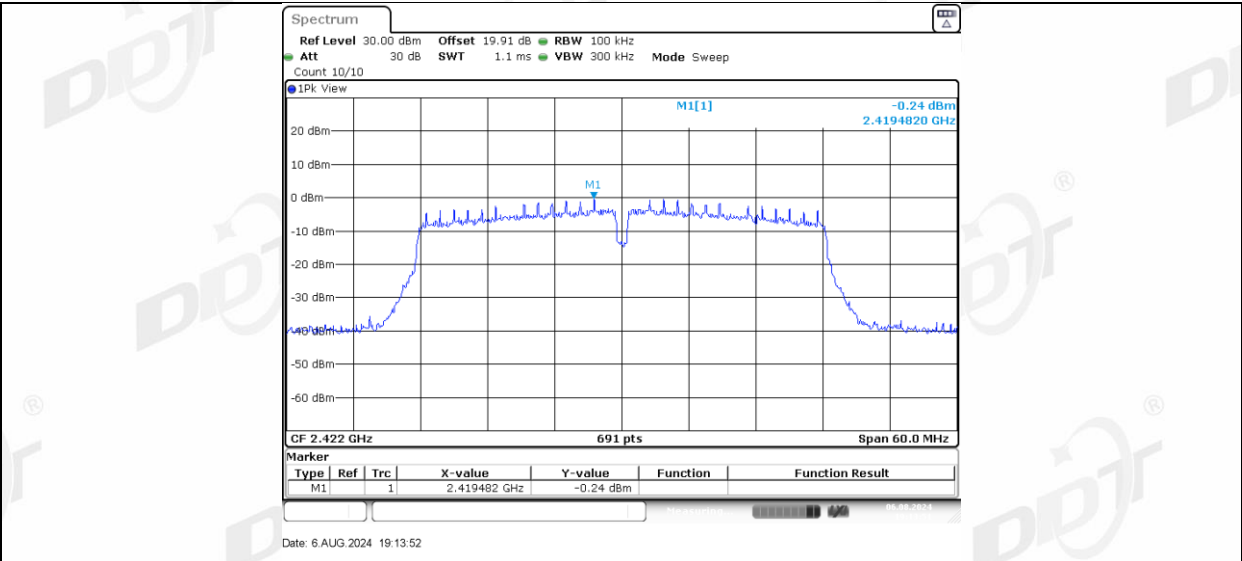
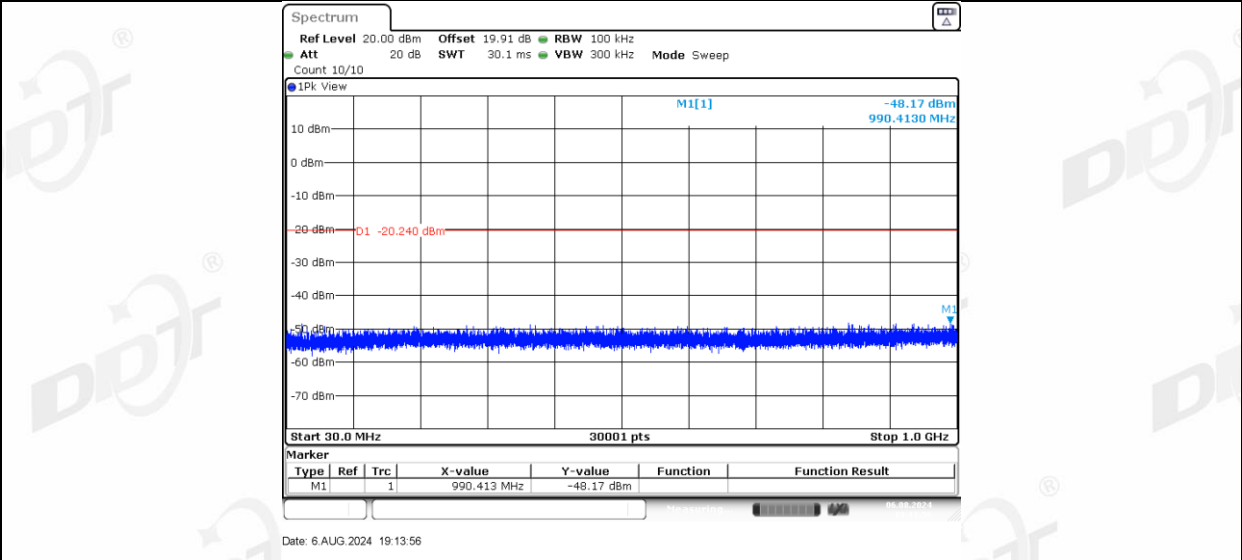
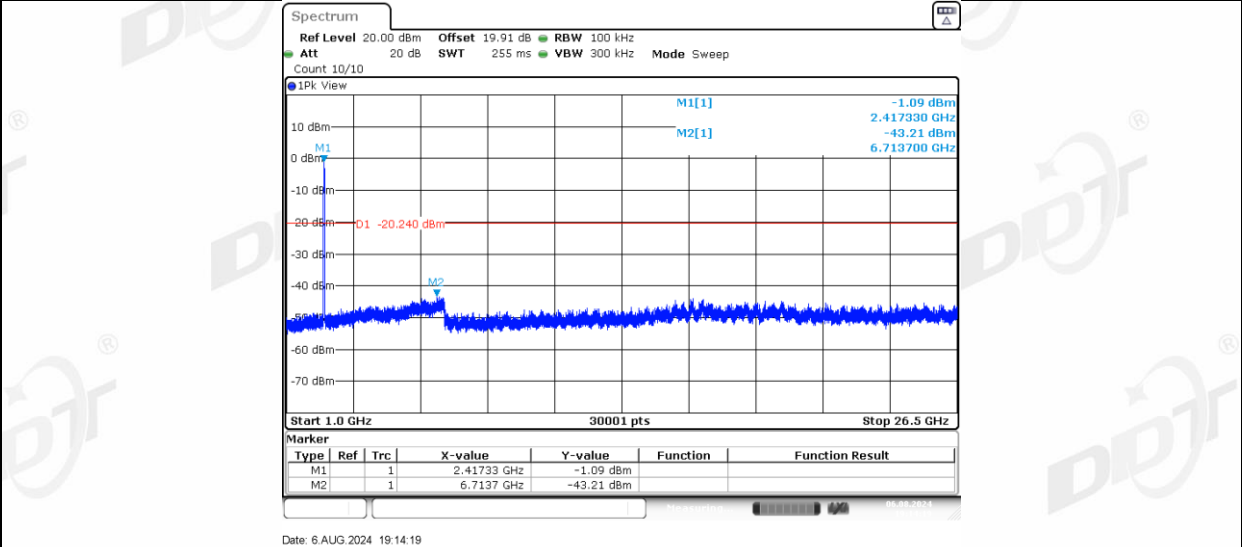




