



FCC RF Test Report

FCC ID : UZ7ET4010B
EQUIPMENT : Enterprise Tablet
BRAND NAME : ZEBRA
MODEL NAME : ET4010B
APPLICANT : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
MANUFACTURER : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : Aug. 20, 2025 ~ Aug. 30, 2025

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China



TABLE OF CONTENTS

REVISION HISTORY.....	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Product Specification of Equipment Under Test.....	6
1.3 Modification of EUT	7
1.4 Testing Location	7
1.5 Test Software.....	7
1.6 Applicable Standards.....	8
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	9
2.1 Carrier Frequency and Channel	9
2.2 Test Mode.....	9
2.3 Connection Diagram of Test System.....	10
2.4 Support Unit used in test configuration and system	11
2.5 EUT Operation Test Setup	11
2.6 Measurement Results Explanation Example.....	11
3 TEST RESULT	12
3.1 6dB and 99% Bandwidth Measurement	12
3.2 Output Power Measurement.....	13
3.3 Power Spectral Density Measurement	15
3.4 Conducted Band Edges and Spurious Emission Measurement	17
3.5 Radiated Band Edges and Spurious Emission Measurement	18
3.6 AC Conducted Emission Measurement.....	22
3.7 Antenna Requirements.....	24
4 LIST OF MEASURING EQUIPMENT	26
5 MEASUREMENT UNCERTAINTY	27
APPENDIX A. CONDUCTED TEST RESULTS	
APPENDIX B. AC CONDUCTED EMISSION TEST RESULT	
APPENDIX C. RADIATED SPURIOUS EMISSION	
APPENDIX D. DUTY CYCLE PLOTS	
APPENDIX E. SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR550911C	Rev. 01	Initial issue of report	Sep. 16, 2025



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	99% Bandwidth	-	Report Only	-
3.2	15.247(b)	Conducted Output Power	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	Conducted Band Edges	$\leq 30\text{dBc}$	Pass	-
		Conducted Spurious Emission		Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 1.76 dB at 2389.300 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 7.68 dB at 0.160 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Enterprise Tablet
Brand Name	ZEBRA
Model Name	ET4010B
FCC ID	UZ7ET4010B
SN Code	Conducted: 251345247E0032 Conduction: 251575247E0003 Radiation: 251575247E0019 for Sample 1 251575247E0006 for Sample 2
HW Version	EV1
SW Version	qssi_64-userdebug 15 15-07-16.00-VG-U00-PRD-ERS-04 210 release-keys
MFD	16JUL25
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two types of EUT: Sample 1 without Scanner and Sample 2 with Scanner. According to the difference, Sample 1 was chose to perform full test and Sample 2 to verify the worst cases.

3. Specification of Accessory				
Battery	Brand Name	Zebra	Model	BT-000528

Supported Unit used in test configuration and system				
AC Adapter 1 (TYPE C Wall Charger 1)	Brand Name	Zebra	Part Number	PWR-WUA5V45W1US
Earphone 1 (Wired headset USB-C)	Brand Name	Zebra	Part Number	HDST-USBC-PTT 1-01
Earphone 2 (Rugged Bluetooth Headset)	Brand Name	Zebra	Part Number	HS3100-0TH
Earphone 3 (3.5mm PTT Headset)	Brand Name	Zebra	Part Number	HDST-35MM-PTT 1-02
Earphone 4 (Rugged Headset)	Brand Name	Zebra	Part Number	HS2100-0TH
Earphone 5 (USB-C Wired Earbuds)	Brand Name	Avantree	Part Number	C171
Type C-Audio Cable (Type C to 3.5mm)	Brand Name	Zebra	Part Number	ADP-USBC-35MM1-01
3.5mm to 3.5mm audio connector	Brand Name	Zebra	Part Number	CBL-HS2100-3MS1-01
USB Cable 1 (USB-C to C Cable)	Brand Name	Zebra	Part Number	CBL-EC5X-USBC3A-01
USB Cable 2 (USB-A to C Cable)	Brand Name	Zebra	Part Number	CBL-TC5X-USBC2A-01
USB Cable 3 (USB-C to C Cable)	Brand Name	Zebra	Part Number	CBL-TN28-USBC2C-01

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz
Maximum Output Power to antenna	MIMO<ANT6+7> 802.11b : 27.34 dBm (0.5420 W) 802.11g : 23.29 dBm (0.2133 W) 802.11n HT20 : 22.48 dBm (0.1770 W) 802.11ac VHT20 : 22.57 dBm (0.1807 W) 802.11ax HE20 : 22.64 dBm (0.1837 W) 802.11be EHT20 : 22.74 dBm (0.1879 W)
99% Occupied Bandwidth	802.11b : 13.147MHz 802.11g : 17.263MHz 802.11ac VHT20 : 18.462MHz 802.11be EHT20 : 17.303MHz
Antenna Type / Gain	<Ant 6> : IFA Antenna type with gain 0.72 dBi <Ant 7> : IFA Antenna type with gain 1.01 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11ax : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM) 802.11be: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM / 4096QAM)

Note:

- The device supports WLAN MIMO CDD mode for 11b/g/n/ac/ax/be and Tx Beamforming mode for 11ax/be
- For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to the higher normal output power.
- For CDD and Beamforming modes, the CDD mode is the worst case, Beamforming power is set 3dB lower than CDD power. Thus only CDD mode was evaluated in this report by referring to their maximum conducted power.
- For 802.11n/11ac mode, the whole testing have assessed only 802.11ac VHT20 by referring to the higher output power for conducted test items.
- For 802.11ax/11be mode, the whole testing have assessed only 802.11be EHT20 by referring to the higher output power.
- 802.11ax/be support OFDMA full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) test output power, the full RU power/PSD > partial RU, therefore the full RU perform full, and partial RU verify bandedge/spurious.
- 802.11be support OFDMA for small size RU, 52Tone + 26 Tone or 106Tone + 26Tone, test combination as below.

<Small size RU 52+26 Tone>:

Bandwidth	Tones		Index		For test modes configure
20MHz	26	52	1	38	1
20MHz	52	26	39	7	3

<Small size RU 106+26 Tone>:

Bandwidth	Tones		Index		For test modes configure
20MHz	106	26	53	4	1
20MHz	26	106	4	54	2

1.3 Modification of EUT

No modifications are made to the EUT during all test items.

1.4 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS 03CH05-KS TH01-KS	CN1257	314309

1.5 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH05-KS	AUDIX	E3	210616
3.	CO01-KS	AUDIX	E3	6.2009-8-24



1.6 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2020

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437	-	-

2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

MIMO Antenna

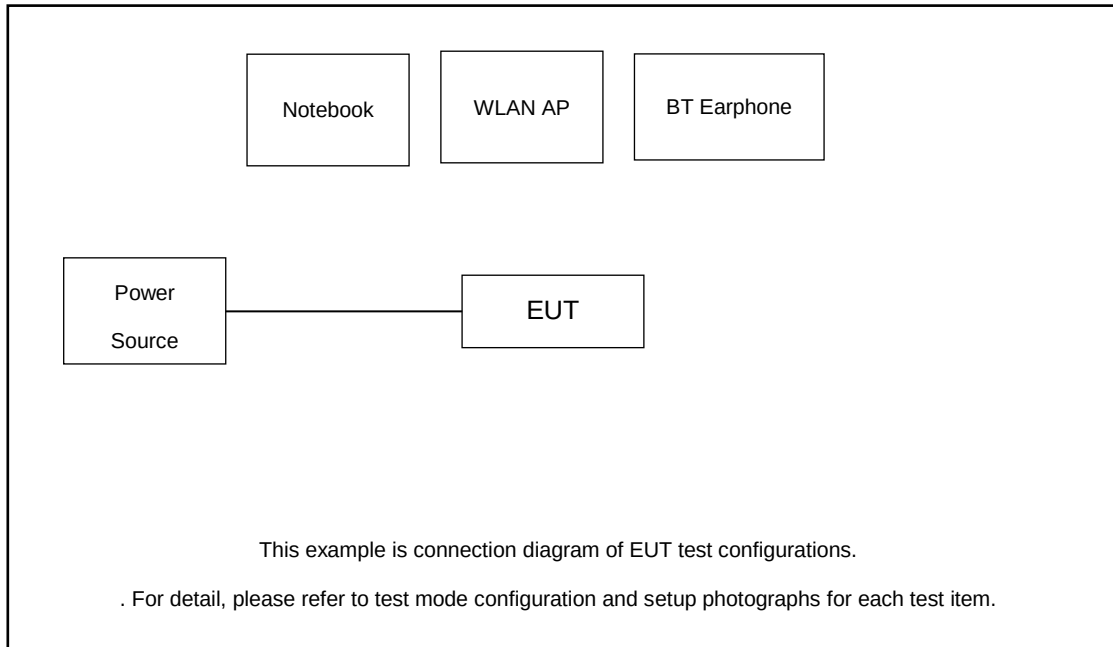
Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11ac VHT20	MCS0
802.11ax HE20	MCS0
802.11be EHT20	MCS0

Test Cases	
AC Conducted Emission	Mode 1 :WLAN 2.4G Link + Bluetooth Link + USB Cable 1 (CBL-EC5X-USBC3A-01) + AC Adapter 1 (PWR-WUA5V45W1US)+ Battery (BT-000528)

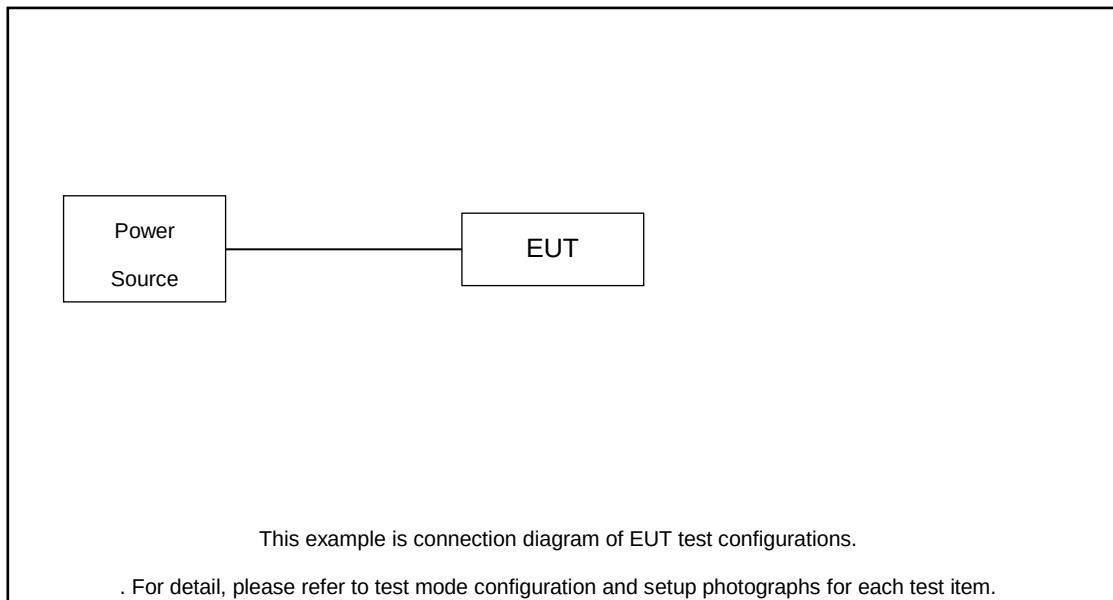
Remark: For Radiated Test Cases, The tests were performance with Adapter and USB Cable.

2.3 Connection Diagram of Test System

AC Conducted Emission:



Radiated Emission:



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
2.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 2.12 dB and 20dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 2.12 + 20 = 22.12 \text{ (dB)} \end{aligned}$$

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

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

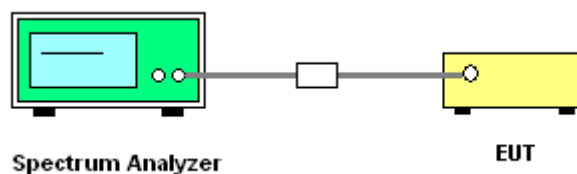
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 11.8.1 for 6dB BW and 6.9.3 for 99% occupied bandwidth measurements
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. Set the Video bandwidth (VBW) $\geq 3 \times \text{RBW}$. Detector = Peak. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1%~5% of OBW and set the Video bandwidth (VBW) approximately three times the RBW.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

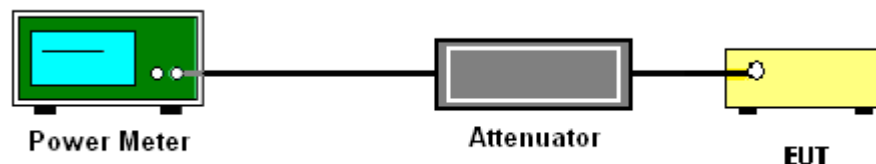
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2020 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup





3.2.5 Test Result of Average Output Power

TEST RESULTS DATA															
Average Output Power															
2.4GHz Band															
Mode							Power Setting	Average Conducted Power with duty factor(dBm)			Conducted Power Limit (dBm)	Gain(dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass/Fail
Band	CDD	N _{TX}	Channel	Freq (MHz)	Data Rate	RU Config		Ant 6	Ant 7	Ant 6+7		Ant 6+7	Ant 6+7		
11b	CDD	2	1	2412	1Mbps	-	20.00	22.62	20.48	24.69	30.00	1.01	25.70	36.00	Pass
11b	CDD	2	6	2437	1Mbps	-	21.50	25.07	22.93	27.14	30.00	1.01	28.15	36.00	Pass
11b	CDD	2	11	2462	1Mbps	-	21.50	24.76	23.86	27.34	30.00	1.01	28.35	36.00	Pass
11g	CDD	2	1	2412	6Mbps	-	17.50	17.95	17.65	20.81	30.00	1.01	21.82	36.00	Pass
11g	CDD	2	6	2437	6Mbps	-	20.00	20.58	19.96	23.29	30.00	1.01	24.30	36.00	Pass
11g	CDD	2	11	2462	6Mbps	-	17.50	17.49	17.51	20.51	30.00	1.01	21.52	36.00	Pass
HT20	CDD	2	1	2412	MCS0	-	17.50	17.68	17.35	20.53	30.00	1.01	21.54	36.00	Pass
HT20	CDD	2	6	2437	MCS0	-	19.50	19.69	19.24	22.48	30.00	1.01	23.49	36.00	Pass
HT20	CDD	2	11	2462	MCS0	-	17.50	17.24	17.21	20.24	30.00	1.01	21.25	36.00	Pass
VHT20	CDD	2	1	2412	MCS0	-	17.50	17.77	17.44	20.62	30.00	1.01	21.63	36.00	Pass
VHT20	CDD	2	6	2437	MCS0	-	19.50	19.76	19.34	22.57	30.00	1.01	23.58	36.00	Pass
VHT20	CDD	2	11	2462	MCS0	-	17.50	17.33	17.29	20.32	30.00	1.01	21.33	36.00	Pass
HE20	CDD	2	1	2412	MCS0	Full	17.50	17.87	17.53	20.71	30.00	1.01	21.72	36.00	Pass
HE20	CDD	2	1	2412	MCS0	RU 26/0	7.50	8.56	8.37	11.48	30.00	1.01	12.49	36.00	Pass
HE20	CDD	2	1	2412	MCS0	RU 52/37	10.00	10.95	10.65	13.81	30.00	1.01	14.82	36.00	Pass
HE20	CDD	2	1	2412	MCS0	RU 106/53	13.00	13.74	13.77	16.77	30.00	1.01	17.78	36.00	Pass
HE20	CDD	2	6	2437	MCS0	Full	19.50	19.83	19.43	22.64	30.00	1.01	23.65	36.00	Pass
HE20	CDD	2	11	2462	MCS0	Full	17.50	17.43	17.39	20.42	30.00	1.01	21.43	36.00	Pass
HE20	CDD	2	11	2462	MCS0	RU 26/8	7.50	8.88	8.63	11.77	30.00	1.01	12.78	36.00	Pass
HE20	CDD	2	11	2462	MCS0	RU 52/40	10.00	11.02	10.95	14.00	30.00	1.01	15.01	36.00	Pass
HE20	CDD	2	11	2462	MCS0	RU 106/54	13.00	13.83	13.76	16.81	30.00	1.01	17.82	36.00	Pass
EHT20	CDD	2	1	2412	MCS0	Full	17.50	17.93	17.63	20.79	30.00	1.01	21.80	36.00	Pass
EHT20	CDD	2	1	2412	MCS0	RU 26/0	7.50	8.66	8.44	11.56	30.00	1.01	12.57	36.00	Pass
EHT20	CDD	2	1	2412	MCS0	RU 52/37	10.00	11.05	10.72	13.90	30.00	1.01	14.91	36.00	Pass
EHT20	CDD	2	1	2412	MCS0	RU 106/53	13.00	13.83	13.87	16.86	30.00	1.01	17.87	36.00	Pass
EHT20	CDD	2	1	2412	MCS0	RU 52+26	10.00	10.89	10.79	13.85	30.00	1.01	14.86	36.00	Pass
EHT20	CDD	2	1	2412	MCS0	RU 106+26	13.00	13.85	13.84	16.86	30.00	1.01	17.87	36.00	Pass
EHT20	CDD	2	6	2437	MCS0	Full	19.50	19.92	19.53	22.74	30.00	1.01	23.75	36.00	Pass
EHT20	CDD	2	11	2462	MCS0	Full	17.50	17.51	17.45	20.49	30.00	1.01	21.50	36.00	Pass
EHT20	CDD	2	11	2462	MCS0	RU 26/8	7.50	8.95	8.69	11.83	30.00	1.01	12.84	36.00	Pass
EHT20	CDD	2	11	2462	MCS0	RU 52/40	10.00	11.08	11.04	14.07	30.00	1.01	15.08	36.00	Pass
EHT20	CDD	2	11	2462	MCS0	RU 106/54	13.00	13.91	13.85	16.89	30.00	1.01	17.90	36.00	Pass
EHT20	CDD	2	11	2462	MCS0	RU 52+26	10.00	10.64	10.45	13.56	30.00	1.01	14.57	36.00	Pass
EHT20	CDD	2	11	2462	MCS0	RU 106+26	13.00	13.58	13.48	16.54	30.00	1.01	17.55	36.00	Pass

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

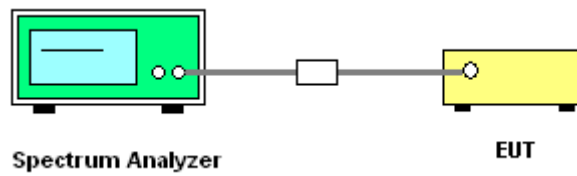
3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2020 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01:

Method (b): Measure and sum spectral maxima across the outputs.

