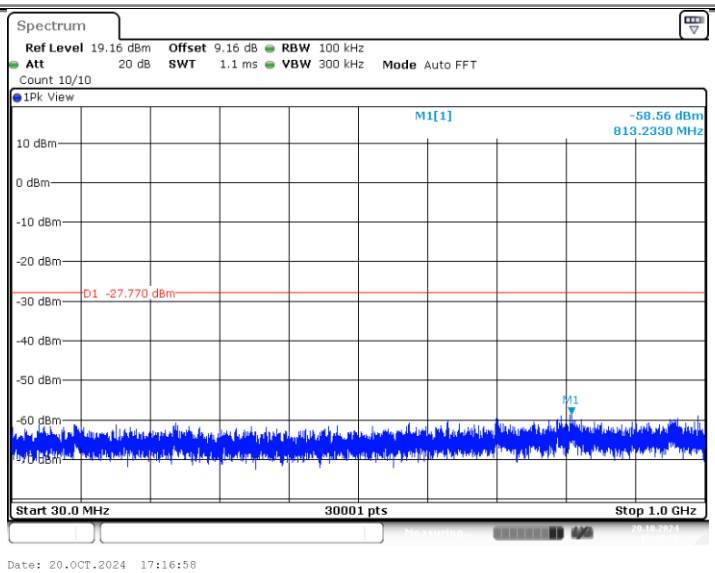
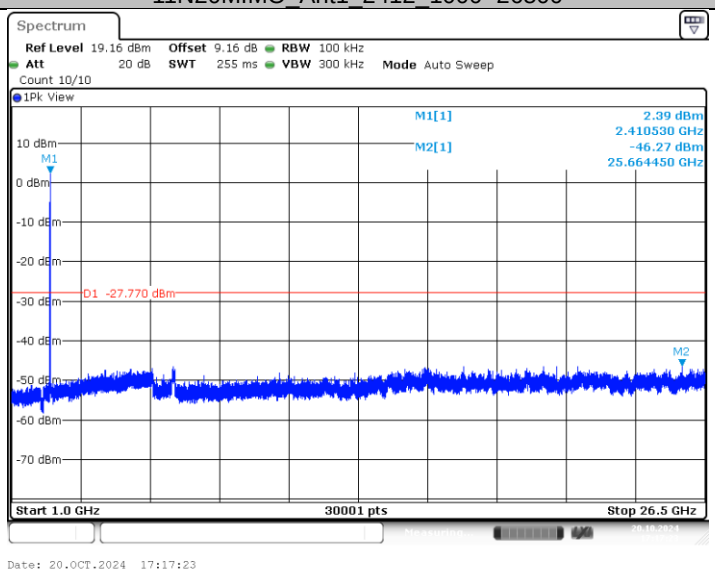
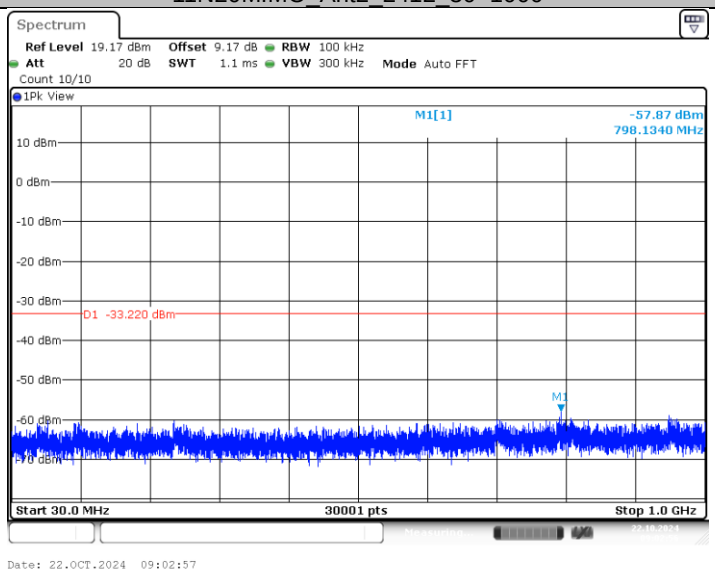


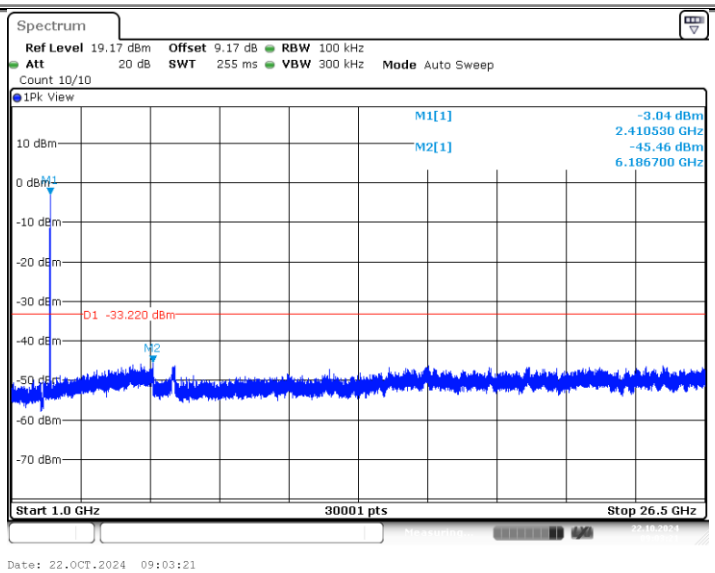
11N20MIMO_Ant1_2412_1000~26500



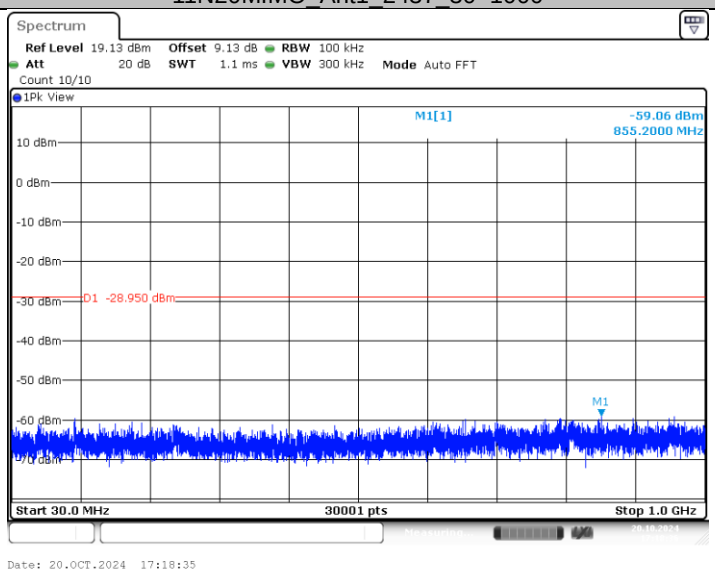
11N20MIMO_Ant2_2412_30~1000



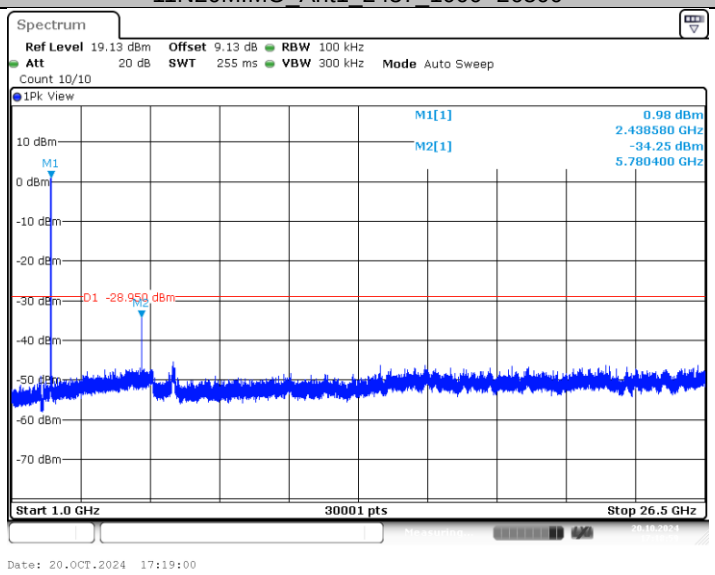
11N20MIMO_Ant2_2412_1000~26500



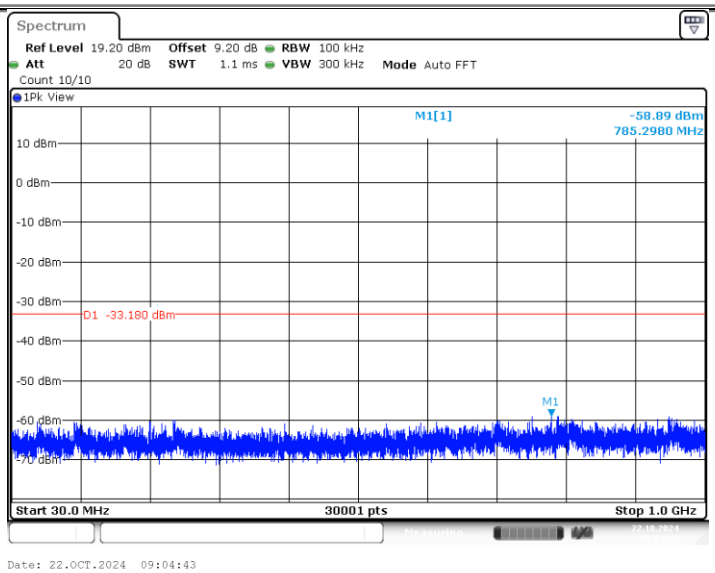
11N20MIMO_Ant1_2437_30~1000



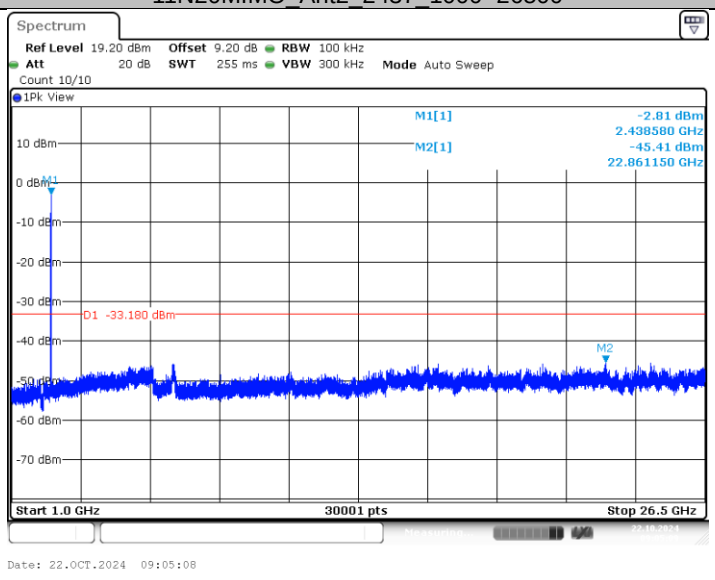
11N20MIMO_Ant1_2437_1000~26500



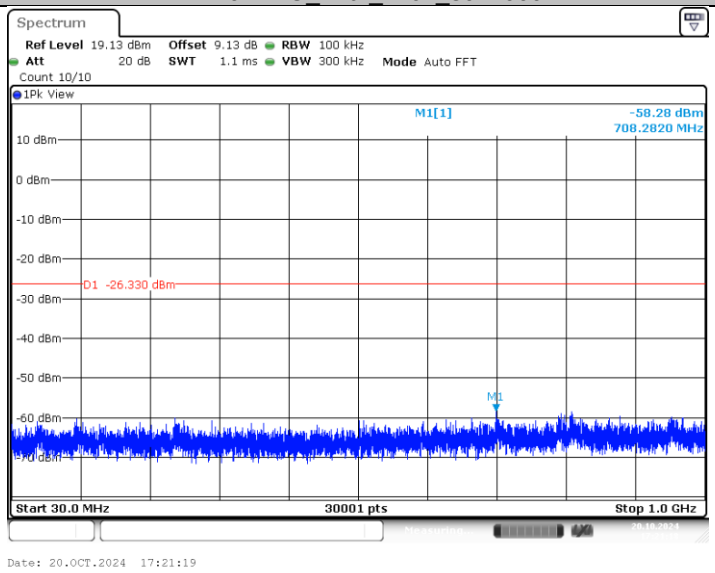
11N20MIMO_Ant2_2437_30~1000



11N20MIMO_Ant2_2437_1000~26500



11N20MIMO_Ant1_2462_30~1000



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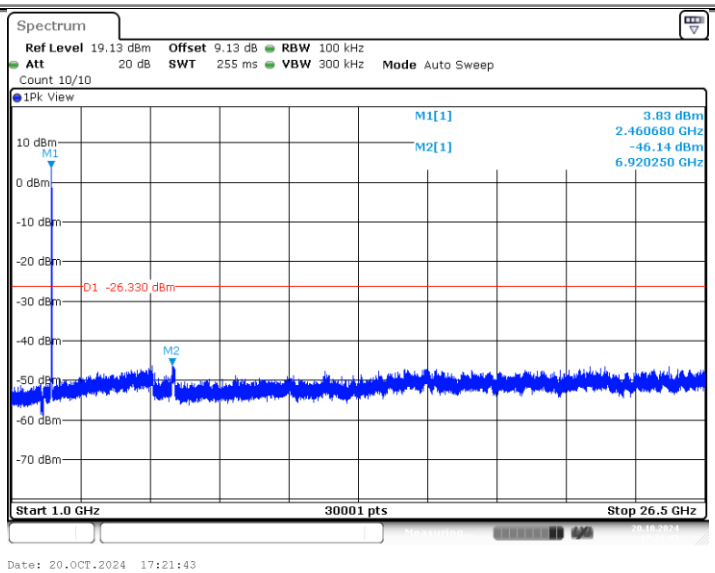

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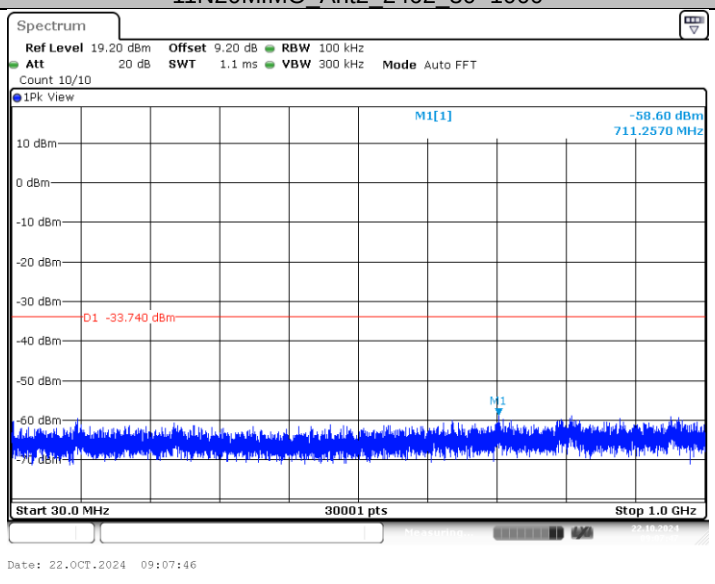

