

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.480	2416.520	0.5	PASS
	Ant2	2412	8.560	2407.960	2416.520	0.5	PASS
	Ant1	2437	9.080	2432.440	2441.520	0.5	PASS
	Ant2	2437	8.560	2432.920	2441.480	0.5	PASS
	Ant1	2462	9.080	2457.440	2466.520	0.5	PASS
	Ant2	2462	8.560	2457.480	2466.040	0.5	PASS
11G	Ant1	2412	15.080	2404.440	2419.520	0.5	PASS
	Ant2	2412	15.120	2404.440	2419.560	0.5	PASS
	Ant1	2437	15.120	2429.440	2444.560	0.5	PASS
	Ant2	2437	15.000	2429.480	2444.480	0.5	PASS
	Ant1	2462	15.080	2454.440	2469.520	0.5	PASS
	Ant2	2462	15.040	2454.480	2469.520	0.5	PASS
11N20MIMO	Ant1	2412	15.120	2404.440	2419.560	0.5	PASS
	Ant2	2412	16.280	2403.840	2420.120	0.5	PASS
	Ant1	2437	15.080	2429.440	2444.520	0.5	PASS
	Ant2	2437	15.680	2428.840	2444.520	0.5	PASS
	Ant1	2462	15.120	2454.440	2469.560	0.5	PASS
	Ant2	2462	15.680	2453.840	2469.520	0.5	PASS
11N40MIMO	Ant1	2422	35.120	2404.400	2439.520	0.5	PASS
	Ant2	2422	35.120	2404.400	2439.520	0.5	PASS
	Ant1	2437	35.120	2419.400	2454.520	0.5	PASS
	Ant2	2437	35.040	2419.480	2454.520	0.5	PASS
	Ant1	2452	35.120	2434.400	2469.520	0.5	PASS
	Ant2	2452	35.120	2434.400	2469.520	0.5	PASS



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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



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11G_Ant2_2412



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11G_Ant2_2462



11N20MIMO_Ant1_2412

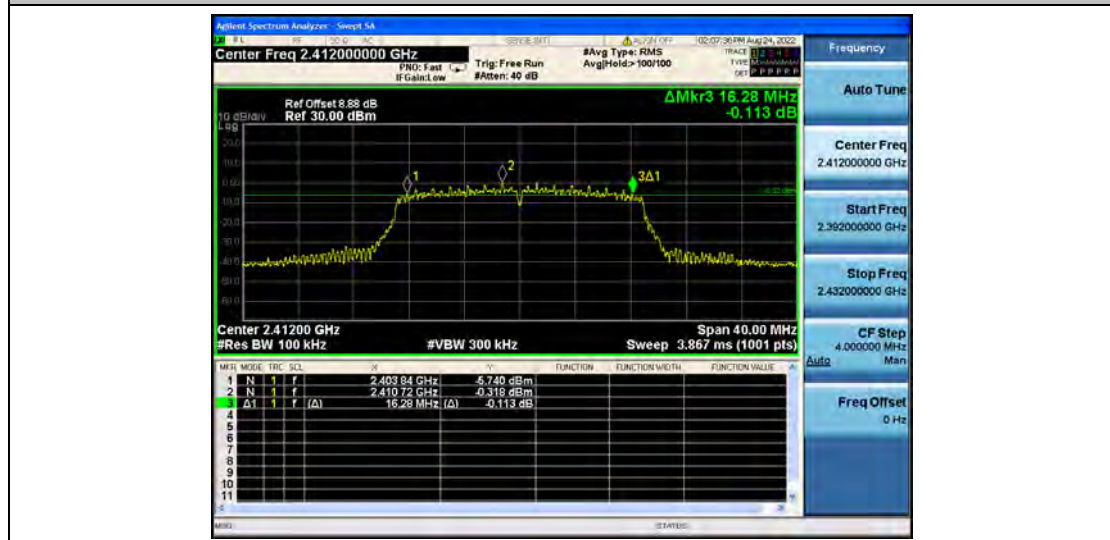


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11N20MIMO_Ant2_2412



11N20MIMO_Ant1_2437

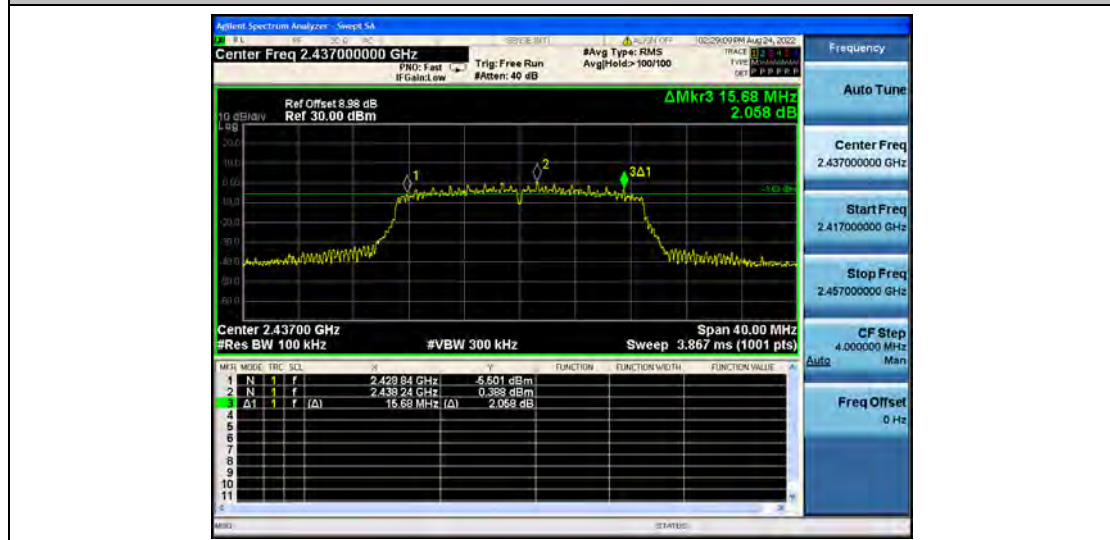


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11N20MIMO_Ant2_2437



11N20MIMO_Ant1_2462

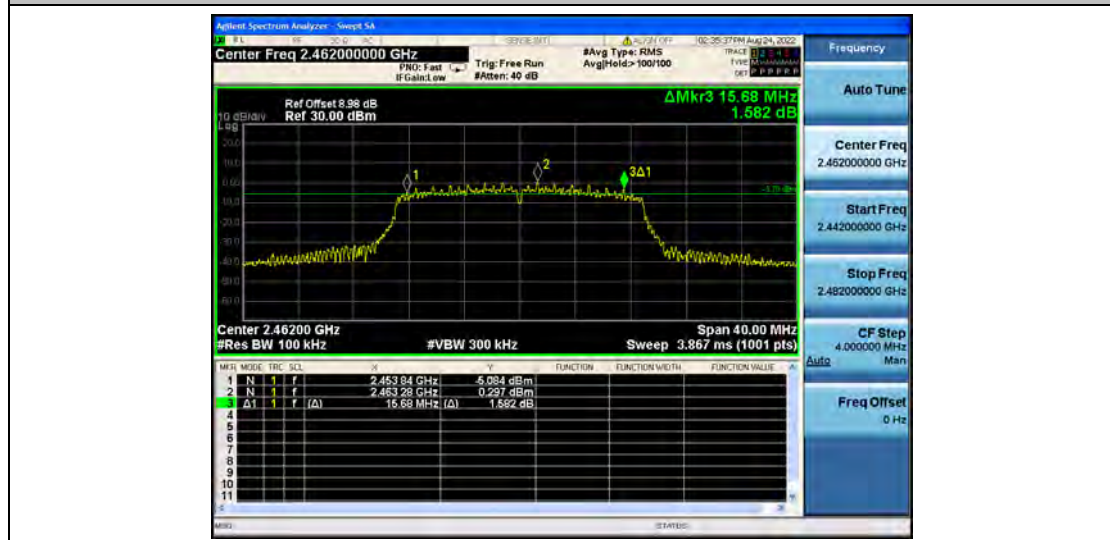


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11N20MIMO_Ant2_2462

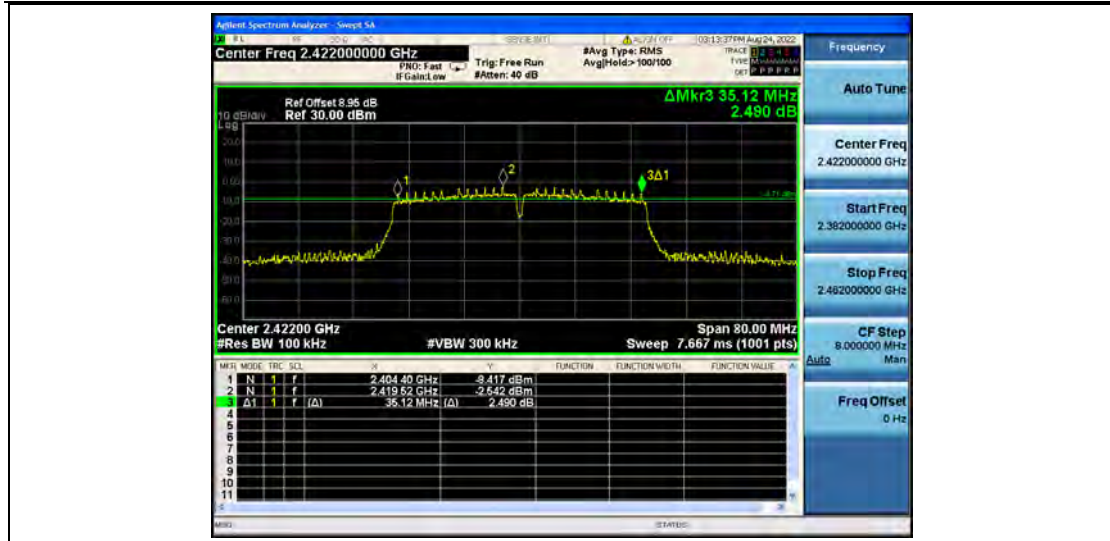


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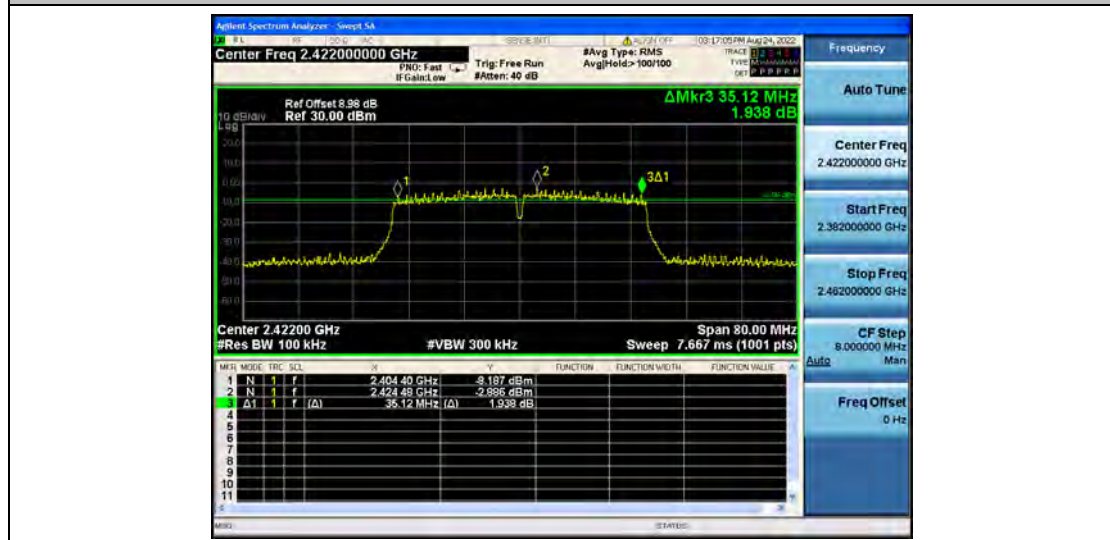


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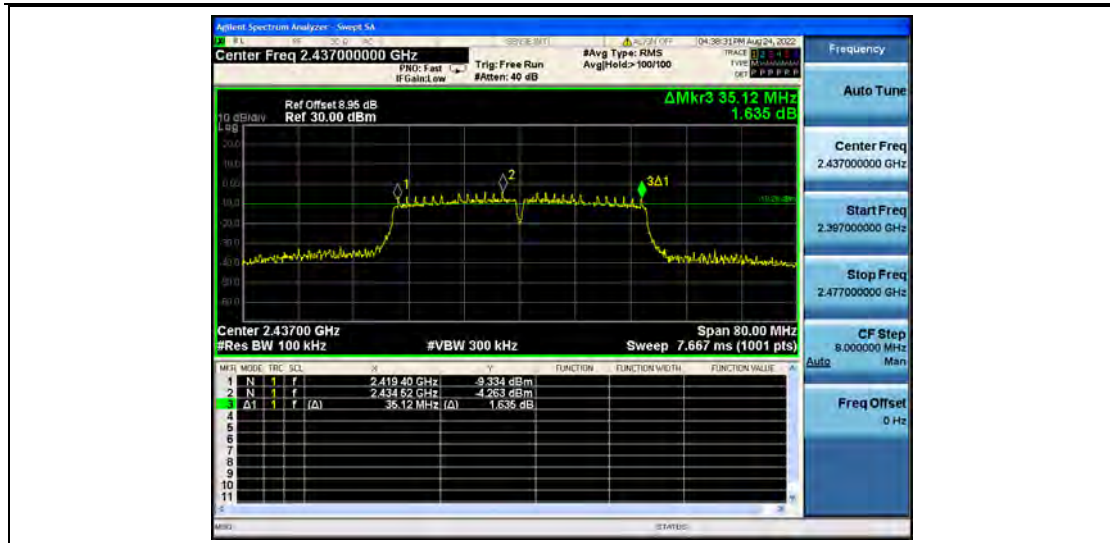


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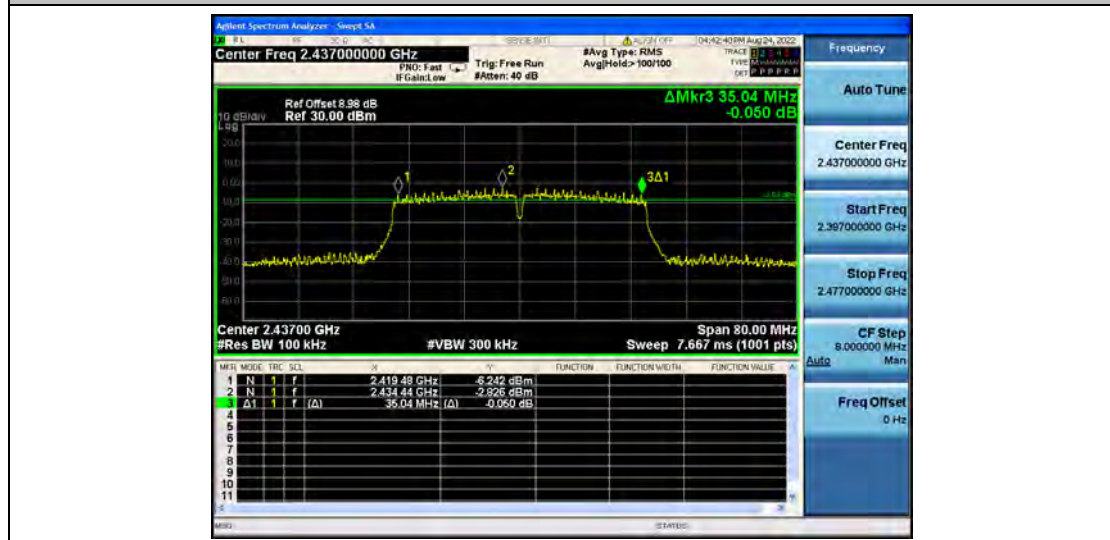


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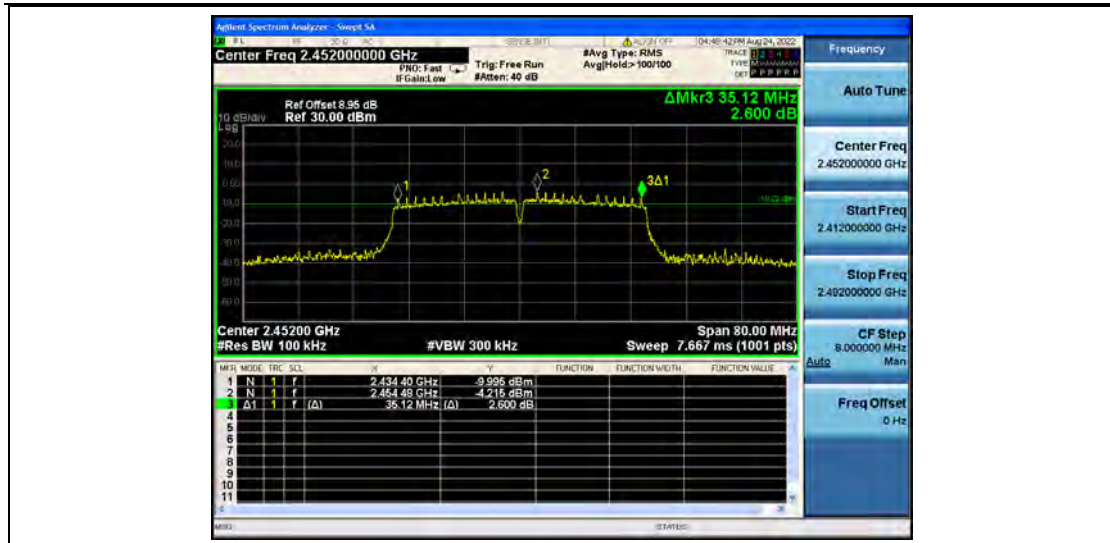


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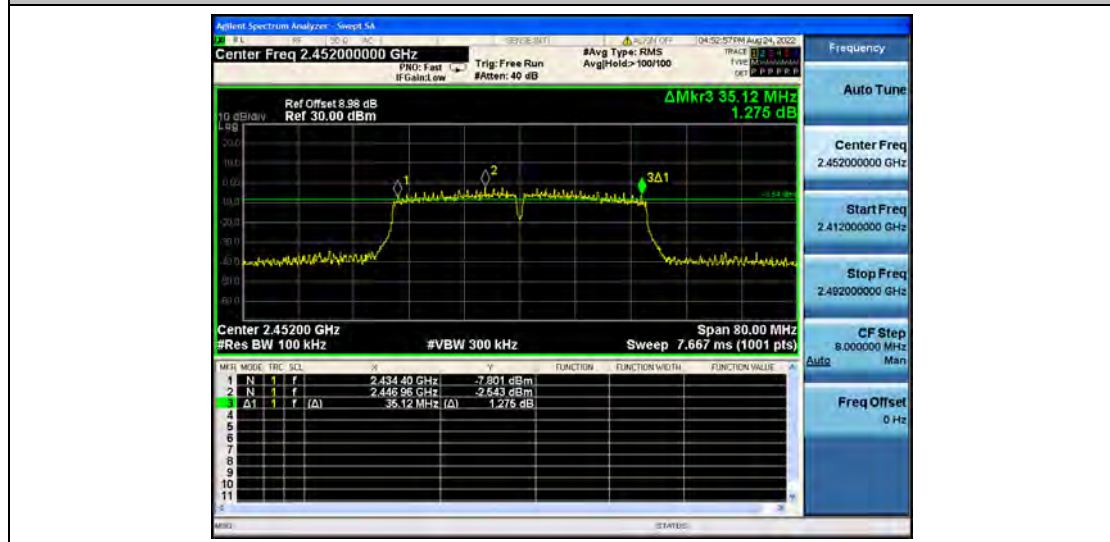


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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.736	2405.1109	2418.8469	---	---
	Ant2	2412	13.493	2405.2920	2418.7850	---	---
	Ant1	2437	13.743	2430.1171	2443.8601	---	---
	Ant2	2437	13.532	2430.2636	2443.7956	---	---
	Ant1	2462	13.771	2455.0691	2468.8401	---	---
	Ant2	2462	13.608	2455.1635	2468.7715	---	---
11G	Ant1	2412	17.091	2403.419	2420.510	---	---
	Ant2	2412	16.995	2403.469	2420.464	---	---
	Ant1	2437	17.095	2428.402	2445.497	---	---
	Ant2	2437	17.055	2428.429	2445.484	---	---
	Ant1	2462	17.089	2453.388	2470.477	---	---
	Ant2	2462	17.033	2453.406	2470.439	---	---
11N20MIMO	Ant1	2412	17.823	2403.070	2420.893	---	---
	Ant2	2412	17.549	2403.221	2420.770	---	---
	Ant1	2437	17.857	2428.059	2445.916	---	---
	Ant2	2437	17.576	2428.203	2445.779	---	---
	Ant1	2462	17.869	2453.017	2470.886	---	---
	Ant2	2462	17.557	2453.201	2470.758	---	---
11N40MIMO	Ant1	2422	36.428	2403.770	2440.198	---	---
	Ant2	2422	36.452	2403.804	2440.256	---	---
	Ant1	2437	36.540	2418.639	2455.179	---	---
	Ant2	2437	36.393	2418.803	2455.196	---	---
	Ant1	2452	36.493	2433.706	2470.199	---	---
	Ant2	2452	36.424	2433.769	2470.193	---	---



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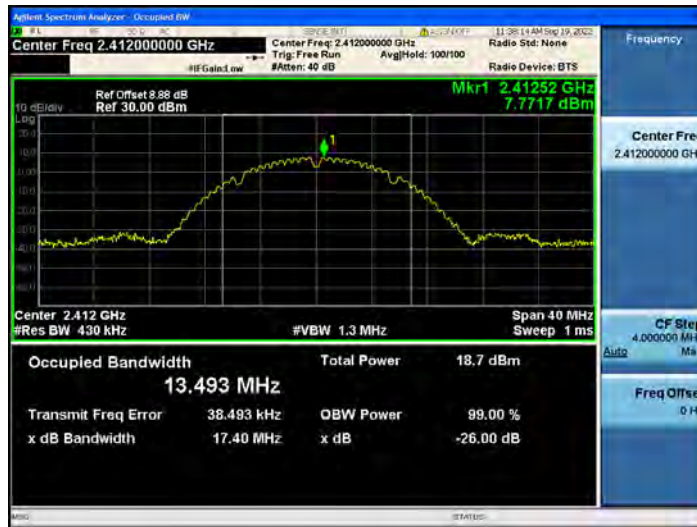
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Test Graphs

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



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11G_Ant2_2412



11G_Ant1_2437



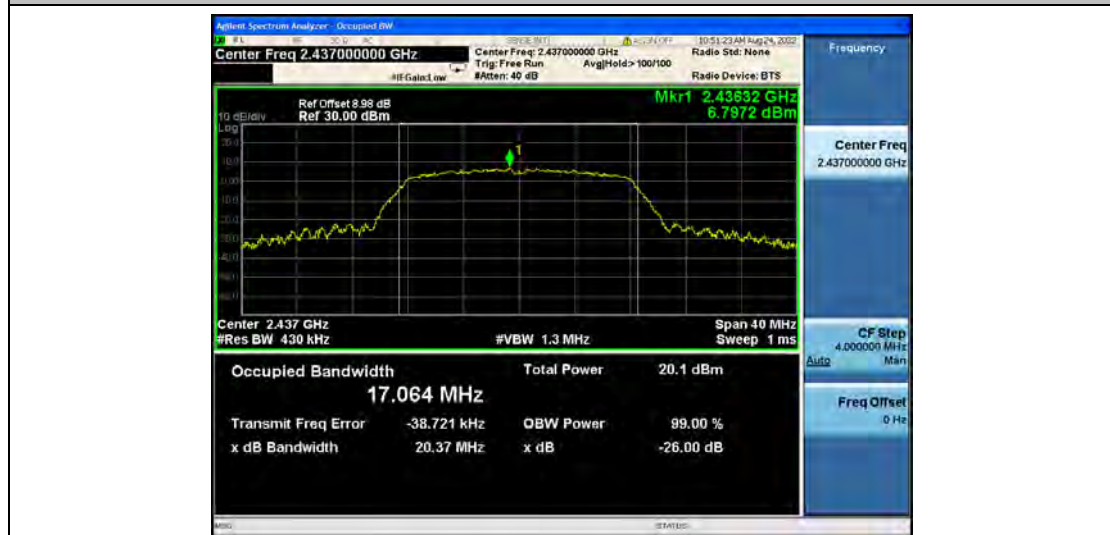
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11G_Ant2_2437



11G_Ant1_2462



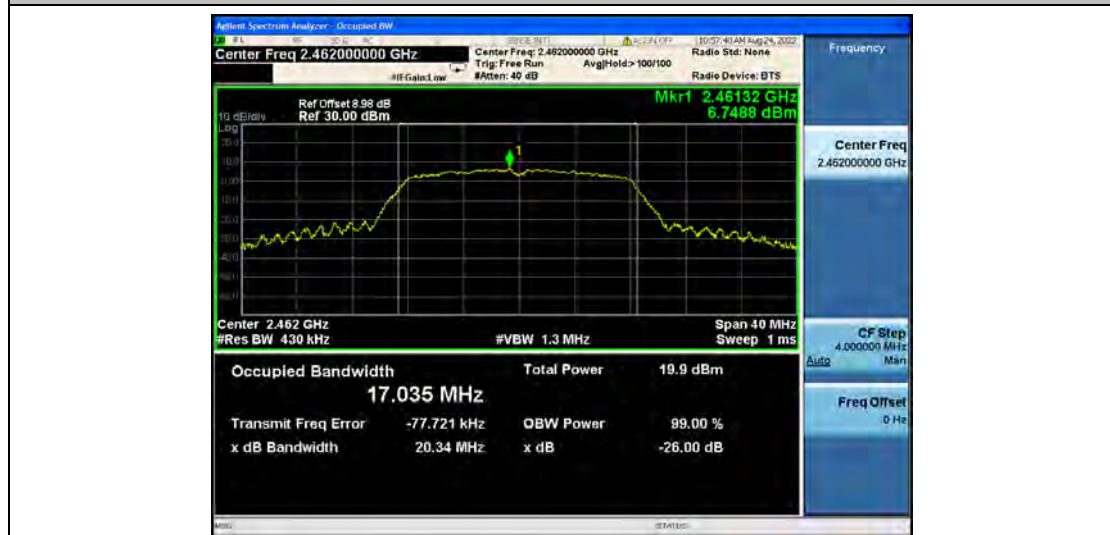
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11G_Ant2_2462



11N20MIMO_Ant1_2412



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11N20MIMO_Ant2_2412



11N20MIMO_Ant1_2437



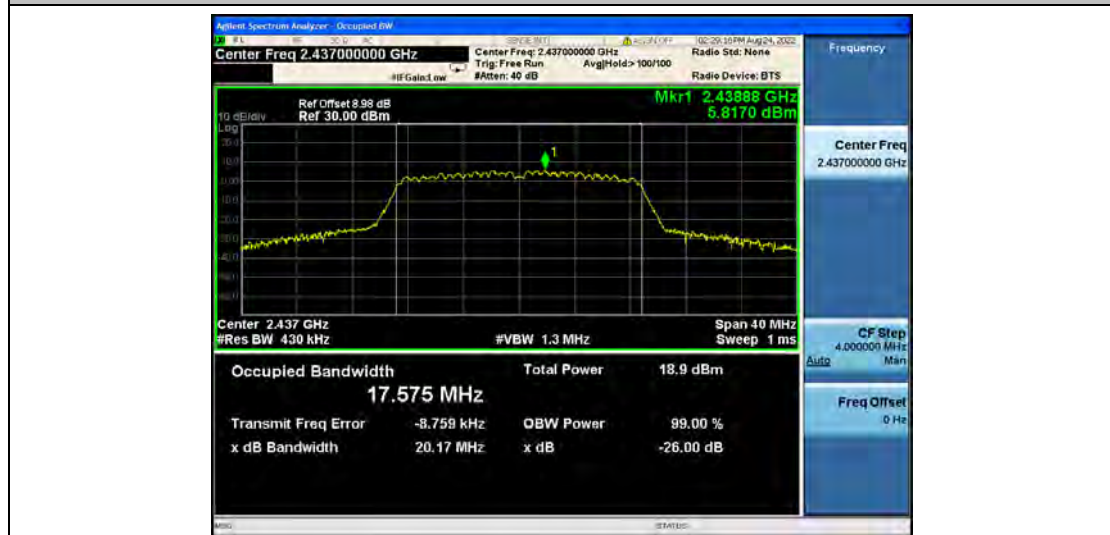
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11N20MIMO_Ant2_2437



11N20MIMO_Ant1_2462



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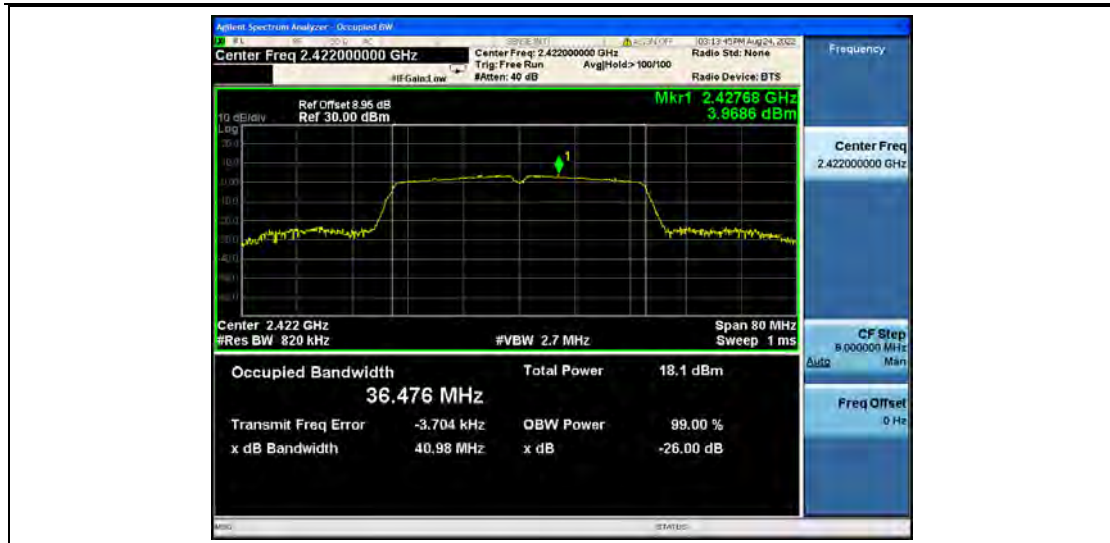


