



FCC CERTIFICATION TEST REPORT

Applicant	:	Shenzhen SDMC Technology Co., Ltd.
Address of Applicant	:	Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District, Shenzhen
Manufacturer	:	Shenzhen SDMC Technology Co., Ltd.
Address of Manufacturer	:	Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District, Shenzhen
Equipment under Test	:	Dynalink 4K Streaming Box
Model No.	:	DL-GT36
FCC ID	:	2AW68DL-GOOGLE
Test Standard(s)	:	FCC Rules and Regulations Part 15 Subpart C, ANSI C63.10:2013
Report No.	:	DDT-RE23041927-2E15
Issue Date	:	2024/02/02
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd.
Address of Laboratory	:	Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

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Test Report Declare

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Equipment under Test	:	Dynalink 4K Streaming Box
Model No.	:	DL-GT36
Manufacturer	:	Shenzhen SDMC Technology Co., Ltd.
Address of Manufacturer	:	Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District, Shenzhen

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C

Test Procedure Used:

ANSI C63.10:2013, KDB 662911 D01 v02r01

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above standards.

Report No.:	DDT-RE23041927-2E15		
Date of Receipt:	2023/06/27	Date of Test:	2023/06/27 ~ 2024/02/02

Prepared By:

Tiger Mo

Tiger Mo/Engineer

Approved By:



Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	2024/02/02	

1. Summary of Test Results

The EUT have been tested according to the applicable standards as referenced below.		
Description of Test Item	Standard	Results
6dB Bandwidth and 99% Bandwidth	FCC Part 15: 15.247(a)(2)	PASS
Conducted Output Power	FCC Part 15: 15.247(b)(3)	PASS
Power Spectral Density	FCC Part 15:15.247(e)	PASS
Band-edge and Spurious Emissions (Conducted)	FCC Part 15: 15.247(d)	PASS
Radiated Spurious Emissions	FCC Part 15: 15.205 FCC Part 15: 15.209 FCC Part 15: 15.247(d)	PASS
Radiated Band Edge Compliance	FCC Part 15: 15.205 FCC Part 15: 15.209 FCC Part 15: 15.247(d)	PASS
Power Line Conducted Emission	FCC Part 15: 15.207(a)	PASS
Antenna requirement	FCC Part 15: 15.203	PASS

2. General Test Information

2.1. Description of EUT

EUT Name	: Dynalink 4K Streaming Box
Model Number	: DL-GT36
EUT function description	: Please reference user manual of this device
Power supply	: DC 5V power from an external adapter
Radio Technology	: Bluetooth V5.0 (BR/EDR/LE), WLAN(2.4 GHz): IEEE 802.11b/g/n WLAN(5 GHz): IEEE 802.11a/n/ac
Operation frequency	: Bluetooth (BR/EDR/LE): 2402 MHz-2480 MHz IEEE 802.11b/g/n: 2412 MHz to 2462 MHz, IEEE 802.11a/n/ac: 5180 MHz to 5240 MHz, 5260 MHz to 5320 MHz, 5500 MHz to 5720 MHz, 5745 MHz to 5825 MHz
Modulation	: Bluetooth BR/EDR: GFSK, $\pi/4$ -DQPSK, 8DPSK Bluetooth LE: GFSK IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g/a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Transmitter rate	: Bluetooth BR/EDR: 1 Mbps, 2 Mbps, 3 Mbps Bluetooth LE: 1 Mbps, 2 Mbps IEEE 802.11b: up to 11 Mbps IEEE 802.11a/g: up to 54 Mbps IEEE 802.11n HT20: up to 144.4 Mbps IEEE 802.11n HT40: up to 300 Mbps IEEE 802.11ac VHT20: up to 173.4 Mbps IEEE 802.11ac VHT40: up to 400 Mbps IEEE 802.11ac VHT80: up to 866.6 Mbps
Operating mode	<input type="checkbox"/> Master <input checked="" type="checkbox"/> Client Without Radar Detection <input type="checkbox"/> Client with Radar Detection
TPC function	<input type="checkbox"/> With TPC <input checked="" type="checkbox"/> Without TPC

Note 1: EUT is the abbreviation of equipment under test.

Note 2: “” means to be chosen or applicable; “” means don't to be chosen or not applicable; This note applies to entire report.

Note 3: This report only for 2.4G WIFI.

Note 4:Antenna information:

Antenna Type	built-in metal plug-in antenna	
	Ant1 gain(G1)	Ant2 gain(G2)
IEEE 802.11b	2.92	2.86
IEEE 802.11g	2.92	2.86
IEEE 802.11n HT20	2.92	2.86
IEEE 802.11n HT40	2.92	2.86

Note: This EUT MIMO 2X2, any transmit signals are correlated with each other. So the Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2/2] = 5.90\text{dBi}$

Channel information					
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447	/	/

Note 5: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

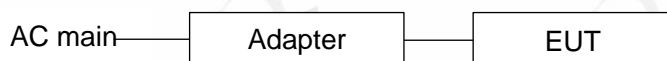
2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description	Remark
Adapter	SHENZHEN TIANYIN ELECTRONICS CO.,LTD	TPA-253050100UW01	Input: 100-240V ~ 50/60Hz 0.2A Output: 5V=1.0A	N/A
HDMI cable	N/A	N/A	Length: 1.00m, Shielded HDMI	N/A
Remote control	N/A	N/A	N/A	N/A

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
Note Book	Lenovo	i5-3230M	N/A	MM-202201270935

2.4. Block diagram of EUT configuration for test



Test software: Xshell.exe

The test software was used to control EUT work in Continuous Tx mode and select test channel, wireless mode as below table.

The pathloss of external cable: 0.5dB (According to the manufacturer's claims)

Tested mode, channel, and data rate information					
Mode	Setting Tx Power		data rate (Mbps) (see Note)	Channel	Frequency (MHz)
	ANT1	ANT2			
IEEE 802.11b	Default	Default	1	LCH: CH1	2412
	Default	Default	1	MCH: CH6	2437
	Default	Default	1	HCH: CH11	2462
IEEE 802.11g	70	60	6	LCH: CH1	2412
	70	60	6	MCH: CH6	2437
	70	60	6	HCH: CH11	2462
IEEE 802.11n HT20	70	60	MCS 8	LCH: CH1	2412
	70	60	MCS 8	MCH: CH6	2437
	70	60	MCS 8	HCH: CH11	2462
IEEE 802.11n HT40	70	60	MCS 8	LCH: CH3	2422
	70	60	MCS 8	MCH: CH6	2437
	70	60	MCS 8	HCH: CH9	2452

Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

2.5. Deviations of test standard

No Deviation

2.6. Test environment conditions

Temperature range:	+15°C to +35 °C
Humidity range:	20% to 75%
Pressure range:	86 kPa to 106 kPa

2.7. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No.17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China 523808

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2.8. Measurement uncertainty

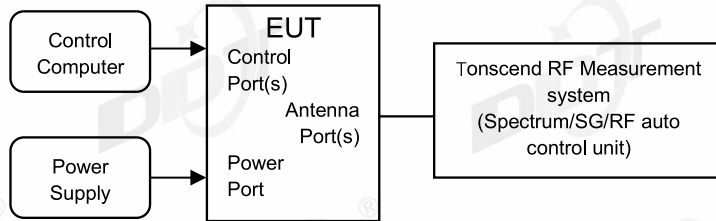
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB (10 MHz ≤ f < 3.6 GHz);
	1.38 dB (3.6 GHz ≤ f < 8 GHz)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB (10 MHz ≤ f < 3.6 GHz);
	1.38 dB (3.6 GHz ≤ f < 8 GHz)
Frequencies Stability	6.7 x 10 ⁻⁸ (Antenna couple method)
	5.5 x 10 ⁻⁸ (Conducted method)
Conducted spurious emissions	0.86 dB (10 MHz ≤ f < 3.6 GHz);
	1.40 dB (3.6 GHz ≤ f < 8 GHz)
	1.66 dB (8 GHz ≤ f < 26.5 GHz)
Uncertainty for radio frequency (RBW < 20 kHz)	3x10 ⁻⁸
Temperature	0.4 °C
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.10 dB (1 - 6 GHz)
	4.40 dB (6 GHz - 18 GHz)
	3.54 dB (18 GHz - 26 GHz)
	4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.34dB (150KHz-30MHz)
	3.72dB (9KHz-150KHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Conductive Test

Equipment	Manufacturer	Model No.	Serial Number	Due Date
☑RF Connected Test (RF Measurement System 3#)				
SIGNAL ANALYZER	R&S	FSV40	101407	2024/07/11
Wideband Radio Communication Tester	R&S	CMW500	117491	2024/04/26
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY62153058	2024/07/11
MXG Vector Signal Generator	Agilent	N5182A	MY48180912	2024/04/22
RF Control Unit	Tonscend	JS0806-2	20C8060230	2024/04/26
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2024/05/14
Test Software	Tonscend	JS1120-3	Ver.3.2.22	N/A

4. 6dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

For direct sequence systems, the minimum 6 dB bandwidth shall be at least 500 kHz

4.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 11.8.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously
- (4) Use the following spectrum analyzer settings for 6 dB Bandwidth:

RBW:	100 kHz
VBW:	$\geq [3 \times \text{RBW}]$
Detector Mode:	peak
Sweep time:	auto
Trace mode	max hold

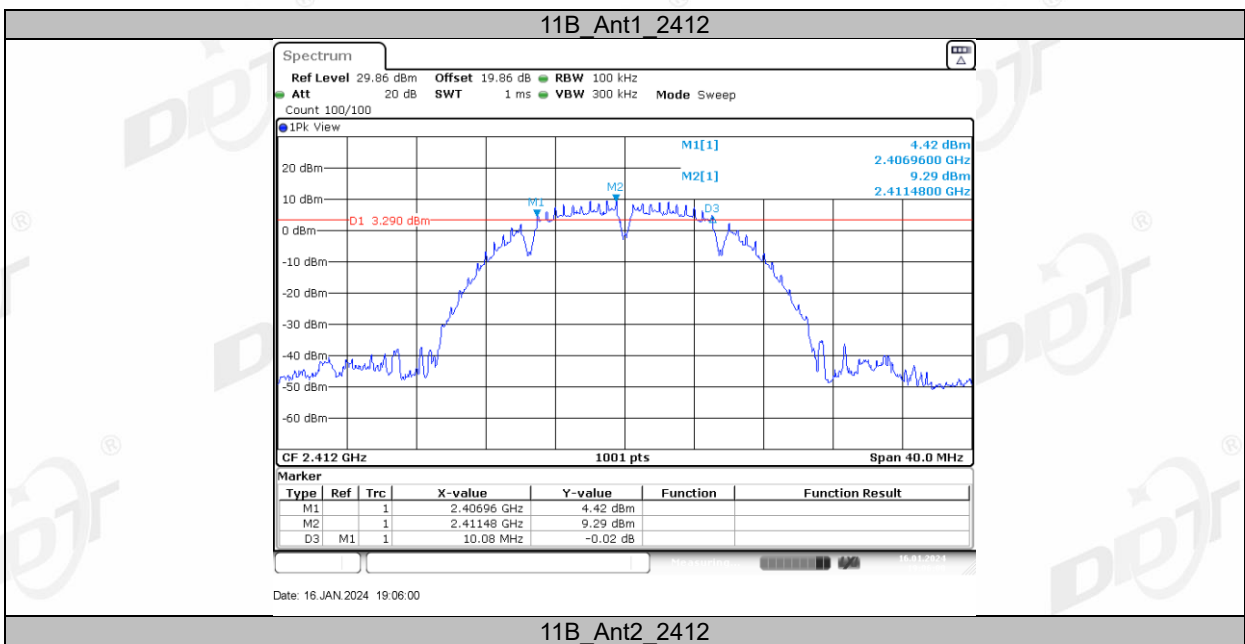
Allow the trace to stabilize, measure the 6 dB bandwidth of signal, and record the results in the report

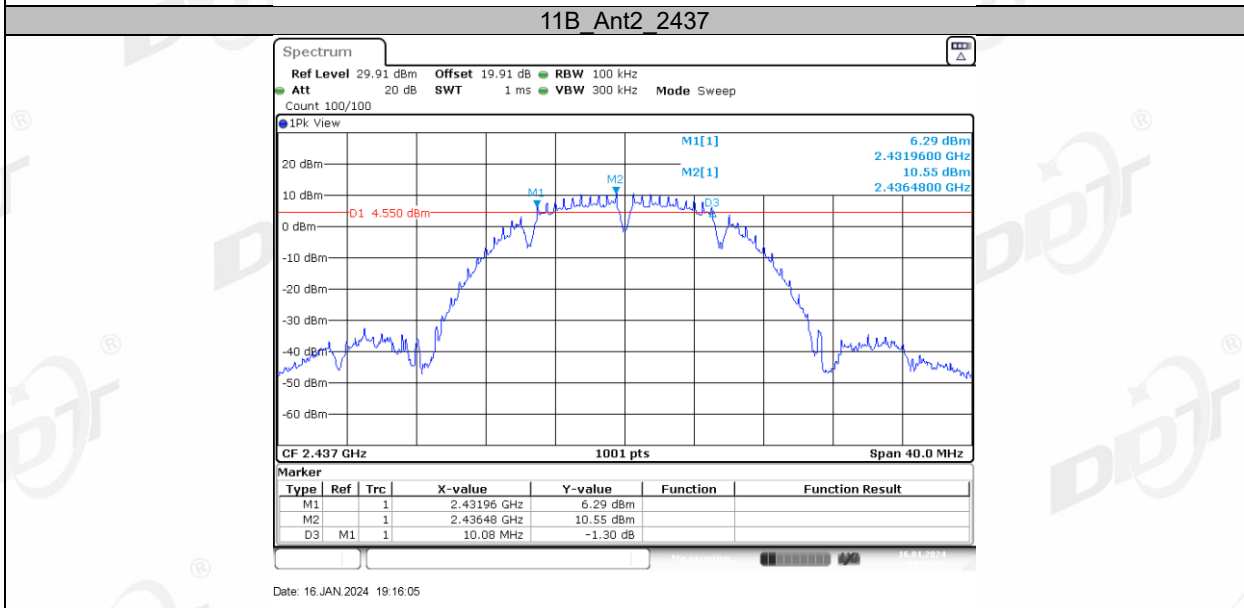
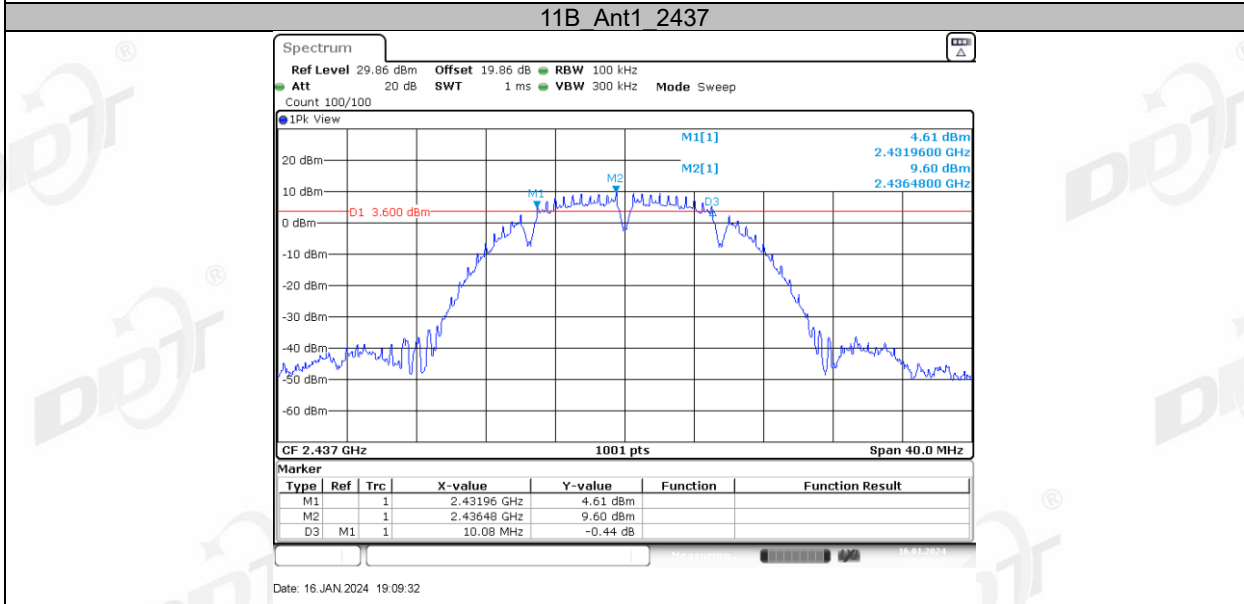
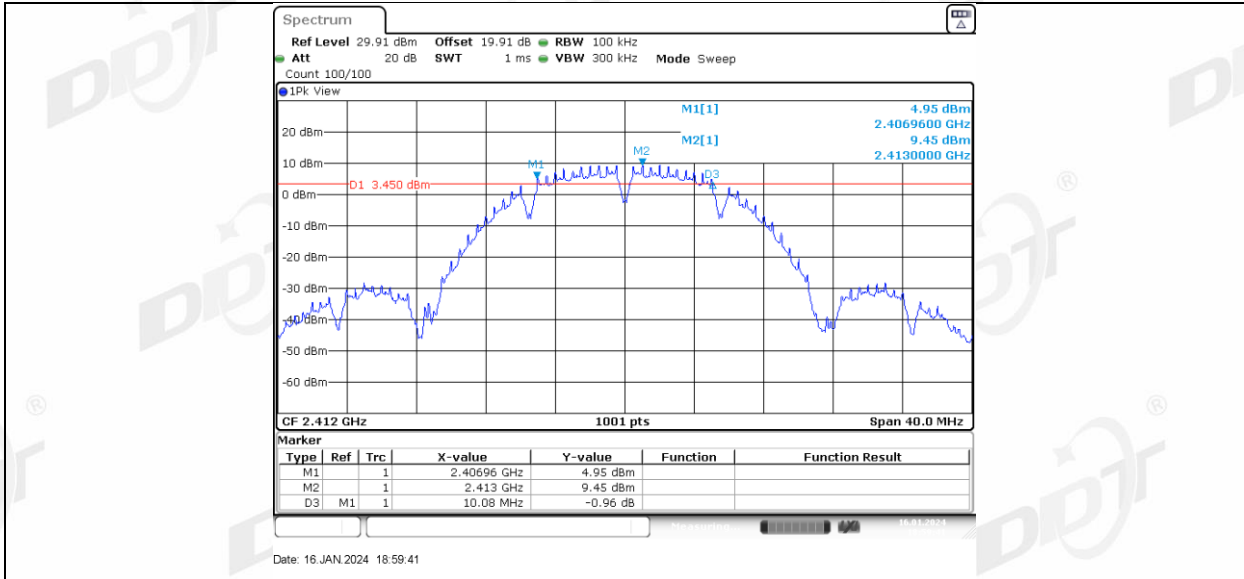
4.4. Test result

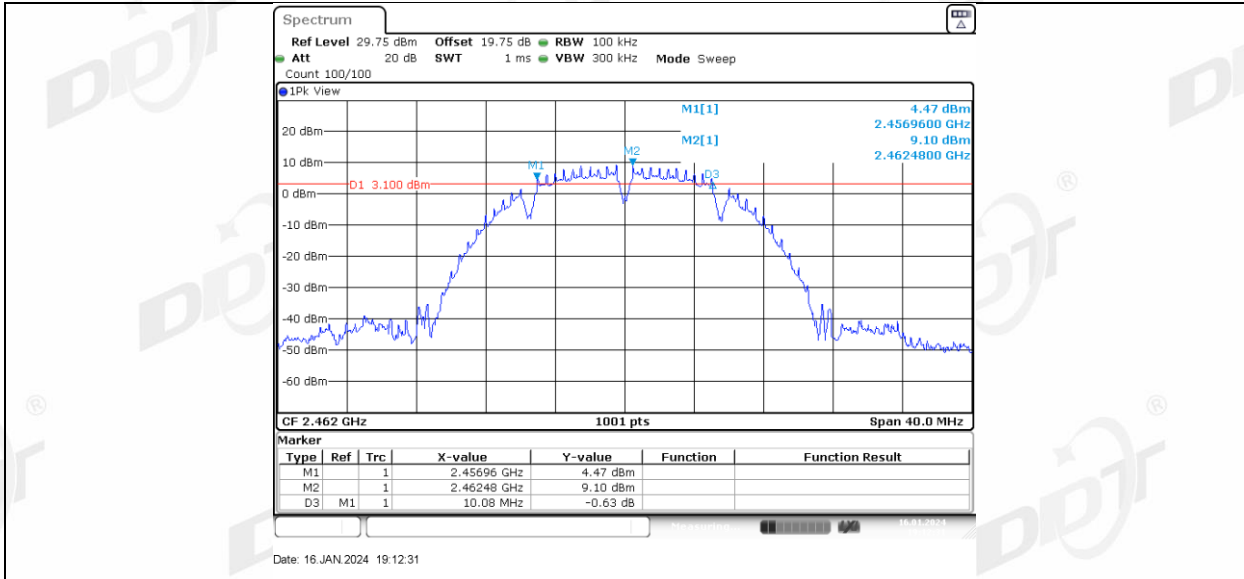
Test Engineer:	Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	23.3°C, 50.0%RH	Test Date:	2024.01.16
Test Power Supply:	DC 5V	EUT:	Dynalink 4K Streaming Box
Sample Number:	S23041927-02	Model No.:	DL-GT36

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	10.08	2406.96	2417.04	0.5	PASS
	Ant2	2412	10.08	2406.96	2417.04	0.5	PASS
	Ant1	2437	10.08	2431.96	2442.04	0.5	PASS
	Ant2	2437	10.08	2431.96	2442.04	0.5	PASS
	Ant1	2462	10.08	2456.96	2467.04	0.5	PASS
	Ant2	2462	10.08	2456.96	2467.04	0.5	PASS
11G	Ant1	2412	15.96	2403.84	2419.80	0.5	PASS
	Ant2	2412	16.00	2403.88	2419.88	0.5	PASS
	Ant1	2437	15.68	2429.24	2444.92	0.5	PASS
	Ant2	2437	15.40	2429.48	2444.88	0.5	PASS
	Ant1	2462	16.08	2453.84	2469.92	0.5	PASS
	Ant2	2462	16.04	2453.84	2469.88	0.5	PASS
11N20MIMO	Ant1	2412	16.68	2403.84	2420.52	0.5	PASS
	Ant2	2412	16.52	2403.88	2420.40	0.5	PASS
	Ant1	2437	16.68	2428.48	2445.16	0.5	PASS
	Ant2	2437	16.12	2429.24	2445.36	0.5	PASS
	Ant1	2462	17.16	2453.60	2470.76	0.5	PASS
	Ant2	2462	16.28	2453.84	2470.12	0.5	PASS
11N40MIMO	Ant1	2422	35.12	2404.48	2439.60	0.5	PASS
	Ant2	2422	35.12	2404.48	2439.60	0.5	PASS
	Ant1	2437	35.12	2419.48	2454.60	0.5	PASS
	Ant2	2437	35.20	2419.40	2454.60	0.5	PASS
	Ant1	2452	35.12	2434.48	2469.60	0.5	PASS
	Ant2	2452	35.12	2434.48	2469.60	0.5	PASS

