Appendix Test Data

Report No.:	18220WC30225803	Test Sample No.:	1-2-2
Start Test Date:	2023.11.06	Finish Test Date:	2023.11.07
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	26.5℃	Relative Humidity:	49%
Pressure:	101kPa		

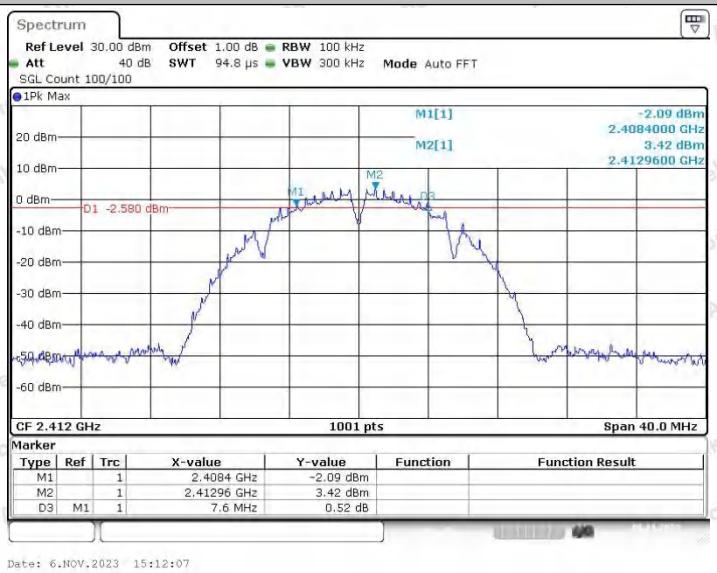
Appendix A: DTS Bandwidth

Test Result

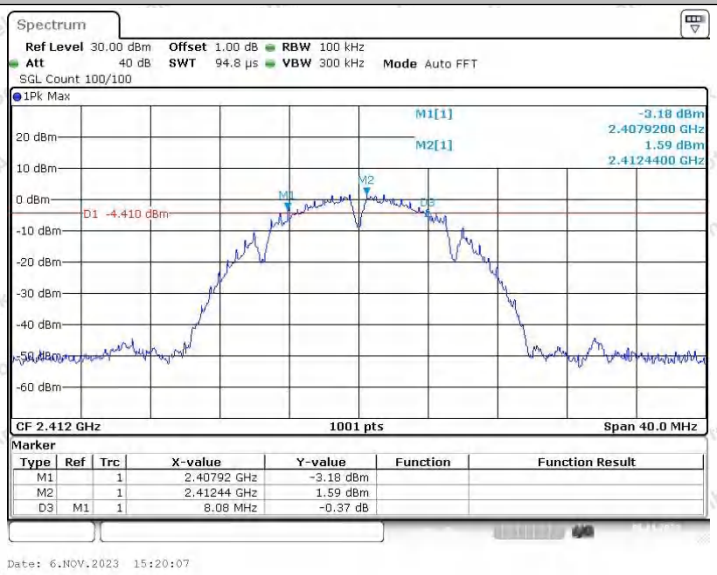
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.60	2408.40	2416.00	≥0.5	PASS
	Ant2	2412	8.08	2407.92	2416.00	≥0.5	PASS
	Ant1	2437	8.56	2432.44	2441.00	≥0.5	PASS
	Ant2	2437	8.08	2432.92	2441.00	≥0.5	PASS
	Ant1	2462	8.56	2457.44	2466.00	≥0.5	PASS
	Ant2	2462	7.08	2458.40	2465.48	≥0.5	PASS
11G	Ant1	2412	15.08	2404.40	2419.48	≥0.5	PASS
	Ant2	2412	15.36	2404.76	2420.12	≥0.5	PASS
	Ant1	2437	16.32	2428.80	2445.12	≥0.5	PASS
	Ant2	2437	16.28	2428.84	2445.12	≥0.5	PASS
	Ant1	2462	13.72	2454.48	2468.20	≥0.5	PASS
	Ant2	2462	15.08	2454.40	2469.48	≥0.5	PASS
11N20SISO	Ant1	2412	15.56	2404.80	2420.36	≥0.5	PASS
	Ant2	2412	15.04	2404.44	2419.48	≥0.5	PASS
	Ant1	2437	15.24	2429.48	2444.72	≥0.5	PASS
	Ant2	2437	17.60	2428.16	2445.76	≥0.5	PASS
	Ant1	2462	12.20	2455.68	2467.88	≥0.5	PASS
	Ant2	2462	15.96	2453.56	2469.52	≥0.5	PASS
11N40SISO	Ant1	2422	35.46	2404.42	2439.88	≥0.5	PASS
	Ant2	2422	30.90	2405.68	2436.58	≥0.5	PASS
	Ant1	2437	31.56	2422.96	2454.52	≥0.5	PASS
	Ant2	2437	35.04	2419.48	2454.52	≥0.5	PASS
	Ant1	2452	30.00	2434.48	2464.48	≥0.5	PASS
	Ant2	2452	30.12	2434.42	2464.54	≥0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant2_2412



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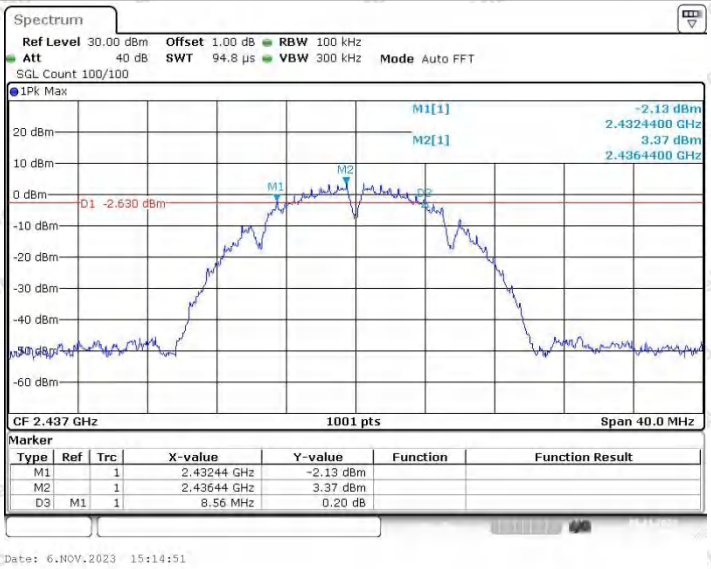

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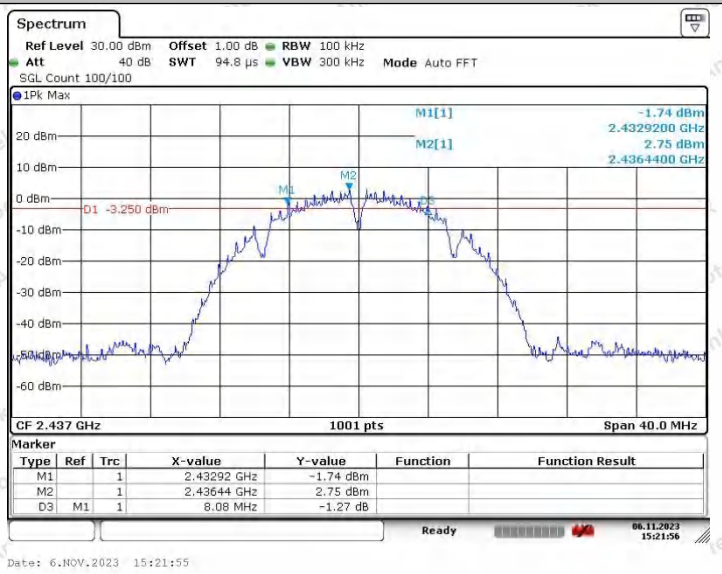

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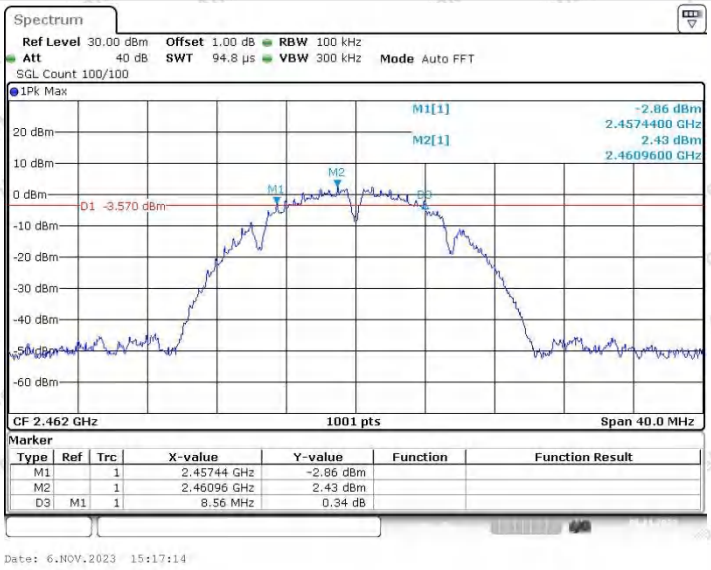

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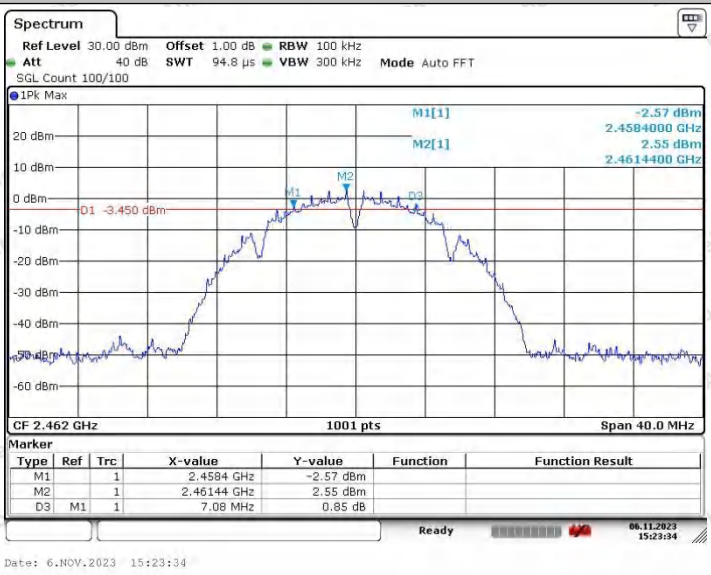

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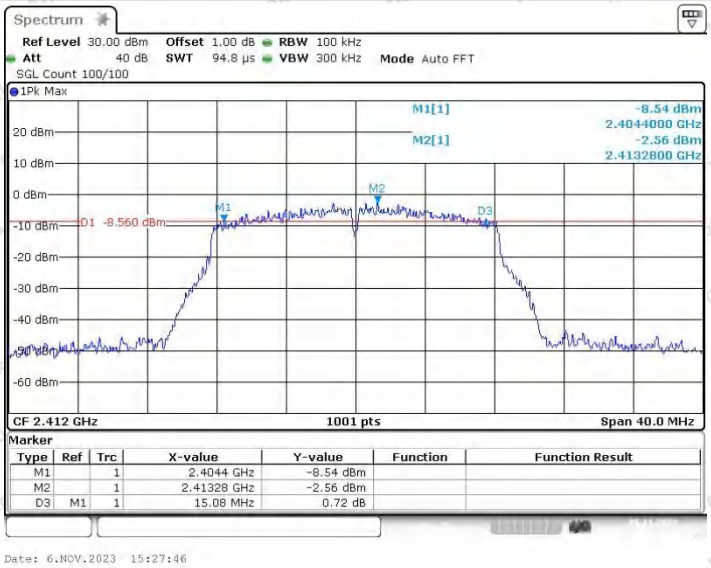

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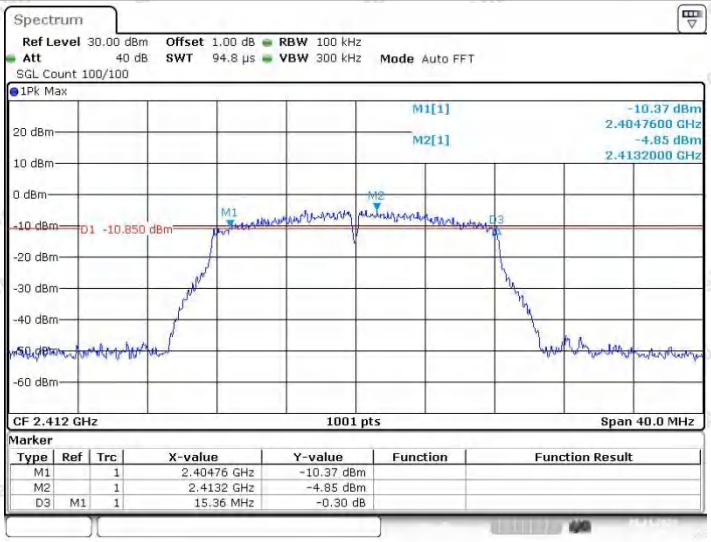

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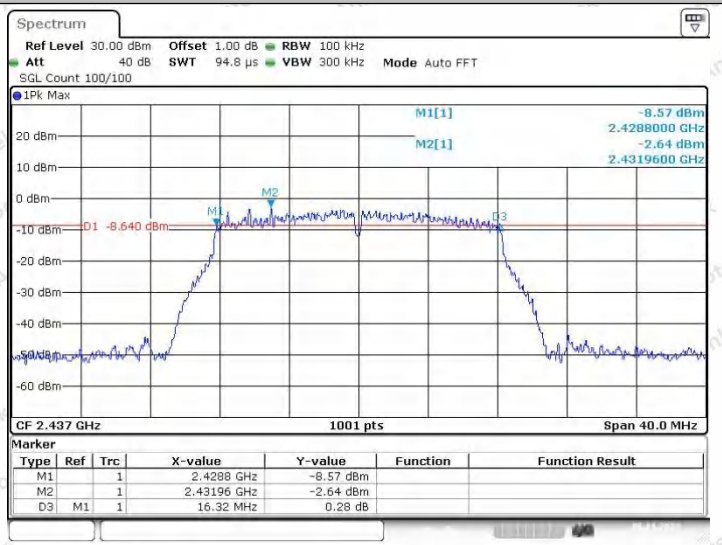

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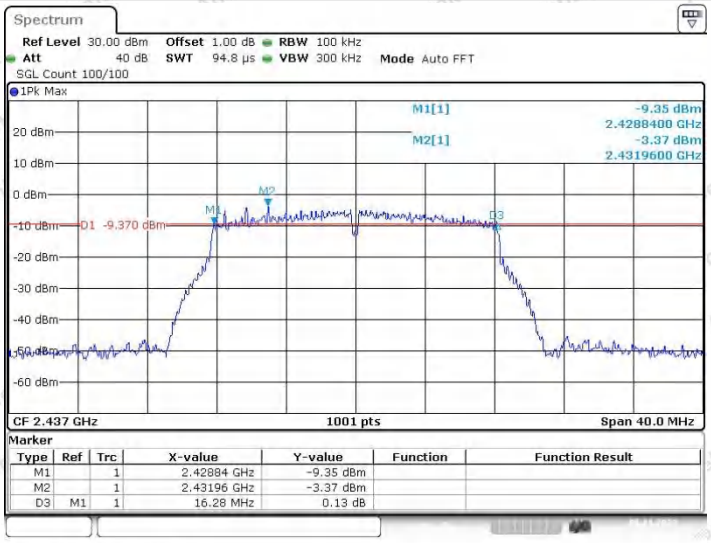

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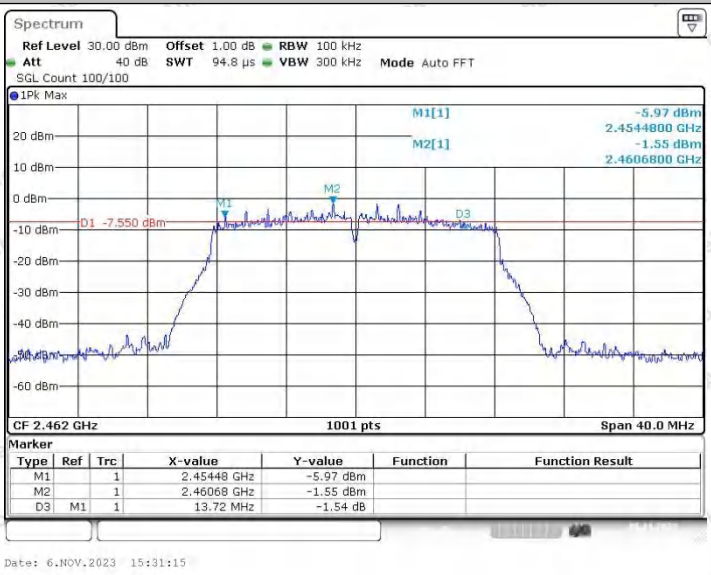