11N40MIMO_Ant1_2422



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11N40MIMO_Ant2_2422



11N40MIMO_Ant1_2437

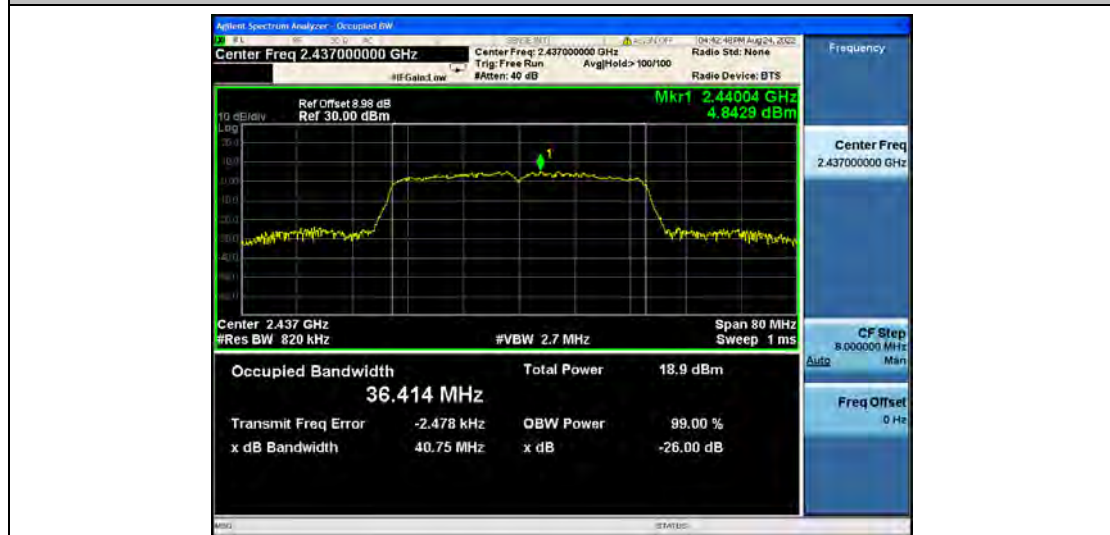


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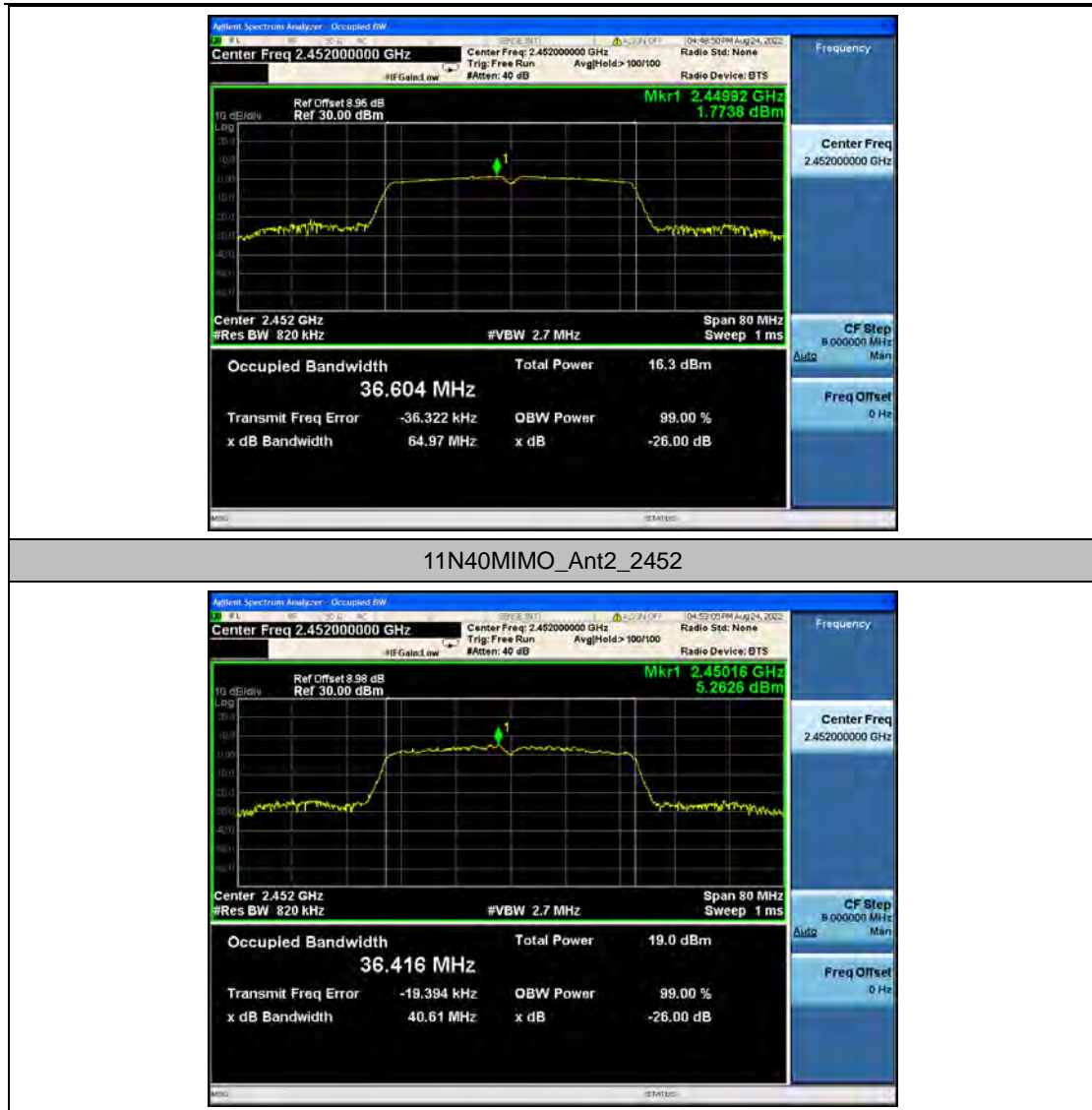


11N40MIMO_Ant1_2452



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Appendix C: Maximum conducted output power

Test Result

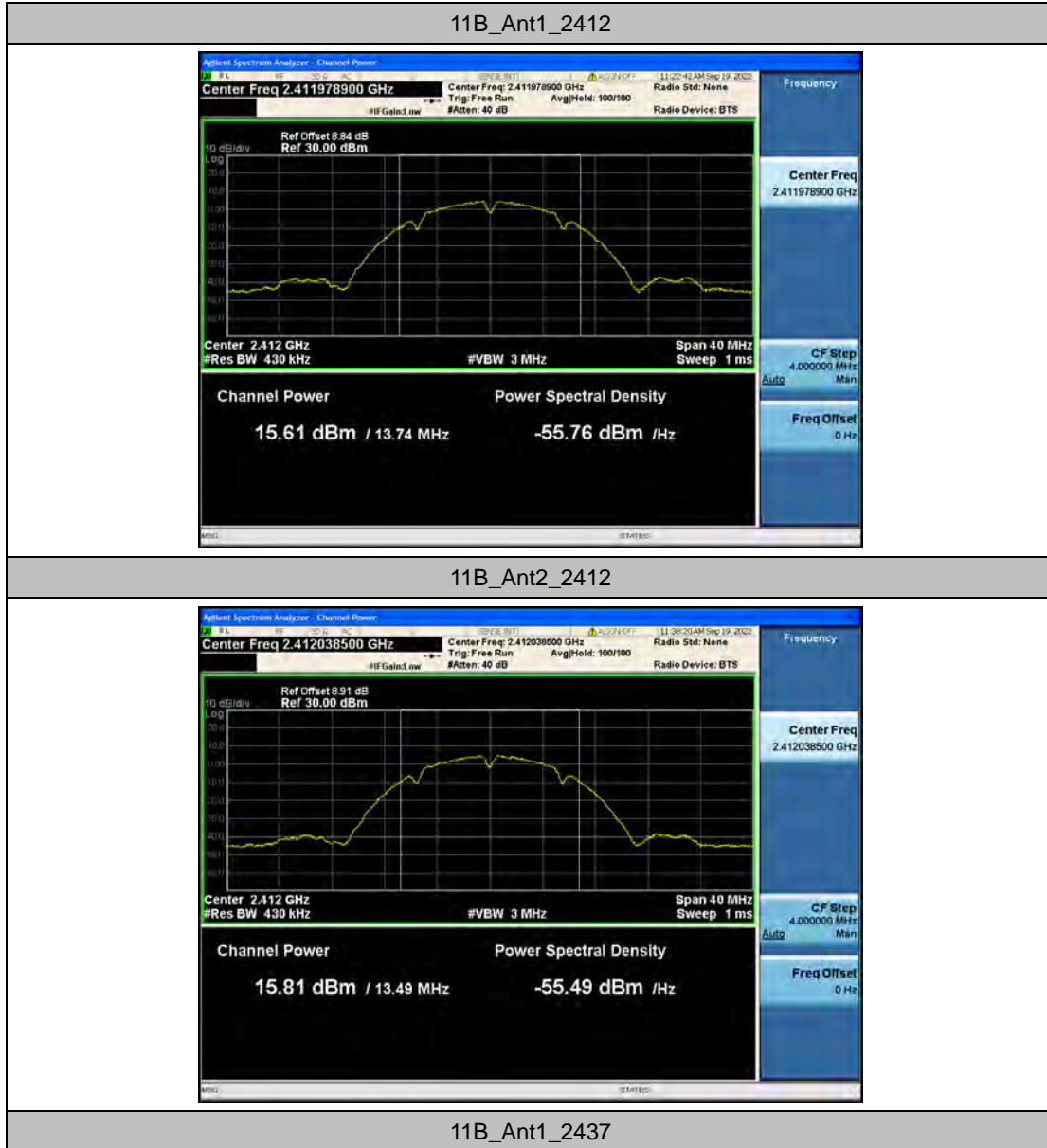
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
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	Ant2	2412	15.81	≤30.00	PASS
	Ant1	2437	15.92	≤30.00	PASS
	Ant2	2437	16.19	≤30.00	PASS
	Ant1	2462	15.98	≤30.00	PASS
	Ant2	2462	16.32	≤30.00	PASS
11G	Ant1	2412	13.31	≤30.00	PASS
	Ant2	2412	12.80	≤30.00	PASS
	Ant1	2437	13.84	≤30.00	PASS
	Ant2	2437	13.22	≤30.00	PASS
	Ant1	2462	13.88	≤30.00	PASS
	Ant2	2462	12.97	≤30.00	PASS
11N20MIMO	Ant1	2412	10.09	≤30.00	PASS
	Ant2	2412	10.26	≤30.00	PASS
	total	2412	13.19	≤30.00	PASS
	Ant1	2437	10.69	≤30.00	PASS
	Ant2	2437	10.51	≤30.00	PASS
	total	2437	13.61	≤30.00	PASS
	Ant1	2462	10.68	≤30.00	PASS
	Ant2	2462	10.56	≤30.00	PASS
	total	2462	13.63	≤30.00	PASS
11N40MIMO	Ant1	2422	10.77	≤30.00	PASS
	Ant2	2422	10.41	≤30.00	PASS
	total	2422	13.60	≤30.00	PASS
	Ant1	2437	9.09	≤30.00	PASS
	Ant2	2437	10.60	≤30.00	PASS
	total	2437	12.92	≤30.00	PASS
	Ant1	2452	9.07	≤30.00	PASS
	Ant2	2452	10.64	≤30.00	PASS
	total	2452	12.94	≤30.00	PASS



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Test Graphs



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11B_Ant2_2437



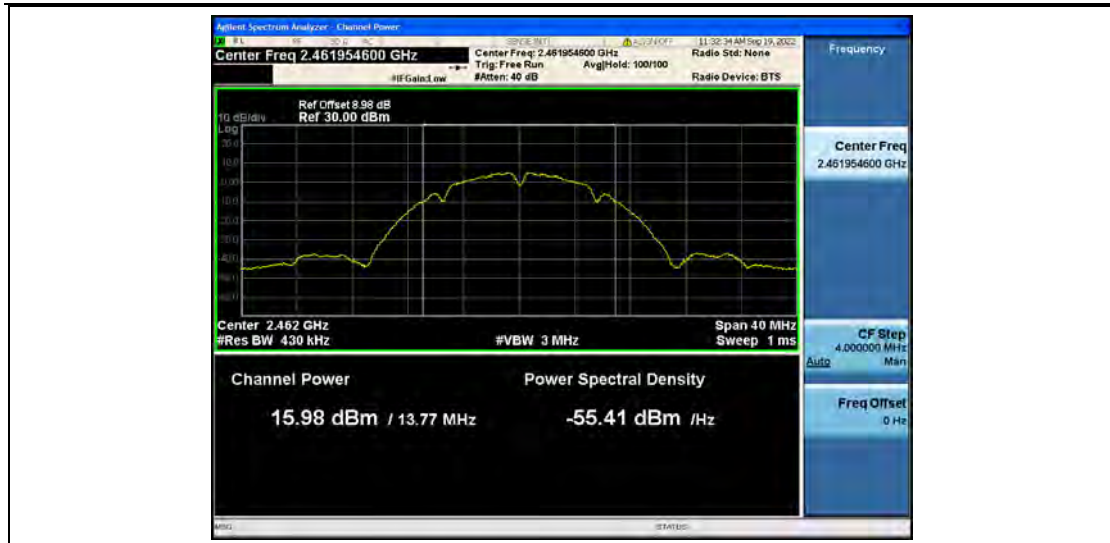
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11N40MIMO_Ant1_2422



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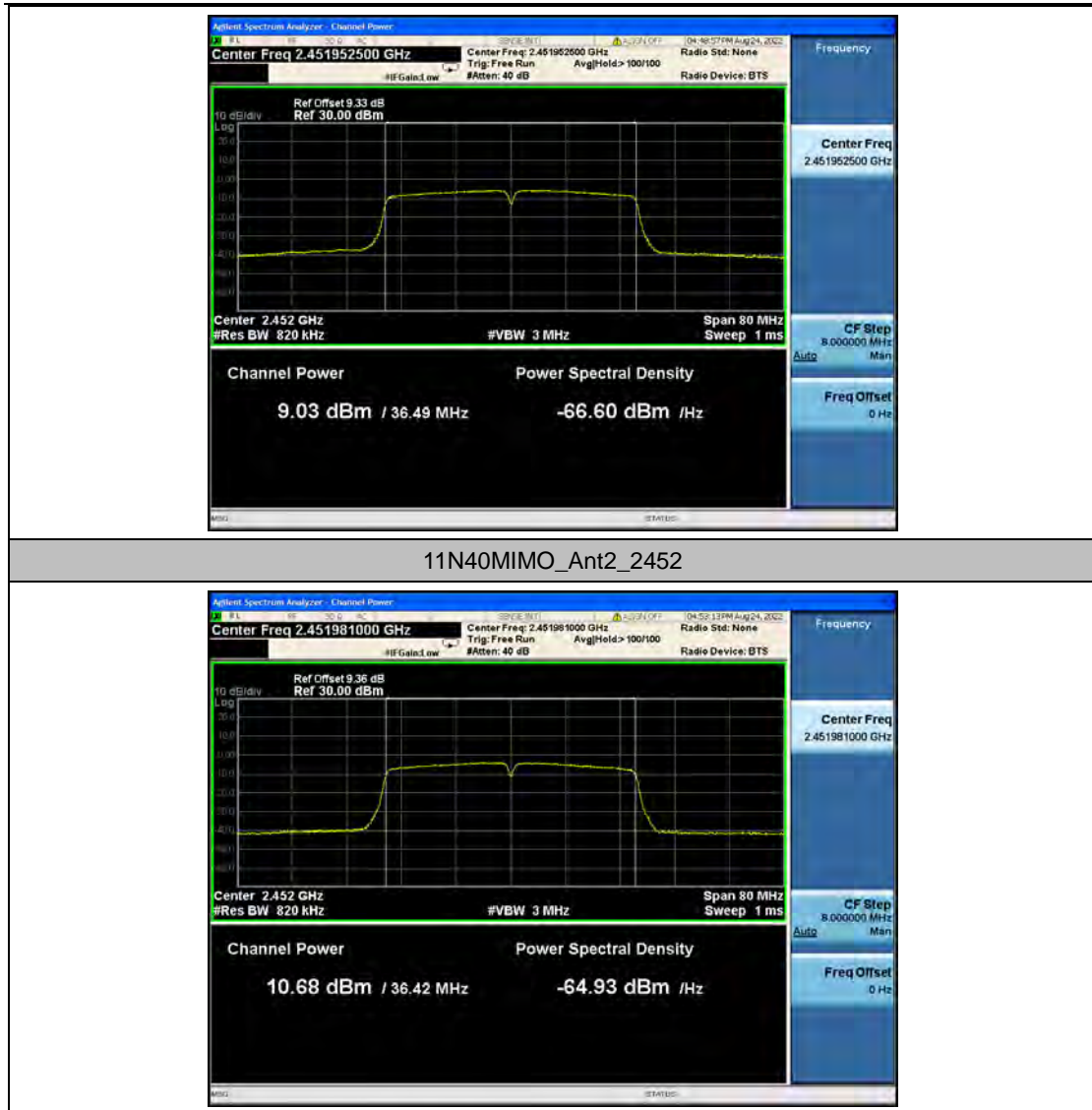


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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-16.53	≤8.00	PASS
	Ant2	2412	-16.16	≤8.00	PASS
	Ant1	2437	-16	≤8.00	PASS
	Ant2	2437	-9.04	≤8.00	PASS
	Ant1	2462	-16.05	≤8.00	PASS
	Ant2	2462	-15.74	≤8.00	PASS
11G	Ant1	2412	-20.11	≤8.00	PASS
	Ant2	2412	-19.6	≤8.00	PASS
	Ant1	2437	-20.17	≤8.00	PASS
	Ant2	2437	-19.06	≤8.00	PASS
	Ant1	2462	-20.37	≤8.00	PASS
	Ant2	2462	-19.55	≤8.00	PASS
11N20MIMO	Ant1	2412	-25.05	≤8.00	PASS
	Ant2	2412	-22.2	≤8.00	PASS
	total	2412	-20.38	≤8.00	PASS
	Ant1	2437	-24.37	≤8.00	PASS
	Ant2	2437	-22.09	≤8.00	PASS
	total	2437	-20.07	≤8.00	PASS
	Ant1	2462	-25.16	≤8.00	PASS
	Ant2	2462	-22.2	≤8.00	PASS
total	2462	-20.42	≤8.00	PASS	
11N40MIMO	Ant1	2422	-27.09	≤8.00	PASS
	Ant2	2422	-25.82	≤8.00	PASS
	total	2422	-23.40	≤8.00	PASS
	Ant1	2437	-27.65	≤8.00	PASS
	Ant2	2437	-25.63	≤8.00	PASS
	total	2437	-23.51	≤8.00	PASS
	Ant1	2452	-27.46	≤8.00	PASS
	Ant2	2452	-25.56	≤8.00	PASS
total	2452	-23.40	≤8.00	PASS	



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Test Graphs

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11B_Ant2_2412



11B_Ant1_2437



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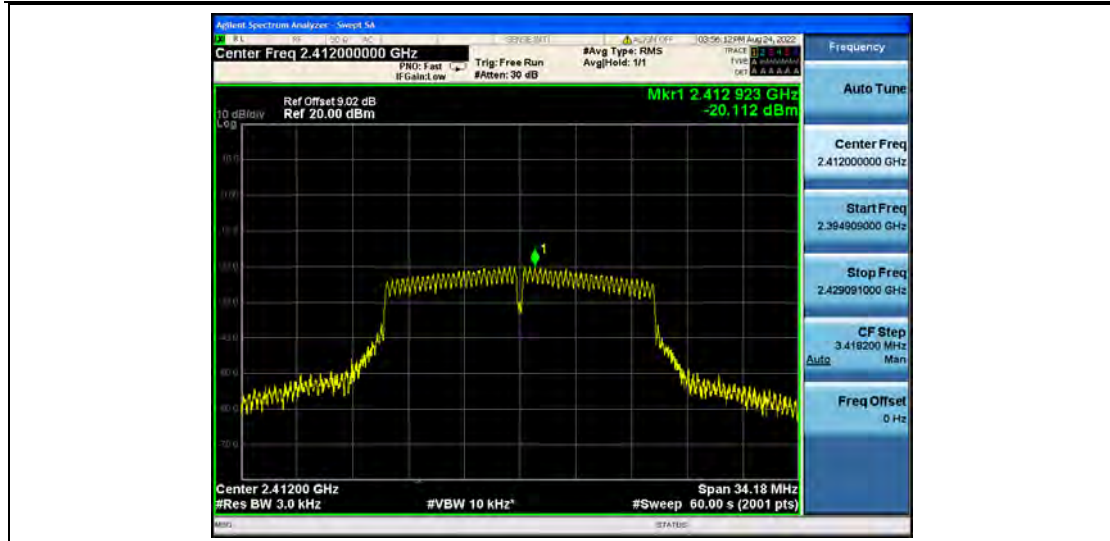


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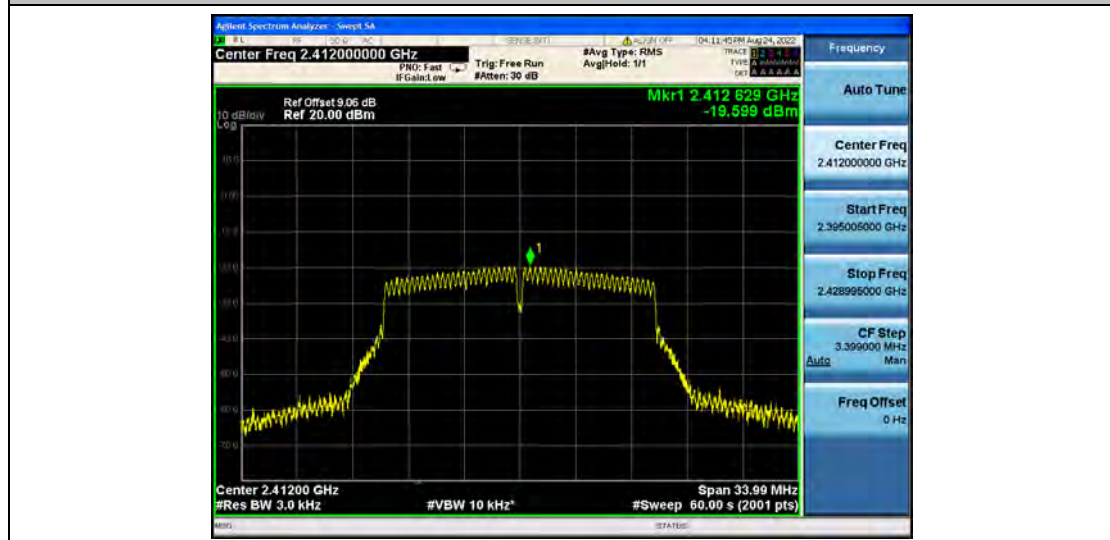


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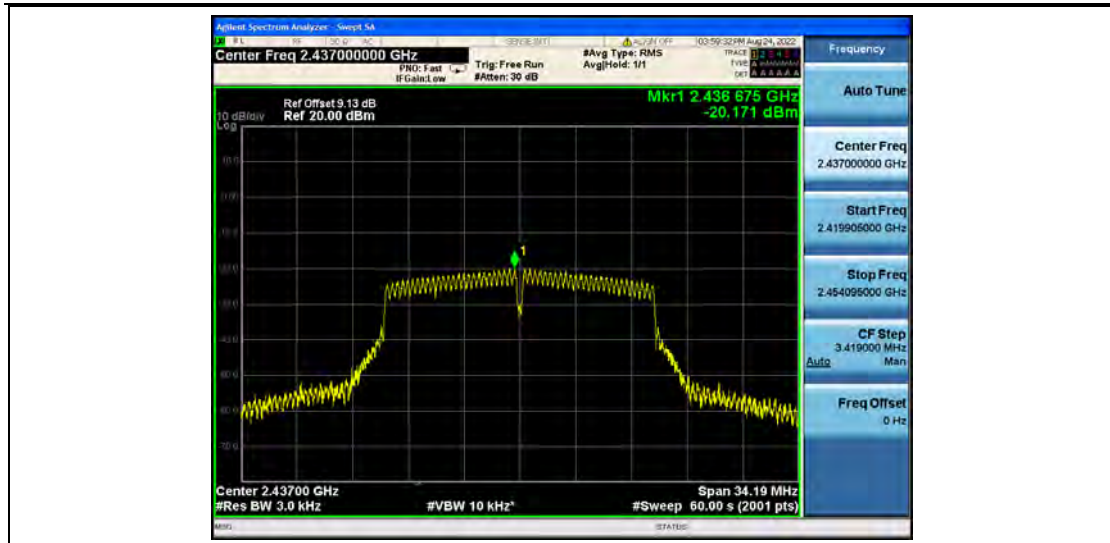


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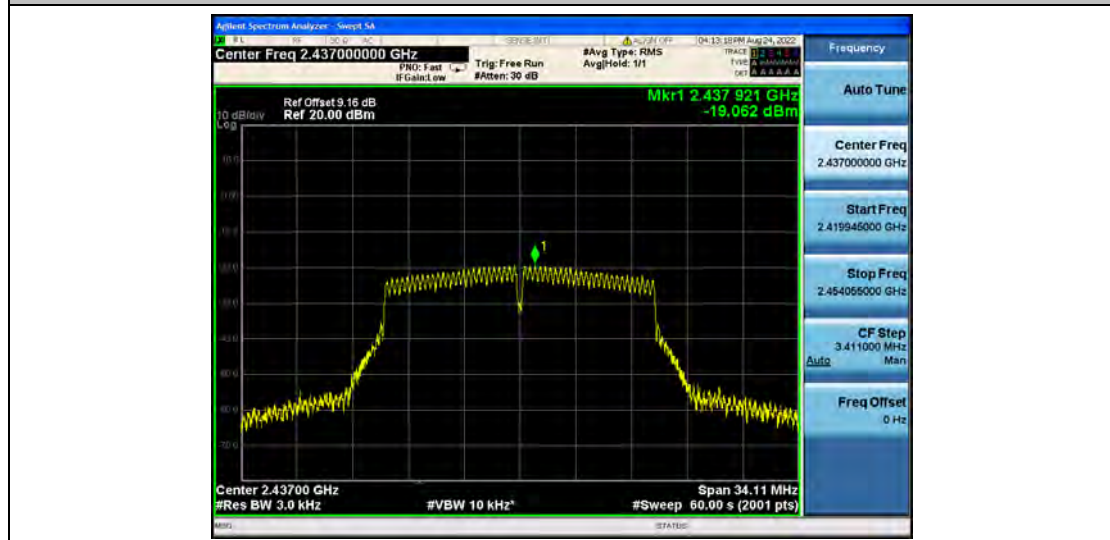


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11G_Ant2_2437

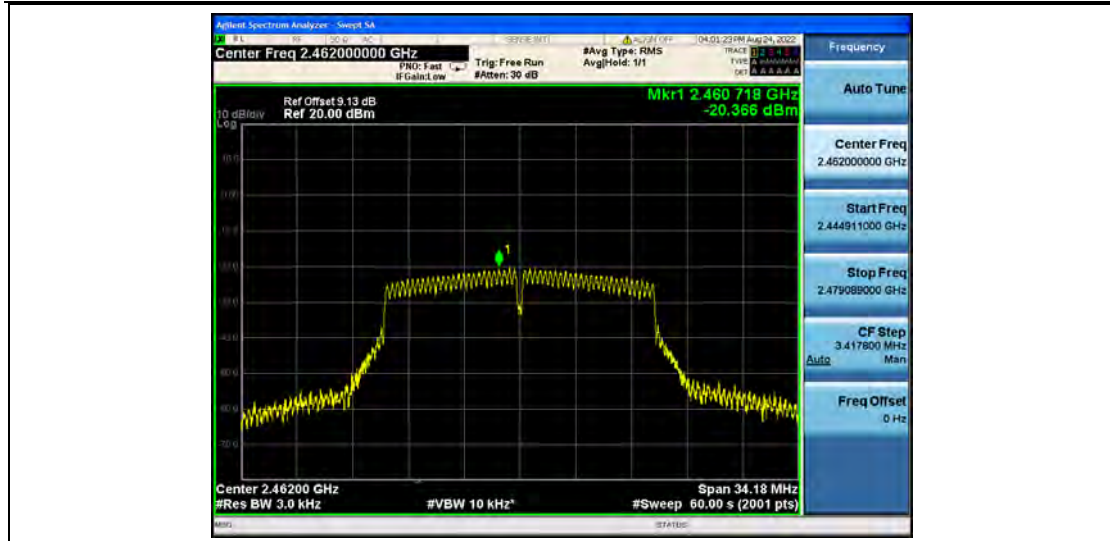


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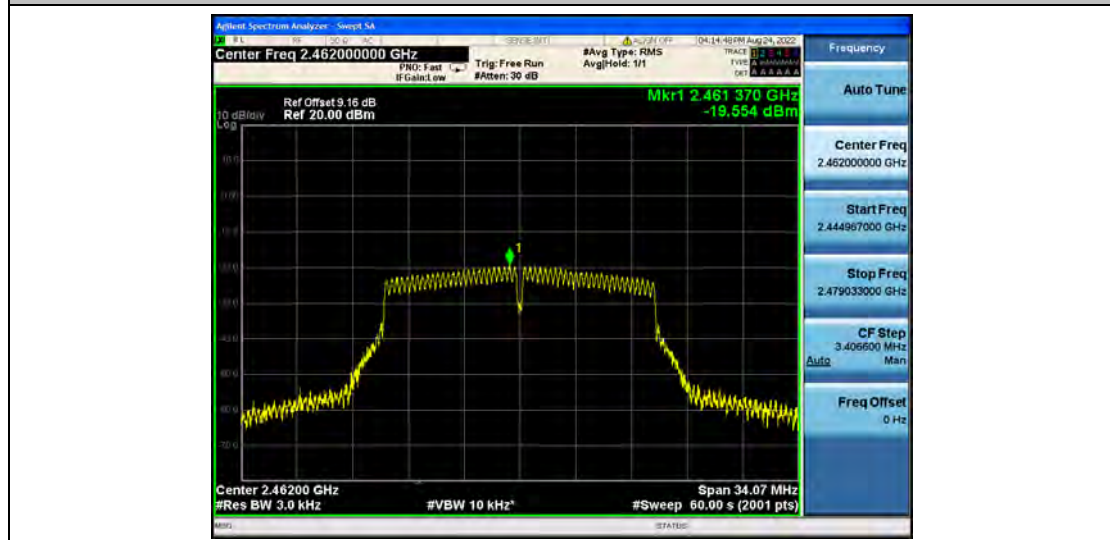


