

Appendix Test Data

Report No.:	18220WC40035801	Test Sample No.:	1-2-2
Start Test Date:	2024.3.15	Finish Test Date:	2024.3.15
Test Engineer:	<i>Joker Wong</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24°C	Relative Humidity:	45%
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	7.120	2408.440	2415.560	0.5	PASS
		2437	7.560	2433.480	2441.040	0.5	PASS
		2462	8.520	2457.520	2466.040	0.5	PASS
11G	Ant1	2412	14.200	2405.360	2419.560	0.5	PASS
		2437	15.080	2429.440	2444.520	0.5	PASS
		2462	15.080	2454.520	2469.600	0.5	PASS
11N20SISO	Ant1	2412	15.080	2404.440	2419.520	0.5	PASS
		2437	15.000	2429.520	2444.520	0.5	PASS
		2462	14.080	2455.480	2469.560	0.5	PASS

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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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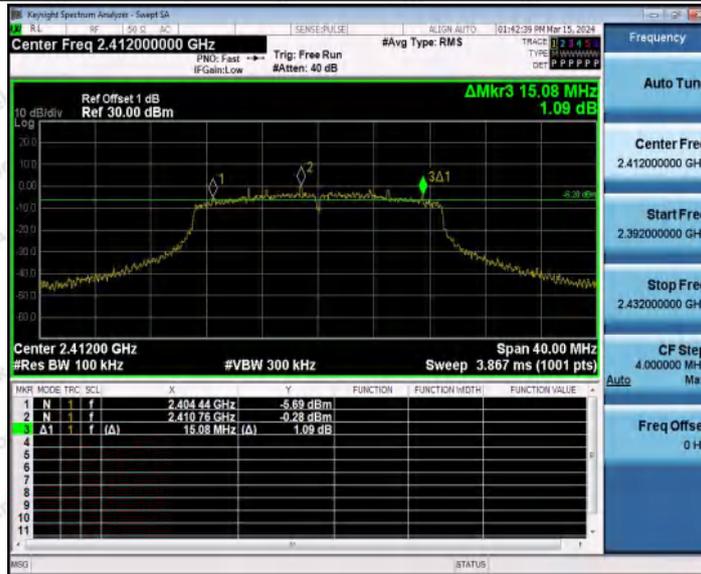
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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11N20SISO_Ant1_2462



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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	13.998	2405.0503	2419.0483	---	---
		2437	14.011	2430.0304	2444.0414	---	---
		2462	14.026	2455.0072	2469.0332	---	---
11G	Ant1	2412	16.601	2403.7744	2420.3754	---	---
		2437	16.664	2428.6933	2445.3573	---	---
		2462	16.619	2453.7232	2470.3422	---	---
11N20SISO	Ant1	2412	17.663	2403.2283	2420.8913	---	---
		2437	17.688	2428.1879	2445.8759	---	---
		2462	17.643	2453.2119	2470.8549	---	---

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Test Graphs





11G_Ant1_2412



11G_Ant1_2437



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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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Appendix C: Maximum conducted output power

