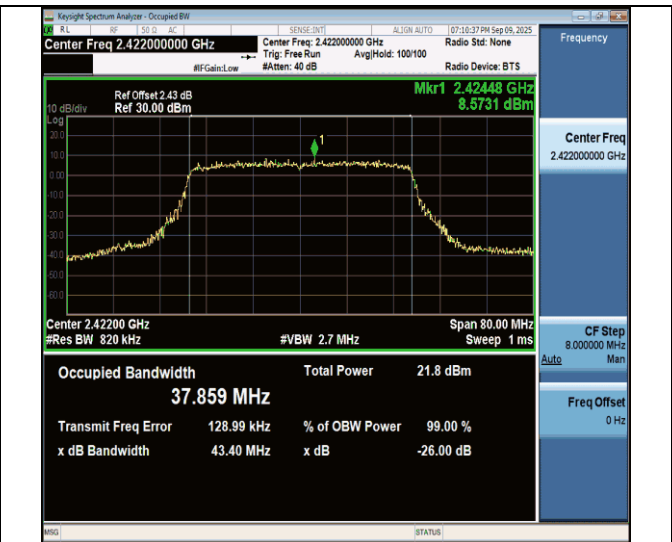
11ax20MIMO-Ant4-2462



11ax20MIMO-Ant6-2462



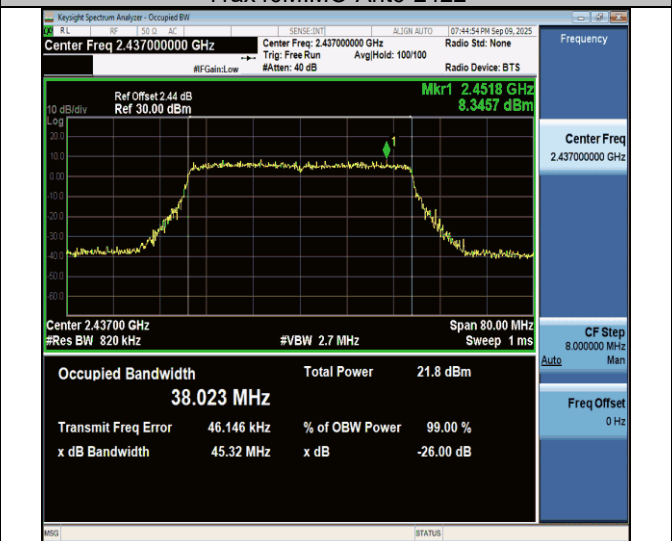
11ax40MIMO-Ant4-2422



11ax40MIMO-Ant6-2422



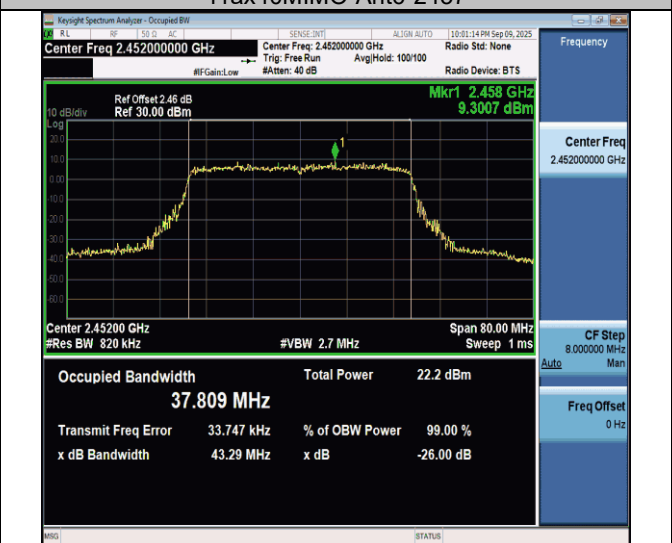
11ax40MIMO-Ant4-2437



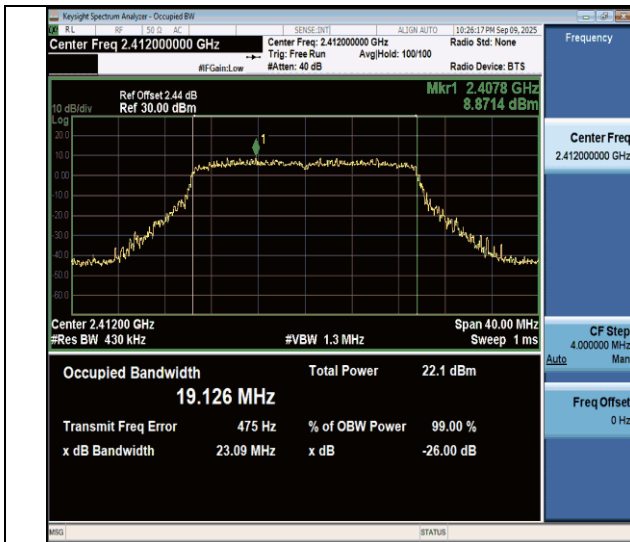
11ax40MIMO-Ant6-2437



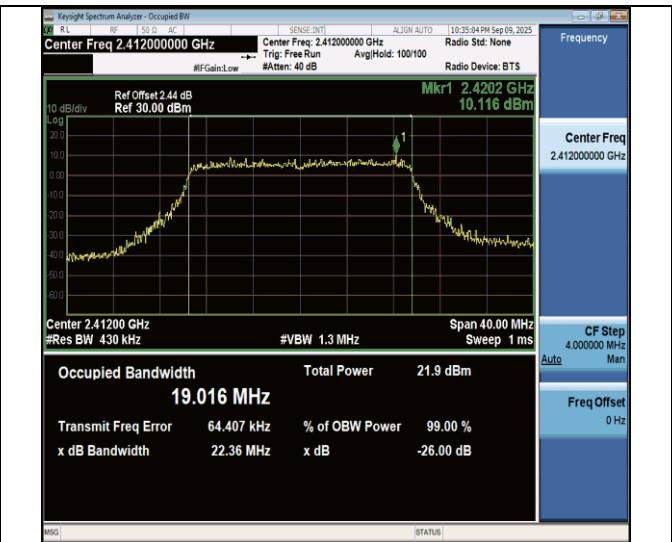
11ax40MIMO-Ant4-2452



11ax40MIMO-Ant6-2452



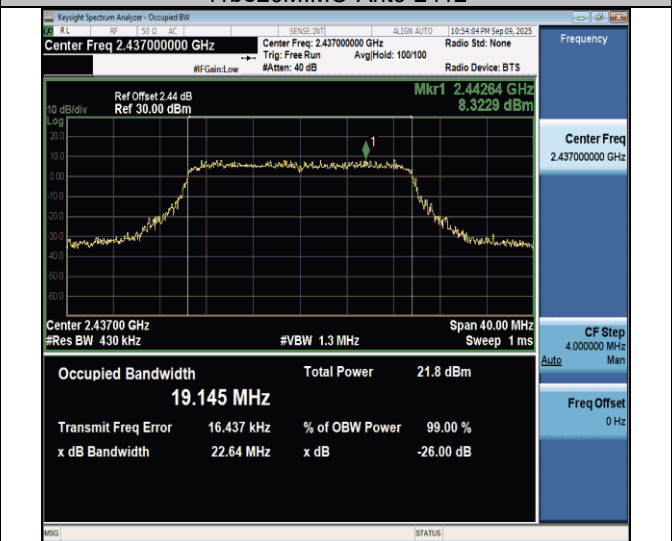
11be20MIMO-Ant4-2412



11be20MIMO-Ant6-2412



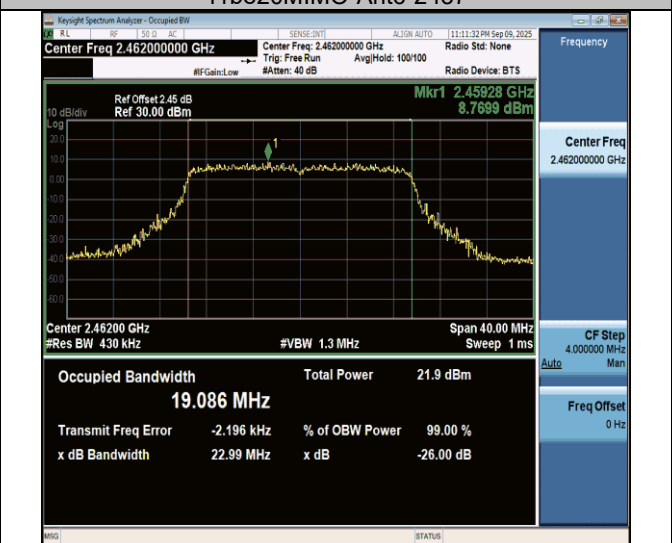
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11be20MIMO-Ant6-2437



