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TEST REPORT

Report No.: CQASZ20250501057E-01

Applicant: Shenzhen Kean Digital Co., Ltd.

Address of Applicant: Room 1001, Rujun Building, No. 105, Zhongxing Road, Ma'antang Community, Bantian Street, Longgang District, Shenzhen, Guangdong, China 518129

Equipment Under Test (EUT):

Product: Wireless Home Base

Model No.: N54WHF, N54WHP, N54WHQ, N54WHR, N54WHS, N58WHP, N58WHQ, N58WHR, N58WHS, N94WHF, N94WHP, N94WHQ, N94WHR, N94WHS, N98WHF, N98WHP, N98WHQ, N98WHS

Test Model No.: N54WHF

Brand Name: N/A

FCC ID: 2AKL2N54WHF

Standards: 47 CFR Part 15, Subpart C
KDB558074 D01 15.247 Meas Guidance v05r02
ANSI C63.10:2020

Date of Receipt: 2025-05-15

Date of Test: 2025-05-15 to 2025-09-11

Date of Issue: 2025-09-28

Test Result : **PASS***

***In the configuration tested, the EUT complied with the standards specified above**

Tested By:

Lewis Zhou

(Lewis Zhou)

Reviewed By:

Timo Lei

(Timo Lei)

Approved By:

Jack Ai

(Jack Ai)



Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20250501057E-01	Rev.01	Initial report	2025-09-28

1 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15.203	N/A	PASS
AC Power Line Conducted Emission	47 CFR Part 15.207	ANSI C63.10-2020	PASS
Conducted Peak & Average Output Power	47 CFR Part 15.247	ANSI C63.10-2020	PASS
6dB Occupied Bandwidth	47 CFR Part 15.247	ANSI C63.10-2020	PASS
Power Spectral Density	47 CFR Part 15.247	ANSI C63.10-2020	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15.247	ANSI C63.10-2020	PASS
RF Conducted Spurious Emissions	47 CFR Part 15.247	ANSI C63.10-2020	PASS
Radiated Spurious Emissions	47 CFR Part 15.209	ANSI C63.10-2020	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15.205/15.209	ANSI C63.10-2020	PASS

Remark:

The tested sample(s) and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application

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3 General Information

3.1 Client Information

Applicant:	Shenzhen Kean Digital Co., Ltd.
Address of Applicant:	Room 1001, Rujun Building, No. 105, Zhongxing Road, Ma'antang Community, Bantian Street, Longgang District, Shenzhen, Guangdong, China 518129
Manufacturer:	Shenzhen Kean Digital Co., Ltd.
Address of Manufacturer:	Room 1001, Rujun Building, No. 105, Zhongxing Road, Ma'antang Community, Bantian Street, Longgang District, Shenzhen, Guangdong, China 518129
Factory:	Shenzhen Kean Digital Co., Ltd.
Address of Factory:	Room 1001, Rujun Building, No. 105, Zhongxing Road, Ma'antang Community, Bantian Street, Longgang District, Shenzhen, Guangdong, China 518129

3.2 General Description of EUT

Product Name:	Wireless Home Base
Model No.:	N54WHF, N54WHP, N54WHQ, N54WHR, N54WHS, N58WHP, N58WHQ, N58WHR, N58WHS, N94WHF, N94WHP, N94WHQ, N94WHR, N94WHS, N98WHF, N98WHP, N98WHQ, N98WHS
Test Model No.:	N54WHF
Trade Mark:	N/A
Software Version:	V1.0
Hardware Version:	V1.0
Power Supply:	Adapter: Model:CS-0501000 Input:100-240V~0.5A Max.50/60Hz Output:5V $\pm$ 1.0A
RF Model:	SWT6652
EUT Supports Radios application:	2.4GHz: Wi-Fi: 802.11b/g/n(HT20): 2412MHz~2462MHz; 802.11n(HT40): 2422MHz~2452MHz
Simultaneous Transmission	☒ Simultaneous TX is supported and evaluated in this report. ☐ Simultaneous TX is not supported.

3.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels
Channel Separation:	5MHz

Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK)
Transfer Rate:	IEEE for 802.11b: 1Mbps/2Mbps/5.5Mbps/11Mbps IEEE for 802.11g : 6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps IEEE for 802.11n(HT20) : 6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps IEEE for 802.11n(HT40) : 13.5Mbps/27Mbps/40.5Mbps/54Mbps/81Mbps/108Mbps/121.5Mbps/135Mbps
Product Type:	☒ Mobile ☐ Portable ☐ Fix Location
Test Software of EUT:	CMD
Antenna Type:	PCB antenna
Antenna Gain:	Ant1:4.57dBi Ant2:4.57dBi Ant1+Ant2:7.58dBi

Operation Frequency each of channel(802.11b/g/n HT20)							
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		
Operation Frequency each of channel(802.11n HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				

Note:

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:

For 802.11b/g/n (HT20):

Channel	Frequency
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz

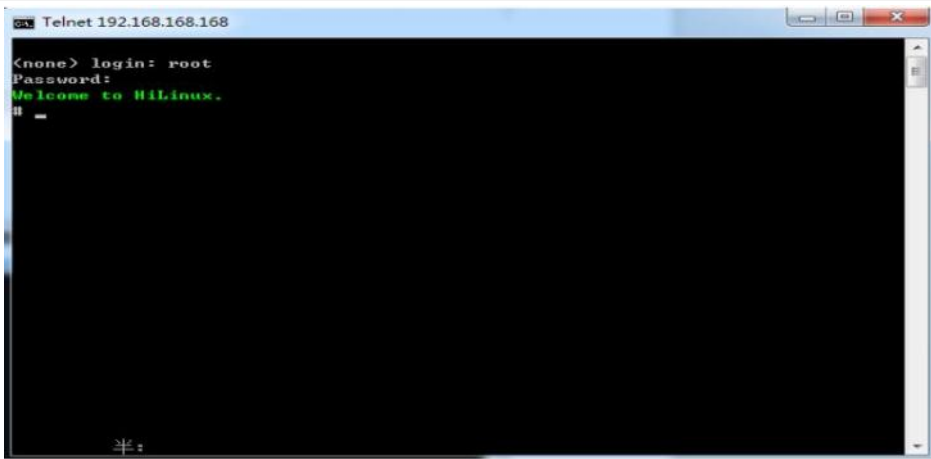
For 802.11n (HT40):

Channel	Frequency
The Lowest channel	2422MHz
The Middle channel	2437MHz
The Highest channel	2452MHz

Note:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.4 Test Environment and Mode

Operating Environment:	
Radiated Emissions:	
Temperature:	25.3 °C
Humidity:	55 % RH
Atmospheric Pressure:	1009 mbar
Conducted Emissions:	
Temperature:	25.6 °C
Humidity:	60 % RH
Atmospheric Pressure:	1009 mbar
Radio conducted item test (RF Conducted test room):	
Temperature:	25.5 °C
Humidity:	52 % RH
Atmospheric Pressure:	1009 mbar
Test mode:	
Transmitting mode:	EUT is set in RF test mode in all supported modulation types, bandwidth and data rate, etc.
EUT Power level:	Class0
Run Software:	
	

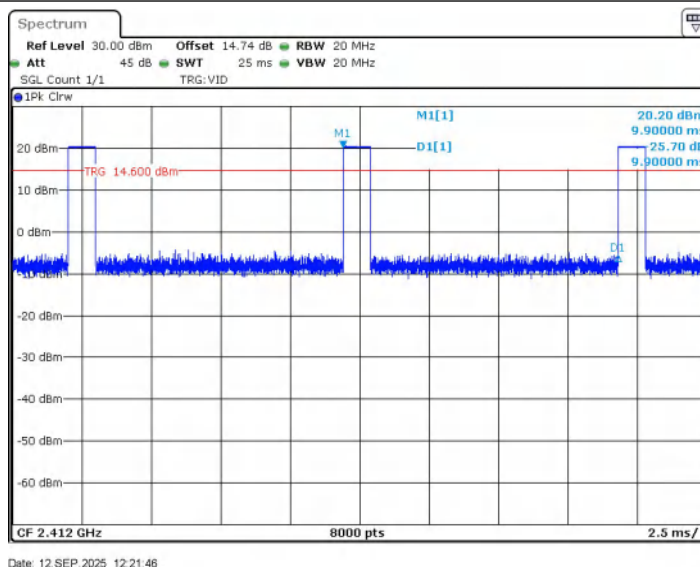
Ant1:

Operated Mode for Worst Duty Cycle:				
Test Mode	On time [Ton] (ms)	Period [Ttotal] ms)	Duty Cycle(%)	Average correction factor(dB)
IEEE802.11b	0.99	9.90	10.00	10
IEEE802.11g	0.69	6.94	9.94	10.03
IEEE802.11n (HT20)	5.36	47.32	11.33	9.45
IEEE802.11n (HT40)	3.02	27.30	11.06	9.56

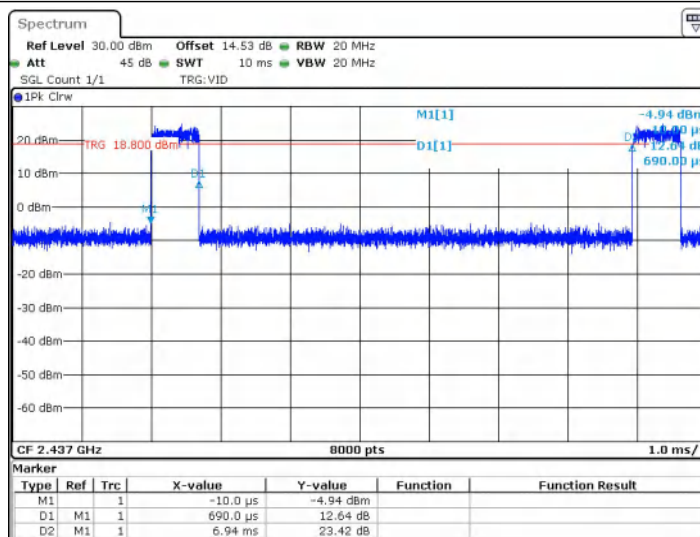
Remark:

- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = $10 * \log(1/ \text{Duty cycle})$;

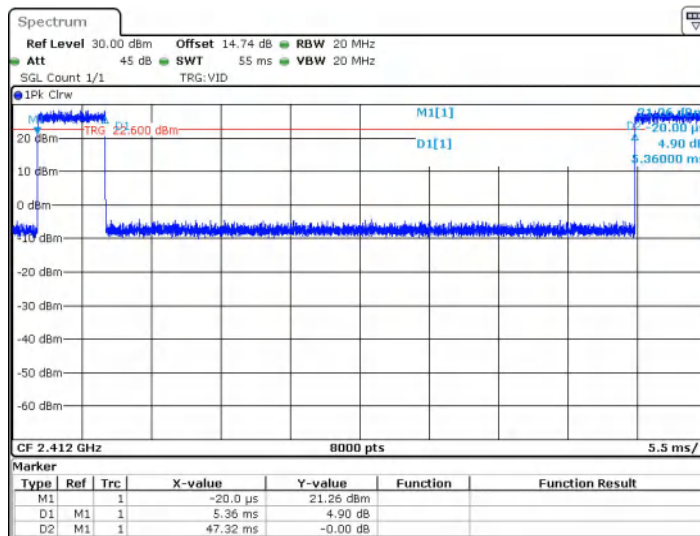
Test Graph_IEEE802.11b Duty Cycle:



Test Graph_IEEE802.11g Duty Cycle:

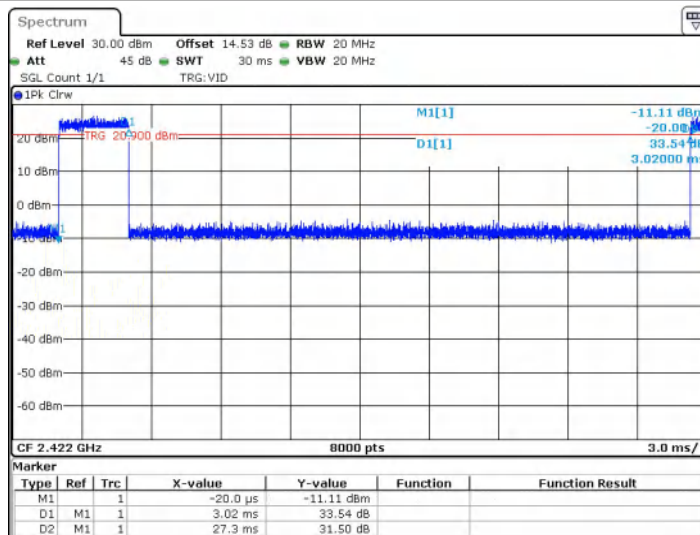


Test Graph_IEEE802.11 n (HT20) Duty Cycle:



Date: 27.MAY.2025 17:59:41

Test Graph_IEEE802.11 n (HT40) Duty Cycle:



Date: 27.MAY.2025 18:09:11

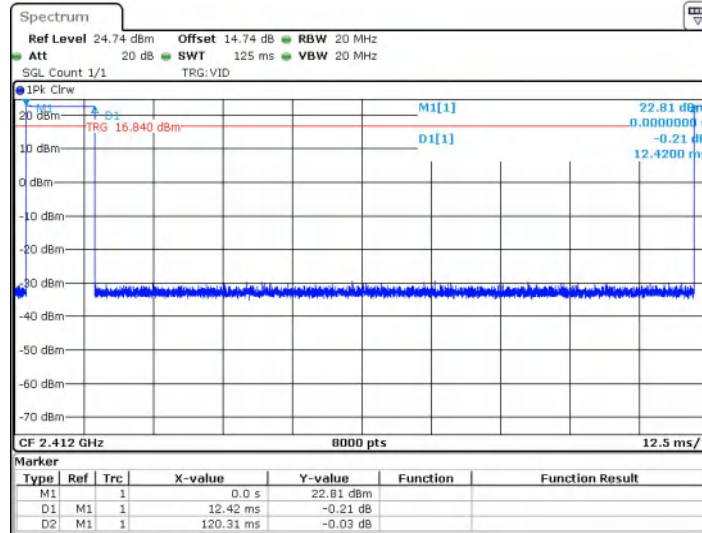
Ant2:

Operated Mode for Worst Duty Cycle:				
Test Mode	On time [Ton] (ms)	Period [Ttotal] ms)	Duty Cycle(%)	Average correction factor(dB)
IEEE802.11b	12.42	120.31	10.32	9.86
IEEE802.11g	5.47	45.30	12.08	9.17
IEEE802.11n (HT20)	5.37	47.32	11.35	9.45
IEEE802.11n (HT40)	3.02	27.30	11.06	9.56

Remark:

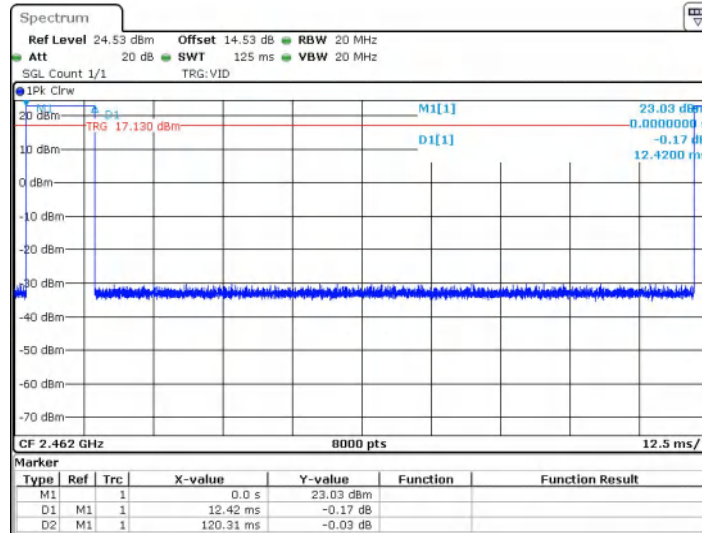
- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = $10 * \log(1/ \text{Duty cycle})$;

Test Graph_IEEE802.11b Duty Cycle:



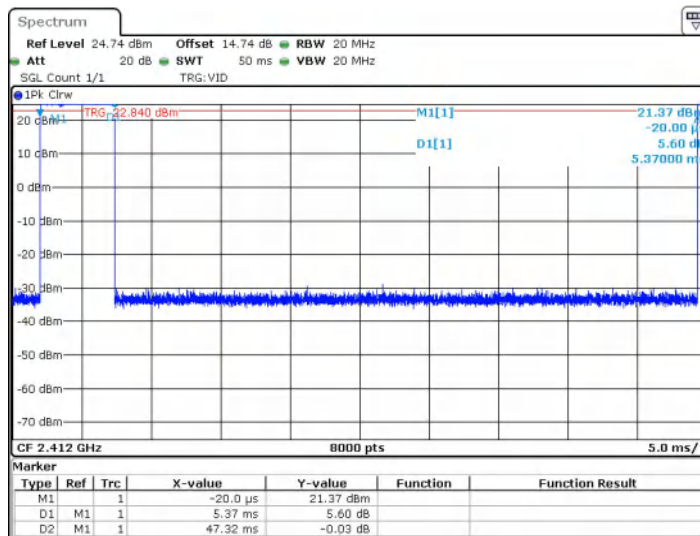
Date: 27.MAY.2025 18:28:31

Test Graph_IEEE802.11g Duty Cycle:



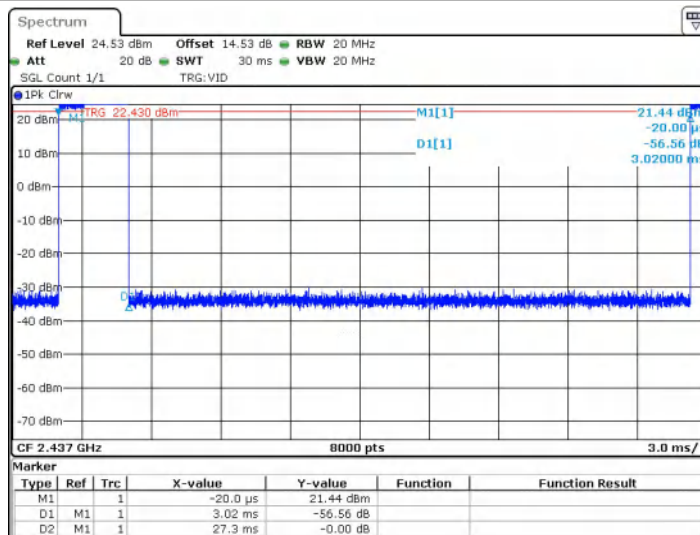
Date: 27.MAY.2025 18:33:40

Test Graph_IEEE802.11 n (HT20) Duty Cycle:



Date: 27.MAY.2025 18:47:29

Test Graph_IEEE802.11 n (HT40) Duty Cycle:



Date: 27.MAY.2025 18:58:02

3.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
/	/	/	/	/

2) Cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	/	/	/	/

3.6 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua New District, Shenzhen, Guangdong, China

3.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

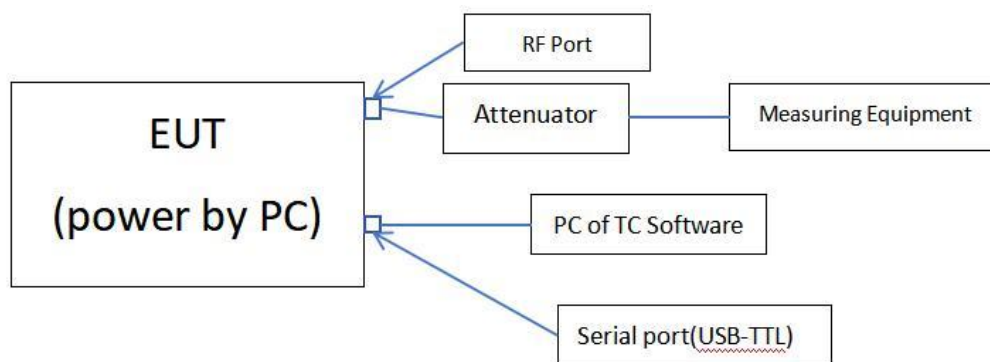
• **A2LA (Certificate No. 4742.01)**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• **FCC Registration No.: 522263**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

3.8 Test configuration



3.9 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	5.12dB	(1)
2	Radiated Emission (Above 1GHz)	4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	3.34dB	(1)
4	Radio Frequency	3×10^{-8}	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	0.8℃	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	Frequency Error	5.5 Hz	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

3.10 Deviation from Standards

None.

3.11 Abnormalities from Standard Conditions

None.

3.12 Other Information Requested by the Customer

None.

3.13 Equipment List

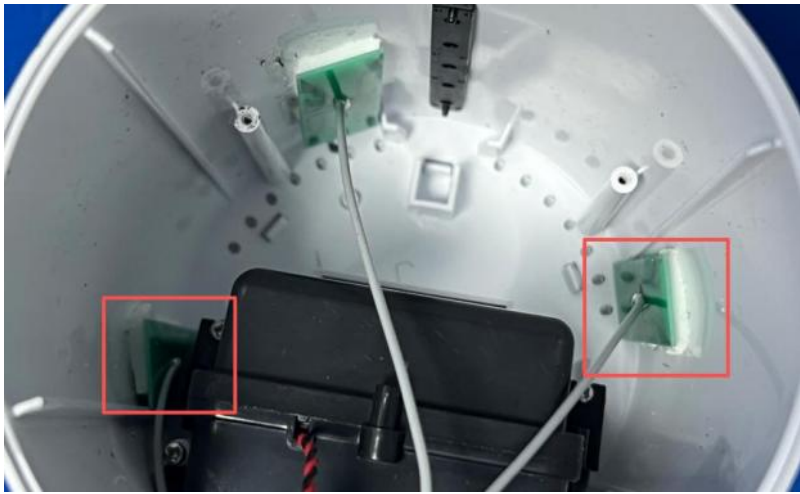
Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2024/9/2 2025/8/31	2025/9/1 2026/8/30
Spectrum analyzer	R&S	FSU26	CQA-038	2024/9/2 2025/8/31	2025/9/1 2026/8/30
Spectrum analyzer	R&S	FSU40	CQA-075	2024/9/2 2025/8/31	2025/9/1 2026/8/30
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2024/9/2 2025/8/31	2025/9/1 2026/8/30
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2024/9/2 2025/8/31	2025/9/1 2026/8/30
Preamplifier	EMCI	EMC184055SE	CQA-089	2024/9/2 2025/8/31	2025/9/1 2026/8/30
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2023/9/8	2026/9/7
Bilog Antenna	R&S	HL562	CQA-011	2023/11/01	2026/10/31
Horn Antenna	R&S	HF906	CQA-012	2023/11/01	2026/10/31
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2023/9/7	2026/9/6
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2024/9/2 2025/8/31	2025/9/1 2026/8/30
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2024/9/2 2025/8/31	2025/9/1 2026/8/30
Antenna Connector	CQA	RFC-01	CQA-080	2024/9/2 2025/8/31	2025/9/1 2026/8/30
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2024/9/2 2025/8/31	2025/9/1 2026/8/30
Power meter	R&S	NRVD	CQA-029	2024/9/2 2025/8/31	2025/9/1 2026/8/30
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2024/9/2 2025/8/31	2025/9/1 2026/8/30
EMI Test Receiver	R&S	ESR7	CQA-005	2024/9/2 2025/8/31	2025/9/1 2026/8/30
LISN	R&S	ENV216	CQA-003	2024/9/2 2025/8/31	2025/9/1 2026/8/30
Coaxial cable	CQA	N/A	CQA-C009	2024/9/2 2025/8/31	2025/9/1 2026/8/30
DC power	KEYSIGHT	E3631A	CQA-028	2024/9/2 2025/8/31	2025/9/1 2026/8/30

Test software:

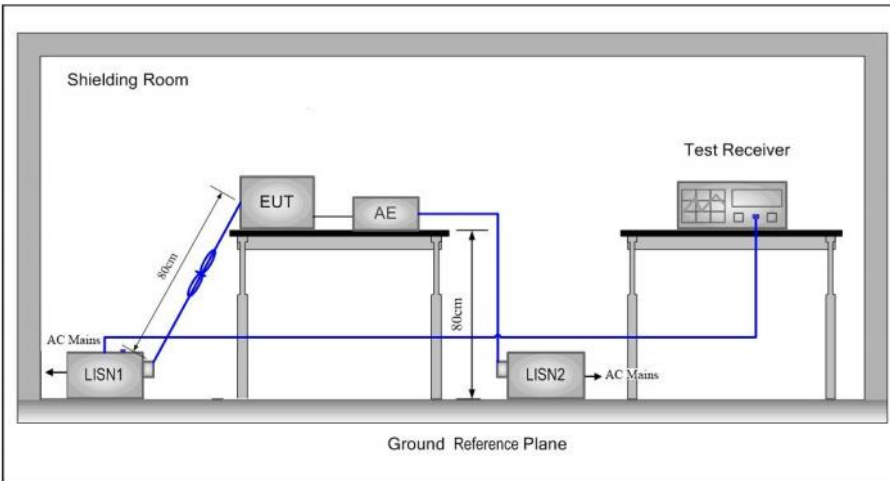
	Manufacturer	Software brand	Software version
Radiated Emissions test software	Tonscend	JS1120-3	Version:8
Conducted Emissions test software	Audix	e3	Version:9
RF Conducted test software	Audix	e3	V3.5.39

4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
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.	
EUT Antenna:	
The antenna is PCB antenna. The connection/connection type between the antenna to the EUT's antenna port is: unique coupling. This is either permanently attachment or a unique coupling that satisfies the requirement.	