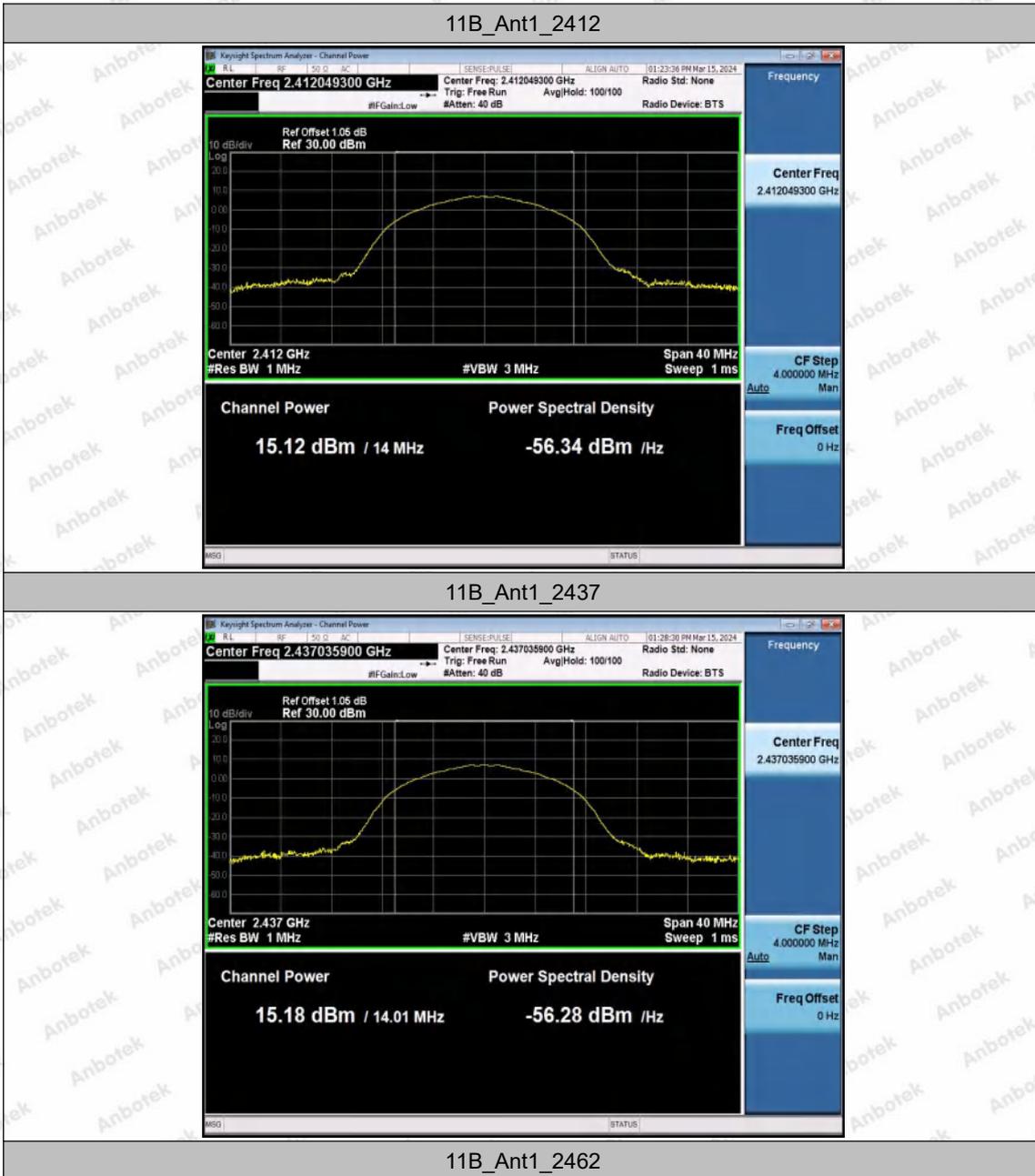
Test Result Average

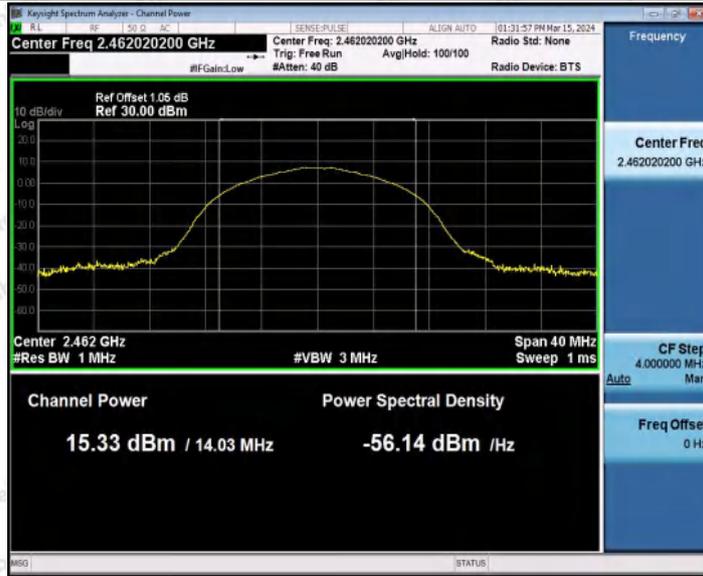
Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	15.07	98.94	0.05	15.12	≤30.0 0	PASS
		2437	15.13	98.82	0.05	15.18	≤30.0 0	PASS
		2462	15.28	98.94	0.05	15.33	≤30.0 0	PASS
11G	Ant1	2412	15.12	93.29	0.30	15.42	≤30.0 0	PASS
		2437	15.27	92.67	0.33	15.60	≤30.0 0	PASS
		2462	15.43	92.67	0.33	15.76	≤30.0 0	PASS
11N20SI SO	Ant1	2412	15.02	92.91	0.32	15.34	≤30.0 0	PASS
		2437	15.11	92.91	0.32	15.43	≤30.0 0	PASS
		2462	15.28	92.86	0.32	15.60	≤30.0 0	PASS

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

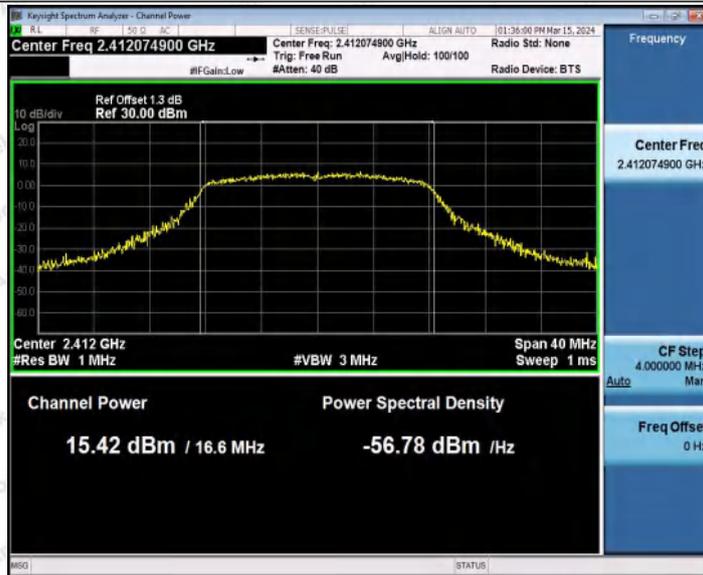


Test Graphs

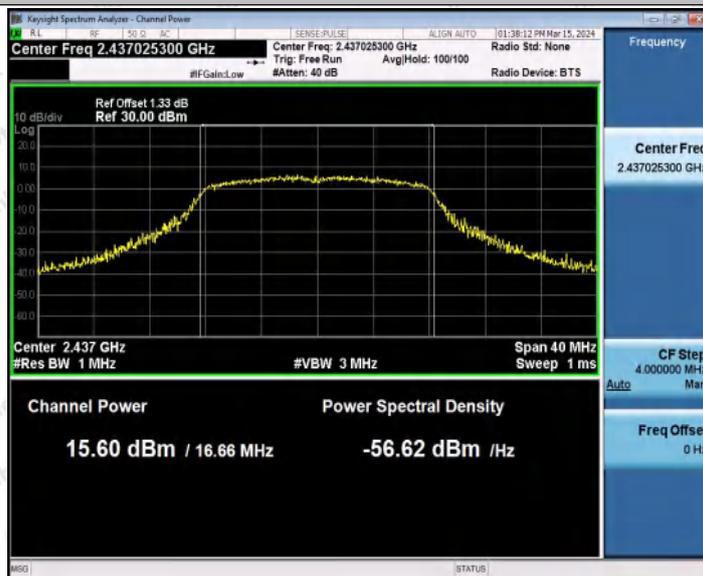




11G_Ant1_2412



11G_Ant1_2437



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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

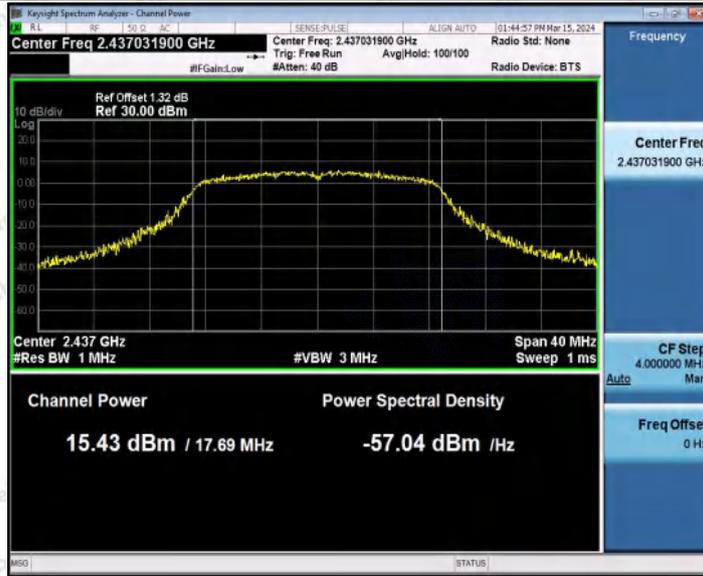
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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]
11B	Ant1	2412	-7.94	-17.94	≤8.00	PASS
		2437	-7.31	-17.31	≤8.00	PASS
		2462	-7.20	-17.20	≤8.00	PASS
11G	Ant1	2412	-13.00	-23.00	≤8.00	PASS
		2437	-12.46	-22.46	≤8.00	PASS
		2462	-12.59	-22.59	≤8.00	PASS
11N20SISO	Ant1	2412	-12.98	-22.98	≤8.00	PASS
		2437	-12.68	-22.68	≤8.00	PASS
		2462	-12.29	-22.29	≤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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11G_Ant1_2412



