



RADIO TEST REPORT

Applicant	:	Harman International Industries, Inc.
Address of Applicant	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES
Manufacturer	:	Harman International Industries, Inc.
Address of Manufacturer	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES
Equipment under Test	:	Wireless Speaker
Model No.	:	COVE M1
FCC ID	:	APICOVEM1
IC	:	6132A-COVEM1
Test Standard(s)	:	FCC Rules and Regulations Part 15 Subpart C, ANSI C63.10-2020, RSS-247 Issue 4 July 24, 2025, RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021), ANSI C63.10-2020+Cor.1-2023+C63.10a- 2024+Errata to C63.10a-2024
Report No.	:	DDT-RE26030303-2E03
Issue Date	:	2026/05/12
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 C63.10-2020,
RSS-247 Issue 4 July 24, 2025,
RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021),
ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024

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-RE26030303-2E03		
Date of Receipt:	2026/03/03	Date of Test:	2026/03/03 - 2026/04/30

Created: Zoe Peng	Reviewed: Chen Ziqin	Approved: Ella Gong
		
2026/04/30	2026/05/11	2026/05/12

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

Version	Revision Content	Issue Date	Approved
V0	Initial issue	2026/05/12	Ella Gong

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	6 dB Bandwidth and 99% Bandwidth	47 CFR Part 15 15.247(a)(2), RSS-247 clause 6.3.1(a), RSS-Gen clause 6.7	/	Pass
2	Peak Output Power	47 CFR Part 15 15.247(b)(3), RSS-247 clause 6.3.2	/	Pass
3	Power Spectral Density	47 CFR Part 15 15.247(e), RSS-247 clause 6.3.1(b)	/	Pass
4	RF Conducted Spurious Emissions	47 CFR Part 15 15.247(d), RSS-247 clause 6.6	/	Pass
5	Radiated Emission	47 CFR Part 15 15.205, 47 CFR Part 15 15.209, 47 CFR Part 15 15.247(d), RSS-247 clause 6.6, RSS-Gen clause 8.9, RSS-Gen clause 8.10	/	Pass
6	Band Edge Compliance	47 CFR Part 15 15.205, 47 CFR Part 15 15.209, 47 CFR Part 15 15.247(d), RSS-247 clause 6.6, RSS-Gen clause 8.9, RSS-Gen clause 8.10	/	Pass
7	Antenna Requirement	47 CFR Part 15 15.203, RSS-Gen clause 6.8	/	Pass
8	Power Line Conducted Emissions	47 CFR Part 15 15.207(a), RSS-Gen clause 8.8	/	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	: Wireless Speaker
Model Number	: COVE M1
Difference of model number	: /
EUT Function Description	: Please reference user manual of this device
Power Supply	: AC 100-240V~, 50/60Hz, 18W
Hardware Version	: V1.0
Software Version	: 26.11.51.30.10
Antenna Type	: FPC
Max Antenna Gain(dBi)	: Bluetooth antenna Maximum PK gain:1.92 dBi 2.4G WiFi antenna Maximum PK gain: ANT1: 1.68 dBi ANT2: 1.98 dBi 5G WiFi antenna Maximum PK gain: ANT1: 2.79 dBi ANT2: 2.92 dBi

Radio Technology	: IEEE 802.11b/g/n/ax
Operation frequency	: IEEE 802.11b: 2412MHz to 2462MHz IEEE 802.11g: 2412MHz to 2462MHz IEEE 802.11n HT20: 2412MHz to 2462MHz IEEE 802.11n HT40: 2422MHz to 2452MHz IEEE 802.11ax HE20: 2412MHz to 2462MHz IEEE 802.11ax HE40: 2422MHz to 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, 256QAM, 64QAM, 16QAM, QPSK, BPSK)

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	/	/

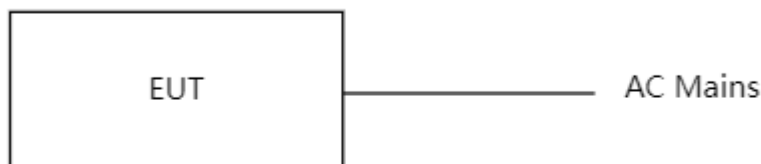
Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's 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 cable	Harman	N/A	N/A

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: adb.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, Tx Power Setting, Data rate, Channel, and Frequency					
Tested mode	Tx Power Setting		Data rate (Mbps) (see Note)	Test Channel	Frequency (MHz)
	ANT1	ANT2			
IEEE 802.11b	15	15	1	LCH: CH1	2412
	15	15	1	MCH: CH6	2437
	15	15	1	HCH: CH11	2462
IEEE 802.11g	15	15	6	LCH: CH1	2412
	15	15	6	MCH: CH6	2437
	15	15	6	HCH: CH11	2462
IEEE 802.11n HT20	12	12	MCS 8	LCH: CH1	2412
	12	12	MCS 8	MCH: CH6	2437
	12	12	MCS 8	HCH: CH11	2462
IEEE 802.11n HT40	12	12	MCS 8	LCH: CH3	2422
	12	12	MCS 8	MCH: CH6	2437
	12	12	MCS 8	HCH: CH9	2452
IEEE 802.11ax	SU: 13 RU:12	SU: 13 RU:12	MCS 0	LCH: CH1	2412

HE20	SU: 13 RU:12	SU: 13 RU:12	MCS 0	MCH: CH6	2437
	SU: 13 RU:12	SU: 13 RU:12	MCS 0	HCH: CH11	2462
IEEE 802.11ax HE40	SU: 12 RU:12	SU: 12 RU:12	MCS 0	LCH: CH3	2422
	SU: 12 RU:12	SU: 12 RU:12	MCS 0	MCH: CH6	2437
	SU: 12 RU:12	SU: 12 RU:12	SU: 12 RU:12	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 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.

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-20240, G-20118

2.8. Measurement uncertainty

Test Item	Uncertainty
Bandwidth	1.9%
Peak Output Power (Conducted) (Spectrum analyzer)	0.98 dB
Peak Output Power (Conducted) (Power Sensor)	1.18 dB
Power Spectral Density (Base EIRP)	1.51 dB
Power Spectral Density (Spectrum analyzer)	0.98 dB
Frequencies Stability	1.9 kHz
Conducted spurious emissions	1.21 dB ($9\text{ kHz} \leq f < 7\text{ GHz}$);
	3.31 dB ($7\text{ GHz} \leq f < 40\text{ GHz}$)
Uncertainty for radio frequency (RBW < 20 kHz)	5.5×10^{-8}
Time	0.11%
Temperature	0.3 °C
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.28 dB (Antenna Polarize: V)
	4.14 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.22 dB (1 - 6 GHz)
	4.52 dB (6 GHz - 18 GHz)
	4.58 dB (18 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.32dB (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.	

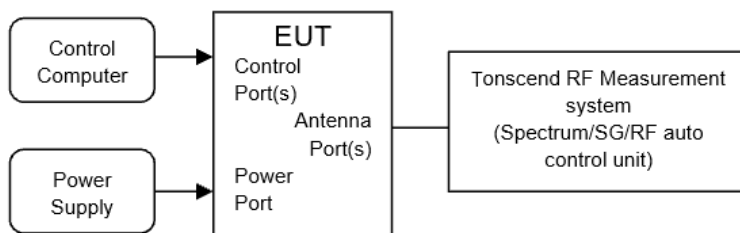
3. Equipment Used During Conductive Test

Equipment	Manufacturer	Model No.	Serial Number	Due Date
☑RF Connected Test (RF Measurement System 4#)				
Signal &Spectrum Analyzer	R&S	FSV3044	101173	2027/02/28
Wideband Radio Communication Tester	R&S	CMW500	168801	2027/02/28
MXG Vector Signal Generator	Agilent	N5182A	MY48180737	2026/08/28
PSG Vector Signal Generator	Agilent	E8267D	US49060192	2026/08/10
RF Control Unit	Tonscend	JS0806-2	21I8060485	2027/02/28
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2026/08/12
Test Software	Tonscend	JS1120-3	V3.6.21	N/A

Equipment	Manufacturer	Model No.	Serial Number	Due Date
☑RF Connected Test (RF Measurement System 3#)				
SIGNAL ANALYZER	R&S	FSV40	101407	2026/07/06
Wideband Radio Communication Tester	R&S	CMW500	120259	2026/07/06
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY62153058	2026/07/06
MXG Vector Signal Generator	Agilent	N5182A	MY48180912	2027/02/27
RF Control Unit	Tonscend	JS0806-2	20C8060230	2027/03/17
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2027/02/27
Test Software	Tonscend	JS1120-3	V3.6.21	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 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

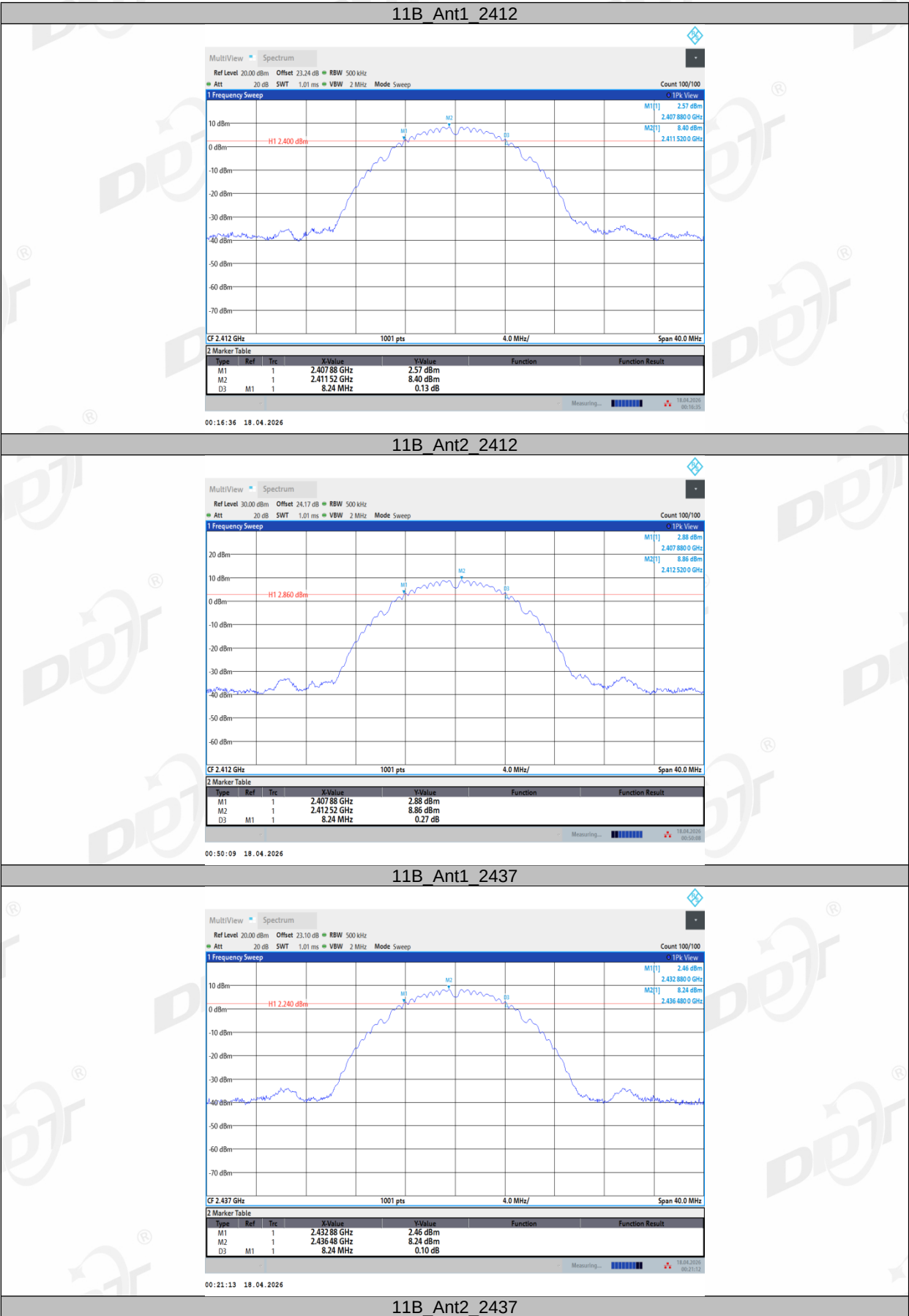
Allow the trace to stabilize, measure the 6 dB bandwidth of signal, and record the results in the report

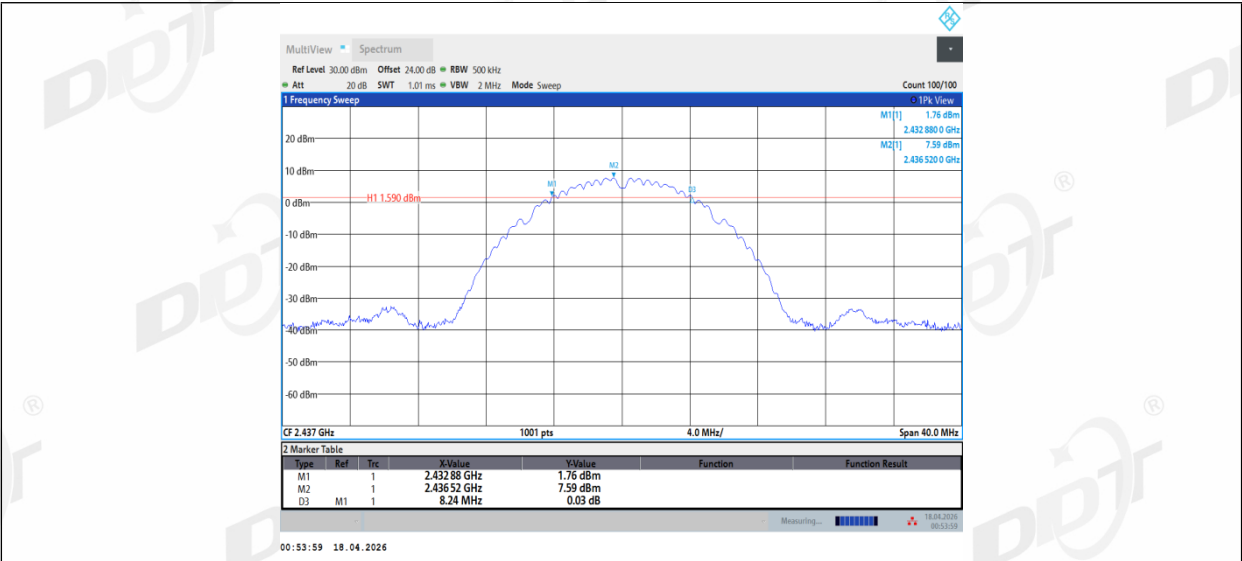
4.4. Test result

Test Engineer:	Lin Guoyuan	Test Site:	RF Measurement System 4#
Ambient Condition:	26.1-27.5℃,36.5-42.1%RH	Test Date:	2026.03.24-2026.04.18
Test Power Supply:	AC 100-240V,~50/60Hz	Sample Number:	S26030303-003

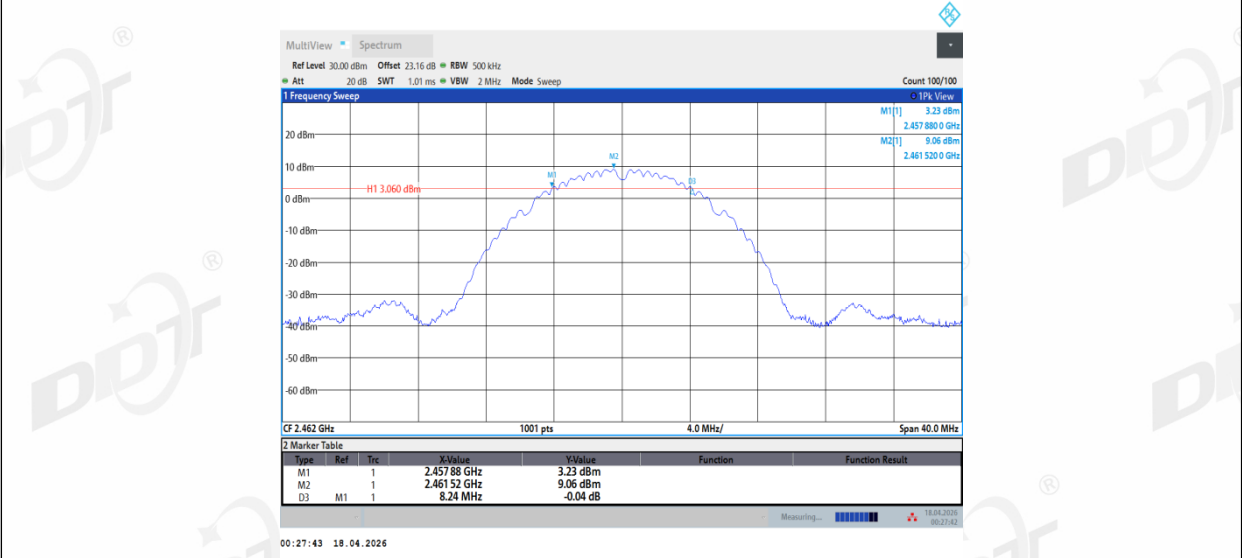
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	8.24	2407.88	2416.12	0.5	PASS
	Ant2	2412	8.24	2407.88	2416.12	0.5	PASS
	Ant1	2437	8.24	2432.88	2441.12	0.5	PASS
	Ant2	2437	8.24	2432.88	2441.12	0.5	PASS
	Ant1	2462	8.24	2457.88	2466.12	0.5	PASS
	Ant2	2462	8.24	2457.88	2466.12	0.5	PASS
11G	Ant1	2412	15.96	2404.12	2420.08	0.5	PASS
	Ant2	2412	16.08	2404.00	2420.08	0.5	PASS
	Ant1	2437	16.40	2428.84	2445.24	0.5	PASS
	Ant2	2437	16.48	2428.76	2445.24	0.5	PASS
	Ant1	2462	16.36	2453.84	2470.20	0.5	PASS
	Ant2	2462	16.40	2453.84	2470.24	0.5	PASS
11N20MIMO	Ant1	2412	17.00	2403.48	2420.48	0.5	PASS
	Ant2	2412	16.32	2403.80	2420.12	0.5	PASS
	Ant1	2437	17.56	2428.20	2445.76	0.5	PASS
	Ant2	2437	16.52	2428.68	2445.20	0.5	PASS
	Ant1	2462	17.52	2453.20	2470.72	0.5	PASS
	Ant2	2462	16.76	2453.56	2470.32	0.5	PASS
11N40MIMO	Ant1	2422	35.76	2404.16	2439.92	0.5	PASS
	Ant2	2422	35.36	2404.40	2439.76	0.5	PASS
	Ant1	2437	35.76	2419.16	2454.92	0.5	PASS
	Ant2	2437	35.44	2419.32	2454.76	0.5	PASS
	Ant1	2452	35.60	2434.24	2469.84	0.5	PASS
	Ant2	2452	35.44	2434.24	2469.68	0.5	PASS
11AX20MIMO	Ant1	2412	18.72	2402.68	2421.40	0.5	PASS
	Ant2	2412	18.52	2402.84	2421.36	0.5	PASS
	Ant1	2437	18.76	2427.64	2446.40	0.5	PASS
	Ant2	2437	18.52	2427.56	2446.08	0.5	PASS
	Ant1	2462	18.64	2452.64	2471.28	0.5	PASS
	Ant2	2462	19.00	2452.52	2471.52	0.5	PASS
11AX40MIMO	Ant1	2422	37.84	2403.12	2440.96	0.5	PASS
	Ant2	2422	37.28	2403.36	2440.64	0.5	PASS
	Ant1	2437	37.84	2418.04	2455.88	0.5	PASS
	Ant2	2437	37.60	2418.12	2455.72	0.5	PASS
	Ant1	2452	37.76	2433.12	2470.88	0.5	PASS
	Ant2	2452	37.60	2433.12	2470.72	0.5	PASS