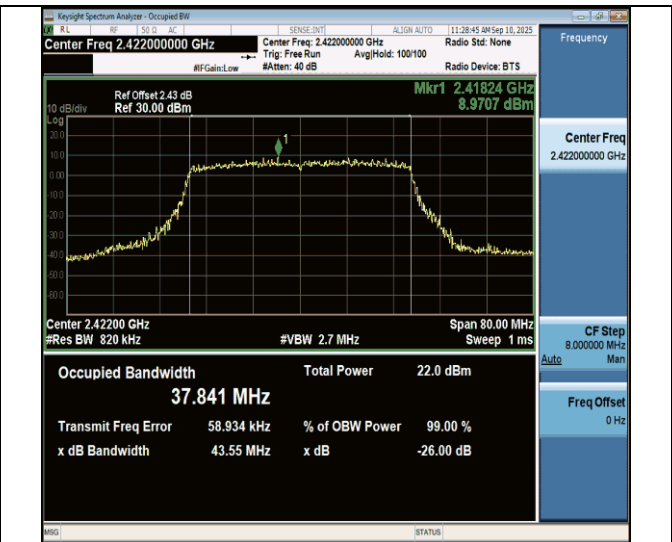
11be20MIMO-Ant4-2462



11be20MIMO-Ant6-2462



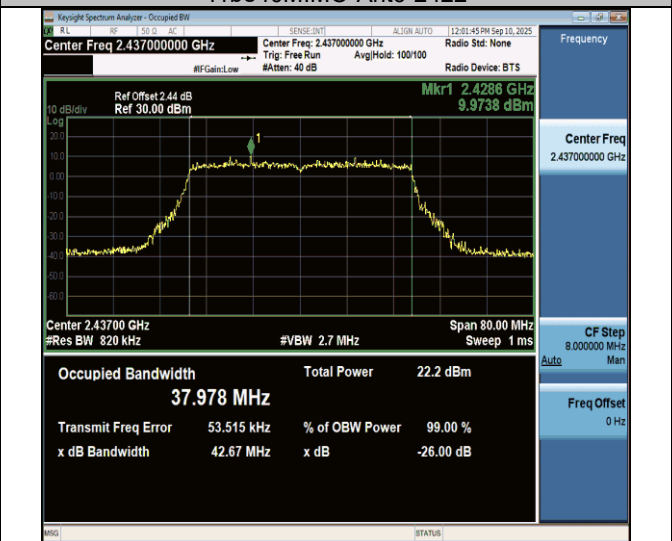
11be40MIMO-Ant4-2422



11be40MIMO-Ant6-2422



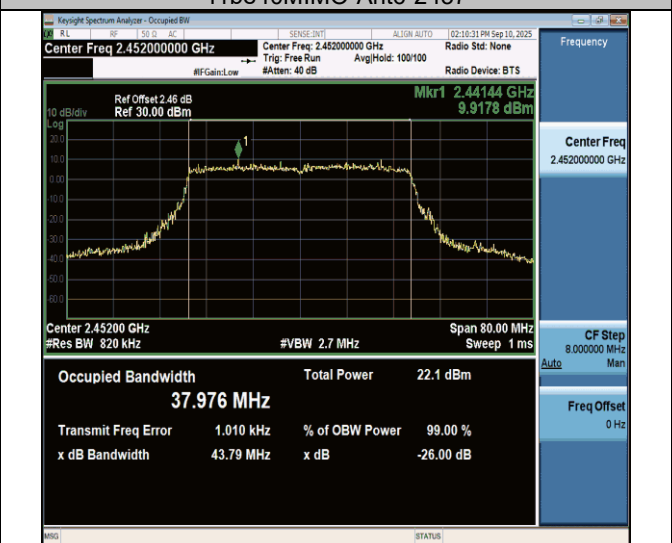
11be40MIMO-Ant4-2437



11be40MIMO-Ant6-2437



11be40MIMO-Ant4-2452



11be40MIMO-Ant6-2452

**Maximum conducted output power
Test Result**

TestMode	Frequency [MHz]	Mode	Conducted Average Power Ant4[dBm]	Conducted Average Power Ant6[dBm]	Conducted Average Power Total (dBm)	Conducted Limit[dBm]	Verdict
11b	2412	CDD	16.432	16.216	19.34	≤30	PASS
	2437		16.012	14.849	18.48	≤30	PASS
	2462		16.17	16.223	19.21	≤30	PASS
11g	2412	CDD	13.311	12.989	16.16	≤30	PASS
	2437		12.921	12.957	15.95	≤30	PASS
	2462		13.341	12.956	16.16	≤30	PASS
11n20	2412	MIMO	12.761	12.436	15.61	≤30	PASS
	2437		12.482	12.366	15.43	≤30	PASS
	2462		12.85	12.353	15.62	≤30	PASS
11n40	2422	MIMO	13.389	13.131	16.27	≤30	PASS
	2437		13.129	13.215	16.18	≤30	PASS
	2452		13.191	13.264	16.24	≤30	PASS
11ax20	2412	MIMO	15.085	15.001	18.05	≤30	PASS
	2437		14.831	15.013	17.93	≤30	PASS
	2462		15.102	15.009	18.07	≤30	PASS
11ax40	2422	MIMO	14.822	14.697	17.77	≤30	PASS
	2437		14.602	14.653	17.64	≤30	PASS
	2452		14.621	14.739	17.69	≤30	PASS
11be20	2412	MIMO	12.268	11.938	15.12	≤30	PASS
	2437		12.054	11.937	15.01	≤30	PASS
	2462		12.363	11.87	15.13	≤30	PASS
11be40	2422	MIMO	13.876	13.561	16.73	≤30	PASS
	2437		13.632	13.691	16.67	≤30	PASS
	2452		13.706	13.715	16.72	≤30	PASS

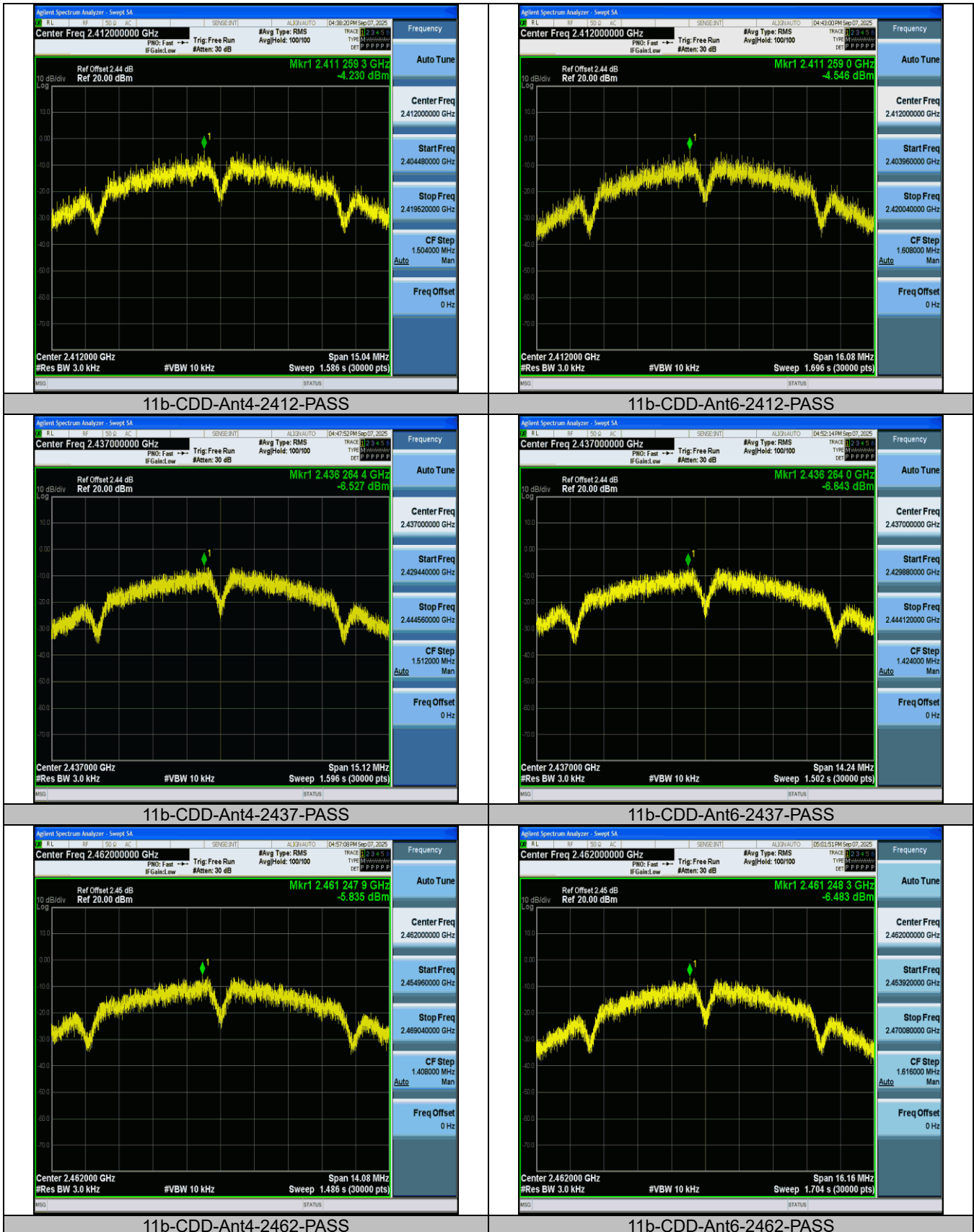
TestMode	Frequency [MHz]	Mode	Conducted Peak Power Ant4[dBm]	Conducted Peak Power Ant6[dBm]	Conducted Peak Power Total (dBm)	Conducted Limit[dBm]	Verdict
11b	2412	CDD	18.889	19.222	22.07	≤30	PASS
	2437		18.924	18.825	21.89	≤30	PASS
	2462		19.212	18.923	22.08	≤30	PASS
11g	2412	CDD	19.52	19.026	22.29	≤30	PASS
	2437		19.104	19.118	22.12	≤30	PASS
	2462		19.403	19.075	22.25	≤30	PASS
11n20	2412	MIMO	18.834	18.787	21.82	≤30	PASS
	2437		18.701	18.662	21.69	≤30	PASS
	2462		19.047	18.474	21.78	≤30	PASS
11n40	2422	MIMO	21.857	20.569	24.27	≤30	PASS
	2437		20.488	20.848	23.68	≤30	PASS
	2452		20.659	20.686	23.68	≤30	PASS
11ax20	2412	MIMO	21.715	21.778	24.76	≤30	PASS
	2437		21.449	21.915	24.70	≤30	PASS
	2462		21.959	21.699	24.84	≤30	PASS
11ax40	2422	MIMO	22.743	21.881	25.34	≤30	PASS
	2437		22.154	21.997	25.09	≤30	PASS
	2452		22.177	22.311	25.25	≤30	PASS
11be20	2412	MIMO	19.371	18.656	22.04	≤30	PASS
	2437		19.024	18.784	21.92	≤30	PASS
	2462		19.292	18.434	21.89	≤30	PASS
11be40	2422	MIMO	21.795	21.212	24.52	≤30	PASS
	2437		21.561	21.603	24.59	≤30	PASS
	2452		21.555	21.676	24.63	≤30	PASS