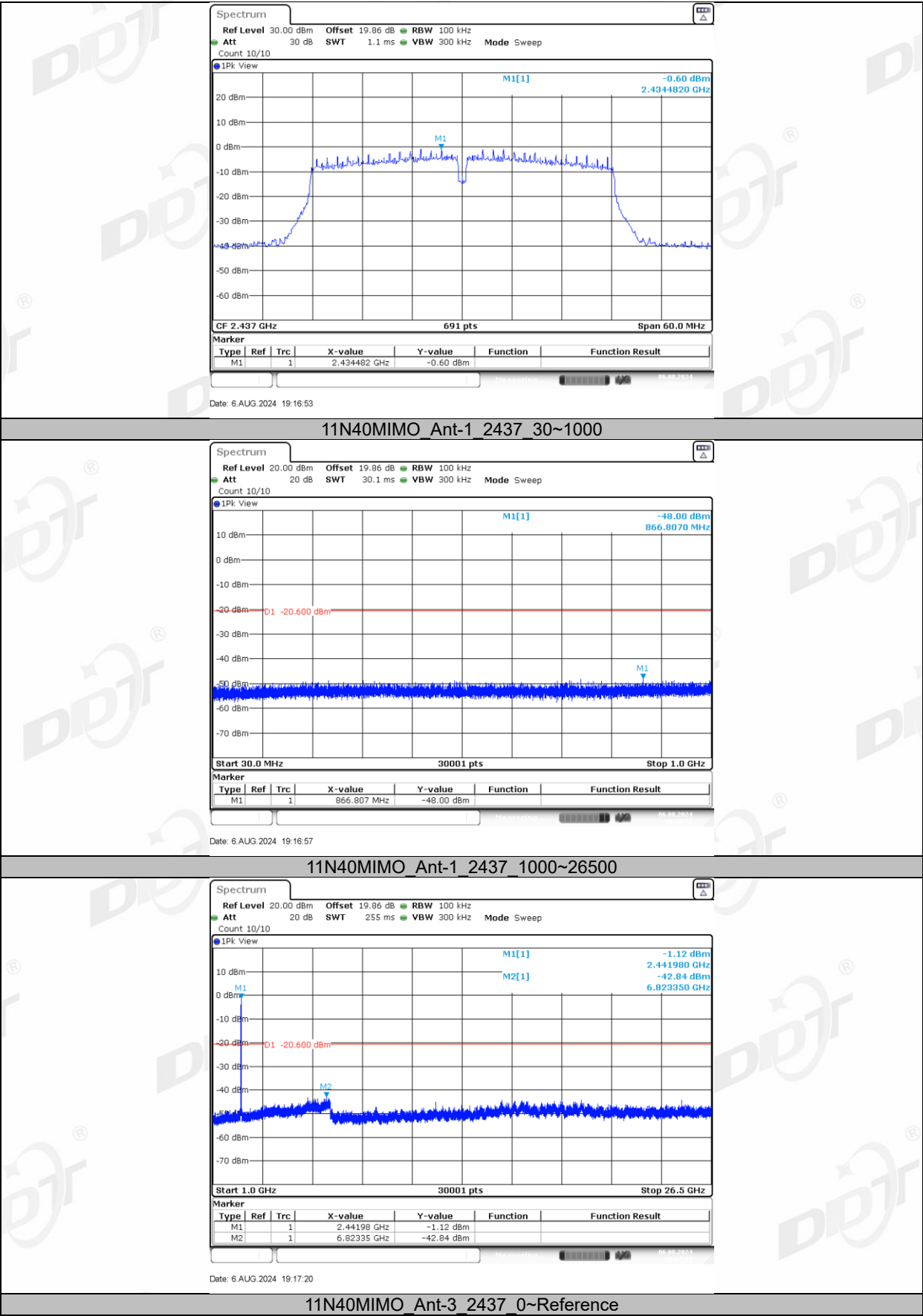
11N40MIMO_Ant-3_2422_30~1000

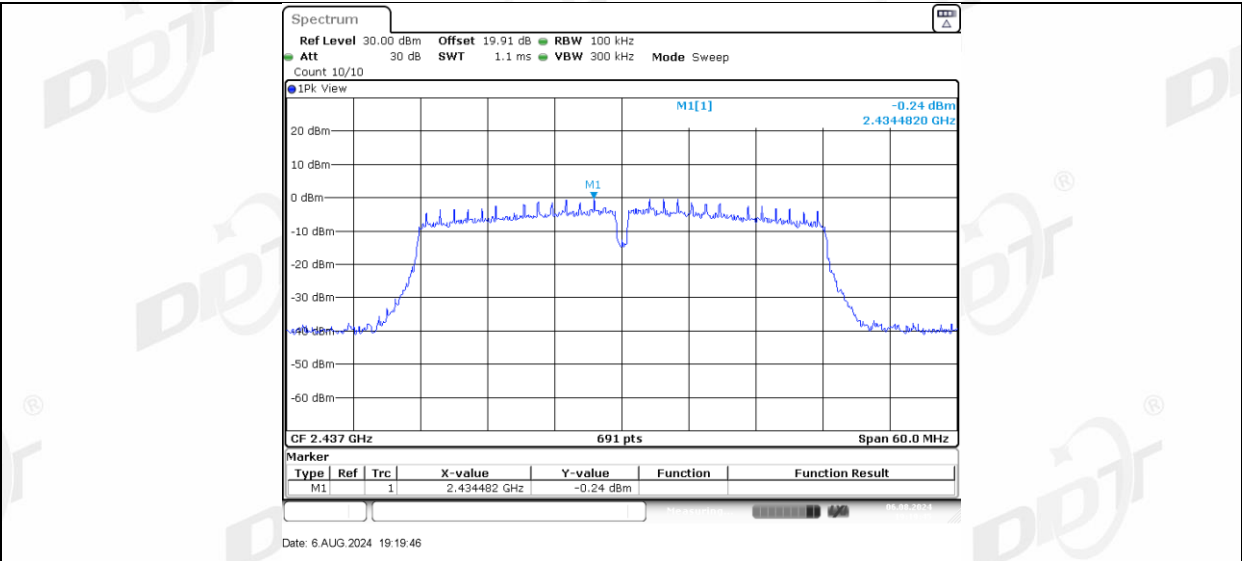


11N40MIMO_Ant-3_2422_1000~26500

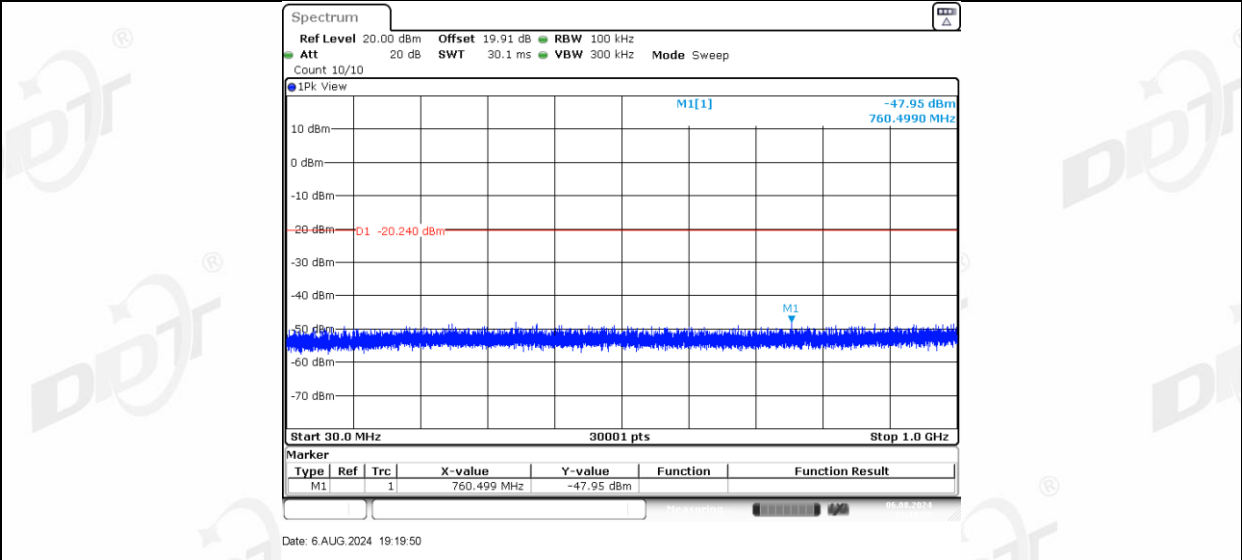


11N40MIMO_Ant-1_2437_0~Reference

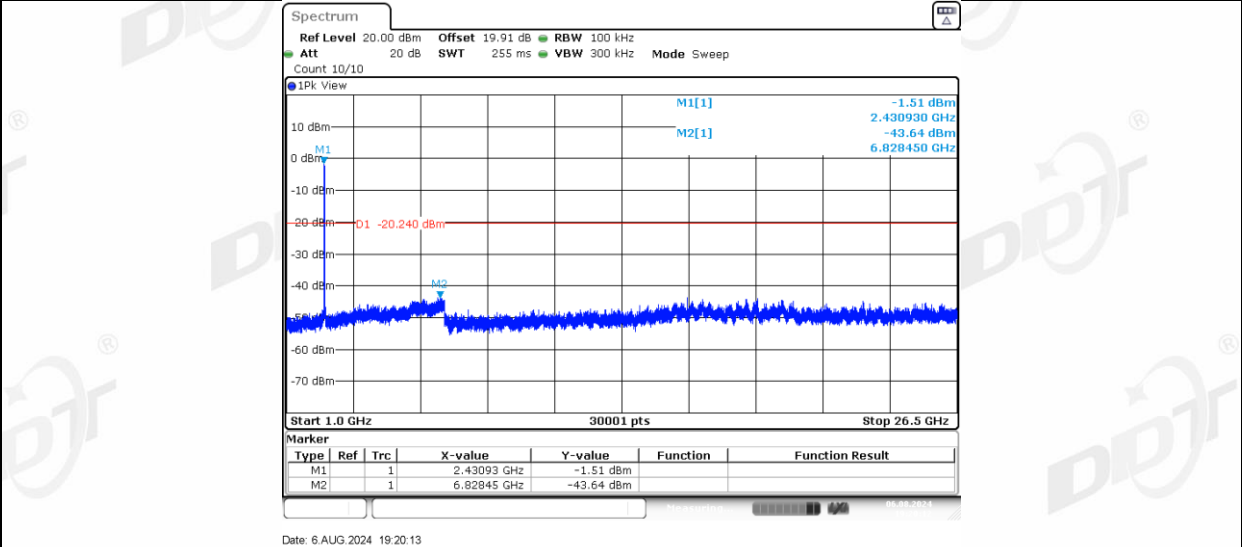




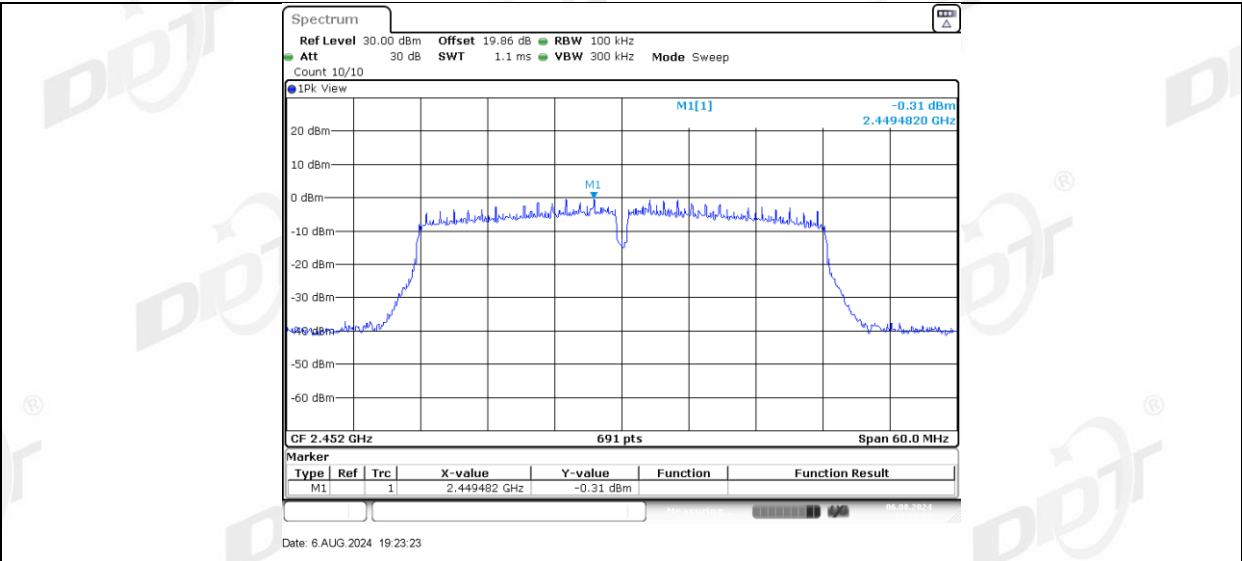
11N40MIMO_Ant-3_2437_30~1000



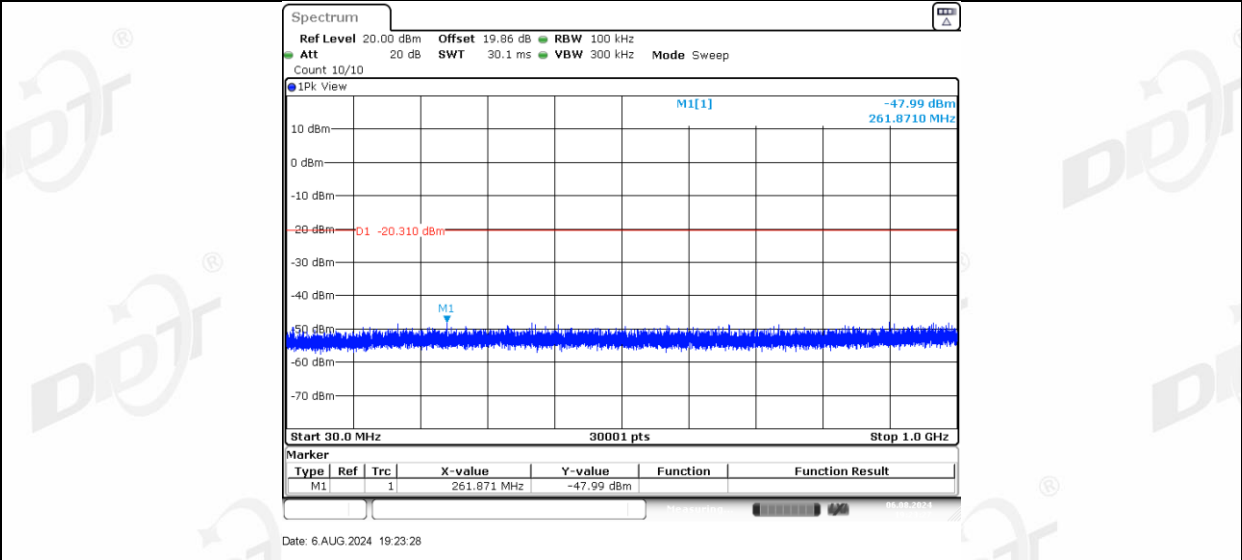
11N40MIMO_Ant-3_2437_1000~26500



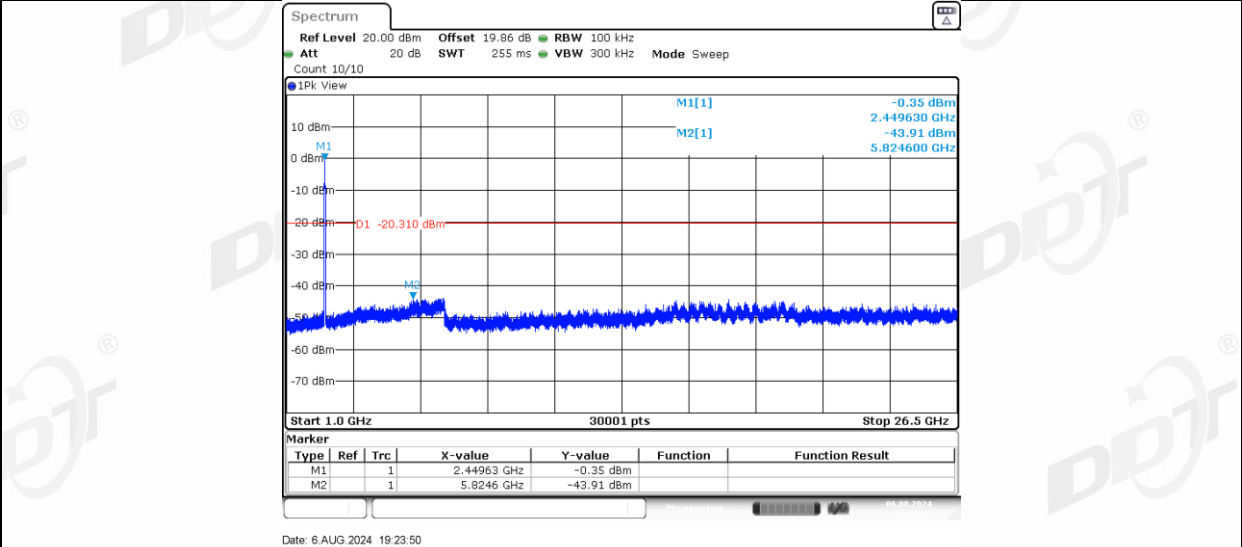
11N40MIMO_Ant-1_2452_0~Reference



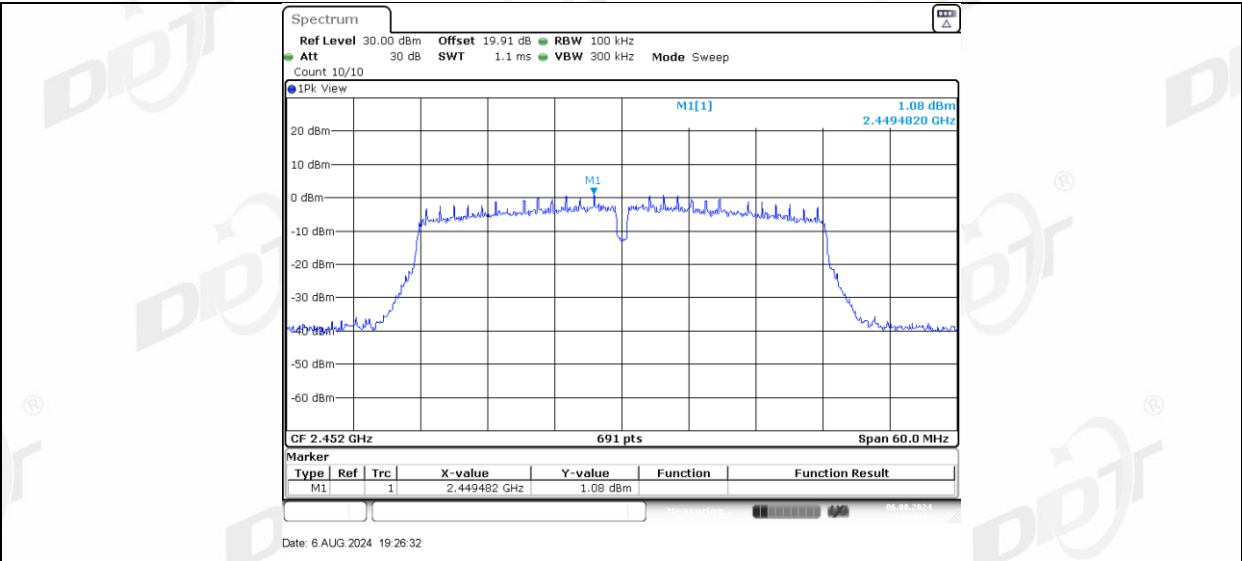
11N40MIMO_Ant-1_2452_30~1000



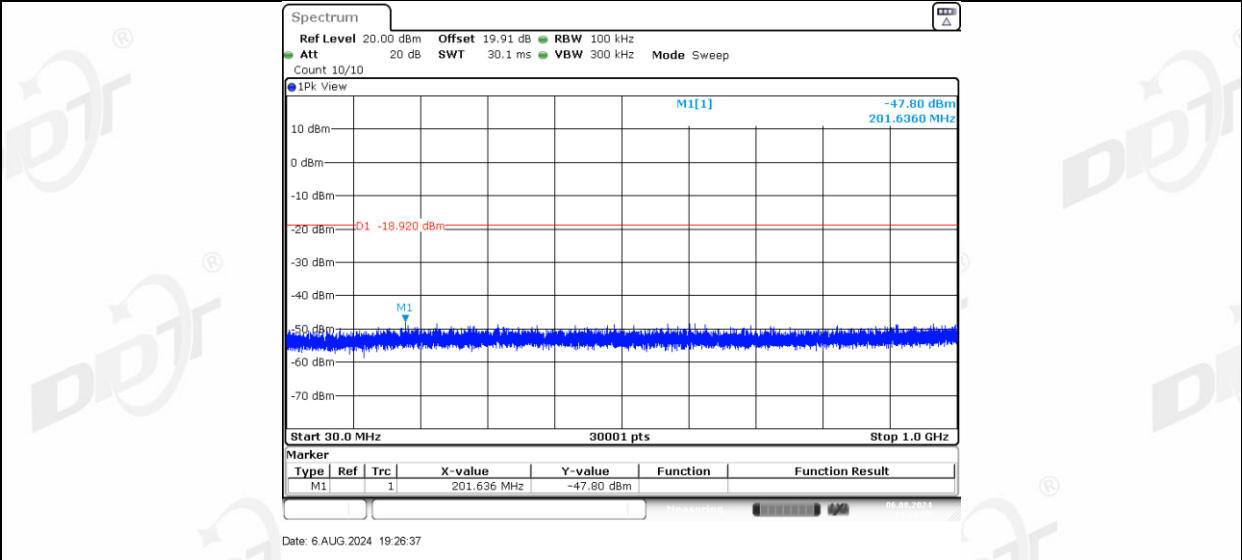
11N40MIMO_Ant-1_2452_1000~26500



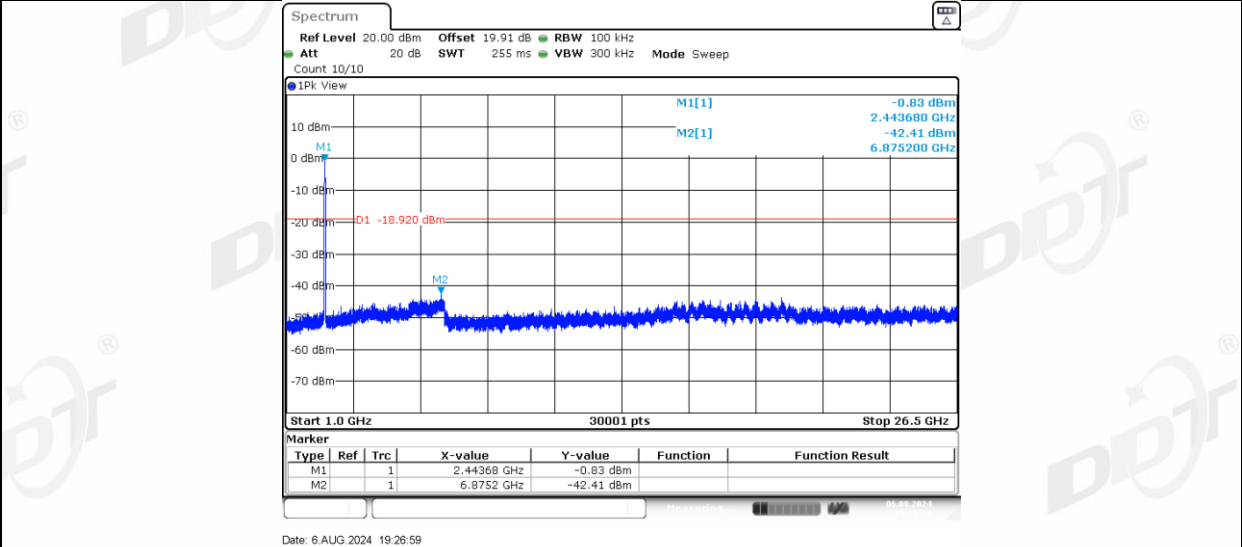
11N40MIMO_Ant-3_2452_0~Reference



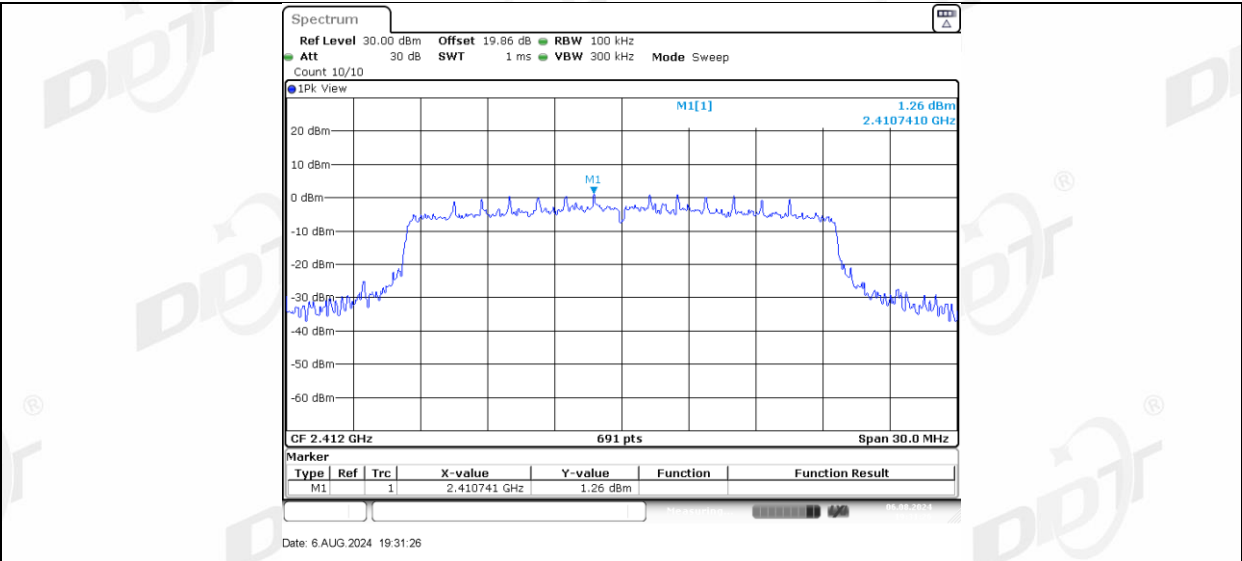
11N40MIMO_Ant-3_2452_30~1000



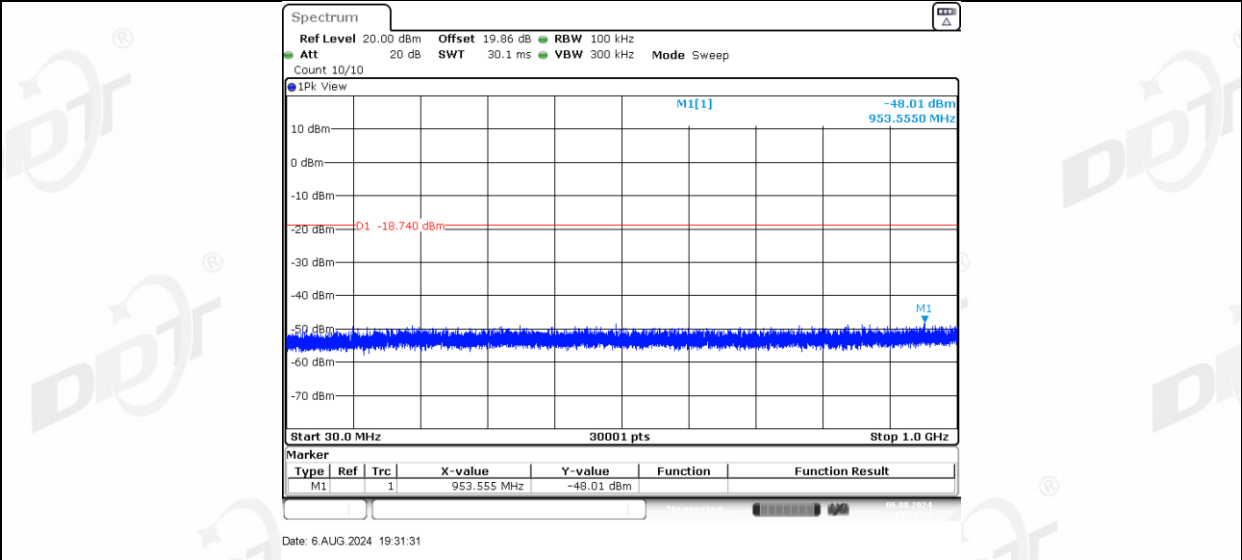
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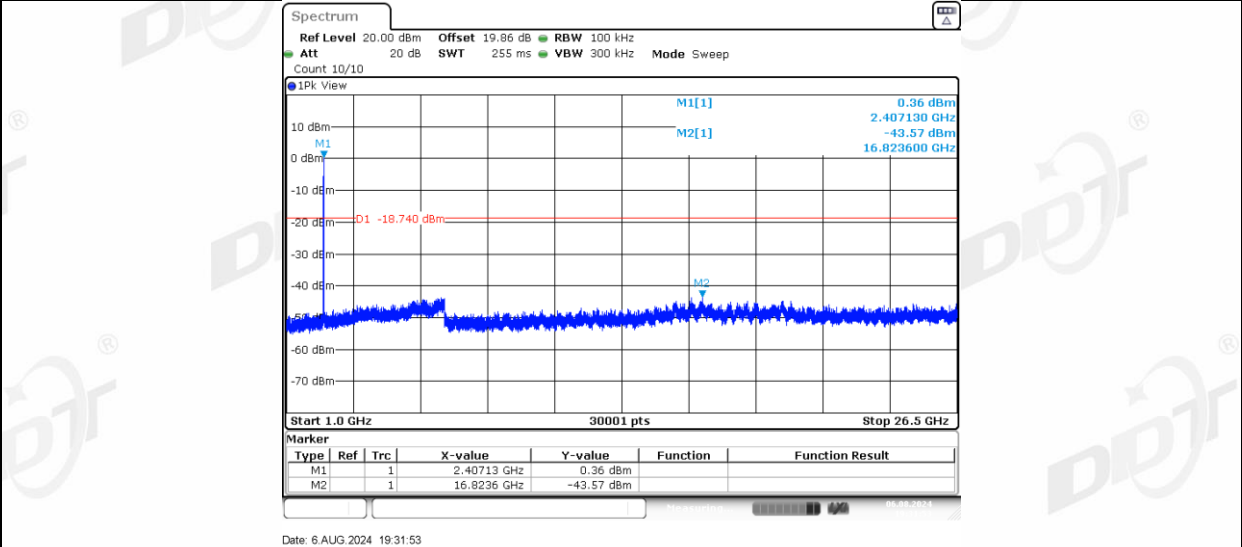
11AX20MIMO_Ant-1_2412_0~Reference



