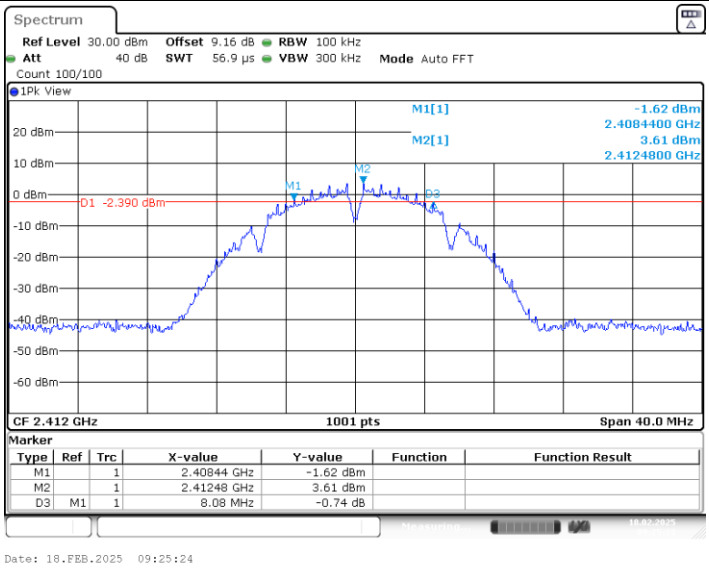
Appendix A: DTS Bandwidth

Test Result

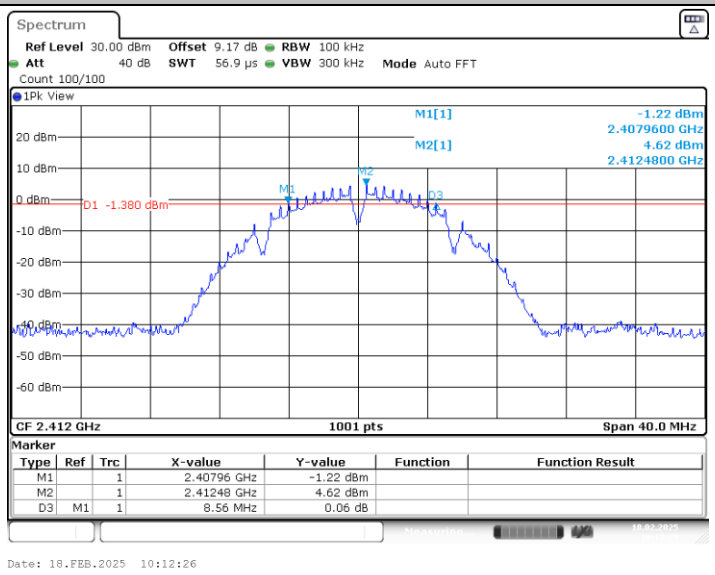
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.08	2408.44	2416.52	0.5	PASS
	Ant2	2412	8.56	2407.96	2416.52	0.5	PASS
	Ant1	2437	8.08	2432.96	2441.04	0.5	PASS
	Ant2	2437	8.56	2432.48	2441.04	0.5	PASS
	Ant1	2462	7.08	2458.44	2465.52	0.5	PASS
	Ant2	2462	8.04	2457.96	2466.00	0.5	PASS
11G	Ant1	2412	16.32	2403.84	2420.16	0.5	PASS
	Ant2	2412	15.08	2404.48	2419.56	0.5	PASS
	Ant1	2437	16.32	2428.84	2445.16	0.5	PASS
	Ant2	2437	15.68	2429.08	2444.76	0.5	PASS
	Ant1	2462	15.04	2454.48	2469.52	0.5	PASS
	Ant2	2462	15.28	2454.24	2469.52	0.5	PASS
11N20MIMO	Ant1	2412	14.72	2404.84	2419.56	0.5	PASS
	Ant2	2412	16.64	2404.12	2420.76	0.5	PASS
	Ant1	2437	17.56	2428.20	2445.76	0.5	PASS
	Ant2	2437	17.60	2428.20	2445.80	0.5	PASS
	Ant1	2462	13.88	2454.44	2468.32	0.5	PASS
	Ant2	2462	15.16	2454.40	2469.56	0.5	PASS
11N40MIMO	Ant1	2422	35.44	2404.48	2439.92	0.5	PASS
	Ant2	2422	35.12	2404.40	2439.52	0.5	PASS
	Ant1	2437	32.56	2421.96	2454.52	0.5	PASS
	Ant2	2437	33.84	2420.68	2454.52	0.5	PASS
	Ant1	2452	35.04	2434.48	2469.52	0.5	PASS
	Ant2	2452	35.52	2434.08	2469.60	0.5	PASS

Test Graphs

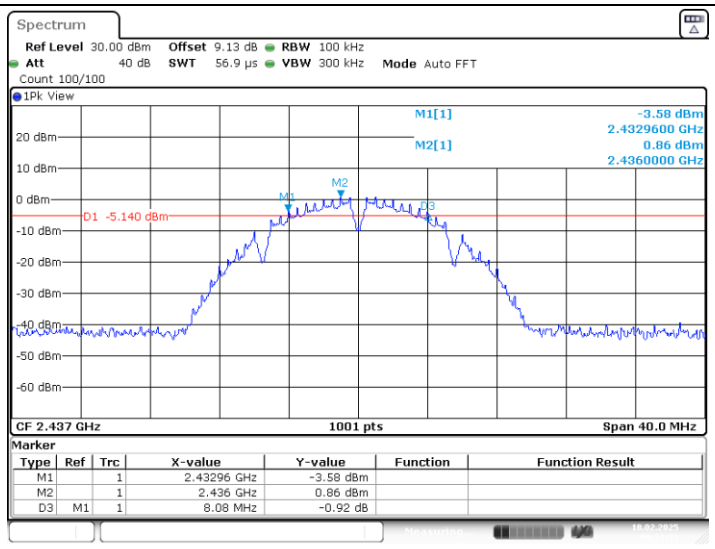
11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437



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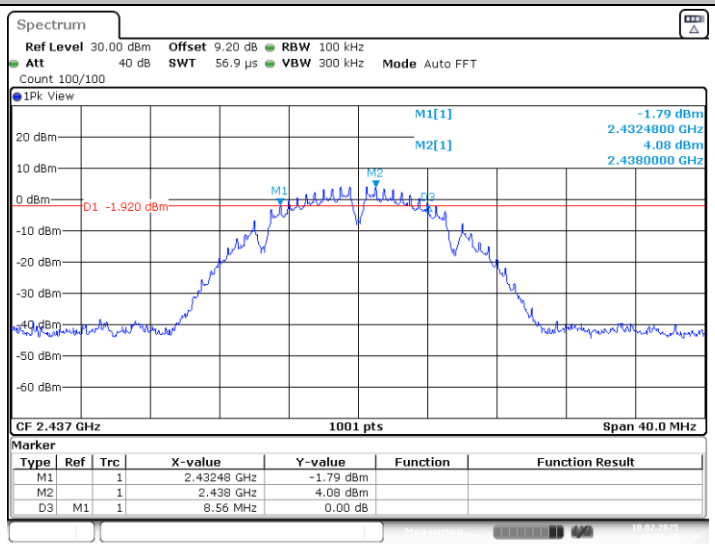

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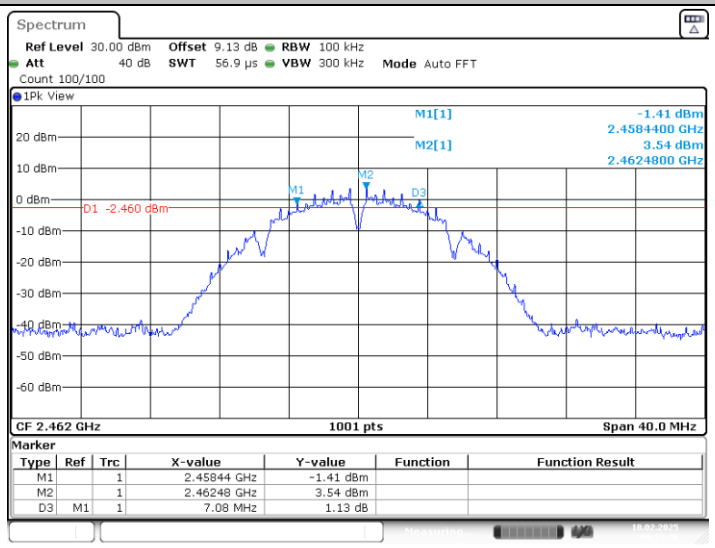

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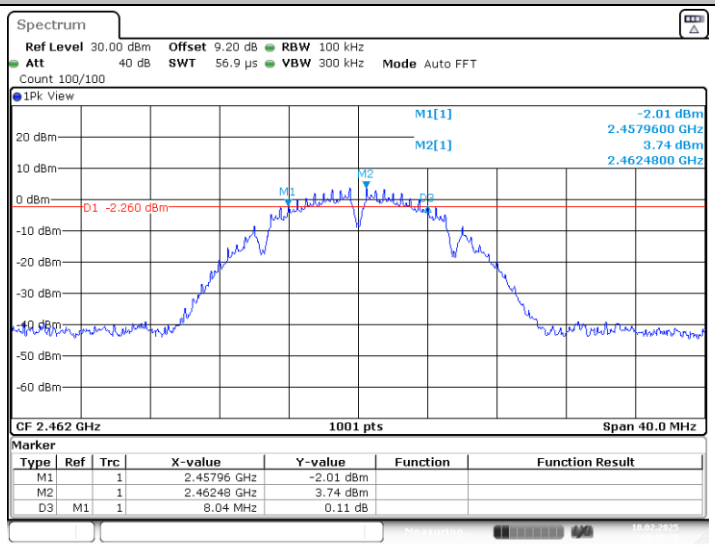

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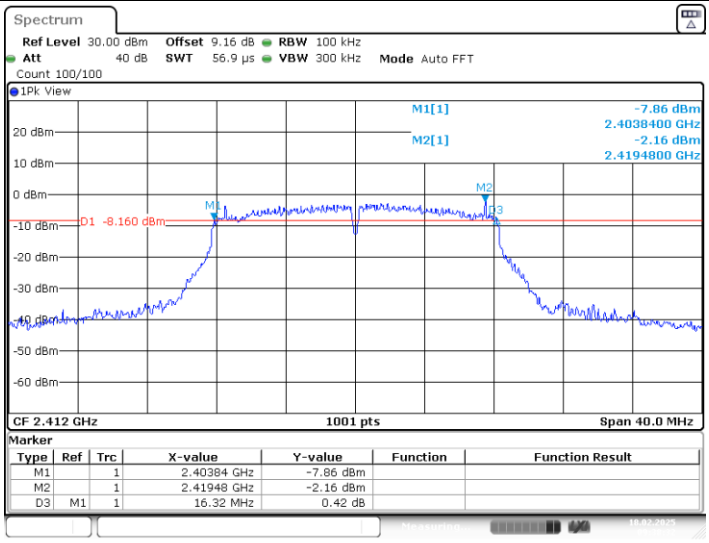

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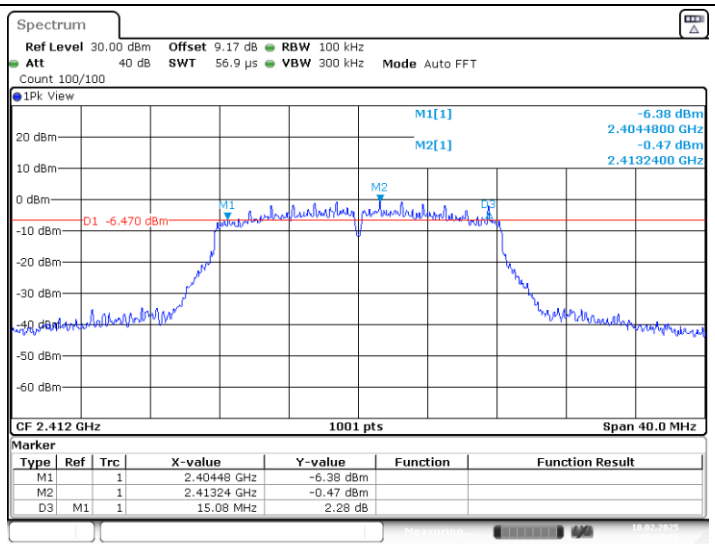

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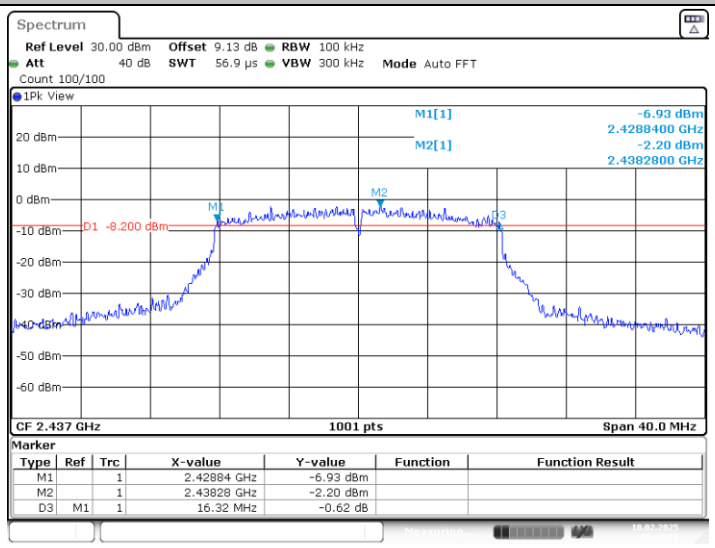

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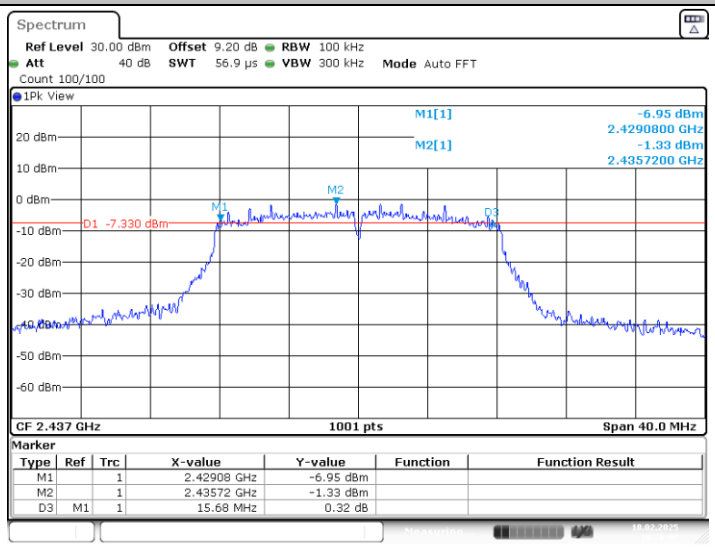

