8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2304000791ME

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2304000791ME

10 Appendix

10.1 Appendix A1: Emission Bandwidth

10.1.1 Test Result

Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.320	5169.280	5190.600	---	---
	Ant2	5180	21.920	5168.880	5190.800	---	---
	Ant1	5220	21.080	5209.440	5230.520	---	---
	Ant2	5220	21.920	5208.960	5230.880	---	---
	Ant1	5240	21.200	5229.480	5250.680	---	---
	Ant2	5240	21.880	5229.080	5250.960	---	---
11N20MIMO	Ant1	5180	21.840	5169.200	5191.040	---	---
	Ant2	5180	21.400	5169.240	5190.640	---	---
	Ant1	5220	21.720	5209.120	5230.840	---	---
	Ant2	5220	21.760	5209.200	5230.960	---	---
	Ant1	5240	21.880	5229.280	5251.160	---	---
	Ant2	5240	21.400	5229.360	5250.760	---	---
11N40MIMO	Ant1	5190	43.760	5168.400	5212.160	---	---
	Ant2	5190	42.240	5168.880	5211.120	---	---
	Ant1	5230	43.440	5208.240	5251.680	---	---
	Ant2	5230	41.520	5209.280	5250.800	---	---
11AC20MIMO	Ant1	5180	21.680	5169.120	5190.800	---	---
	Ant2	5180	21.840	5169.160	5191.000	---	---
	Ant1	5220	21.680	5209.320	5231.000	---	---
	Ant2	5220	21.200	5209.520	5230.720	---	---
	Ant1	5240	21.960	5229.040	5251.000	---	---
	Ant2	5240	21.160	5229.520	5250.680	---	---
11AC40MIMO	Ant1	5190	43.680	5168.320	5212.000	---	---
	Ant2	5190	42.240	5168.800	5211.040	---	---
	Ant1	5230	43.520	5208.000	5251.520	---	---
	Ant2	5230	41.440	5209.280	5250.720	---	---
11AC80MIMO	Ant1	5210	81.600	5169.520	5251.120	---	---
	Ant2	5210	80.640	5169.840	5250.480	---	---

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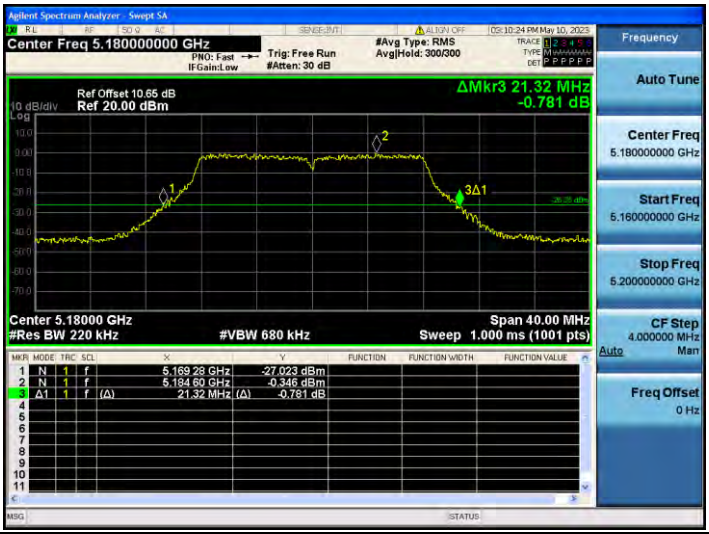
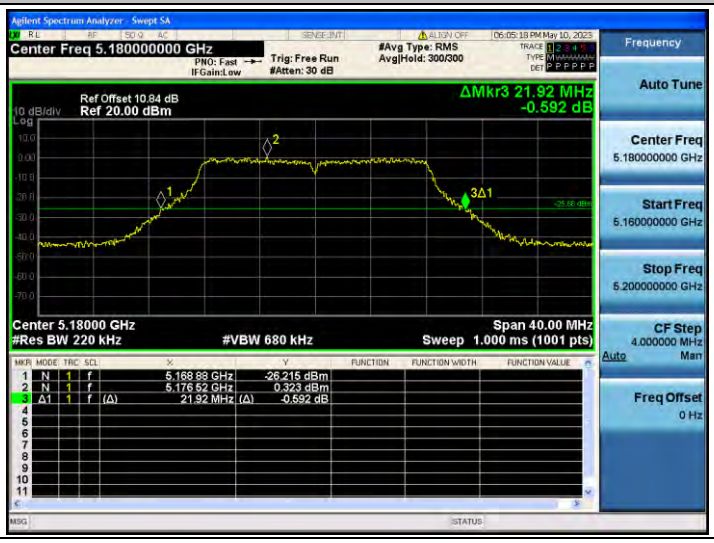
10.1.2 Test Graphs

