



FCC AND ISCED CERTIFICATION TEST REPORT

Applicant	:	Mercku Inc.
Address of Applicant	:	3600 Steeles Avenue East, Suite C108B, Markham, Ontario, L3R 9Z7, Canada
Manufacturer	:	Mercku Technology (China), Inc.
Address of Manufacturer	:	Block B1, Southern Software Park No.1 Software Road, Tangjia Zhuhai, Guangdong, China
Equipment under Test	:	Mercku M6s Nano Mesh Wi-Fi Router
Model No.	:	MBAA0
FCC ID	:	2APR4-M6SN
IC	:	23877-M6SN
Test Standard(s)	:	FCC Rules and Regulations Part 15 Subpart C, RSS-247 Issue 3 August 2023, ANSI C63.10:2013, RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021)
Report No.	:	DDT-RE23111605-2E05
Issue Date	:	2024/03/02
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. 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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Manufacturer	:	Mercku Technology (China), Inc.
Address of Manufacturer	:	Block B1,Southern Software Park No.1 Software Road, Tangjia Zhuhai, Guangdong, China

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C,
RSS-247 Issue 3 August 2023,
ANSI C63.10:2013,
RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021)

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.

Report No.:	DDT-RE23111605-2E05		
Date of Receipt:	2023/11/20	Date of Test:	2023/11/20~2024/03/02

Prepared By:**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	2024/03/02	

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	6 dB Bandwidth and 99% Bandwidth	FCC Part 15: 15.247(a)(2), RSS-247 Issue 3 clause 5.2(a), RSS-Gen Issue 5 clause 6.7	/	Pass
2	Peak Output Power	FCC Part 15: 15.247(b)(3), RSS-247 Issue 3 clause 5.4(d)	/	Pass
3	Power Spectral Density	FCC Part 15: 15.247(e), RSS-247 Issue 3 clause 5.2(b)	/	Pass
4	RF Conducted Spurious Emissions	FCC Part 15: 15.247(d), RSS-247 Issue 3 clause 5.5	/	Pass
5	Radiated Emission	FCC Part 15: 15.205, FCC Part 15: 15.209, FCC Part 15: 15.247(d), RSS-247 Issue 3 clause 5.5, RSS-Gen Issue 5 clause 8.9, RSS-Gen Issue 5 clause 8.10	/	Pass
6	Band Edge Compliance	FCC Part 15: 15.205, FCC Part 15: 15.209, FCC Part 15: 15.247(d), RSS-247 Issue 3 clause 5.5, RSS-Gen Issue 5 clause 8.9, RSS-Gen Issue 5 clause 8.10	/	Pass
7	Power Line Conducted Emissions	FCC Part 15: 15.207(a), RSS-Gen Issue 5 clause 8.8	/	Pass
8	Antenna Requirement	FCC Part 15: 15.203, RSS-Gen Issue 5 clause 6.8	/	Pass

Note: N/A is an abbreviation for Not Applicable, and means this item is not applicable for this device or no need to test according to standard.

2. General Test Information

2.1. Description of EUT

EUT Name	: Mercku M6s Nano Mesh Wi-Fi Router
Model Number	: MBAA0
EUT Function Description	: Please reference user manual of this device
Power Supply	: AC 100~240V, 50-60Hz, 0.55A

Note: This EUT support 2.4 GHz WLAN, 5 GHz WLAN, this report only for 2.4 GHz WLAN.

Radio Technology	: IEEE 802.11b/g/n/ax
Operation frequency	: IEEE 802.11b: 2412MHz-2462MHz IEEE 802.11g: 2412MHz-2462MHz IEEE 802.11n HT20: 2412MHz-2462MHz IEEE 802.11n HT40: 2422MHz-2452MHz IEEE 802.11ax HE20: 2412MHz-2462MHz IEEE 802.11ax HE40: 2422MHz-2452MHz
Modulation	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDM, OFDMA (1024QAM, 64QAM, 16QAM, QPSK, BPSK)

Antenna information				
Antenna Type	PCB			
Max Antenna Gain(dBi)		Ant1 gain	Ant2 gain	Directional gain
	IEEE 802.11b	5.29	5.29	/
	IEEE 802.11g	5.29	5.29	/
	IEEE 802.11n HT20	5.29	5.29	5.29
	IEEE 802.11n HT40	5.29	5.29	5.29
	IEEE 802.11ax HE20	5.29	5.29	5.29
	IEEE 802.11ax HE40	5.29	5.29	5.29
Note: This EUT supports STBC, any transmit signals are uncorrelated with each other. So the Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10})/2]$ 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	/	/

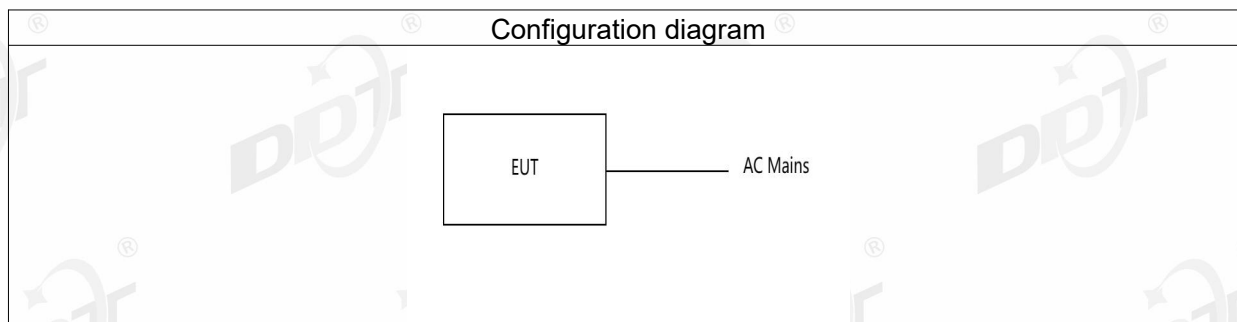
Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's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

“☑” means to be chosen or applicable; “☐” means don't to be chosen or not applicable; This note applies to entire report.

2.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
/	/	/	/

2.3. Block diagram of EUT configuration for test



2.4. Decision of final test mode

According pre-test, the worst test modes were reported as below:

Test software: QATool_Dbg.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	20.5	20.5	1	LCH: CH1	2412
	20.5	20.5	1	MCH: CH6	2437
	20.5	20.5	1	HCH: CH11	2462
IEEE 802.11g	17	17	6	LCH: CH1	2412
	17	17	6	MCH: CH6	2437
	17	17	6	HCH: CH11	2462
IEEE 802.11n HT20	15	15	MCS 8	LCH: CH1	2412
	15	15	MCS 8	MCH: CH6	2437
	15	15	MCS 8	HCH: CH11	2462
IEEE 802.11n HT40	15	15	MCS 8	LCH: CH3	2422
	15	15	MCS 8	MCH: CH6	2437
	15	15	MCS 8	HCH: CH9	2452
IEEE 802.11ax	15	15	MCS 9	LCH: CH1	2412
	15	15	MCS 9	MCH: CH6	2437

HE20	15	15	MCS 9	HCH: CH11	2462
IEEE 802.11ax HE40	15	15	MCS 9	LCH: CH3	2422
	15	15	MCS 9	MCH: CH6	2437
	15	15	MCS 9	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

During the measurement the environmental conditions were within the listed ranges:

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	+15℃ to +35 ℃
Humidity range:	20% to 75%
Pressure range:	86 kPa to106 kPa

Note: The specific temperature and humidity information of each test item refers to the temperature and humidity record in the corresponding test data.

Note: The specific temperature and humidity information of each test item refers to the temperature and humidity record in the corresponding test data.

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 ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Frequencies Stability	6.7×10^{-8} (Antenna couple method) 5.5×10^{-8} (Conducted method)
Conducted spurious emissions	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.40 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$) 1.66 dB ($8 \text{ GHz} \leq f < 26.5 \text{ GHz}$)
Uncertainty for radio frequency (RBW < 20 kHz)	3×10^{-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)

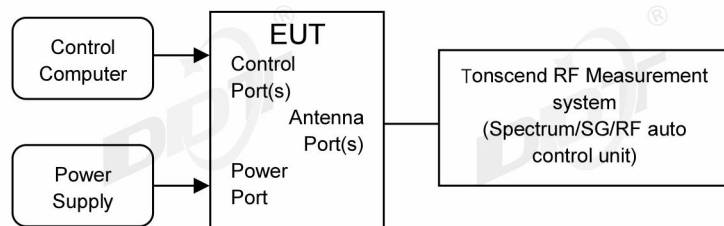
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. Equipment Used During Conductive Test

Equipment	Manufacturer	Model No.	Serial Number	Due Date
☑ RF Connected Test (RF Measurement System 1#)				
SIGNAL ANALYZER	R&S	FSQ26	101272	2024/04/26
Wideband Radio Communication Tester	R&S	CMW500	120259	2024/07/14
MXG Vector Signal Generator	KEYSIGHT	N5182B	MY59100192	2024/04/26
MXG Vector Signal Generator	Agilent	N5182A	MY19060405	2024/04/26
RF Control Unit	Tonsend	JS0806-2	158060010	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

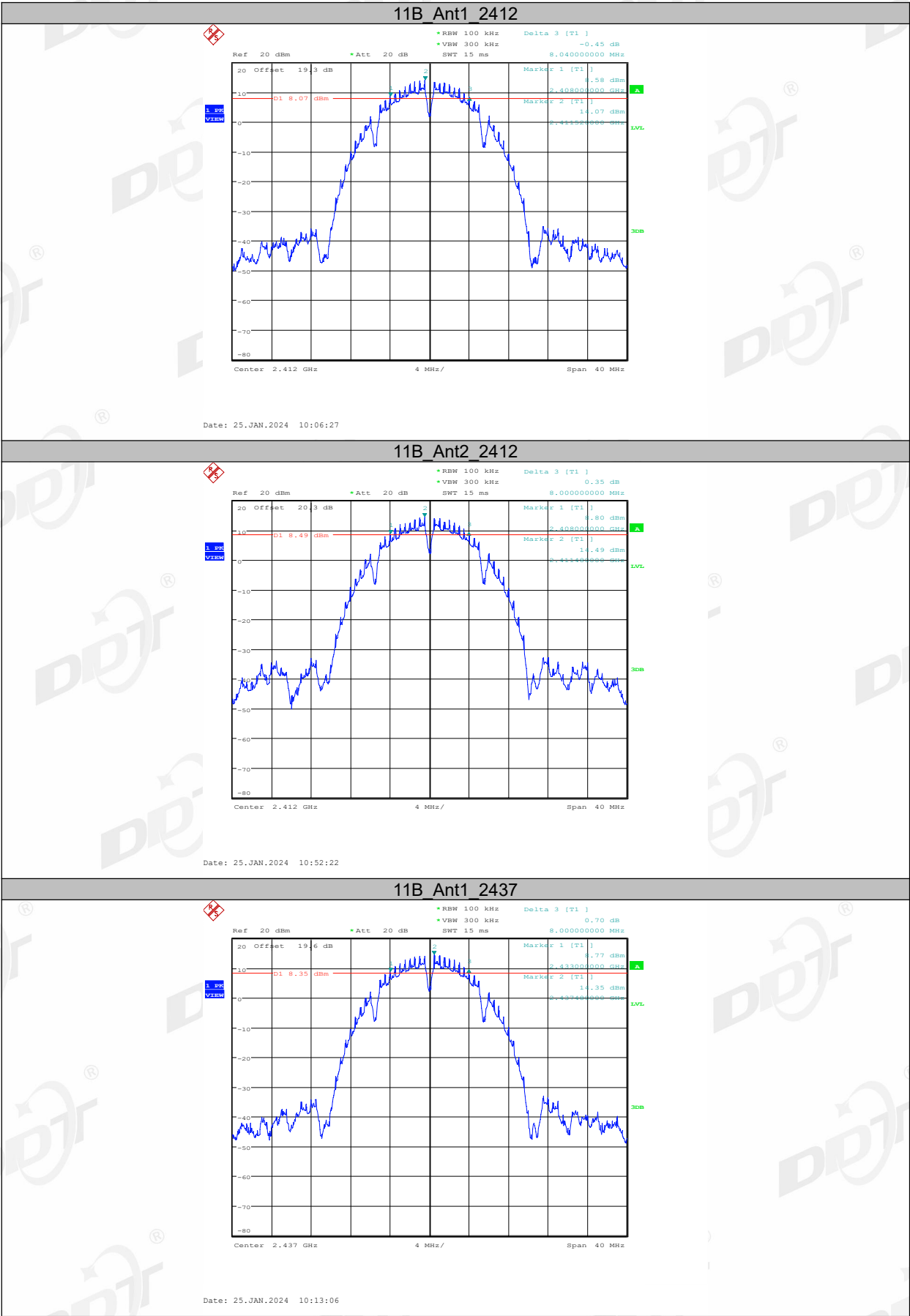
Allow the trace to stabilize, measure the 6 dB bandwidth of signal, and record the results in the report

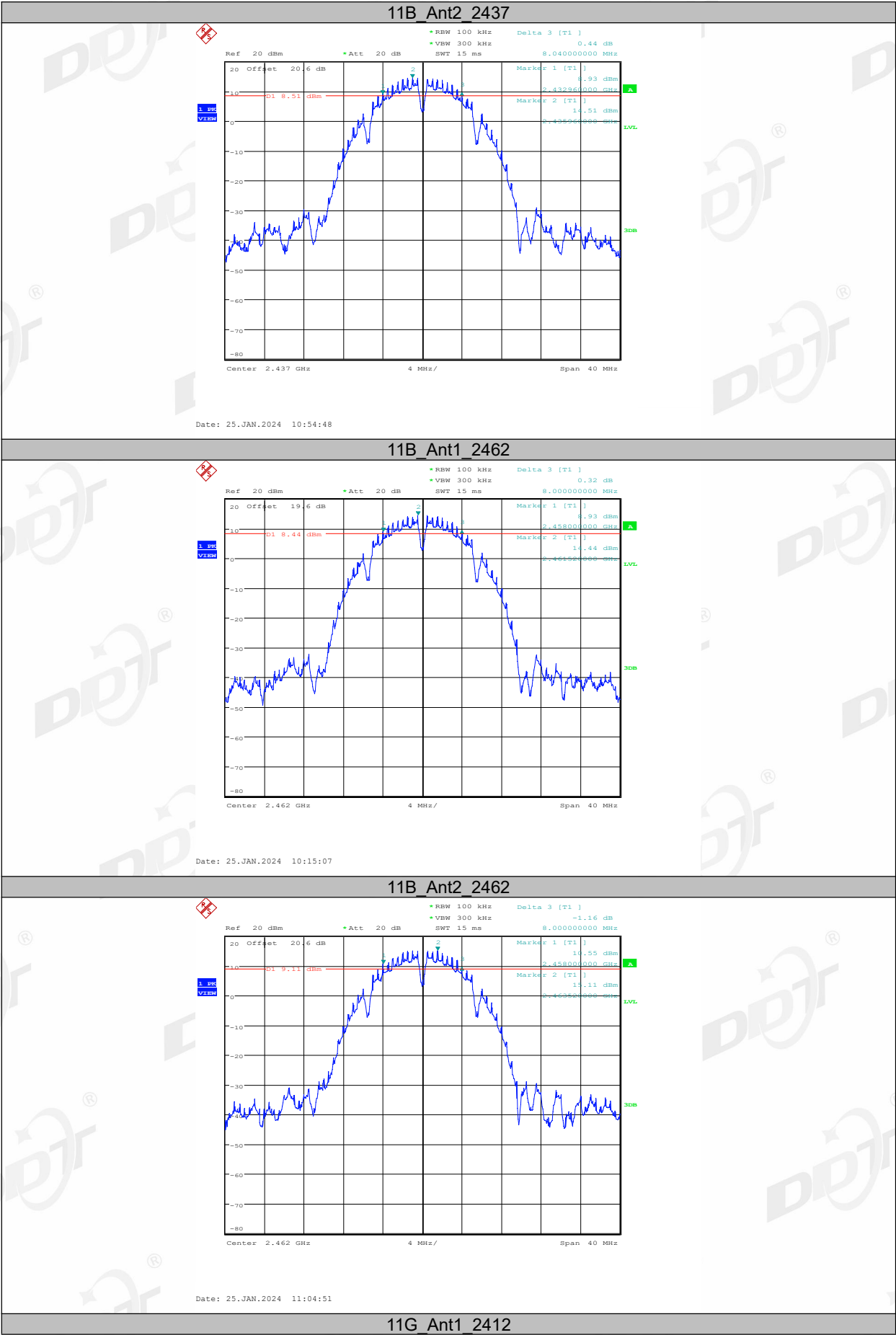
4.4. Test result

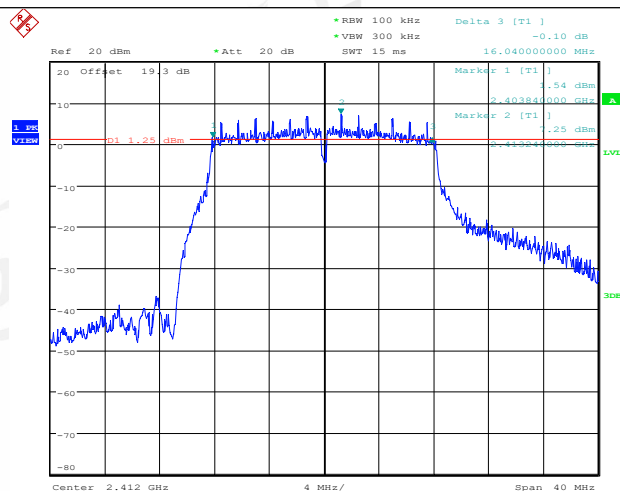
Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	23.6℃,64%RH	Test Date:	2024.01.29-2024.02.02
Test Power Supply:	AC230V/50Hz	EUT:	Mercku M6s Nano Mesh Wi-Fi Router
Sample Number:	S23111605-01	Model No.:	MBAA0

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	8.04	2408.00	2416.04	0.5	PASS
	Ant2	2412	8.00	2408.00	2416.00	0.5	PASS
	Ant1	2437	8.00	2433.00	2441.00	0.5	PASS
	Ant2	2437	8.04	2432.96	2441.00	0.5	PASS
	Ant1	2462	8.00	2458.00	2466.00	0.5	PASS
	Ant2	2462	8.00	2458.00	2466.00	0.5	PASS
11G	Ant1	2412	16.04	2403.84	2419.88	0.5	PASS
	Ant2	2412	16.04	2404.08	2420.12	0.5	PASS
	Ant1	2437	15.92	2428.84	2444.76	0.5	PASS
	Ant2	2437	15.76	2429.12	2444.88	0.5	PASS
	Ant1	2462	15.52	2454.24	2469.76	0.5	PASS
	Ant2	2462	16.04	2453.84	2469.88	0.5	PASS
11N20MI MO	Ant1	2412	16.68	2403.48	2420.16	0.5	PASS
	Ant2	2412	17.56	2403.20	2420.76	0.5	PASS
	Ant1	2437	16.52	2428.60	2445.12	0.5	PASS
	Ant2	2437	17.12	2428.24	2445.36	0.5	PASS
	Ant1	2462	15.72	2453.84	2469.56	0.5	PASS
	Ant2	2462	17.52	2453.24	2470.76	0.5	PASS
11N40MI MO	Ant1	2422	35.04	2404.48	2439.52	0.5	PASS
	Ant2	2422	35.04	2404.48	2439.52	0.5	PASS
	Ant1	2437	35.12	2419.48	2454.60	0.5	PASS
	Ant2	2437	35.04	2419.48	2454.52	0.5	PASS
	Ant1	2452	35.12	2434.48	2469.60	0.5	PASS
	Ant2	2452	35.04	2434.48	2469.52	0.5	PASS
11AX20M IMO	Ant1	2412	18.08	2402.68	2420.76	0.5	PASS
	Ant2	2412	18.32	2402.76	2421.08	0.5	PASS
	Ant1	2437	18.40	2427.60	2446.00	0.5	PASS
	Ant2	2437	18.36	2427.96	2446.32	0.5	PASS
	Ant1	2462	18.24	2452.76	2471.00	0.5	PASS
	Ant2	2462	18.48	2452.76	2471.24	0.5	PASS
11AX40M IMO	Ant1	2422	36.96	2403.52	2440.48	0.5	PASS
	Ant2	2422	36.32	2404.48	2440.80	0.5	PASS
	Ant1	2437	36.08	2419.48	2455.56	0.5	PASS
	Ant2	2437	36.32	2419.48	2455.80	0.5	PASS
	Ant1	2452	37.12	2433.20	2470.32	0.5	PASS
	Ant2	2452	36.88	2433.92	2470.80	0.5	PASS

4.5. Test graphs

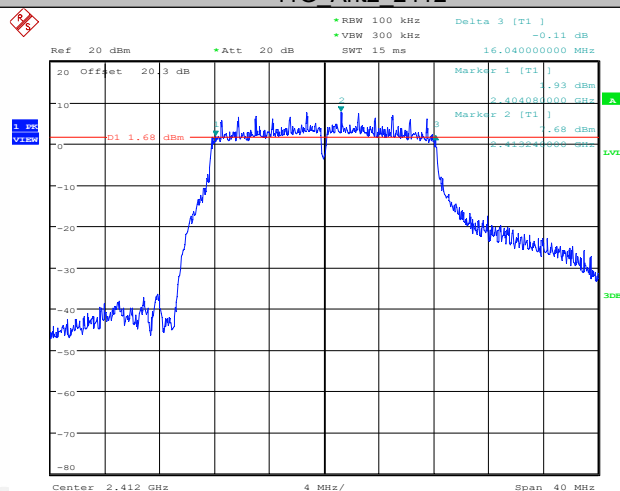






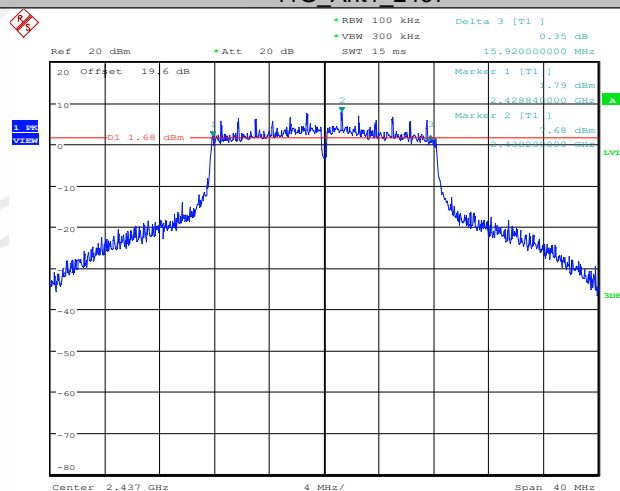
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11G Ant2 2412



Date: 25.JAN.2024 11:07:13

11G_Ant1_2437



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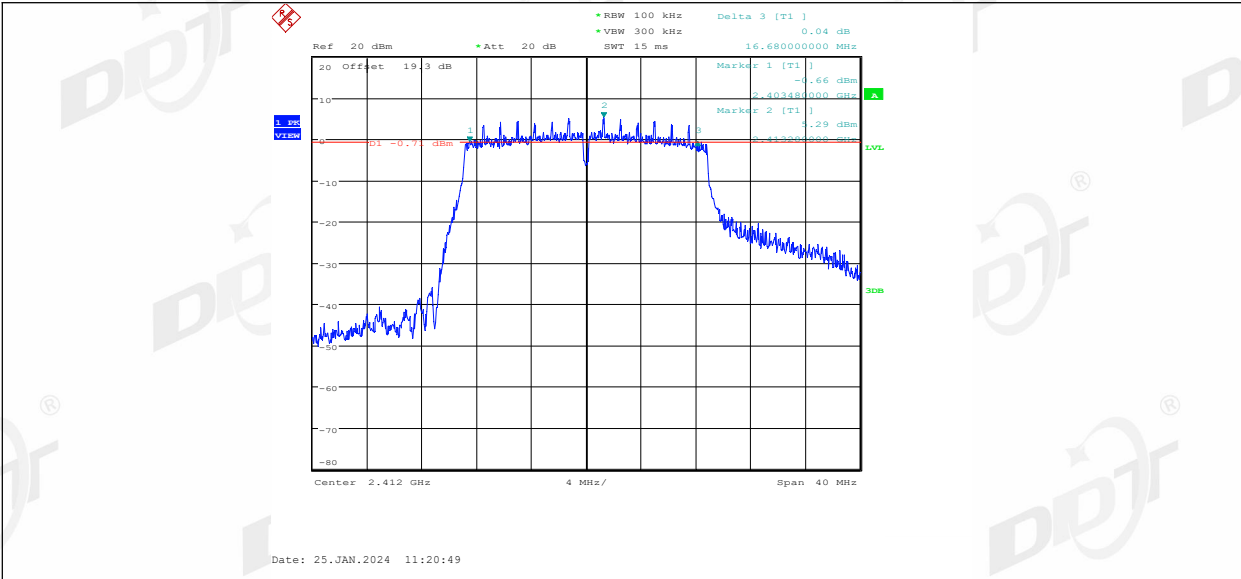
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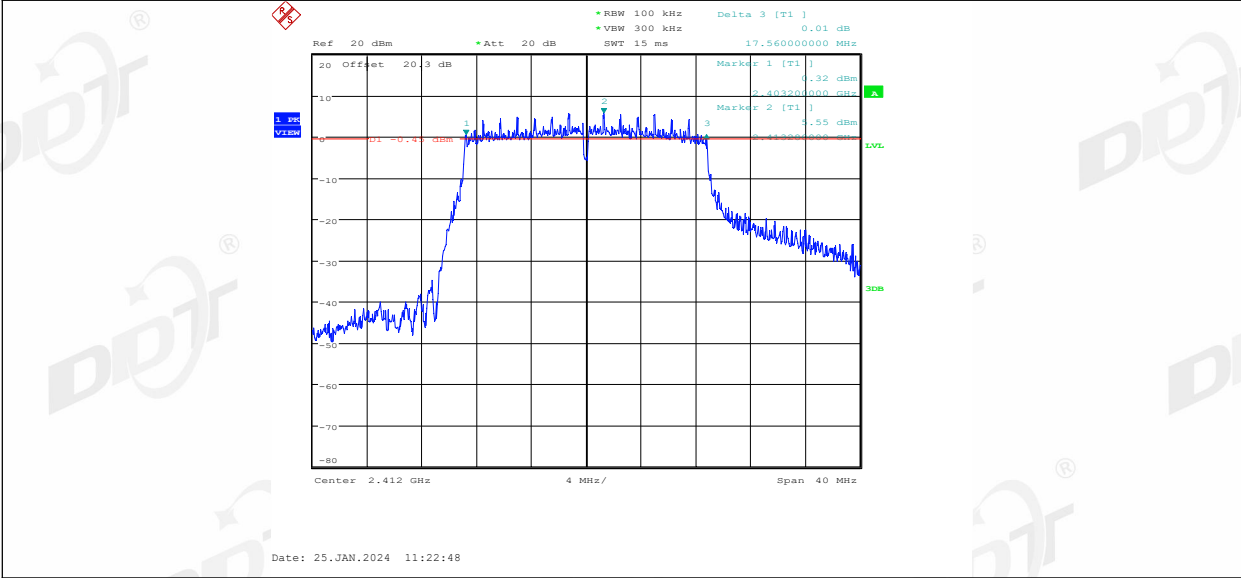
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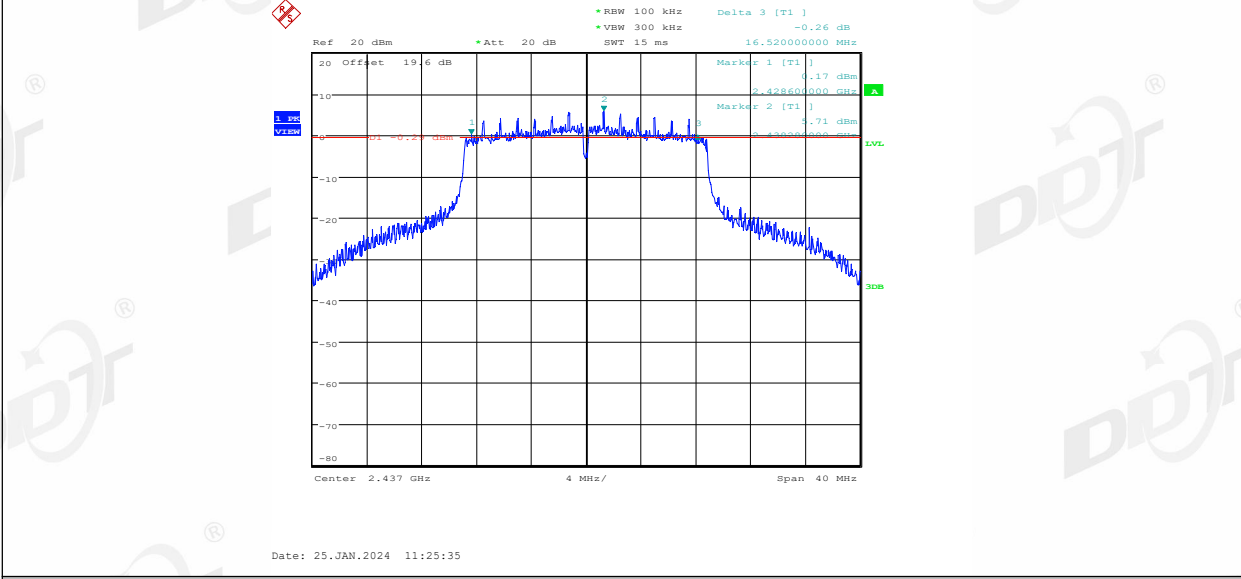
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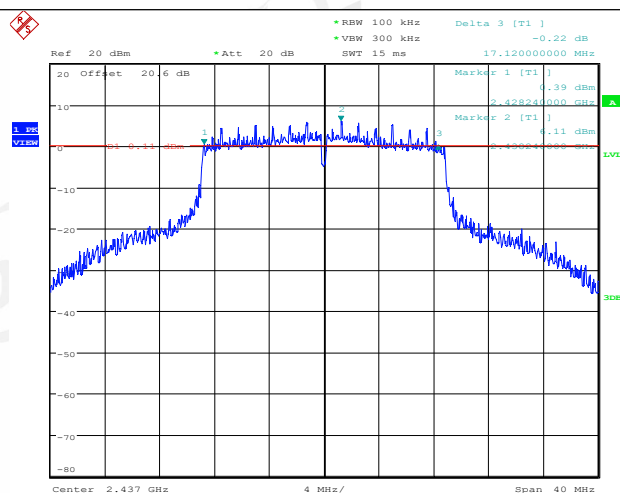
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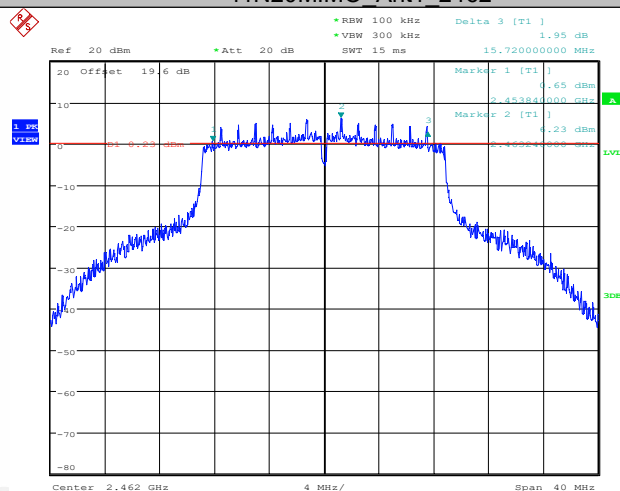


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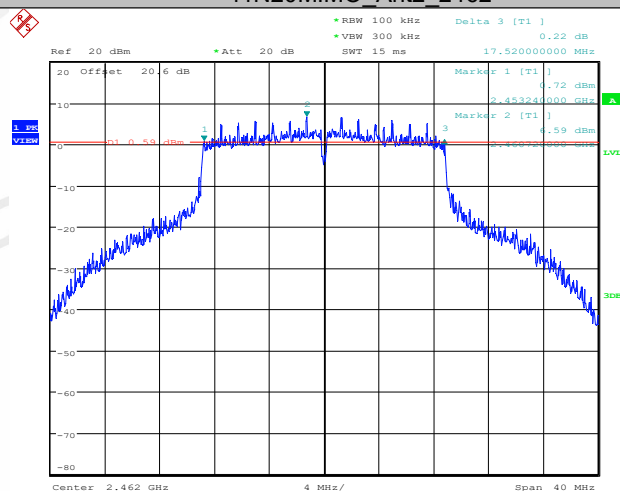
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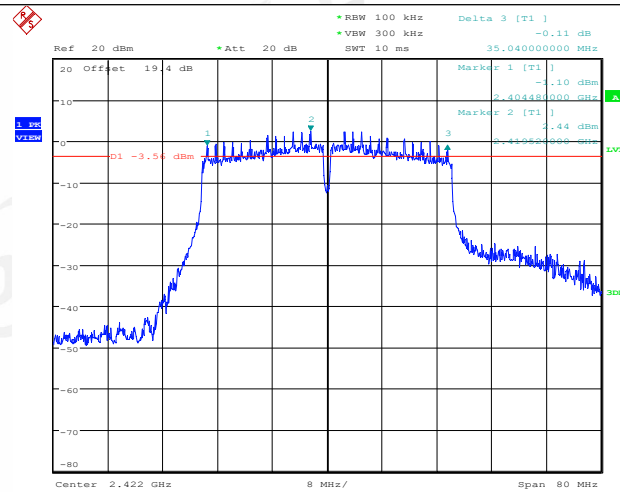
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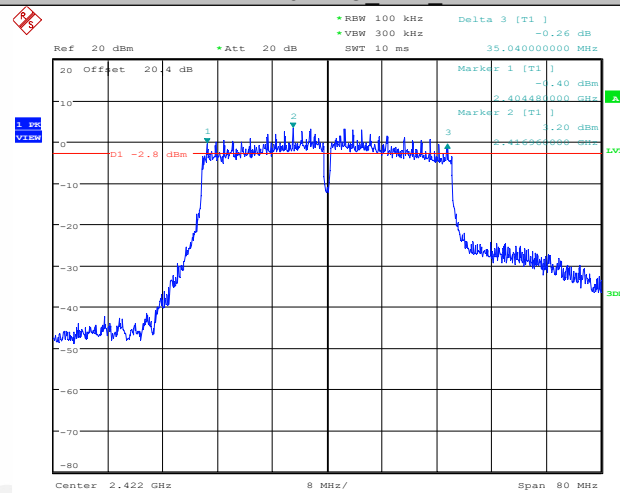
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11N40MIMO Ant1 2422



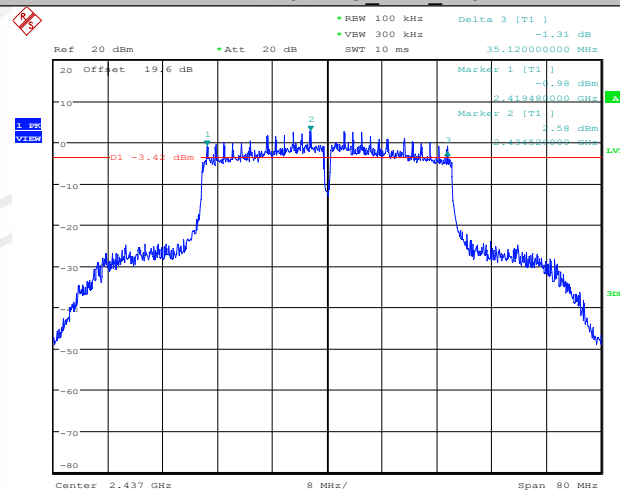
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11N40MIMO_Ant1_2437



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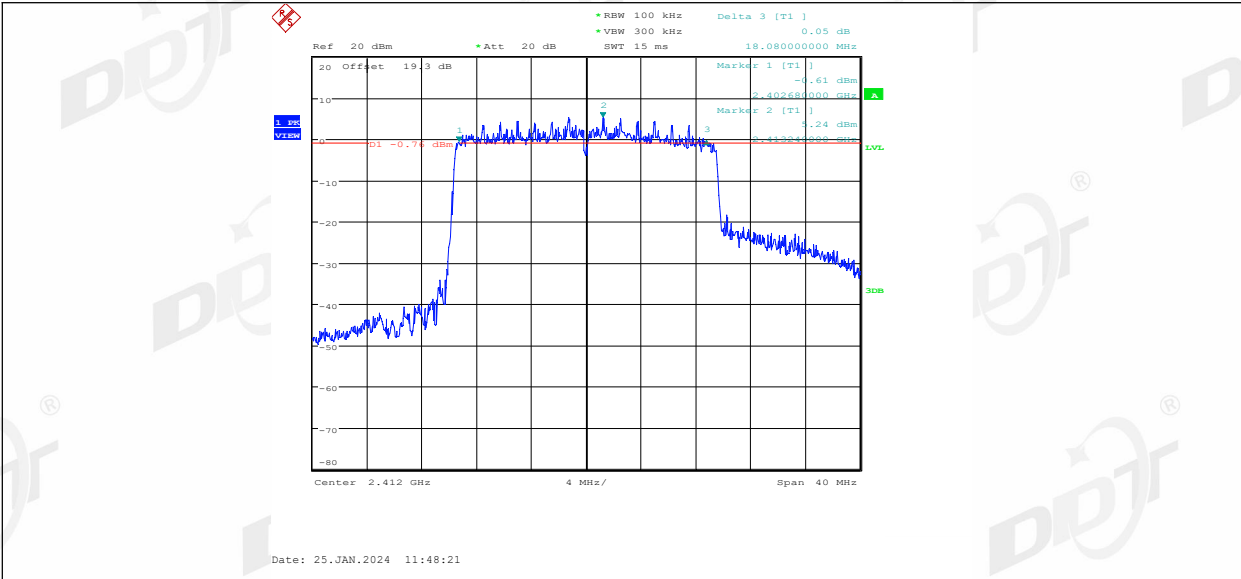
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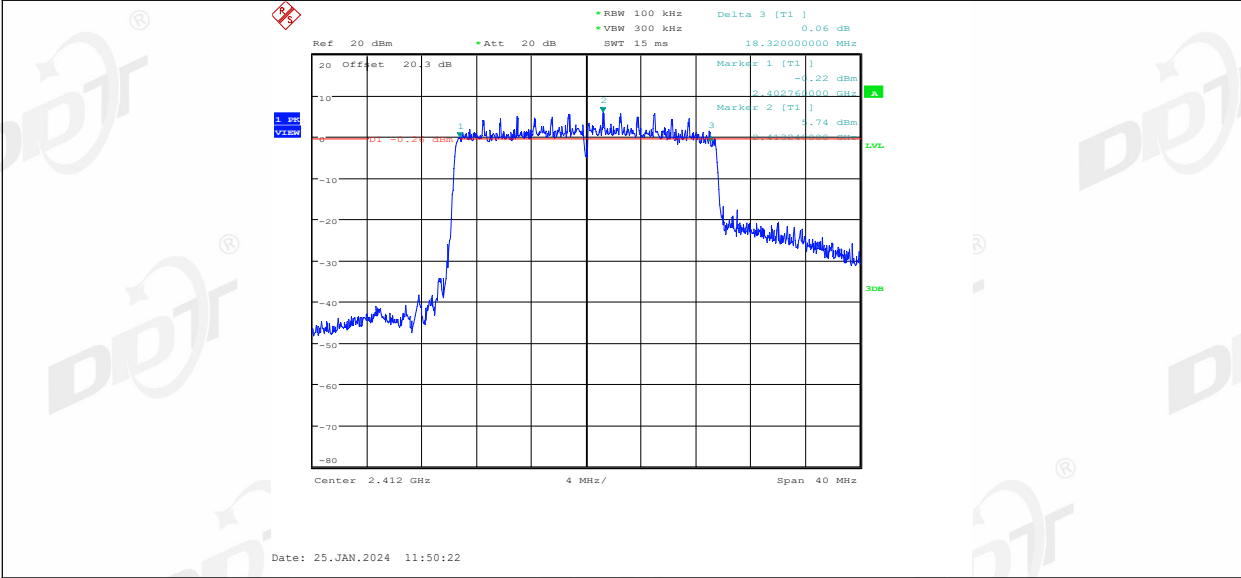
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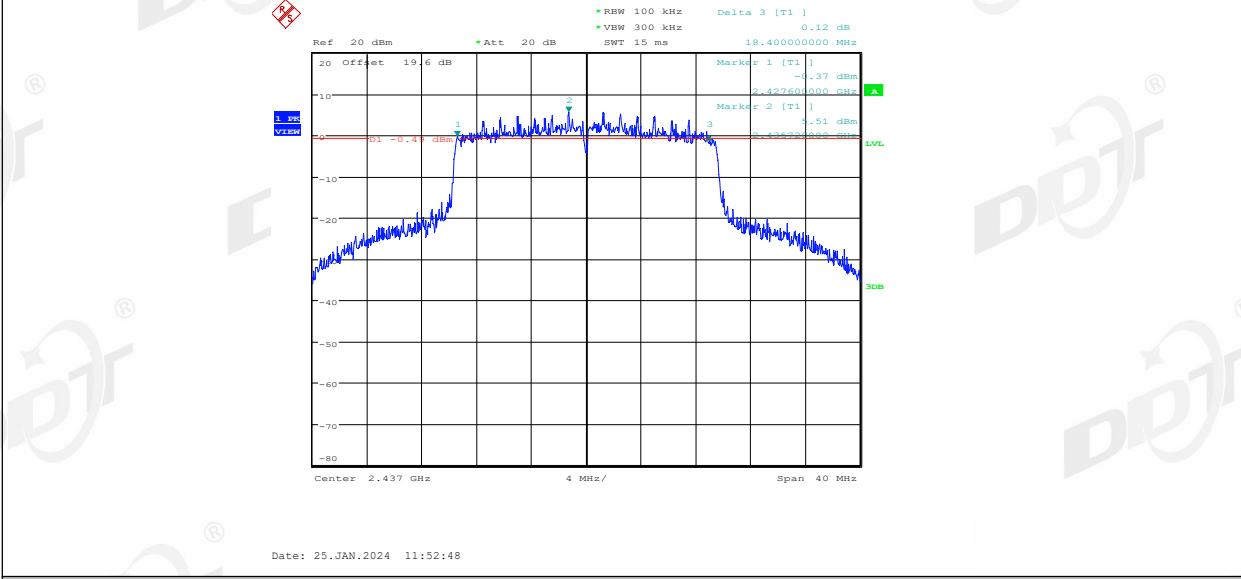
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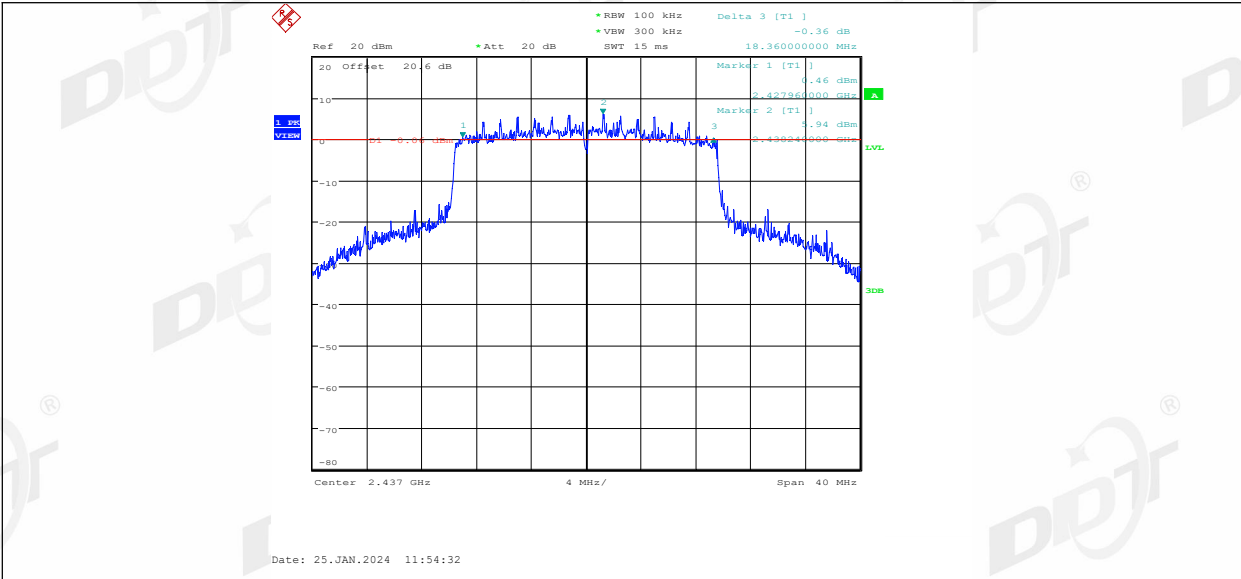
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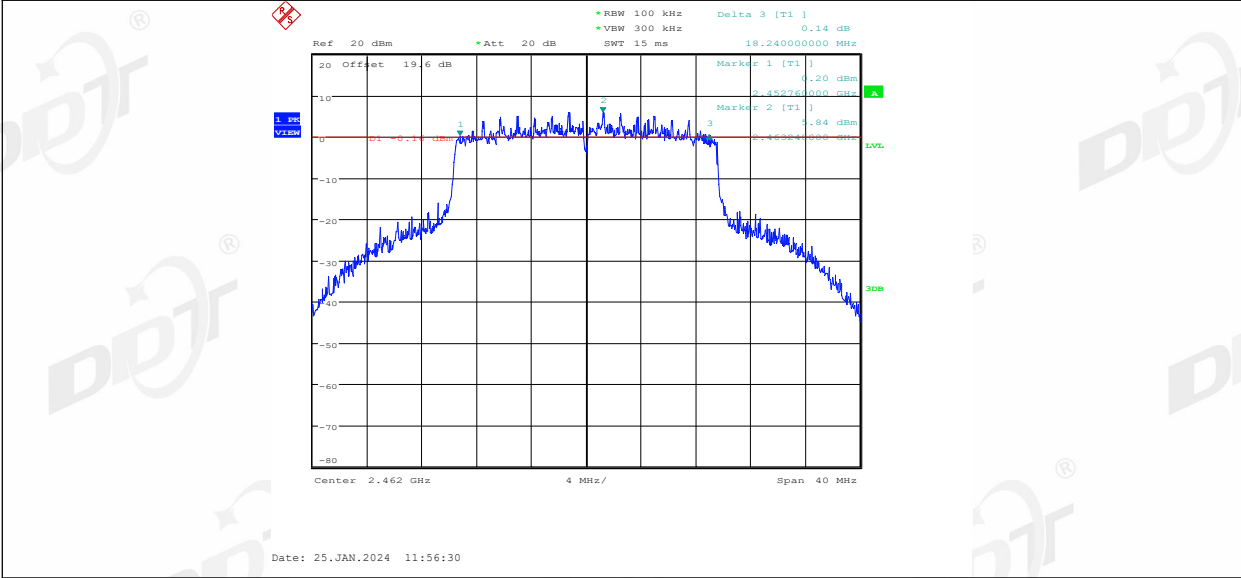
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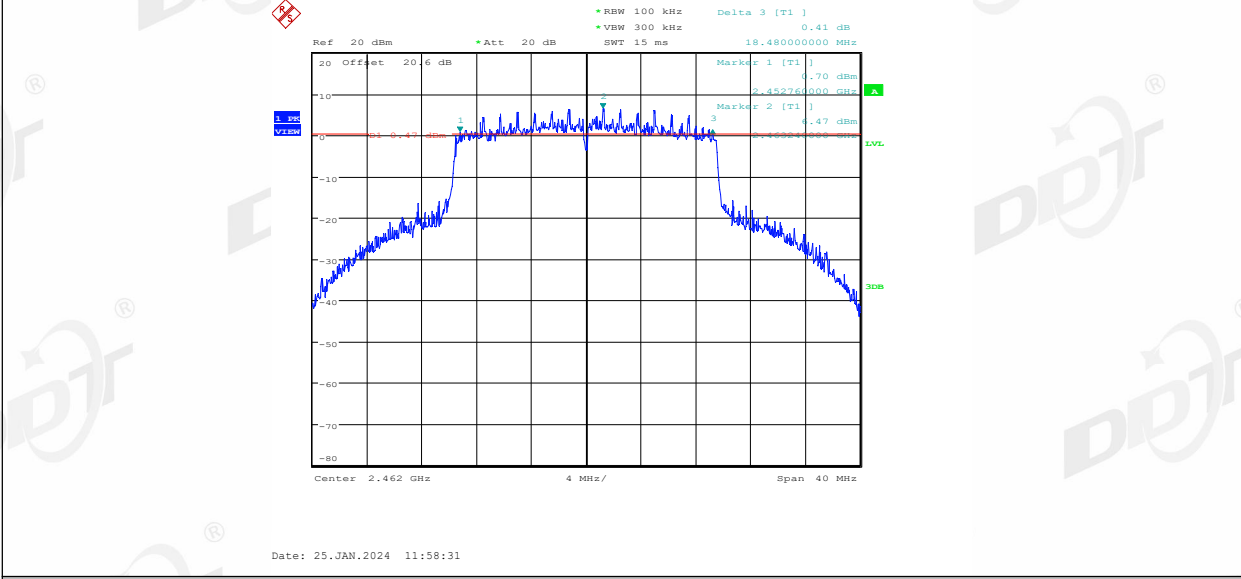
11AX20MIMO_Ant2_2437