4.5. Test graphs

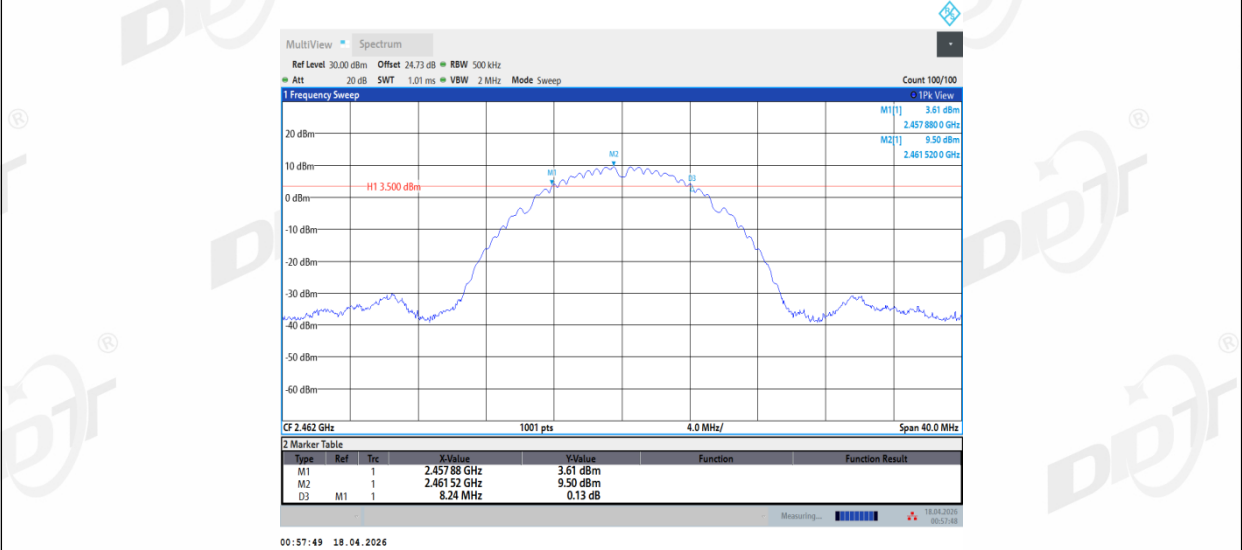




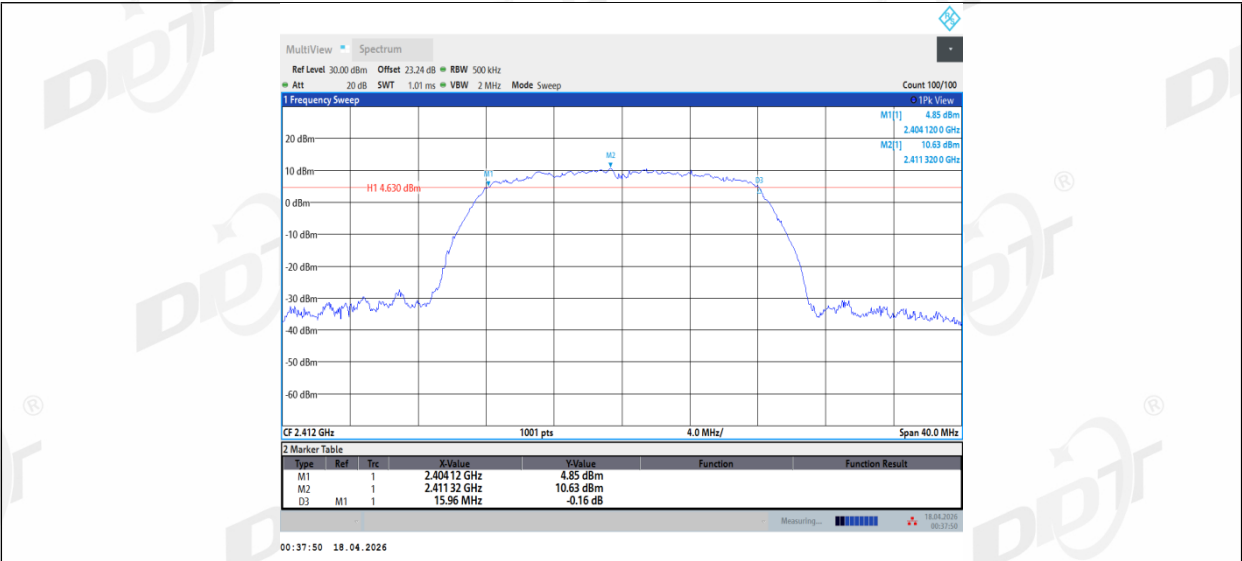
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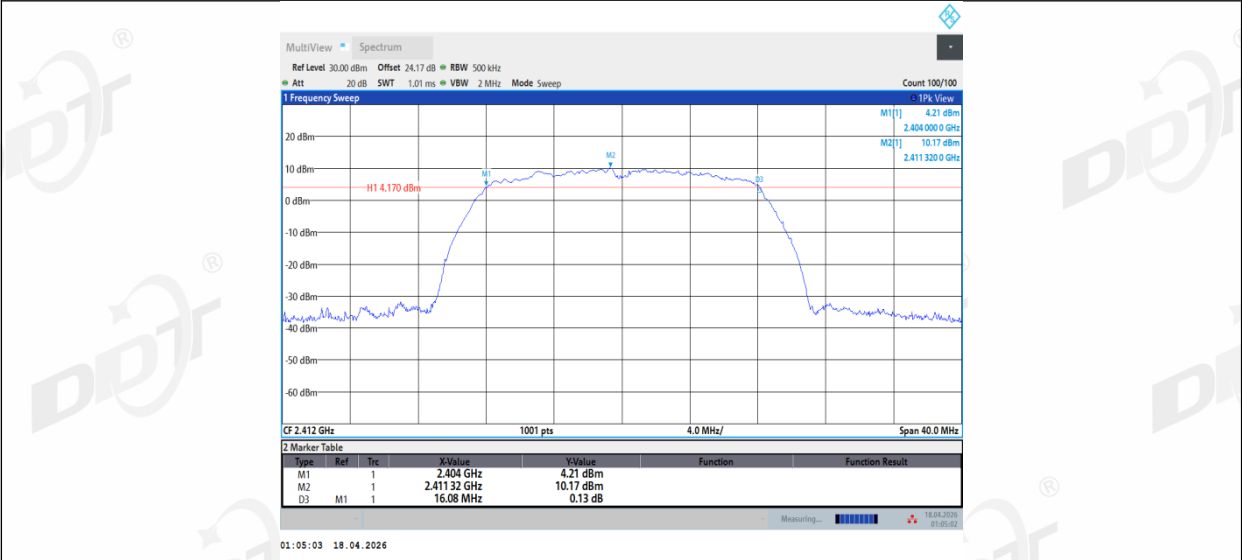
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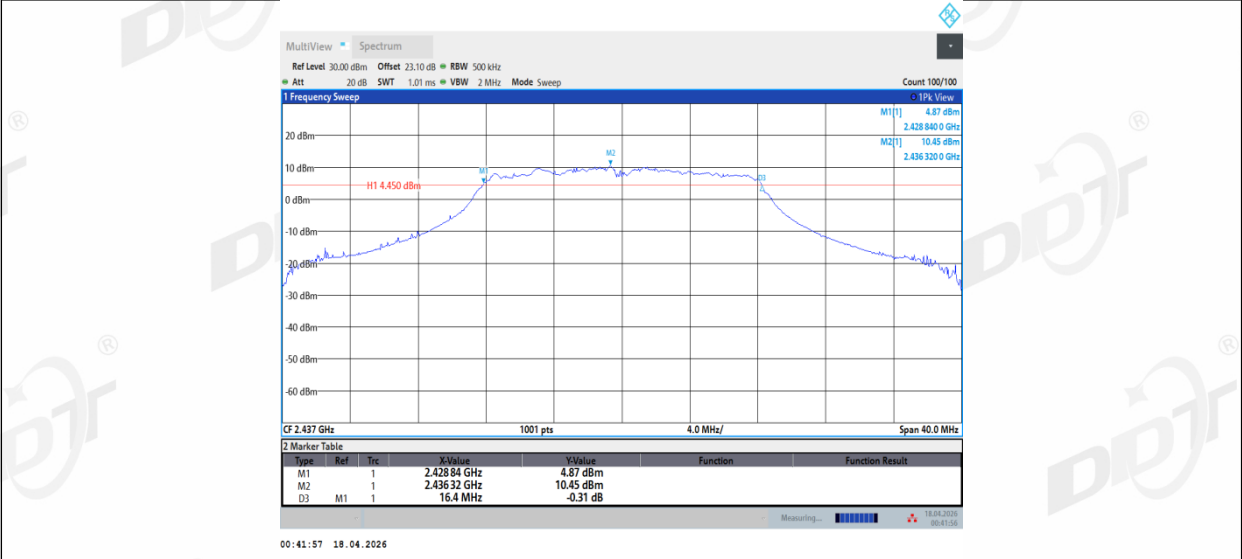
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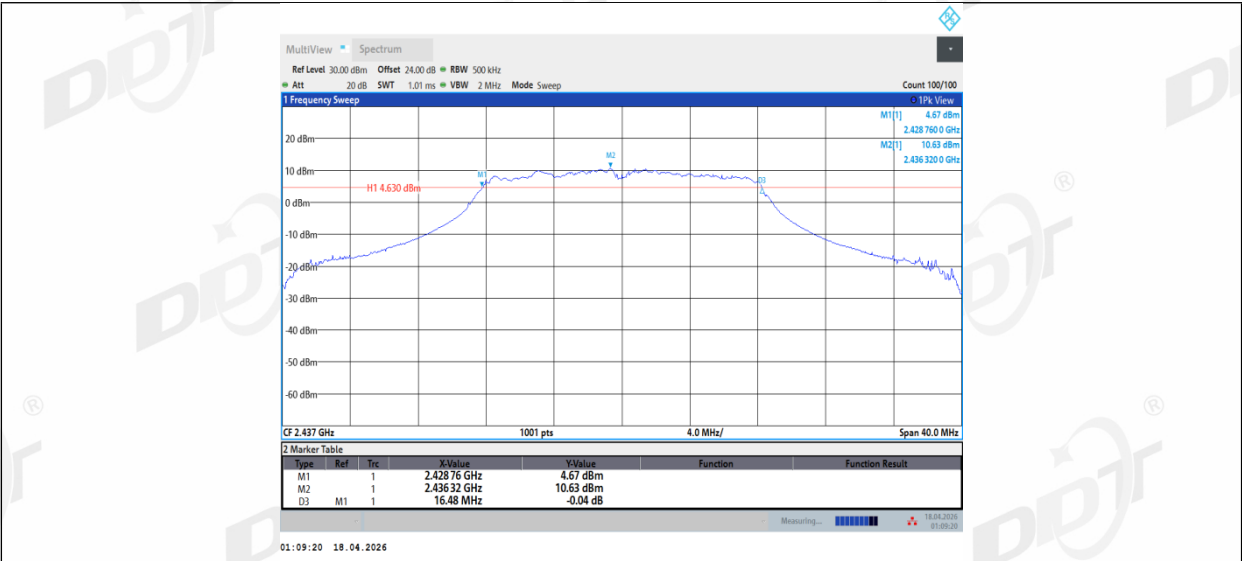
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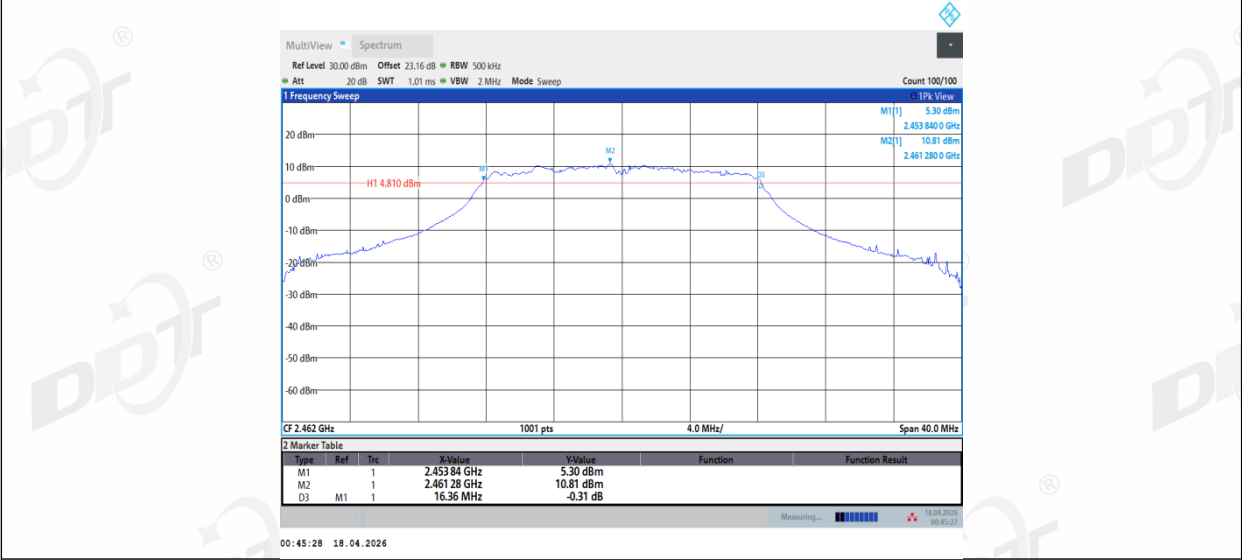
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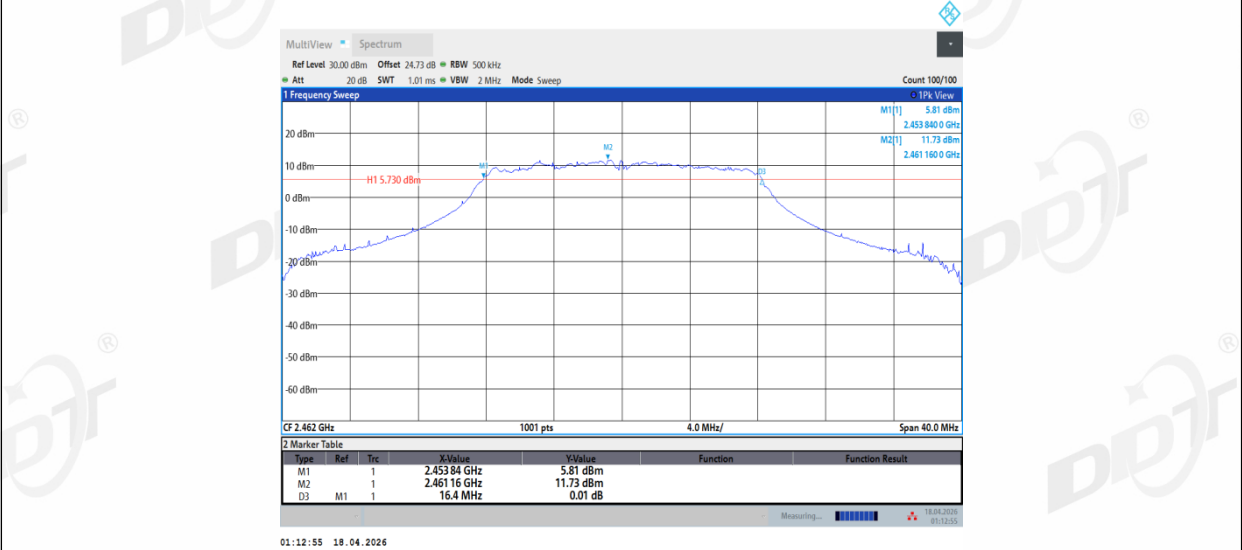
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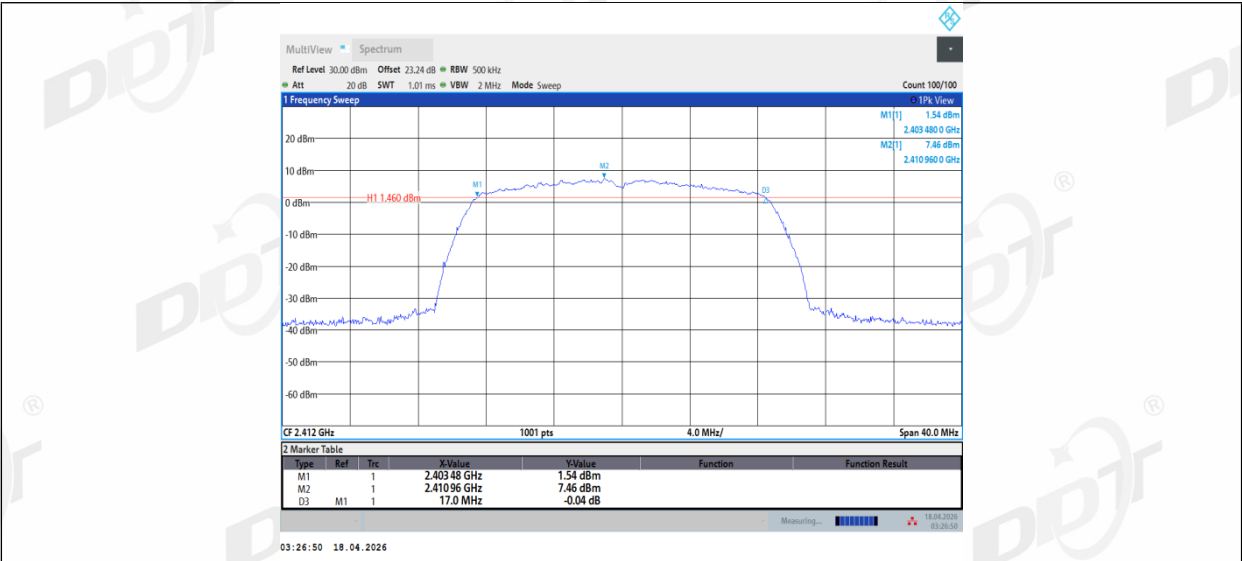
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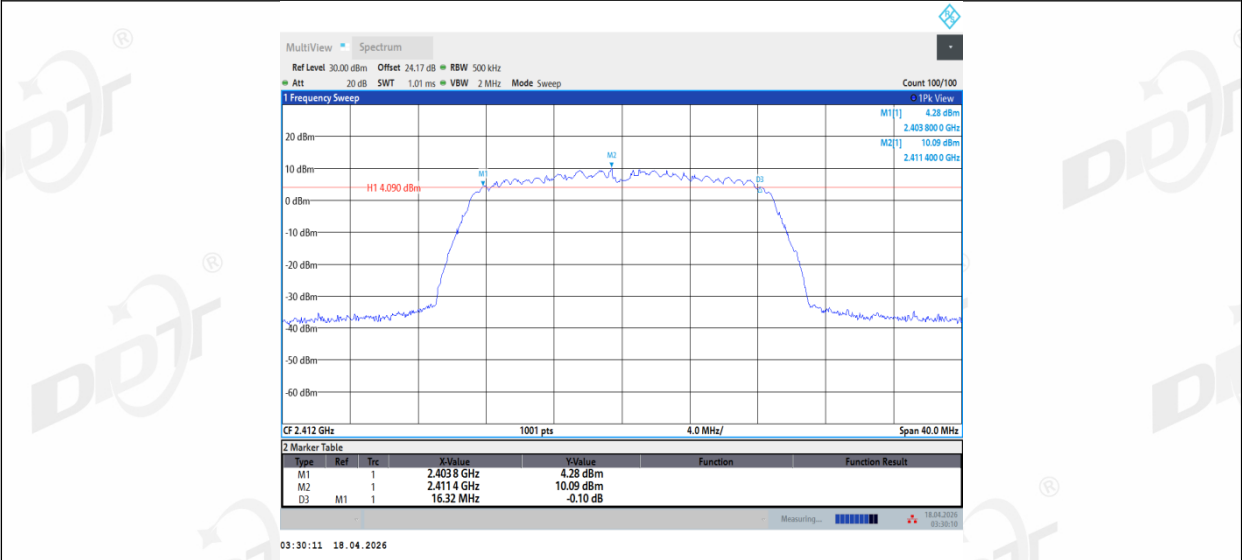
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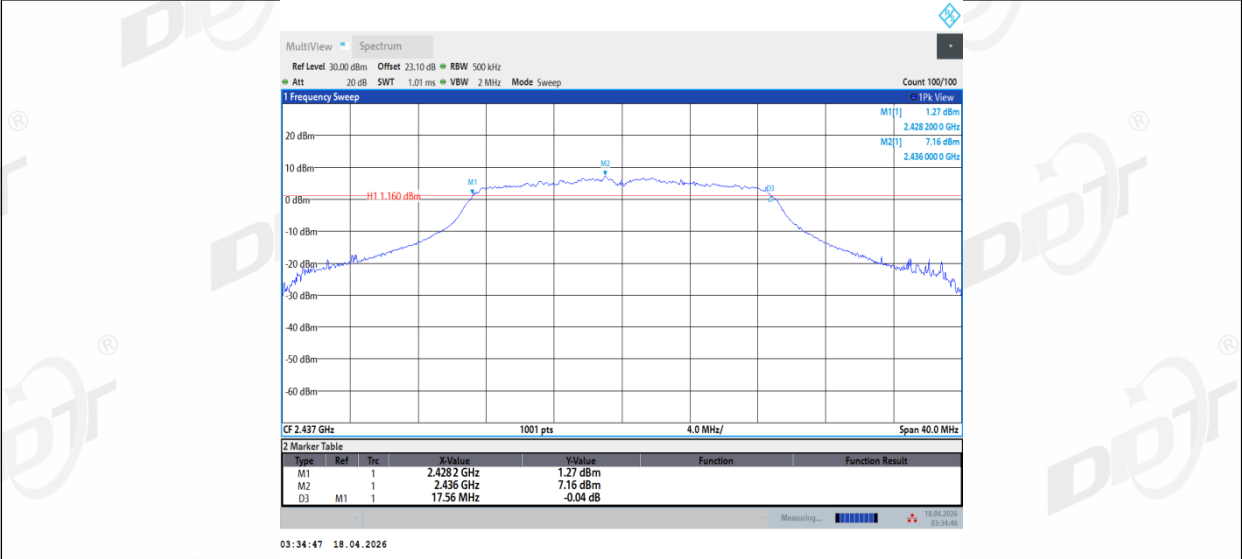
