

Appendix Test Data

Report No.:	18220WC30224303	Test Sample No.:	1-2-2
Start Test Date:	2023.10.23	Finish Test Date:	2023.10.28
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.6°C	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	8.56	2407.44	2416.00	≥0.5	PASS
	Ant2	2412	9.04	2407.44	2416.48	≥0.5	PASS
	Ant1	2437	9.04	2432.44	2441.48	≥0.5	PASS
	Ant2	2437	7.56	2432.92	2440.48	≥0.5	PASS
	Ant1	2462	7.08	2458.40	2465.48	≥0.5	PASS
	Ant2	2462	8.08	2457.92	2466.00	≥0.5	PASS
11G	Ant1	2412	15.04	2404.40	2419.44	≥0.5	PASS
	Ant2	2412	16.04	2404.08	2420.12	≥0.5	PASS
	Ant1	2437	16.04	2428.80	2444.84	≥0.5	PASS
	Ant2	2437	15.28	2429.44	2444.72	≥0.5	PASS
	Ant1	2462	16.04	2453.80	2469.84	≥0.5	PASS
	Ant2	2462	16.32	2453.80	2470.12	≥0.5	PASS
11N20SISO	Ant1	2412	15.12	2404.44	2419.56	≥0.5	PASS
	Ant2	2412	17.56	2403.20	2420.76	≥0.5	PASS
	Ant1	2437	17.60	2428.16	2445.76	≥0.5	PASS
	Ant2	2437	17.28	2428.44	2445.72	≥0.5	PASS
	Ant1	2462	12.92	2455.08	2468.00	≥0.5	PASS
	Ant2	2462	17.36	2453.16	2470.52	≥0.5	PASS
11N40SISO	Ant1	2422	27.54	2409.46	2437.00	≥0.5	PASS
	Ant2	2422	32.82	2404.42	2437.24	≥0.5	PASS
	Ant1	2437	29.04	2419.42	2448.46	≥0.5	PASS
	Ant2	2437	33.90	2420.62	2454.52	≥0.5	PASS

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	Ant1	2452	28.38	2438.56	2466.94	≥0.5	PASS
	Ant2	2452	35.82	2433.76	2469.58	≥0.5	PASS
11AX20SISO	Ant1	2412	15.72	2404.04	2419.76	≥0.5	PASS
	Ant2	2412	18.16	2403.20	2421.36	≥0.5	PASS
	Ant1	2437	17.88	2428.24	2446.12	≥0.5	PASS
	Ant2	2437	17.48	2428.68	2446.16	≥0.5	PASS
	Ant1	2462	18.72	2452.56	2471.28	≥0.5	PASS
	Ant2	2462	18.76	2452.52	2471.28	≥0.5	PASS
11AX40SISO	Ant1	2422	35.70	2404.36	2440.06	≥0.5	PASS
	Ant2	2422	29.70	2409.76	2439.46	≥0.5	PASS
	Ant1	2437	31.32	2420.62	2451.94	≥0.5	PASS
	Ant2	2437	33.90	2420.62	2454.52	≥0.5	PASS
	Ant1	2452	32.52	2436.94	2469.46	≥0.5	PASS
	Ant2	2452	34.08	2433.16	2467.24	≥0.5	PASS

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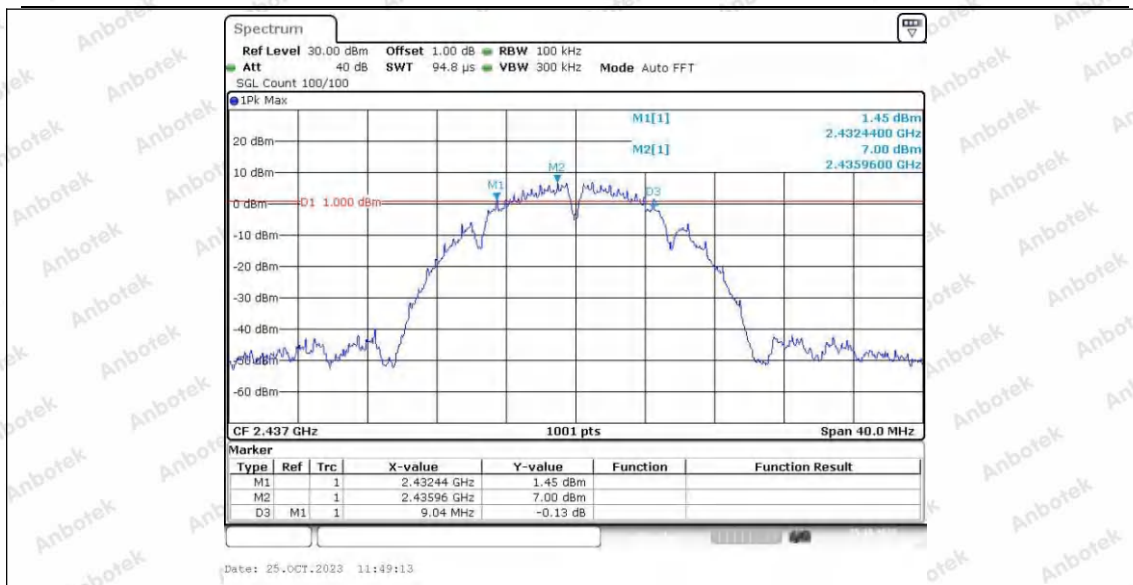


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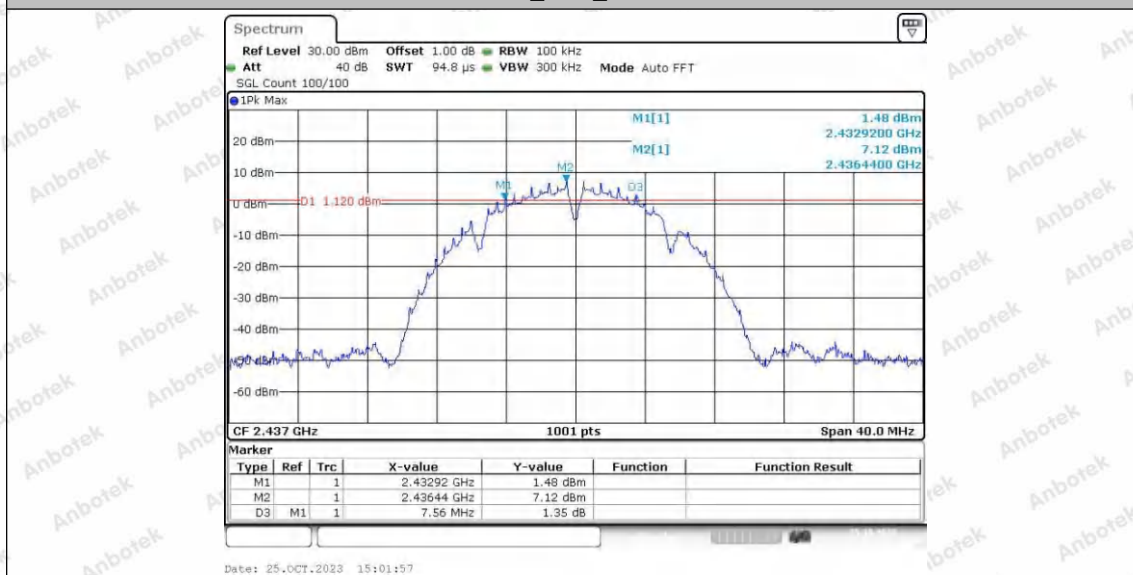


Test Graphs





11B_Ant2_2437



11B_Ant1_2462

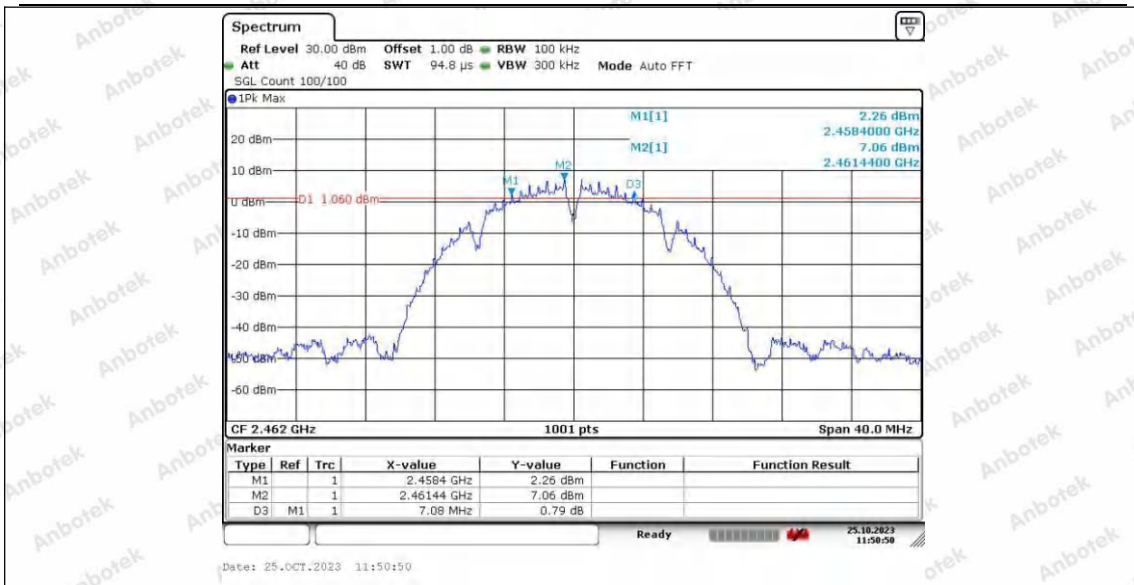
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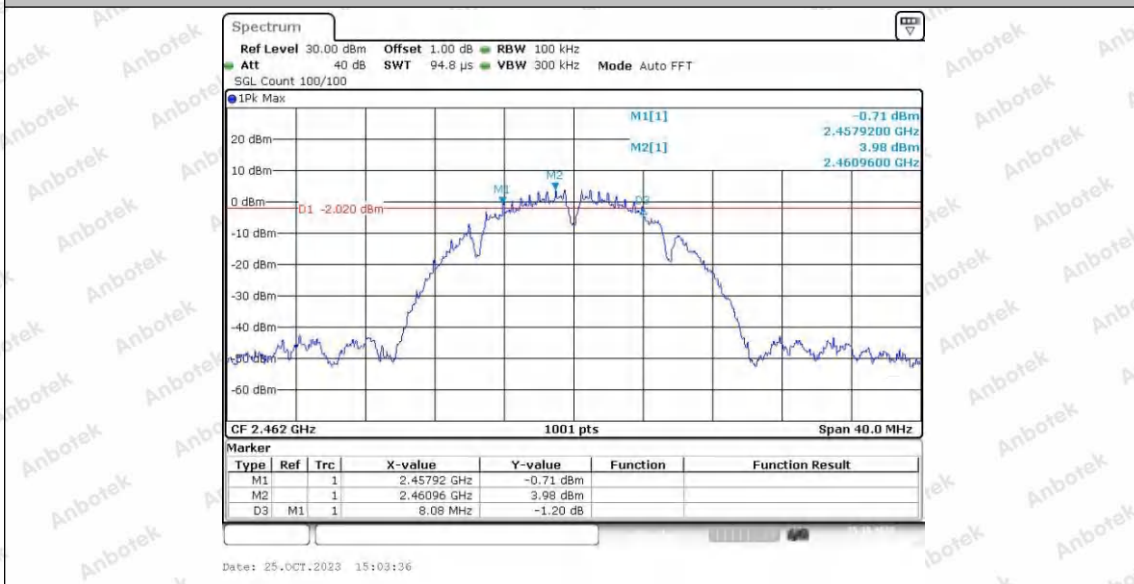


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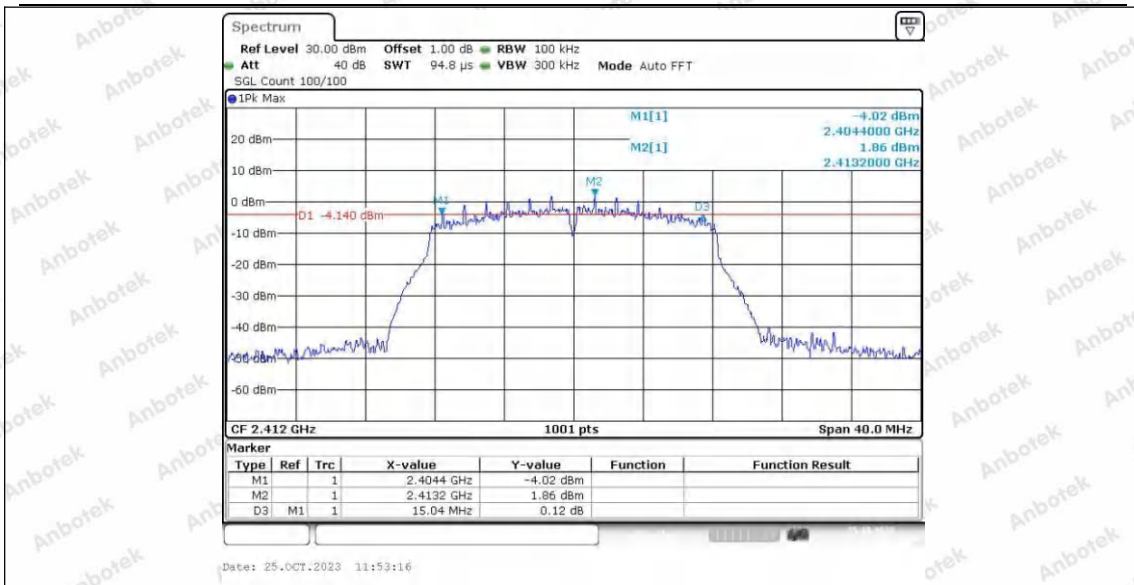


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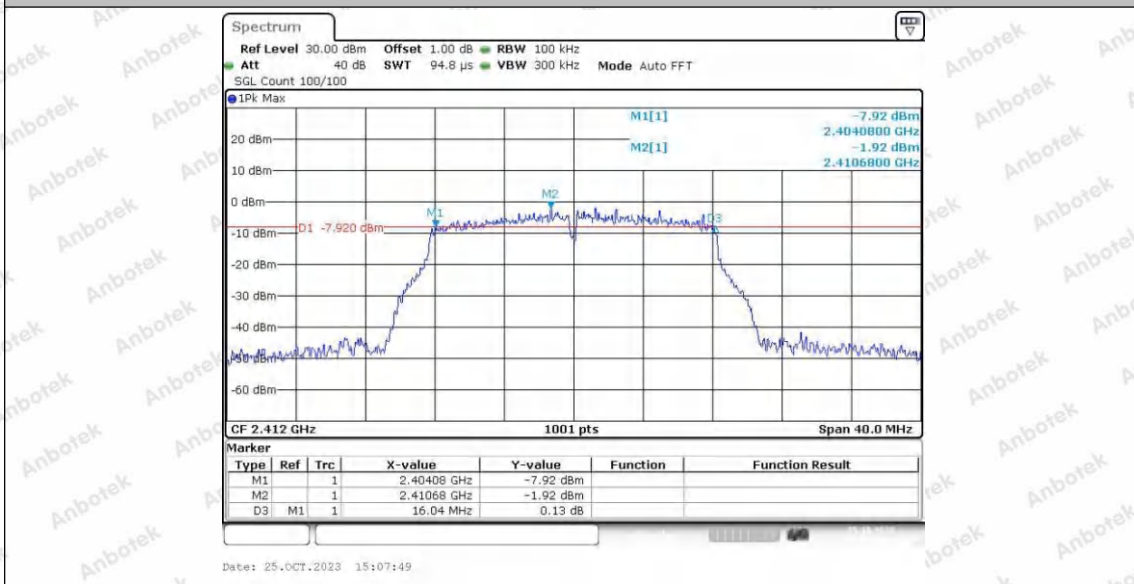


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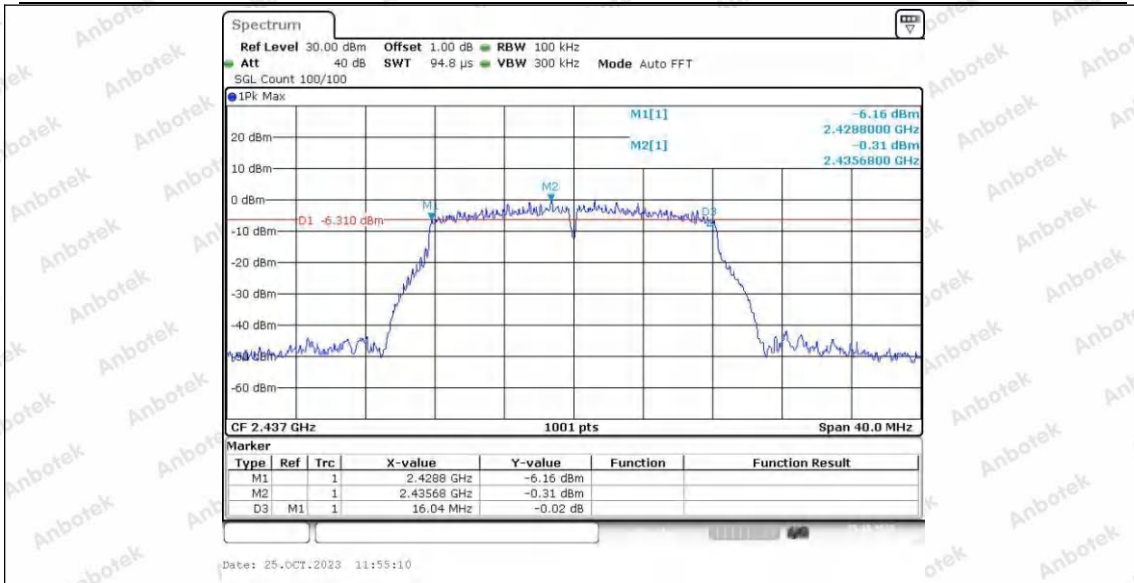


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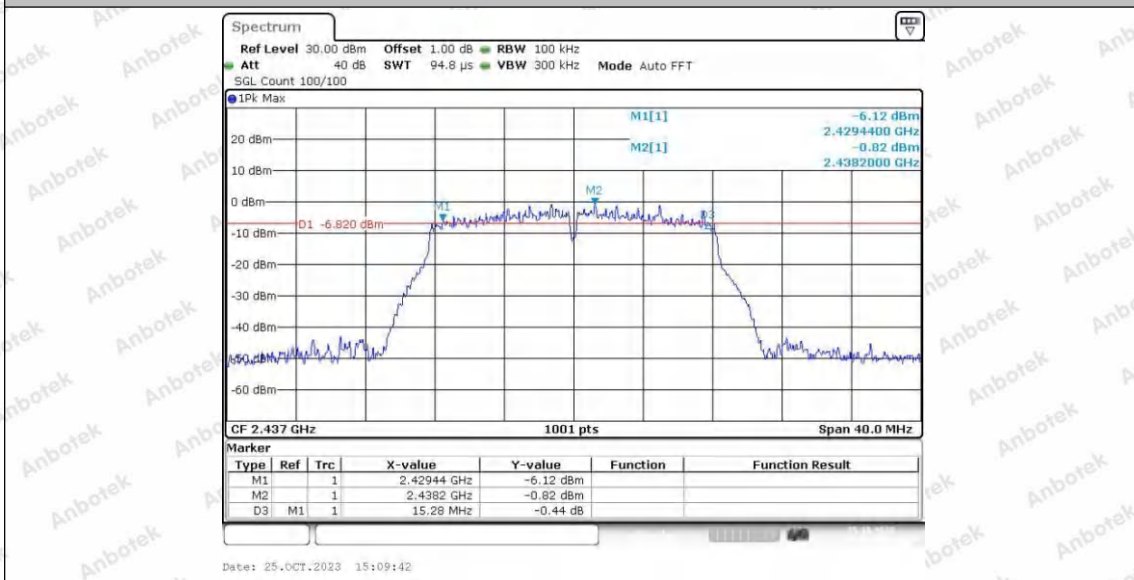


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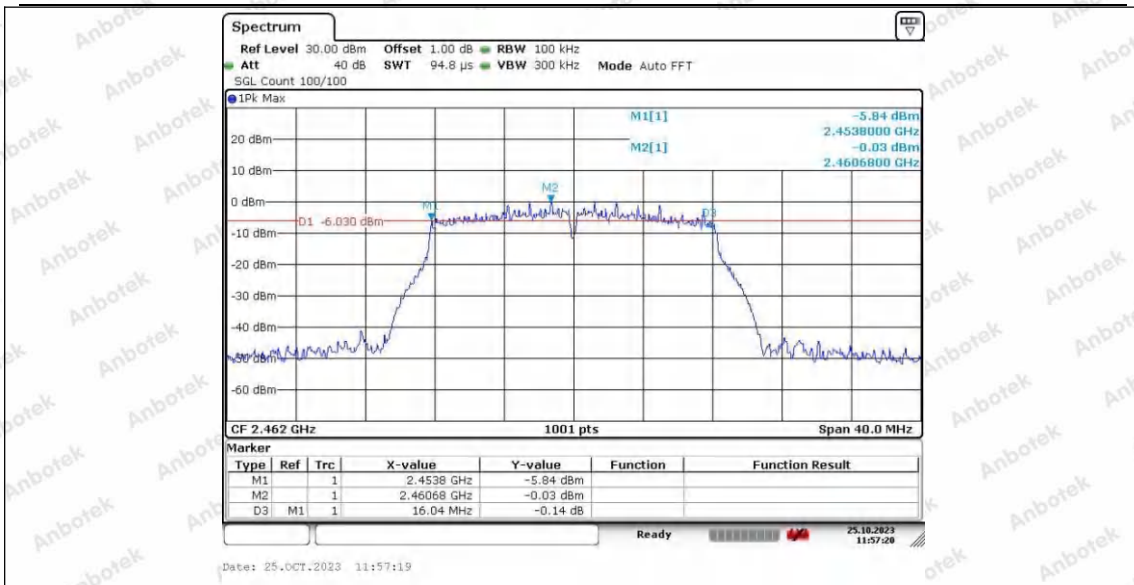


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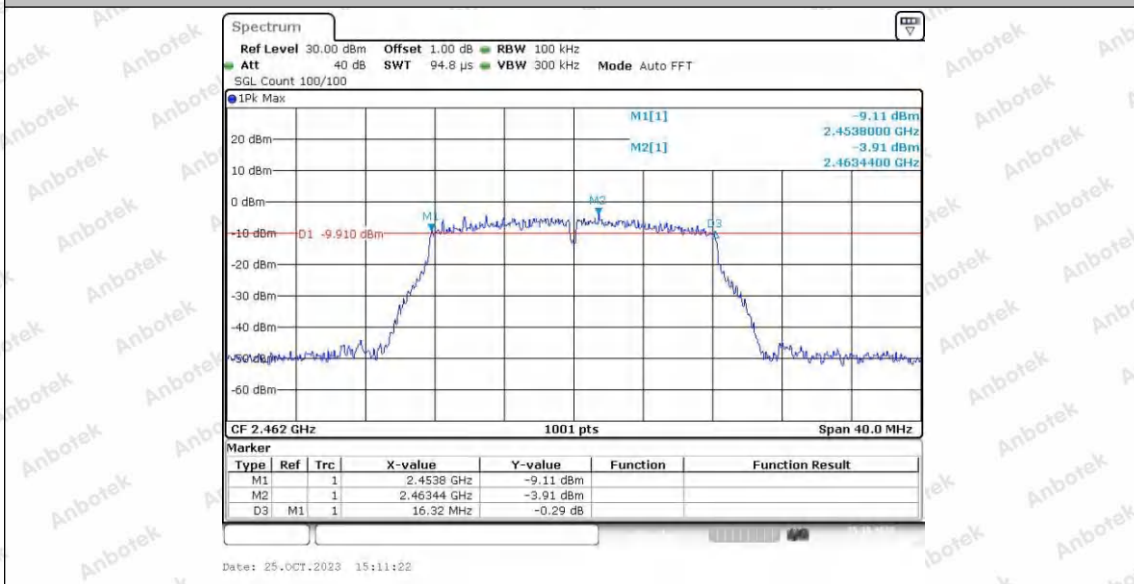


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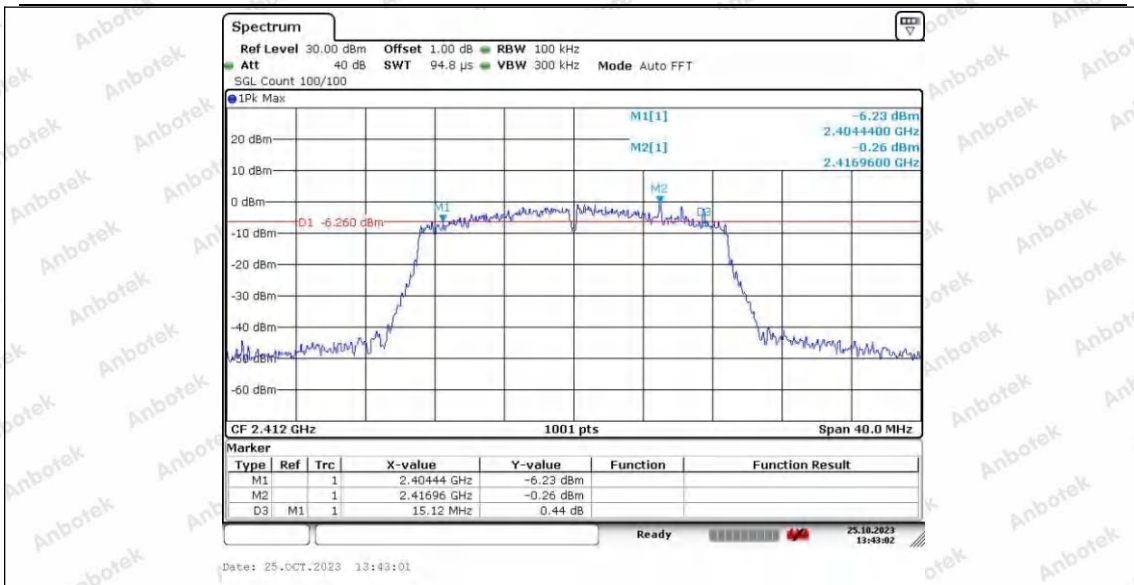


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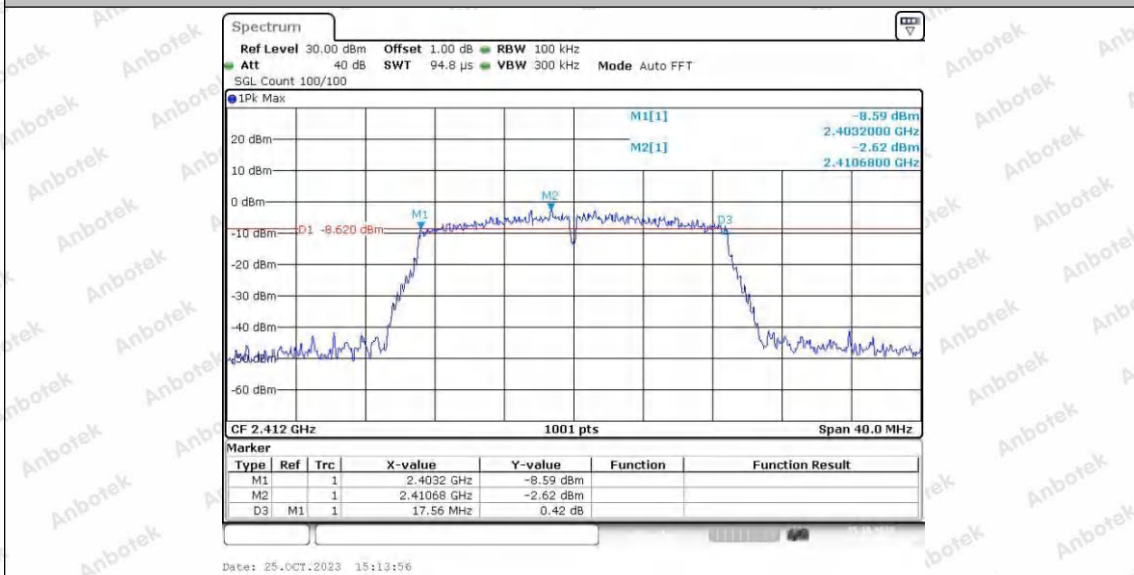


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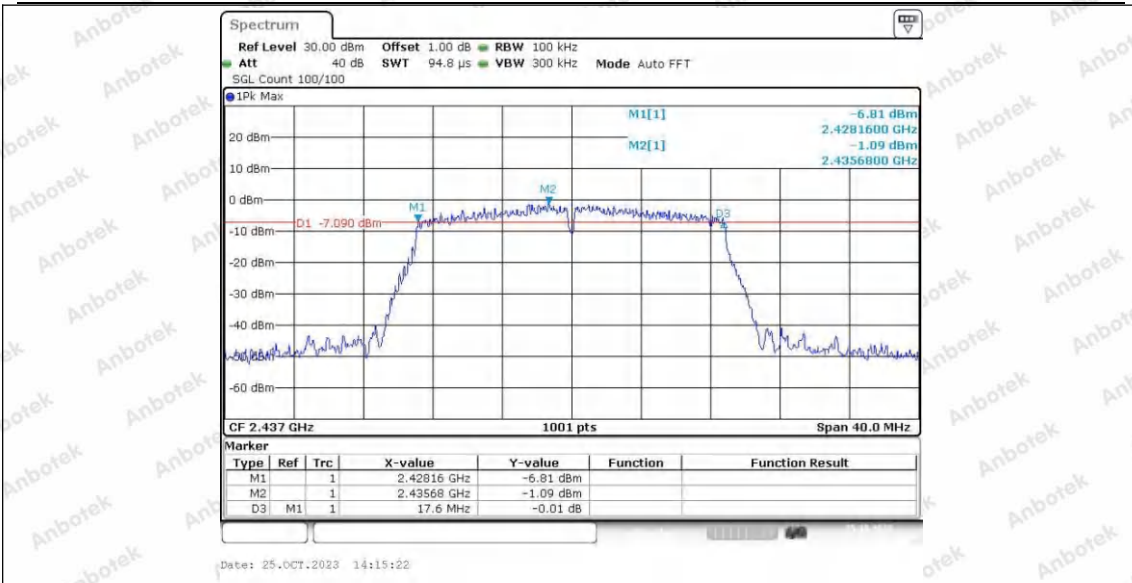


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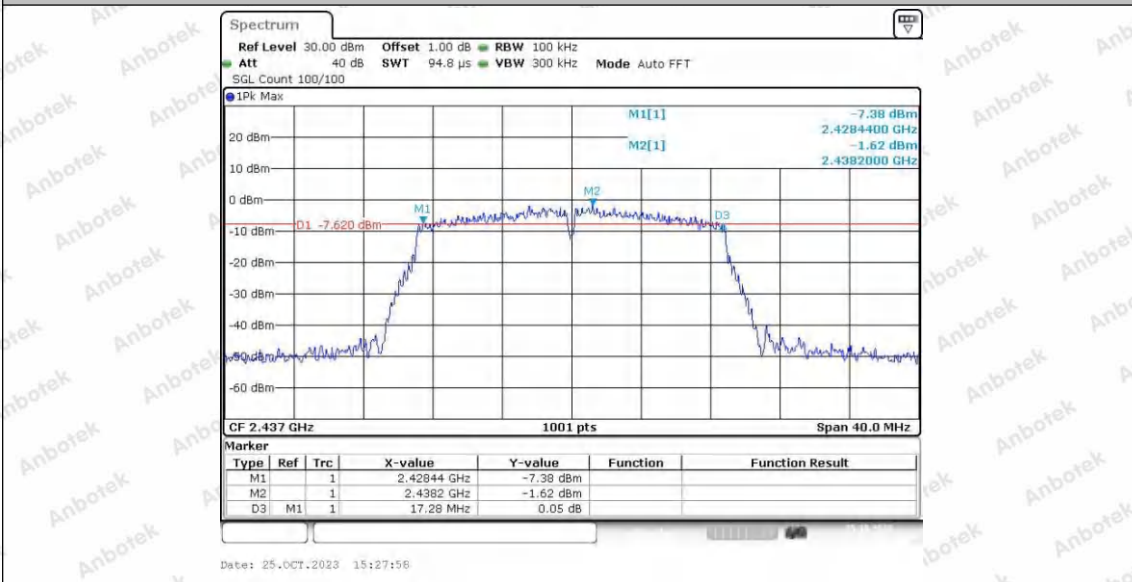


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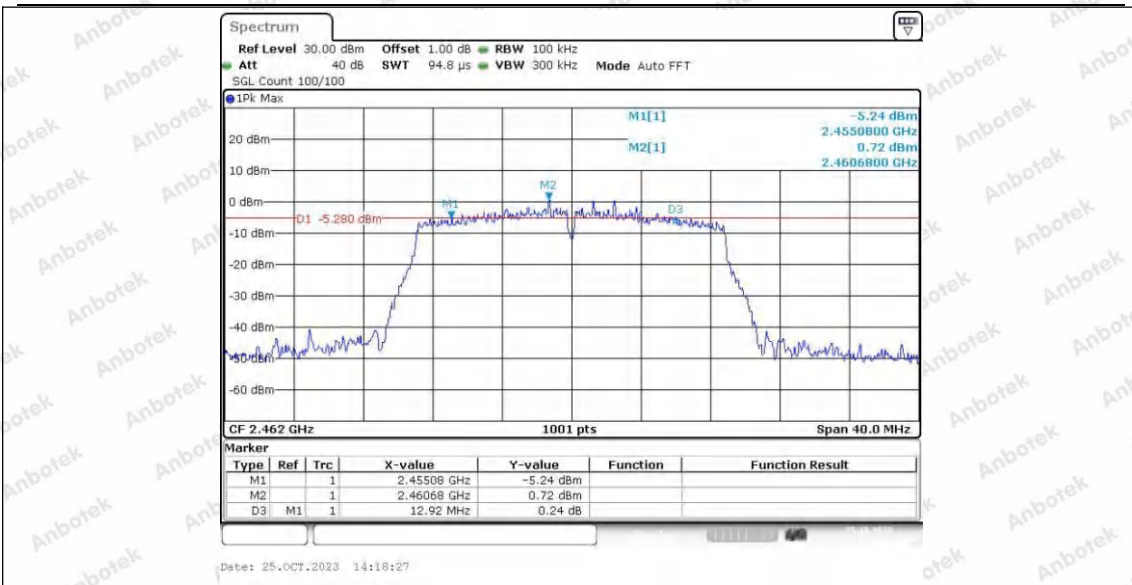


