



FCC CERTIFICATION TEST REPORT

Applicant	:	HUIZHOU MTN WEIYE TECHNOLOGY DEVELOPMENT CO.,LTD.
Address of Applicant	:	Factory 1 and Factory 2, No.1 Huaxing Avenue, Chenjiang Street, Zhongkai Hi-tech Zone, Huizhou
Manufacturer	:	HUIZHOU MTN WEIYE TECHNOLOGY DEVELOPMENT CO.,LTD.
Address of Manufacturer	:	Factory 1 and Factory 2, No.1 Huaxing Avenue, Chenjiang Street, Zhongkai Hi-tech Zone, Huizhou
Equipment under Test	:	Dual-band WiFi6 AX3000 Router
Model No.	:	Flow AX3006
FCC ID	:	2A7EI-AX3006
Test Standard(s)	:	FCC Rules and Regulations Part 15 Subpart C, ANSI C63.10:2013
Report No.	:	DDT-RE24052212-2E01
Issue Date	:	2024/07/30
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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Test Standard Used:
FCC Rules and Regulations Part 15 Subpart C,
ANSI C63.10:2013

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-RE24052212-2E01		
Date of Receipt:	2024/06/20	Date of Test:	2024/06/20~2024/07/29

Prepared By:

Tiger Mo

Tiger Mo/Engineer

Approved By:



Damon Hu

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	2024/07/30	

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)	/	Pass
2	Peak Output Power	FCC Part 15: 15.247(b)(3)	/	Pass
3	Power Spectral Density	FCC Part 15:15.247(e)	/	Pass
4	RF Conducted Spurious Emissions	FCC Part 15: 15.247(d)	/	Pass
5	Radiated Emission	FCC Part 15: 15.205, FCC Part 15: 15.209, FCC Part 15: 15.247(d)	/	Pass
6	Band Edge Compliance	FCC Part 15: 15.205, FCC Part 15: 15.209, FCC Part 15: 15.247(d)	/	Pass
7	Power Line Conducted Emissions	FCC Part 15: 15.207(a)	/	Pass
8	Antenna Requirement	FCC Part 15: 15.203	/	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	: Dual-band WiFi6 AX3000 Router
Model Number	: Flow AX3006
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 12V powered by external adapter.

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	External antenna			
Max Antenna Gain(dBi)		Ant1 gain	Ant2 gain	Directional gain
	IEEE 802.11b	5.55	5.56	/
	IEEE 802.11g	5.55	5.56	/
	IEEE 802.11n HT20	5.55	5.56	8.57
	IEEE 802.11n HT40	5.55	5.56	8.57
	IEEE 802.11ax HE20	5.55	5.56	8.57
	IEEE 802.11ax HE40	5.55	5.56	8.57
Note: The EUT supports Beamforming mode, and Beamforming signals are correlated. So the Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2/2] = 8.57\text{dBi}$				

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: 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

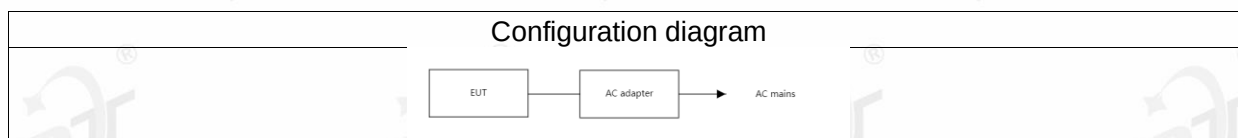
the manufacturer's specifications, the laboratory shall not be held responsible.

“☑” 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
AC Power Adapter	XIAMEN CASTEC ELECTRONIC INDUSTRY CO., LTD	MN018Q-L120150	Input: 100-240V~50/60Hz 0.45A Max, Output: DC 12.0V1.5A 12.0W
RJ45 cable	/	/	Length: 1m, Unshielded

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: putty.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	16	16	1	LCH: CH1	2412
	16	16	1	MCH: CH6	2437
	16	16	1	HCH: CH11	2462
IEEE 802.11g	16	16	6	LCH: CH1	2412
	16	16	6	MCH: CH6	2437
	16	16	6	HCH: CH11	2462
IEEE 802.11n HT20	16	16	MCS 8	LCH: CH1	2412
	16	16	MCS 8	MCH: CH6	2437
	16	16	MCS 8	HCH: CH11	2462
IEEE 802.11n HT40	14	14	MCS 8	LCH: CH3	2422
	14	14	MCS 8	MCH: CH6	2437
	14	14	MCS 8	HCH: CH9	2452
	16	16	MCS 9	LCH: CH1	2412

IEEE 802.11ax HE20	16	16	MCS 9	MCH: CH6	2437
	16	16	MCS 9	HCH: CH11	2462
IEEE 802.11ax HE40	14	14	MCS 9	LCH: CH3	2422
	14	14	MCS 9	MCH: CH6	2437
	14	14	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:

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

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

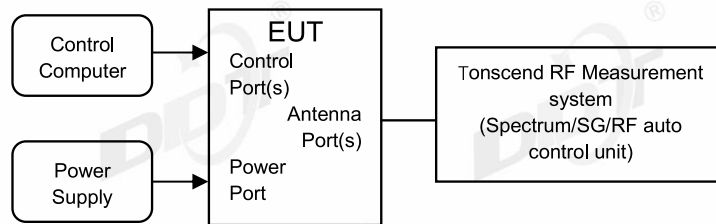
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 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	2025/03/31
Wideband Radio Communication Tester	R&S	CMW500	120259	2025/07/08
MXG Vector Signal Generator	KEYSIGHT	N5182B	MY59100192	2025/03/31
MXG Vector Signal Generator	Agilent	N5182A	MY19060405	2025/03/31
RF Control Unit	Tonsend	JS0806-2	158060010	2025/03/31
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2025/04/22
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

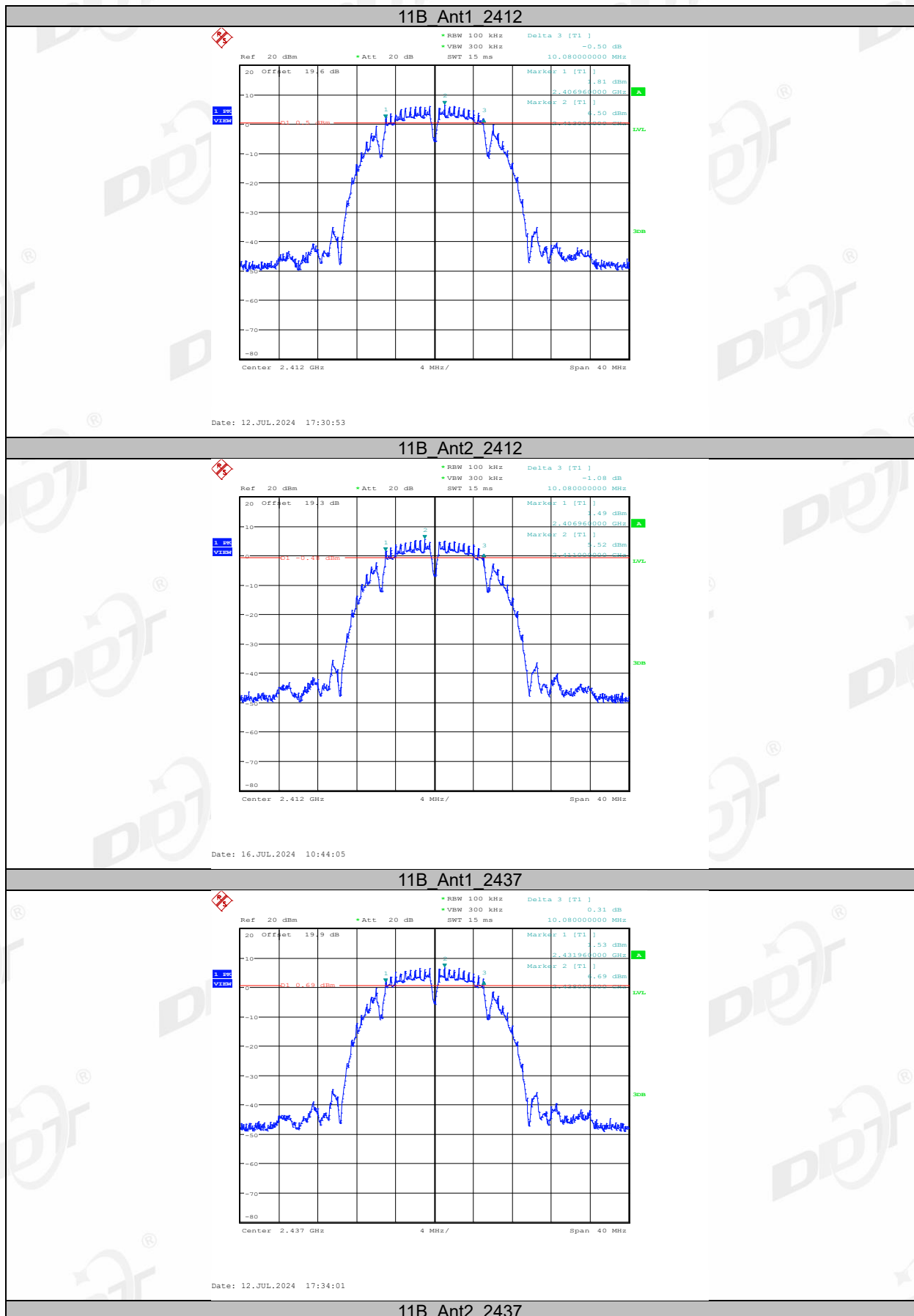
Allow the trace to stabilize, measure the 6 dB bandwidth of signal, and record the results in the report

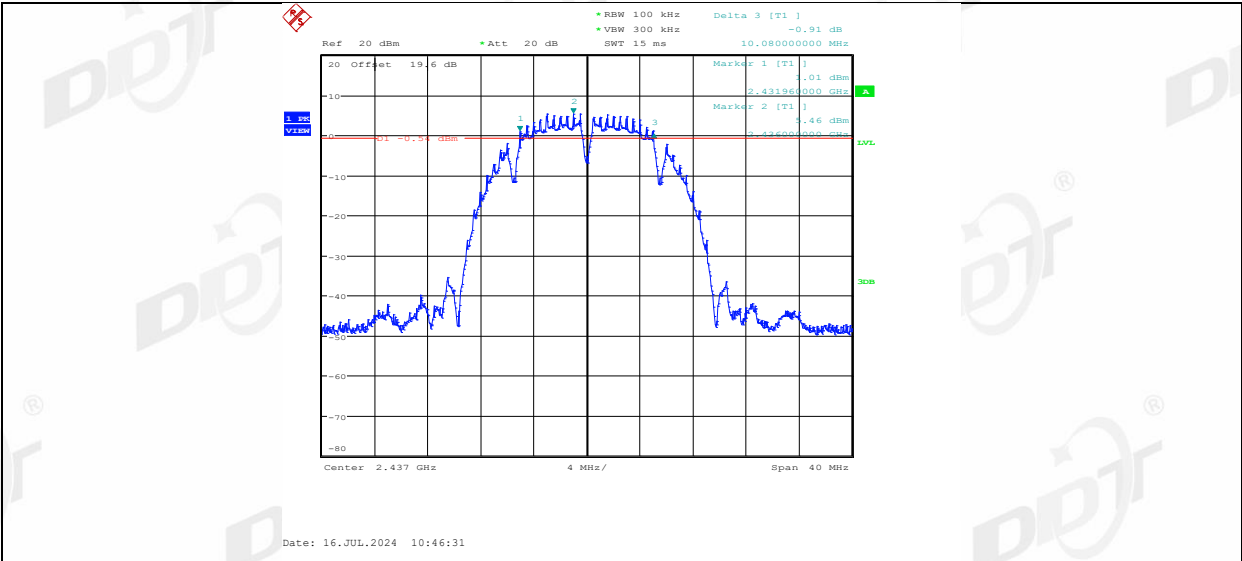
4.4. Test result

Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	26.58℃,40.0%RH	Test Date:	2024.07.12-2024.07.23
Test Power Supply:	AC120V/60Hz	Sample Number:	S24052212-001

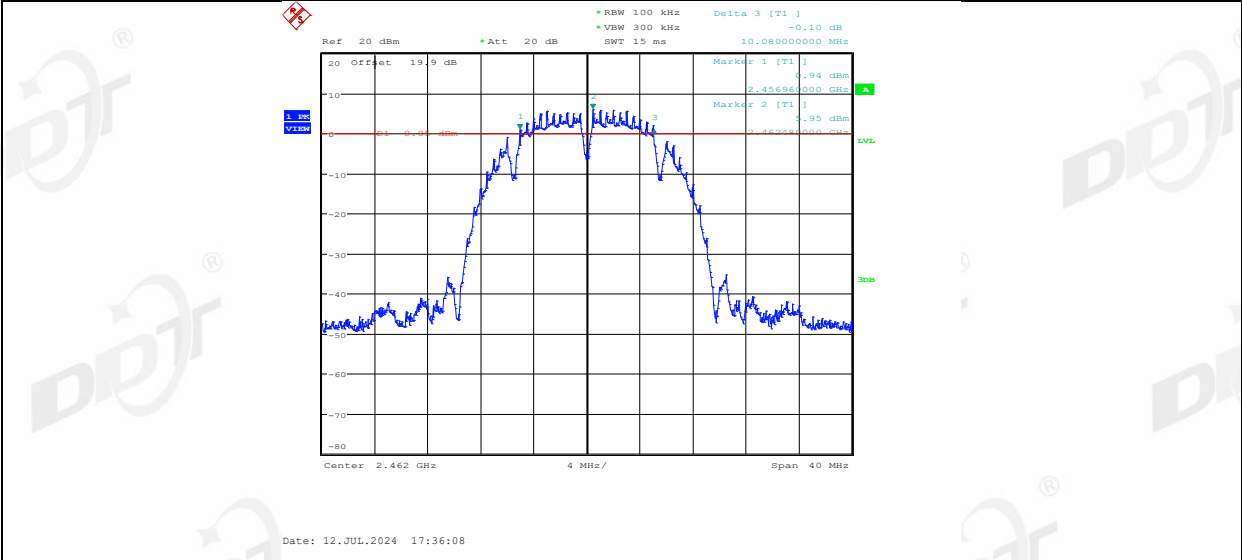
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	10.08	2406.96	2417.04	0.5	PASS
	Ant2	2412	10.08	2406.96	2417.04	0.5	PASS
	Ant1	2437	10.08	2431.96	2442.04	0.5	PASS
	Ant2	2437	10.08	2431.96	2442.04	0.5	PASS
	Ant1	2462	10.08	2456.96	2467.04	0.5	PASS
	Ant2	2462	10.08	2456.96	2467.04	0.5	PASS
11G	Ant1	2412	15.08	2404.44	2419.52	0.5	PASS
	Ant2	2412	15.12	2404.44	2419.56	0.5	PASS
	Ant1	2437	15.08	2429.48	2444.56	0.5	PASS
	Ant2	2437	15.08	2429.48	2444.56	0.5	PASS
	Ant1	2462	15.08	2454.44	2469.52	0.5	PASS
	Ant2	2462	15.12	2454.44	2469.56	0.5	PASS
11N20MI MO	Ant1	2412	15.04	2404.44	2419.48	0.5	PASS
	Ant2	2412	15.64	2403.88	2419.52	0.5	PASS
	Ant1	2437	15.12	2429.44	2444.56	0.5	PASS
	Ant2	2437	15.72	2428.84	2444.56	0.5	PASS
	Ant1	2462	15.12	2454.44	2469.56	0.5	PASS
	Ant2	2462	15.68	2453.84	2469.52	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	35.04	2419.48	2454.52	0.5	PASS
	Ant2	2437	35.04	2419.48	2454.52	0.5	PASS
	Ant1	2452	35.04	2434.48	2469.52	0.5	PASS
	Ant2	2452	35.04	2434.48	2469.52	0.5	PASS
11AX20M IMO	Ant1	2412	15.52	2404.44	2419.96	0.5	PASS
	Ant2	2412	15.08	2404.44	2419.52	0.5	PASS
	Ant1	2437	15.88	2429.04	2444.92	0.5	PASS
	Ant2	2437	15.12	2429.44	2444.56	0.5	PASS
	Ant1	2462	15.88	2454.04	2469.92	0.5	PASS
	Ant2	2462	15.08	2454.48	2469.56	0.5	PASS
11AX40M IMO	Ant1	2422	35.04	2404.48	2439.52	0.5	PASS
	Ant2	2422	35.04	2404.48	2439.52	0.5	PASS
	Ant1	2437	35.04	2419.48	2454.52	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

4.5. Test graphs

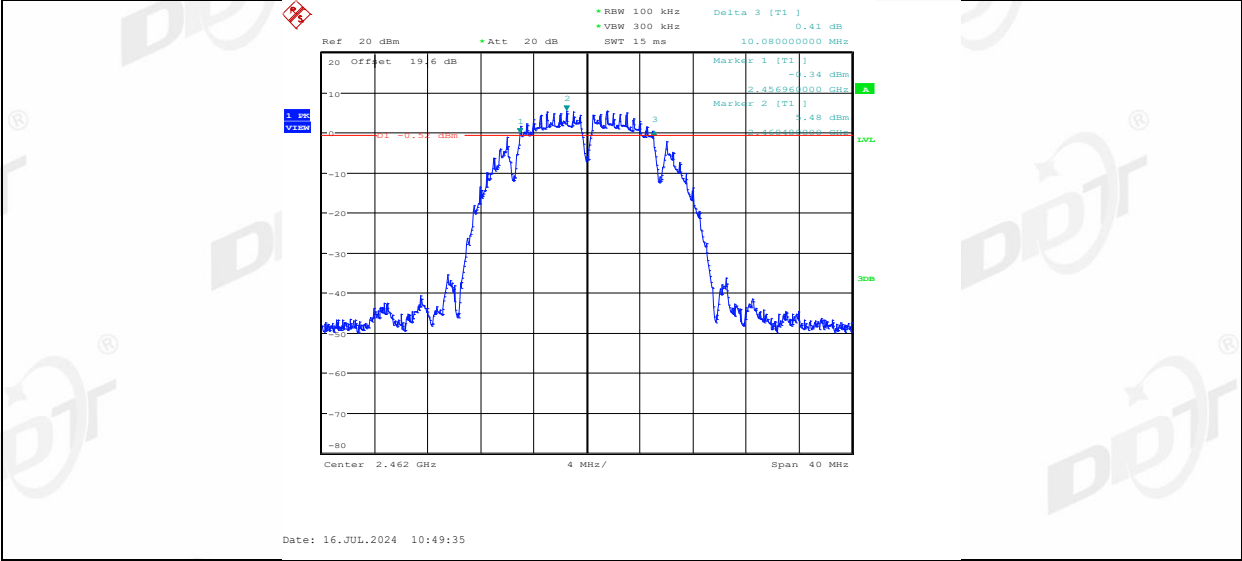




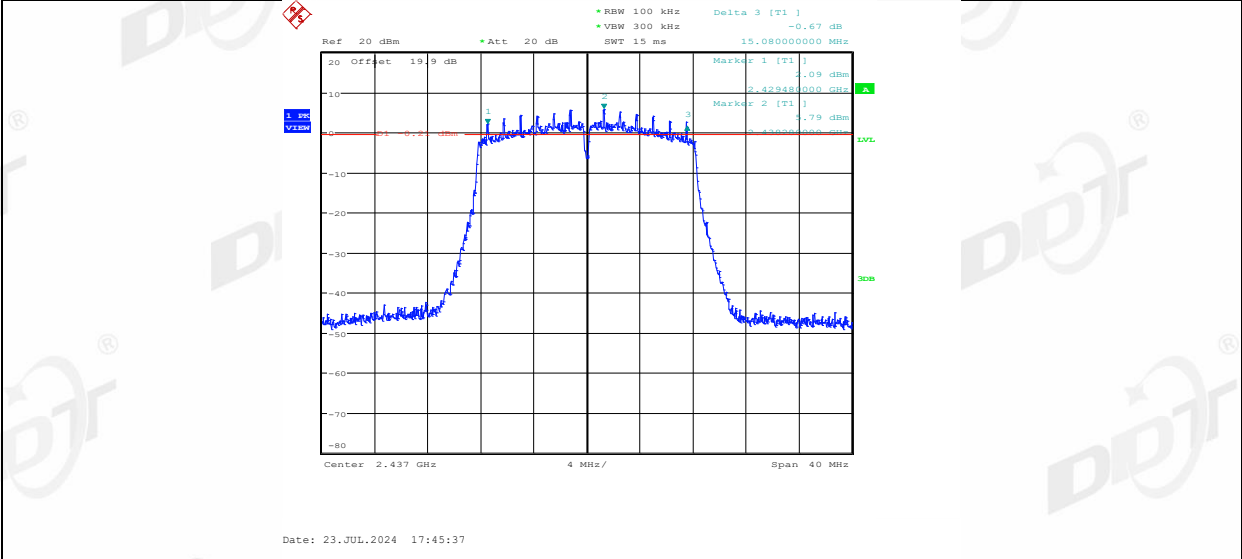
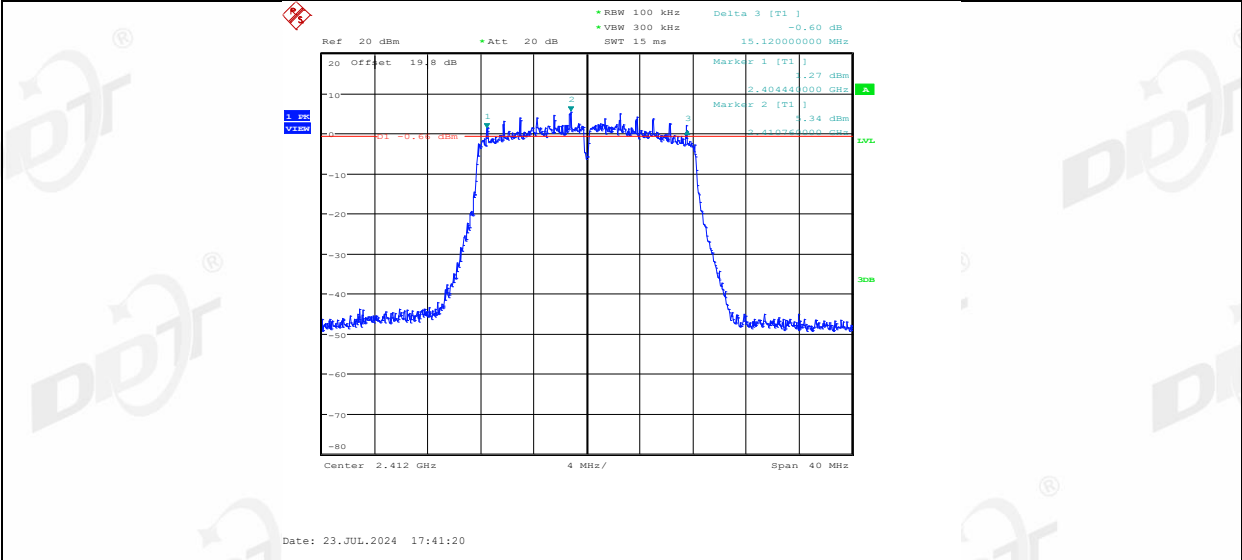
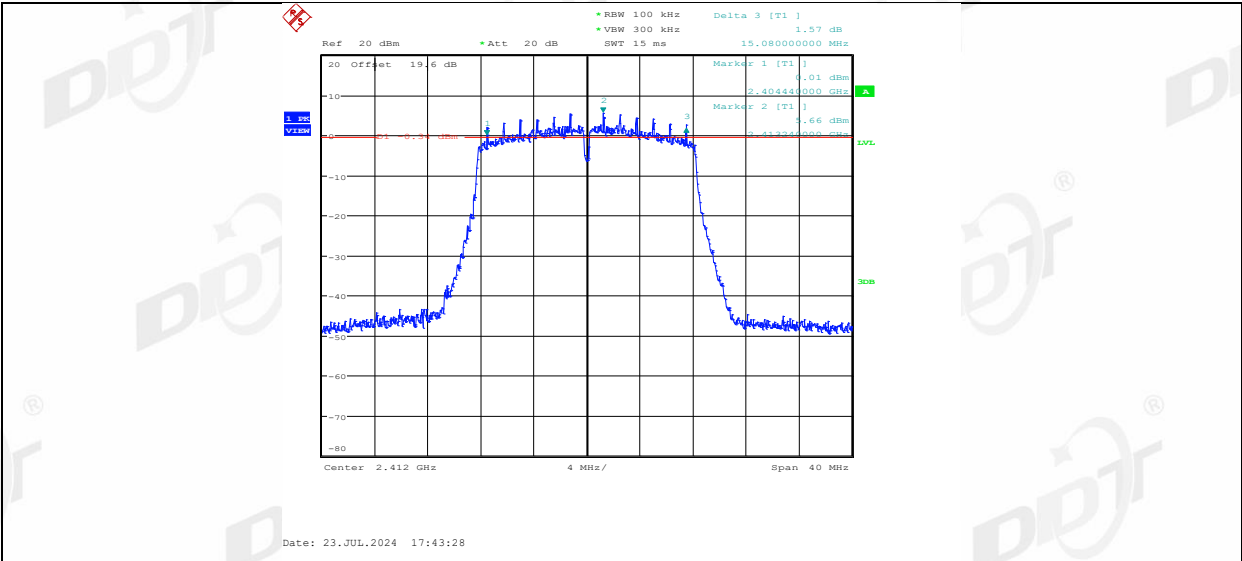
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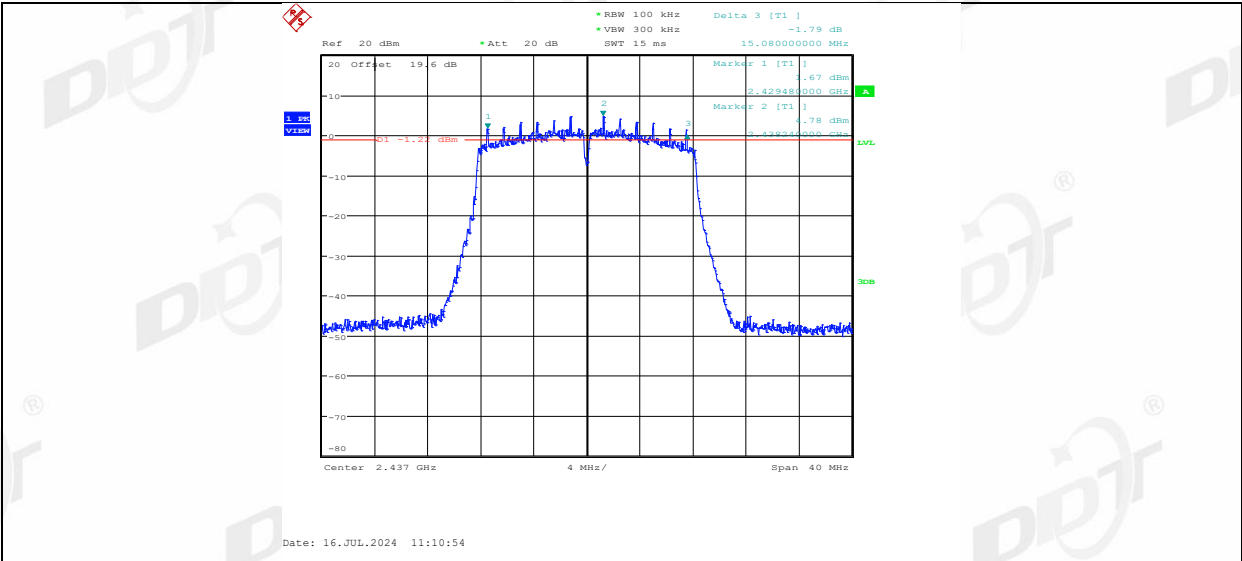


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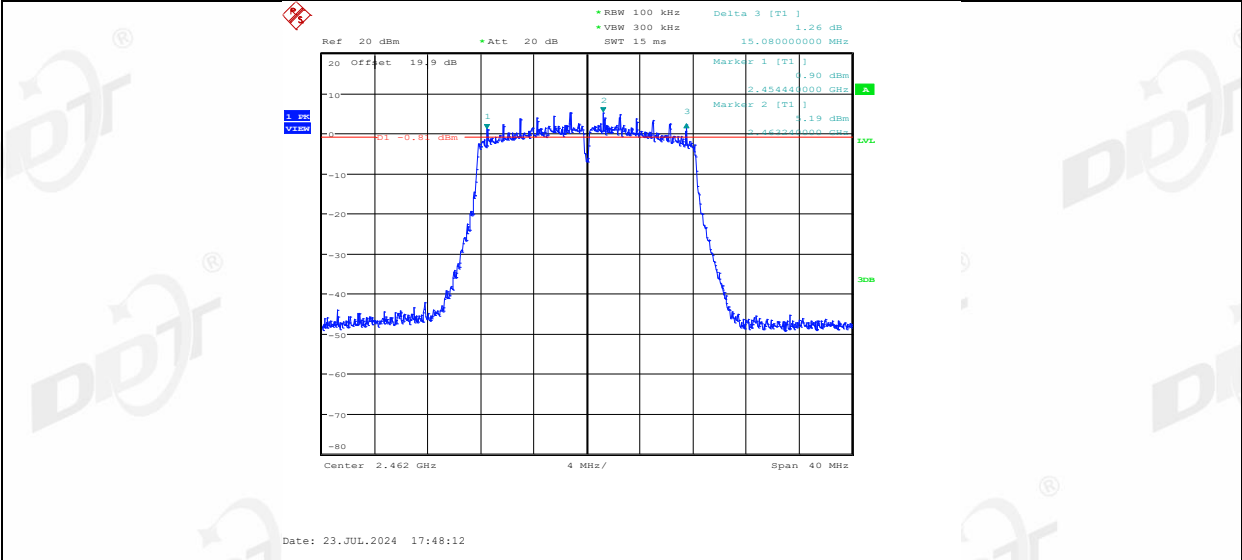


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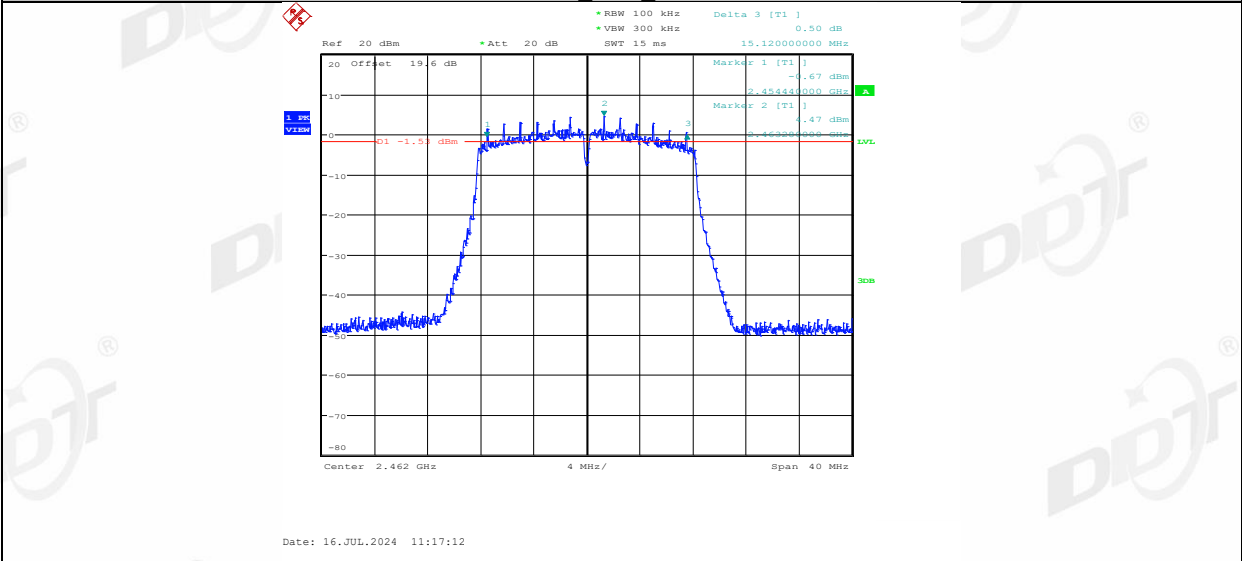




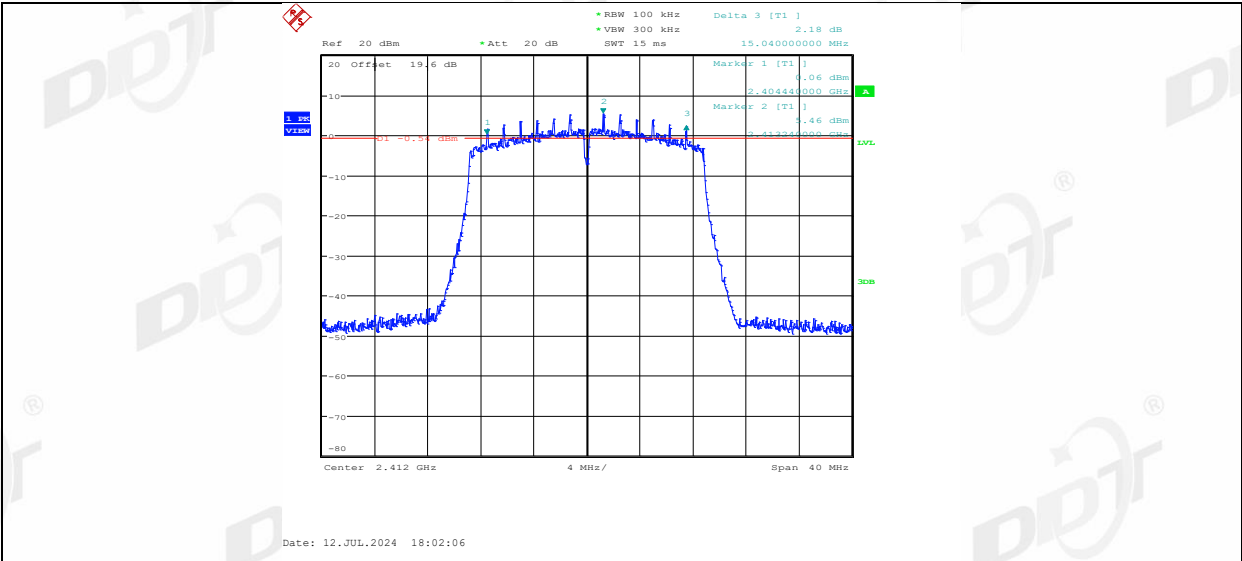
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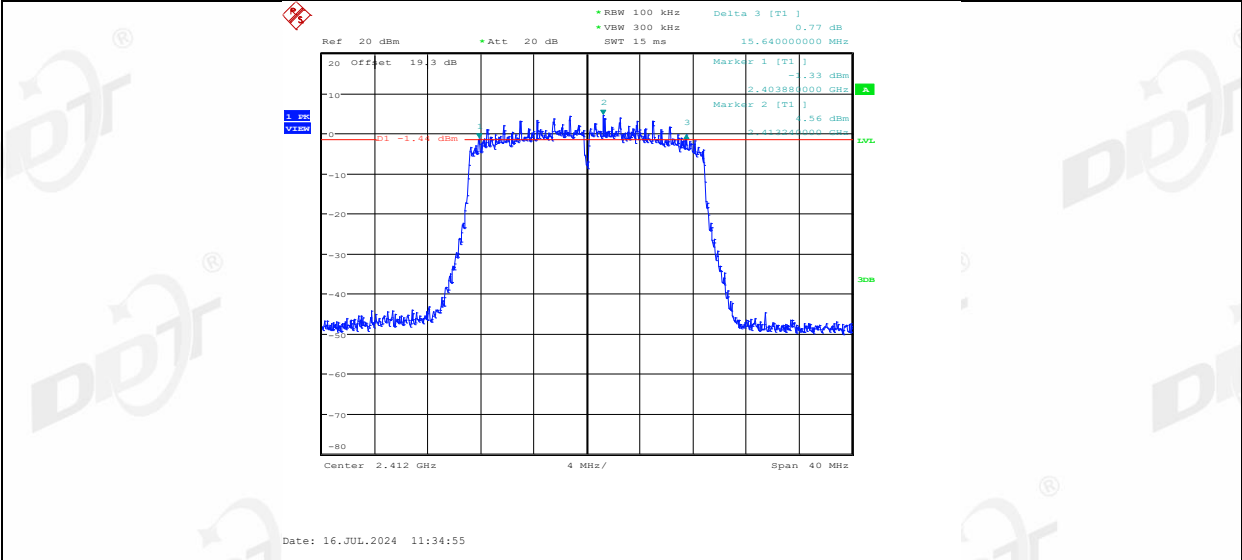
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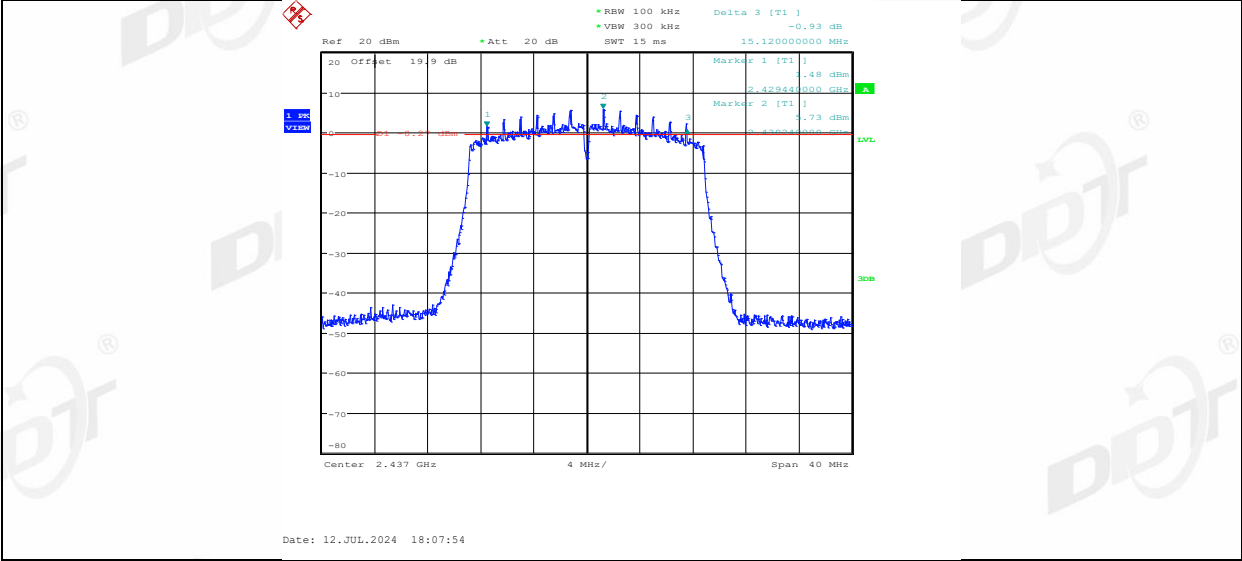
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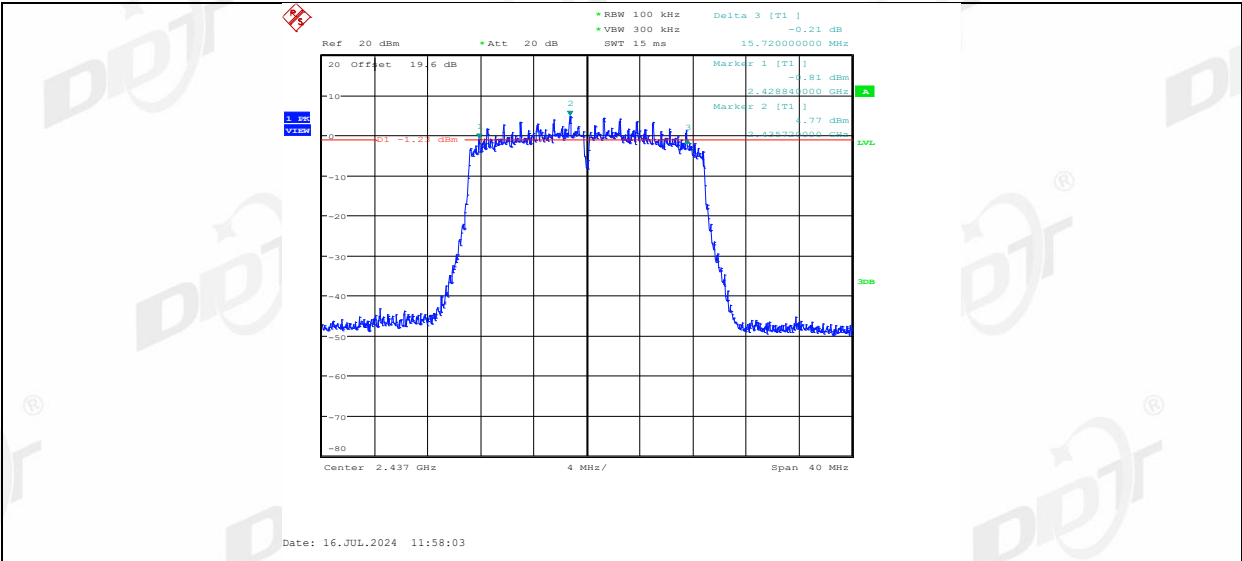
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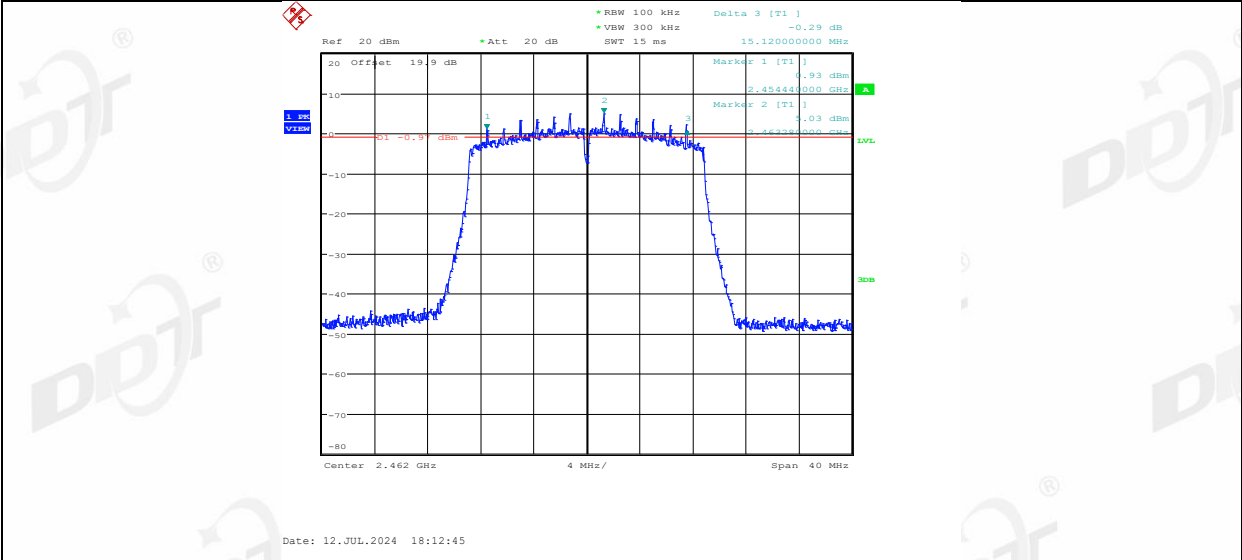
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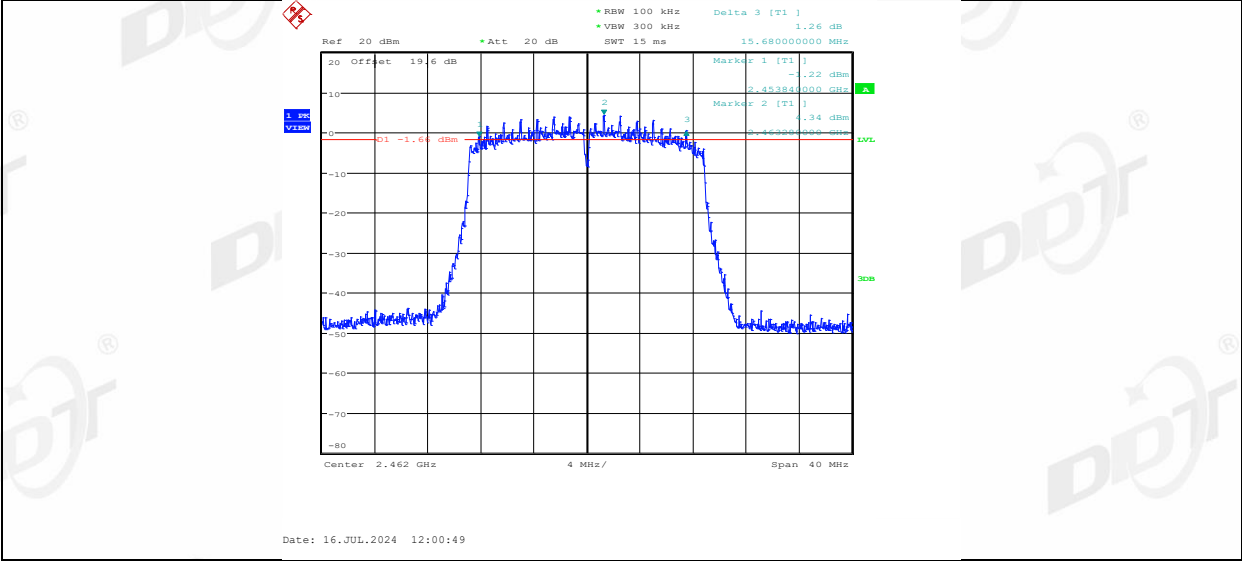
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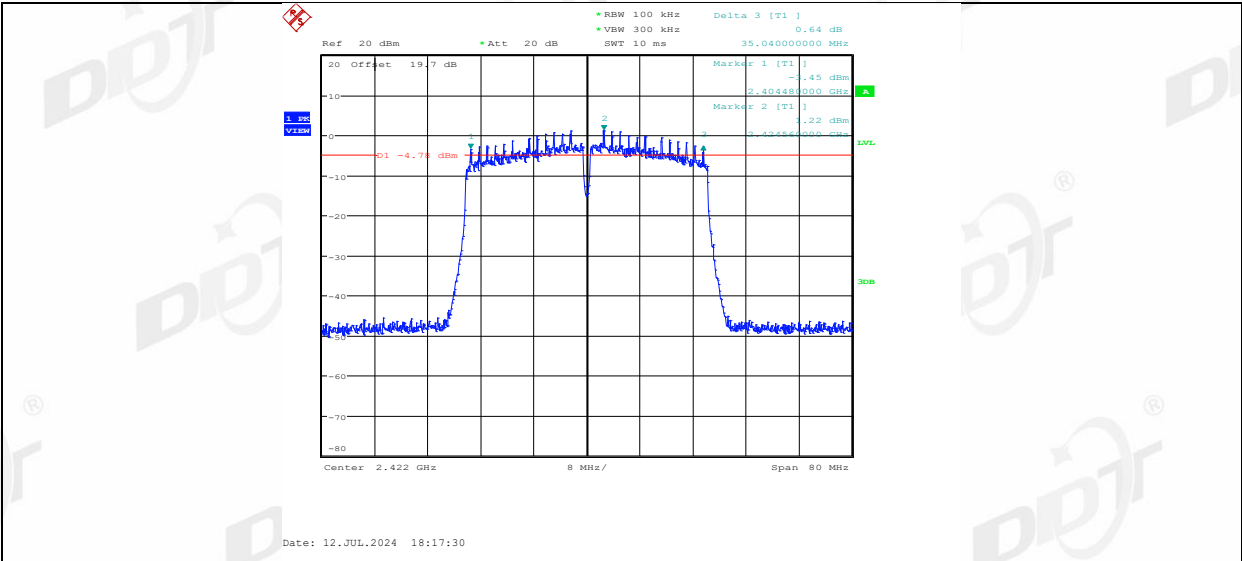
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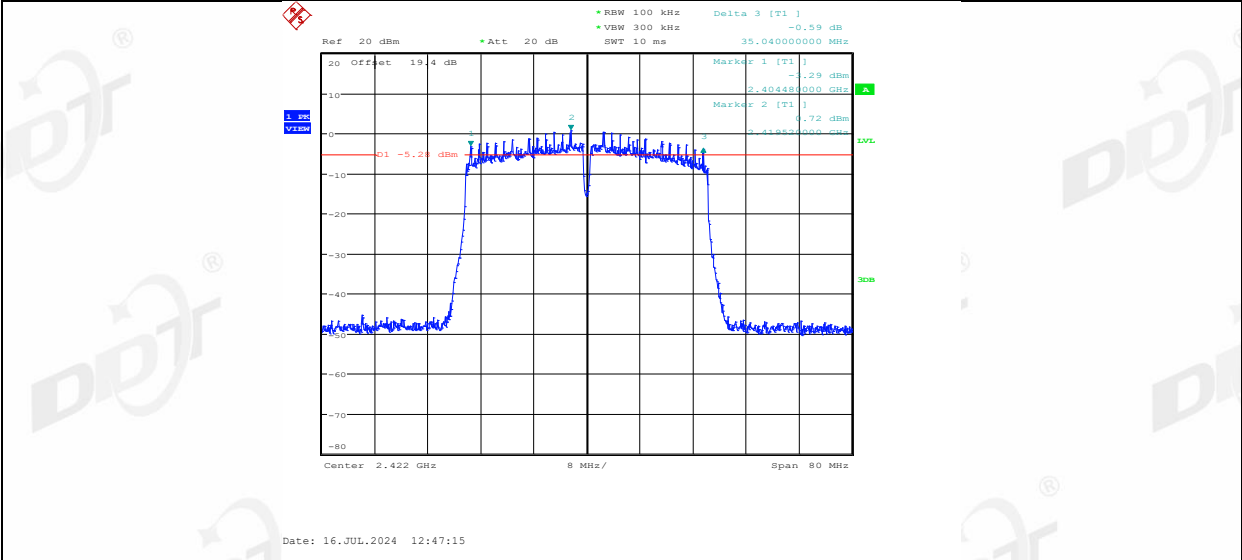
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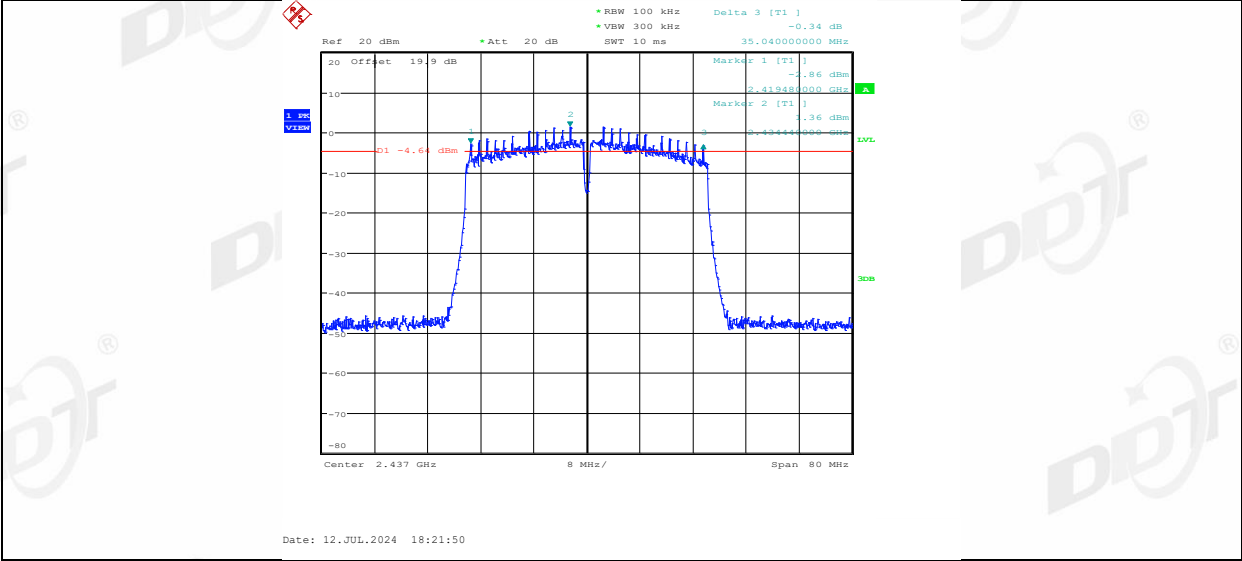
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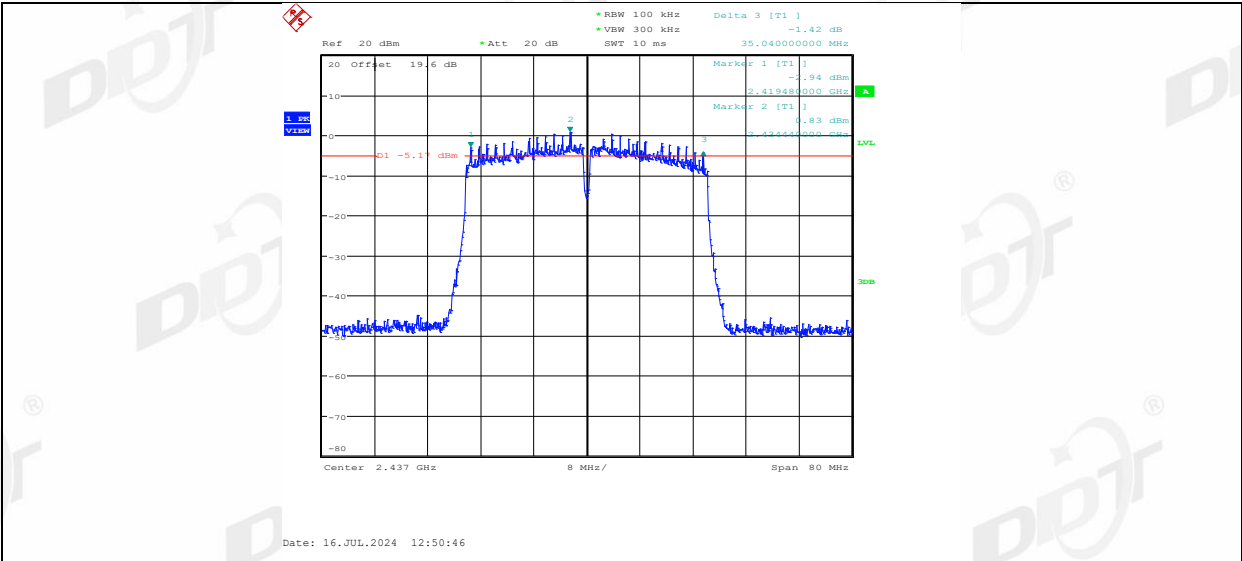
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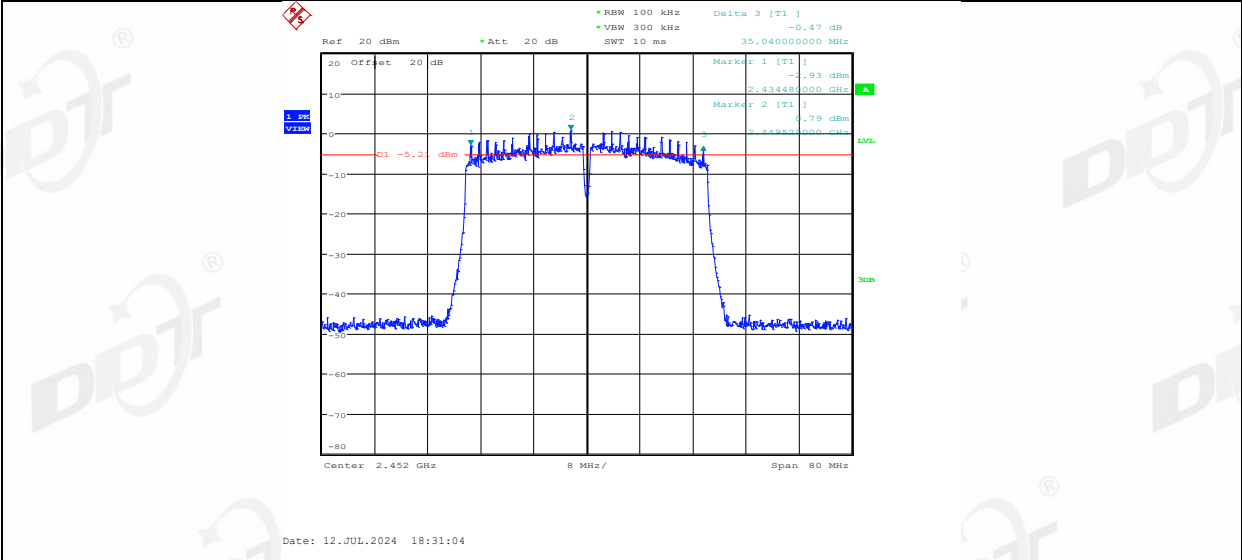
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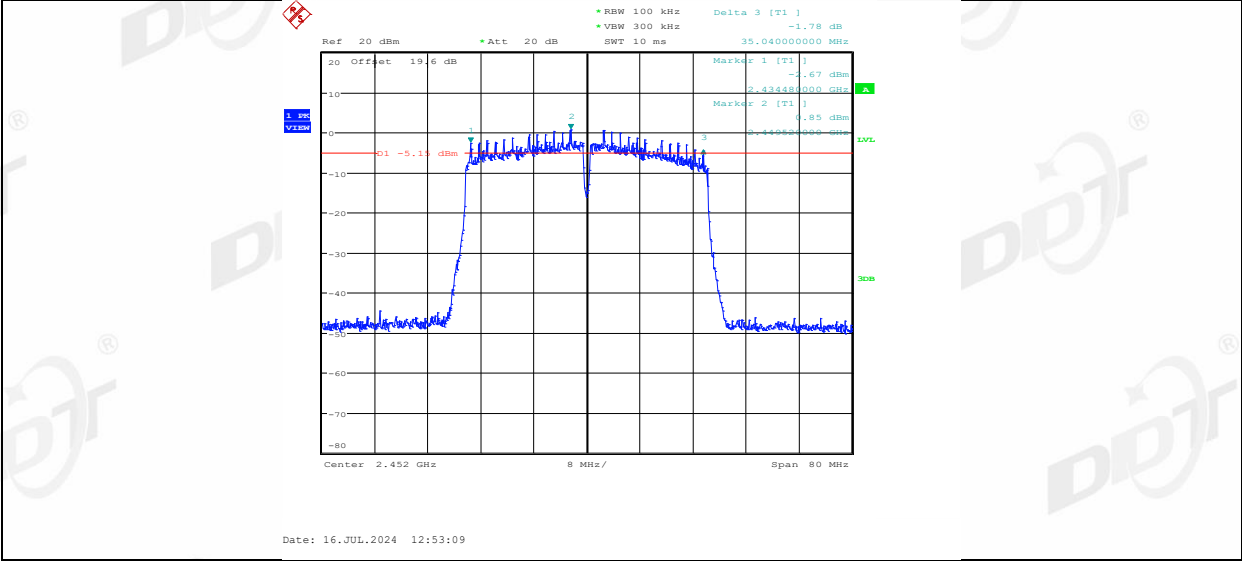
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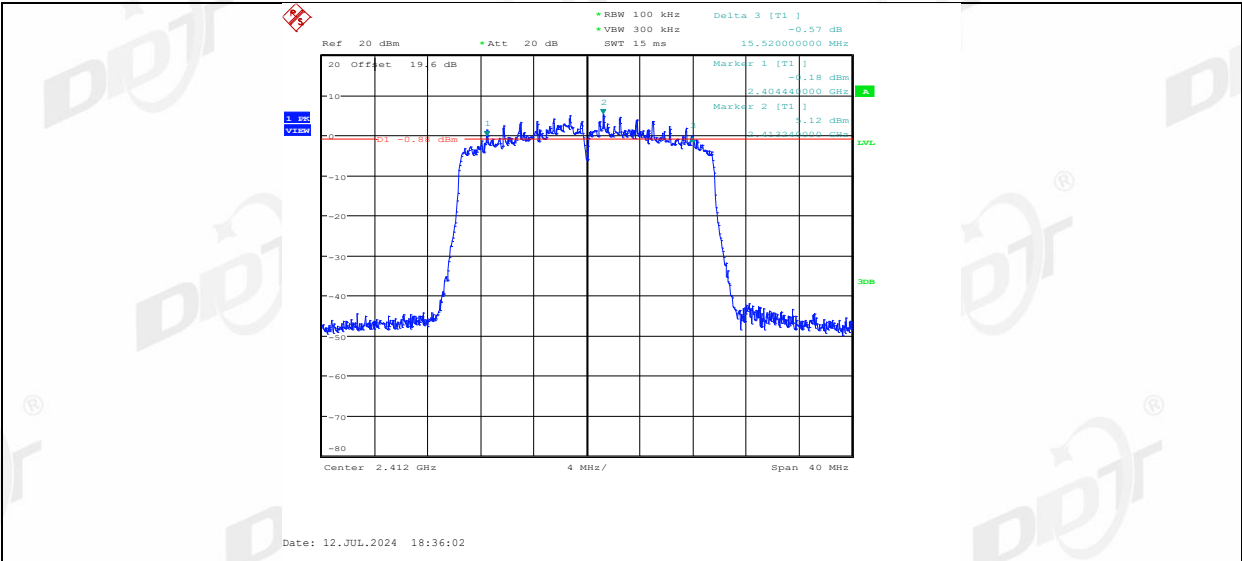
11N40MIMO_Ant1_2452