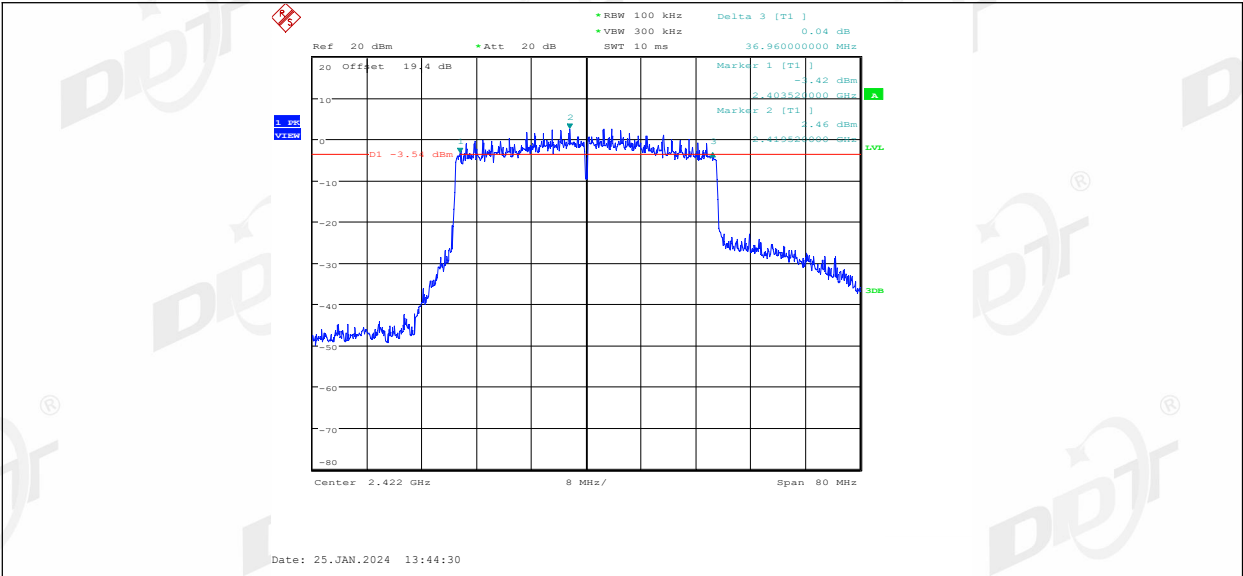
11AX20MIMO_Ant1_2462



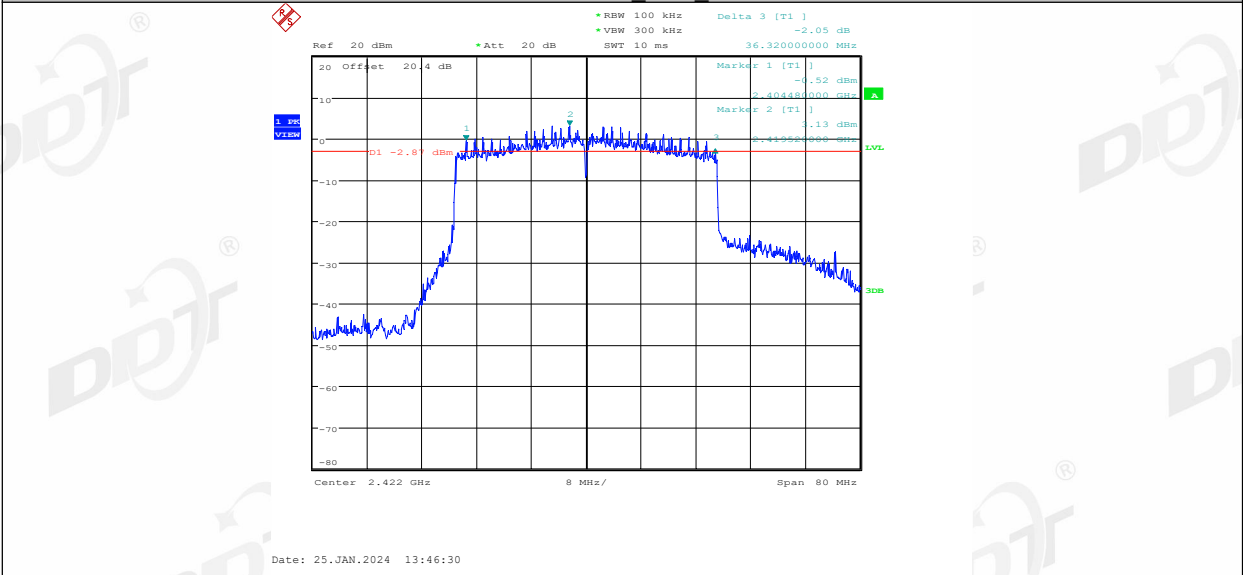
11AX20MIMO_Ant2_2462



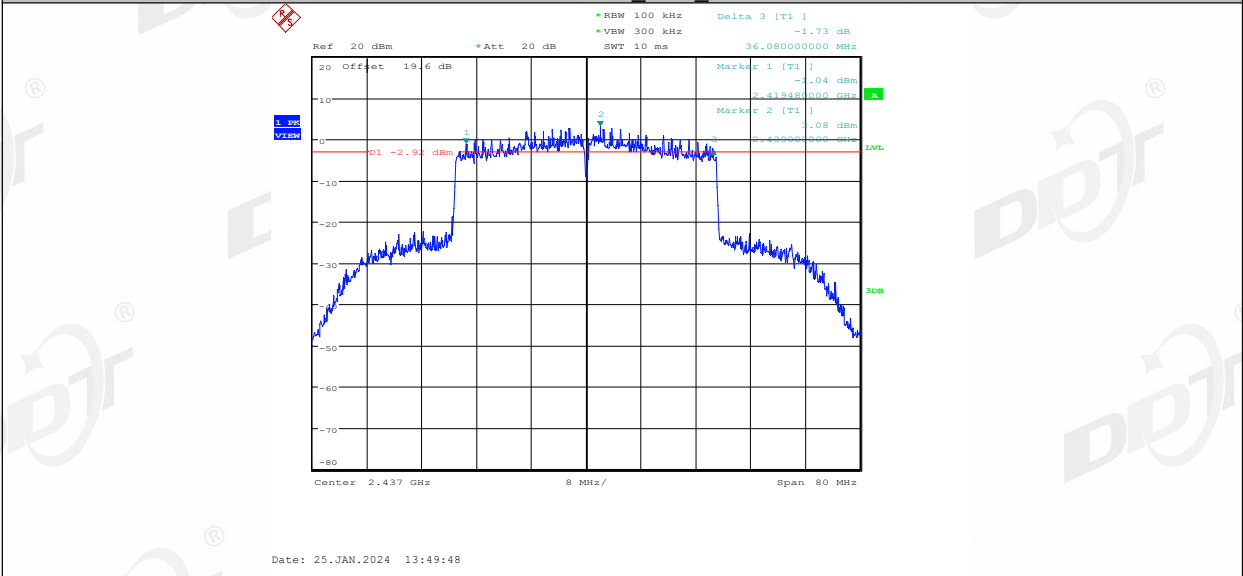
11AX40MIMO_Ant1_2422



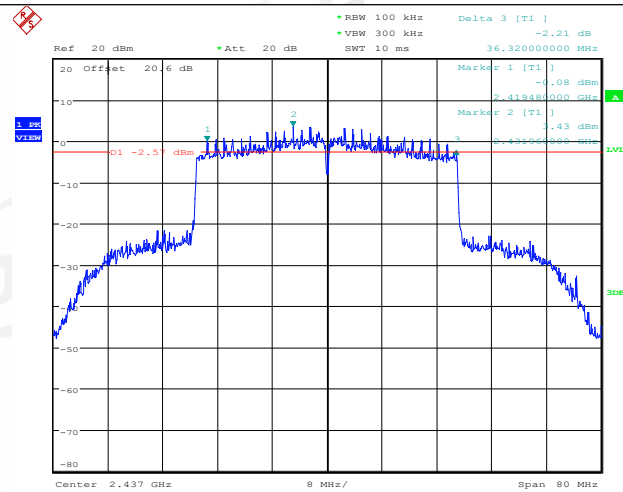
11AX40MIMO_Ant2_2422



11AX40MIMO_Ant1_2437

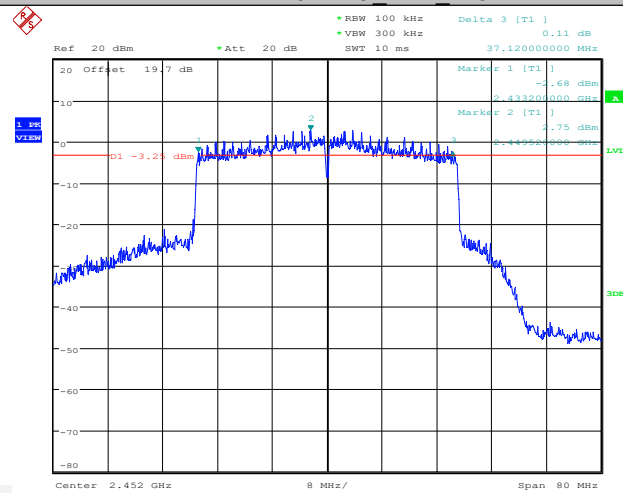


11AX40MIMO_Ant2_2437



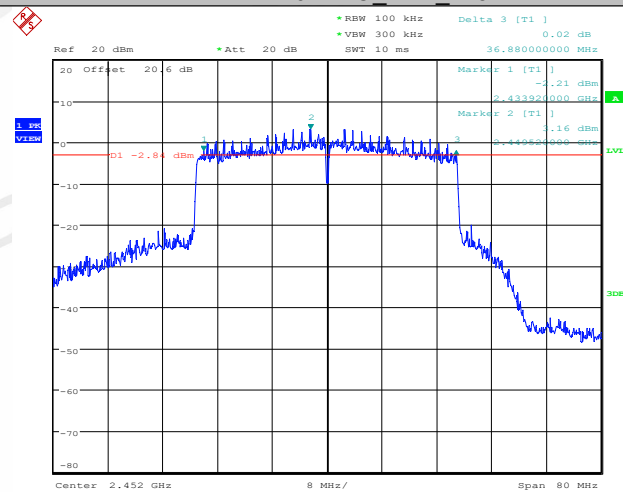
Date: 25.JAN.2024 13:51:30

11AX40MIMO Ant1 2452



Date: 25.JAN.2024 13:53:49

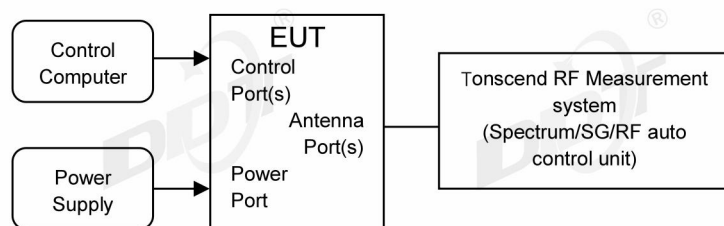
11AX40MIMO Ant2 2452



Date: 25.JAN.2024 13:55:49

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

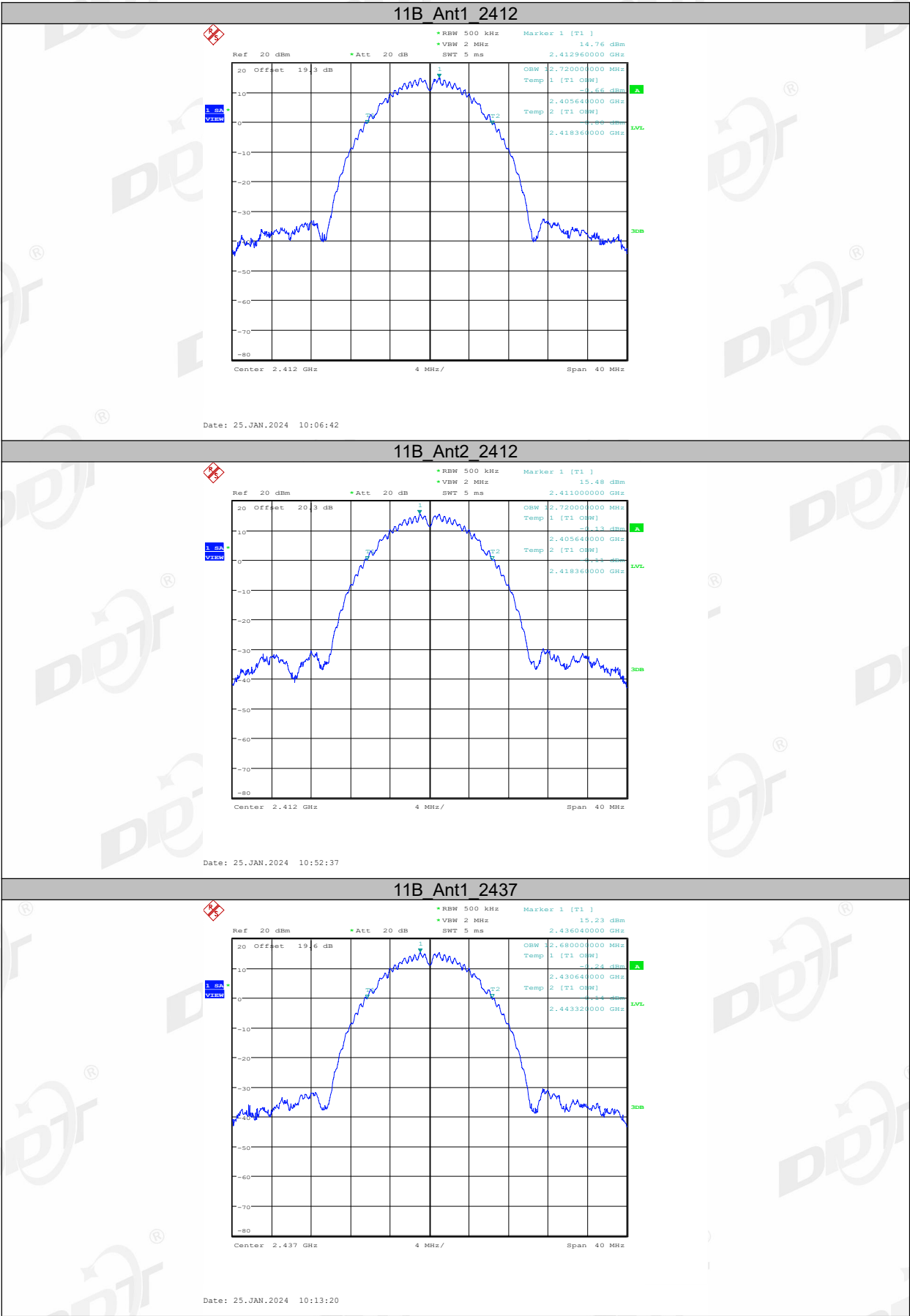
Allow the trace to stabilize, measure the 99% bandwidth of signal, and record the results in the report.

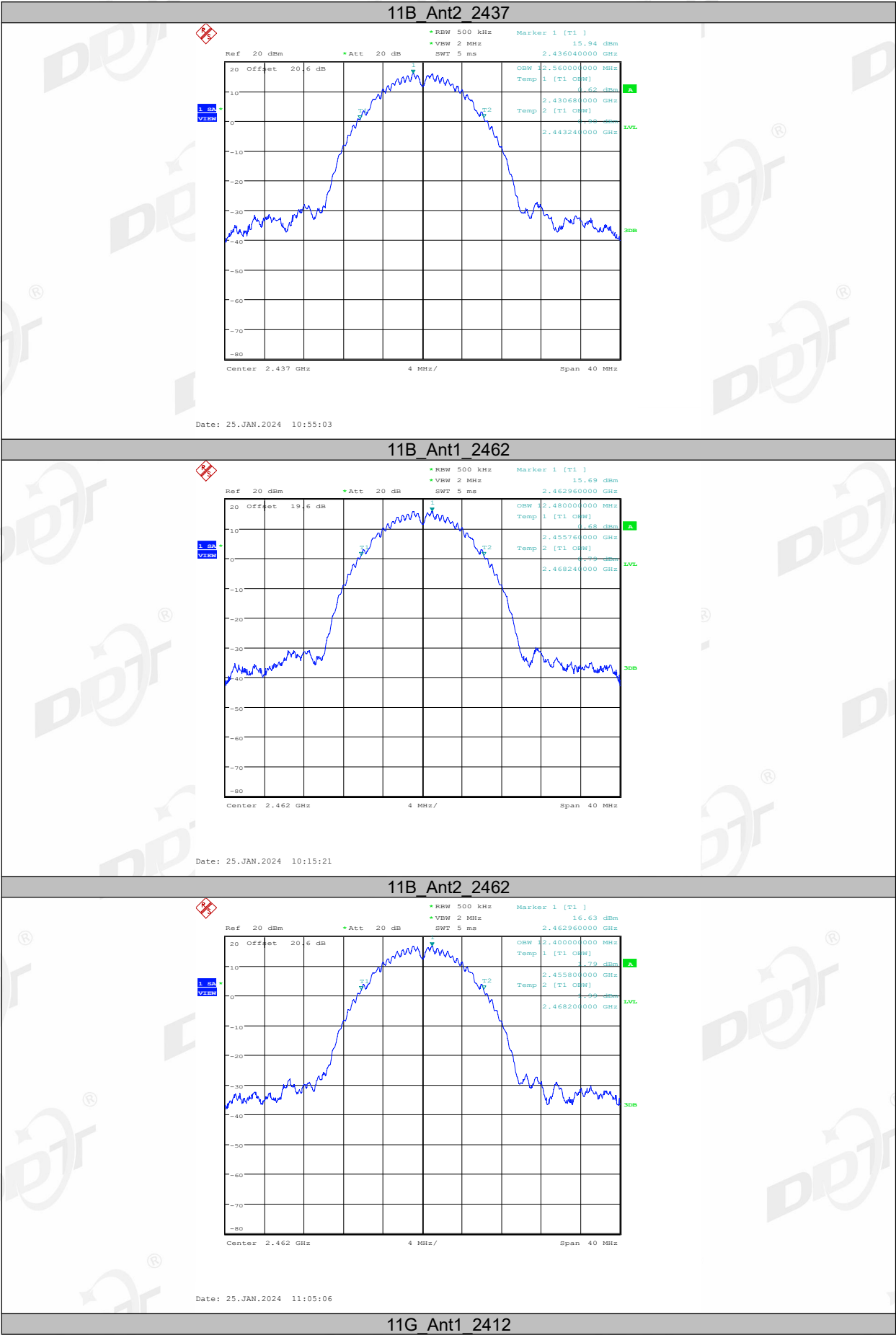
5.4. Test result

Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	23.6℃,64%RH	Test Date:	2024.01.29-2024.02.02
Test Power Supply:	AC230V/50Hz	EUT:	Mercku M6s Nano Mesh Wi-Fi Router
Sample Number:	S23111605-01	Model No.:	MBAA0

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.72	2405.6400	2418.3600	---	---
	Ant2	2412	12.72	2405.6400	2418.3600	---	---
	Ant1	2437	12.68	2430.6400	2443.3200	---	---
	Ant2	2437	12.56	2430.6800	2443.2400	---	---
	Ant1	2462	12.48	2455.7600	2468.2400	---	---
	Ant2	2462	12.4	2455.8000	2468.2000	---	---
11G	Ant1	2412	17.52	2403.3600	2420.8800	---	---
	Ant2	2412	17.52	2403.4000	2420.9200	---	---
	Ant1	2437	17.6	2428.2000	2445.8000	---	---
	Ant2	2437	17.56	2428.1600	2445.7200	---	---
	Ant1	2462	17.48	2453.2400	2470.7200	---	---
	Ant2	2462	17.44	2453.2800	2470.7200	---	---
11N20MI MO	Ant1	2412	18.28	2402.9200	2421.2000	---	---
	Ant2	2412	18.16	2403.0000	2421.1600	---	---
	Ant1	2437	18.68	2427.6800	2446.3600	---	---
	Ant2	2437	18.32	2427.8000	2446.1200	---	---
	Ant1	2462	18.48	2452.7200	2471.2000	---	---
	Ant2	2462	18.36	2452.8400	2471.2000	---	---
11N40MI MO	Ant1	2422	36.72	2403.7600	2440.4800	---	---
	Ant2	2422	36.56	2403.7600	2440.3200	---	---
	Ant1	2437	36.88	2418.6000	2455.4800	---	---
	Ant2	2437	36.72	2418.6000	2455.3200	---	---
	Ant1	2452	36.8	2433.4400	2470.2400	---	---
	Ant2	2452	36.8	2433.4400	2470.2400	---	---
11AX20M IMO	Ant1	2412	19.08	2402.4800	2421.5600	---	---
	Ant2	2412	19.08	2402.5200	2421.6000	---	---
	Ant1	2437	19.36	2427.3200	2446.6800	---	---
	Ant2	2437	19.28	2427.3200	2446.6000	---	---
	Ant1	2462	19.24	2452.4000	2471.6400	---	---
	Ant2	2462	19.28	2452.3600	2471.6400	---	---
11AX40M IMO	Ant1	2422	38	2403.0400	2441.0400	---	---
	Ant2	2422	38	2403.0400	2441.0400	---	---
	Ant1	2437	38.16	2417.8800	2456.0400	---	---
	Ant2	2437	38.08	2417.9600	2456.0400	---	---
	Ant1	2452	38.08	2432.8800	2470.9600	---	---
	Ant2	2452	38.08	2432.8800	2470.9600	---	---

5.5. Test graphs



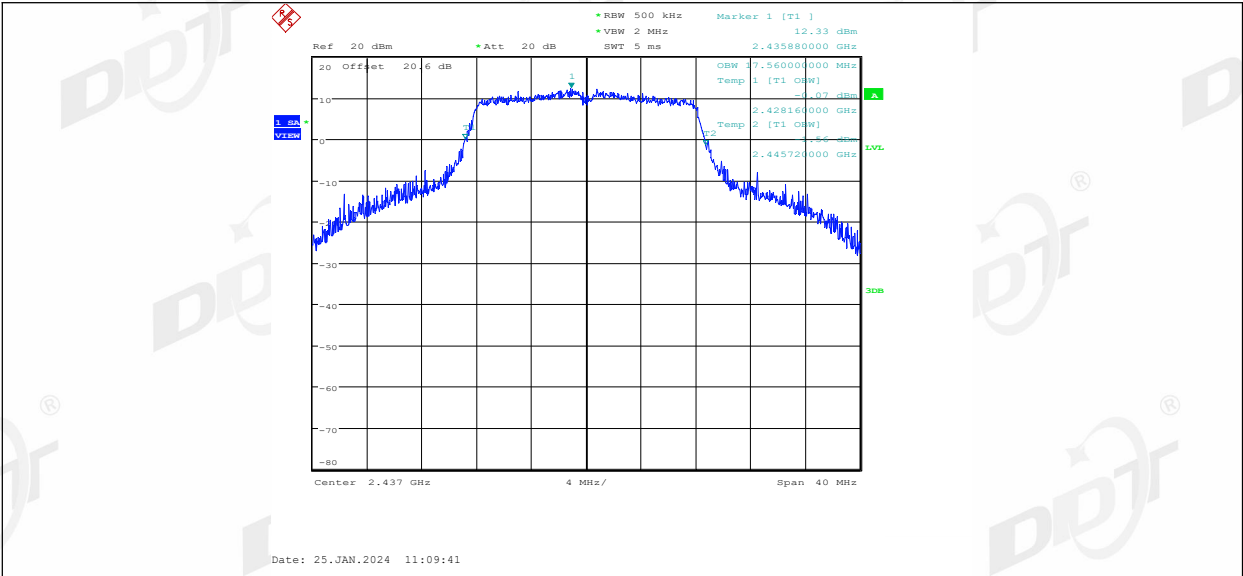




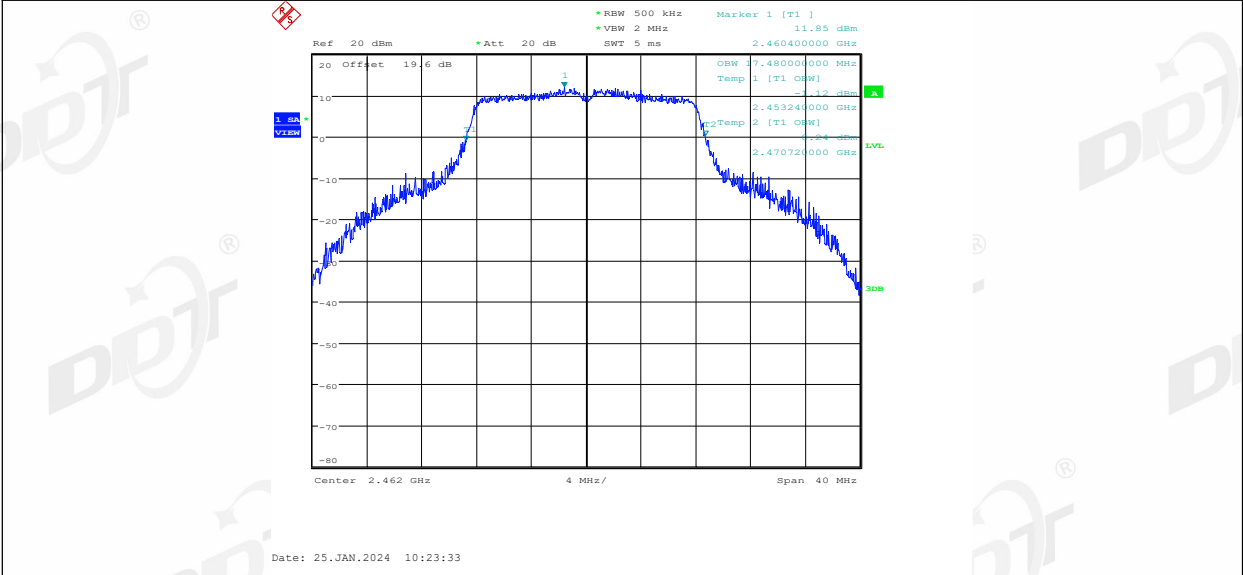
Date: 25.JAN.2024 11:07:27

Date: 25.JAN.2024 10:21:34

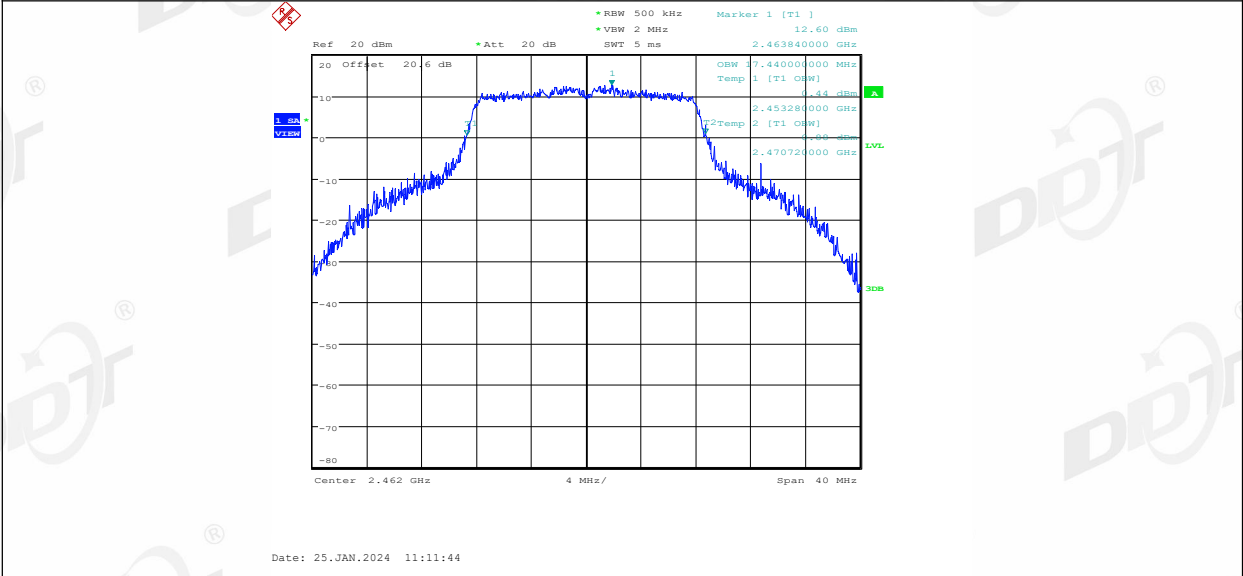
11G Ant2 2437



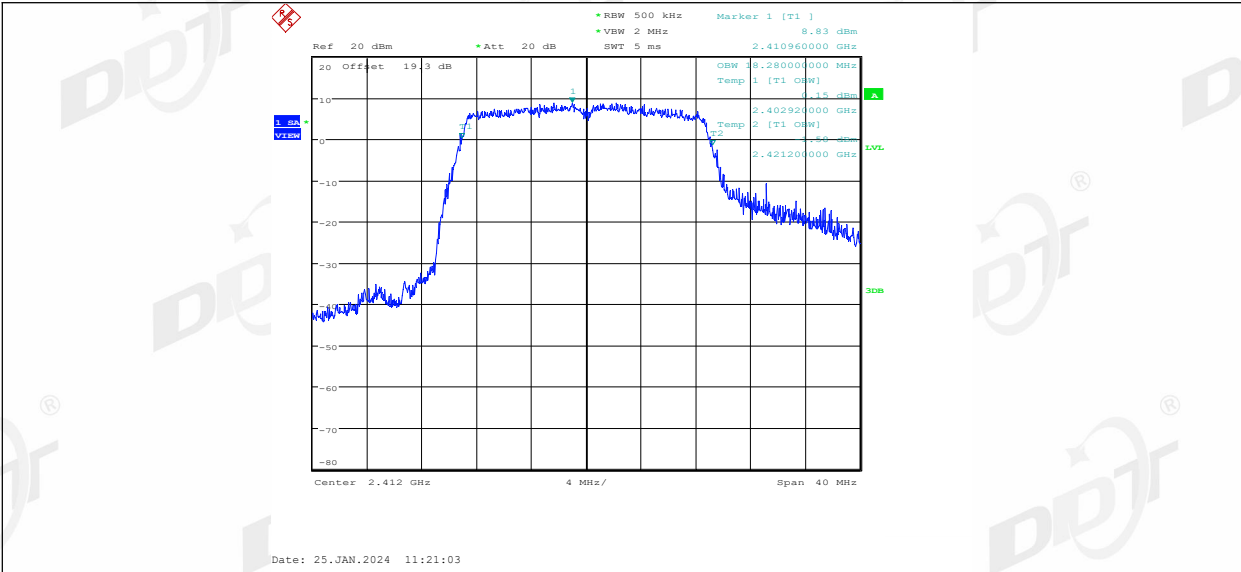
11G Ant1_2462



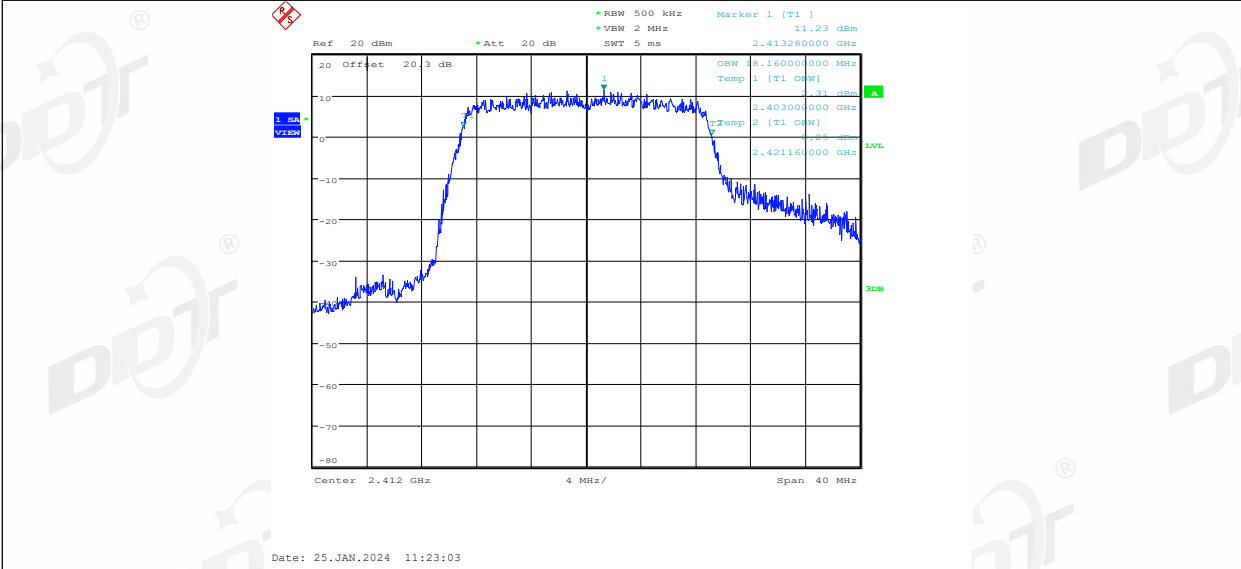
11G Ant2_2462



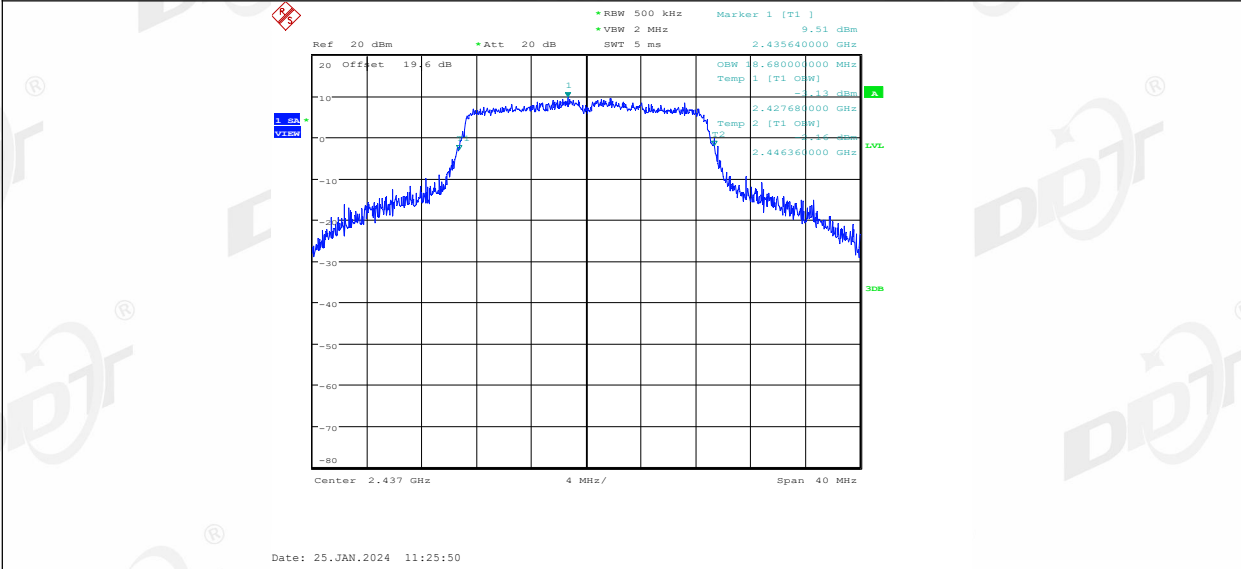
11N20MIMO_Ant1_2412



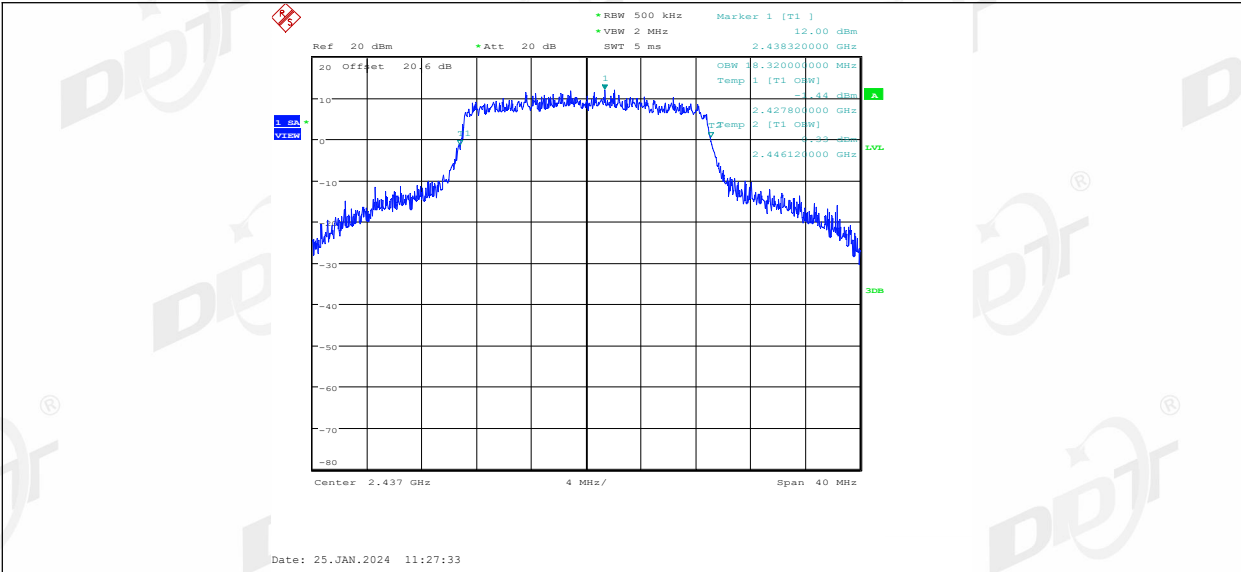
11N20MIMO_Ant2_2412



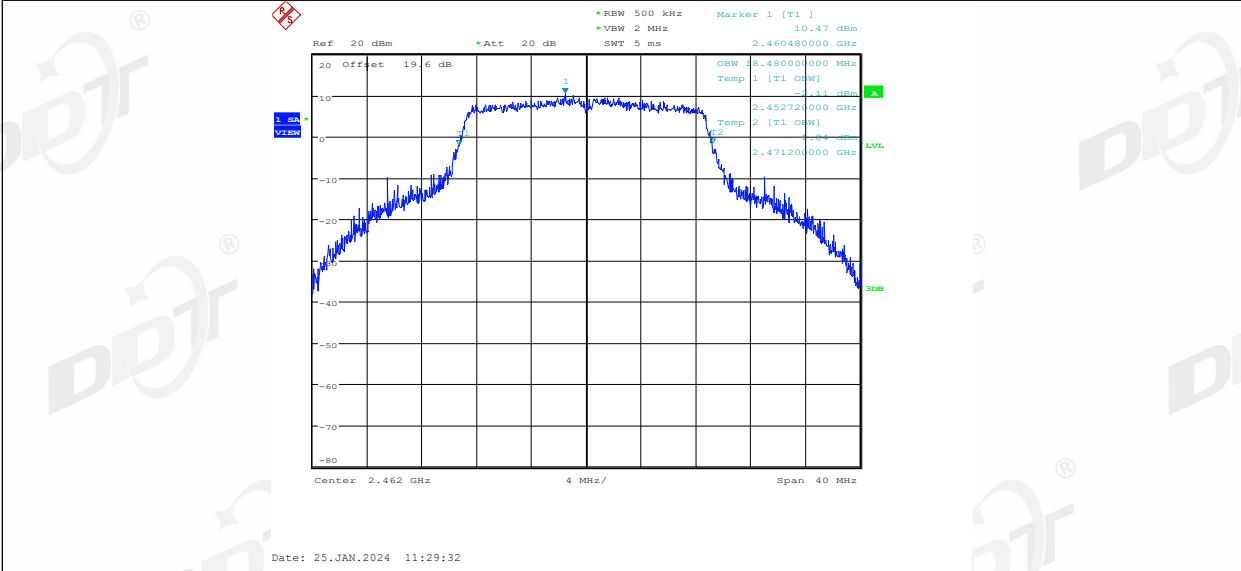
11N20MIMO_Ant1_2437



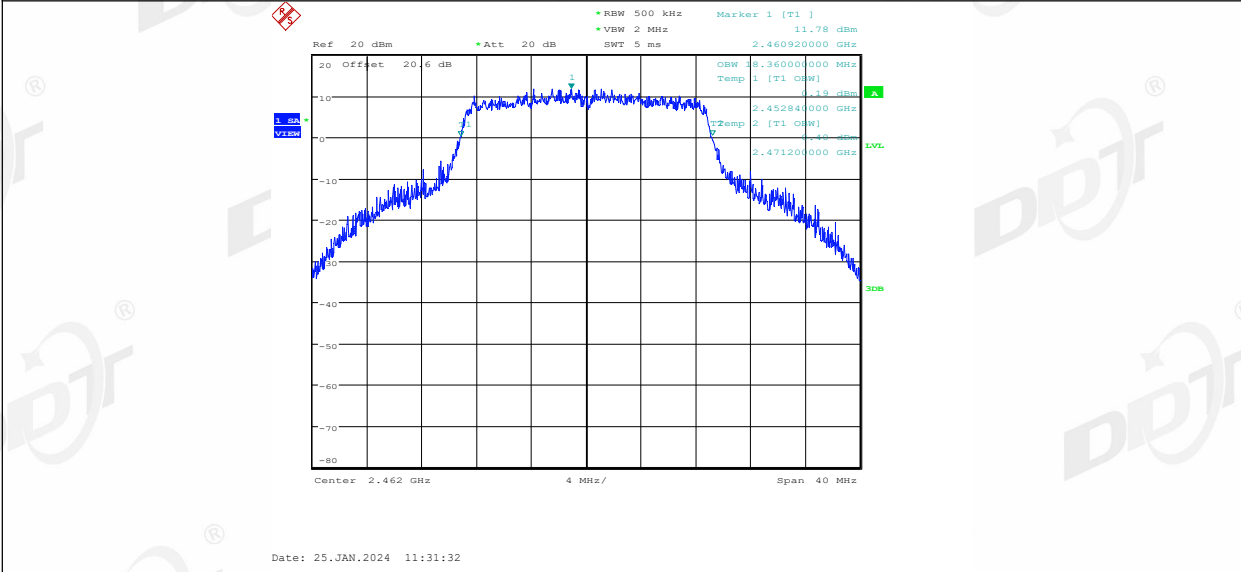
11N20MIMO_Ant2_2437



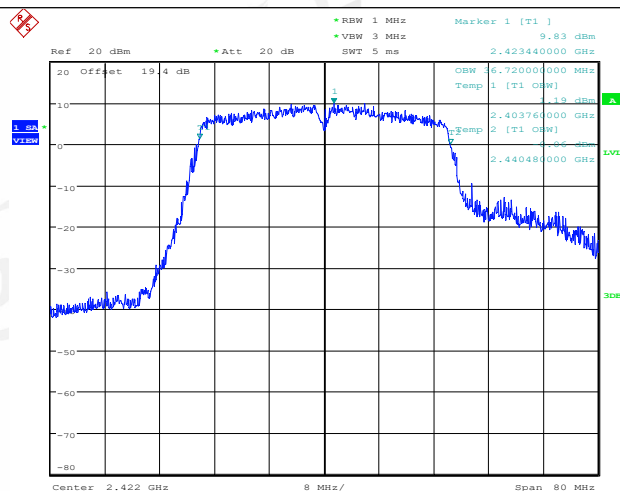
11N20MIMO_Ant1_2462



11N20MIMO_Ant2_2462

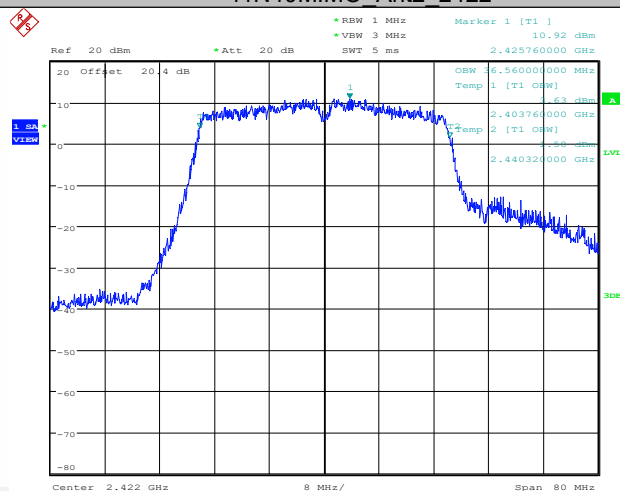


11N40MIMO_Ant1_2422



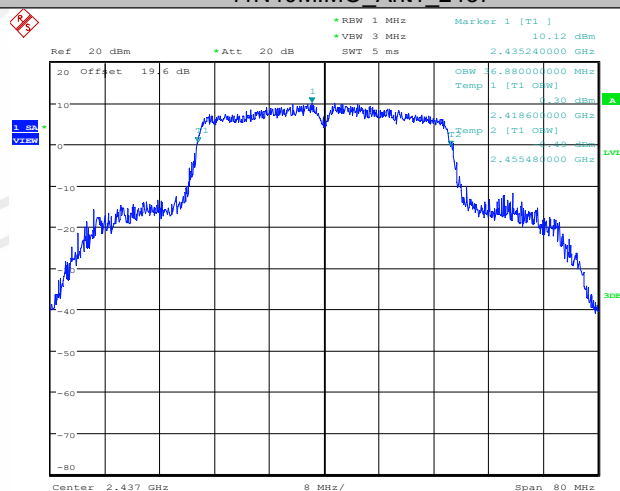
Date: 25.JAN.2024 11:34:49

11N40MIMO Ant2 2422



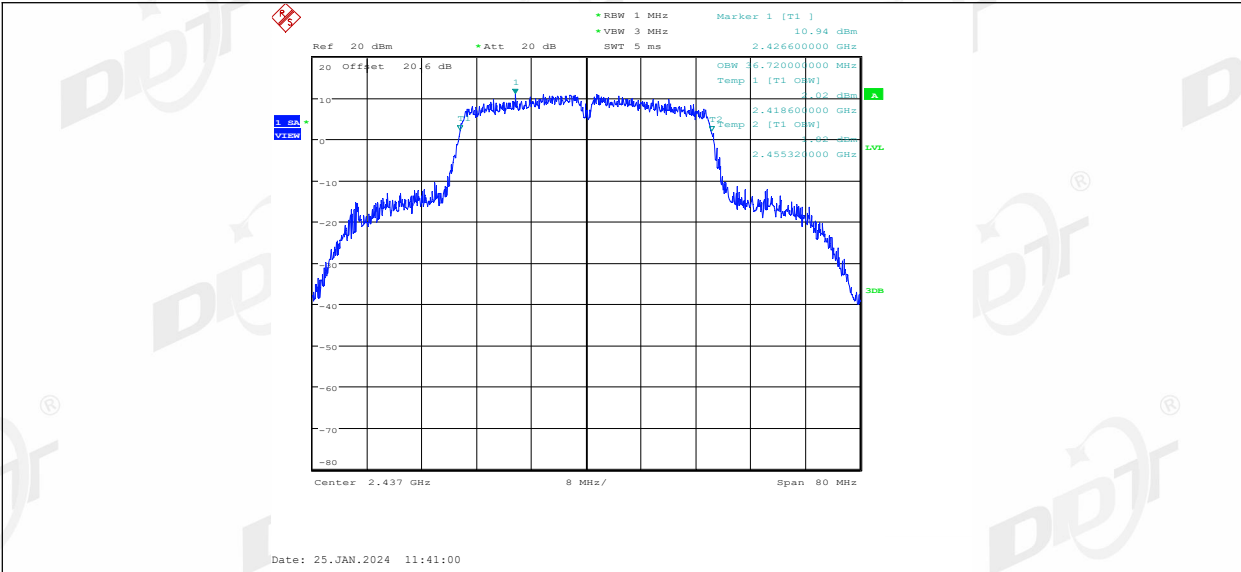
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11N40MIMO_Ant1_2437