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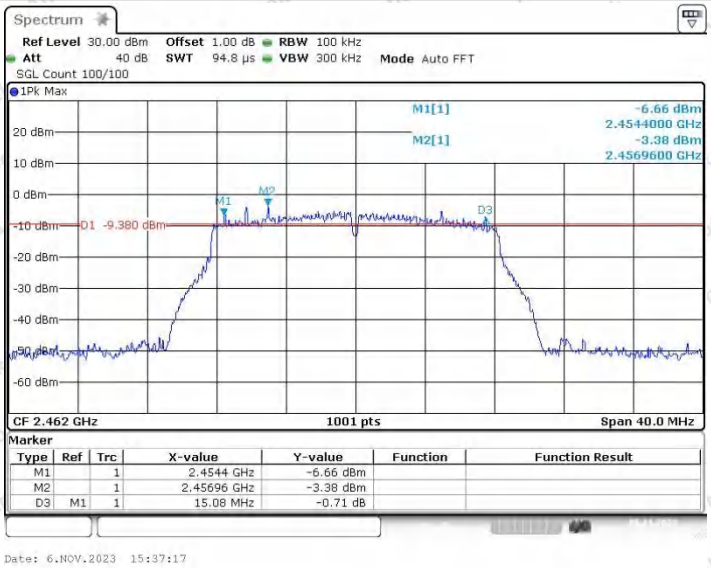

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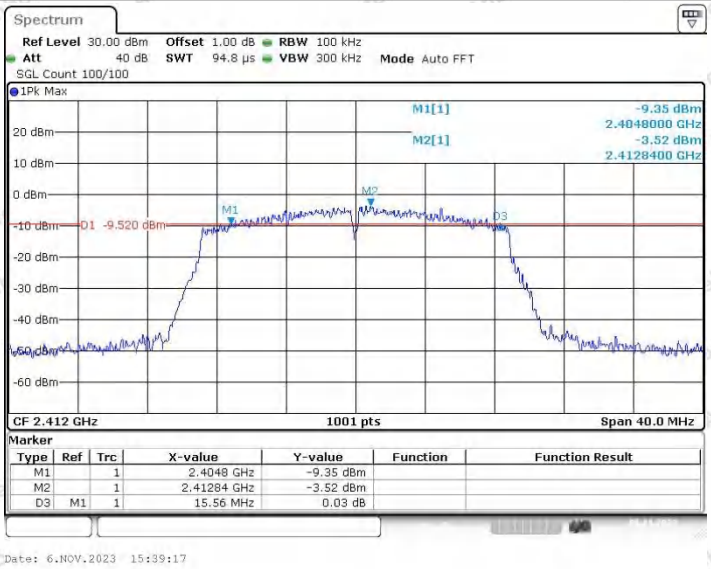

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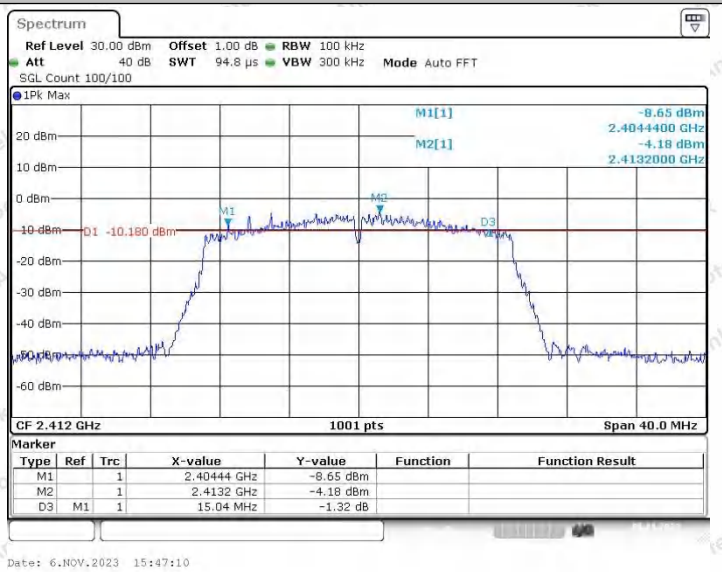

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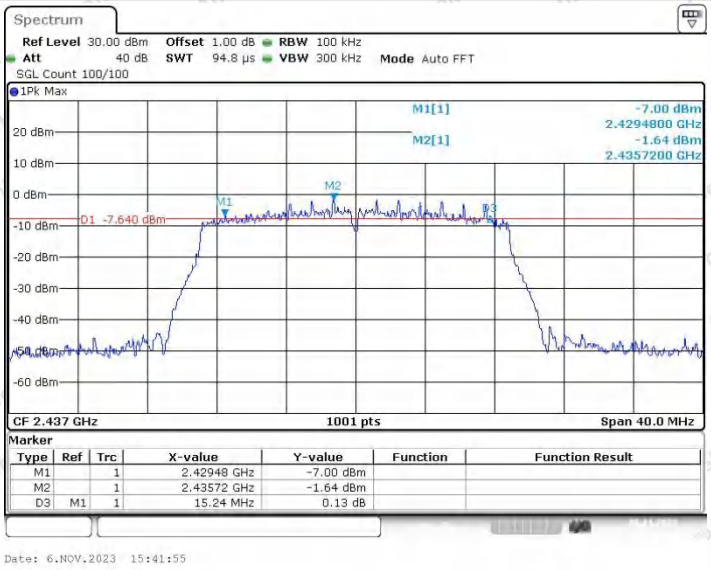

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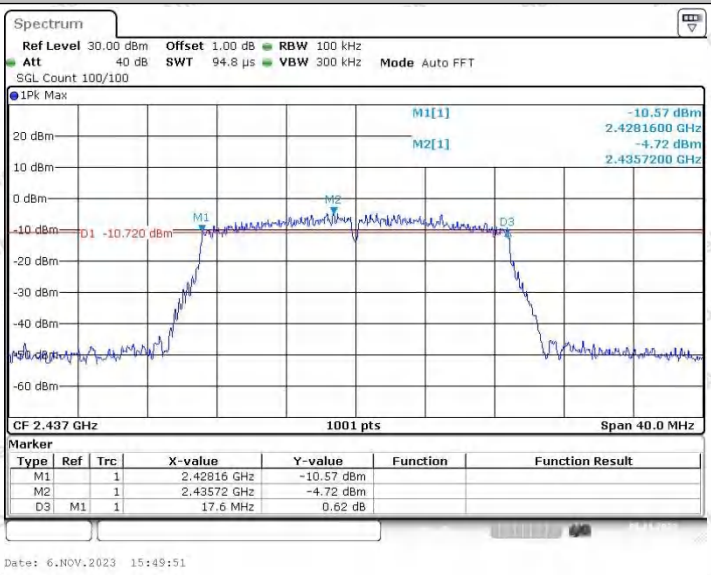

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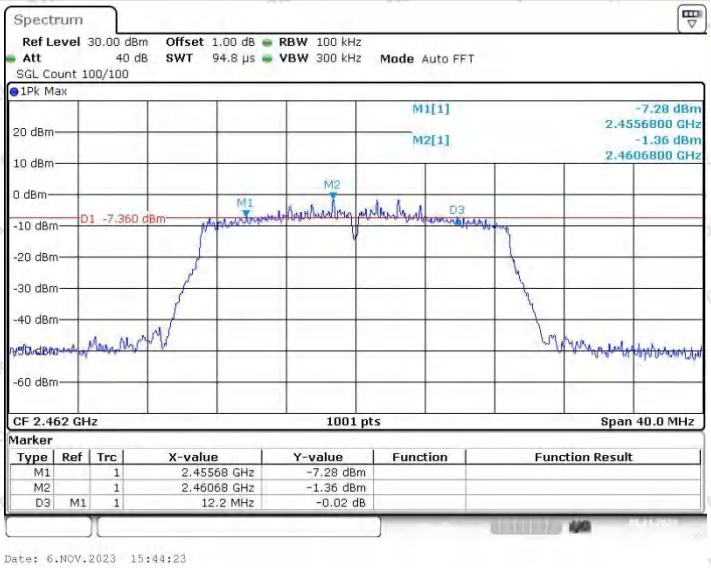

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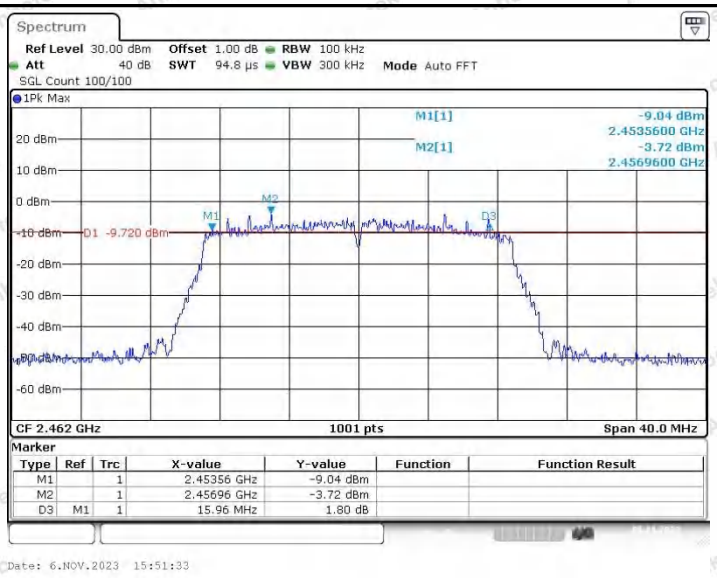

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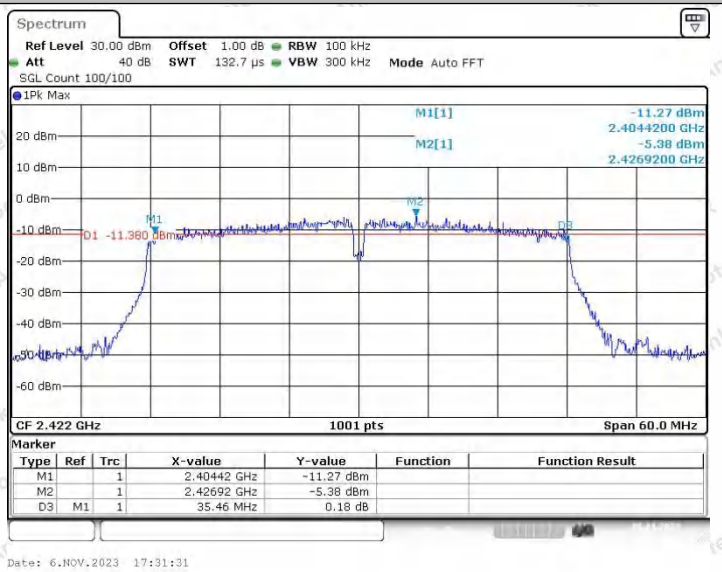

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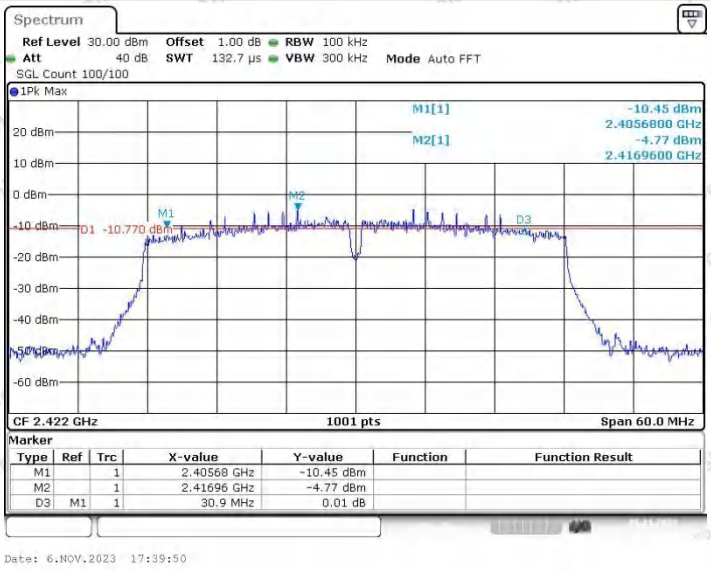

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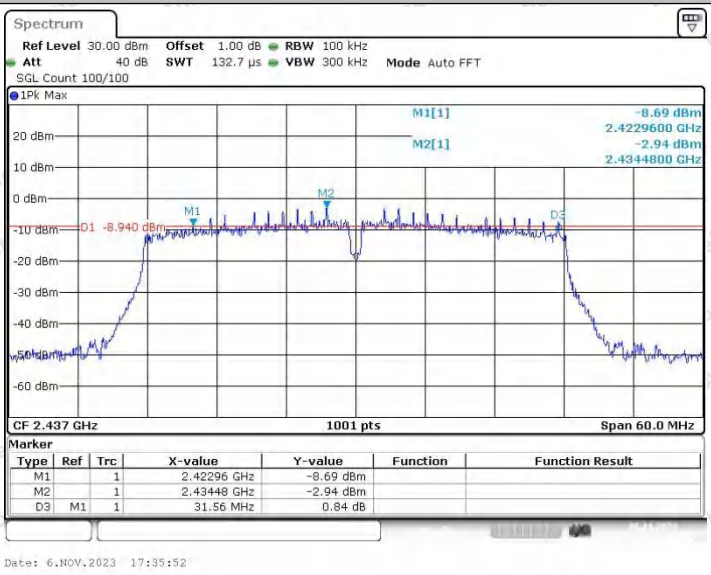

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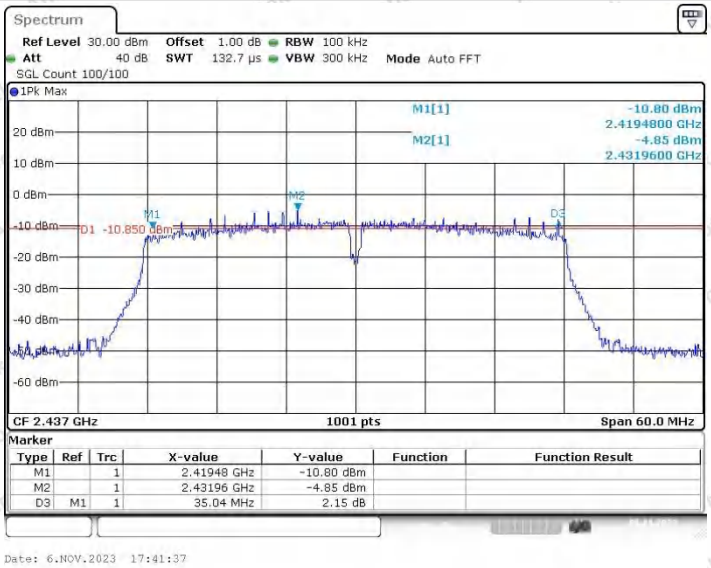

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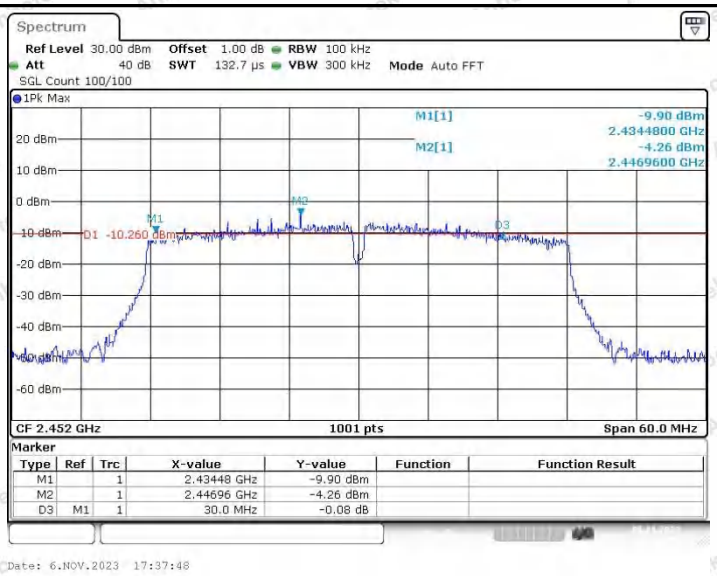

