

Appendix Test Data

Report No.:	18220WC40007002	Test Sample No.:	1-2-2
Start Test Date:	2024.1.18	Finish Test Date:	2024.1.19
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.5℃	Relative Humidity:	46%
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	9.080	2407.480	2416.560	0.5	PASS
		2437	9.560	2432.480	2442.040	0.5	PASS
		2462	9.080	2457.480	2466.560	0.5	PASS
11G	Ant1	2412	15.360	2404.440	2419.800	0.5	PASS
		2437	15.120	2429.440	2444.560	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	16.080	2404.440	2420.520	0.5	PASS
		2437	15.760	2429.760	2445.520	0.5	PASS
		2462	14.960	2454.560	2469.520	0.5	PASS
11N40SISO	Ant1	2422	35.120	2404.480	2439.600	0.5	PASS
		2437	34.160	2419.480	2453.640	0.5	PASS
		2452	35.040	2434.560	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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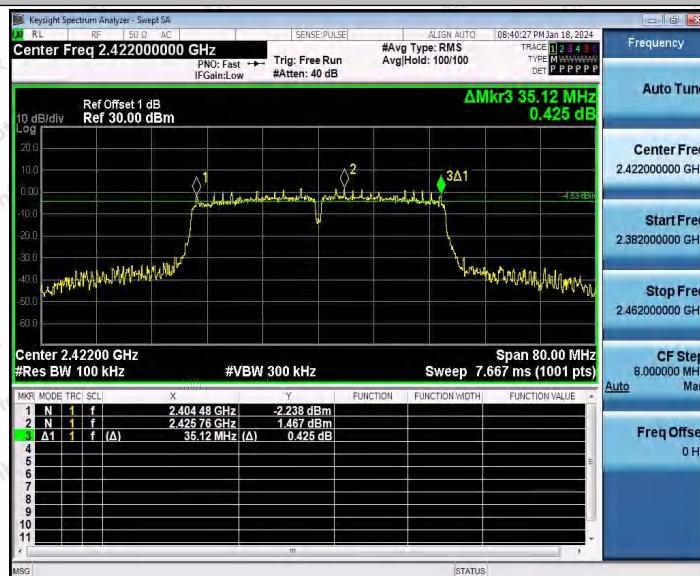




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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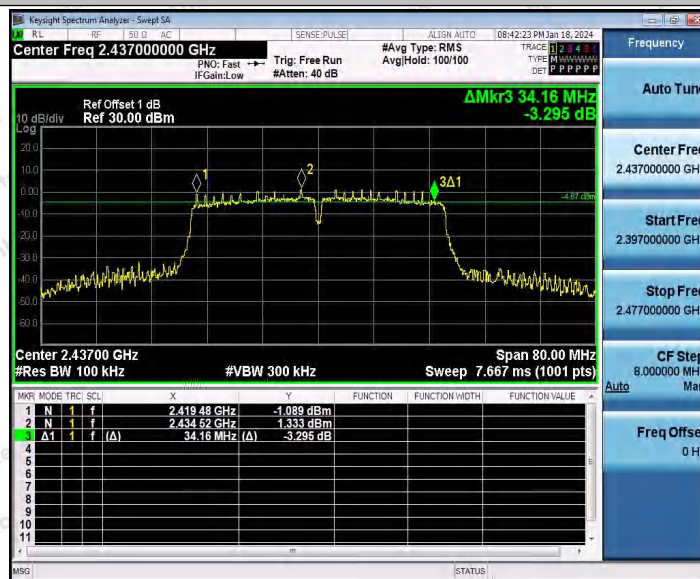
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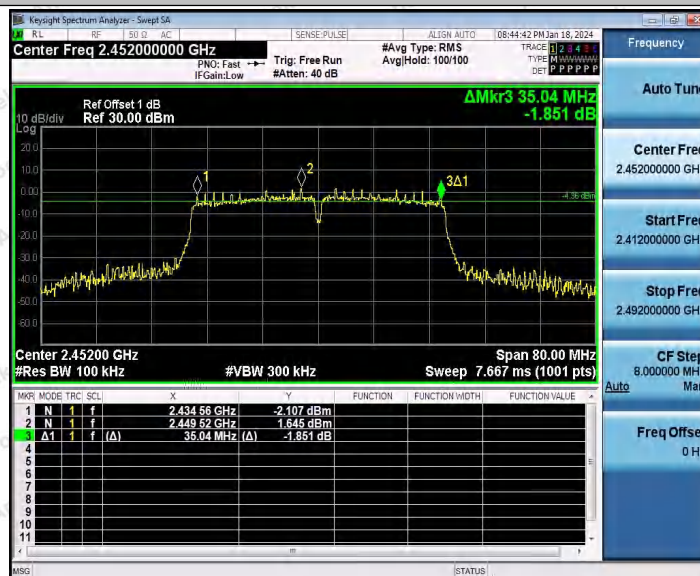
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.515	2405.8115	2418.3265	---	---
		2437	12.593	2430.7280	2443.3210	---	---
		2462	12.639	2455.6881	2468.3271	---	---
11G	Ant1	2412	16.809	2403.6568	2420.4658	---	---
		2437	16.905	2428.5680	2445.4730	---	---
		2462	17.109	2453.4865	2470.5955	---	---
11N20SISO	Ant1	2412	17.712	2403.1965	2420.9085	---	---
		2437	17.741	2428.1992	2445.9402	---	---
		2462	17.758	2453.1588	2470.9168	---	---
11N40SISO	Ant1	2422	36.003	2404.1196	2440.1226	---	---
		2437	35.998	2419.1686	2455.1666	---	---
		2452	35.999	2434.0616	2470.0606	---	---



Test Graphs



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11G_Ant1_2412



11G_Ant1_2437



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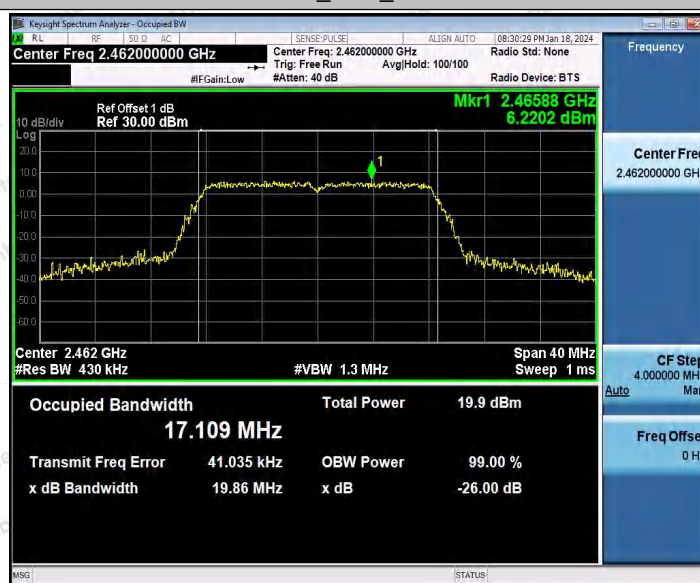
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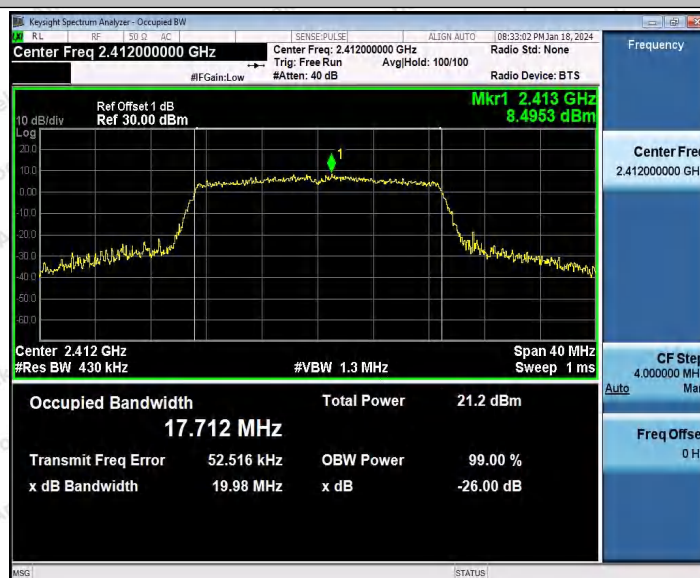
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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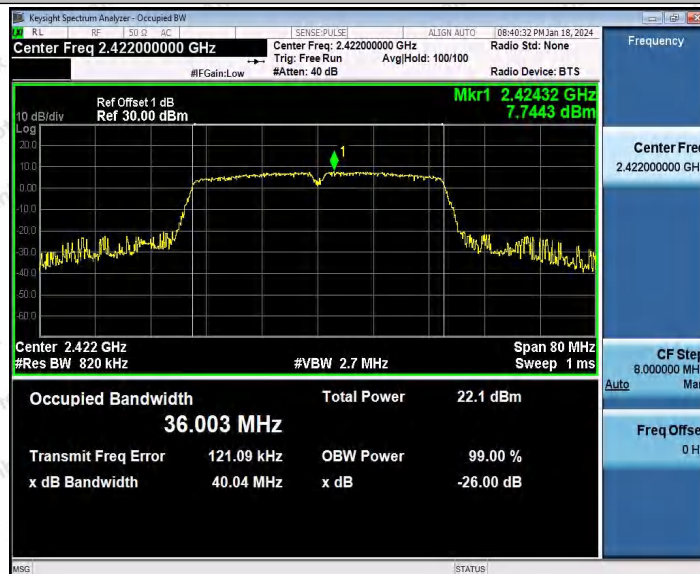




