

Appendix Test Data

Report No.:	18220WC30263001	Test Sample No.:	1-2-2
Start Test Date:	2024.1.11	Finish Test Date:	2024.1.12
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.6℃	Relative Humidity:	45%
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	8.000	2408.040	2416.040	0.5	PASS
	Ant2	2412	7.560	2408.480	2416.040	0.5	PASS
	Ant1	2437	8.080	2432.960	2441.040	0.5	PASS
	Ant2	2437	8.040	2433.000	2441.040	0.5	PASS
	Ant1	2462	7.560	2458.000	2465.560	0.5	PASS
	Ant2	2462	7.080	2458.480	2465.560	0.5	PASS
11G	Ant1	2412	15.000	2404.520	2419.520	0.5	PASS
	Ant2	2412	16.280	2403.880	2420.160	0.5	PASS
	Ant1	2437	16.280	2428.880	2445.160	0.5	PASS
	Ant2	2437	15.680	2429.240	2444.920	0.5	PASS
	Ant1	2462	16.120	2453.840	2469.960	0.5	PASS
	Ant2	2462	16.040	2453.880	2469.920	0.5	PASS
11N20SISO	Ant1	2412	16.840	2403.600	2420.440	0.5	PASS
	Ant2	2412	17.160	2403.280	2420.440	0.5	PASS
	Ant1	2437	17.160	2428.240	2445.400	0.5	PASS
	Ant2	2437	15.000	2429.520	2444.520	0.5	PASS
	Ant1	2462	16.760	2453.640	2470.400	0.5	PASS
	Ant2	2462	16.760	2453.640	2470.400	0.5	PASS
11N40SISO	Ant1	2422	36.400	2403.840	2440.240	0.5	PASS
	Ant2	2422	35.760	2404.160	2439.920	0.5	PASS
	Ant1	2437	36.320	2418.840	2455.160	0.5	PASS
	Ant2	2437	36.320	2418.840	2455.160	0.5	PASS
	Ant1	2452	35.280	2434.480	2469.760	0.5	PASS
	Ant2	2452	35.600	2434.240	2469.840	0.5	PASS

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11AX20SISO	Ant1	2412	18.440	2402.800	2421.240	0.5	PASS
	Ant2	2412	17.360	2403.560	2420.920	0.5	PASS
	Ant1	2437	18.440	2427.800	2446.240	0.5	PASS
	Ant2	2437	17.720	2428.320	2446.040	0.5	PASS
	Ant1	2462	19.000	2452.520	2471.520	0.5	PASS
	Ant2	2462	18.400	2452.880	2471.280	0.5	PASS
11AX40SISO	Ant1	2422	37.760	2403.040	2440.800	0.5	PASS
	Ant2	2422	37.840	2403.120	2440.960	0.5	PASS
	Ant1	2437	37.840	2418.200	2456.040	0.5	PASS
	Ant2	2437	37.840	2418.120	2455.960	0.5	PASS
	Ant1	2452	37.760	2433.120	2470.880	0.5	PASS
	Ant2	2452	37.760	2433.200	2470.960	0.5	PASS

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Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437





11B_Ant2_2437



11B_Ant1_2462



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11B_Ant2_2462



11G_Ant1_2412



11G_Ant2_2412

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11G_Ant1_2437



11G_Ant2_2437



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11G_Ant1_2462



11G_Ant2_2462



11N20SISO_Ant1_2412

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11N20SISO_Ant2_2412



11N20SISO_Ant1_2437



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11N20SISO_Ant2_2437



11N20SISO_Ant1_2462



11N20SISO_Ant2_2462

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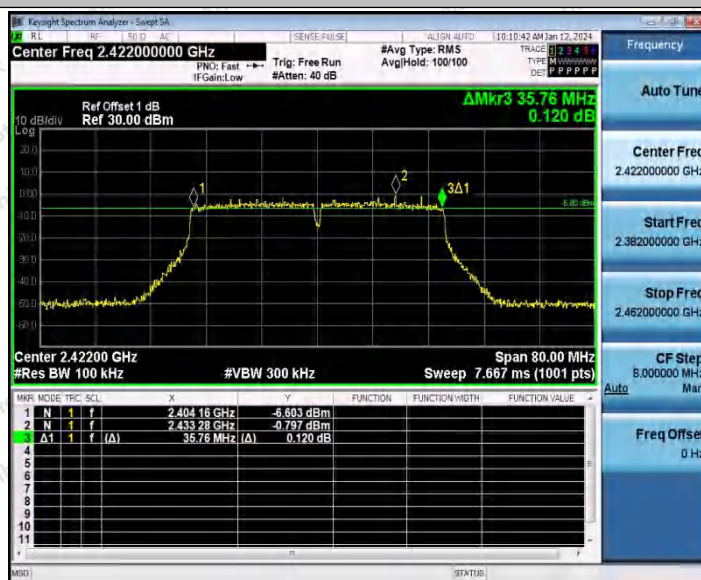




11N40SISO_Ant1_2422



11N40SISO_Ant2_2422



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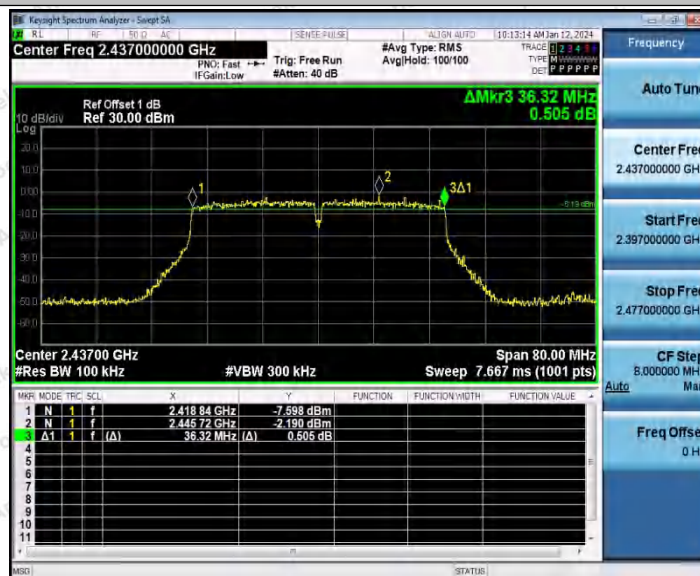
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11N40SISO_Ant1_2437



11N40SISO_Ant2_2437



11N40SISO_Ant1_2452

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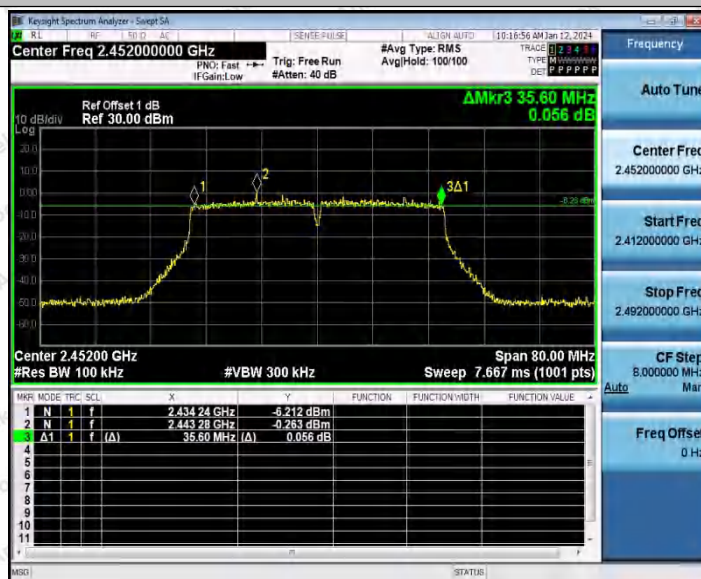


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11N40SISO_Ant2_2452



11AX20SISO_Ant1_2412



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11AX20SISO_Ant2_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant2_2437

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11AX20SISO_Ant1_2462



11AX20SISO_Ant2_2462



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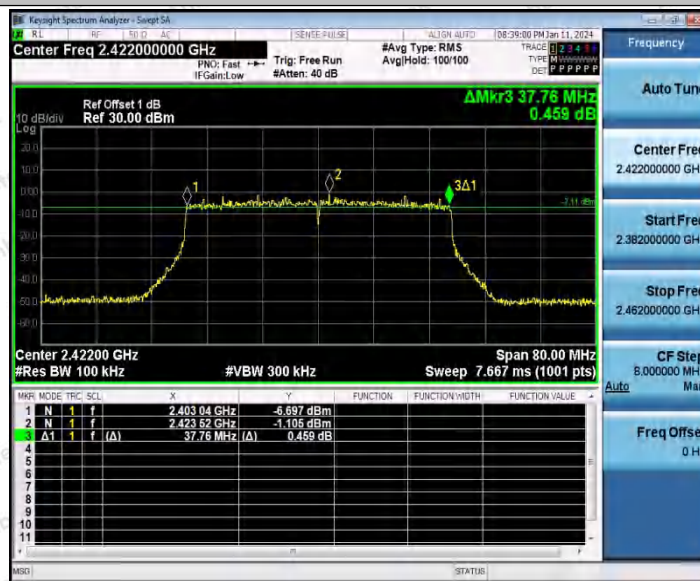
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11AX40SISO_Ant1_2422



11AX40SISO_Ant2_2422



11AX40SISO_Ant1_2437

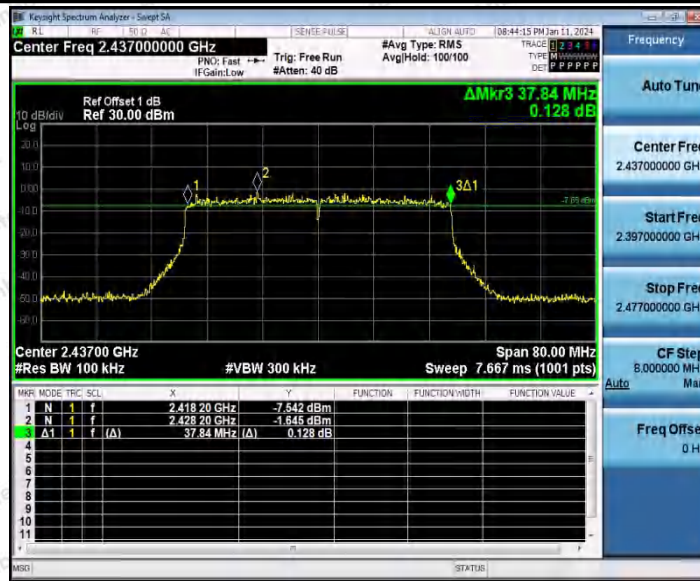
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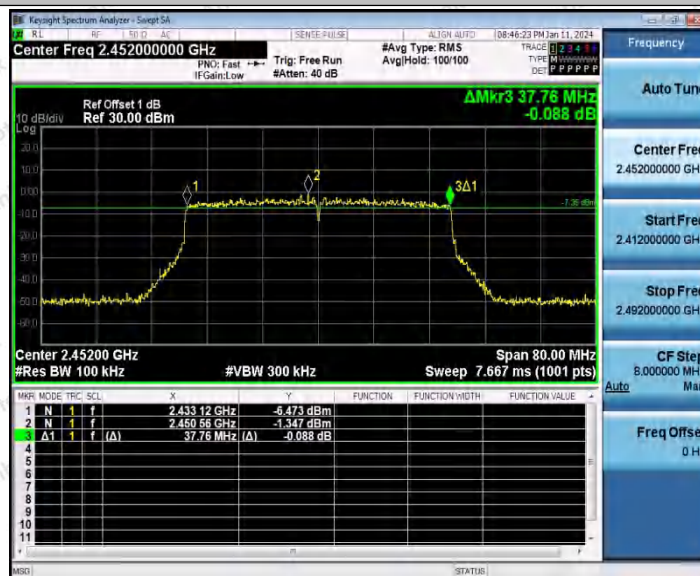




