

Appendix Test Data

Report No.:	18220WC40034602	Test Sample No.:	1-2-2
Start Test Date:	2024.3.16	Finish Test Date:	2024.3.16
Test Engineer:	<i>Joker Wong</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.3°C	Relative Humidity:	48%
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	8.520	2408.000	2416.520	0.5	PASS
		2437	8.520	2432.480	2441.000	0.5	PASS
		2462	9.080	2457.440	2466.520	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	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	17.560	2428.200	2445.760	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS

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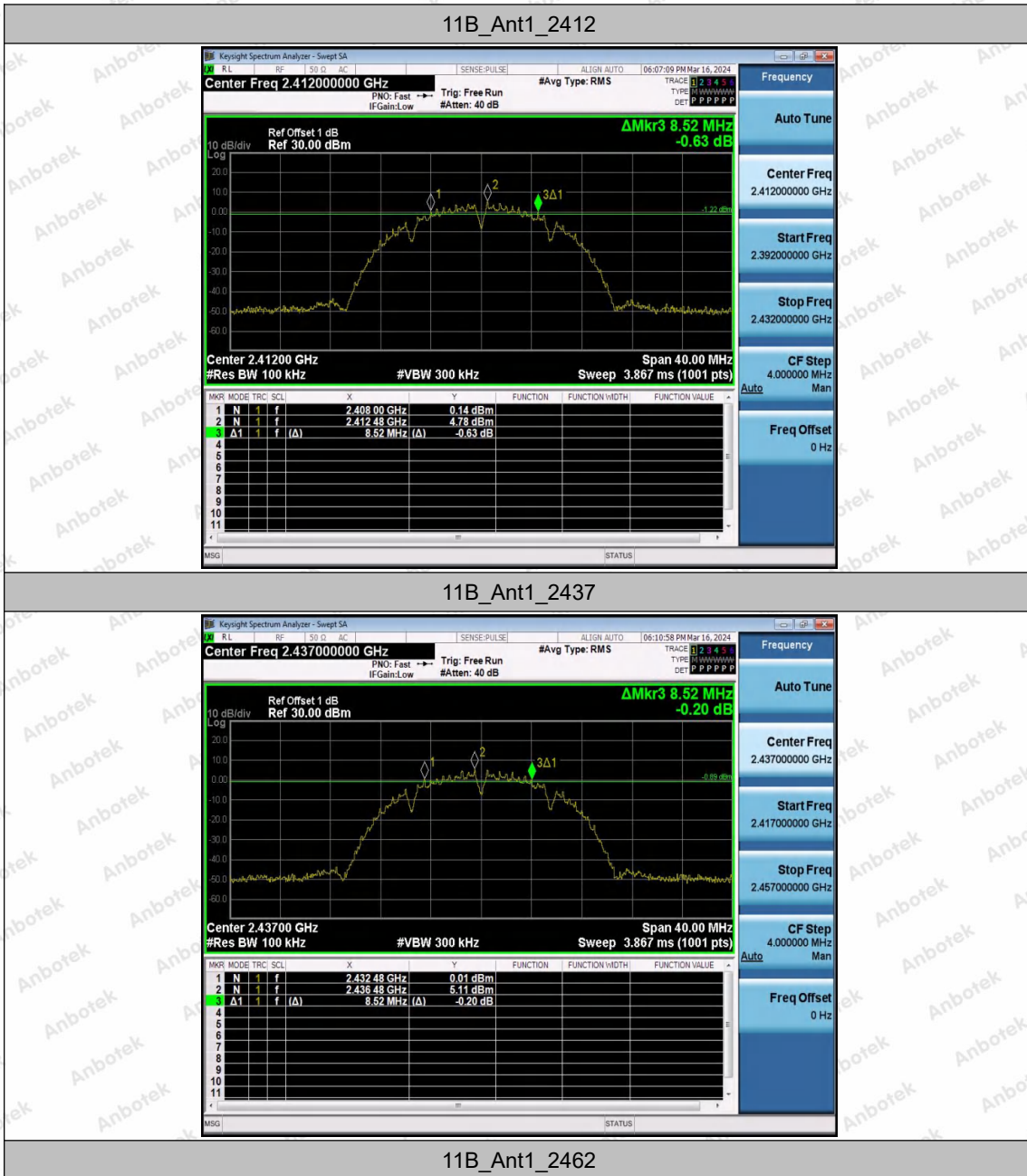
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Test Graphs



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11G_Ant1_2412



11G_Ant1_2437

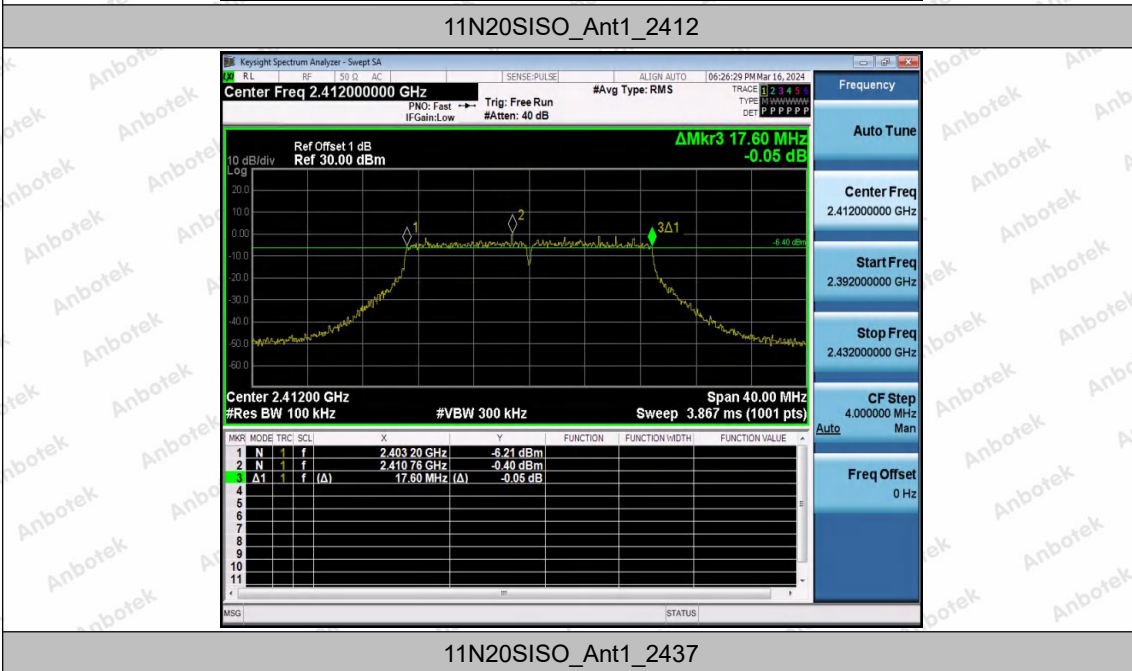
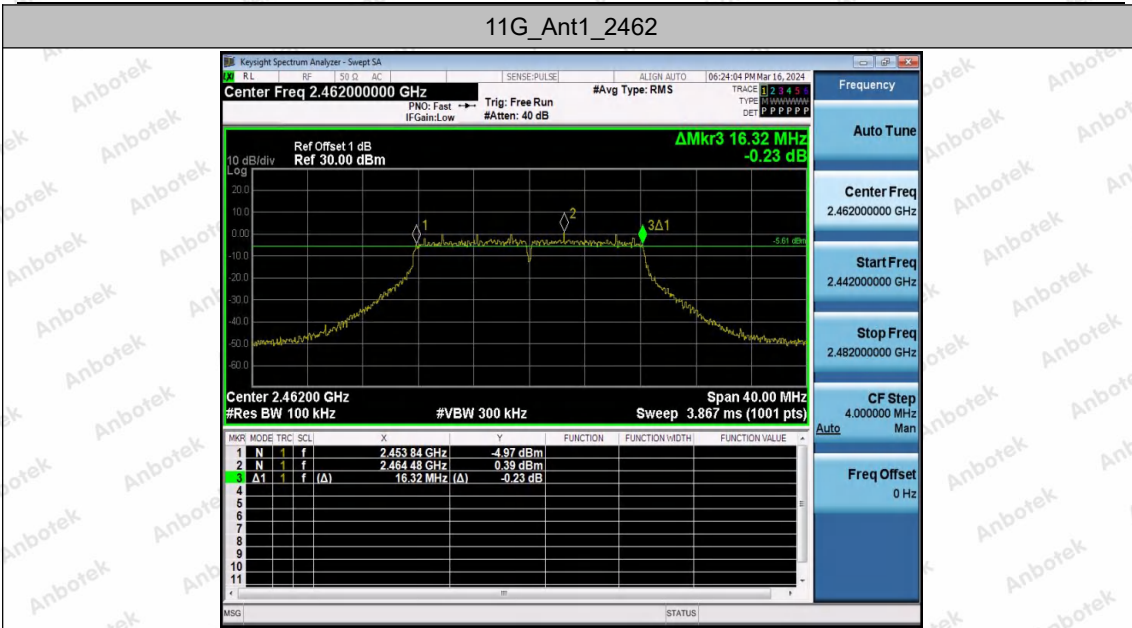


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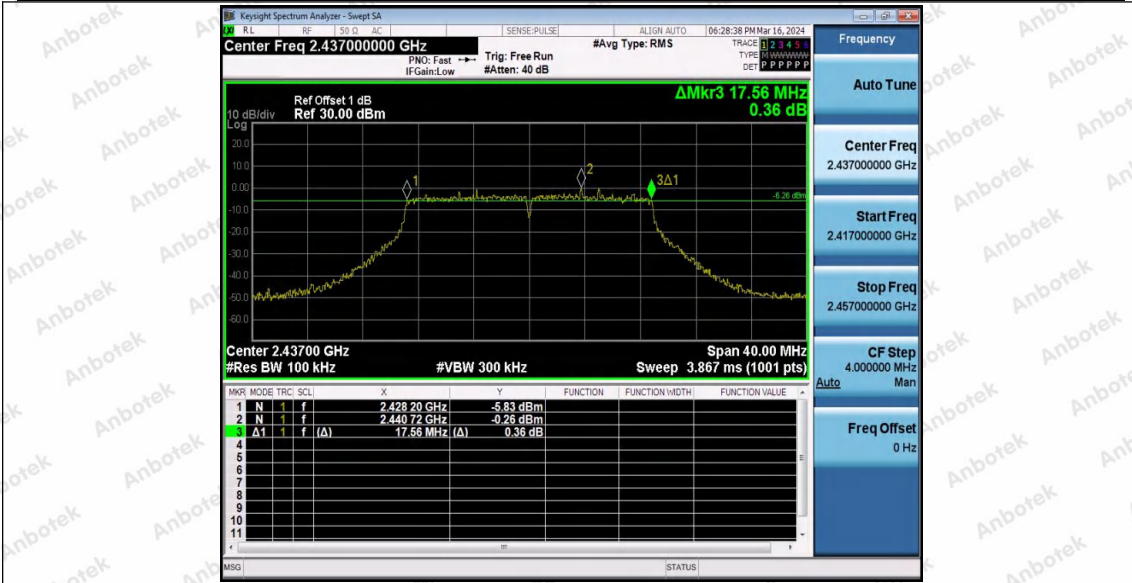
11N20SISO_Ant1_2437