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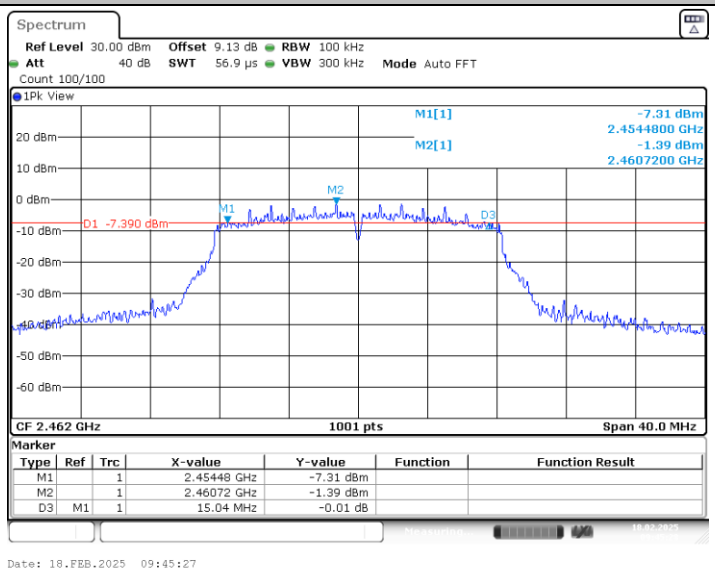
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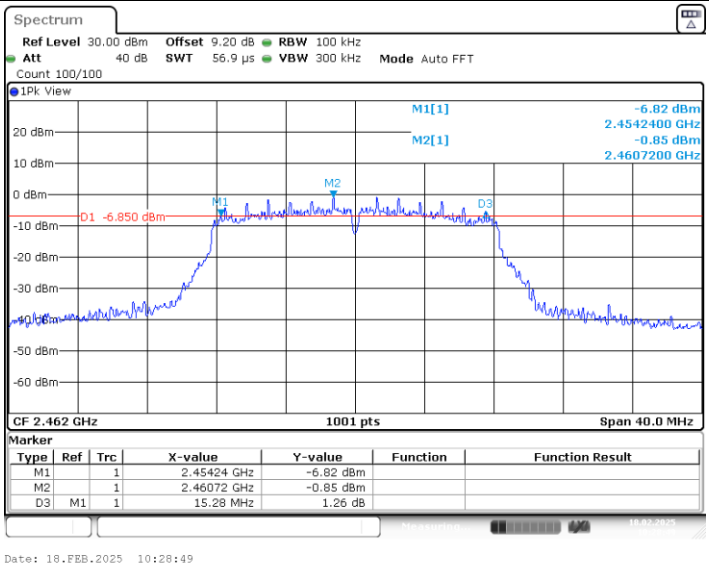
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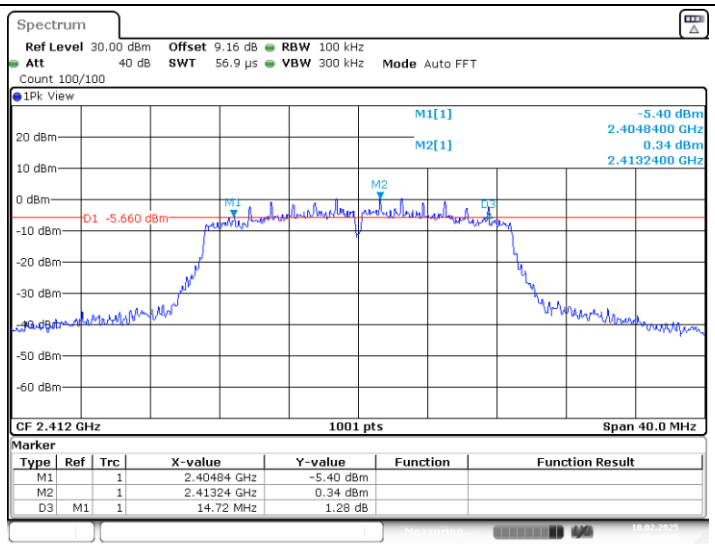

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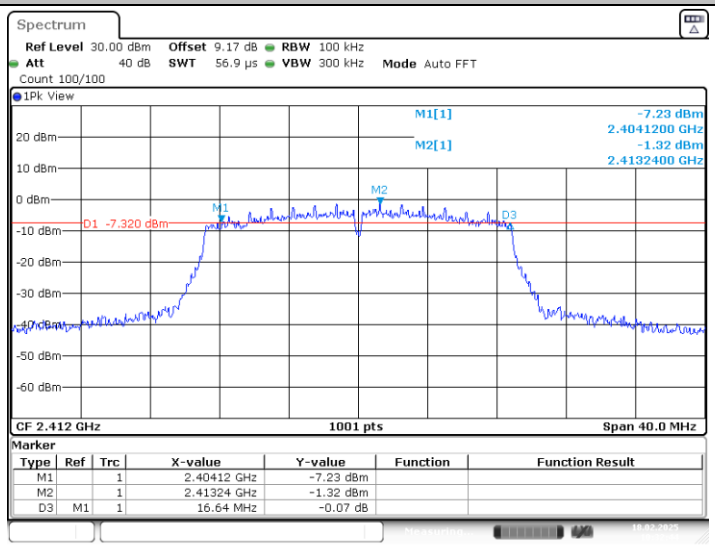

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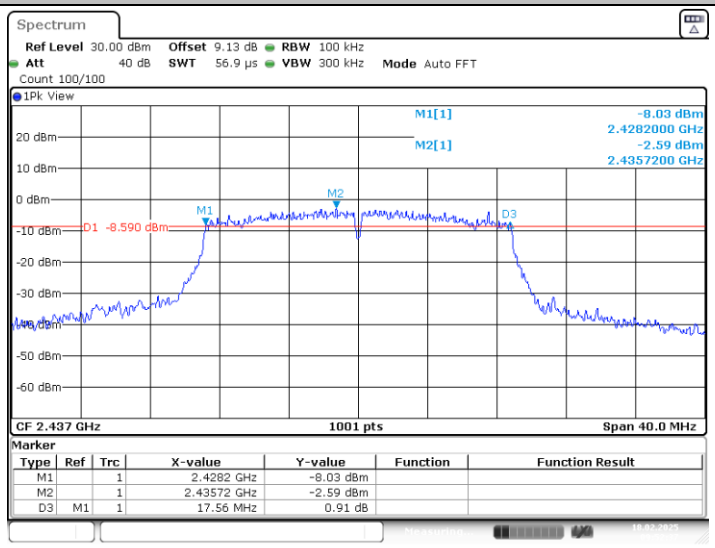

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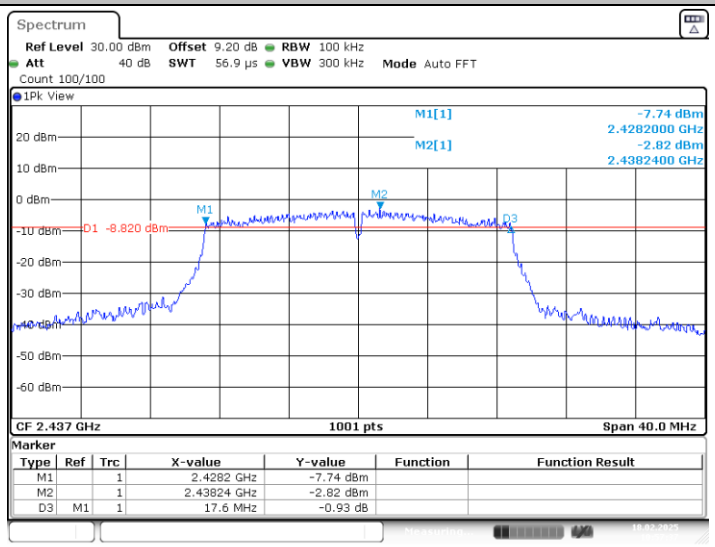 Date: 18.FEB.2025 10:57:37
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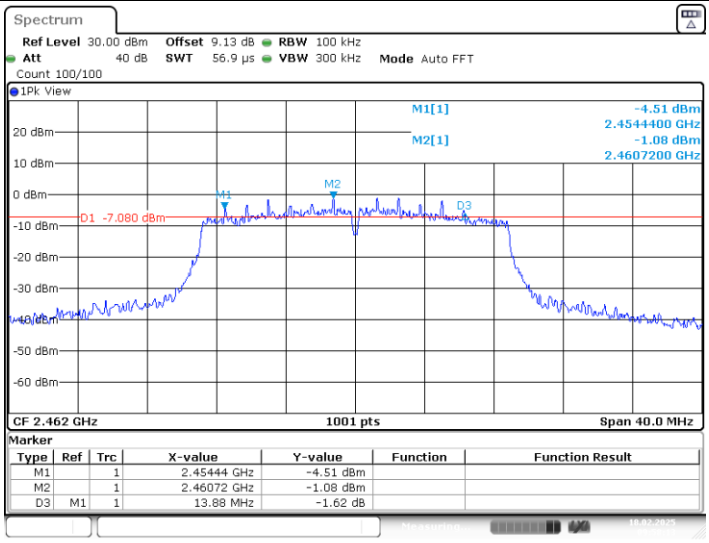 Date: 18.FEB.2025 09:58:12
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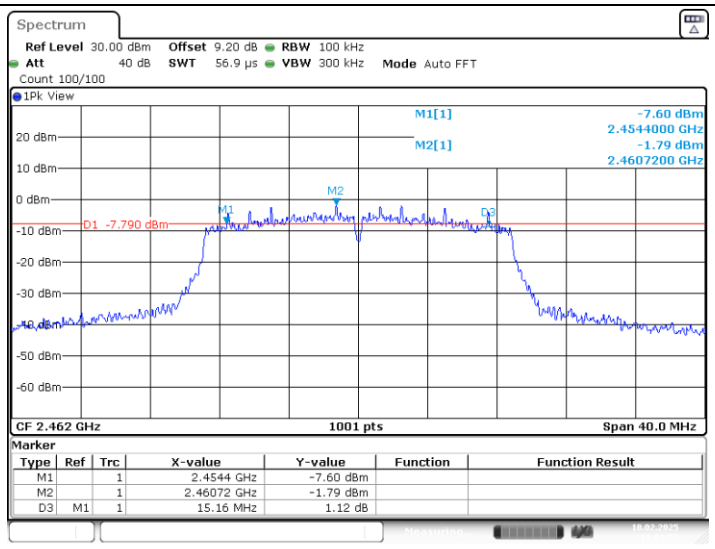

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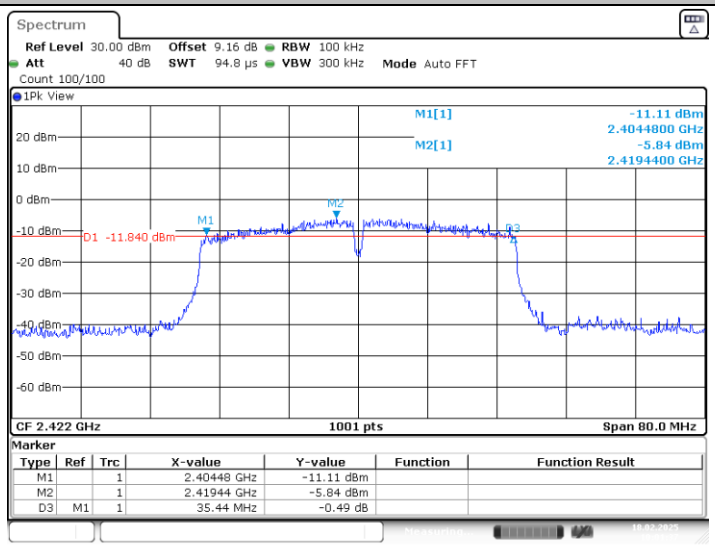

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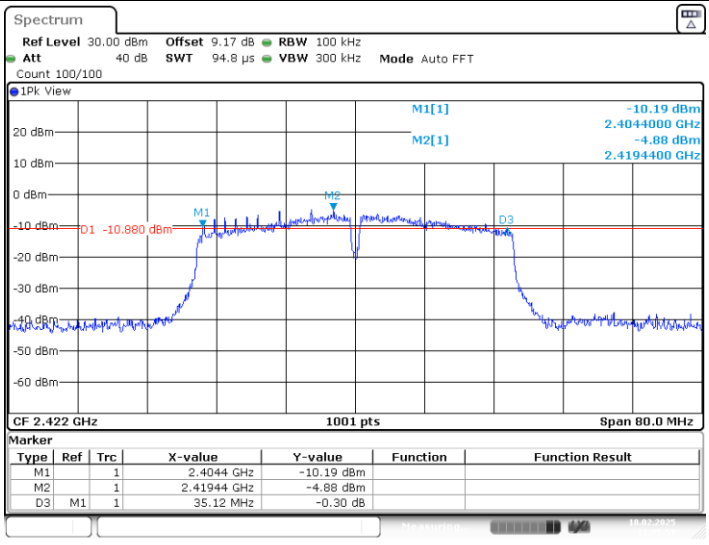

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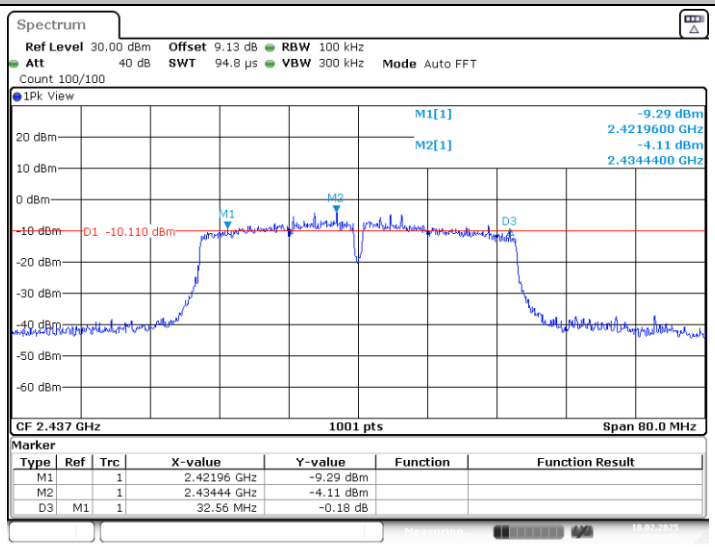

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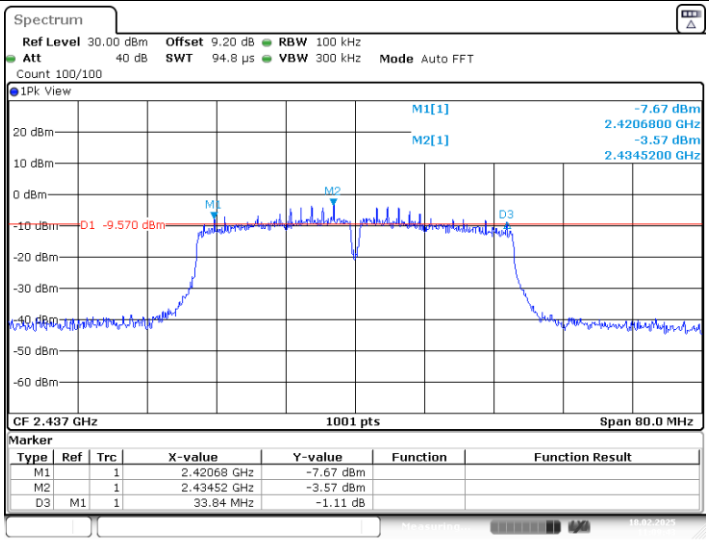

