

Appendix Test Data

Report No.:	18220WC40009802	Test Sample No.:	1-2-2
Start Test Date:	2024.2.1	Finish Test Date:	2024.2.1
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.3℃	Relative Humidity:	48%
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	7.600	2407.960	2415.560	0.5	PASS
		2437	8.080	2432.960	2441.040	0.5	PASS
		2462	8.080	2457.960	2466.040	0.5	PASS
11G	Ant1	2412	16.440	2403.760	2420.200	0.5	PASS
		2437	16.440	2428.760	2445.200	0.5	PASS
		2462	16.520	2453.720	2470.240	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
		2437	17.640	2428.160	2445.800	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant1	2422	36.080	2403.840	2439.920	0.5	PASS
		2437	36.400	2418.760	2455.160	0.5	PASS
		2452	36.160	2433.840	2470.000	0.5	PASS
11AX20SISO	Ant1	2412	19.080	2402.480	2421.560	0.5	PASS
		2437	19.120	2427.400	2446.520	0.5	PASS
		2462	19.160	2452.400	2471.560	0.5	PASS
11AX40SISO	Ant1	2422	37.680	2403.040	2440.720	0.5	PASS
		2437	38.160	2417.880	2456.040	0.5	PASS
		2452	38.160	2432.880	2471.040	0.5	PASS

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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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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

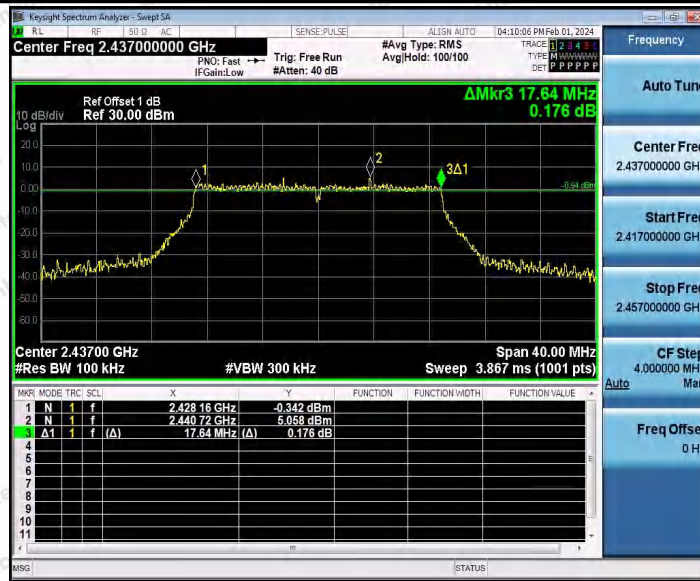
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11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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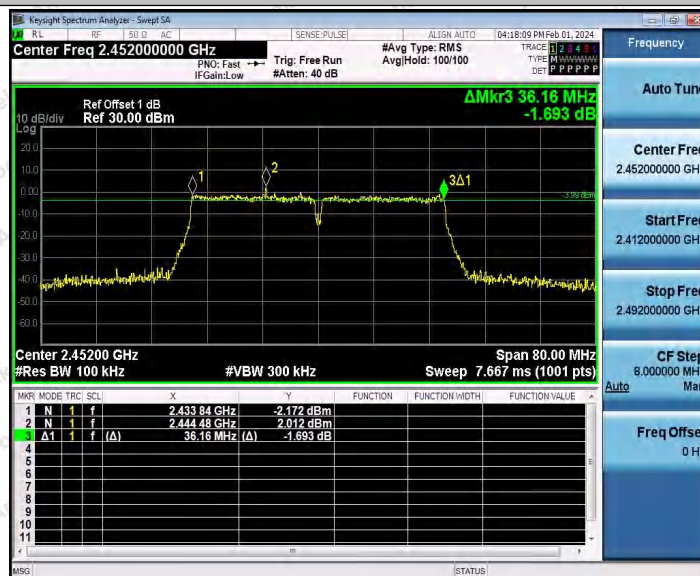
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



11AX20SISO_Ant1_2412

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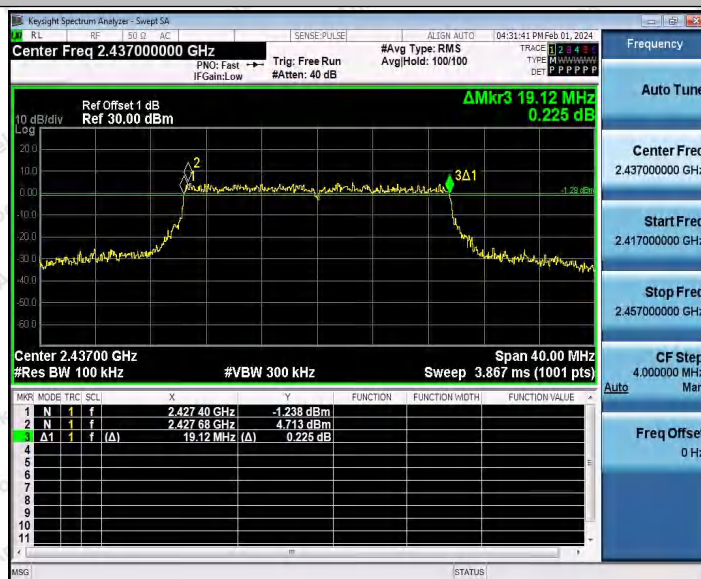


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11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