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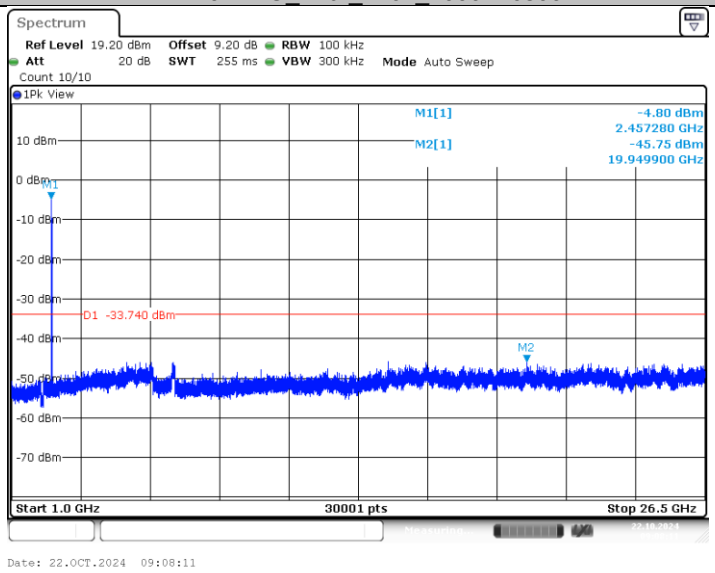
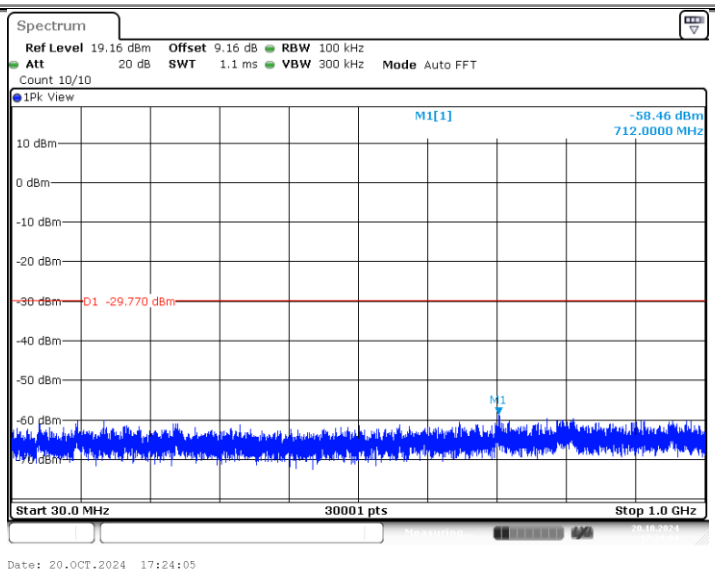


11N40MIMO_Ant1_2422_30~1000



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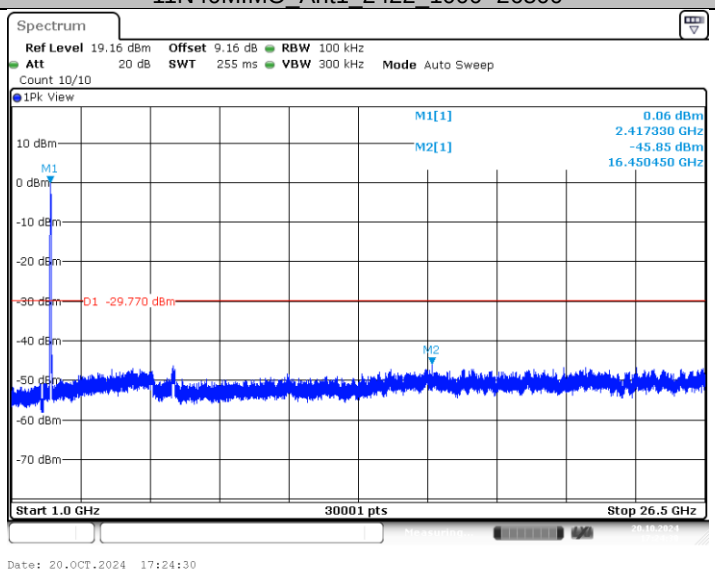

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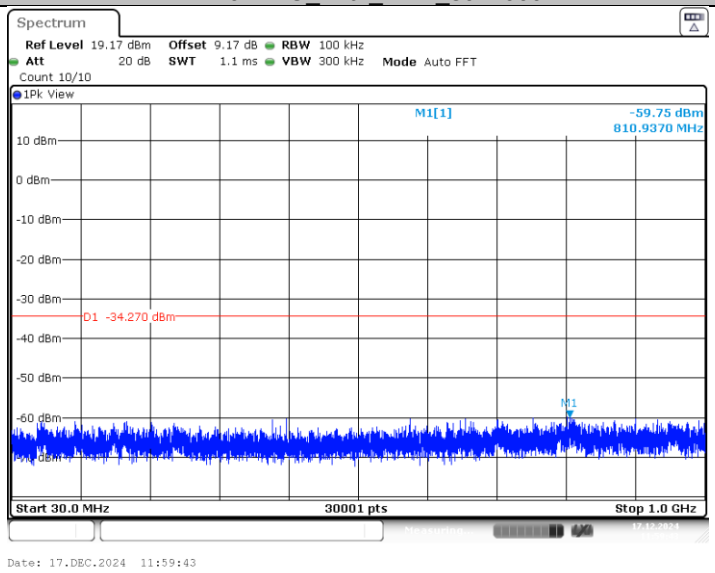
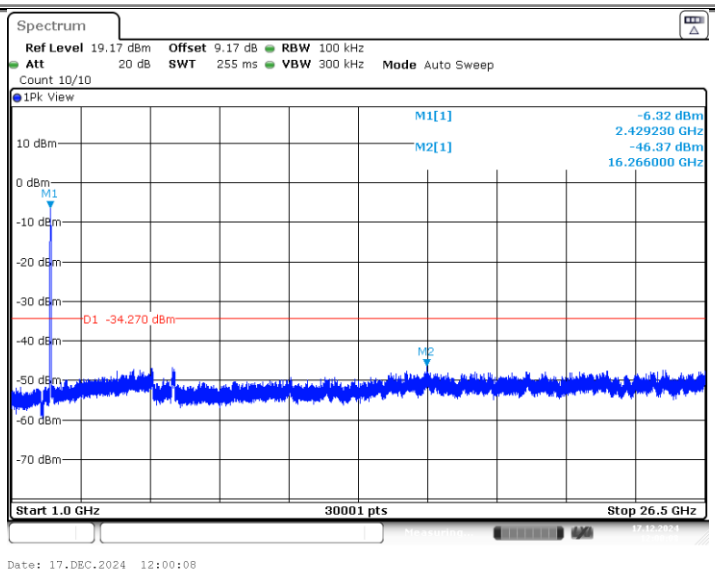
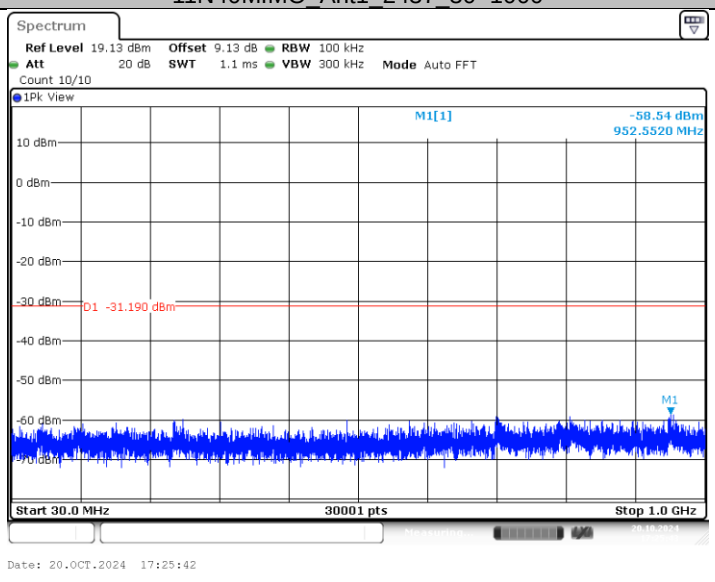


11N40MIMO_Ant2_2422_1000~26500



11N40MIMO_Ant1_2437_30~1000



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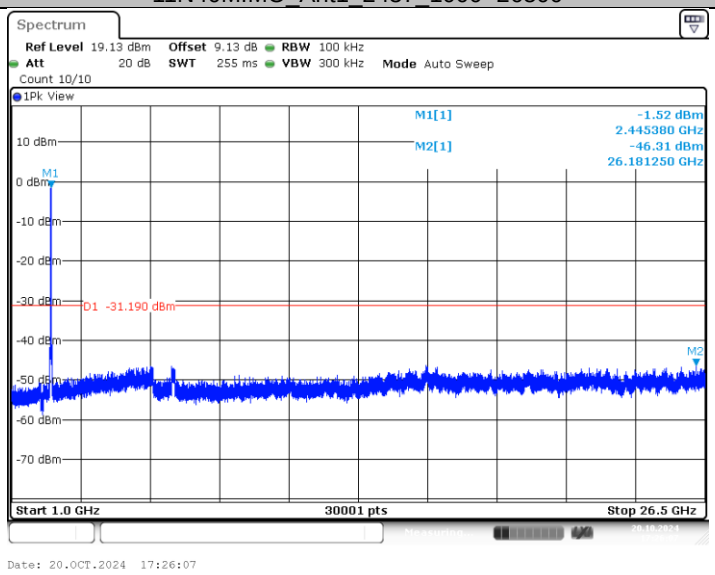
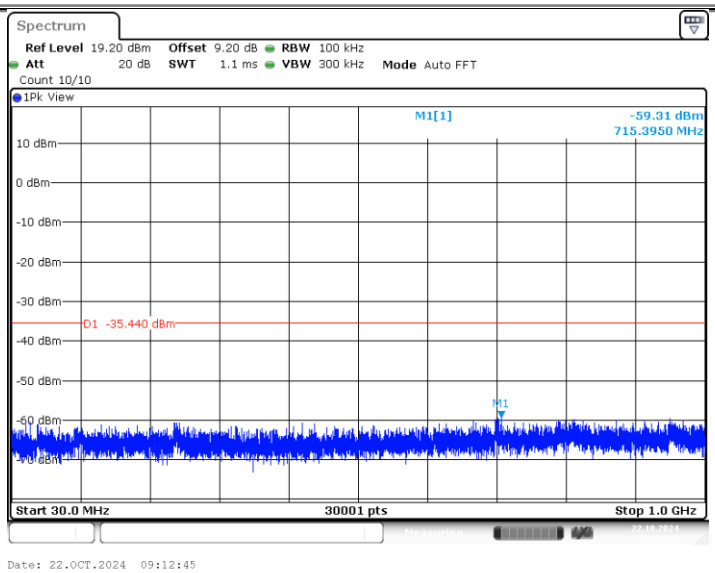


11N40MIMO_Ant2_2437_30~1000



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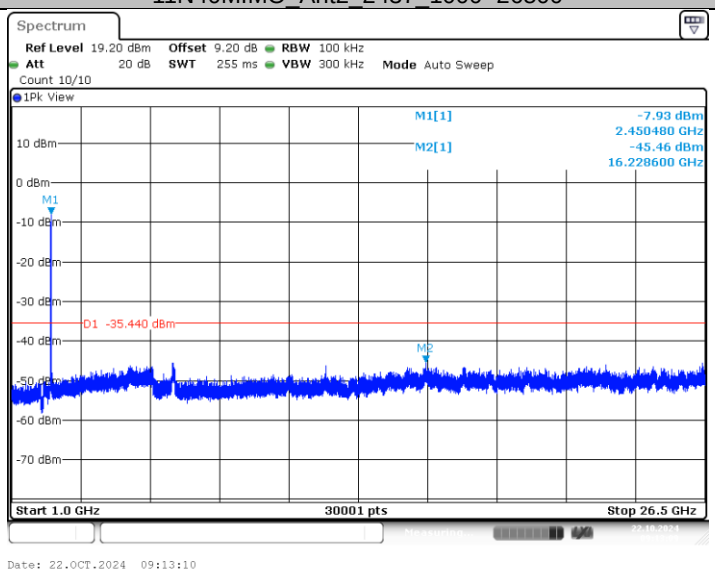

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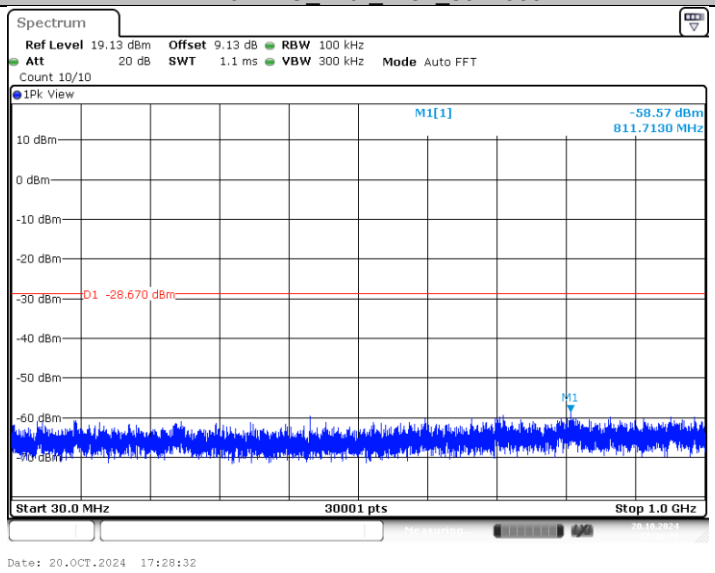
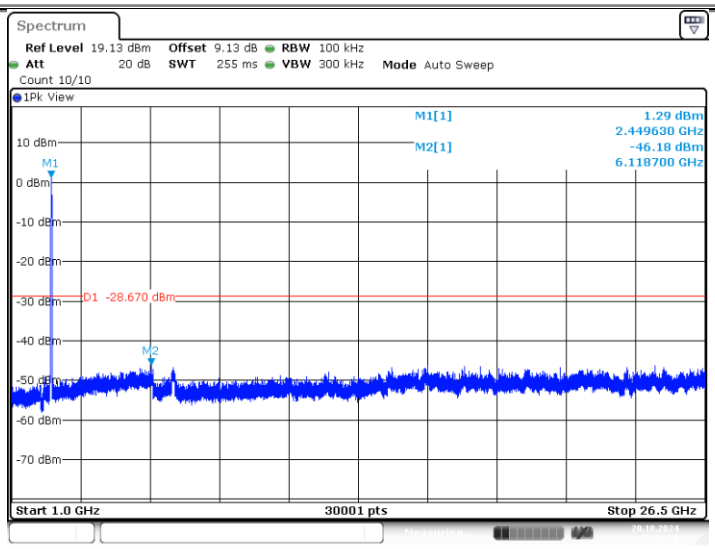