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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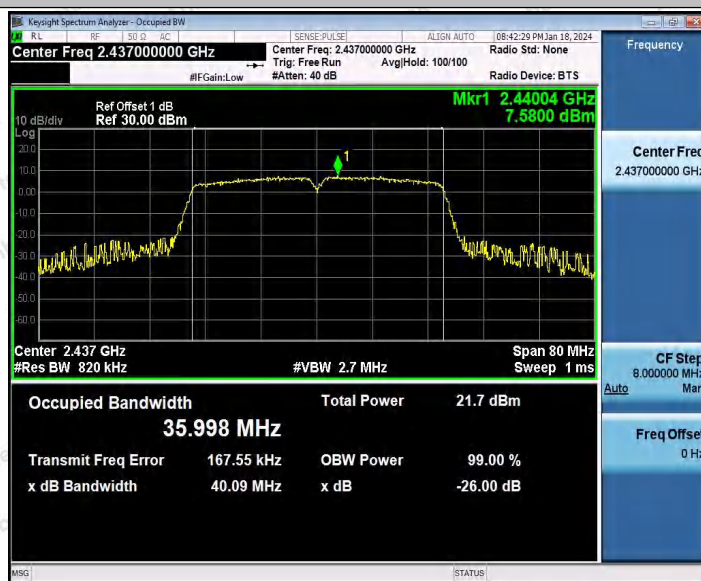
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	12.31	≤30.00
		2437	12.24	≤30.00
		2462	12.20	≤30.00
11G	Ant1	2412	15.05	≤30.00
		2437	14.98	≤30.00
		2462	13.82	≤30.00
11N20SISO	Ant1	2412	15.04	≤30.00
		2437	14.92	≤30.00
		2462	14.74	≤30.00
11N40SISO	Ant1	2422	15.26	≤30.00
		2437	14.85	≤30.00
		2452	14.96	≤30.00

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





11G_Ant1_2412



11G_Ant1_2437

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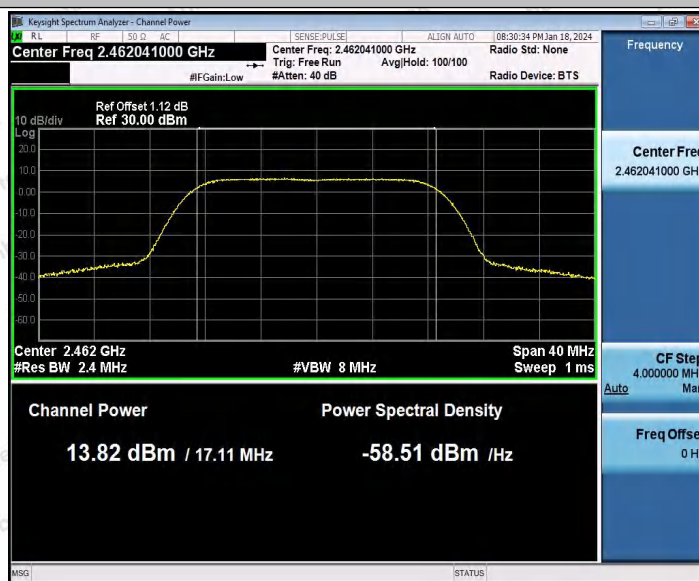
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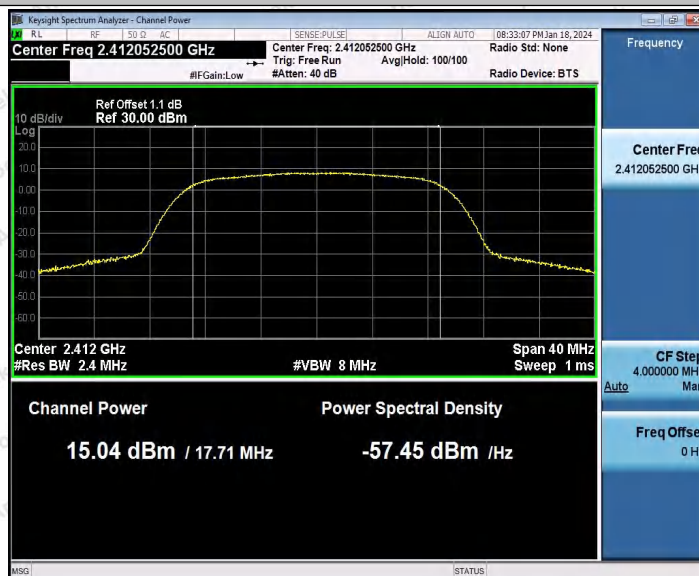
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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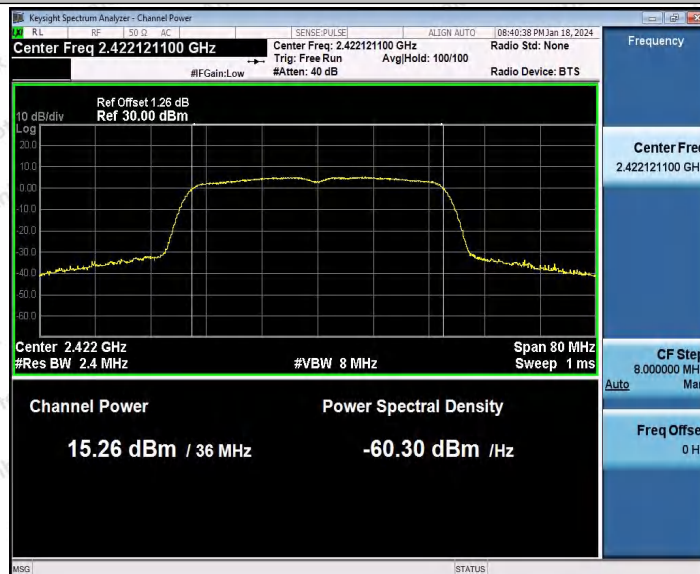