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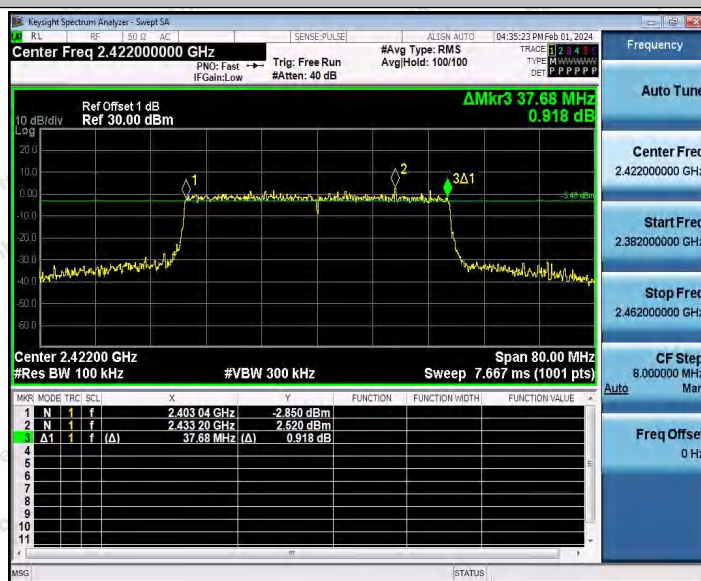
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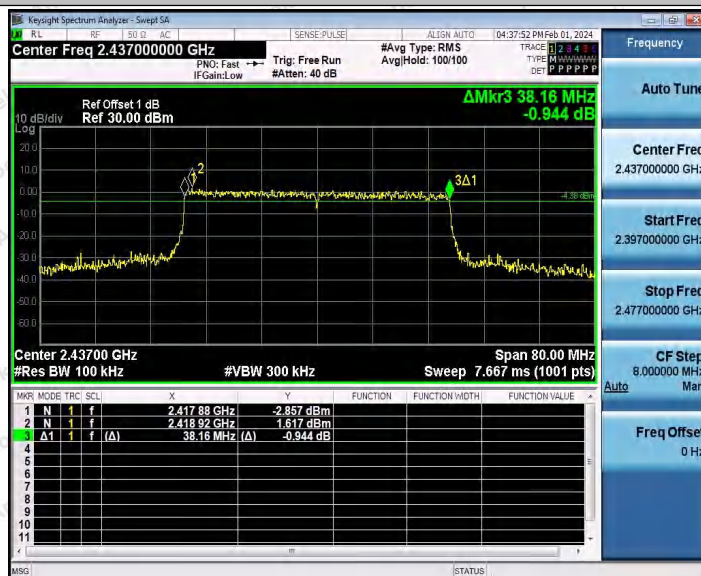
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11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452

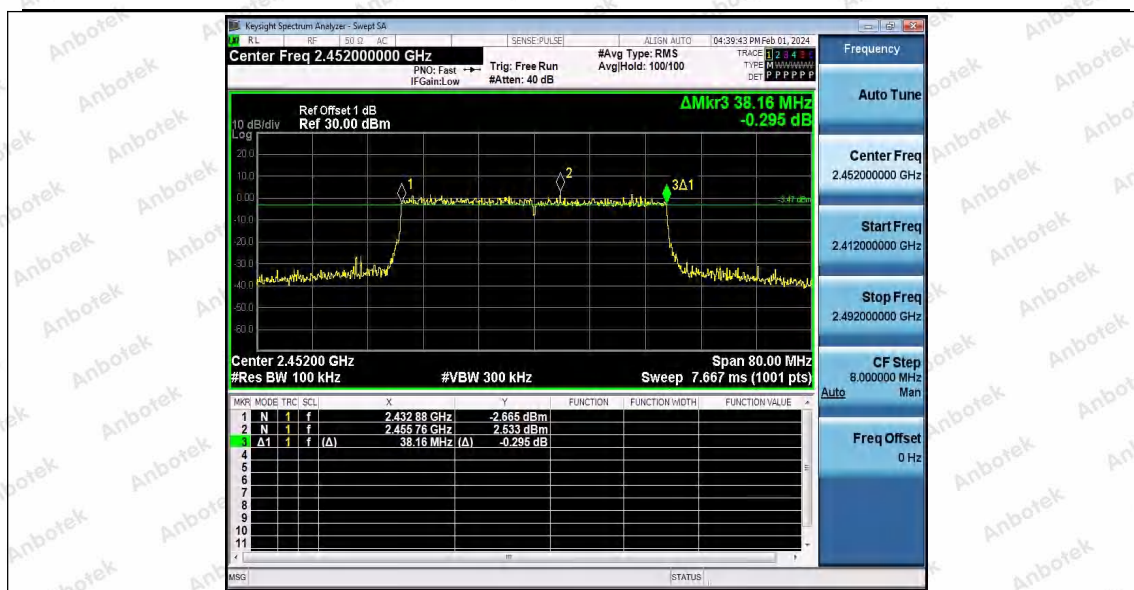
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.081	2406.0002	2418.0812	---	---
		2437	12.097	2430.9480	2443.0450	---	---
		2462	12.101	2455.9730	2468.0740	---	---
11G	Ant1	2412	17.548	2403.2827	2420.8307	---	---
		2437	17.561	2428.1715	2445.7325	---	---
		2462	17.452	2453.2615	2470.7135	---	---
11N20SISO	Ant1	2412	18.424	2402.8033	2421.2273	---	---
		2437	18.403	2427.7943	2446.1973	---	---
		2462	18.433	2452.8323	2471.2653	---	---
11N40SISO	Ant1	2422	36.764	2403.6089	2440.3729	---	---
		2437	36.554	2418.6862	2455.2402	---	---
		2452	36.582	2433.6936	2470.2756	---	---
11AX20SISO	Ant1	2412	19.221	2402.4508	2421.6718	---	---
		2437	19.238	2427.3523	2446.5903	---	---
		2462	19.232	2452.4098	2471.6418	---	---
11AX40SISO	Ant1	2422	38.017	2403.0120	2441.0290	---	---
		2437	38.023	2417.9727	2455.9957	---	---
		2452	38.053	2432.9648	2471.0178	---	---