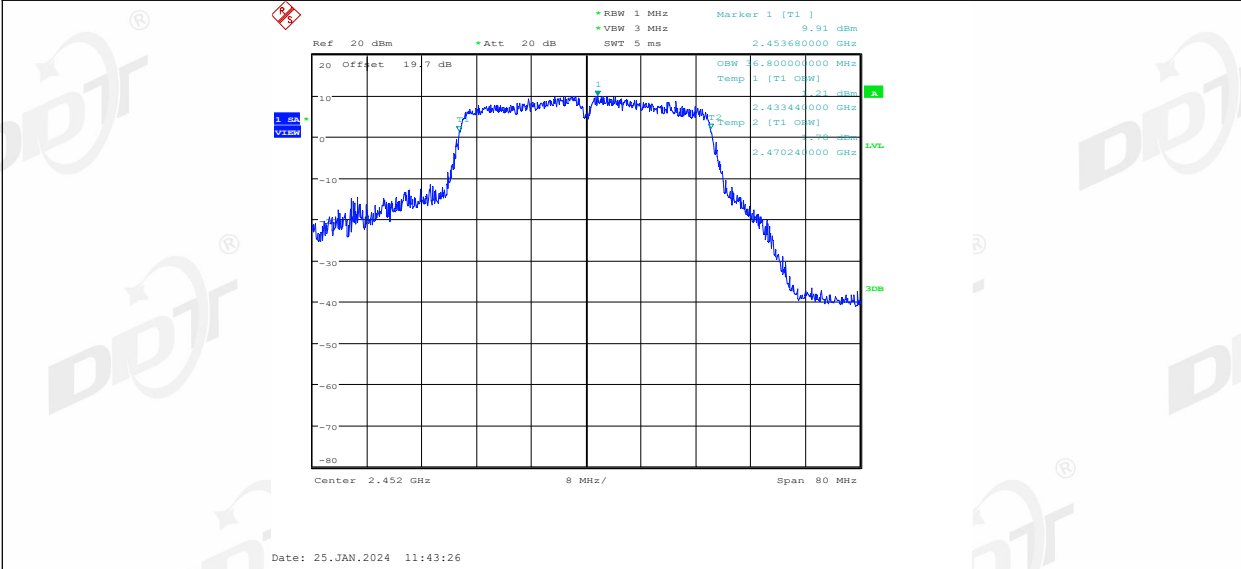


Date: 25.JAN.2024 11:39:17

11N40MIMO_Ant2_2437



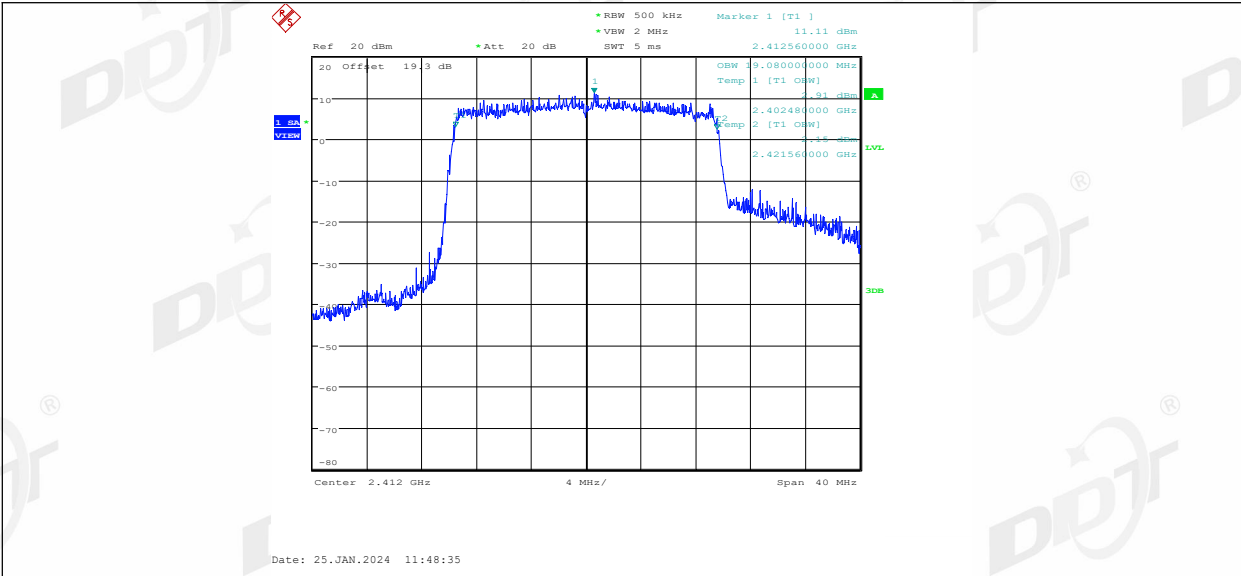
11N40MIMO_Ant1_2452



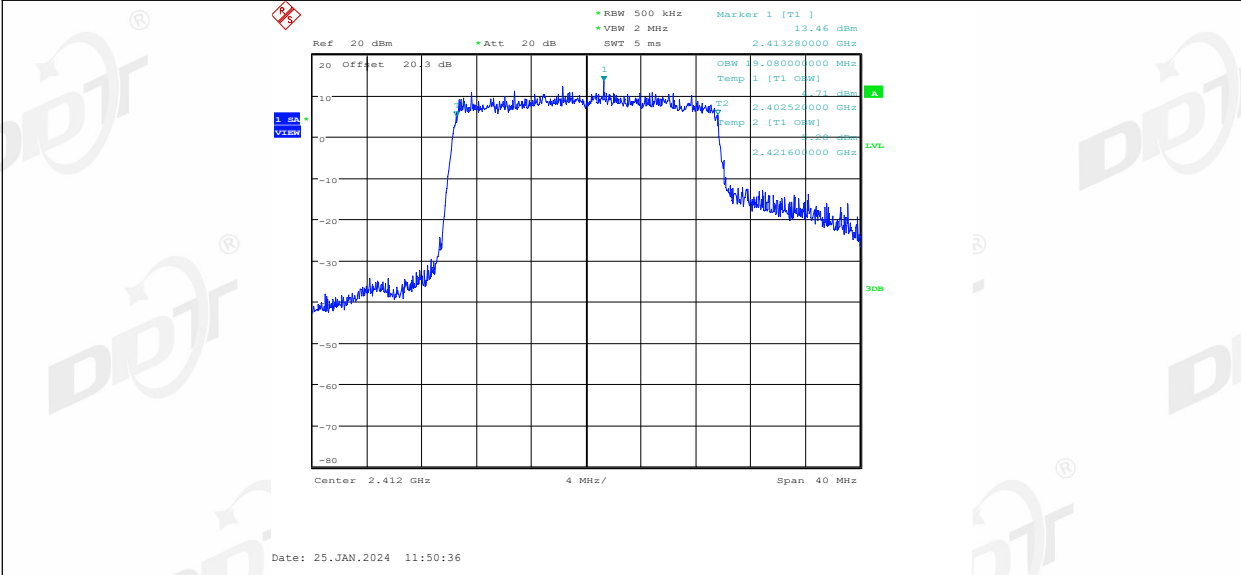
11N40MIMO_Ant2_2452



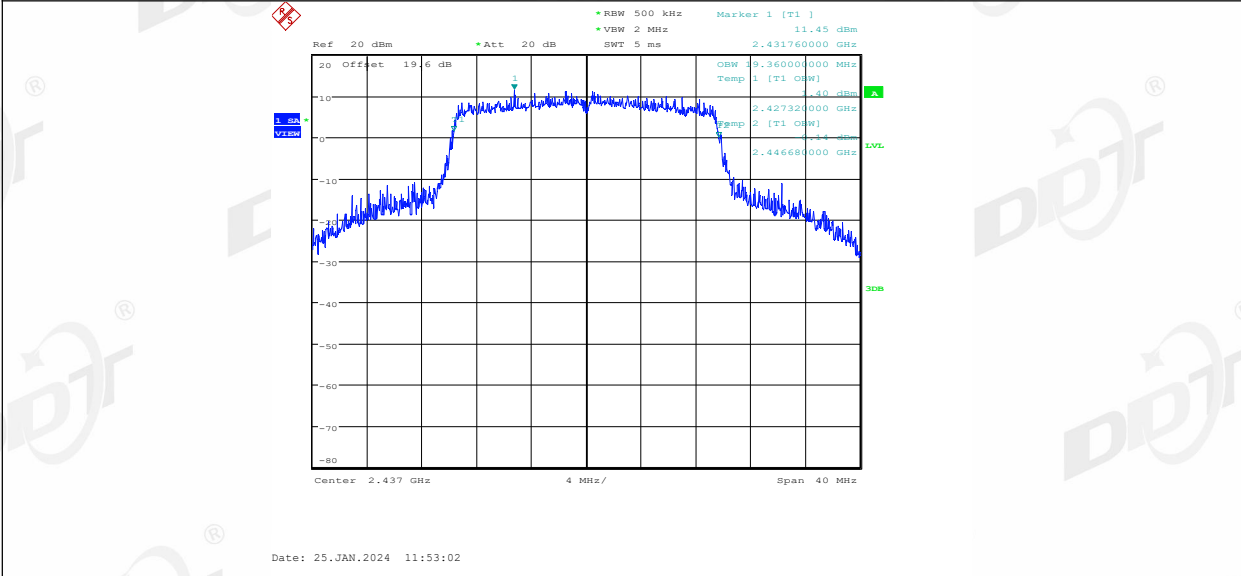
11AX20MIMO_Ant1_2412



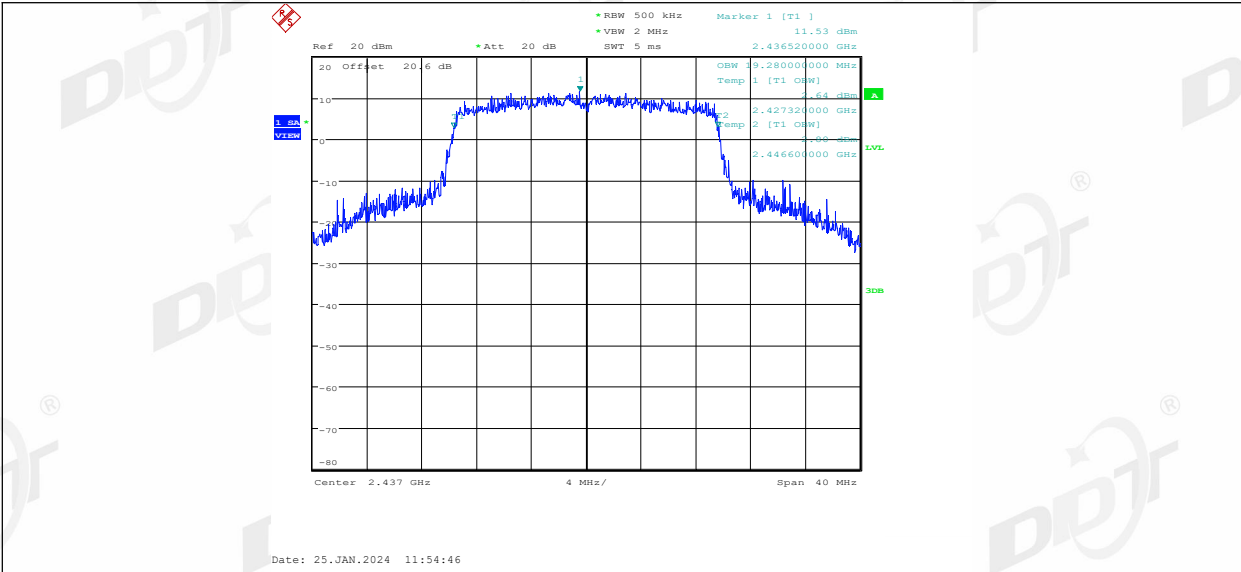
11AX20MIMO_Ant2_2412



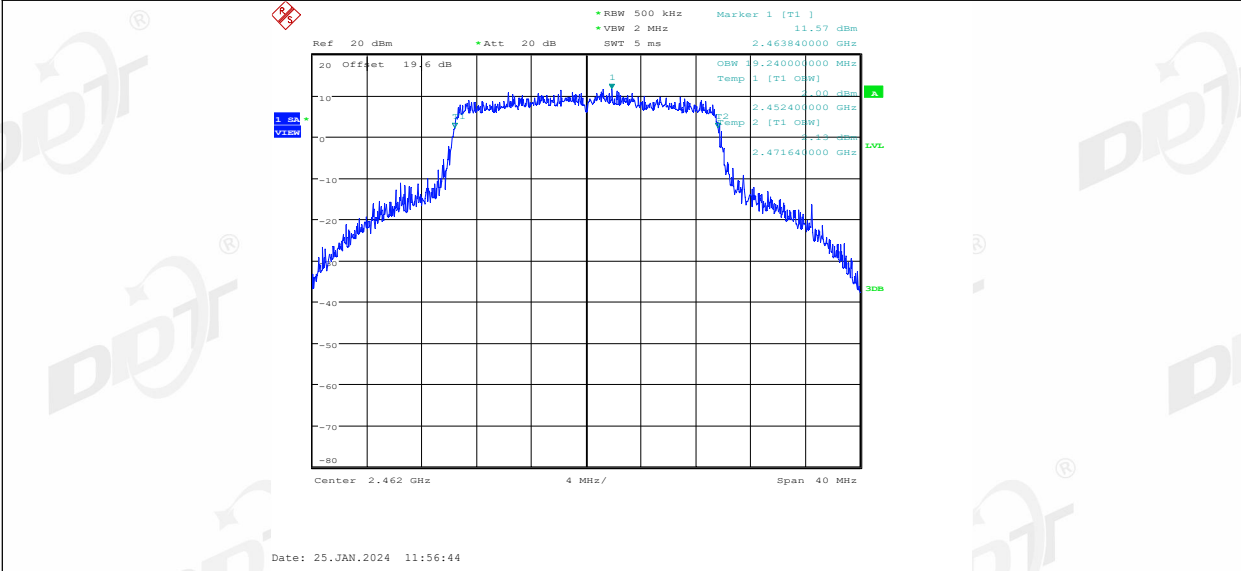
11AX20MIMO_Ant1_2437



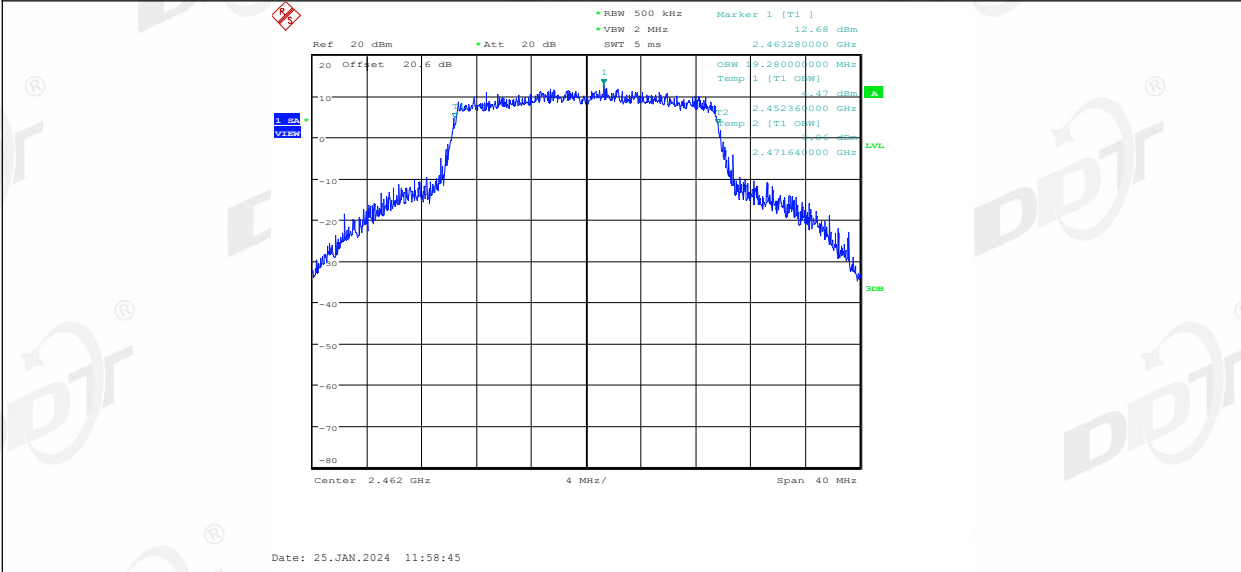
11AX20MIMO_Ant2_2437



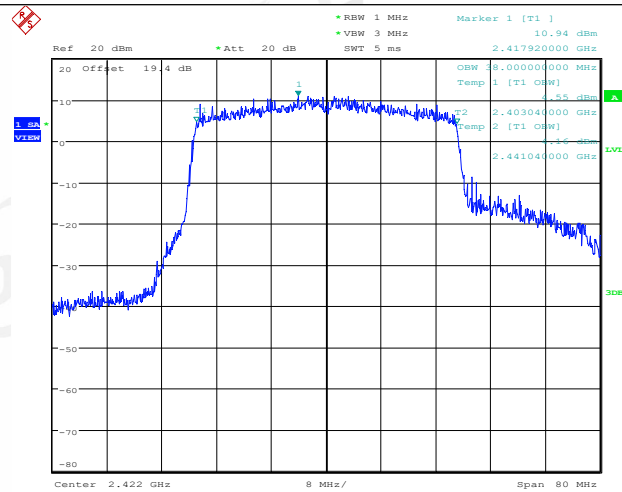
11AX20MIMO_Ant1_2462



11AX20MIMO_Ant2_2462

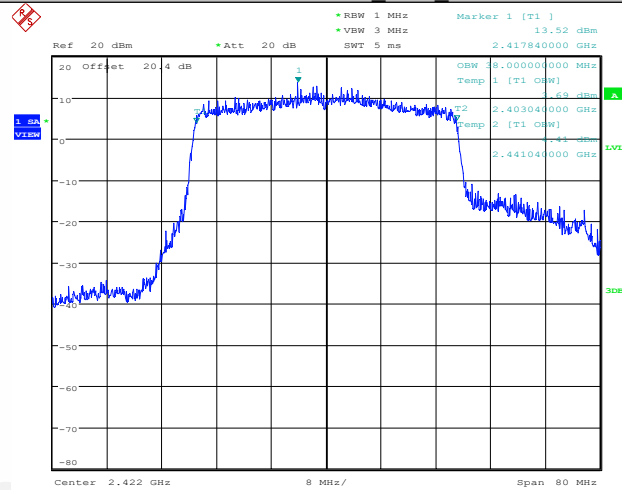


11AX40MIMO_Ant1_2422



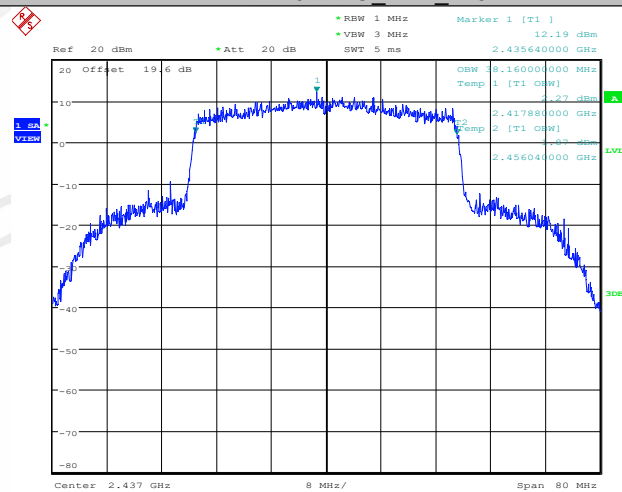
Date: 25.JAN.2024 13:44:45

11AX40MIMO_Ant2_2422



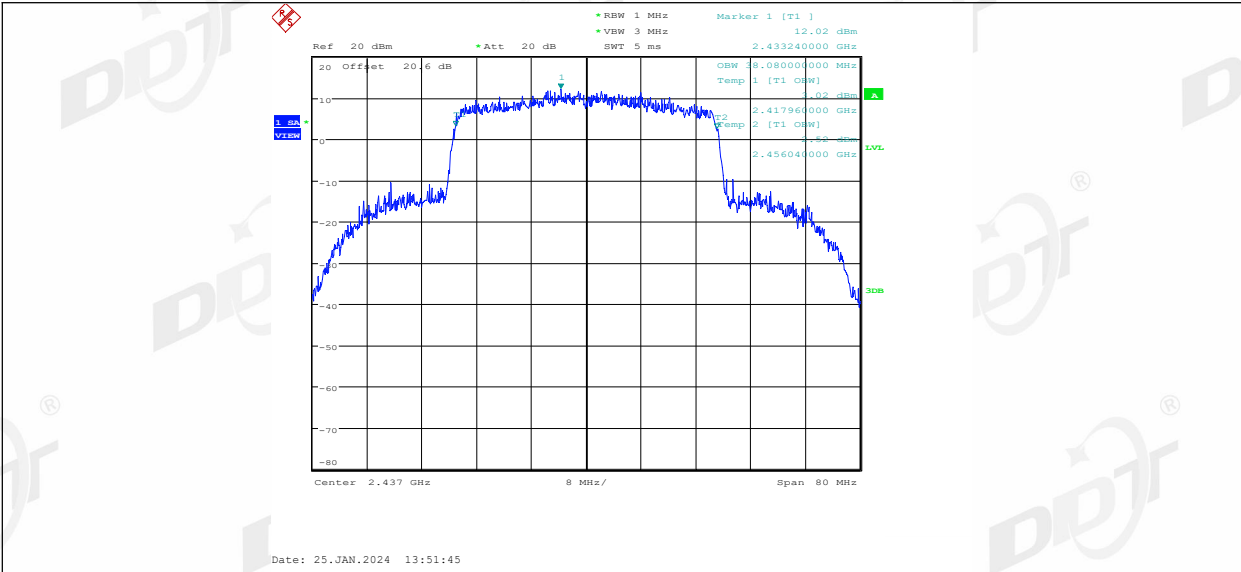
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11AX40MIMO_Ant1_2437

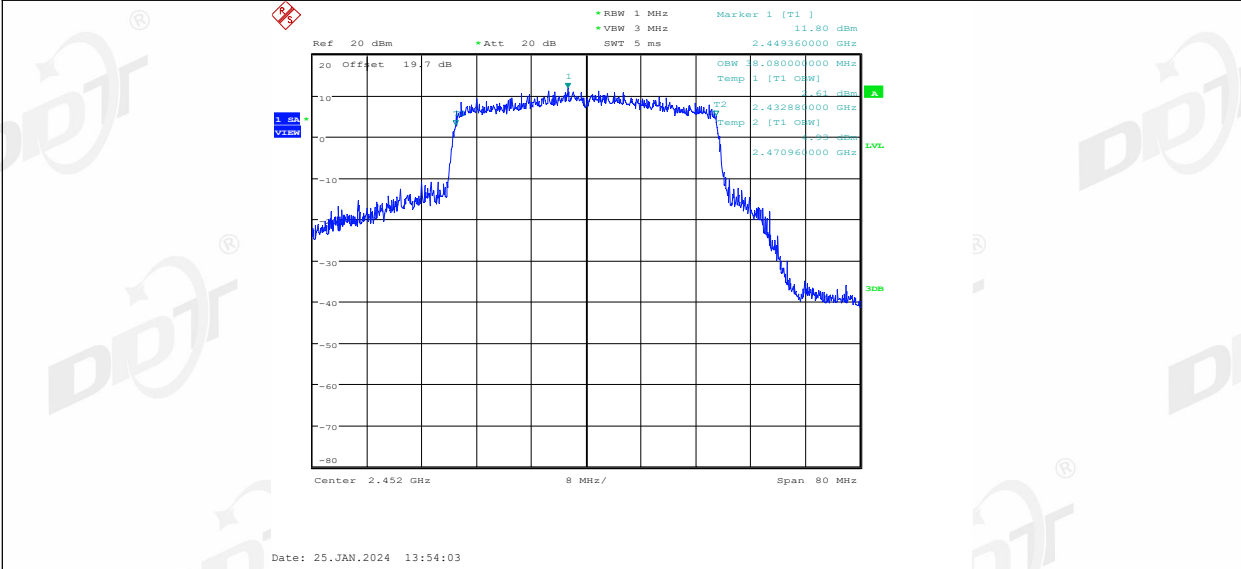


Date: 25.JAN.2024 13:50:02

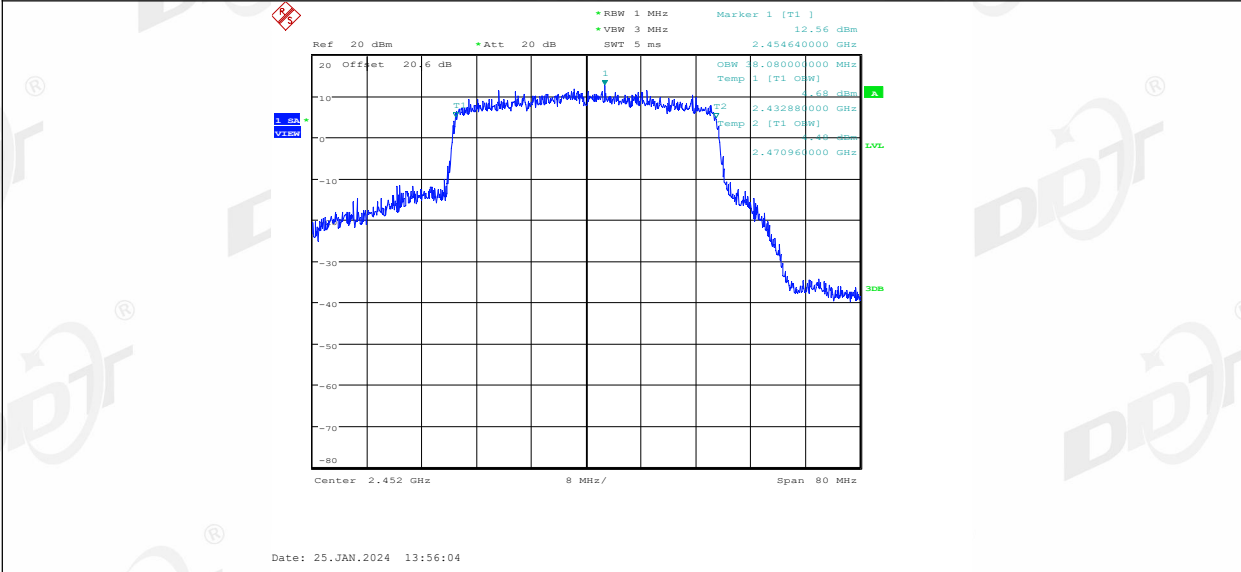
11AX40MIMO_Ant2_2437



11AX40MIMO Ant1 2452

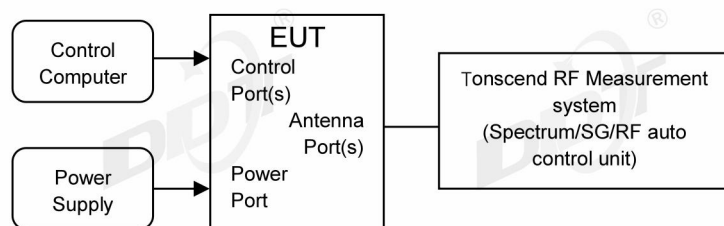


11AX40MIMO Ant2 2452



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

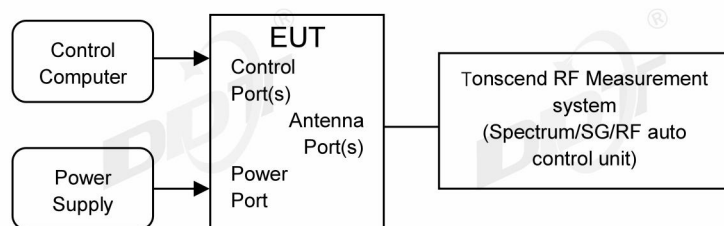
Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	23.6℃,64%RH	Test Date:	2024.01.29-2024.02.02
Test Power Supply:	AC230V/50Hz	EUT:	Mercku M6s Nano Mesh Wi-Fi Router
Sample Number:	S23111605-01	Model No.:	MBAA0

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	21.99	99.41	0.03	22.02	≤30.00	27.31	≤36.00	PASS
	Ant2	2412	22.70	99.29	0.03	22.73	≤30.00	28.02	≤36.00	PASS
	Ant1	2437	22.19	99.29	0.03	22.22	≤30.00	27.51	≤36.00	PASS
	Ant2	2437	22.73	99.29	0.03	22.76	≤30.00	28.05	≤36.00	PASS
	Ant1	2462	22.63	99.29	0.03	22.66	≤30.00	27.95	≤36.00	PASS
	Ant2	2462	23.66	99.29	0.03	23.69	≤30.00	28.98	≤36.00	PASS
11G	Ant1	2412	17.42	95.92	0.18	17.60	≤30.00	22.89	≤36.00	PASS
	Ant2	2412	17.90	95.89	0.18	18.08	≤30.00	23.37	≤36.00	PASS
	Ant1	2437	17.48	95.89	0.18	17.66	≤30.00	22.95	≤36.00	PASS
	Ant2	2437	17.83	95.89	0.18	18.01	≤30.00	23.3	≤36.00	PASS
	Ant1	2462	18.00	95.89	0.18	18.18	≤30.00	23.47	≤36.00	PASS
	Ant2	2462	18.73	95.92	0.18	18.91	≤30.00	24.2	≤36.00	PASS
11N20 MIMO	Ant1	2412	15.24	91.89	0.37	15.61	≤30.00	20.9	≤36.00	PASS
	Ant2	2412	15.85	91.89	0.37	16.22	≤30.00	21.51	≤36.00	PASS
	total	2412	---	---	---	18.94	≤30.00	24.23	≤36.00	PASS
	Ant1	2437	15.32	91.89	0.37	15.69	≤30.00	20.98	≤36.00	PASS
	Ant2	2437	15.76	91.89	0.37	16.13	≤30.00	21.42	≤36.00	PASS
	total	2437	---	---	---	18.93	≤30.00	24.22	≤36.00	PASS
	Ant1	2462	15.89	91.89	0.37	16.26	≤30.00	21.55	≤36.00	PASS
	Ant2	2462	16.61	91.89	0.37	16.98	≤30.00	22.27	≤36.00	PASS
11N40 MIMO	total	2462	---	---	---	19.65	≤30.00	24.94	≤36.00	PASS
	Ant1	2422	14.67	85.37	0.69	15.36	≤30.00	20.65	≤36.00	PASS
	Ant2	2422	15.20	85.37	0.69	15.89	≤30.00	21.18	≤36.00	PASS
	total	2422	---	---	---	18.64	≤30.00	23.93	≤36.00	PASS
	Ant1	2437	14.70	85.37	0.69	15.39	≤30.00	20.68	≤36.00	PASS
	Ant2	2437	15.16	85.37	0.69	15.85	≤30.00	21.14	≤36.00	PASS
	total	2437	---	---	---	18.64	≤30.00	23.93	≤36.00	PASS
	Ant1	2452	14.74	85.37	0.69	15.43	≤30.00	20.72	≤36.00	PASS
11AX20 MIMO	Ant2	2452	15.31	85.37	0.69	16.00	≤30.00	21.29	≤36.00	PASS
	total	2452	---	---	---	18.73	≤30.00	24.02	≤36.00	PASS
	Ant1	2412	14.79	77.78	1.09	15.88	≤30.00	21.17	≤36.00	PASS
	Ant2	2412	15.37	77.78	1.09	16.46	≤30.00	21.75	≤36.00	PASS
	total	2412	---	---	---	19.19	≤30.00	24.48	≤36.00	PASS
	Ant1	2437	14.82	76.92	1.14	15.96	≤30.00	21.25	≤36.00	PASS
	Ant2	2437	15.32	77.78	1.09	16.41	≤30.00	21.7	≤36.00	PASS
	total	2437	---	---	---	19.20	≤30.00	24.49	≤36.00	PASS
11AX40 MIMO	Ant1	2462	15.27	76.92	1.14	16.41	≤30.00	21.7	≤36.00	PASS
	Ant2	2462	16.10	77.78	1.09	17.19	≤30.00	22.48	≤36.00	PASS
	total	2462	---	---	---	19.83	≤30.00	25.12	≤36.00	PASS
	Ant1	2422	14.80	84.21	0.75	15.55	≤30.00	20.84	≤36.00	PASS
	Ant2	2422	15.43	84.21	0.75	16.18	≤30.00	21.47	≤36.00	PASS
	total	2422	---	---	---	18.89	≤30.00	24.18	≤36.00	PASS
	Ant1	2437	14.85	84.21	0.75	15.60	≤30.00	20.89	≤36.00	PASS
	Ant2	2437	15.38	84.21	0.75	16.13	≤30.00	21.42	≤36.00	PASS
	total	2437	---	---	---	18.88	≤30.00	24.17	≤36.00	PASS
	Ant1	2452	14.87	84.21	0.75	15.62	≤30.00	20.91	≤36.00	PASS
	Ant2	2452	15.49	84.21	0.75	16.24	≤30.00	21.53	≤36.00	PASS
	total	2452	---	---	---	18.95	≤30.00	24.24	≤36.00	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
Trace	Employ trace averaging (rms) 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.

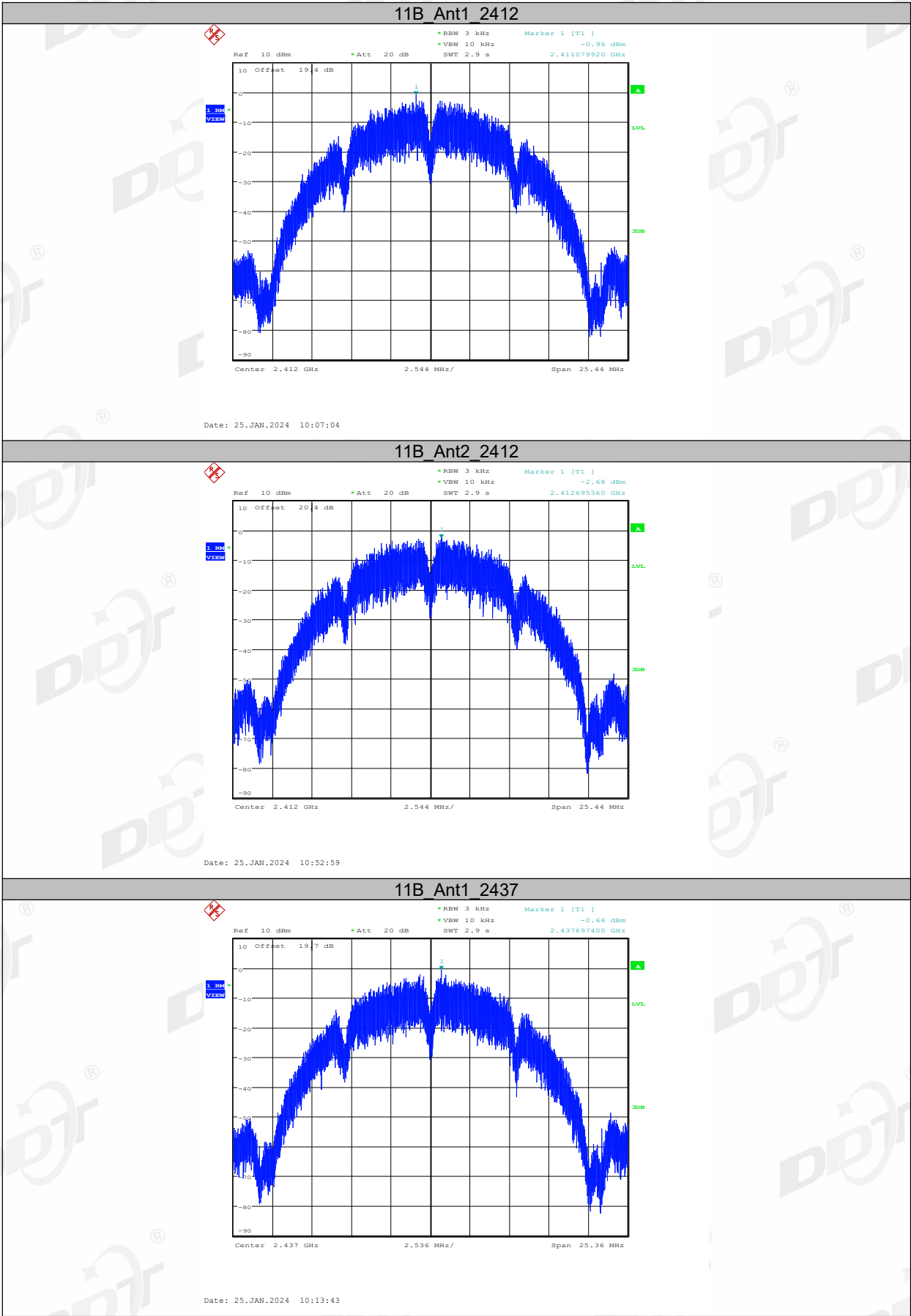
7.4. Test result

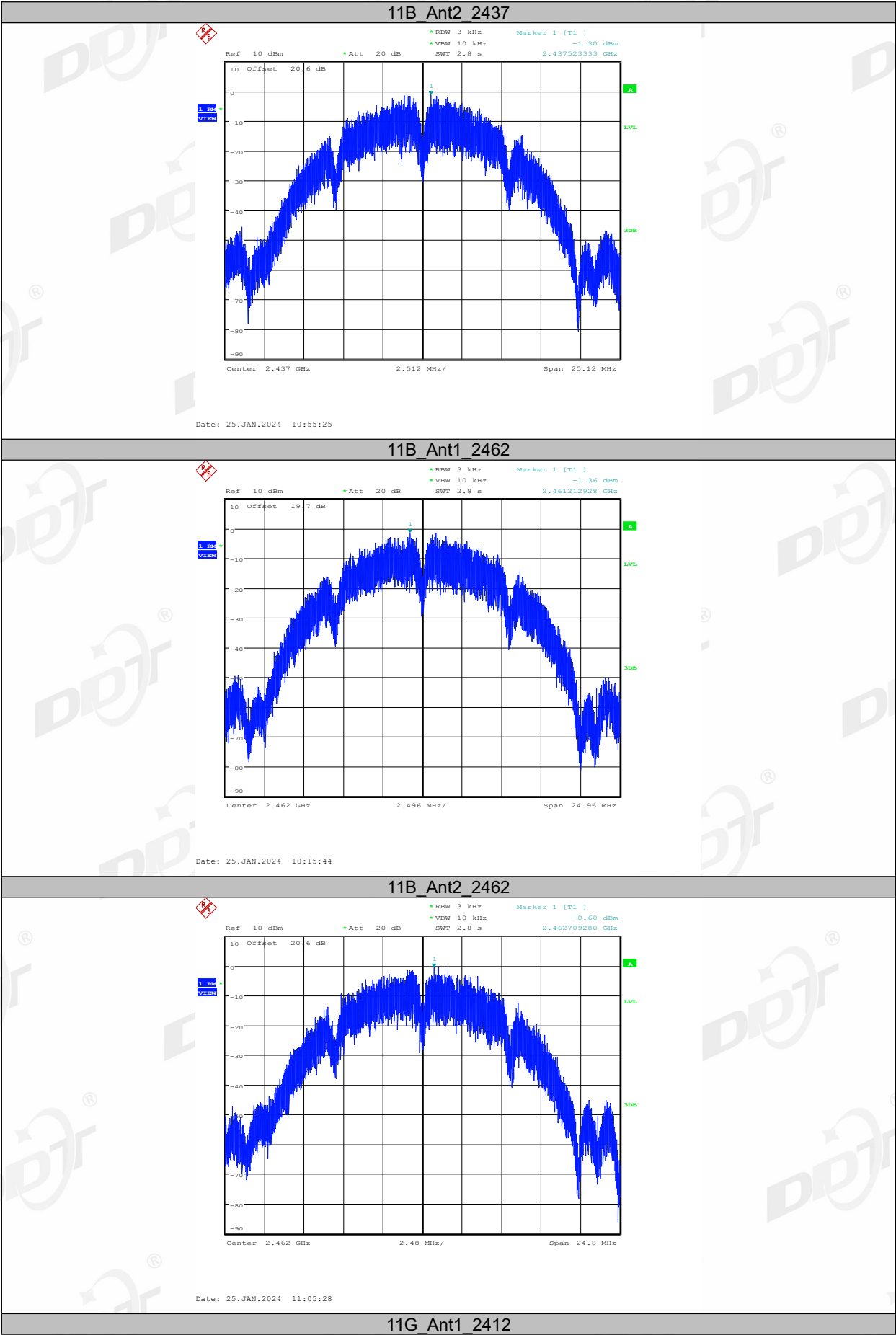
Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	23.6℃,64%RH	Test Date:	2024.01.29-2024.02.02
Test Power Supply:	AC230V/50Hz	EUT:	Mercku M6s Nano Mesh Wi-Fi Router
Sample Number:	S23111605-01	Model No.:	MBAA0

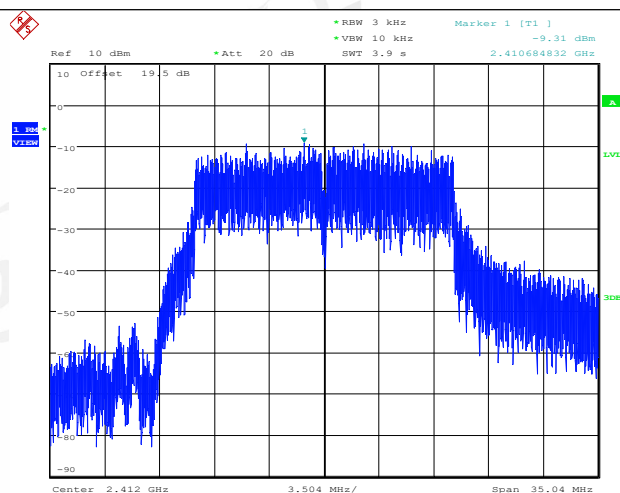
Test Mode	Antenna	Frequency [MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-0.96	≤8.00	PASS
	Ant2	2412	-2.68	≤8.00	PASS
	Ant1	2437	-0.66	≤8.00	PASS
	Ant2	2437	-1.30	≤8.00	PASS
	Ant1	2462	-1.36	≤8.00	PASS
	Ant2	2462	-0.60	≤8.00	PASS
11G	Ant1	2412	-9.31	≤8.00	PASS
	Ant2	2412	-7.03	≤8.00	PASS
	Ant1	2437	-8.00	≤8.00	PASS
	Ant2	2437	-7.22	≤8.00	PASS
	Ant1	2462	-7.19	≤8.00	PASS
	Ant2	2462	-6.81	≤8.00	PASS
11N20MIMO	Ant1	2412	-10.92	≤8.00	PASS
	Ant2	2412	-9.12	≤8.00	PASS
	total	2412	-6.92	≤8.00	PASS
	Ant1	2437	-10.65	≤8.00	PASS
	Ant2	2437	-10.00	≤8.00	PASS
	total	2437	-7.30	≤8.00	PASS
	Ant1	2462	-10.67	≤8.00	PASS
	Ant2	2462	-8.60	≤8.00	PASS
	total	2462	-6.50	≤8.00	PASS
	total	2412	-6.92	≤8.00	PASS
11N40MIMO	Ant1	2422	-21.06	≤8.00	PASS
	Ant2	2422	-20.15	≤8.00	PASS
	total	2422	-17.57	≤8.00	PASS
	Ant1	2437	-20.19	≤8.00	PASS
	Ant2	2437	-20.08	≤8.00	PASS
	total	2437	-17.12	≤8.00	PASS
	Ant1	2452	-20.55	≤8.00	PASS
	Ant2	2452	-19.88	≤8.00	PASS
	total	2452	-17.19	≤8.00	PASS
	total	2422	-17.57	≤8.00	PASS
11AX20MIMO	Ant1	2412	-11.74	≤8.00	PASS
	Ant2	2412	-10.89	≤8.00	PASS
	total	2412	-8.28	≤8.00	PASS
	Ant1	2437	-11.27	≤8.00	PASS
	Ant2	2437	-9.26	≤8.00	PASS
	total	2437	-7.14	≤8.00	PASS
	Ant1	2462	-10.79	≤8.00	PASS
	Ant2	2462	-8.34	≤8.00	PASS
	total	2462	-6.38	≤8.00	PASS
	total	2412	-8.28	≤8.00	PASS
11AX40MIMO	Ant1	2422	-21.38	≤8.00	PASS
	Ant2	2422	-20.43	≤8.00	PASS
	total	2422	-17.87	≤8.00	PASS
	Ant1	2437	-20.99	≤8.00	PASS
	Ant2	2437	-20.08	≤8.00	PASS
	total	2437	-17.50	≤8.00	PASS
	Ant1	2452	-21.10	≤8.00	PASS
	Ant2	2452	-20.17	≤8.00	PASS
	total	2452	-17.60	≤8.00	PASS
	total	2422	-17.87	≤8.00	PASS

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

7.5. Test graphs

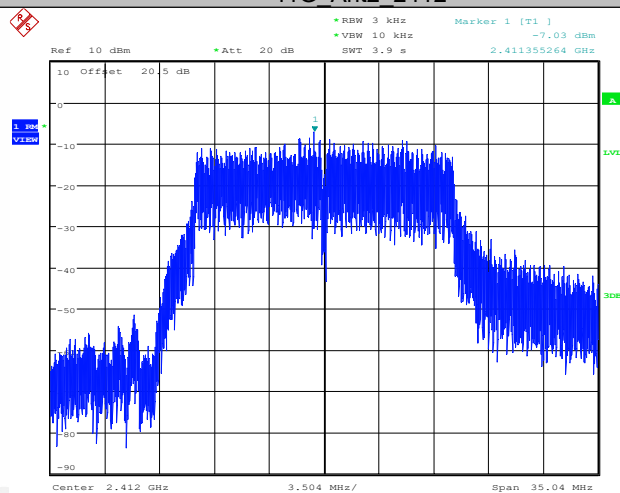






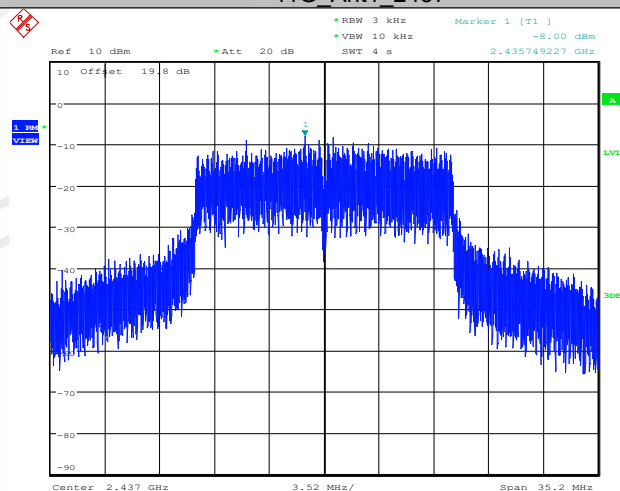
Date: 25.JAN.2024 10:19:45

11G Ant2 2412



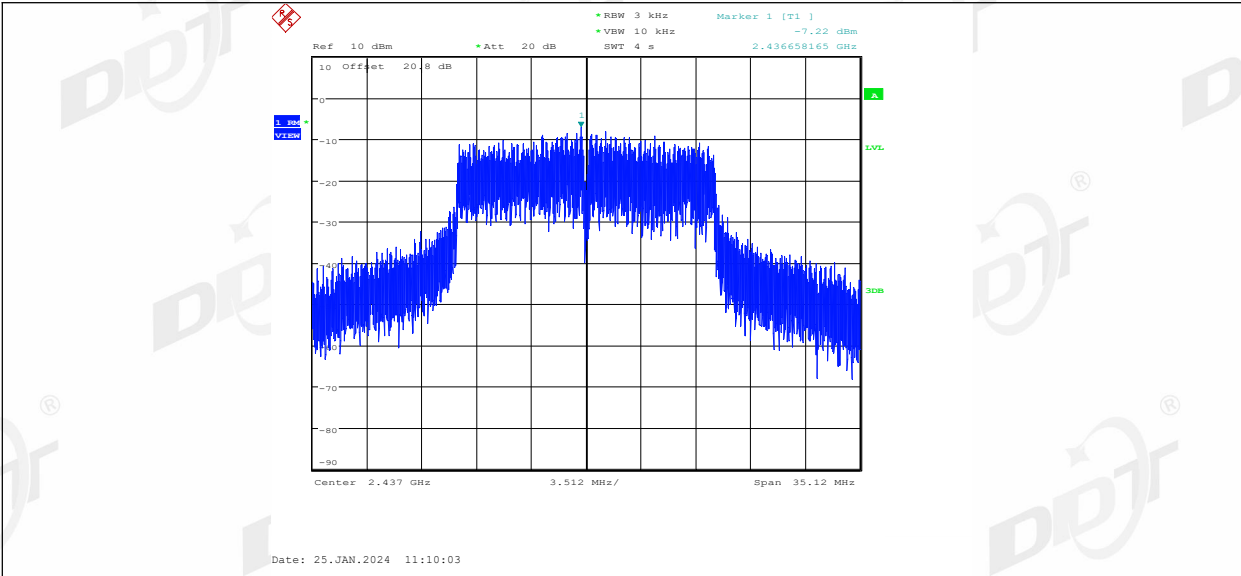
Date: 25.JAN.2024 11:07:49

11G_Ant1_2437

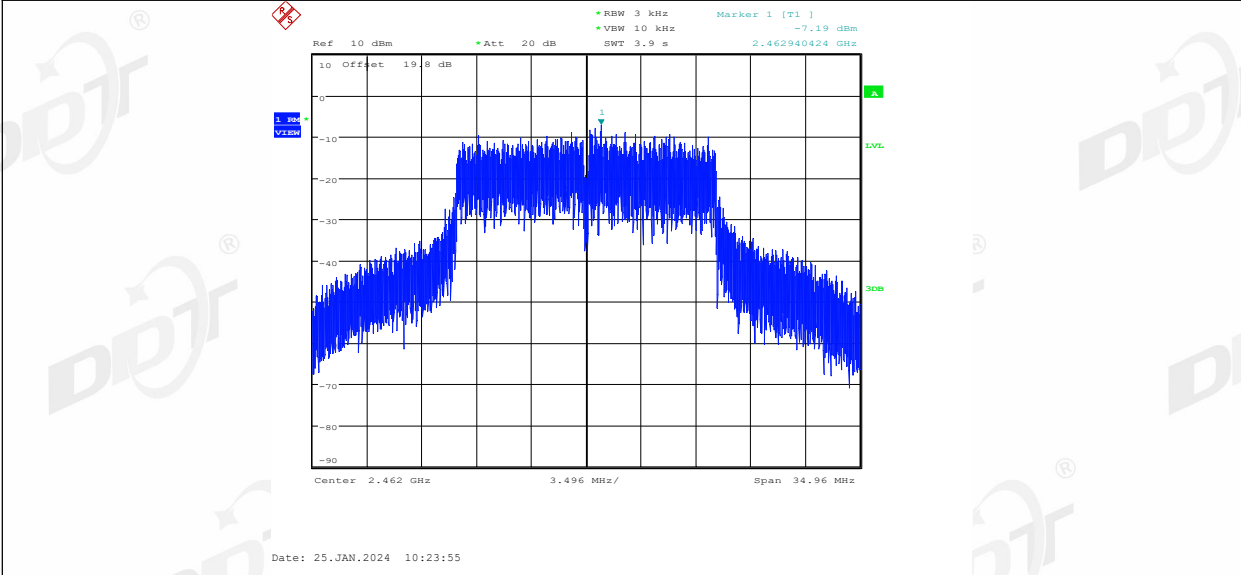


Date: 25.JAN.2024 10:21:56

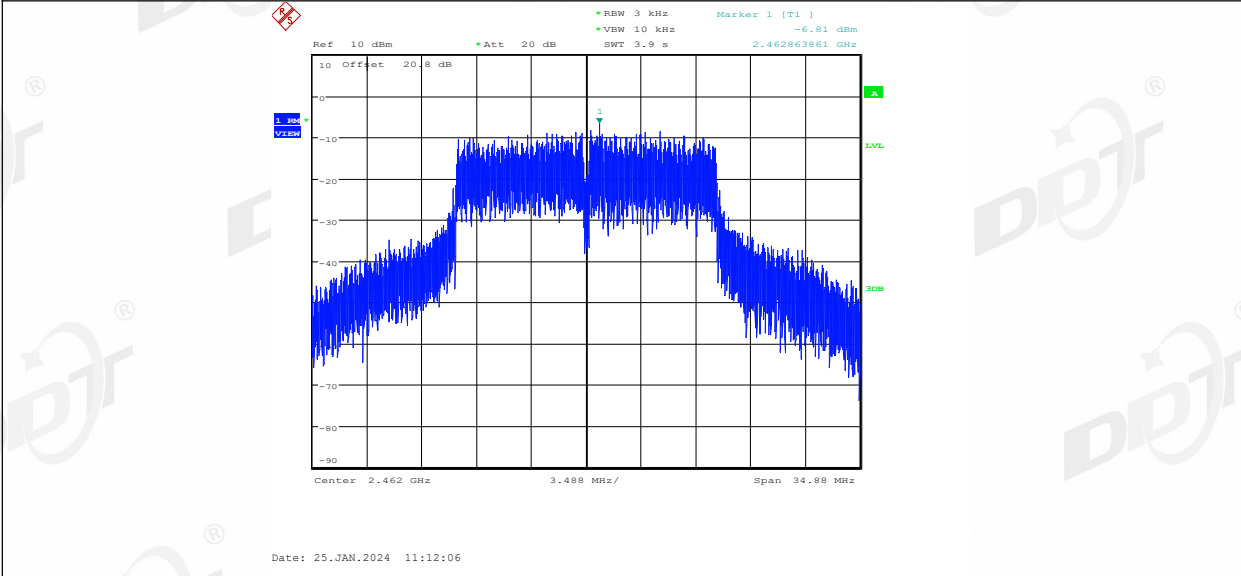
11G Ant2 2437



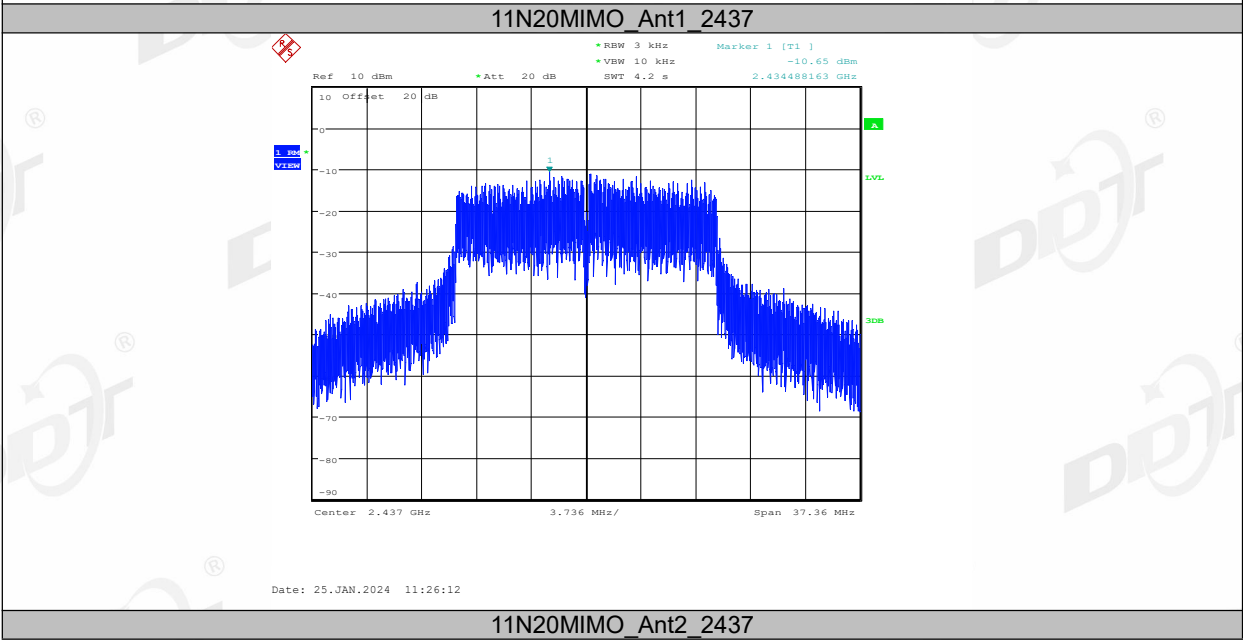
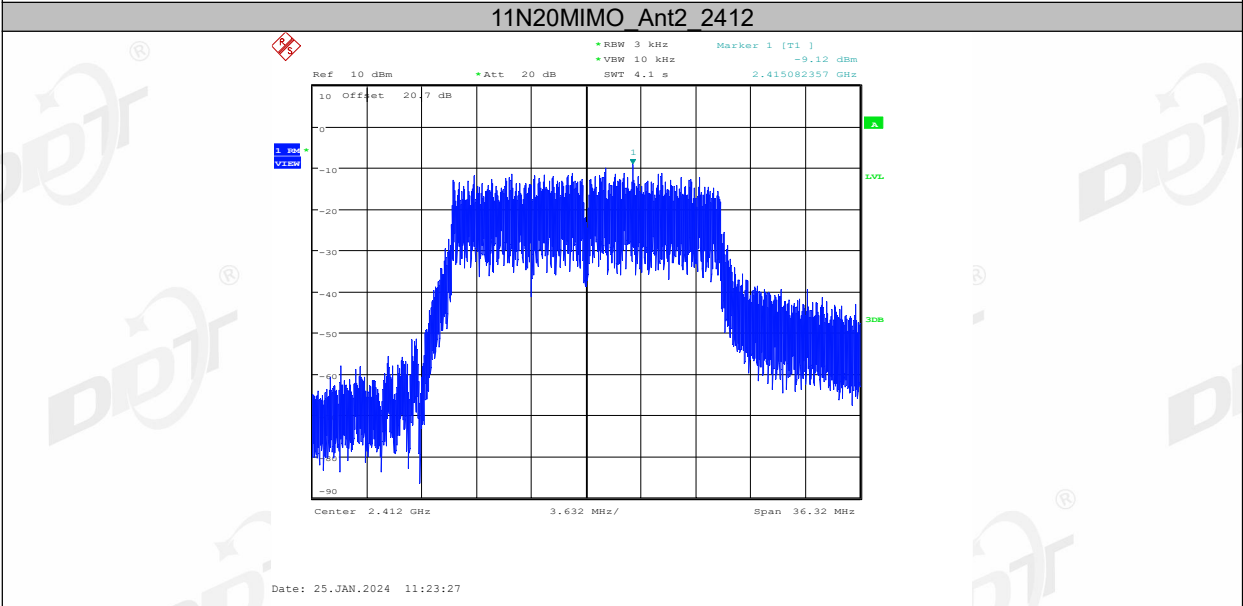
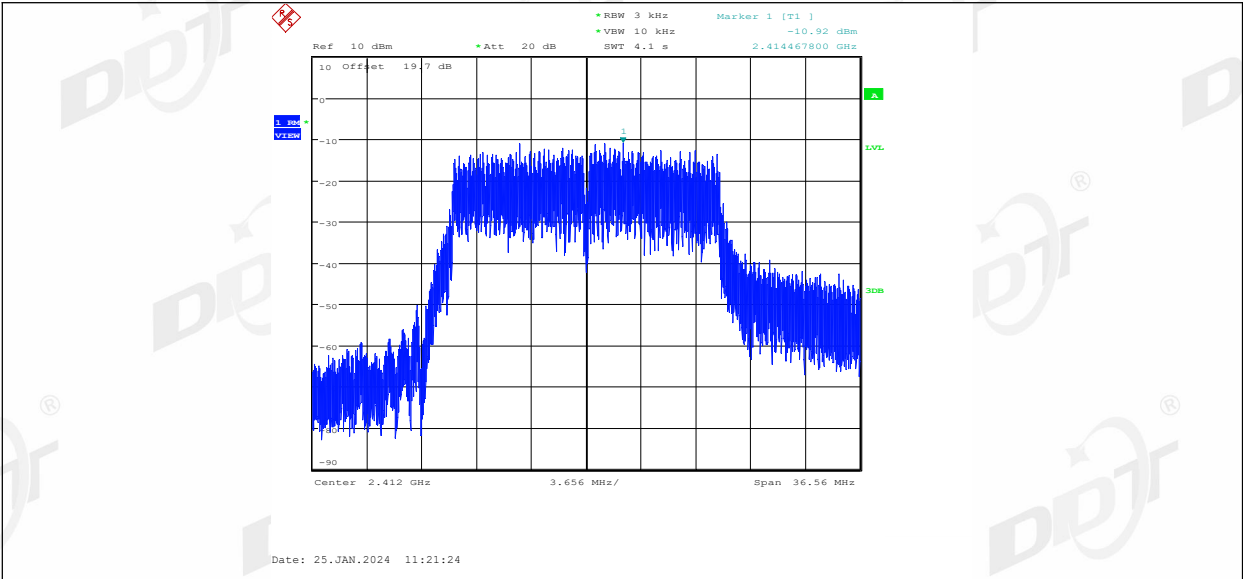
11G Ant1_2462



11G Ant2_2462



11N20MIMO Ant1_2412





The screenshot displays a Spectrum Analyzer interface. At the top, a red 'X' icon is visible. The main display area shows a blue trace of a signal with a prominent peak at 2.461724032 GHz, marked with a green vertical line and labeled 'Marker 1 [T1]'. The signal is noisy and has a bandwidth of approximately 20 dB. The frequency range is from 2.460 GHz to 2.462 GHz, with a center frequency of 2.462 GHz. The span is 36.96 MHz. The resolution bandwidth (RBW) is 3 kHz, and the video bandwidth (VBW) is 10 kHz. The sweep time (SWT) is 4.2 s. The attenuation (Att) is 20 dB. The reference level (Ref) is 10 dBm. The offset is 20 dB. The signal level is -10.67 dBm. The trace is labeled '1. RBW 3 kHz' and 'VBW 10 kHz'.