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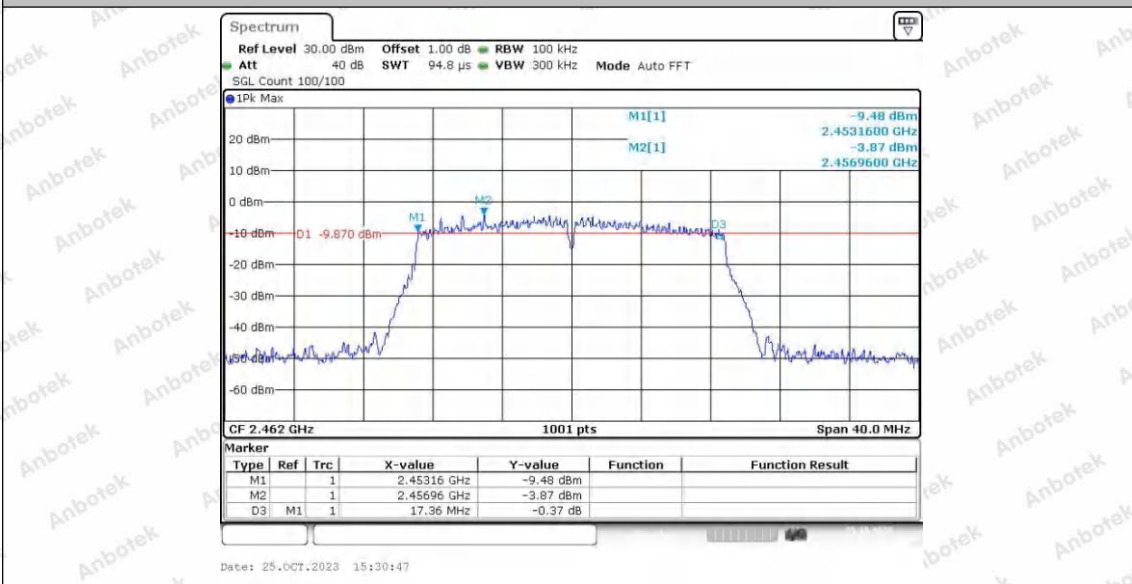


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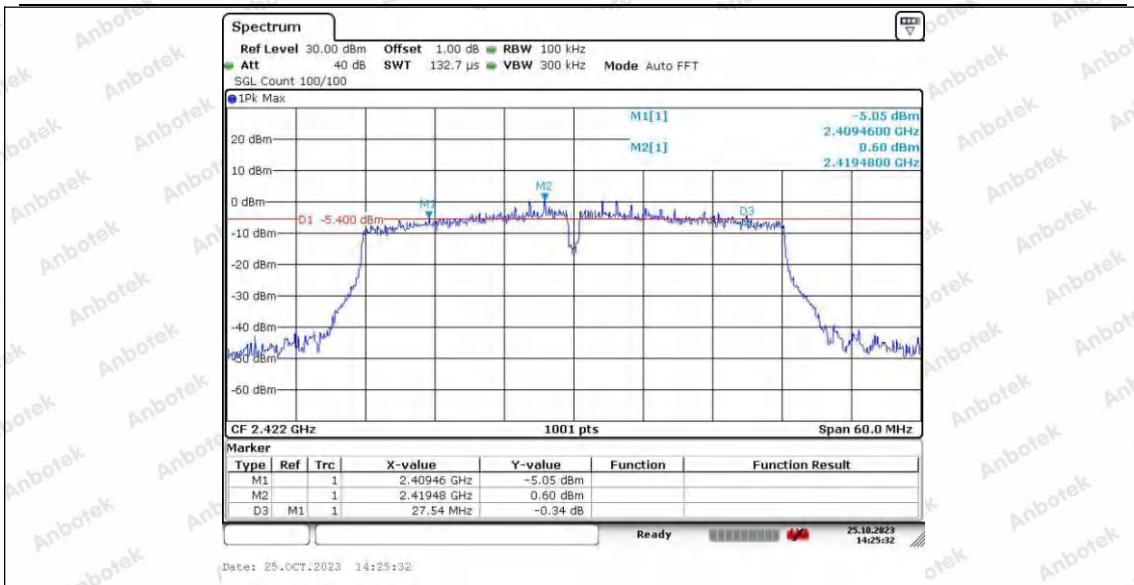


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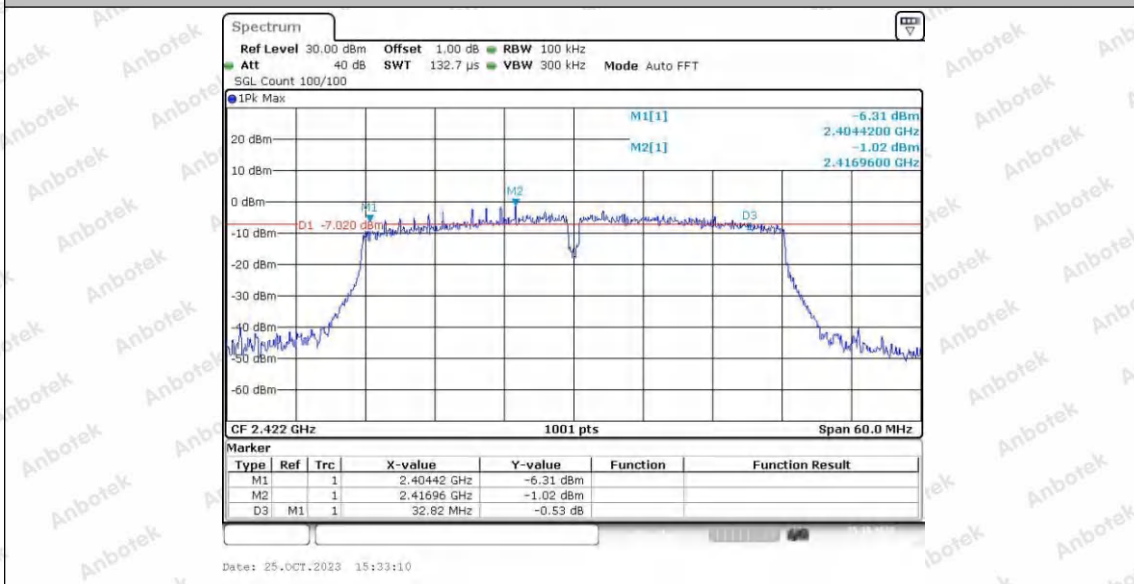


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11N40SISO_Ant2_2422



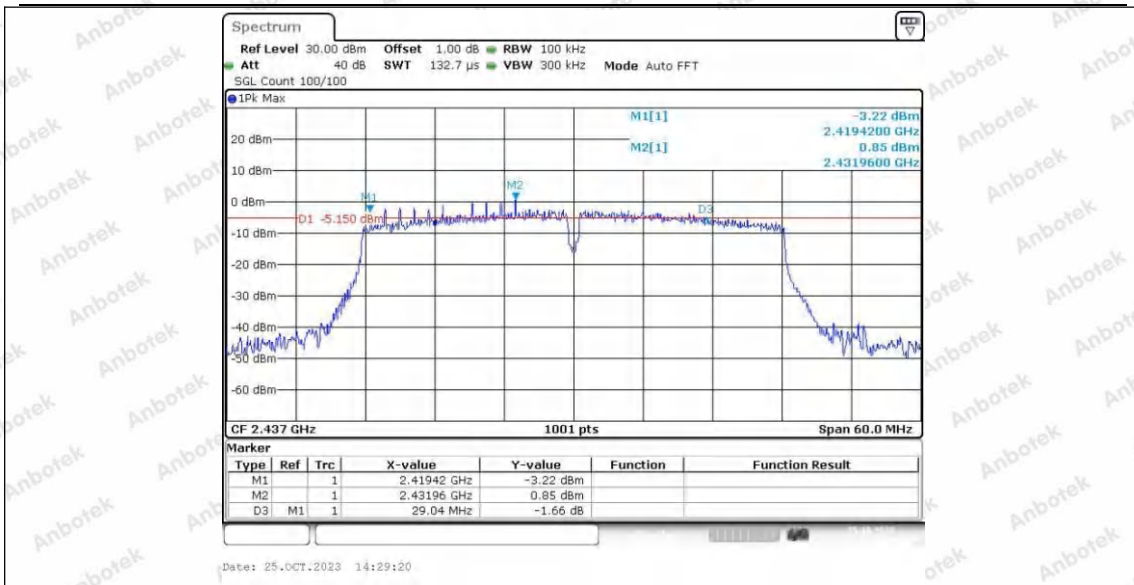
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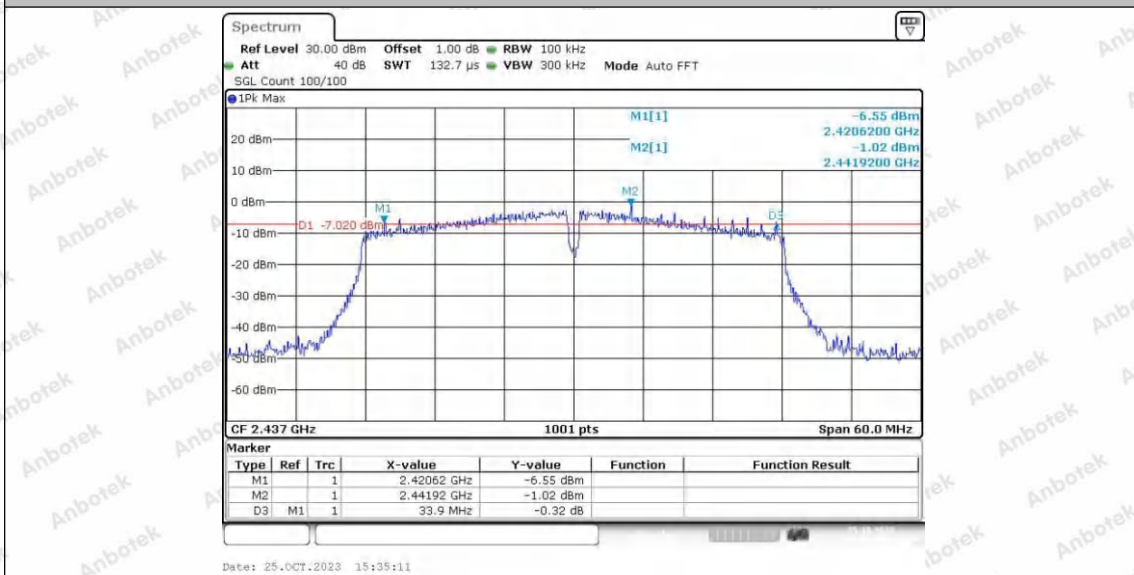
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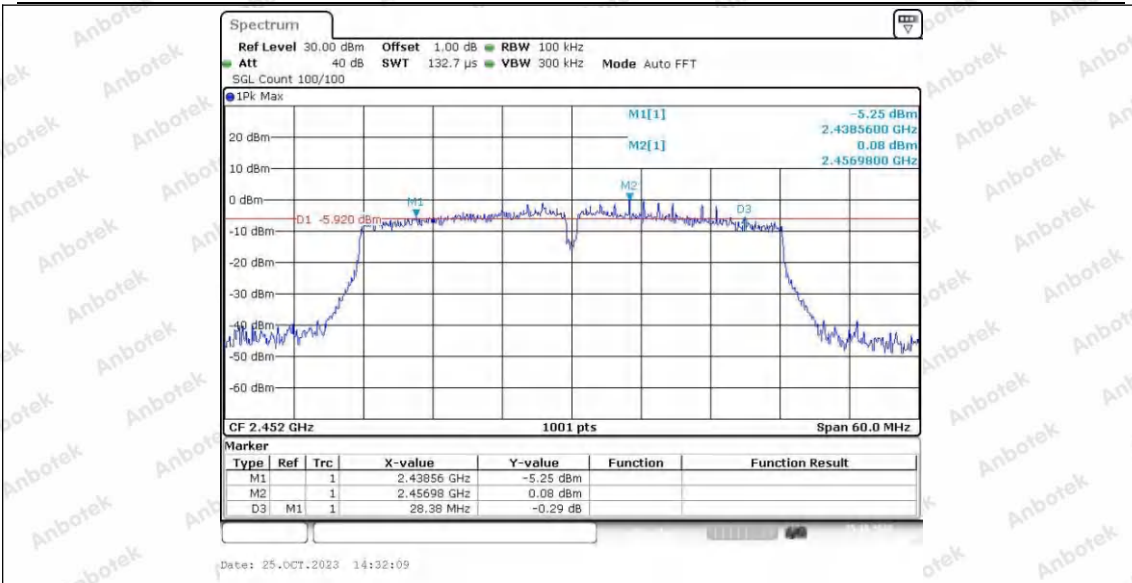


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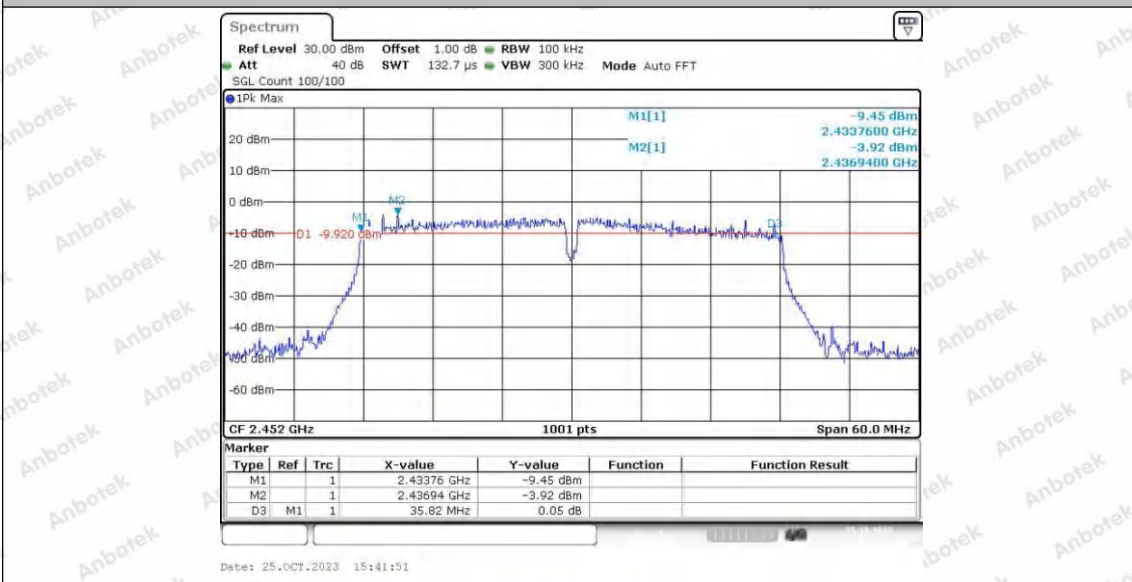


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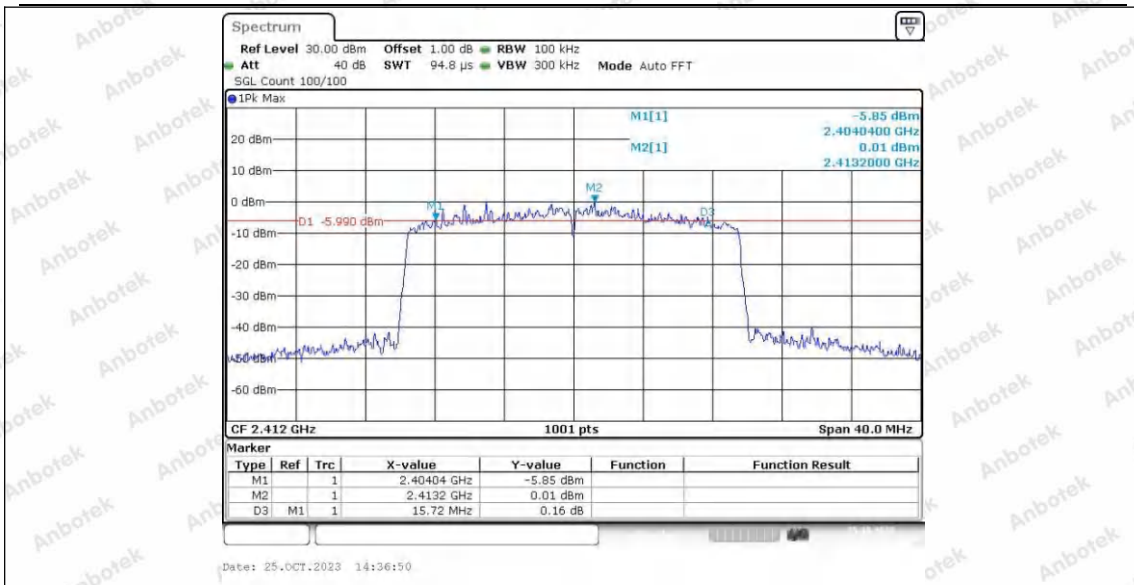


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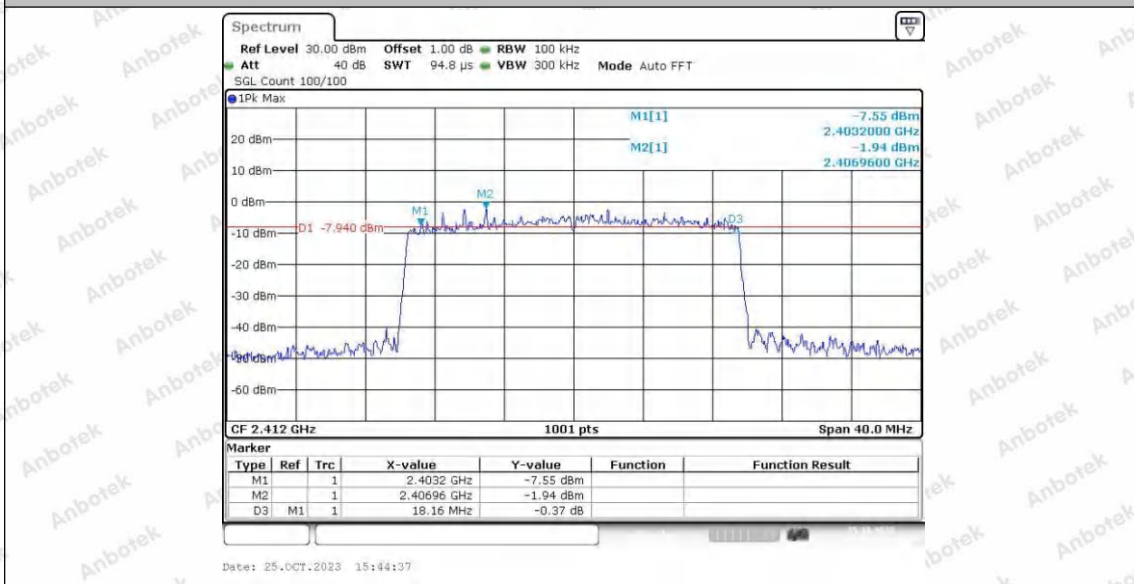


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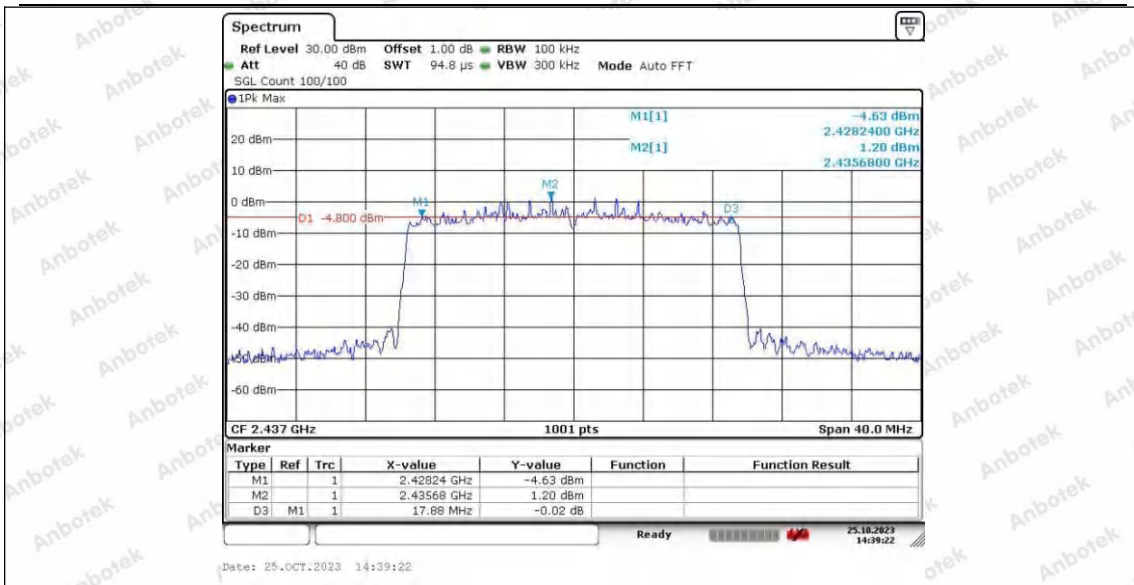


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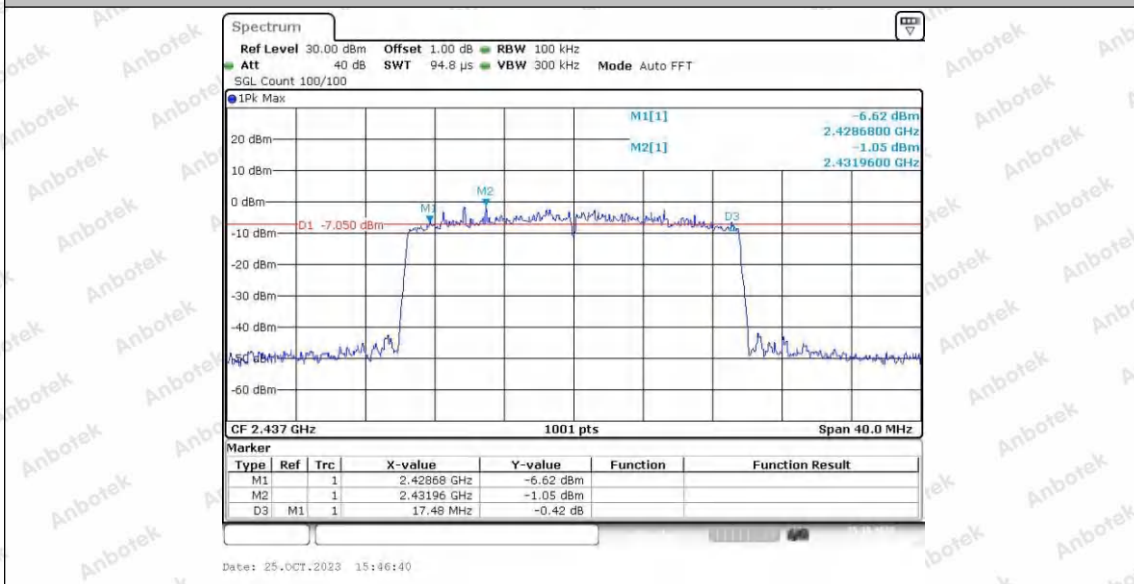


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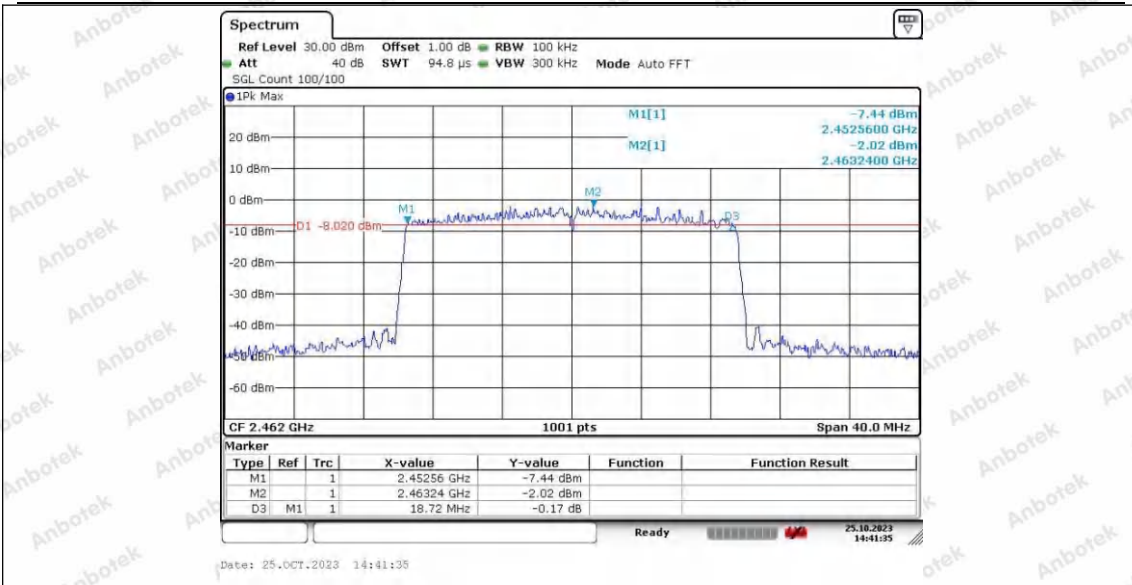


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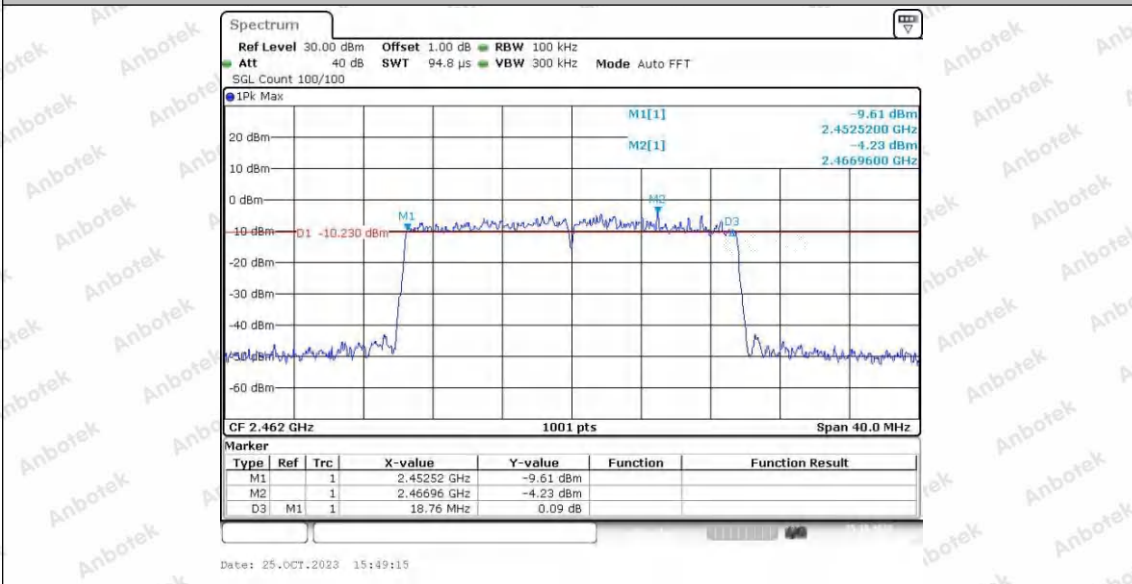


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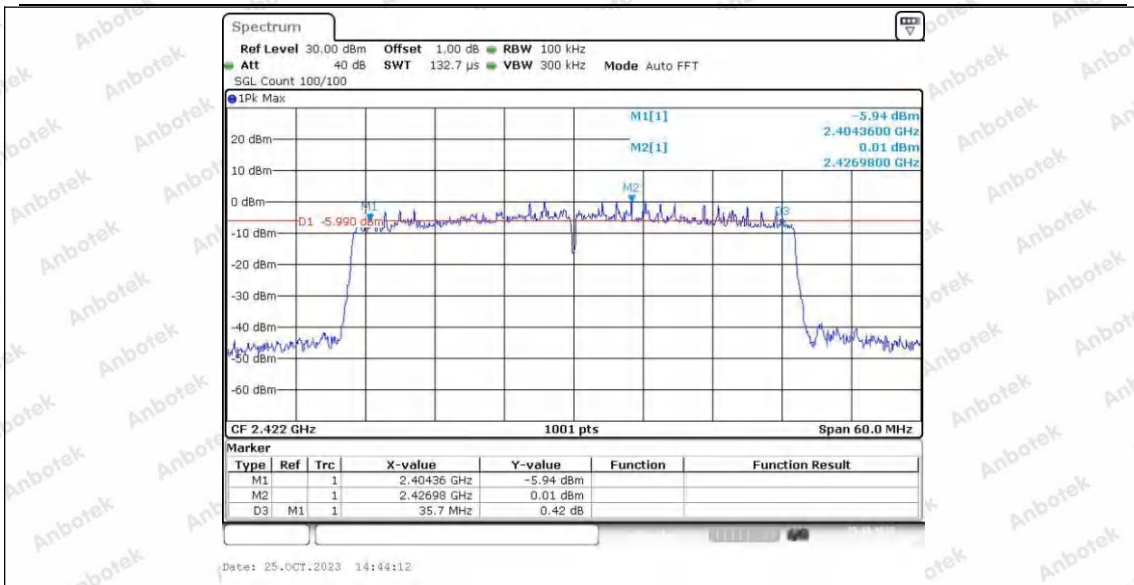
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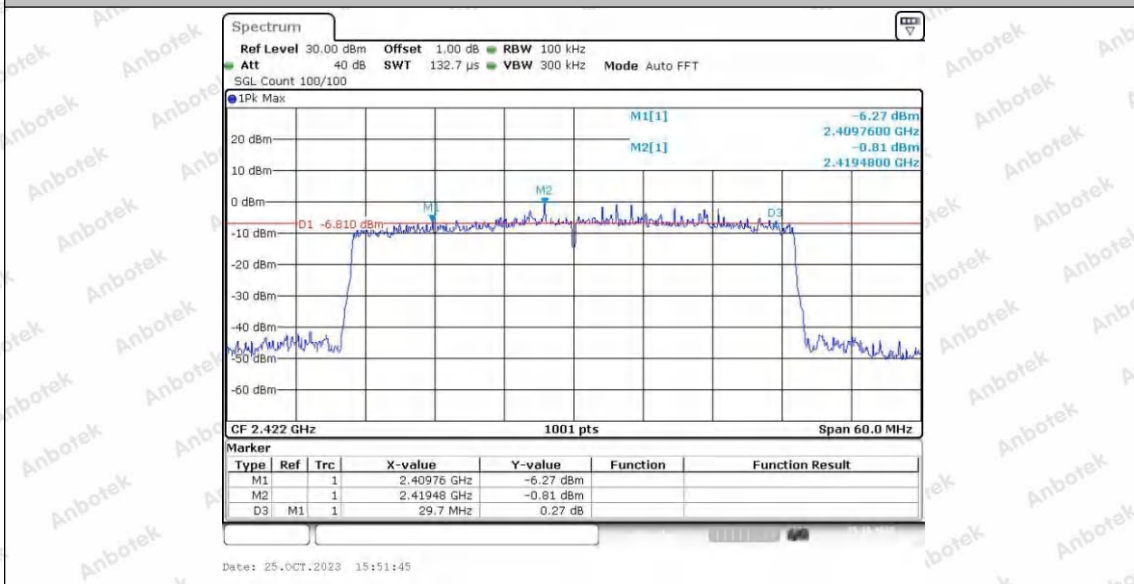
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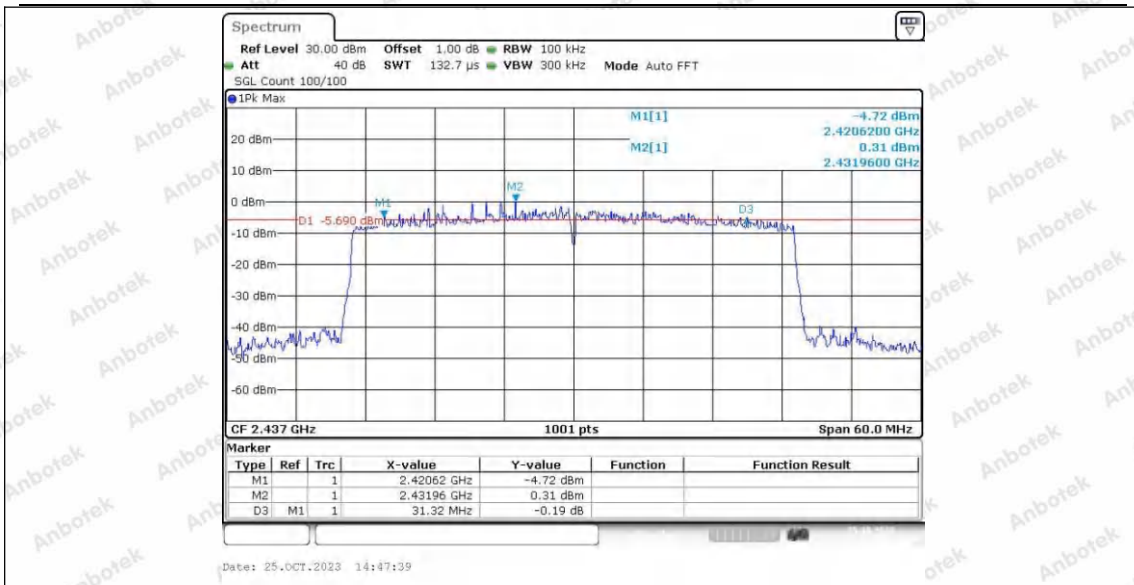


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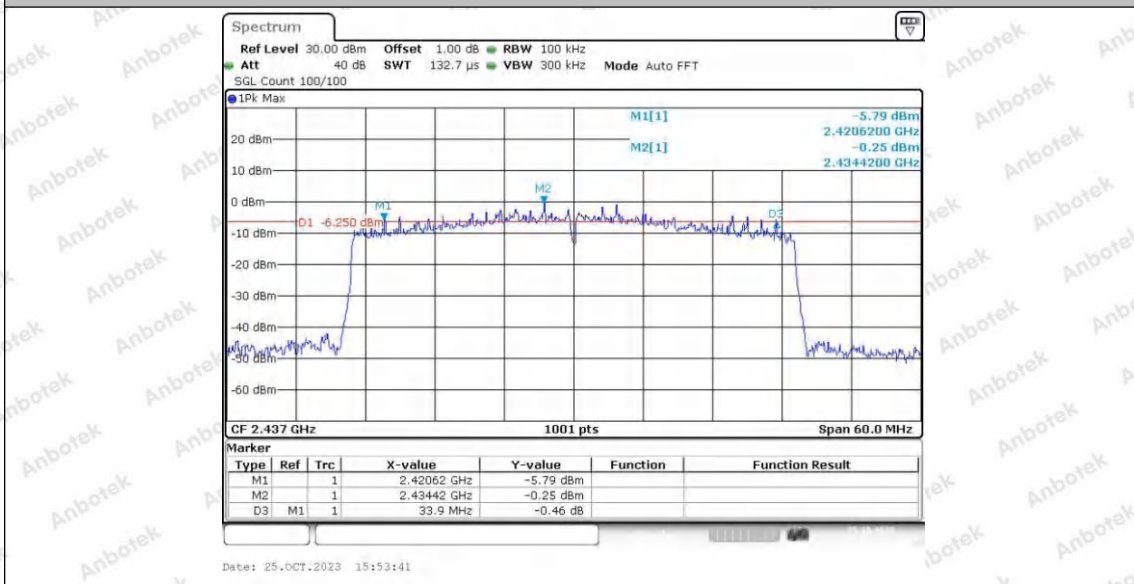