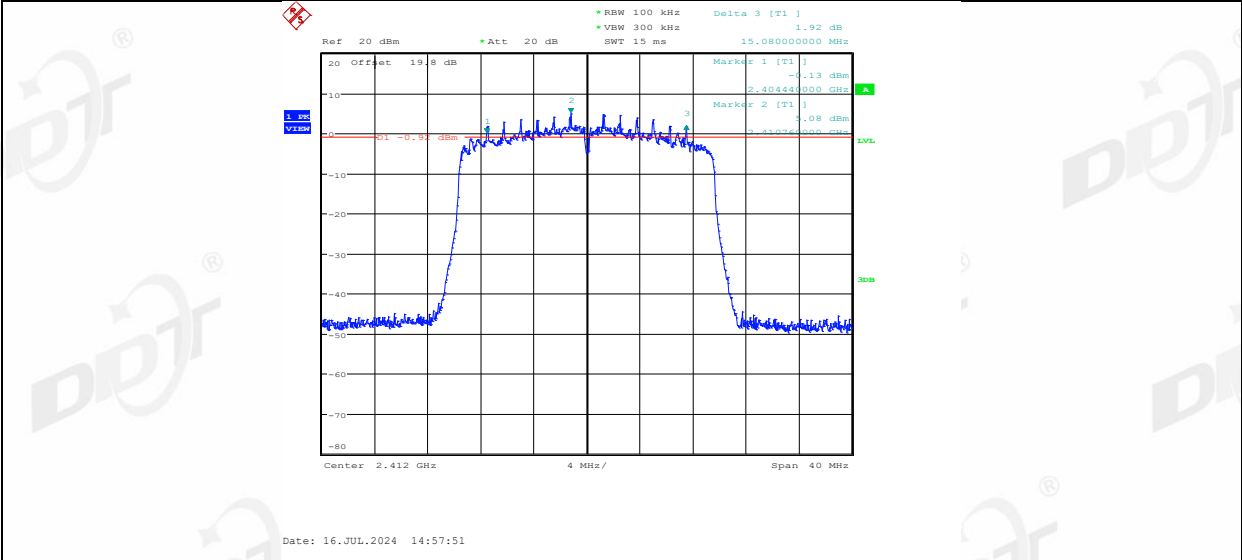
11N40MIMO_Ant2_2452



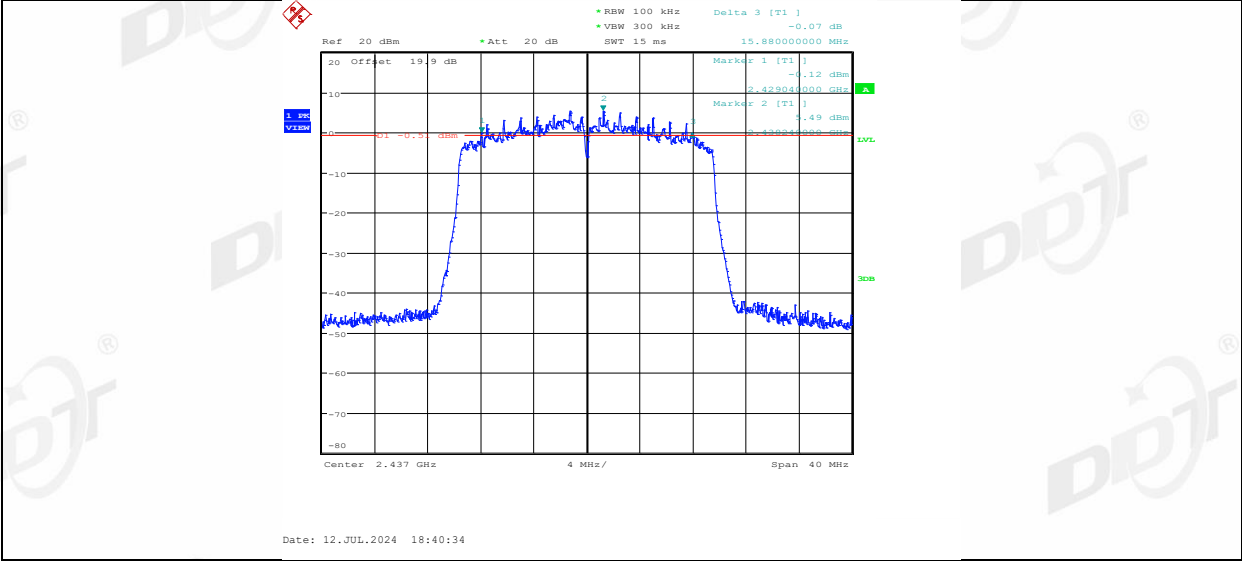
11AX20MIMO_Ant1_2412



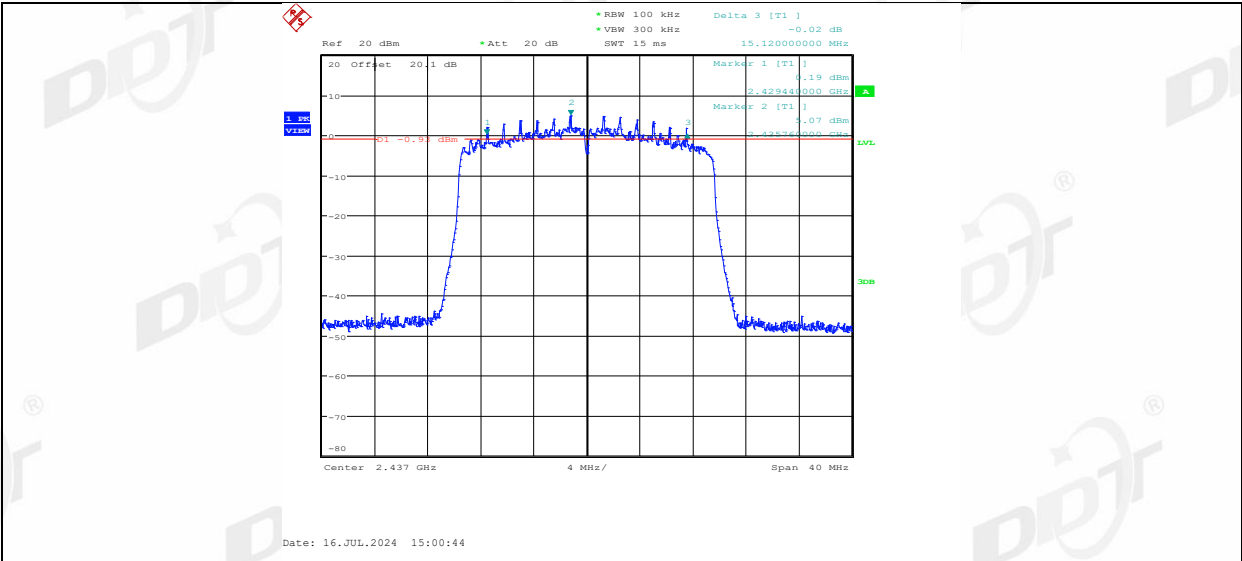
11AX20MIMO_Ant2_2412



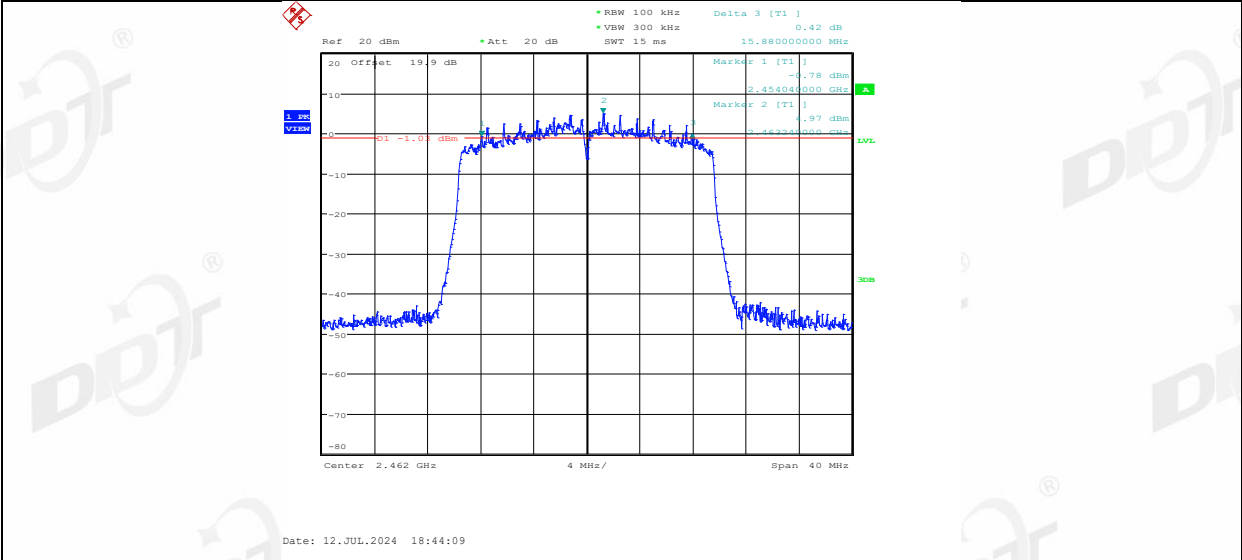
11AX20MIMO_Ant1_2437



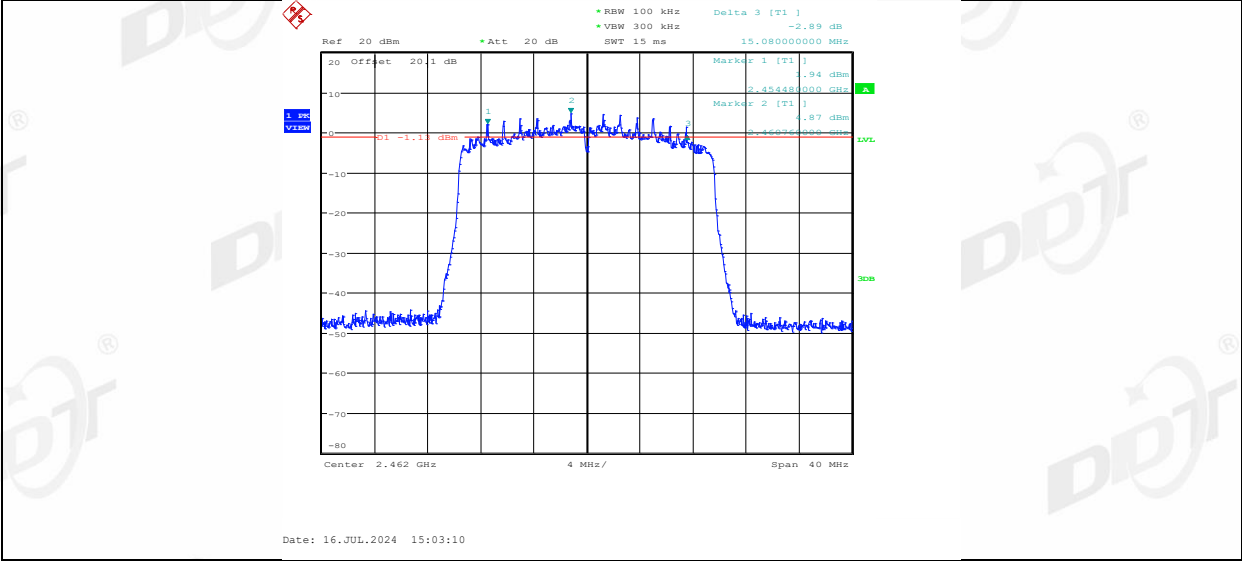
11AX20MIMO_Ant2_2437



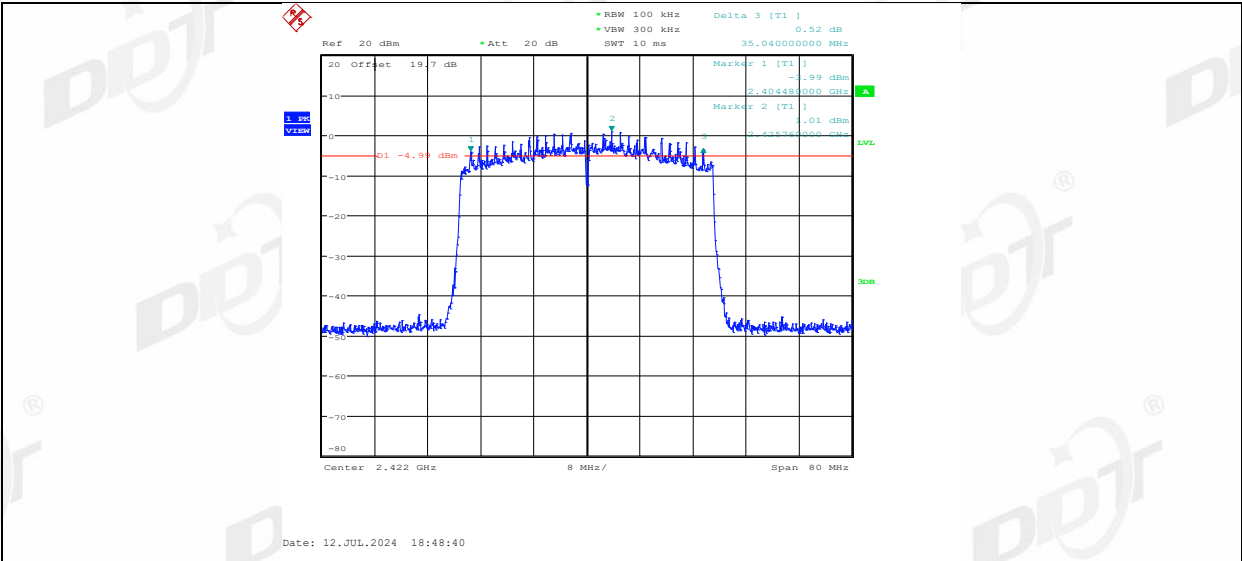
11AX20MIMO_Ant1_2462



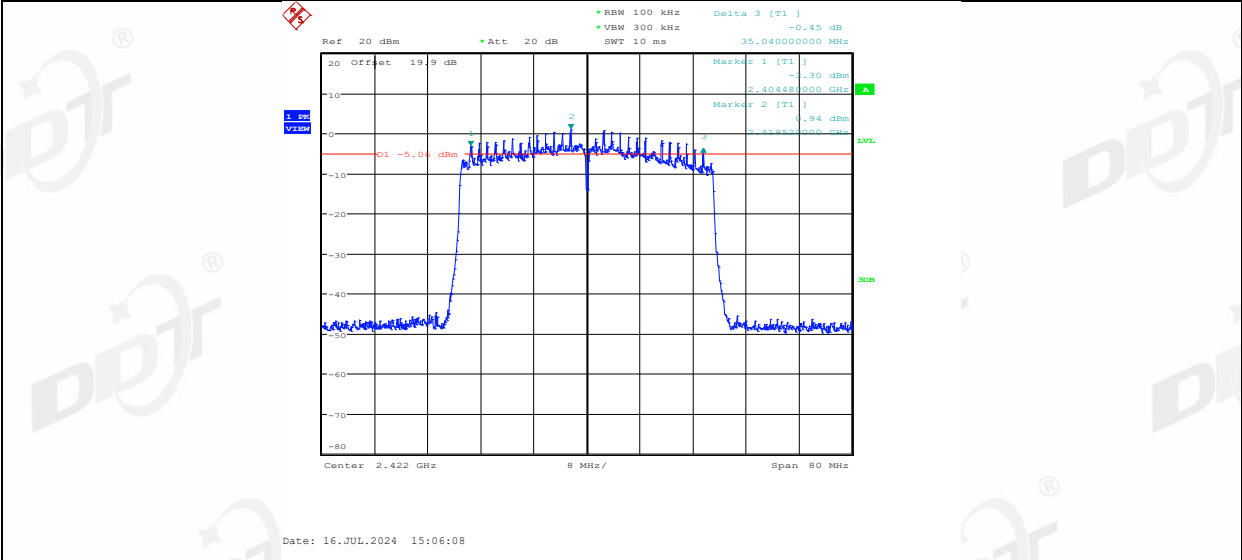
11AX20MIMO_Ant2_2462



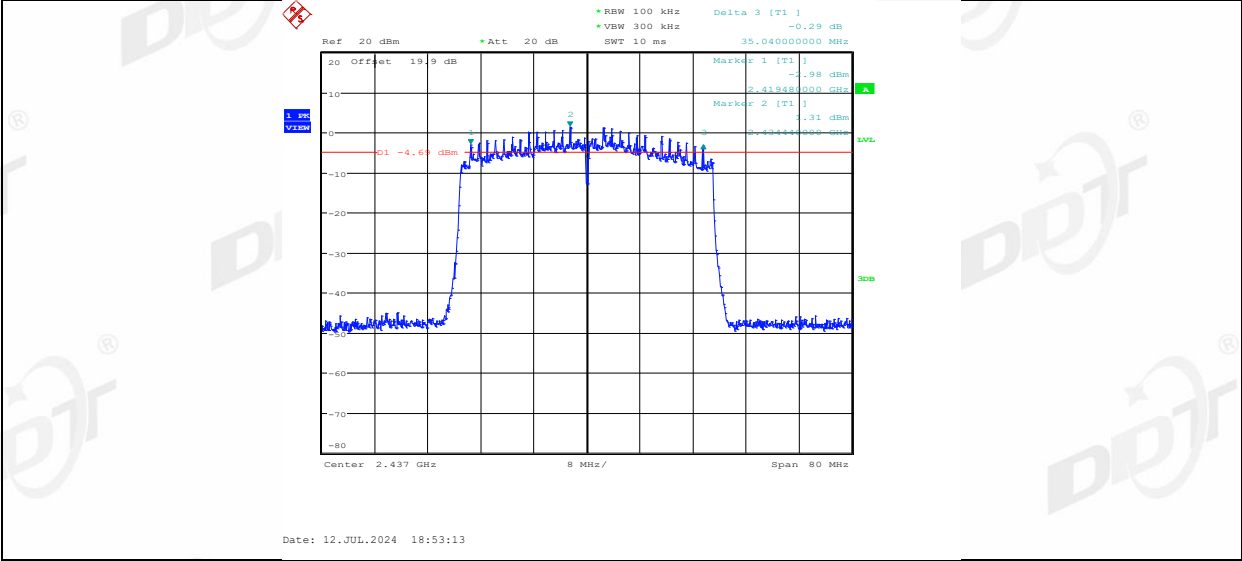
11AX40MIMO_Ant1_2422



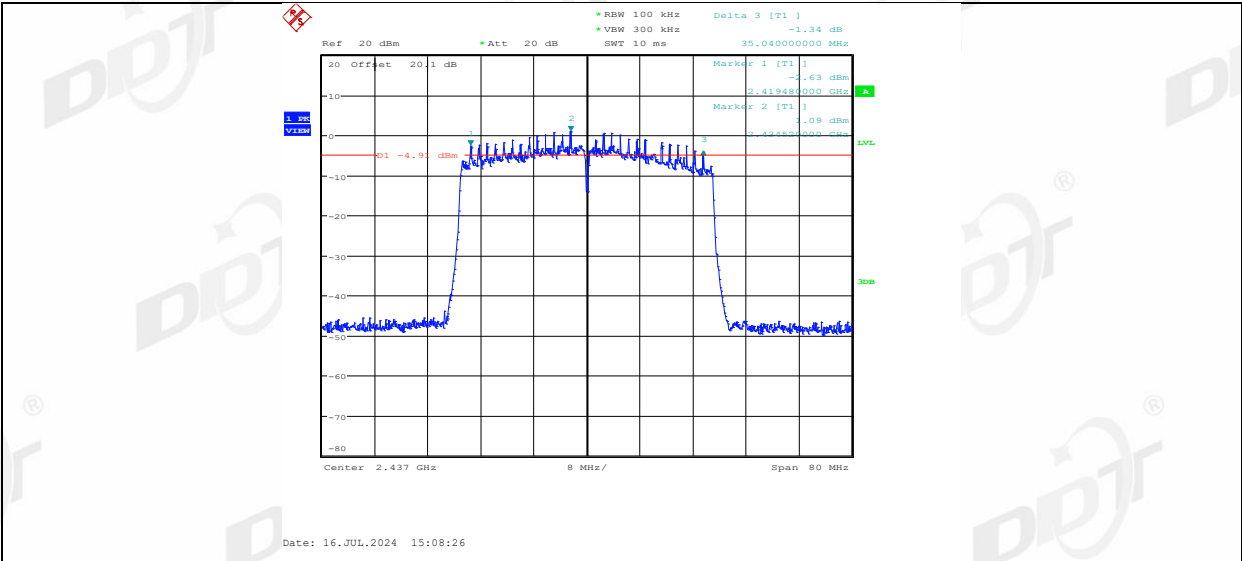
11AX40MIMO_Ant2_2422



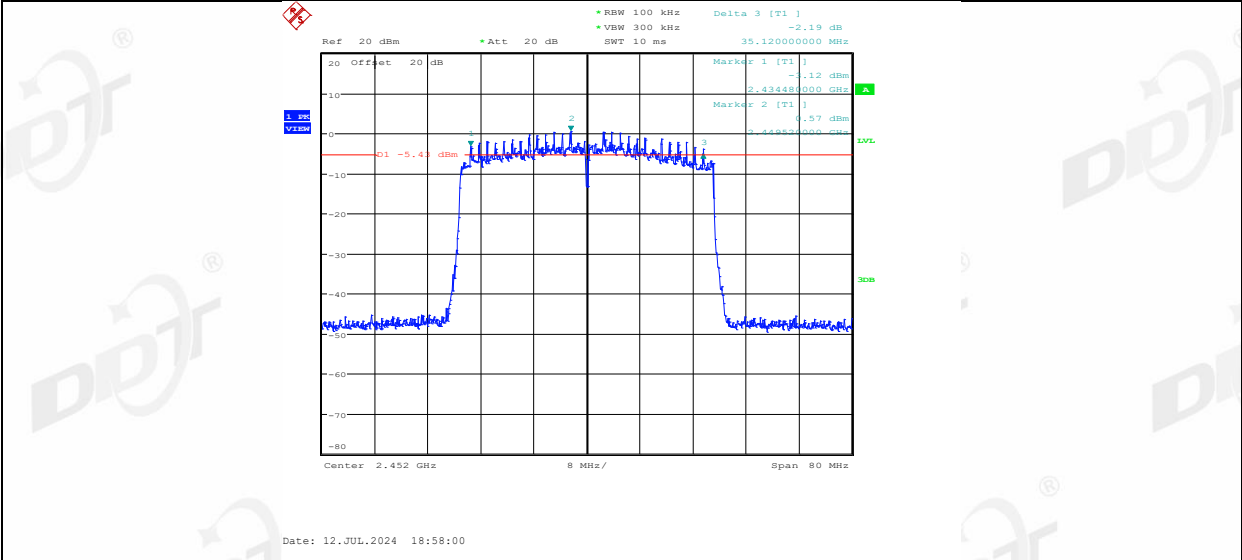
11AX40MIMO_Ant1_2437



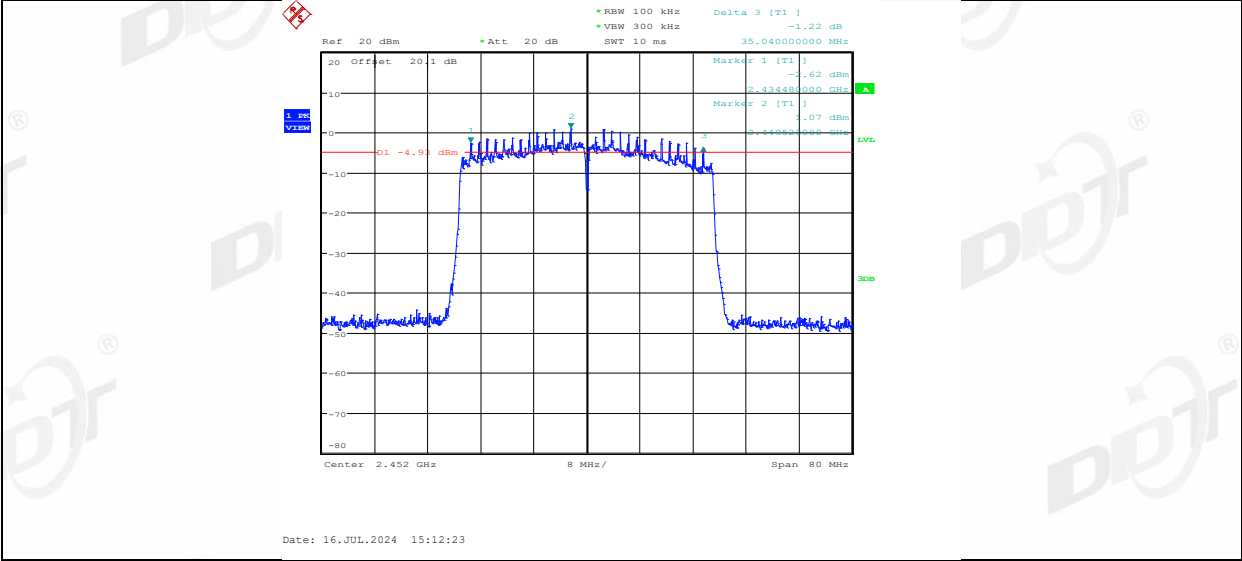
11AX40MIMO_Ant2_2437



11AX40MIMO_Ant1_2452

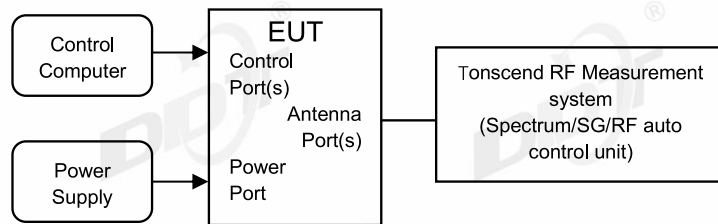


11AX40MIMO_Ant2_2452



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

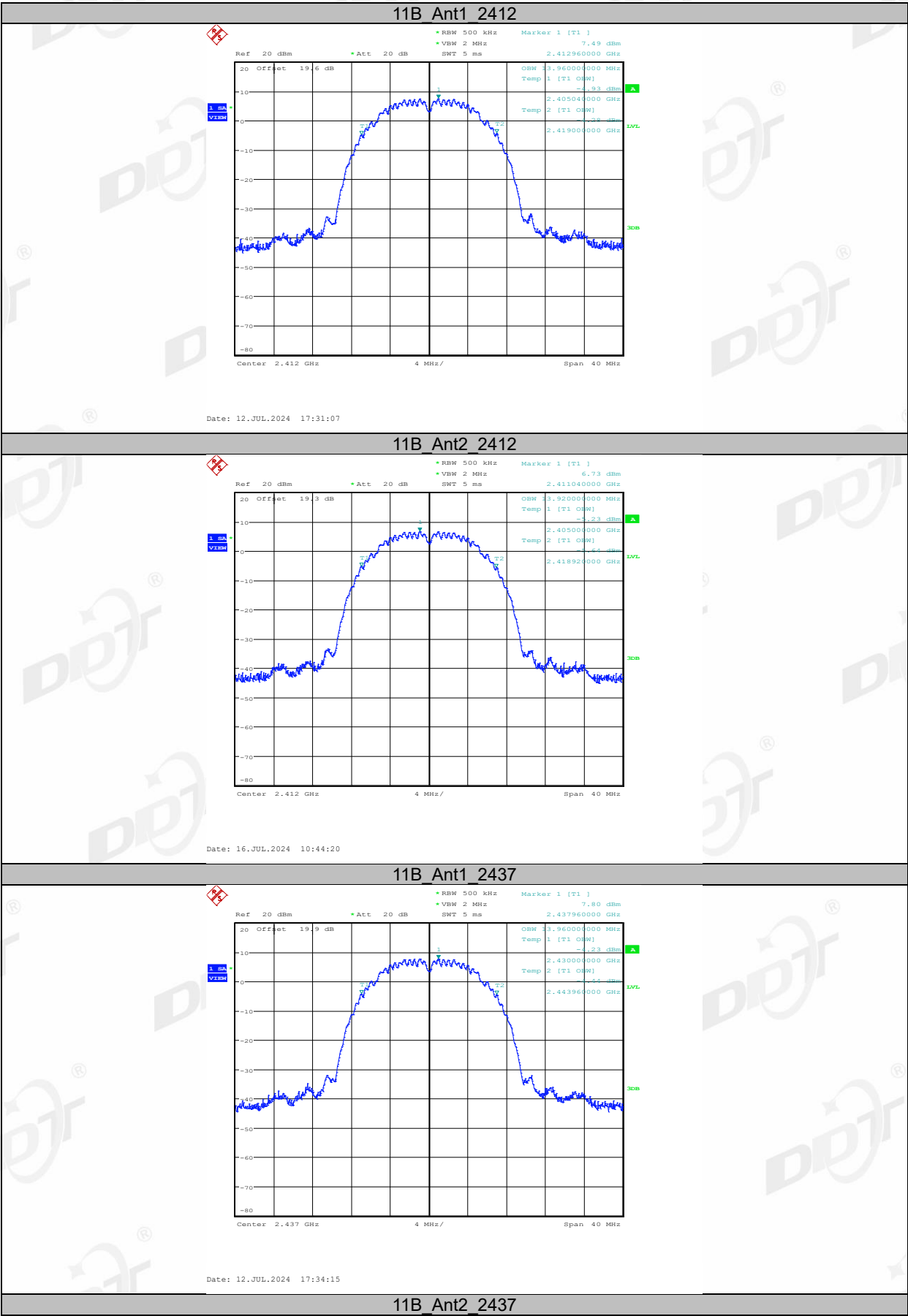
Allow the trace to stabilize, measure the 99% bandwidth of signal, and record the results in the report.

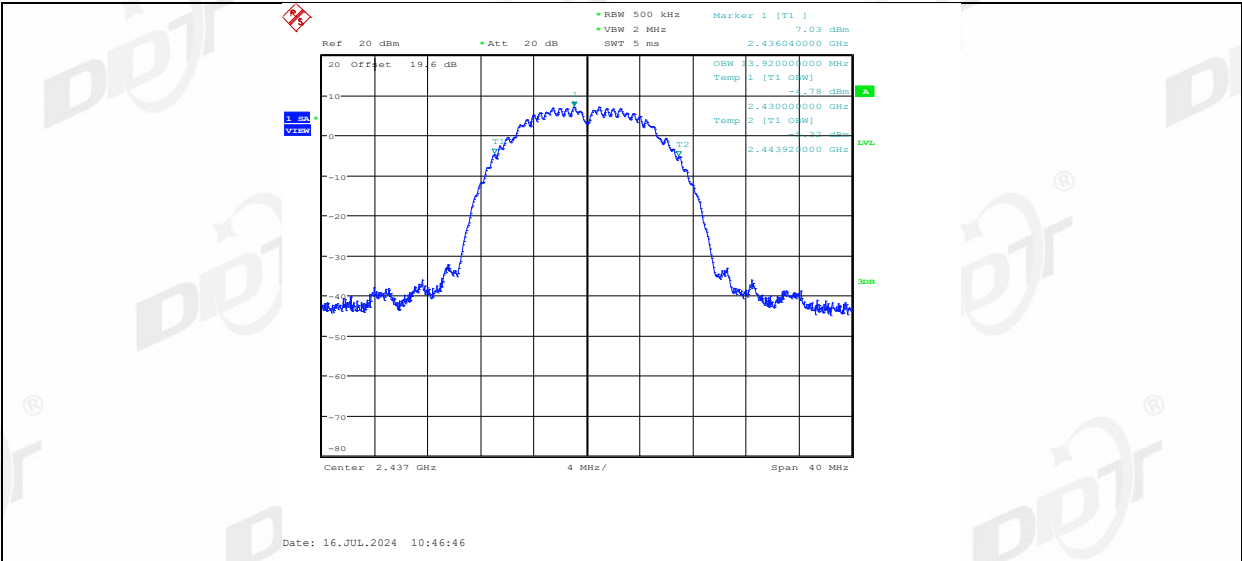
5.4. Test result

Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	26.58℃,40.0%RH	Test Date:	2024.07.12-2024.07.23
Test Power Supply:	AC120V/60Hz	Sample Number:	S24052212-001

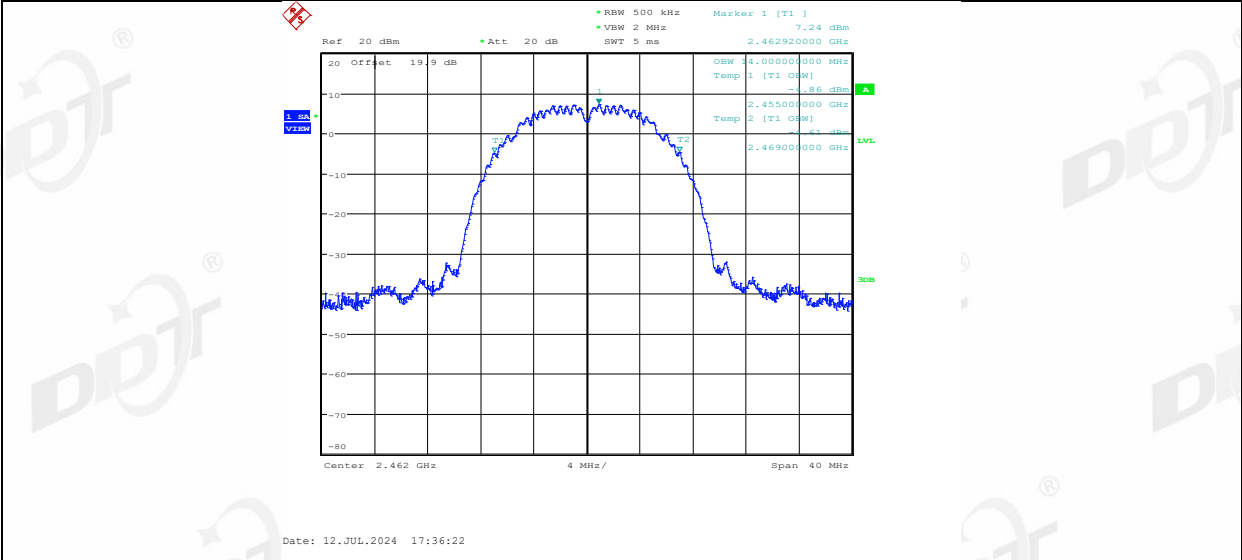
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.96	2405.0400	2419.0000	---	---
	Ant2	2412	13.92	2405.0000	2418.9200	---	---
	Ant1	2437	13.96	2430.0000	2443.9600	---	---
	Ant2	2437	13.92	2430.0000	2443.9200	---	---
	Ant1	2462	14.00	2455.0000	2469.0000	---	---
	Ant2	2462	13.96	2454.9600	2468.9200	---	---
11G	Ant1	2412	16.36	2403.8400	2420.2000	---	---
	Ant2	2412	16.36	2403.8000	2420.1600	---	---
	Ant1	2437	16.40	2428.8000	2445.2000	---	---
	Ant2	2437	16.36	2428.8000	2445.1600	---	---
	Ant1	2462	16.40	2453.8000	2470.2000	---	---
	Ant2	2462	16.36	2453.8000	2470.1600	---	---
11N20MI MO	Ant1	2412	17.52	2403.2400	2420.7600	---	---
	Ant2	2412	17.40	2403.2800	2420.6800	---	---
	Ant1	2437	17.44	2428.2400	2445.6800	---	---
	Ant2	2437	17.40	2428.2400	2445.6400	---	---
	Ant1	2462	17.48	2453.2400	2470.7200	---	---
	Ant2	2462	17.40	2453.2400	2470.6400	---	---
11N40MI MO	Ant1	2422	35.92	2404.0800	2440.0000	---	---
	Ant2	2422	35.84	2404.0000	2439.8400	---	---
	Ant1	2437	35.92	2419.0000	2454.9200	---	---
	Ant2	2437	35.84	2419.0000	2454.8400	---	---
	Ant1	2452	35.92	2434.0000	2469.9200	---	---
	Ant2	2452	35.84	2434.0000	2469.8400	---	---
11AX20M IMO	Ant1	2412	18.80	2402.5600	2421.3600	---	---
	Ant2	2412	18.84	2402.5600	2421.4000	---	---
	Ant1	2437	18.80	2427.5600	2446.3600	---	---
	Ant2	2437	18.80	2427.5200	2446.3200	---	---
	Ant1	2462	18.84	2452.5600	2471.4000	---	---
	Ant2	2462	18.80	2452.5600	2471.3600	---	---
11AX40M IMO	Ant1	2422	37.44	2403.2800	2440.7200	---	---
	Ant2	2422	37.44	2403.2000	2440.6400	---	---
	Ant1	2437	37.44	2418.2000	2455.6400	---	---
	Ant2	2437	37.36	2418.2000	2455.5600	---	---
	Ant1	2452	37.44	2433.2000	2470.6400	---	---
	Ant2	2452	37.44	2433.1200	2470.5600	---	---