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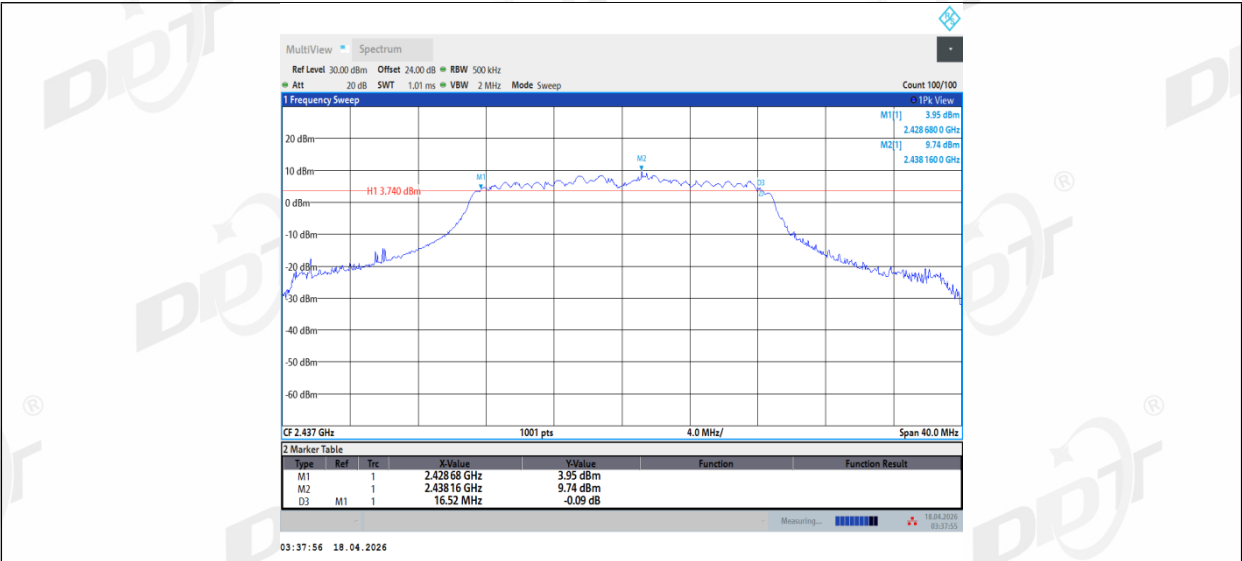
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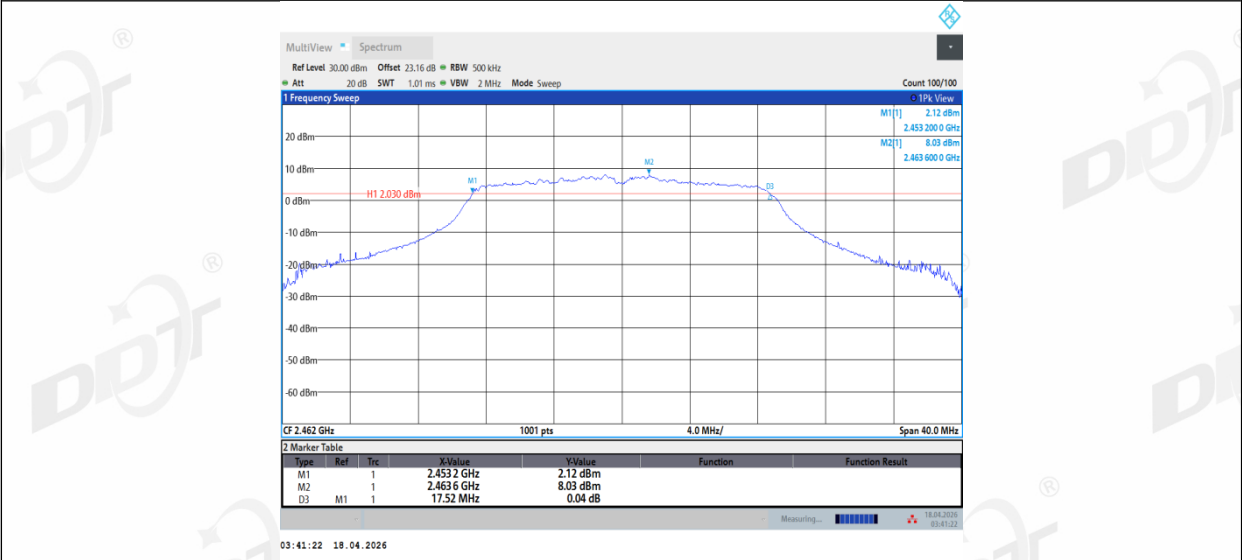
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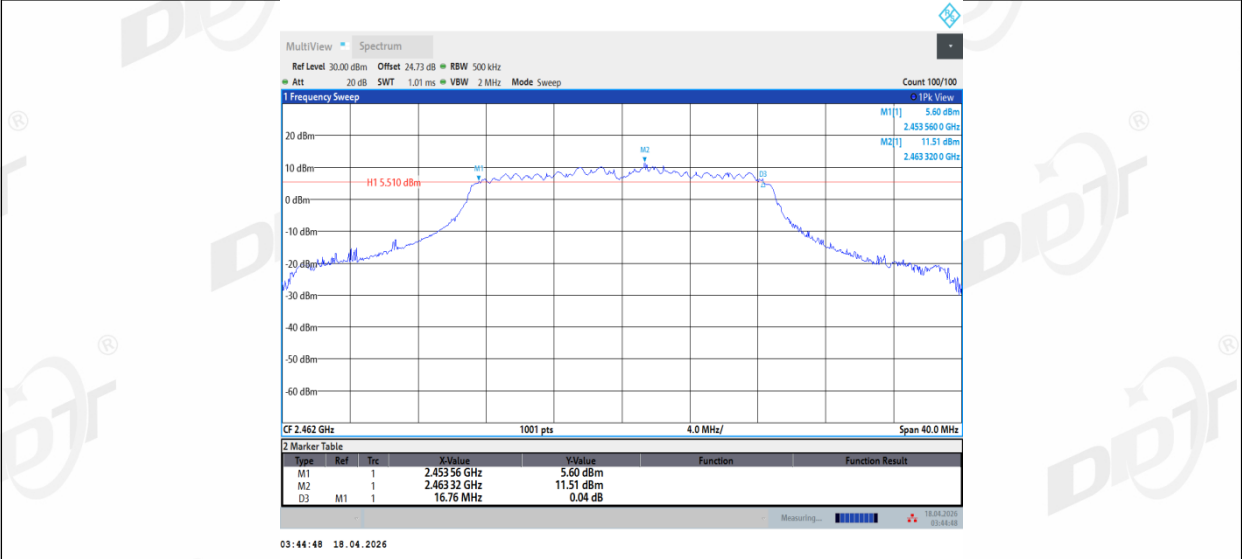
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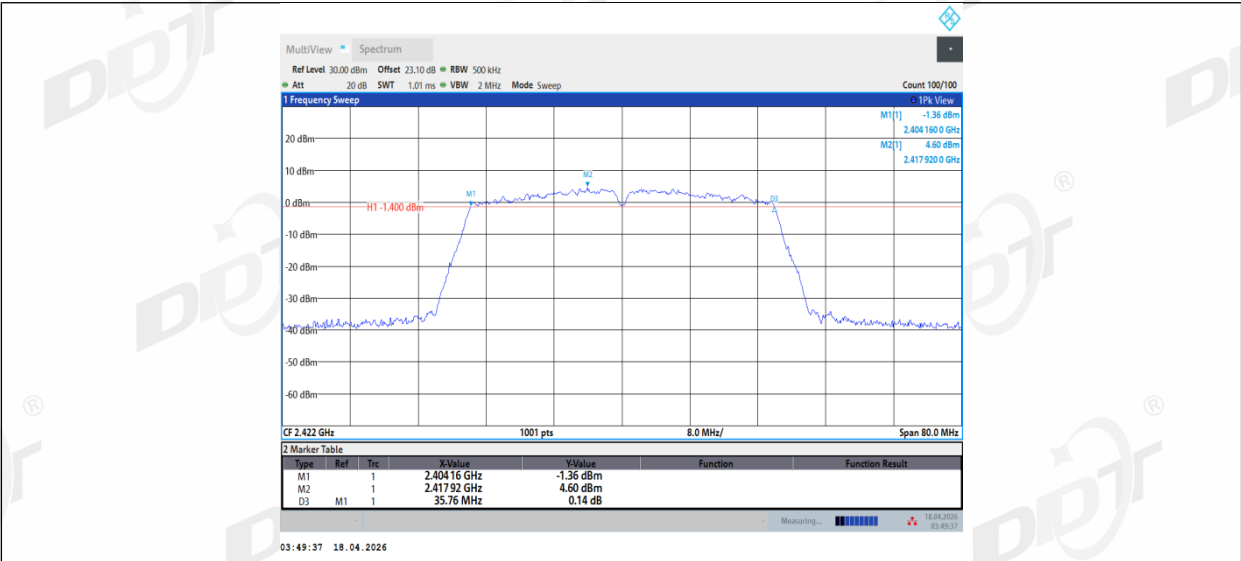
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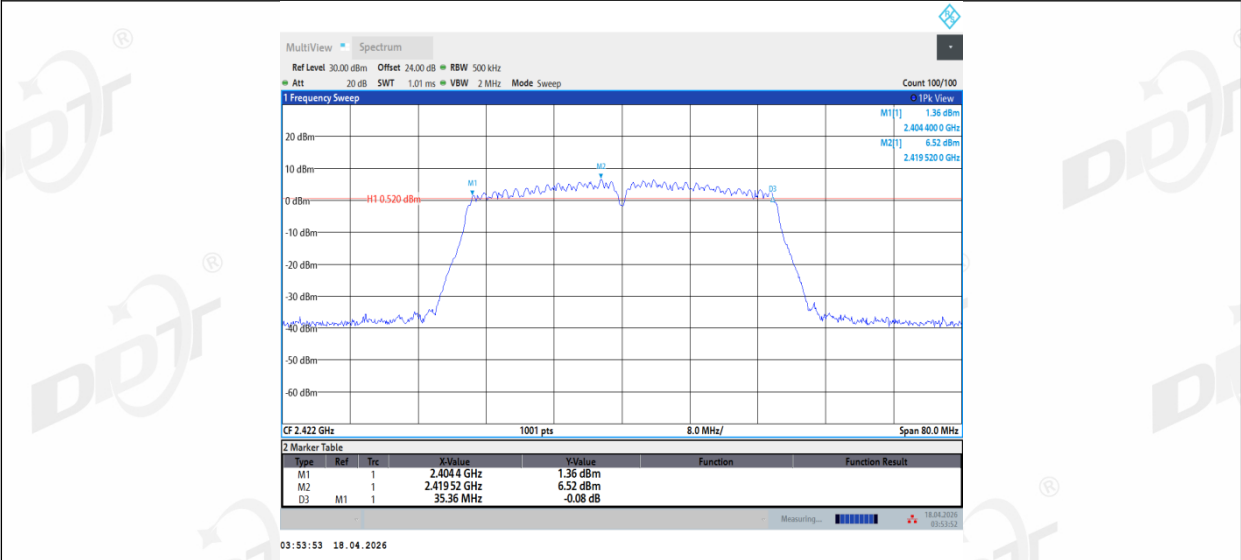
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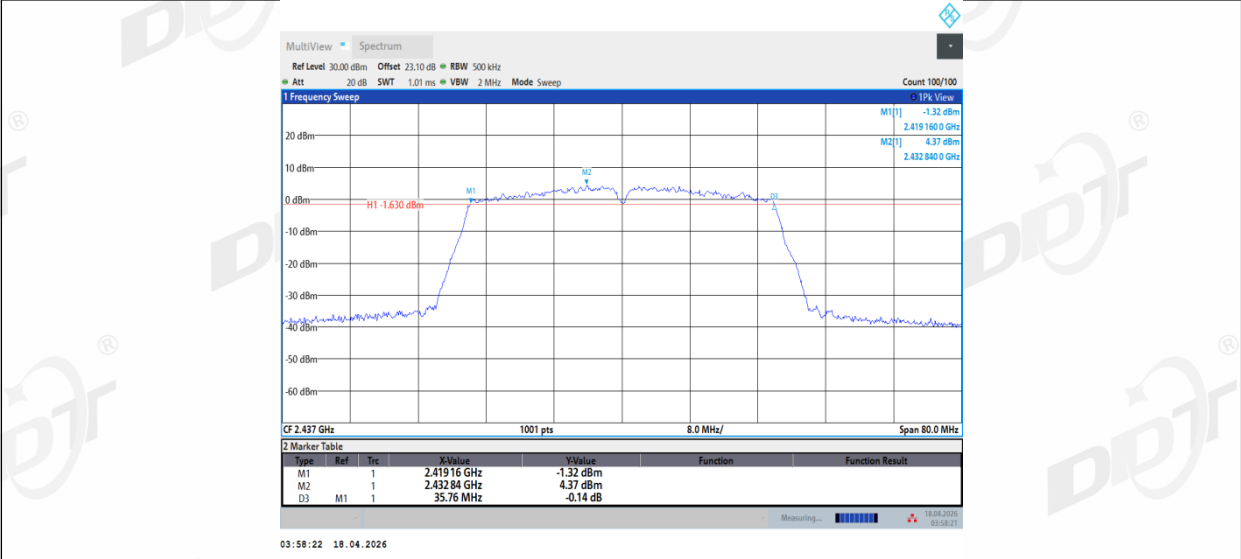
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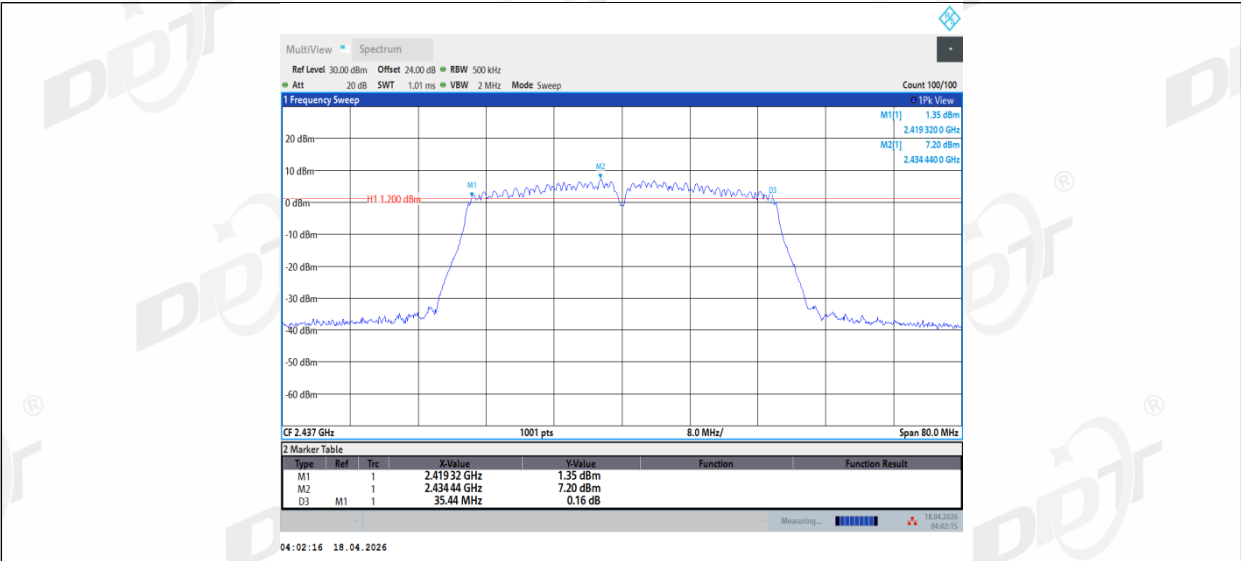
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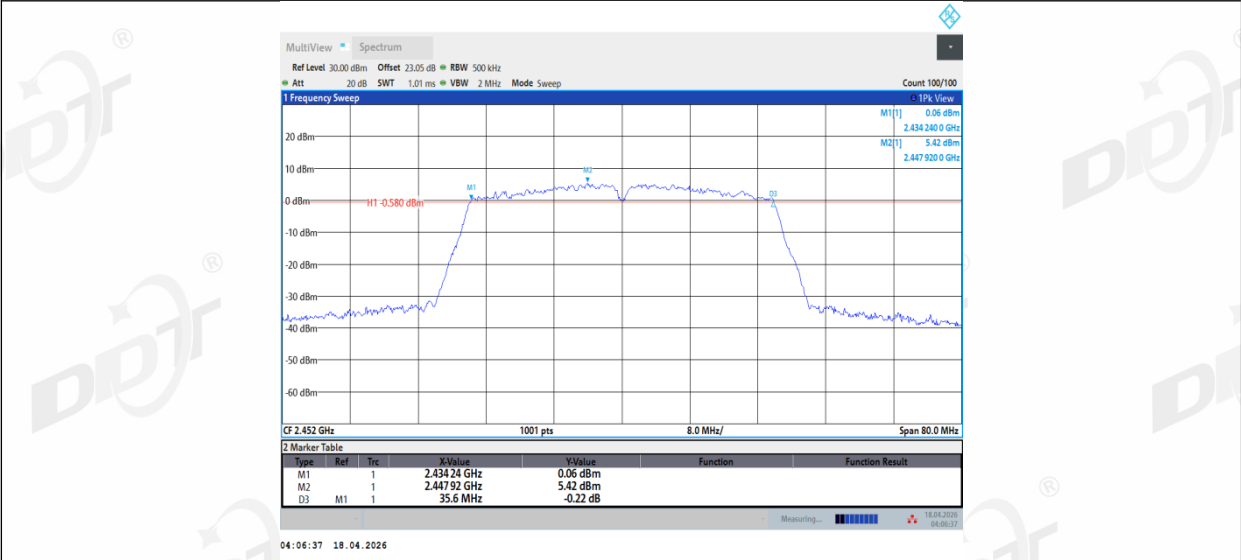
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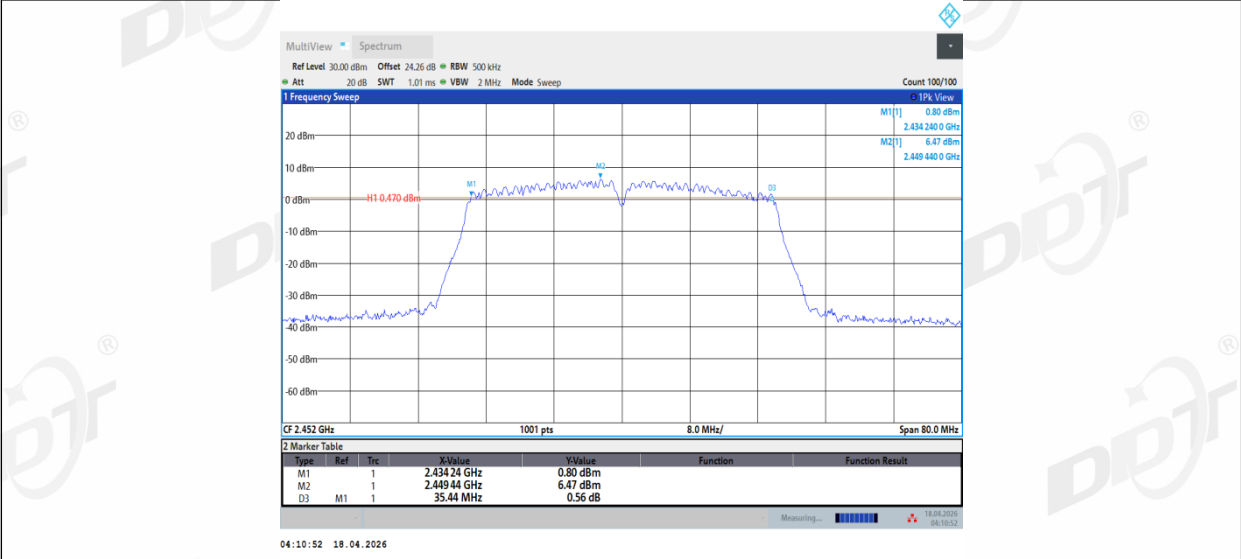
11N40MIMO_Ant2_2437