11N40MIMO_Ant1_2452_1000~26500



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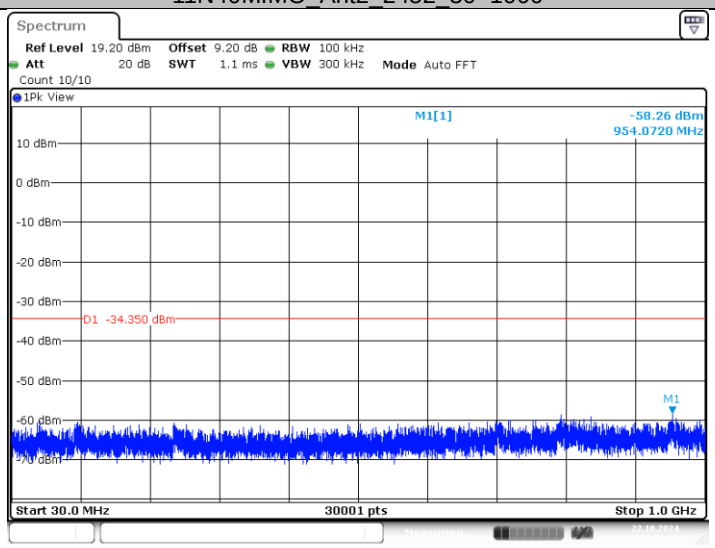
11N40MIMO_Ant2_2452_30~1000



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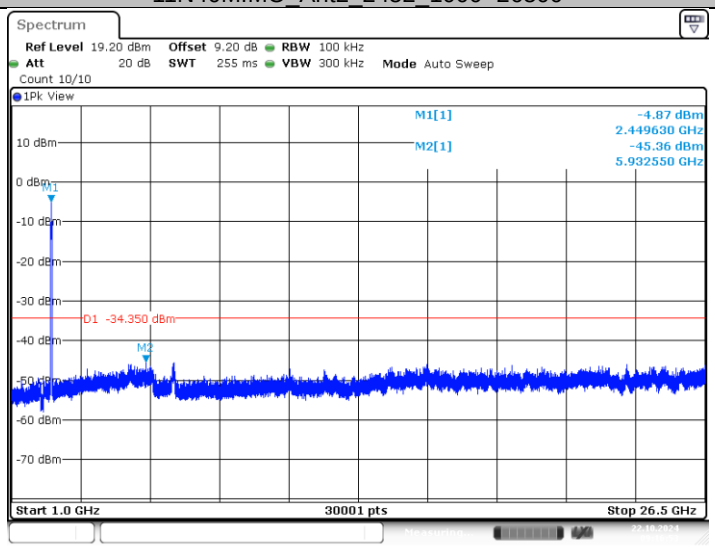
11N40MIMO_Ant2_2452_1000~26500



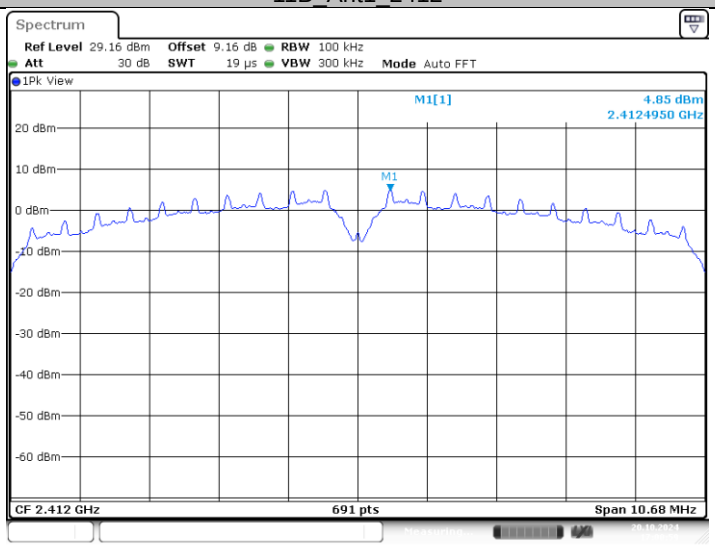
Date: 22.OCT.2024 09:16:53

2. Band edge measurements

Reference level measurement

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
11B	Ant1	2412	2412.50	4.85
	Ant2	2412	2412.50	1.36
	Ant1	2437	2437.49	4.55
	Ant2	2437	2438.00	1.27
	Ant1	2462	2461.50	4.47
	Ant2	2462	2461.50	-0.65
11G	Ant1	2412	2410.73	2.20
	Ant2	2412	2413.28	-4.53
	Ant1	2437	2435.73	1.46
	Ant2	2437	2438.25	-3.10
	Ant1	2462	2463.24	1.79
	Ant2	2462	2460.71	-3.82
11N20MIMO	Ant1	2412	2410.74	2.23
	Ant2	2412	2410.73	-3.22
	Ant1	2437	2435.72	1.05
	Ant2	2437	2435.74	-3.18
	Ant1	2462	2463.25	3.67
	Ant2	2462	2460.73	-3.74
11N40MIMO	Ant1	2422	2416.99	0.23
	Ant2	2422	2425.75	-4.27
	Ant1	2437	2441.97	-1.19
	Ant2	2437	2442.02	-5.44
	Ant1	2452	2449.50	1.33
	Ant2	2452	2449.46	-4.35

11B_Ant1_2412



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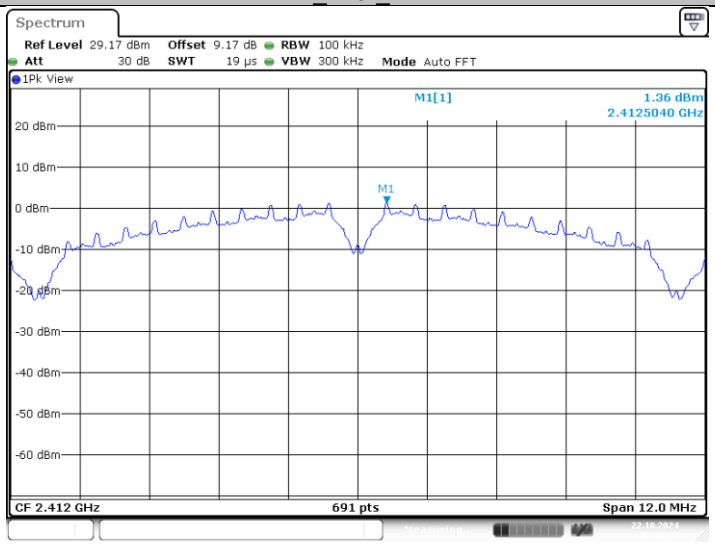
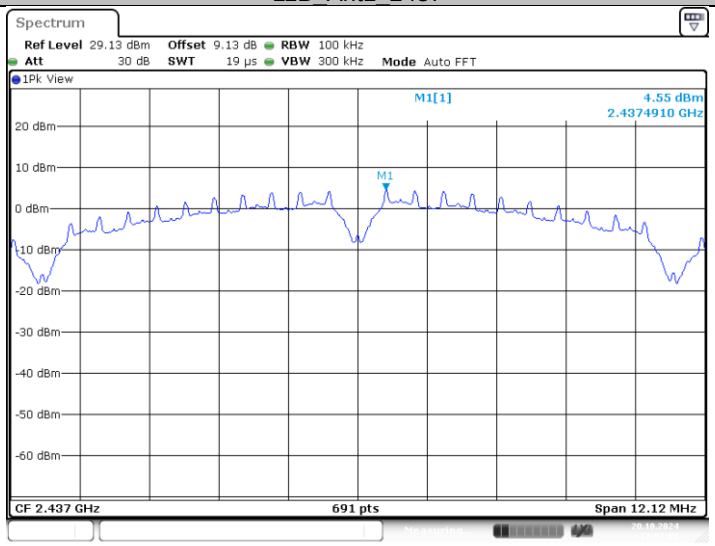
11B_Ant2_2412



Date: 22.OCT.2024 08:46:03

11B_Ant1_2437



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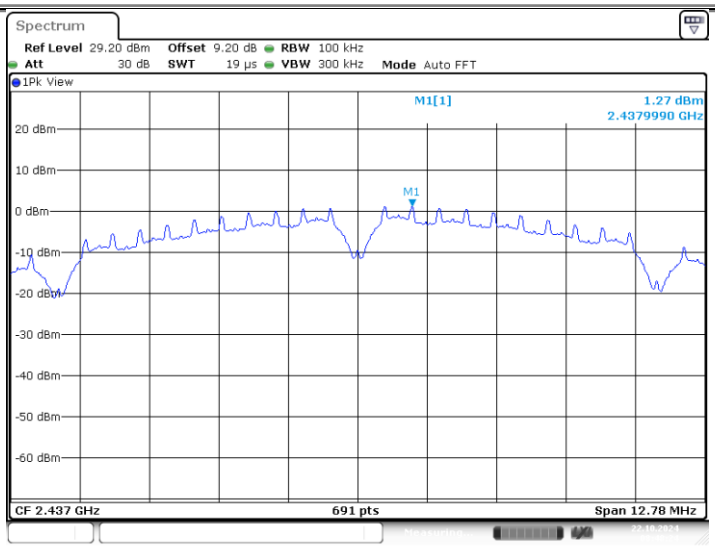
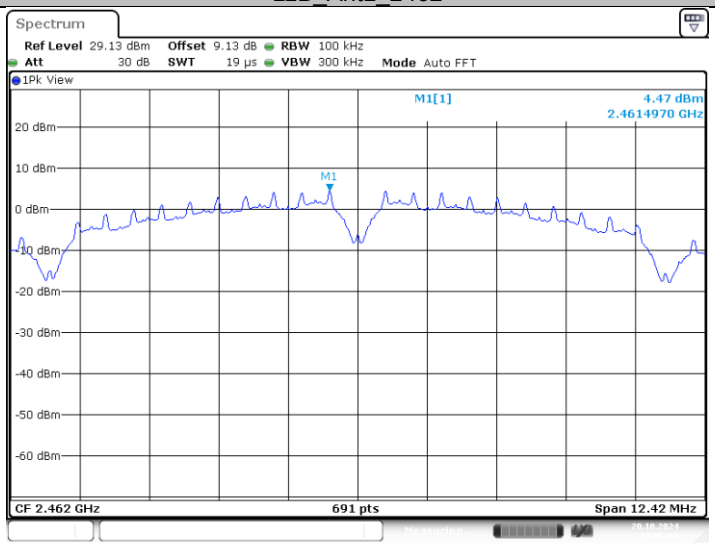


11B_Ant1_2462



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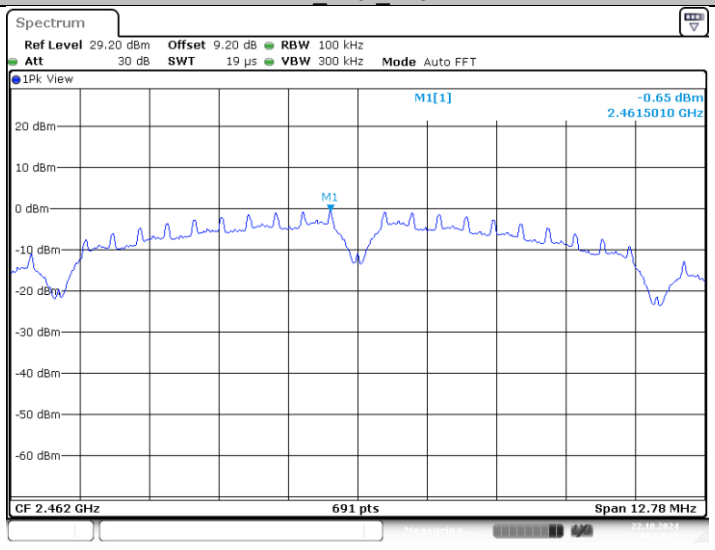
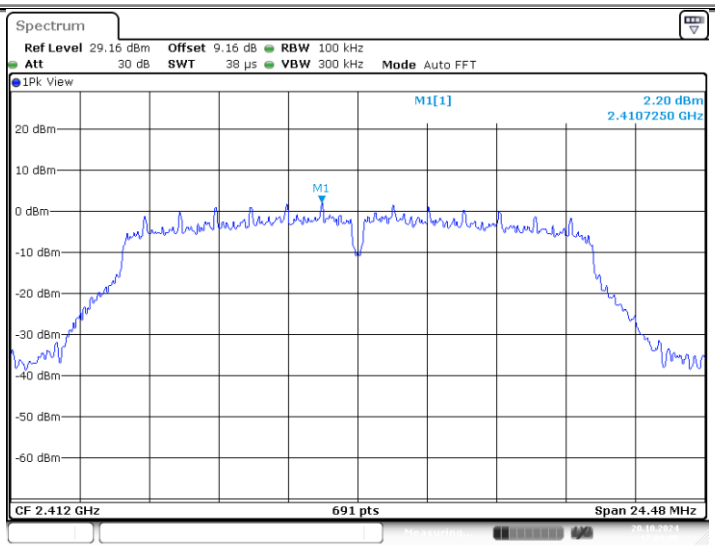


11G_Ant1_2412



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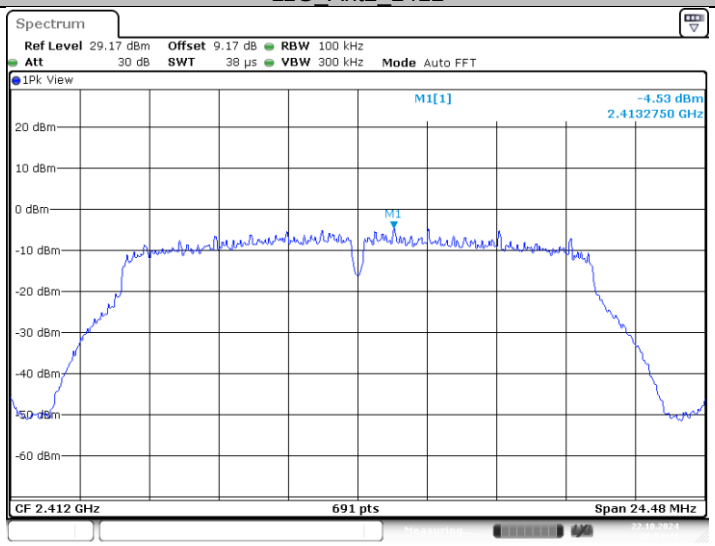

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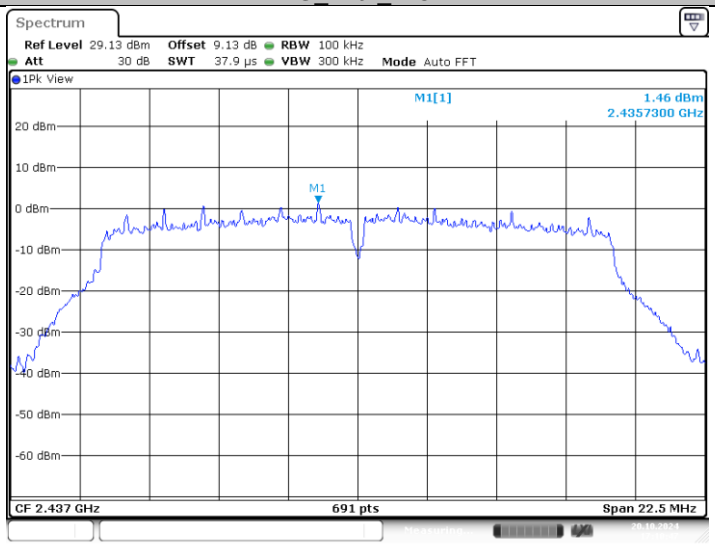