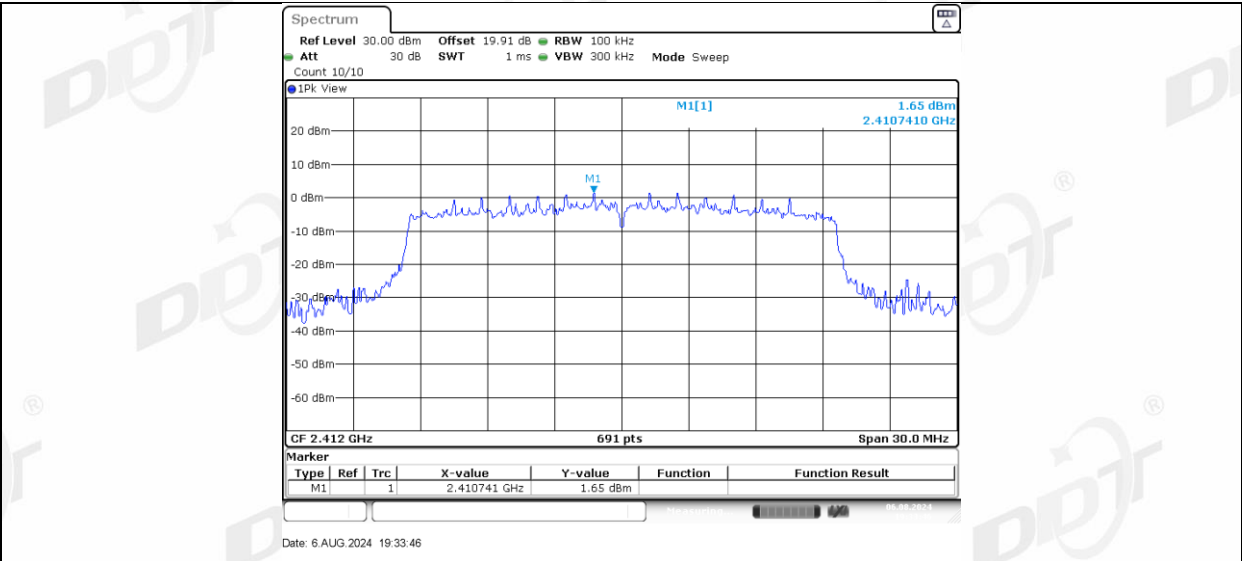
11AX20MIMO_Ant-1_2412_30~1000



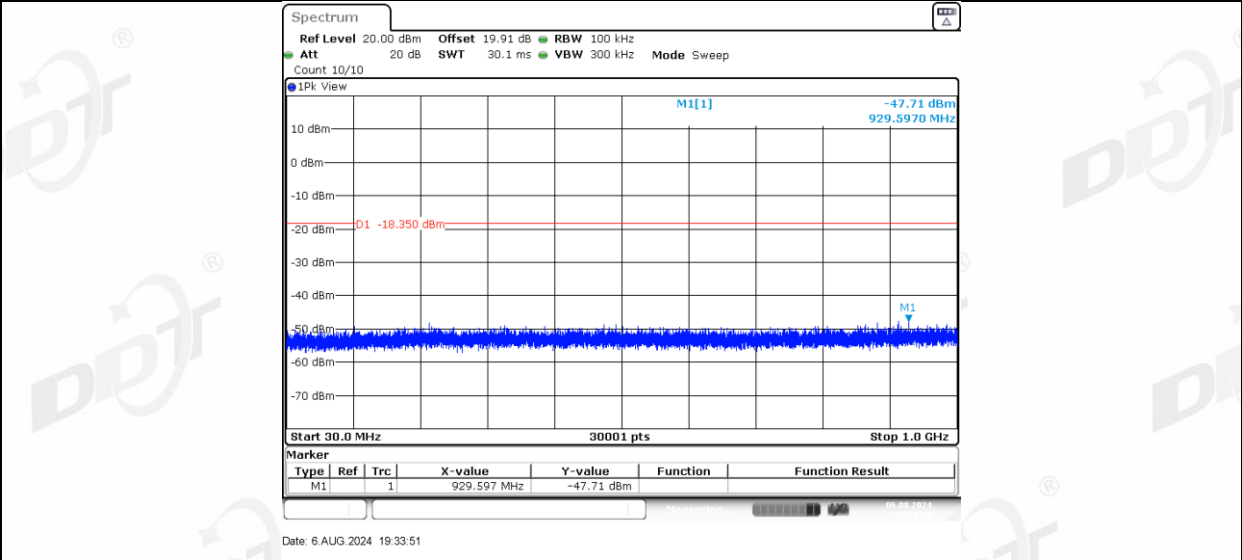
11AX20MIMO_Ant-1_2412_1000~26500



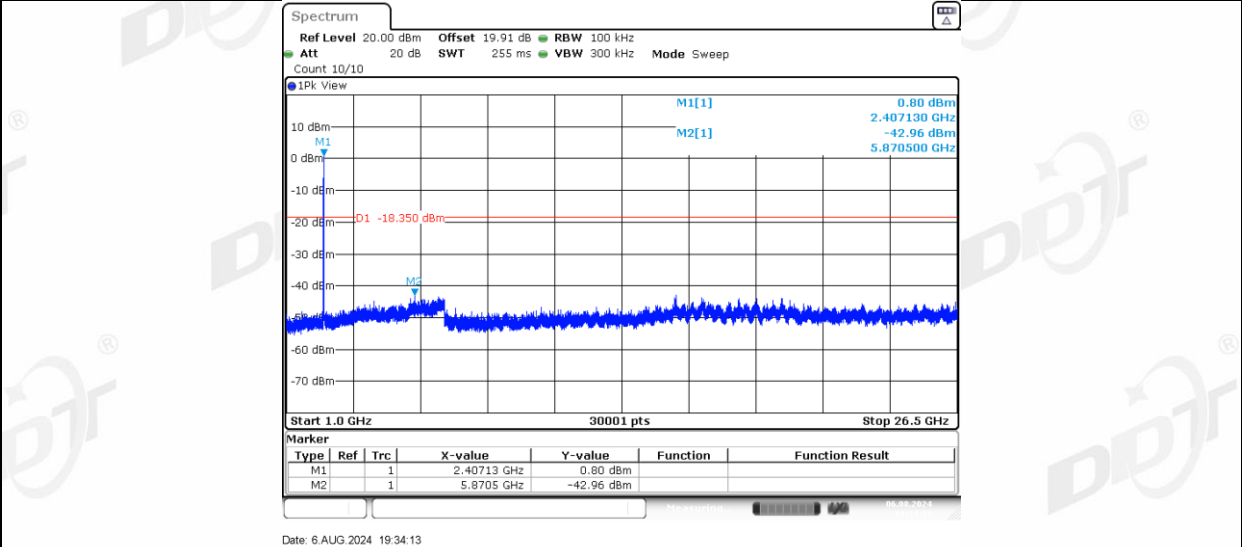
11AX20MIMO_Ant-3_2412_0~Reference



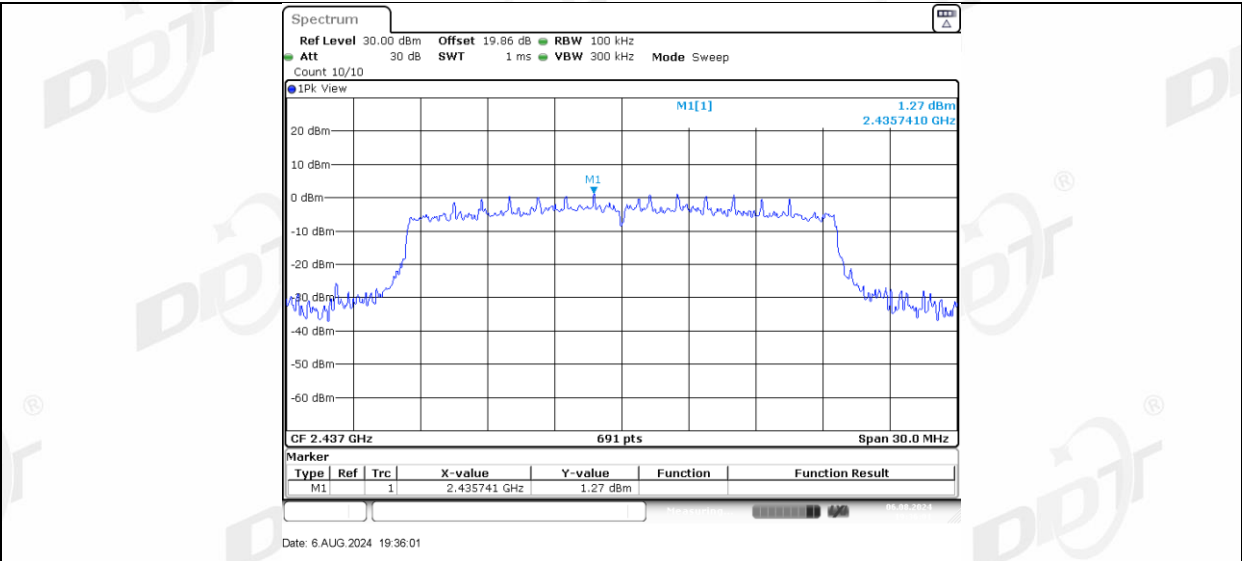
11AX20MIMO_Ant-3_2412_30~1000



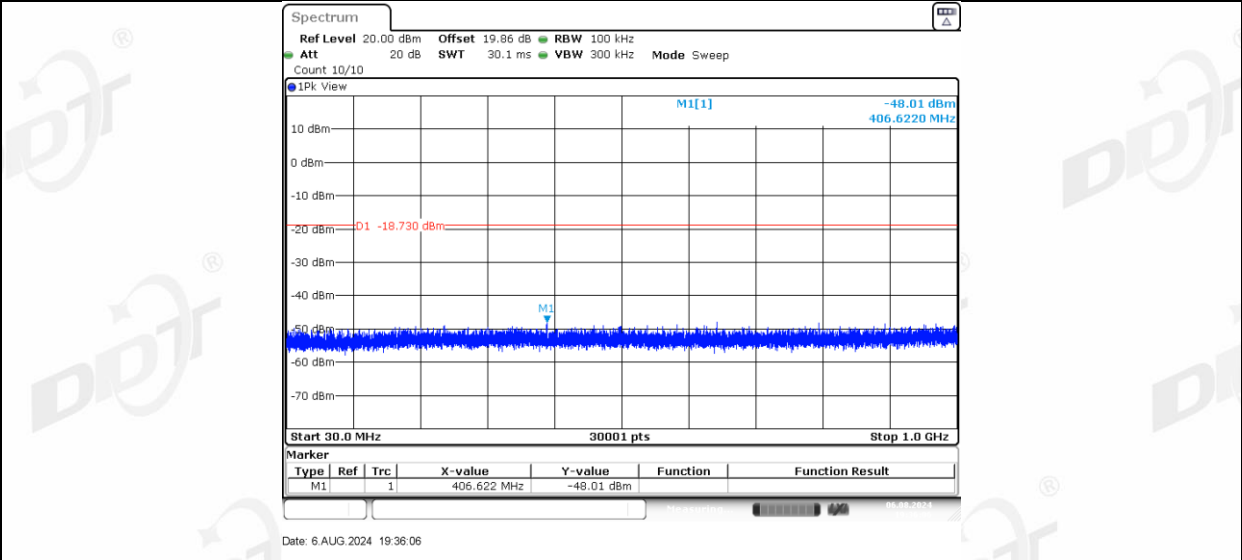
11AX20MIMO_Ant-3_2412_1000~26500



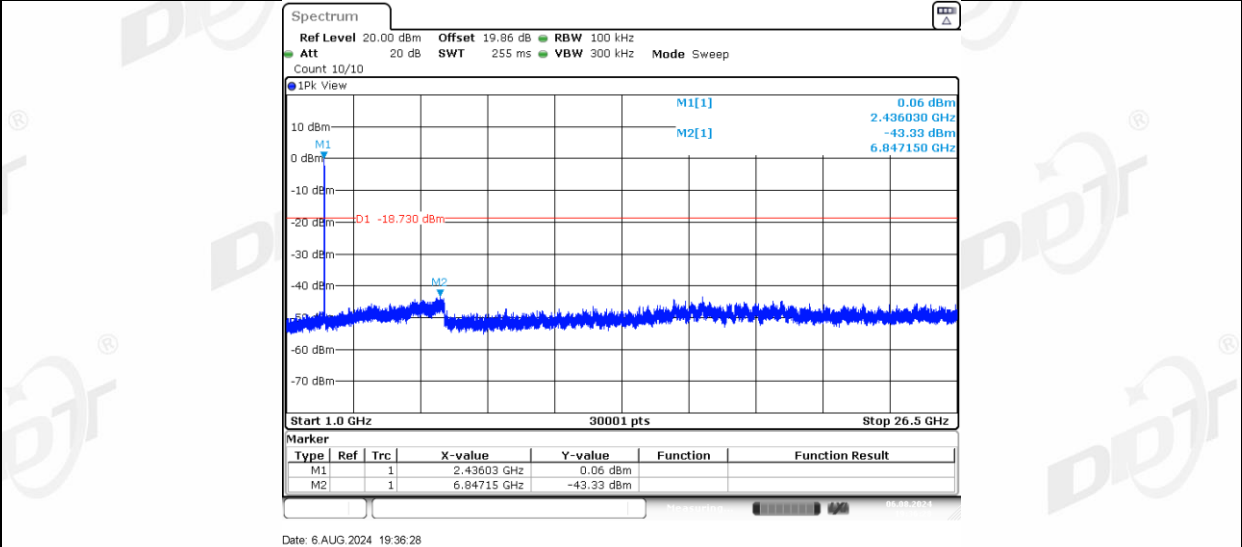
11AX20MIMO_Ant-1_2437_0~Reference



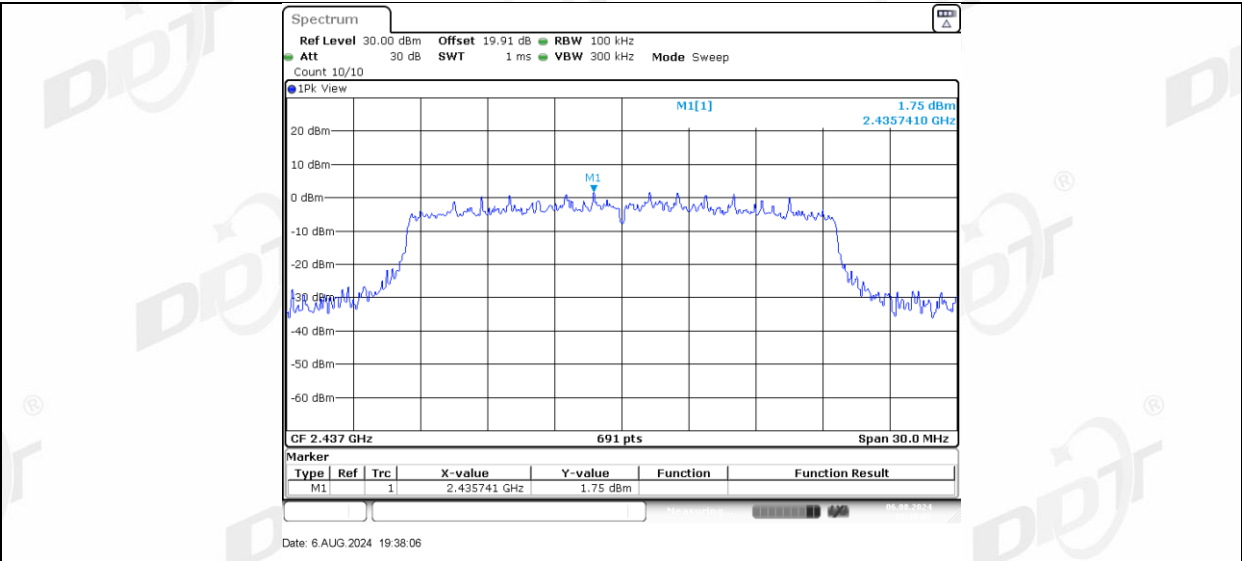
11AX20MIMO_Ant-1_2437_30~1000



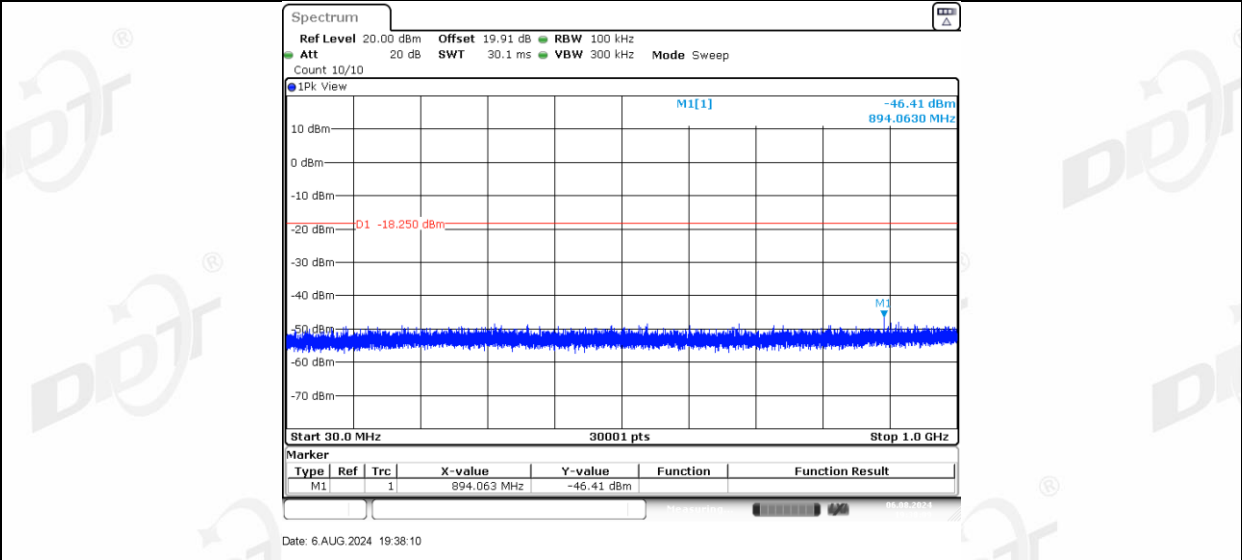
11AX20MIMO_Ant-1_2437_1000~26500



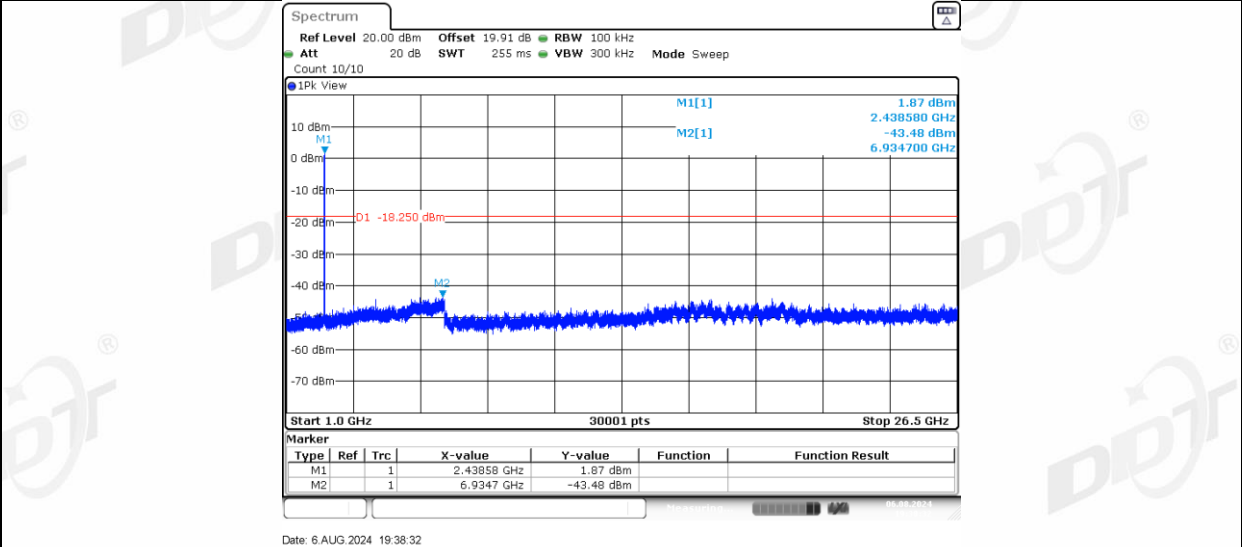
11AX20MIMO_Ant-3_2437_0~Reference



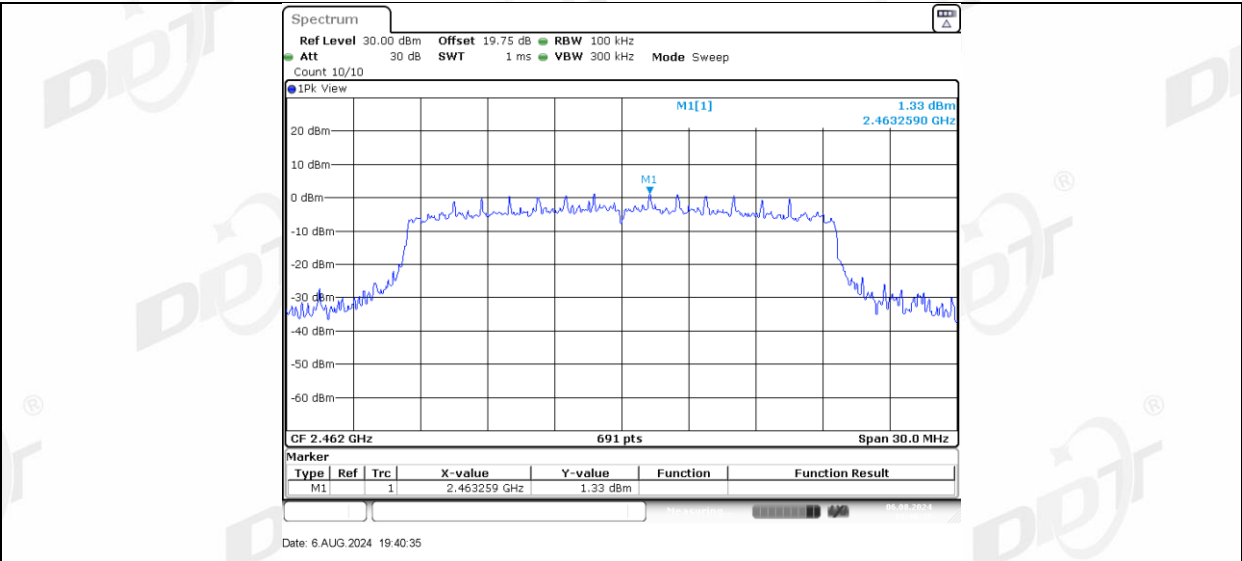
11AX20MIMO_Ant-3_2437_30~1000



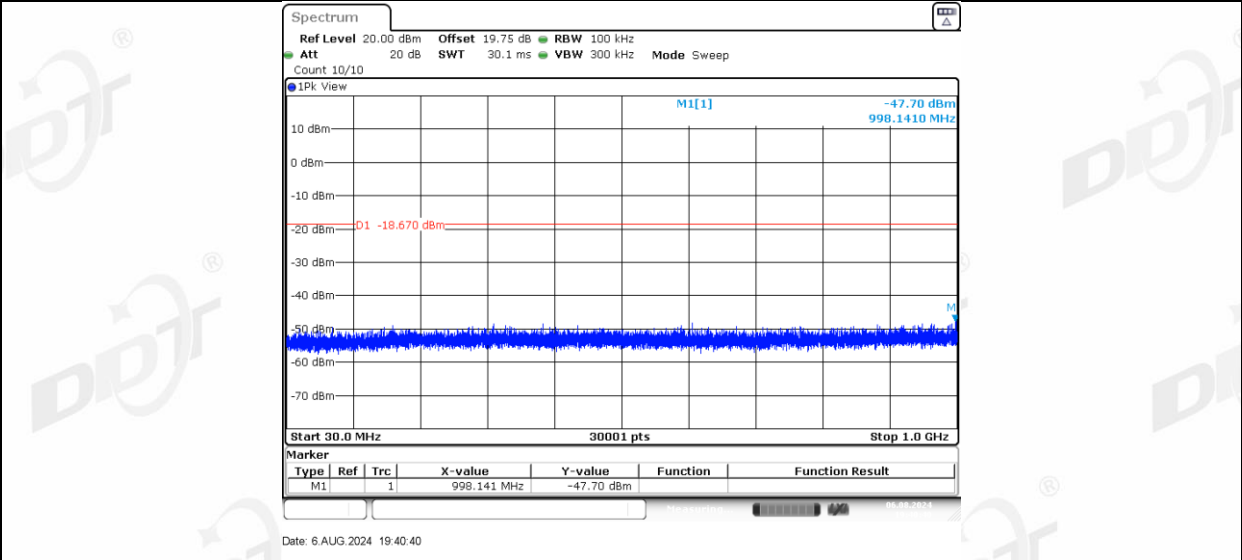
11AX20MIMO_Ant-3_2437_1000~26500



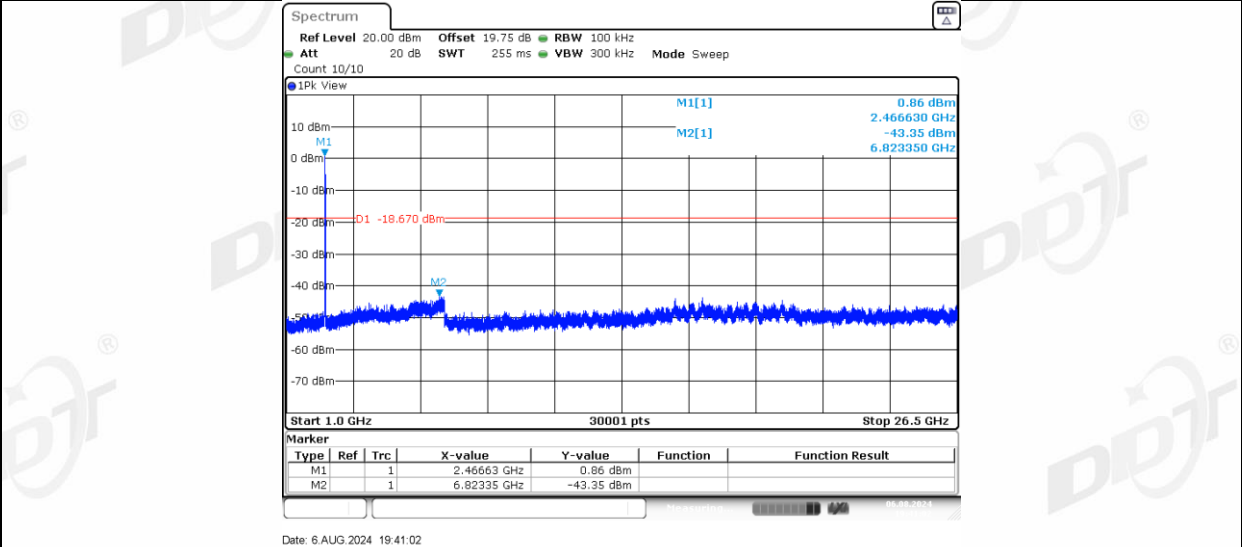
11AX20MIMO_Ant-1_2462_0~Reference



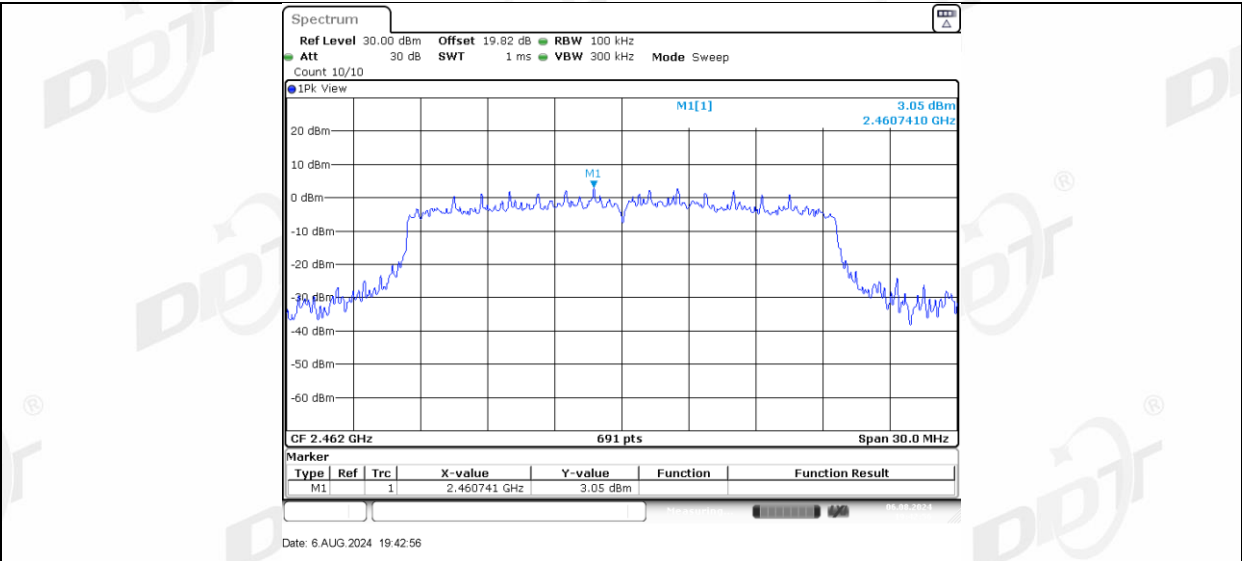
11AX20MIMO_Ant-1_2462_30~1000