4.2 Conducted Emissions

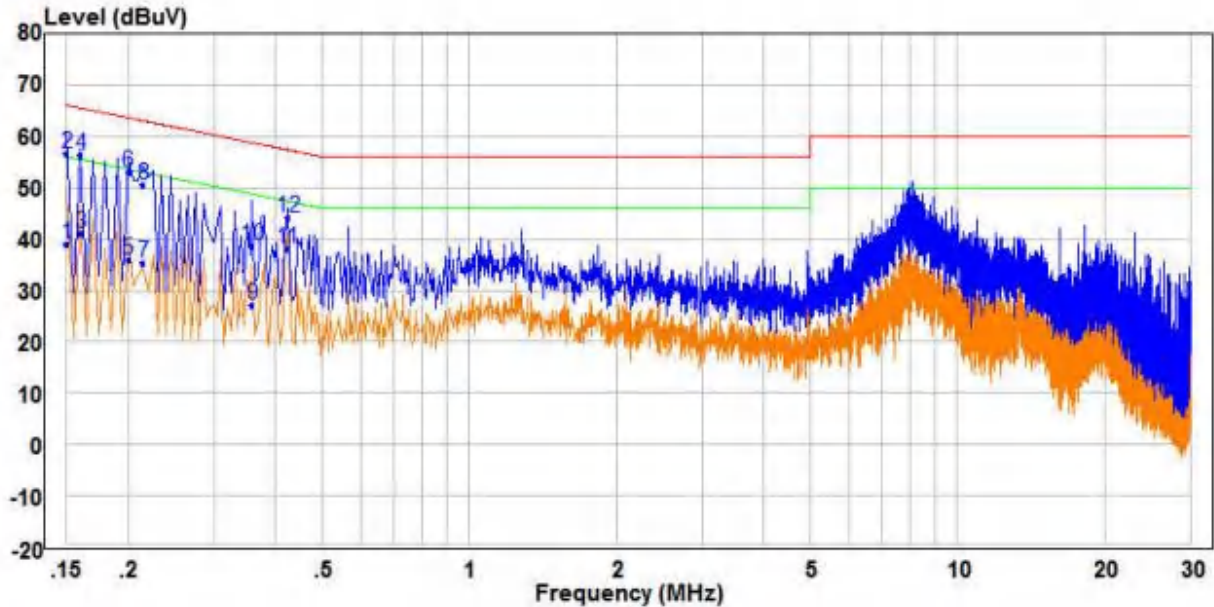
Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2020		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) 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. 3) 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, 4) 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. 5) 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: 2020 on conducted measurement.		
Test Setup:			

Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate of 802.11b at middle channel is the worst case. Only the worst case is recorded in the report.
Test Voltage:	AC120V/60Hz
Test Results:	Pass

Measurement Data

Ant1:

Live Line:

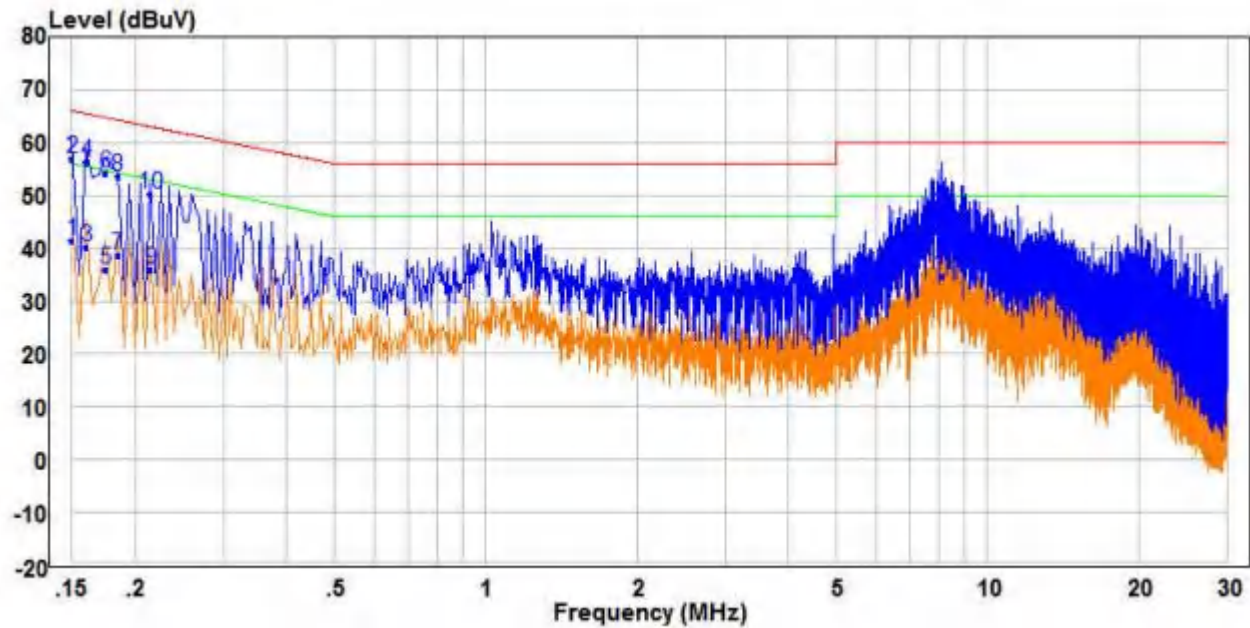


	Freq	Read		Limit	Over		
	MHz	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	Pol/Phase
1	0.150	29.15	9.70	38.85	56.00	-17.15	Average
2	0.150	47.02	9.70	56.72	66.00	-9.28	QP
3	0.160	31.54	9.68	41.22	55.46	-14.24	Average
4 PP	0.160	46.60	9.68	56.28	65.46	-9.18	QP
5	0.200	26.29	9.61	35.90	53.61	-17.71	Average
6	0.200	43.43	9.61	53.04	63.61	-10.57	QP
7	0.215	25.81	9.59	35.40	53.01	-17.61	Average
8	0.215	40.83	9.59	50.42	63.01	-12.59	QP
9	0.360	17.58	9.56	27.14	48.73	-21.59	Average
10	0.360	29.14	9.56	38.70	58.73	-20.03	QP
11 AV	0.425	28.30	9.63	37.93	47.35	-9.42	Average
12	0.425	34.52	9.63	44.15	57.35	-13.20	QP

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

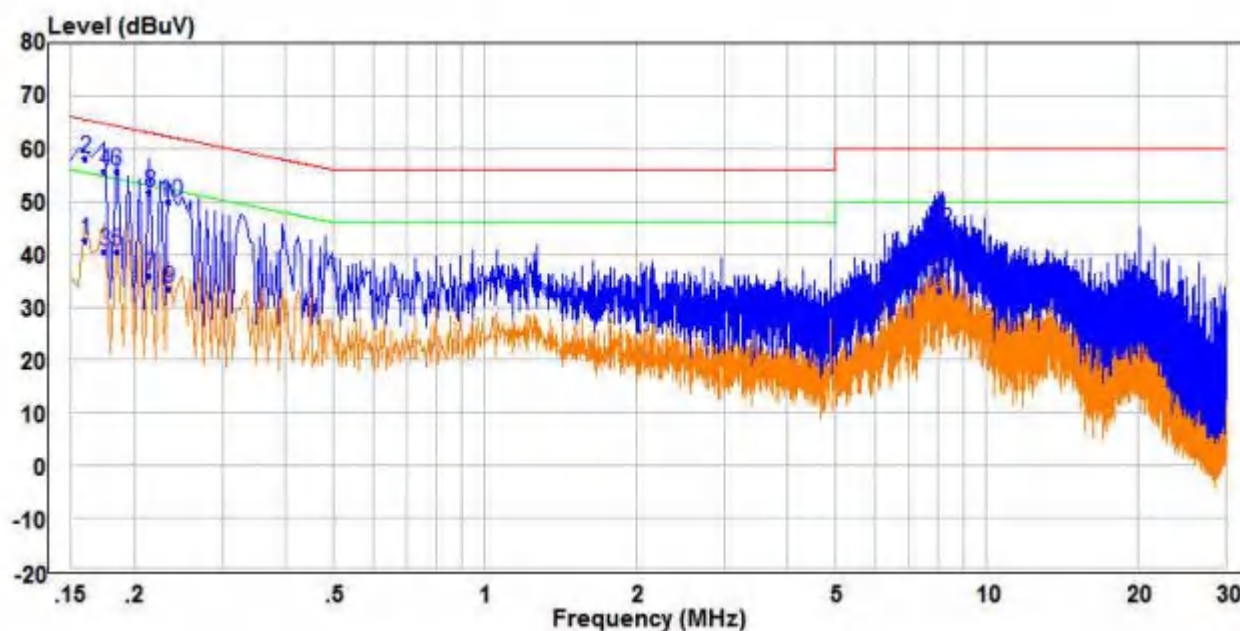
Neutral Line:



		Freq	Read	Factor	Level	Limit	Over	Remark	Pol/Phase
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	AV	0.150	31.84	9.70	41.54	56.00	-14.46	Average	Neutral
2	PP	0.150	47.24	9.70	56.94	66.00	-9.06	QP	Neutral
3		0.160	30.47	9.68	40.15	55.46	-15.31	Average	Neutral
4		0.160	46.52	9.68	56.20	65.46	-9.26	QP	Neutral
5		0.175	26.34	9.65	35.99	54.72	-18.73	Average	Neutral
6		0.175	44.62	9.65	54.27	64.72	-10.45	QP	Neutral
7		0.185	28.94	9.63	38.57	54.26	-15.69	Average	Neutral
8		0.185	43.93	9.63	53.56	64.26	-10.70	QP	Neutral
9		0.215	26.29	9.59	35.88	53.01	-17.13	Average	Neutral
10		0.215	40.72	9.59	50.31	63.01	-12.70	QP	Neutral
11		8.125	24.90	9.84	34.74	50.00	-15.26	Average	Neutral
12		8.125	36.67	9.84	46.51	60.00	-13.49	QP	Neutral

Ant 2:

Live Line:

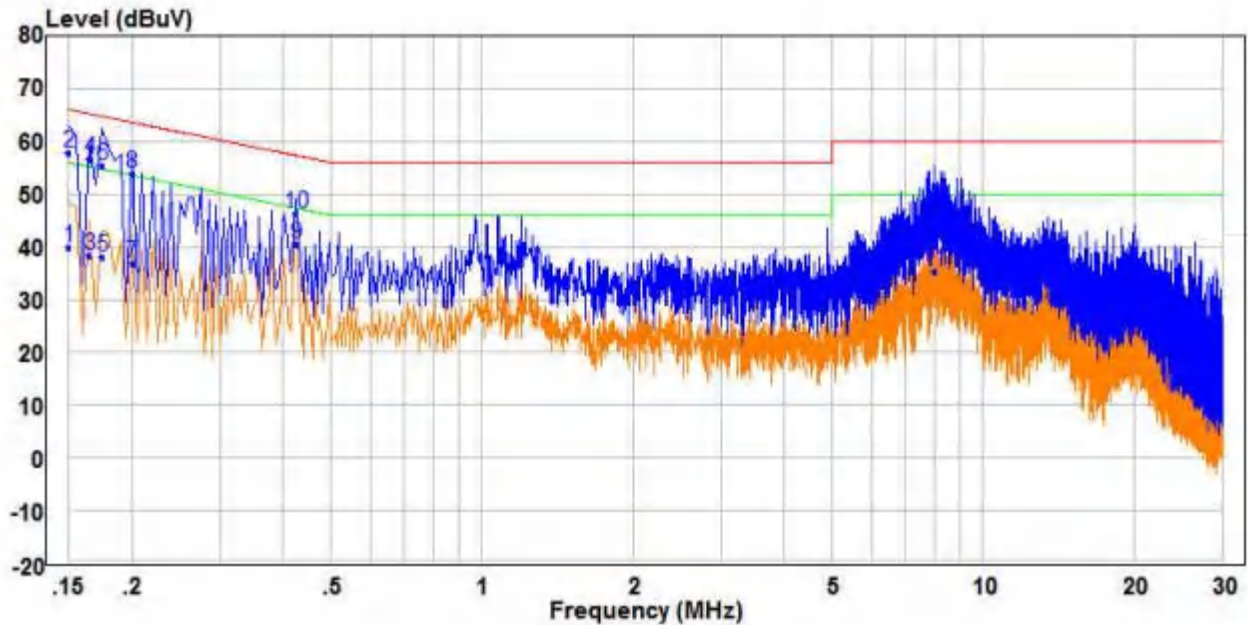


		Read		Limit	Over		
	Freq	Level	Factor	Level	Limit	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	Pol/Phase
1	AV	0.160	32.98	9.68	42.66	55.46	-12.80 Average
2	PP	0.160	48.58	9.68	58.26	65.46	-7.20 QP
3		0.175	30.84	9.65	40.49	54.72	-14.23 Average
4		0.175	46.17	9.65	55.82	64.72	-8.90 QP
5		0.185	30.93	9.64	40.57	54.26	-13.69 Average
6		0.185	45.93	9.64	55.57	64.26	-8.69 QP
7		0.215	26.33	9.59	35.92	53.01	-17.09 Average
8		0.215	42.11	9.59	51.70	63.01	-11.31 QP
9		0.235	23.94	9.56	33.50	52.27	-18.77 Average
10		0.235	40.23	9.56	49.79	62.27	-12.48 QP
11		8.070	23.29	9.84	33.13	50.00	-16.87 Average
12		8.070	34.71	9.84	44.55	60.00	-15.45 QP

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral Line:

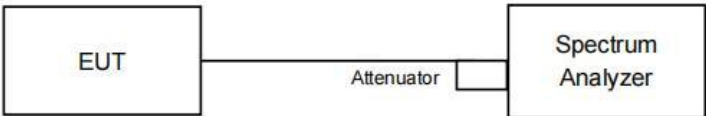


		Read		Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	Pol/Phase
1	0.150	30.20	9.70	39.90	56.00	-16.10	Average
2	QP	0.150	48.28	9.70	57.98	66.00	-8.02 QP
3	0.165	28.70	9.67	38.37	55.21	-16.84	Average
4	0.165	46.94	9.67	56.61	65.21	-8.60	QP
5	0.175	28.38	9.65	38.03	54.72	-16.69	Average
6	0.175	45.68	9.65	55.33	64.72	-9.39	QP
7	0.200	27.19	9.61	36.80	53.61	-16.81	Average
8	0.200	44.33	9.61	53.94	63.61	-9.67	QP
9	PP	0.425	30.85	9.63	40.48	47.35	-6.87
10	0.425	36.63	9.63	46.26	57.35	-11.09	QP
11	8.000	25.36	9.83	35.19	50.00	-14.81	Average
12	8.000	37.74	9.83	47.57	60.00	-12.43	QP

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

4.3 Conducted Peak & Average Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10: 2020
Test Setup:	<i>Setup for Power meter measurement method</i>  <i>Setup for Spectrum analyser measurement method</i> 
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	30dBm
Test Results:	Pass

Test Result

Ant 1:

Test Mode	Frequency [MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	18.27	≤30.00	PASS
	2437	18.65	≤30.00	PASS
	2462	20.59	≤30.00	PASS
11G	2412	19.32	≤30.00	PASS
	2437	16.23	≤30.00	PASS
	2462	14.27	≤30.00	PASS
11N20MIMO	2412	19.61	≤30.00	PASS
	2437	18.57	≤30.00	PASS
	2462	20.44	≤30.00	PASS
11N40MIMO	2422	18.48	≤30.00	PASS
	2437	19.28	≤30.00	PASS
	2452	19.08	≤30.00	PASS

Ant 2:

Test Mode	Frequency [MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	19.73	≤30.00	PASS
	2437	18.84	≤30.00	PASS
	2462	19.99	≤30.00	PASS
11G	2412	19.66	≤30.00	PASS
	2437	18.69	≤30.00	PASS
	2462	20.41	≤30.00	PASS
11N20MIMO	2412	19.66	≤30.00	PASS
	2437	18.85	≤30.00	PASS
	2462	20.19	≤30.00	PASS
11N40MIMO	2422	18.90	≤30.00	PASS
	2437	19.30	≤30.00	PASS
	2452	18.92	≤30.00	PASS

Ant 1+Ant 2:

Test Mode	Antenna	Frequency [MHz]	Result [dBm]	Limit [dBm]	Verdict
11N20MIMO	Ant1+Ant2	2412	22.65	≤28.42	PASS
		2437	21.72	≤28.42	PASS
		2462	23.33	≤28.42	PASS
11N40MIMO	Ant1+Ant2	2422	21.71	≤28.42	PASS
		2437	22.30	≤28.42	PASS
		2452	22.01	≤28.42	PASS

MIMO limit=Conducted output power Limit-(directional gains-6dBi)

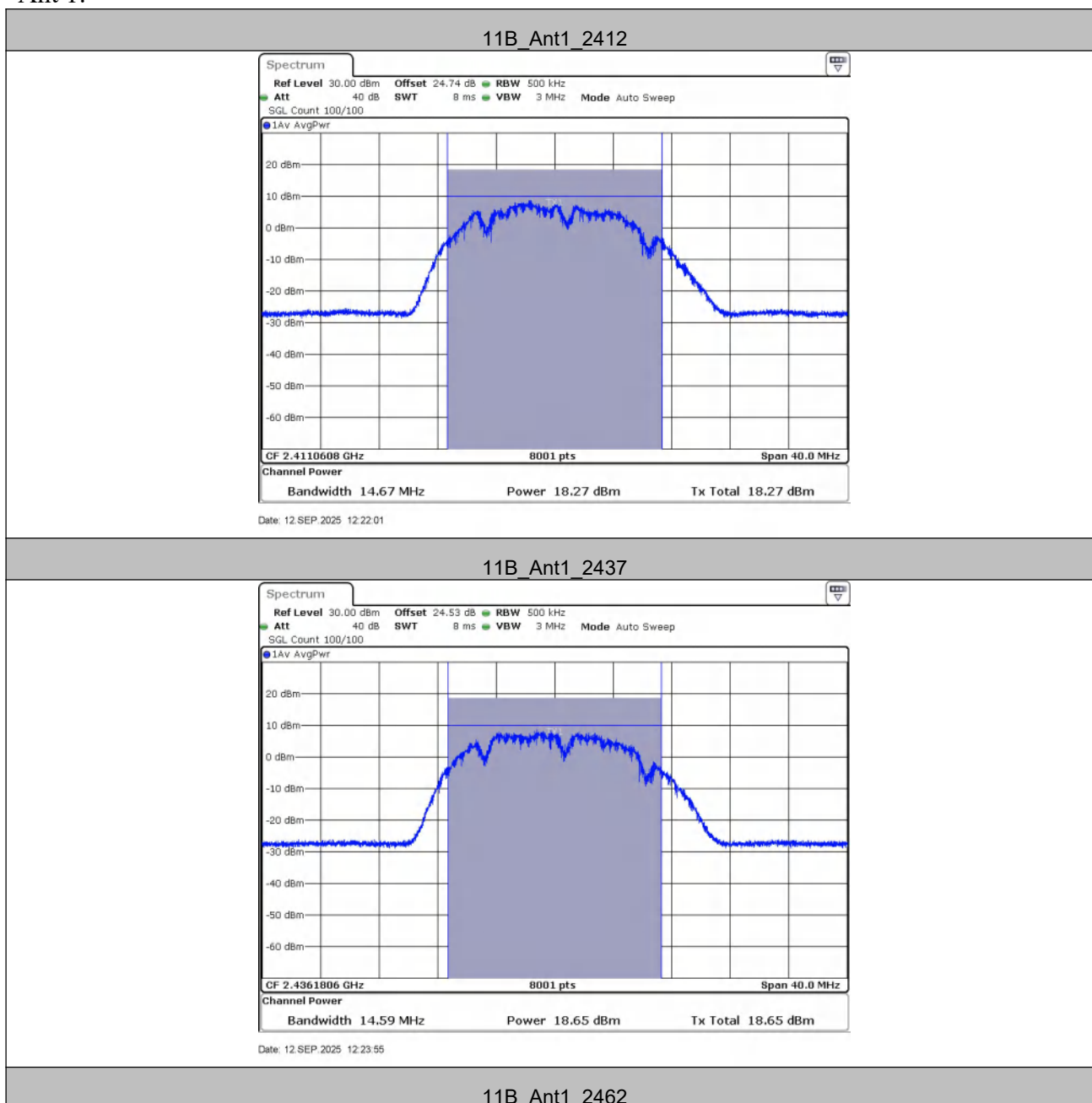
Directional gain: Ant 1 + Ant 2 =7.58dBi

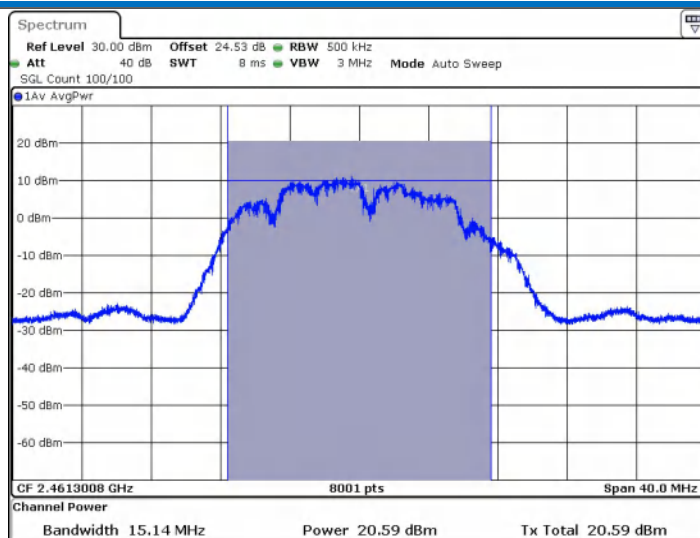
Note: Duty cycle correction factor details please see section 4.4.

When Duty cycle >98%, D.C.F is not required.

Test Graphs

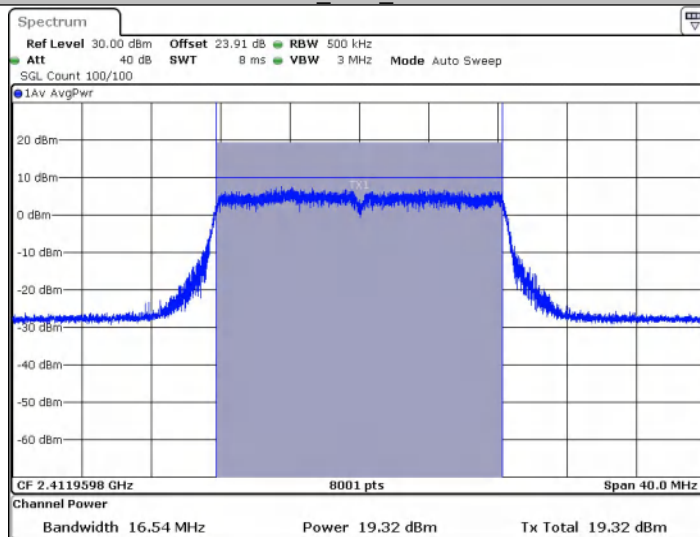
Ant 1:





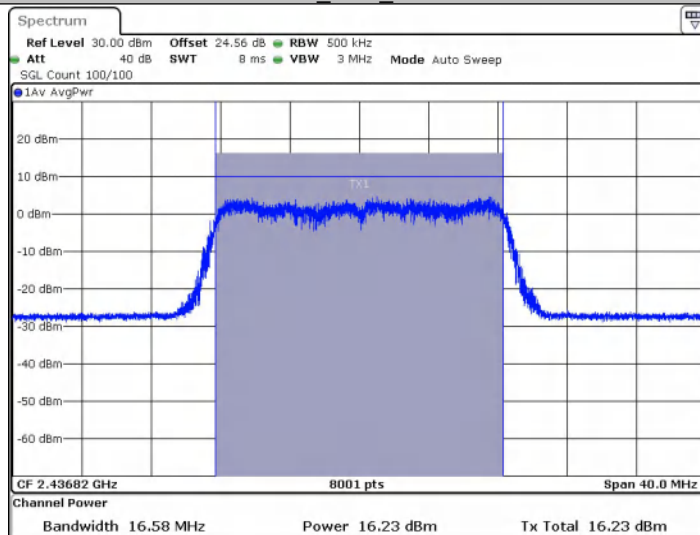
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11G_Ant1_2412



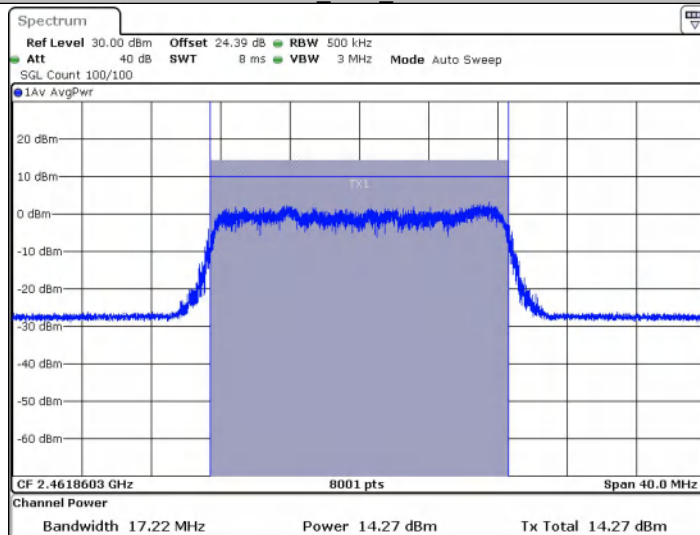
Date: 27 MAY 2025 17:51:12

11G_Ant1_2437



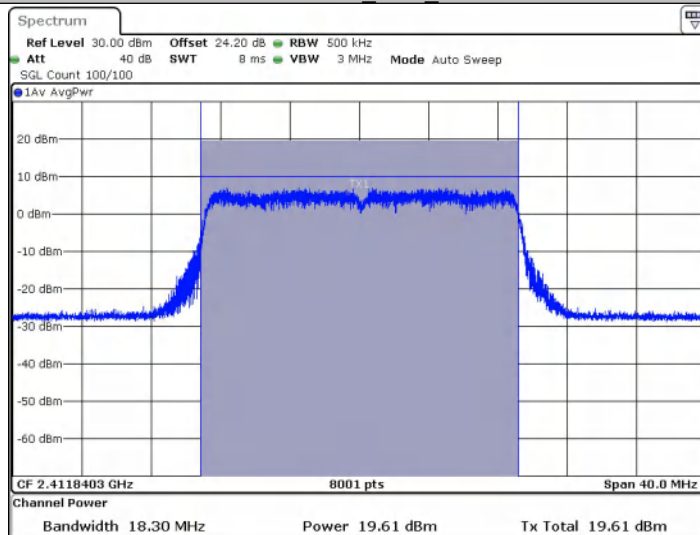
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11G_Ant1_2462



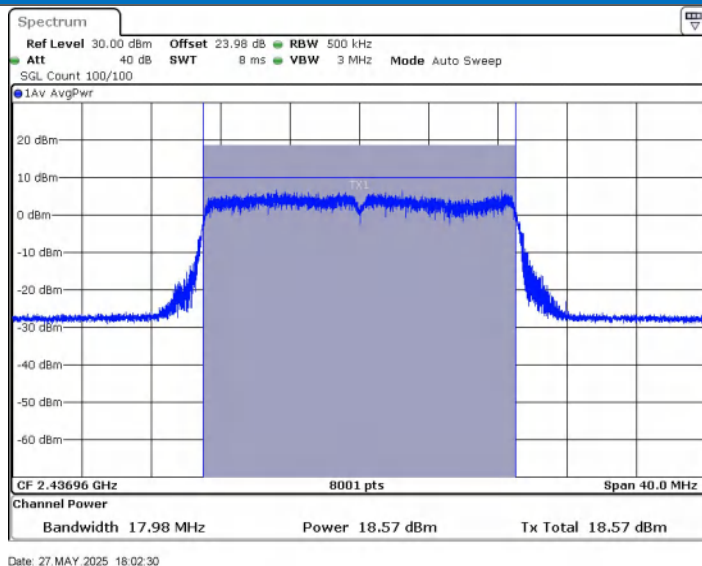
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11N20MIMO_Ant1_2412

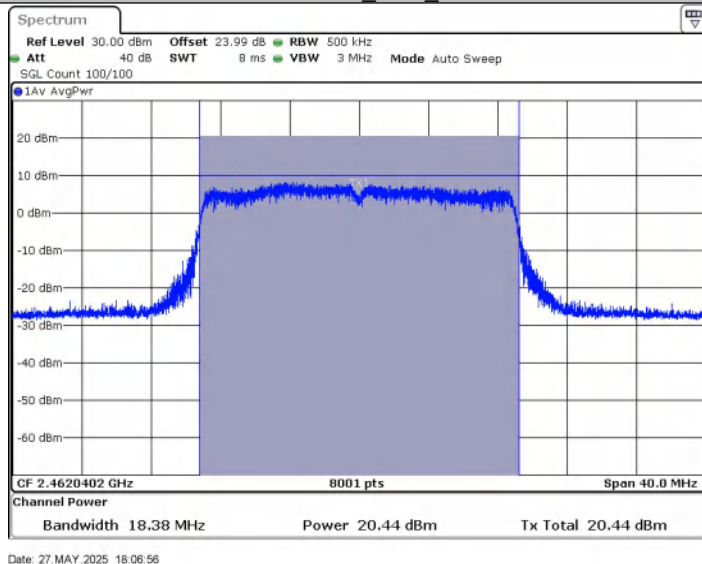


Date: 27 MAY 2025 17:59:57

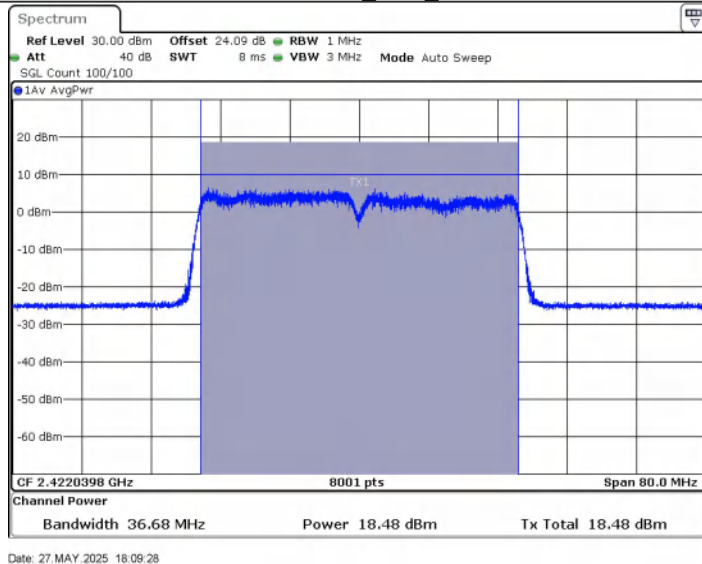
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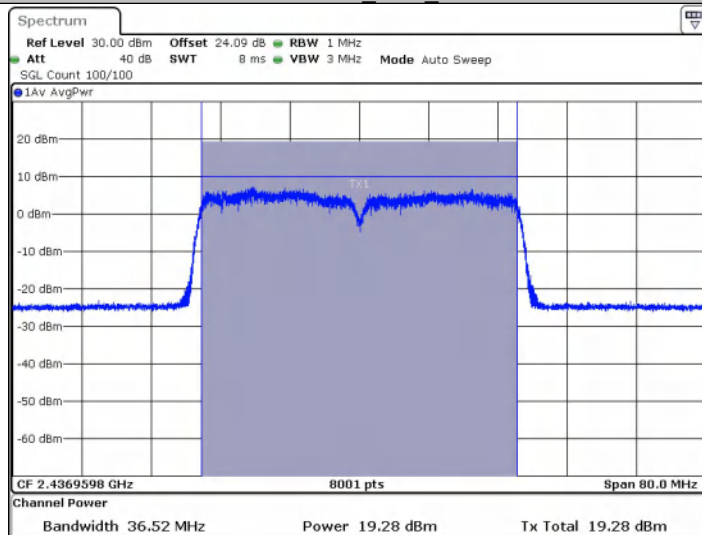
11N20MIMO_Ant1_2462