Date: 25.JAN.2024 11:29:54

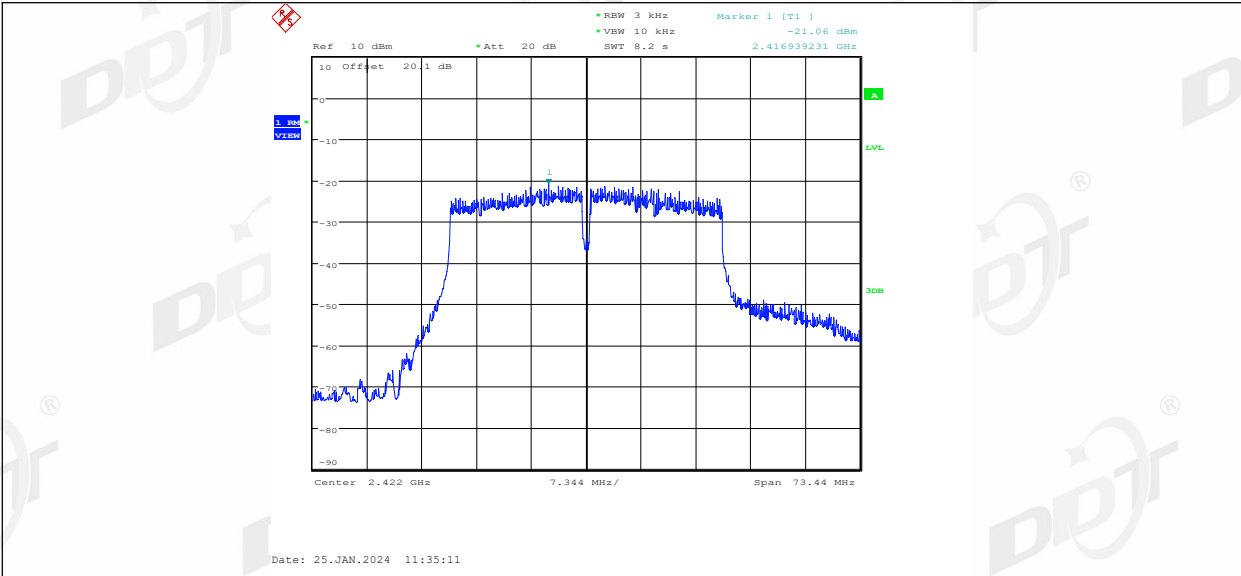
Ref 10 dBm * Att 20 dB RBW 3 kHz Marker 1 [T1] -8.60 dBm
 VBW 10 kHz SWT 4.1 s 2.462880056 GHz

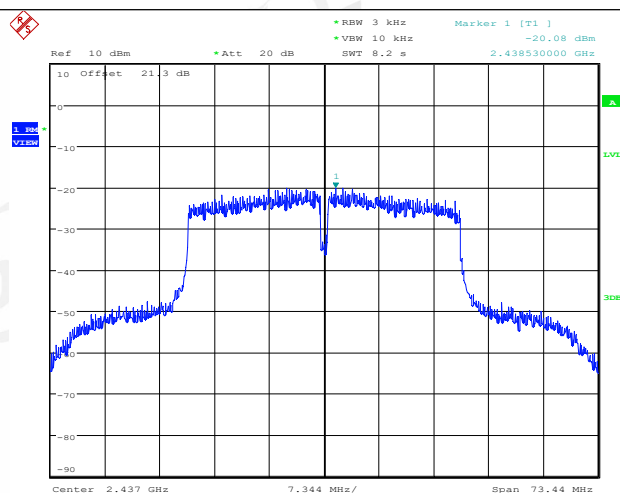
10 Offset 21 dB
 0
 -10
 -20
 -30
 -40
 -50
 -60
 -70
 -80
 -90

3.672 MHz/
 Span 36.72 MHz

Date: 25.JAN.2024 11:31:55

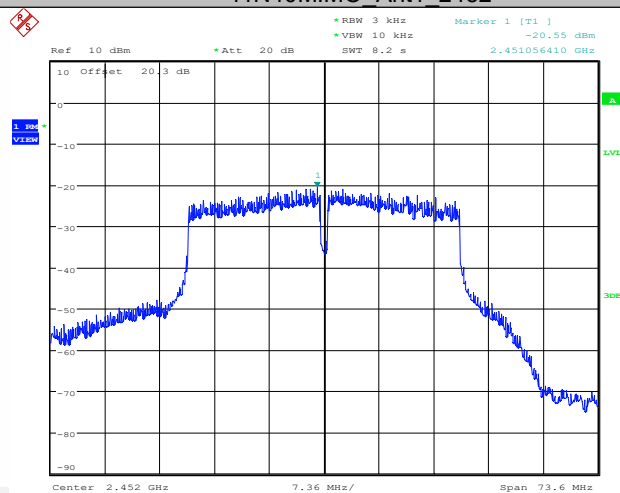
11N40MIMO_Ant1_2422





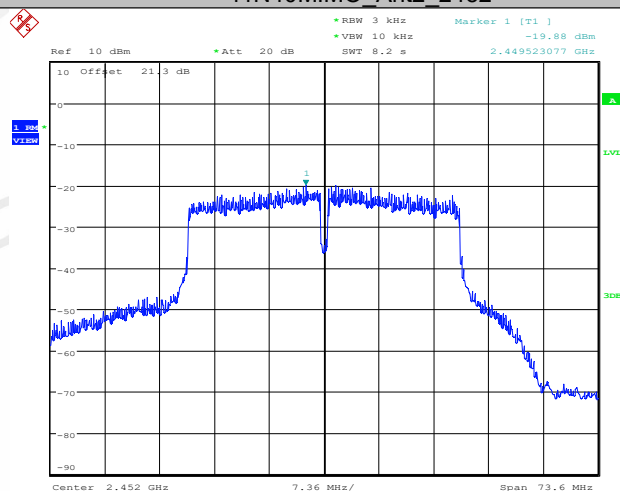
Date: 25.JAN.2024 11:41:23

11N40MIMO Ant1 2452



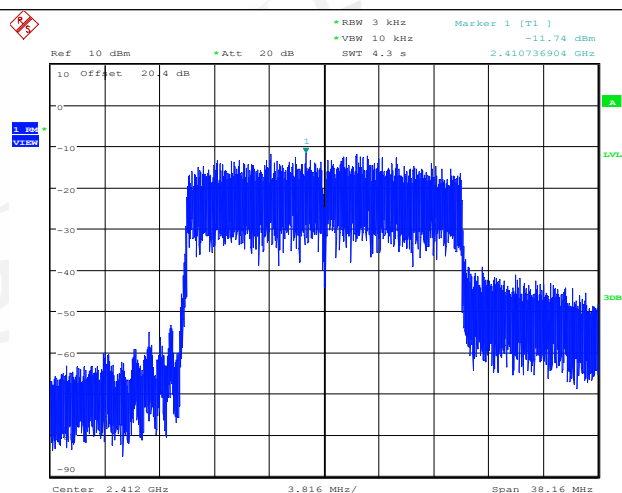
Date: 25.JAN.2024 11:43:47

11N40MIMO_Ant2_2452



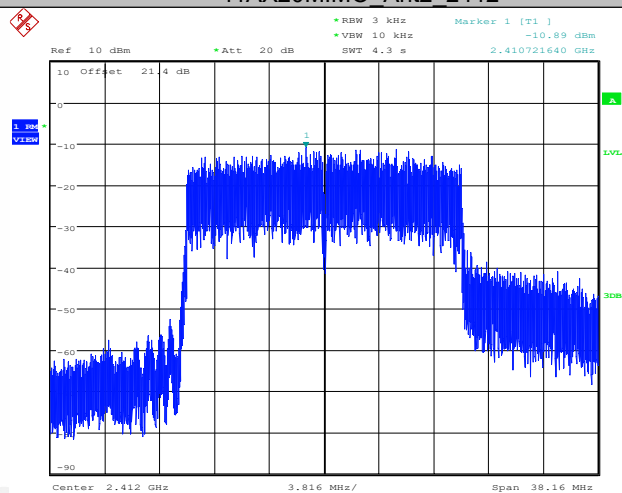
Date: 25.JAN.2024 11:45:49

11AX20MIMO_Ant1_2412



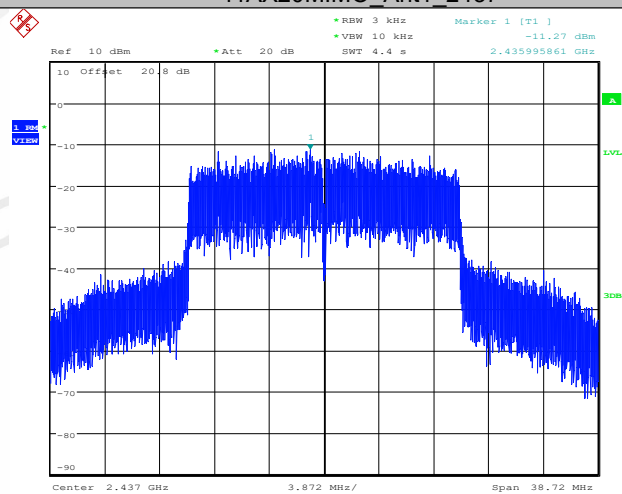
Date: 25.JAN.2024 11:48:57

11AX20MIMO Ant2 2412



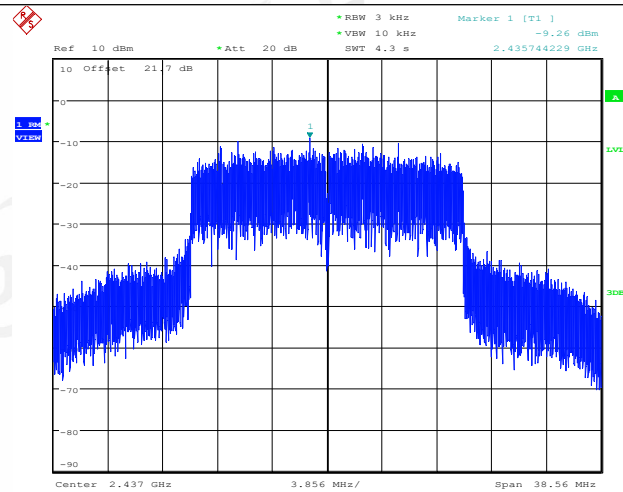
Date: 25.JAN.2024 11:51:00

11AX20MIMO_Ant1_2437



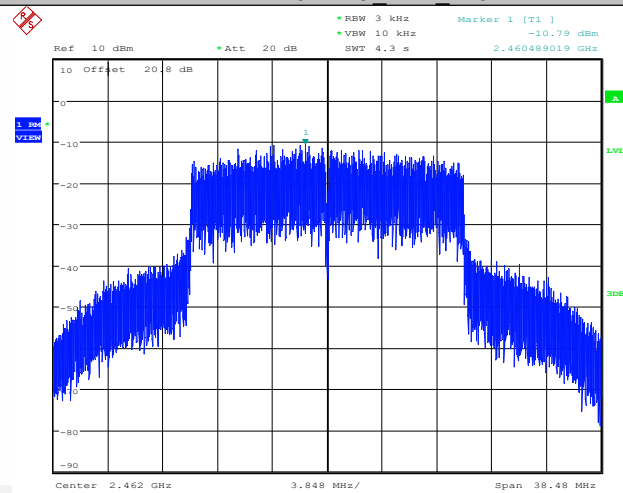
Date: 25.JAN.2024 11:53:24

11AX20MIMO Ant2 2437



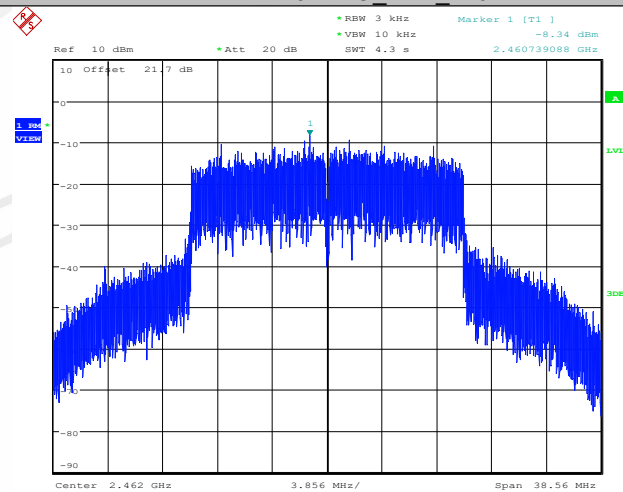
Date: 25.JAN.2024 11:55:10

11AX20MIMO_Ant1_2462



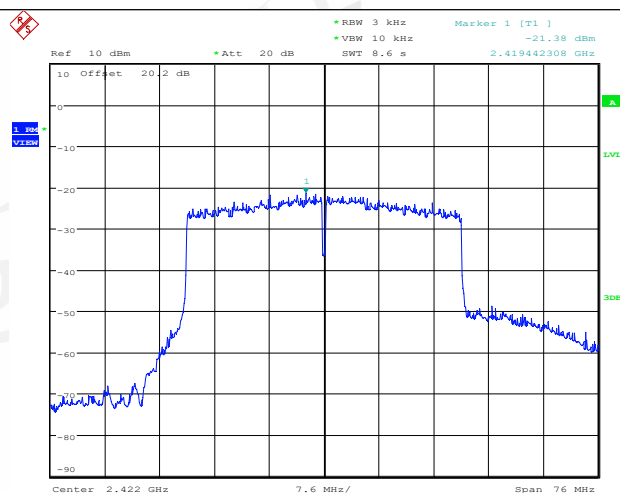
Date: 25.JAN.2024 11:57:06

11AX20MIMO_Ant2_2462



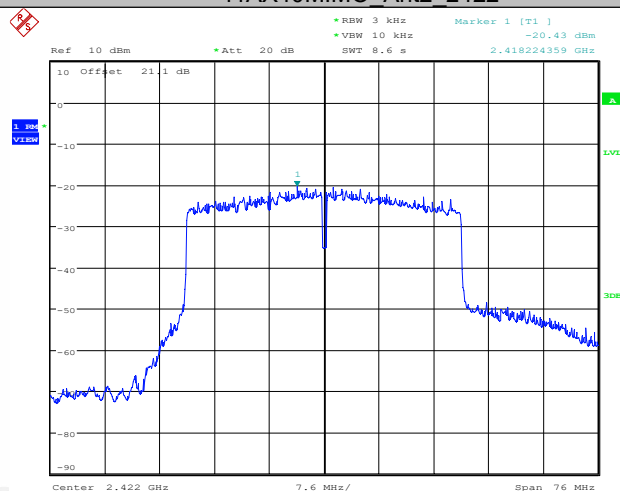
Date: 25.JAN.2024 11:59:09

11AX40MIMO_Ant1_2422



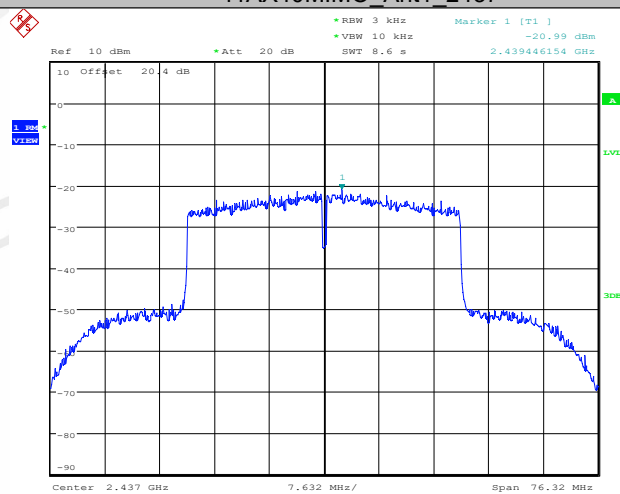
Date: 25.JAN.2024 13:45:06

11AX40MIMO Ant2 2422



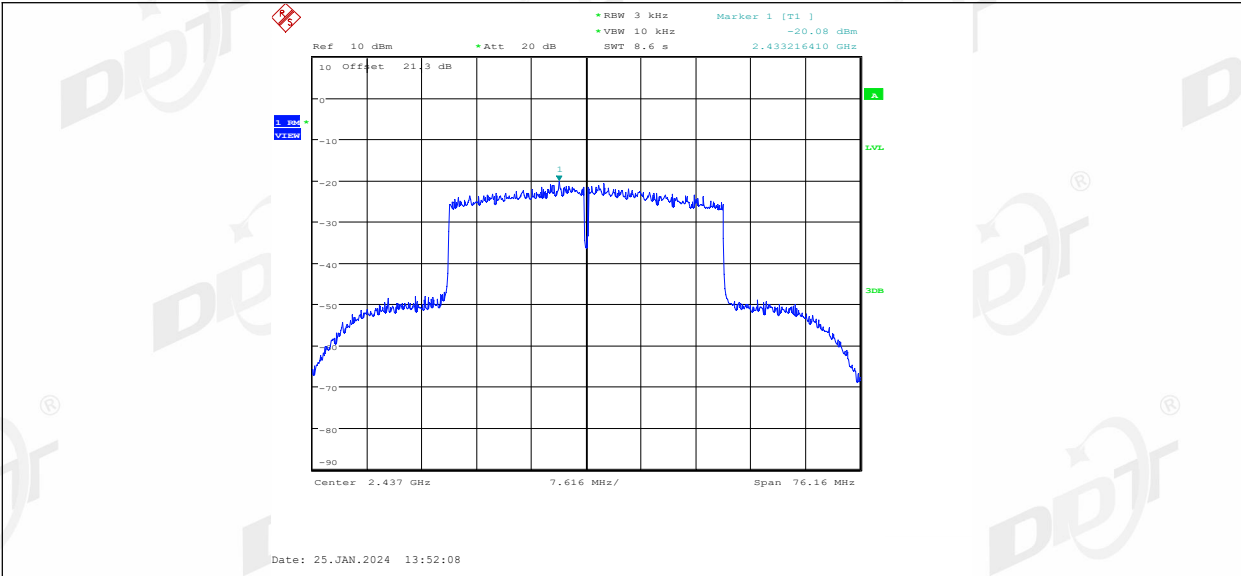
Date: 25.JAN.2024 13:47:08

11AX40MIMO_Ant1_2437



Date: 25.JAN.2024 13:50:23

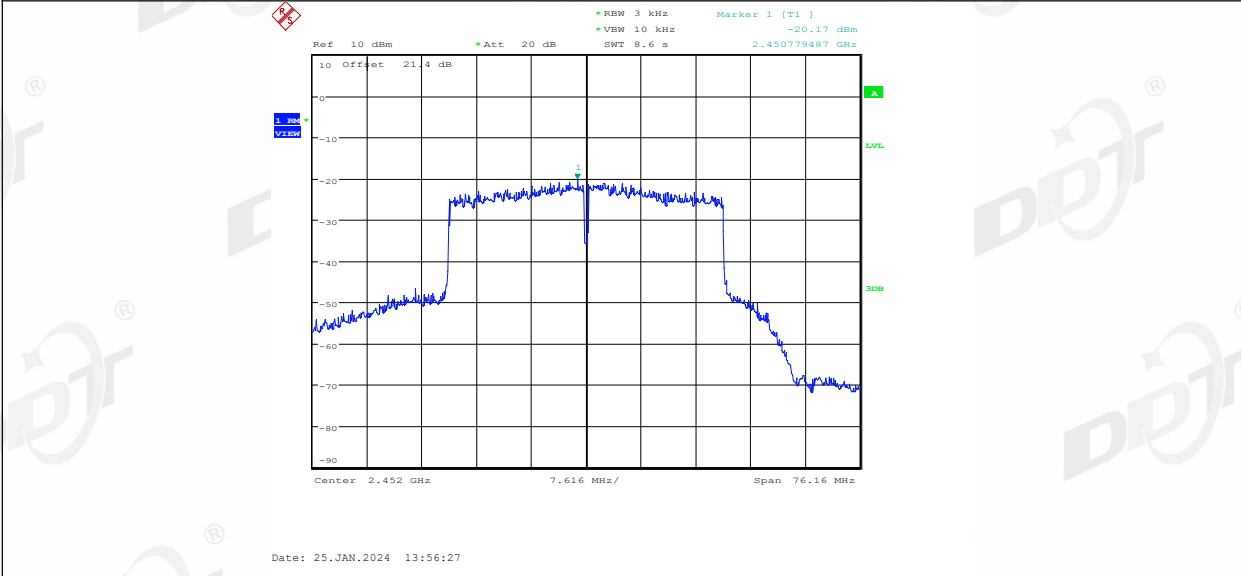
11AX40MIMO Ant2 2437



11AX40MIMO Ant1 2452

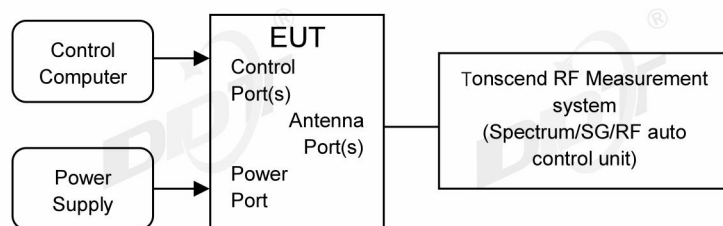


11AX40MIMO Ant2 2452



8. Band Edge Compliance (Conducted Method)

8.1. Block diagram of test setup



8.2. Limits

In any 100 kHz bandwidth outside the frequency bands 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.

8.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Establish a reference level by using the following procedure:

RBW: 100 kHz

VBW: 300 kHz

Span Encompass frequency range to be measured

Detector Mode: Peak

Sweep time: auto

Trace mode Max hold

(3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.

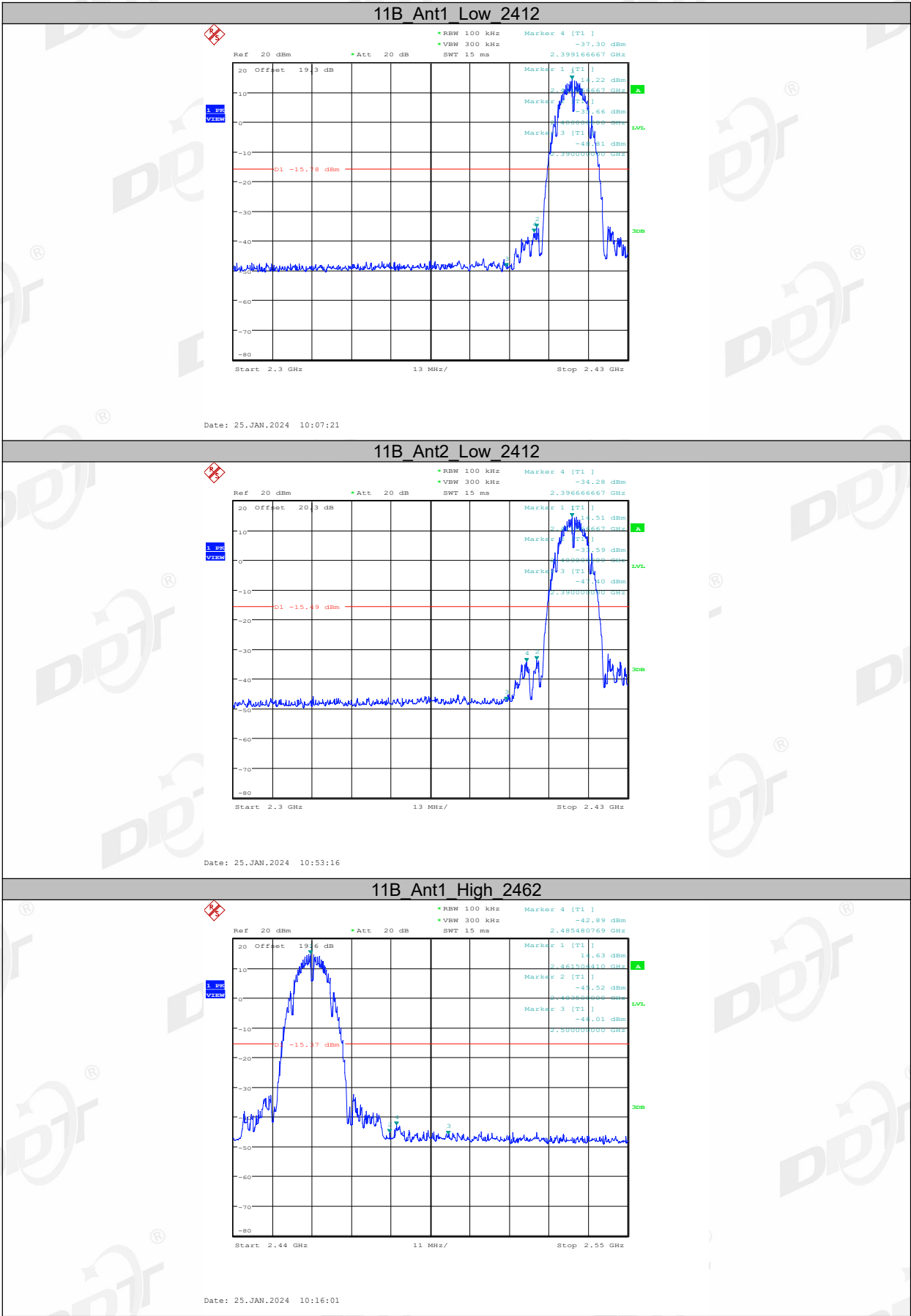
Then mark the maximum amplitude of all unwanted emissions outside of the authorized frequency band.

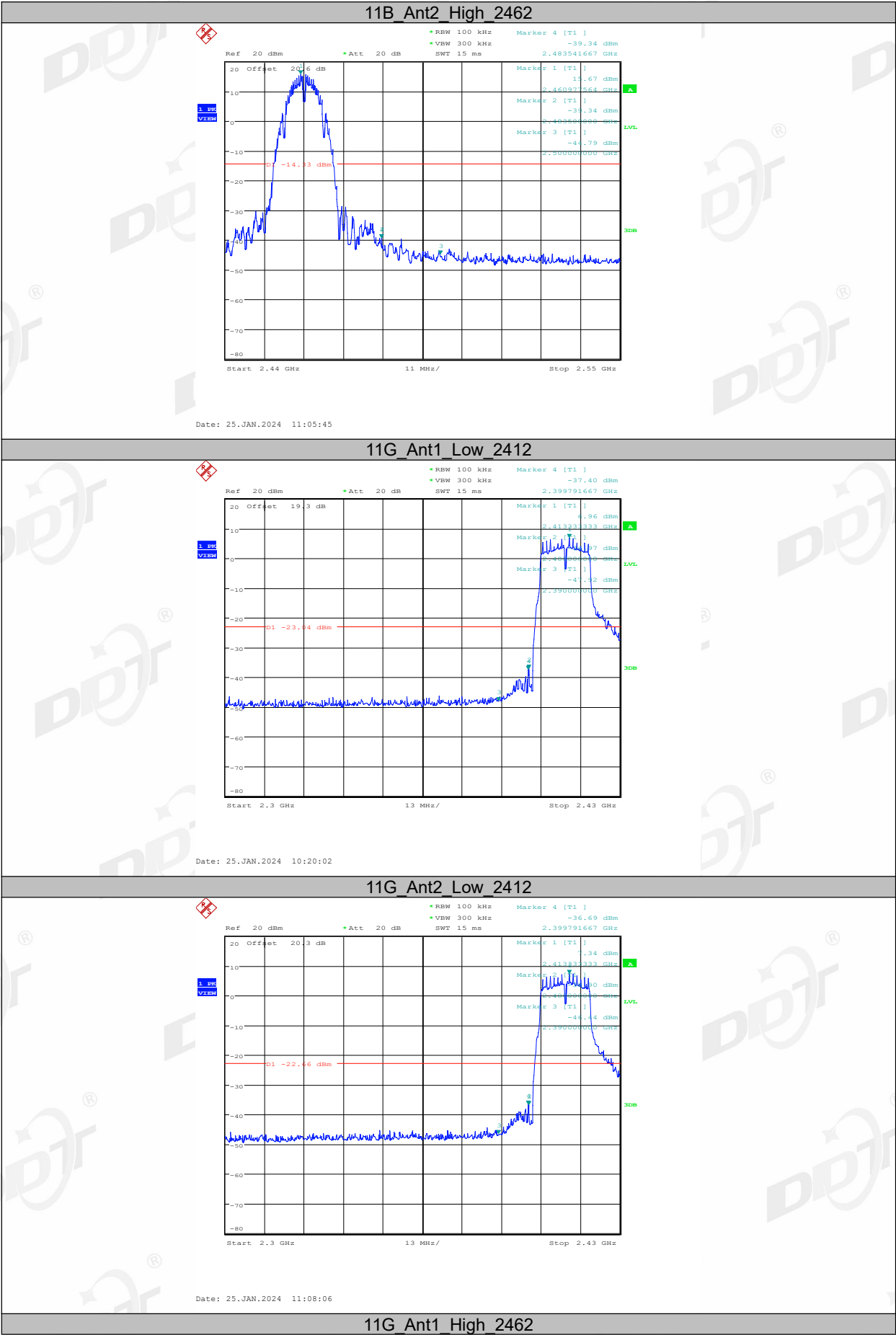
8.4. Test result

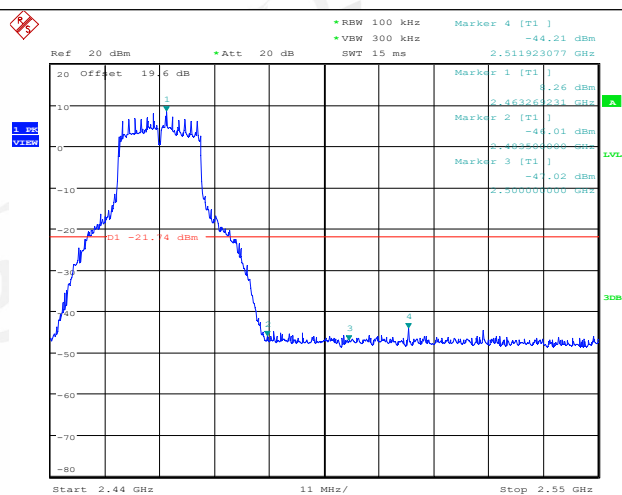
Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	23.6℃,64%RH	Test Date:	2024.01.29-2024.02.02
Test Power Supply:	AC230V/50Hz	EUT:	Mercku M6s Nano Mesh Wi-Fi Router
Sample Number:	S23111605-01	Model No.:	MBAA0

EUT Set Mode	CH or Frequency	Result(dBm)	EUT Set Mode	CH or Frequency	Result (dBm)
11b	CH1	Pass	11g	CH1	Pass
	CH11	Pass		CH11	Pass
11n HT 20	CH1	Pass	11n HT 40	CH3	Pass
	CH11	Pass		CH9	Pass
11ax HE 20	CH1	Pass	11ax HE 40	CH3	Pass
	CH11	Pass		CH9	Pass
11ax HE 20	CH1	Pass	11ax HE 40	CH3	Pass
	CH11	Pass		CH9	Pass

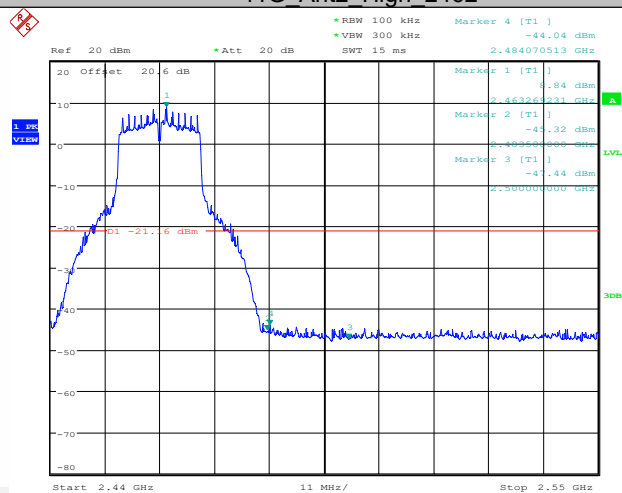
8.5. Test graphs



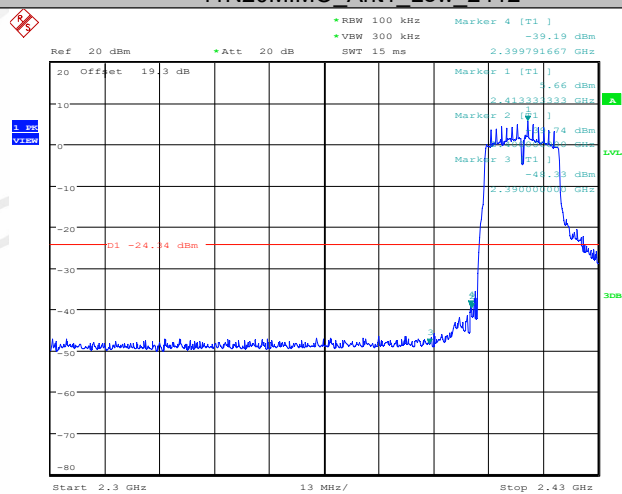




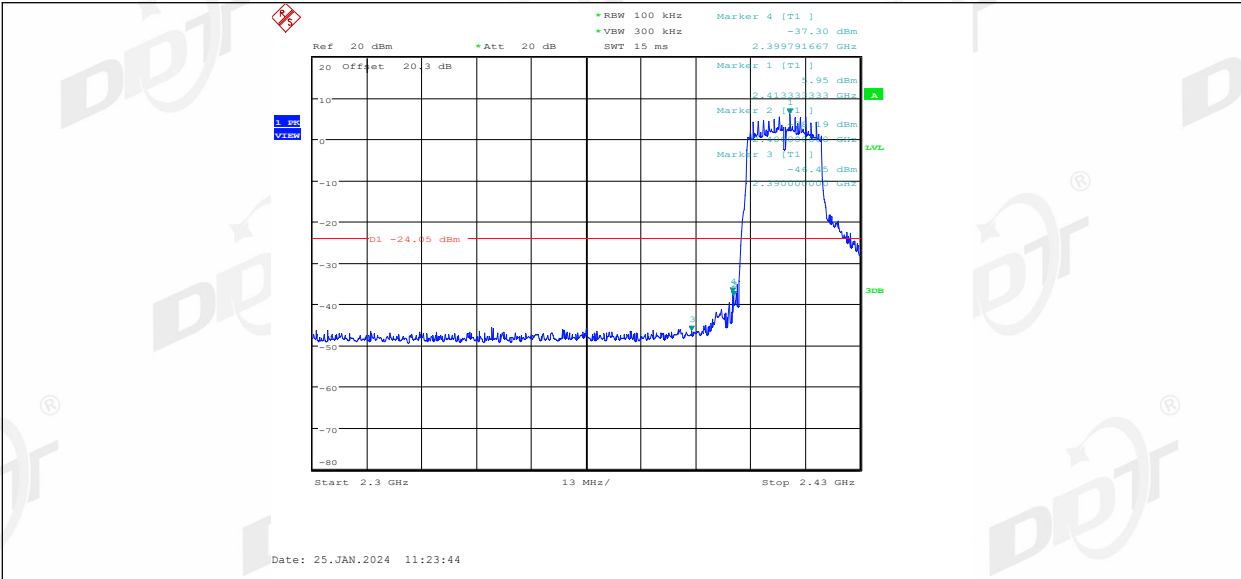
11G Ant2_High_2462



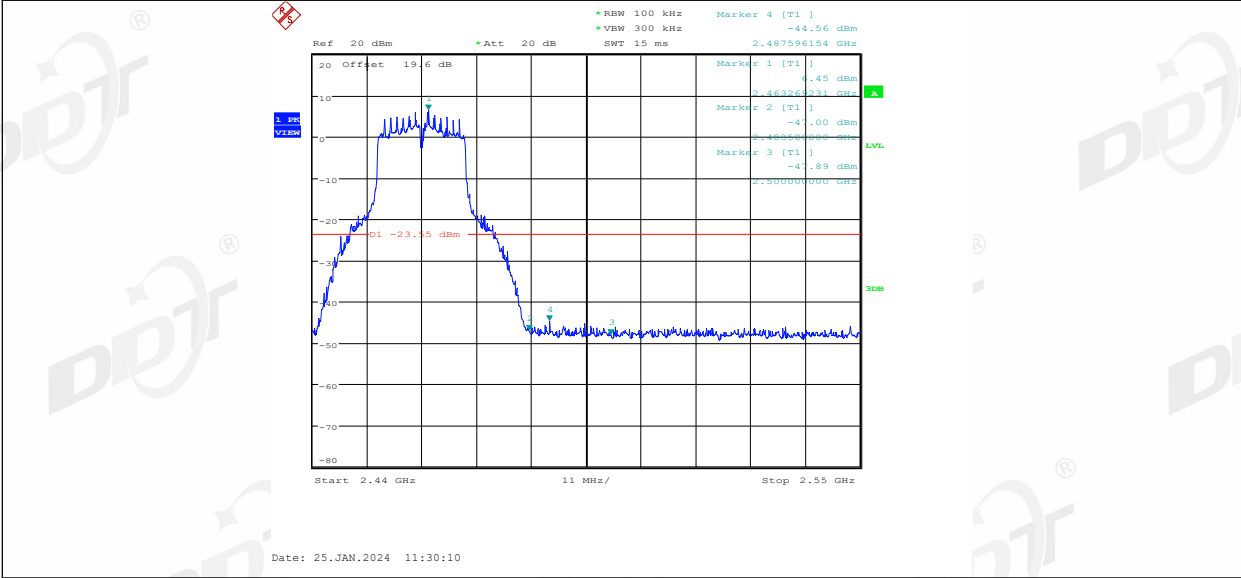
11N20MIMO_Ant1_Low_2412



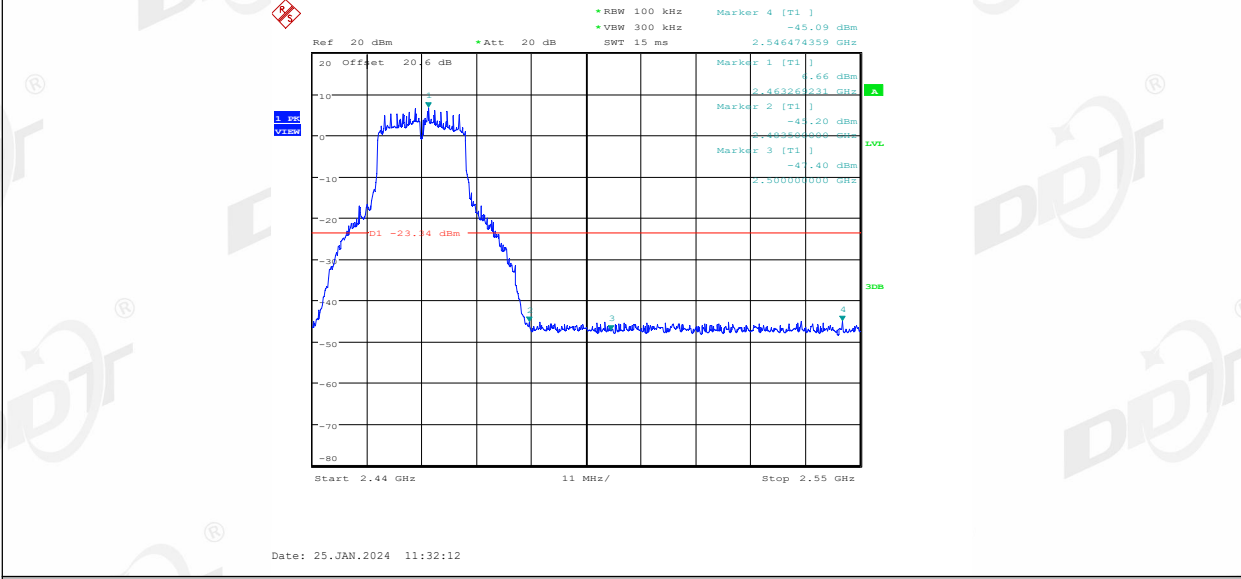
11N20MIMO_Ant2_Low_2412



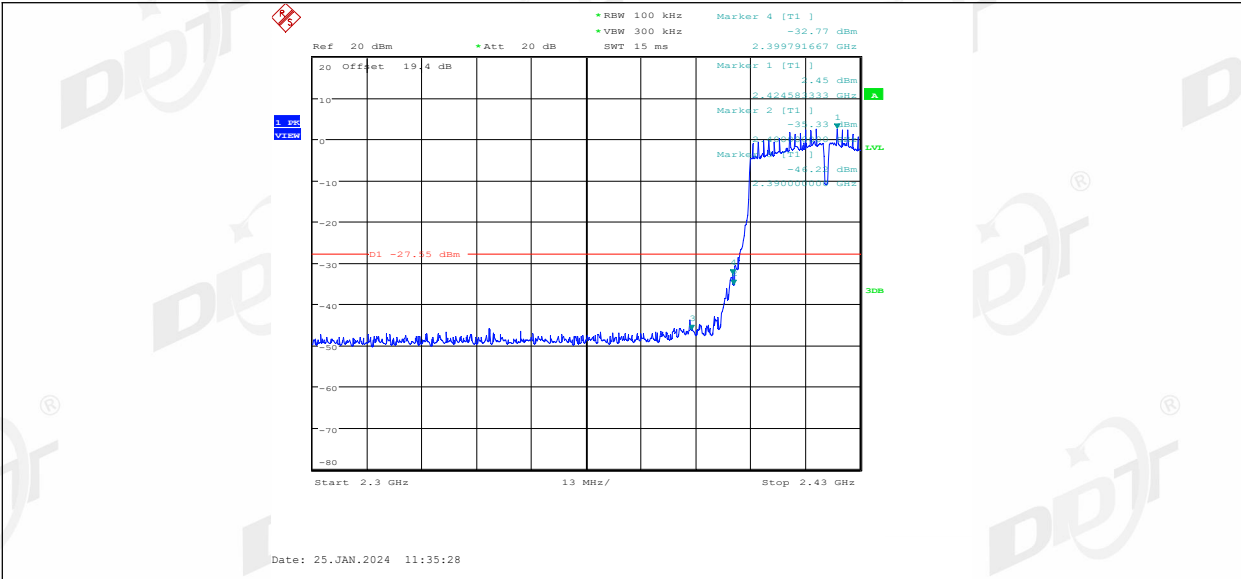
11N20MIMO Ant1_High_2462



11N20MIMO Ant2_High_2462



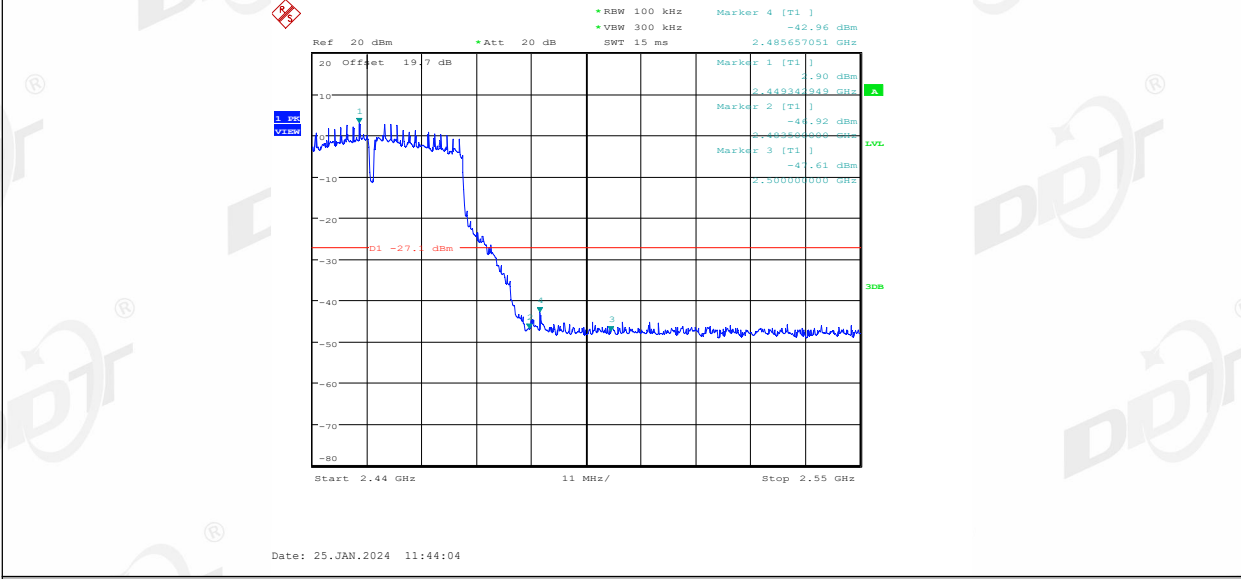
11N40MIMO Ant1_Low_2422



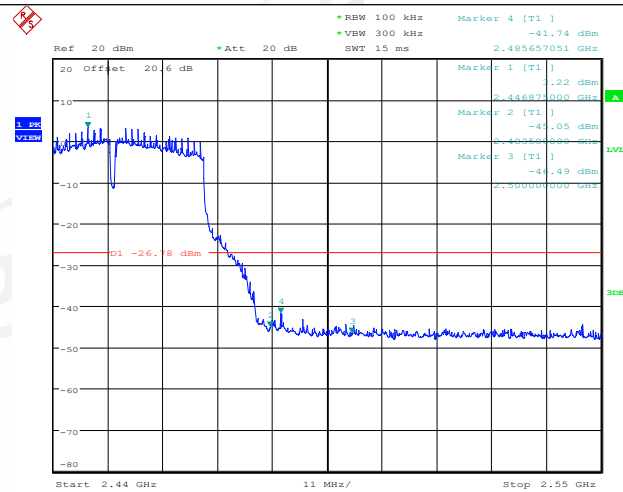
11N40MIMO_Ant2_Low_2422



11N40MIMO_Ant1_High_2452

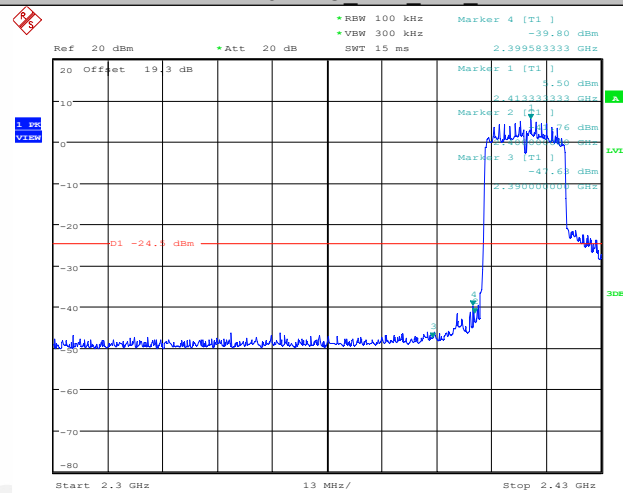


11N40MIMO_Ant2_High_2452



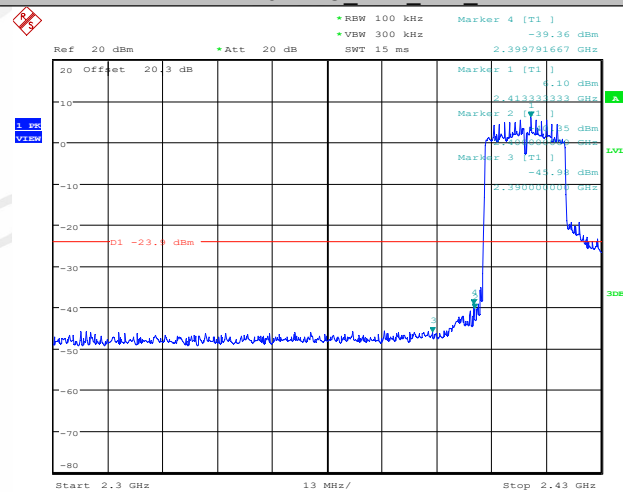
Date: 25.JAN.2024 11:46:06

11AX20MIMO_Ant1_Low_2412



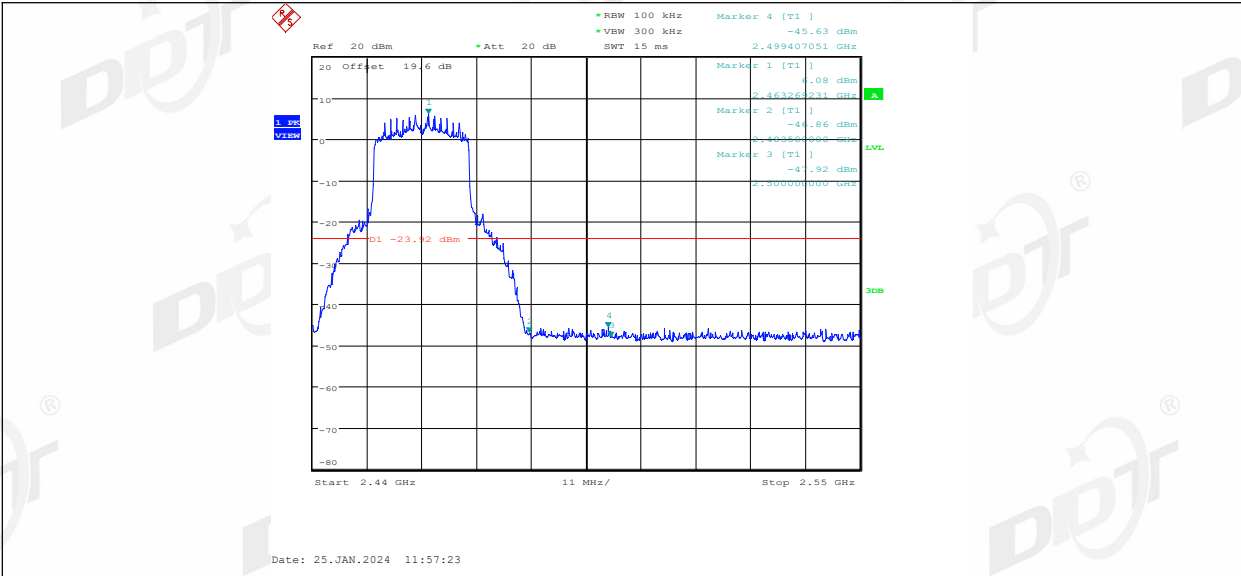
Date: 25.JAN.2024 11:49:14

11AX20MIMO_Ant2_Low_2412

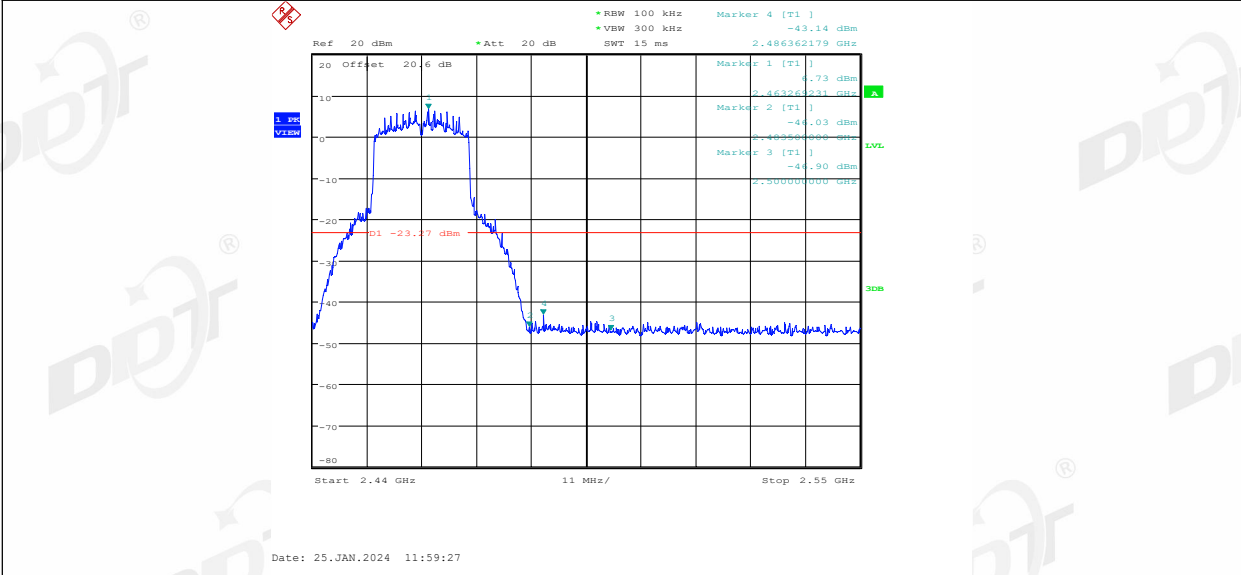


Date: 25.JAN.2024 11:51:17

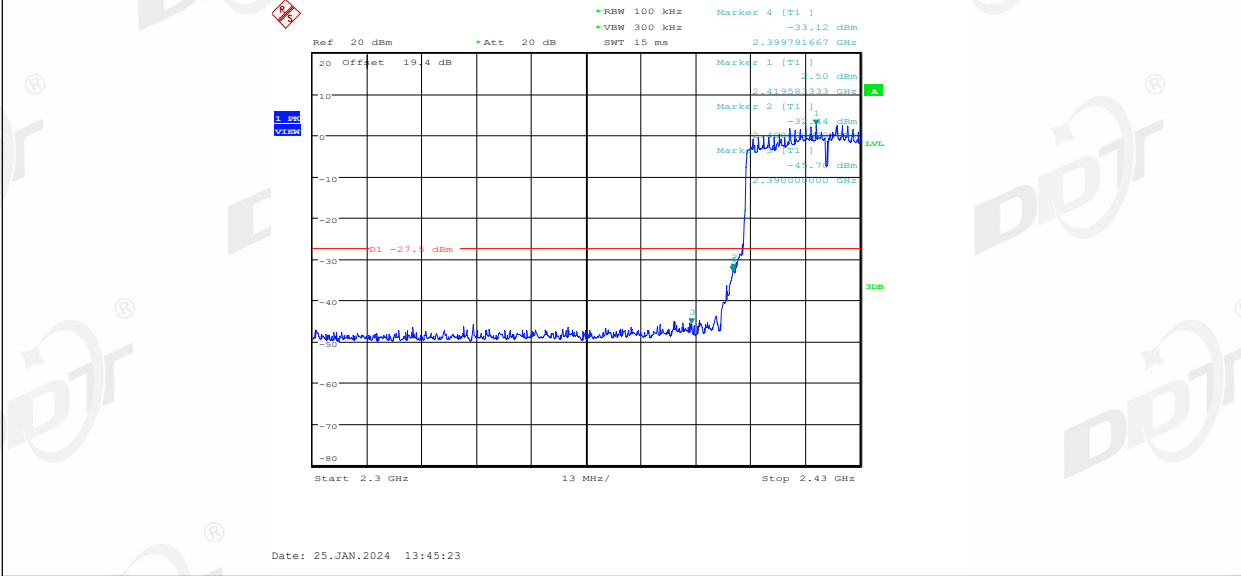
11AX20MIMO_Ant1_High_2462



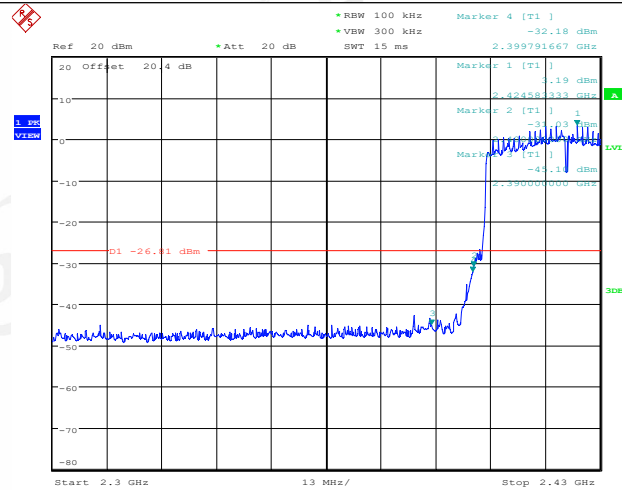
11AX20MIMO_Ant2_High_2462



11AX40MIMO_Ant1_Low_2422

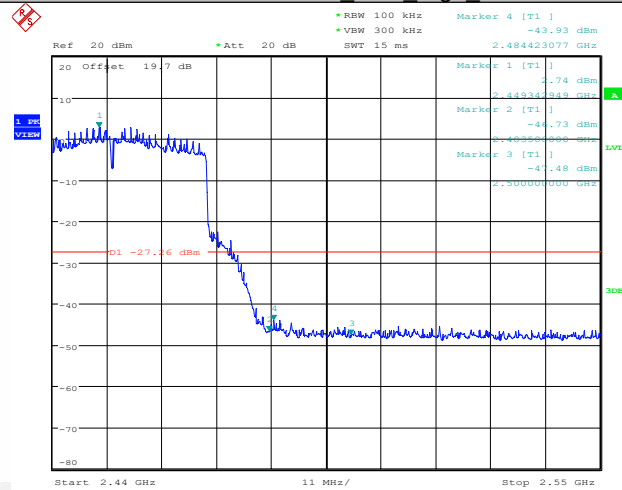


11AX40MIMO_Ant2_Low_2422



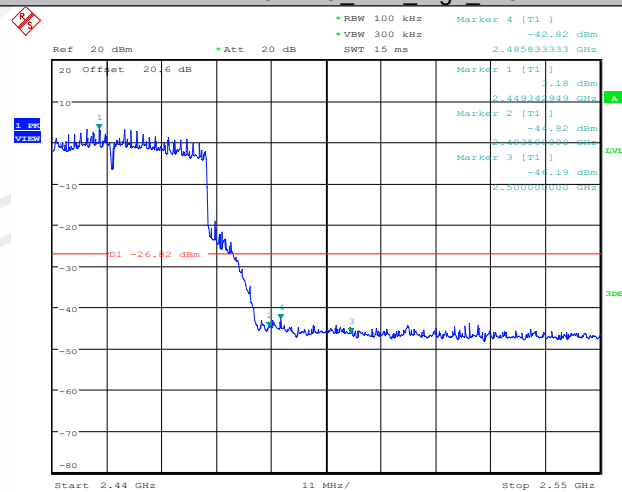
Date: 25.JAN.2024 13:47:25

11AX40MIMO Ant1 High 2452



Date: 25.JAN.2024 13:54:42

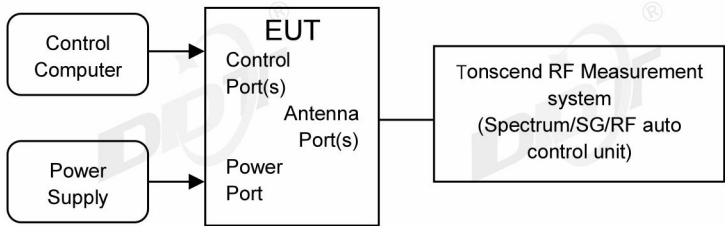
11AX40MIMO Ant2 High 2452



Date: 25.JAN.2024 13:56:44

9. RF Conducted Spurious Emissions

9.1. Block diagram of test setup



9.2. Limits

In any 100 kHz bandwidth outside the frequency bands 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.