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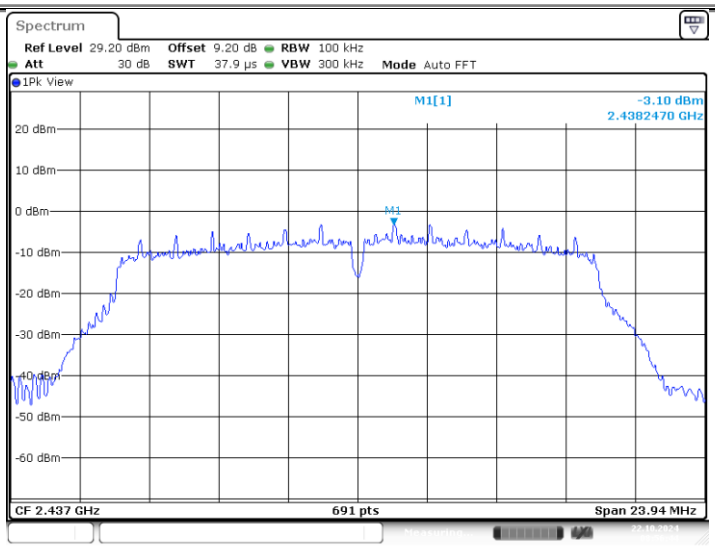
11G_Ant2_2437



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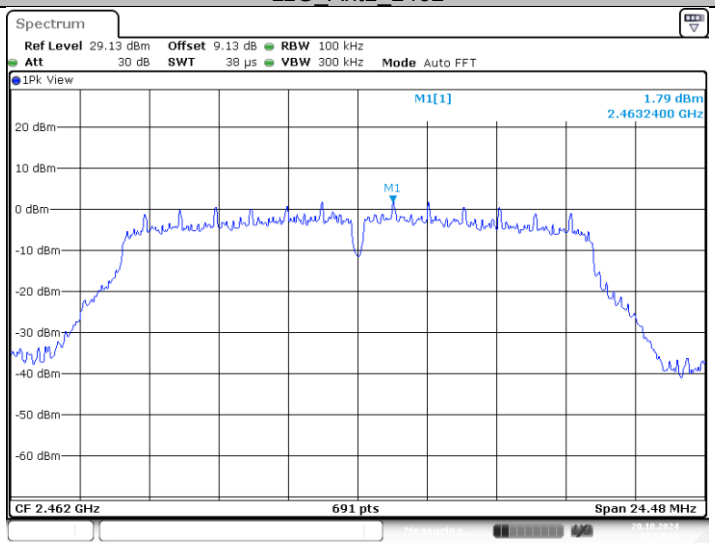
11G_Ant1_2462



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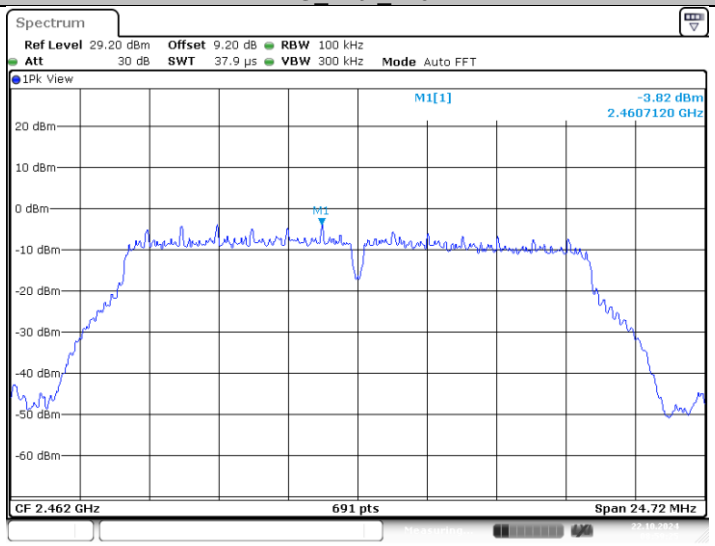

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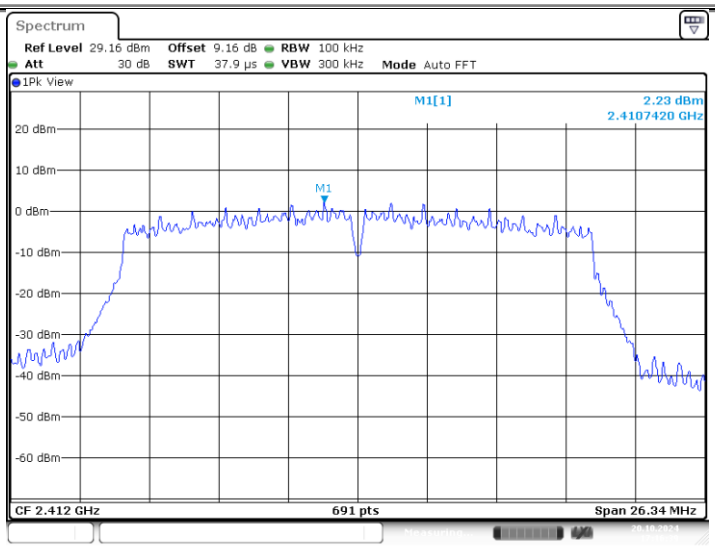
11N20MIMO_Ant1_2412



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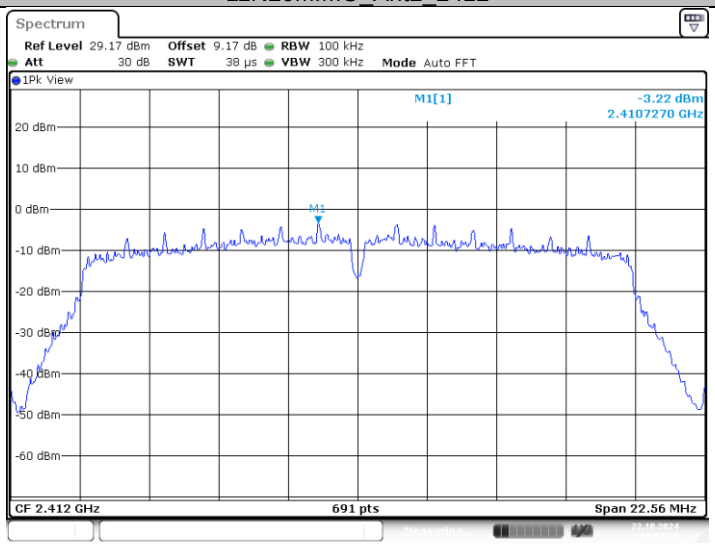
11N20MIMO_Ant2_2412



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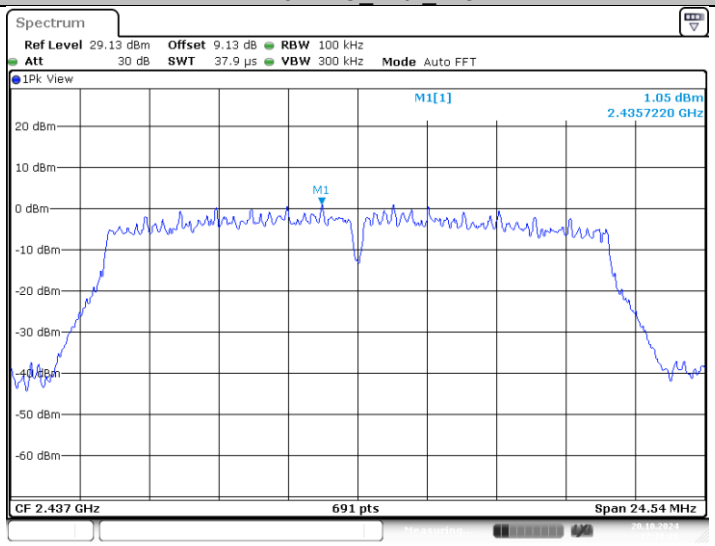

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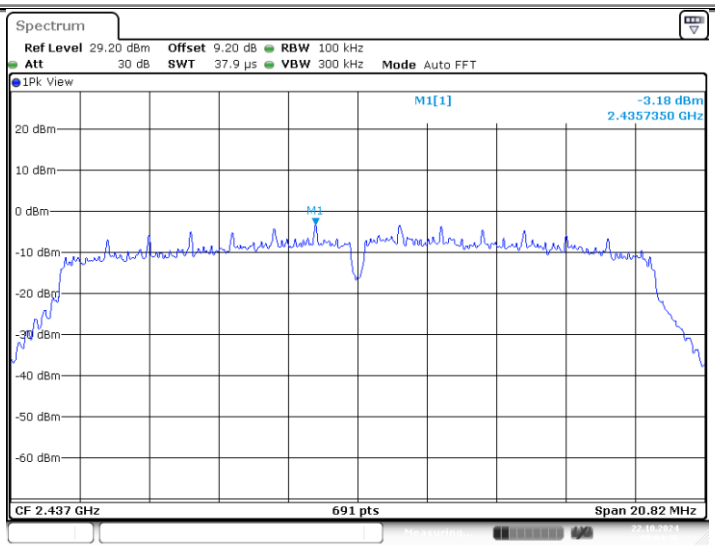

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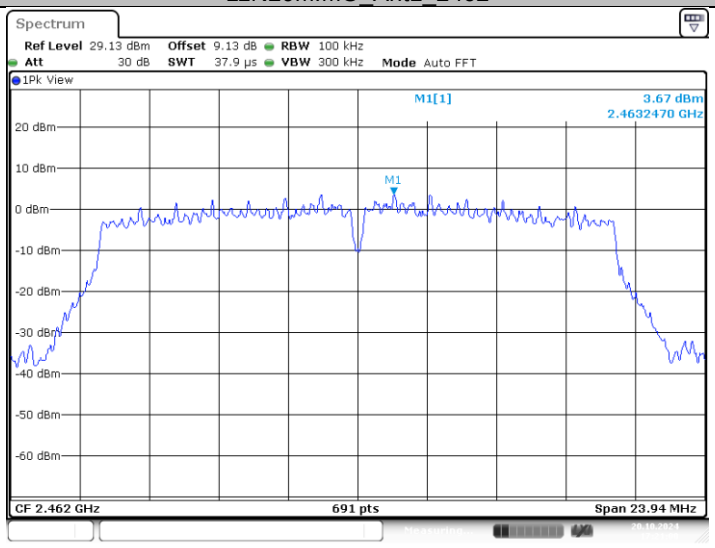

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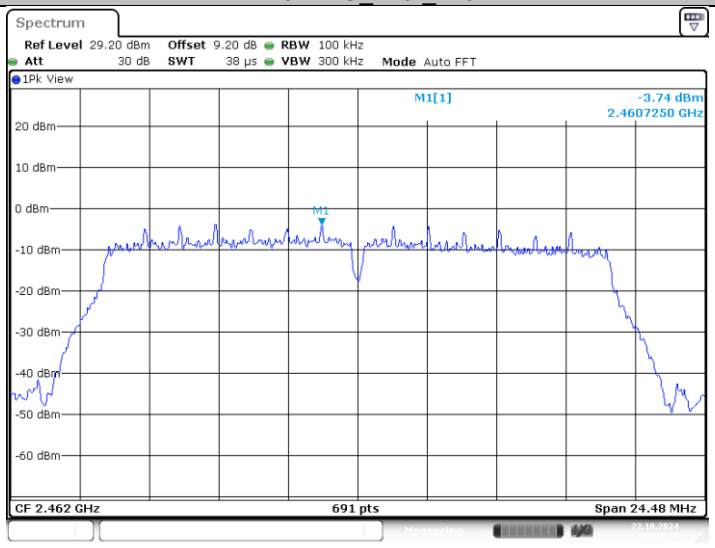

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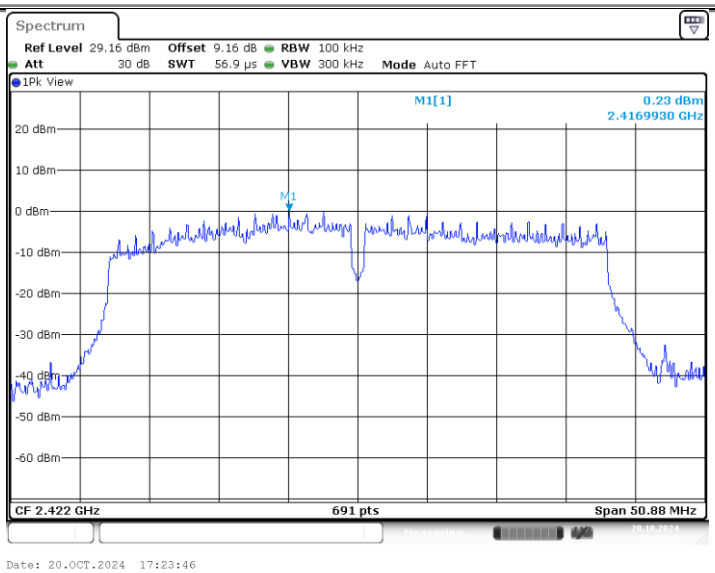

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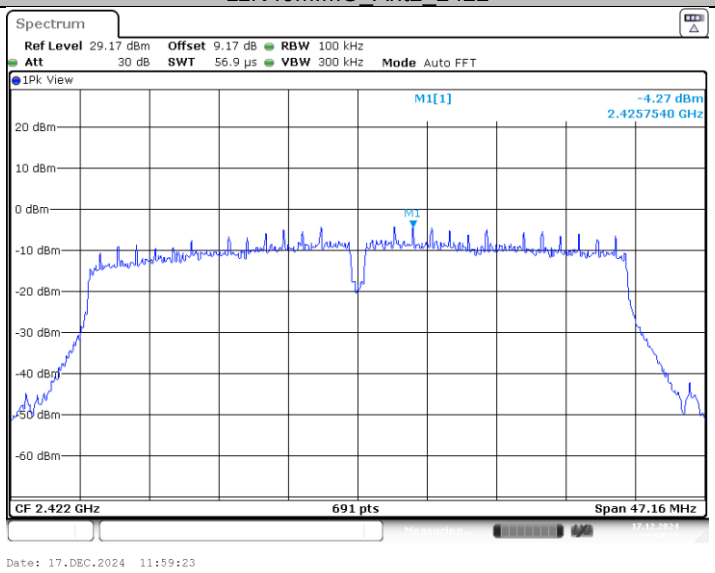

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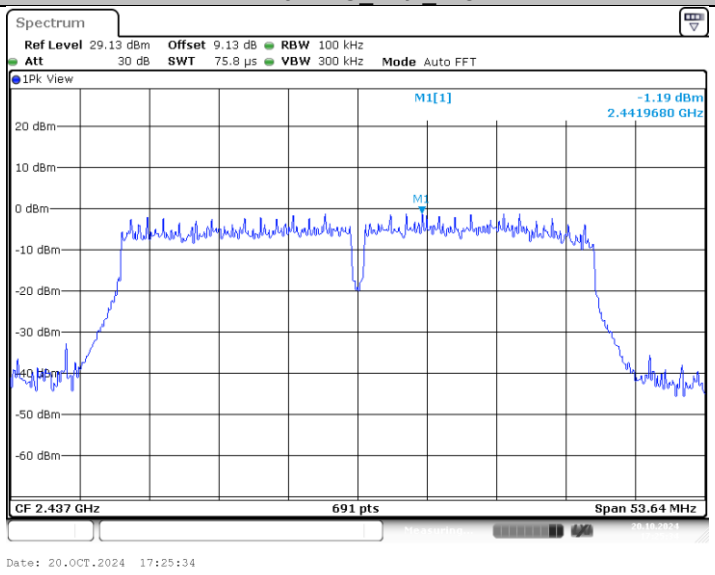