5.5. Test graphs

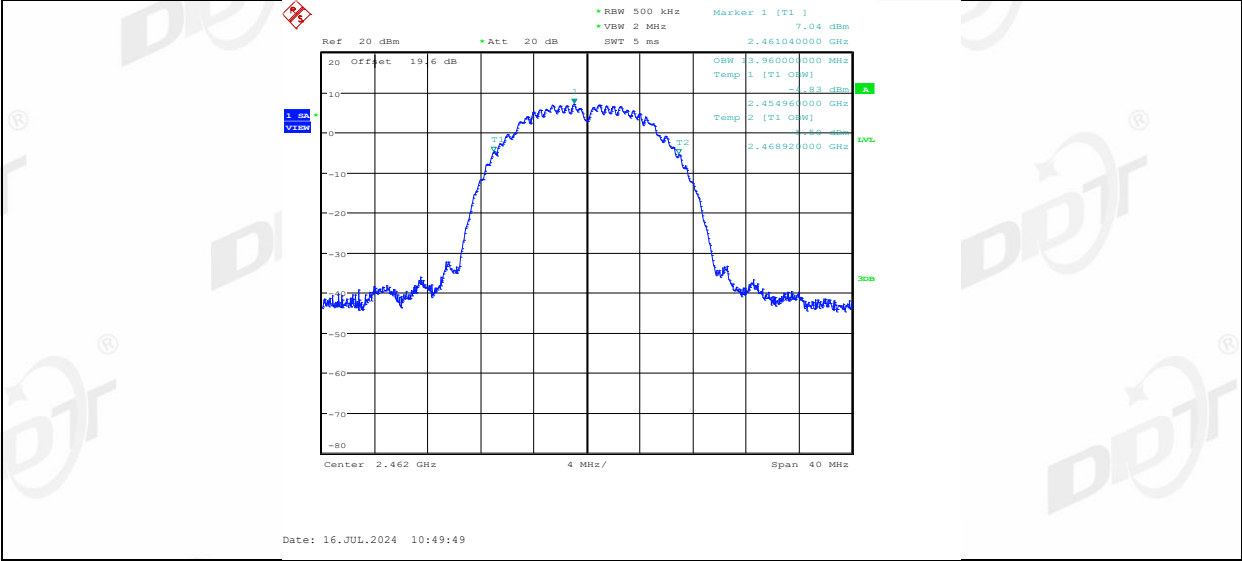




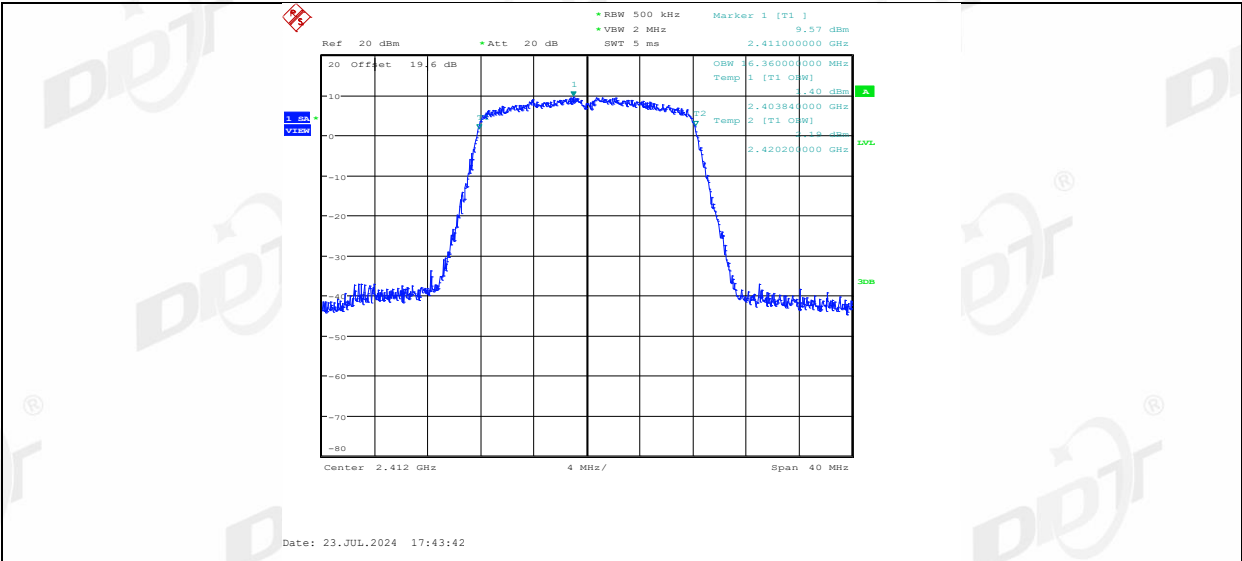
11B_Ant1_2462



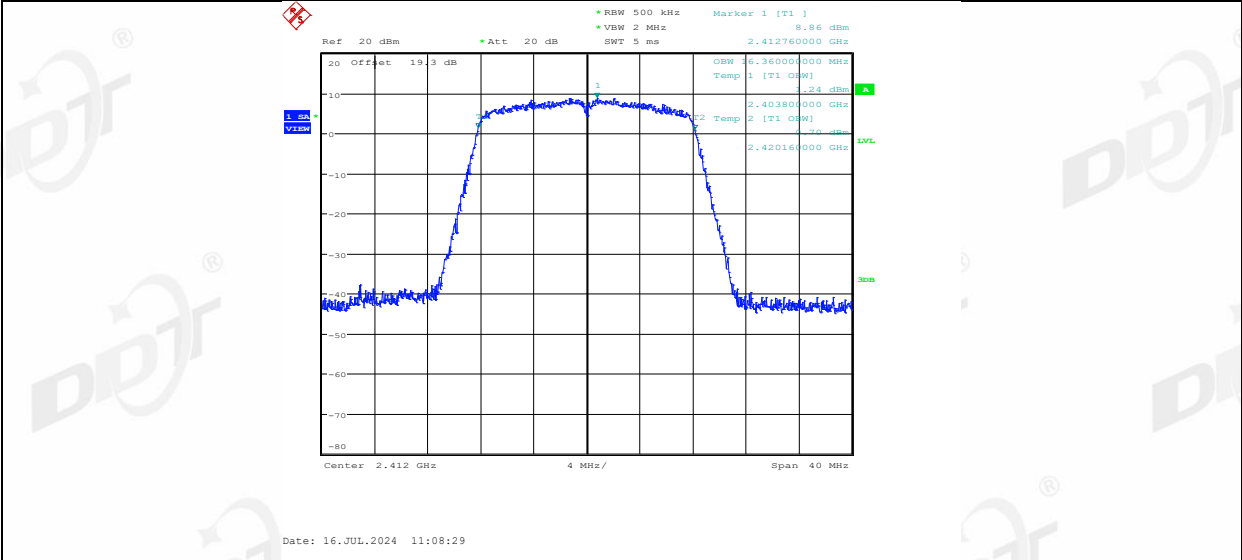
11B_Ant2_2462



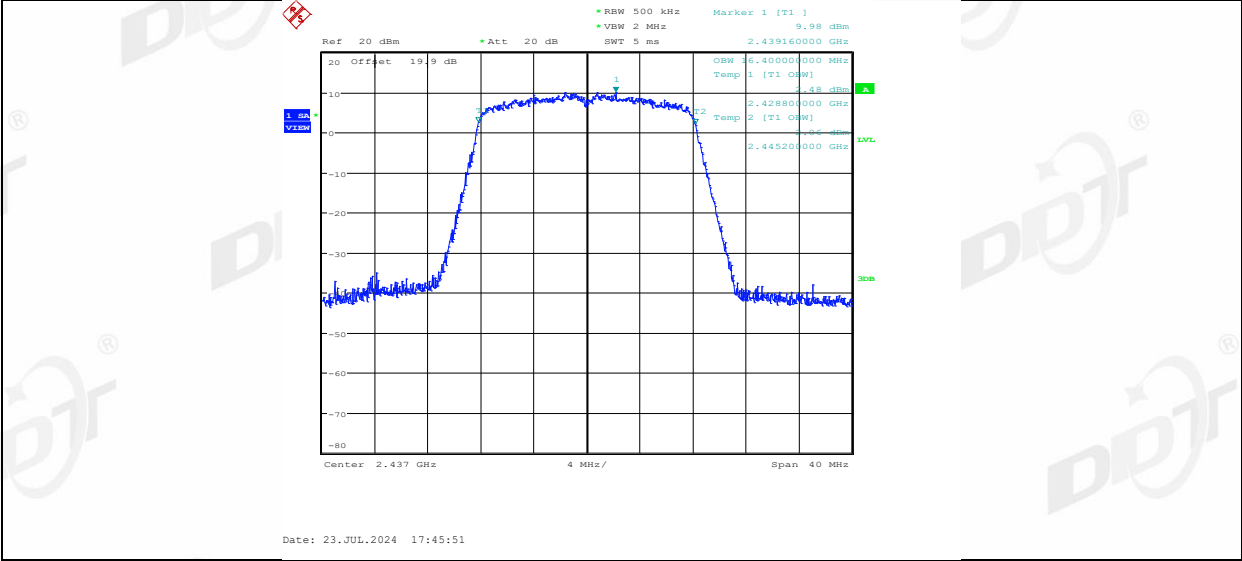
11G_Ant1_2412



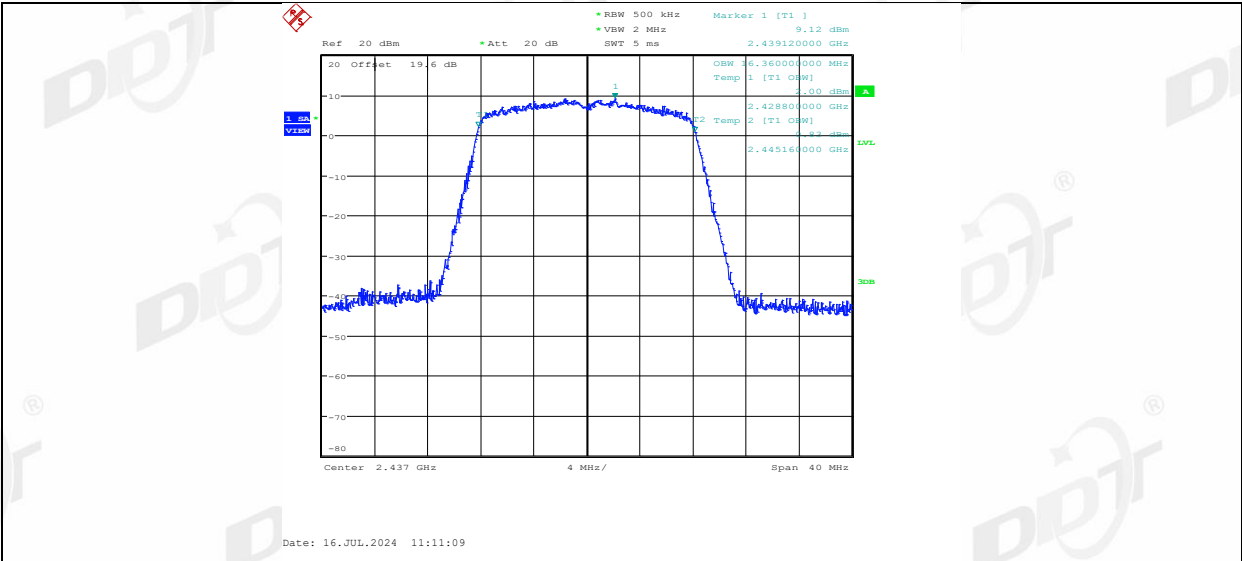
11G_Ant2_2412



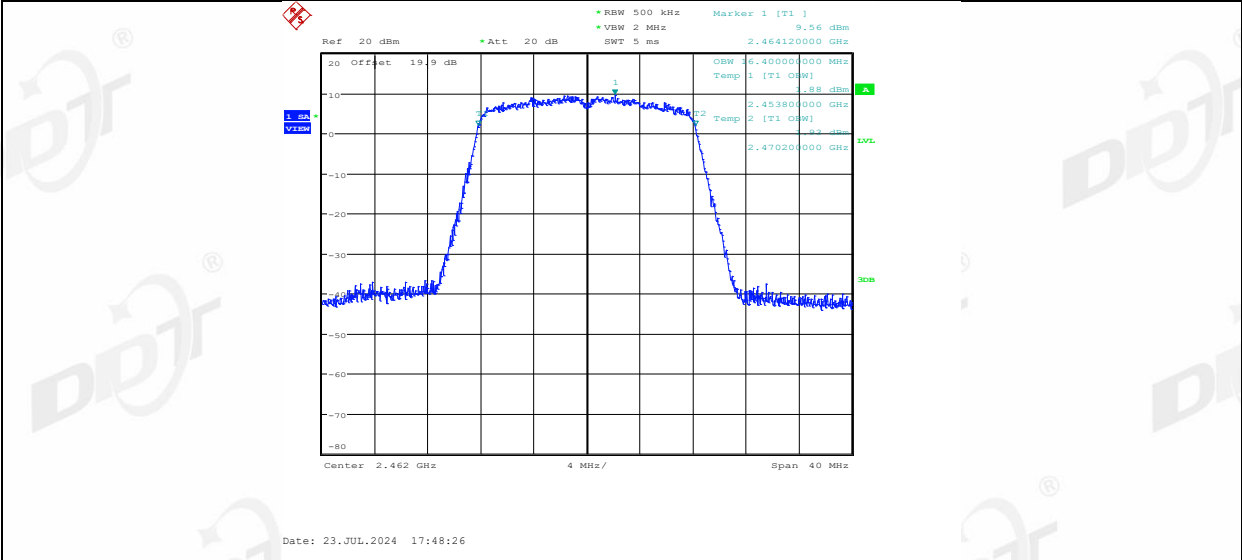
11G_Ant1_2437



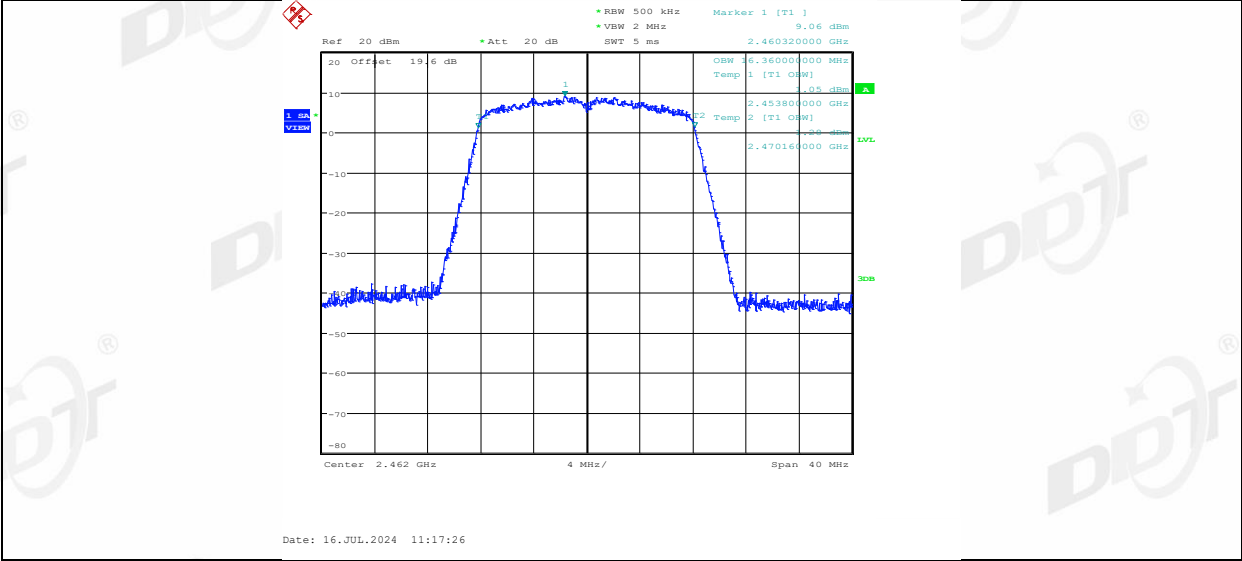
11G_Ant2_2437



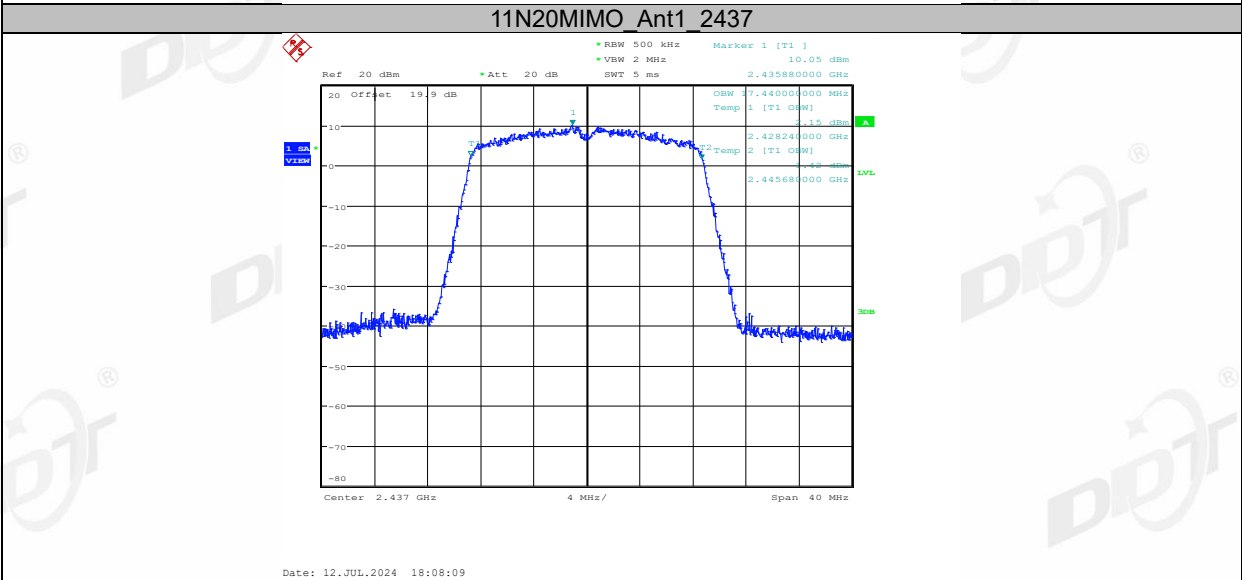
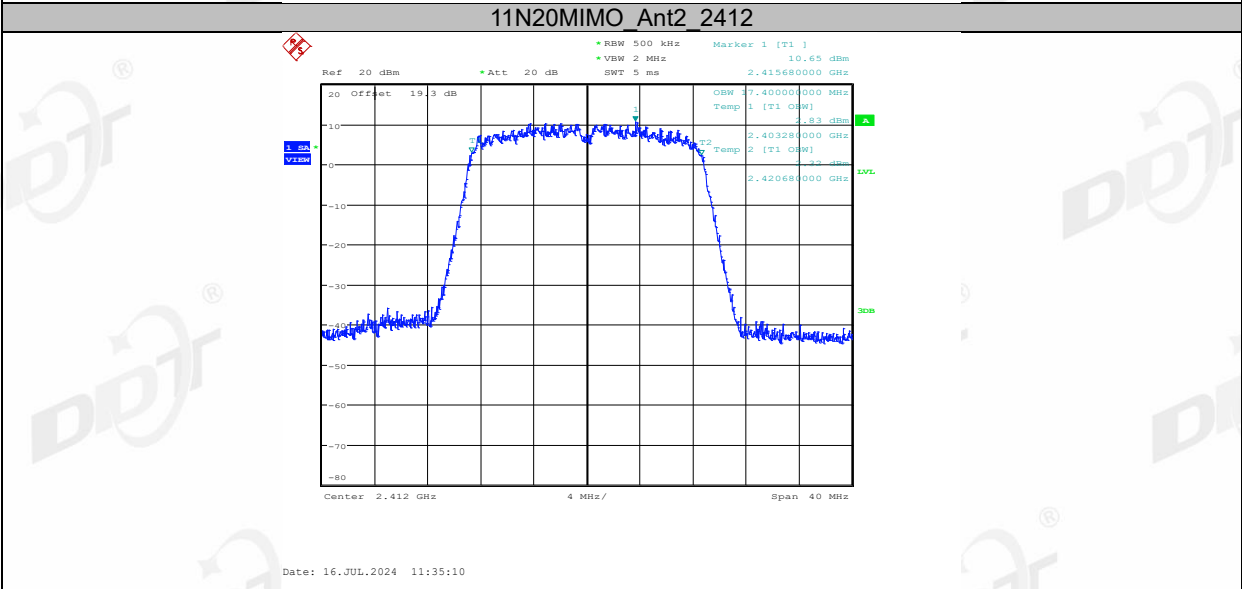
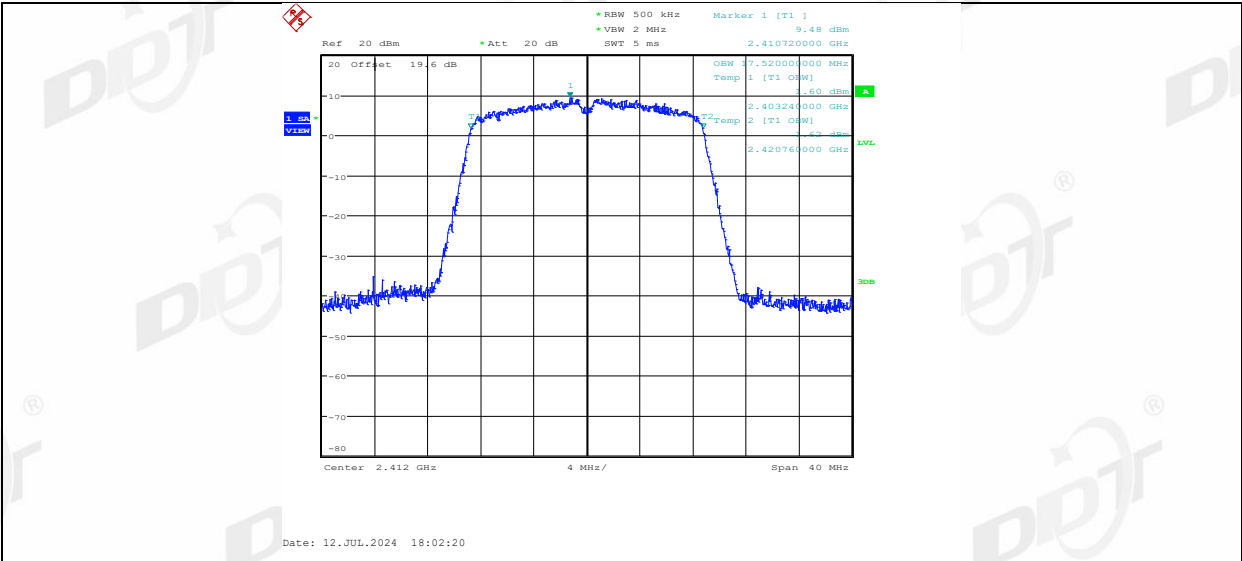
11G_Ant1_2462



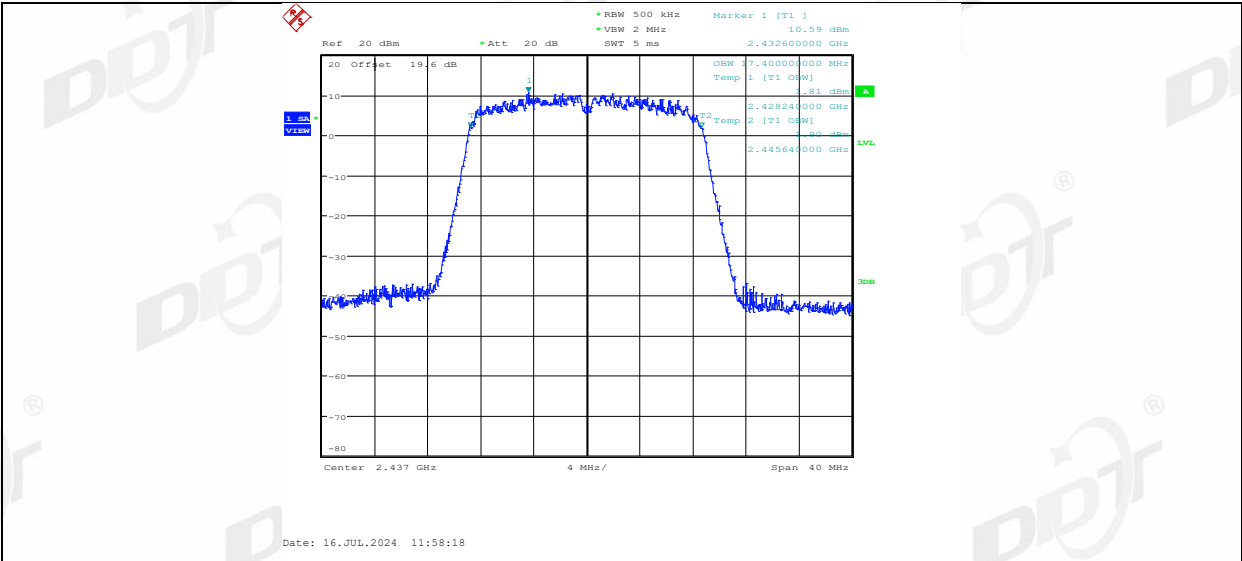
11G_Ant2_2462



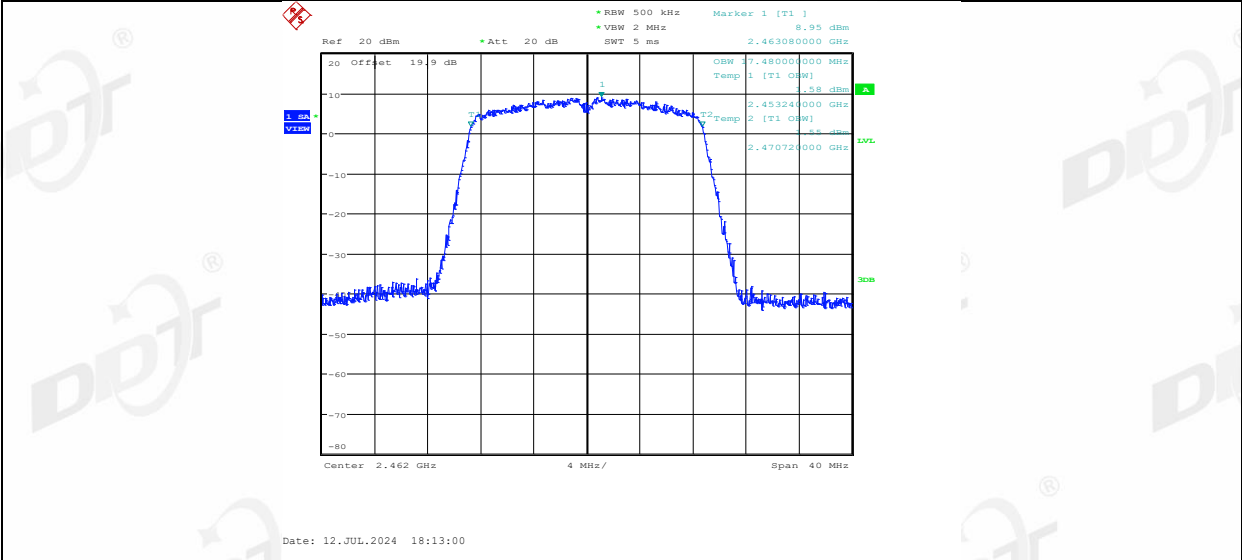
11N20MIMO_Ant1_2412



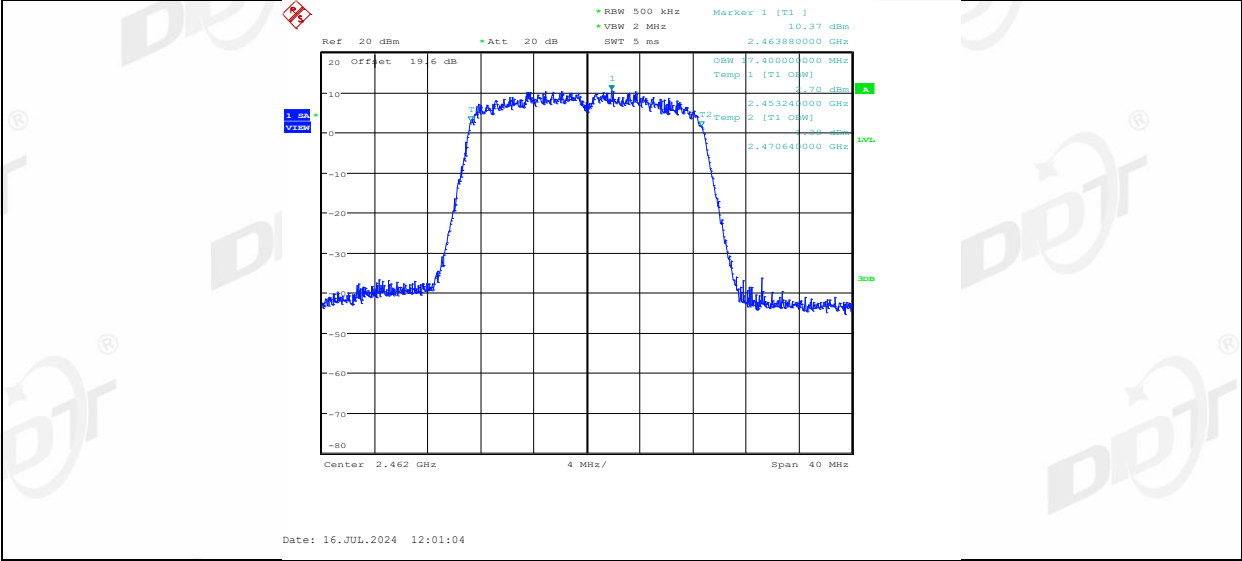
11N20MIMO_Ant2_2437



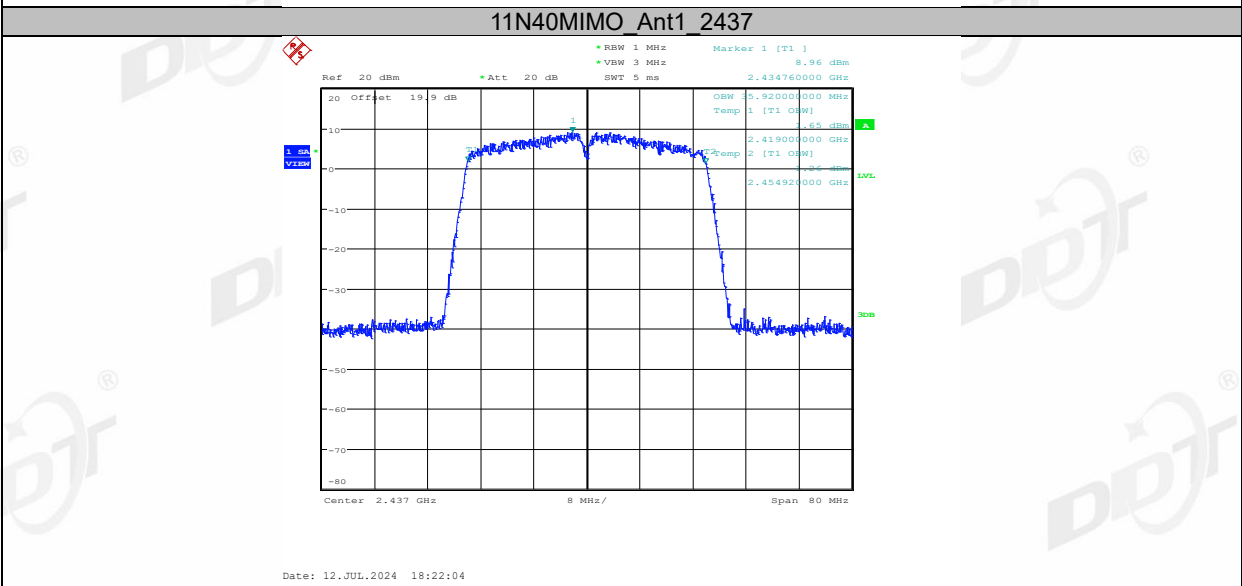
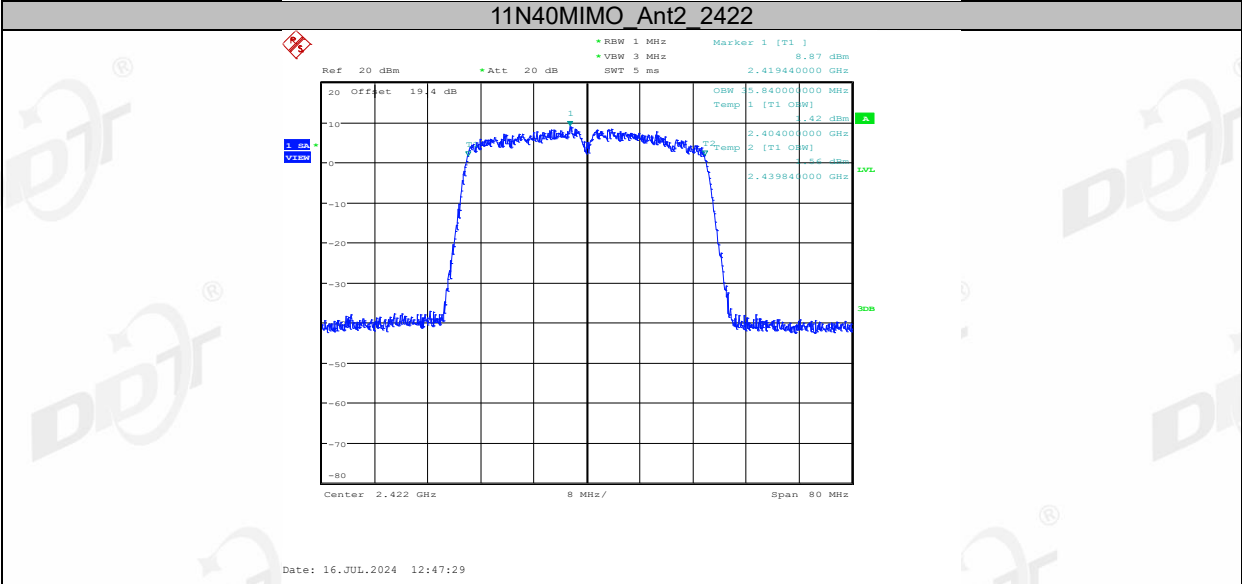
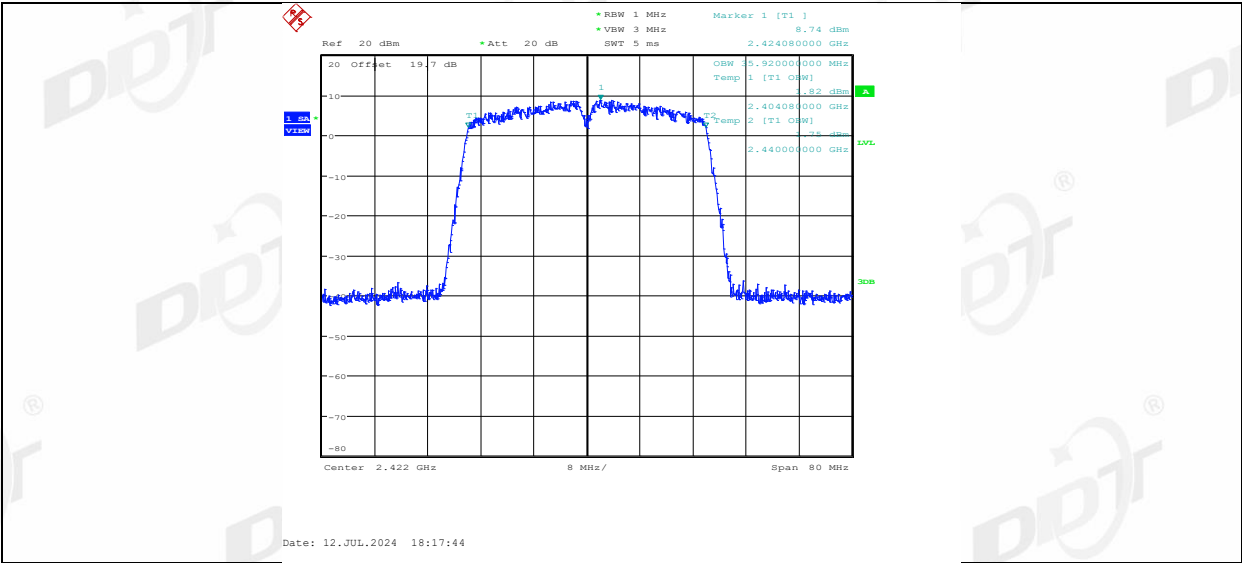
11N20MIMO_Ant1_2462



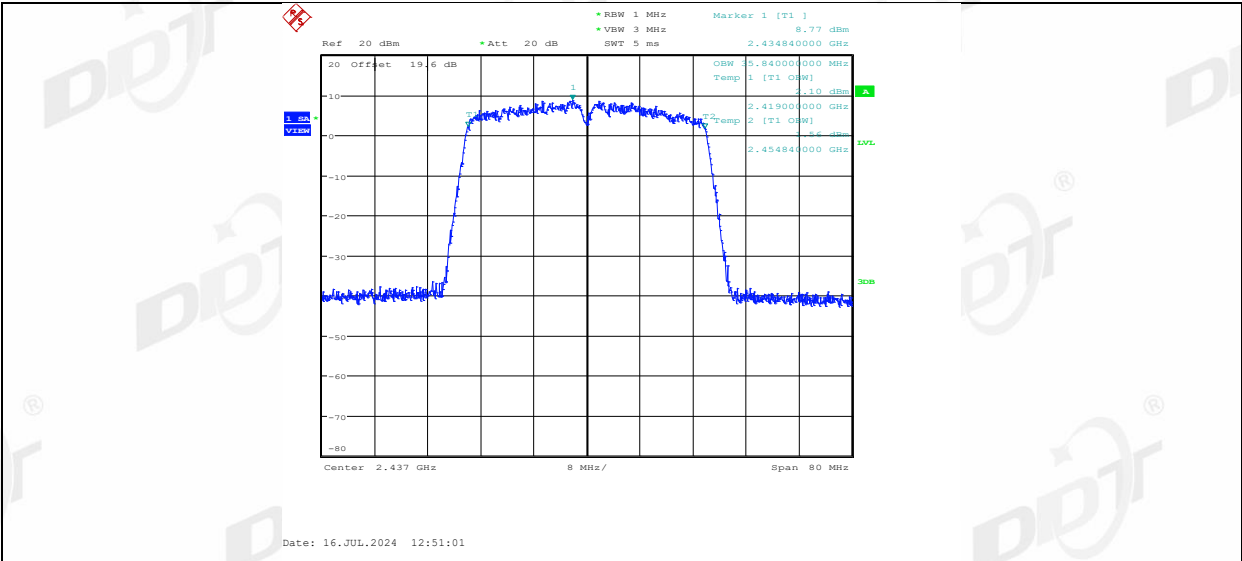
11N20MIMO_Ant2_2462



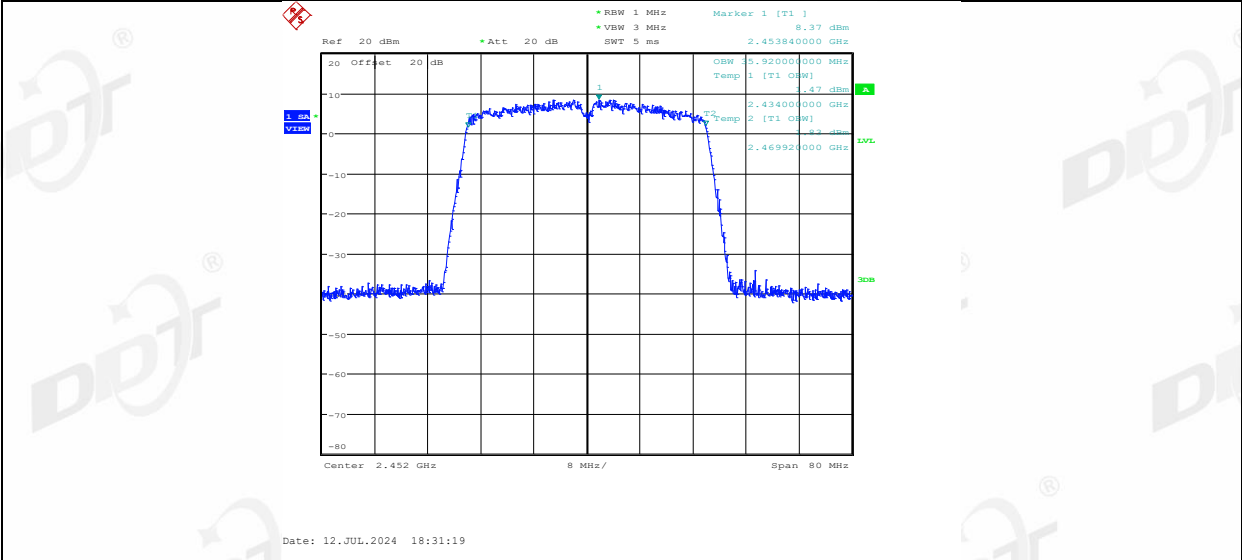
11N40MIMO_Ant1_2422



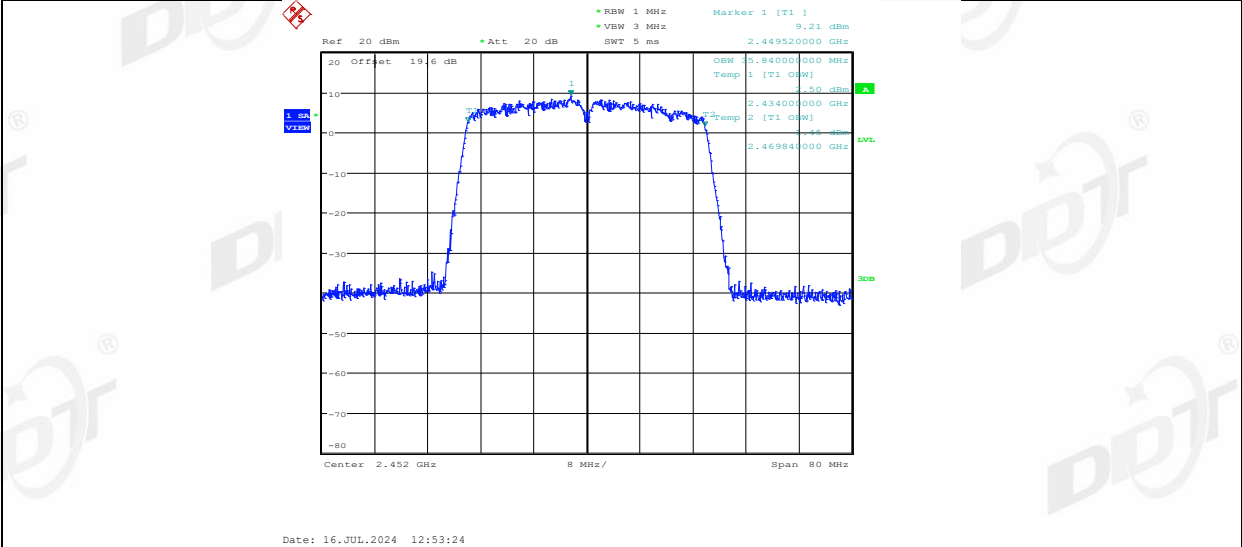
11N40MIMO_Ant2_2437



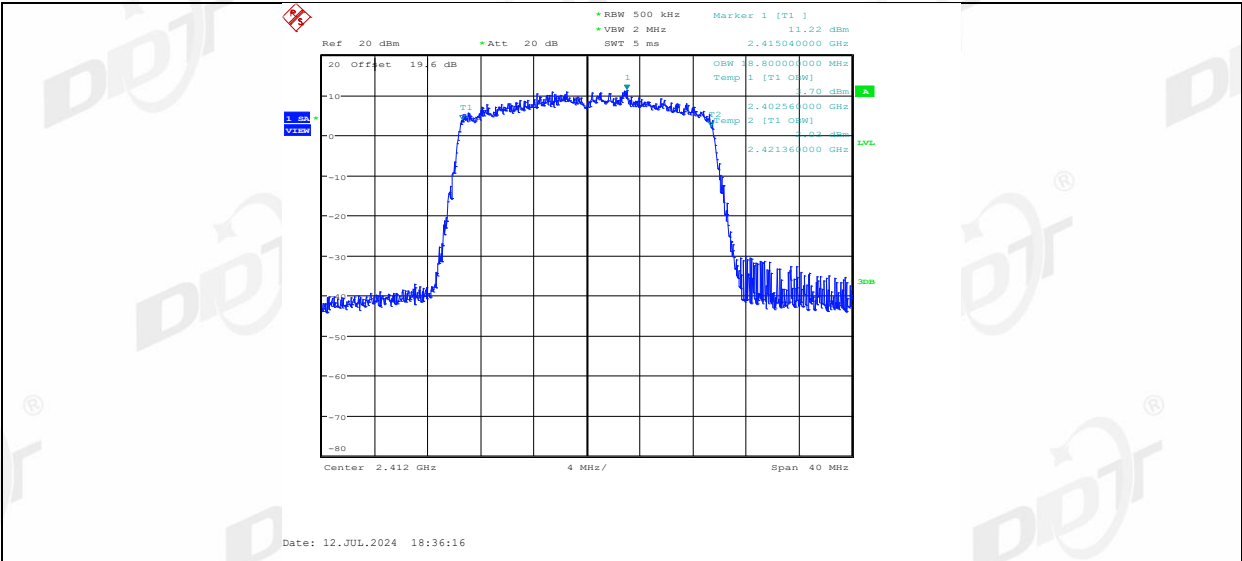
11N40MIMO_Ant1_2452



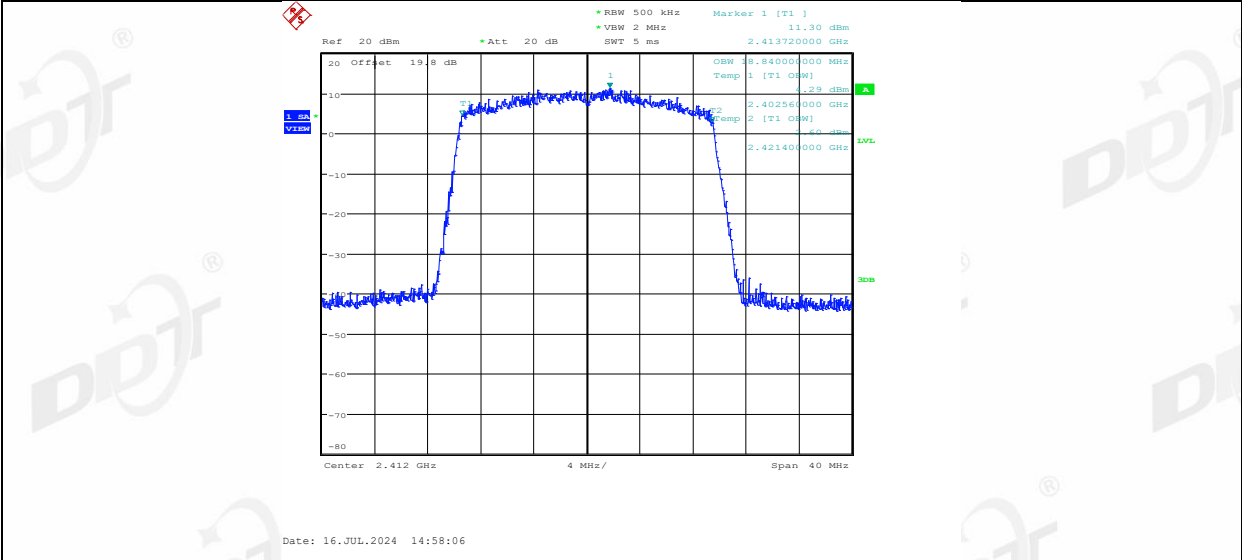
11N40MIMO_Ant2_2452



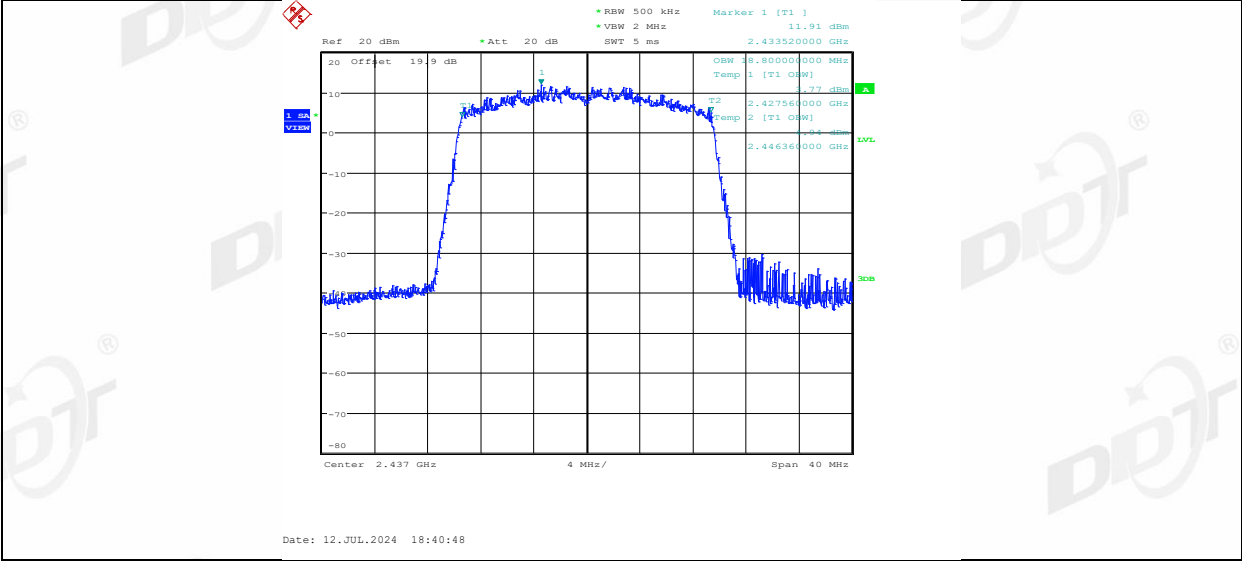
11AX20MIMO_Ant1_2412



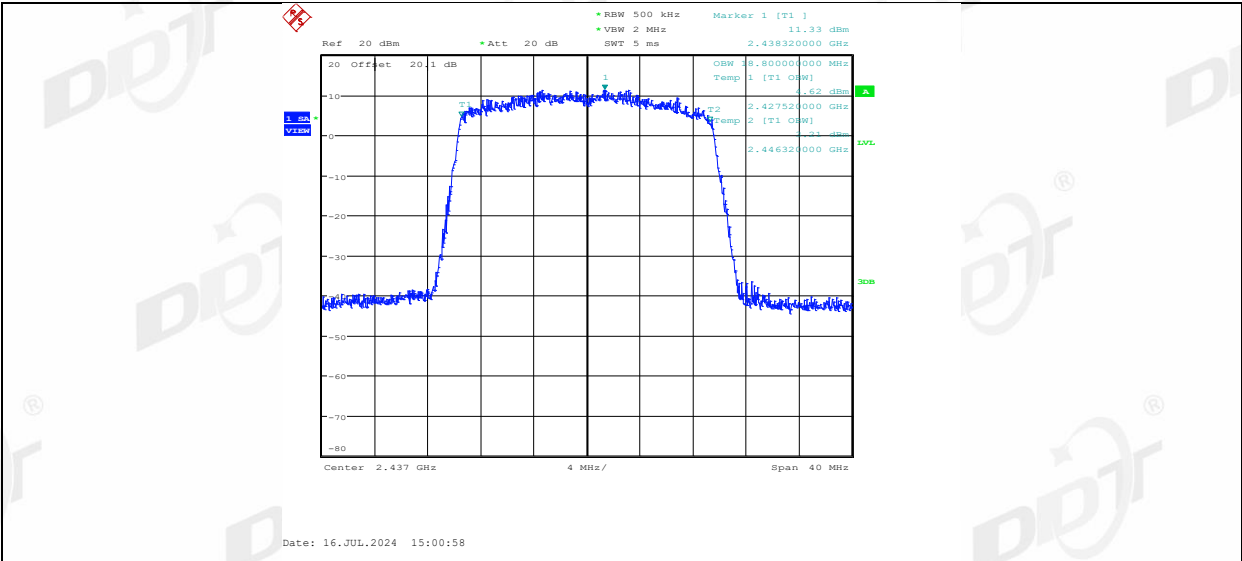
11AX20MIMO_Ant2_2412



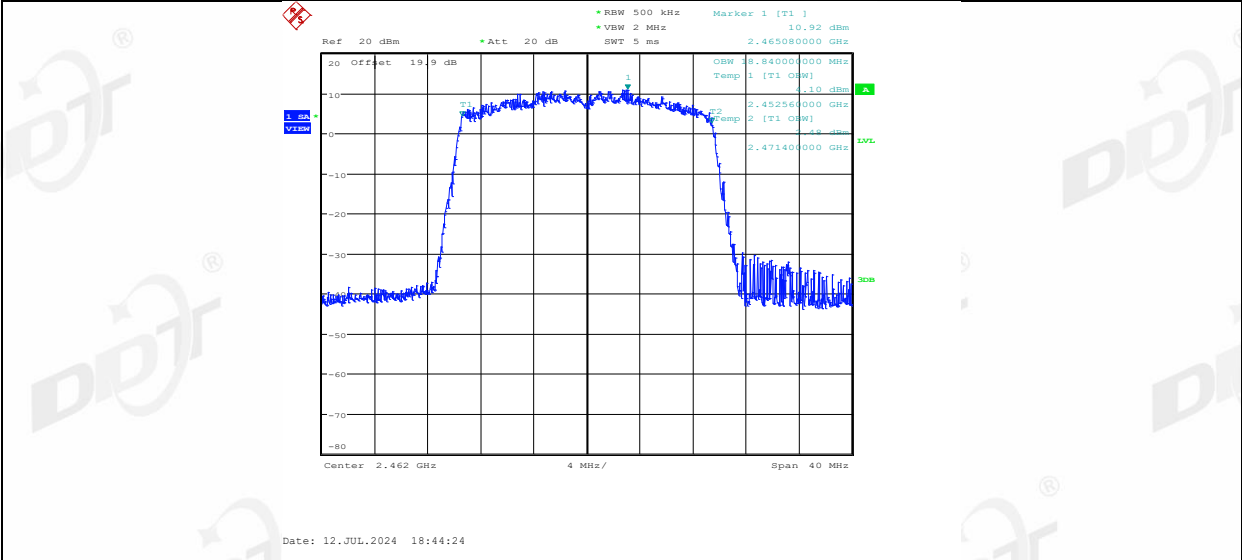
11AX20MIMO_Ant1_2437



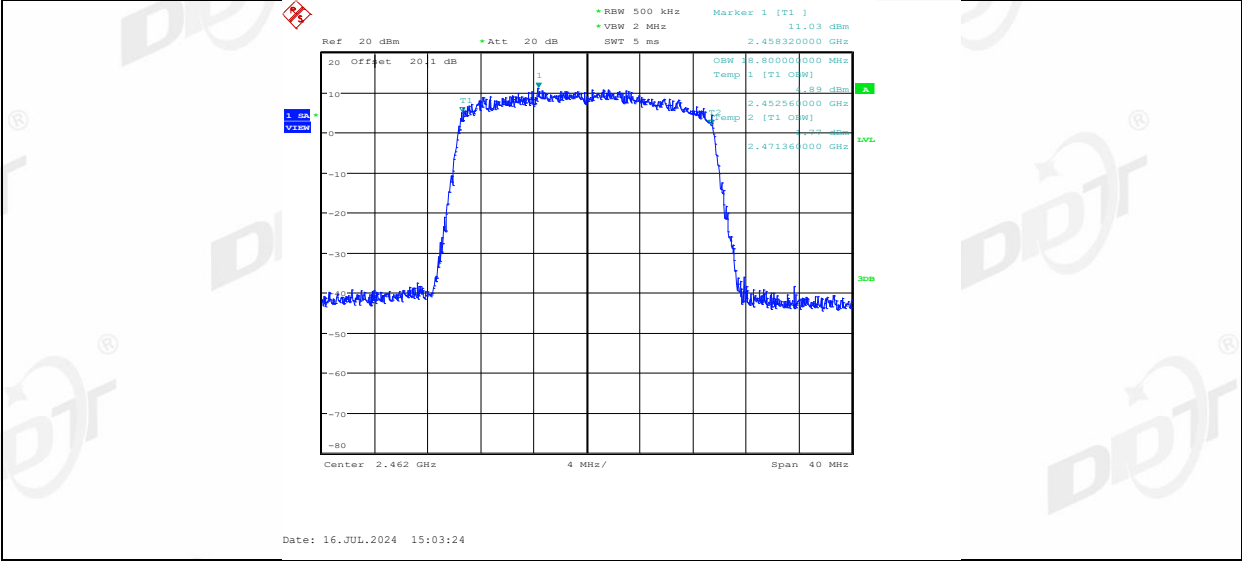
11AX20MIMO_Ant2_2437



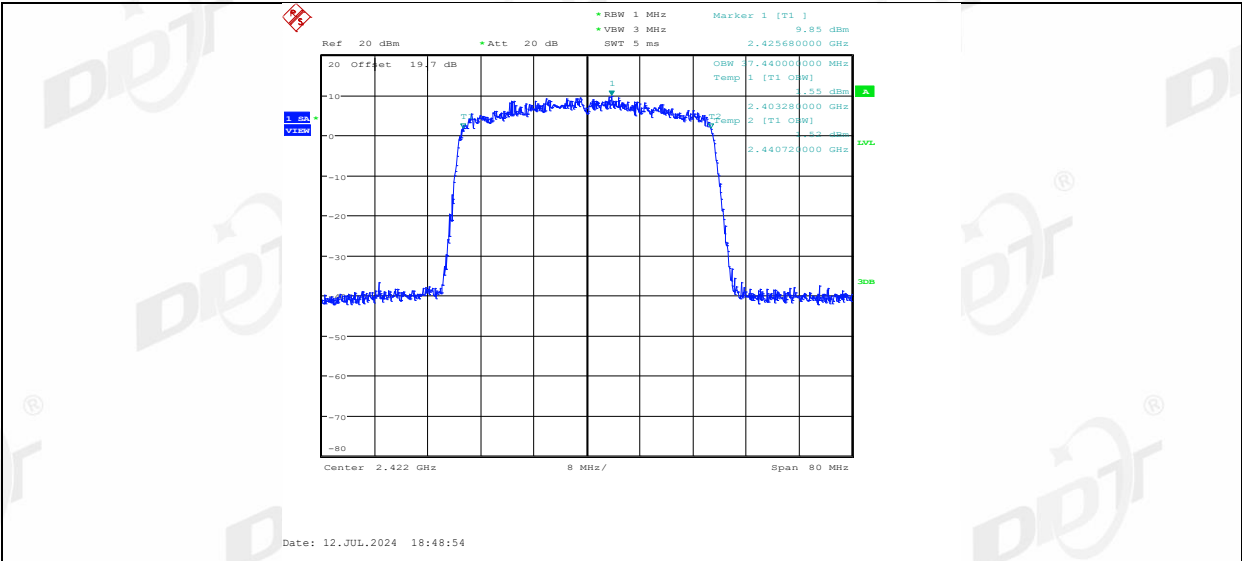
11AX20MIMO_Ant1_2462



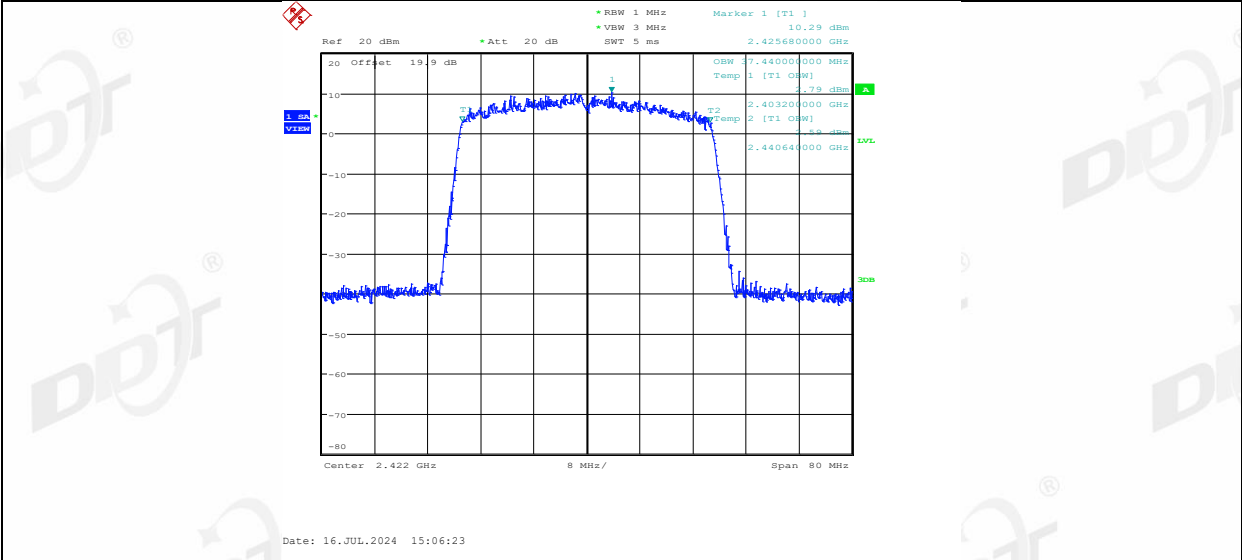
11AX20MIMO_Ant2_2462



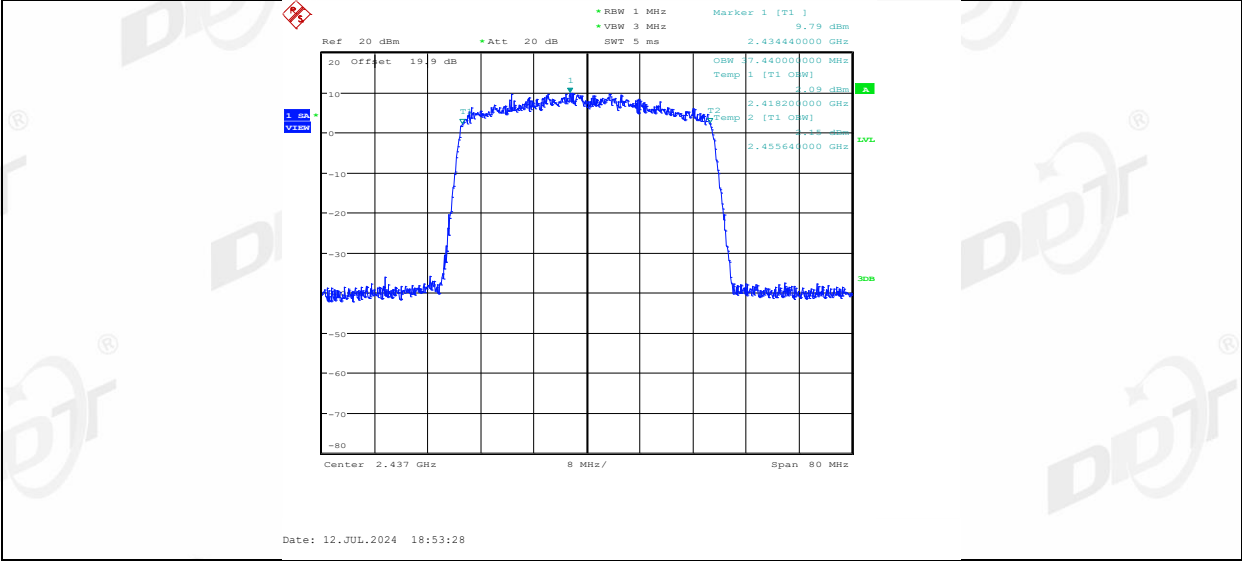
11AX40MIMO_Ant1_2422



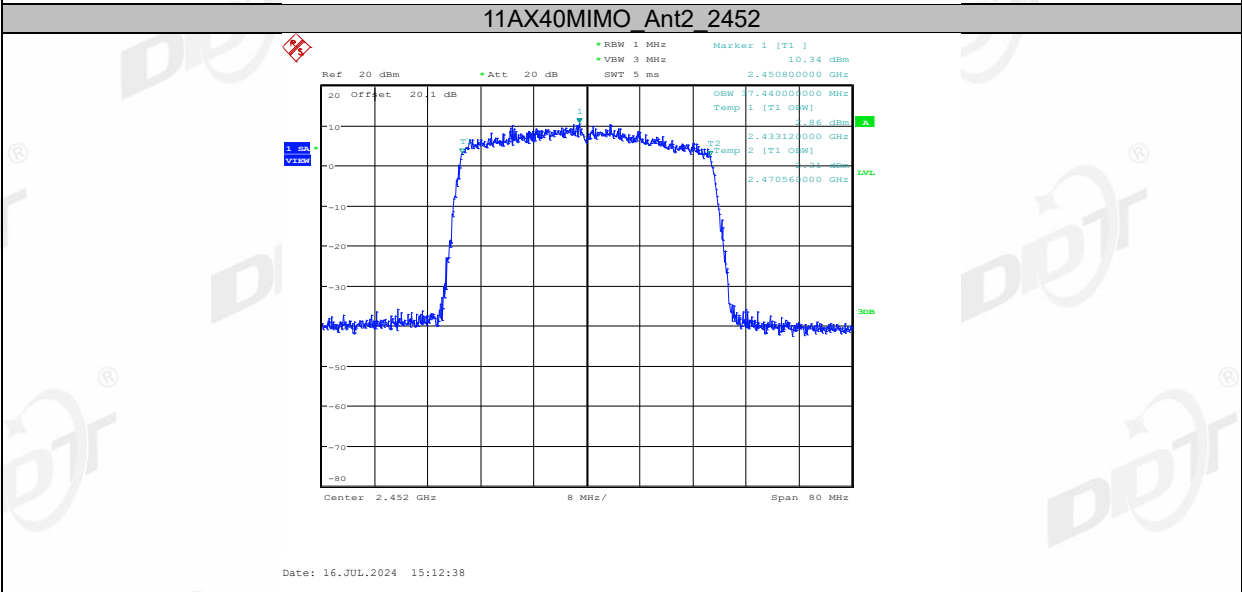
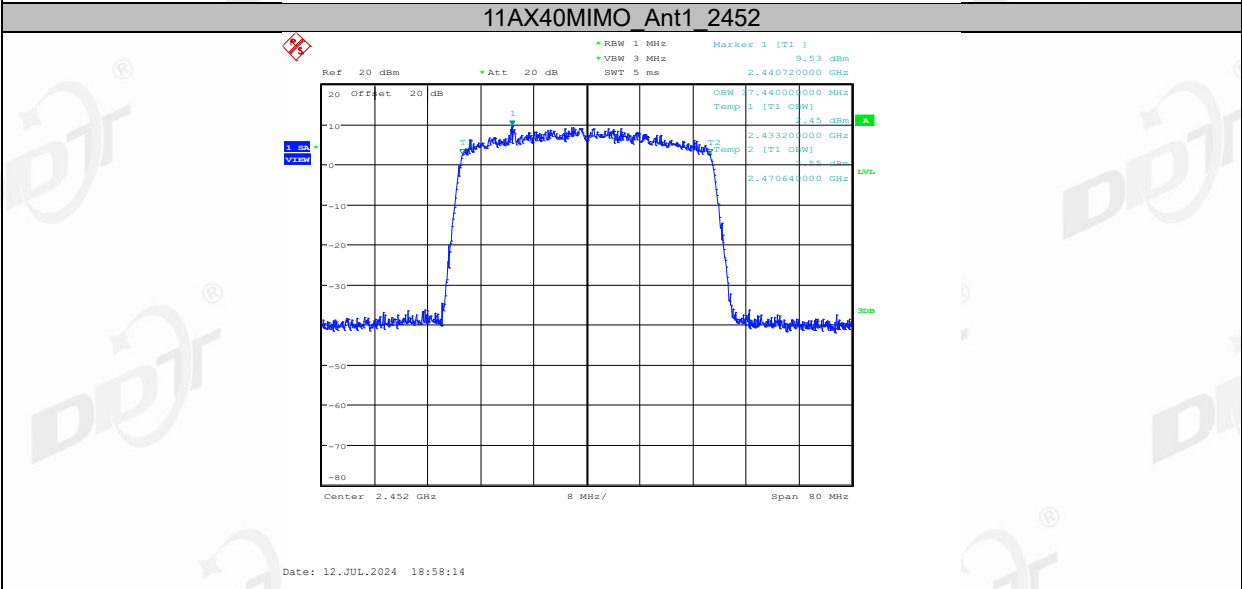
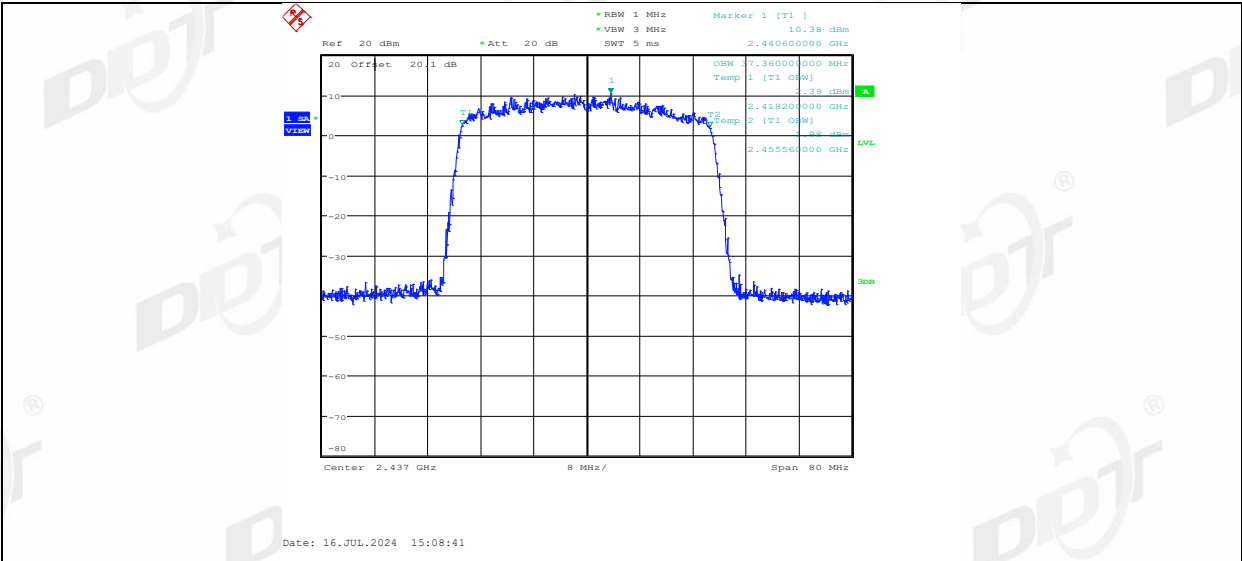
11AX40MIMO_Ant2_2422



11AX40MIMO_Ant1_2437

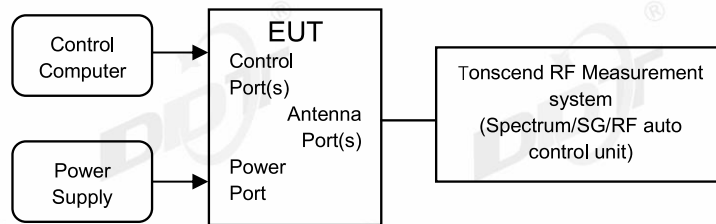


11AX40MIMO_Ant2_2437



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.