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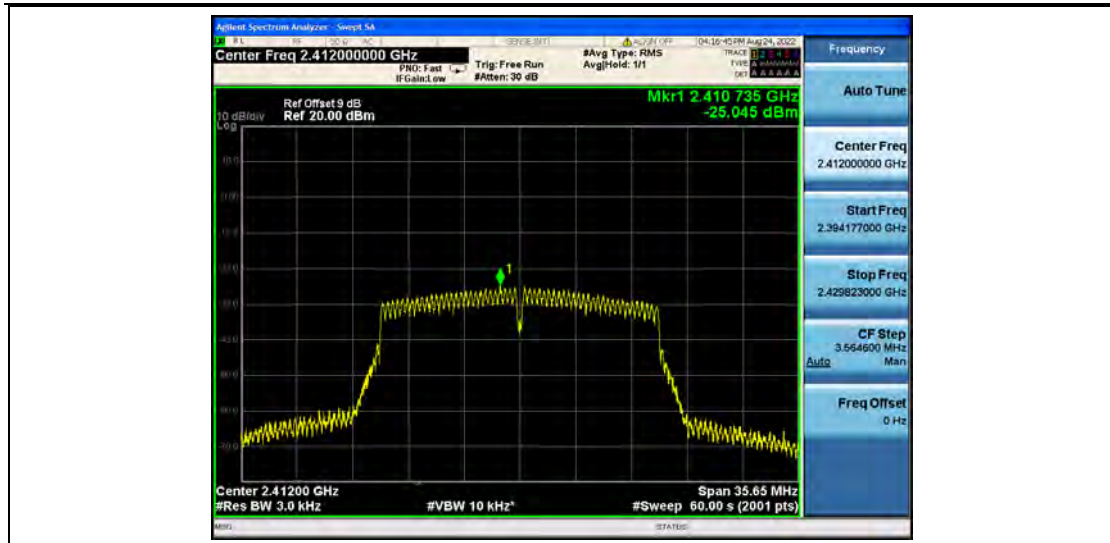


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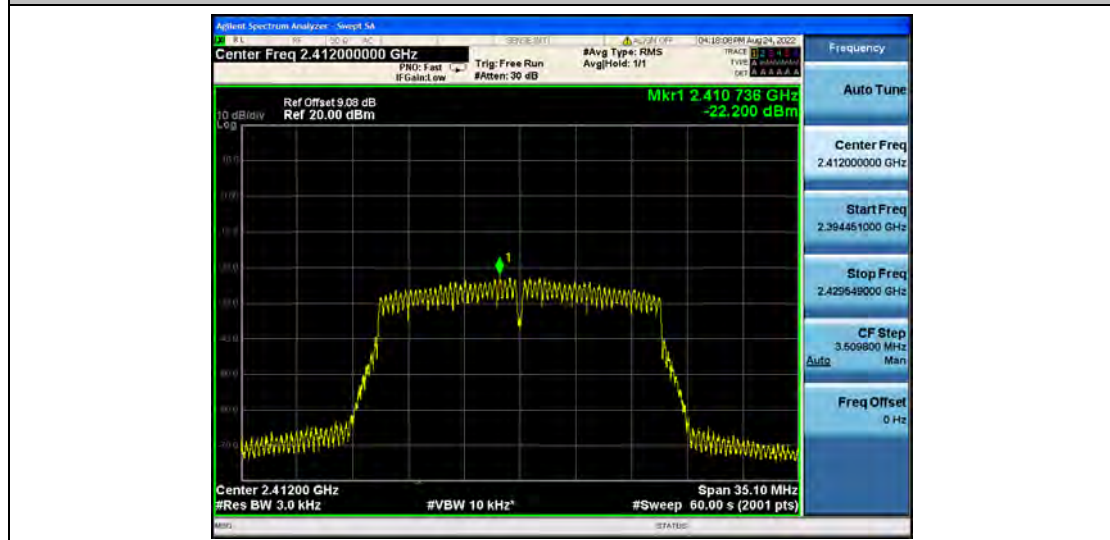


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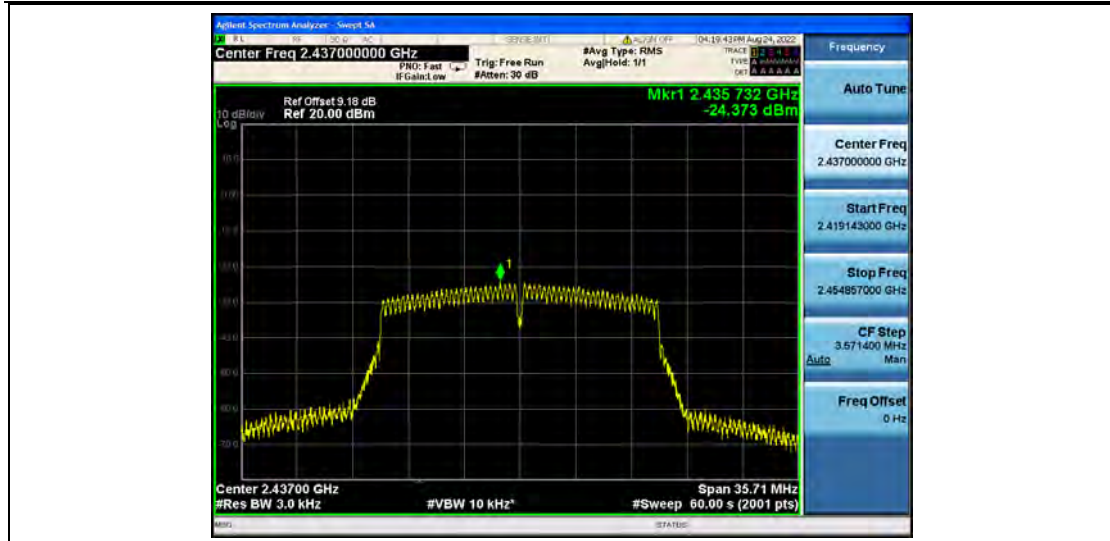


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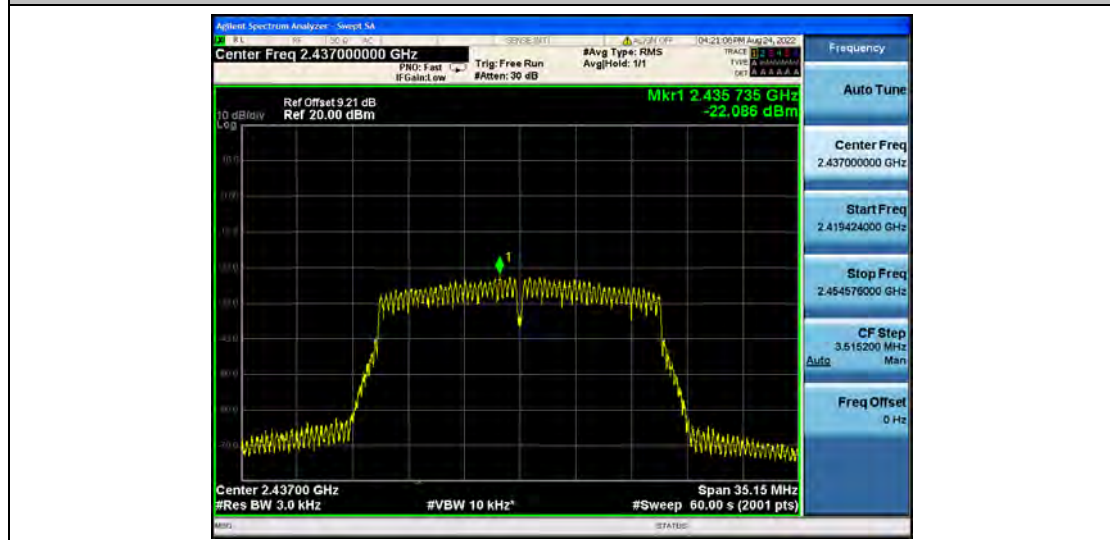


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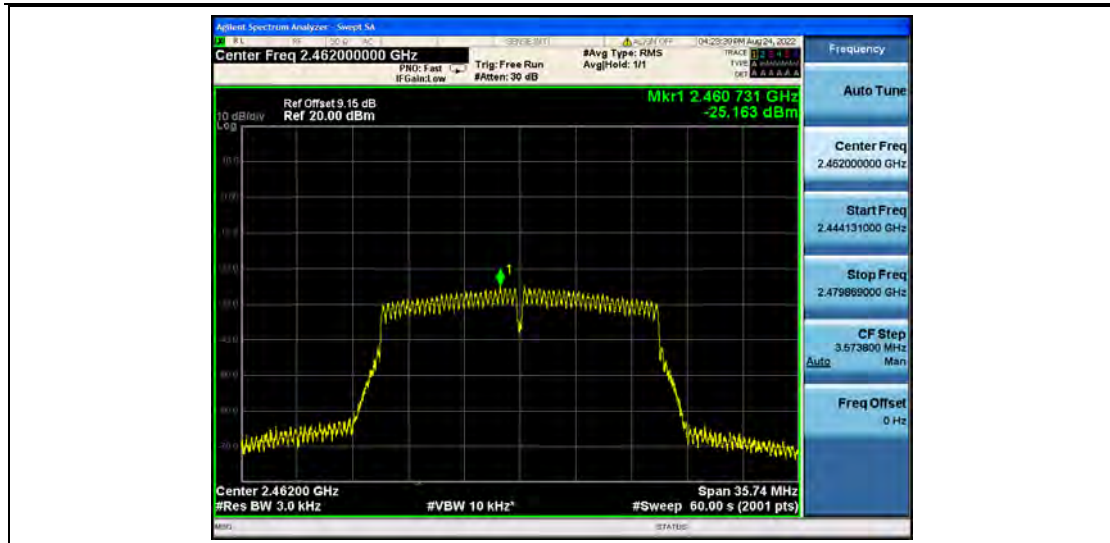


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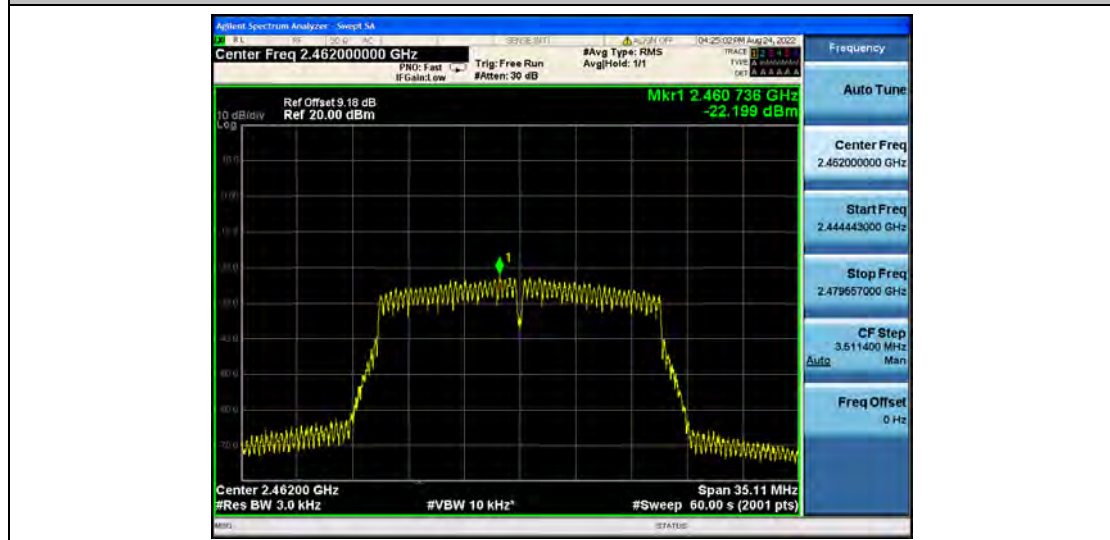


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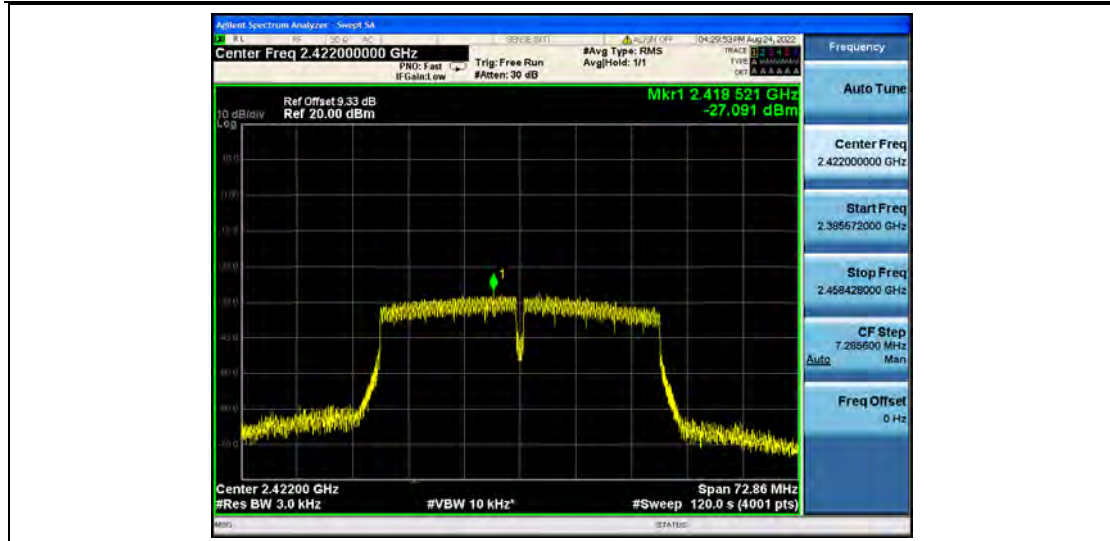


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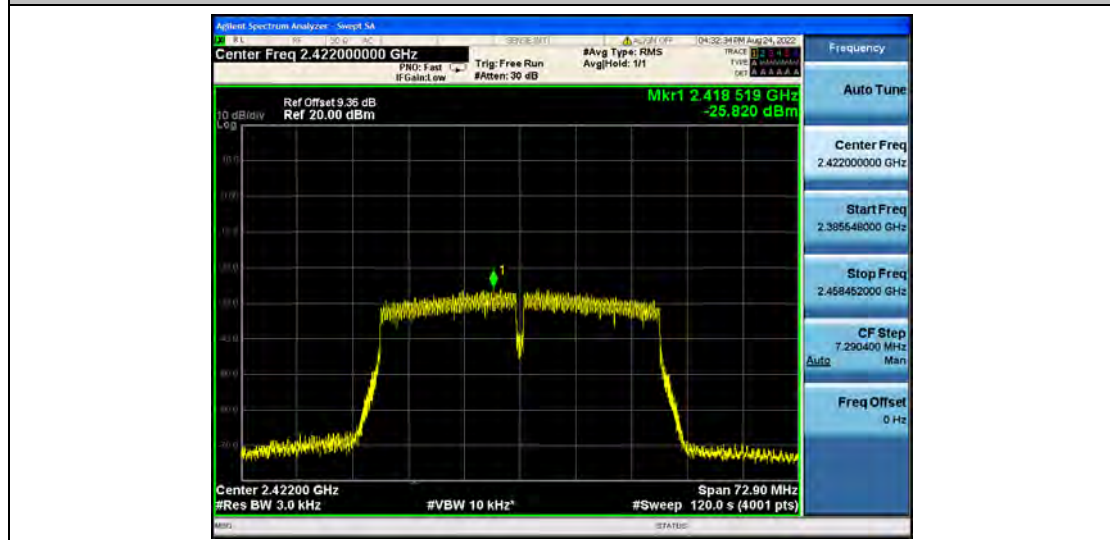


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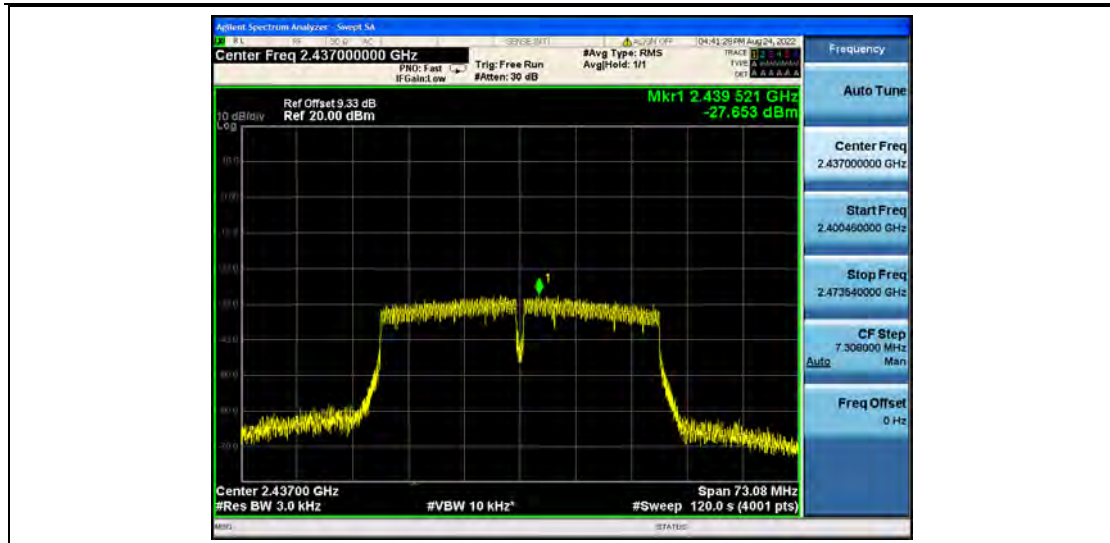


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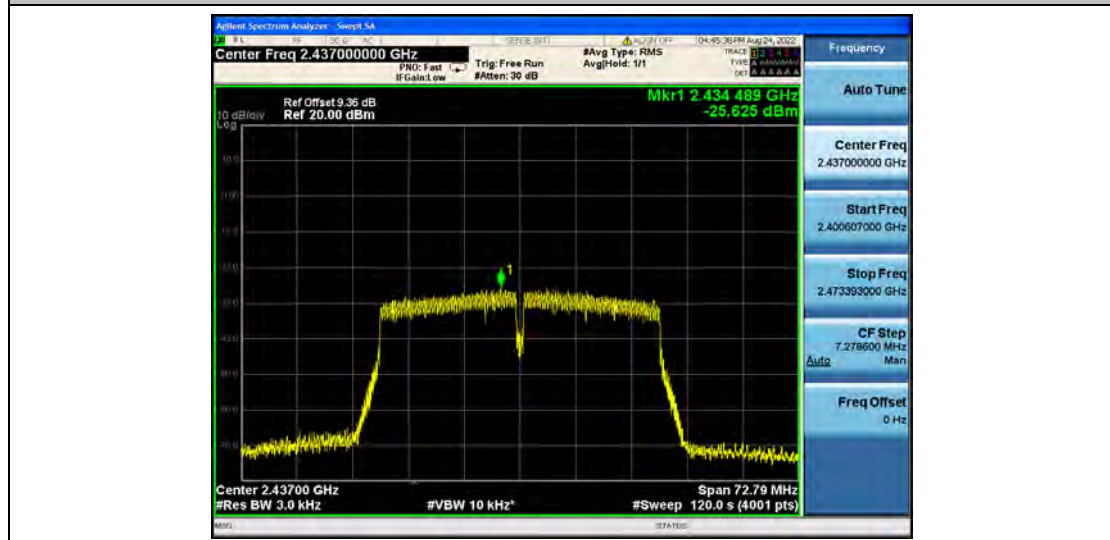


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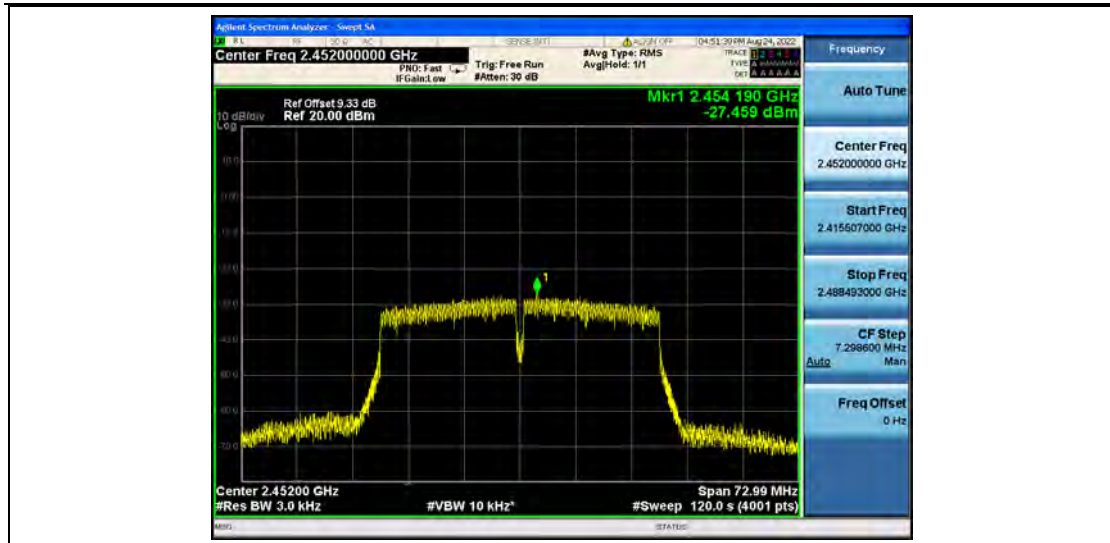
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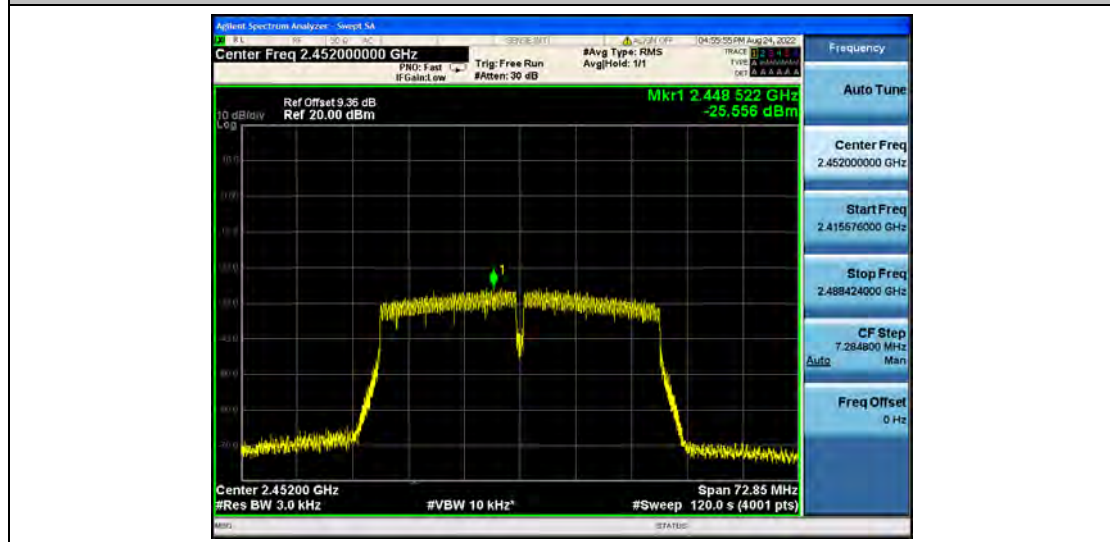
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11N40MIMO_Ant2_2452



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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.13	-36.97	≤-23.87	PASS
	Ant2	Low	2412	6.58	-38.09	≤-23.42	PASS
	Ant1	High	2462	6.60	-48.86	≤-23.4	PASS
	Ant2	High	2462	6.96	-48.44	≤-23.04	PASS
11G	Ant1	Low	2412	2.85	-29.77	≤-27.15	PASS
	Ant2	Low	2412	3.01	-32.67	≤-26.99	PASS
	Ant1	High	2462	3.75	-43.39	≤-26.25	PASS
	Ant2	High	2462	3.06	-46.62	≤-26.94	PASS
11N20MIMO	Ant1	Low	2412	0.19	-36.29	≤-29.81	PASS
	Ant2	Low	2412	0.08	-34.34	≤-29.92	PASS
	Ant1	High	2462	0.86	-47.88	≤-29.14	PASS
	Ant2	High	2462	0.29	-47.89	≤-29.71	PASS
11N40MIMO	Ant1	Low	2422	-2.57	-34.64	≤-32.57	PASS
	Ant2	Low	2422	-2.91	-37.43	≤-32.91	PASS
	Ant1	High	2452	-4.30	-36.32	≤-34.3	PASS
	Ant2	High	2452	-2.70	-38.5	≤-32.7	PASS

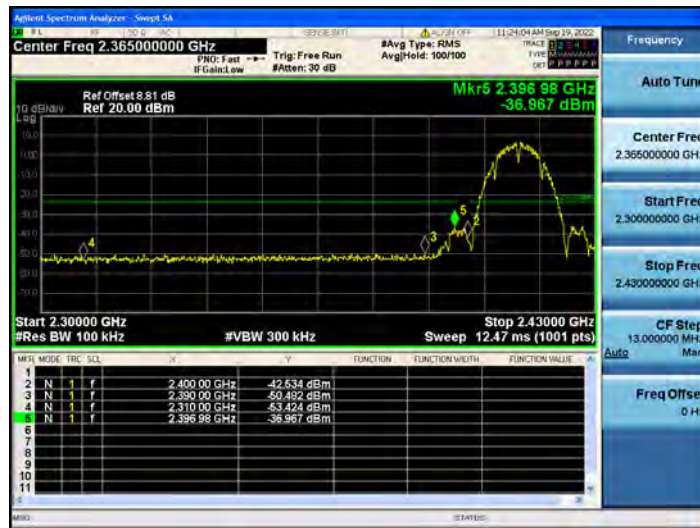


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Test Graphs

11B_Ant1_Low_2412



11B_Ant2_Low_2412

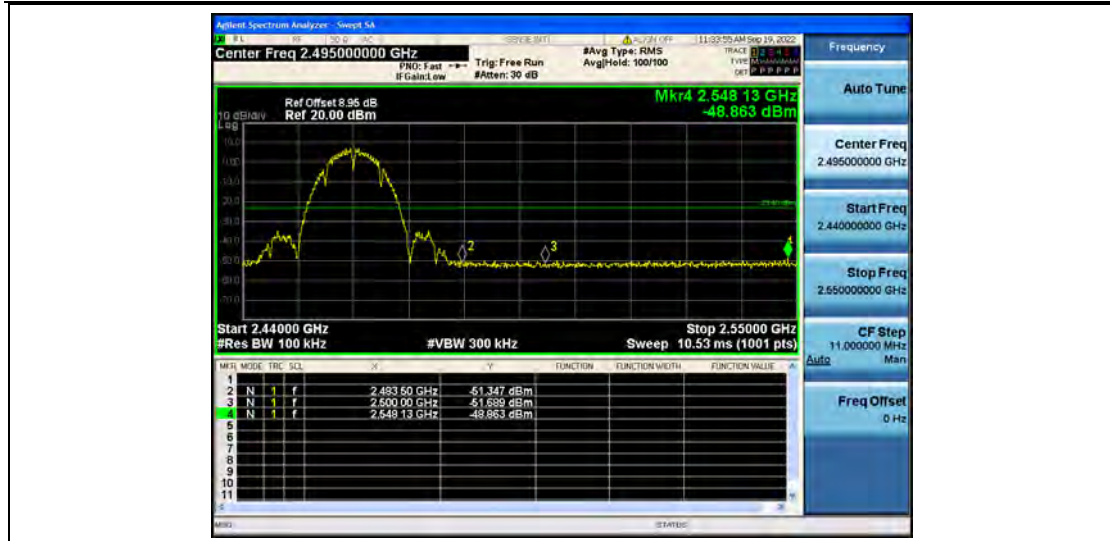


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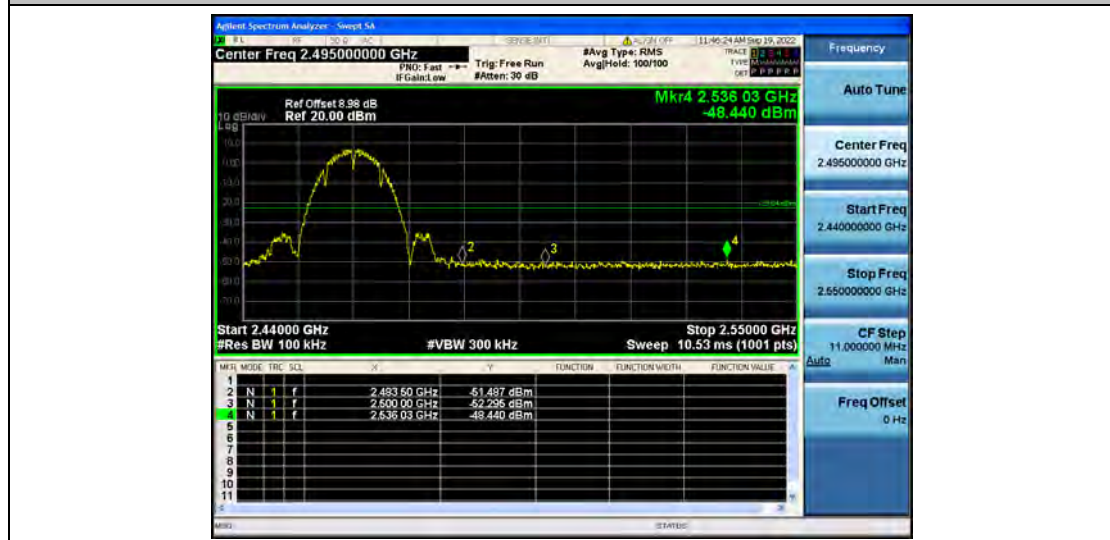