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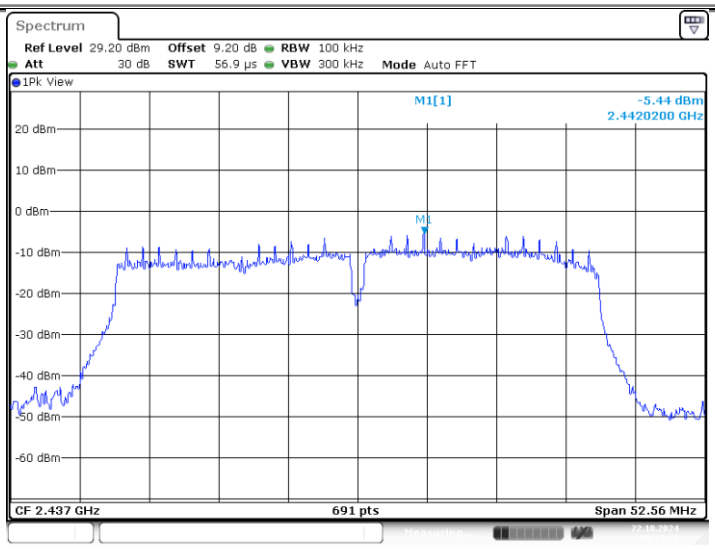

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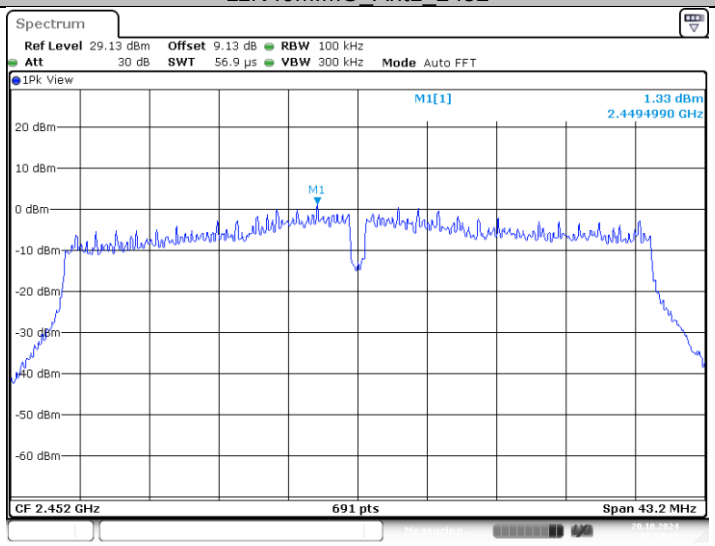

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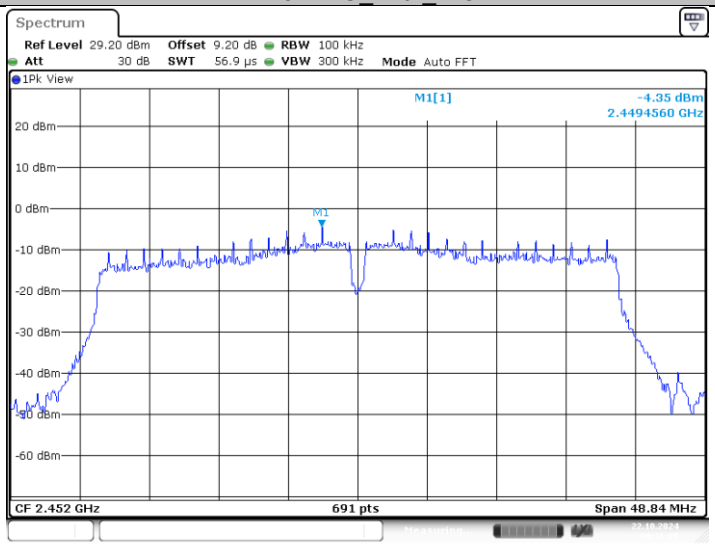
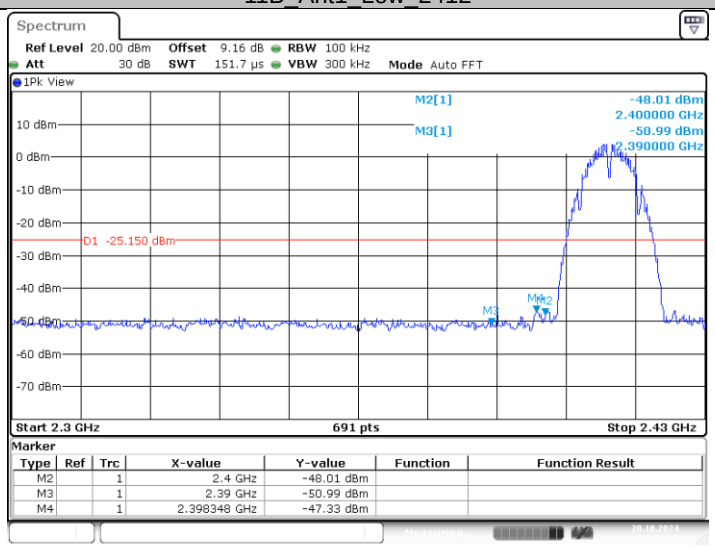


Date: 22.OCT.2024 09:16:09

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.85	-47.33	≤-25.15	PASS
	Ant2	Low	2412	1.36	-46.56	≤-28.64	PASS
	Ant1	High	2462	4.47	-47.78	≤-25.53	PASS
	Ant2	High	2462	-0.65	-47.8	≤-30.65	PASS
11G	Ant1	Low	2412	2.20	-36.88	≤-27.8	PASS
	Ant2	Low	2412	-4.53	-46.35	≤-34.53	PASS
	Ant1	High	2462	1.79	-47.8	≤-28.21	PASS
	Ant2	High	2462	-3.82	-47.44	≤-33.82	PASS
11N20MIMO	Ant1	Low	2412	2.23	-33.53	≤-27.77	PASS
	Ant2	Low	2412	-3.22	-47.94	≤-33.22	PASS
	Ant1	High	2462	3.67	-42.59	≤-26.33	PASS
	Ant2	High	2462	-3.74	-46.8	≤-33.74	PASS
11N40MIMO	Ant1	Low	2422	0.23	-36.94	≤-29.77	PASS
	Ant2	Low	2422	-4.27	-46.59	≤-34.27	PASS
	Ant1	High	2452	1.33	-38.92	≤-28.67	PASS
	Ant2	High	2452	-4.35	-47.02	≤-34.35	PASS

TEST GRAPHS

11B_Ant1_Low_2412



Date: 20.OCT.2024 17:01:09

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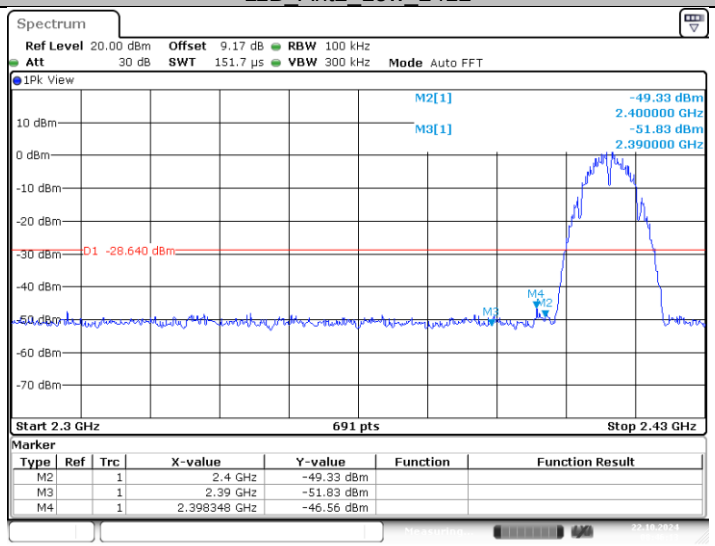
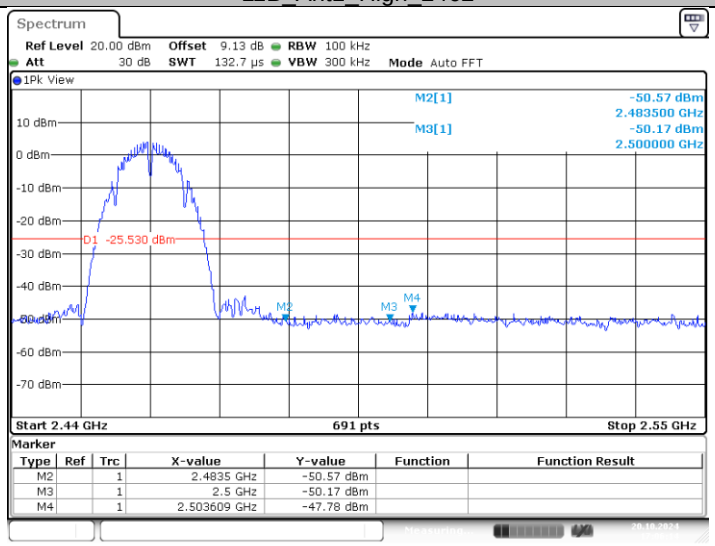


Date: 22.OCT.2024 08:46:13

11B_Ant1_High_2462



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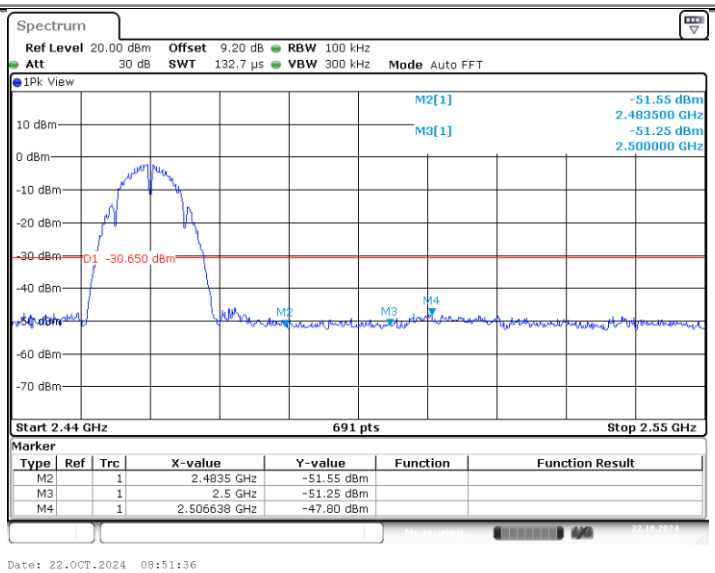

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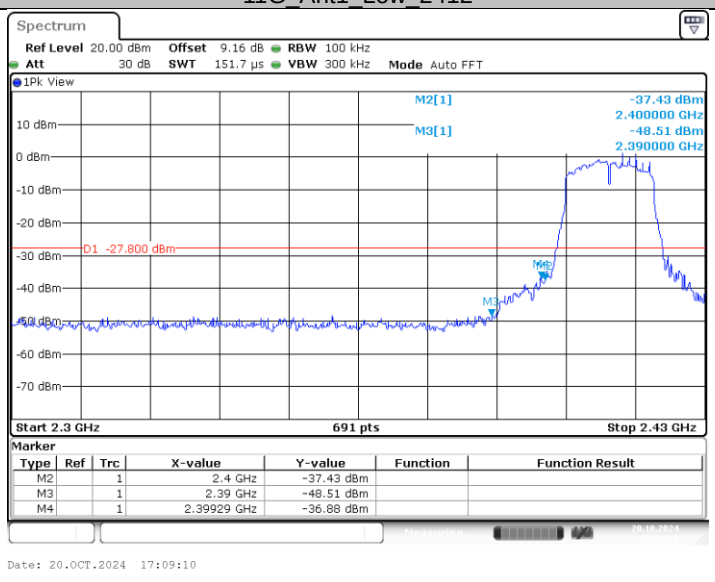

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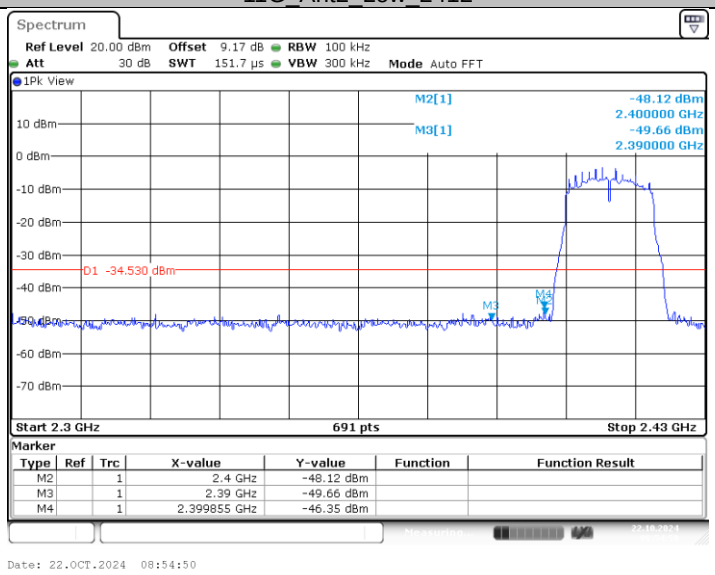

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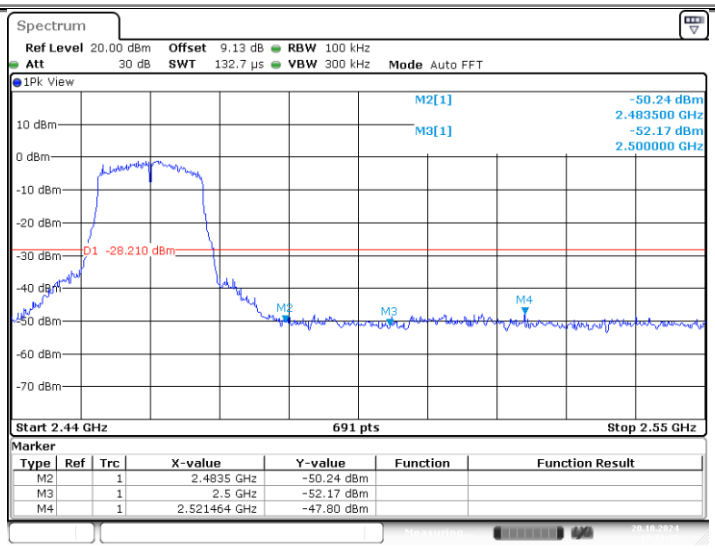

