

Appendix Test Data

Report No.:	18220WC40054501	Test Sample No.:	1-2-2
Start Test Date:	2024.2.20	Finish Test Date:	2024.2.21
Test Engineer:	<i>Joker Wong</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.3°C	Relative Humidity:	47%
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	10.080	2406.960	2417.040	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.400	2428.800	2445.200	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
		2437	17.640	2428.200	2445.840	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant1	2422	35.920	2403.840	2439.760	0.5	PASS
		2437	35.840	2418.920	2454.760	0.5	PASS
		2452	36.000	2433.920	2469.920	0.5	PASS

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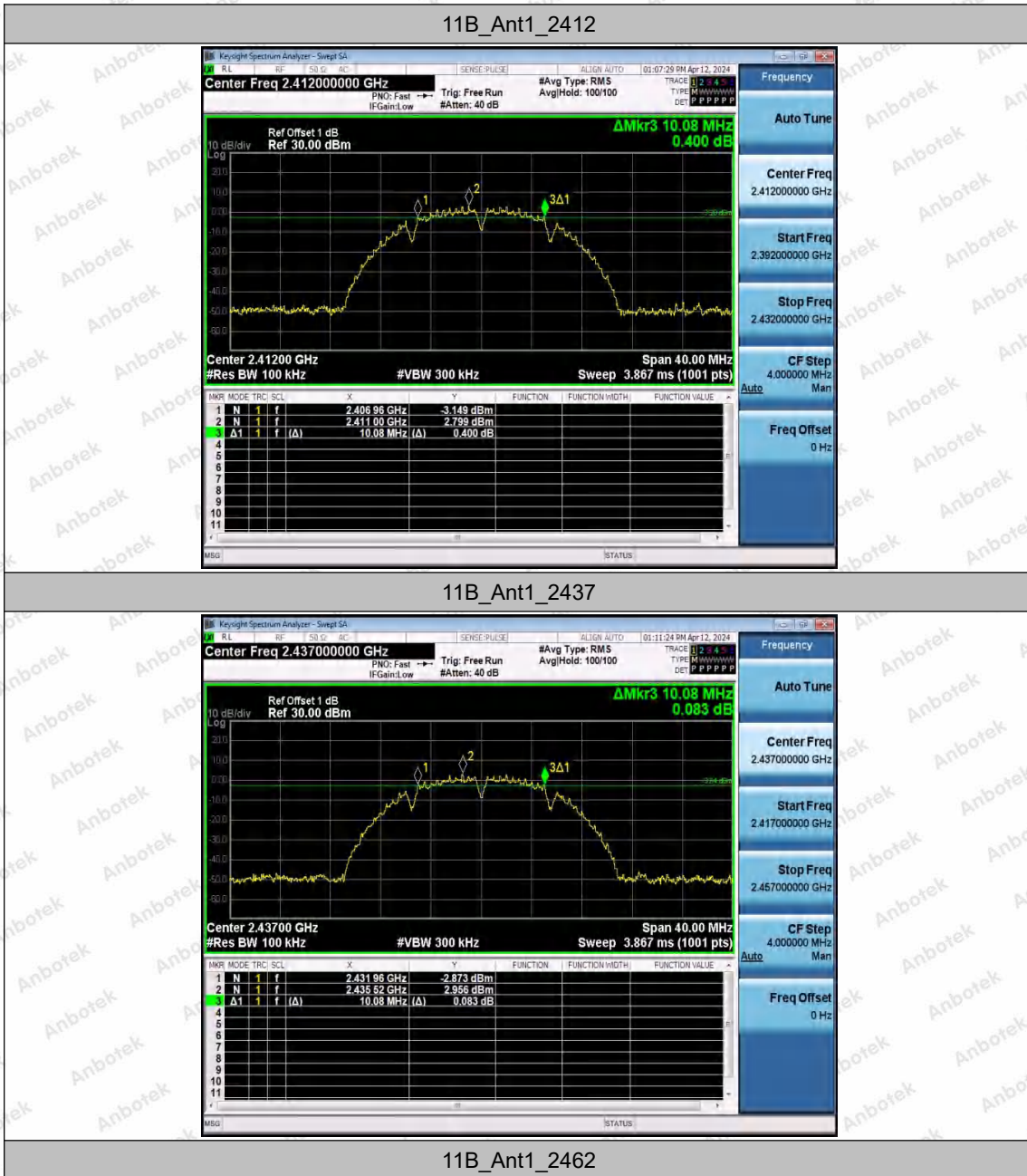
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Test Graphs



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11G_Ant1_2412



11G_Ant1_2437

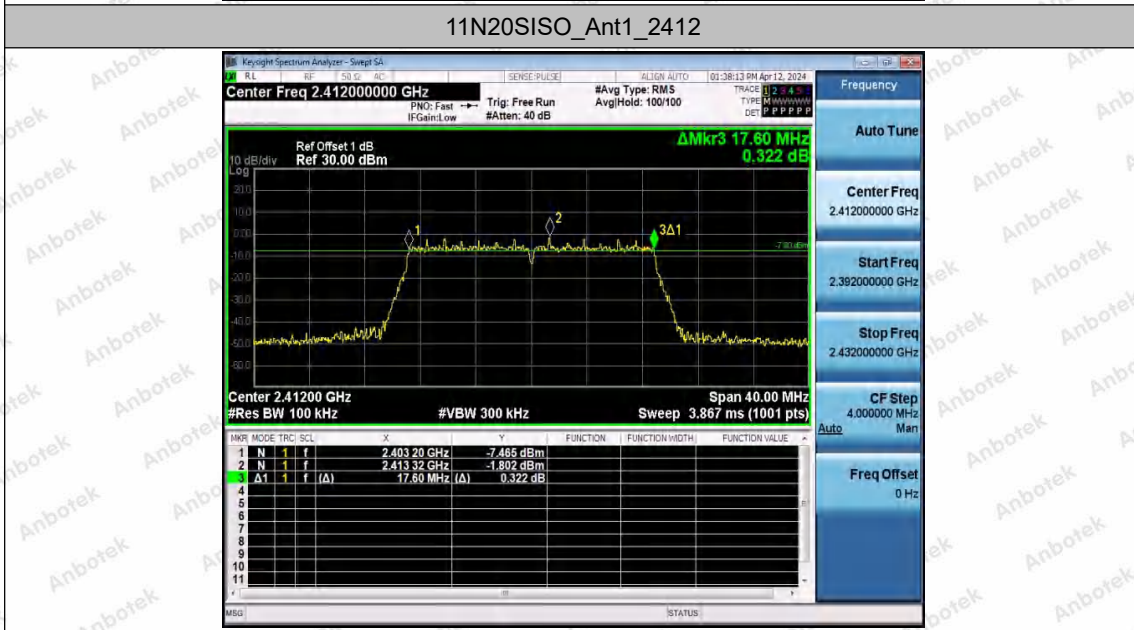
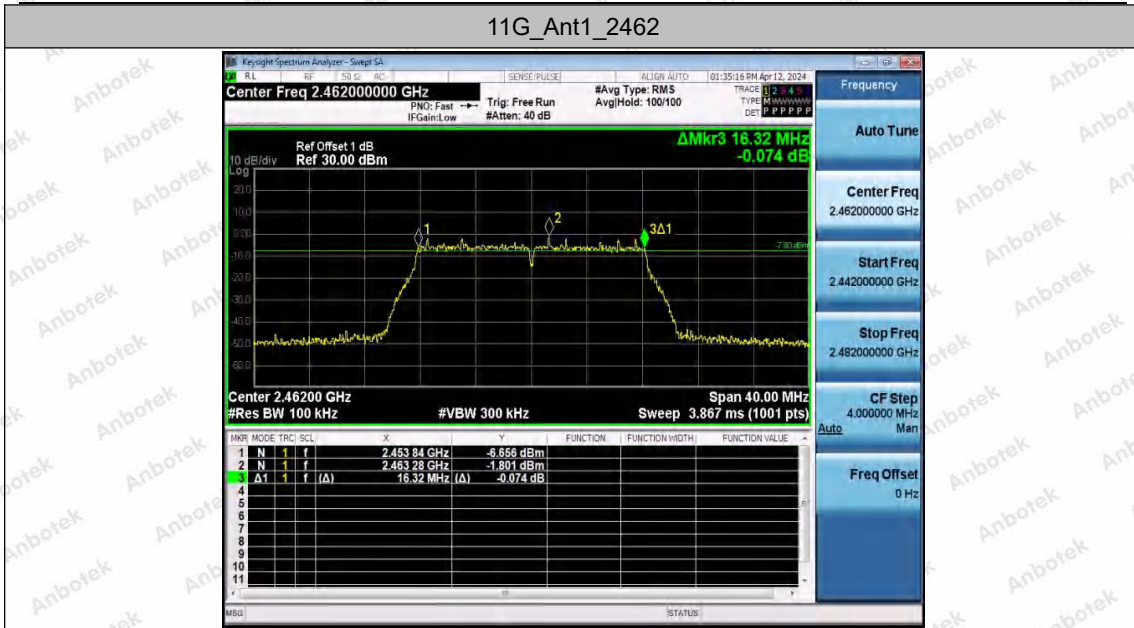


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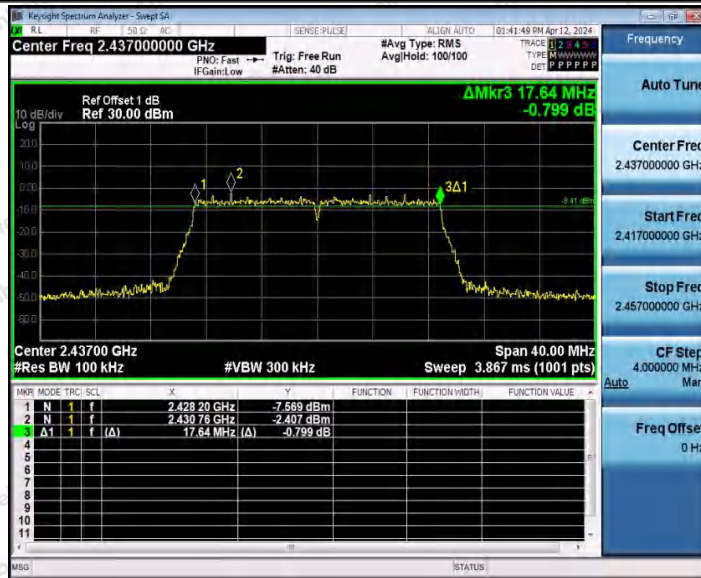
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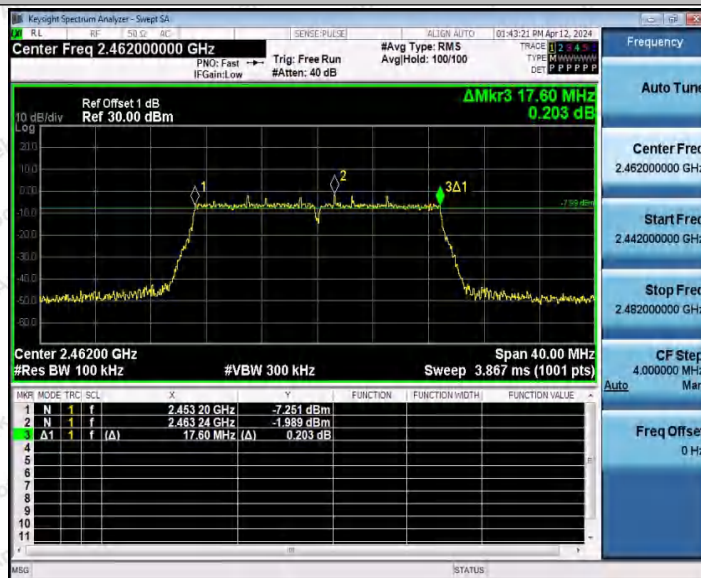
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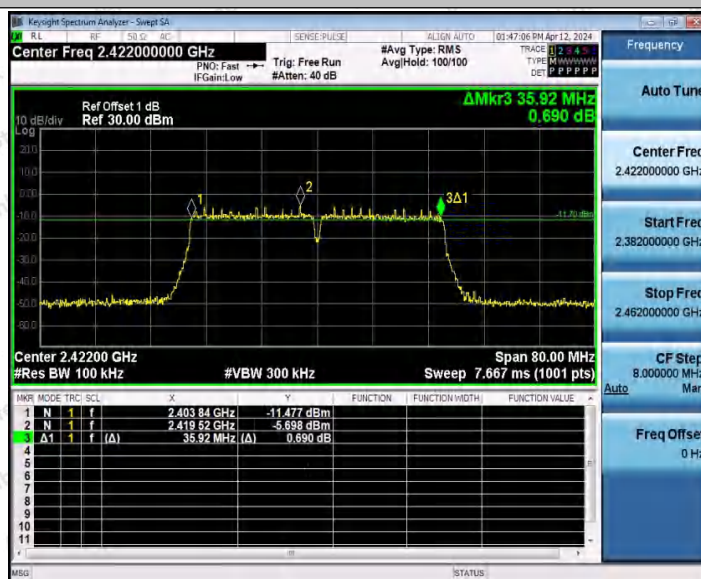




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



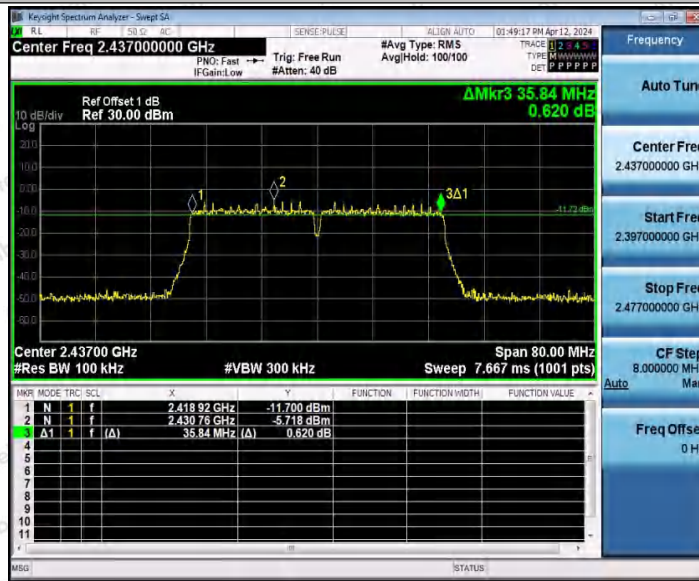
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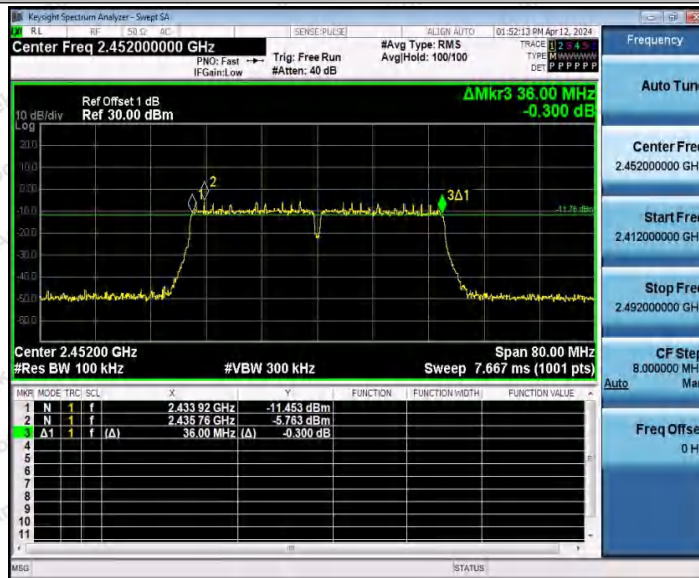
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11N40SISO_Ant1_2437



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	14.275	2404.8617	2419.1367	---	---
		2437	14.298	2429.8480	2444.1460	---	---
		2462	14.288	2454.8512	2469.1392	---	---
11G	Ant1	2412	17.036	2403.5120	2420.5480	---	---
		2437	17.160	2428.4137	2445.5737	---	---
		2462	17.136	2453.4557	2470.5917	---	---
11N20SISO	Ant1	2412	17.961	2403.0336	2420.9946	---	---
		2437	17.970	2428.0430	2446.0130	---	---
		2462	17.968	2453.0332	2471.0012	---	---
11N40SISO	Ant1	2422	36.366	2403.8146	2440.1806	---	---
		2437	36.368	2418.8458	2455.2138	---	---
		2452	36.311	2433.8527	2470.1637	---	---