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11N20SISO_Ant1_2462



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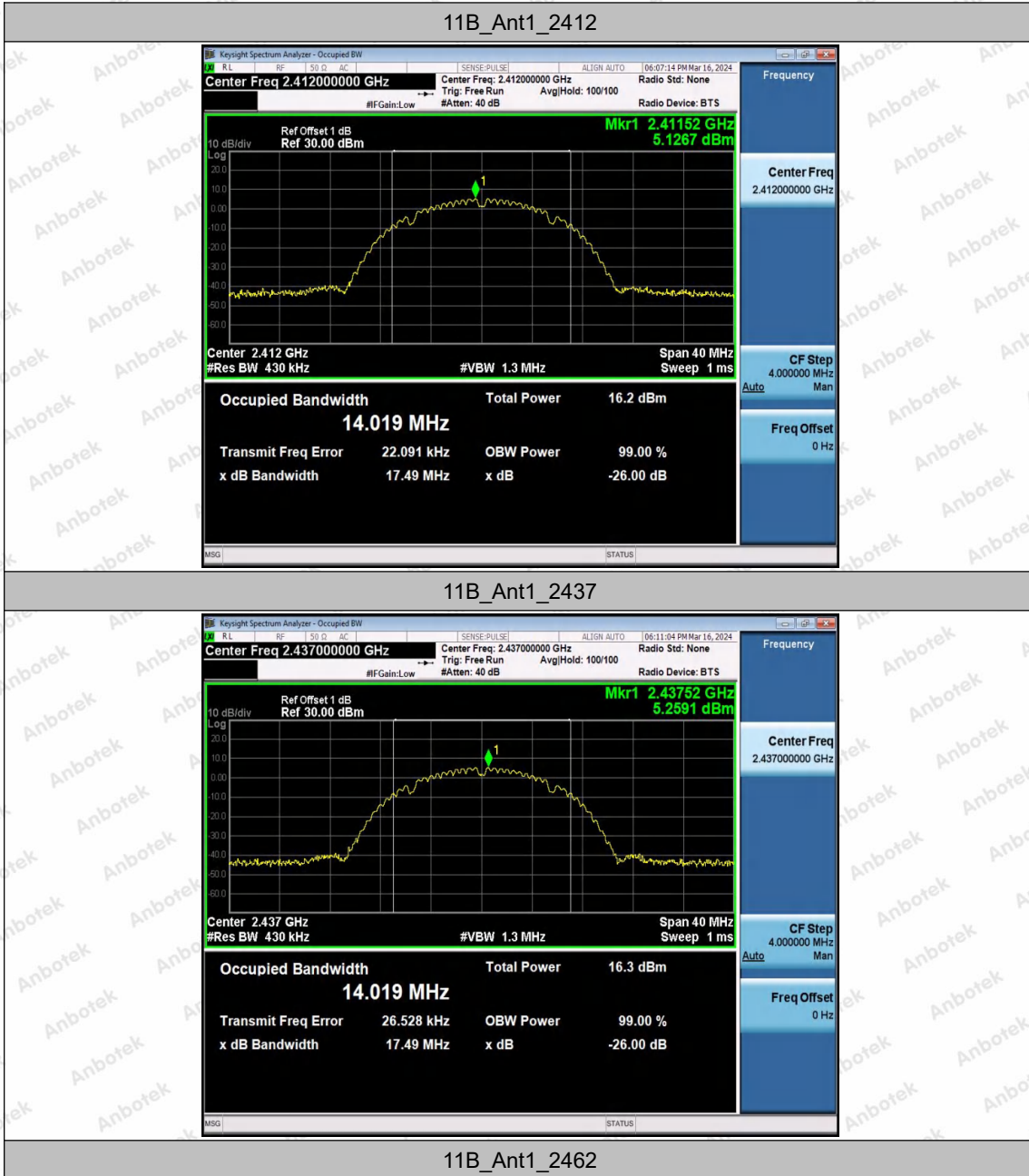
Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.019	2405.0126	2419.0316	---	---
		2437	14.019	2430.0170	2444.0360	---	---
		2462	14.015	2455.0196	2469.0346	---	---
11G	Ant1	2412	17.120	2403.4278	2420.5478	---	---
		2437	17.090	2428.4842	2445.5742	---	---
		2462	17.147	2453.4310	2470.5780	---	---
11N20SISO	Ant1	2412	18.192	2402.9129	2421.1049	---	---
		2437	18.255	2427.9206	2446.1756	---	---
		2462	18.181	2452.9649	2471.1459	---	---



Test Graphs



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11G_Ant1_2412



11G_Ant1_2437

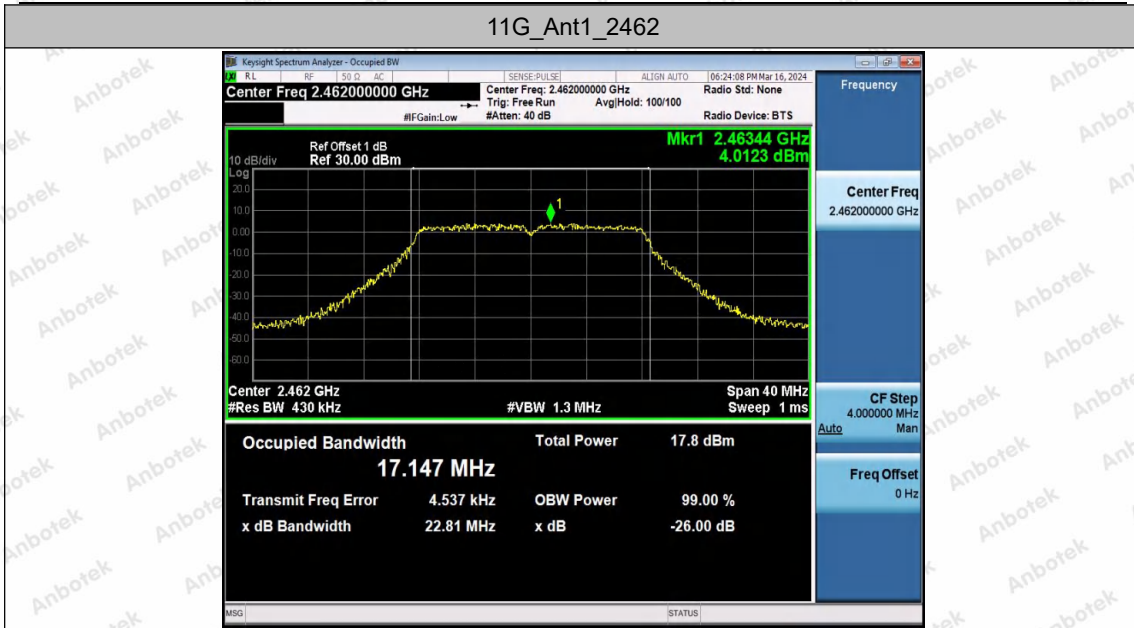


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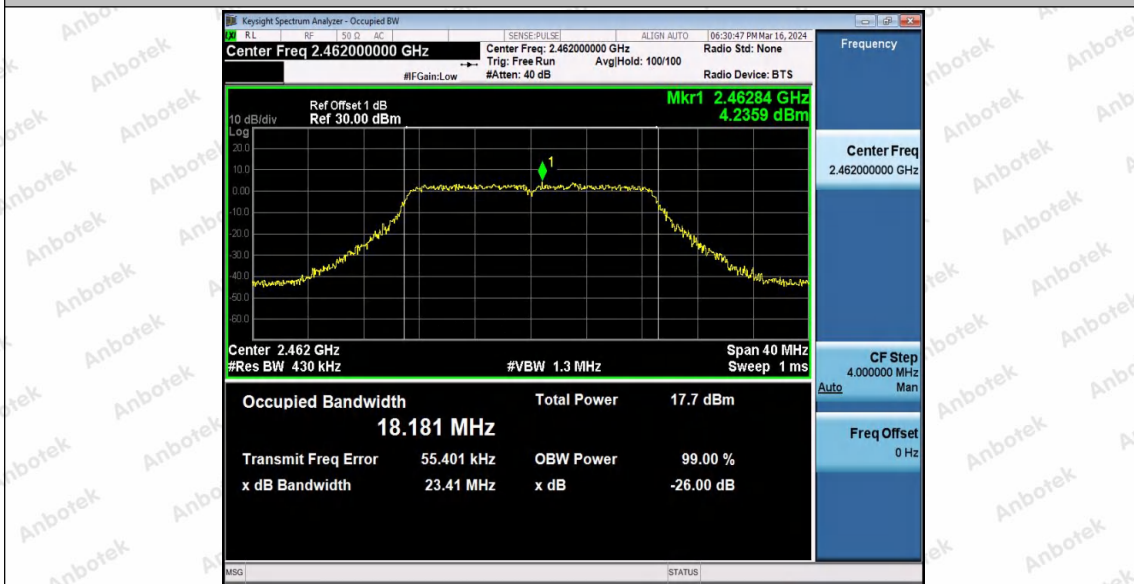
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11N20SISO_Ant1_2462



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Appendix C: Maximum conducted output power

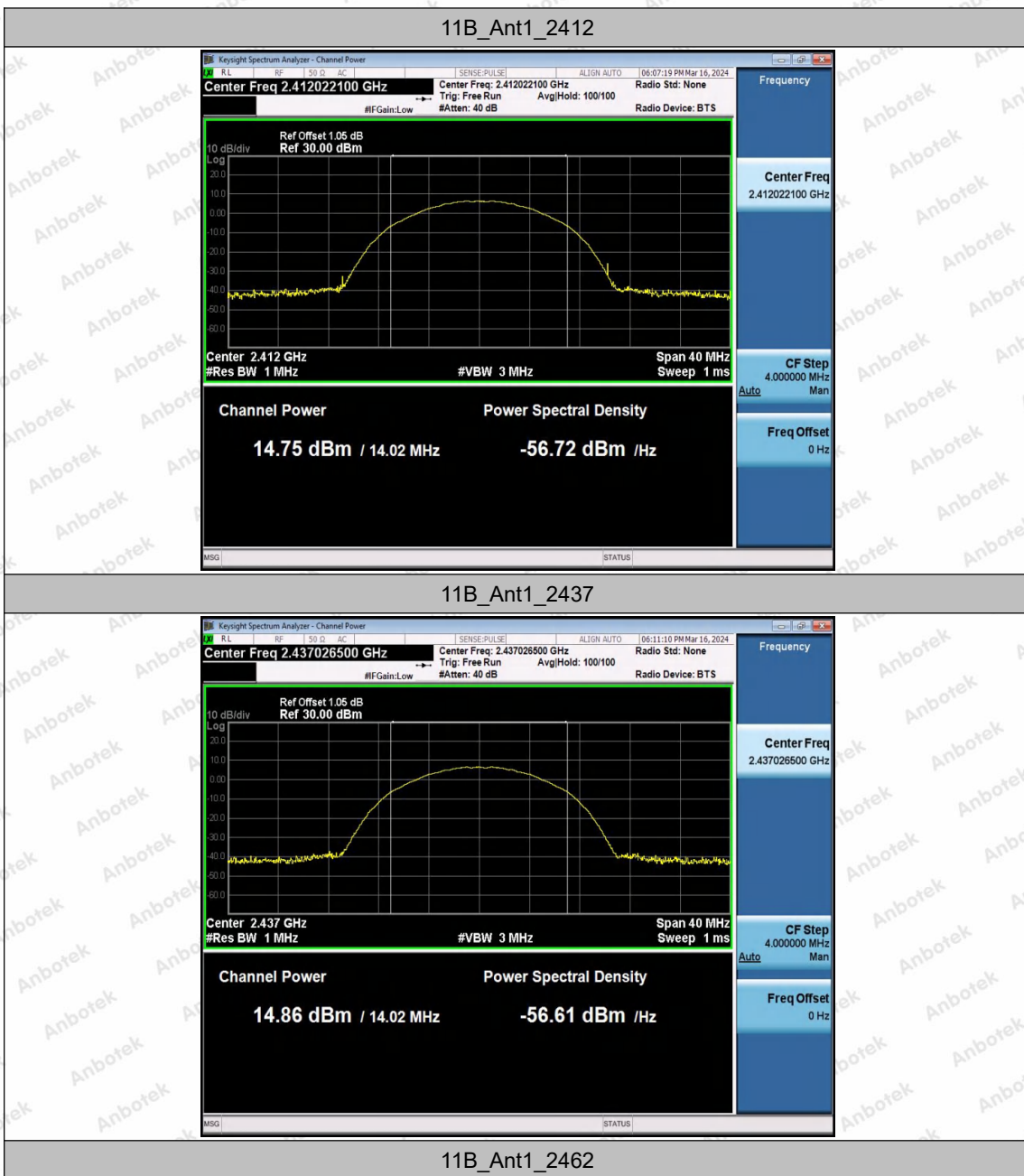
Test Result Average

Test Mode	Antenna	Frequency [MHz]	Set Power	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	---	14.70	98.96	0.05	14.75	≤30.0 0	PASS
		2437	---	14.81	98.96	0.05	14.86	≤30.0 0	PASS
		2462	---	15.01	98.96	0.05	15.06	≤30.0 0	PASS
11G	Ant1	2412	---	15.72	94.06	0.27	15.99	≤30.0 0	PASS
		2437	---	15.88	94.06	0.27	16.15	≤30.0 0	PASS
		2462	---	16.09	94.06	0.27	16.36	≤30.0 0	PASS
11N20SI SO	Ant1	2412	---	15.69	93.66	0.28	15.97	≤30.0 0	PASS
		2437	---	15.85	93.66	0.28	16.13	≤30.0 0	PASS
		2462	---	16.08	93.66	0.28	16.36	≤30.0 0	PASS