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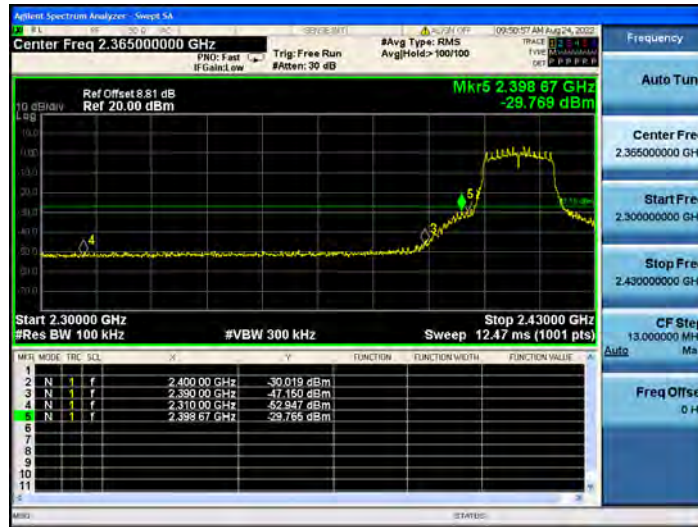


11G_Ant1_Low_2412



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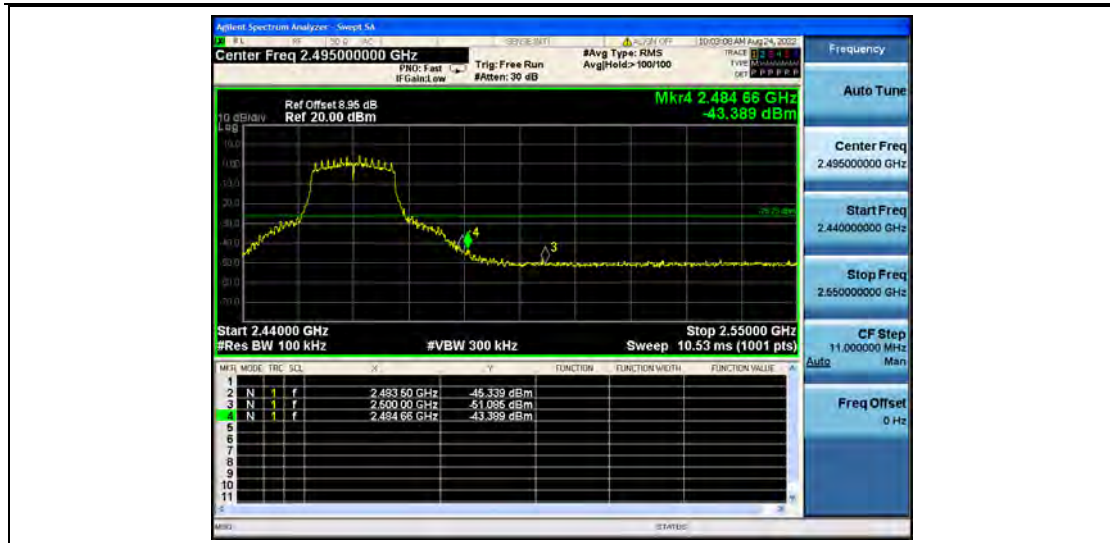


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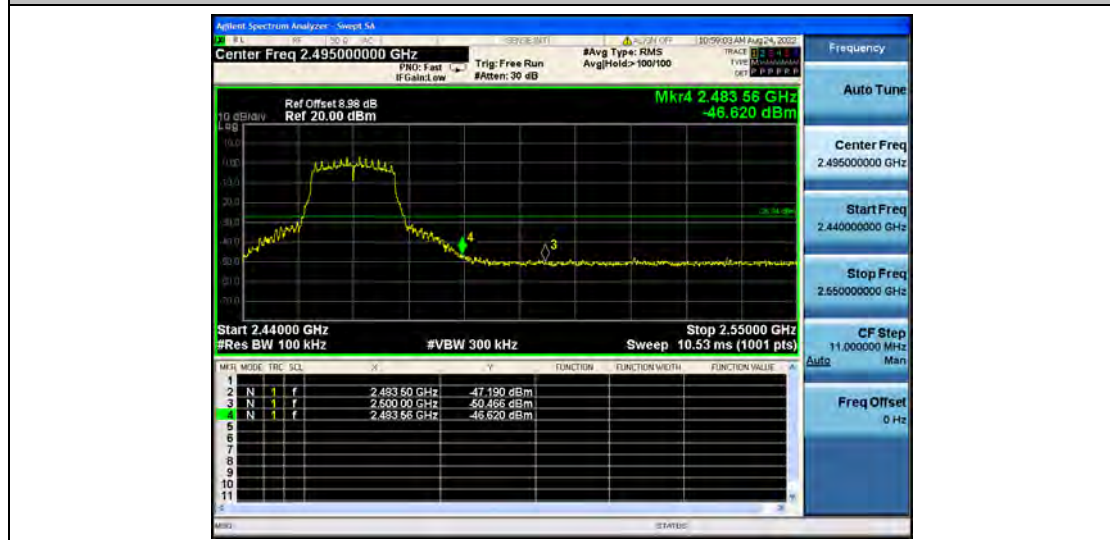


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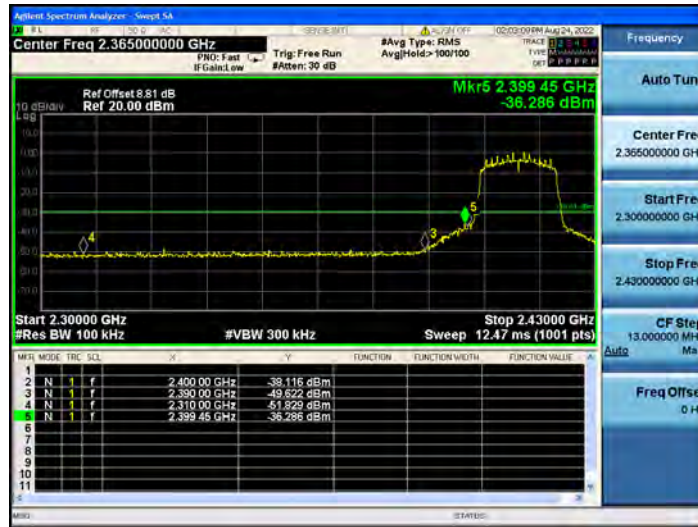


11N20MIMO_Ant1_Low_2412

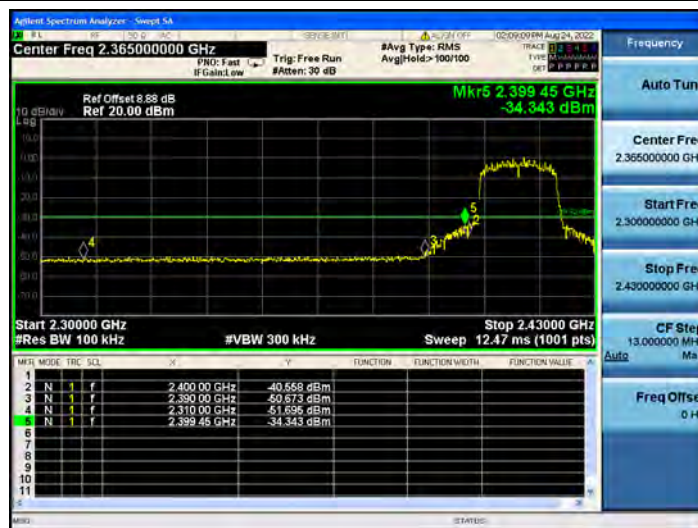


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11N20MIMO_Ant2_Low_2412



11N20MIMO_Ant1_High_2462

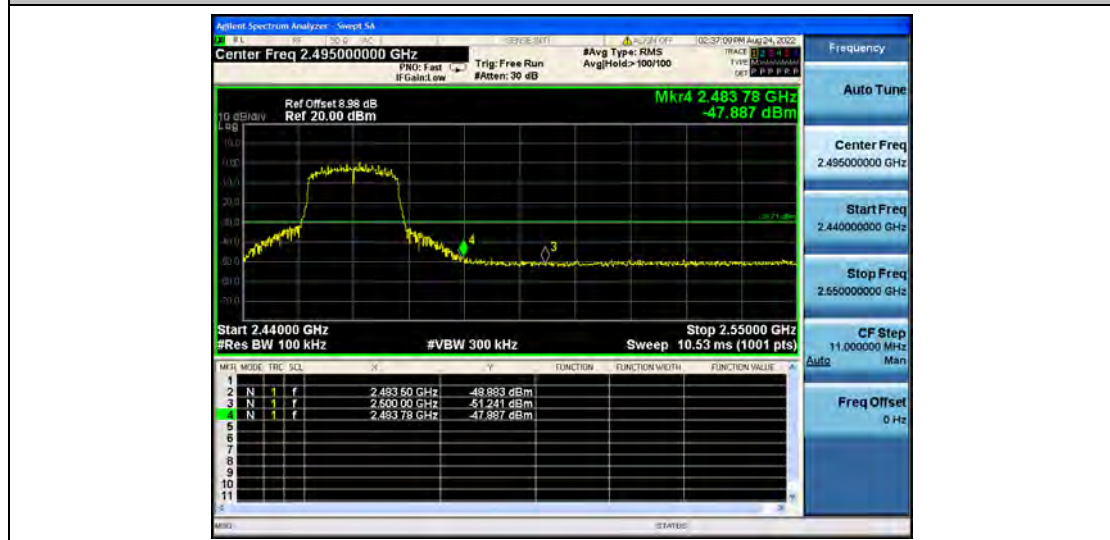


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11N20MIMO_Ant2_High_2462



11N40MIMO_Ant1_Low_2422

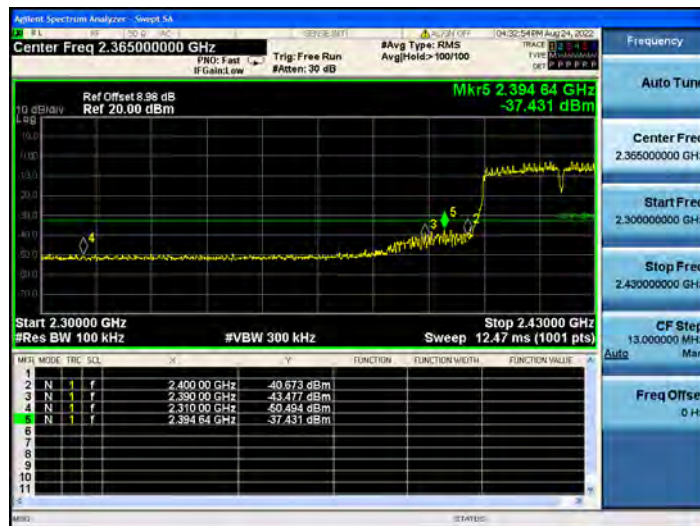


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11N40MIMO_Ant2_Low_2422

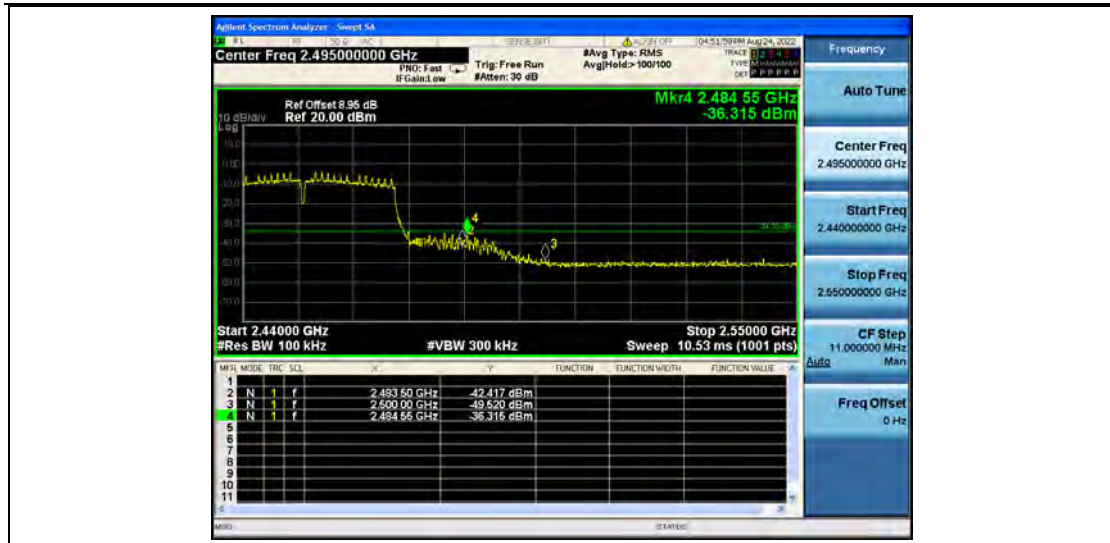


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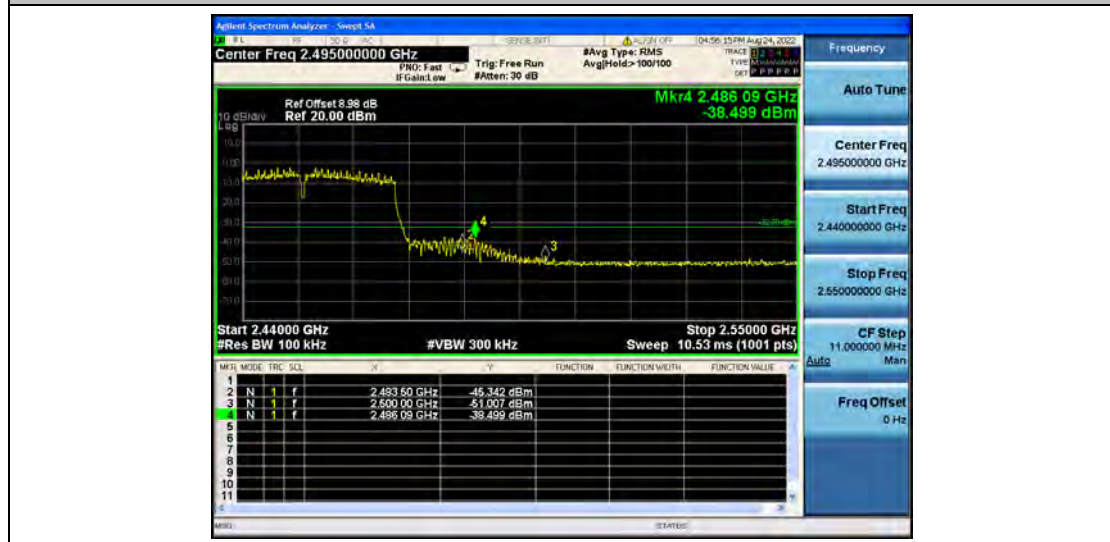


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11N40MIMO_Ant2_High_2452



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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	6.13	-61.23	≤-23.87	PASS
			1000~26500	6.13	-40.22	≤-23.87	PASS
	Ant2	2412	30~1000	6.58	-38.02	≤-23.42	PASS
			1000~26500	6.58	-43.17	≤-23.42	PASS
	Ant1	2437	30~1000	6.51	-58.08	≤-23.49	PASS
			1000~26500	6.51	-40.06	≤-23.49	PASS
	Ant2	2437	30~1000	6.86	-39.9	≤-23.14	PASS
			1000~26500	6.86	-42.6	≤-23.14	PASS
	Ant1	2462	30~1000	6.60	-60.51	≤-23.4	PASS
			1000~26500	6.60	-41.7	≤-23.4	PASS
	Ant2	2462	30~1000	6.96	-40.74	≤-23.04	PASS
			1000~26500	6.96	-42.92	≤-23.04	PASS
11G	Ant1	2412	30~1000	2.85	-61.09	≤-27.15	PASS
			1000~26500	2.85	-43.05	≤-27.15	PASS
	Ant2	2412	30~1000	3.01	-60.45	≤-26.99	PASS
			1000~26500	3.01	-43.4	≤-26.99	PASS
	Ant1	2437	30~1000	3.68	-60.78	≤-26.32	PASS
			1000~26500	3.68	-43.57	≤-26.32	PASS
	Ant2	2437	30~1000	3.30	-61.01	≤-26.7	PASS
			1000~26500	3.30	-42.92	≤-26.7	PASS
	Ant1	2462	30~1000	3.75	-60.62	≤-26.25	PASS
			1000~26500	3.75	-43.73	≤-26.25	PASS
	Ant2	2462	30~1000	3.06	-61.12	≤-26.94	PASS
			1000~26500	3.06	-43.81	≤-26.94	PASS
11N20MIMO	Ant1	2412	30~1000	0.19	-60.45	≤-29.81	PASS
			1000~26500	0.19	-43.22	≤-29.81	PASS
	Ant2	2412	30~1000	0.08	-58.73	≤-29.92	PASS
			1000~26500	0.08	-43.37	≤-29.92	PASS
	Ant1	2437	30~1000	0.63	-60.96	≤-29.37	PASS
			1000~26500	0.63	-42.5	≤-29.37	PASS
	Ant2	2437	30~1000	0.11	-58.43	≤-29.89	PASS
			1000~26500	0.11	-43.31	≤-29.89	PASS
	Ant1	2462	30~1000	0.86	-60.85	≤-29.14	PASS



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			1000~26500	0.86	-42.21	≤-29.14	PASS
	Ant2	2462	30~1000	0.29	-59.59	≤-29.71	PASS
			1000~26500	0.29	-43.24	≤-29.71	PASS
11N40MIMO	Ant1	2422	30~1000	-2.57	-61.26	≤-32.57	PASS
			1000~26500	-2.57	-43.02	≤-32.57	PASS
	Ant2	2422	30~1000	-2.91	-50.94	≤-32.91	PASS
			1000~26500	-2.91	-42.84	≤-32.91	PASS
	Ant1	2437	30~1000	-3.99	-60.63	≤-33.99	PASS
			1000~26500	-3.99	-42.43	≤-33.99	PASS
	Ant2	2437	30~1000	-2.75	-51.78	≤-32.75	PASS
			1000~26500	-2.75	-42.85	≤-32.75	PASS
	Ant1	2452	30~1000	-4.30	-61.01	≤-34.3	PASS
			1000~26500	-4.30	-43.01	≤-34.3	PASS
	Ant2	2452	30~1000	-2.70	-59	≤-32.7	PASS
			1000~26500	-2.70	-43.06	≤-32.7	PASS

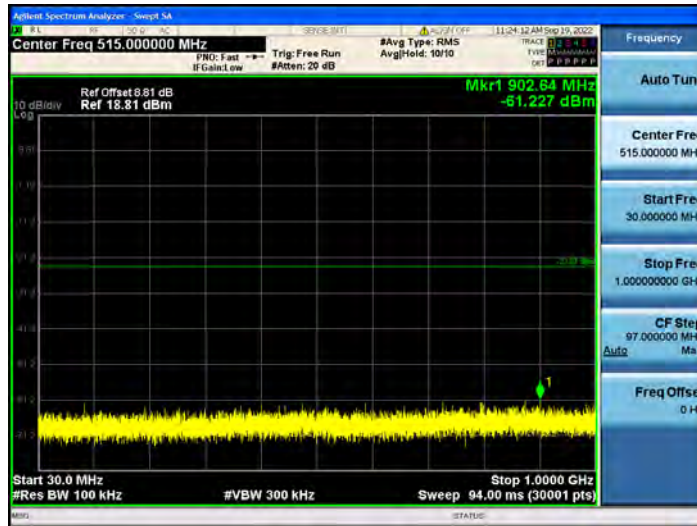


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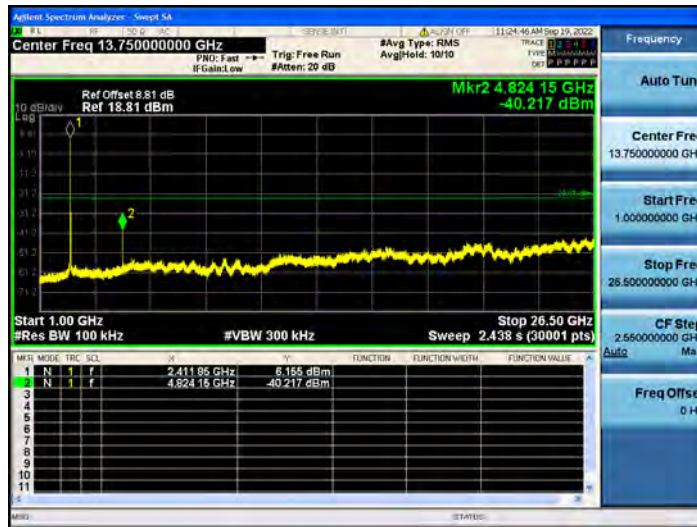
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Test Graphs

11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

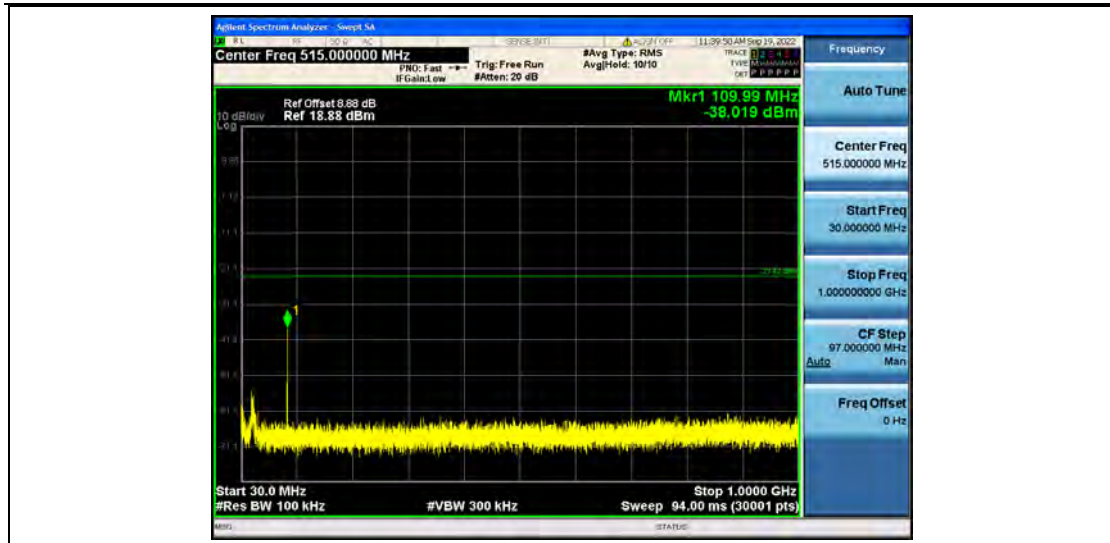


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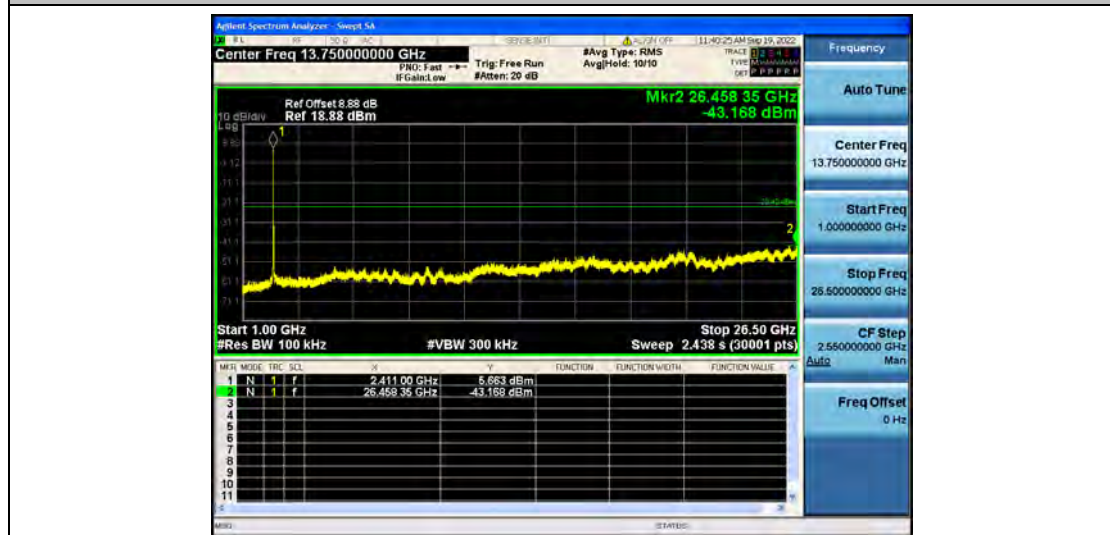


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11B_Ant2_2412_1000~26500



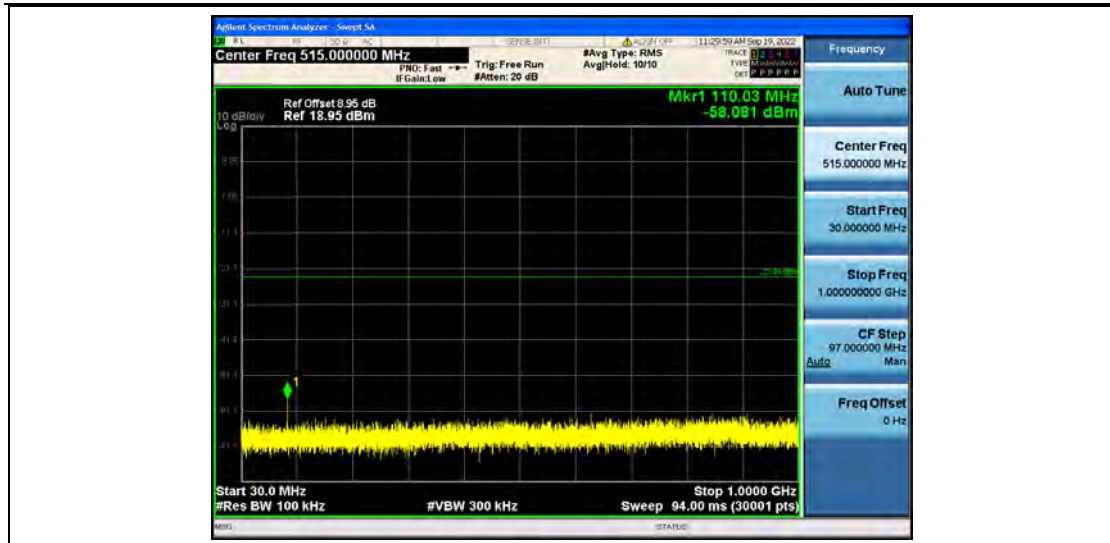
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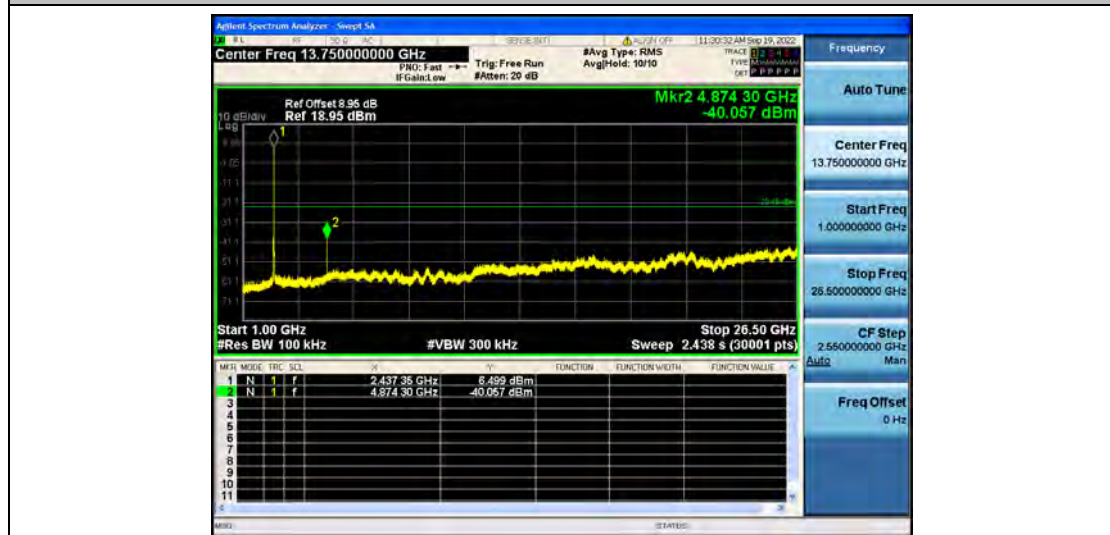
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11B_Ant1_2437_1000~26500