11N40MIMO_Ant1_2422

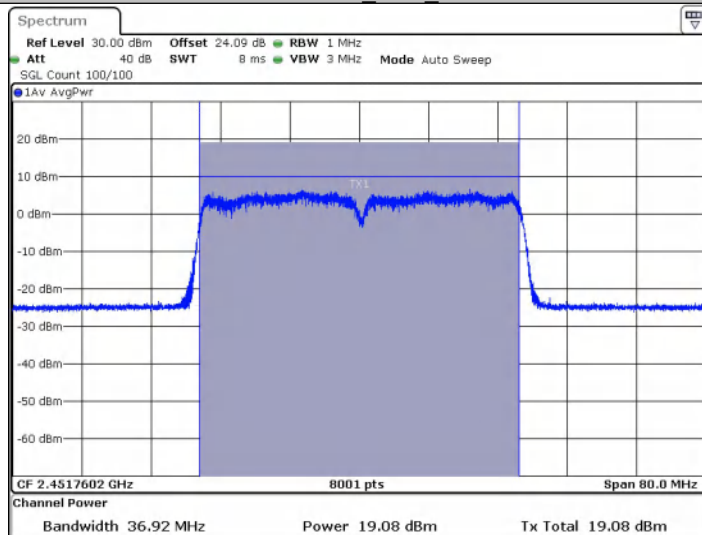


11N40MIMO_Ant1_2437



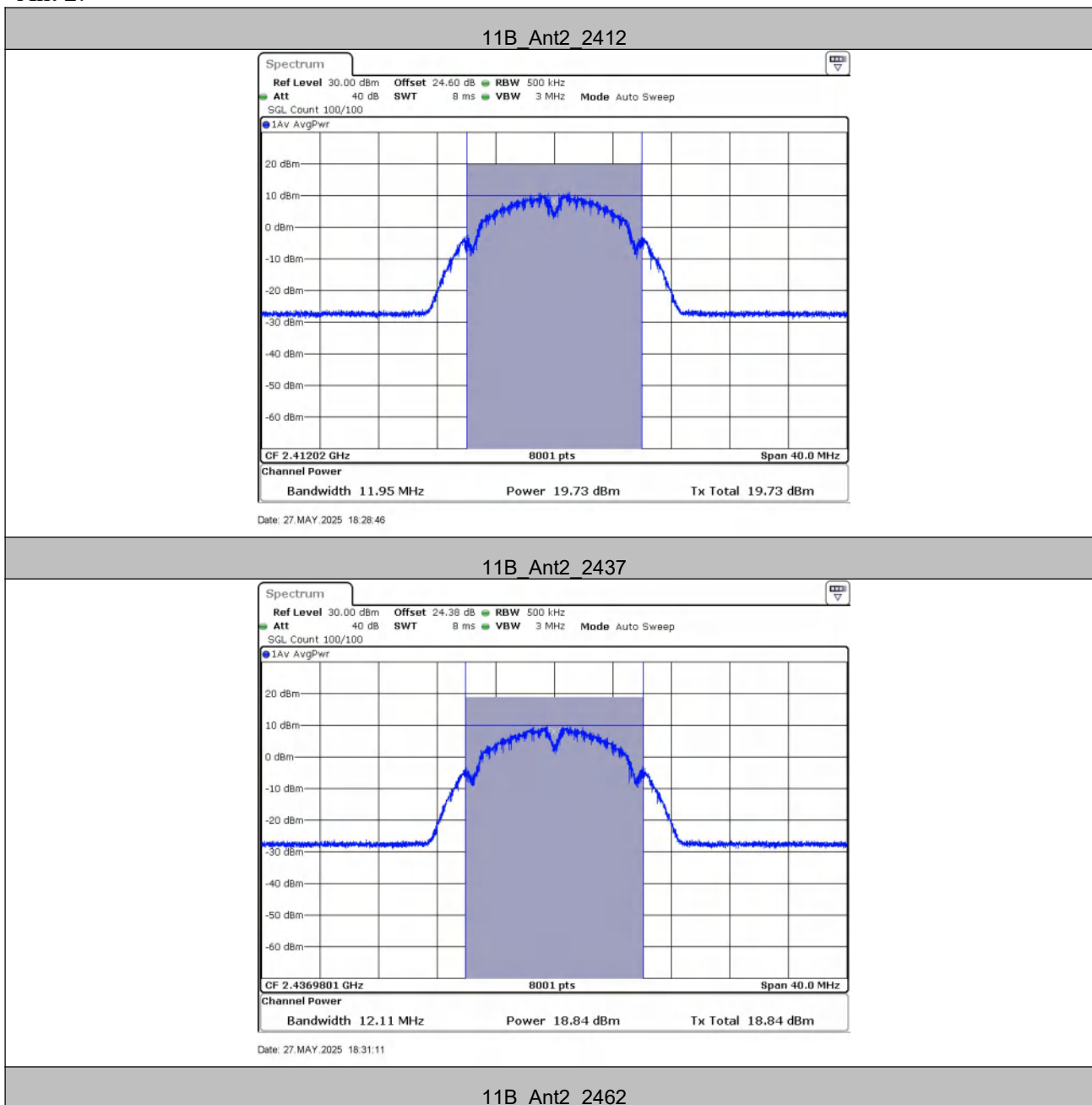
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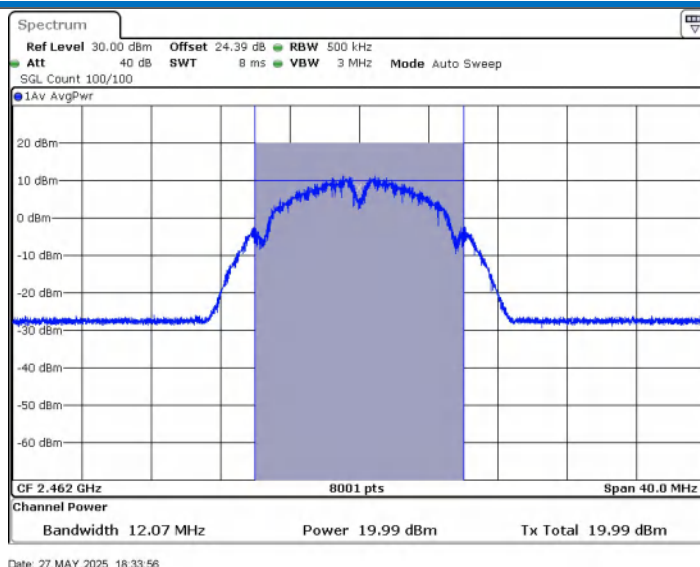
11N40MIMO_Ant1_2452



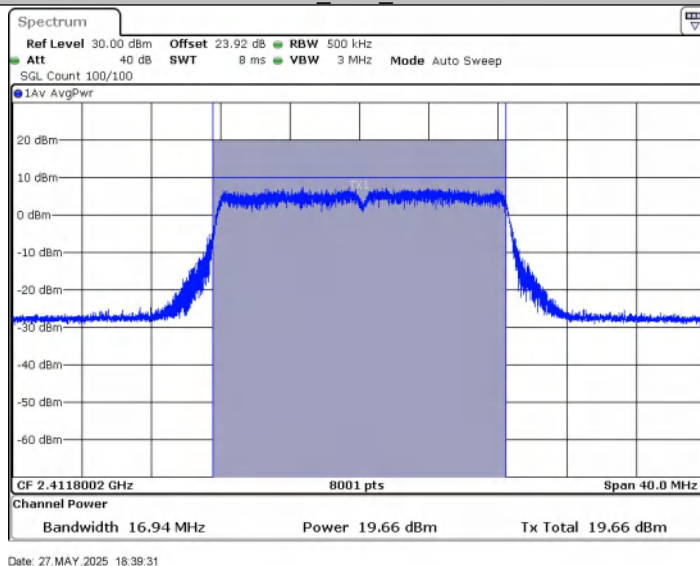
Date: 27 MAY 2025 18:15:05

Ant 2:

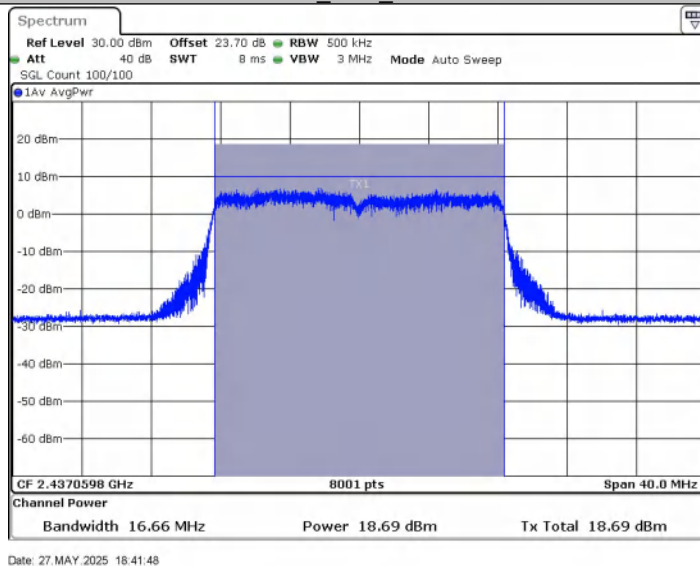




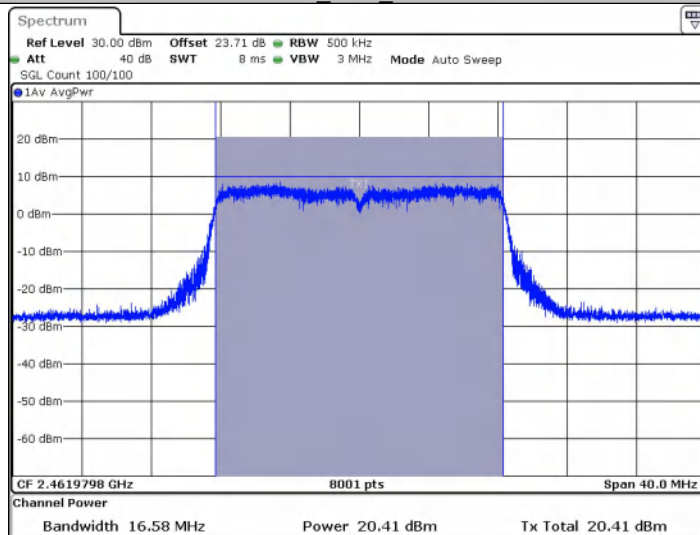
11G_Ant2_2412



11G_Ant2_2437

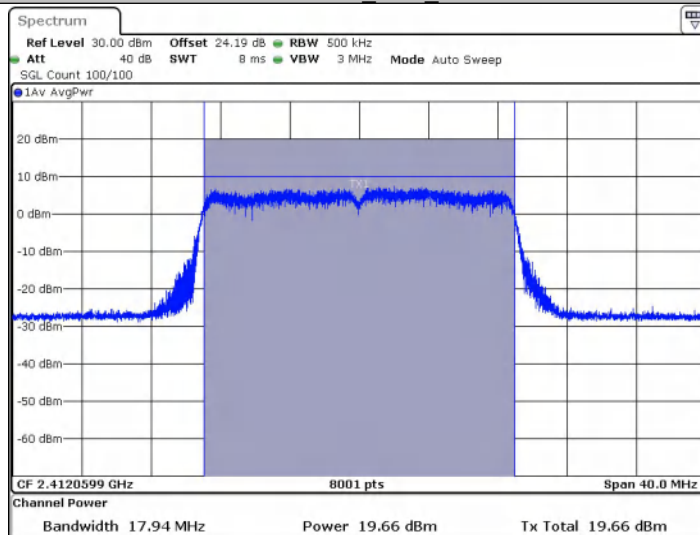


11G_Ant2_2462



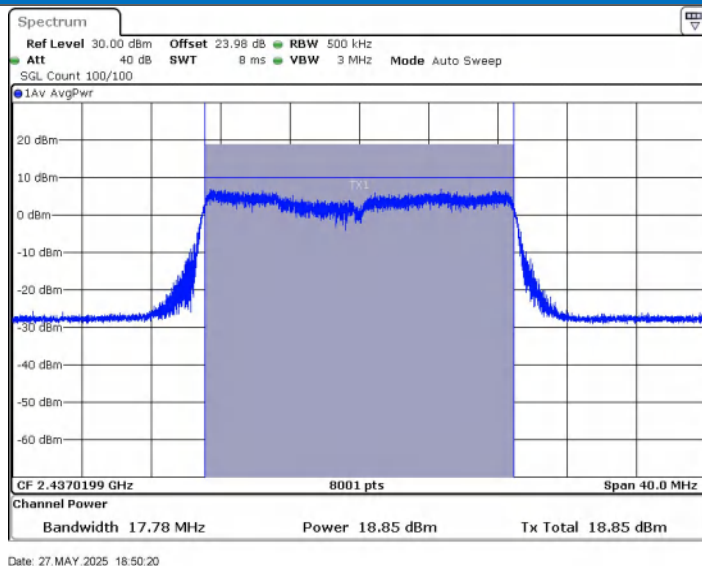
Date: 27 MAY 2025 18:43:56

11N20MIMO_Ant2_2412

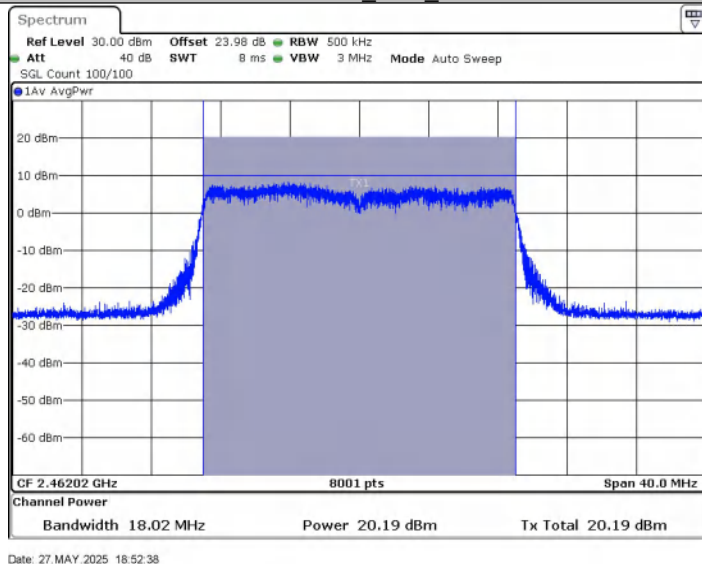


Date: 27 MAY 2025 18:47:44

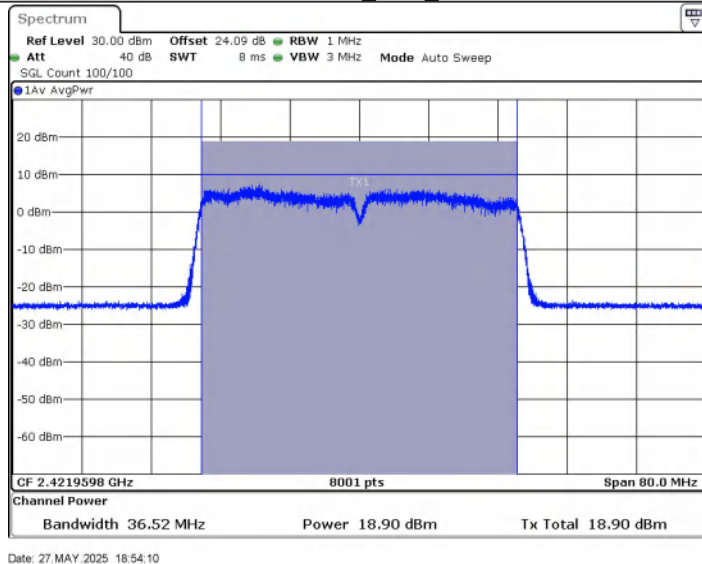
11N20MIMO_Ant2_2437



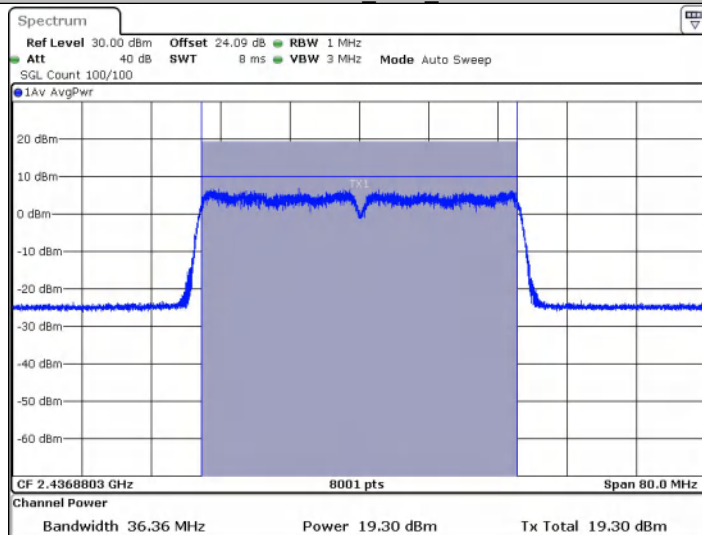
11N20MIMO_Ant2_2462



11N40MIMO_Ant2_2422

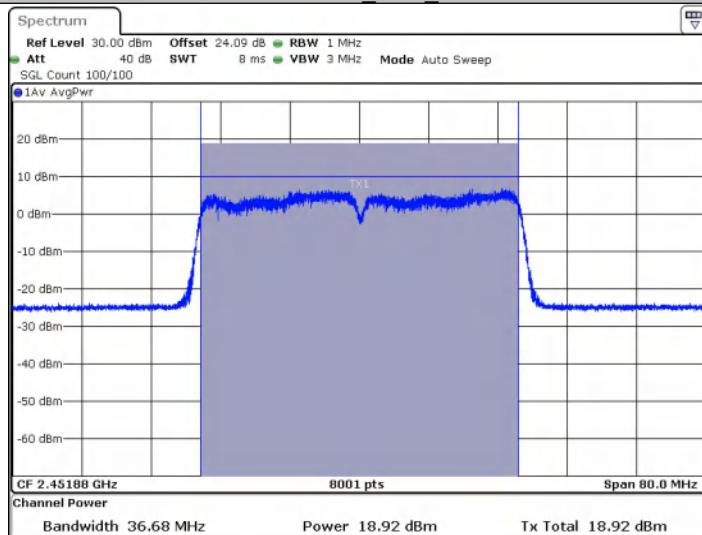


11N40MIMO_Ant2_2437



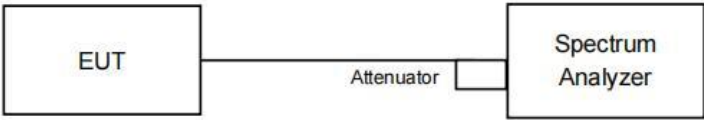
Date: 27 MAY 2025 18:58:18

11N40MIMO_Ant2_2452



Date: 27 MAY 2025 19:57:10

4.4 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C
Test Method:	ANSI C63.10: 2020
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Test Results:	Pass

Test Result

Ant 1:

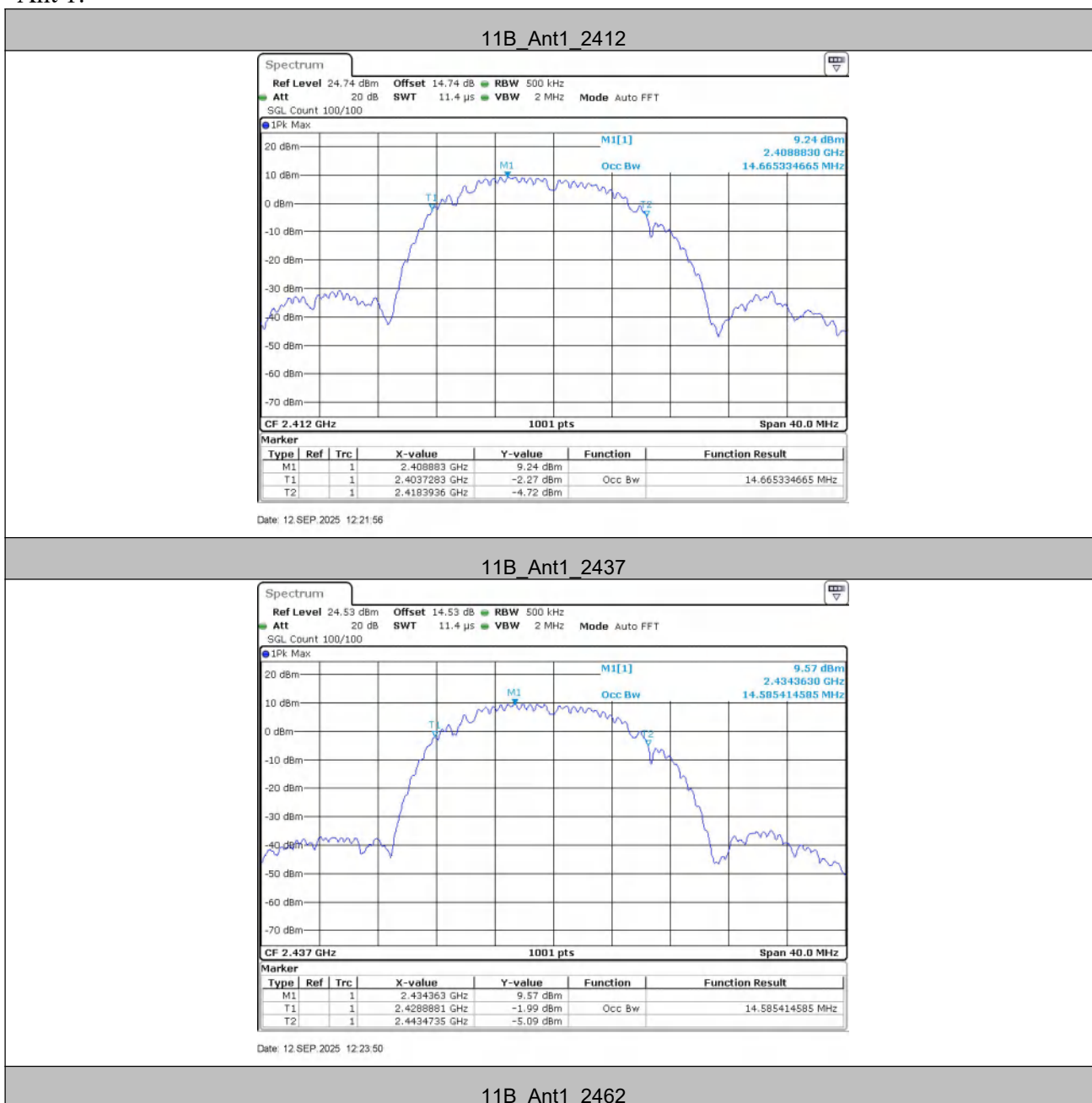
TestMode	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	2412	14.665	2403.7283	2418.3936
	2437	14.585	2428.8881	2443.4735
	2462	15.145	2453.7283	2468.8731
11G	2412	16.543	2403.6883	2420.2318
	2437	17.702	2428.0490	2445.7512
	2462	17.862	2452.9690	2470.8312
11N20MIMO	2412	18.302	2402.6893	2420.9910
	2437	17.982	2427.9690	2445.9510
	2462	18.382	2452.8492	2471.2308
11N40MIMO	2422	36.683	2403.6983	2440.3816
	2437	36.523	2418.6983	2455.2218
	2452	36.923	2433.2987	2470.2218

Ant 2:

TestMode	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	2412	11.948	2406.0460	2417.9940
	2437	12.108	2430.9261	2443.0340
	2462	12.068	2455.9660	2468.0340
11G	2412	16.943	2403.3287	2420.2717
	2437	16.663	2428.7283	2445.3916
	2462	16.583	2453.6883	2470.2717
11N20MIMO	2412	17.942	2403.0889	2421.0310
	2437	17.782	2428.1289	2445.9111
	2462	18.022	2453.0090	2471.0310
11N40MIMO	2422	36.523	2403.6983	2440.2218
	2437	36.364	2418.6983	2455.0619
	2452	36.683	2433.5385	2470.2218

Test Graphs

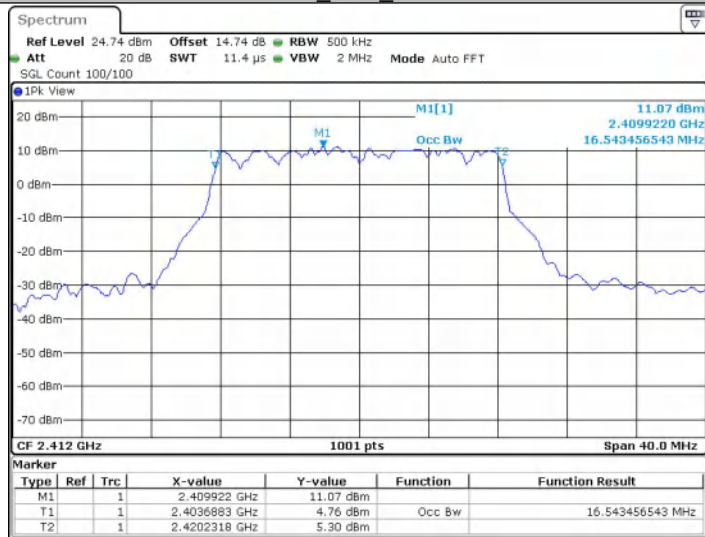
Ant 1:





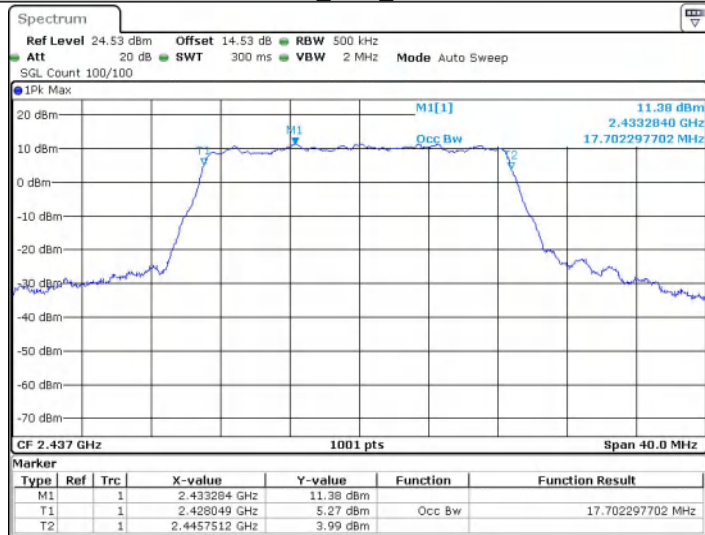
Date: 12 SEP. 2025 12:25:56

11G_Ant1_2412



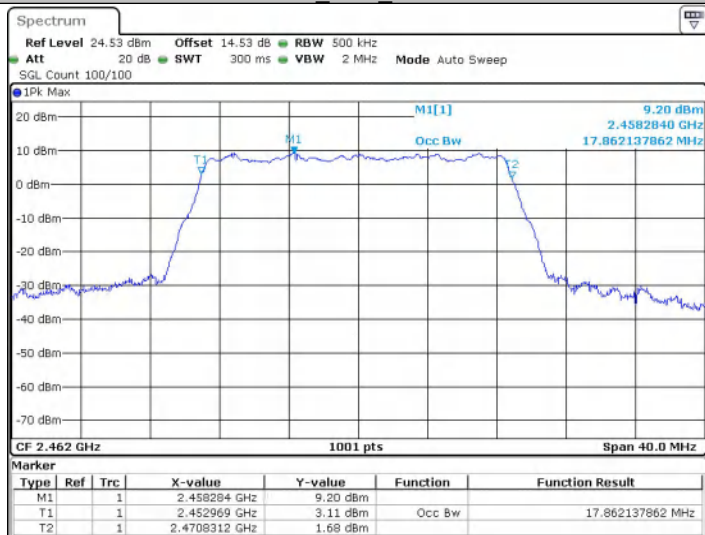
Date: 27 MAY 2025 17:51:08

11G_Ant1_2437



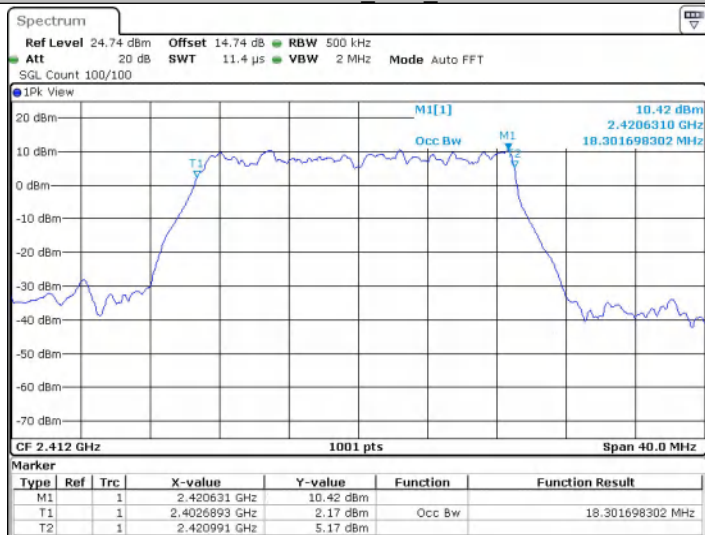
Date: 12 SEP 2025 14:53:31

11G_Ant1_2462



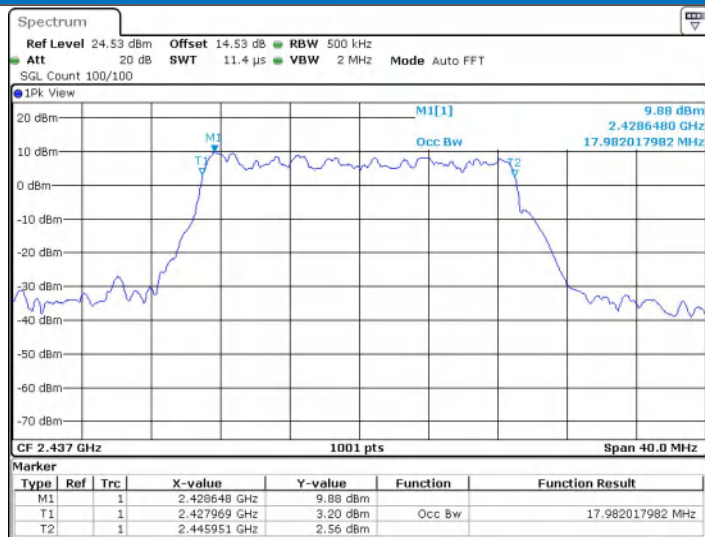
Date: 12 SEP 2025 15:01:35

11N20MIMO_Ant1_2412



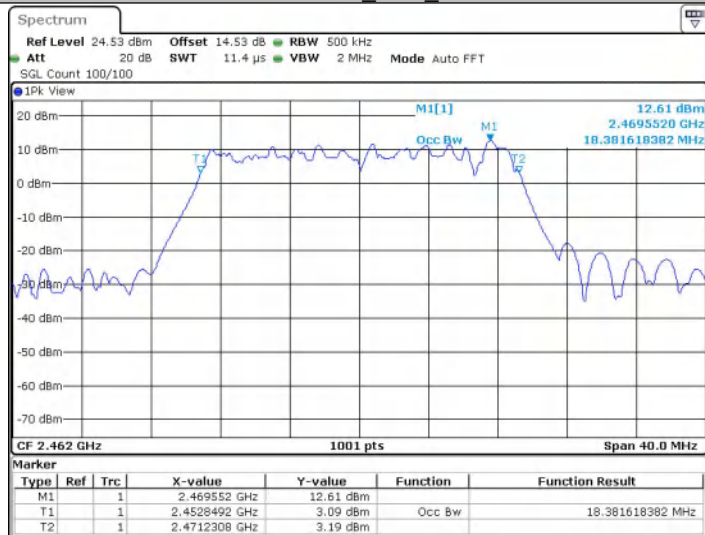
Date: 27 MAY 2025 17:59:51

11N20MIMO_Ant1_2437



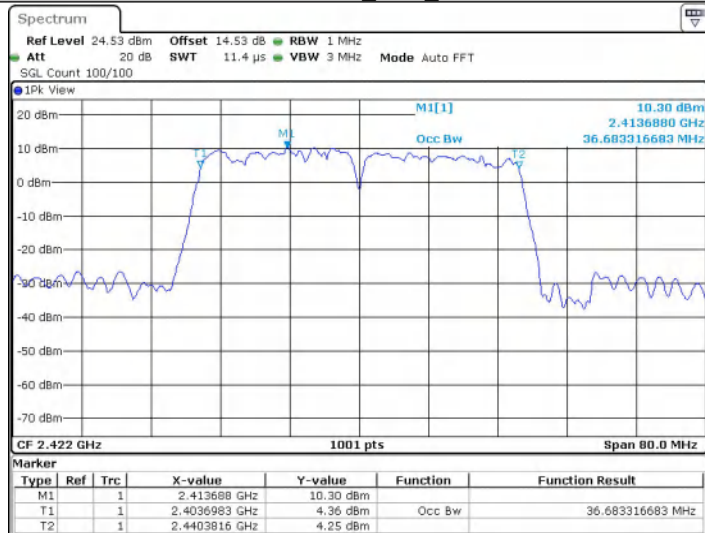
Date: 27.MAY.2025 18:02:24

11N20MIMO_Ant1_2462



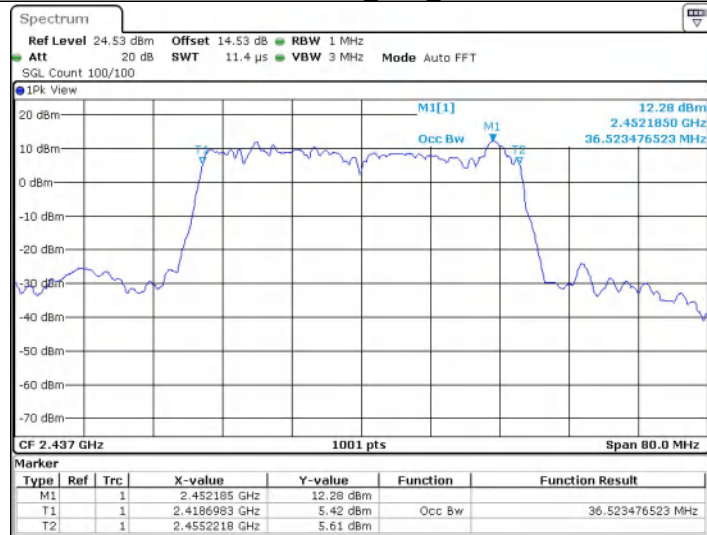
Date: 27.MAY.2025 18:06:50

11N40MIMO_Ant1_2422



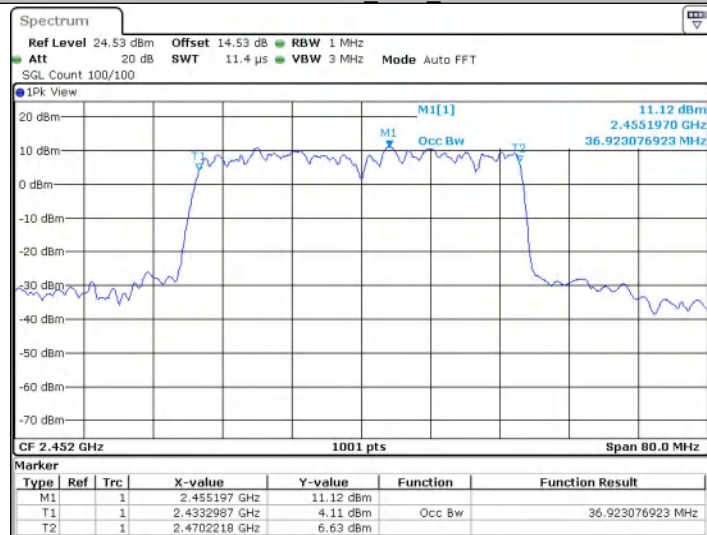
Date: 27.MAY.2025 18:09:22

11N40MIMO_Ant1_2437



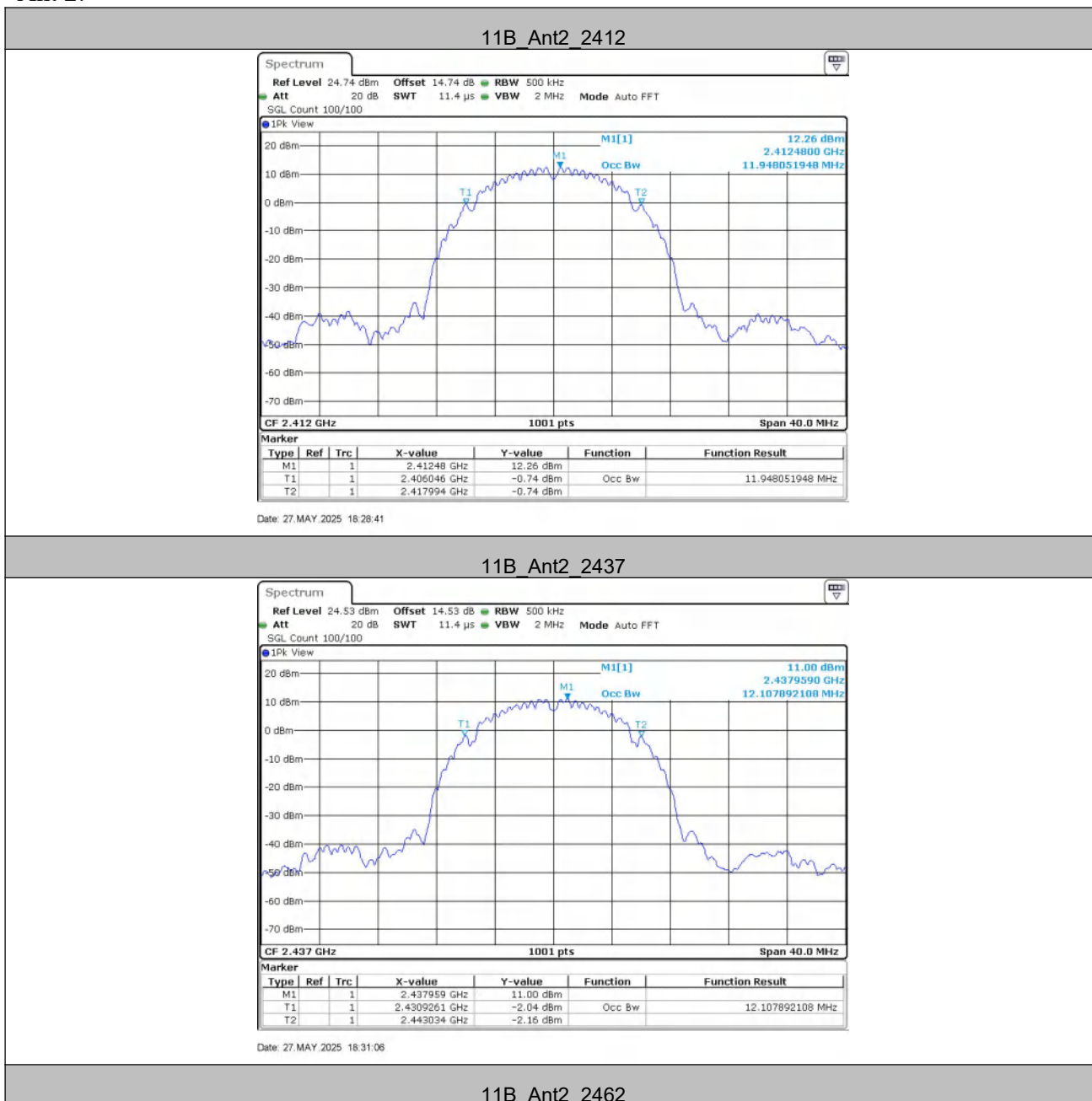
Date: 27 MAY 2025 18:12:29

11N40MIMO_Ant1_2452



Date: 27 MAY 2025 18:15:00

Ant 2:

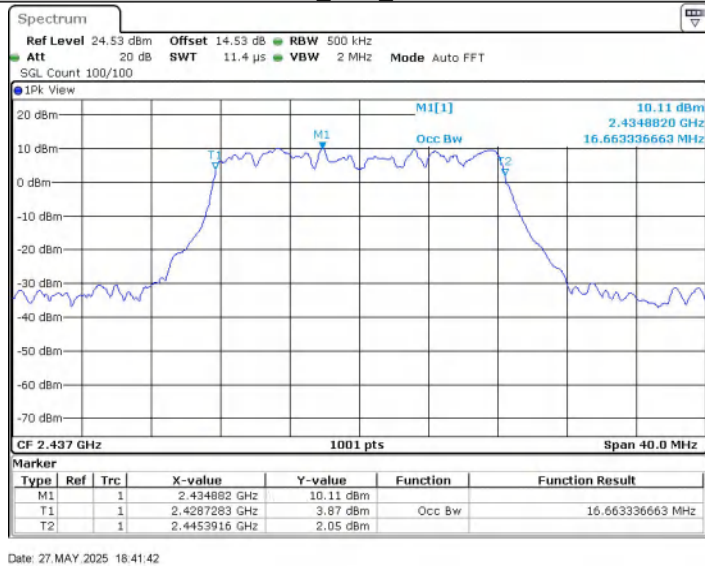




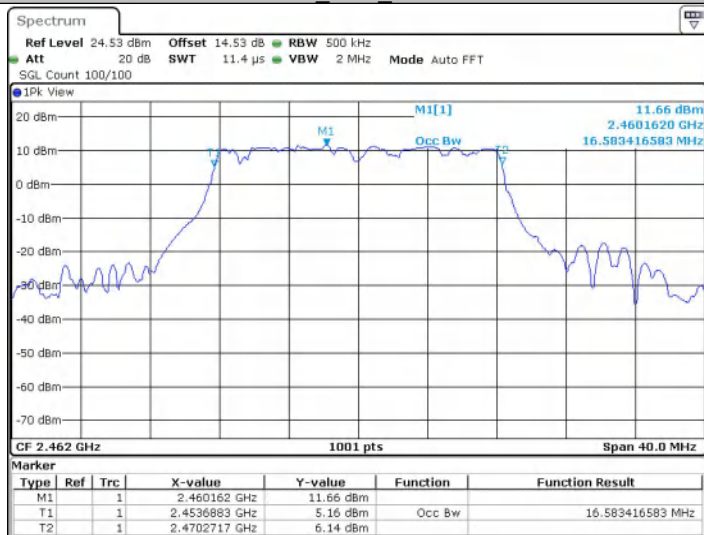
11G_Ant2_2412



11G_Ant2_2437

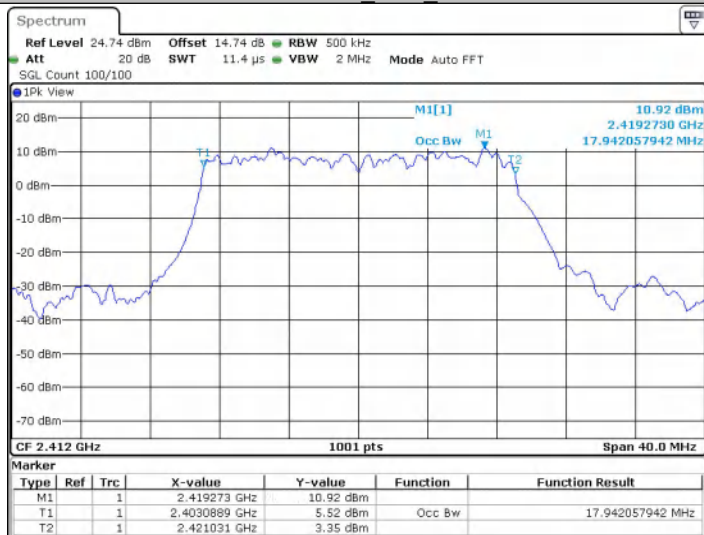


11G_Ant2_2462



Date: 27 MAY 2025 18:43:50

11N20MIMO_Ant2_2412

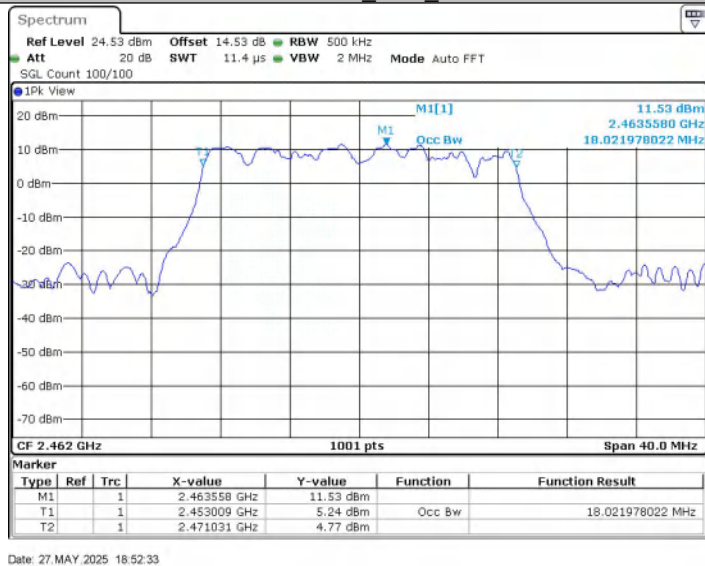


Date: 27 MAY 2025 18:47:39

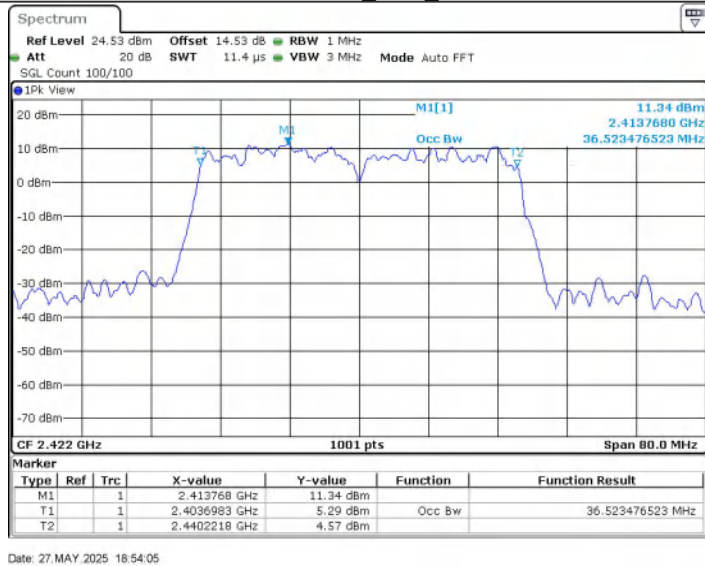
11N20MIMO_Ant2_2437



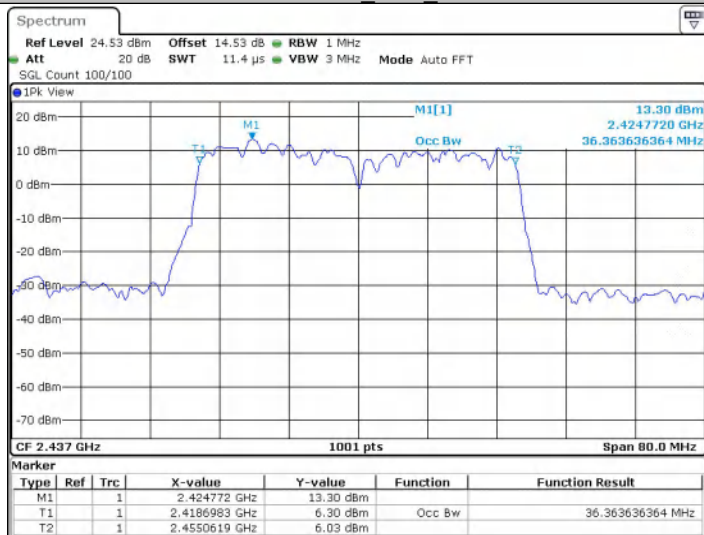
11N20MIMO_Ant2_2462



11N40MIMO_Ant2_2422

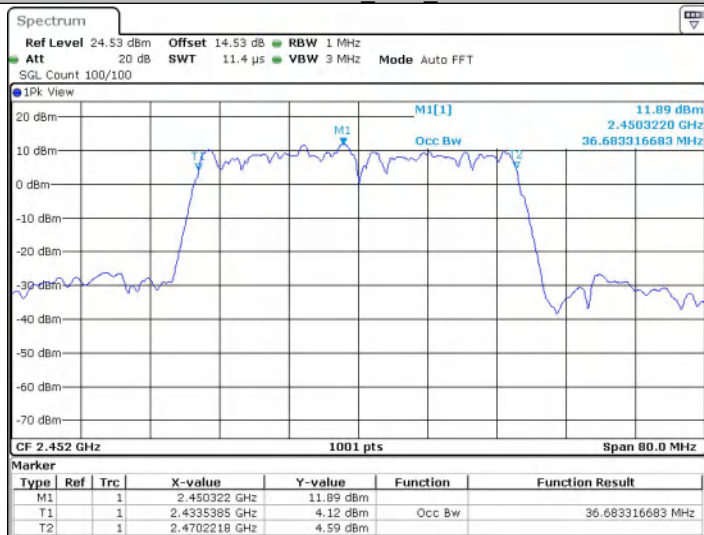


11N40MIMO_Ant2_2437



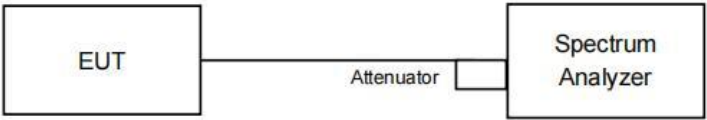
Date: 27 MAY 2025 18:58:13

11N40MIMO_Ant2_2452



Date: 27 MAY 2025 19:57:05

4.5 6dB Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2020
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	≥ 500 kHz
Test Results:	Pass

Test Result

Ant 1:

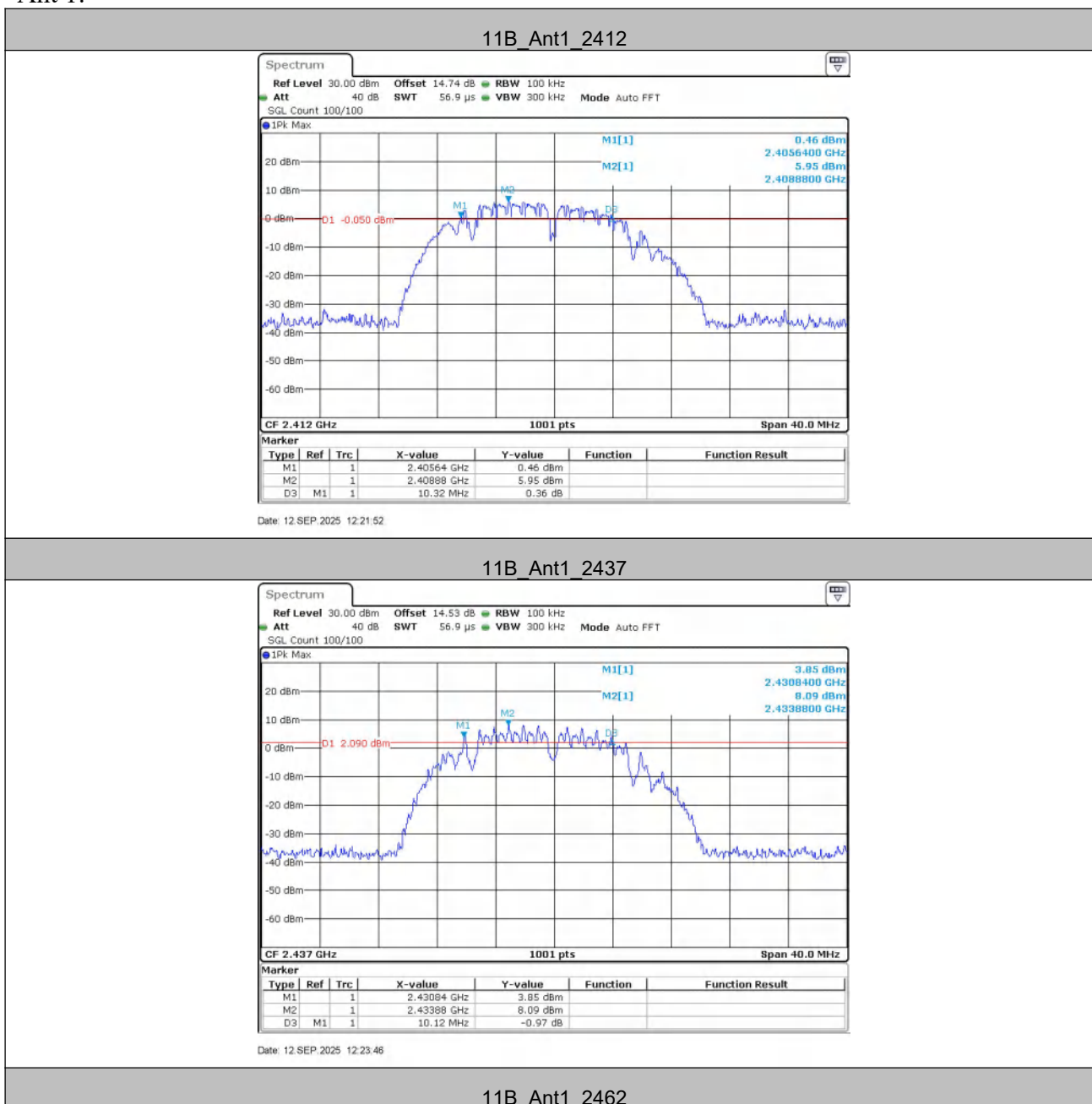
TestMode	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	2412	10.32	2405.64	2415.96	0.5	PASS
	2437	10.12	2430.84	2440.96	0.5	PASS
	2462	11.88	2454.84	2466.72	0.5	PASS
11G	2412	16.60	2403.68	2420.28	0.5	PASS
	2437	16.28	2428.76	2445.04	0.5	PASS
	2462	16.32	2453.72	2470.04	0.5	PASS
11N20MIMO	2412	17.84	2403.08	2420.92	0.5	PASS
	2437	17.68	2428.12	2445.80	0.5	PASS
	2462	17.84	2453.08	2470.92	0.5	PASS
11N40MIMO	2422	36.32	2403.84	2440.16	0.5	PASS
	2437	36.48	2418.76	2455.24	0.5	PASS
	2452	36.48	2433.76	2470.24	0.5	PASS

Ant 2:

TestMode	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	2412	7.68	2408.16	2415.84	0.5	PASS
	2437	7.76	2433.12	2440.88	0.5	PASS
	2462	7.12	2458.44	2465.56	0.5	PASS
11G	2412	16.56	2403.72	2420.28	0.5	PASS
	2437	16.56	2428.72	2445.28	0.5	PASS
	2462	16.60	2453.68	2470.28	0.5	PASS
11N20MIMO	2412	17.76	2403.08	2420.84	0.5	PASS
	2437	17.80	2428.08	2445.88	0.5	PASS
	2462	17.84	2453.08	2470.92	0.5	PASS
11N40MIMO	2422	36.56	2403.68	2440.24	0.5	PASS
	2437	36.48	2418.76	2455.24	0.5	PASS
	2452	36.56	2433.76	2470.32	0.5	PASS

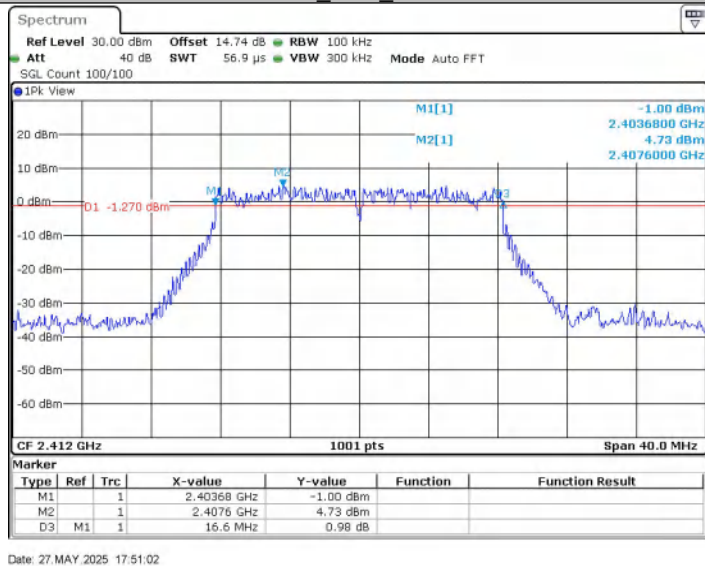
Test Graphs

Ant 1:

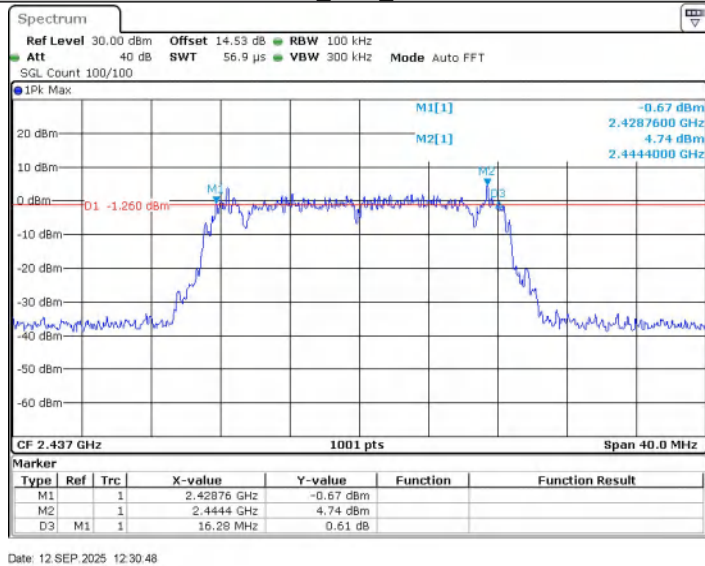




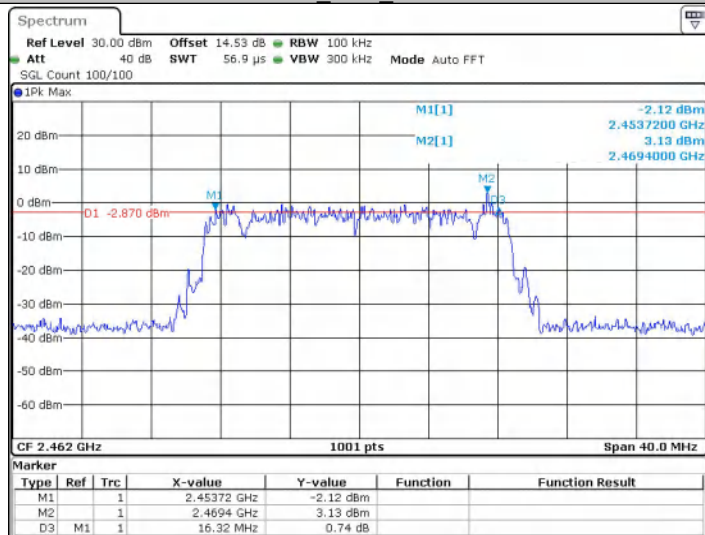
11G_Ant1_2412



11G_Ant1_2437

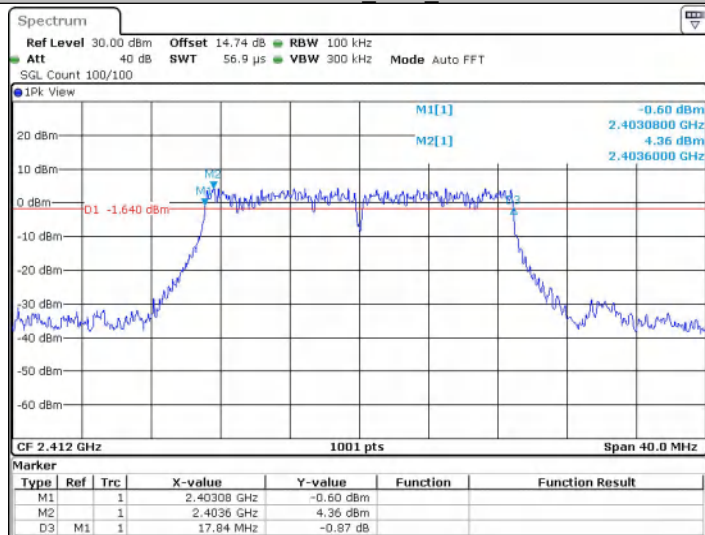


11G_Ant1_2462



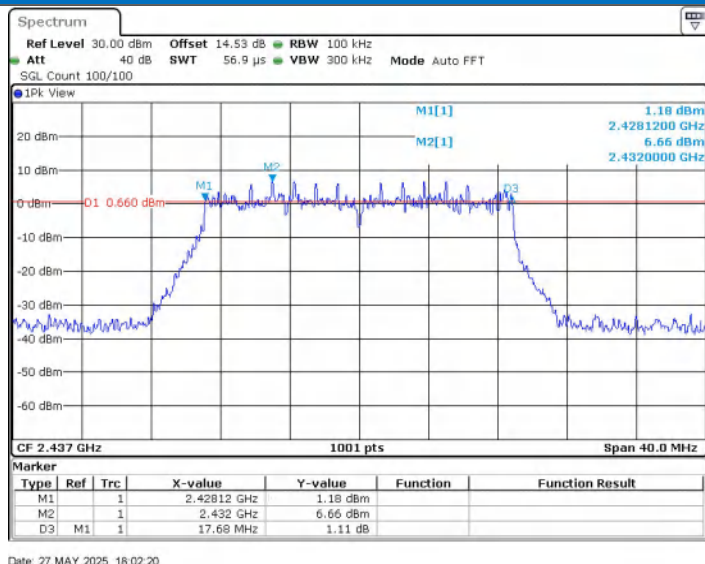
Date: 12 SEP 2025 14:50:17

11N20MIMO_Ant1_2412

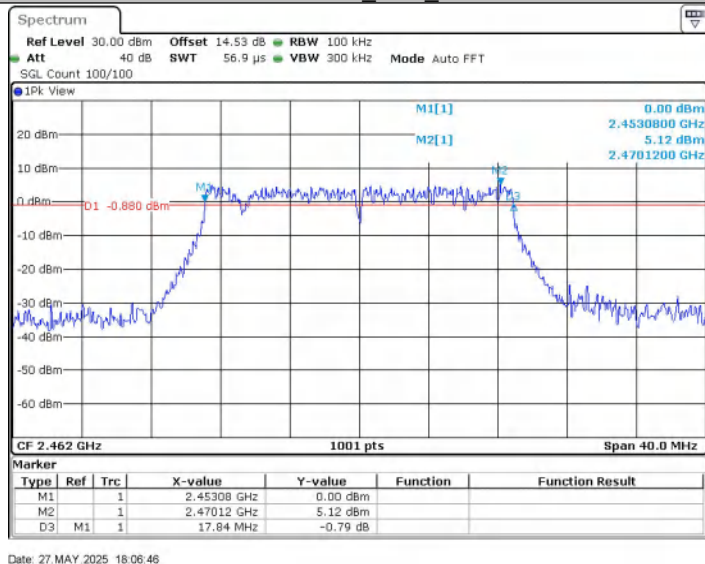


Date: 27 MAY 2025 17:59:48

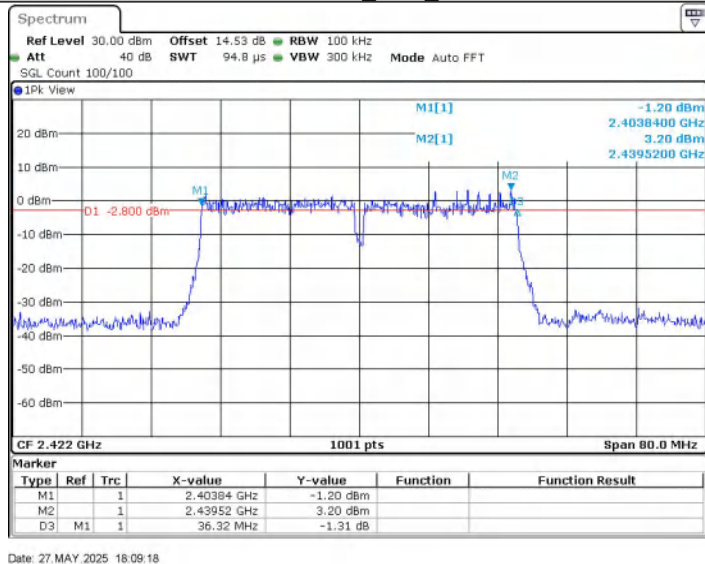
11N20MIMO_Ant1_2437



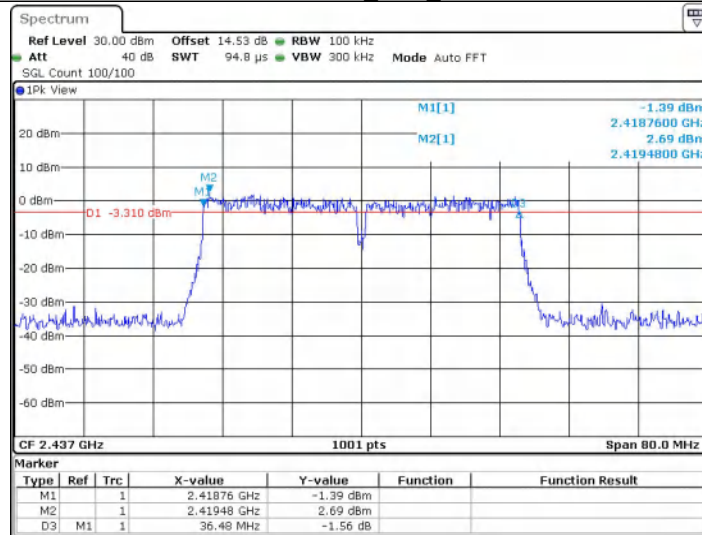
11N20MIMO_Ant1_2462



11N40MIMO_Ant1_2422

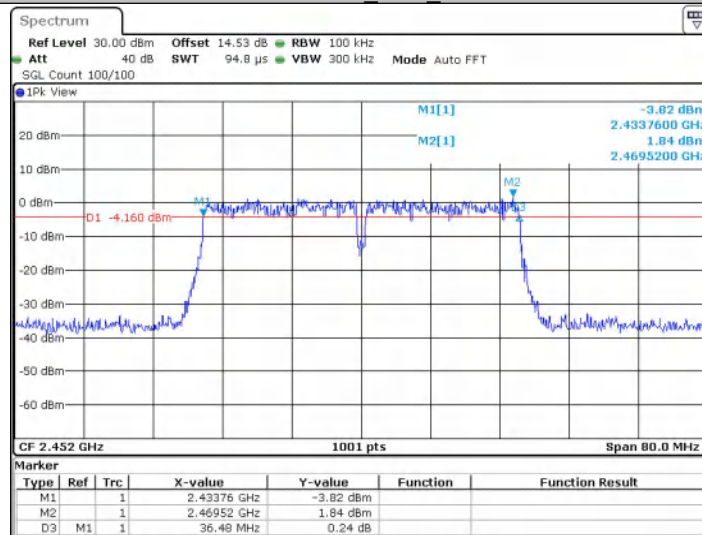


11N40MIMO_Ant1_2437



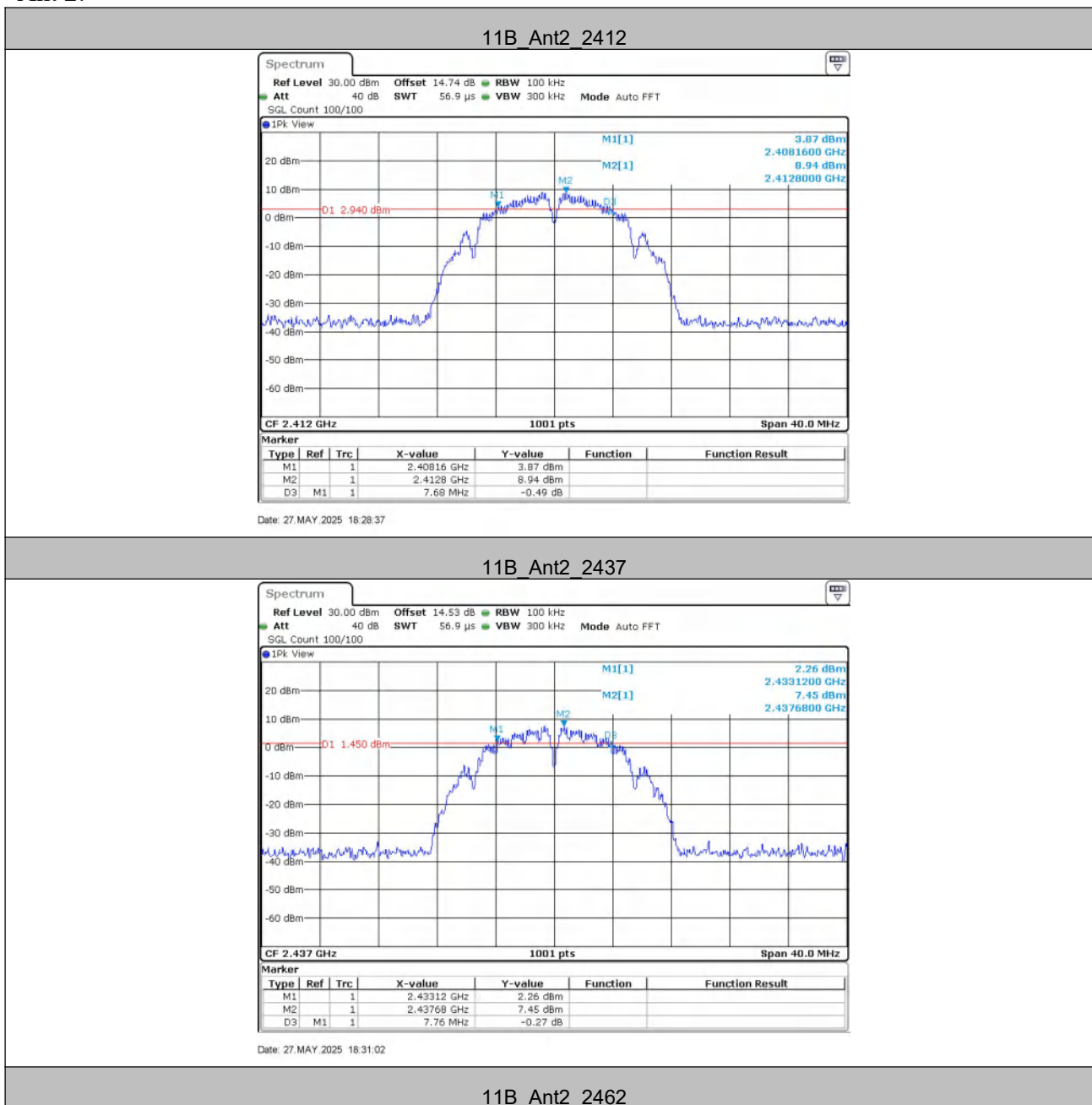
Date: 27 MAY 2025 18:12:25

11N40MIMO_Ant1_2452



Date: 27 MAY 2025 18:14:55

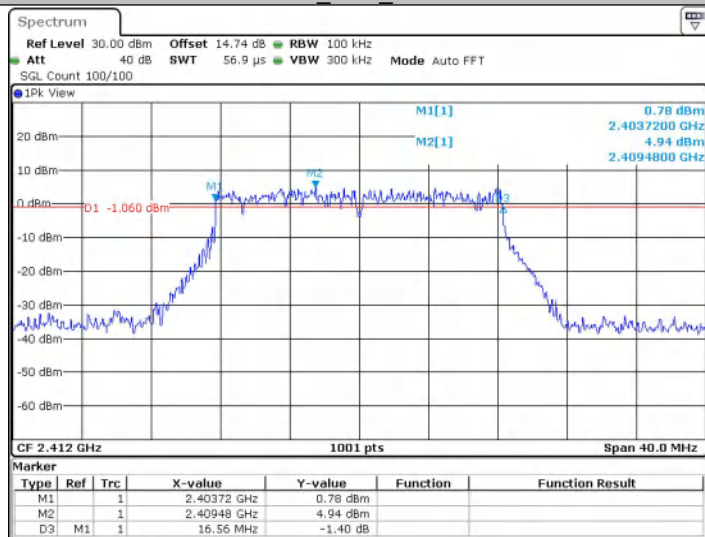
Ant 2:





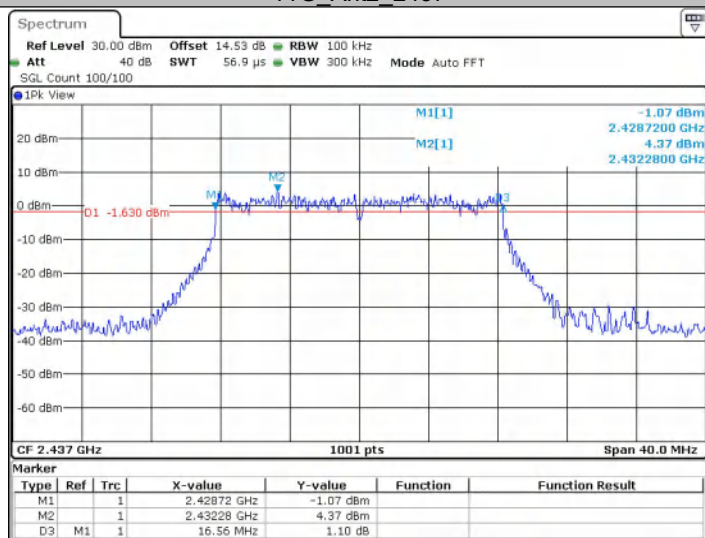
Date: 27.MAY.2025 18:33:47

11G_Ant2_2412



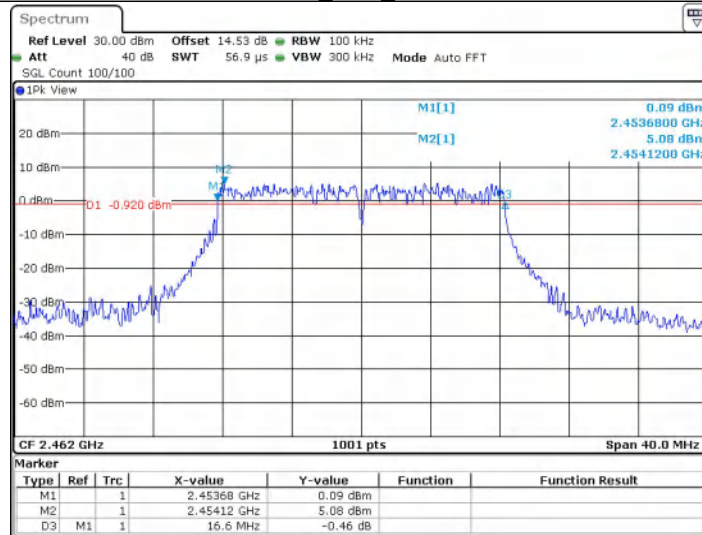
Date: 27.MAY.2025 18:39:21

11G_Ant2_2437



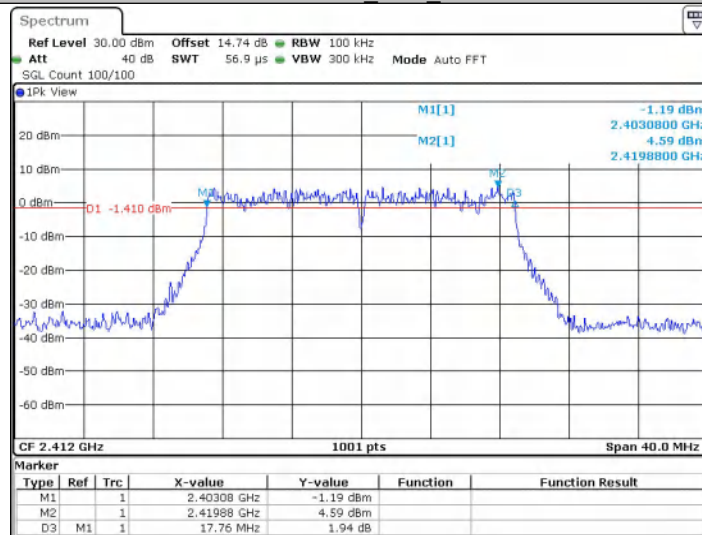
Date: 27.MAY.2025 18:41:38

11G_Ant2_2462



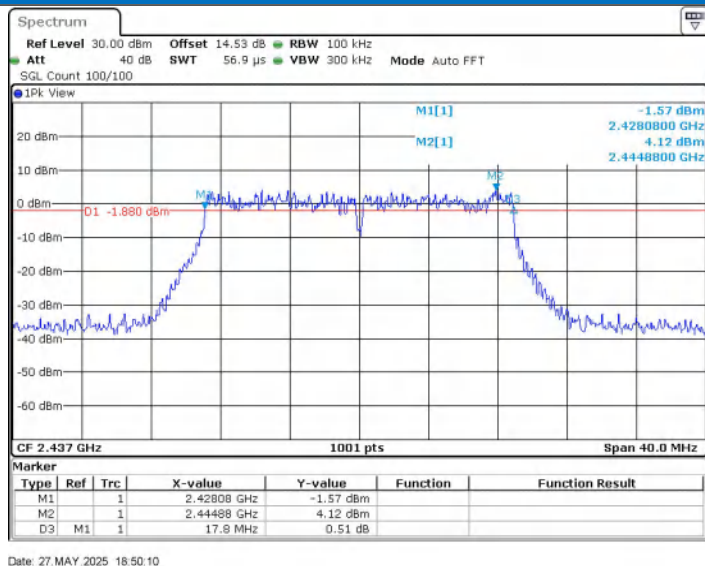
Date: 27 MAY 2025 18:43:46

11N20MIMO_Ant2_2412

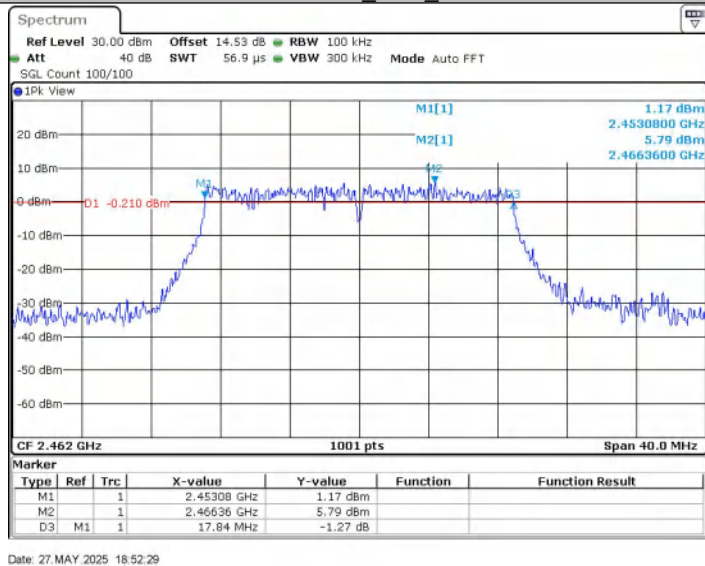


Date: 27 MAY 2025 18:47:35

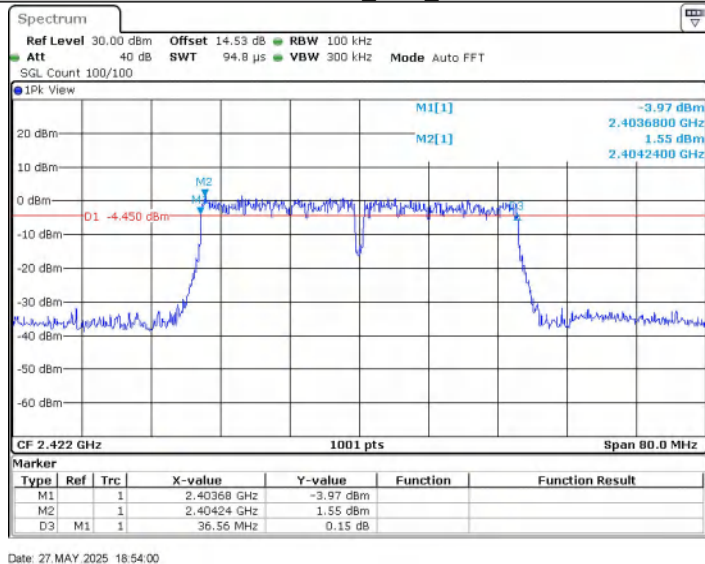
11N20MIMO_Ant2_2437



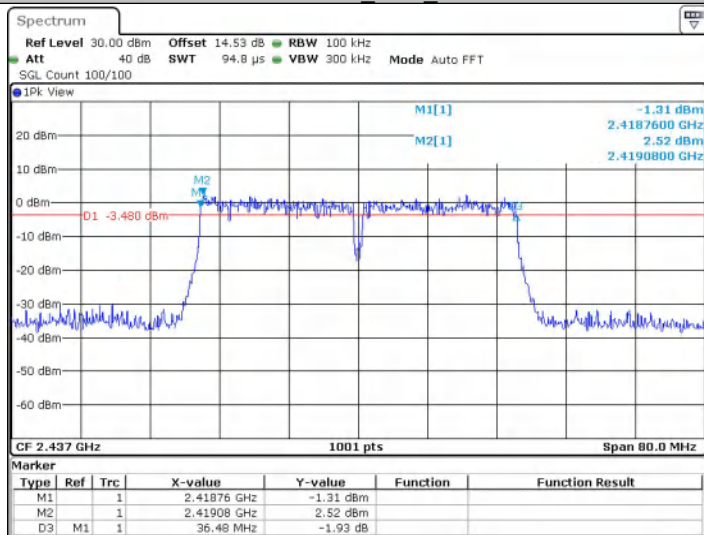
11N20MIMO_Ant2_2462



11N40MIMO_Ant2_2422

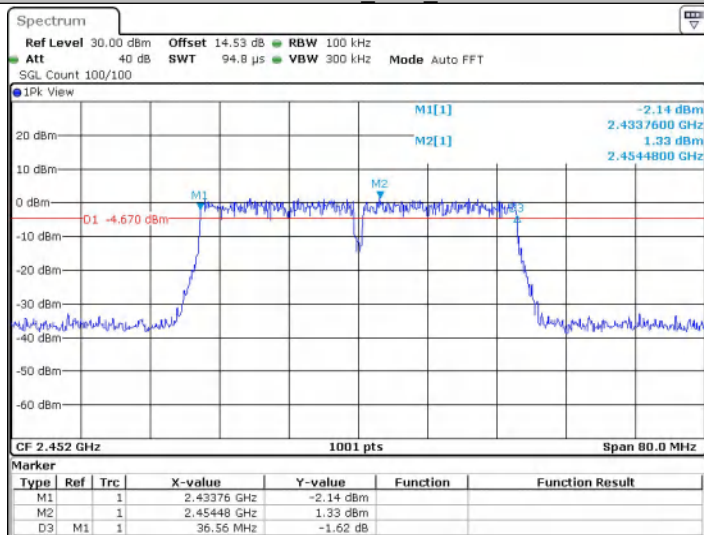


11N40MIMO_Ant2_2437



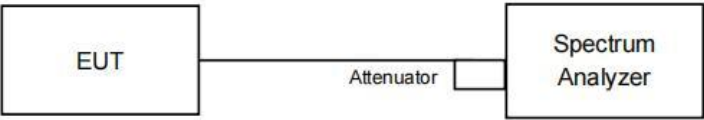
Date: 27 MAY 2025 18:58:09

11N40MIMO_Ant2_2452



Date: 27 MAY 2025 19:57:00

4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10: 2020
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	$\leq 8.00\text{dBm}/3\text{kHz}$
Test Results:	Pass

Test Result

Ant 1:

TestMode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	2412	-9.75	≤8.00	PASS
	2437	-9.99	≤8.00	PASS
	2462	-6.69	≤8.00	PASS
11G	2412	-12.24	≤8.00	PASS
	2437	-11.46	≤8.00	PASS
	2462	-14.23	≤8.00	PASS
11N20MIMO	2412	-11.99	≤8.00	PASS
	2437	-13.34	≤8.00	PASS
	2462	-12.03	≤8.00	PASS
11N40MIMO	2422	-15.54	≤8.00	PASS
	2437	-15.47	≤8.00	PASS
	2452	-15.74	≤8.00	PASS

Ant 2:

TestMode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	2412	-9.08	≤8.00	PASS
	2437	-9.74	≤8.00	PASS
	2462	-7.94	≤8.00	PASS
11G	2412	-12.23	≤8.00	PASS
	2437	-13.62	≤8.00	PASS
	2462	-10.43	≤8.00	PASS
11N20MIMO	2412	-12.20	≤8.00	PASS
	2437	-13.86	≤8.00	PASS
	2462	-11.66	≤8.00	PASS
11N40MIMO	2422	-15.89	≤8.00	PASS
	2437	-15.61	≤8.00	PASS
	2452	-15.32	≤8.00	PASS

Ant 1+ Ant 2:

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11N20MIMO	Ant1+Ant2	2412	-9.08	≤6.42	PASS
		2437	-10.58	≤6.42	PASS
		2462	-8.83	≤6.42	PASS
11N40MIMO	Ant1+Ant2	2422	-12.70	≤6.42	PASS
		2437	-12.53	≤6.42	PASS
		2452	-12.51	≤6.42	PASS

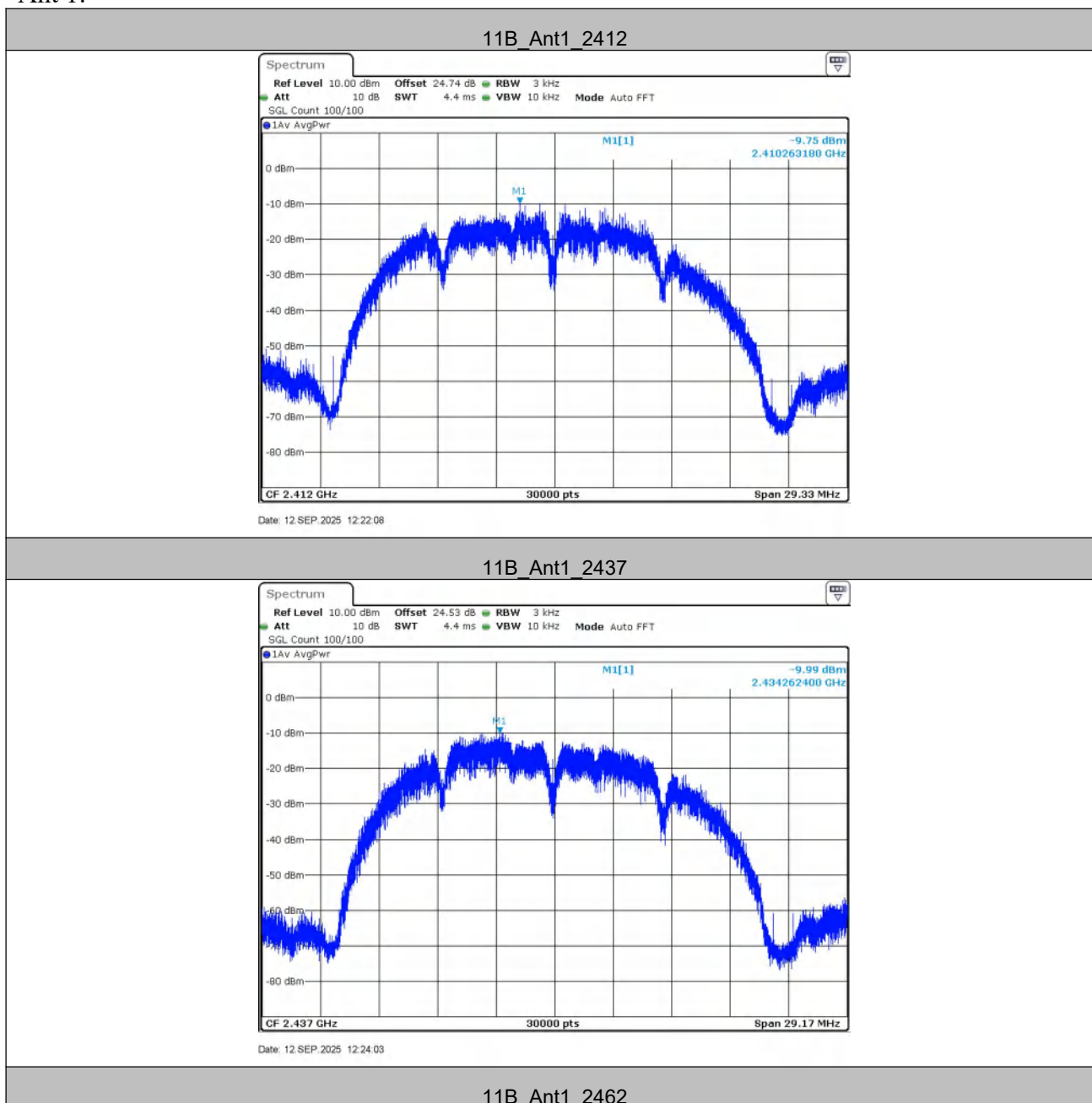
MIMO PSD limit=Conducted output power Limit-(directional gains-6dBi)
Directional gain:ANT 1 + ANT 2=7.58dBi

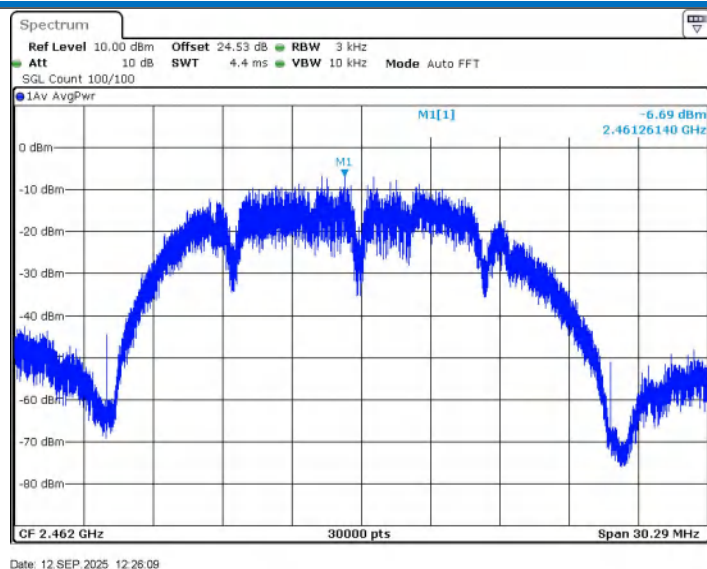
Note: Duty cycle correction factor details please see section 4.4.