The measurement on each individual output were performed with the same span and number on each individual output. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

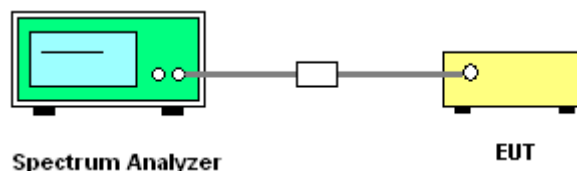
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 11.11.3
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Please refer to Appendix A.

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (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

3.5.2 Measuring Instruments

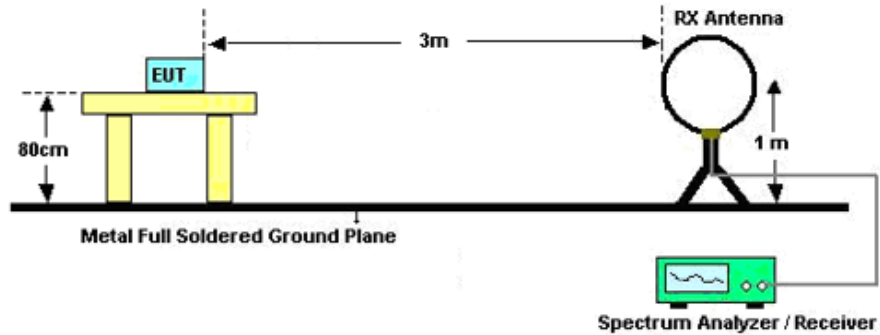
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

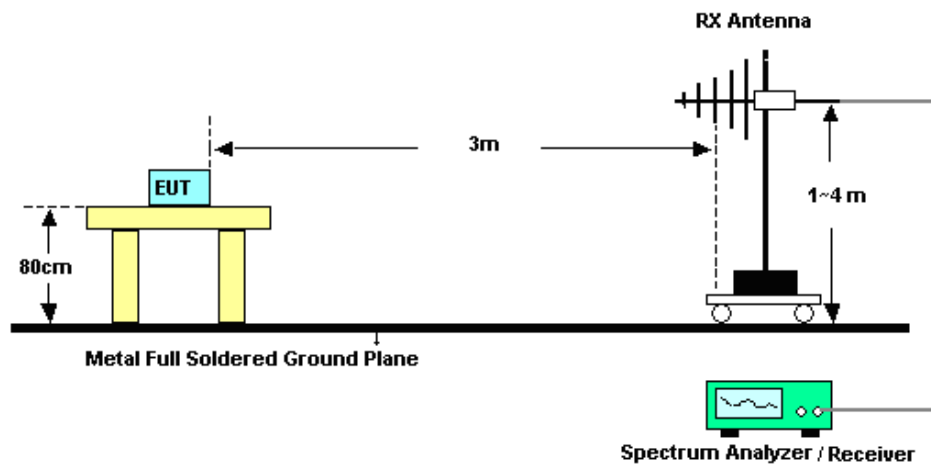
1. The testing follows ANSI C63.10-2020 clause 6.3, 6.5, 6.6, 11.11 and 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

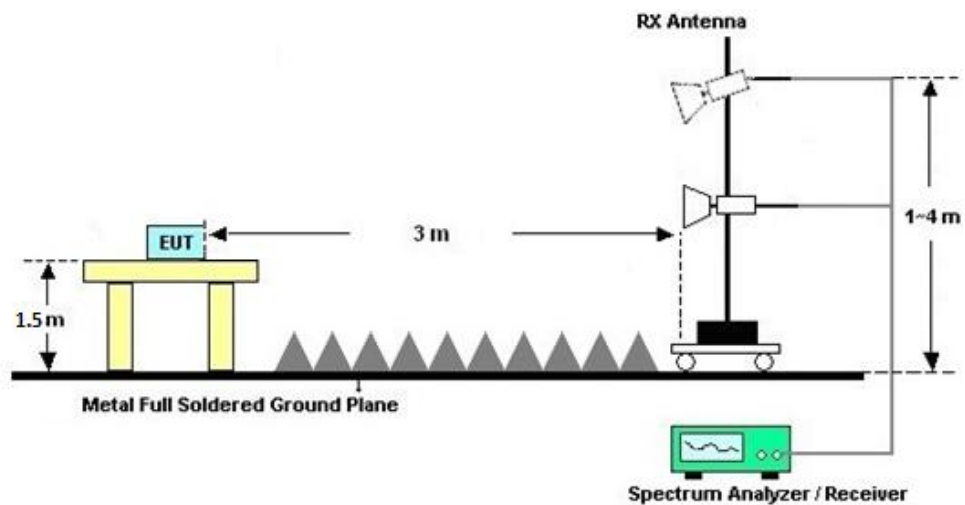
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



**3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	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.

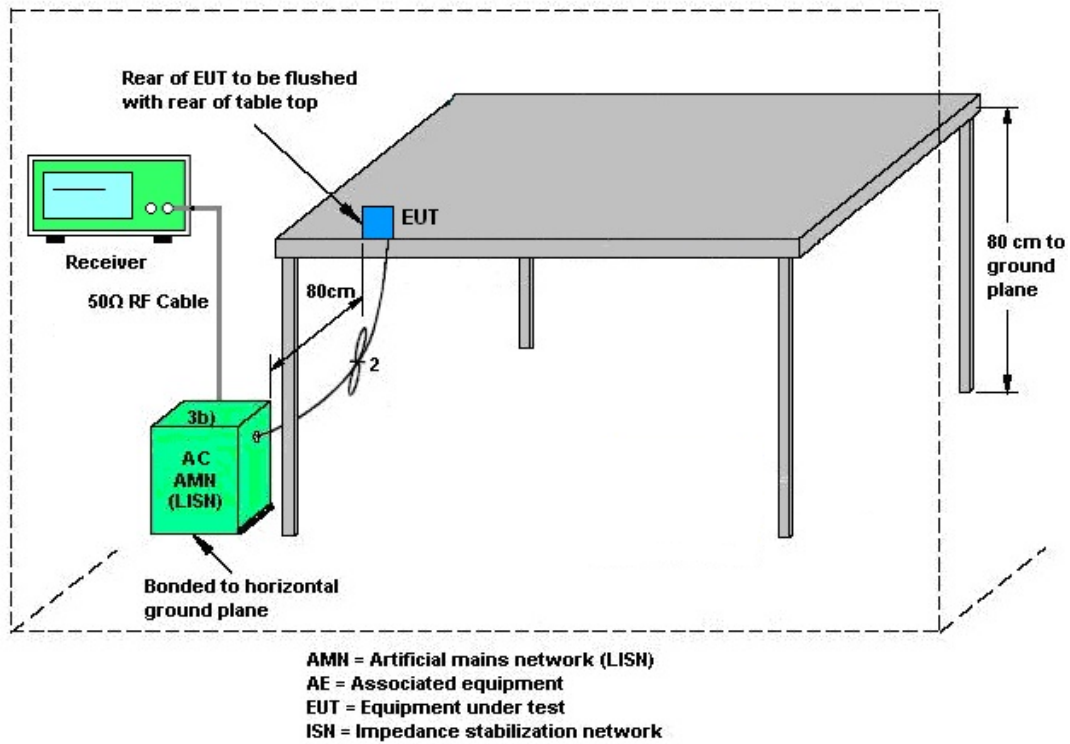
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached Antenna or of an Antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

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

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

For power measurements on IEEE 802.11 devices,

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

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;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

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

The directional gain "DG" is calculated as following table.

<CDD Modes>						
			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant. 6 (dBi)	Ant. 7 (dBi)				
2.4 GHz	0.72	1.01	1.01	3.88	0.00	0.00

Power Limit Reduction = $DG(Power) - 6dBi$, (min = 0)

PSD Limit Reduction = $DG(PSD) - 6dBi$, (min = 0)

TXBF modes

The EUT supports TXBF mode for 11ax.

FCC KDB 662911 D01 Multiple Transmitter Output v02r01, directional gain is calculated as

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

The directional gain calculation is following F)2)e)ii) of KDB 662911 D01 v02r01.

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

The directional gain “DG” is calculated as following table.

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 6	Ant. 7	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
2.4 GHz	0.72	1.01	3.88	3.88	0.00	0.00

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A	MY57290151	3Hz~8.5GHz;Max 30dBm	Jul. 03, 2025	Jul. 27, 2025	Jul. 02, 2026	Radiation (03CH05-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY60242126	10Hz~44G,MAX 30dB	Oct. 10, 2024	Jul. 27, 2025	Oct. 09, 2025	Radiation (03CH05-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Jul. 27, 2025	Sep. 07, 2025	Radiation (03CH05-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz~1GHz	Mar. 24, 2025	Jul. 27, 2025	Mar. 23, 2026	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00251982	1GHz~18GHz	Aug. 16, 2024	Jul. 27, 2025	Aug. 15, 2025	Radiation (03CH05-KS)
SHF-EHF Horn	Com-power	AH-840	101116	18GHz~40GHz	Oct. 22, 2024	Jul. 27, 2025	Oct. 21, 2025	Radiation (03CH05-KS)
Amplifier	SONOMA	310N	380826	9KHz~1GHz	Jul. 02, 2025	Jul. 27, 2025	Jul. 01, 2026	Radiation (03CH05-KS)
Amplifier	EM	EM18G40GA	060851	18~40GHz	Jan. 02, 2025	Jul. 27, 2025	Jan. 01, 2026	Radiation (03CH05-KS)
high gain Amplifier	EM	EM01G18GA	060843	1Ghz~18Ghz	Jan. 02, 2025	Jul. 27, 2025	Jan. 01, 2026	Radiation (03CH05-KS)
Amplifier	EM	EM01G18GA	060833	1Ghz~18Ghz	Jan. 02, 2025	Jul. 27, 2025	Jan. 01, 2026	Radiation (03CH05-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jul. 27, 2025	NCR	Radiation (03CH05-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jul. 27, 2025	NCR	Radiation (03CH05-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jul. 27, 2025	NCR	Radiation (03CH05-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 16, 2025	Aug. 30, 2025	Apr. 15, 2026	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Dec. 24, 2024	Aug. 30, 2025	Dec. 23, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 09, 2024	Aug. 30, 2025	Oct. 08, 2025	Conduction (CO01-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Aug. 20, 2025~Aug. 21, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2025	Aug. 20, 2025~Aug. 21, 2025	Jan. 01, 2026	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2025	Aug. 20, 2025~Aug. 21, 2025	Jan. 01, 2026	Conducted (TH01-KS)

NCR: No Calibration Required

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Conducted Spurious Emission & Bandedge	±2.00 dB
Occupied Channel Bandwidth	±0.384%
Conducted Power	±0.90 dB
Conducted Power Spectral Density	±0.90 dB
Frequency	±0.4 Hz

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84 dB
---	---------

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.30 dB
---	---------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.18 dB
---	---------

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.88 dB
---	---------

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.36 dB
---	---------

----- THE END -----



Appendix A. Conducted Test Results



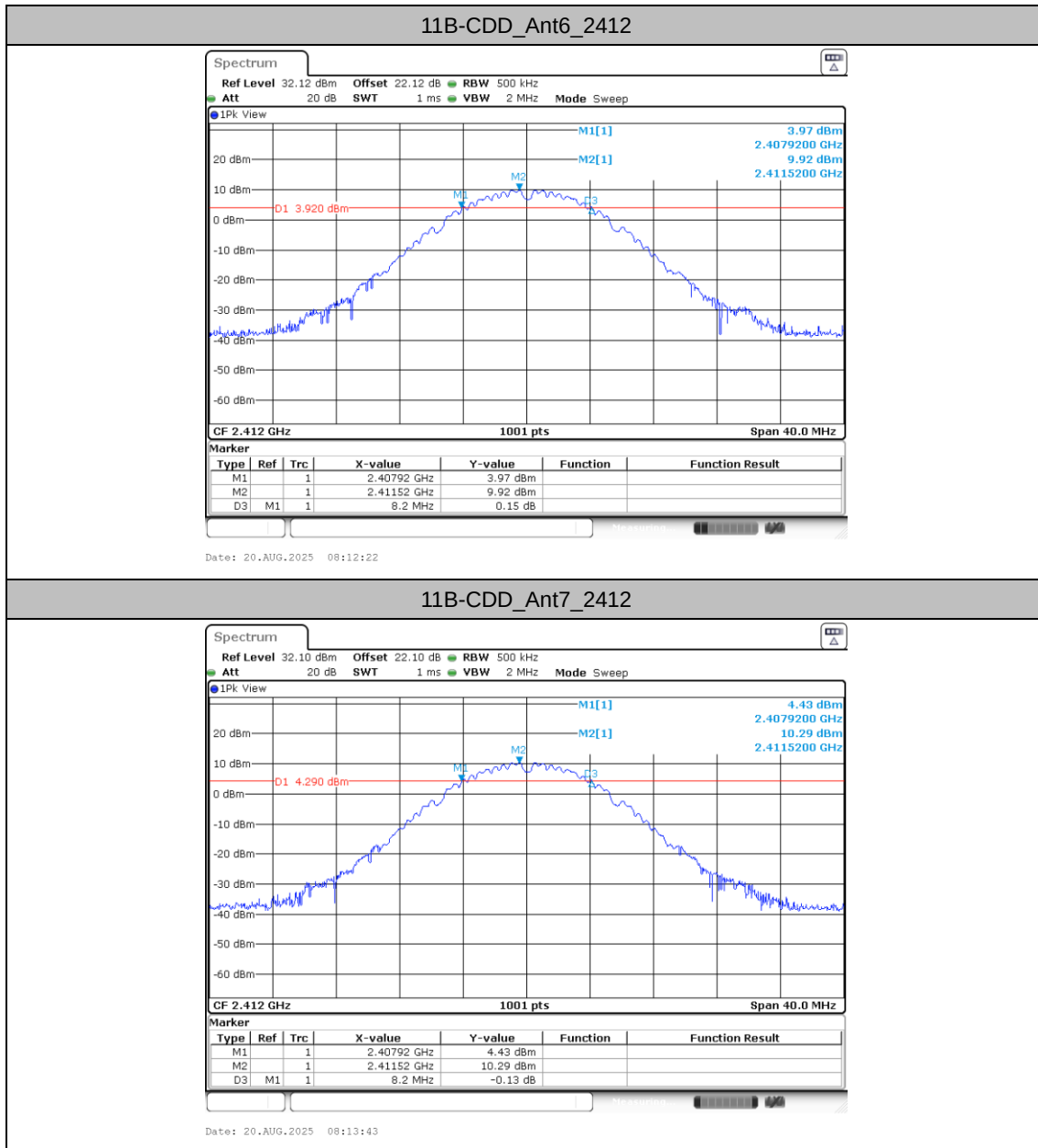
DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant6	2412	8.20	2407.92	2416.12	0.5	PASS
	Ant7	2412	8.20	2407.92	2416.12	0.5	PASS
	Ant6	2437	8.20	2432.96	2441.16	0.5	PASS
	Ant7	2437	8.20	2432.92	2441.12	0.5	PASS
	Ant6	2462	8.20	2457.96	2466.16	0.5	PASS
	Ant7	2462	8.20	2457.92	2466.12	0.5	PASS
11G-CDD	Ant6	2412	16.48	2403.84	2420.32	0.5	PASS
	Ant7	2412	16.52	2403.80	2420.32	0.5	PASS
	Ant6	2437	16.52	2428.84	2445.36	0.5	PASS
	Ant7	2437	16.52	2428.80	2445.32	0.5	PASS
	Ant6	2462	16.52	2453.80	2470.32	0.5	PASS
	Ant7	2462	16.52	2453.80	2470.32	0.5	PASS
11AC20MIMO	Ant6	2412	17.76	2403.20	2420.96	0.5	PASS
	Ant7	2412	17.68	2403.20	2420.88	0.5	PASS
	Ant6	2437	17.76	2428.20	2445.96	0.5	PASS
	Ant7	2437	17.72	2428.16	2445.88	0.5	PASS
	Ant6	2462	16.52	2453.80	2470.32	0.5	PASS
	Ant7	2462	16.56	2453.76	2470.32	0.5	PASS
11BE20MIMO	Ant6	2412	16.48	2403.84	2420.32	0.5	PASS
	Ant7	2412	16.48	2403.84	2420.32	0.5	PASS
	Ant6	2437	16.40	2428.88	2445.28	0.5	PASS
	Ant7	2437	16.52	2428.80	2445.32	0.5	PASS
	Ant6	2462	16.48	2453.80	2470.28	0.5	PASS
	Ant7	2462	16.52	2453.80	2470.32	0.5	PASS