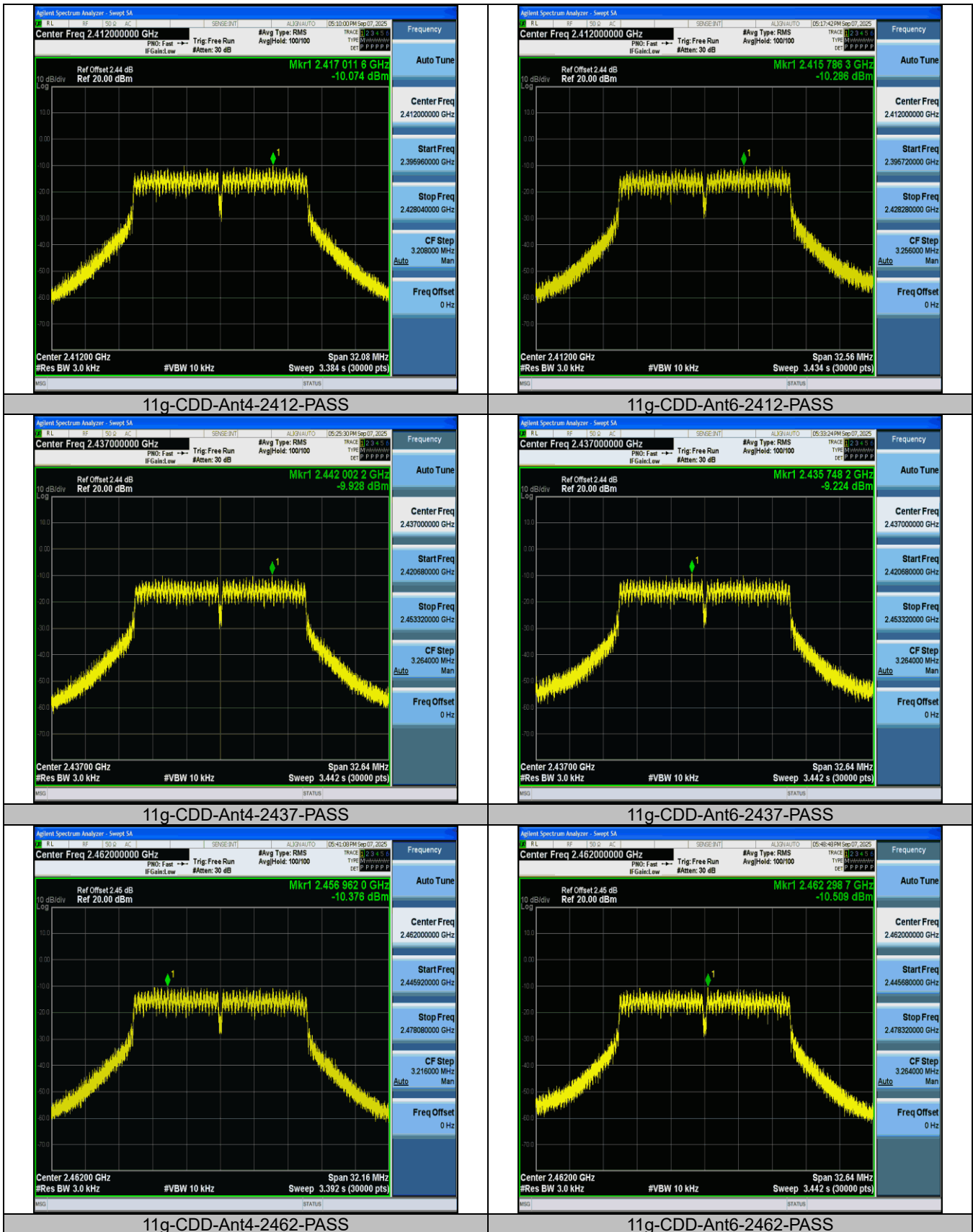
**Maximum power spectral density
Test Result**