Test Graphs



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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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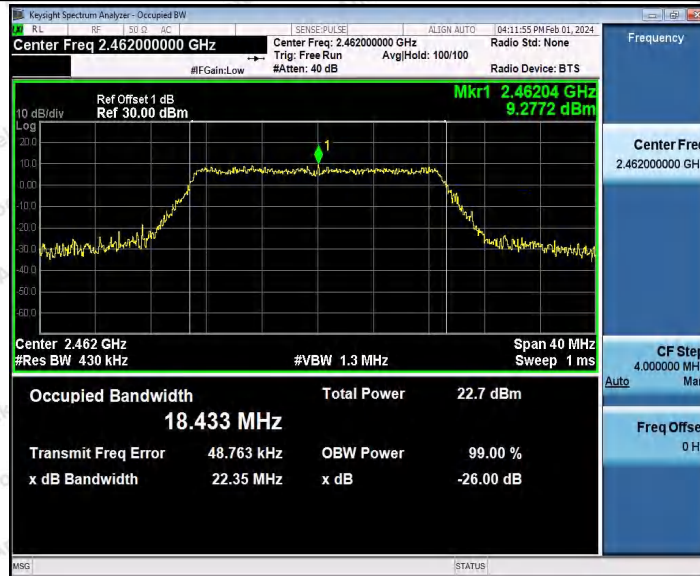


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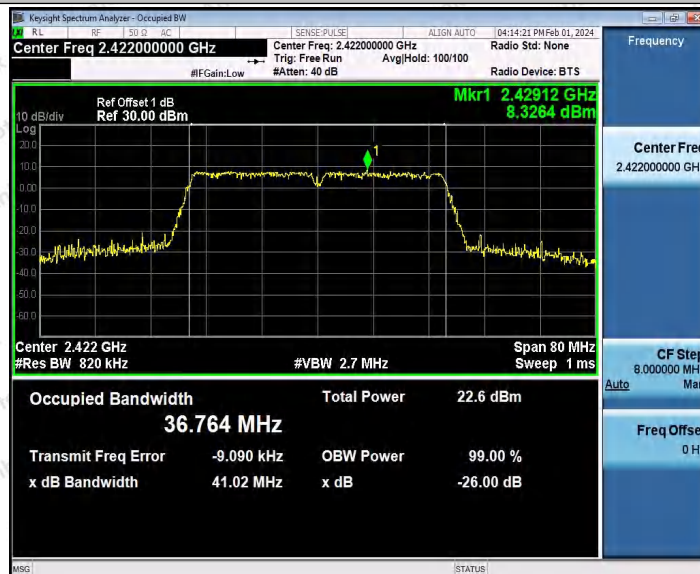




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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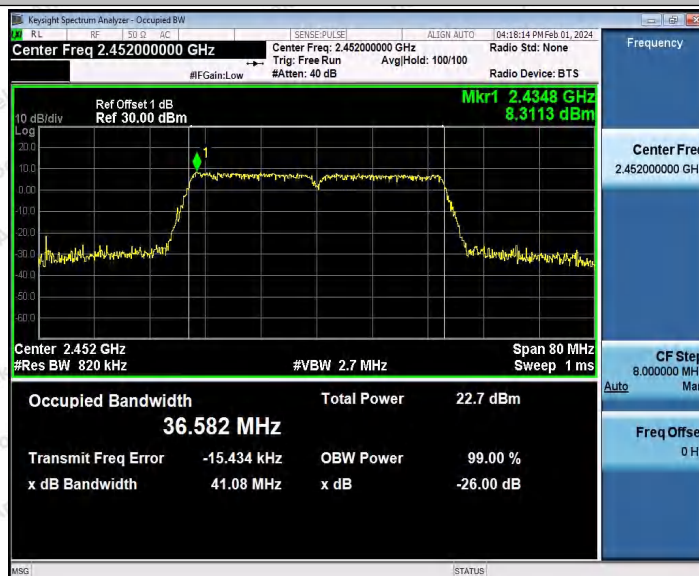
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



11AX20SISO_Ant1_2412

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11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



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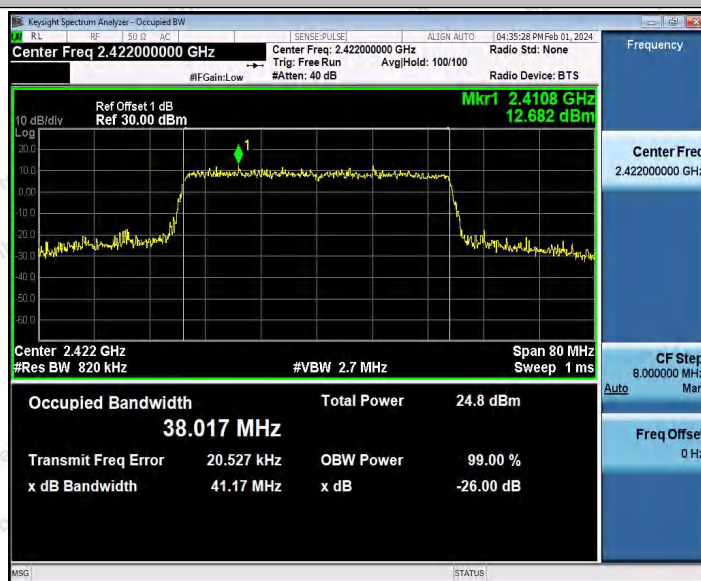
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11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