9.3. Test procedure

- Connect EUT's antenna output to spectrum analyzer by RF cable.
- Establish a reference level by using the following procedure:

Center frequency	Test frequency
RBW:	100 kHz
VBW:	300 kHz
Span	Wide enough to capture the peak level of the in-band emission
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold
- Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.
- Set the spectrum analyzer as follows:

RBW:	100 kHz
VBW:	300 kHz
Span	Encompass frequency range to be measured
Number of measurement points	$\geq \text{Span} / \text{RBW}$
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

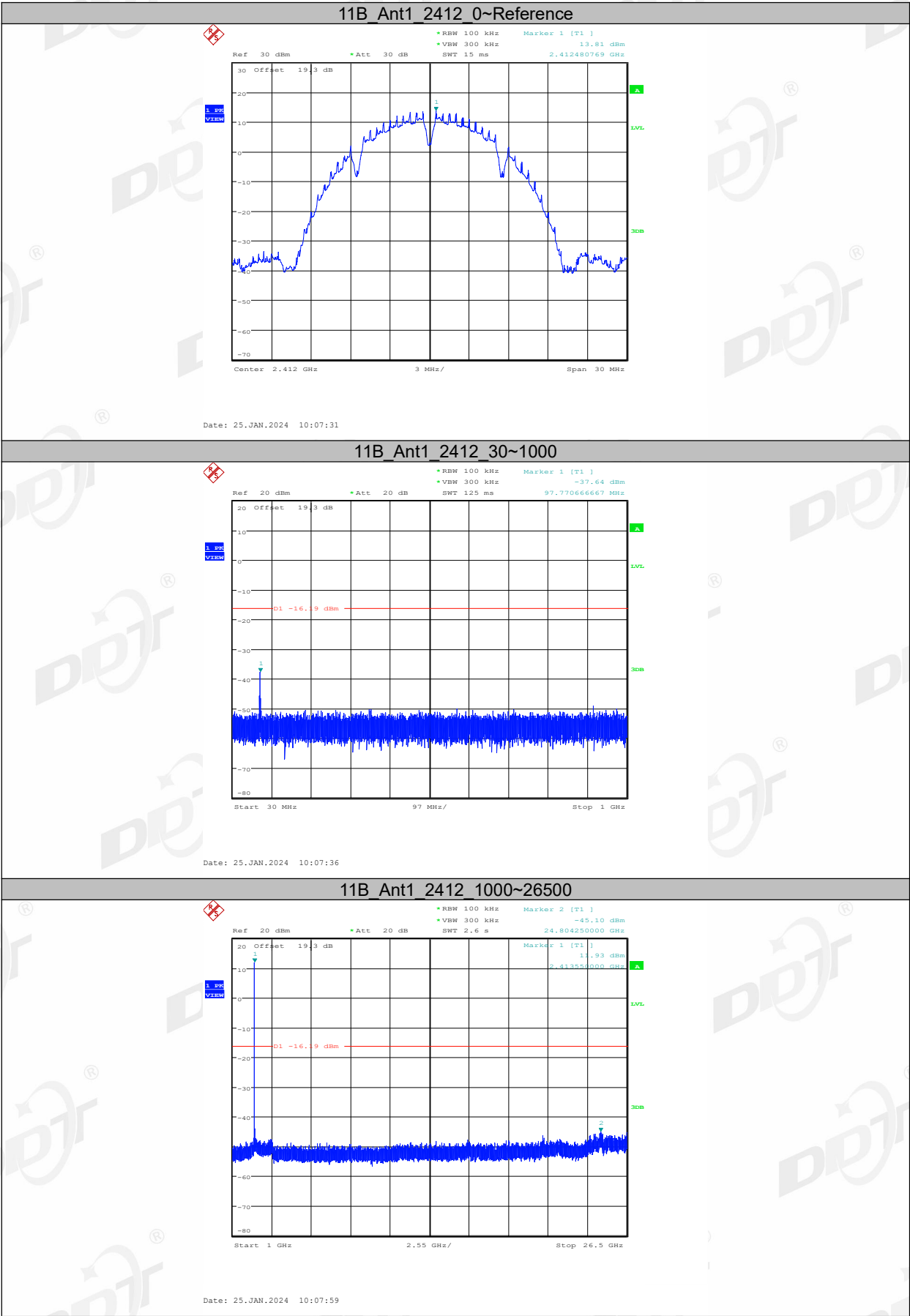
(5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

9.4. Test result

Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#		
Ambient Condition:	23.6℃,64%RH	Test Date:	2024.01.29-2024.02.02		
Test Power Supply:	AC230V/50Hz	EUT:	Mercku M6s Nano Mesh Wi-Fi Router		
Sample Number:	S23111605-01	Model No.:	MBAA0		

EUT Set Mode	CH or Frequency	Result(dBm)	EUT Set Mode	CH or Frequency	Result (dBm)
11b	CH1	Pass	11g	CH1	Pass
	CH11	Pass		CH11	Pass
11n HT 20	CH1	Pass	11n HT 40	CH3	Pass
	CH11	Pass		CH9	Pass
11ax HE 20	CH1	Pass	11ax HE 40	CH3	Pass
	CH11	Pass		CH9	Pass

9.5. Test graphs



11B_Ant1_2412_1000~26500

Ref 20 dBm

Offset 19.3 dB

Att 20 dB

RBW 100 kHz

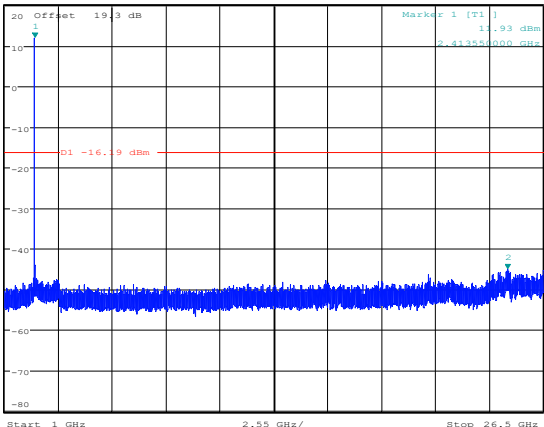
VBW 300 kHz

SWT 2.6 s

Marker 2 [T1]

-45.10 dBm

24.804250000 GHz

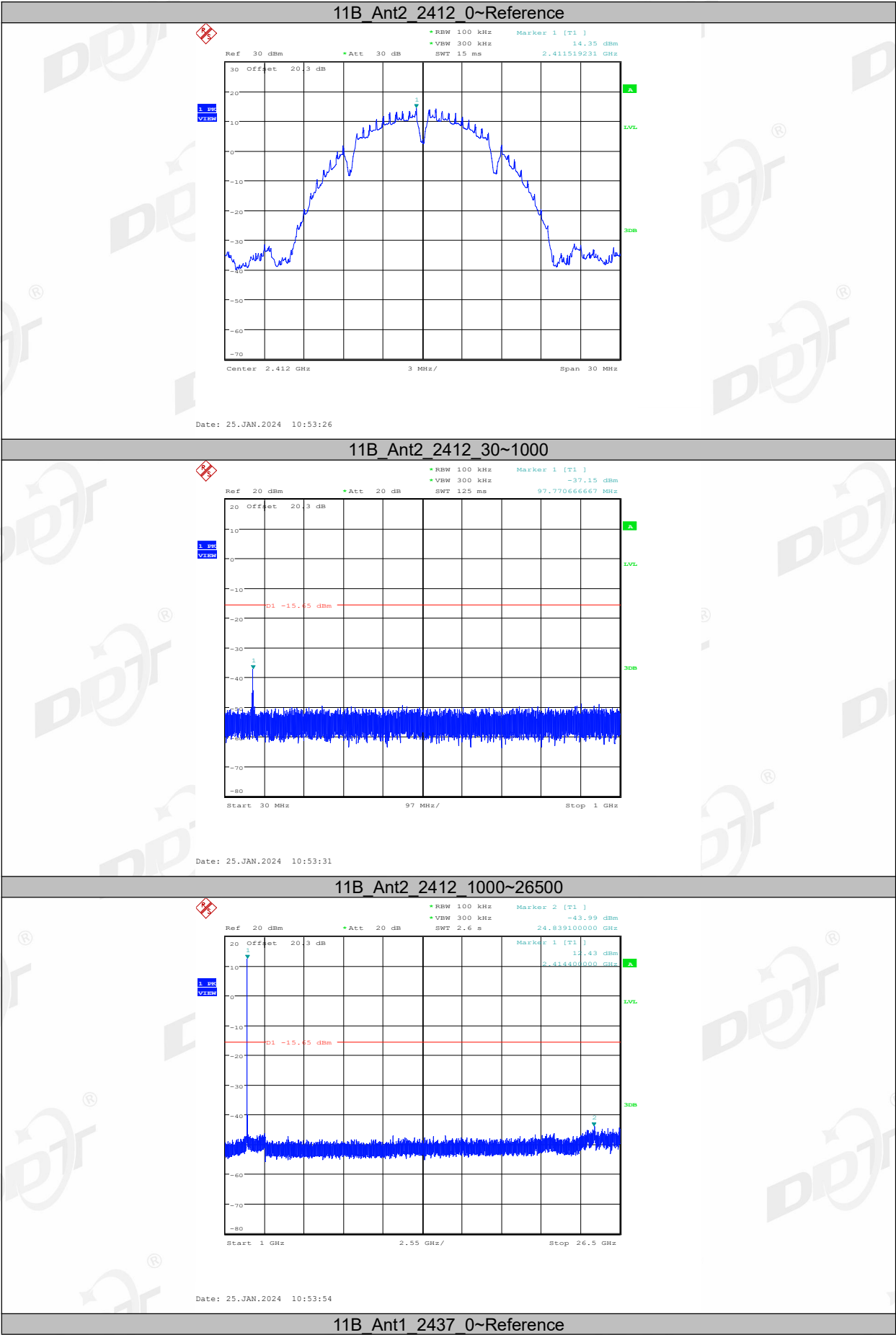


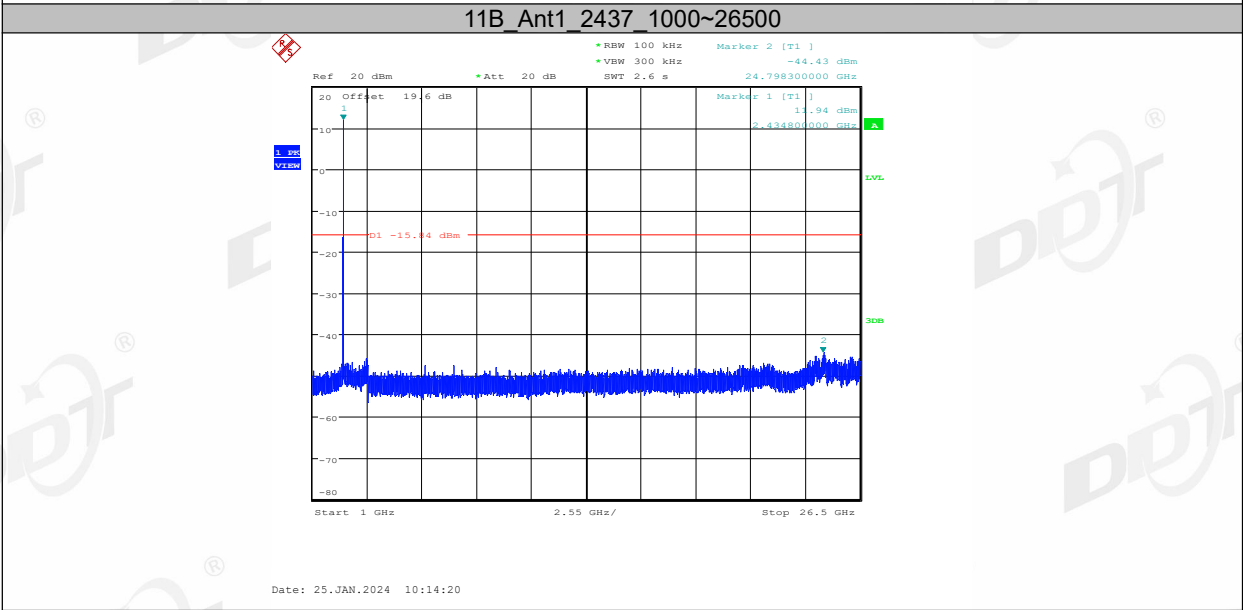
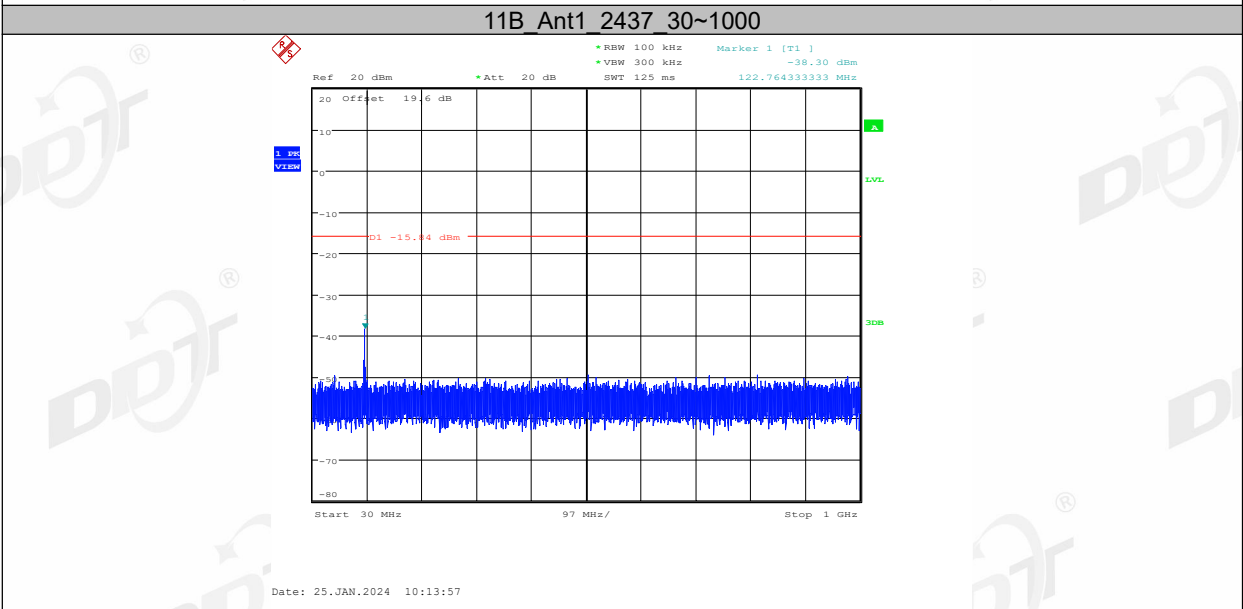
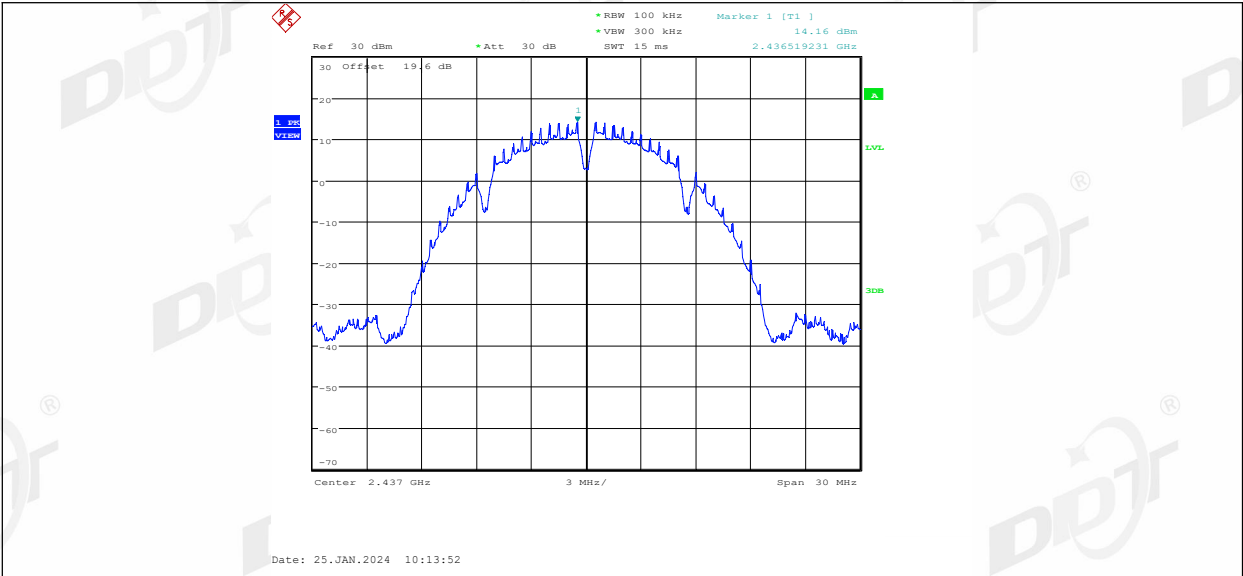
Start 1 GHz

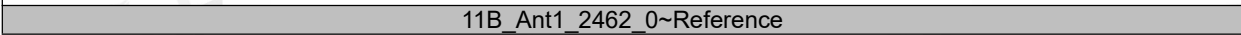
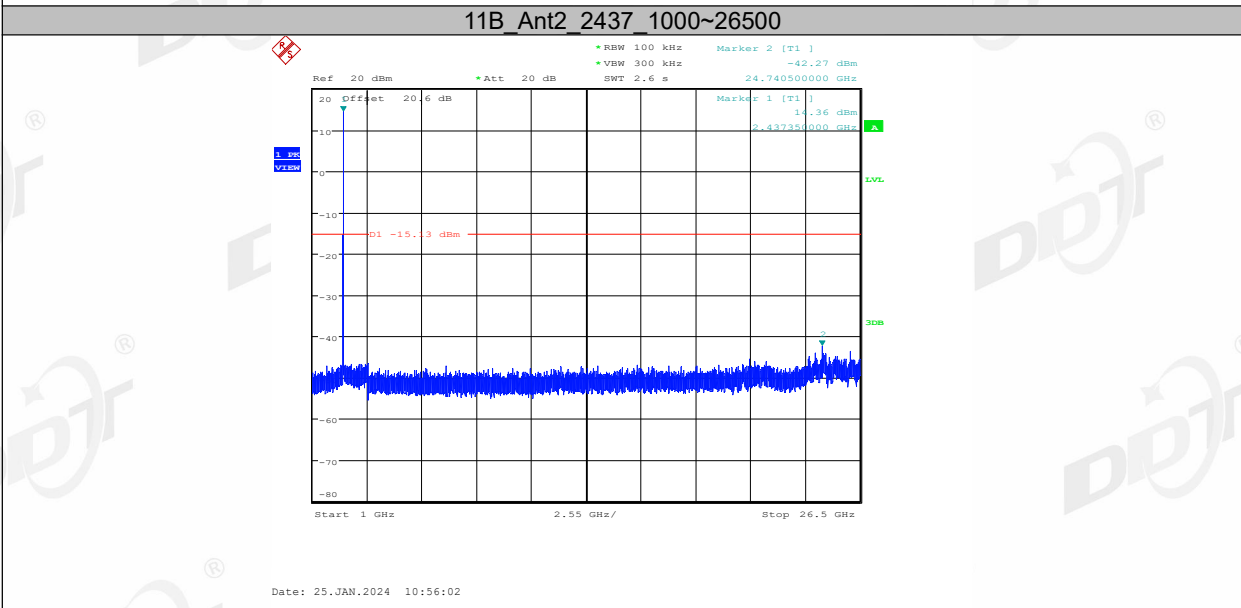
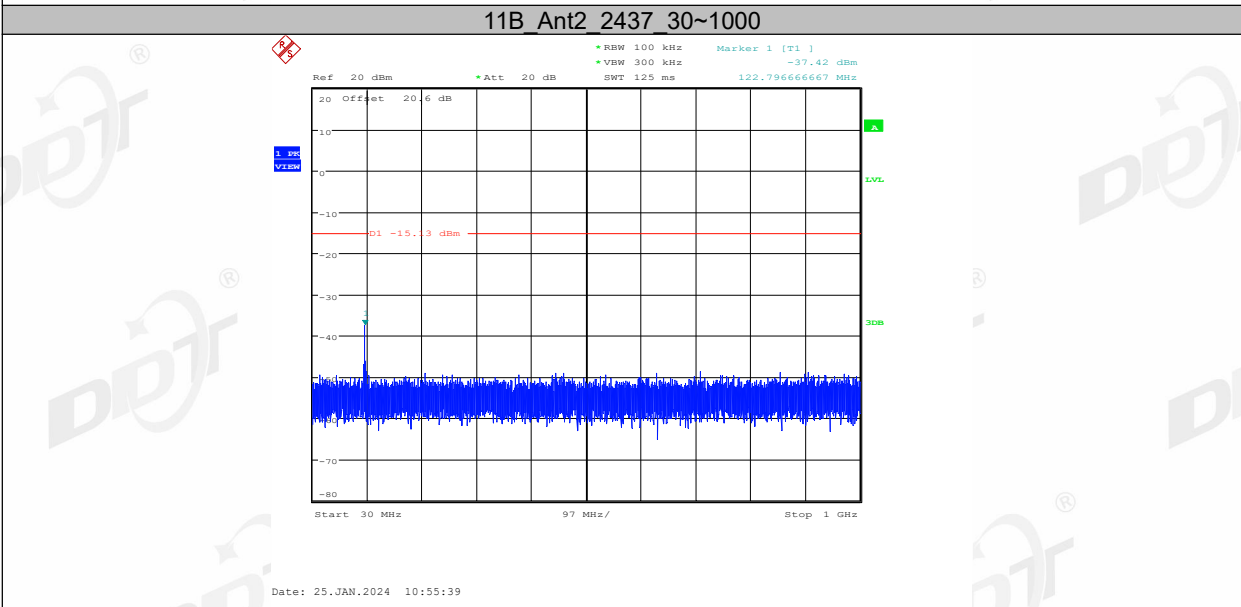
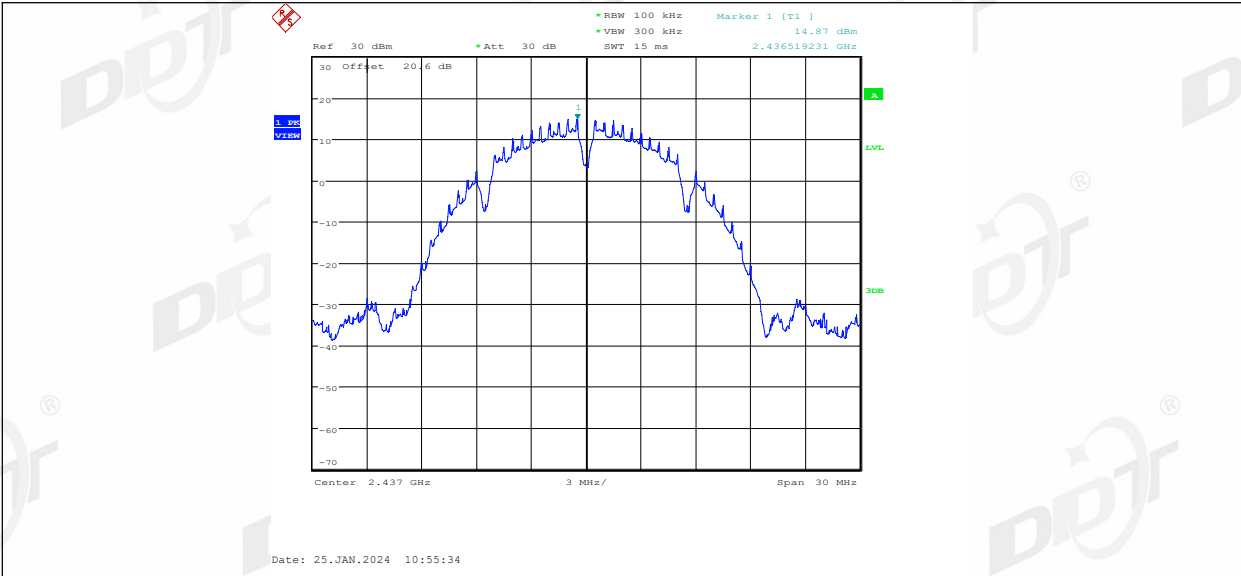
2.55 GHz/

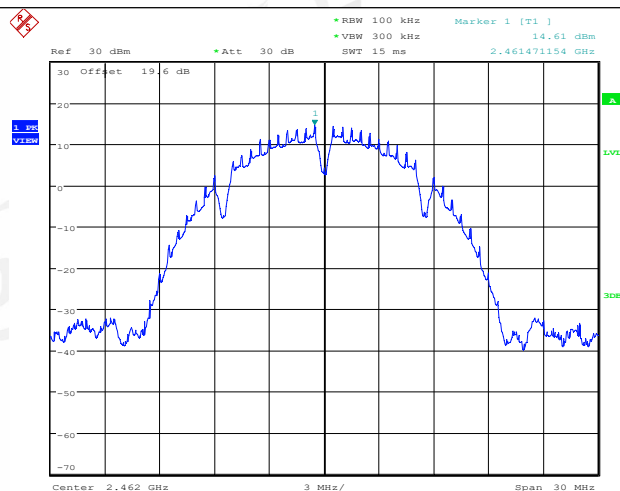
Stop 26.5 GHz

Date: 25.JAN.2024 10:07:59



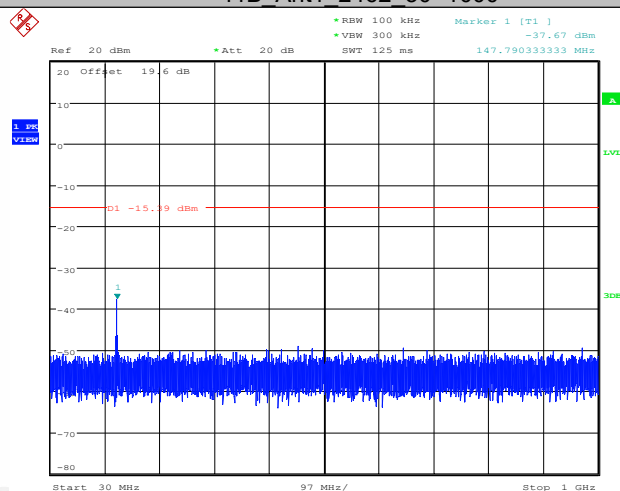






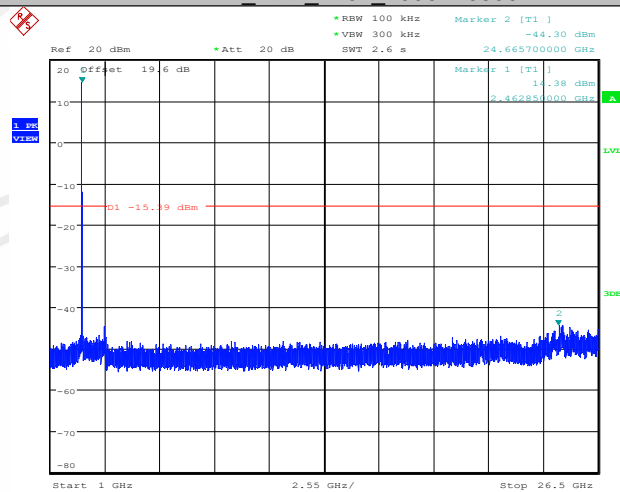
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11B	Ant1	2462	30~1000
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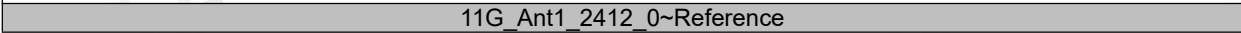
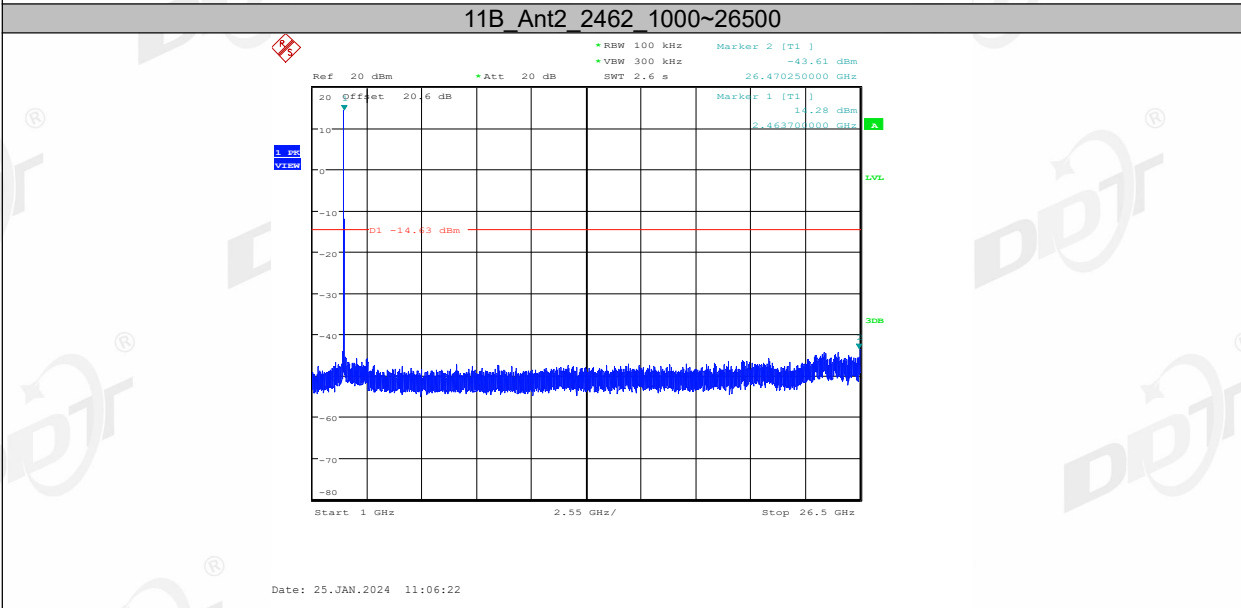
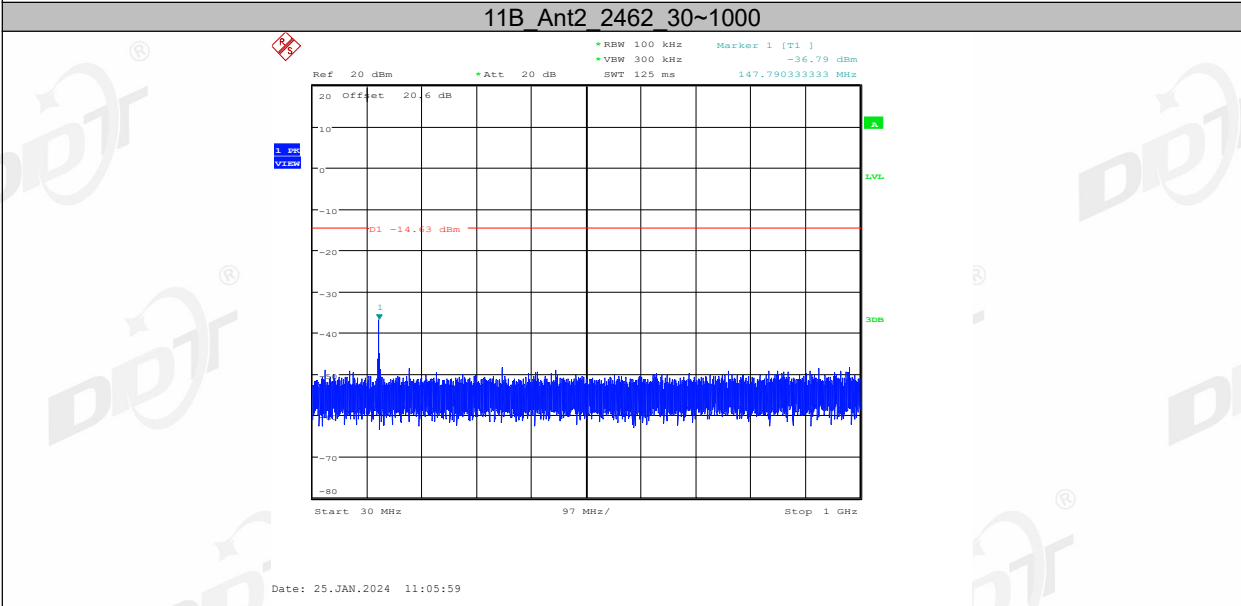
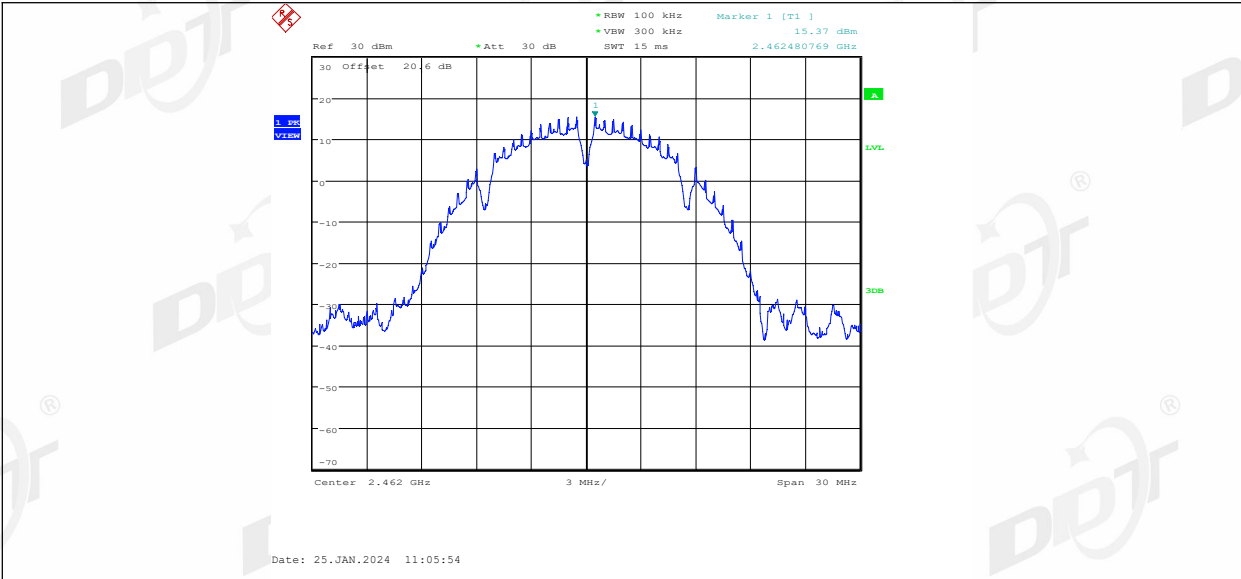
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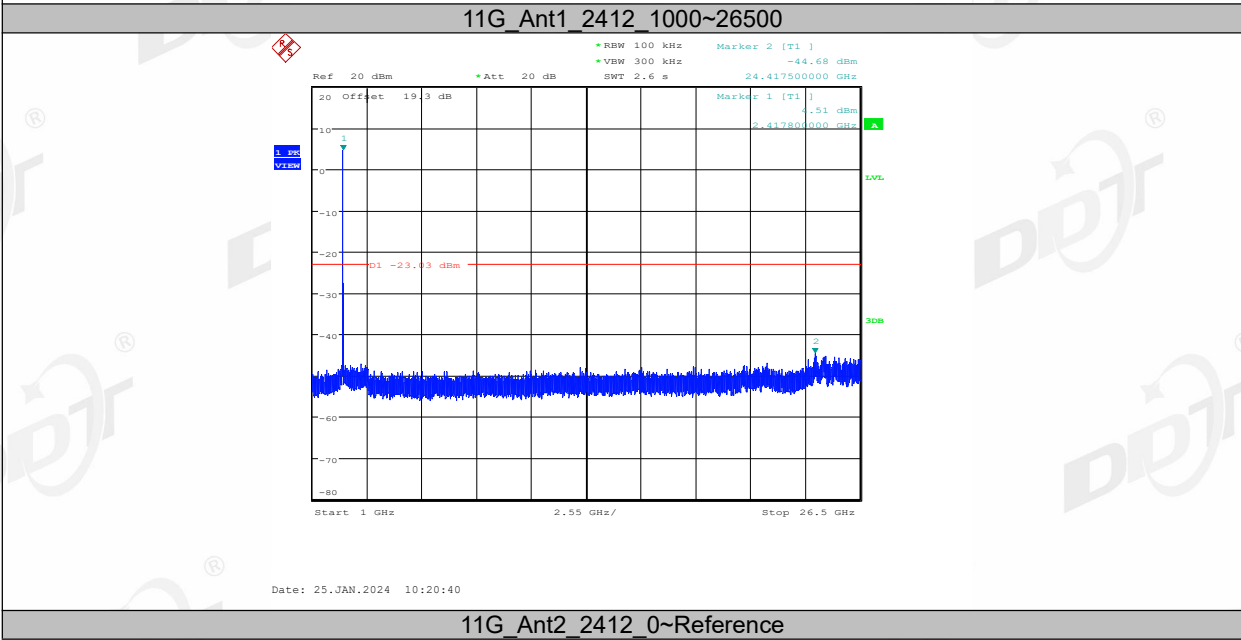
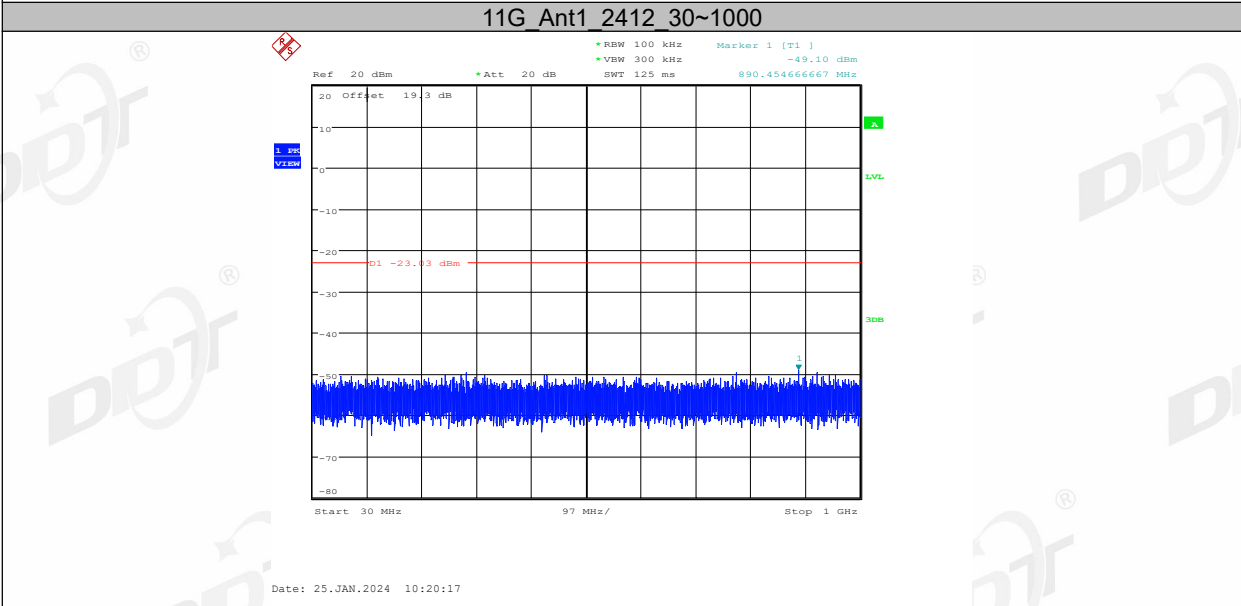
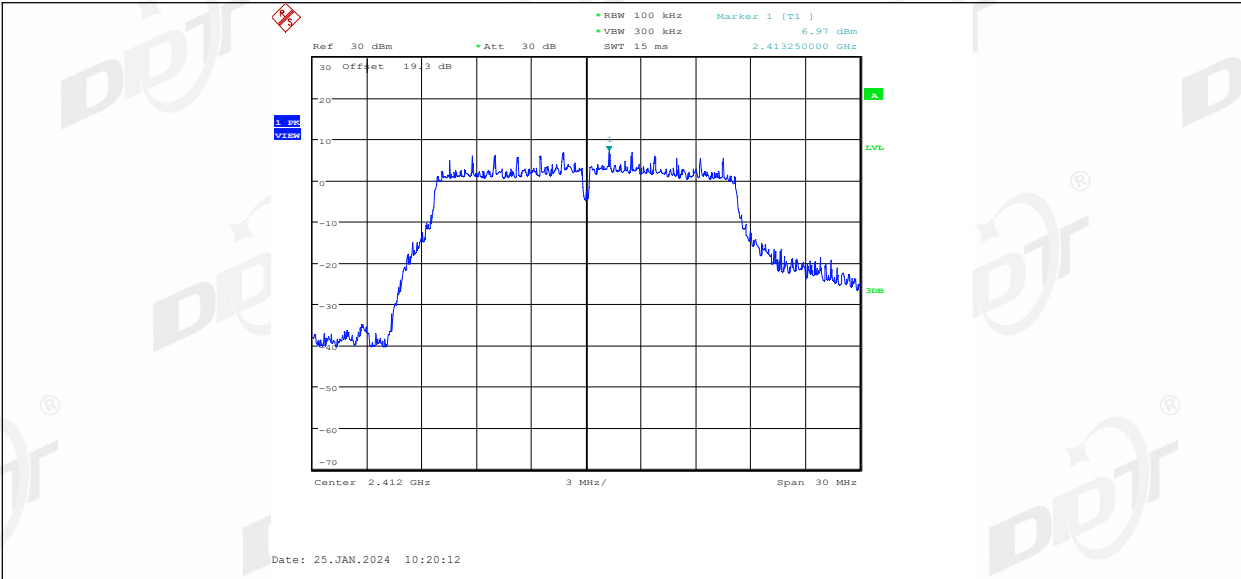
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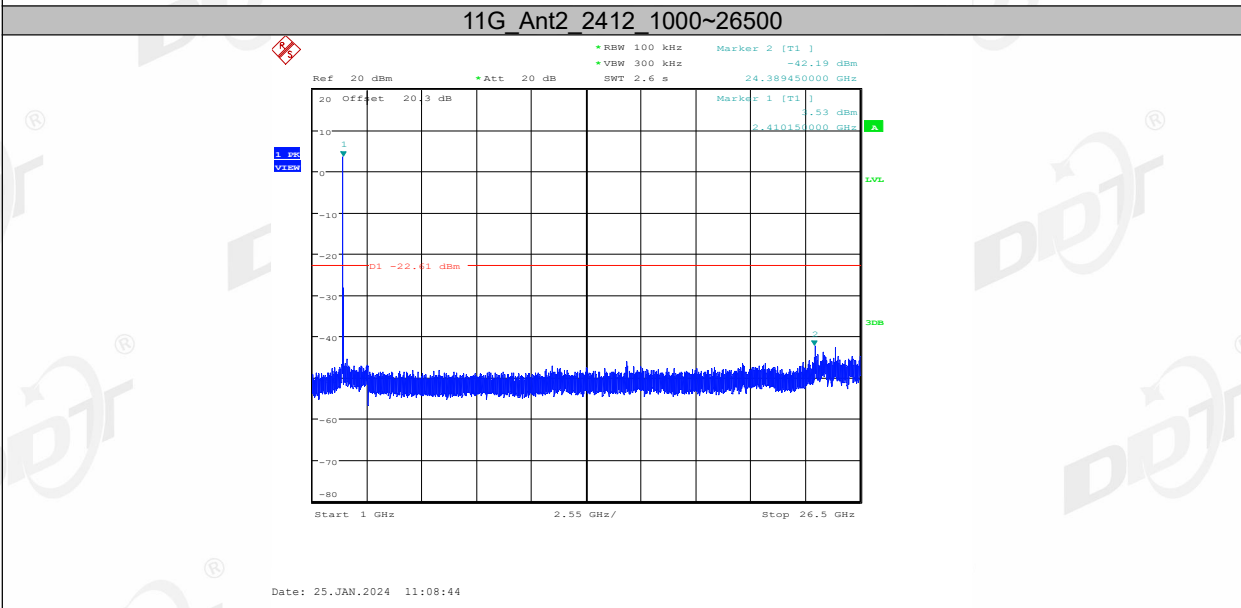
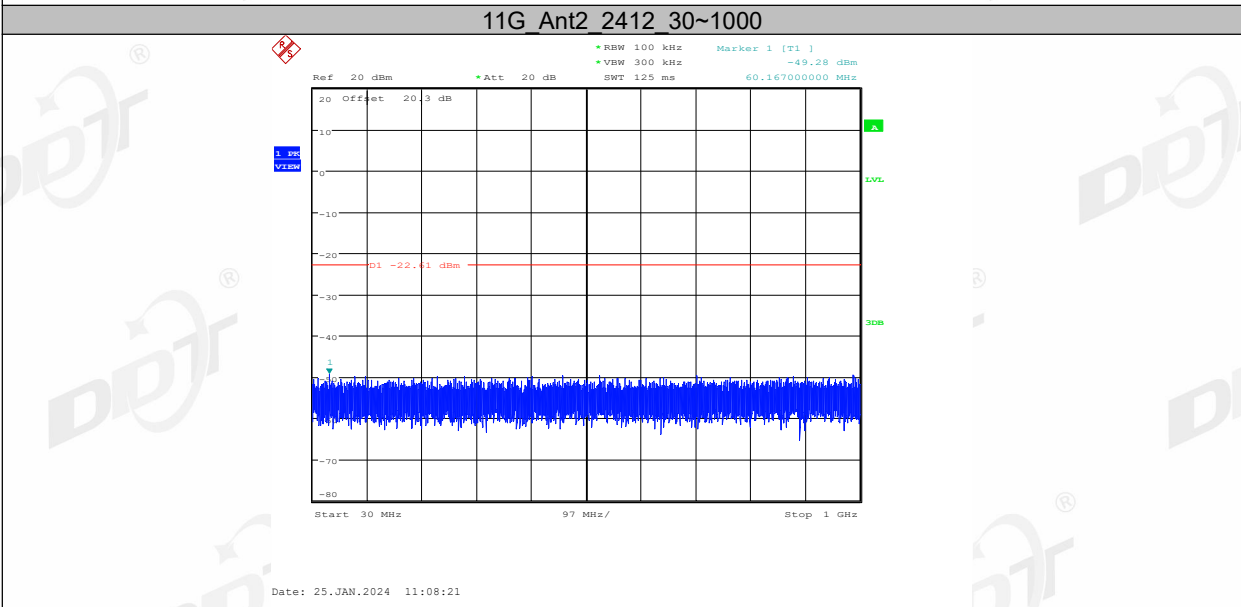
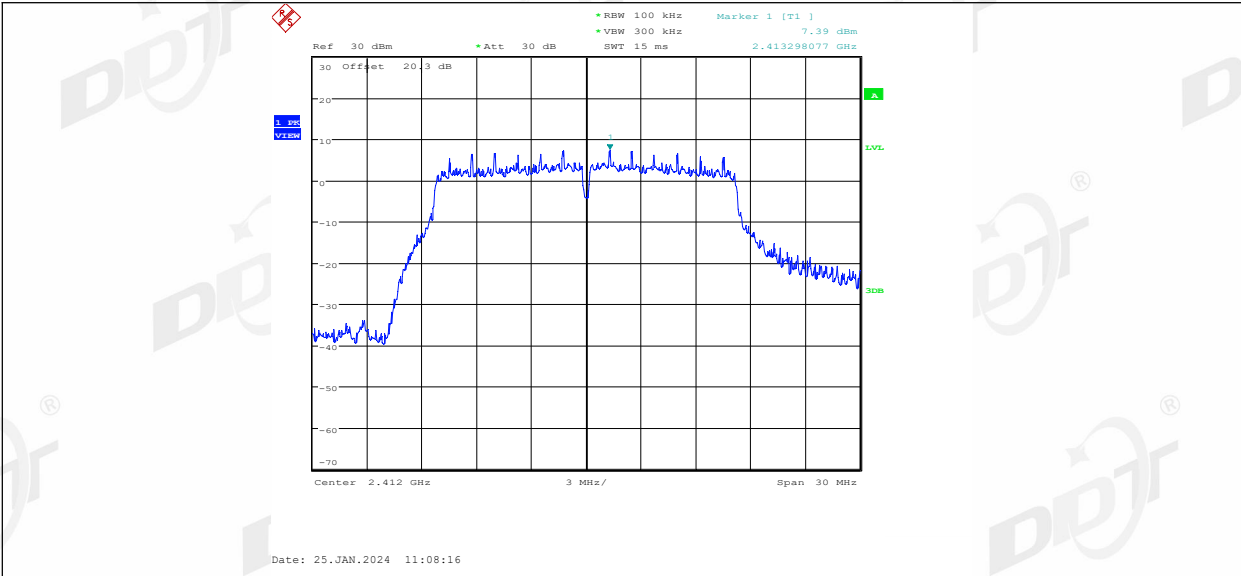
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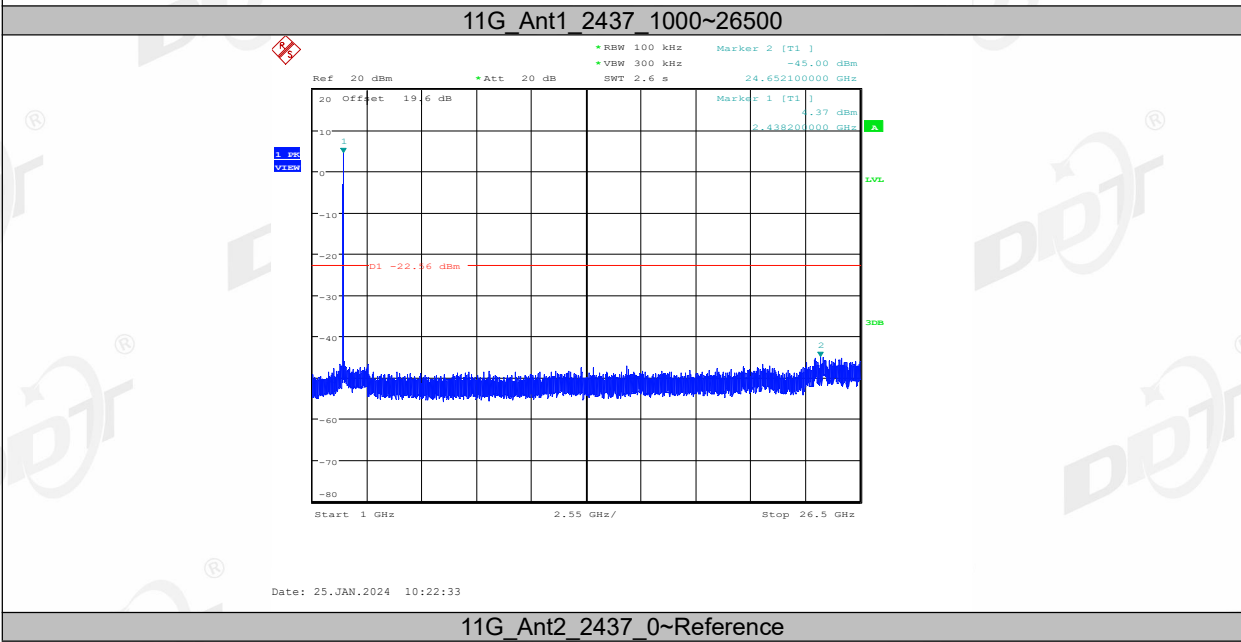
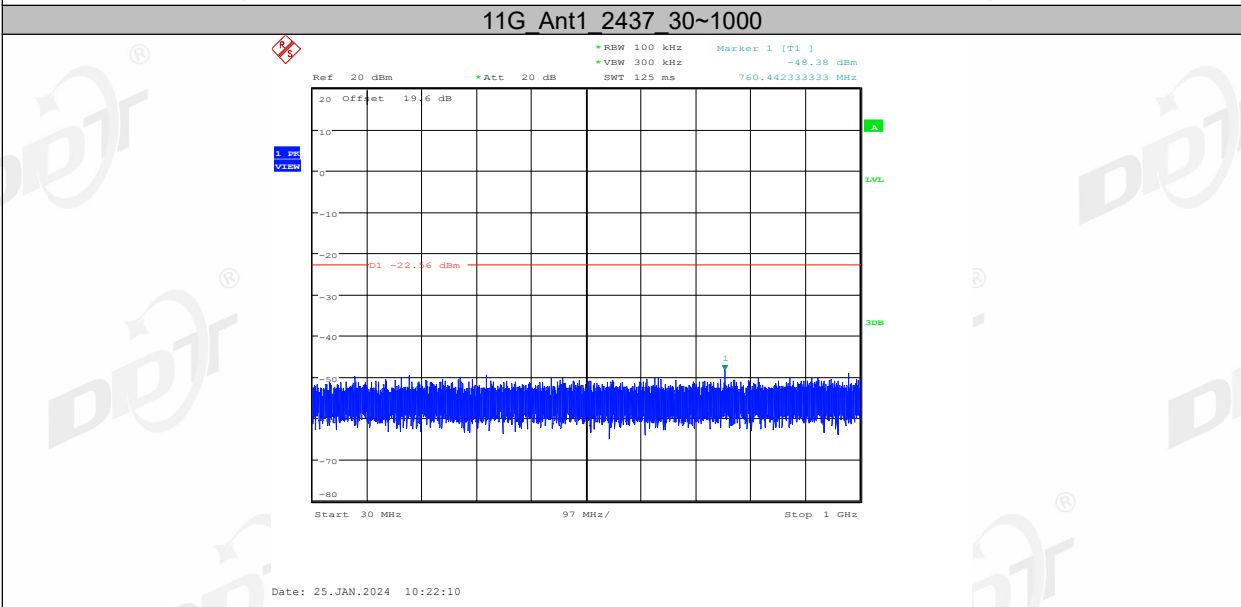
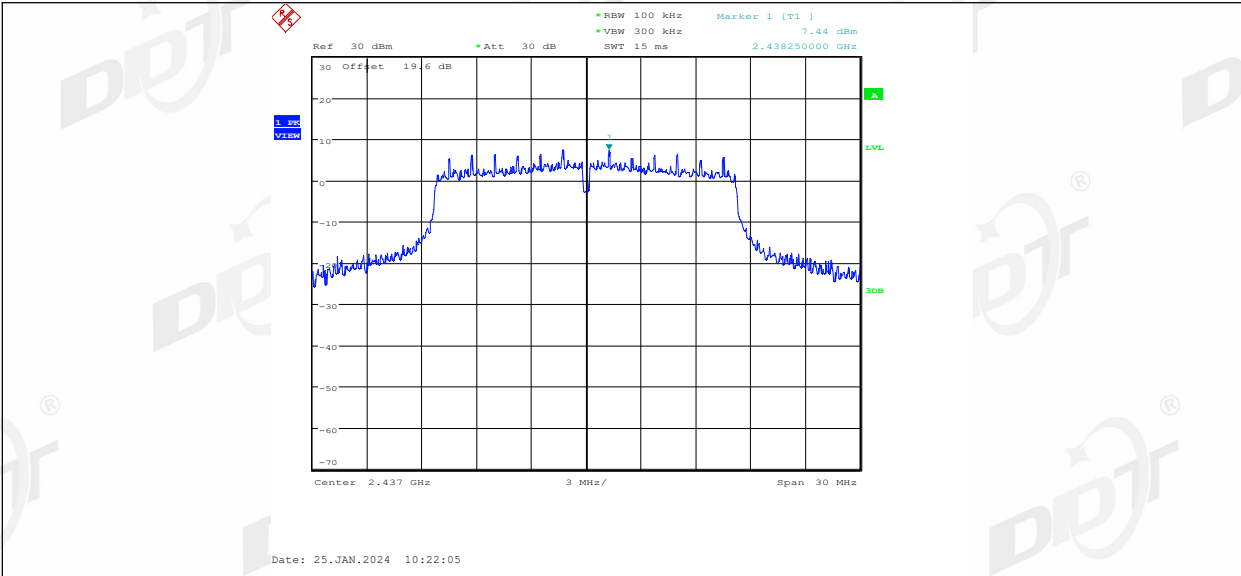
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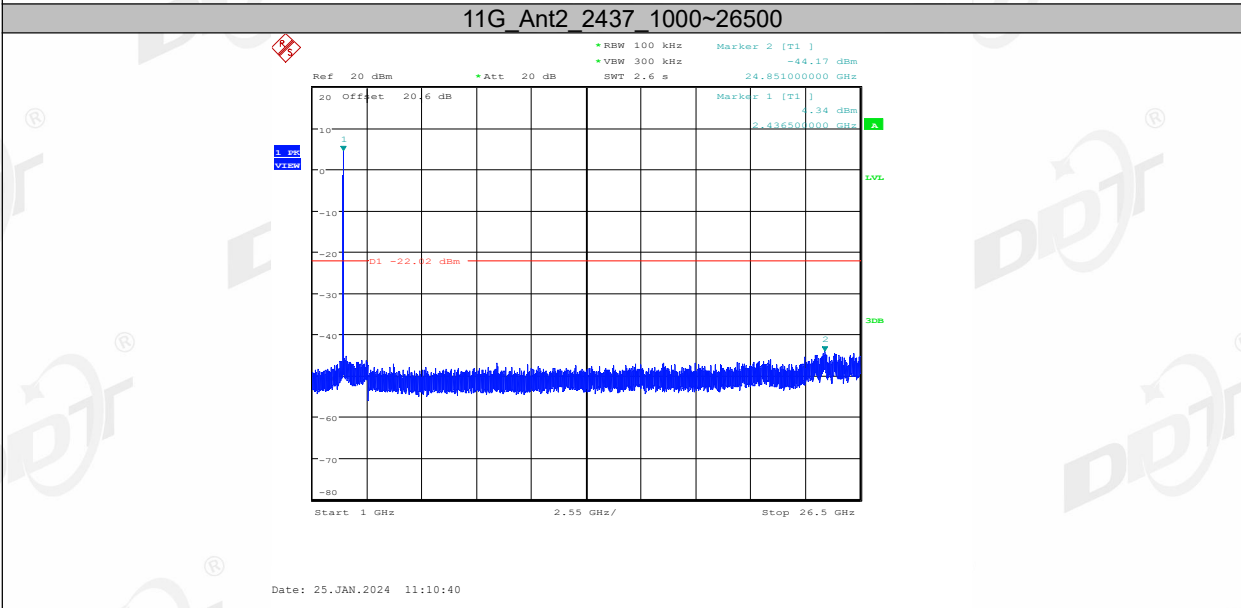
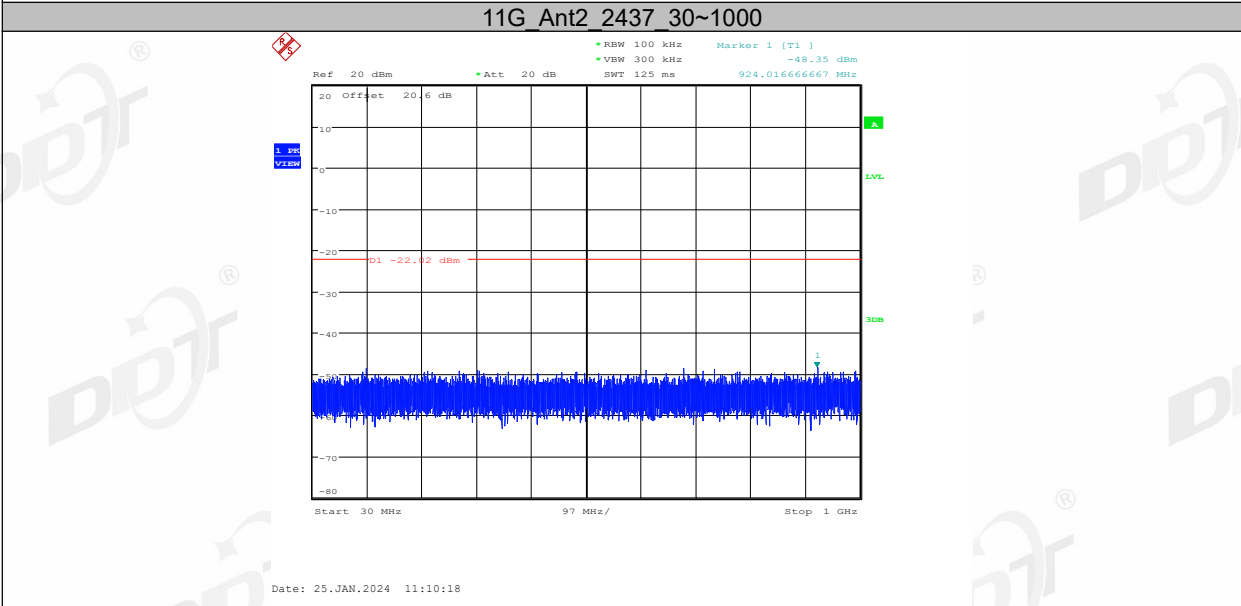
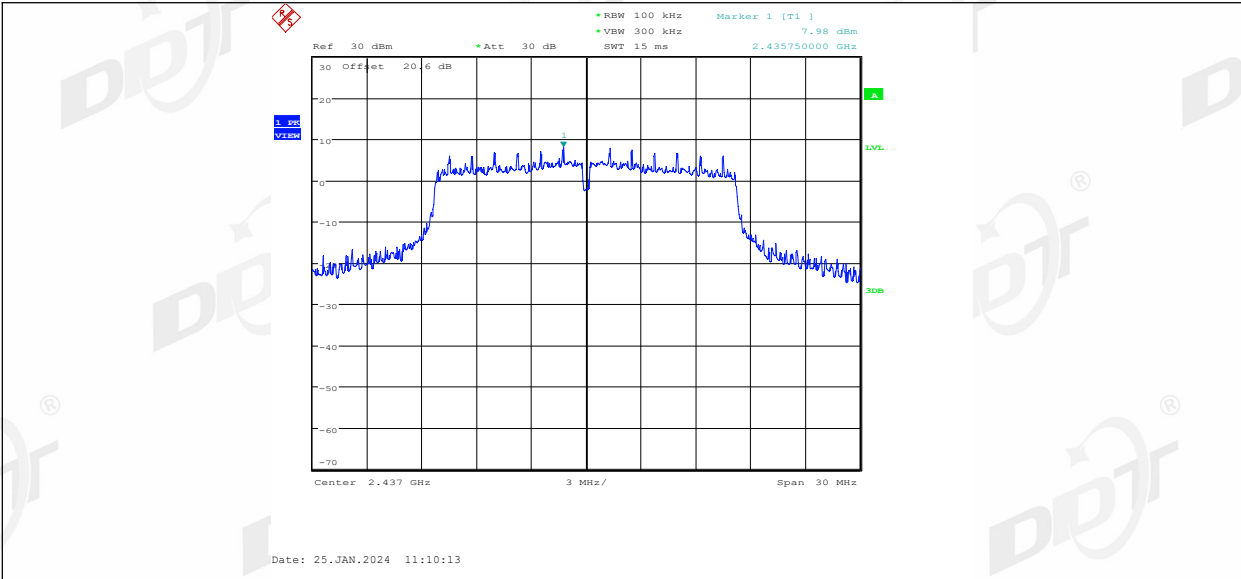