11G_Ant1_2437



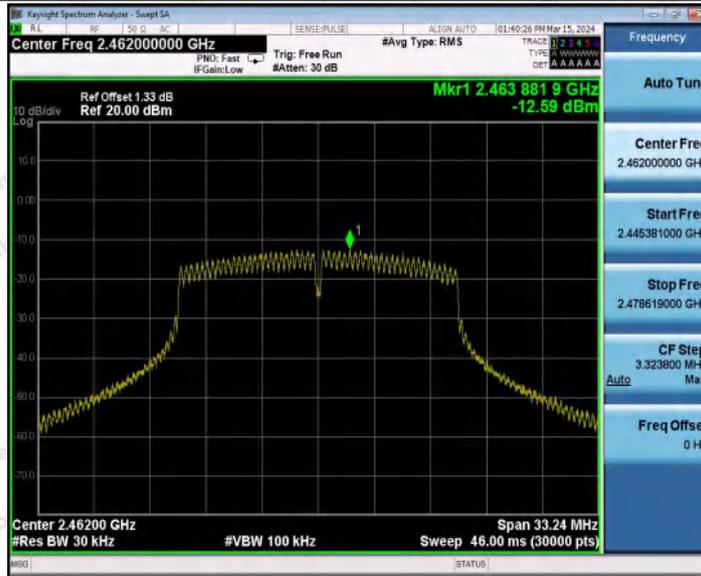
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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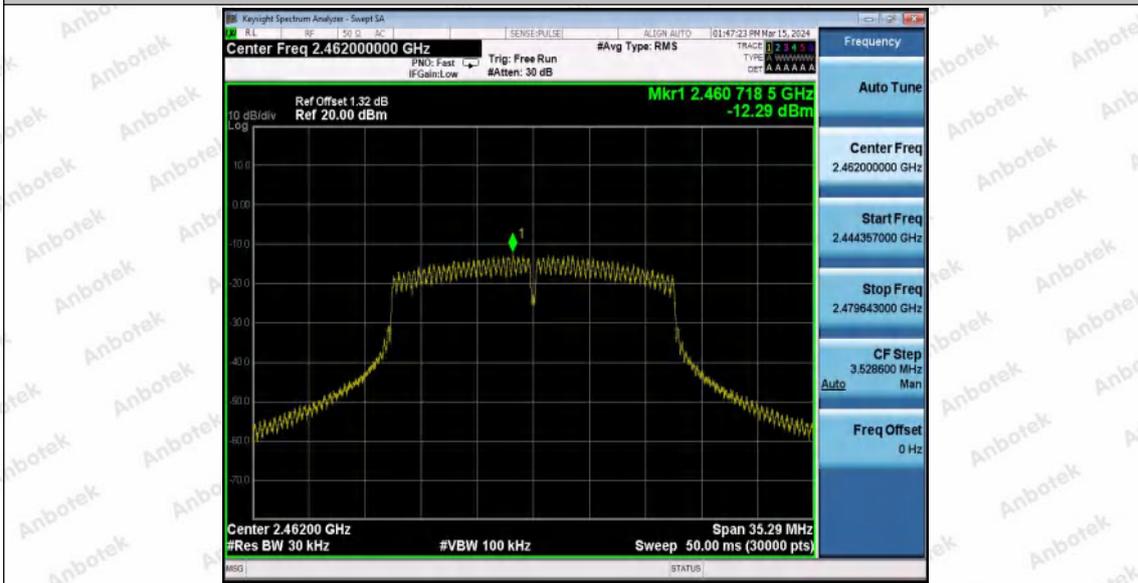
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11N20SISO_Ant1_2462



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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	5.47	-40.34	≤-24.53	PASS
		High	2462	5.74	-51.42	≤-24.26	PASS
11G	Ant1	Low	2412	0.82	-31.97	≤-29.18	PASS
		High	2462	0.23	-47.83	≤-29.77	PASS
11N20SISO	Ant1	Low	2412	0.75	-34.17	≤-29.25	PASS
		High	2462	0.86	-45.14	≤-29.14	PASS

Test Graphs



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11G_Ant1_Low_2412



11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

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11N20SISO_Ant1_High_2462



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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	5.41	5.41	---	PASS
			30~1000	5.41	-60.94	≤-24.59	PASS
			1000~26500	5.41	-53.83	≤-24.59	PASS
		2437	Reference	5.82	5.82	---	PASS
			30~1000	5.82	-46.48	≤-24.18	PASS
			1000~26500	5.82	-53.44	≤-24.18	PASS
		2462	Reference	5.78	5.78	---	PASS
			30~1000	5.78	-67.75	≤-24.22	PASS
			1000~26500	5.78	-53.62	≤-24.22	PASS
11G	Ant1	2412	Reference	0.18	0.18	---	PASS
			30~1000	0.18	-68.11	≤-29.82	PASS
			1000~26500	0.18	-53.66	≤-29.82	PASS
		2437	Reference	0.77	0.77	---	PASS
			30~1000	0.77	-68.32	≤-29.23	PASS
			1000~26500	0.77	-49.39	≤-29.23	PASS
		2462	Reference	1.05	1.05	---	PASS
			30~1000	1.05	-68.38	≤-28.95	PASS
			1000~26500	1.05	-49.49	≤-28.95	PASS
11N20SISO	Ant1	2412	Reference	0.63	0.63	---	PASS
			30~1000	0.63	-68.24	≤-29.37	PASS
			1000~26500	0.63	-53.08	≤-29.37	PASS
		2437	Reference	0.51	0.51	---	PASS
			30~1000	0.51	-68.56	≤-29.49	PASS
			1000~26500	0.51	-51.86	≤-29.49	PASS
		2462	Reference	1.15	1.15	---	PASS
			30~1000	1.15	-54.99	≤-28.85	PASS
			1000~26500	1.15	-46.29	≤-28.85	PASS