11AX40SISO_Ant2_2437



11AX40SISO_Ant1_2452



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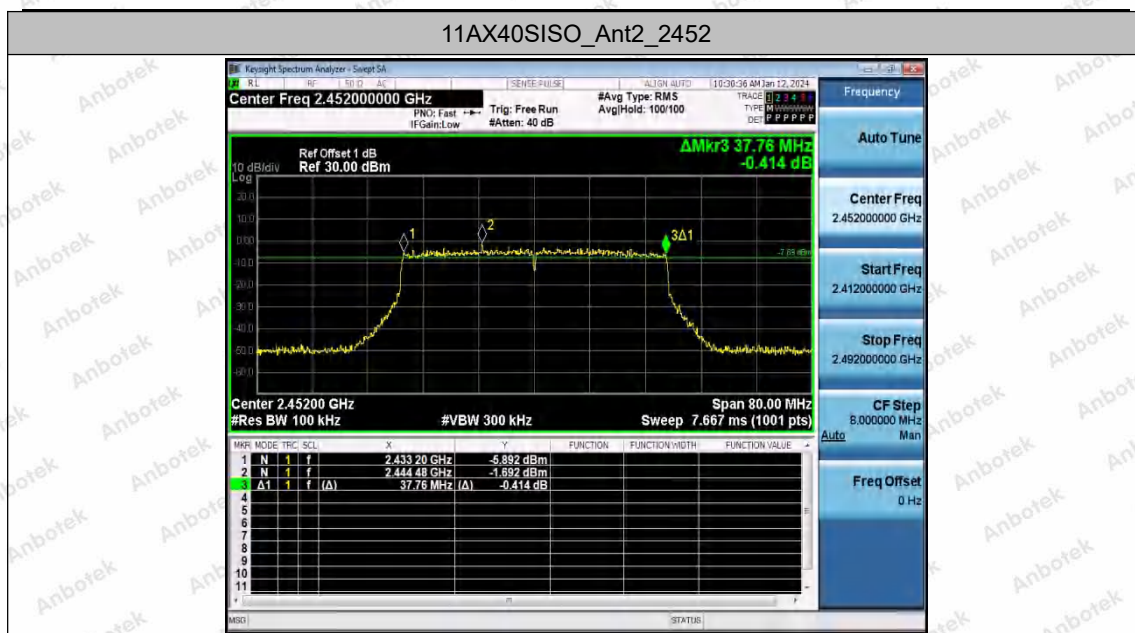


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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.933	2405.5854	2418.5184	---	---
	Ant2	2412	12.931	2405.5971	2418.5281	---	---
	Ant1	2437	12.936	2430.5766	2443.5126	---	---
	Ant2	2437	12.938	2430.5957	2443.5337	---	---
	Ant1	2462	12.921	2455.5711	2468.4921	---	---
	Ant2	2462	12.922	2455.6006	2468.5226	---	---
11G	Ant1	2412	16.550	2403.7677	2420.3177	---	---
	Ant2	2412	16.591	2403.7643	2420.3553	---	---
	Ant1	2437	16.548	2428.7834	2445.3314	---	---
	Ant2	2437	16.548	2428.7829	2445.3309	---	---
	Ant1	2462	16.562	2453.7585	2470.3205	---	---
	Ant2	2462	16.567	2453.7807	2470.3477	---	---
11N20SISO	Ant1	2412	17.756	2403.1795	2420.9355	---	---
	Ant2	2412	17.740	2403.1423	2420.8823	---	---
	Ant1	2437	17.729	2428.1774	2445.9064	---	---
	Ant2	2437	17.735	2428.1795	2445.9145	---	---
	Ant1	2462	17.733	2453.1610	2470.8940	---	---
	Ant2	2462	17.745	2453.1906	2470.9356	---	---
11N40SISO	Ant1	2422	36.195	2403.9838	2440.1788	---	---
	Ant2	2422	36.159	2404.0304	2440.1894	---	---
	Ant1	2437	36.160	2418.9881	2455.1481	---	---
	Ant2	2437	36.182	2419.0010	2455.1830	---	---
	Ant1	2452	36.151	2433.9953	2470.1463	---	---
	Ant2	2452	36.240	2433.9510	2470.1910	---	---
11AX20SISO	Ant1	2412	19.011	2402.5444	2421.5554	---	---
	Ant2	2412	18.997	2402.5633	2421.5603	---	---
	Ant1	2437	19.013	2427.5299	2446.5429	---	---
	Ant2	2437	18.999	2427.5562	2446.5552	---	---
	Ant1	2462	18.983	2452.5468	2471.5298	---	---
	Ant2	2462	19.003	2452.5666	2471.5696	---	---
11AX40SISO	Ant1	2422	37.809	2403.1675	2440.9765	---	---
	Ant2	2422	37.772	2403.1571	2440.9291	---	---
	Ant1	2437	37.869	2418.1514	2456.0204	---	---
	Ant2	2437	37.820	2418.2437	2456.0637	---	---
	Ant1	2452	37.882	2433.1741	2471.0561	---	---
	Ant2	2452	37.831	2433.1392	2470.9702	---	---

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Test Graphs



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11B_Ant2_2437



11B_Ant1_2462



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11B_Ant2_2462



11G_Ant1_2412



11G_Ant2_2412

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11G_Ant1_2437



11G_Ant2_2437



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11G_Ant1_2462



11G_Ant2_2462



11N20SISO_Ant1_2412

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11N20SISO_Ant2_2412



11N20SISO_Ant1_2437



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11N20SISO_Ant1_2462



11N20SISO_Ant2_2462

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11N40SISO_Ant1_2422



11N40SISO_Ant2_2422



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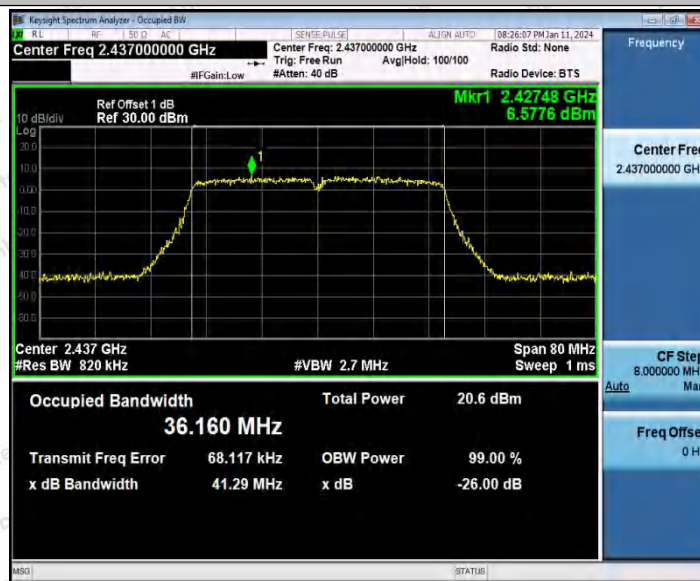
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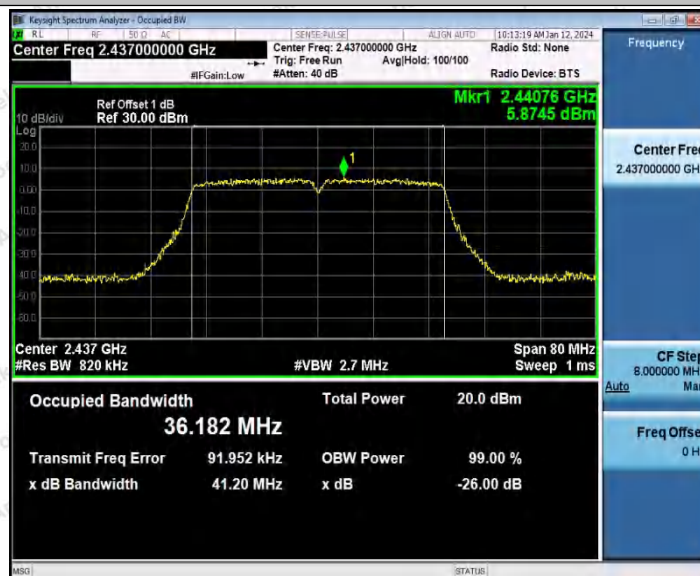
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11N40SISO_Ant1_2437



11N40SISO_Ant2_2437



11N40SISO_Ant1_2452

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11N40SISO_Ant2_2452



11AX20SISO_Ant1_2412



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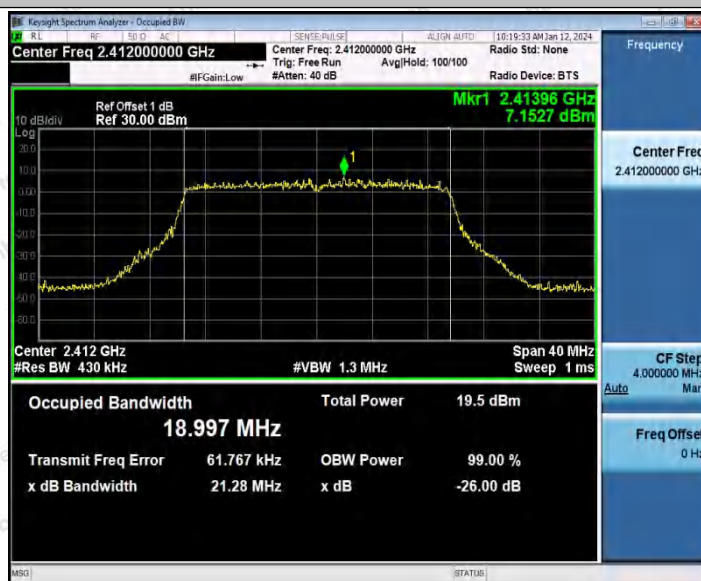
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11AX20SISO_Ant2_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant2_2437

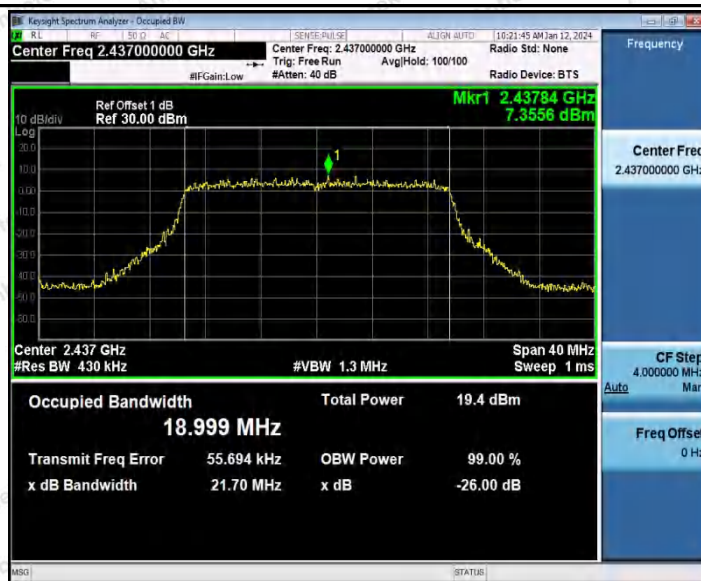
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11AX20SISO_Ant1_2462



11AX20SISO_Ant2_2462



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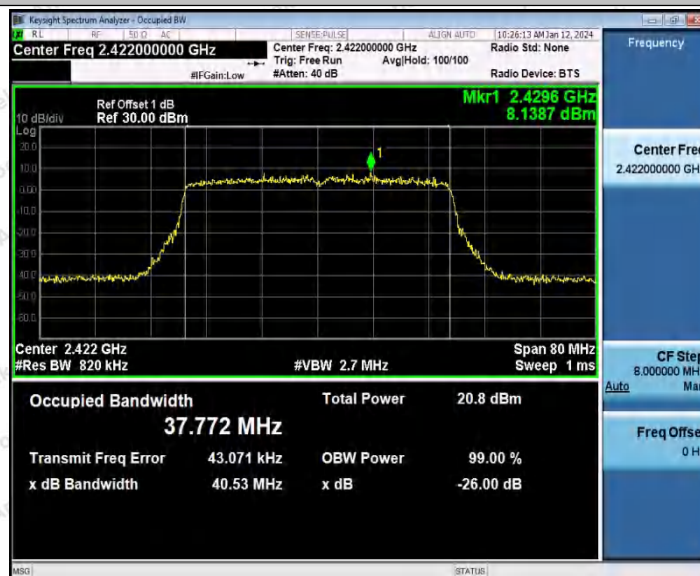
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11AX40SISO_Ant1_2422