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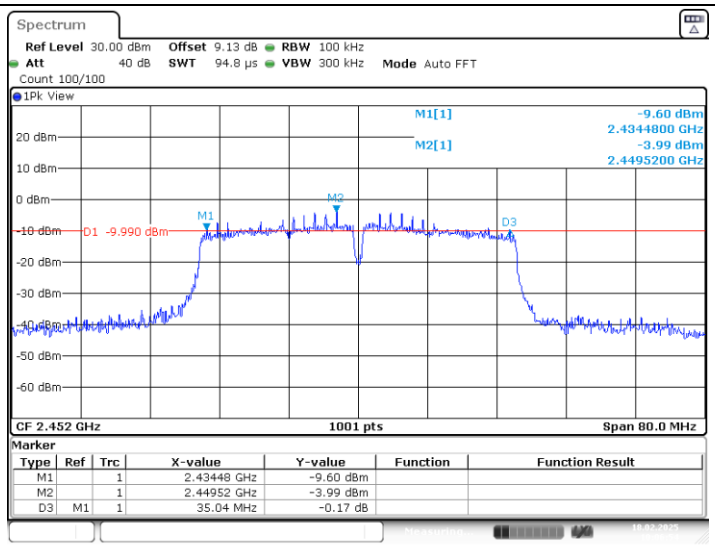

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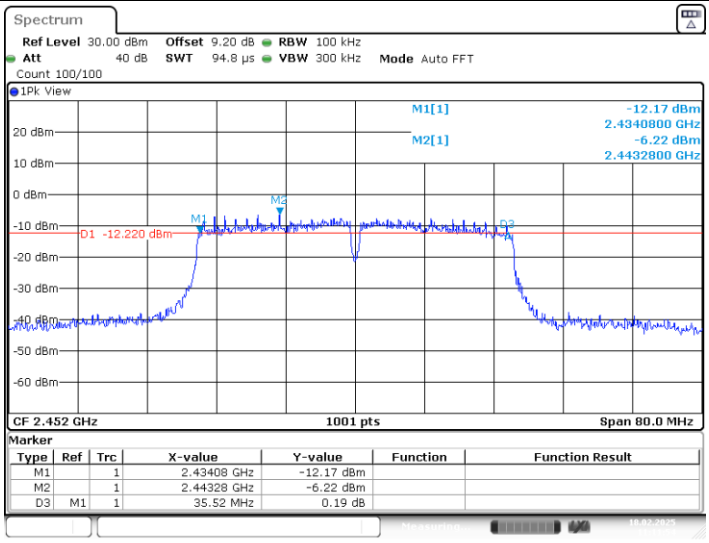

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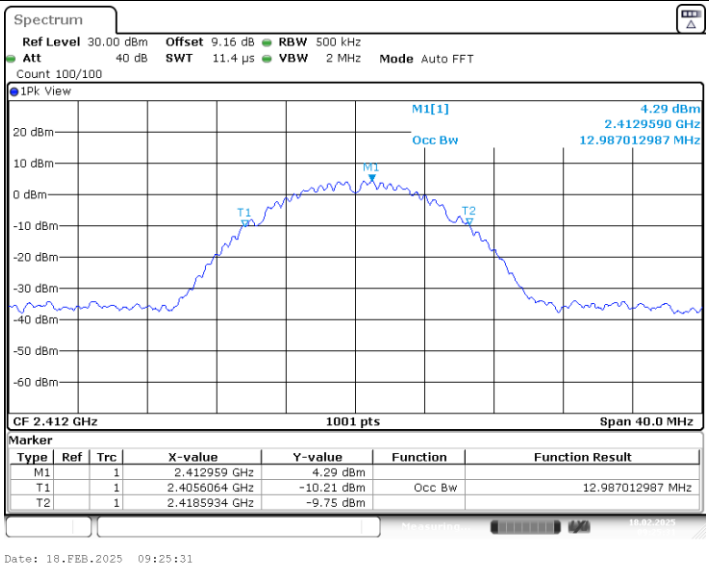
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.987	2405.6064	2418.5934	---	---
	Ant2	2412	13.027	2405.6064	2418.6334	---	---
	Ant1	2437	12.947	2430.4865	2443.4336	---	---
	Ant2	2437	13.147	2430.3666	2443.5135	---	---
	Ant1	2462	13.107	2455.4466	2468.5534	---	---
	Ant2	2462	13.107	2455.4466	2468.5534	---	---
11G	Ant1	2412	16.623	2403.7283	2420.3516	---	---
	Ant2	2412	17.063	2403.4486	2420.5115	---	---
	Ant1	2437	16.943	2428.5285	2445.4715	---	---
	Ant2	2437	16.823	2428.5285	2445.3516	---	---
	Ant1	2462	17.343	2453.3287	2470.6713	---	---
	Ant2	2462	17.103	2453.2887	2470.3916	---	---
11N20MIMO	Ant1	2412	17.782	2403.0889	2420.8711	---	---
	Ant2	2412	17.862	2403.1289	2420.9910	---	---
	Ant1	2437	17.862	2428.0490	2445.9111	---	---
	Ant2	2437	18.102	2428.0490	2446.1508	---	---
	Ant1	2462	17.942	2452.9291	2470.8711	---	---
	Ant2	2462	18.142	2452.8891	2471.0310	---	---
11N40MIMO	Ant1	2422	36.044	2404.0180	2440.0619	---	---
	Ant2	2422	36.044	2404.0180	2440.0619	---	---
	Ant1	2437	36.204	2419.0180	2455.2218	---	---
	Ant2	2437	36.204	2418.7782	2454.9820	---	---
	Ant1	2452	36.444	2433.6184	2470.0619	---	---
	Ant2	2452	36.044	2433.7782	2469.8222	---	---

Test Graphs

11B_Ant1_2412



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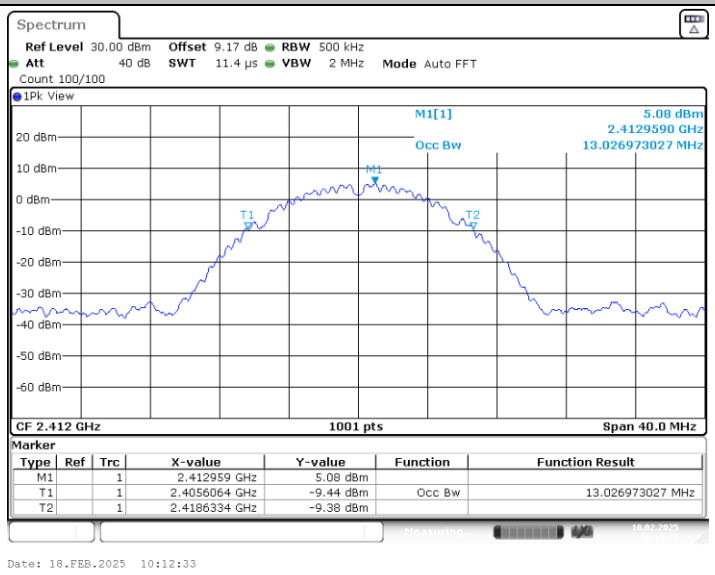

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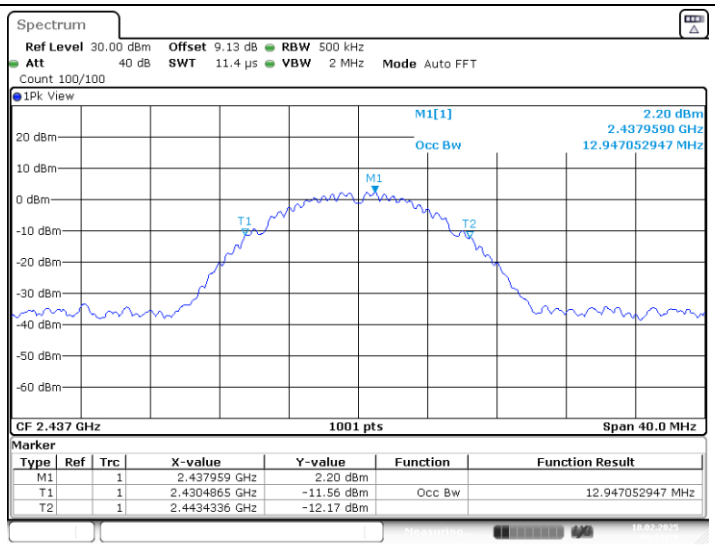

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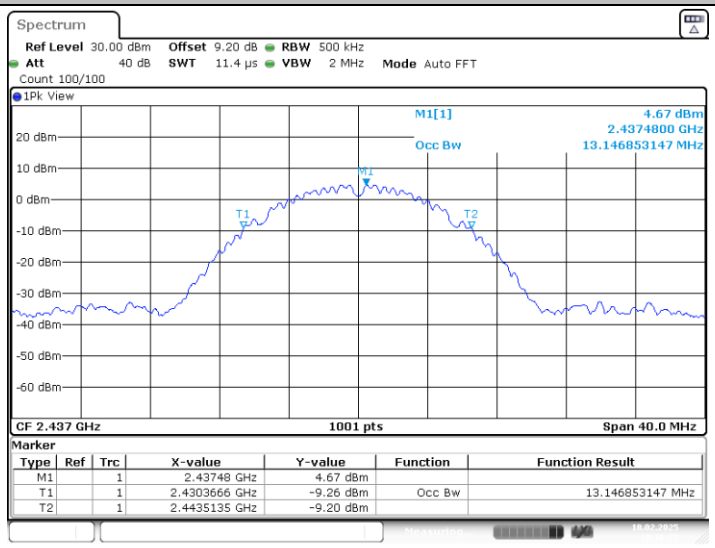

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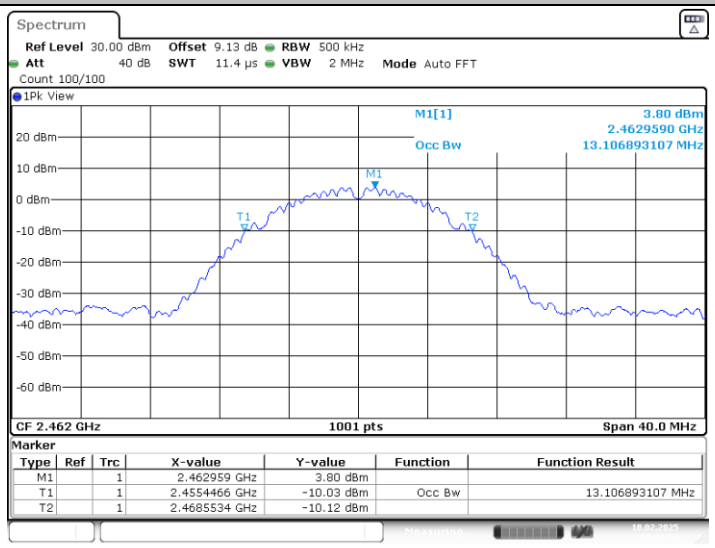
11B_Ant1_2462



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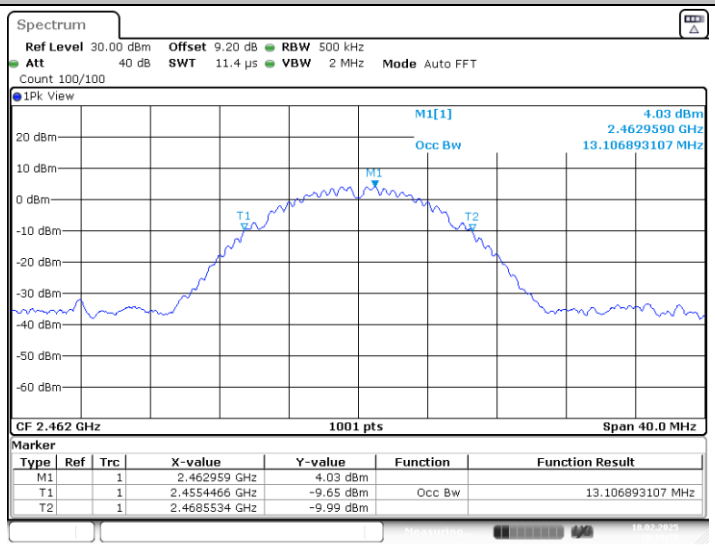

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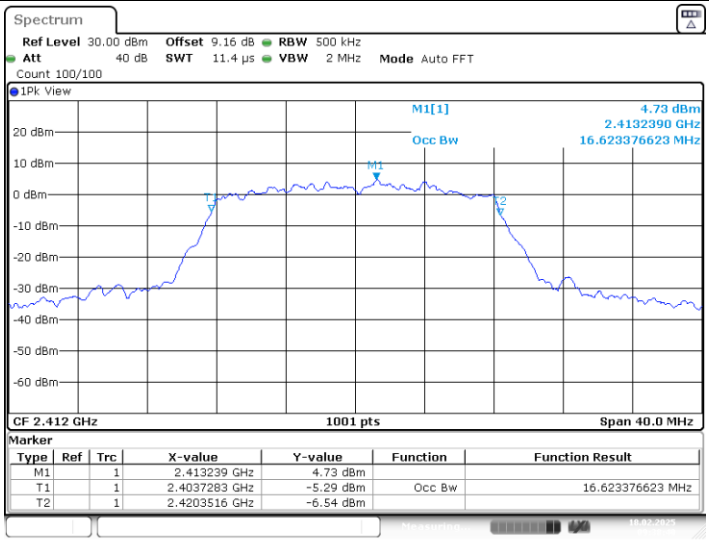

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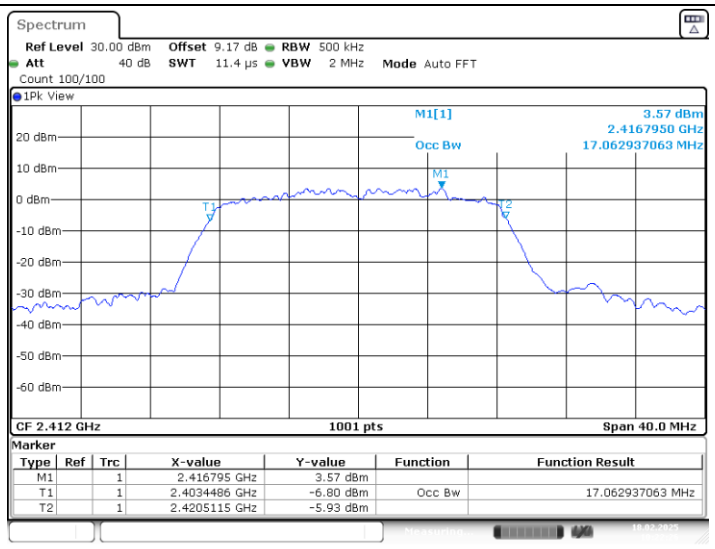