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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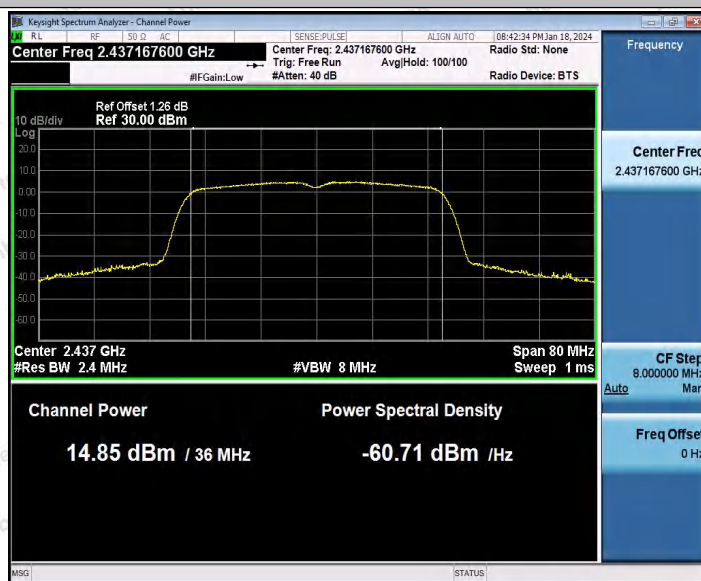
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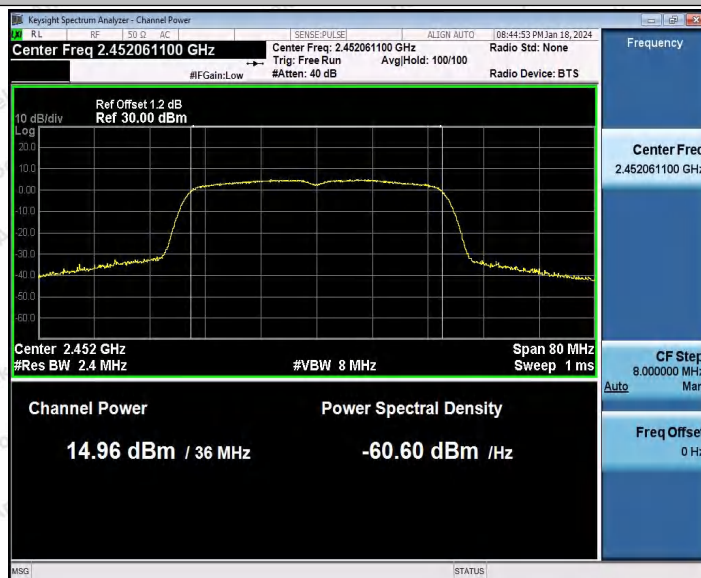
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-9.60	-19.60	≤8.00	PASS
		2437	-9.65	-19.65	≤8.00	PASS
		2462	-9.70	-19.70	≤8.00	PASS
11G	Ant1	2412	-8.06	-18.06	≤8.00	PASS
		2437	-8.40	-18.40	≤8.00	PASS
		2462	-10.67	-20.67	≤8.00	PASS
11N20SISO	Ant1	2412	-8.25	-18.25	≤8.00	PASS
		2437	-8.71	-18.71	≤8.00	PASS
		2462	-8.76	-18.76	≤8.00	PASS
11N40SISO	Ant1	2422	-11.16	-21.16	≤8.00	PASS
		2437	-11.72	-21.72	≤8.00	PASS
		2452	-11.49	-21.49	≤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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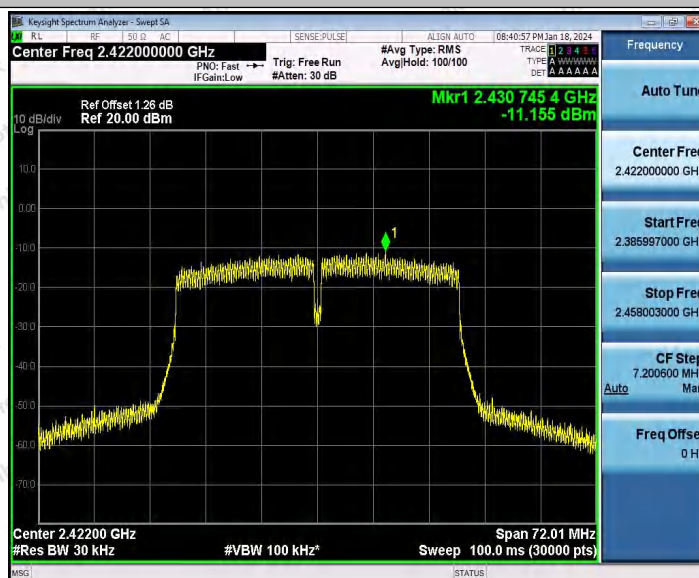




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422

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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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Appendix E: Band edge measurements

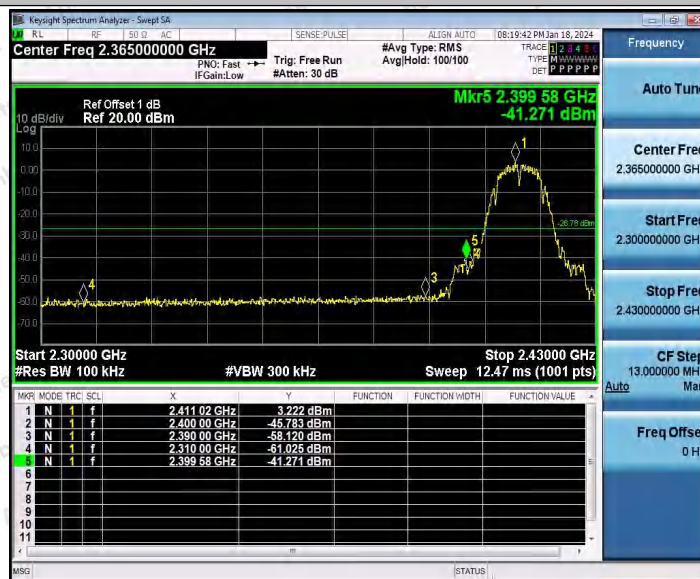
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.22	-41.27	≤-26.78	PASS
		High	2462	3.46	-48.78	≤-26.54	PASS
11G	Ant1	Low	2412	4.26	-32.87	≤-25.74	PASS
		High	2462	2.16	-47.88	≤-27.84	PASS
11N20SISO	Ant1	Low	2412	5.04	-30.86	≤-24.97	PASS
		High	2462	4.78	-47.37	≤-25.22	PASS
11N40SISO	Ant1	Low	2422	1.18	-32.49	≤-28.82	PASS
		High	2452	1.28	-38.69	≤-28.72	PASS



Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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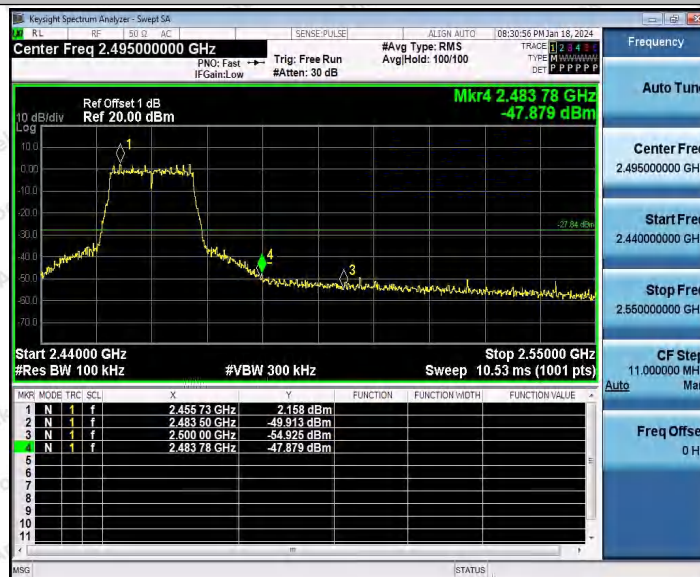
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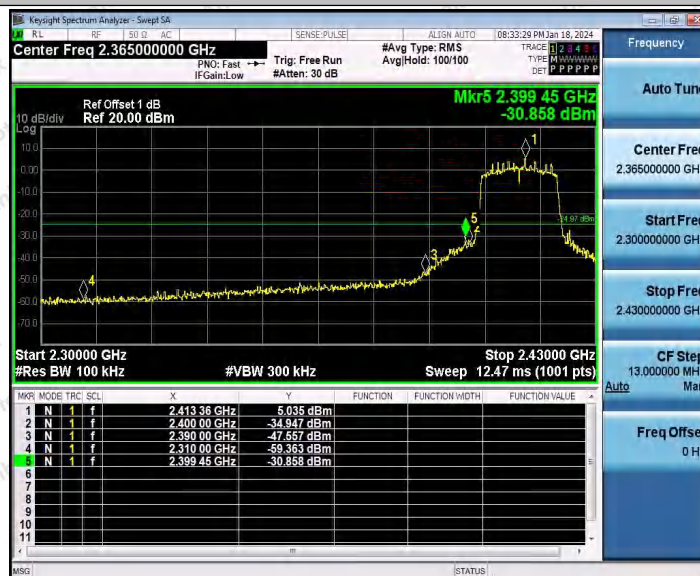




11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



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11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