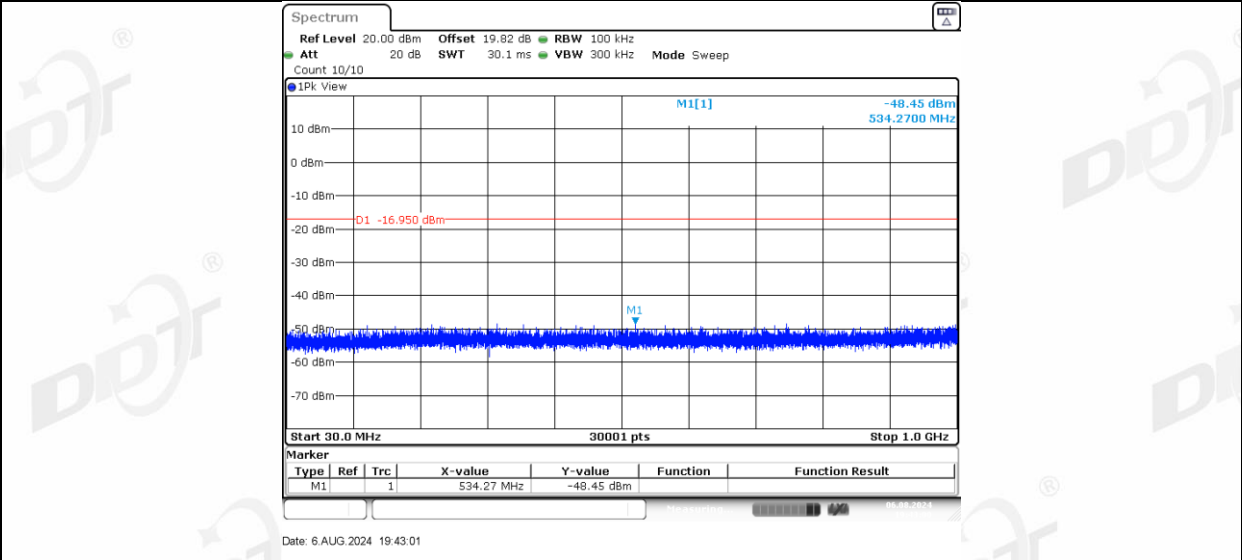
11AX20MIMO_Ant-1_2462_1000~26500



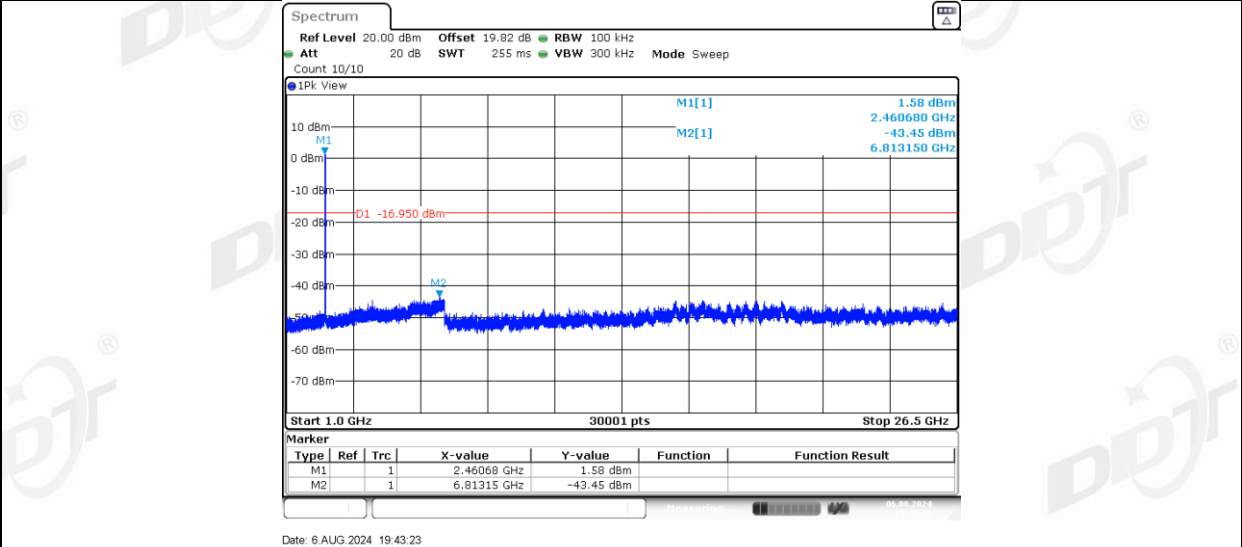
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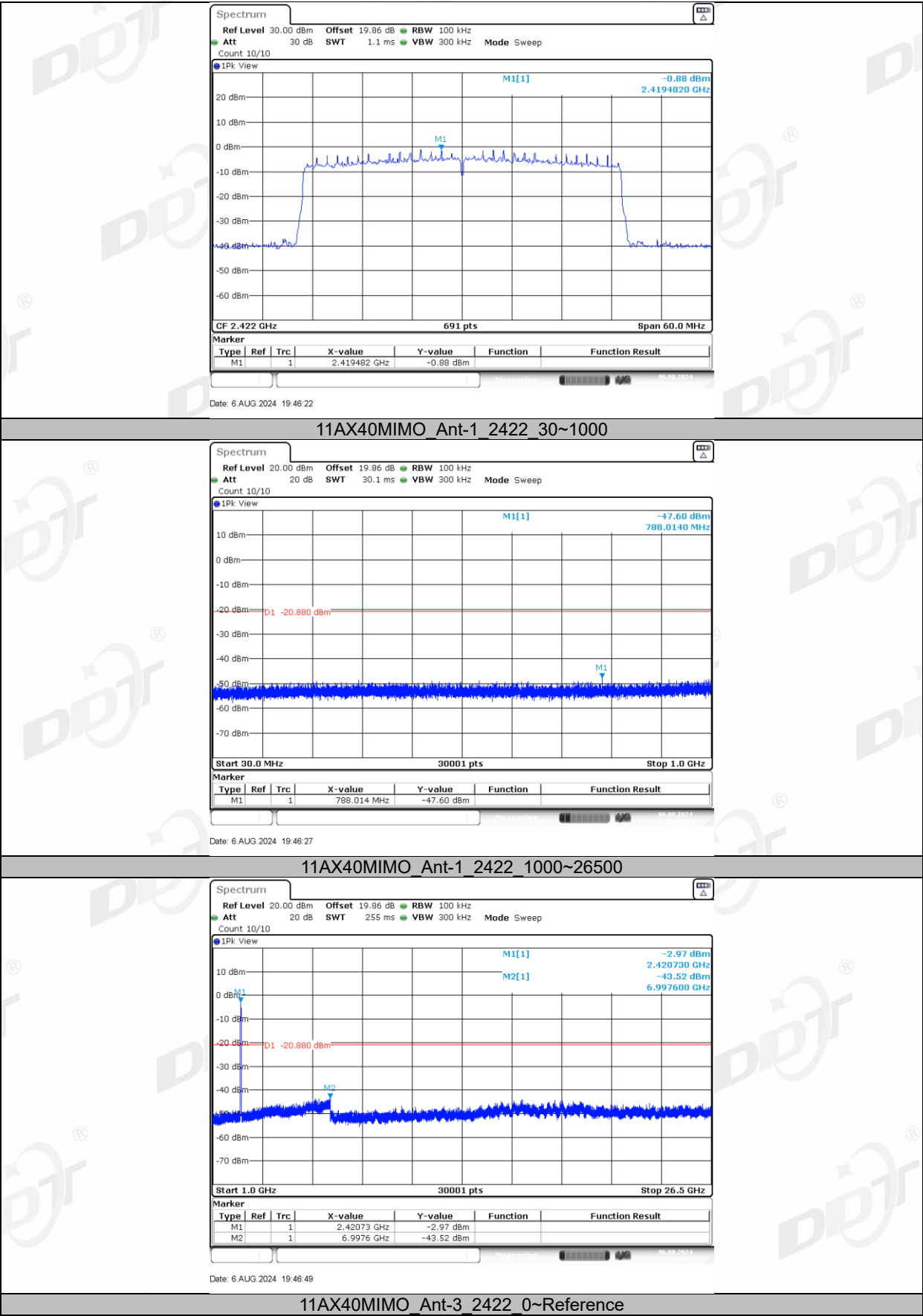
11AX20MIMO_Ant-3_2462_30~1000

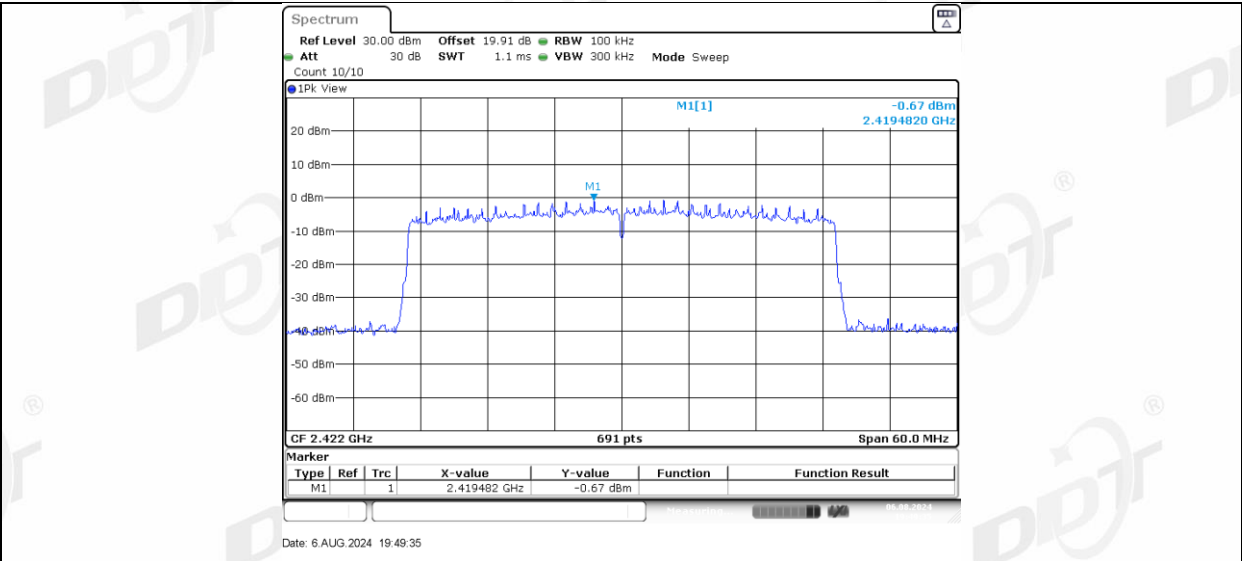


11AX20MIMO_Ant-3_2462_1000~26500

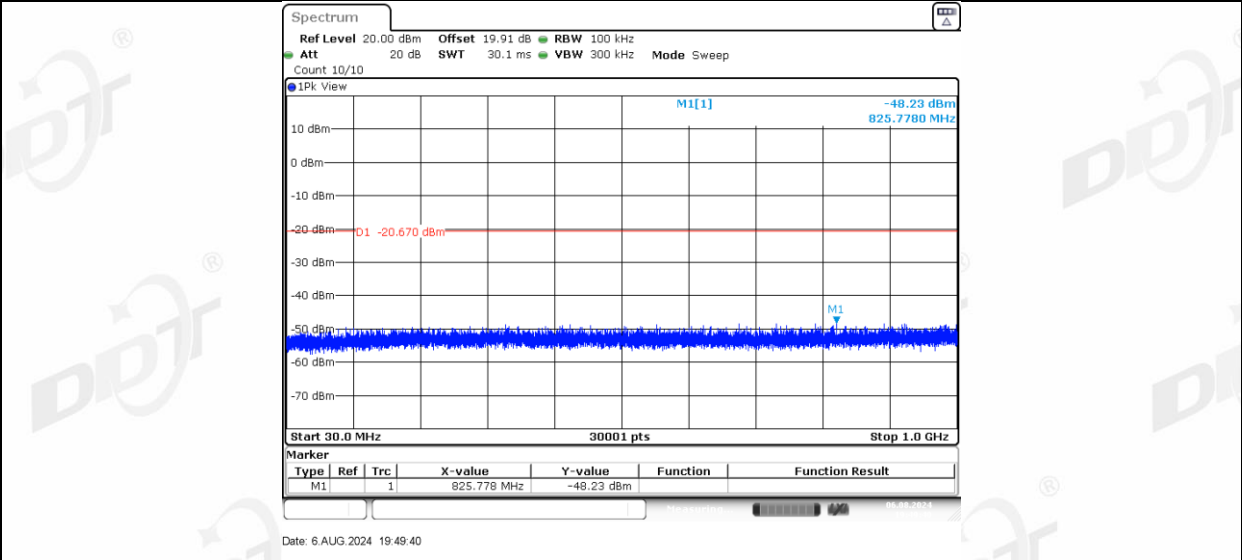


11AX40MIMO_Ant-1_2422_0~Reference

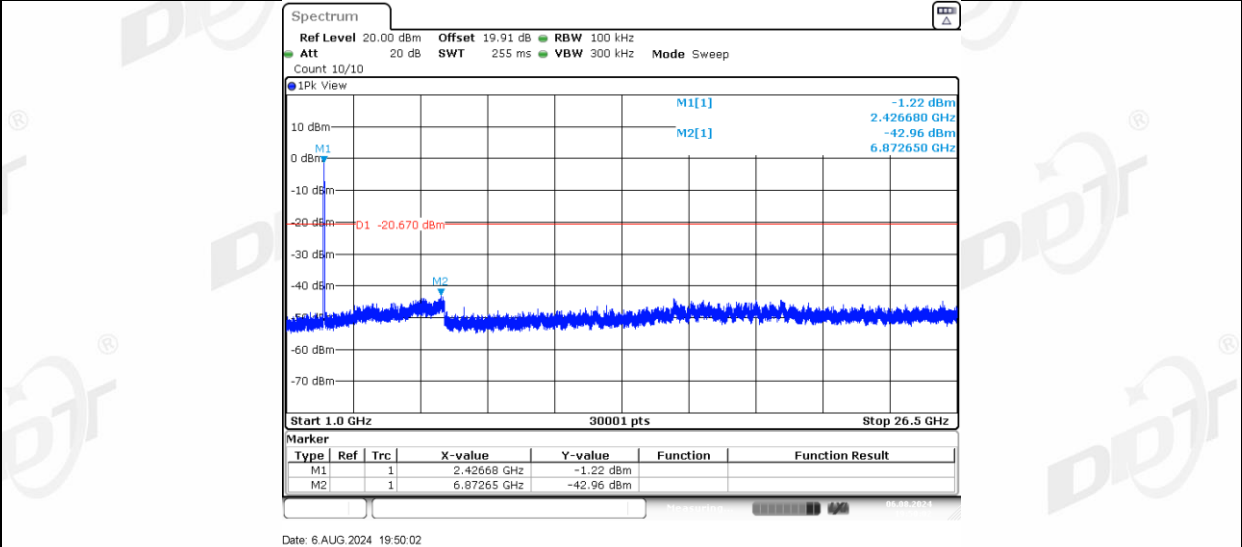




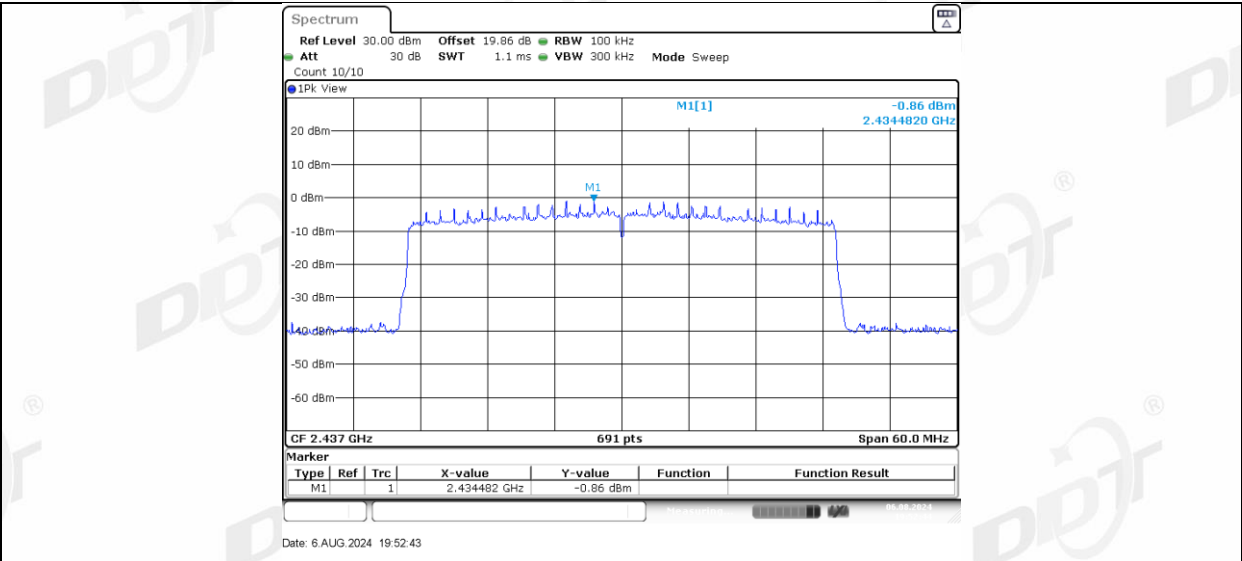
11AX40MIMO_Ant-3_2422_30~1000



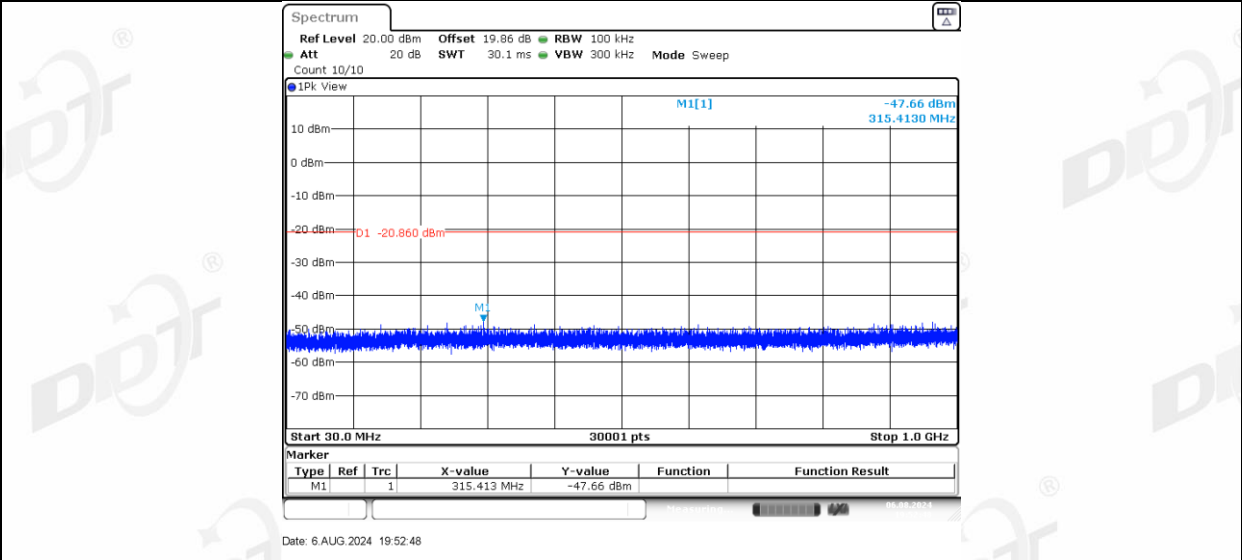
11AX40MIMO_Ant-3_2422_1000~26500



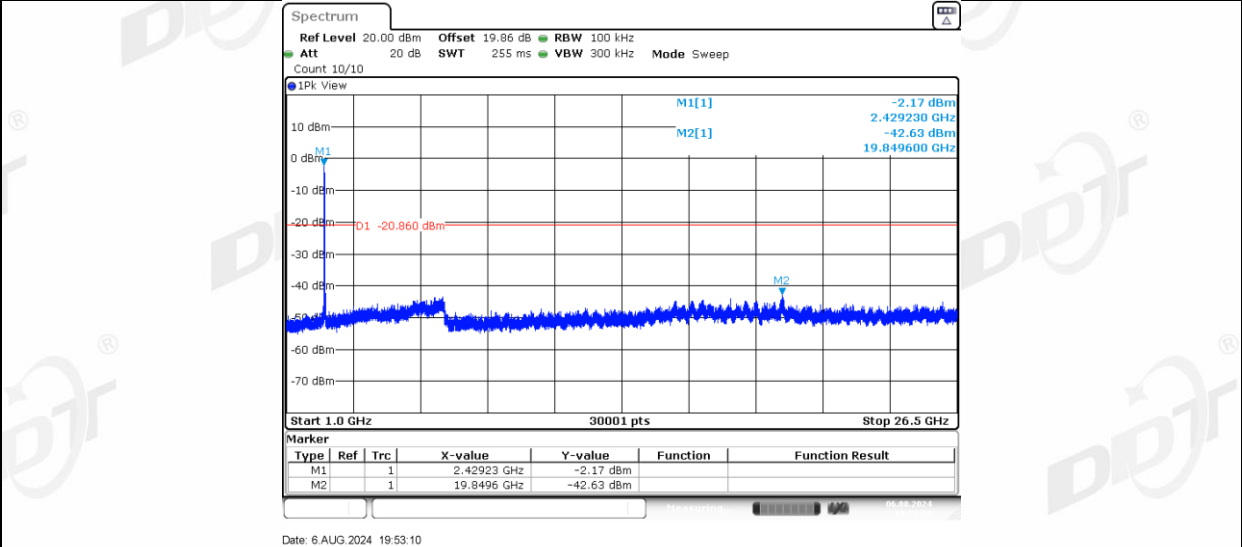
11AX40MIMO_Ant-1_2437_0~Reference



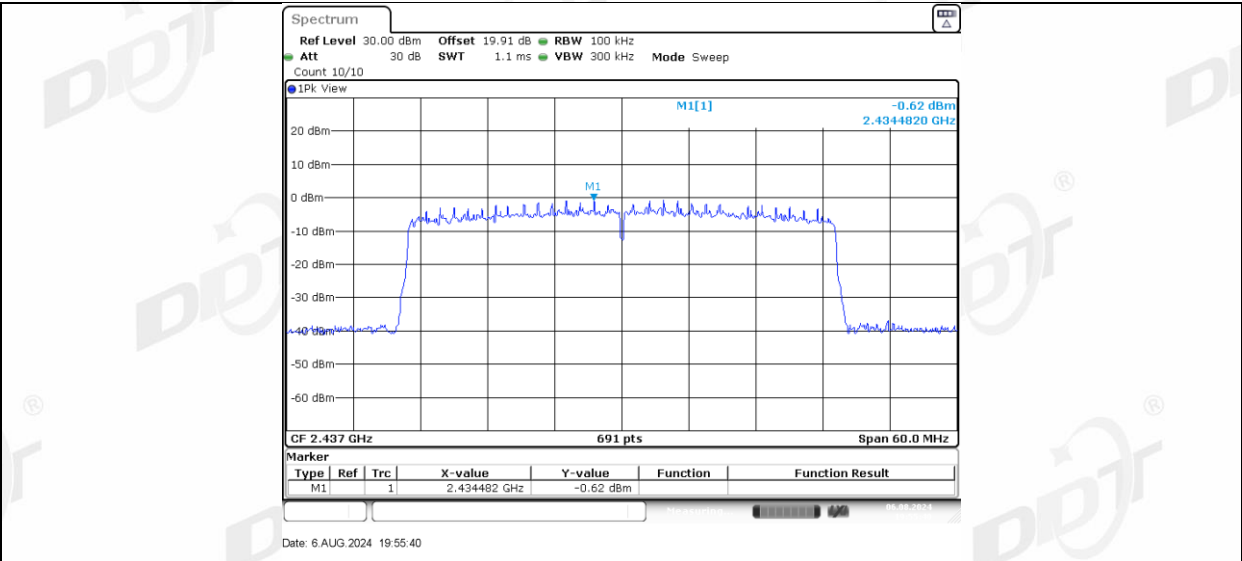
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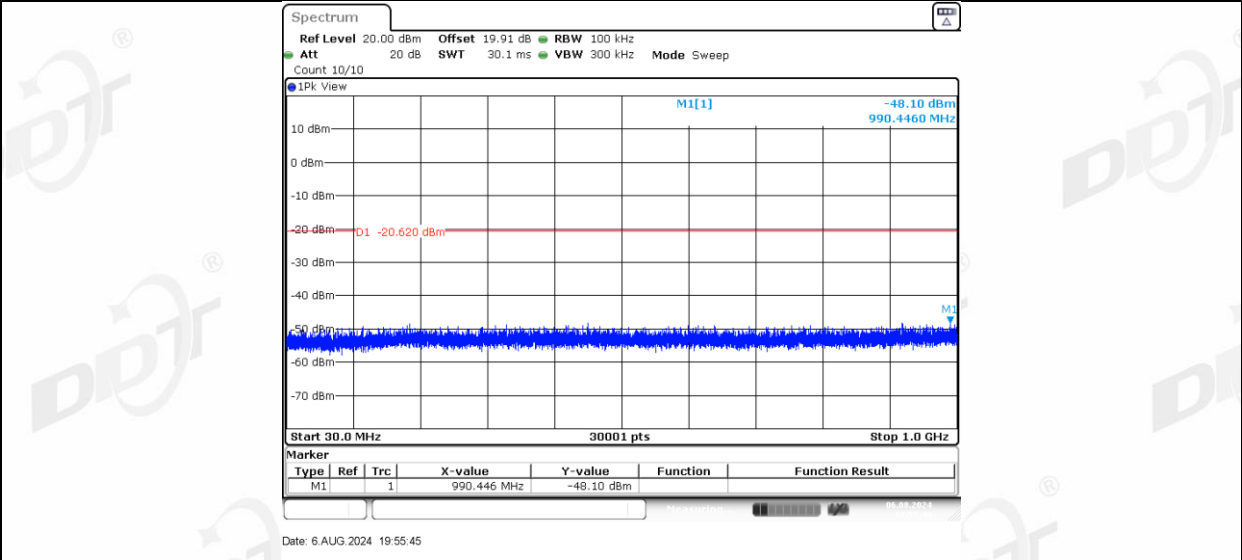
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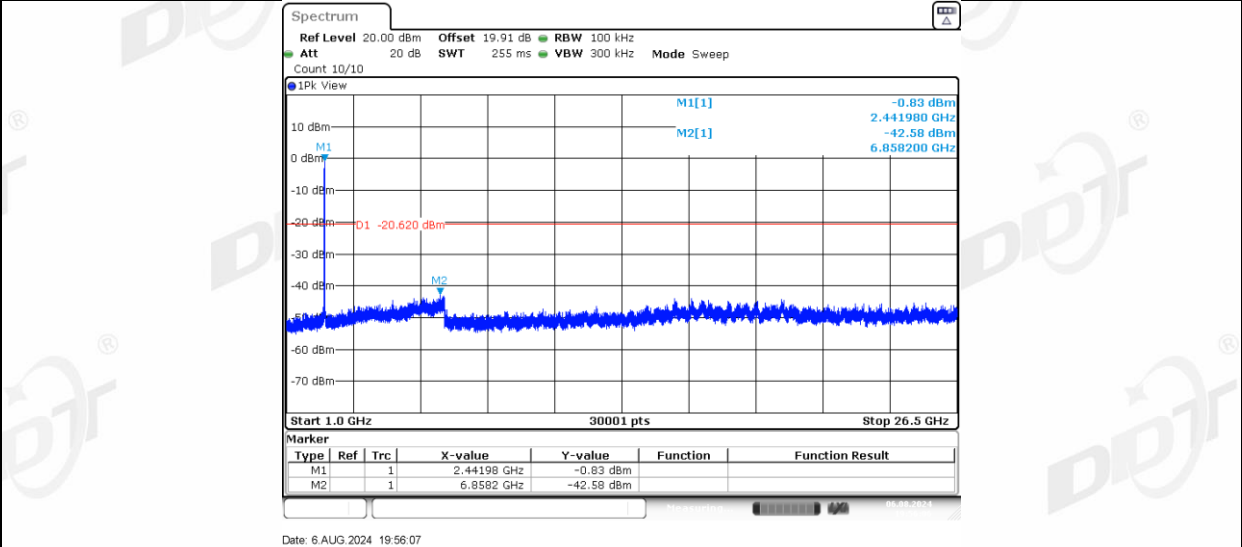
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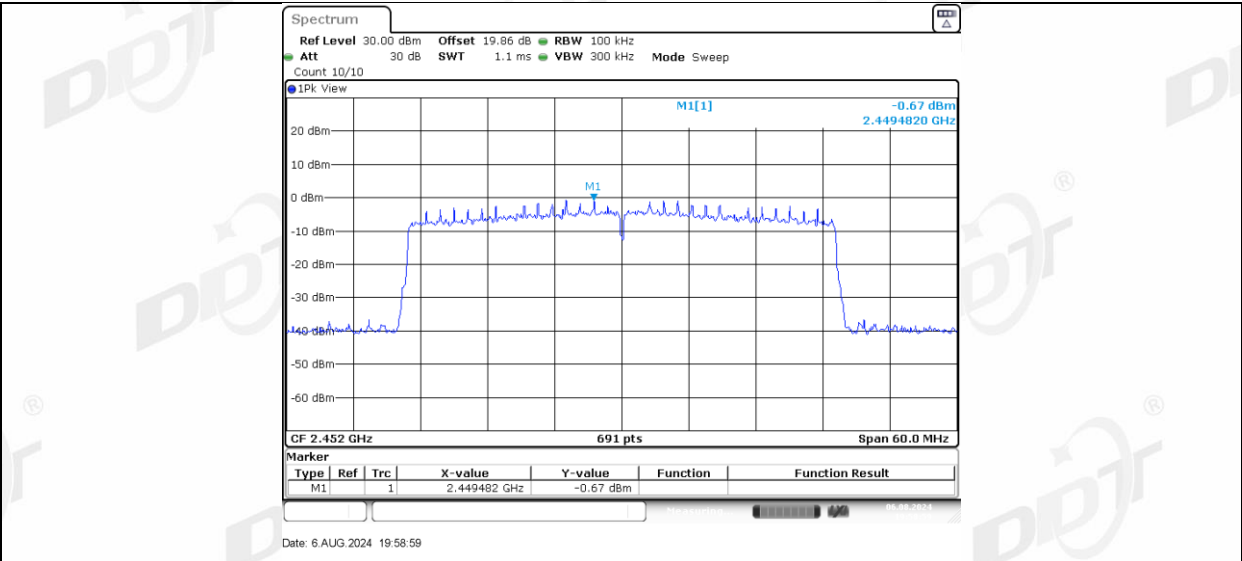
11AX40MIMO_Ant-3_2437_30~1000