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Appendix C: Maximum conducted output power

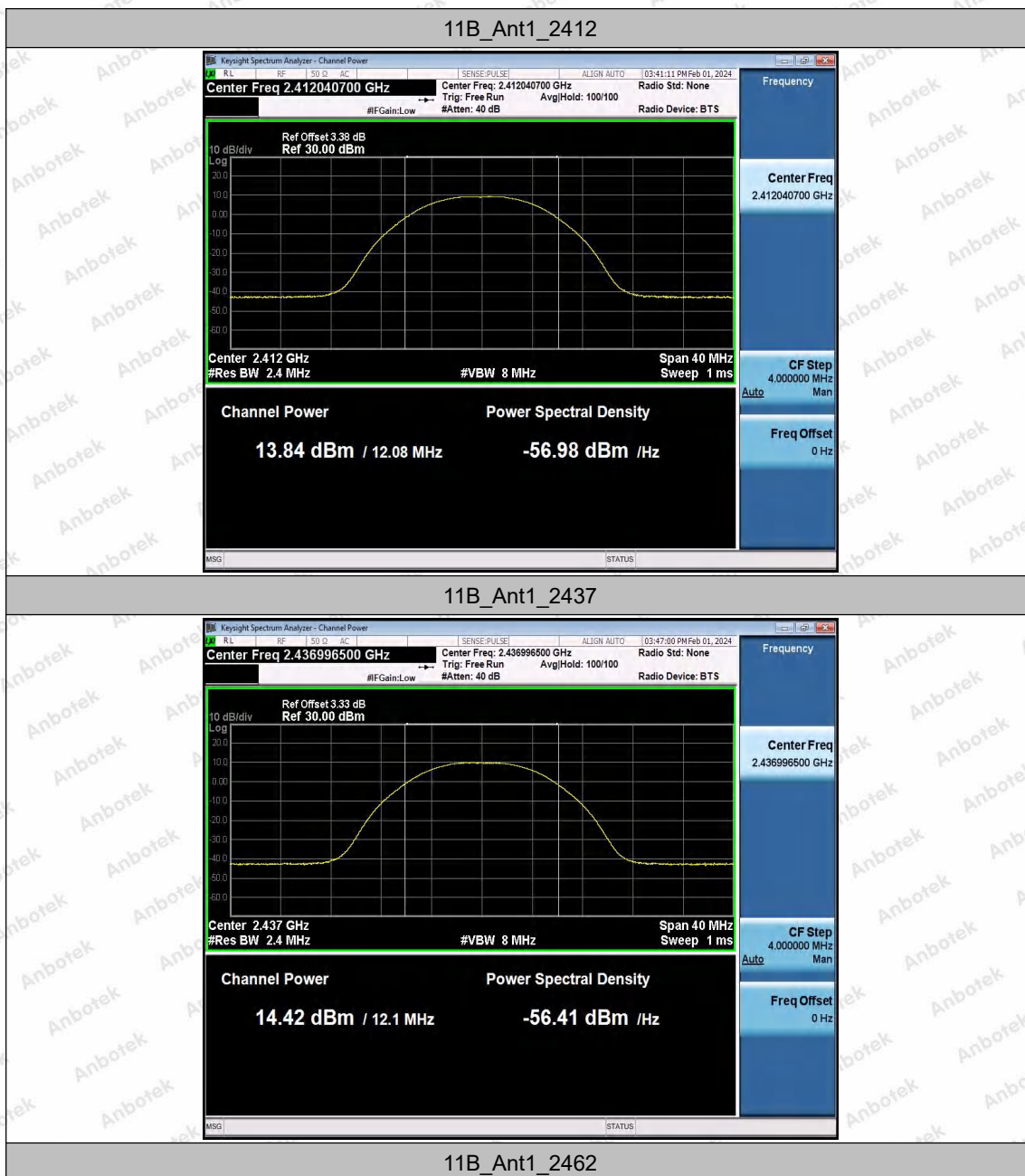
Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	13.84	≤30.00
		2437	14.42	≤30.00
		2462	13.17	≤30.00
11G	Ant1	2412	15.29	≤30.00
		2437	14.90	≤30.00
		2462	16.94	≤30.00
11N20SISO	Ant1	2412	13.76	≤30.00
		2437	14.65	≤30.00
		2462	14.60	≤30.00
11N40SISO	Ant1	2422	13.69	≤30.00
		2437	13.70	≤30.00
		2452	13.41	≤30.00
11AX20SISO	Ant1	2412	13.74	≤30.00
		2437	14.69	≤30.00
		2462	15.20	≤30.00
11AX40SISO	Ant1	2422	13.71	≤30.00
		2437	17.97	≤30.00
		2452	14.93	≤30.00

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



Test Graphs



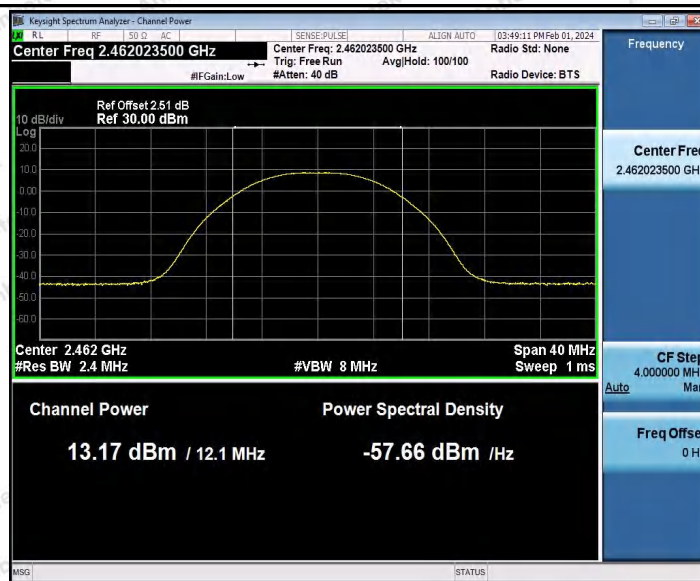
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11G_Ant1_2412