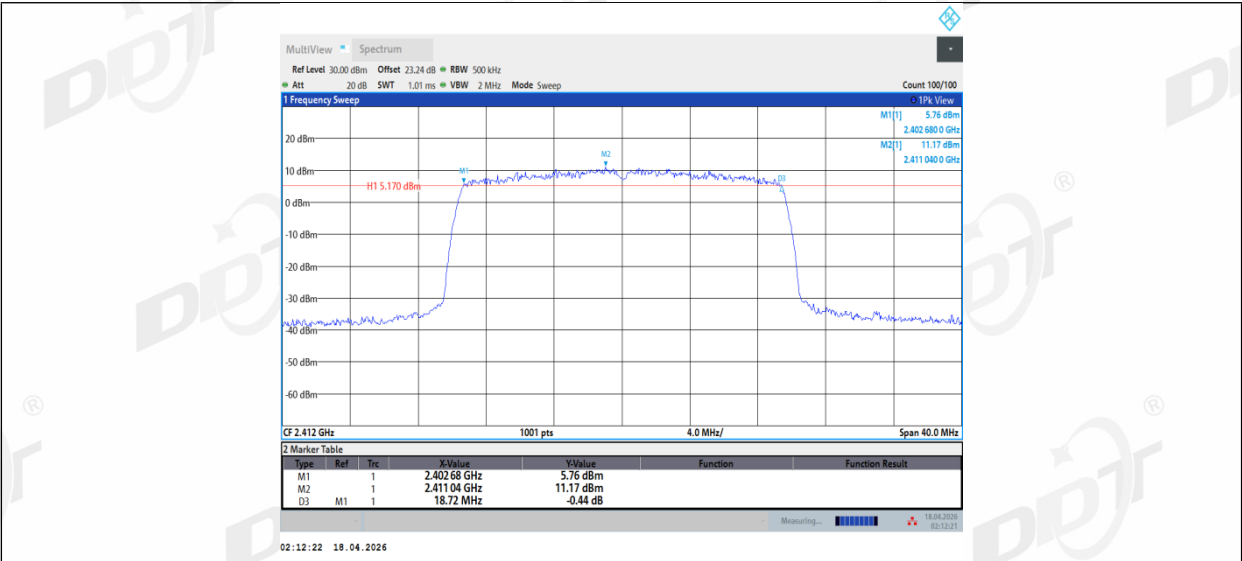
11N40MIMO_Ant1_2452



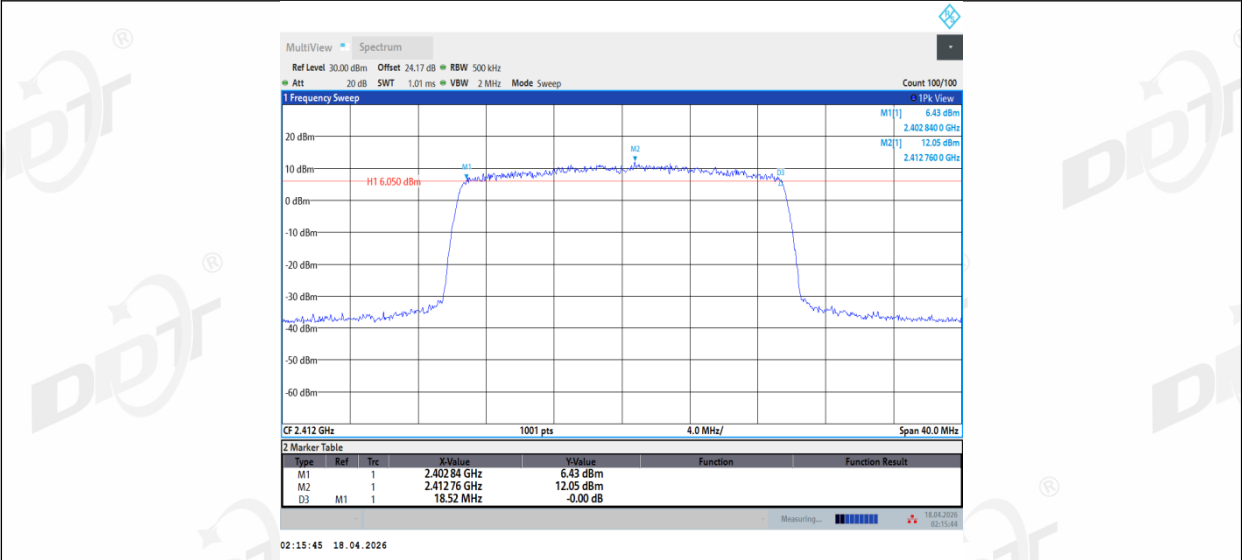
11N40MIMO_Ant2_2452



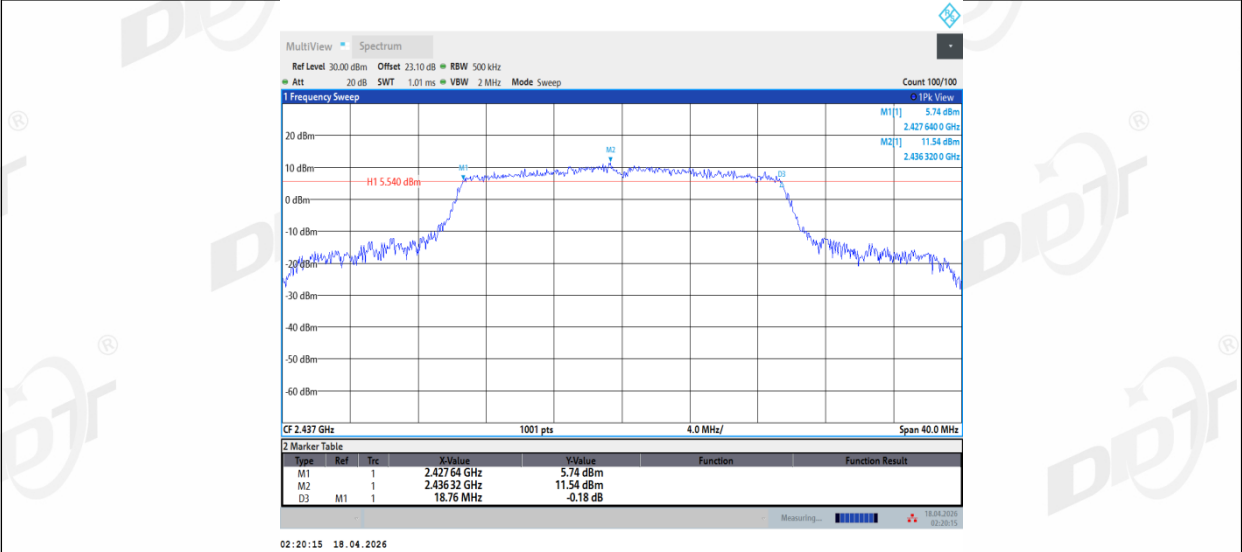
11AX20MIMO_Ant1_2412



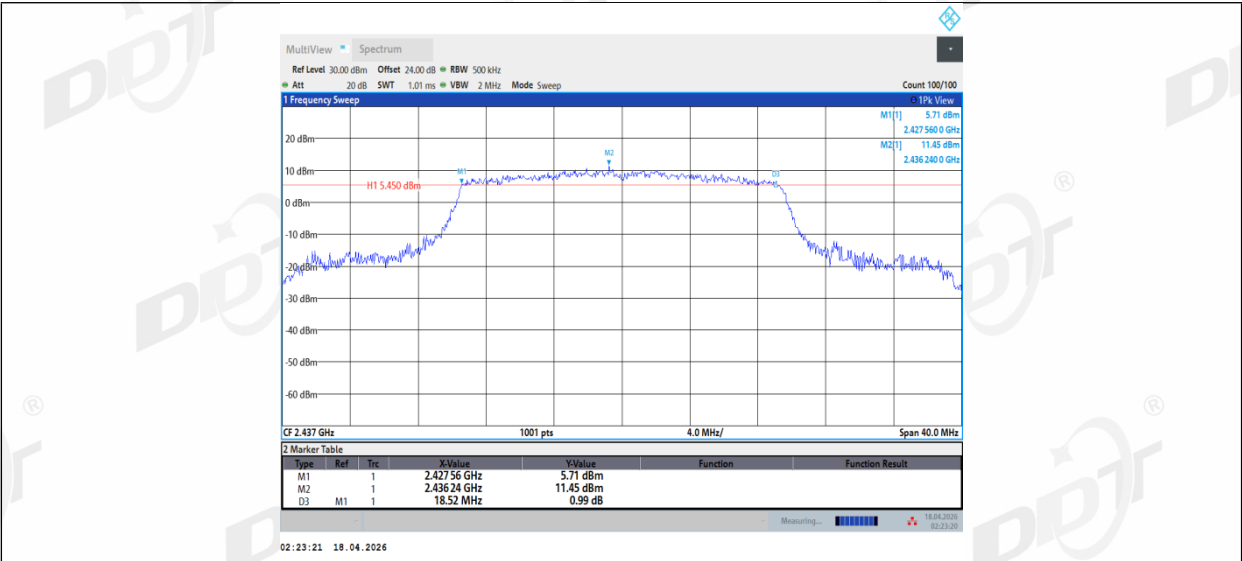
11AX20MIMO_Ant2_2412



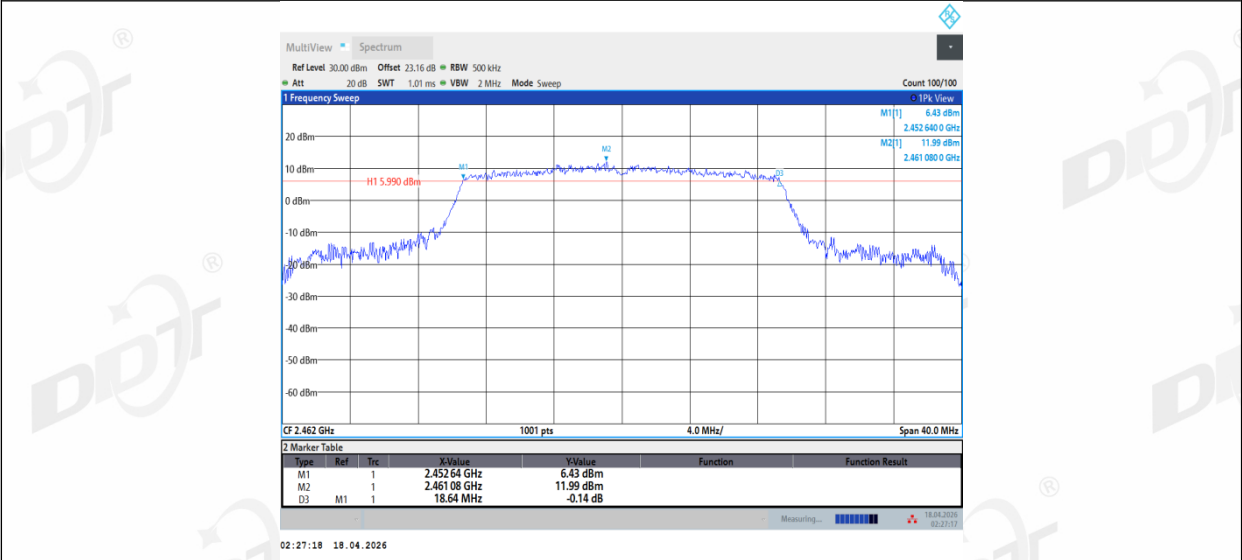
11AX20MIMO_Ant1_2437



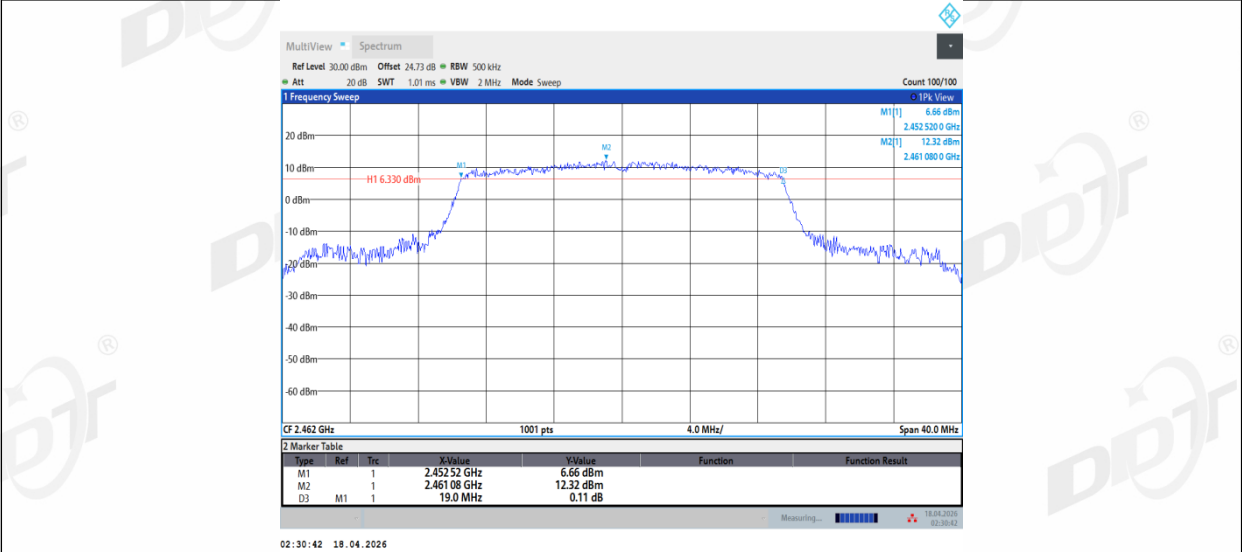
11AX20MIMO_Ant2_2437



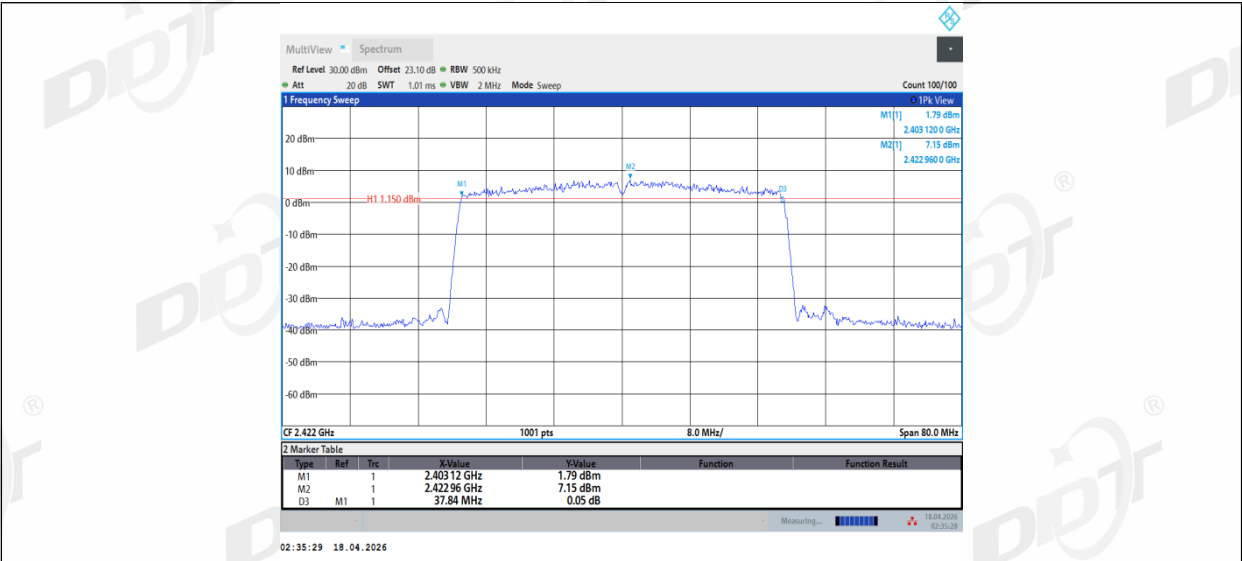
11AX20MIMO_Ant1_2462



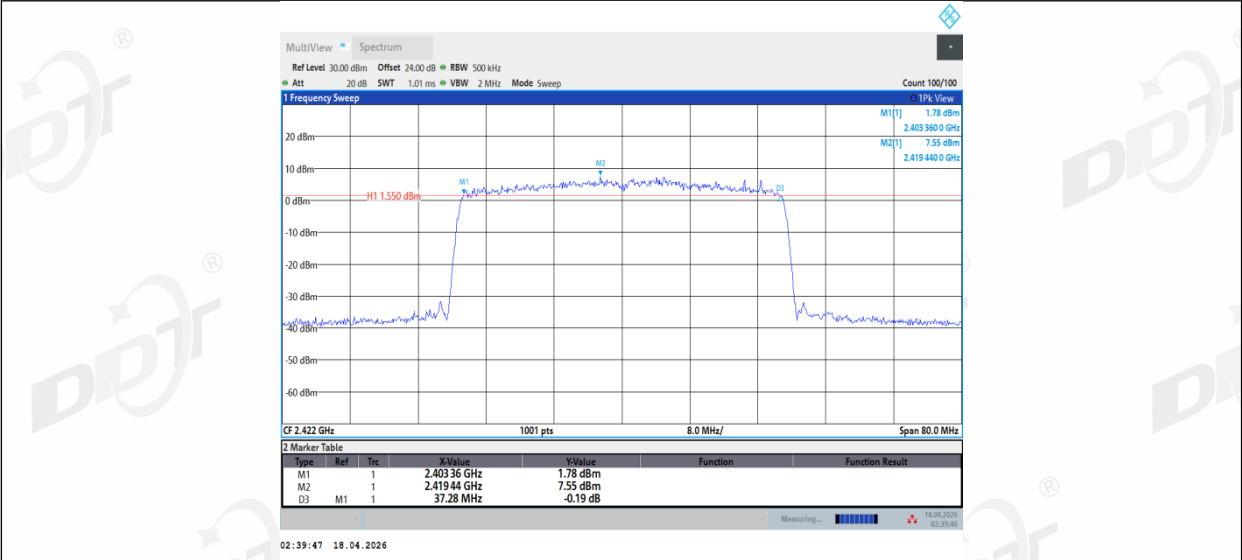
11AX20MIMO_Ant2_2462



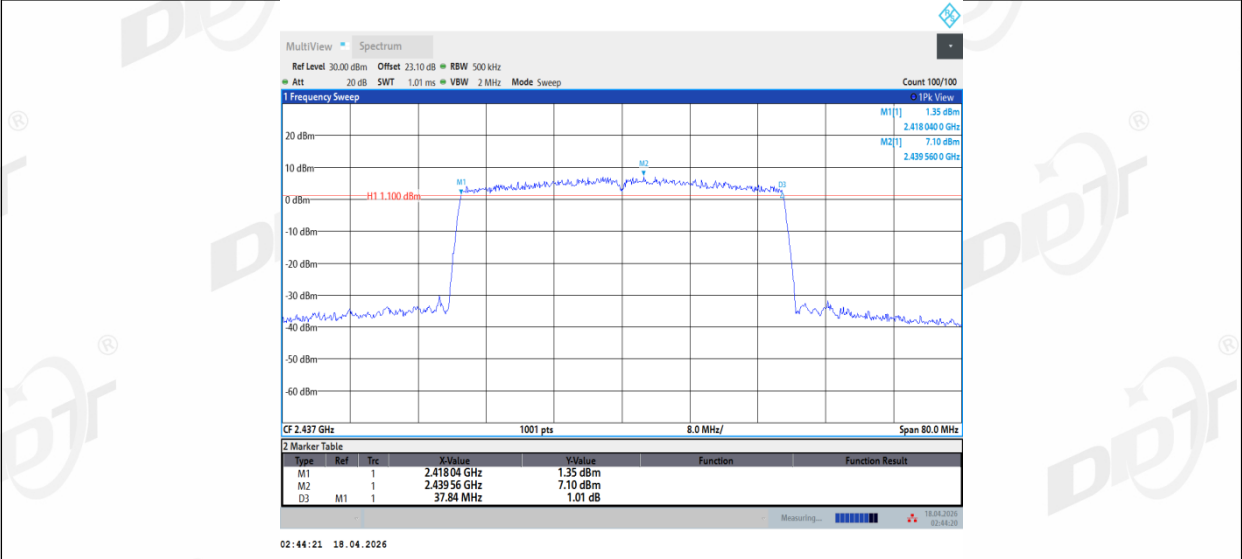
11AX40MIMO_Ant1_2422



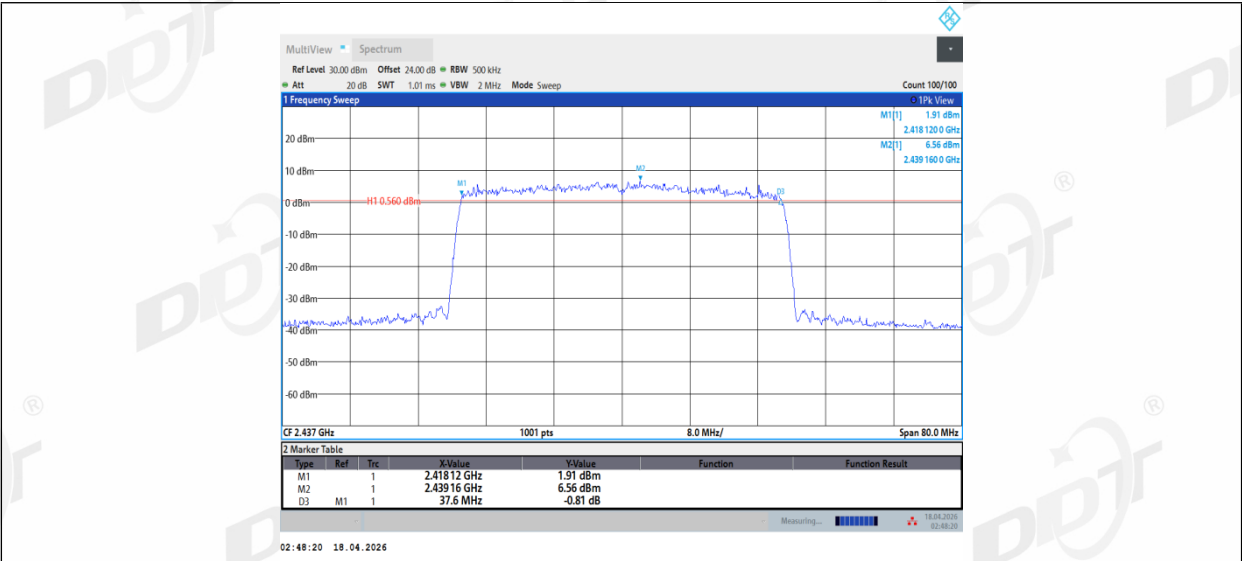
11AX40MIMO_Ant2_2422



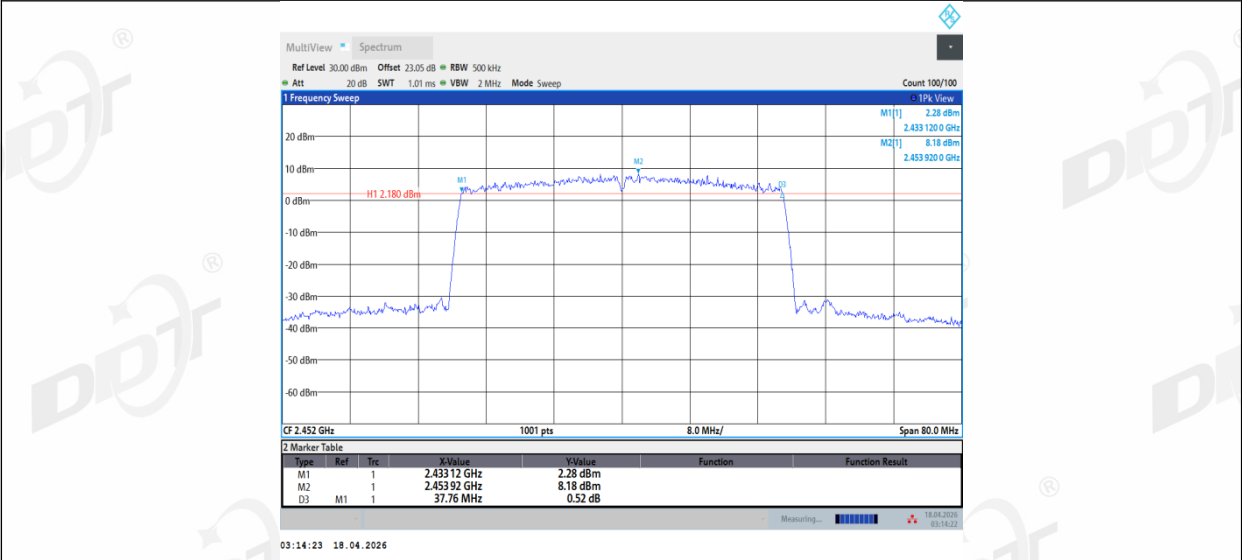
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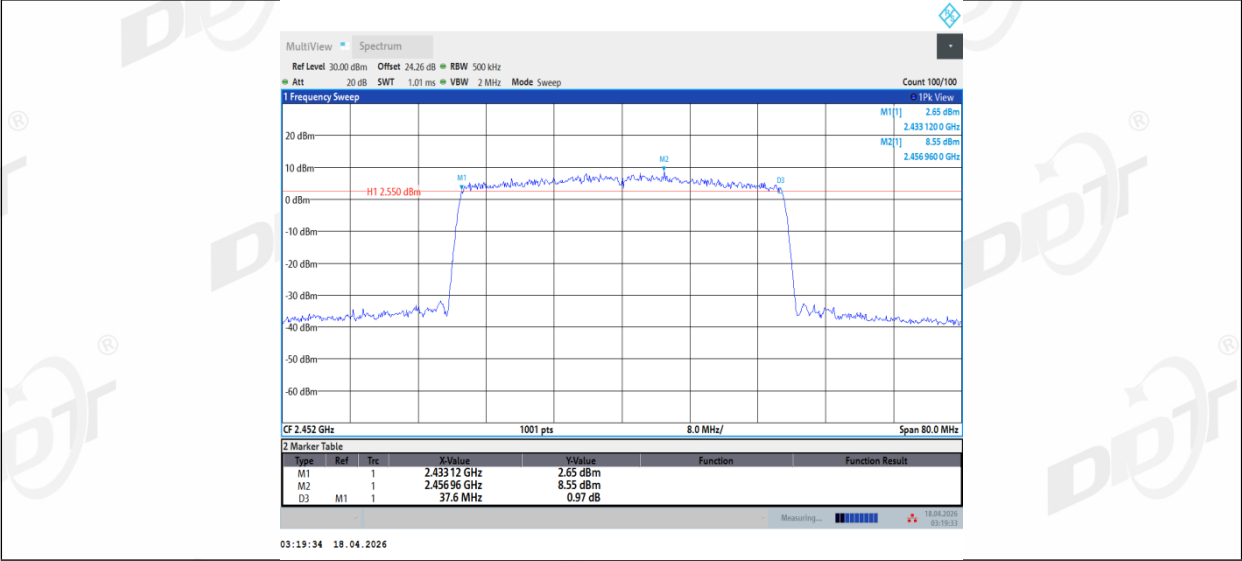
11AX40MIMO_Ant2_2437



11AX40MIMO_Ant1_2452

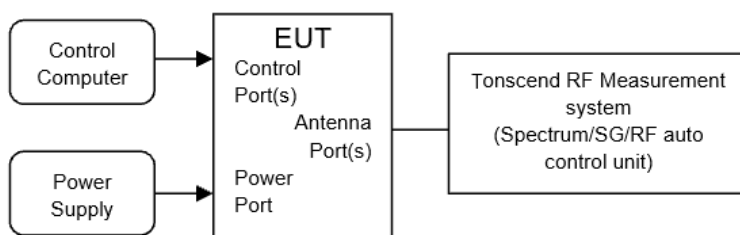


11AX40MIMO_Ant2_2452



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 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

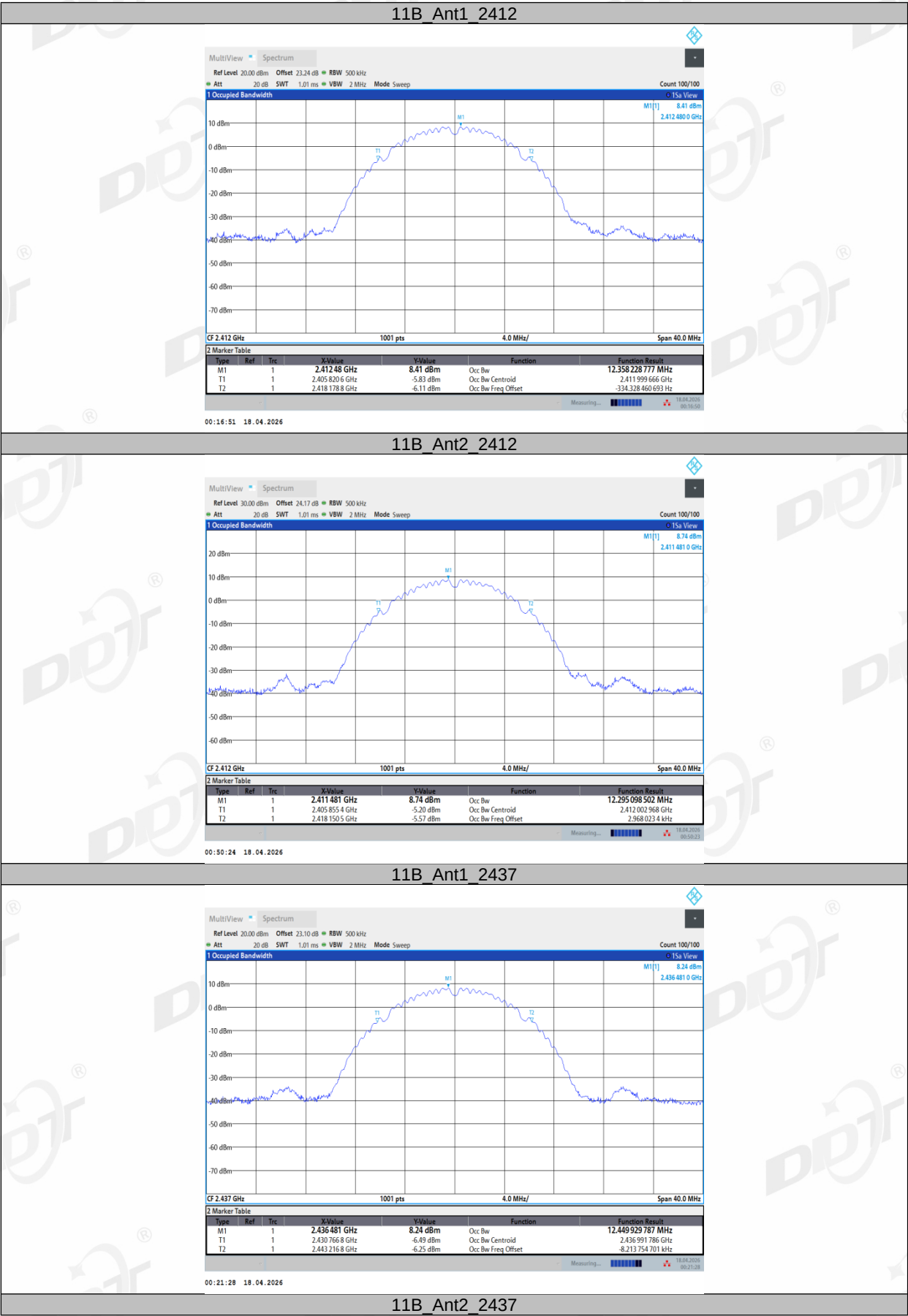
Allow the trace to stabilize, measure the 99% bandwidth of signal, and record the results in the report.

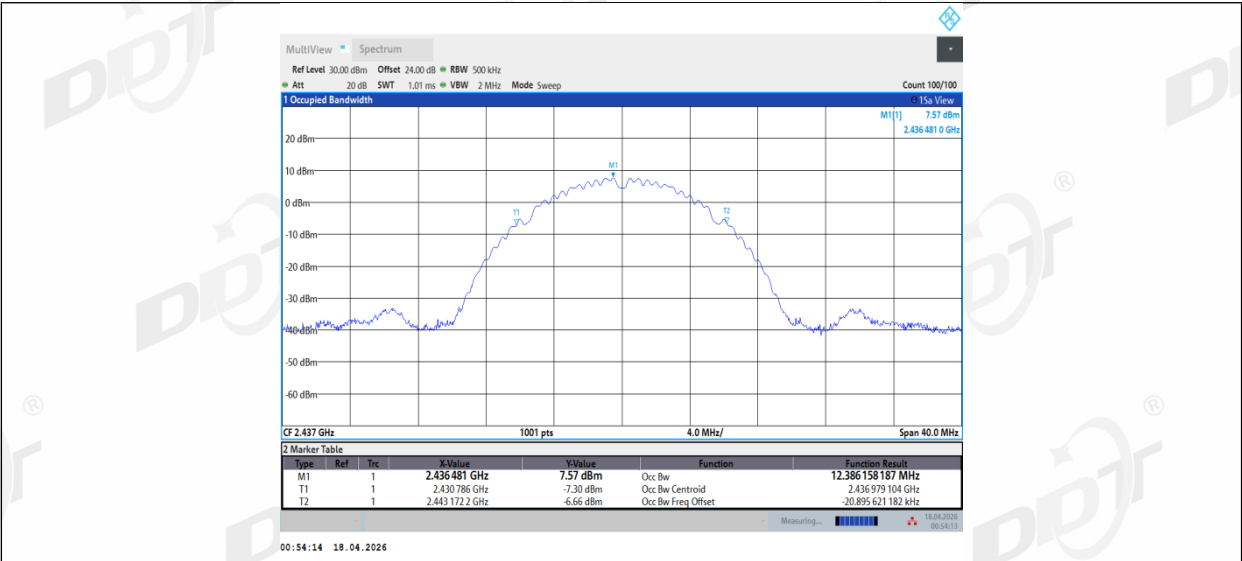
5.4. Test result

Test Engineer:	Lin Guoyuan	Test Site:	RF Measurement System 4#
Ambient Condition:	26.1-27.5℃,36.5-42.1%RH	Test Date:	2026.03.24-2026.04.18
Test Power Supply:	AC 100-240V,~50/60Hz	Sample Number:	S26030303-003

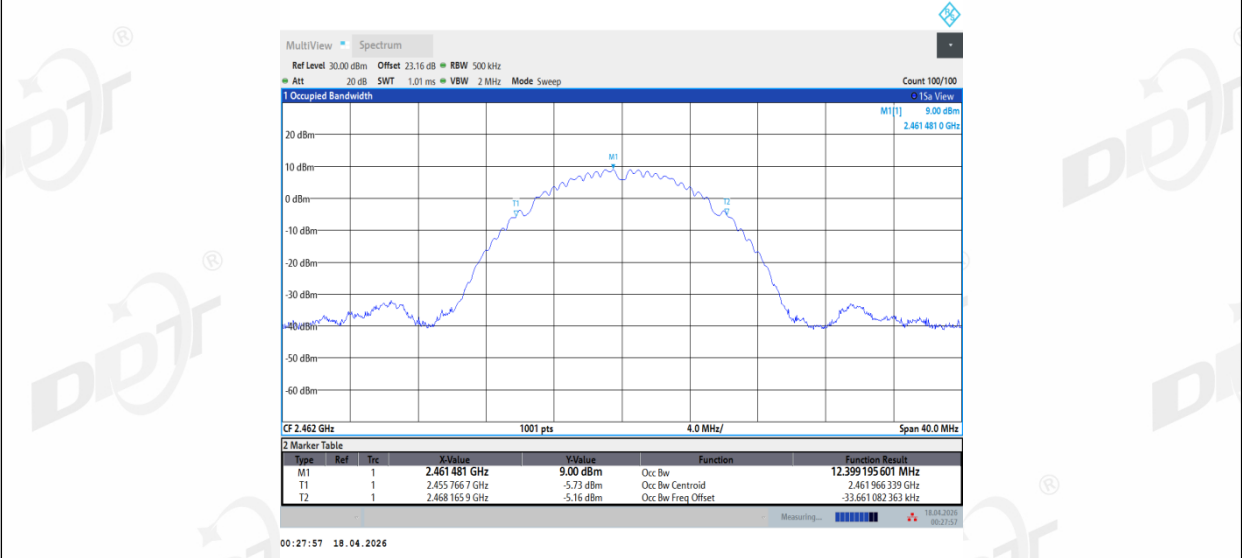
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.358	2405.8206	2418.1788	---	---
	Ant2	2412	12.295	2405.8554	2418.1505	---	---
