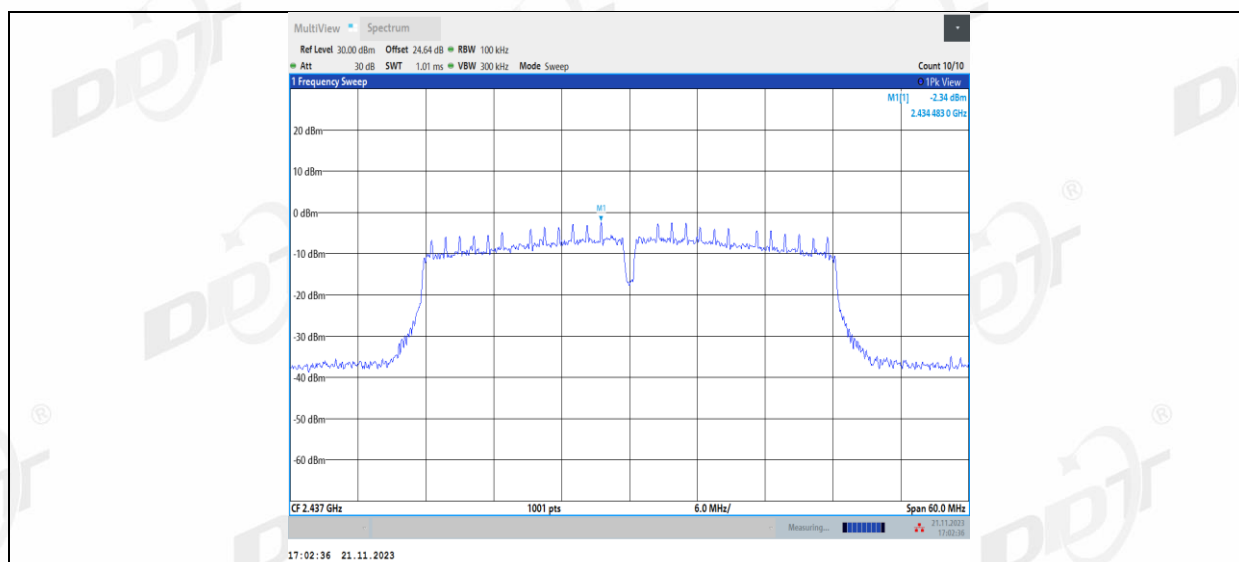
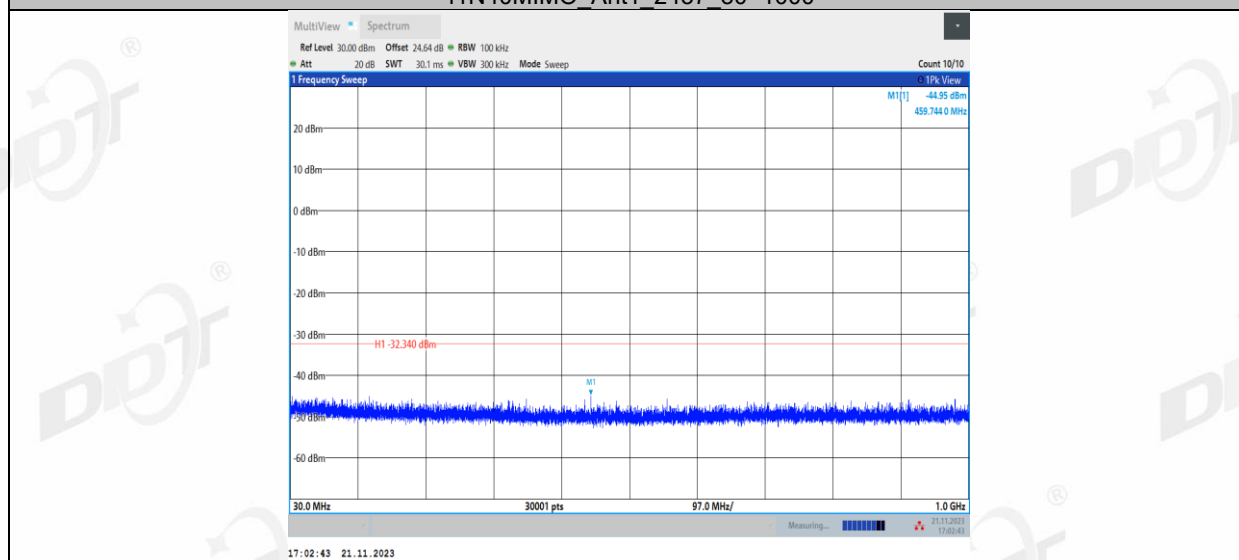
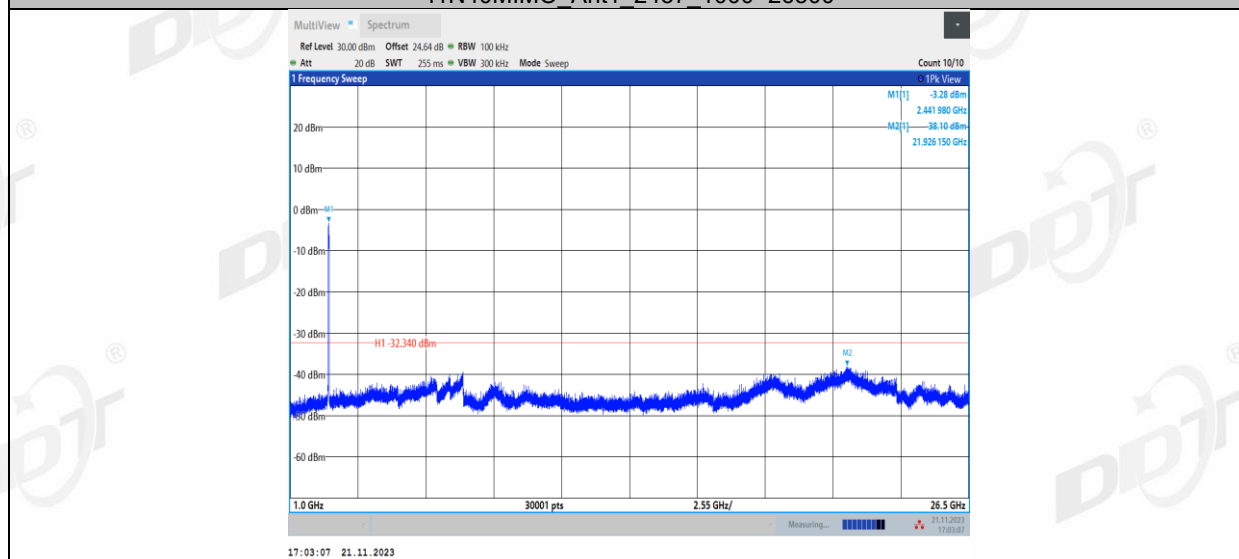