11AX40SISO_Ant2_2422



11AX40SISO_Ant1_2437

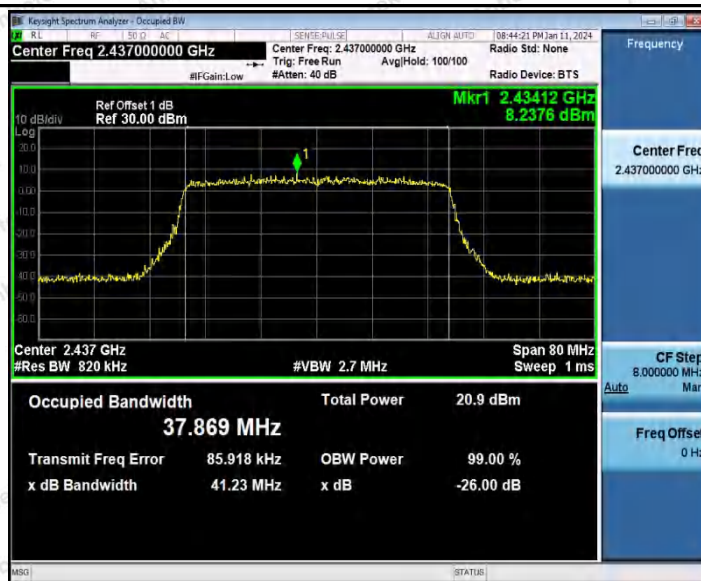
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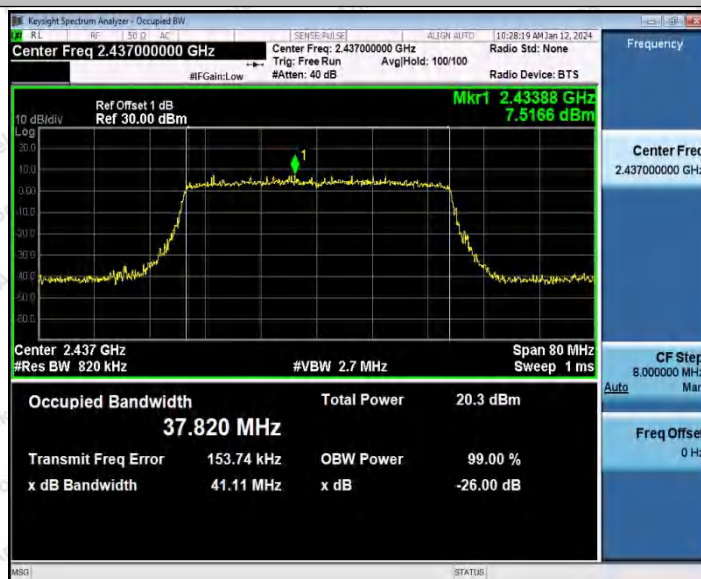


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11AX40SISO_Ant2_2437



11AX40SISO_Ant1_2452



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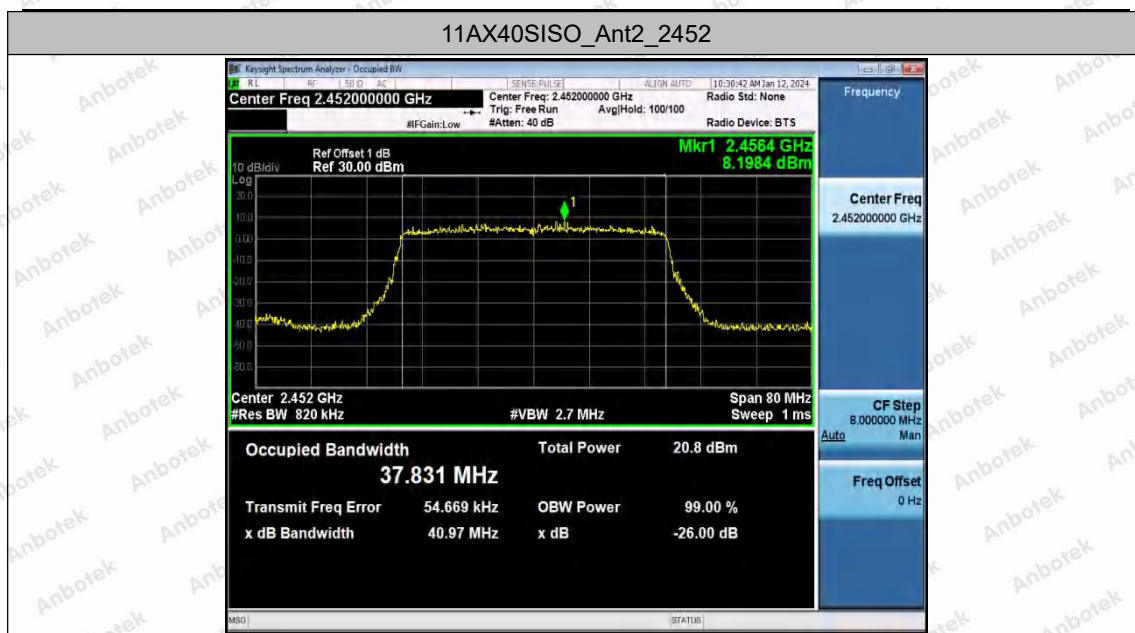


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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	11.80	≤30.00
	Ant2	2412	13.39	≤30.00
	Ant1	2437	12.49	≤30.00
	Ant2	2437	13.48	≤30.00
	Ant1	2462	12.02	≤30.00
	Ant2	2462	12.37	≤30.00
11G	Ant1	2412	12.71	≤30.00
	Ant2	2412	12.95	≤30.00
	Ant1	2437	13.51	≤30.00
	Ant2	2437	12.56	≤30.00
	Ant1	2462	12.94	≤30.00
	Ant2	2462	12.66	≤30.00
11N20SISO	Ant1	2412	12.95	≤30.00
	Ant2	2412	12.24	≤30.00
	Ant1	2437	12.68	≤30.00
	Ant2	2437	11.99	≤30.00
	Ant1	2462	12.74	≤30.00
	Ant2	2462	12.62	≤30.00
11N40SISO	Ant1	2422	13.71	≤30.00
	Ant2	2422	13.18	≤30.00
	Ant1	2437	13.33	≤30.00
	Ant2	2437	12.73	≤30.00
	Ant1	2452	13.77	≤30.00
	Ant2	2452	13.47	≤30.00
11AX20SISO	Ant1	2412	12.33	≤30.00
	Ant2	2412	12.11	≤30.00
	Ant1	2437	12.66	≤30.00
	Ant2	2437	11.96	≤30.00
	Ant1	2462	12.94	≤30.00
	Ant2	2462	12.55	≤30.00
11AX40SISO	Ant1	2422	13.08	≤30.00
	Ant2	2422	12.92	≤30.00
	Ant1	2437	13.01	≤30.00
	Ant2	2437	12.30	≤30.00
	Ant1	2452	13.52	≤30.00
	Ant2	2452	13.02	≤30.00

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

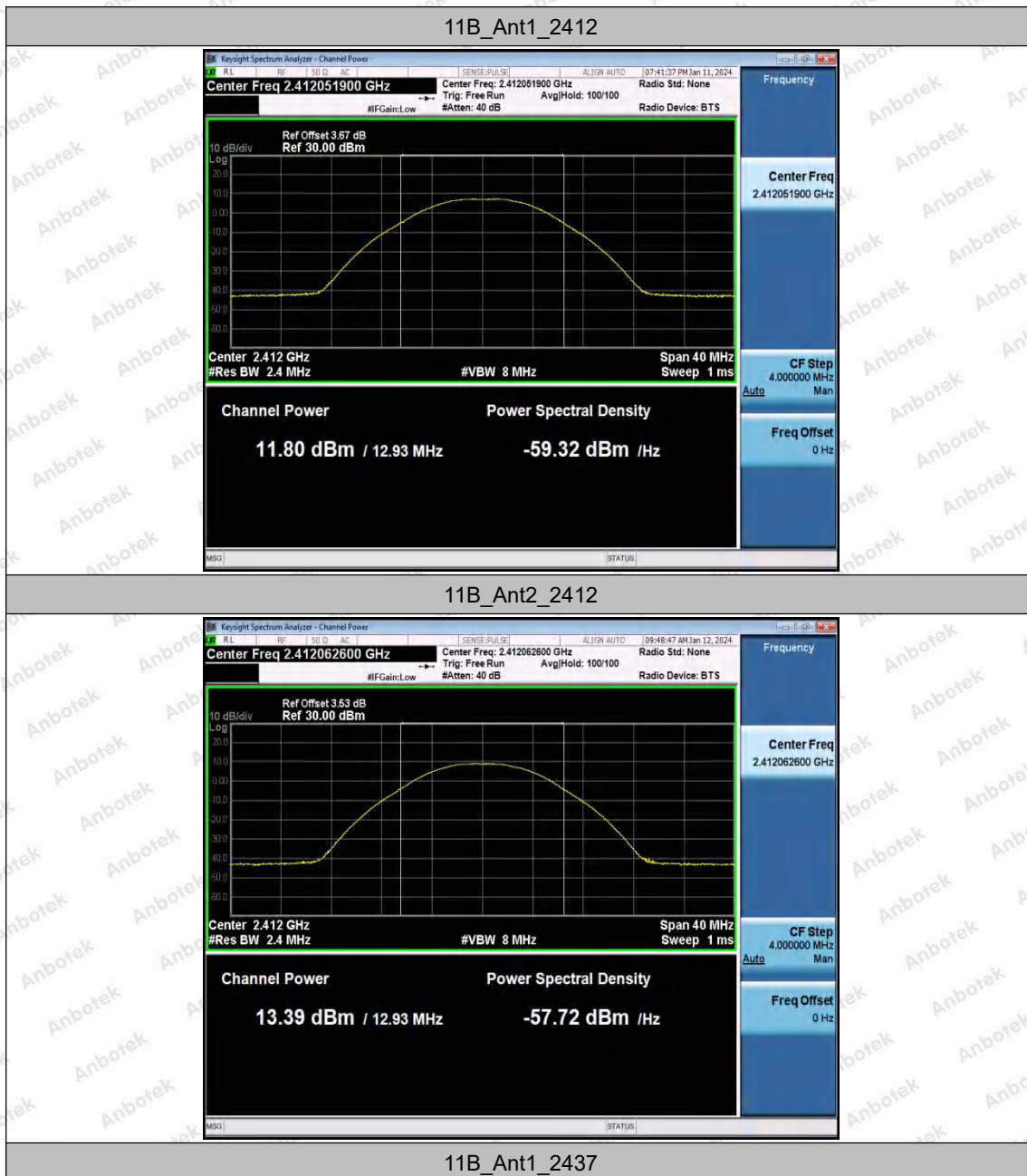
MIMO

TestMode	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11N20MIMO	2412	15.62	≤ 28.15
	2437	15.36	≤ 28.15
	2462	15.69	≤ 28.15
11N40MIMO	2422	16.46	≤ 28.15
	2437	16.05	≤ 28.15
	2452	16.63	≤ 28.15
11AX20MIMO	2412	15.23	≤ 28.15
	2437	15.33	≤ 28.15
	2462	15.76	≤ 28.15
11AX40MIMO	2422	16.01	≤ 28.15
	2437	15.68	≤ 28.15
	2452	16.29	≤ 28.15

1. As Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$ dBi=7.85>6dBi,
so limit=30-(7.85-6.00)=28.15dBm.
2. NOTE: MIMO= $10 \cdot \log((10^{ANT1/10} + 10^{(ANT2/10)})$