11G_Ant1_2437



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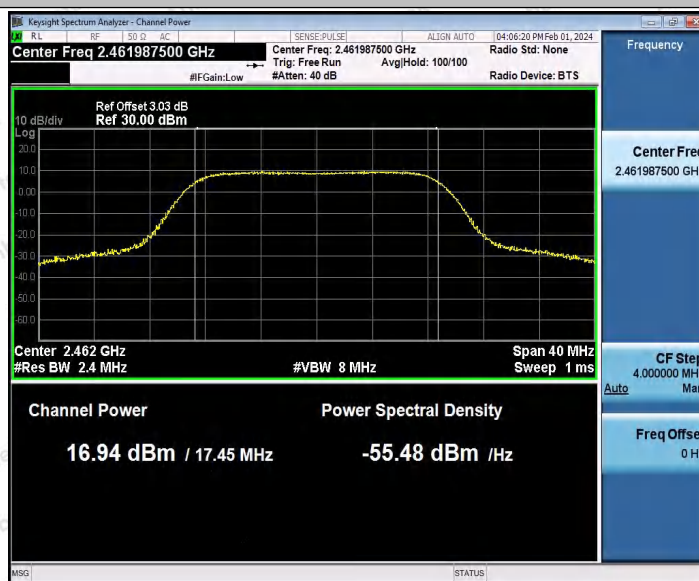
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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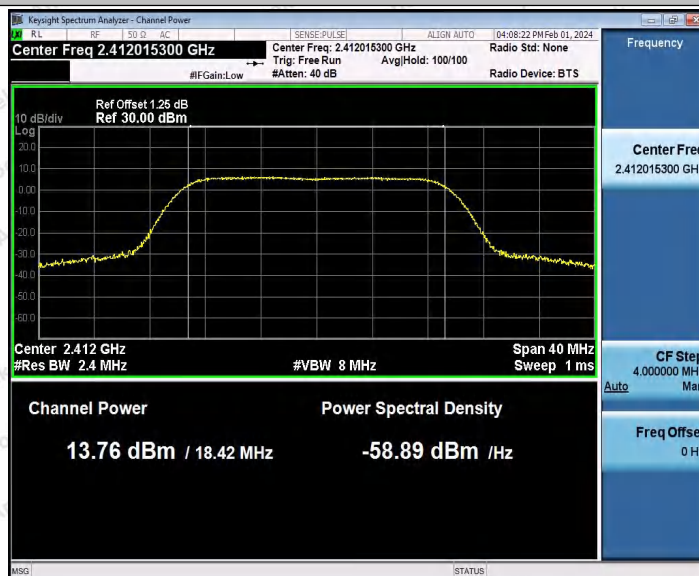
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

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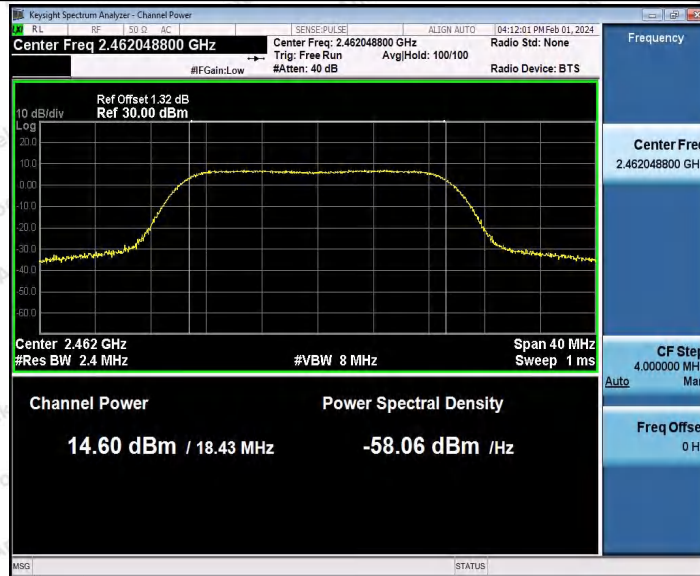


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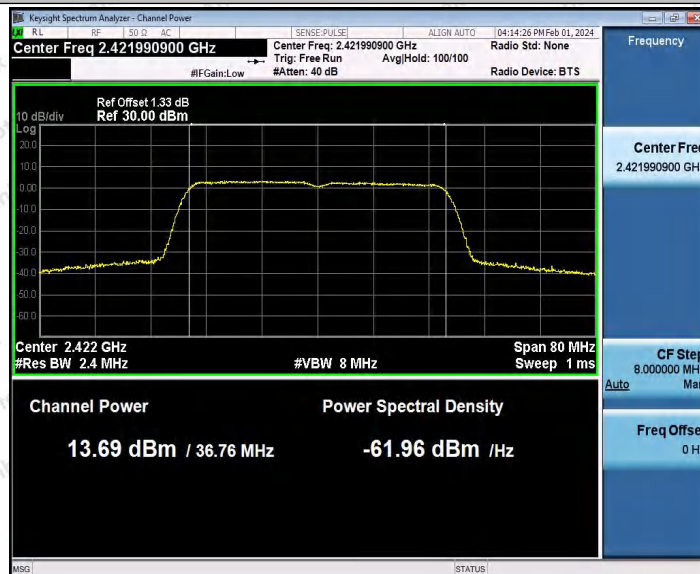