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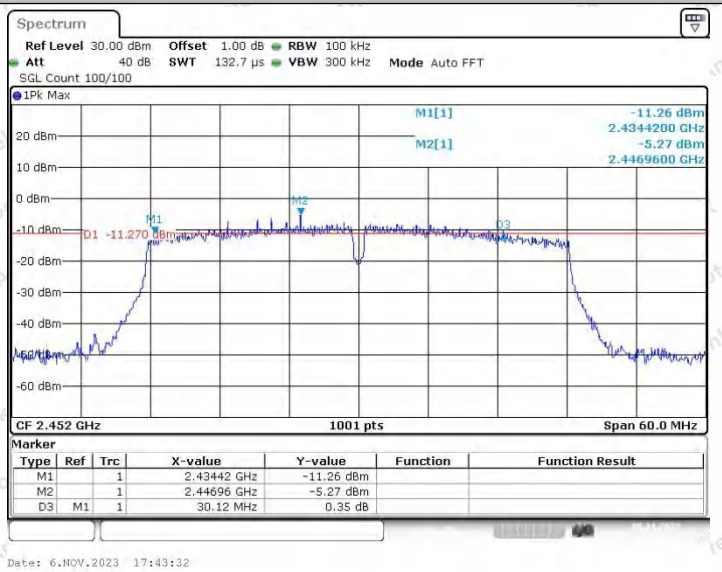


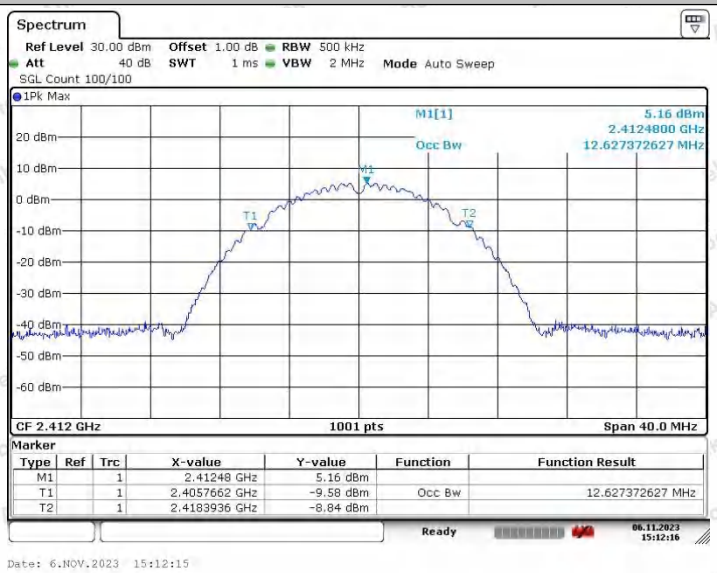
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.627	2405.7662	2418.3936	---	---
	Ant2	2412	12.468	2405.8462	2418.3137	---	---
	Ant1	2437	12.787	2430.6064	2443.3936	---	---
	Ant2	2437	12.627	2430.6863	2443.3137	---	---
	Ant1	2462	12.787	2455.5265	2468.3137	---	---
	Ant2	2462	12.667	2455.5664	2468.2338	---	---
11G	Ant1	2412	16.623	2403.6883	2420.3117	---	---
	Ant2	2412	16.623	2403.7283	2420.3516	---	---
	Ant1	2437	16.943	2428.4885	2445.4316	---	---
	Ant2	2437	16.983	2428.4885	2445.4715	---	---
	Ant1	2462	16.903	2453.4885	2470.3916	---	---
	Ant2	2462	16.943	2453.4486	2470.3916	---	---
11N20SISO	Ant1	2412	17.622	2403.2088	2420.8312	---	---
	Ant2	2412	17.582	2403.2488	2420.8312	---	---
	Ant1	2437	17.862	2428.0490	2445.9111	---	---
	Ant2	2437	17.782	2428.0889	2445.8711	---	---
	Ant1	2462	17.902	2453.0090	2470.9111	---	---
	Ant2	2462	17.822	2453.0490	2470.8711	---	---
11N40SISO	Ant1	2422	36.044	2404.0979	2440.1419	---	---
	Ant2	2422	35.964	2404.0979	2440.0619	---	---
	Ant1	2437	36.124	2418.9381	2455.0619	---	---
	Ant2	2437	36.204	2418.8581	2455.0619	---	---
	Ant1	2452	36.044	2433.9381	2469.9820	---	---
	Ant2	2452	35.964	2433.9381	2469.9021	---	---

Test Graphs

11B_Ant1_2412



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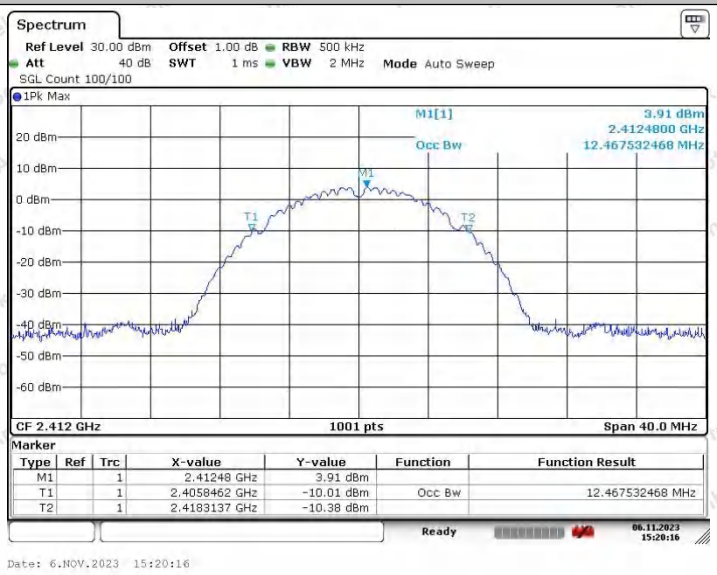

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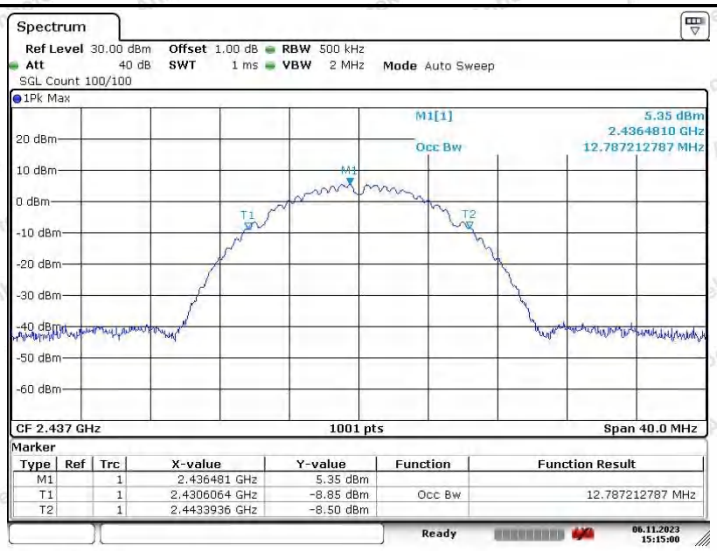

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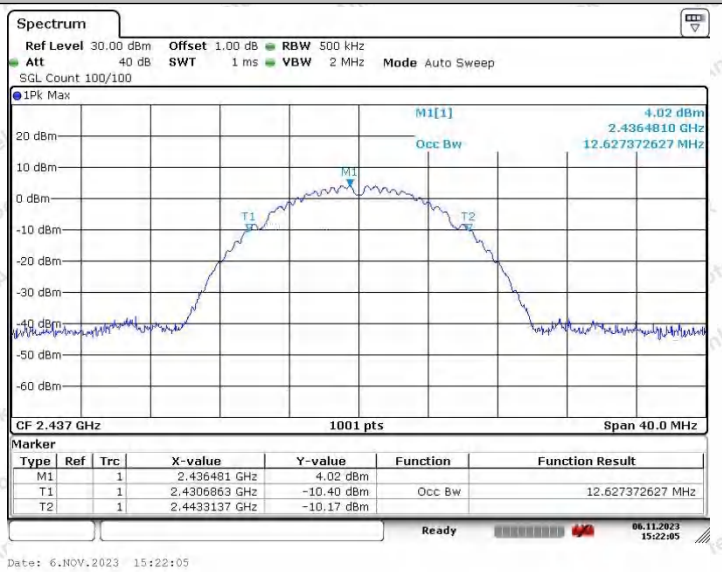

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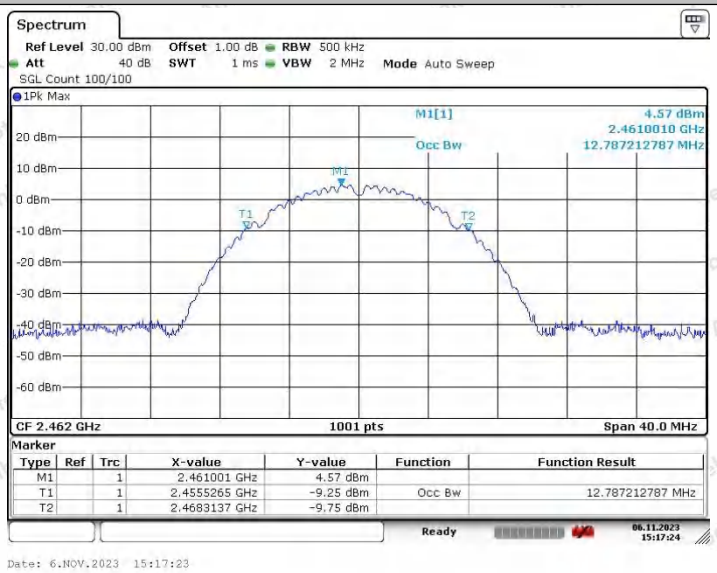

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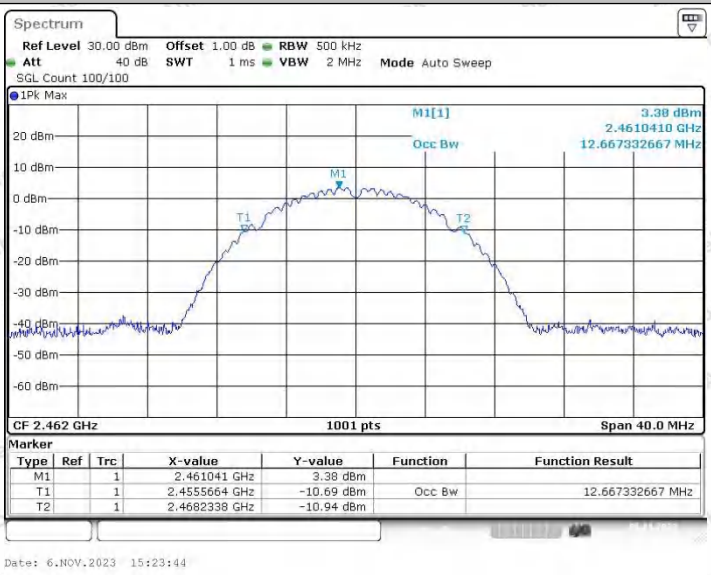

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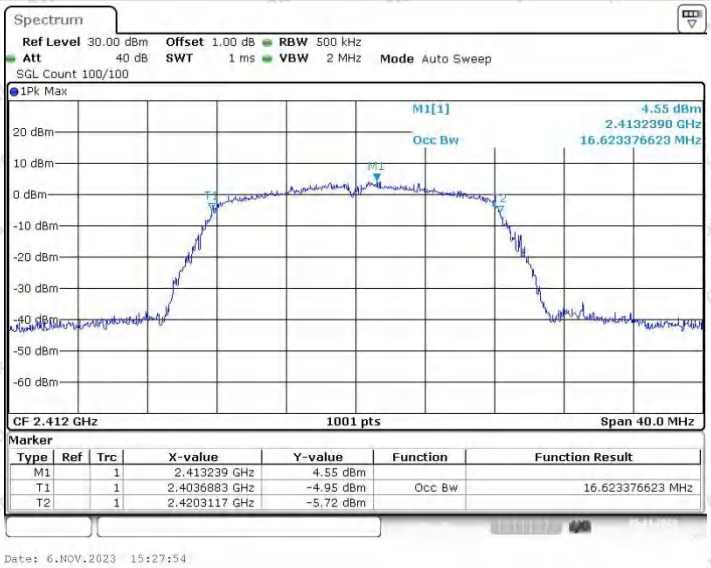

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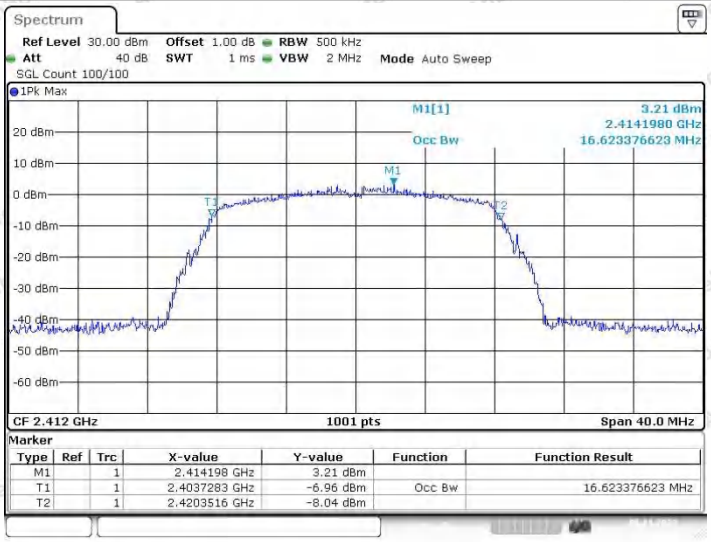

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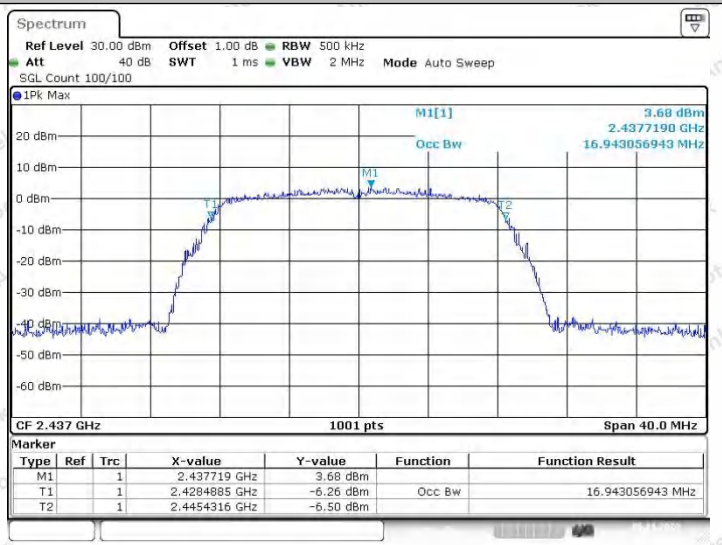

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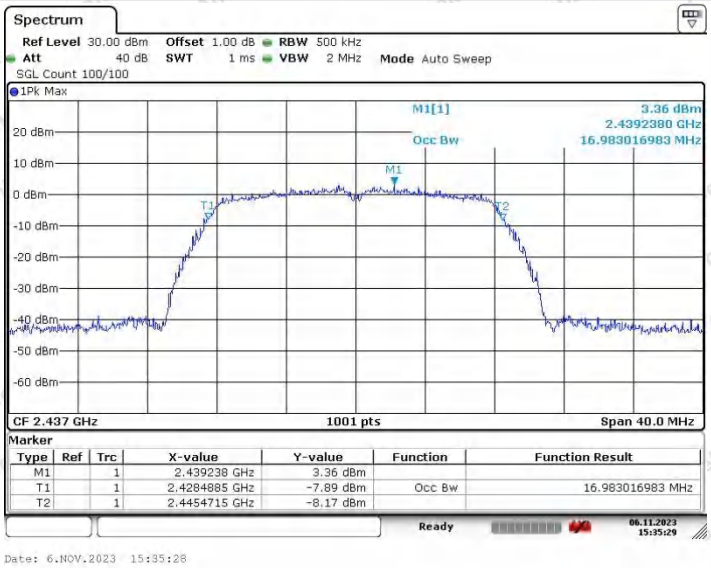