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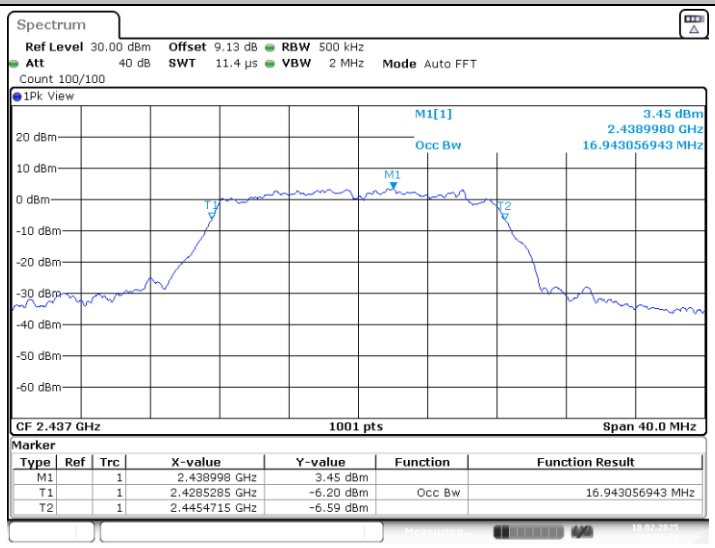

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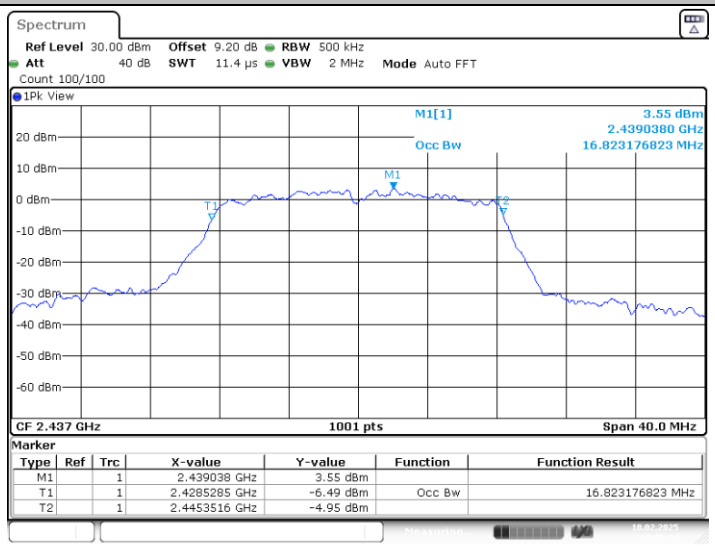

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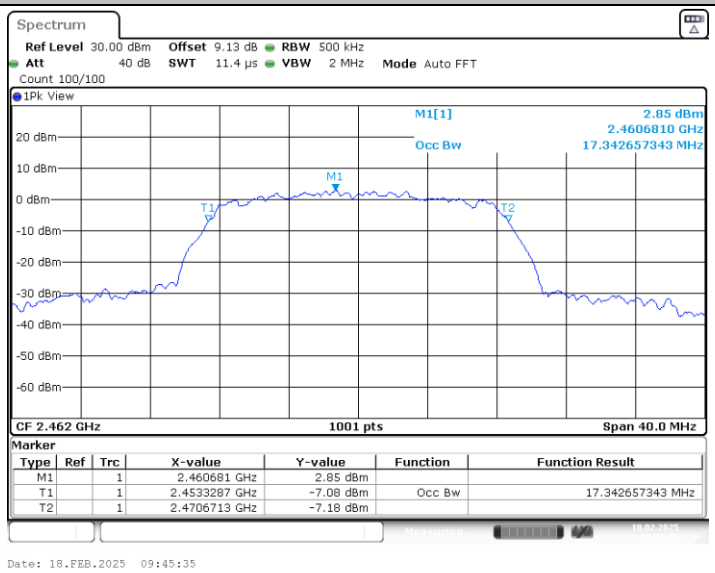

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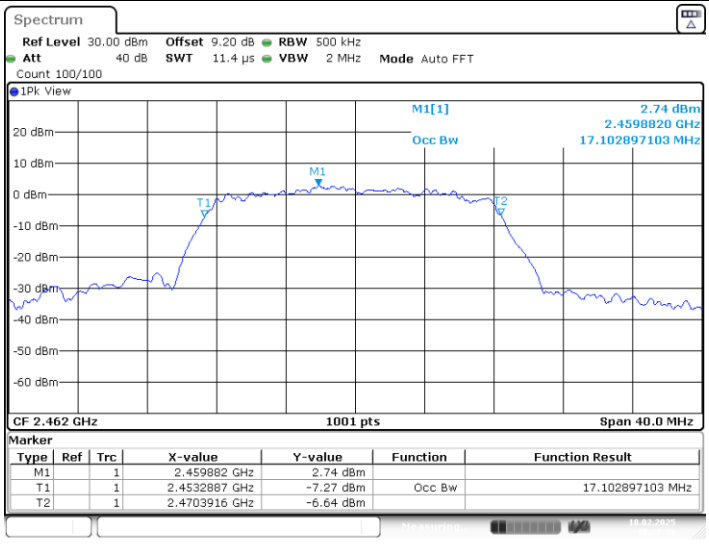

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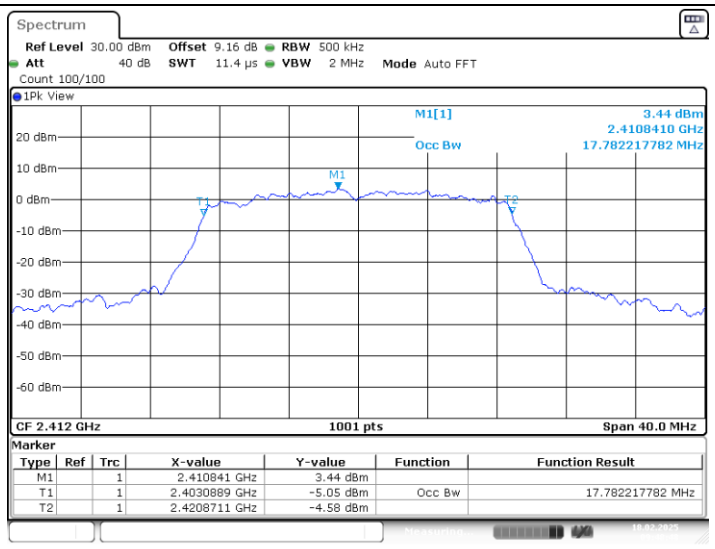

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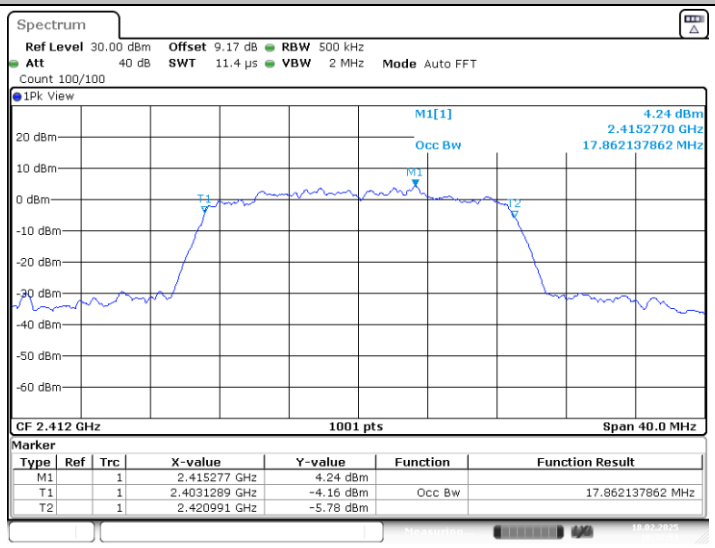

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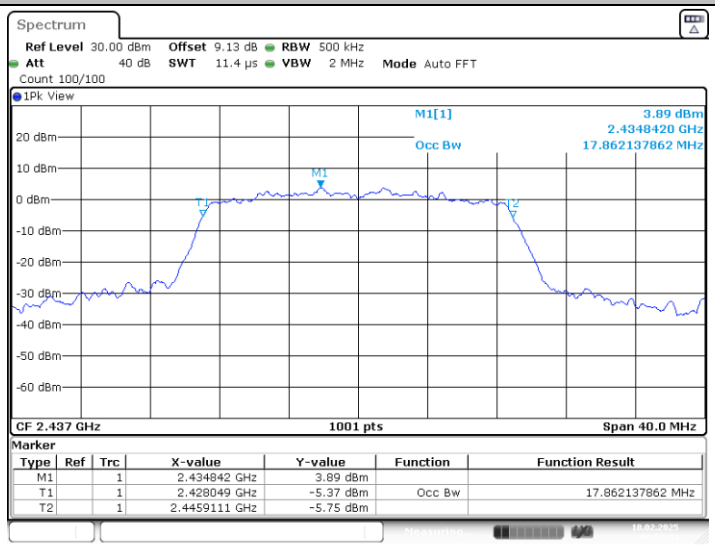

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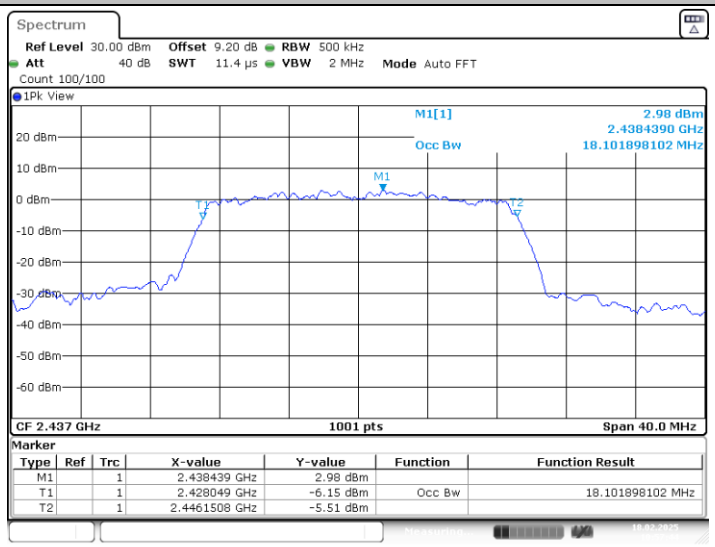

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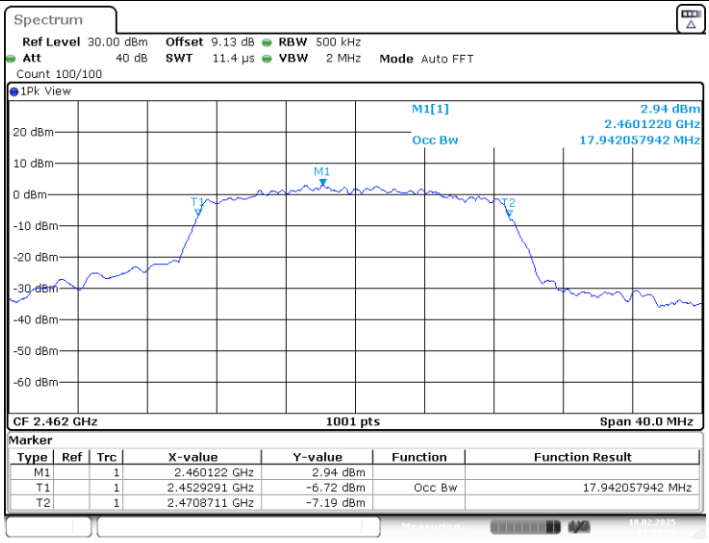

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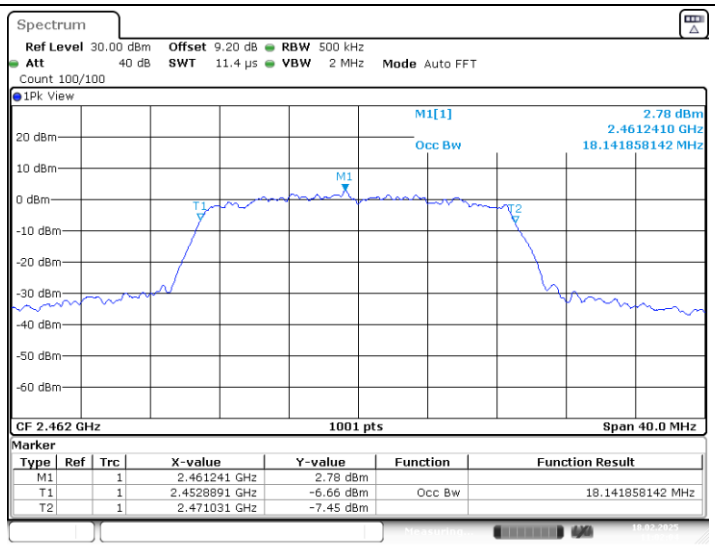

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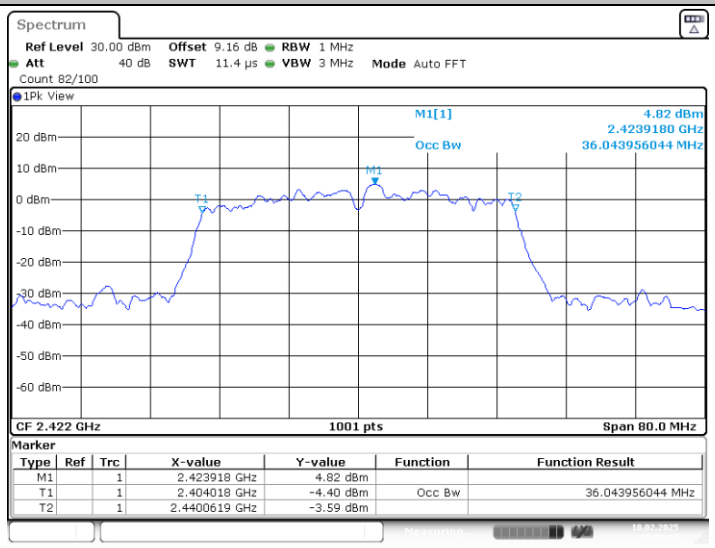