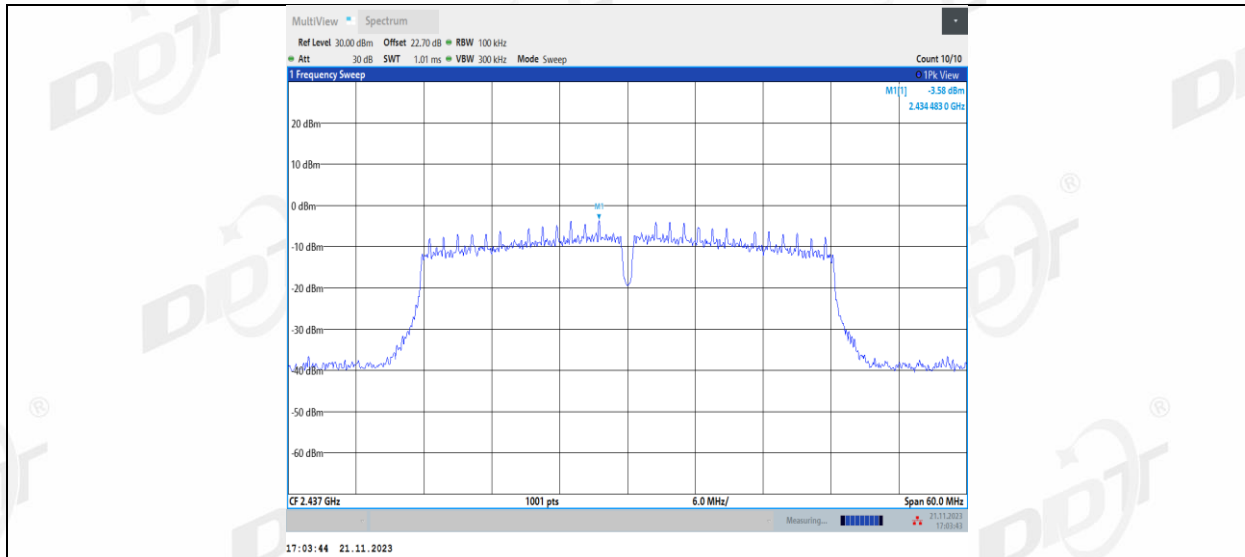
11N40MIMO_Ant1_2437_30~1000



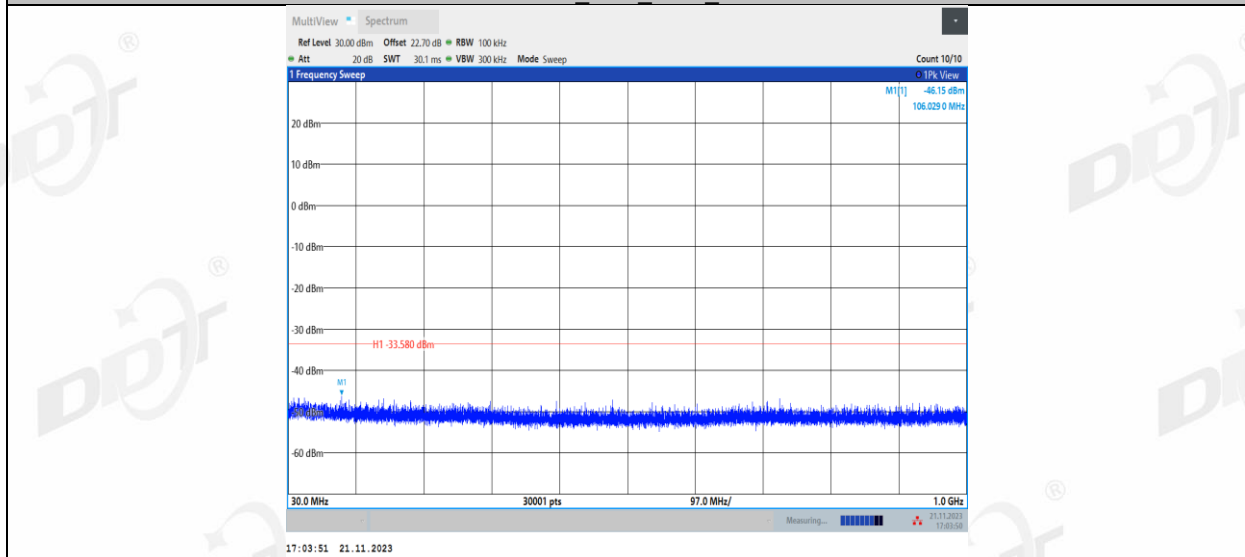
11N40MIMO_Ant1_2437_1000~26500



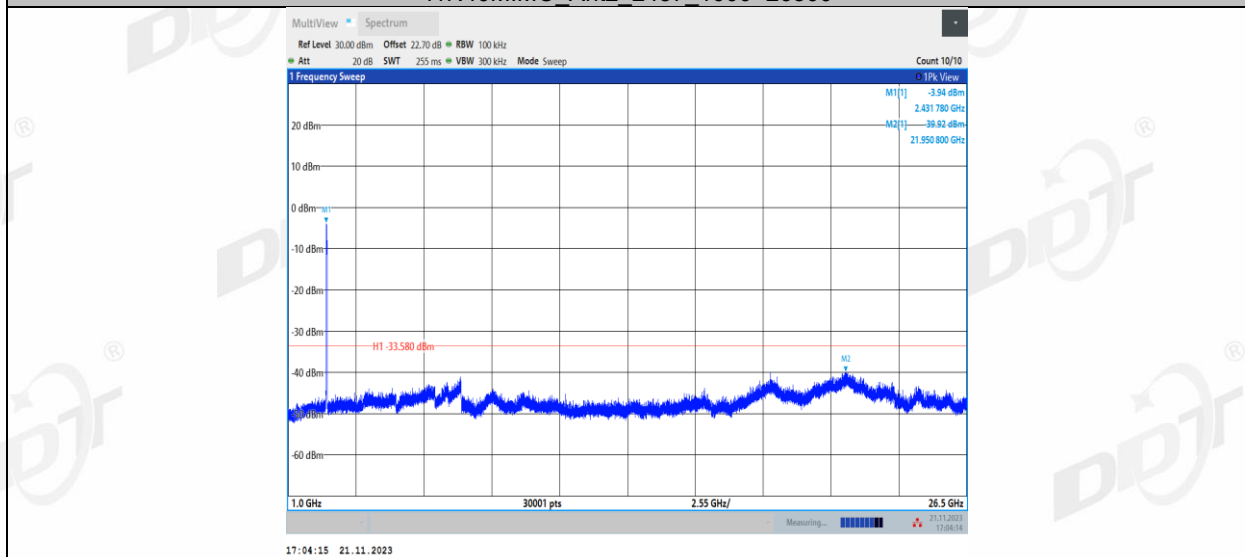
11N40MIMO_Ant2_2437_0~Reference



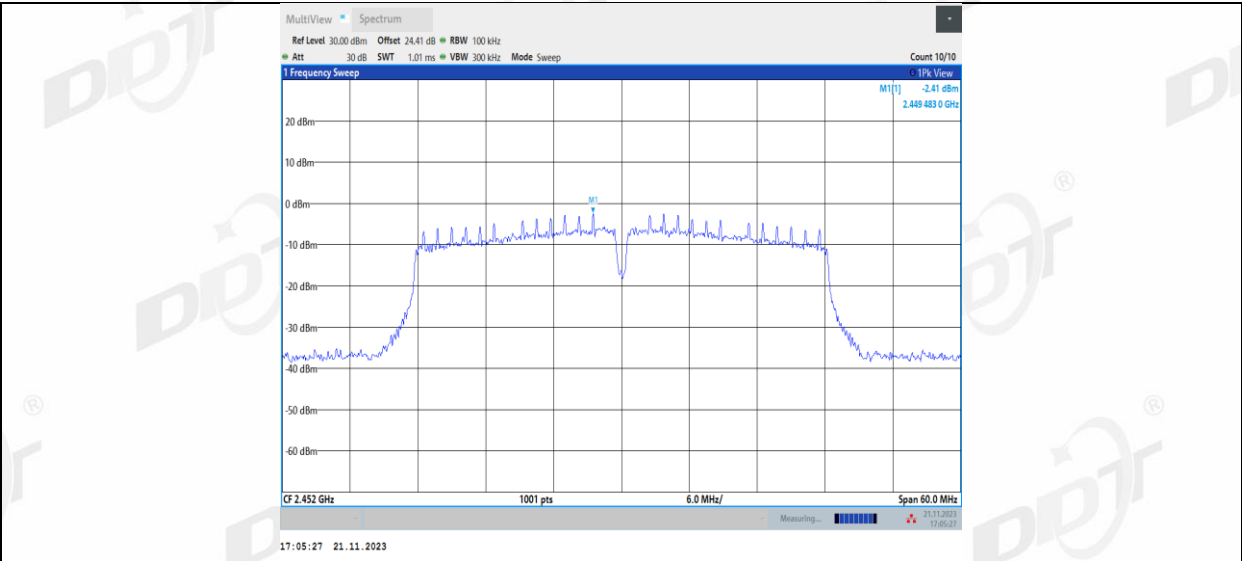
11N40MIMO_Ant2_2437_30~1000



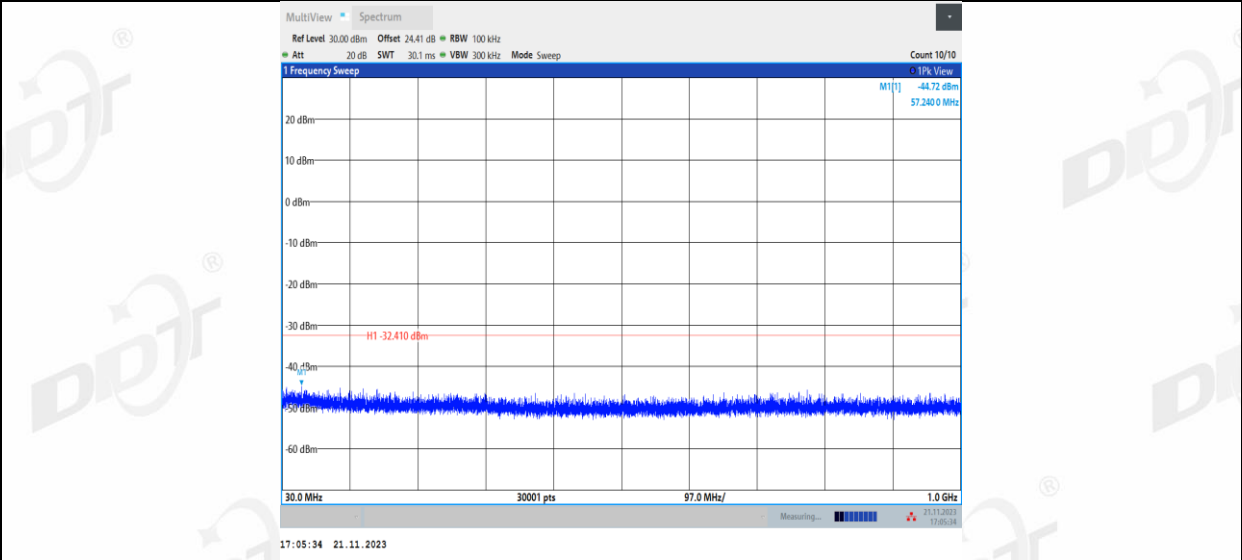
11N40MIMO_Ant2_2437_1000~26500



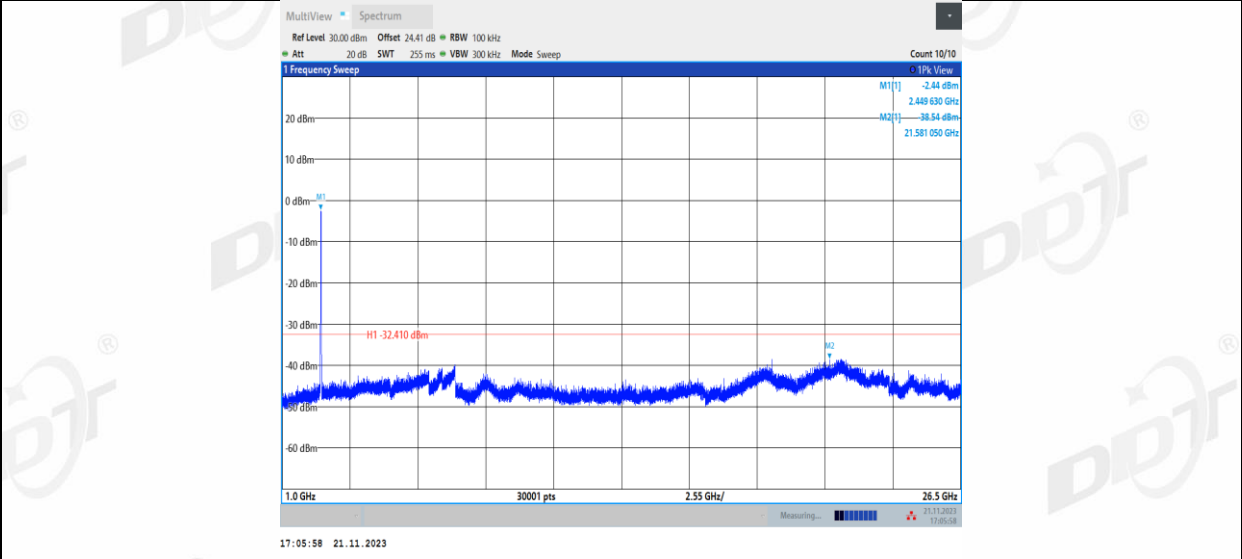
11N40MIMO_Ant1_2452_0~Reference



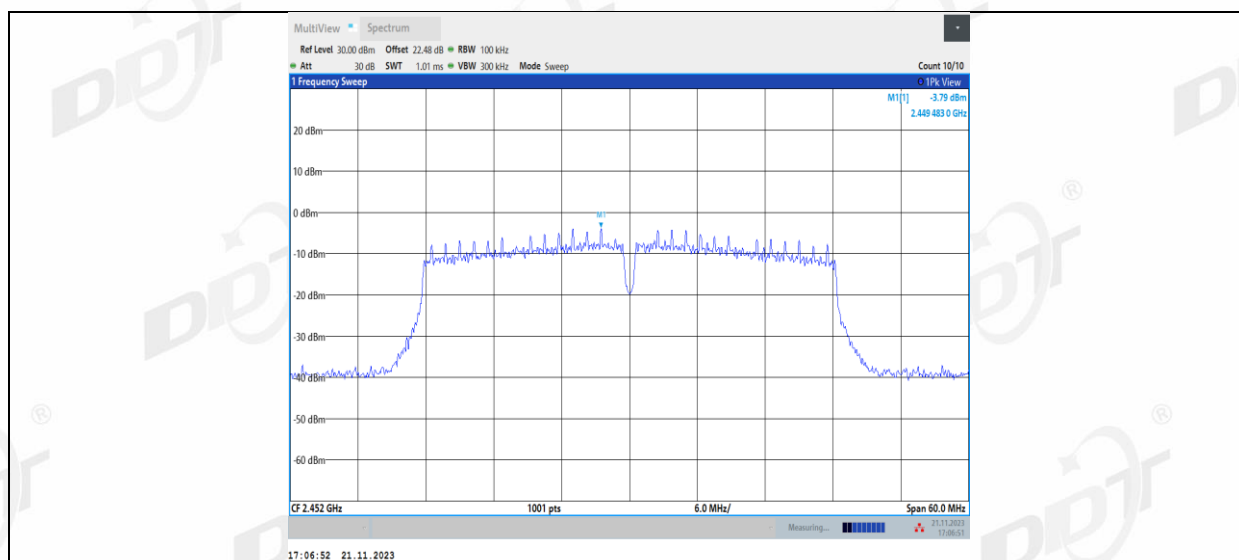
11N40MIMO_Ant1_2452_30~1000



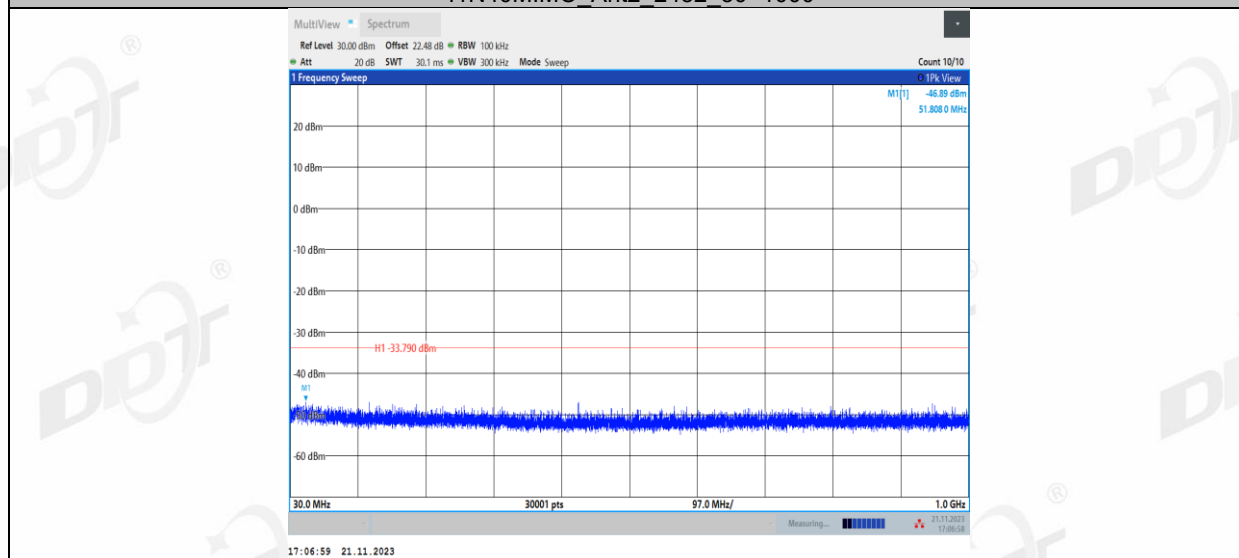
11N40MIMO_Ant1_2452_1000~26500



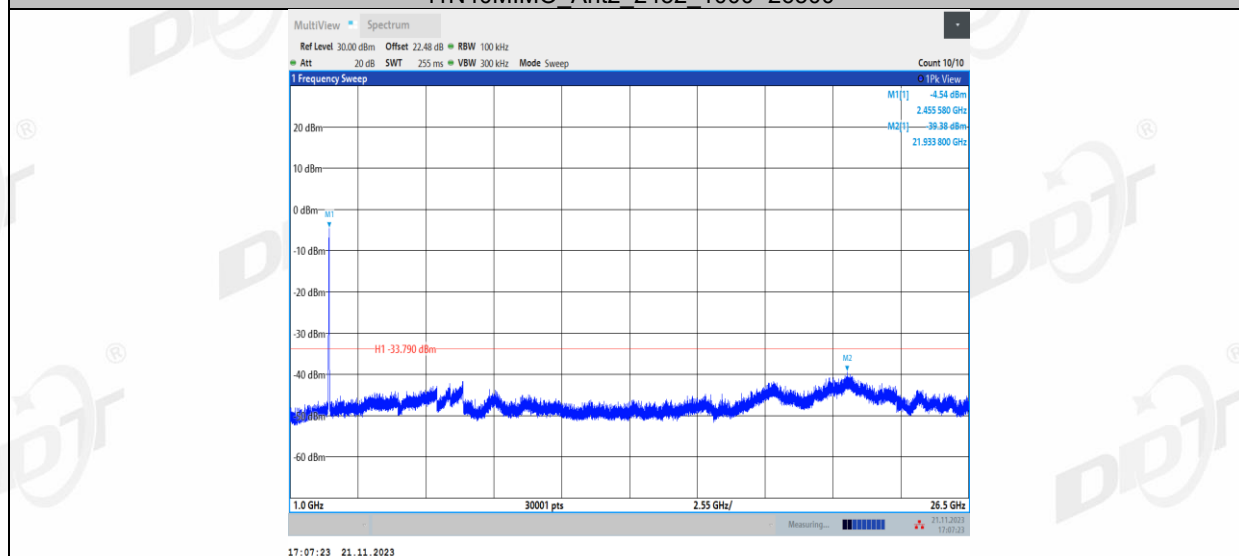
11N40MIMO_Ant2_2452_0~Reference



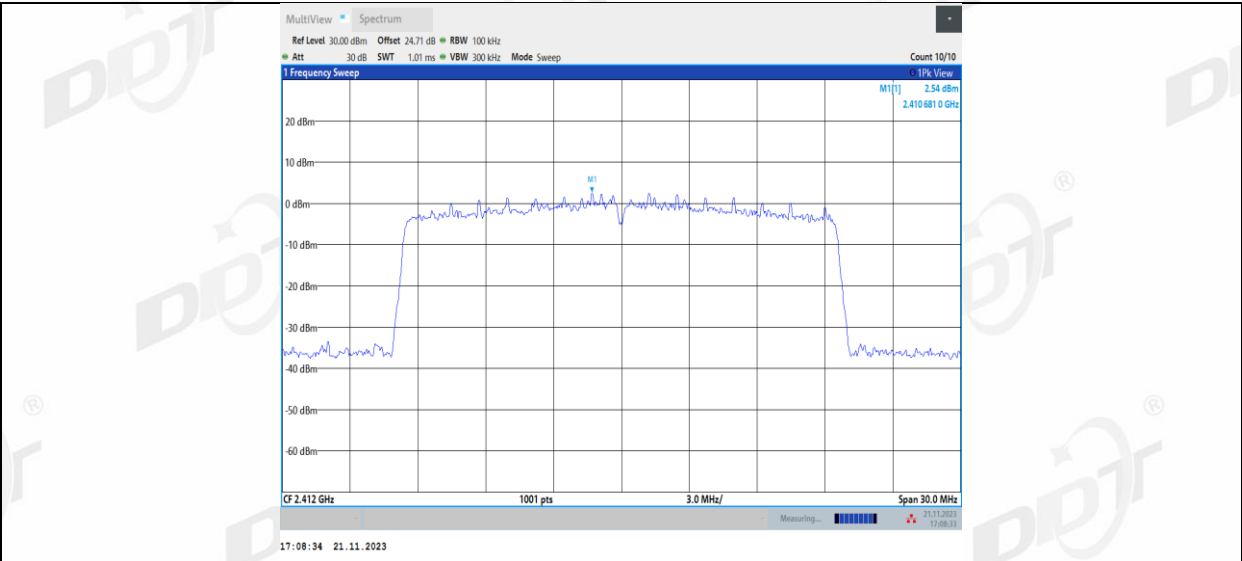
11N40MIMO_Ant2_2452_30~1000



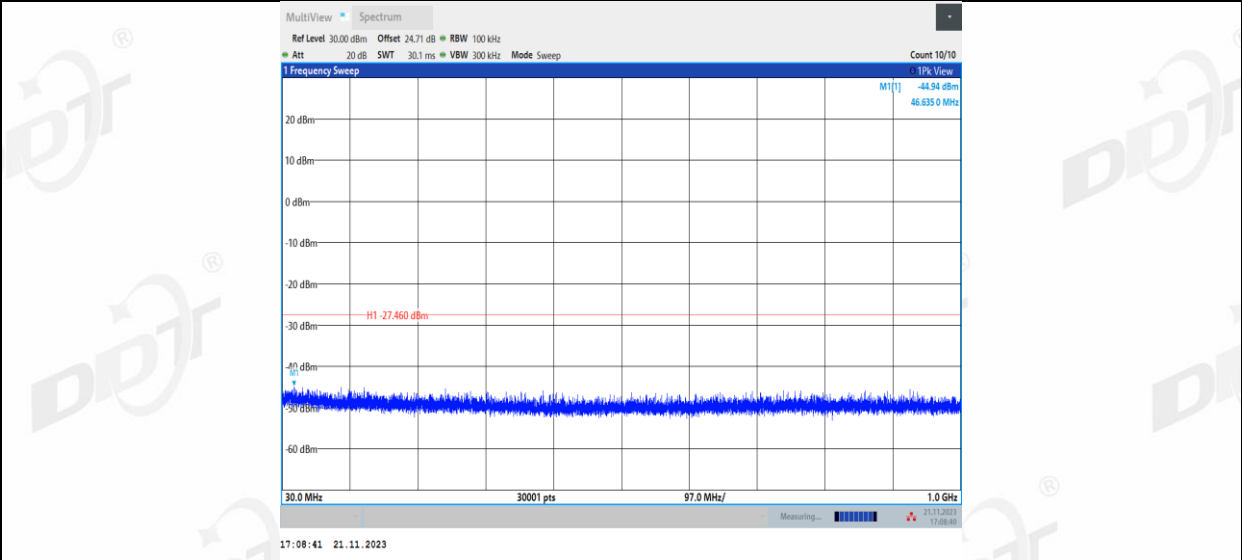
11N40MIMO_Ant2_2452_1000~26500



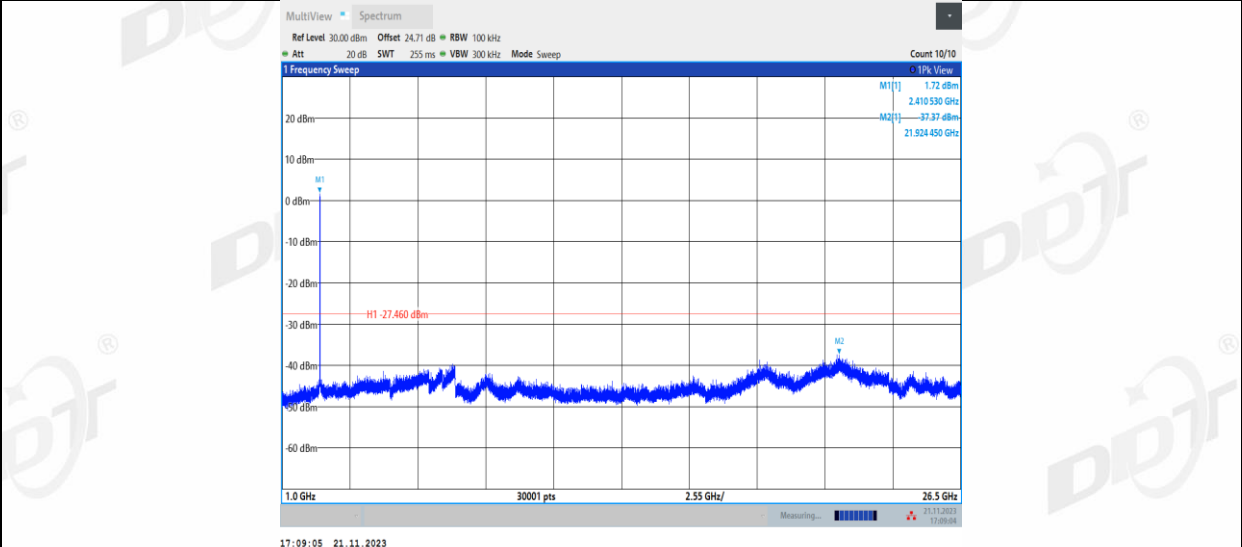