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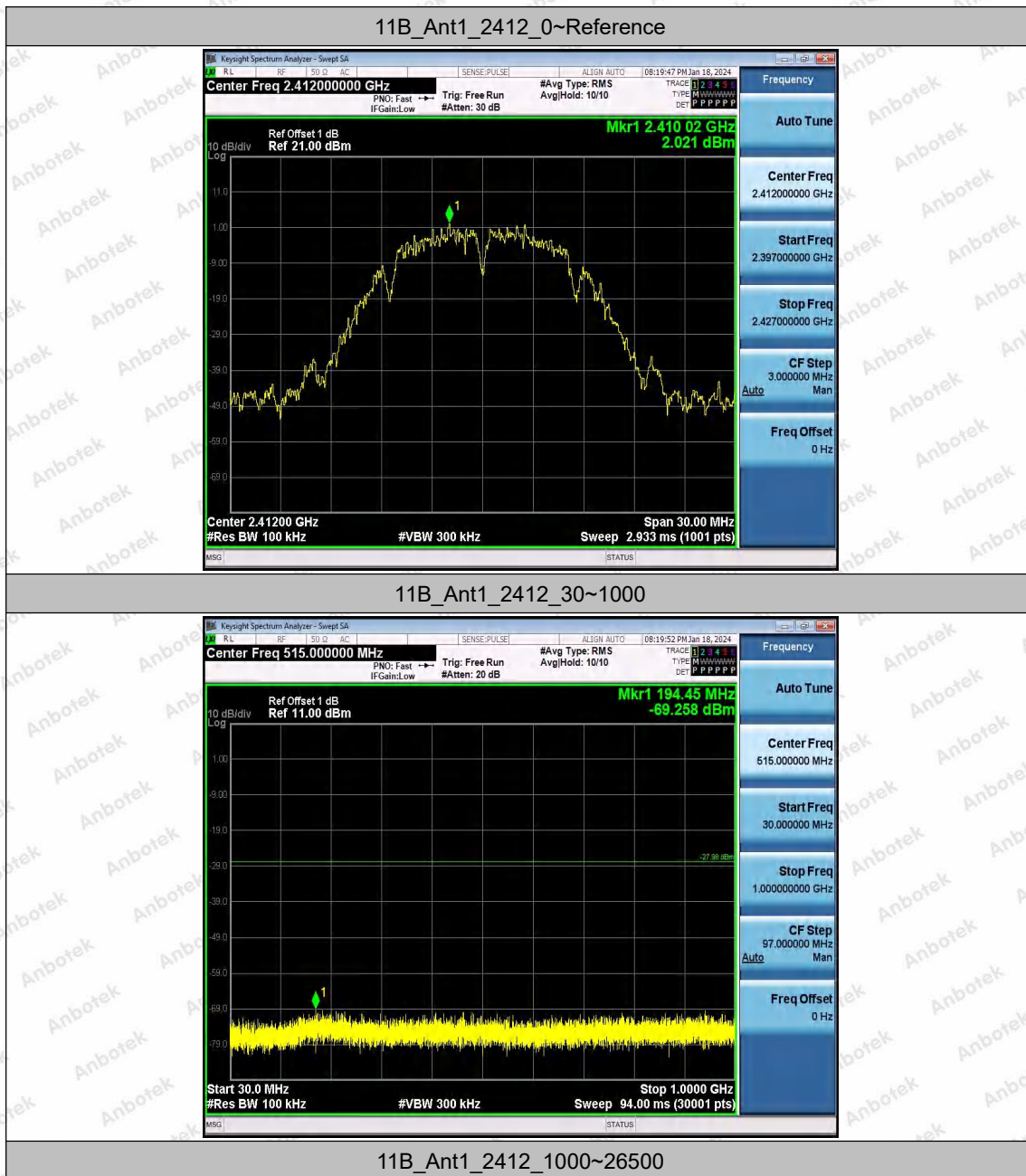
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.02	2.02	---	PASS
			30~1000	2.02	-69.26	≤-27.98	PASS
			1000~26500	2.02	-52.6	≤-27.98	PASS
		2437	Reference	3.43	3.43	---	PASS
			30~1000	3.43	-69.21	≤-26.57	PASS
			1000~26500	3.43	-53.82	≤-26.57	PASS
		2462	Reference	1.88	1.88	---	PASS
			30~1000	1.88	-69.71	≤-28.12	PASS
			1000~26500	1.88	-53.65	≤-28.12	PASS
11G	Ant1	2412	Reference	1.50	1.50	---	PASS
			30~1000	1.50	-68.45	≤-28.5	PASS
			1000~26500	1.50	-53.52	≤-28.5	PASS
		2437	Reference	2.24	2.24	---	PASS
			30~1000	2.24	-69.15	≤-27.76	PASS
			1000~26500	2.24	-53.68	≤-27.76	PASS
		2462	Reference	2.21	2.21	---	PASS
			30~1000	2.21	-68.97	≤-27.79	PASS
			1000~26500	2.21	-53.63	≤-27.79	PASS
11N20SISO	Ant1	2412	Reference	1.84	1.84	---	PASS
			30~1000	1.84	-68.66	≤-28.16	PASS
			1000~26500	1.84	-53.4	≤-28.16	PASS
		2437	Reference	5.16	5.16	---	PASS
			30~1000	5.16	-68.38	≤-24.84	PASS
			1000~26500	5.16	-53.53	≤-24.84	PASS
		2462	Reference	3.25	3.25	---	PASS
			30~1000	3.25	-68.84	≤-26.75	PASS
			1000~26500	3.25	-53.65	≤-26.75	PASS
11N40SISO	Ant1	2422	Reference	1.03	1.03	---	PASS
			30~1000	1.03	-67.84	≤-28.97	PASS
			1000~26500	1.03	-53.43	≤-28.97	PASS
		2437	Reference	1.41	1.41	---	PASS
			30~1000	1.41	-68.75	≤-28.59	PASS
			1000~26500	1.41	-53.1	≤-28.59	PASS
		2452	Reference	0.35	0.35	---	PASS
			30~1000	0.35	-69.01	≤-29.65	PASS
			1000~26500	0.35	-53.42	≤-29.65	PASS



Test Graphs



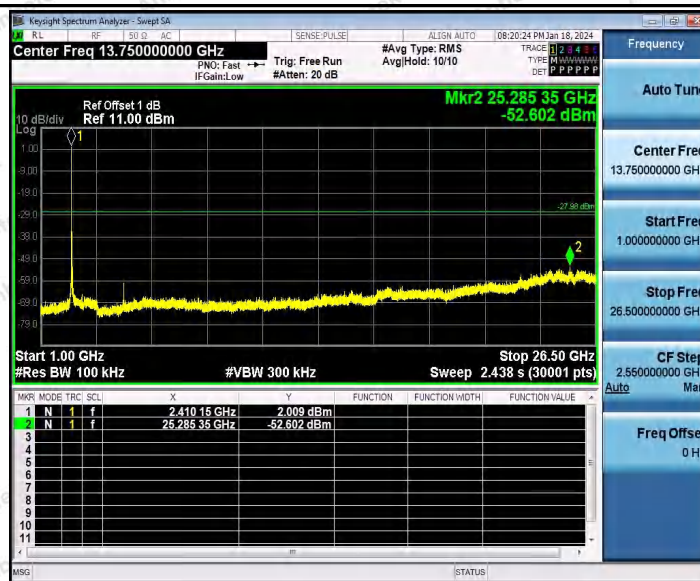
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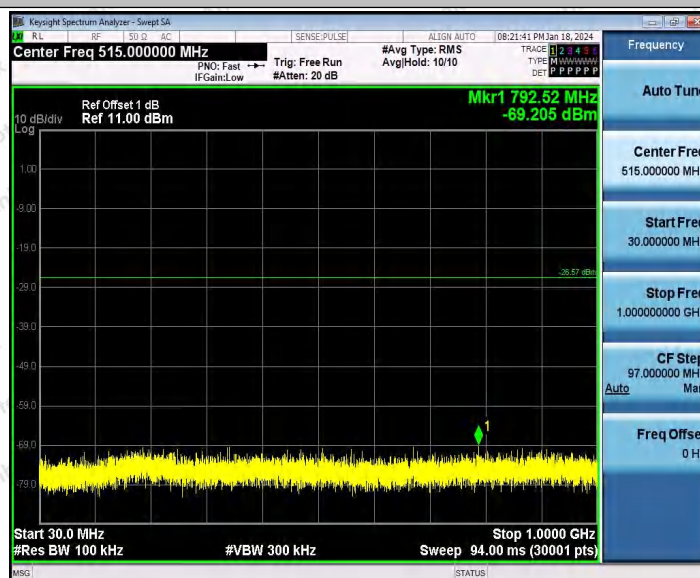




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



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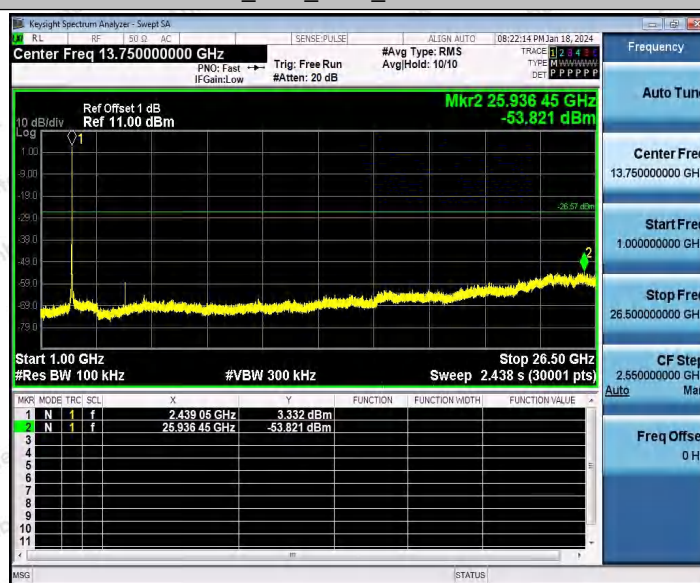
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000

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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