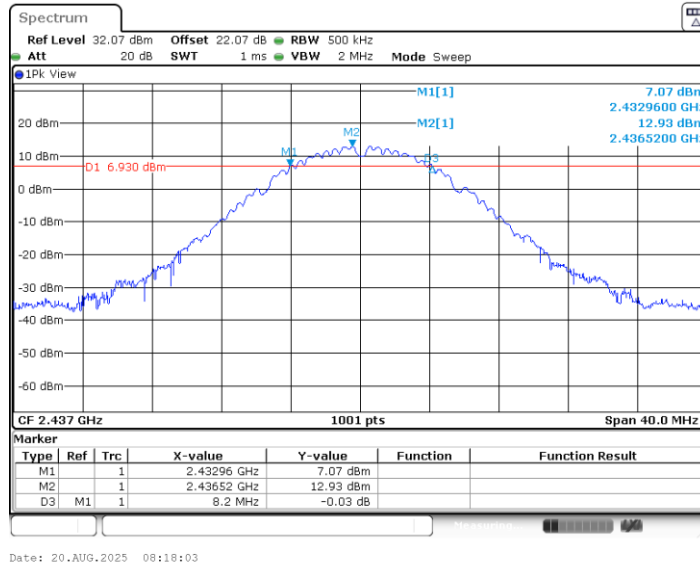


Test Graphs

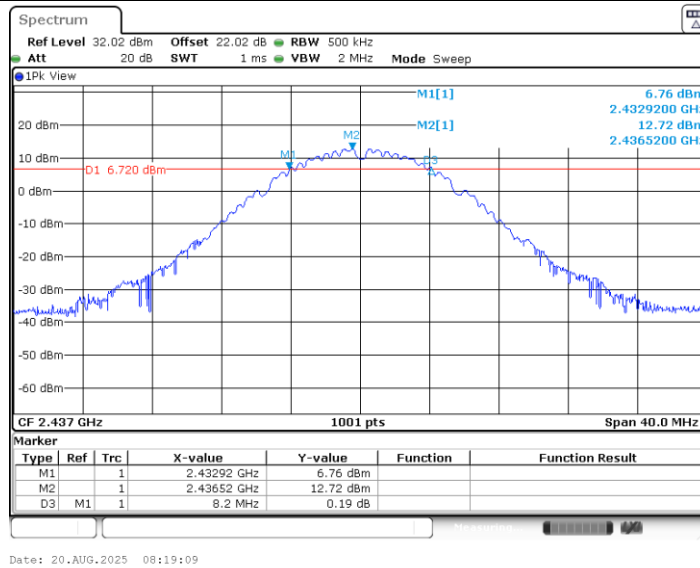




11B-CDD_Ant6_2437

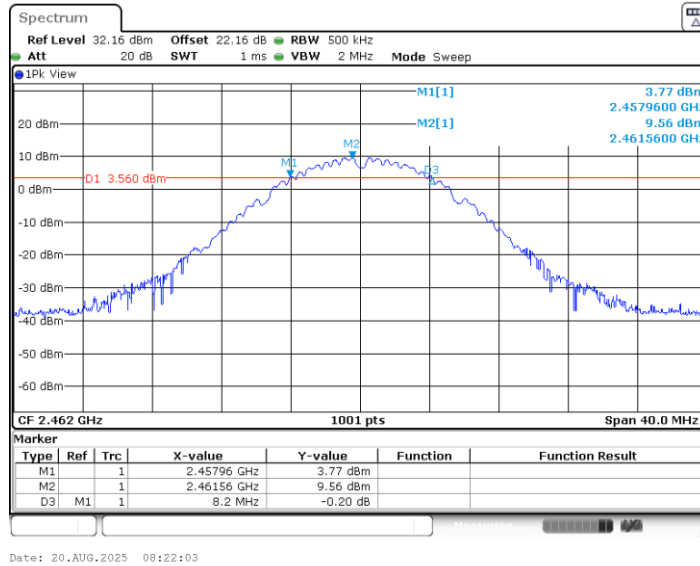


11B-CDD_Ant7_2437

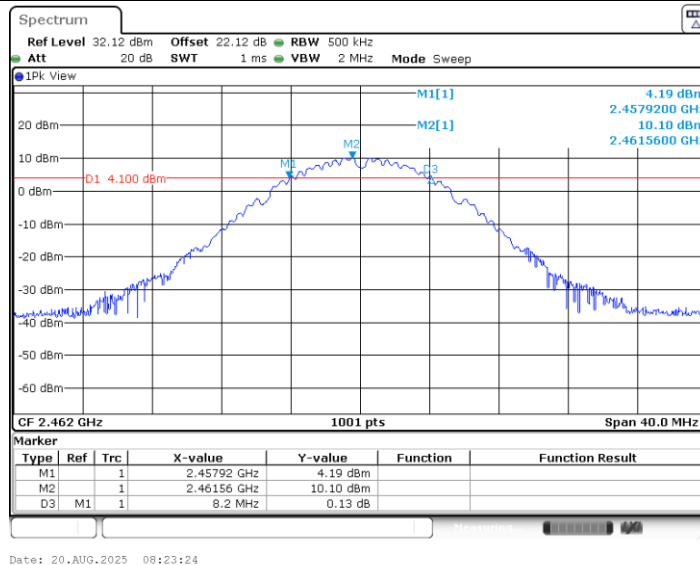




11B-CDD_Ant6_2462

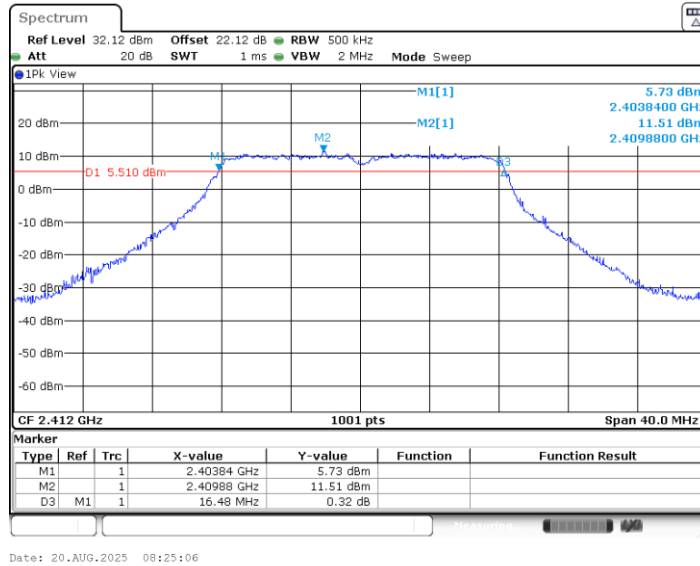


11B-CDD_Ant7_2462

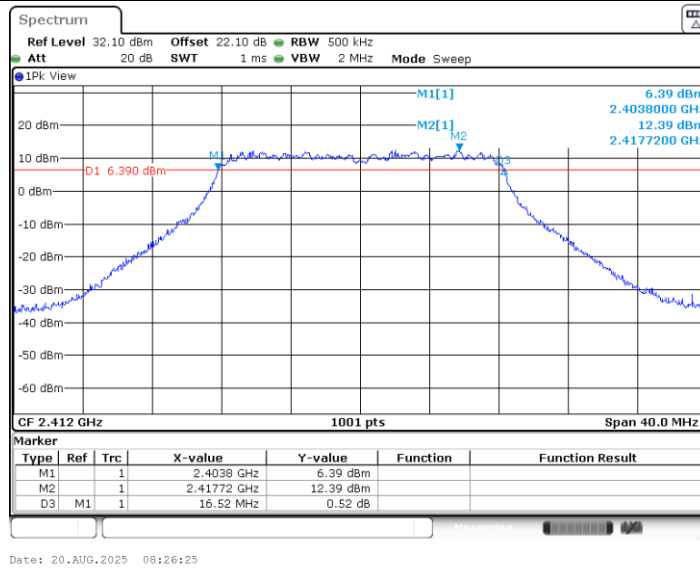




11G-CDD_Ant6_2412

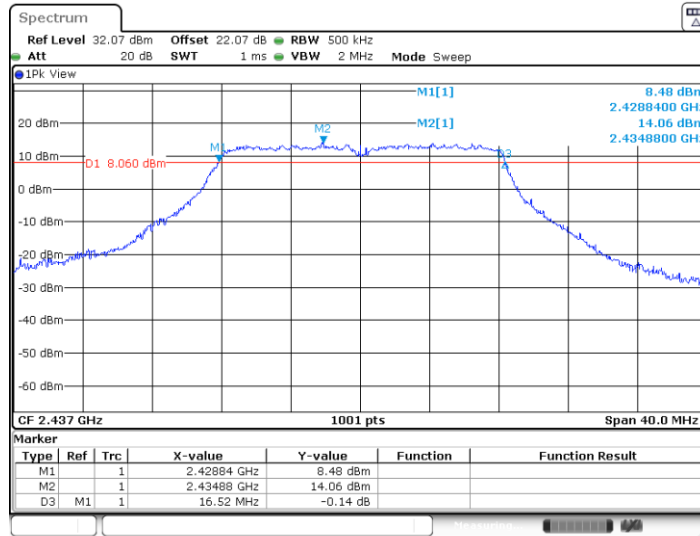


11G-CDD_Ant7_2412

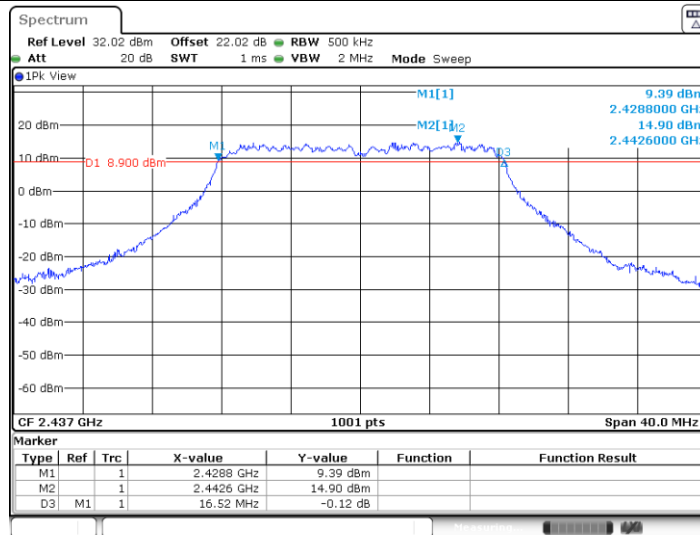




11G-CDD_Ant6_2437

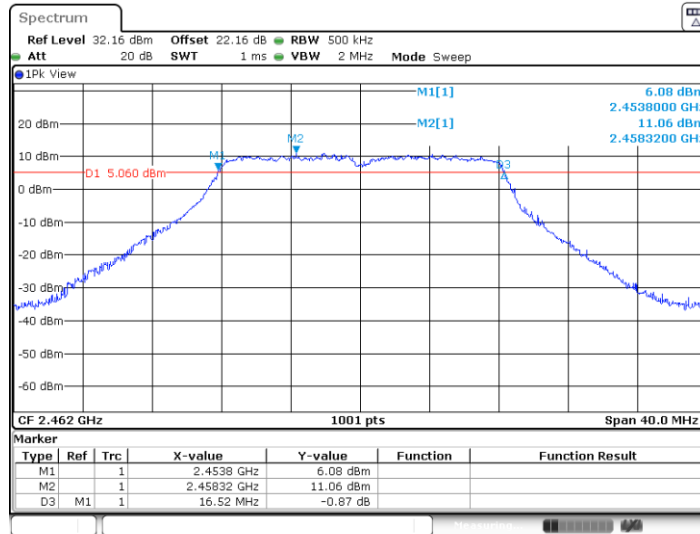


11G-CDD_Ant7_2437



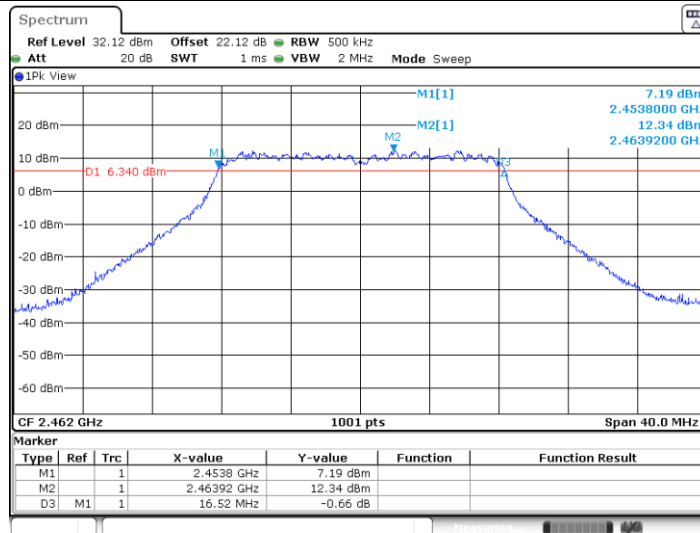


11G-CDD_Ant6_2462



Date: 20.AUG.2025 08:35:11

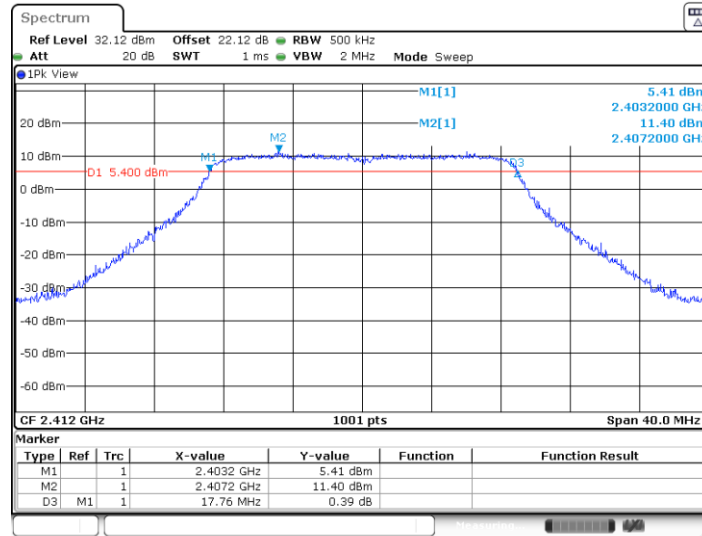
11G-CDD_Ant7_2462



Date: 20.AUG.2025 08:36:30

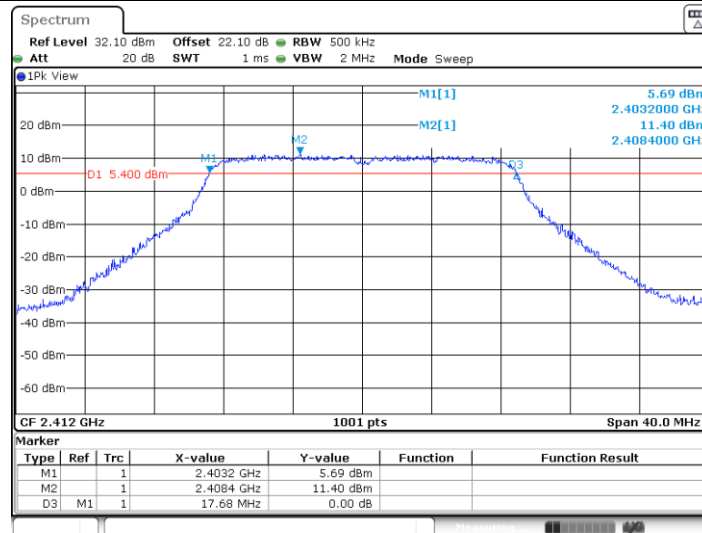


11AC20MIMO_Ant6_2412



Date: 20.AUG.2025 08:59:28

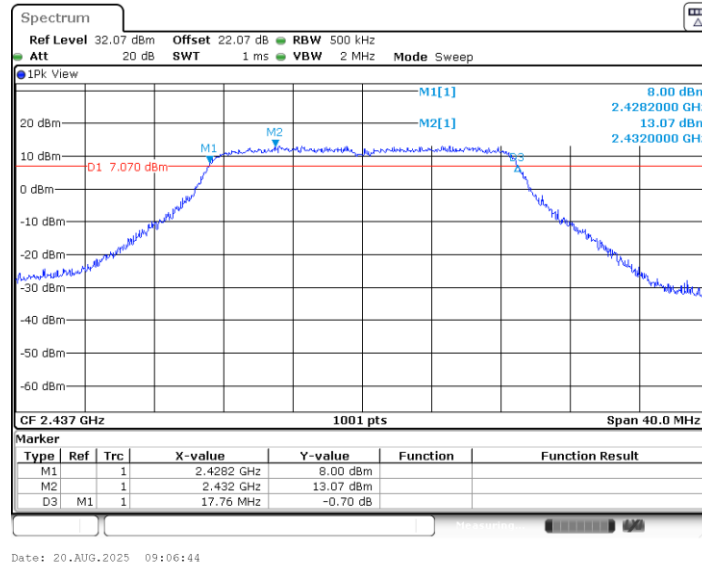
11AC20MIMO_Ant7_2412



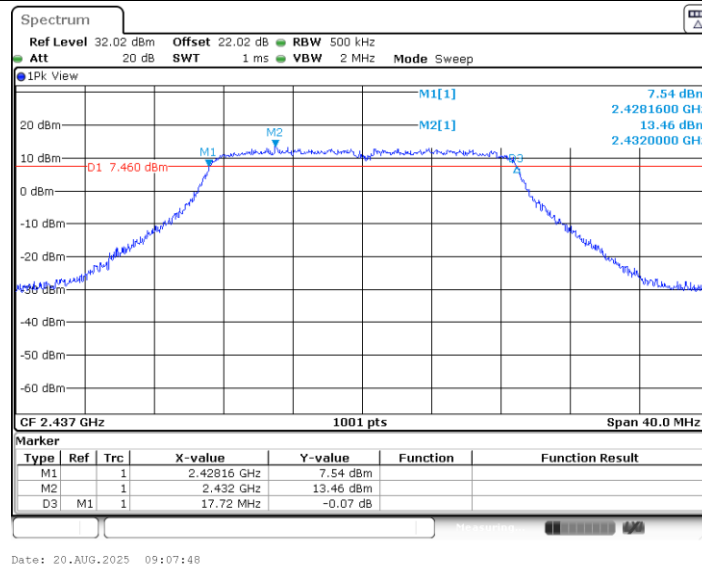
Date: 20.AUG.2025 09:00:48



11AC20MIMO_Ant6_2437

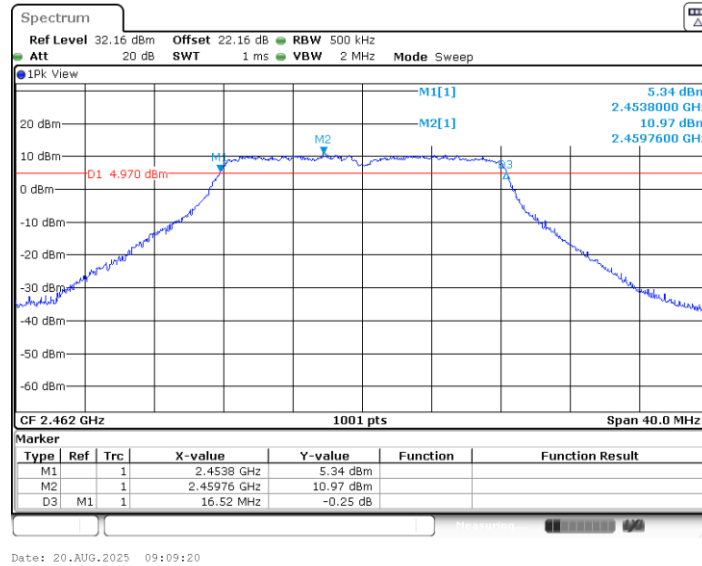


11AC20MIMO_Ant7_2437

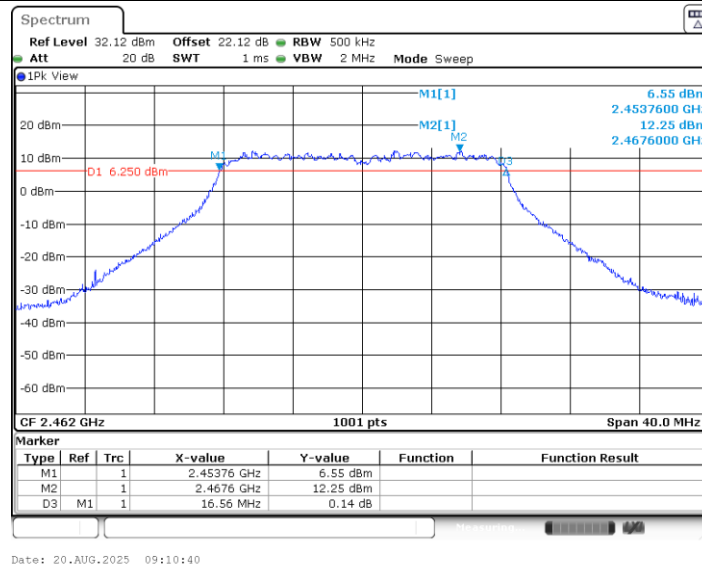




11AC20MIMO_Ant6_2462

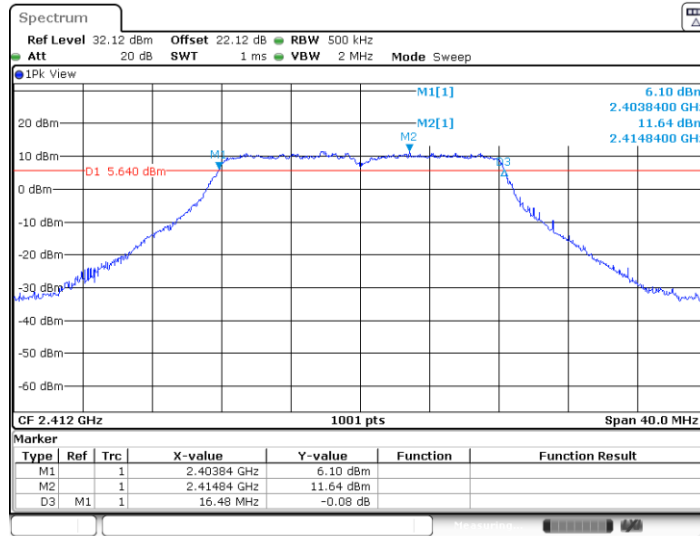


11AC20MIMO_Ant7_2462



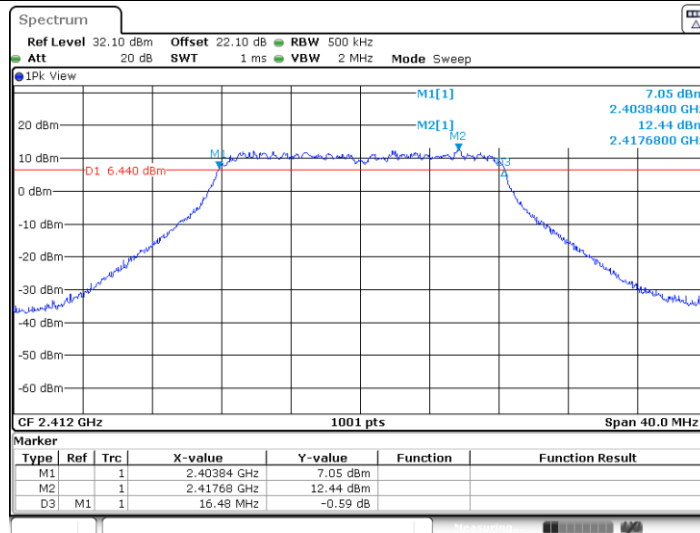


11BE20MIMO_Ant6_2412



Date: 20.AUG.2025 09:12:23

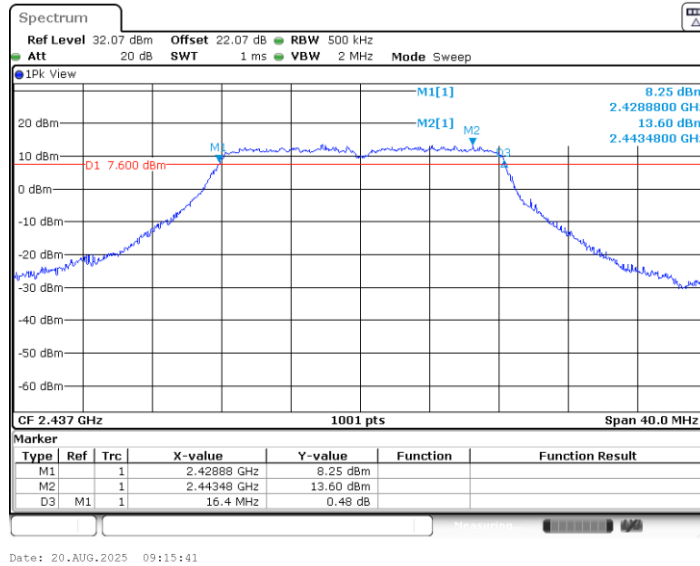
11BE20MIMO_Ant7_2412



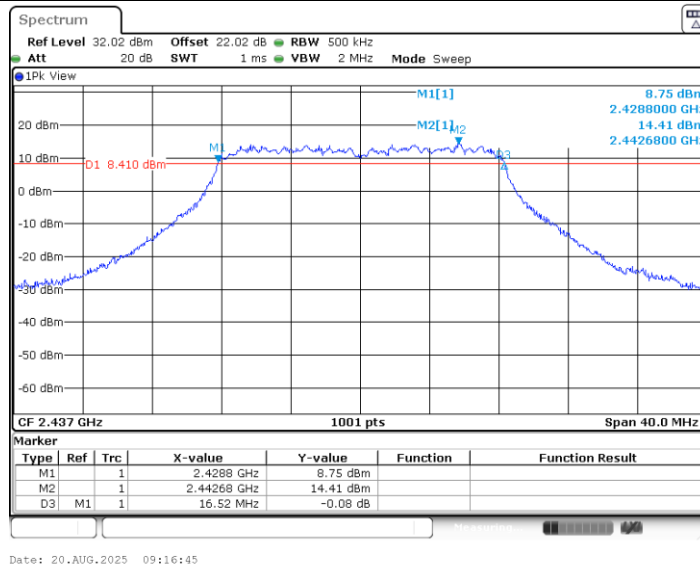
Date: 20.AUG.2025 09:13:43