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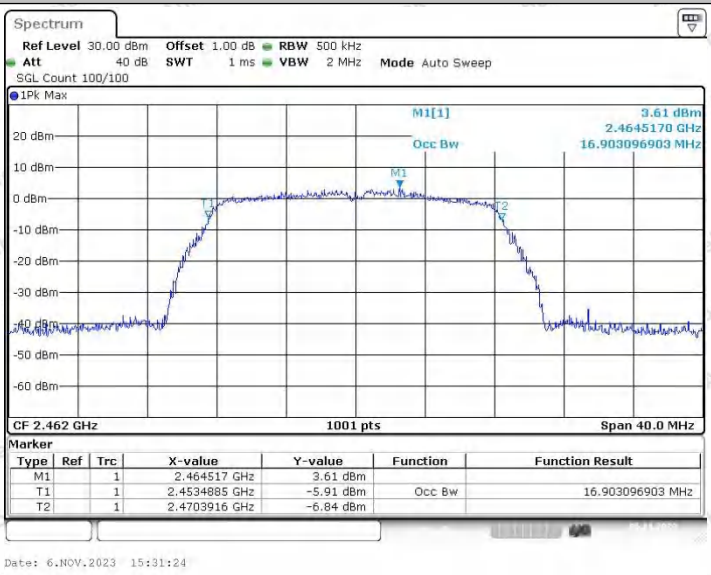

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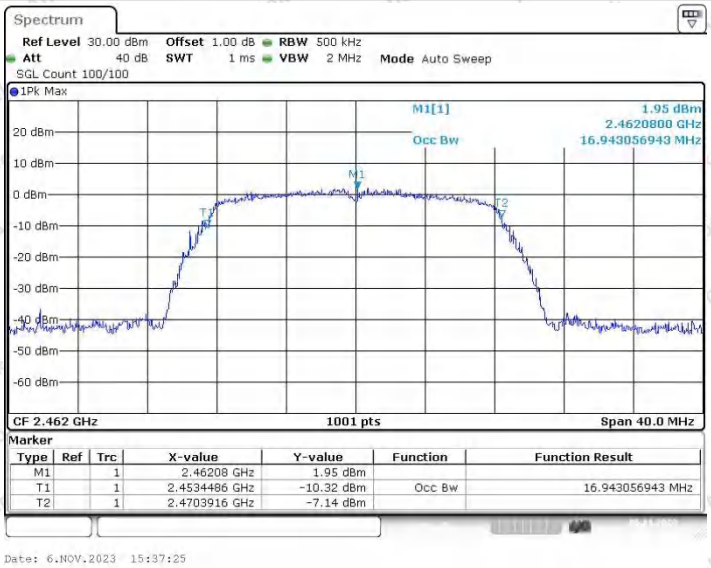

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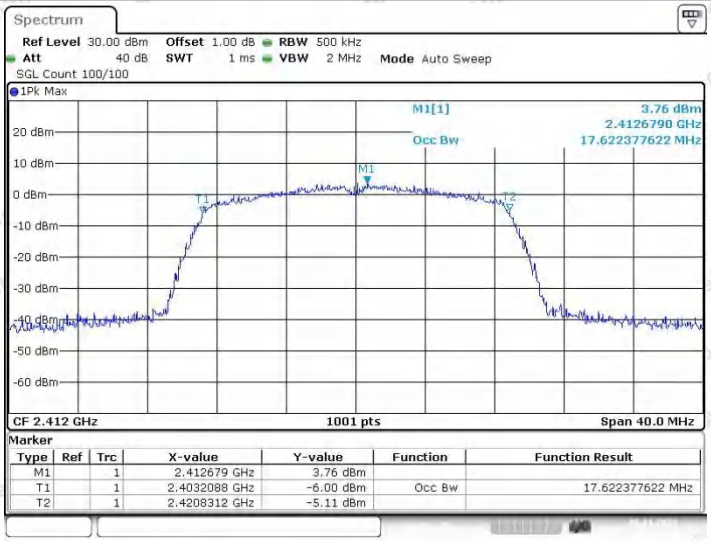

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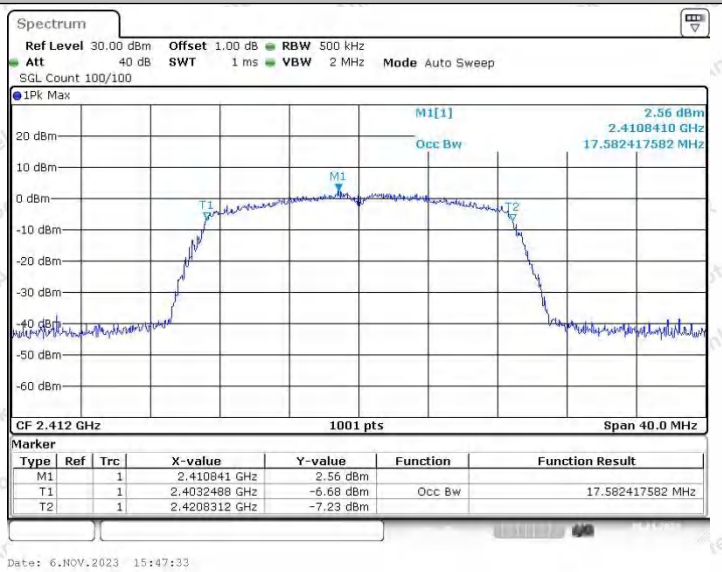

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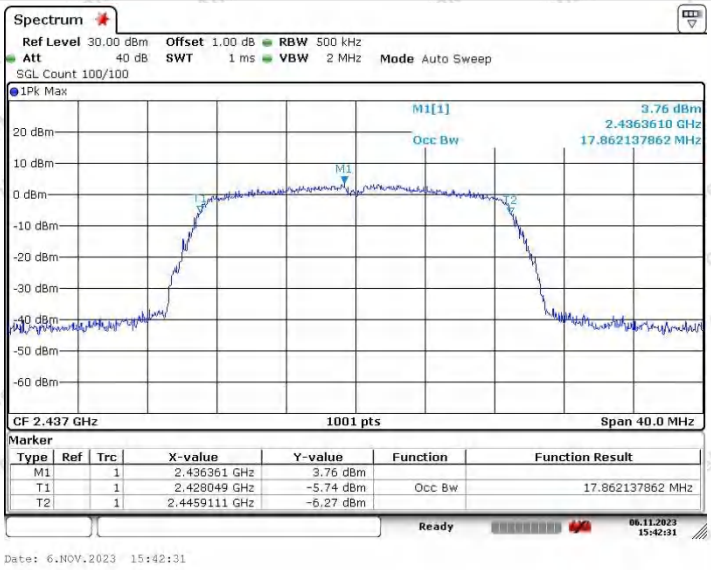

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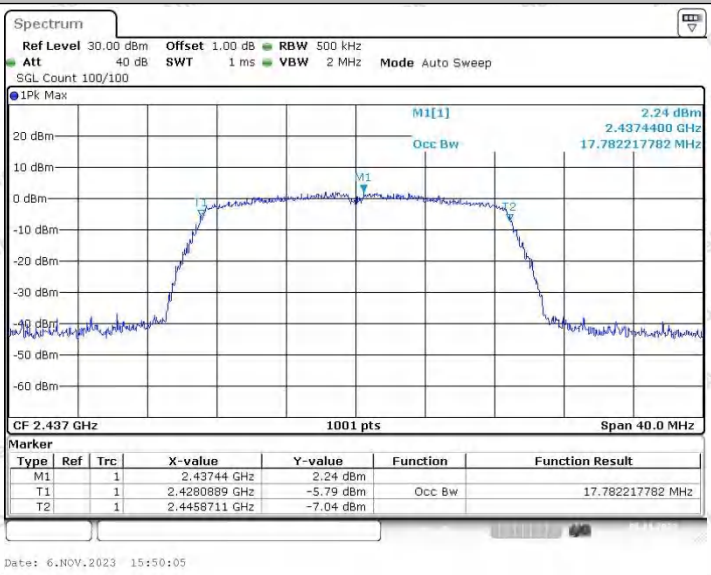

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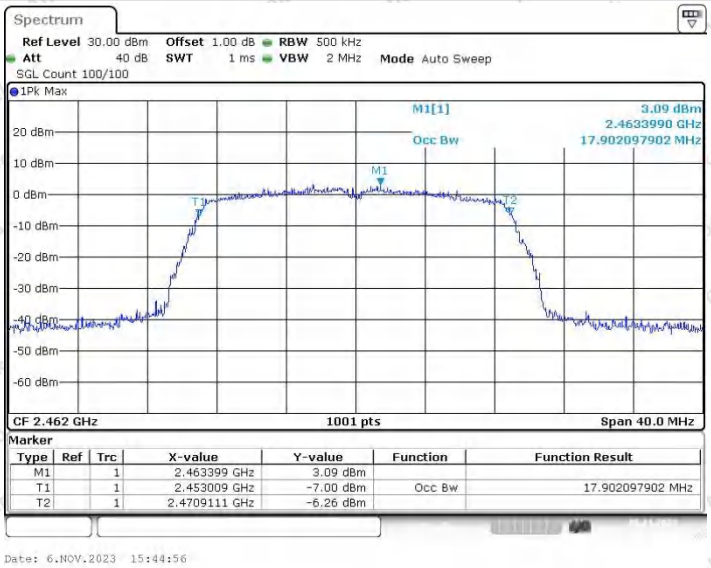

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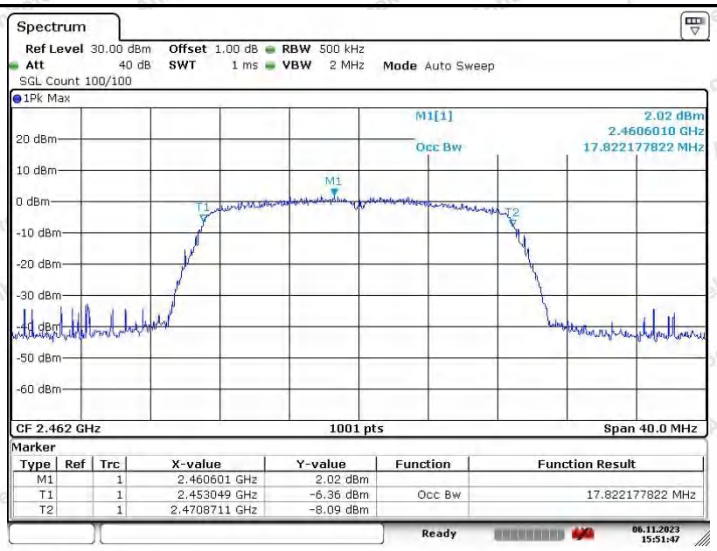

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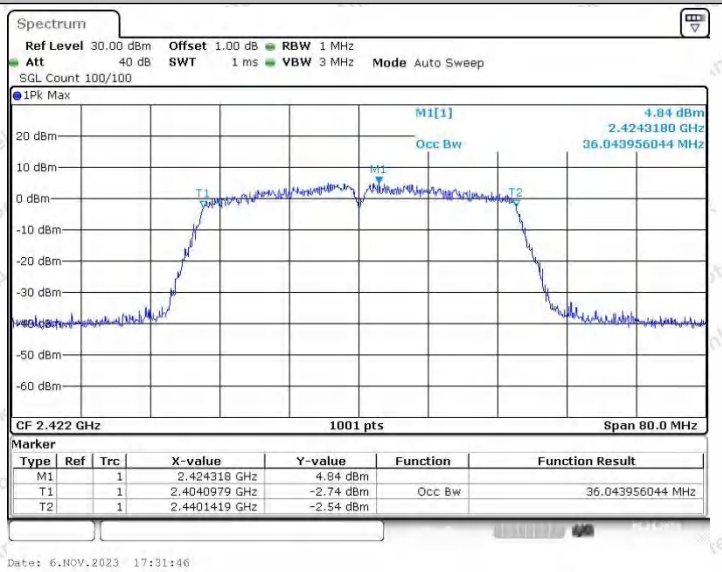
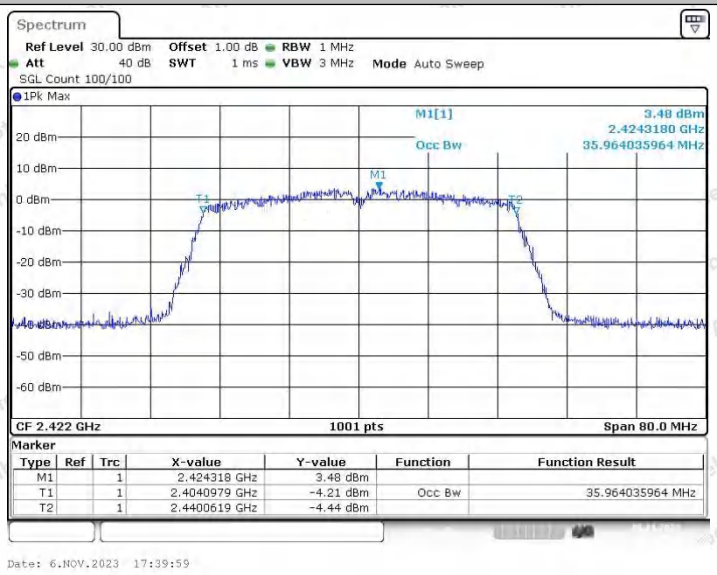
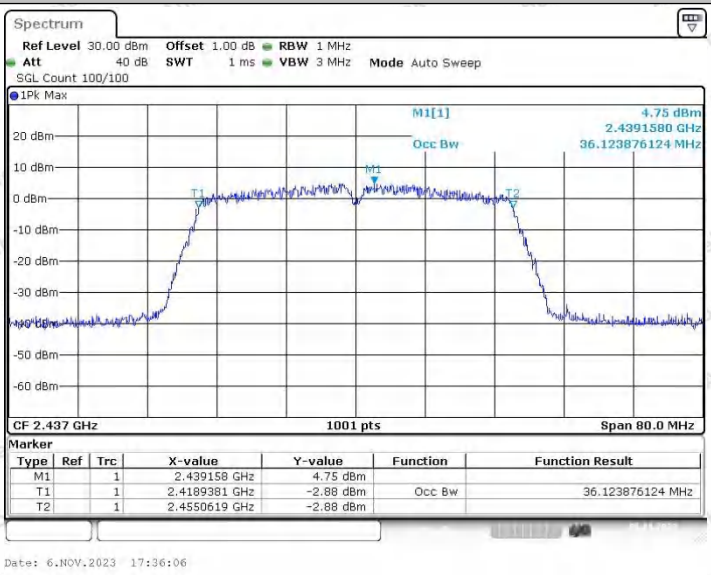


11N40SISO_Ant2_2422



11N40SISO_Ant1_2437



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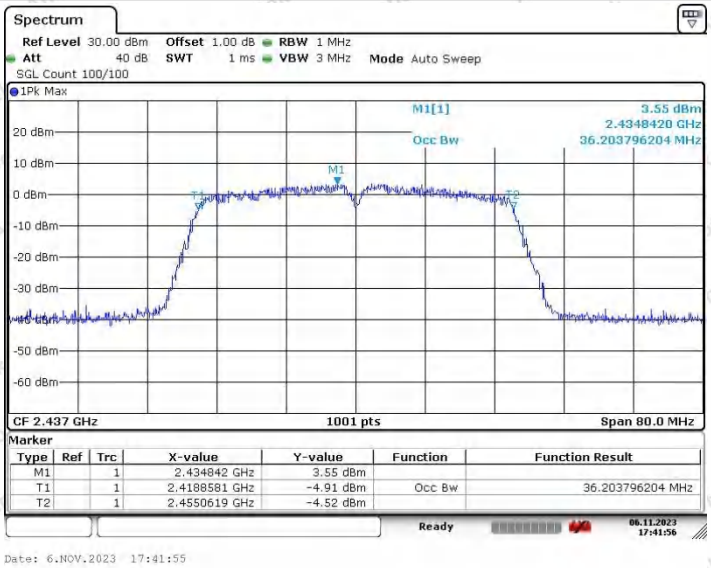
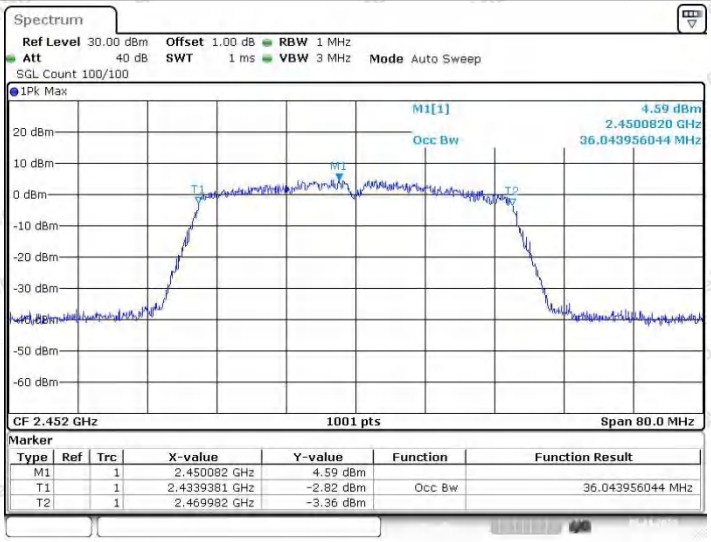
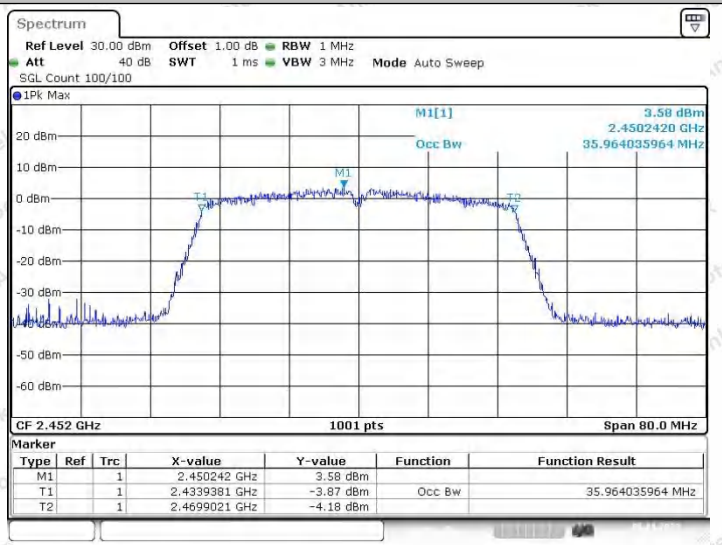