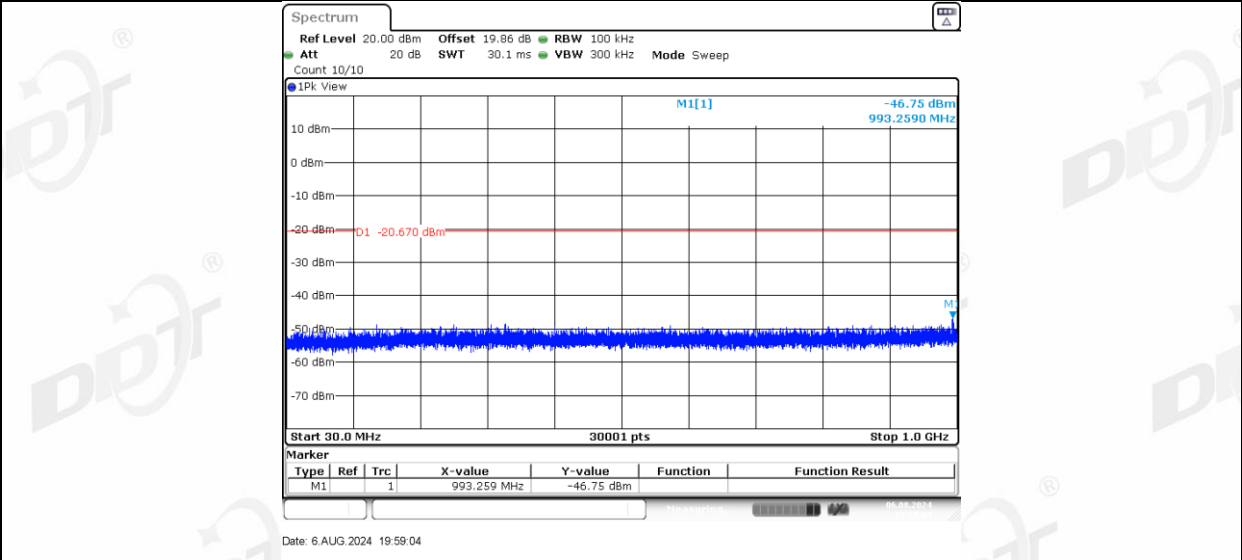
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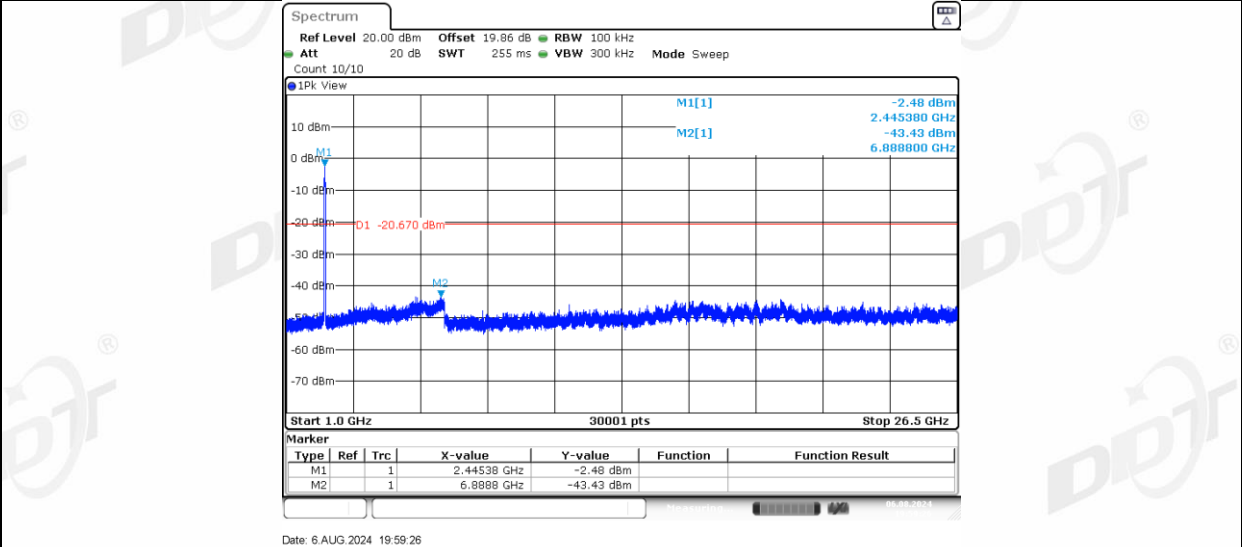
11AX40MIMO_Ant-1_2452_0~Reference



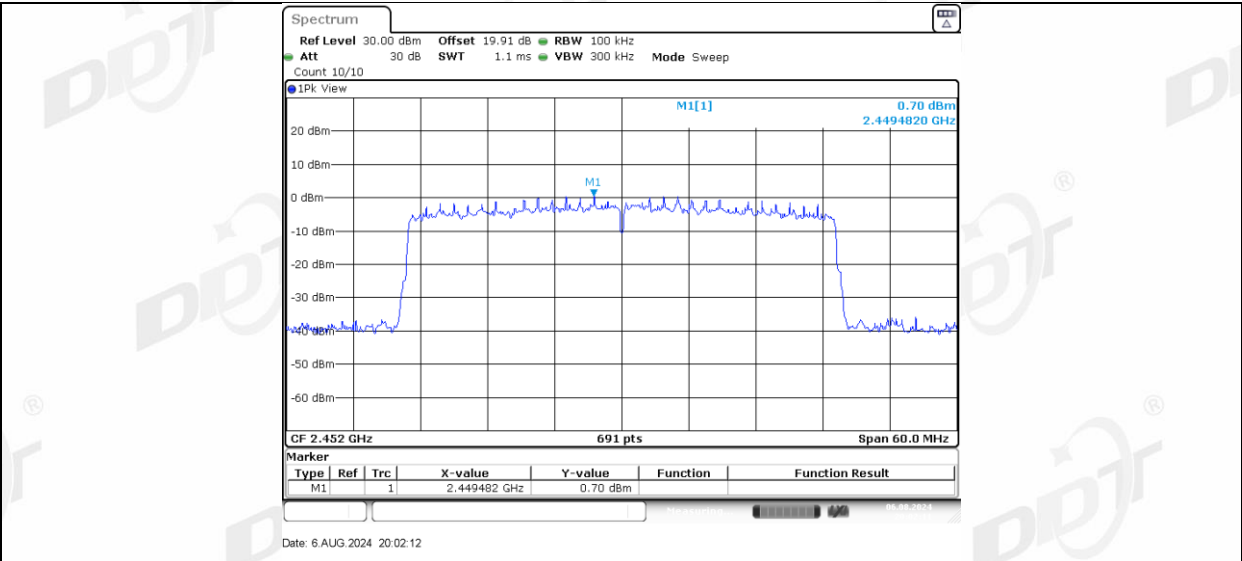
11AX40MIMO_Ant-1_2452_30~1000



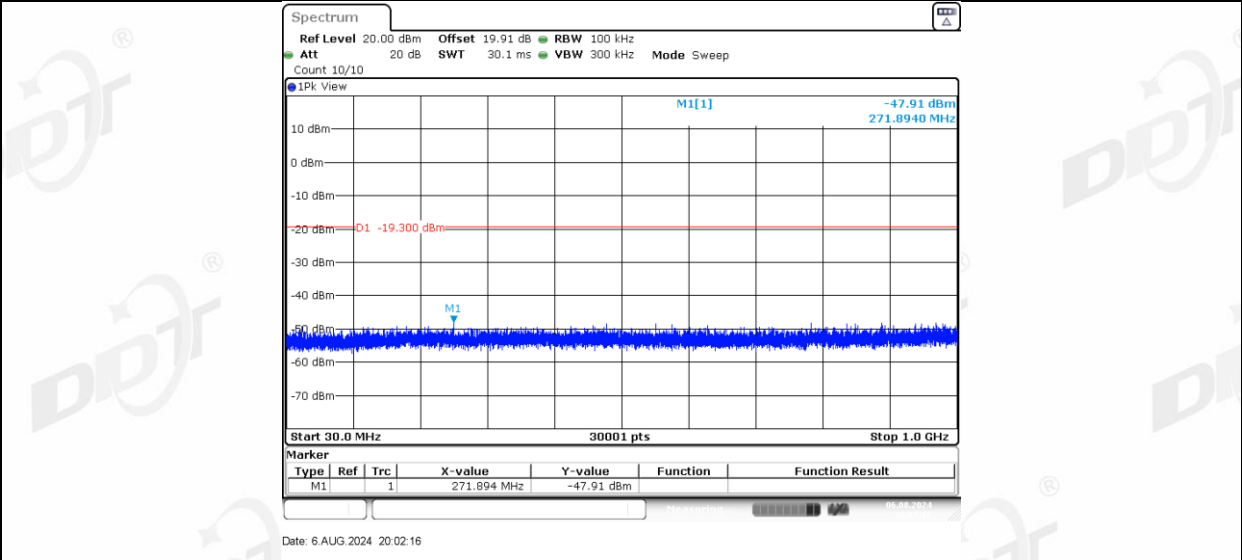
11AX40MIMO_Ant-1_2452_1000~26500



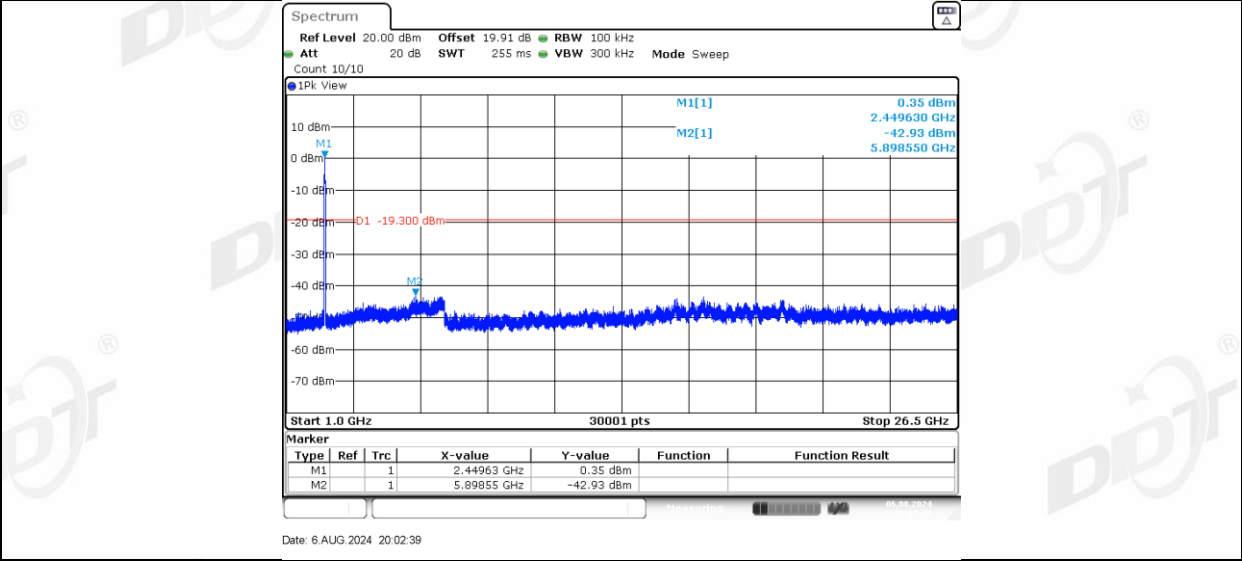
11AX40MIMO_Ant-3_2452_0~Reference



11AX40MIMO_Ant-3_2452_30~1000

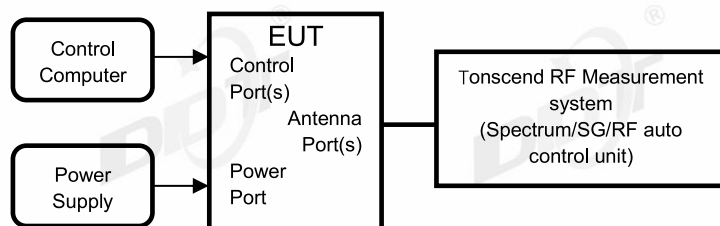


11AX40MIMO_Ant-3_2452_1000~26500



10. Duty Cycle

10.1. Block diagram of test setup



10.2. Limit

Just for Report.

10.3. Test procedure

- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.
set the Spectrum Analyzer as below:
 - Centre Frequency: The centre frequency of the middle hopping channel.
 - Resolution BW: 10 MHz.
 - Video BW: 10 MHz.
 - Span: Zero span.
 - Detector: Peak.
 - Trace Mode: Clear Write.
 - Sweep: Video Trigger
- (2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.
- (3) Calculate dwell time follow below formula:
Duty cycle= Pulse's on time / Burst cycle

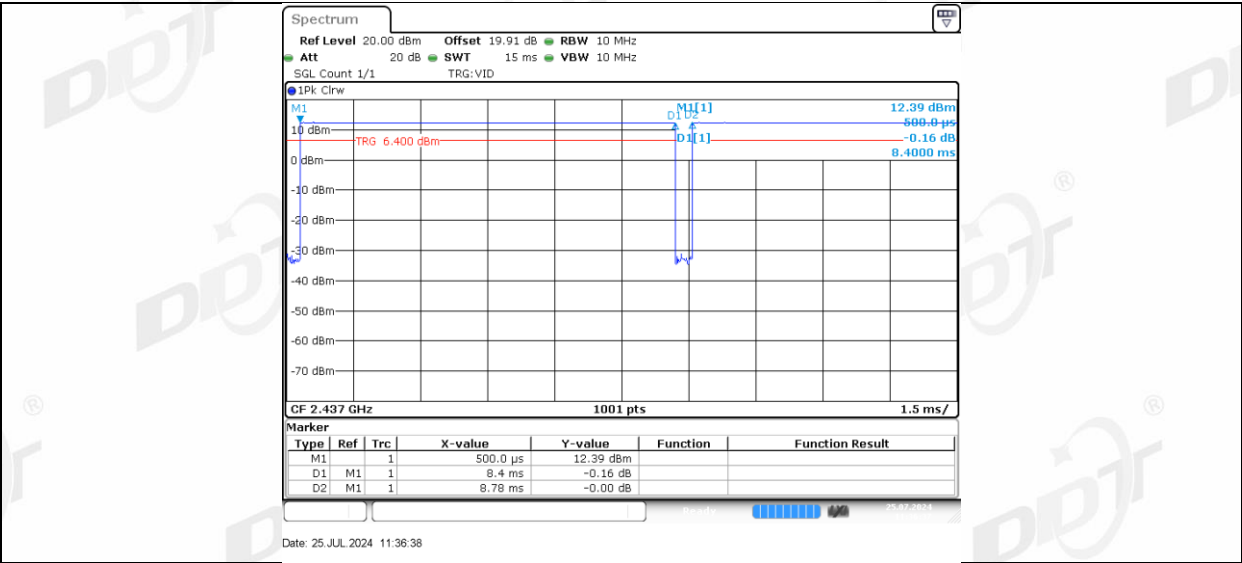
10.4. Test result

Test Engineer:	Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	24.5℃,39.8%RH	Test Date:	2024.07.19-2024.08.21
Test Power Supply:	DC 3.3V	Sample Number:	S24052405-002

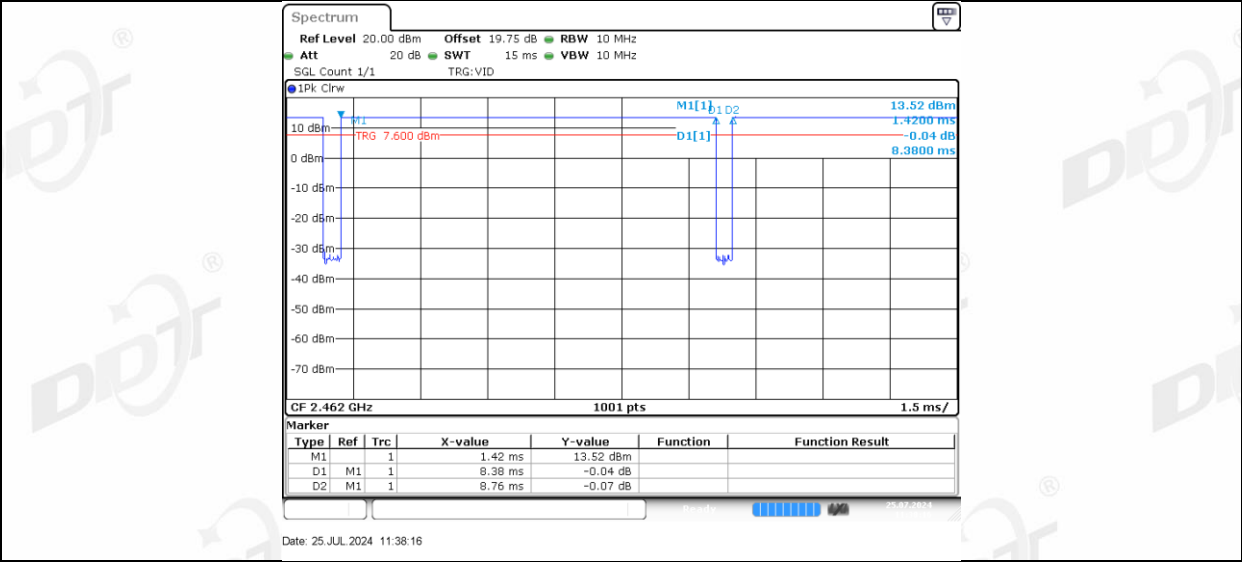
Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B-CDD	Ant-1	2412	8.39	8.78	95.56
	Ant-3	2412	8.39	8.76	95.78
	Ant-1	2437	8.40	8.76	95.89
	Ant-3	2437	8.40	8.78	95.67
	Ant-1	2462	8.38	8.76	95.66
	Ant-3	2462	8.39	8.76	95.78
11G-CDD	Ant-1	2412	1.39	1.78	78.09
	Ant-3	2412	1.40	1.77	79.10
	Ant-1	2437	1.40	1.76	79.55
	Ant-3	2437	1.40	1.78	78.65
	Ant-1	2462	1.40	1.78	78.65
	Ant-3	2462	1.39	1.78	78.09
11N20MIMO	Ant-1	2412	0.67	1.04	64.42
	Ant-3	2412	0.67	1.04	64.42
	Ant-1	2437	0.68	1.07	63.55
	Ant-3	2437	0.67	1.04	64.42
	Ant-1	2462	0.67	1.06	63.21
	Ant-3	2462	0.67	1.07	62.62
11N40MIMO	Ant-1	2422	0.35	0.74	47.30
	Ant-3	2422	0.35	0.74	47.30
	Ant-1	2437	0.35	0.76	46.05
	Ant-3	2437	0.35	0.74	47.30
	Ant-1	2452	0.34	0.74	45.95
	Ant-3	2452	0.34	0.74	45.95
11AX20MIMO	Ant-1	2412	0.20	0.40	50.00
	Ant-3	2412	0.20	0.40	50.00
	Ant-1	2437	0.20	0.40	50.00
	Ant-3	2437	0.21	0.41	51.22
	Ant-1	2462	0.56	0.95	58.95
	Ant-3	2462	0.55	0.95	57.89
11AX40MIMO	Ant-1	2422	0.20	0.58	34.48
	Ant-3	2422	0.20	0.58	34.48
	Ant-1	2437	0.21	0.58	36.21
	Ant-3	2437	0.20	0.58	34.48
	Ant-1	2452	0.20	0.58	34.48
	Ant-3	2452	0.20	0.58	34.48