11BE20MIMO_Ant6_2437

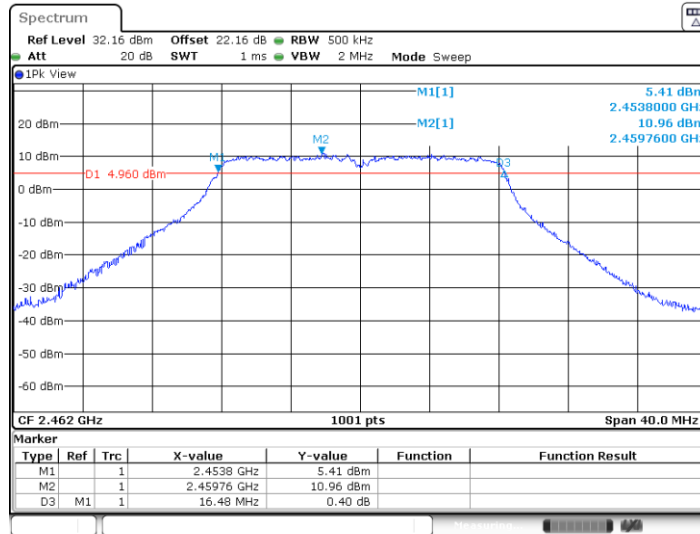


11BE20MIMO_Ant7_2437

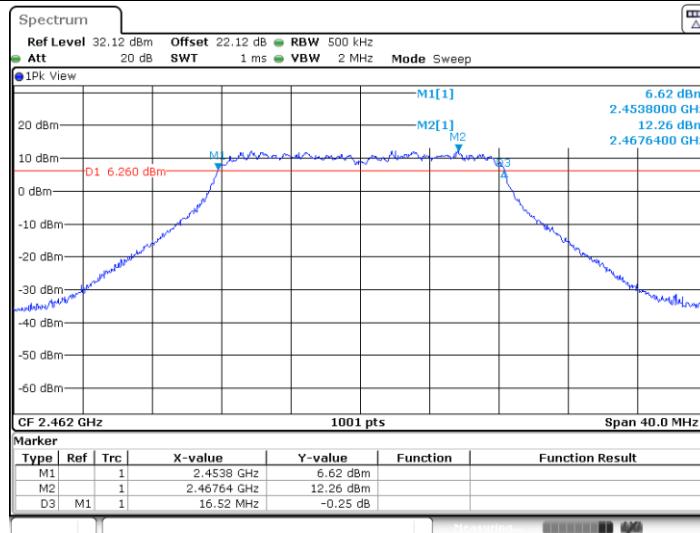




11BE20MIMO_Ant6_2462



11BE20MIMO_Ant7_2462





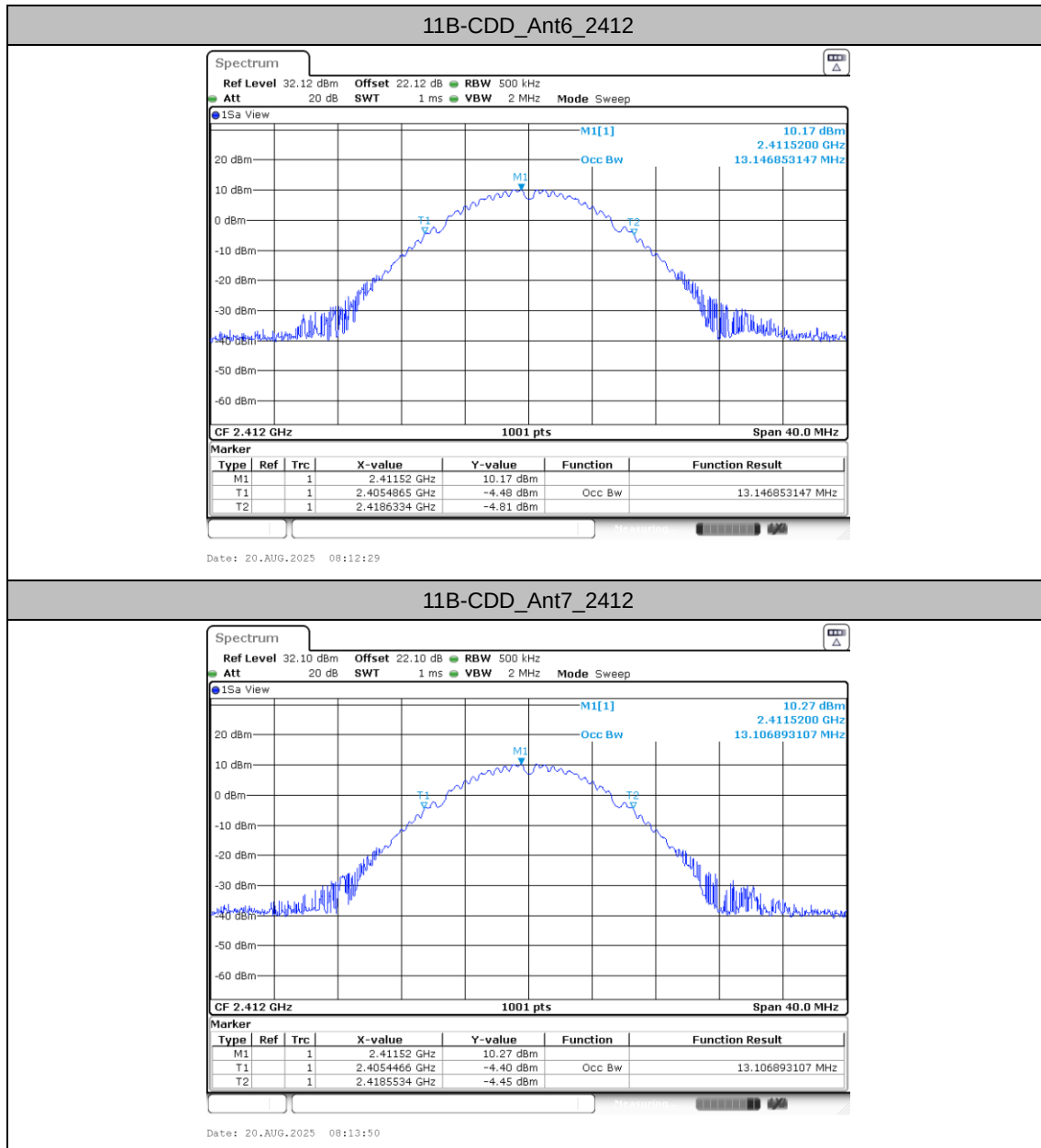
Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant6	2412	13.147	2405.4865	2418.6334	---	---
	Ant7	2412	13.107	2405.4466	2418.5534	---	---
	Ant6	2437	13.027	2430.5664	2443.5934	---	---
	Ant7	2437	13.107	2430.4865	2443.5934	---	---
	Ant6	2462	13.067	2455.4865	2468.5534	---	---
	Ant7	2462	13.107	2455.4466	2468.5534	---	---
11G-CDD	Ant6	2412	17.303	2403.2887	2420.5914	---	---
	Ant7	2412	17.023	2403.4885	2420.5115	---	---
	Ant6	2437	17.303	2428.2887	2445.5914	---	---
	Ant7	2437	17.023	2428.5285	2445.5514	---	---
	Ant6	2462	17.263	2453.2887	2470.5514	---	---
	Ant7	2462	17.103	2453.4086	2470.5115	---	---
11AC20MIMO	Ant6	2412	18.422	2402.8092	2421.2308	---	---
	Ant7	2412	18.222	2402.9291	2421.1508	---	---
	Ant6	2437	18.462	2427.7692	2446.2308	---	---
	Ant7	2437	18.222	2427.8891	2446.1109	---	---
	Ant6	2462	17.303	2453.2488	2470.5514	---	---
	Ant7	2462	17.063	2453.4486	2470.5115	---	---
11BE20MIMO	Ant6	2412	17.263	2403.3287	2420.5914	---	---
	Ant7	2412	17.063	2403.4885	2420.5514	---	---
	Ant6	2437	17.303	2428.3287	2445.6314	---	---
	Ant7	2437	17.023	2428.5285	2445.5514	---	---
	Ant6	2462	17.303	2453.2488	2470.5514	---	---
	Ant7	2462	17.023	2453.4885	2470.5115	---	---