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11G_Ant1_2412



11G_Ant1_2437



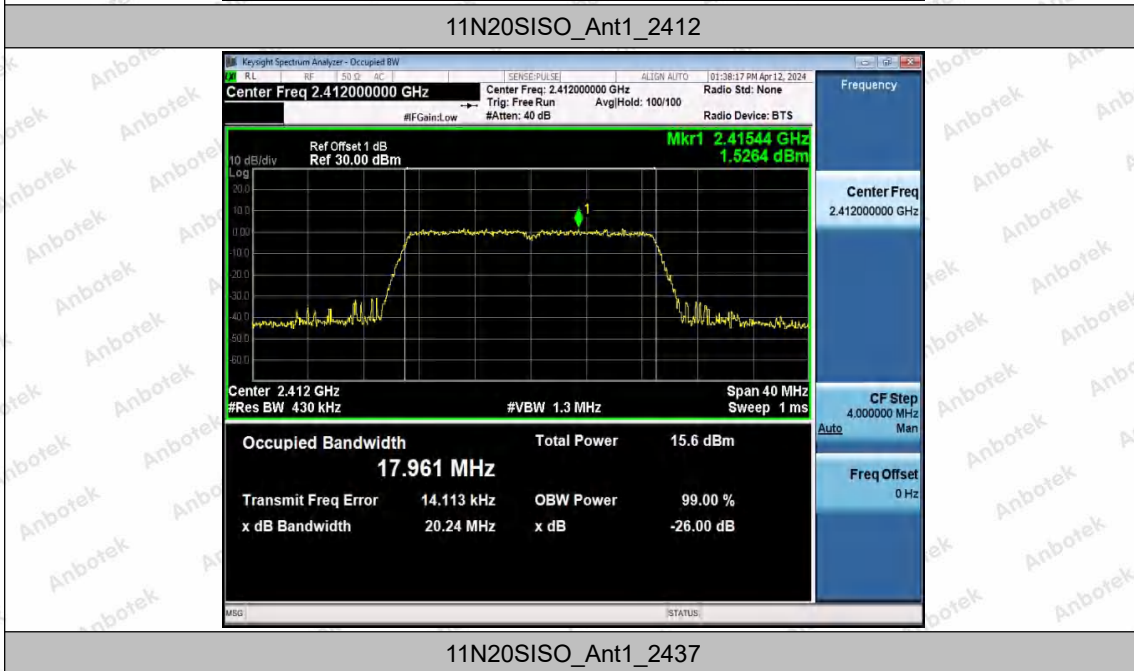
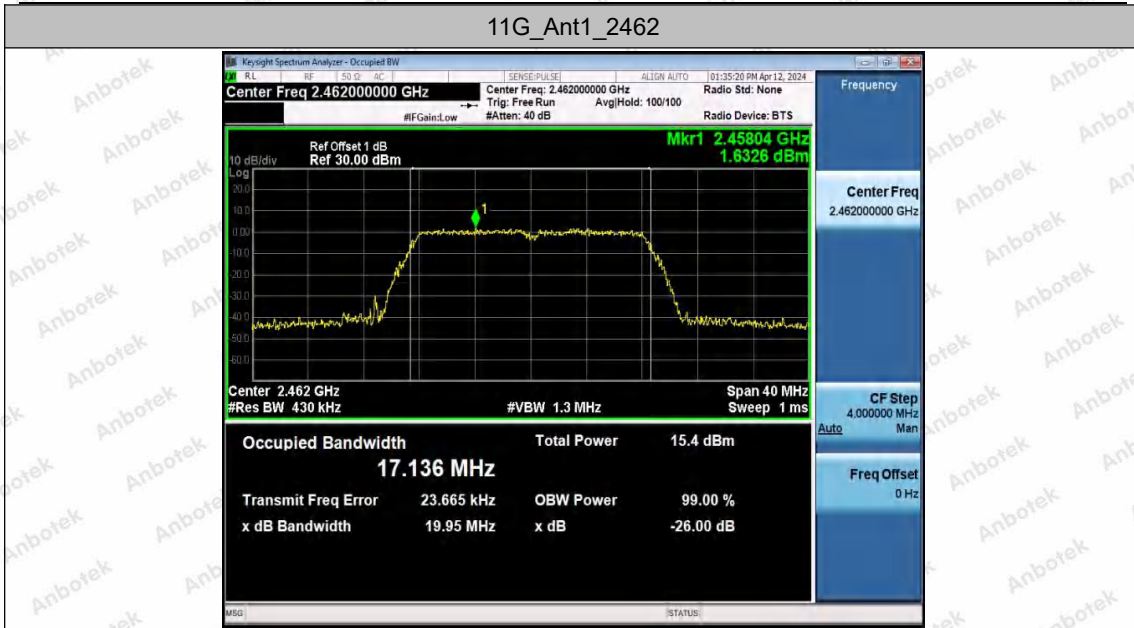
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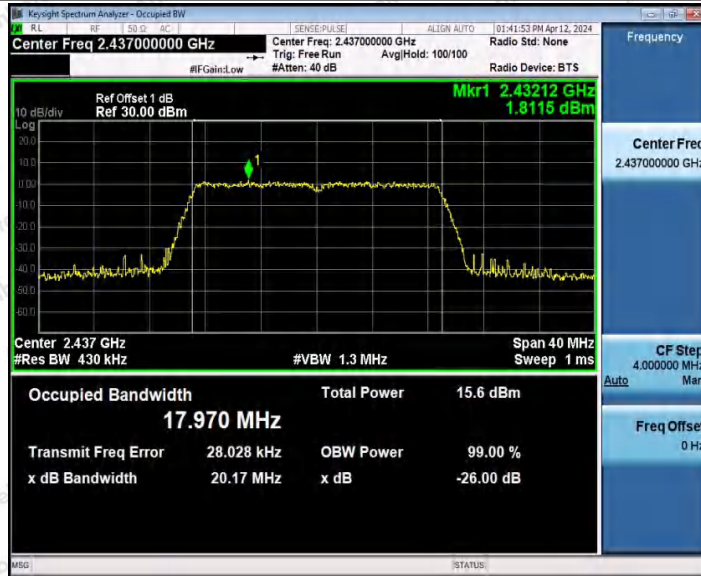
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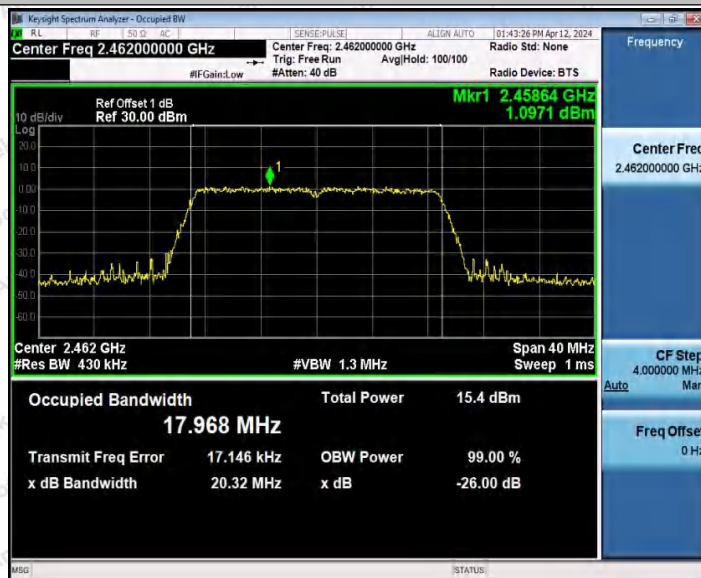
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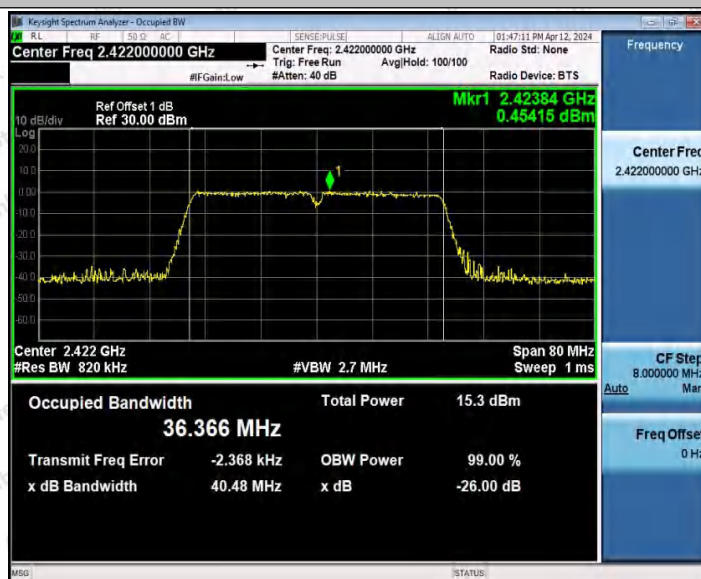




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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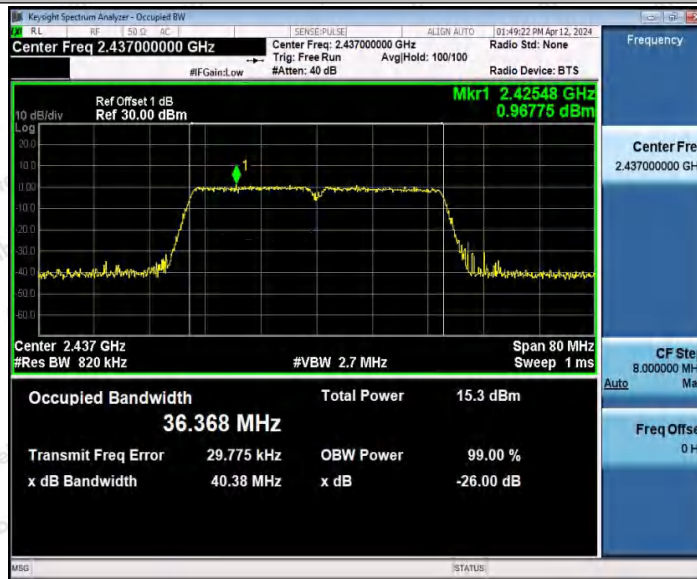
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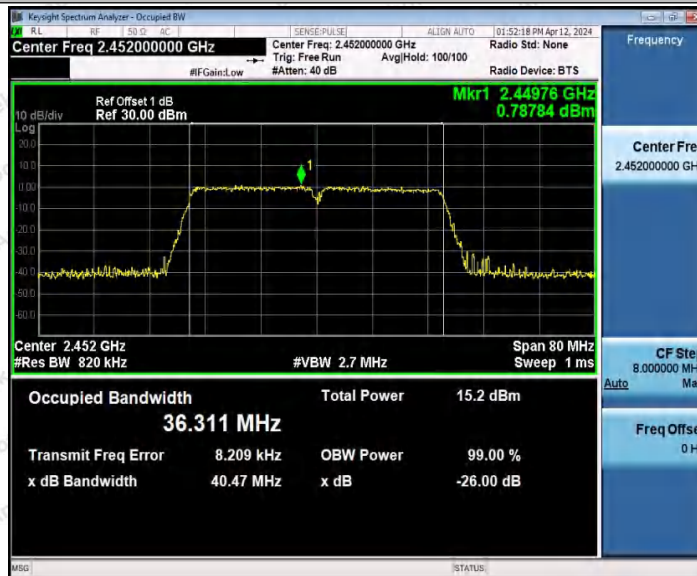
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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Appendix C: Maximum conducted output power

Test Result Average

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	13.63	≤30.00
		2437	13.63	≤30.00
		2462	13.61	≤30.00
11G	Ant1	2412	13.93	≤30.00
		2437	13.83	≤30.00
		2462	13.89	≤30.00
11N20SISO	Ant1	2412	14.04	≤30.00
		2437	14.04	≤30.00
		2462	13.88	≤30.00
11N40SISO	Ant1	2422	12.98	≤30.00
		2437	12.90	≤30.00
		2452	12.99	≤30.00

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

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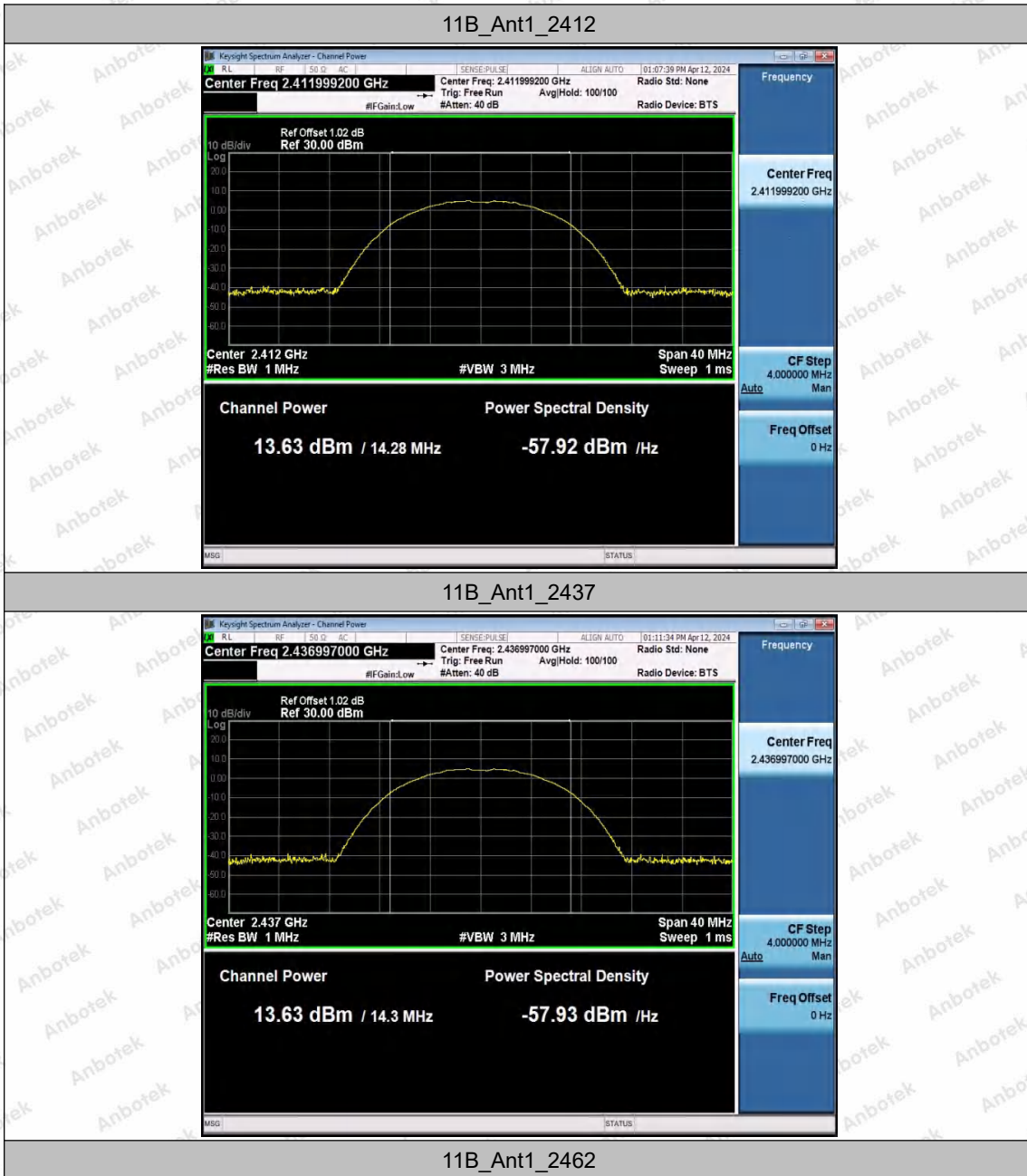
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Test Graphs

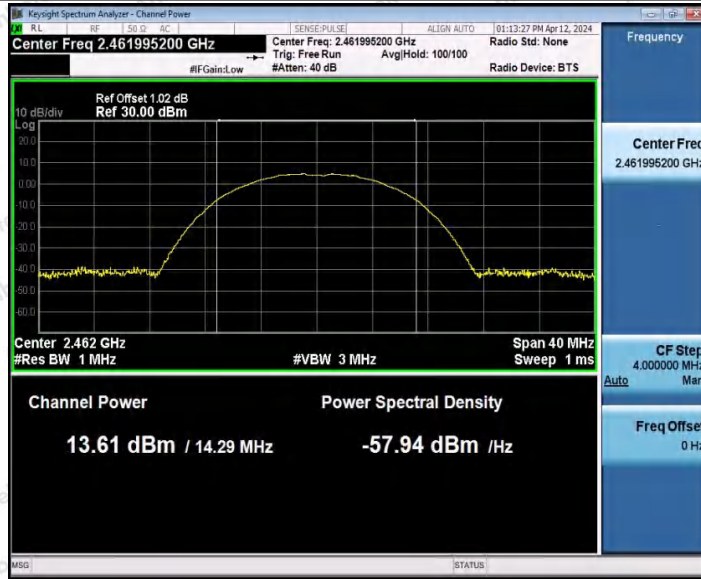


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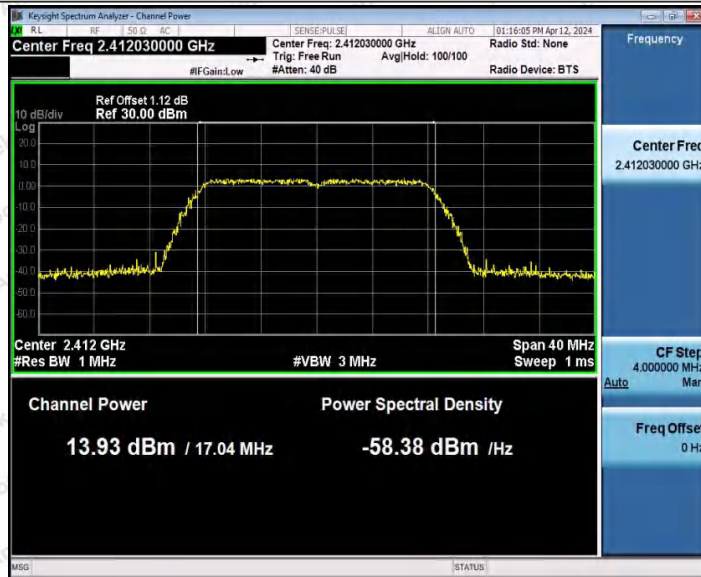
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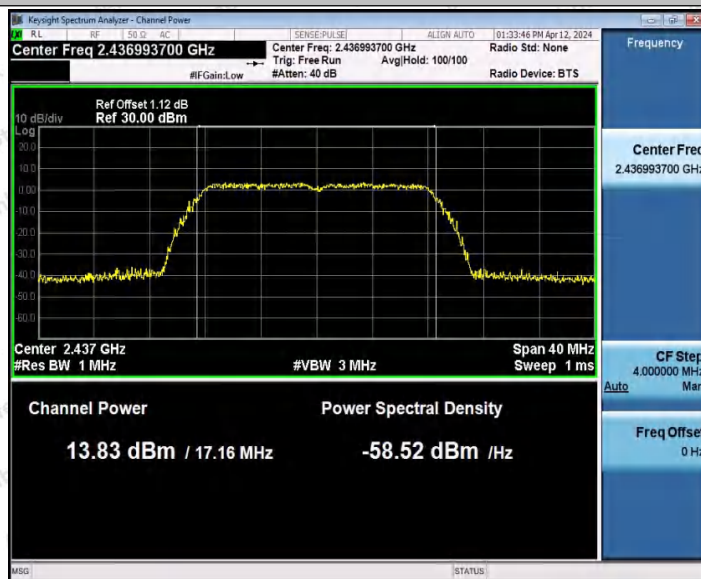