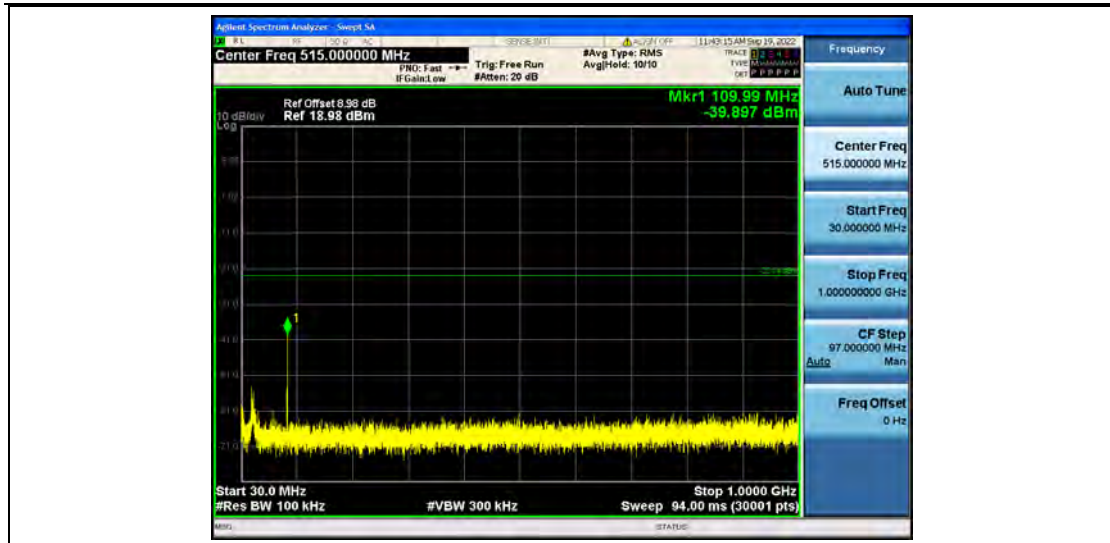


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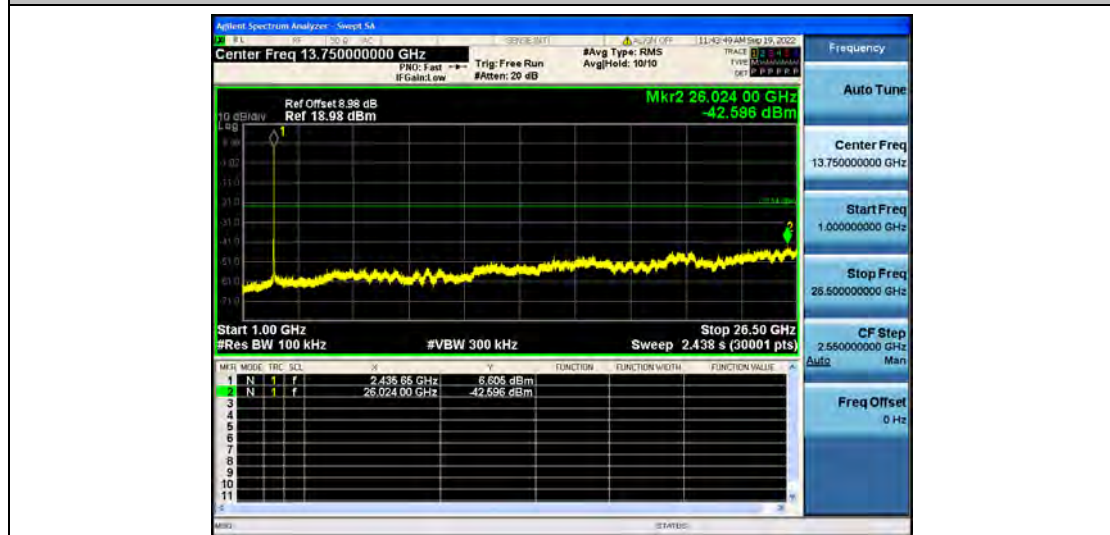


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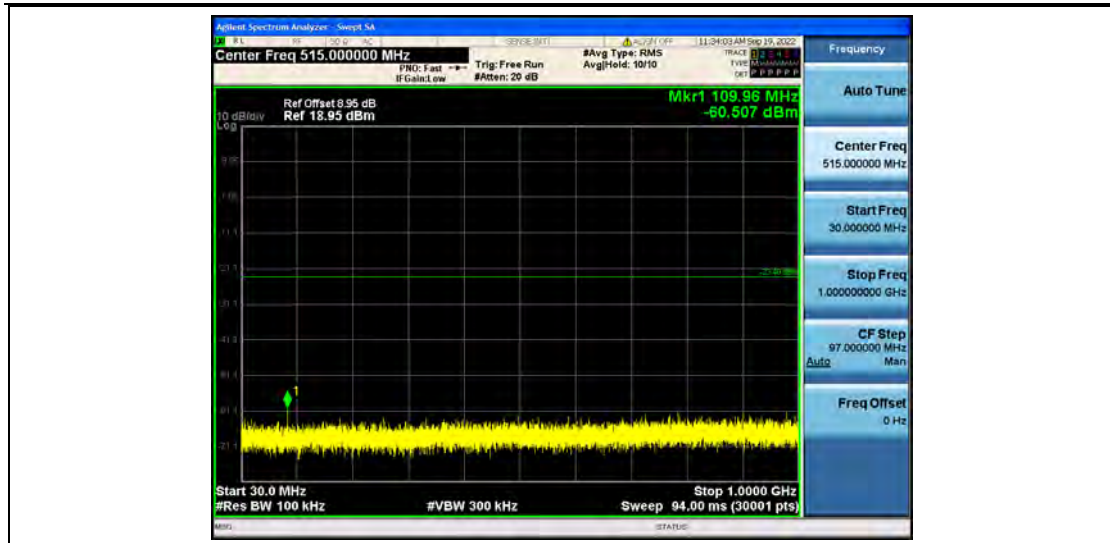


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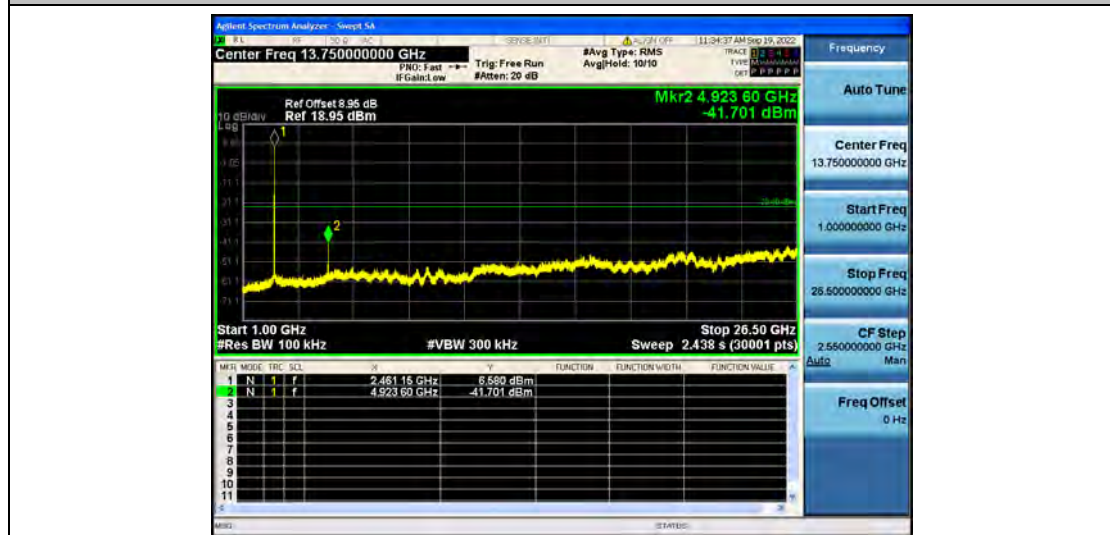


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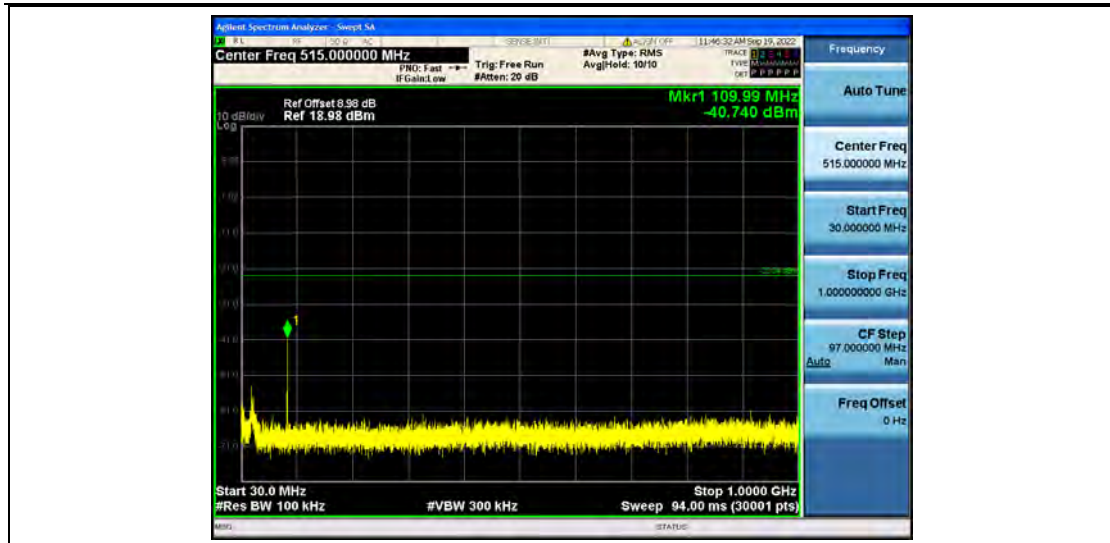


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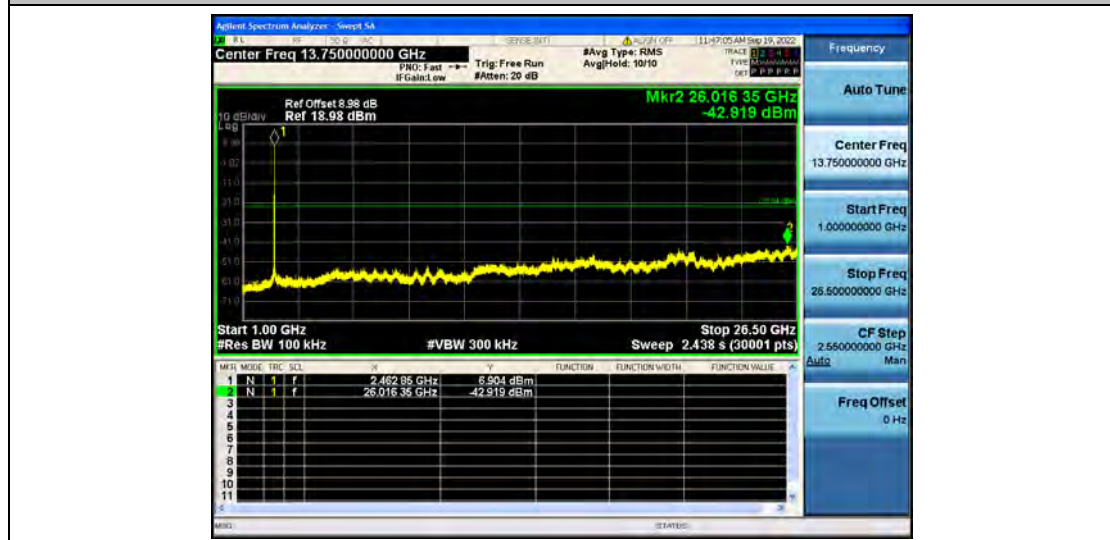


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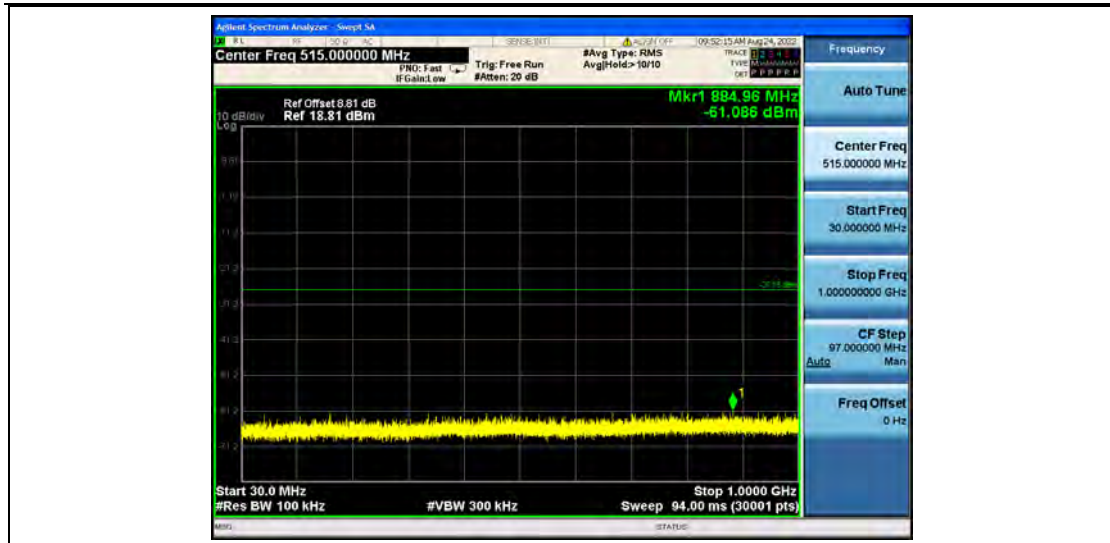
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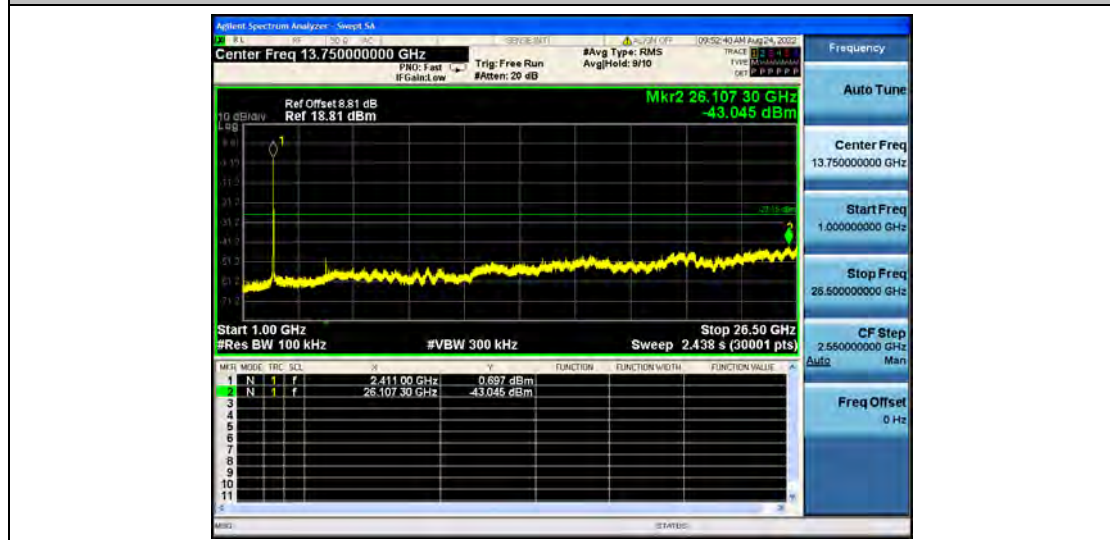
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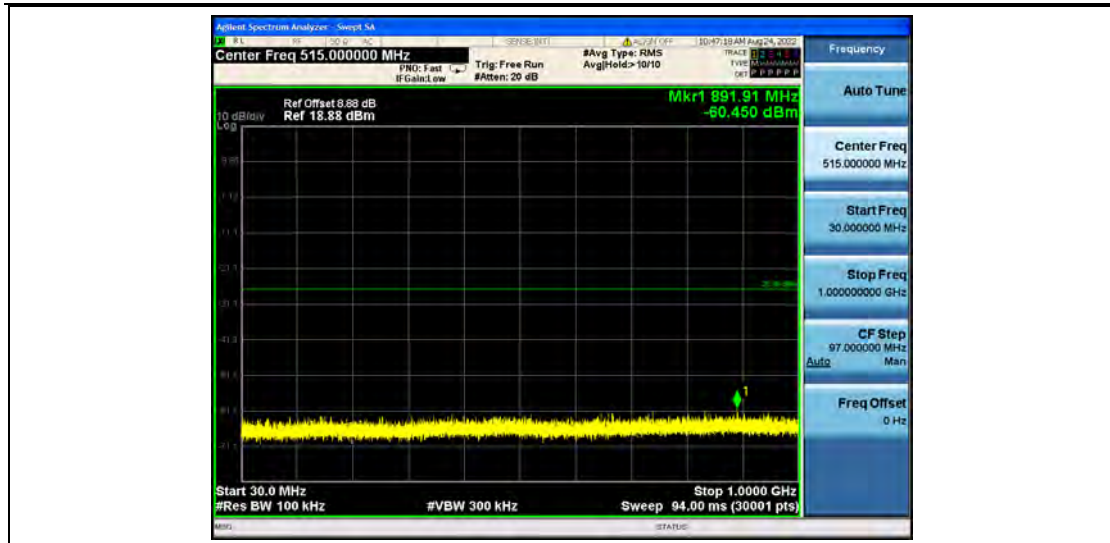
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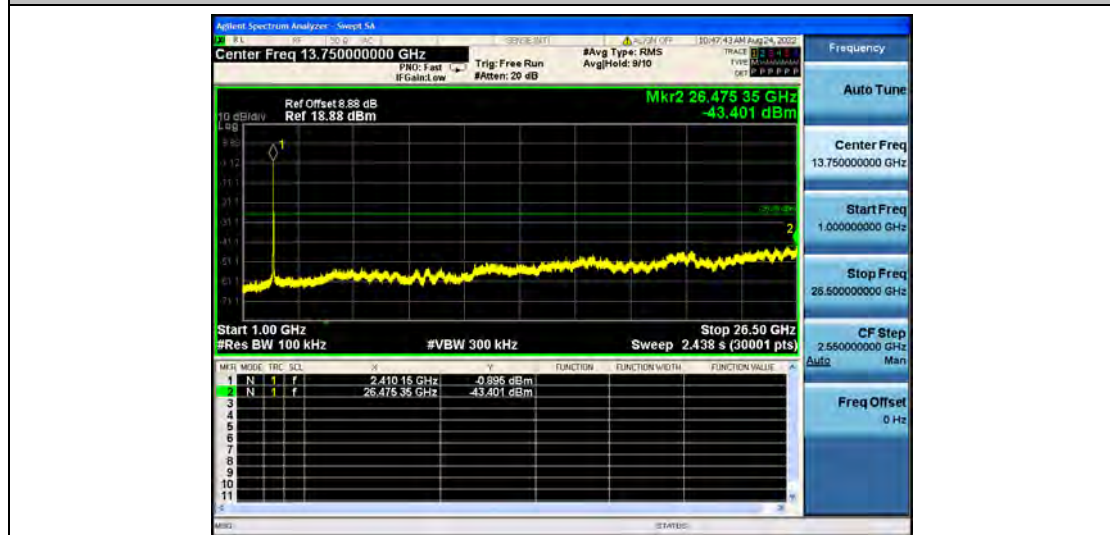
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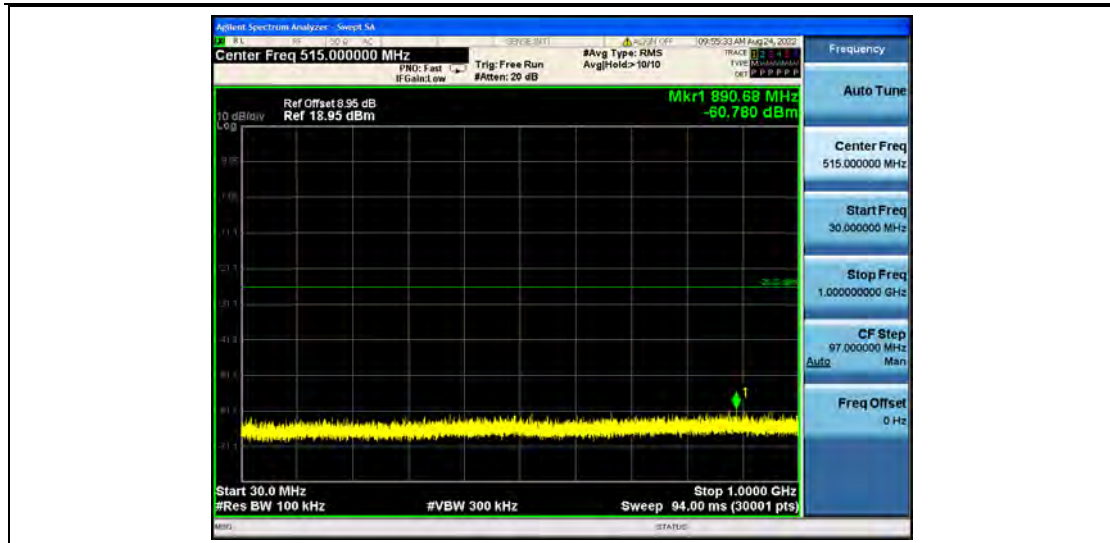


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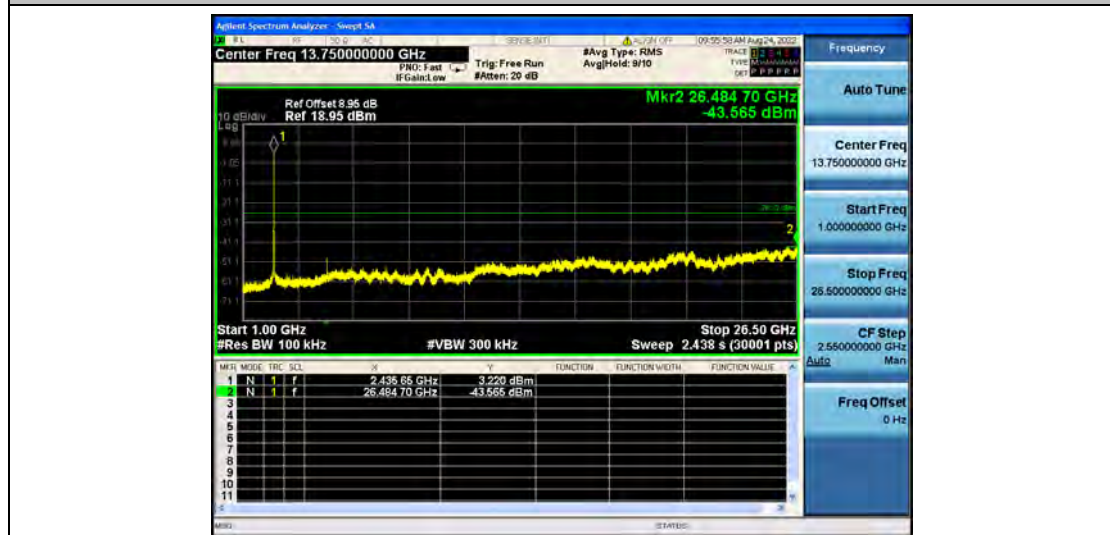


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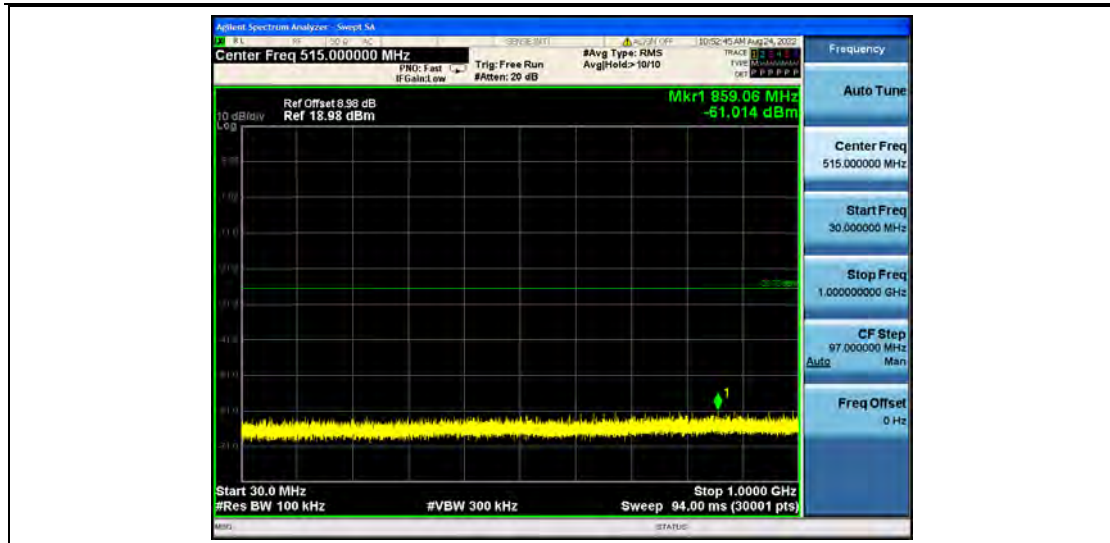
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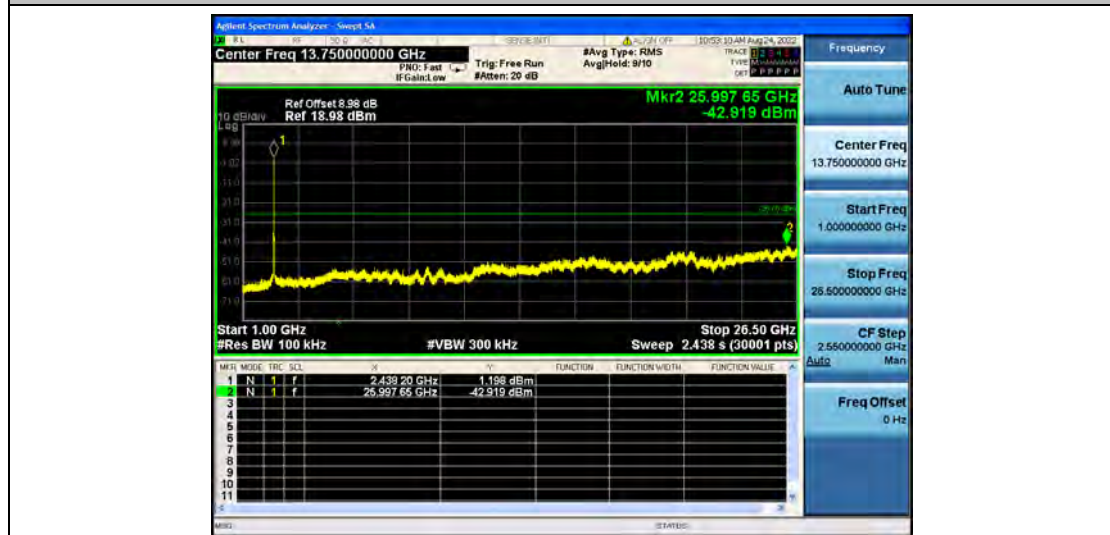
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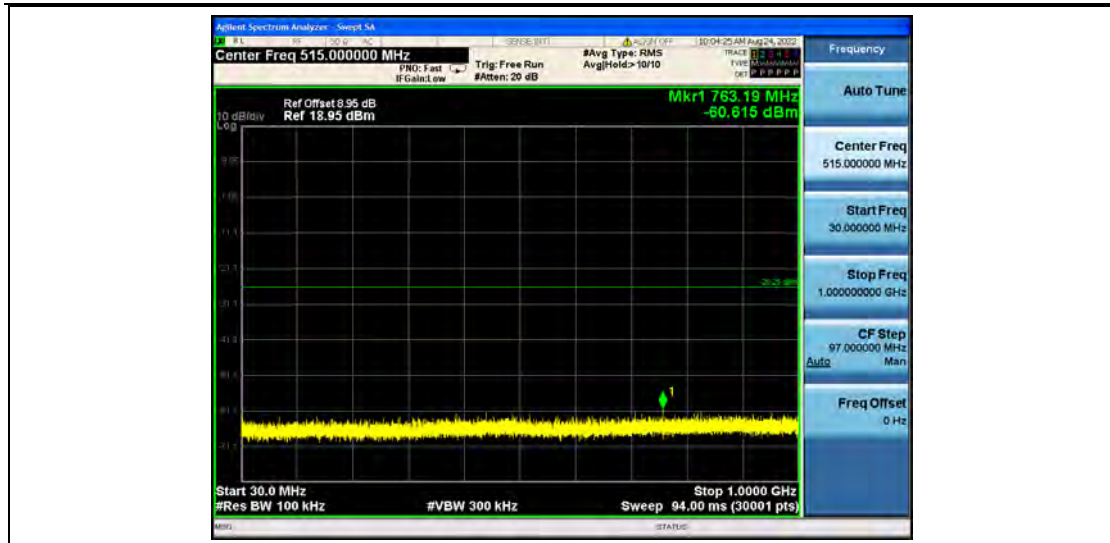
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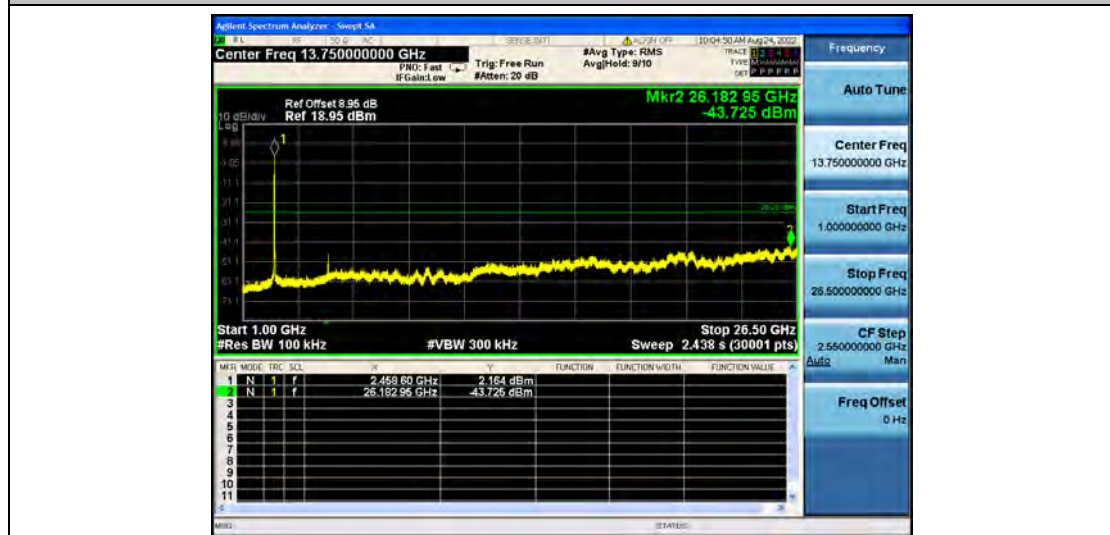
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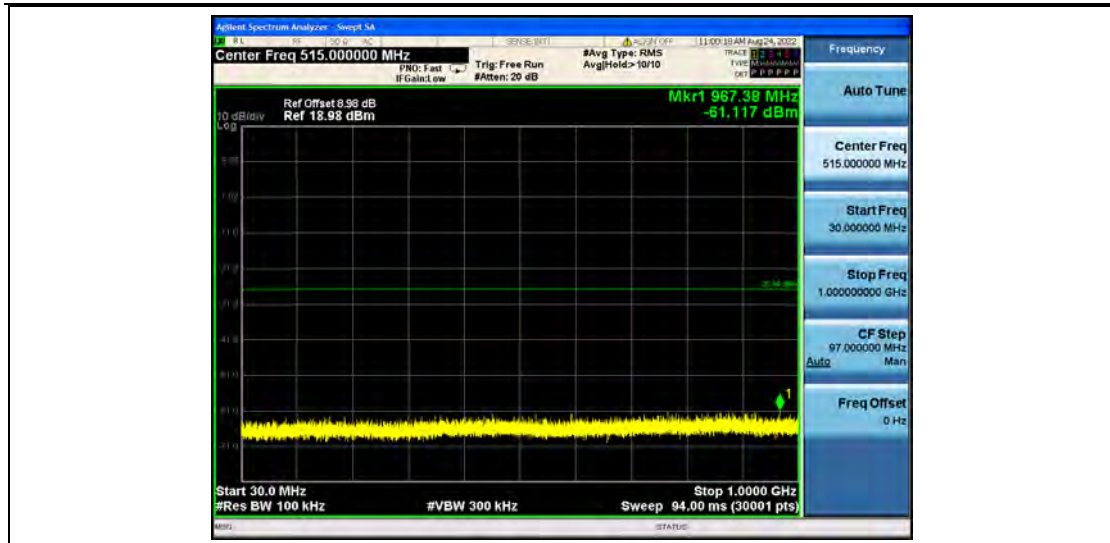
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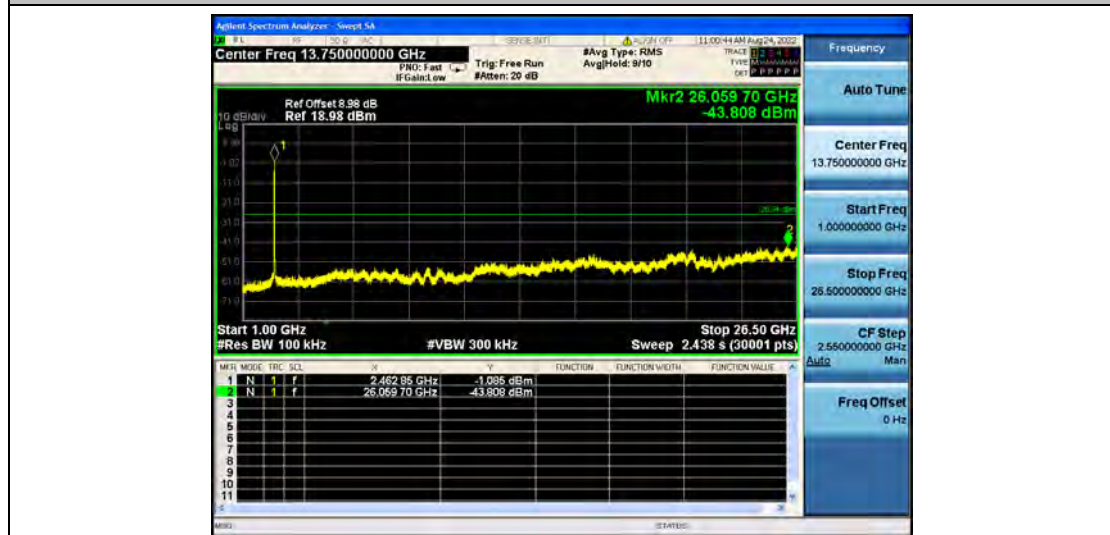
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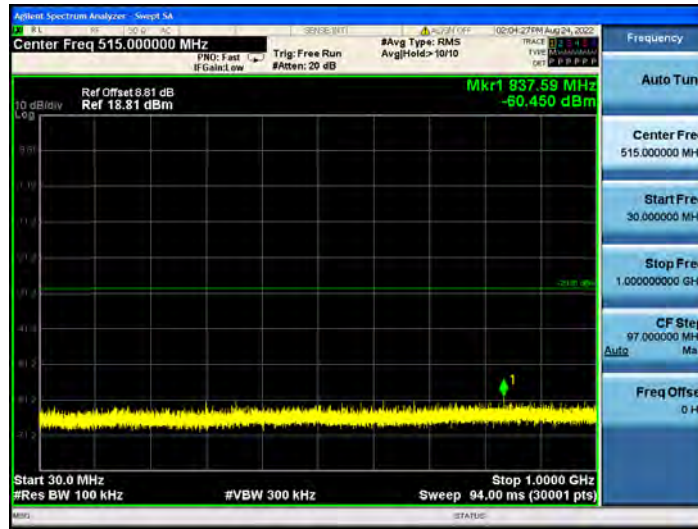
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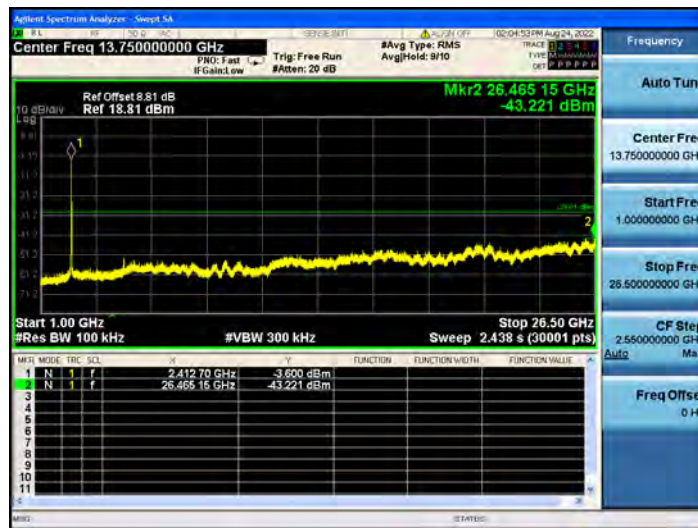
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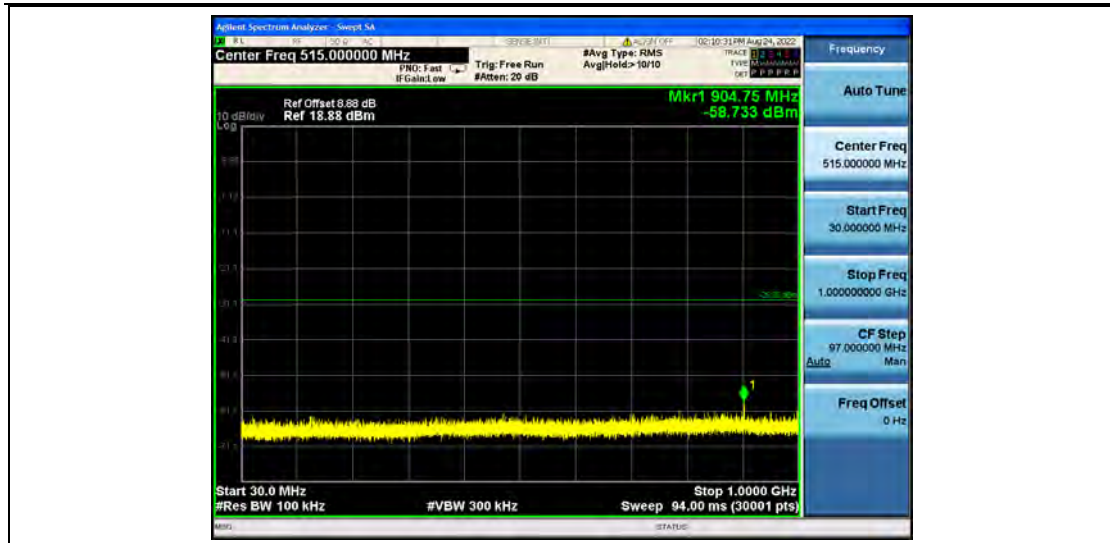