11A_Ant1_5180



11A_Ant2_5180



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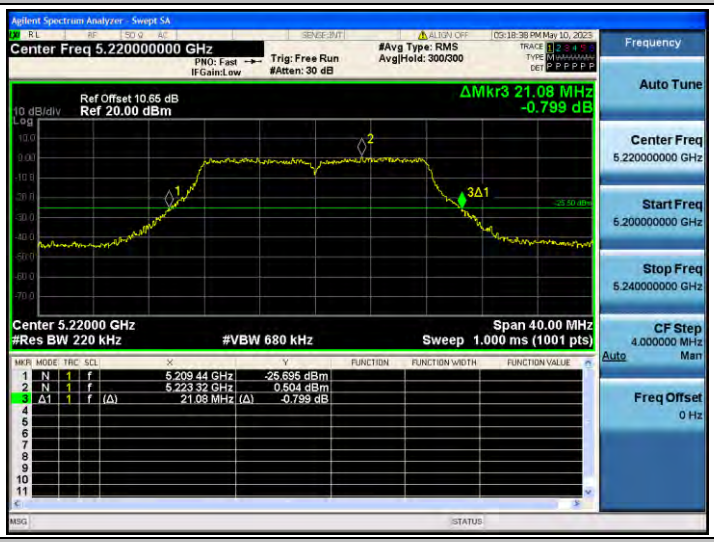
11A_Ant1_5220



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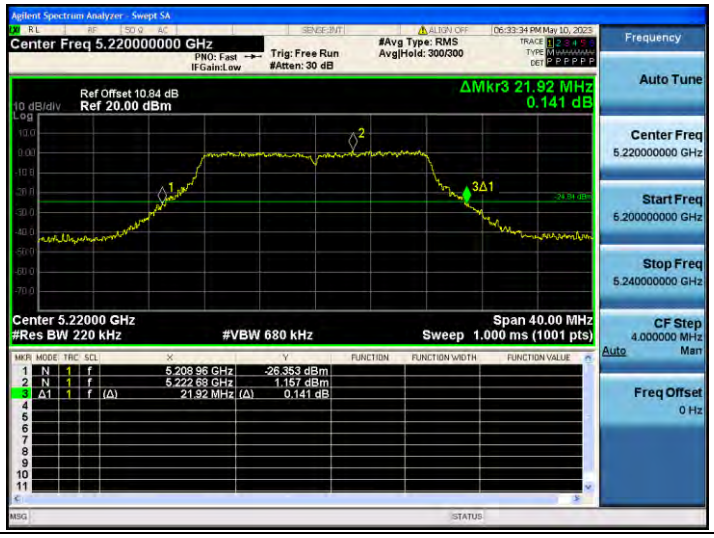