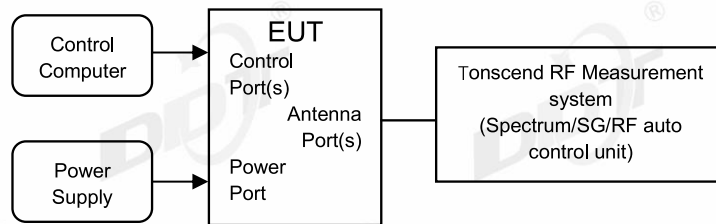
6.4. Test result average

Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	26.58℃,40.0%RH	Test Date:	2024.07.12-2024.07.23
Test Power Supply:	AC120V/60Hz	Sample Number:	S24052212-001

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	16.40	98.80	0.05	16.45	≤30.00	PASS
	Ant2	2412	15.29	98.80	0.05	15.34	≤30.00	PASS
	Ant1	2437	16.08	98.80	0.05	16.13	≤30.00	PASS
	Ant2	2437	15.50	98.80	0.05	15.55	≤30.00	PASS
	Ant1	2462	16.07	98.68	0.06	16.13	≤30.00	PASS
	Ant2	2462	15.40	98.80	0.05	15.45	≤30.00	PASS
11G	Ant1	2412	15.87	93.20	0.31	16.18	≤30.00	PASS
	Ant2	2412	15.01	93.20	0.31	15.32	≤30.00	PASS
	Ant1	2437	15.94	93.20	0.31	16.25	≤30.00	PASS
	Ant2	2437	14.95	93.20	0.31	15.26	≤30.00	PASS
	Ant1	2462	15.67	93.20	0.31	15.98	≤30.00	PASS
	Ant2	2462	14.97	93.20	0.31	15.28	≤30.00	PASS
11N20MIMO	Ant1	2412	15.71	92.09	0.36	16.07	≤30.00	PASS
	Ant2	2412	15.14	92.09	0.36	15.50	≤30.00	PASS
	total	2412	---	---	---	18.80	≤30.00	PASS
	Ant1	2437	15.72	92.75	0.33	16.05	≤30.00	PASS
	Ant2	2437	14.90	92.75	0.33	15.23	≤30.00	PASS
	total	2437	---	---	---	18.67	≤30.00	PASS
	Ant1	2462	15.61	92.09	0.36	15.97	≤30.00	PASS
	Ant2	2462	15.02	92.09	0.36	15.38	≤30.00	PASS
11N40MIMO	Ant1	2422	13.81	86.49	0.63	14.44	≤30.00	PASS
	Ant2	2422	12.99	85.14	0.70	13.69	≤30.00	PASS
	total	2422	---	---	---	17.09	≤30.00	PASS
	Ant1	2437	13.90	86.49	0.63	14.53	≤30.00	PASS
	Ant2	2437	12.87	86.49	0.63	13.50	≤30.00	PASS
	total	2437	---	---	---	17.06	≤30.00	PASS
	Ant1	2452	13.73	86.49	0.63	14.36	≤30.00	PASS
	Ant2	2452	13.01	86.49	0.63	13.64	≤30.00	PASS
11AX20MIMO	Ant1	2412	15.53	90.83	0.42	15.95	≤30.00	PASS
	Ant2	2412	15.38	90.83	0.42	15.80	≤30.00	PASS
	total	2412	---	---	---	18.89	≤30.00	PASS
	Ant1	2437	15.58	90.00	0.46	16.04	≤30.00	PASS
	Ant2	2437	15.19	90.83	0.42	15.61	≤30.00	PASS
	total	2437	---	---	---	18.84	≤30.00	PASS
	Ant1	2462	15.42	90.83	0.42	15.84	≤30.00	PASS
	Ant2	2462	15.16	90.83	0.42	15.58	≤30.00	PASS
11AX40MIMO	Ant1	2422	13.60	82.54	0.83	14.43	≤30.00	PASS
	Ant2	2422	13.33	83.87	0.76	14.09	≤30.00	PASS
	total	2422	---	---	---	17.27	≤30.00	PASS
	Ant1	2437	13.75	82.54	0.83	14.58	≤30.00	PASS
	Ant2	2437	13.28	82.54	0.83	14.11	≤30.00	PASS
	total	2437	---	---	---	17.36	≤30.00	PASS
	Ant1	2452	13.62	83.87	0.76	14.38	≤30.00	PASS
	Ant2	2452	13.32	83.87	0.76	14.08	≤30.00	PASS
	total	2452	---	---	---	17.24	≤30.00	PASS

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.

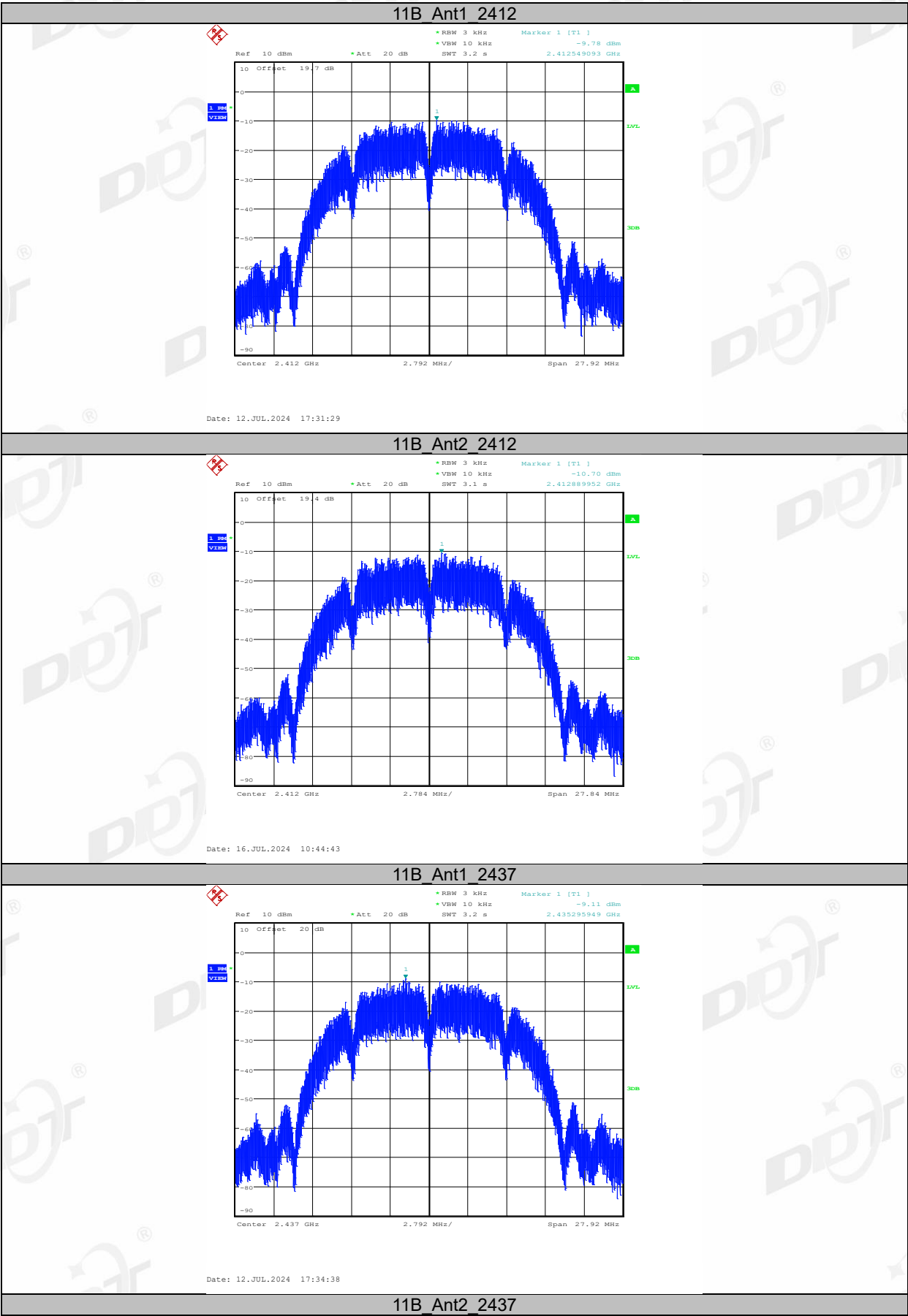
7.4. Test result

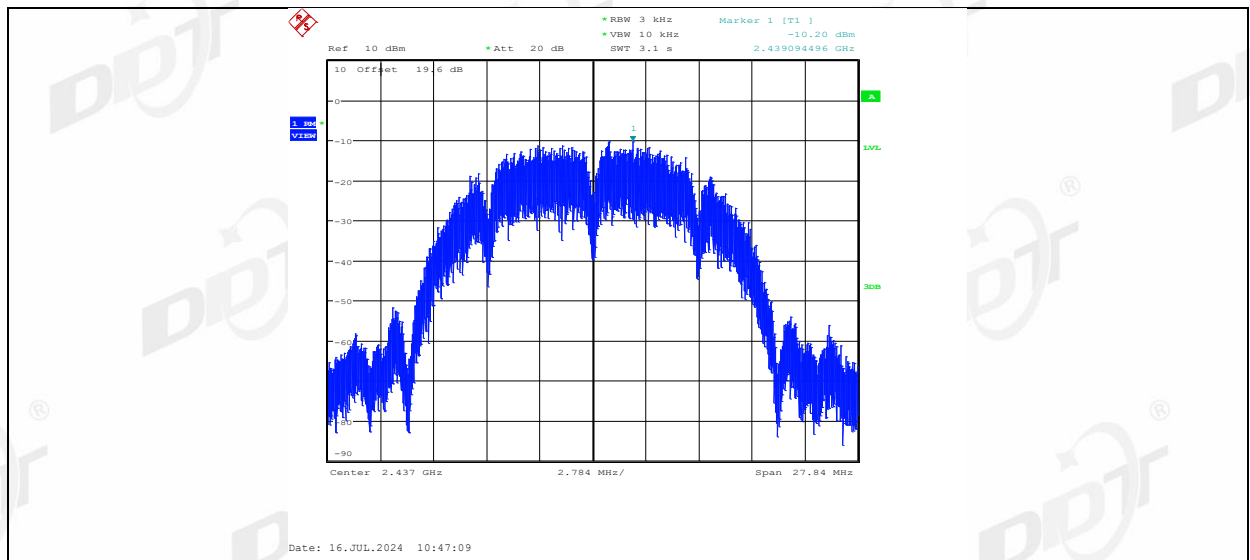
Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	26.58℃,40.0%RH	Test Date:	2024.07.12-2024.07.23
Test Power Supply:	AC120V/60Hz	Sample Number:	S24052212-001

Test Mode	Antenna	Frequency [MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.78	≤8.00	PASS
	Ant2	2412	-10.70	≤8.00	PASS
	Ant1	2437	-9.11	≤8.00	PASS
	Ant2	2437	-10.20	≤8.00	PASS
	Ant1	2462	-10.07	≤8.00	PASS
	Ant2	2462	-9.36	≤8.00	PASS
11G	Ant1	2412	-10.98	≤8.00	PASS
	Ant2	2412	-13.34	≤8.00	PASS
	Ant1	2437	-11.59	≤8.00	PASS
	Ant2	2437	-12.78	≤8.00	PASS
	Ant1	2462	-12.67	≤8.00	PASS
	Ant2	2462	-13.26	≤8.00	PASS
11N20MIMO	Ant1	2412	-11.78	≤8.00	PASS
	Ant2	2412	-11.34	≤8.00	PASS
	total	2412	-8.54	≤8.00	PASS
	Ant1	2437	-11.84	≤8.00	PASS
	Ant2	2437	-12.31	≤8.00	PASS
	total	2437	-9.06	≤8.00	PASS
	Ant1	2462	-11.91	≤8.00	PASS
	Ant2	2462	-11.99	≤8.00	PASS
	total	2462	-8.94	≤8.00	PASS
	Ant1	2422	-21.40	≤8.00	PASS
11N40MIMO	Ant2	2422	-22.85	≤8.00	PASS
	total	2422	-19.05	≤8.00	PASS
	Ant1	2437	-22.03	≤8.00	PASS
	Ant2	2437	-21.70	≤8.00	PASS
	total	2437	-18.85	≤8.00	PASS
	Ant1	2452	-22.73	≤8.00	PASS
	Ant2	2452	-22.73	≤8.00	PASS
	total	2452	-19.72	≤8.00	PASS
11AX20MIMO	Ant1	2412	-10.41	≤8.00	PASS
	Ant2	2412	-10.08	≤8.00	PASS
	total	2412	-7.23	≤8.00	PASS
	Ant1	2437	-9.24	≤8.00	PASS
	Ant2	2437	-11.00	≤8.00	PASS
	total	2437	-7.02	≤8.00	PASS
	Ant1	2462	-11.80	≤8.00	PASS
	Ant2	2462	-10.88	≤8.00	PASS
	total	2462	-8.31	≤8.00	PASS
11AX40MIMO	Ant1	2422	-23.26	≤8.00	PASS
	Ant2	2422	-23.78	≤8.00	PASS
	total	2422	-20.50	≤8.00	PASS
	Ant1	2437	-22.77	≤8.00	PASS
	Ant2	2437	-23.83	≤8.00	PASS
	total	2437	-20.26	≤8.00	PASS
	Ant1	2452	-23.62	≤8.00	PASS
	Ant2	2452	-23.62	≤8.00	PASS
	total	2452	-20.61	≤8.00	PASS

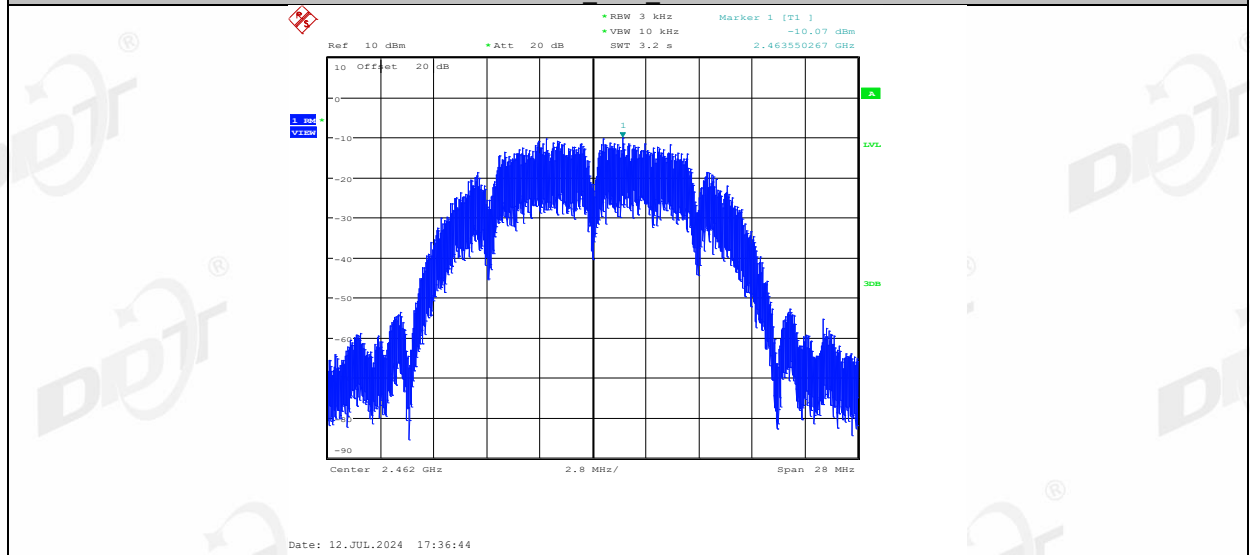
Note: The Duty Cycle Factor is compensated in the graph.

7.5. Test graphs

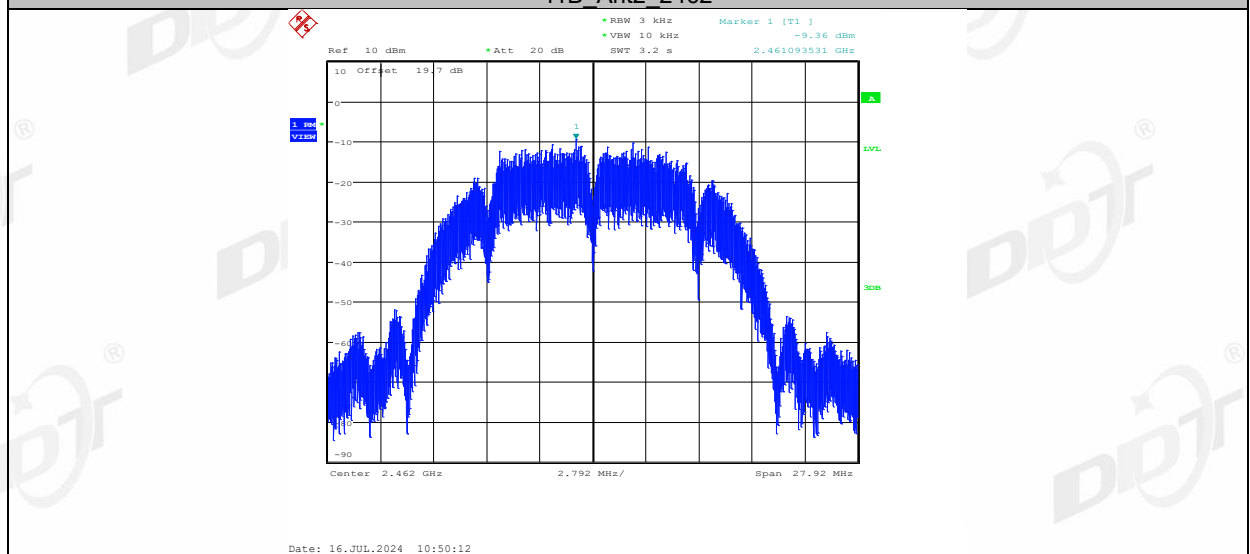




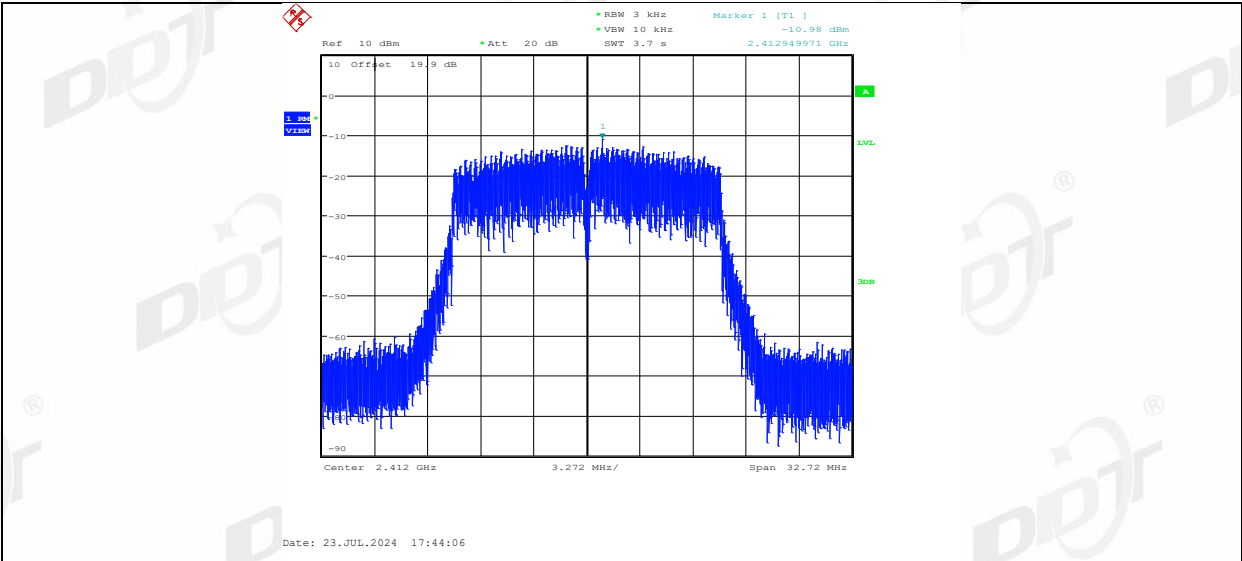
11B_Ant1_2462



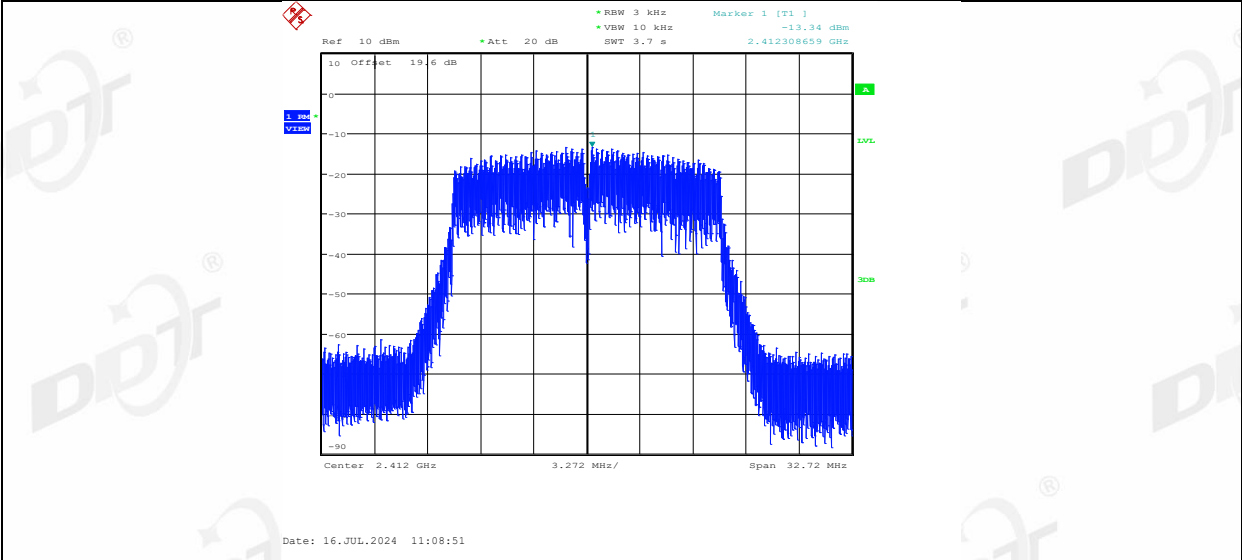
11B_Ant2_2462



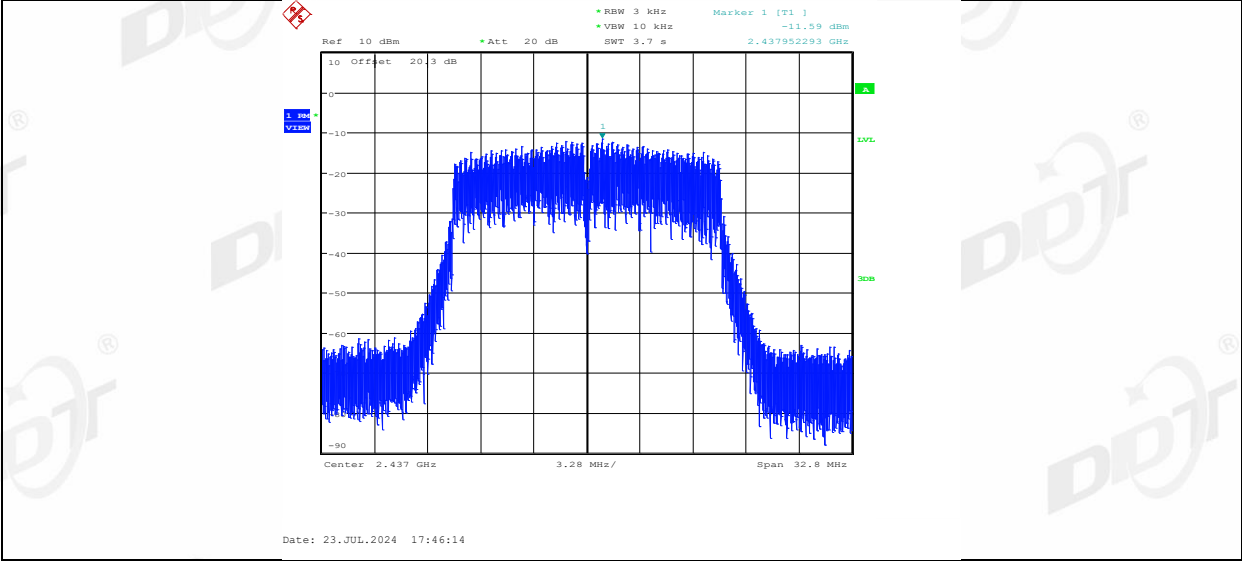
11G	Ant1	2412
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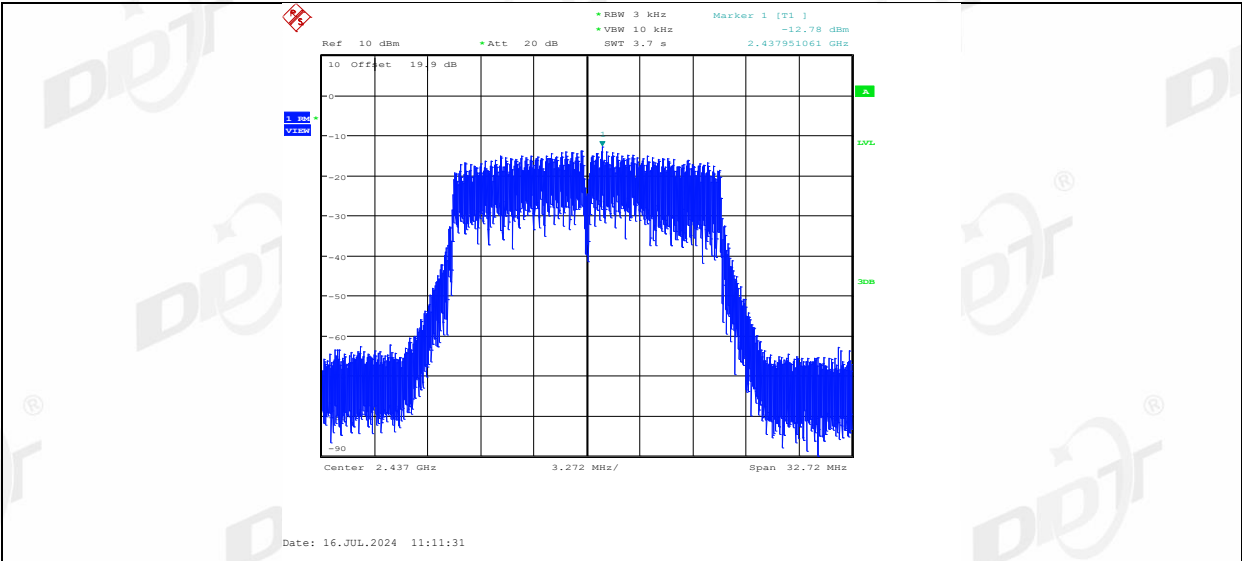
11G_Ant2_2412