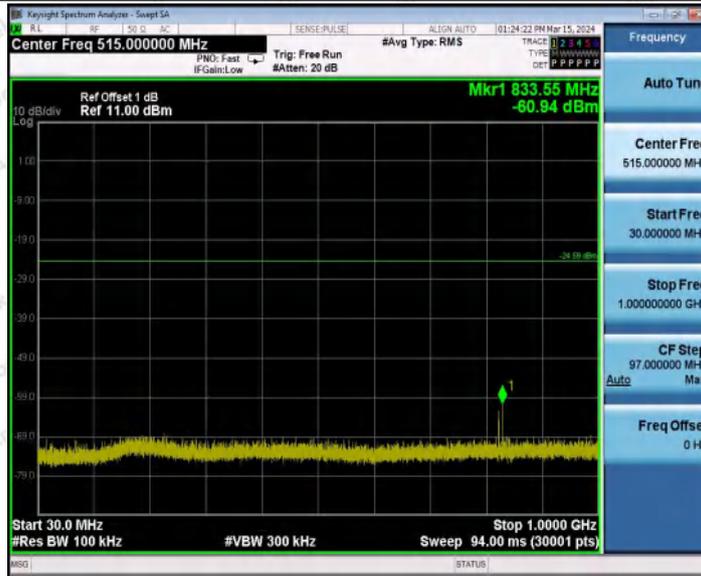


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



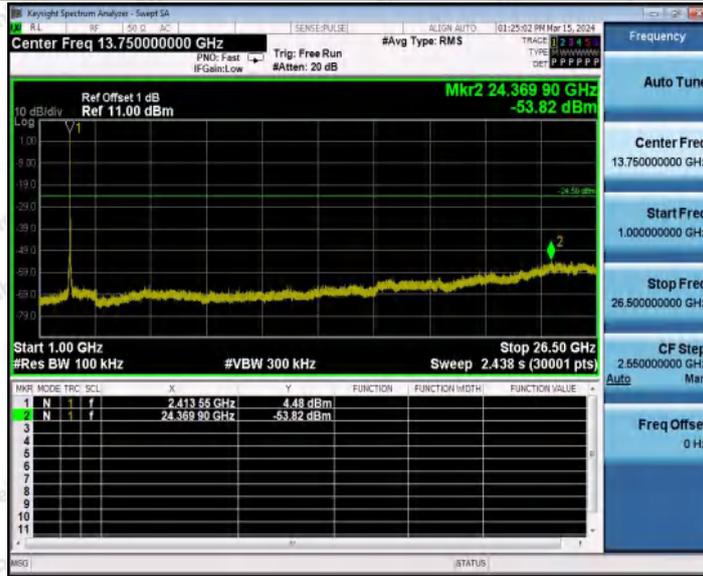
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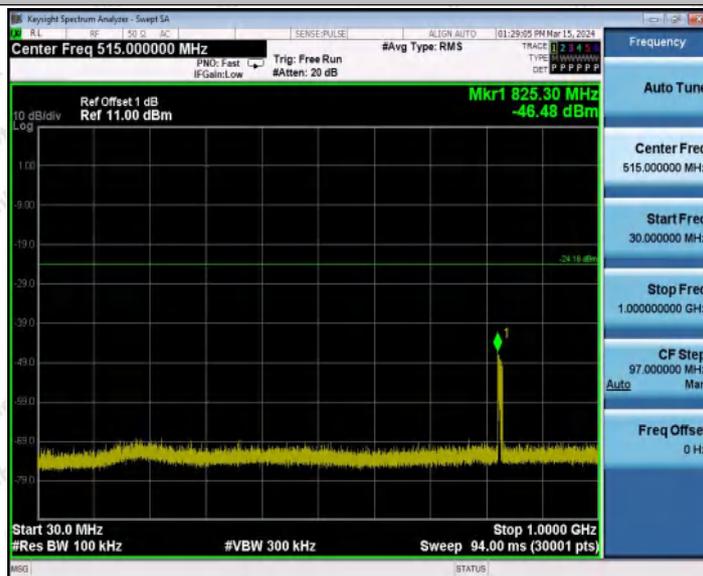




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



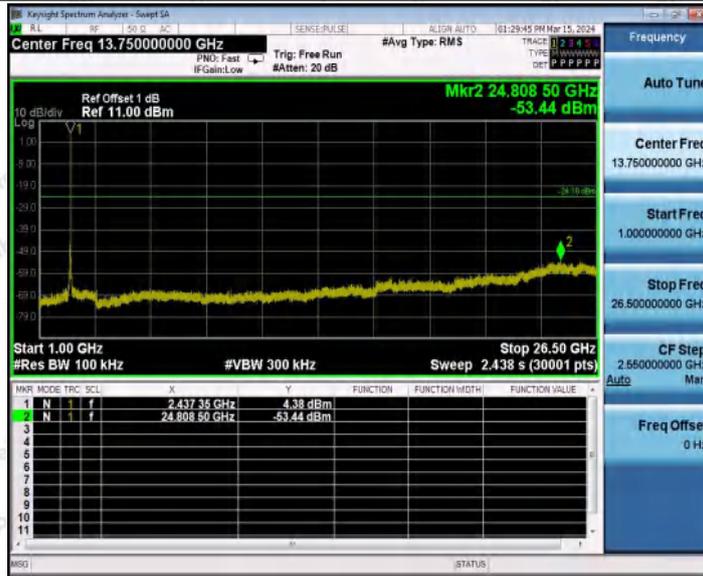
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000