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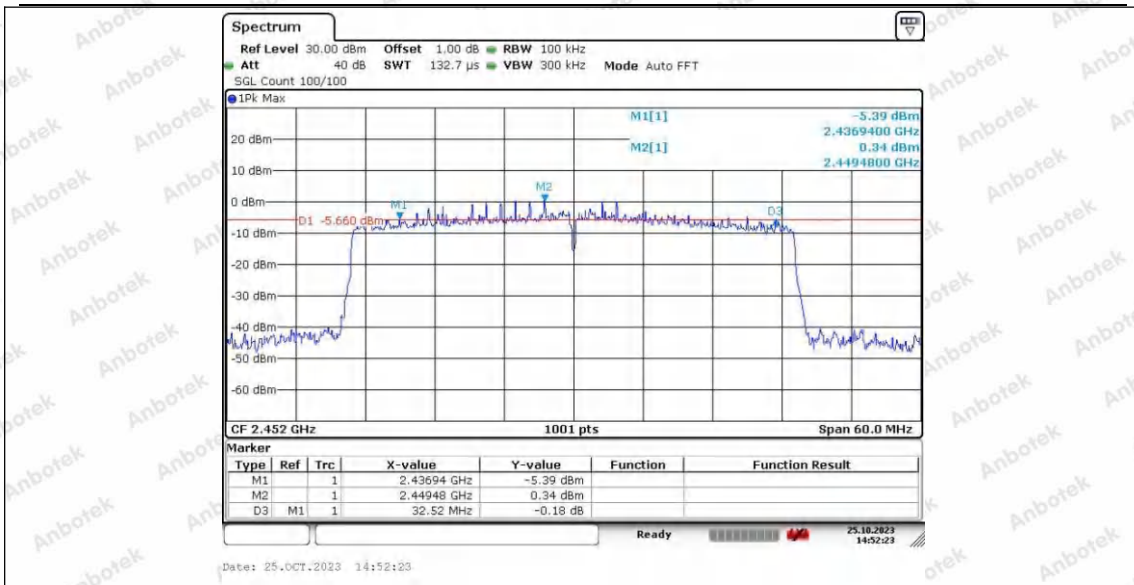


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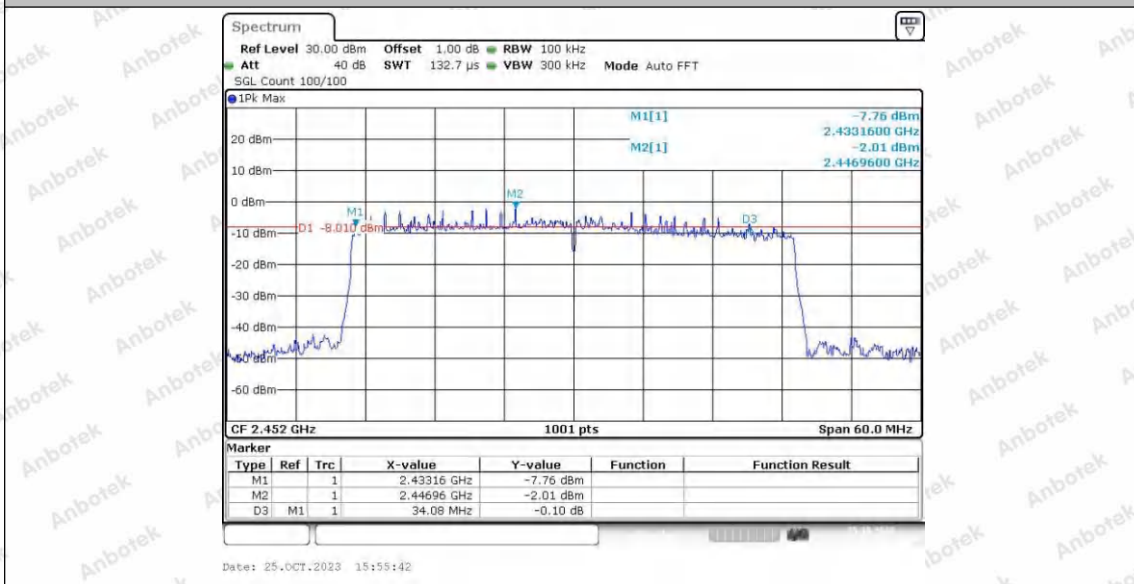


11AX40SISO_Ant1_2452





11AX40SISO_Ant2_2452



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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	12.507	2405.8062	2418.3137	---	---
	Ant2	2412	12.747	2405.6863	2418.4336	---	---
	Ant1	2437	12.747	2430.6064	2443.3536	---	---
	Ant2	2437	12.547	2430.6464	2443.1938	---	---
	Ant1	2462	12.787	2455.5265	2468.3137	---	---
	Ant2	2462	12.907	2455.4865	2468.3936	---	---
11G	Ant1	2412	16.703	2403.6883	2420.3916	---	---
	Ant2	2412	16.943	2403.5684	2420.5115	---	---
	Ant1	2437	16.943	2428.5285	2445.4715	---	---
	Ant2	2437	16.863	2428.5684	2445.4316	---	---
	Ant1	2462	16.943	2453.4486	2470.3916	---	---
	Ant2	2462	16.943	2453.4486	2470.3916	---	---
11N20SISO	Ant1	2412	17.582	2403.2088	2420.7912	---	---
	Ant2	2412	17.862	2403.0889	2420.9510	---	---
	Ant1	2437	17.902	2428.0490	2445.9510	---	---
	Ant2	2437	17.742	2428.0889	2445.8312	---	---
	Ant1	2462	17.822	2453.0490	2470.8711	---	---
	Ant2	2462	17.862	2453.0090	2470.8711	---	---
11N40SISO	Ant1	2422	35.884	2404.1778	2440.0619	---	---
	Ant2	2422	35.964	2404.0979	2440.0619	---	---
	Ant1	2437	36.044	2419.0180	2455.0619	---	---
	Ant2	2437	35.564	2419.1778	2454.7423	---	---
	Ant1	2452	36.124	2433.9381	2470.0619	---	---
	Ant2	2452	36.204	2433.7782	2469.9820	---	---
11AX20SISO	Ant1	2412	18.741	2402.6494	2421.3906	---	---
	Ant2	2412	18.861	2402.5694	2421.4306	---	---
	Ant1	2437	18.901	2427.5295	2446.4306	---	---
	Ant2	2437	18.861	2427.5295	2446.3906	---	---
	Ant1	2462	18.861	2452.5295	2471.3906	---	---
	Ant2	2462	18.941	2452.4895	2471.4306	---	---
11AX40SISO	Ant1	2422	37.722	2403.2188	2440.9411	---	---
	Ant2	2422	37.562	2403.2987	2440.8611	---	---
	Ant1	2437	37.642	2418.1389	2455.7812	---	---
	Ant2	2437	37.323	2418.2987	2455.6214	---	---
	Ant1	2452	37.722	2433.1389	2470.8611	---	---



	Ant2	2452	37.642	2433.1389	2470.7812	---	---
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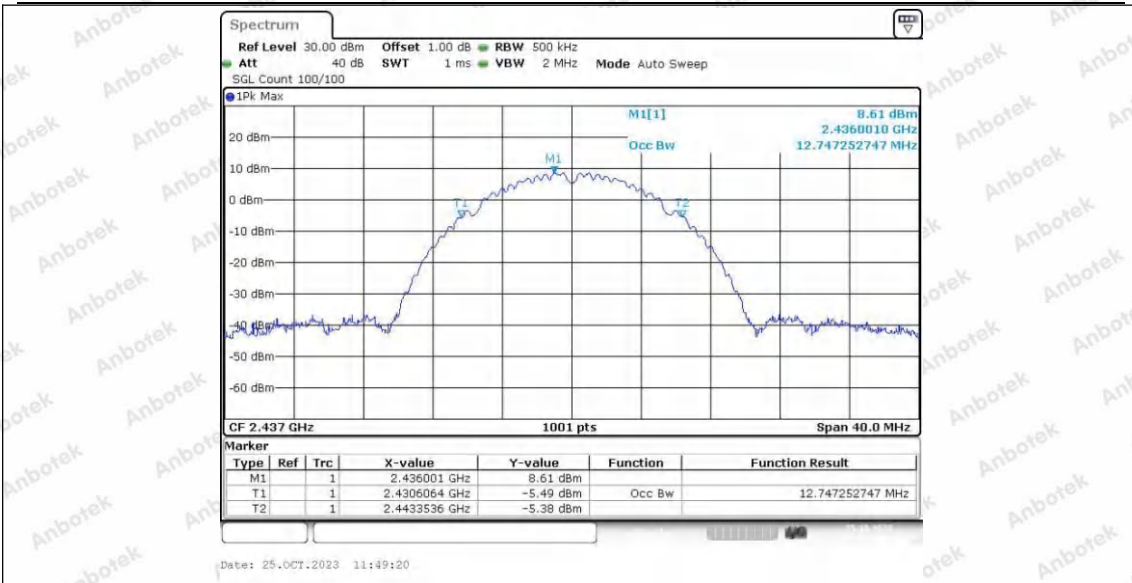


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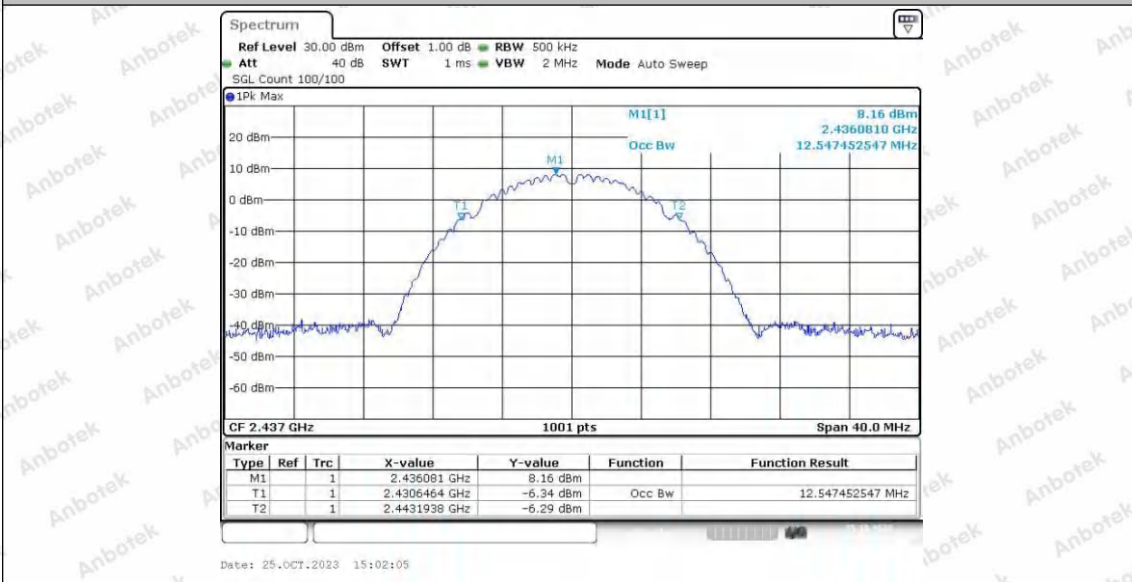


Test Graphs



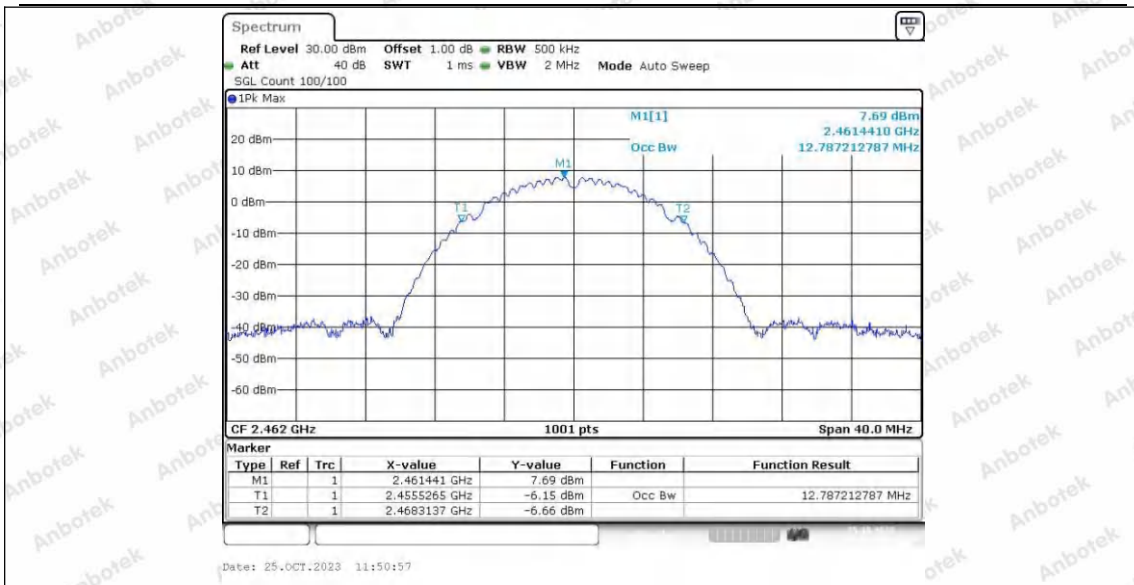


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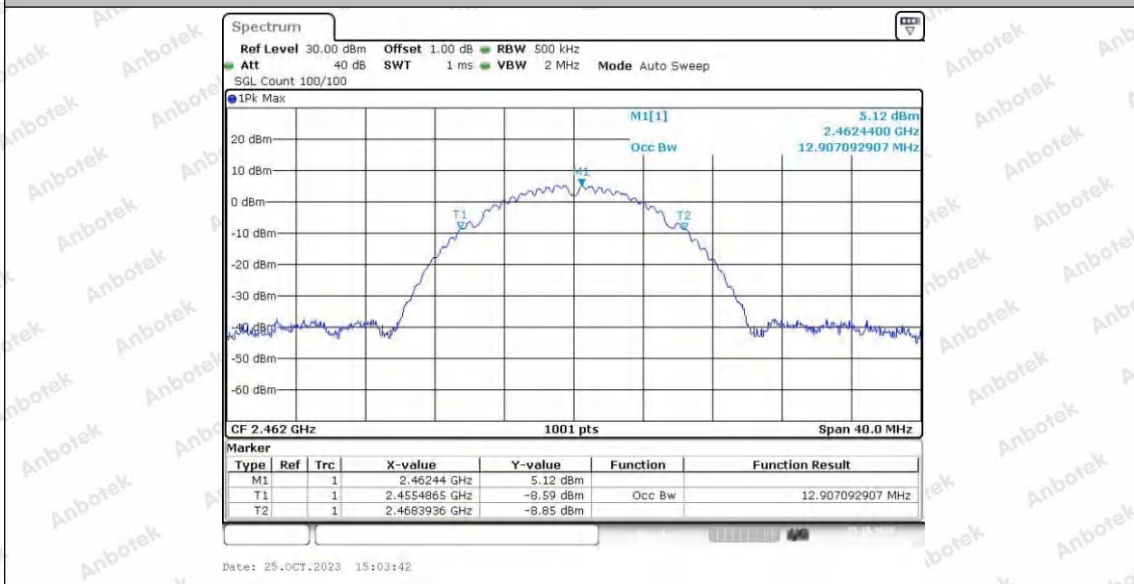


11B_Ant1_2462



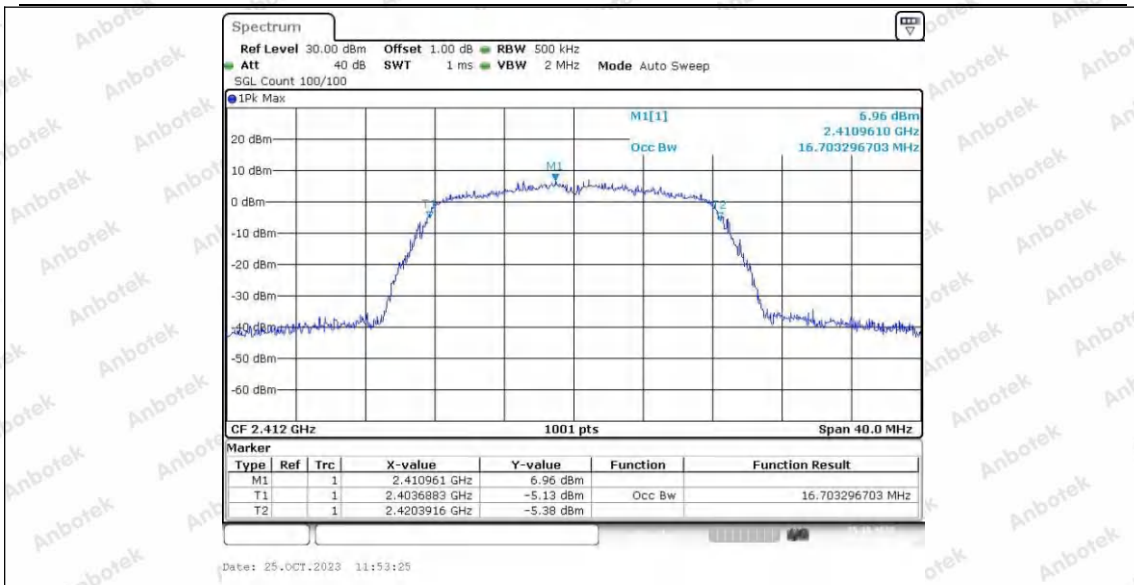


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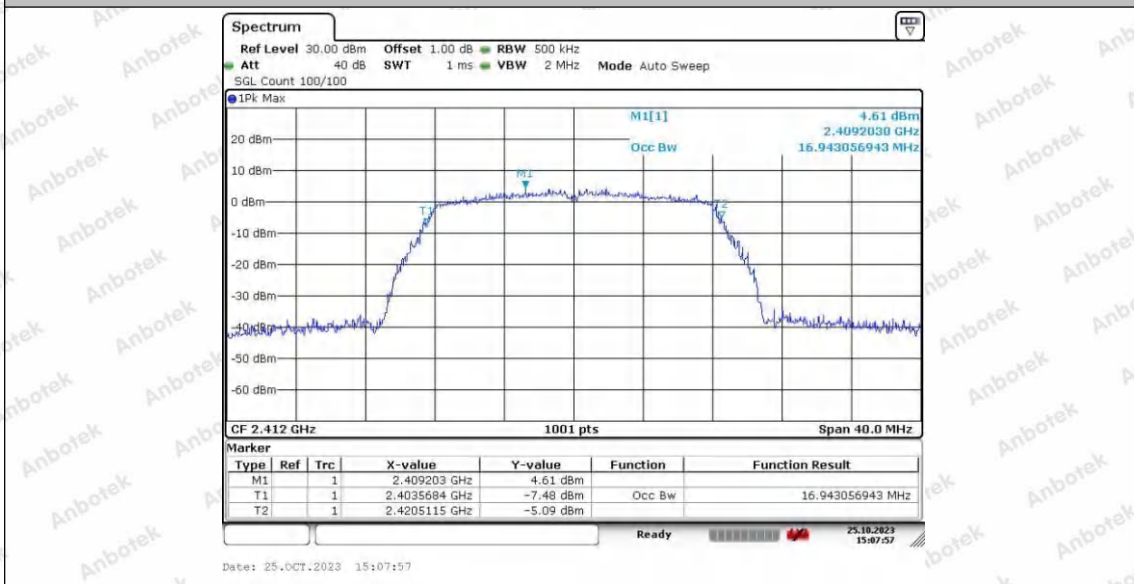


11G_Ant1_2412





11G_Ant2_2412



11G_Ant1_2437

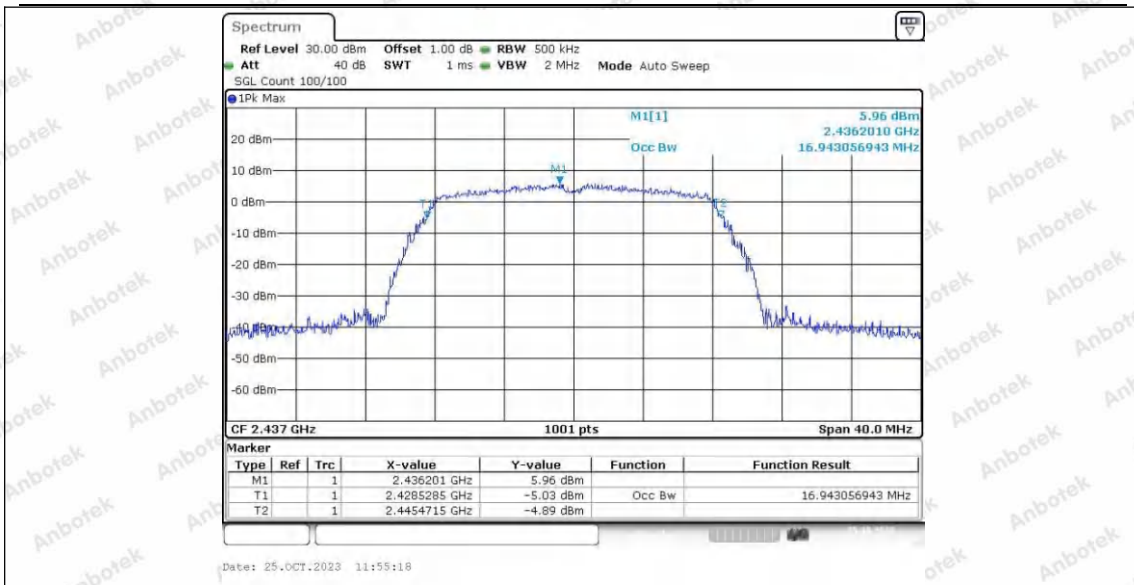
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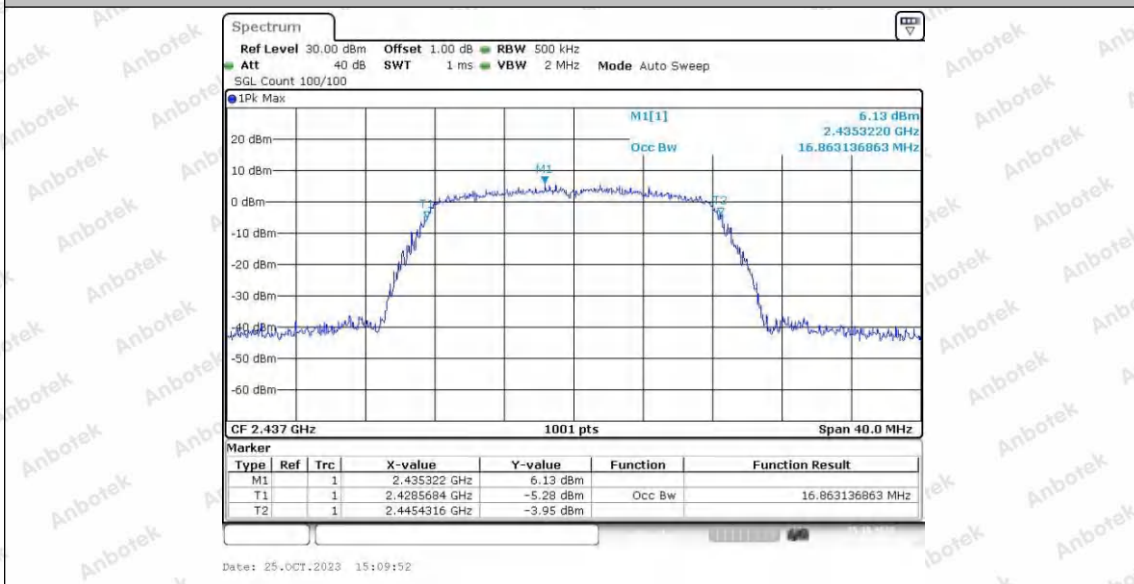


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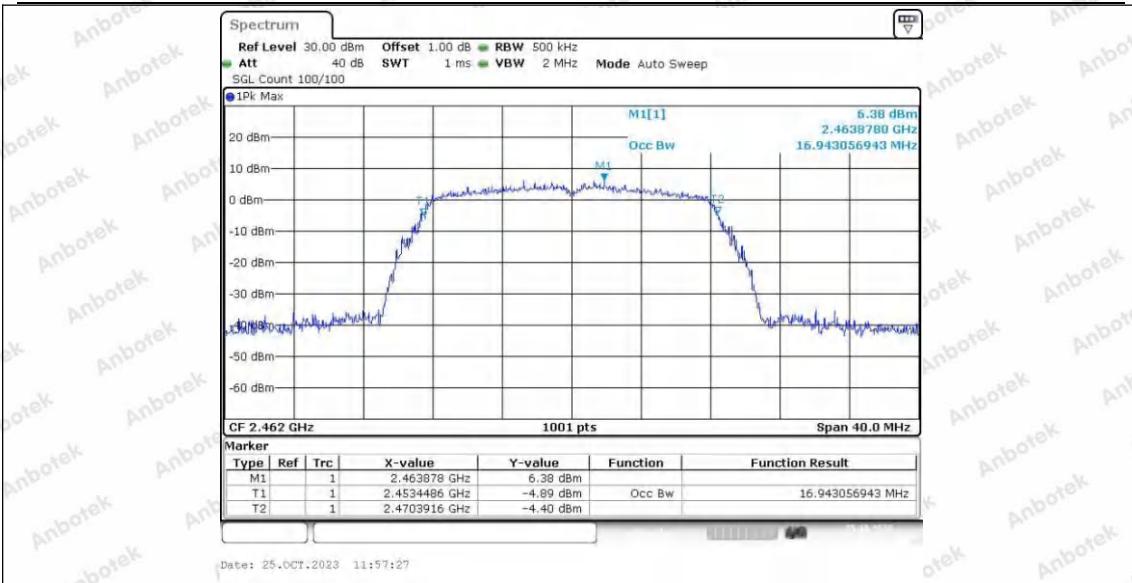


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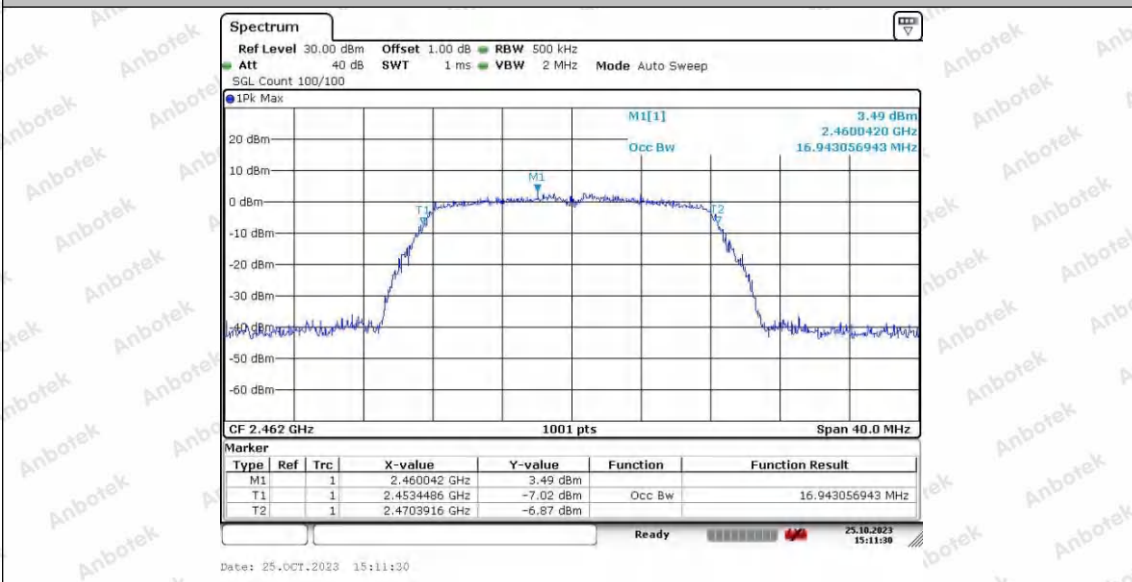


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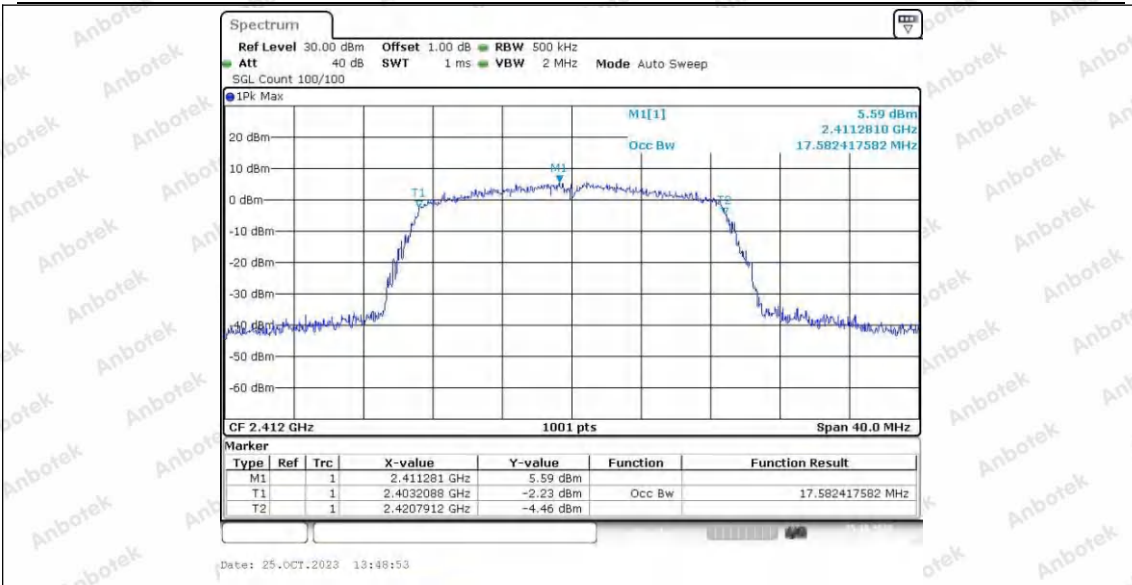


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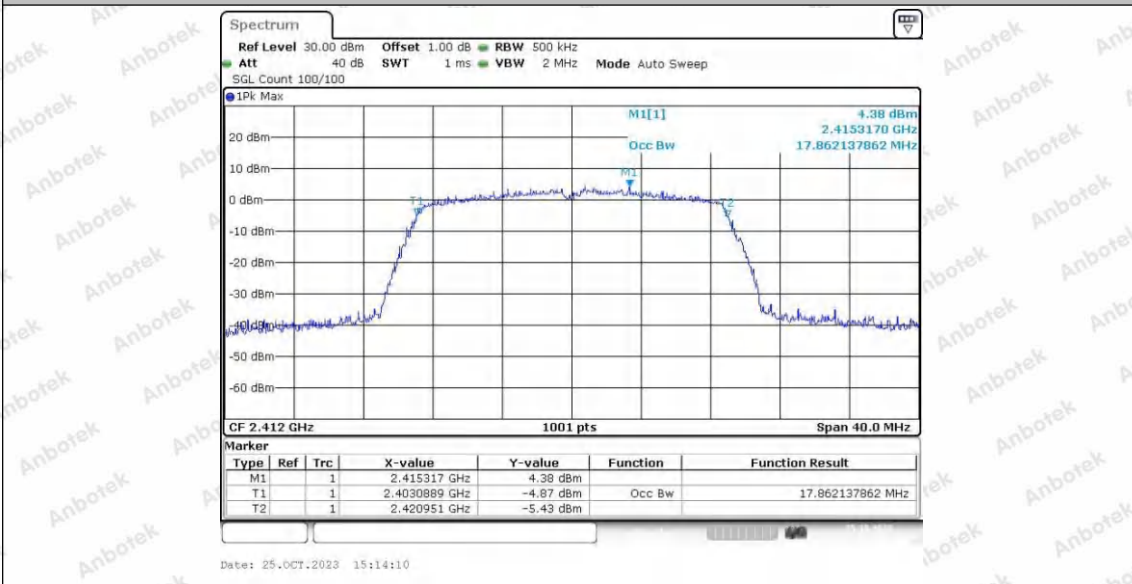


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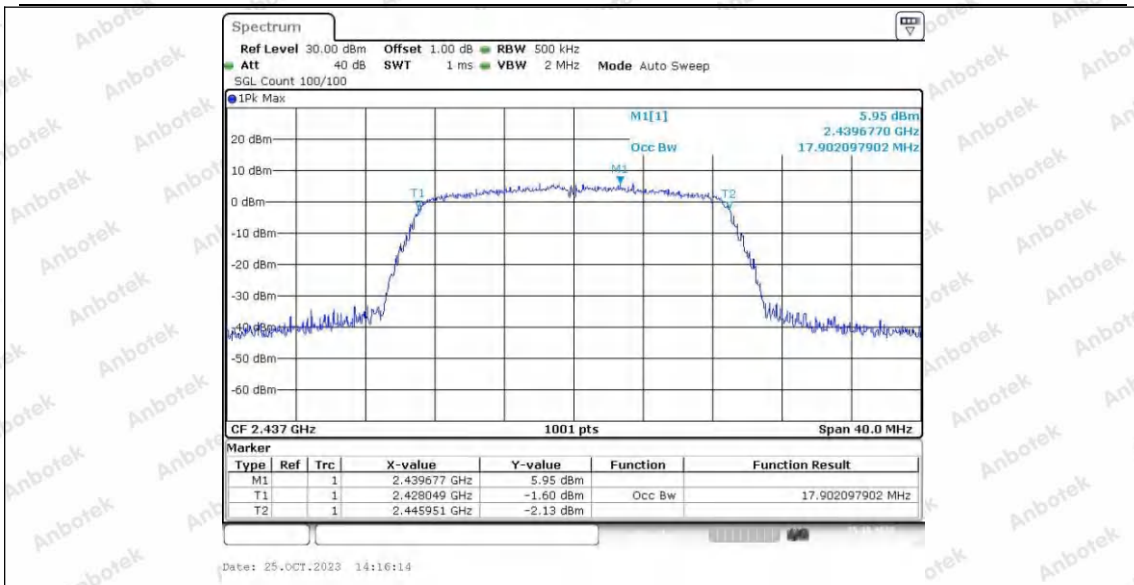