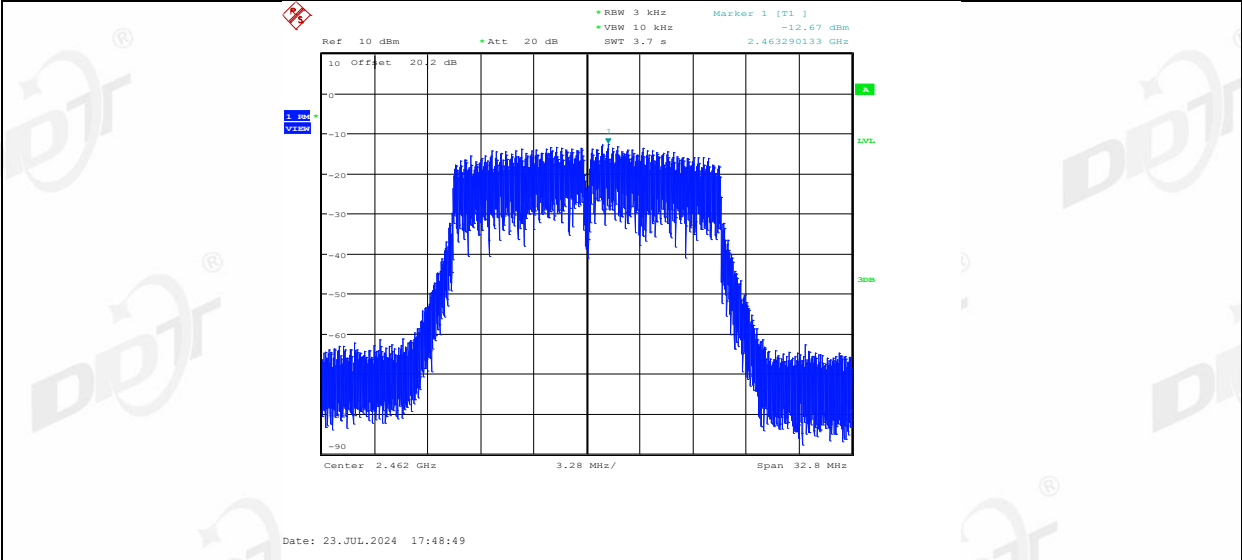
11G_Ant1_2437



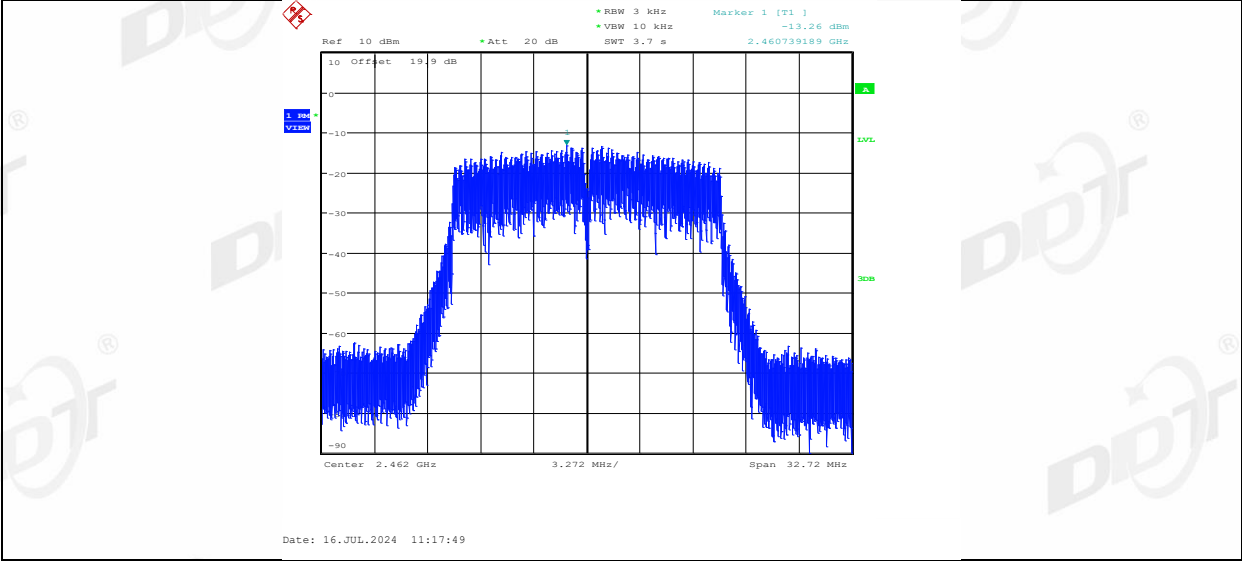
11G_Ant2_2437



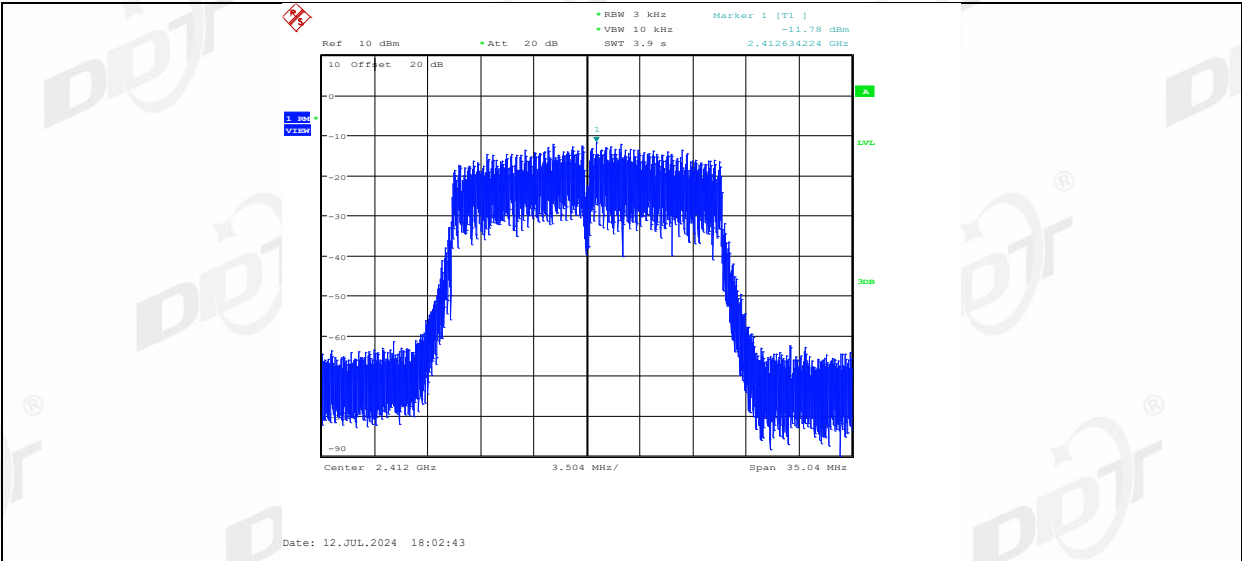
11G_Ant1_2462



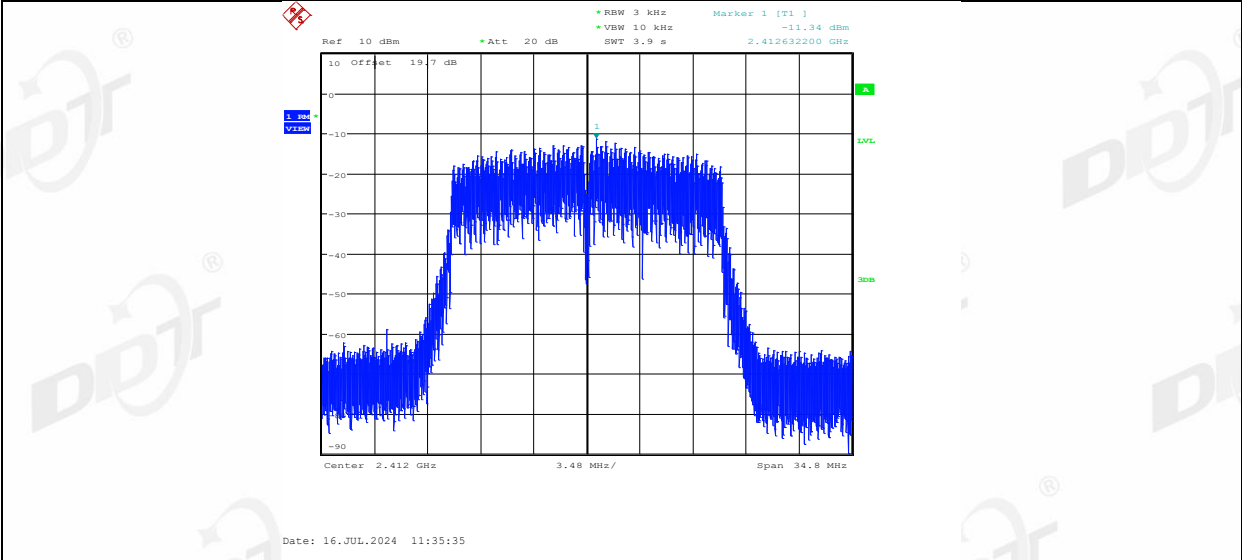
11G_Ant2_2462



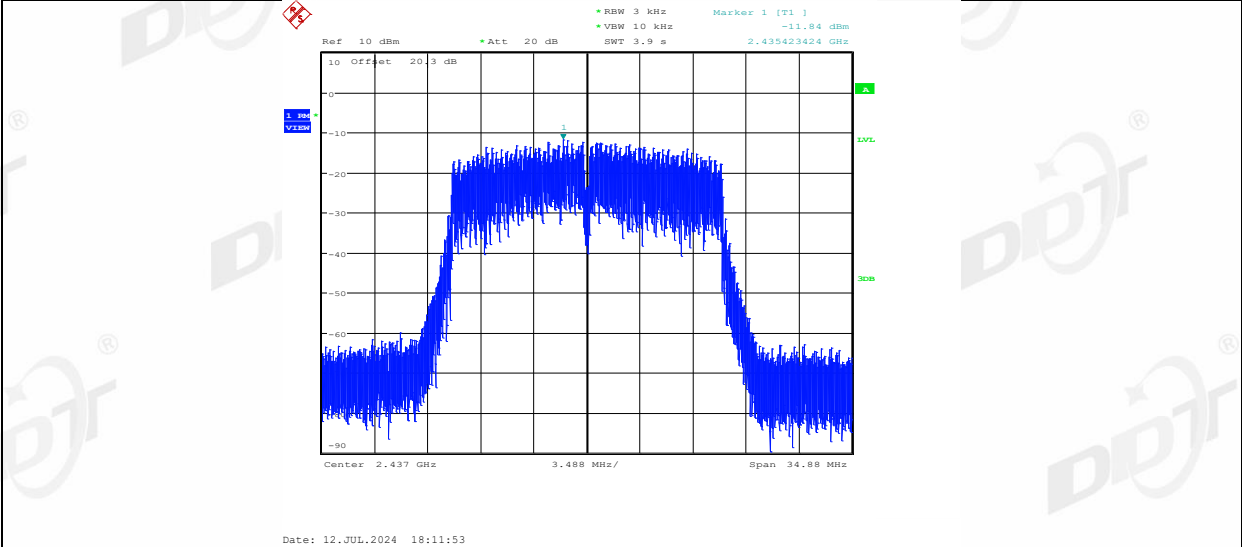
11N20MIMO_Ant1_2412



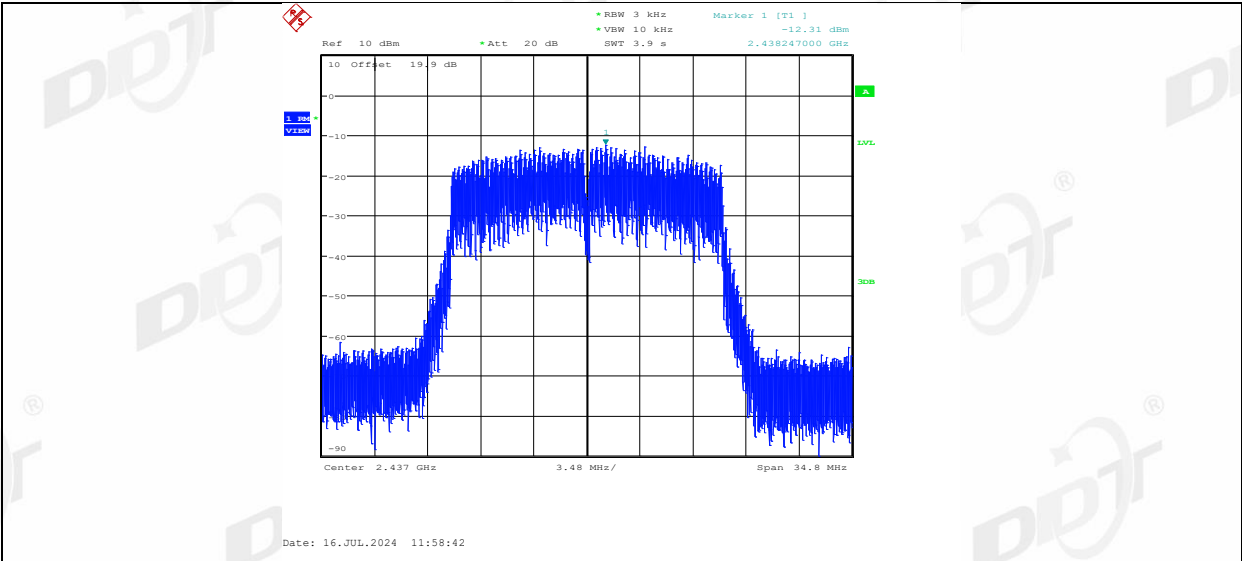
11N20MIMO_Ant2_2412



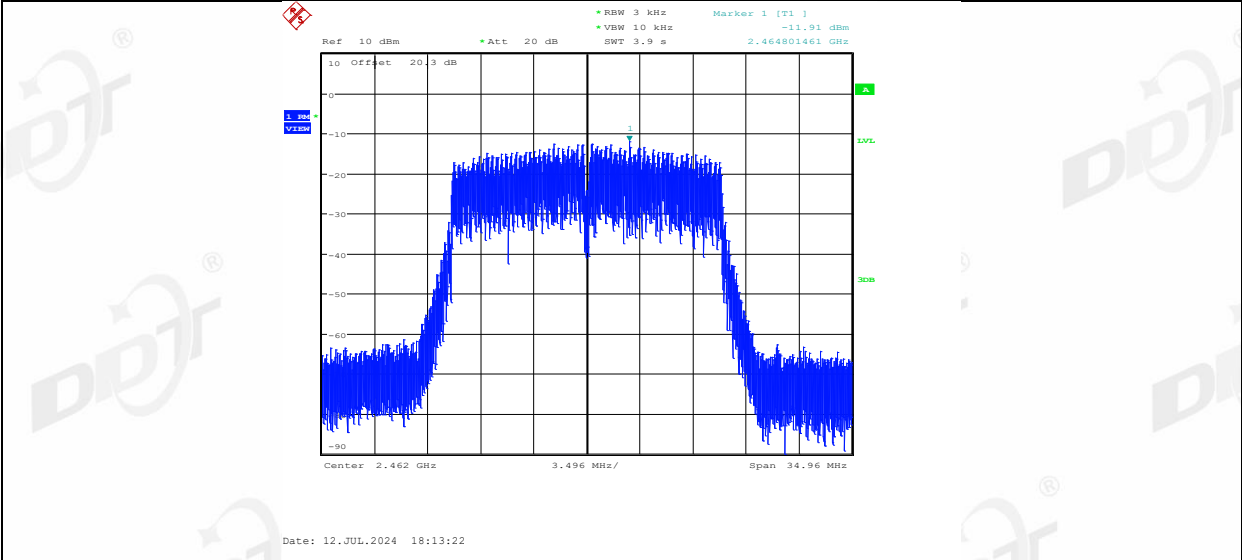
11N20MIMO_Ant1_2437



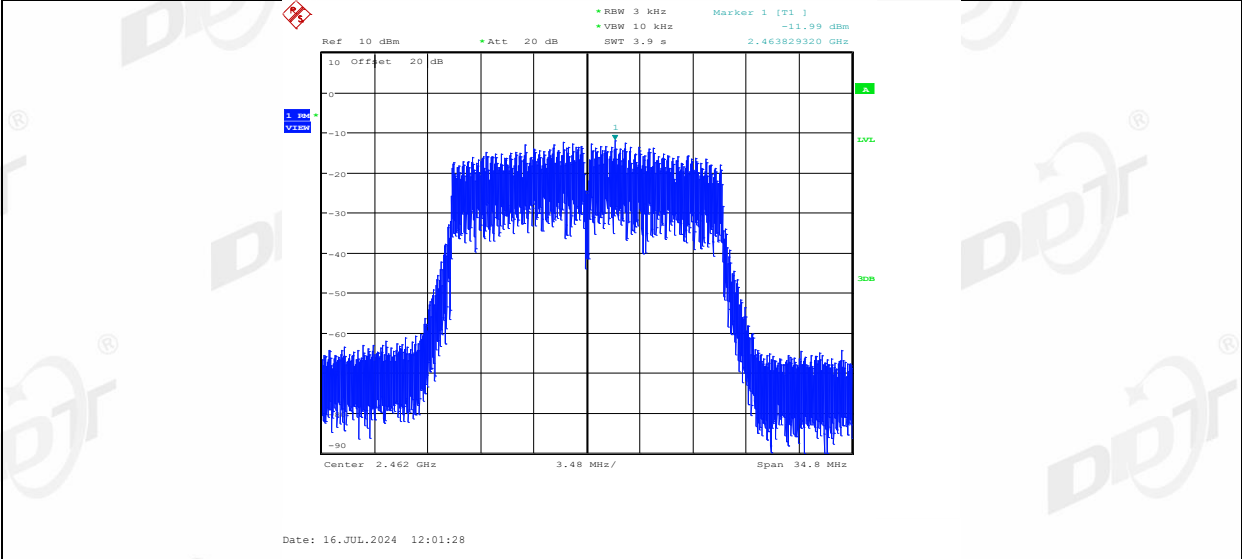
11N20MIMO_Ant2_2437



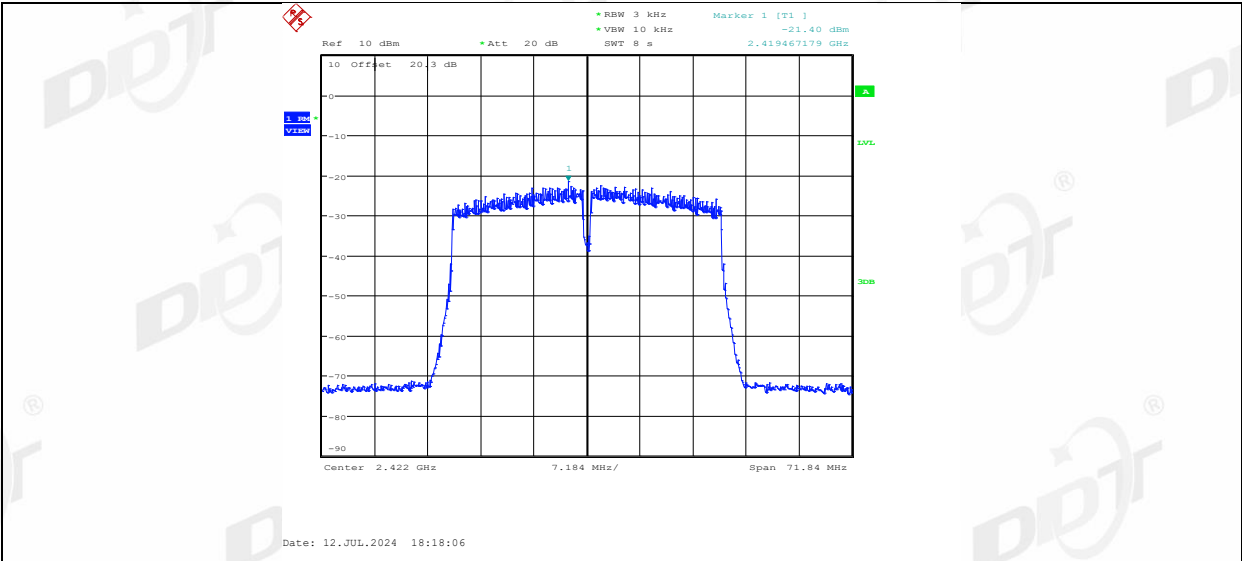
11N20MIMO_Ant1_2462



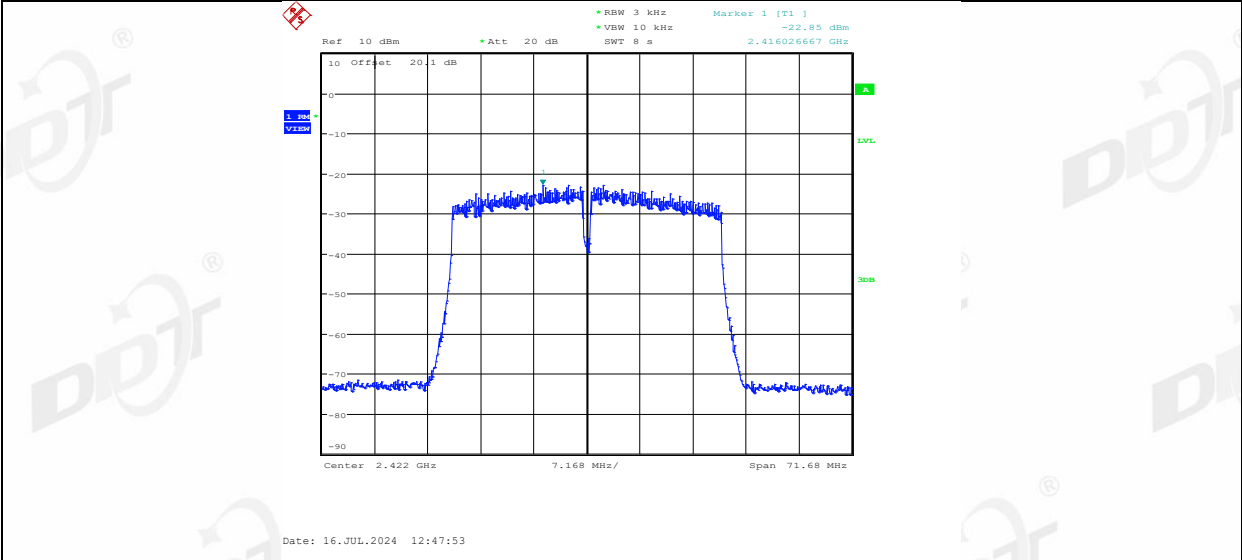
11N20MIMO_Ant2_2462



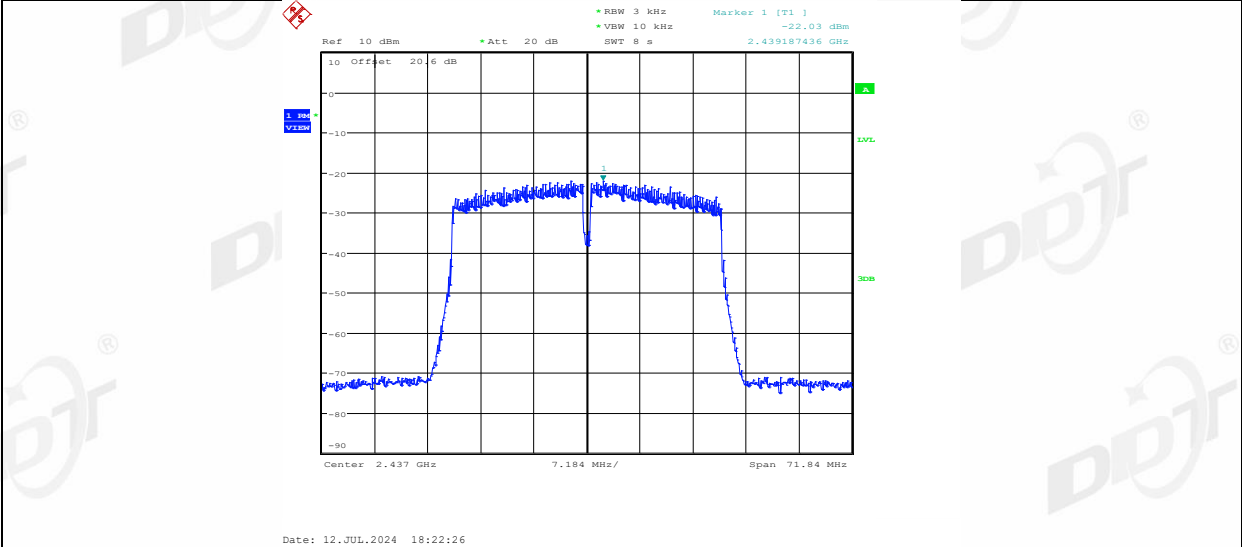
11N40MIMO_Ant1_2422



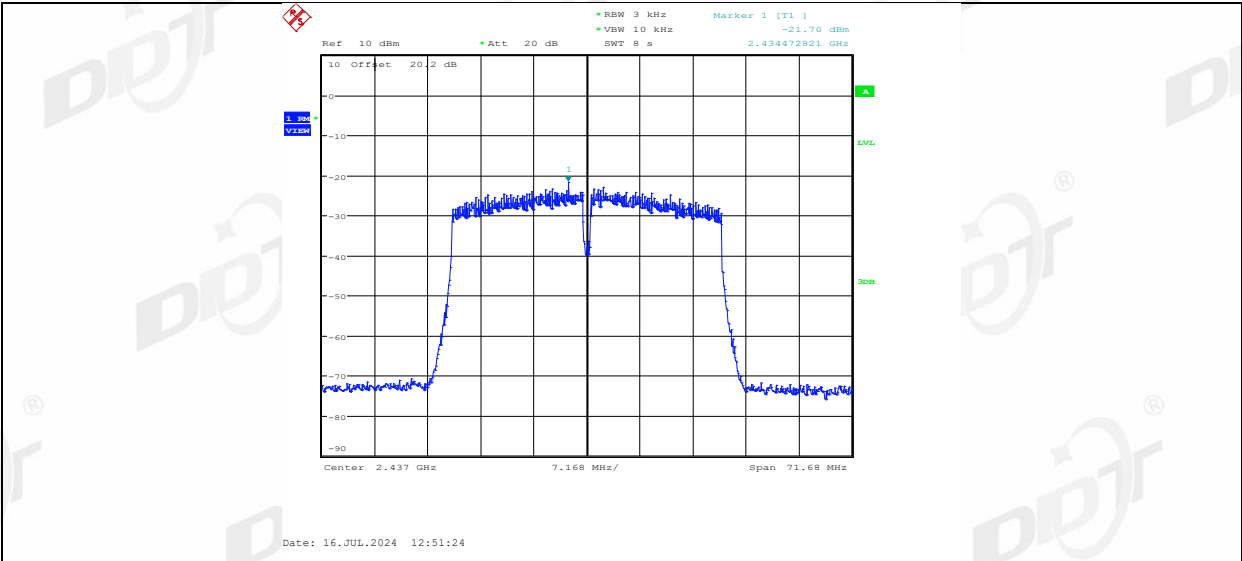
11N40MIMO_Ant2_2422



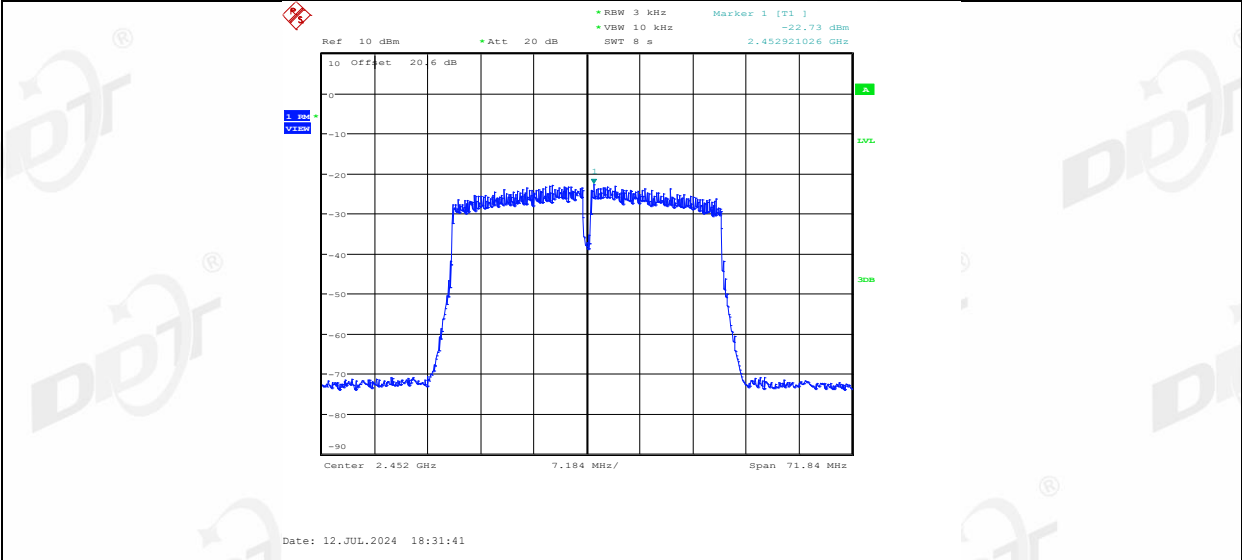
11N40MIMO_Ant1_2437



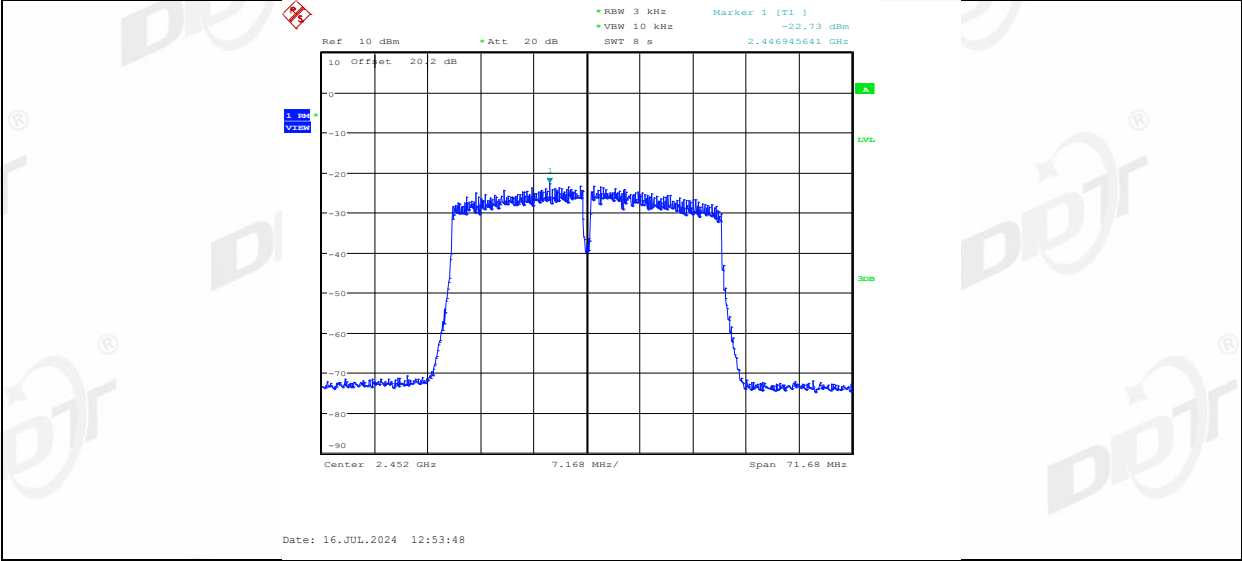
11N40MIMO_Ant2_2437



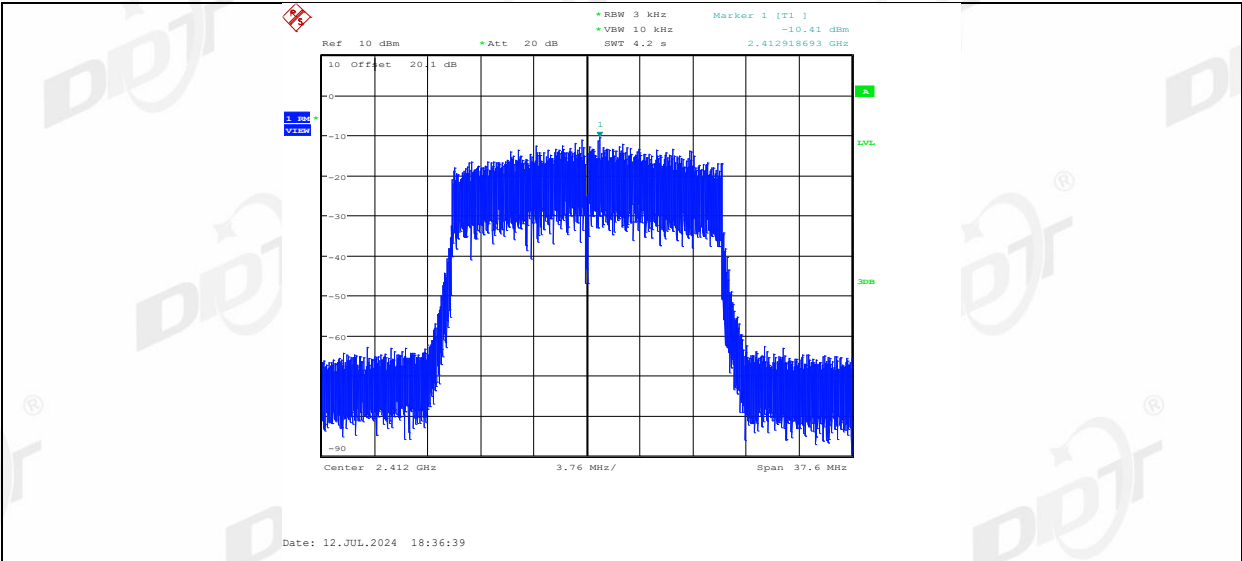
11N40MIMO_Ant1_2452



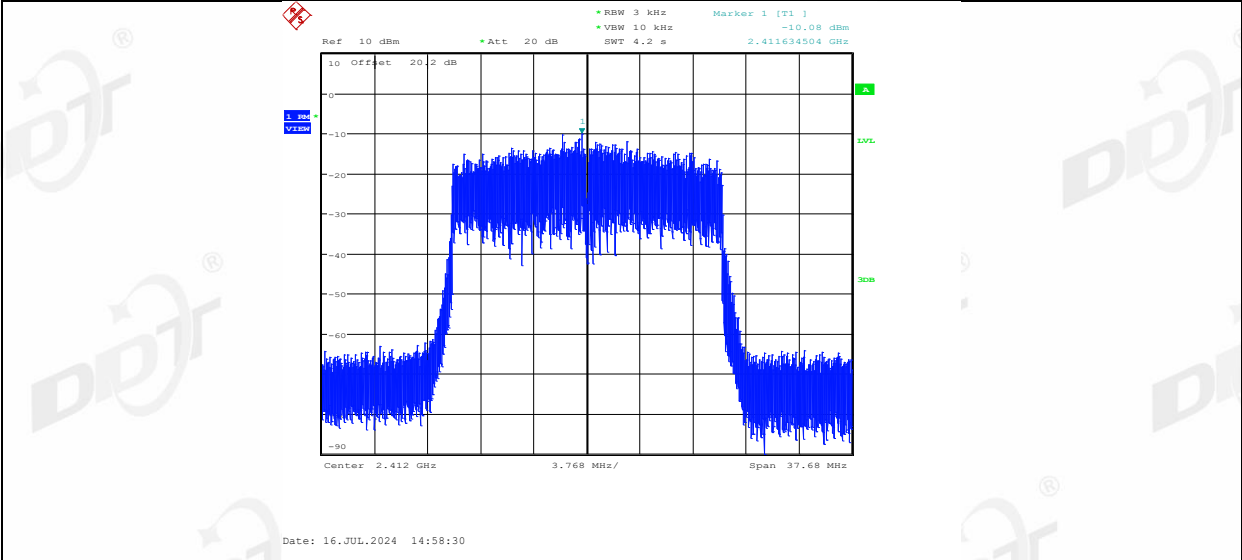
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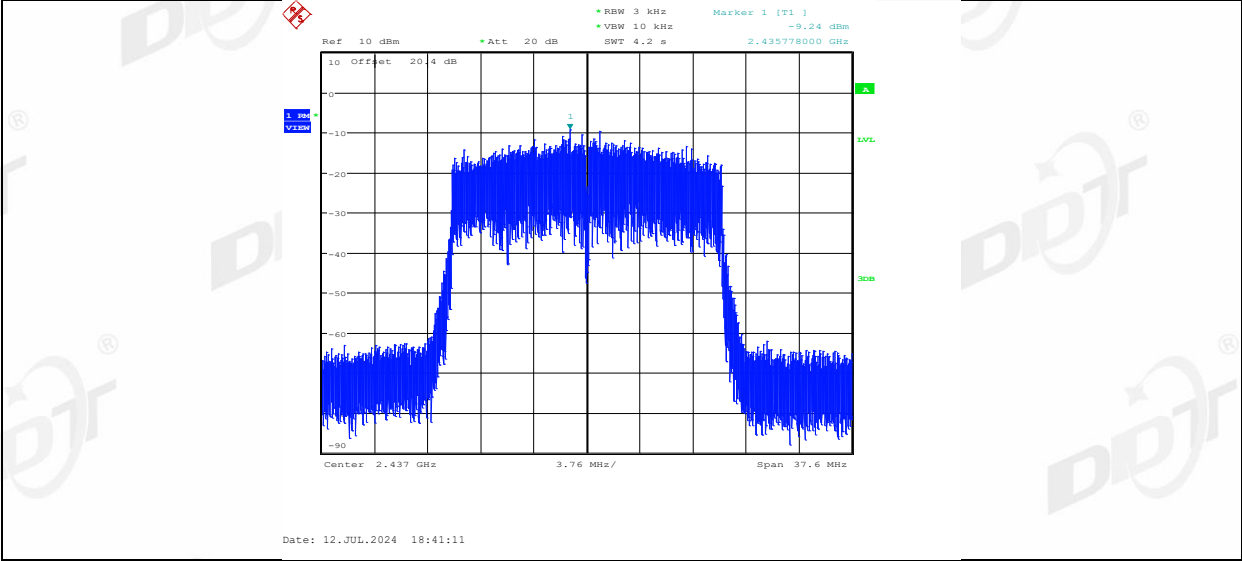
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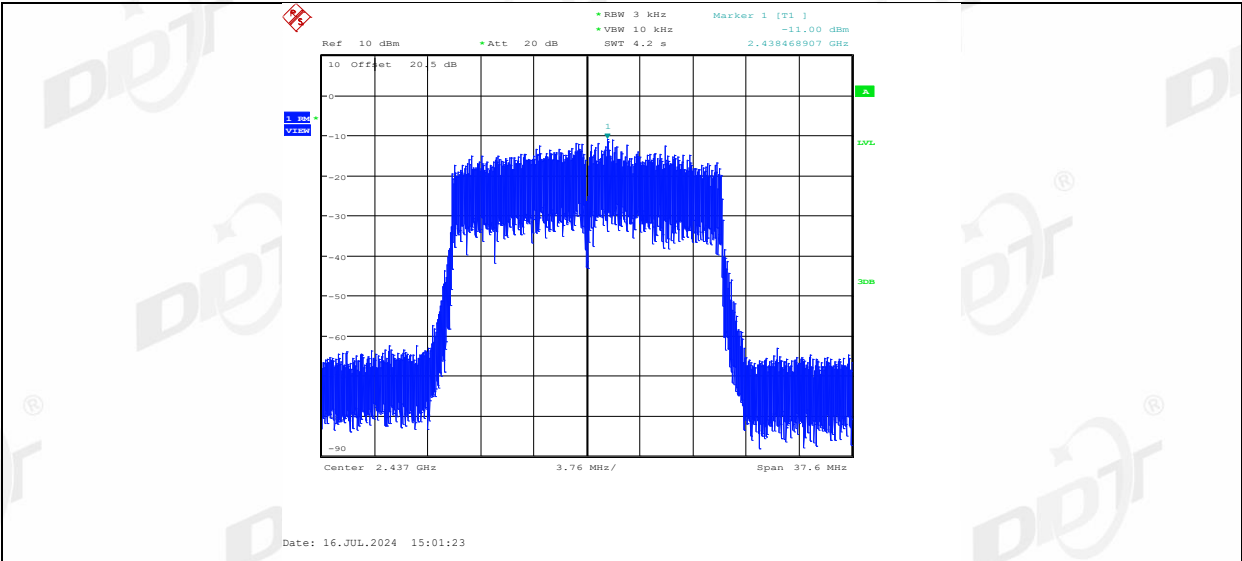
11AX20MIMO_Ant2_2412



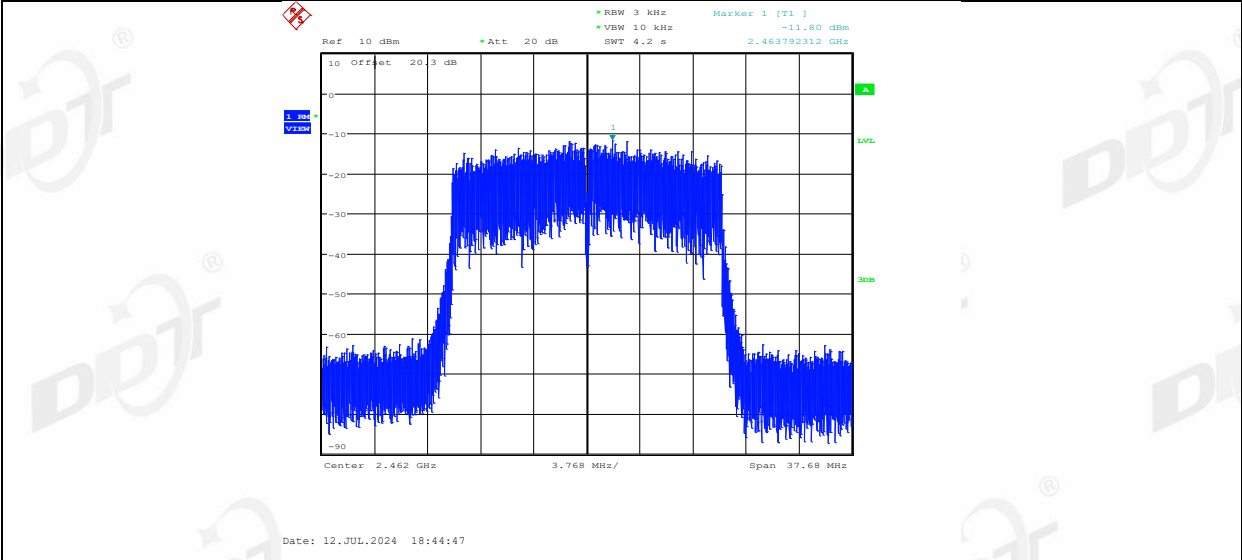
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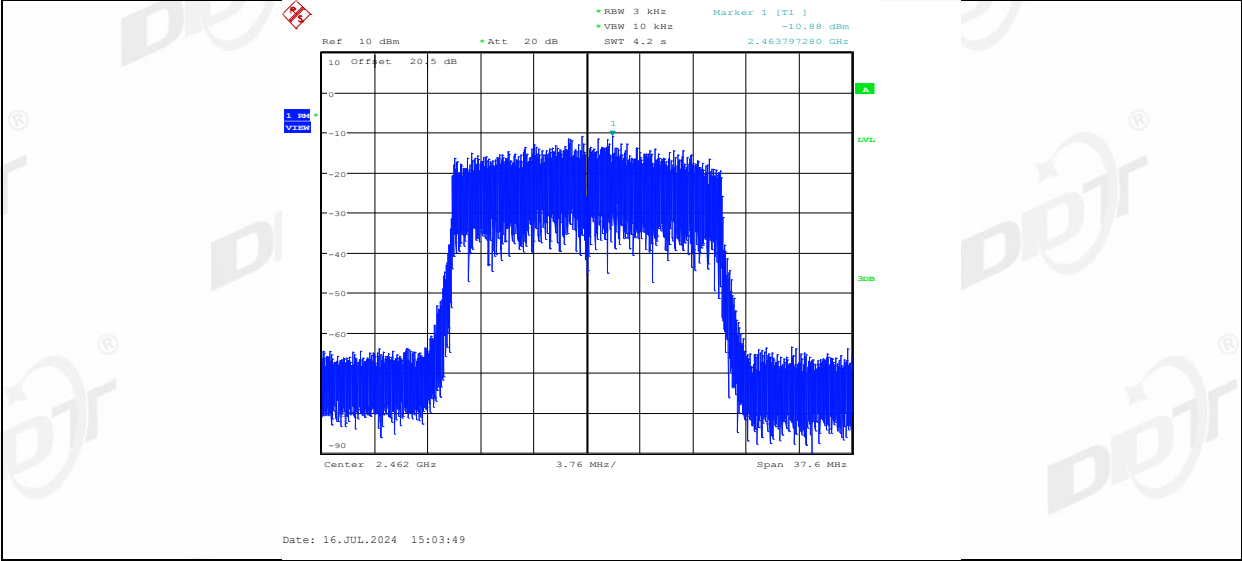
11AX20MIMO_Ant2_2437



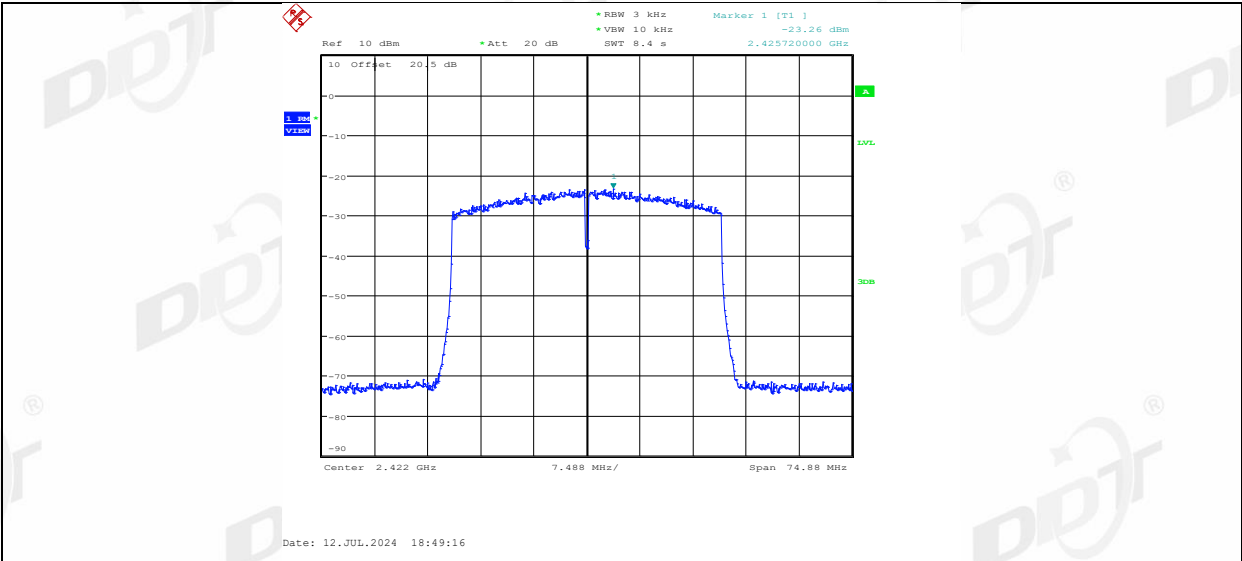
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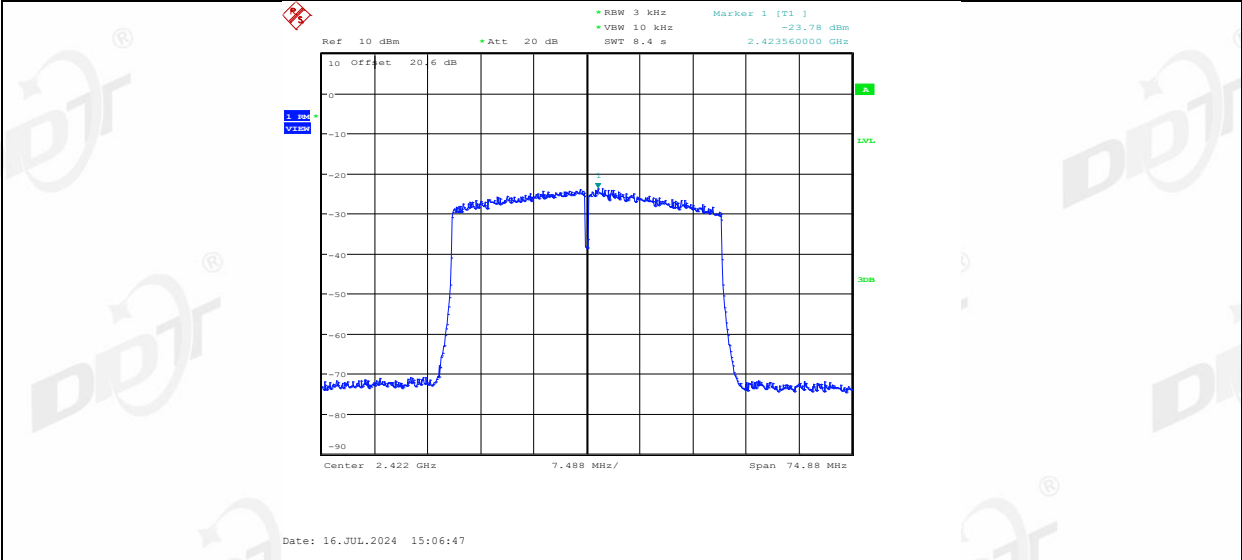
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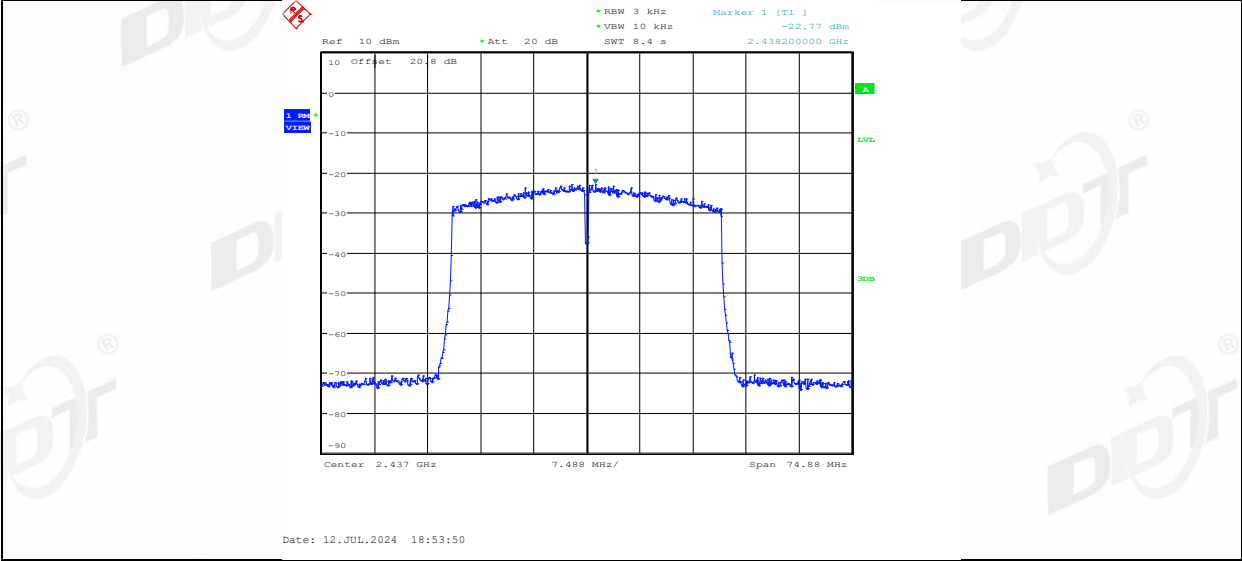
11AX40MIMO_Ant1_2422



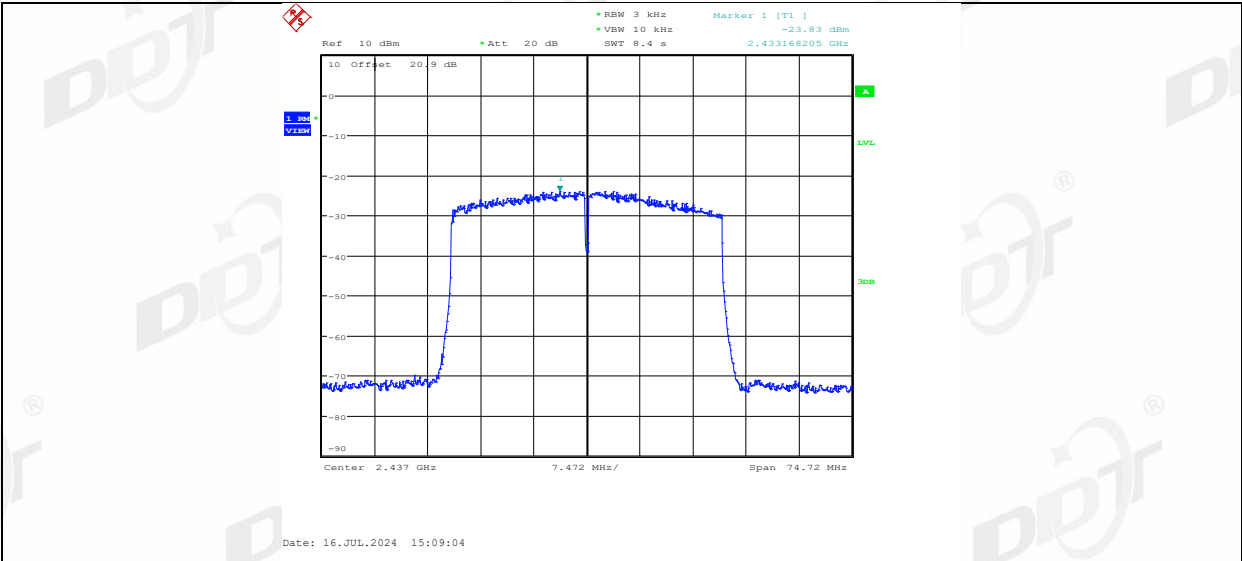
11AX40MIMO_Ant2_2422



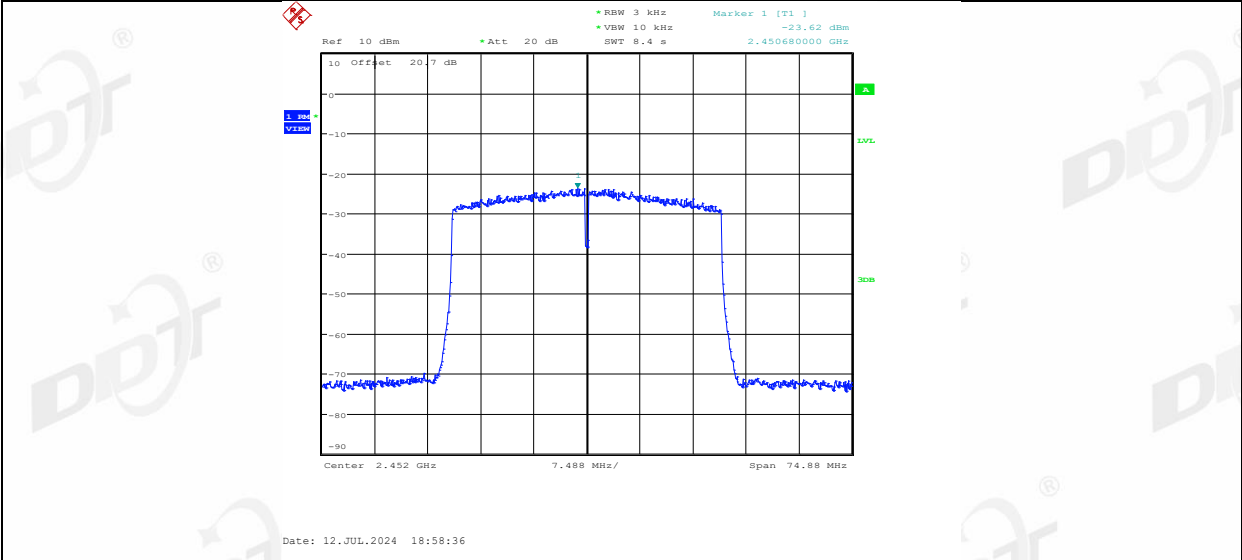
11AX40MIMO_Ant1_2437



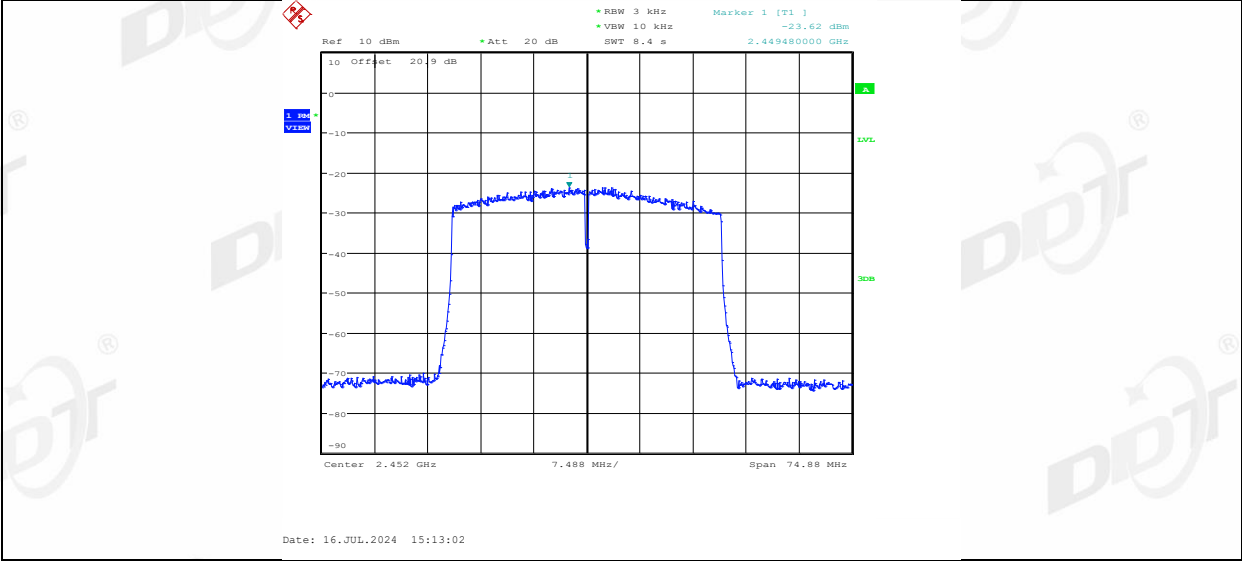
11AX40MIMO_Ant2_2437



11AX40MIMO_Ant1_2452

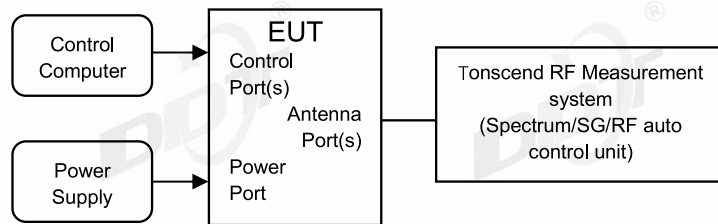


11AX40MIMO_Ant2_2452



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.

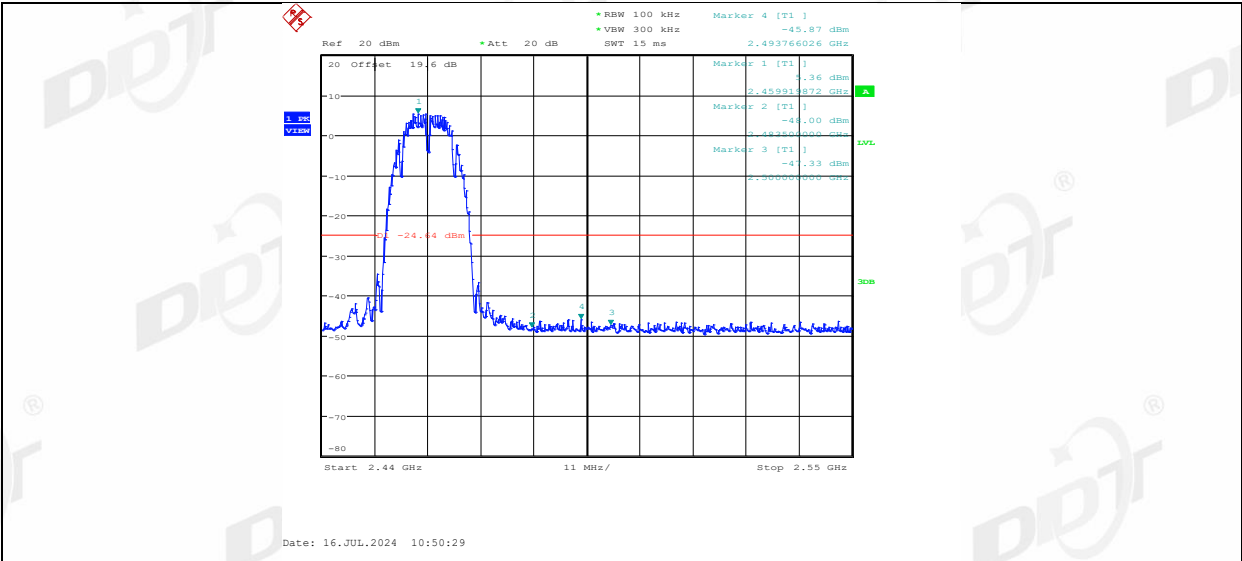
8.4. Test result

Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	26.58℃,40.0%RH	Test Date:	2024.07.12-2024.07.23
Test Power Supply:	AC120V/60Hz	Sample Number:	S24052212-001

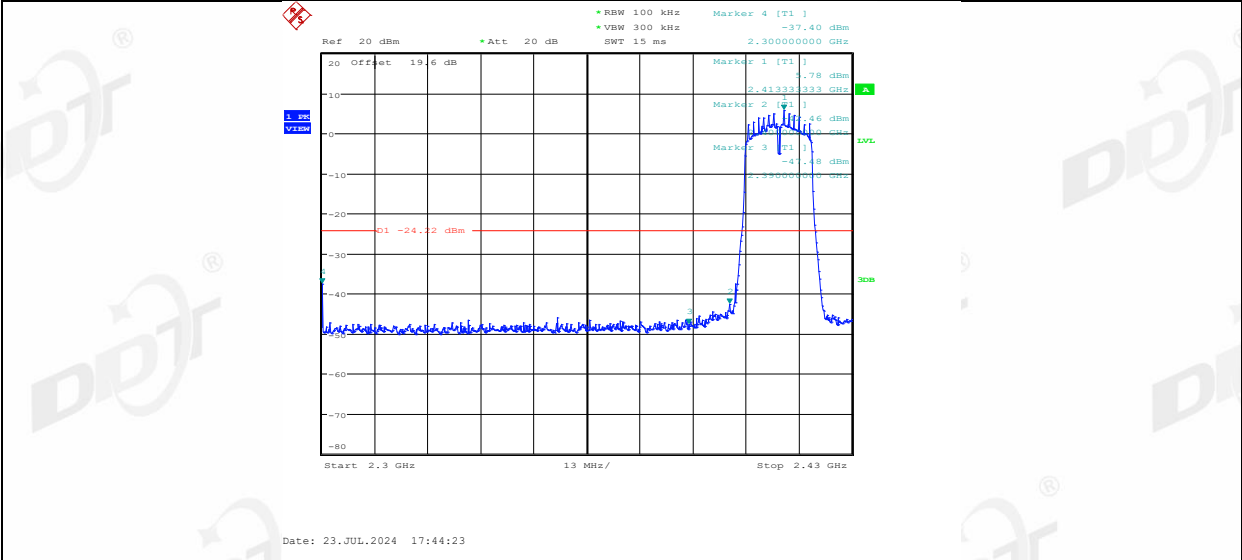
EUT Set Mode	CH or Frequency	Result(dBm)	EUT Set Mode	CH or Frequency	Result (dBm)
11b	CH1	Pass	11g	CH1	Pass
	CH11	Pass		CH11	Pass
11n HT 20	CH1	Pass	11n HT 40	CH3	Pass
	CH11	Pass		CH9	Pass
11ax HE 20	CH1	Pass	11ax HE 40	CH3	Pass
	CH11	Pass		CH9	Pass