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



Test Graphs



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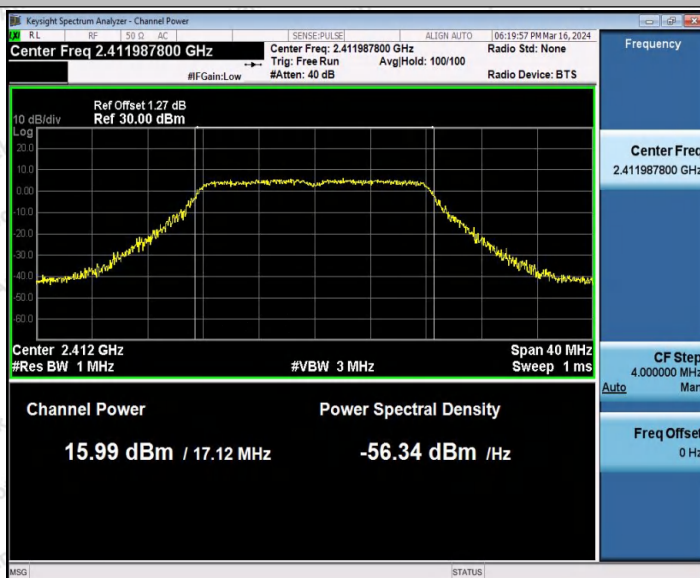
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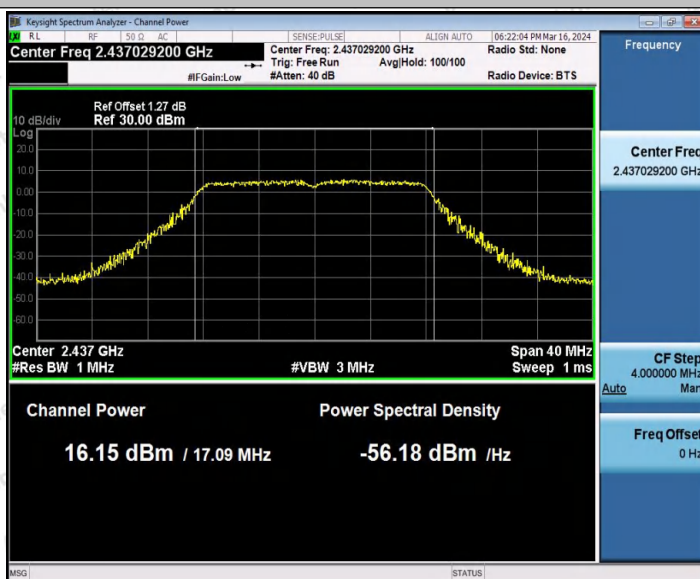




11G_Ant1_2412



11G_Ant1_2437



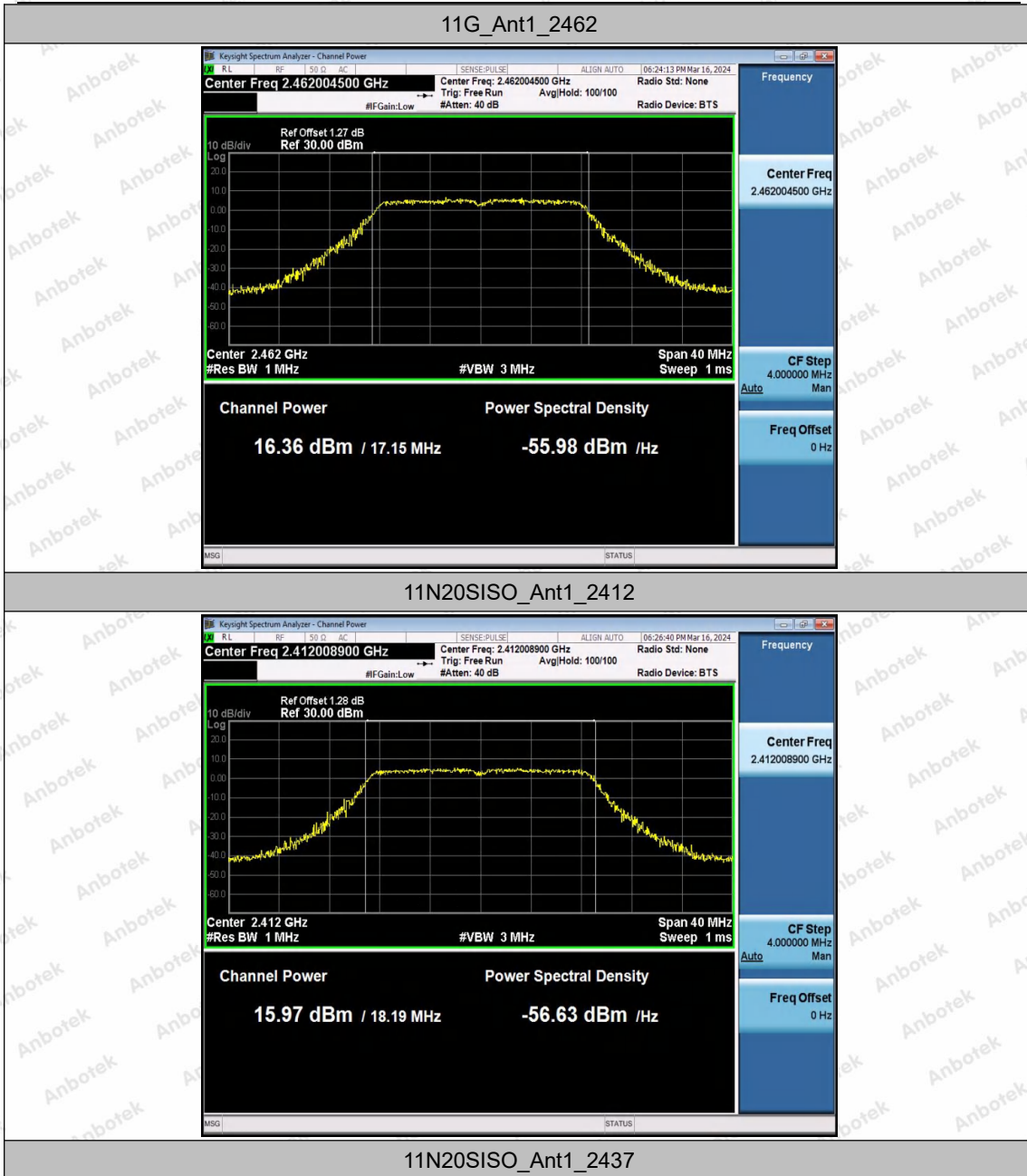
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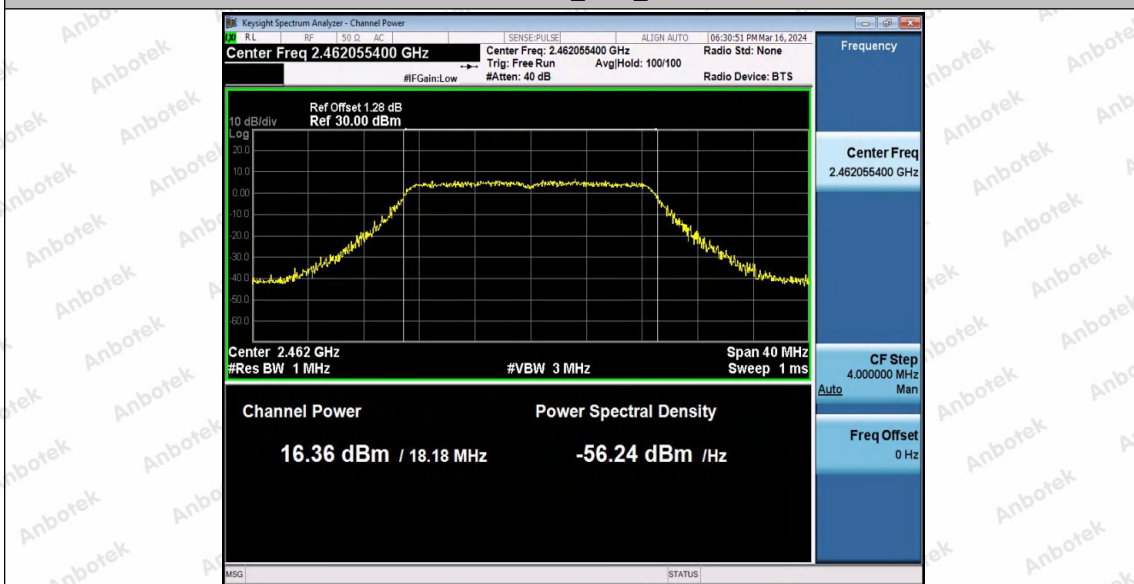
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11N20SISO_Ant1_2462



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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	-8.28	-18.28	≤8.00	PASS
		2437	-8.72	-18.72	≤8.00	PASS
		2462	-8.38	-18.38	≤8.00	PASS
11G	Ant1	2412	-13.08	-23.08	≤8.00	PASS
		2437	-12.69	-22.69	≤8.00	PASS
		2462	-12.28	-22.28	≤8.00	PASS
11N20SISO	Ant1	2412	-12.81	-22.81	≤8.00	PASS
		2437	-12.59	-22.59	≤8.00	PASS
		2462	-12.99	-22.99	≤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



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11G_Ant1_2412



11G_Ant1_2437



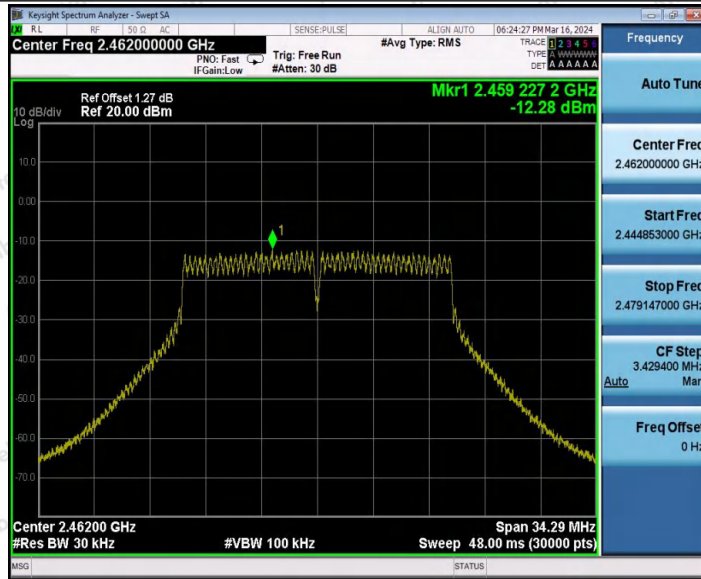
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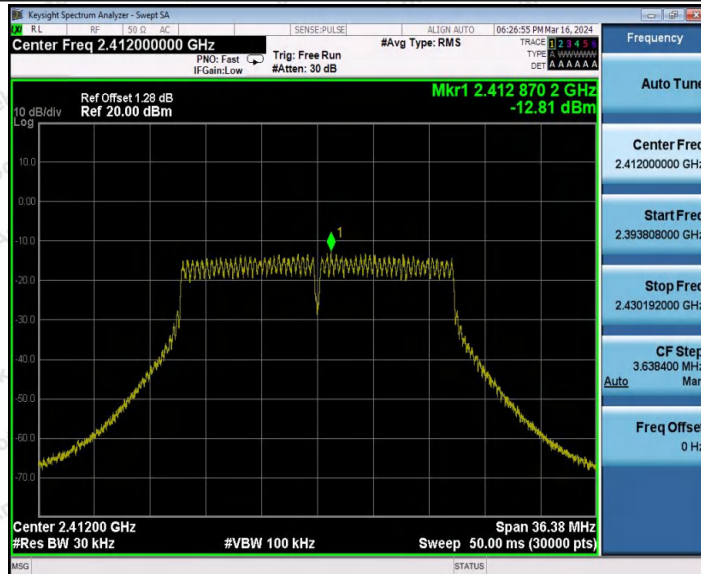
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11G_Ant1_2462