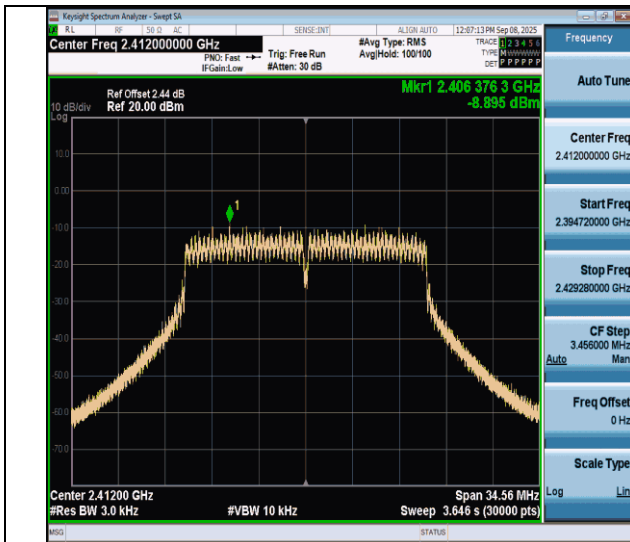
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11b-CDD	Ant4	2412	-4.23	≤8.00	PASS
11b-CDD	Ant6	2412	-4.55	≤8.00	PASS
11b-CDD	total	2412	-1.38	≤8.00	PASS
11b-CDD	Ant4	2437	-6.53	≤8.00	PASS
11b-CDD	Ant6	2437	-6.64	≤8.00	PASS
11b-CDD	total	2437	-3.57	≤8.00	PASS
11b-CDD	Ant4	2462	-5.84	≤8.00	PASS
11b-CDD	Ant6	2462	-6.48	≤8.00	PASS
11b-CDD	total	2462	-3.14	≤8.00	PASS
11g-CDD	Ant4	2412	-10.07	≤8.00	PASS
11g-CDD	Ant6	2412	-10.29	≤8.00	PASS
11g-CDD	total	2412	-7.17	≤8.00	PASS
11g-CDD	Ant4	2437	-9.93	≤8.00	PASS
11g-CDD	Ant6	2437	-9.22	≤8.00	PASS
11g-CDD	total	2437	-6.55	≤8.00	PASS
11g-CDD	Ant4	2462	-10.38	≤8.00	PASS
11g-CDD	Ant6	2462	-10.51	≤8.00	PASS
11g-CDD	total	2462	-7.43	≤8.00	PASS
11n20MIMO	Ant4	2412	-8.90	≤8.00	PASS
11n20MIMO	Ant6	2412	-8.97	≤8.00	PASS
11n20MIMO	total	2412	-5.92	≤8.00	PASS
11n20MIMO	Ant4	2437	-9.24	≤8.00	PASS
11n20MIMO	Ant6	2437	-9.17	≤8.00	PASS
11n20MIMO	total	2437	-6.19	≤8.00	PASS
11n20MIMO	Ant4	2462	-8.56	≤8.00	PASS
11n20MIMO	Ant6	2462	-9.55	≤8.00	PASS
11n20MIMO	total	2462	-6.02	≤8.00	PASS
11n40MIMO	Ant4	2422	-13.23	≤8.00	PASS
11n40MIMO	Ant6	2422	-13.51	≤8.00	PASS
11n40MIMO	total	2422	-10.36	≤8.00	PASS
11n40MIMO	Ant4	2437	-13.31	≤8.00	PASS
11n40MIMO	Ant6	2437	-13.33	≤8.00	PASS
11n40MIMO	total	2437	-10.31	≤8.00	PASS
11n40MIMO	Ant4	2452	-13.21	≤8.00	PASS
11n40MIMO	Ant6	2452	-13.49	≤8.00	PASS
11n40MIMO	total	2452	-10.34	≤8.00	PASS
11ax20MIMO	Ant4	2412	-10.61	≤8.00	PASS
11ax20MIMO	Ant6	2412	-11.12	≤8.00	PASS
11ax20MIMO	total	2412	-7.85	≤8.00	PASS
11ax20MIMO	Ant4	2437	-10.84	≤8.00	PASS
11ax20MIMO	Ant6	2437	-11.20	≤8.00	PASS
11ax20MIMO	total	2437	-8.01	≤8.00	PASS
11ax20MIMO	Ant4	2462	-11.02	≤8.00	PASS
11ax20MIMO	Ant6	2462	-11.11	≤8.00	PASS
11ax20MIMO	total	2462	-8.05	≤8.00	PASS
11ax40MIMO	Ant4	2422	-13.55	≤8.00	PASS
11ax40MIMO	Ant6	2422	-13.27	≤8.00	PASS
11ax40MIMO	total	2422	-10.40	≤8.00	PASS
11ax40MIMO	Ant4	2437	-13.04	≤8.00	PASS
11ax40MIMO	Ant6	2437	-13.74	≤8.00	PASS
11ax40MIMO	total	2437	-10.37	≤8.00	PASS
11ax40MIMO	Ant4	2452	-12.72	≤8.00	PASS
11ax40MIMO	Ant6	2452	-13.12	≤8.00	PASS
11ax40MIMO	total	2452	-9.91	≤8.00	PASS
11be20MIMO	Ant4	2412	-10.38	≤8.00	PASS
11be20MIMO	Ant6	2412	-9.73	≤8.00	PASS
11be20MIMO	total	2412	-7.03	≤8.00	PASS
11be20MIMO	Ant4	2437	-10.21	≤8.00	PASS
11be20MIMO	Ant6	2437	-10.93	≤8.00	PASS
11be20MIMO	total	2437	-7.54	≤8.00	PASS
11be20MIMO	Ant4	2462	-10.02	≤8.00	PASS
11be20MIMO	Ant6	2462	-10.48	≤8.00	PASS

11be20MIMO	total	2462	-7.23	≤8.00	PASS
11be40MIMO	Ant4	2422	-13.01	≤8.00	PASS
11be40MIMO	Ant6	2422	-13.53	≤8.00	PASS
11be40MIMO	total	2422	-10.25	≤8.00	PASS
11be40MIMO	Ant4	2437	-13.71	≤8.00	PASS
11be40MIMO	Ant6	2437	-12.17	≤8.00	PASS
11be40MIMO	total	2437	-9.86	≤8.00	PASS
11be40MIMO	Ant4	2452	-12.52	≤8.00	PASS
11be40MIMO	Ant6	2452	-13.86	≤8.00	PASS
11be40MIMO	total	2452	-10.13	≤8.00	PASS