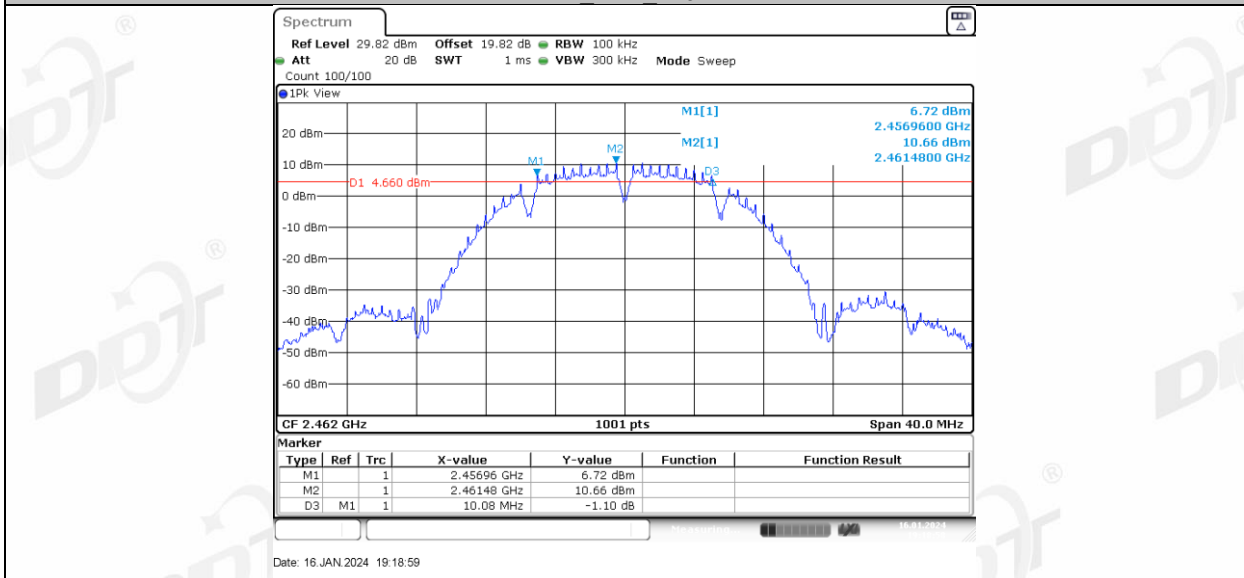
4.5. Test graphs



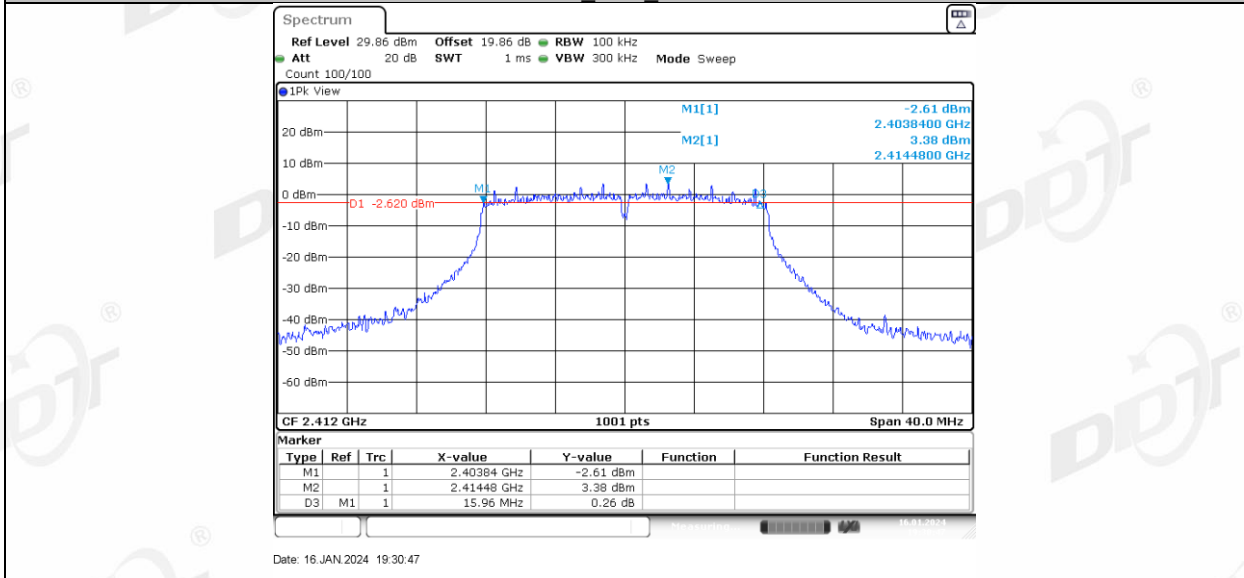




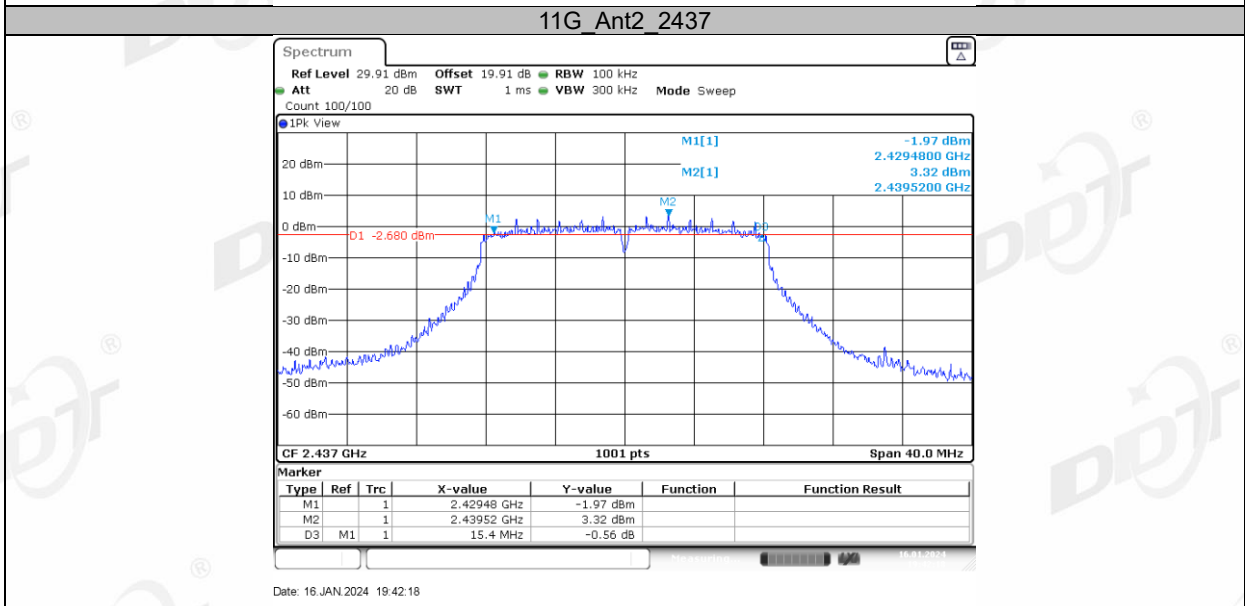
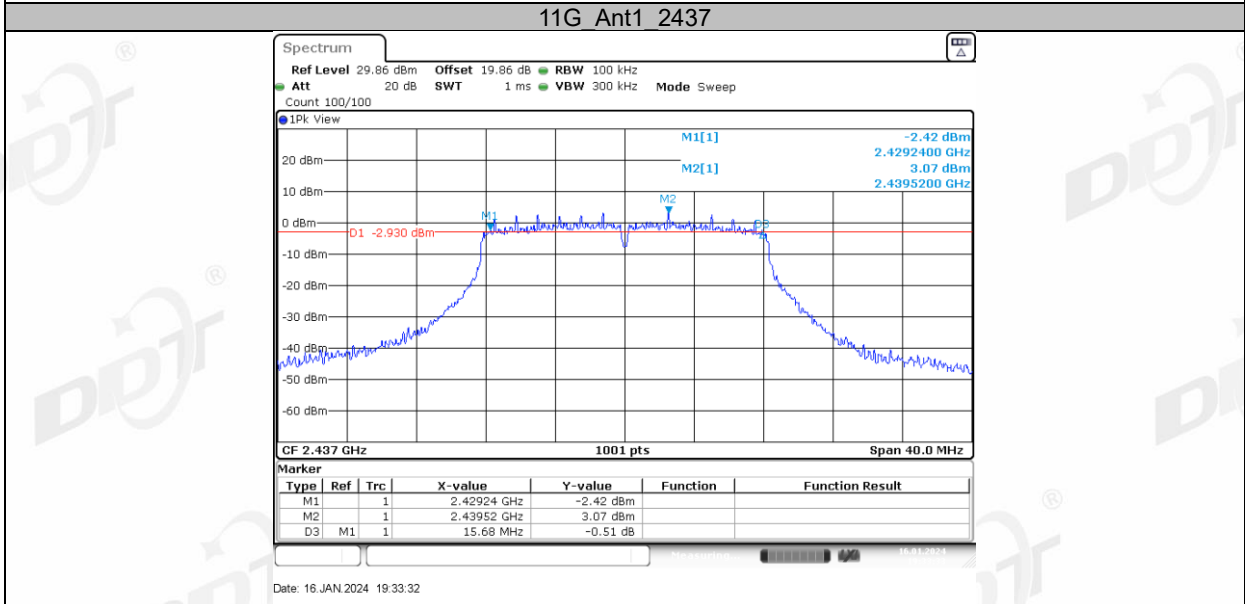
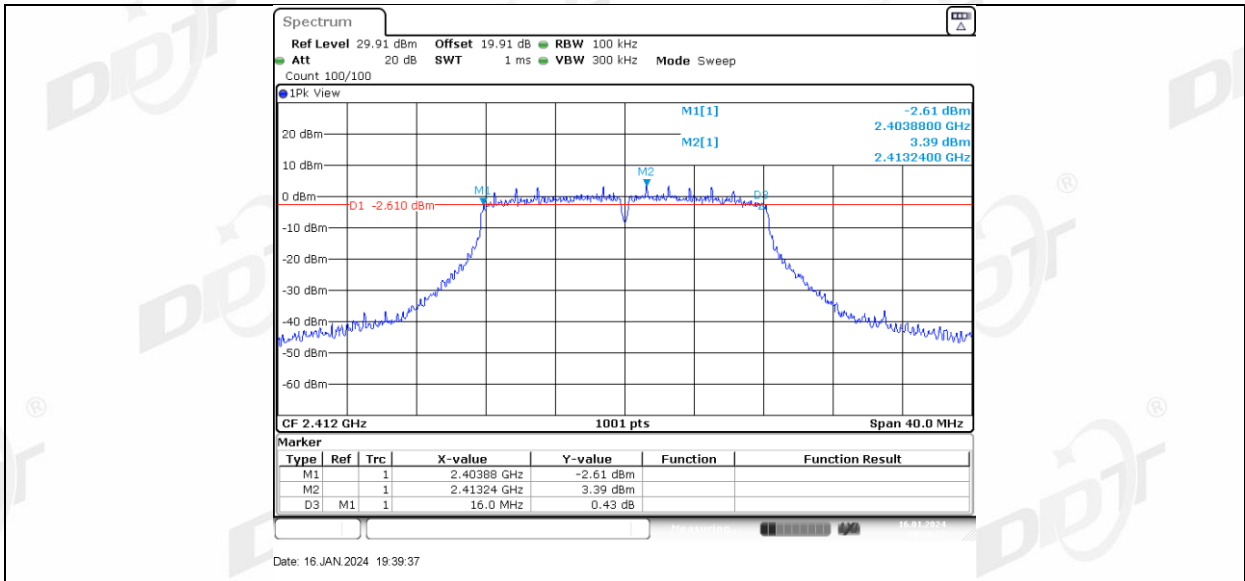
11B Ant2 2462

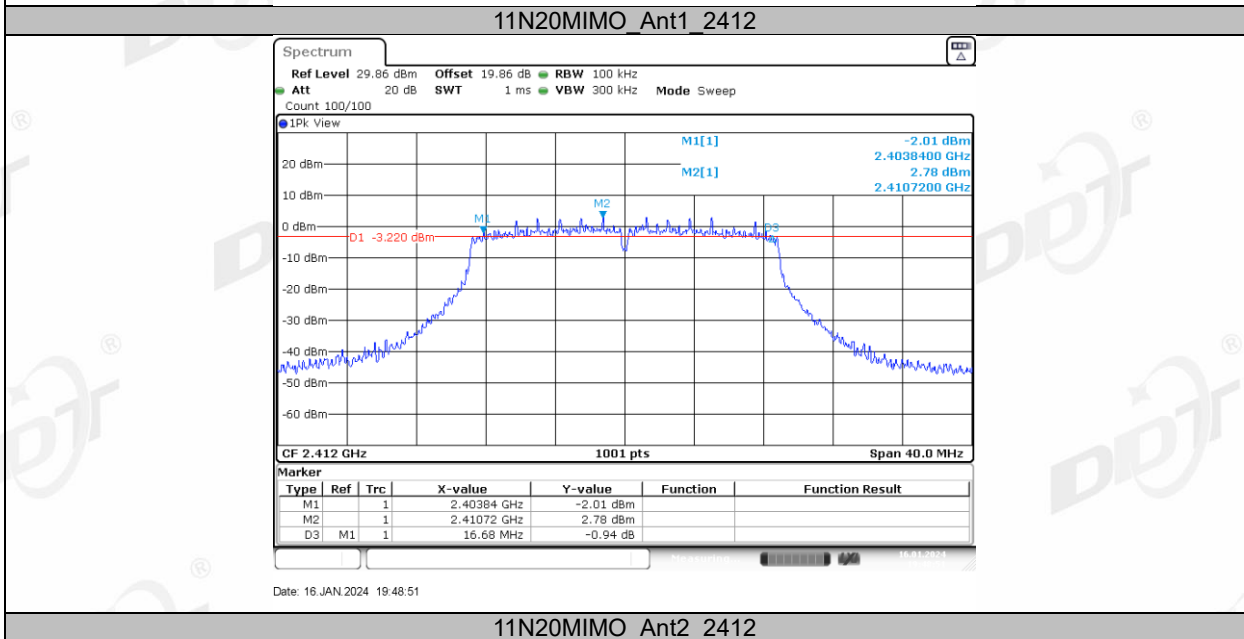
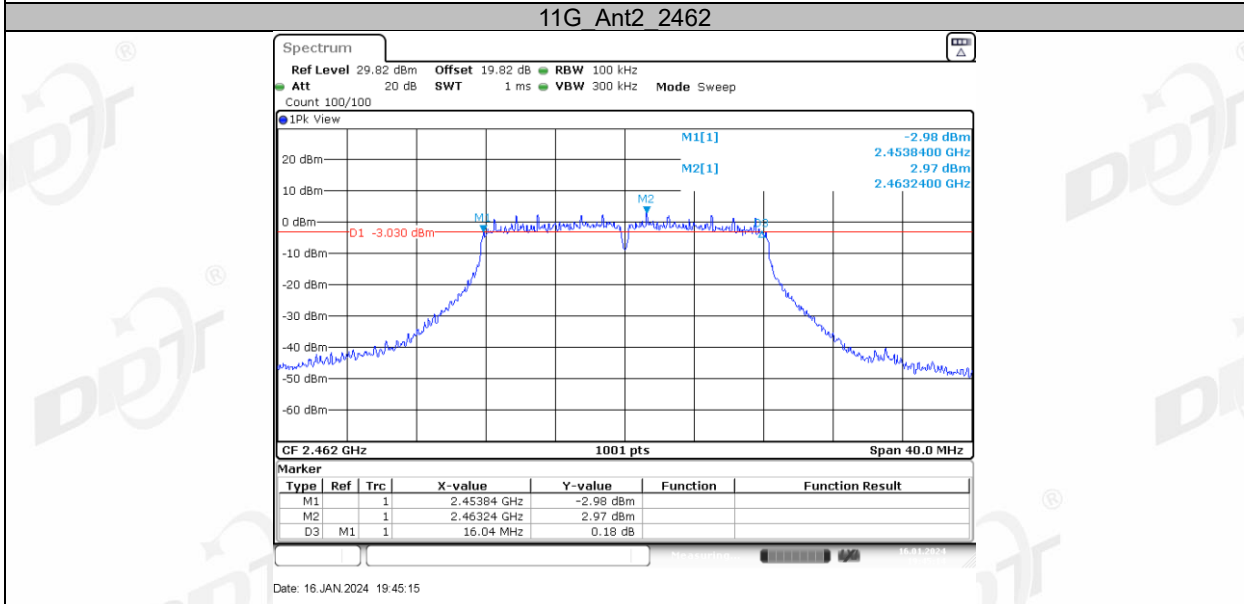
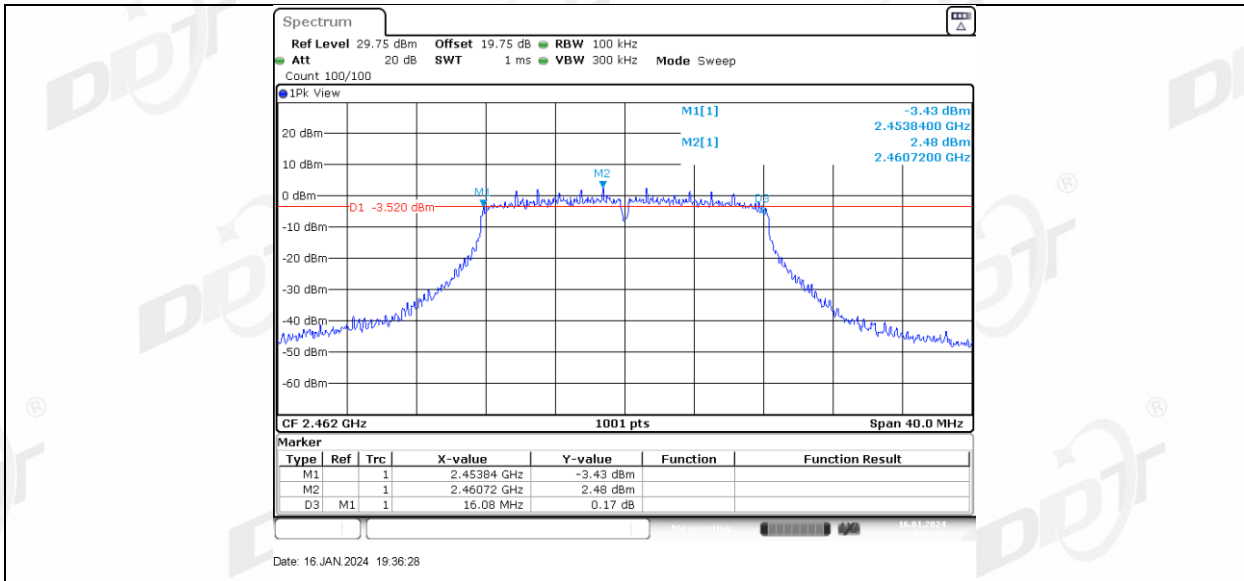