11N20SISO_Ant1_2412



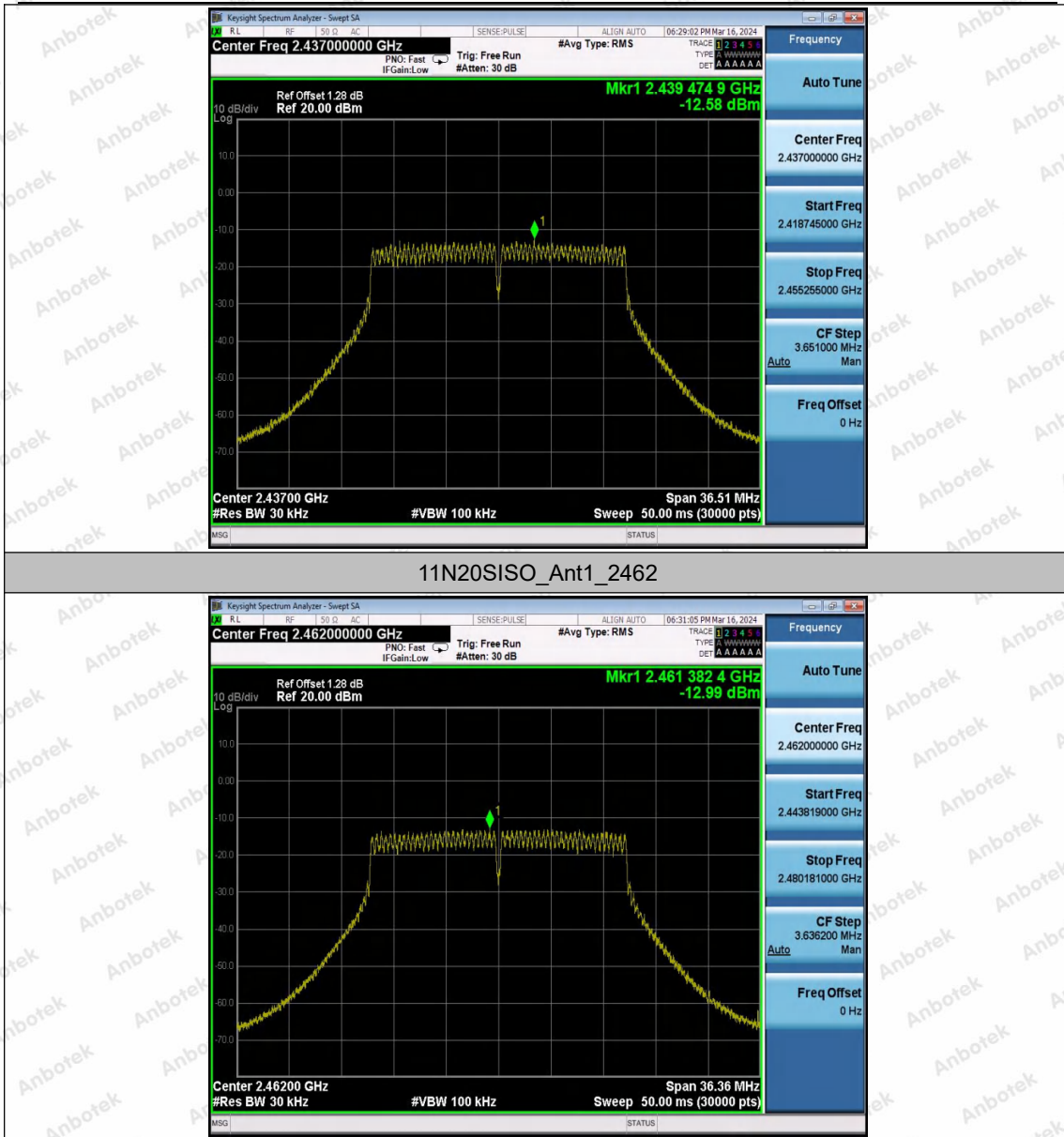
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Appendix E: Conducted Band edge

Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.67	-44.04	≤-25.33	PASS
		High	2462	5.24	-53.4	≤-24.76	PASS
11G	Ant1	Low	2412	0.43	-33.97	≤-29.57	PASS
		High	2462	0.76	-53.47	≤-29.24	PASS
11N20SISO	Ant1	Low	2412	0.30	-33.02	≤-29.71	PASS
		High	2462	0.84	-53.36	≤-29.16	PASS

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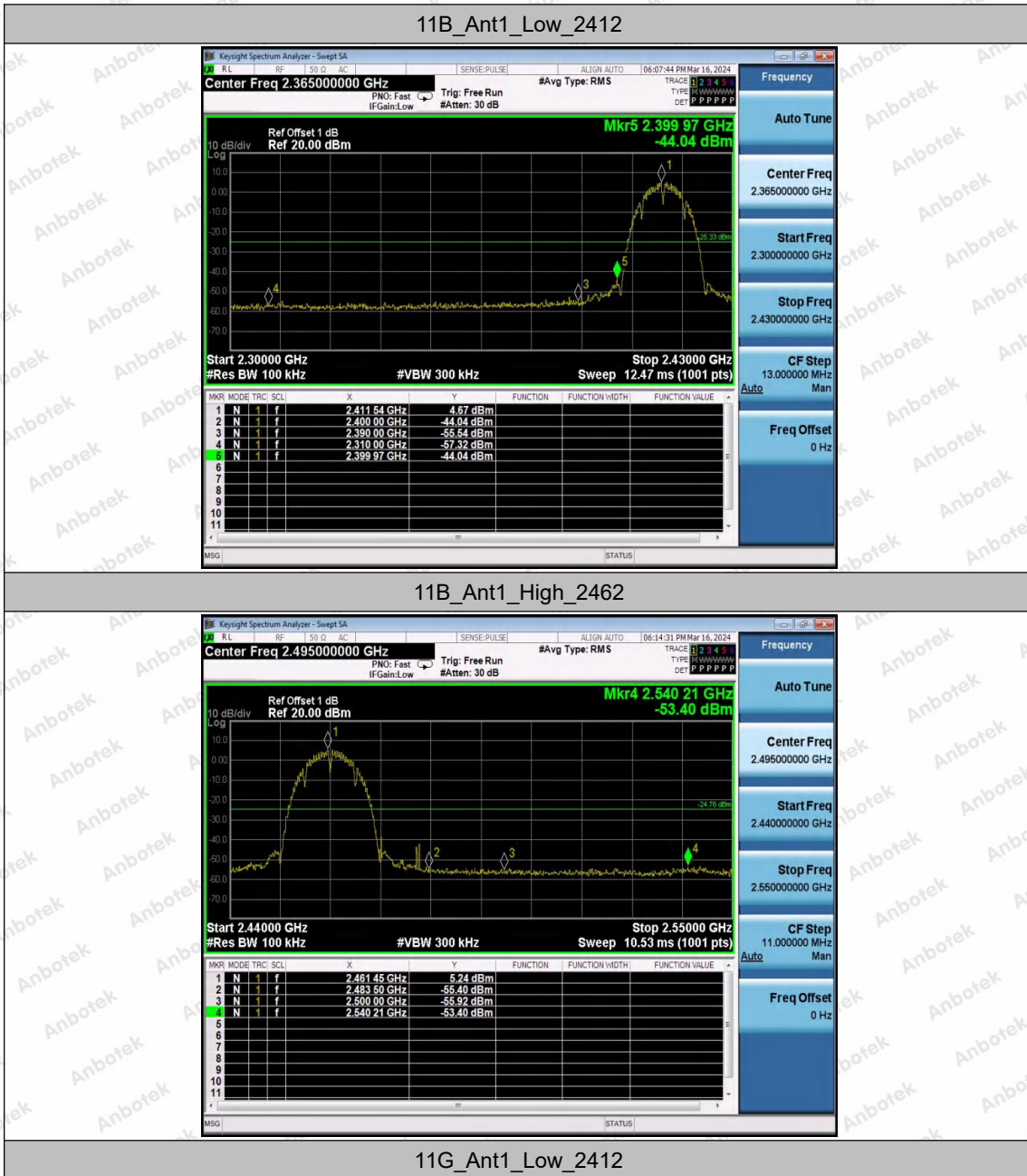
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Test Graphs

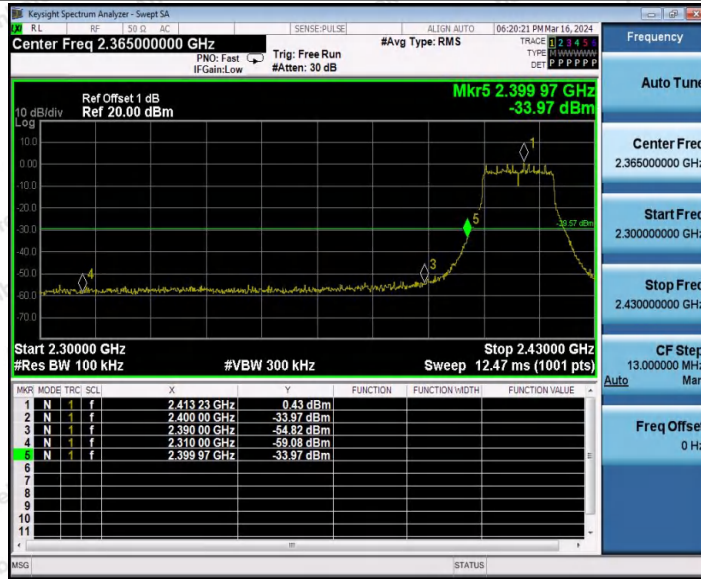


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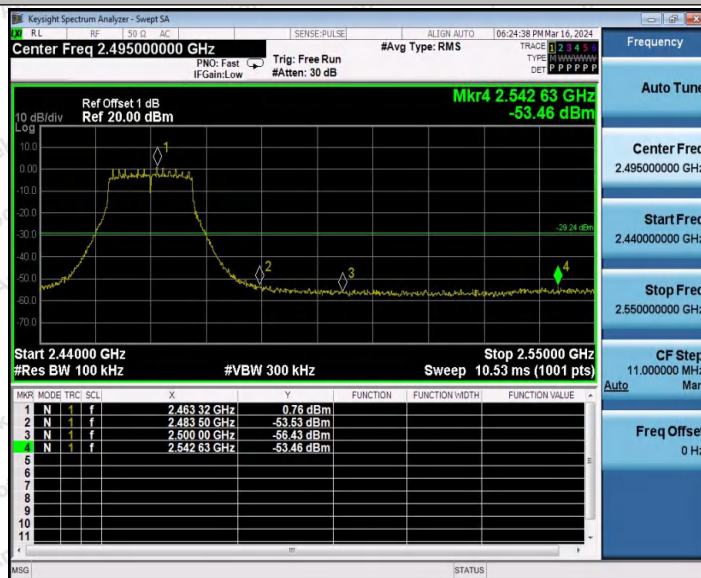
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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

