

Appendix Test Data

Report No.:	18220WC40037402	Test Sample No.:	1-2-2
Start Test Date:	2024.3.20	Finish Test Date:	2024.3.20
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	24.3℃	Relative Humidity:	49%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.080	2408.480	2415.560	0.5	PASS
		2437	7.520	2433.480	2441.000	0.5	PASS
		2462	7.000	2458.440	2465.440	0.5	PASS
11G	Ant1	2412	15.120	2404.440	2419.560	0.5	PASS
		2437	15.080	2429.440	2444.520	0.5	PASS
		2462	15.440	2454.480	2469.920	0.5	PASS
11N20SISO	Ant1	2412	15.680	2403.880	2419.560	0.5	PASS
		2437	15.400	2429.120	2444.520	0.5	PASS
		2462	15.120	2454.440	2469.560	0.5	PASS
11N40SISO	Ant1	2422	33.760	2405.680	2439.440	0.5	PASS
		2437	35.040	2419.480	2454.520	0.5	PASS
		2452	35.120	2434.480	2469.600	0.5	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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11G_Ant1_2412



11G_Ant1_2437



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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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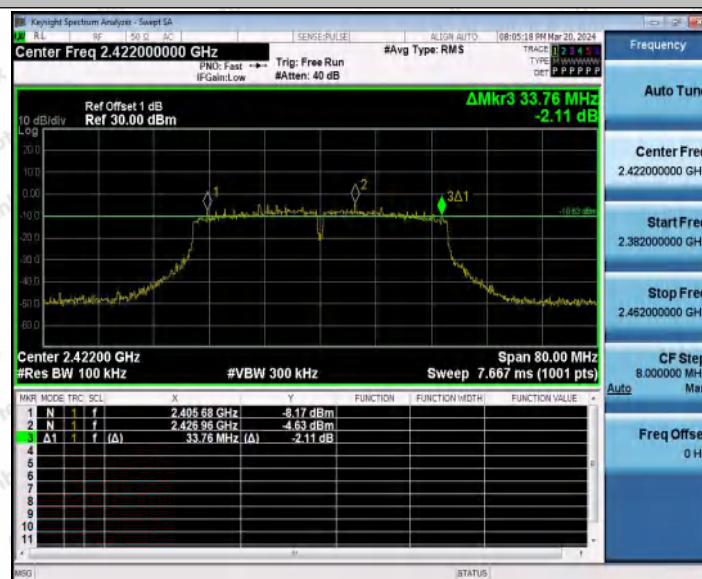




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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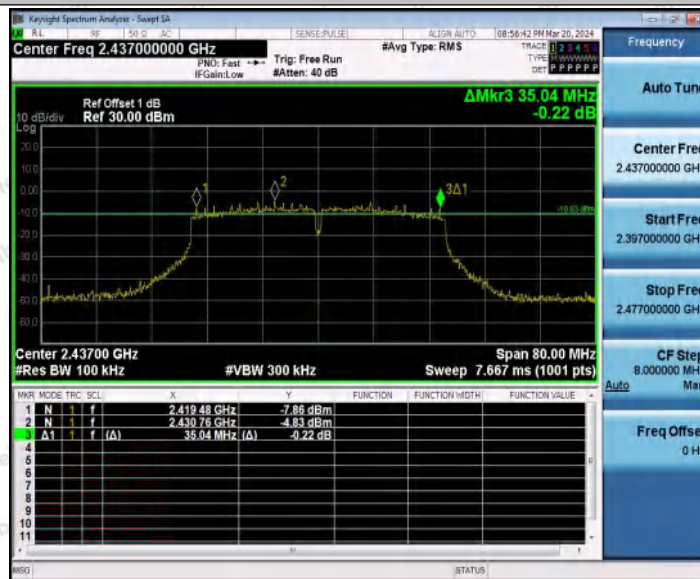
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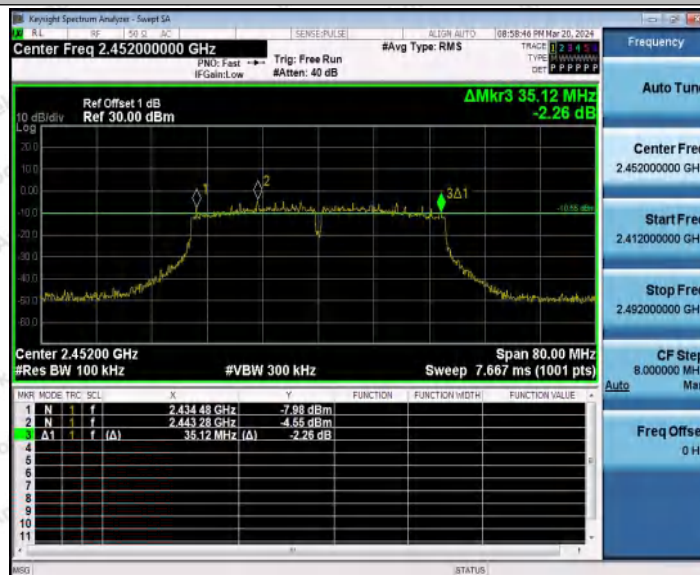
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.325	2406.3875	2417.7125	---	---
		2437	11.395	2431.4240	2442.8190	---	---
		2462	11.332	2456.4038	2467.7358	---	---
11G	Ant1	2412	16.734	2403.6552	2420.3892	---	---
		2437	16.726	2428.6330	2445.3590	---	---
		2462	16.728	2453.6564	2470.3844	---	---
11N20SISO	Ant1	2412	17.863	2403.0578	2420.9208	---	---
		2437	17.893	2428.0672	2445.9602	---	---
		2462	17.934	2453.0774	2471.0114	---	---
11N40SISO	Ant1	2422	36.523	2403.7289	2440.2519	---	---
		2437	36.249	2418.9218	2455.1708	---	---
		2452	36.343	2433.8951	2470.2381	---	---



Test Graphs

11B_Ant1_2412

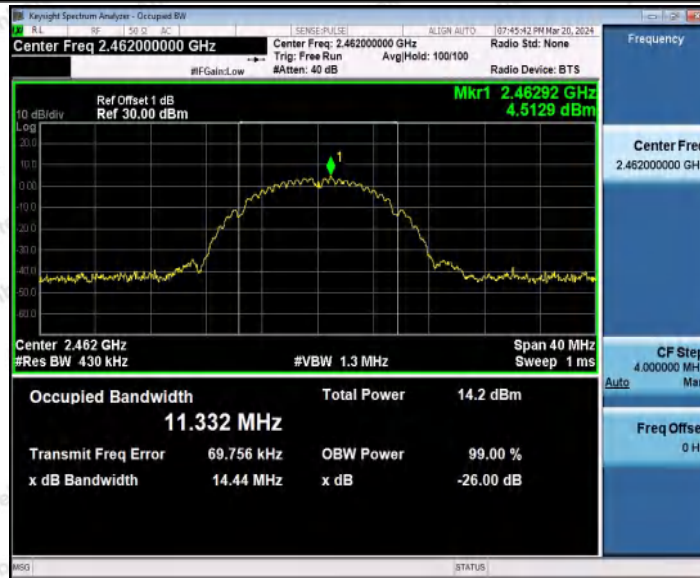


11B_Ant1_2437



11B_Ant1_2462

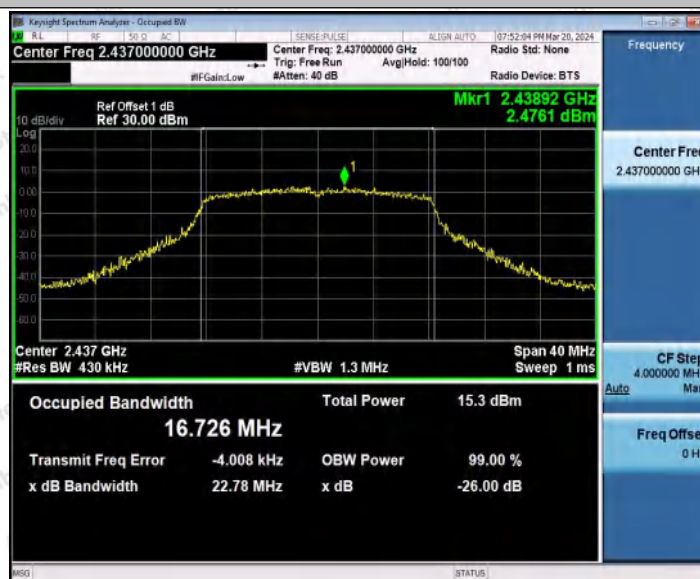




11G_Ant1_2412



11G_Ant1_2437



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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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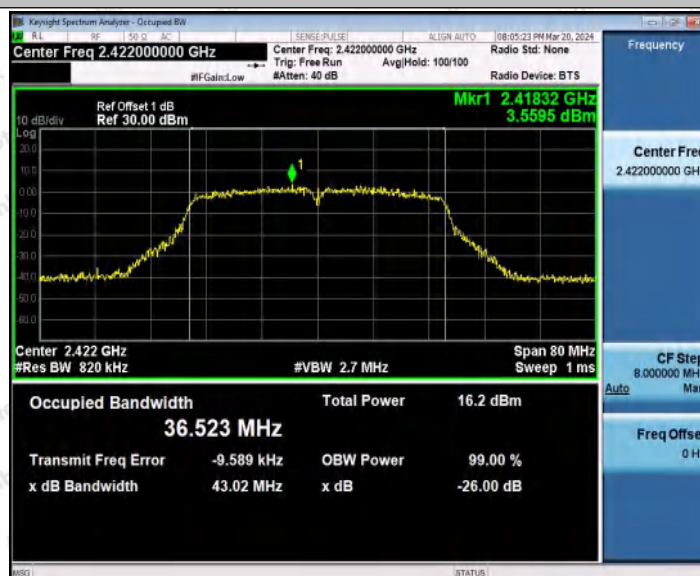




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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Appendix C: Maximum conducted output power