11AX20MIMO_Ant1_2412_0~Reference



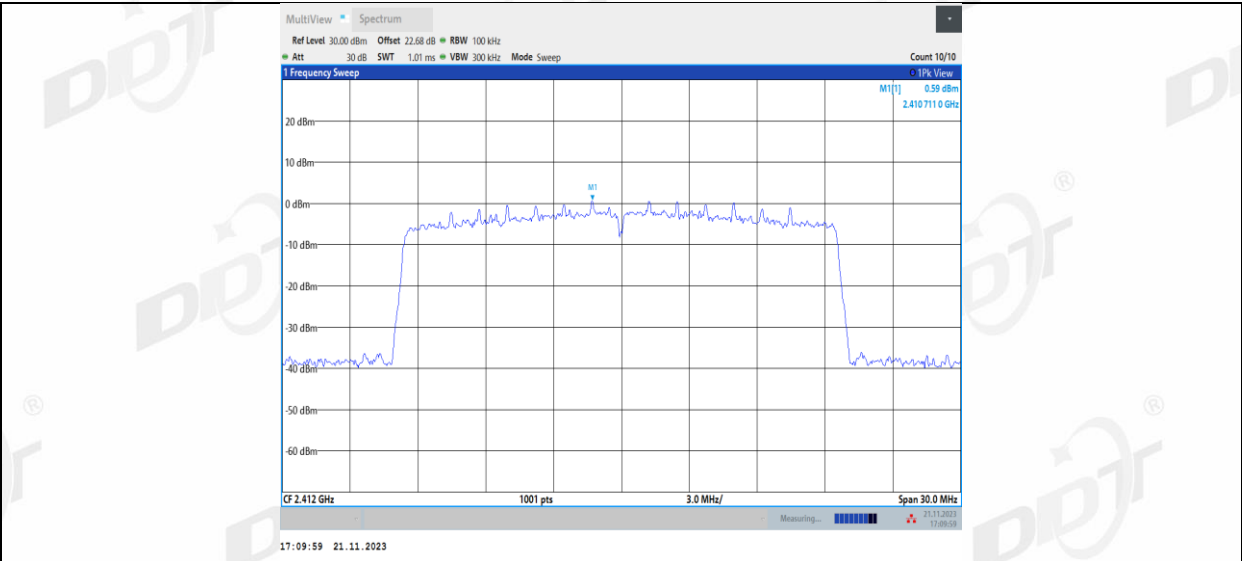
11AX20MIMO_Ant1_2412_30~1000



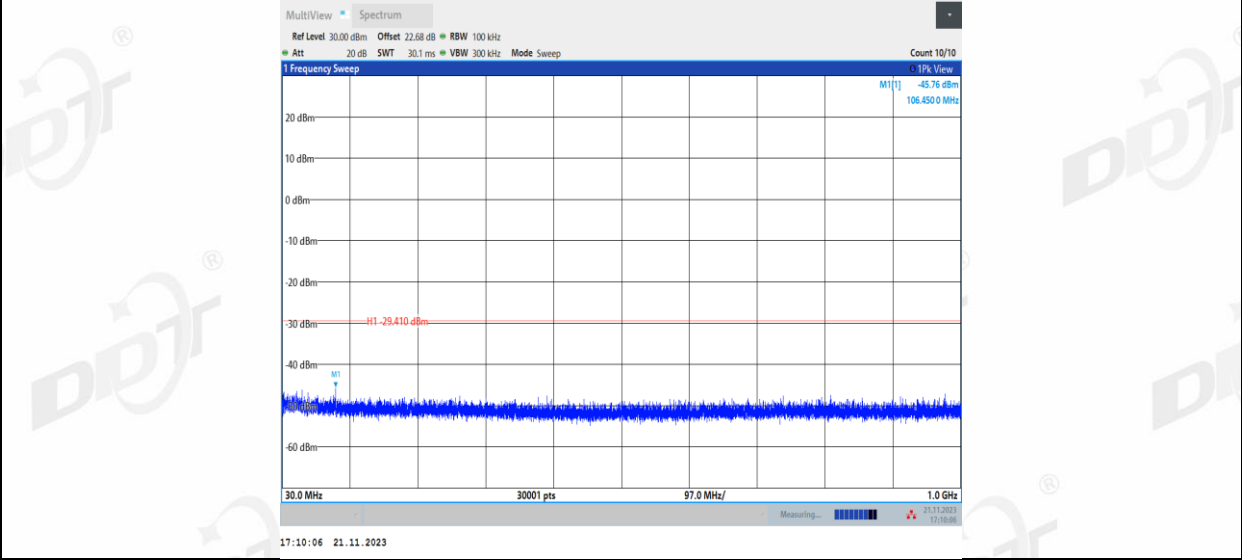
11AX20MIMO_Ant1_2412_1000~26500



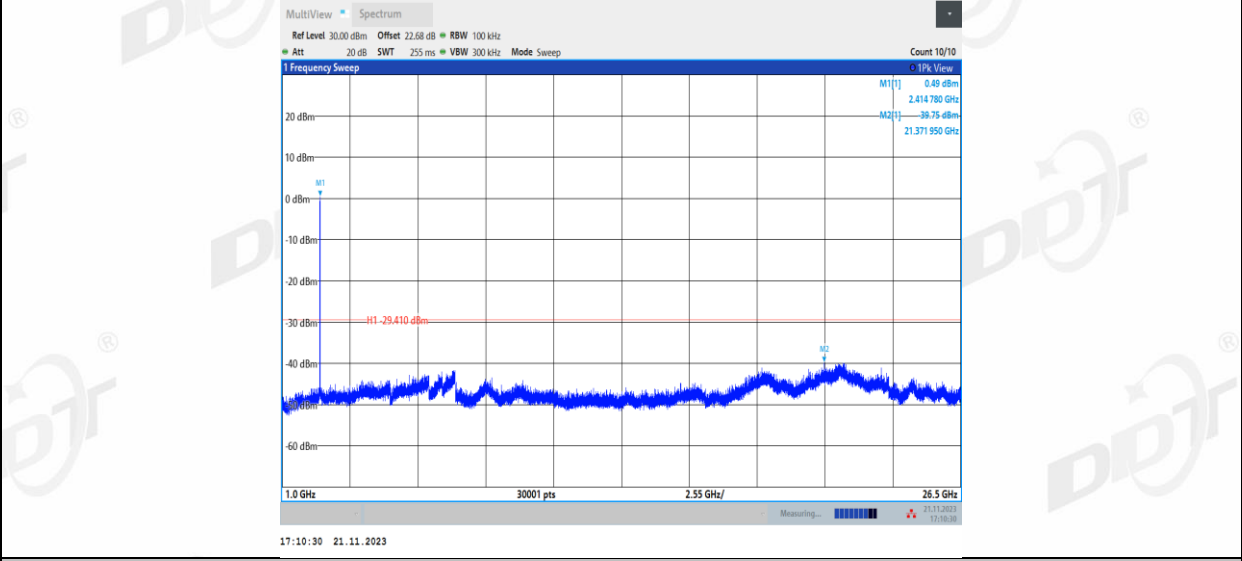
11AX20MIMO_Ant2_2412_0~Reference



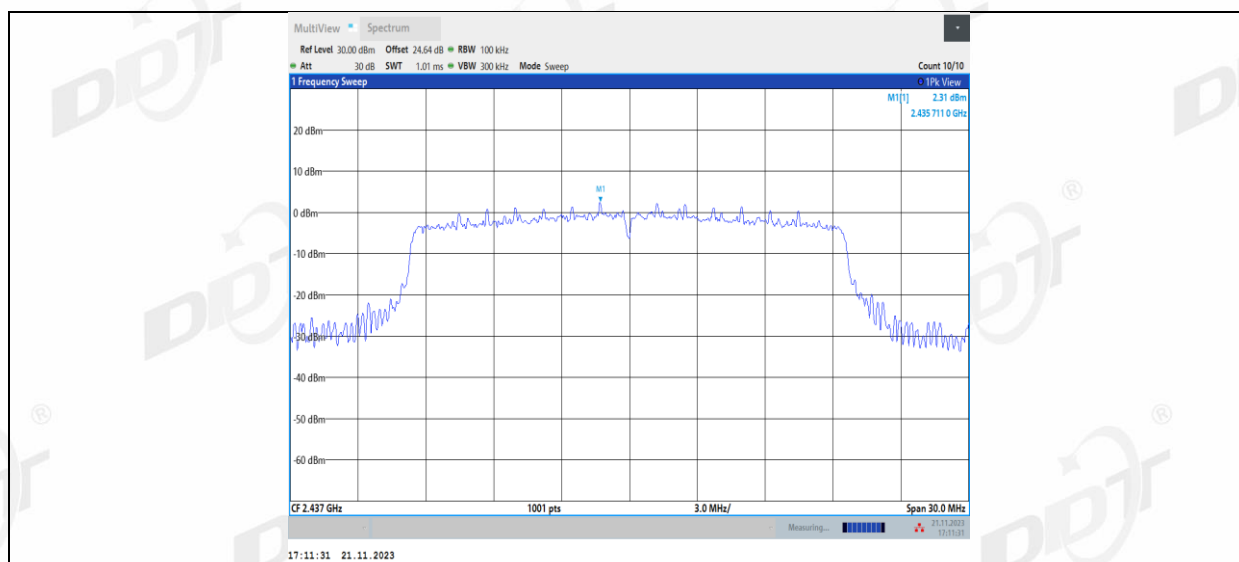
11AX20MIMO_Ant2_2412_30~1000



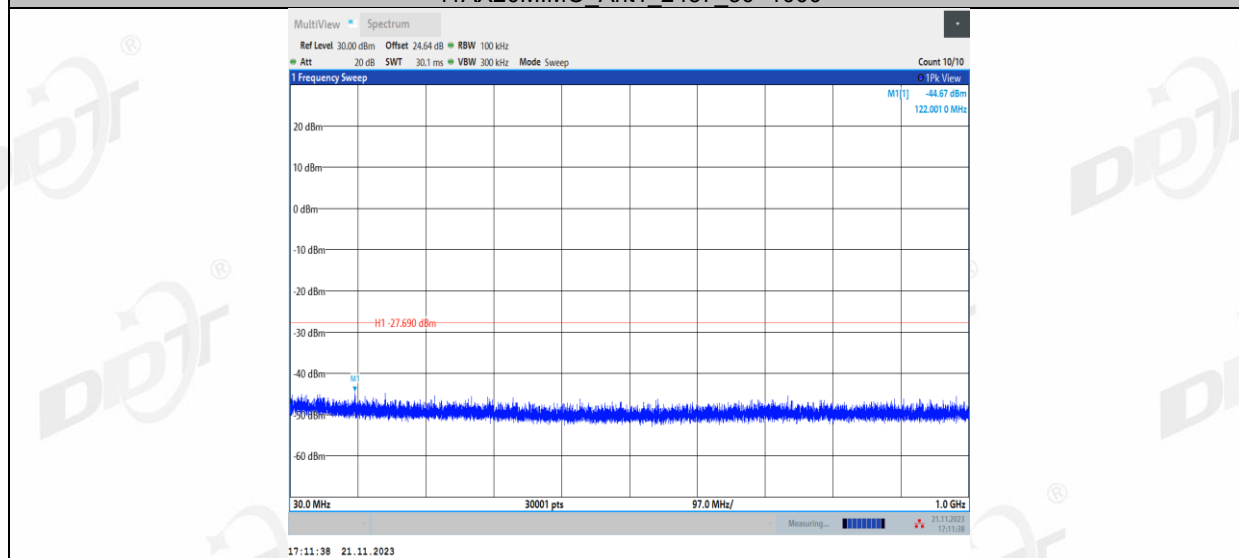
11AX20MIMO_Ant2_2412_1000~26500



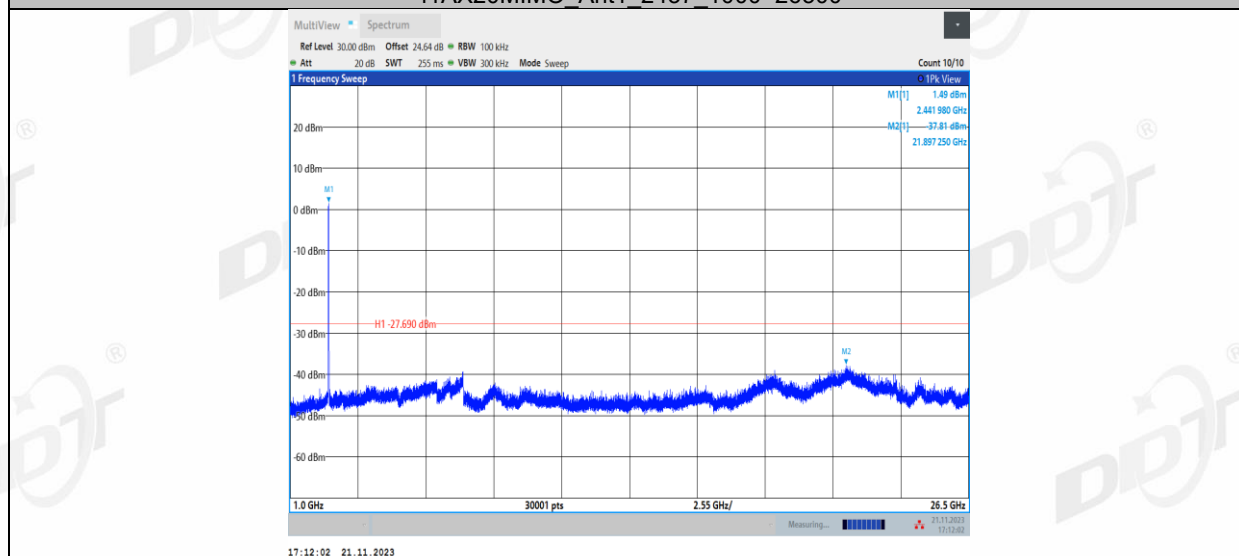
11AX20MIMO_Ant1_2437_0~Reference



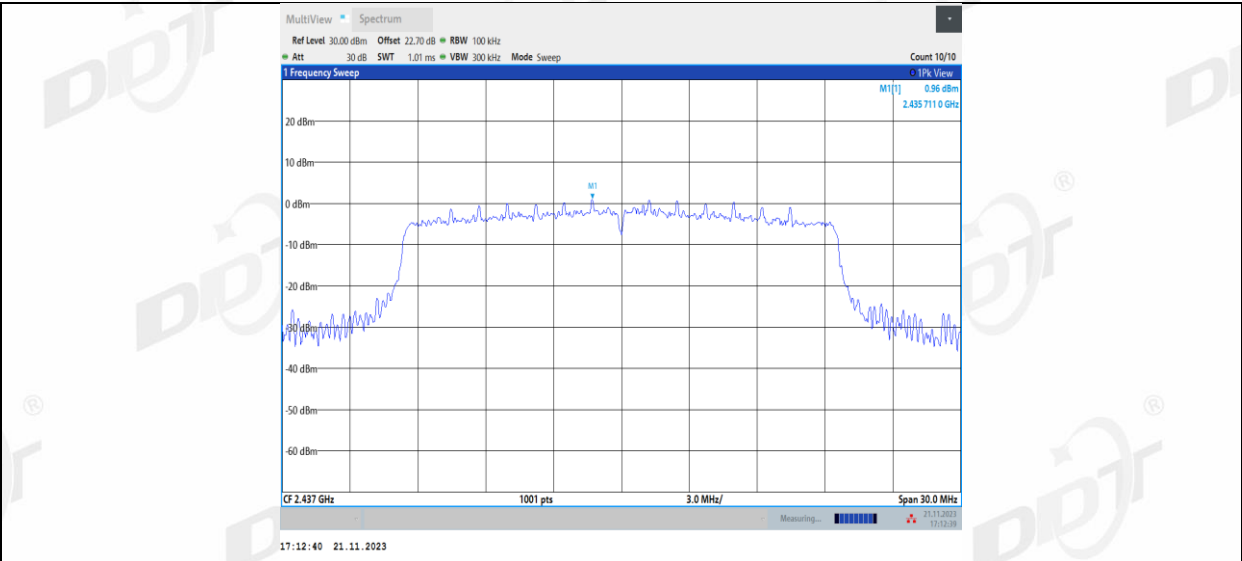
11AX20MIMO_Ant1_2437_30~1000



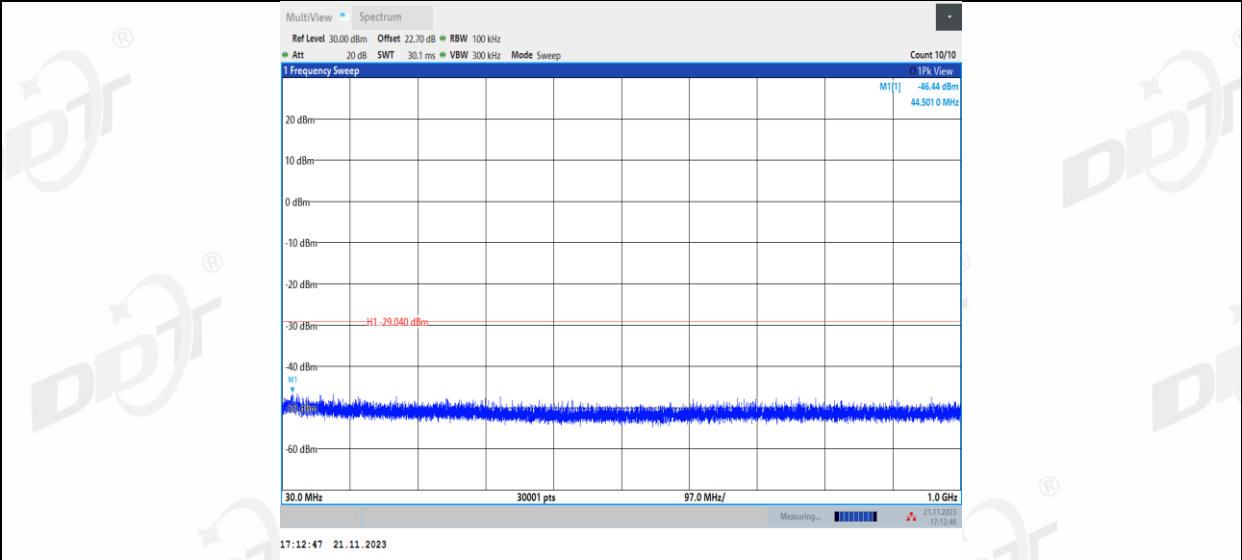
11AX20MIMO_Ant1_2437_1000~26500



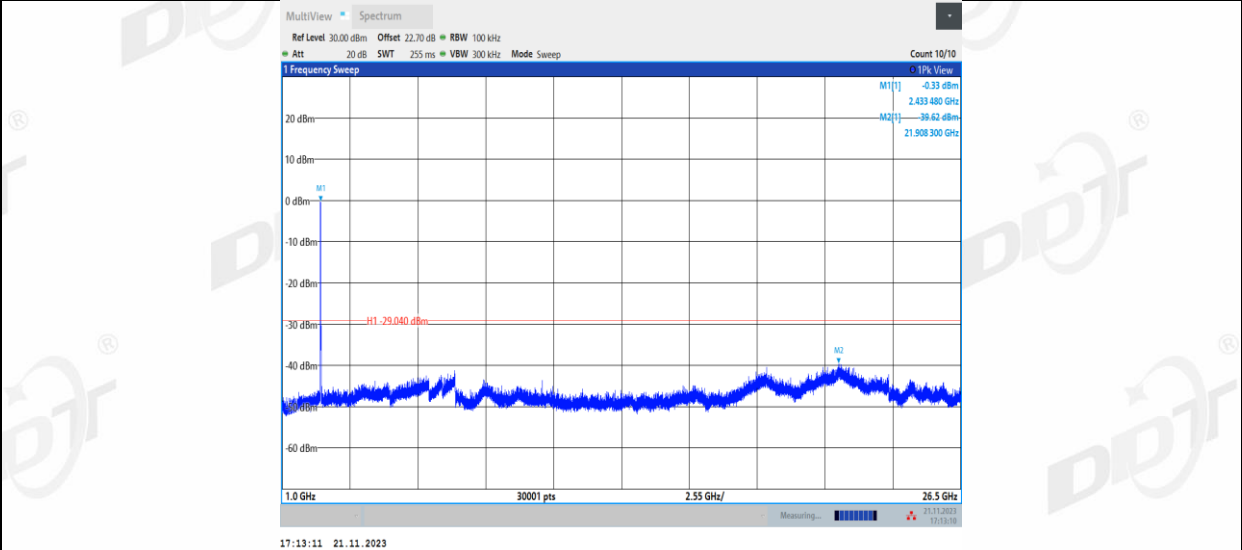
11AX20MIMO_Ant2_2437_0~Reference



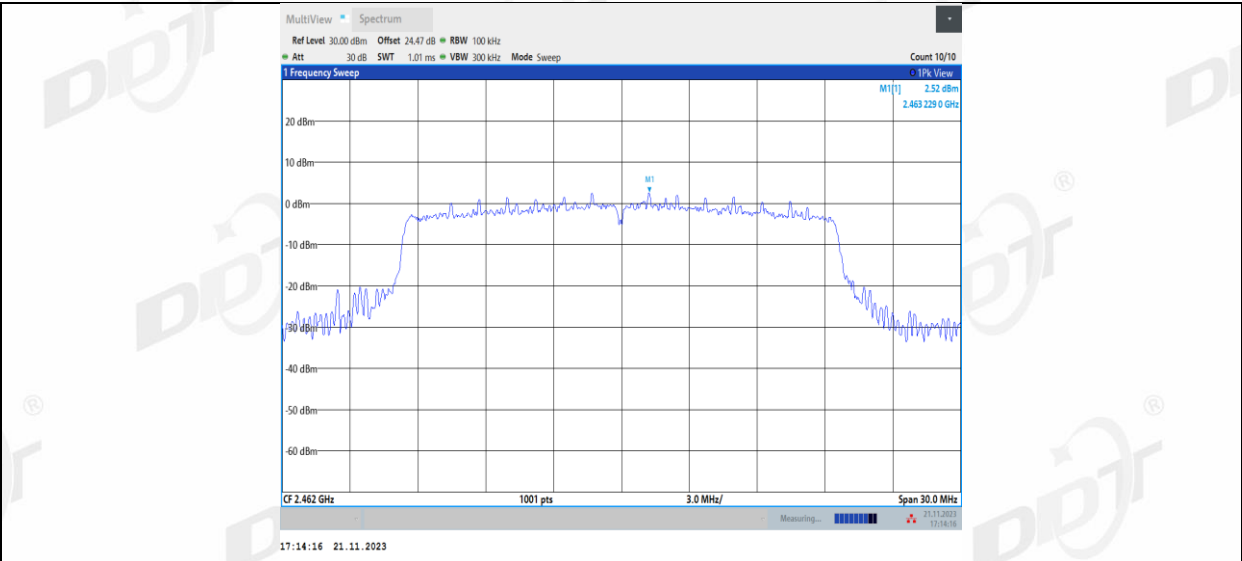
11AX20MIMO_Ant2_2437_30~1000



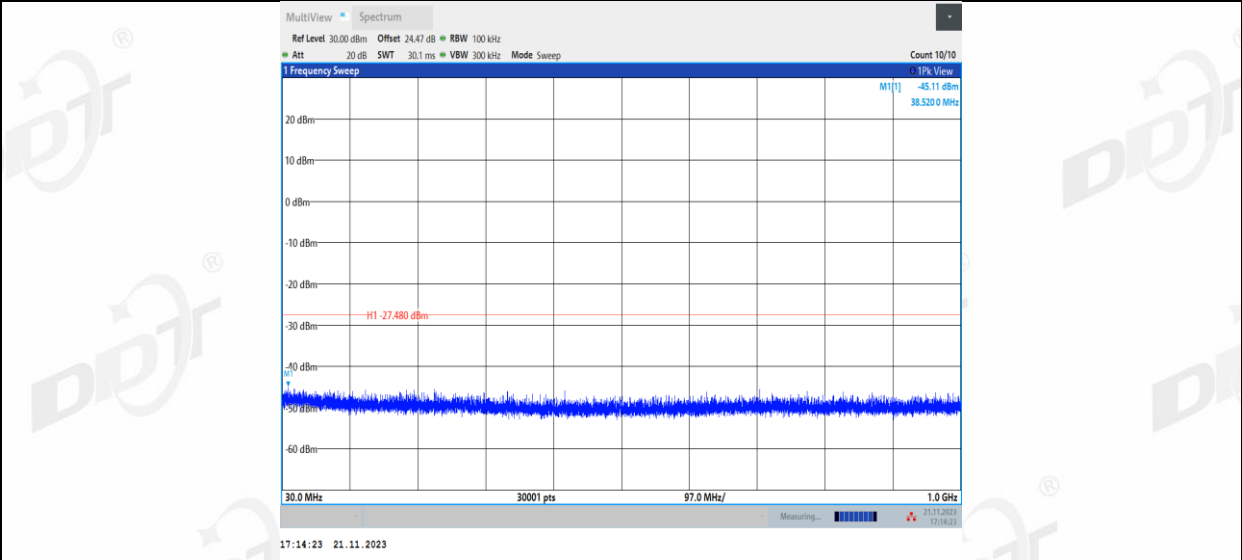
11AX20MIMO_Ant2_2437_1000~26500