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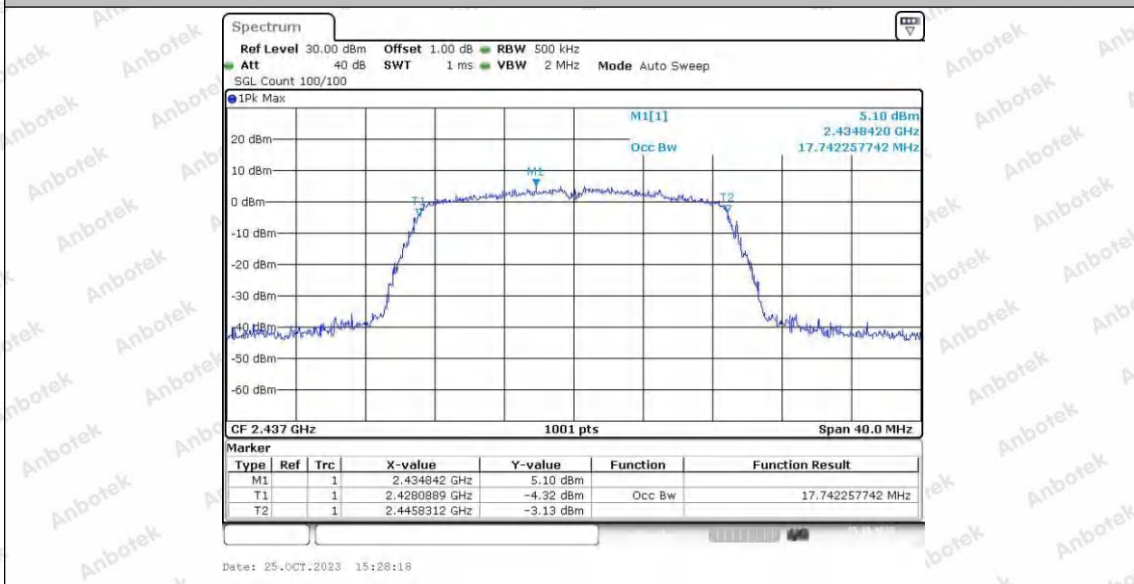


11N20SISO_Ant1_2437





11N20SISO_Ant2_2437



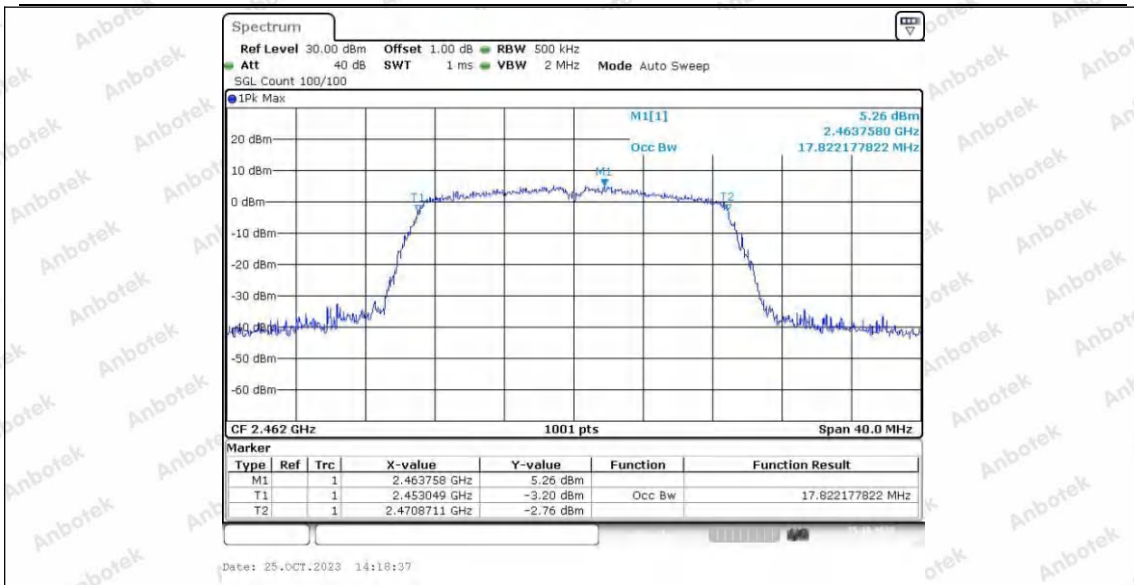
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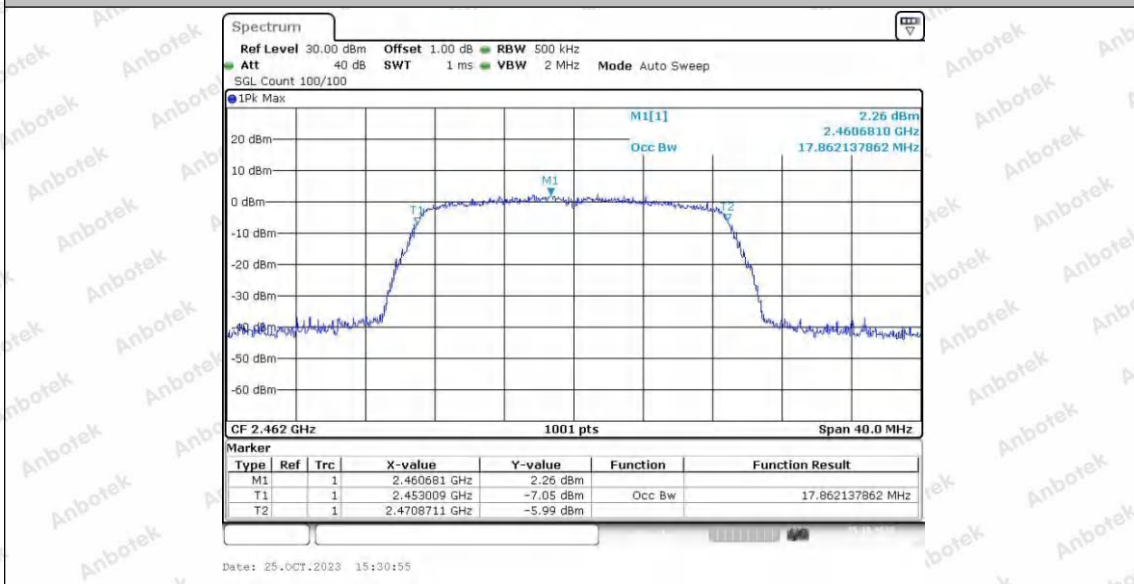
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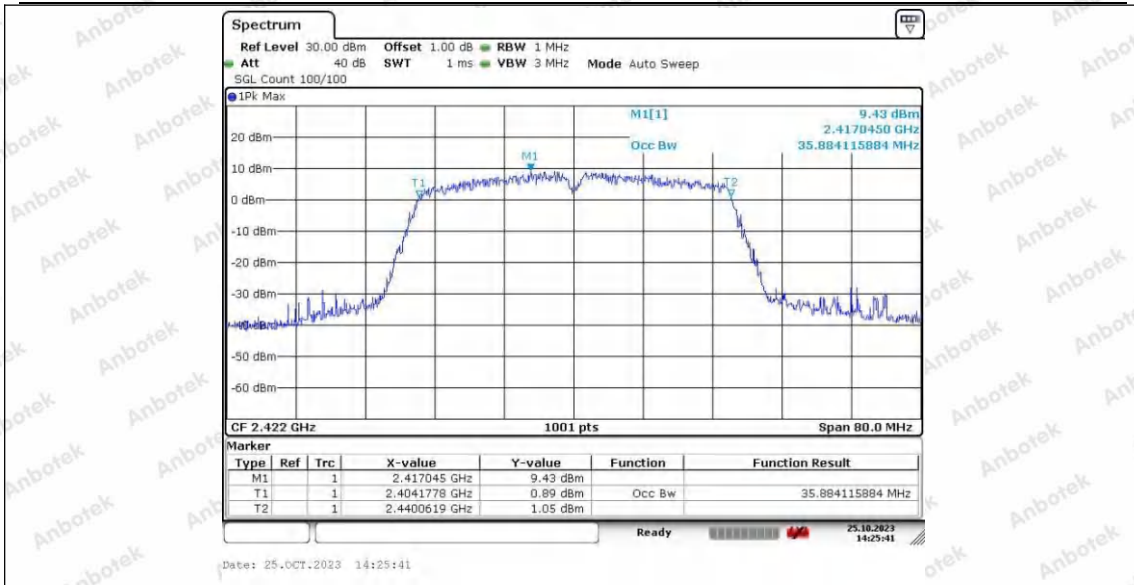


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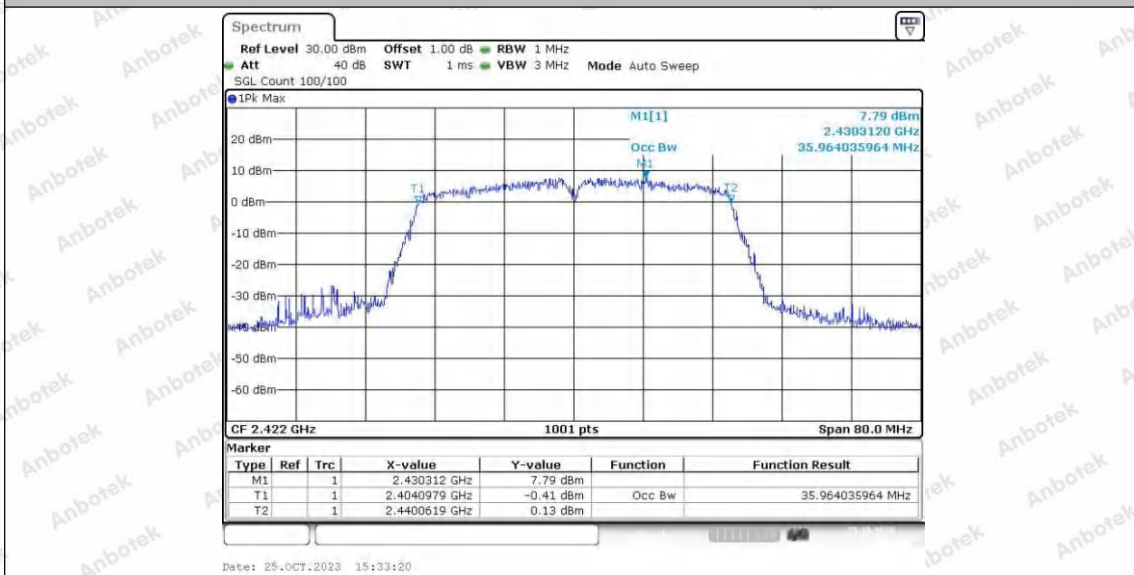


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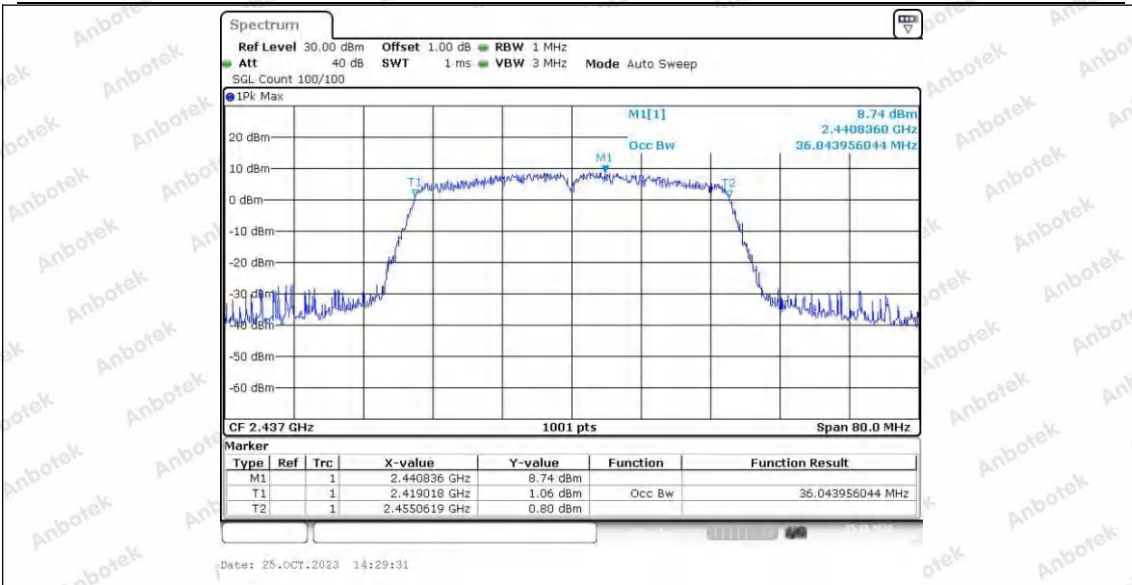
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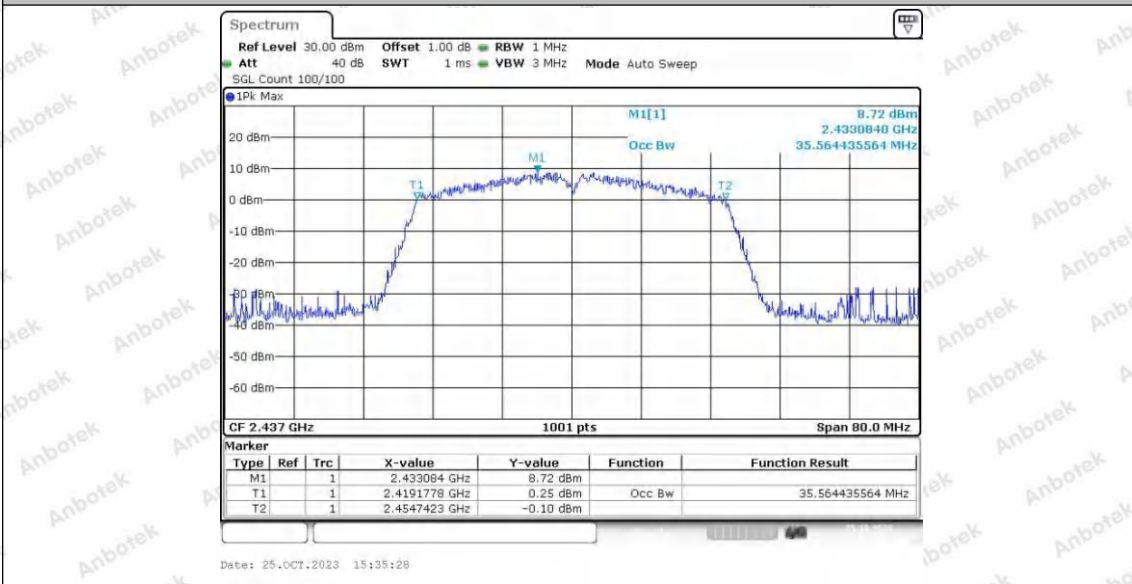
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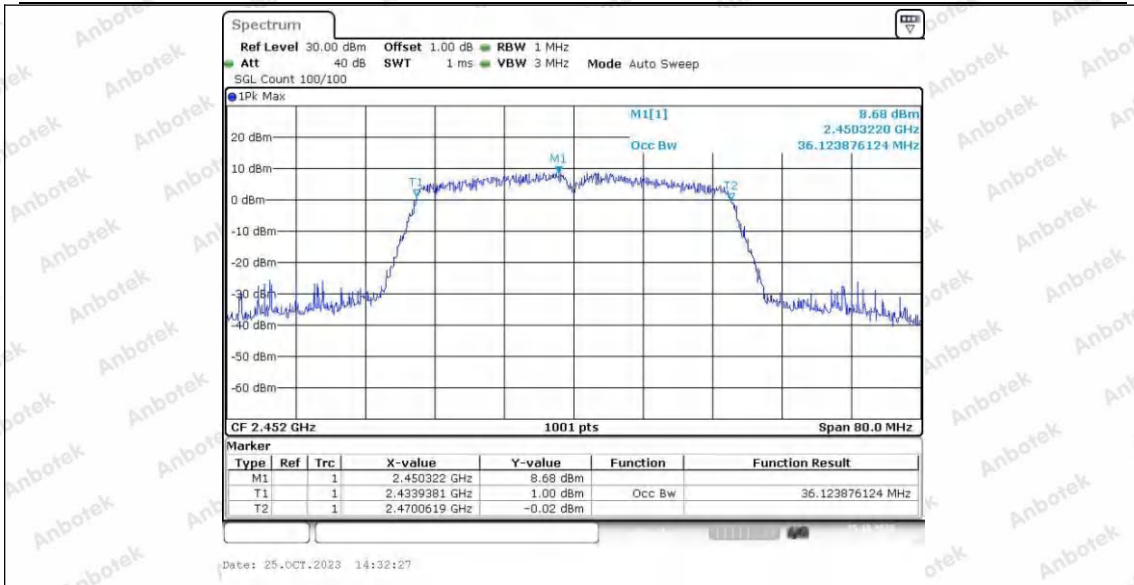


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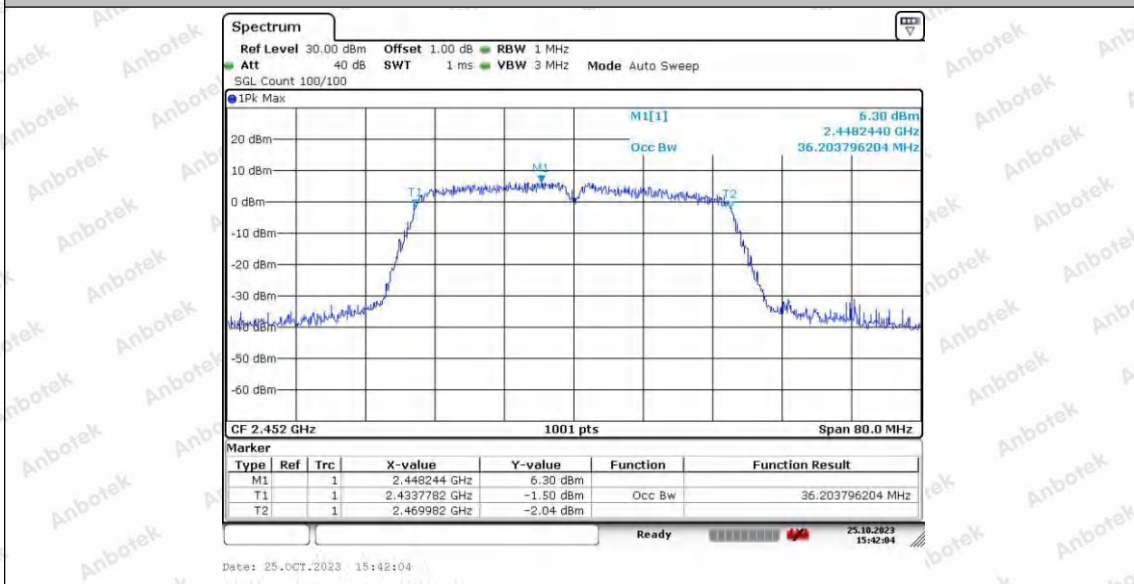


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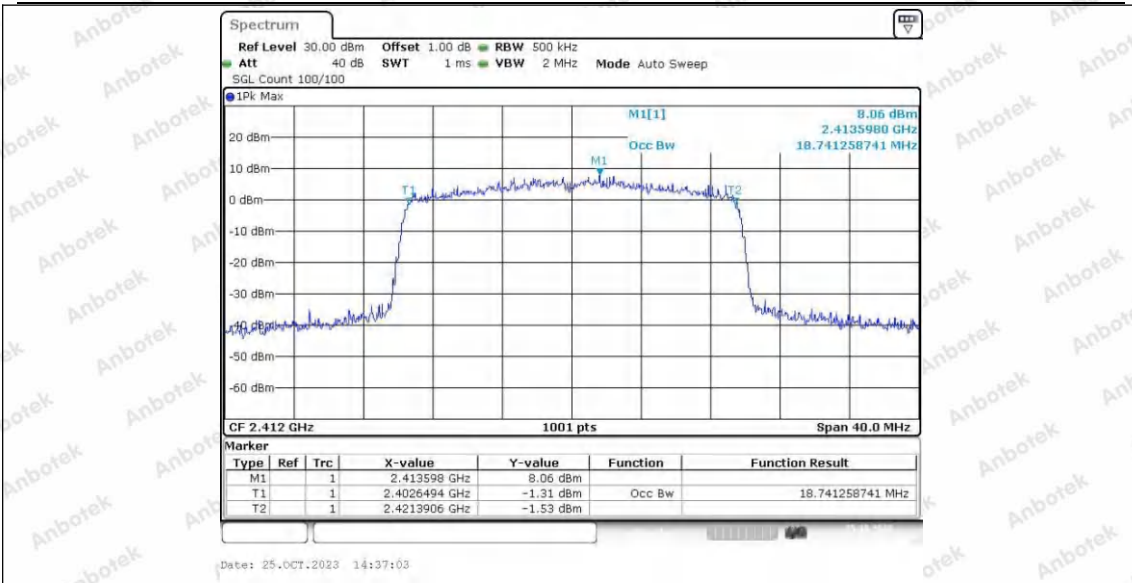


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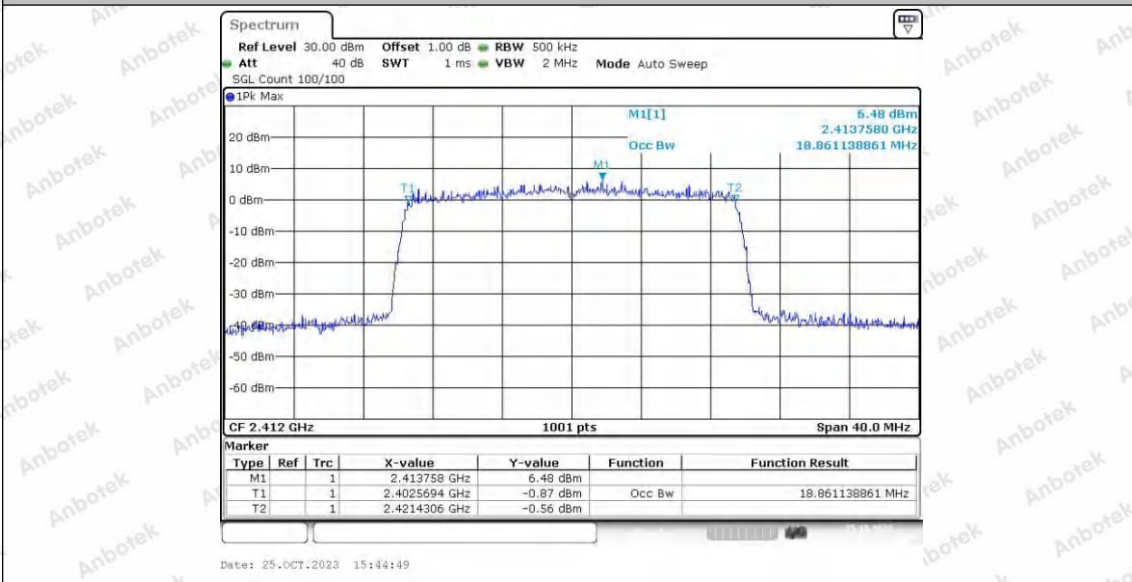


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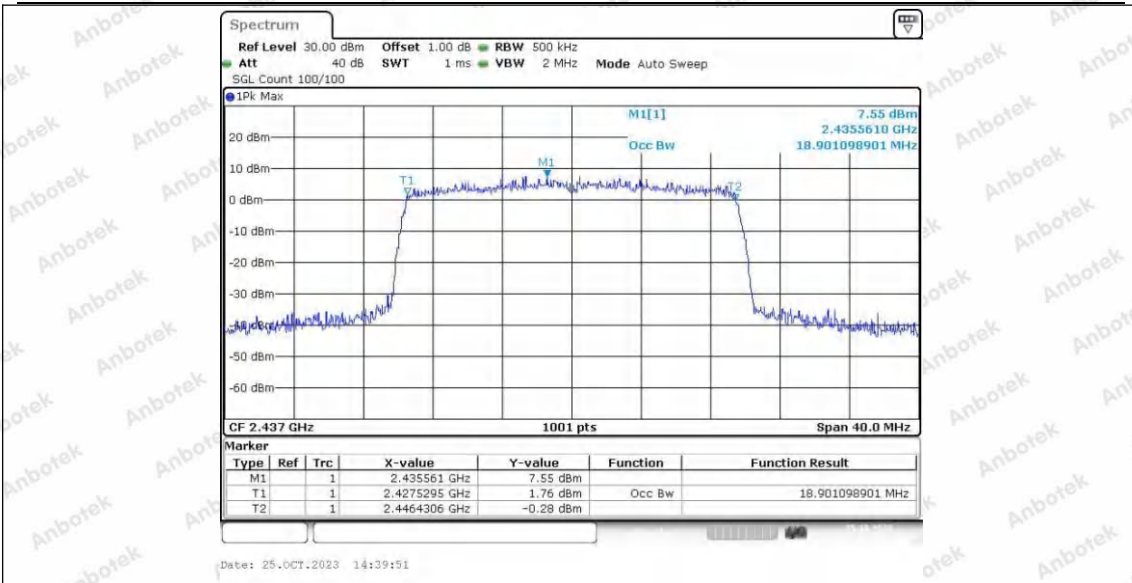


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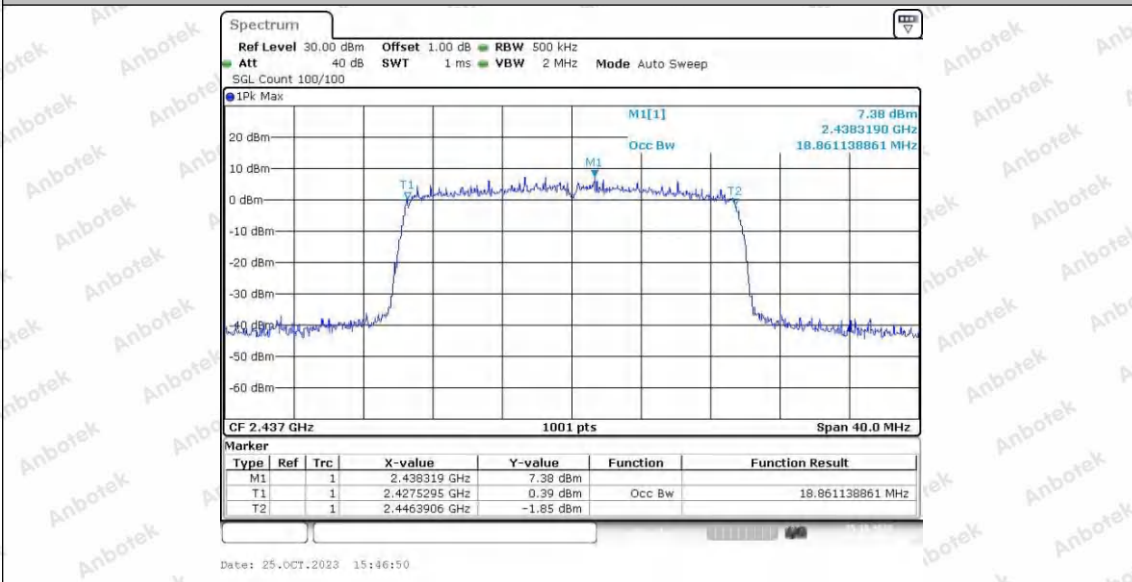


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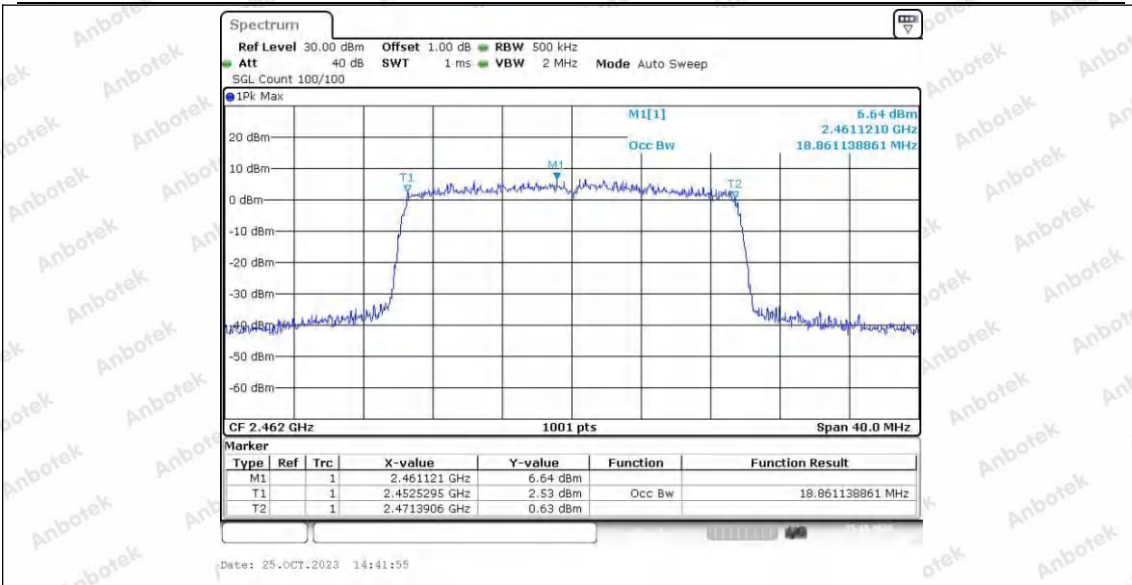


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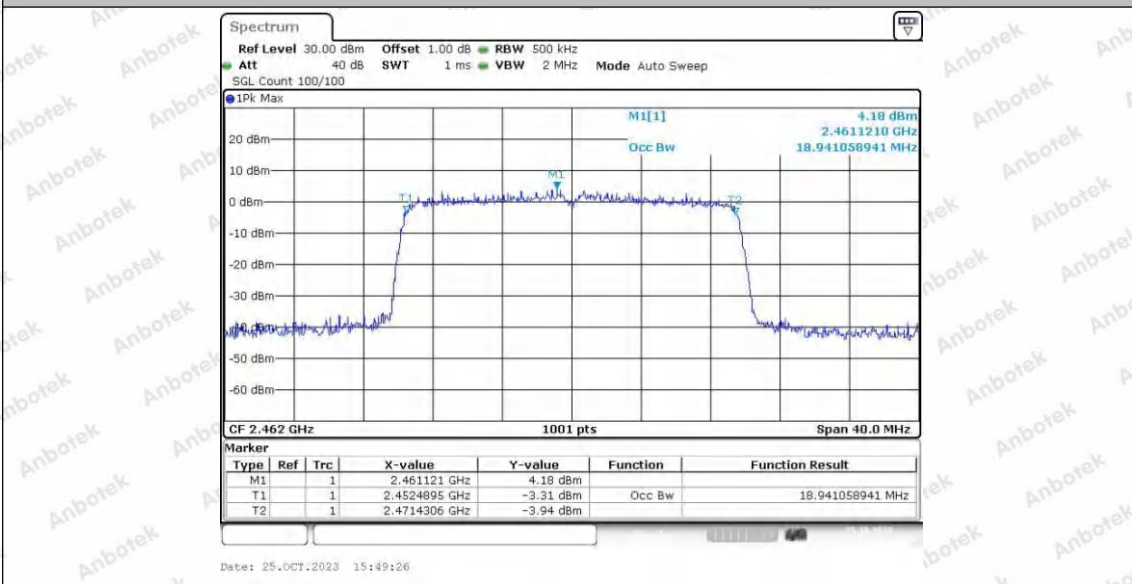


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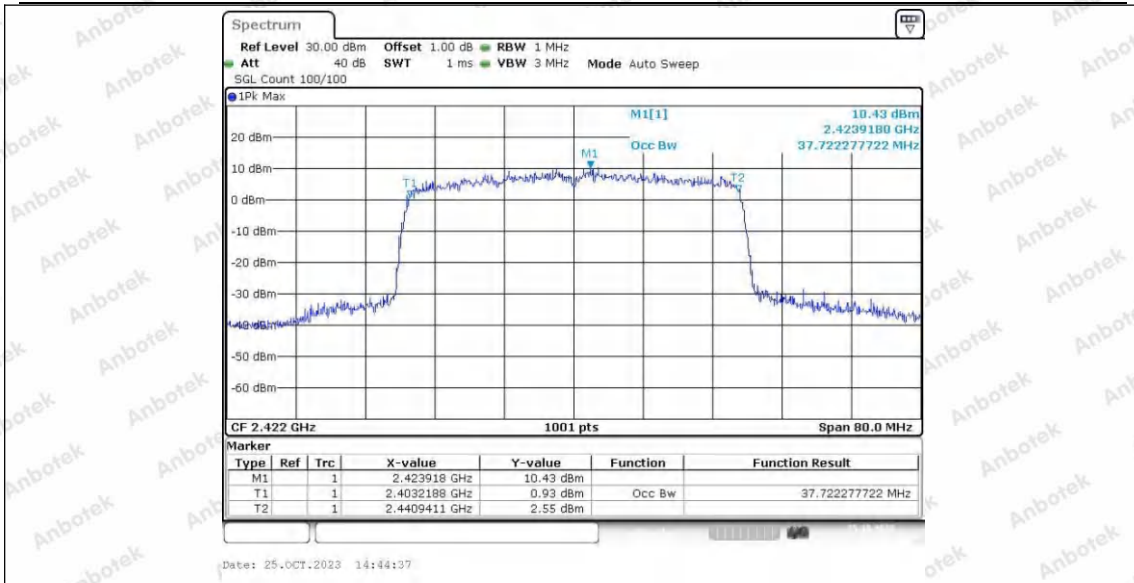


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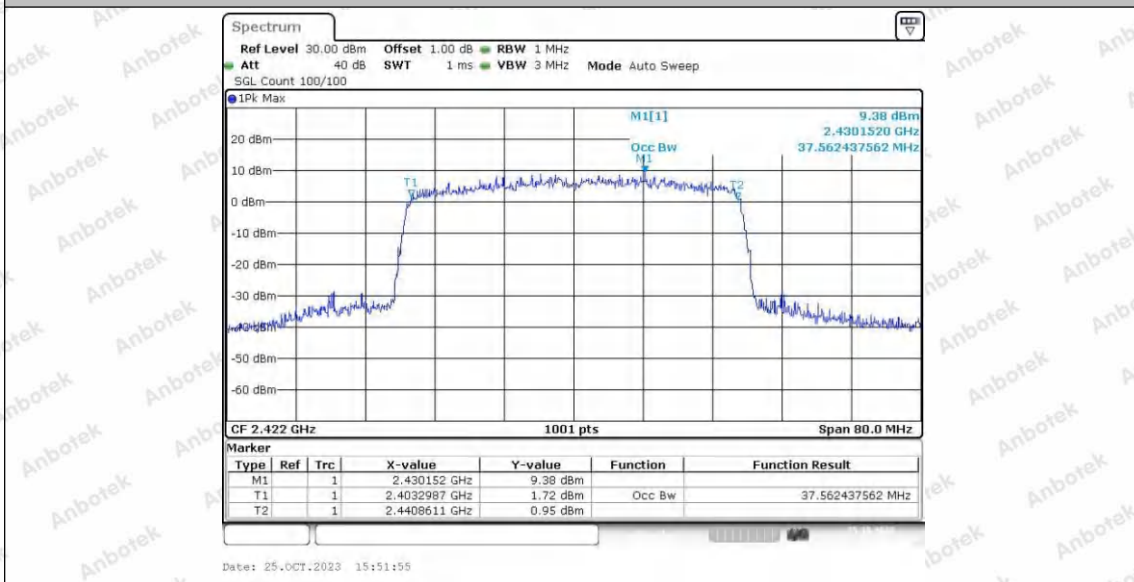