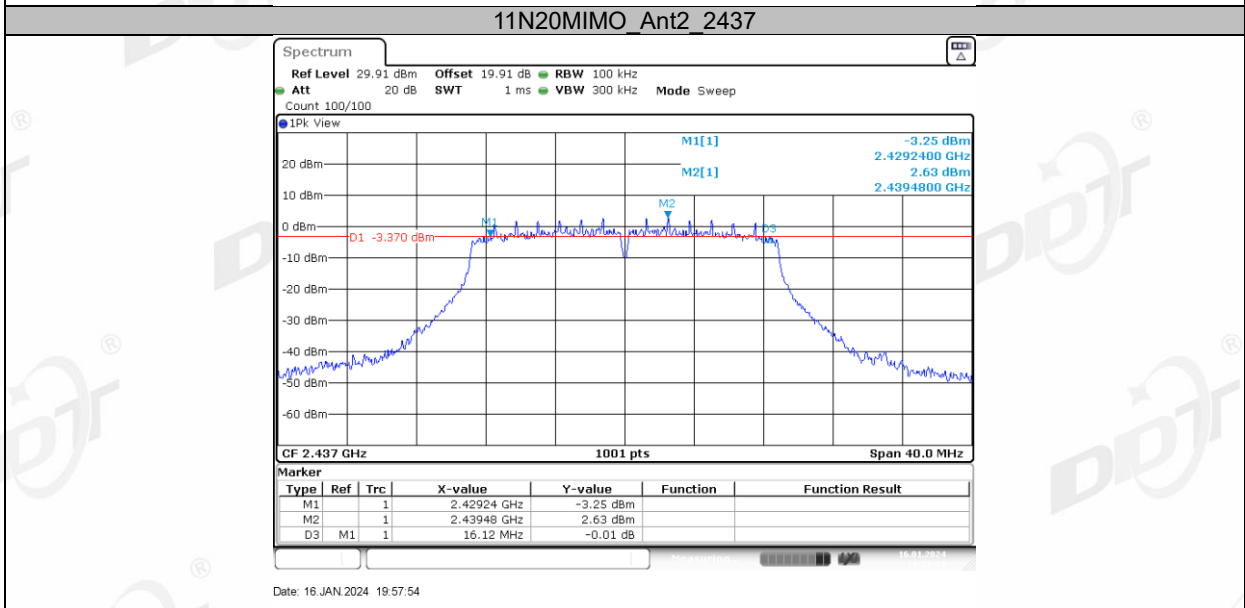
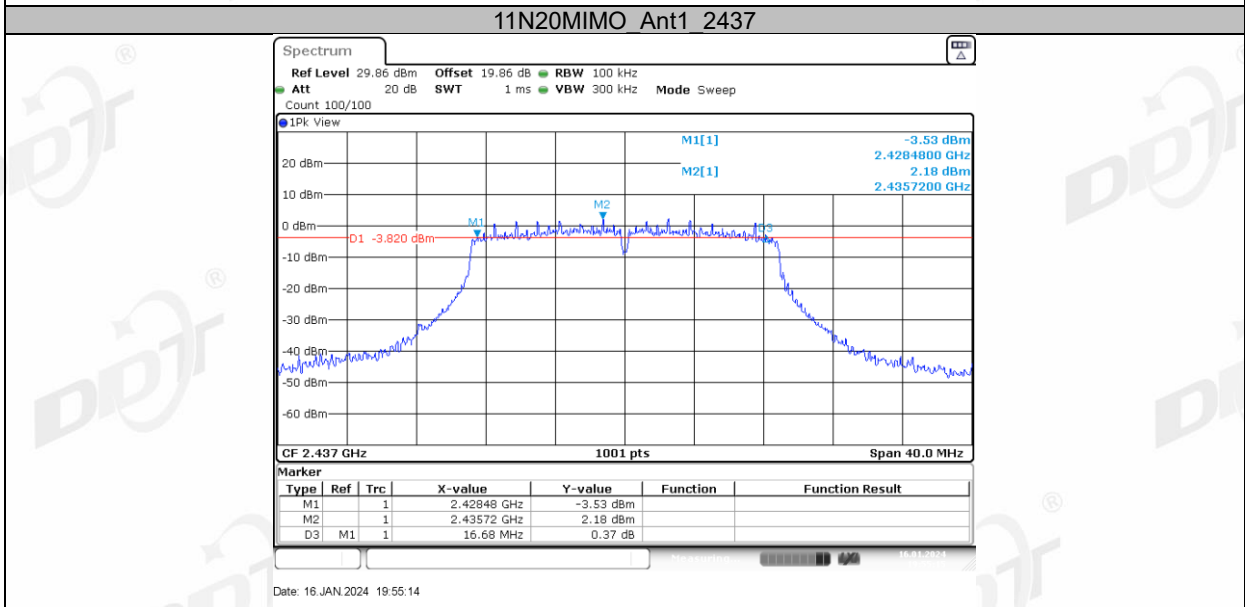
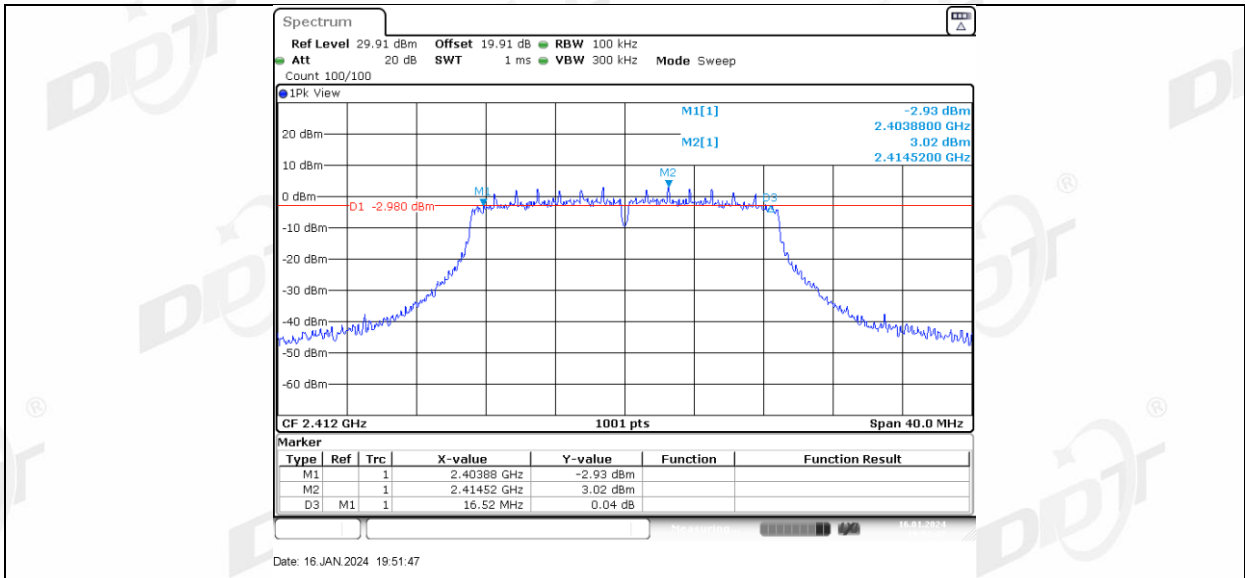
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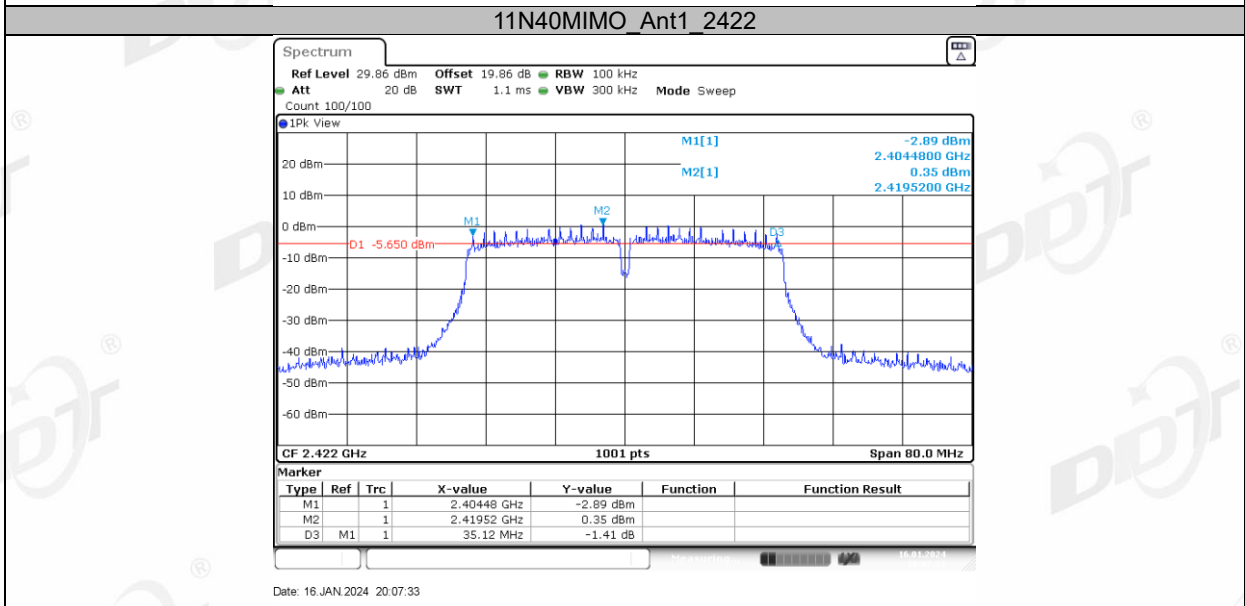
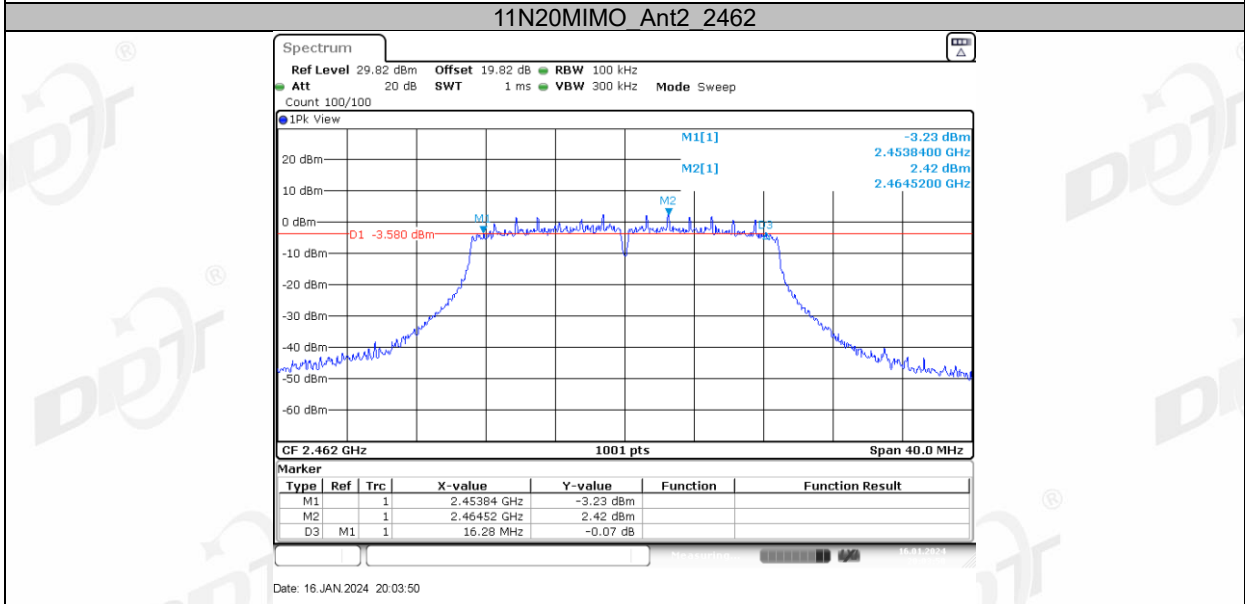
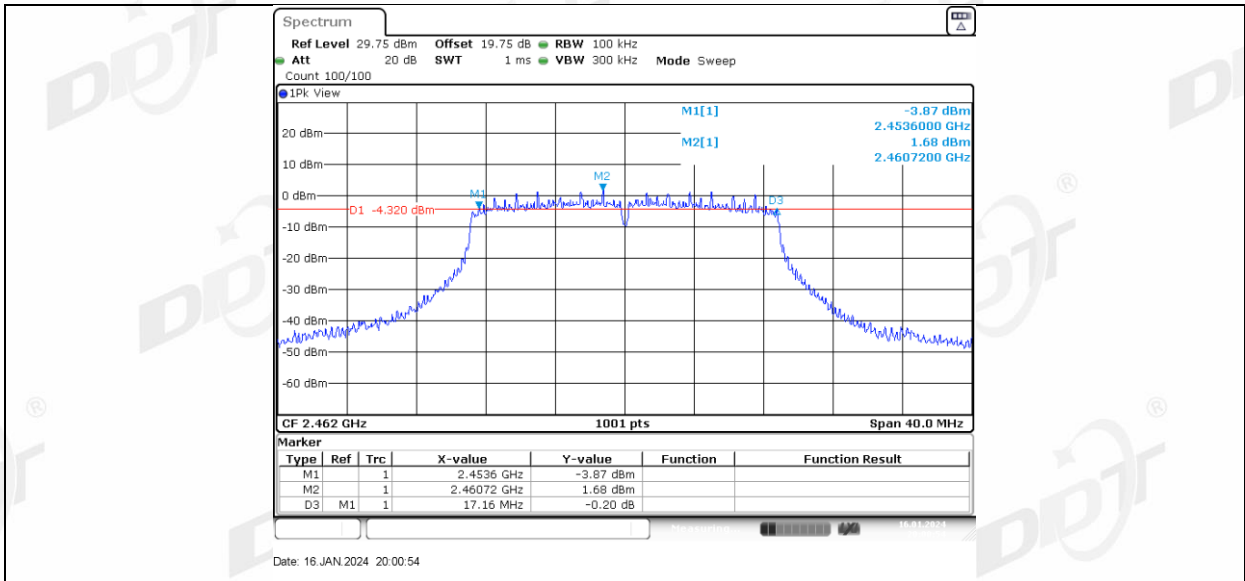


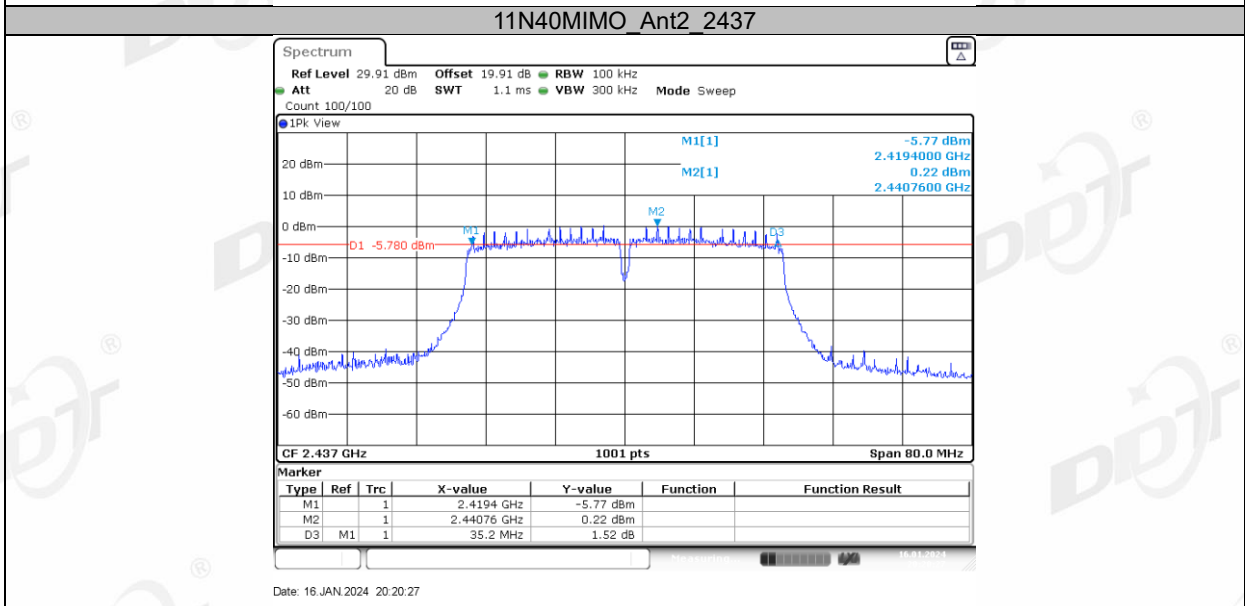
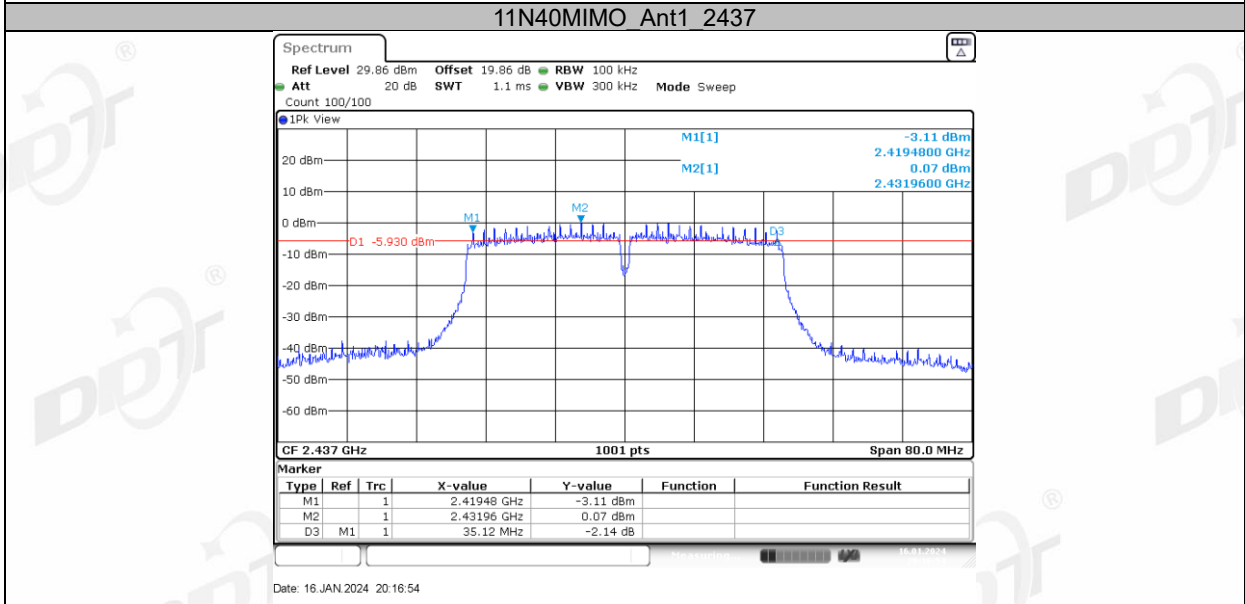
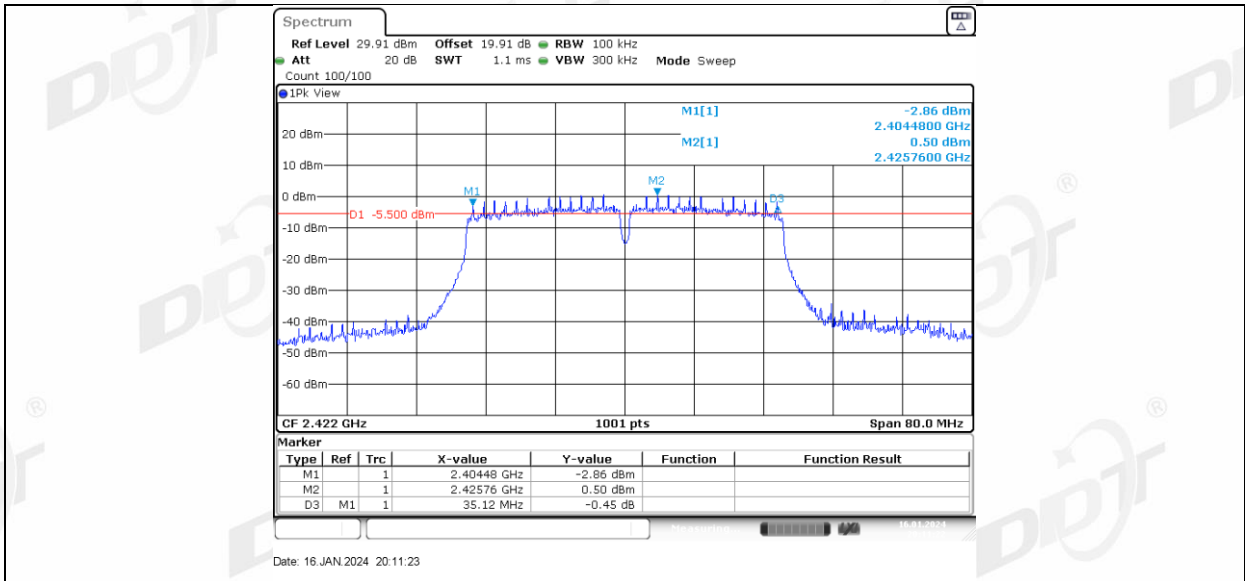
11G Ant2 2412

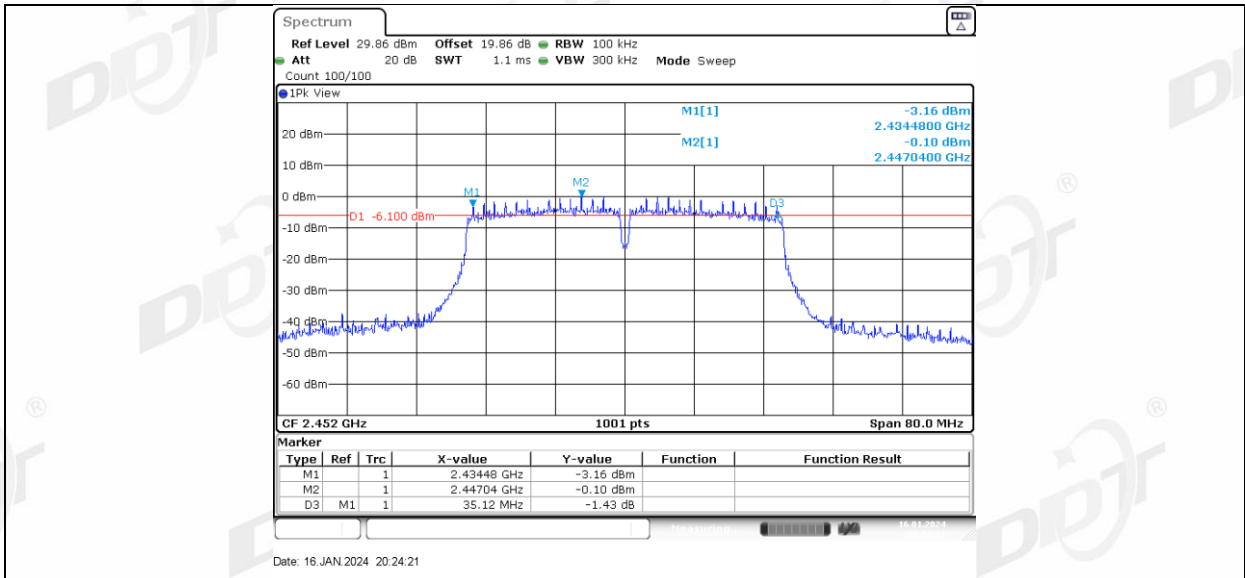




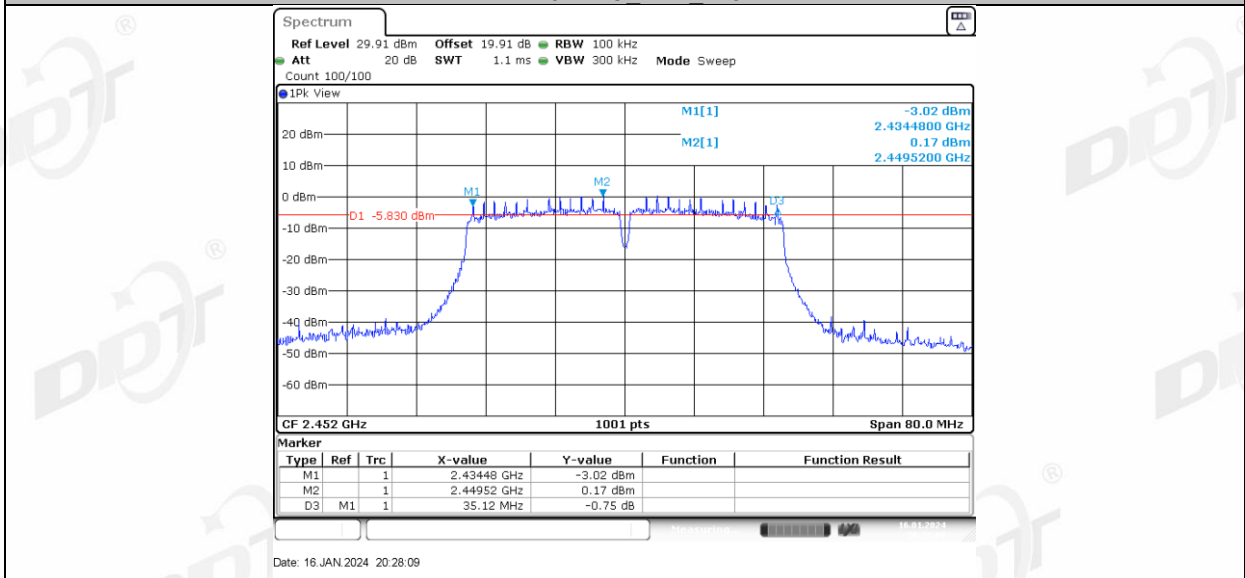






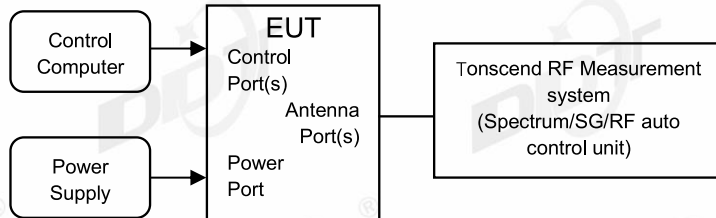


11N40MIMO Ant2 2452



5. 99% Bandwidth

5.1. Block diagram of test setup



5.2. Limits

Just for Report.

5.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 6.9.3.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously
- (4) Use the following spectrum analyzer settings for the 99% Bandwidth:

RBW:	1% to 5% of the OBW
VBW:	approximately three times RBW
Span:	between 1.5 times and 5.0 times the OBW
Detector Mode:	peak
Sweep time:	auto
Trace mode	max hold

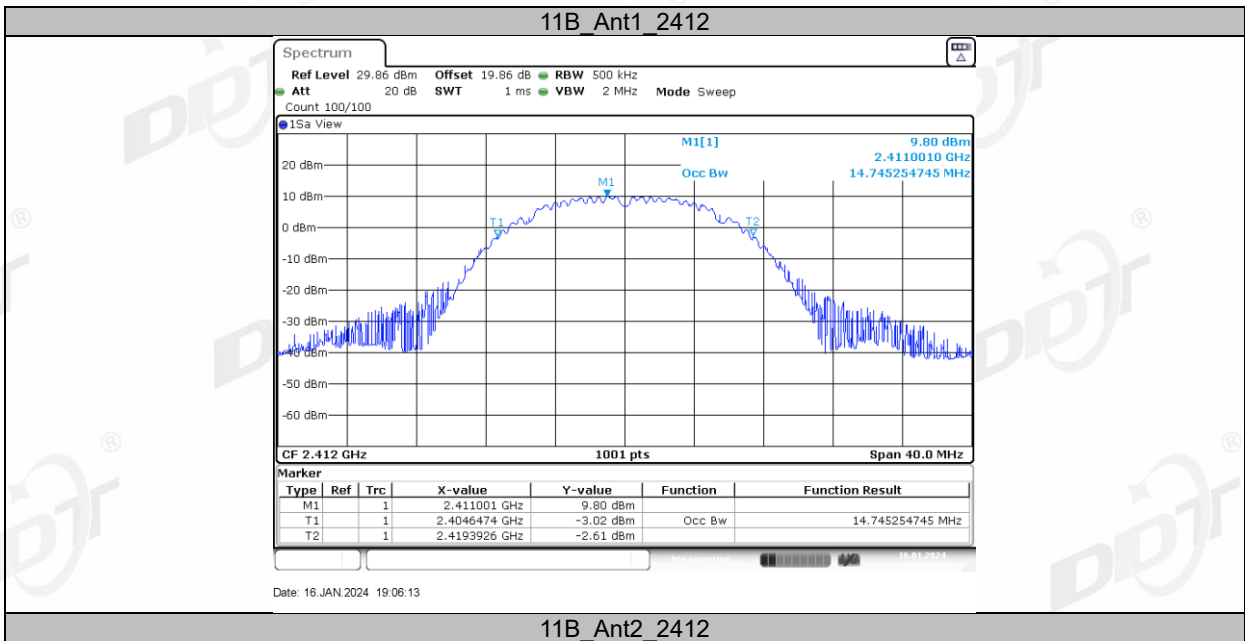
Allow the trace to stabilize, measure the 99% bandwidth of signal, and record the results in the report.