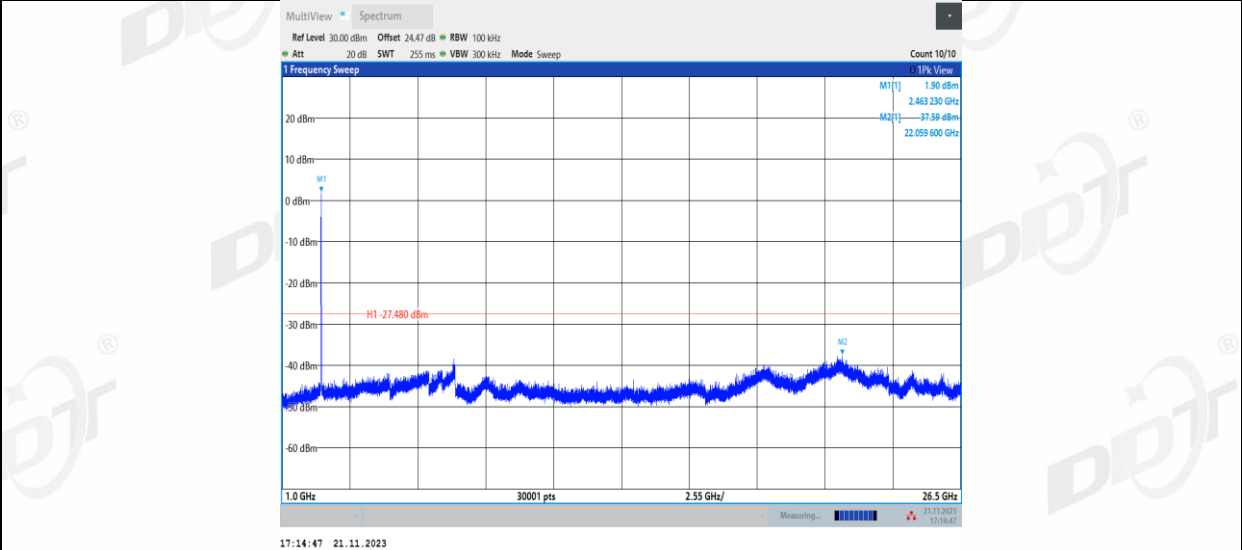
11AX20MIMO_Ant1_2462_0~Reference



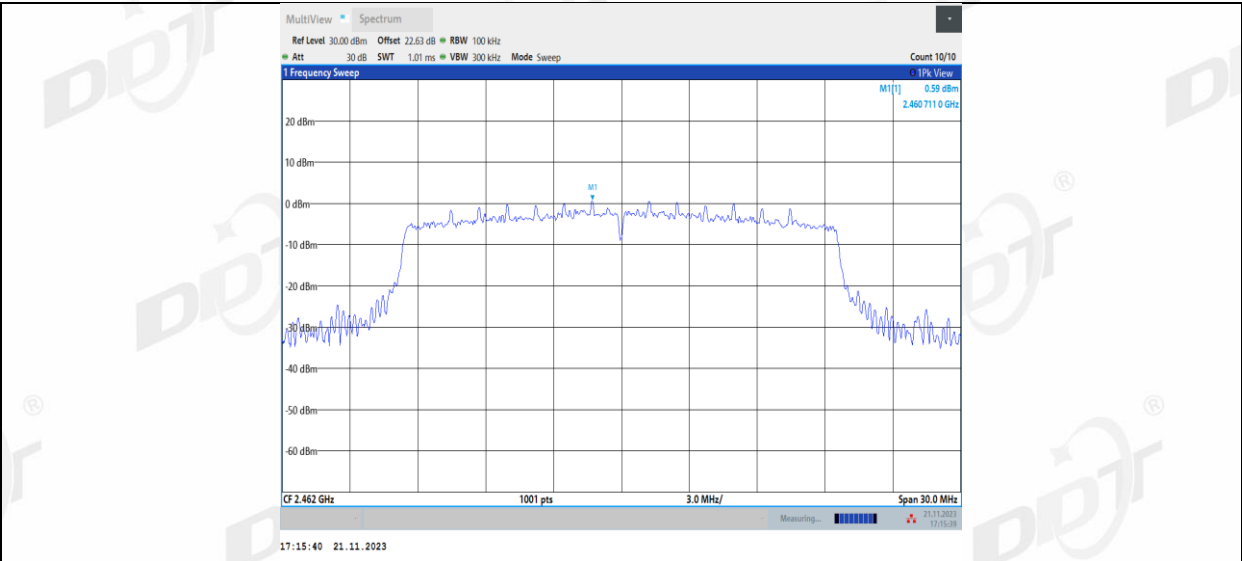
11AX20MIMO_Ant1_2462_30~1000



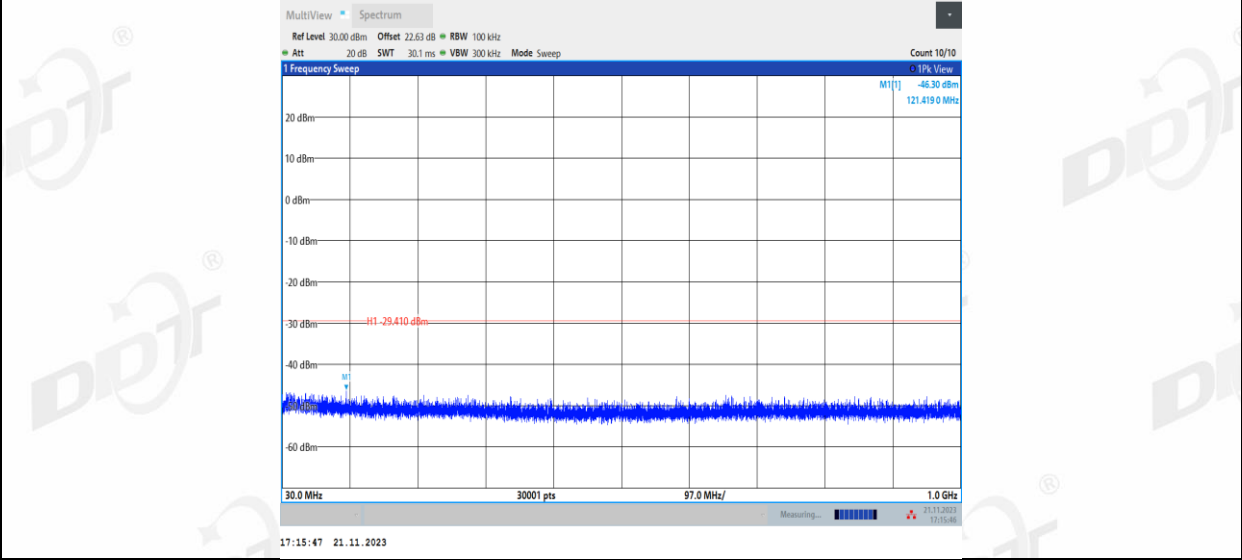
11AX20MIMO_Ant1_2462_1000~26500



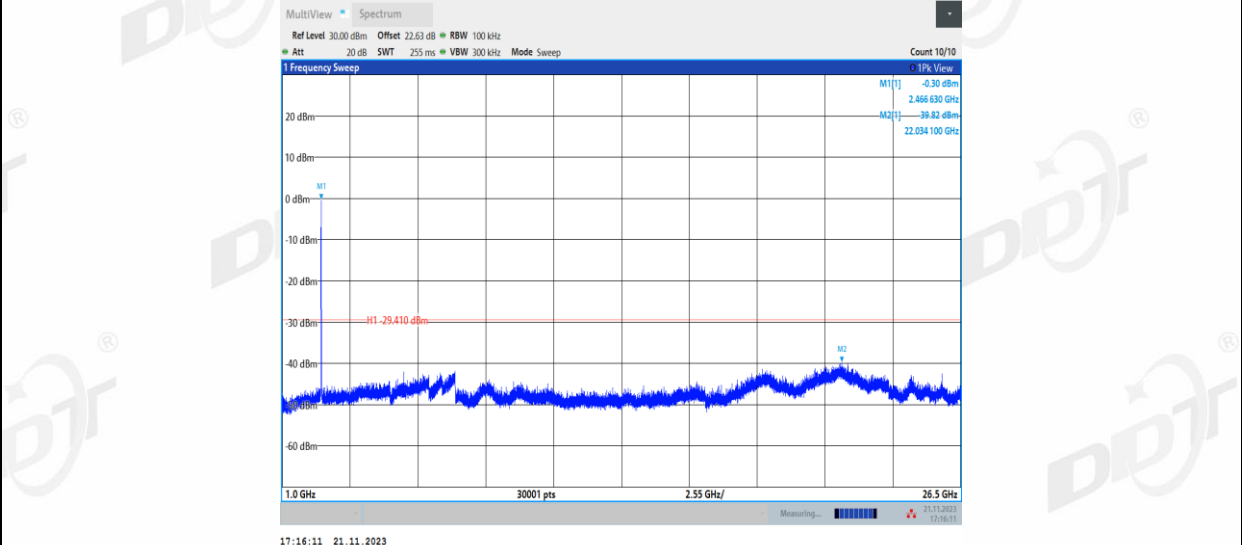
11AX20MIMO_Ant2_2462_0~Reference



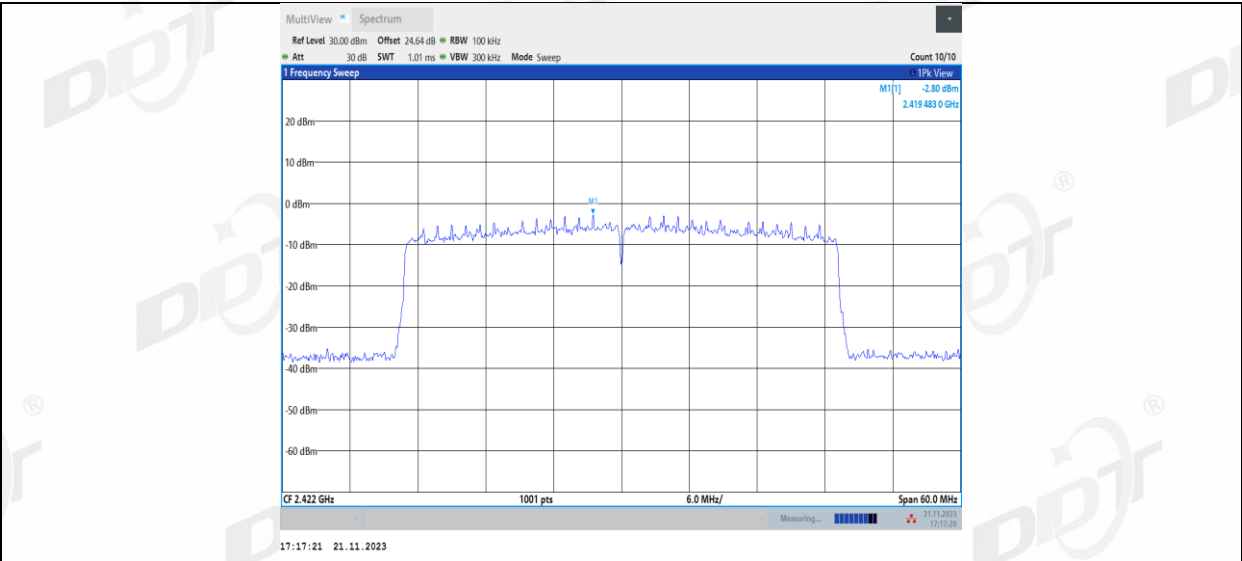
11AX20MIMO_Ant2_2462_30~1000



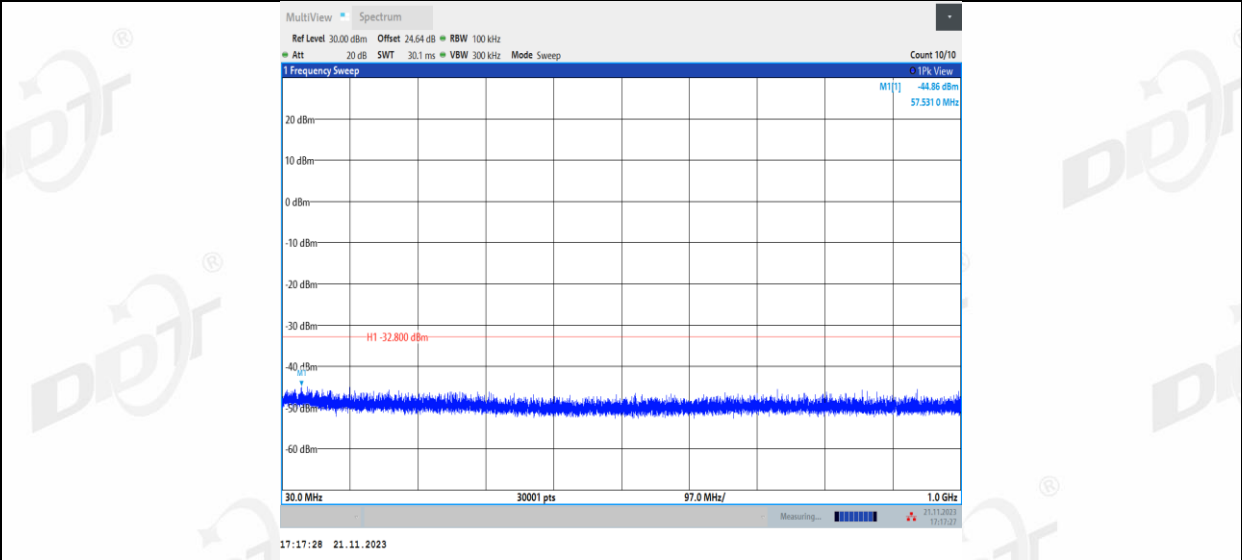
11AX20MIMO_Ant2_2462_1000~26500



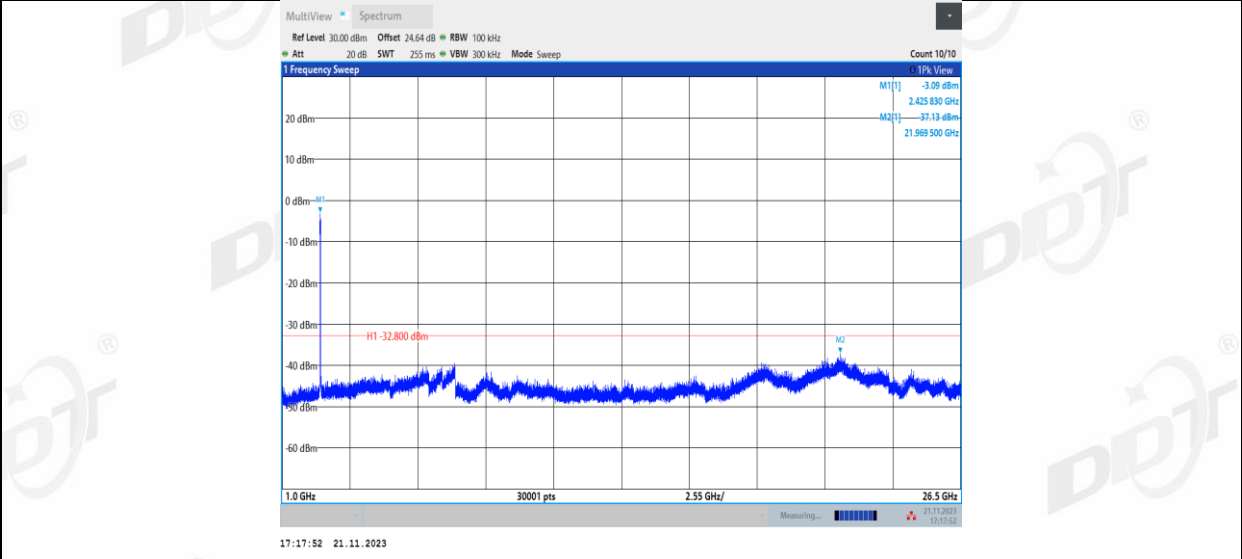
11AX40MIMO_Ant1_2422_0~Reference



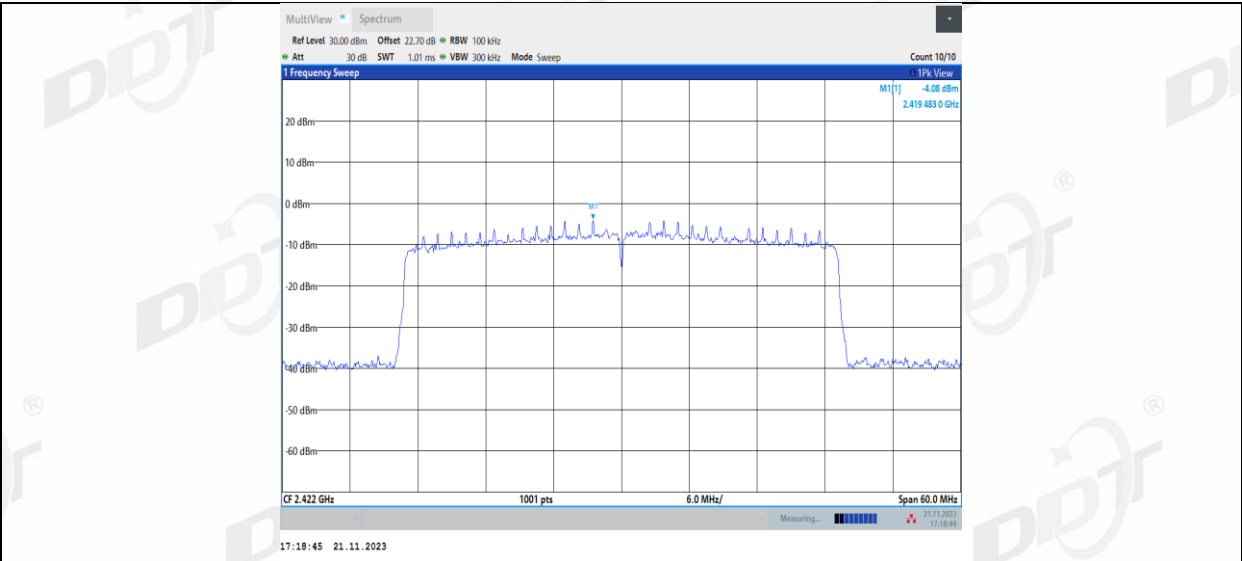
11AX40MIMO_Ant1_2422_30~1000



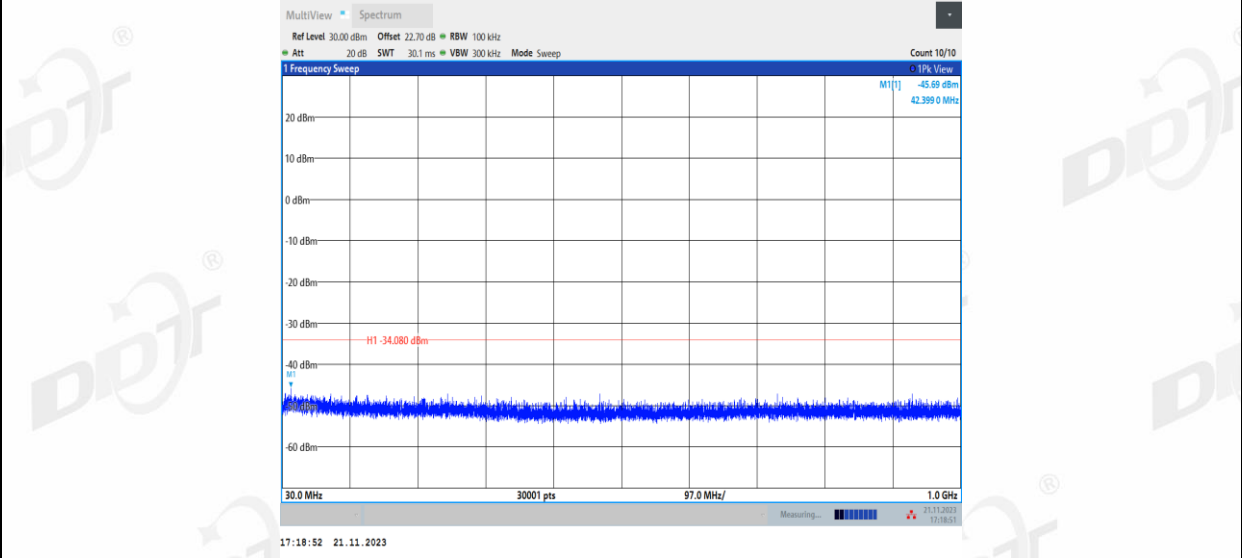
11AX40MIMO_Ant1_2422_1000~26500



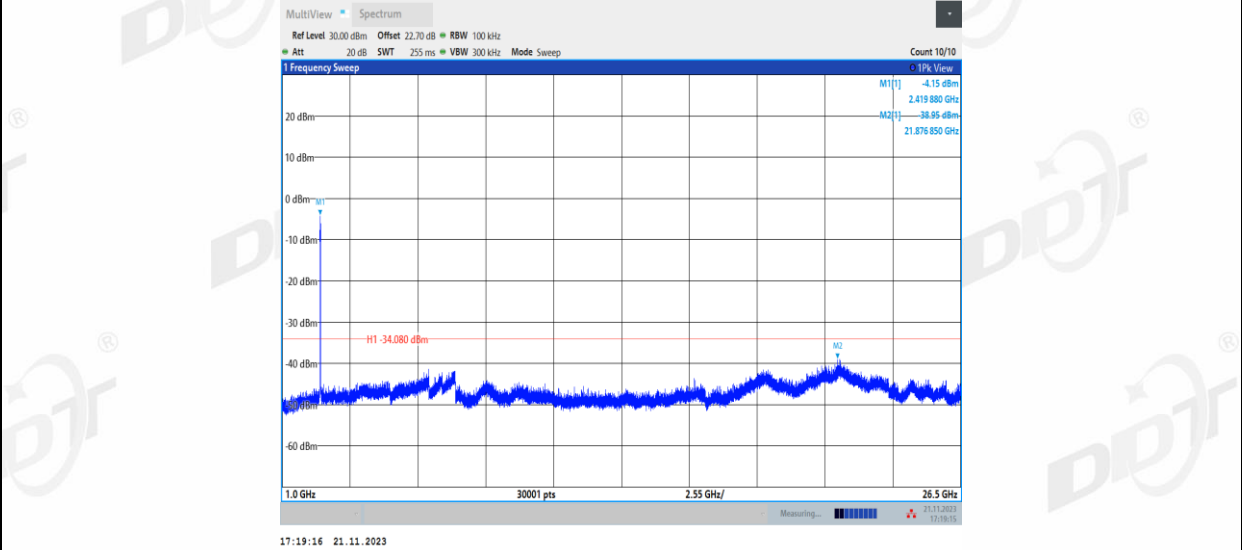
11AX40MIMO_Ant2_2422_0~Reference



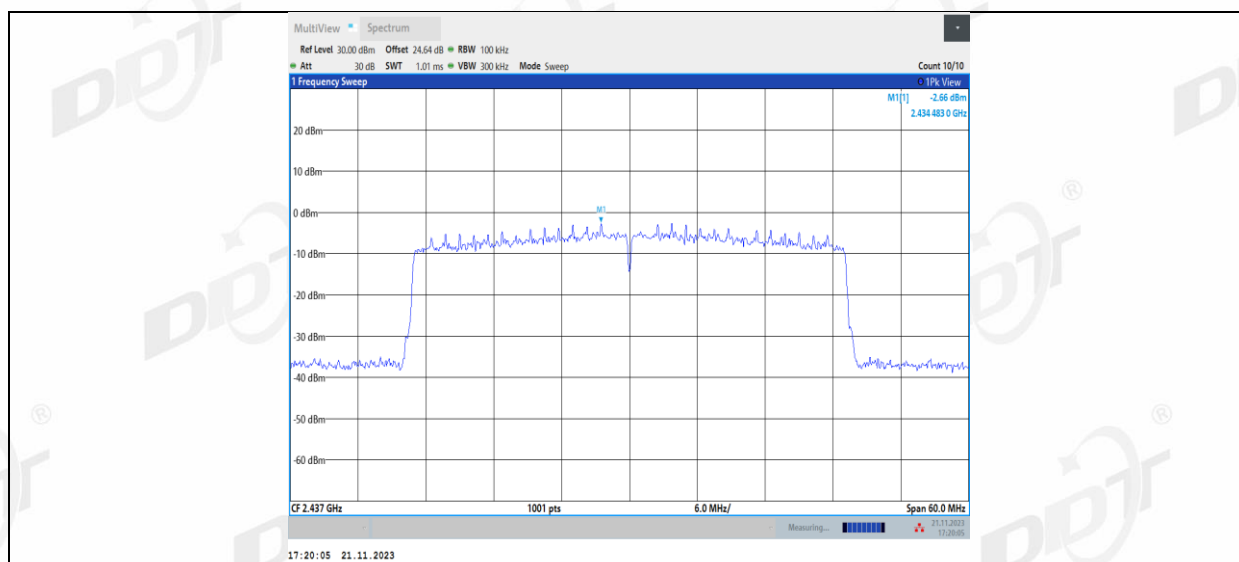
11AX40MIMO_Ant2_2422_30~1000



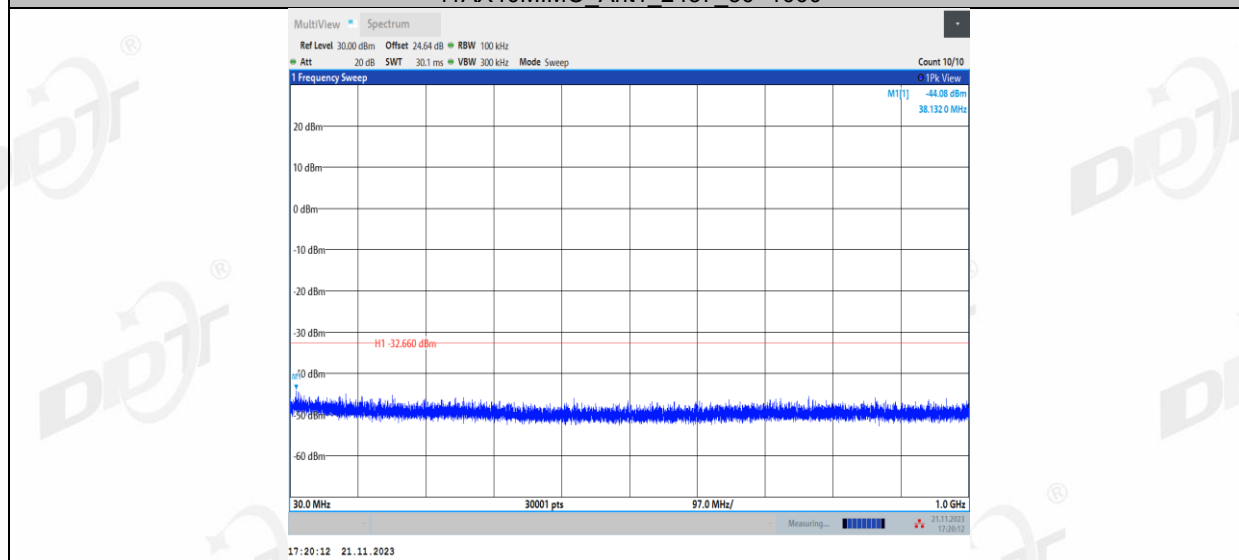