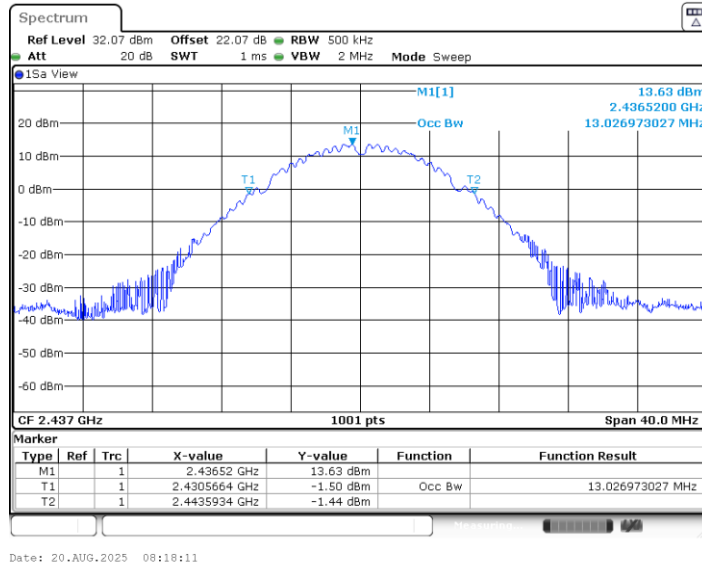


Test Graphs

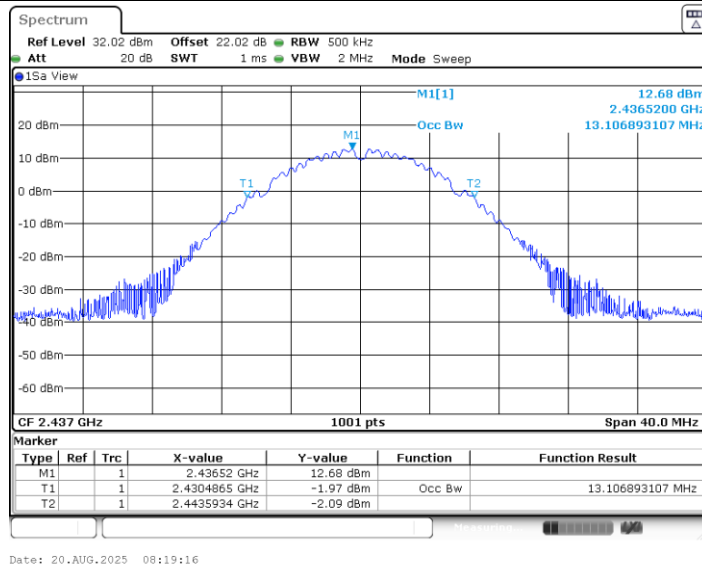




11B-CDD_Ant6_2437

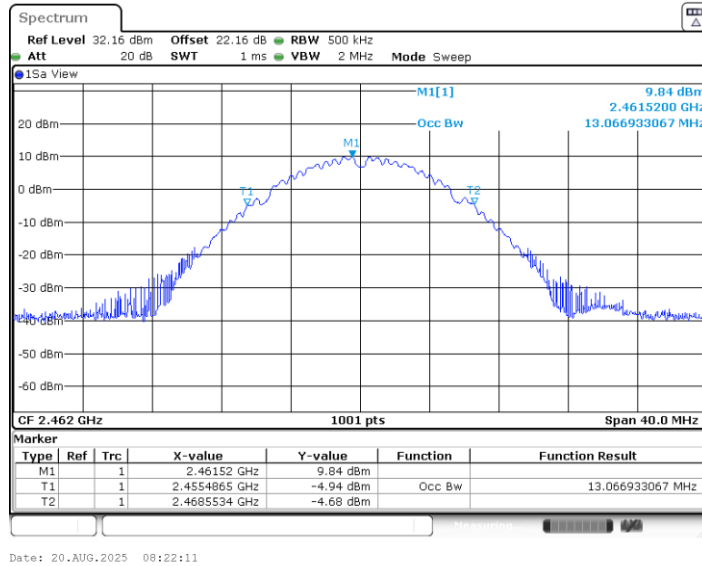


11B-CDD_Ant7_2437

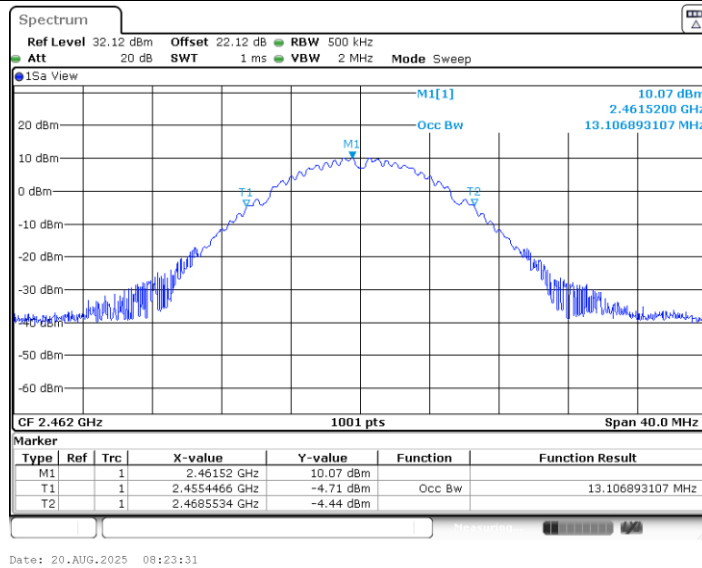




11B-CDD_Ant6_2462

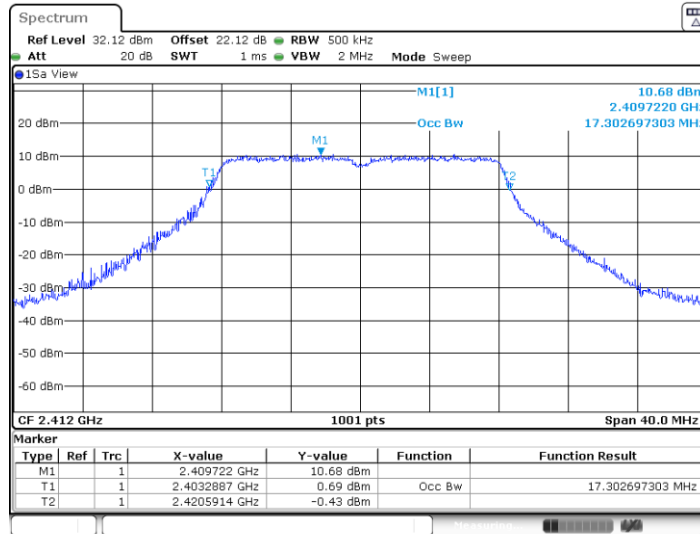


11B-CDD_Ant7_2462



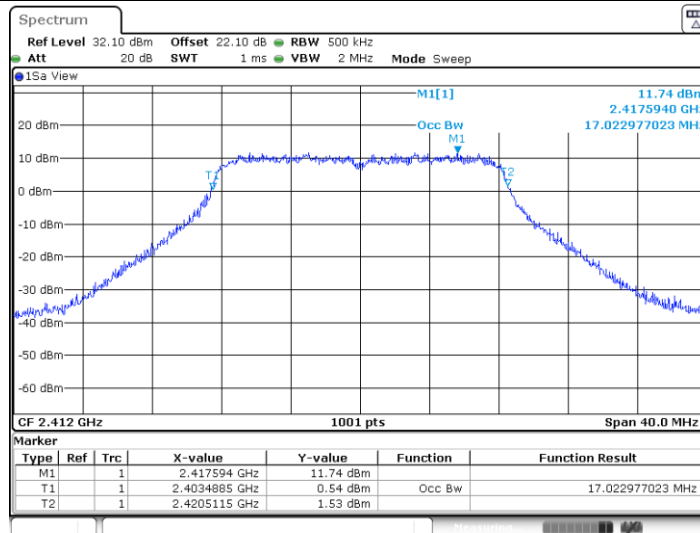


11G-CDD_Ant6_2412



Date: 20.AUG.2025 08:25:13

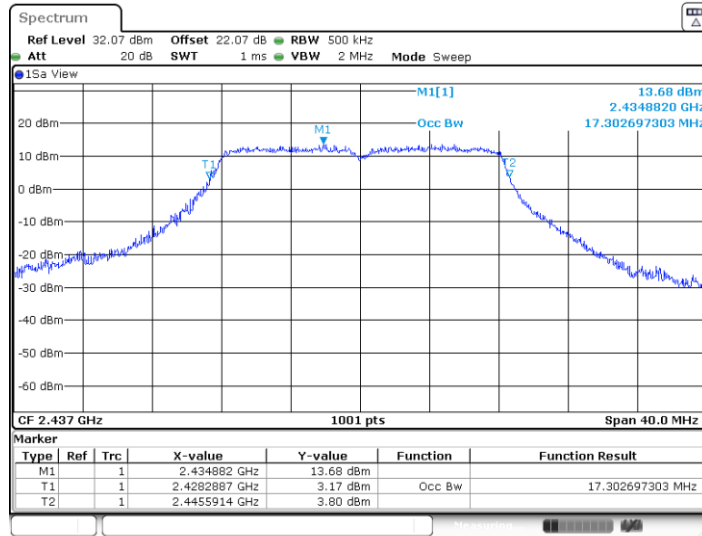
11G-CDD_Ant7_2412



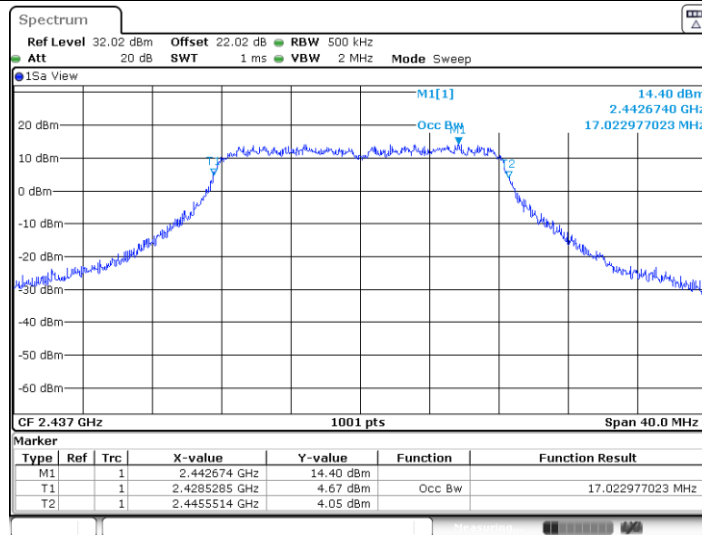
Date: 20.AUG.2025 08:26:32



11G-CDD_Ant6_2437

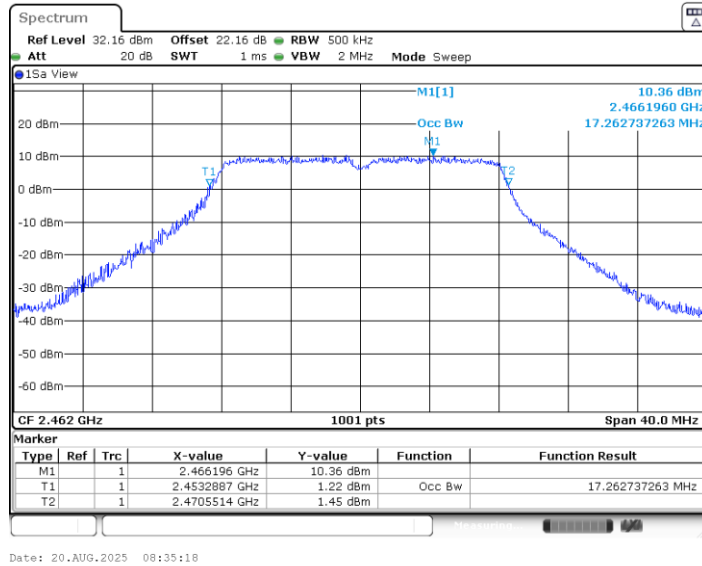


11G-CDD_Ant7_2437

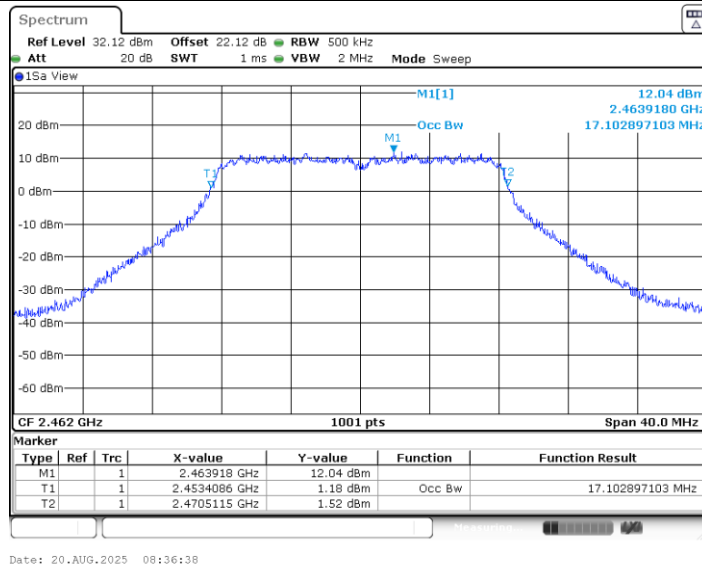




11G-CDD_Ant6_2462

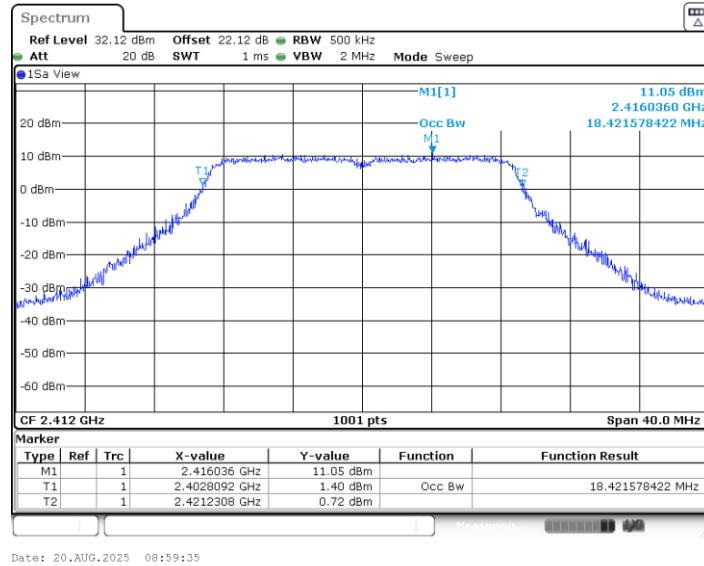


11G-CDD_Ant7_2462

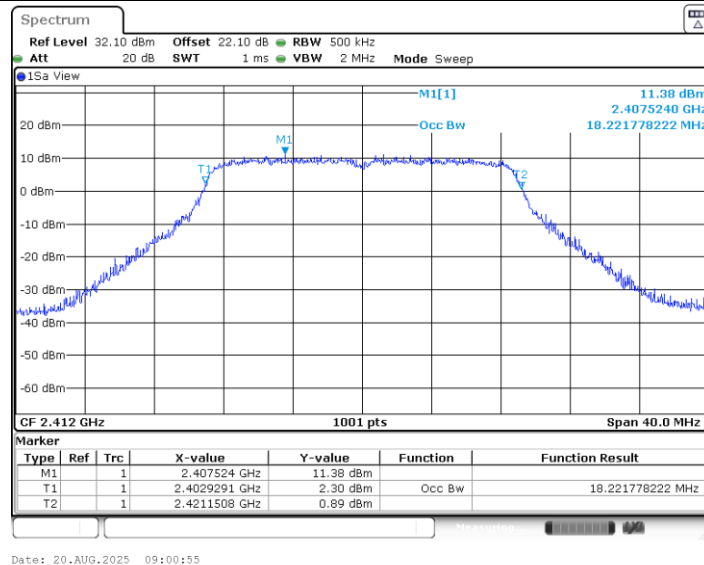




11AC20MIMO_Ant6_2412

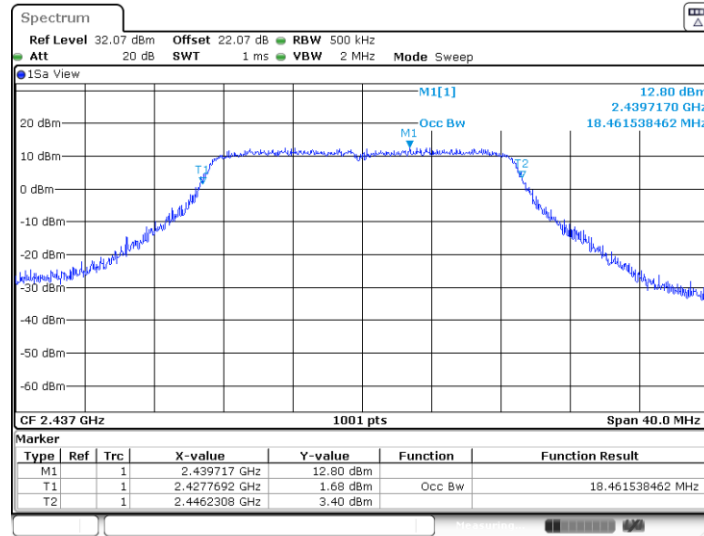


11AC20MIMO_Ant7_2412

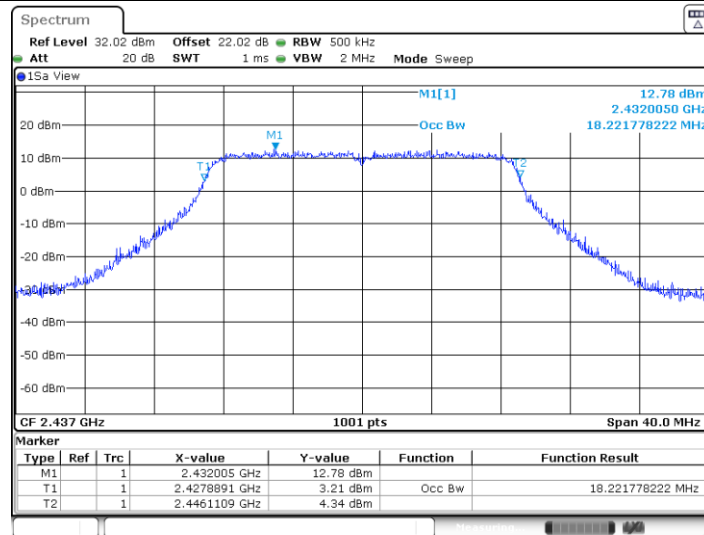




11AC20MIMO_Ant6_2437

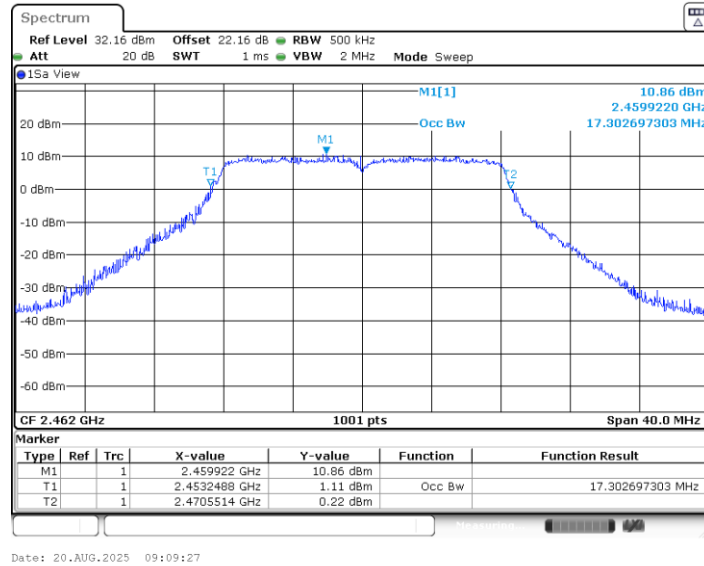


11AC20MIMO_Ant7_2437

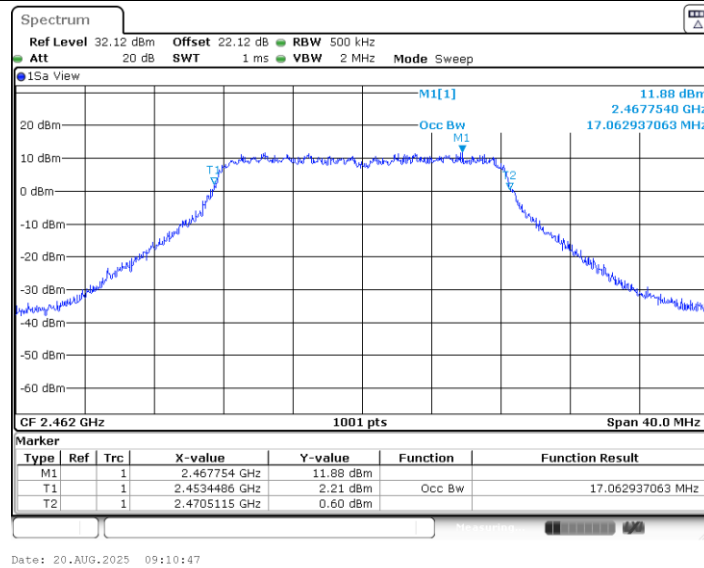




11AC20MIMO_Ant6_2462

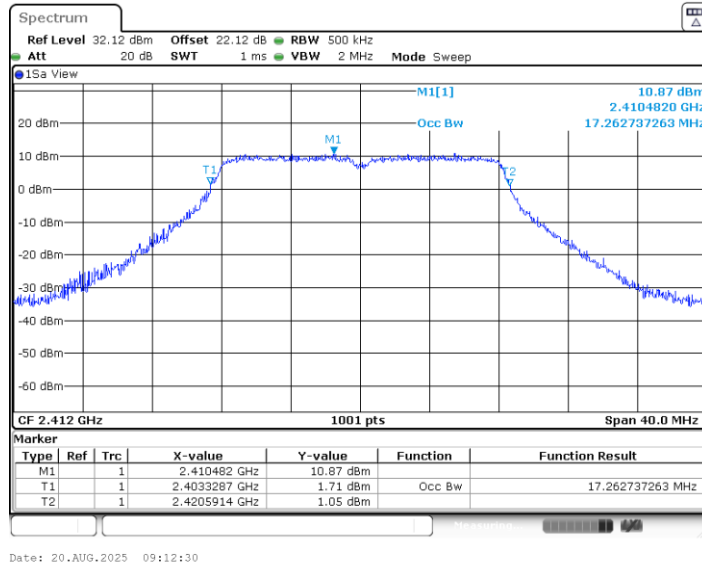


11AC20MIMO_Ant7_2462

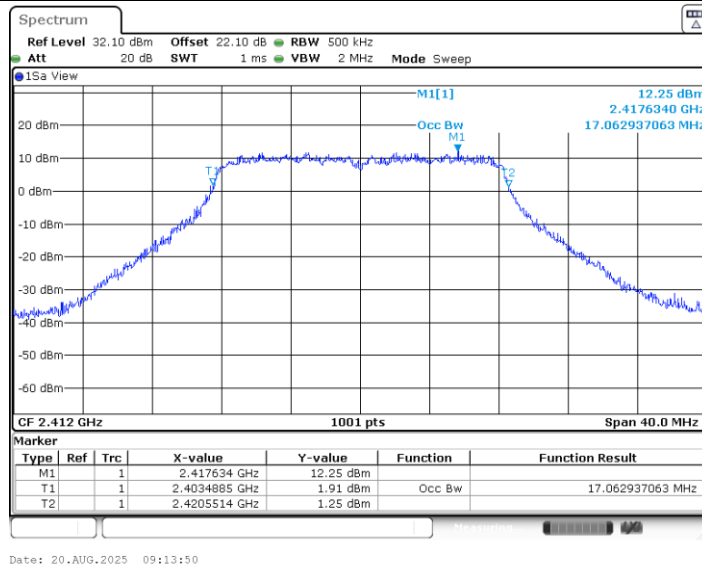




11BE20MIMO_Ant6_2412

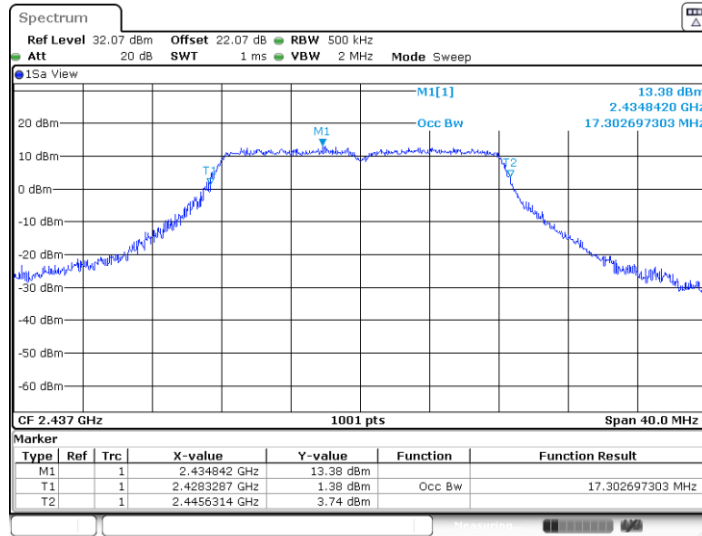


11BE20MIMO_Ant7_2412

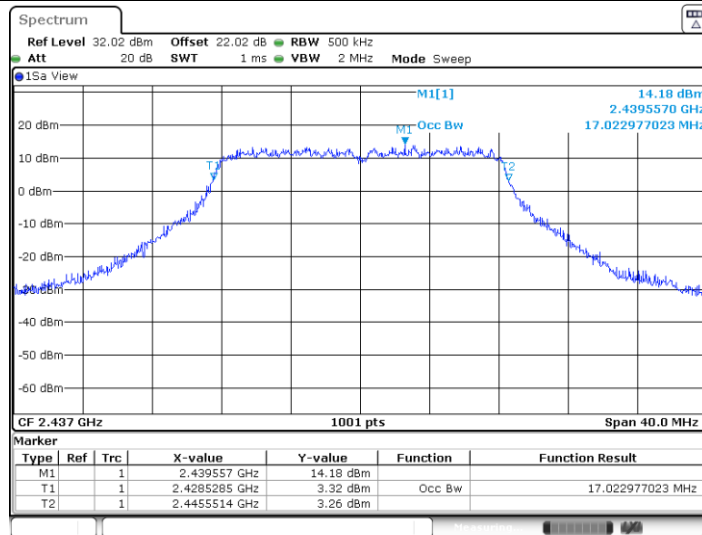