Test Result Average

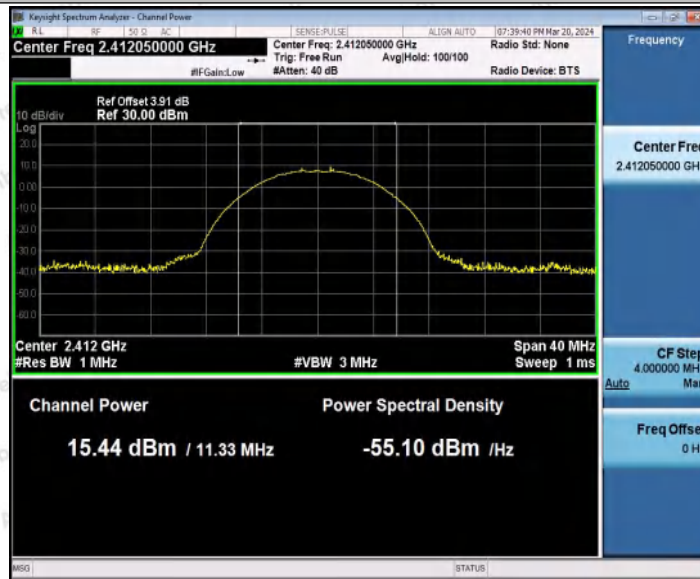
Test Mode	Antenna	Frequency[MHz]	Set Power	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	---	12.53	51.16	2.91	15.44	≤30.00	PASS
		2437	---	12.52	52.33	2.81	15.33	≤30.00	PASS
		2462	---	12.61	51.16	2.91	15.52	≤30.00	PASS
11G	Ant1	2412	---	13.41	62.83	2.02	15.43	≤30.00	PASS
		2437	---	13.56	62.50	2.04	15.60	≤30.00	PASS
		2462	---	13.96	63.39	1.98	15.94	≤30.00	PASS
11N20SIS O	Ant1	2412	---	13.50	62.39	2.05	15.55	≤30.00	PASS
		2437	---	13.43	62.39	2.05	15.48	≤30.00	PASS
		2462	---	13.87	61.47	2.11	15.98	≤30.00	PASS
11N40SIS O	Ant1	2422	---	13.52	58.59	2.32	15.84	≤30.00	PASS
		2437	---	13.69	58.00	2.37	16.06	≤30.00	PASS
		2452	---	13.59	58.00	2.37	15.96	≤30.00	PASS

Note: The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

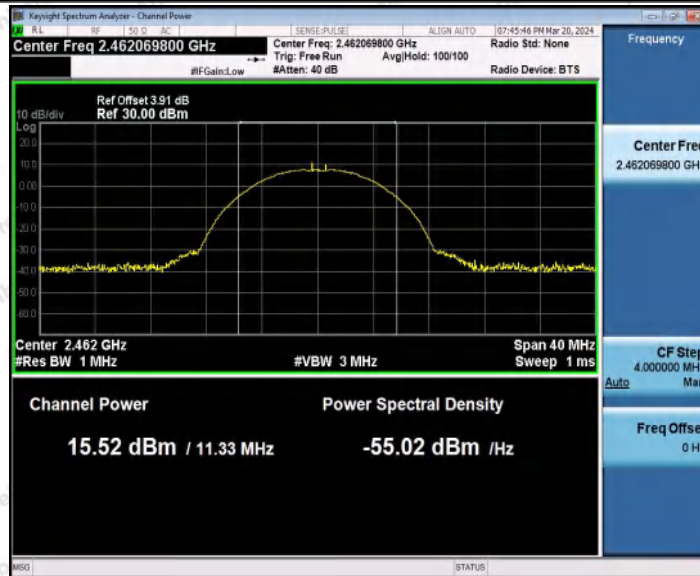
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11G_Ant1_2412



11G_Ant1_2437



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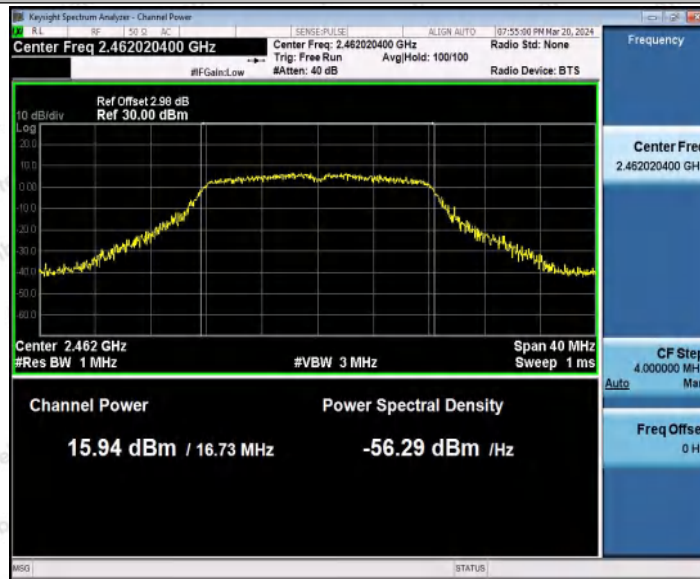
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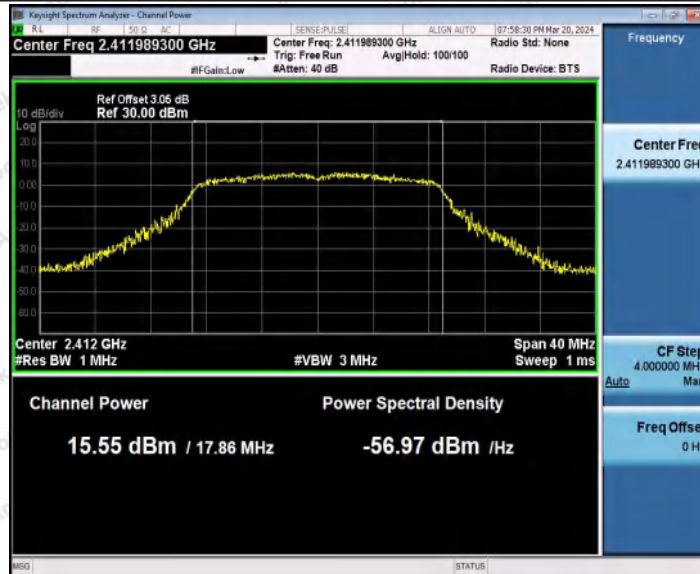
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

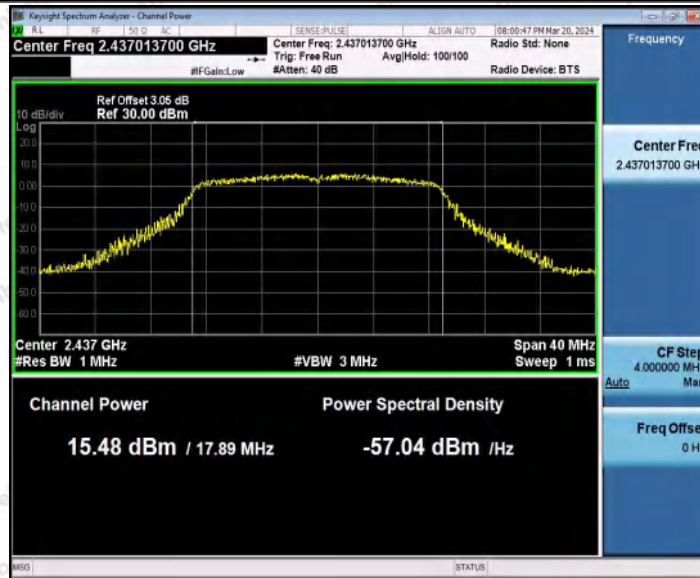
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11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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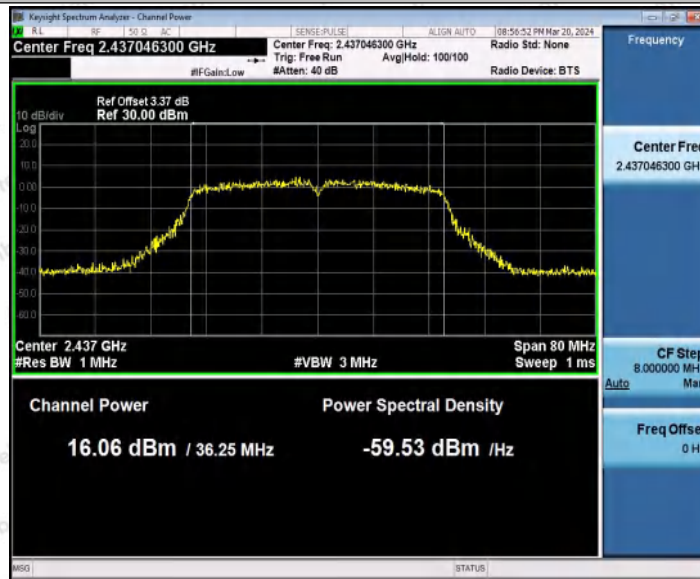
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Maximum conducted output power

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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]
11B	Ant1	2412	-9.05	-19.05	≤8.00	PASS
		2437	-9.16	-19.16	≤8.00	PASS
		2462	-8.8	-18.80	≤8.00	PASS
11G	Ant1	2412	-13.75	-23.75	≤8.00	PASS
		2437	-12.5	-22.50	≤8.00	PASS
		2462	-13.22	-23.22	≤8.00	PASS
11N20SISO	Ant1	2412	-12.68	-22.68	≤8.00	PASS
		2437	-13.83	-23.83	≤8.00	PASS
		2462	-13.51	-23.51	≤8.00	PASS
11N40SISO	Ant1	2422	-17.08	-27.08	≤8.00	PASS
		2437	-17.43	-27.43	≤8.00	PASS
		2452	-17.1	-27.10	≤8.00	PASS

Note:

1. The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.
2. $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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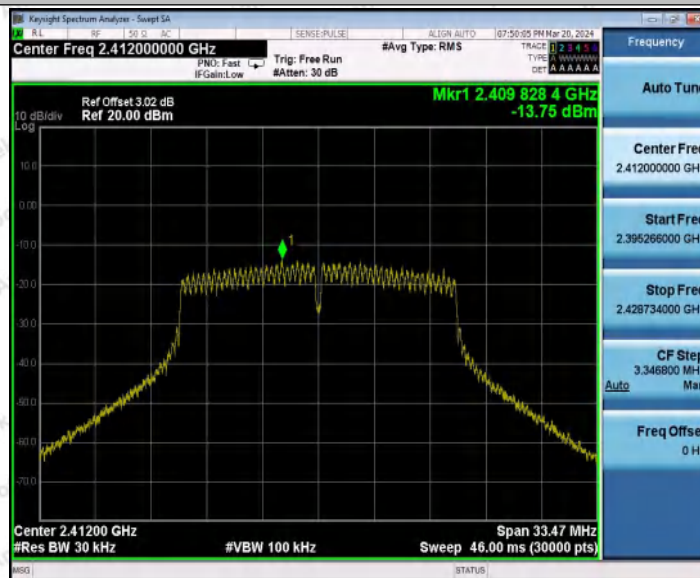