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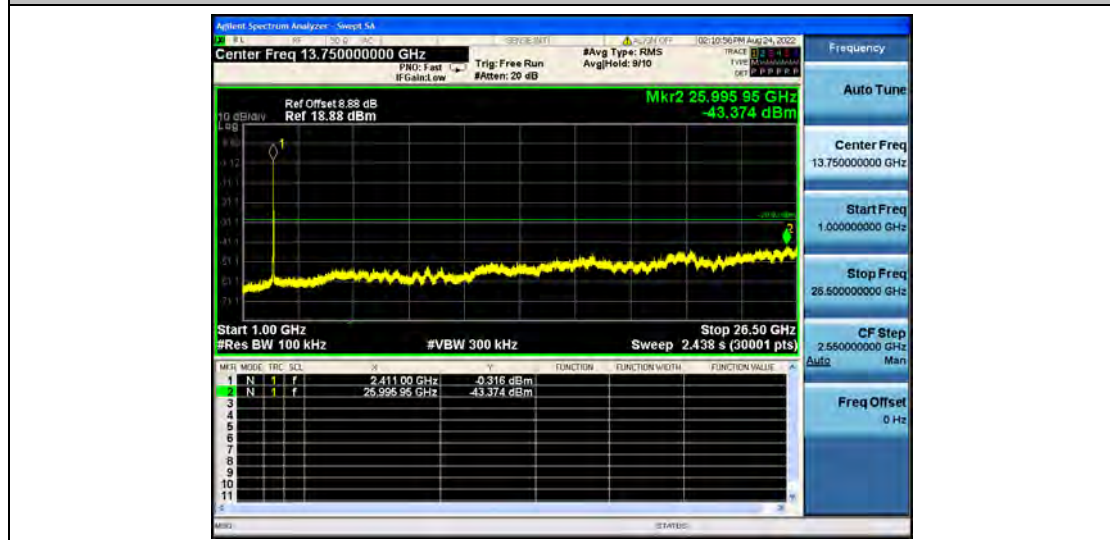


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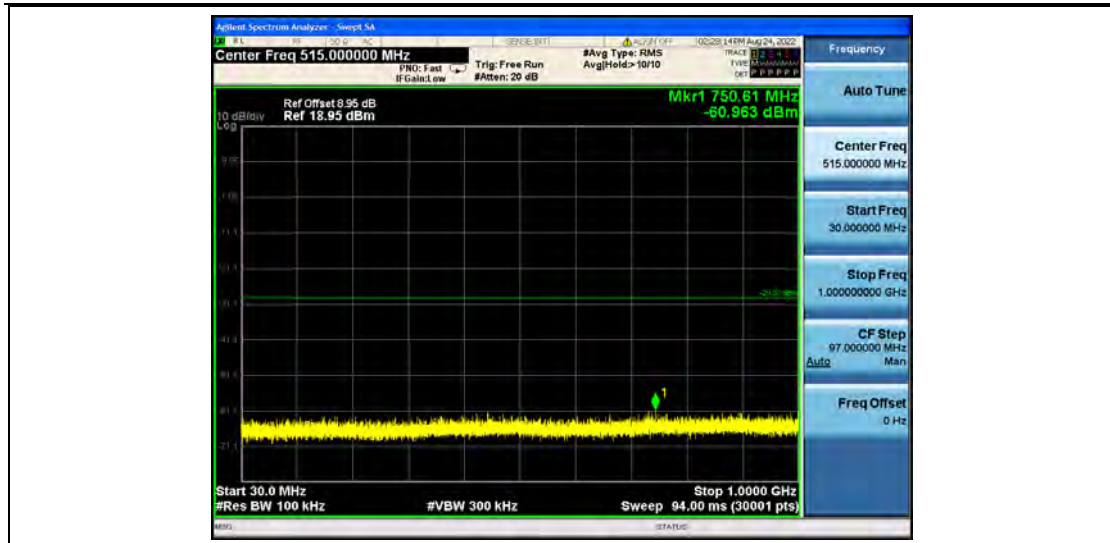


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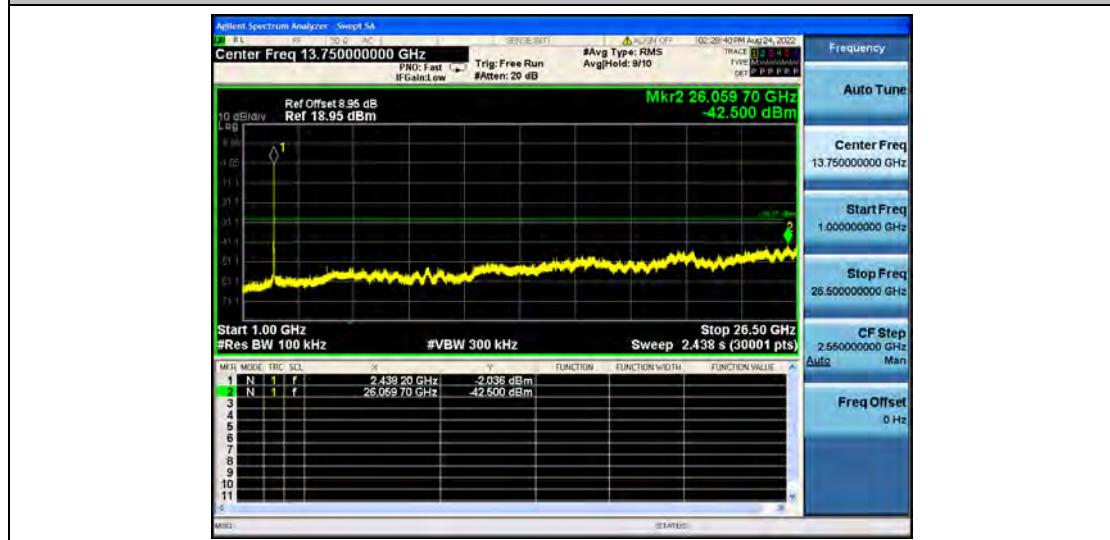


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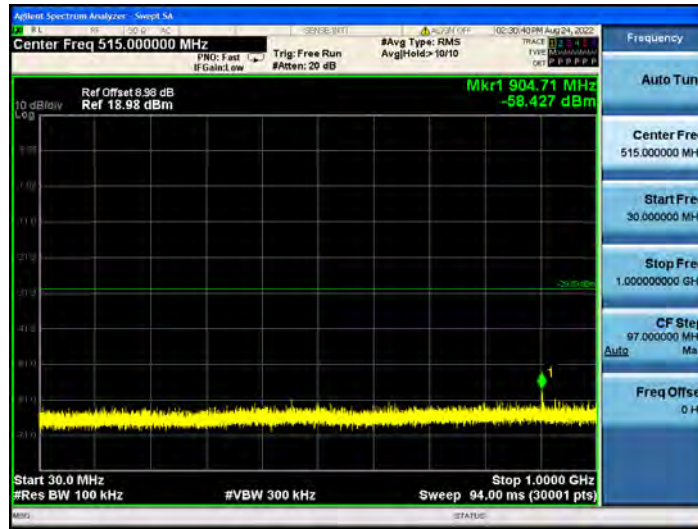
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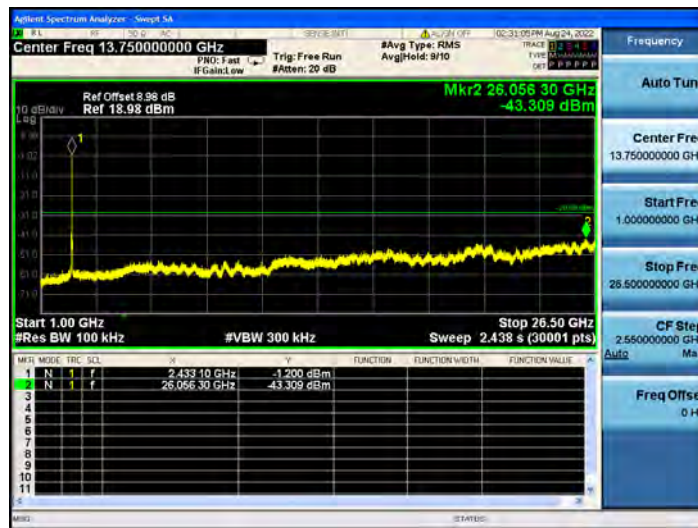
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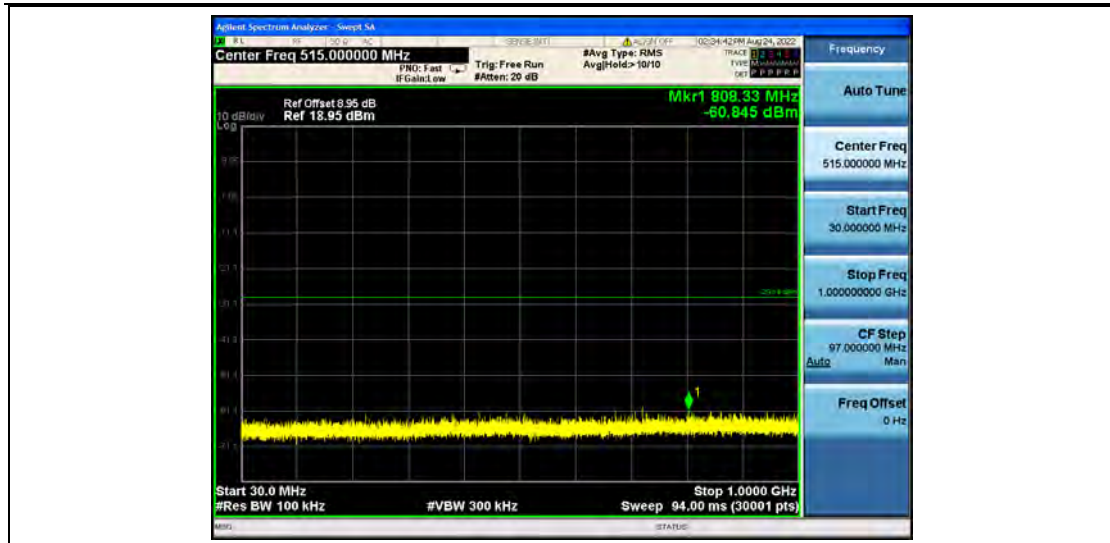


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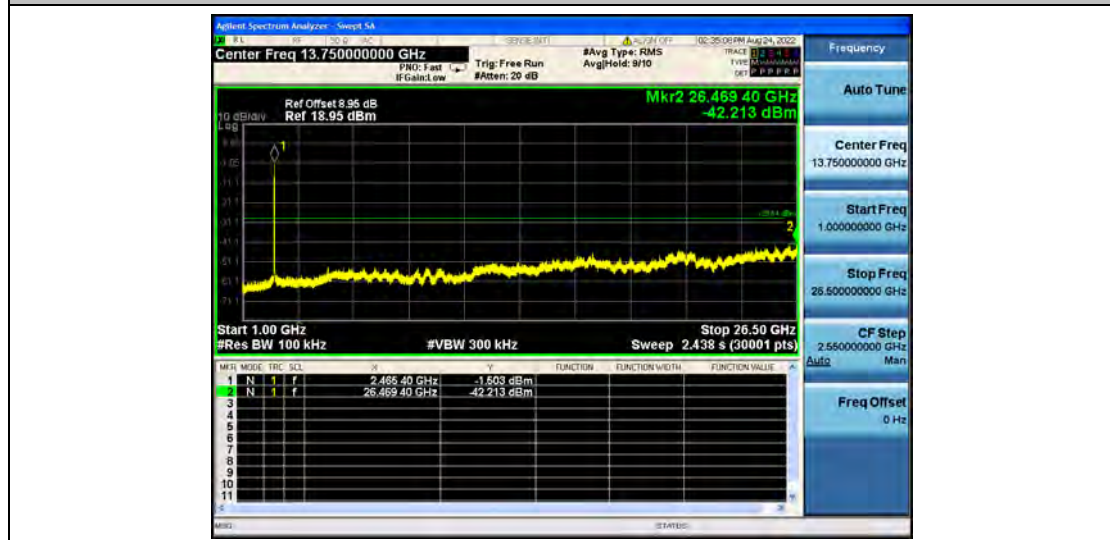


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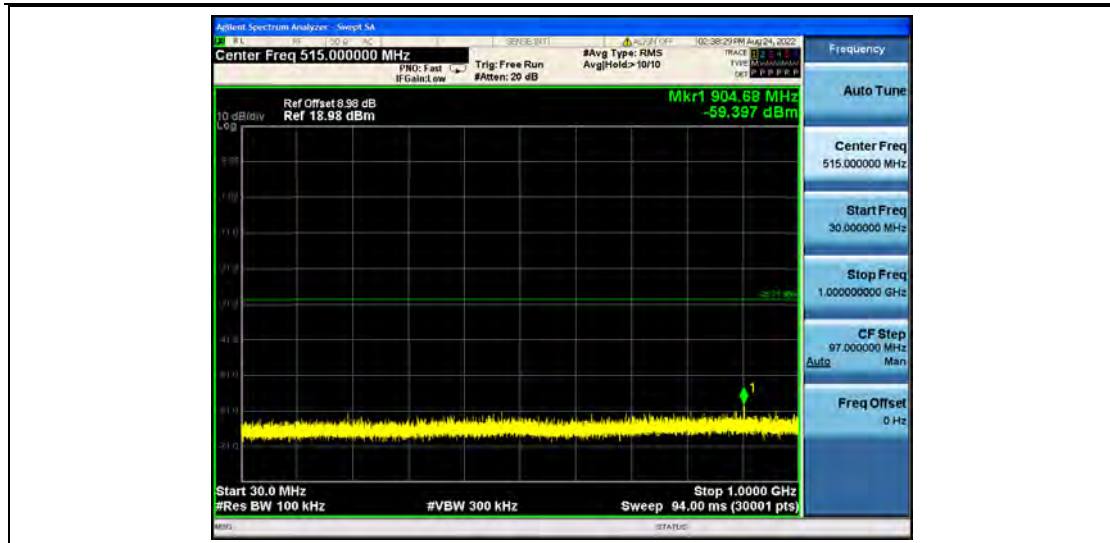
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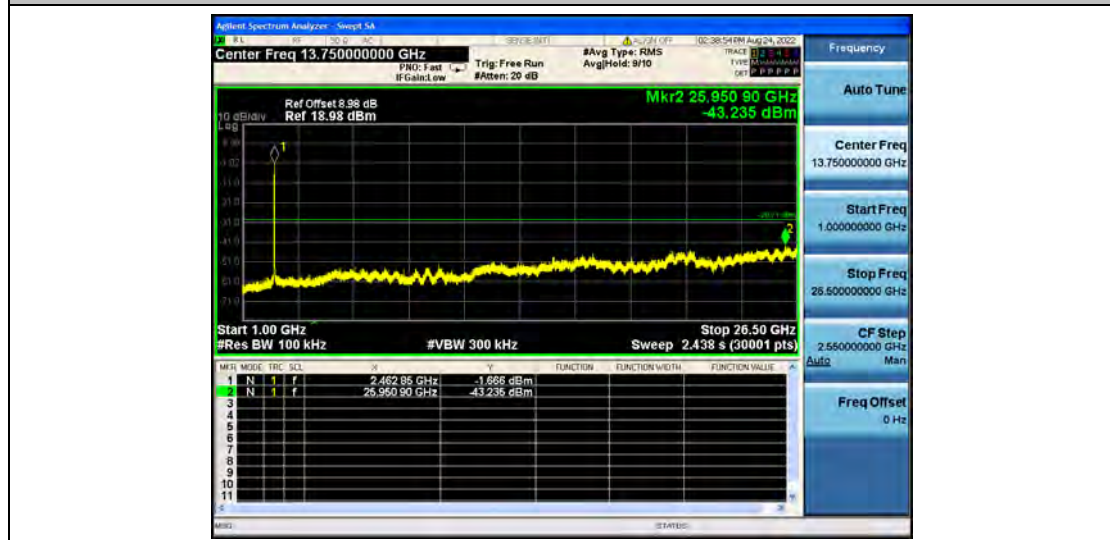
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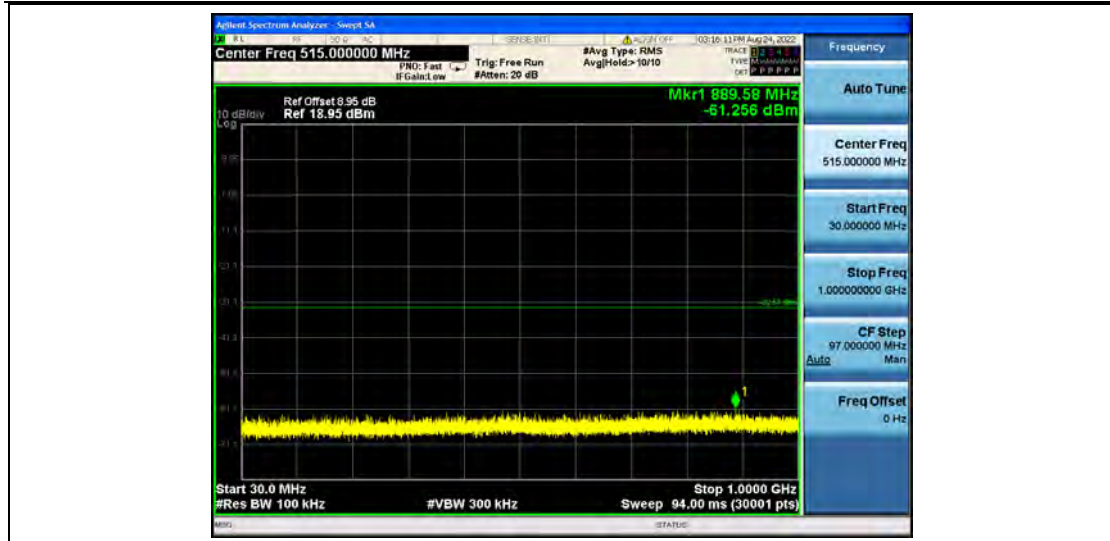


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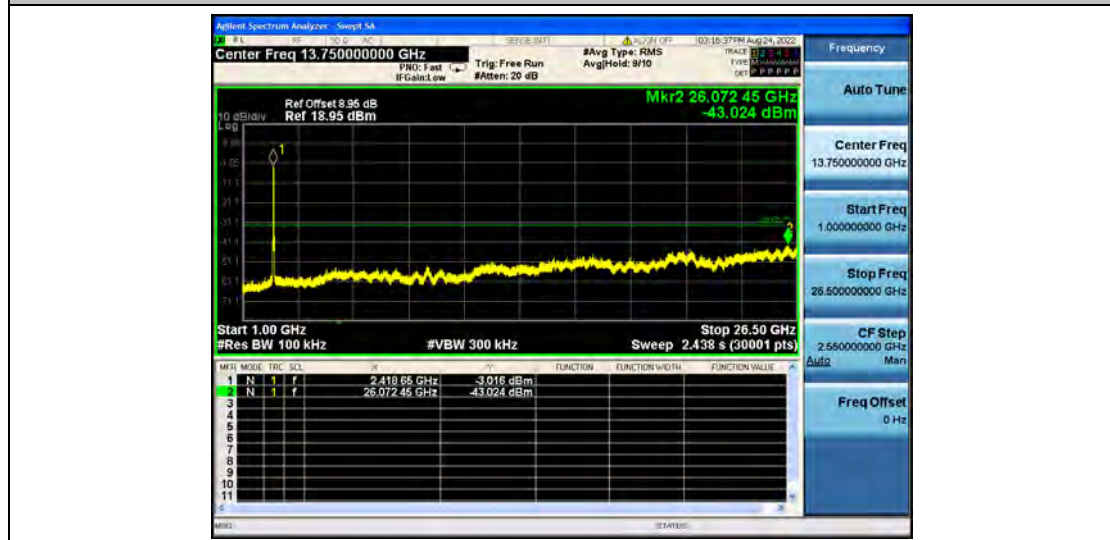


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11N40MIMO_Ant1_2422_1000~26500

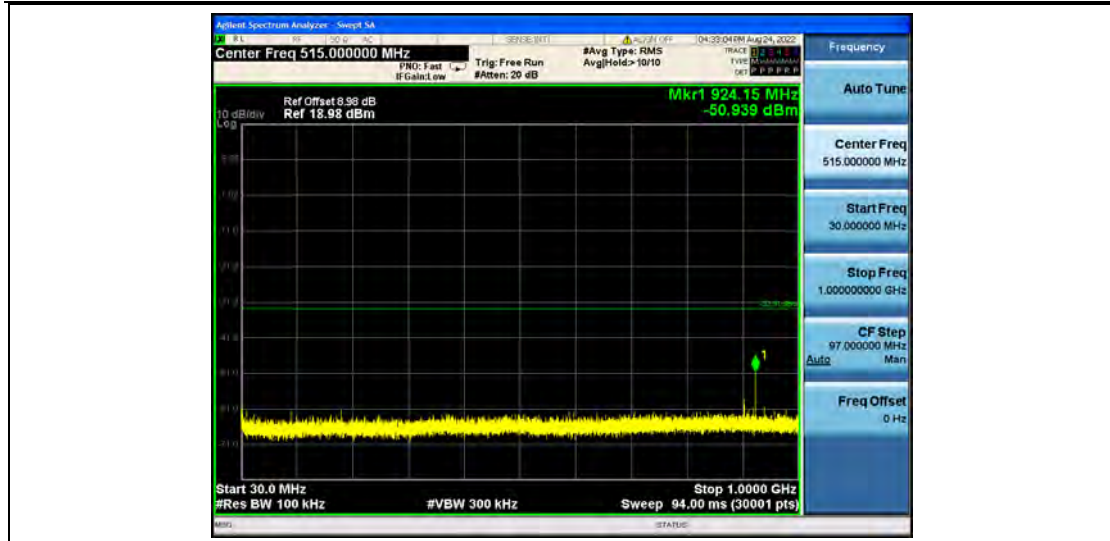


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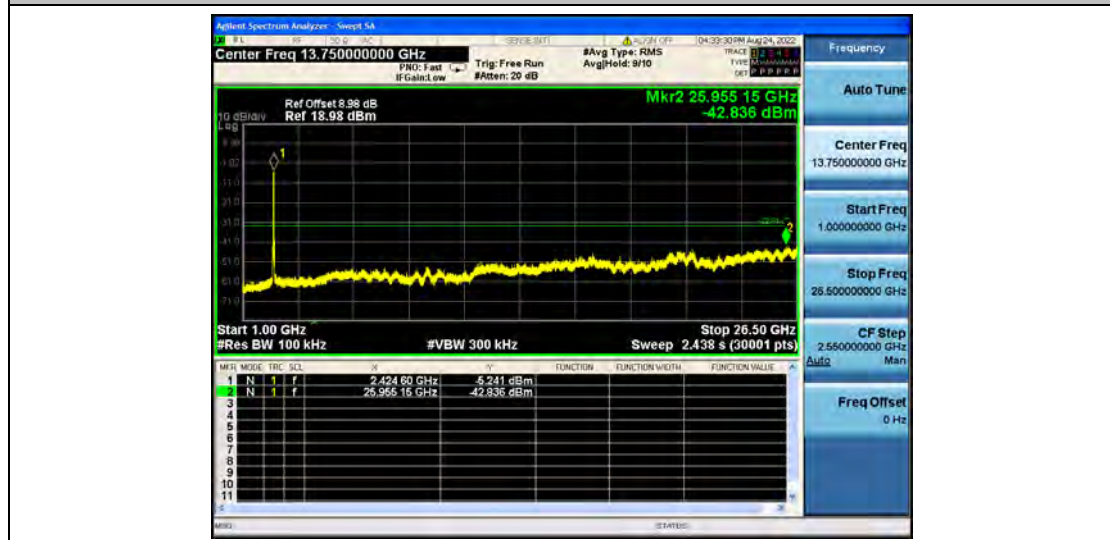