11G_Ant1_2412



11G_Ant1_2437



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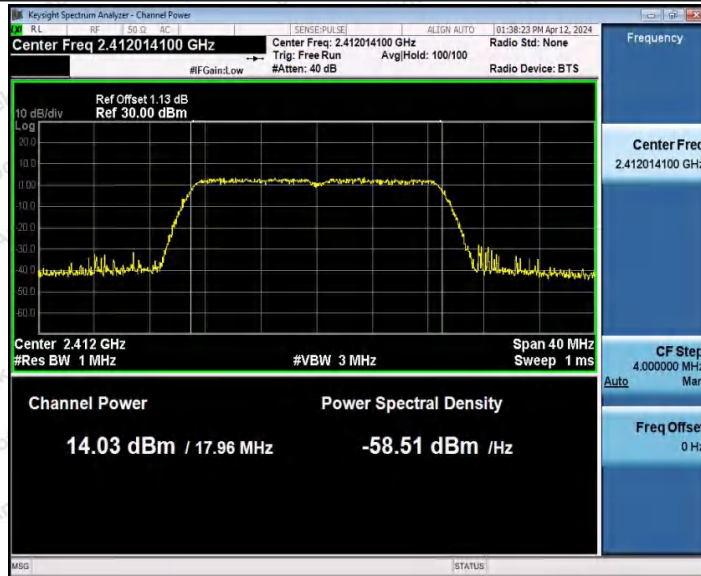
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

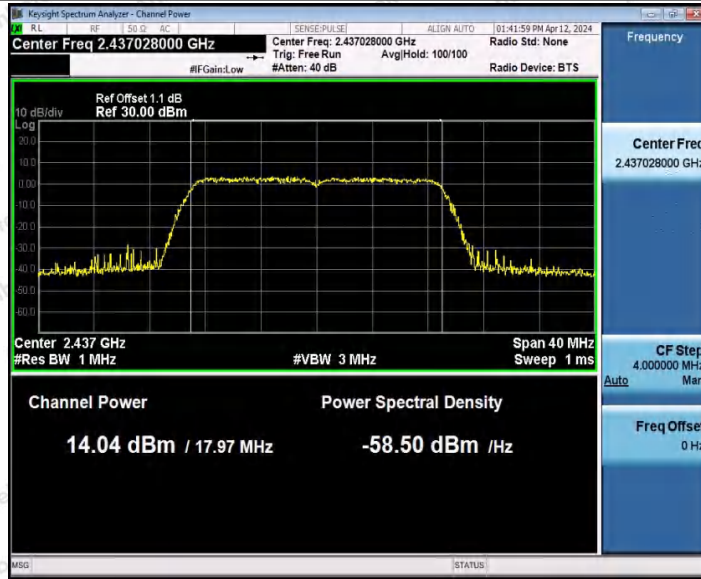
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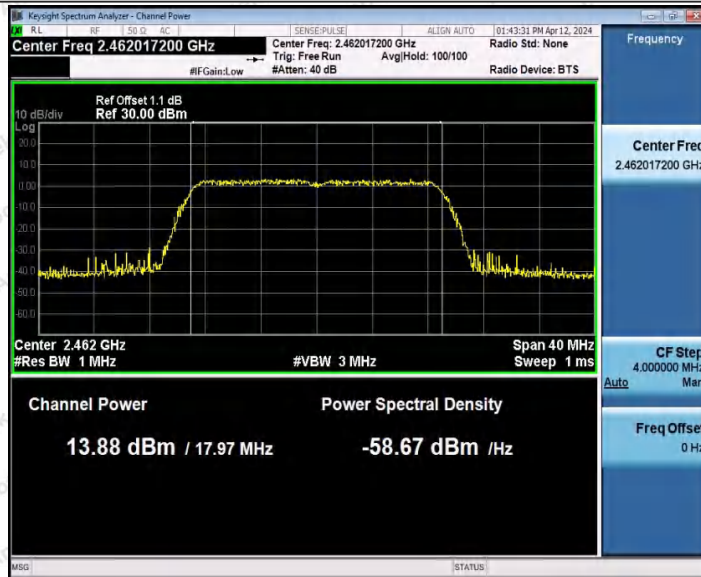


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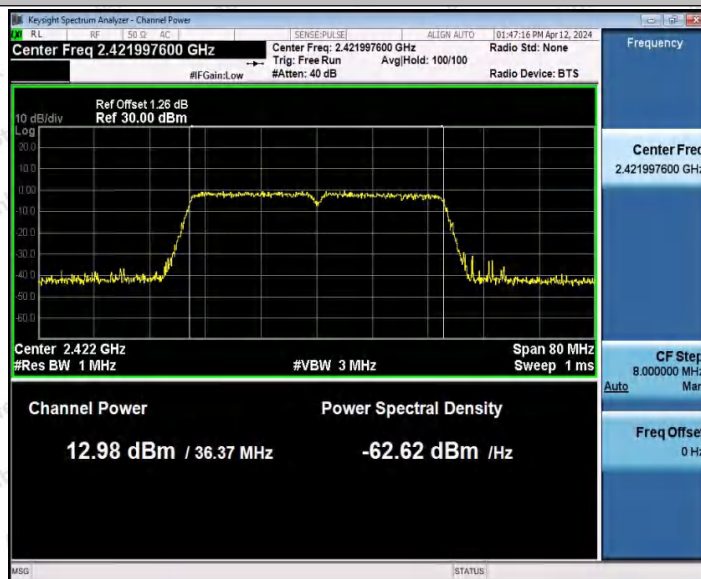




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



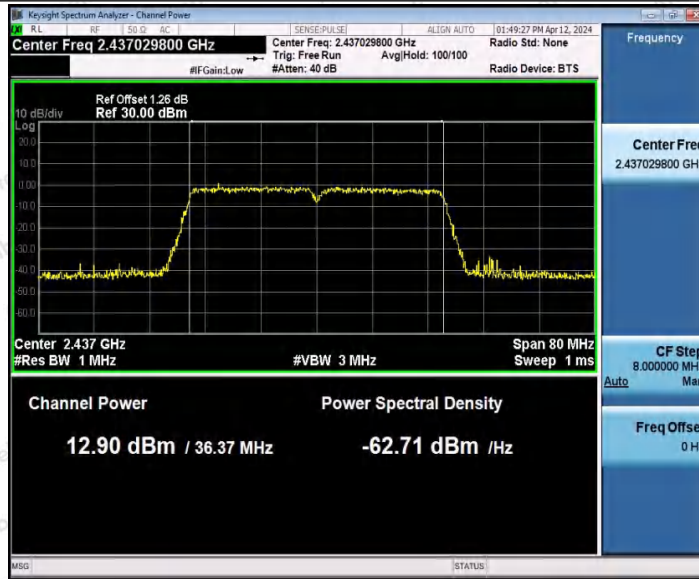
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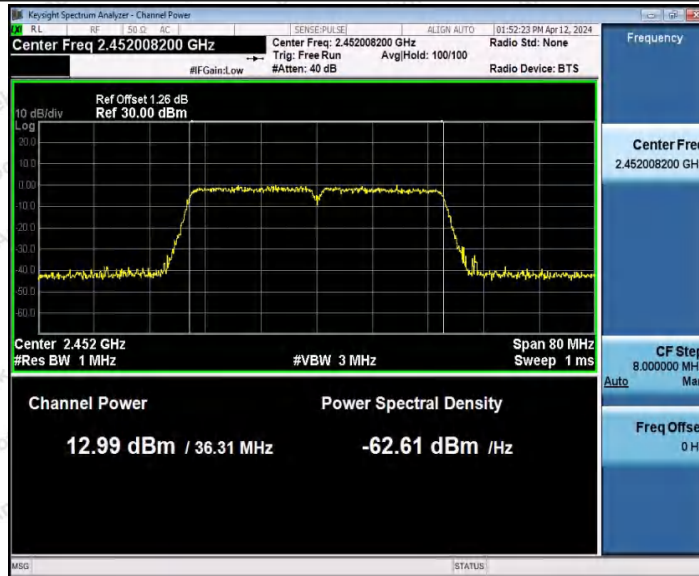
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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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]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-9.99	-19.99	≤8.00	PASS
		2437	-10.04	-20.04	≤8.00	PASS
		2462	-10.03	-20.03	≤8.00	PASS
11G	Ant1	2412	-14.51	-24.51	≤8.00	PASS
		2437	-15.10	-25.10	≤8.00	PASS
		2462	-14.95	-24.95	≤8.00	PASS
11N20SISO	Ant1	2412	-15.17	-25.17	≤8.00	PASS
		2437	-15.17	-25.17	≤8.00	PASS
		2462	-14.73	-24.73	≤8.00	PASS
11N40SISO	Ant1	2422	-18.48	-28.48	≤8.00	PASS
		2437	-18.90	-28.90	≤8.00	PASS
		2452	-18.44	-28.44	≤8.00	PASS

Note:

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

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Test Graphs



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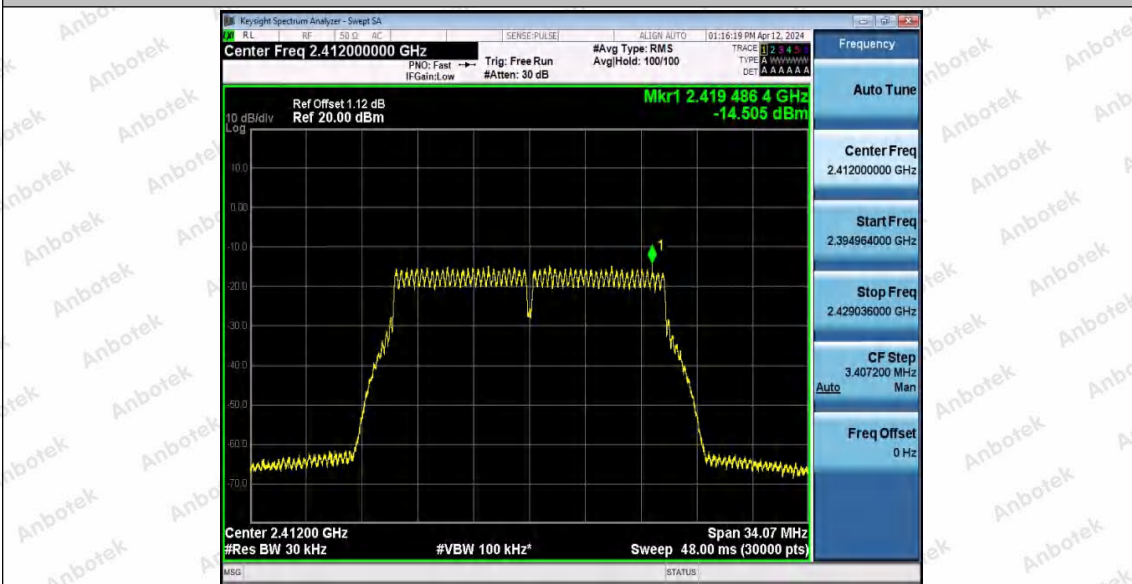
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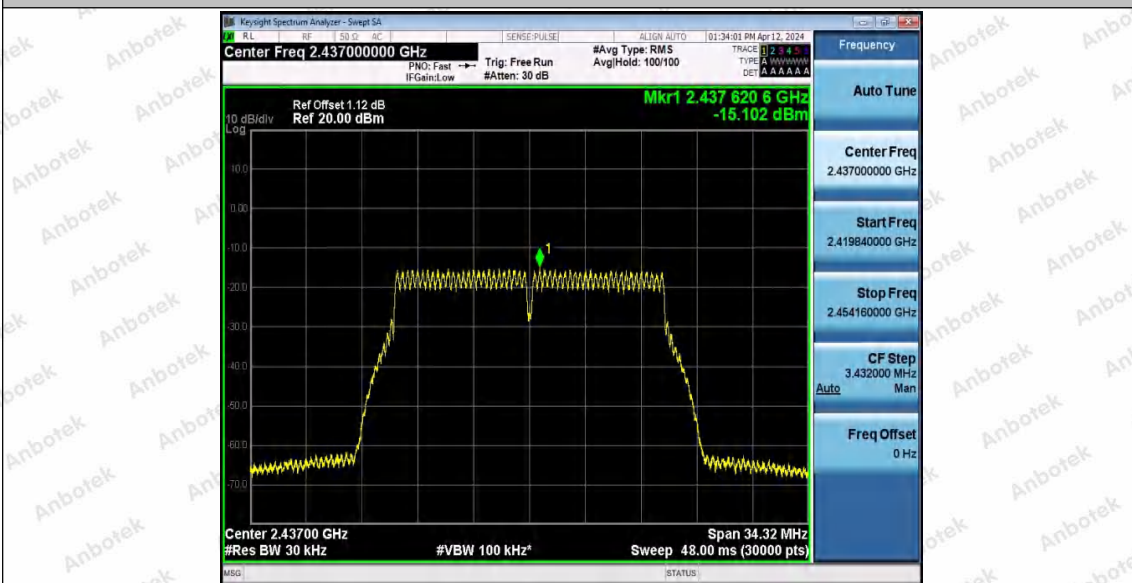