10.5. Test graphs

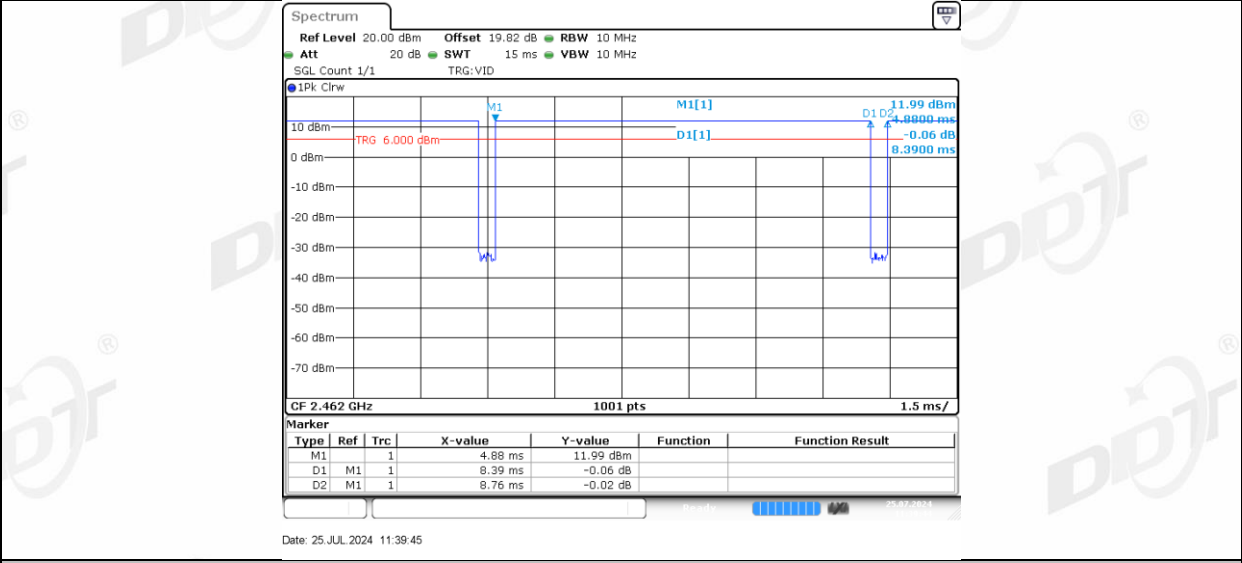




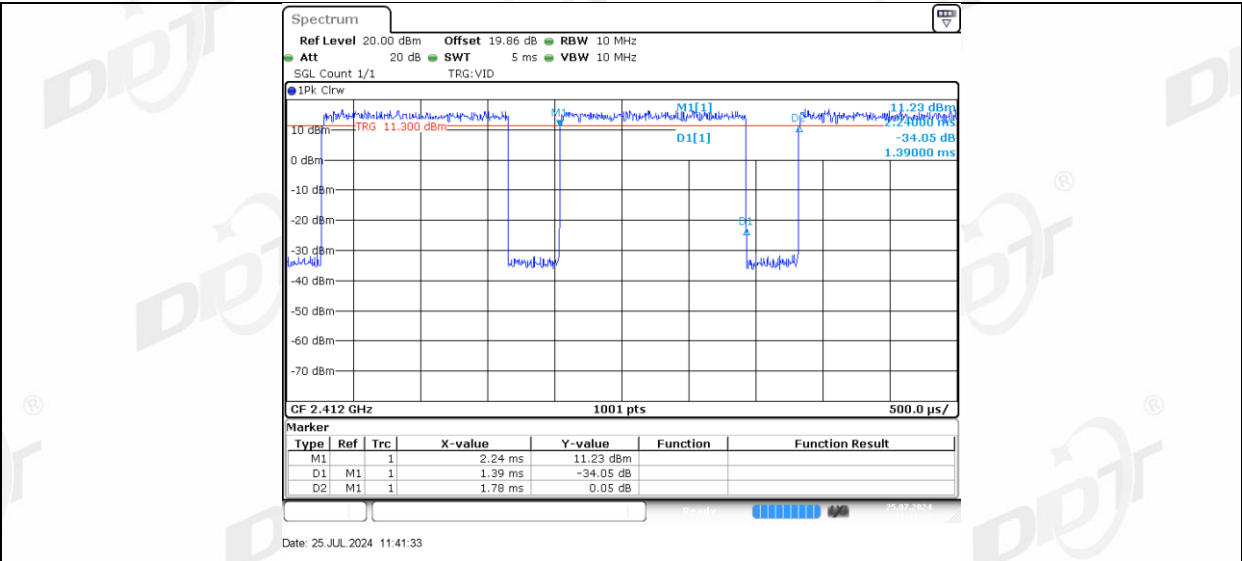
11B-CDD_Ant-1_2462



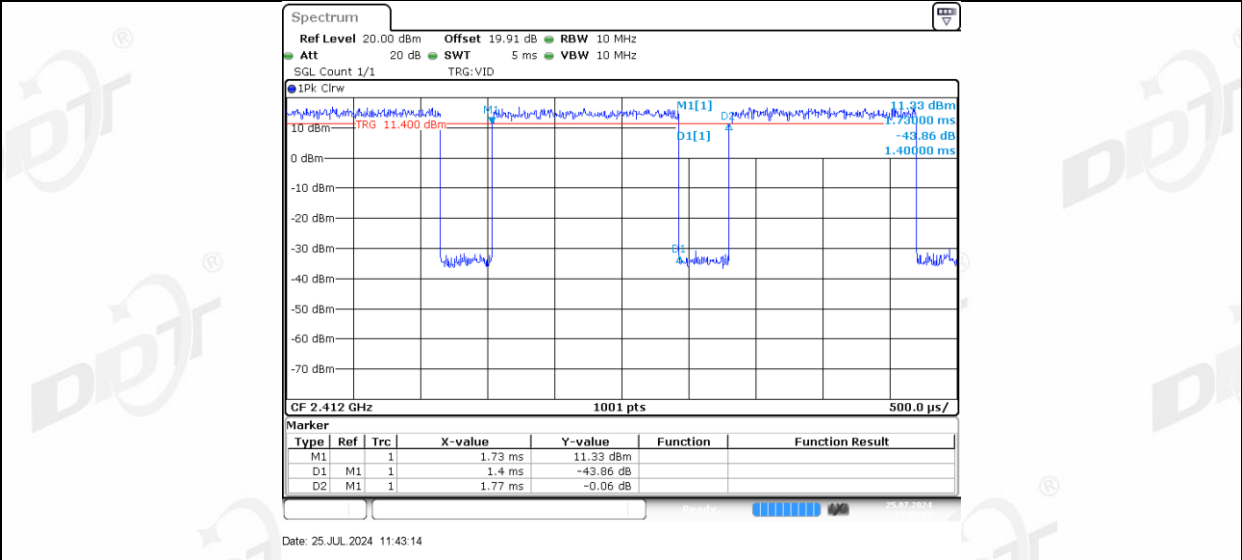
11B-CDD_Ant-3_2462



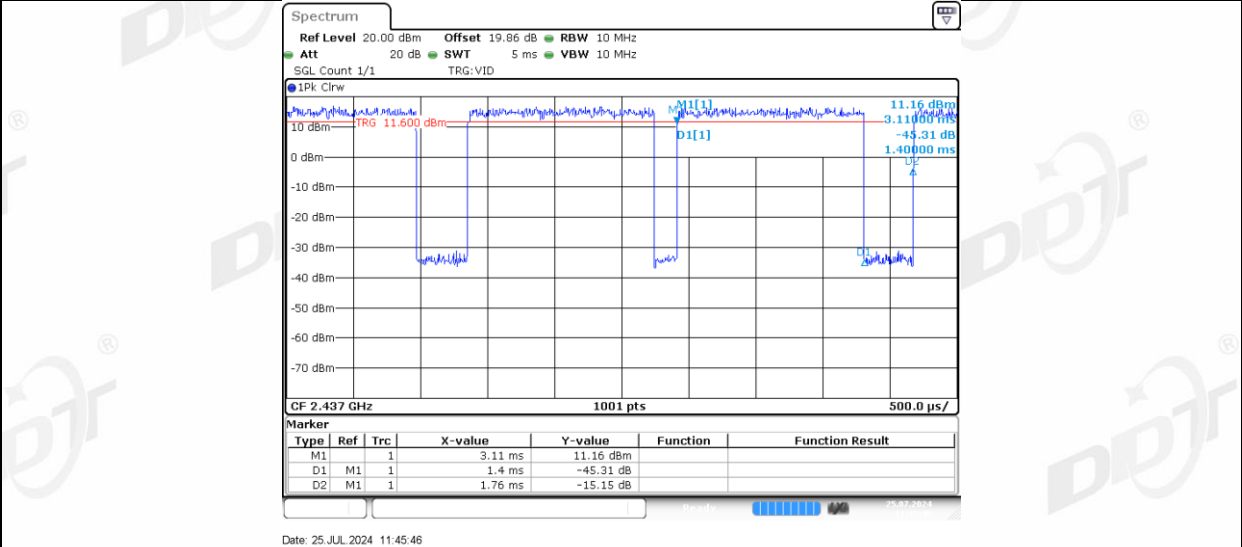
11G-CDD_Ant-1_2412



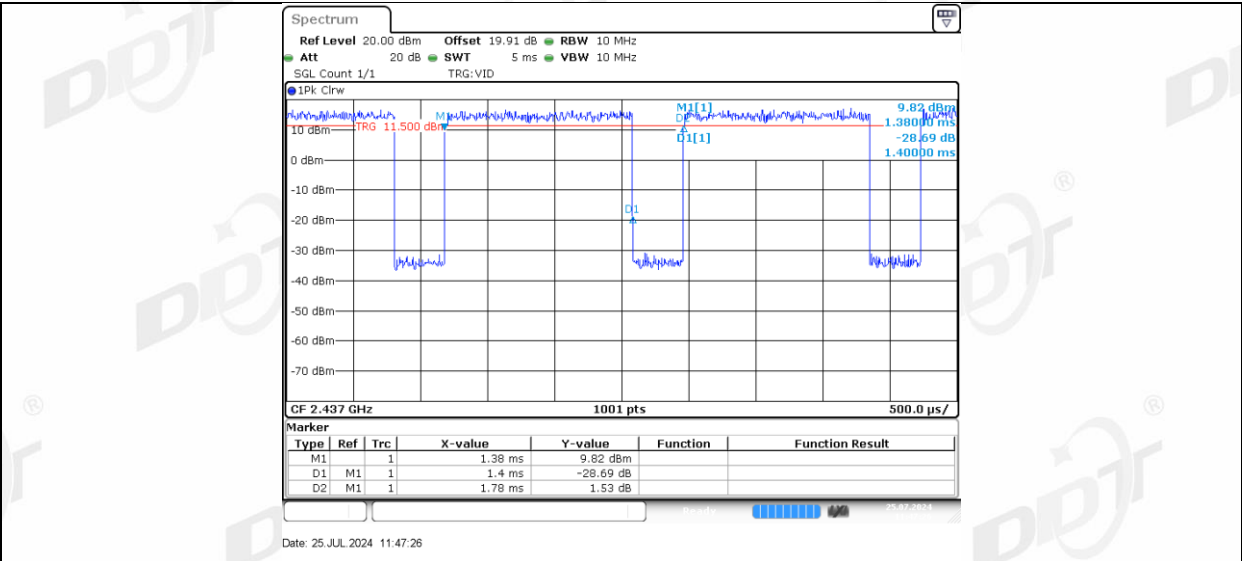
11G-CDD_Ant-3_2412



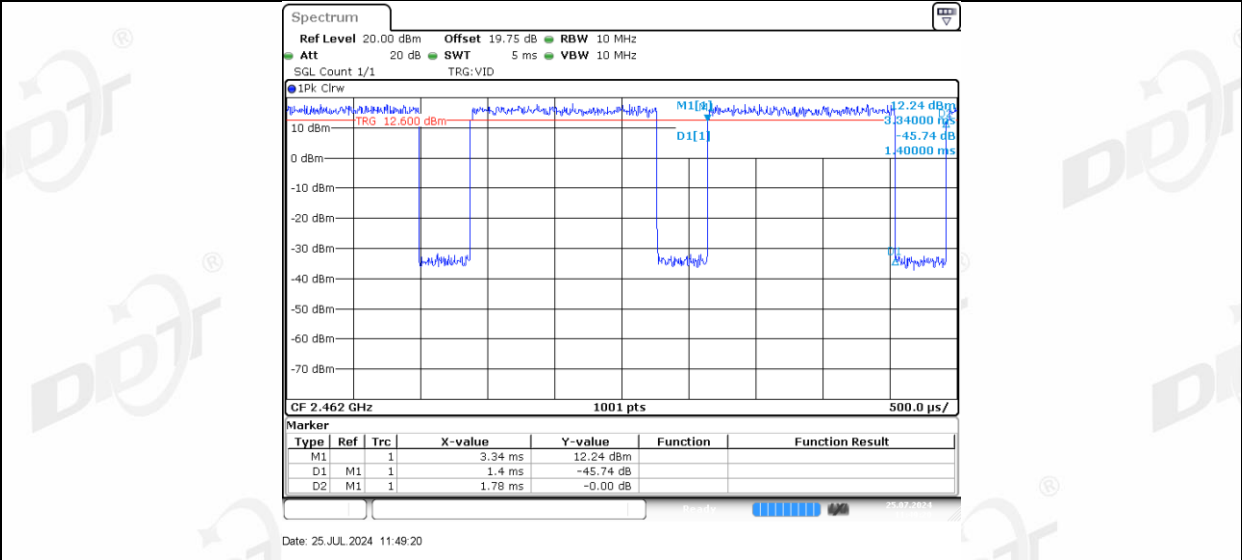
11G-CDD_Ant-1_2437



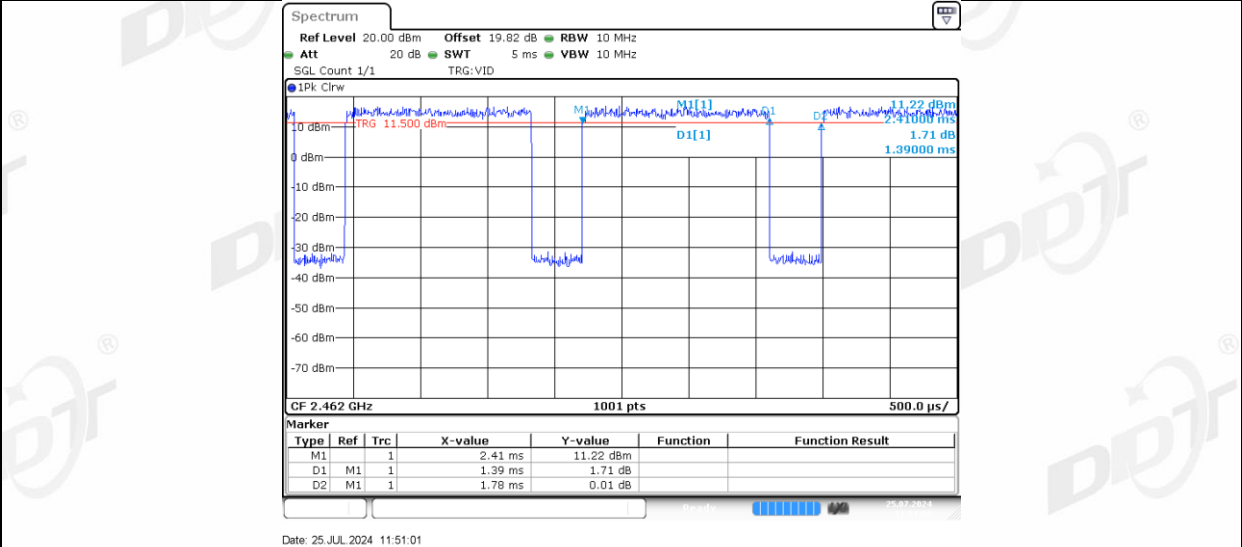
11G-CDD_Ant-3_2437



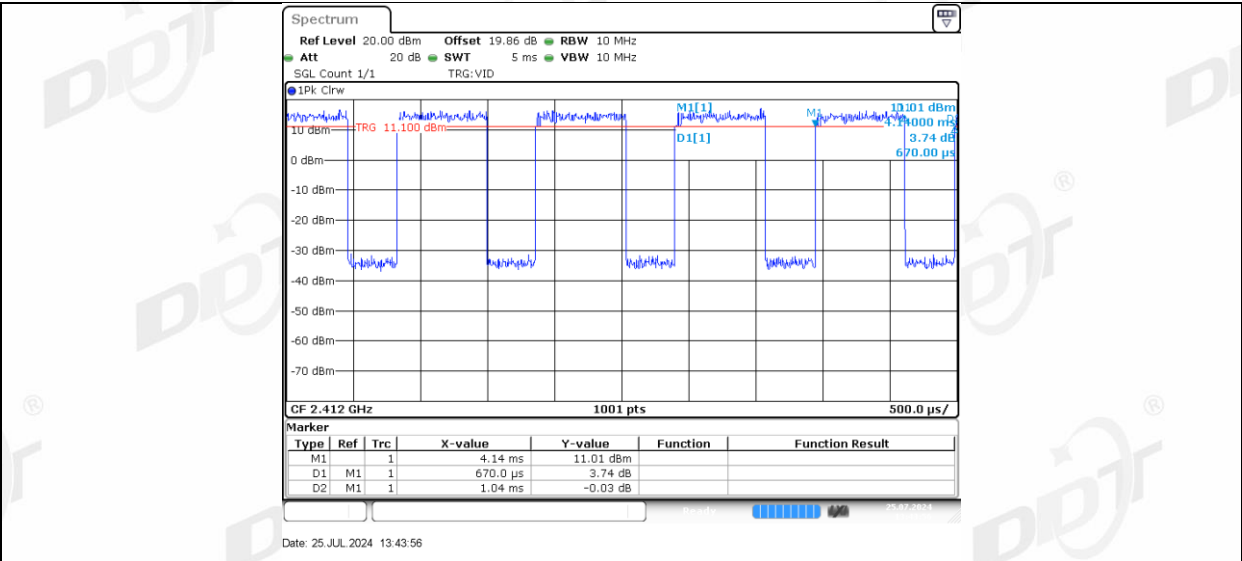
11G-CDD_Ant-1_2462



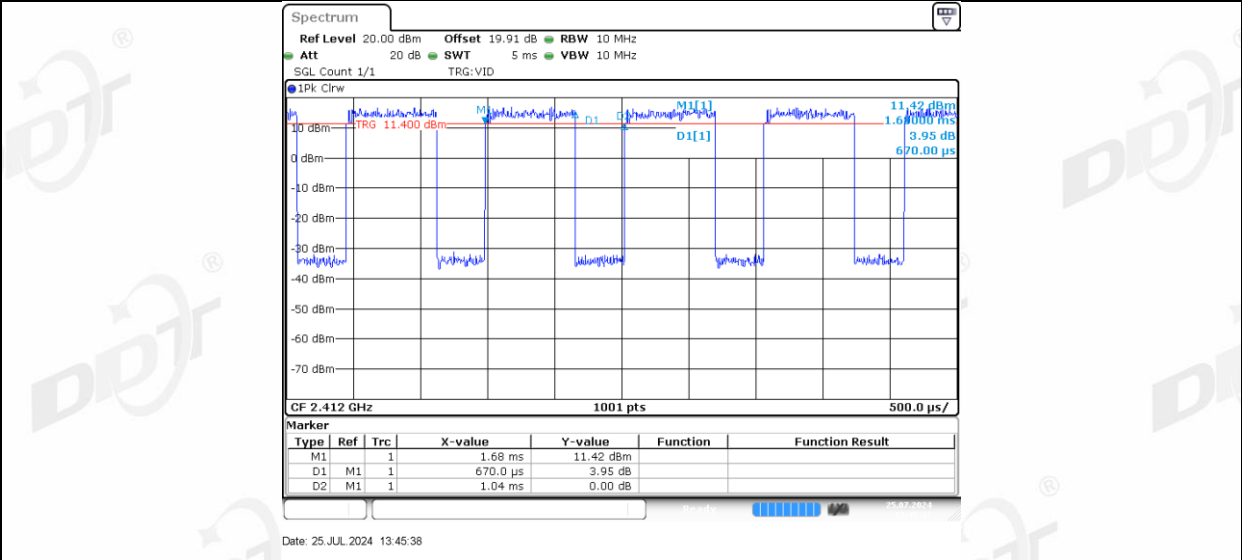
11G-CDD_Ant-3_2462



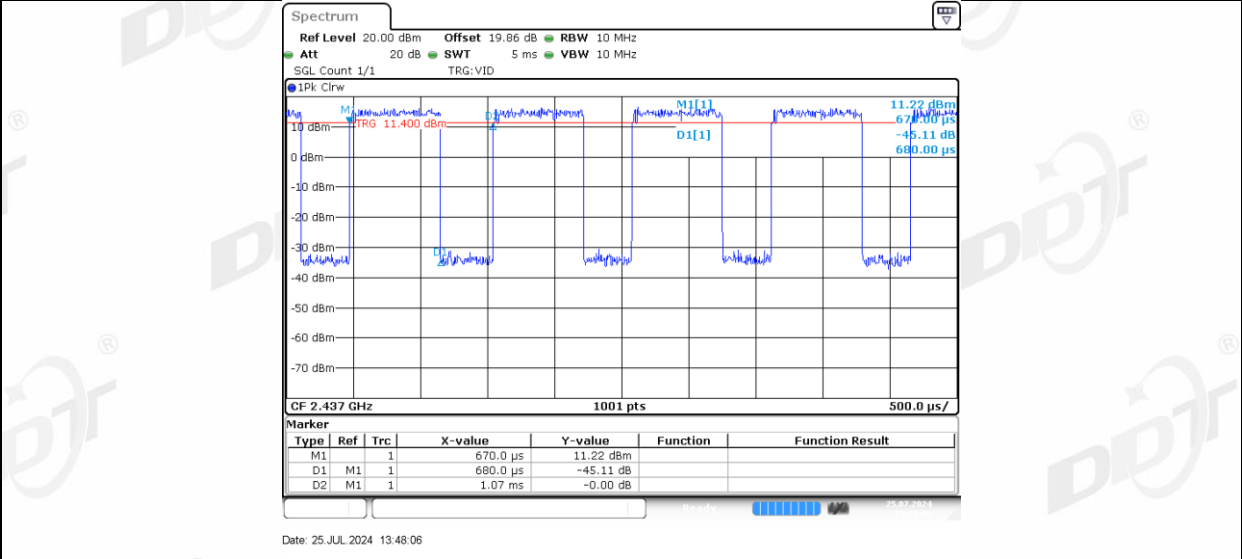
11N20MIMO_Ant-1_2412



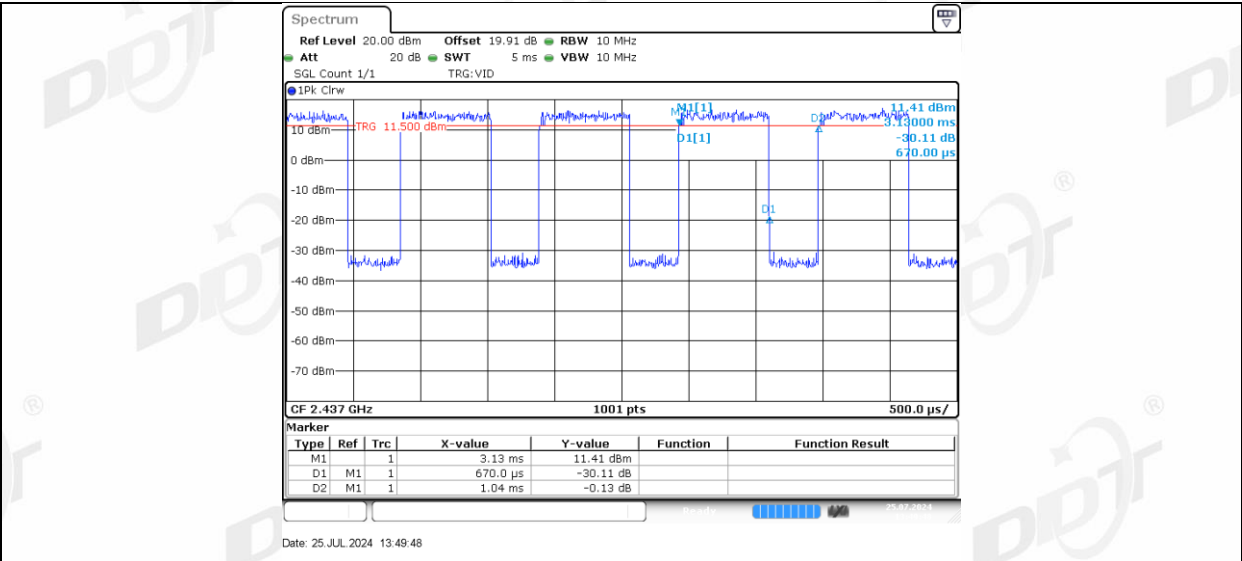