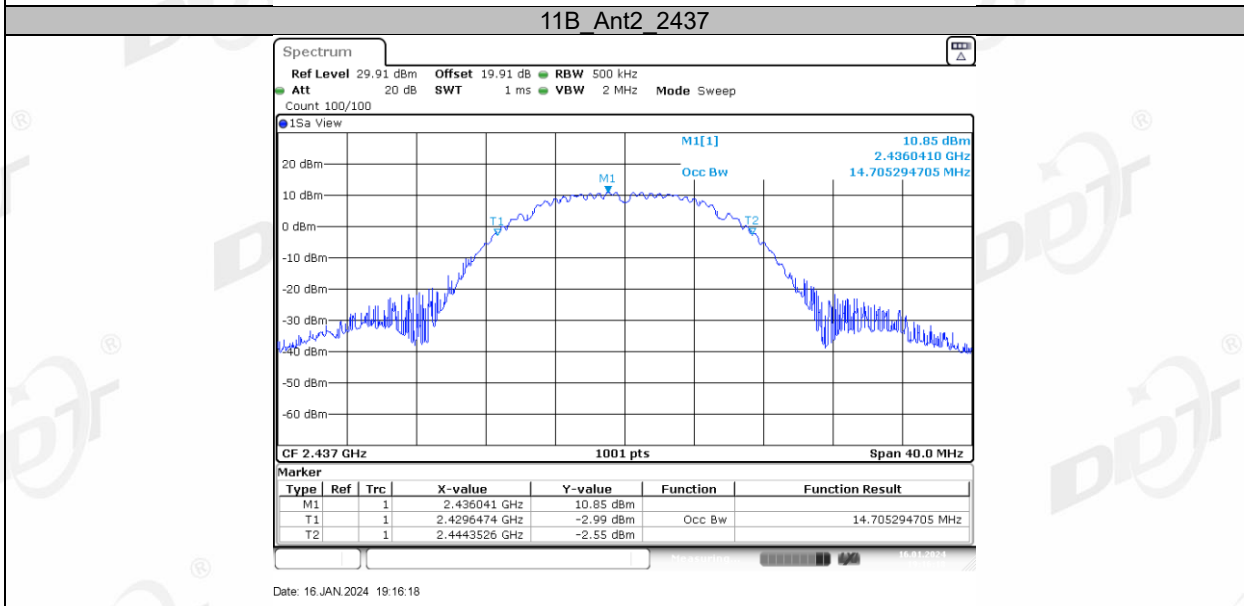
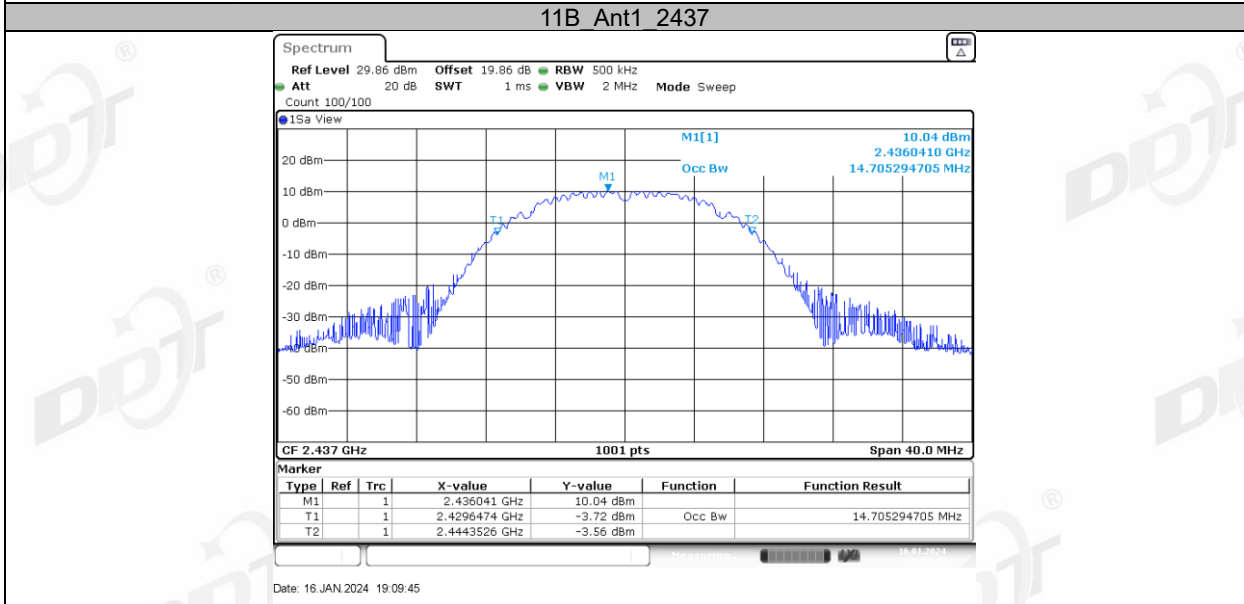
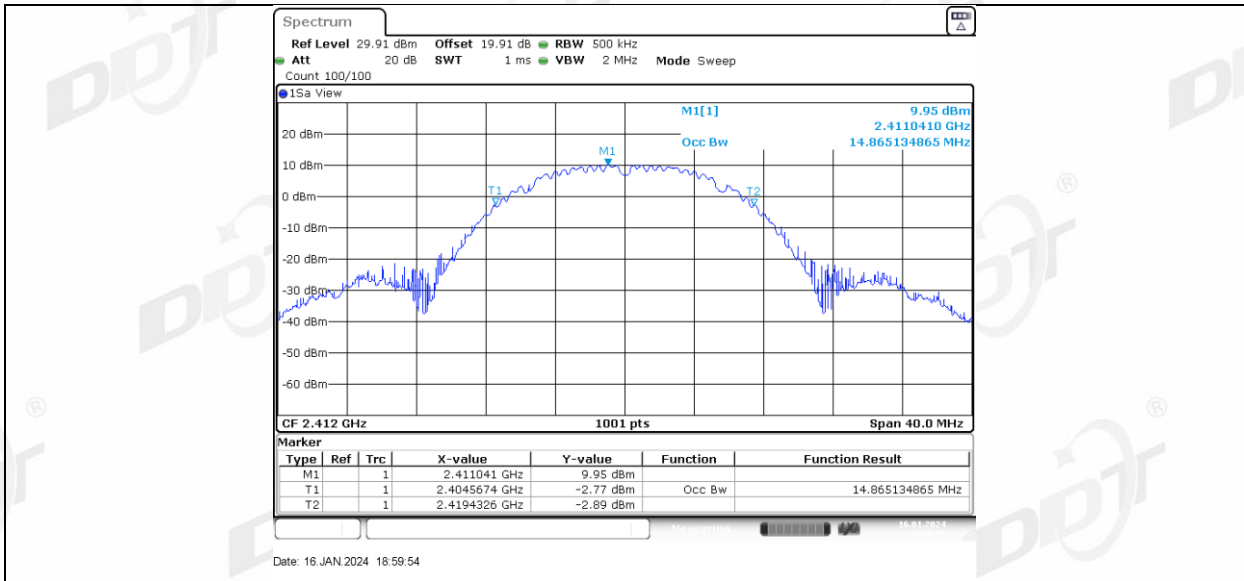
5.4. Test result

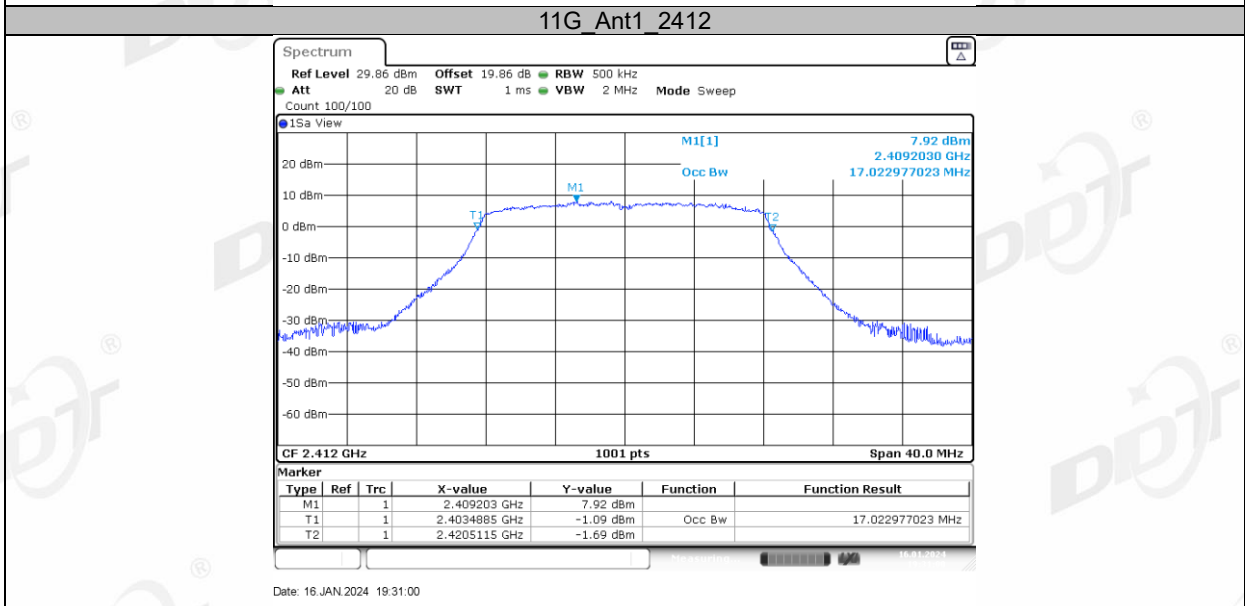
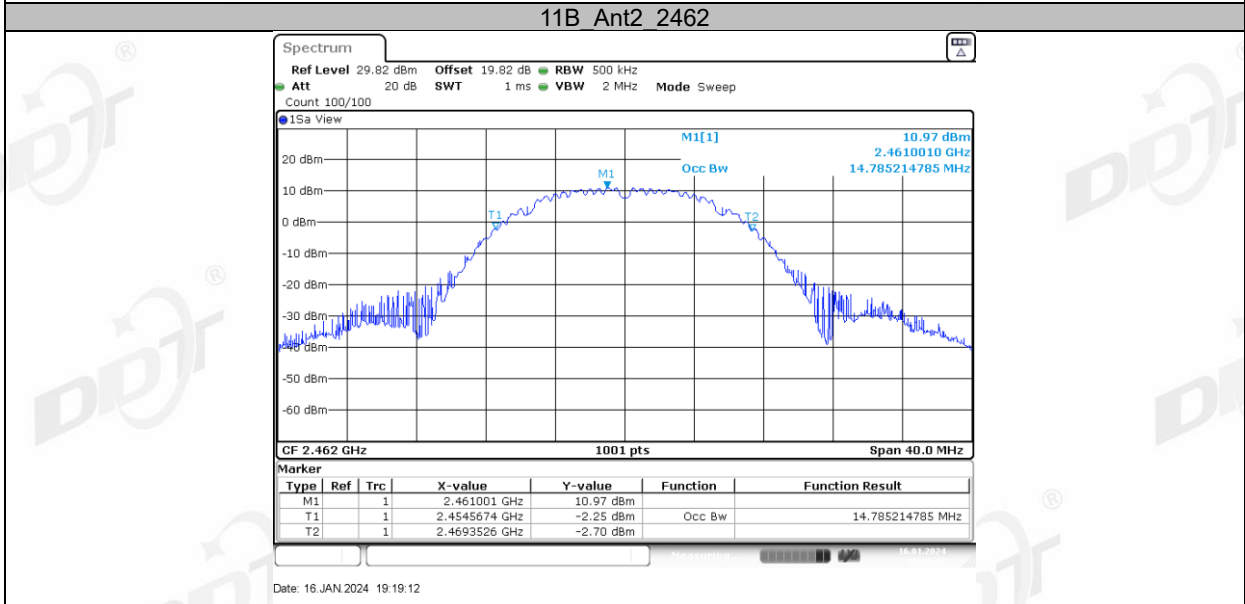
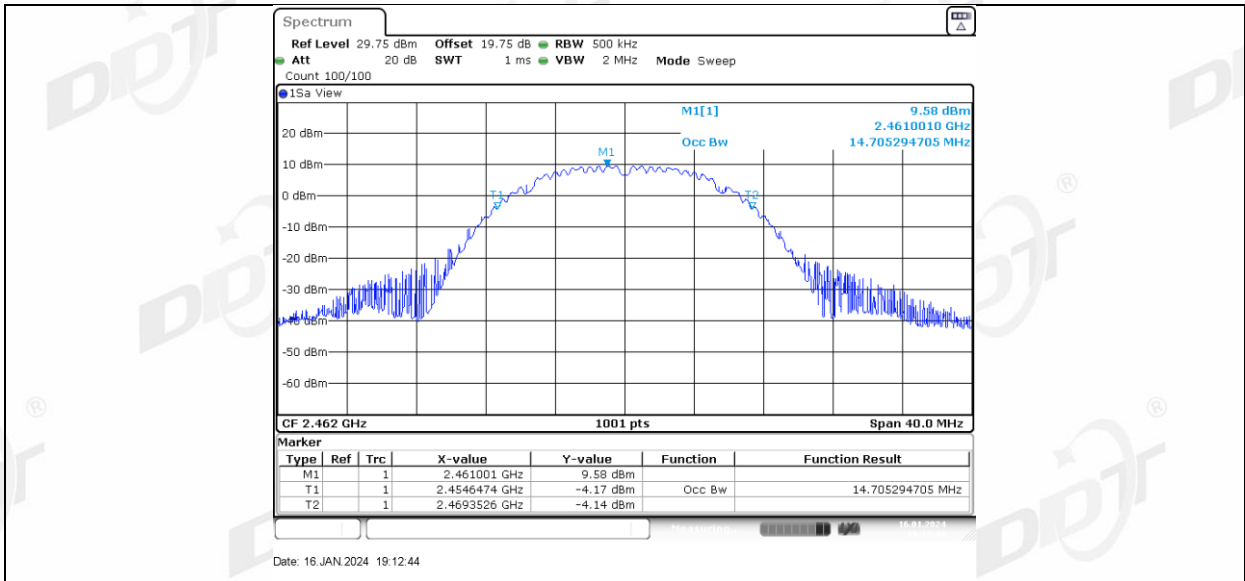
Test Engineer:	Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	23.3°C, 50.0%RH	Test Date:	2024.01.16
Test Power Supply:	DC 5V	EUT:	Dynalink 4K Streaming Box
Sample Number:	S23041927-02	Model No.:	DL-GT36

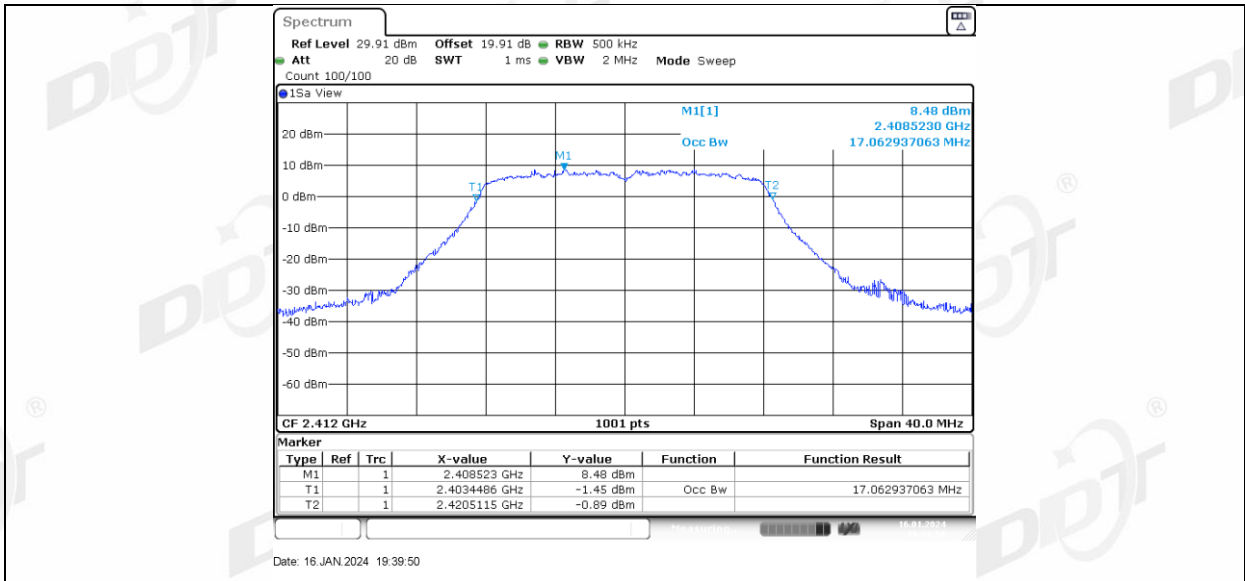
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.745	2404.6474	2419.3926	---	---
	Ant2	2412	14.865	2404.5674	2419.4326	---	---
	Ant1	2437	14.705	2429.6474	2444.3526	---	---
	Ant2	2437	14.705	2429.6474	2444.3526	---	---
	Ant1	2462	14.705	2454.6474	2469.3526	---	---
	Ant2	2462	14.785	2454.5674	2469.3526	---	---
11G	Ant1	2412	17.023	2403.4885	2420.5115	---	---
	Ant2	2412	17.063	2403.4486	2420.5115	---	---
	Ant1	2437	16.983	2428.5285	2445.5115	---	---
	Ant2	2437	17.063	2428.4086	2445.4715	---	---
	Ant1	2462	17.103	2453.4486	2470.5514	---	---
	Ant2	2462	17.143	2453.3686	2470.5115	---	---
11N20MIMO	Ant1	2412	17.782	2403.0889	2420.8711	---	---
	Ant2	2412	18.102	2402.9291	2421.0310	---	---
	Ant1	2437	17.702	2428.1289	2445.8312	---	---
	Ant2	2437	18.222	2427.8492	2446.0709	---	---
	Ant1	2462	17.742	2453.1289	2470.8711	---	---
	Ant2	2462	18.022	2452.9690	2470.9910	---	---
11N40MIMO	Ant1	2422	36.204	2403.8581	2440.0619	---	---
	Ant2	2422	36.523	2403.6983	2440.2218	---	---
	Ant1	2437	36.204	2418.8581	2455.0619	---	---
	Ant2	2437	36.523	2418.6983	2455.2218	---	---
	Ant1	2452	36.364	2433.7782	2470.1419	---	---
	Ant2	2452	36.364	2433.6983	2470.0619	---	---