11G_Ant1_2412



11G_Ant1_2437



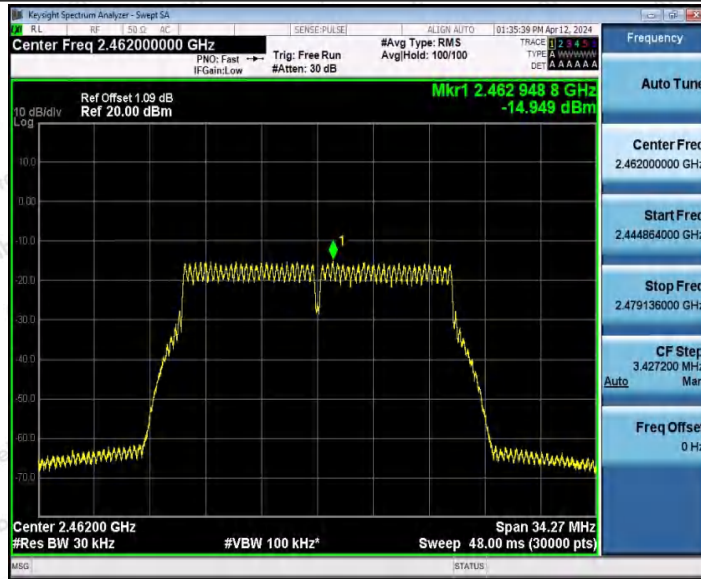
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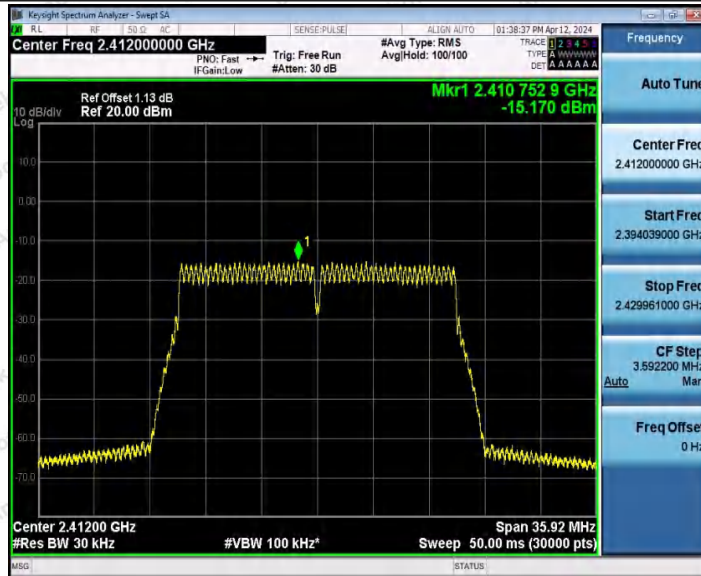
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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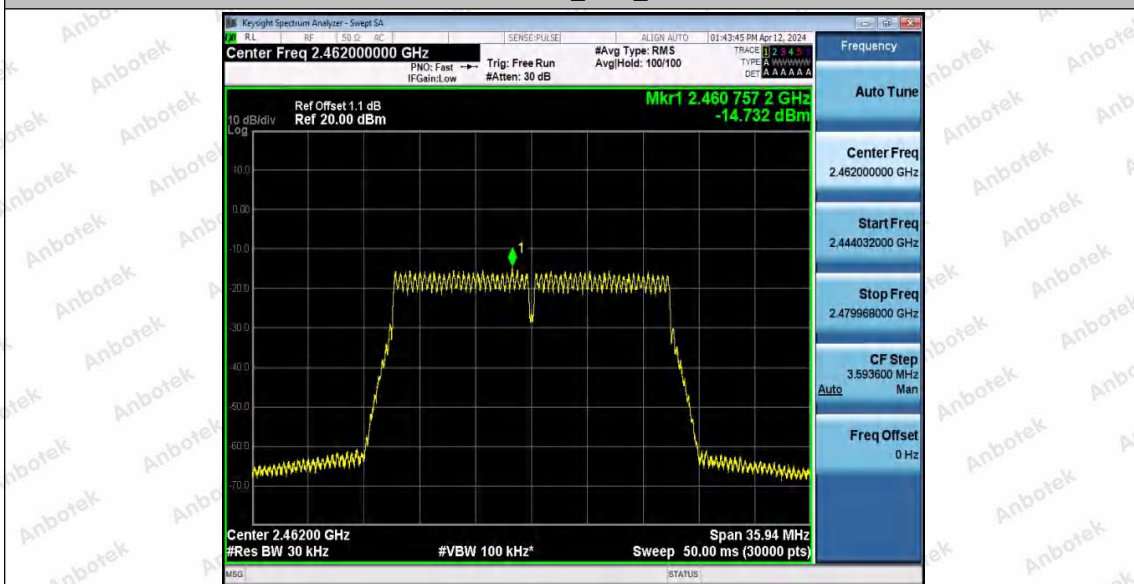
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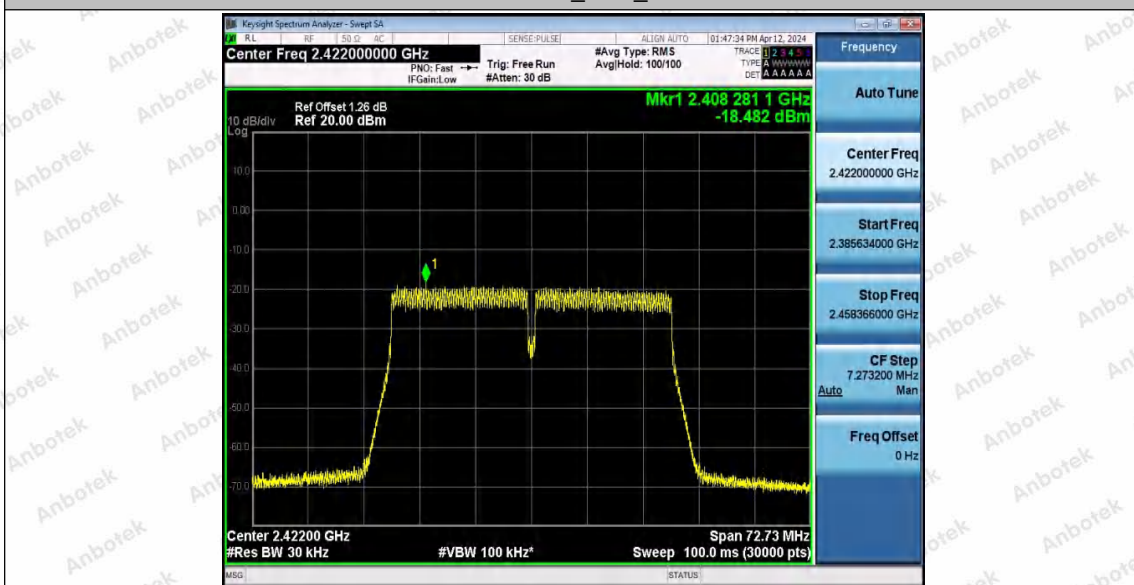




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



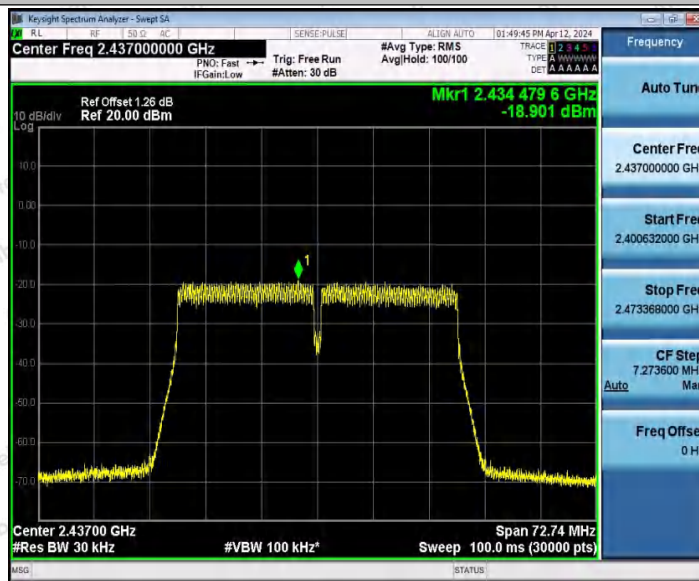
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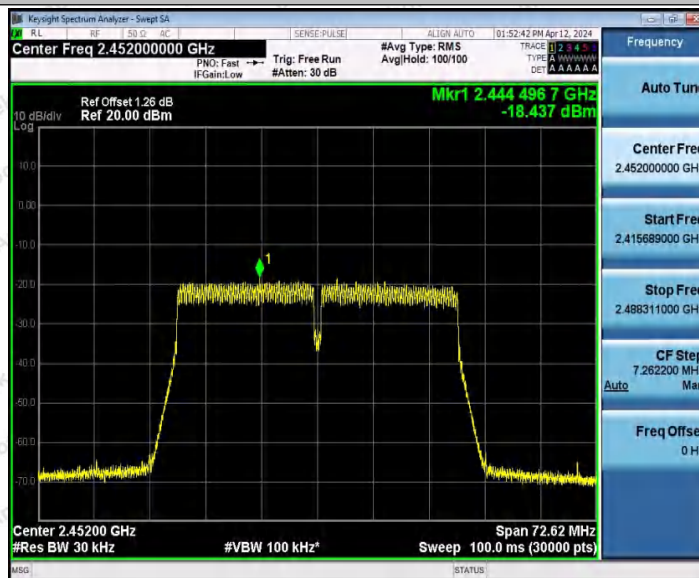
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11N40SISO_Ant1_2437



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	2.92	-48.75	≤-27.08	PASS
		High	2462	3.05	-54.75	≤-26.95	PASS
11G	Ant1	Low	2412	-1.77	-46.39	≤-31.77	PASS
		High	2462	-2.01	-53.7	≤-32.01	PASS
11N20SISO	Ant1	Low	2412	-1.56	-42.26	≤-31.56	PASS
		High	2462	-1.93	-53.42	≤-31.93	PASS
11N40SISO	Ant1	Low	2422	-5.76	-48.04	≤-35.76	PASS
		High	2452	-5.71	-49.45	≤-35.71	PASS

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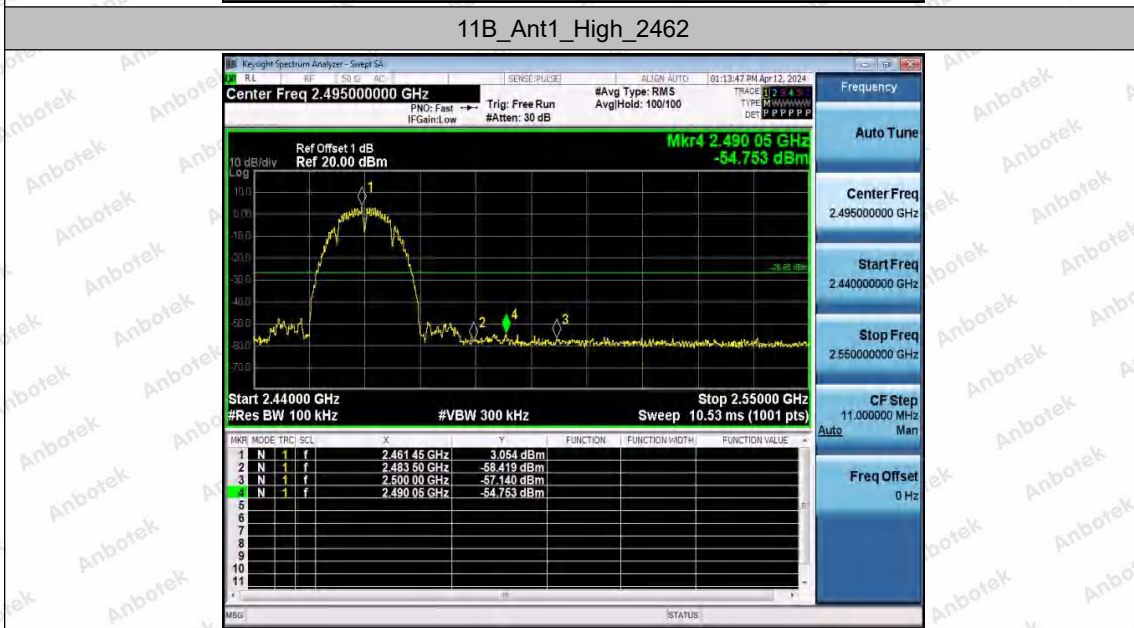
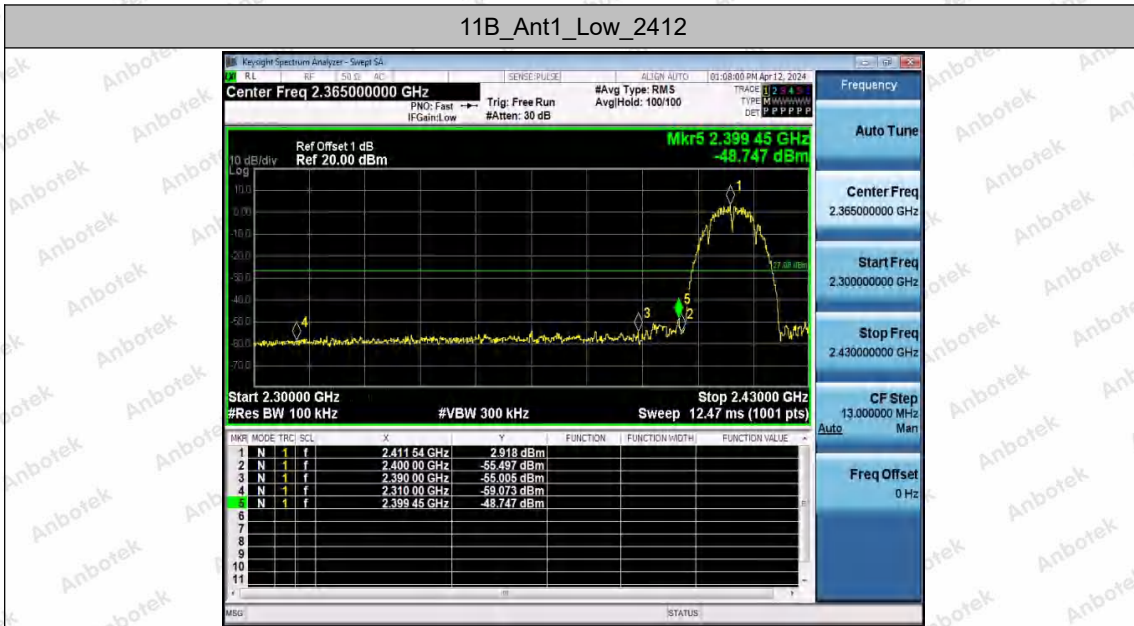
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Test Graphs



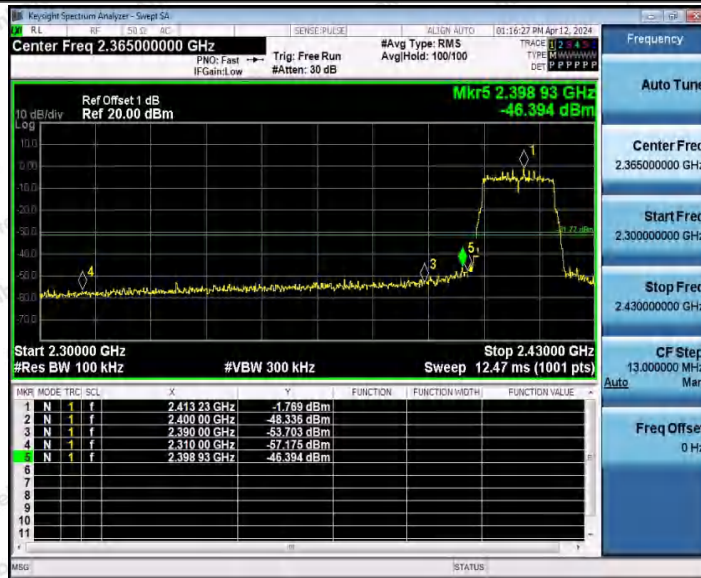
11G_Ant1_Low_2412

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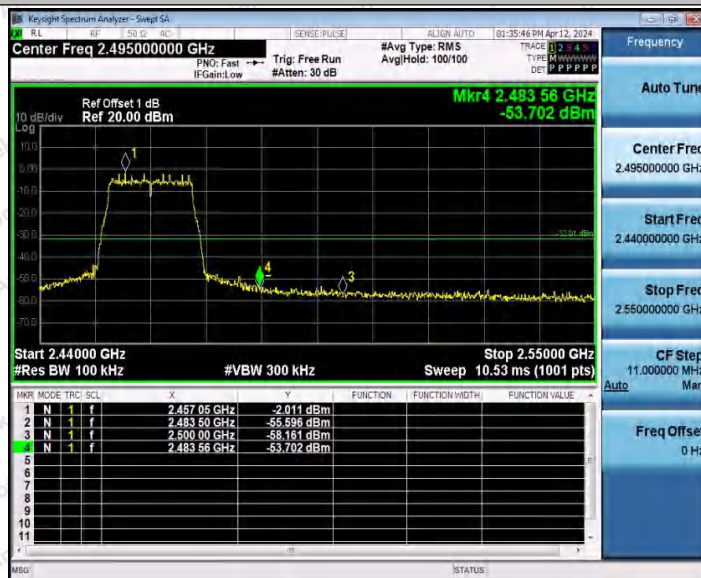
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

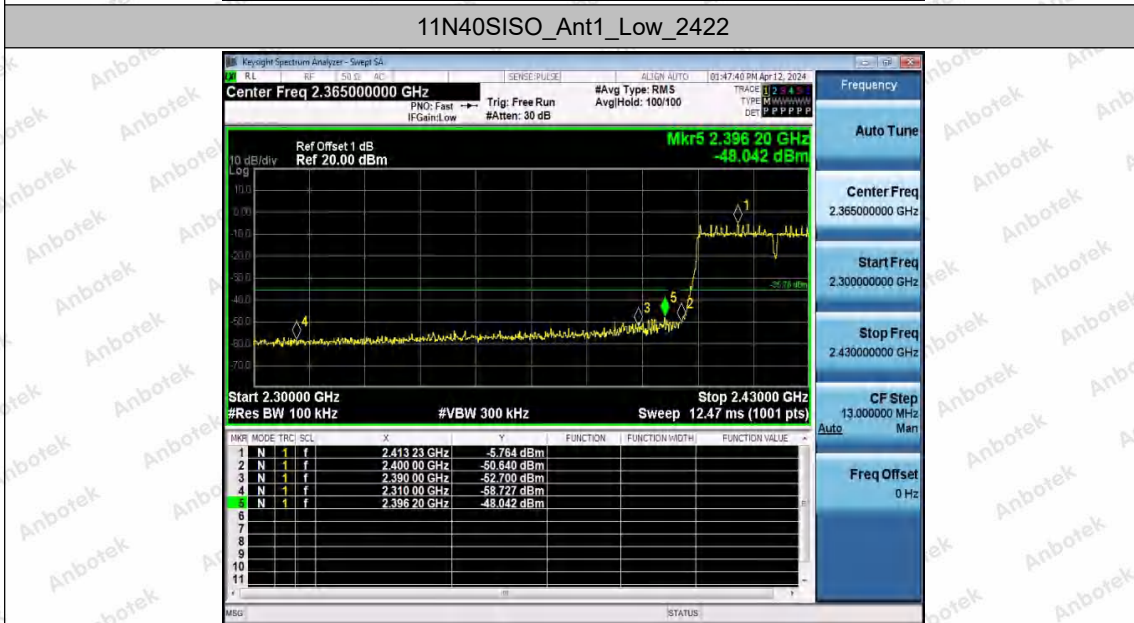


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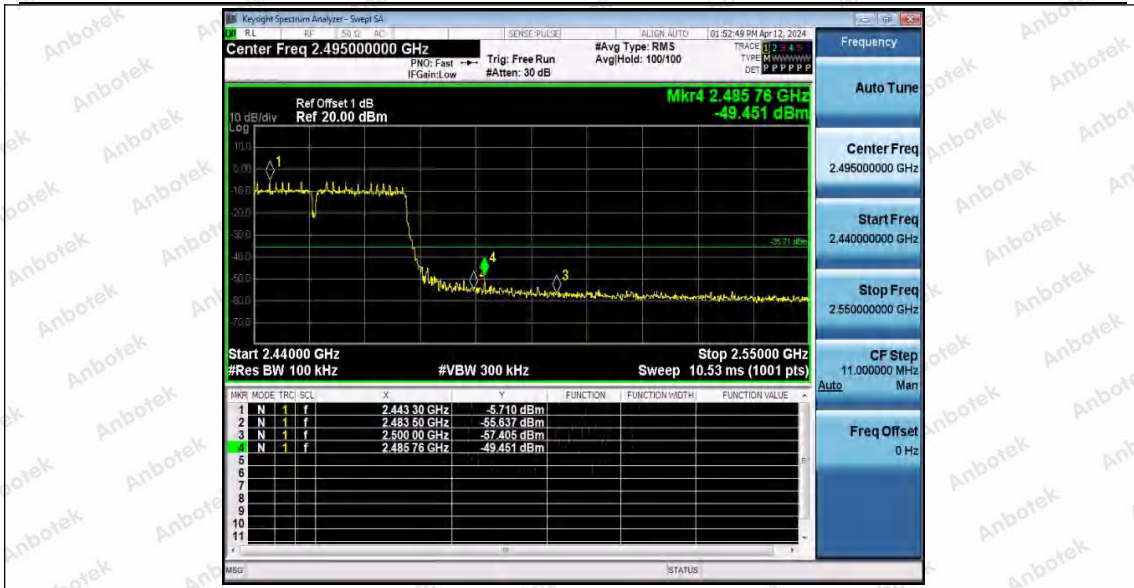