11BE20MIMO_Ant6_2437

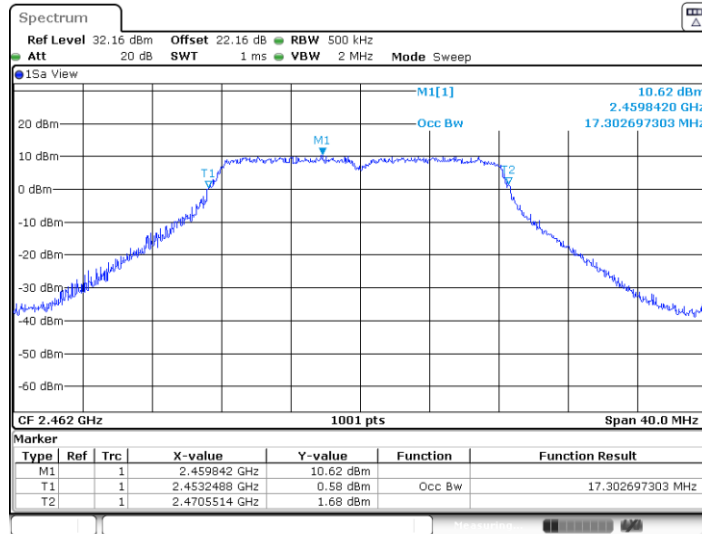


11BE20MIMO_Ant7_2437

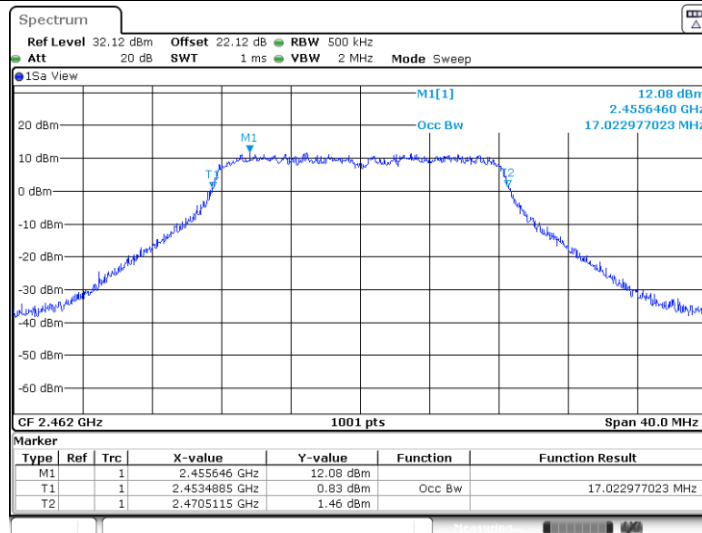




11BE20MIMO_Ant6_2462



11BE20MIMO_Ant7_2462





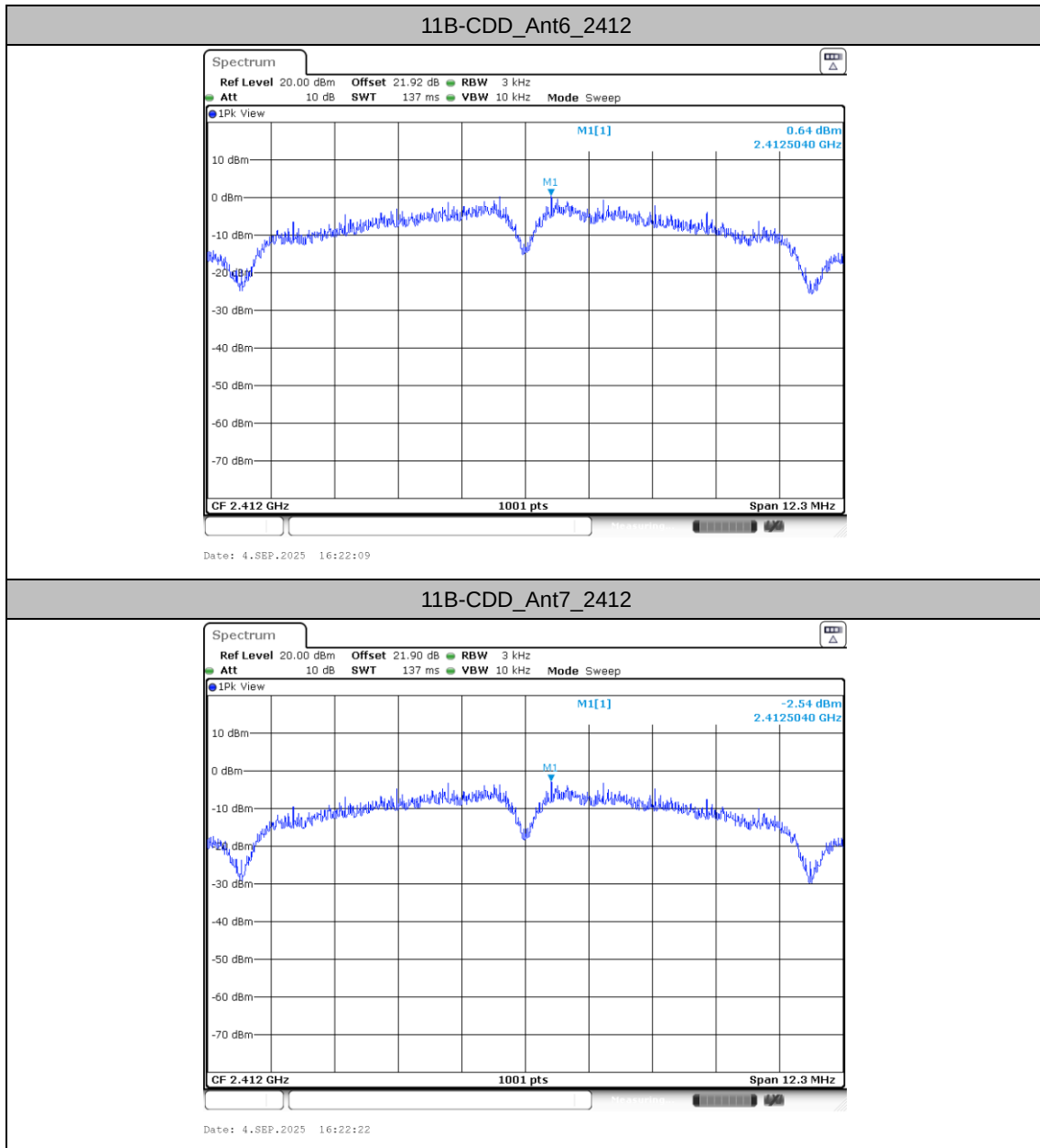
Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B-CDD	Ant6	2412	0.64	≤8.00	PASS
	Ant7	2412	-2.54	≤8.00	PASS
	total	2412	2.35	≤8.00	PASS
	Ant6	2437	0.95	≤8.00	PASS
	Ant7	2437	-1.04	≤8.00	PASS
	total	2437	3.08	≤8.00	PASS
	Ant6	2462	1.8	≤8.00	PASS
	Ant7	2462	0.98	≤8.00	PASS
	total	2462	4.42	≤8.00	PASS
11G-CDD	Ant6	2412	-7.55	≤8.00	PASS
	Ant7	2412	-9.75	≤8.00	PASS
	total	2412	-5.50	≤8.00	PASS
	Ant6	2437	-6.22	≤8.00	PASS
	Ant7	2437	-6.69	≤8.00	PASS
	total	2437	-3.44	≤8.00	PASS
	Ant6	2462	-8.94	≤8.00	PASS
	Ant7	2462	-9.05	≤8.00	PASS
	total	2462	-5.98	≤8.00	PASS
11AC20MIMO	Ant6	2412	-8.22	≤8.00	PASS
	Ant7	2412	-8.34	≤8.00	PASS
	total	2412	-5.27	≤8.00	PASS
	Ant6	2437	-6.38	≤8.00	PASS
	Ant7	2437	-6.72	≤8.00	PASS
	total	2437	-3.54	≤8.00	PASS
	Ant6	2462	-8.98	≤8.00	PASS
	Ant7	2462	-9.62	≤8.00	PASS
	total	2462	-6.28	≤8.00	PASS
11BE20MIMO	Ant6	2412	-8.42	≤8.00	PASS
	Ant7	2412	-8.21	≤8.00	PASS
	total	2412	-5.30	≤8.00	PASS
	Ant6	2437	-6.7	≤8.00	PASS
	Ant7	2437	-6.02	≤8.00	PASS
	total	2437	-3.34	≤8.00	PASS
	Ant6	2462	-8.44	≤8.00	PASS
	Ant7	2462	-8.59	≤8.00	PASS
	total	2462	-5.50	≤8.00	PASS