Test Graphs



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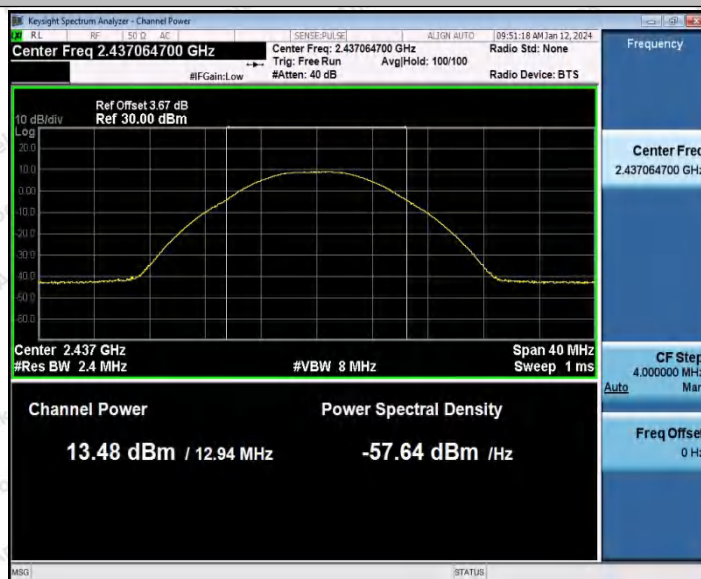
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11B_Ant2_2437



11B_Ant1_2462



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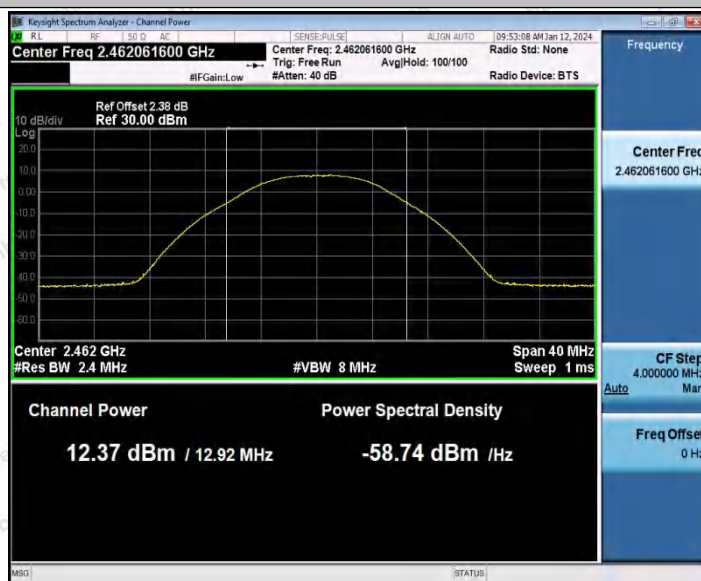
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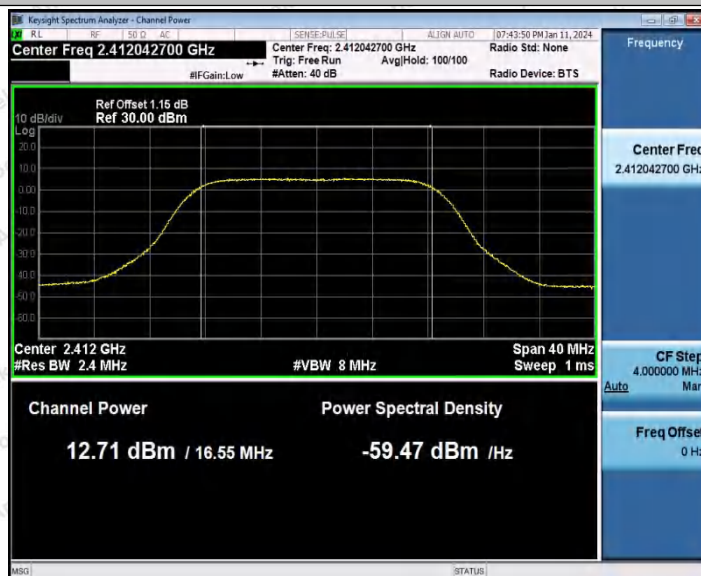
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11B_Ant2_2462



11G_Ant1_2412



11G_Ant2_2412

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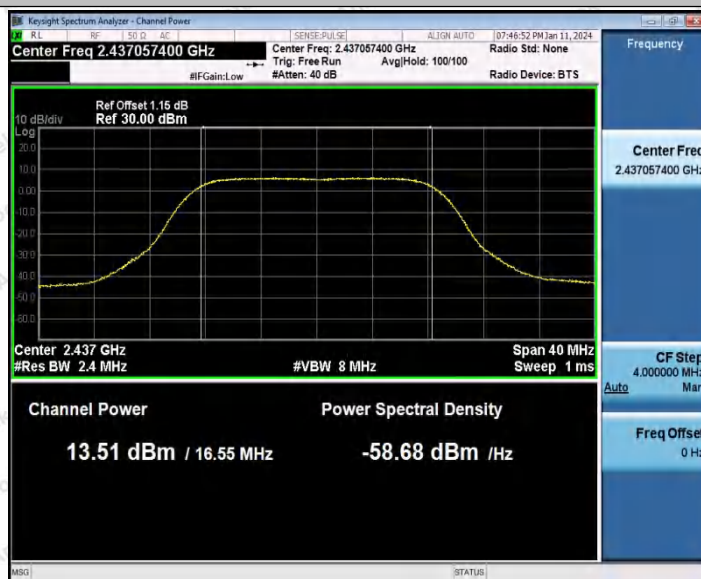


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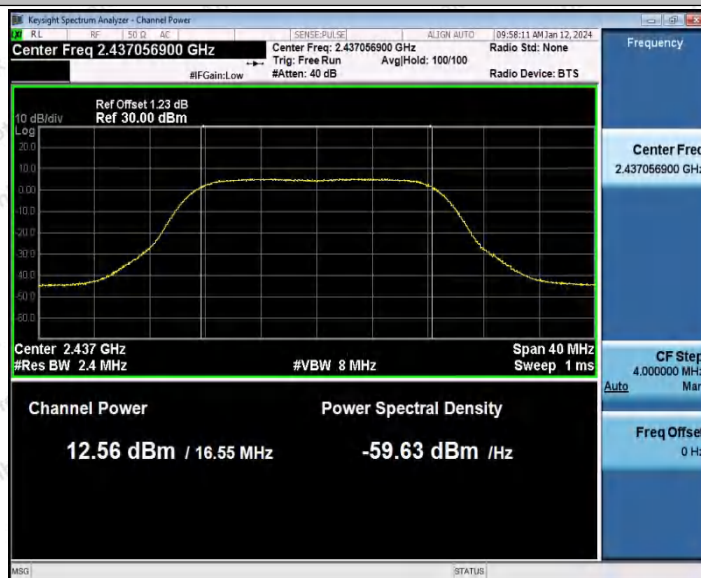




11G_Ant1_2437



11G_Ant2_2437



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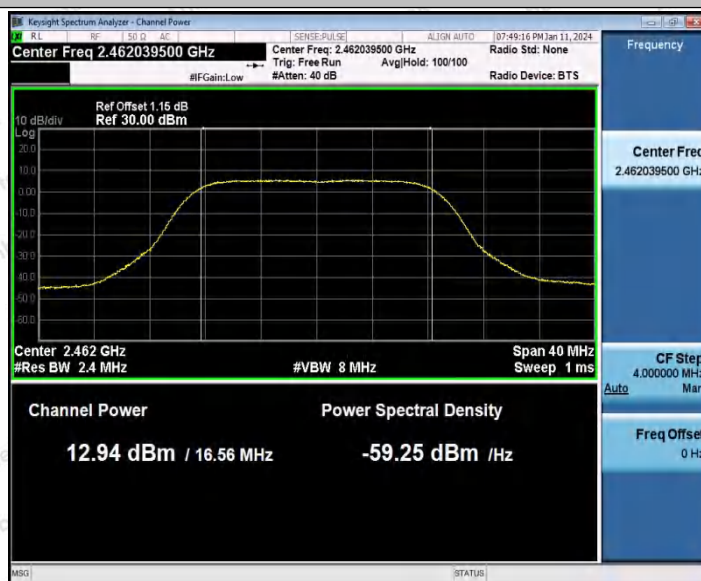
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11G_Ant1_2462



11G_Ant2_2462



11N20SISO_Ant1_2412

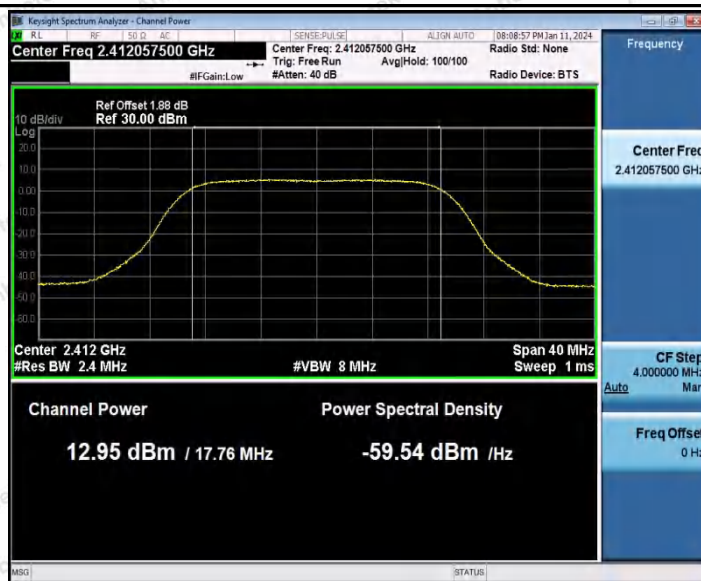
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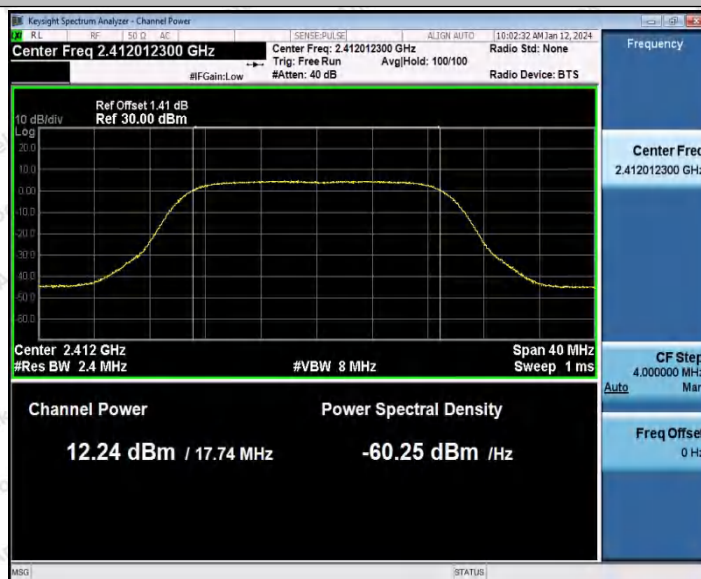


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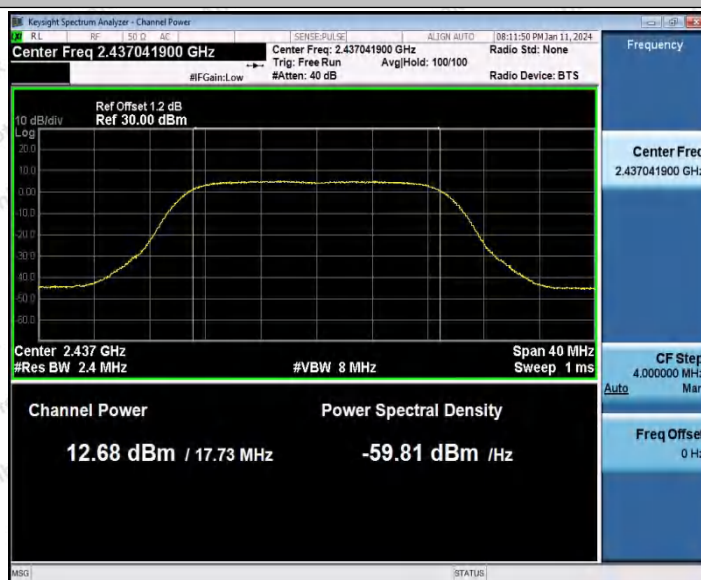