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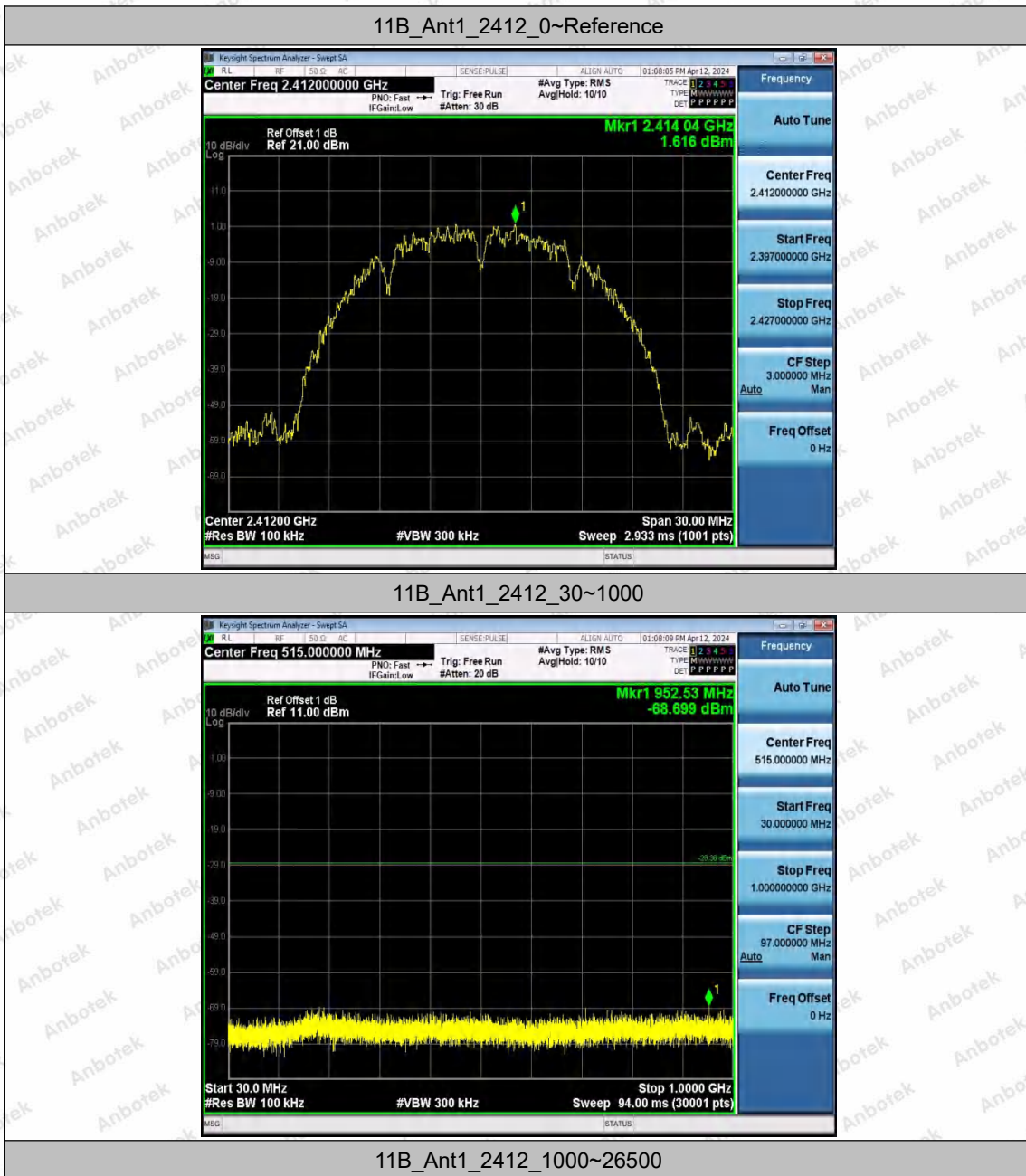
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.62	1.62	---	PASS
			30~1000	1.62	-68.7	≤-28.38	PASS
			1000~26500	1.62	-53.29	≤-28.38	PASS
		2437	Reference	1.99	1.99	---	PASS
			30~1000	1.99	-68.33	≤-28.01	PASS
			1000~26500	1.99	-53.66	≤-28.01	PASS
		2462	Reference	1.83	1.83	---	PASS
			30~1000	1.83	-68.65	≤-28.17	PASS
			1000~26500	1.83	-54	≤-28.17	PASS
11G	Ant1	2412	Reference	-2.84	-2.84	---	PASS
			30~1000	-2.84	-68.11	≤-32.84	PASS
			1000~26500	-2.84	-53.88	≤-32.84	PASS
		2437	Reference	-4.41	-4.41	---	PASS
			30~1000	-4.41	-68.63	≤-34.41	PASS
			1000~26500	-4.41	-54.17	≤-34.41	PASS
		2462	Reference	-5.25	-5.25	---	PASS
			30~1000	-5.25	-69.37	≤-35.25	PASS
			1000~26500	-5.25	-53.6	≤-35.25	PASS
11N20SISO	Ant1	2412	Reference	-4.73	-4.73	---	PASS
			30~1000	-4.73	-69.18	≤-34.73	PASS
			1000~26500	-4.73	-53.62	≤-34.73	PASS
		2437	Reference	-3.95	-3.95	---	PASS
			30~1000	-3.95	-68.55	≤-33.95	PASS
			1000~26500	-3.95	-53.69	≤-33.95	PASS
		2462	Reference	-4.24	-4.24	---	PASS
			30~1000	-4.24	-68.3	≤-34.24	PASS
			1000~26500	-4.24	-53.31	≤-34.24	PASS
11N40SISO	Ant1	2422	Reference	-6.23	-6.23	---	PASS
			30~1000	-6.23	-68.98	≤-36.23	PASS
			1000~26500	-6.23	-53.91	≤-36.23	PASS
		2437	Reference	-7.12	-7.12	---	PASS
			30~1000	-7.12	-68.96	≤-37.12	PASS
			1000~26500	-7.12	-53.35	≤-37.12	PASS
		2452	Reference	-5.92	-5.92	---	PASS
			30~1000	-5.92	-69.01	≤-35.92	PASS
			1000~26500	-5.92	-53.83	≤-35.92	PASS



Test Graphs

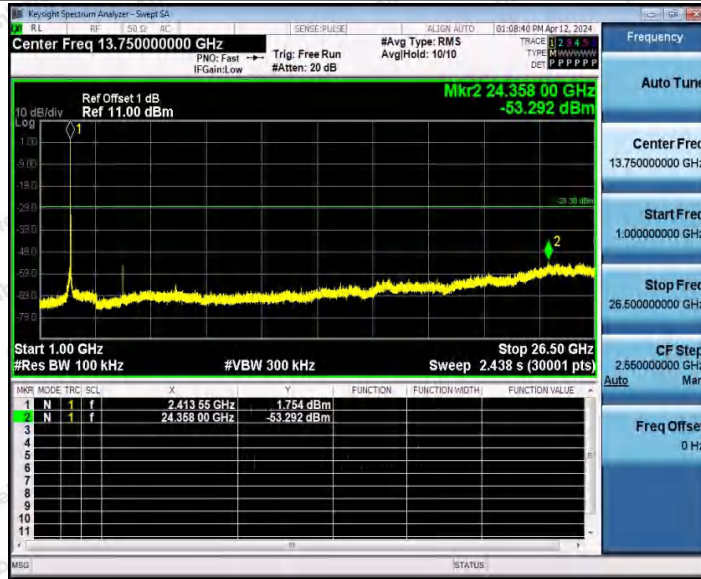


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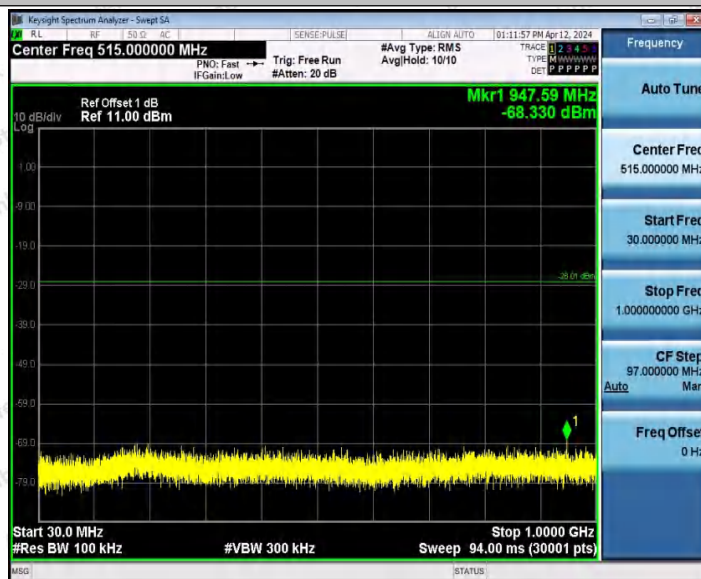




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

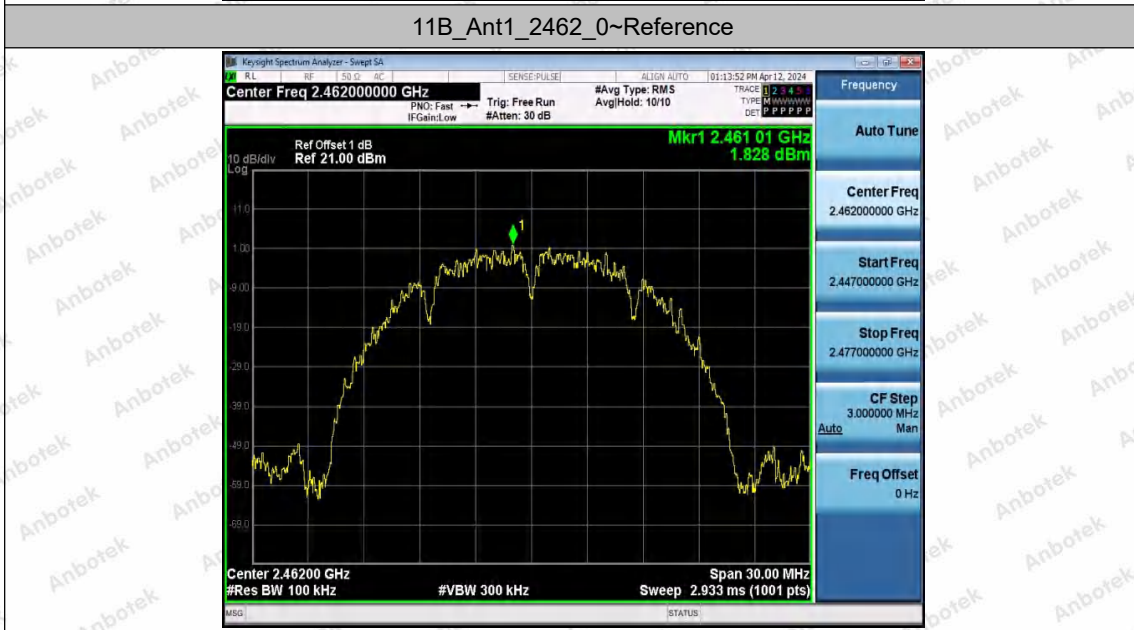
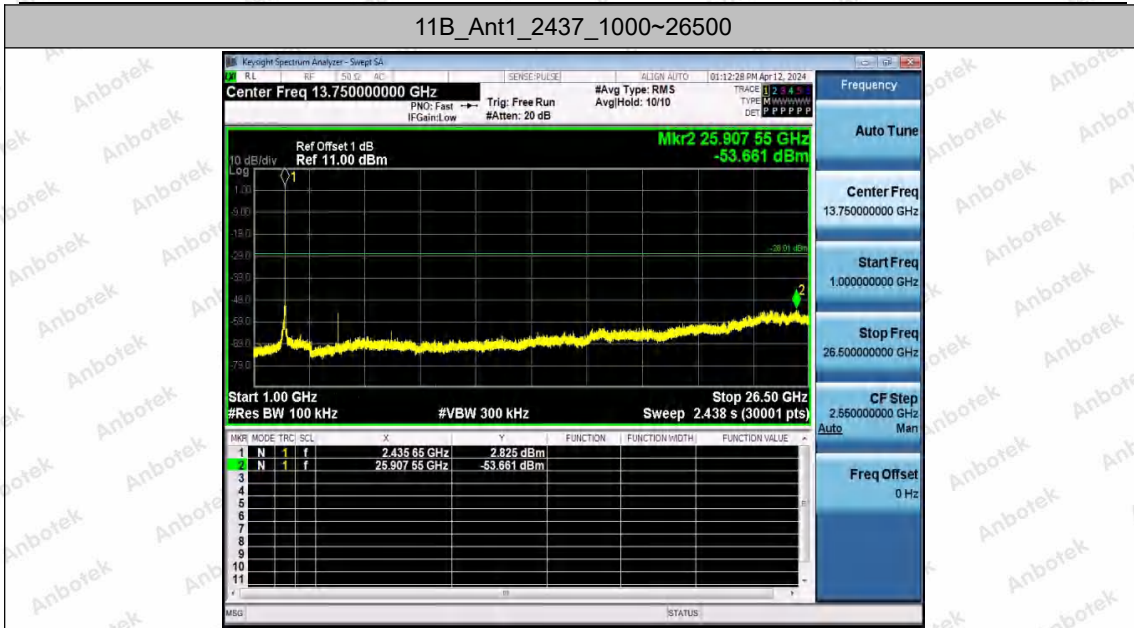


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11B_Ant1_2462_30~1000

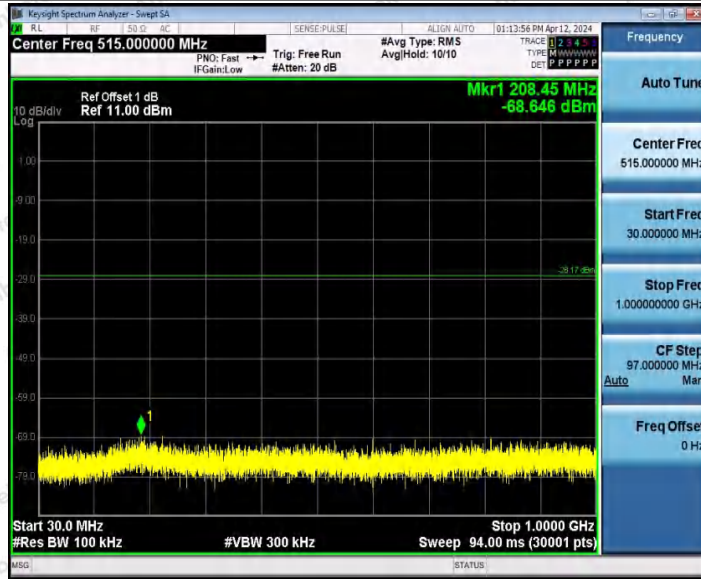
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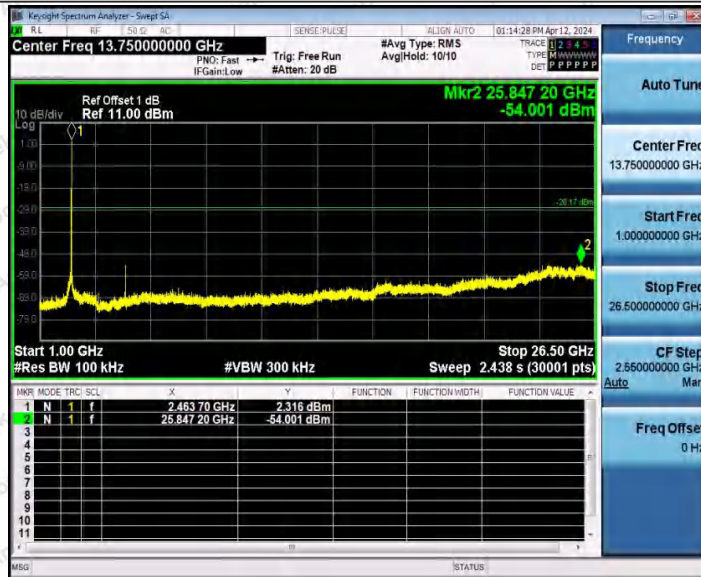