5.5. Test graphs

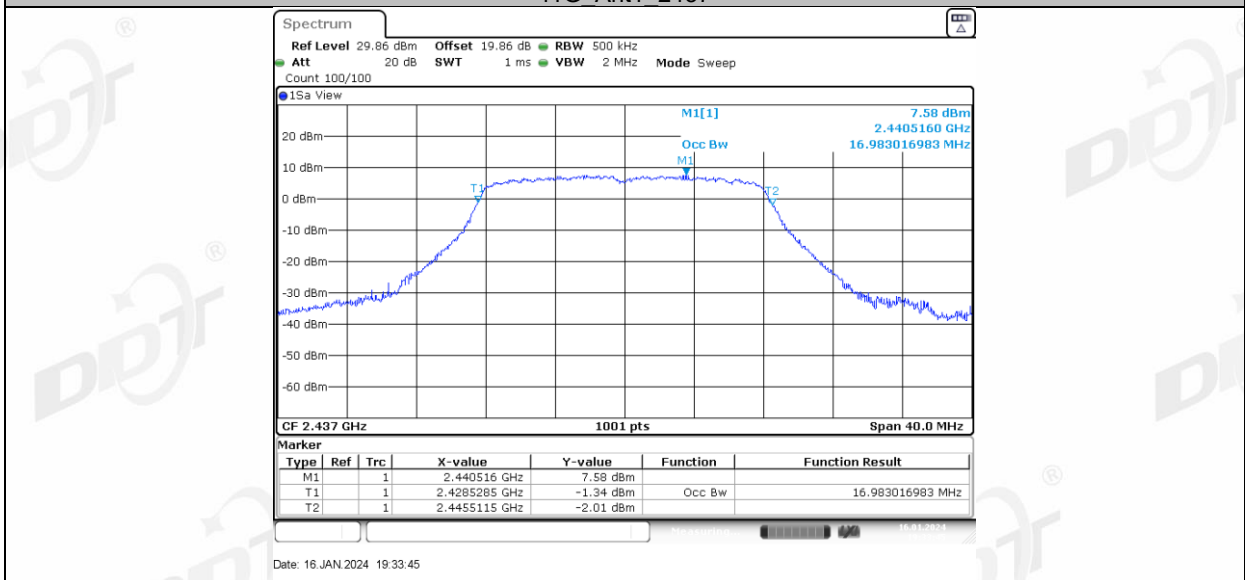




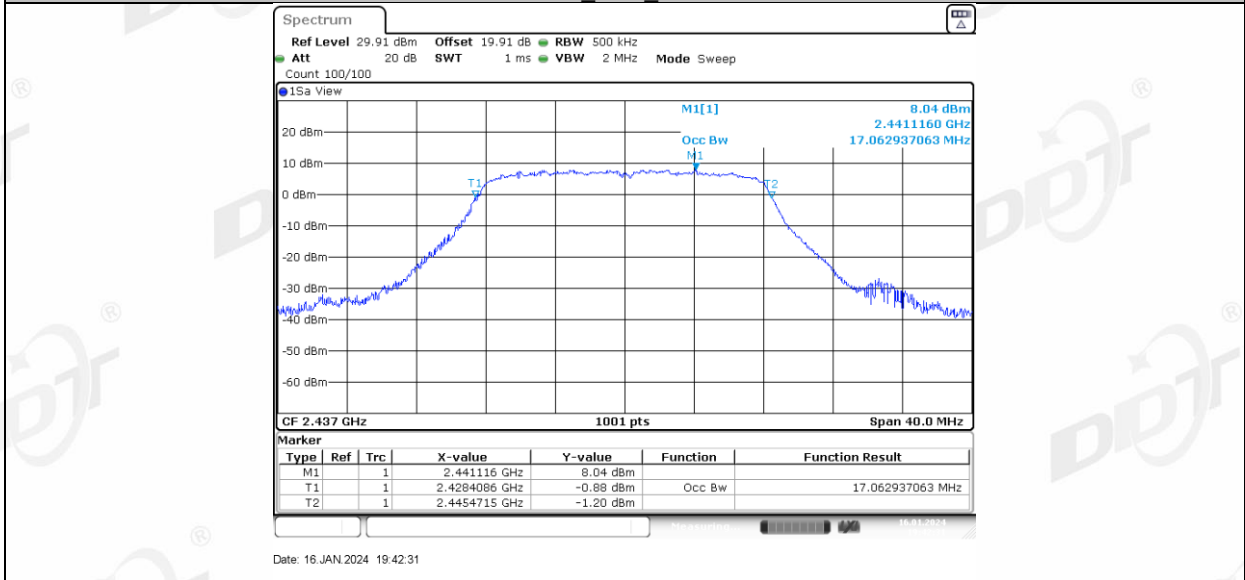




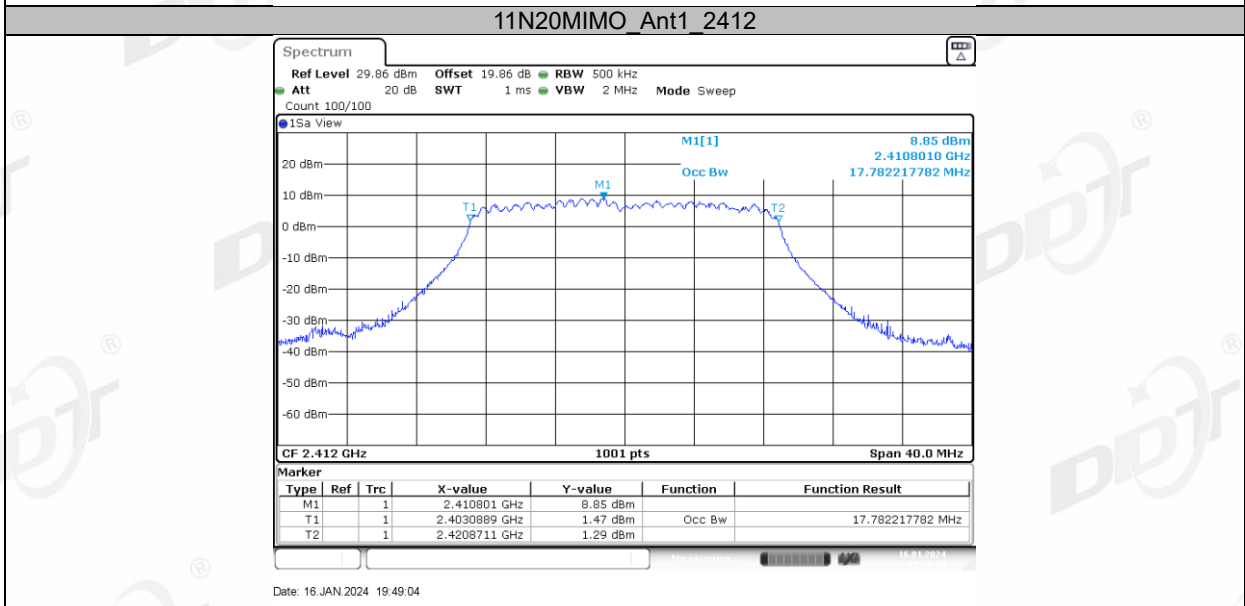
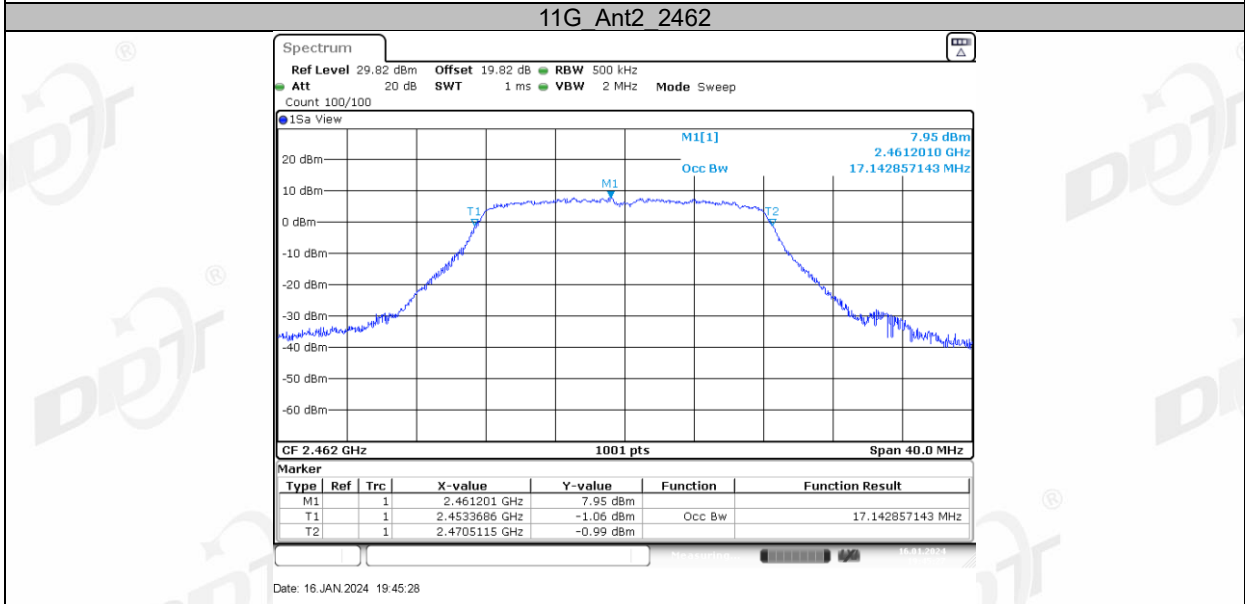
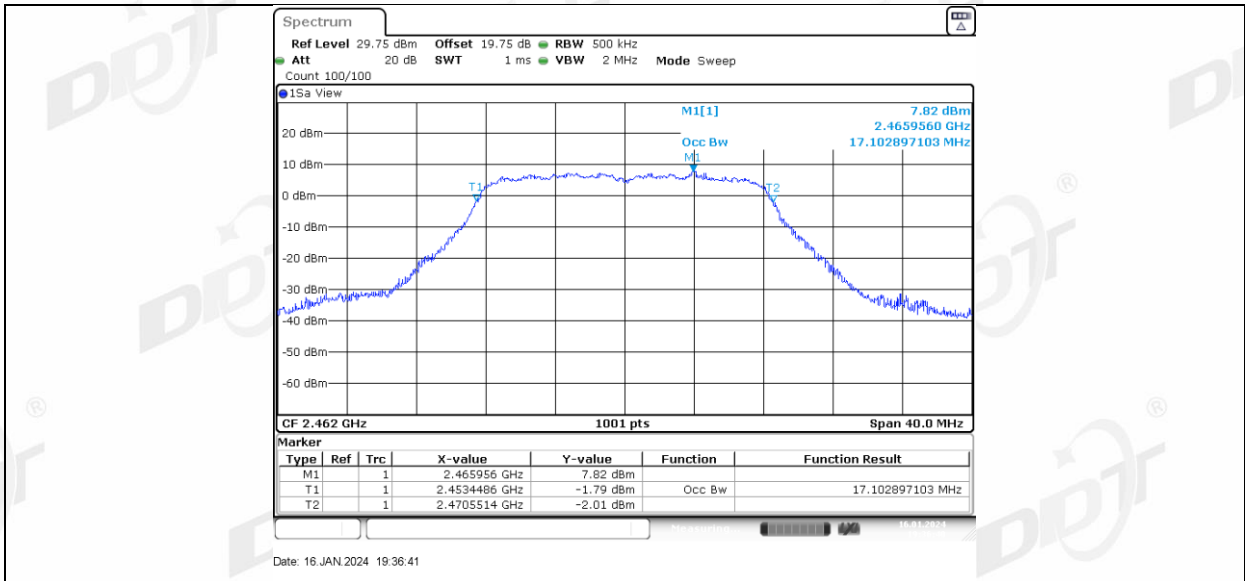
11G Ant1_2437

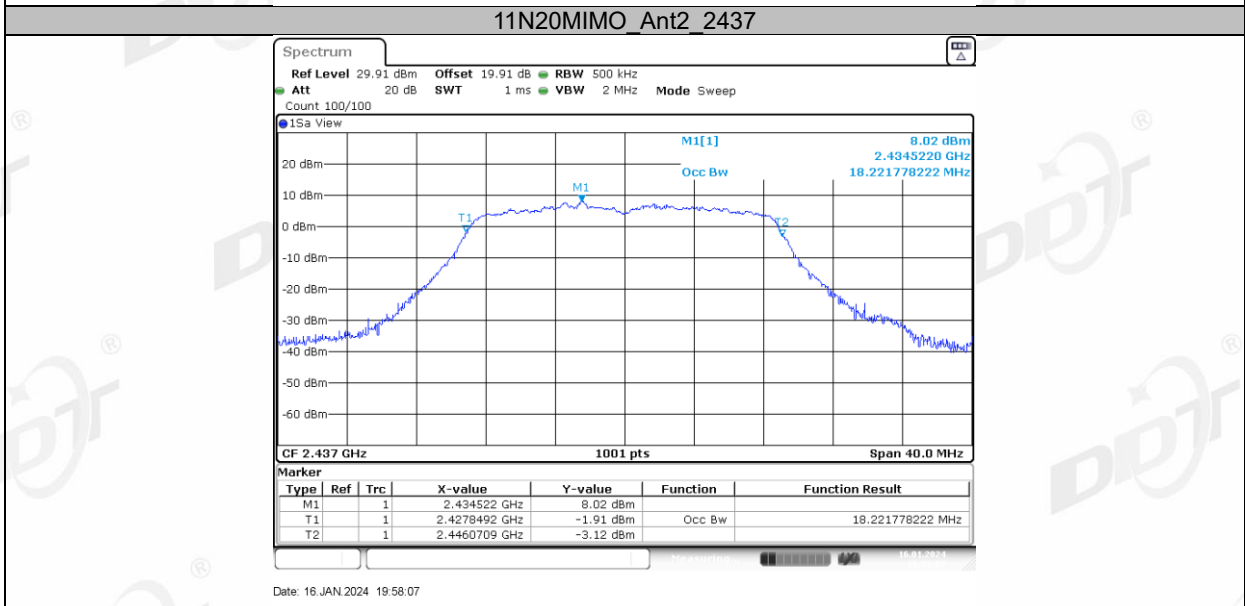
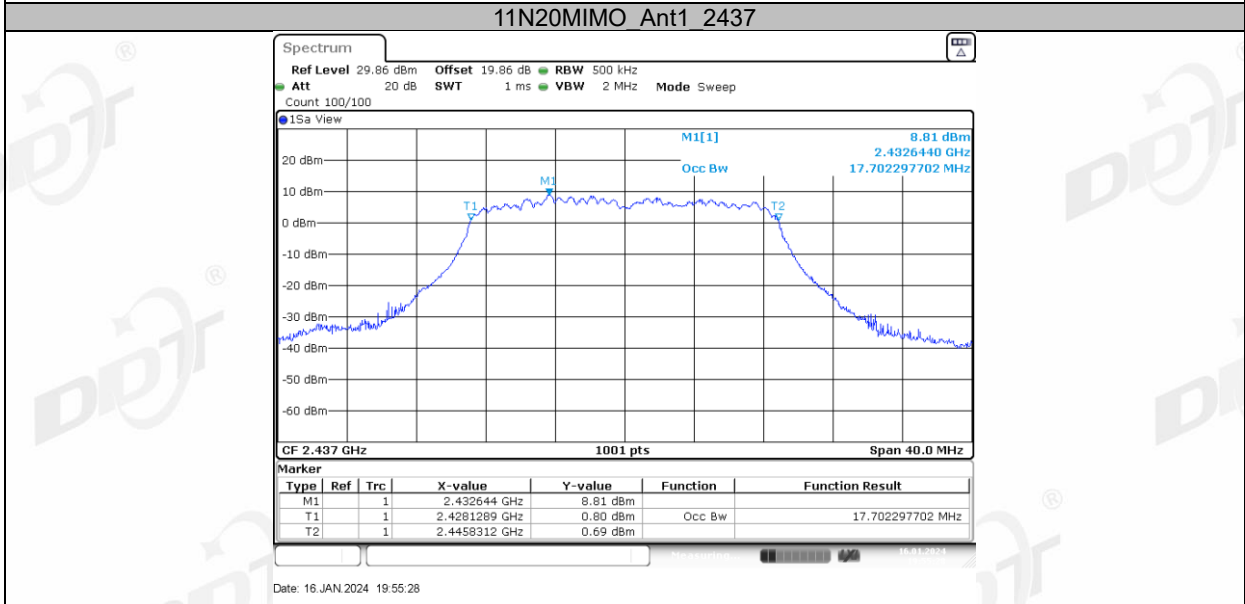
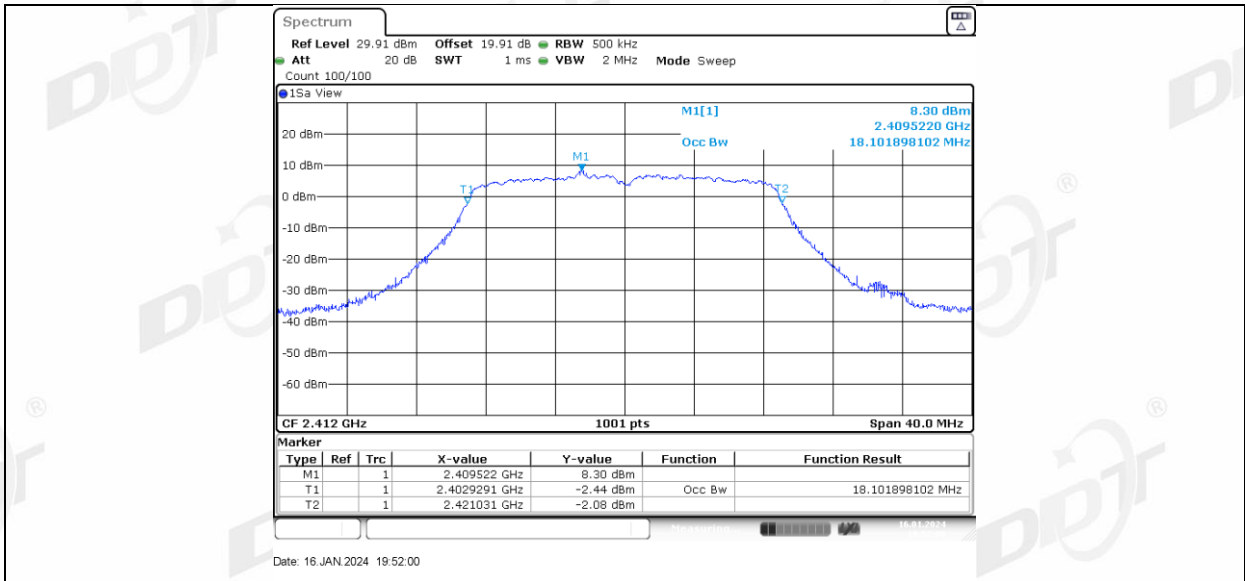


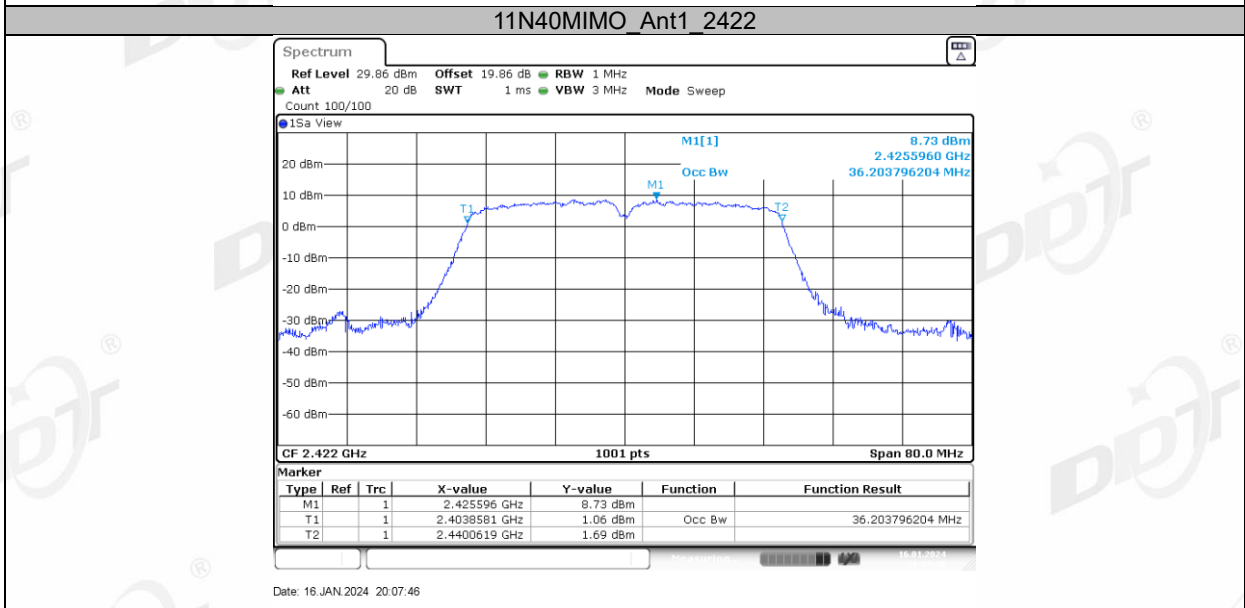
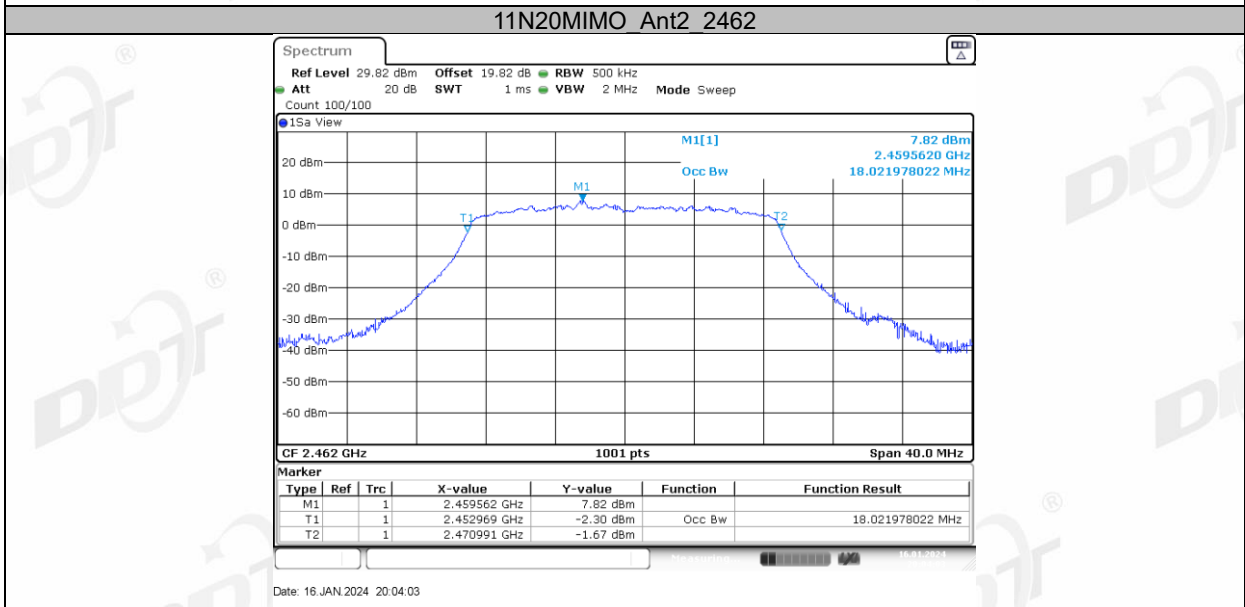
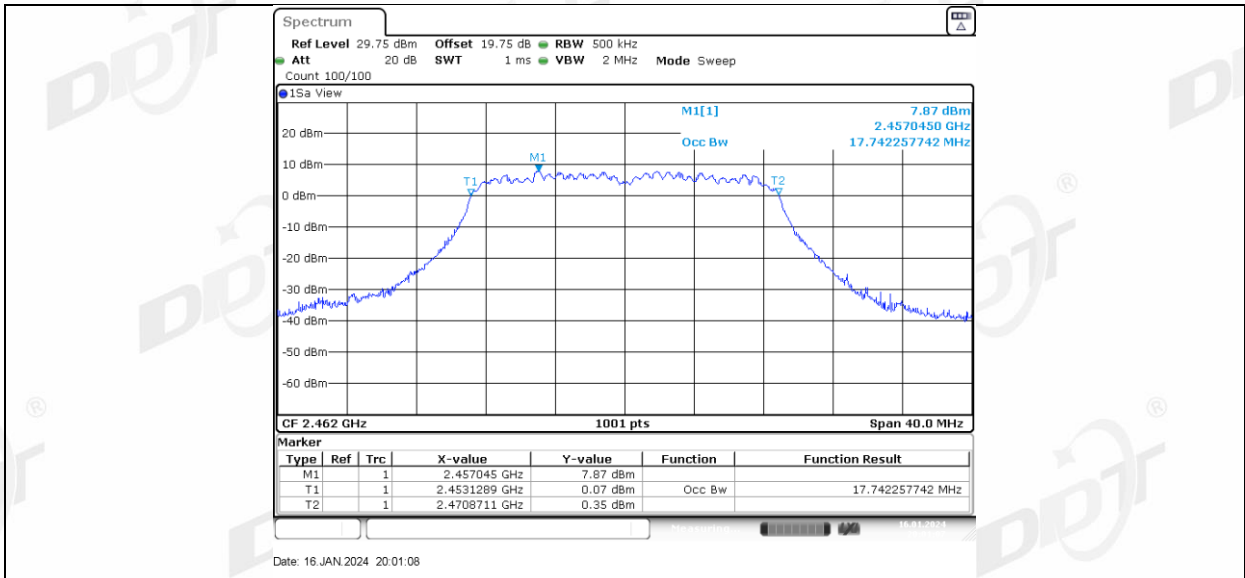
11G Ant2_2437