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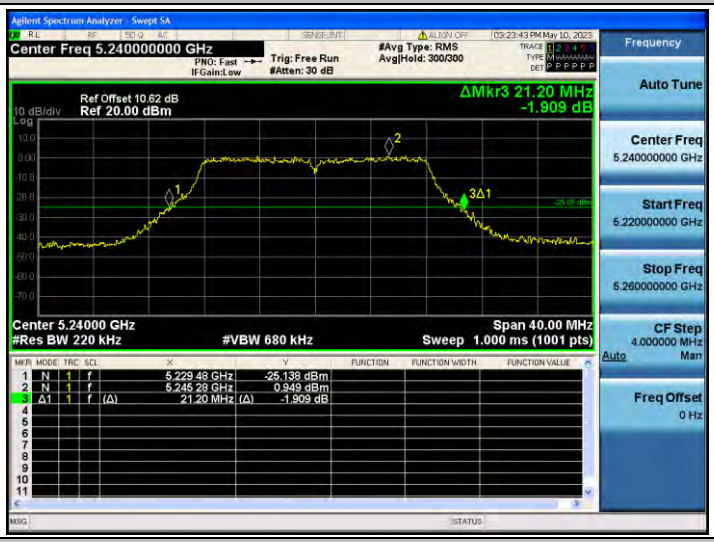
11A_Ant1_5240



11A_Ant2_5240

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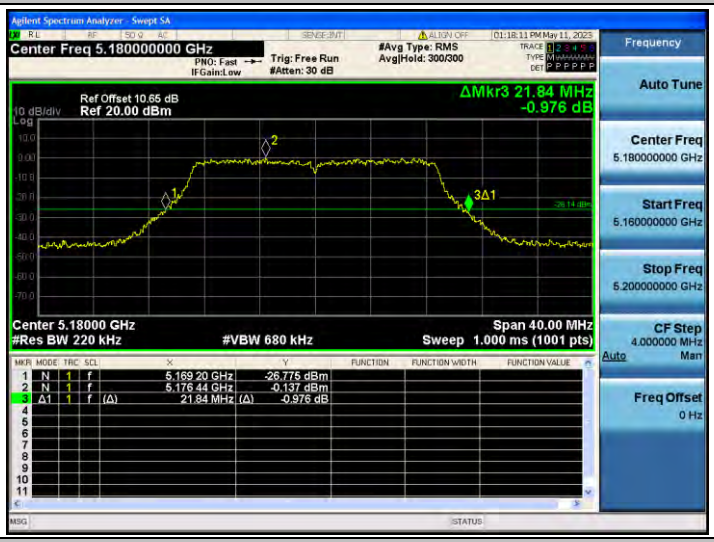
11N20MIMO_Ant1_5180



11N20MIMO_Ant2_5180

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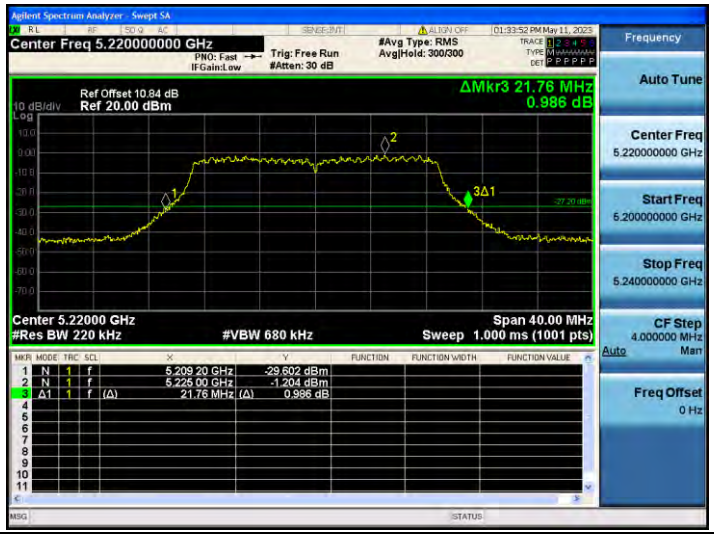
11N20MIMO_Ant1_5220