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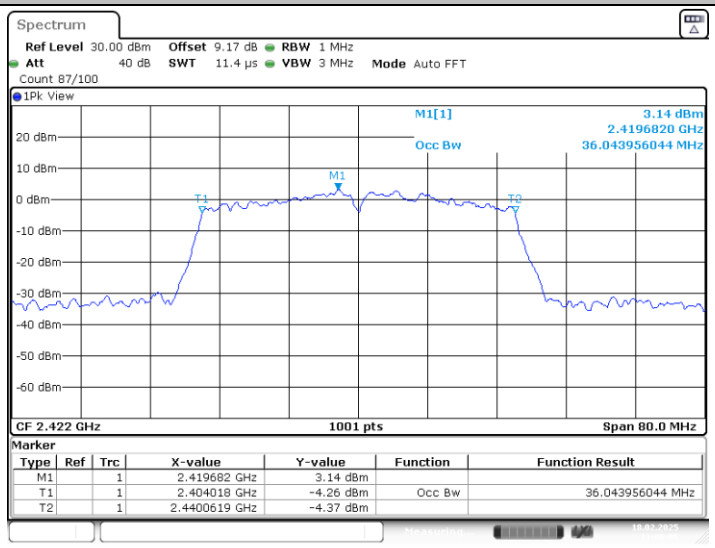
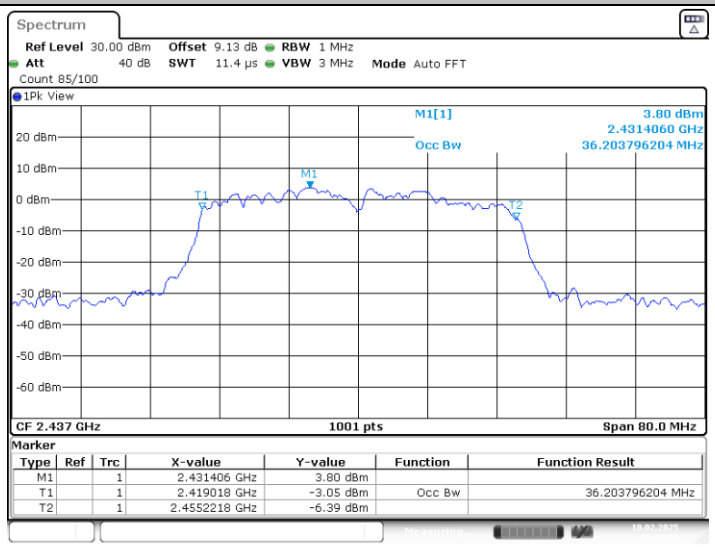
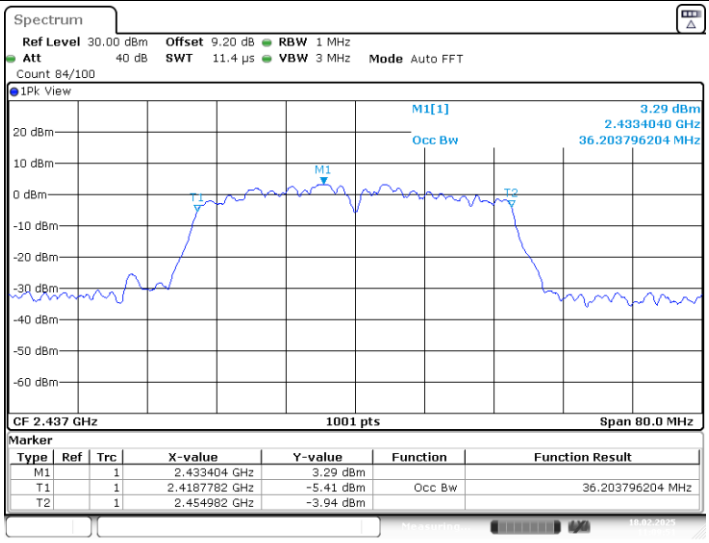


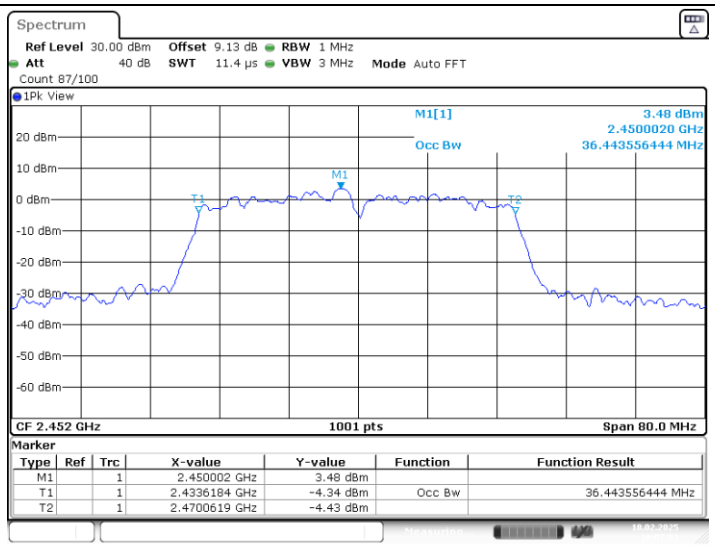
11N40MIMO_Ant1_2437



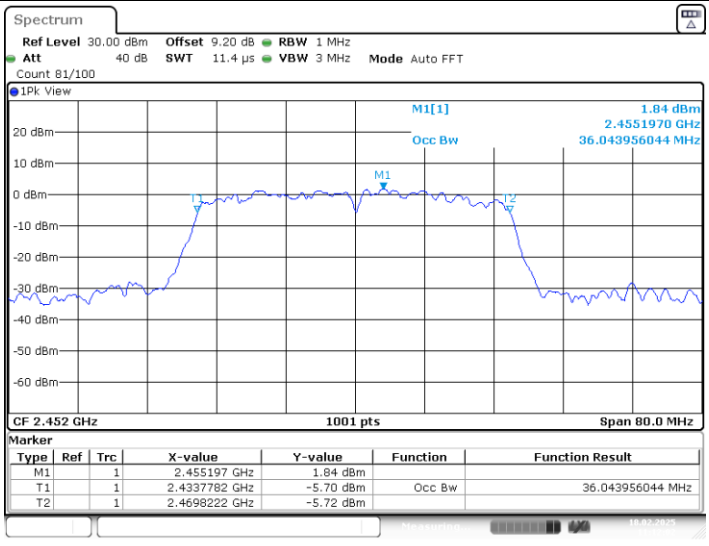
11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452



Appendix C: Maximum conducted output power

Test Result Average

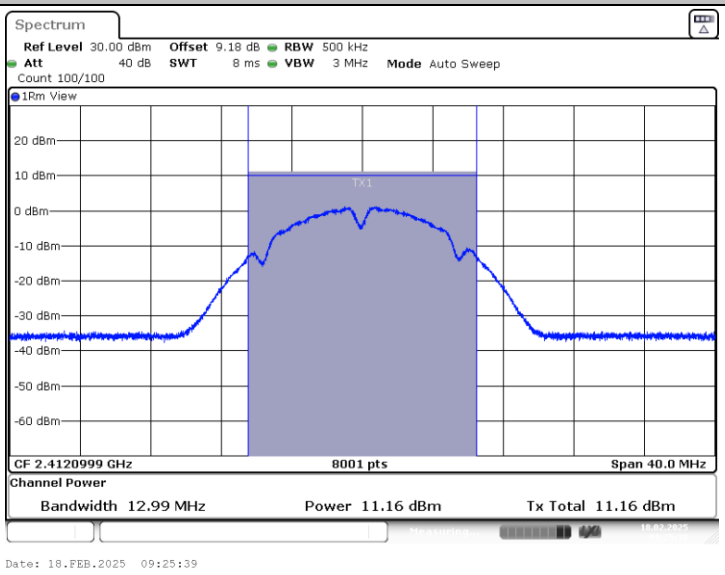
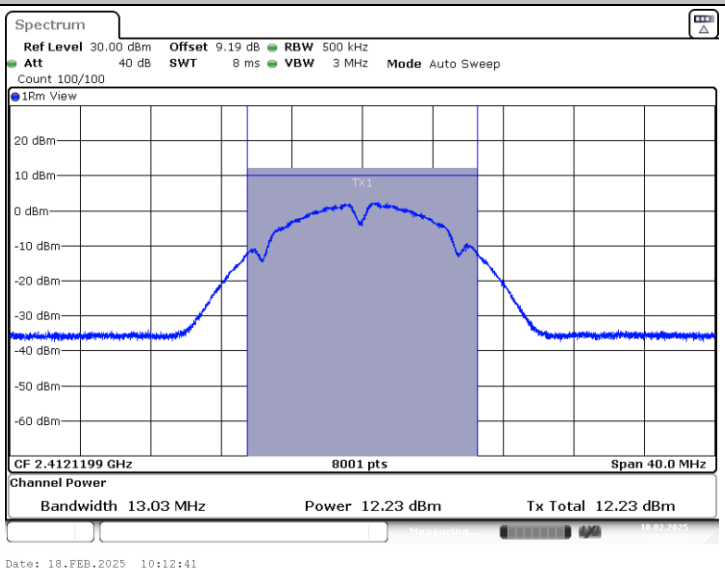
Test Mode	Antenna	Frequency[MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	11.14	99.64	0.02	11.16	≤30.00	PASS
	Ant2	2412	12.21	99.64	0.02	12.23	≤30.00	PASS
	Ant1	2437	9.24	99.76	0.01	9.25	≤30.00	PASS
	Ant2	2437	12.08	99.64	0.02	12.10	≤30.00	PASS
	Ant1	2462	10.87	99.64	0.02	10.89	≤30.00	PASS
	Ant2	2462	11.28	99.64	0.02	11.30	≤30.00	PASS
11G	Ant1	2412	9.78	97.20	0.12	9.90	≤30.00	PASS
	Ant2	2412	10.29	97.20	0.12	10.41	≤30.00	PASS
	Ant1	2437	9.93	97.20	0.12	10.05	≤30.00	PASS
	Ant2	2437	9.55	97.89	0.09	9.64	≤30.00	PASS
	Ant1	2462	8.92	97.20	0.12	9.04	≤30.00	PASS
	Ant2	2462	9.08	97.20	0.12	9.20	≤30.00	PASS
11N20MIMO	Ant1	2412	9.93	97.01	0.13	10.06	≤30.00	PASS
	Ant2	2412	10.05	97.01	0.13	10.18	≤30.00	PASS
	total	2412	---	---	---	13.13	≤30.00	PASS
	Ant1	2437	9.75	97.74	0.10	9.85	≤30.00	PASS
	Ant2	2437	9.98	97.01	0.13	10.11	≤30.00	PASS
	total	2437	---	---	---	12.99	≤30.00	PASS
	Ant1	2462	8.98	97.76	0.10	9.08	≤30.00	PASS
	Ant2	2462	8.86	97.01	0.13	8.99	≤30.00	PASS
	total	2462	---	---	---	12.05	≤30.00	PASS
11N40MIMO	Ant1	2422	9.30	94.20	0.26	9.56	≤30.00	PASS
	Ant2	2422	9.26	95.59	0.20	9.46	≤30.00	PASS
	total	2422	---	---	---	12.52	≤30.00	PASS
	Ant1	2437	9.07	94.20	0.26	9.33	≤30.00	PASS
	Ant2	2437	8.90	94.20	0.26	9.16	≤30.00	PASS
	total	2437	---	---	---	12.26	≤30.00	PASS
	Ant1	2452	8.44	94.12	0.26	8.70	≤30.00	PASS
	Ant2	2452	8.09	94.12	0.26	8.35	≤30.00	PASS
	total	2452	---	---	---	11.54	≤30.00	PASS

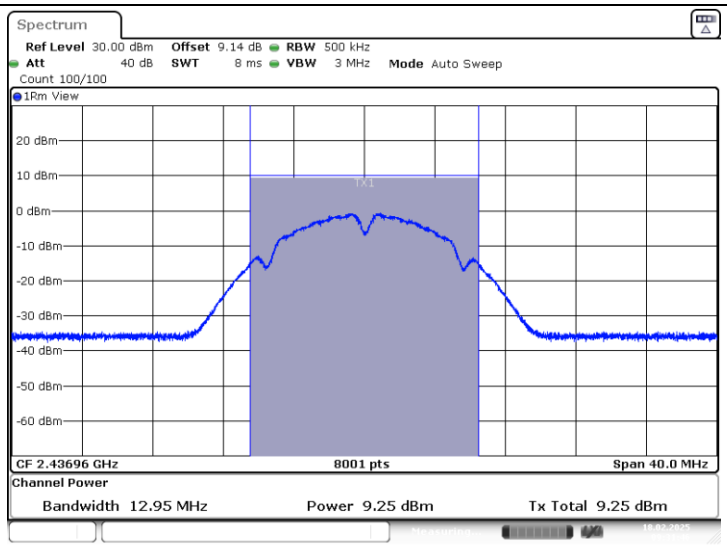
DC Factor = 10*log(1/ Duty Cycle)

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.

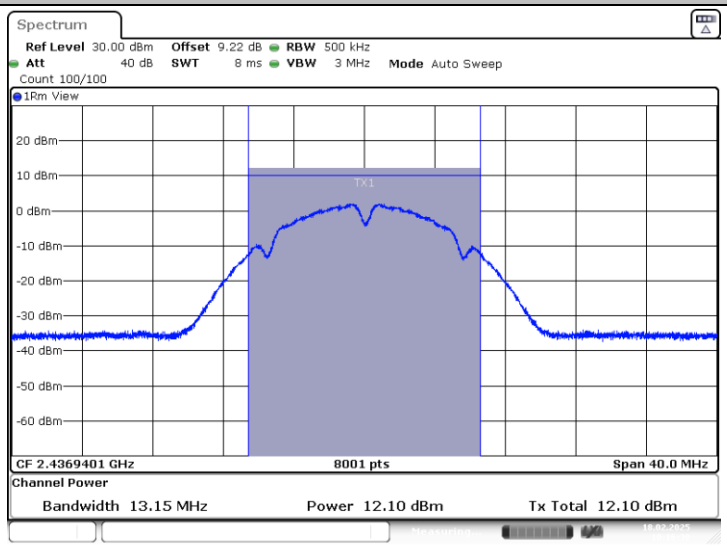
(First measure the power (mW) of each antenna separately, and the total power is equal to Ant1mW + Ant2mW+….)