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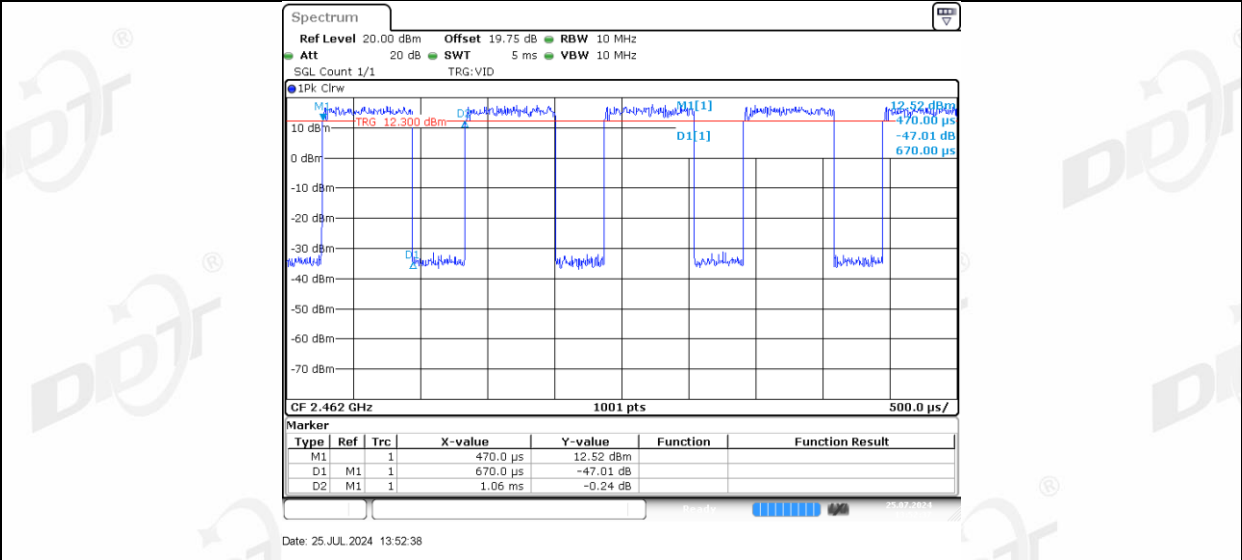
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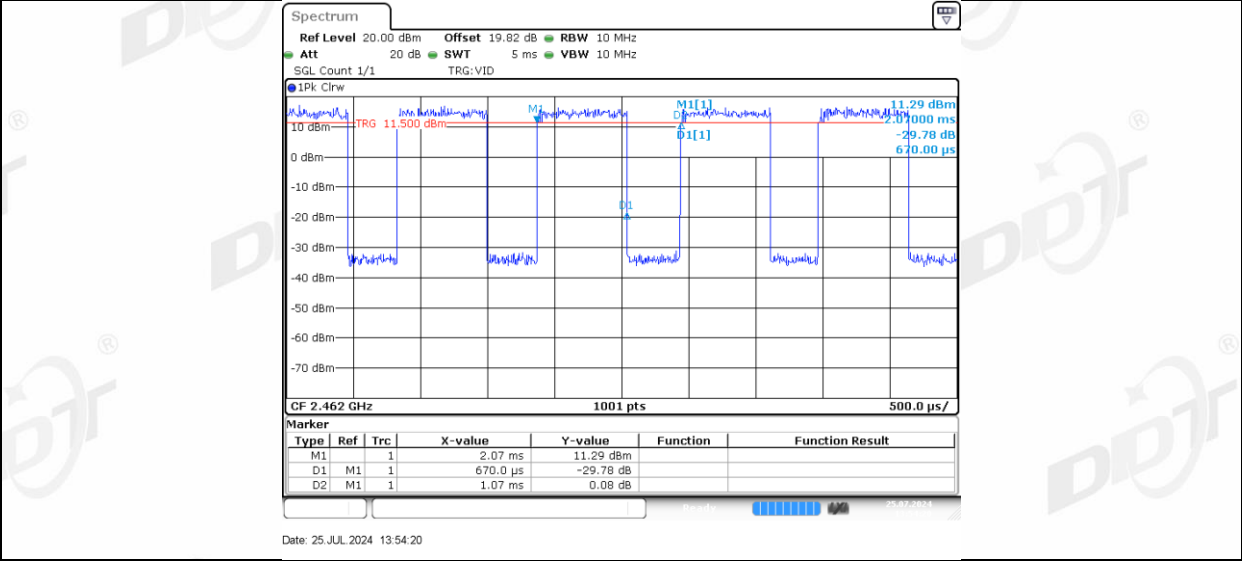
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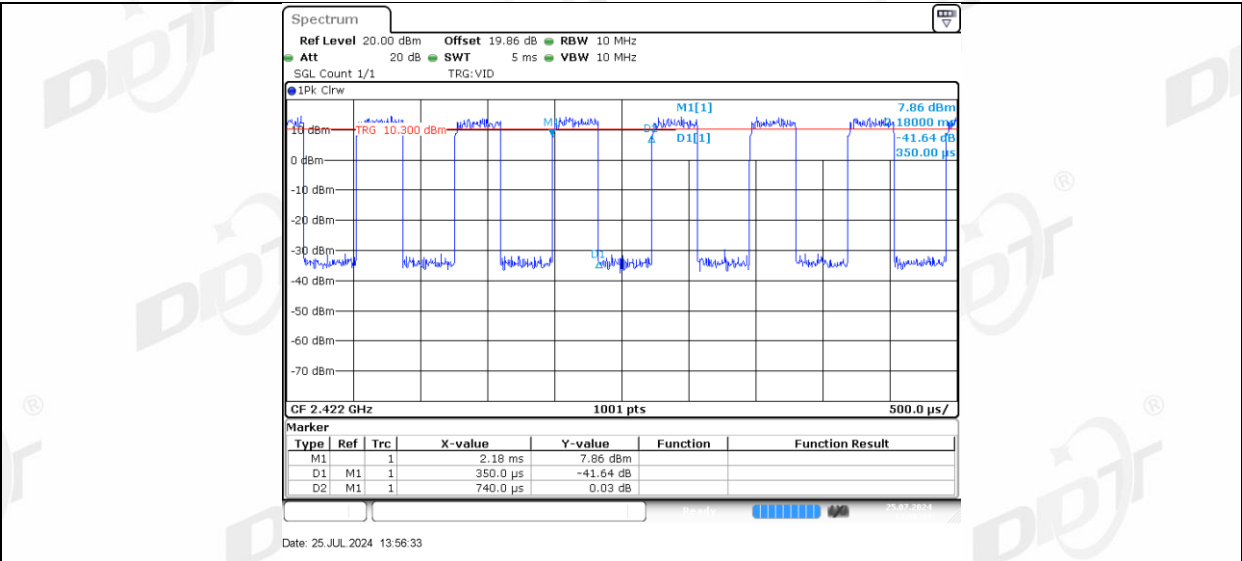
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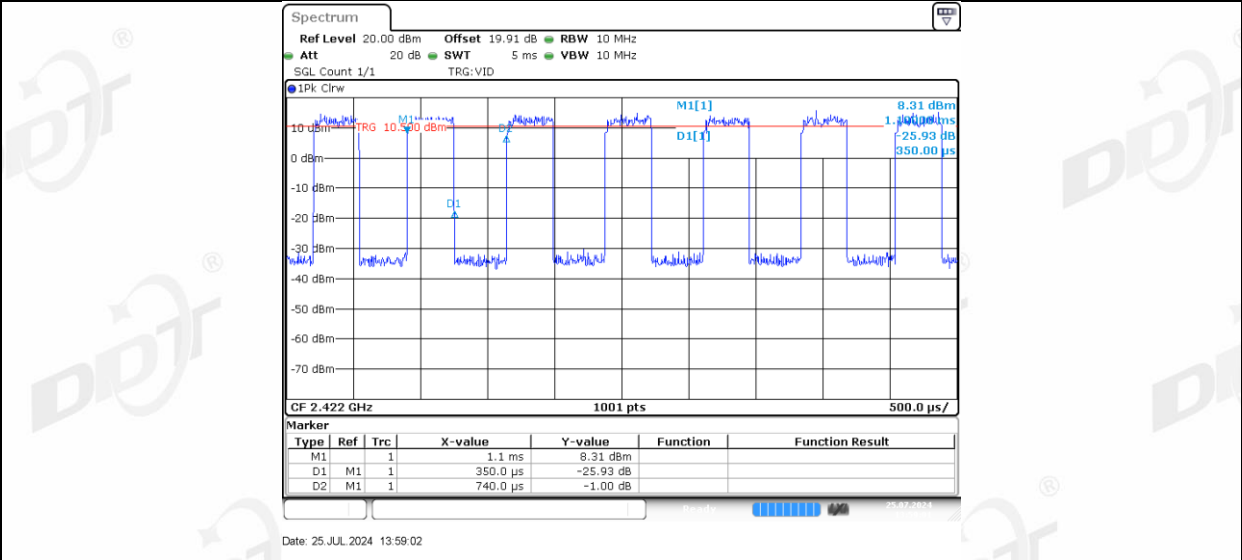
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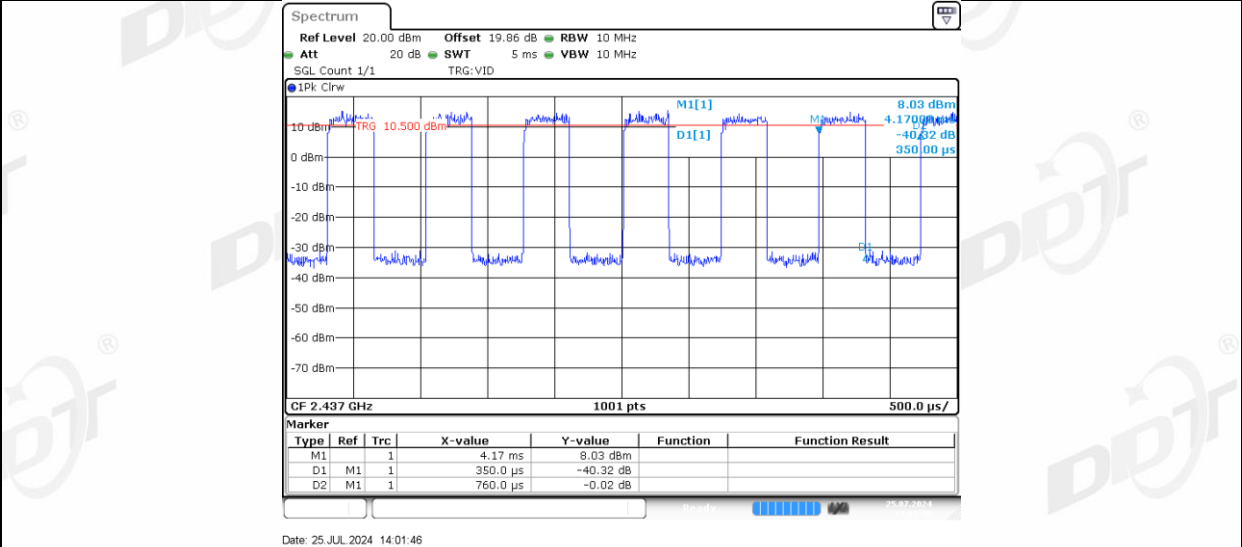
11N40MIMO_Ant-1_2422



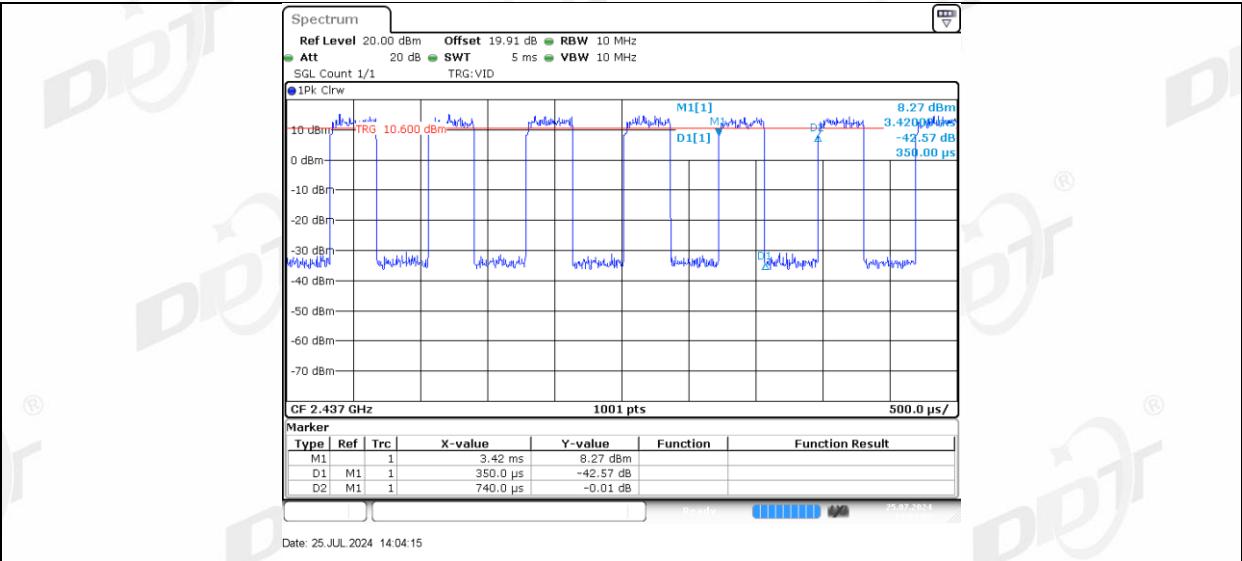
11N40MIMO_Ant-3_2422



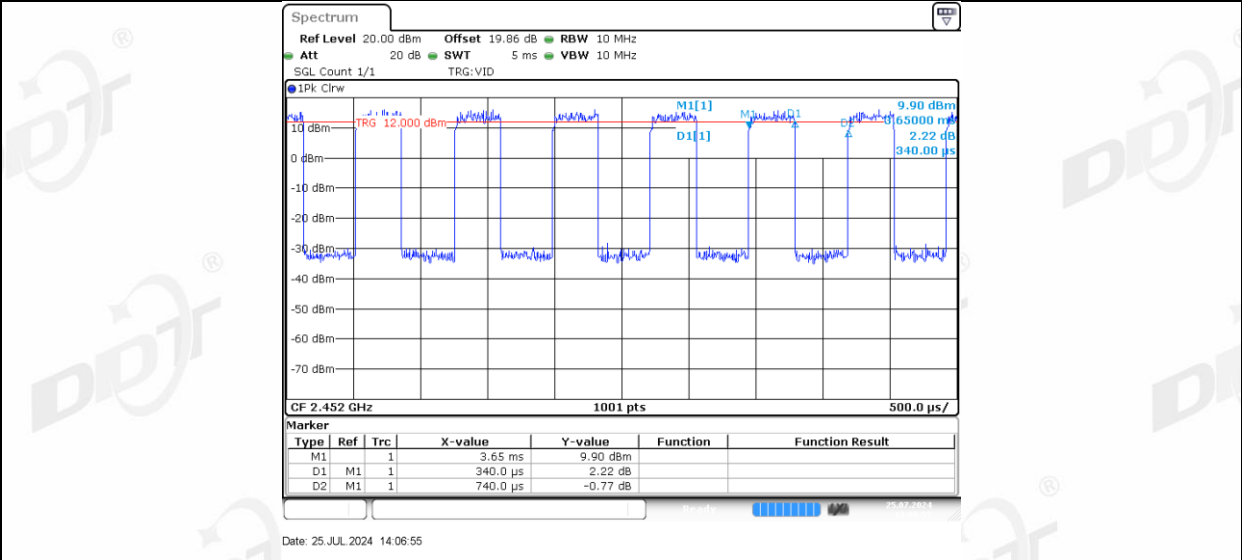
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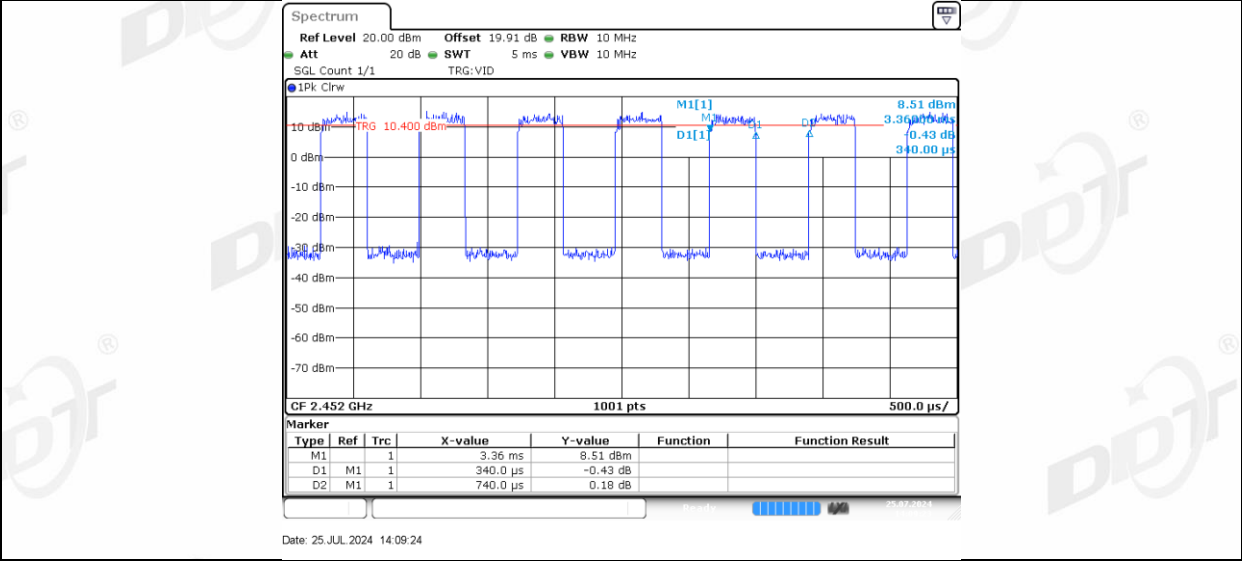
11N40MIMO_Ant-3_2437