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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



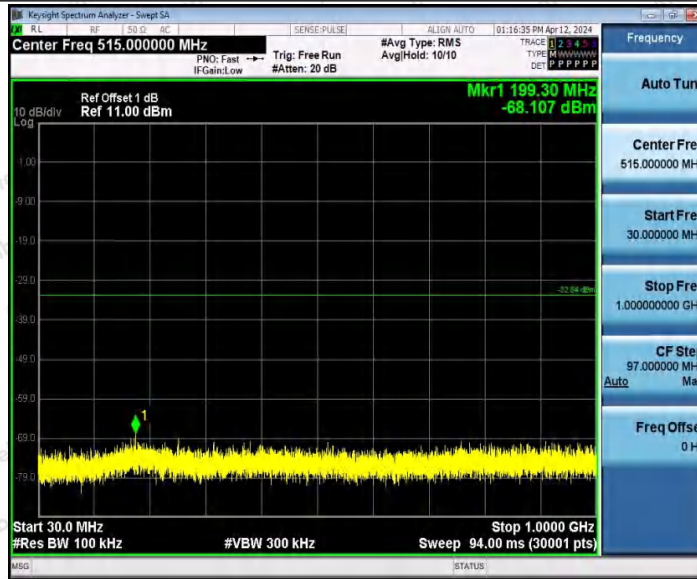
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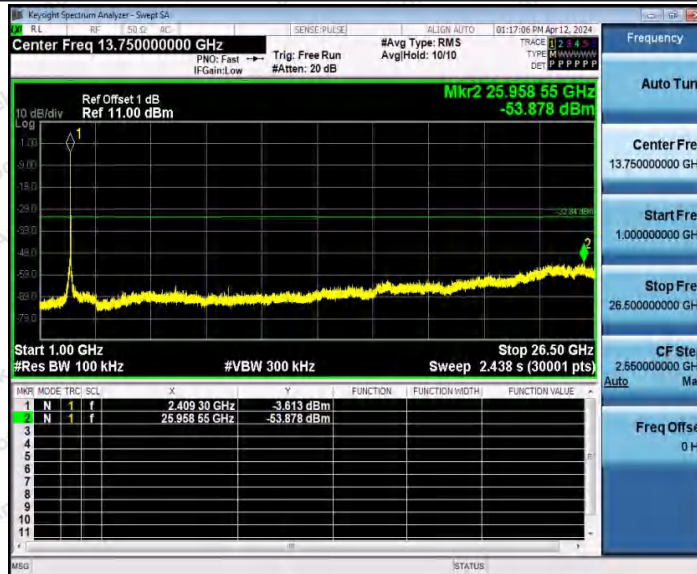
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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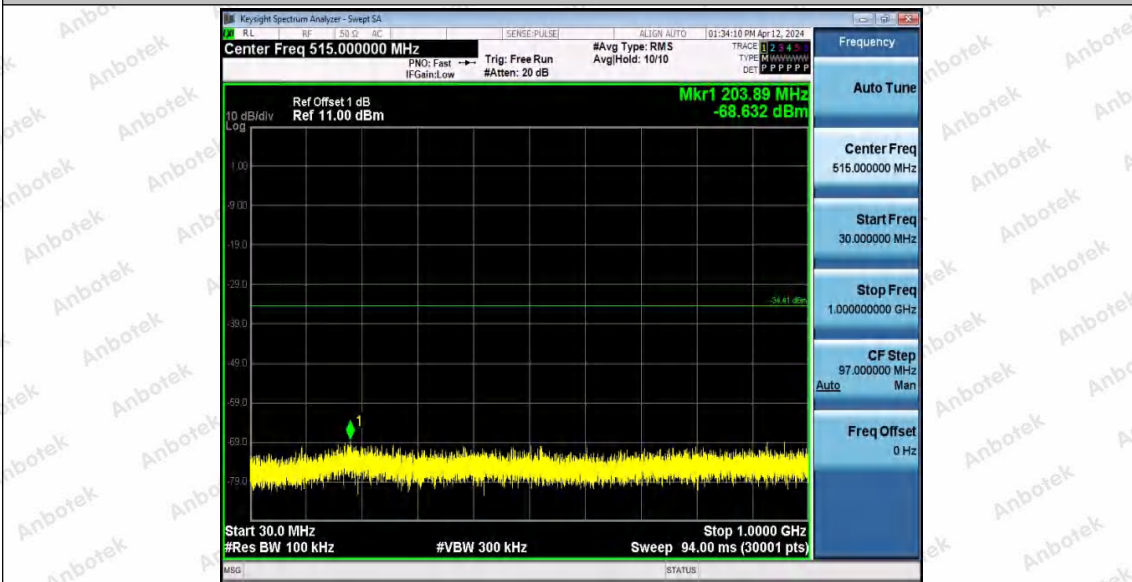
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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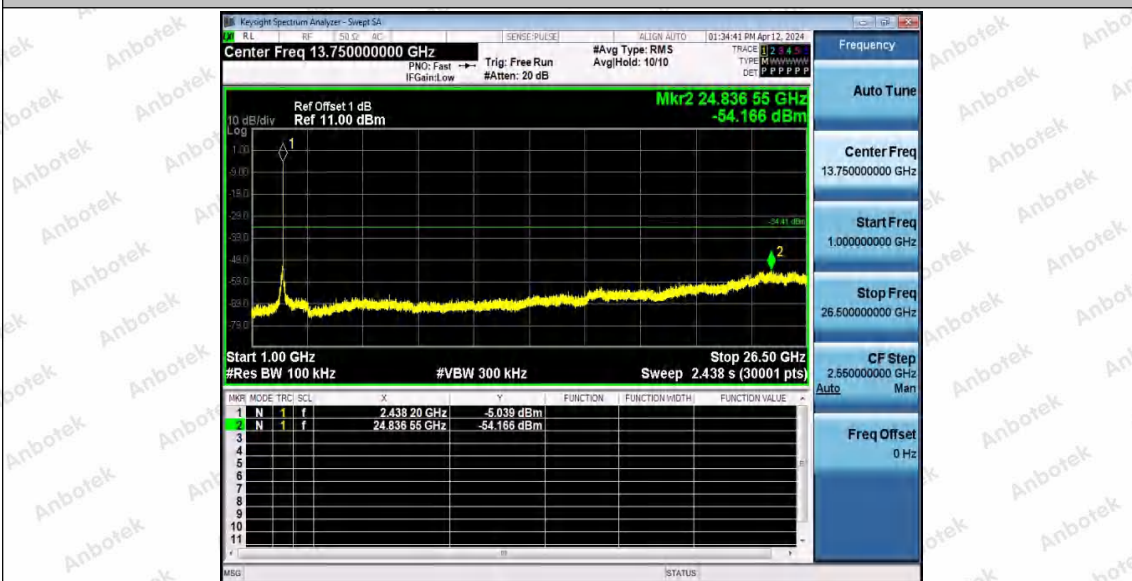




11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500

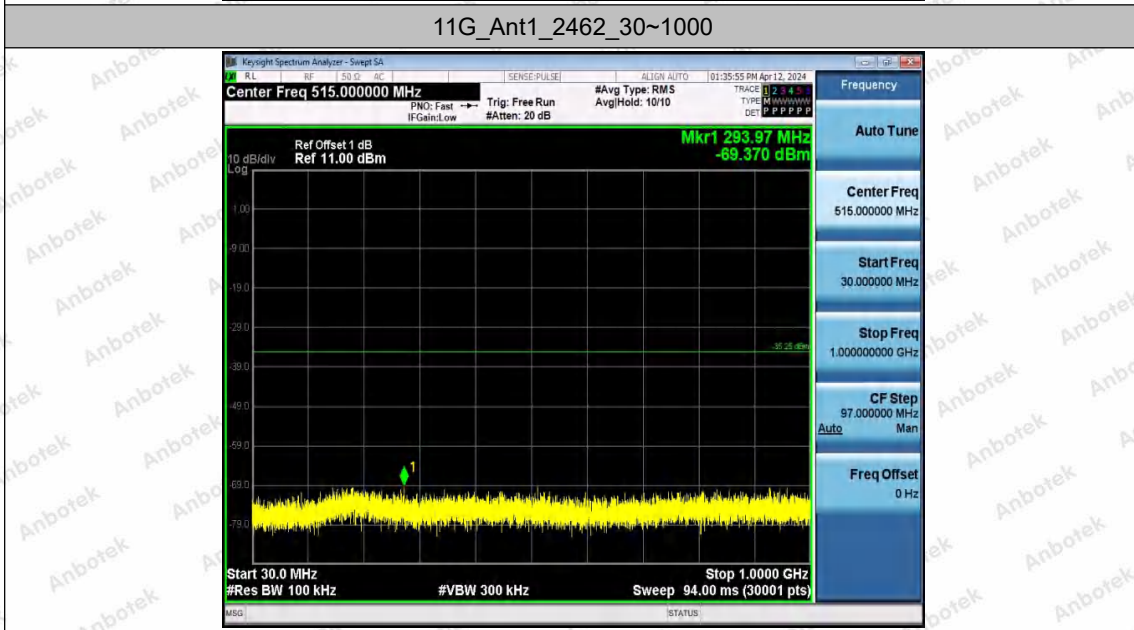
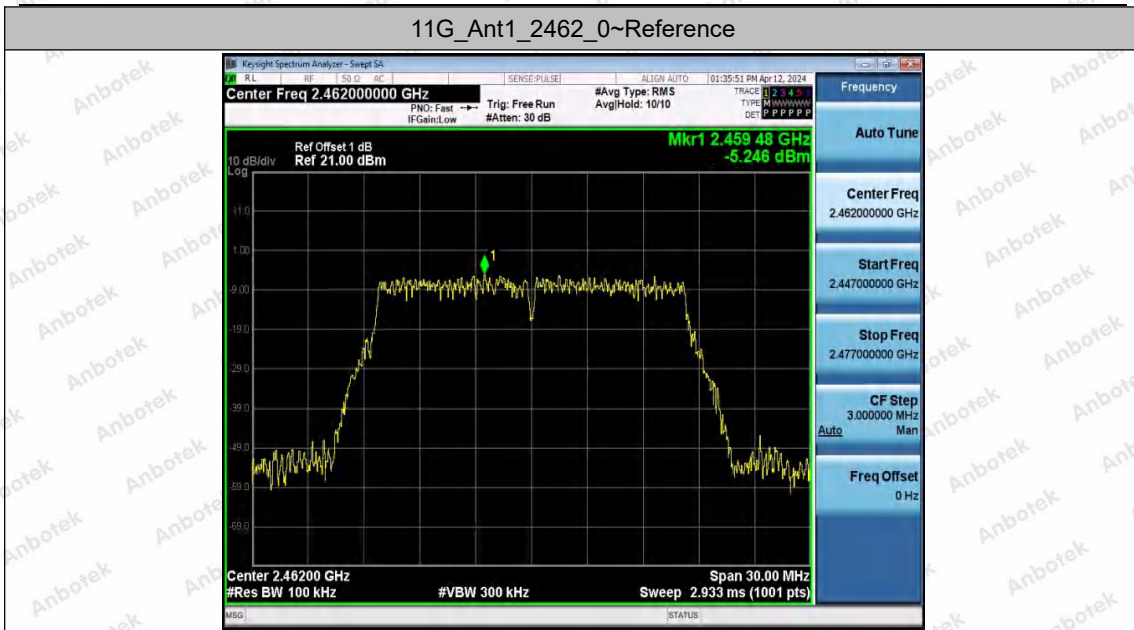


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11G_Ant1_2462_1000~26500

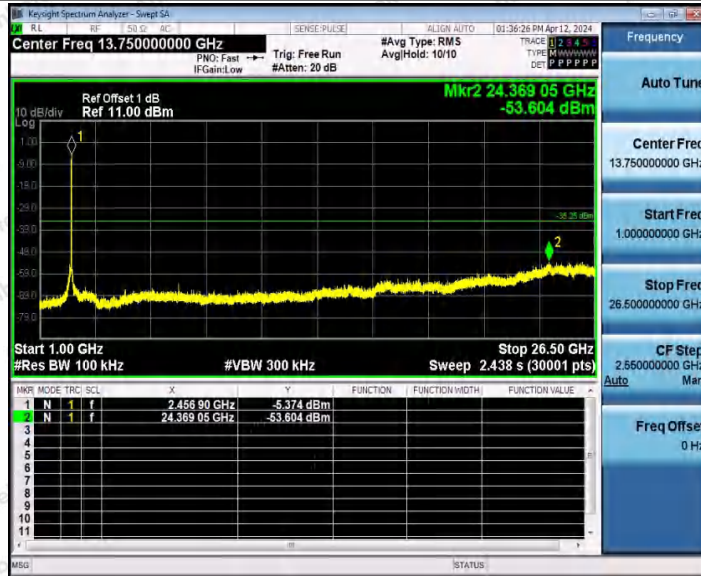
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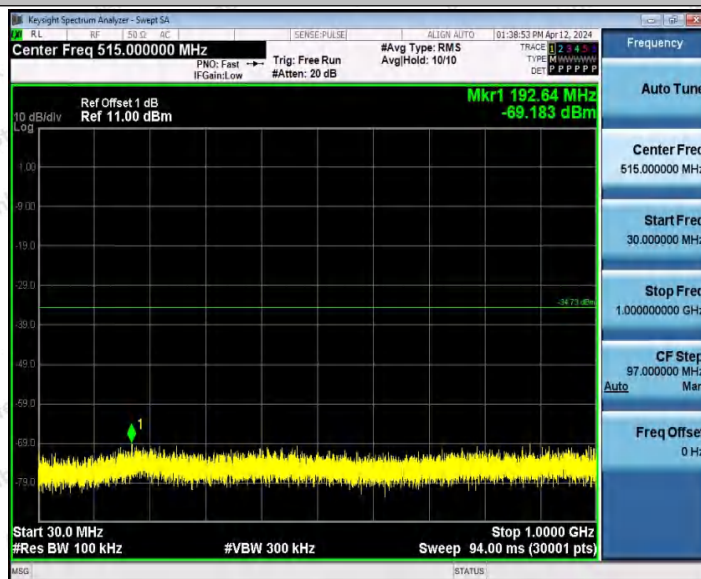




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11N20SISO_Ant1_2412_30~1000



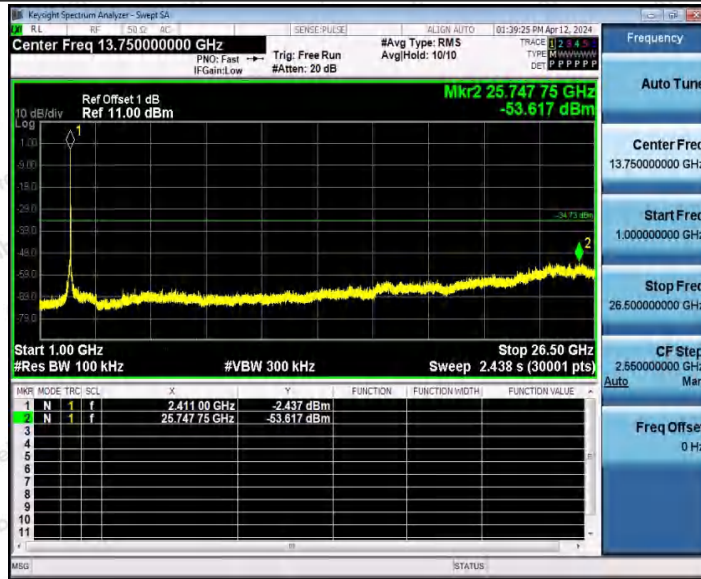
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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



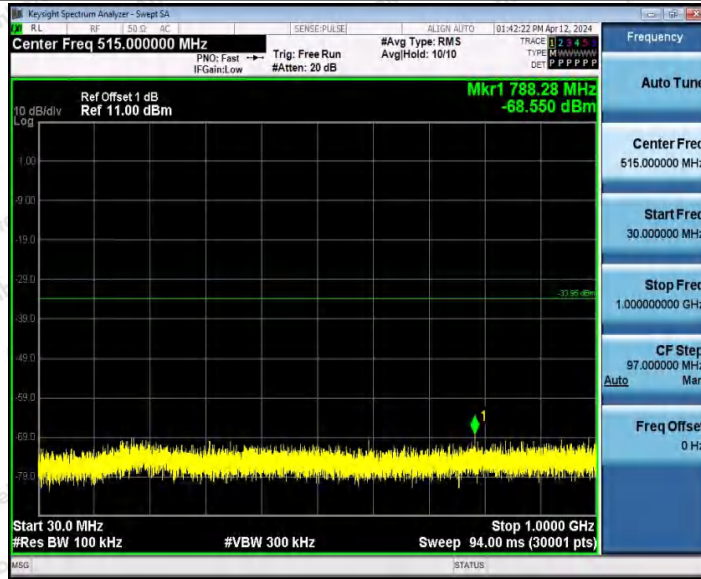
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Shenzhen Anbotek Compliance Laboratory Limited