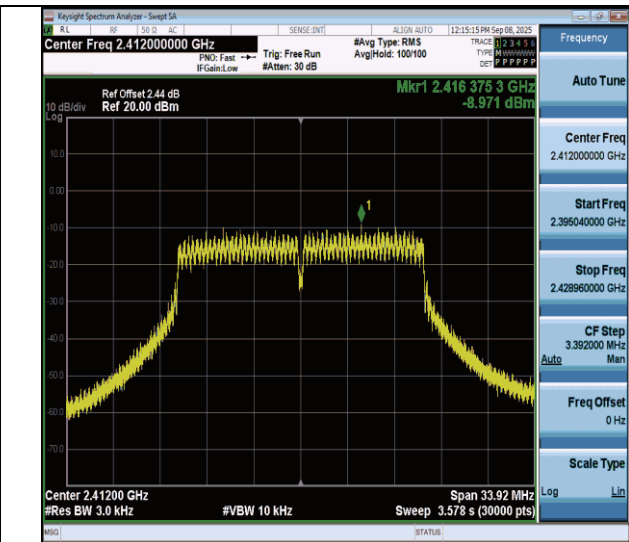
Test Graphs







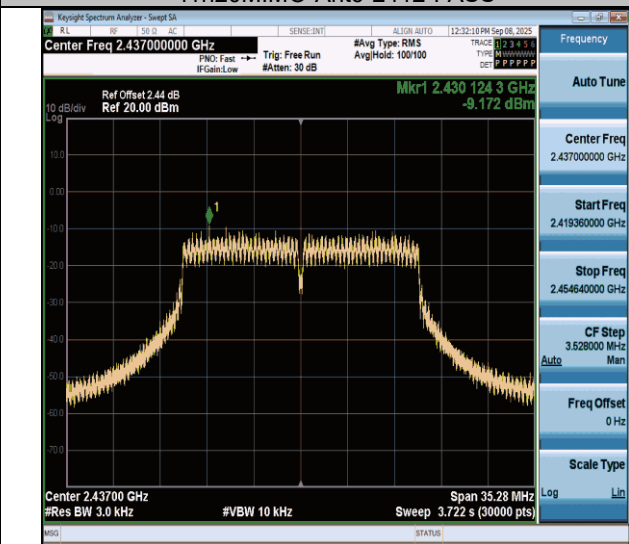
11n20MIMO-Ant4-2412-PASS



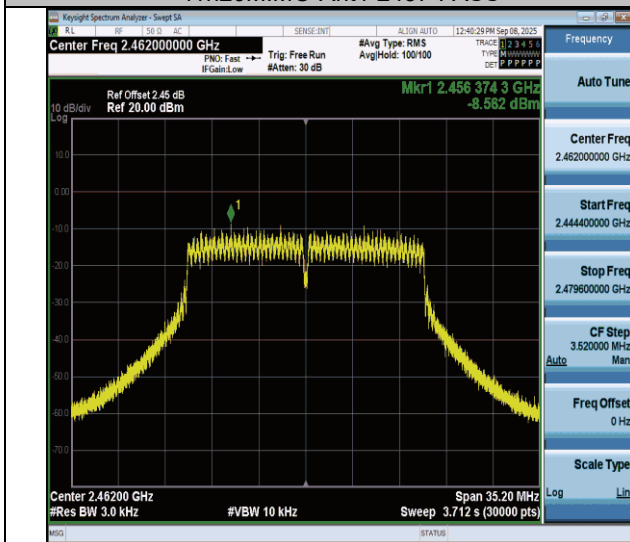
11n20MIMO-Ant6-2412-PASS



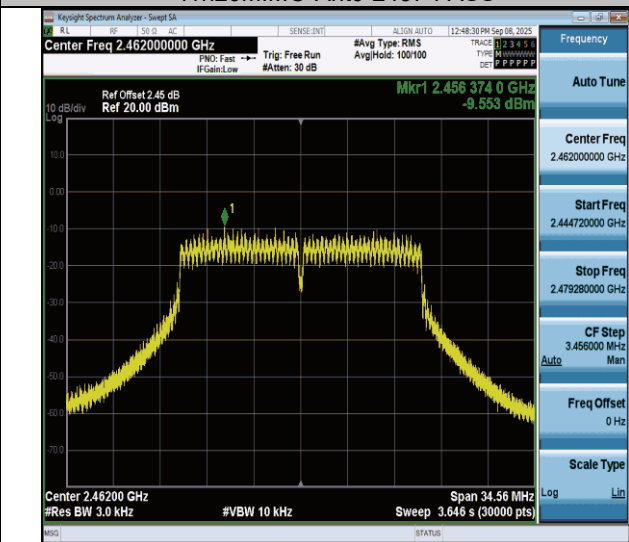
11n20MIMO-Ant4-2437-PASS



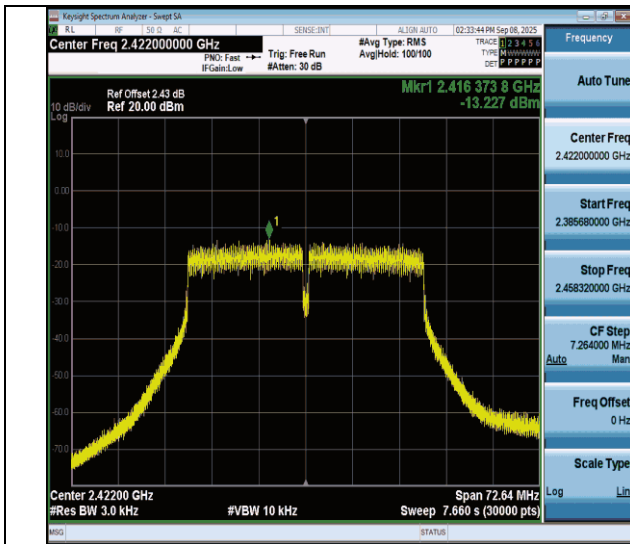
11n20MIMO-Ant6-2437-PASS



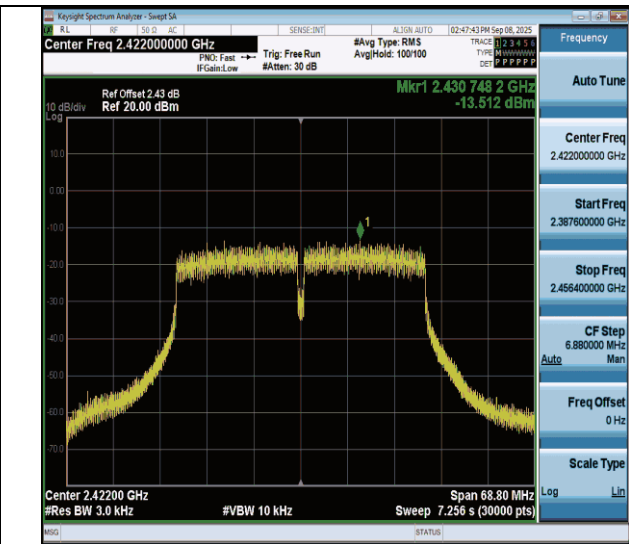
11n20MIMO-Ant4-2462-PASS



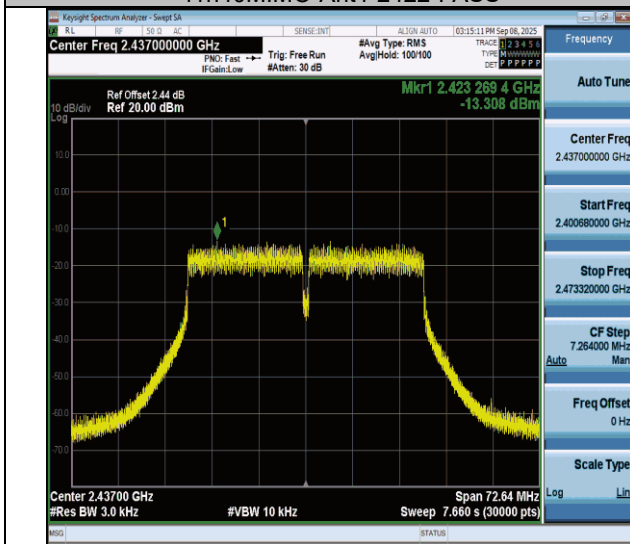
11n20MIMO-Ant6-2462-PASS



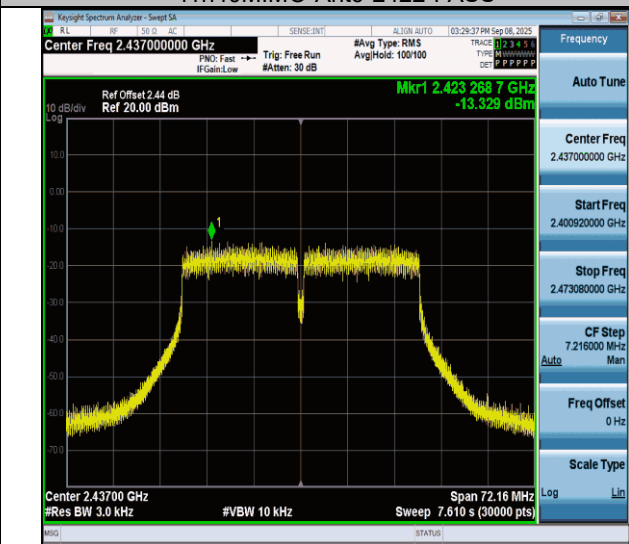
11n40MIMO-Ant4-2422-PASS



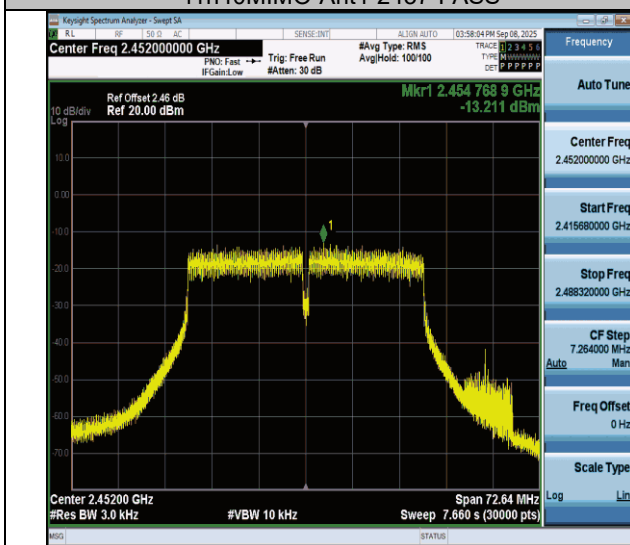
11n40MIMO-Ant6-2422-PASS