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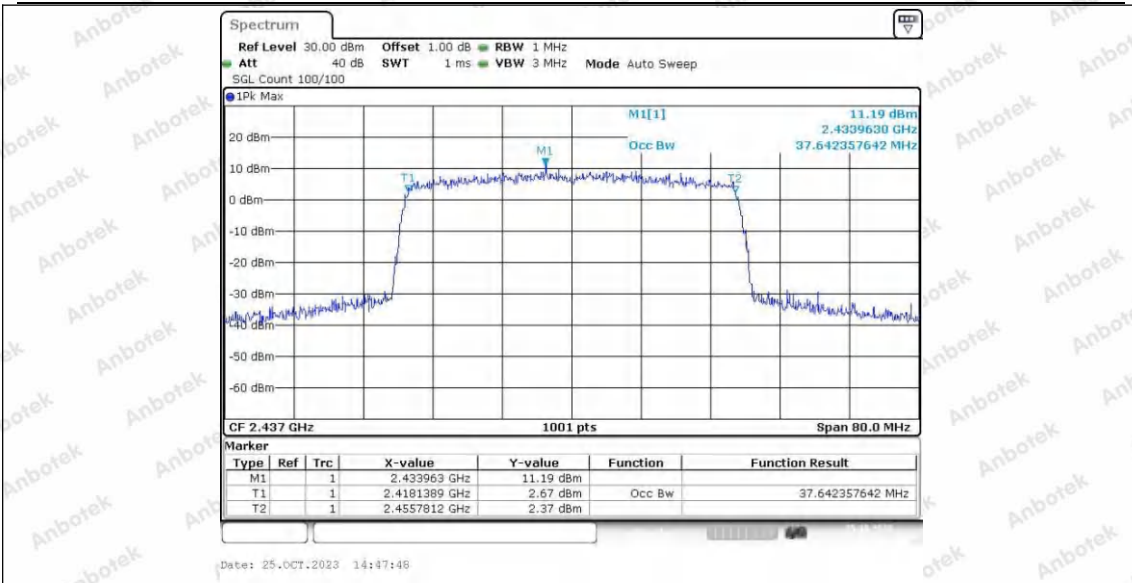
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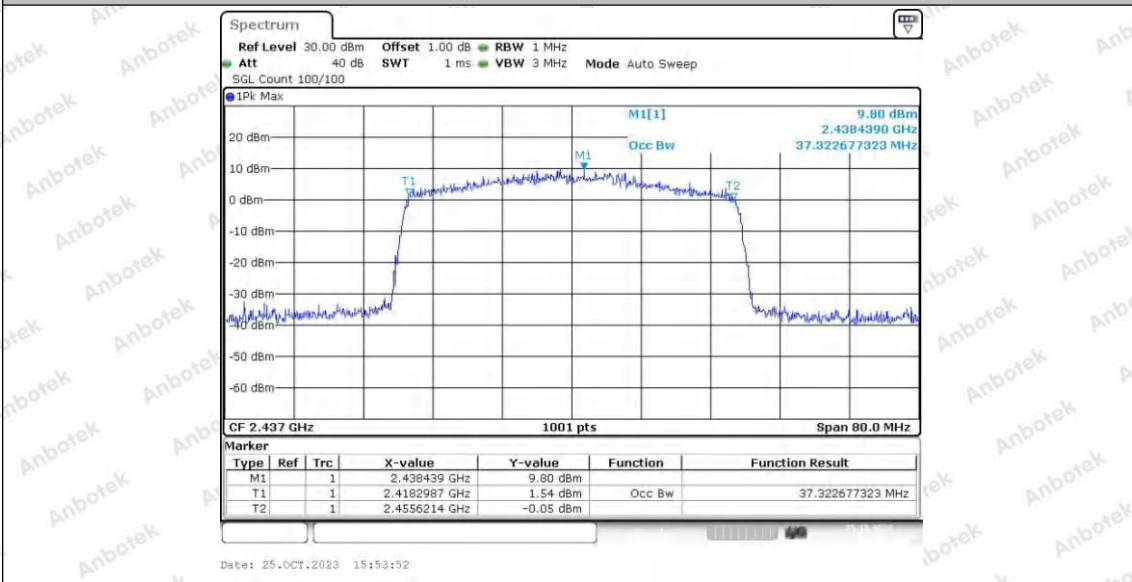
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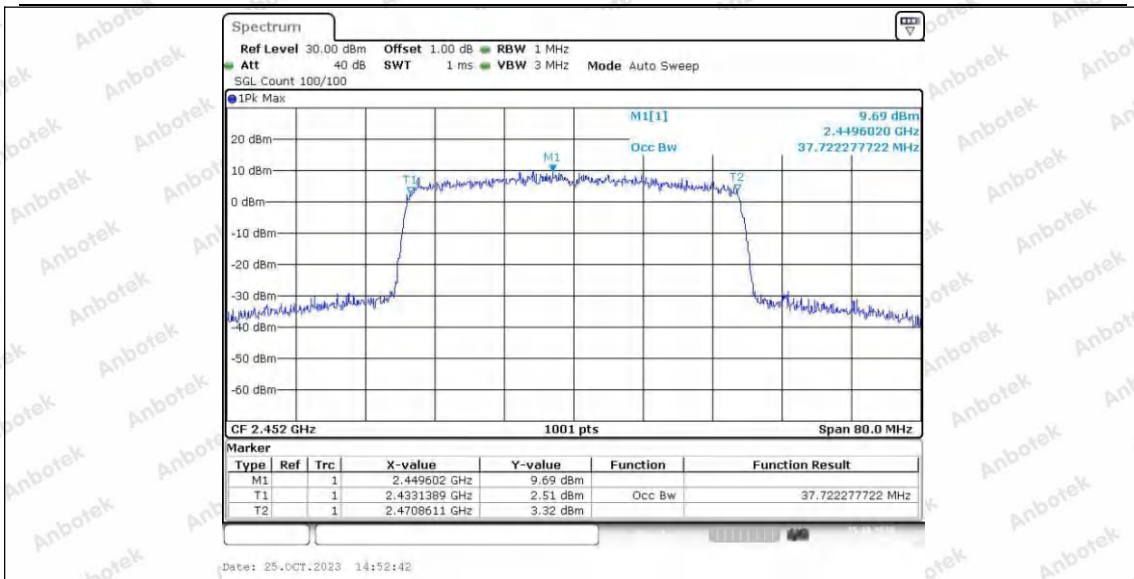
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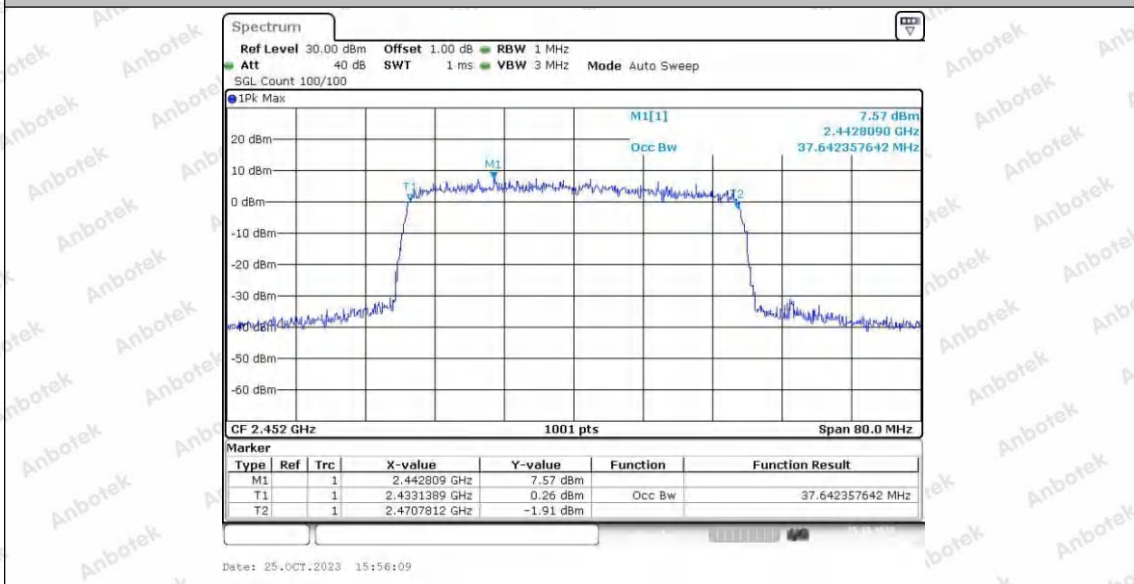
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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	19.18	≤30.00
	Ant2	2412	17.68	≤30.00
	Ant1	2437	19.45	≤30.00
	Ant2	2437	18.91	≤30.00
	Ant1	2462	18.62	≤30.00
	Ant2	2462	16.12	≤30.00
11G	Ant1	2412	19.53	≤30.00
	Ant2	2412	17.69	≤30.00
	Ant1	2437	19.55	≤30.00
	Ant2	2437	18.67	≤30.00
	Ant1	2462	18.91	≤30.00
	Ant2	2462	16.32	≤30.00
11N20SISO	Ant1	2412	19.30	≤30.00
	Ant2	2412	17.72	≤30.00
	Ant1	2437	19.62	≤30.00
	Ant2	2437	18.53	≤30.00
	Ant1	2462	18.99	≤30.00
	Ant2	2462	16.29	≤30.00
11N40SISO	Ant1	2422	19.63	≤30.00
	Ant2	2422	18.34	≤30.00
	Ant1	2437	19.64	≤30.00
	Ant2	2437	18.98	≤30.00
	Ant1	2452	19.36	≤30.00
	Ant2	2452	16.99	≤30.00
11AX20SISO	Ant1	2412	19.76	≤30.00
	Ant2	2412	18.21	≤30.00
	Ant1	2437	20.09	≤30.00
	Ant2	2437	19.11	≤30.00
	Ant1	2462	19.41	≤30.00
	Ant2	2462	16.79	≤30.00
11AX40SISO	Ant1	2422	20.01	≤30.00
	Ant2	2422	18.60	≤30.00
	Ant1	2437	20.00	≤30.00
	Ant2	2437	19.23	≤30.00
	Ant1	2452	19.64	≤30.00

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	Ant2	2452	17.23	≤30.00
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.65	≤8.00	PASS
	Ant2	2412	-7.7	≤8.00	PASS
	Ant1	2437	-6.05	≤8.00	PASS
	Ant2	2437	-7.07	≤8.00	PASS
	Ant1	2462	-6.83	≤8.00	PASS
	Ant2	2462	-9.5	≤8.00	PASS
11G	Ant1	2412	-12.09	≤8.00	PASS
	Ant2	2412	-14.65	≤8.00	PASS
	Ant1	2437	-12.56	≤8.00	PASS
	Ant2	2437	-13.07	≤8.00	PASS
	Ant1	2462	-13.45	≤8.00	PASS
	Ant2	2462	-15.81	≤8.00	PASS
11N20SISO	Ant1	2412	-12.22	≤8.00	PASS
	Ant2	2412	-13.88	≤8.00	PASS
	Ant1	2437	-13.22	≤8.00	PASS
	Ant2	2437	-14.27	≤8.00	PASS
	Ant1	2462	-13.09	≤8.00	PASS
	Ant2	2462	-15.76	≤8.00	PASS
11N40SISO	Ant1	2422	-14.33	≤8.00	PASS
	Ant2	2422	-14.39	≤8.00	PASS
	Ant1	2437	-13.04	≤8.00	PASS
	Ant2	2437	-14.24	≤8.00	PASS
	Ant1	2452	-14.59	≤8.00	PASS
	Ant2	2452	-17.02	≤8.00	PASS
11AX20SISO	Ant1	2412	-13.46	≤8.00	PASS
	Ant2	2412	-15.81	≤8.00	PASS
	Ant1	2437	-13.47	≤8.00	PASS
	Ant2	2437	-14.07	≤8.00	PASS
	Ant1	2462	-14.05	≤8.00	PASS
	Ant2	2462	-18	≤8.00	PASS
11AX40SISO	Ant1	2422	-14.55	≤8.00	PASS
	Ant2	2422	-16.48	≤8.00	PASS
	Ant1	2437	-15.01	≤8.00	PASS
	Ant2	2437	-14.46	≤8.00	PASS
	Ant1	2452	-14.5	≤8.00	PASS
	Ant2	2452	-17.47	≤8.00	PASS

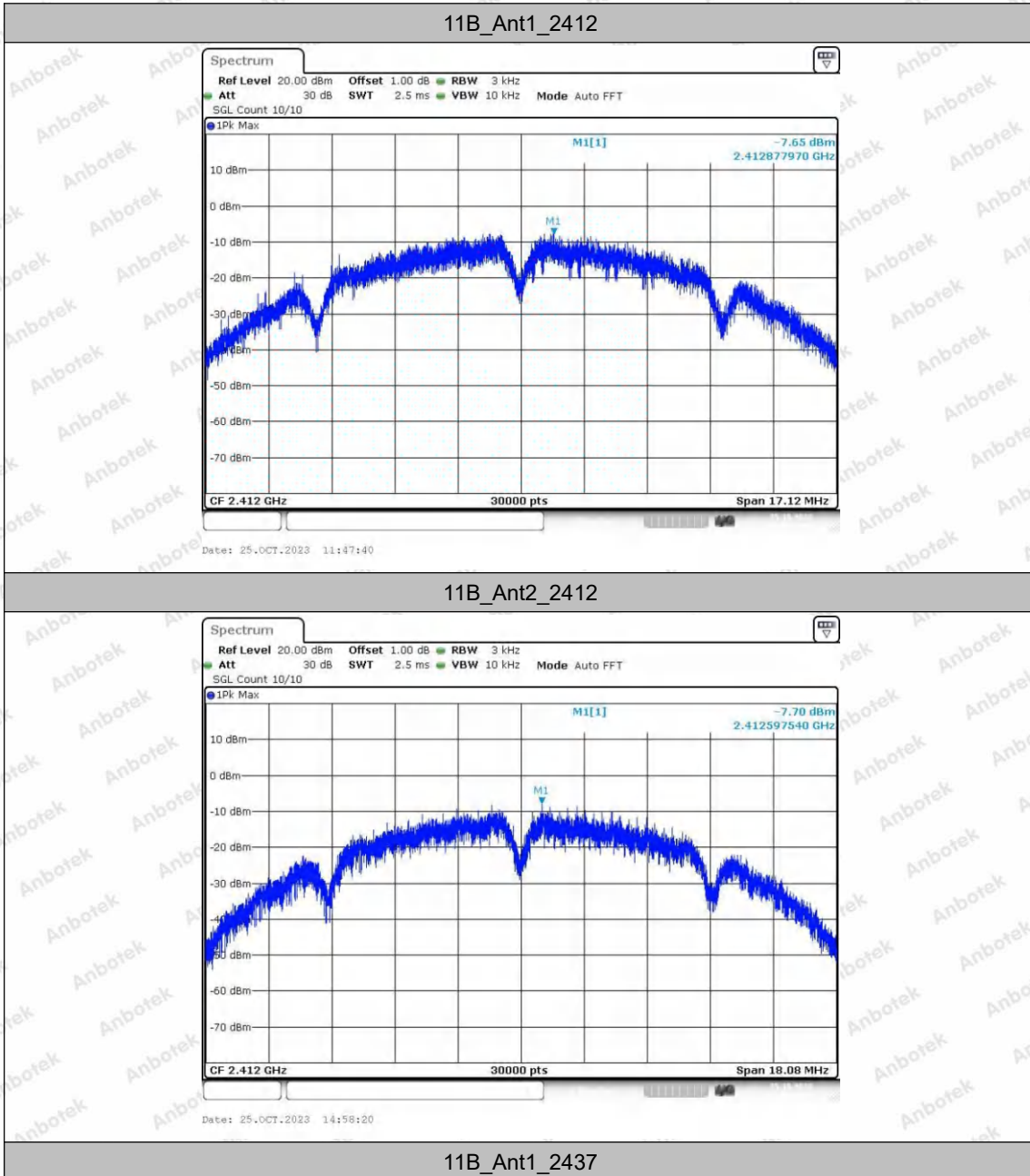
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Test Graphs



11B_Ant1_2437

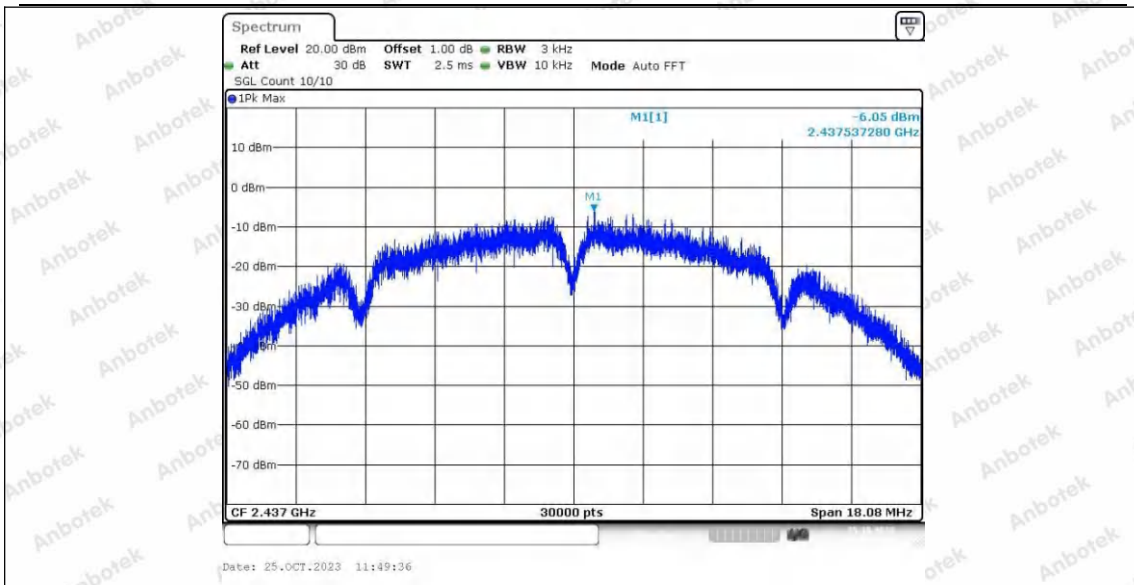
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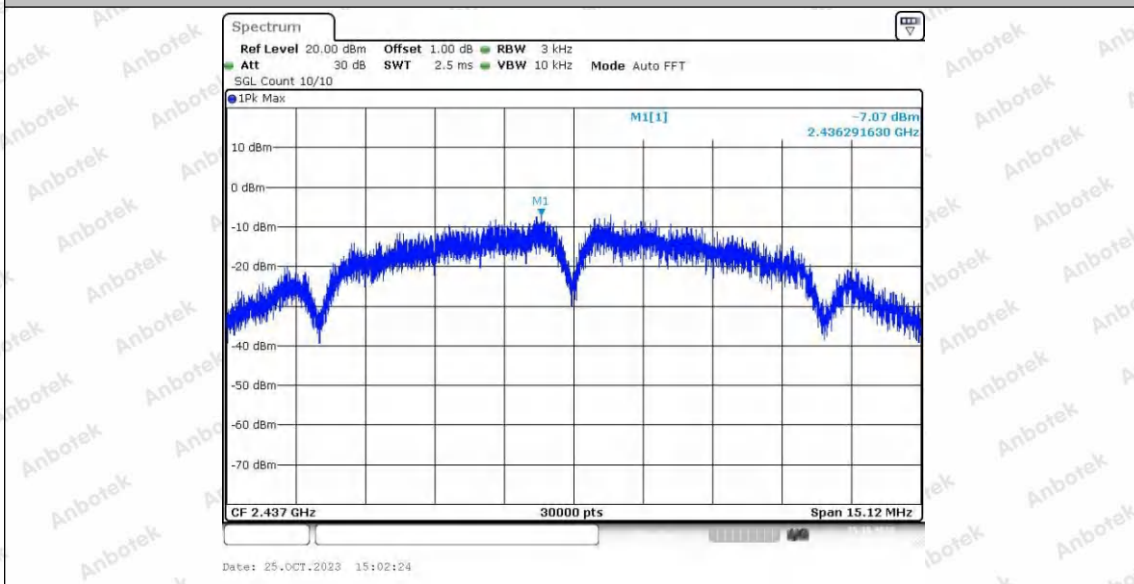


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11B_Ant2_2437



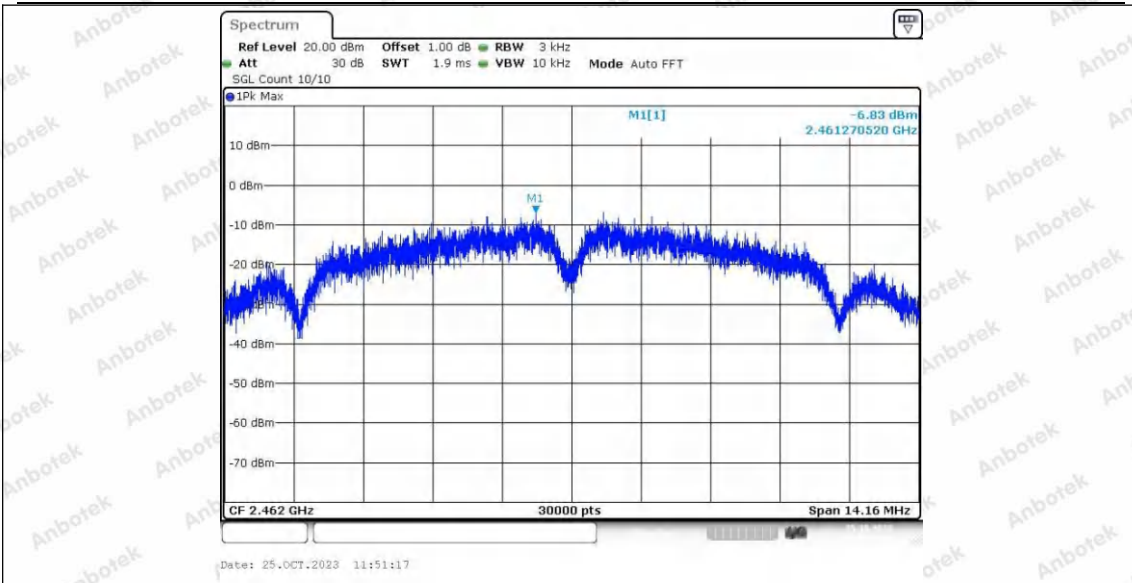
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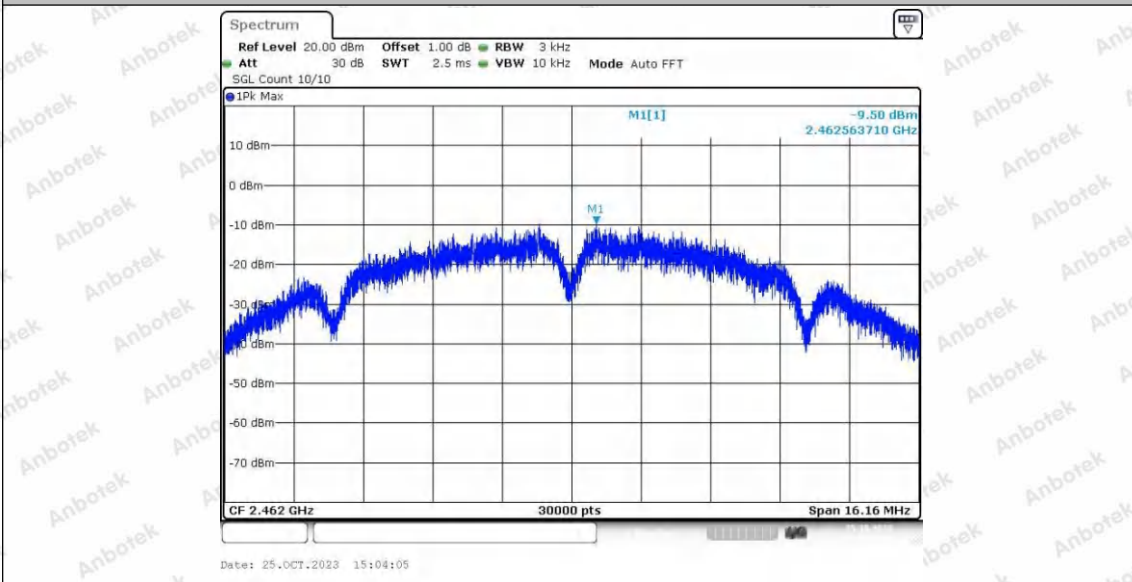
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11B_Ant2_2462