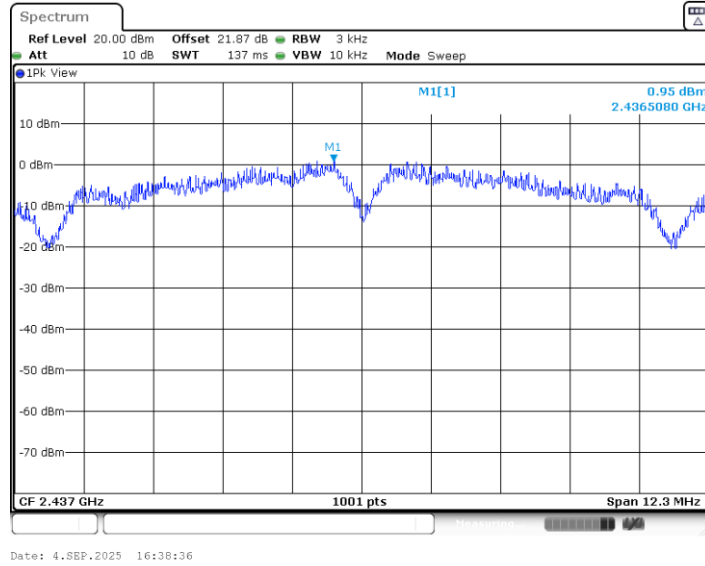


Test Graphs

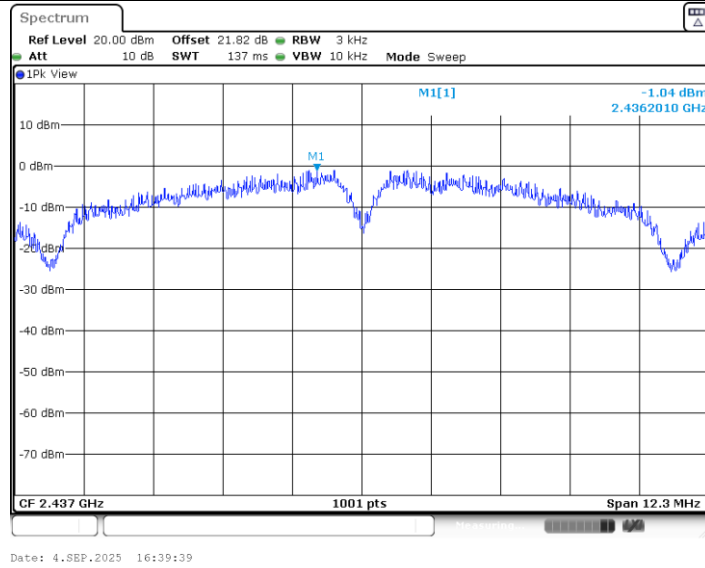




11B-CDD_Ant6_2437

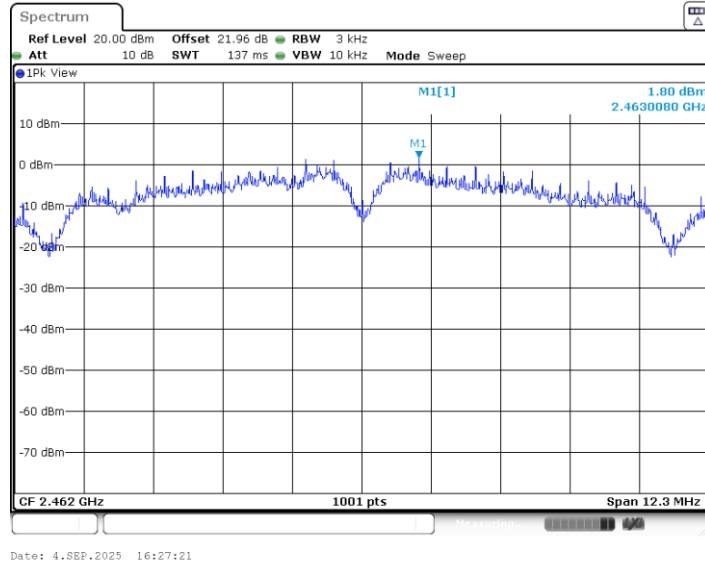


11B-CDD_Ant7_2437

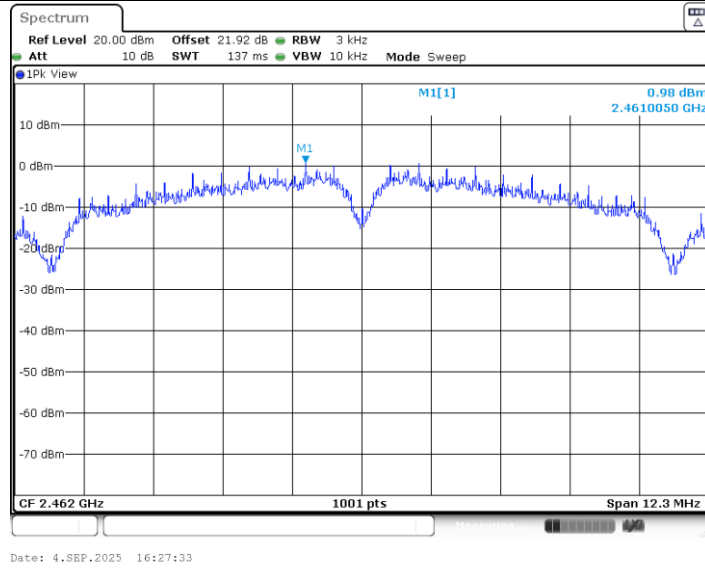




11B-CDD_Ant6_2462

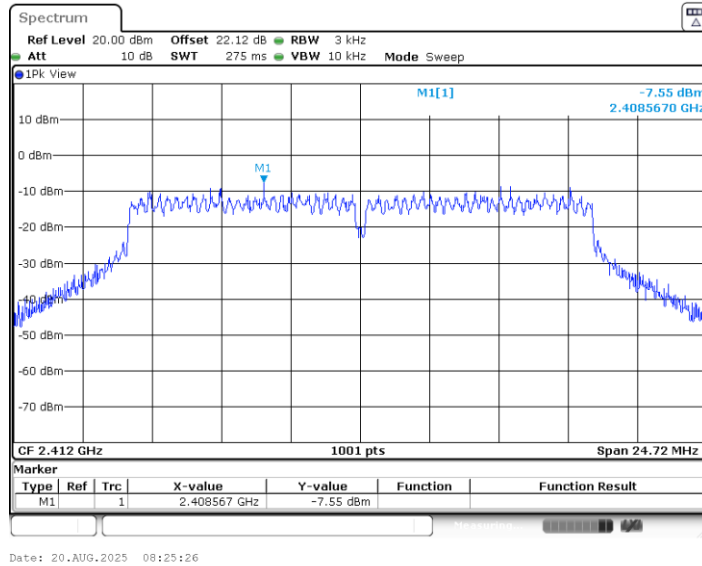


11B-CDD_Ant7_2462

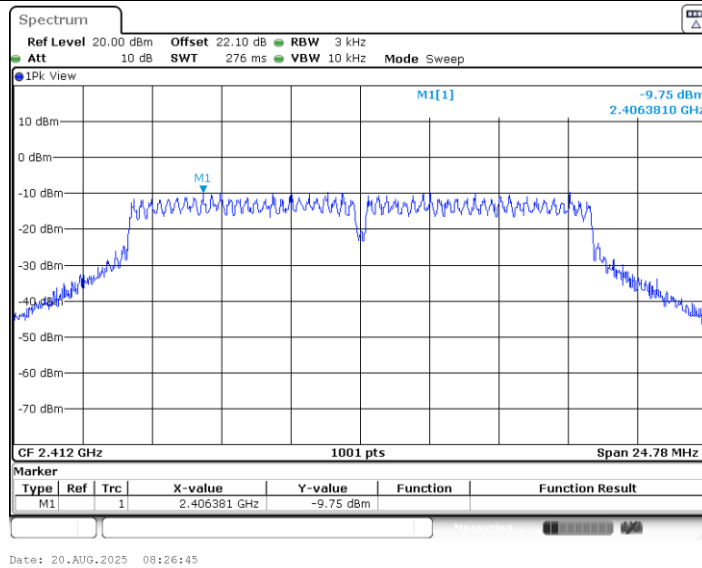




11G-CDD_Ant6_2412

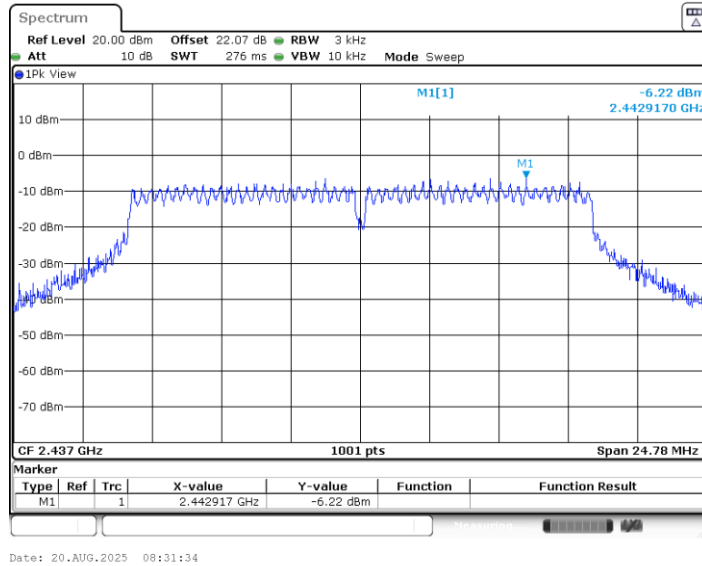


11G-CDD_Ant7_2412

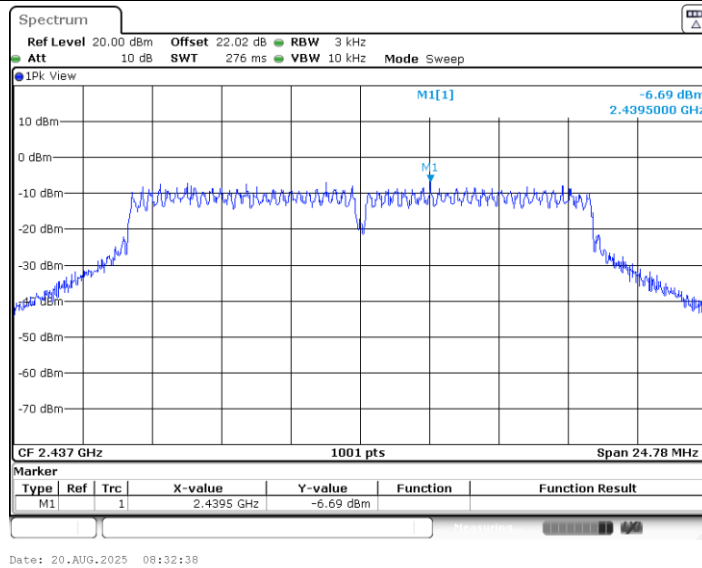




11G-CDD_Ant6_2437

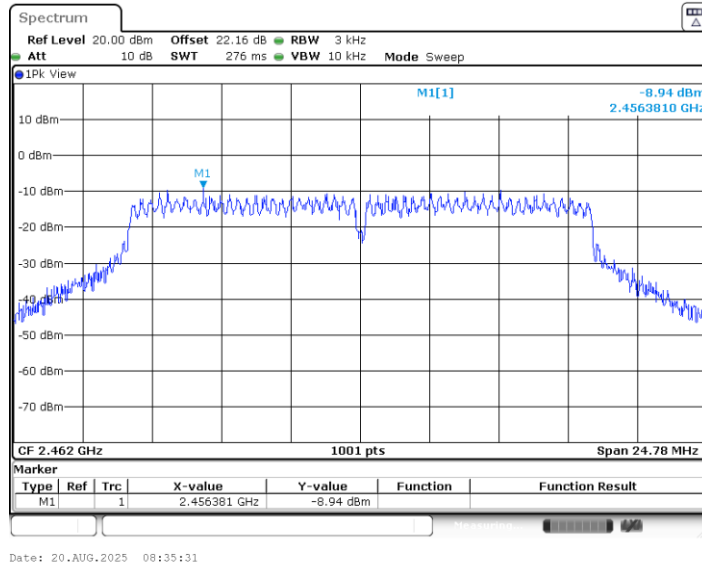


11G-CDD_Ant7_2437

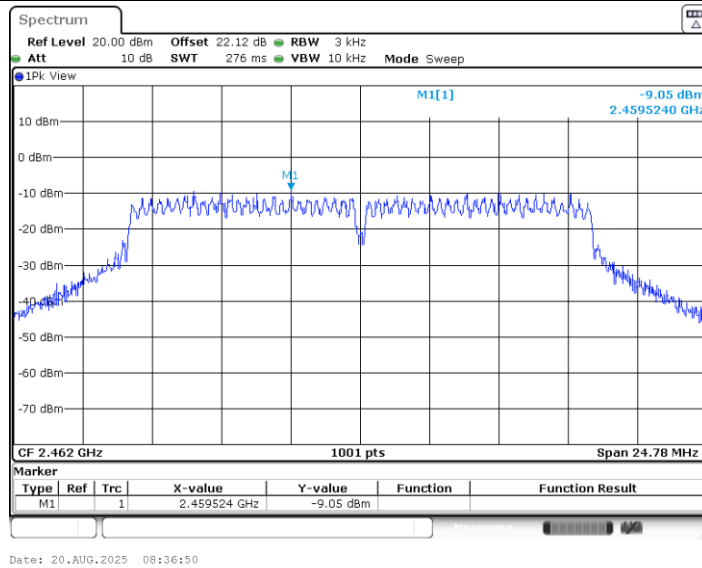




11G-CDD_Ant6_2462

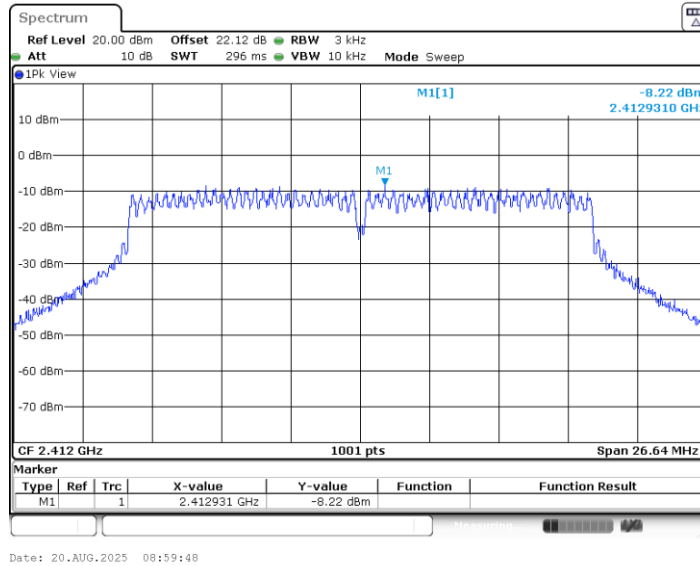


11G-CDD_Ant7_2462

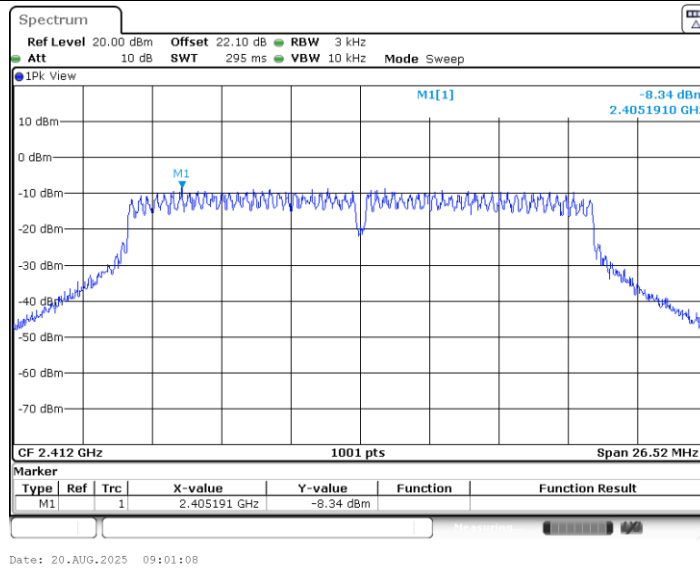




11AC20MIMO_Ant6_2412

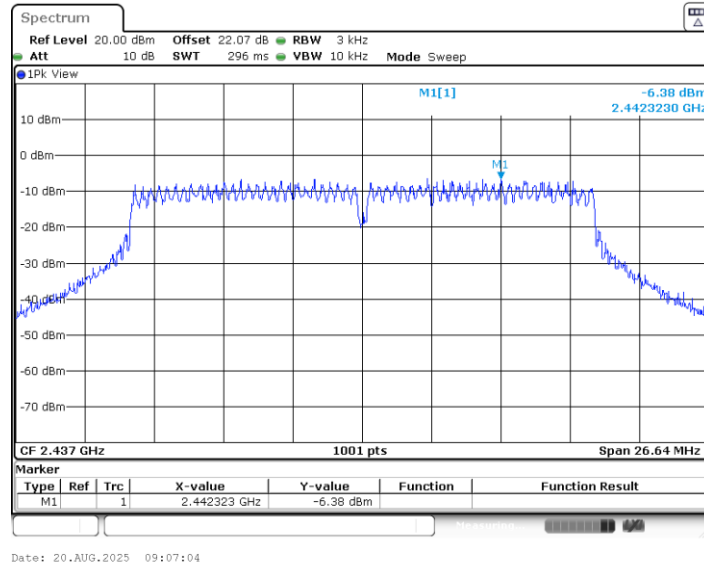


11AC20MIMO_Ant7_2412

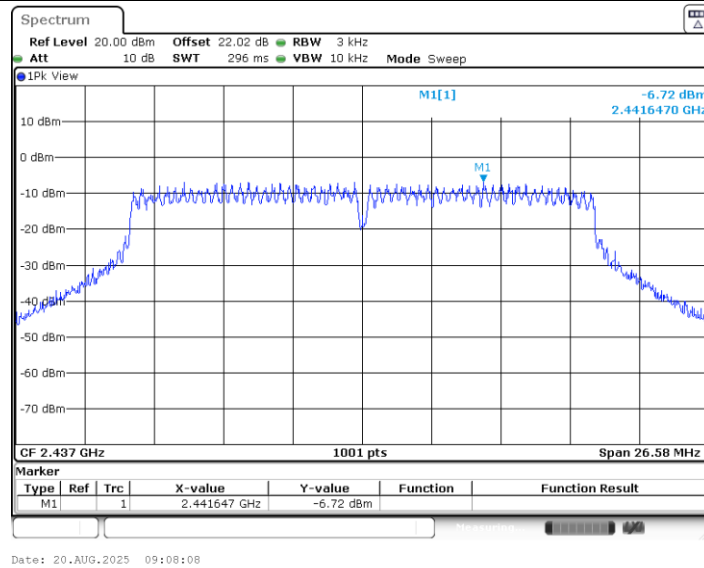




11AC20MIMO_Ant6_2437

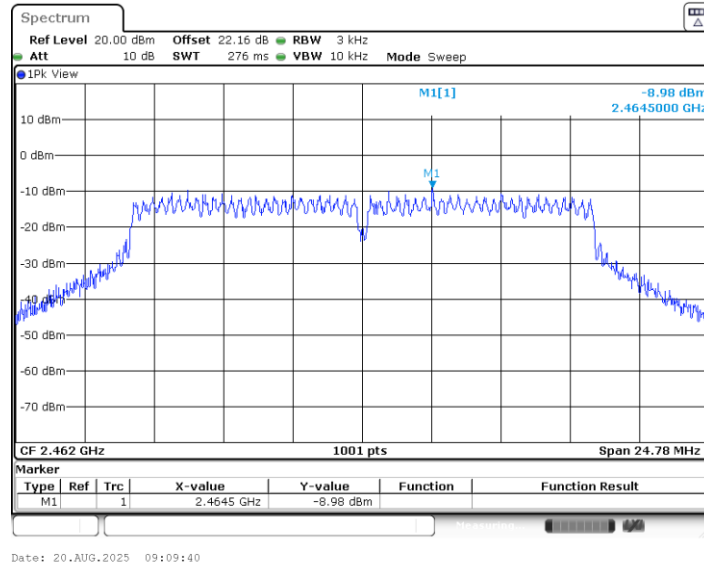


11AC20MIMO_Ant7_2437

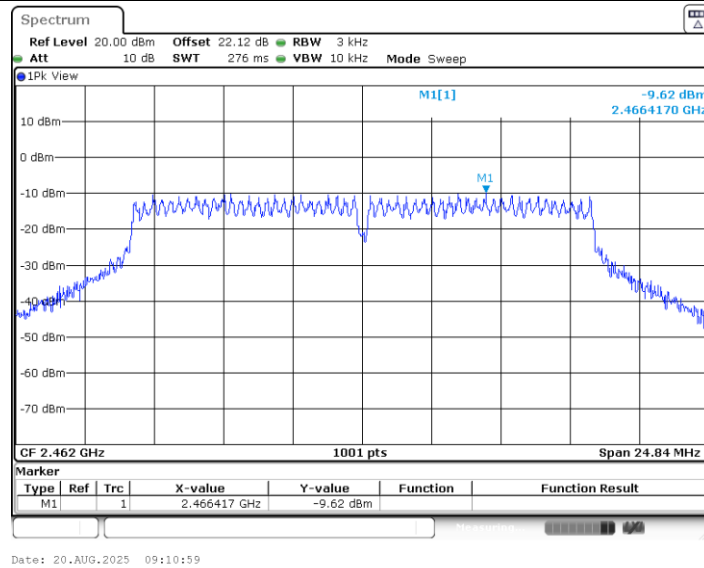




11AC20MIMO_Ant6_2462

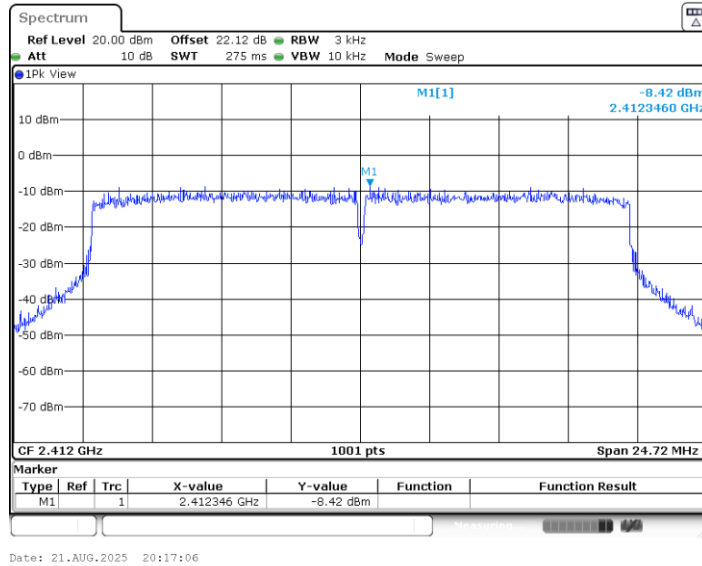


11AC20MIMO_Ant7_2462

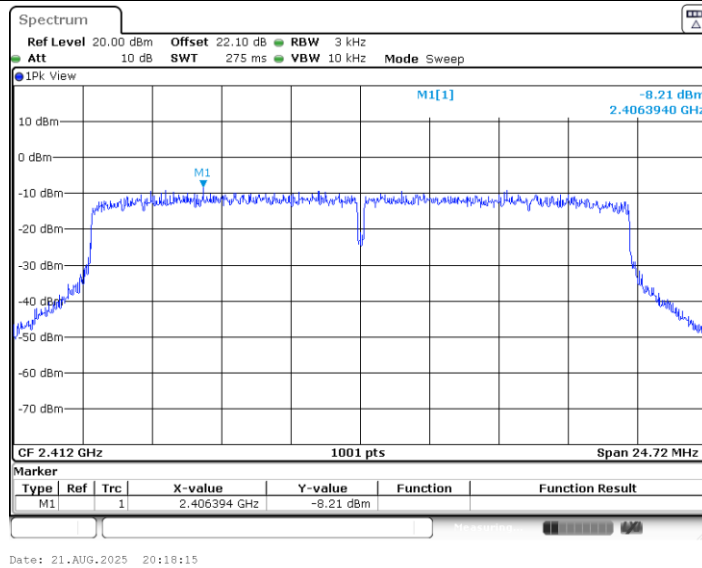




11BE20MIMO_Ant6_2412

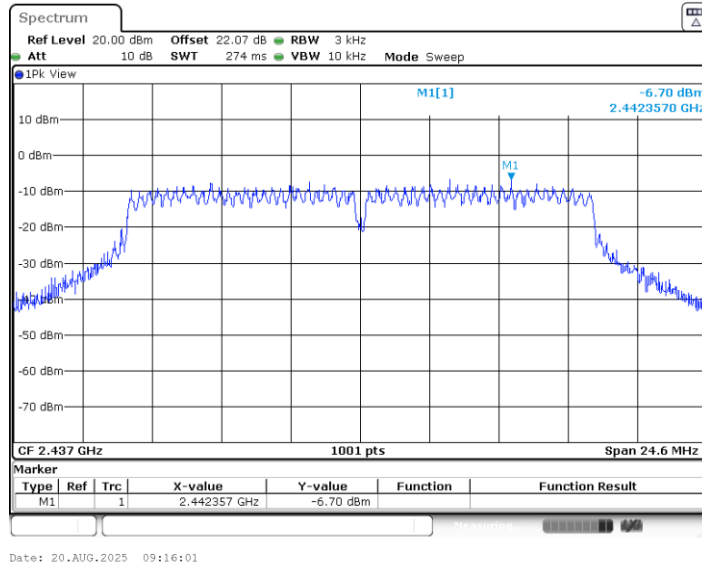


11BE20MIMO_Ant7_2412

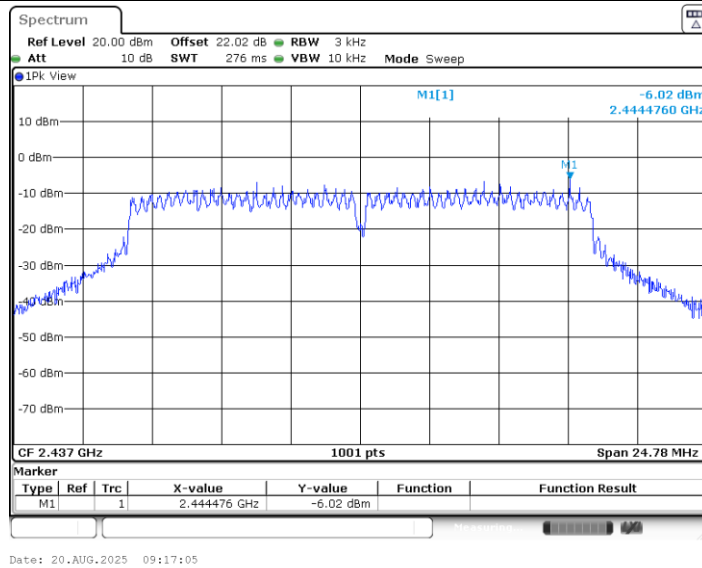