11N40SISO_Ant1_2452



11N40SISO_Ant2_2452



Appendix C: Maximum conducted output power

Test Result Average Output

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	14.12	≤30.00
	Ant2	2412	12.83	≤30.00
	Ant1	2437	14.37	≤30.00
	Ant2	2437	12.99	≤30.00
	Ant1	2462	13.41	≤30.00
	Ant2	2462	12.28	≤30.00
11G	Ant1	2412	15.66	≤30.00
	Ant2	2412	14.28	≤30.00
	Ant1	2437	15.90	≤30.00
	Ant2	2437	14.77	≤30.00
	Ant1	2462	15.14	≤30.00
	Ant2	2462	14.21	≤30.00
11N20SISO	Ant1	2412	15.51	≤30.00
	Ant2	2412	14.22	≤30.00
	Ant1	2437	15.96	≤30.00
	Ant2	2437	14.77	≤30.00
	Ant1	2462	15.11	≤30.00
	Ant2	2462	14.28	≤30.00
11N40SISO	Ant1	2422	15.39	≤30.00
	Ant2	2422	14.03	≤30.00
	Ant1	2437	15.32	≤30.00
	Ant2	2437	14.11	≤30.00
	Ant1	2452	15.07	≤30.00
	Ant2	2452	13.93	≤30.00

MIMO:

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11N20SISO	Ant1+ANT2	2412	17.92	≤30.00
	Ant1+ANT2	2437	**18.42**	≤30.00
	Ant1+ANT2	2462	17.73	≤30.00
11N40SISO	Ant1+ANT2	2422	17.77	≤30.00
	Ant1+ANT2	2437	17.77	≤30.00
	Ant1+ANT2	2452	17.55	≤30.00

Appendix D: Maximum power spectral density

Test Result

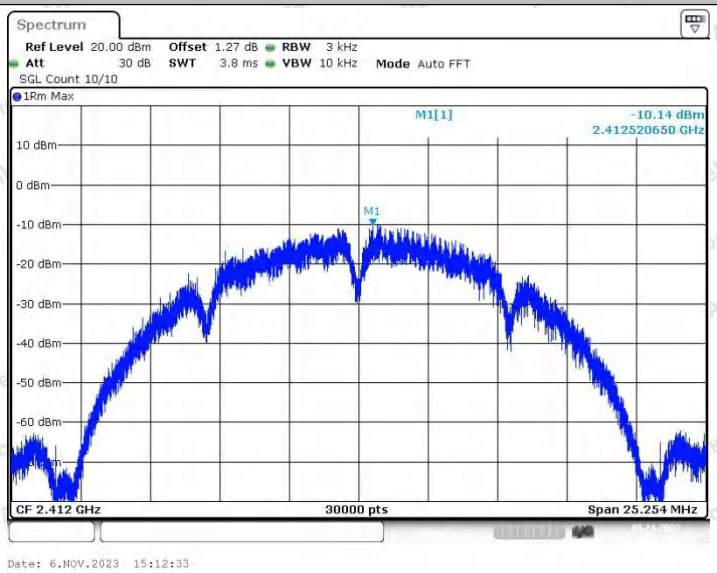
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.14	≤8.00	PASS
	Ant2	2412	-10.68	≤8.00	PASS
	Ant1	2437	-9.31	≤8.00	PASS
	Ant2	2437	-11.74	≤8.00	PASS
	Ant1	2462	-10.72	≤8.00	PASS
	Ant2	2462	-11.80	≤8.00	PASS
11G	Ant1	2412	-14.10	≤8.00	PASS
	Ant2	2412	-14.86	≤8.00	PASS
	Ant1	2437	-13.59	≤8.00	PASS
	Ant2	2437	-14.77	≤8.00	PASS
	Ant1	2462	-13.59	≤8.00	PASS
	Ant2	2462	-15.71	≤8.00	PASS
11N20SISO	Ant1	2412	-12.80	≤8.00	PASS
	Ant2	2412	-15.08	≤8.00	PASS
	Ant1	2437	-13.25	≤8.00	PASS
	Ant2	2437	-14.35	≤8.00	PASS
	Ant1	2462	-15.17	≤8.00	PASS
	Ant2	2462	-15.10	≤8.00	PASS
11N40SISO	Ant1	2422	-15.01	≤8.00	PASS
	Ant2	2422	-16.61	≤8.00	PASS
	Ant1	2437	-14.72	≤8.00	PASS
	Ant2	2437	-17.32	≤8.00	PASS
	Ant1	2452	-15.64	≤8.00	PASS
	Ant2	2452	-16.24	≤8.00	PASS

MIMO:

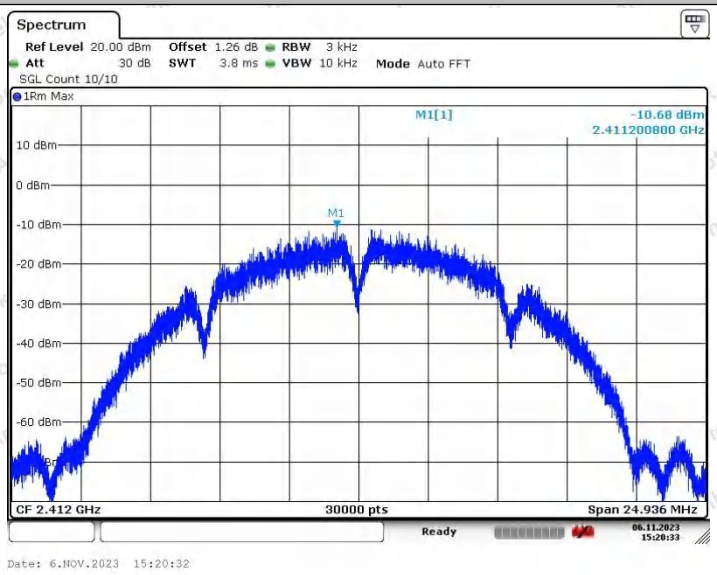
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11N20SISO	Ant1+ANT2	2412	-10.78	≤8.00	PASS
	Ant1+ANT2	2437	-10.75	≤8.00	PASS
	Ant1+ANT2	2462	-12.12	≤8.00	PASS
11N40SISO	Ant1+ANT2	2422	-12.73	≤8.00	PASS
	Ant1+ANT2	2437	-12.82	≤8.00	PASS
	Ant1+ANT2	2452	-12.92	≤8.00	PASS

Test Graphs

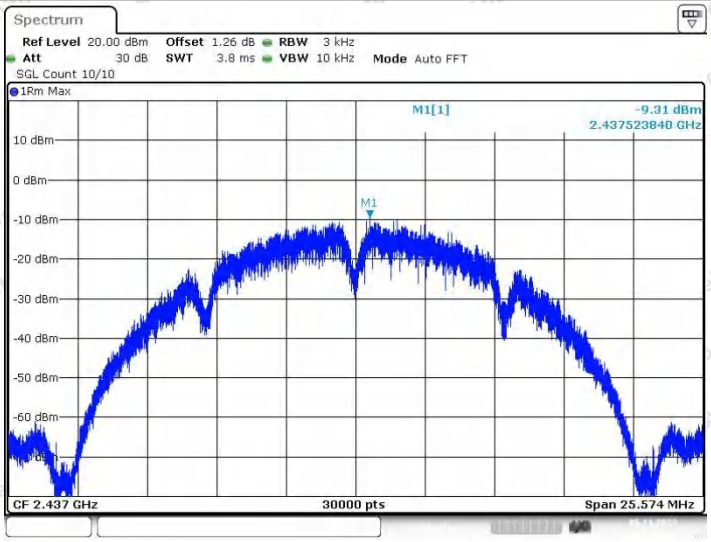
11B_Ant1_2412



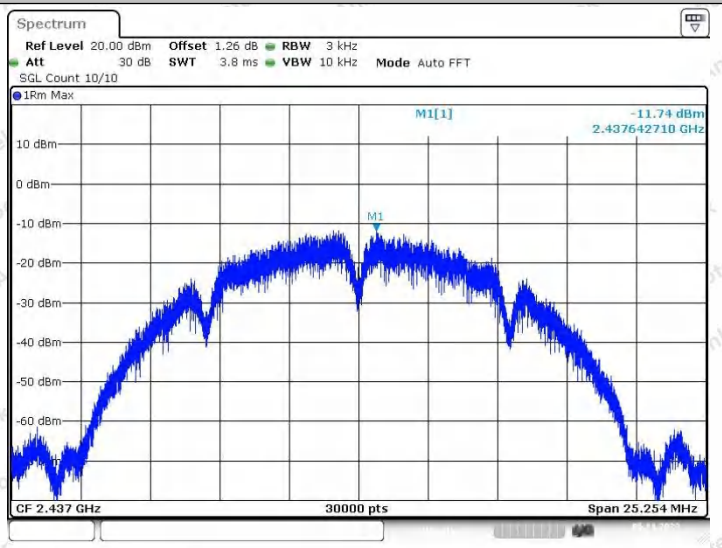
11B_Ant2_2412



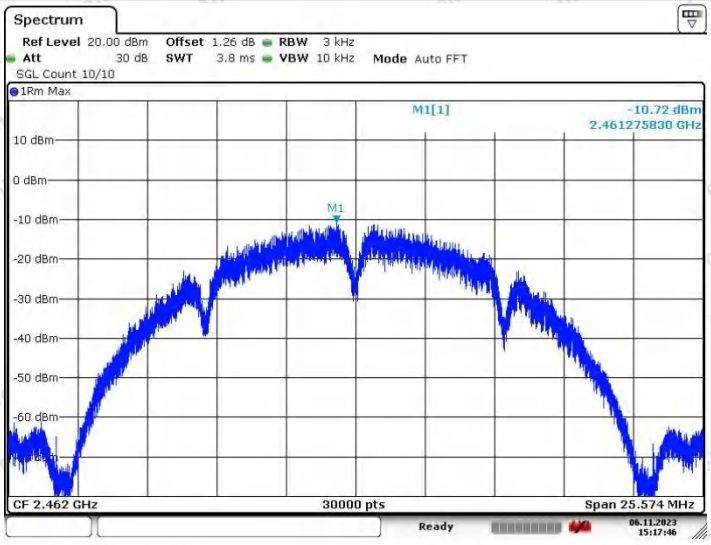
11B_Ant1_2437



11B_Ant2_2437



11B_Ant1_2462



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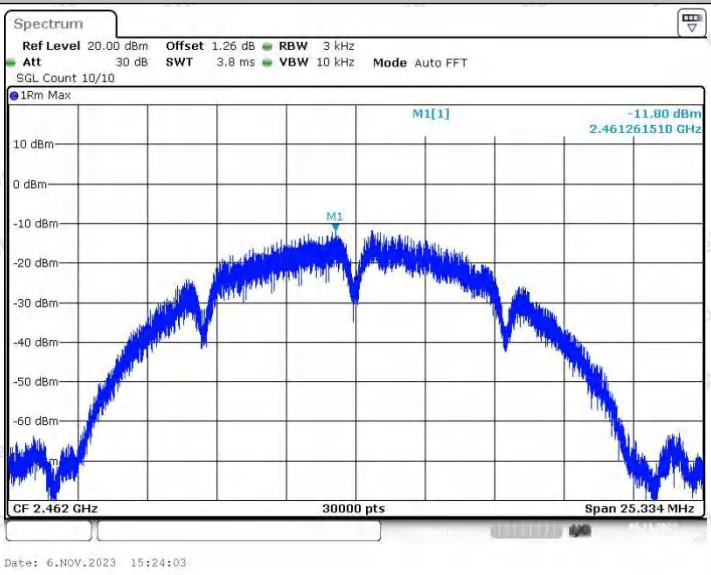

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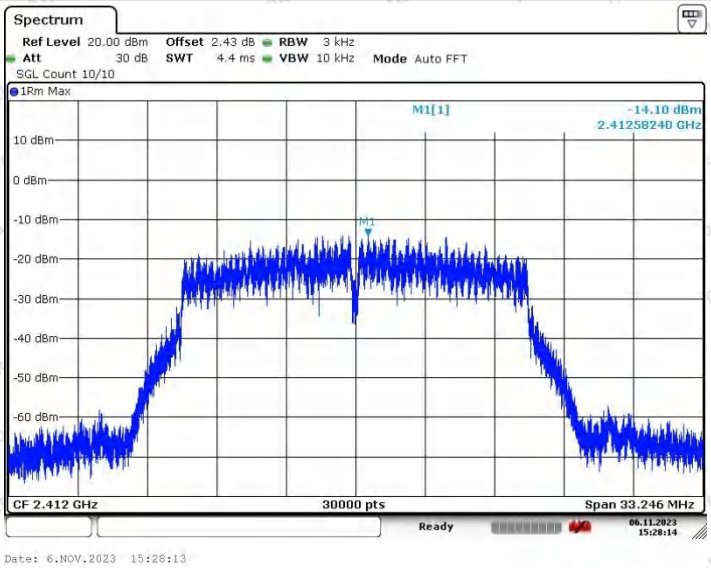

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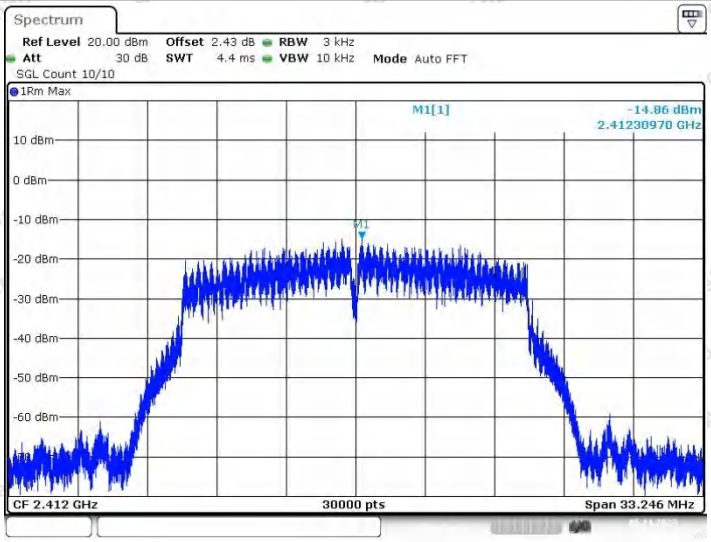

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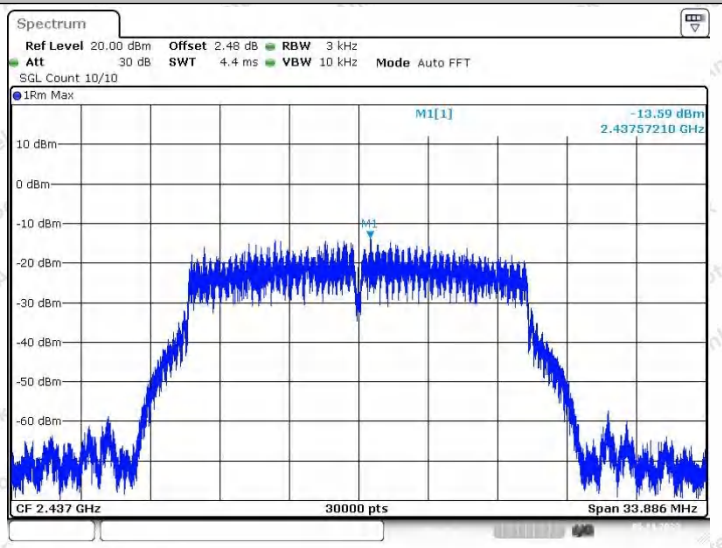