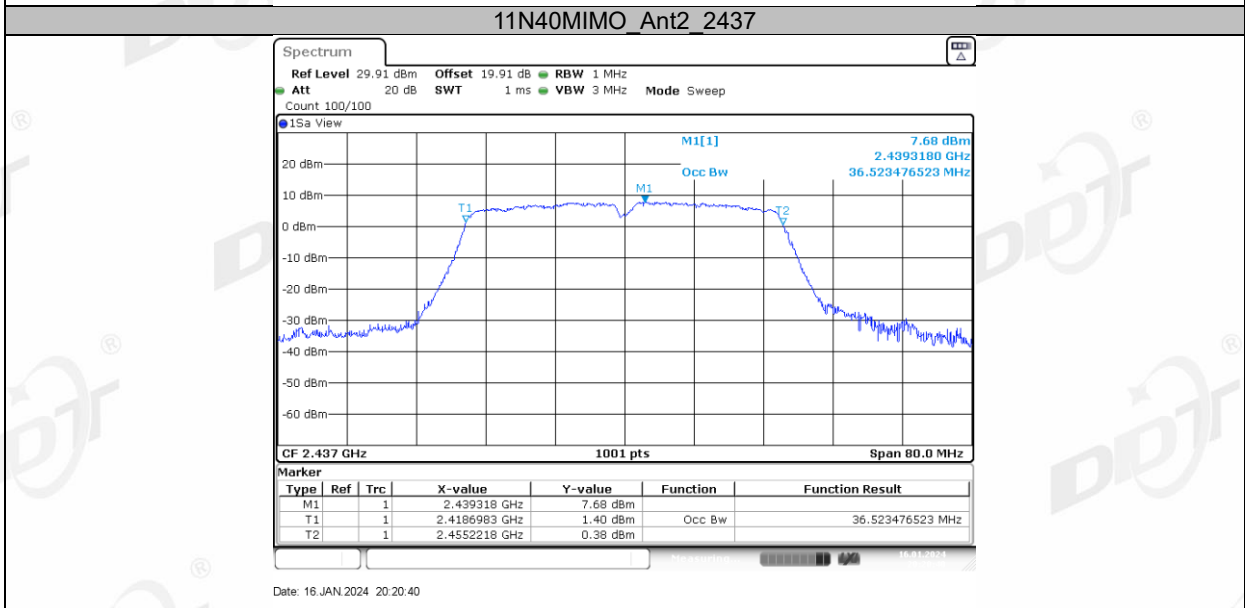
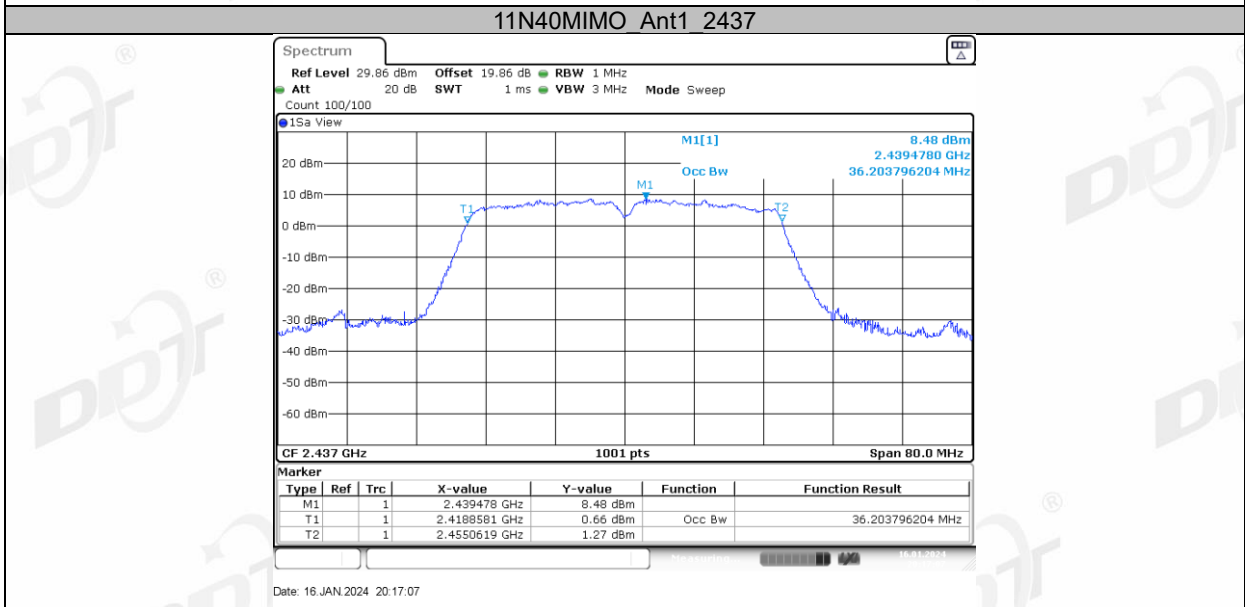
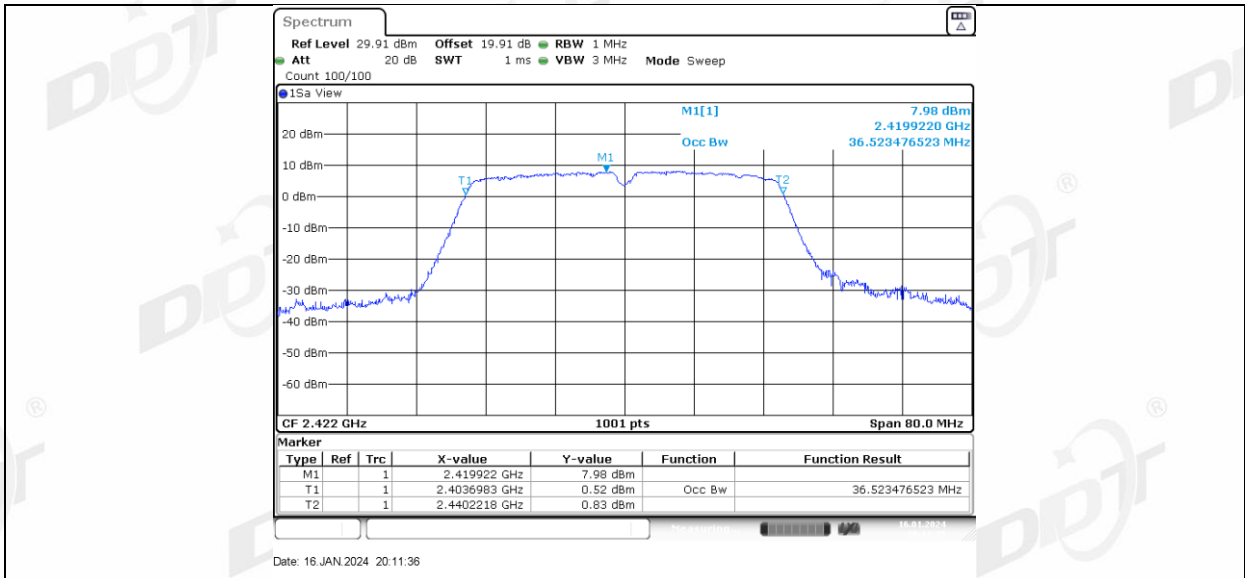


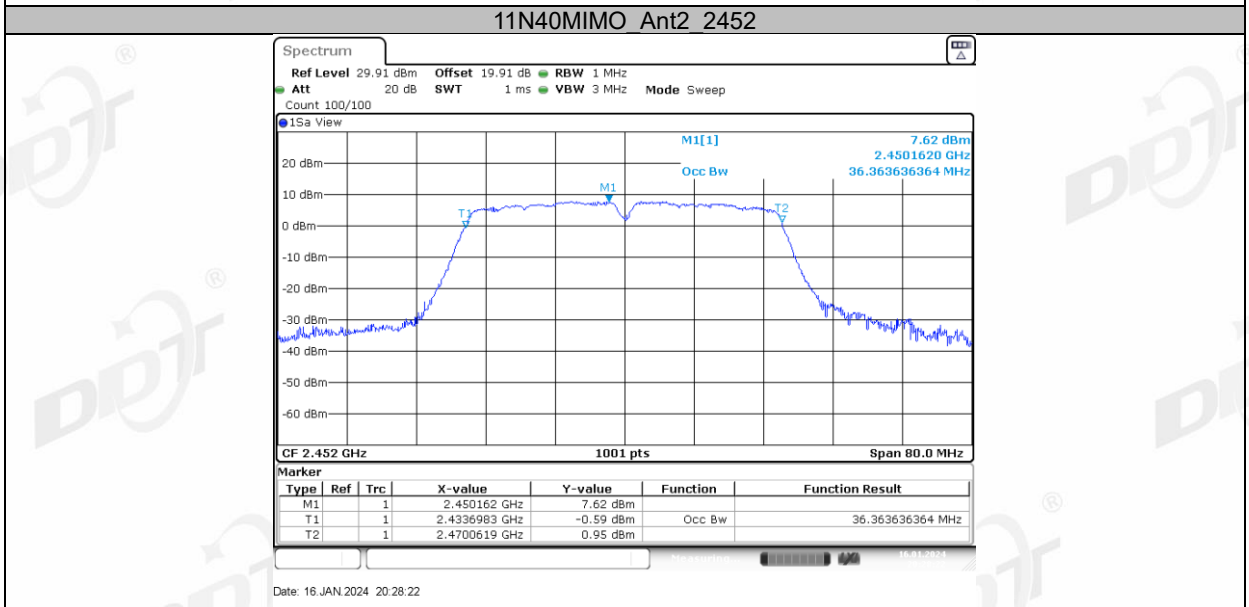
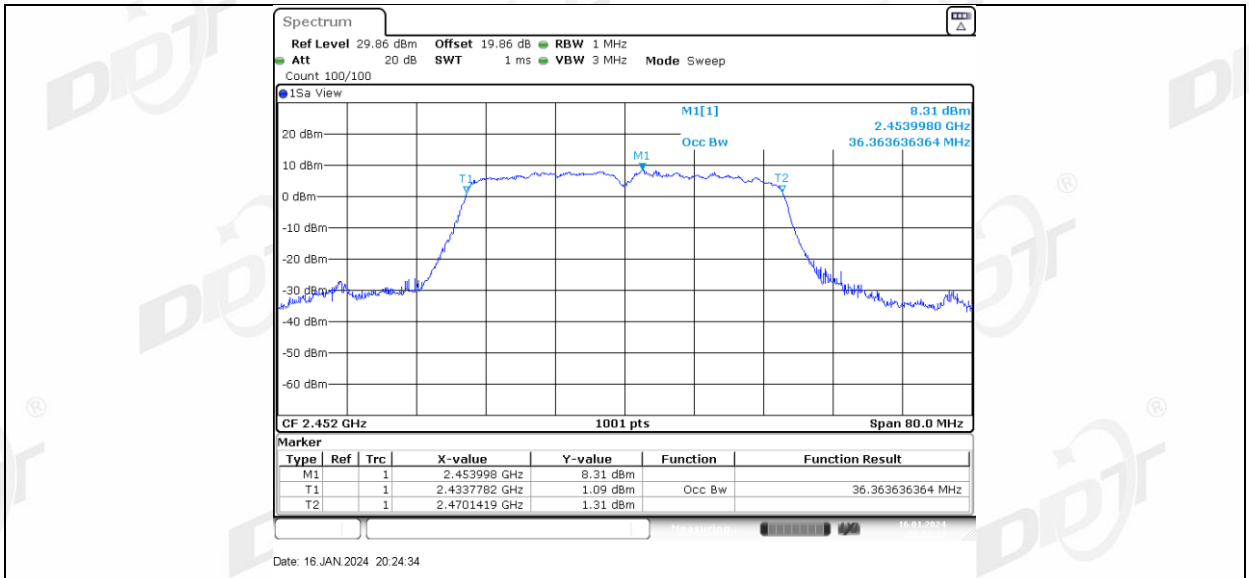
11G Ant1_2462





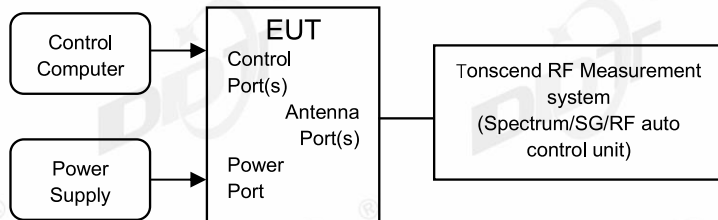






6. Conducted Output Power

6.1. Block diagram of test setup



6.2. Limits

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. 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 as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 11.9.2.3.
- (2) Connect EUT's antenna output to RF power meter by RF cable, the path loss was compensated to the results.
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously, If the transmitter does not transmit continuously, measure the duty cycle, D, of the transmitter output signal.
- (4) Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
- (5) Adjust the measurement in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle.
- (6) Record the RF average power of each antenna port.

6.4. Test result average

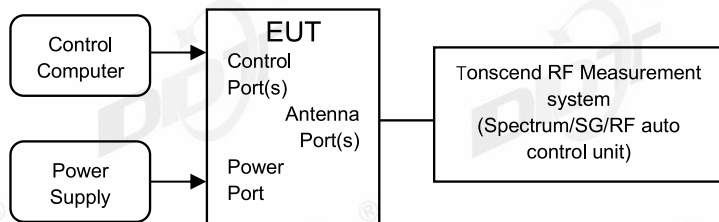
Test Engineer:	Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	23.3°C,50.0%RH	Test Date:	2024.01.16
Test Power Supply:	DC 5V	EUT:	Dynalink 4K Streaming Box
Sample Number:	S23041927-02	Model No.:	DL-GT36

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant1	2412	19.48	96.88	0.14	19.62	≤28.07	22.54	≤34.07	PASS
	Ant2	2412	19.75	96.96	0.13	19.88	≤28.07	22.74	≤34.07	PASS
	Ant1	2437	19.52	96.74	0.14	19.66	≤28.07	22.58	≤34.07	PASS
	Ant2	2437	20.26	96.36	0.16	20.42	≤28.07	23.28	≤34.07	PASS
	Ant1	2462	19.24	96.88	0.14	19.38	≤28.07	22.30	≤34.07	PASS
	Ant2	2462	20.57	96.58	0.15	20.72	≤28.07	23.58	≤34.07	PASS
11G	Ant1	2412	14.91	91.59	0.38	15.29	≤28.07	18.21	≤34.07	PASS
	Ant2	2412	15.06	95.39	0.20	15.26	≤28.07	18.12	≤34.07	PASS
	Ant1	2437	14.33	93.21	0.31	14.64	≤28.07	17.56	≤34.07	PASS
	Ant2	2437	14.58	90.75	0.42	15.00	≤28.07	17.86	≤34.07	PASS
	Ant1	2462	14.08	91.59	0.38	14.46	≤28.07	17.38	≤34.07	PASS
	Ant2	2462	14.58	90.79	0.42	15.00	≤28.07	17.86	≤34.07	PASS
11N20MIMO	Ant1	2412	14.03	84.62	0.73	14.76	≤28.07	17.68	≤34.07	PASS
	Ant2	2412	14.05	89.09	0.50	14.55	≤28.07	17.41	≤34.07	PASS
	total	2412	---	---	---	17.67	≤28.07	20.56	≤34.07	PASS
	Ant1	2437	13.28	81.67	0.88	14.16	≤28.07	17.08	≤34.07	PASS
	Ant2	2437	13.46	81.15	0.91	14.37	≤28.07	17.23	≤34.07	PASS
	total	2437	---	---	---	17.28	≤28.07	20.17	≤34.07	PASS
	Ant1	2462	12.86	81.82	0.87	13.73	≤28.07	16.65	≤34.07	PASS
	Ant2	2462	13.44	87.61	0.57	14.01	≤28.07	16.87	≤34.07	PASS
total	2462	---	---	---	16.88	≤28.07	19.77	≤34.07	PASS	
11N40MIMO	Ant1	2422	13.44	68.49	1.64	15.08	≤28.07	18.00	≤34.07	PASS
	Ant2	2422	13.82	69.01	1.61	15.43	≤28.07	18.29	≤34.07	PASS
	total	2422	---	---	---	18.27	≤28.07	21.16	≤34.07	PASS
	Ant1	2437	13.06	68.06	1.67	14.73	≤28.07	17.65	≤34.07	PASS
	Ant2	2437	13.26	69.44	1.58	14.84	≤28.07	17.70	≤34.07	PASS
	total	2437	---	---	---	17.80	≤28.07	20.69	≤34.07	PASS
	Ant1	2452	12.88	68.49	1.64	14.52	≤28.07	17.44	≤34.07	PASS
	Ant2	2452	13.28	74.63	1.27	14.55	≤28.07	17.41	≤34.07	PASS
total	2452	---	---	---	17.55	≤28.07	20.44	≤34.07	PASS	

Note: EIRP (dBm)=Conducted Output Power (dBm)+ Antenna Gain (dBi)

7. Power Spectral Density

7.1. Block diagram of test setup



7.2. Limits

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

7.3. Test procedure

- (1) The test according to ANSI C63.10-2013 clause 11.10.5.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results.
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously.
- (4) Use the following spectrum analyzer settings for Power Spectral Density measurement:

Center frequency	DTS Channel center frequency
RBW:	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW:	$\geq 3\text{RBW}$
Span	1.5 times the DTS bandwidth
Detector Mode:	RMS
Sweep time:	auto
Trace mode	max hold
	Employ trace averaging (rms)
Trace	mode over a minimum of 100 traces.

- (5) Add $[10 \log (1 / D)]$, where D is the duty cycle measured in step a), to the measured PSD to compute the average PSD during the actual transmission time.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

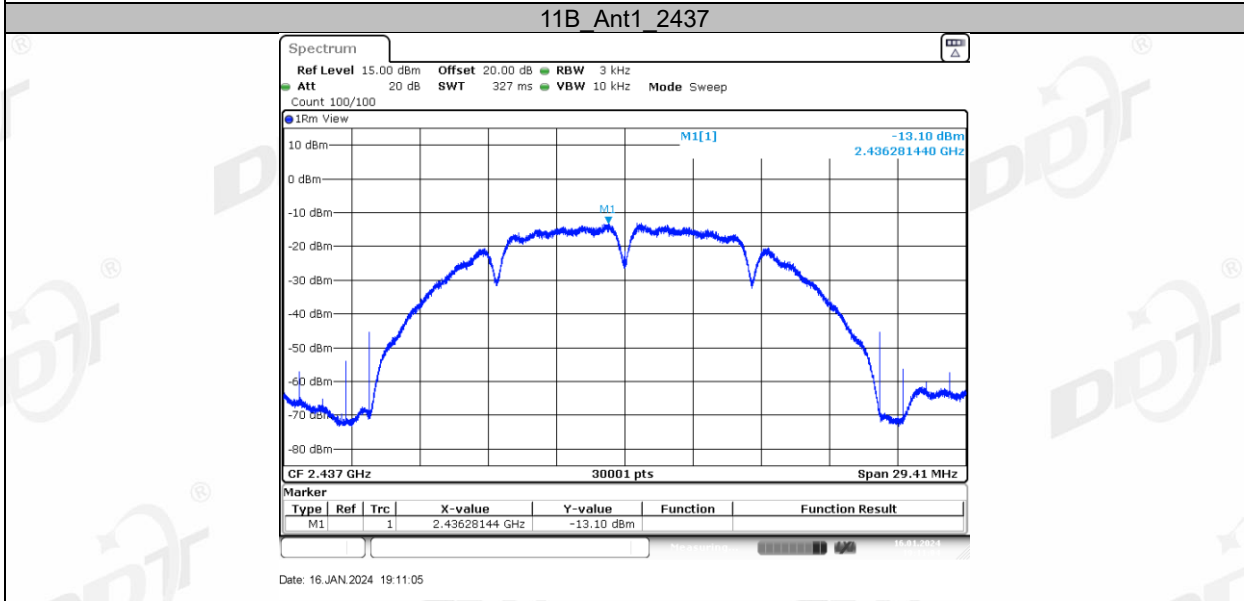
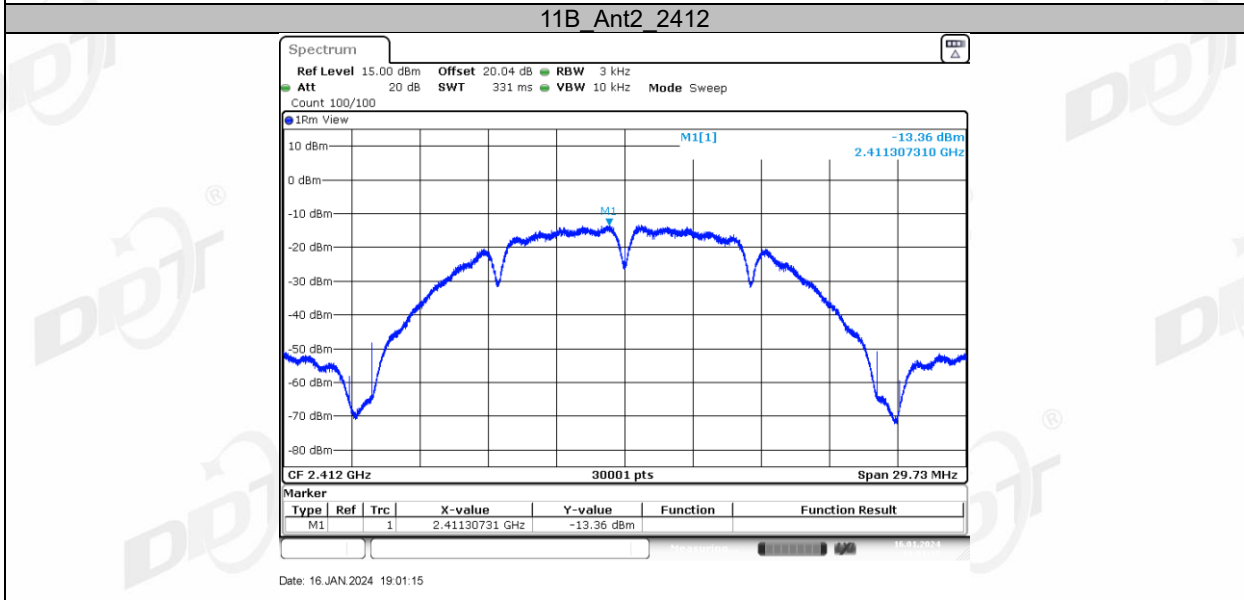
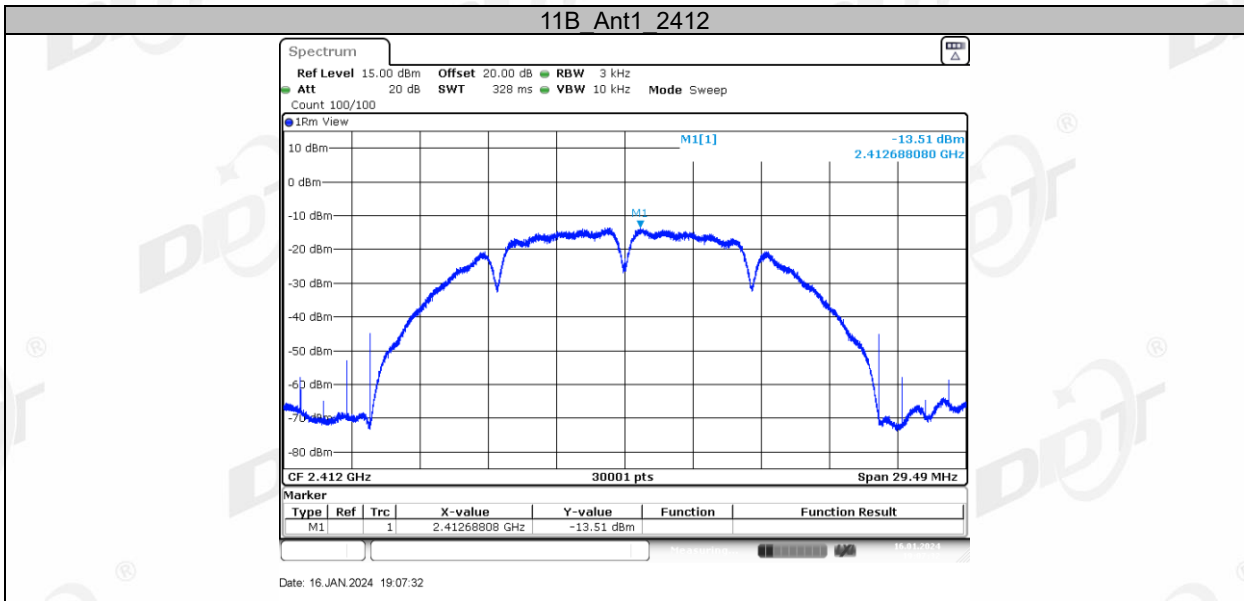
7.4. Test result