11AX40MIMO_Ant2_2422_1000~26500



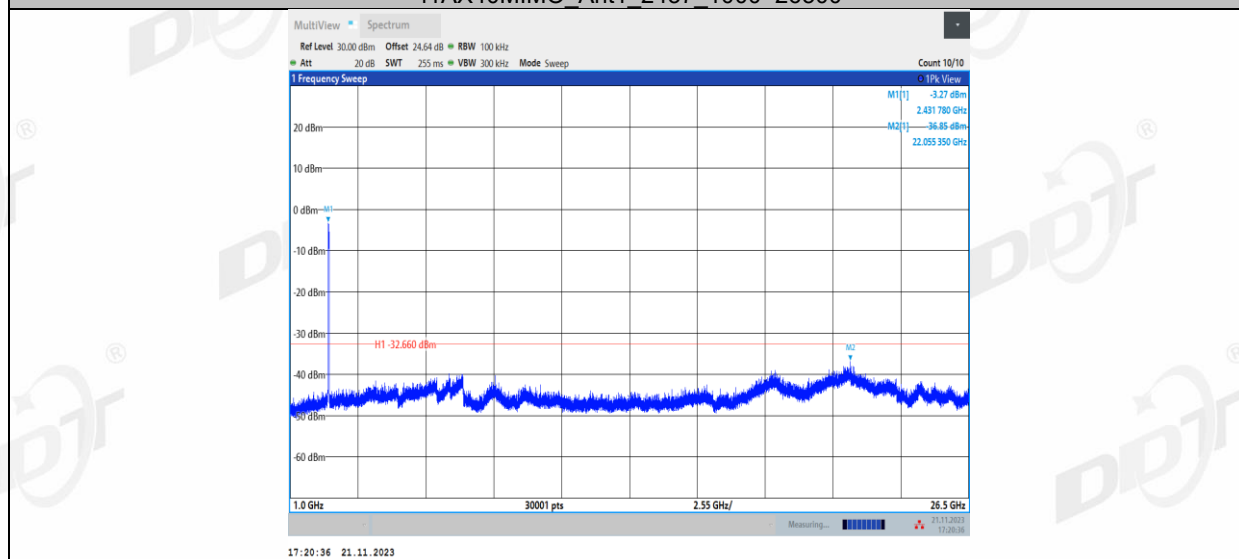
11AX40MIMO_Ant1_2437_0~Reference



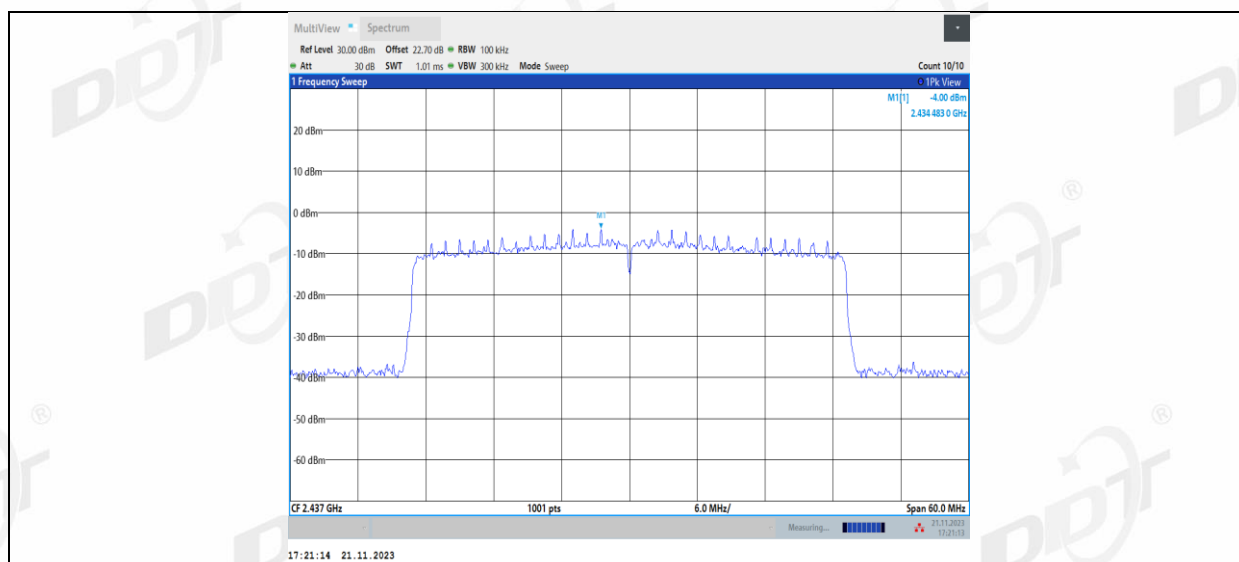
11AX40MIMO_Ant1_2437_30~1000



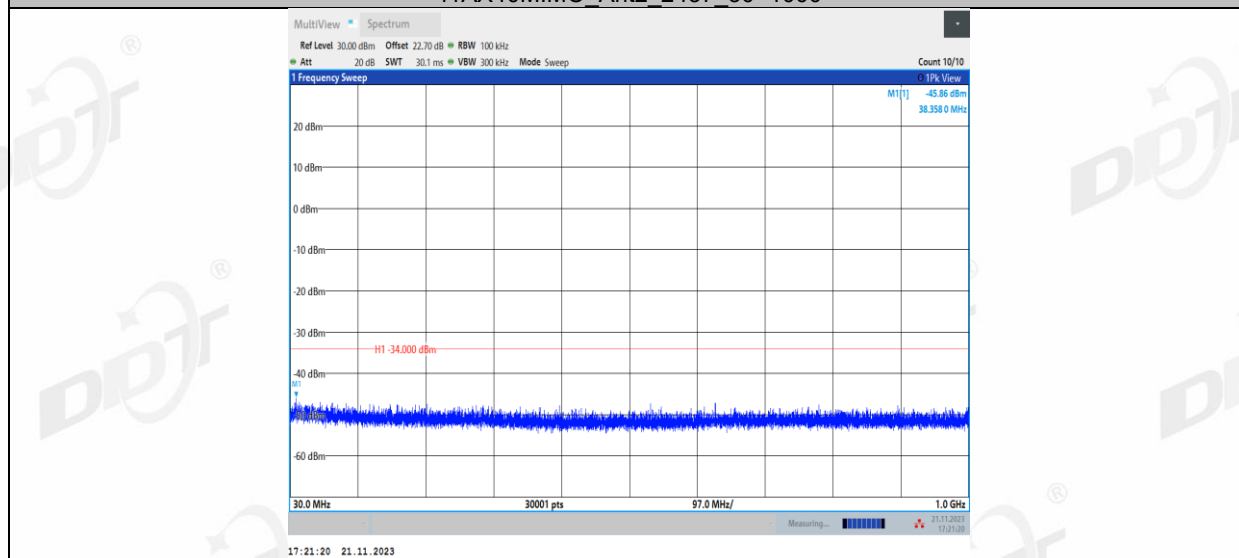
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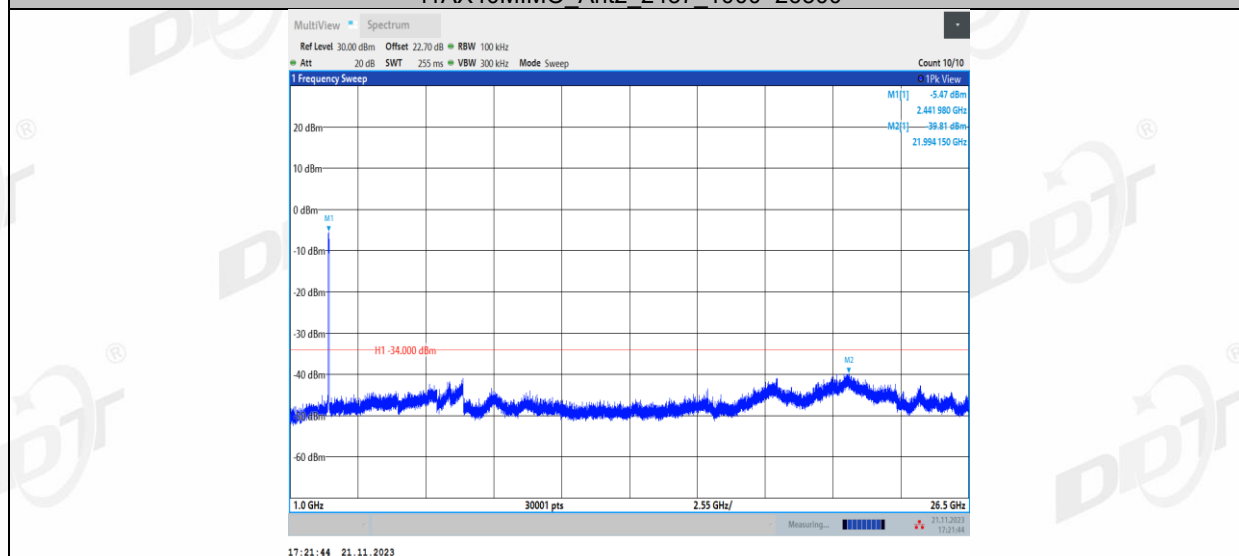
11AX40MIMO_Ant2_2437_0~Reference



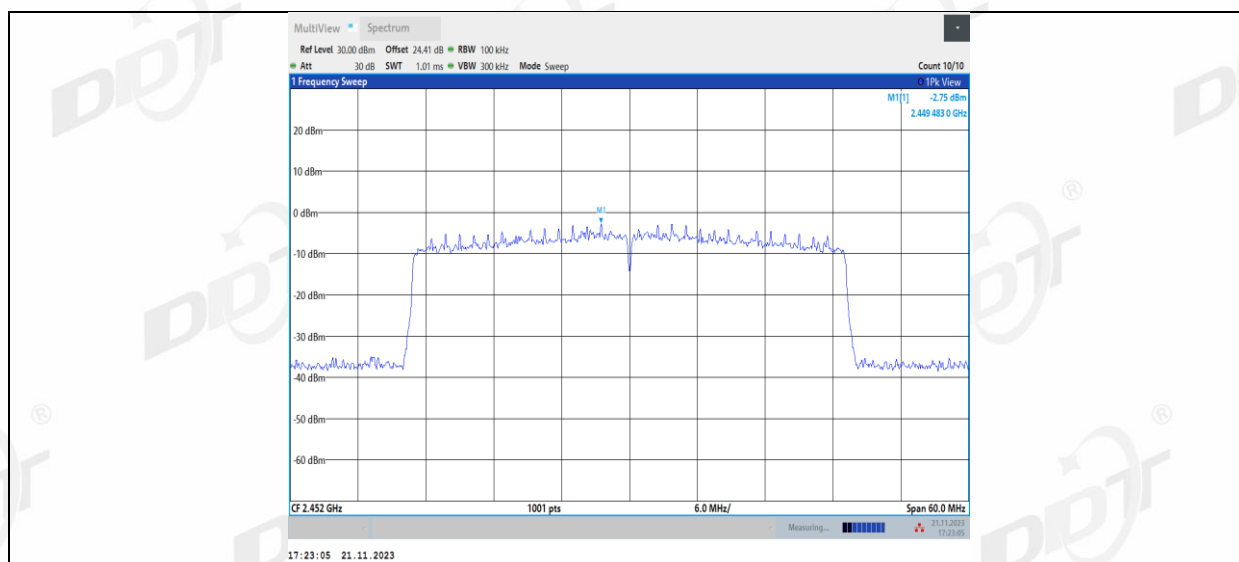
11AX40MIMO_Ant2_2437_30~1000



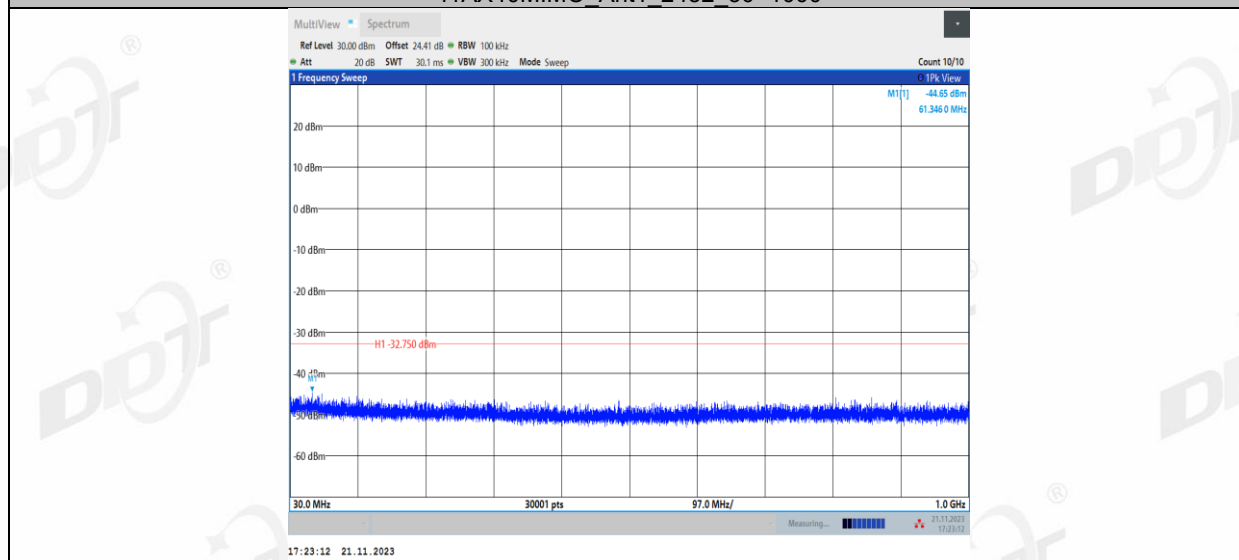
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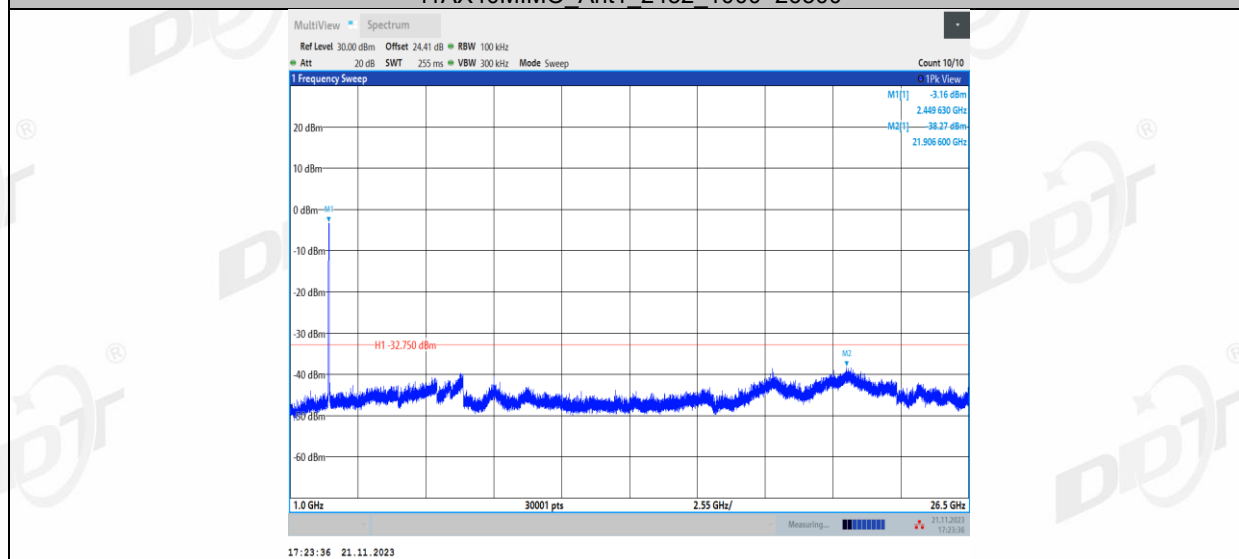
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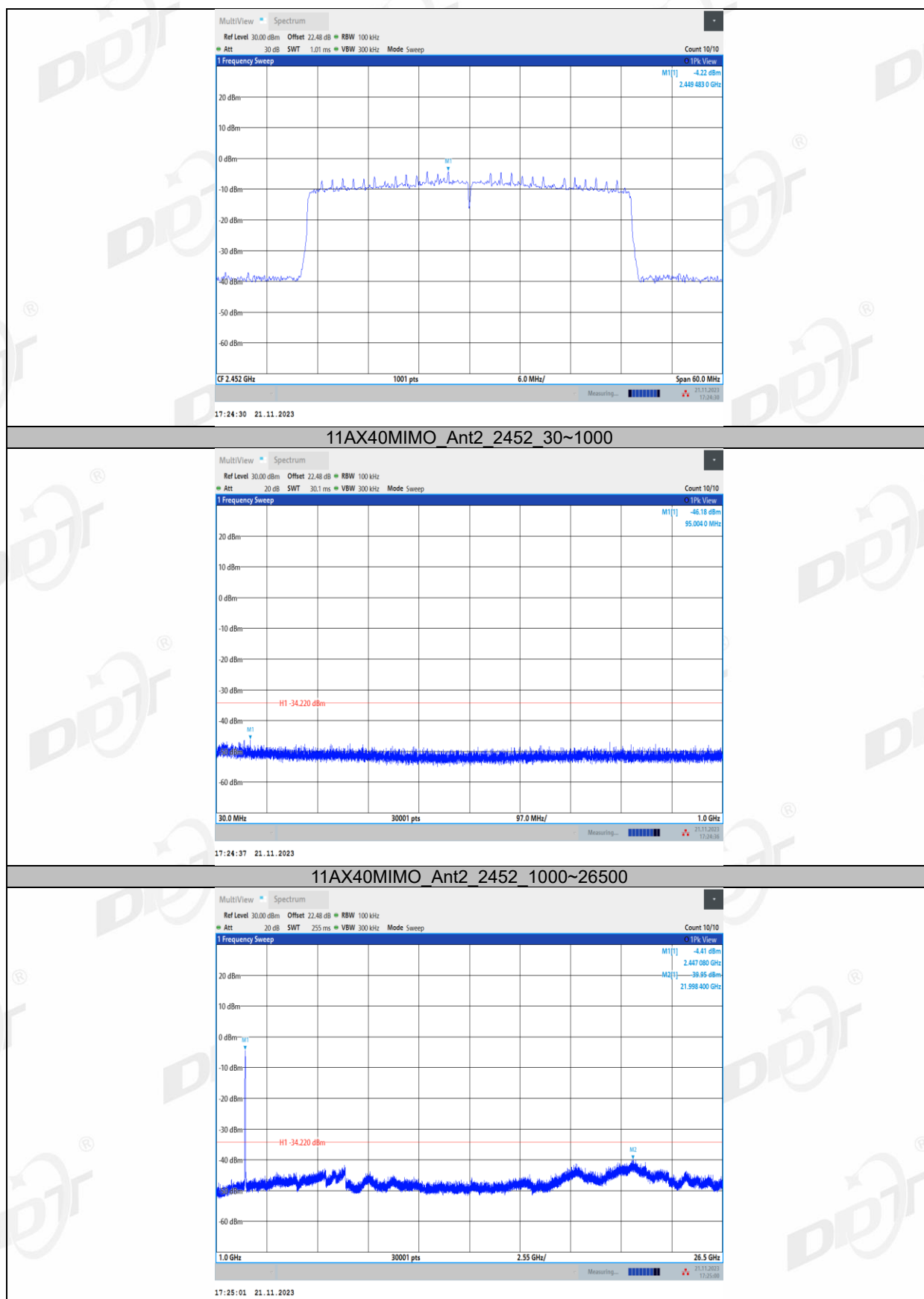
11AX40MIMO_Ant1_2452_30~1000



11AX40MIMO_Ant1_2452_1000~26500

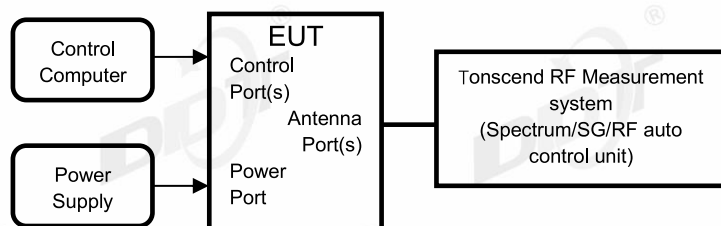


11AX40MIMO_Ant2_2452_0~Reference



10. Duty Cycle

10.1. Block diagram of test setup



10.2. Limit

Just for Report.