	Ant1	2437	12.450	2430.7668	2443.2168	---	---
	Ant2	2437	12.386	2430.7860	2443.1722	---	---
	Ant1	2462	12.399	2455.7667	2468.1659	---	---
	Ant2	2462	12.361	2455.8118	2468.1731	---	---
11G	Ant1	2412	17.068	2403.4173	2420.4851	---	---
	Ant2	2412	17.063	2403.4170	2420.4801	---	---
	Ant1	2437	18.997	2427.3873	2446.3846	---	---
	Ant2	2437	18.973	2427.4169	2446.3897	---	---
	Ant1	2462	18.956	2452.3218	2471.2778	---	---
	Ant2	2462	18.963	2452.4088	2471.3717	---	---
11N20MIMO	Ant1	2412	17.877	2403.0272	2420.9039	---	---
	Ant2	2412	17.658	2403.1416	2420.7999	---	---
	Ant1	2437	19.909	2426.9889	2446.8979	---	---
	Ant2	2437	18.495	2427.6031	2446.0985	---	---
	Ant1	2462	19.907	2451.9283	2471.8349	---	---
	Ant2	2462	18.451	2452.6532	2471.1040	---	---
11N40MIMO	Ant1	2422	36.203	2403.9119	2440.1148	---	---
	Ant2	2422	36.236	2403.9254	2440.1614	---	---
	Ant1	2437	36.176	2418.8976	2455.0736	---	---
	Ant2	2437	36.133	2418.8818	2455.0145	---	---
	Ant1	2452	36.117	2433.8937	2470.0111	---	---
	Ant2	2452	36.213	2433.7908	2470.0036	---	---
11AX20MIMO	Ant1	2412	18.838	2402.5600	2421.3976	---	---
	Ant2	2412	18.844	2402.5670	2421.4111	---	---
	Ant1	2437	19.289	2427.3323	2446.6218	---	---
	Ant2	2437	19.217	2427.3483	2446.5657	---	---
	Ant1	2462	19.249	2452.3186	2471.5674	---	---
	Ant2	2462	19.221	2452.3675	2471.5884	---	---
11AX40MIMO	Ant1	2422	37.794	2403.0930	2440.8870	---	---
	Ant2	2422	37.699	2403.1195	2440.8181	---	---
	Ant1	2437	37.769	2418.0807	2455.8495	---	---
	Ant2	2437	37.744	2418.0561	2455.8006	---	---
	Ant1	2452	37.659	2433.1488	2470.8077	---	---
	Ant2	2452	37.743	2433.0863	2470.8288	---	---