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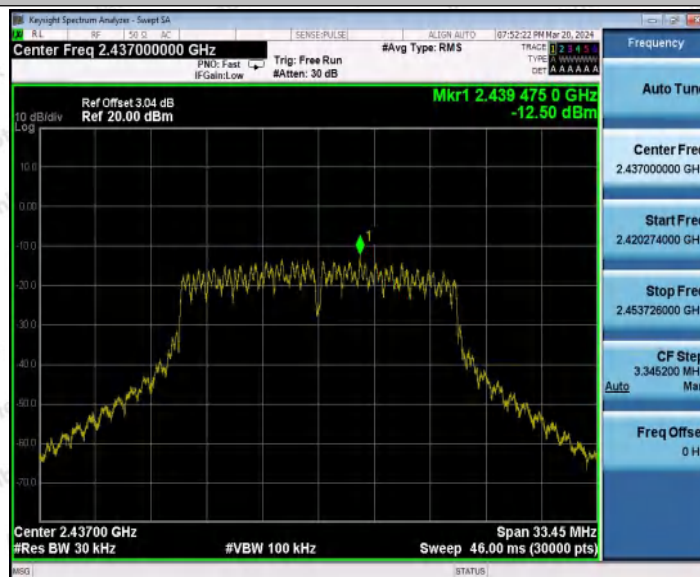




11G_Ant1_2412



11G_Ant1_2437



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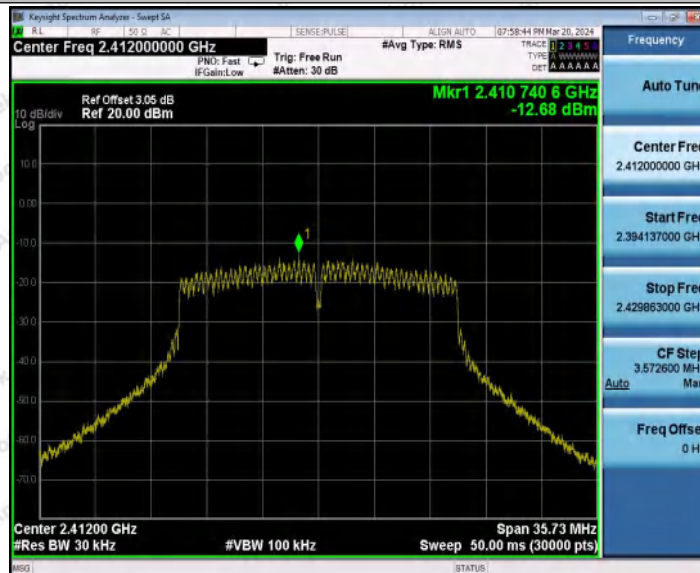
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

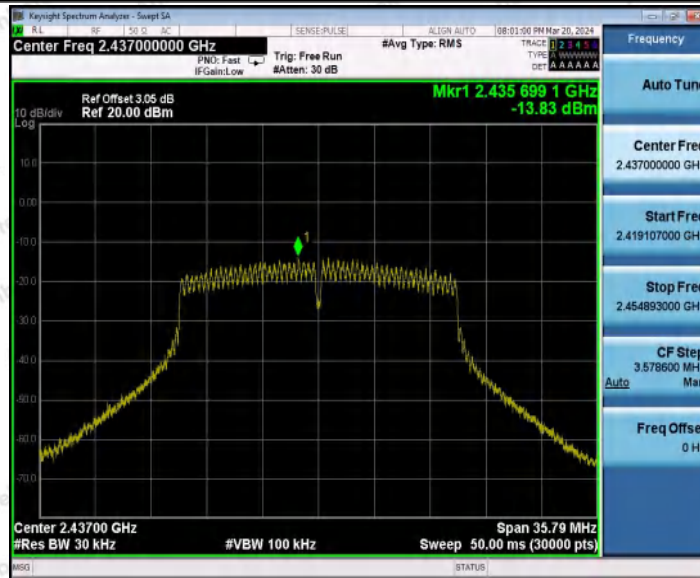
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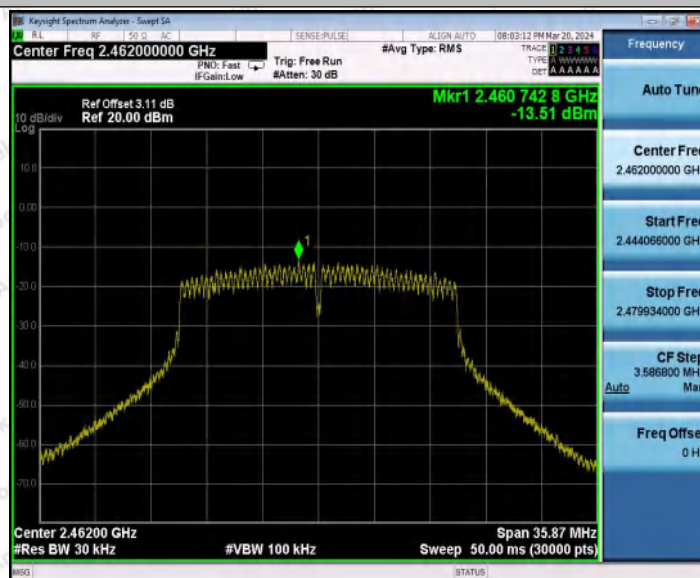


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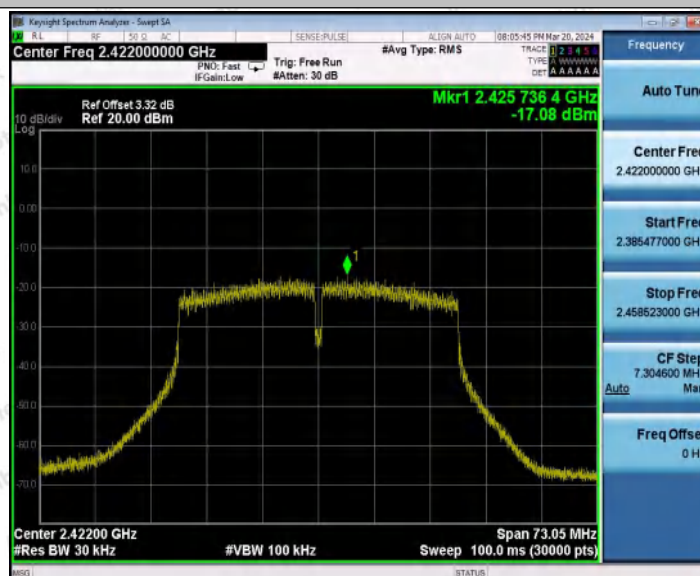




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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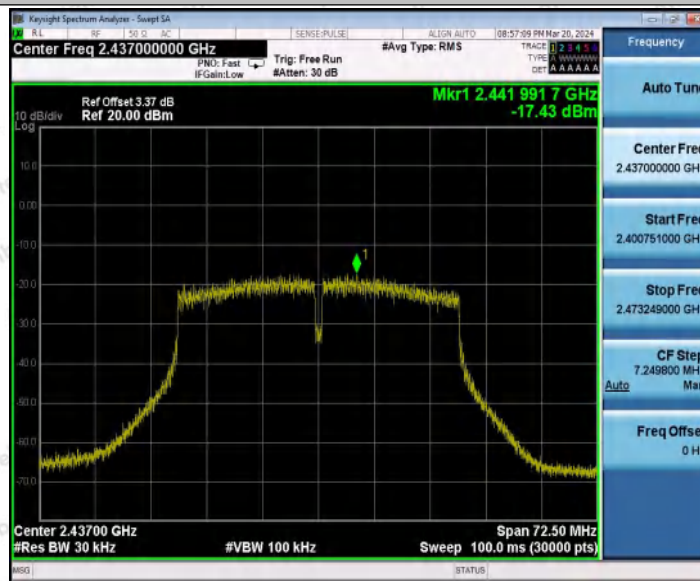
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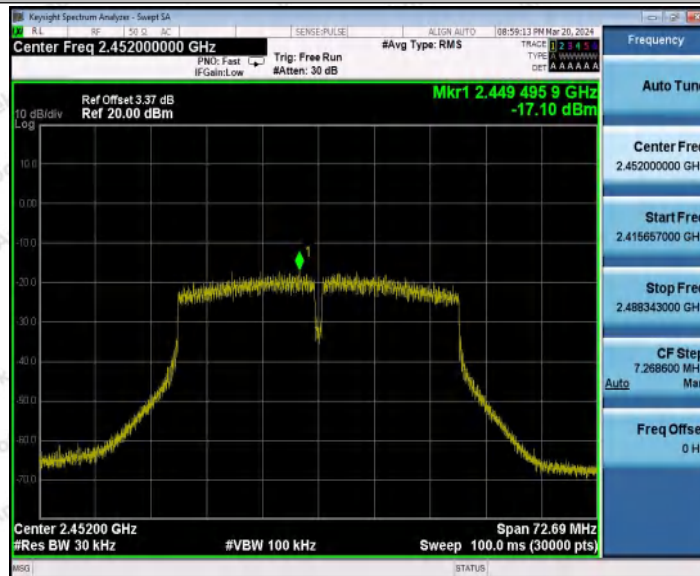
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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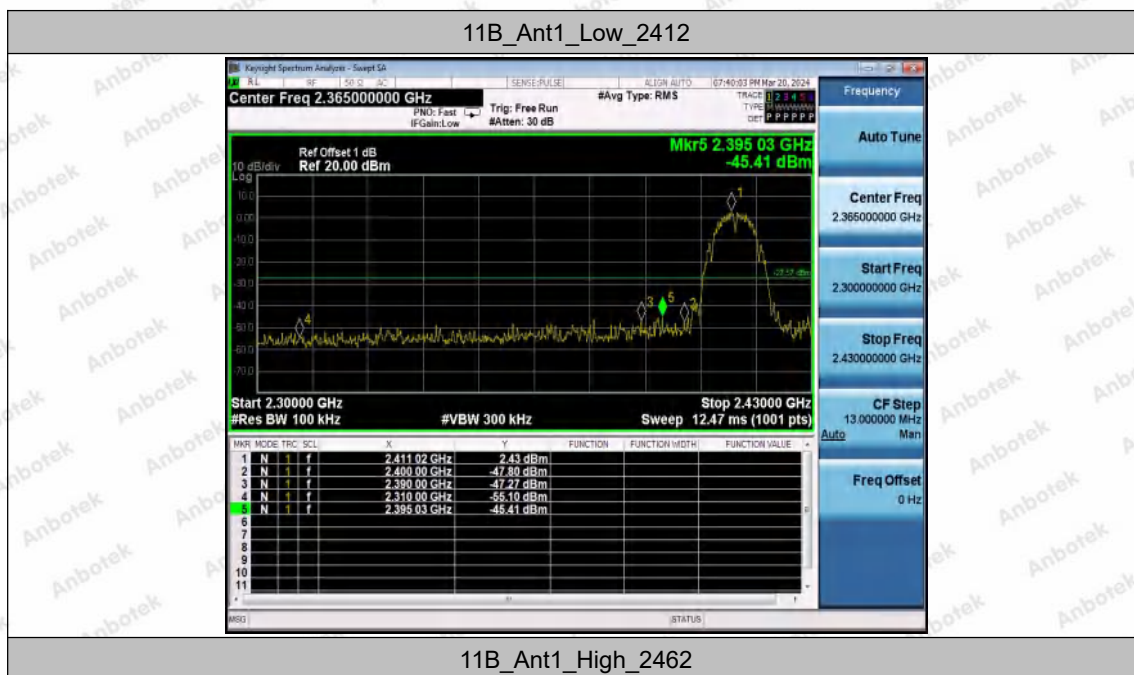