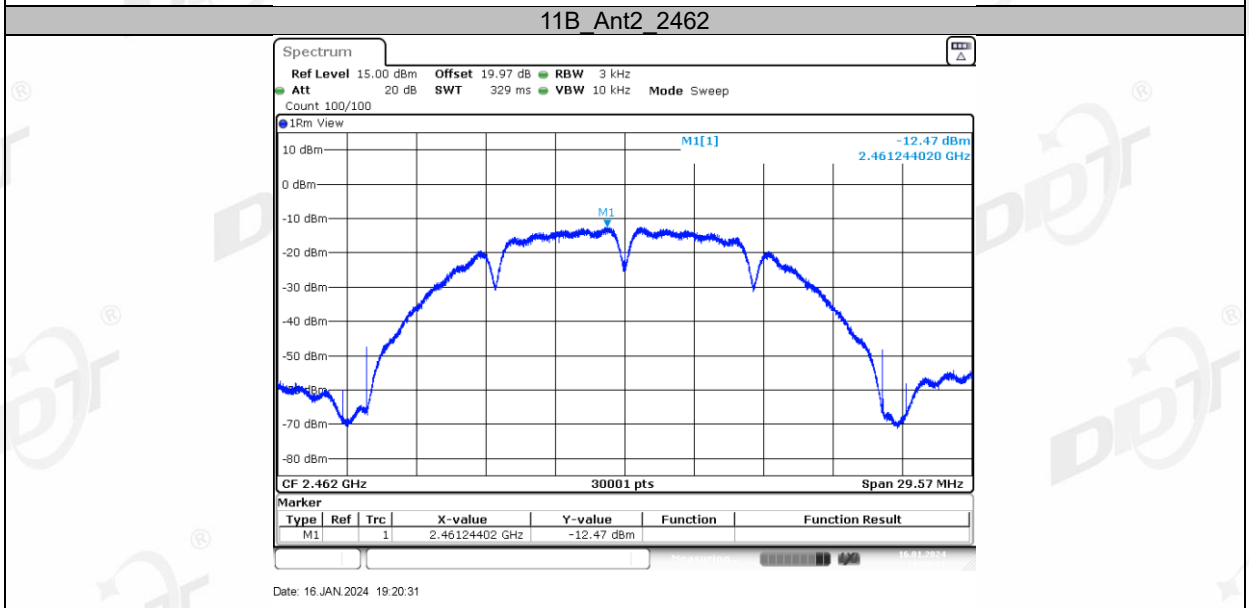
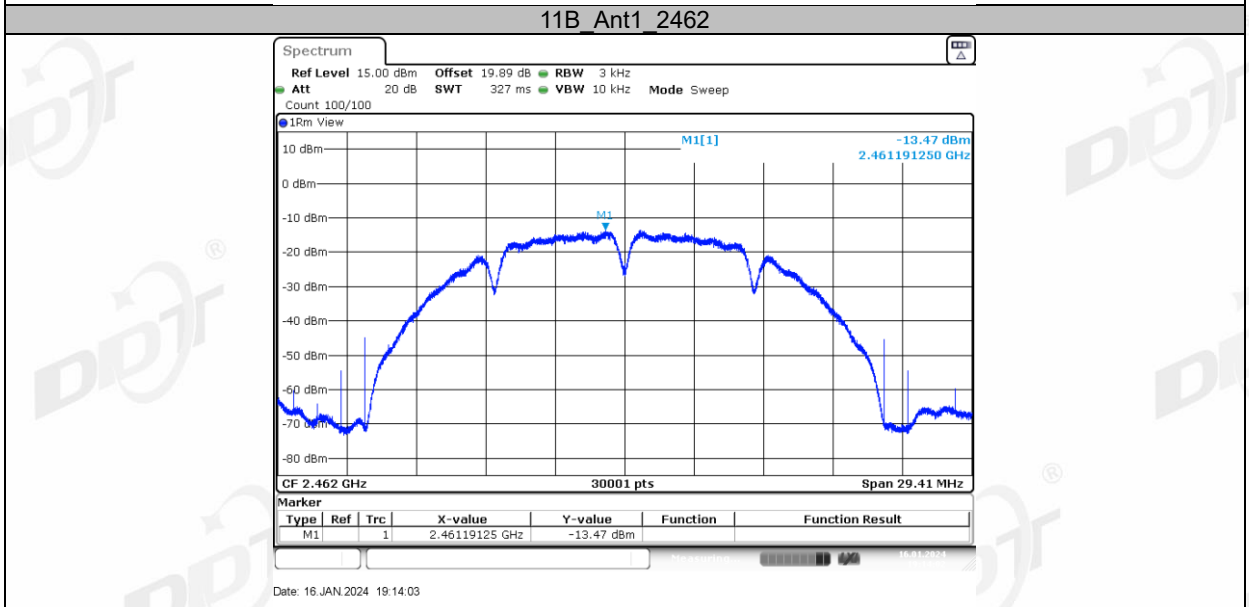
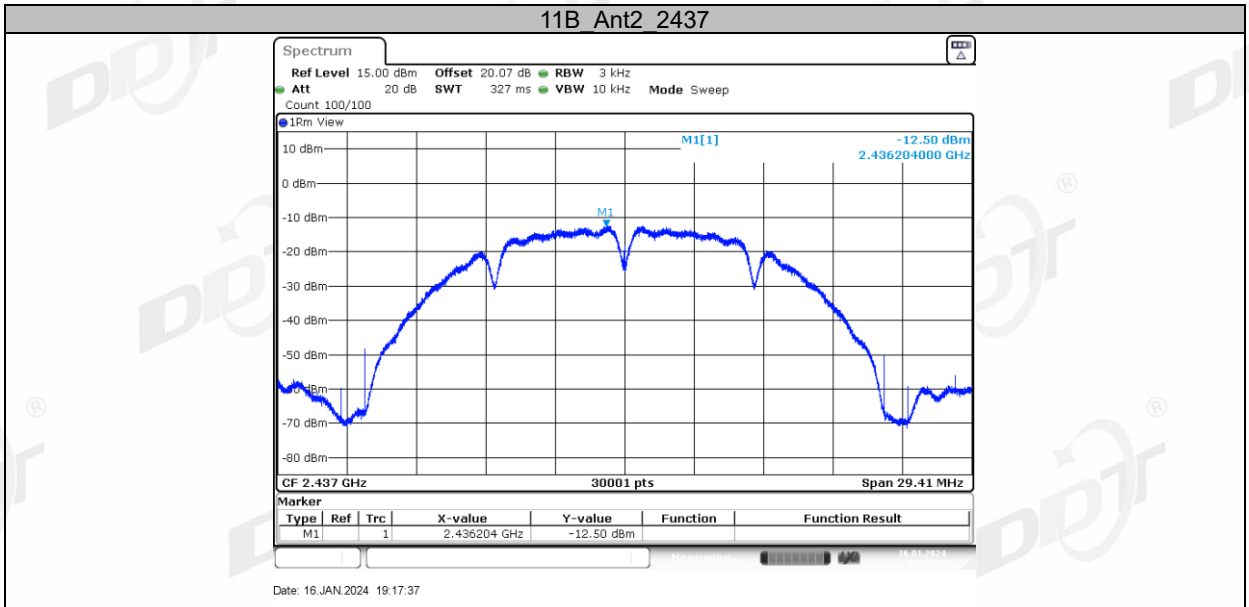
Test Engineer:	Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	23.3°C, 50.0%RH	Test Date:	2024.01.16
Test Power Supply:	DC 5V	EUT:	Dynalink 4K Streaming Box
Sample Number:	S23041927-02	Model No.:	DL-GT36

Test Mode	Antenna	Frequency [MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-13.51	≤8.00	PASS
	Ant2	2412	-13.36	≤8.00	PASS
	Ant1	2437	-13.10	≤8.00	PASS
	Ant2	2437	-12.50	≤8.00	PASS
	Ant1	2462	-13.47	≤8.00	PASS
	Ant2	2462	-12.47	≤8.00	PASS
11G	Ant1	2412	-16.25	≤8.00	PASS
	Ant2	2412	-16.42	≤8.00	PASS
	Ant1	2437	-17.08	≤8.00	PASS
	Ant2	2437	-15.86	≤8.00	PASS
	Ant1	2462	-17.19	≤8.00	PASS
	Ant2	2462	-16.76	≤8.00	PASS
11N20MIMO	Ant1	2412	-15.69	≤8.00	PASS
	Ant2	2412	-16.81	≤8.00	PASS
	total	2412	-13.20	≤8.00	PASS
	Ant1	2437	-16.51	≤8.00	PASS
	Ant2	2437	-15.87	≤8.00	PASS
	total	2437	-13.17	≤8.00	PASS
	Ant1	2462	-16.97	≤8.00	PASS
	Ant2	2462	-16.77	≤8.00	PASS
total	2462	-13.86	≤8.00	PASS	
11N40MIMO	Ant1	2422	-22.85	≤8.00	PASS
	Ant2	2422	-22.81	≤8.00	PASS
	total	2422	-19.82	≤8.00	PASS
	Ant1	2437	-23.37	≤8.00	PASS
	Ant2	2437	-23.09	≤8.00	PASS
	total	2437	-20.22	≤8.00	PASS
	Ant1	2452	-23.62	≤8.00	PASS
	Ant2	2452	-22.17	≤8.00	PASS
	total	2452	-19.82	≤8.00	PASS

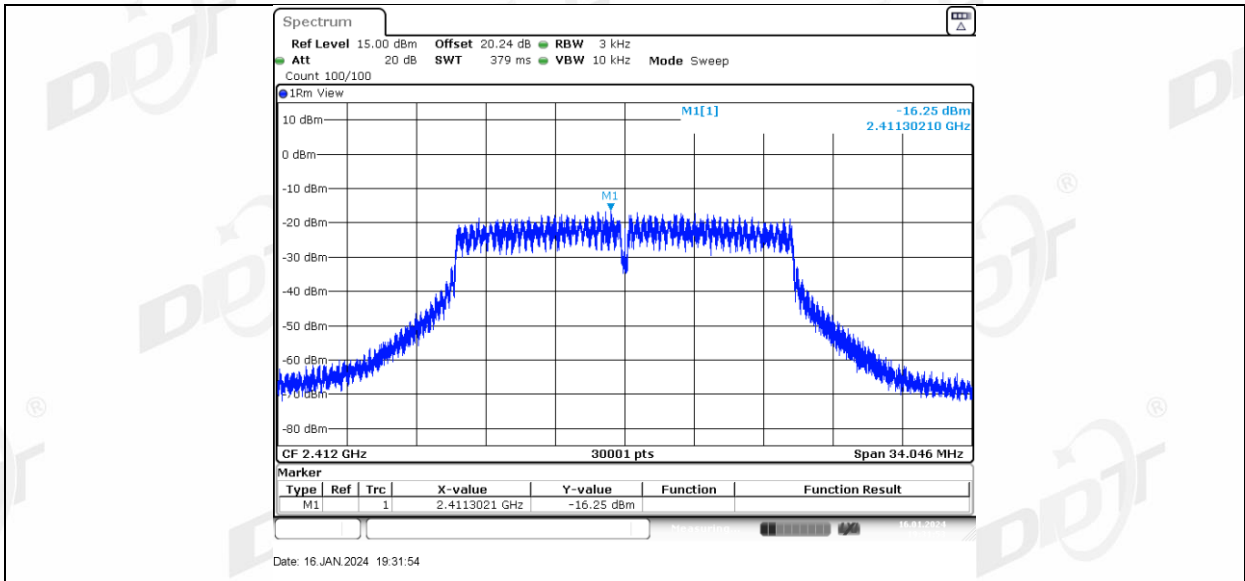
Note: The Duty Cycle Factor is compensated in the graph.