11N20SISO_Ant2_2412



11N20SISO_Ant1_2437



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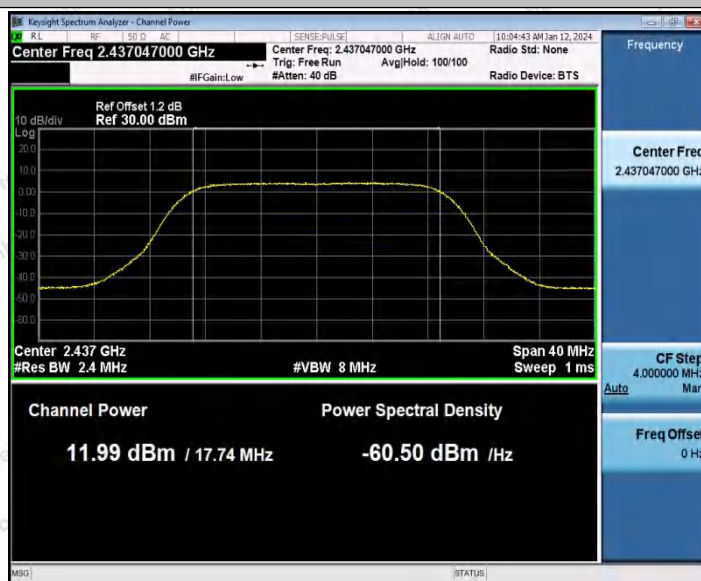
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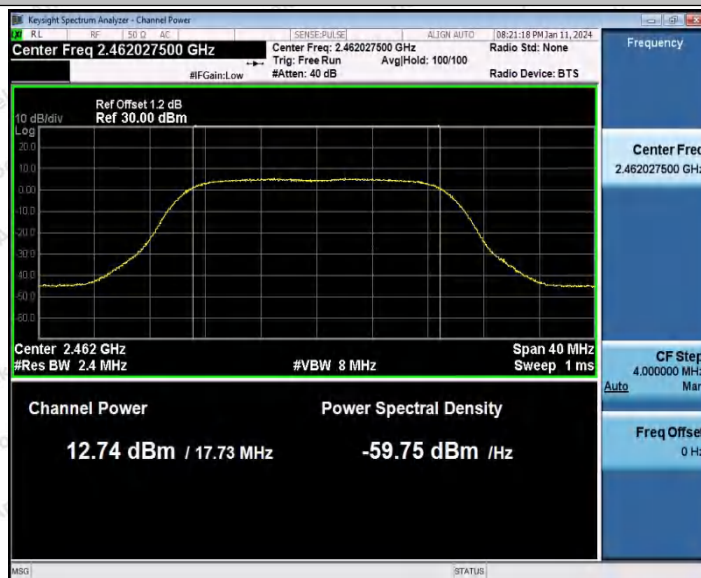
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11N20SISO_Ant2_2437



11N20SISO_Ant1_2462



11N20SISO_Ant2_2462

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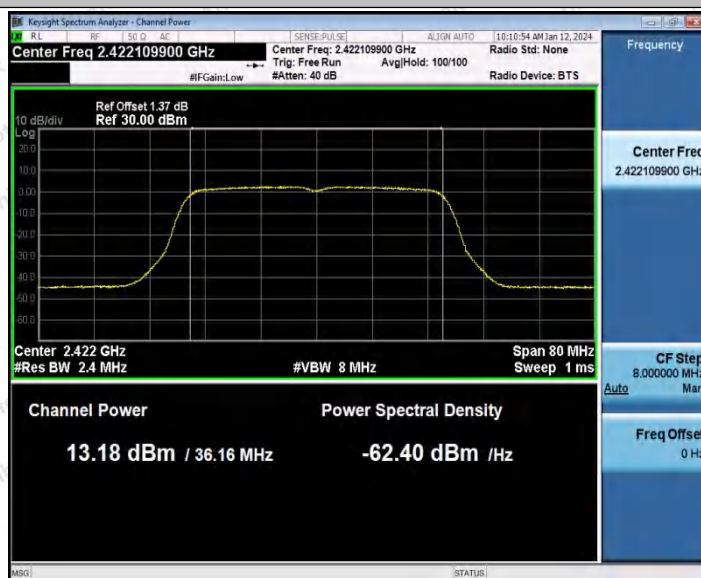




11N40SISO_Ant1_2422



11N40SISO_Ant2_2422



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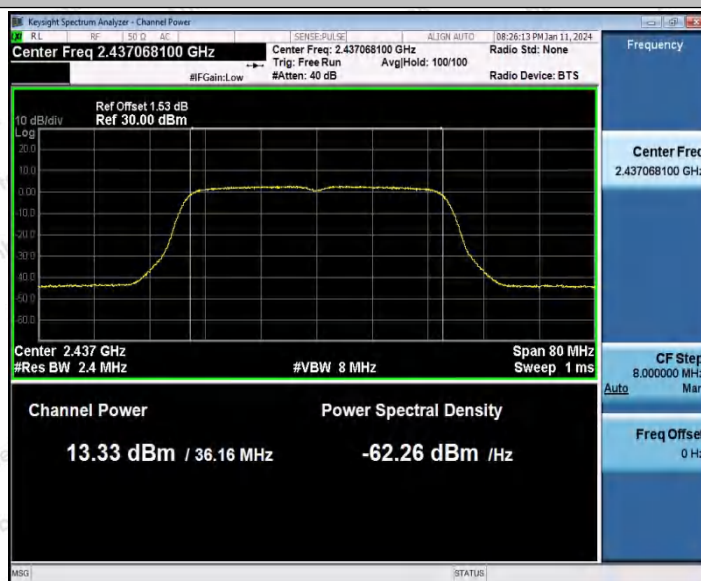
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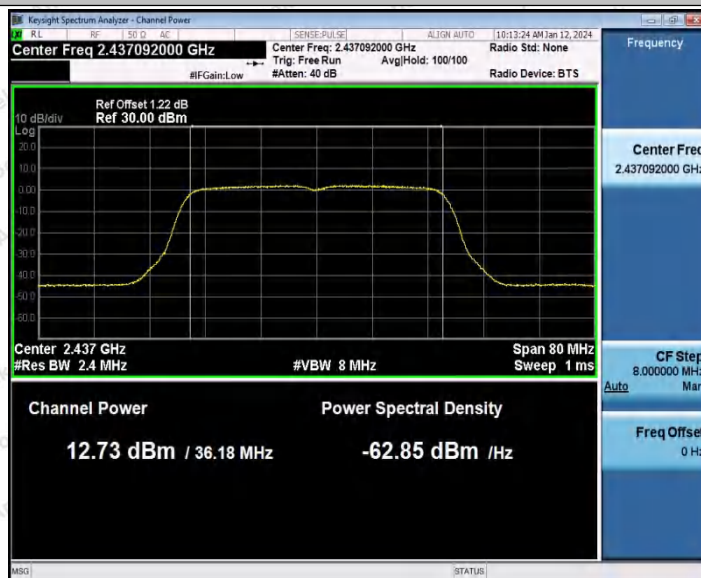
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11N40SISO_Ant1_2437



11N40SISO_Ant2_2437



11N40SISO_Ant1_2452

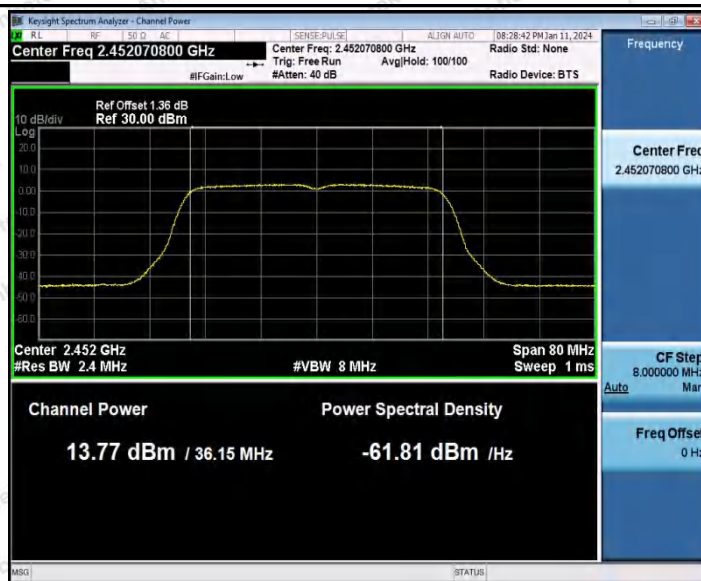
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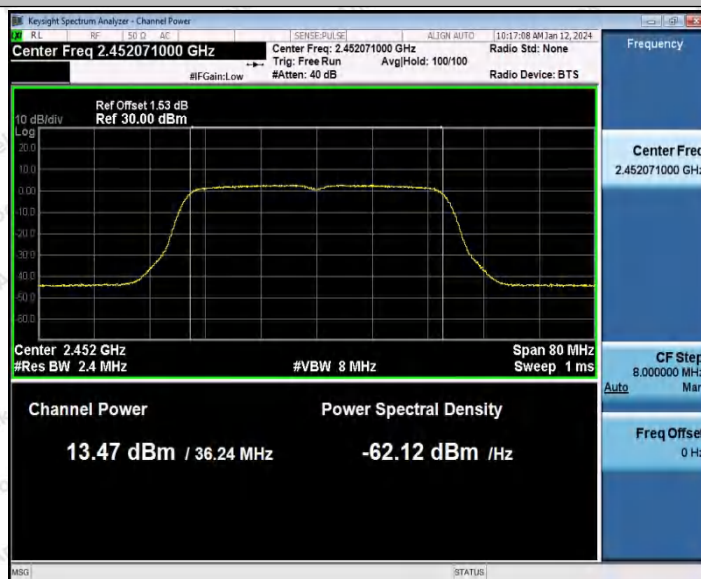


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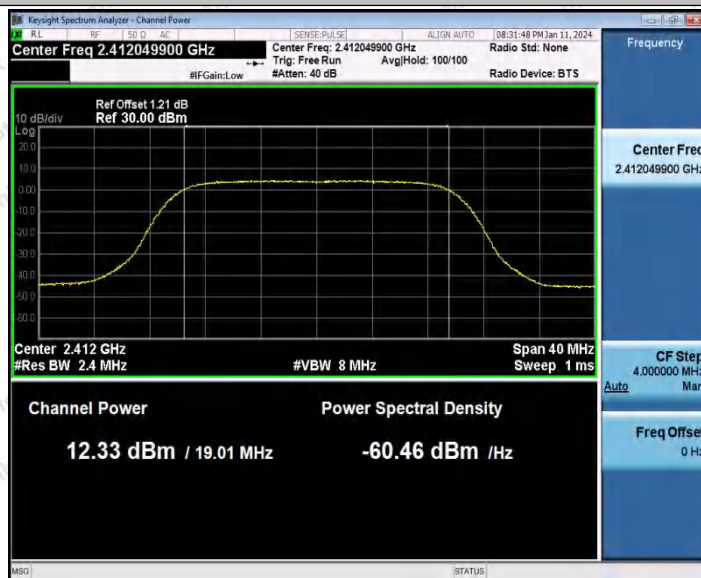