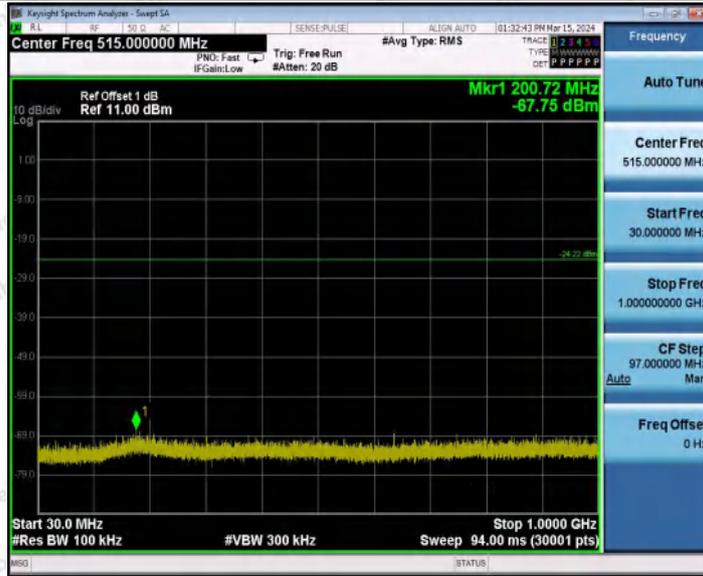
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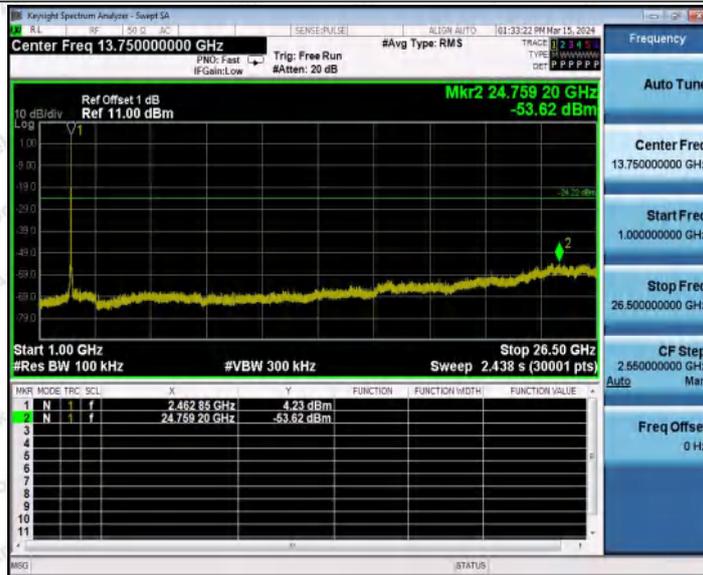


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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



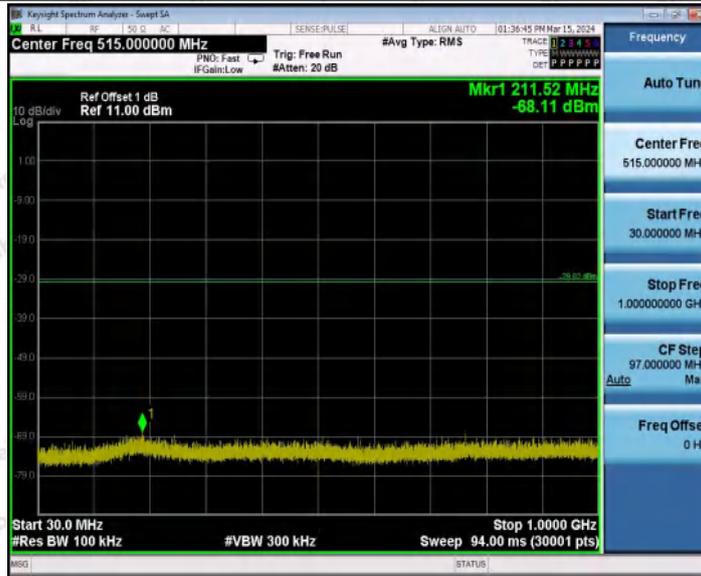
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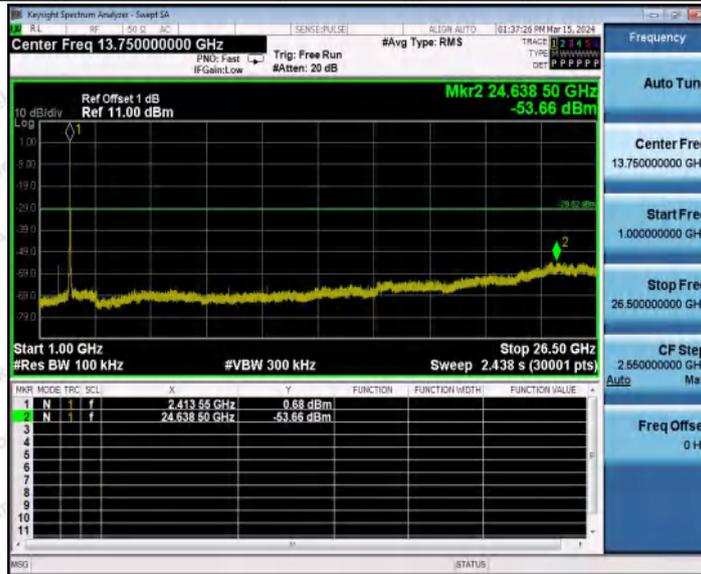
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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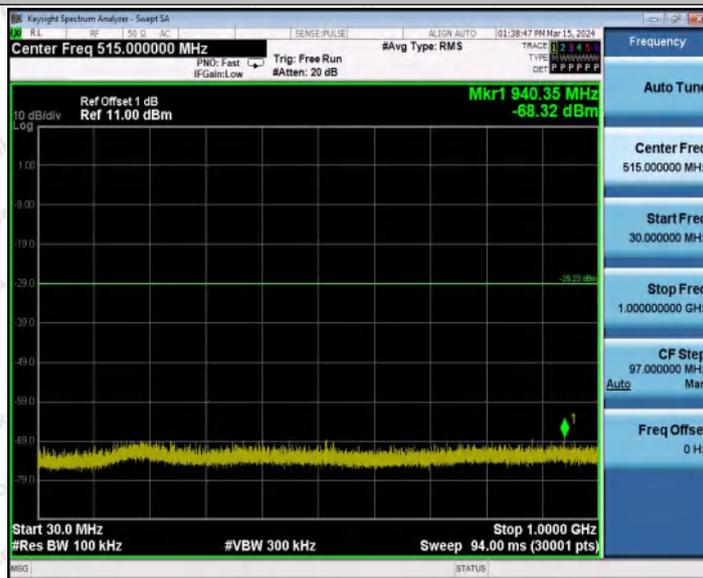
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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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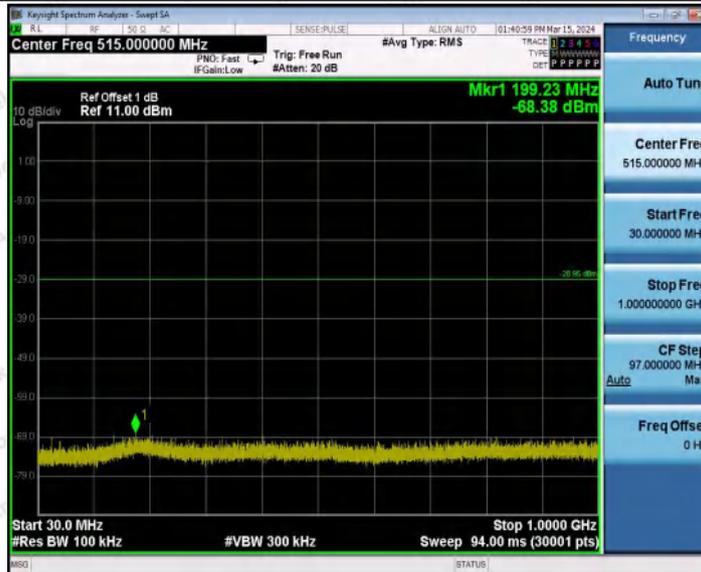
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