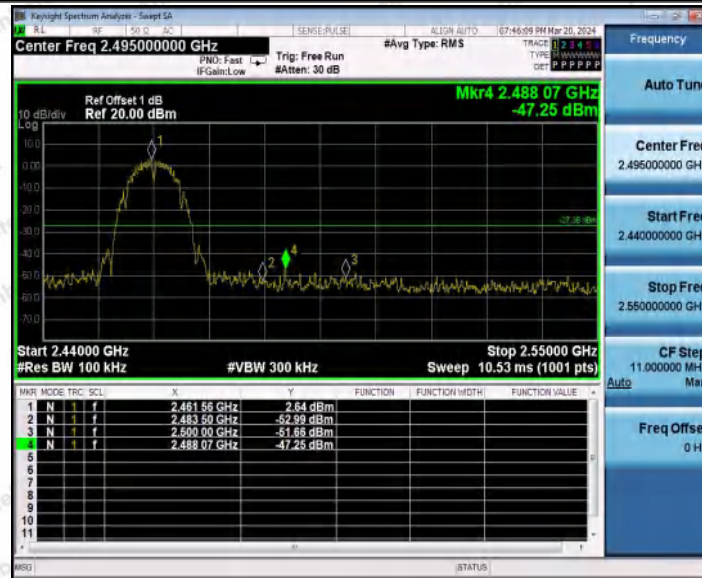
Appendix E: Conducted Band edge

Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.43	-45.41	≤-27.57	PASS
		High	2462	2.64	-47.25	≤-27.36	PASS
11G	Ant1	Low	2412	-1.01	-35.51	≤-31.01	PASS
		High	2462	-1.14	-51.92	≤-31.14	PASS
11N20SISO	Ant1	Low	2412	-1.49	-34.44	≤-31.49	PASS
		High	2462	-1.07	-52.92	≤-31.07	PASS
11N40SISO	Ant1	Low	2422	-4.31	-36.17	≤-34.31	PASS
		High	2452	-4.29	-52.42	≤-34.29	PASS

Test Graphs





11G_Ant1_Low_2412



11G_Ant1_High_2462



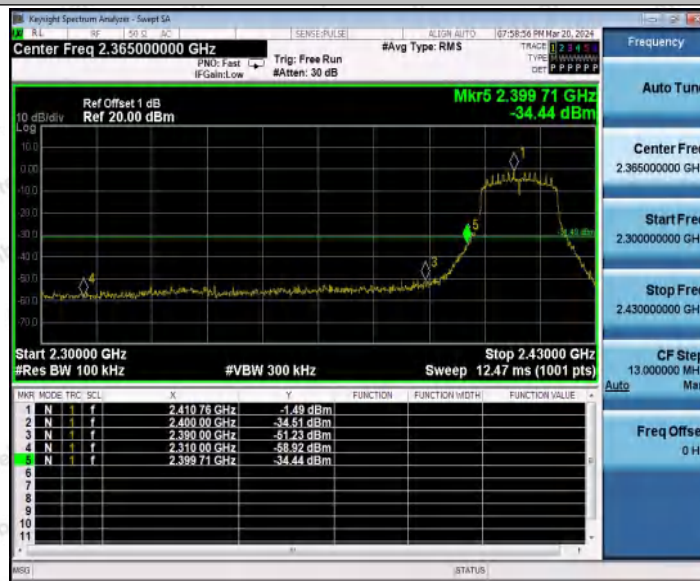
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11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422

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11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.06	3.06	---	PASS
			30~1000	3.06	-66.2	≤-26.94	PASS
			1000~26500	3.06	-50.86	≤-26.94	PASS
		2437	Reference	3.07	3.07	---	PASS
			30~1000	3.07	-67.29	≤-26.93	PASS
			1000~26500	3.07	-50.69	≤-26.93	PASS
		2462	Reference	2.94	2.94	---	PASS
			30~1000	2.94	-67.44	≤-27.06	PASS
			1000~26500	2.94	-51.57	≤-27.06	PASS
11G	Ant1	2412	Reference	-1.02	-1.02	---	PASS
			30~1000	-1.02	-67.95	≤-31.02	PASS
			1000~26500	-1.02	-52.85	≤-31.02	PASS
		2437	Reference	-0.99	-0.99	---	PASS
			30~1000	-0.99	-67.54	≤-30.99	PASS
			1000~26500	-0.99	-53.3	≤-30.99	PASS
		2462	Reference	-0.76	-0.76	---	PASS
			30~1000	-0.76	-67.89	≤-30.76	PASS
			1000~26500	-0.76	-53.06	≤-30.76	PASS
11N20SISO	Ant1	2412	Reference	-1.04	-1.04	---	PASS
			30~1000	-1.04	-68	≤-31.04	PASS
			1000~26500	-1.04	-53.32	≤-31.04	PASS
		2437	Reference	-1.04	-1.04	---	PASS
			30~1000	-1.04	-67.74	≤-31.04	PASS
			1000~26500	-1.04	-53.69	≤-31.04	PASS
		2462	Reference	-0.55	-0.55	---	PASS
			30~1000	-0.55	-67.7	≤-30.55	PASS
			1000~26500	-0.55	-53.27	≤-30.55	PASS
11N40SISO	Ant1	2422	Reference	-4.29	-4.29	---	PASS
			30~1000	-4.29	-67.95	≤-34.29	PASS
			1000~26500	-4.29	-52.42	≤-34.29	PASS
		2437	Reference	-4.32	-4.32	---	PASS
			30~1000	-4.32	-66.96	≤-34.32	PASS
			1000~26500	-4.32	-53.34	≤-34.32	PASS
		2452	Reference	-4.19	-4.19	---	PASS
			30~1000	-4.19	-67.77	≤-34.19	PASS
			1000~26500	-4.19	-53.84	≤-34.19	PASS



Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

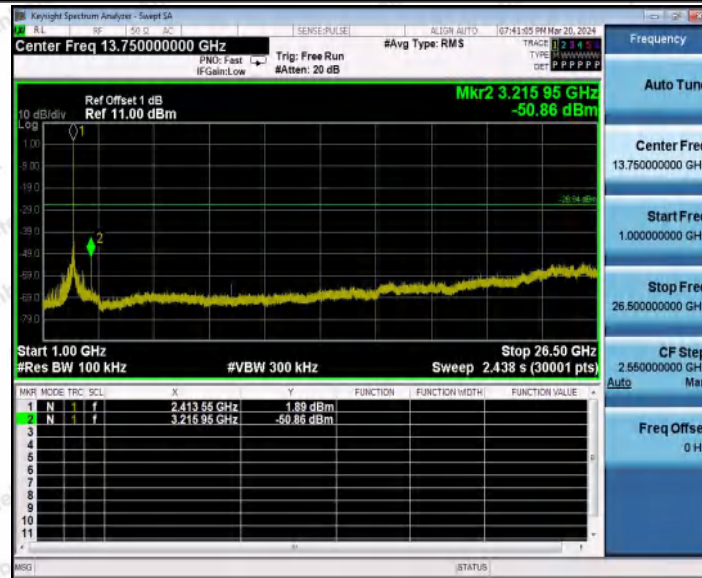
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



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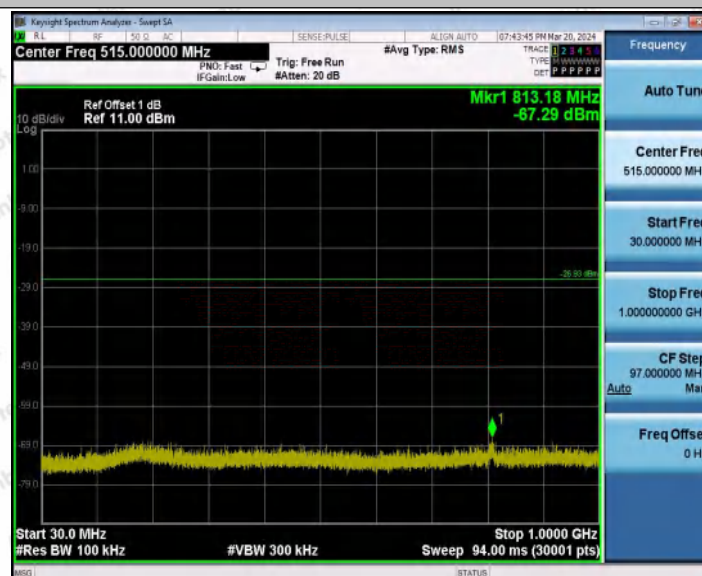




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



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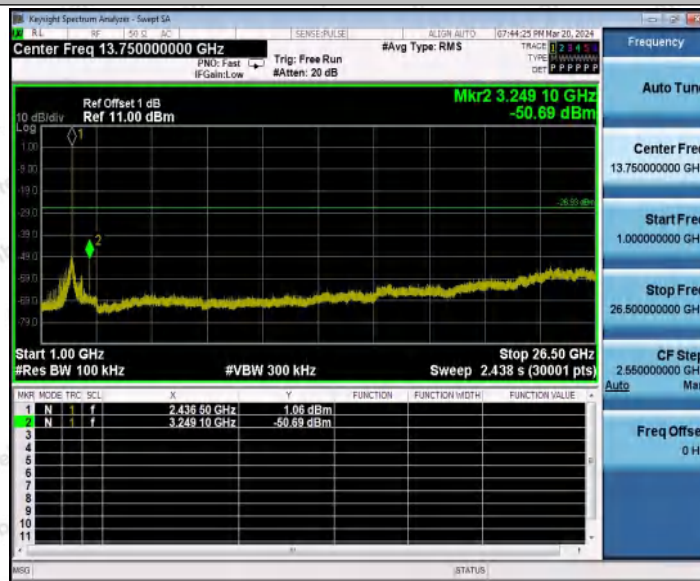
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000