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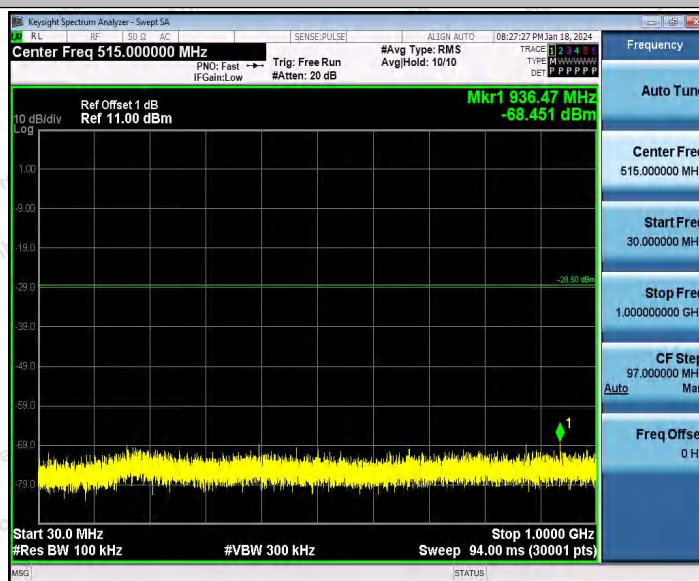
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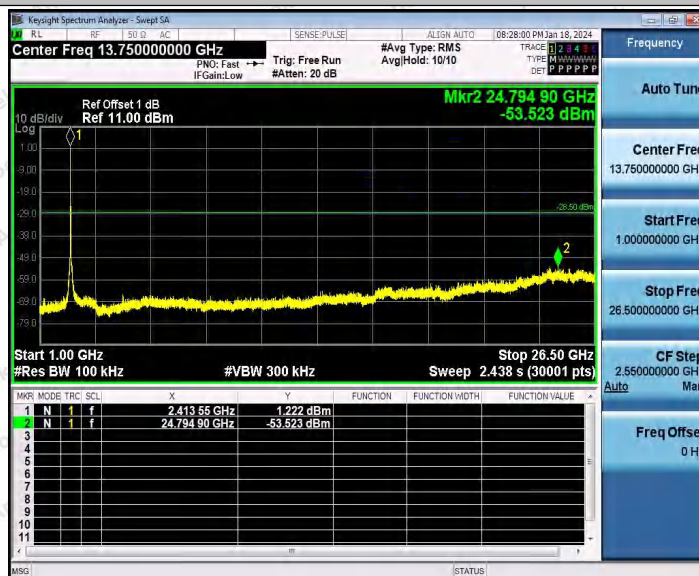
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500

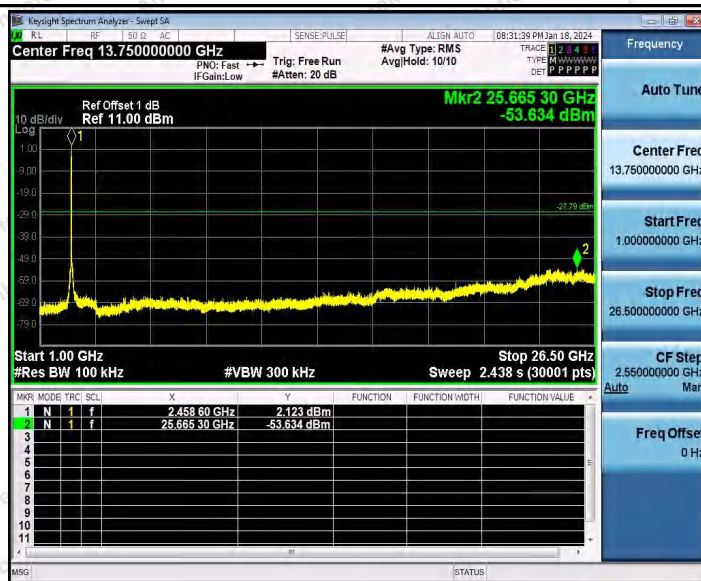
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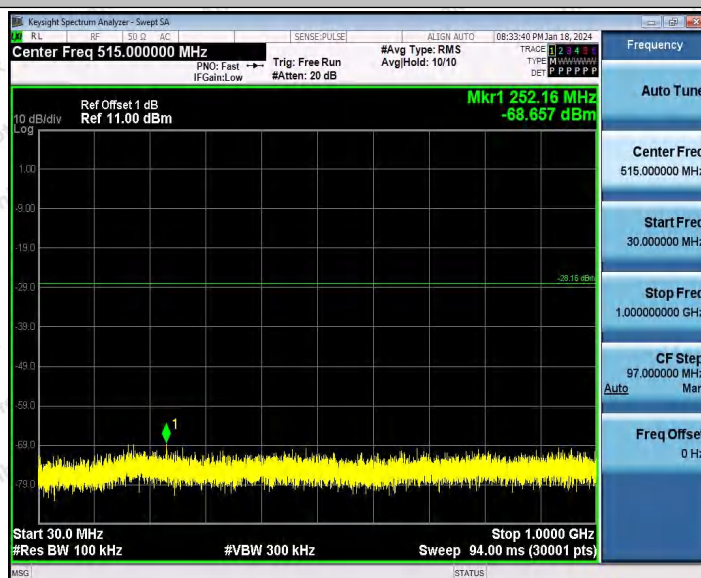




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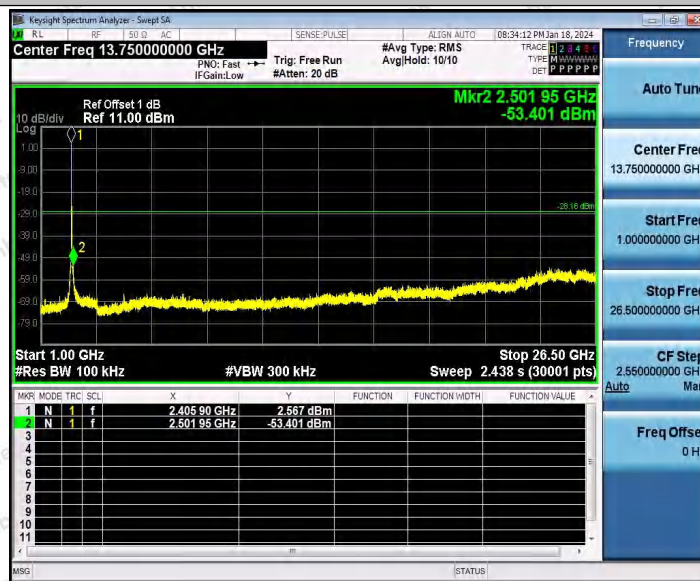
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11N20SISO_Ant1_2437_0~Reference



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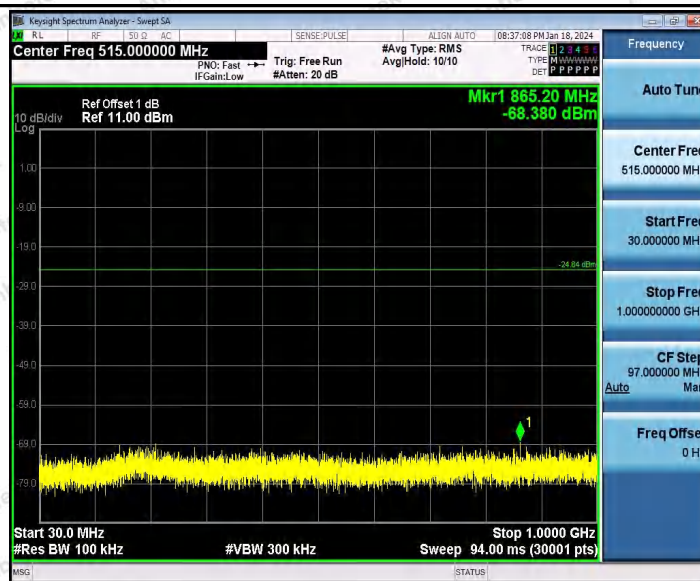
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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



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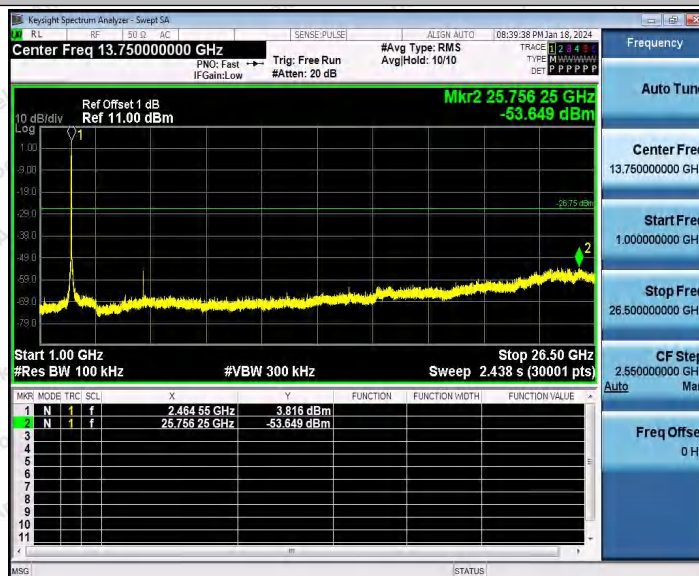
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11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_0~Reference