5.5. Test graphs

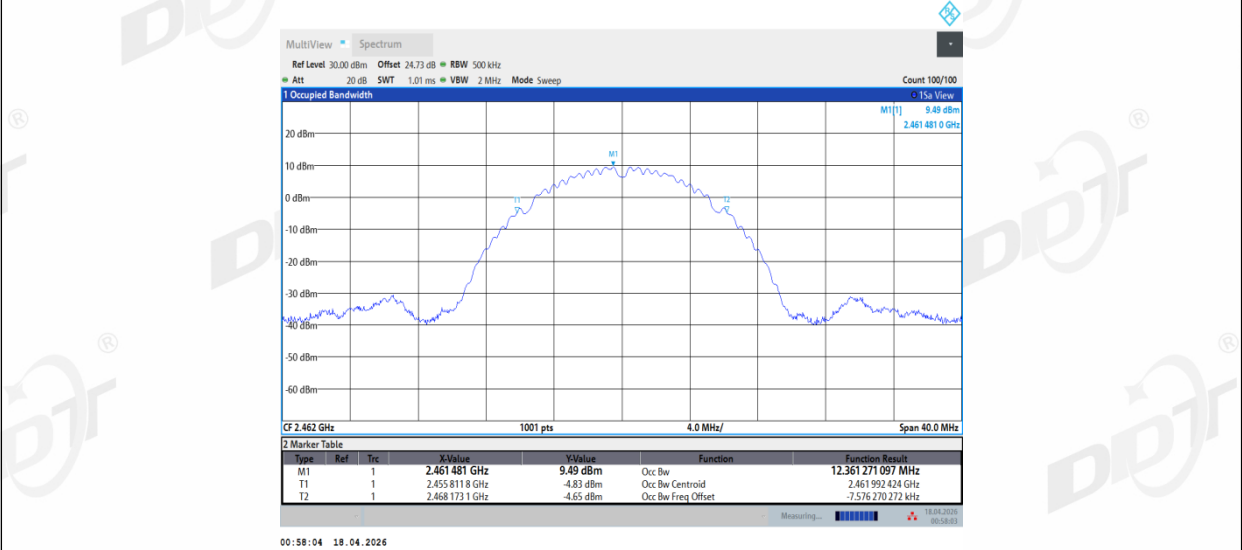




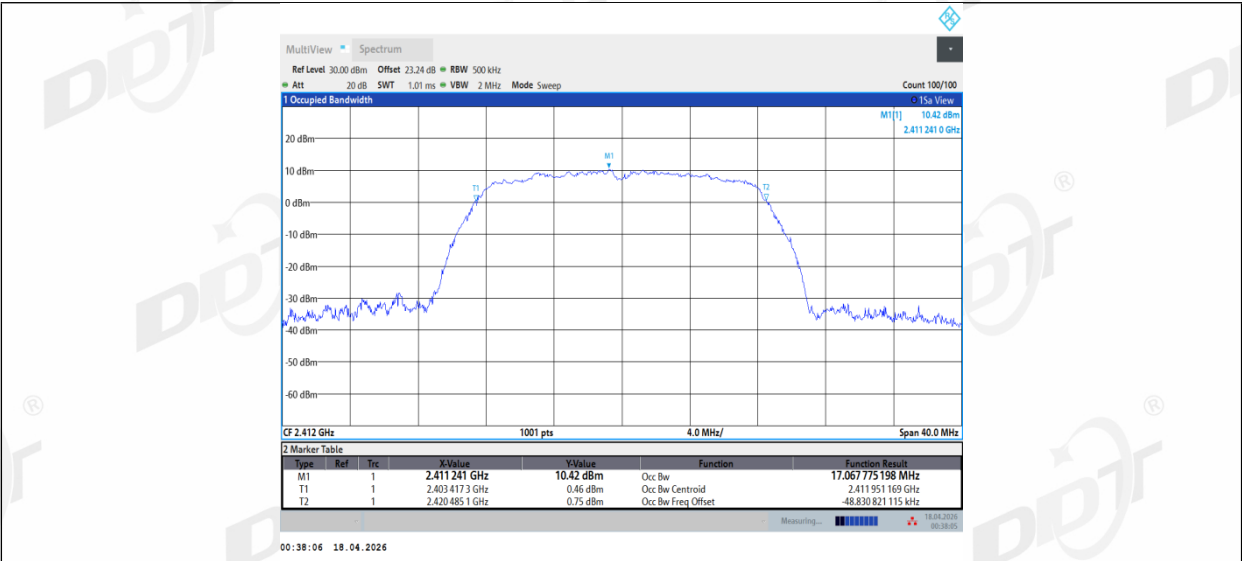
11B_Ant1_2462



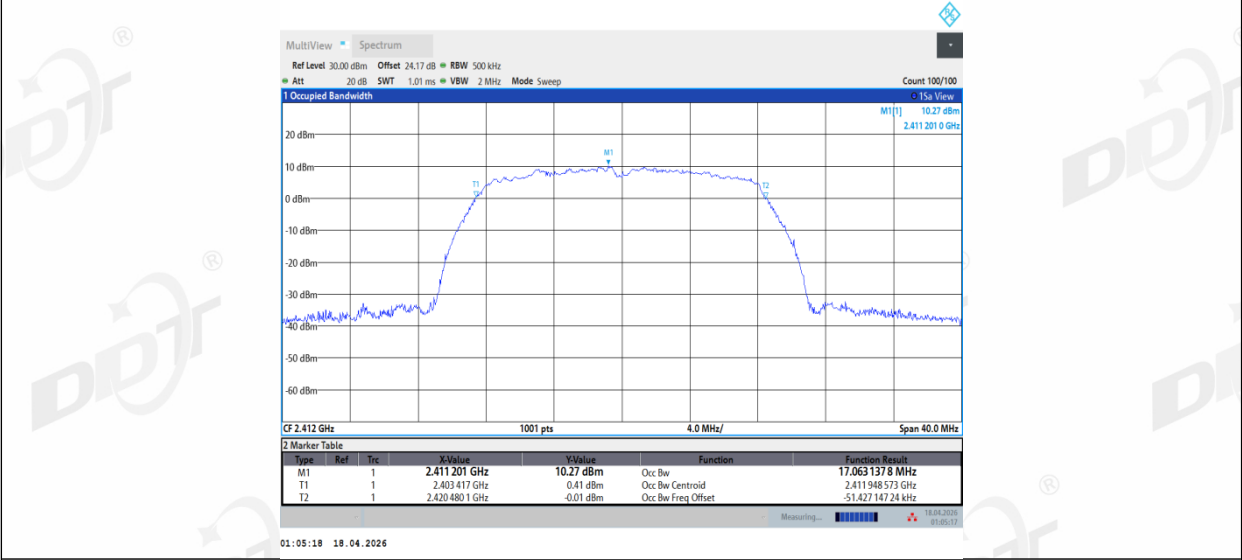
11B_Ant2_2462



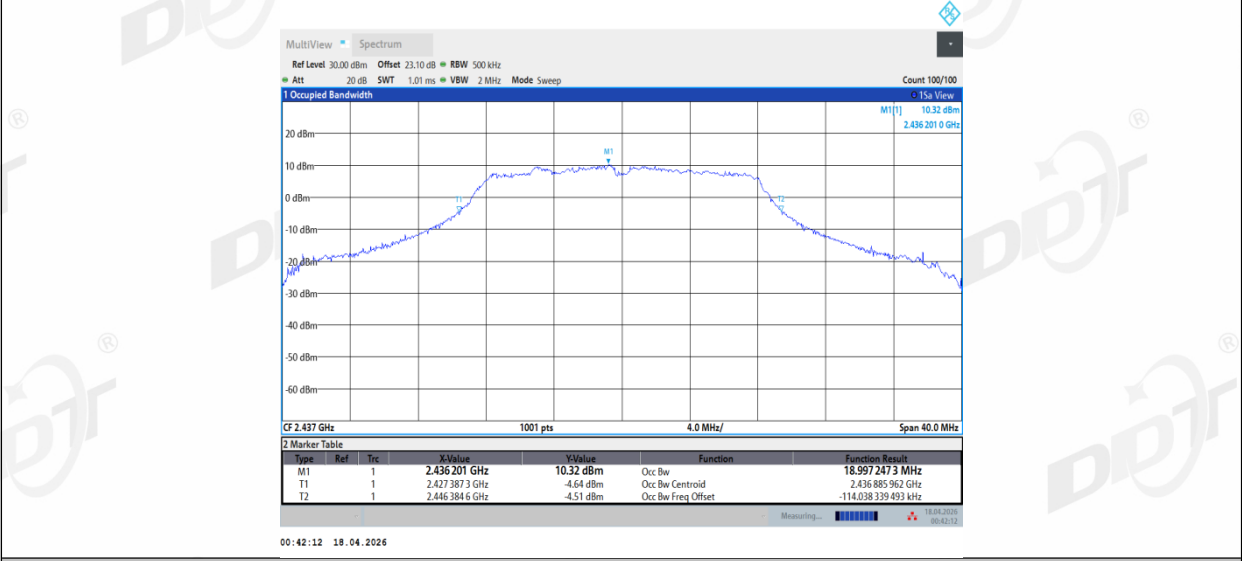
11G_Ant1_2412



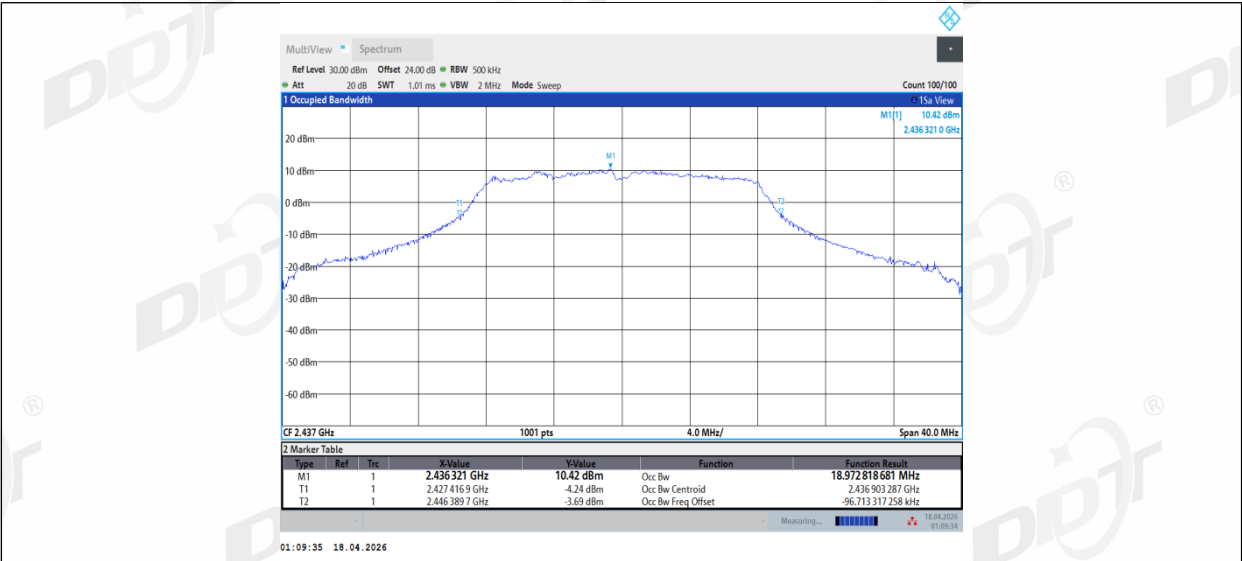
11G_Ant2_2412



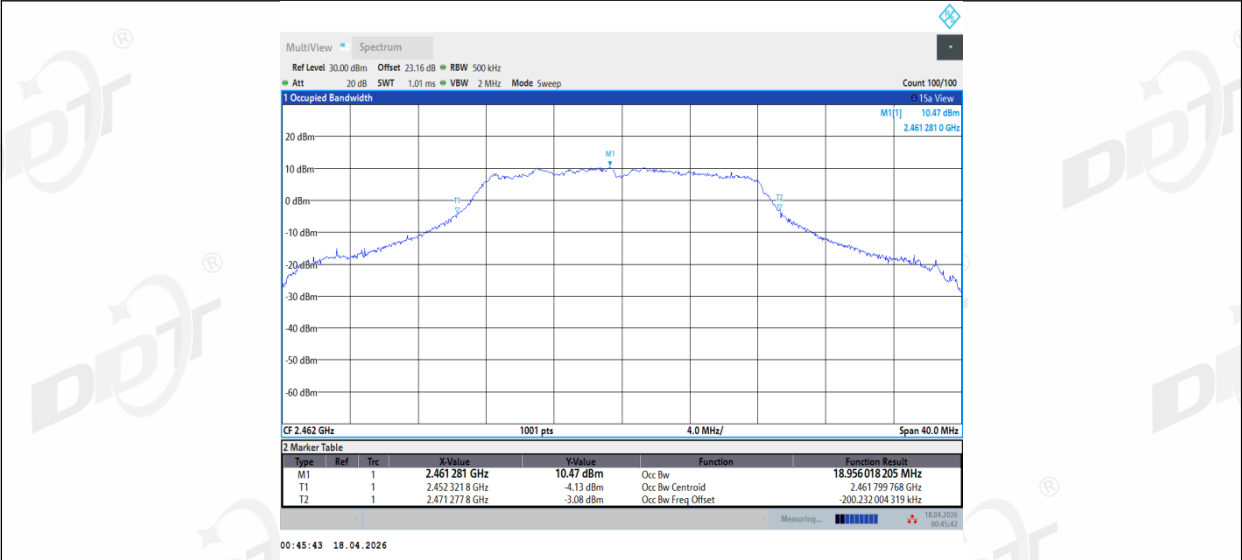
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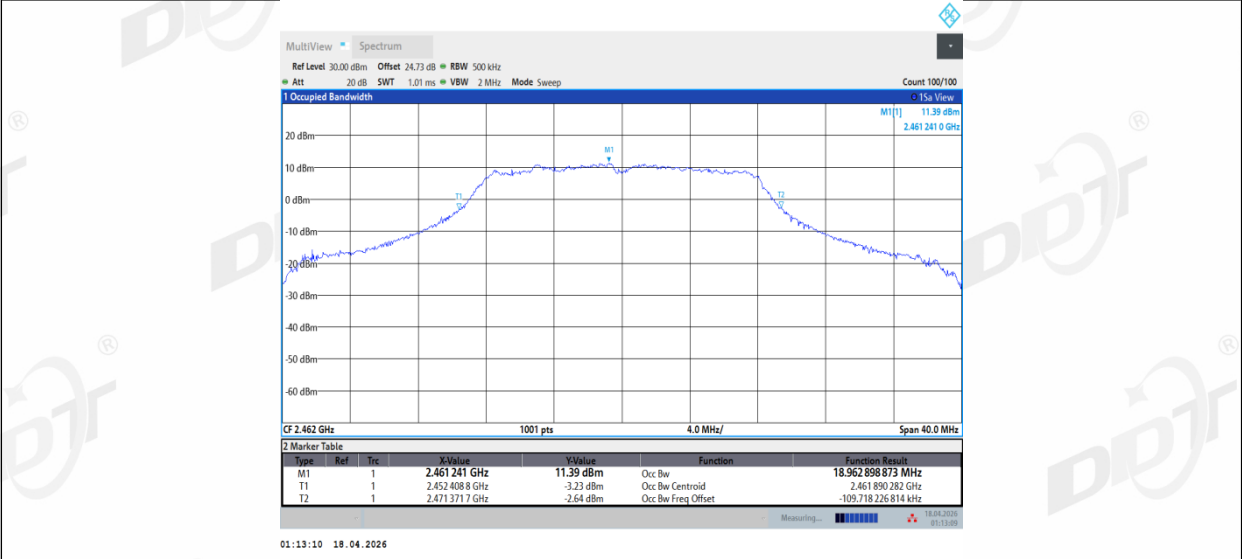
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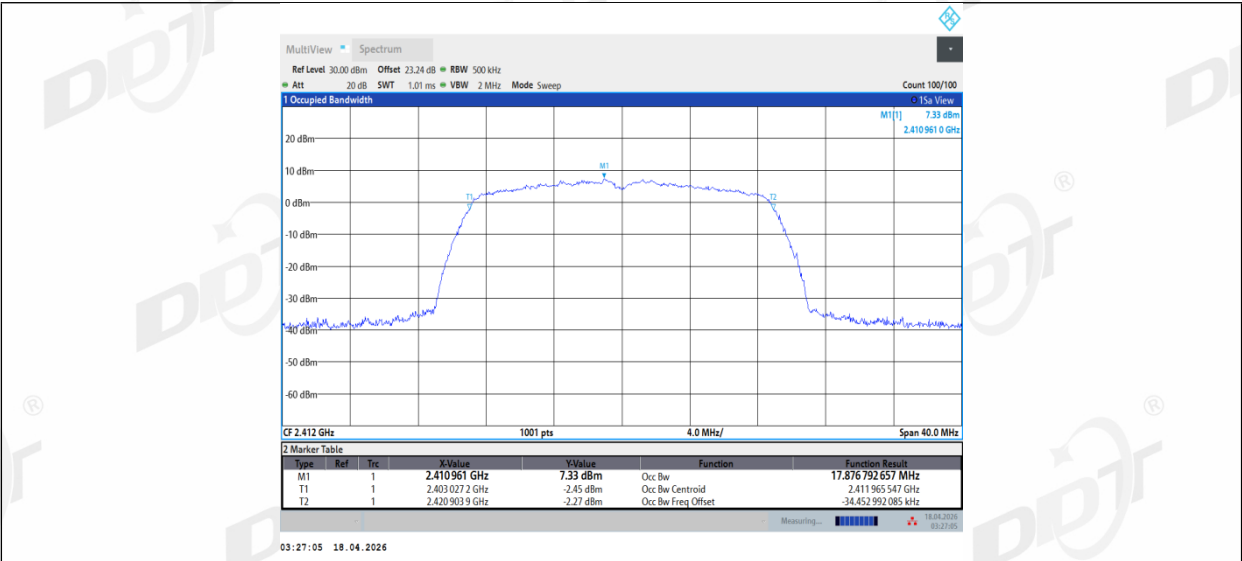
11G_Ant1_2462