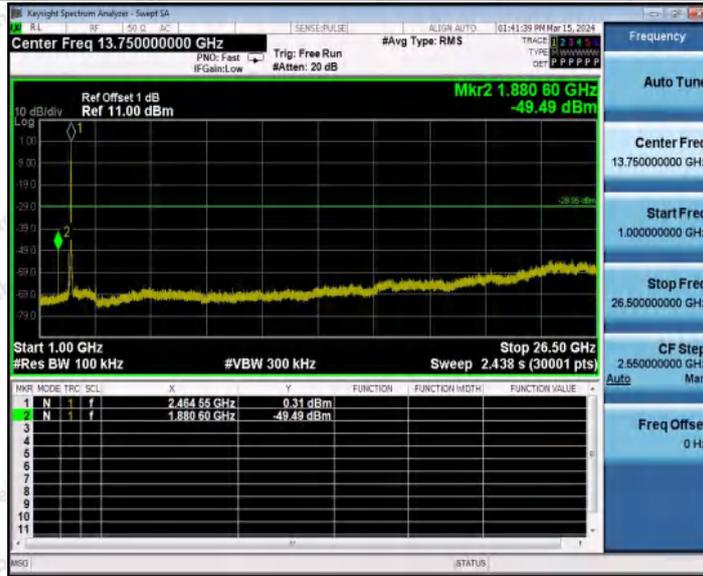
11G_Ant1_2462_1000~26500

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11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



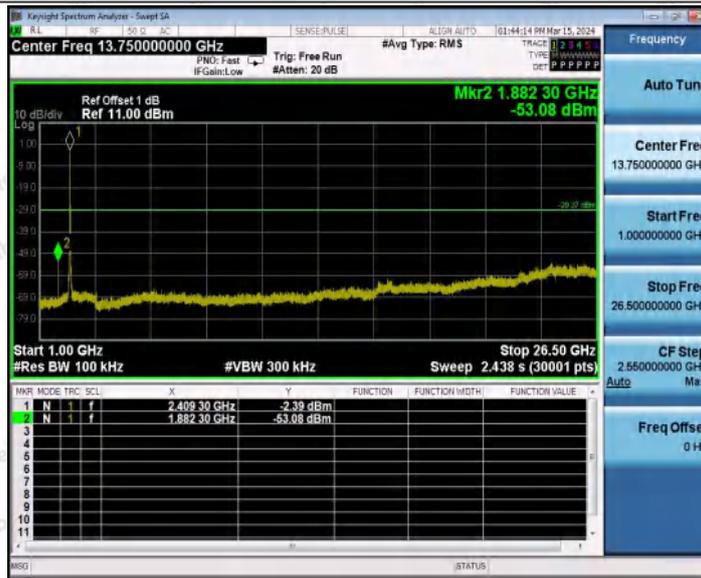
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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

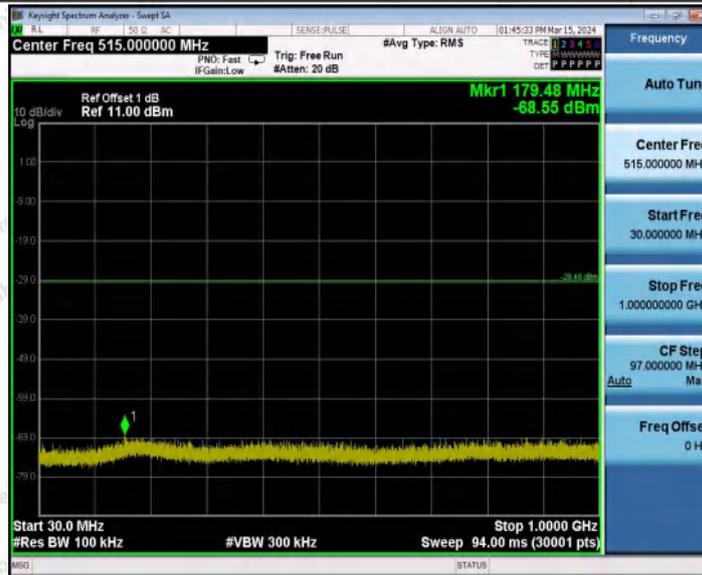
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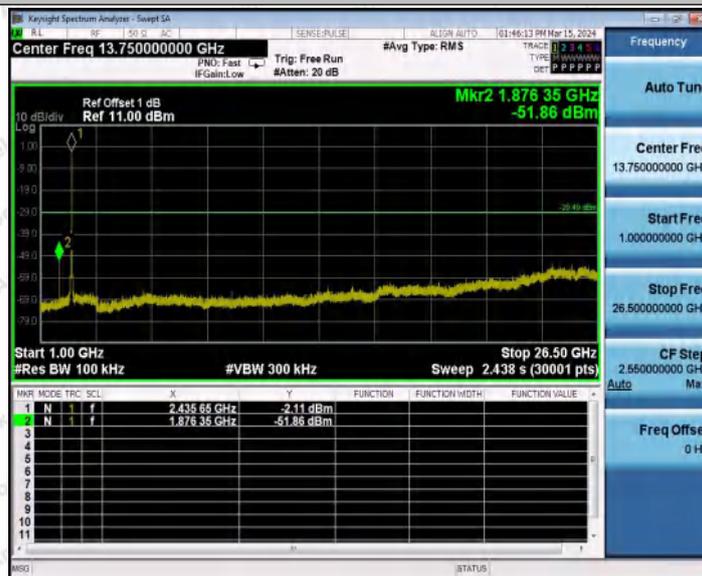


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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



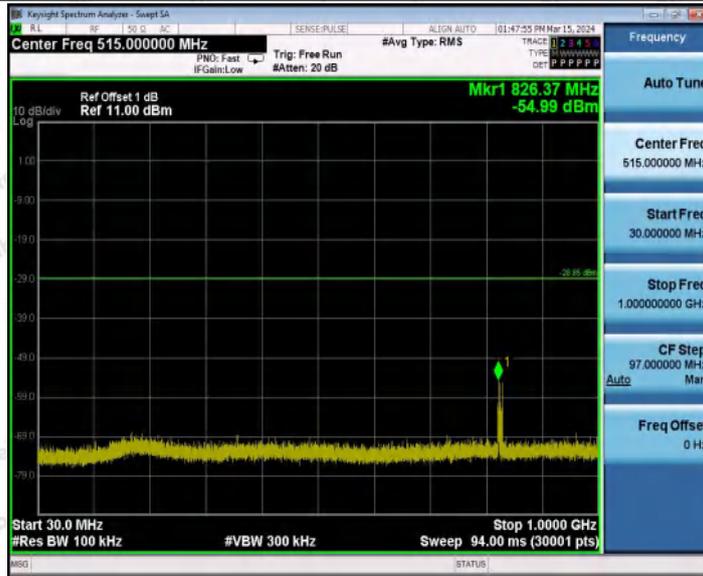
Shenzhen Anbotek Compliance Laboratory Limited