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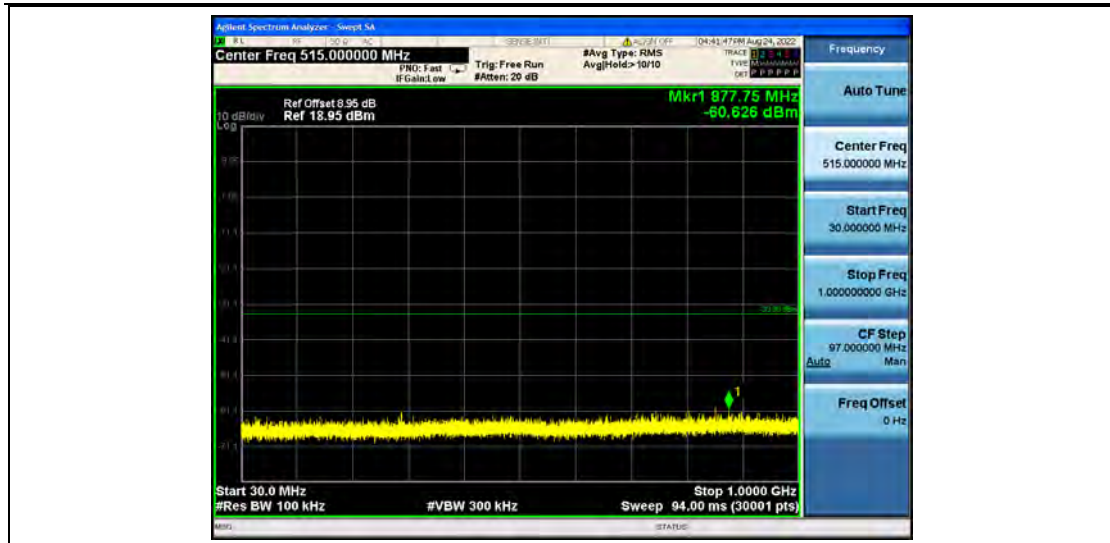


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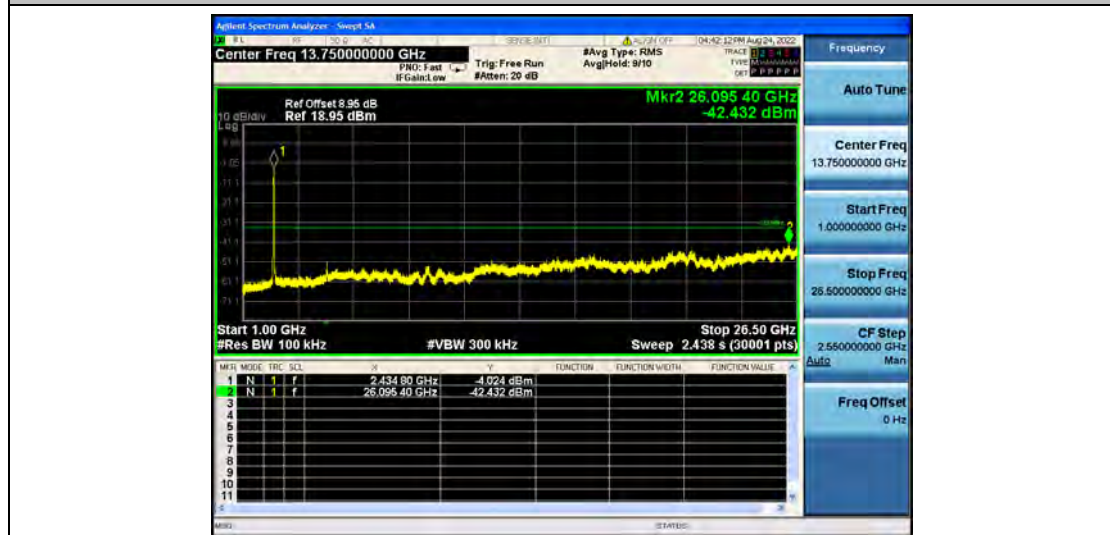


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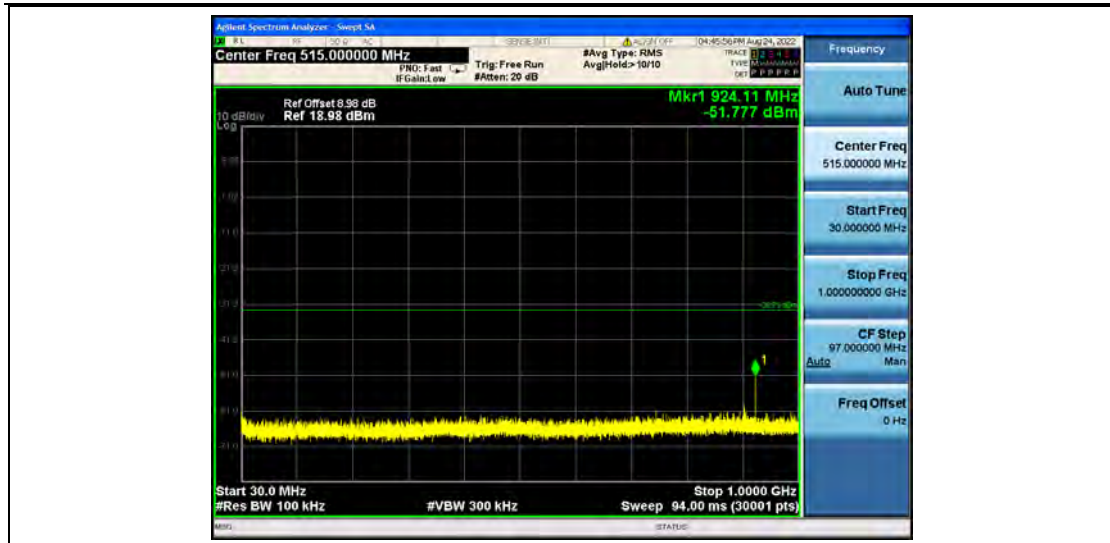
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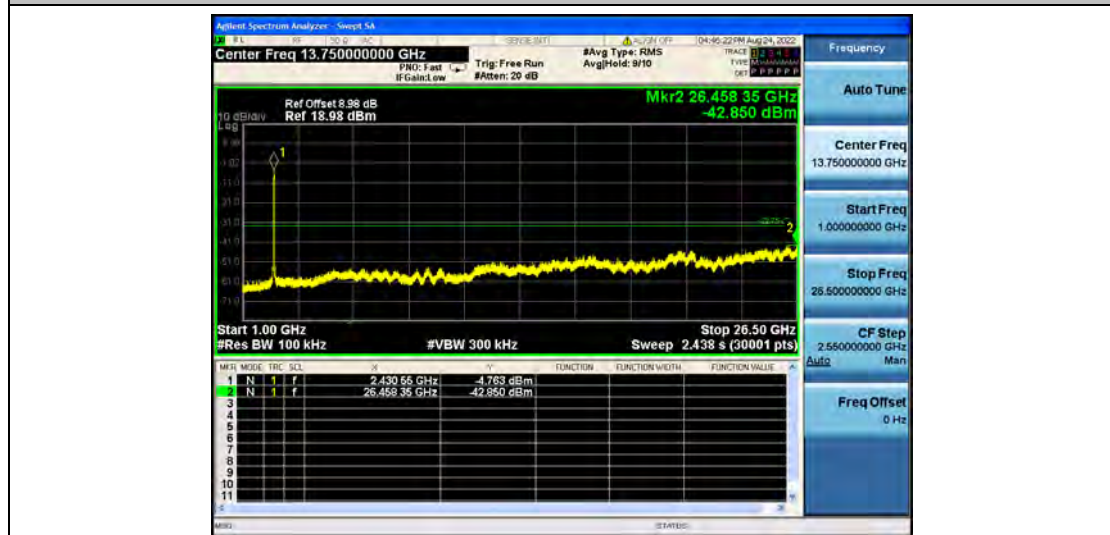
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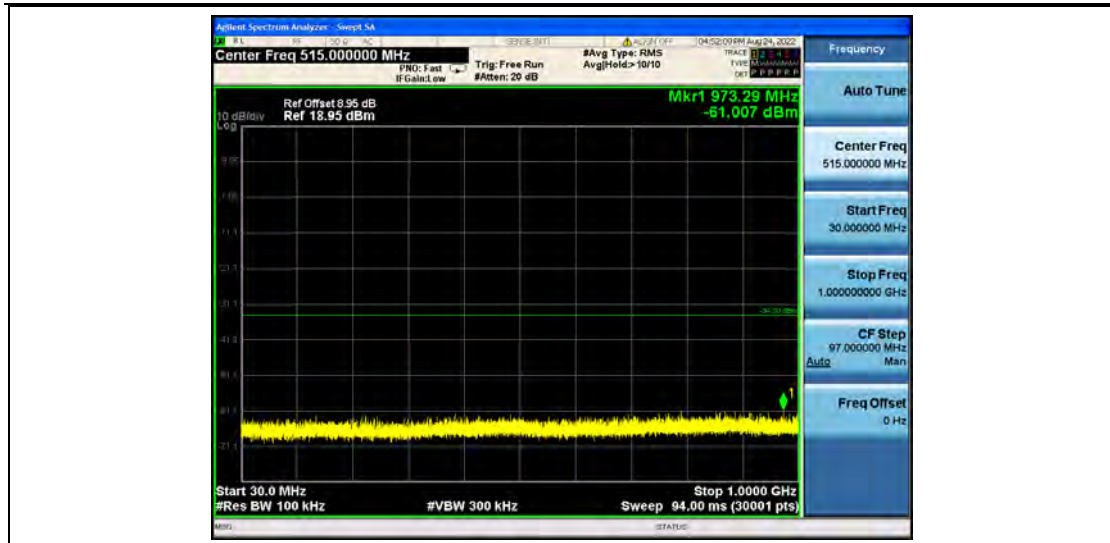


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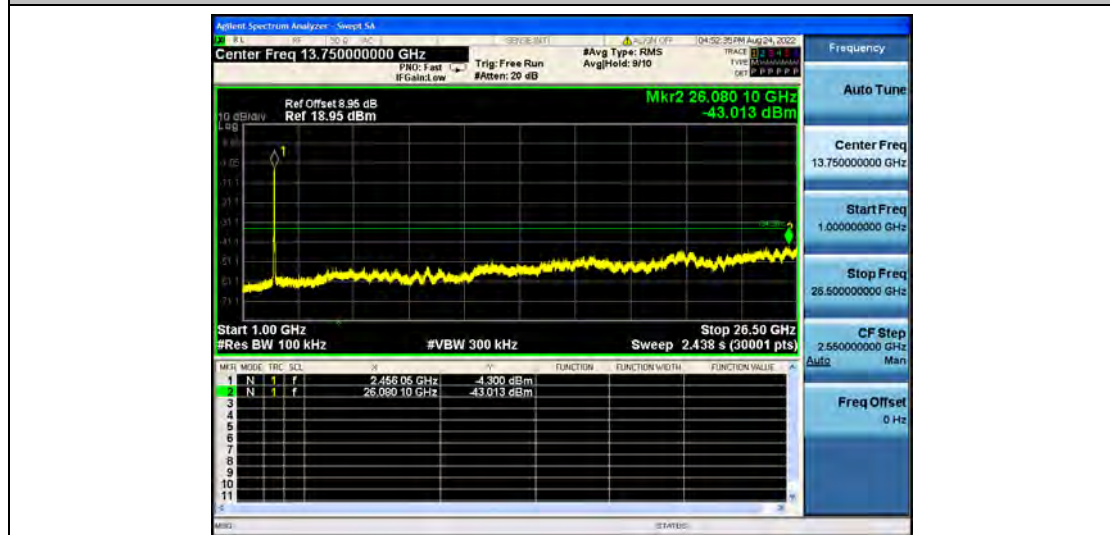


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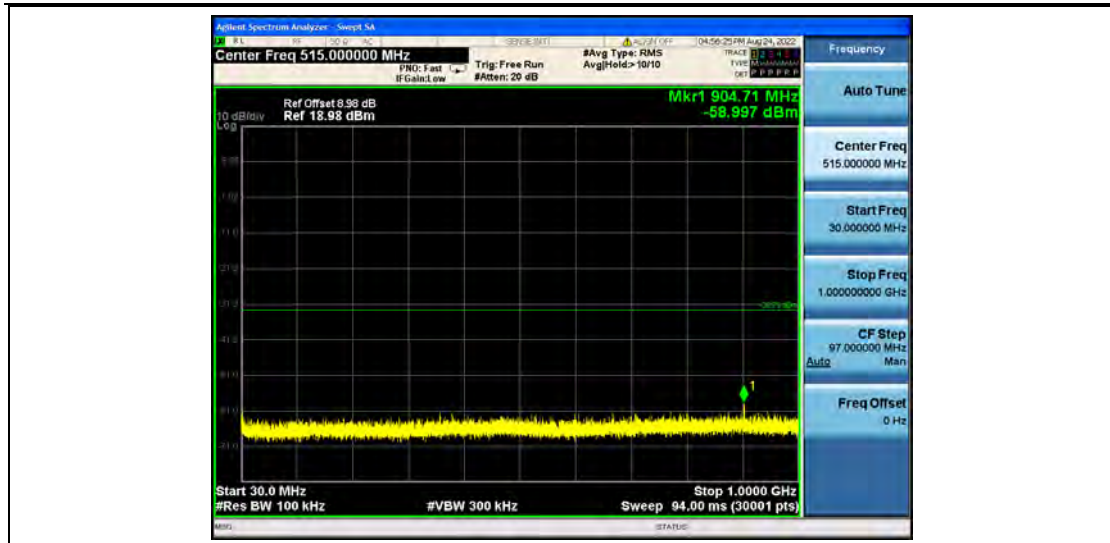
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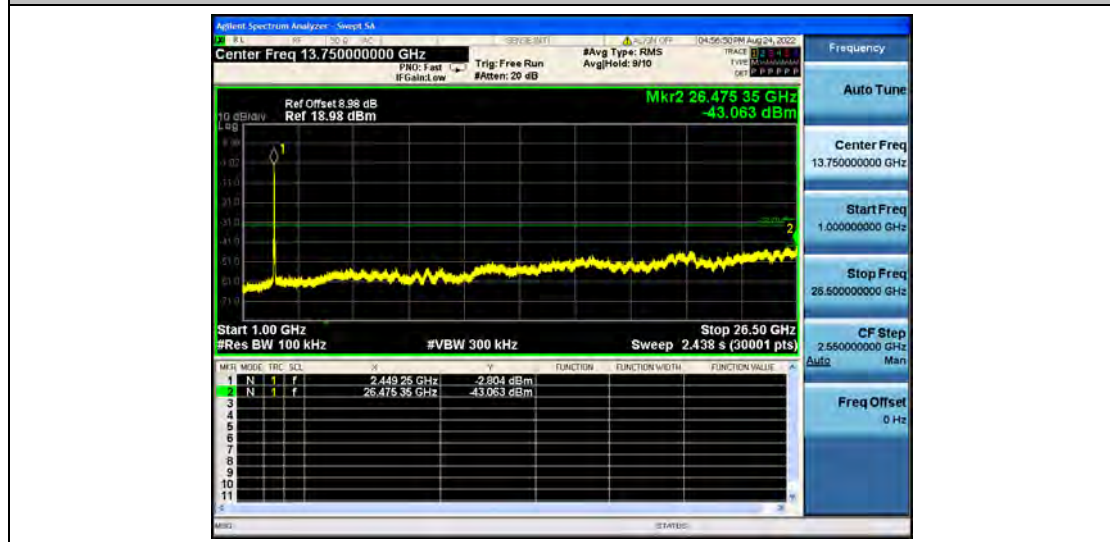
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11N40MIMO_Ant2_2452_1000~26500



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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.38	8.43	99.41	---	---
	Ant2	2412	8.38	8.43	99.41	---	---
	Ant1	2437	8.38	8.44	99.29	---	---
	Ant2	2437	8.39	8.45	99.29	---	---
	Ant1	2462	8.39	8.44	99.41	---	---
	Ant2	2462	8.39	8.44	99.41	---	---
11G	Ant1	2412	1.39	1.46	95.21	---	---
	Ant2	2412	1.39	1.45	95.86	---	---
	Ant1	2437	1.39	1.45	95.86	---	---
	Ant2	2437	1.39	1.45	95.86	---	---
	Ant1	2462	1.40	1.46	95.89	---	---
	Ant2	2462	1.40	1.46	95.89	---	---
11N20MIMO	Ant1	2412	1.31	1.37	95.62	---	---
	Ant2	2412	1.30	1.36	95.59	---	---
	Ant1	2437	1.30	1.37	94.89	---	---
	Ant2	2437	1.30	1.37	94.89	---	---
	Ant1	2462	1.30	1.36	95.59	---	---
	Ant2	2462	1.30	1.36	95.59	---	---
11N40MIMO	Ant1	2422	0.65	0.71	91.55	---	---
	Ant2	2422	0.65	0.71	91.55	---	---
	Ant1	2437	0.65	0.71	91.55	---	---
	Ant2	2437	0.65	0.71	91.55	---	---
	Ant1	2452	0.65	0.71	91.55	---	---
	Ant2	2452	0.65	0.71	91.55	---	---

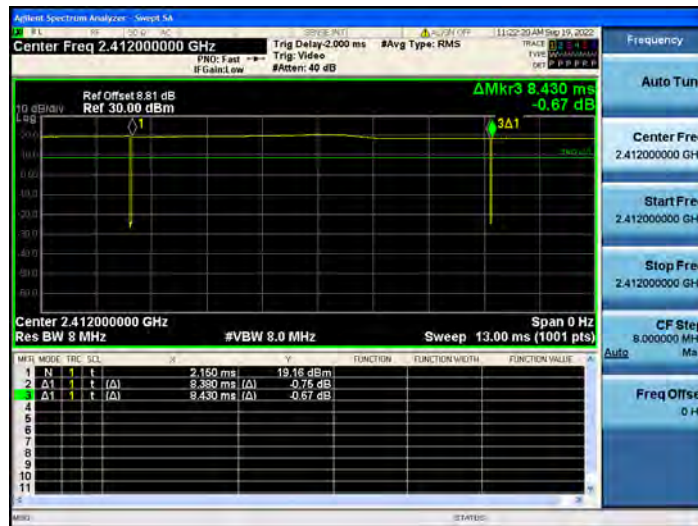


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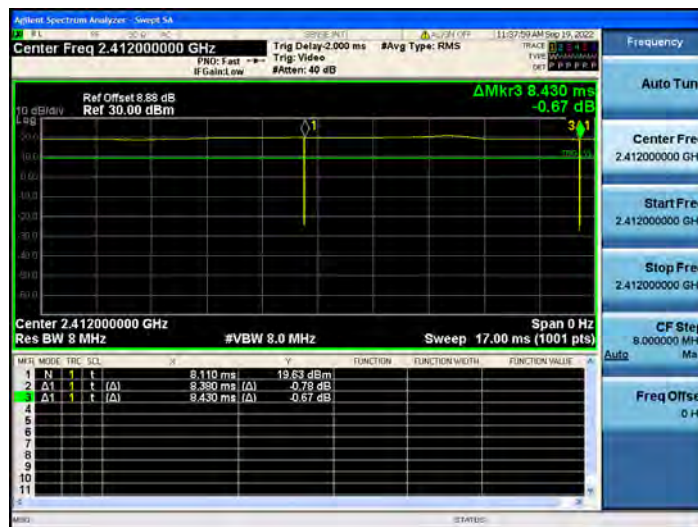
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Test Graphs

11B_Ant1_2412



11B_Ant2_2412

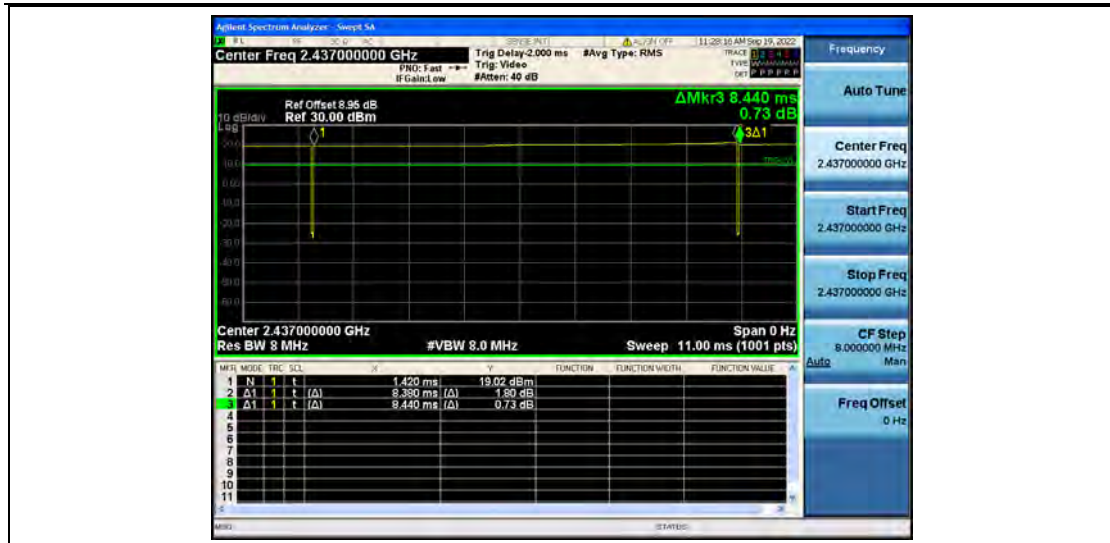


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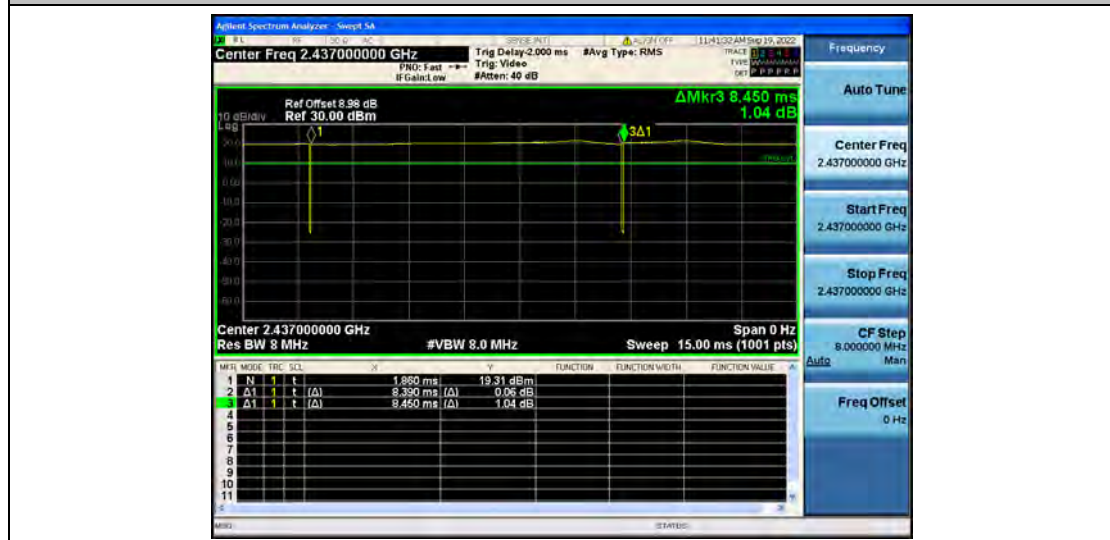


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11B_Ant2_2437

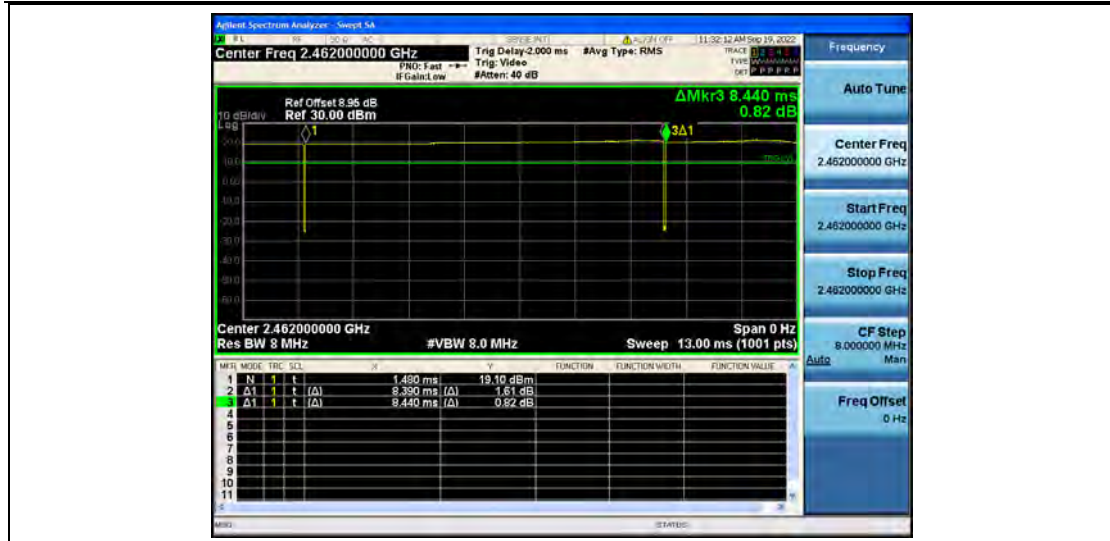


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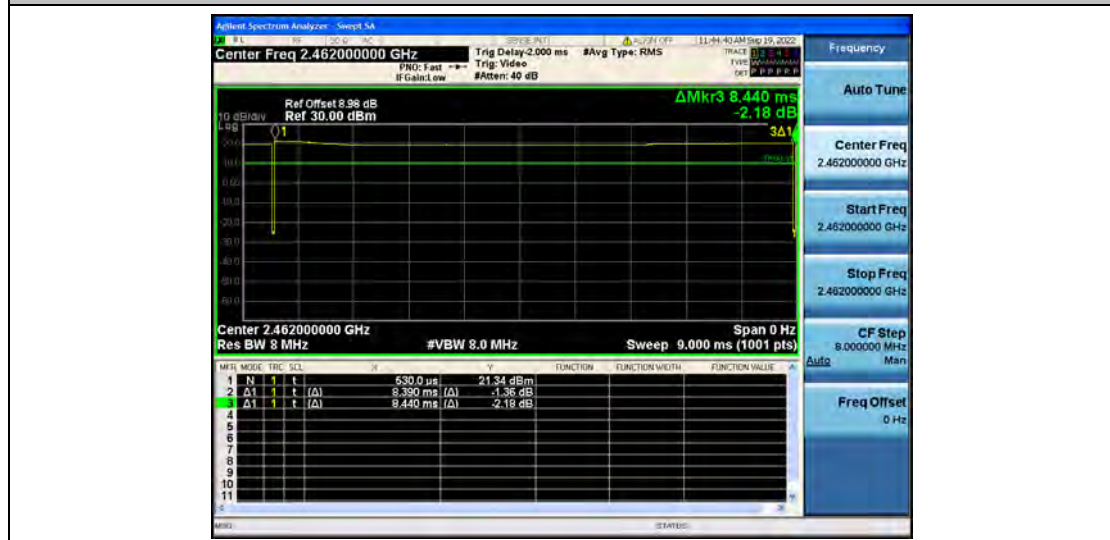


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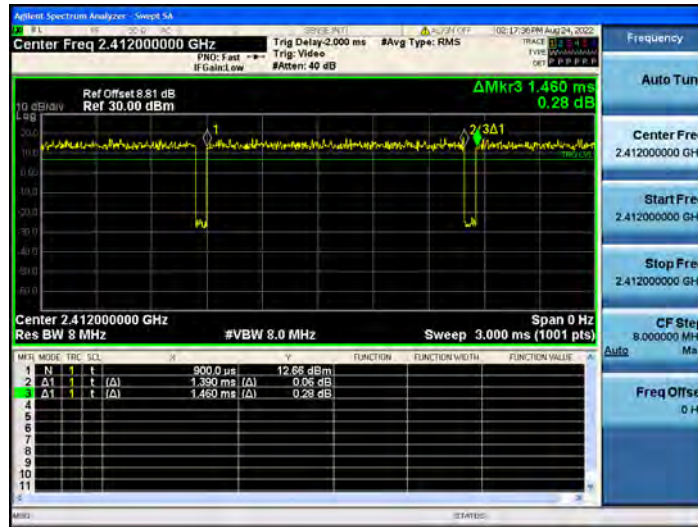