Test Graphs Average

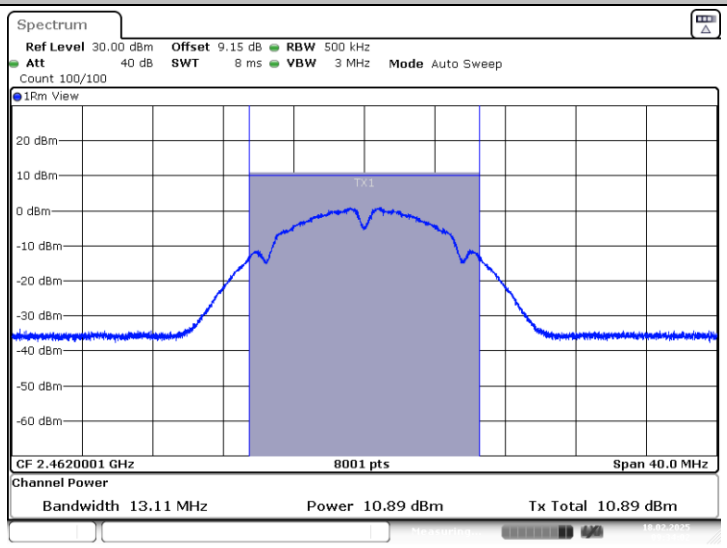
11B_Ant1_2412

11B_Ant2_2412

11B_Ant1_2437



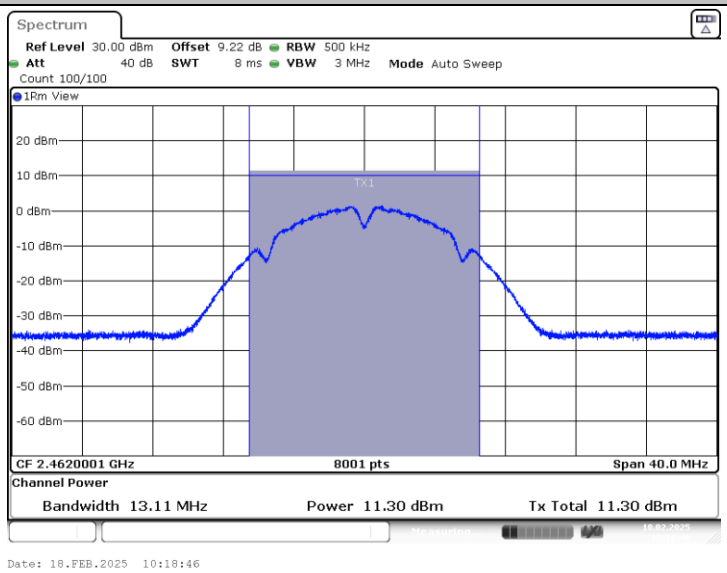
11B_Ant2_2437



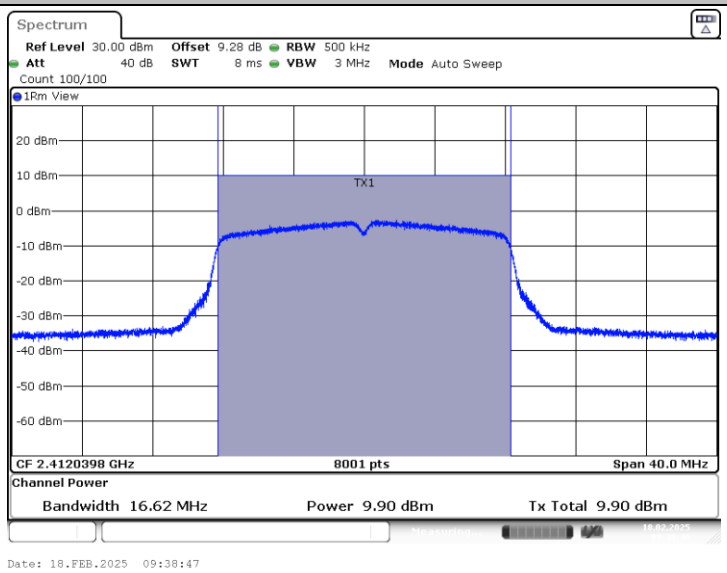
11B_Ant1_2462



11B_Ant2_2462



11G_Ant1_2412



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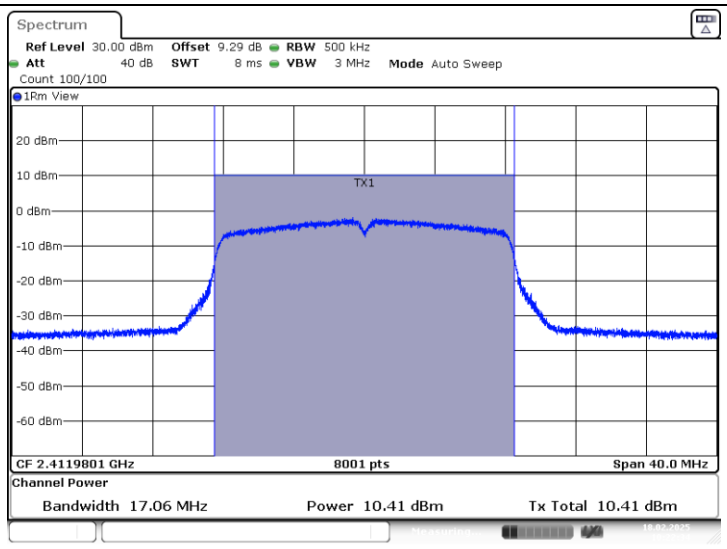

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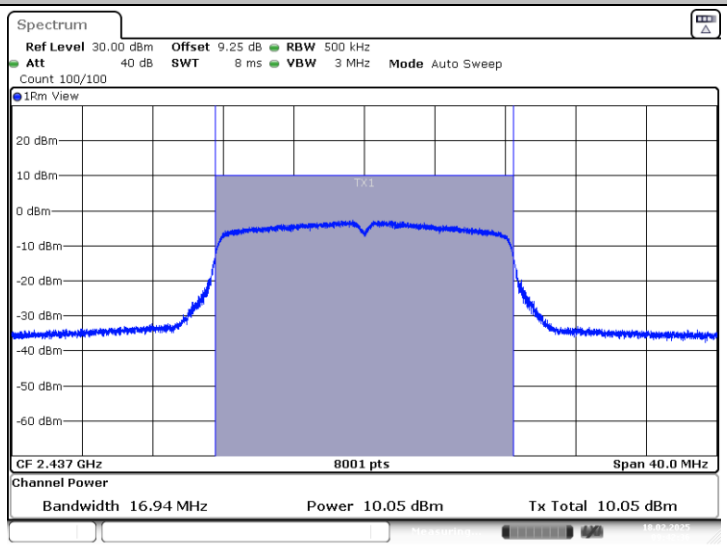

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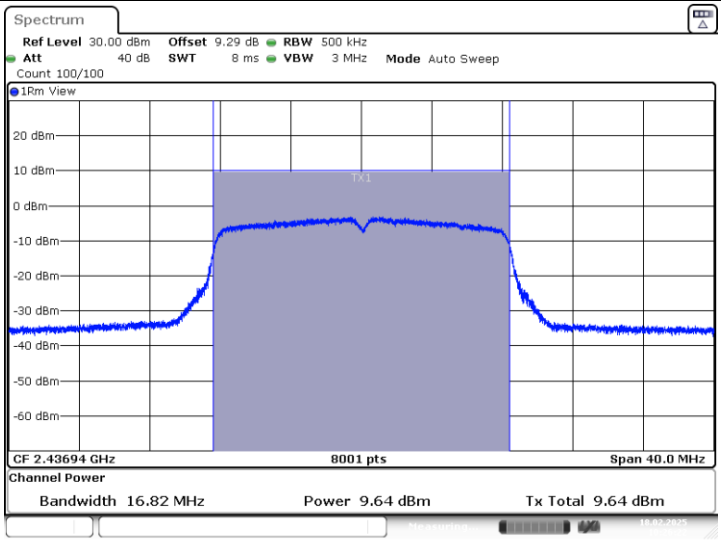

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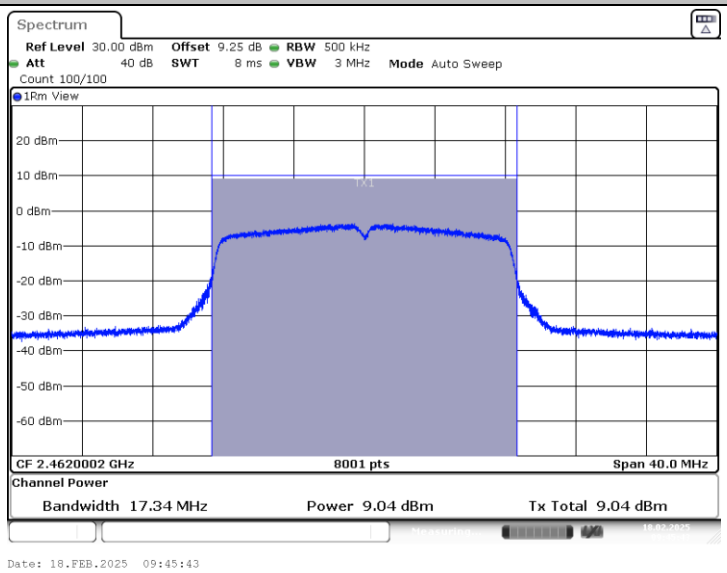

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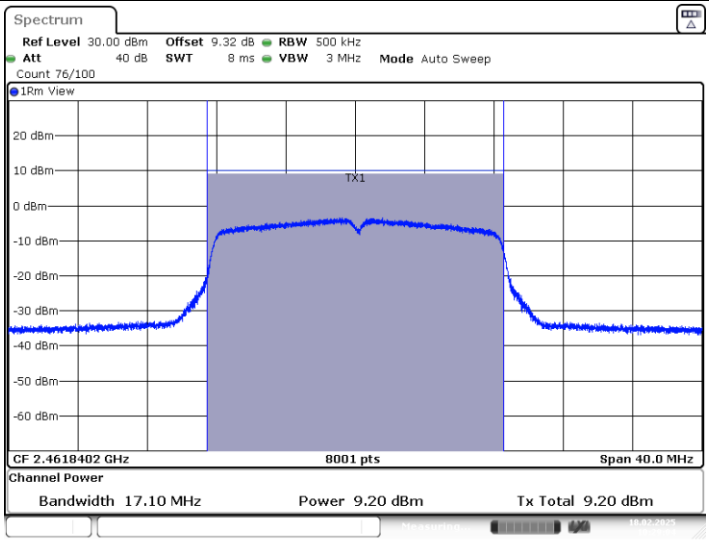

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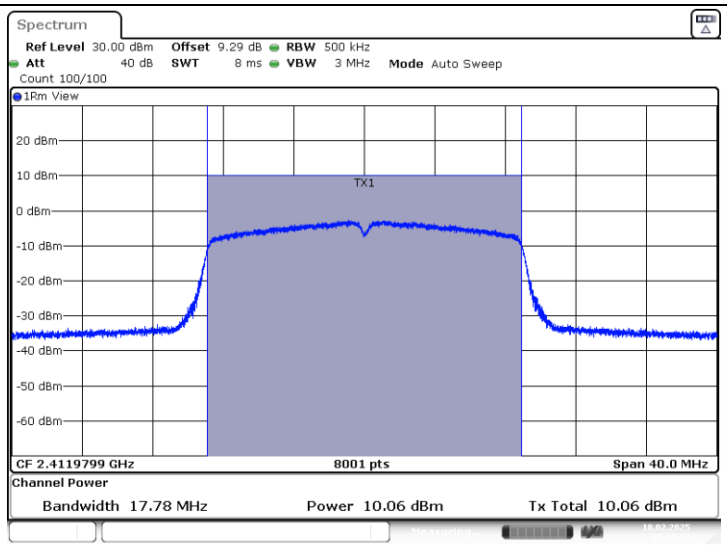
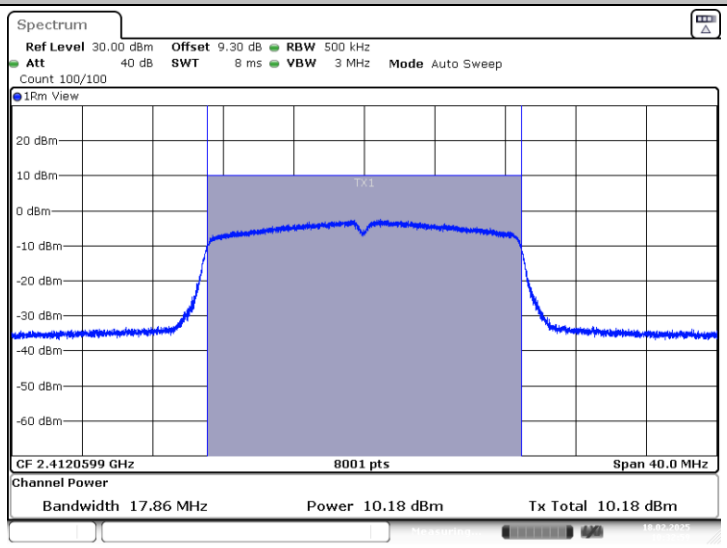


11N20MIMO_Ant2_2412



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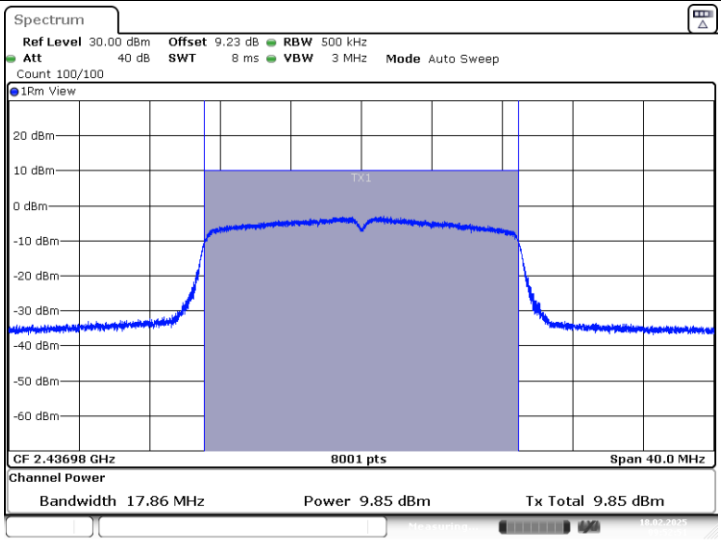

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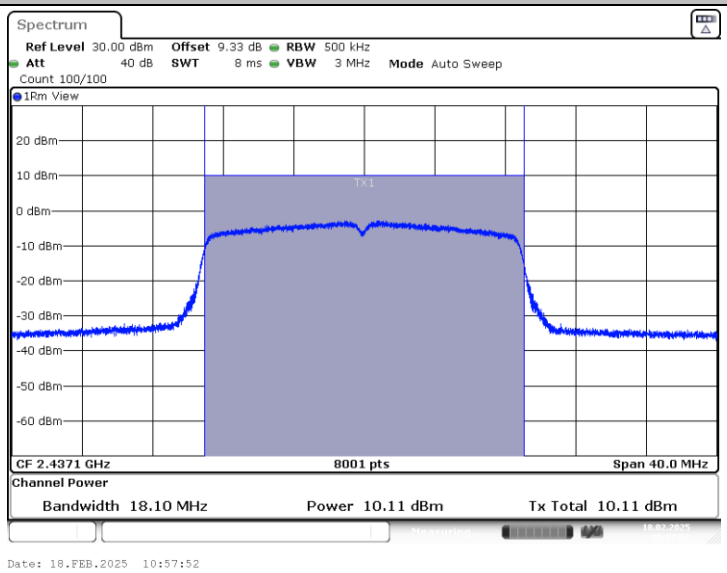
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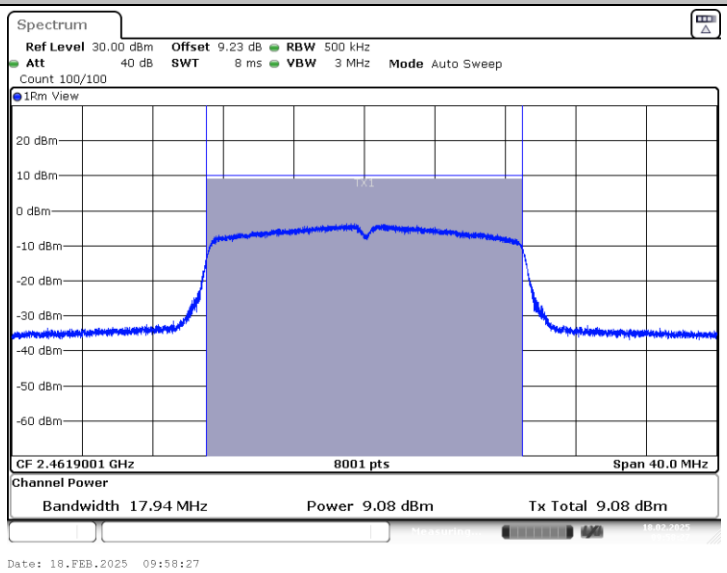
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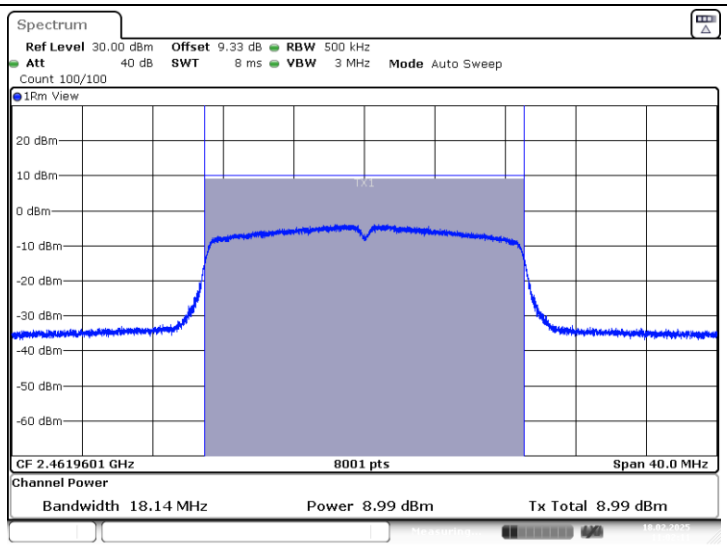