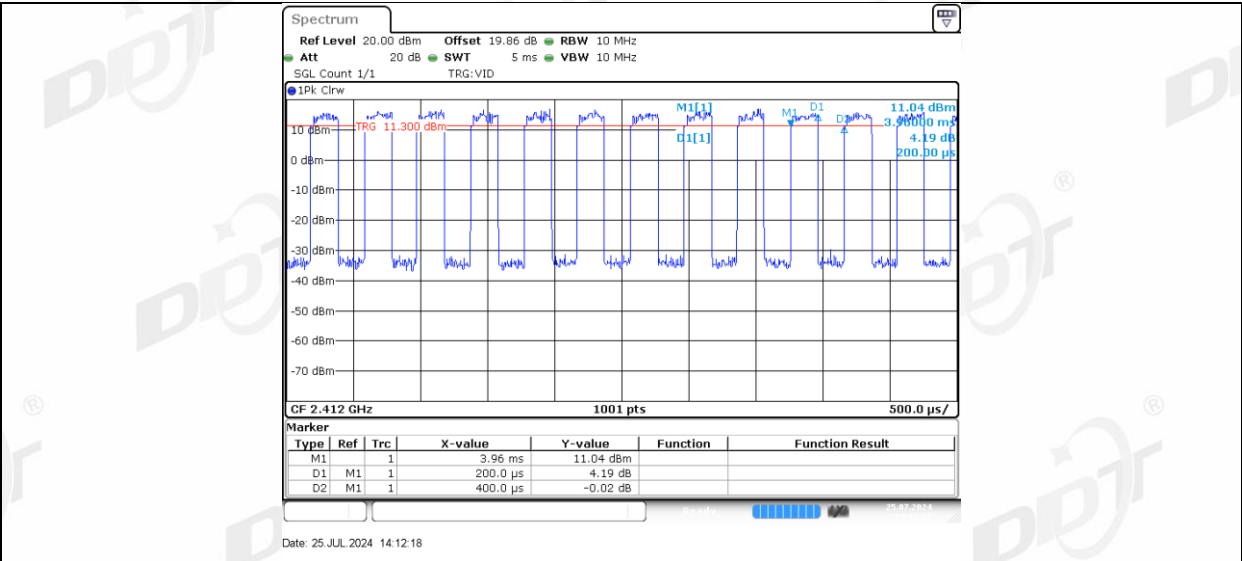
11N40MIMO_Ant-1_2452



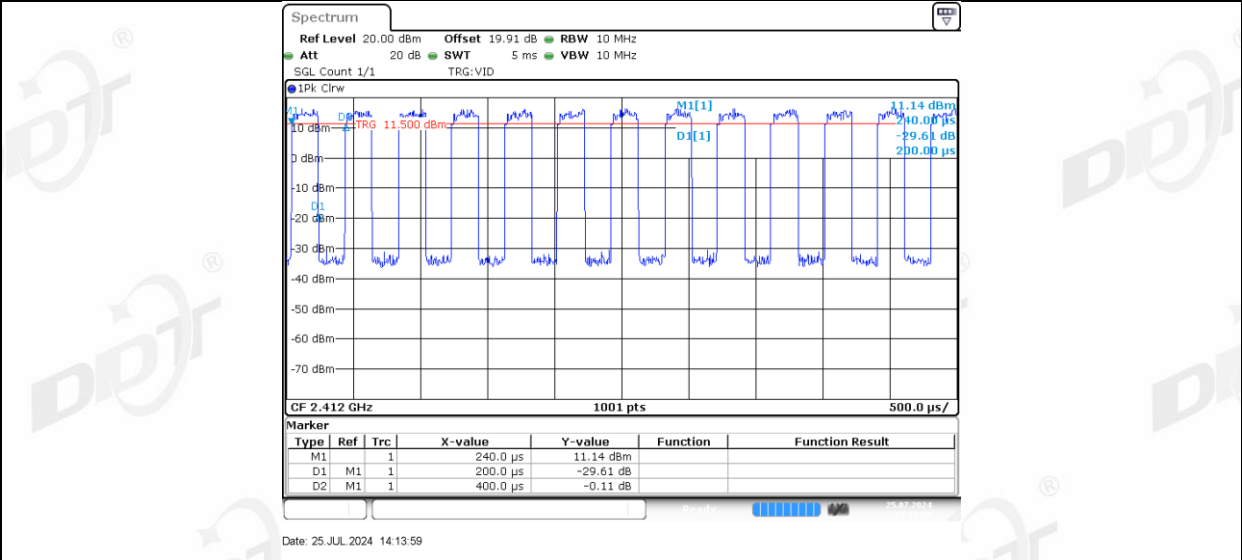
11N40MIMO_Ant-3_2452



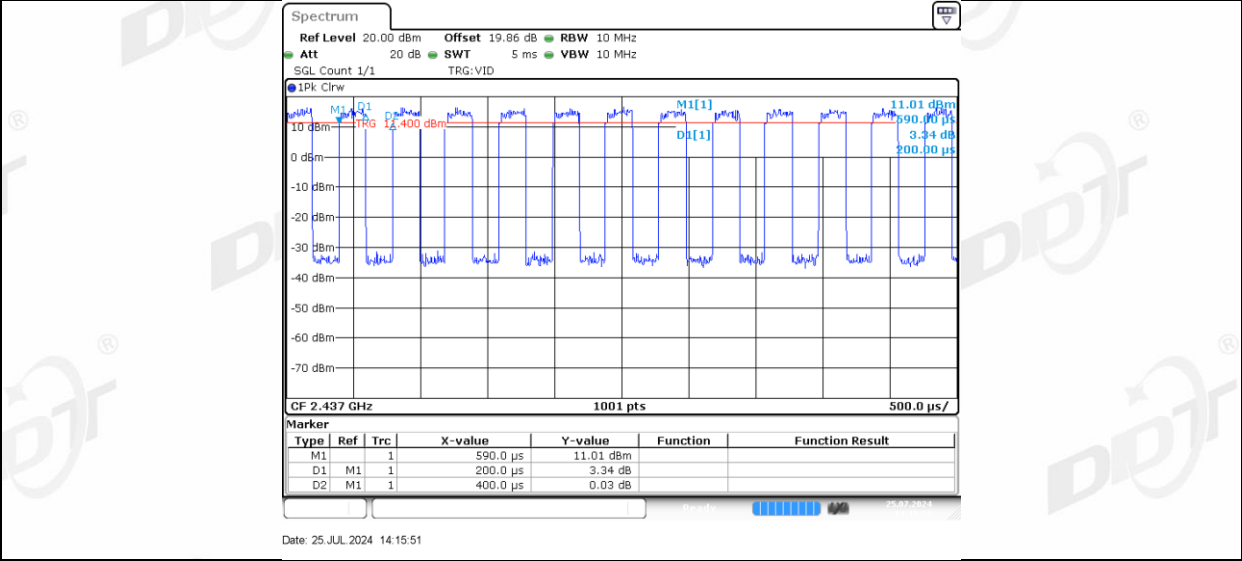
11AX20MIMO_Ant-1_2412



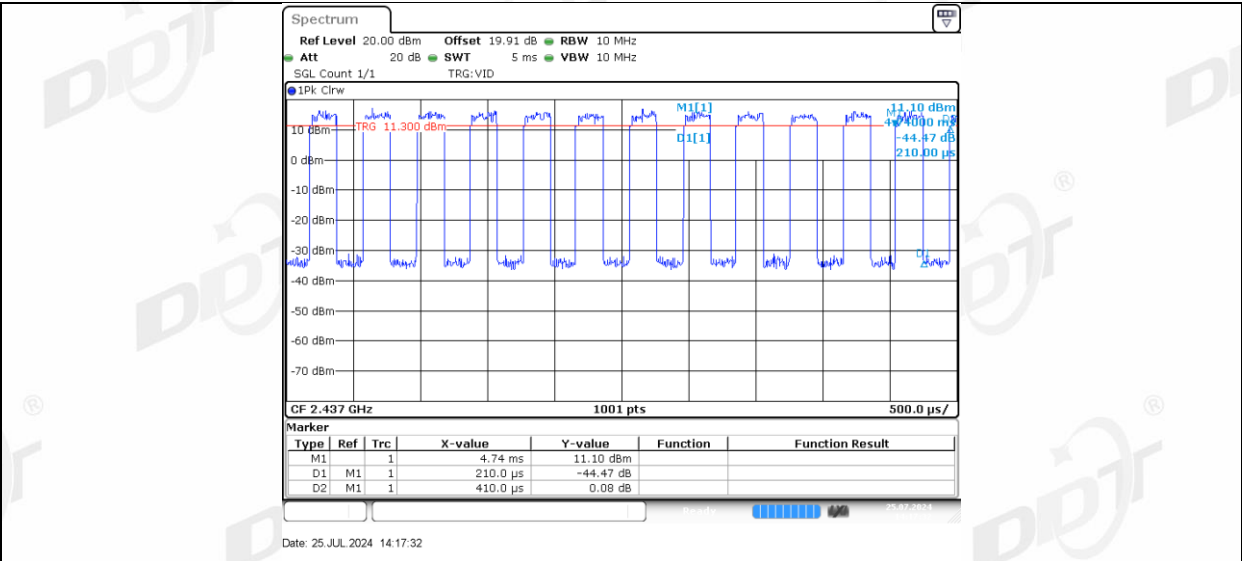
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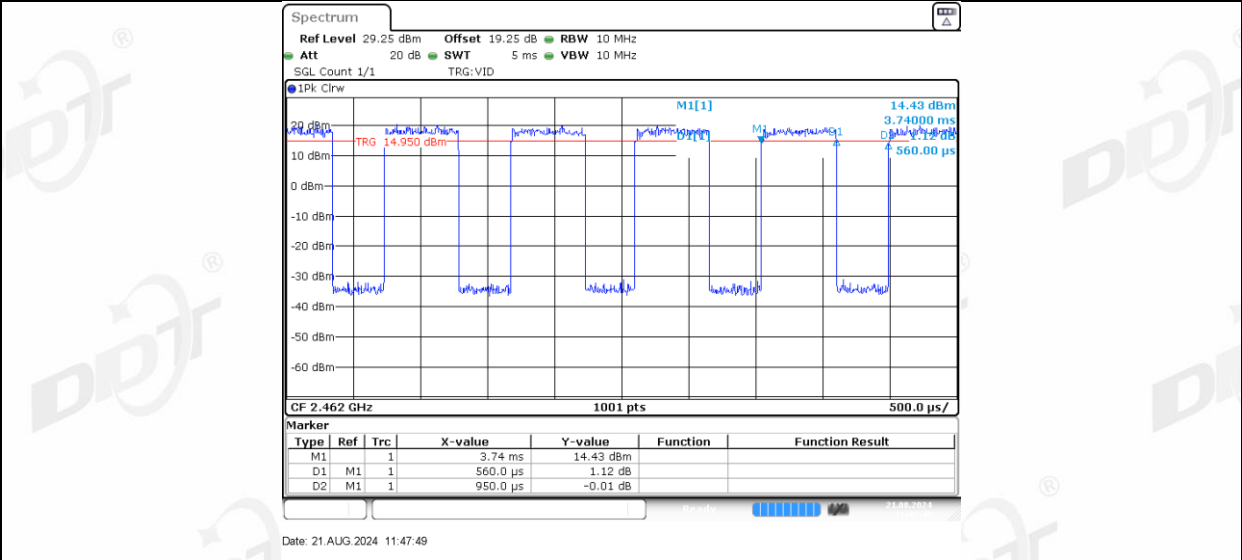
11AX20MIMO_Ant-1_2437



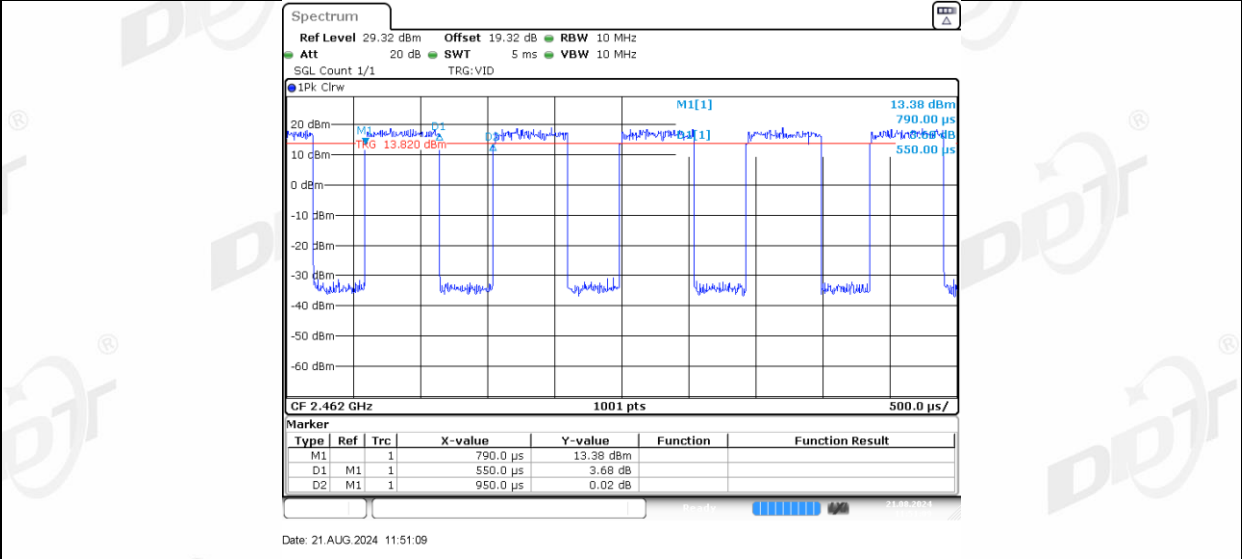
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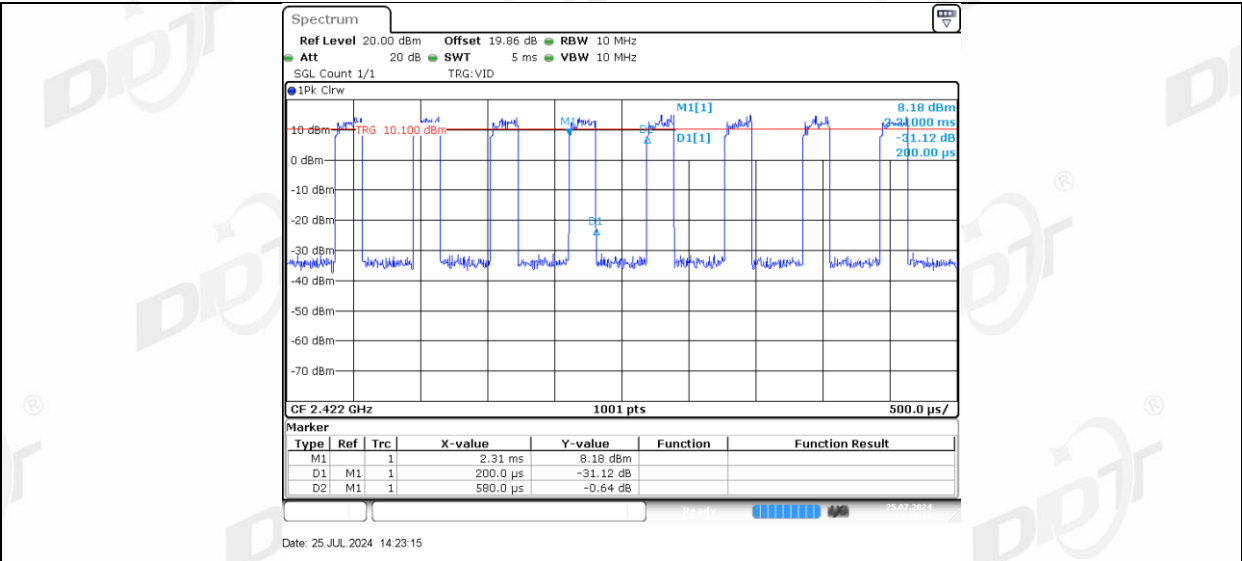
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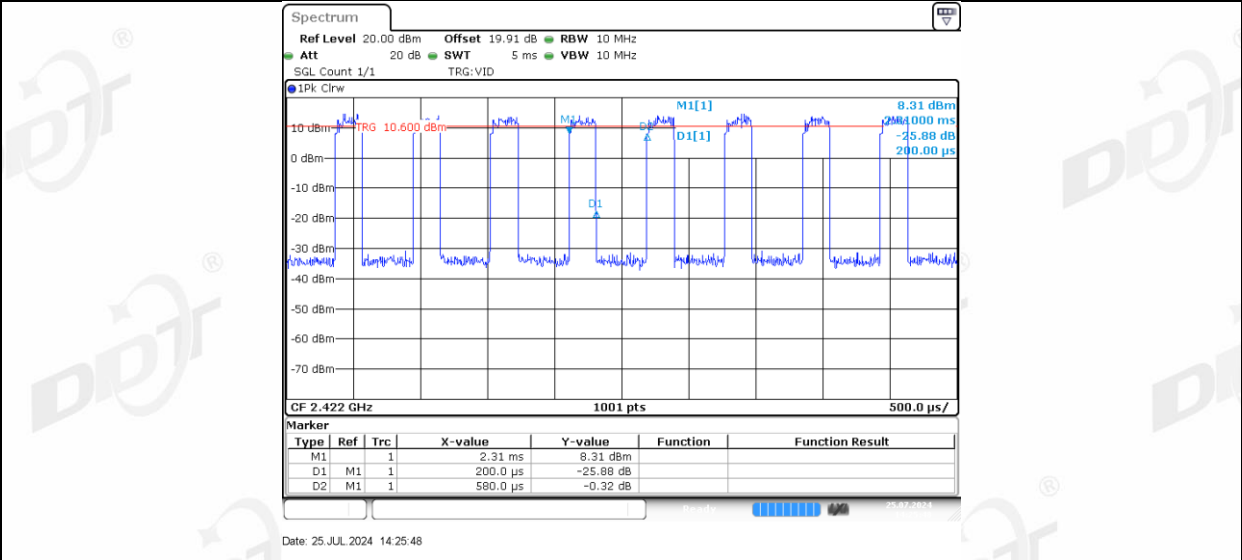
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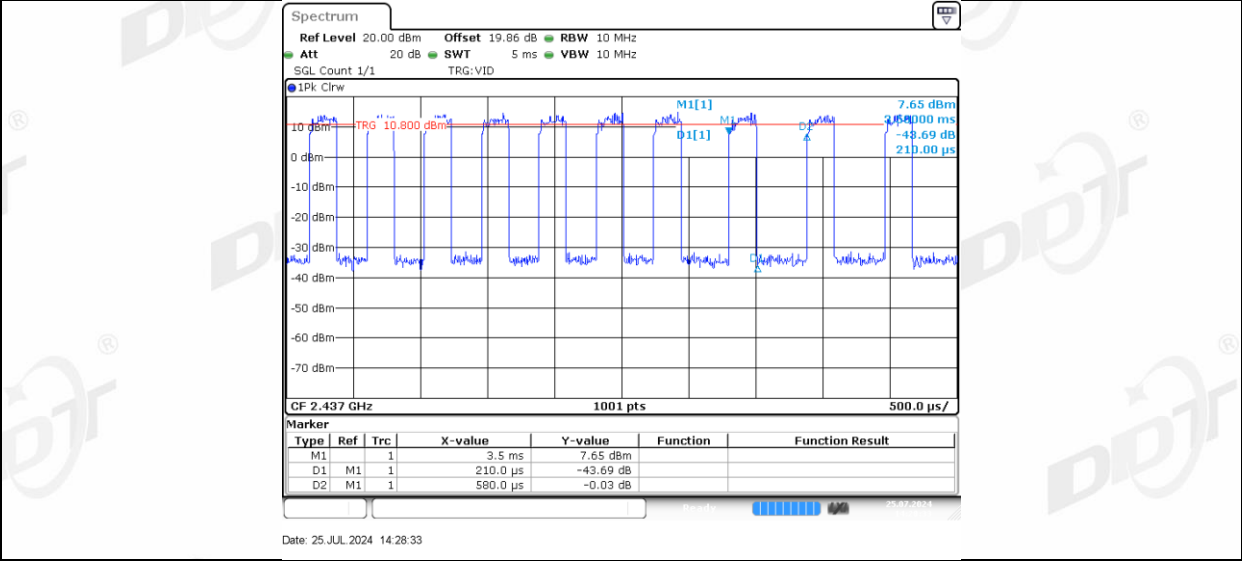
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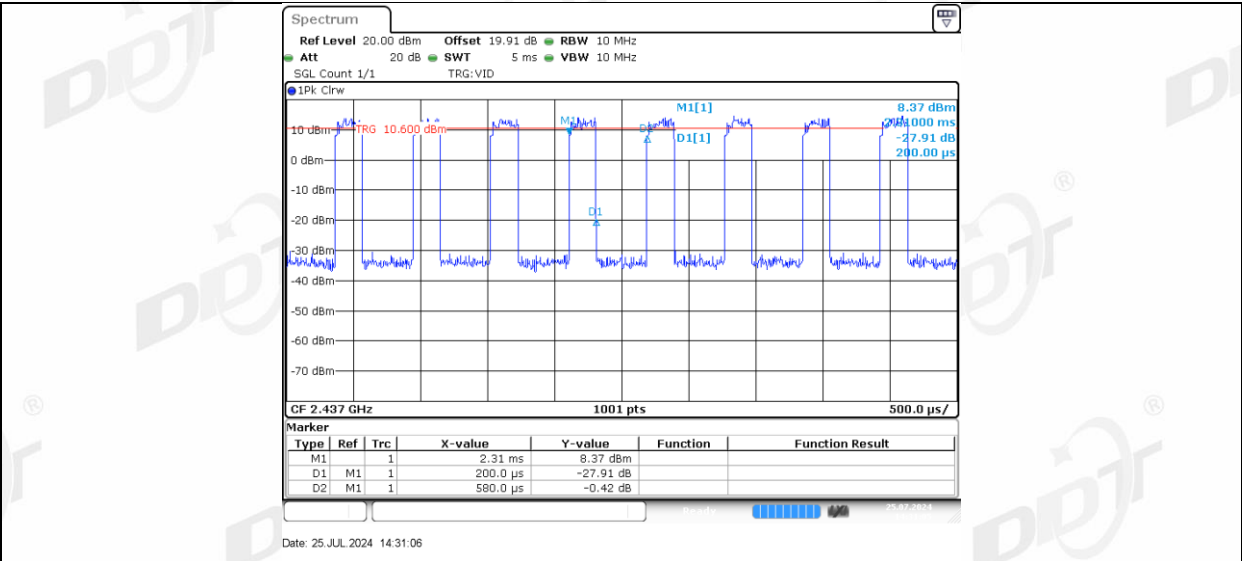
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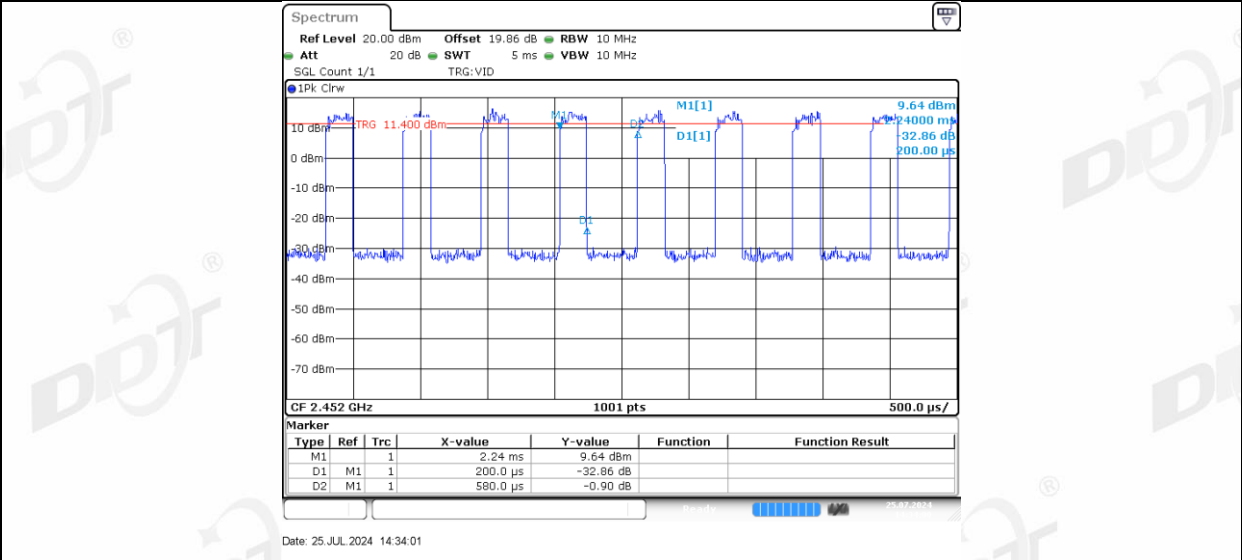
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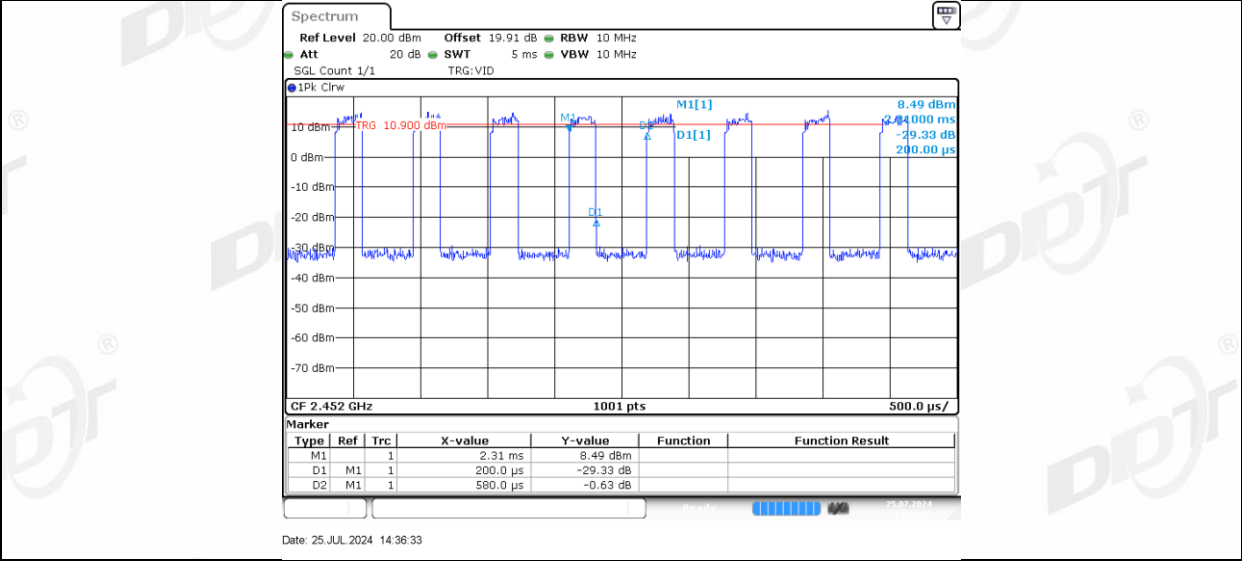
11AX40MIMO_Ant-3_2437



11AX40MIMO_Ant-1_2452



11AX40MIMO_Ant-3_2452



11. Antenna Requirements

11.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For intentional device, according to RSS-Gen issue 5 section 6.8.

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

11.2. Result

The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

12.Radiated Emission

12.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2025/07/11
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2025/03/31
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2025/03/31
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2025/03/31
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2025/04/22
Hochgewinn-Hornantenne	SCHWARZBEC K	BBHA 9120 D	DDT-ZC02129	2025/09/18
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2025/03/31
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2025/04/26
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2025/03/31
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2025/07/08
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2025/03/31
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2025/03/31
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/11
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2025/04/22
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2025/04/22
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2025/03/31

12.2. Block diagram of test setup