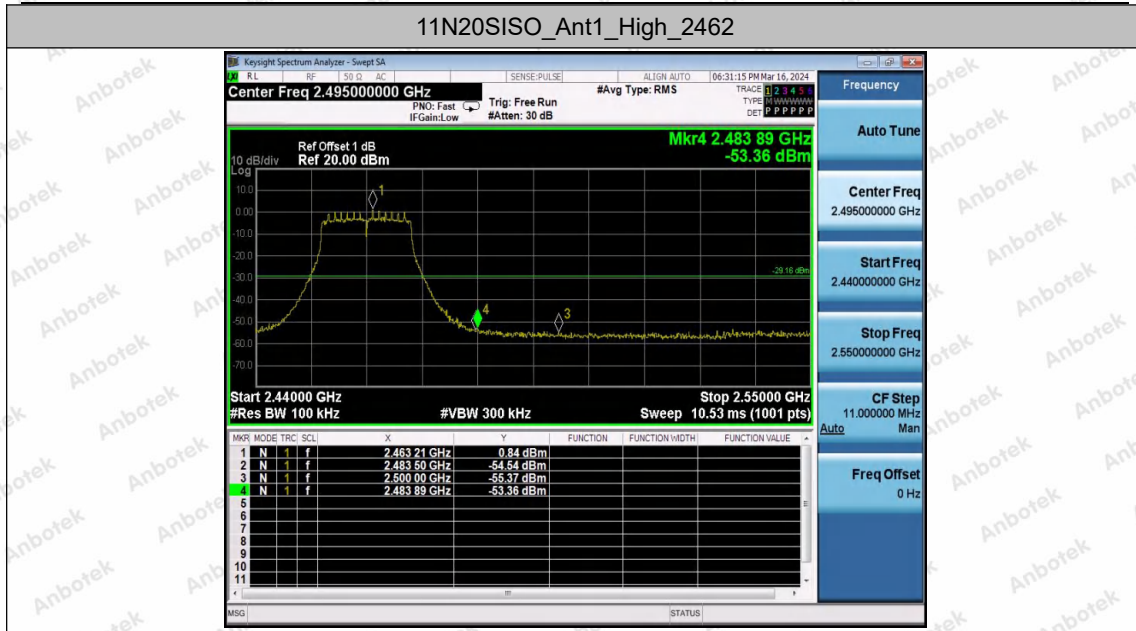


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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.88	4.88	---	PASS
			30~1000	4.88	-67.66	≤-25.12	PASS
			1000~26500	4.88	-53.47	≤-25.12	PASS
		2437	Reference	5.10	5.10	---	PASS
			30~1000	5.10	-66.51	≤-24.9	PASS
			1000~26500	5.10	-52.98	≤-24.9	PASS
		2462	Reference	5.21	5.21	---	PASS
			30~1000	5.21	-67.69	≤-24.79	PASS
			1000~26500	5.21	-51.88	≤-24.79	PASS
11G	Ant1	2412	Reference	0.40	0.40	---	PASS
			30~1000	0.40	-66.76	≤-29.6	PASS
			1000~26500	0.40	-53.52	≤-29.6	PASS
		2437	Reference	0.56	0.56	---	PASS
			30~1000	0.56	-66.86	≤-29.44	PASS
			1000~26500	0.56	-53.96	≤-29.44	PASS
		2462	Reference	0.79	0.79	---	PASS
			30~1000	0.79	-66.73	≤-29.21	PASS
			1000~26500	0.79	-52.89	≤-29.21	PASS
11N20SISO	Ant1	2412	Reference	0.35	0.35	---	PASS
			30~1000	0.35	-67.52	≤-29.65	PASS
			1000~26500	0.35	-53.12	≤-29.65	PASS
		2437	Reference	0.26	0.26	---	PASS
			30~1000	0.26	-67.4	≤-29.74	PASS
			1000~26500	0.26	-52.94	≤-29.74	PASS
		2462	Reference	0.85	0.85	---	PASS
			30~1000	0.85	-67.06	≤-29.15	PASS
			1000~26500	0.85	-53.35	≤-29.15	PASS

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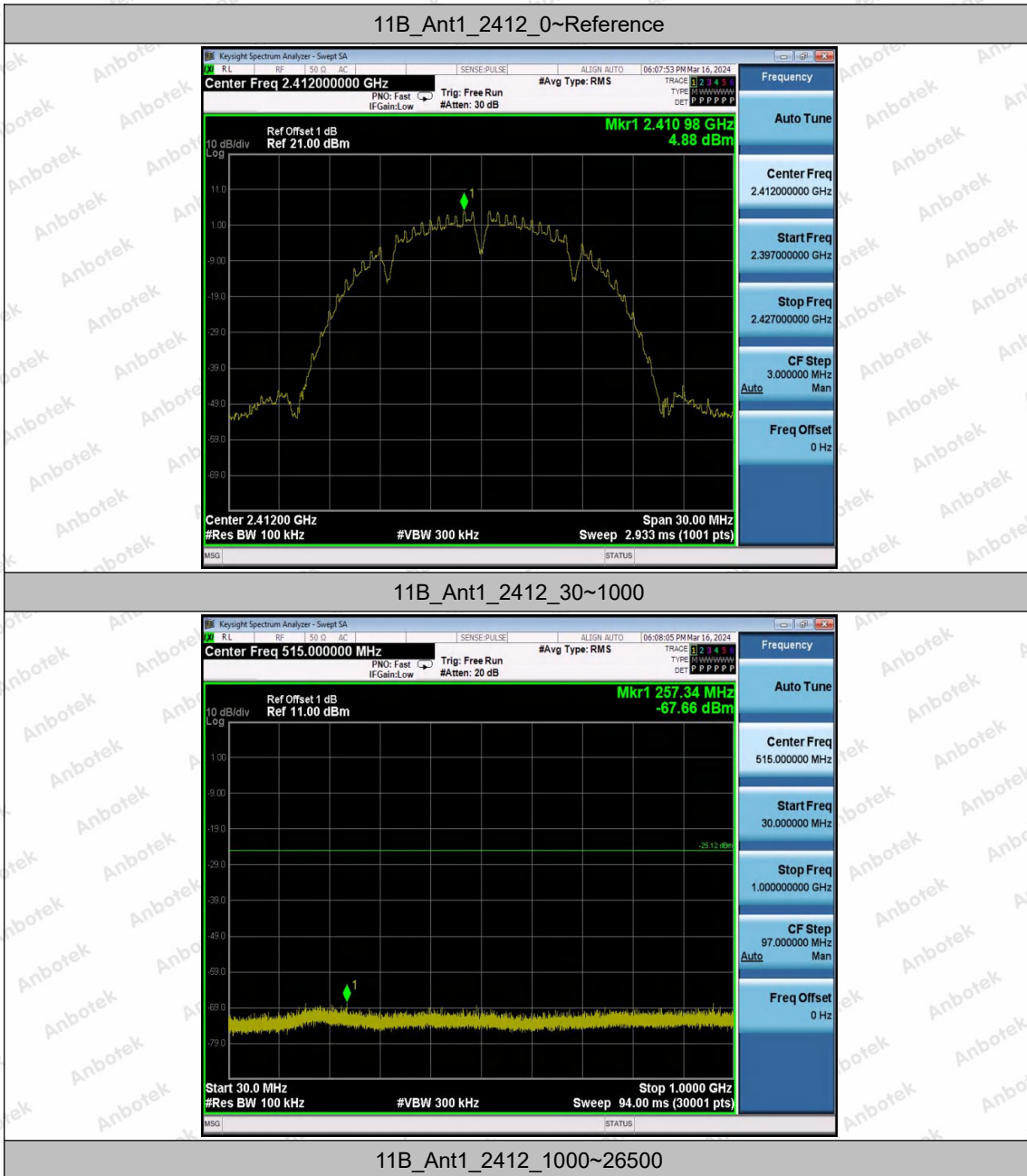
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Test Graphs

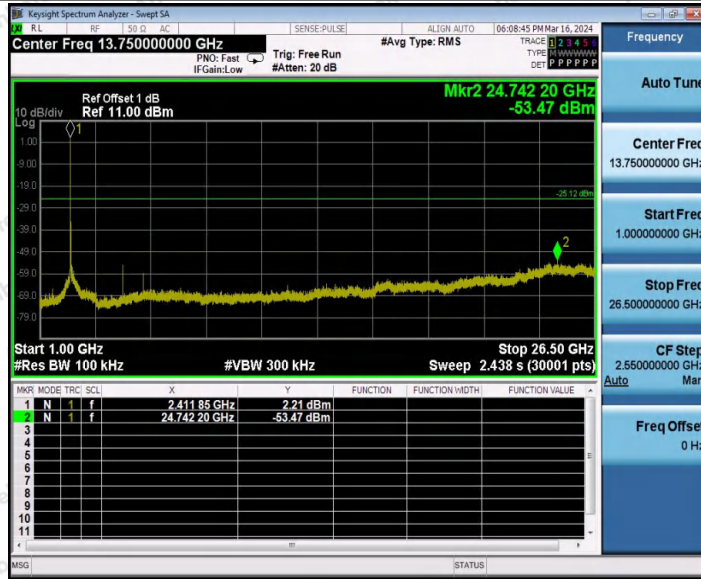


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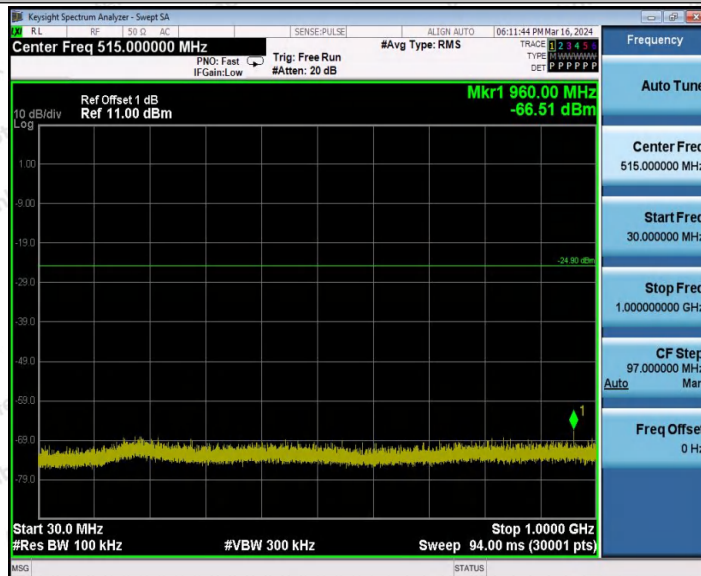




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



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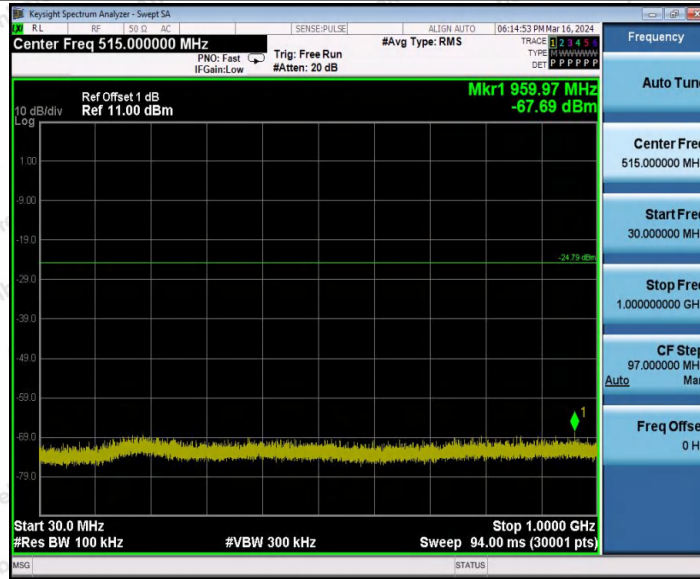


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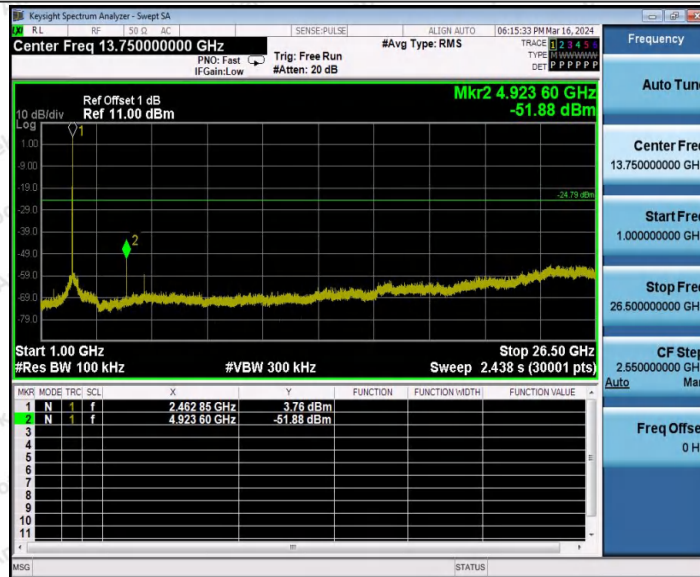
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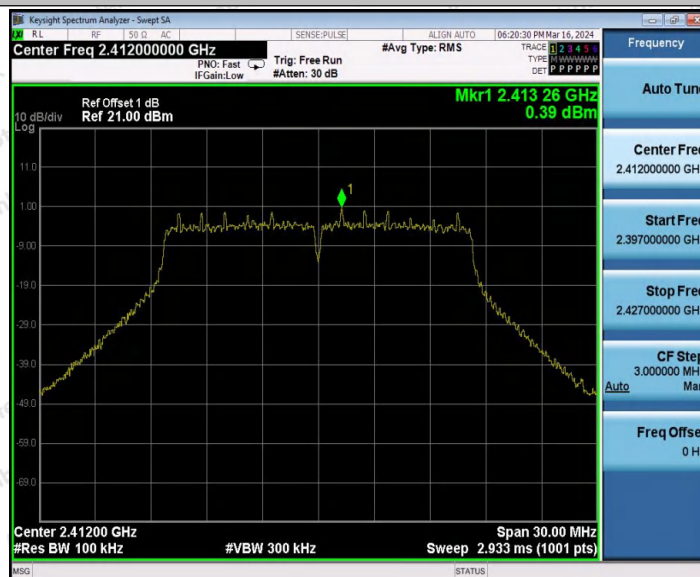