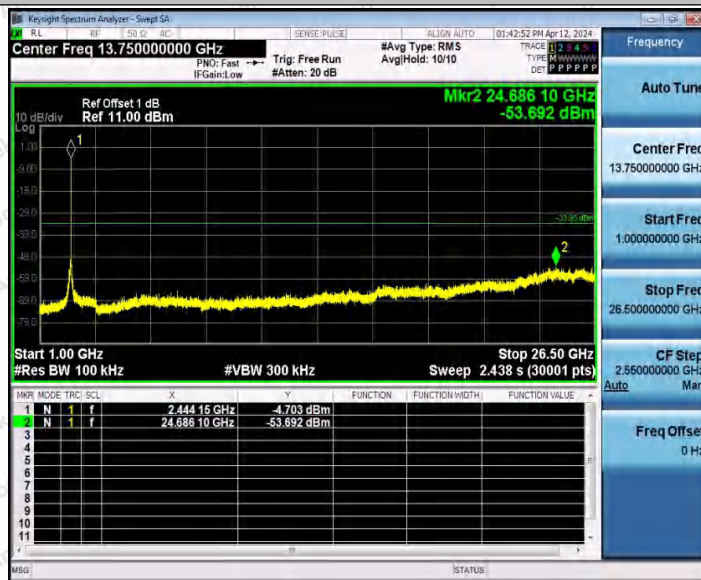
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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



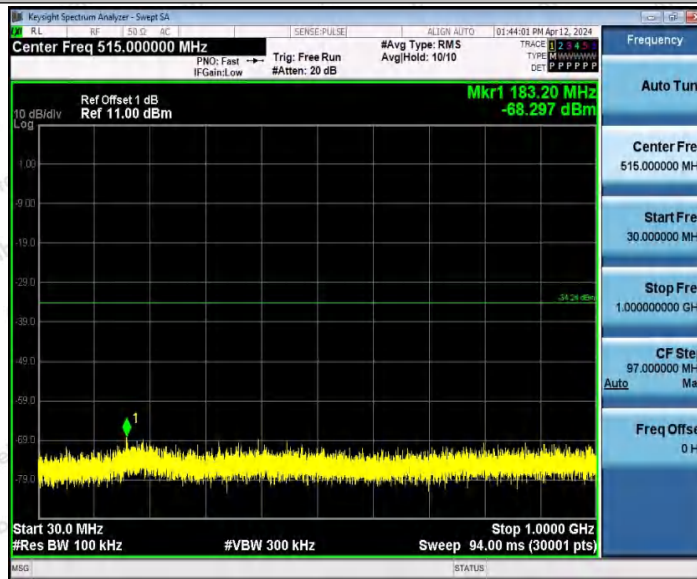
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

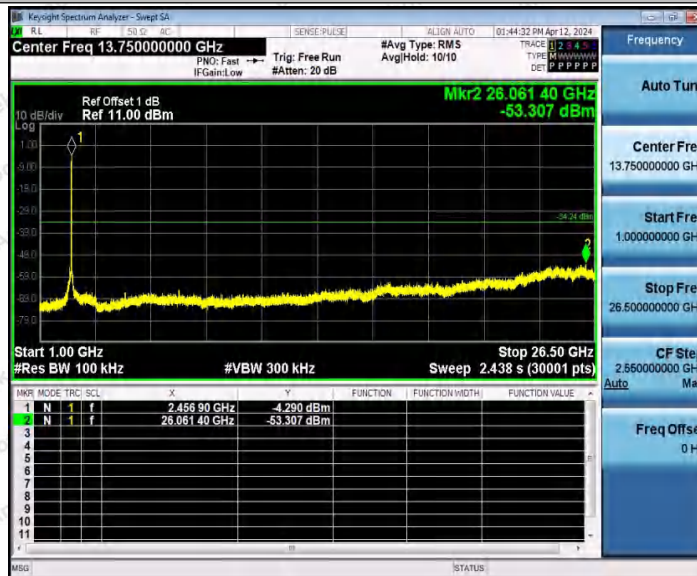
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11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_0~Reference

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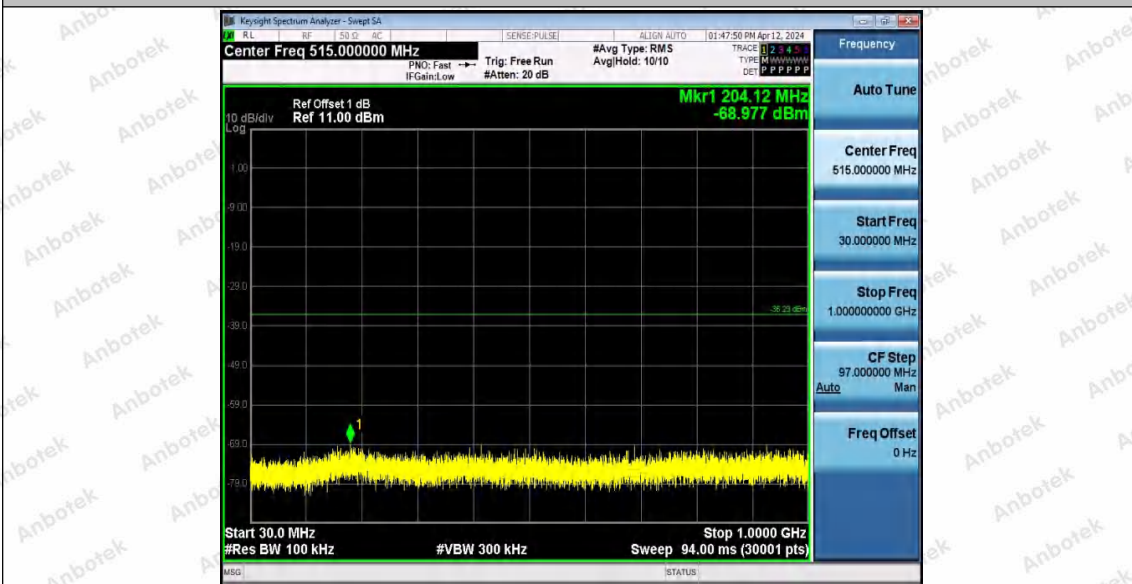
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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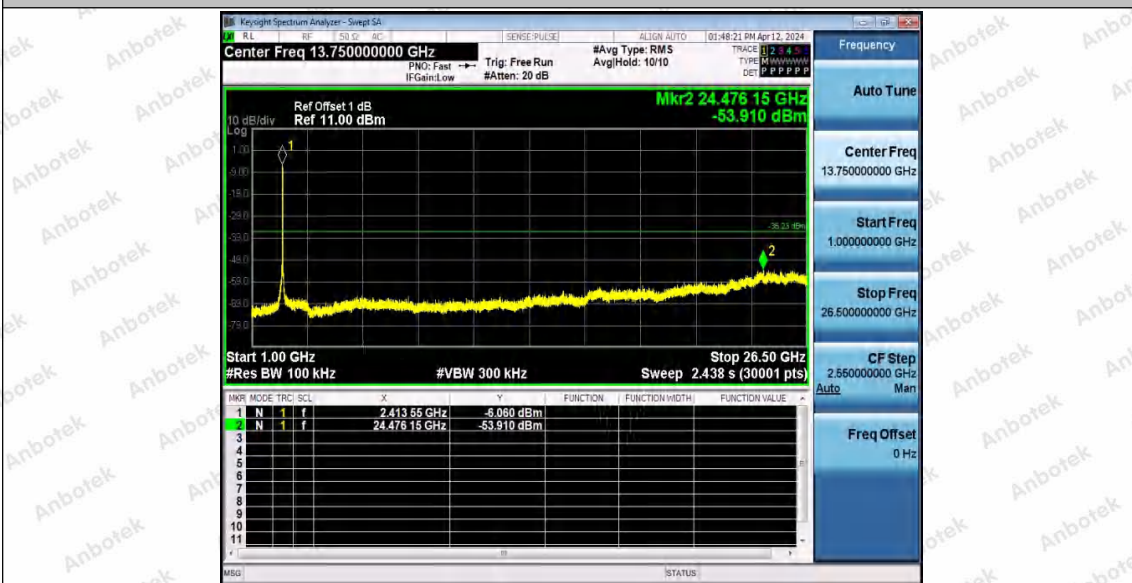




11N40SISO_Ant1_2422_30~1000



11N40SISO_Ant1_2422_1000~26500



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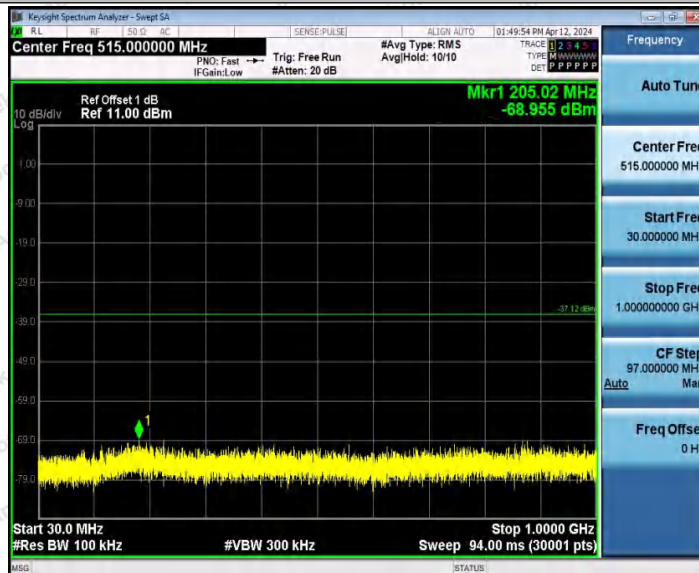
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11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



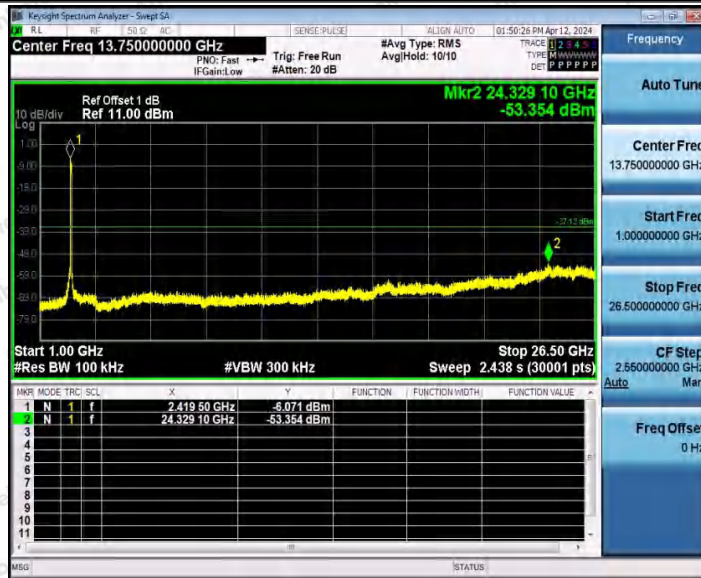
11N40SISO_Ant1_2437_1000~26500

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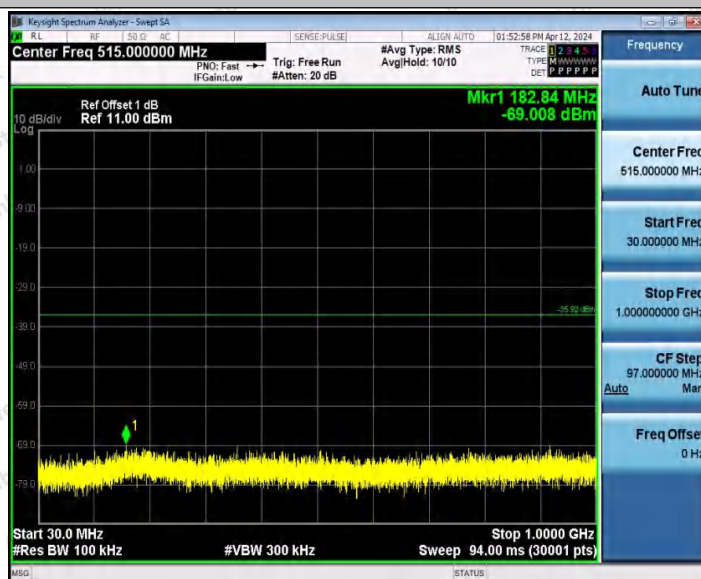




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11N40SISO_Ant1_2452_30~1000

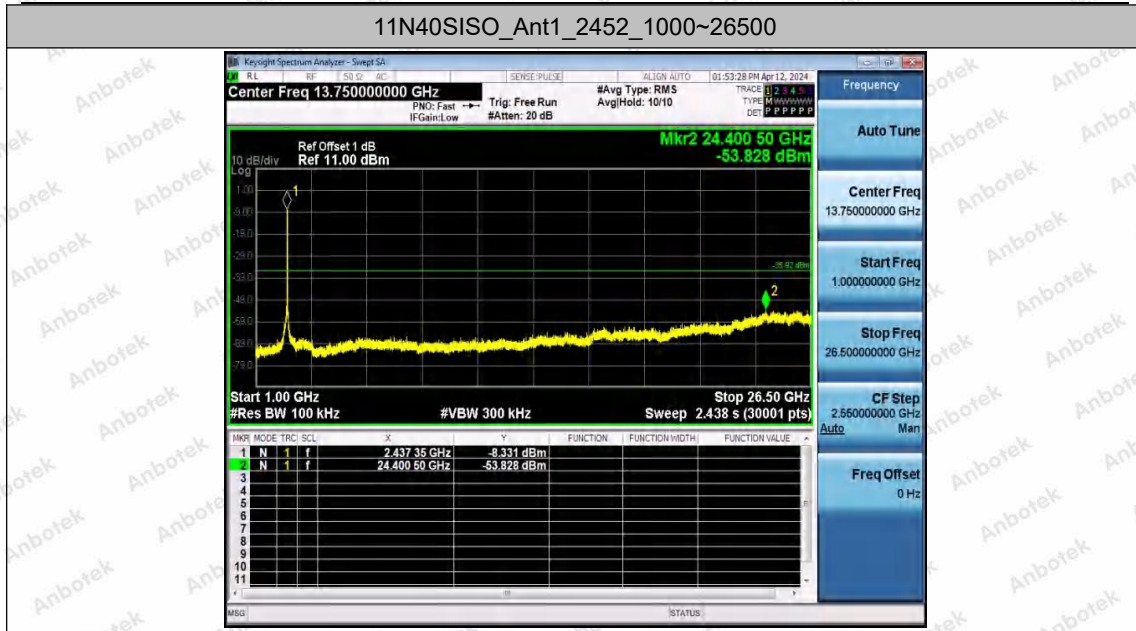


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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.39	8.42	99.64	0.02
		2437	8.38	8.42	99.52	0.02
		2462	8.39	8.42	99.64	0.02
11G	Ant1	2412	1.39	1.43	97.20	0.12
		2437	1.39	1.43	97.20	0.12
		2462	1.39	1.42	97.89	0.09
11N20SISO	Ant1	2412	1.29	1.33	96.99	0.13
		2437	1.30	1.33	97.74	0.10
		2462	1.30	1.33	97.74	0.10
11N40SISO	Ant1	2422	0.64	0.68	94.12	0.26
		2437	0.65	0.69	94.20	0.26
		2452	0.65	0.69	94.20	0.26

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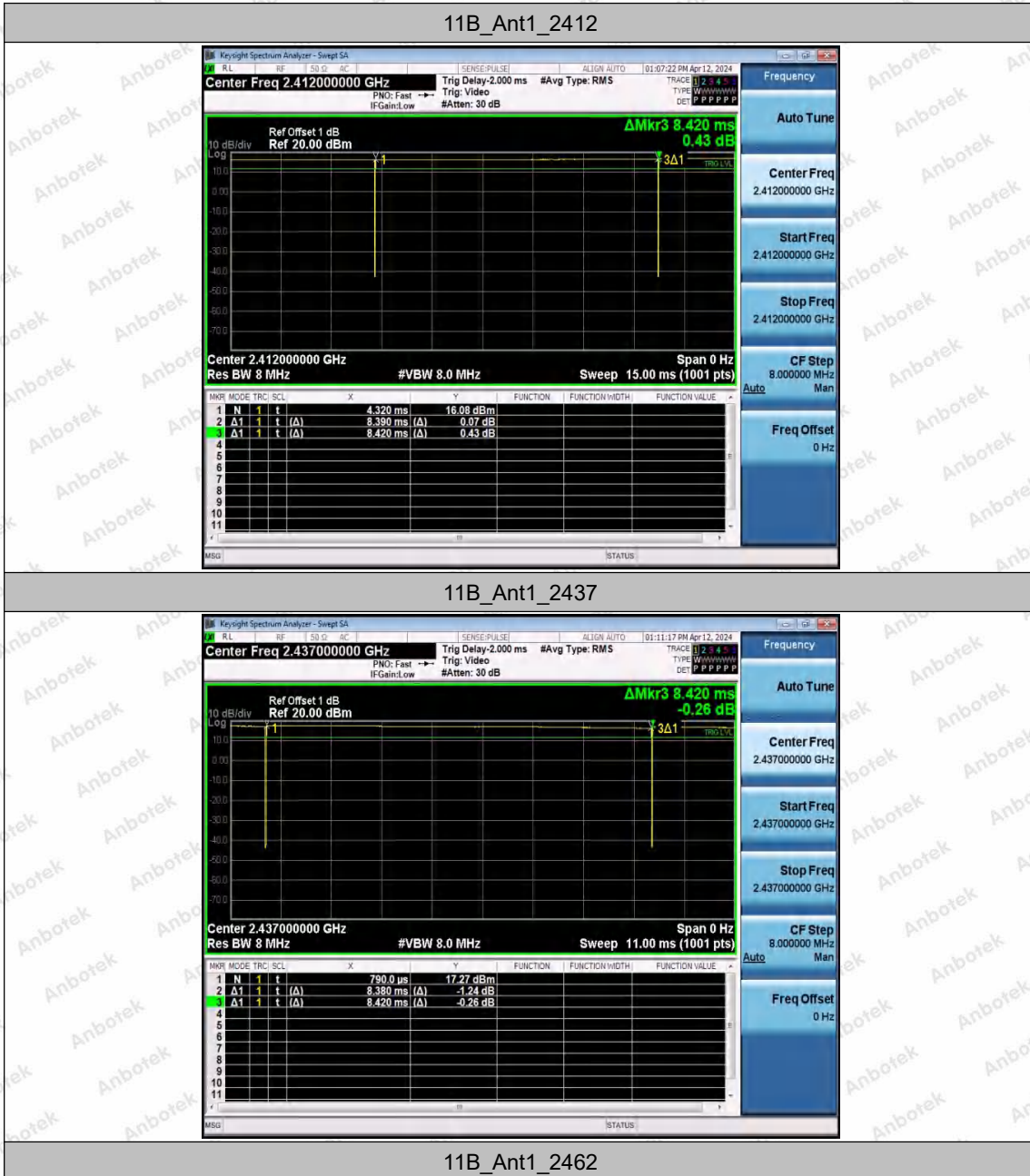
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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Test Graphs