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



11AX20SISO_Ant1_2412

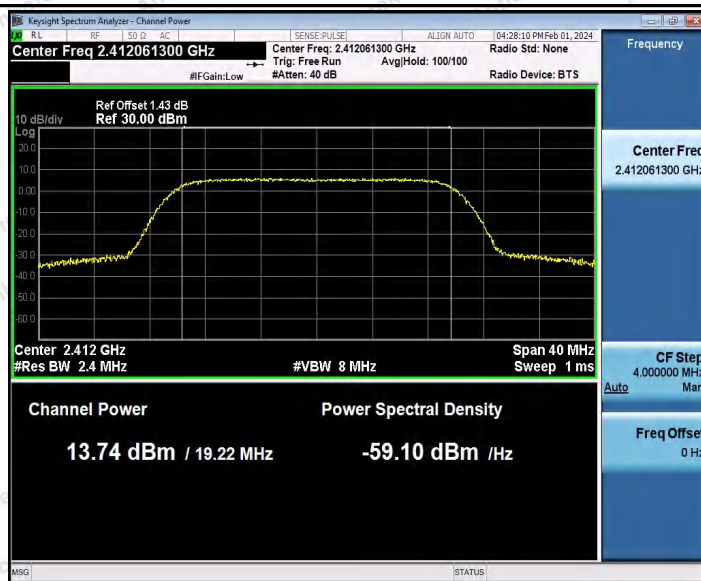
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11AX20SISO_Ant1_2462



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11AX40SISO_Ant1_2422



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Appendix D: Maximum power spectral density