11N20MIMO_Ant2_5220



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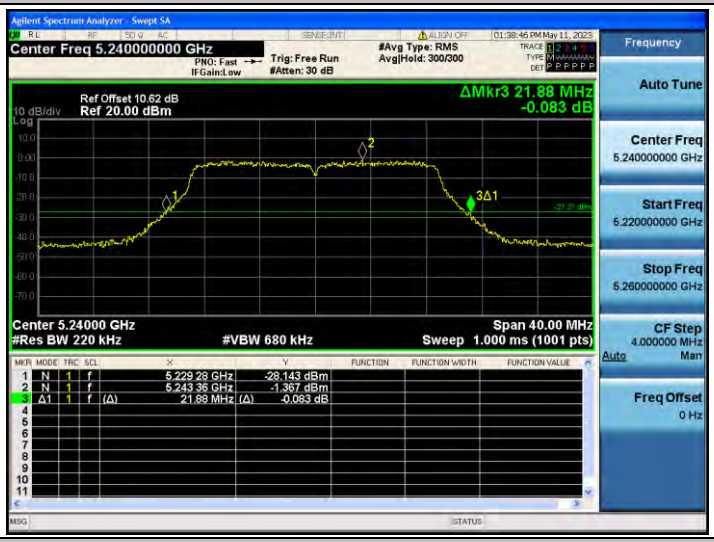
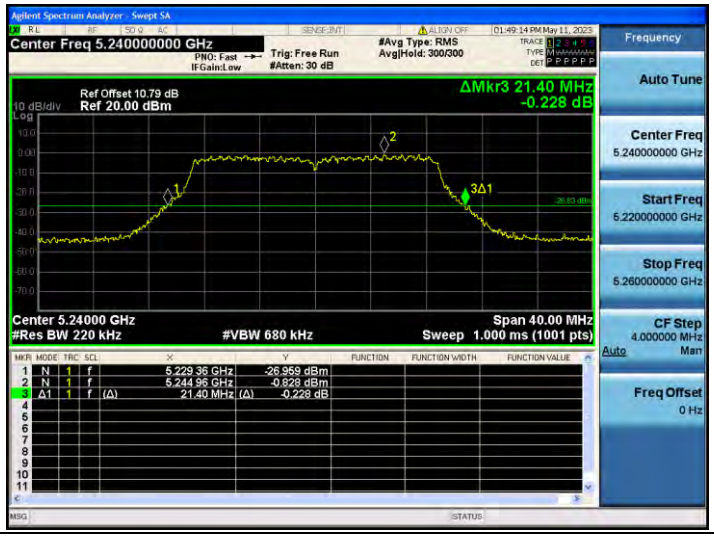
11N20MIMO_Ant1_5240



11N20MIMO_Ant2_5240



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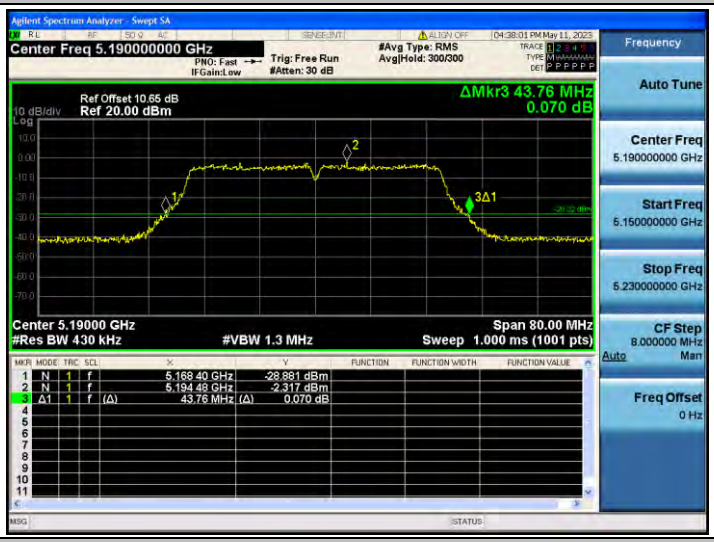
11N40MIMO_Ant1_5190