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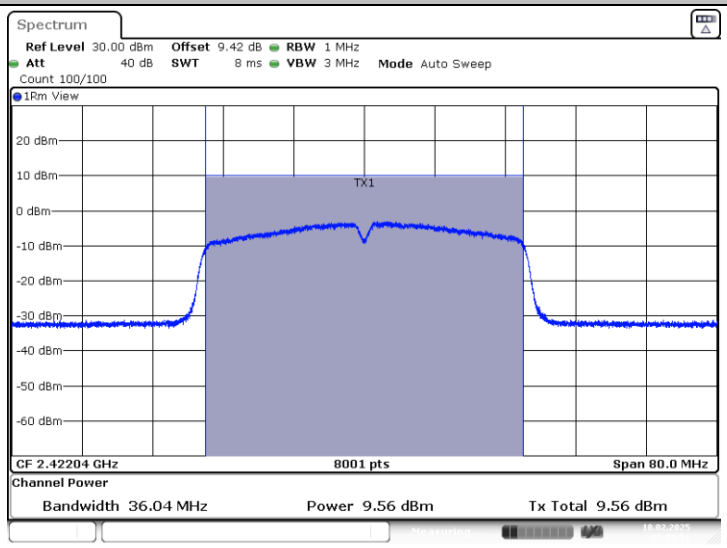

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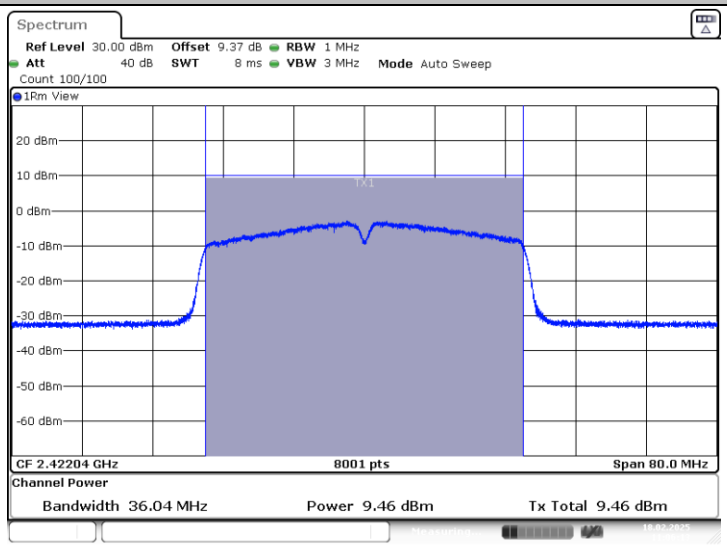

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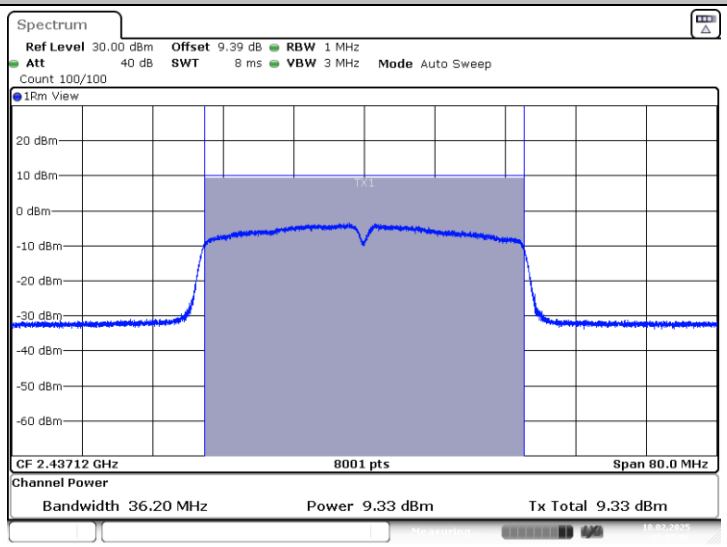
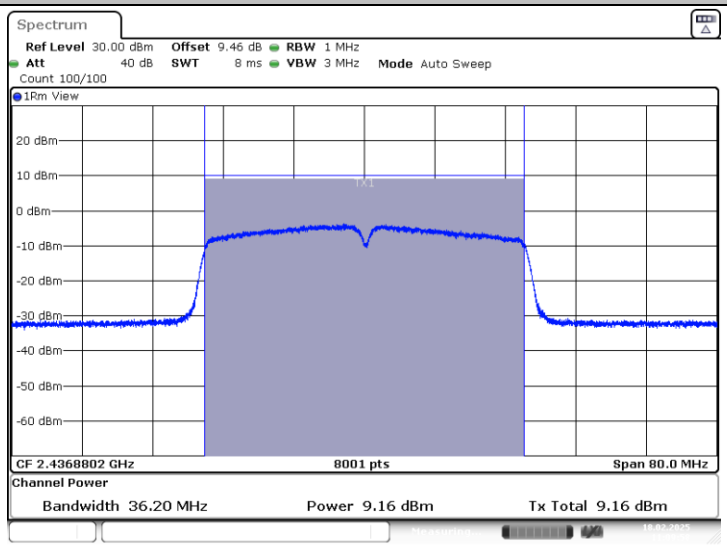


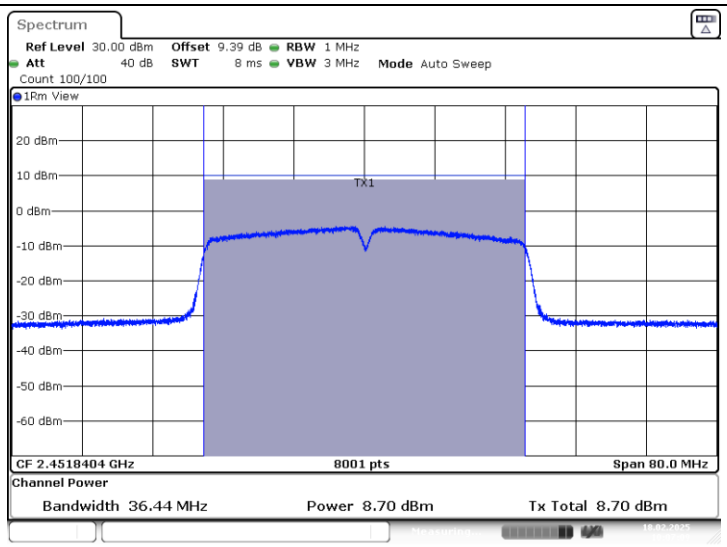
Date: 18.FEB.2025 10:05:07

11N40MIMO_Ant2_2437



Date: 18.FEB.2025 11:09:58

11N40MIMO_Ant1_2452



Date: 18.FEB.2025 10:07:09

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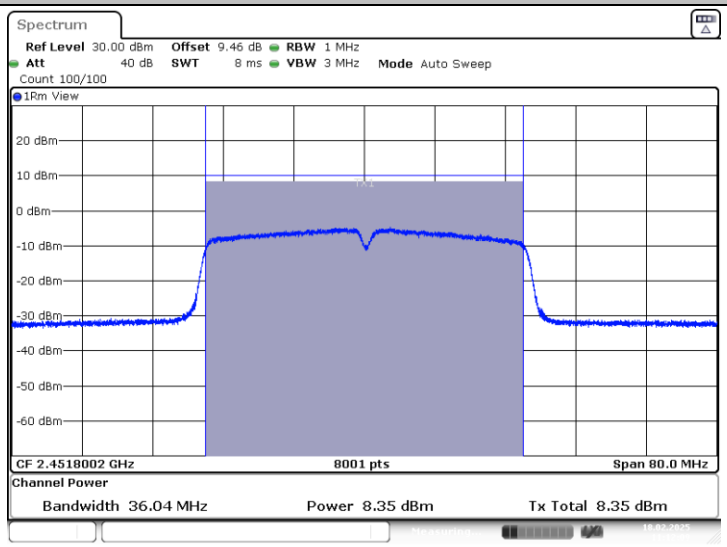


Date: 18.FEB.2025 11:12:09

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-18.81	≤8.00	PASS
	Ant2	2412	-18.03	≤8.00	PASS
	Ant1	2437	-20.74	≤8.00	PASS
	Ant2	2437	-18.26	≤8.00	PASS
	Ant1	2462	-19.18	≤8.00	PASS
	Ant2	2462	-18.86	≤8.00	PASS
11G	Ant1	2412	-21.87	≤8.00	PASS
	Ant2	2412	-21.28	≤8.00	PASS
	Ant1	2437	-21.90	≤8.00	PASS
	Ant2	2437	-22.20	≤8.00	PASS
	Ant1	2462	-22.48	≤8.00	PASS
	Ant2	2462	-22.37	≤8.00	PASS
11N20MIMO	Ant1	2412	-21.75	≤8.00	PASS
	Ant2	2412	-21.68	≤8.00	PASS
	total	2412	-18.70	≤8.00	PASS
	Ant1	2437	-21.54	≤8.00	PASS
	Ant2	2437	-22.05	≤8.00	PASS
	total	2437	-18.78	≤8.00	PASS
	Ant1	2462	-22.89	≤8.00	PASS
	Ant2	2462	-23.13	≤8.00	PASS
	total	2462	-20.00	≤8.00	PASS
11N40MIMO	Ant1	2422	-23.71	≤8.00	PASS
	Ant2	2422	-24.82	≤8.00	PASS
	total	2422	-21.22	≤8.00	PASS
	Ant1	2437	-24.80	≤8.00	PASS
	Ant2	2437	-25.03	≤8.00	PASS
	total	2437	-21.90	≤8.00	PASS
	Ant1	2452	-25.24	≤8.00	PASS
	Ant2	2452	-25.85	≤8.00	PASS
	total	2452	-22.52	≤8.00	PASS

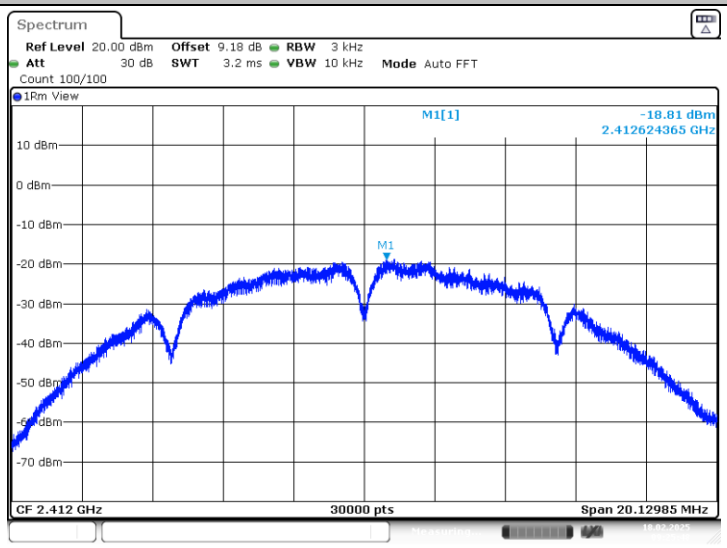
DC Factor = 10*log(1/ Duty Cycle)

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.

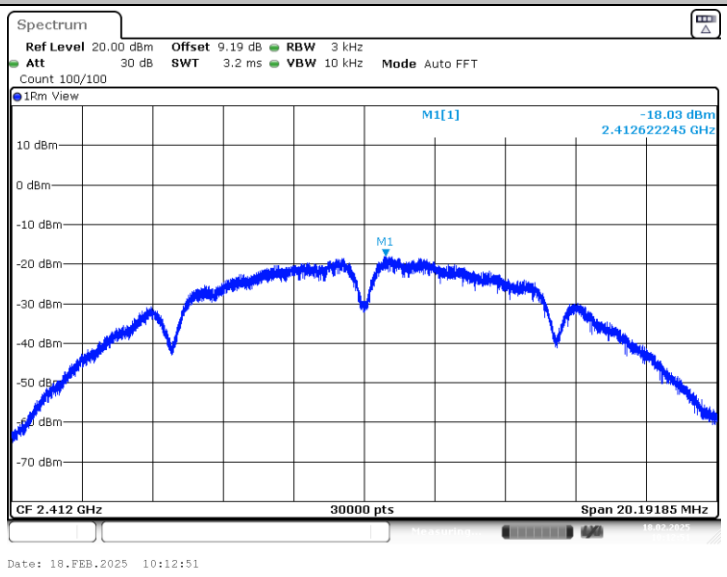
(First measure the power (mW) of each antenna separately, and the total power is equal to Ant1mW + Ant2mW+….)