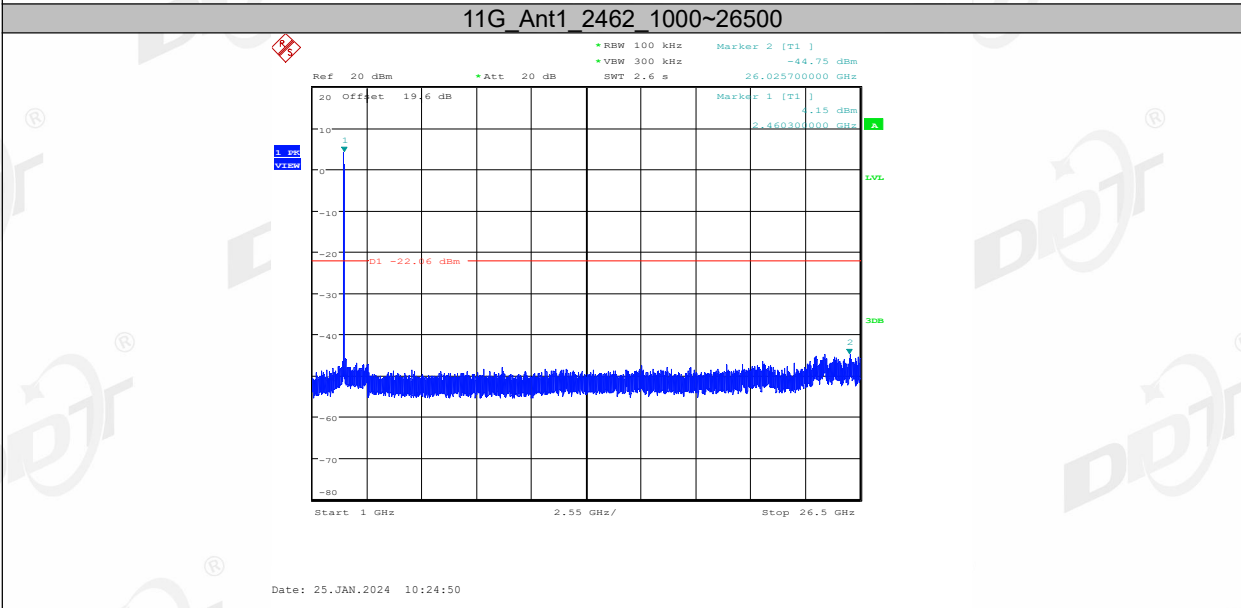
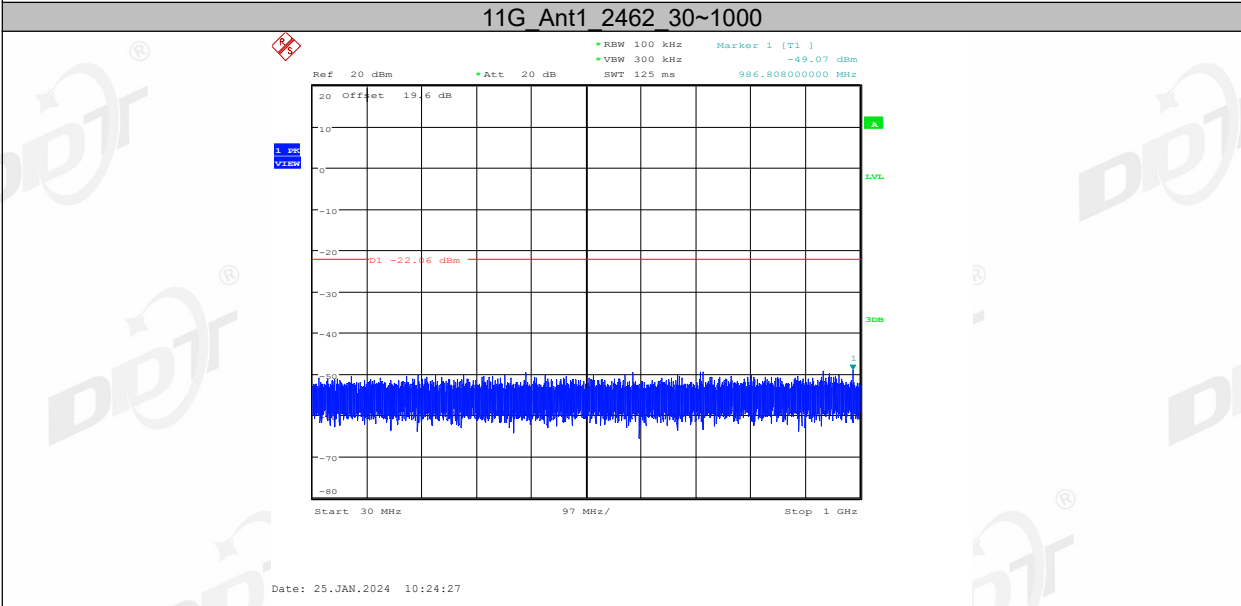
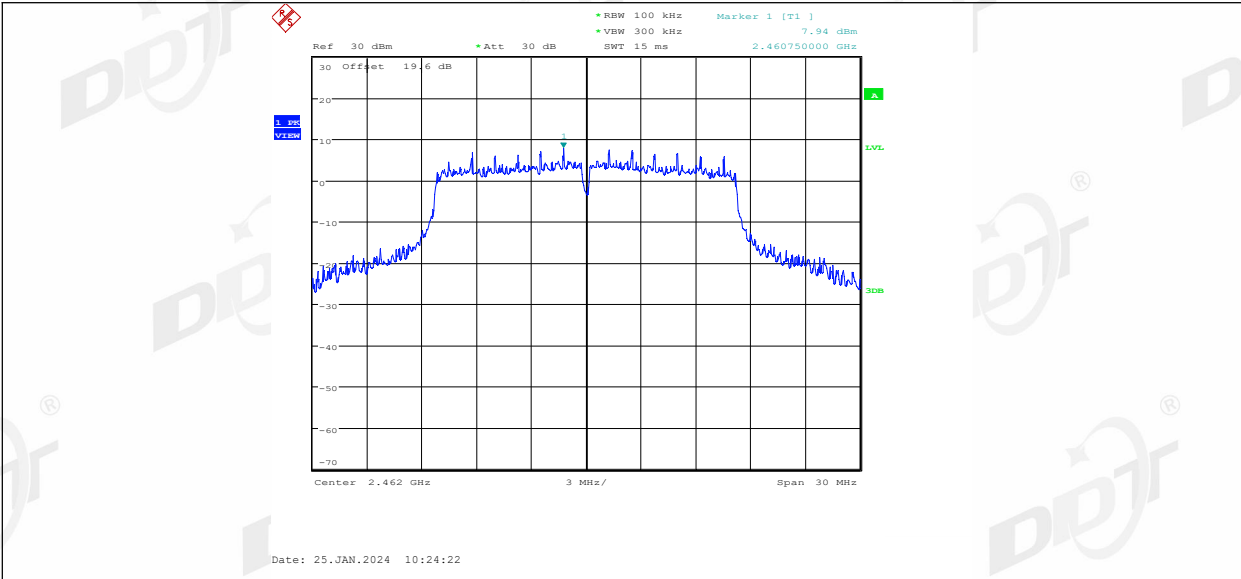
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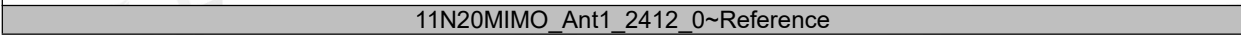
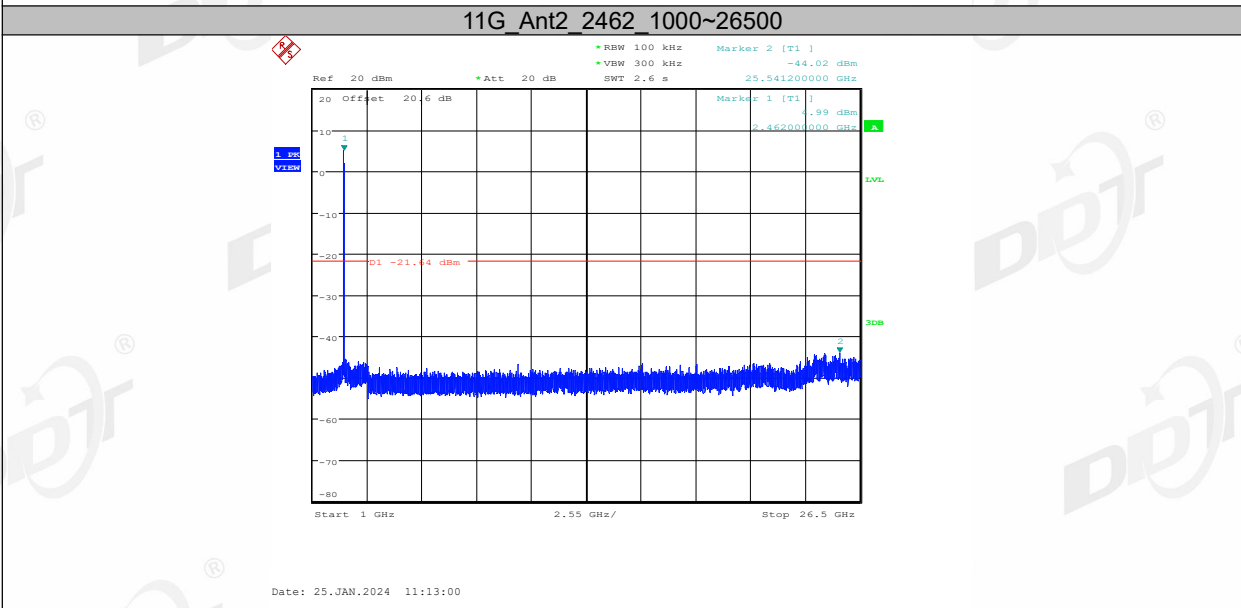
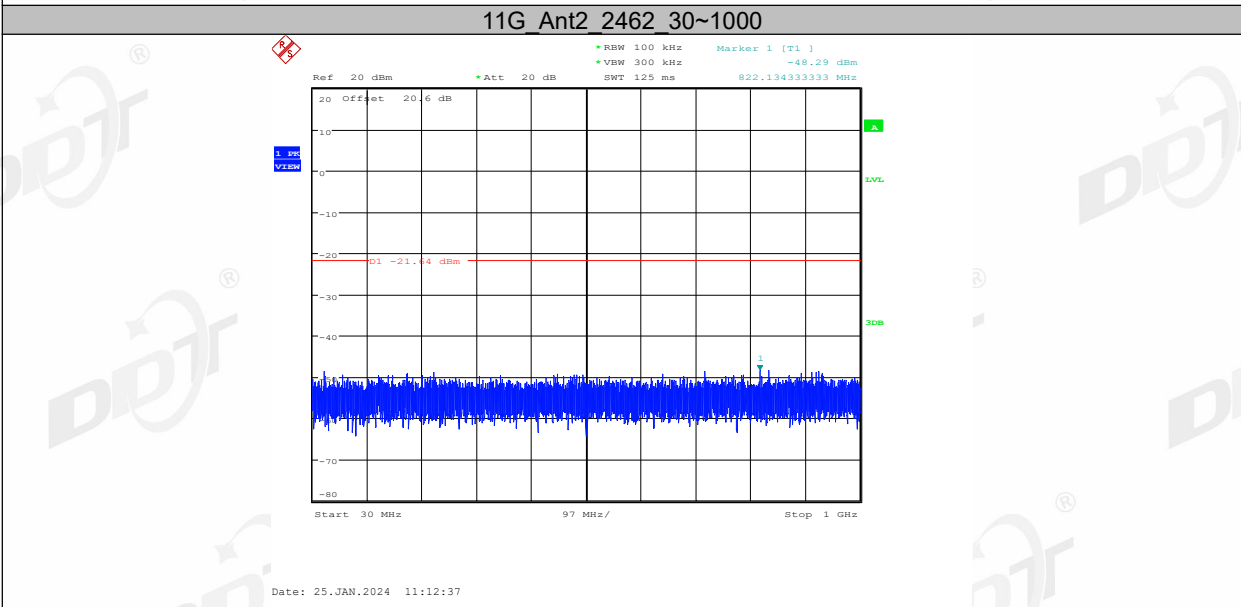
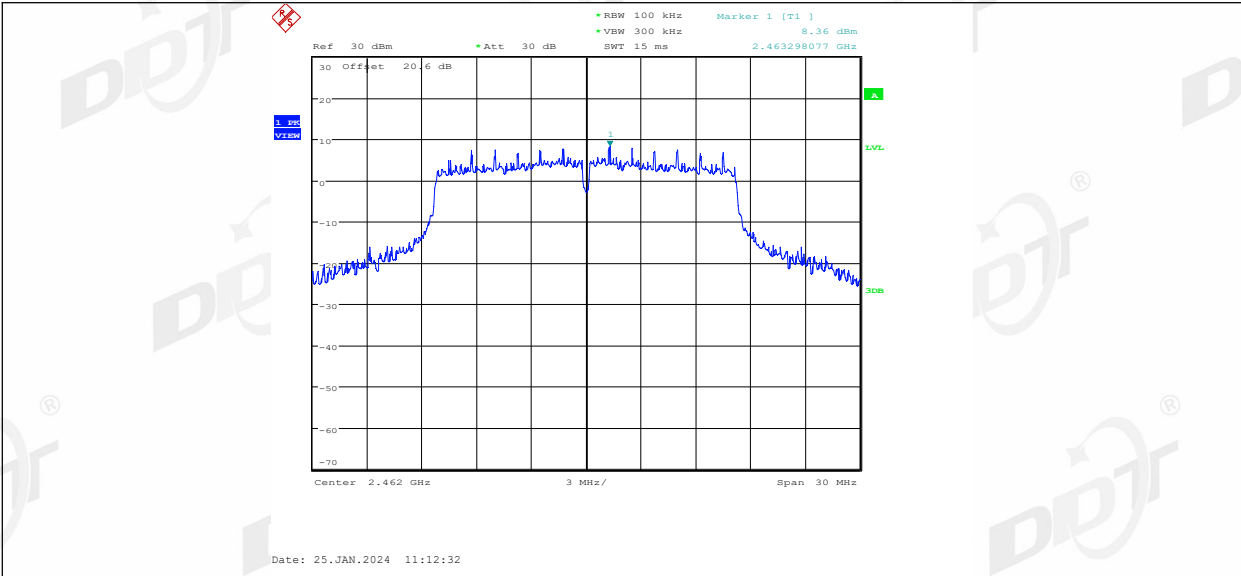


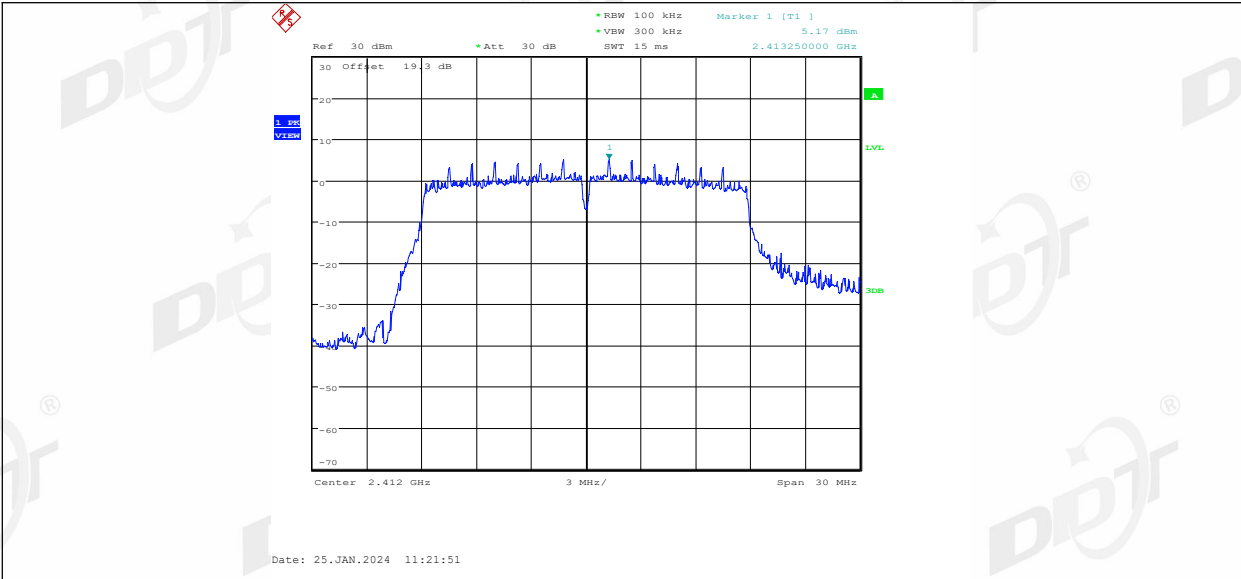




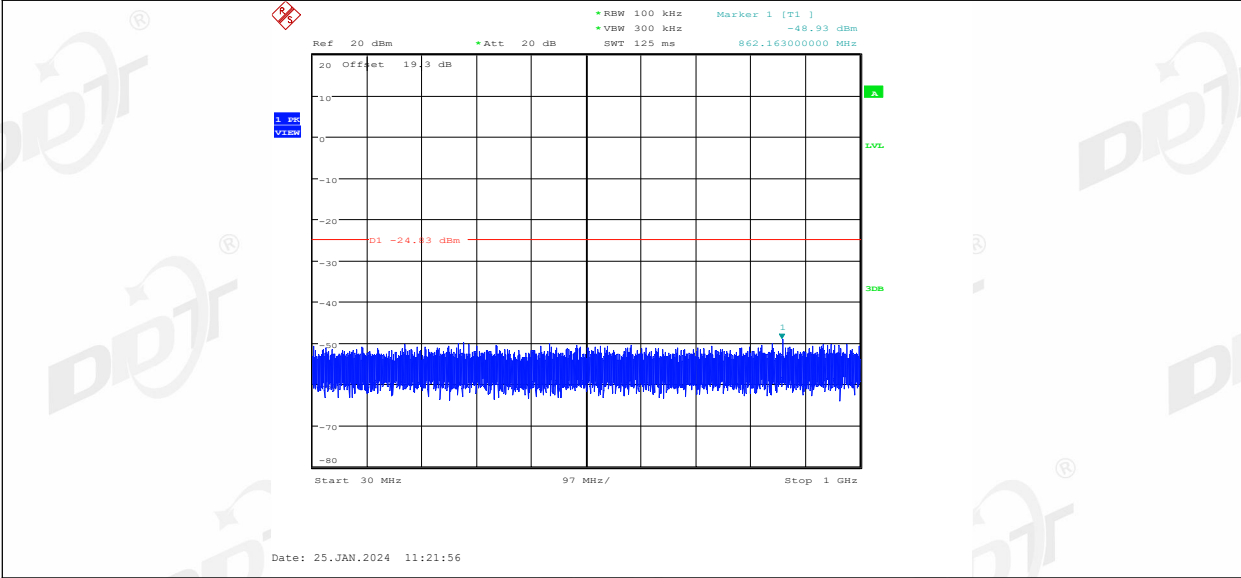
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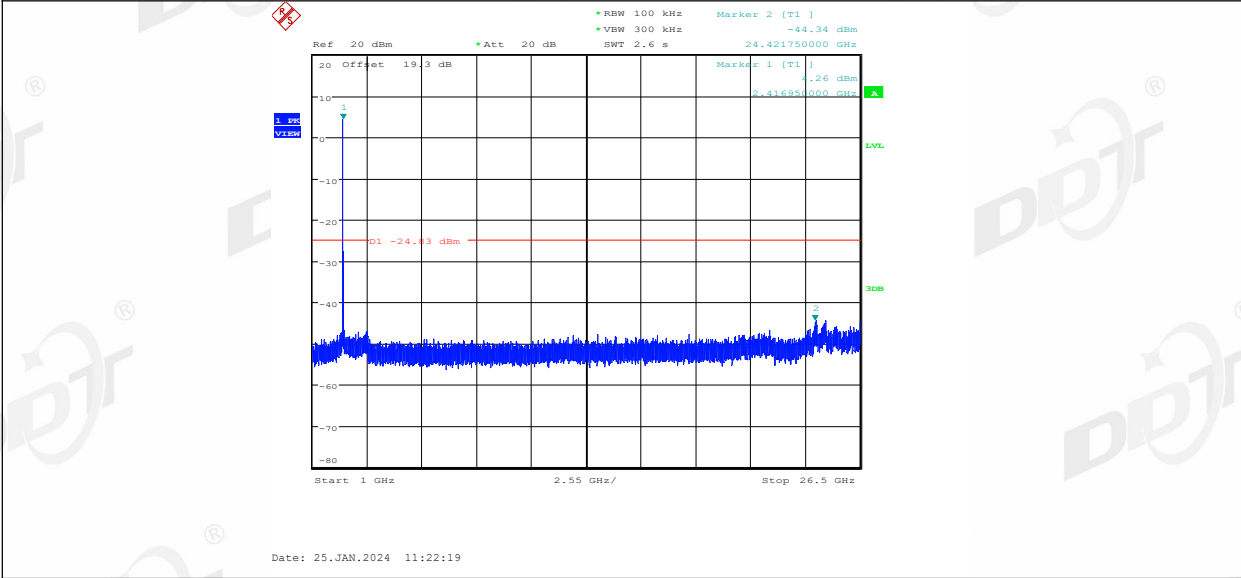




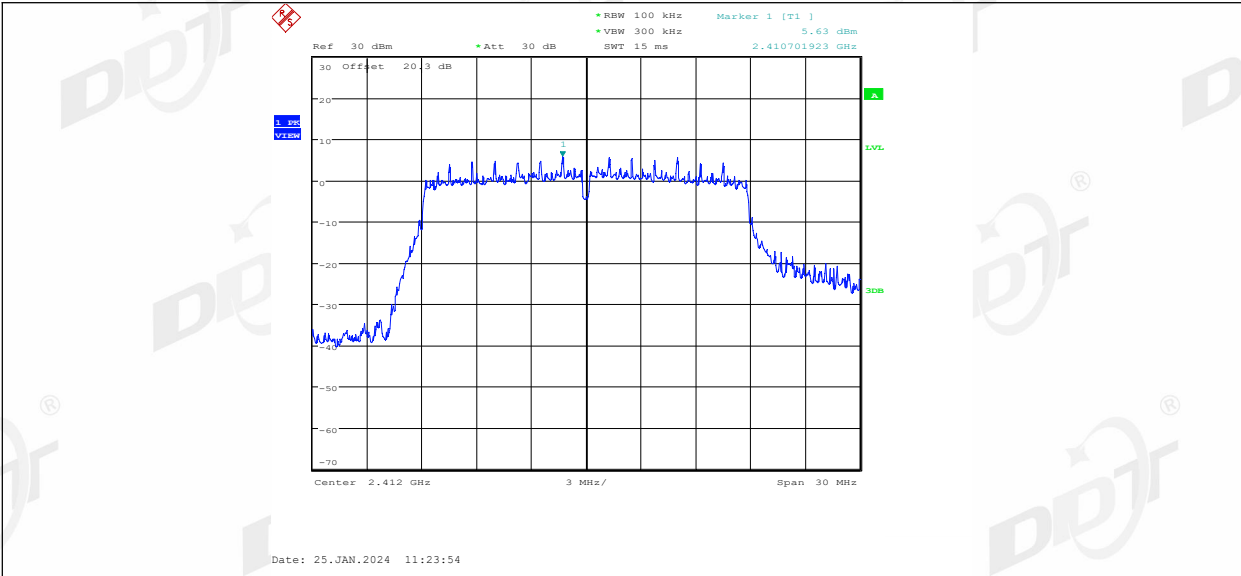
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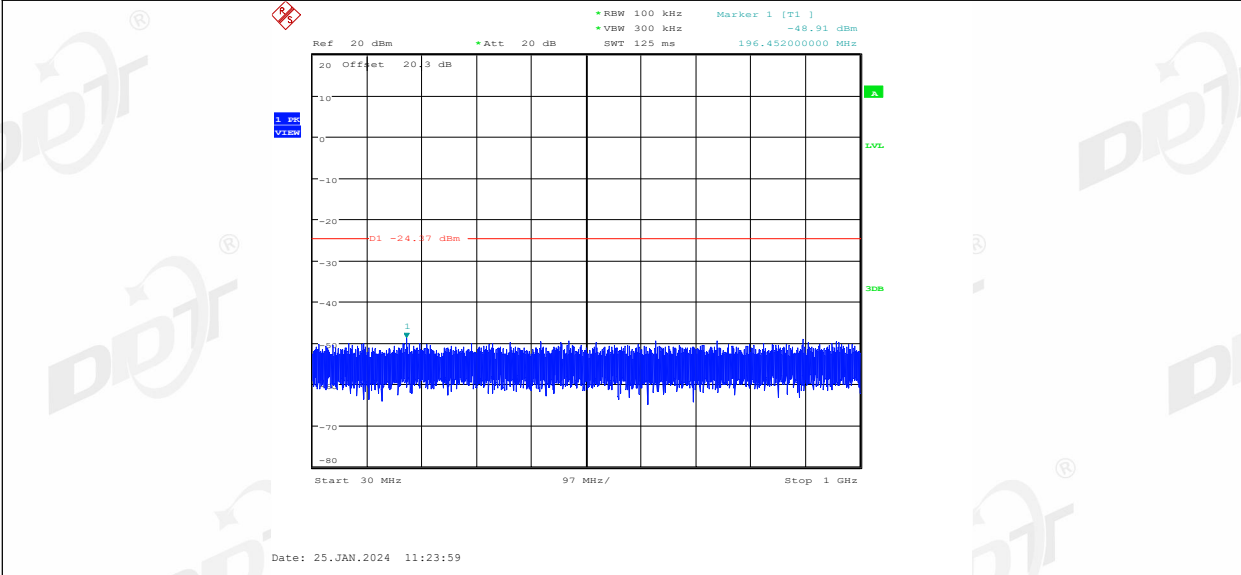
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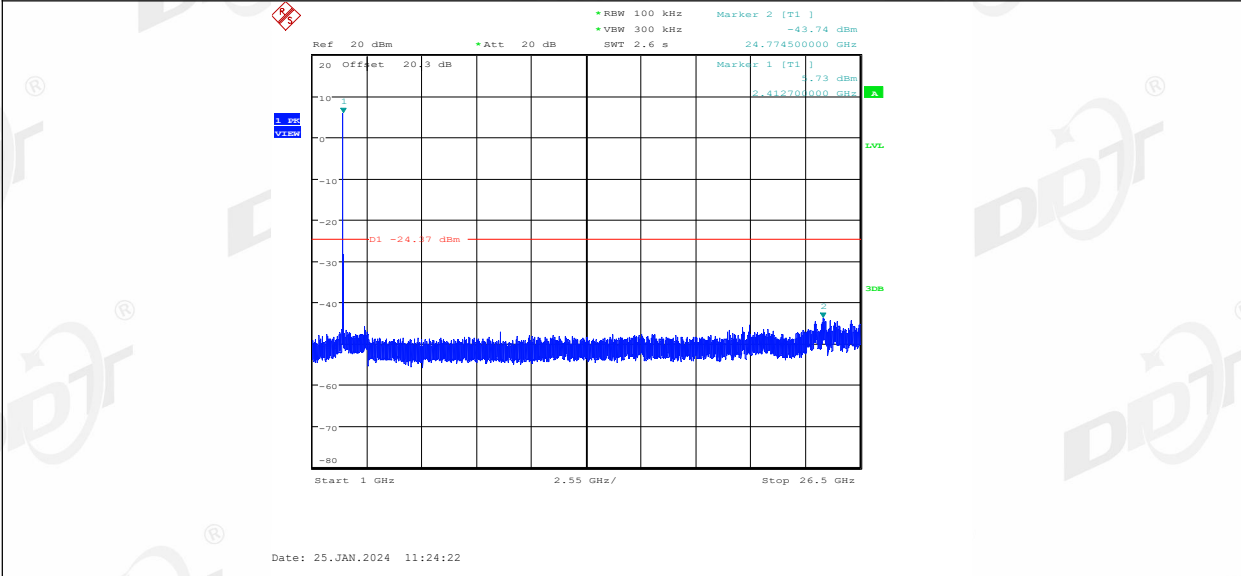
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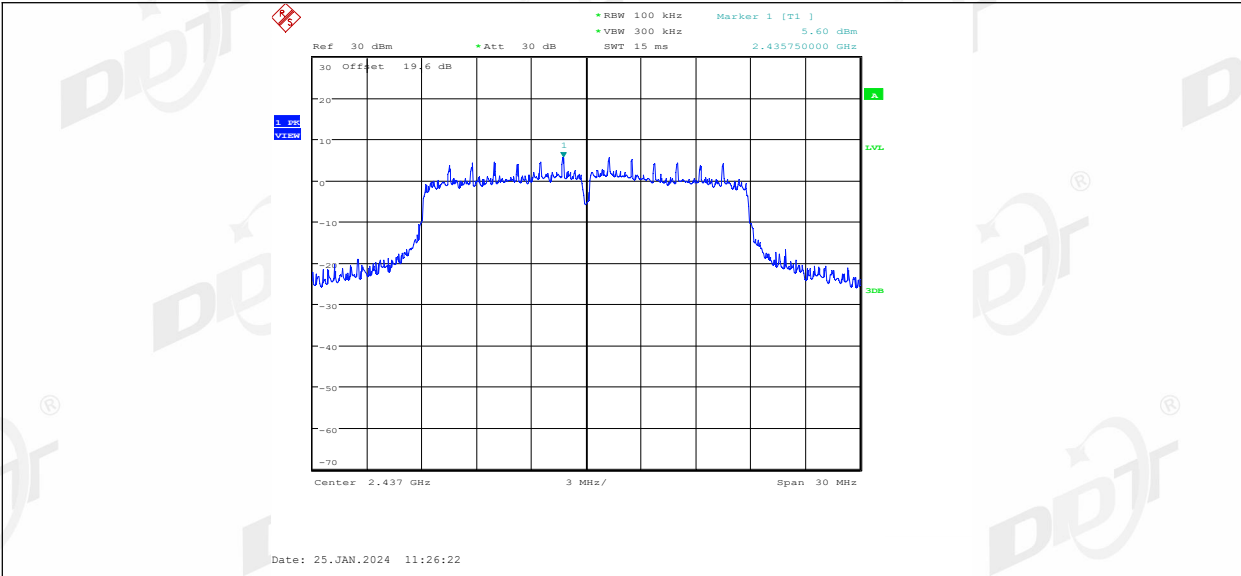
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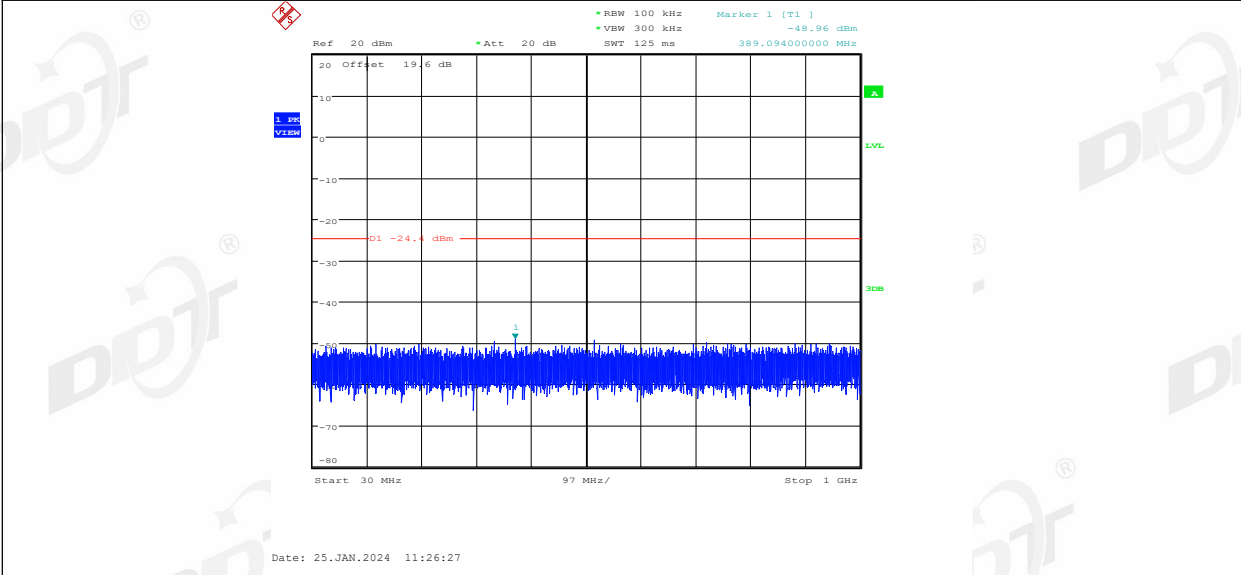
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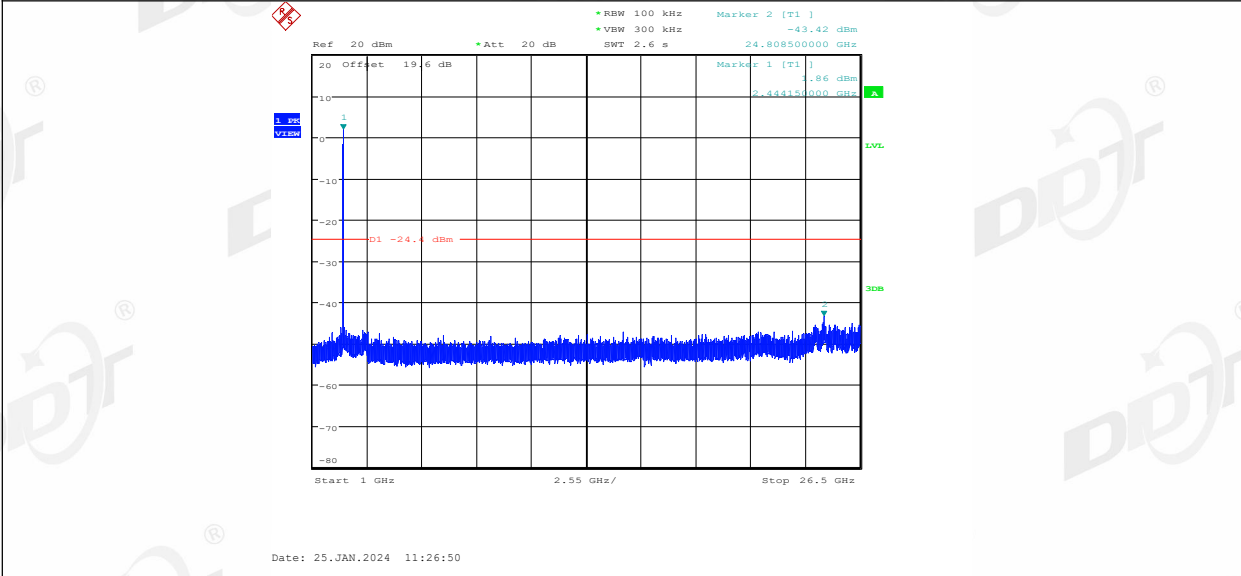
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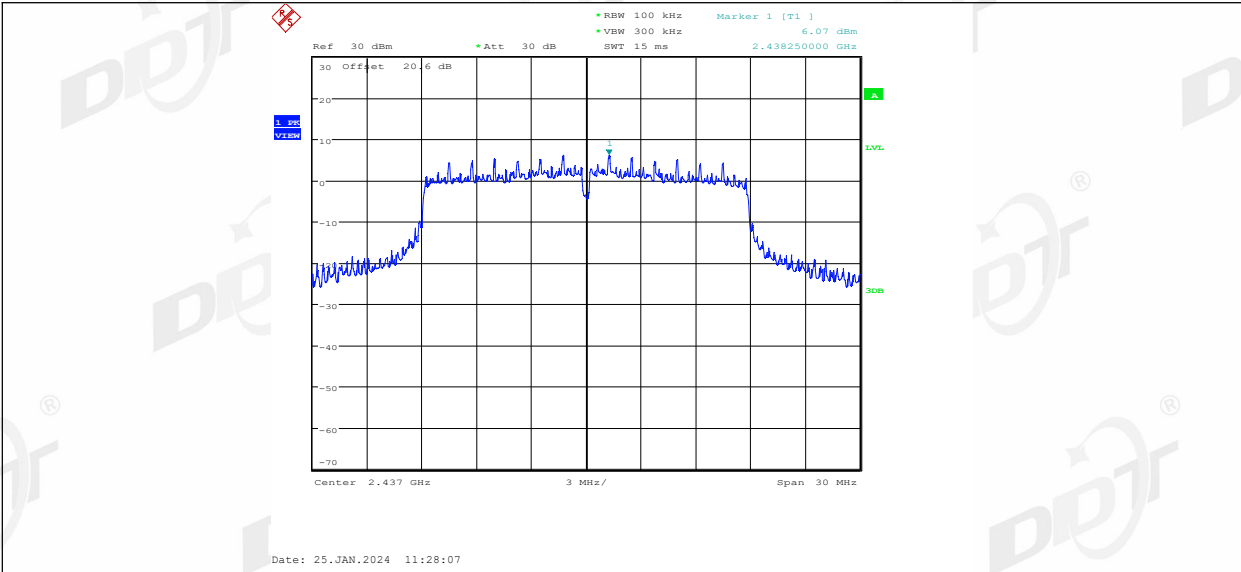
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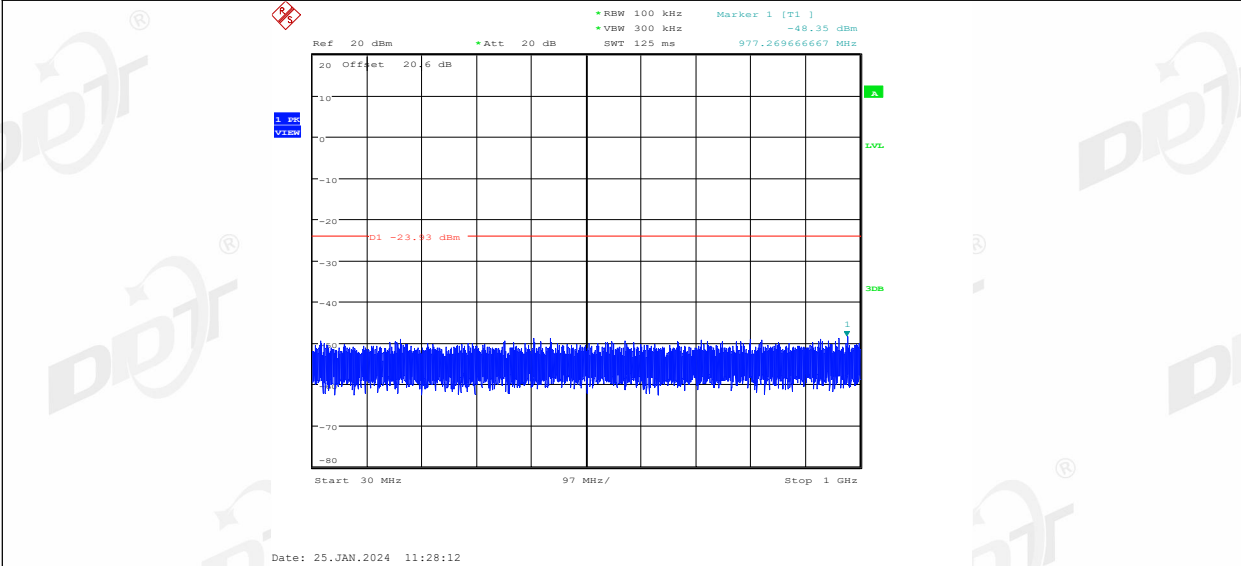
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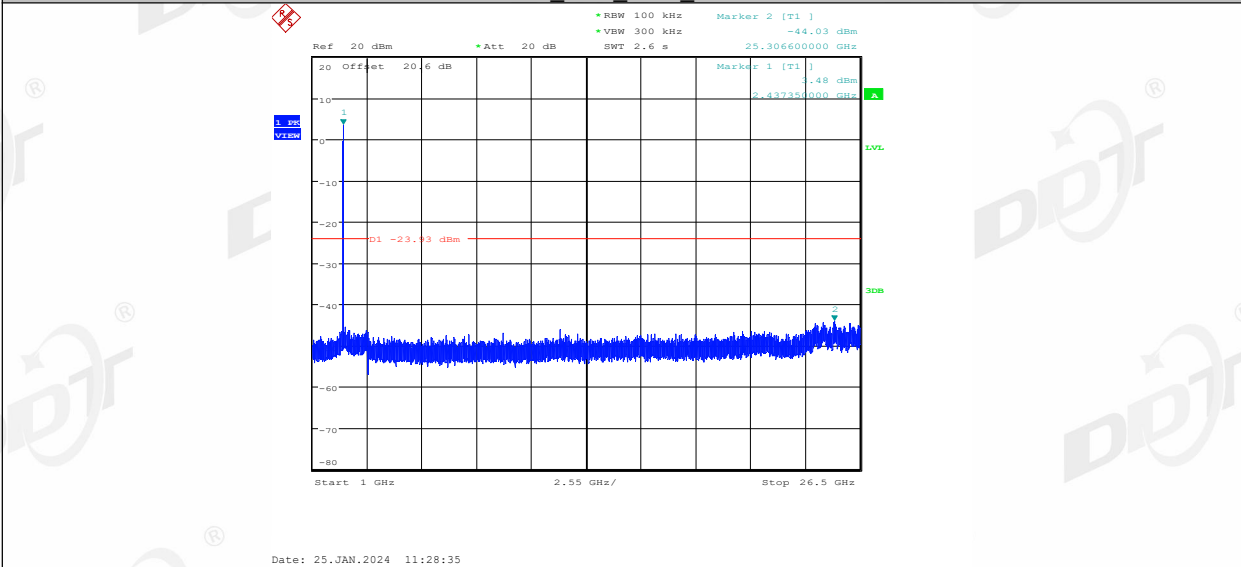
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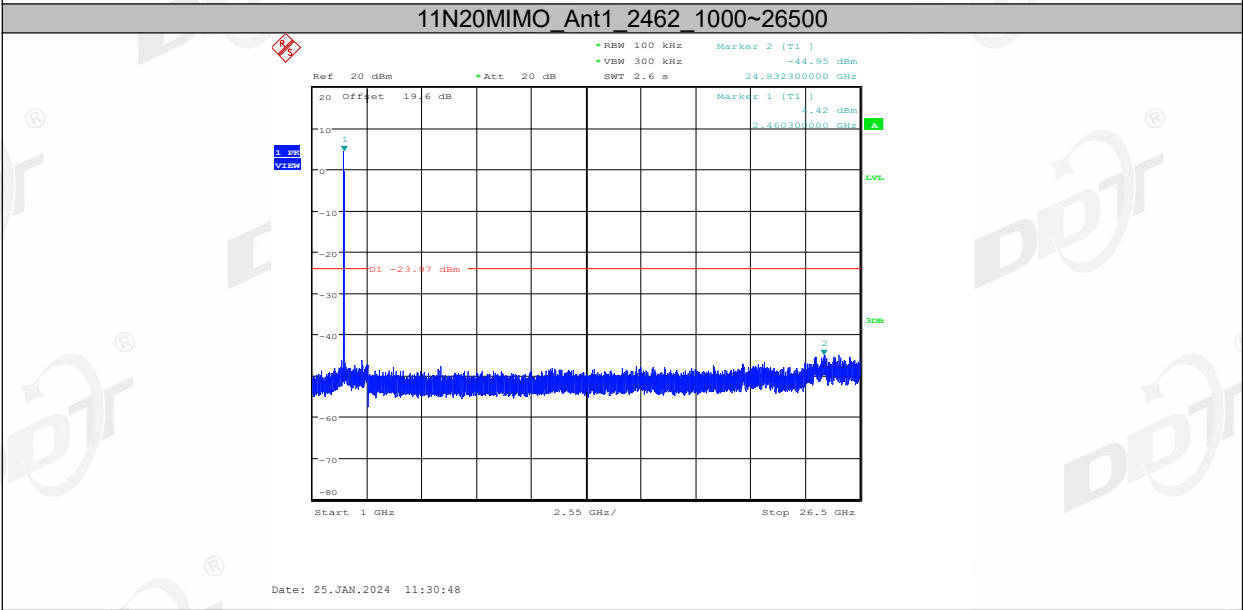
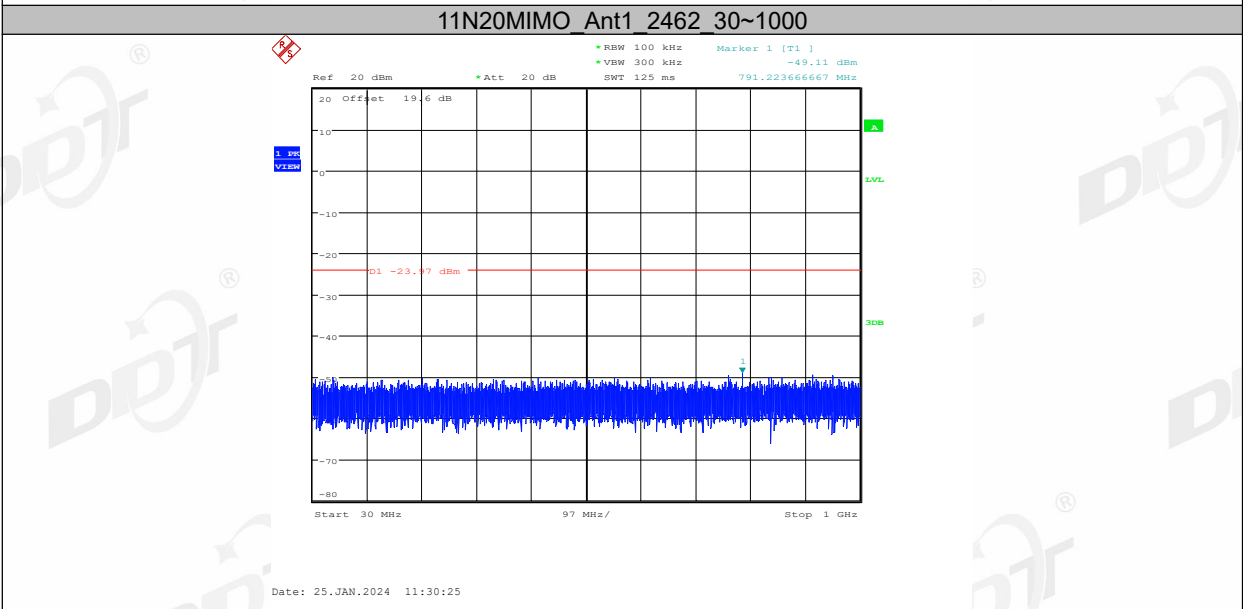
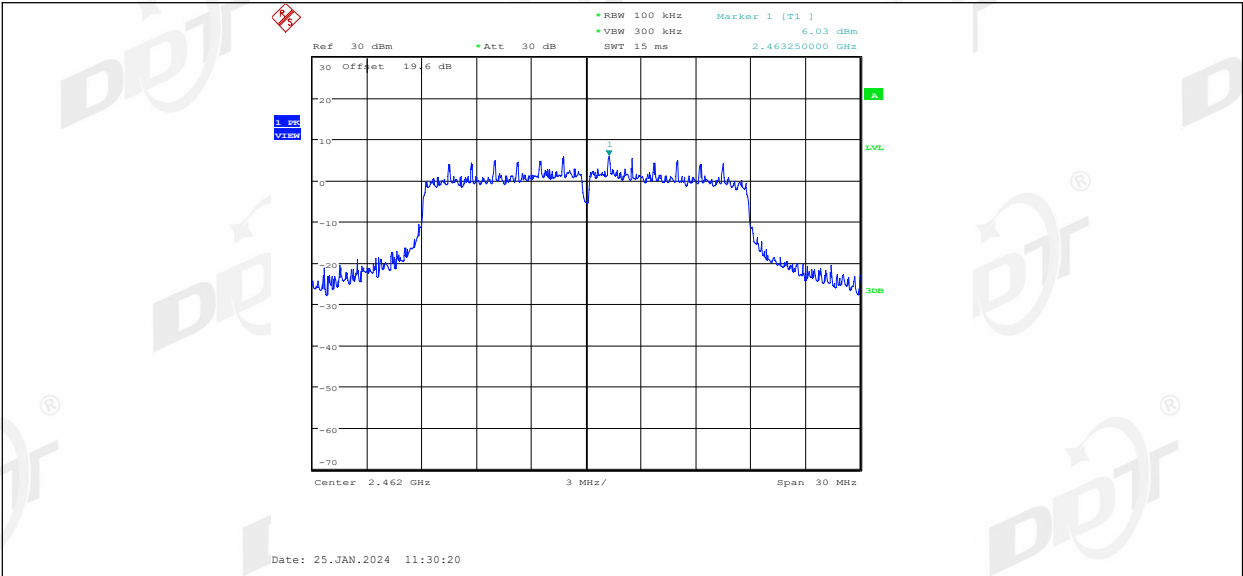
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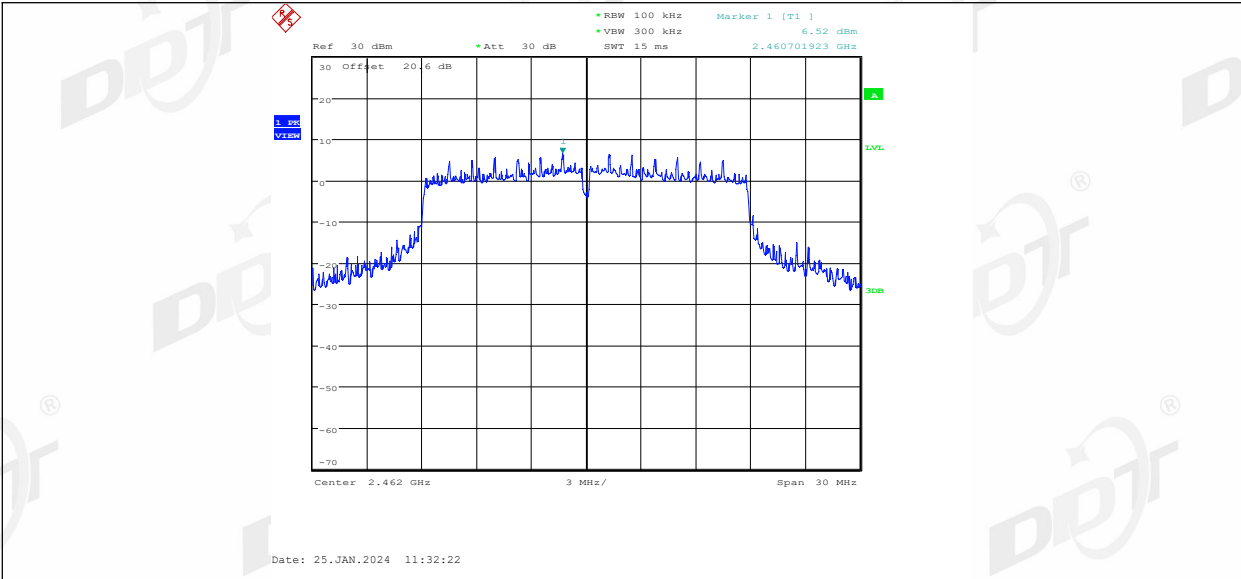