8.5. Test graphs

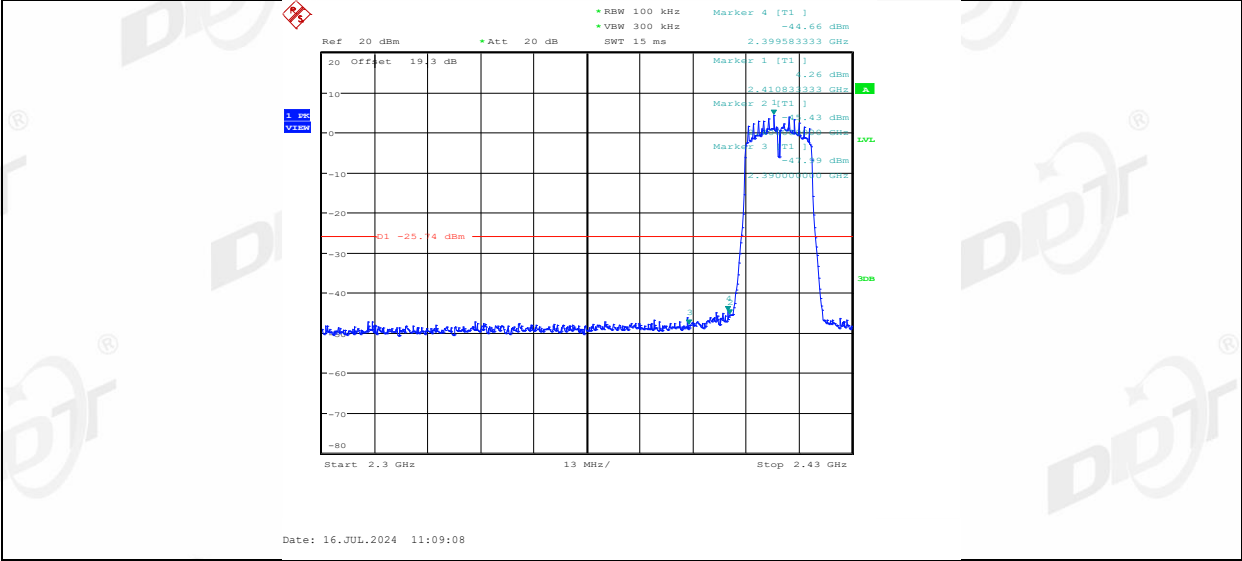




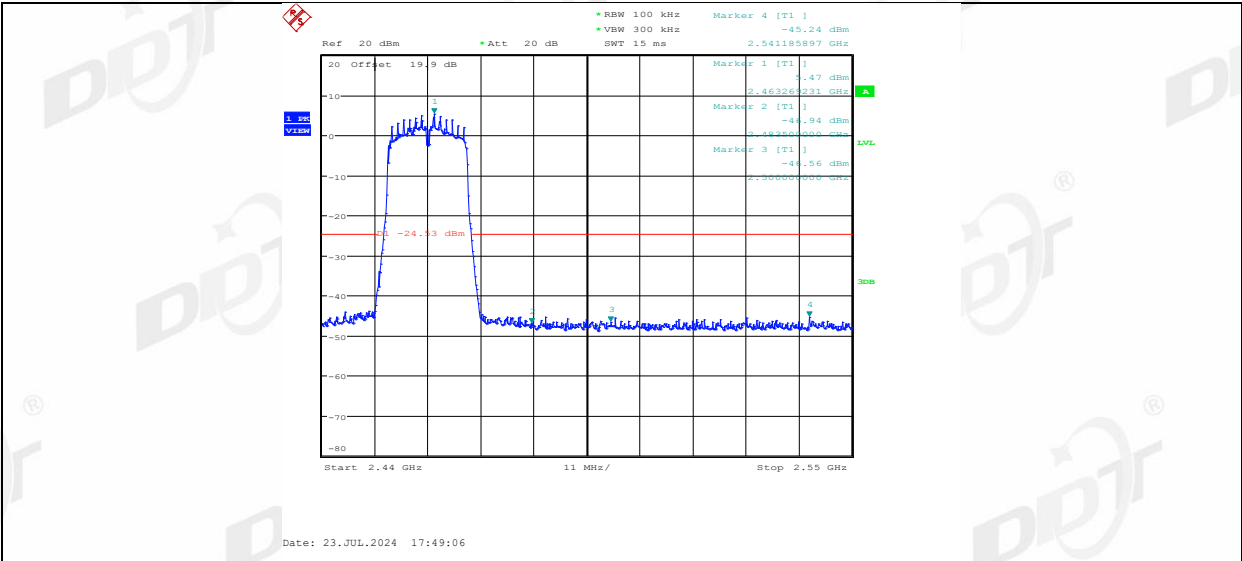
11G_Ant1_Low_2412



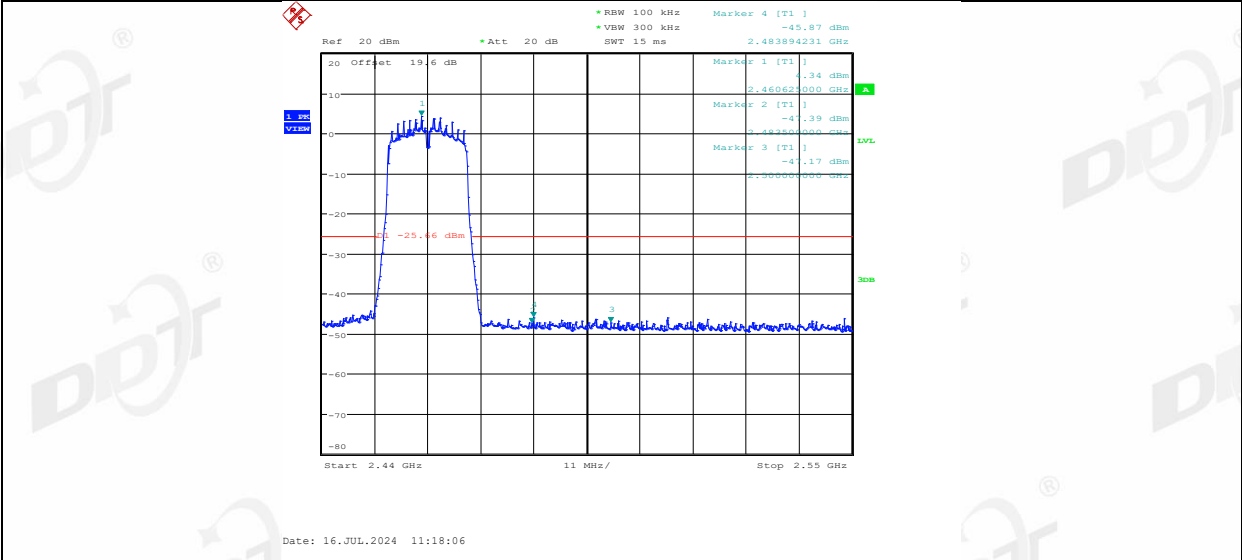
11G_Ant2_Low_2412



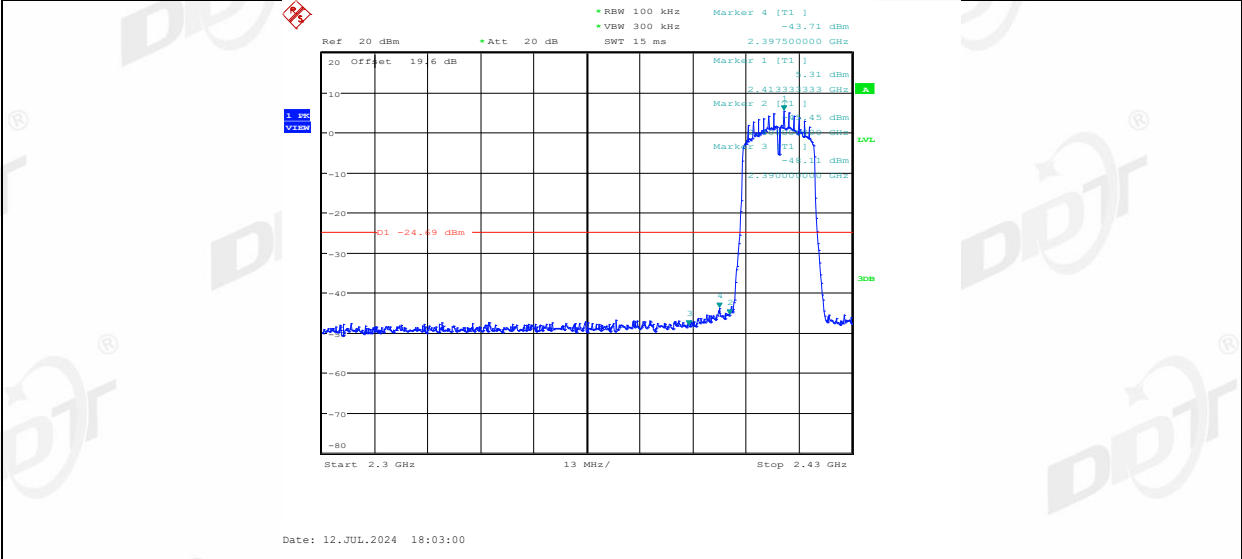
11G_Ant1_High_2462



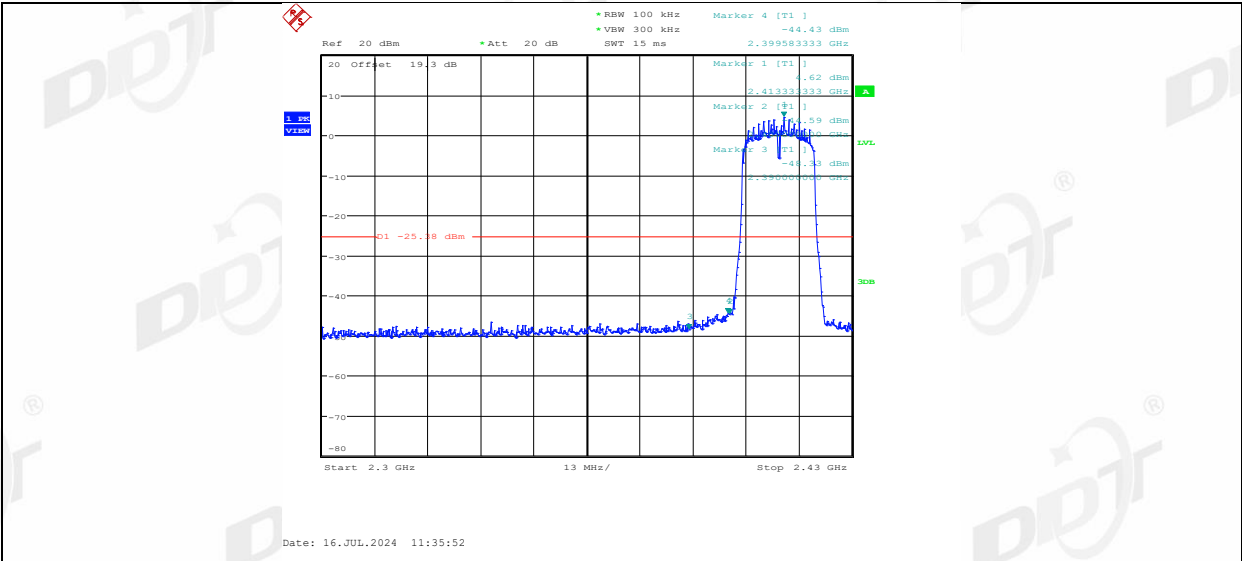
11G Ant2 High 2462



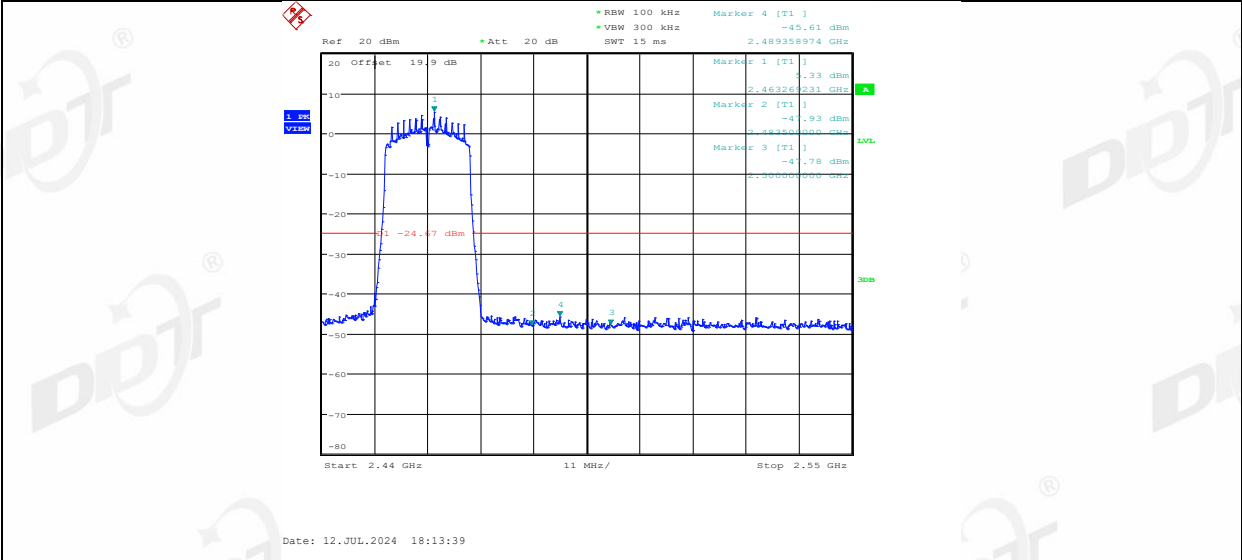
11N20MIMO Ant1 Low 2412



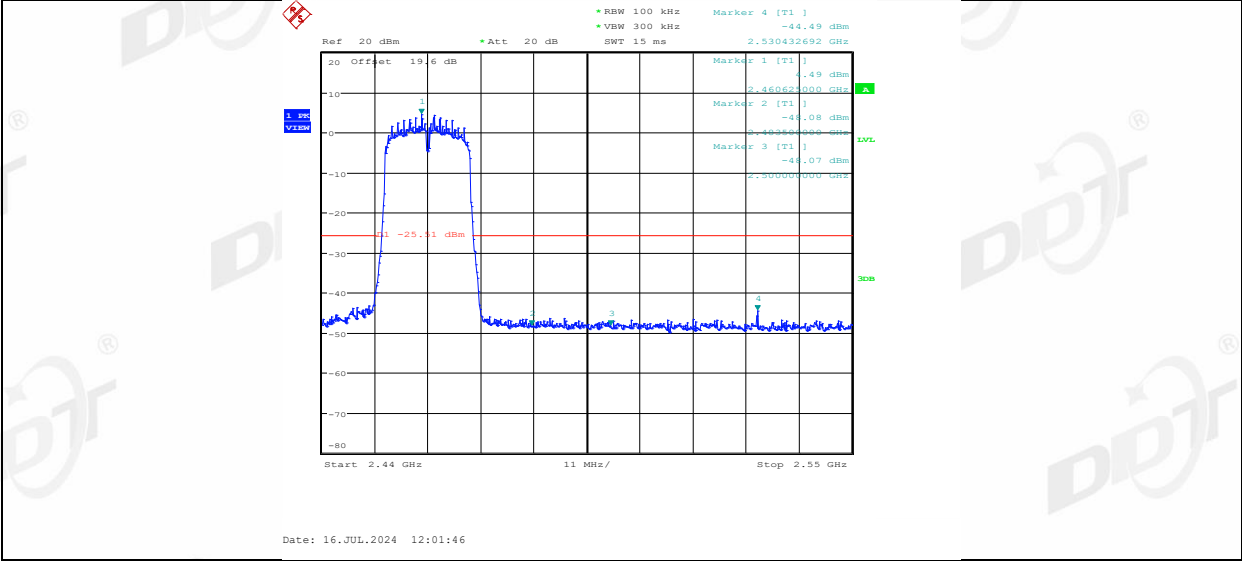
11N20MIMO Ant2 Low 2412



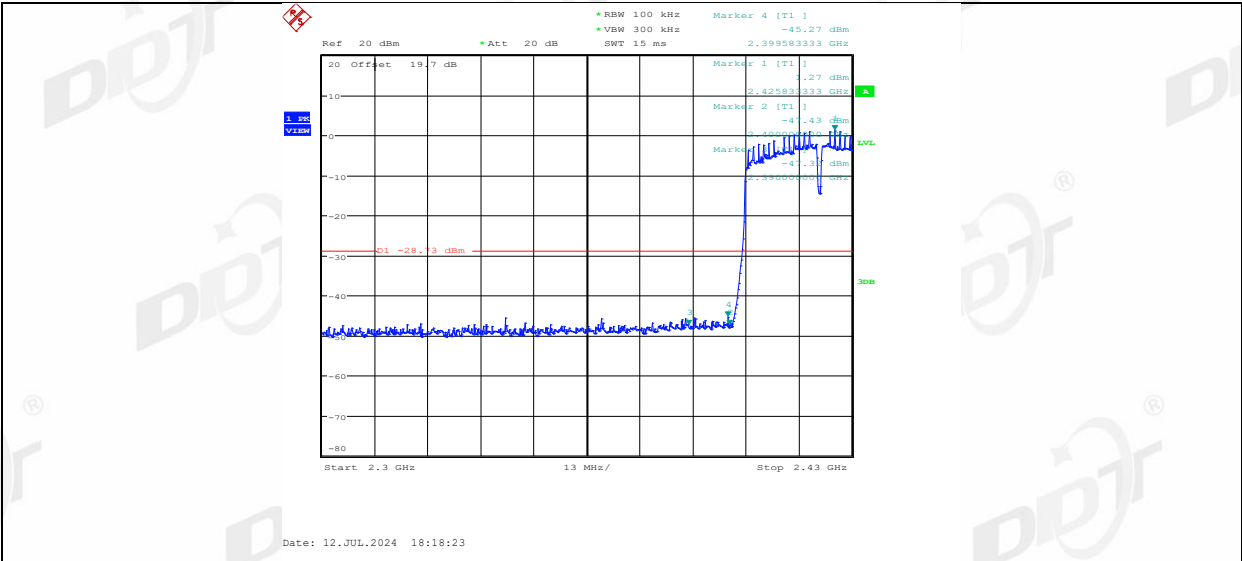
11N20MIMO_Ant1_High_2462



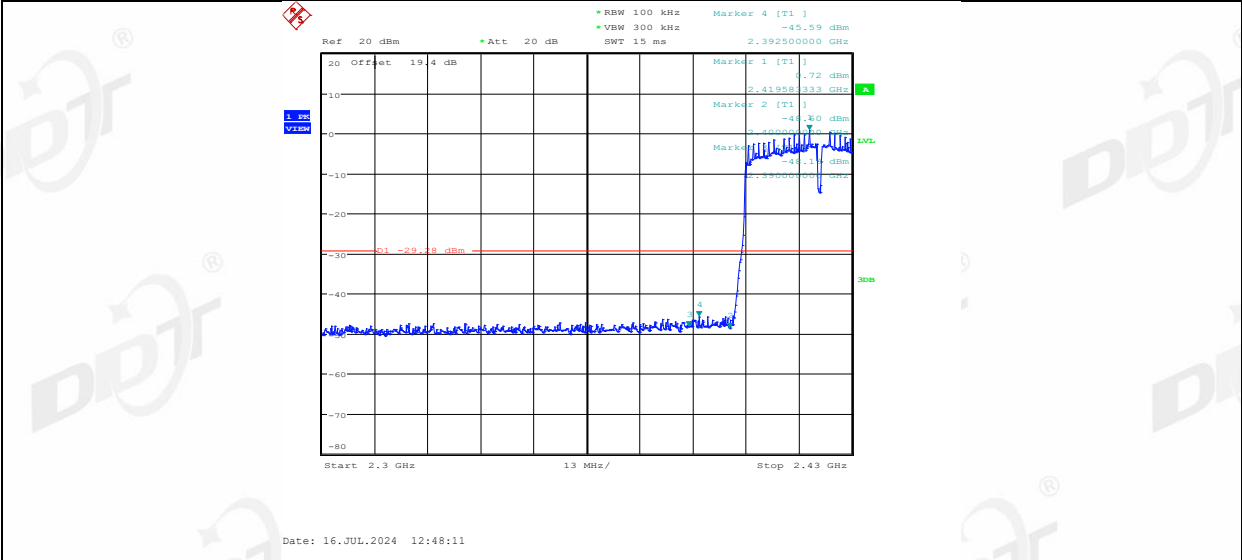
11N20MIMO_Ant2_High_2462



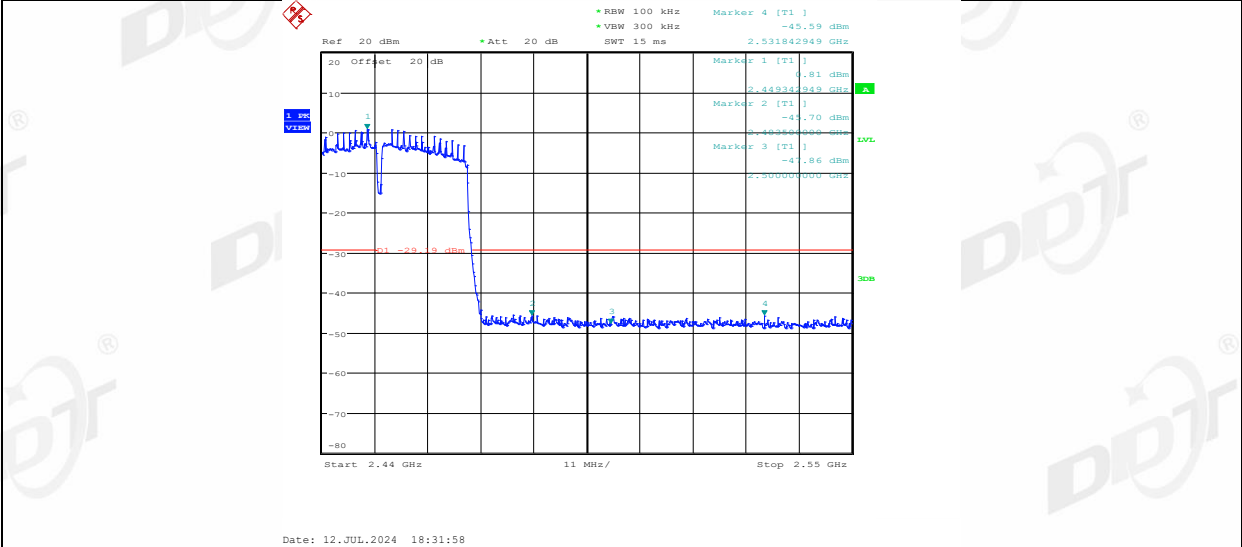
11N40MIMO_Ant1_Low_2422



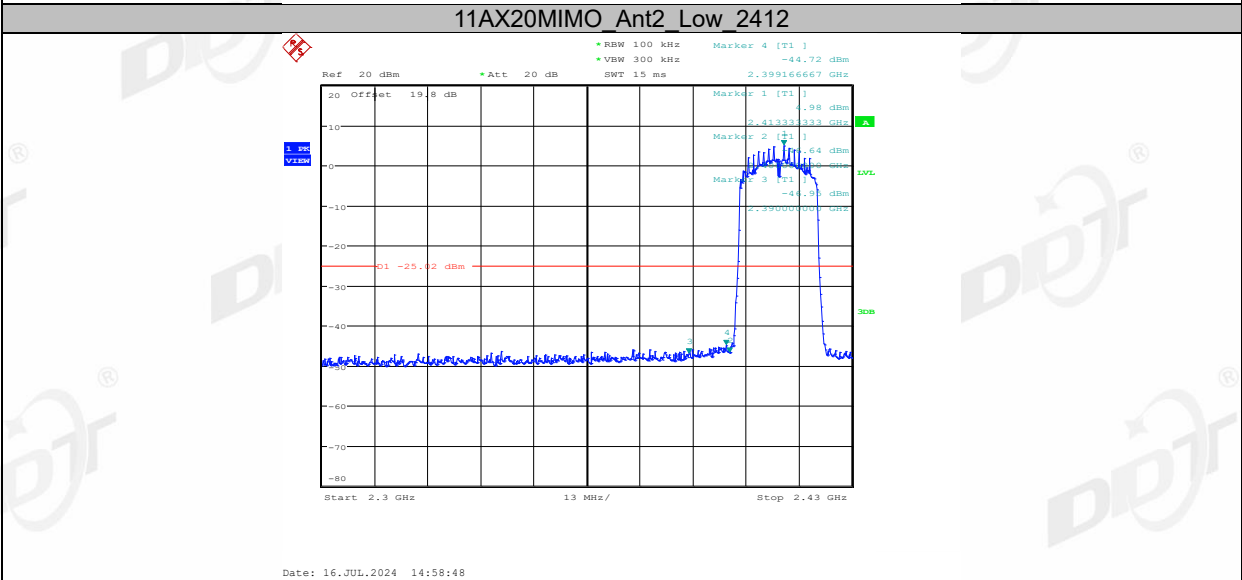
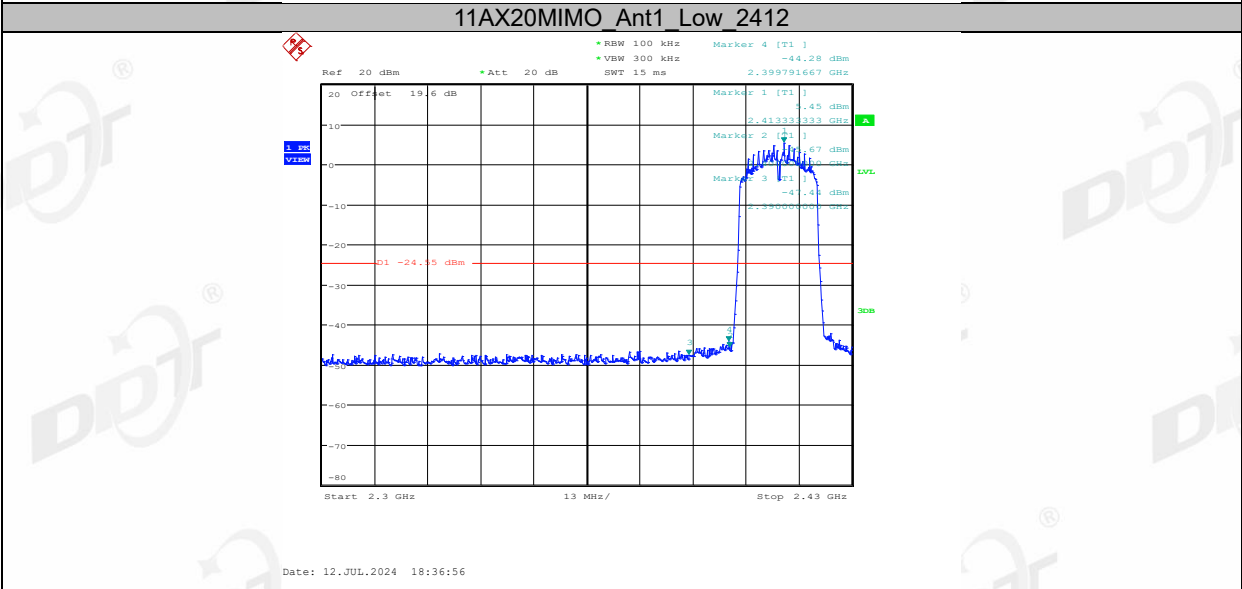
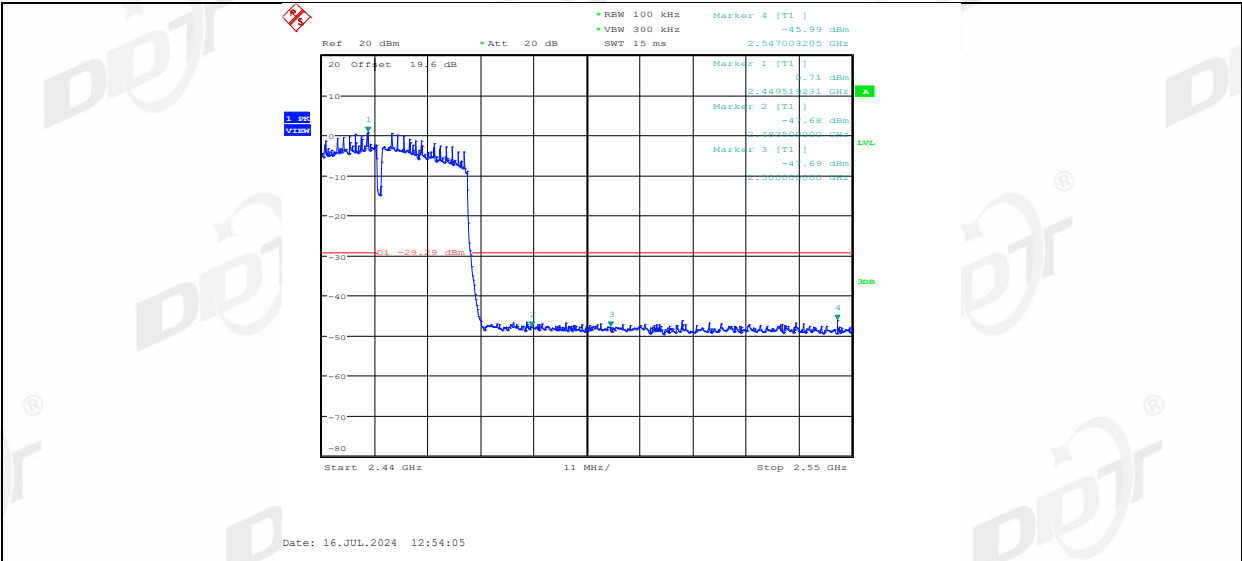
11N40MIMO_Ant2_Low_2422

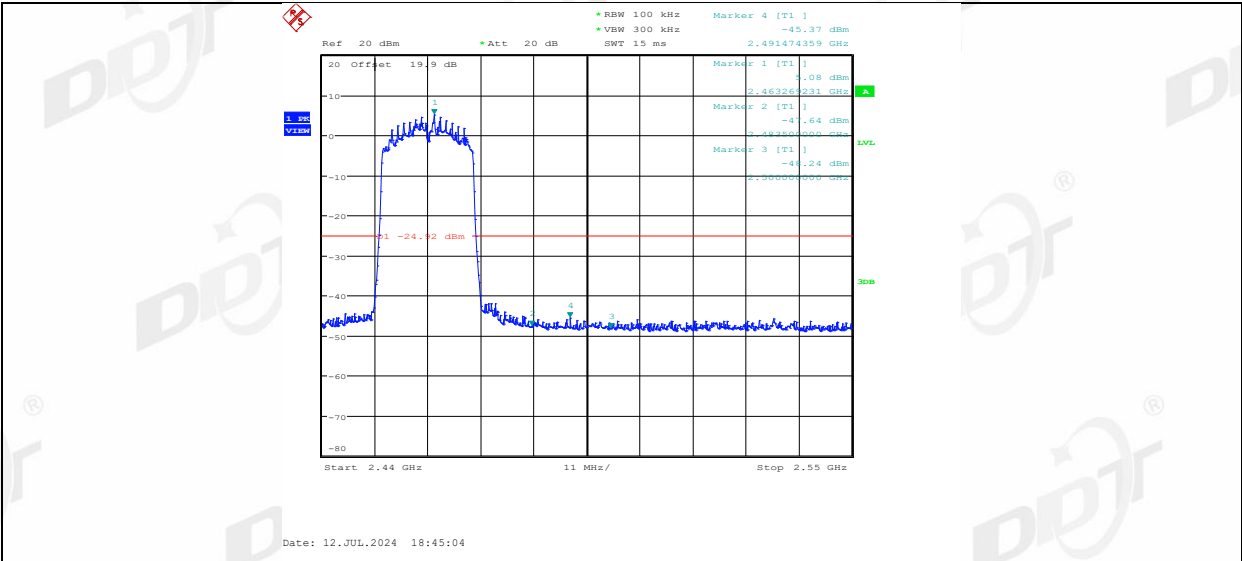


11N40MIMO_Ant1_High_2452

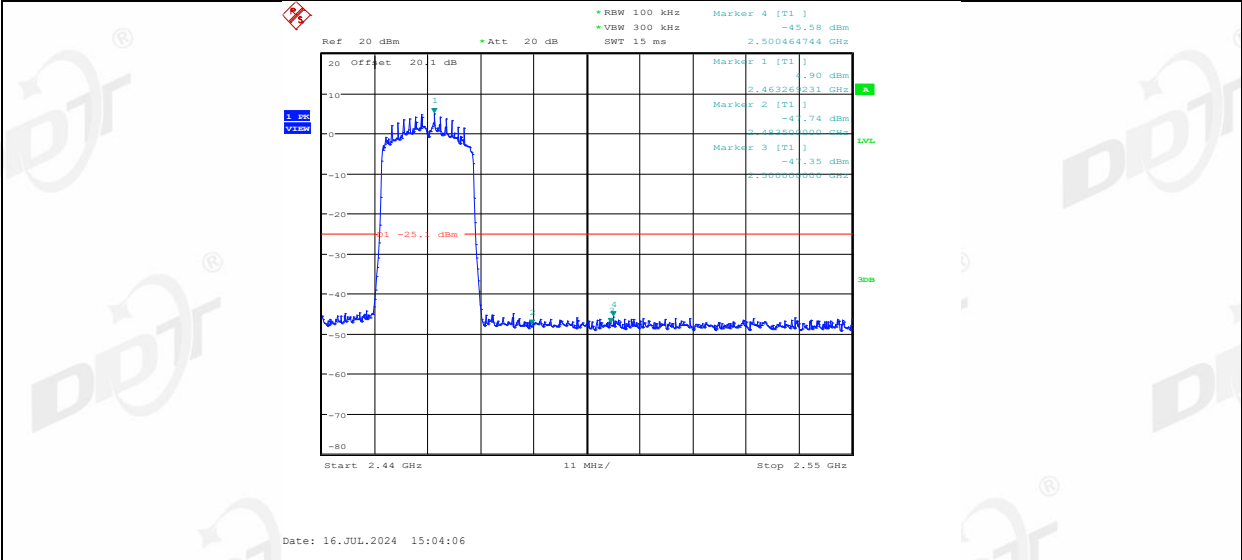


11N40MIMO_Ant2_High_2452

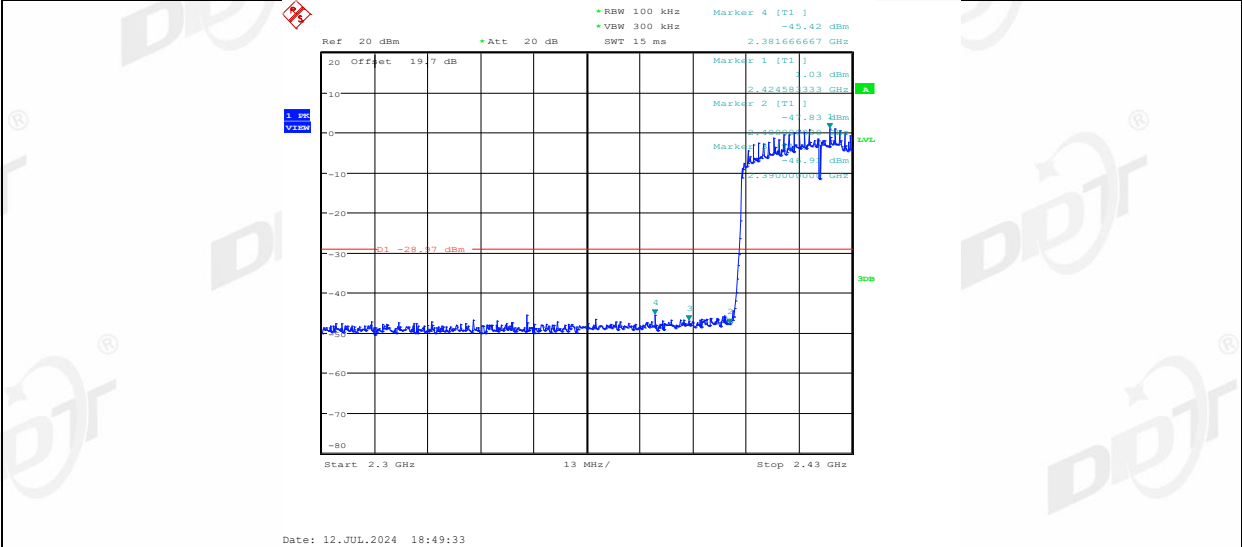




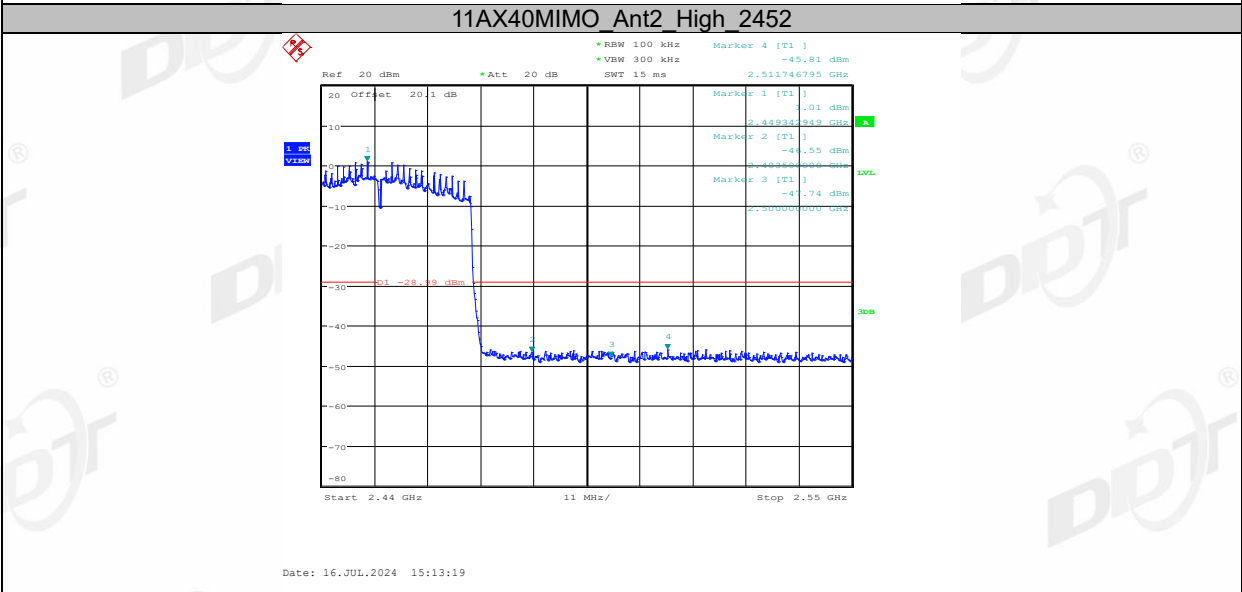
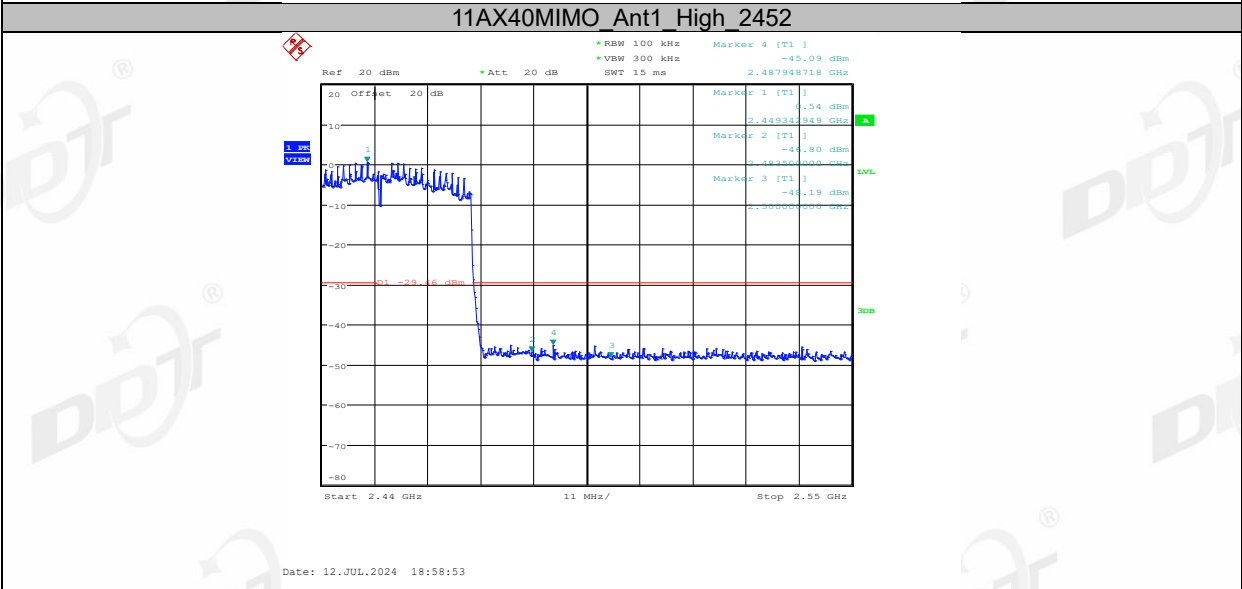
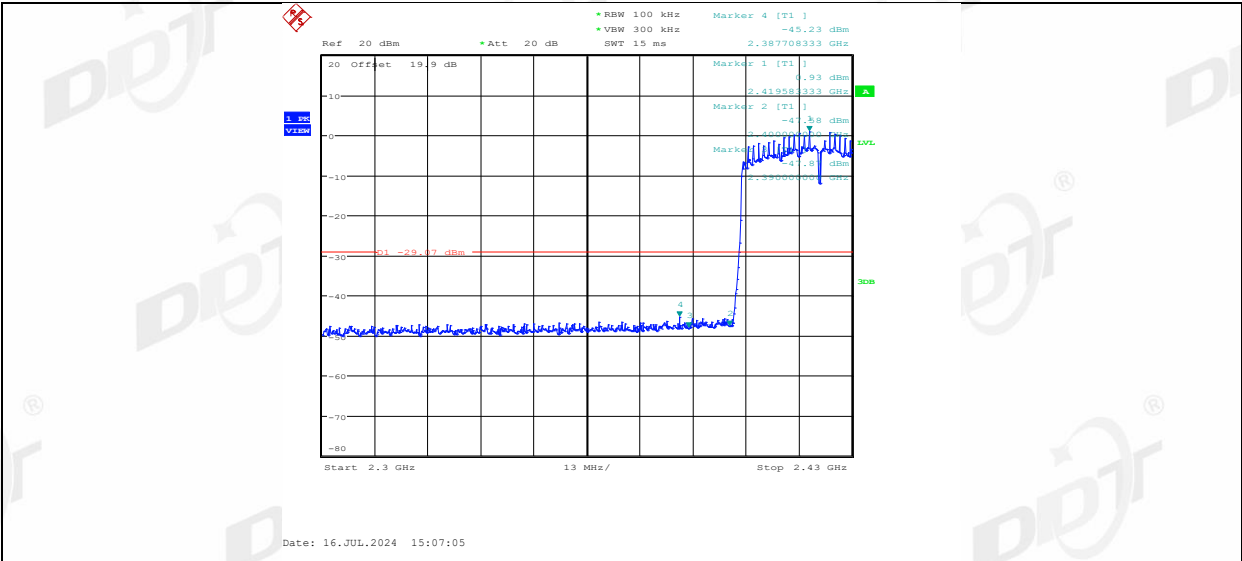
11AX20MIMO_Ant2_High_2462



11AX40MIMO_Ant1_Low_2422

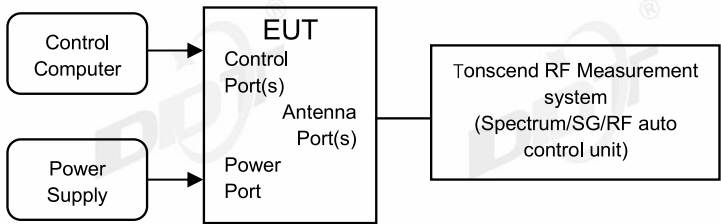


11AX40MIMO_Ant2_Low_2422



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	$\geq \text{Span/RBW}$
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

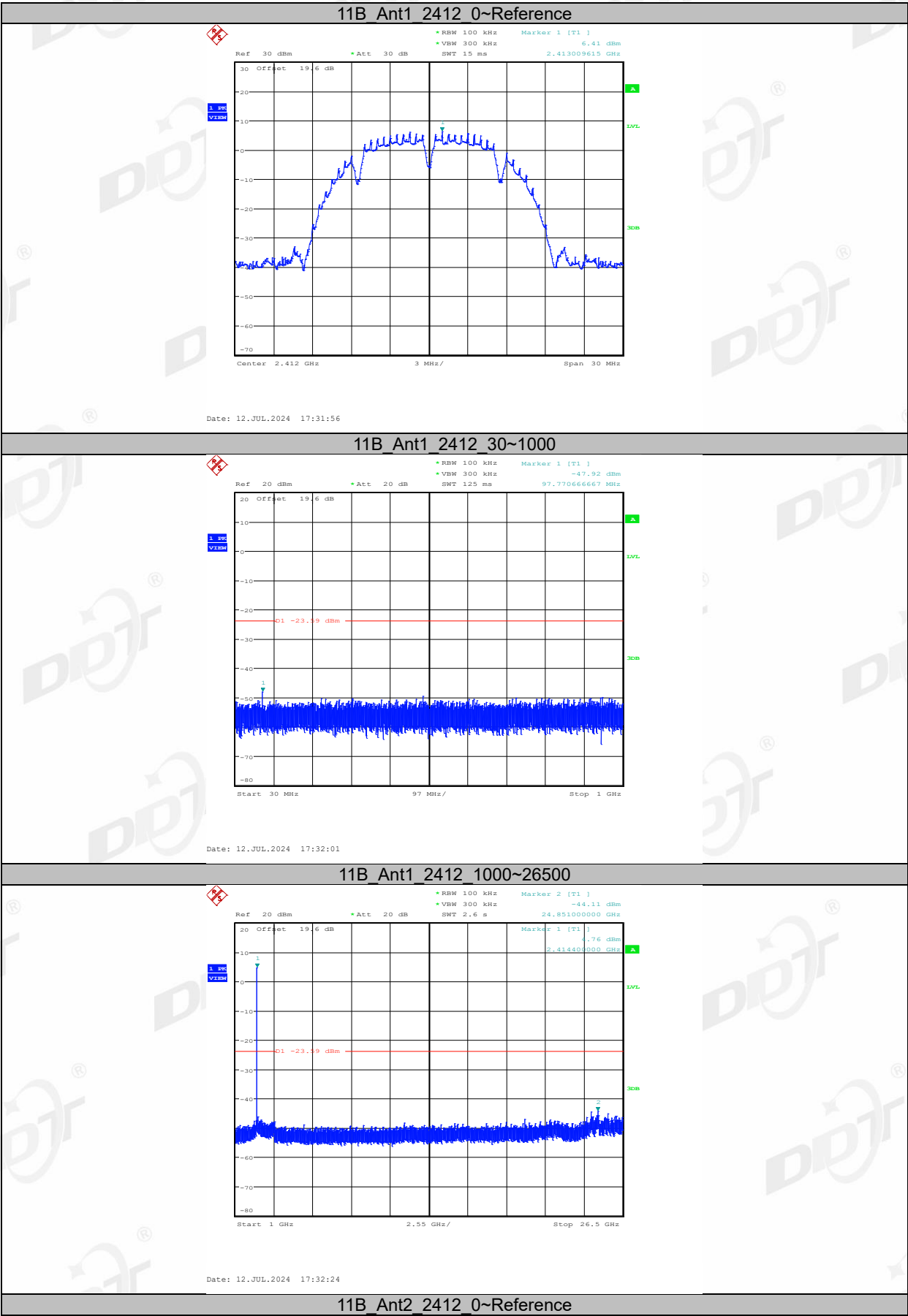
- (5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

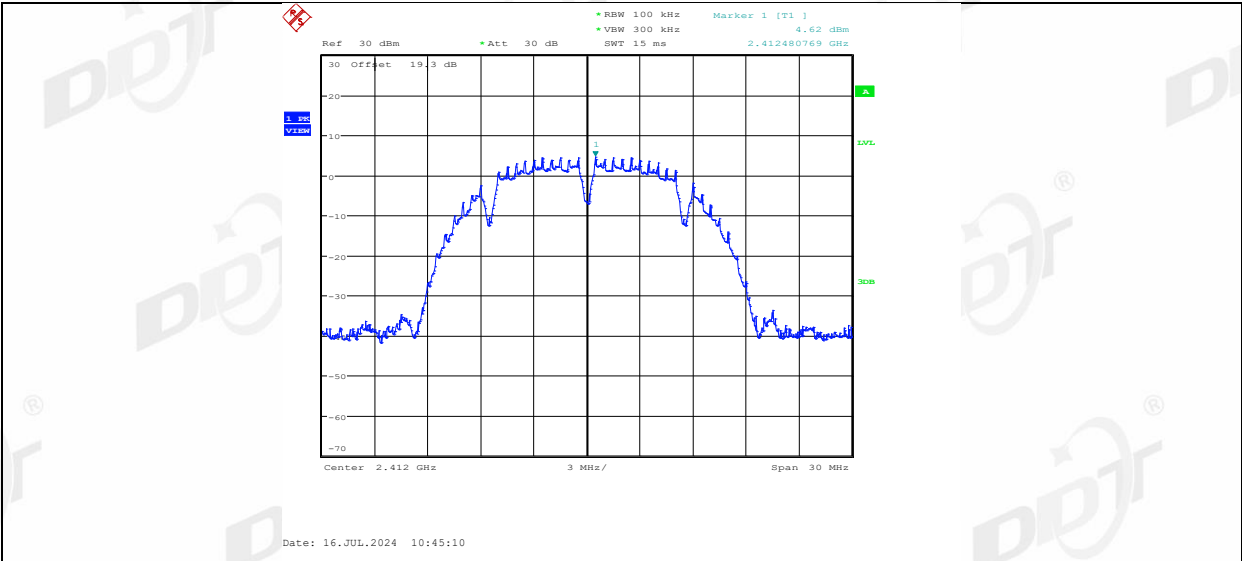
9.4. Test result

Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#		
Ambient Condition:	26.58℃,40.0%RH	Test Date:	2024.07.12-2024.07.23		
Test Power Supply:	AC120V/60Hz	Sample Number:	S24052212-001		

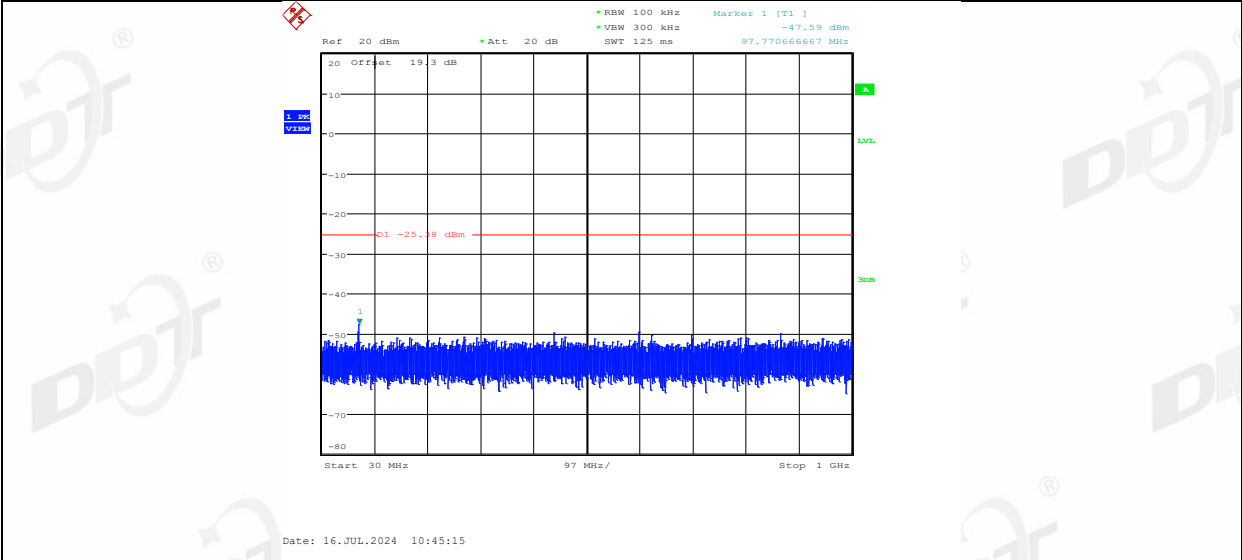
EUT Set Mode	CH or Frequency	Result(dBm)	EUT Set Mode	CH or Frequency	Result (dBm)
11b	CH1	Pass	11g	CH1	Pass
	CH11	Pass		CH11	Pass
11n HT 20	CH1	Pass	11n HT 40	CH3	Pass
	CH11	Pass		CH9	Pass
11ax HE 20	CH1	Pass	11ax HE 40	CH3	Pass
	CH11	Pass		CH9	Pass