When Duty cycle >98%, D.C.F is not required.

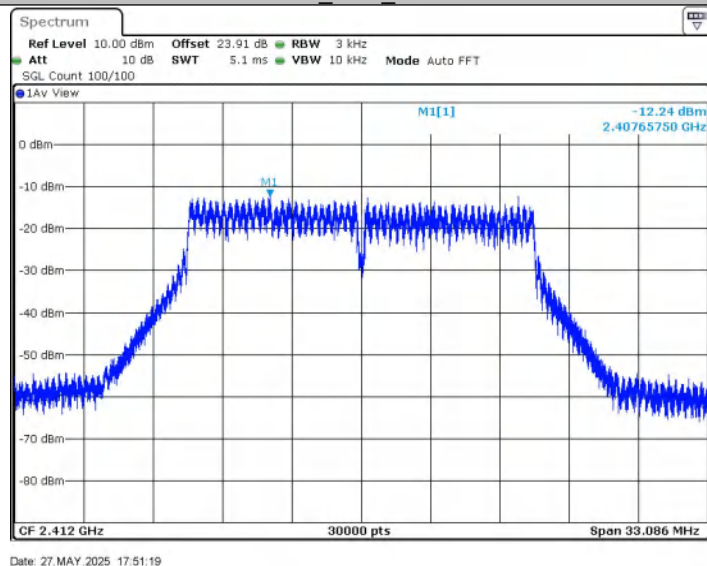
Test Graphs

Ant 1:

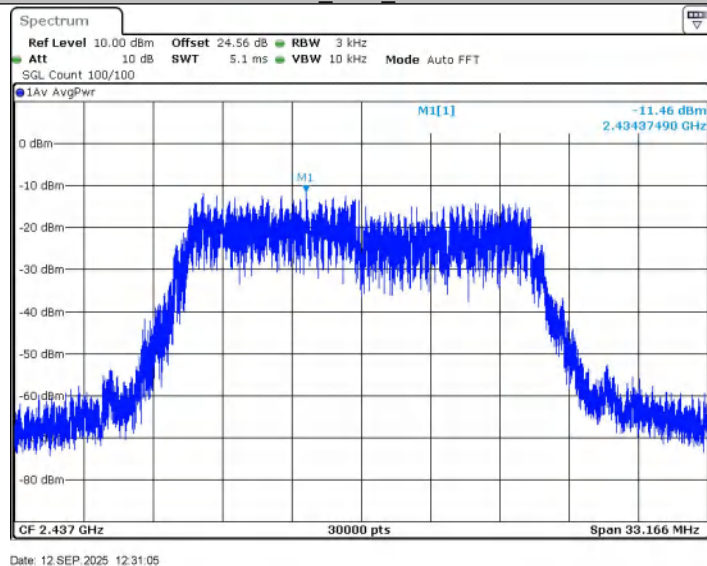




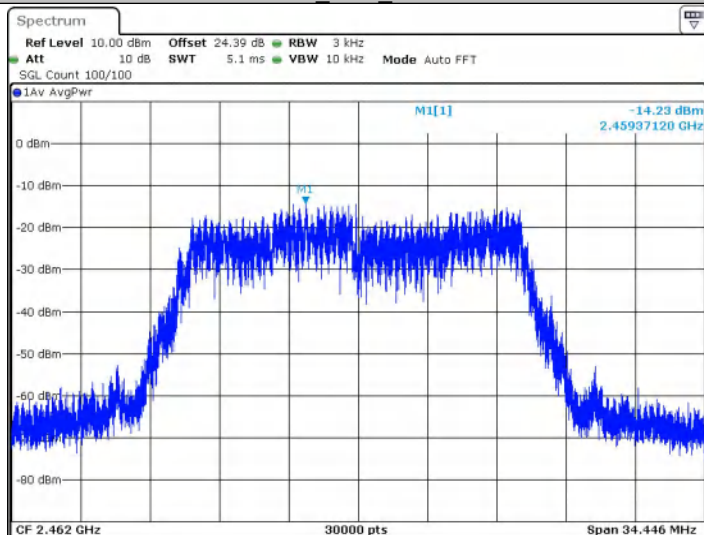
11G_Ant1_2412



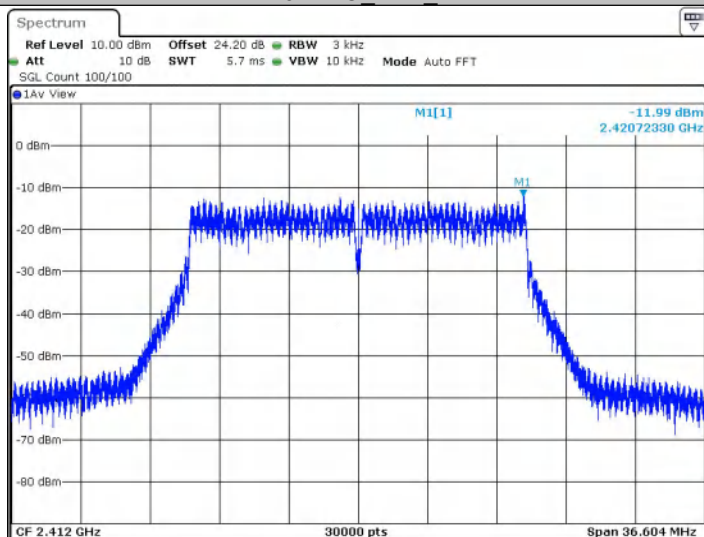
11G_Ant1_2437



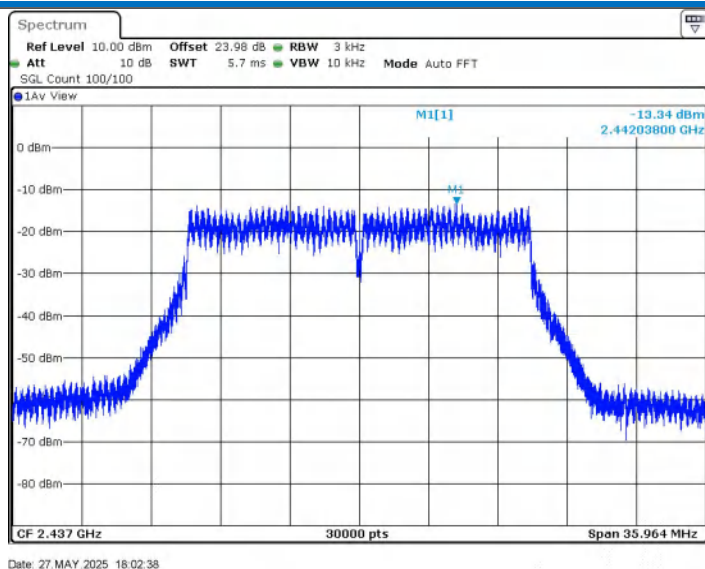
11G_Ant1_2462



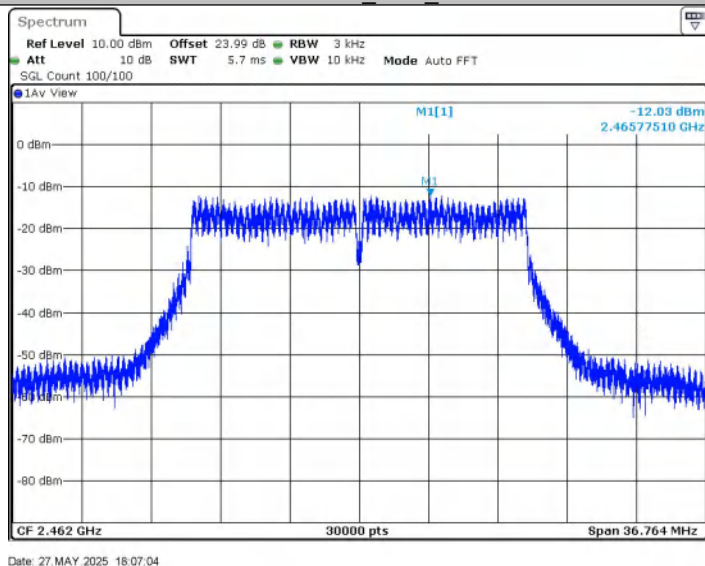
11N20MIMO_Ant1_2412



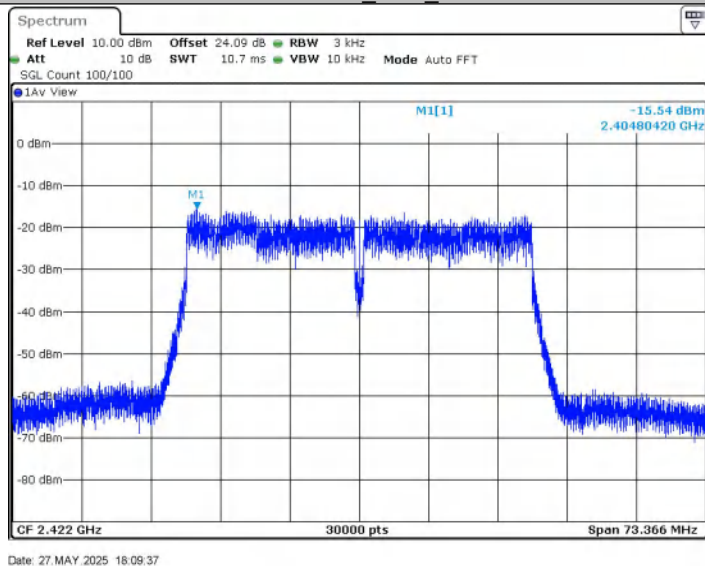
11N20MIMO_Ant1_2437



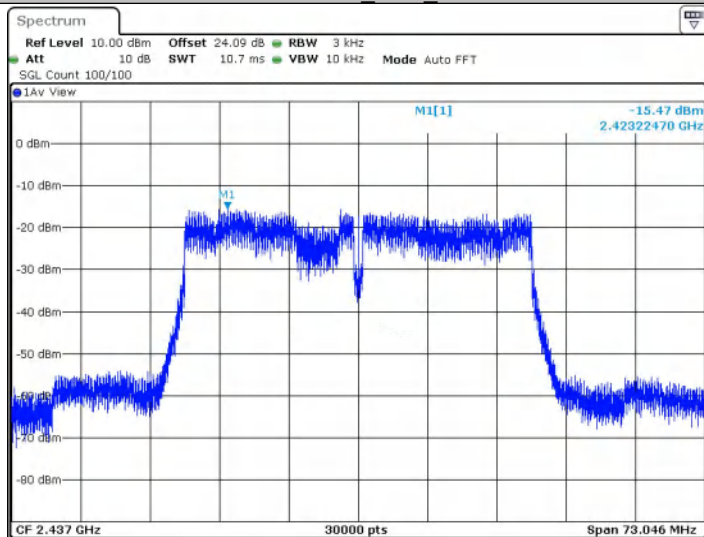
11N20MIMO_Ant1_2462



11N40MIMO_Ant1_2422

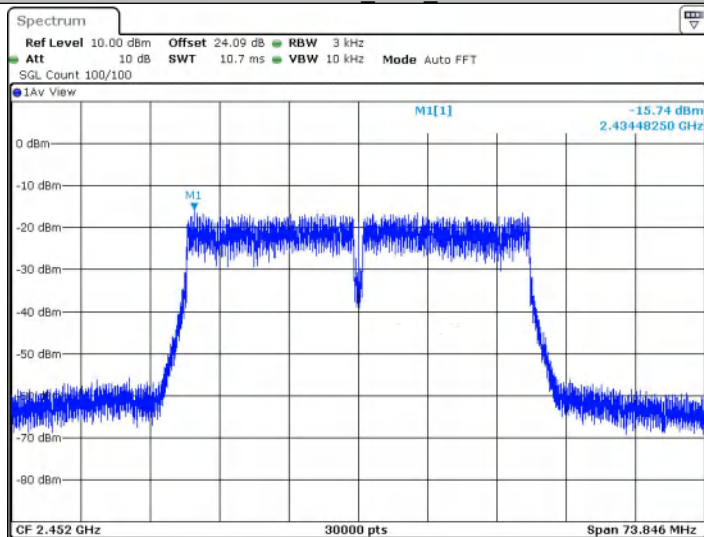


11N40MIMO_Ant1_2437



Date: 27.MAY 2025 18:12:44

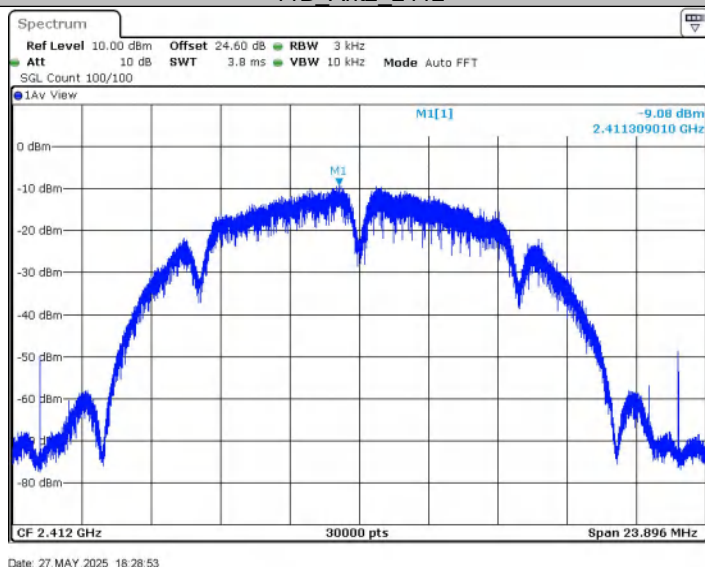
11N40MIMO_Ant1_2452



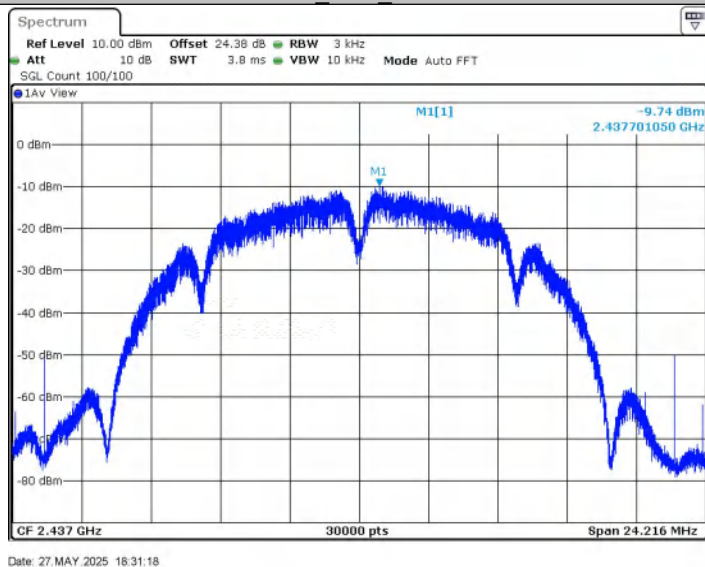
Date: 27.MAY 2025 18:15:15

Ant 2:

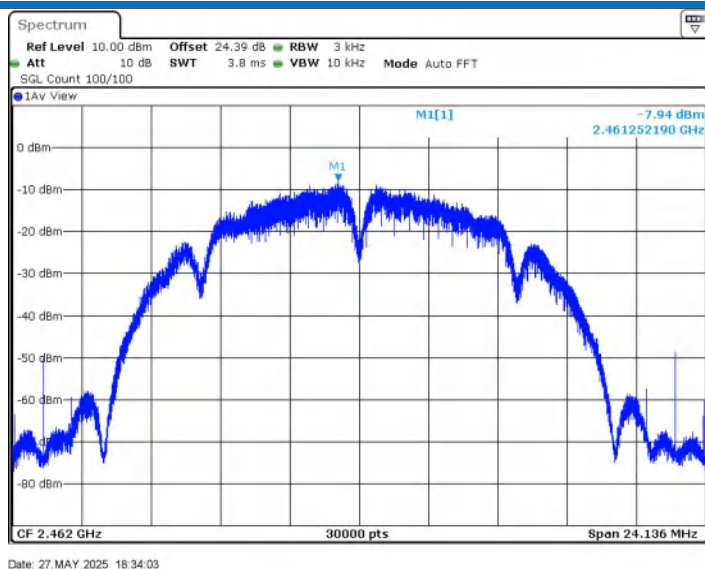
11B_Ant2_2412



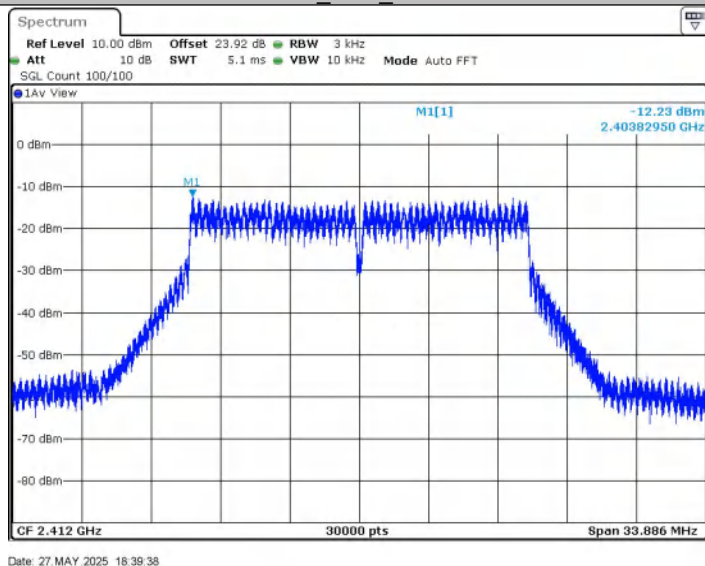
11B_Ant2_2437



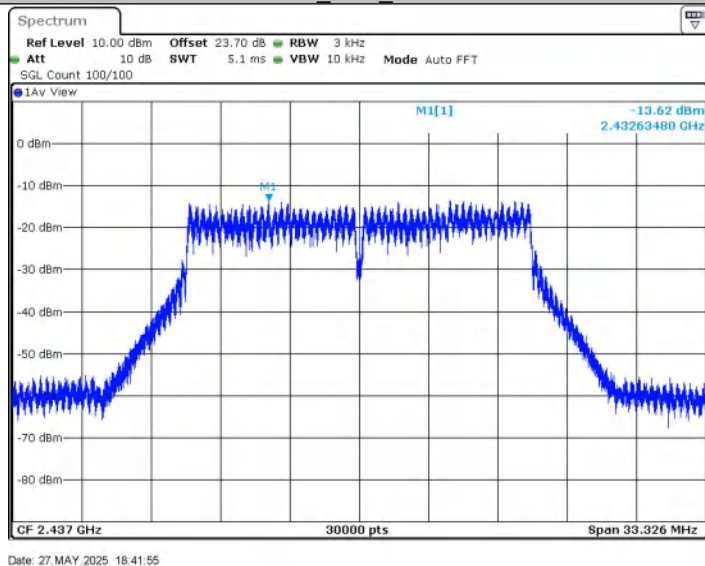
11B_Ant2_2462



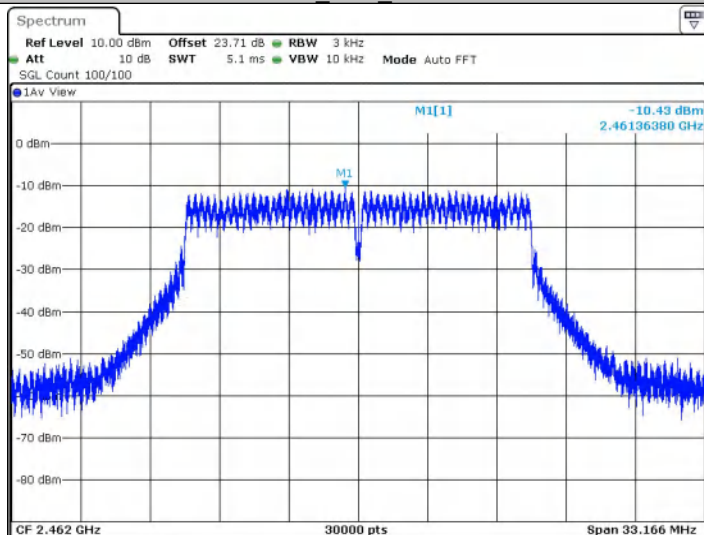
11G_Ant2_2412



11G_Ant2_2437

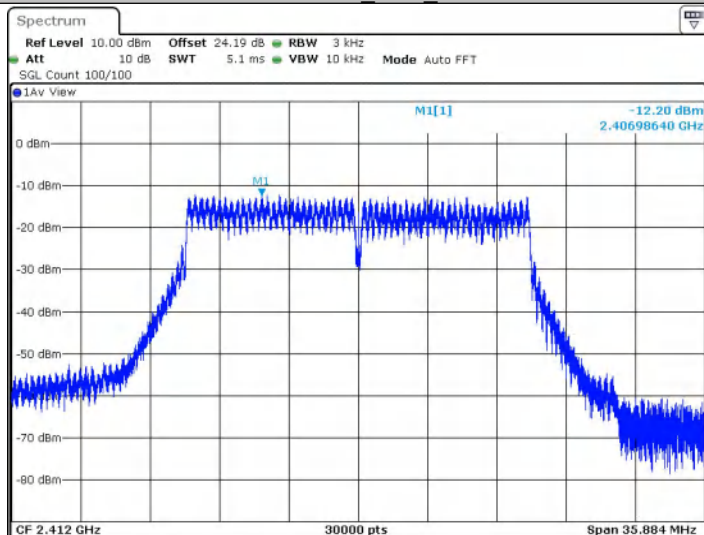


11G_Ant2_2462



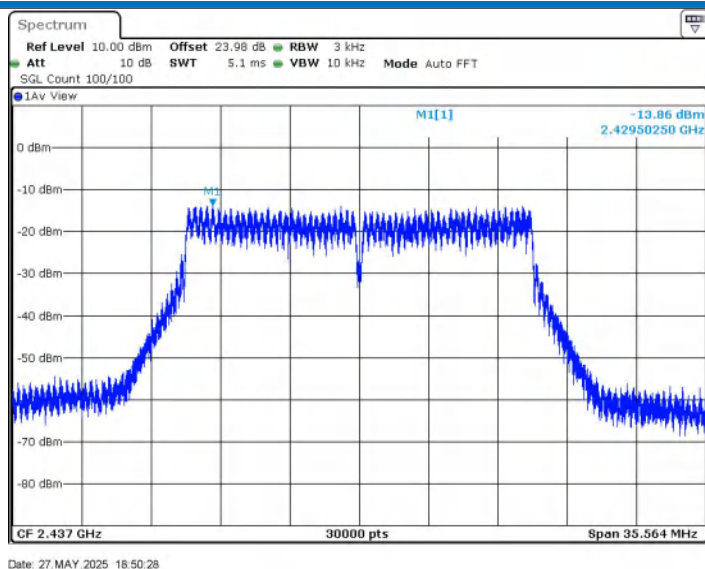
Date: 27 MAY 2025 18:44:03

11N20MIMO_Ant2_2412

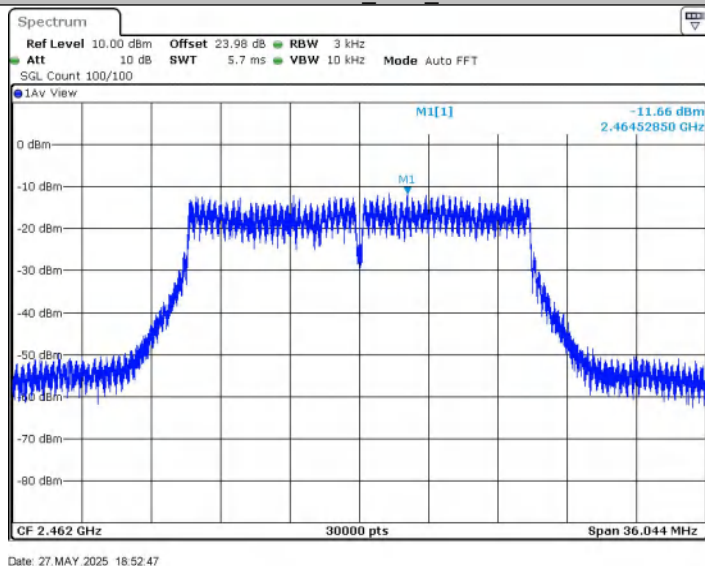


Date: 27 MAY 2025 18:47:51

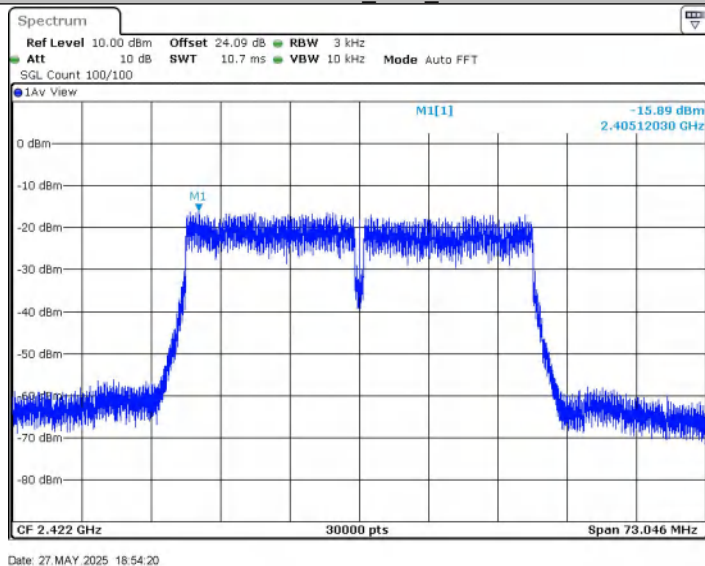
11N20MIMO_Ant2_2437



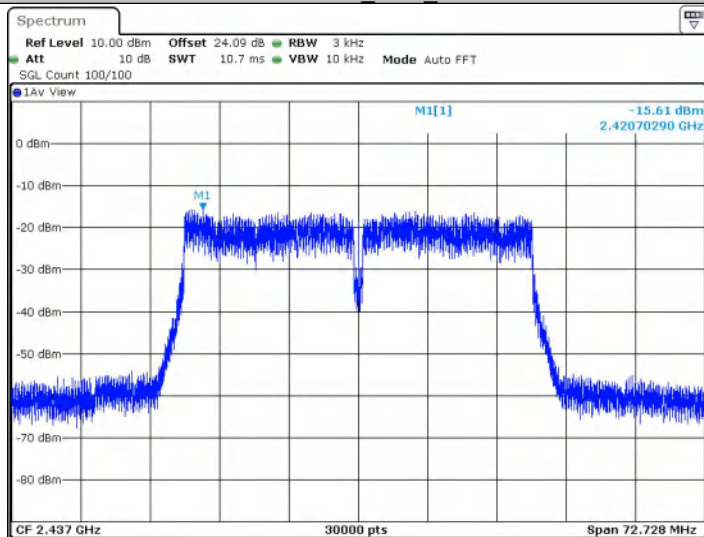
11N20MIMO_Ant2_2462



11N40MIMO_Ant2_2422

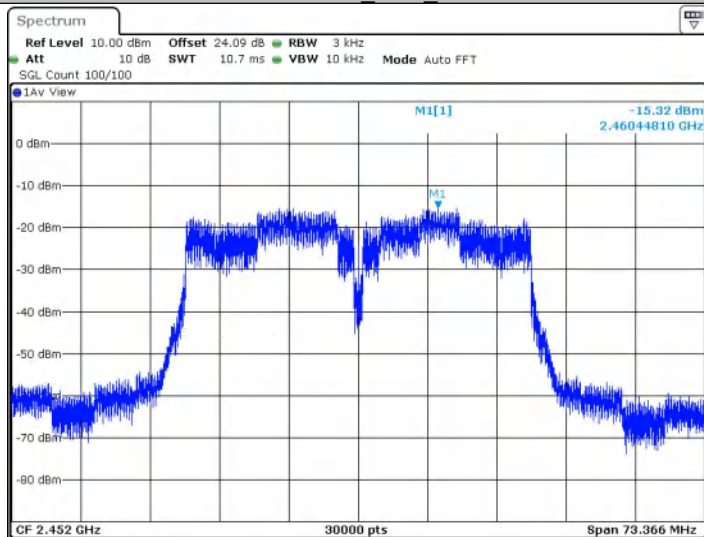


11N40MIMO_Ant2_2437



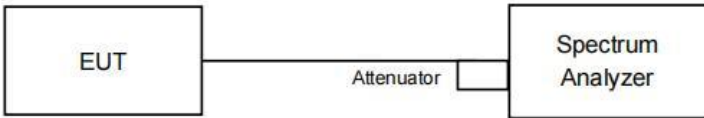
Date: 27 MAY 2025 18:58:28

11N40MIMO_Ant2_2452



Date: 27 MAY 2025 19:57:20

4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2020
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 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.
Test Results:	Pass