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

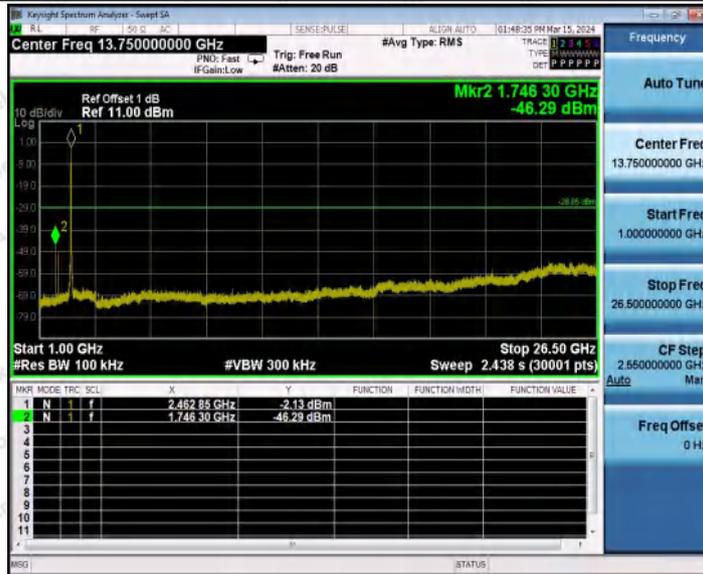
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11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



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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	8.41	8.50	98.94	0.05
		2437	8.41	8.51	98.82	0.05
		2462	8.42	8.51	98.94	0.05
11G	Ant1	2412	1.39	1.49	93.29	0.30
		2437	1.39	1.50	92.67	0.33
		2462	1.39	1.50	92.67	0.33
11N20SISO	Ant1	2412	1.31	1.41	92.91	0.32
		2437	1.31	1.41	92.91	0.32
		2462	1.30	1.40	92.86	0.32

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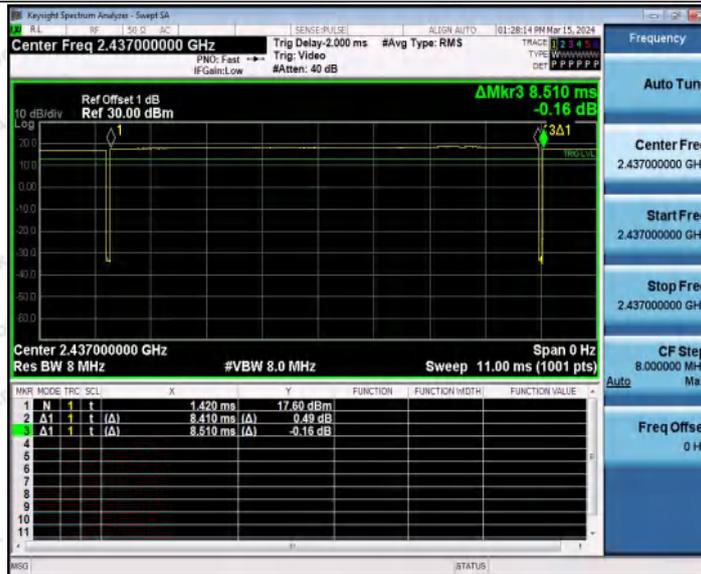