9.5. Test graphs

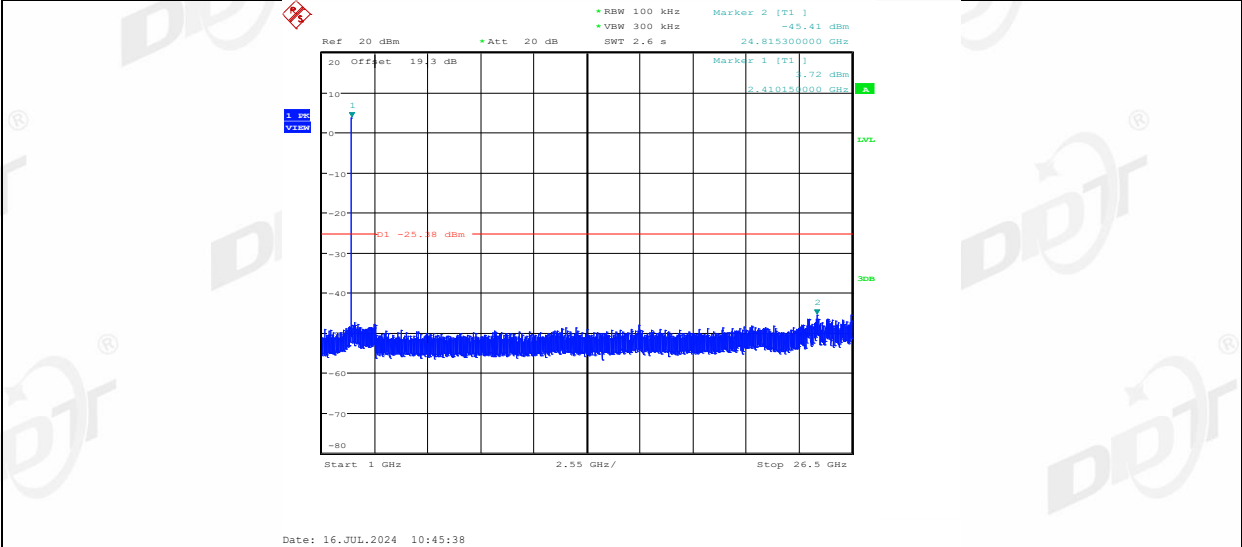




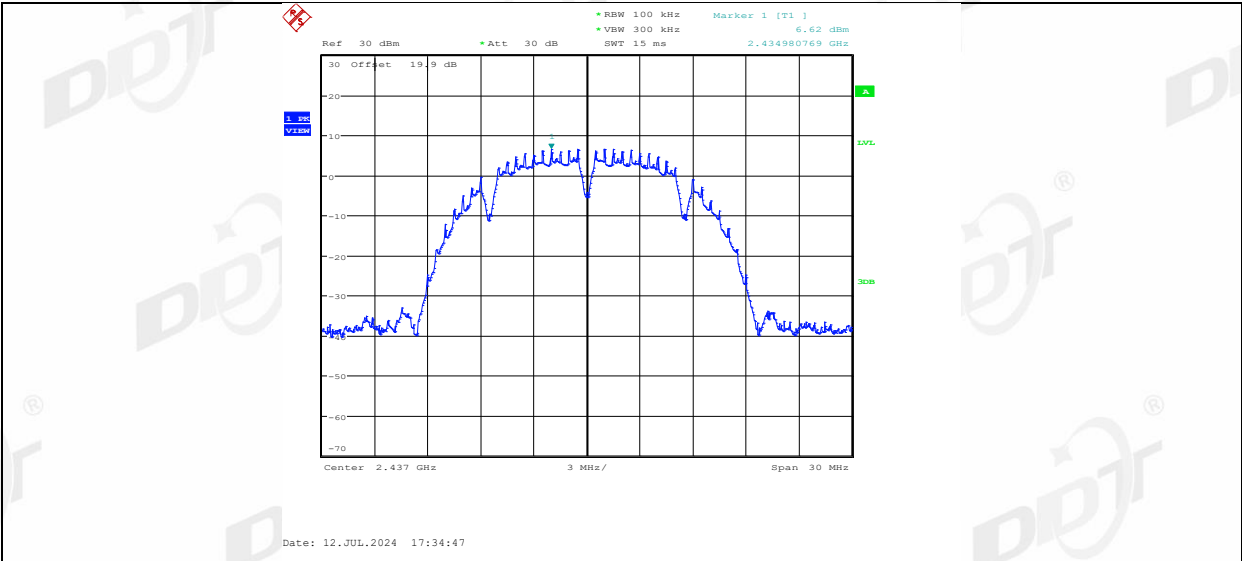
11B_Ant2_2412_30~1000



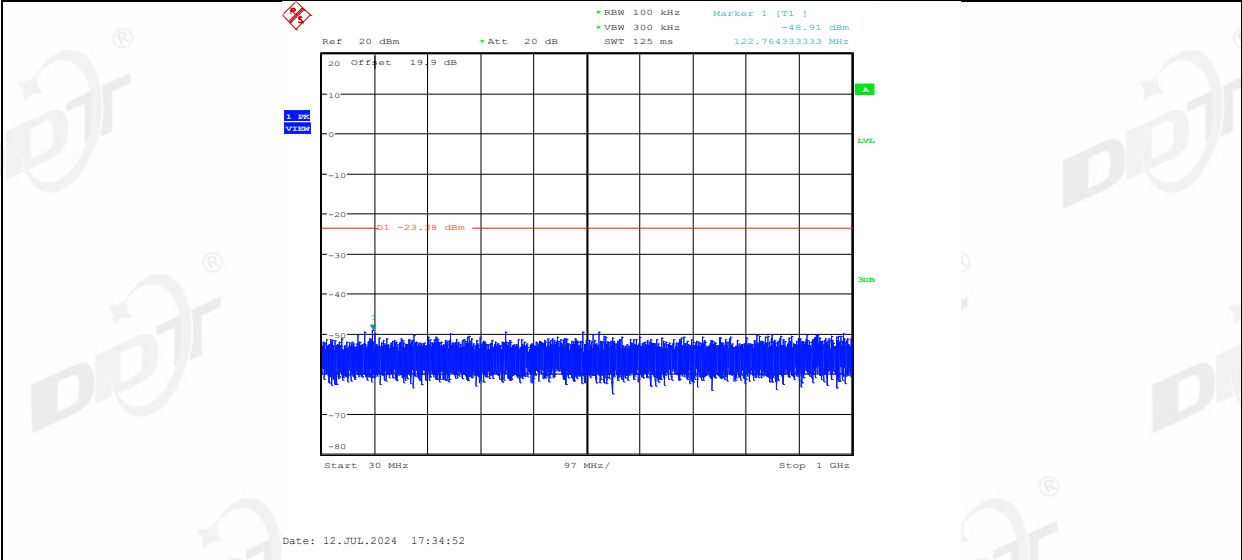
11B_Ant2_2412_1000~26500



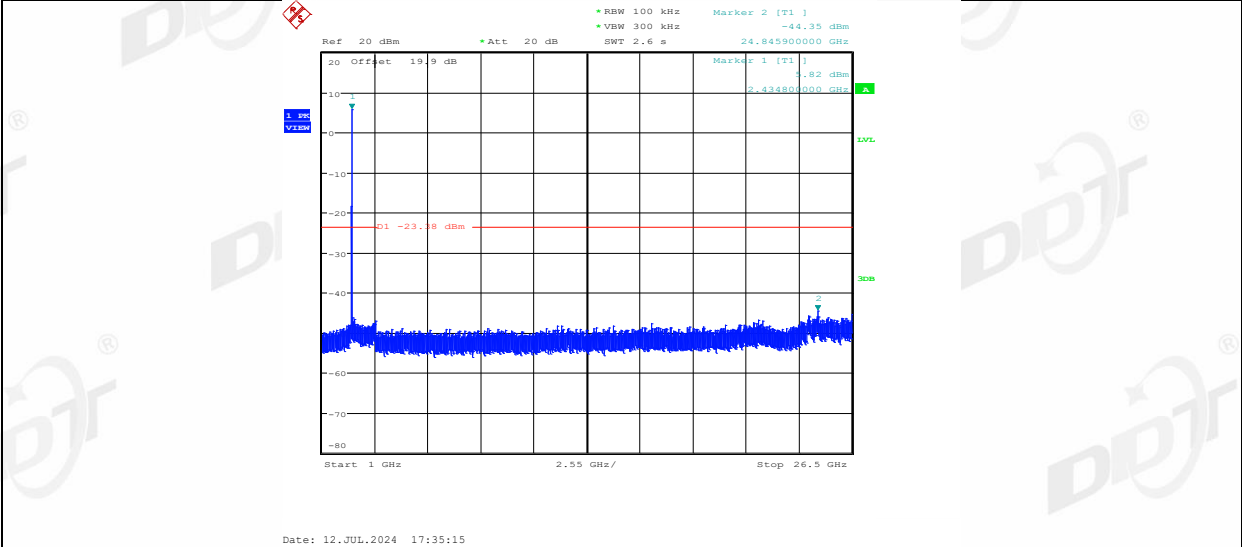
11B_Ant1_2437_0~Reference



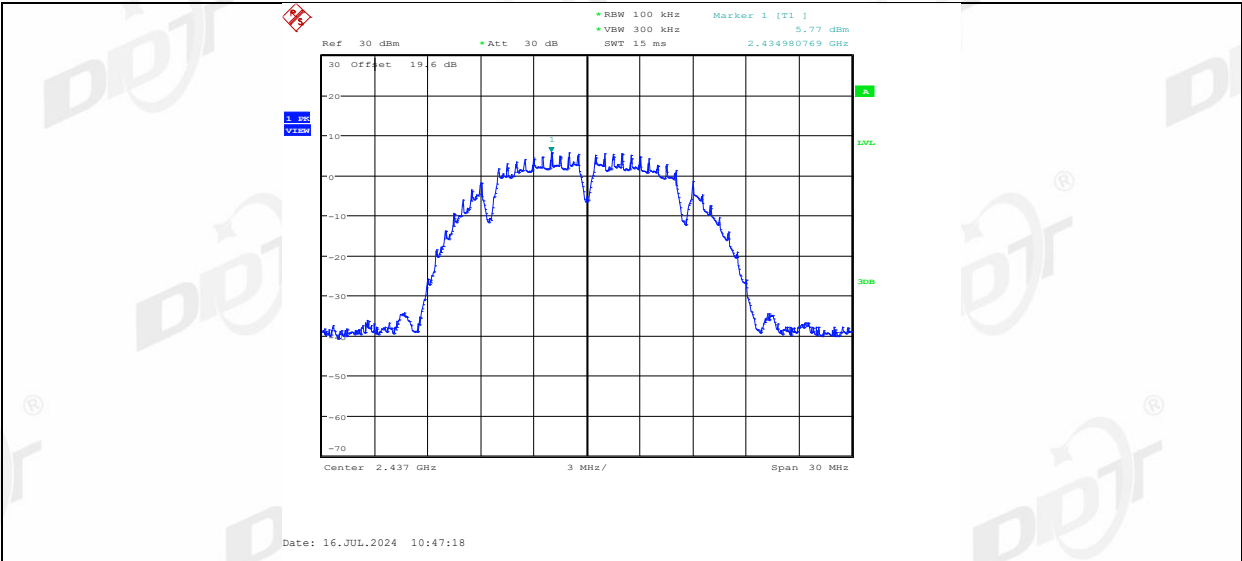
11B_Ant1 2437 30~1000



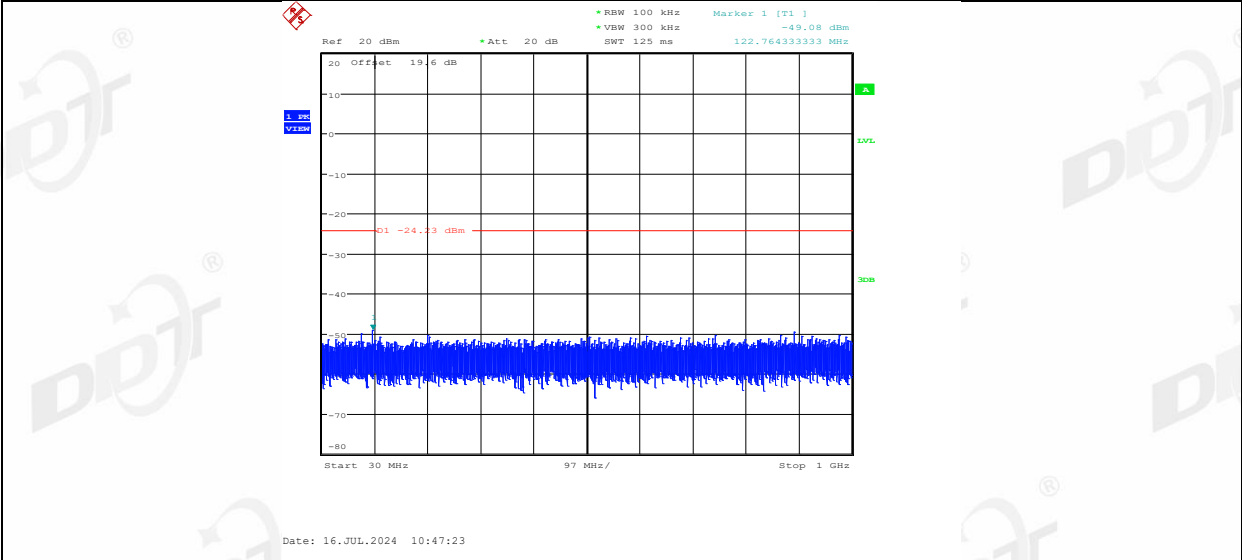
11B_Ant1 2437 1000~26500



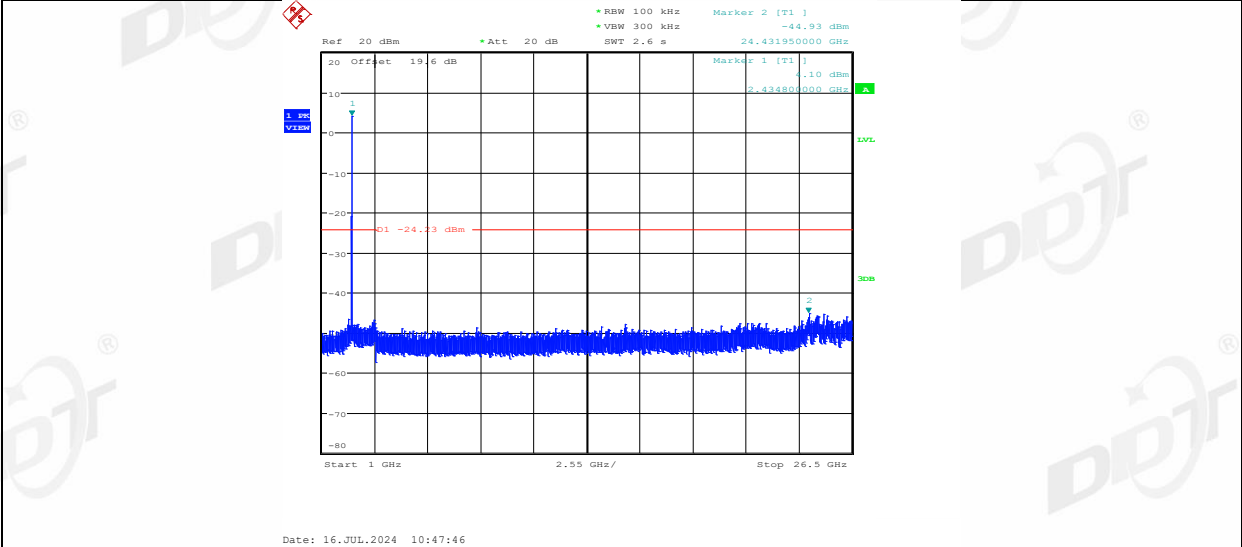
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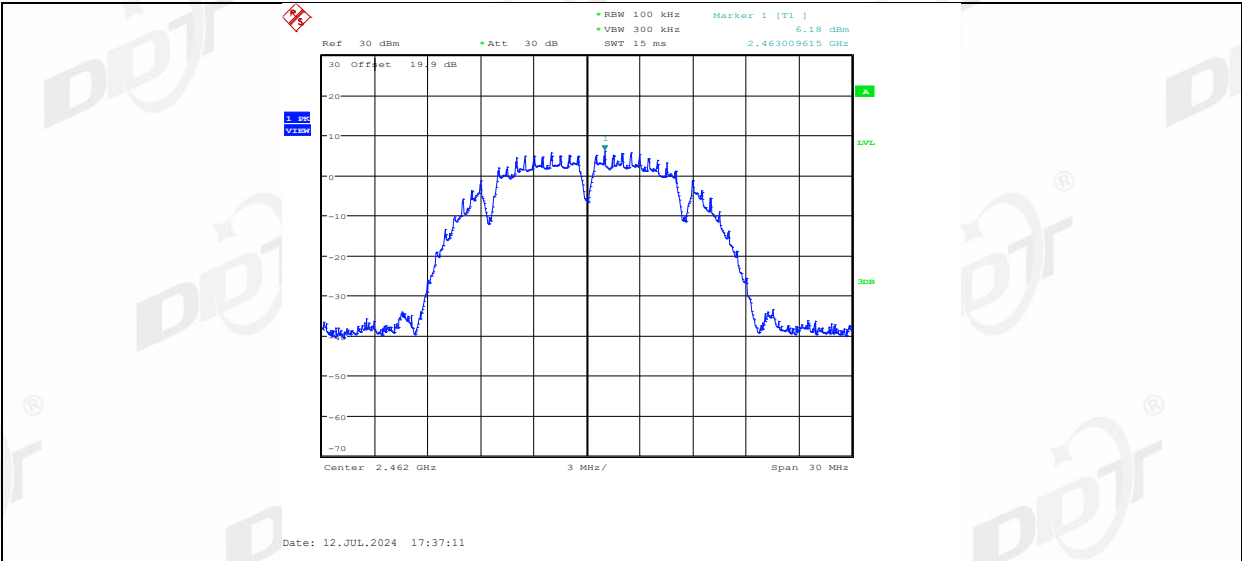
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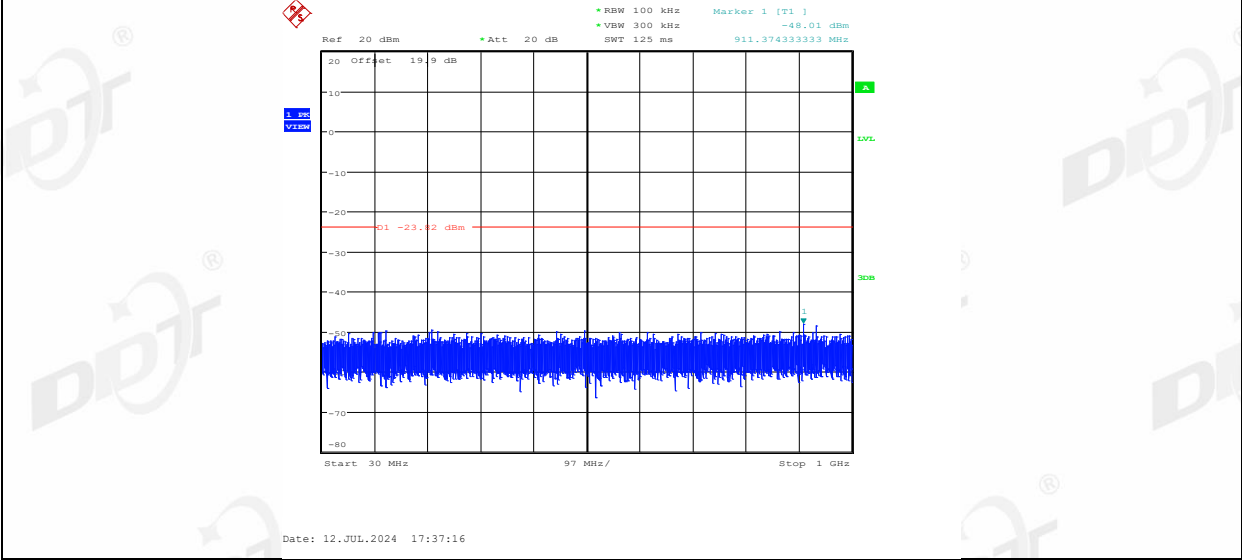
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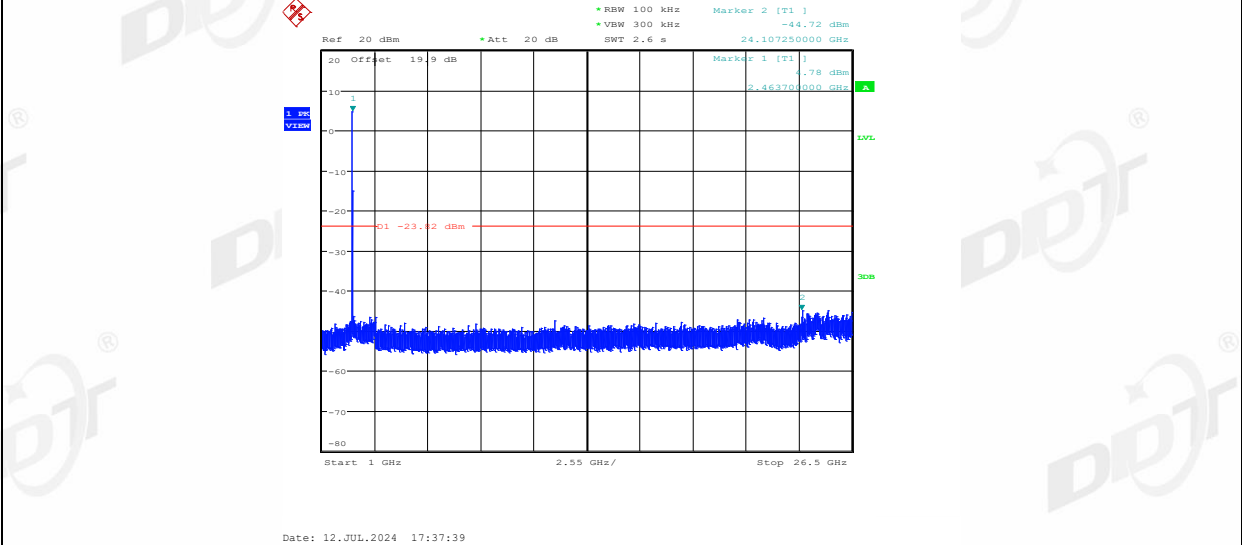
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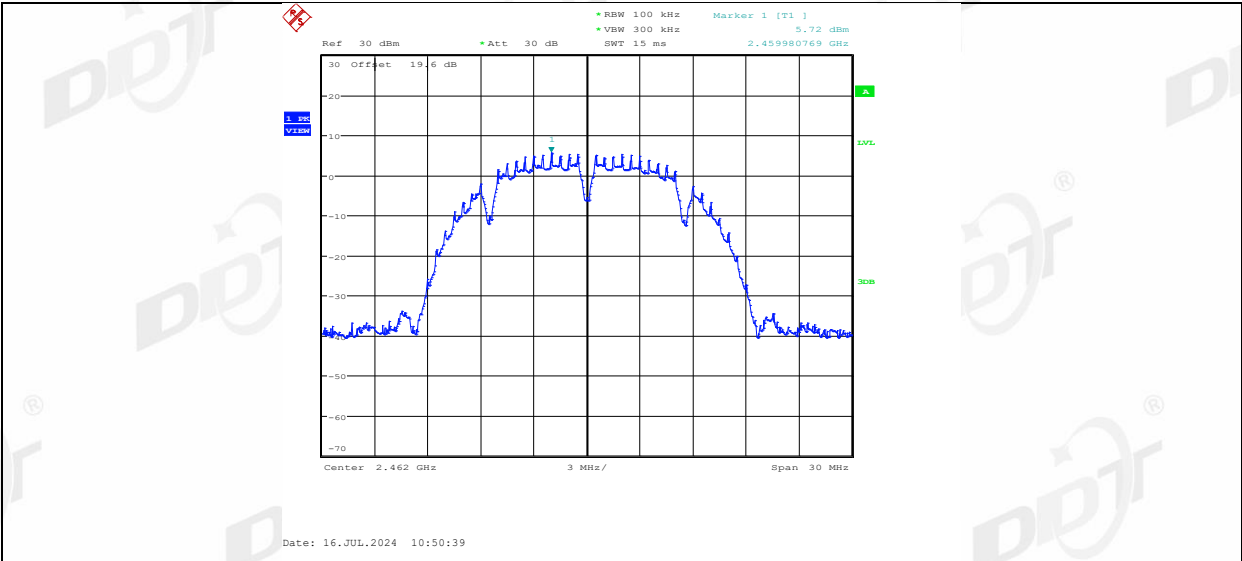
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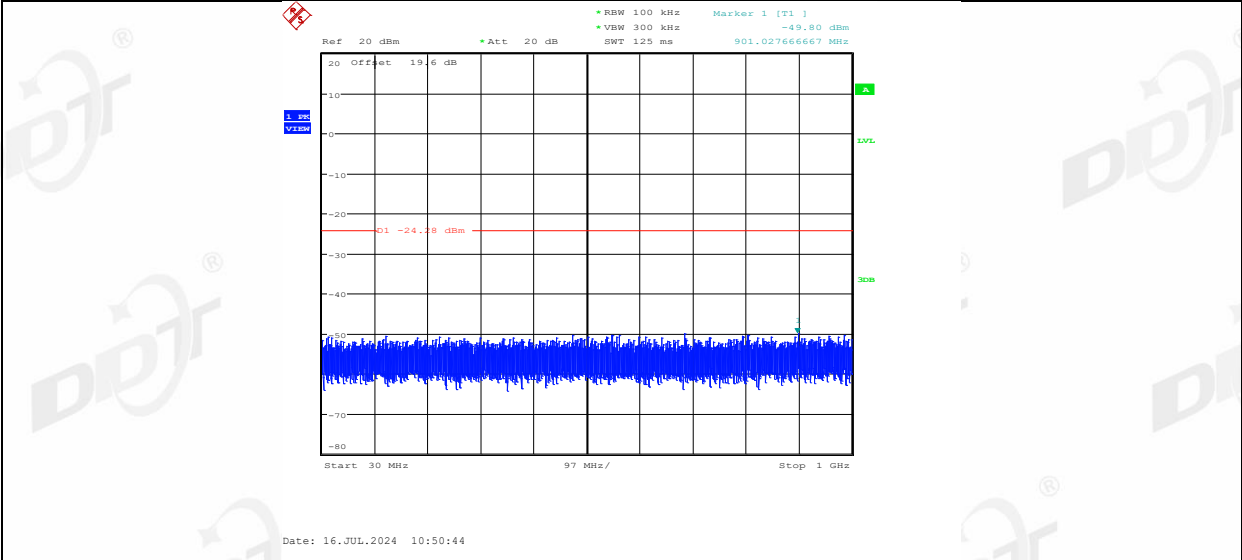
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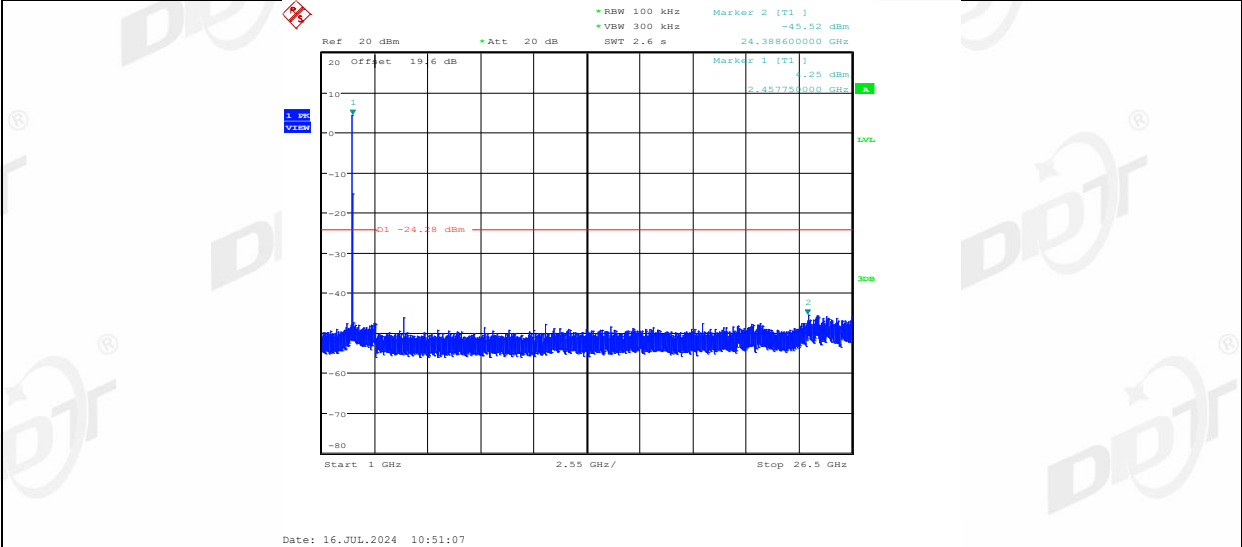
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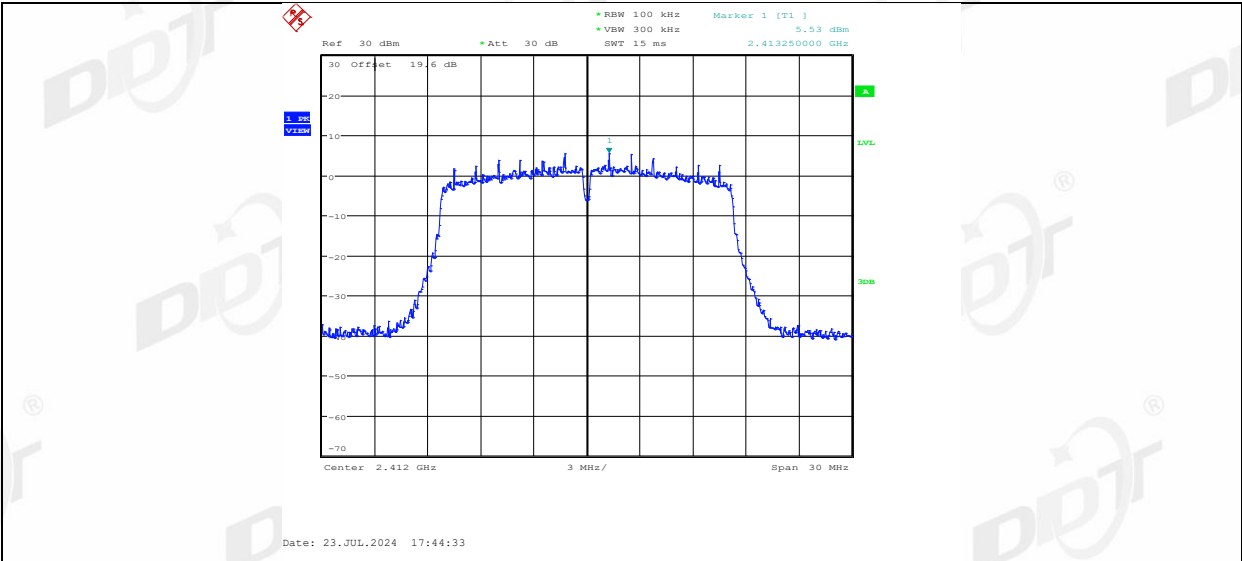
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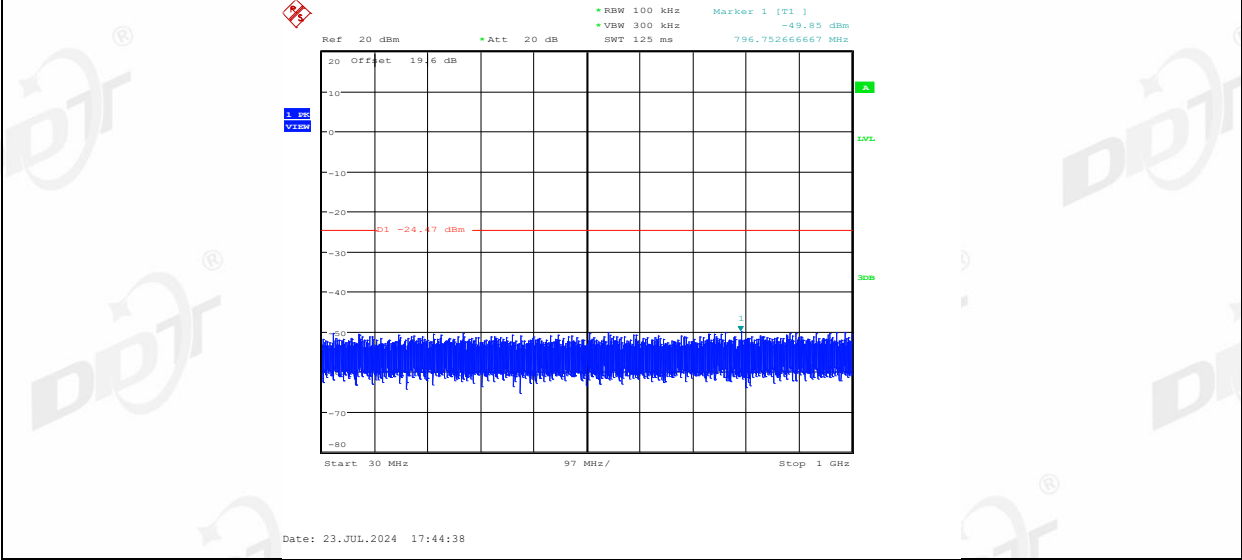
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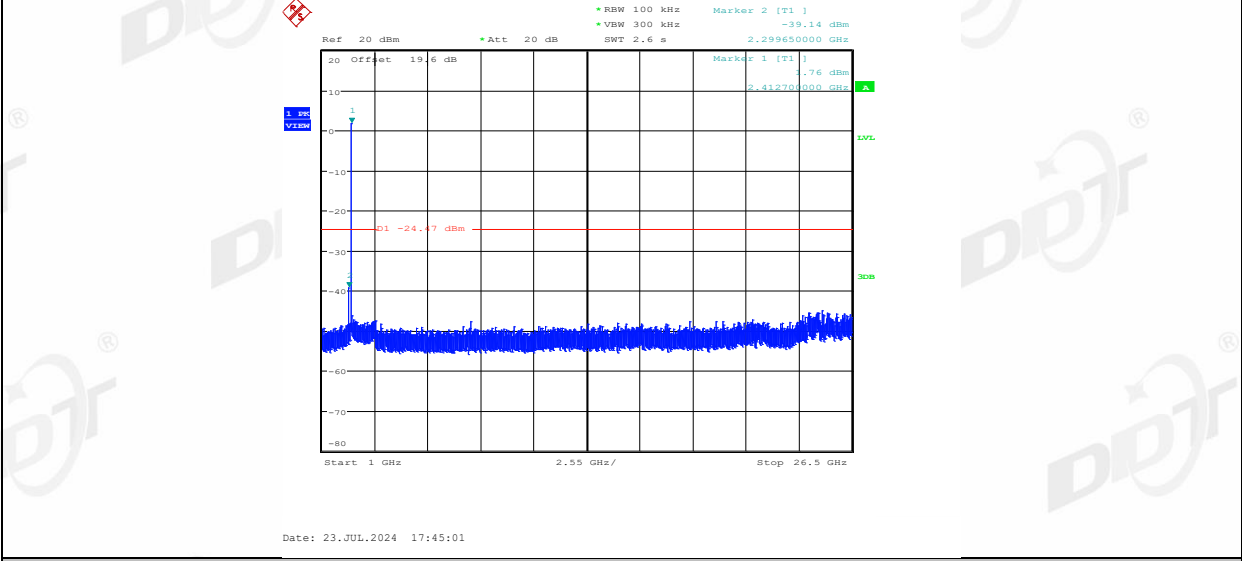
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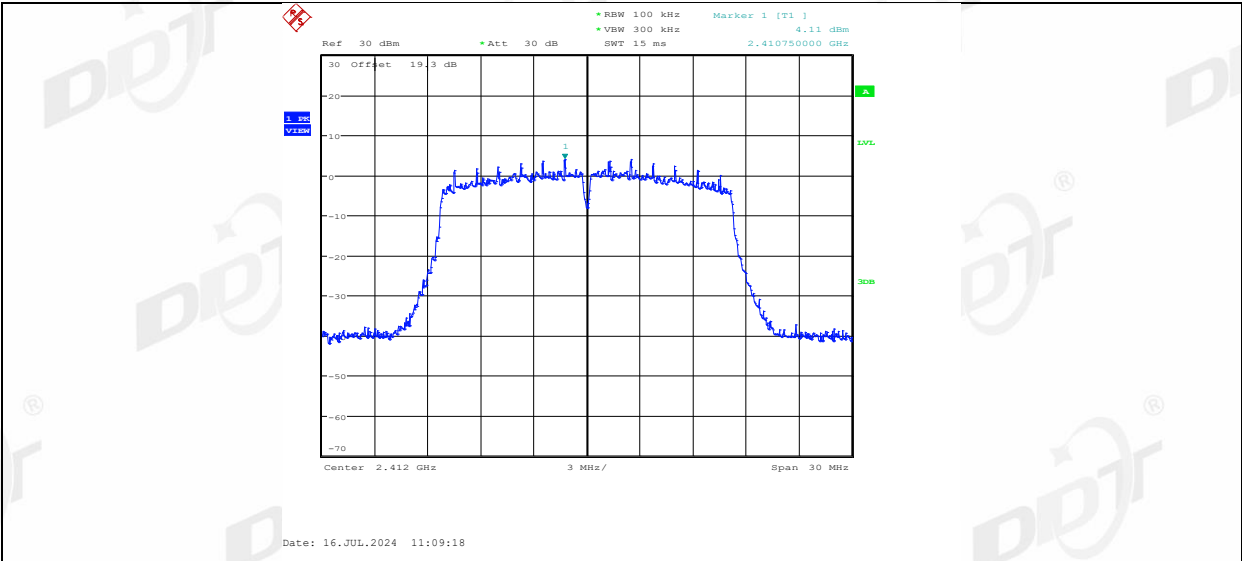
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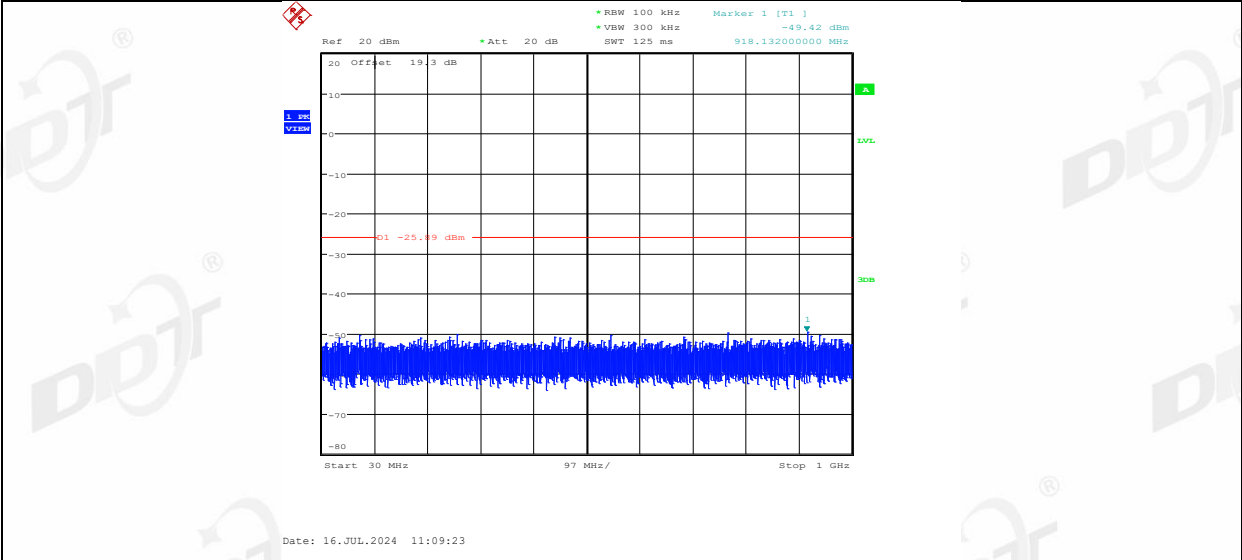
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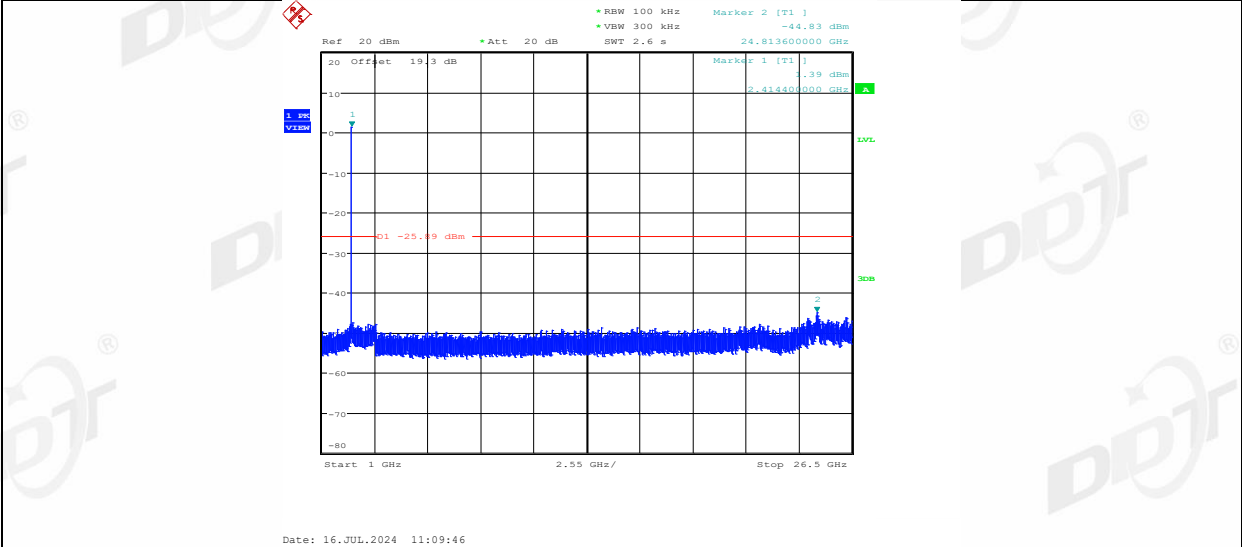
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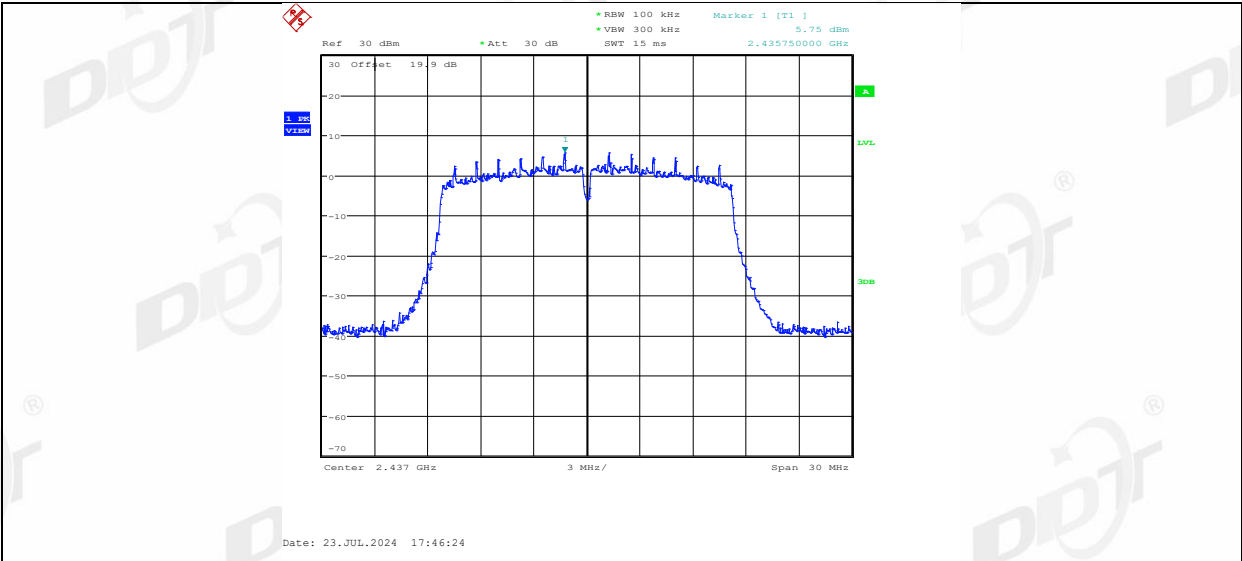
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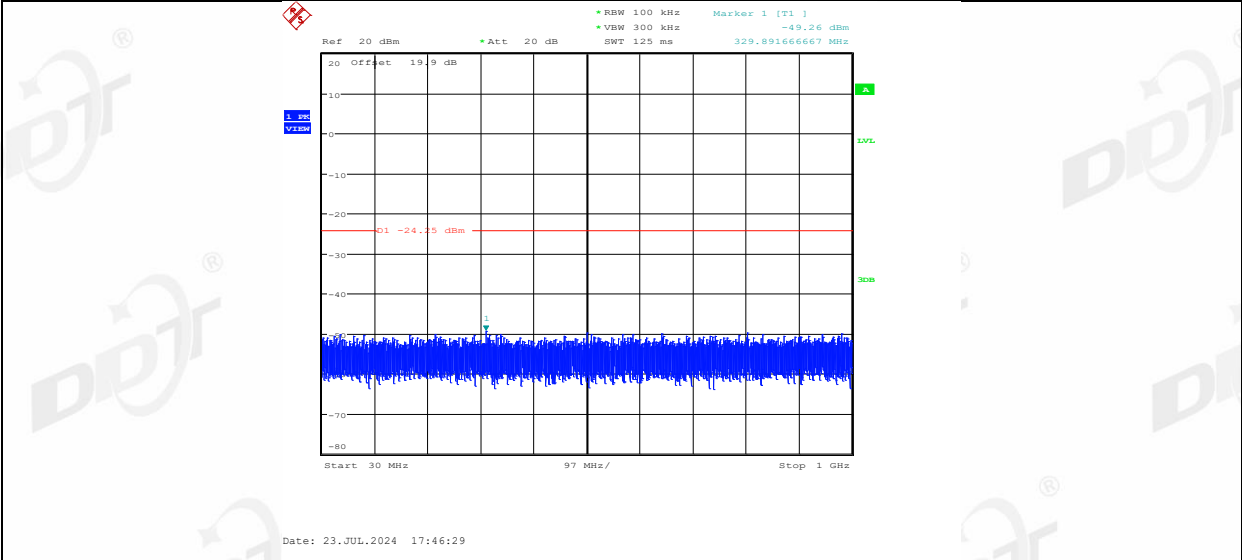
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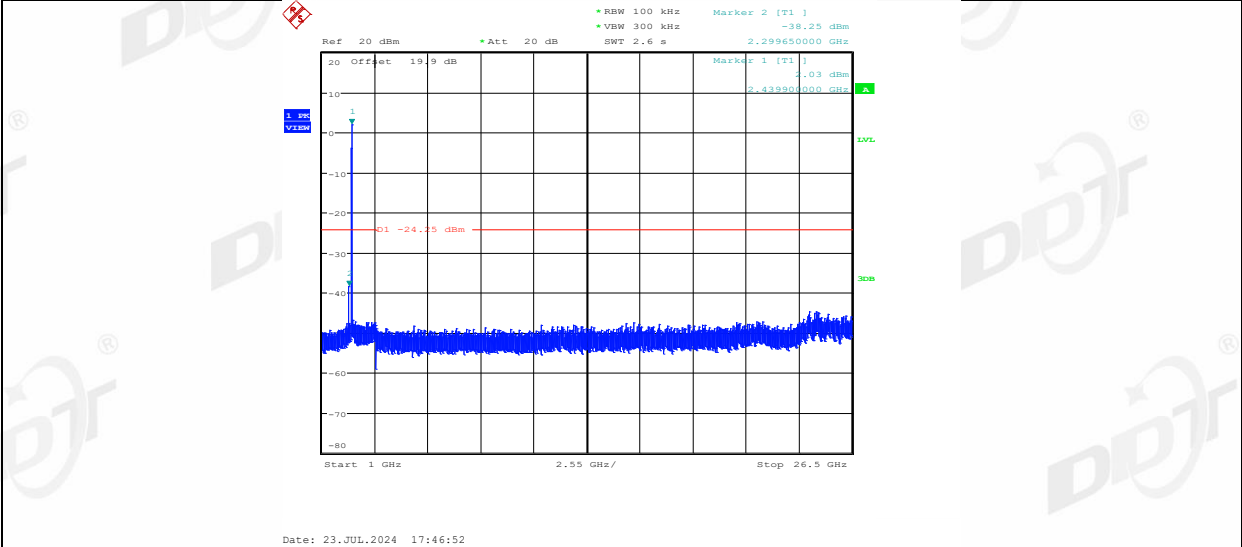
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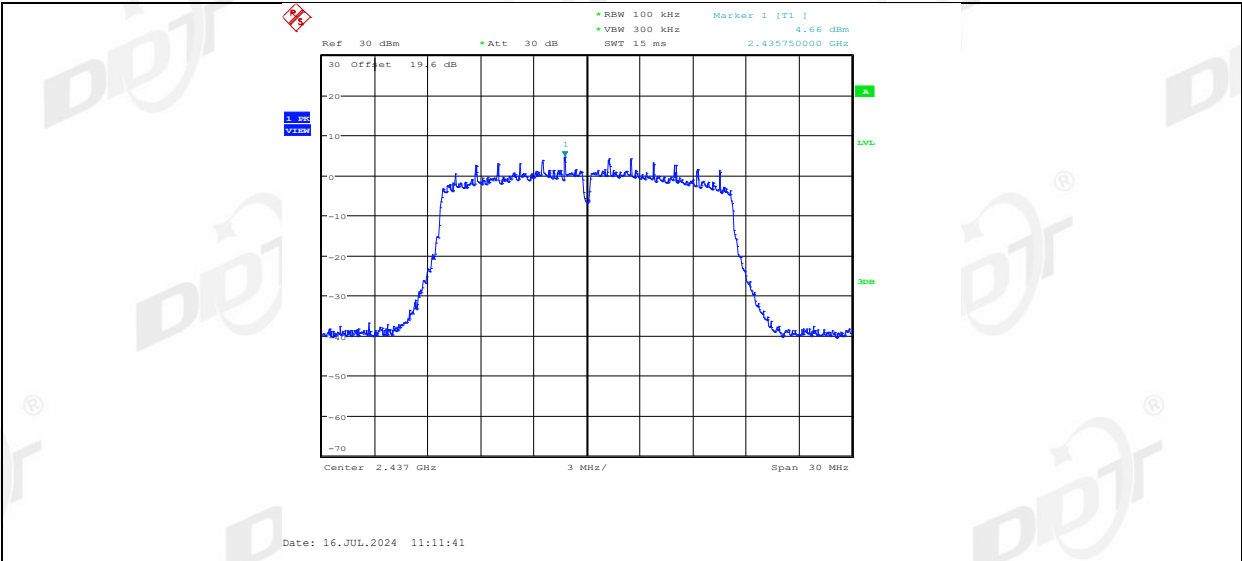
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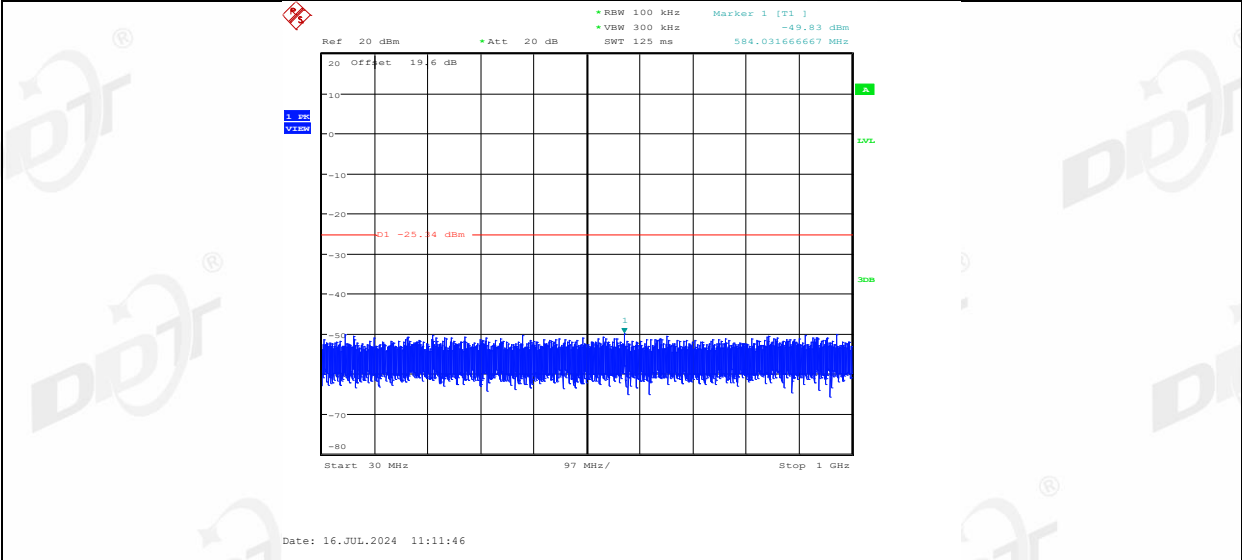
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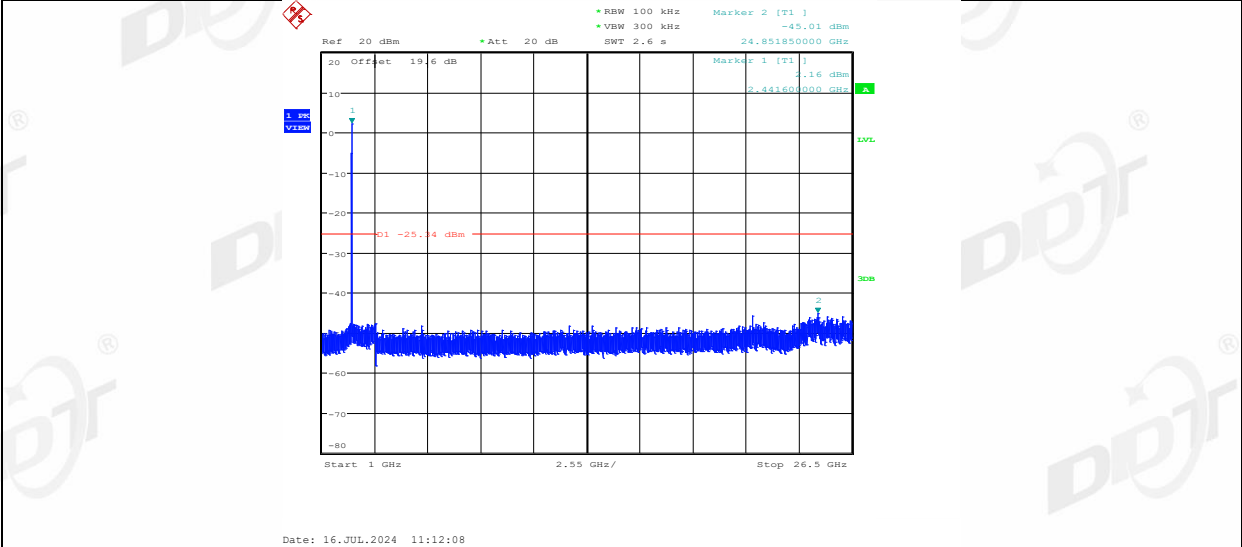
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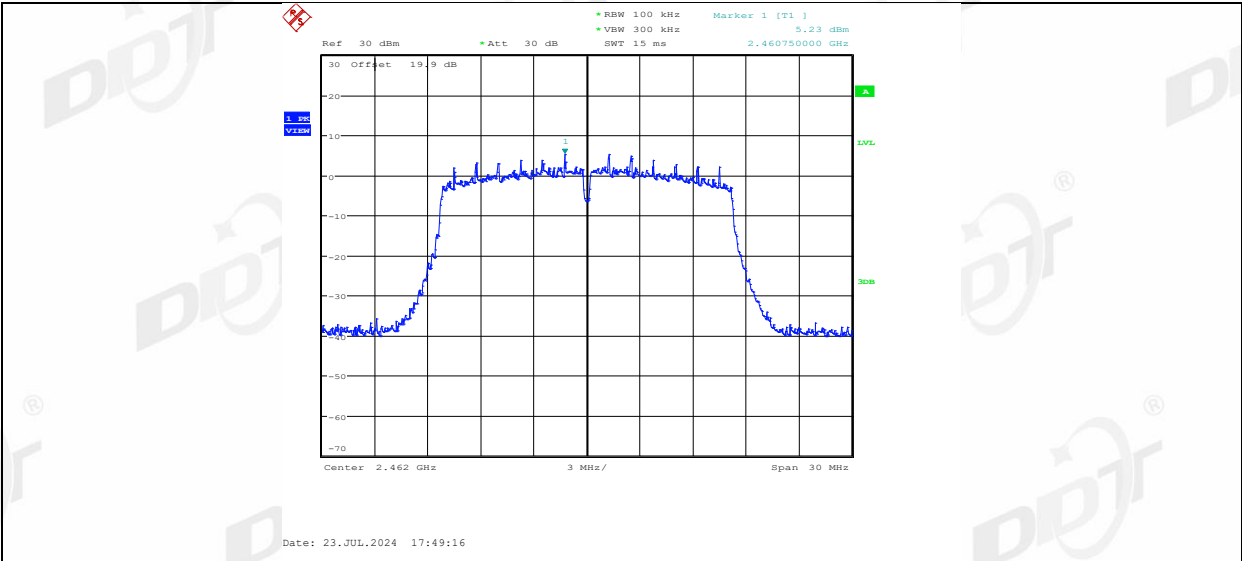
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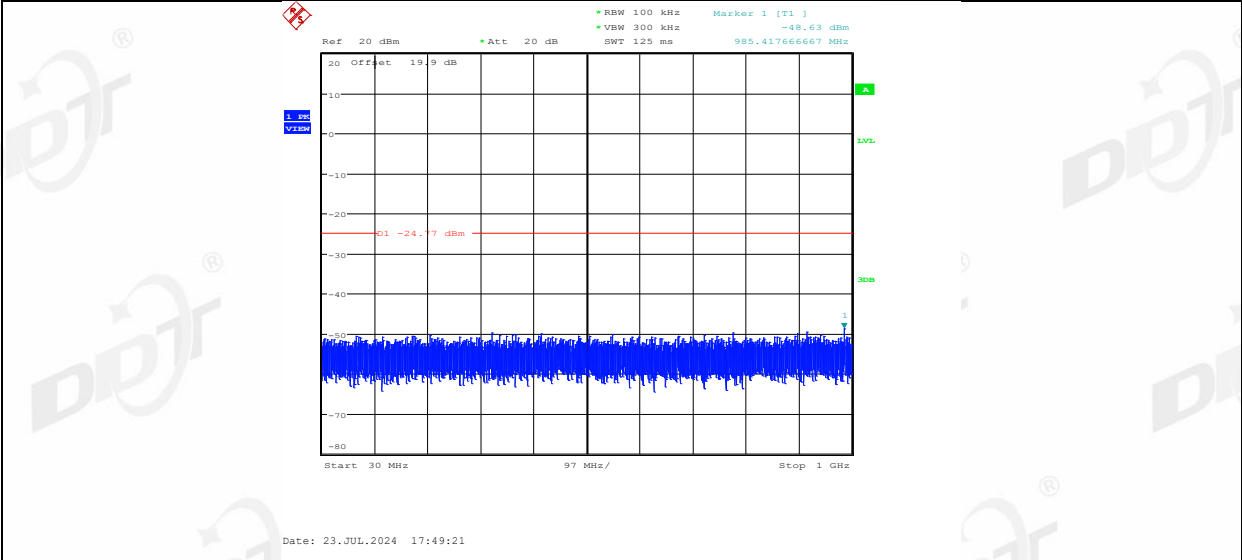
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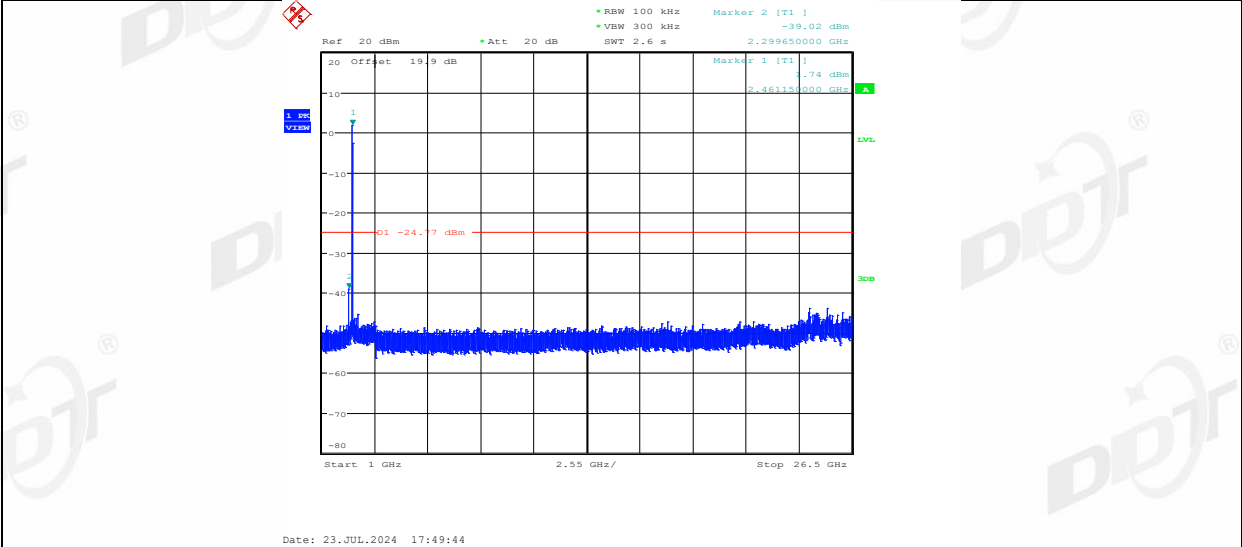
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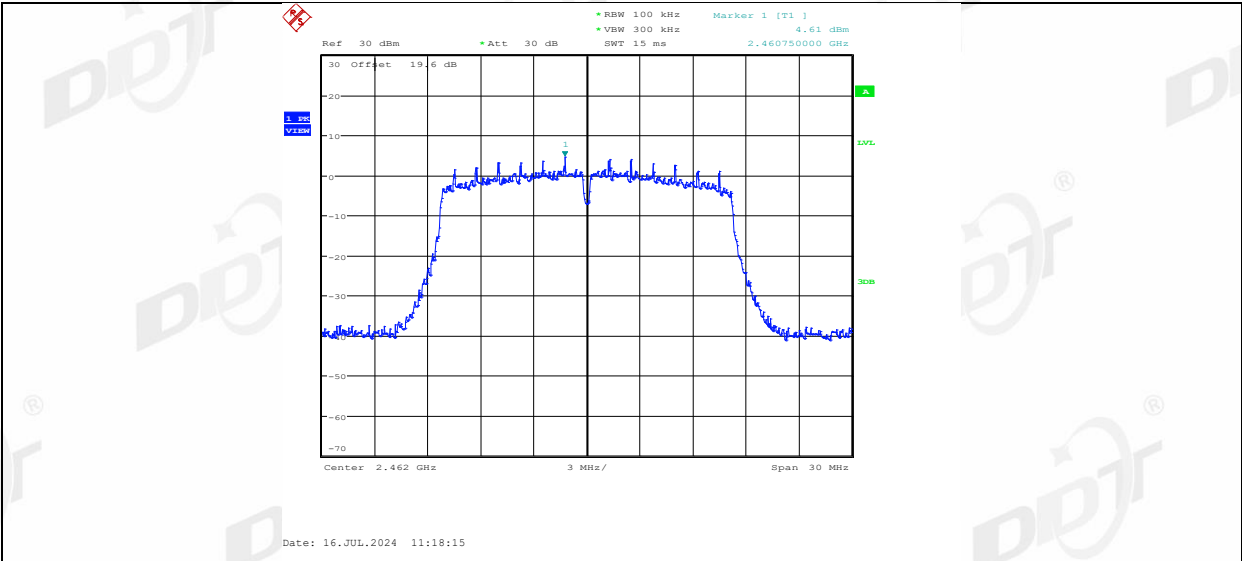
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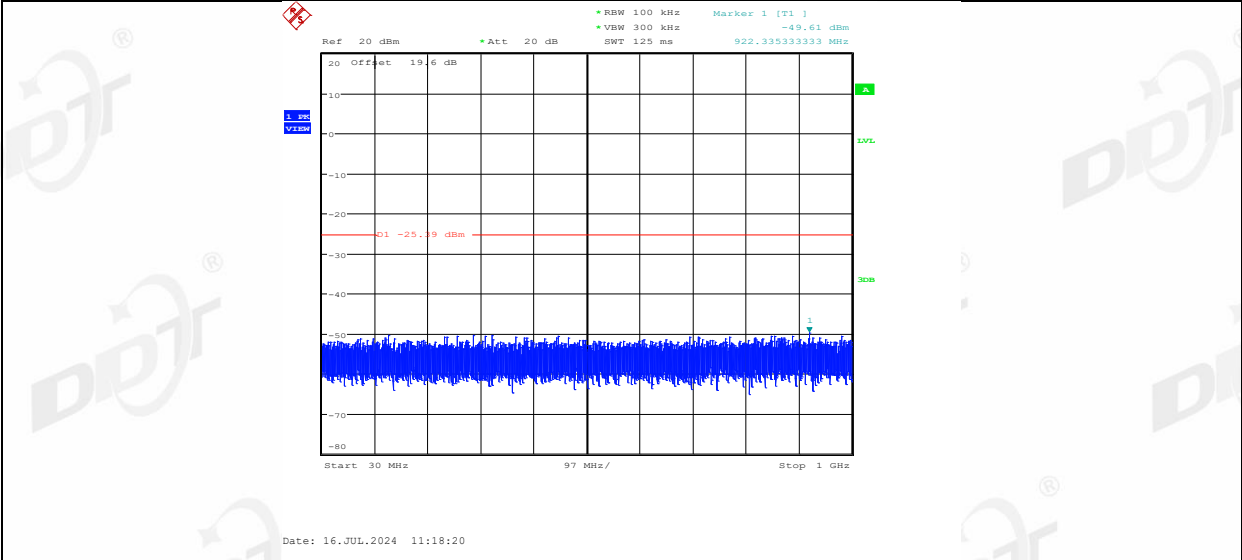
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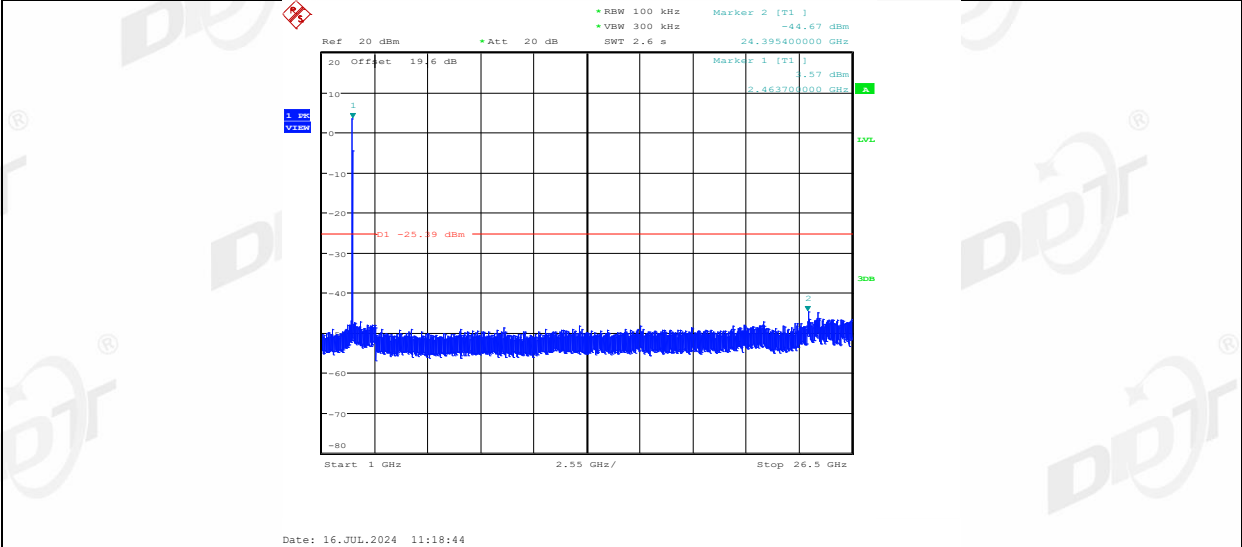
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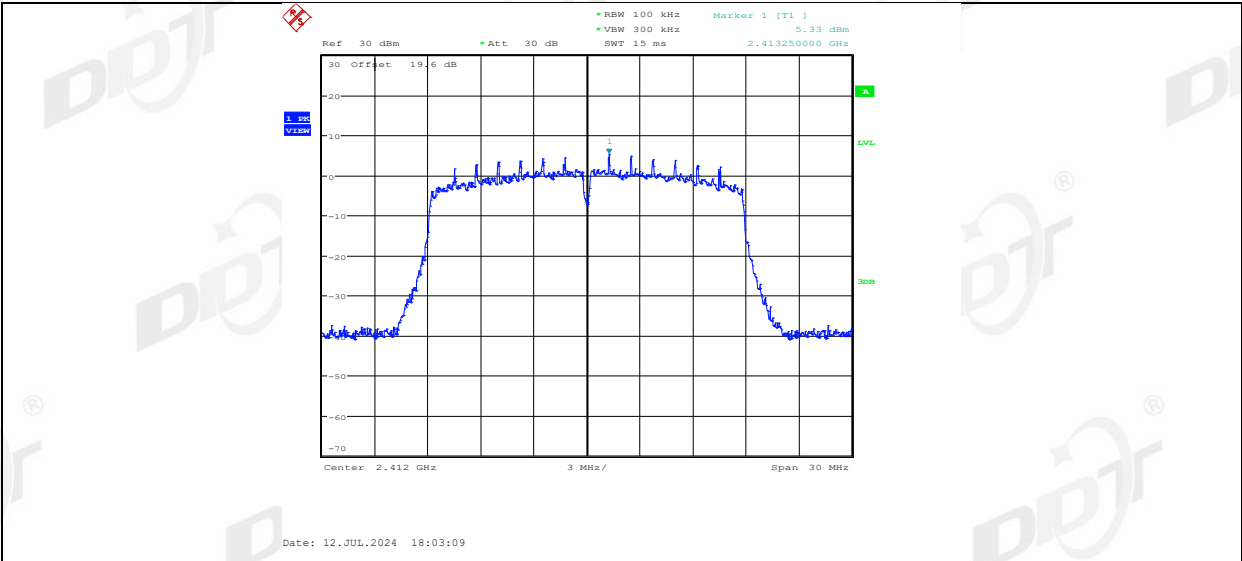
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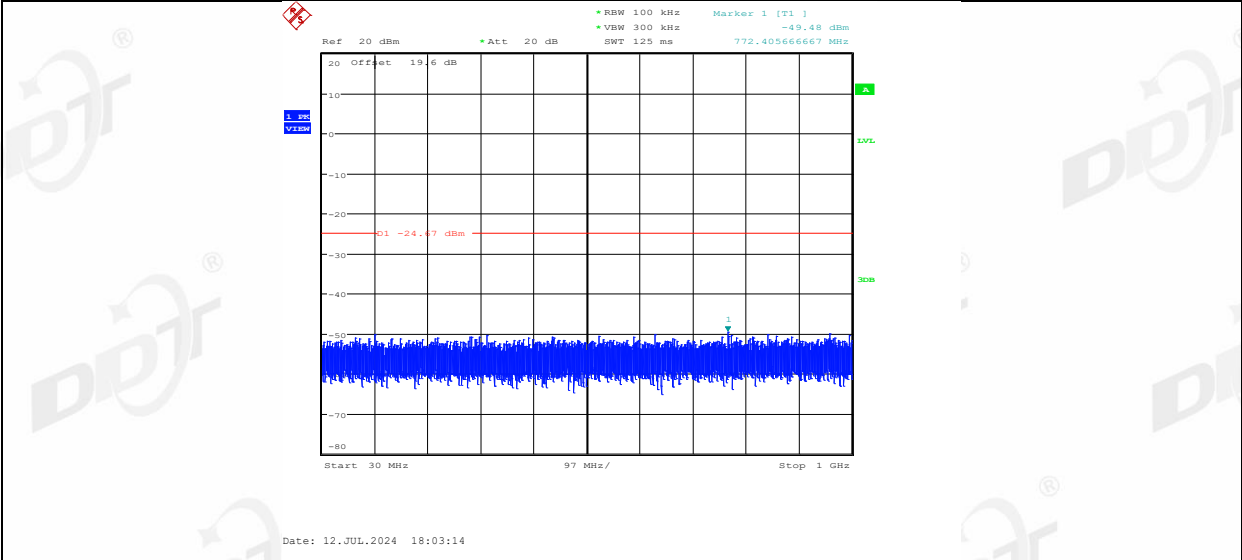
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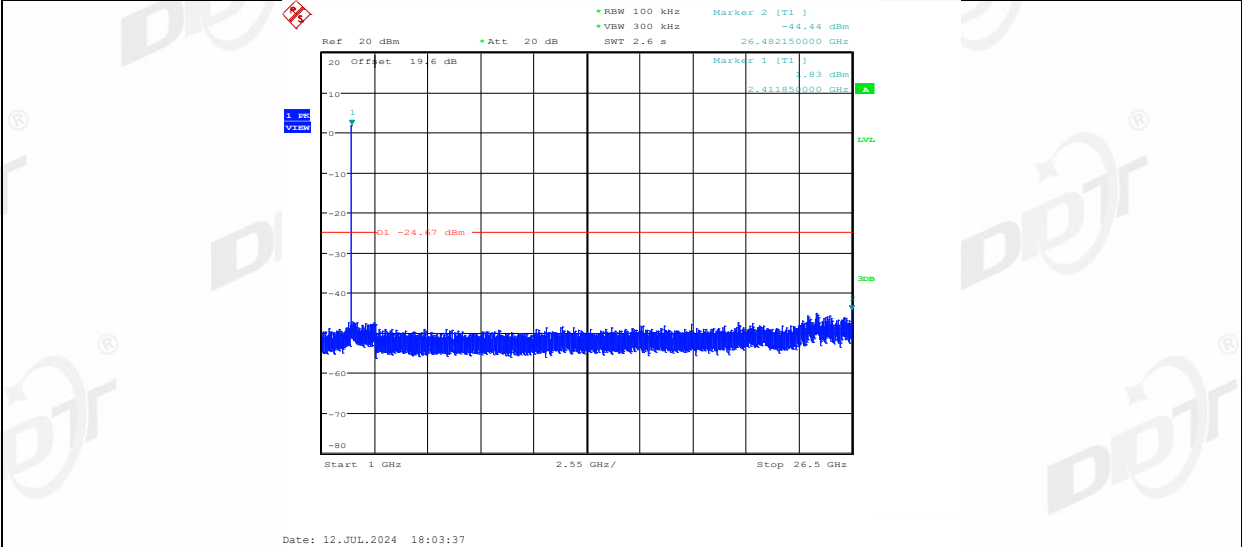
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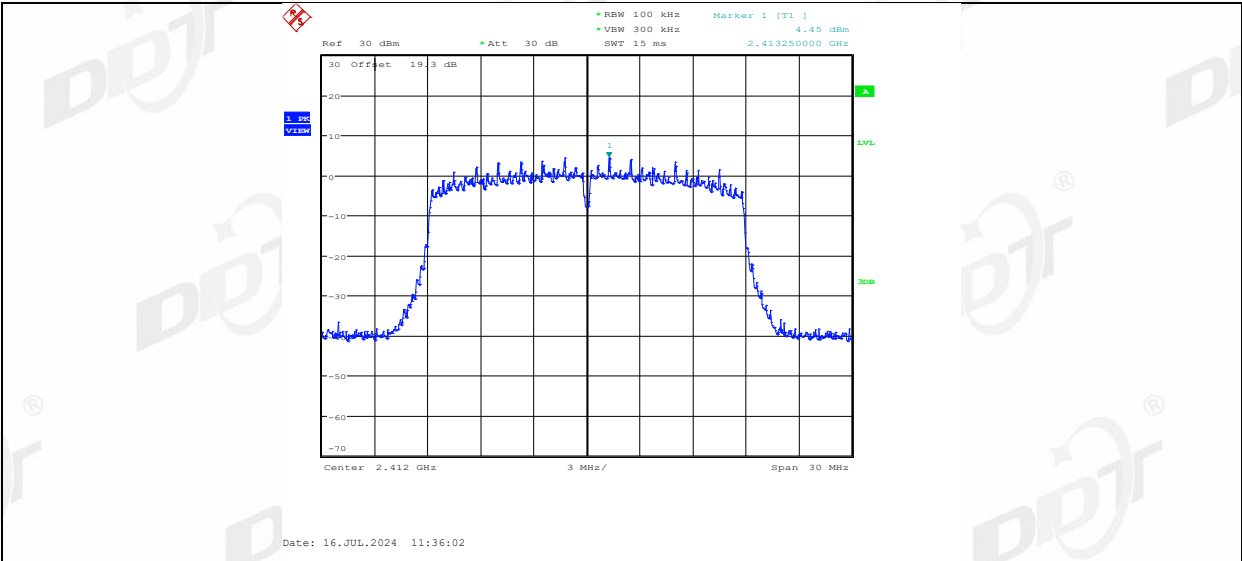
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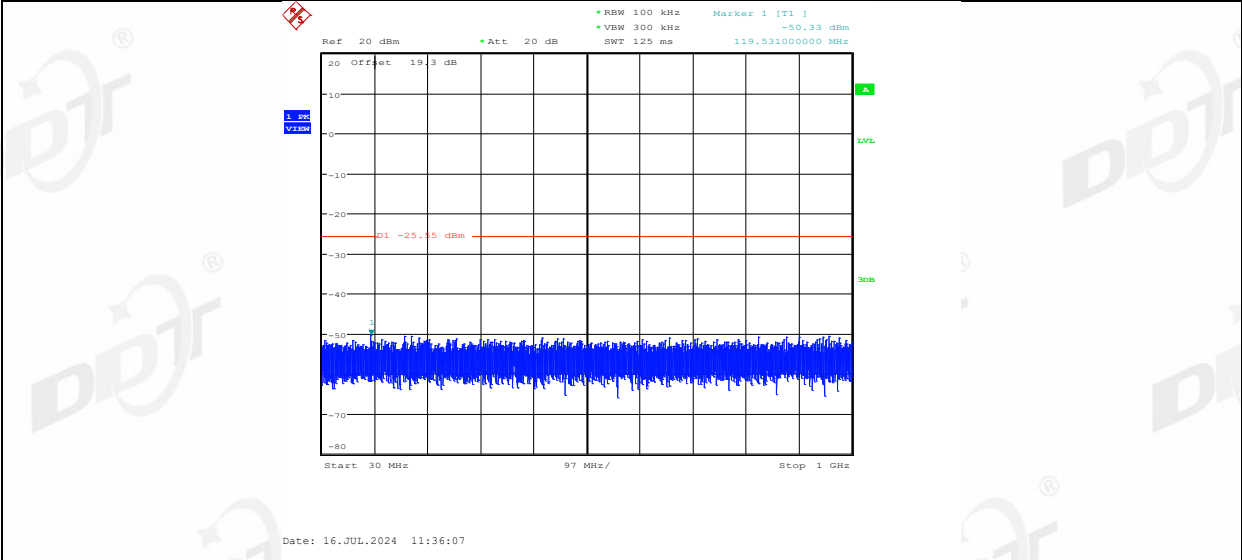
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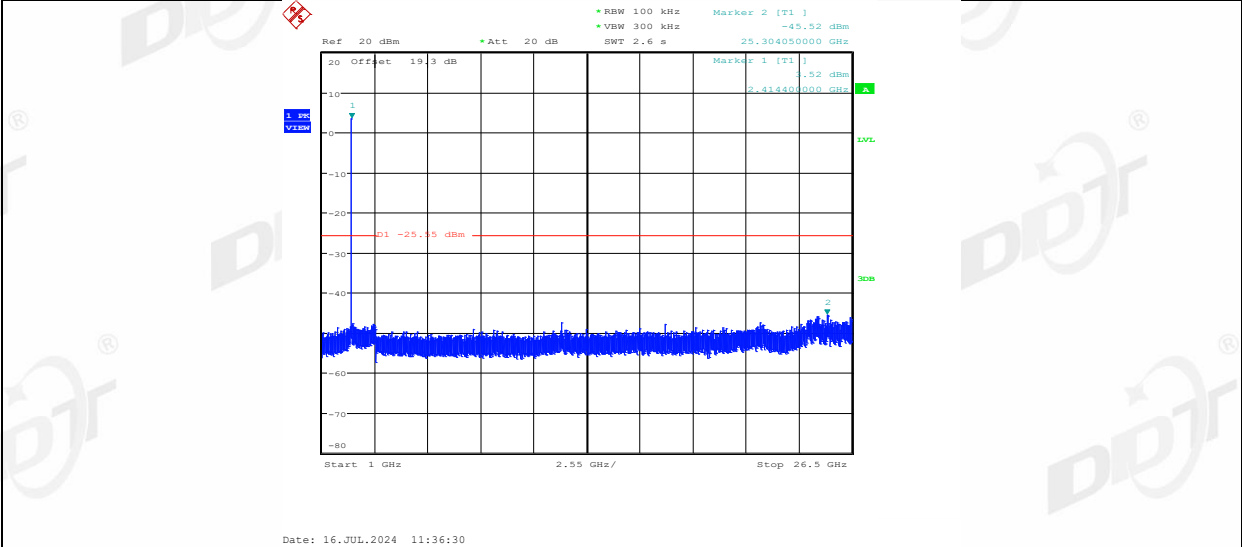
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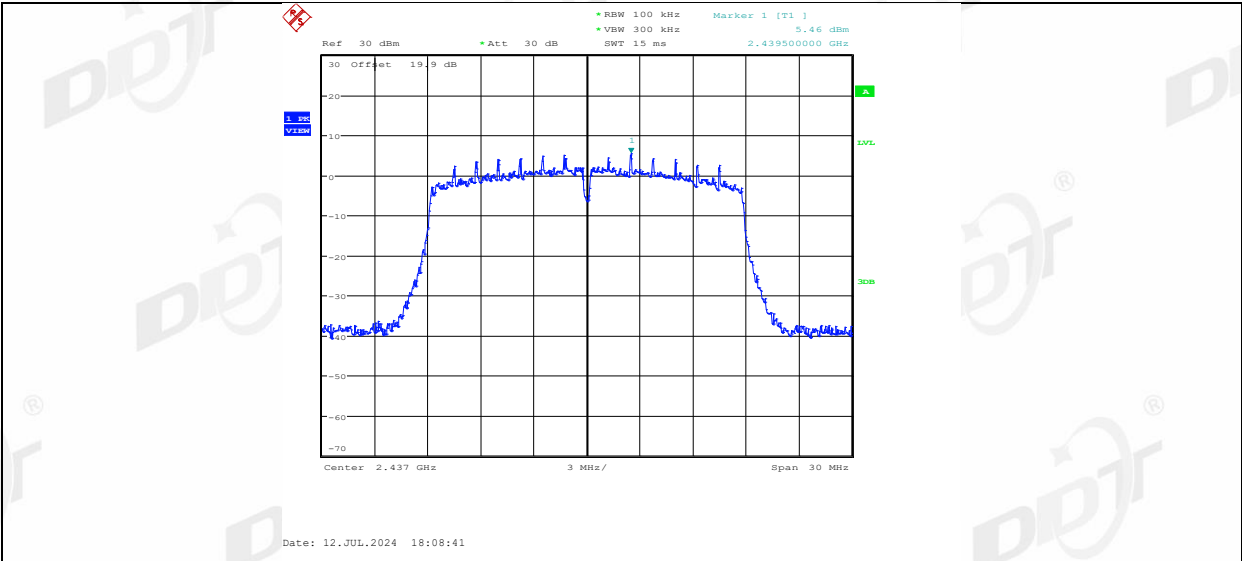
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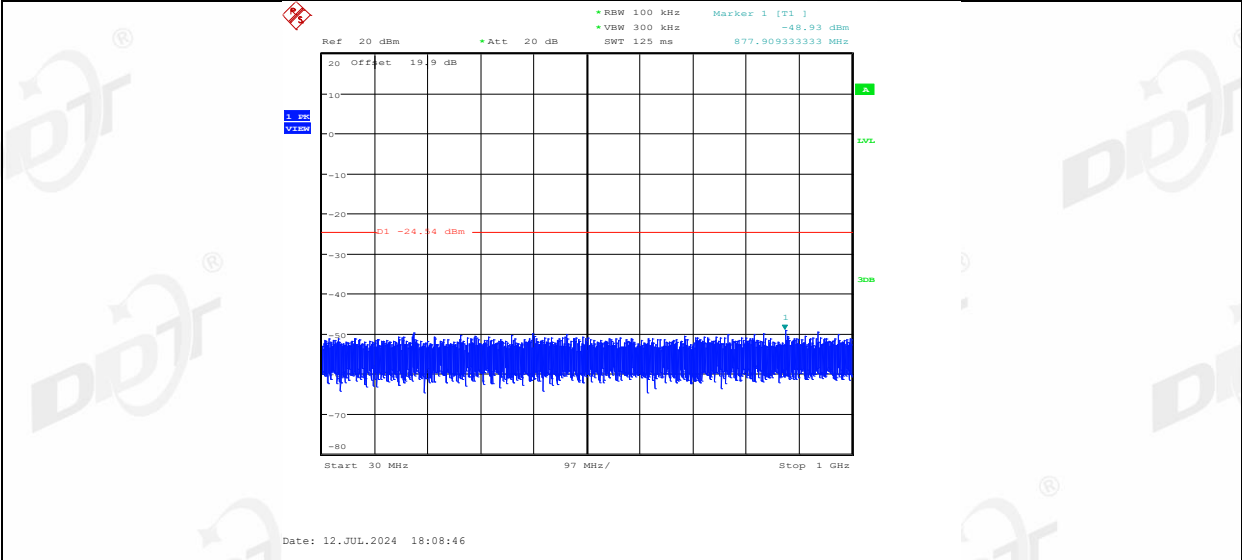
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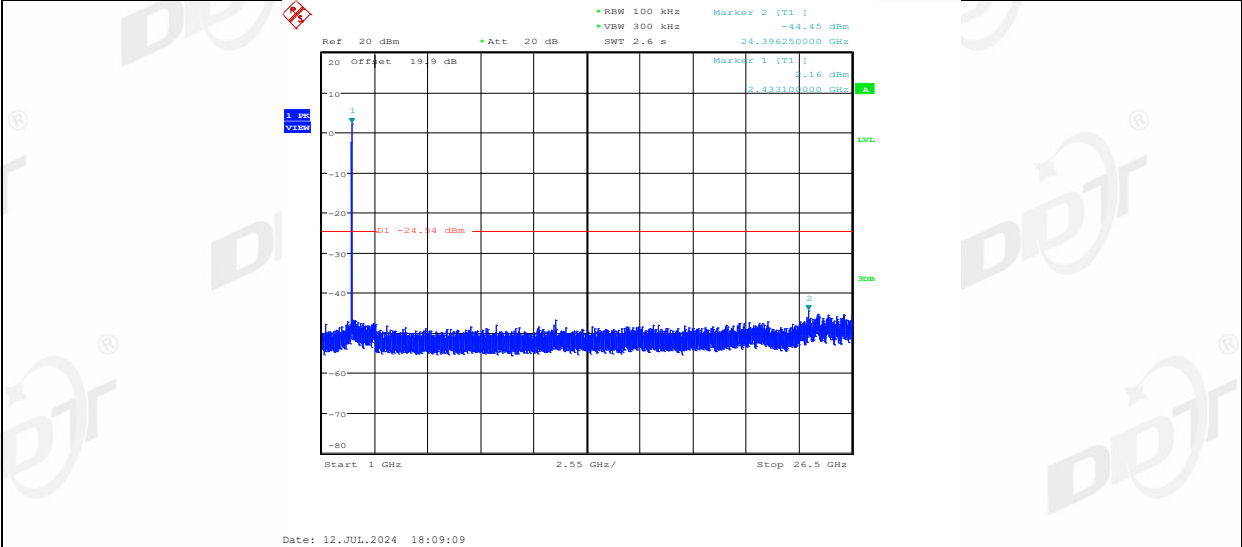
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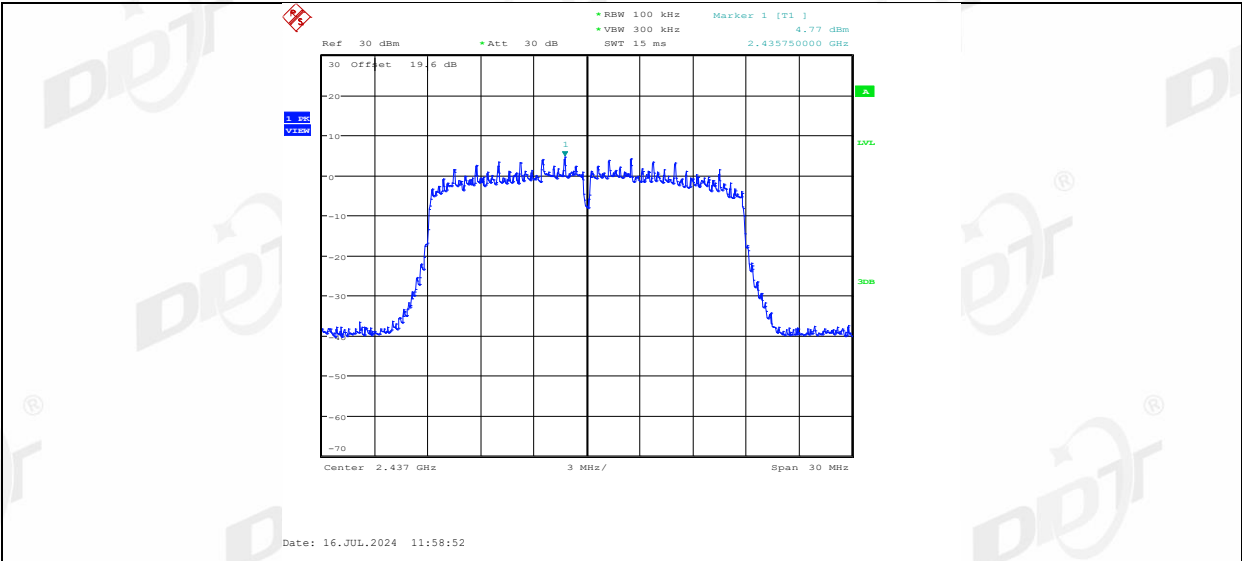
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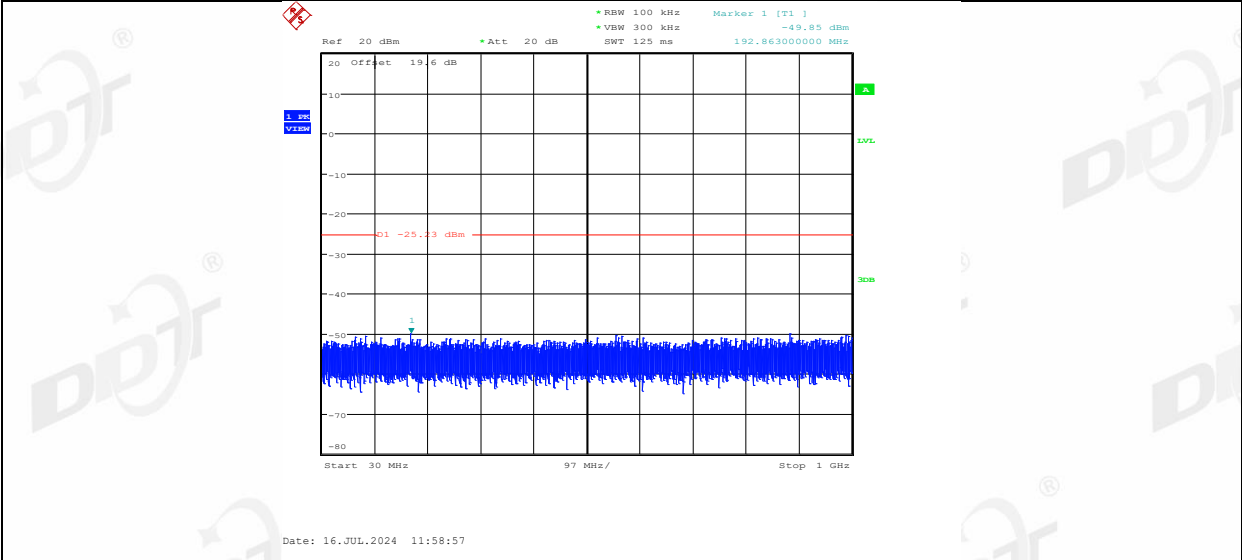
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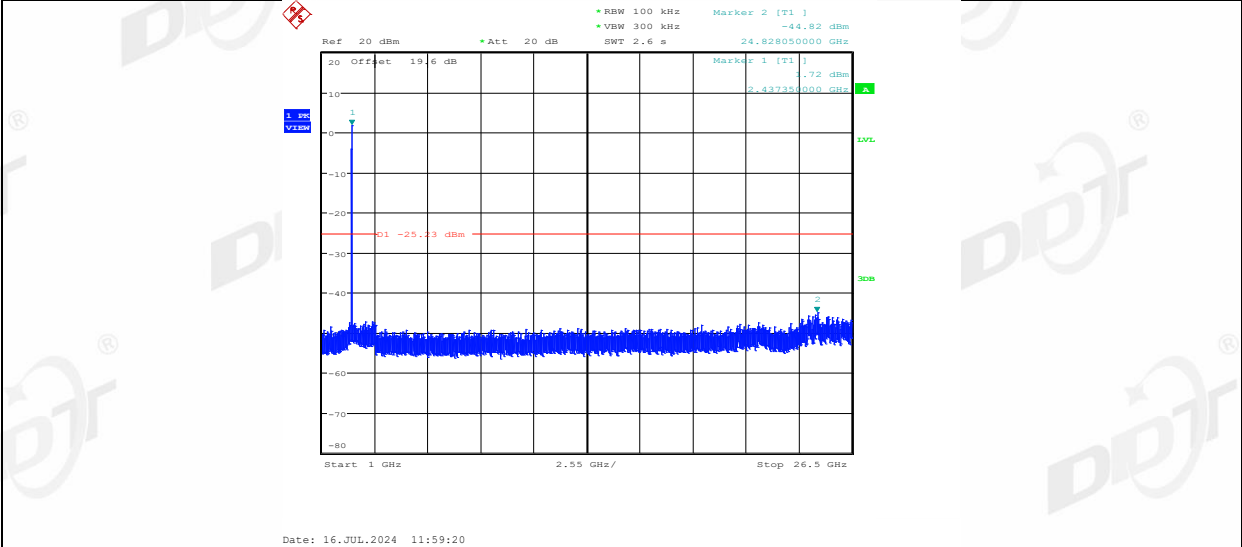
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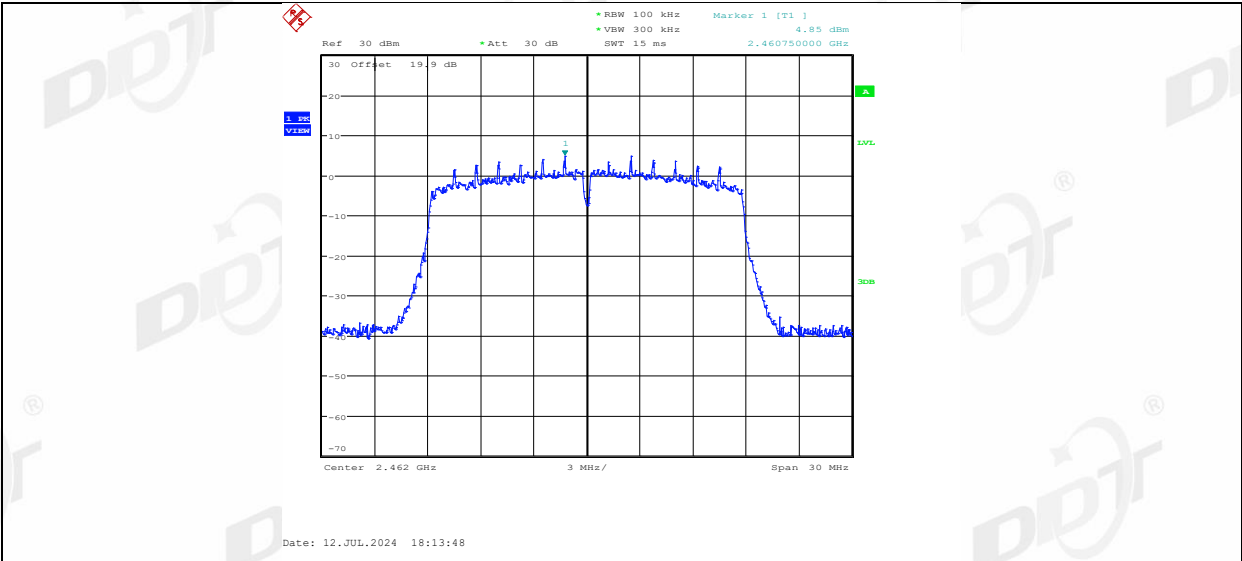
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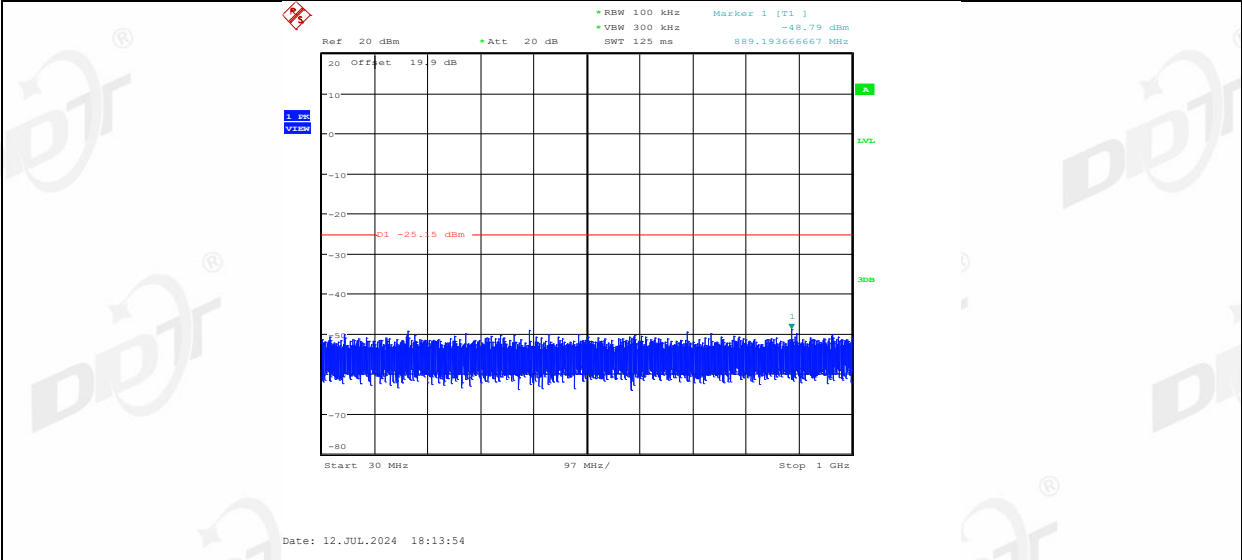
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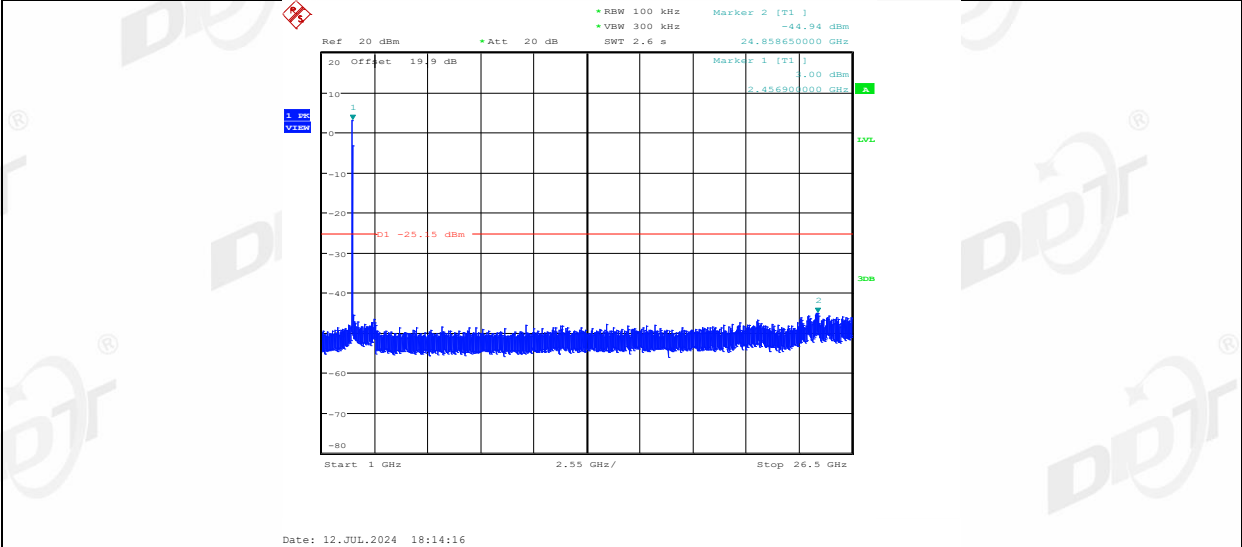
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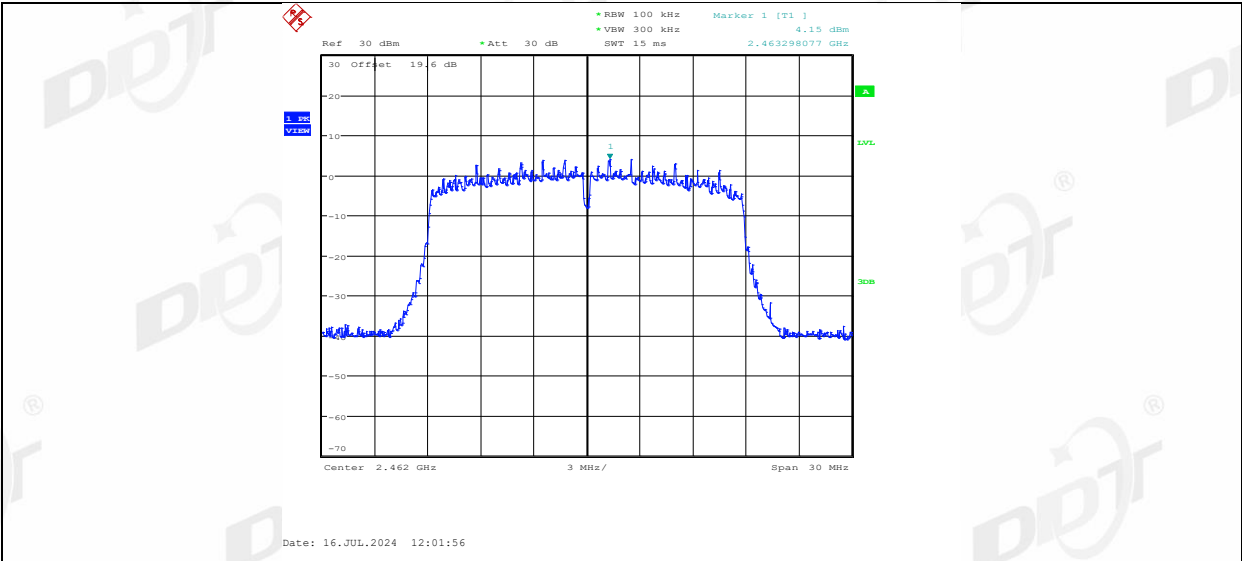
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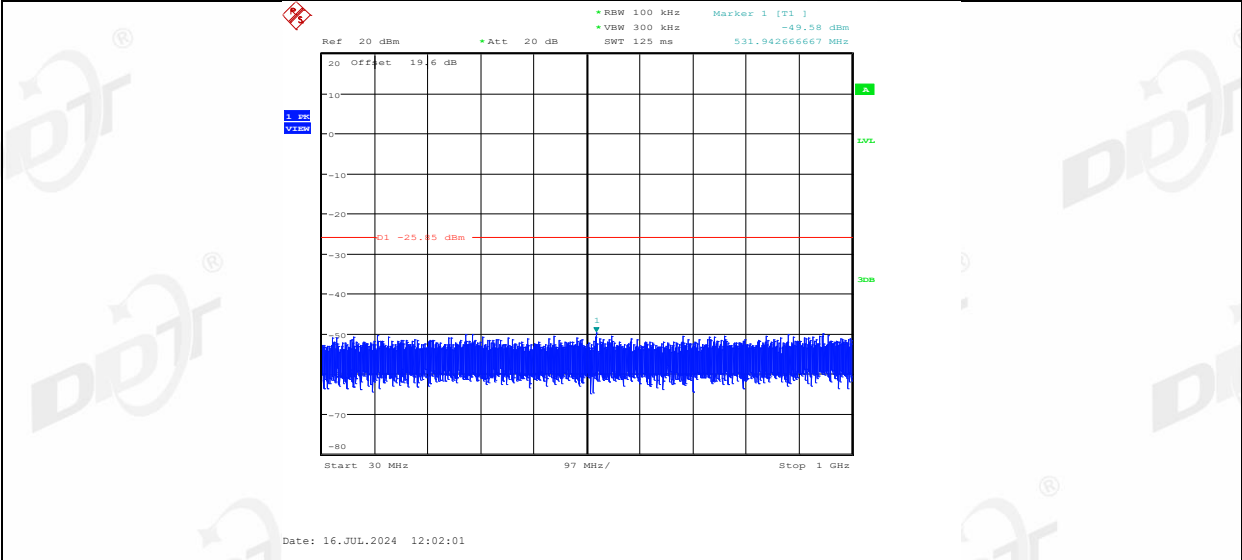
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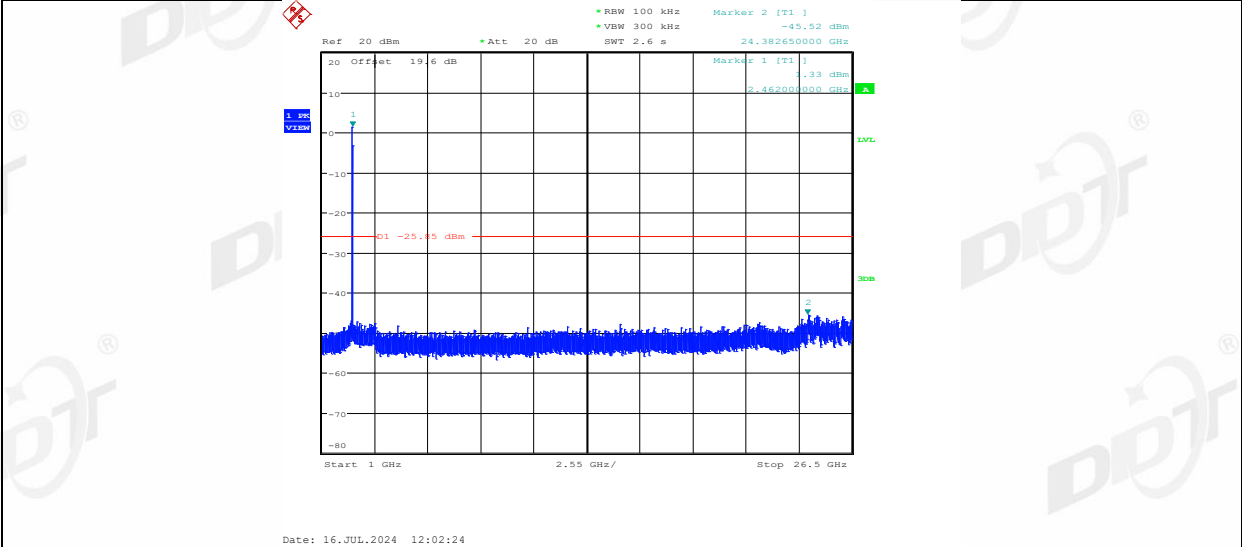
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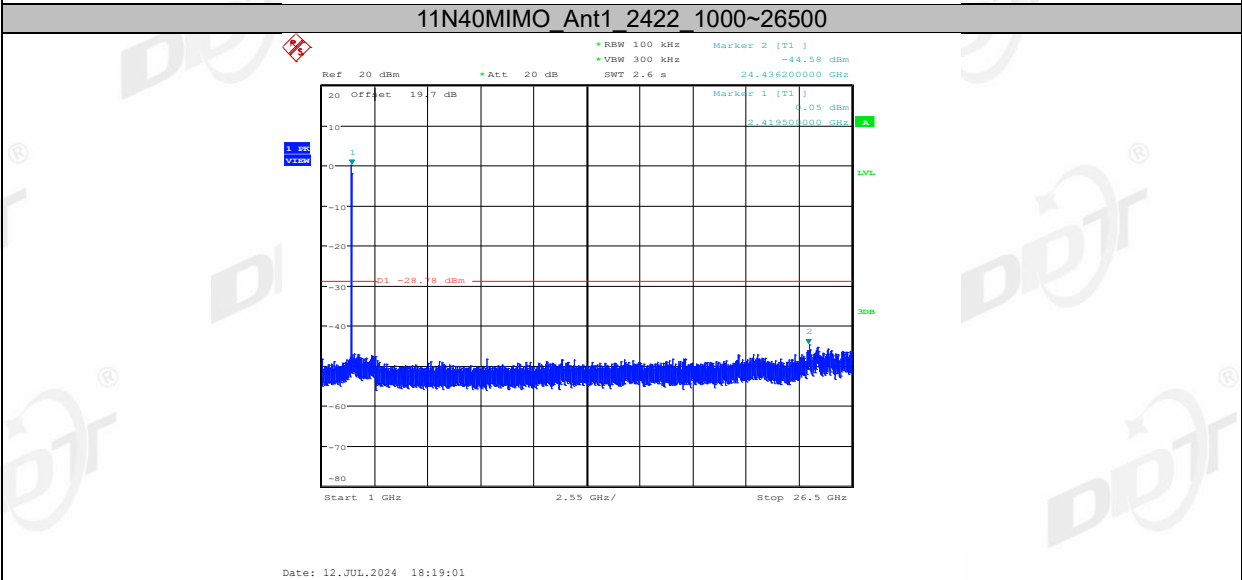
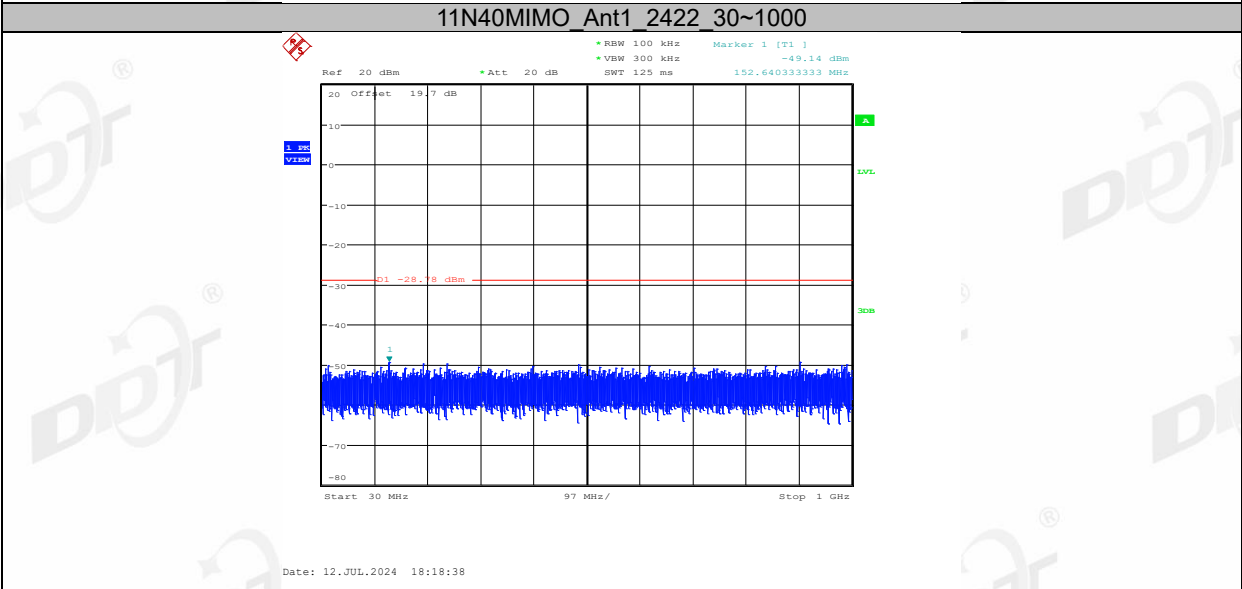
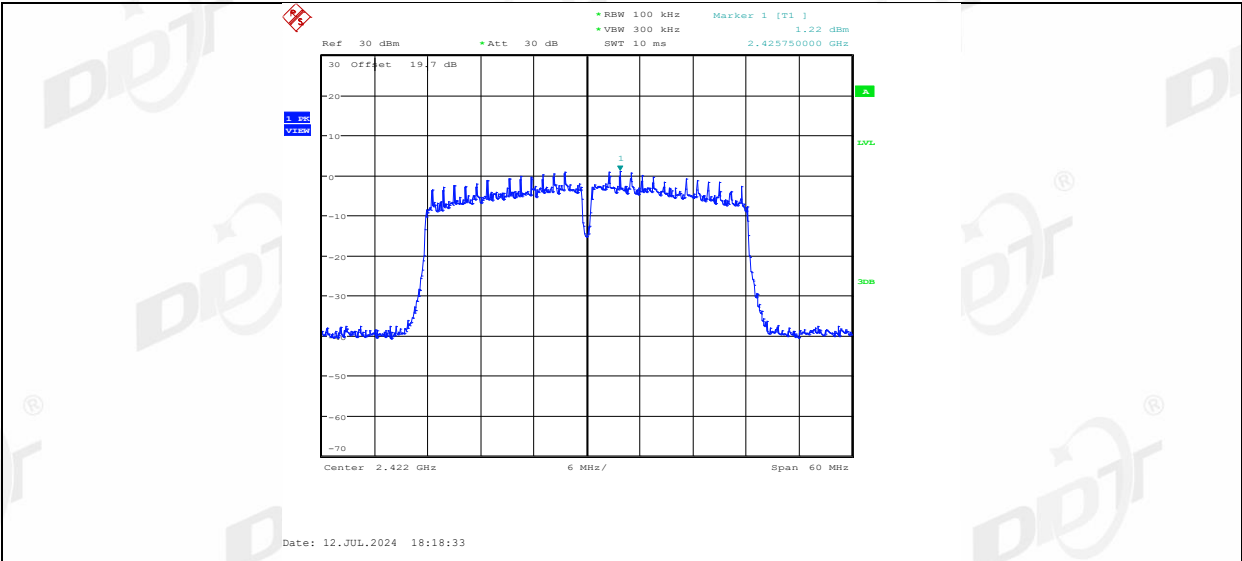
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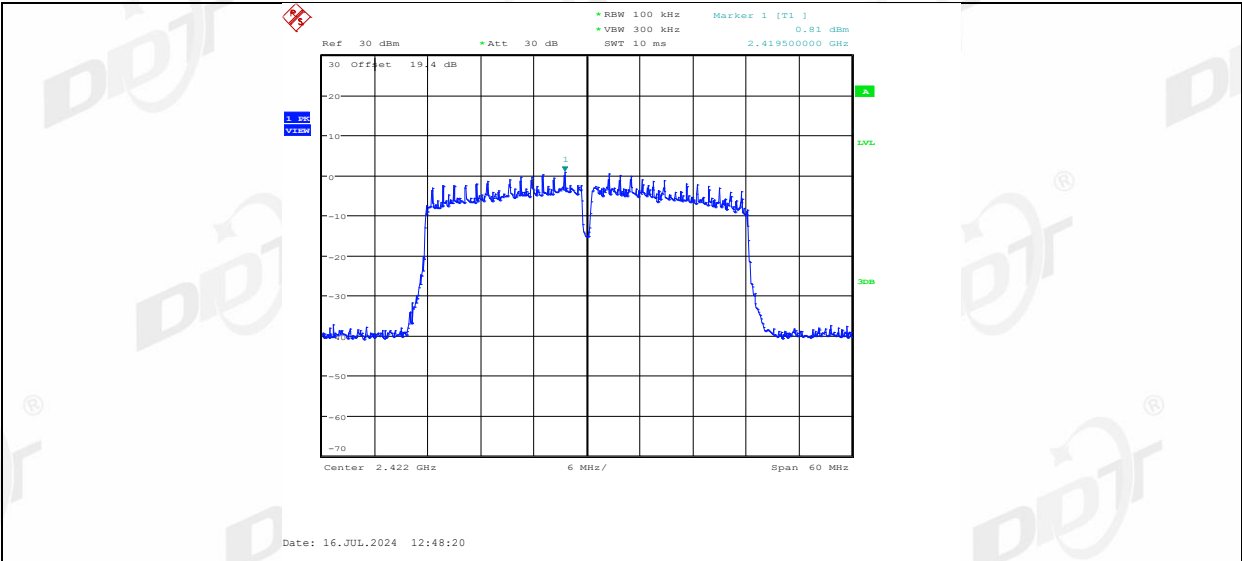