Test Result

Ant 1:

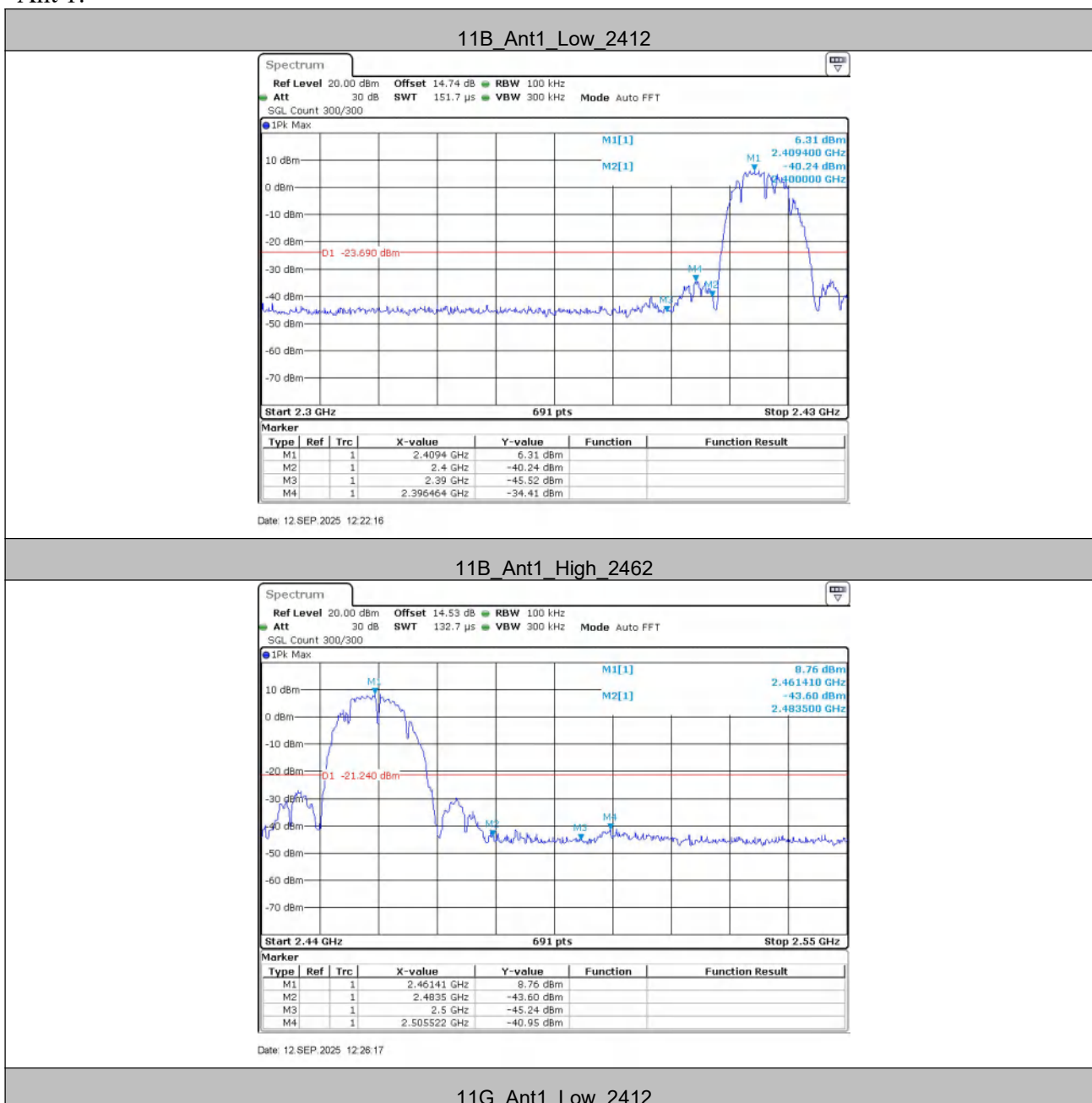
TestMode	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Low	2412	6.31	-34.41	≤-23.69	PASS
	High	2462	8.76	-40.95	≤-21.24	PASS
11G	Low	2412	5.50	-30.22	≤-24.5	PASS
	High	2462	-0.18	-40.43	≤-30.18	PASS
11N20MIMO	Low	2412	4.64	-30	≤-25.36	PASS
	High	2462	7.18	-34.01	≤-22.82	PASS
11N40MIMO	Low	2422	4.48	-35.47	≤-25.52	PASS
	High	2452	2.59	-32.38	≤-27.41	PASS

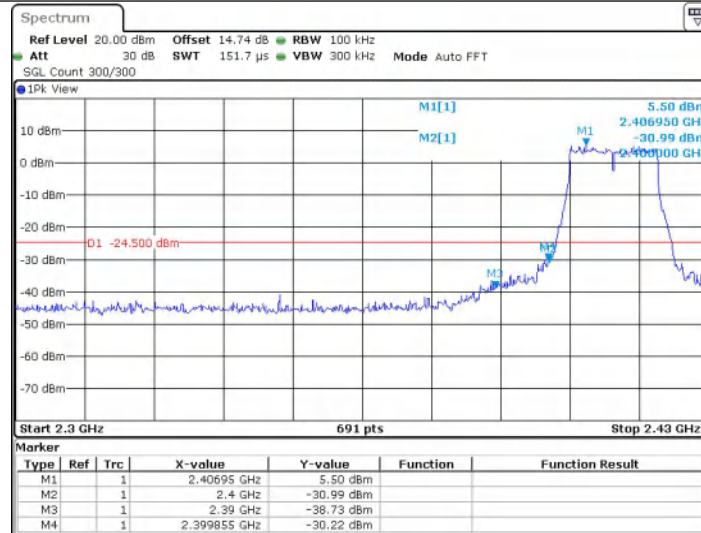
Ant 2:

TestMode	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Low	2412	10.13	-40.95	≤-19.87	PASS
	High	2462	9.84	-41.9	≤-20.16	PASS
11G	Low	2412	5.55	-32.64	≤-24.45	PASS
	High	2462	5.76	-36.89	≤-24.24	PASS
11N20MIMO	Low	2412	4.83	-27.53	≤-25.17	PASS
	High	2462	7.28	-34.03	≤-22.72	PASS
11N40MIMO	Low	2422	1.59	-35.34	≤-28.41	PASS
	High	2452	1.87	-36.24	≤-28.13	PASS

4.7.1 Test Graphs

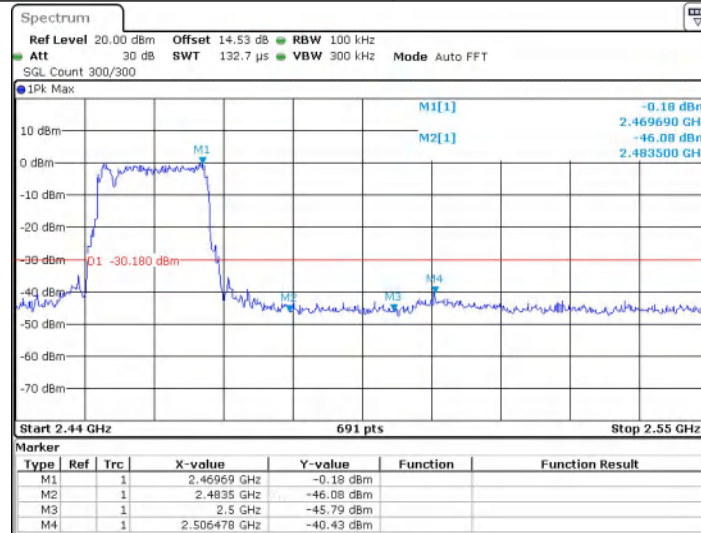
Ant 1:





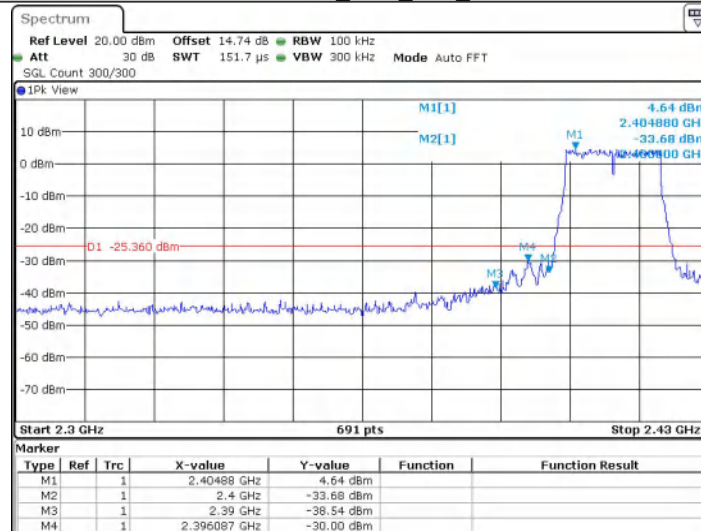
Date: 27 MAY 2025 17:51:28

11G_Ant1_High_2462



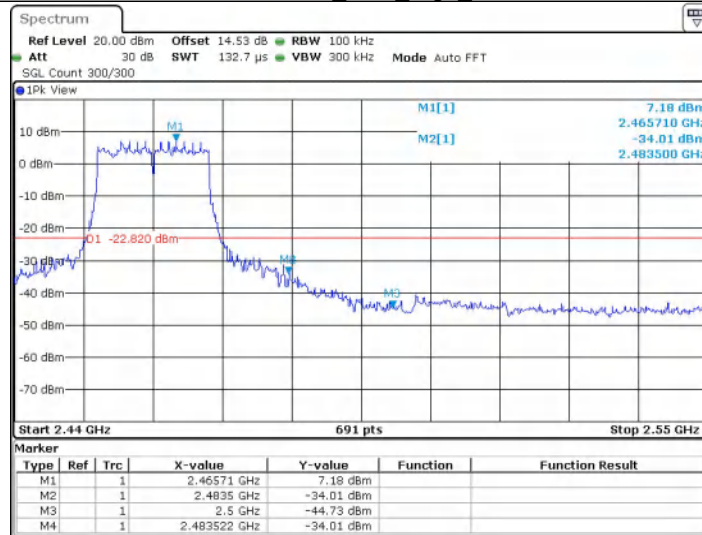
Date: 12 SEP 2025 14:50:43

11N20MIMO_Ant1_Low_2412



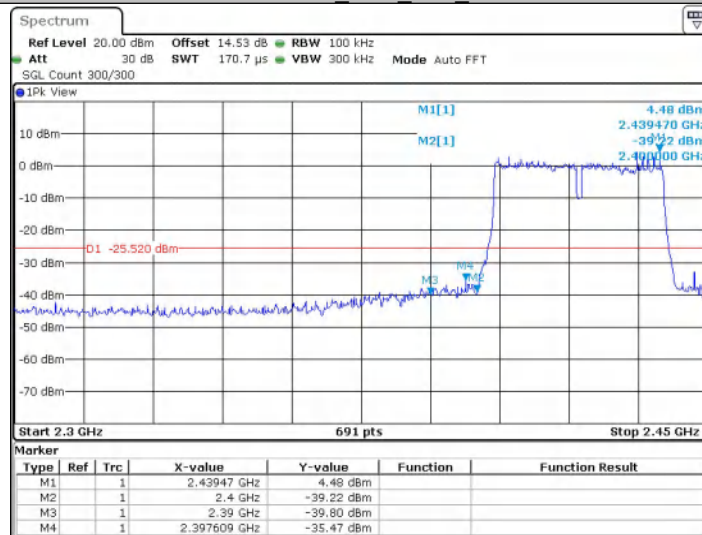
Date: 27 MAY 2025 18:00:13

11N20MIMO_Ant1_High_2462



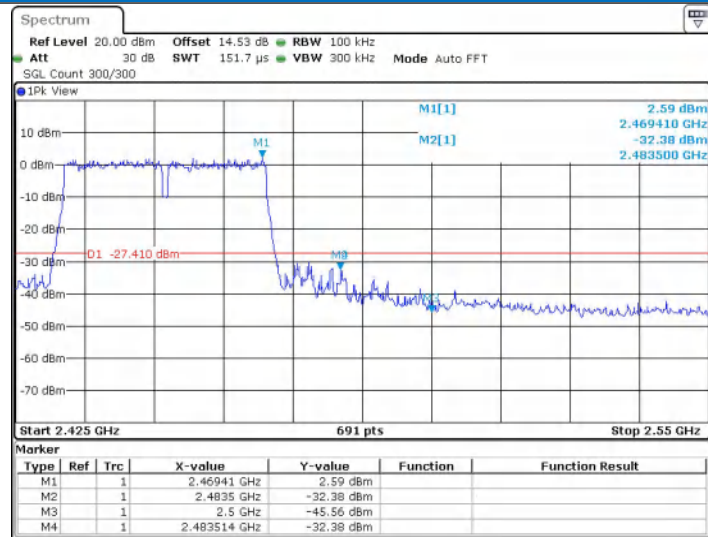
Date: 27 MAY 2025 18:07:11

11N40MIMO_Ant1_Low_2422



Date: 27 MAY 2025 18:09:46

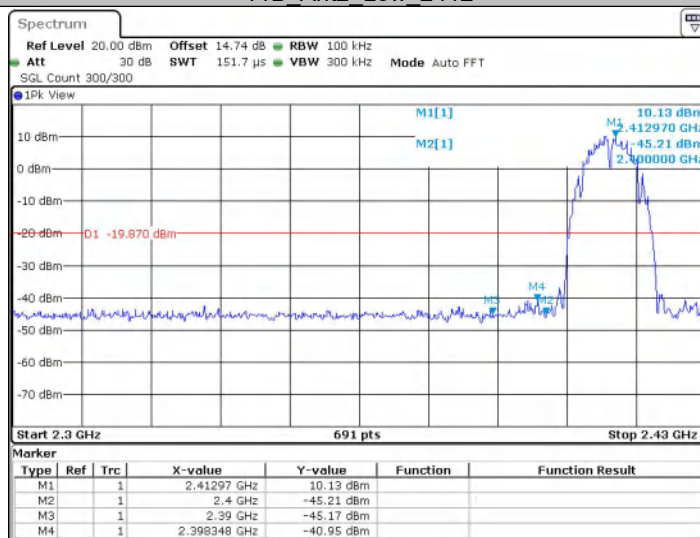
11N40MIMO_Ant1_High_2452



Date: 27.MAY.2025 18:15:23

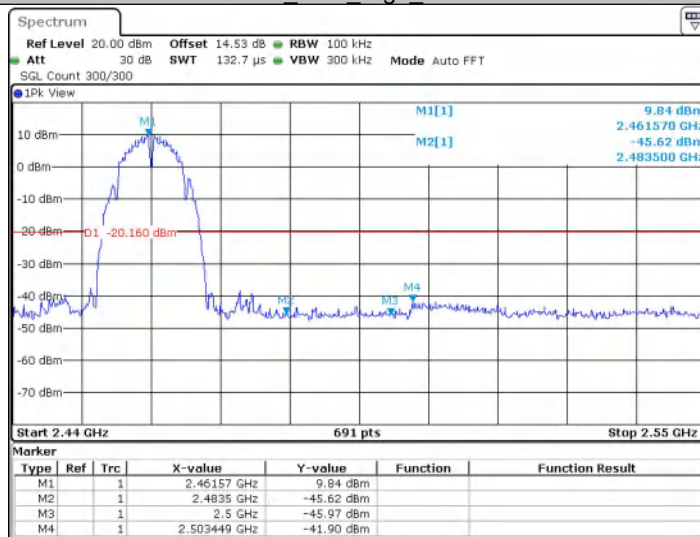
Ant 2:

11B_Ant2_Low_2412



Date: 27 MAY 2025 18:29:02

11B_Ant2_High_2462



Date: 27 MAY 2025 18:34:11

11G_Ant2_Low_2412



Date: 27 MAY 2025 18:39:46

11G_Ant2_High_2462



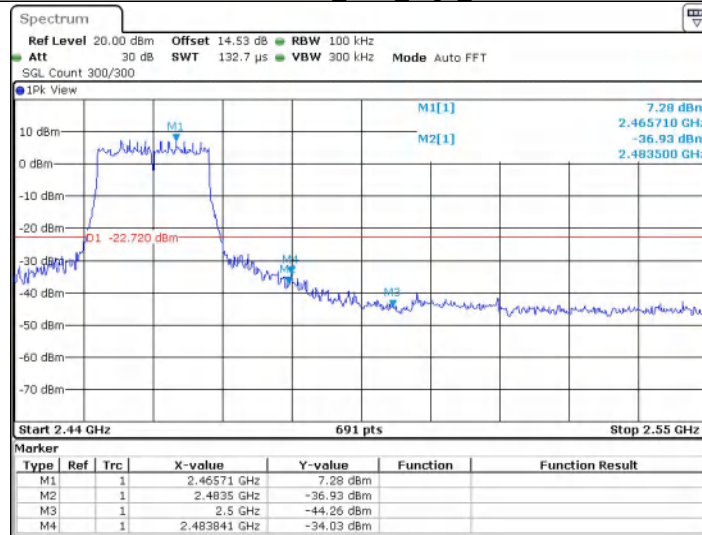
Date: 27 MAY 2025 18:44:11

11N20MIMO_Ant2_Low_2412



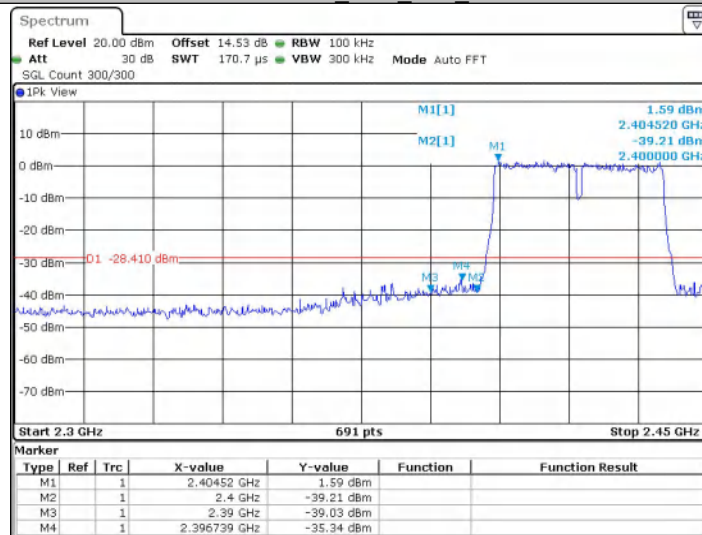
Date: 27 MAY 2025 18:48:00

11N20MIMO_Ant2_High_2462



Date: 27 MAY 2025 18:52:54

11N40MIMO_Ant2_Low_2422



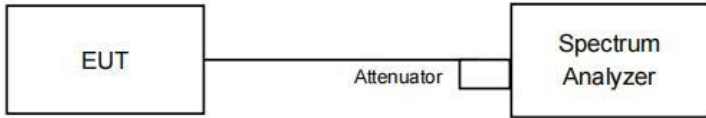
Date: 27 MAY 2025 18:54:29

11N40MIMO_Ant2_High_2452



Date: 27.MAY.2025 19:57:29

4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2020
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 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.
Test Results:	Pass

Test Result

Ant 1:

TestMode	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	Reference	7.89	7.89	---	PASS
		30~1000	7.89	-51.34	≤-22.11	PASS
		1000~26500	7.89	-47.63	≤-22.11	PASS
	2437	Reference	8.11	8.11	---	PASS
		30~1000	8.11	-50.64	≤-21.89	PASS
		1000~26500	8.11	-47.89	≤-21.89	PASS
	2462	Reference	9.43	9.43	---	PASS
		30~1000	9.43	-51.49	≤-20.57	PASS
		1000~26500	9.43	-47.44	≤-20.57	PASS
11G	2412	Reference	8.18	8.18	---	PASS
		30~1000	8.18	-50.42	≤-21.82	PASS
		1000~26500	8.18	-47.28	≤-21.82	PASS
	2437	Reference	5.01	5.01	---	PASS
		30~1000	5.01	-51.38	≤-24.99	PASS
		1000~26500	5.01	-46.84	≤-24.99	PASS
	2462	Reference	3.45	3.45	---	PASS
		30~1000	3.45	-51.39	≤-26.55	PASS
		1000~26500	3.45	-47.97	≤-26.55	PASS
11N20MIMO	2412	Reference	8.16	8.16	---	PASS
		30~1000	8.16	-50.41	≤-21.84	PASS
		1000~26500	8.16	-47.19	≤-21.84	PASS
	2437	Reference	7.03	7.03	---	PASS
		30~1000	7.03	-51.38	≤-22.97	PASS
		1000~26500	7.03	-46.93	≤-22.97	PASS
	2462	Reference	8.87	8.87	---	PASS
		30~1000	8.87	-51.77	≤-21.13	PASS
		1000~26500	8.87	-47.6	≤-21.13	PASS
11N40MIMO	2422	Reference	4.86	4.86	---	PASS
		30~1000	4.86	-51.23	≤-25.14	PASS
		1000~26500	4.86	-48.14	≤-25.14	PASS
	2437	Reference	4.80	4.80	---	PASS
		30~1000	4.80	-51.6	≤-25.2	PASS
		1000~26500	4.80	-47.76	≤-25.2	PASS

	2452	Reference	5.26	5.26	---	PASS
		30~1000	5.26	-51.24	≤-24.74	PASS
		1000~26500	5.26	-47.79	≤-24.74	PASS

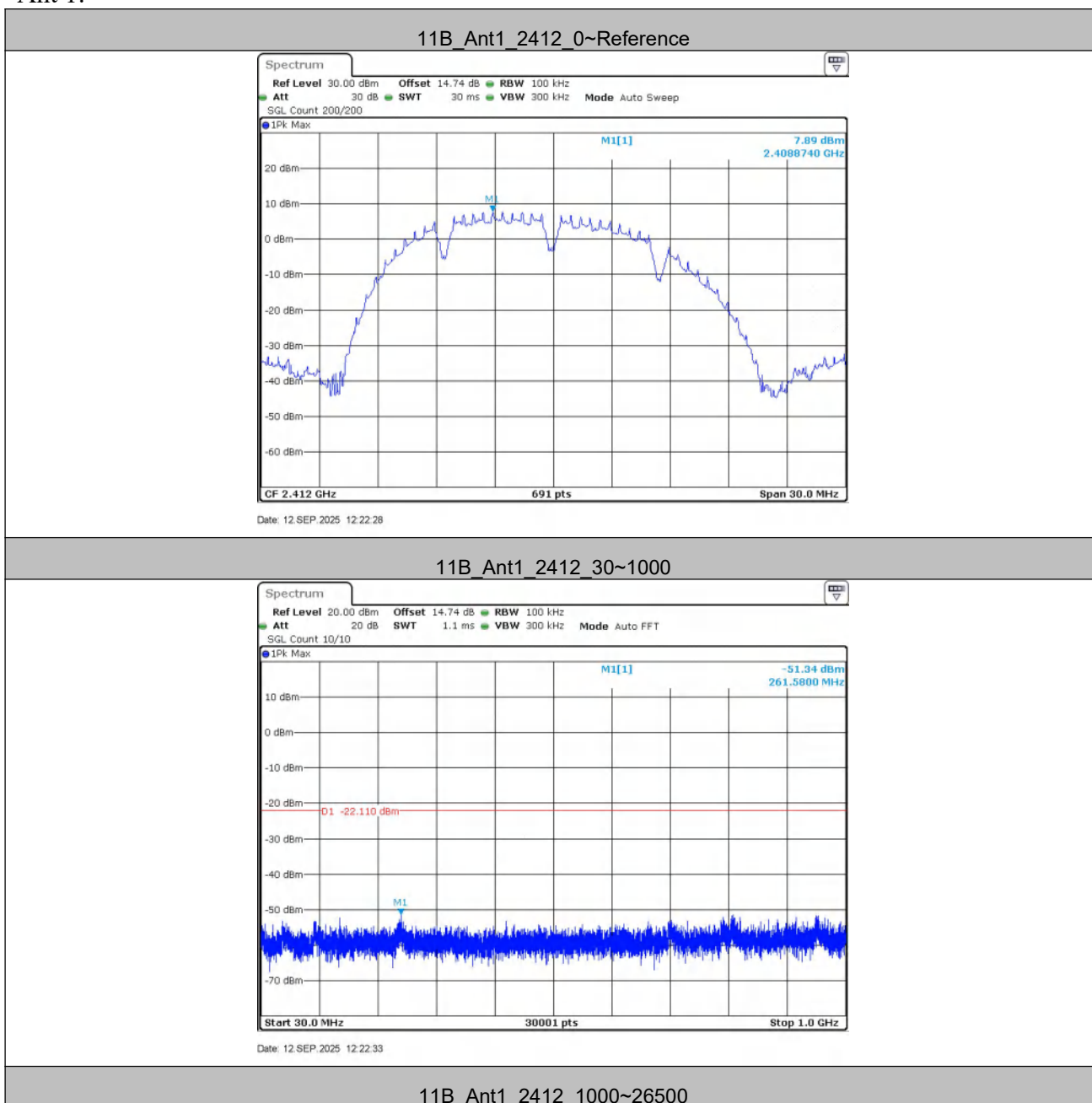
Ant 2:

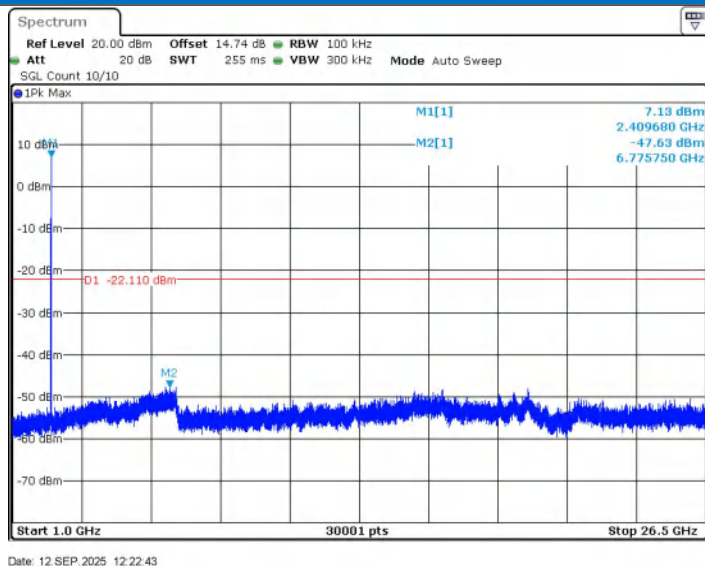
TestMode	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	Reference	11.28	11.28	---	PASS
		30~1000	11.28	-51.14	≤-18.72	PASS
		1000~26500	11.28	-47.5	≤-18.72	PASS
	2437	Reference	10.39	10.39	---	PASS
		30~1000	10.39	-51.63	≤-19.61	PASS
		1000~26500	10.39	-47.88	≤-19.61	PASS
	2462	Reference	11.39	11.39	---	PASS
		30~1000	11.39	-50.88	≤-18.61	PASS
		1000~26500	11.39	-47.95	≤-18.61	PASS
11G	2412	Reference	7.21	7.21	---	PASS
		30~1000	7.21	-50.85	≤-22.79	PASS
		1000~26500	7.21	-47.59	≤-22.79	PASS
	2437	Reference	7.32	7.32	---	PASS
		30~1000	7.32	-51.41	≤-22.68	PASS
		1000~26500	7.32	-48.25	≤-22.68	PASS
	2462	Reference	8.86	8.86	---	PASS
		30~1000	8.86	-51.61	≤-21.14	PASS
		1000~26500	8.86	-46.86	≤-21.14	PASS
11N20MIMO	2412	Reference	8.05	8.05	---	PASS
		30~1000	8.05	-51.57	≤-21.95	PASS
		1000~26500	8.05	-47.21	≤-21.95	PASS
	2437	Reference	7.32	7.32	---	PASS
		30~1000	7.32	-50.9	≤-22.68	PASS
		1000~26500	7.32	-47.91	≤-22.68	PASS
	2462	Reference	8.70	8.70	---	PASS
		30~1000	8.70	-50.95	≤-21.3	PASS
		1000~26500	8.70	-48.29	≤-21.3	PASS
11N40MIMO	2422	Reference	5.00	5.00	---	PASS
		30~1000	5.00	-51.29	≤-25	PASS
		1000~26500	5.00	-47.04	≤-25	PASS
	2437	Reference	5.79	5.79	---	PASS
		30~1000	5.79	-51.17	≤-24.21	PASS
		1000~26500	5.79	-47.48	≤-24.21	PASS
	2452	Reference	5.36	5.36	---	PASS