10.3. Test procedure

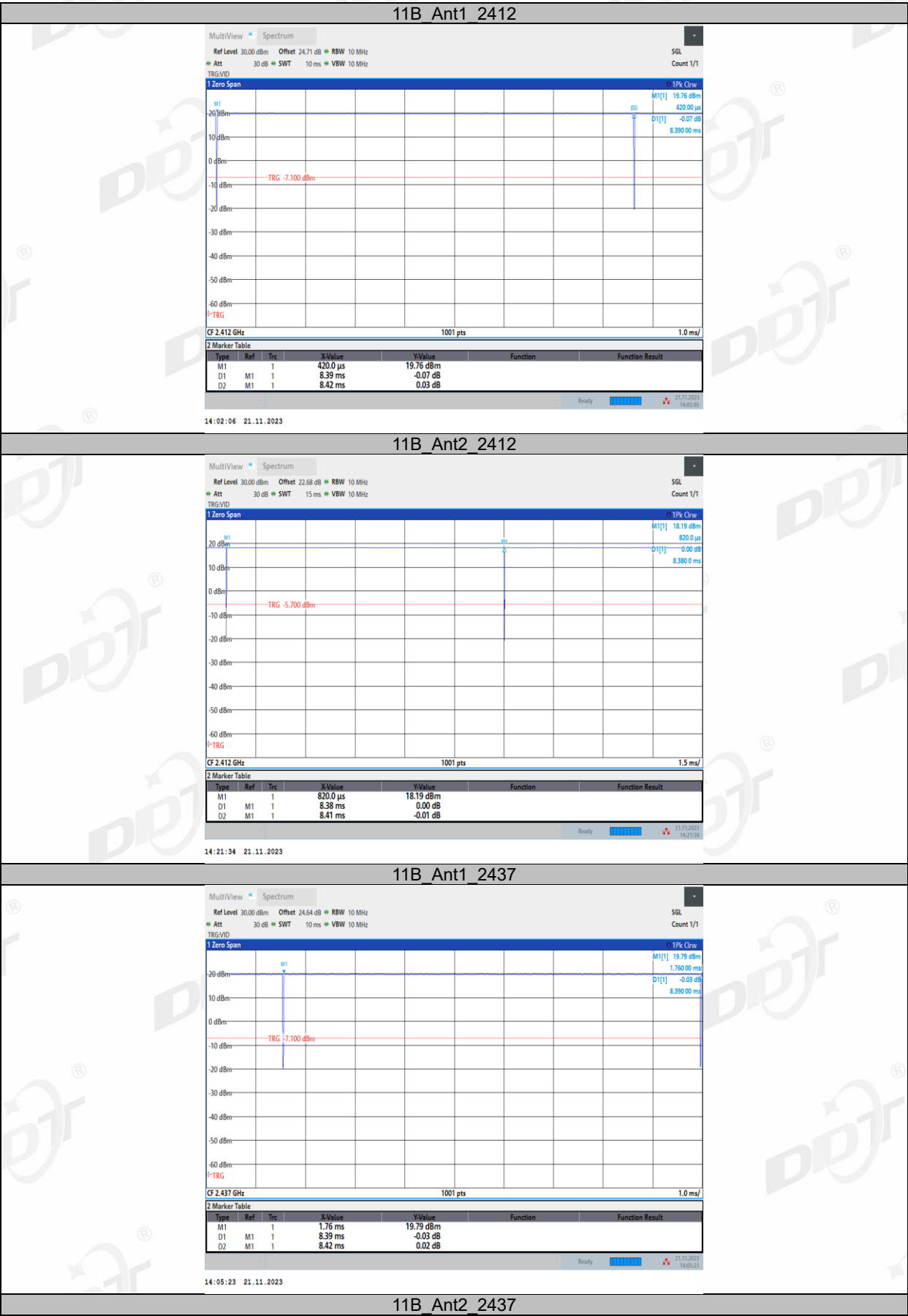
- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.
set the Spectrum Analyzer as below:
 - Centre Frequency: The centre frequency of the middle hopping channel.
 - Resolution 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

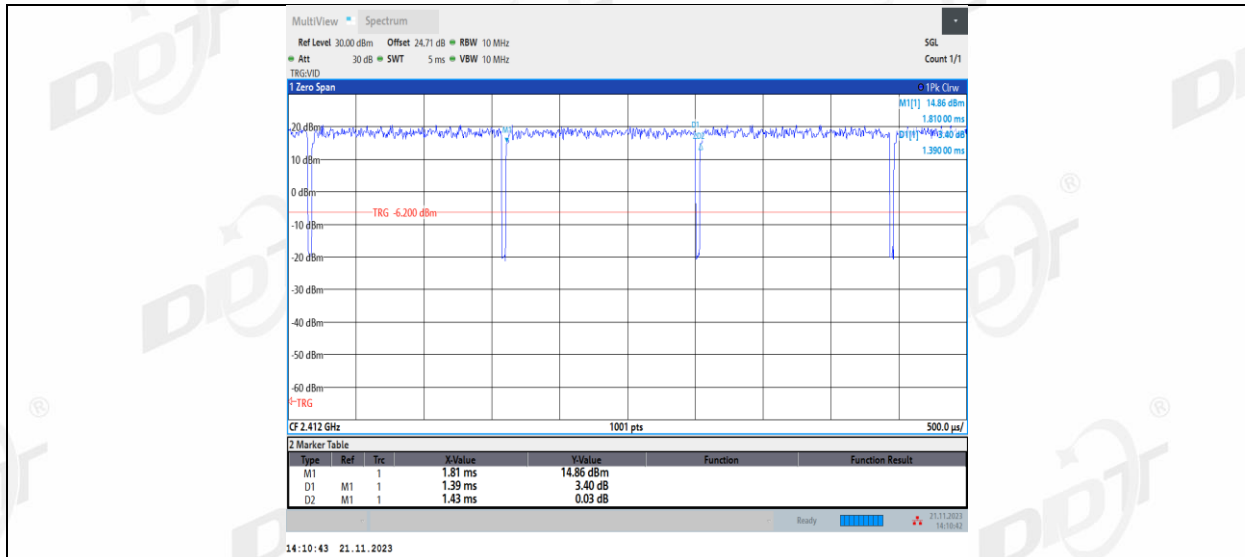
Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	23.4℃,48.3%RH	Test Date:	2023.11.21/2024.02.01
Test Power Supply:	Battery	EUT:	Wireless Speaker
Sample Number:	S23111312-01	Model No.:	BOOMBOX3 Wi-Fi

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	8.39	8.42	99.64
	Ant2	2412	8.38	8.41	99.64
	Ant1	2437	8.39	8.42	99.64
	Ant2	2437	8.40	8.43	99.64
	Ant1	2462	8.39	8.42	99.64
	Ant2	2462	8.40	8.43	99.64
11G	Ant1	2412	1.39	1.43	97.20
	Ant2	2412	1.39	1.43	97.20
	Ant1	2437	1.39	1.42	97.89
	Ant2	2437	1.39	1.43	97.20
	Ant1	2462	1.39	1.43	97.20
	Ant2	2462	1.39	1.43	97.20
11N20MIMO	Ant1	2412	0.67	0.71	94.37
	Ant2	2412	0.67	0.71	94.37
	Ant1	2437	0.67	0.71	94.37
	Ant2	2437	0.67	0.71	94.37
	Ant1	2462	0.67	0.71	94.37
	Ant2	2462	0.67	0.71	94.37
11N40MIMO	Ant1	2422	0.35	0.38	92.11
	Ant2	2422	0.35	0.38	92.11
	Ant1	2437	0.35	0.38	92.11
	Ant2	2437	0.35	0.38	92.11
	Ant1	2452	0.34	0.38	89.47
	Ant2	2452	0.35	0.39	89.74
11AX20MIMO	Ant1	2412	1.01	1.05	96.19
	Ant2	2412	1.01	1.05	96.19
	Ant1	2437	1.01	1.05	96.19
	Ant2	2437	1.02	1.05	97.14
	Ant1	2462	1.01	1.05	96.19
	Ant2	2462	1.02	1.05	97.14
11AX40MIMO	Ant1	2422	0.53	0.57	92.98
	Ant2	2422	0.53	0.57	92.98
	Ant1	2437	0.54	0.57	94.74
	Ant2	2437	0.53	0.57	92.98
	Ant1	2452	0.54	0.57	94.74
	Ant2	2452	0.53	0.57	92.98