Test Graphs

11B_Ant1_2412

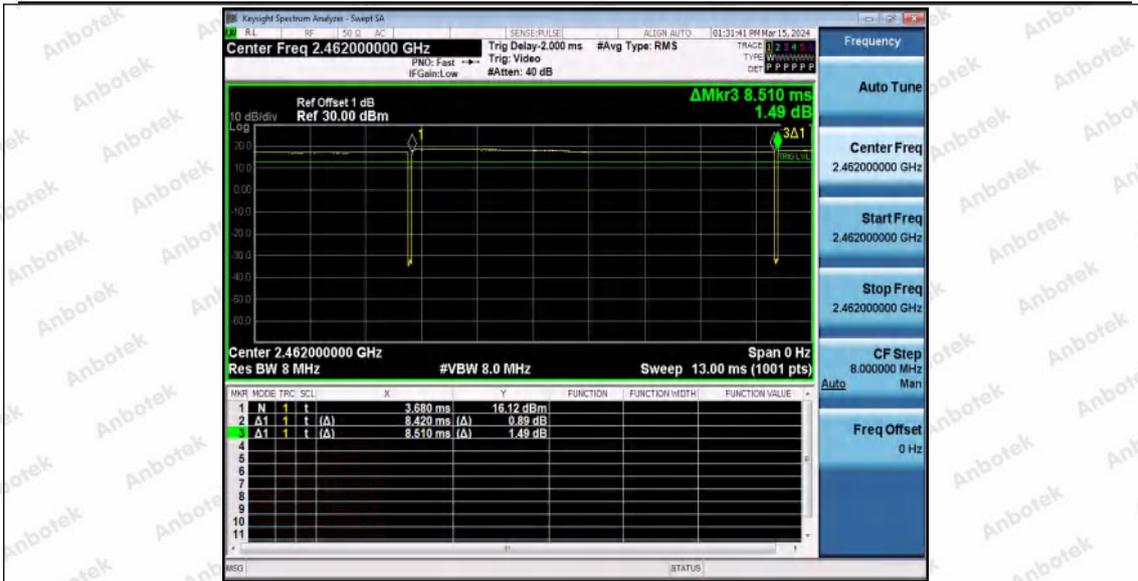


11B_Ant1_2437



11B_Ant1_2462

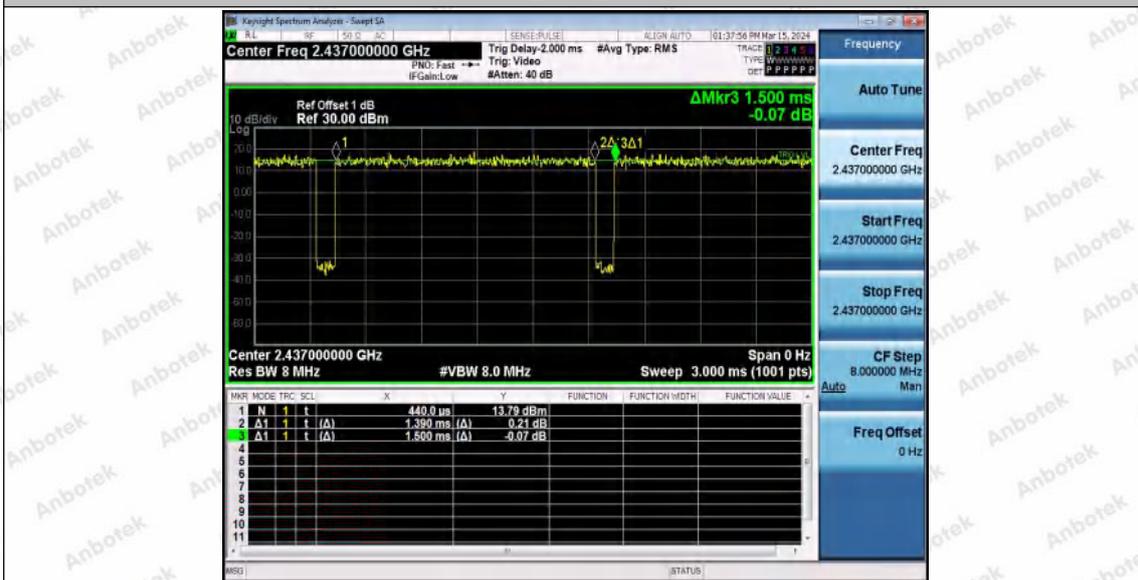




11G_Ant1_2412



11G_Ant1_2437



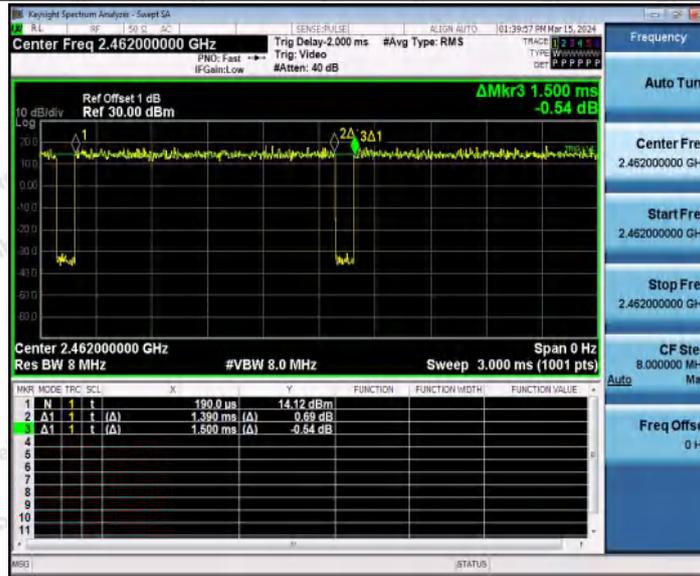
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

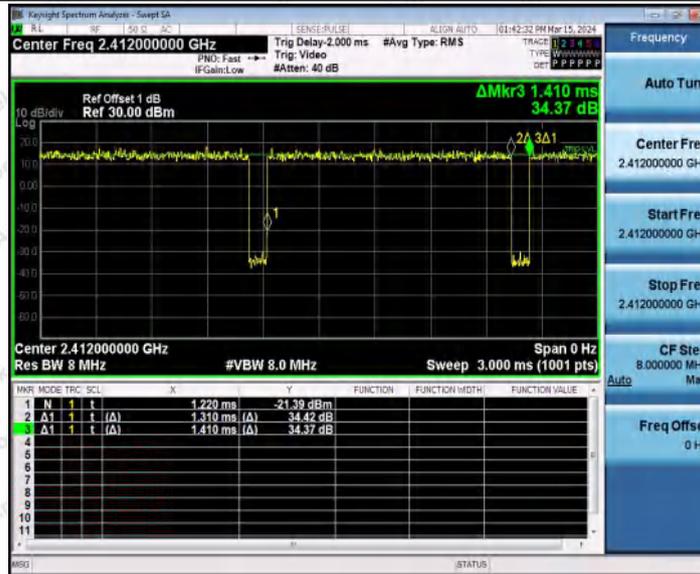
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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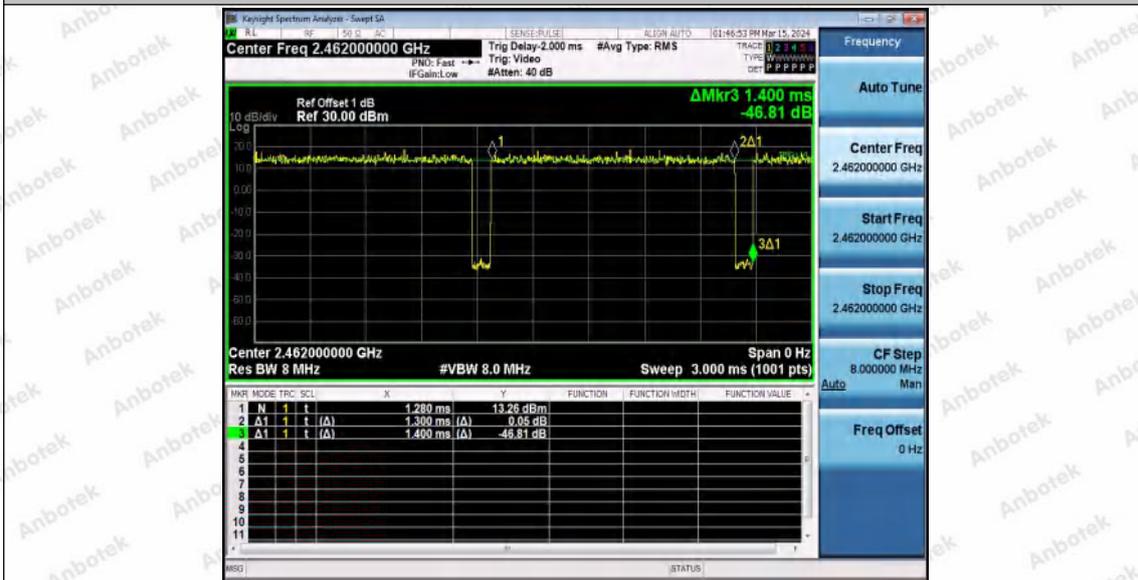
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11N20SISO_Ant1_2462



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