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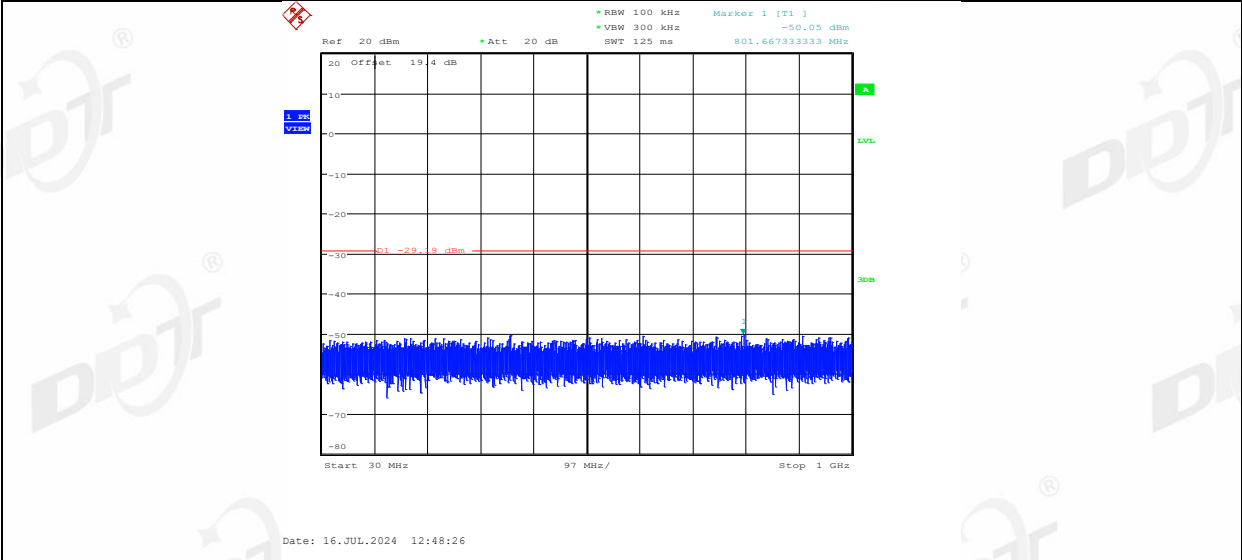


11N40MIMO_Ant1_2422_0~Reference

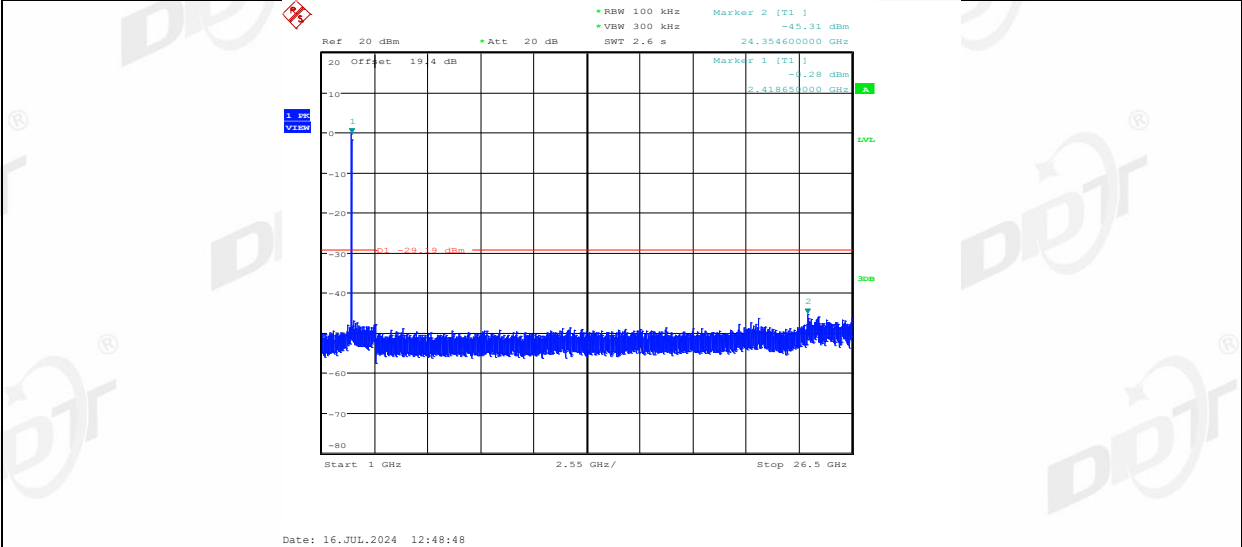




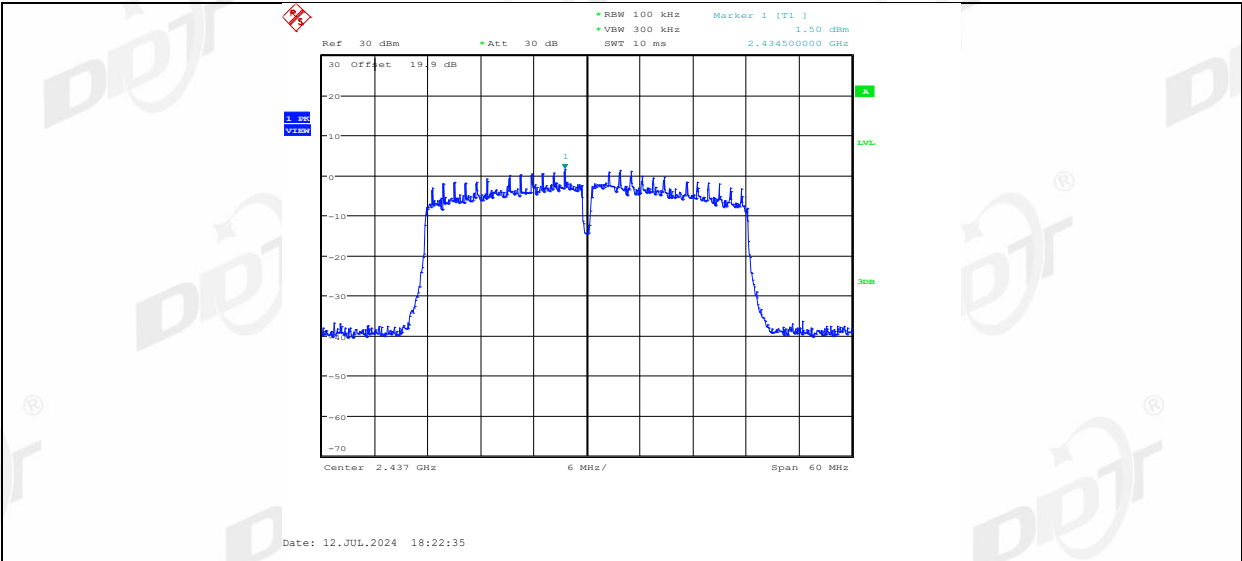
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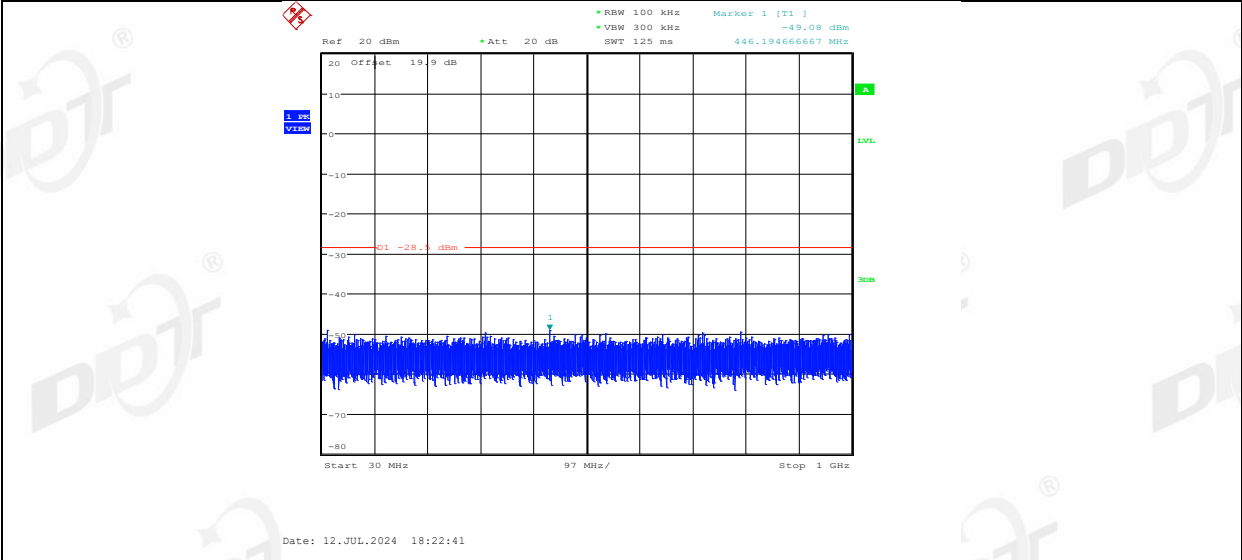
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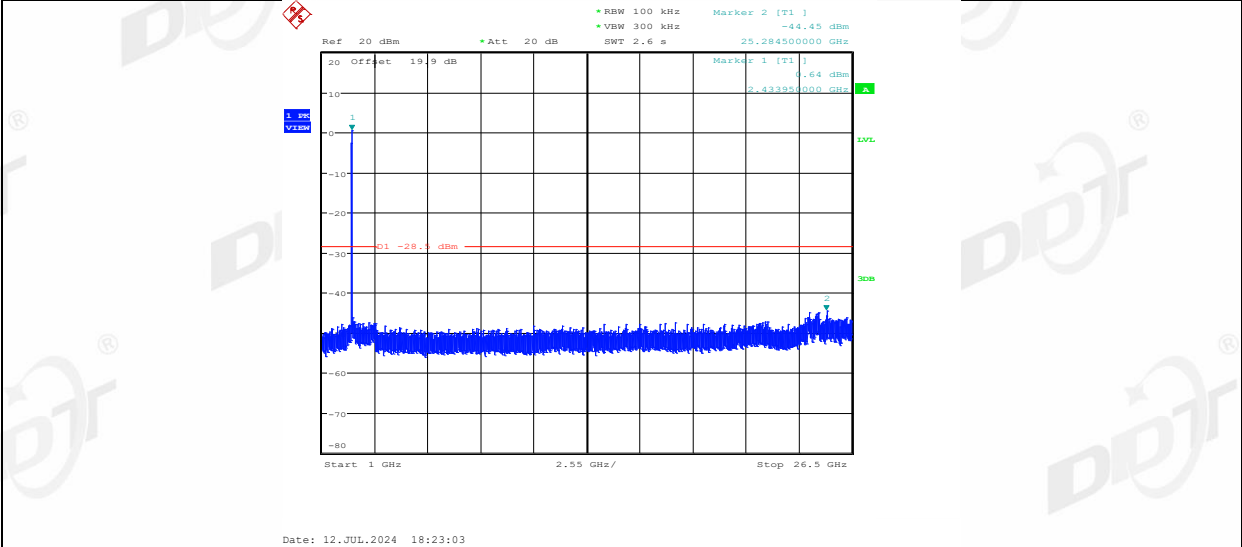
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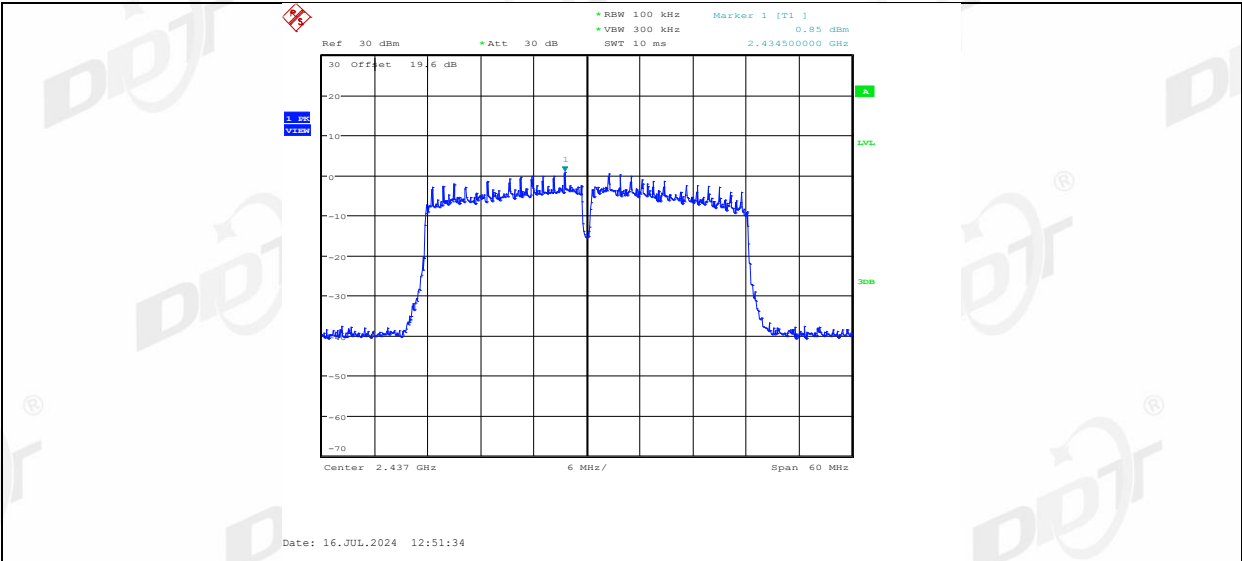
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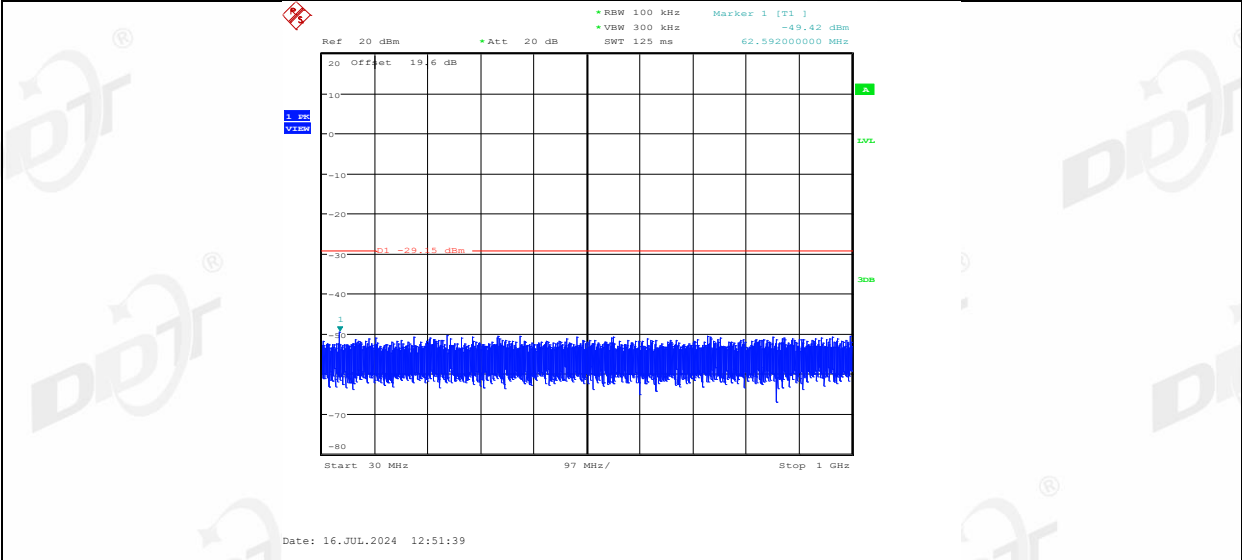
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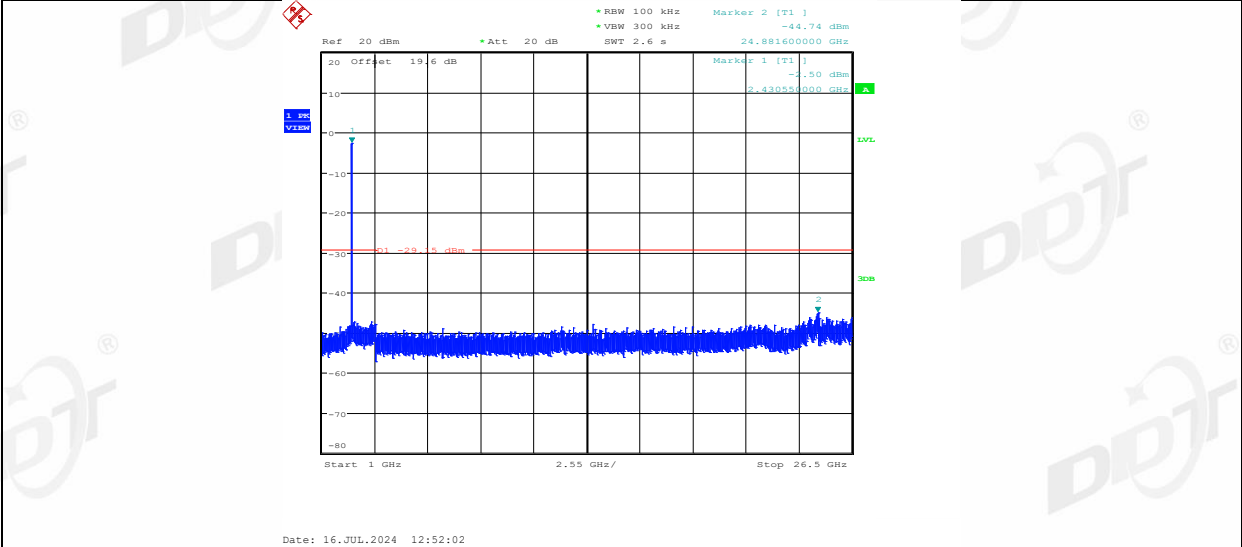
11N40MIMO_Ant2_2437_0~Reference



11N40MIMO_Ant2_2437_30~1000



11N40MIMO_Ant2_2437_1000~26500



11N40MIMO_Ant1_2452_0~Reference