7.5. Test graphs

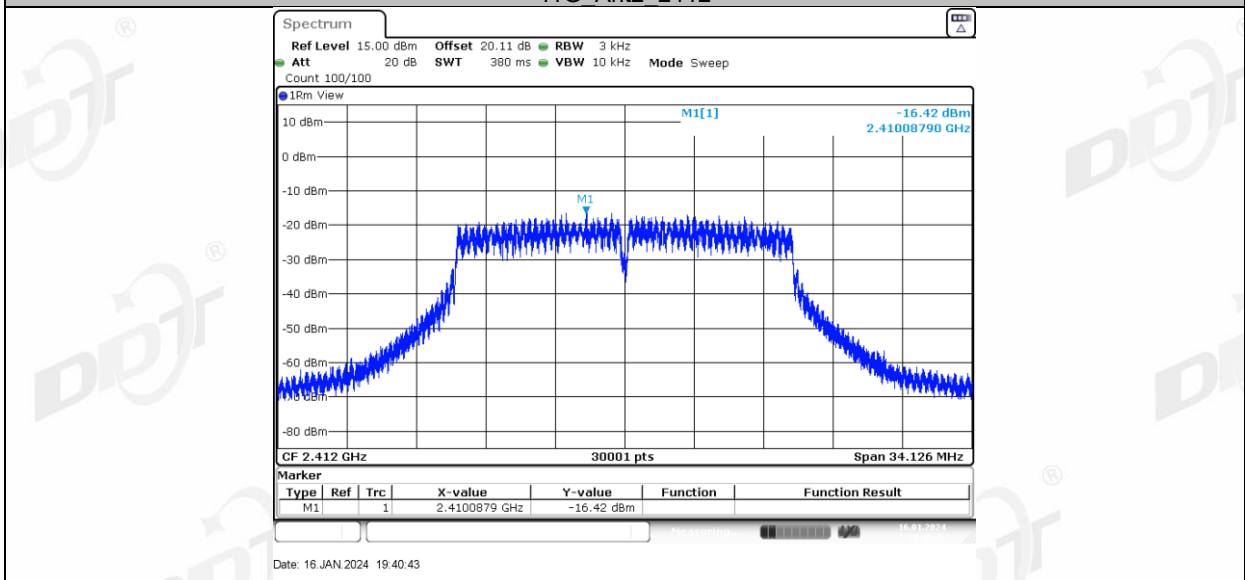




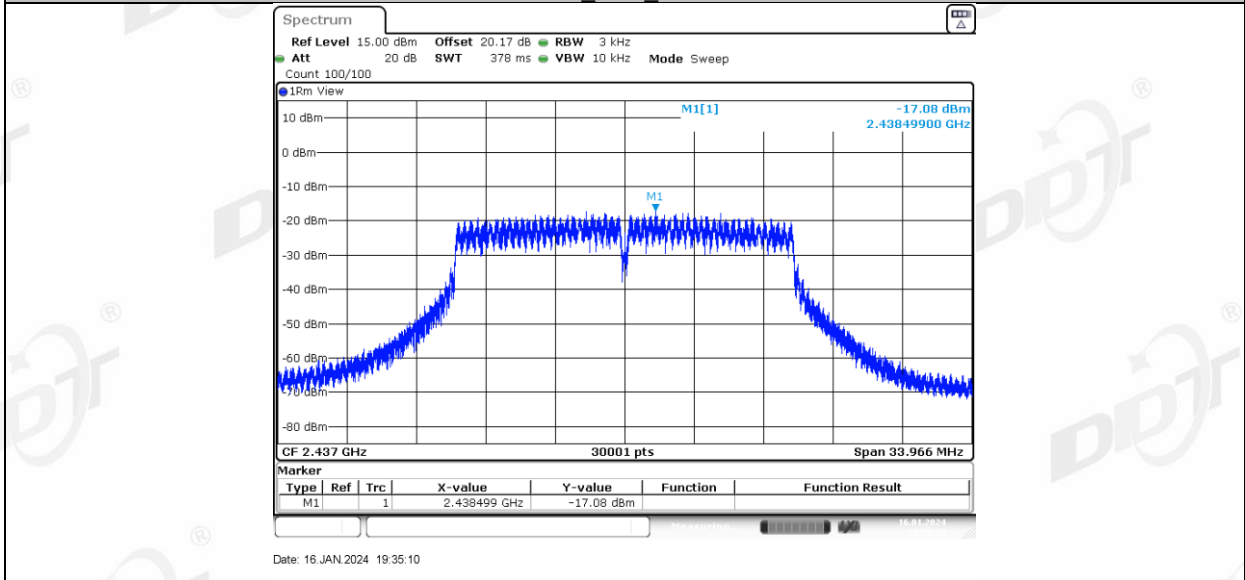
11G_Ant1_2412



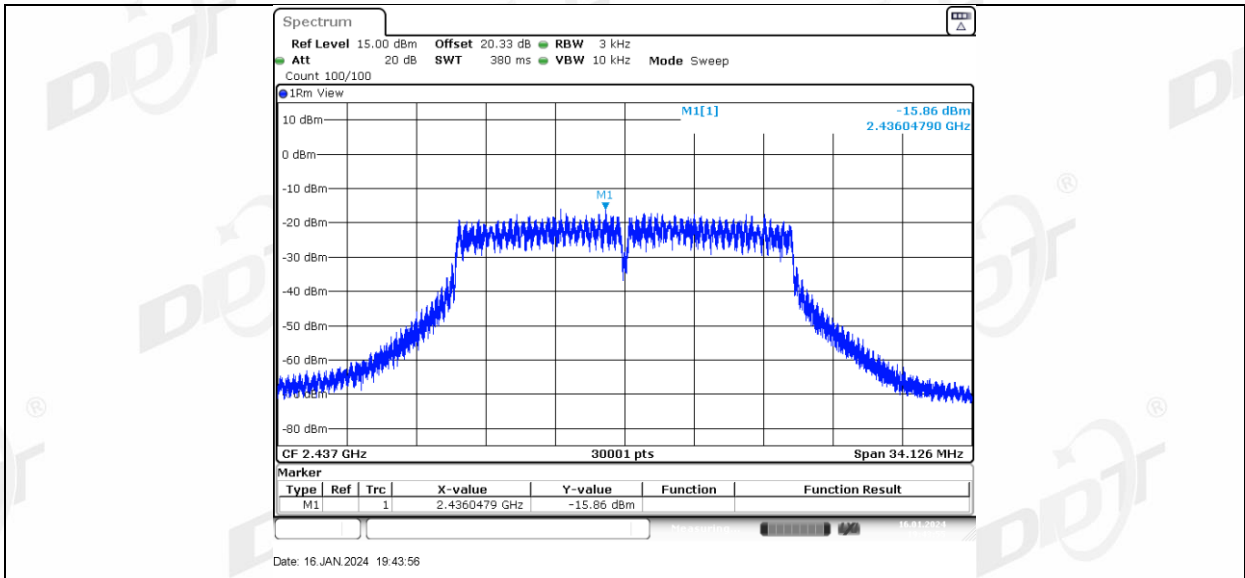
11G Ant2 2412



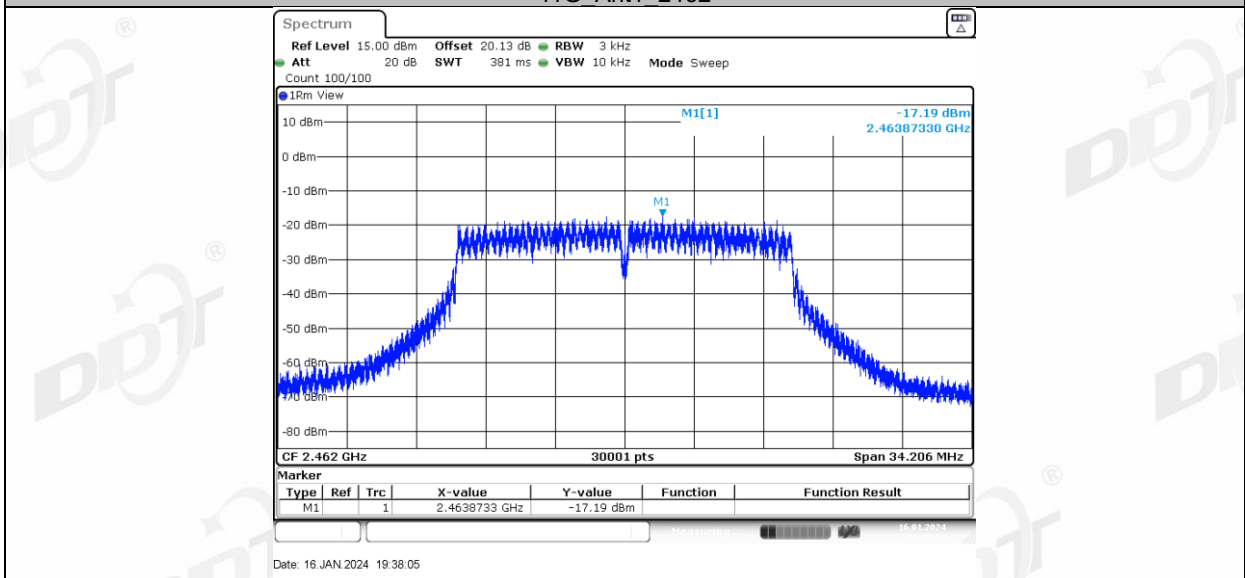
11G Ant1 2437



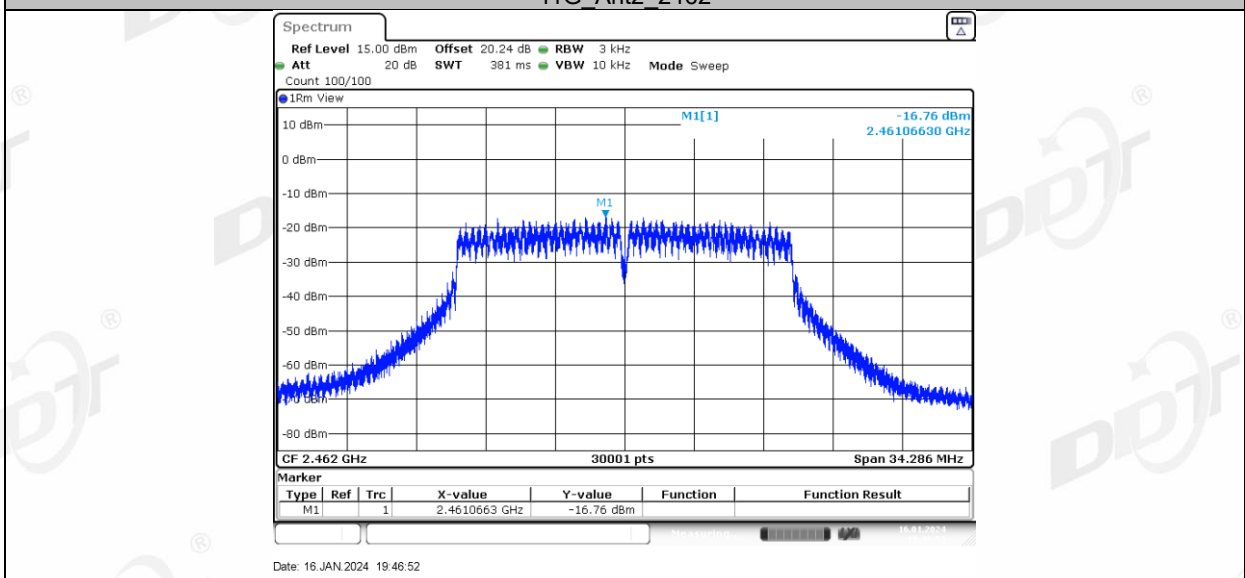
11G Ant2 2437



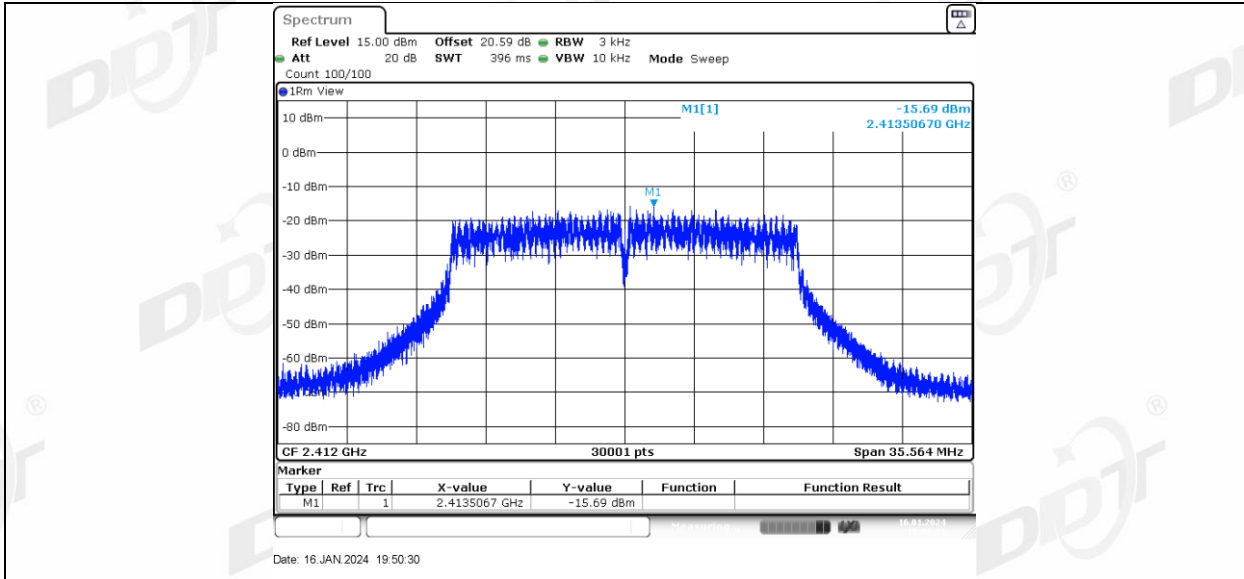
11G Ant1_2462



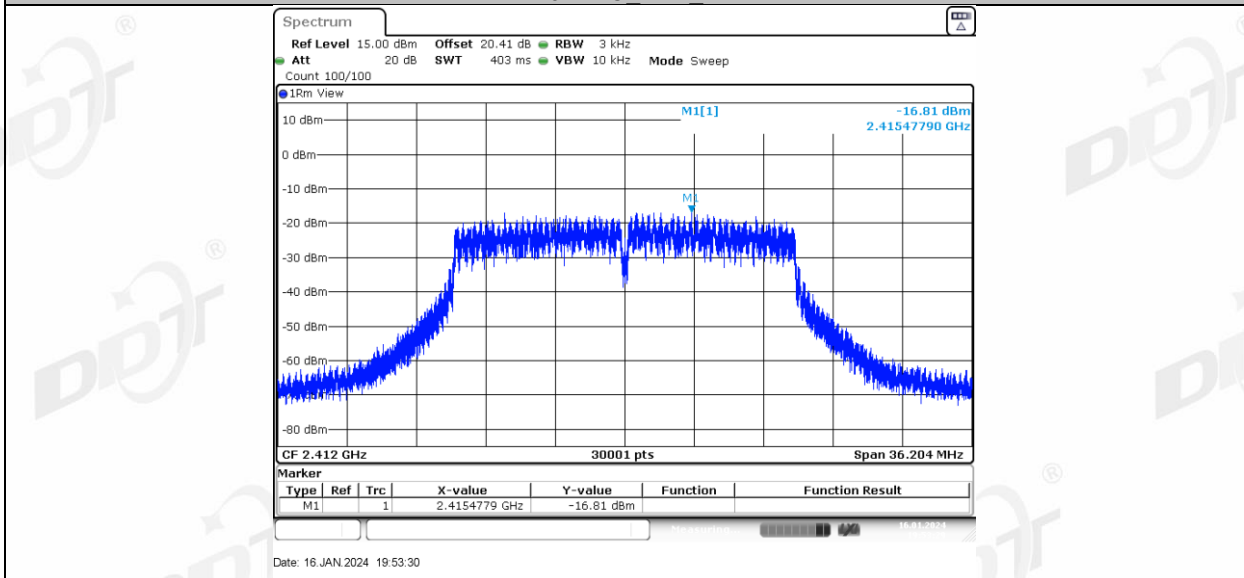
11G Ant2_2462



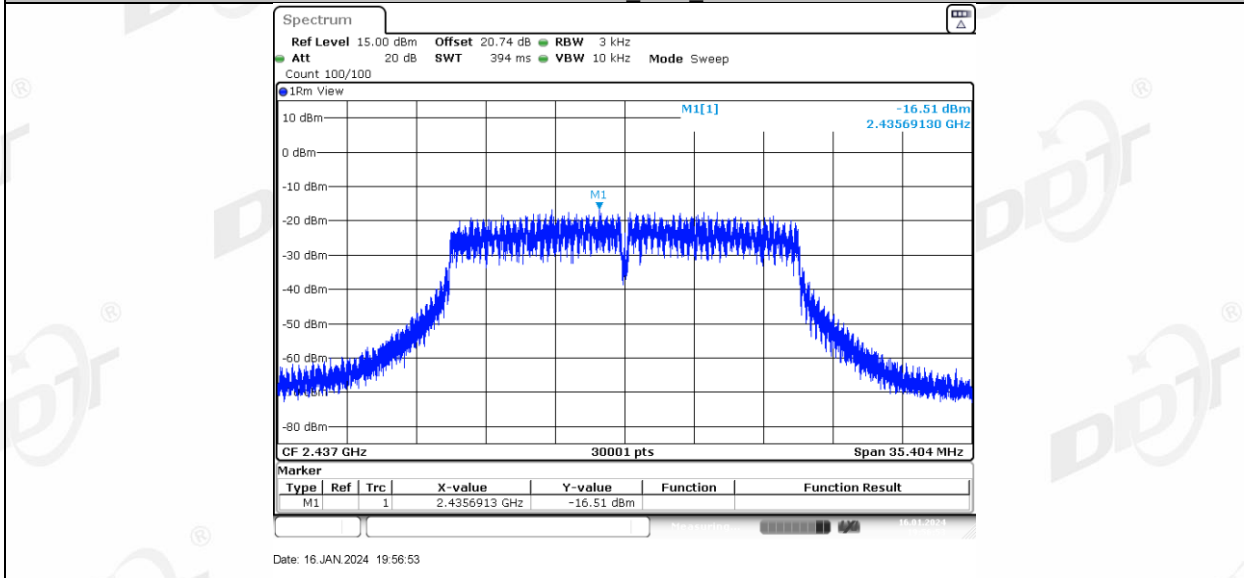
11N20MIMO_Ant1_2412



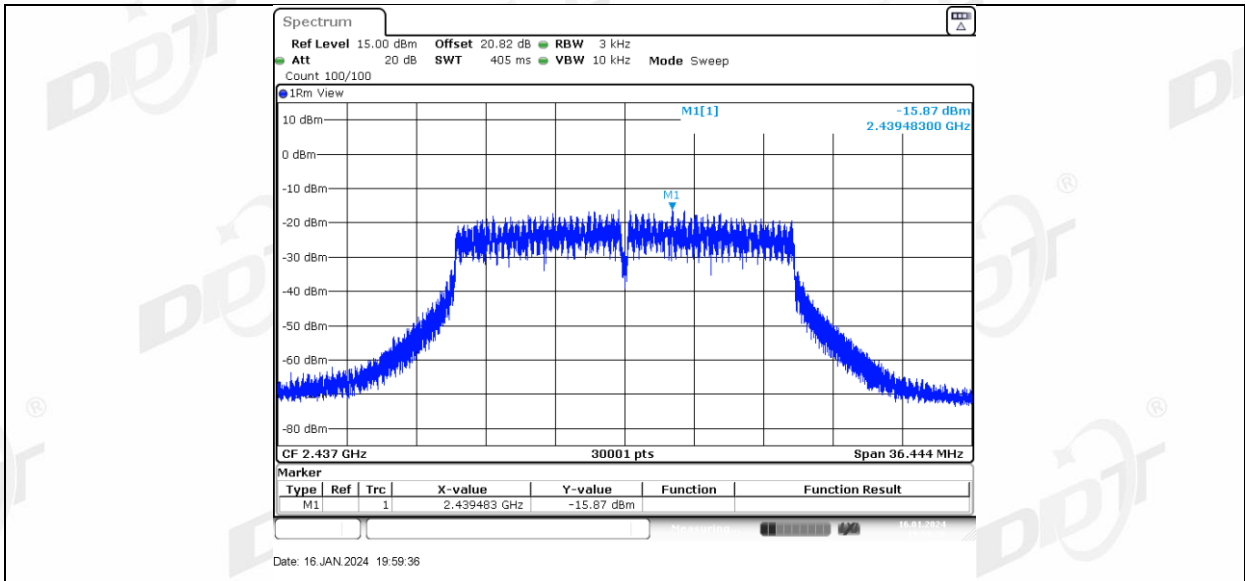
11N20MIMO Ant2_2412



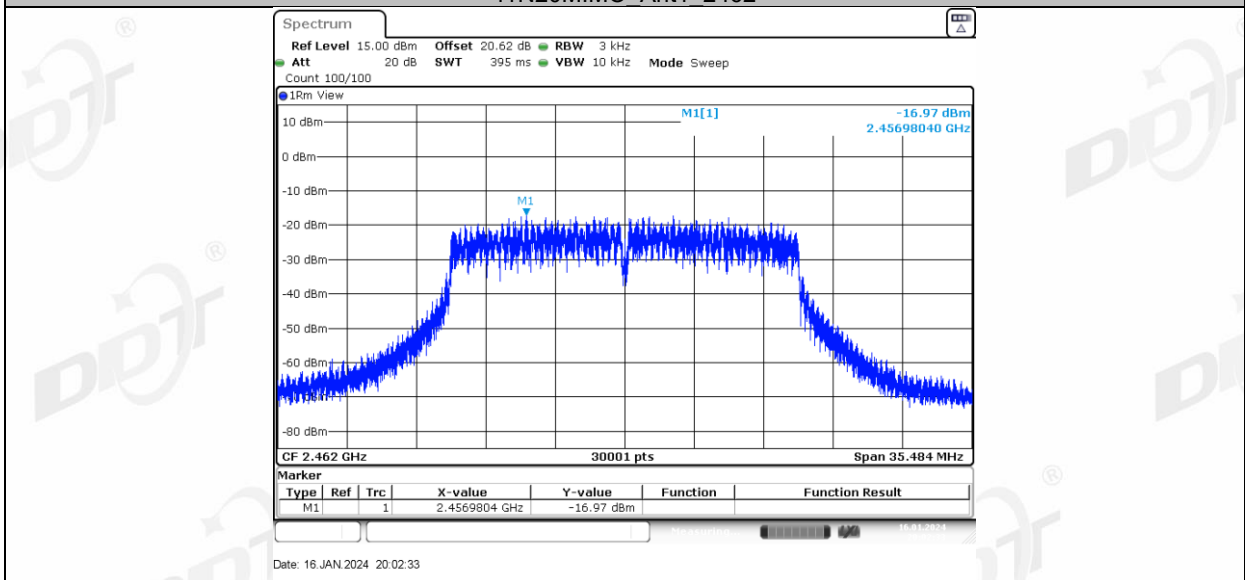
11N20MIMO Ant1_2437



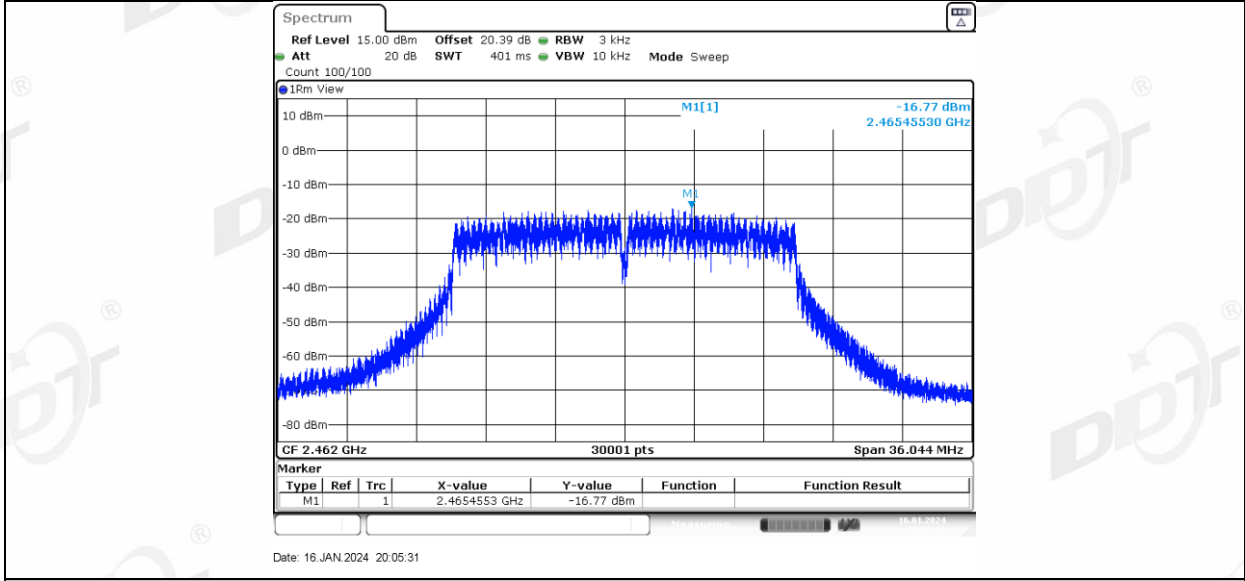
11N20MIMO Ant2_2437



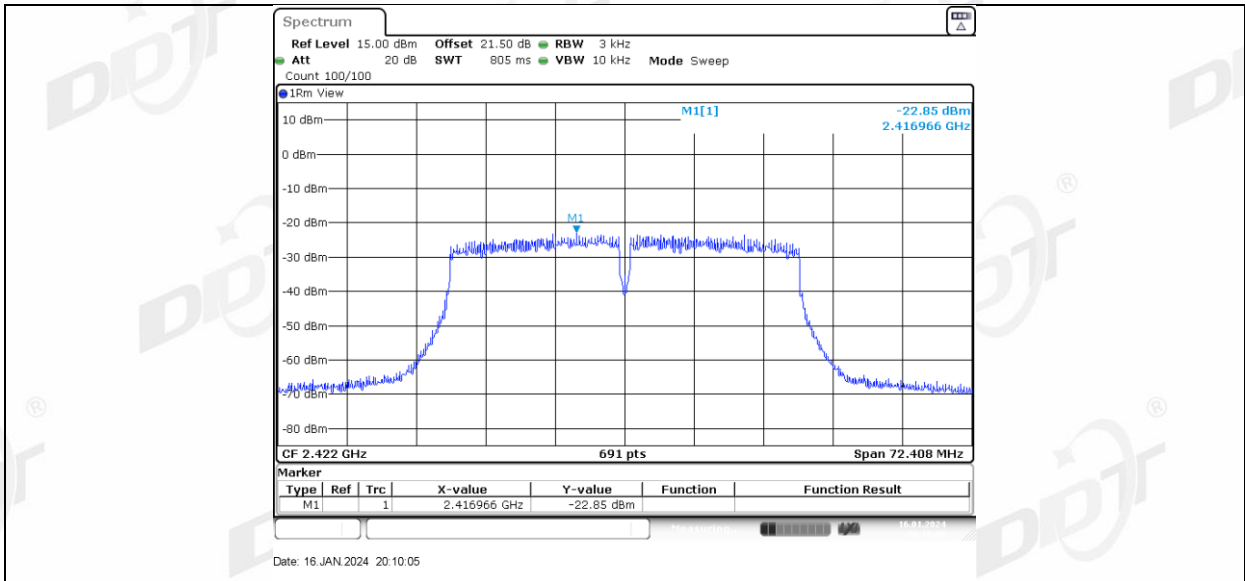
11N20MIMO Ant1_2462



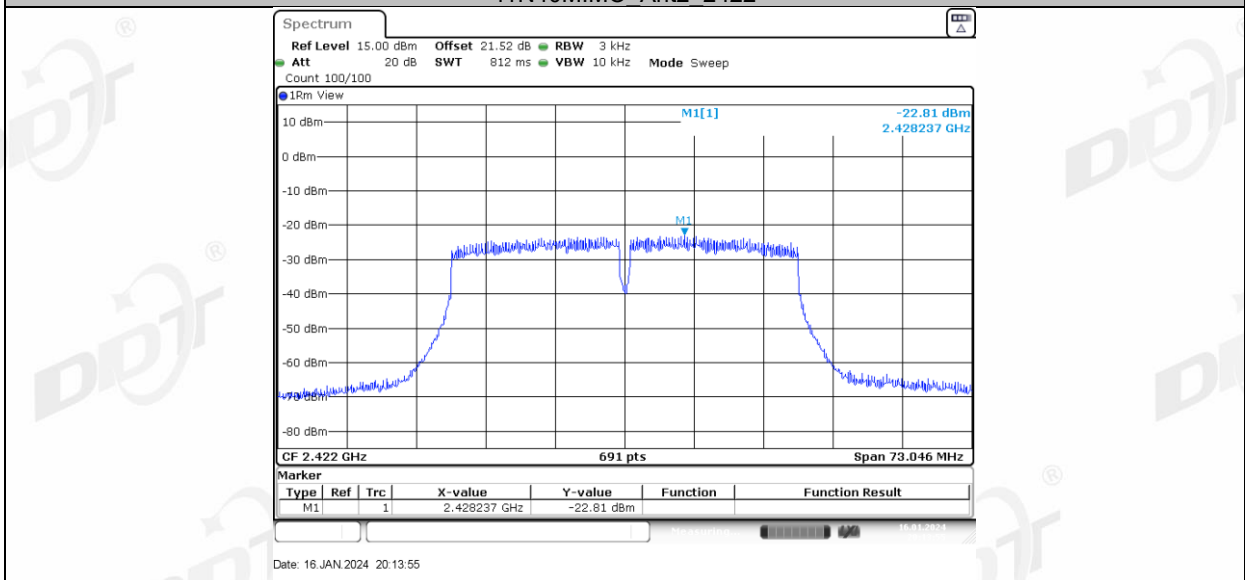
11N20MIMO Ant2_2462



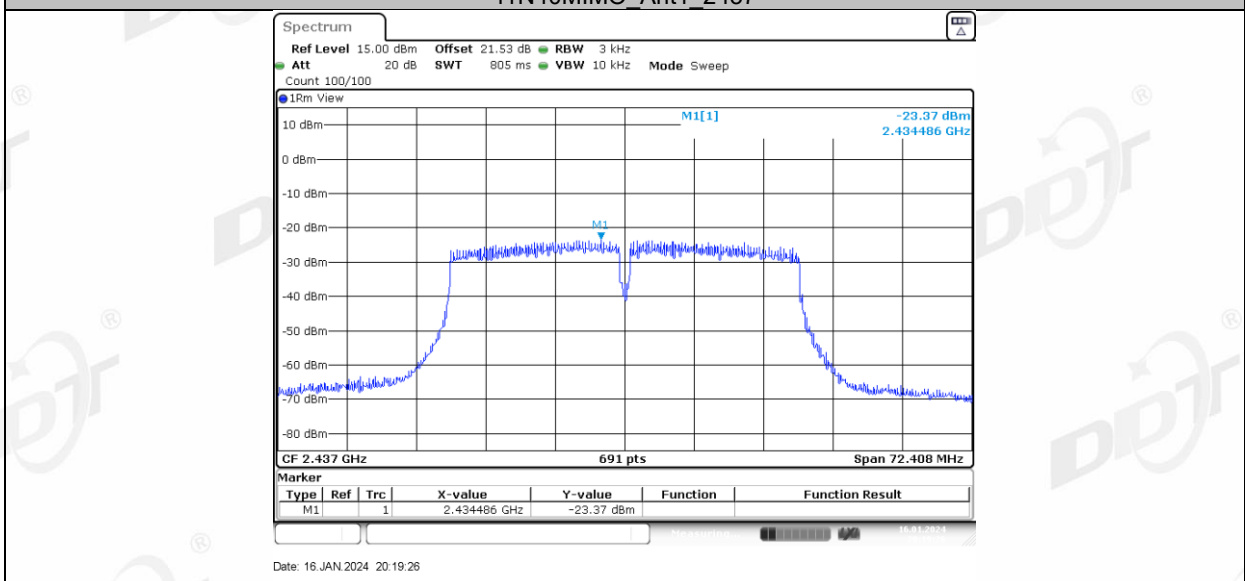
11N40MIMO Ant1_2422



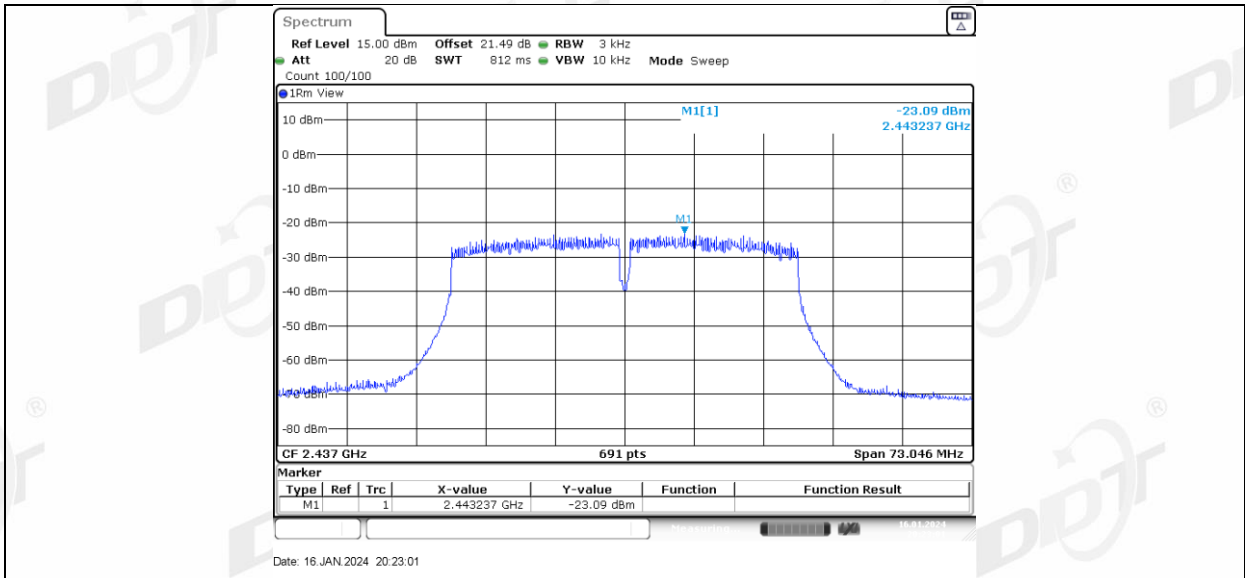
11N40MIMO Ant2_2422



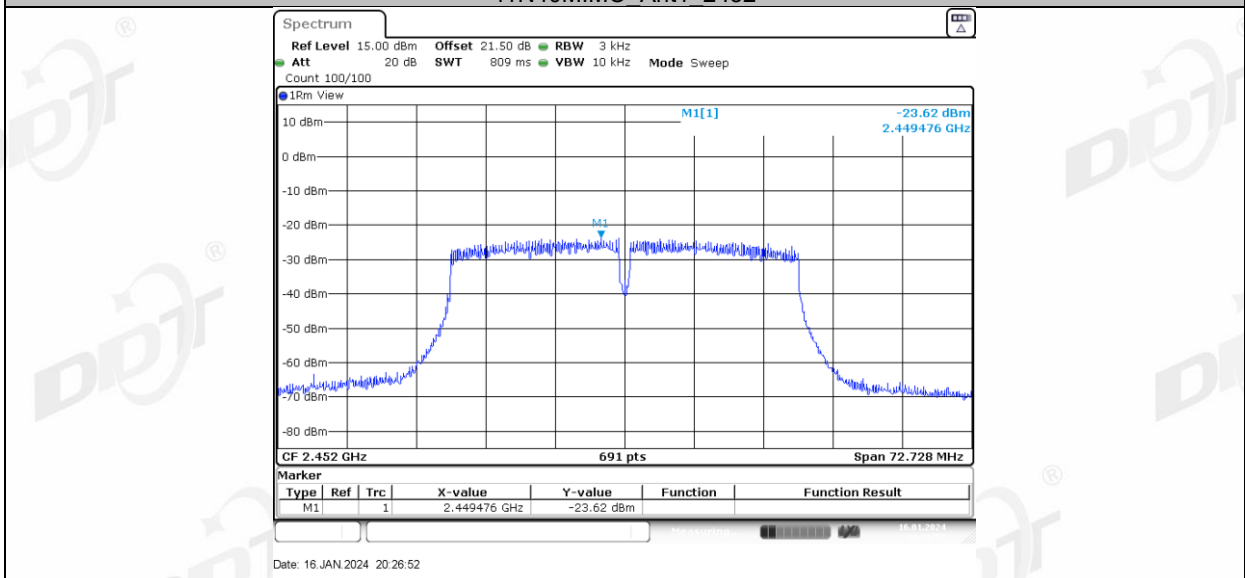
11N40MIMO Ant1_2437



11N40MIMO Ant2_2437



11N40MIMO Ant1_2452



11N40MIMO Ant2_2452