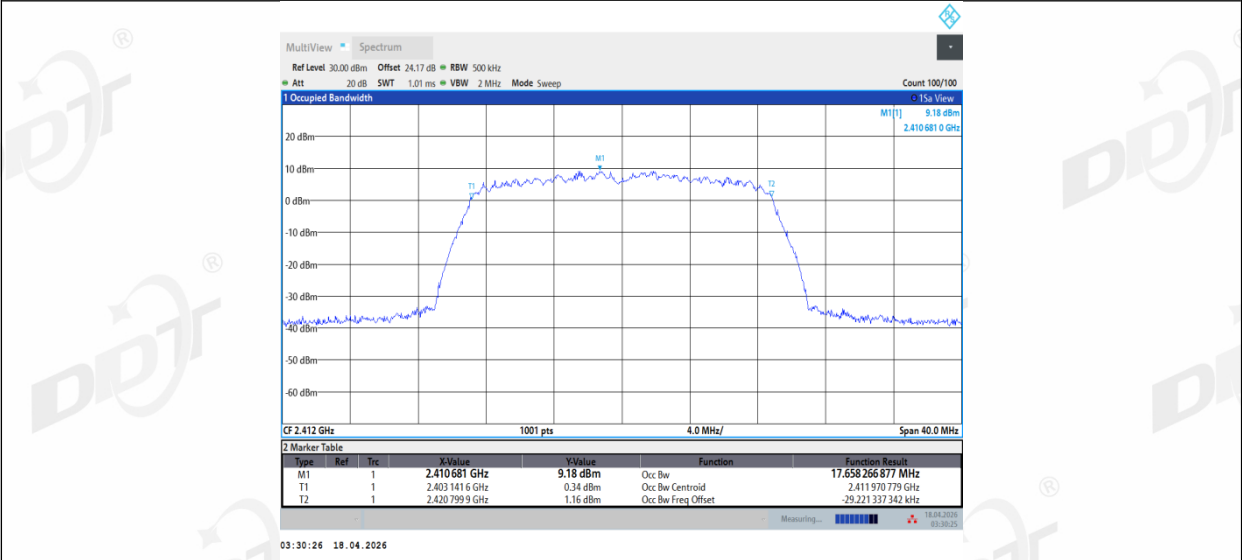
11G_Ant2_2462



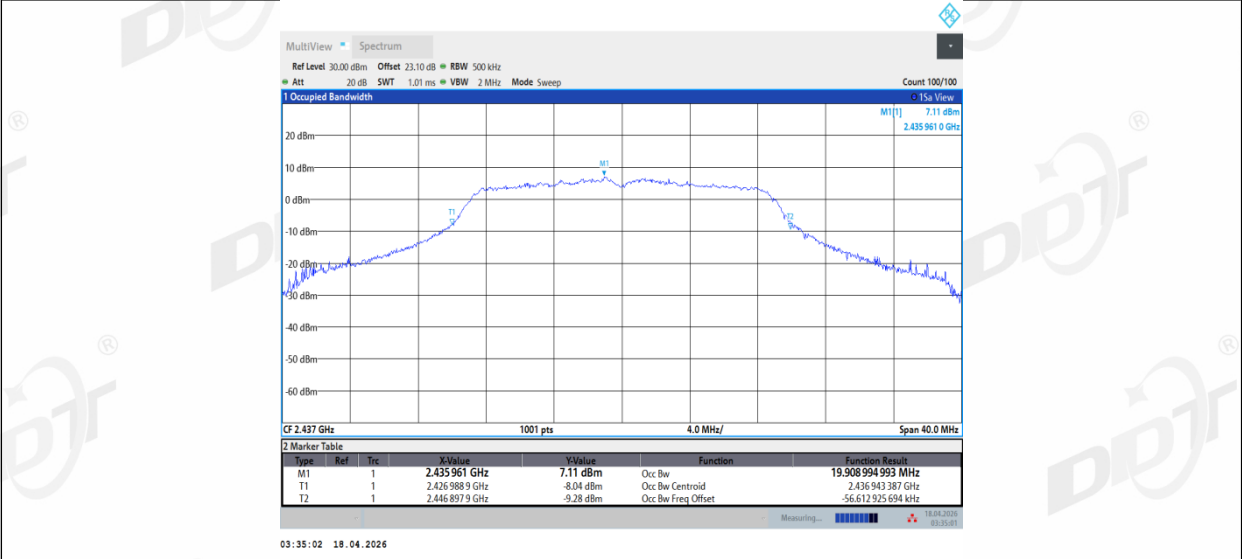
11N20MIMO_Ant1_2412



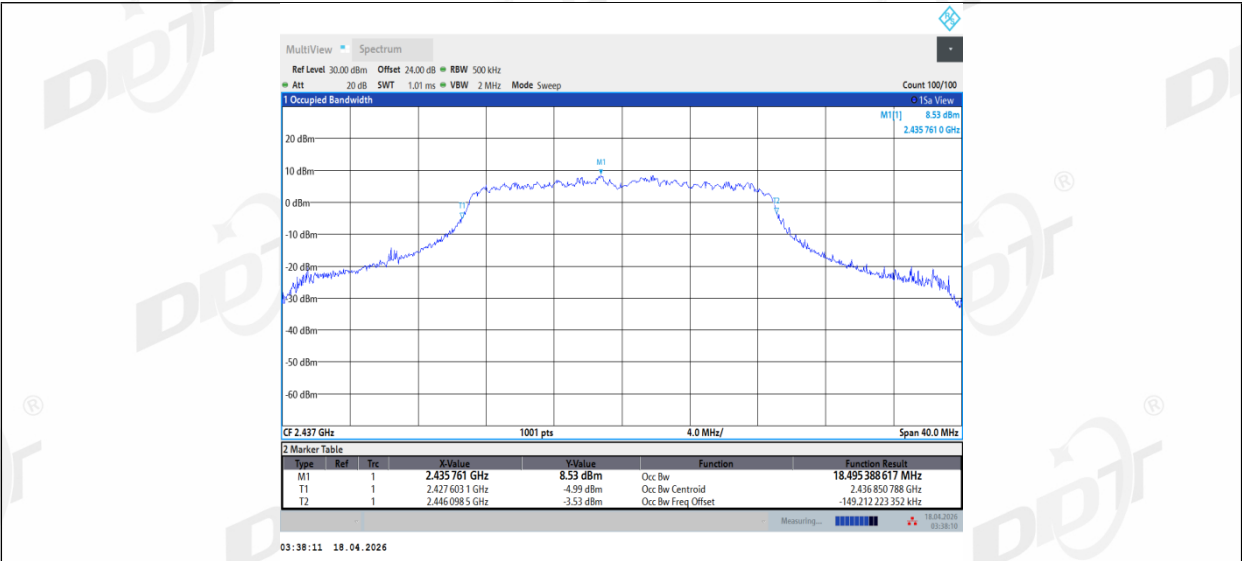
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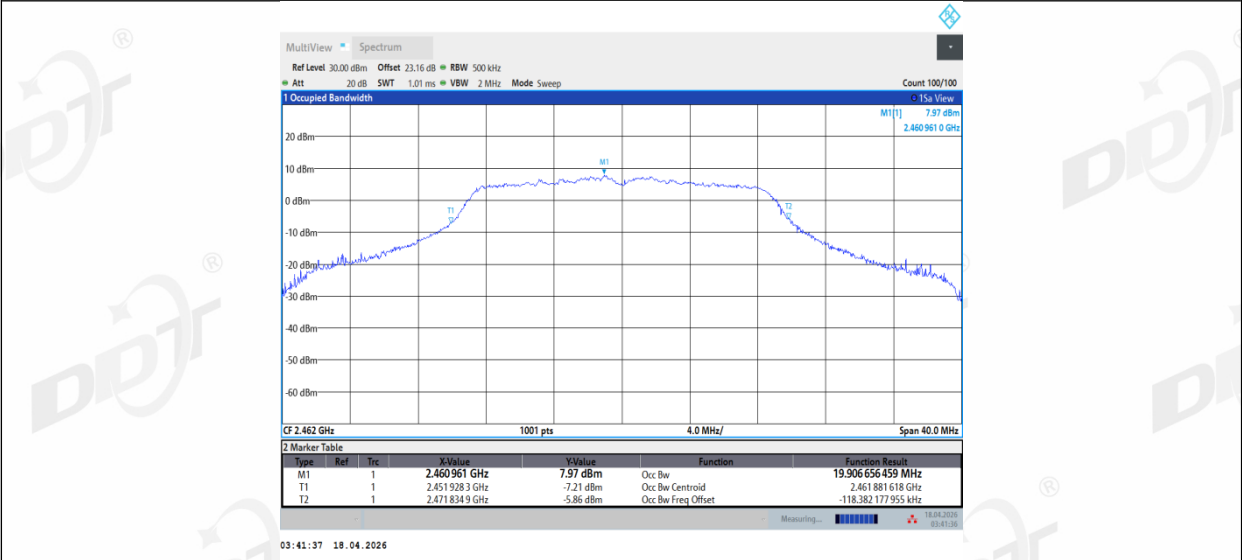
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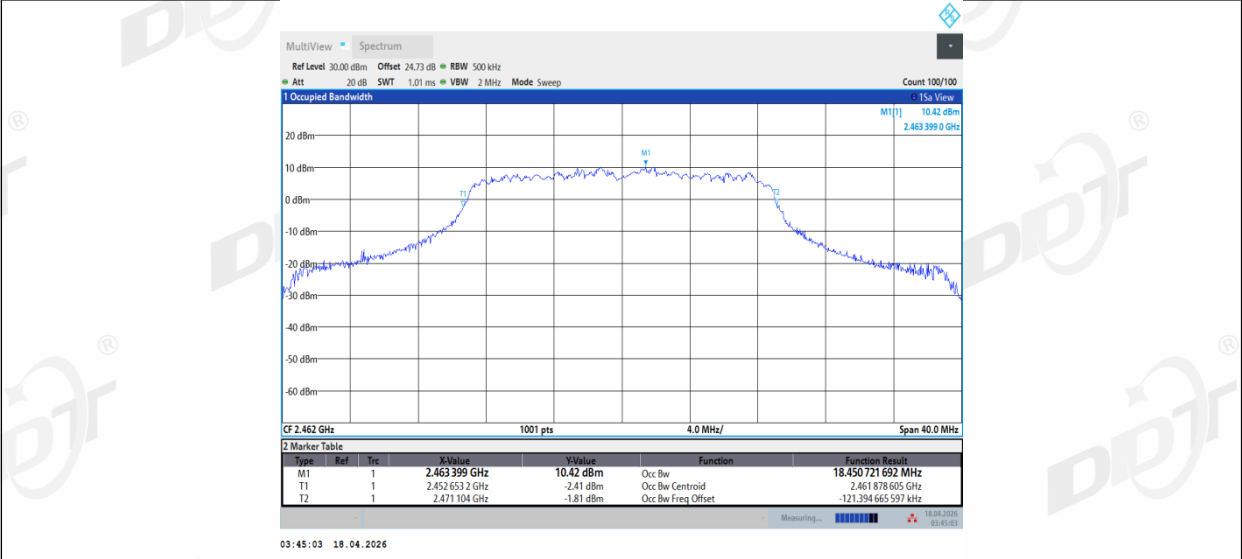
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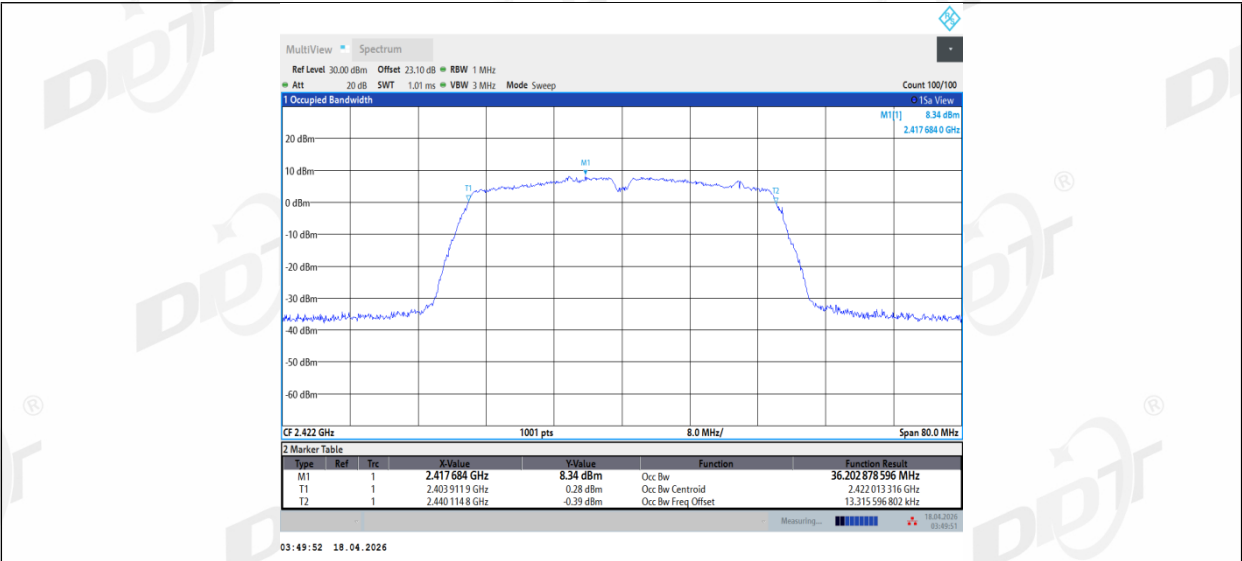
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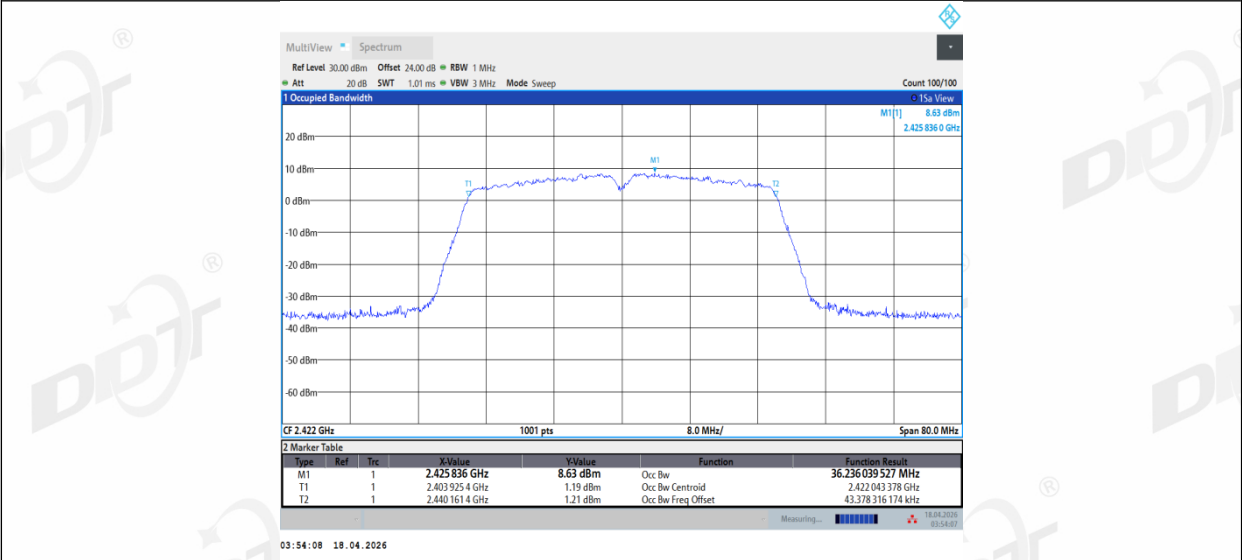
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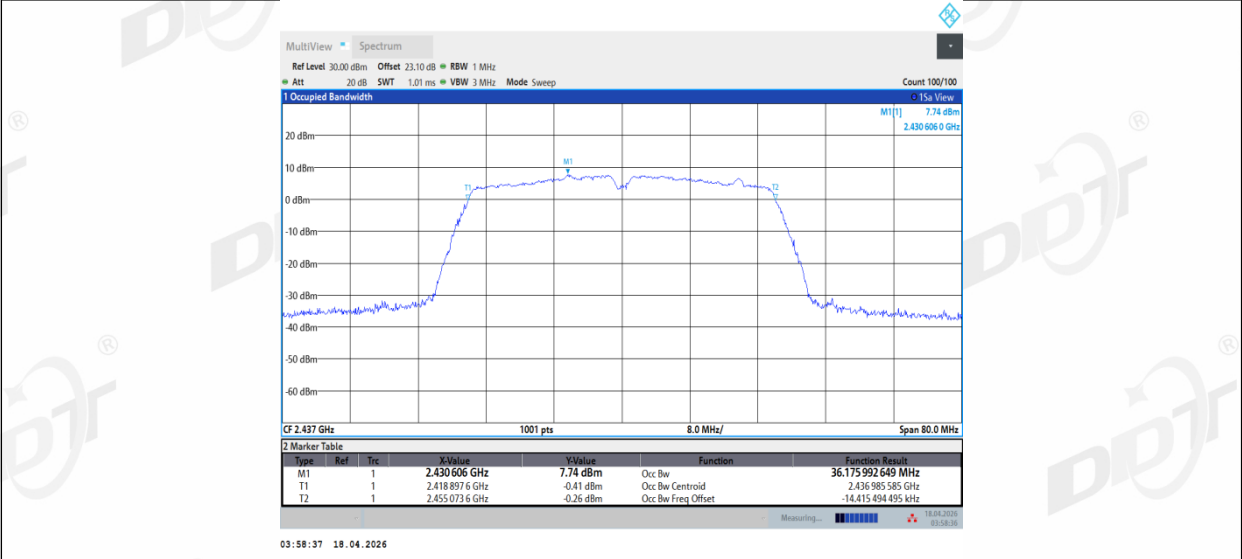
11N40MIMO_Ant1_2422



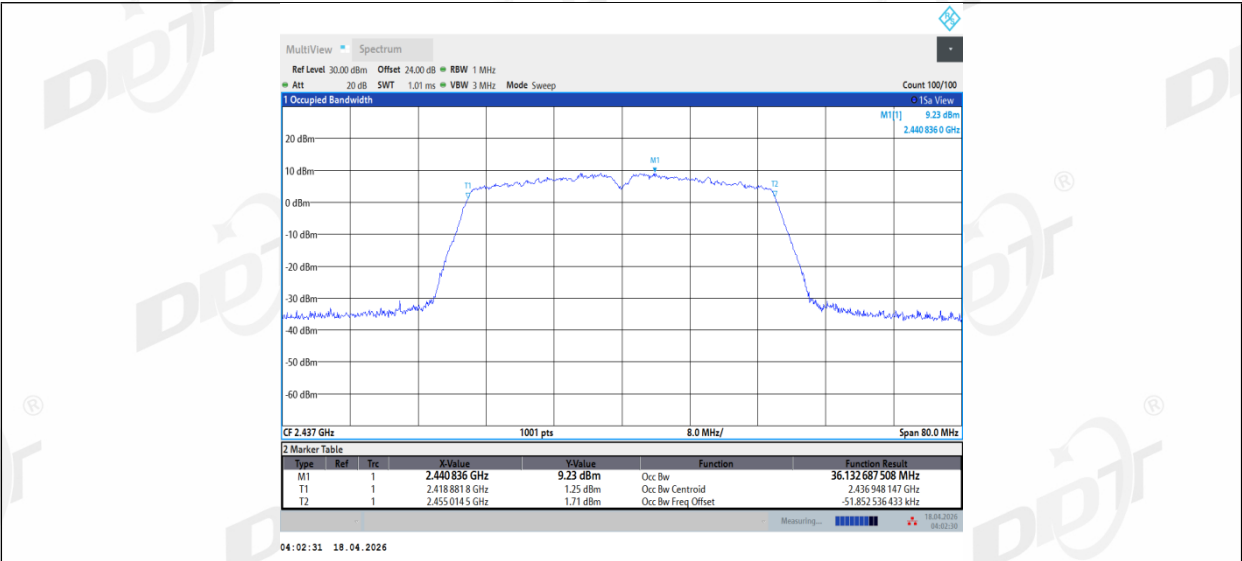
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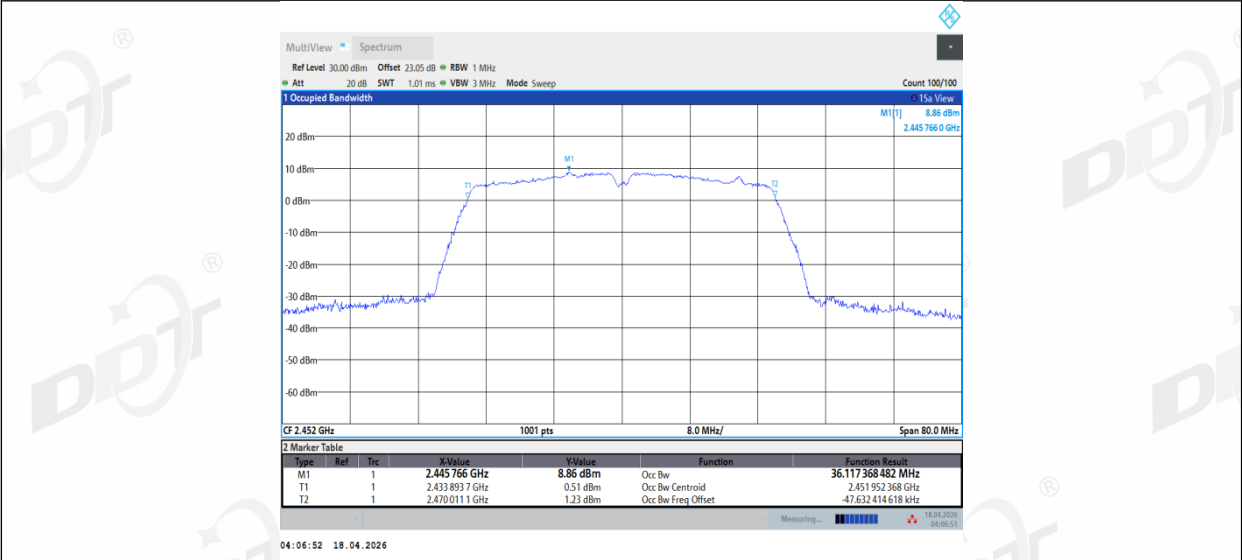
11N40MIMO_Ant1_2437



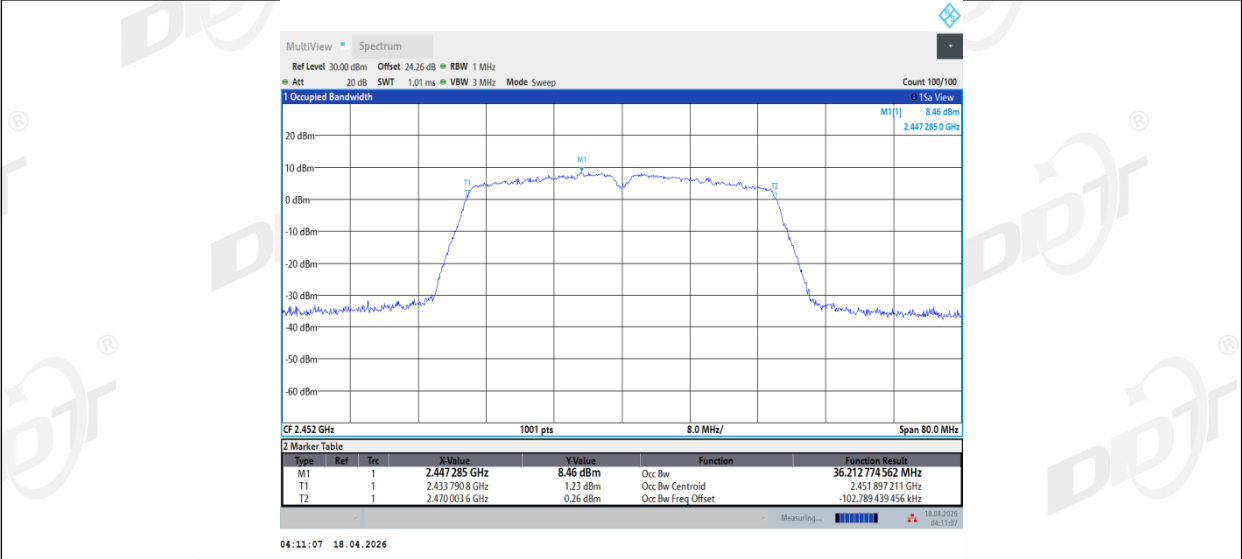
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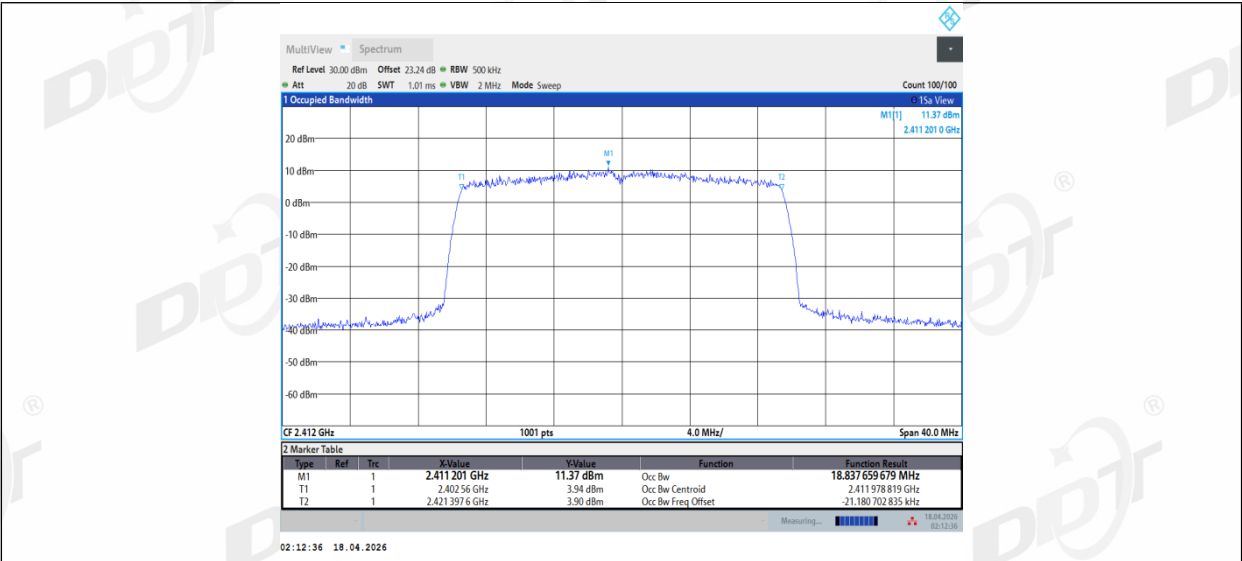
11N40MIMO_Ant1_2452