11BE20MIMO_Ant6_2437

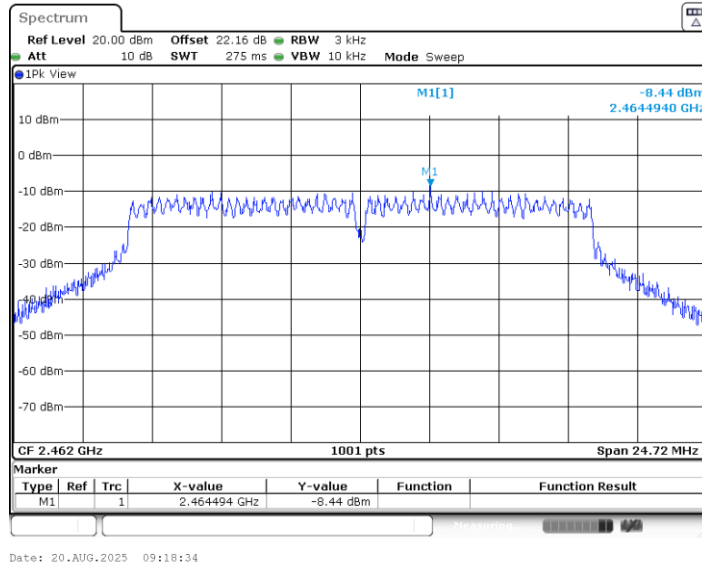


11BE20MIMO_Ant7_2437

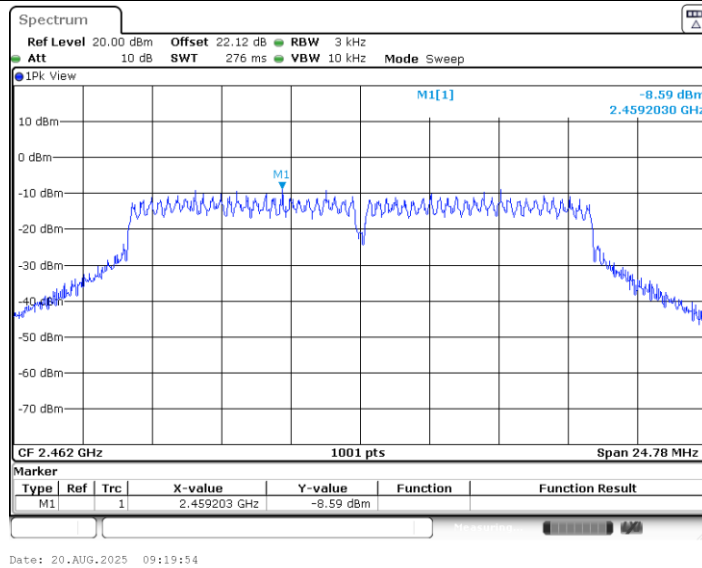




11BE20MIMO_Ant6_2462



11BE20MIMO_Ant7_2462





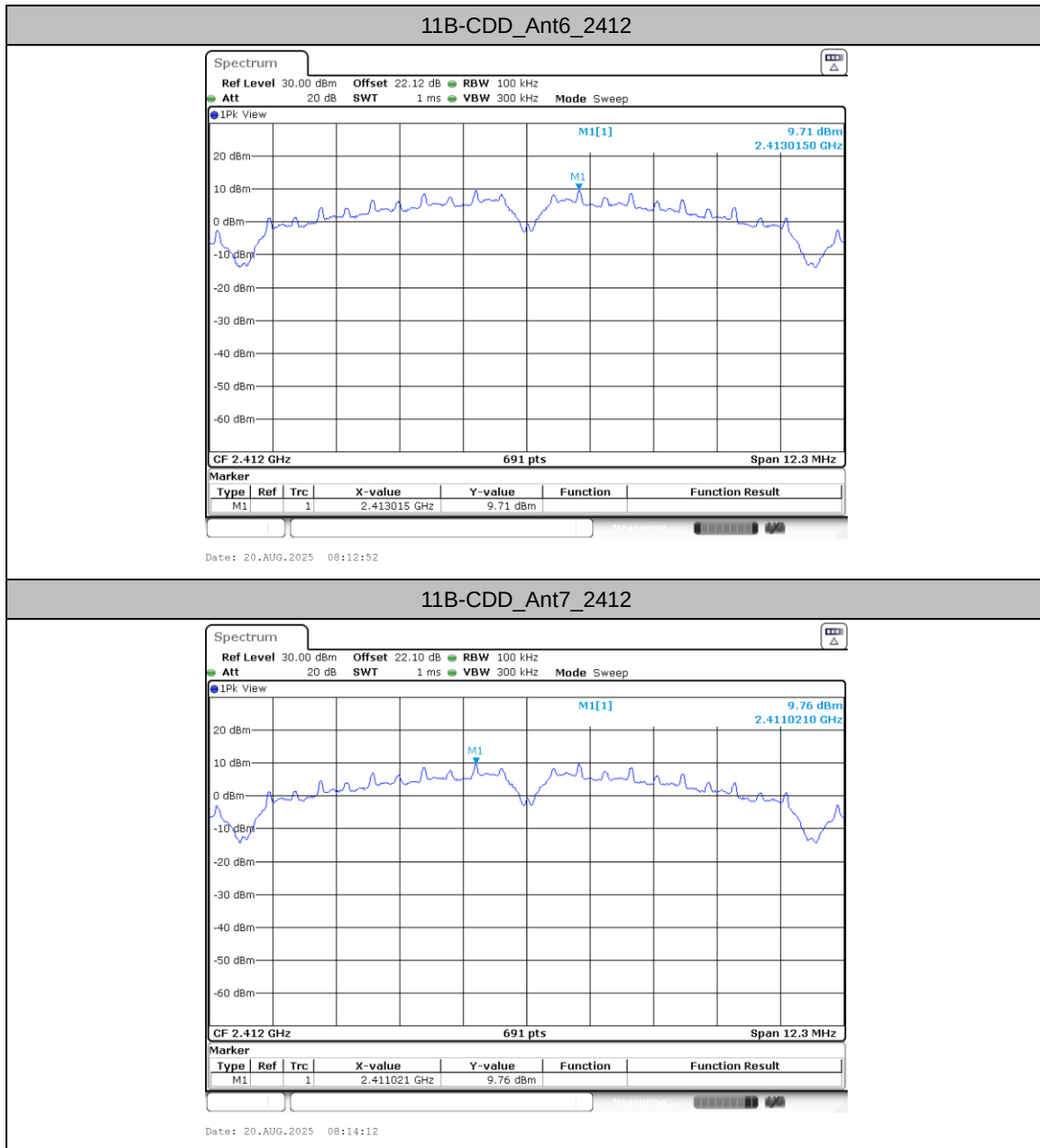
Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm/100KHz]
11B-CDD	Ant6	2412	2413.02	9.71
	Ant7	2412	2411.02	9.76
	Ant6	2437	2436.52	13.53
	Ant7	2437	2436.52	12.51
	Ant6	2462	2461.02	9.35
	Ant7	2462	2461.02	9.53
11G-CDD	Ant6	2412	2405.74	6.34
	Ant7	2412	2417.02	6.87
	Ant6	2437	2440.77	8.28
	Ant7	2437	2441.99	8.94
	Ant6	2462	2464.51	5.65
	Ant7	2462	2455.76	6.14
11AC20MIMO	Ant6	2412	2407.03	6.18
	Ant7	2412	2417.03	6.80
	Ant6	2437	2432.37	5.22
	Ant7	2437	2430.77	7.95
	Ant6	2462	2464.51	5.87
	Ant7	2462	2467.00	6.48
11BE20MIMO	Ant6	2412	2417.01	6.31
	Ant7	2412	2405.78	6.29
	Ant6	2437	2444.51	8.09
	Ant7	2437	2432.02	8.19
	Ant6	2462	2464.54	5.61
	Ant7	2462	2455.76	6.25

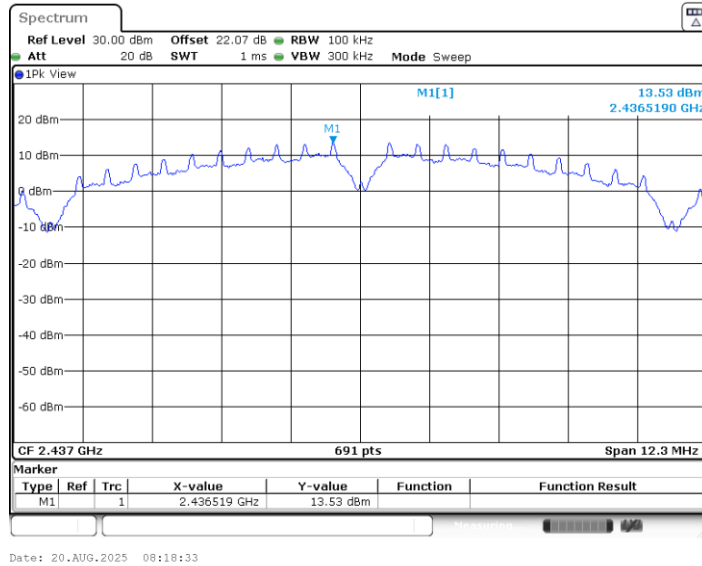


Test Graphs

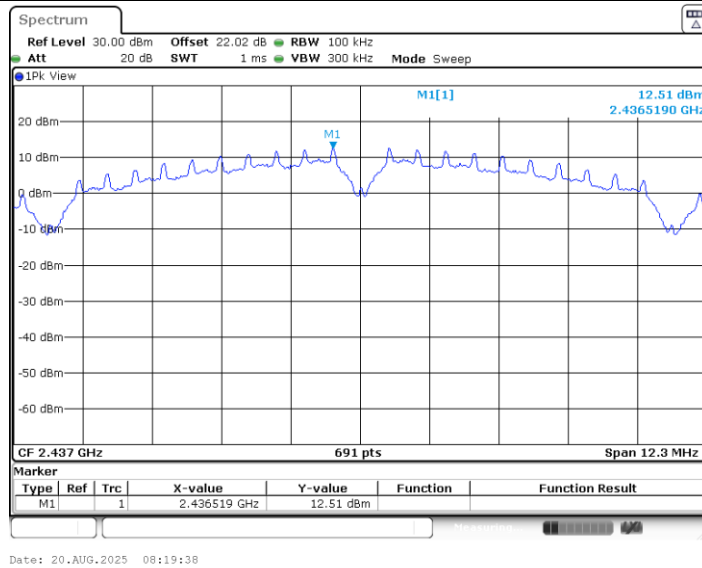




11B-CDD_Ant6_2437

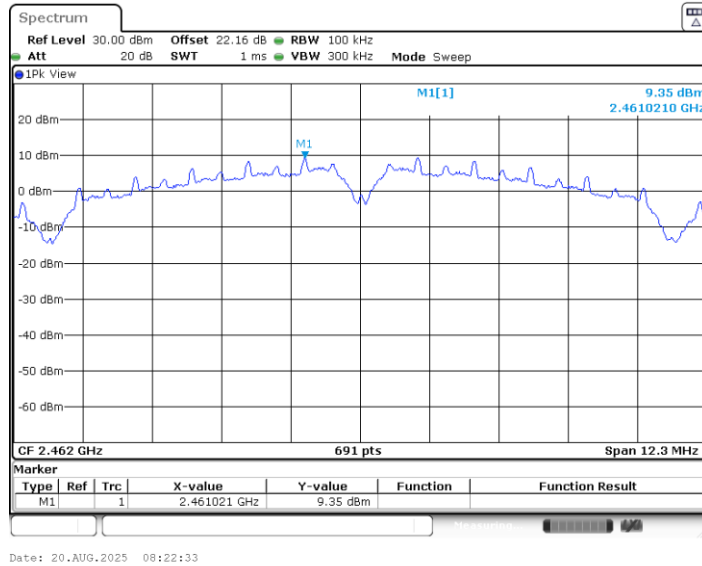


11B-CDD_Ant7_2437

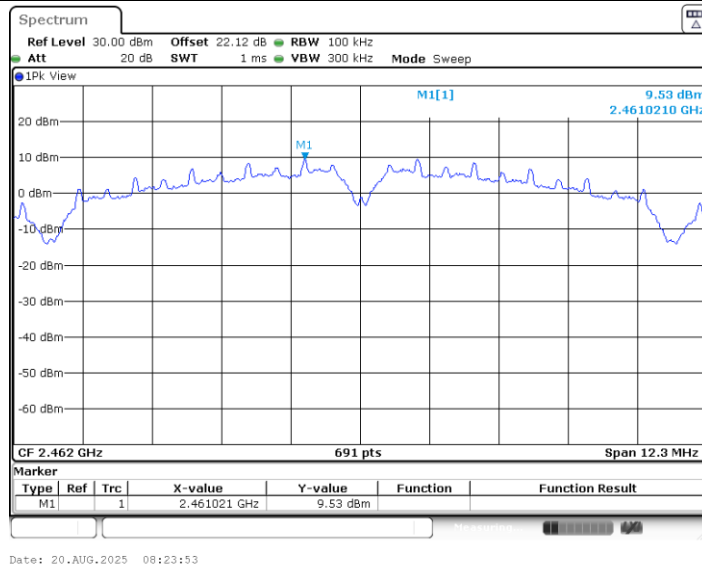




11B-CDD_Ant6_2462

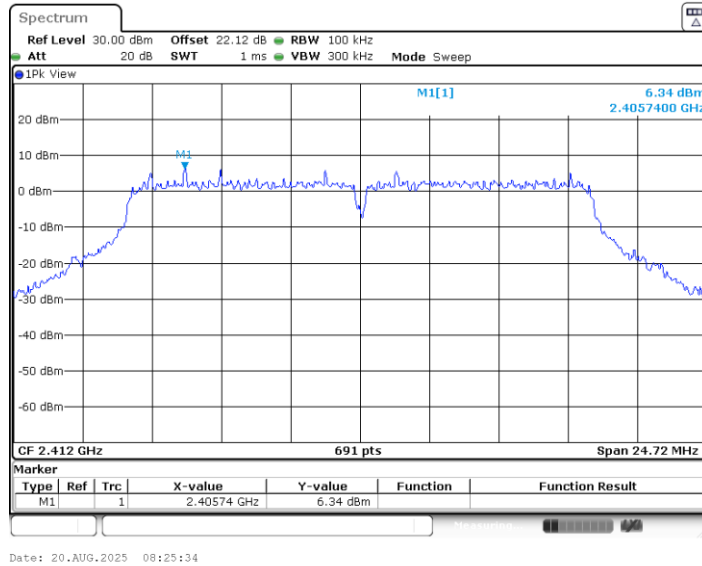


11B-CDD_Ant7_2462





11G-CDD_Ant6_2412



11G-CDD_Ant7_2412