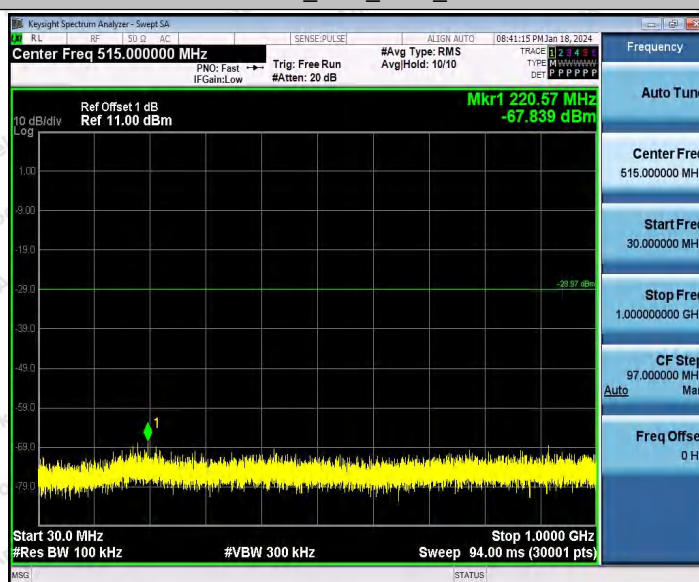
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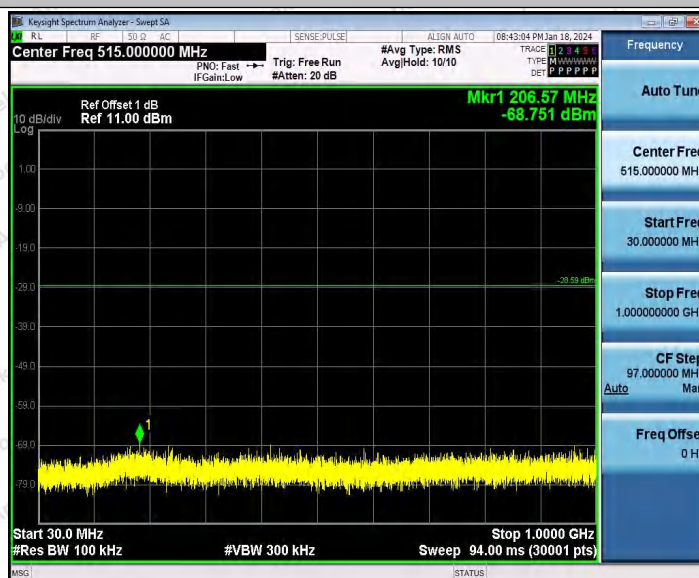
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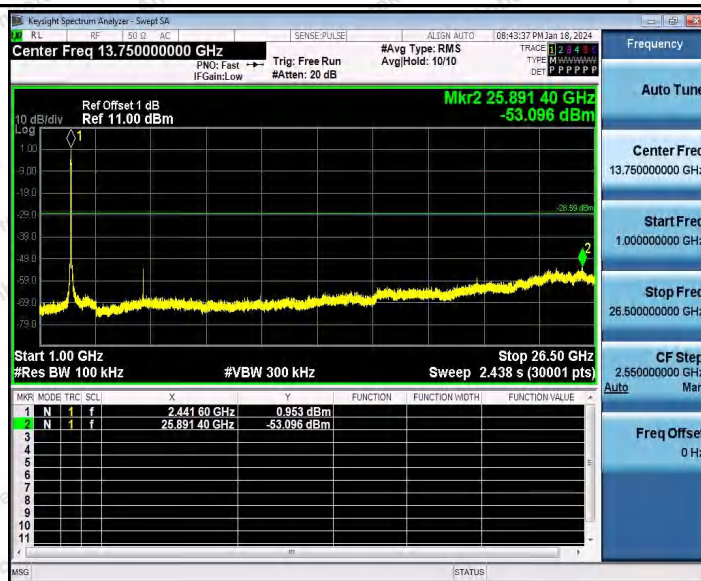
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11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



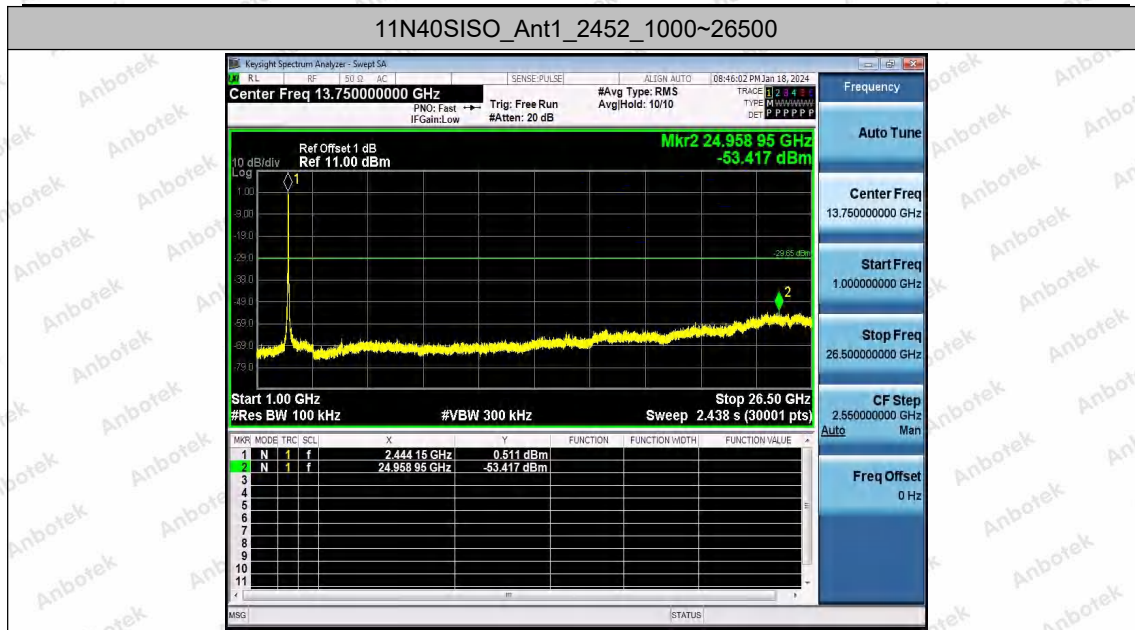
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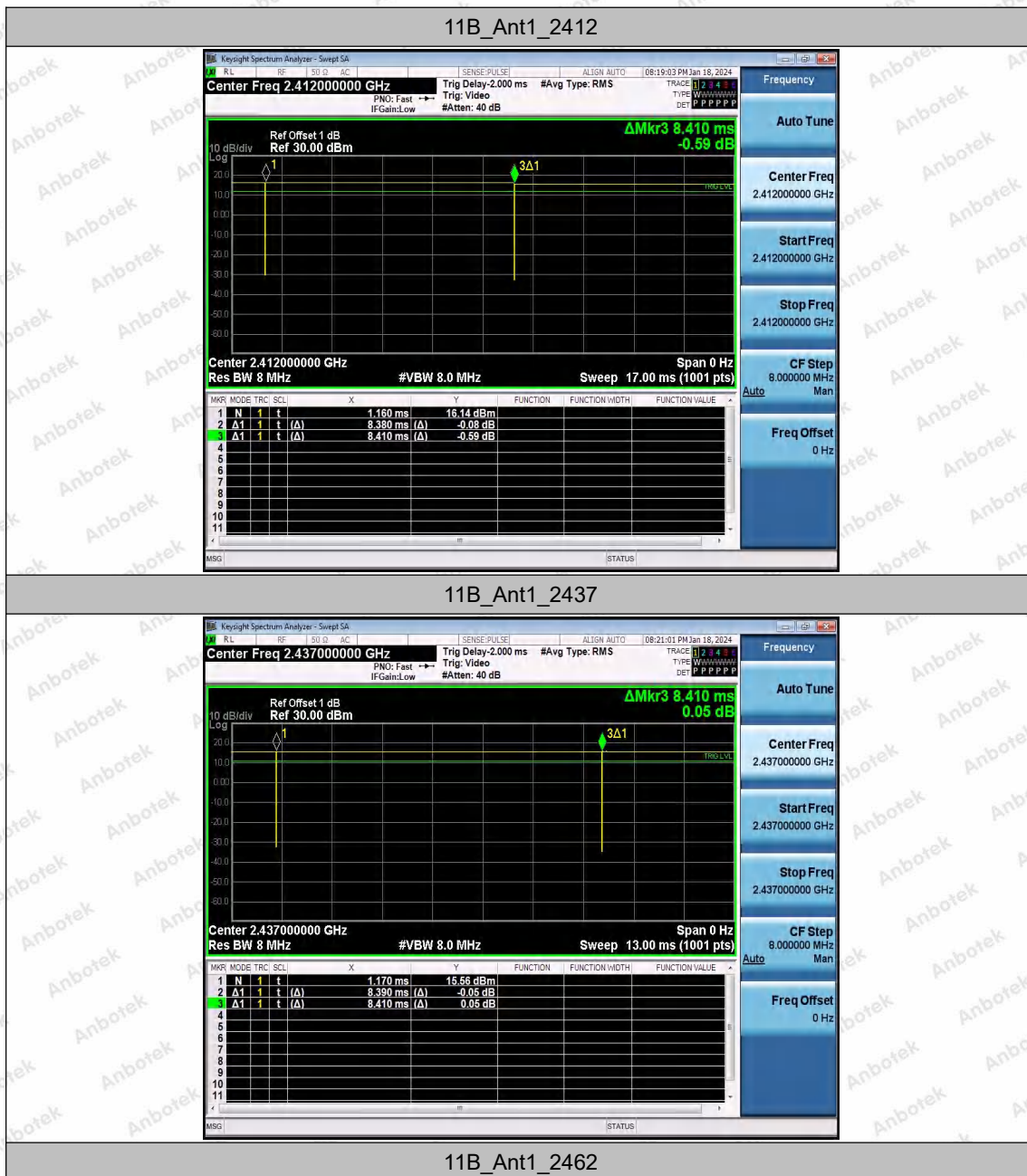
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.38	8.41	99.64	0.02
		2437	8.39	8.41	99.76	0.01
		2462	8.38	8.41	99.64	0.02
11G	Ant1	2412	1.39	1.42	97.89	0.09
		2437	1.39	1.42	97.89	0.09
		2462	1.39	1.43	97.20	0.12
11N20SISO	Ant1	2412	1.31	1.34	97.76	0.10
		2437	1.30	1.33	97.74	0.10
		2462	1.30	1.34	97.01	0.13
11N40SISO	Ant1	2422	0.65	0.69	94.20	0.26
		2437	0.64	0.68	94.12	0.26
		2452	0.65	0.68	95.59	0.20