Test Result

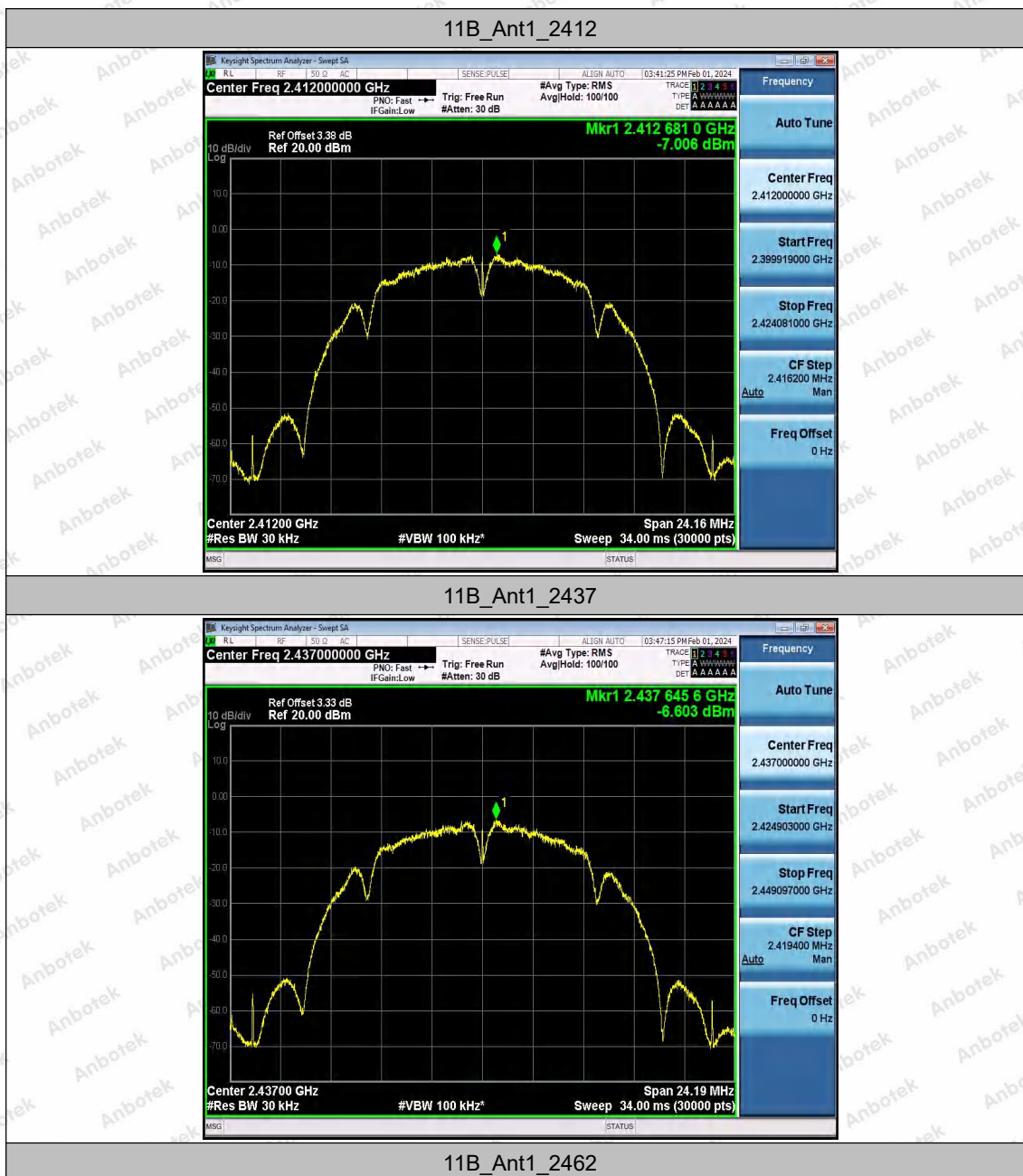
TestMode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-7.01	-17.01	≤8.00	PASS
		2437	-6.60	-16.60	≤8.00	PASS
		2462	-7.62	-17.62	≤8.00	PASS
11G	Ant1	2412	-8.69	-18.69	≤8.00	PASS
		2437	-7.90	-17.90	≤8.00	PASS
		2462	-6.96	-16.96	≤8.00	PASS
11N20SISO	Ant1	2412	-10.48	-20.48	≤8.00	PASS
		2437	-9.93	-19.93	≤8.00	PASS
		2462	-9.28	-19.28	≤8.00	PASS
11N40SISO	Ant1	2422	-13.88	-23.88	≤8.00	PASS
		2437	-12.94	-22.94	≤8.00	PASS
		2452	-13.24	-23.24	≤8.00	PASS
11AX20SISO	Ant1	2412	-11.79	-21.79	≤8.00	PASS
		2437	-9.47	-19.47	≤8.00	PASS
		2462	-9.68	-19.68	≤8.00	PASS
11AX40SISO	Ant1	2422	-13.6	-23.60	≤8.00	PASS
		2437	-10.83	-20.83	≤8.00	PASS
		2452	-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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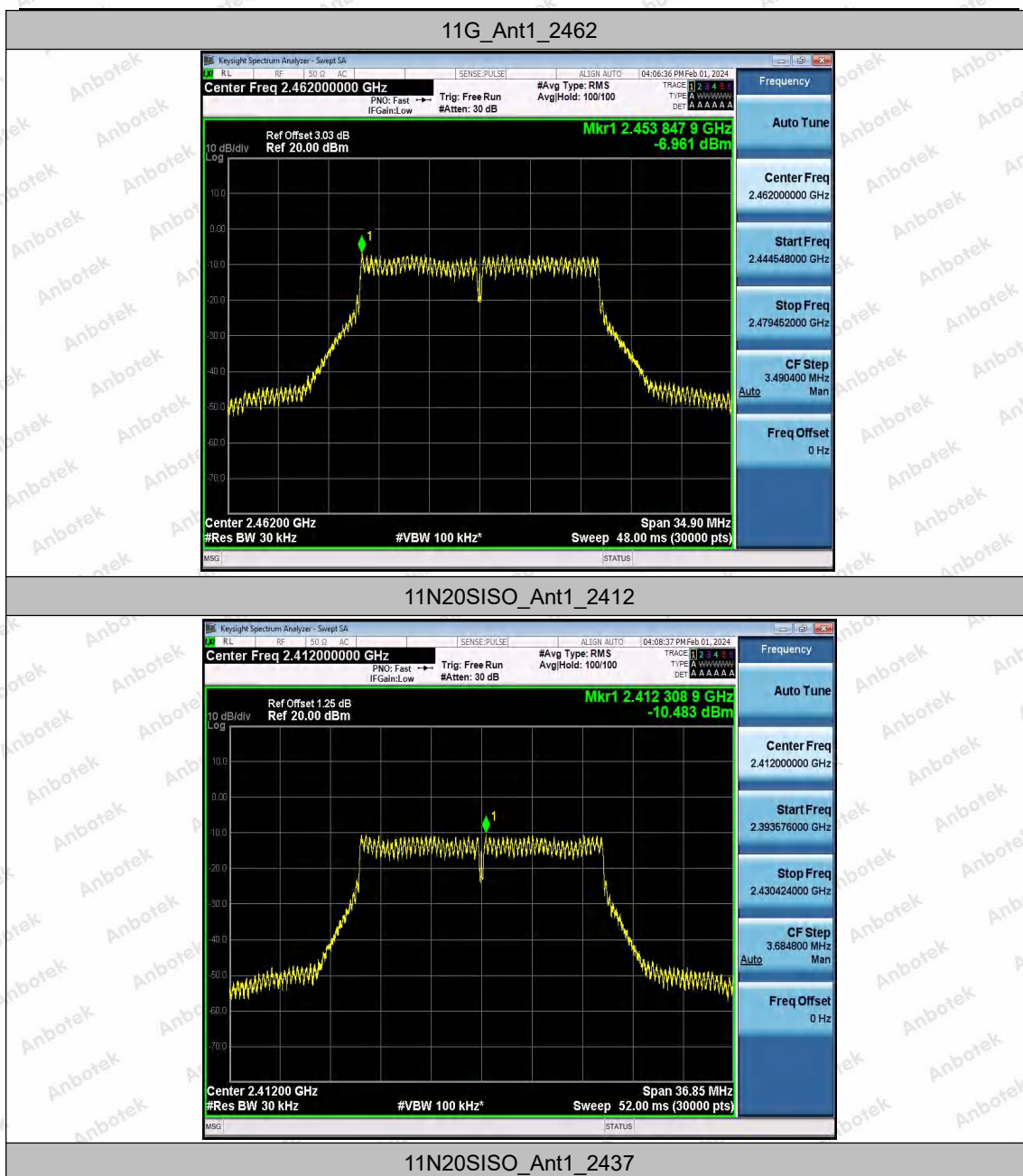