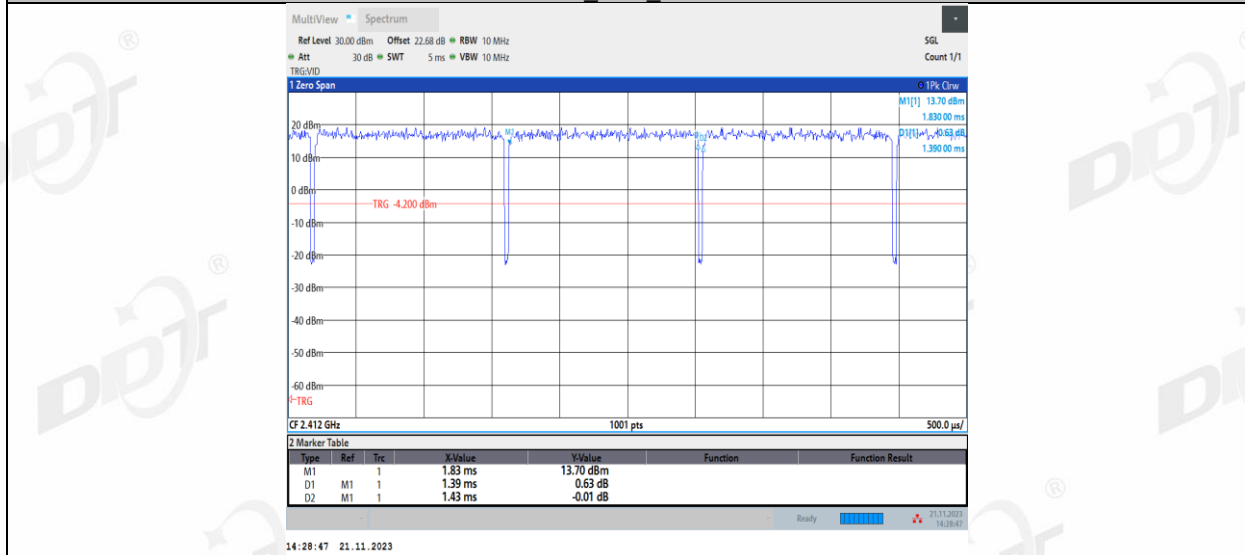
10.5. Test graphs



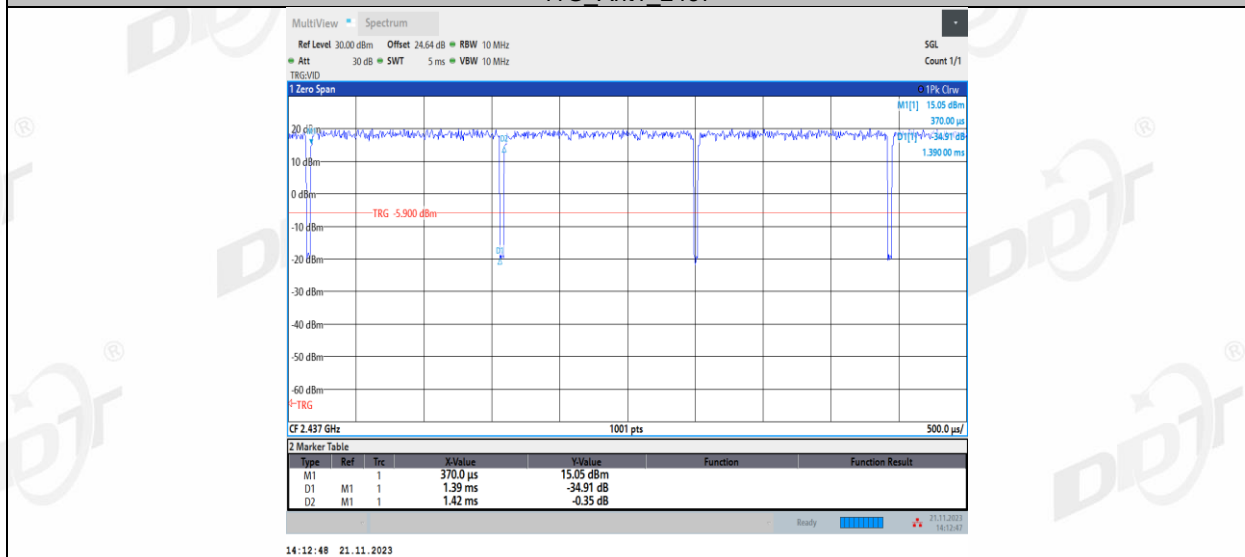




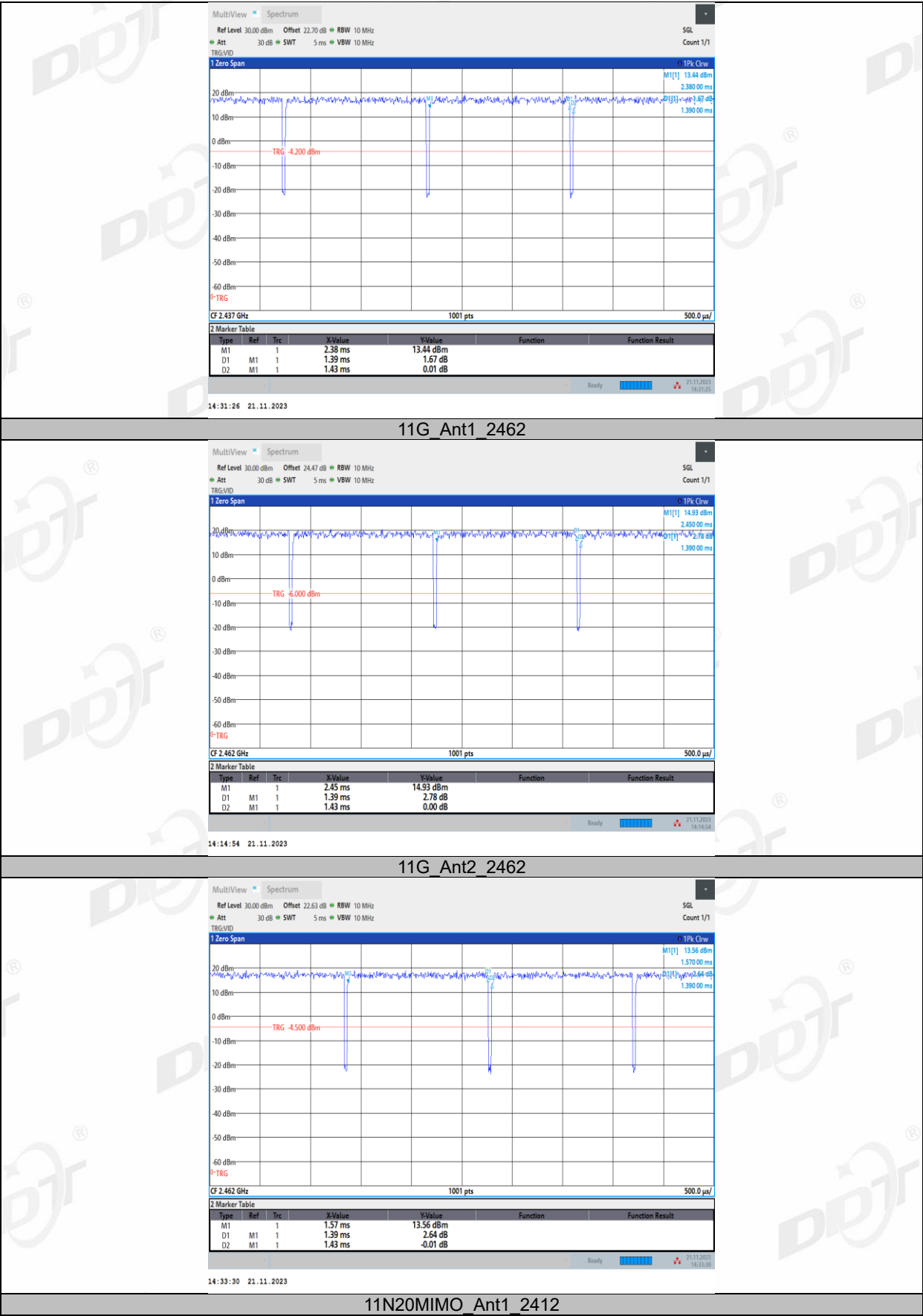
11G_Ant2_2412

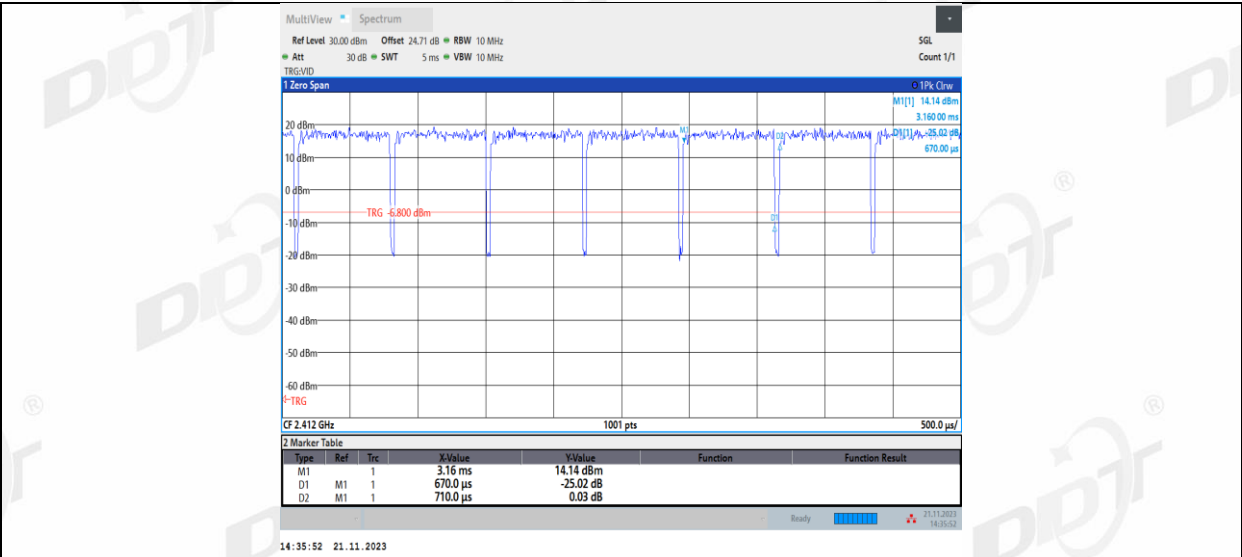


11G_Ant1_2437

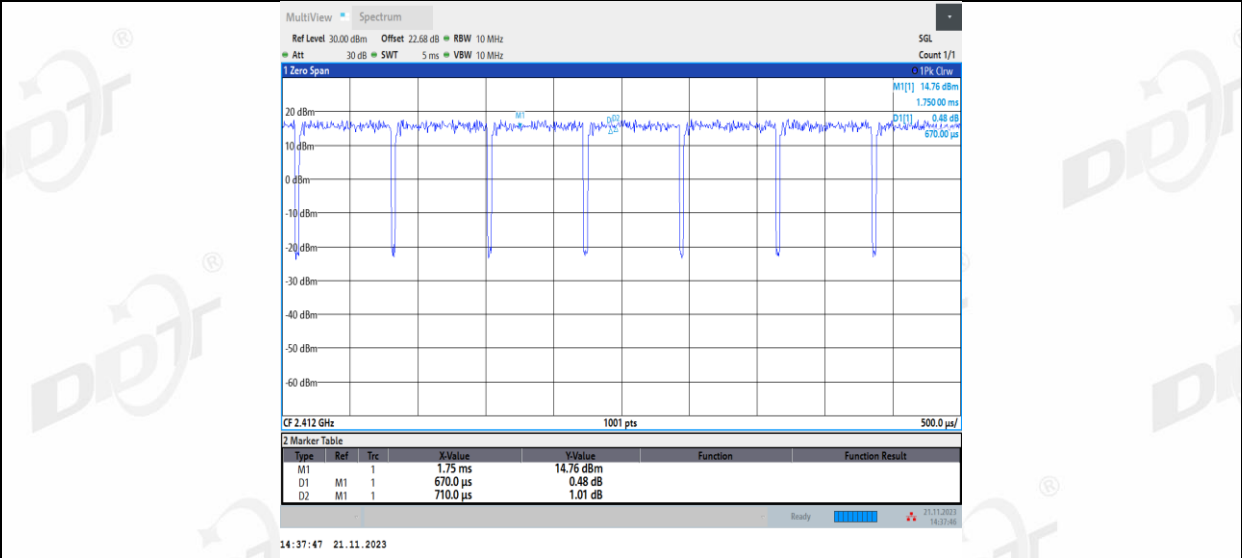


11G_Ant2_2437

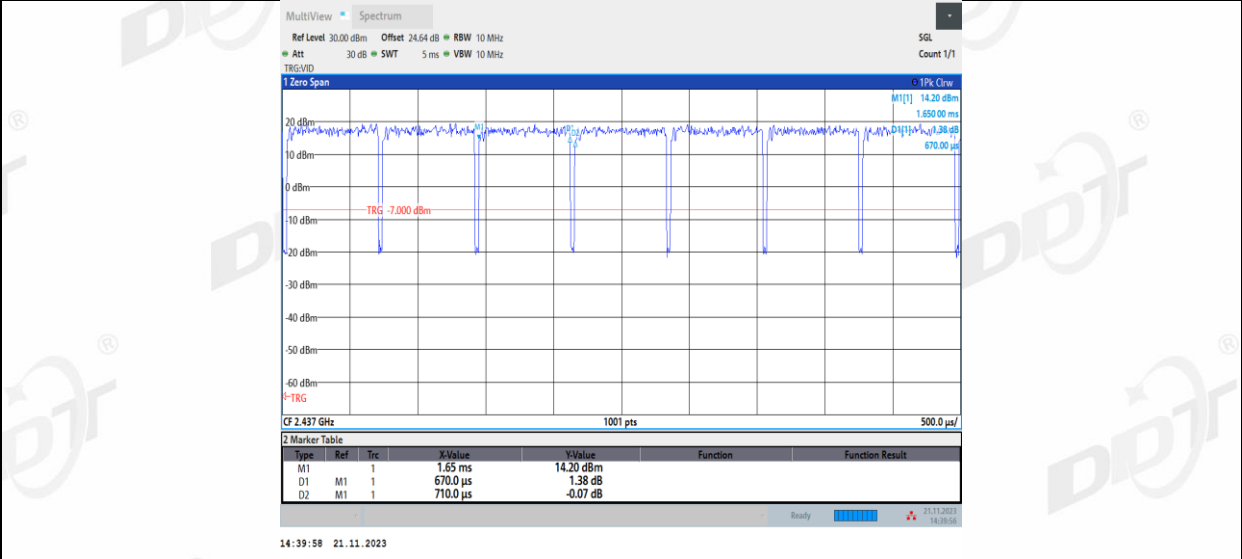




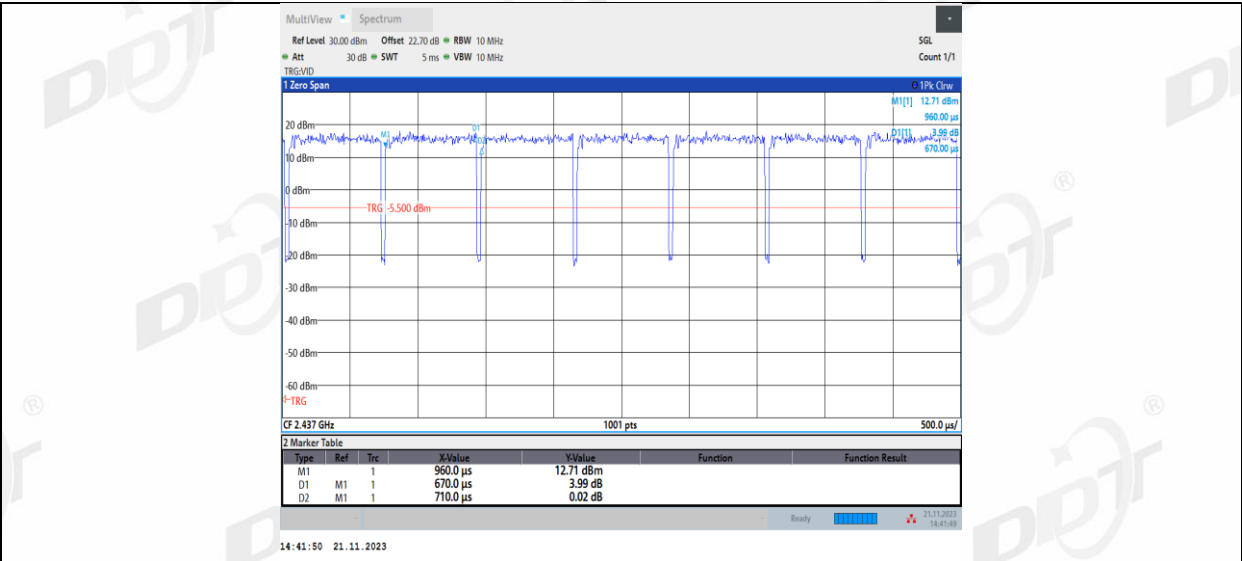
11N20MIMO_Ant2_2412



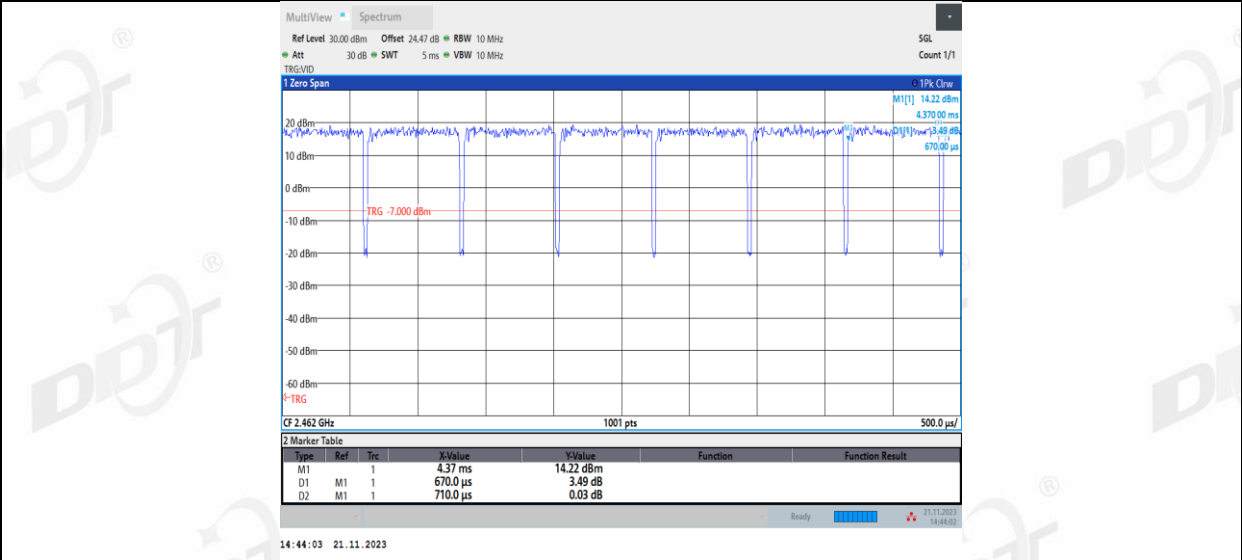
11N20MIMO_Ant1_2437



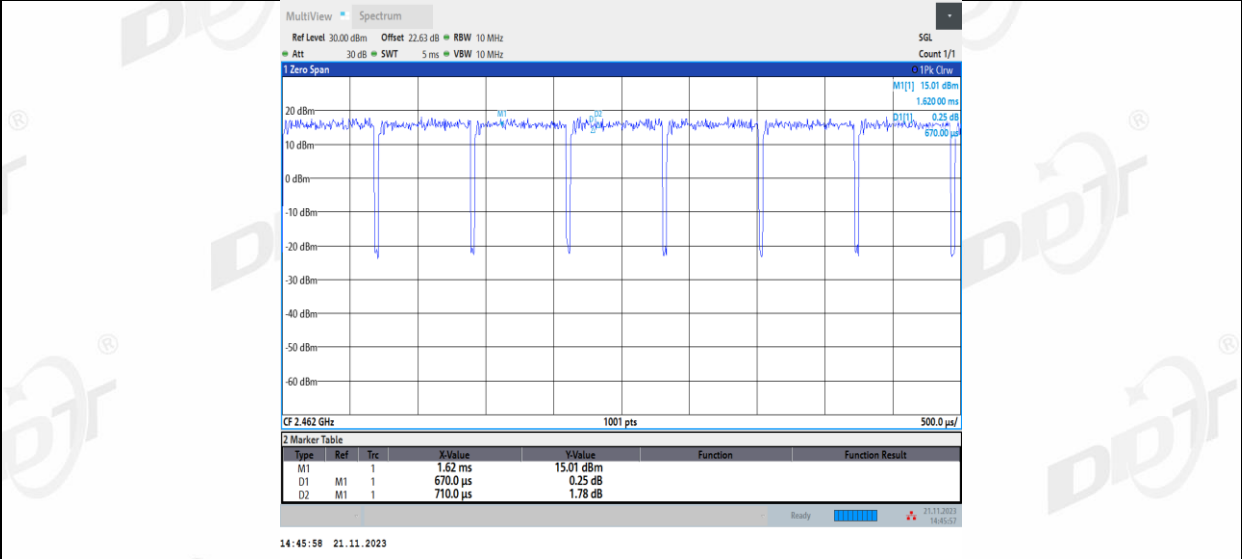
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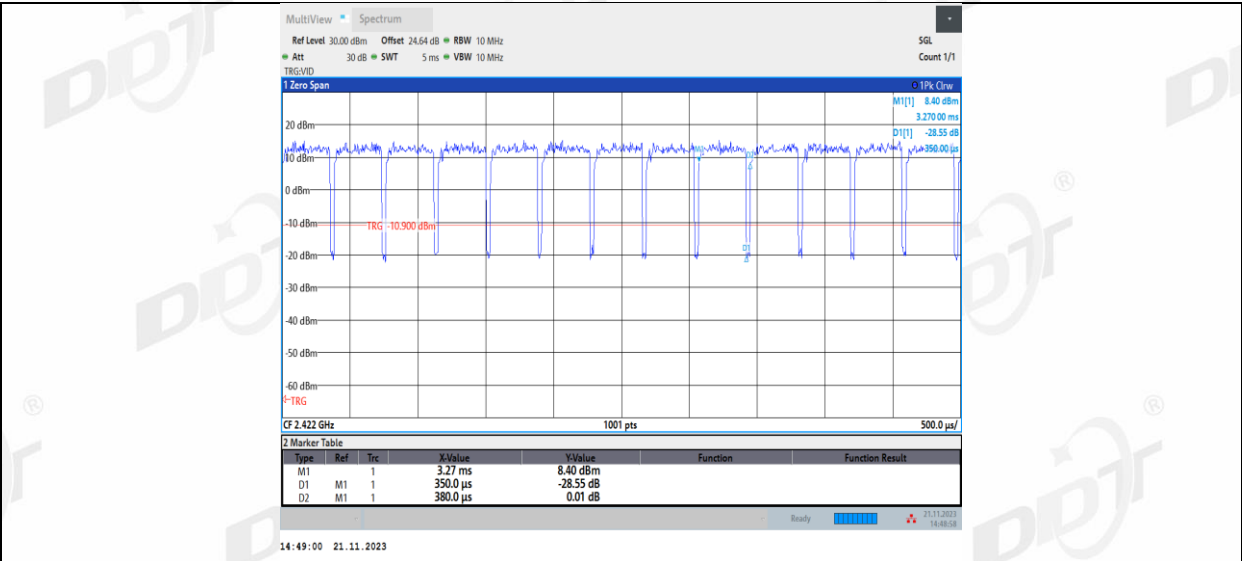
11N20MIMO_Ant1_2462