11N40SISO_Ant2_2452



11AX20SISO_Ant1_2412



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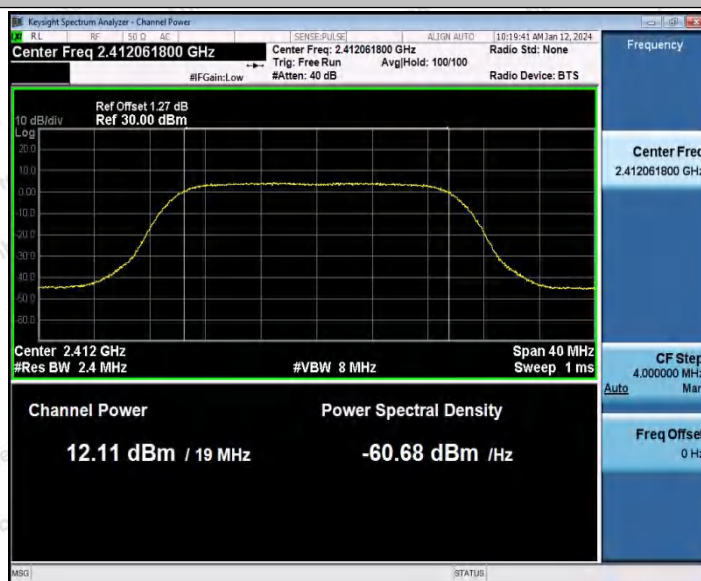
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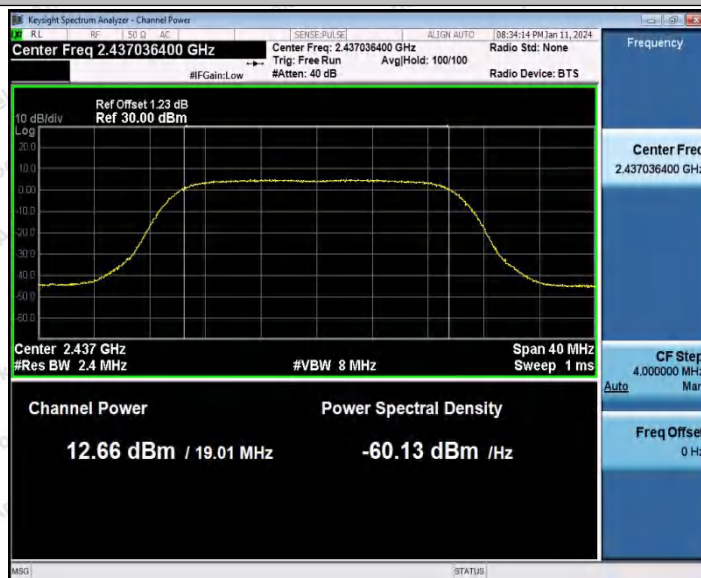
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11AX20SISO_Ant2_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant2_2437

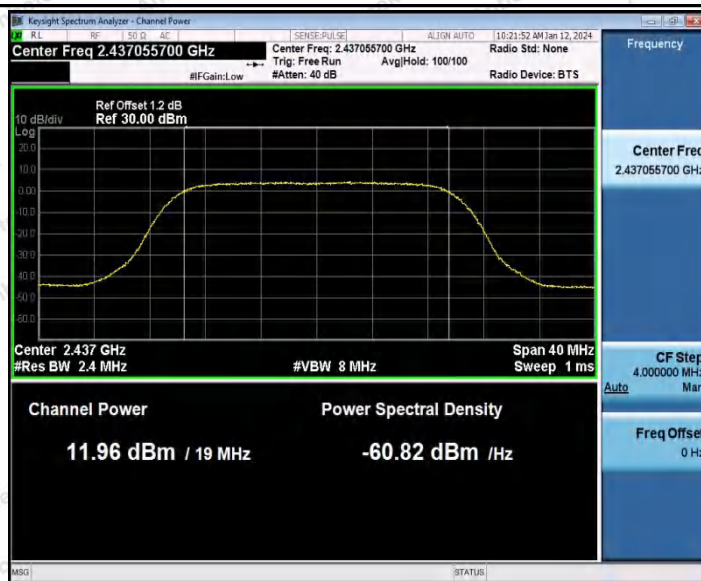
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

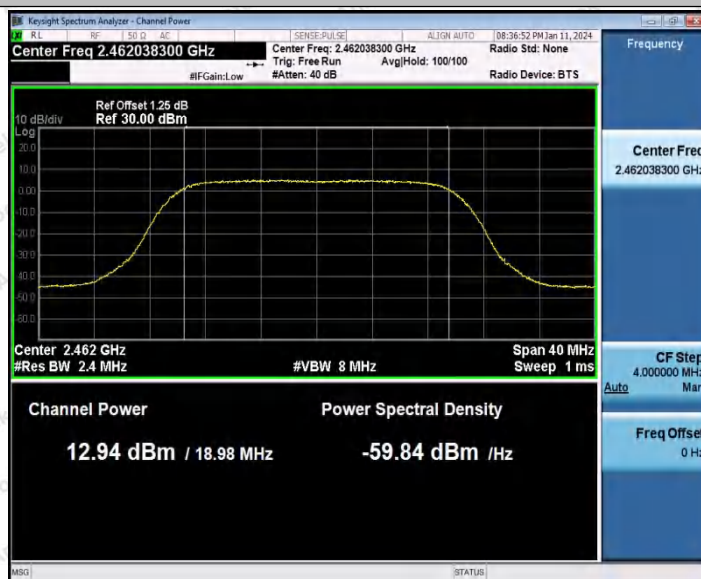


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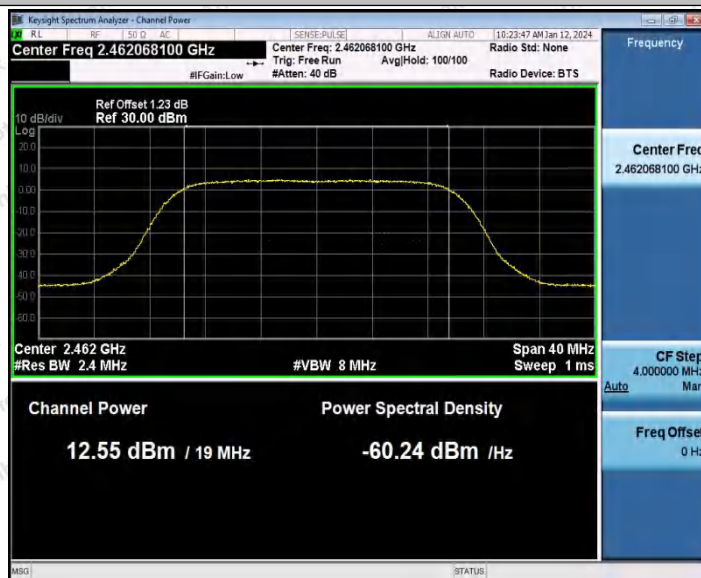




11AX20SISO_Ant1_2462



11AX20SISO_Ant2_2462



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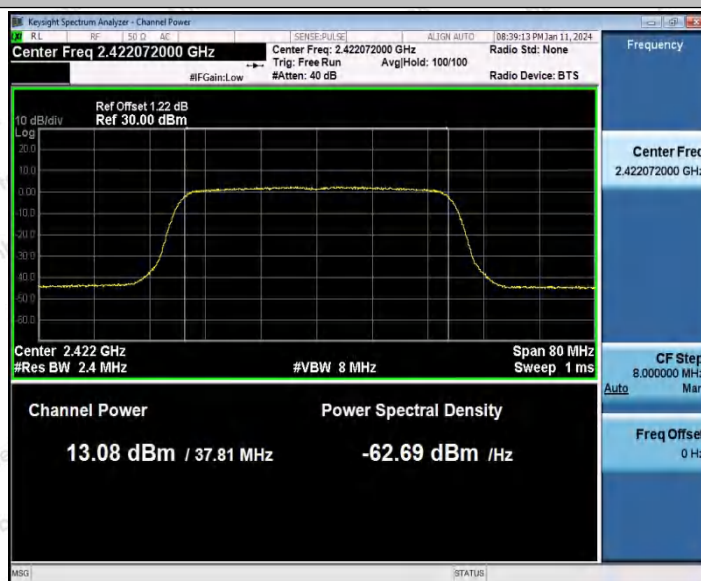
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11AX40SISO_Ant1_2422



11AX40SISO_Ant2_2422



11AX40SISO_Ant1_2437

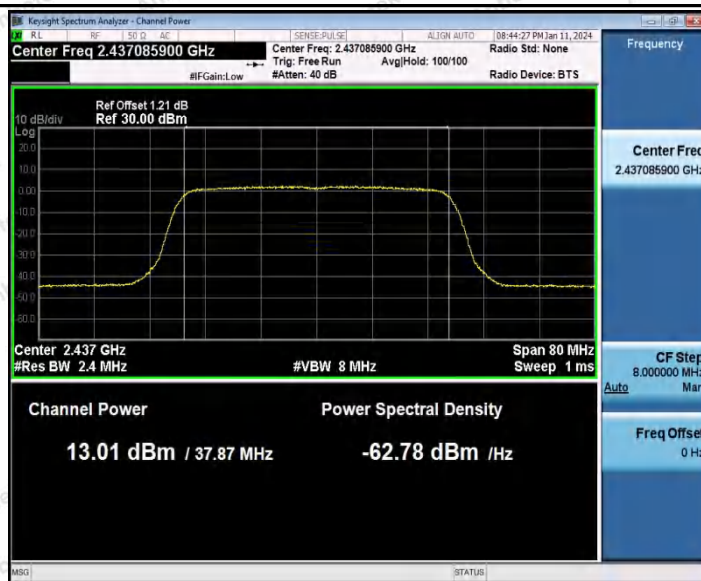
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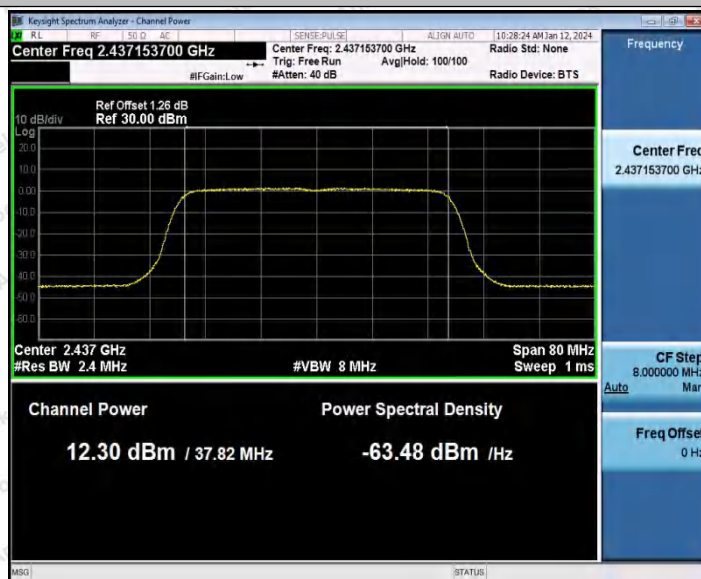


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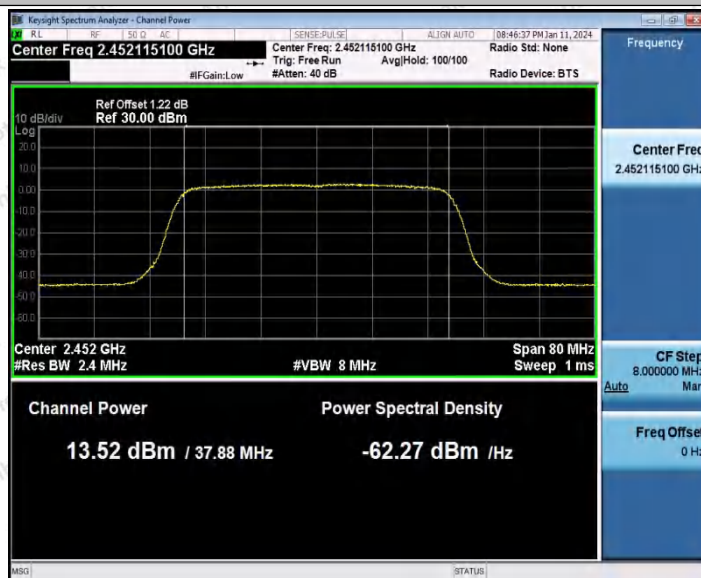