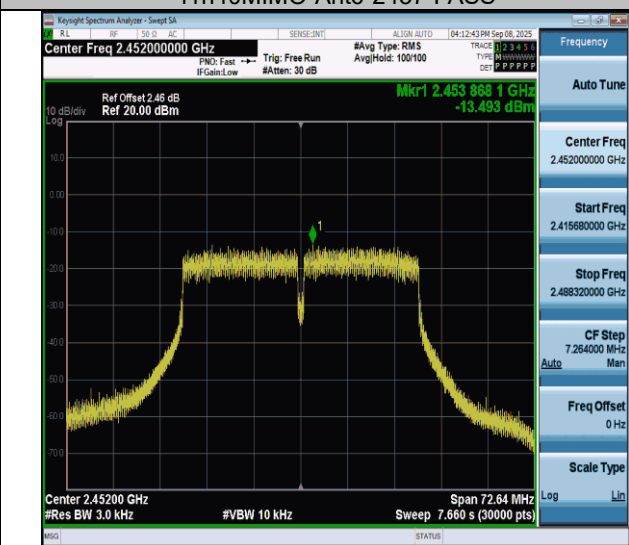
11n40MIMO-Ant4-2437-PASS



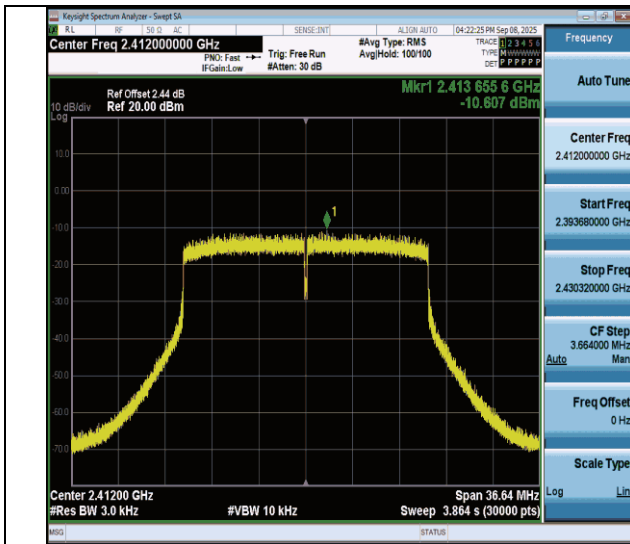
11n40MIMO-Ant6-2437-PASS



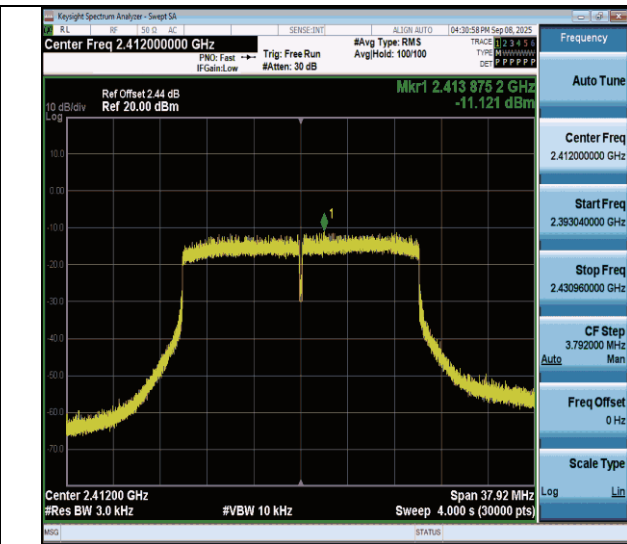
11n40MIMO-Ant4-2452-PASS



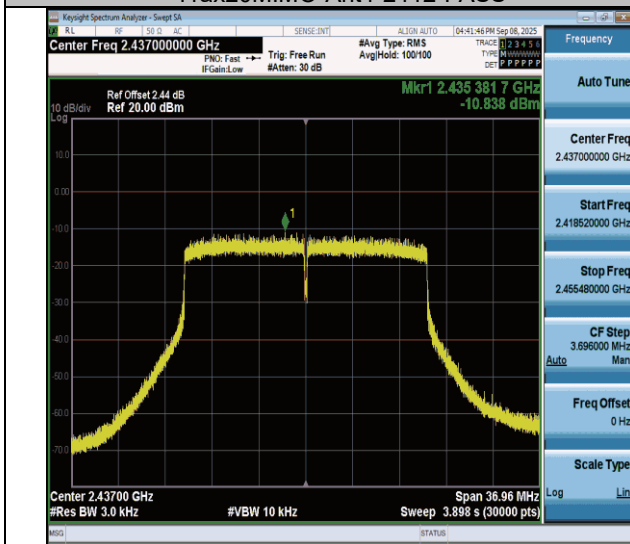
11n40MIMO-Ant6-2452-PASS



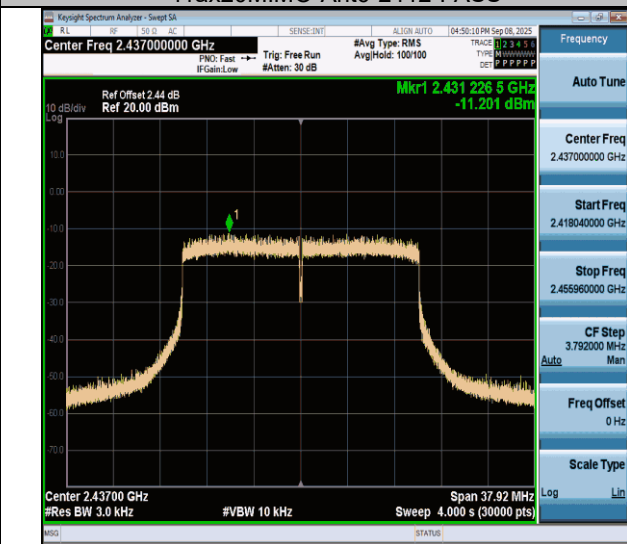
11ax20MIMO-Ant4-2412-PASS



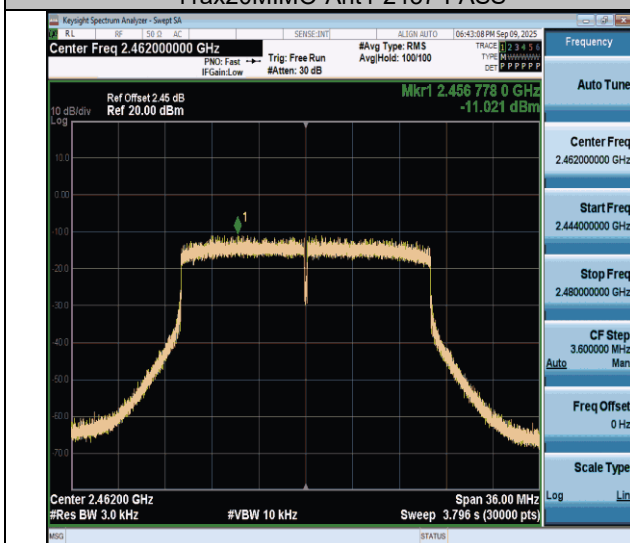
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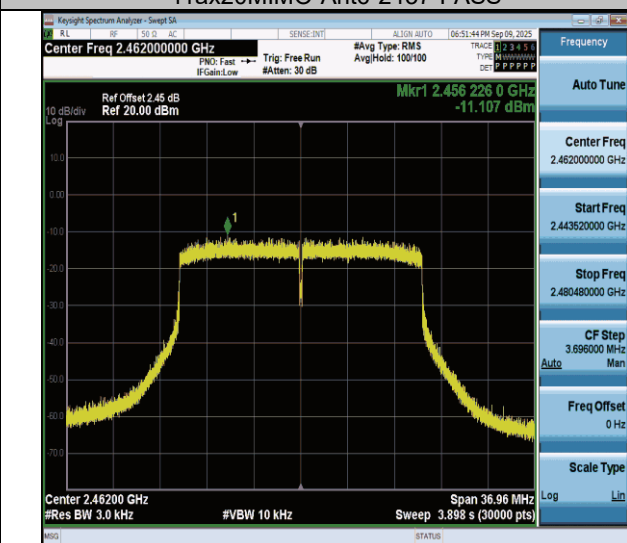
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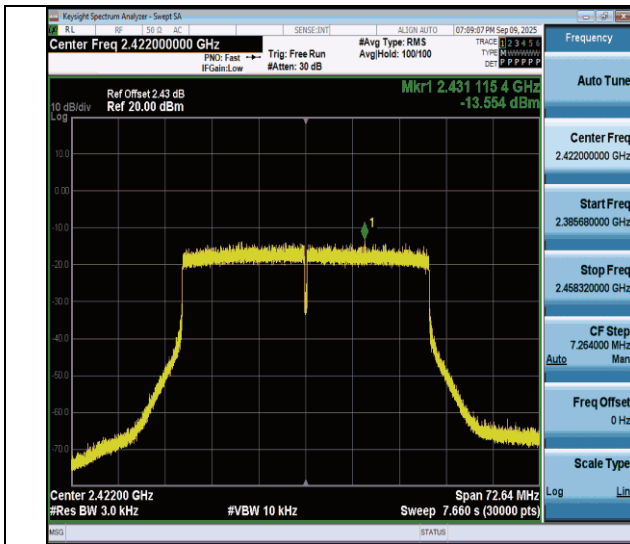
11ax20MIMO-Ant6-2437-PASS