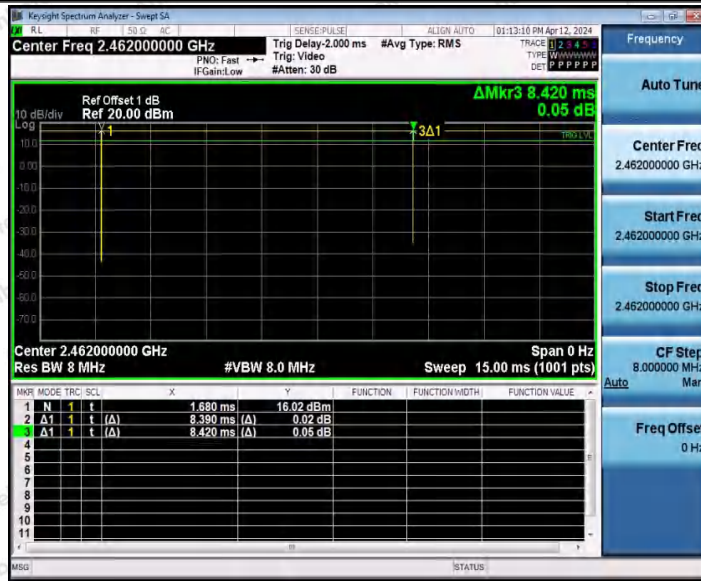


Shenzhen Anbotek Compliance Laboratory Limited

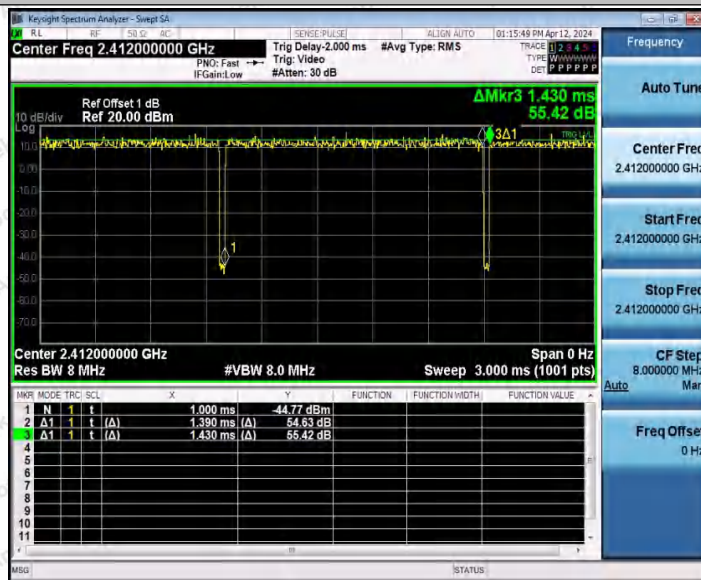
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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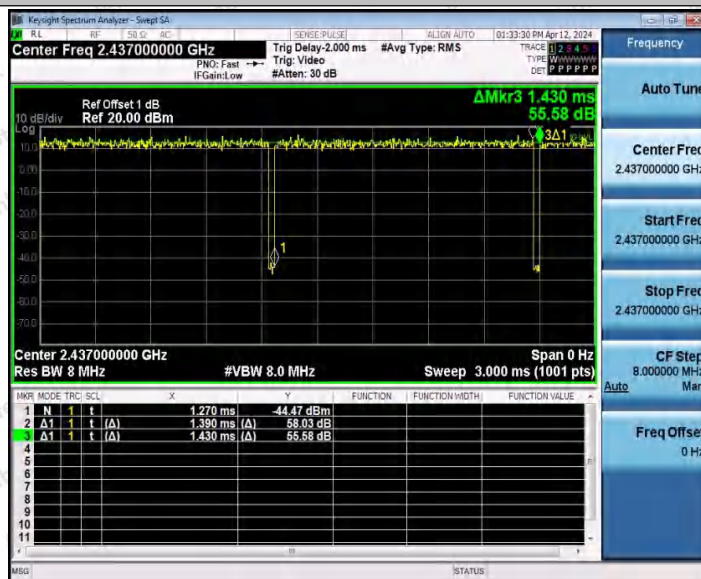




11G_Ant1_2412



11G_Ant1_2437

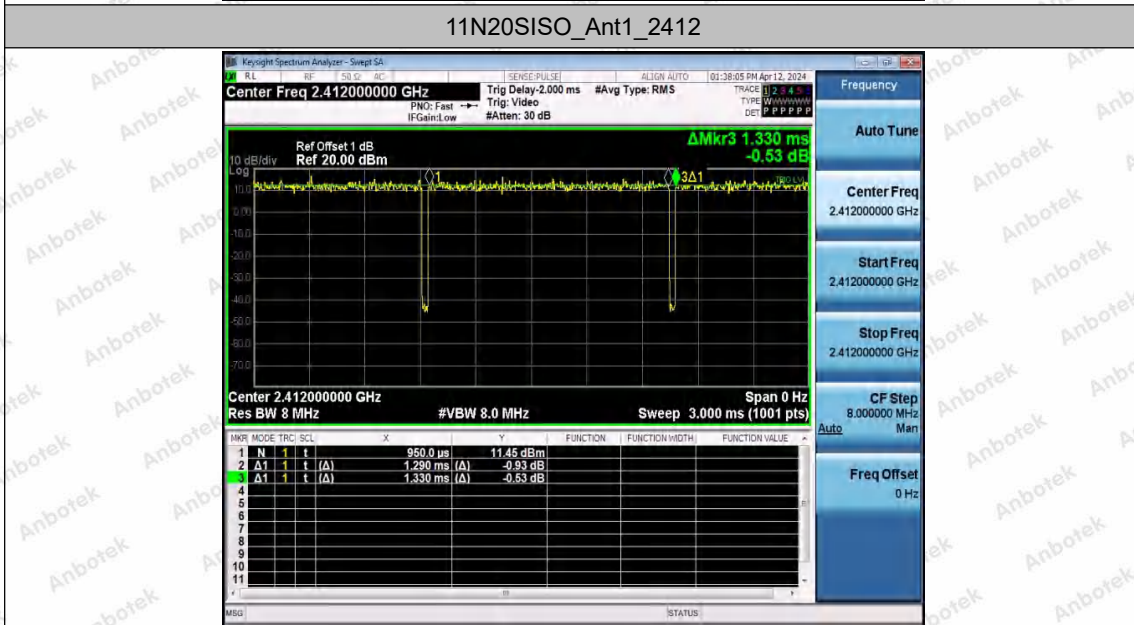
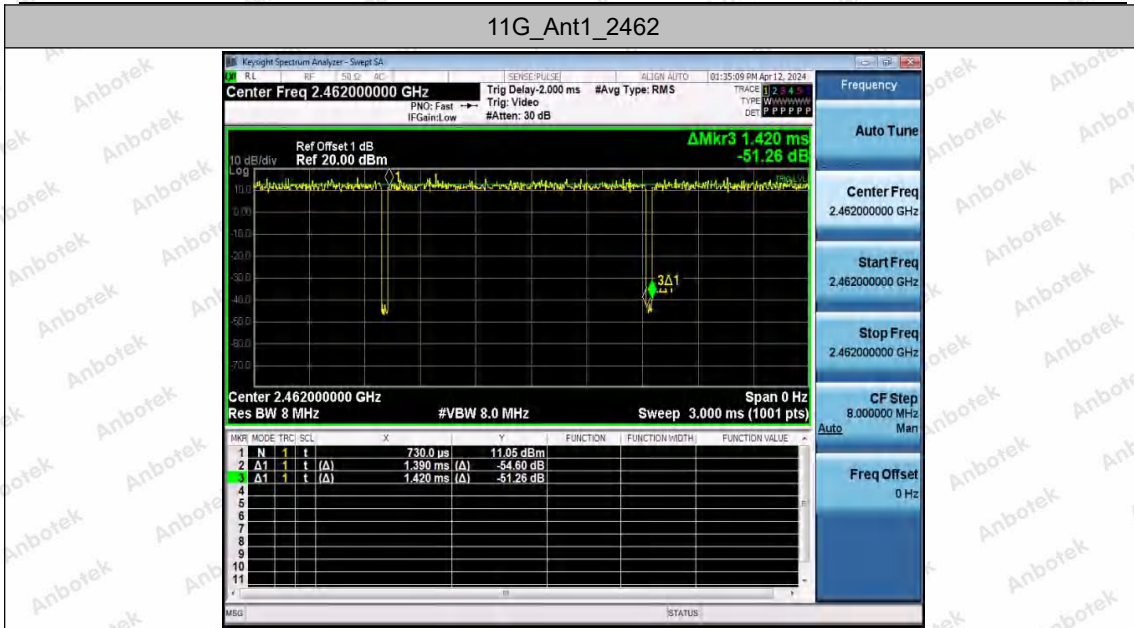


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11N20SISO_Ant1_2437

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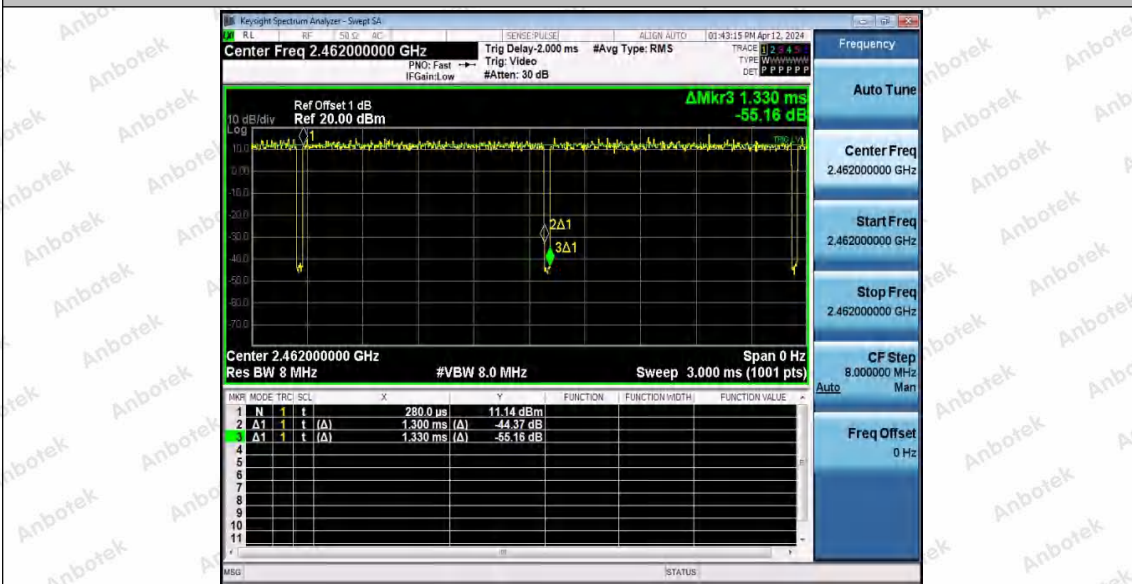
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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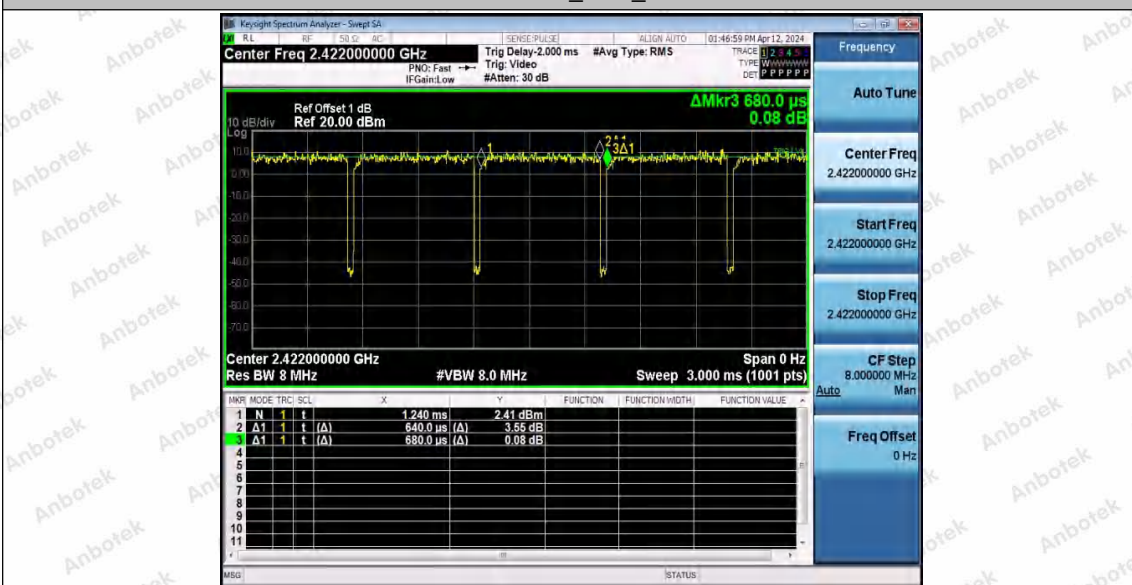




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



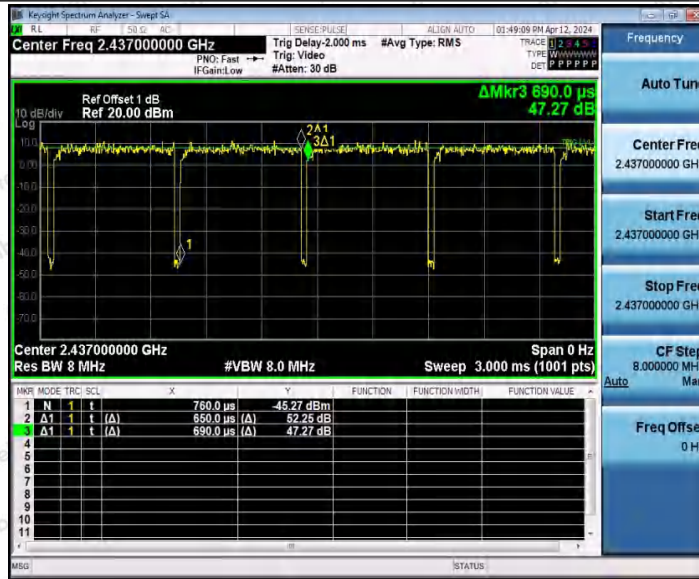
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

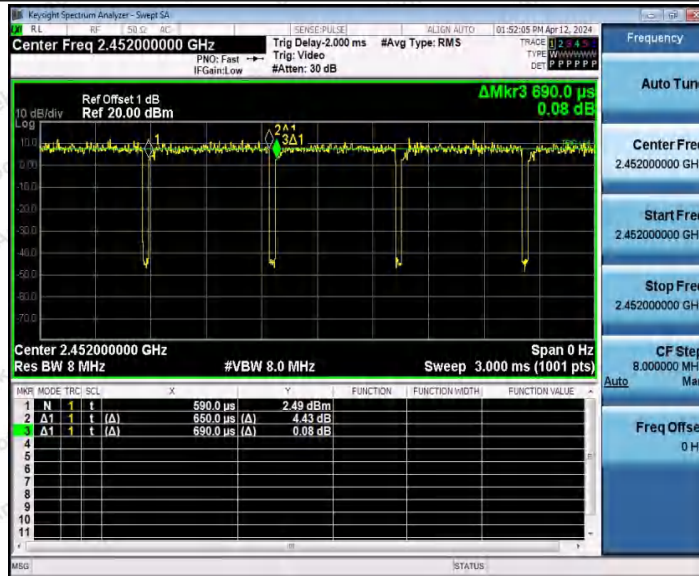
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



---END---