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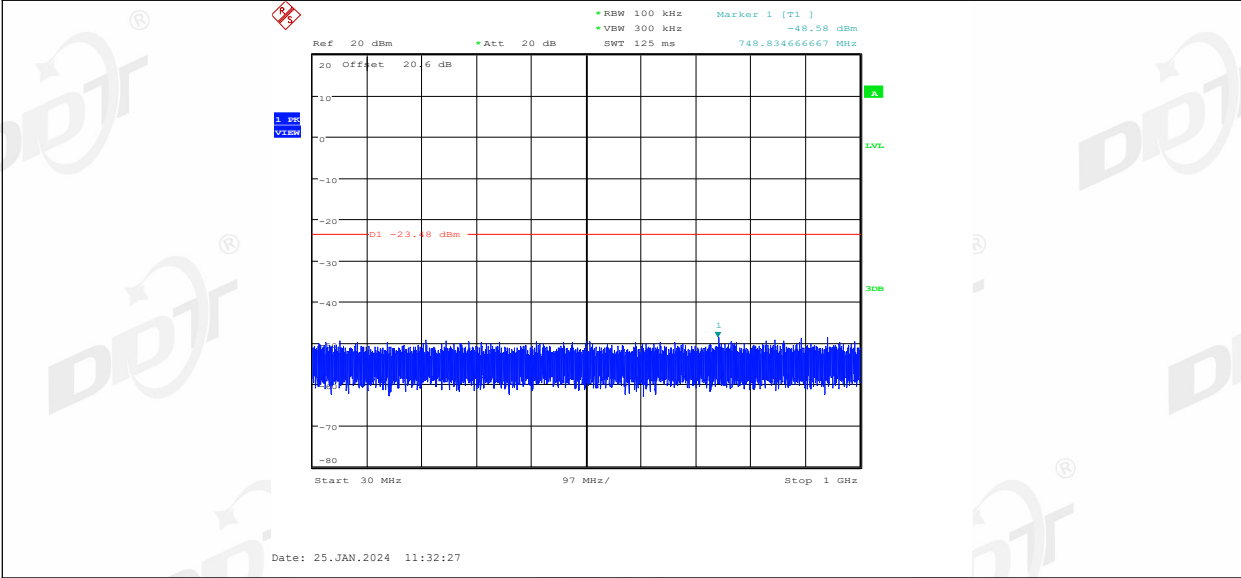


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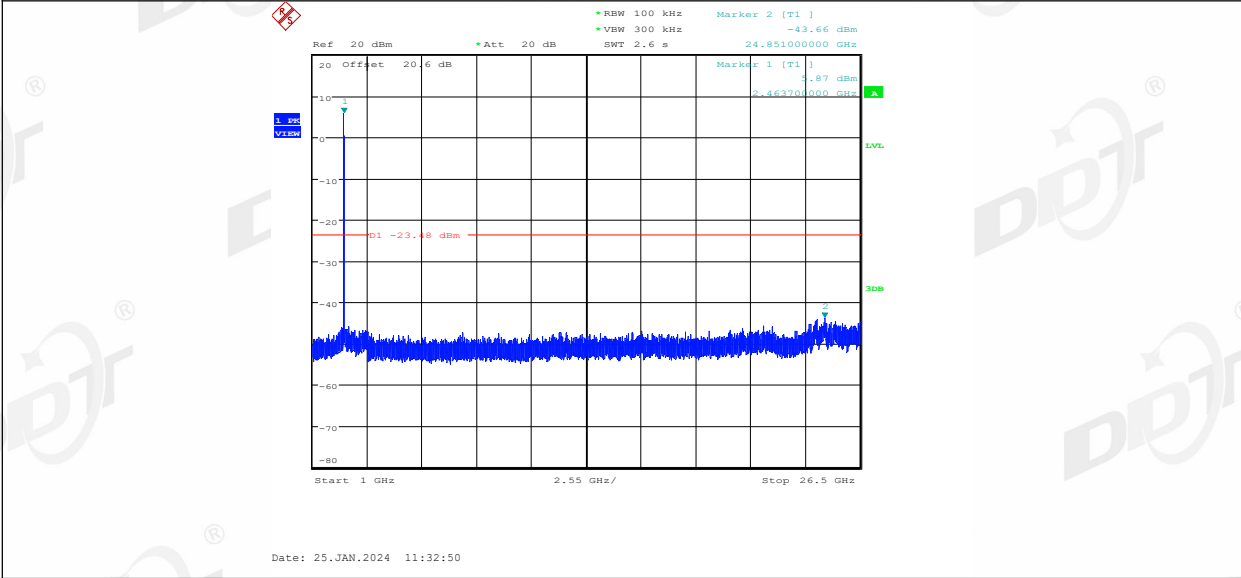




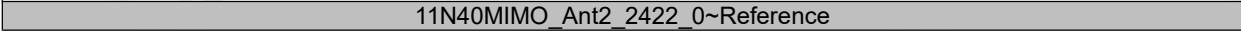
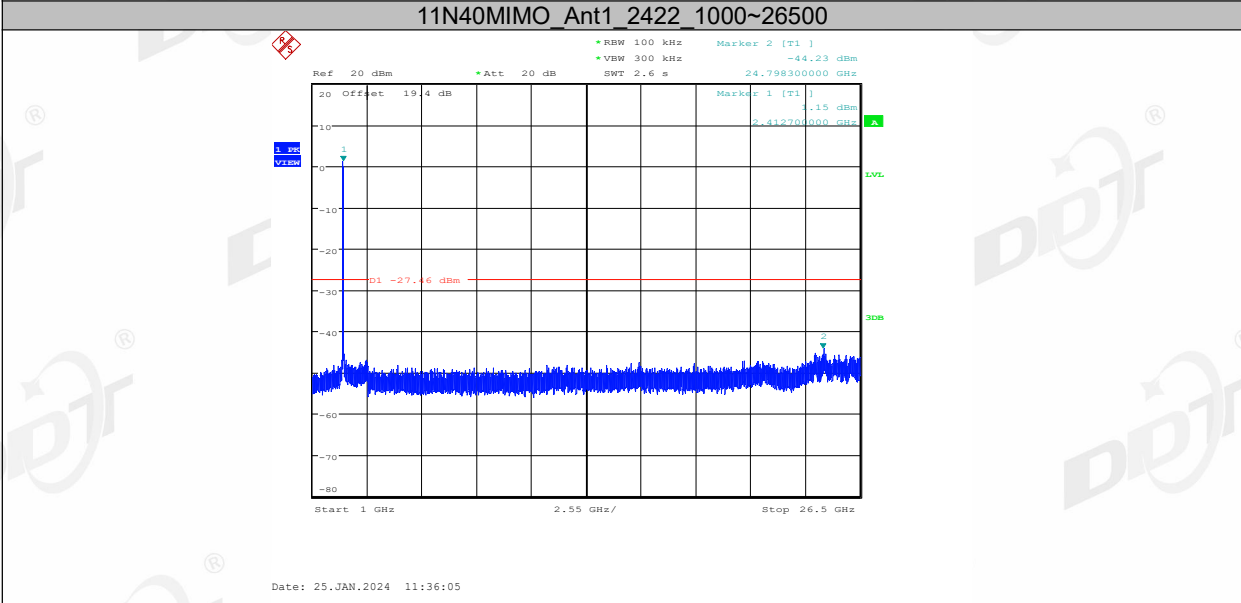
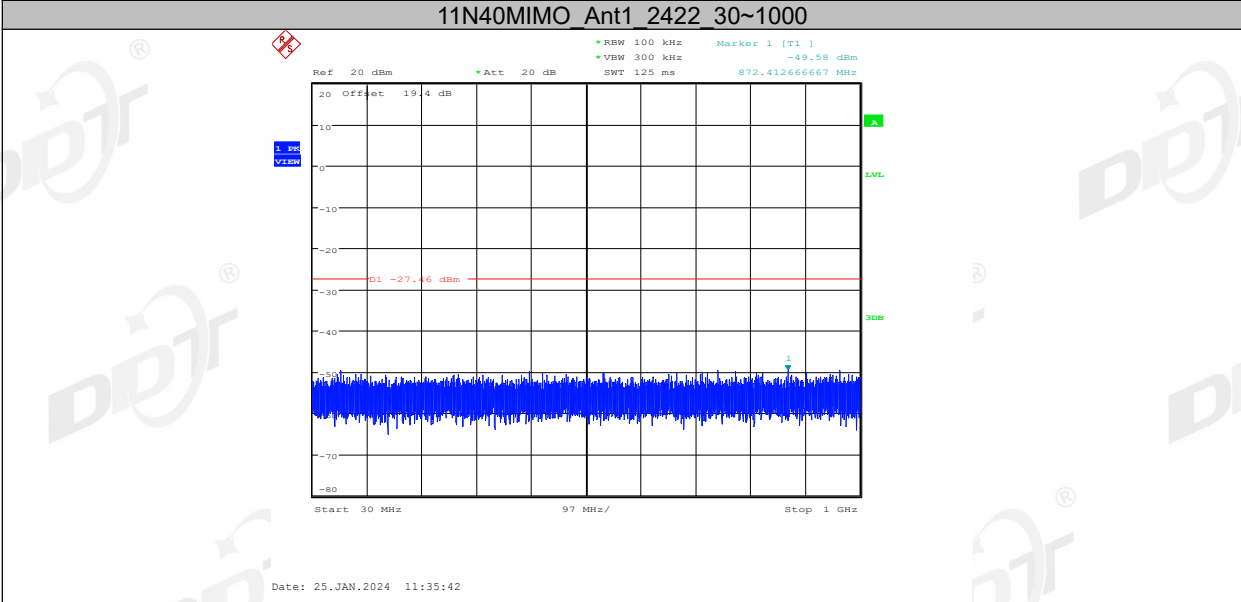
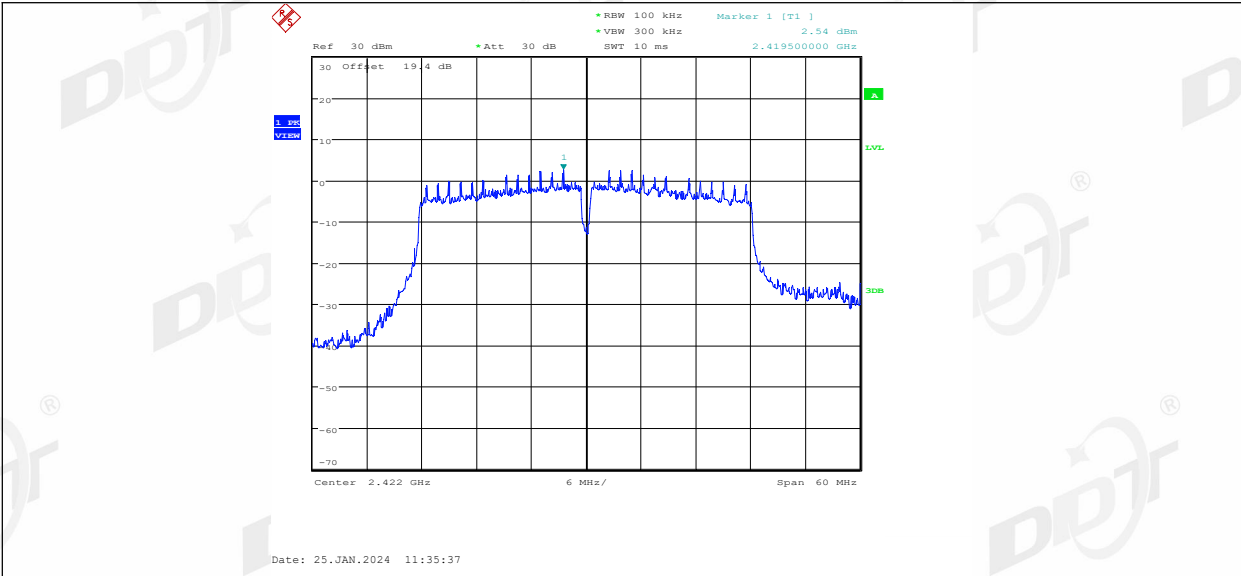
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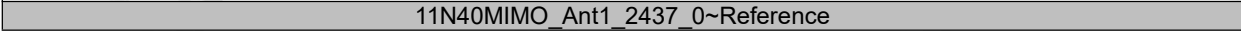
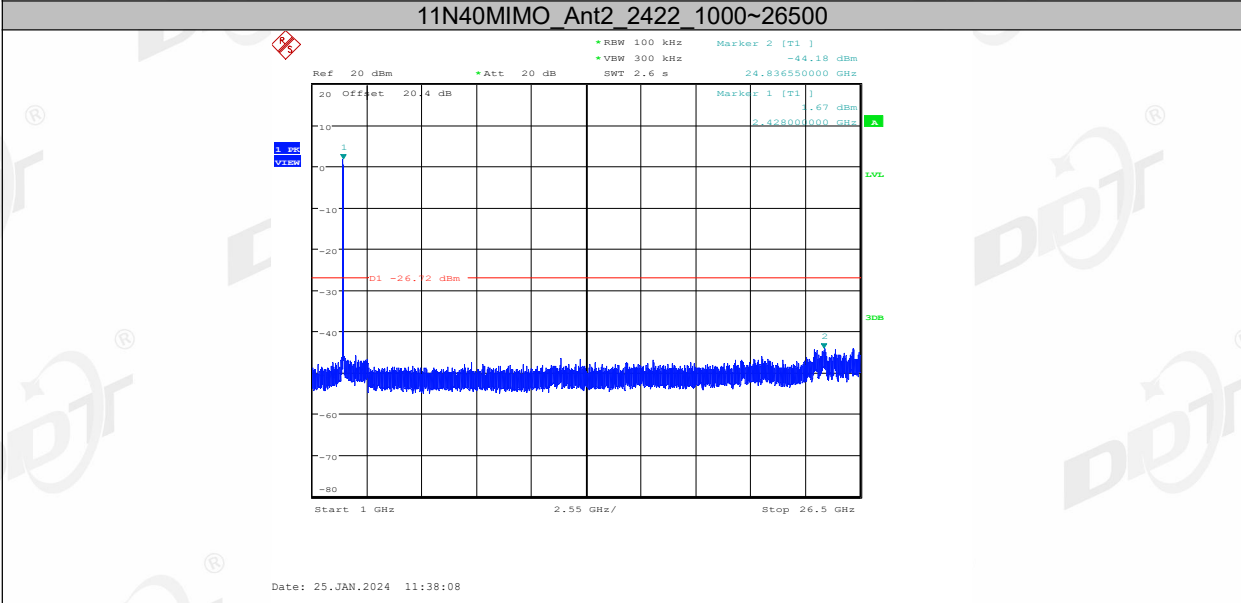
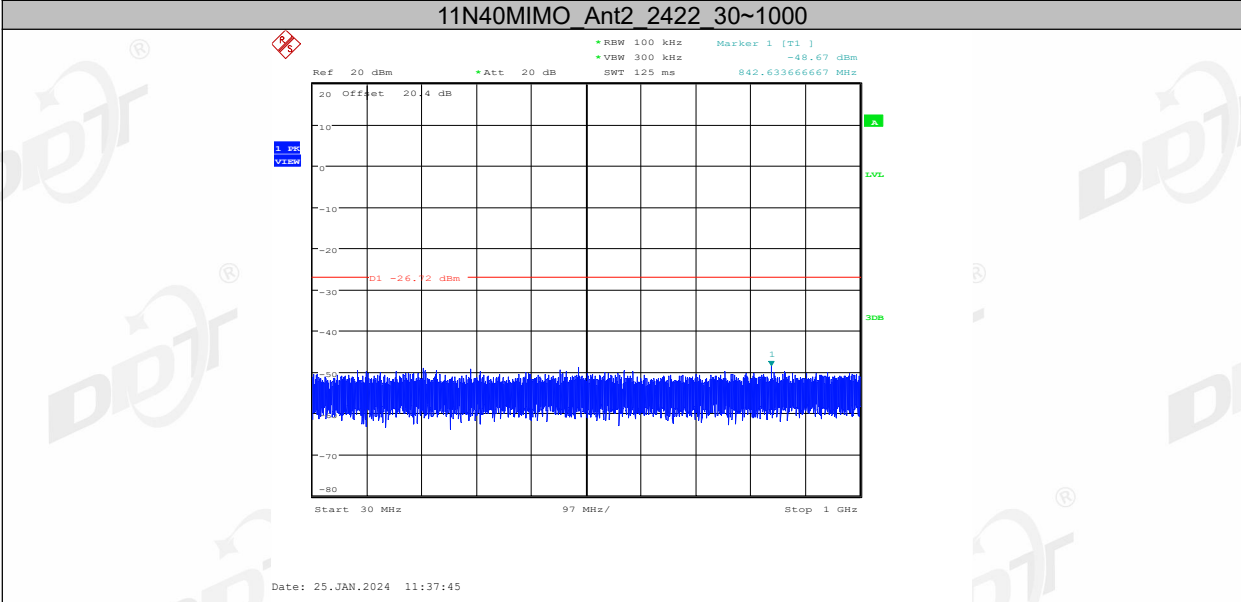
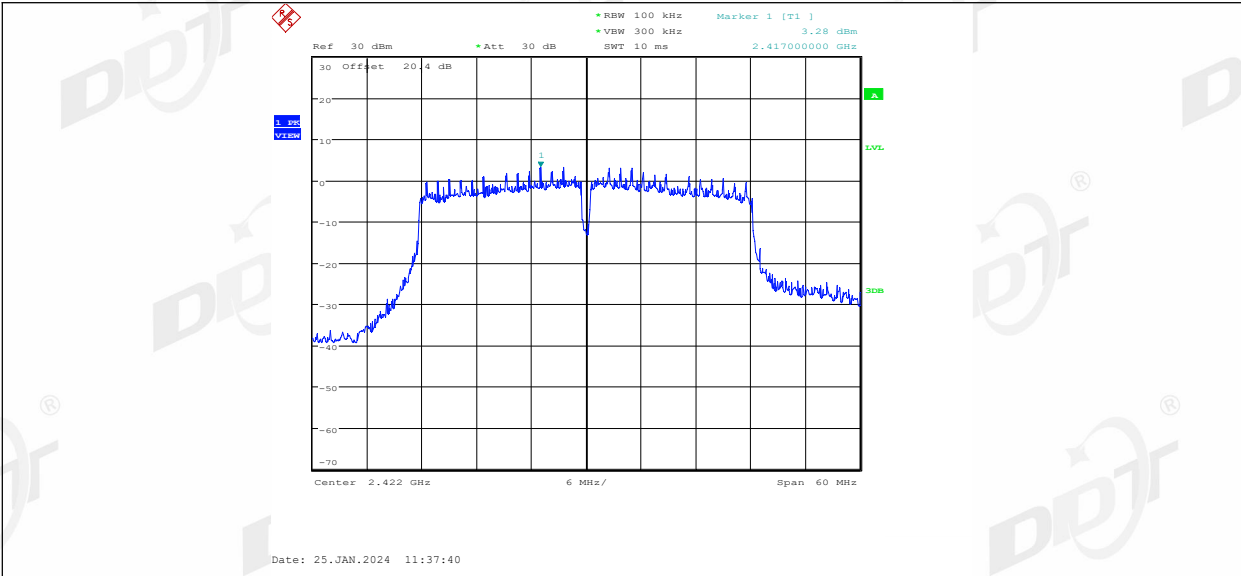


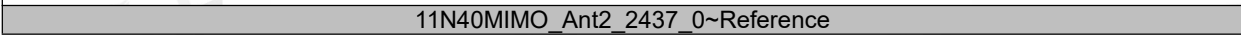
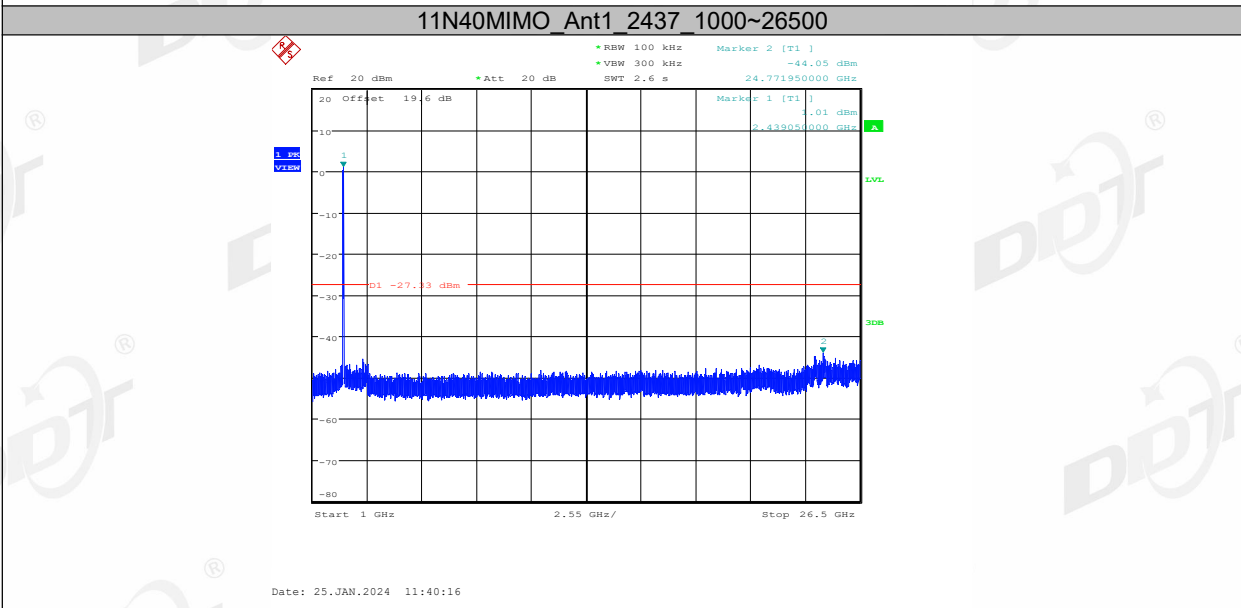
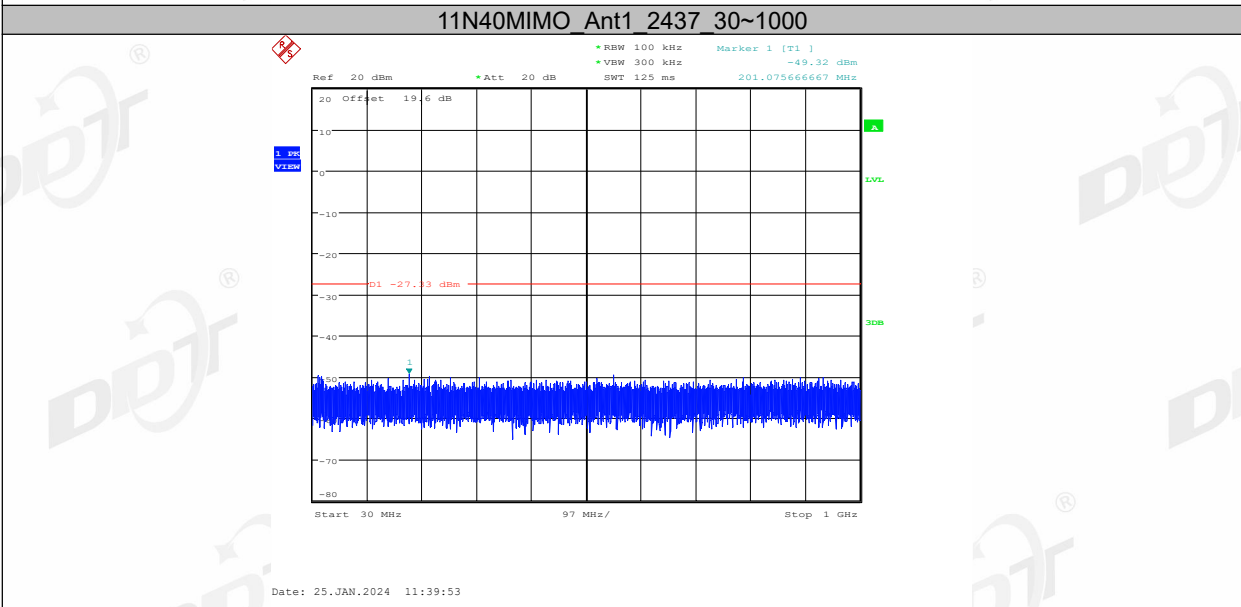
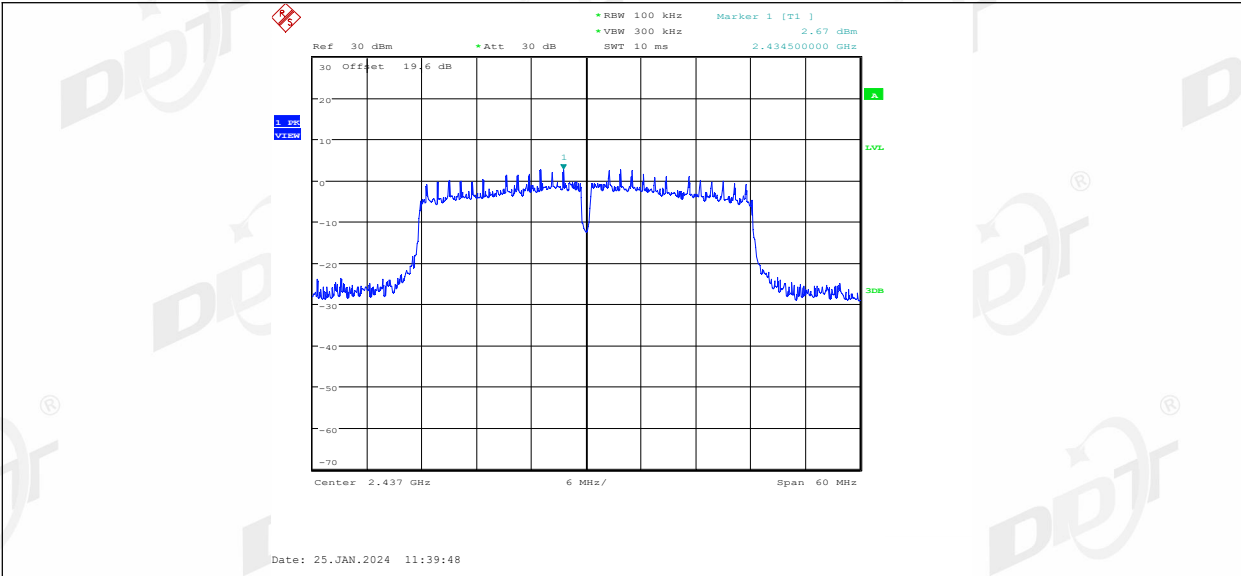
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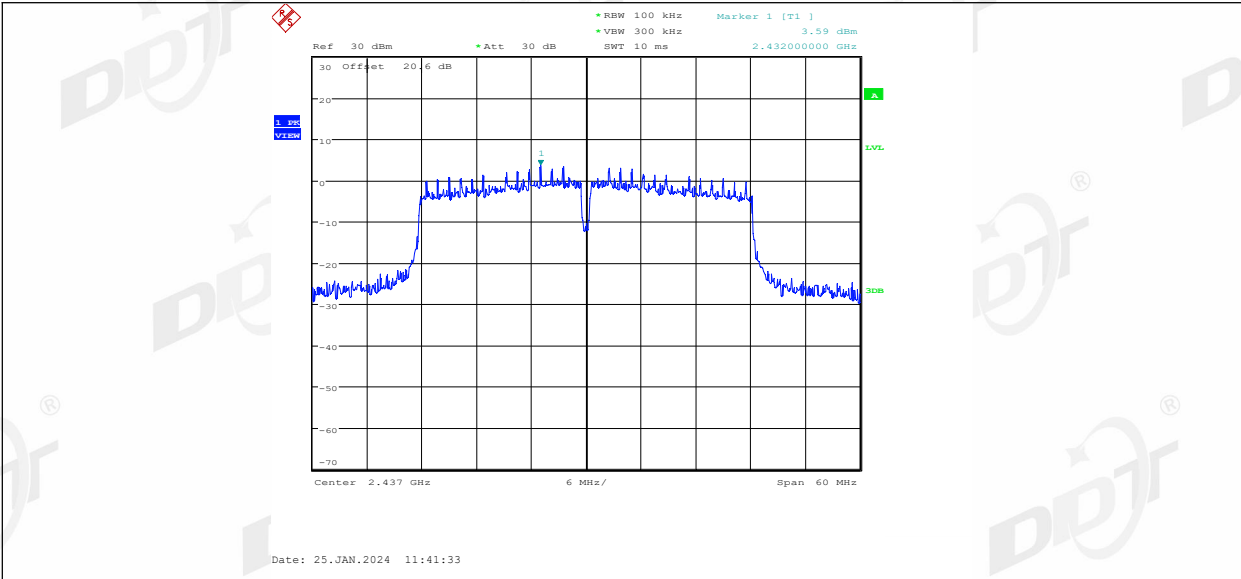


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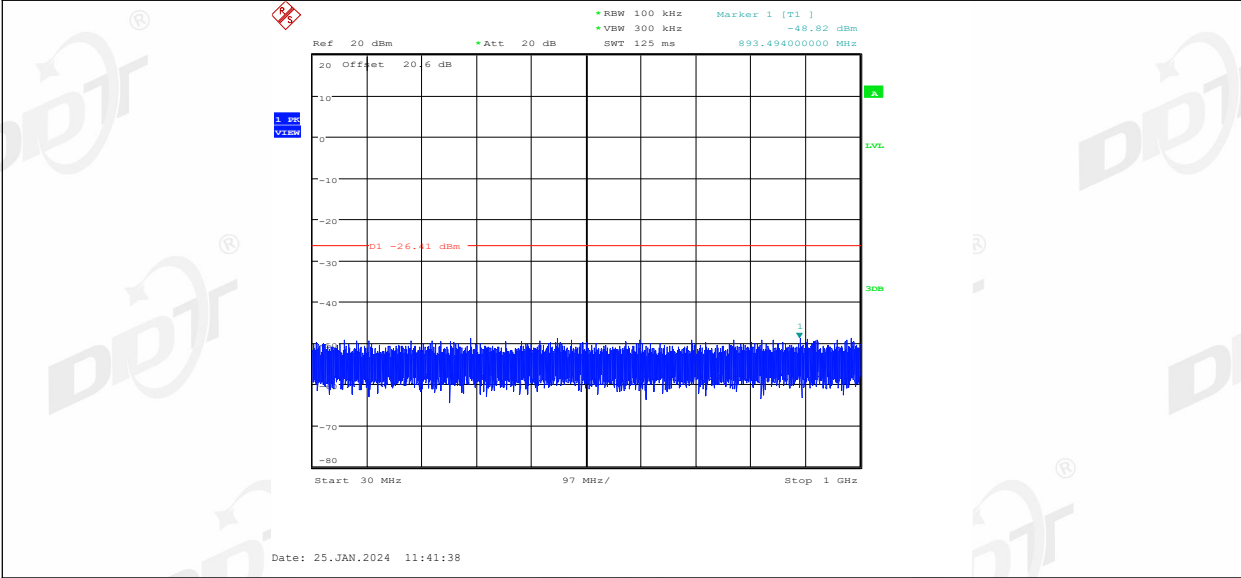




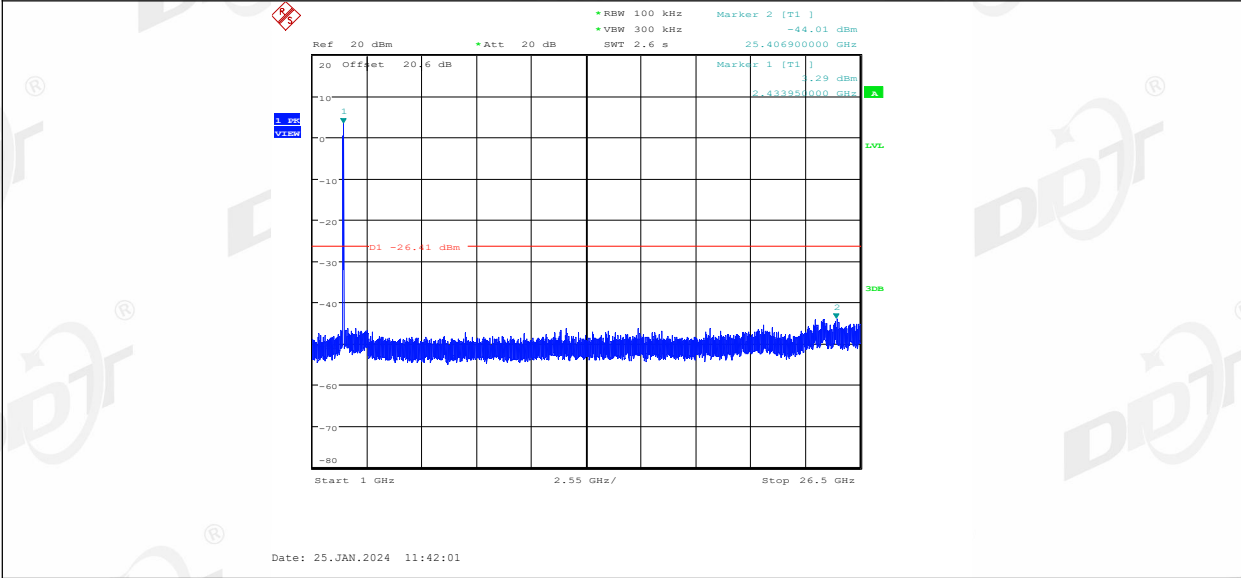




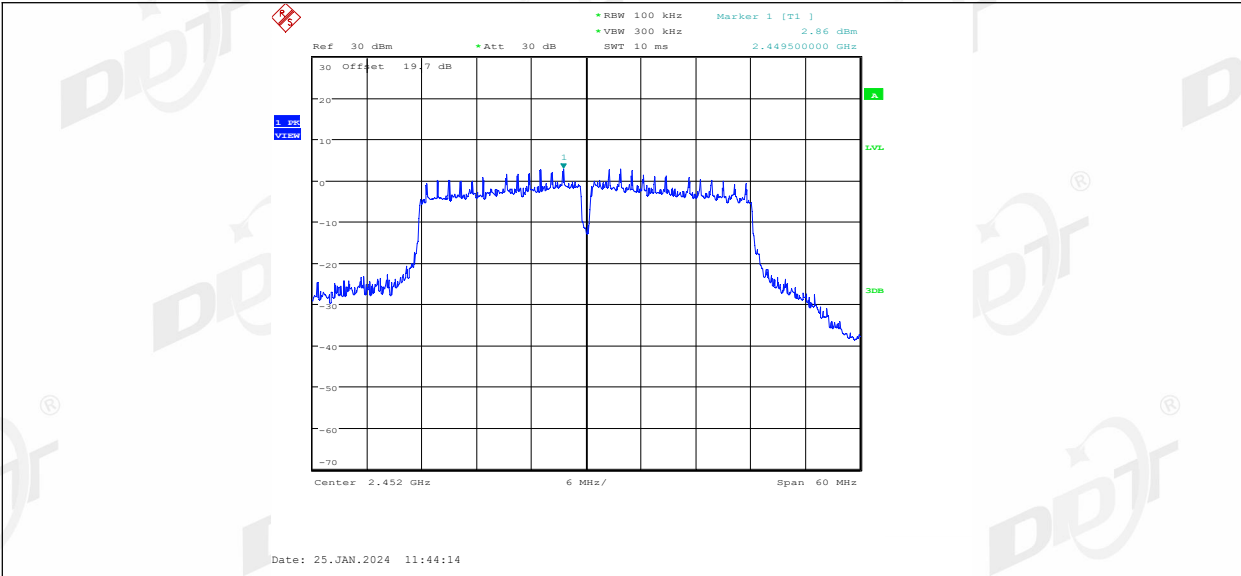
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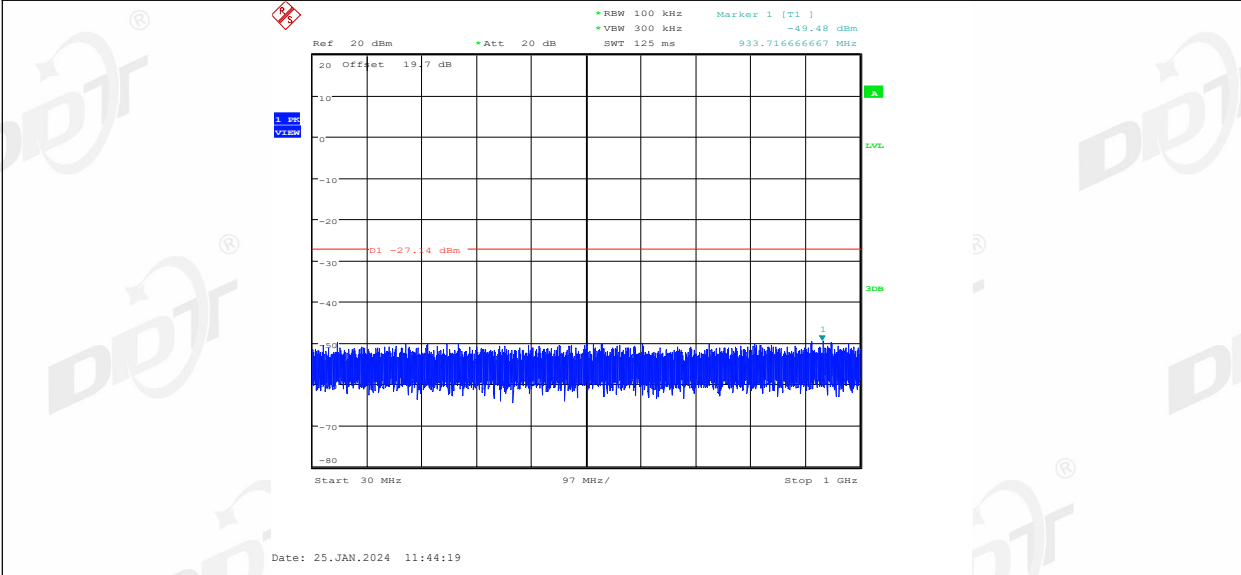
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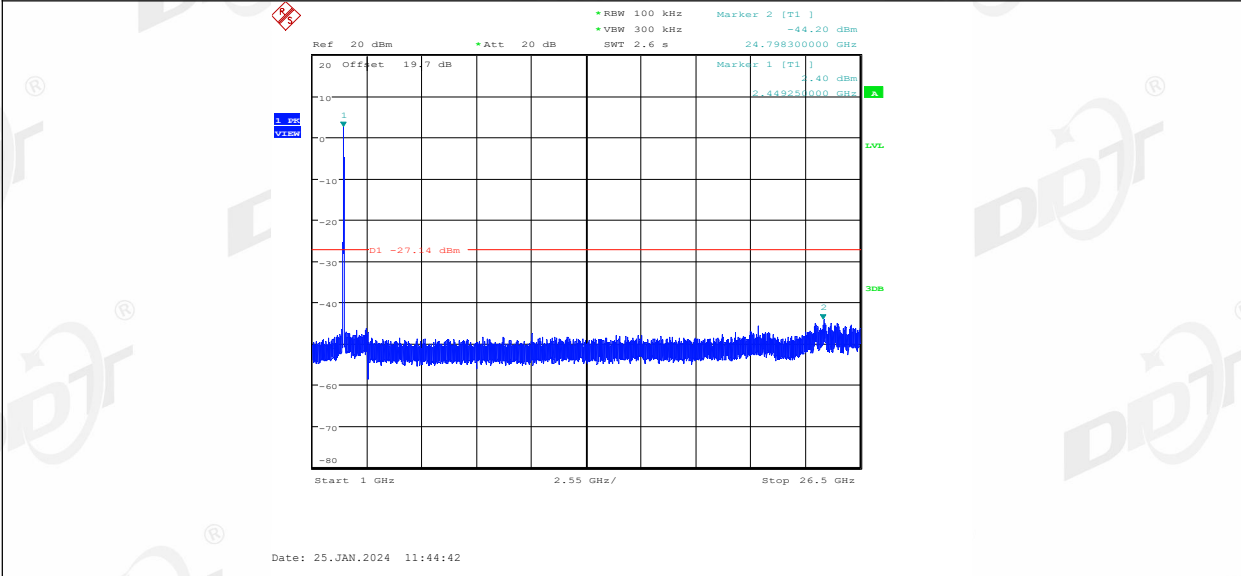
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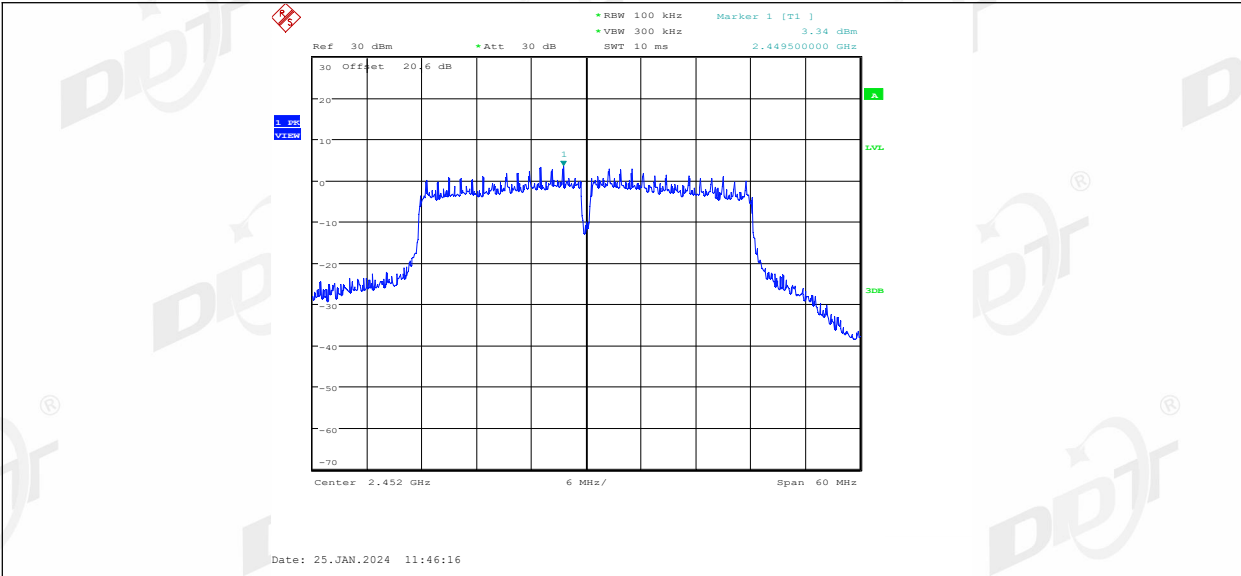
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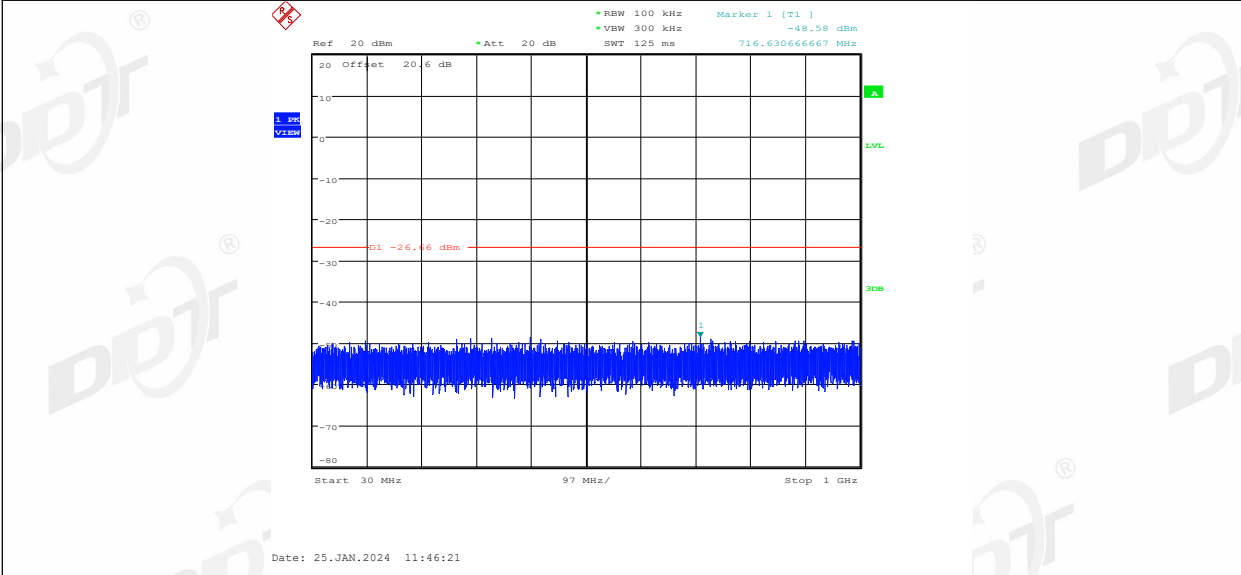
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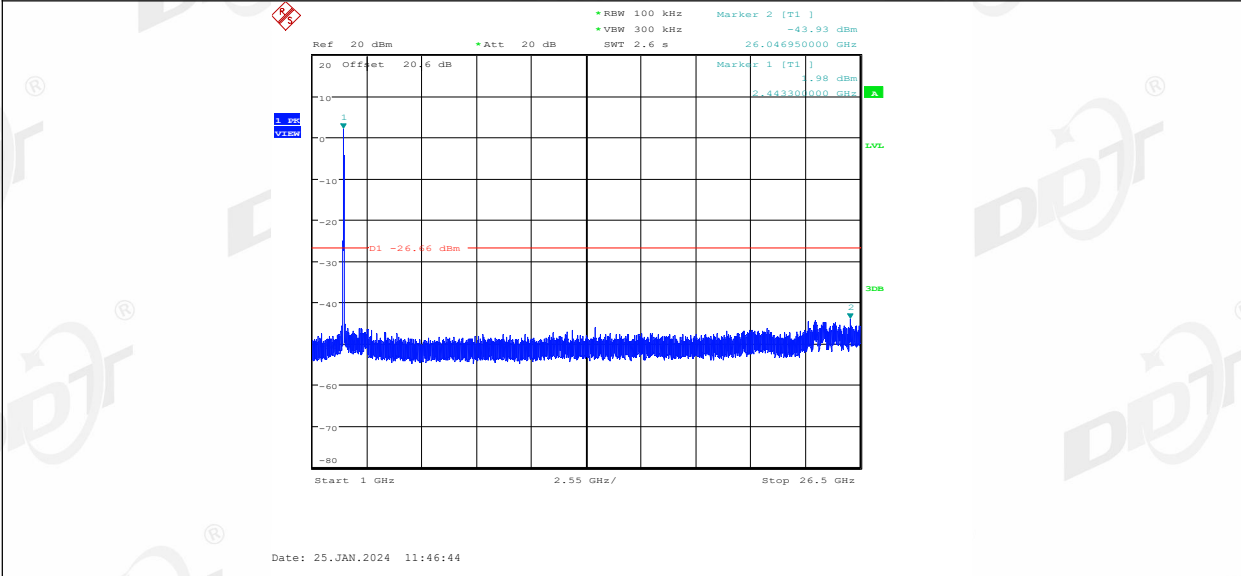
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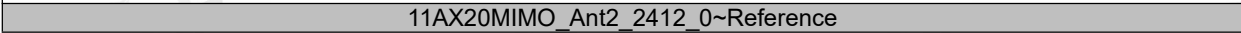
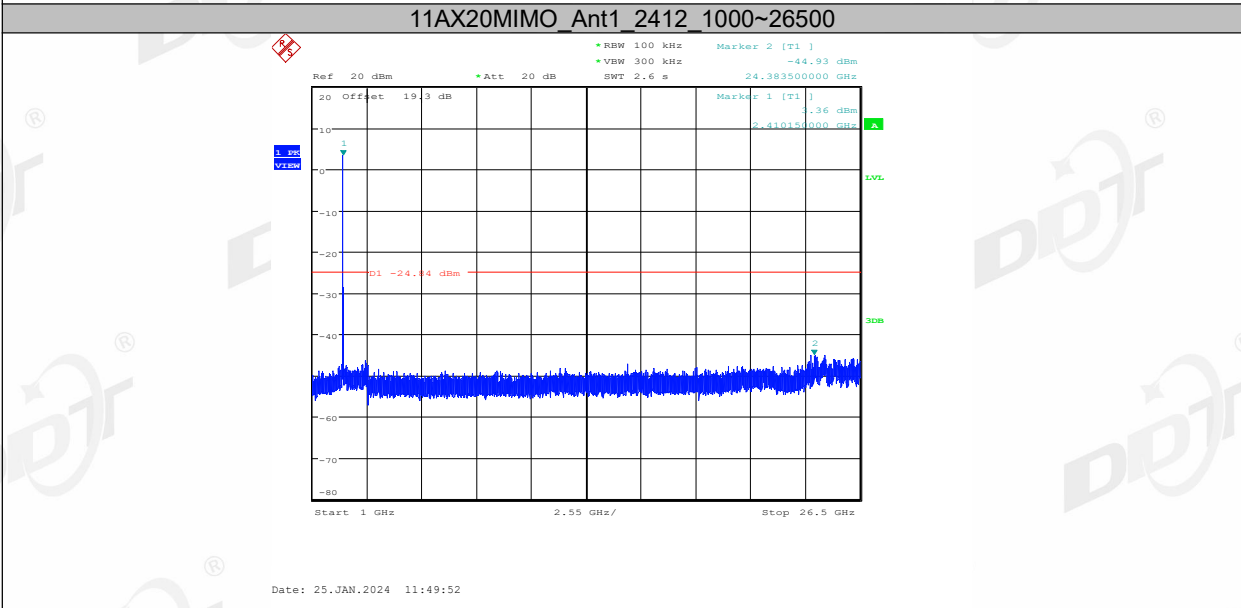
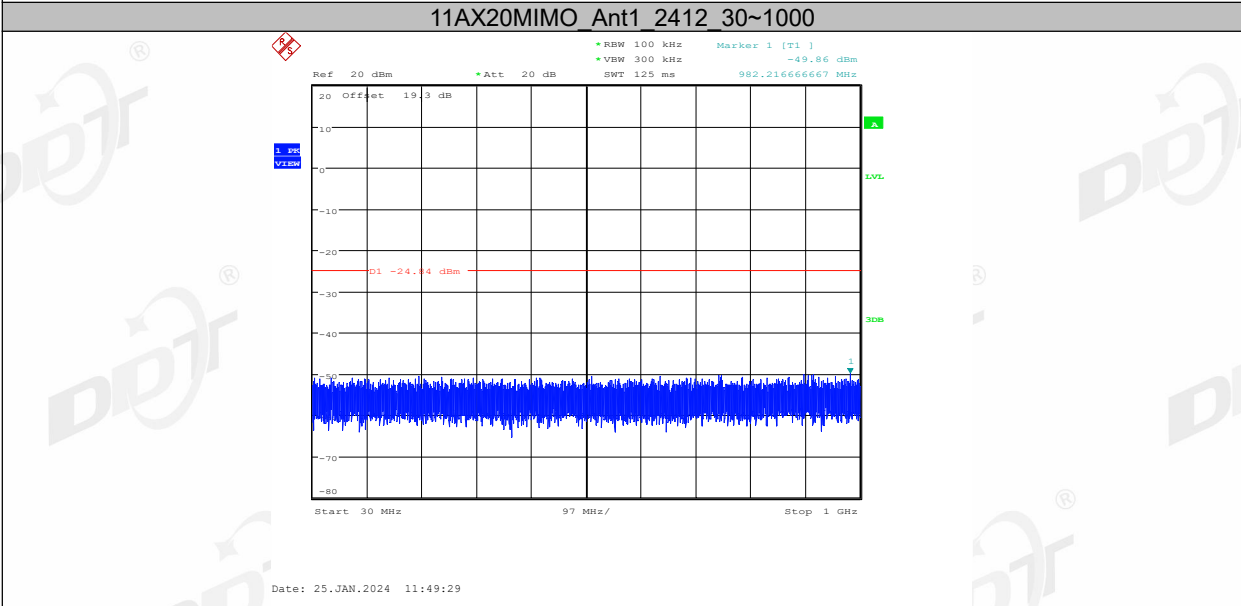
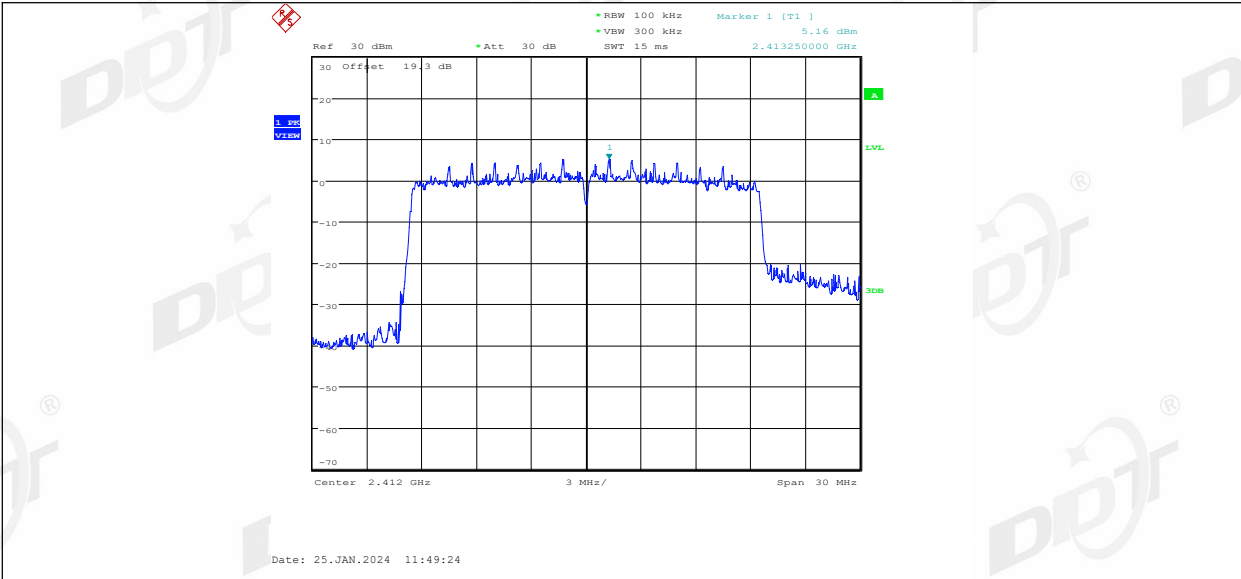
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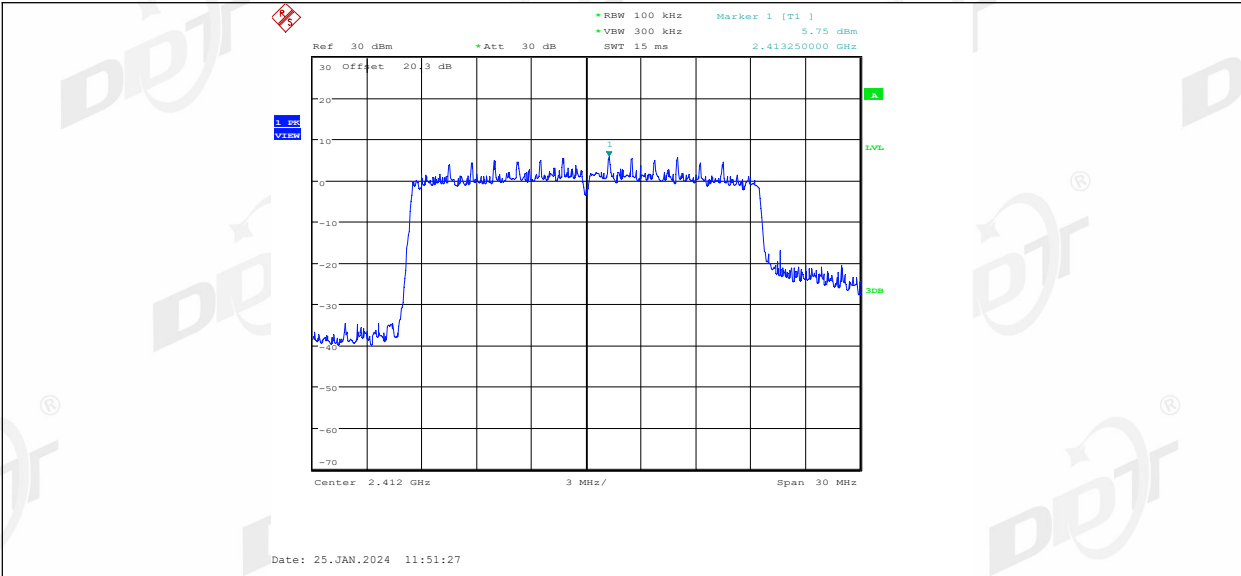