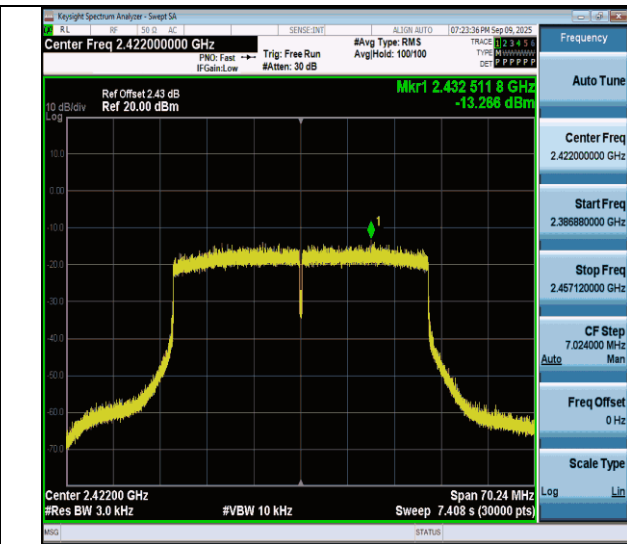
11ax20MIMO-Ant4-2462-PASS



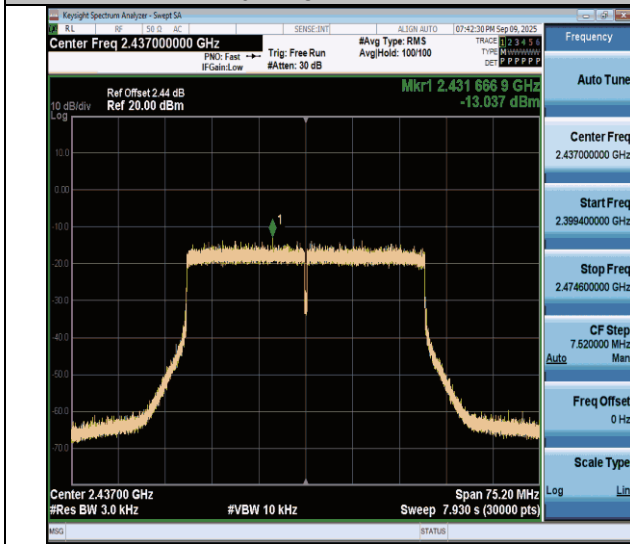
11ax20MIMO-Ant6-2462-PASS



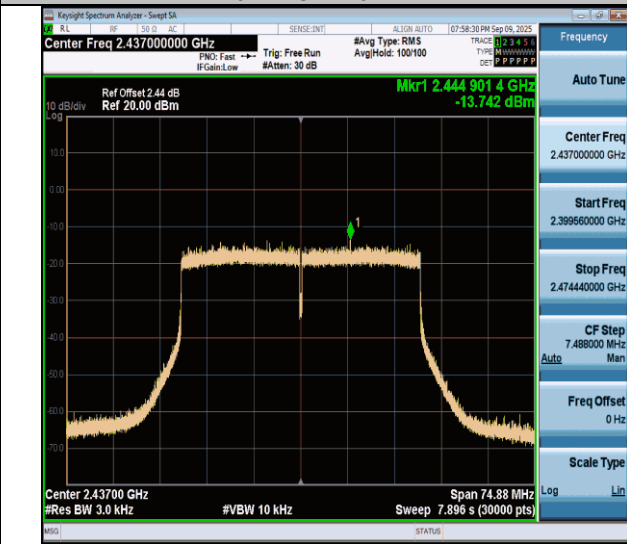
11ax40MIMO-Ant4-2422-PASS



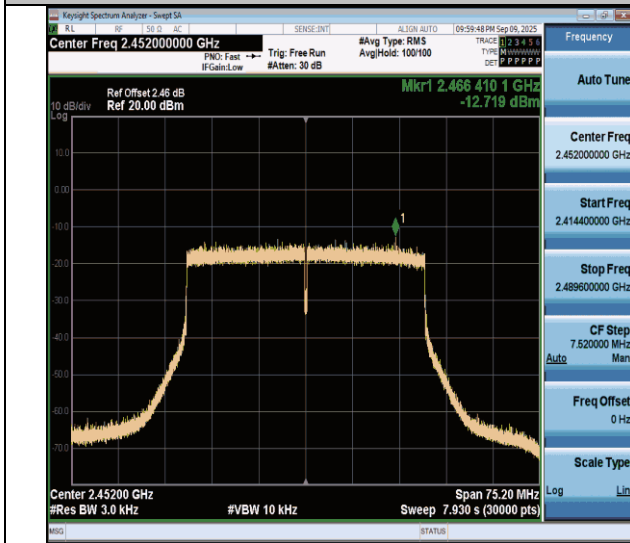
11ax40MIMO-Ant6-2422-PASS



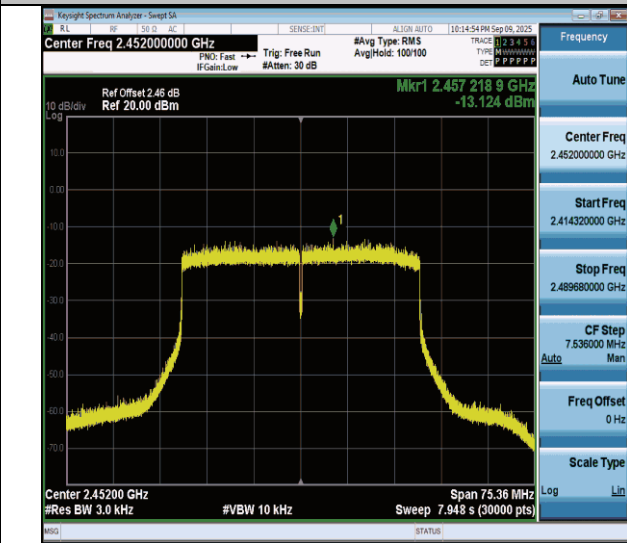
11ax40MIMO-Ant4-2437-PASS



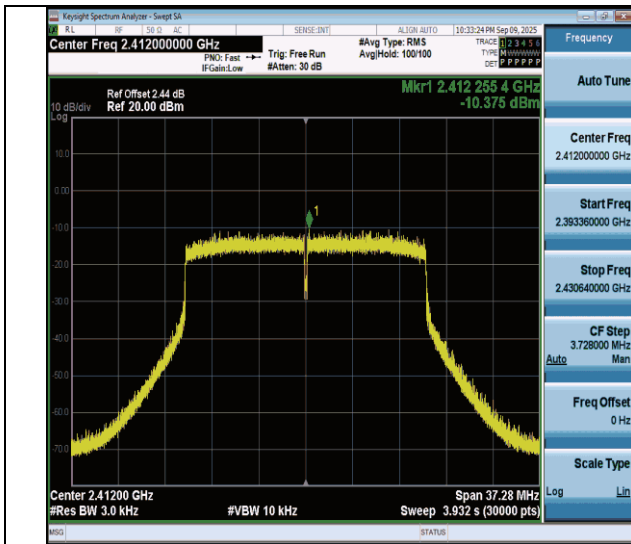
11ax40MIMO-Ant6-2437-PASS



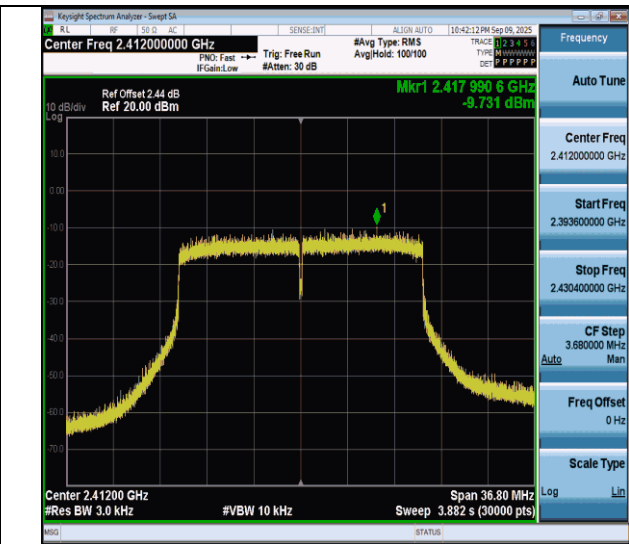
11ax40MIMO-Ant4-2452-PASS



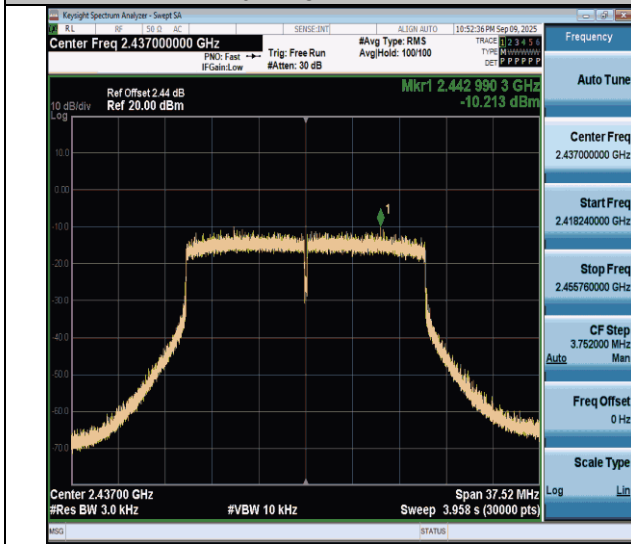
11ax40MIMO-Ant6-2452-PASS



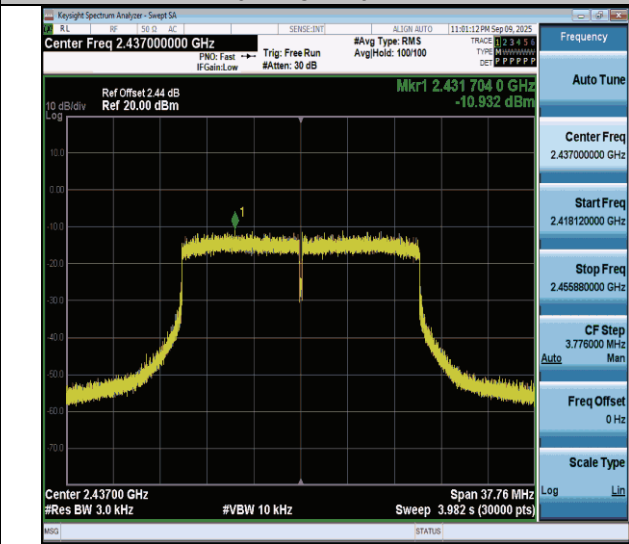
11be20MIMO-Ant4-2412-PASS



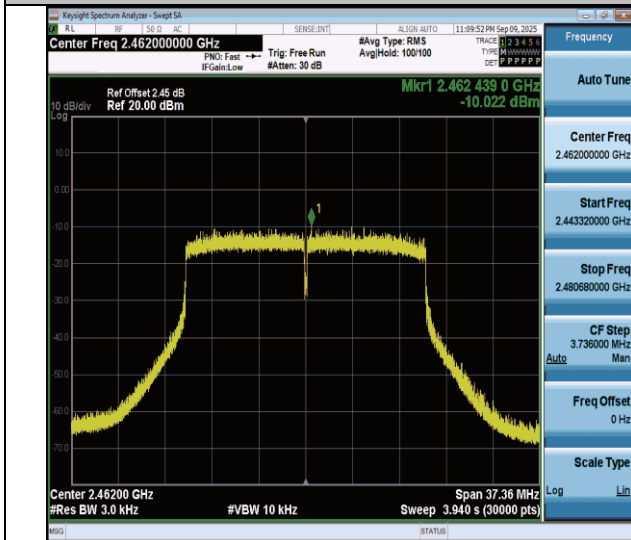