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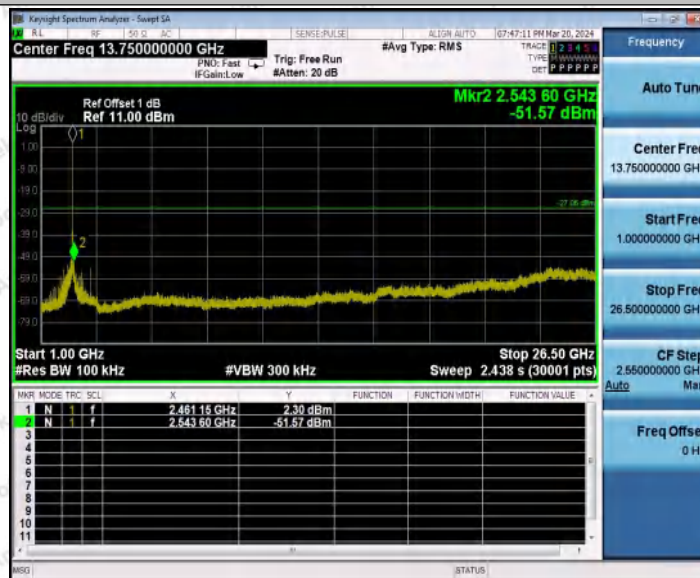


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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



Shenzhen Anbotek Compliance Laboratory Limited

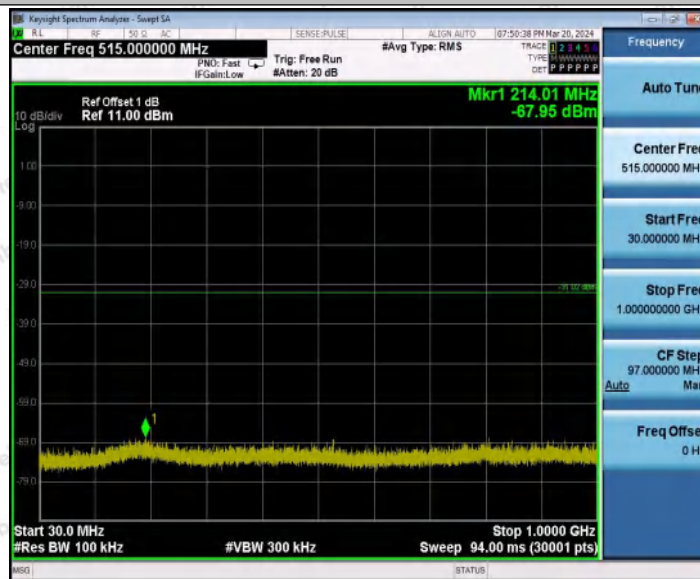
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



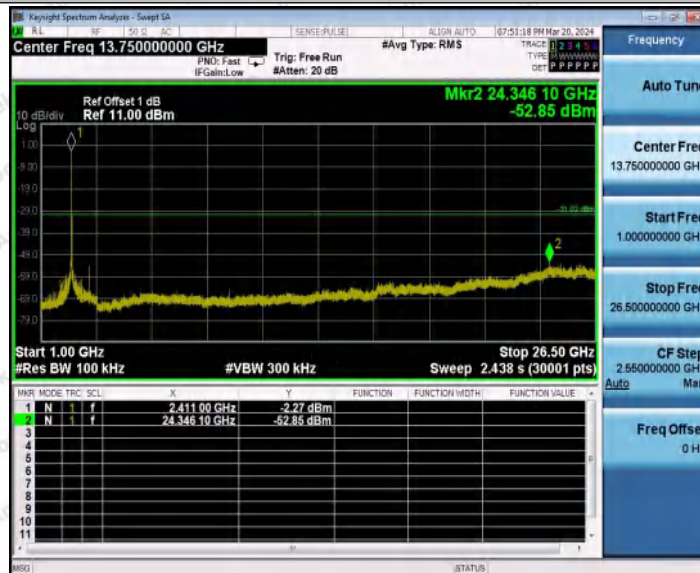
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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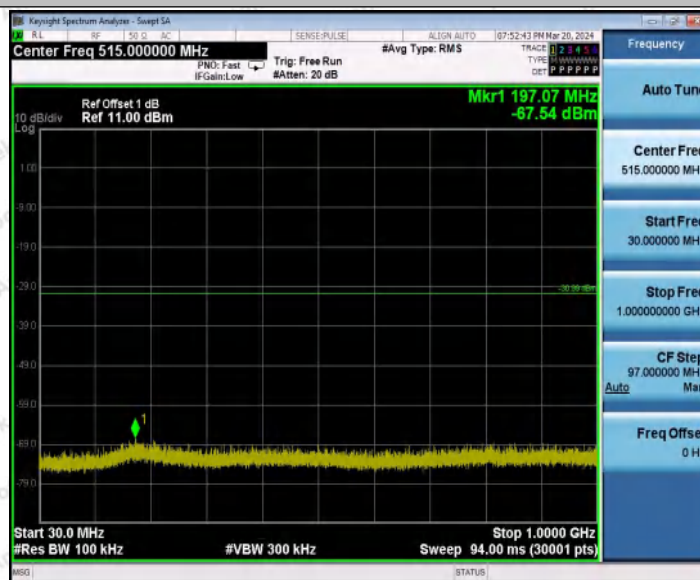


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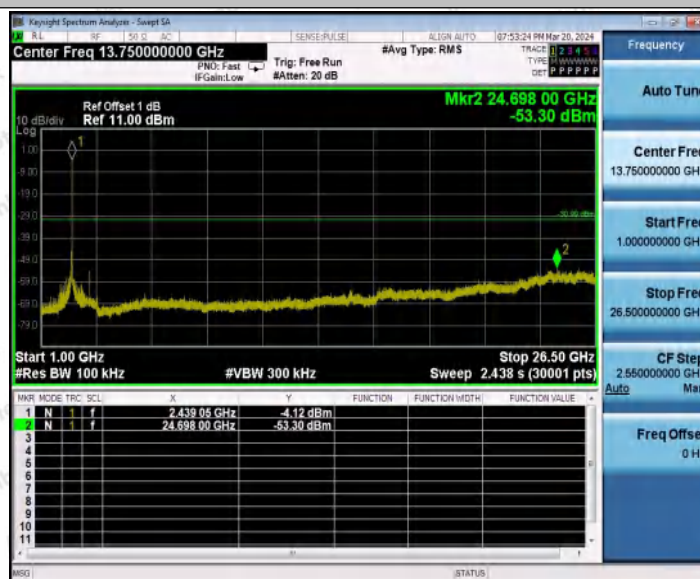




11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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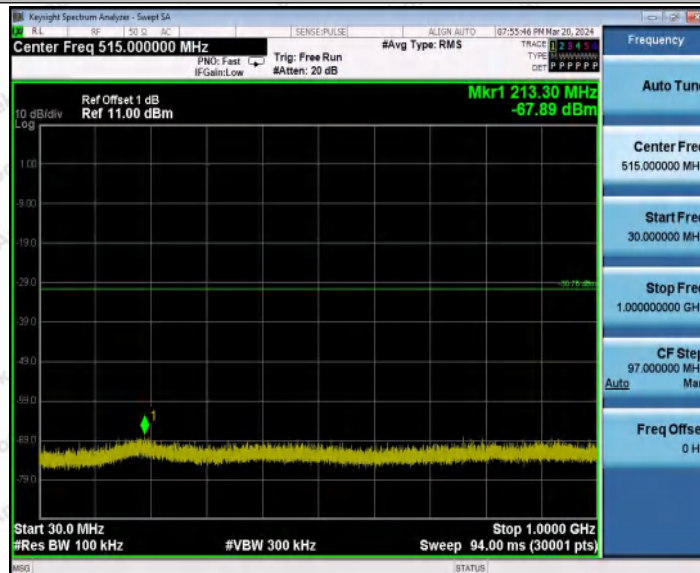
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500

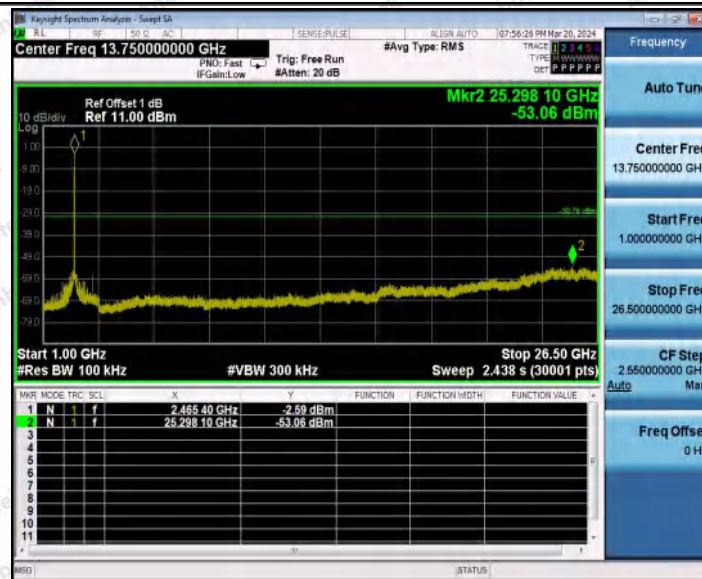
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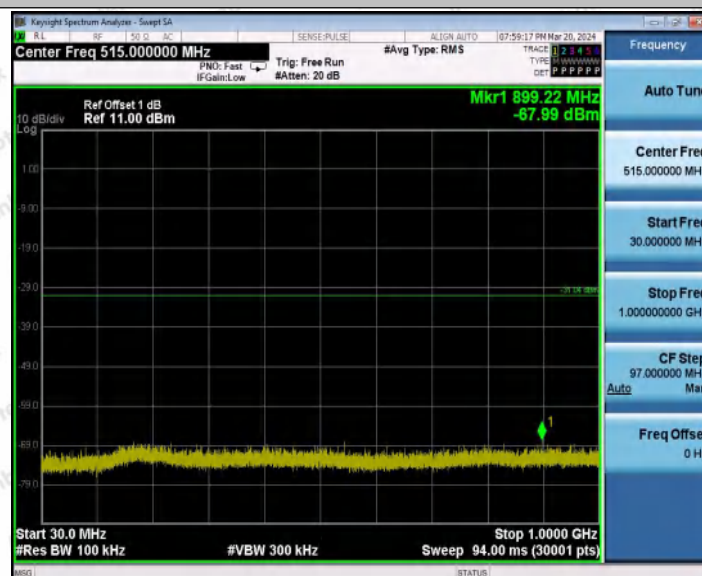