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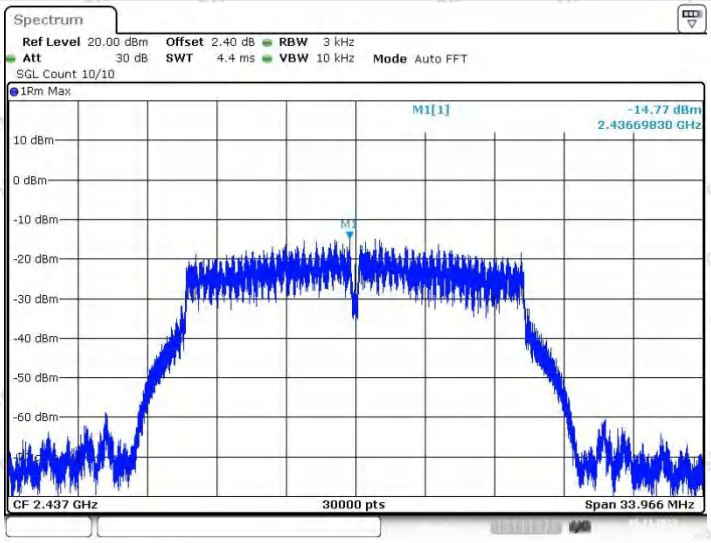

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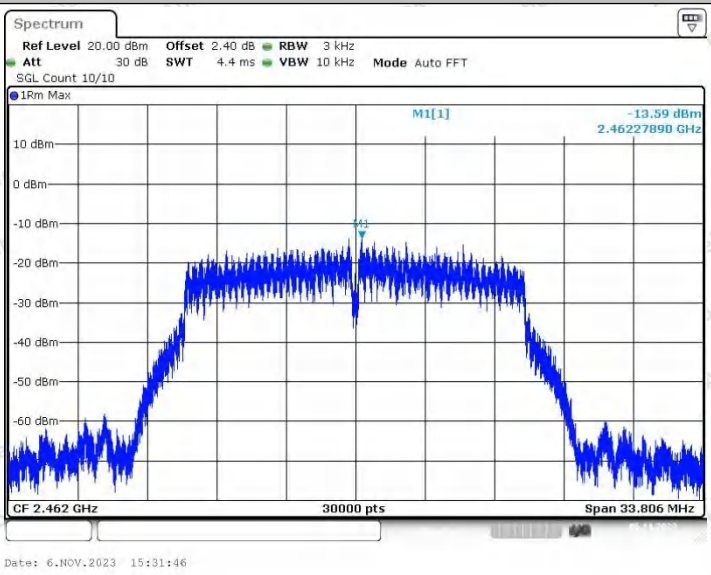

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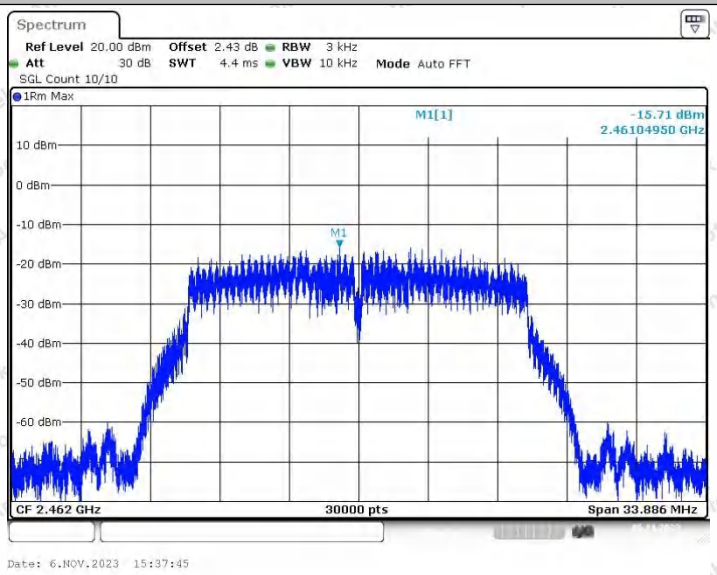

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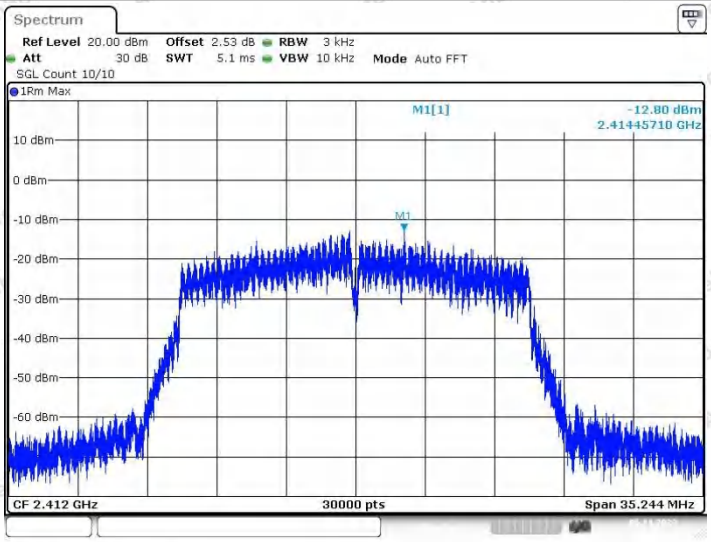

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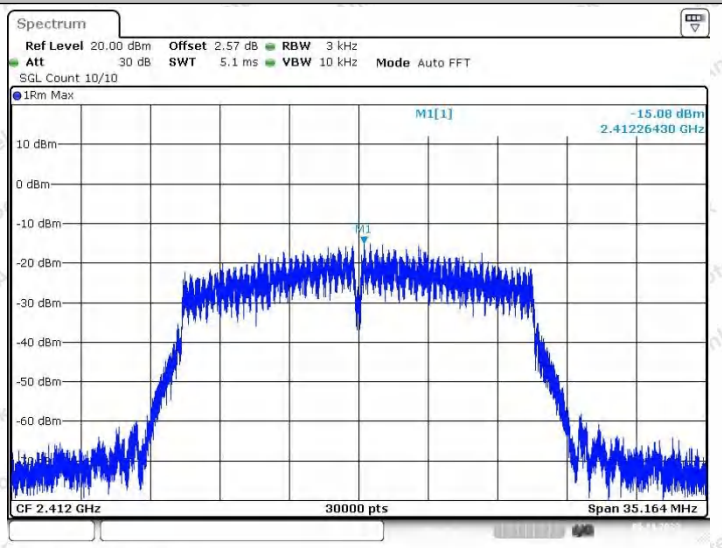

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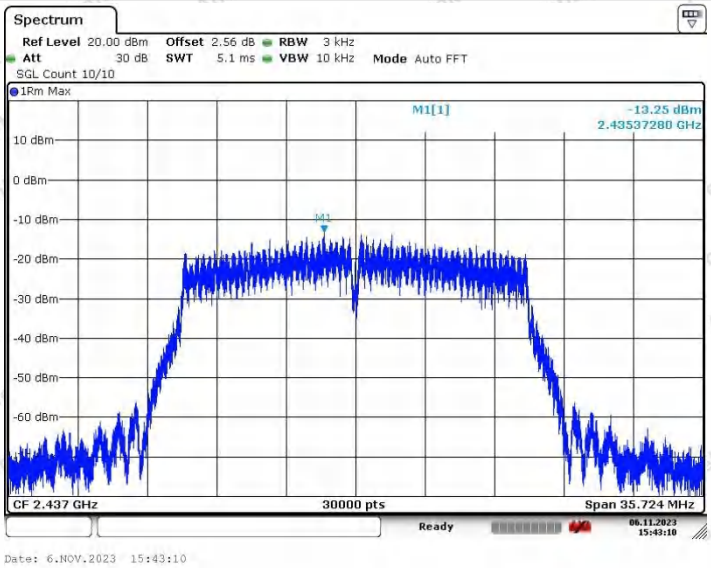

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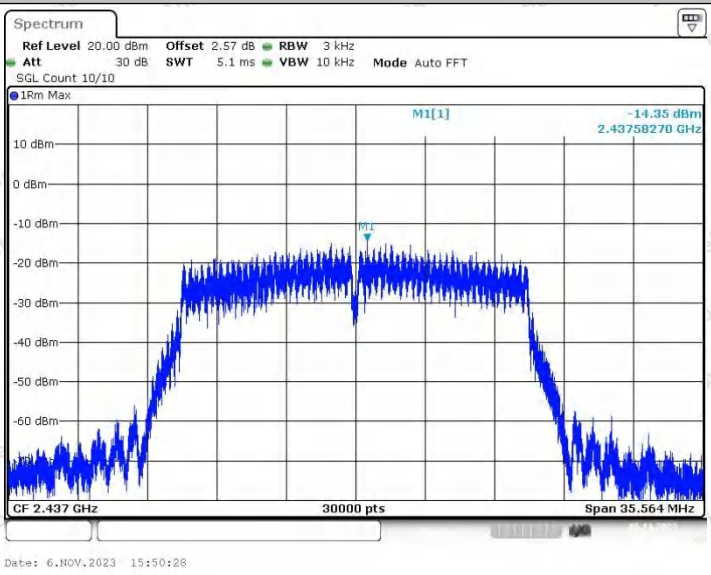

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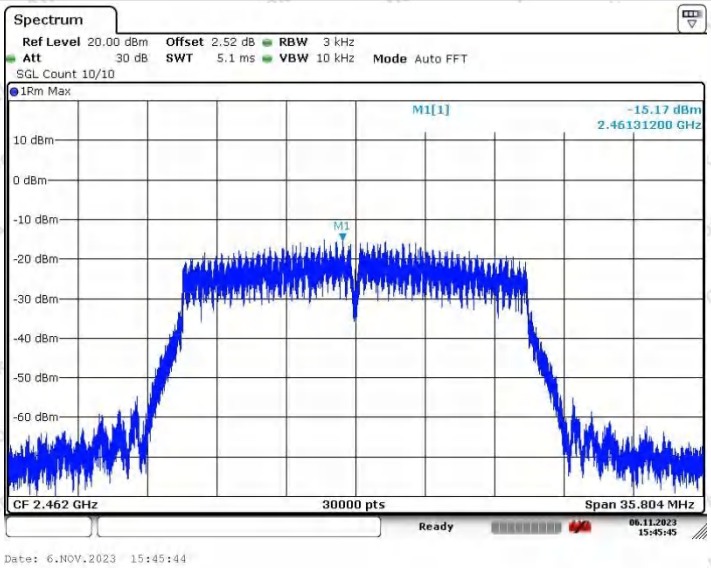

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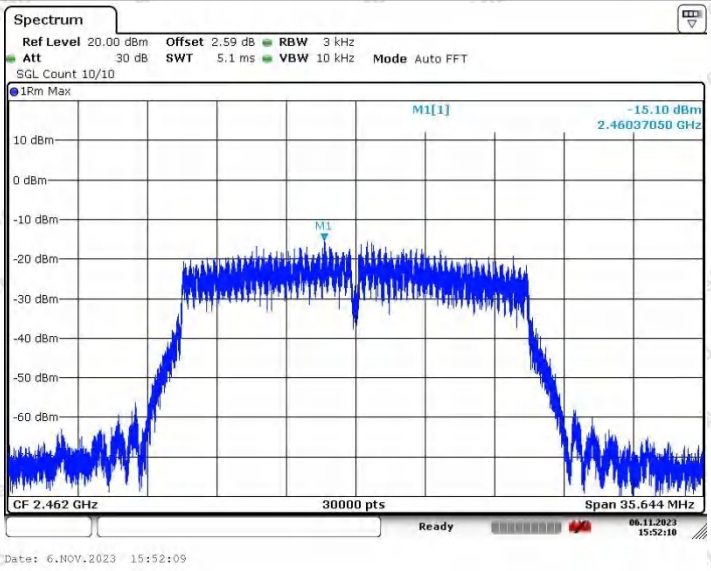

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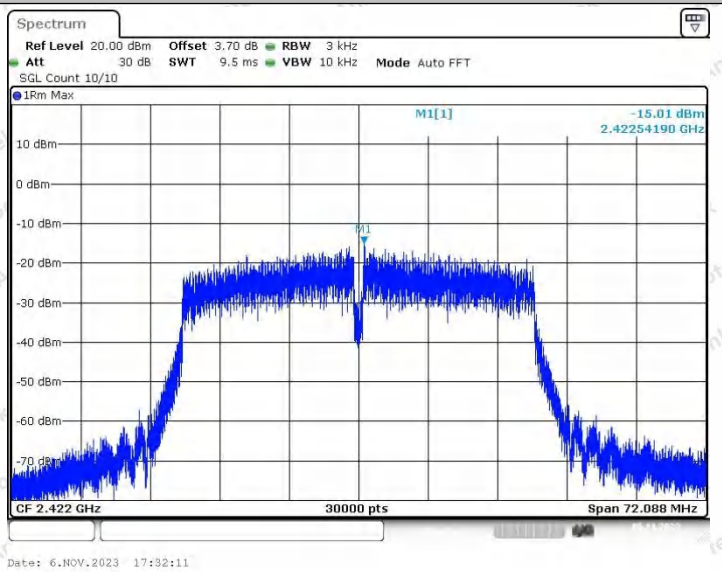

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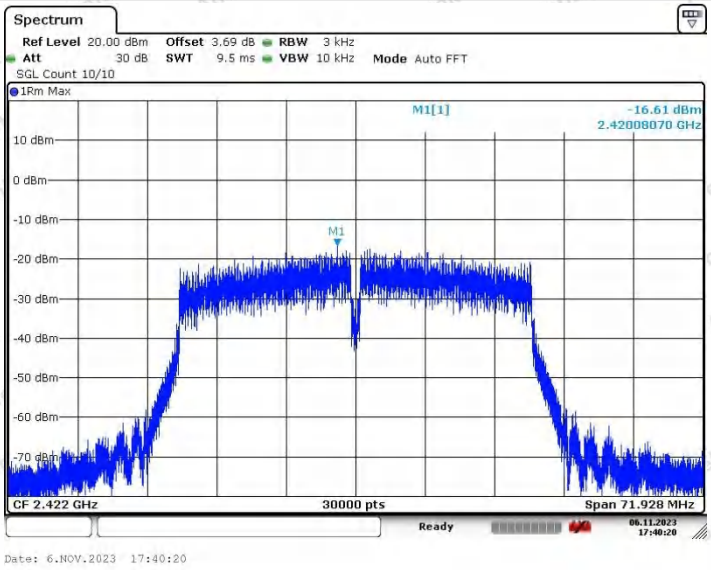

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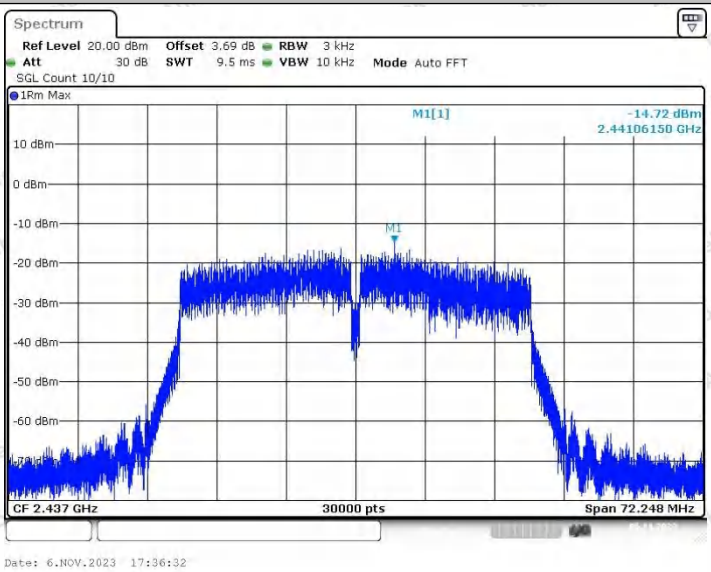
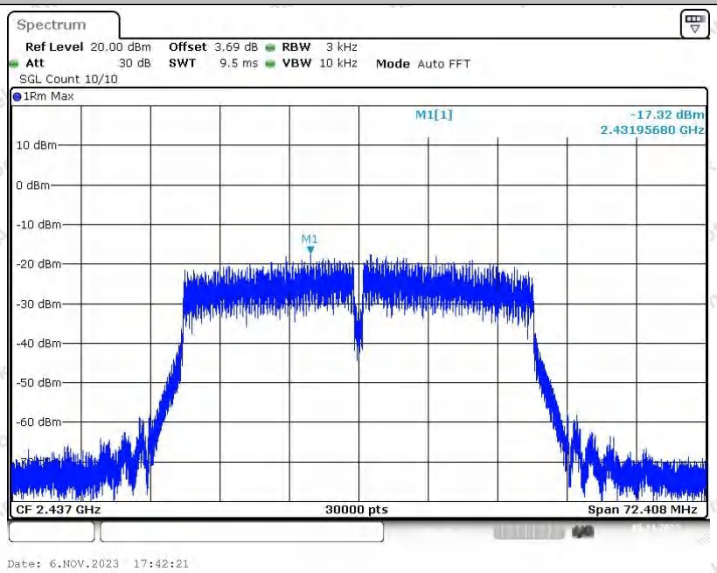