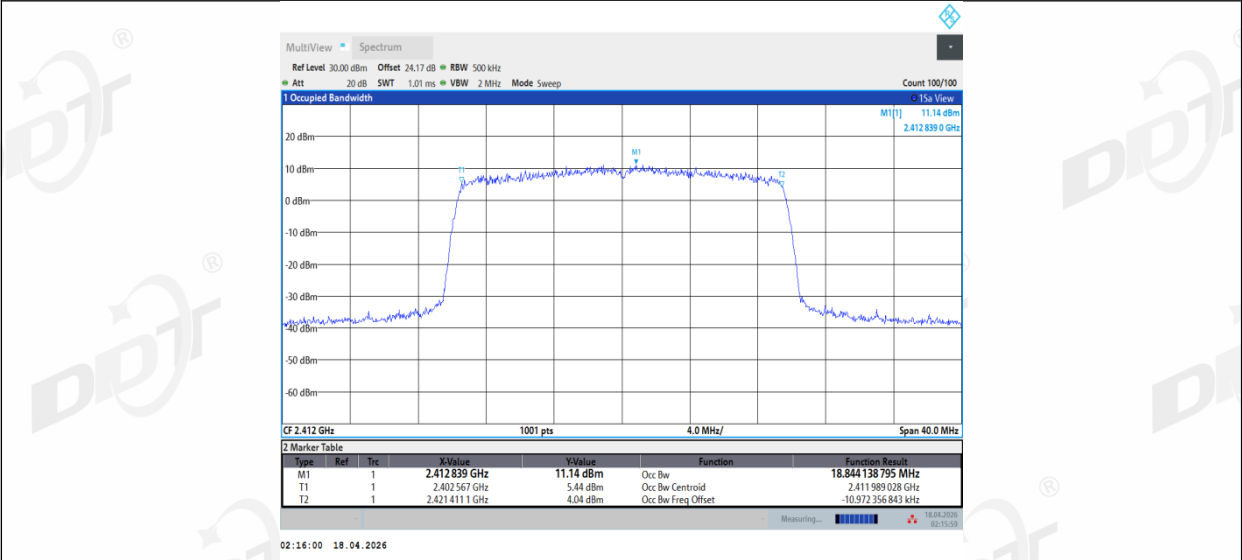
11N40MIMO_Ant2_2452



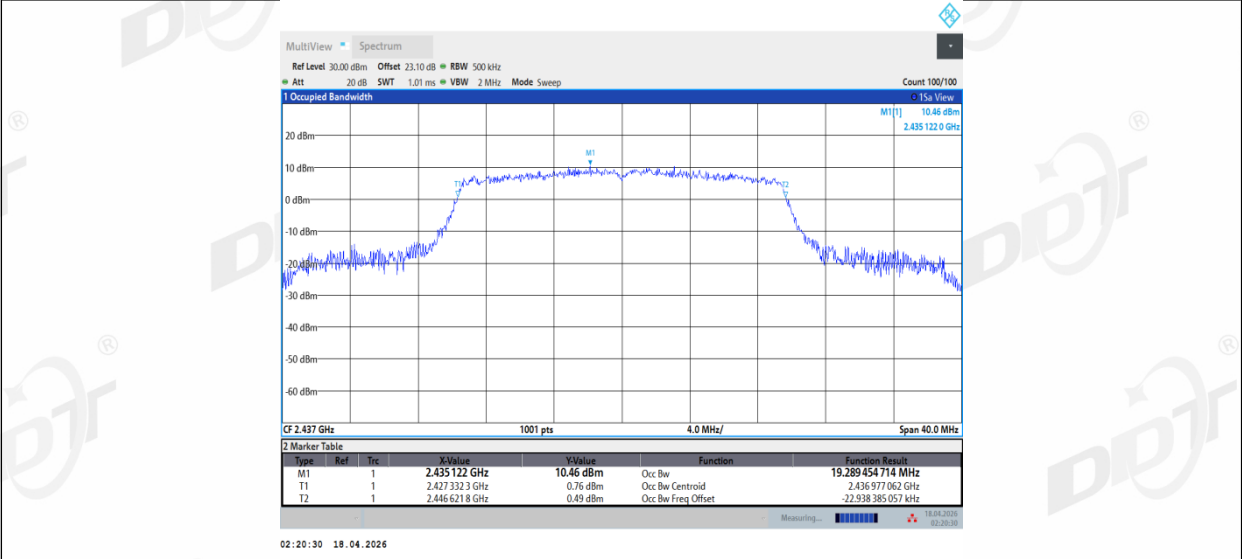
11AX20MIMO_Ant1_2412



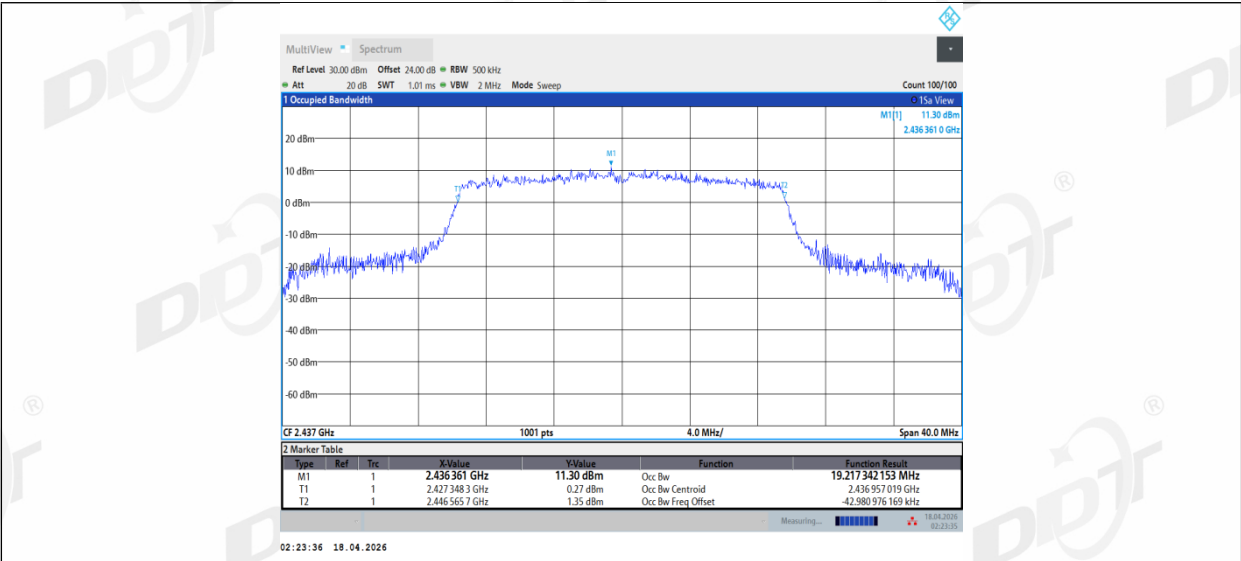
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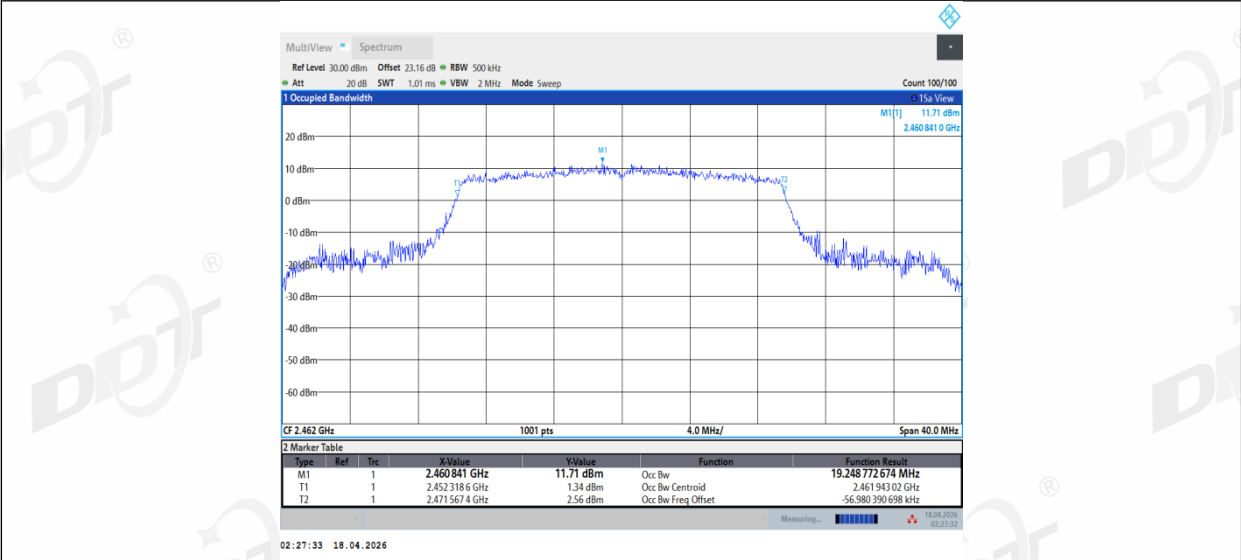
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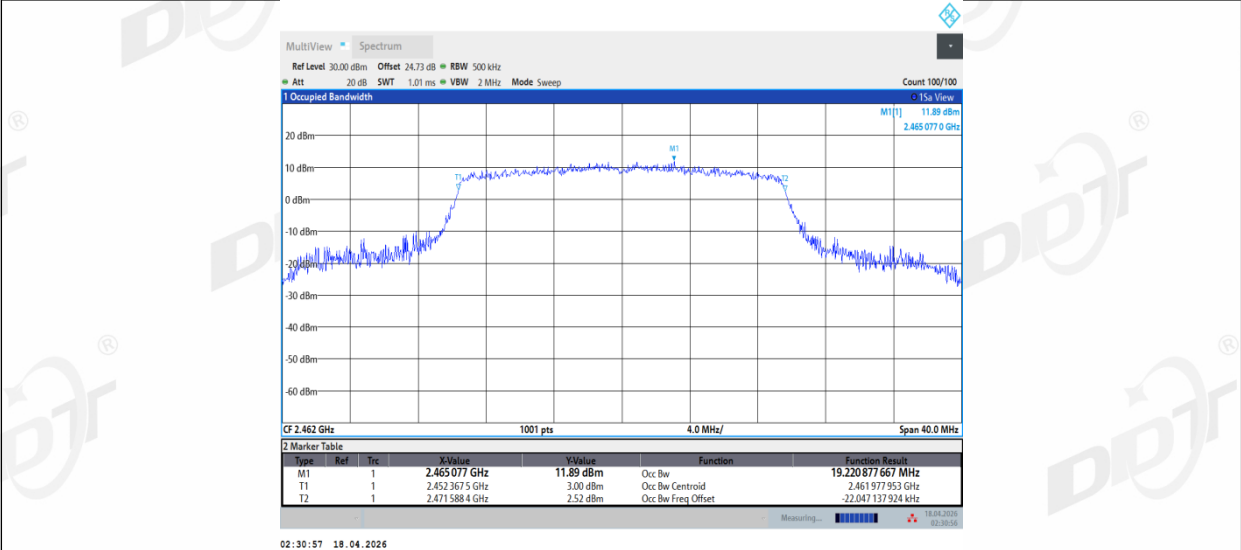
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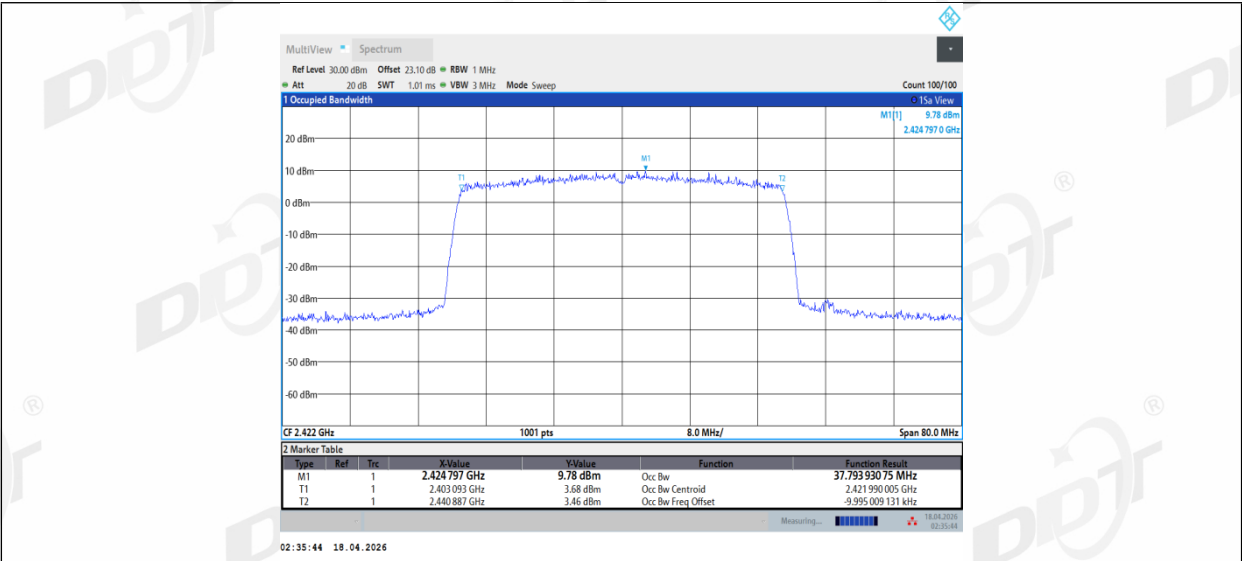
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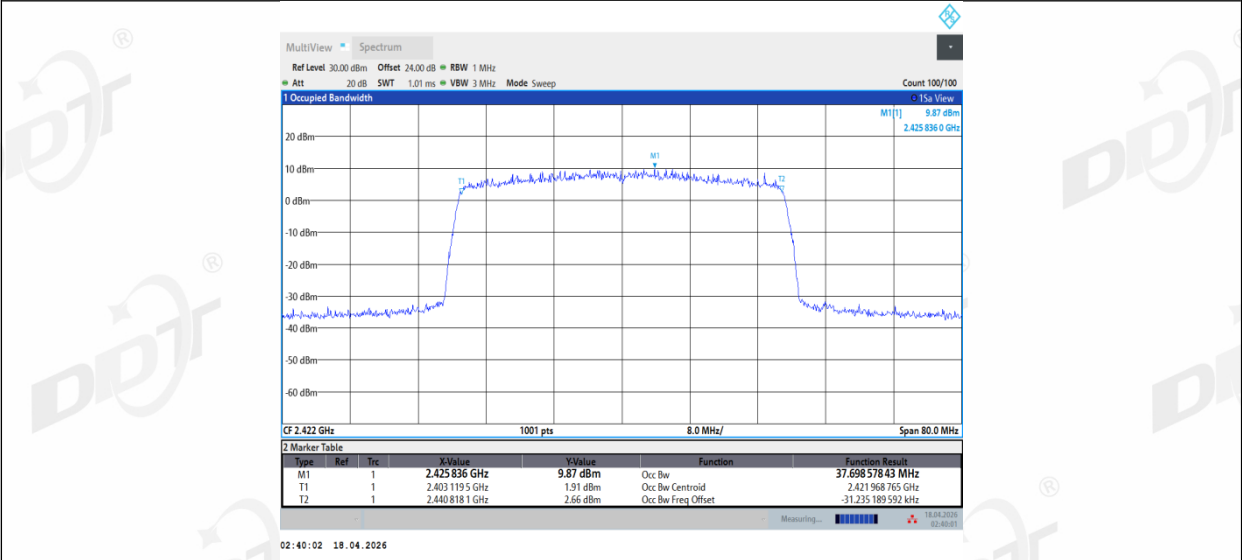
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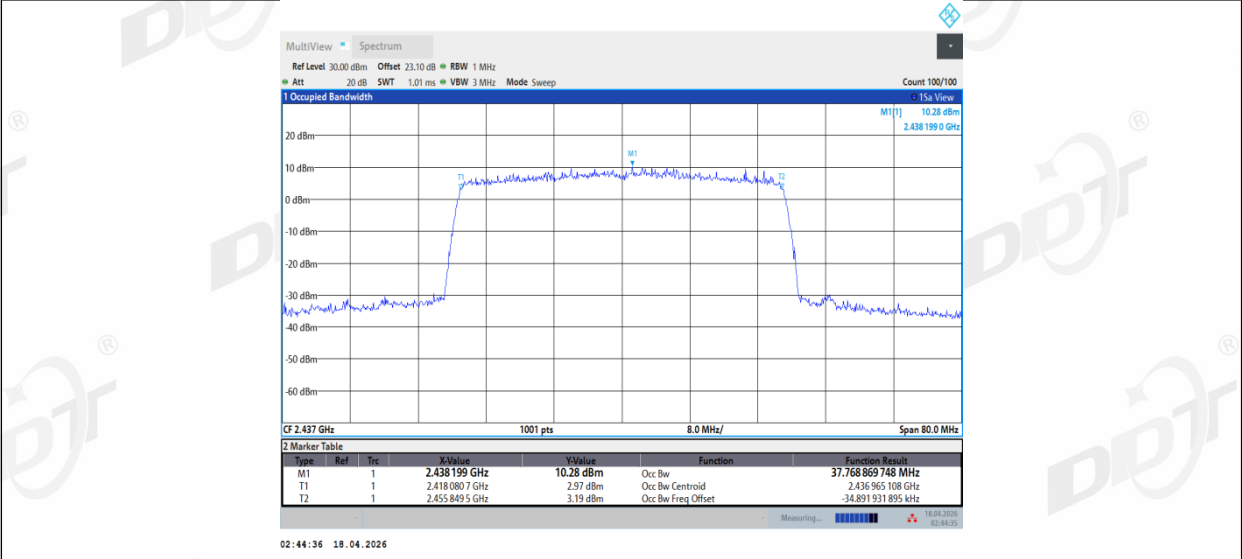
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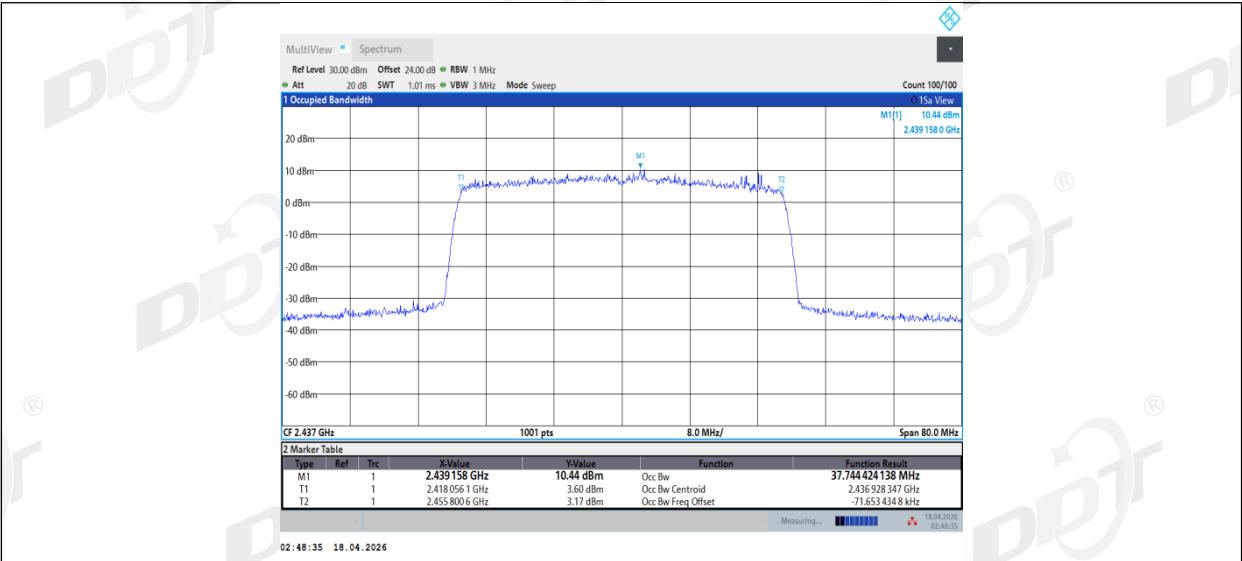
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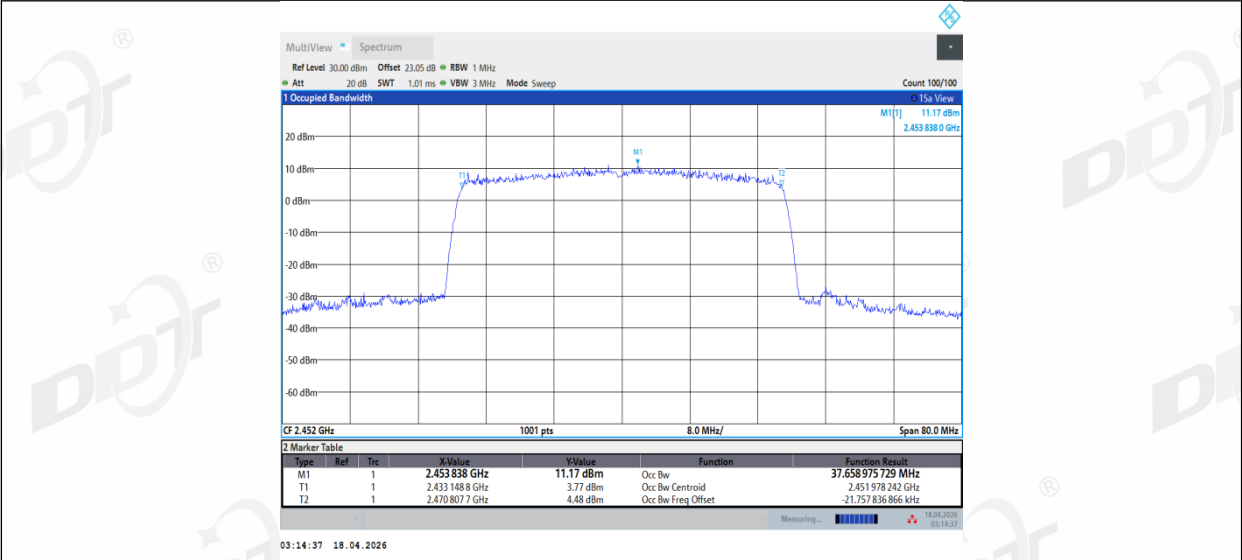
11AX40MIMO_Ant1_2437



11AX40MIMO_Ant2_2437



11AX40MIMO_Ant1_2452



11AX40MIMO_Ant2_2452