11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



Shenzhen Anbotek Compliance Laboratory Limited

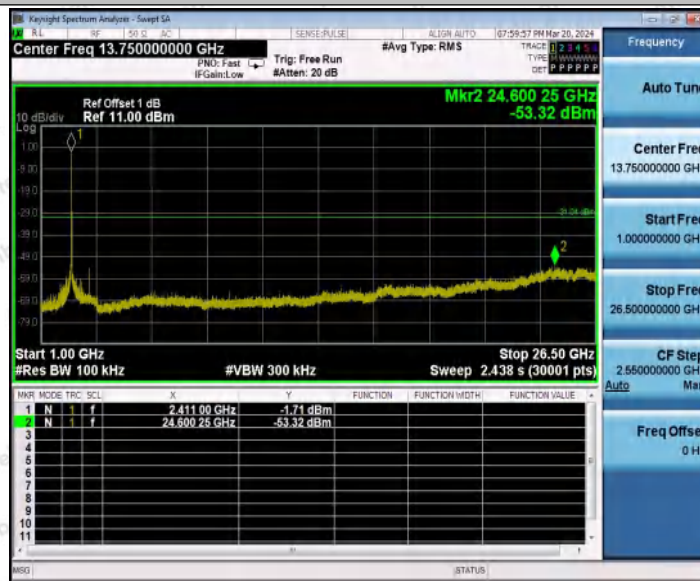
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

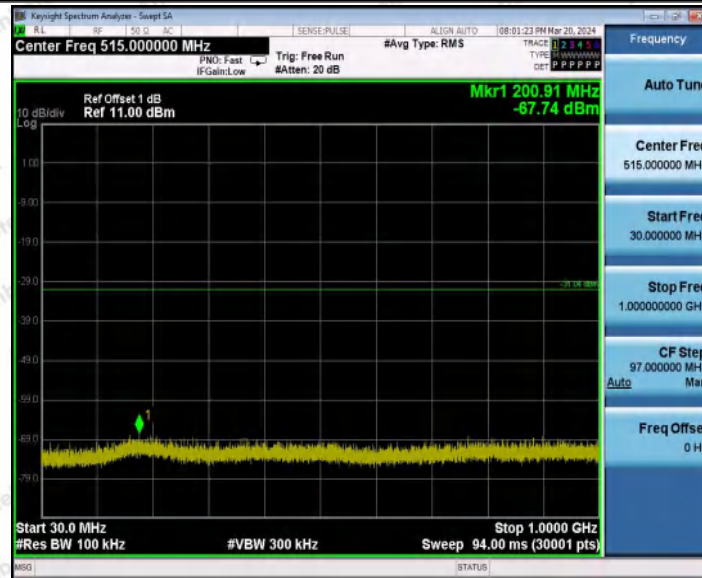
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

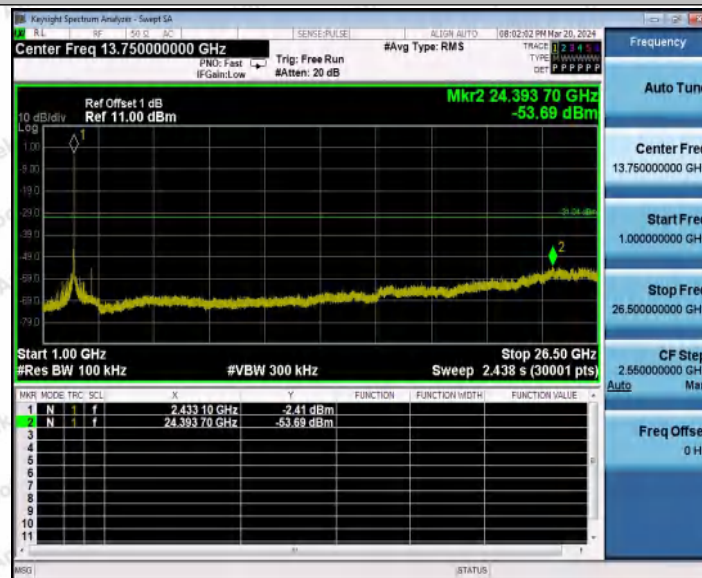


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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



Shenzhen Anbotek Compliance Laboratory Limited

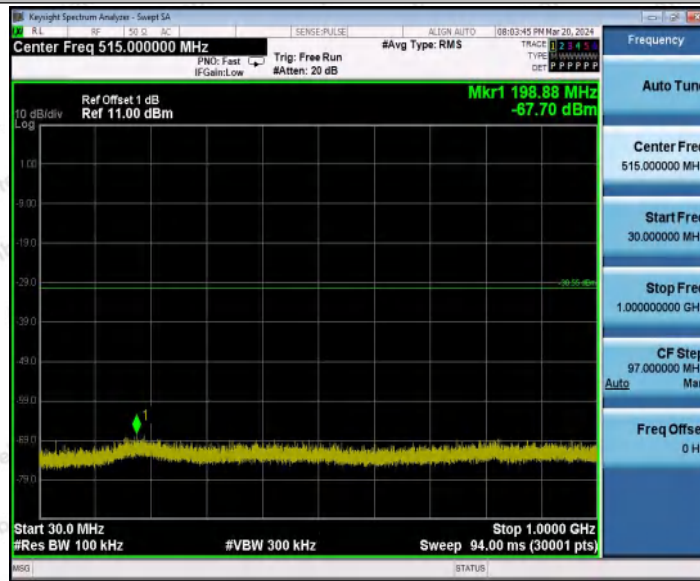
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



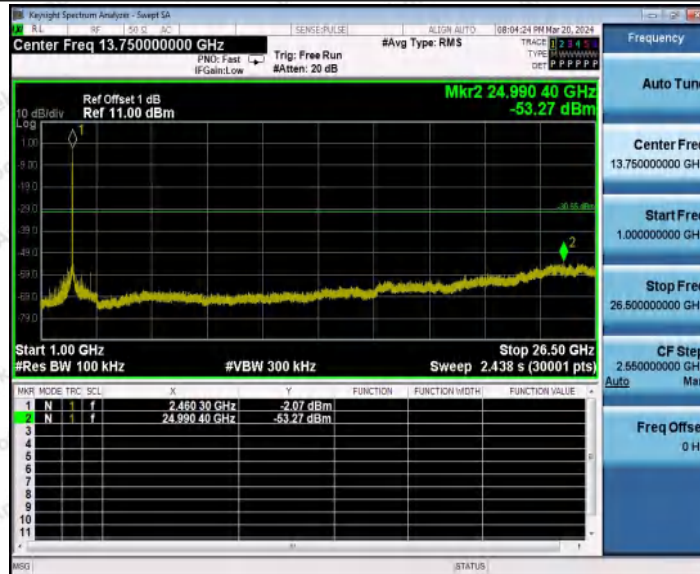
Hotline
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11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_0~Reference

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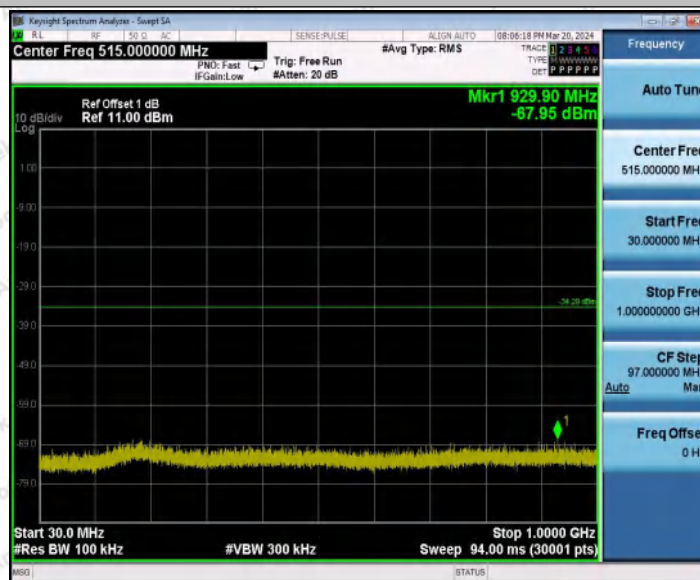


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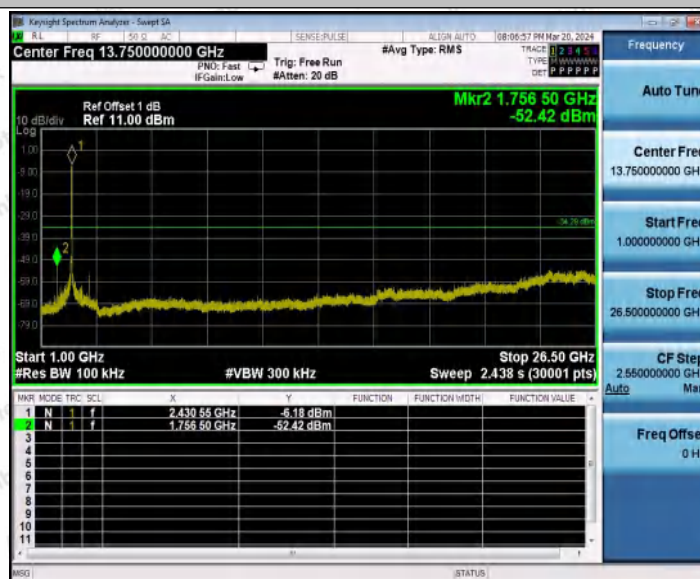




11N40SISO_Ant1_2422_30~1000



11N40SISO_Ant1_2422_1000~26500



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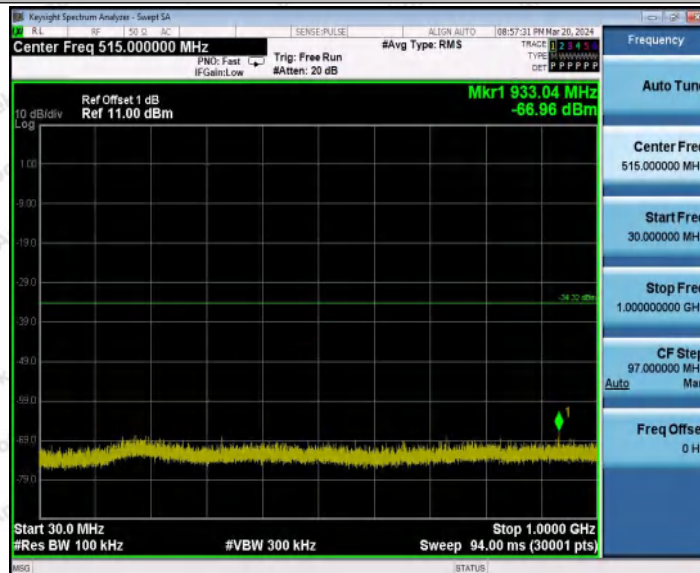
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11N40SISO_Ant1_2437_30~1000