Test Graphs



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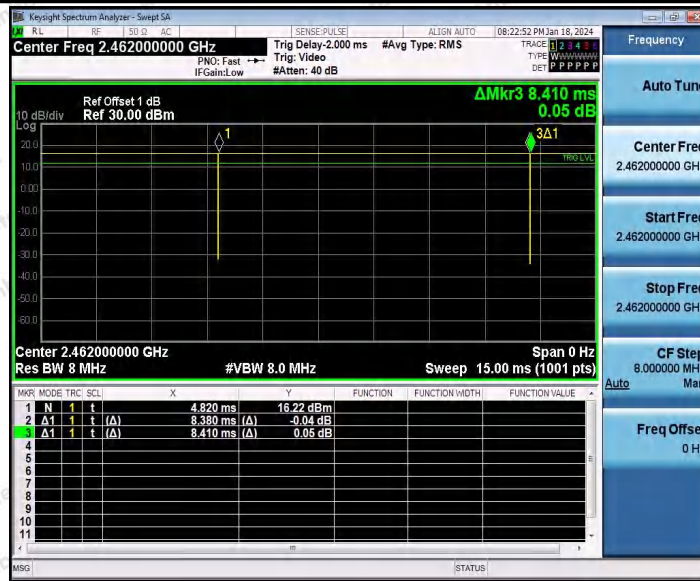


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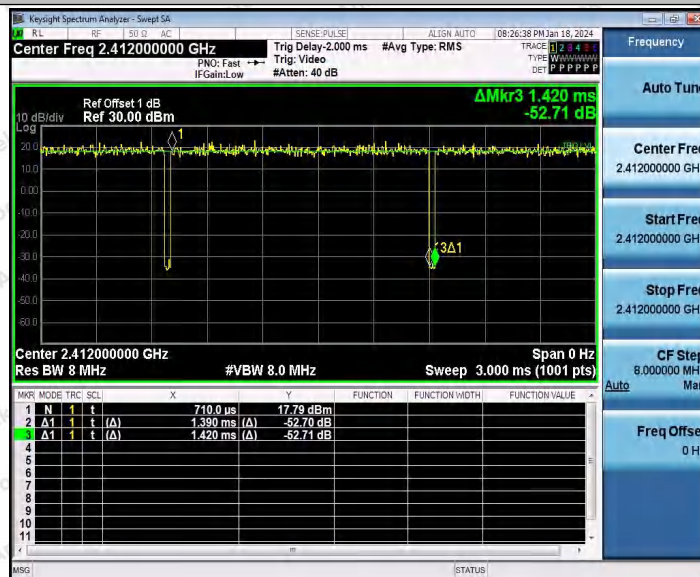
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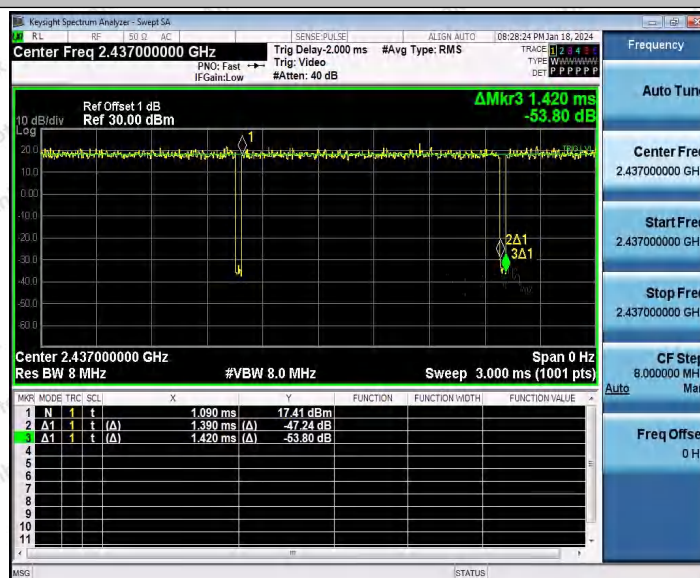