Test Graphs

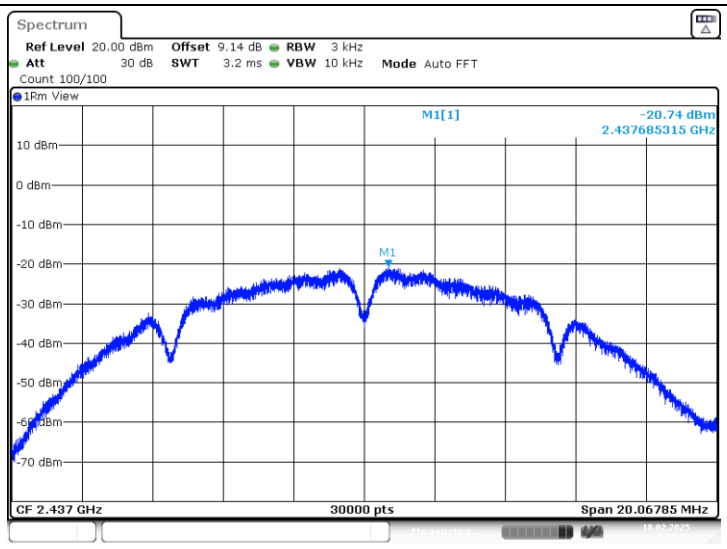
11B_Ant1_2412



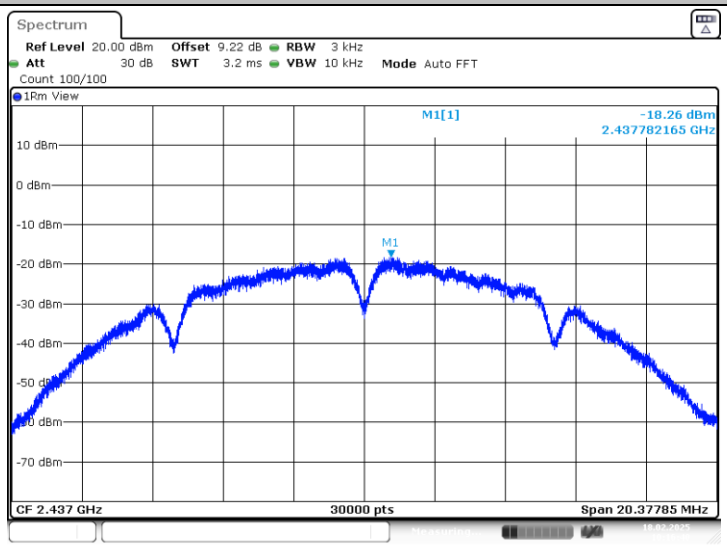
11B_Ant2_2412



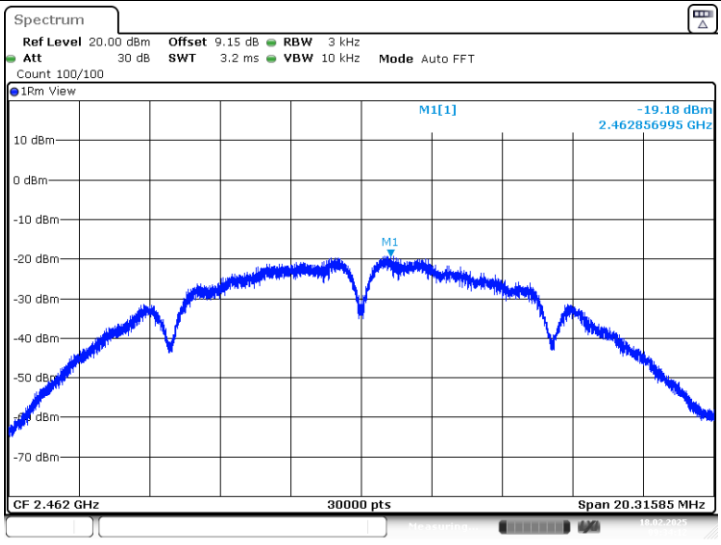
11B_Ant1_2437



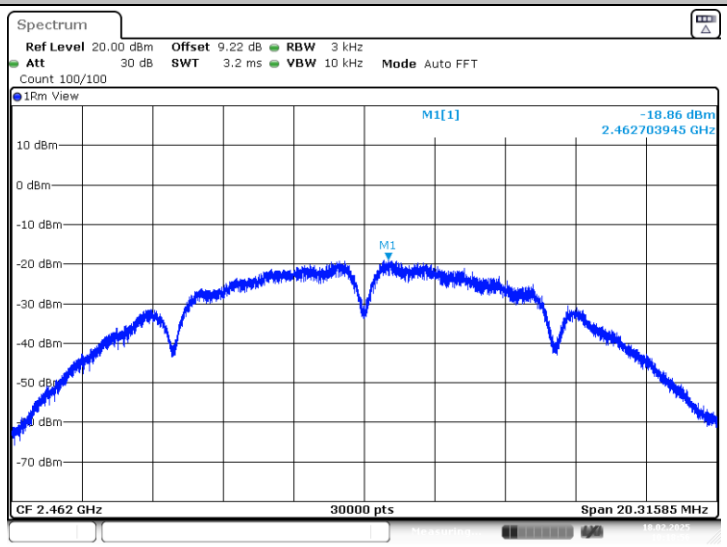
11B_Ant2_2437



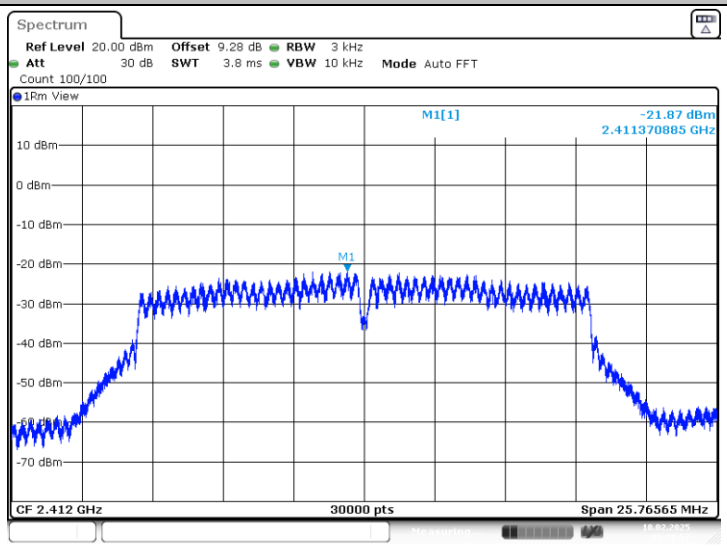
11B_Ant1_2462



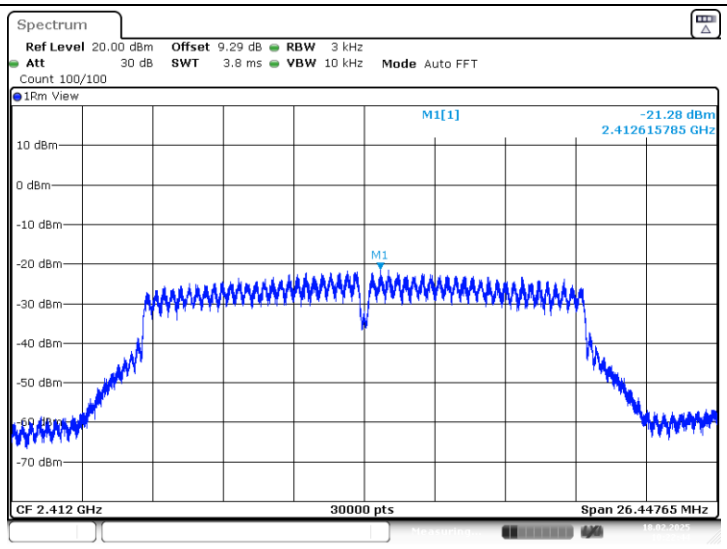
11B_Ant2_2462



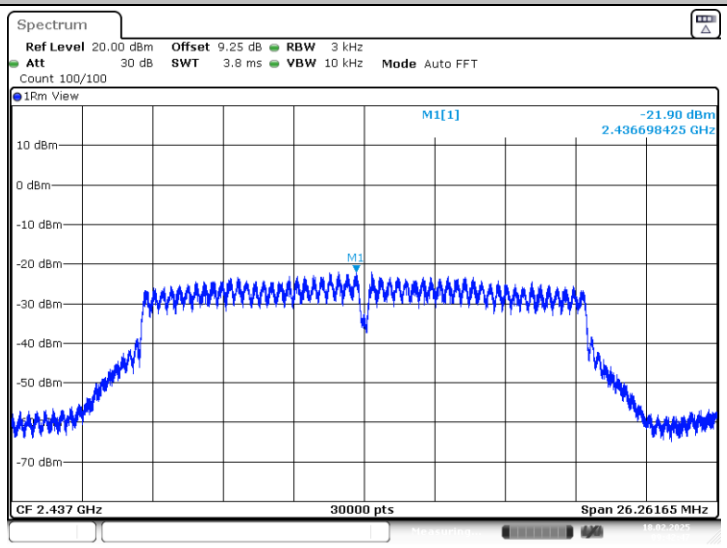
11G_Ant1_2412



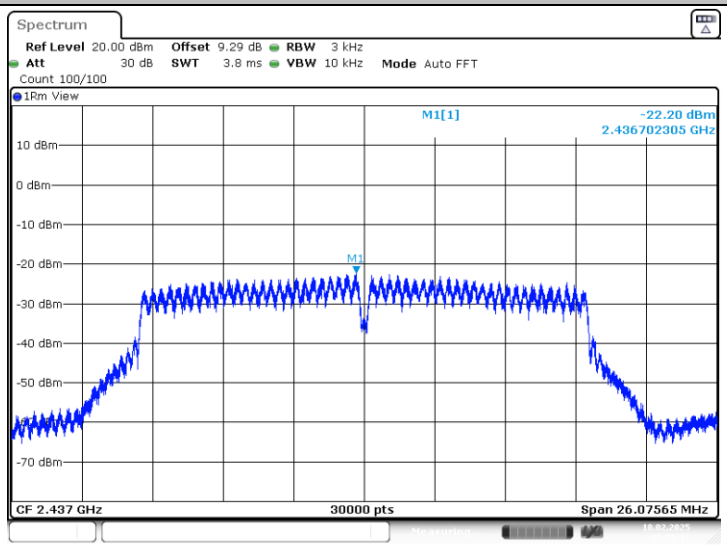
11G_Ant2_2412



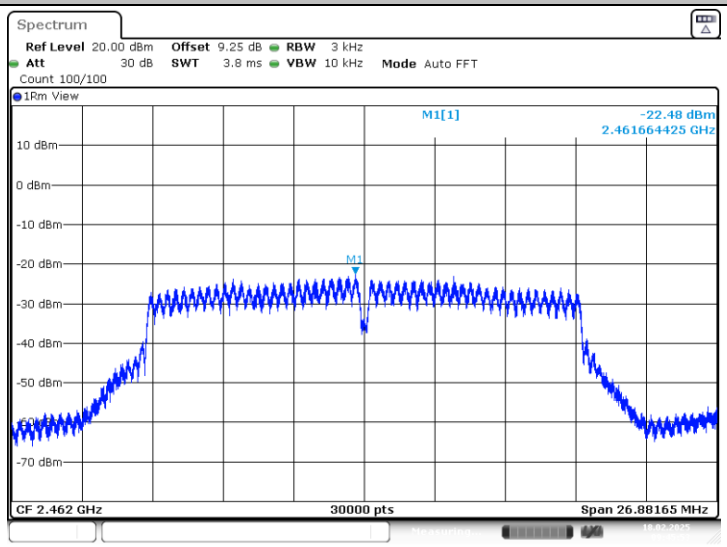
11G_Ant1_2437



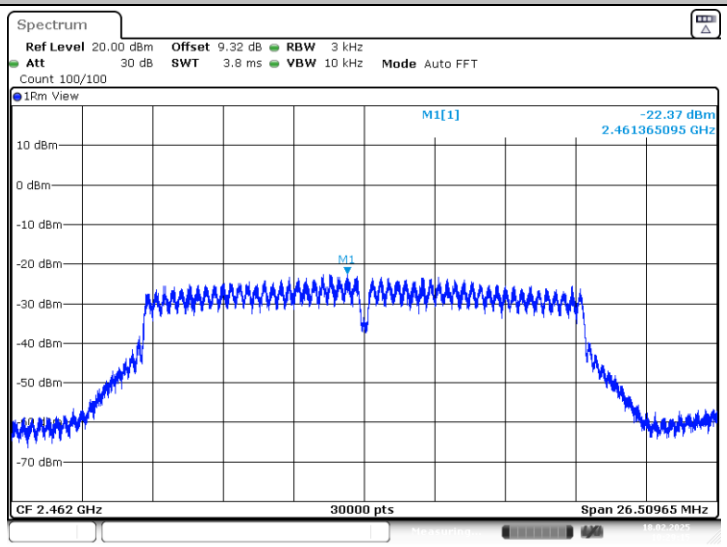
11G_Ant2_2437



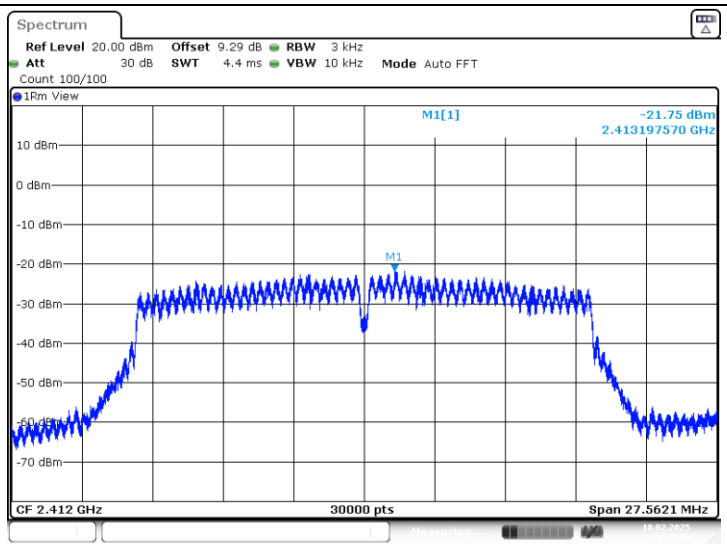
11G_Ant1_2462



11G_Ant2_2462



11N20MIMO_Ant1_2412



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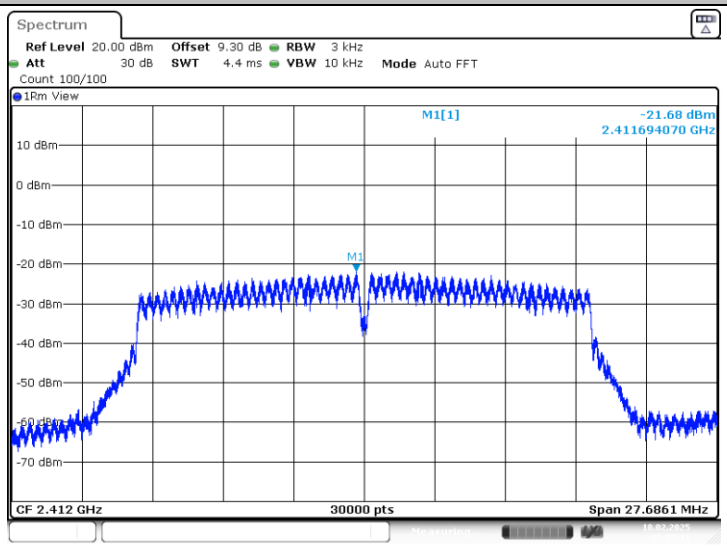

11N20MIMO_Ant1_2437