11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



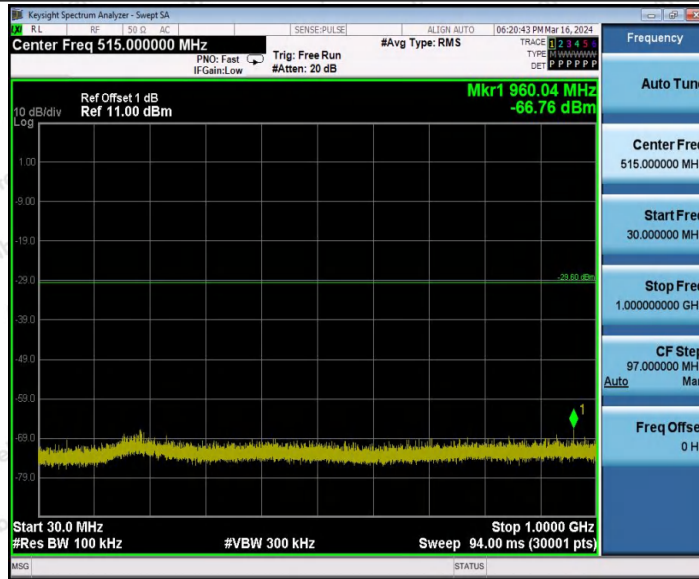
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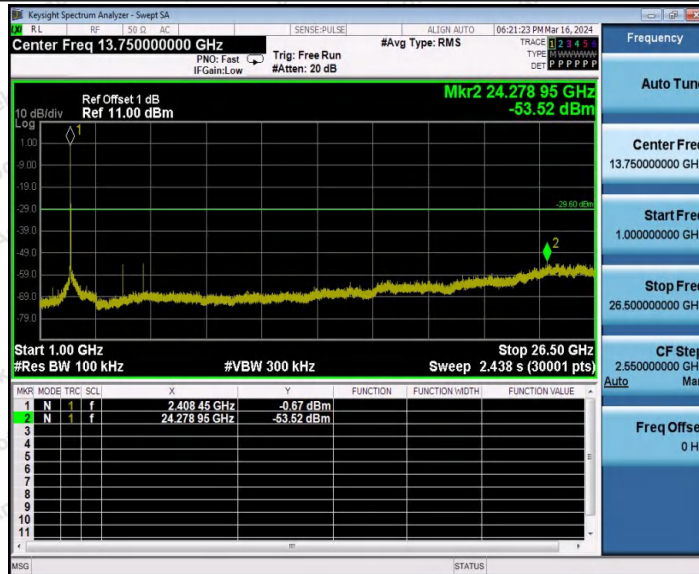
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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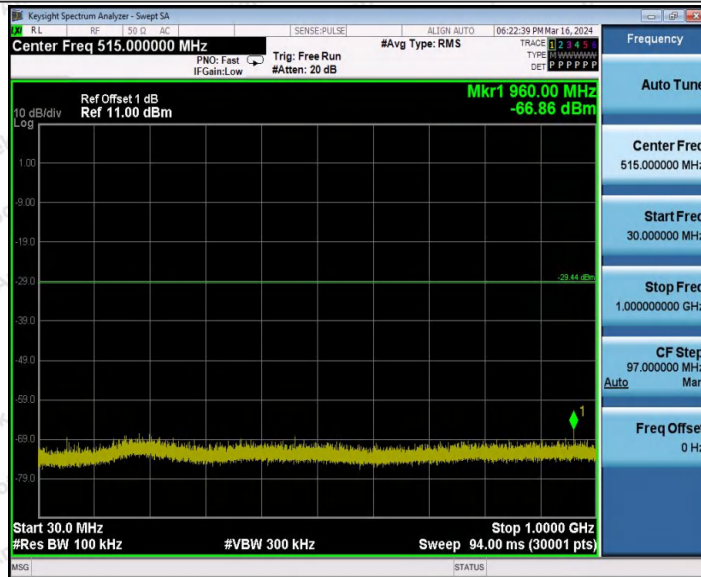
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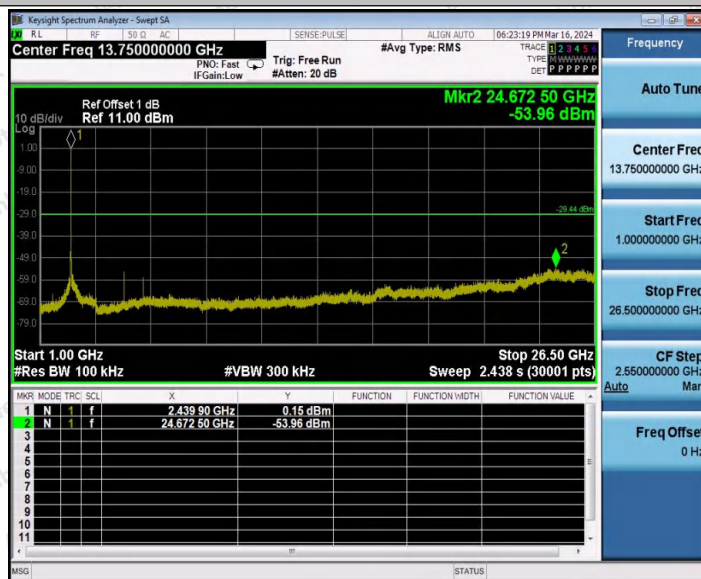




11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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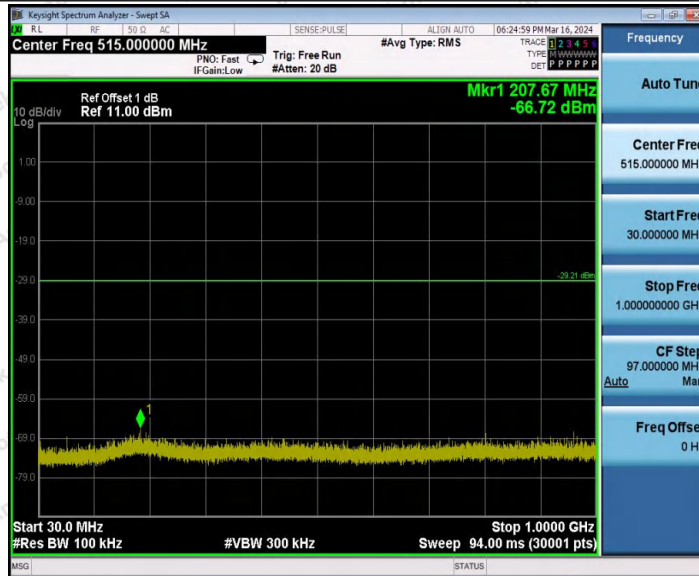
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



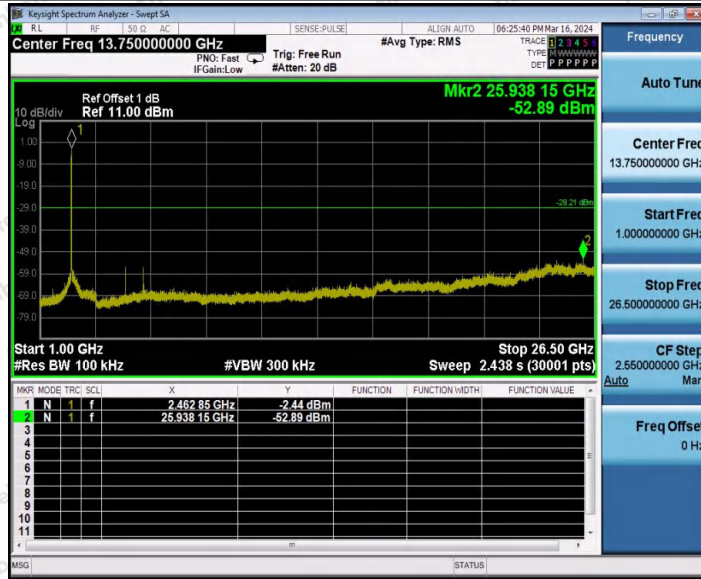
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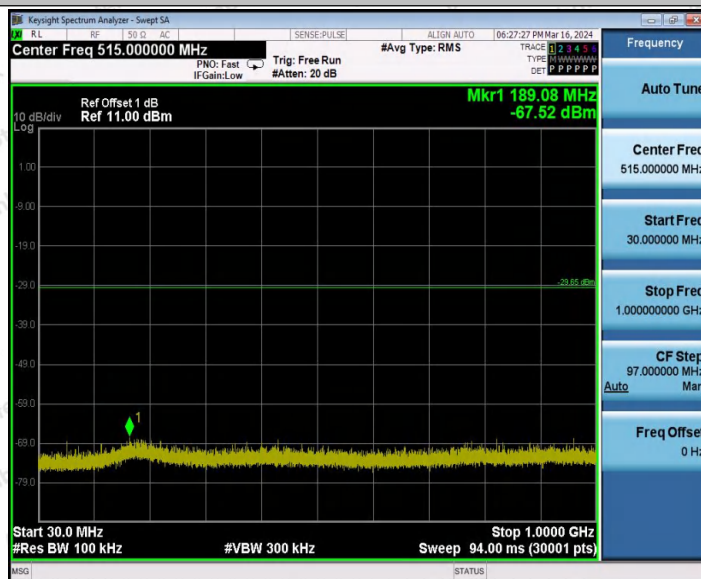




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11N20SISO_Ant1_2412_30~1000



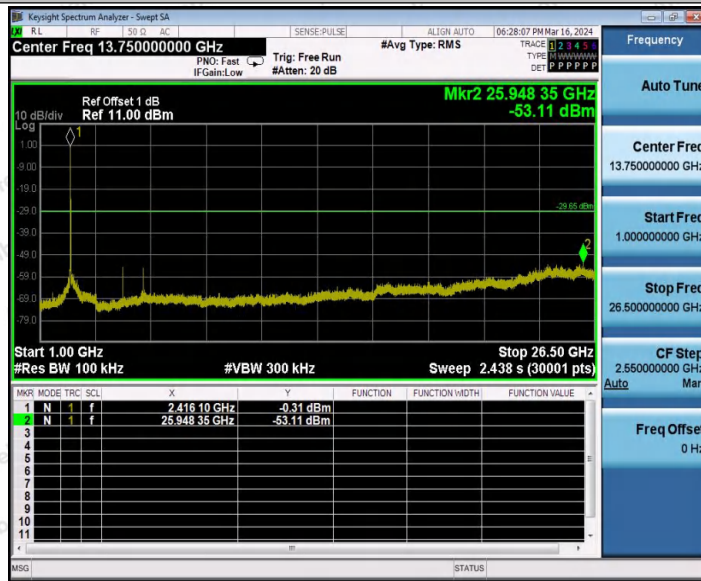
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