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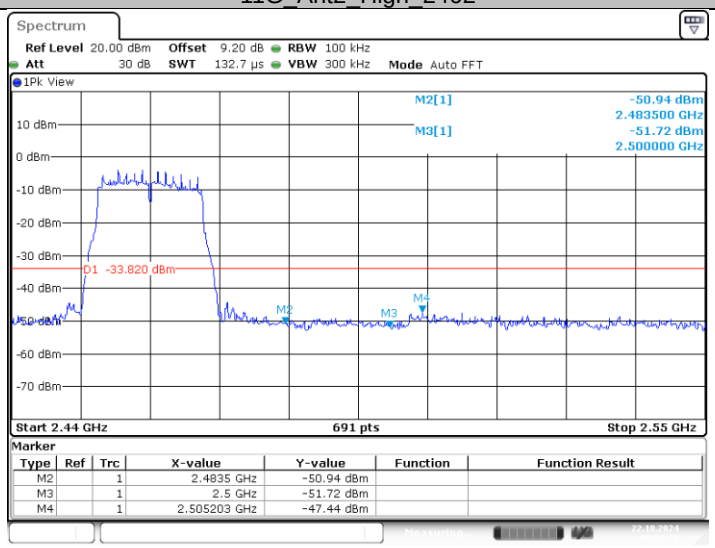

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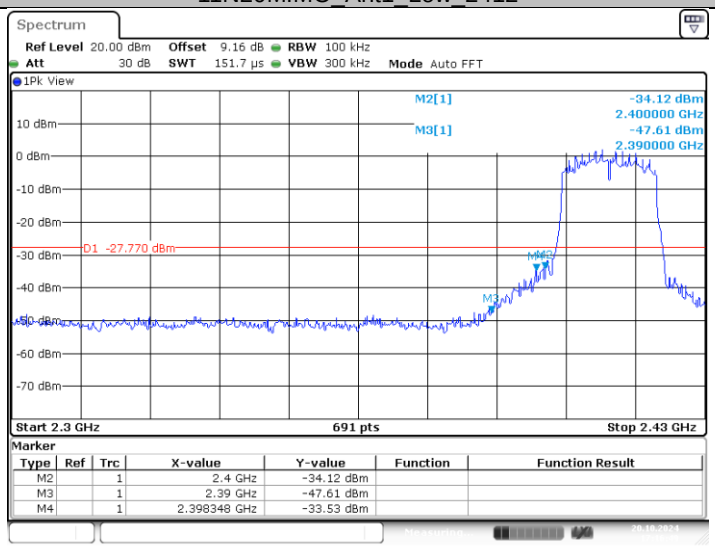

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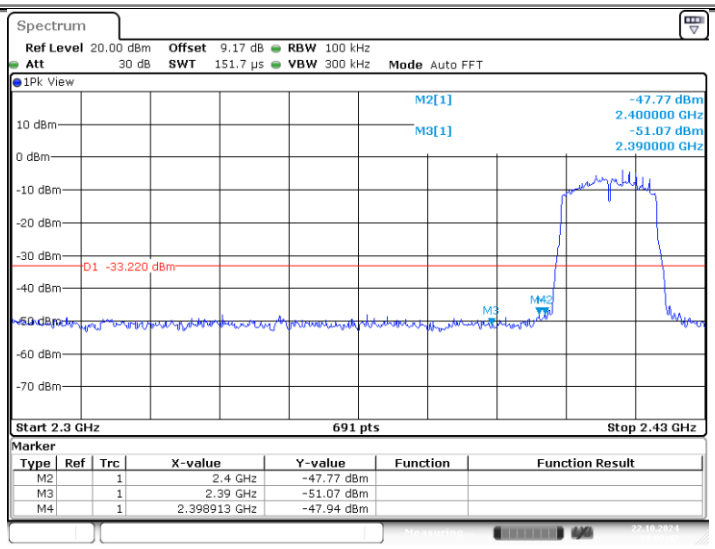

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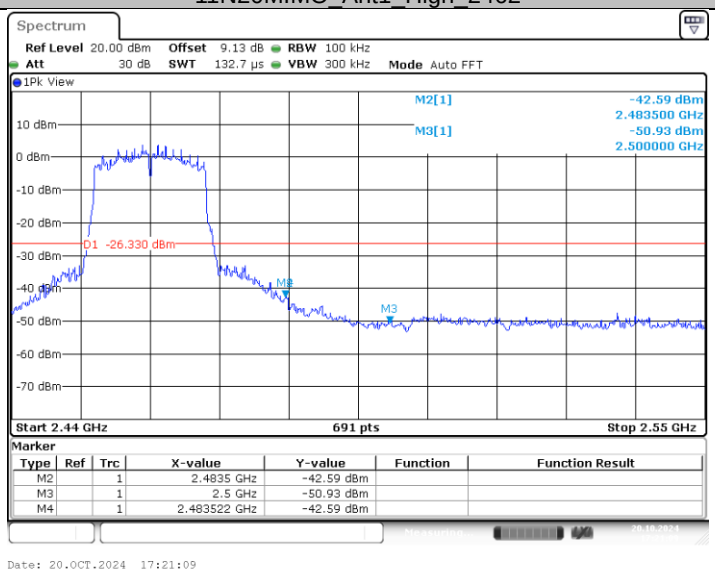

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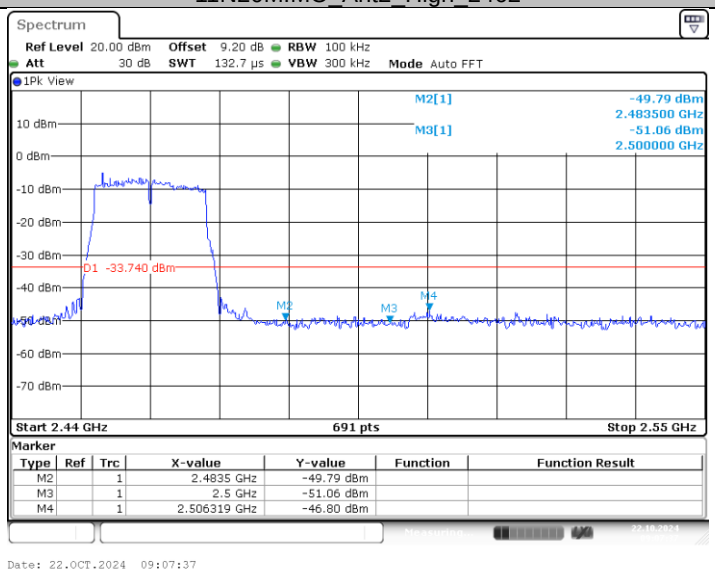
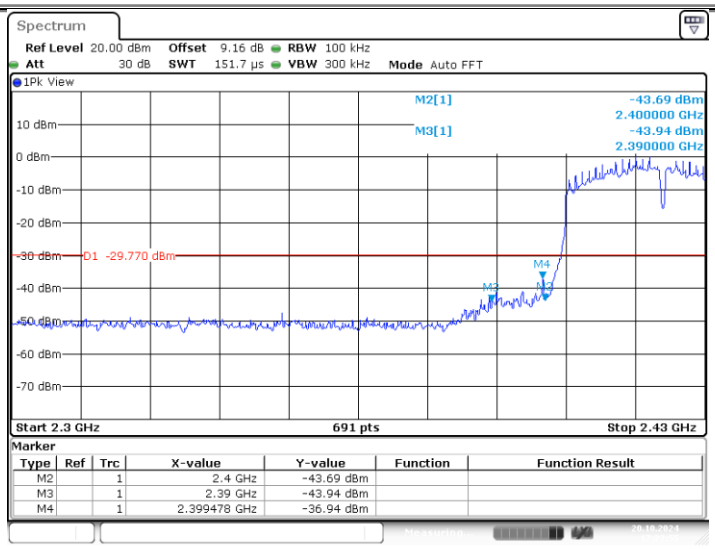
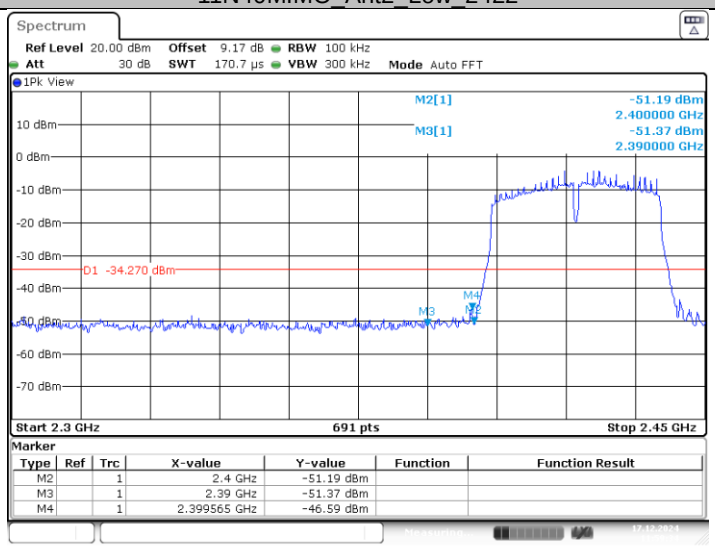


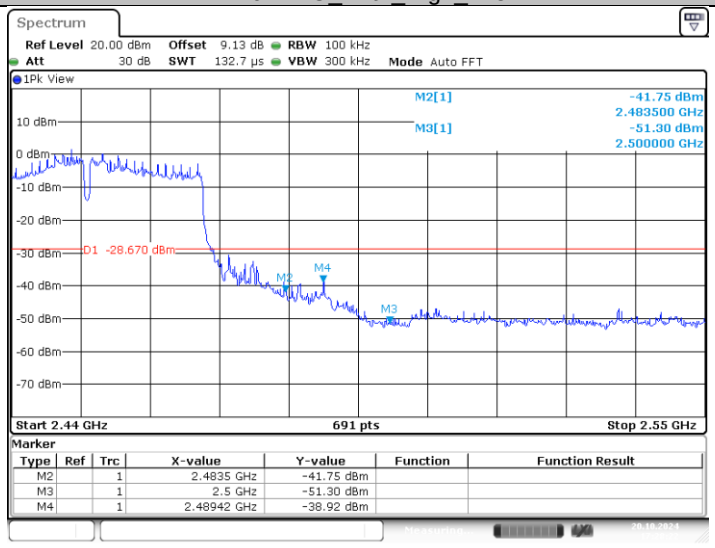
11N40MIMO_Ant1_Low_2422



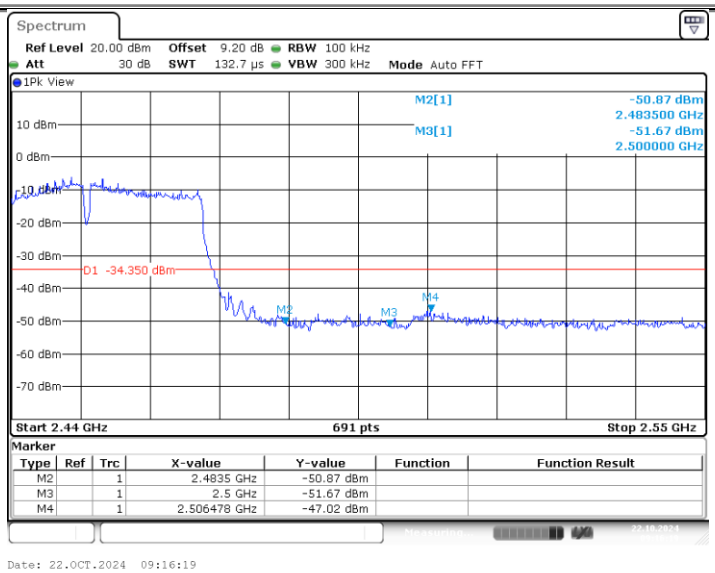
11N40MIMO_Ant2_Low_2422



11N40MIMO_Ant1_High_2452



11N40MIMO_Ant2_High_2452



Note：

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

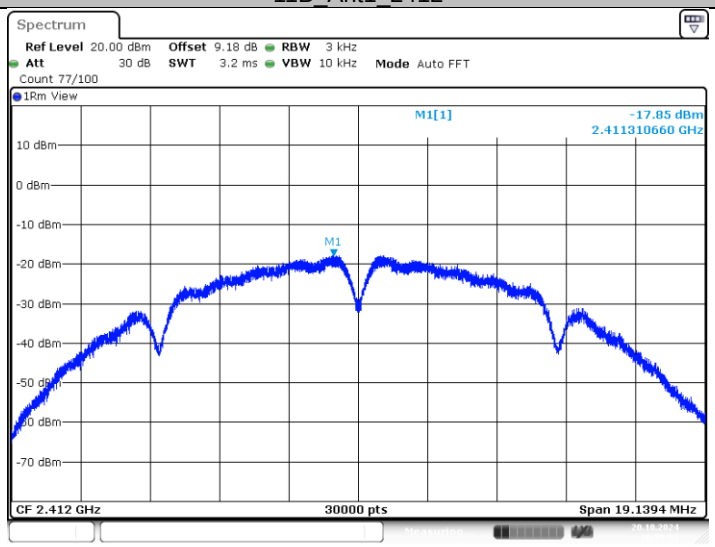
APPENDIXH - POWER SPECTRAL DENSITY

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-17.85	≤8.00	PASS
	Ant2	2412	-20.68	≤8.00	PASS
	Ant1	2437	-18.02	≤8.00	PASS
	Ant2	2437	-20.96	≤8.00	PASS
	Ant1	2462	-17.29	≤8.00	PASS
	Ant2	2462	-23.33	≤8.00	PASS
11G	Ant1	2412	-19.79	≤8.00	PASS
	Ant2	2412	-24.74	≤8.00	PASS
	Ant1	2437	-20.24	≤8.00	PASS
	Ant2	2437	-25.18	≤8.00	PASS
	Ant1	2462	-20.09	≤8.00	PASS
	Ant2	2462	-25.45	≤8.00	PASS
11N20MIMO	Ant1	2412	-14.74	≤8.00	PASS
	Ant2	2412	-25.42	≤8.00	PASS
	total	2412	-14.38	≤8.00	PASS
	Ant1	2437	-16.20	≤8.00	PASS
	Ant2	2437	-24.42	≤8.00	PASS
	total	2437	-15.59	≤8.00	PASS
	Ant1	2462	-13.62	≤8.00	PASS
	Ant2	2462	-25.51	≤8.00	PASS
	total	2462	-13.35	≤8.00	PASS
11N40MIMO	Ant1	2422	-15.43	≤8.00	PASS
	Ant2	2422	-23.97	≤8.00	PASS
	total	2422	-15.17	≤8.00	PASS
	Ant1	2437	-16.20	≤8.00	PASS
	Ant2	2437	-26.21	≤8.00	PASS
	total	2437	-15.79	≤8.00	PASS
	Ant1	2452	-14.83	≤8.00	PASS
	Ant2	2452	-25.89	≤8.00	PASS
	total	2452	-14.50	≤8.00	PASS

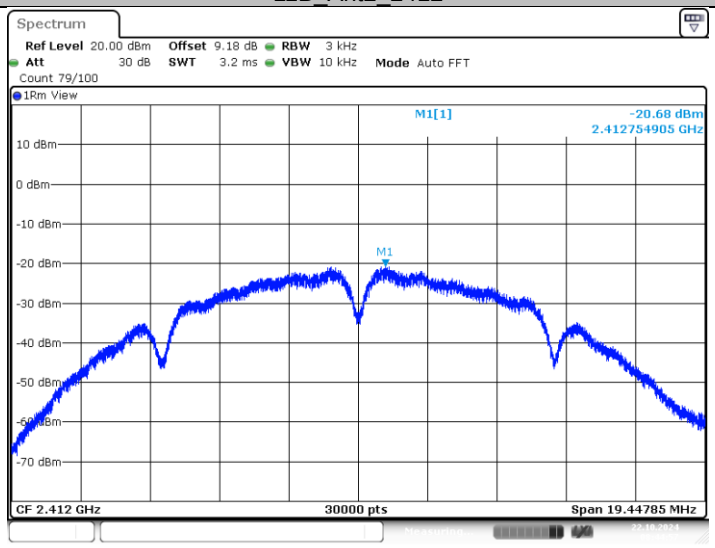
DC Factor＝10*log(1/ Duty Cycle)
The measure-and-sum technique shall be used for measuring in-band transmit power of a device. Total power is the sum of the conducted power levels measured at the various output ports.
(First measure the power (mW) of each antenna separately, and the total power is equal to Ant1mW + Ant2mW+….)