11AX40SISO_Ant2_2437



11AX40SISO_Ant1_2452



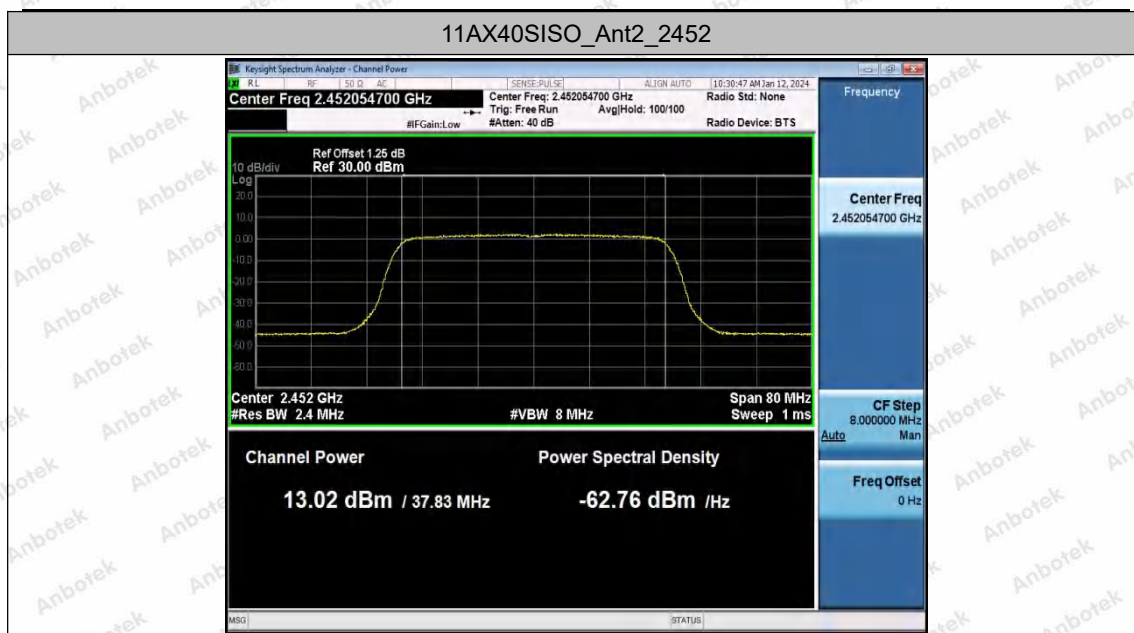
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.52	-17.52	≤8.00	PASS
	Ant2	2412	-7.67	-17.67	≤8.00	PASS
	Ant1	2437	-8.33	-18.33	≤8.00	PASS
	Ant2	2437	-7.2	-17.20	≤8.00	PASS
	Ant1	2462	-7.73	-17.73	≤8.00	PASS
	Ant2	2462	-8.06	-18.06	≤8.00	PASS
11G	Ant1	2412	-11.45	-21.45	≤8.00	PASS
	Ant2	2412	-11.05	-21.05	≤8.00	PASS
	Ant1	2437	-10.42	-20.42	≤8.00	PASS
	Ant2	2437	-11.51	-21.51	≤8.00	PASS
	Ant1	2462	-11.06	-21.06	≤8.00	PASS
	Ant2	2462	-11.51	-21.51	≤8.00	PASS
11N20SISO	Ant1	2412	-11.44	-21.44	≤8.00	PASS
	Ant2	2412	-12.43	-22.43	≤8.00	PASS
	Ant1	2437	-11.80	-21.80	≤8.00	PASS
	Ant2	2437	-12.25	-22.25	≤8.00	PASS
	Ant1	2462	-11.72	-21.72	≤8.00	PASS
	Ant2	2462	-11.58	-21.58	≤8.00	PASS
11N40SISO	Ant1	2422	-13.86	-23.86	≤8.00	PASS
	Ant2	2422	-14.28	-24.28	≤8.00	PASS
	Ant1	2437	-13.21	-23.21	≤8.00	PASS
	Ant2	2437	-14.67	-24.67	≤8.00	PASS
	Ant1	2452	-13.77	-23.77	≤8.00	PASS
	Ant2	2452	-14.07	-24.07	≤8.00	PASS
11AX20SISO	Ant1	2412	-13.71	-23.71	≤8.00	PASS
	Ant2	2412	-13.58	-23.58	≤8.00	PASS
	Ant1	2437	-13.21	-23.21	≤8.00	PASS
	Ant2	2437	-14.03	-24.03	≤8.00	PASS
	Ant1	2462	-12.83	-22.83	≤8.00	PASS
	Ant2	2462	-13.26	-23.26	≤8.00	PASS
11AX40SISO	Ant1	2422	-16.00	-26.00	≤8.00	PASS
	Ant2	2422	-16.16	-26.16	≤8.00	PASS
	Ant1	2437	-15.64	-25.64	≤8.00	PASS
	Ant2	2437	-16.61	-26.61	≤8.00	PASS
	Ant1	2452	-15.56	-25.56	≤8.00	PASS
	Ant2	2452	-15.87	-25.87	≤8.00	PASS



Note:

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

MIMO

TestMode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]
11N20SISO	2412	-18.90	≤ 6.15
	2437	-19.01	≤ 6.15
	2462	-18.64	≤ 6.15
11N40SISO	2422	-21.05	≤ 6.15
	2437	-20.87	≤ 6.15
	2452	-20.91	≤ 6.15
11AX20SISO	2412	-20.63	≤ 6.15
	2437	-20.59	≤ 6.15
	2462	-20.03	≤ 6.15
11AX40SISO	2422	-23.07	≤ 6.15
	2437	-23.09	≤ 6.15
	2452	-22.70	≤ 6.15

1. As Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$ dBi=7.85>6dBi,
so limit=8-(7.85-6.00)=6.15dBm.
2. NOTE: MIMO= $10 \cdot \log((10^{ANT1/10} + 10^{ANT2/10}))$



Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437

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11B_Ant2_2437



11B_Ant1_2462



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11B_Ant2_2462



11G_Ant1_2412



11G_Ant2_2412

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11G_Ant1_2437



11G_Ant2_2437

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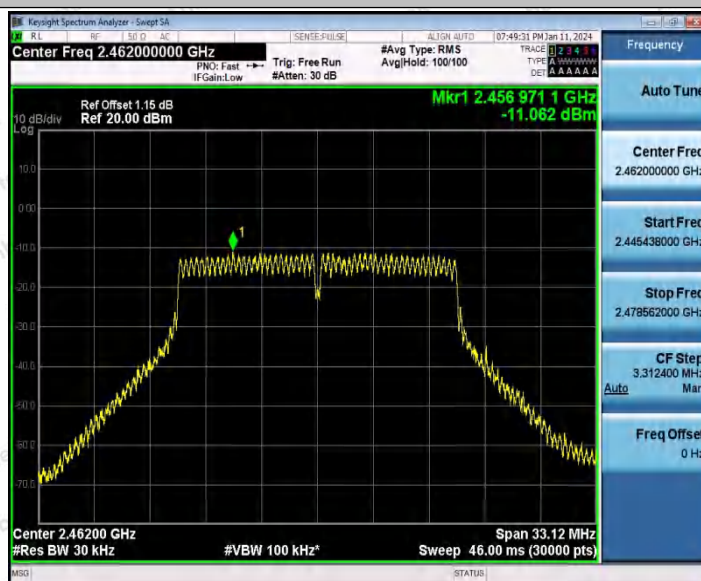
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11G_Ant1_2462



11G_Ant2_2462



11N20SISO_Ant1_2412

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11N20SISO_Ant2_2412



11N20SISO_Ant1_2437



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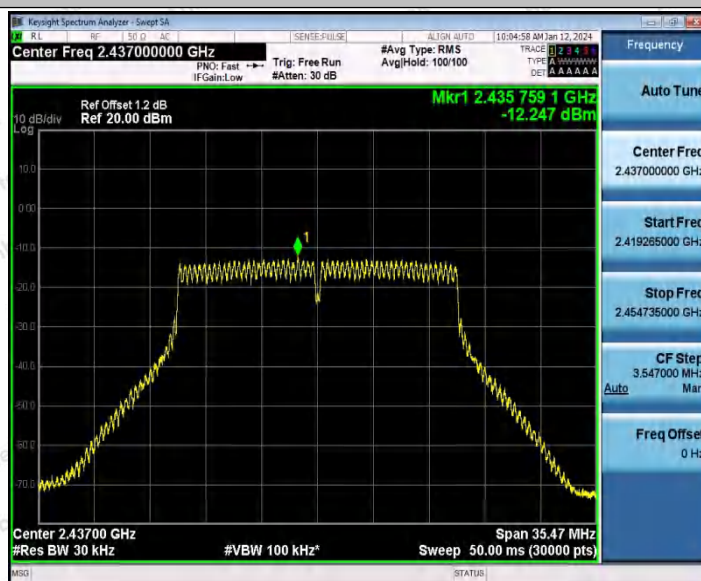
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11N20SISO_Ant2_2437



11N20SISO_Ant1_2462



11N20SISO_Ant2_2462

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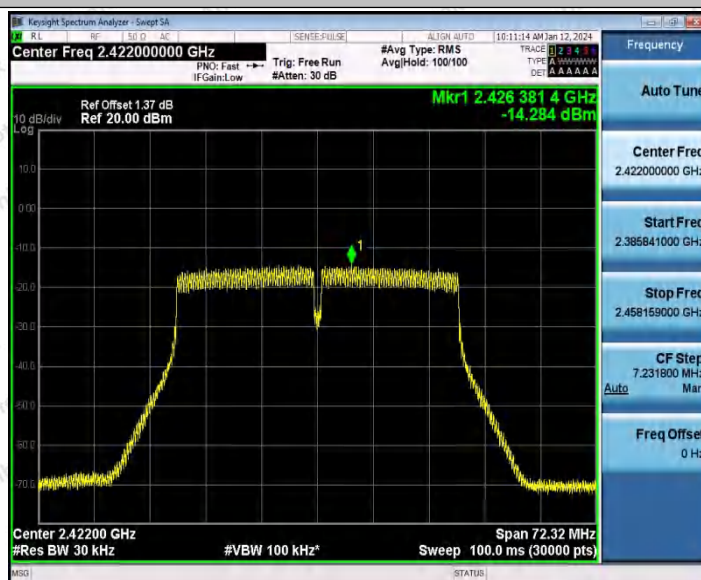




11N40SISO_Ant1_2422



11N40SISO_Ant2_2422



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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



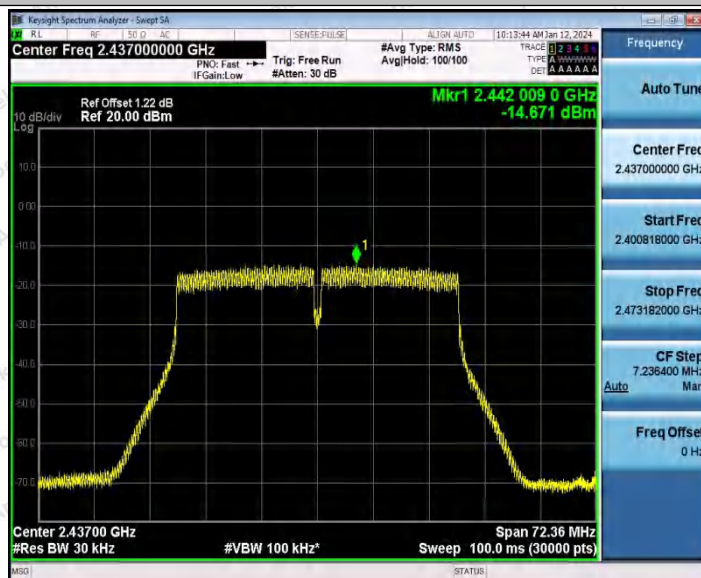
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11N40SISO_Ant1_2437