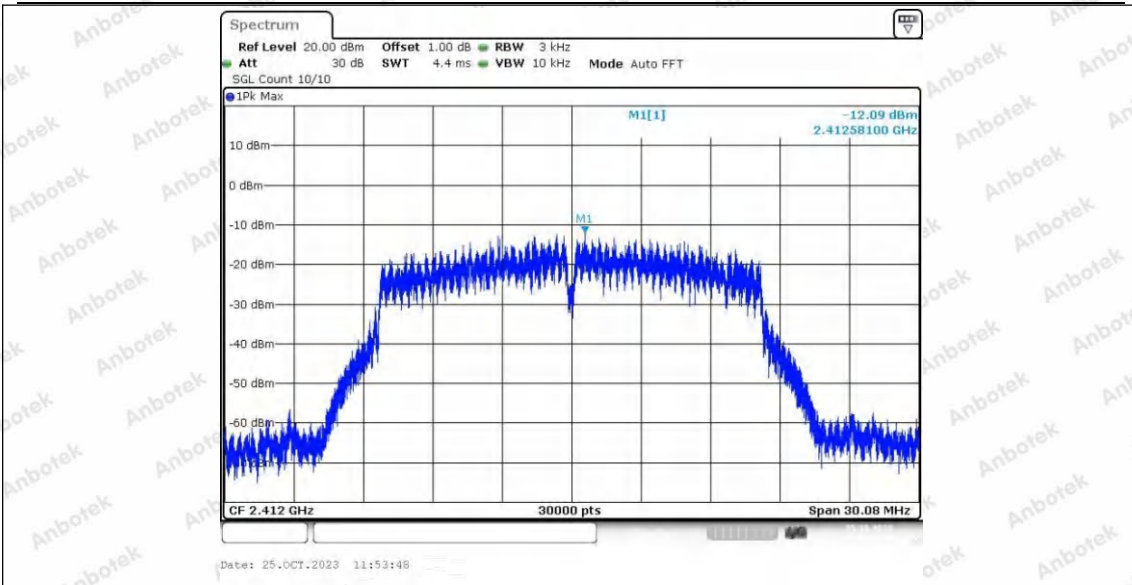
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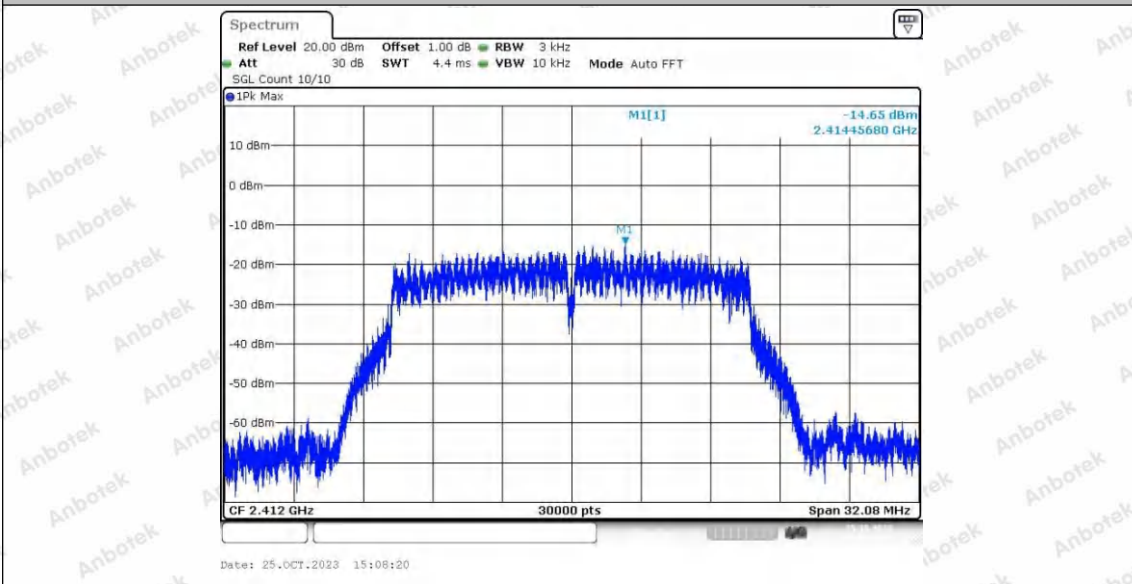
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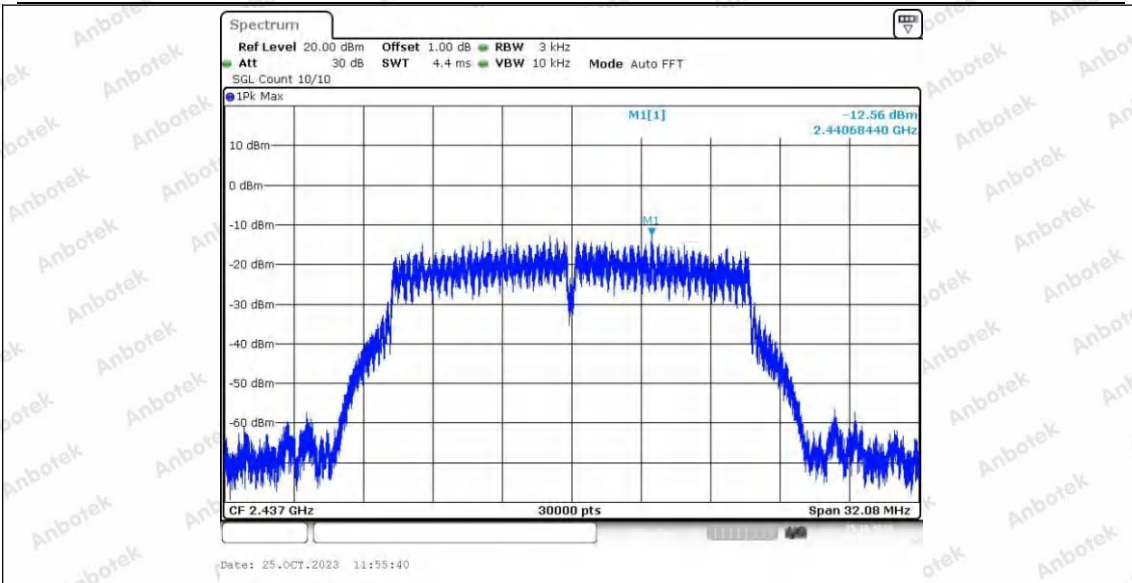
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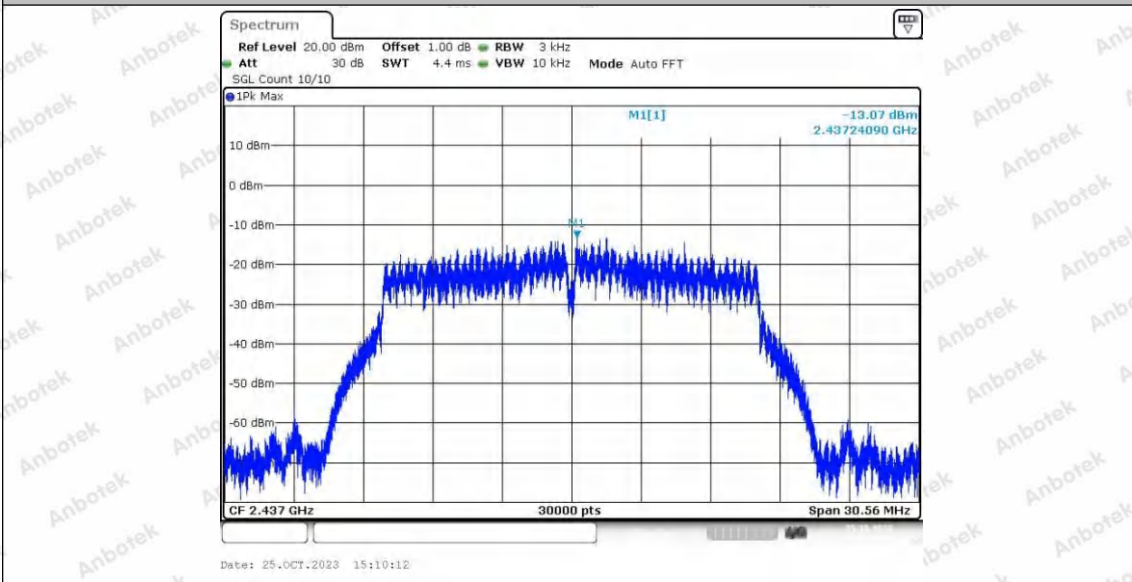
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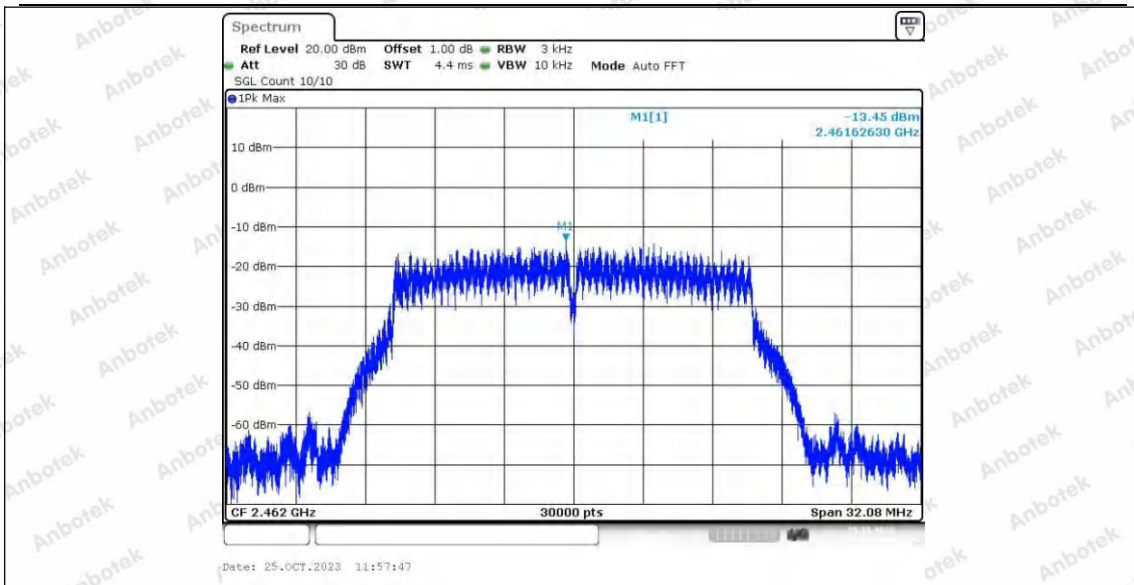
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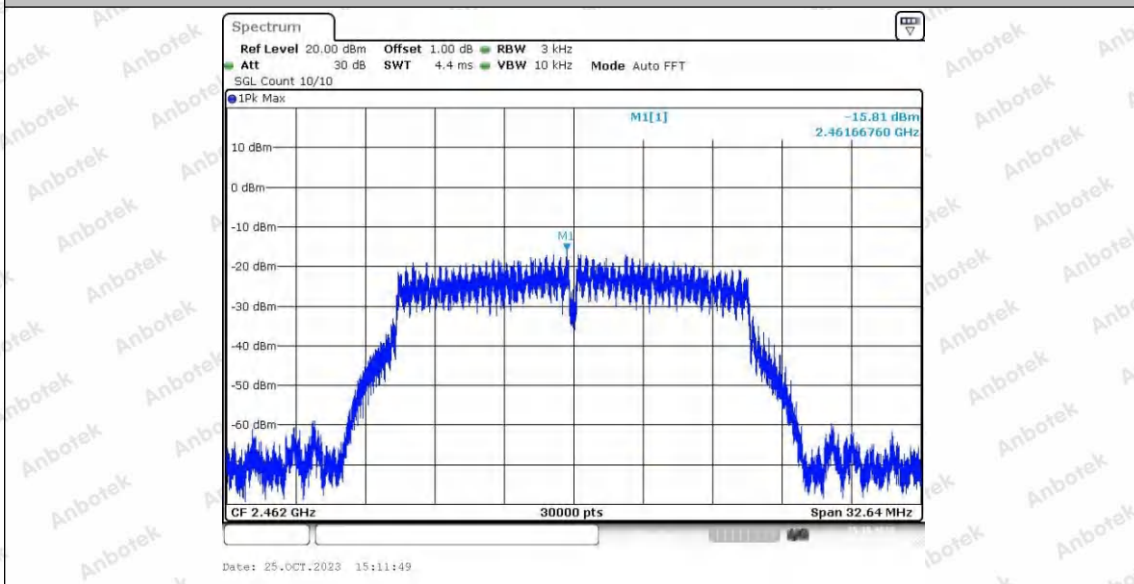
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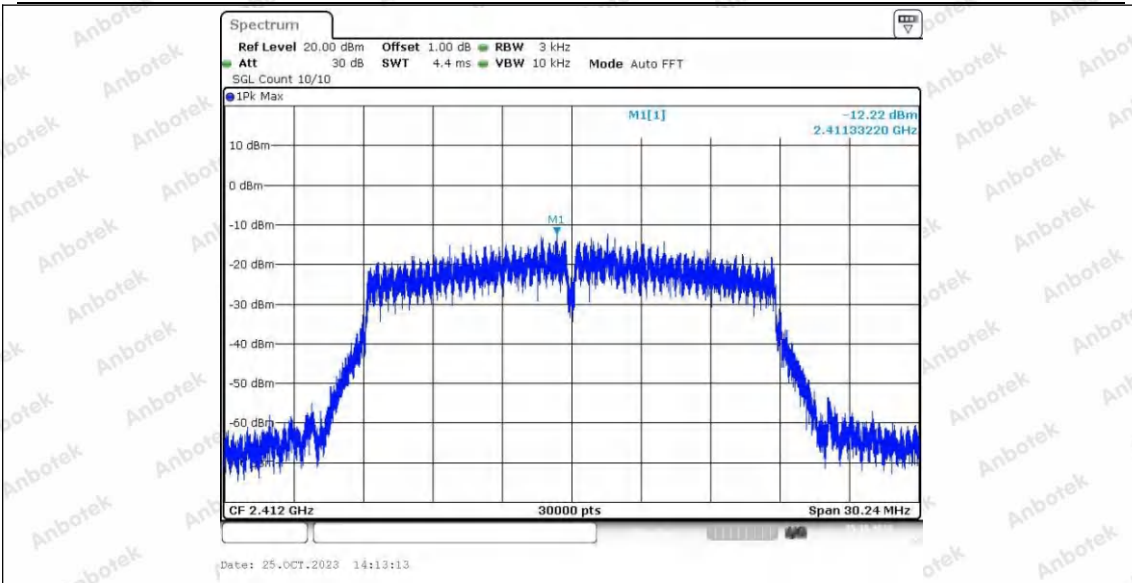
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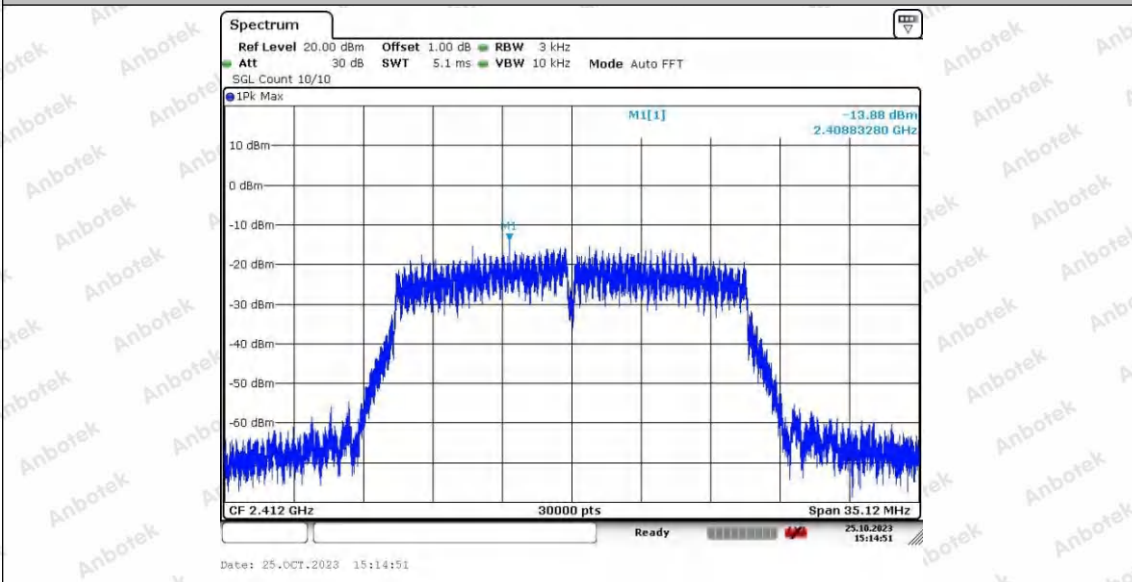
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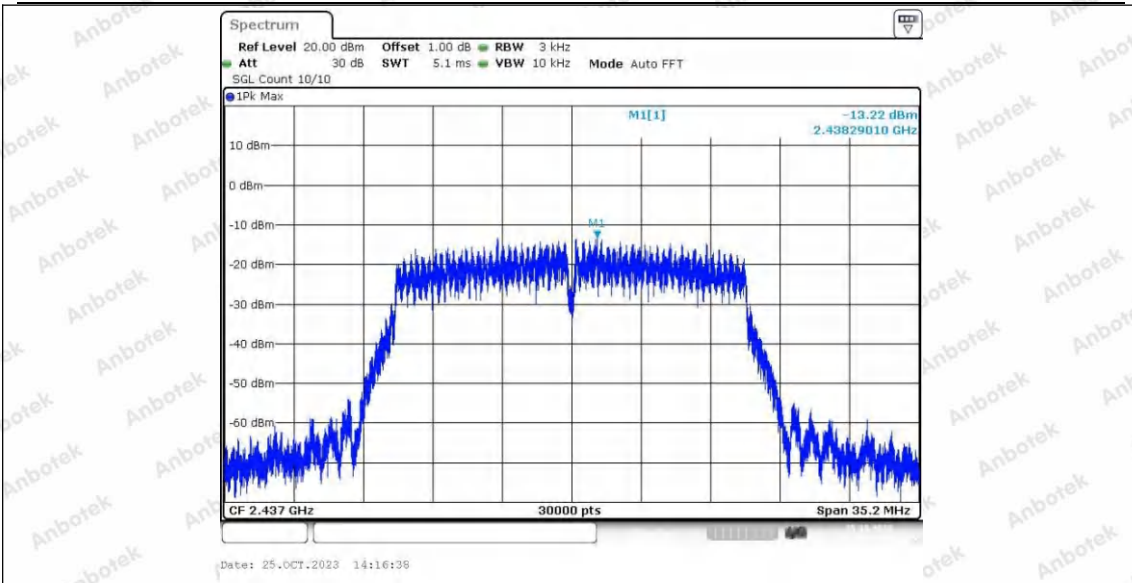
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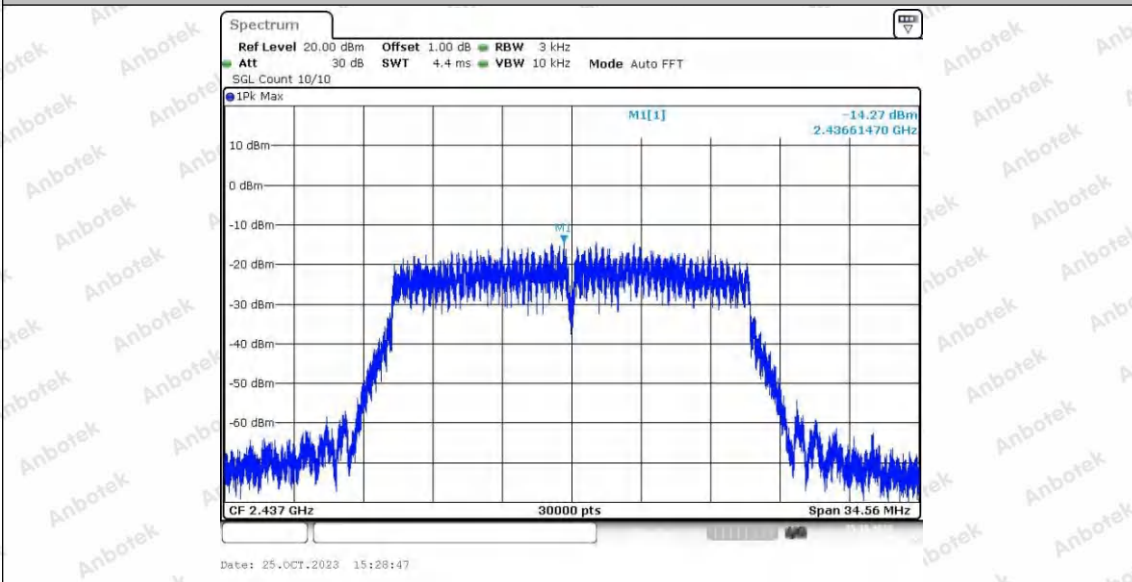
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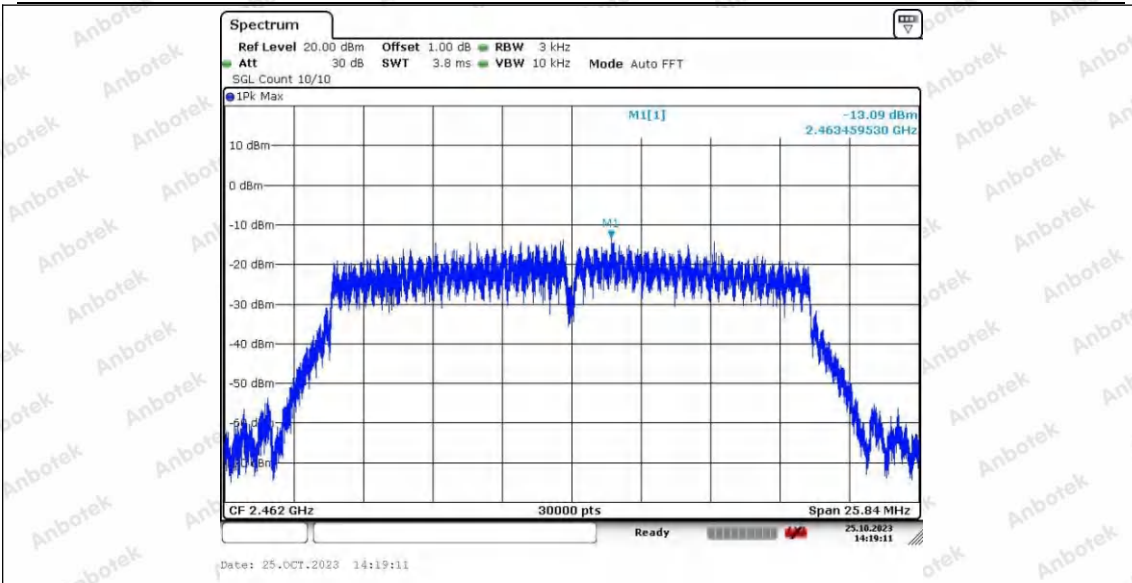
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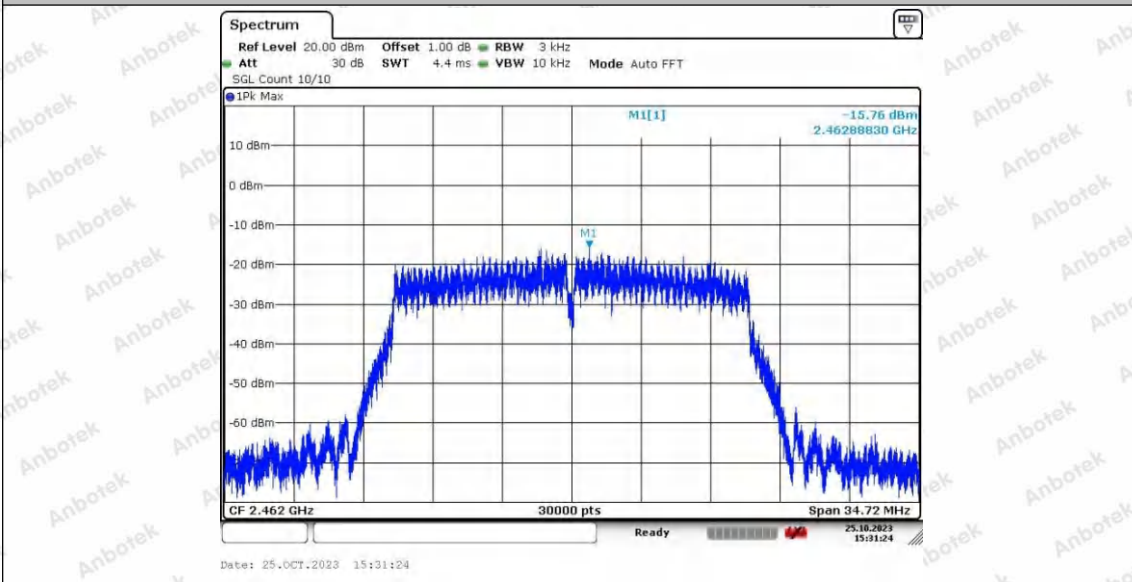
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11N40SISO_Ant1_2422

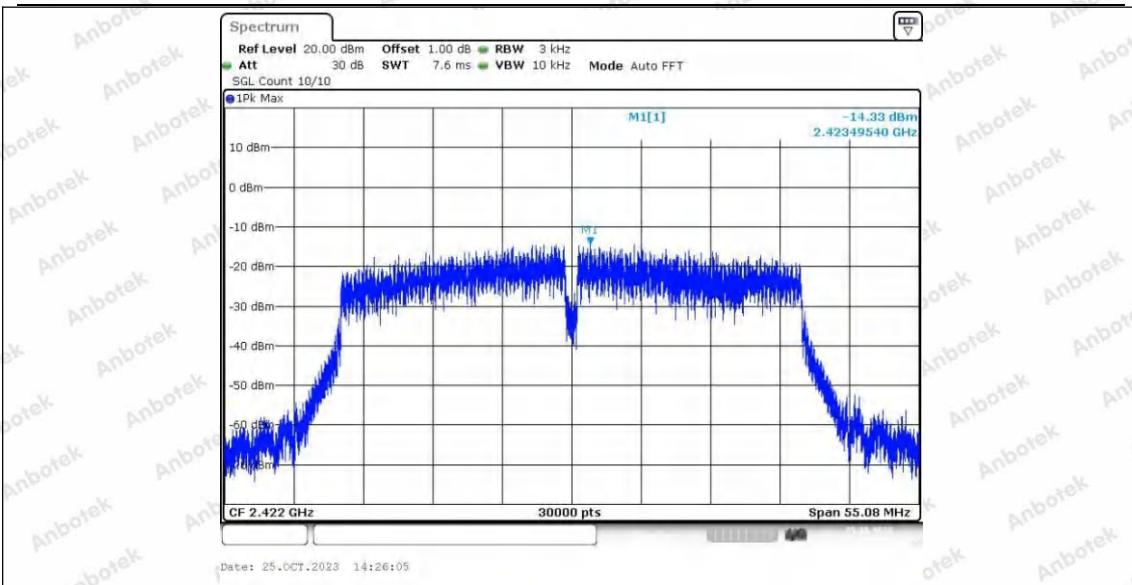
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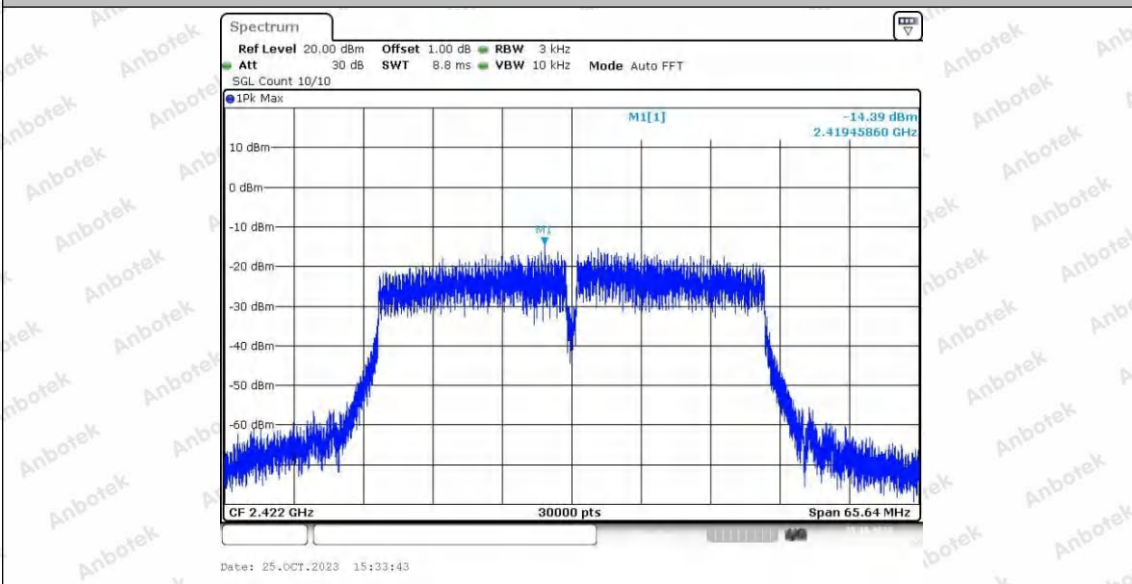


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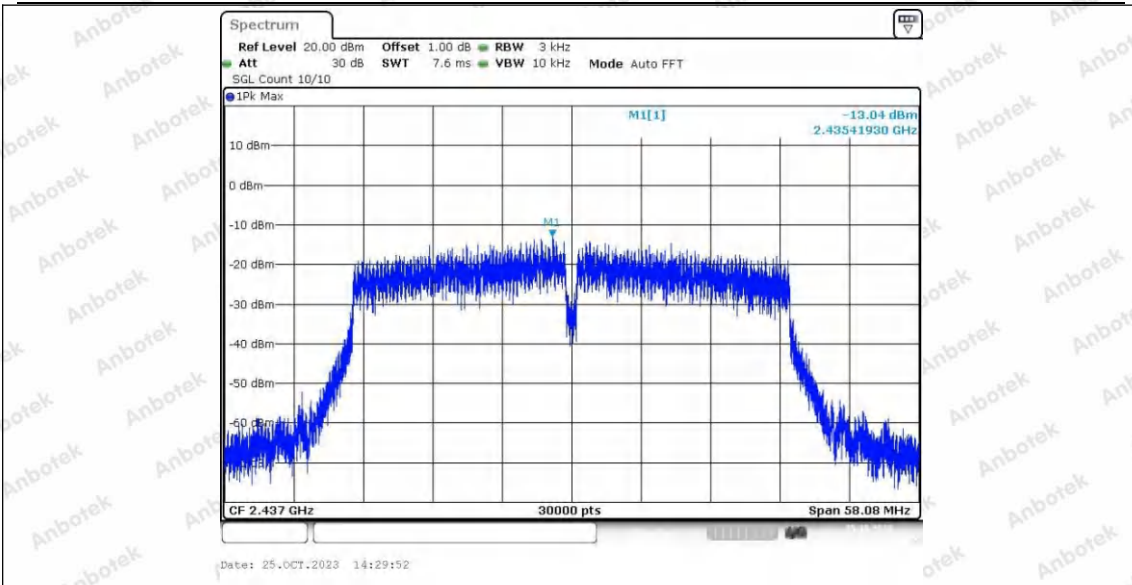
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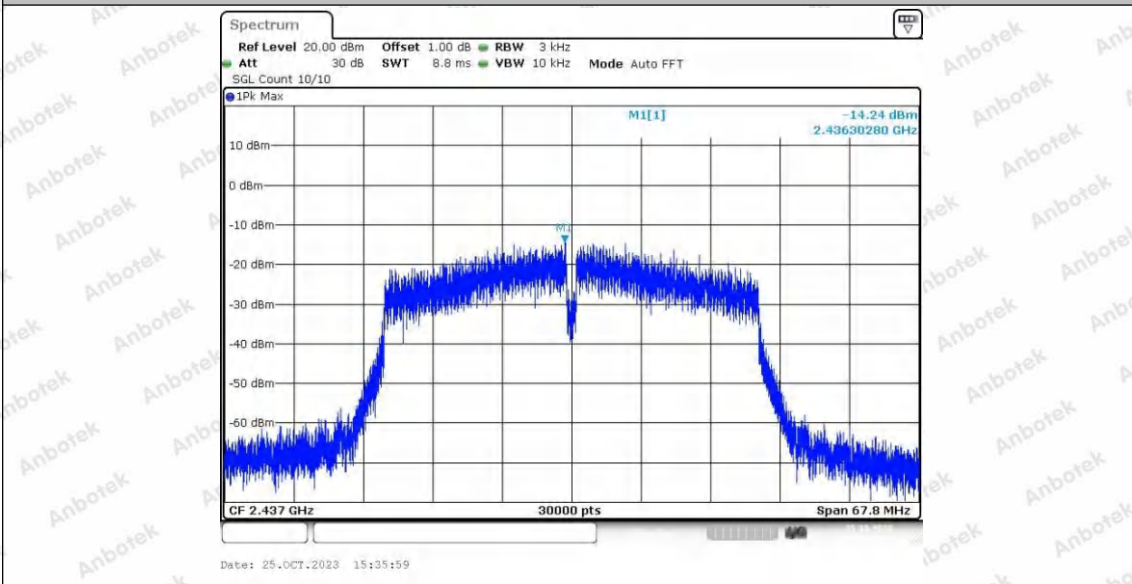
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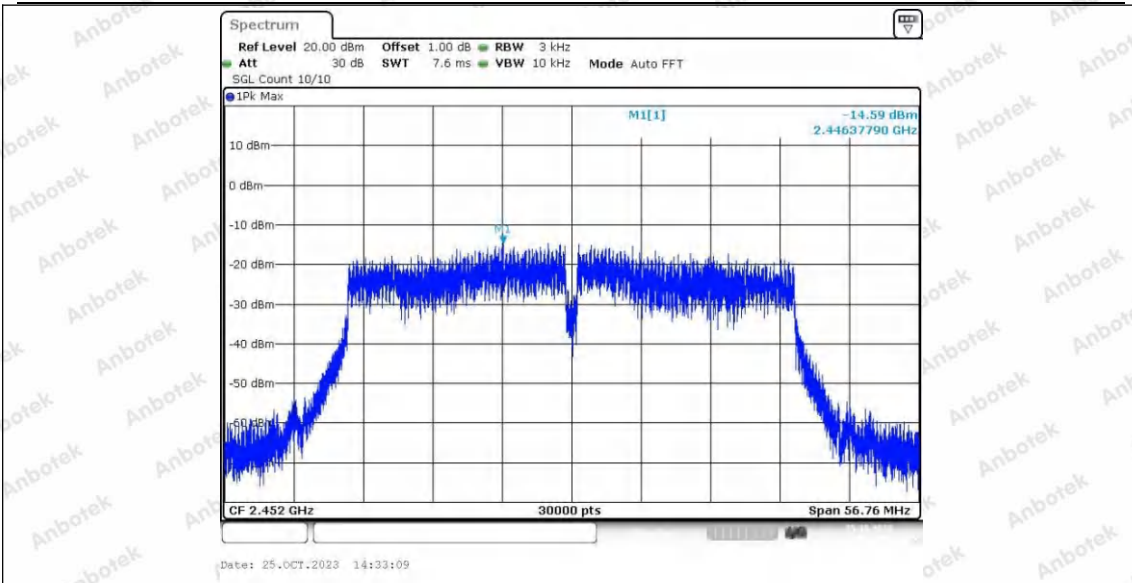


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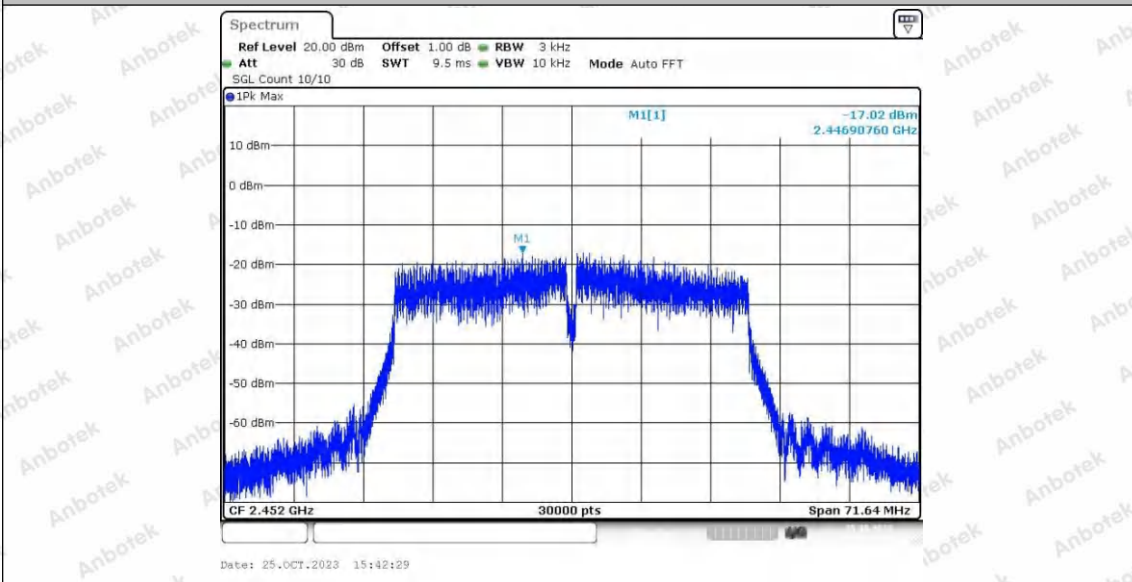


11N40SISO_Ant1_2452





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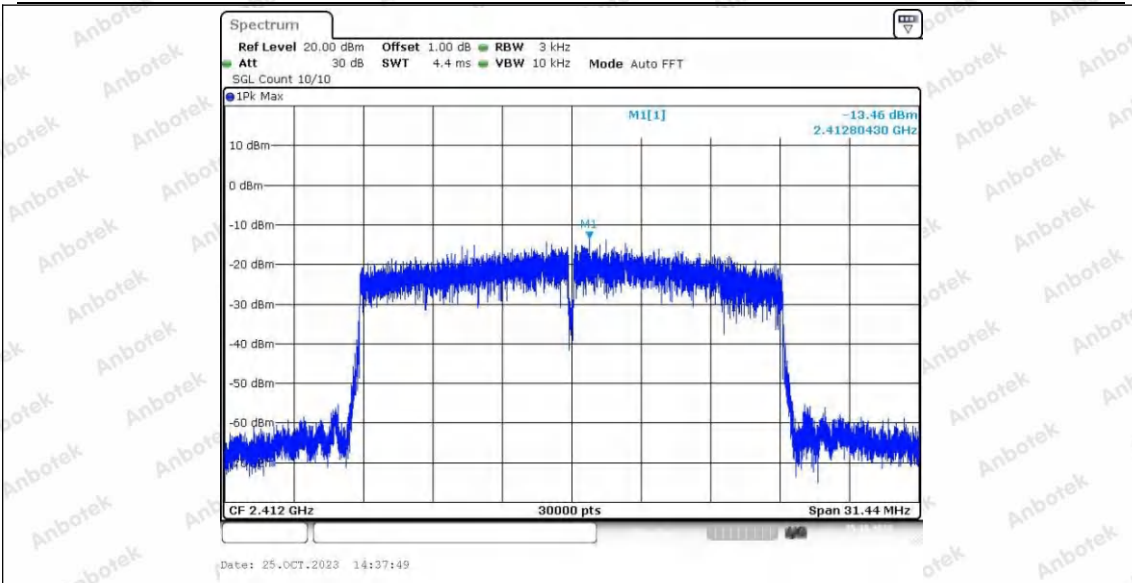
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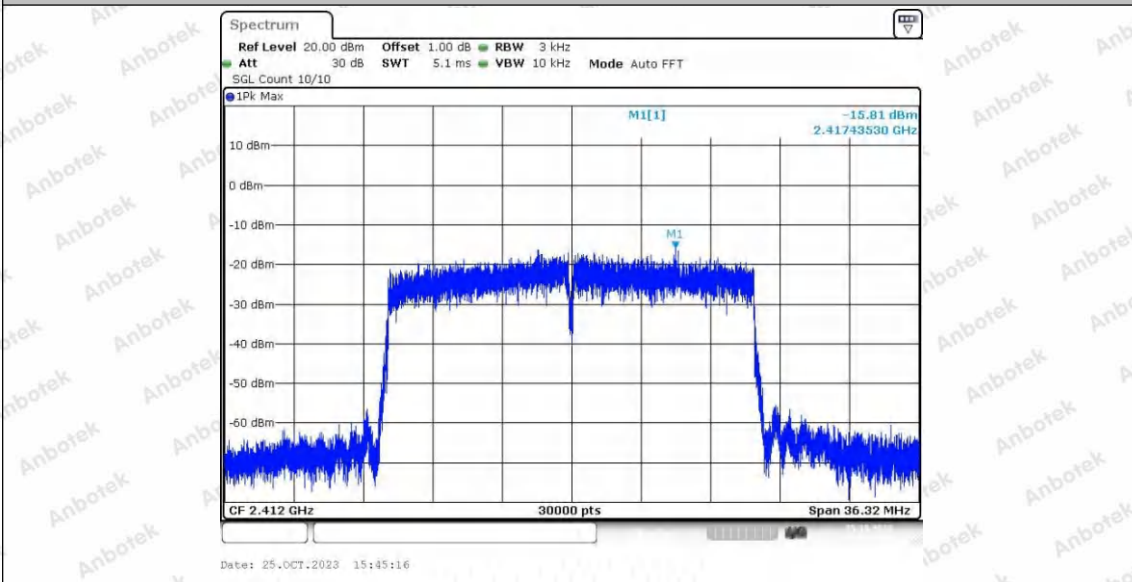
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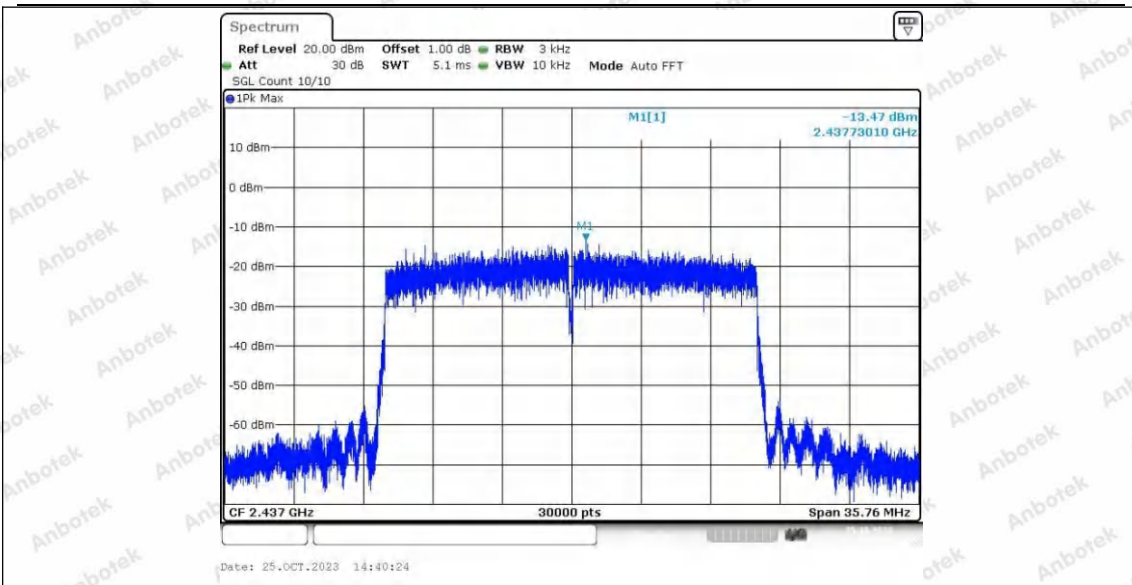
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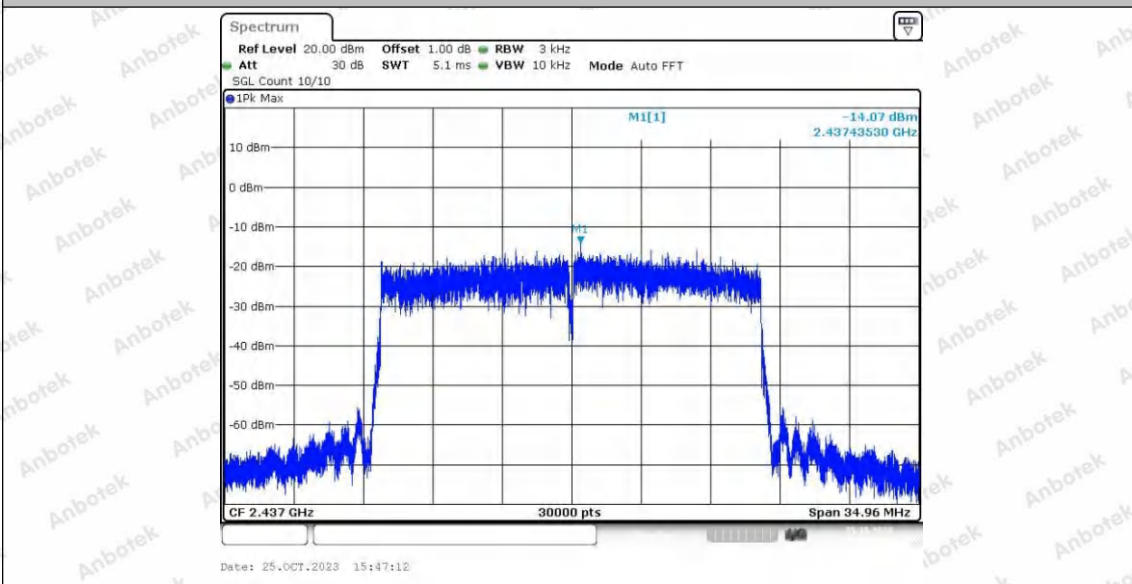
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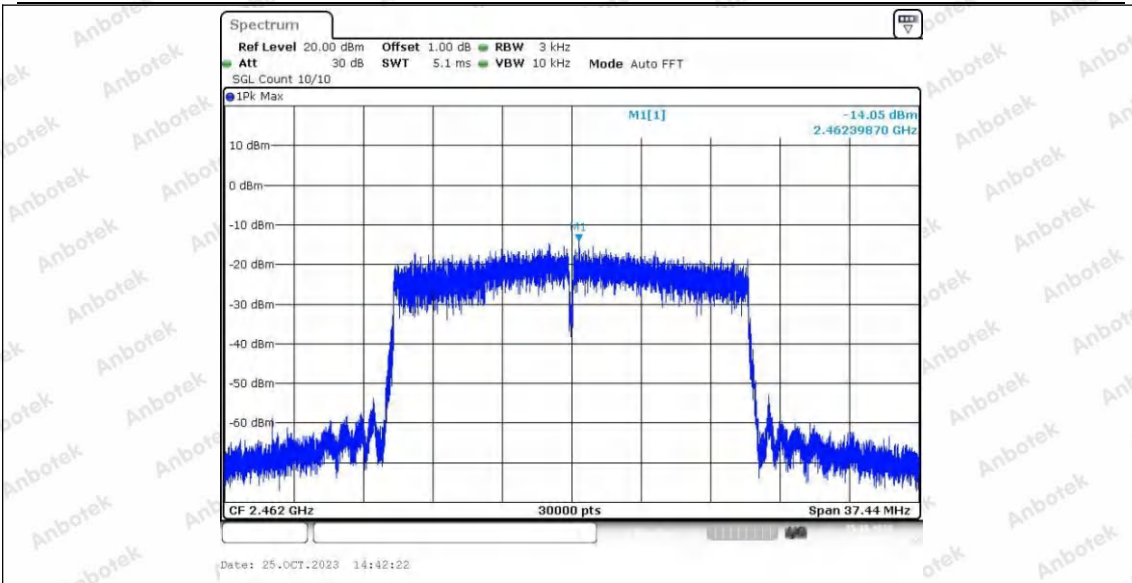
11AX20SISO_Ant1_2462