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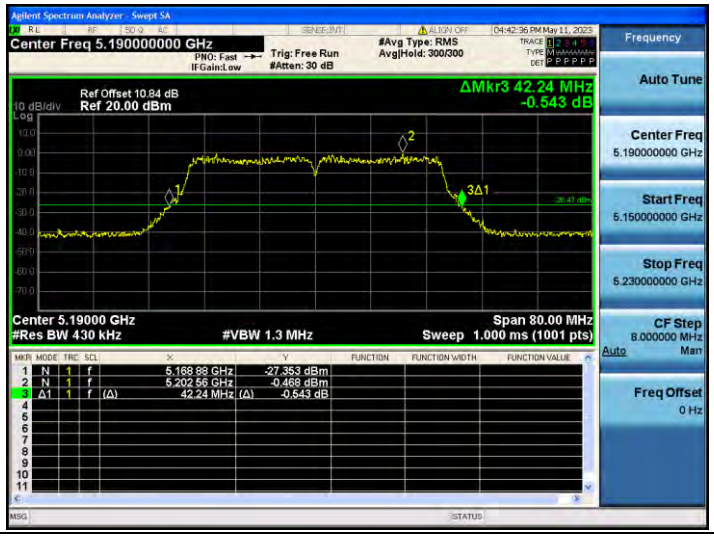

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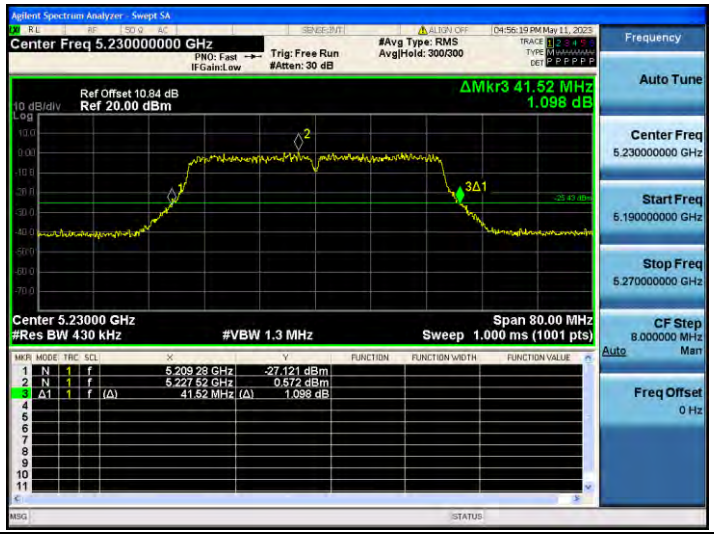
11N40MIMO_Ant1_5230

11N40MIMO_Ant2_5230



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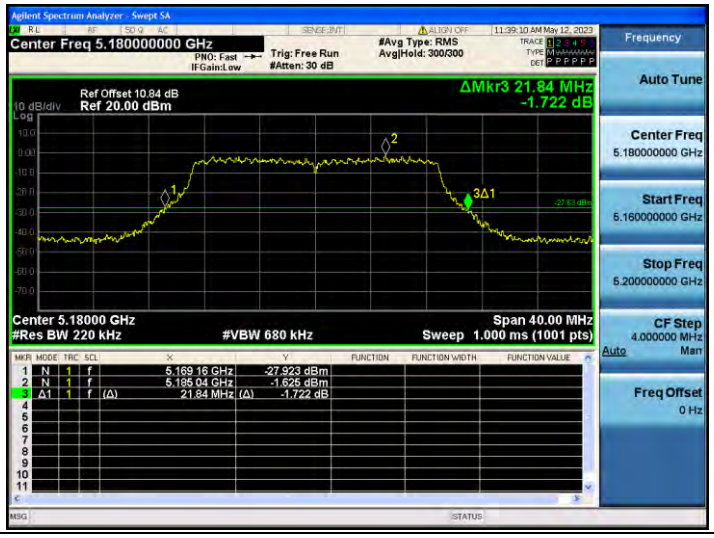
11AC20MIMO_Ant1_5180