11be20MIMO-Ant6-2412-PASS



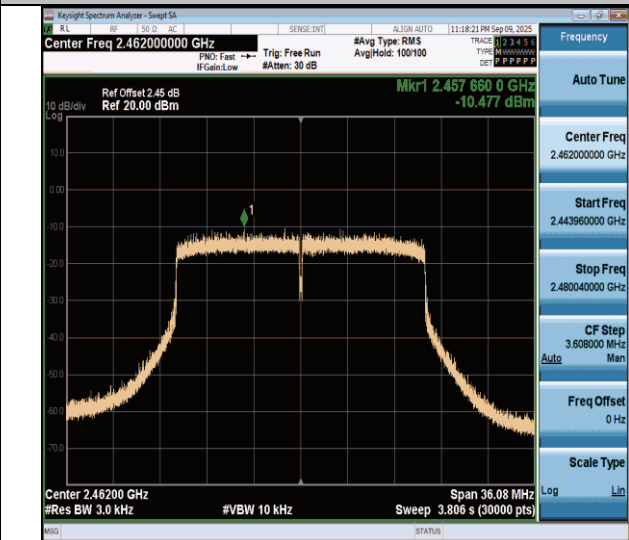
11be20MIMO-Ant4-2437-PASS



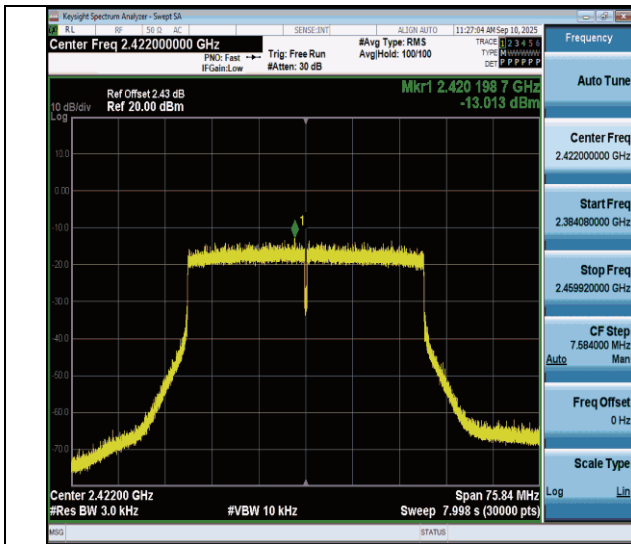
11be20MIMO-Ant6-2437-PASS



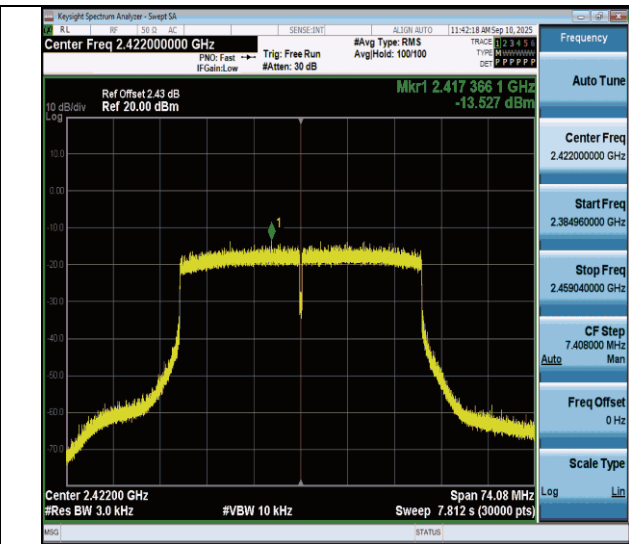
11be20MIMO-Ant4-2462-PASS



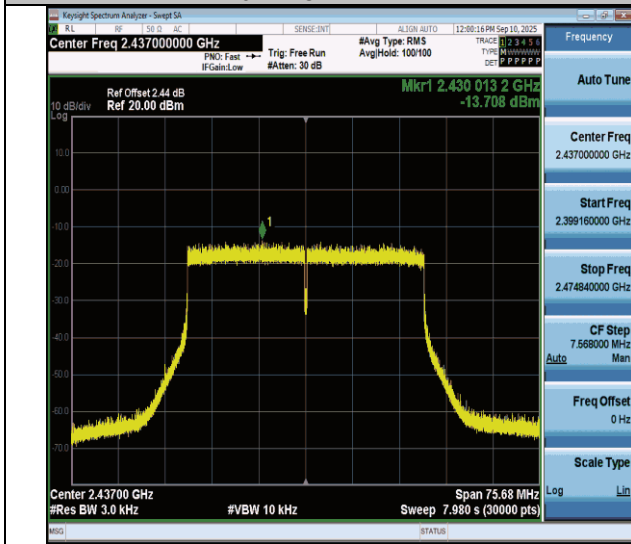
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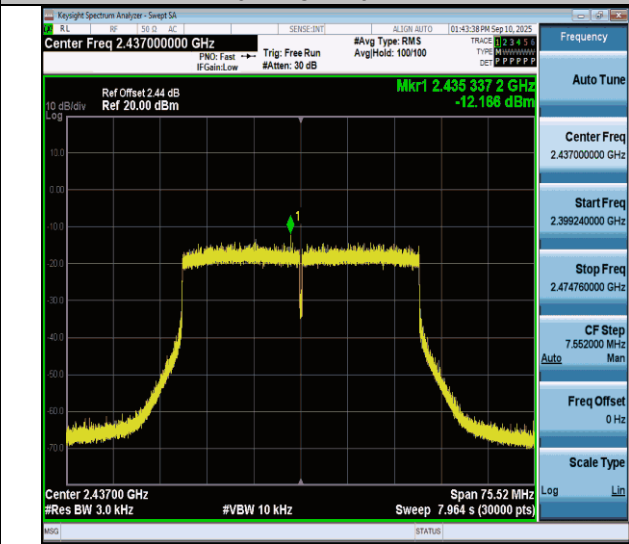
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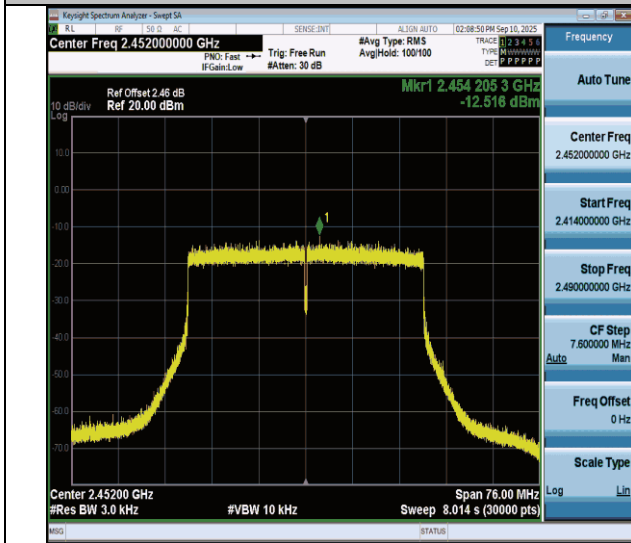
11be40MIMO-Ant6-2422-PASS



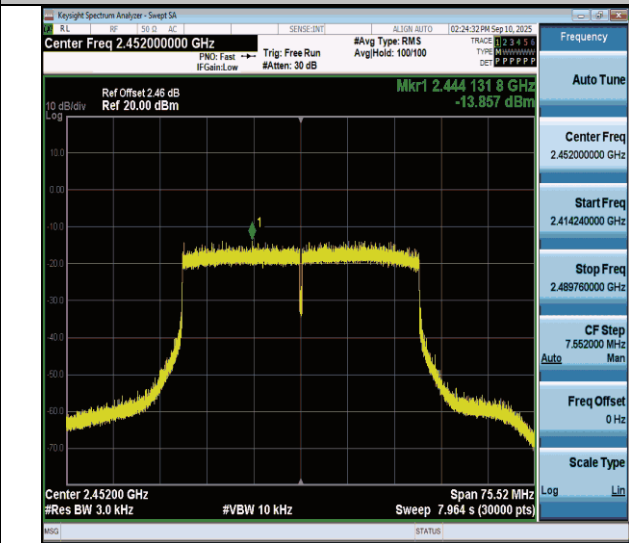
11be40MIMO-Ant4-2437-PASS



11be40MIMO-Ant6-2437-PASS



11be40MIMO-Ant4-2452-PASS



11be40MIMO-Ant6-2452-PASS