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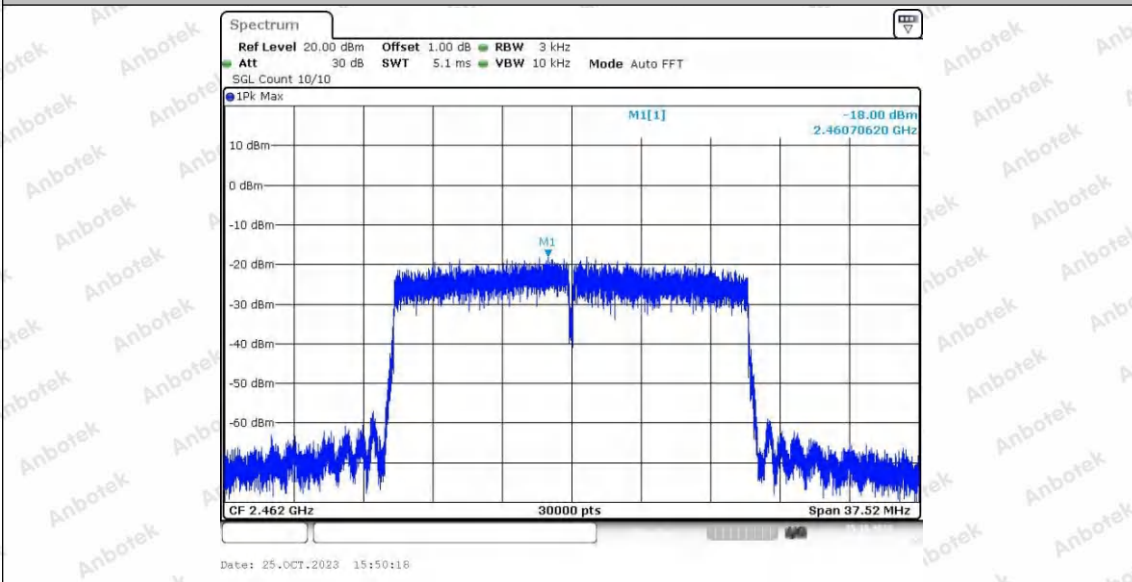
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11AX20SISO_Ant2_2462



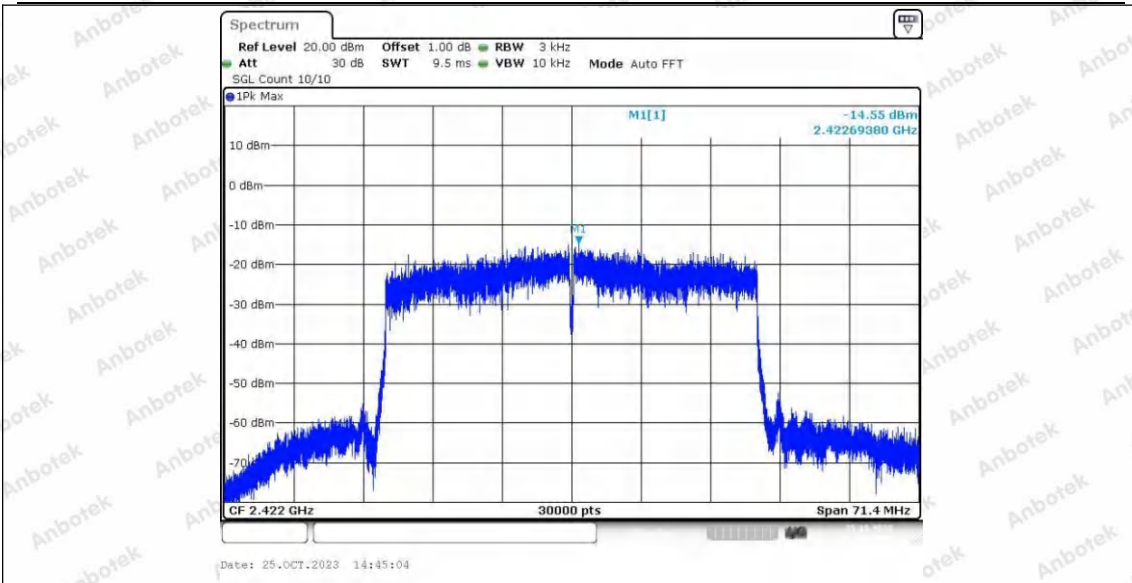
11AX40SISO_Ant1_2422

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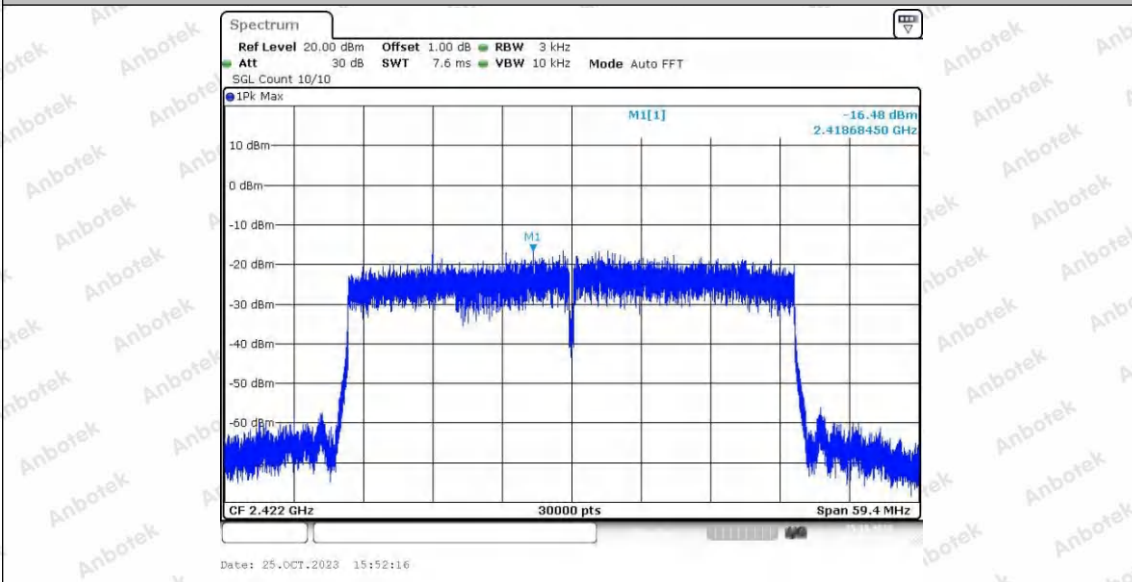
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11AX40SISO_Ant2_2422



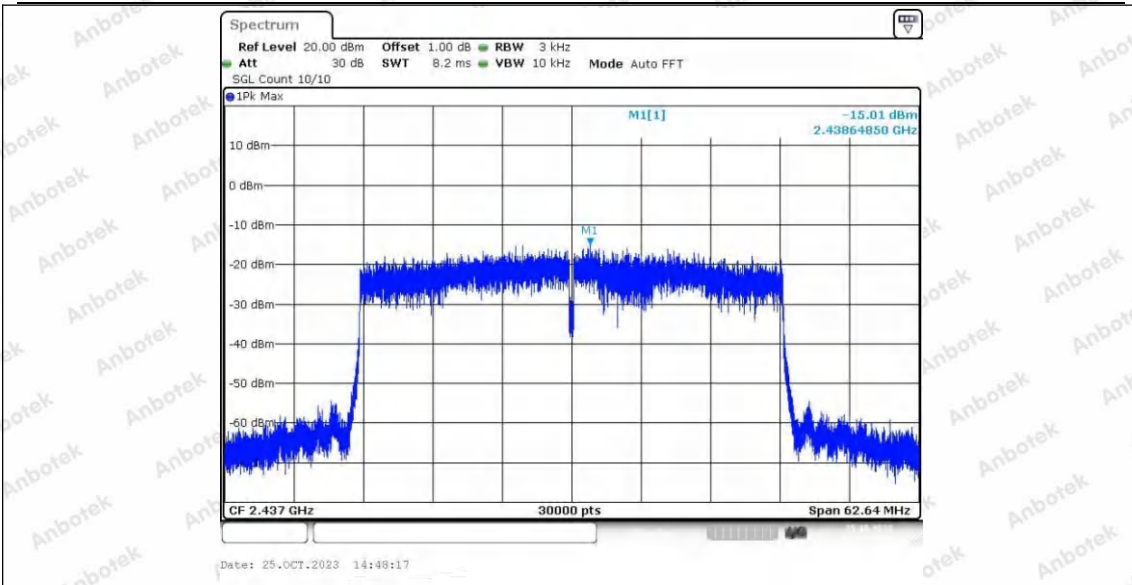
11AX40SISO_Ant1_2437

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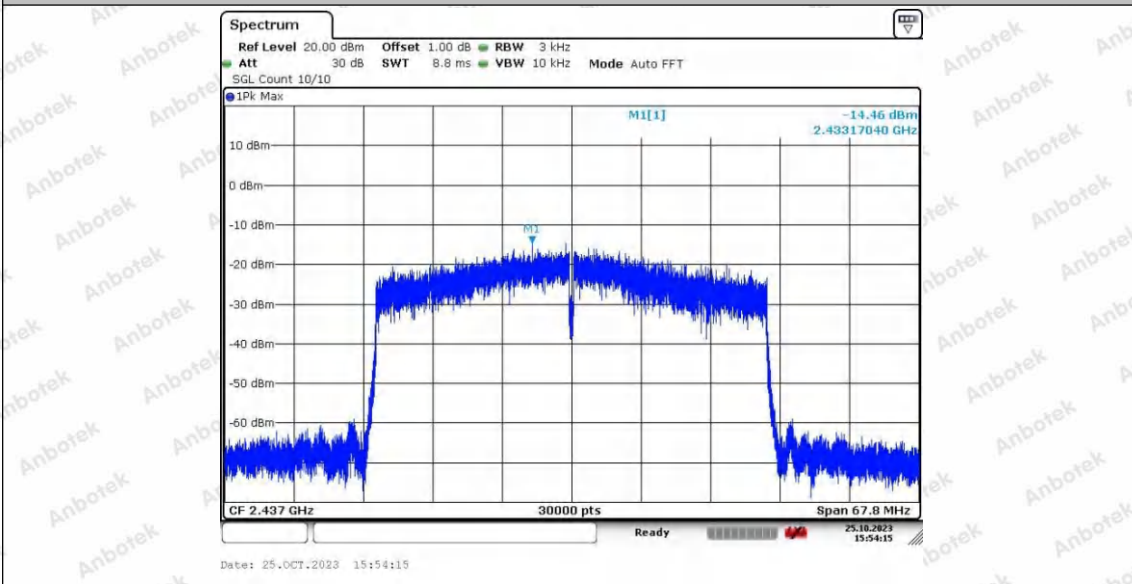
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11AX40SISO_Ant2_2437



11AX40SISO_Ant1_2452

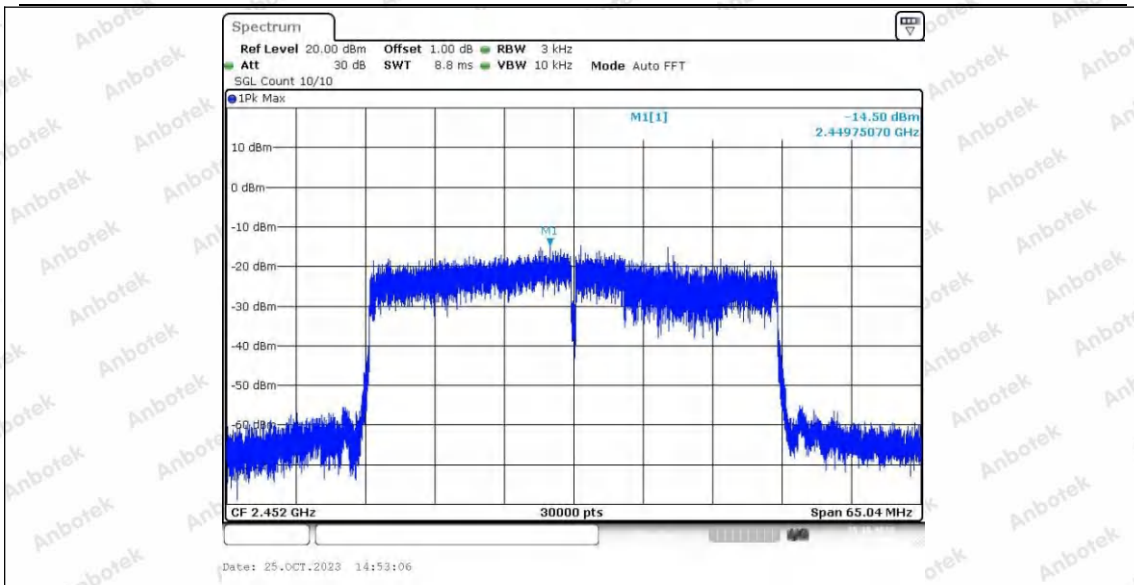
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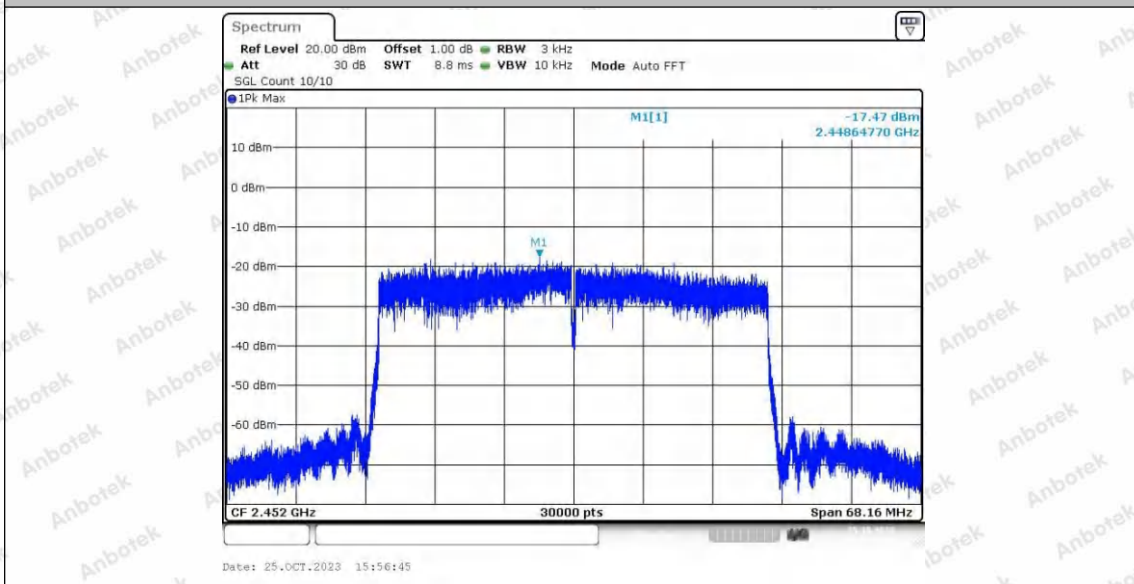


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11AX40SISO_Ant2_2452



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Appendix E: Band edge measurements

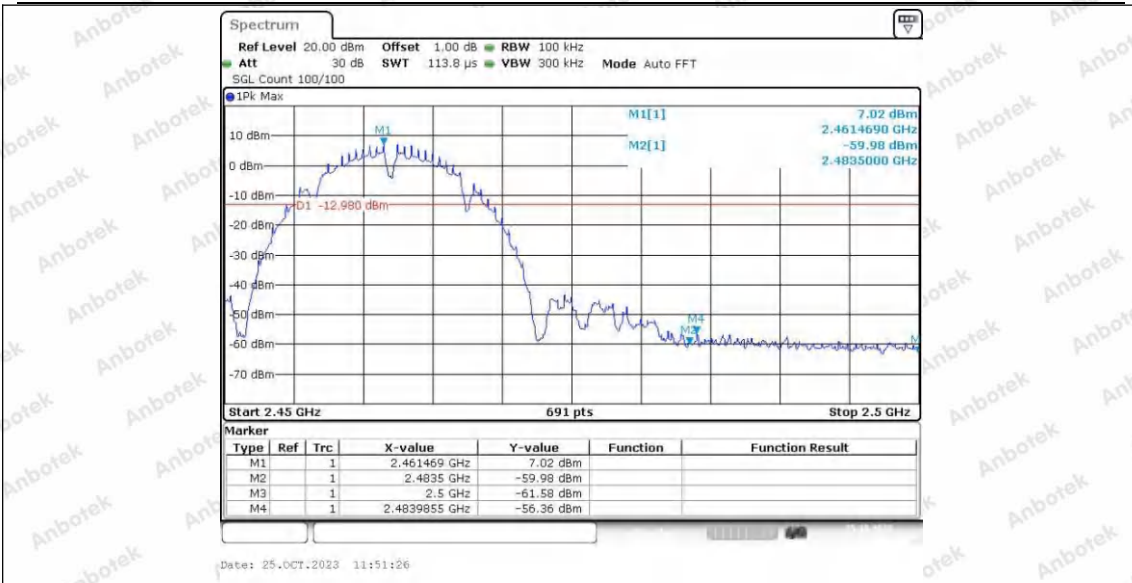
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.67	-44.77	≤-13.33	PASS
	Ant2	Low	2412	5.54	-43.99	≤-14.46	PASS
	Ant1	High	2462	7.02	-56.36	≤-12.98	PASS
	Ant2	High	2462	3.10	-57.11	≤-16.9	PASS
11G	Ant1	Low	2412	2.20	-42.73	≤-17.8	PASS
	Ant2	Low	2412	-0.30	-45.21	≤-20.3	PASS
	Ant1	High	2462	0.84	-53.16	≤-19.16	PASS
	Ant2	High	2462	-2.92	-54.89	≤-22.92	PASS
11N20SISO	Ant1	Low	2412	-0.84	-44.12	≤-20.84	PASS
	Ant2	Low	2412	-2.48	-45.57	≤-22.48	PASS
	Ant1	High	2462	0.53	-52.89	≤-19.47	PASS
	Ant2	High	2462	-5.06	-54.81	≤-25.06	PASS
11N40SISO	Ant1	Low	2422	0.98	-42.53	≤-19.02	PASS
	Ant2	Low	2422	-1.05	-41.52	≤-21.05	PASS
	Ant1	High	2452	0.64	-41.46	≤-19.36	PASS
	Ant2	High	2452	-2.19	-46.17	≤-22.19	PASS
11AX20SISO	Ant1	Low	2412	-1.22	-42.69	≤-21.22	PASS
	Ant2	Low	2412	-3.24	-42.23	≤-23.24	PASS
	Ant1	High	2462	-1.03	-52.16	≤-21.03	PASS
	Ant2	High	2462	-2.08	-55.05	≤-22.08	PASS
11AX40SISO	Ant1	Low	2422	-1.46	-42.91	≤-21.46	PASS
	Ant2	Low	2422	-1.11	-41.74	≤-21.11	PASS
	Ant1	High	2452	-0.47	-44.15	≤-20.47	PASS
	Ant2	High	2452	-2.13	-50.54	≤-22.13	PASS