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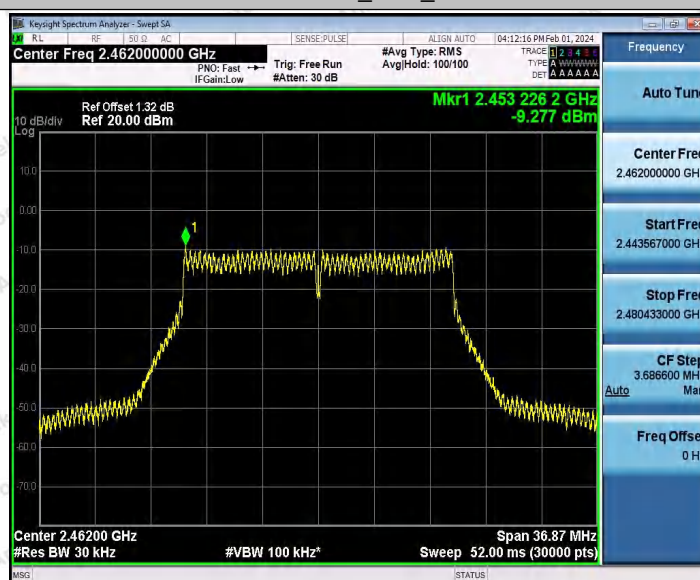


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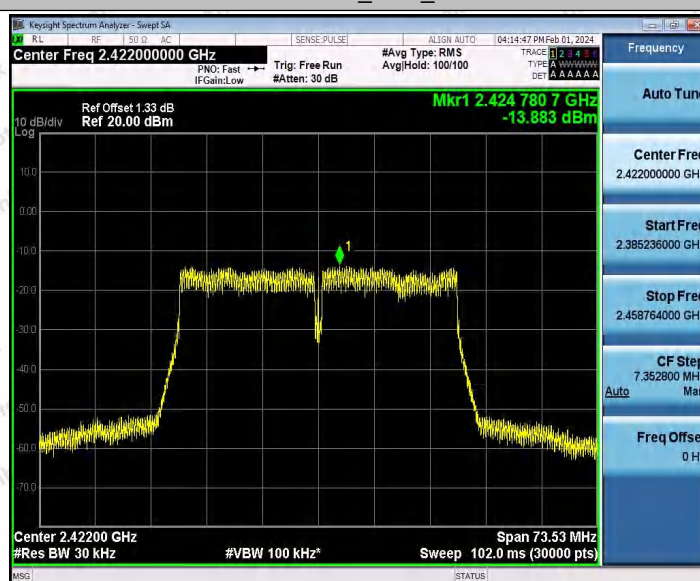




11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



11AX20SISO_Ant1_2412

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11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



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Appendix E: Band edge measurements

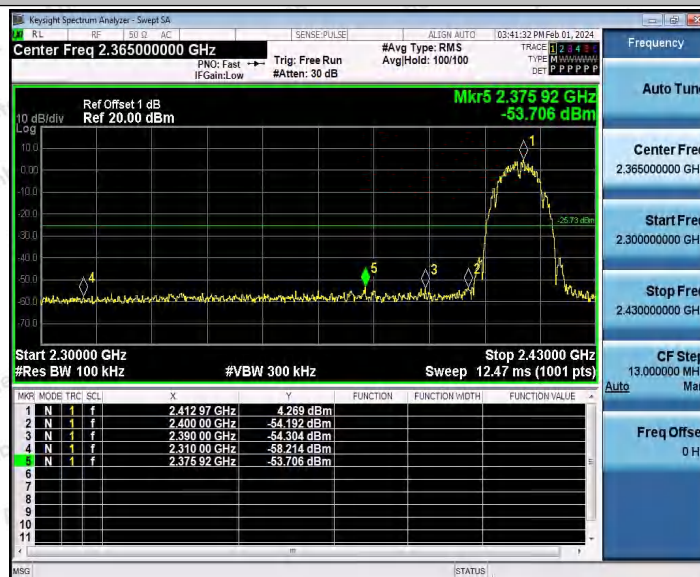
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.27	-53.71	≤-25.73	PASS
		High	2462	4.38	-55.31	≤-25.62	PASS
11G	Ant1	Low	2412	5.37	-26.1	≤-24.63	PASS
		High	2462	5.38	-39.9	≤-24.62	PASS
11N20SISO	Ant1	Low	2412	3.46	-28.97	≤-26.54	PASS
		High	2462	2.94	-40.04	≤-27.07	PASS
11N40SISO	Ant1	Low	2422	1.41	-35.35	≤-28.59	PASS
		High	2452	1.34	-38	≤-28.66	PASS
11AX20SISO	Ant1	Low	2412	3.70	-29.46	≤-26.3	PASS
		High	2462	6.93	-32.84	≤-23.07	PASS
11AX40SISO	Ant1	Low	2422	2.06	-28.41	≤-27.94	PASS
		High	2452	2.34	-33	≤-27.66	PASS

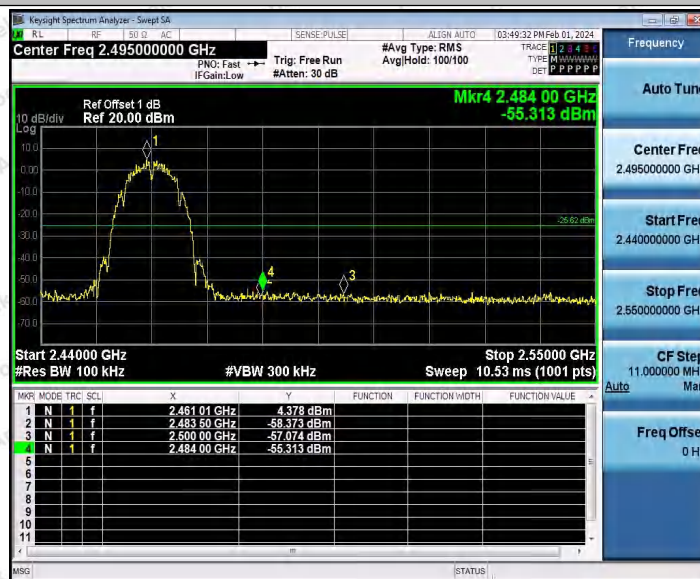


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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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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