Test Graphs

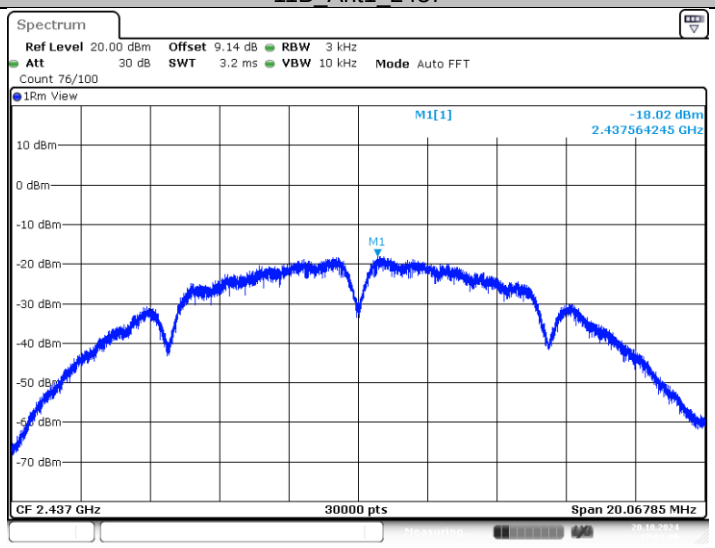
11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437



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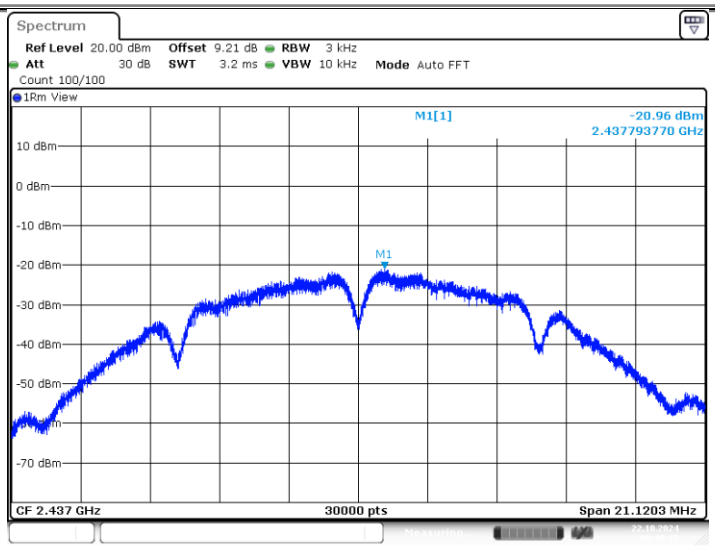

Date: 22.OCT.2024 08:48:15

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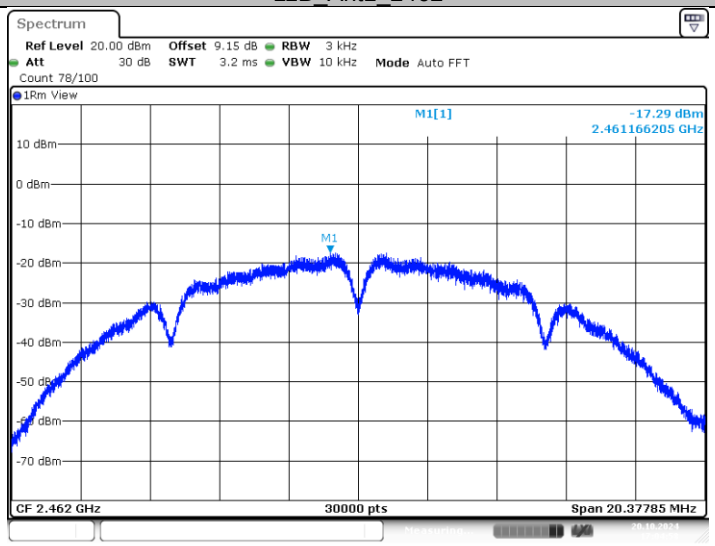

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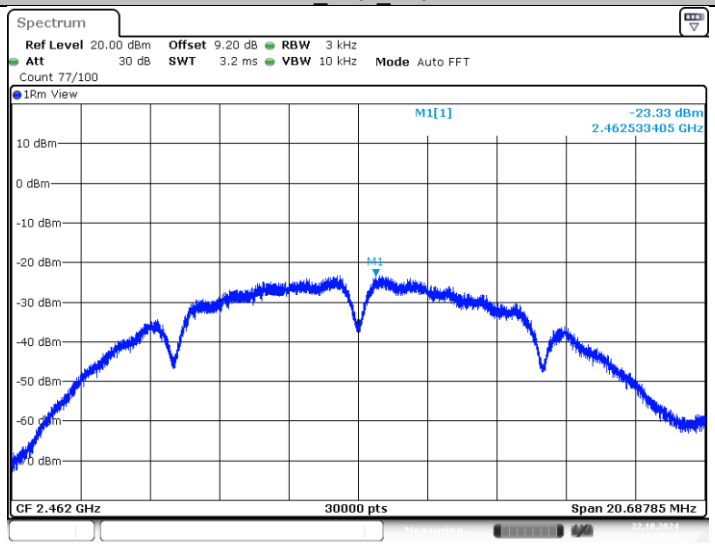

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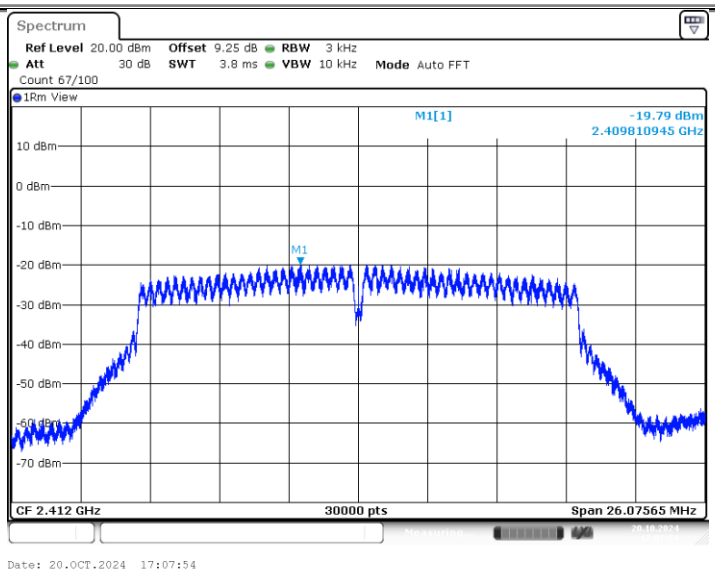

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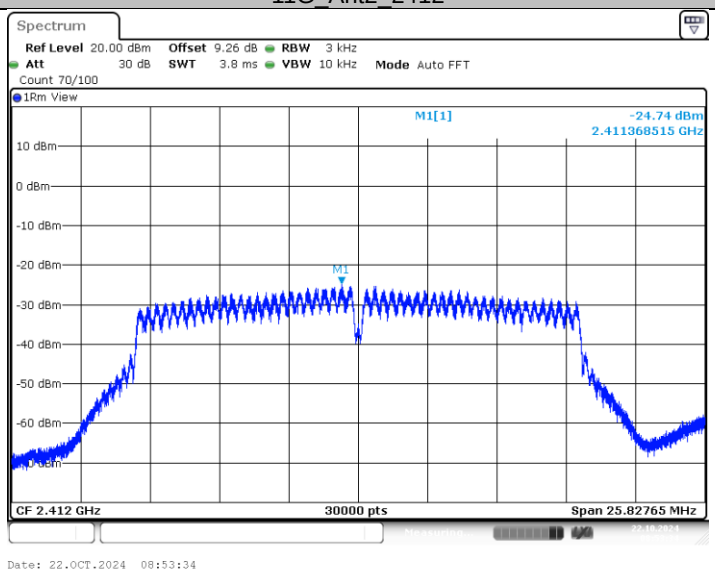

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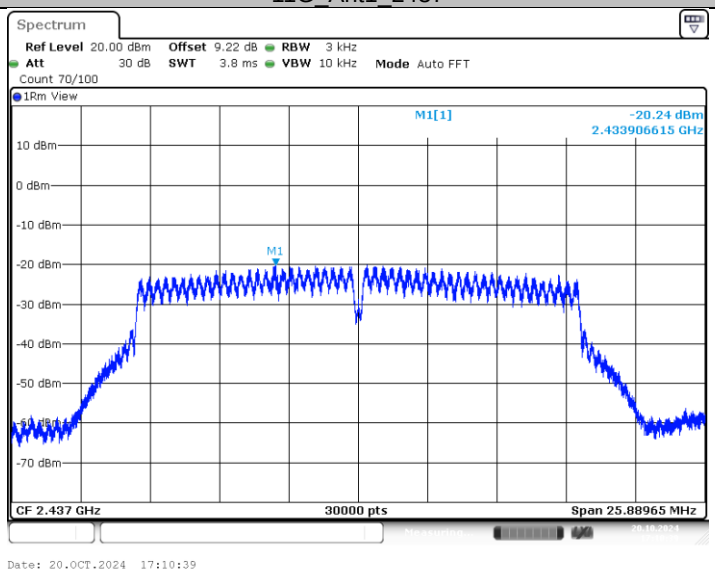

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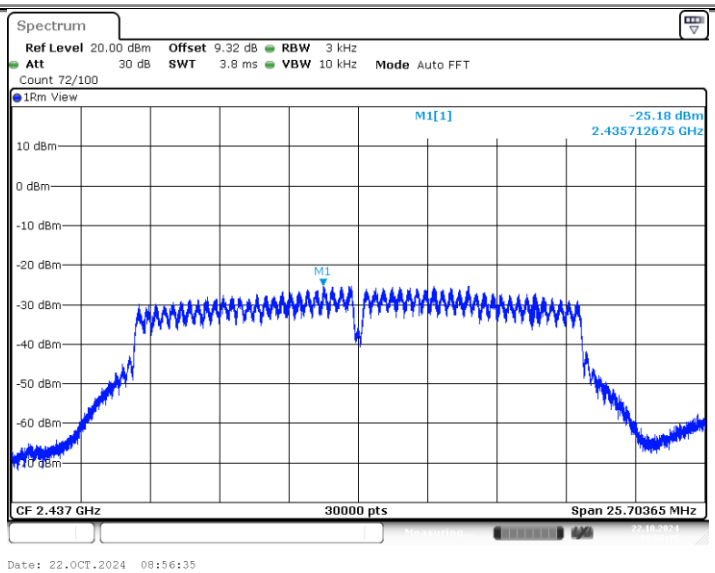

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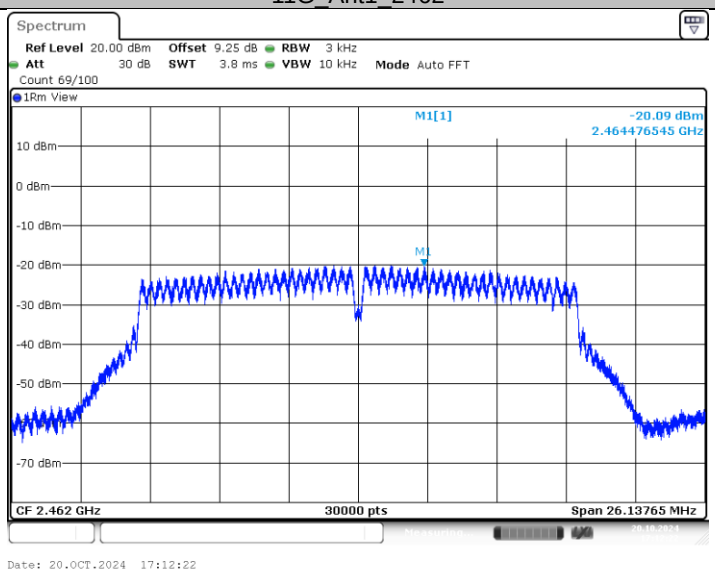

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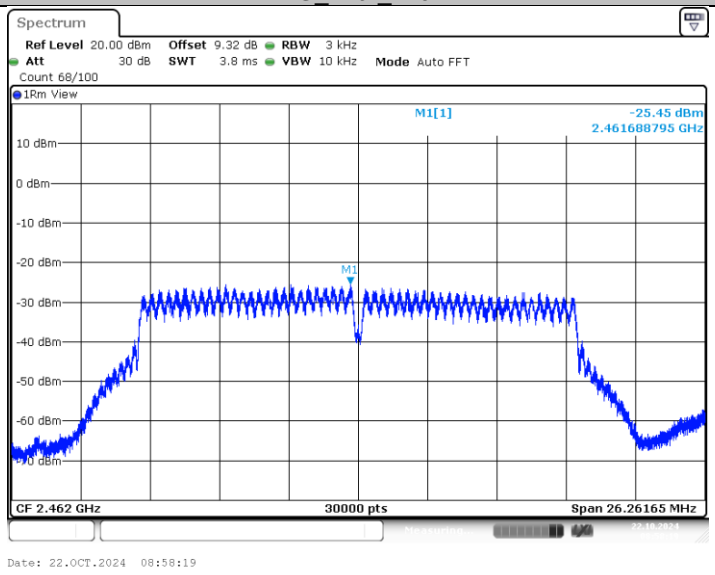

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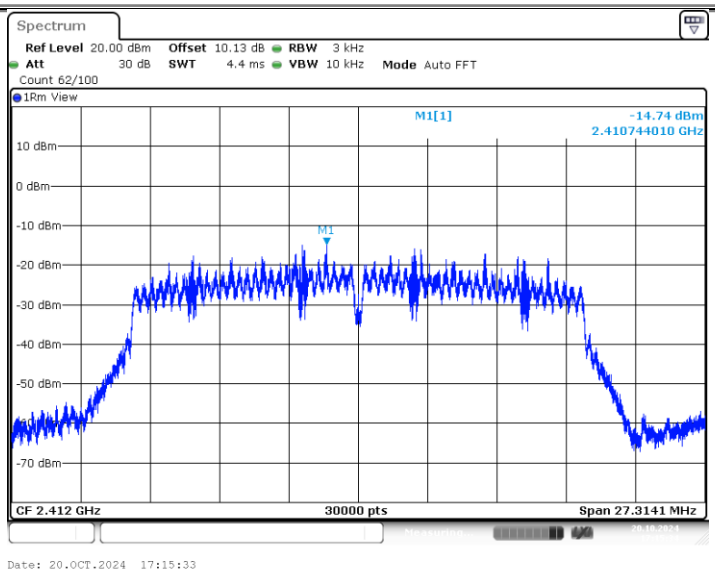