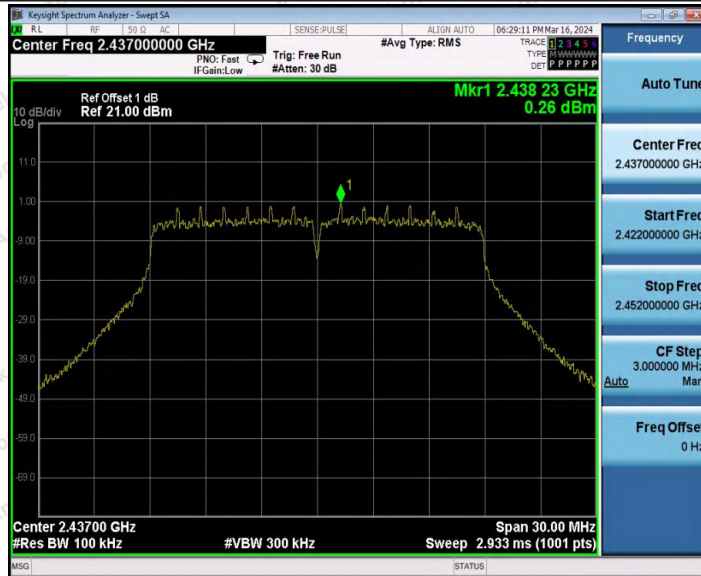
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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

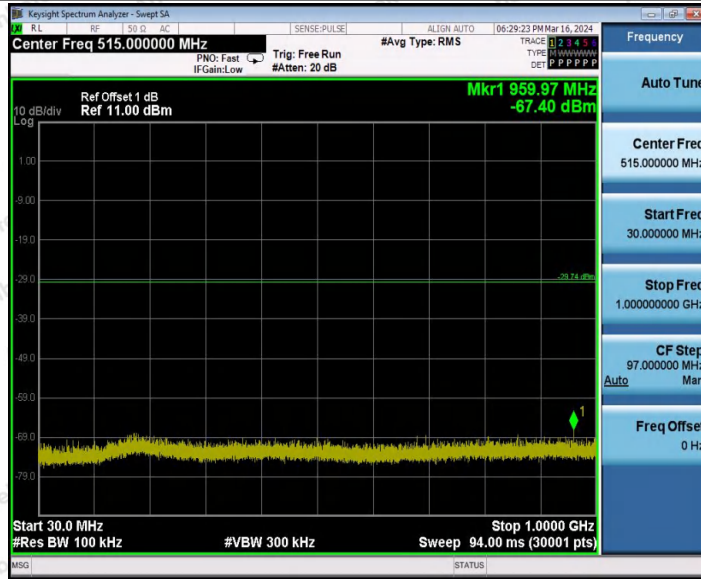
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

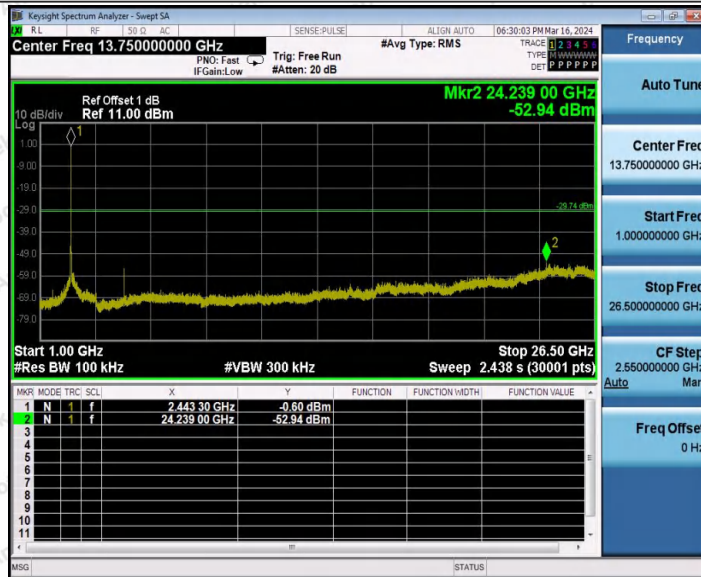


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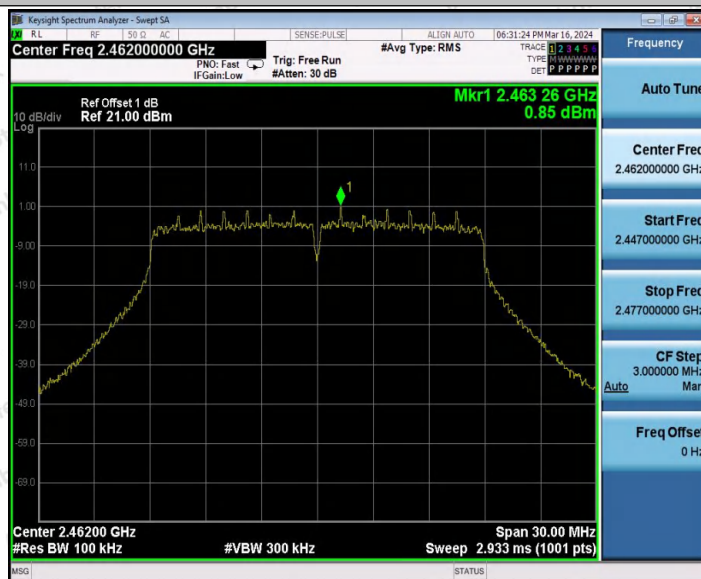




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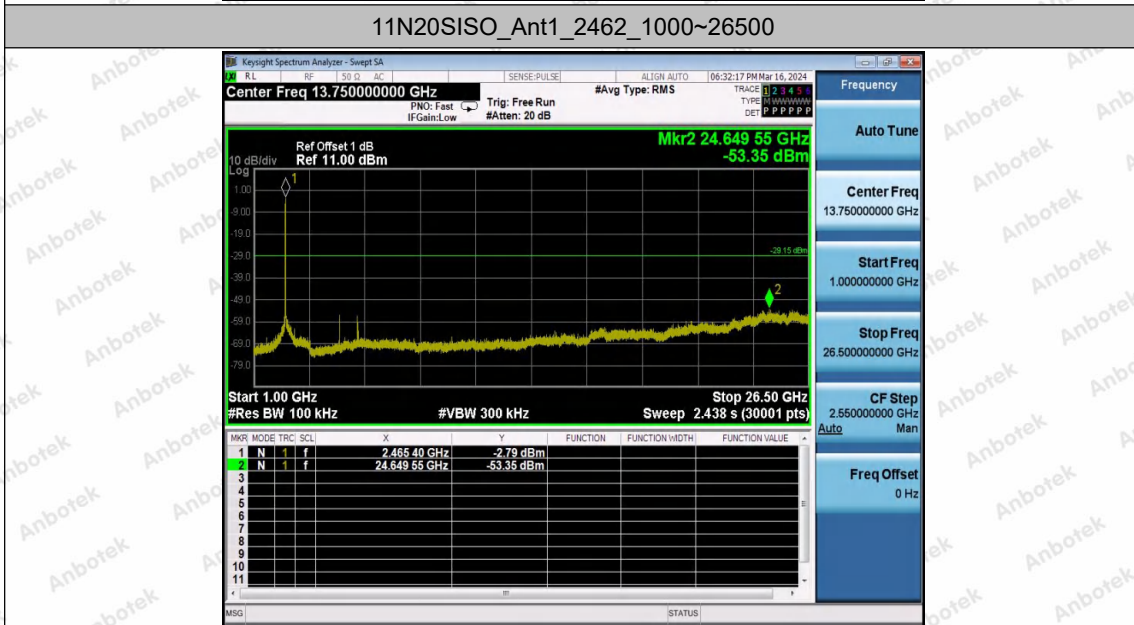
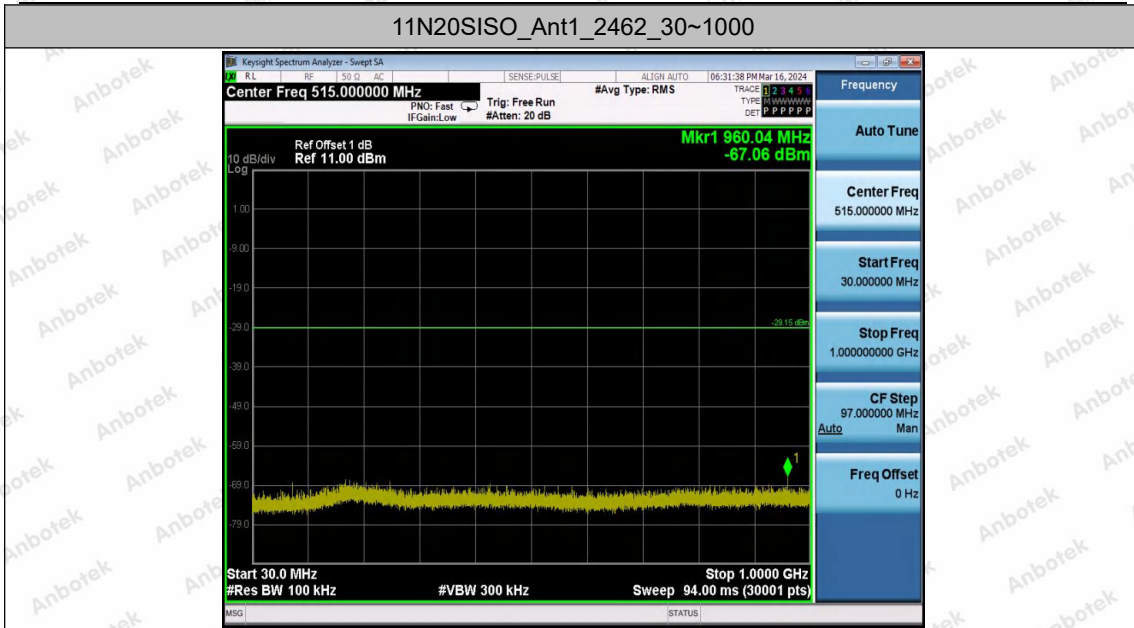


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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.41	12.54	98.96	0.05
		2437	12.42	12.55	98.96	0.05
		2462	12.43	12.56	98.96	0.05
11G	Ant1	2412	2.06	2.19	94.06	0.27
		2437	2.06	2.19	94.06	0.27
		2462	2.06	2.19	94.06	0.27
11N20SISO	Ant1	2412	1.92	2.05	93.66	0.28
		2437	1.92	2.05	93.66	0.28
		2462	1.92	2.05	93.66	0.28

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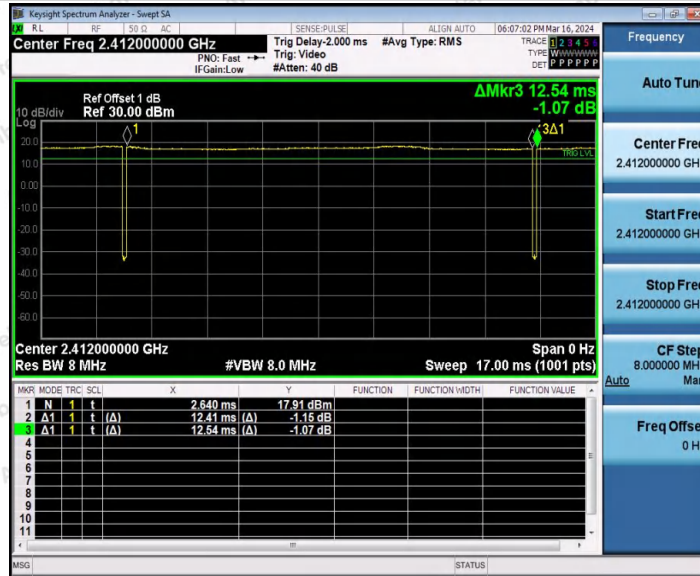


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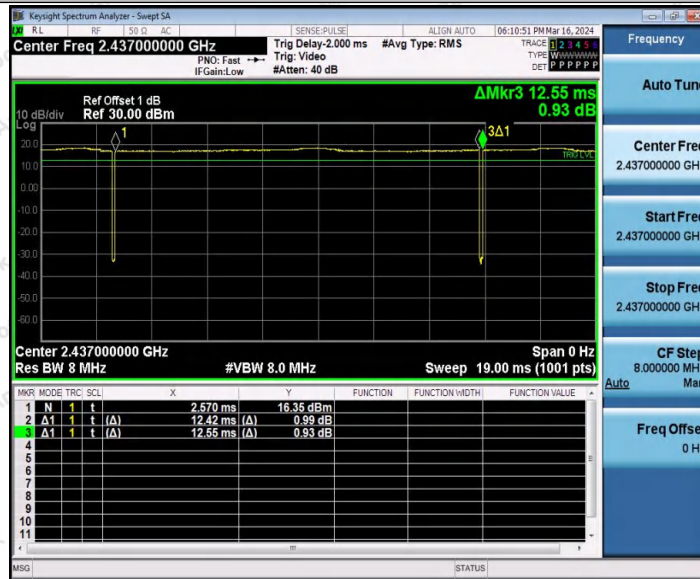