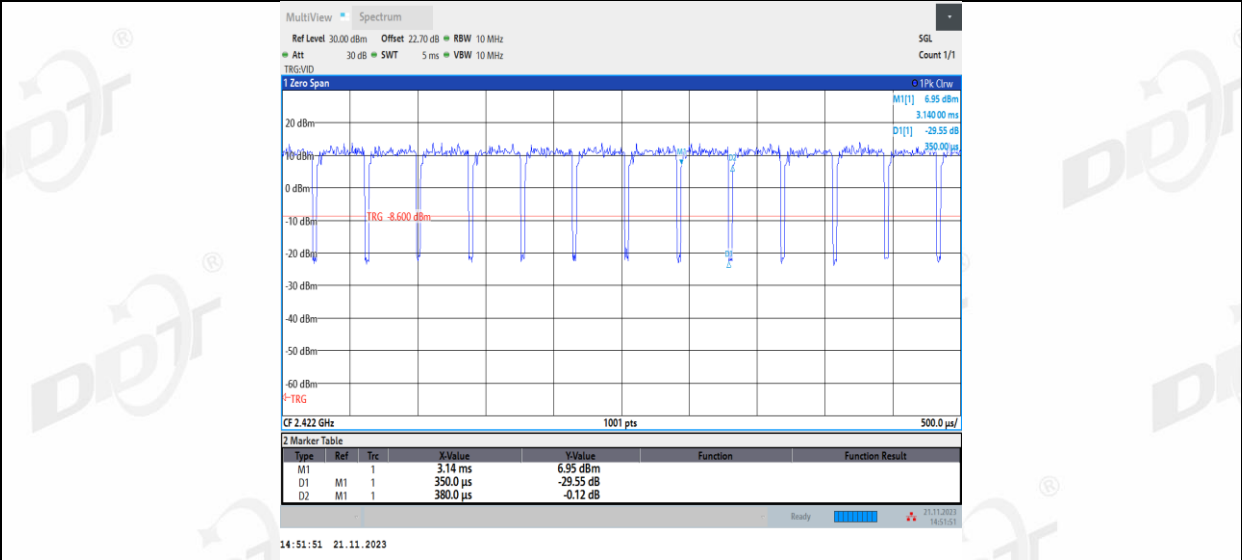
11N20MIMO_Ant2_2462



11N40MIMO_Ant1_2422



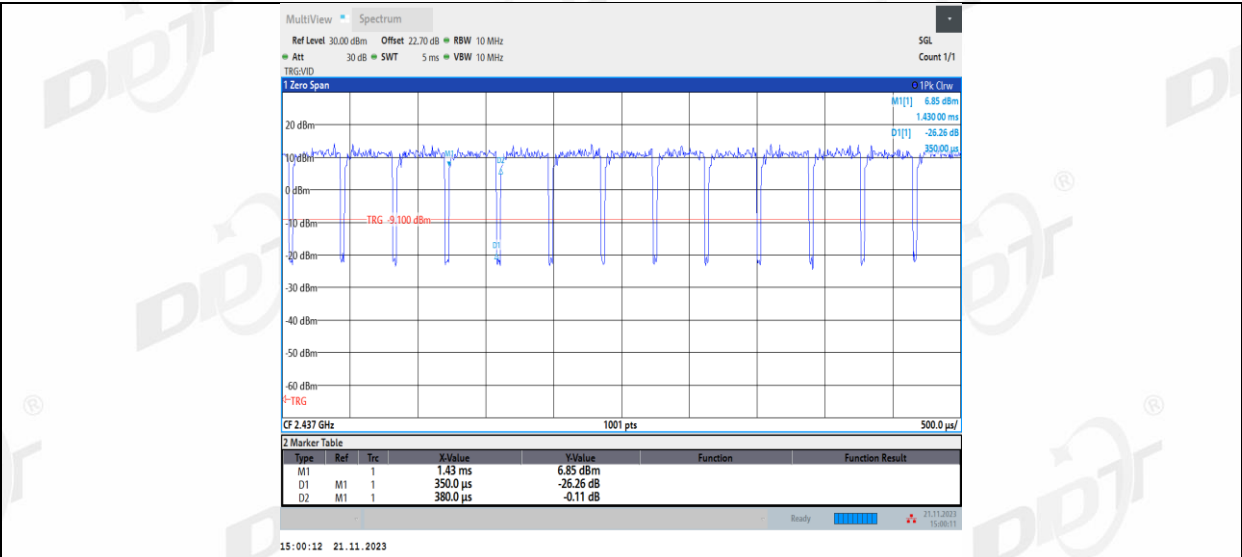
11N40MIMO_Ant2_2422



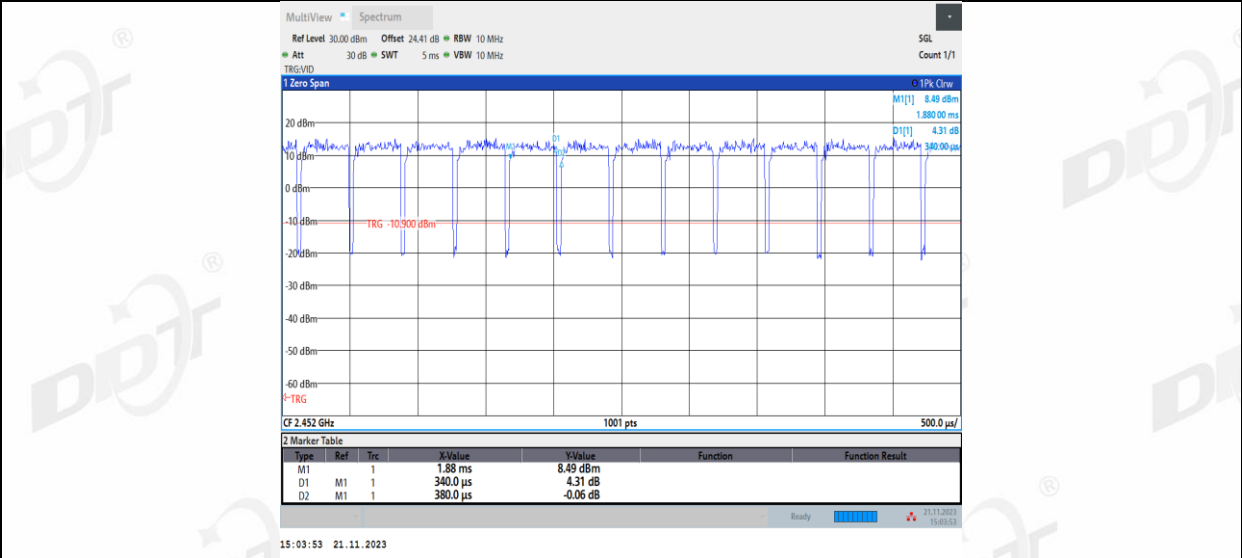
11N40MIMO_Ant1_2437



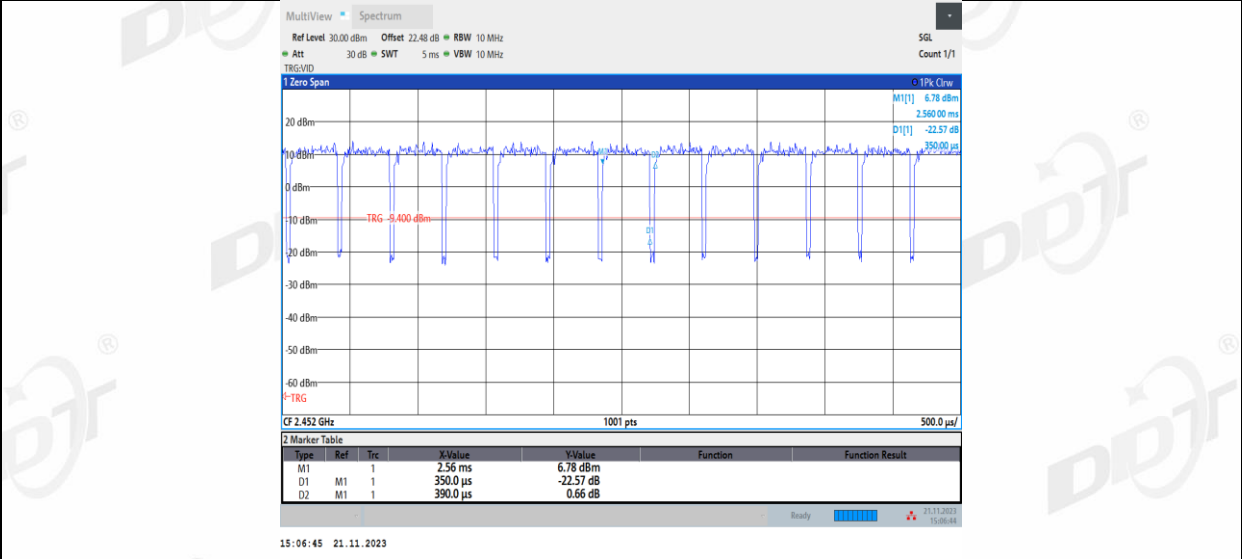
11N40MIMO_Ant2_2437



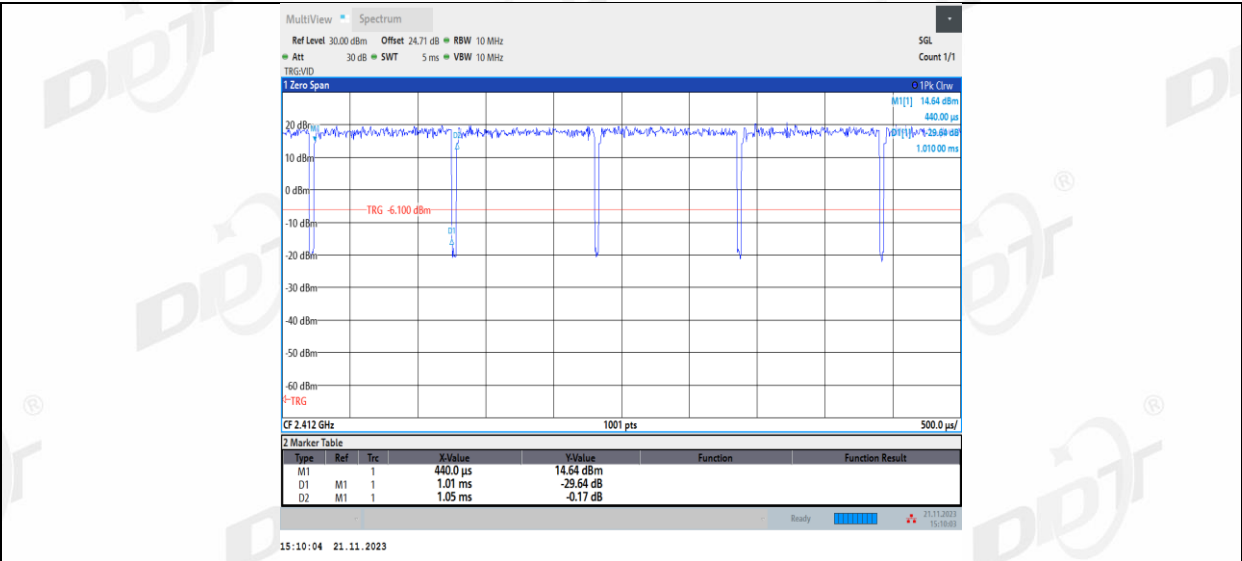
11N40MIMO_Ant1_2452



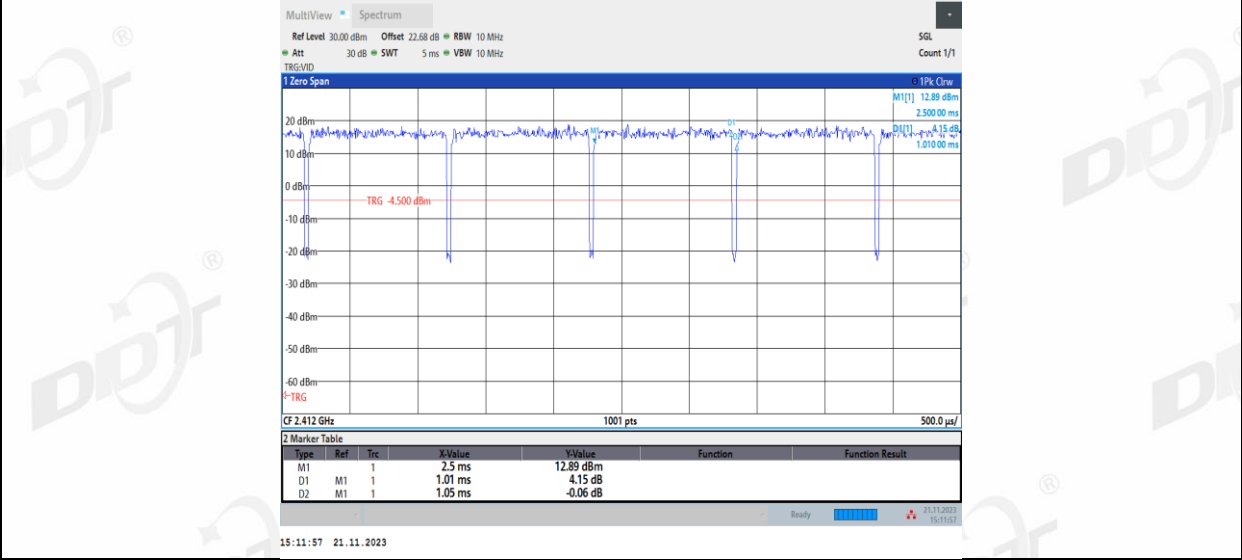
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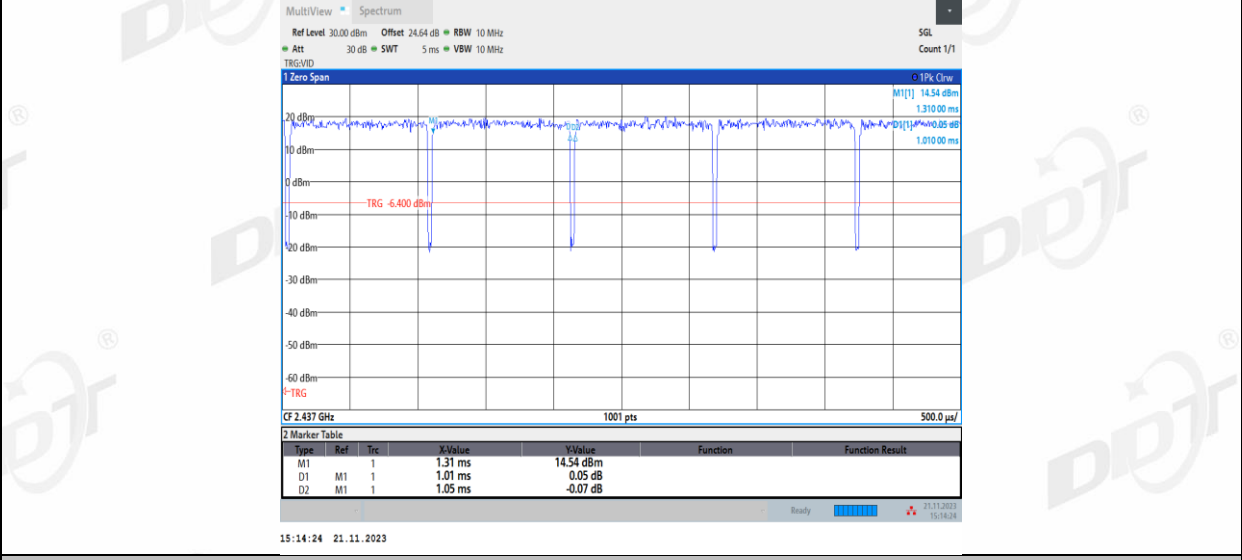
11AX20MIMO_Ant1_2412



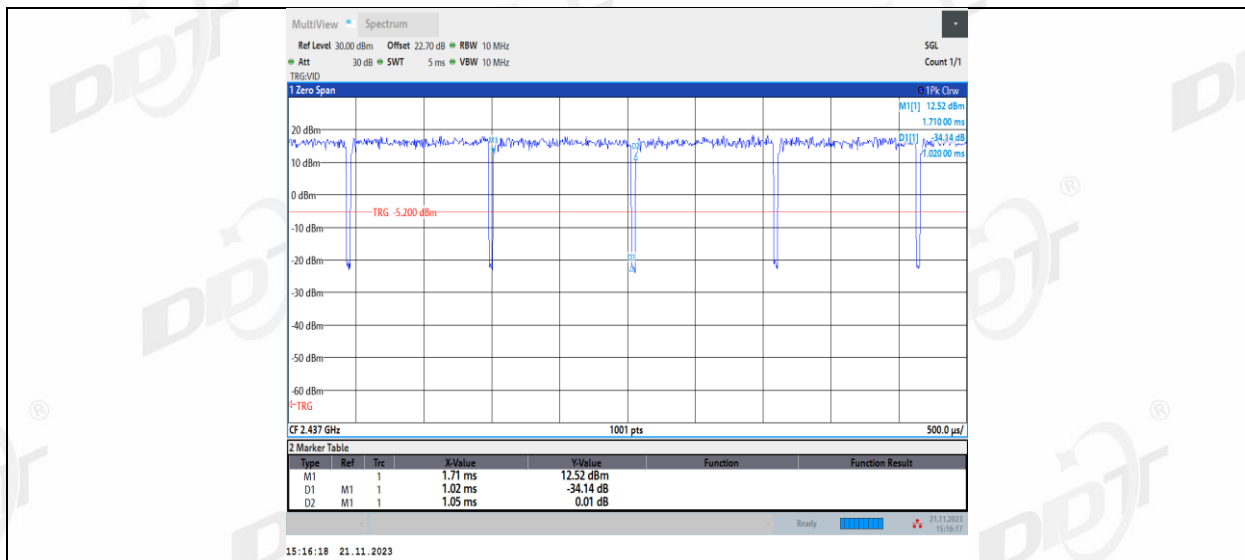
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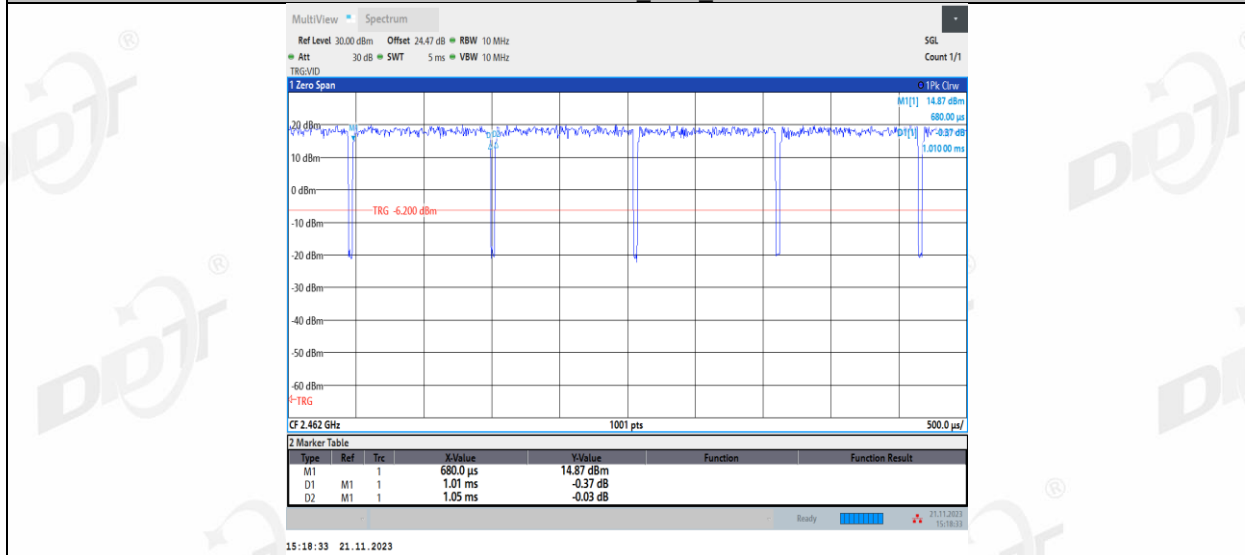
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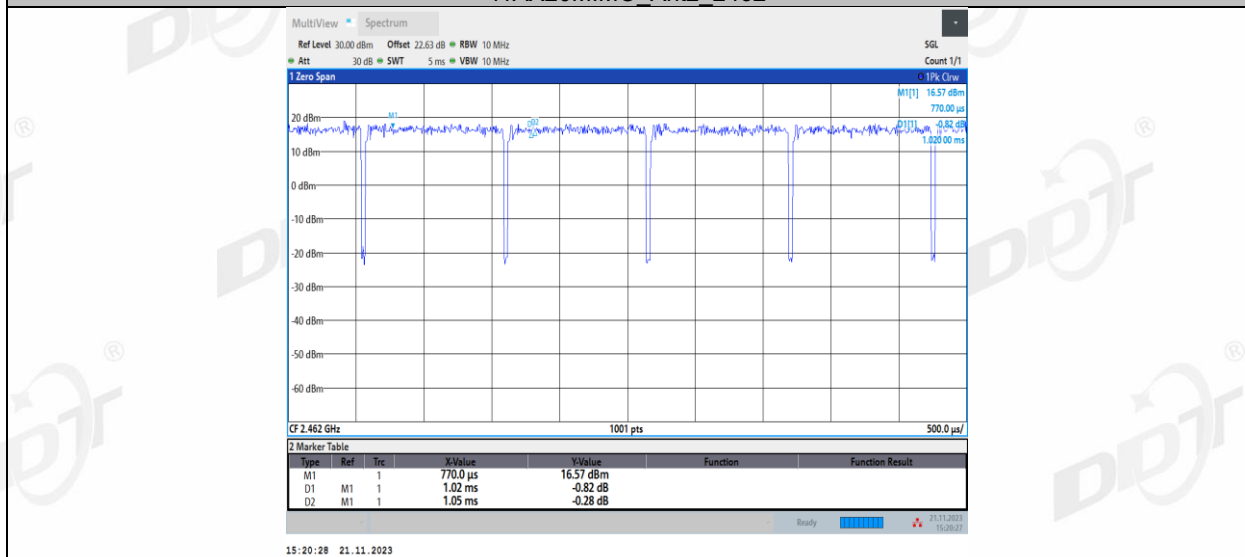
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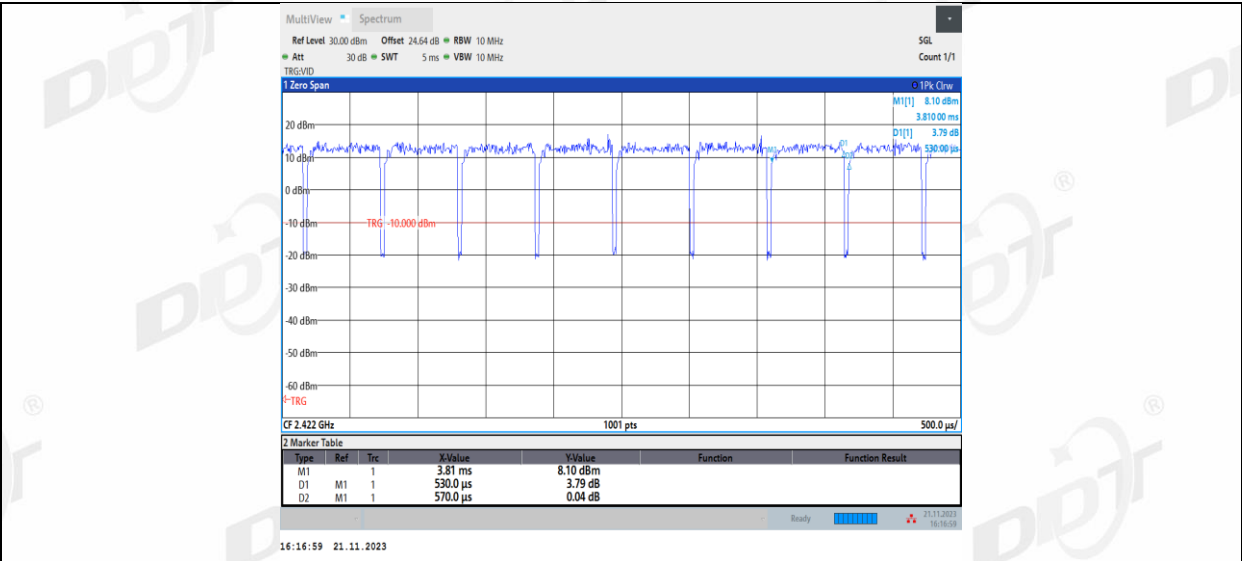
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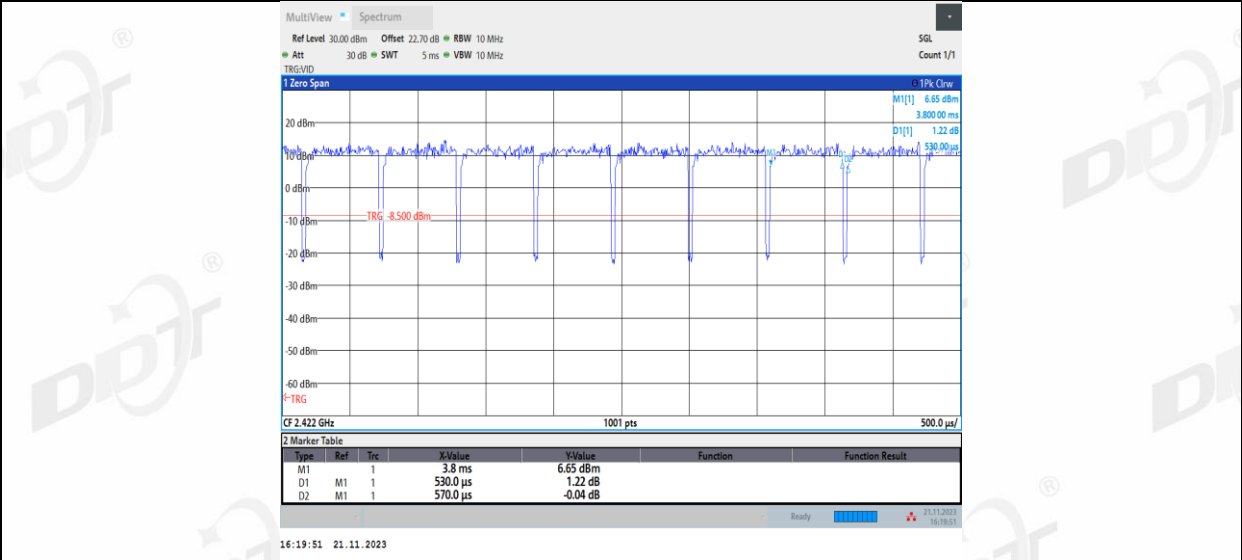
11AX20MIMO_Ant2_2462



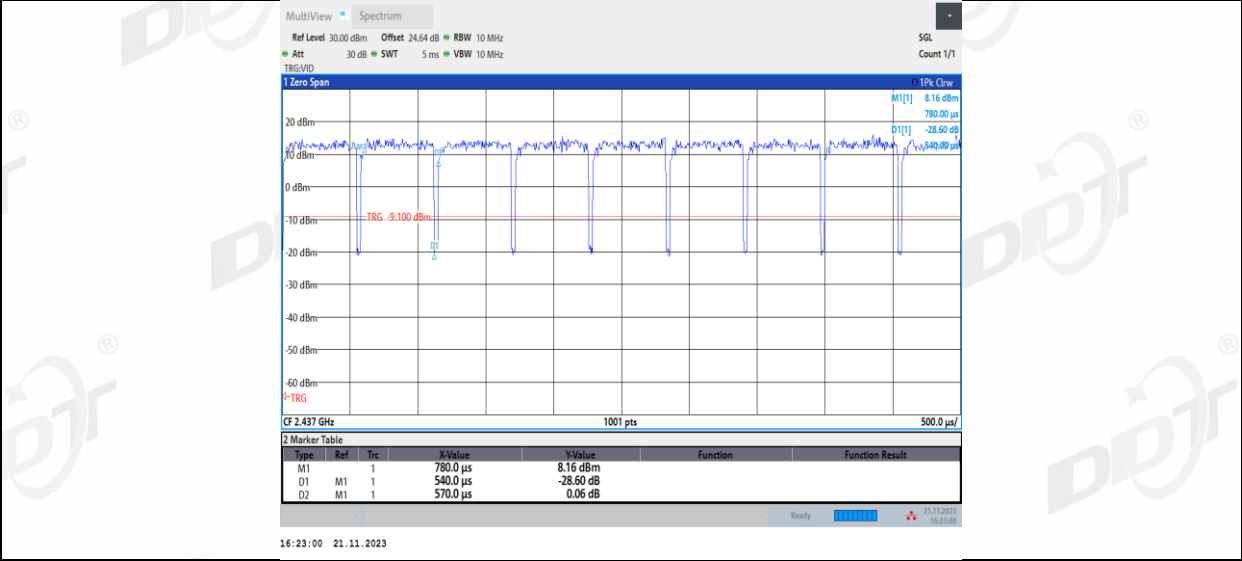
11AX40MIMO_Ant1_2422



11AX40MIMO_Ant2_2422



11AX40MIMO_Ant1_2437



11AX40MIMO_Ant2_2437