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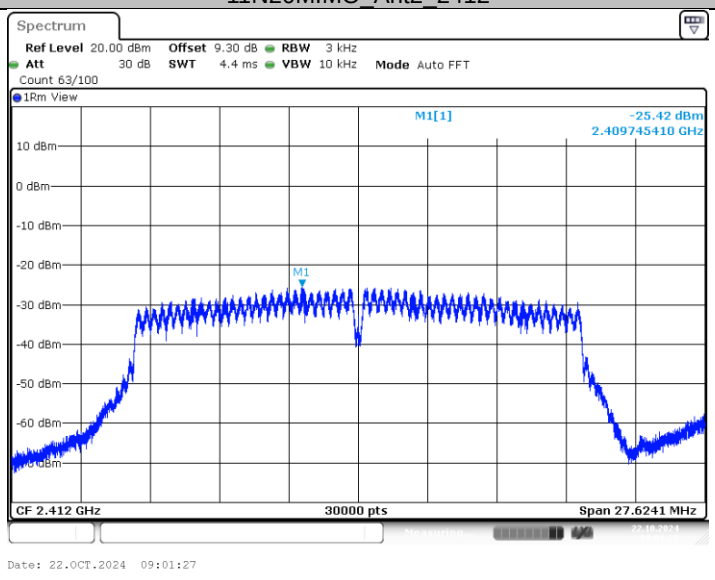

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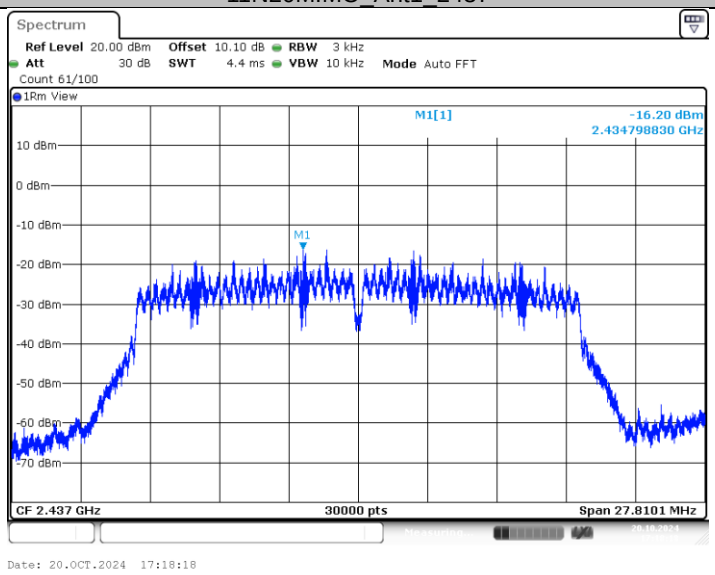

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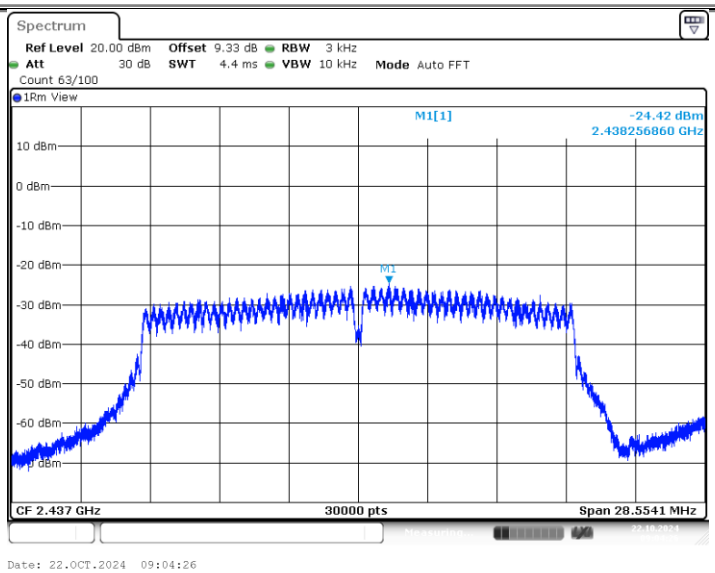

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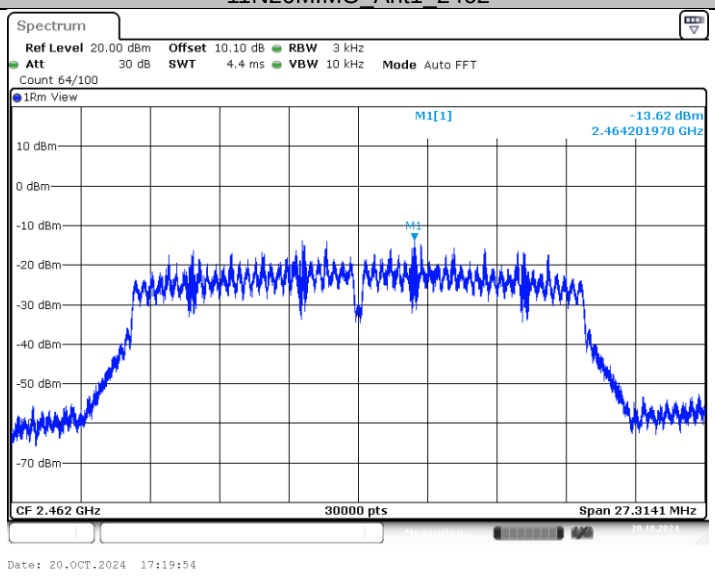

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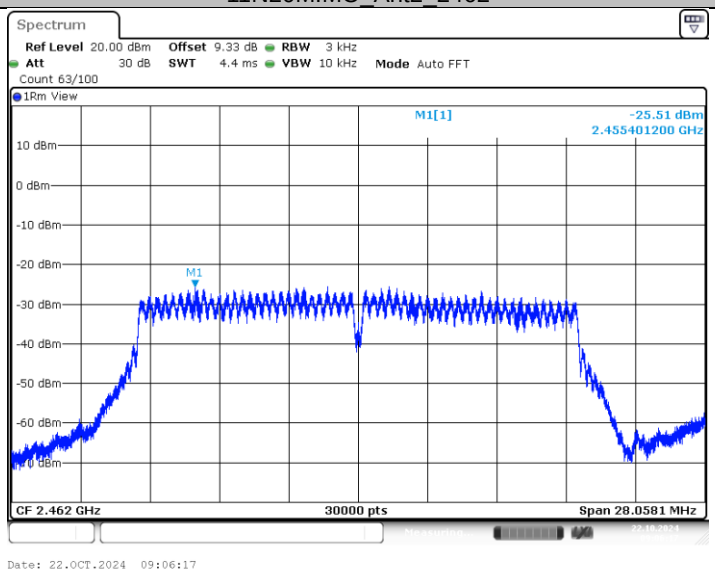

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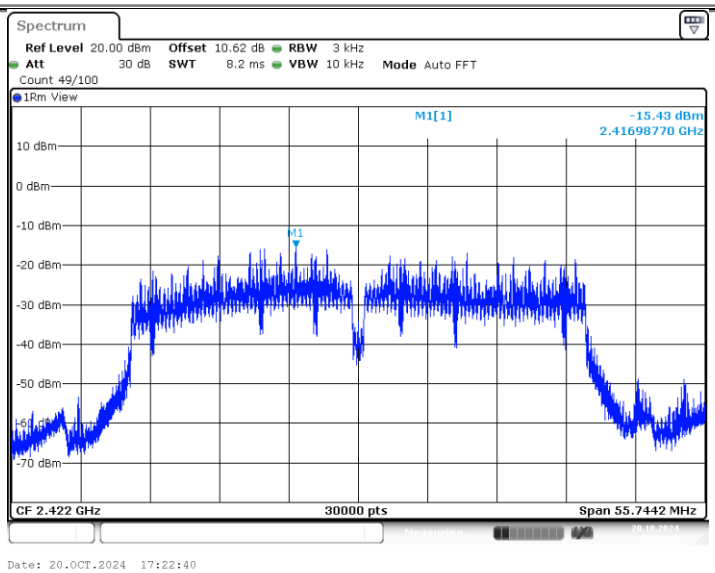

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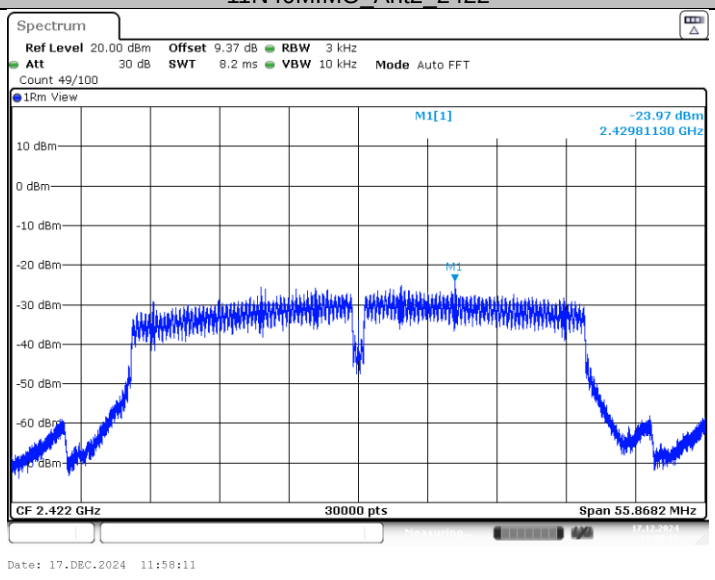

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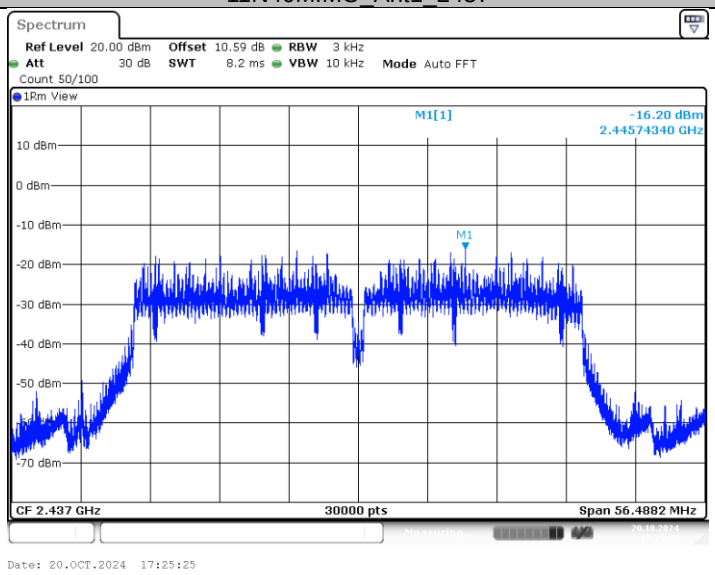

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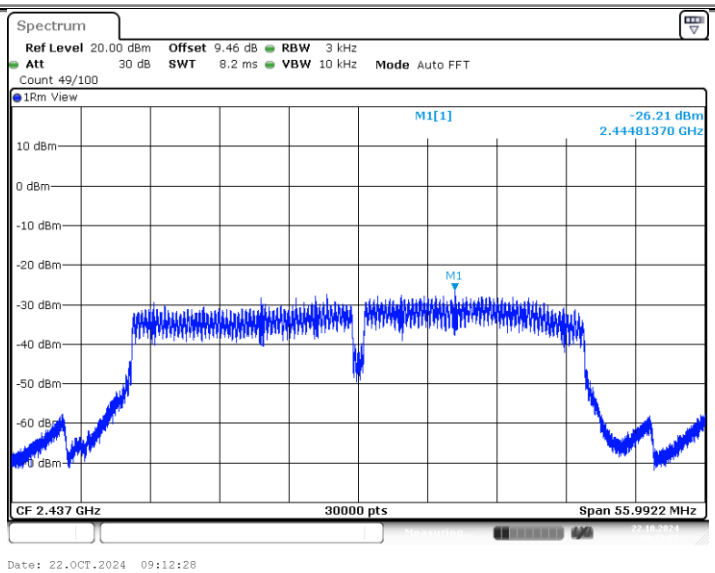

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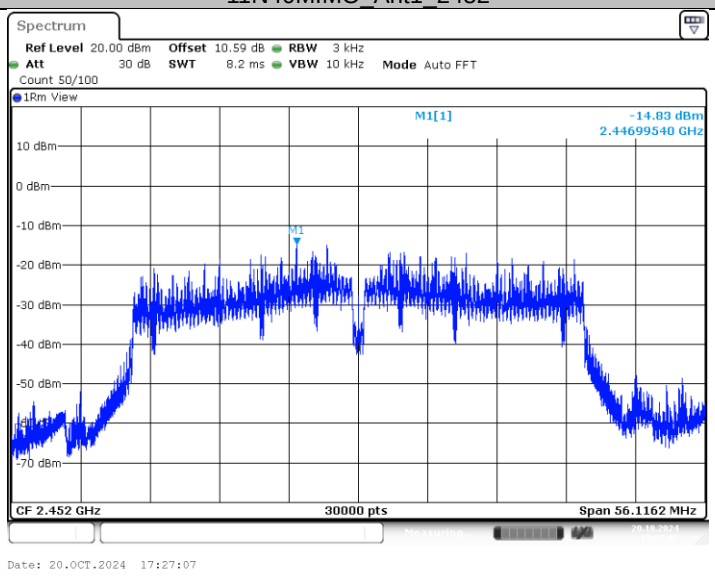

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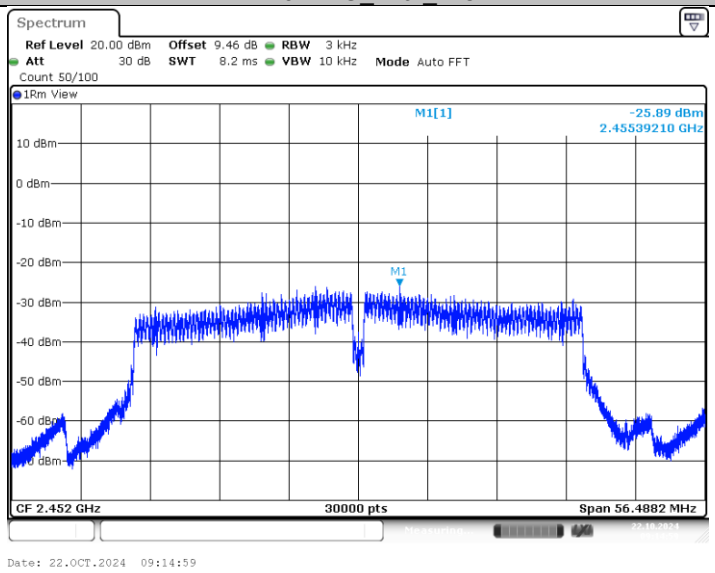

End of Test Report