11G_Ant1_2412



11G_Ant1_2437



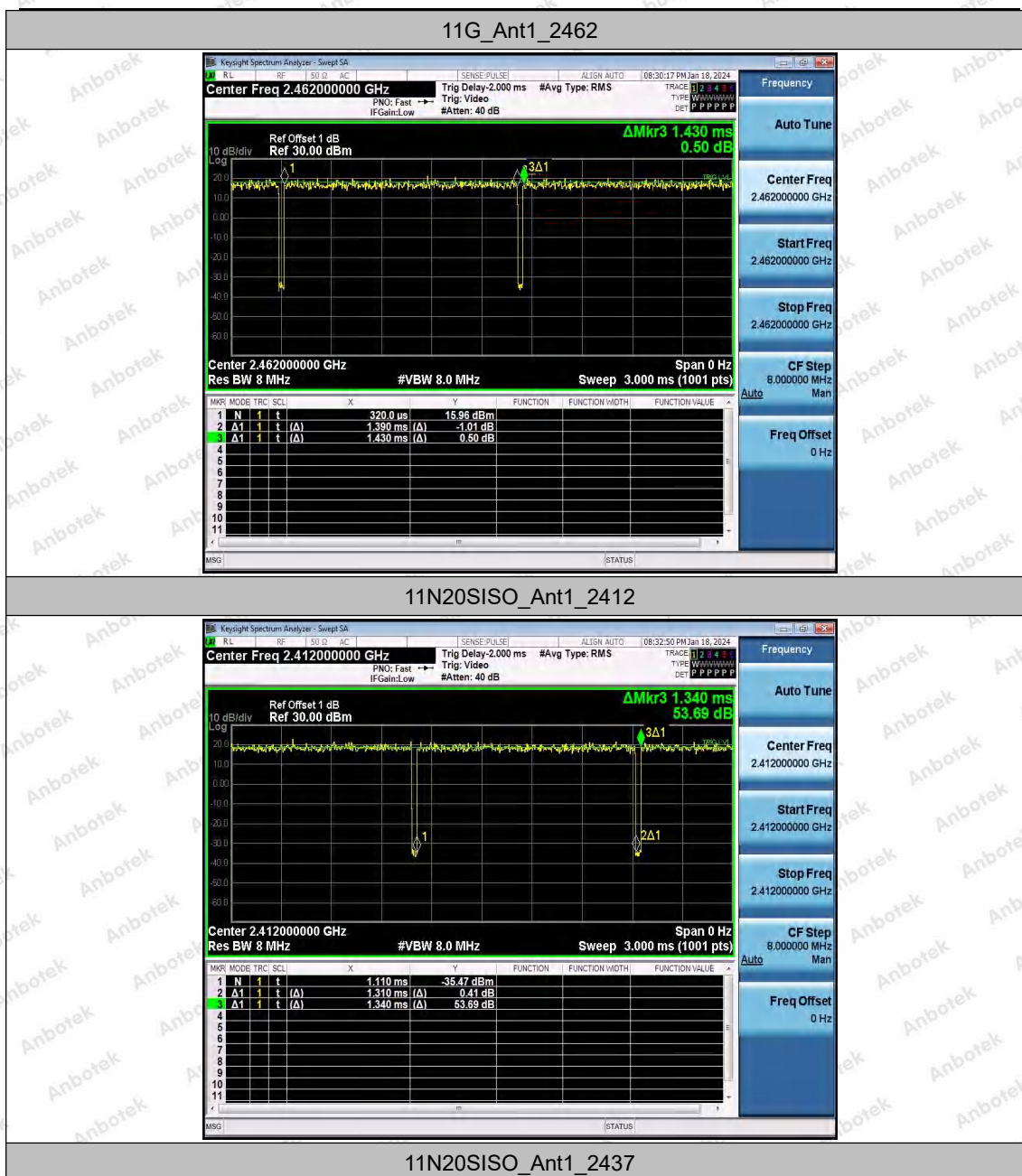
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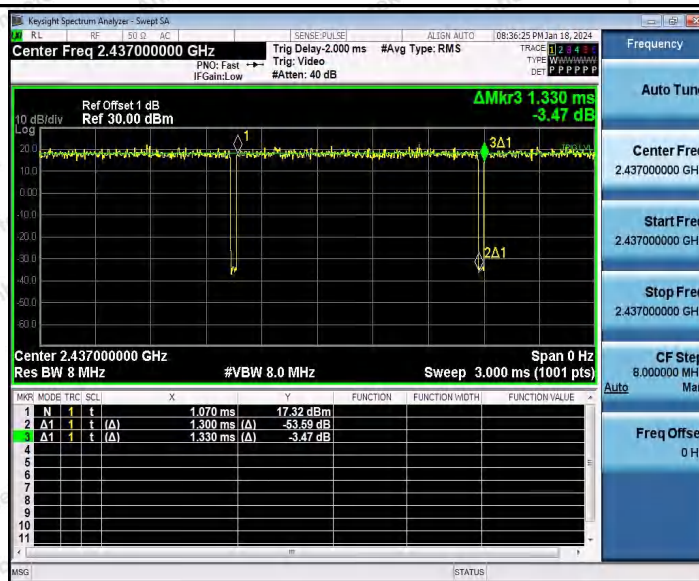
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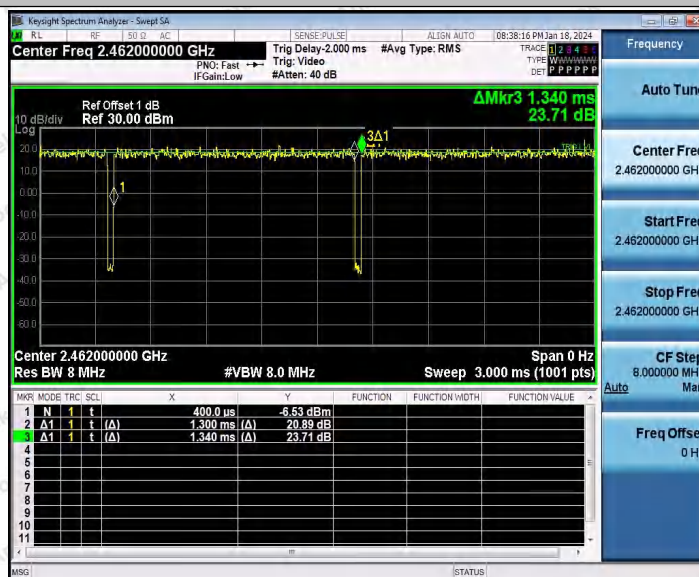
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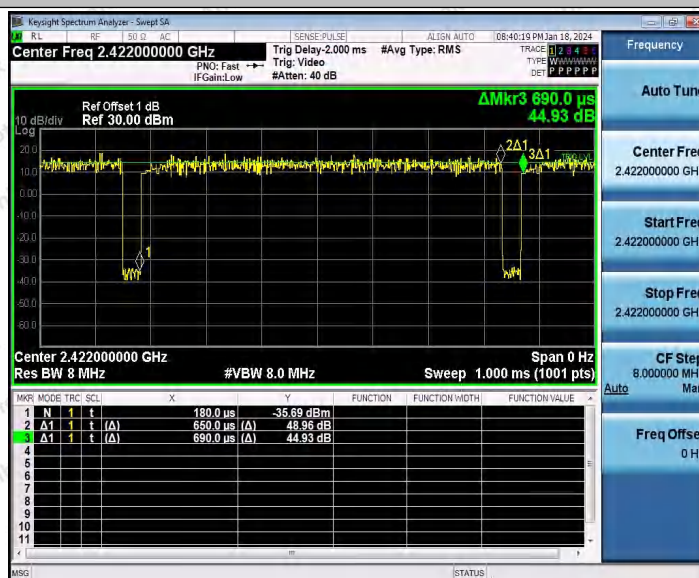




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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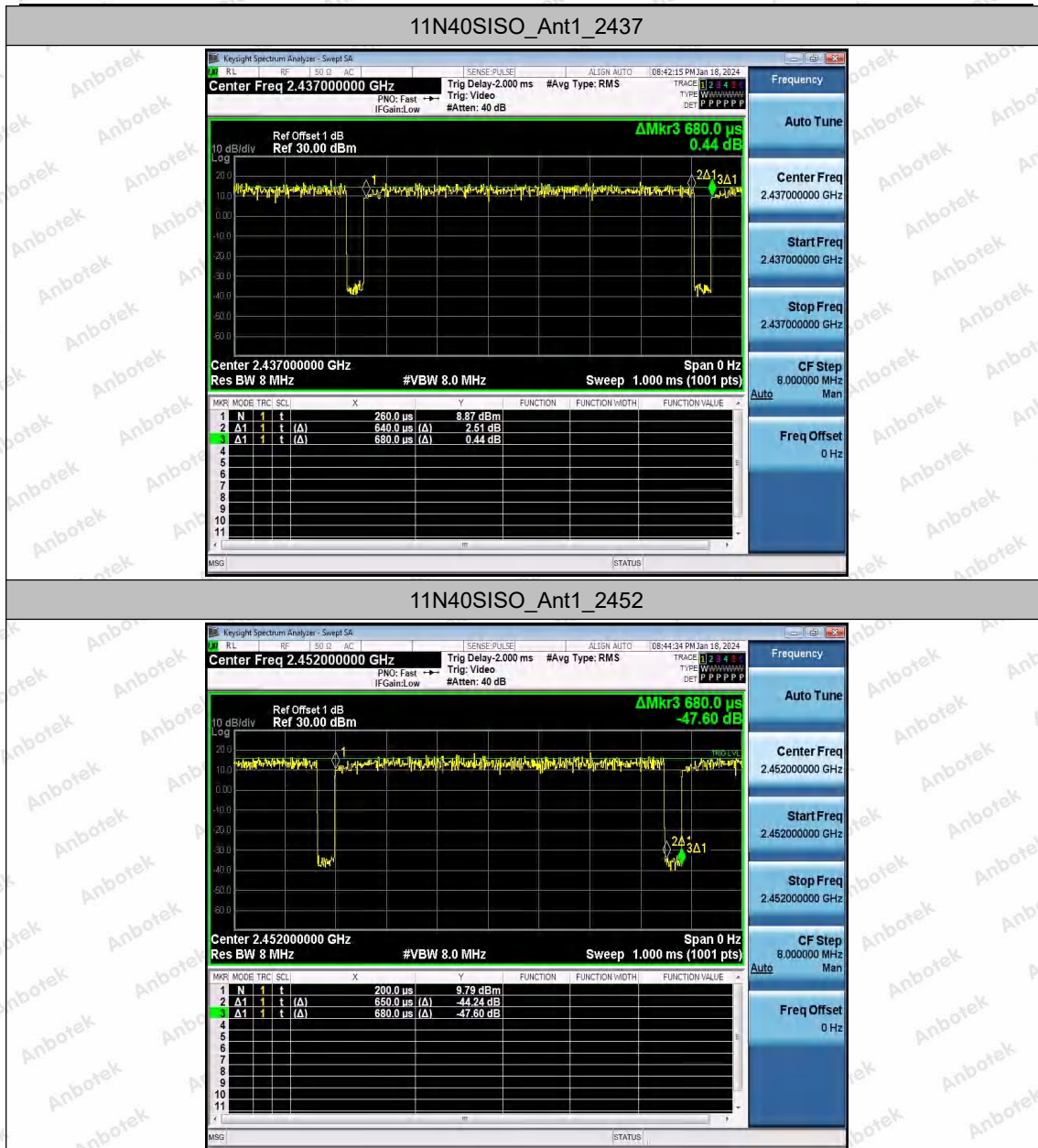


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