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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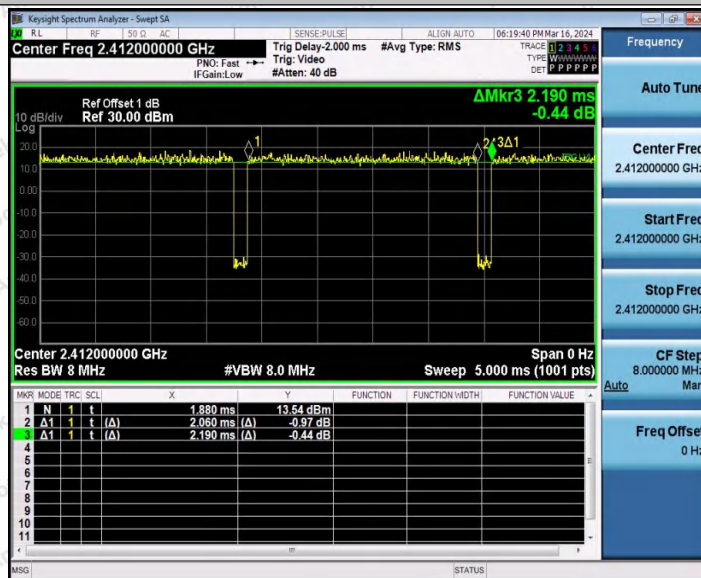
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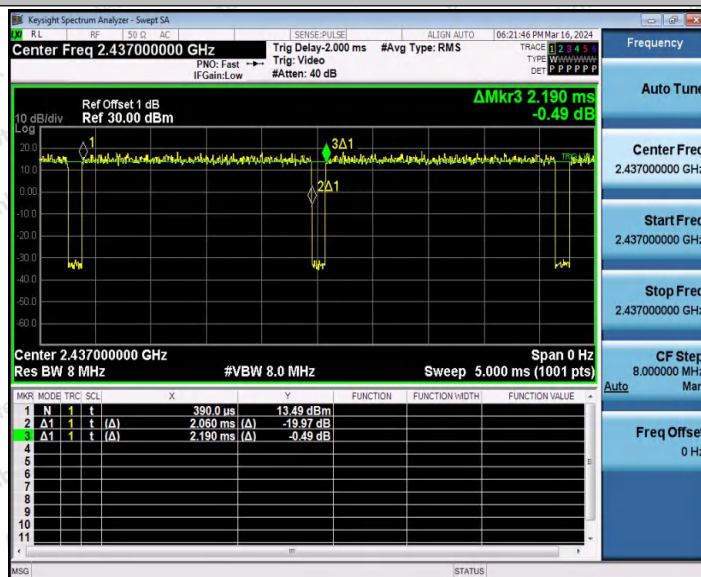




11G_Ant1_2412



11G_Ant1_2437

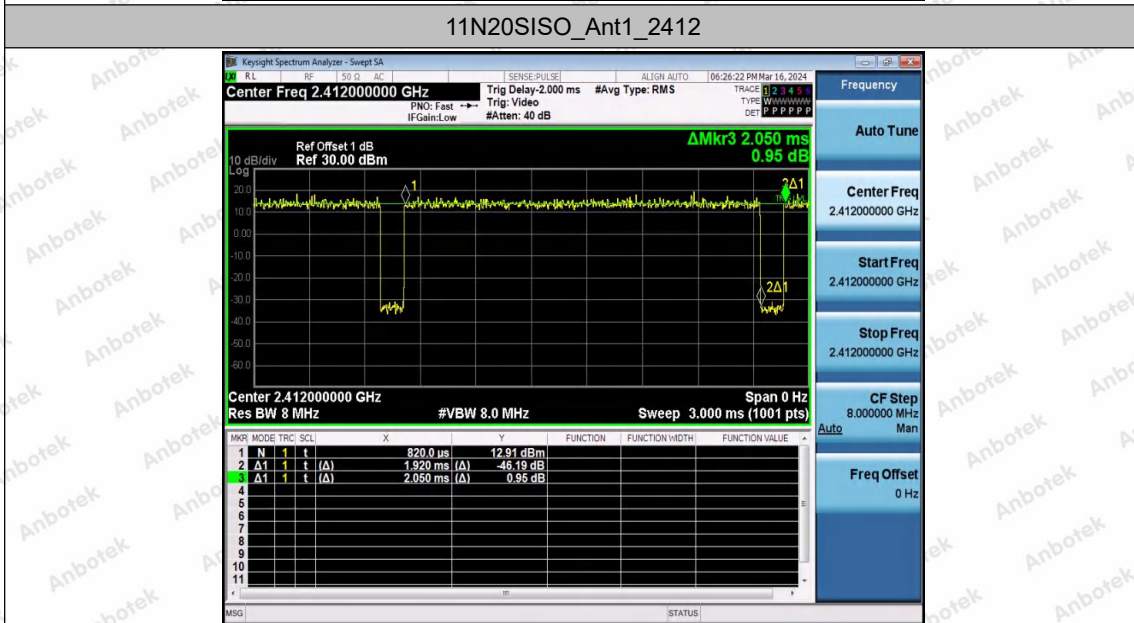
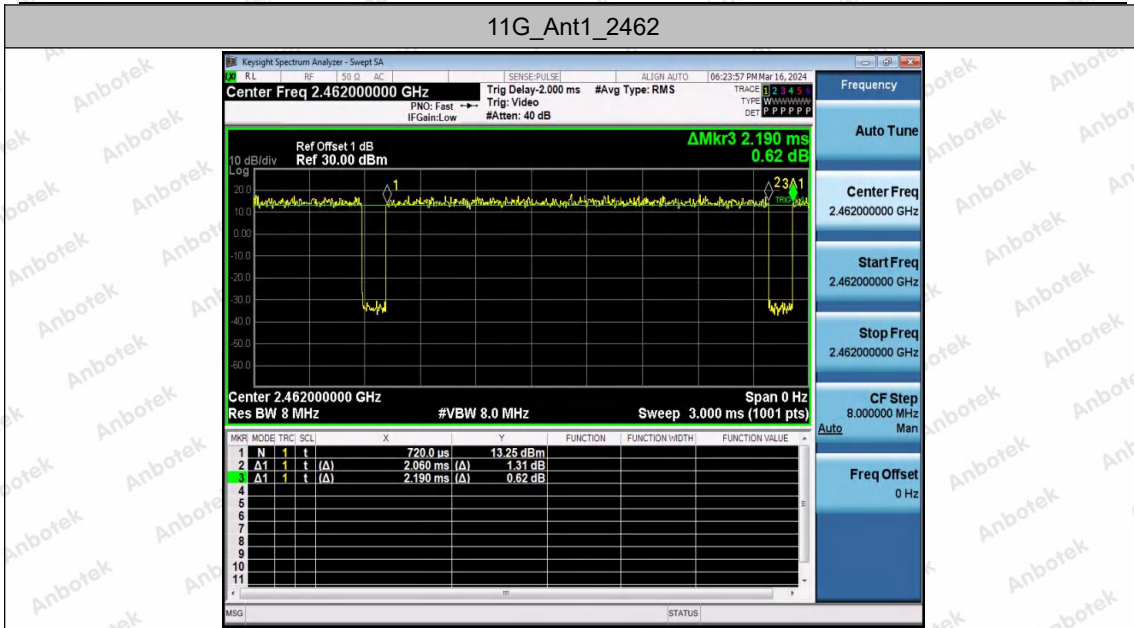


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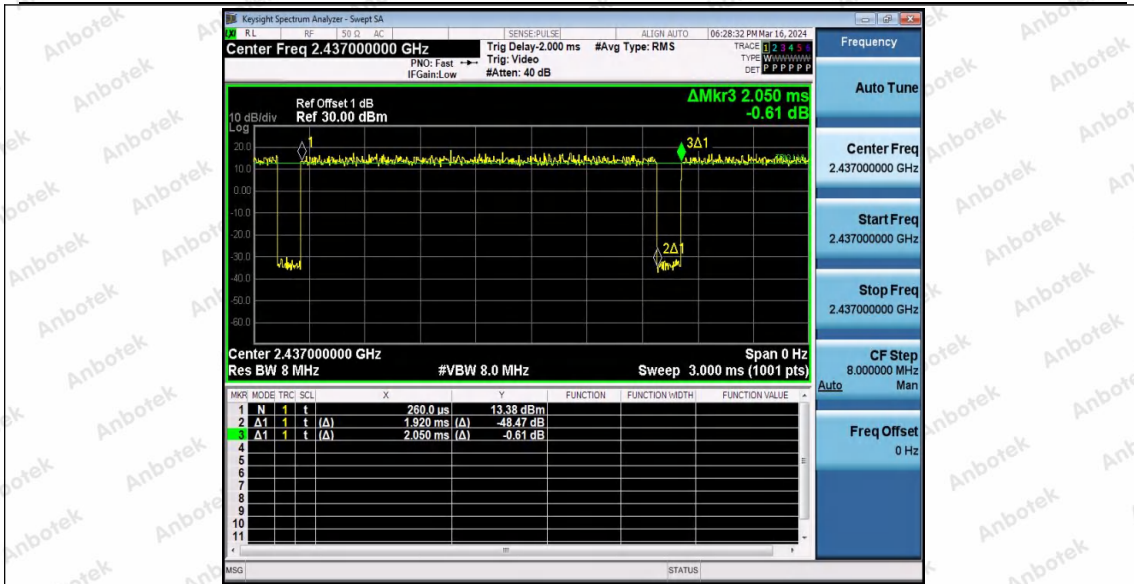


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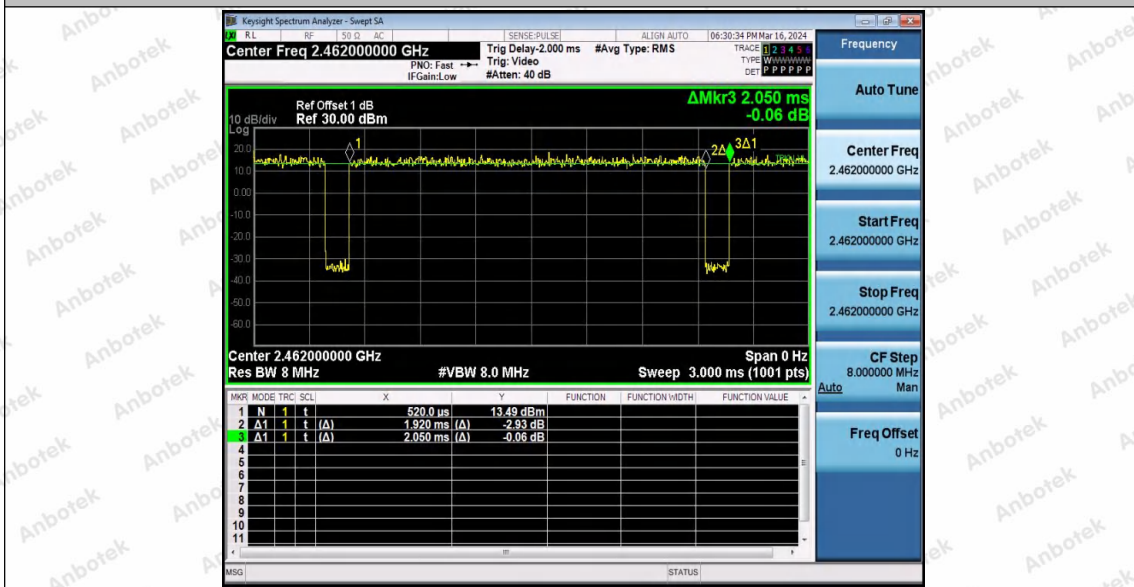
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11N20SISO_Ant1_2462



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