11N40SISO_Ant2_2437



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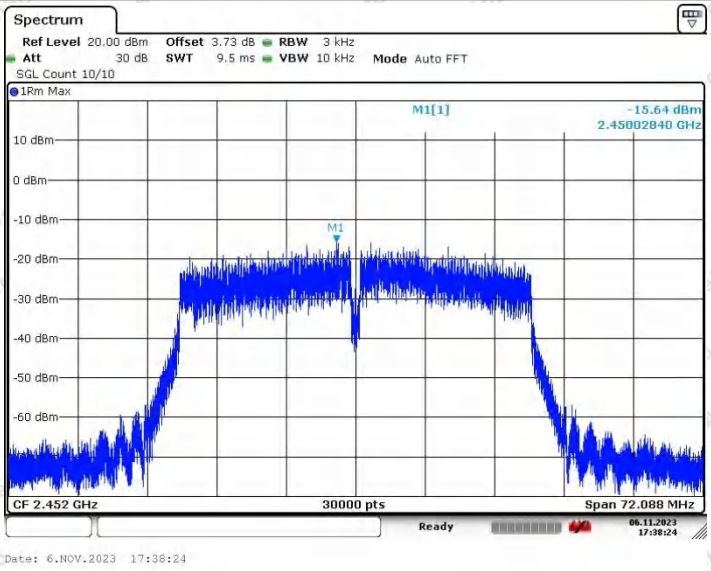
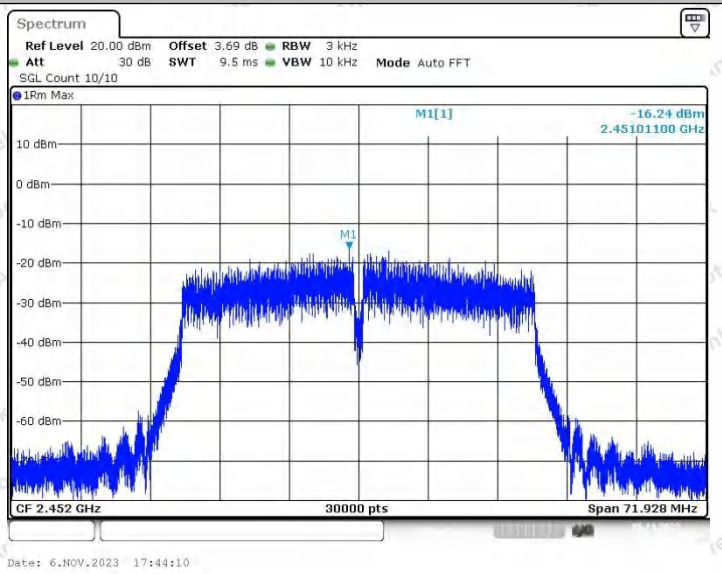


11N40SISO_Ant2_2452



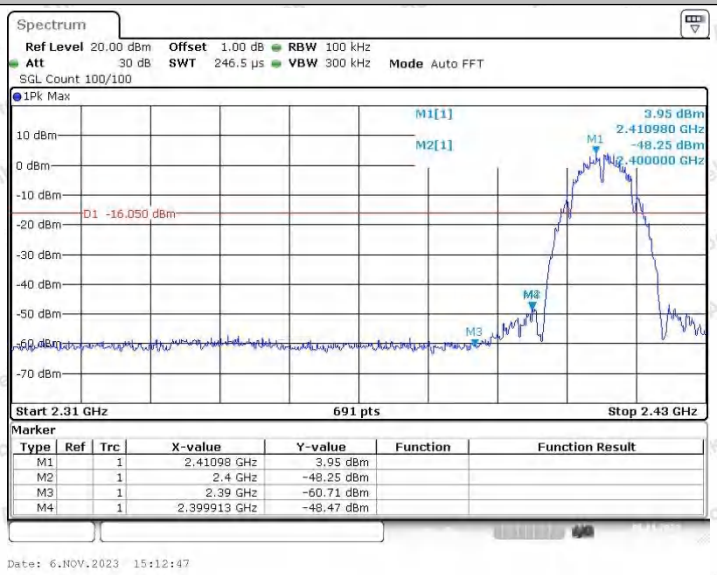
Appendix E: Band edge measurements

Test Result

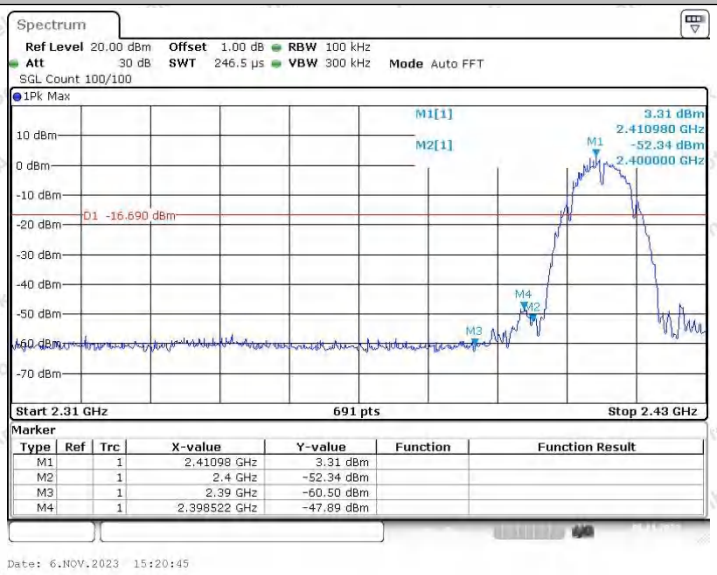
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.95	-48.47	≤-16.05	PASS
	Ant2	Low	2412	3.31	-47.89	≤-16.69	PASS
	Ant1	High	2462	2.60	-56.68	≤-17.4	PASS
	Ant2	High	2462	2.15	-57.79	≤-17.85	PASS
11G	Ant1	Low	2412	-3.16	-46.67	≤-23.16	PASS
	Ant2	Low	2412	-1.63	-50.03	≤-21.63	PASS
	Ant1	High	2462	-4.19	-53.08	≤-24.19	PASS
	Ant2	High	2462	-5.59	-57.15	≤-25.59	PASS
11N20SISO	Ant1	Low	2412	-2.76	-45.94	≤-22.76	PASS
	Ant2	Low	2412	-1.60	-51.45	≤-21.6	PASS
	Ant1	High	2462	-1.22	-55.41	≤-21.22	PASS
	Ant2	High	2462	-5.05	-55.65	≤-25.05	PASS
11N40SISO	Ant1	Low	2422	-5.25	-46.29	≤-25.25	PASS
	Ant2	Low	2422	-6.49	-46.27	≤-26.49	PASS
	Ant1	High	2452	-3.78	-51.87	≤-23.78	PASS
	Ant2	High	2452	-4.70	-50.96	≤-24.7	PASS