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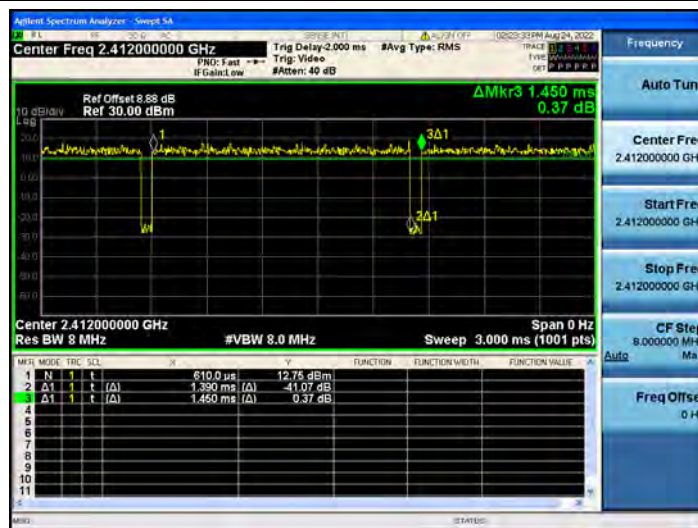


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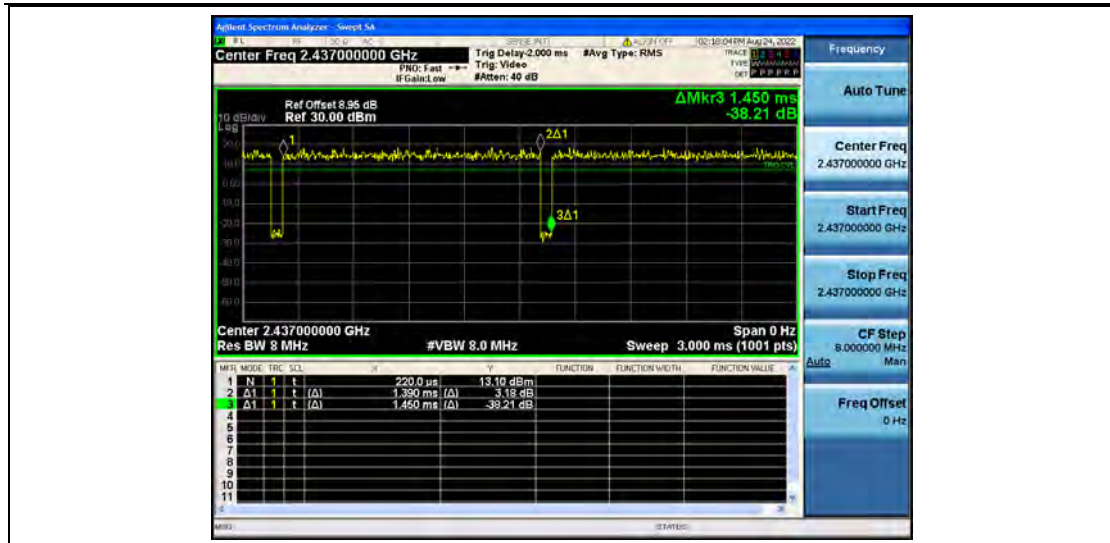


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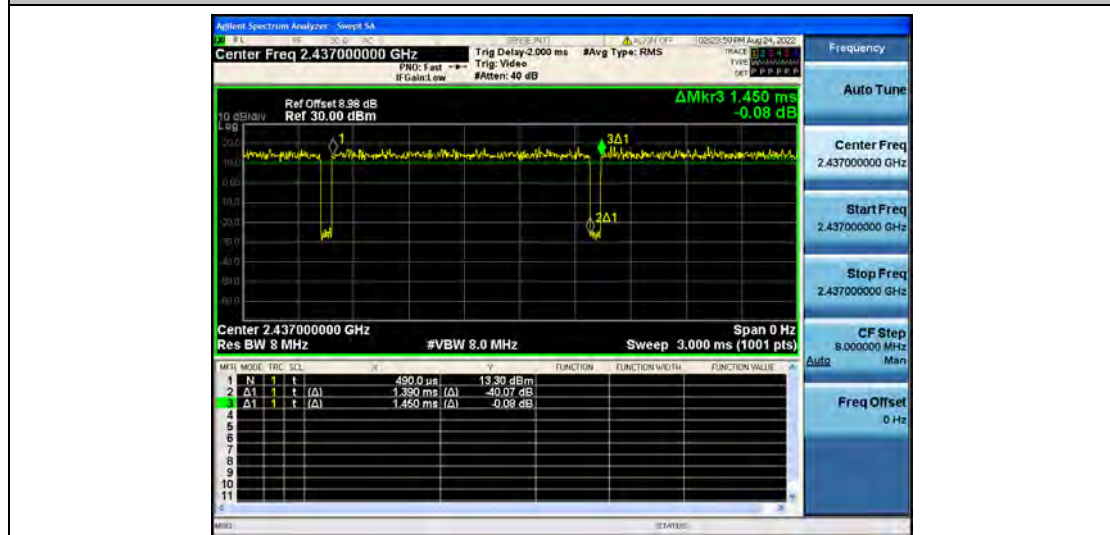


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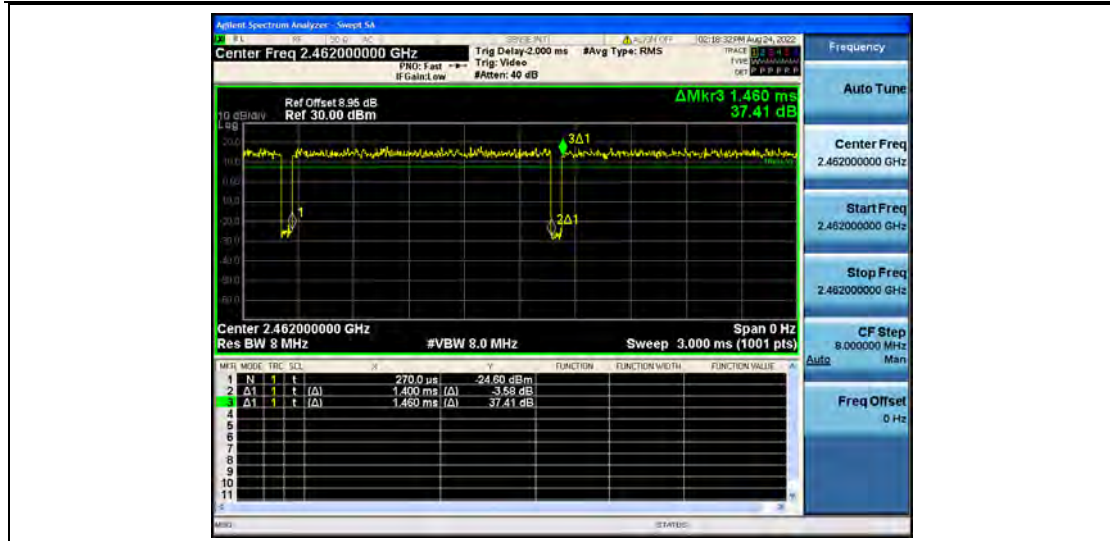


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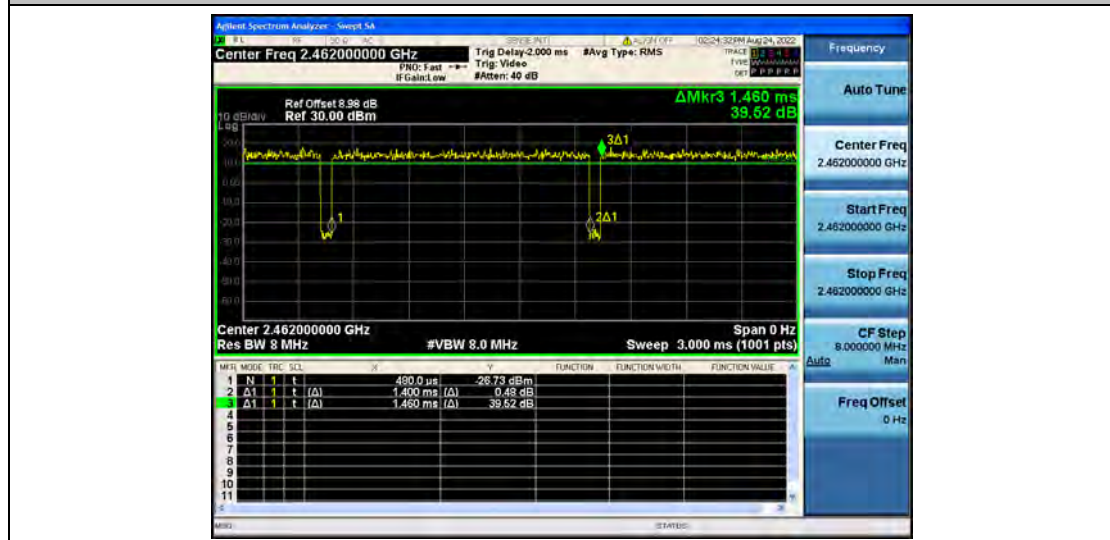


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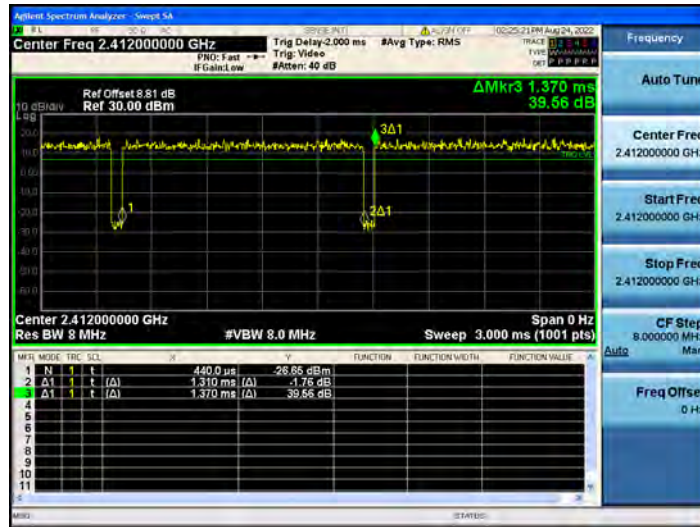


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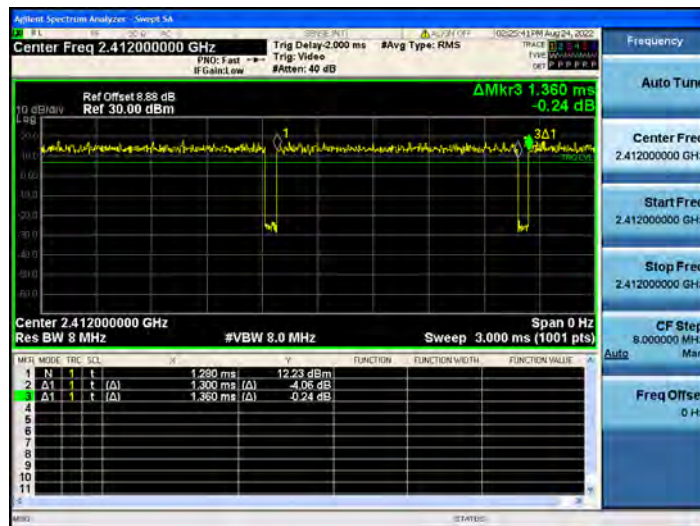


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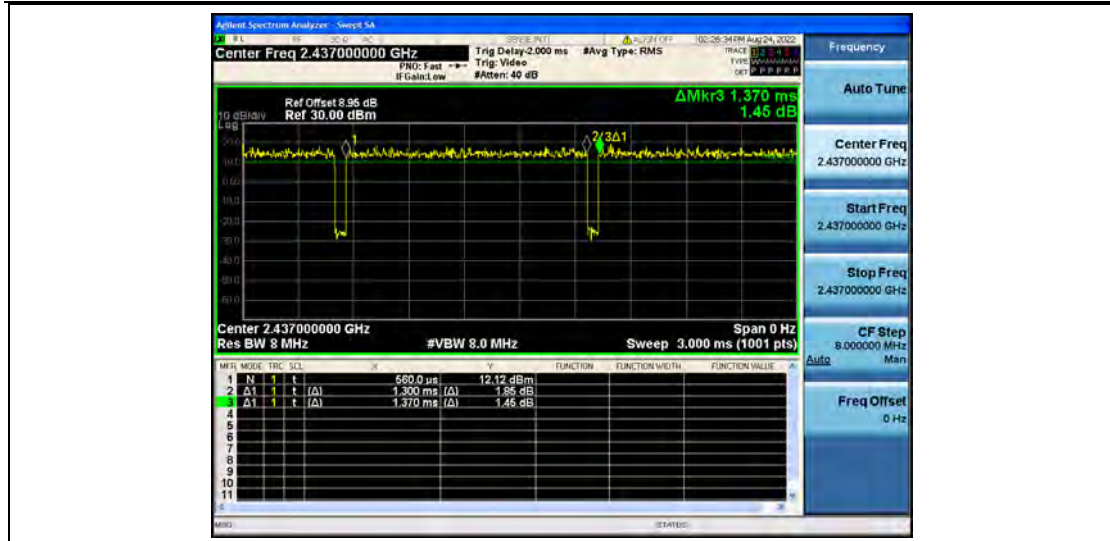


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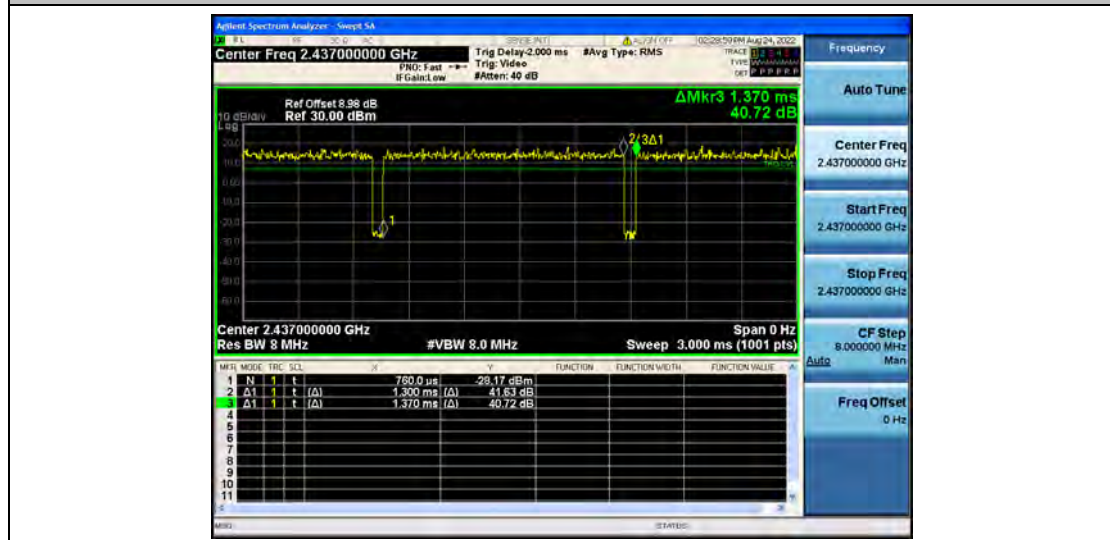


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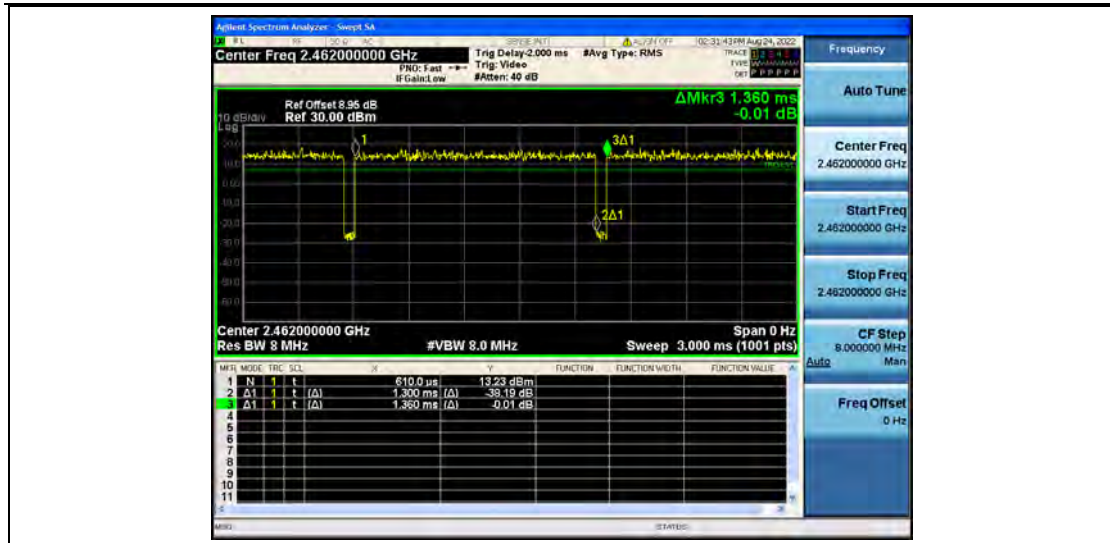


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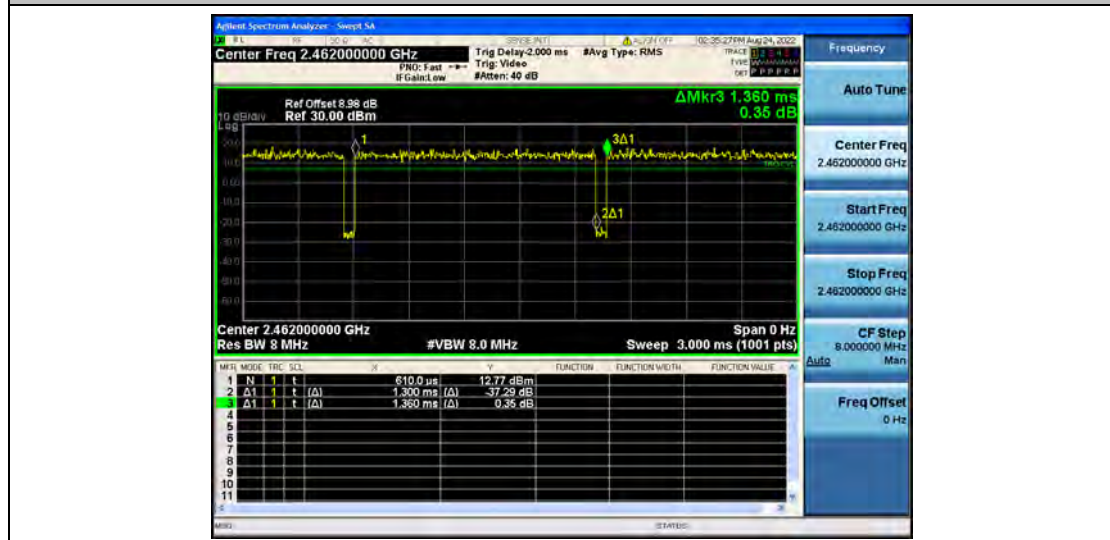


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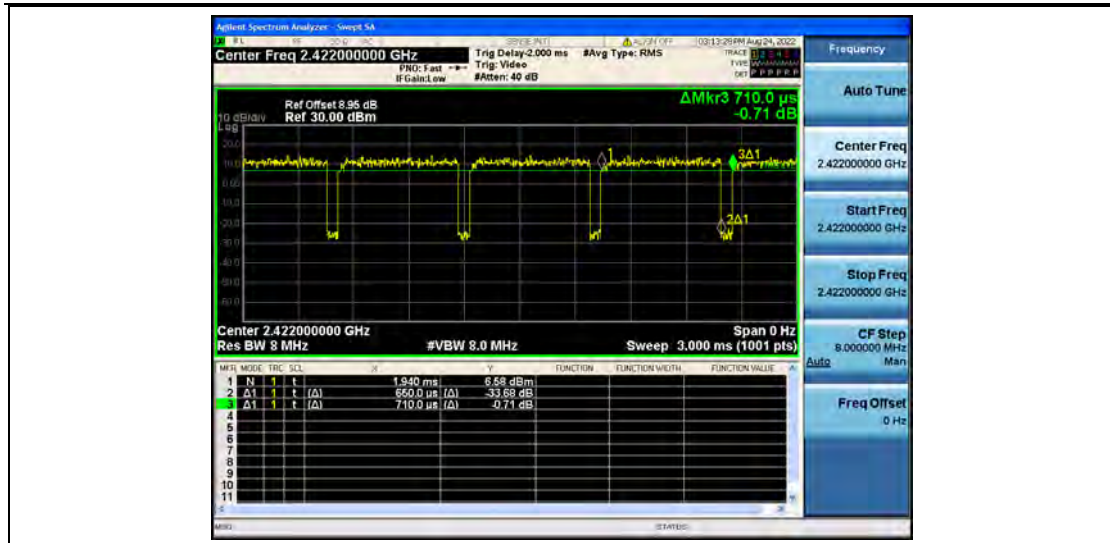


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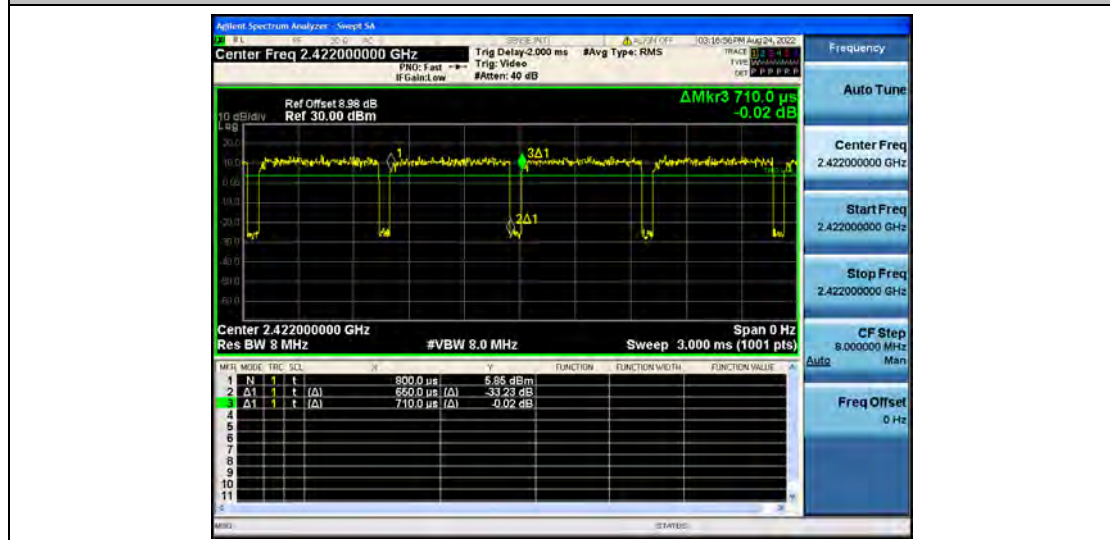


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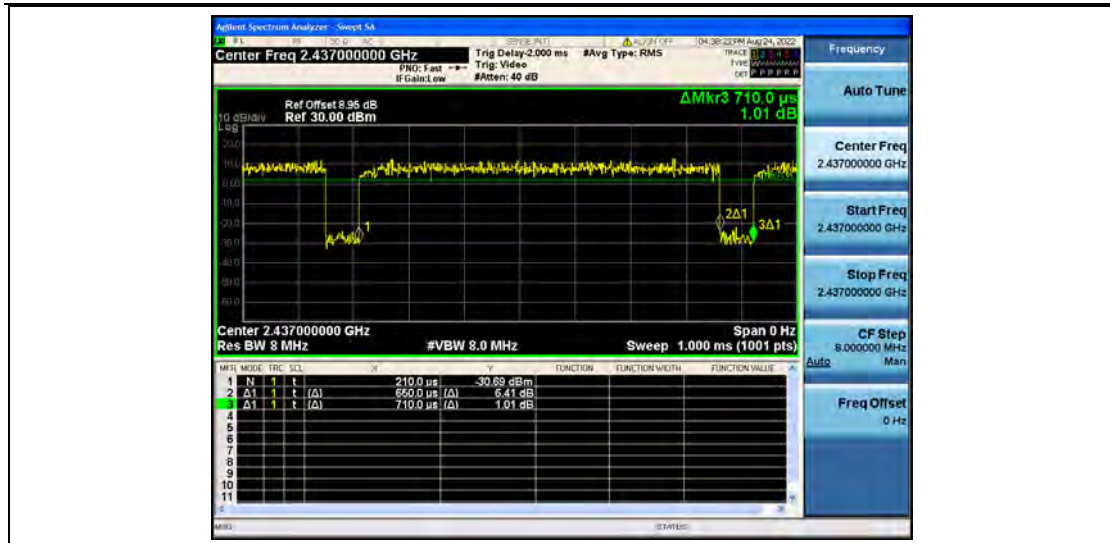


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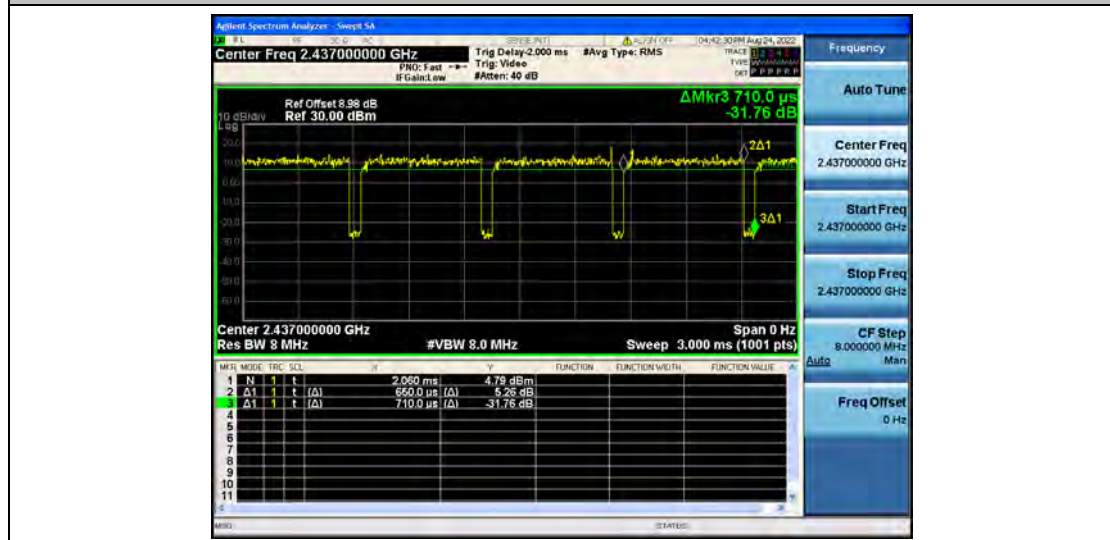


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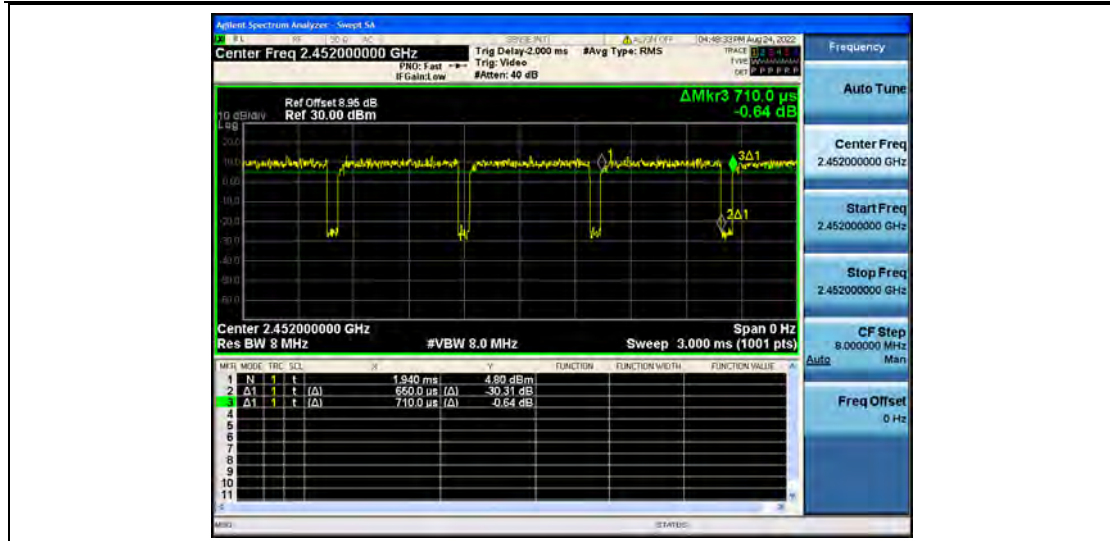


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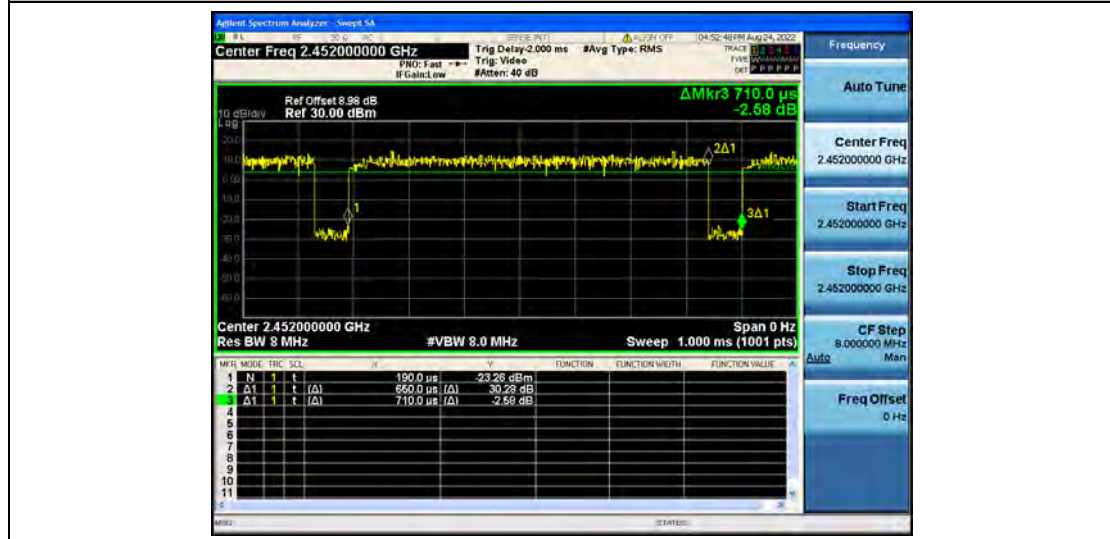


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