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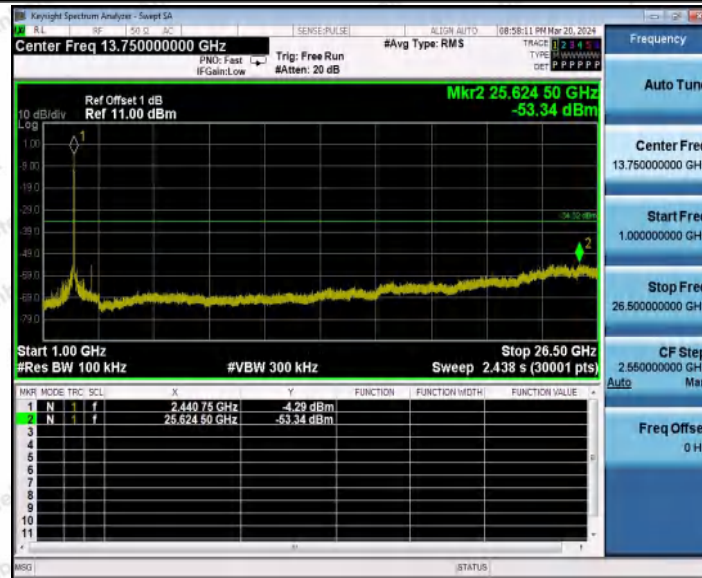
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



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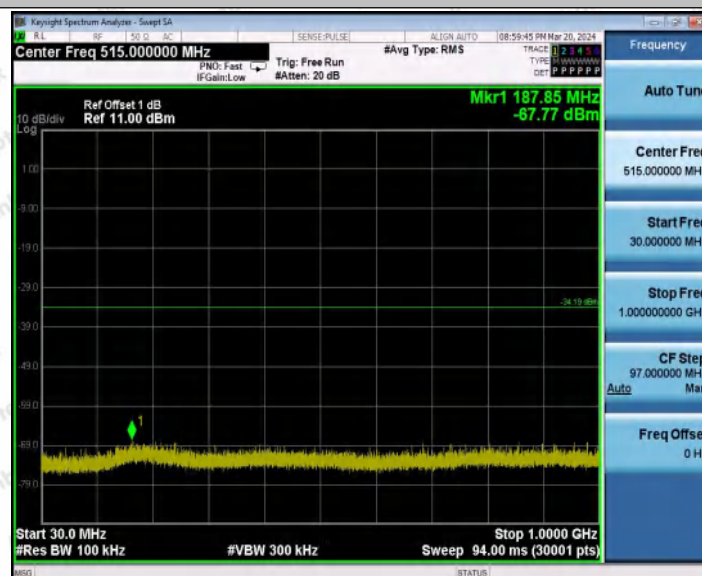




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11N40SISO_Ant1_2452_30~1000



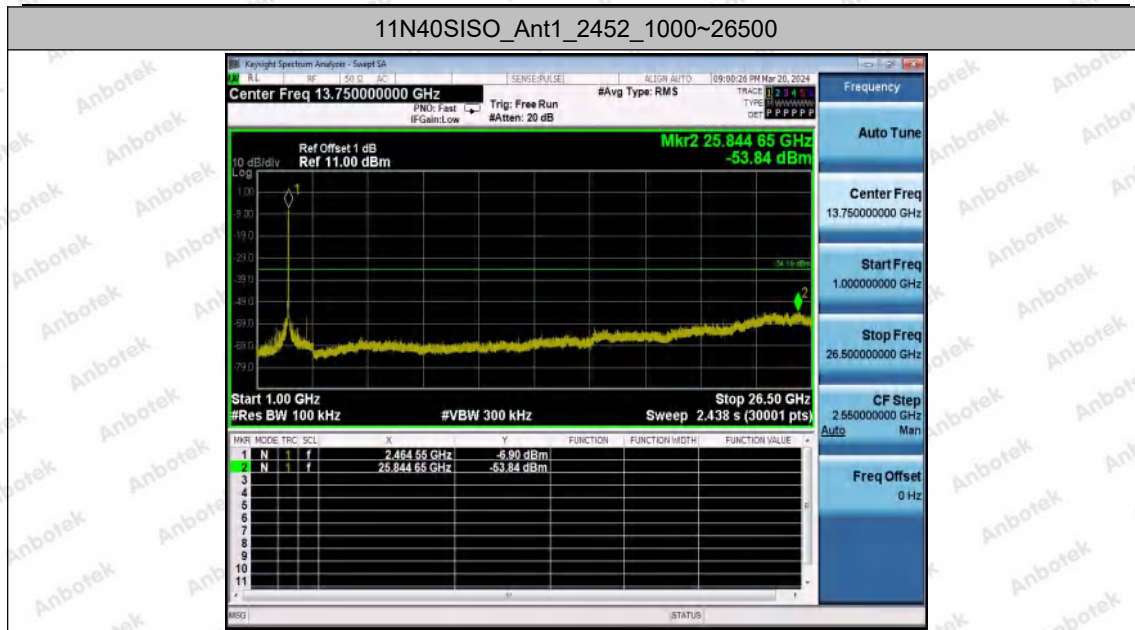
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Appendix G: Duty Cycle

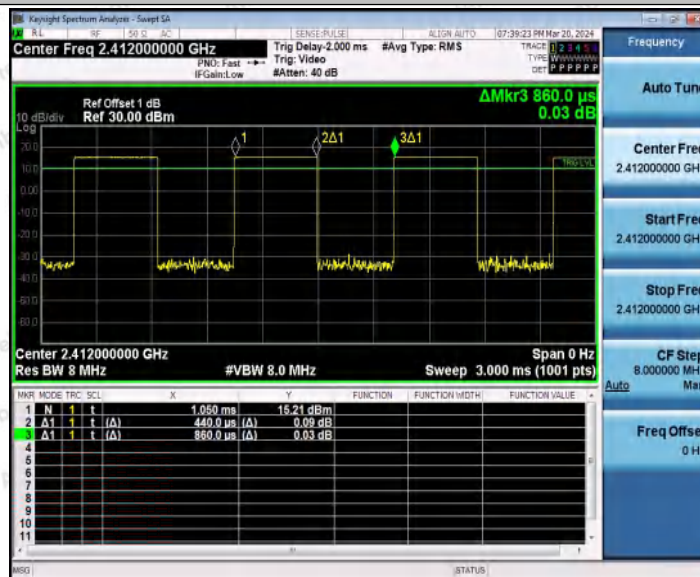
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	0.44	0.86	51.16	2.91
		2437	0.45	0.86	52.33	2.81
		2462	0.44	0.86	51.16	2.91
11G	Ant1	2412	0.71	1.13	62.83	2.02
		2437	0.70	1.12	62.50	2.04
		2462	0.71	1.12	63.39	1.98
11N20SISO	Ant1	2412	0.68	1.09	62.39	2.05
		2437	0.68	1.09	62.39	2.05
		2462	0.67	1.09	61.47	2.11
11N40SISO	Ant1	2422	0.58	0.99	58.59	2.32
		2437	0.58	1.00	58.00	2.37
		2452	0.58	1.00	58.00	2.37

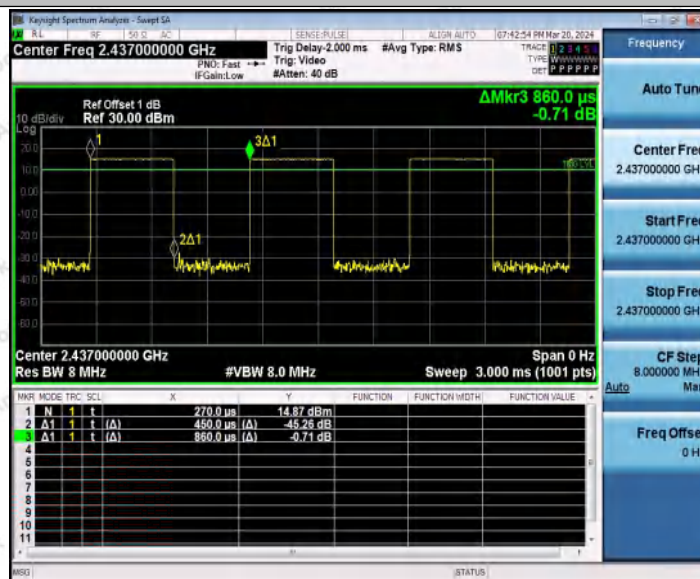


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

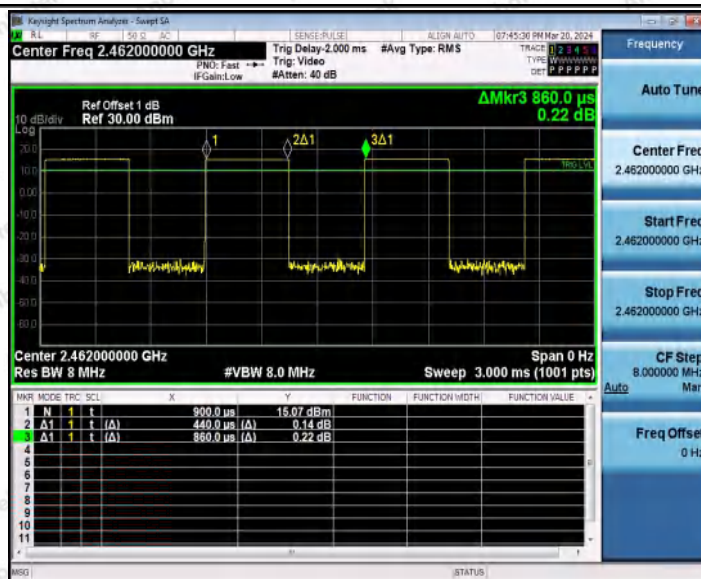
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