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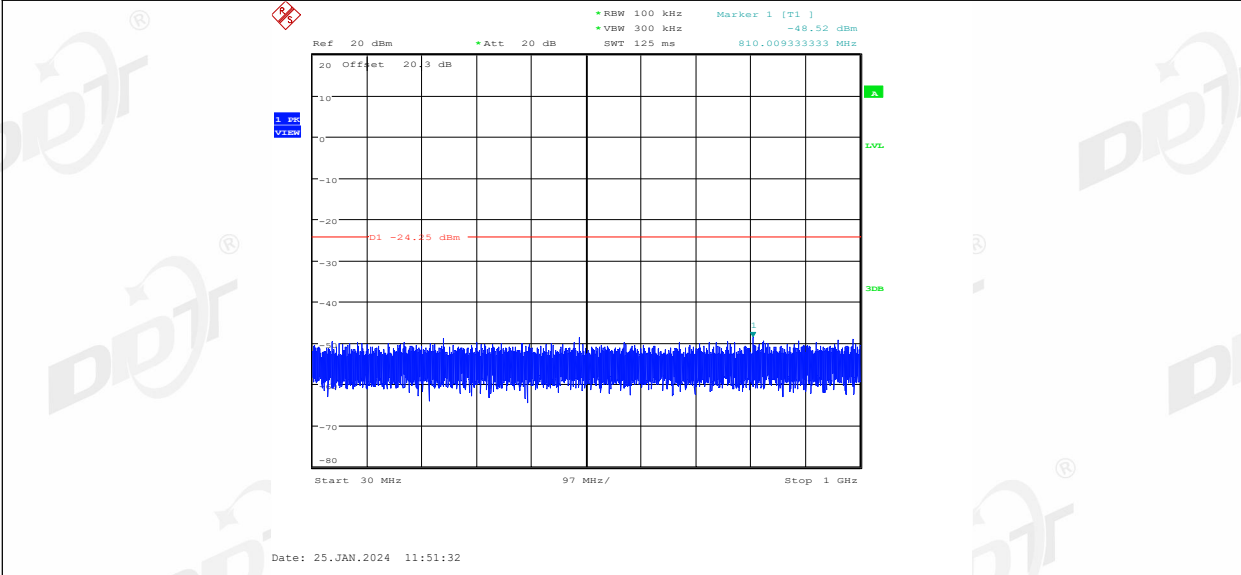


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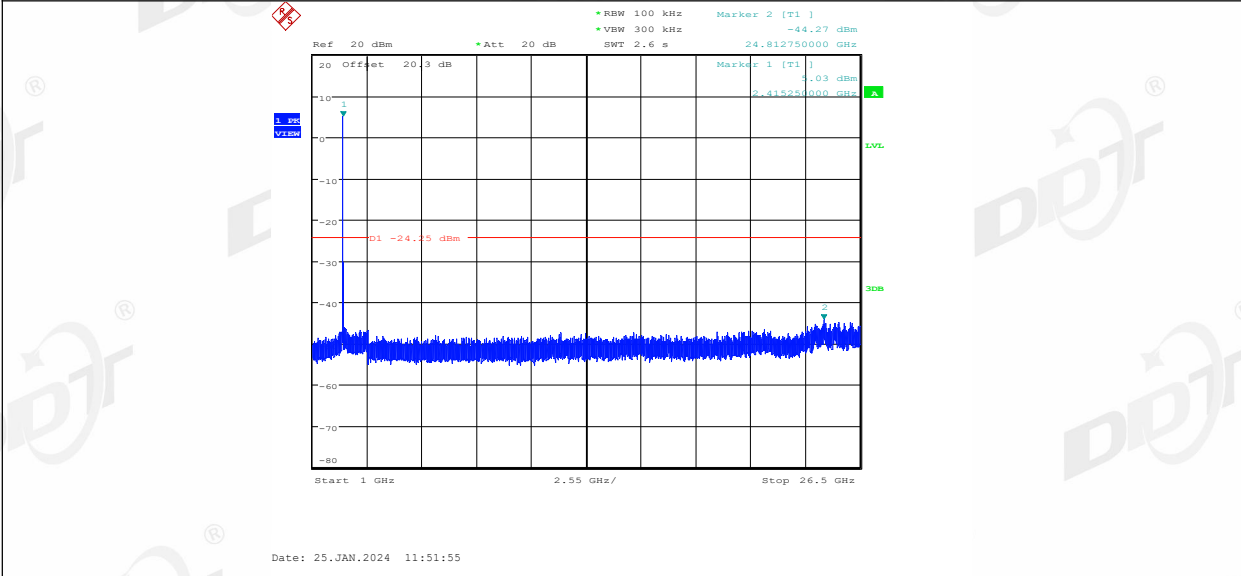




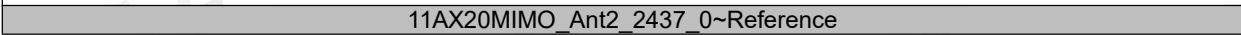
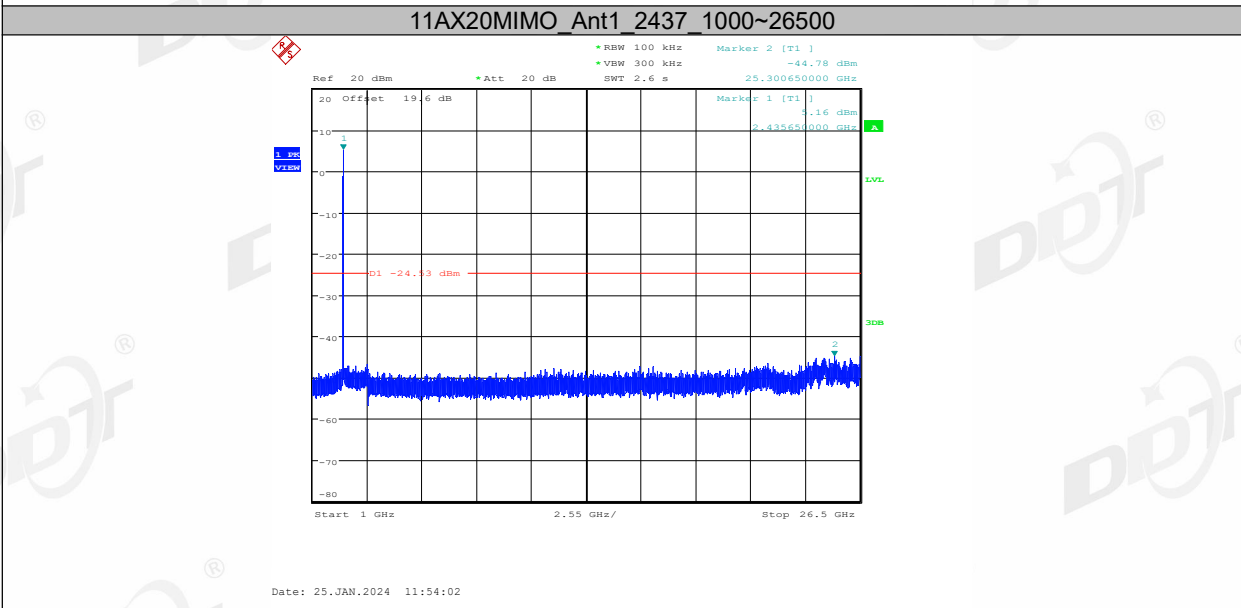
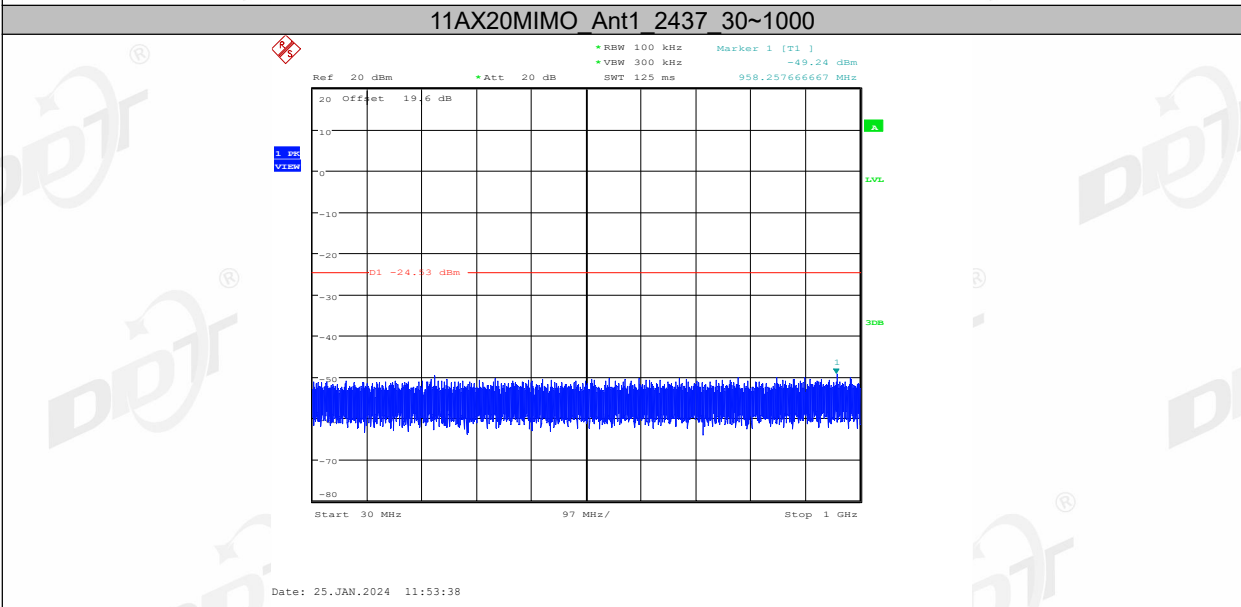
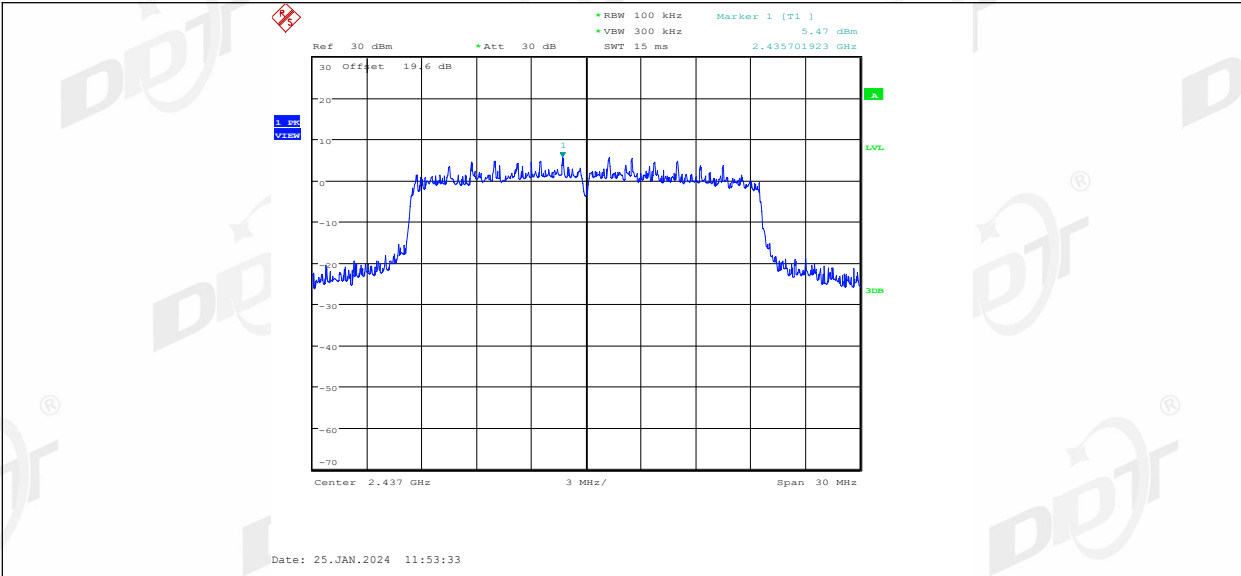
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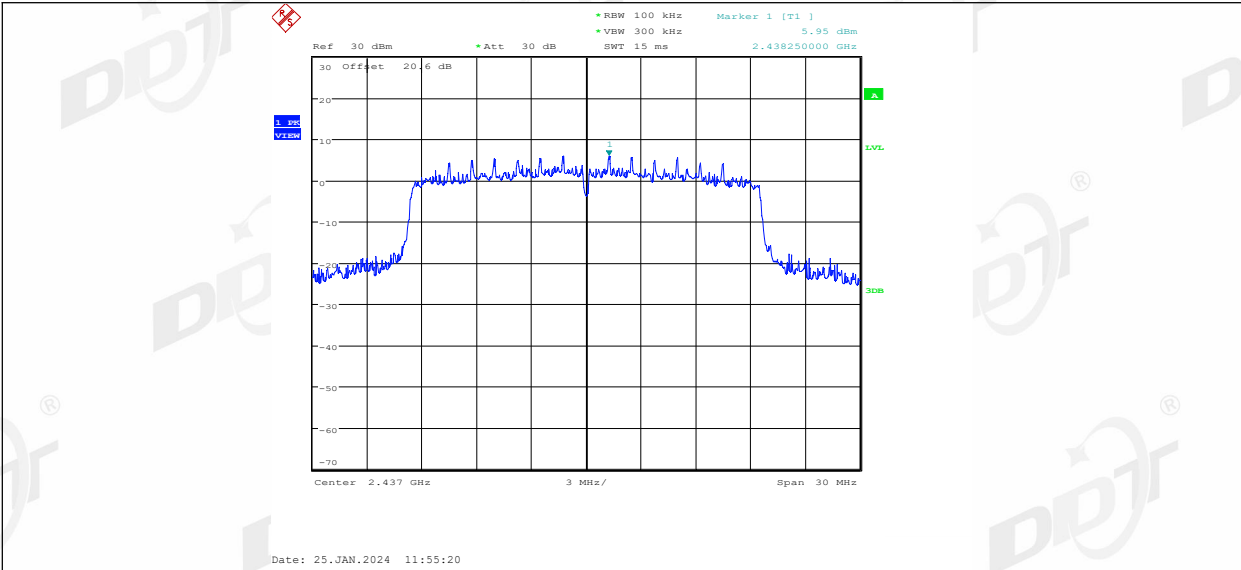


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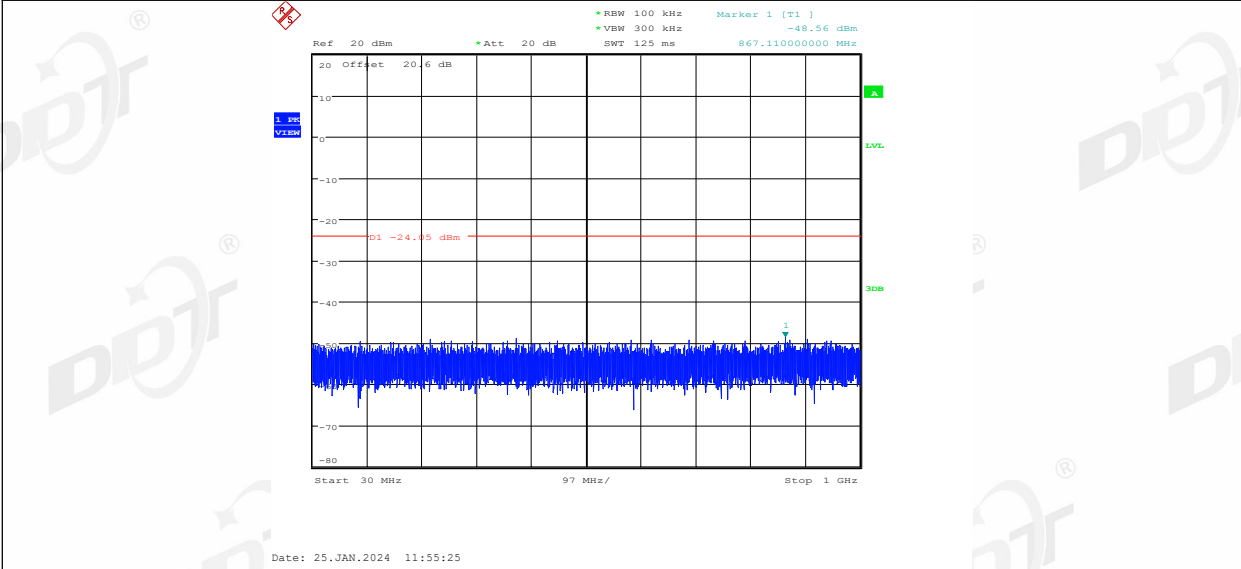


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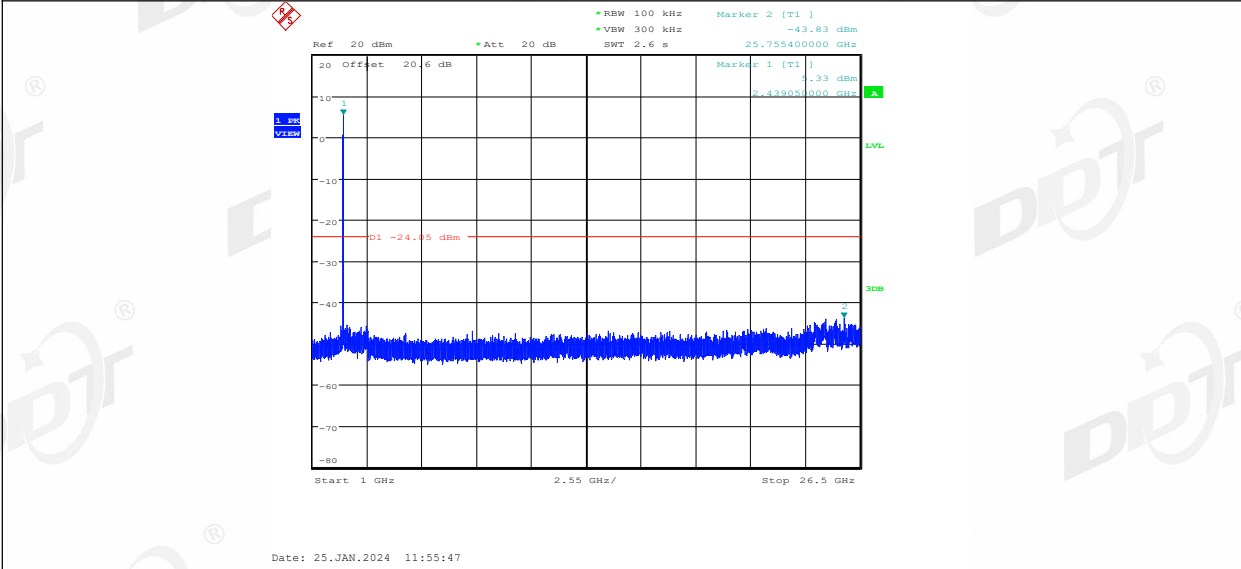




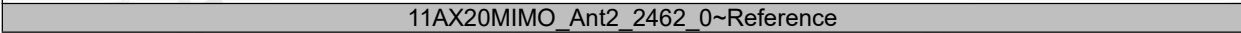
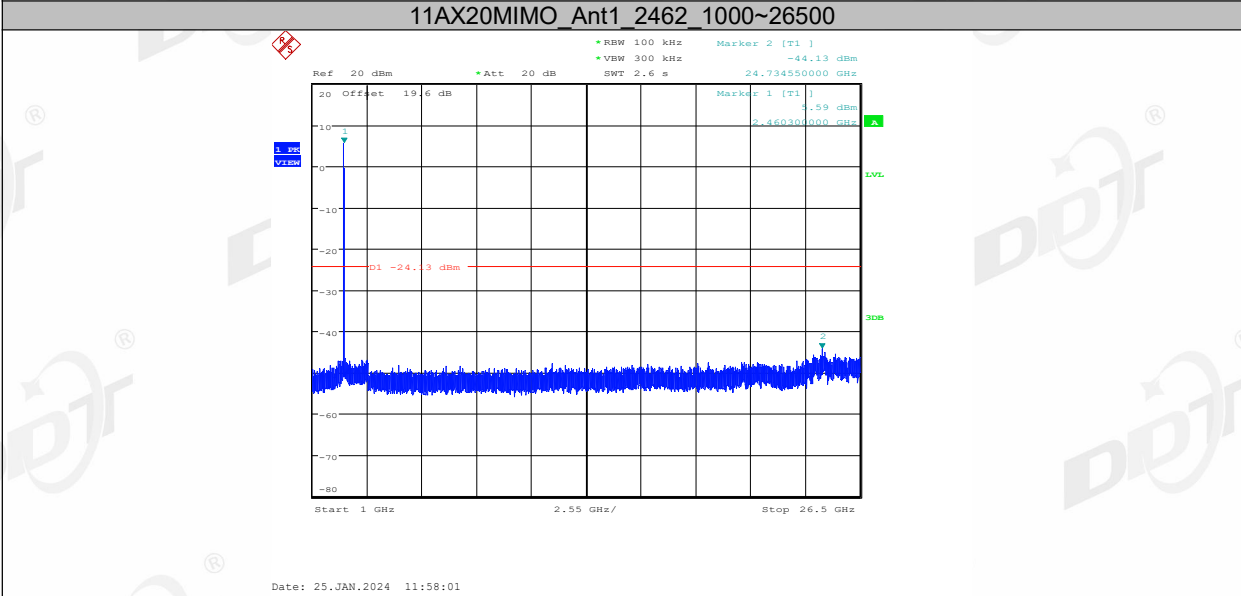
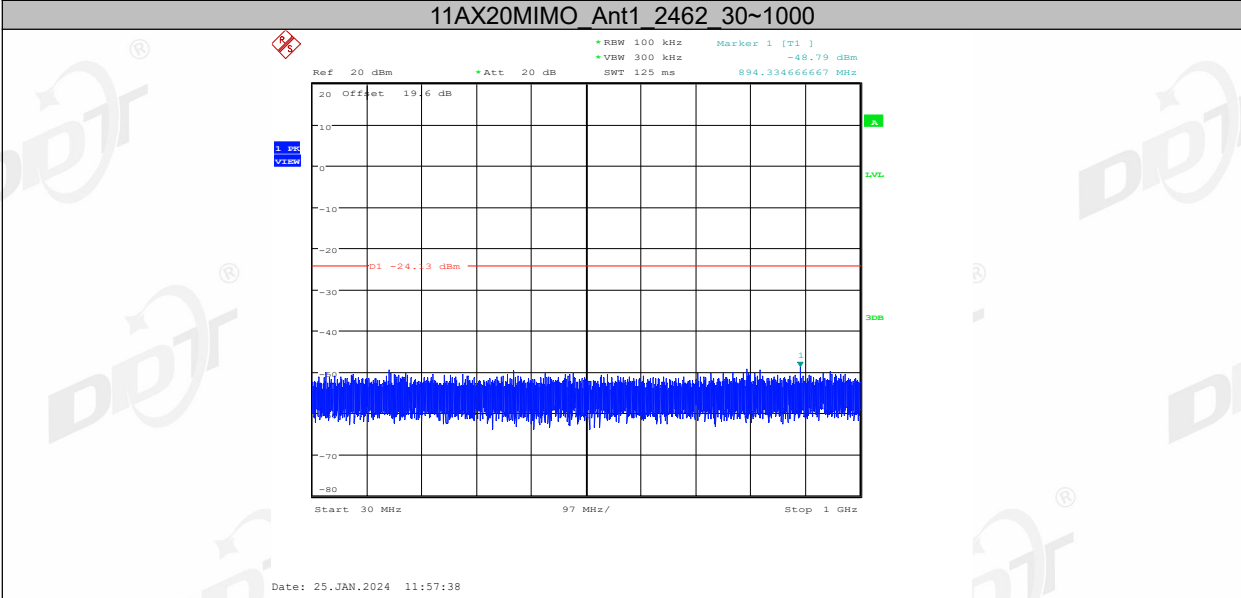
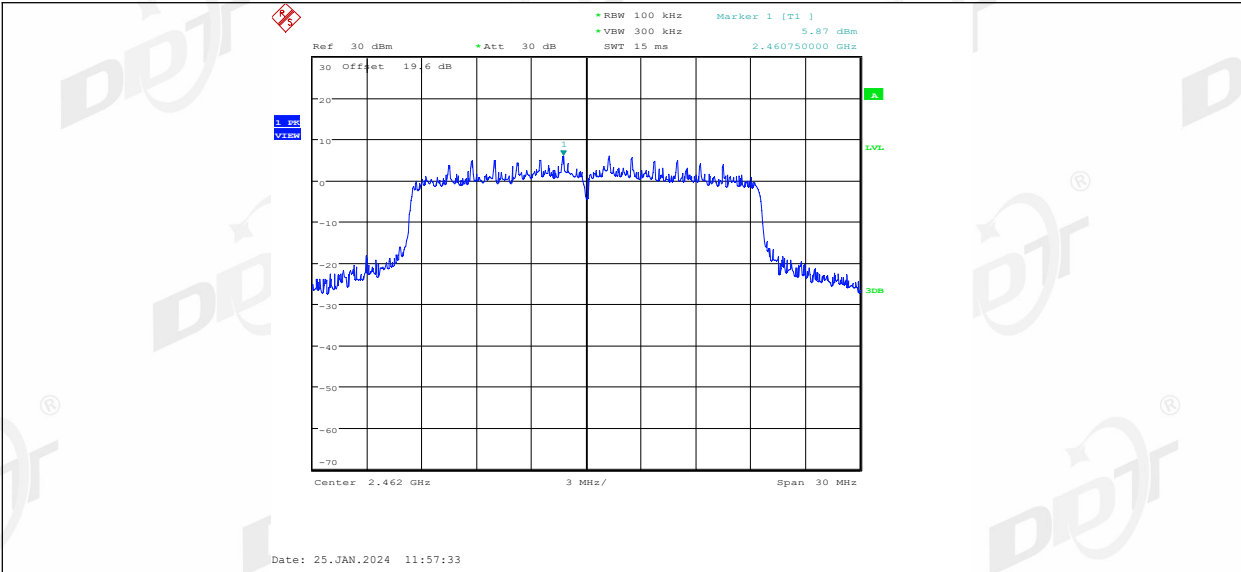
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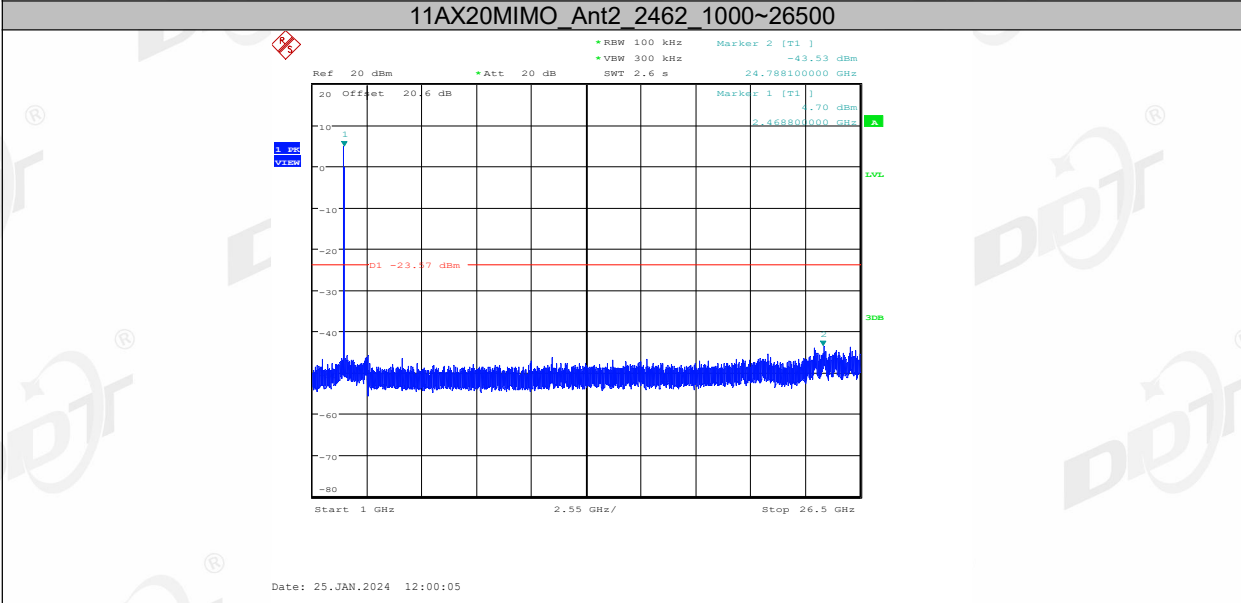
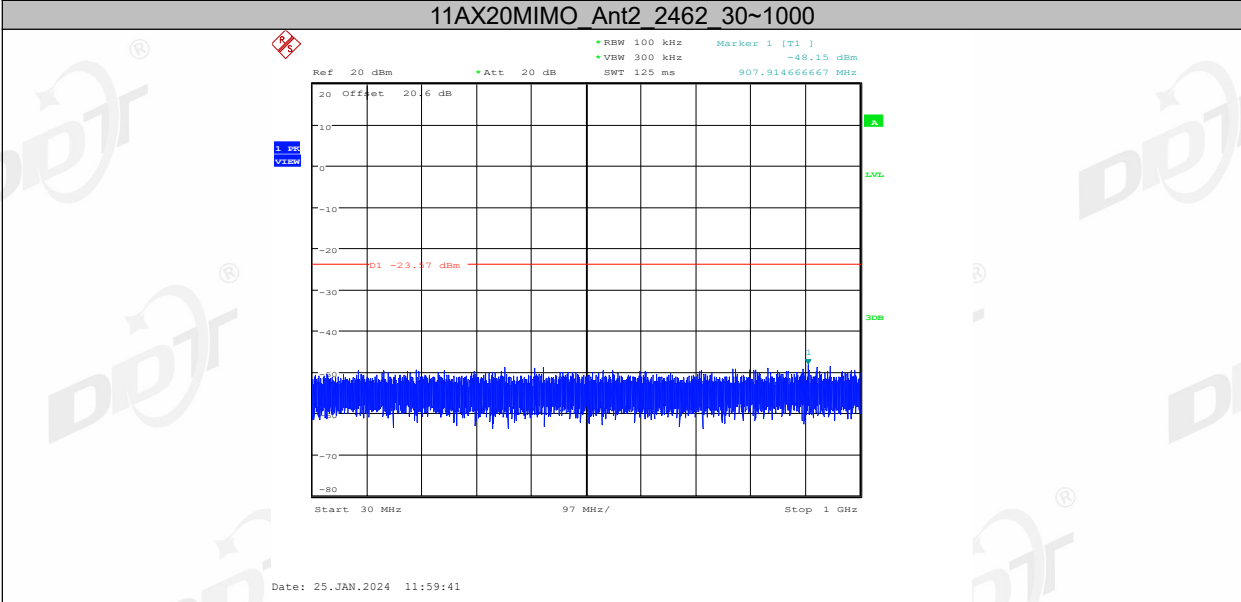
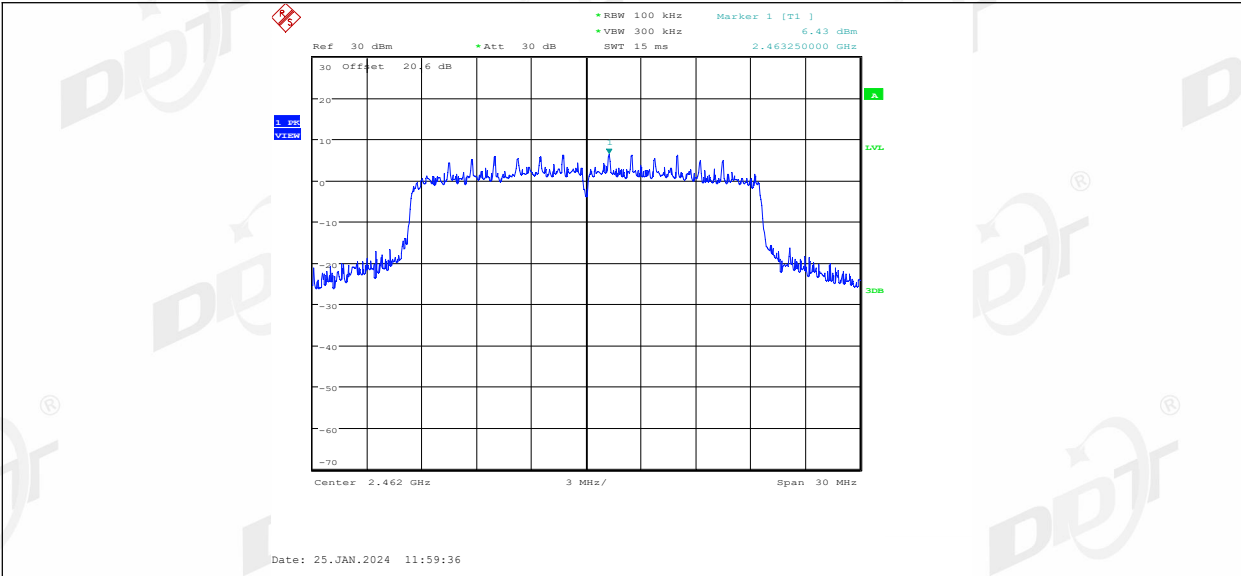


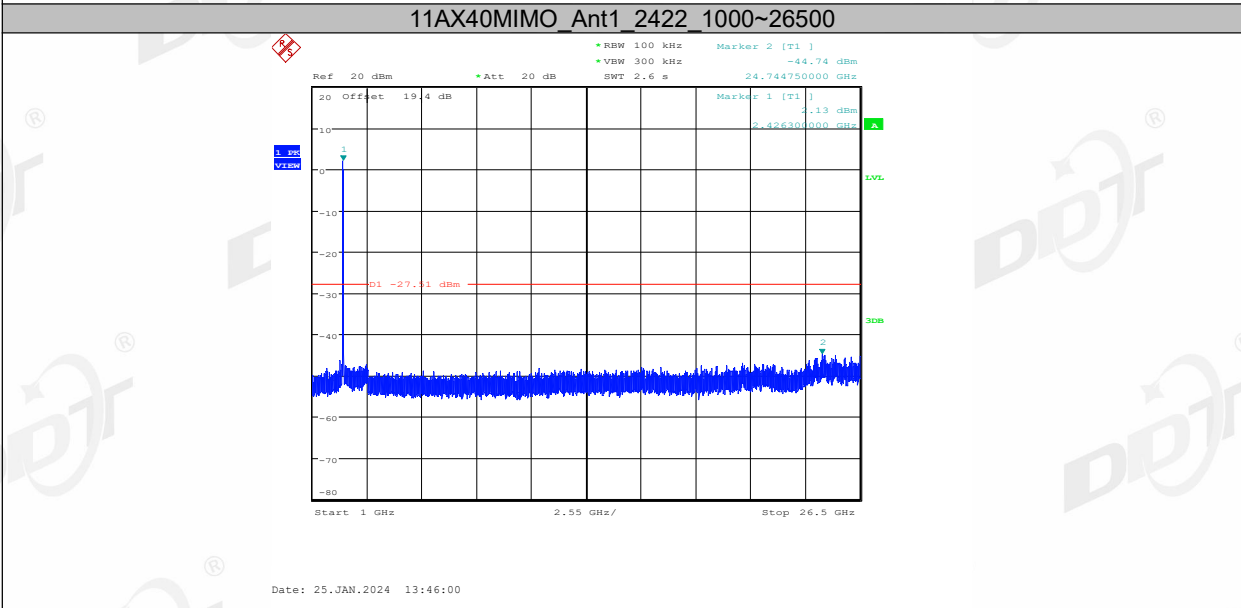
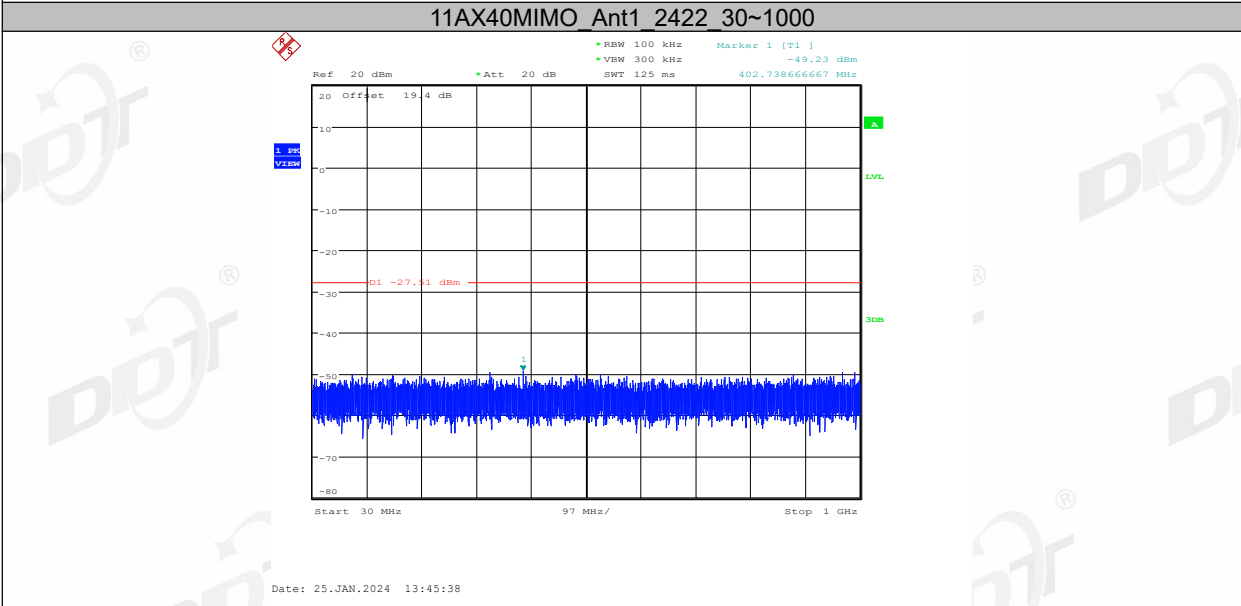
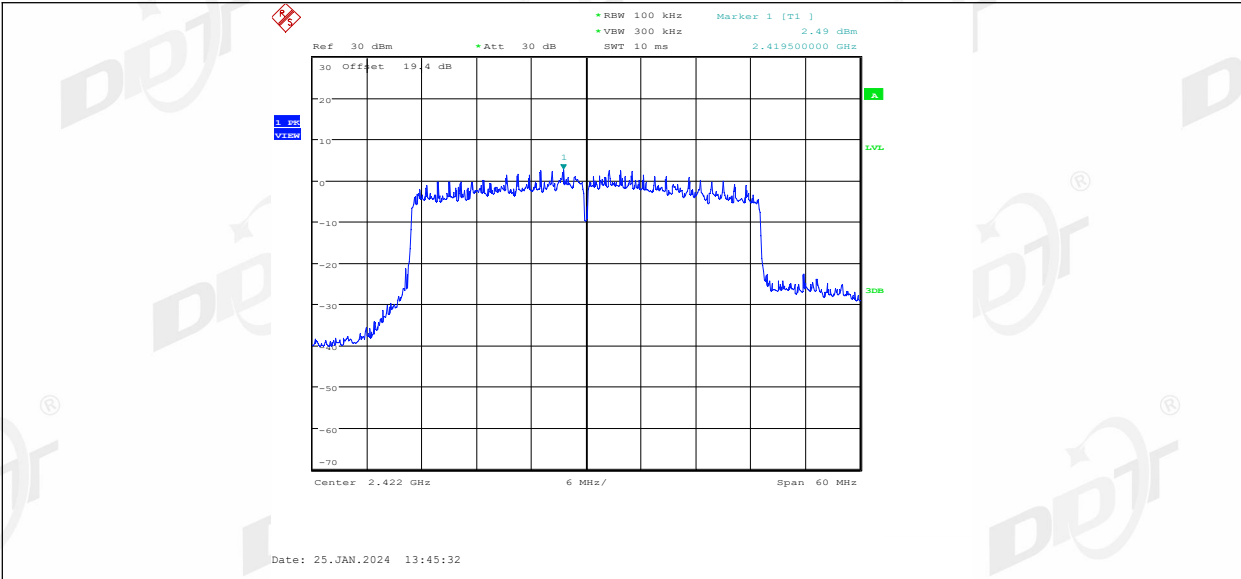
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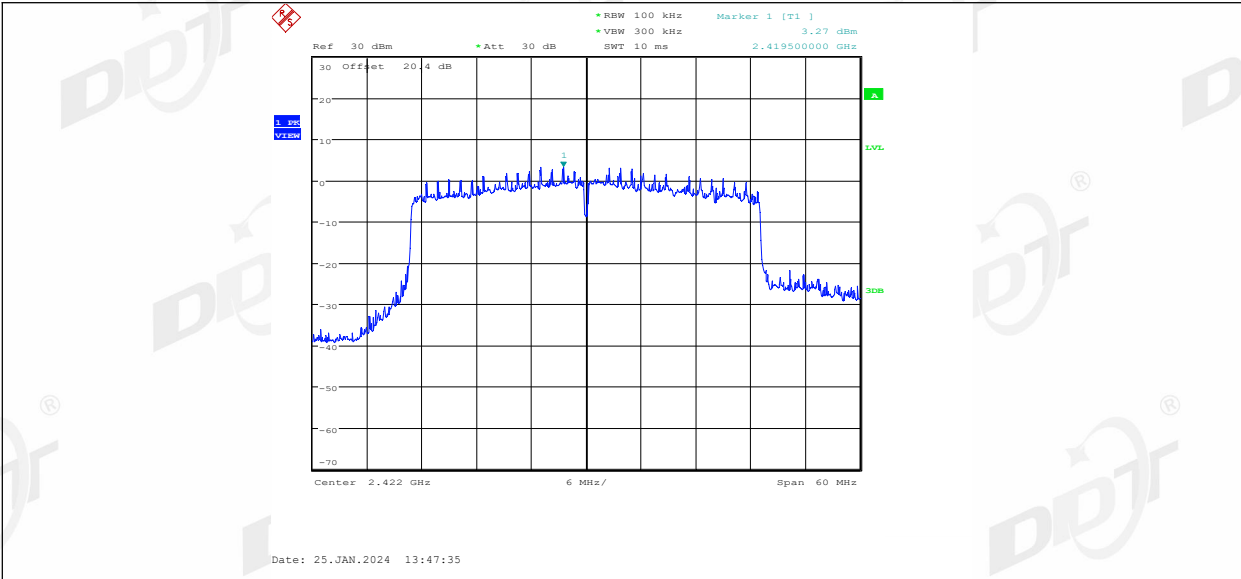
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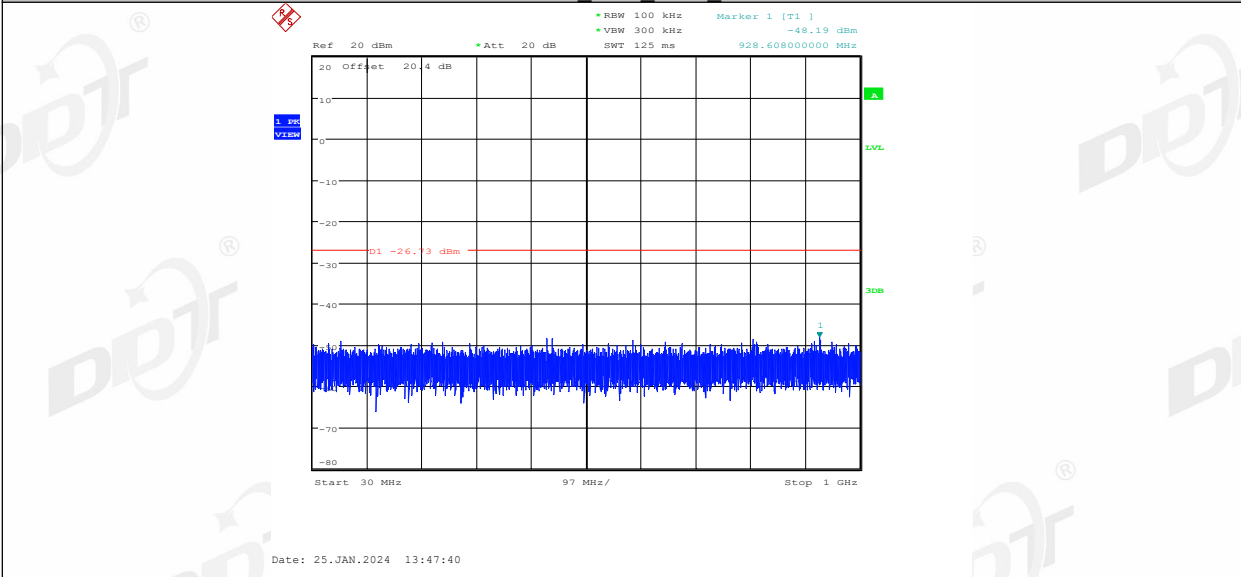




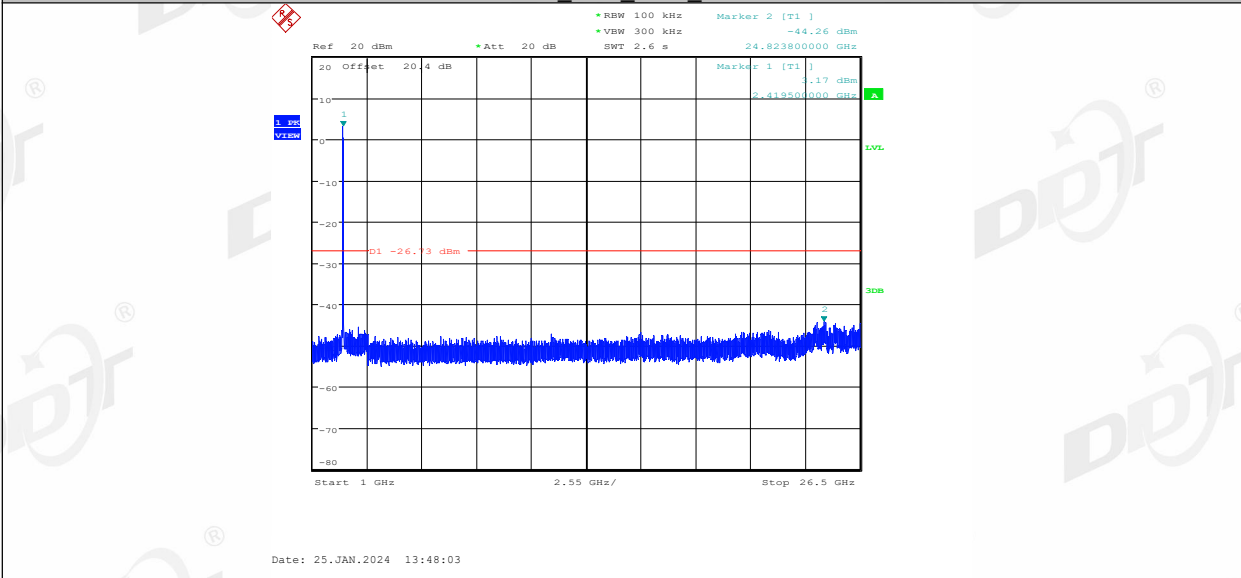
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11AX40MIMO_Ant2_2422_30~1000



11AX40MIMO_Ant2_2422_1000~26500



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