Test Graphs

11B_Ant1_Low_2412

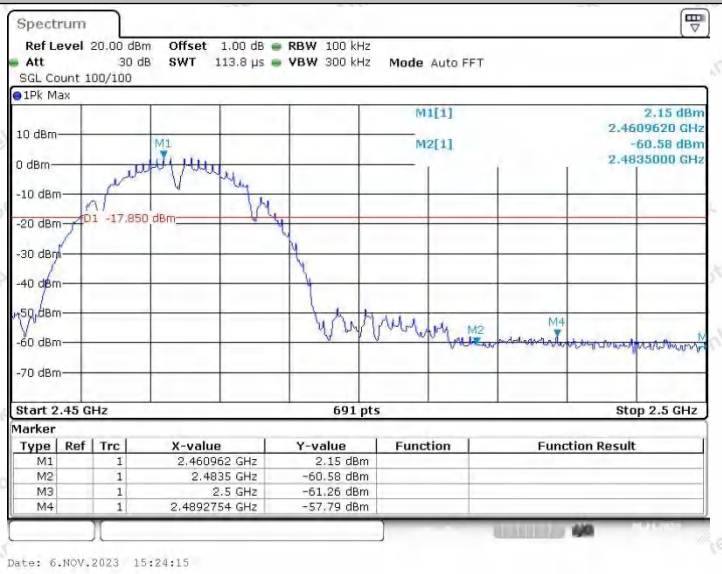


11B_Ant2_Low_2412

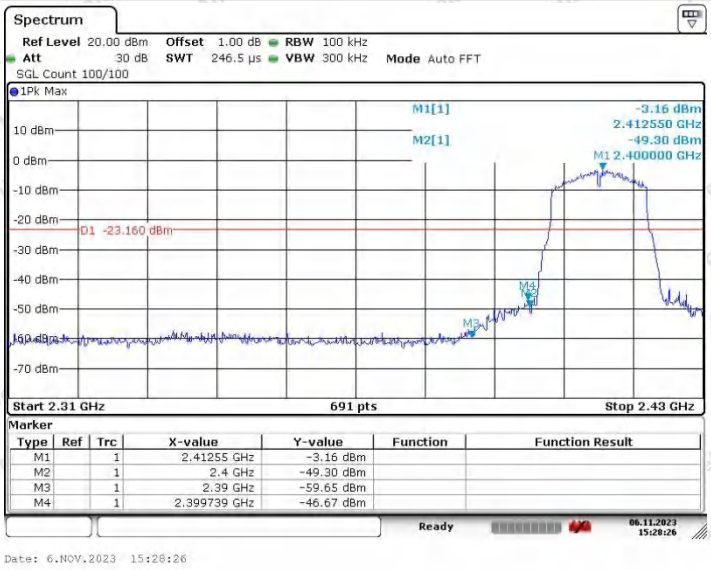


11B_Ant1_High_2462

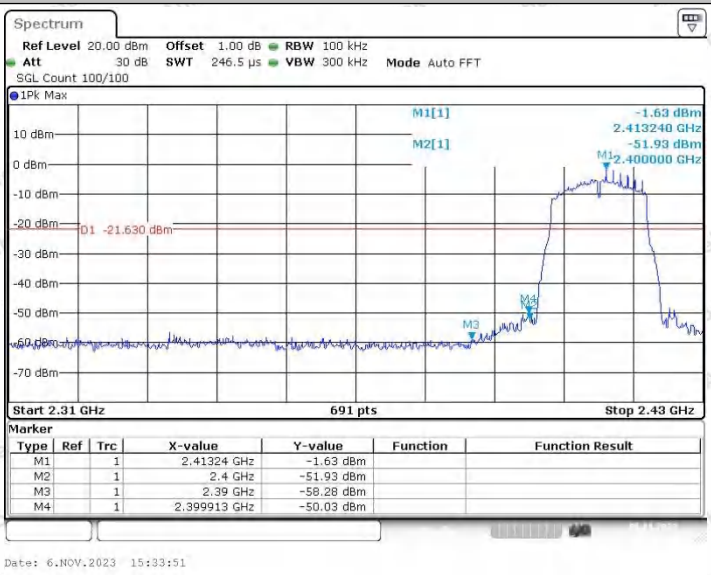
11B_Ant2_High_2462



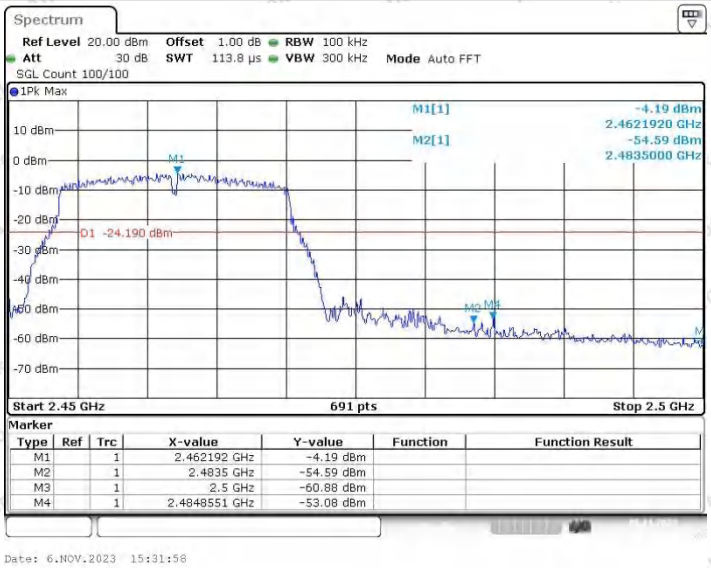
11G_Ant1_Low_2412



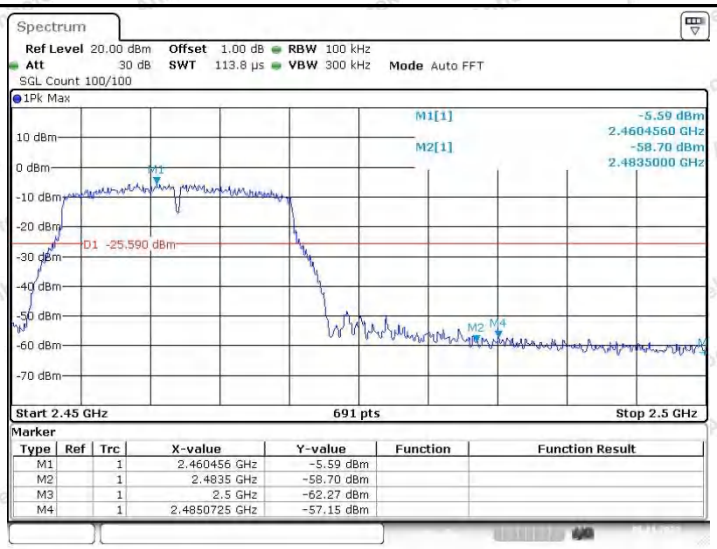
11G_Ant2_Low_2412



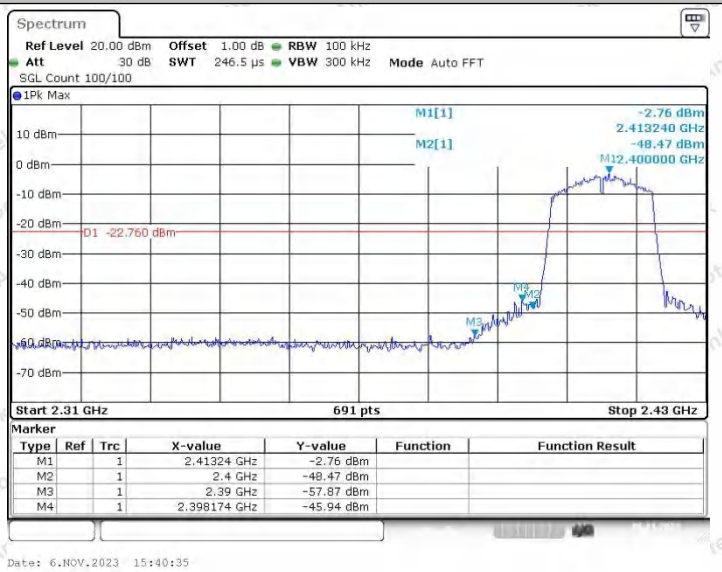
11G_Ant1_High_2462



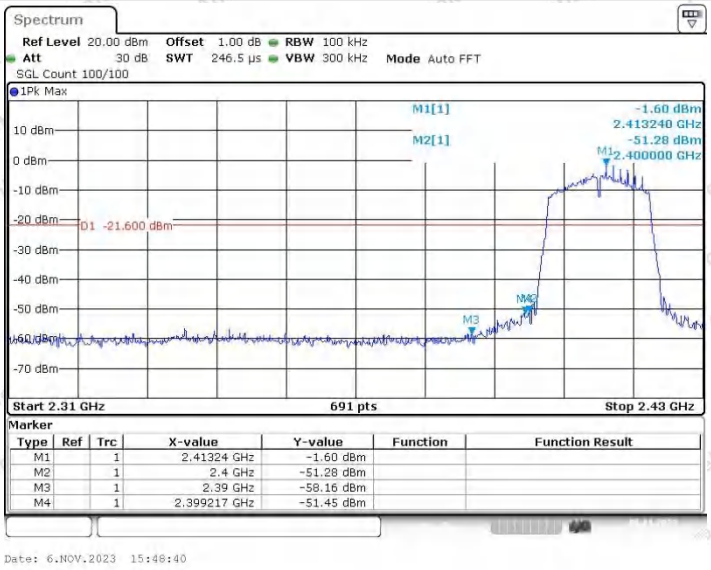
11G_Ant2_High_2462



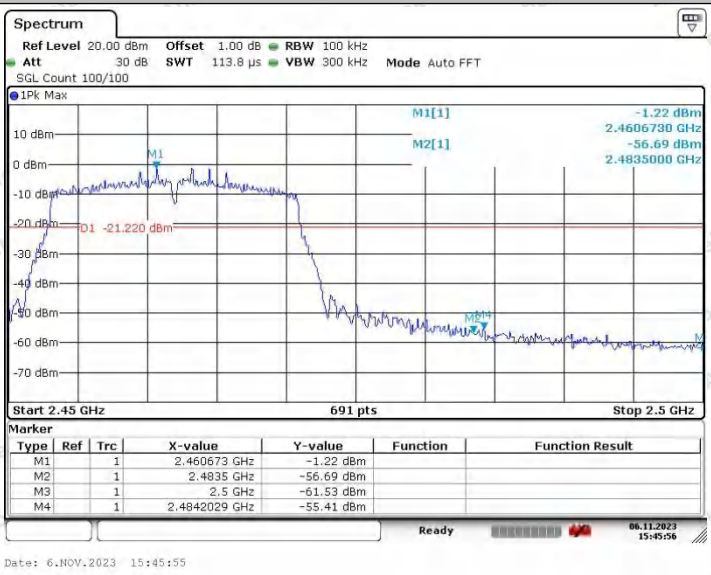
11N20SISO_Ant1_Low_2412



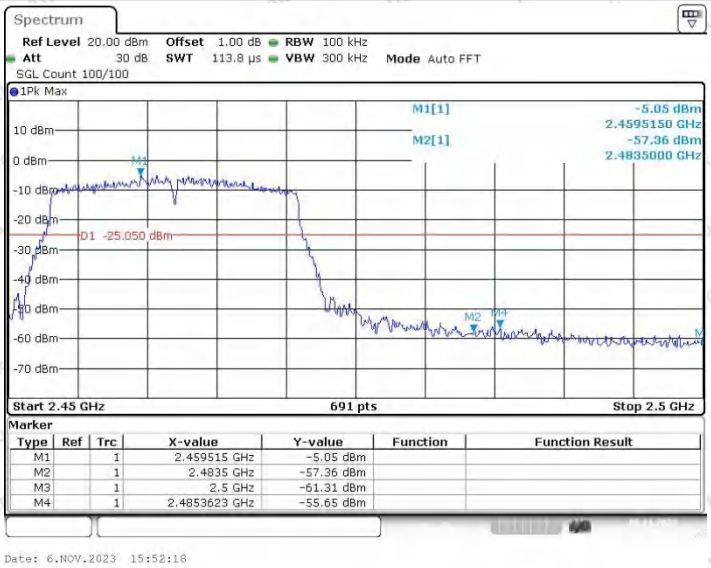
11N20SISO_Ant2_Low_2412



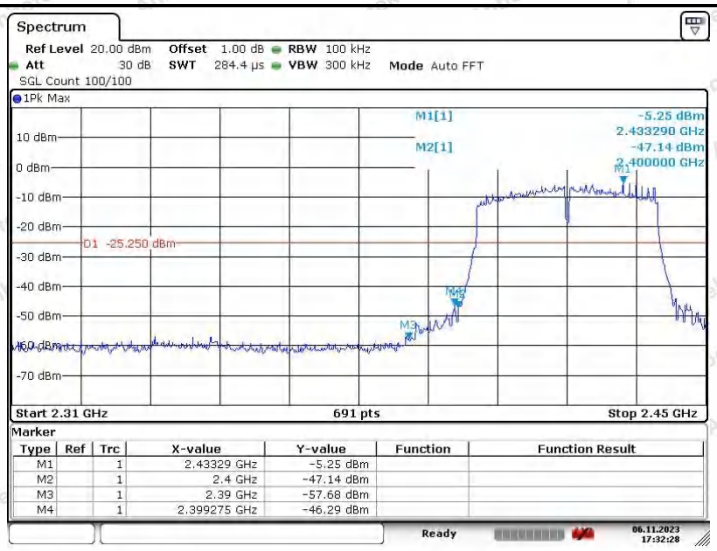
11N20SISO_Ant1_High_2462



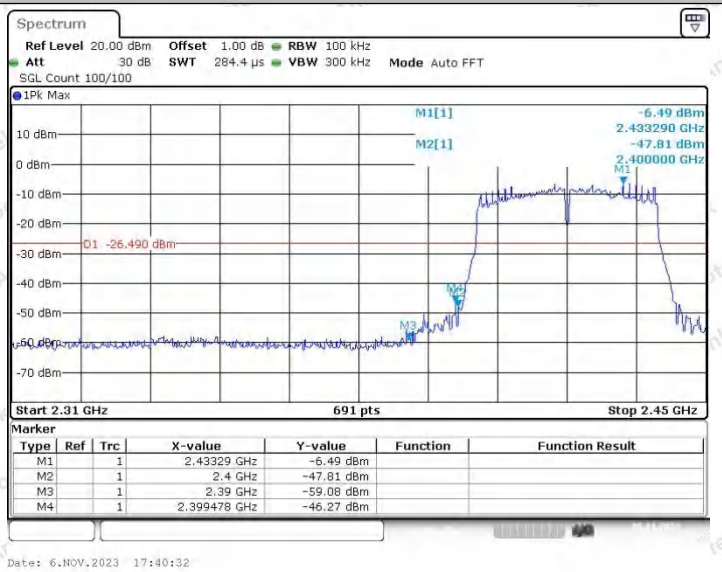
11N20SISO_Ant2_High_2462



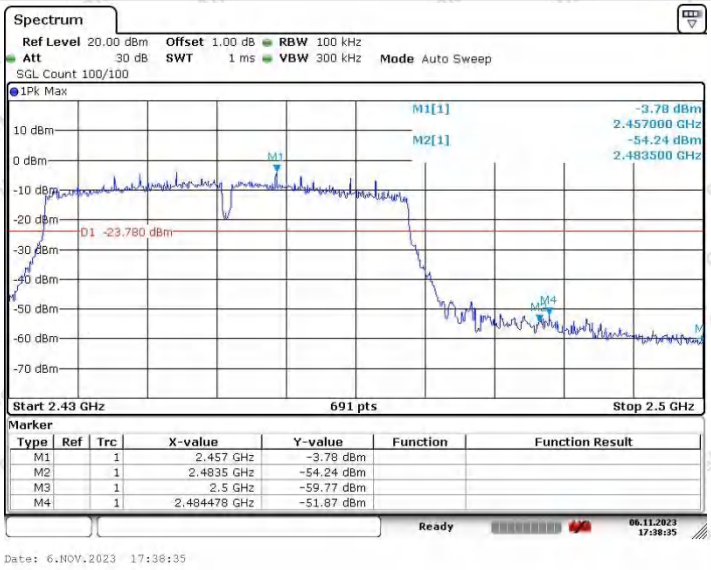
11N40SISO_Ant1_Low_2422



11N40SISO_Ant2_Low_2422



11N40SISO_Ant1_High_2452



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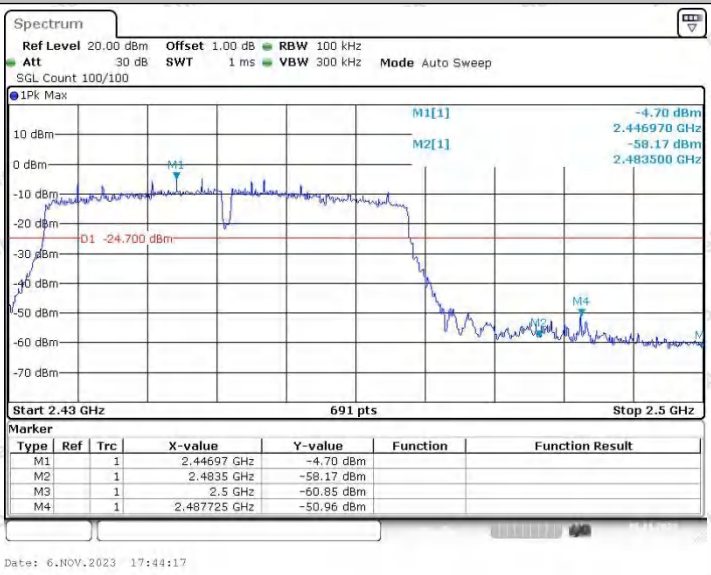


Appendix F: Conducted Spurious Emission

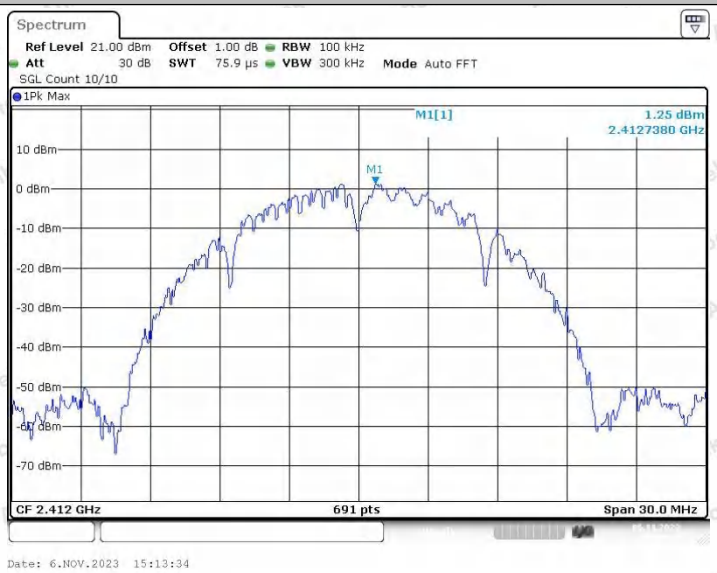
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.25	1.25	---	PASS
			30~1000	1.25	-68.46	≤-18.75	PASS
			1000~26500	1.25	-54.61	≤-18.75	PASS
	Ant2	2412	Reference	0.96	0.96	---	PASS
			30~1000	0.96	-69.08	≤-19.04	PASS
			1000~26500	0.96	-53.90	≤-19.04	PASS
	Ant1	2437	Reference	2.40	2.40	---	PASS
			30~1000	2.40	-68.63	≤-17.6	PASS
			1000~26500	2.40	-45.01	≤-17.6	PASS
	Ant2	2437	Reference	1.61	1.61	---	PASS
			30~1000	1.61	-68.33	≤-18.39	PASS
			1000~26500	1.61	-48.74	≤-18.39	PASS
	Ant1	2462	Reference	1.34	1.34	---	PASS
			30~1000	1.34	-68.78	≤-18.66	PASS
			1000~26500	1.34	-60.31	≤-18.66	PASS
	Ant2	2462	Reference	0.93	0.93	---	PASS
			30~1000	0.93	-68.37	≤-19.07	PASS
			1000~26500	0.93	-59.78	≤-19.07	PASS
11G	Ant1	2412	Reference	-3.87	-3.87	---	PASS
			30~1000	-3.87	-68.49	≤-23.87	PASS
			1000~26500	-3.87	-60.22	≤-23.87	PASS
	Ant2	2412	Reference	-5.51	-5.51	---	PASS
			30~1000	-5.51	-68.82	≤-25.51	PASS
			1000~26500	-5.51	-60.03	≤-25.51	PASS
	Ant1	2437	Reference	-4.27	-4.27	---	PASS
			30~1000	-4.27	-68.88	≤-24.27	PASS
			1000~26500	-4.27	-60.21	≤-24.27	PASS
	Ant2	2437	Reference	-5.30	-5.30	---	PASS
			30~1000	-5.30	-68.33	≤-25.3	PASS
			1000~26500	-5.30	-59.94	≤-25.3	PASS
	Ant1	2462	Reference	-4.77	-4.77	---	PASS
			30~1000	-4.77	-68.89	≤-24.77	PASS
			1000~26500	-4.77	-60.5	≤-24.77	PASS
	Ant2	2462	Reference	-5.28	-5.28	---	PASS
			30~1000	-5.28	-68.69	≤-25.28	PASS
			1000~26500	-5.28	-59.63	≤-25.28	PASS
11N20SISO	Ant1	2412	Reference	-4.52	-4.52	---	PASS

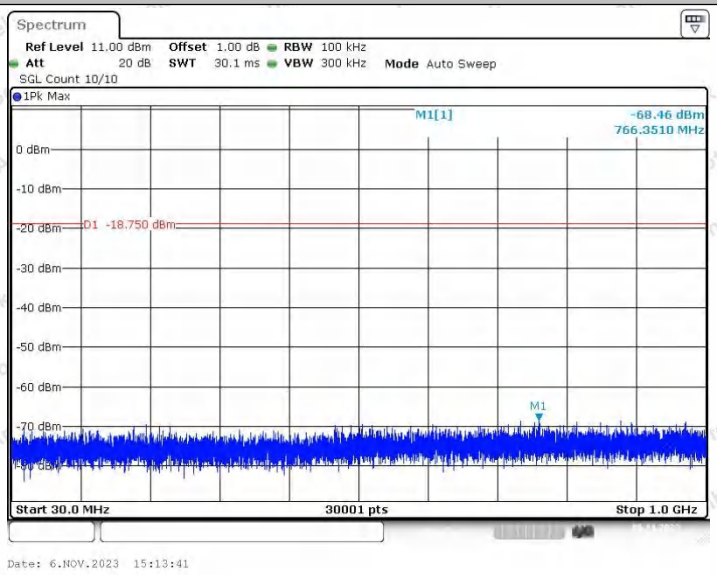
			30~1000	-4.52	-68.79	≤-24.52	PASS
			1000~26500	-4.52	-59.87	≤-24.52	PASS
	Ant2	2412	Reference	-5.42	-5.42	---	PASS
			30~1000	-5.42	-67.67	≤-25.42	PASS
			1000~26500	-5.42	-60.53	≤-25.42	PASS
	Ant1	2437	Reference	-4.23	-4.23	---	PASS
			30~1000	-4.23	-68.87	≤-24.23	PASS
			1000~26500	-4.23	-59.92	≤-24.23	PASS
	Ant2	2437	Reference	-5.66	-5.66	---	PASS
			30~1000	-5.66	-69.03	≤-25.66	PASS
			1000~26500	-5.66	-60.06	≤-25.66	PASS
	Ant1	2462	Reference	-5.18	-5.18	---	PASS
			30~1000	-5.18	-68.57	≤-25.18	PASS
			1000~26500	-5.18	-59.63	≤-25.18	PASS
	Ant2	2462	Reference	-6.62	-6.62	---	PASS
			30~1000	-6.62	-68.99	≤-26.62	PASS
			1000~26500	-6.62	-60.38	≤-26.62	PASS
11N40SISO	Ant1	2422	Reference	-6.72	-6.72	---	PASS
			30~1000	-6.72	-68.97	≤-26.72	PASS
			1000~26500	-6.72	-56.59	≤-26.72	PASS
	Ant2	2422	Reference	-8.62	-8.62	---	PASS
			30~1000	-8.62	-68.60	≤-28.62	PASS
			1000~26500	-8.62	-59.73	≤-28.62	PASS
	Ant1	2437	Reference	-6.76	-6.76	---	PASS
			30~1000	-6.76	-68.21	≤-26.76	PASS
			1000~26500	-6.76	-60.08	≤-26.76	PASS
	Ant2	2437	Reference	-7.08	-7.08	---	PASS
			30~1000	-7.08	-68.39	≤-27.08	PASS
			1000~26500	-7.08	-60.60	≤-27.08	PASS
	Ant1	2452	Reference	-7.48	-7.48	---	PASS
			30~1000	-7.48	-67.97	≤-27.48	PASS
			1000~26500	-7.48	-59.77	≤-27.48	PASS
	Ant2	2452	Reference	-8.34	-8.34	---	PASS
			30~1000	-8.34	-68.59	≤-28.34	PASS
			1000~26500	-8.34	-60.31	≤-28.34	PASS

Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500