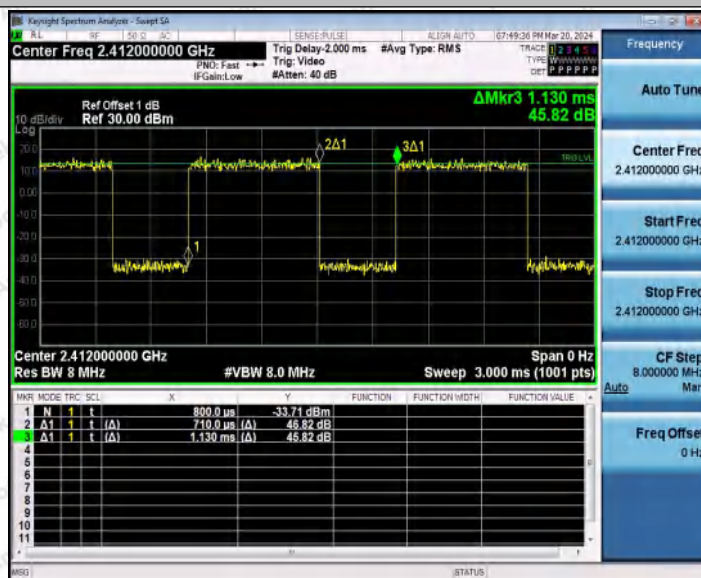


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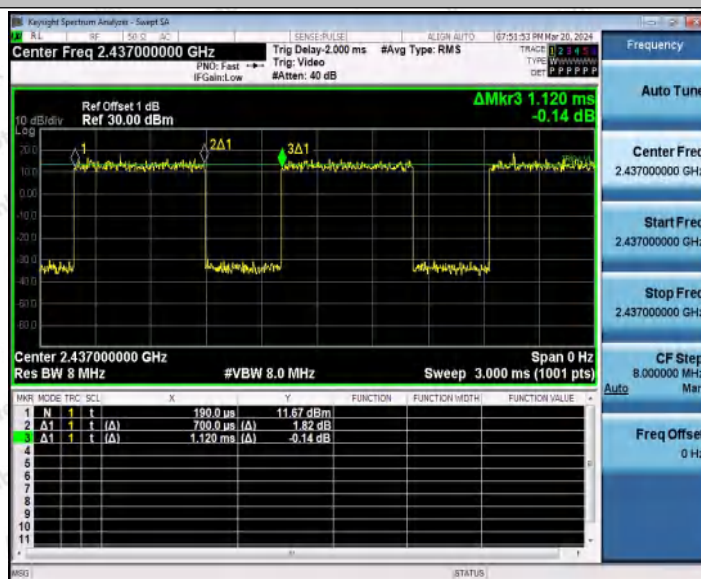




11G_Ant1_2412



11G_Ant1_2437



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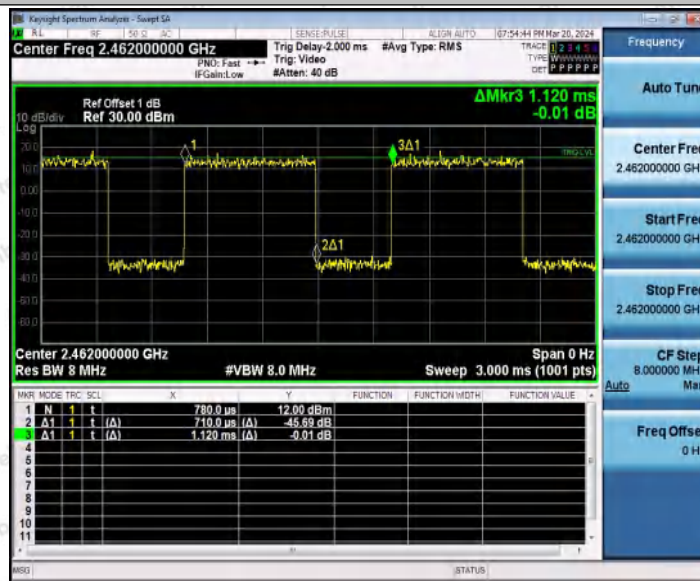
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



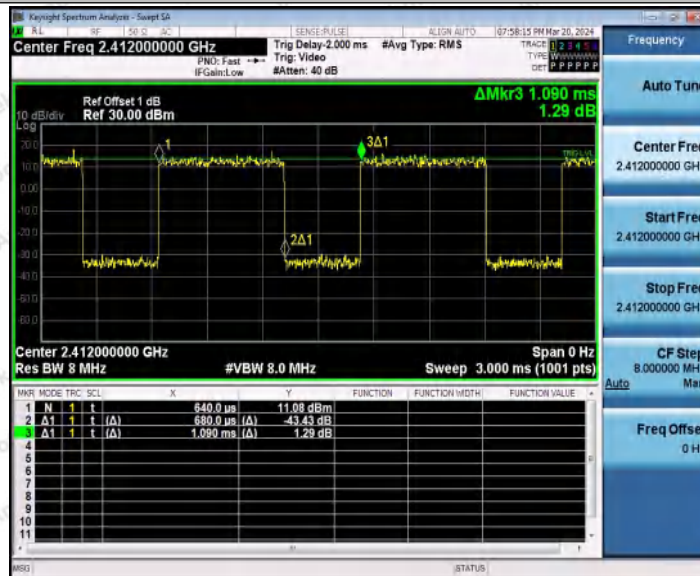
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

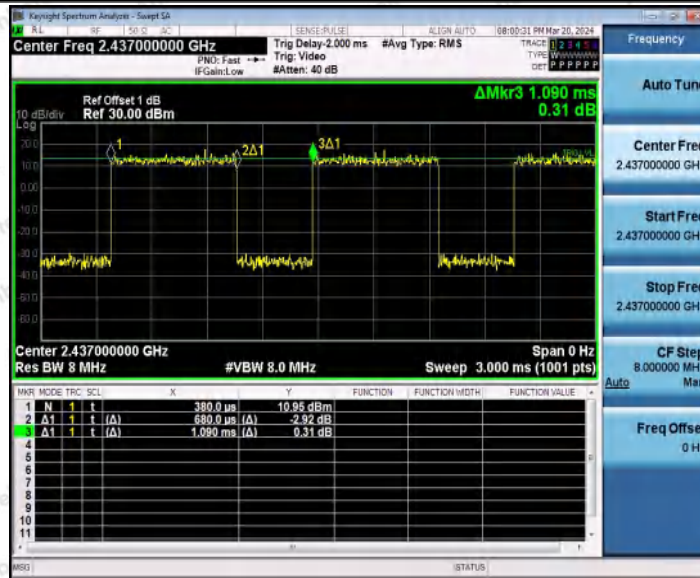
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

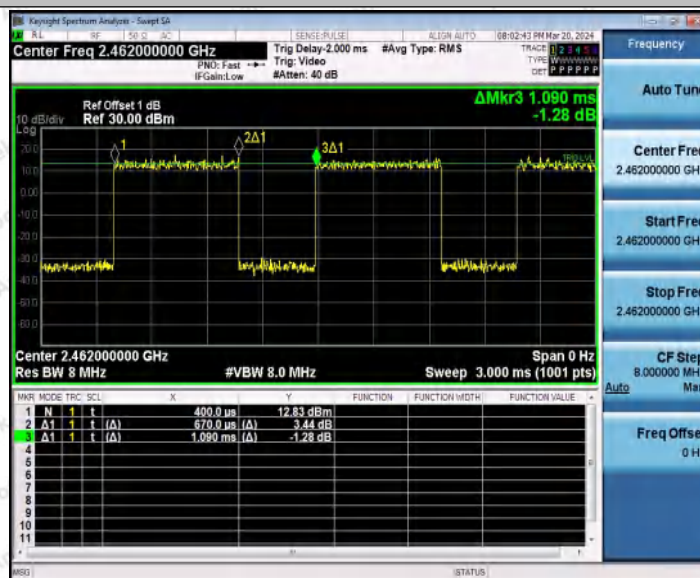


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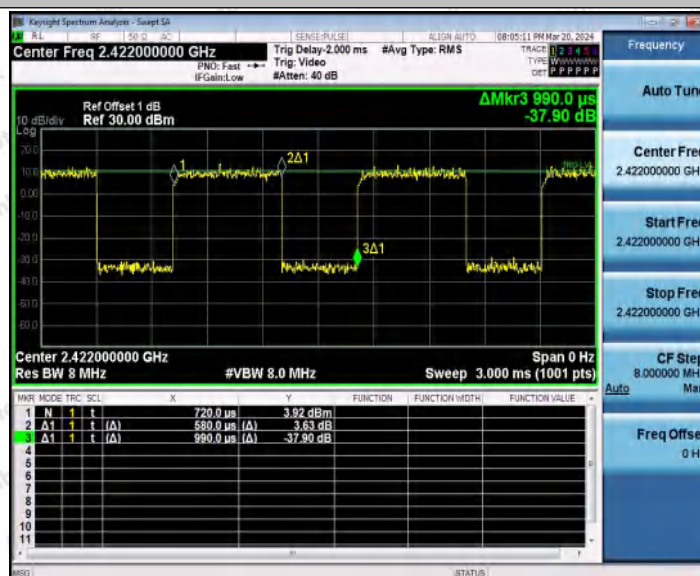




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



Shenzhen Anbotek Compliance Laboratory Limited

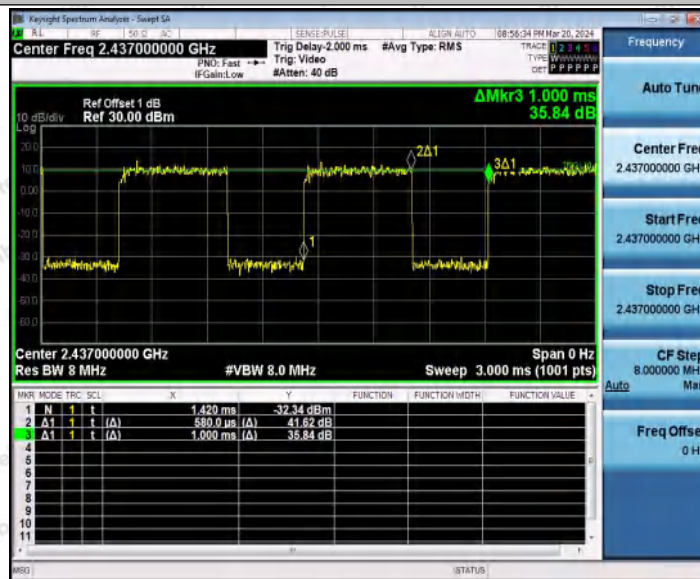
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



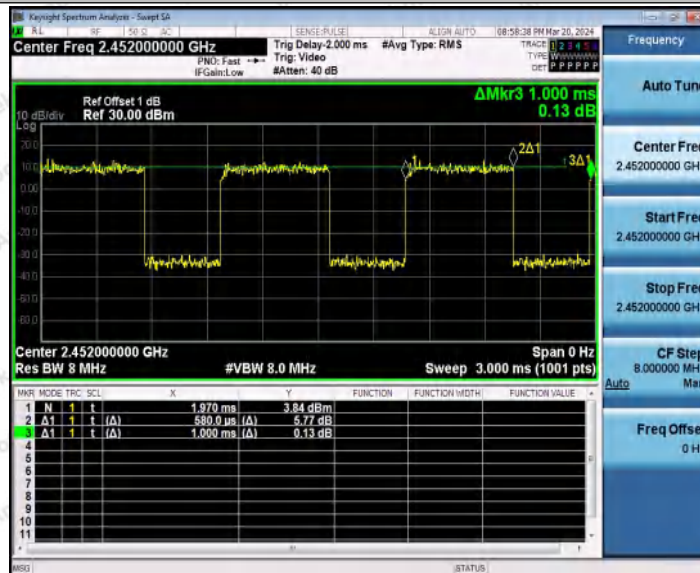
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



---END---