11N40SISO_Ant2_2437



11N40SISO_Ant1_2452

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11N40SISO_Ant2_2452



11AX20SISO_Ant1_2412



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



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11AX20SISO_Ant2_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant2_2437

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11AX20SISO_Ant1_2462



11AX20SISO_Ant2_2462



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



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11AX40SISO_Ant1_2422



11AX40SISO_Ant2_2422



11AX40SISO_Ant1_2437

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11AX40SISO_Ant2_2437



11AX40SISO_Ant1_2452



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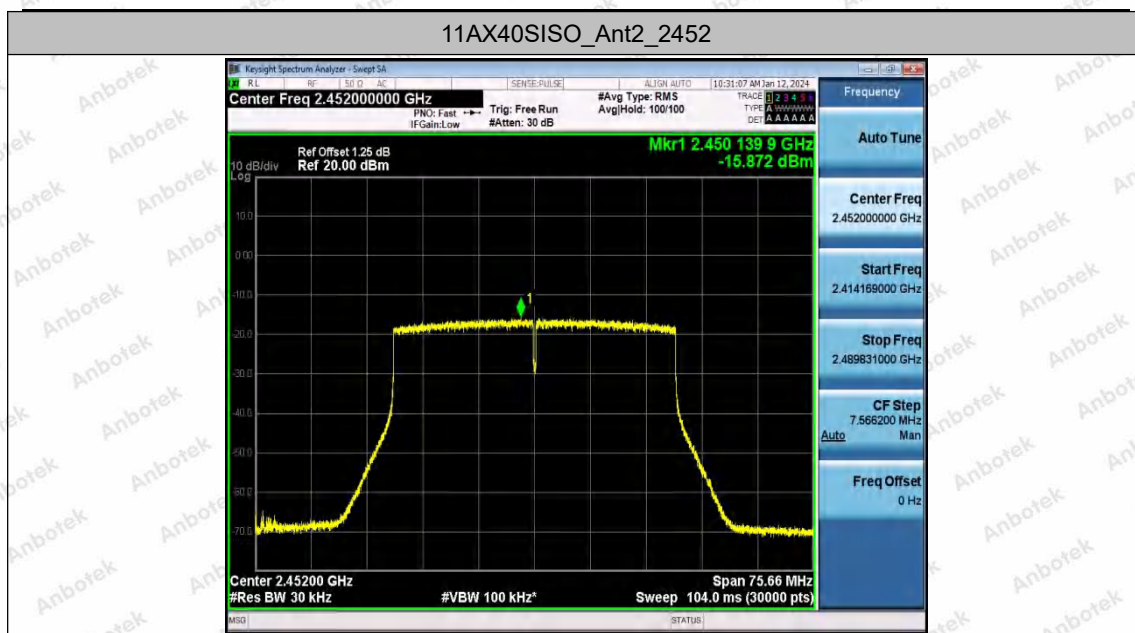


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Appendix E: Band edge measurements

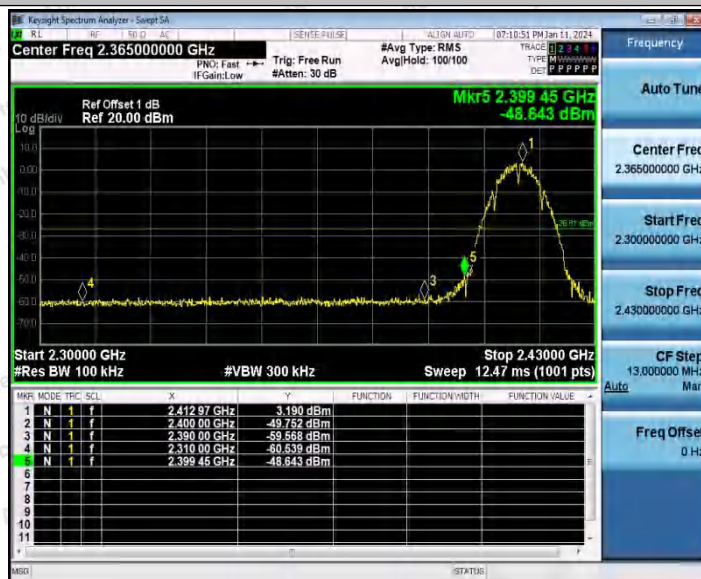
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.19	-48.64	≤-26.81	PASS
	Ant2	Low	2412	3.76	-47.24	≤-26.24	PASS
	Ant1	High	2462	4.56	-56.52	≤-25.45	PASS
	Ant2	High	2462	4.78	-56.99	≤-25.22	PASS
11G	Ant1	Low	2412	2.22	-35.53	≤-27.78	PASS
	Ant2	Low	2412	2.51	-35.56	≤-27.5	PASS
	Ant1	High	2462	2.39	-50.62	≤-27.61	PASS
	Ant2	High	2462	2.20	-52.87	≤-27.8	PASS
11N20SISO	Ant1	Low	2412	1.52	-33.85	≤-28.48	PASS
	Ant2	Low	2412	1.64	-34.85	≤-28.36	PASS
	Ant1	High	2462	1.27	-56.64	≤-28.73	PASS
	Ant2	High	2462	1.42	-55.94	≤-28.58	PASS
11N40SISO	Ant1	Low	2422	-1.98	-36.46	≤-31.98	PASS
	Ant2	Low	2422	-2.88	-36.14	≤-32.88	PASS
	Ant1	High	2452	-1.20	-54.32	≤-31.2	PASS
	Ant2	High	2452	-0.47	-53.18	≤-30.47	PASS
11AX20SISO	Ant1	Low	2412	1.87	-33.8	≤-28.13	PASS
	Ant2	Low	2412	2.14	-33.3	≤-27.87	PASS
	Ant1	High	2462	2.75	-56.68	≤-27.25	PASS
	Ant2	High	2462	1.40	-56.17	≤-28.6	PASS
11AX40SISO	Ant1	Low	2422	-1.34	-36.37	≤-31.34	PASS
	Ant2	Low	2422	-0.86	-37.38	≤-30.86	PASS
	Ant1	High	2452	-1.28	-52.78	≤-31.28	PASS
	Ant2	High	2452	-1.21	-53.6	≤-31.21	PASS

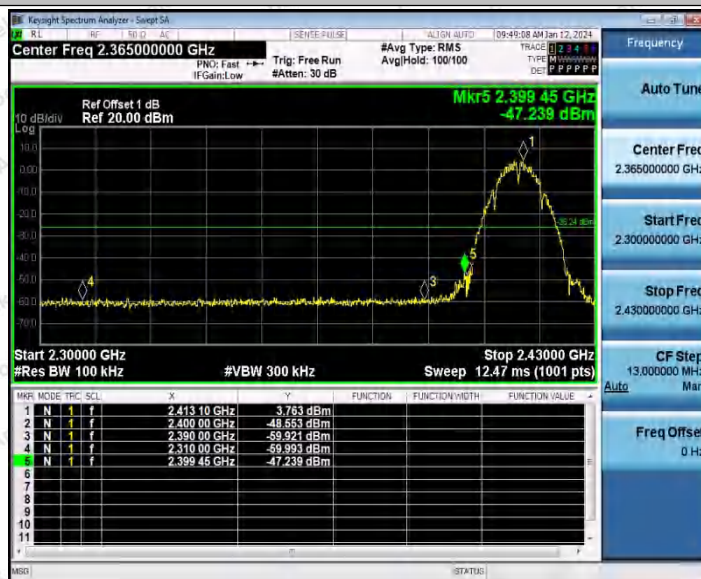


Test Graphs

11B_Ant1_Low_2412



11B_Ant2_Low_2412



11B_Ant1_High_2462

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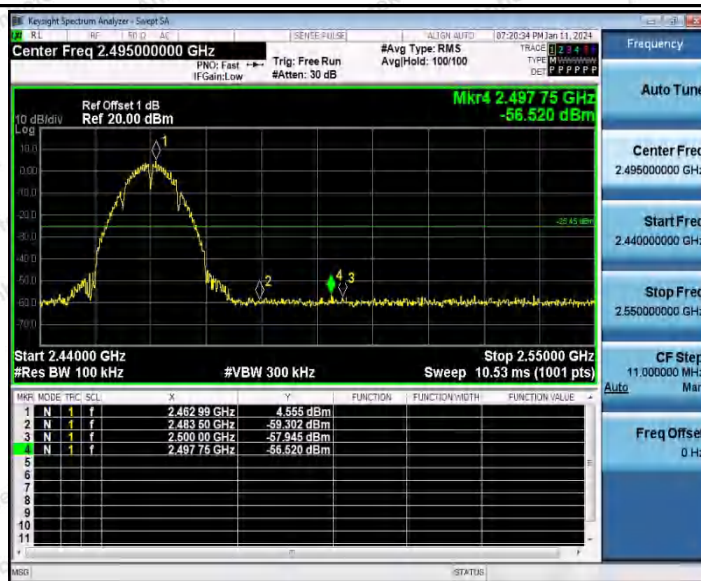


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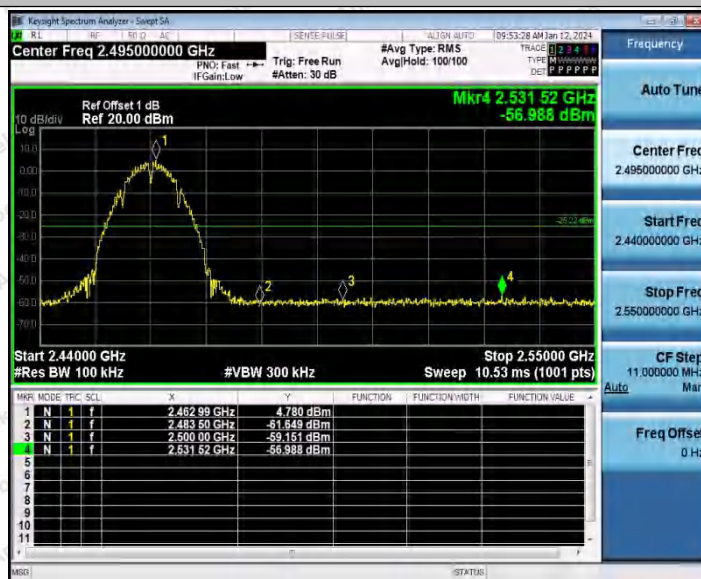
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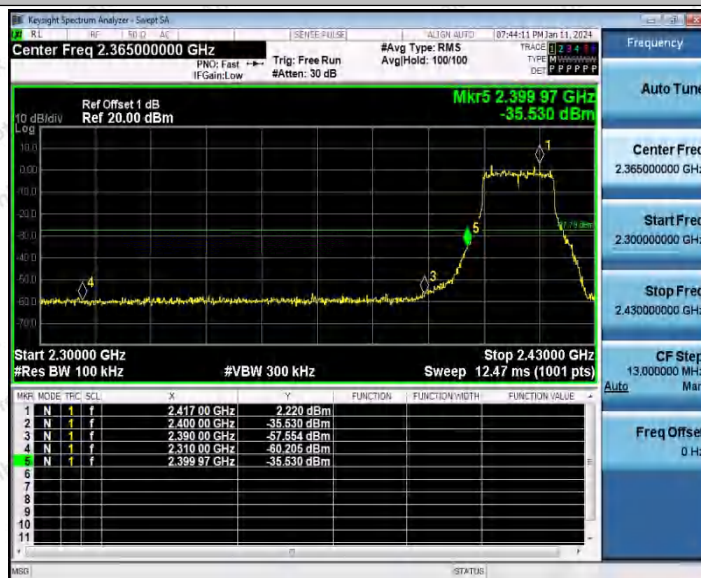




11B_Ant2_High_2462



11G_Ant1_Low_2412



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