Test Graphs



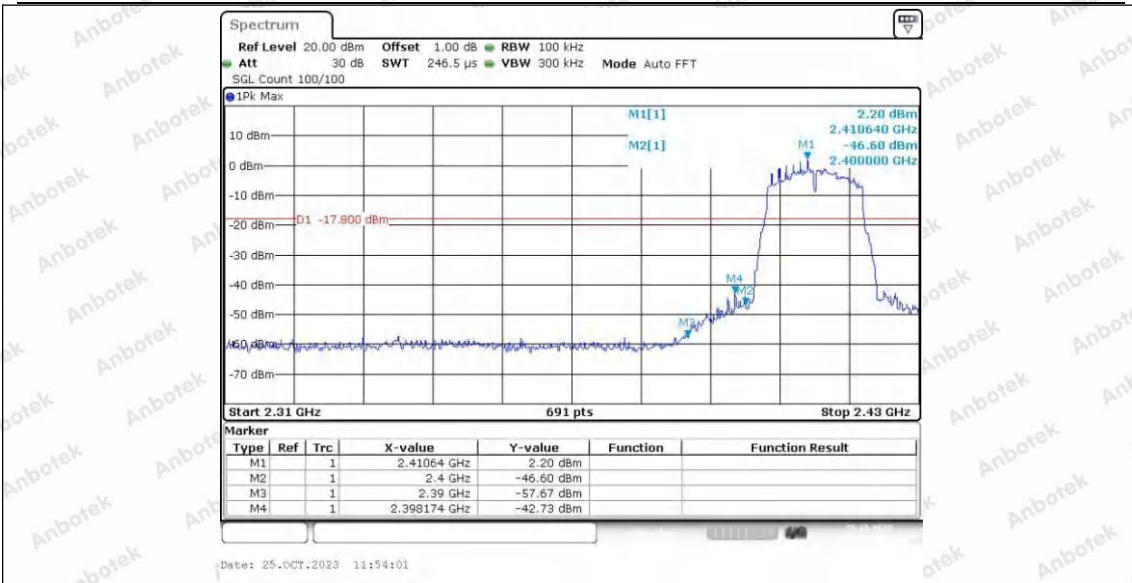


11B_Ant2_High_2462

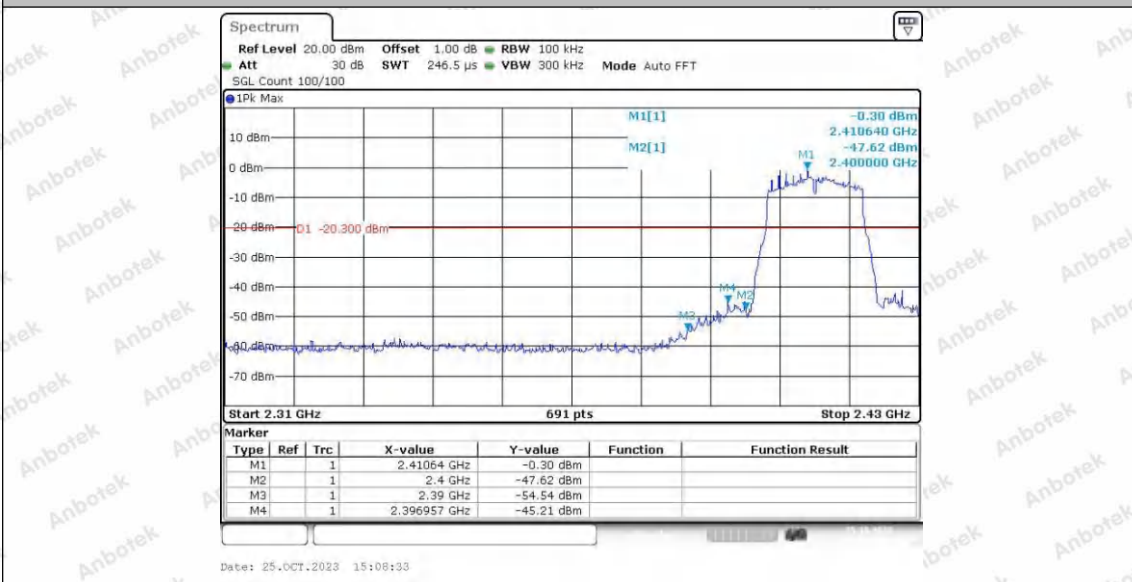


11G_Ant1_Low_2412



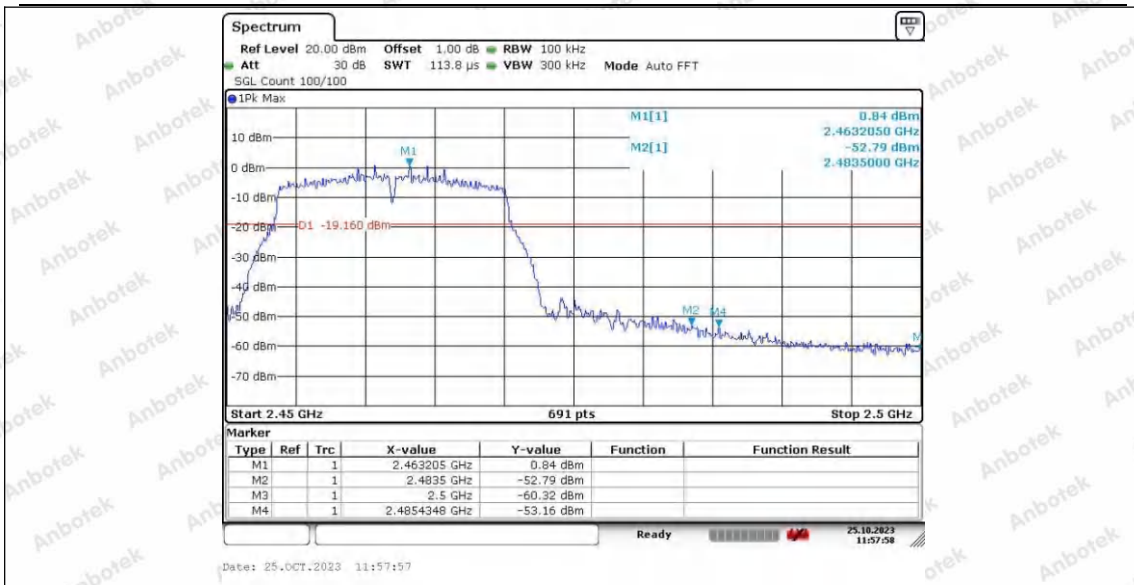


11G_Ant2_Low_2412

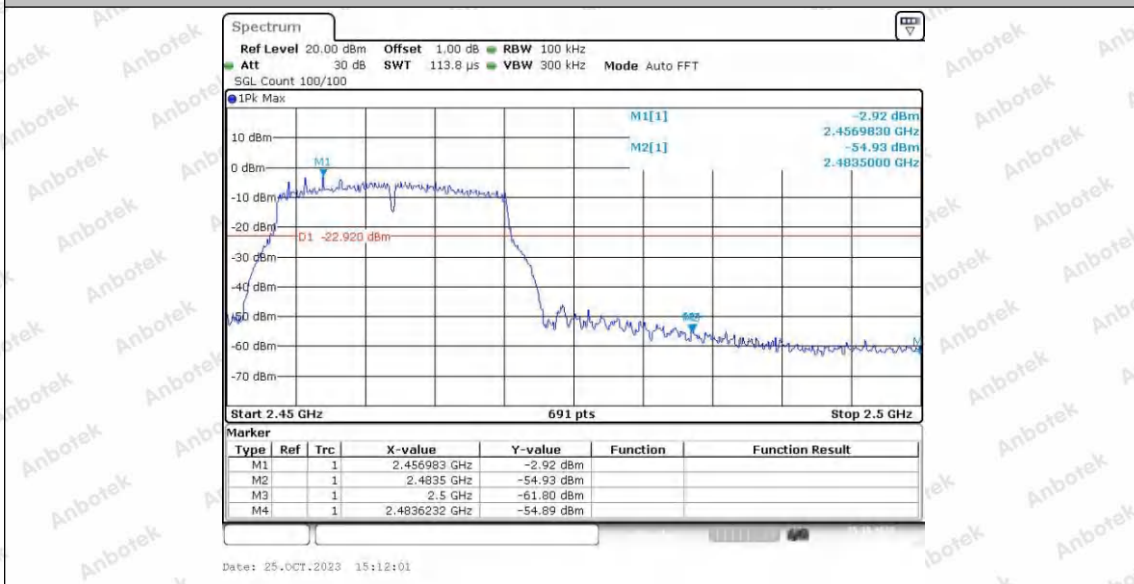


11G_Ant1_High_2462



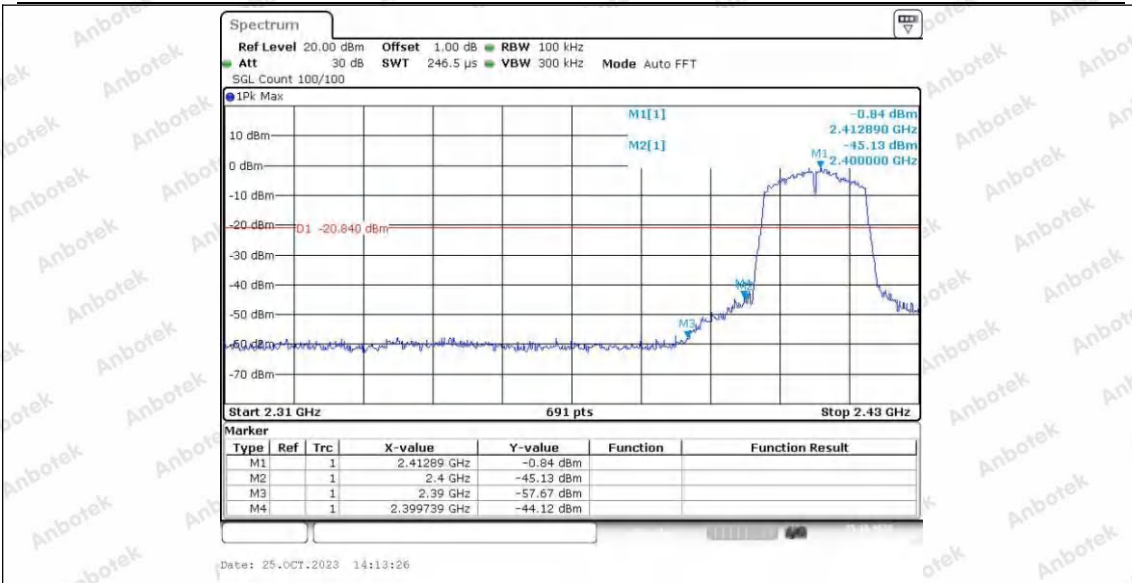


11G_Ant2_High_2462

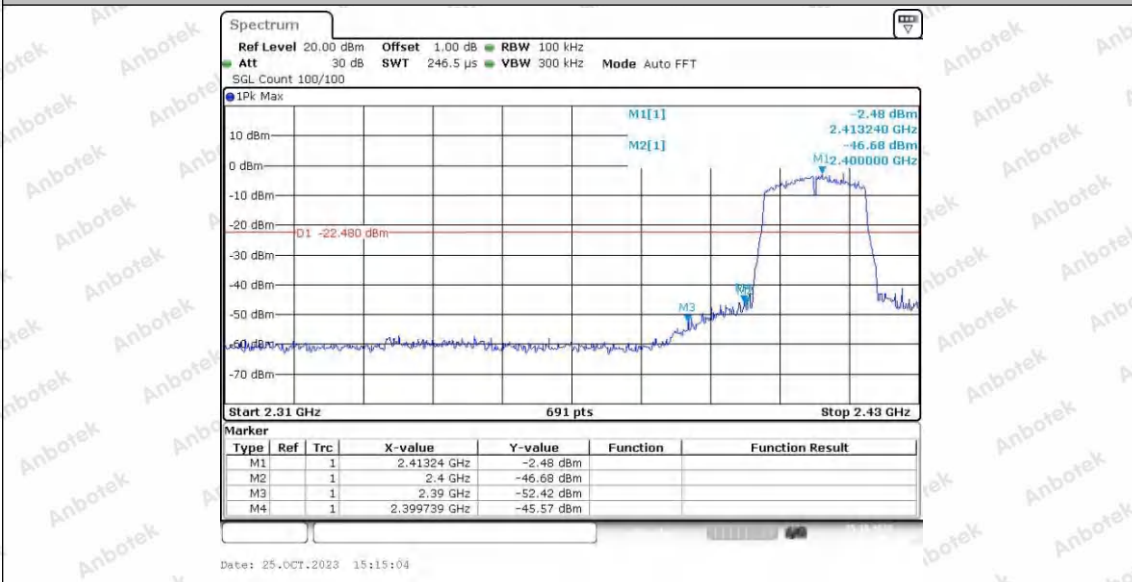


11N20SISO_Ant1_Low_2412



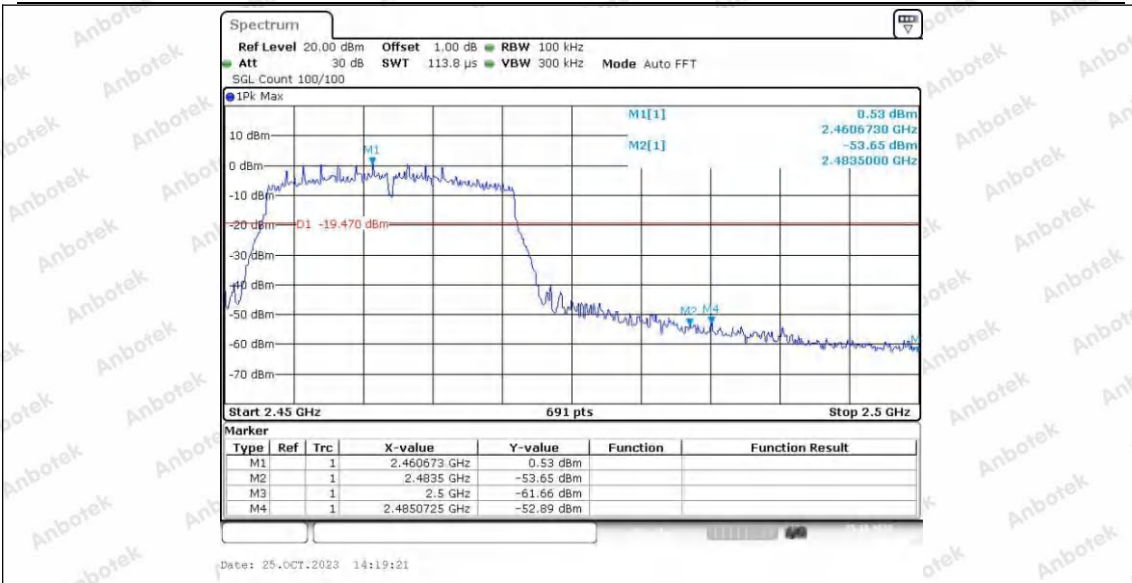


11N20SISO_Ant2_Low_2412

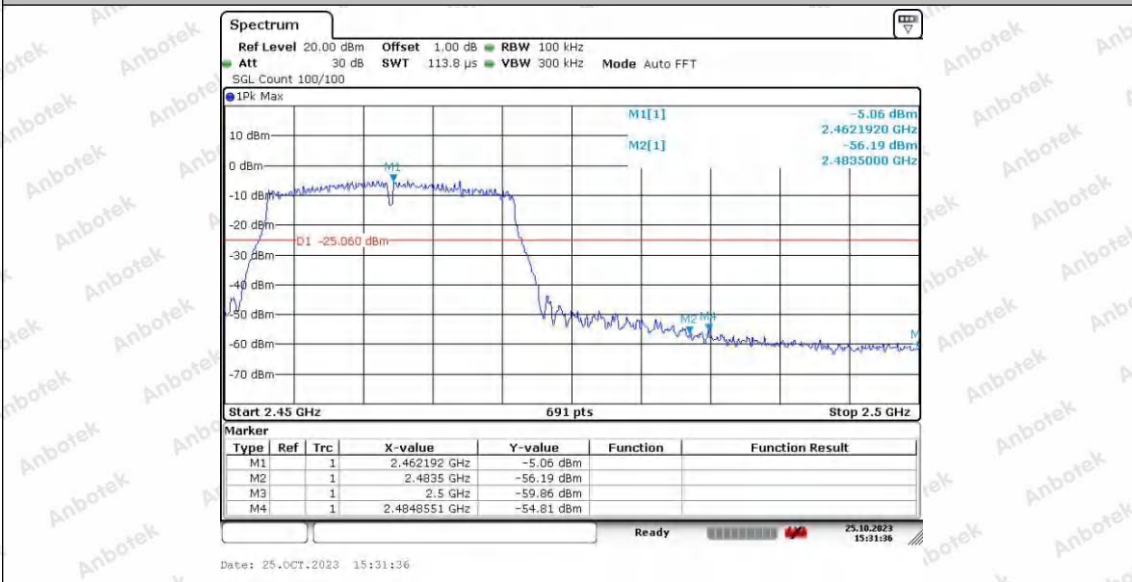


11N20SISO_Ant1_High_2462





11N20SISO_Ant2_High_2462



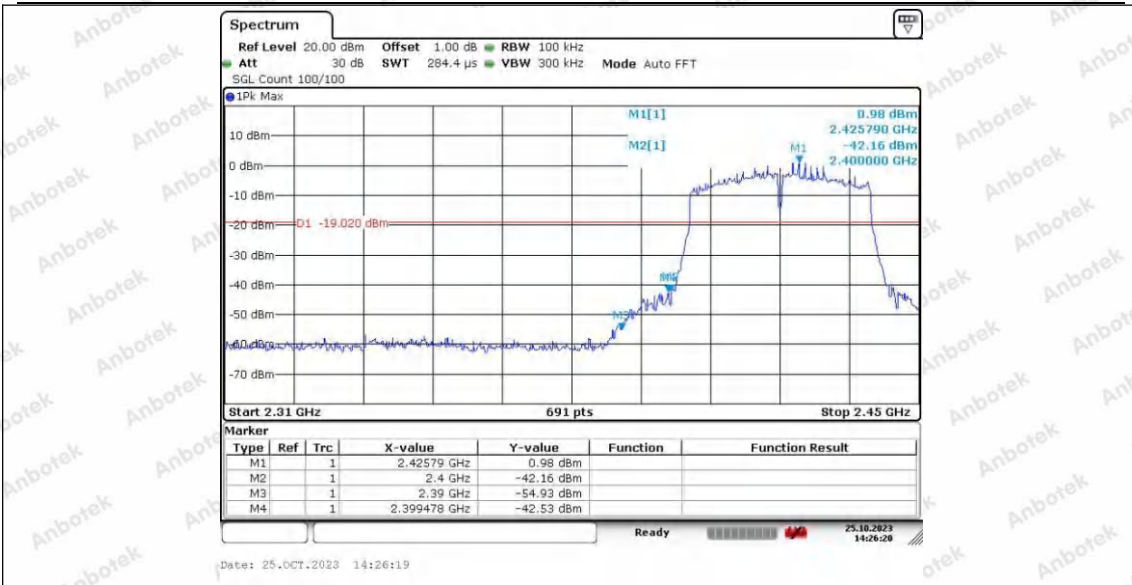
11N40SISO_Ant1_Low_2422

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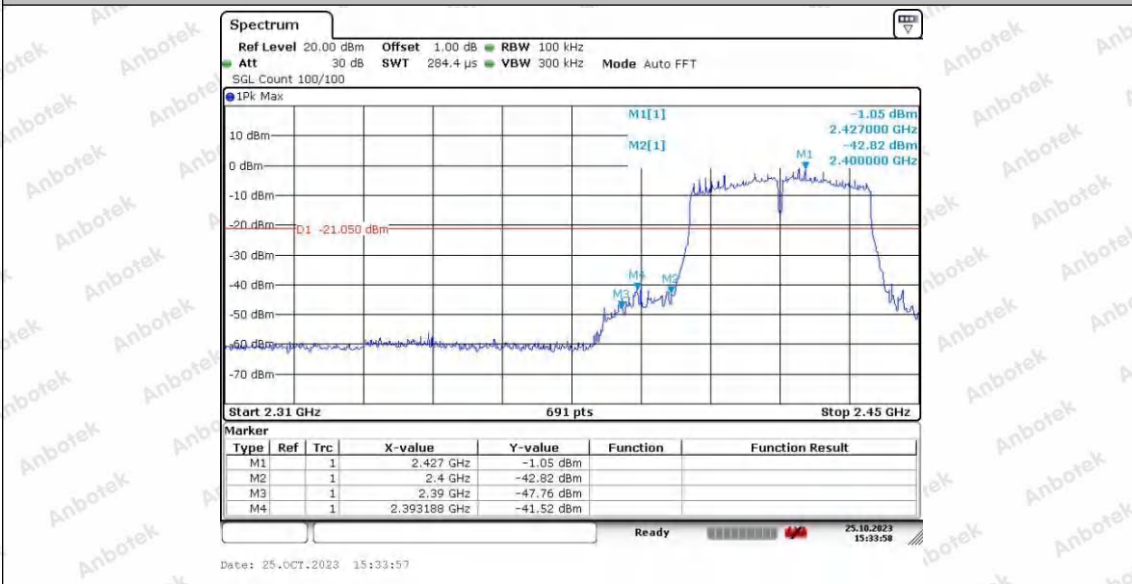
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11N40SISO_Ant2_Low_2422



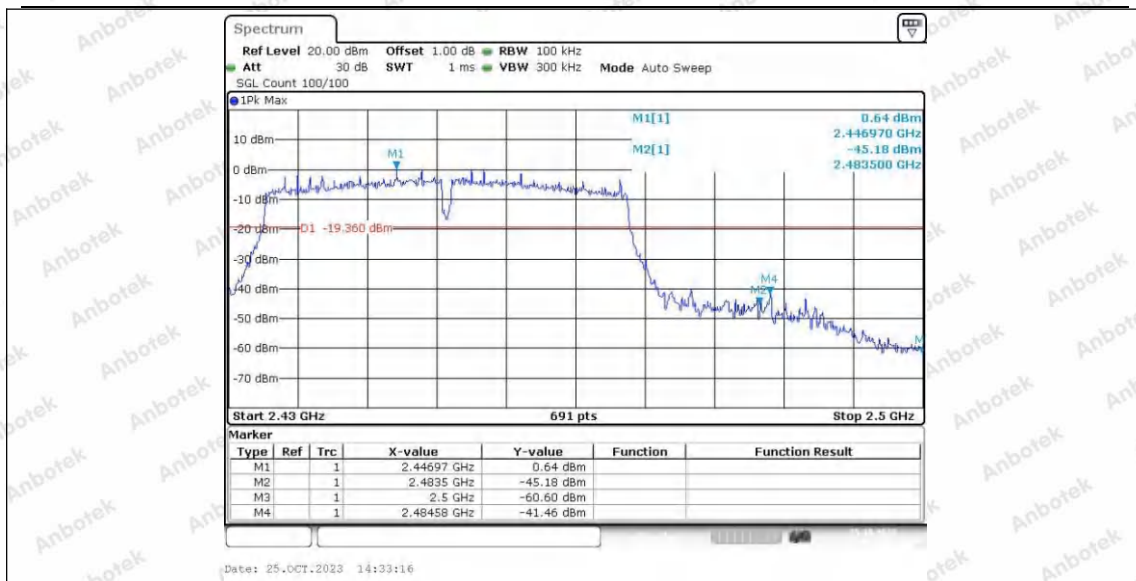
11N40SISO_Ant1_High_2452

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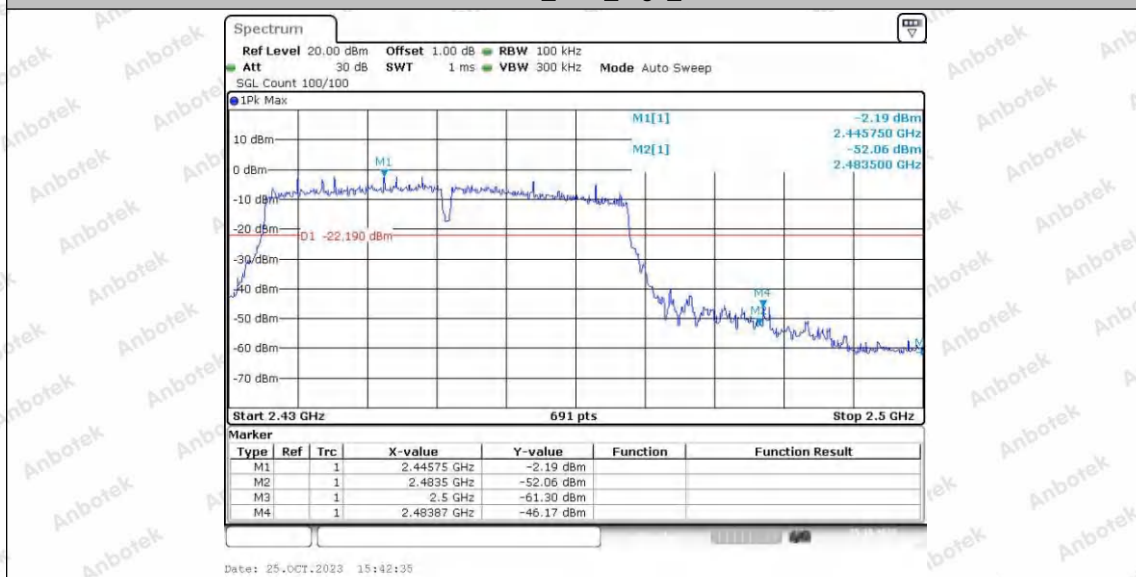
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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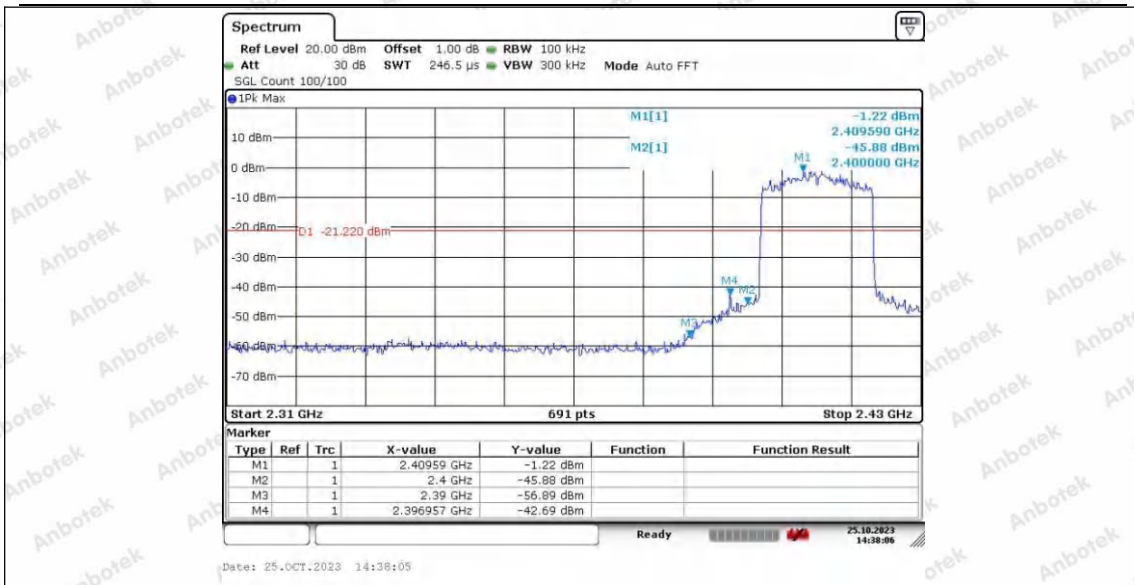


11N40SISO_Ant2_High_2452

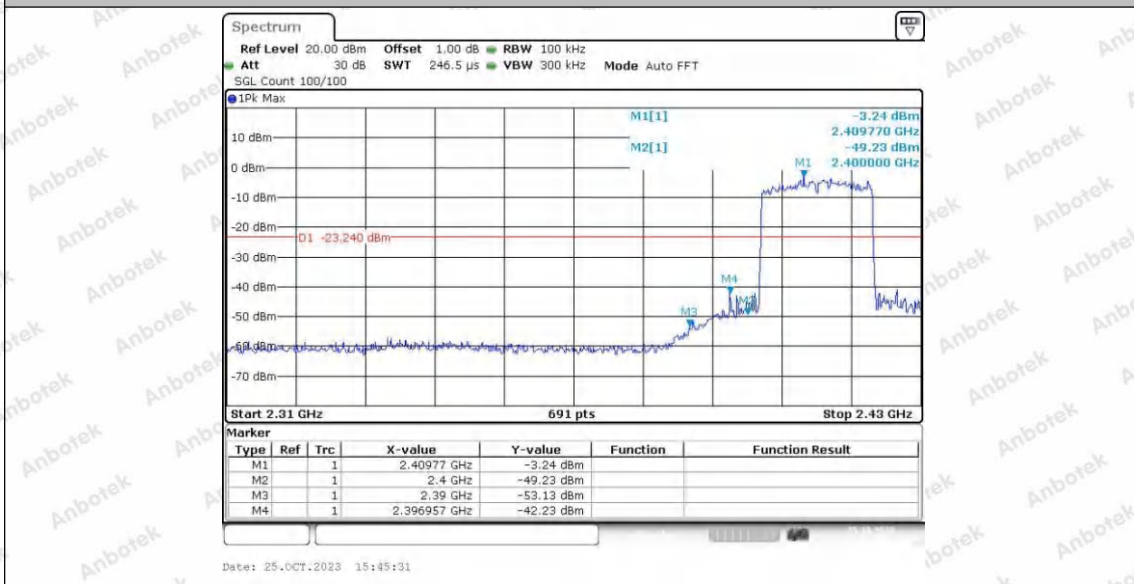


11AX20SISO_Ant1_Low_2412



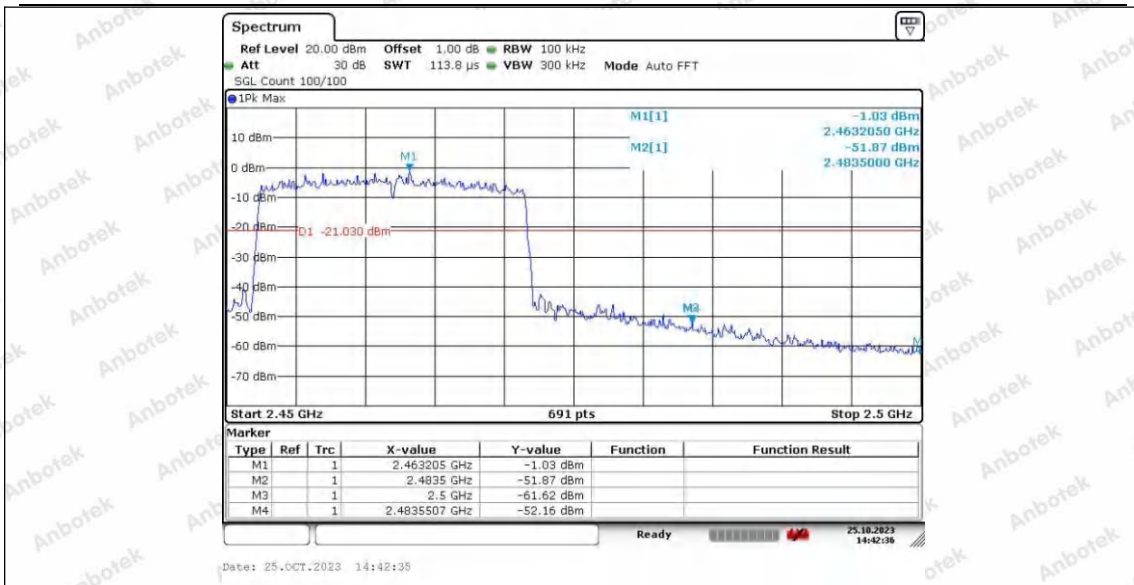


11AX20SISO_Ant2_Low_2412

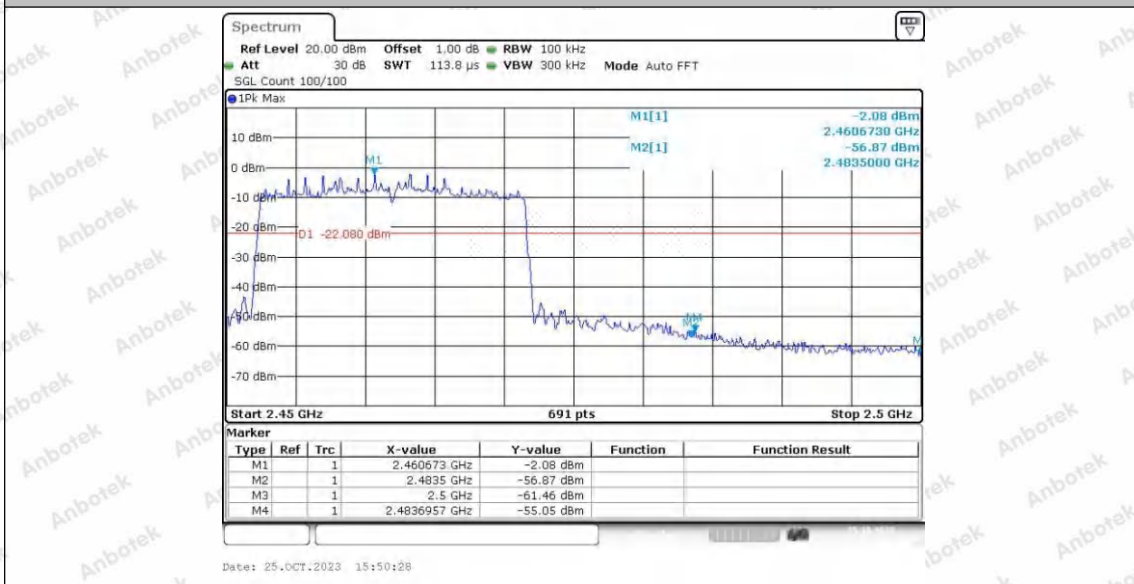


11AX20SISO_Ant1_High_2462



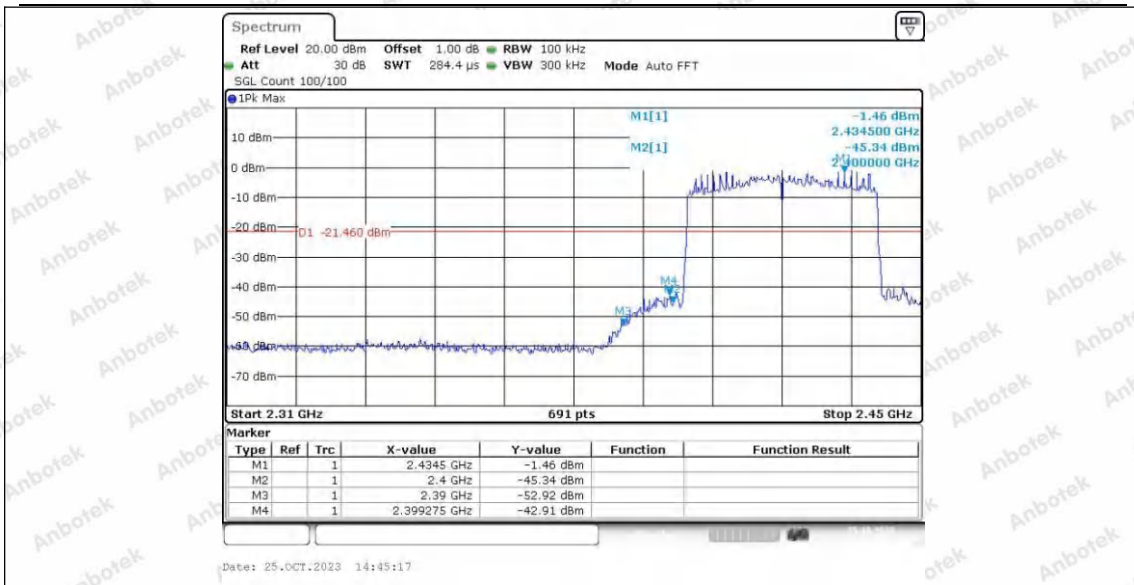


11AX20SISO_Ant2_High_2462

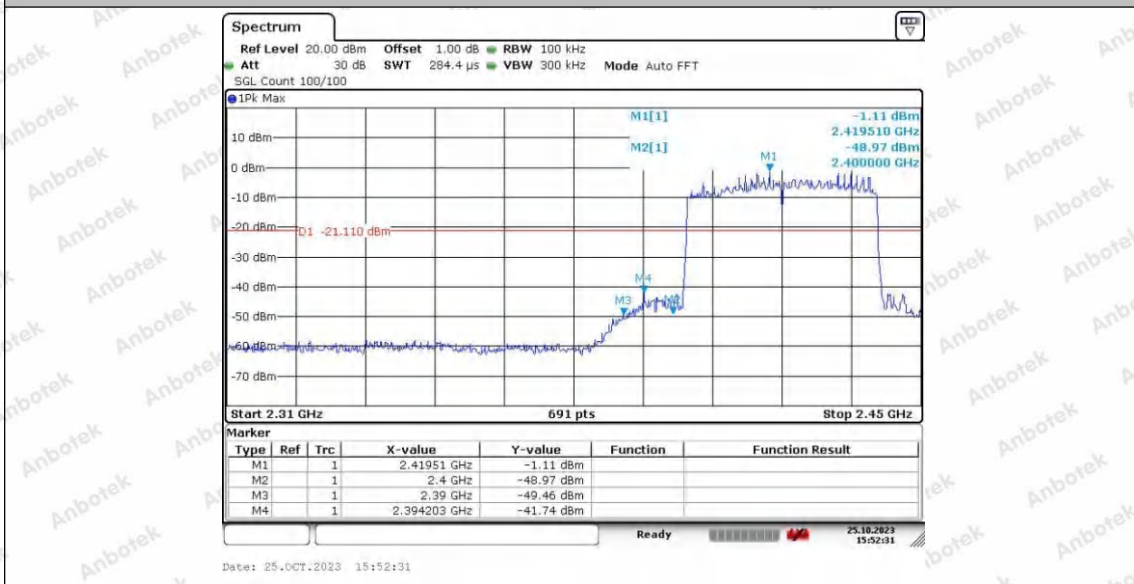


11AX40SISO_Ant1_Low_2422





11AX40SISO_Ant2_Low_2422



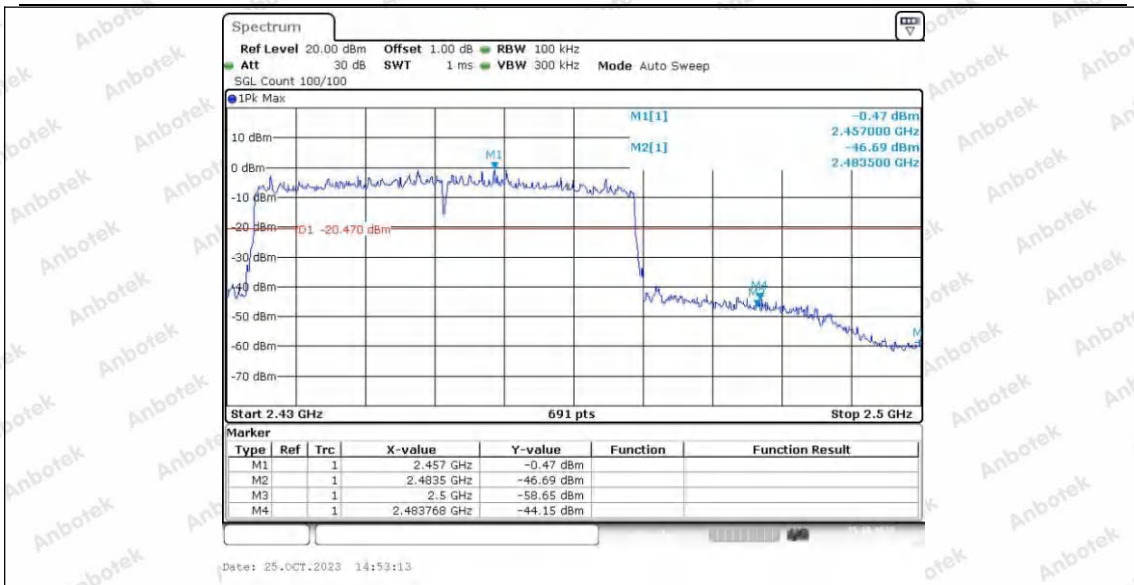
11AX40SISO_Ant1_High_2452

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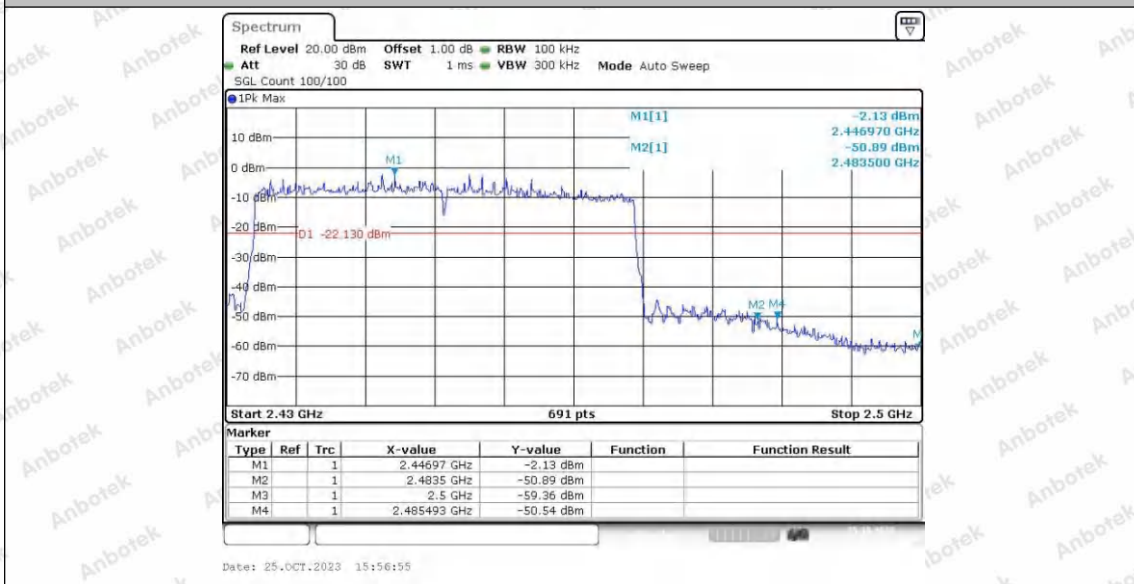
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.69	4.69	---	PASS
			30~1000	4.69	-68.47	≤-15.31	PASS
			1000~26500	4.69	-45.83	≤-15.31	PASS
	Ant2	2412	Reference	3.75	3.75	---	PASS
			30~1000	3.75	-67.98	≤-16.25	PASS
			1000~26500	3.75	-40.52	≤-16.25	PASS
	Ant1	2437	Reference	5.28	5.28	---	PASS
			30~1000	5.28	-68.42	≤-14.72	PASS
			1000~26500	5.28	-39.27	≤-14.72	PASS
	Ant2	2437	Reference	3.83	3.83	---	PASS
			30~1000	3.83	-68.2	≤-16.17	PASS
			1000~26500	3.83	-46.51	≤-16.17	PASS
Ant1	2462	Reference	4.33	4.33	---	PASS	
		30~1000	4.33	-69.01	≤-15.67	PASS	
		1000~26500	4.33	-54.27	≤-15.67	PASS	
Ant2	2462	Reference	1.66	1.66	---	PASS	
		30~1000	1.66	-69.07	≤-18.34	PASS	
		1000~26500	1.66	-40.74	≤-18.34	PASS	
11G	Ant1	2412	Reference	0.57	0.57	---	PASS
			30~1000	0.57	-67.88	≤-19.43	PASS
			1000~26500	0.57	-60.14	≤-19.43	PASS
	Ant2	2412	Reference	-3.74	-3.74	---	PASS
			30~1000	-3.74	-68.54	≤-23.74	PASS
			1000~26500	-3.74	-55.76	≤-23.74	PASS
	Ant1	2437	Reference	-2.52	-2.52	---	PASS
			30~1000	-2.52	-68.66	≤-22.52	PASS
			1000~26500	-2.52	-56.71	≤-22.52	PASS
	Ant2	2437	Reference	-2.62	-2.62	---	PASS
			30~1000	-2.62	-67.25	≤-22.62	PASS
			1000~26500	-2.62	-60.05	≤-22.62	PASS
Ant1	2462	Reference	-0.59	-0.59	---	PASS	
		30~1000	-0.59	-68.26	≤-20.59	PASS	
		1000~26500	-0.59	-59.19	≤-20.59	PASS	
Ant2	2462	Reference	-5.32	-5.32	---	PASS	
		30~1000	-5.32	-68.78	≤-25.32	PASS	

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11N20SISO	Ant1	2412	1000~26500	-5.32	-57.38	≤-25.32	PASS
			Reference	-1.86	-1.86	---	PASS
			30~1000	-1.86	-68.86	≤-21.86	PASS
	Ant2	2412	1000~26500	-1.86	-60.49	≤-21.86	PASS
			Reference	-4.02	-4.02	---	PASS
			30~1000	-4.02	-68.55	≤-24.02	PASS
	Ant1	2437	1000~26500	-4.02	-57.93	≤-24.02	PASS
			Reference	-2.19	-2.19	---	PASS
			30~1000	-2.19	-68.42	≤-22.19	PASS
	Ant2	2437	1000~26500	-2.19	-50.59	≤-22.19	PASS
			Reference	-2.81	-2.81	---	PASS
			30~1000	-2.81	-67.34	≤-22.81	PASS
	Ant1	2462	1000~26500	-2.81	-50.86	≤-22.81	PASS
			Reference	-2.75	-2.75	---	PASS
			30~1000	-2.75	-67.66	≤-22.75	PASS
	Ant2	2462	1000~26500	-2.75	-60.1	≤-22.75	PASS
			Reference	-5.60	-5.60	---	PASS
			30~1000	-5.60	-67.96	≤-25.6	PASS
11N40SISO	Ant1	2422	1000~26500	-5.60	-58.02	≤-25.6	PASS
			Reference	-2.87	-2.87	---	PASS
			30~1000	-2.87	-68.4	≤-22.87	PASS
	Ant2	2422	1000~26500	-2.87	-50.26	≤-22.87	PASS
			Reference	-4.16	-4.16	---	PASS
			30~1000	-4.16	-68.16	≤-24.16	PASS
	Ant1	2437	1000~26500	-4.16	-58.57	≤-24.16	PASS
			Reference	-3.37	-3.37	---	PASS
			30~1000	-3.37	-67.51	≤-23.37	PASS
	Ant2	2437	1000~26500	-3.37	-50.64	≤-23.37	PASS
			Reference	-0.31	-0.31	---	PASS
			30~1000	-0.31	-67.56	≤-20.31	PASS
	Ant1	2452	1000~26500	-0.31	-50.12	≤-20.31	PASS
			Reference	0.50	0.50	---	PASS
			30~1000	0.50	-68.13	≤-19.5	PASS
	Ant2	2452	1000~26500	0.50	-59.21	≤-19.5	PASS
			Reference	-2.98	-2.98	---	PASS
			30~1000	-2.98	-68.32	≤-22.98	PASS
Ant1	2412	1000~26500	-2.98	-57.06	≤-22.98	PASS	
		Reference	-4.15	-4.15	---	PASS	
		30~1000	-4.15	-68.57	≤-24.15	PASS	
Ant2	2412	1000~26500	-4.15	-59.26	≤-24.15	PASS	
		Reference	-5.17	-5.17	---	PASS	
		30~1000	-5.17	-68.57	≤-24.15	PASS	

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