		30~1000	5.36	-51.23	≤-24.64	PASS
		1000~26500	5.36	-47.56	≤-24.64	PASS

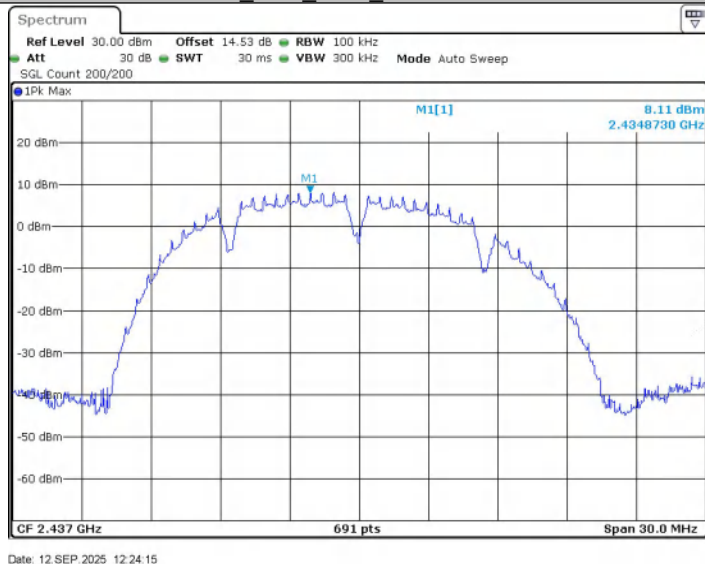
Test Graphs

Ant 1:

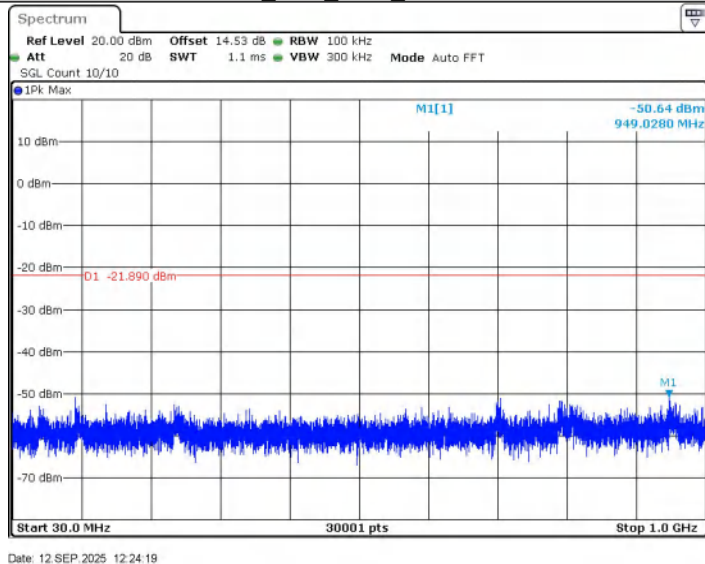




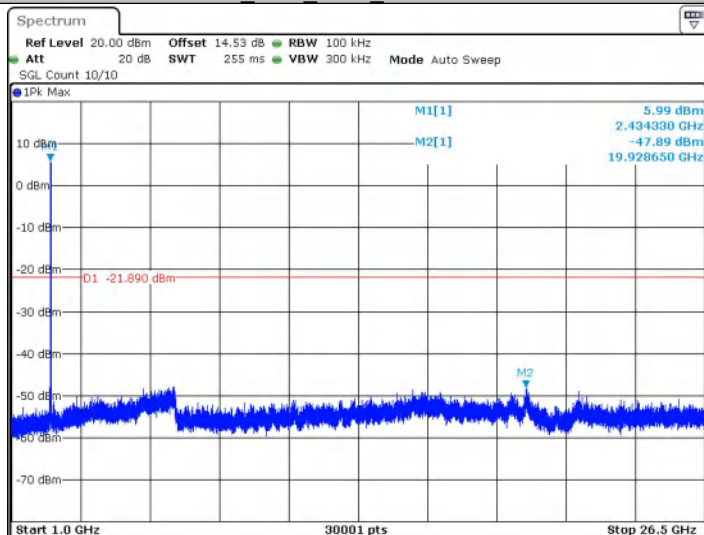
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

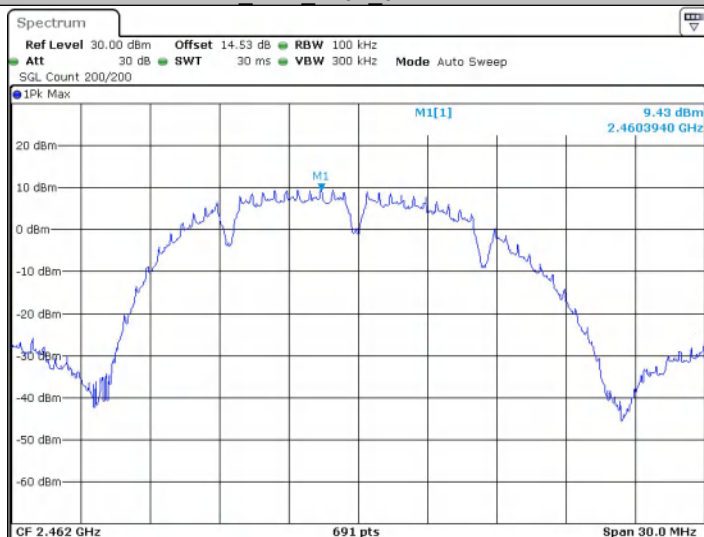


11B_Ant1_2437_1000~26500



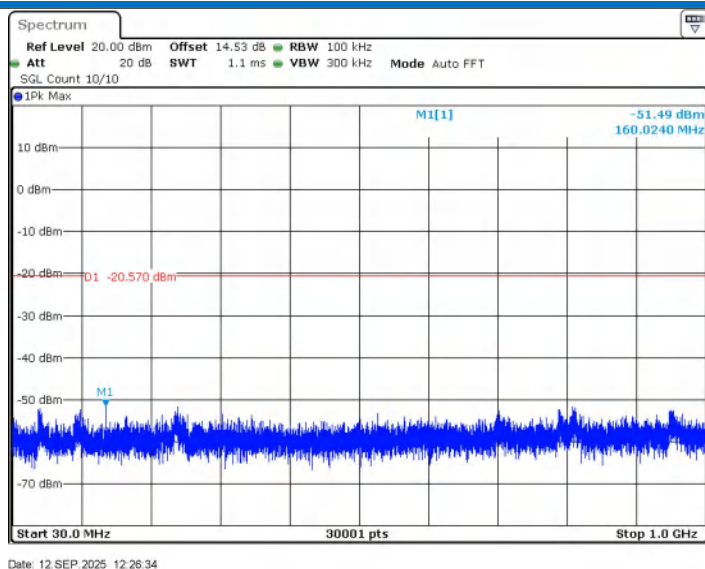
Date: 12 SEP 2025 12:24:30

11B_Ant1_2462_0~Reference

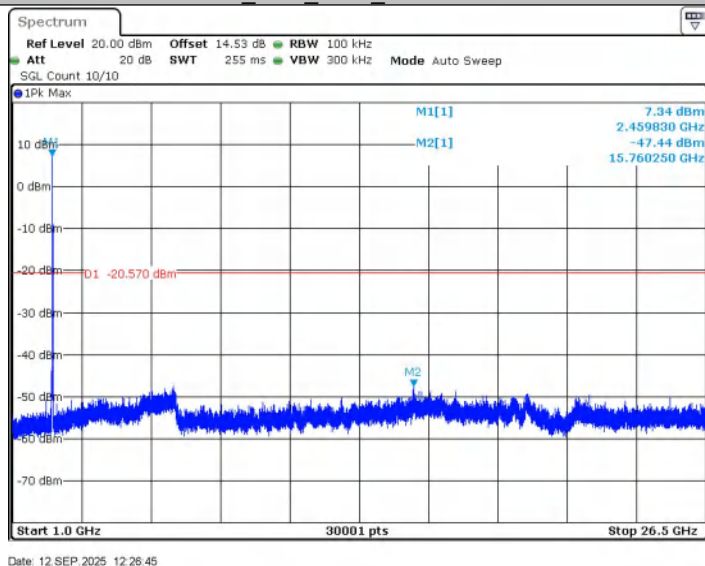


Date: 12 SEP 2025 12:28:30

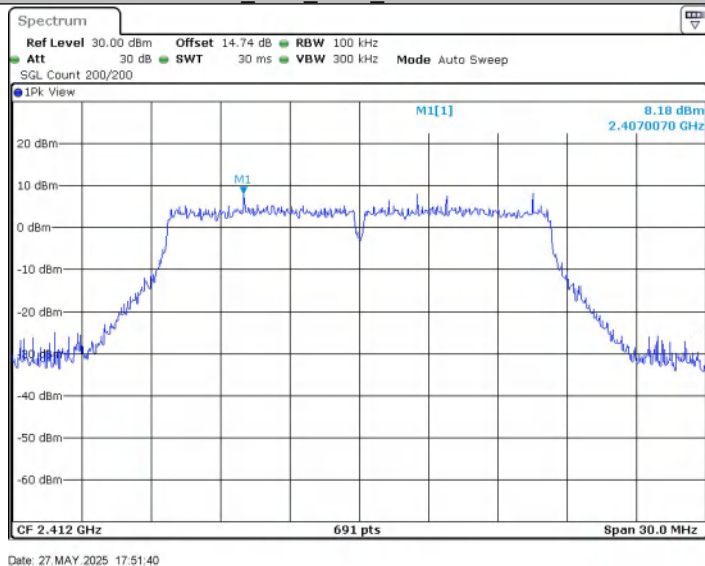
11B_Ant1_2462_30~1000



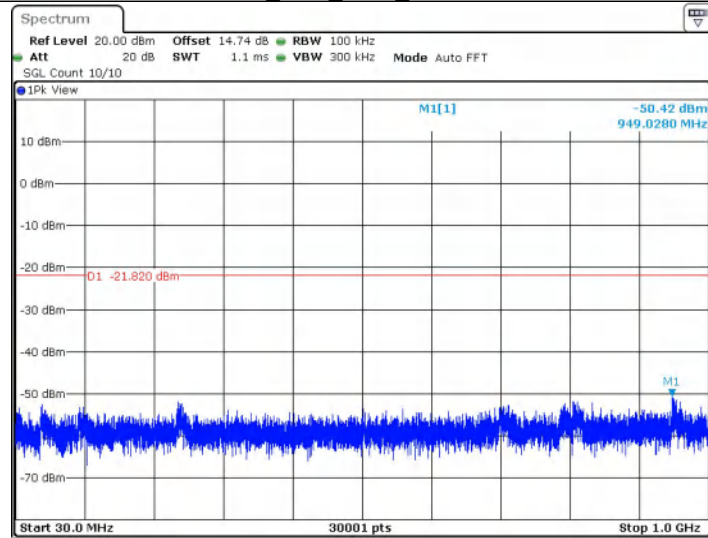
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference

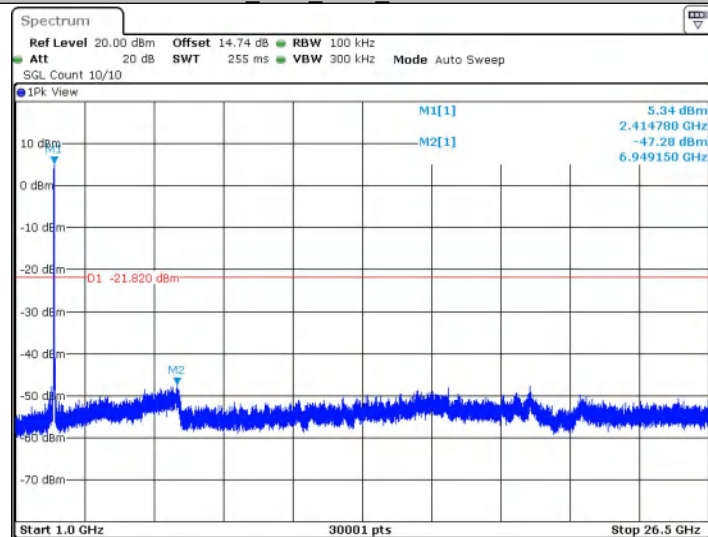


11G_Ant1_2412_30~1000



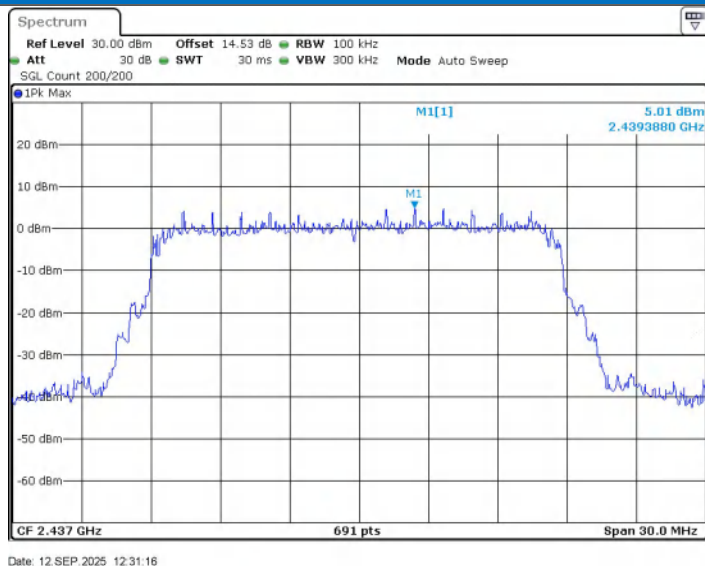
Date: 27 MAY 2025 17:51:44

11G_Ant1_2412_1000~26500

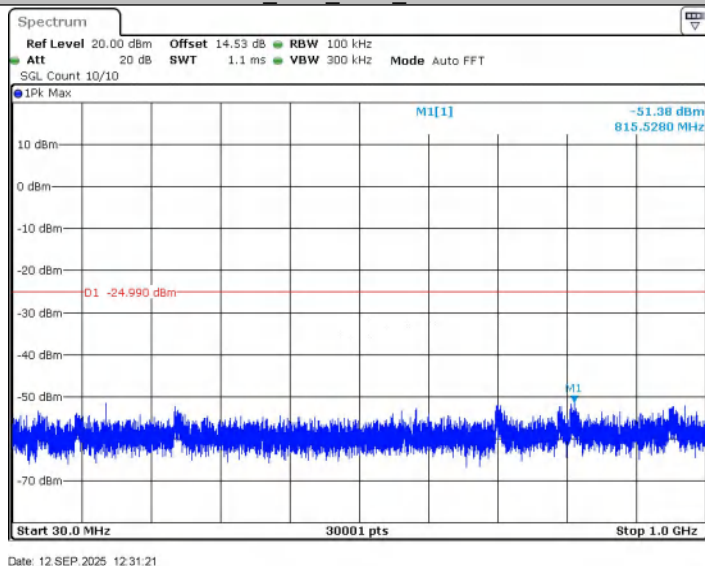


Date: 27 MAY 2025 17:51:55

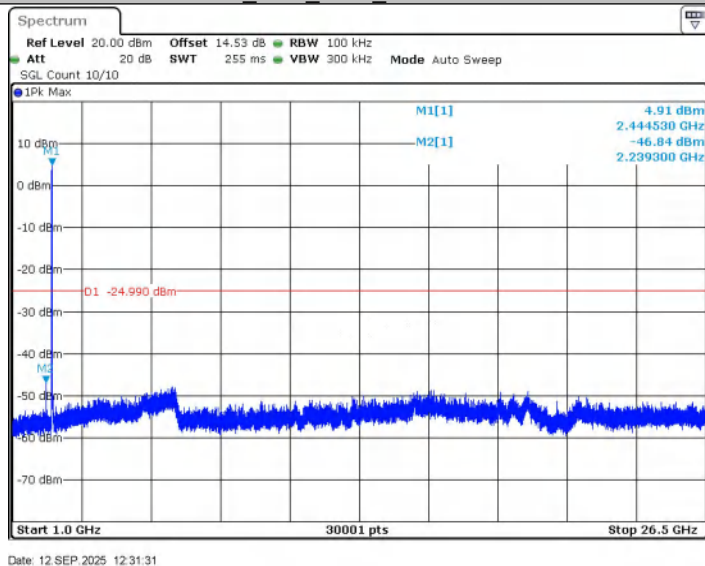
11G_Ant1_2437_0~Reference



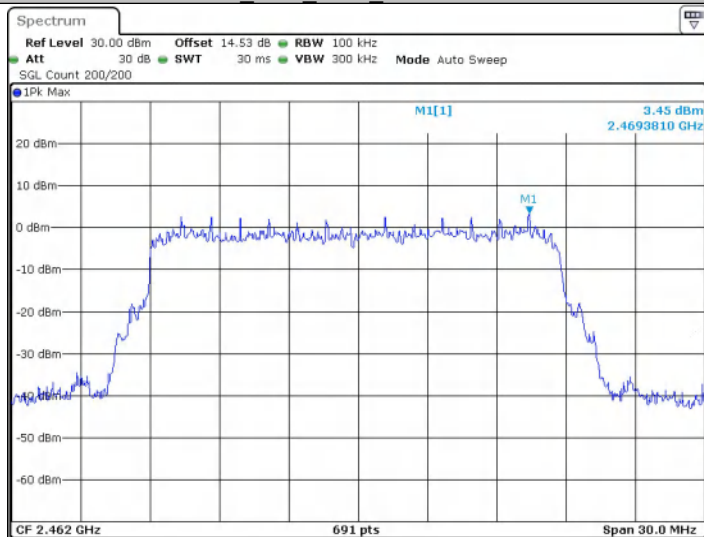
11G_Ant1_2437_30~1000



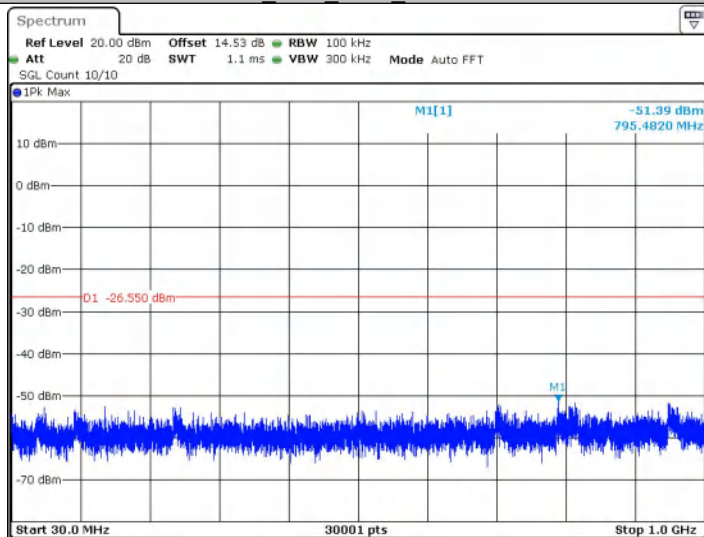
11G_Ant1_2437_1000~26500



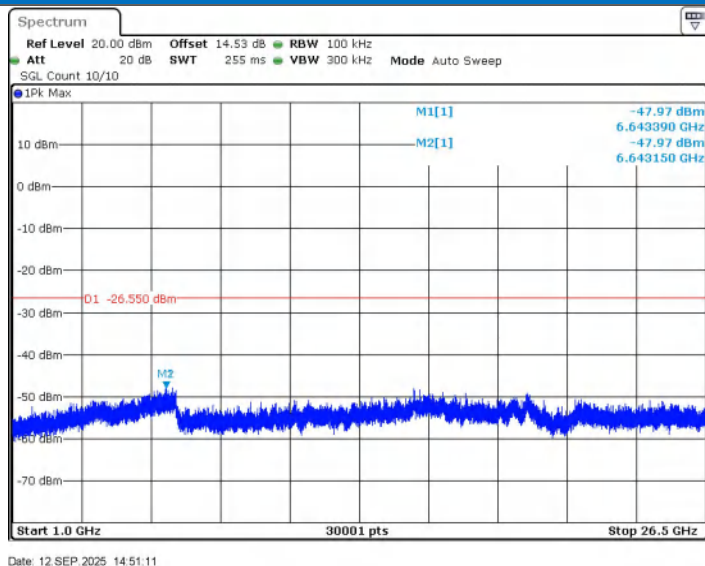
11G_Ant1_2462_0~Reference



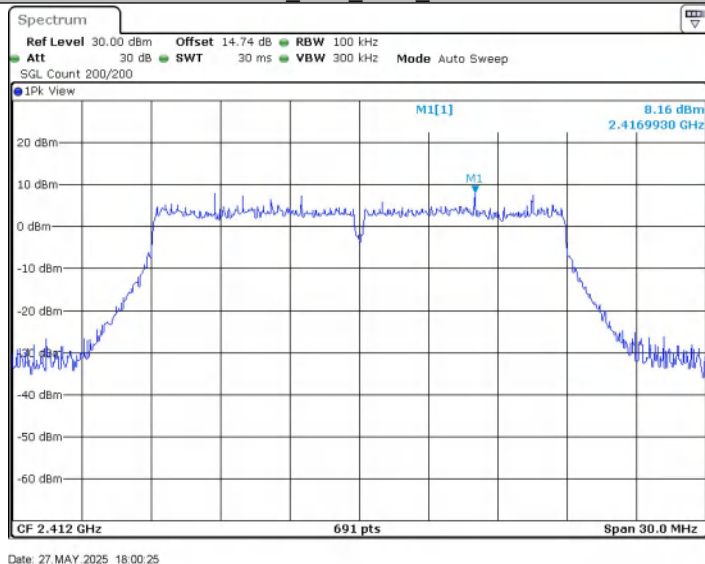
11G_Ant1_2462_30~1000



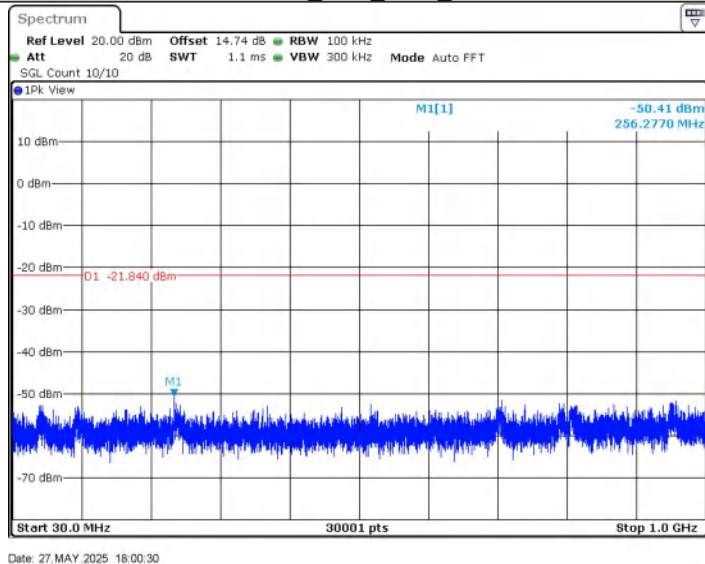
11G_Ant1_2462_1000~26500



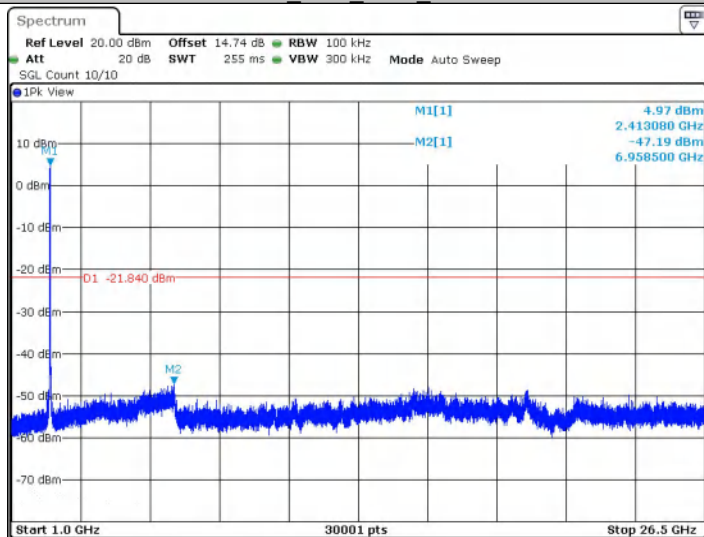
11N20MIMO_Ant1_2412_0~Reference



11N20MIMO_Ant1_2412_30~1000

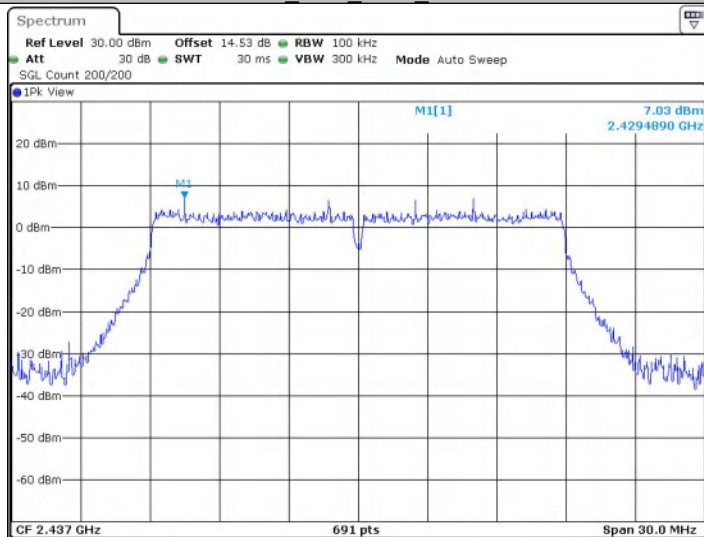


11N20MIMO_Ant1_2412_1000~26500



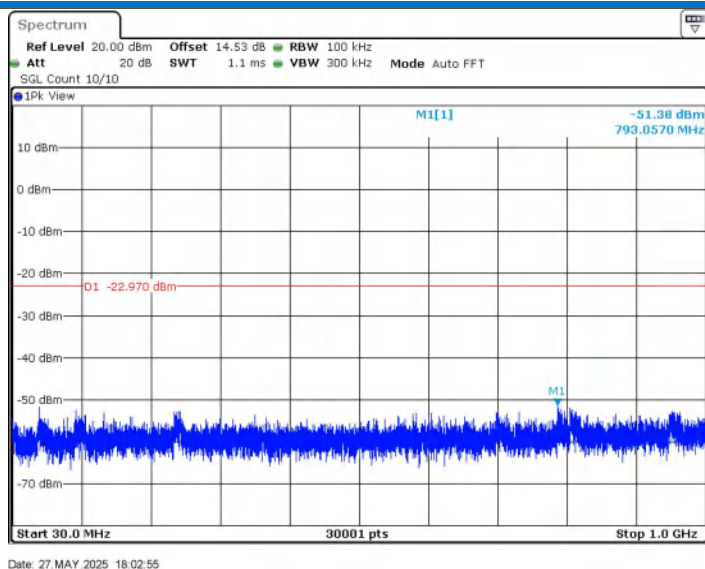
Date: 27. MAY 2025 18:00:40

11N20MIMO_Ant1_2437_0~Reference

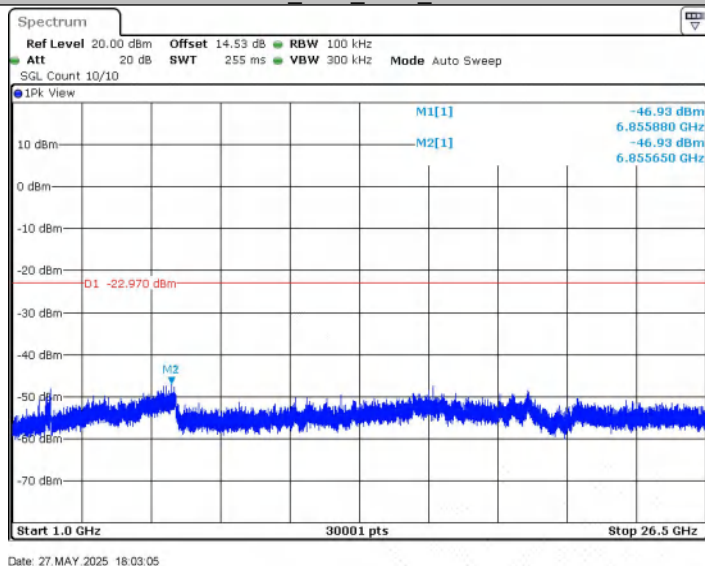


Date: 27. MAY 2025 18:02:50

11N20MIMO_Ant1_2437_30~1000



11N20MIMO_Ant1_2437_1000~26500



11N20MIMO_Ant1_2462_0~Reference