11AC20MIMO_Ant2_5180



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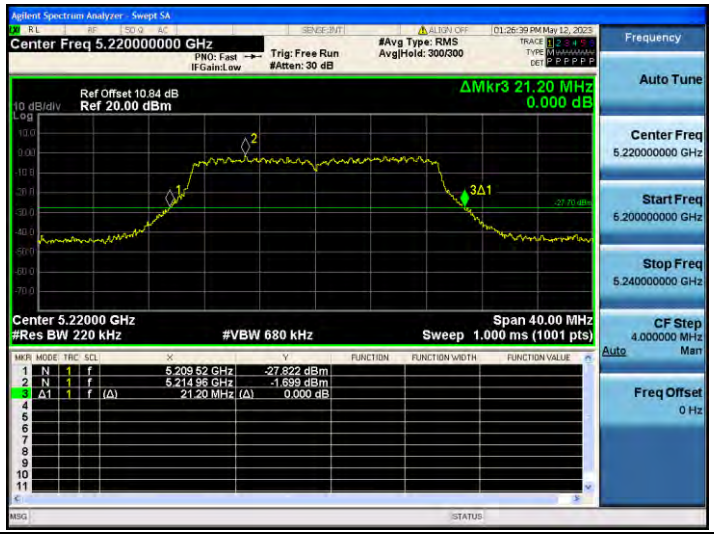
11AC20MIMO_Ant1_5220

11AC20MIMO_Ant2_5220



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11AC20MIMO_Ant1_5240

11AC20MIMO_Ant2_5240

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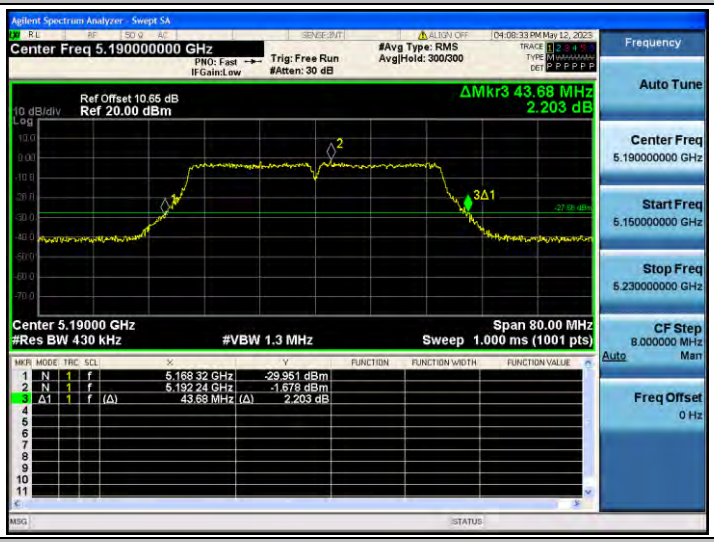
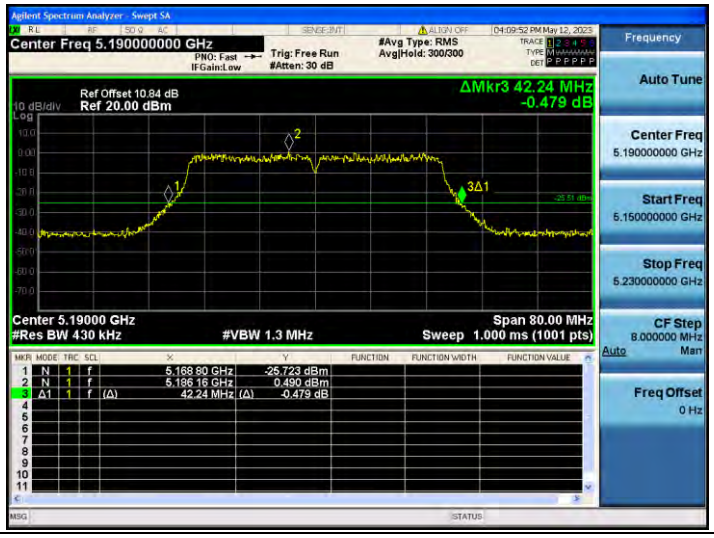


11AC40MIMO_Ant2_5190



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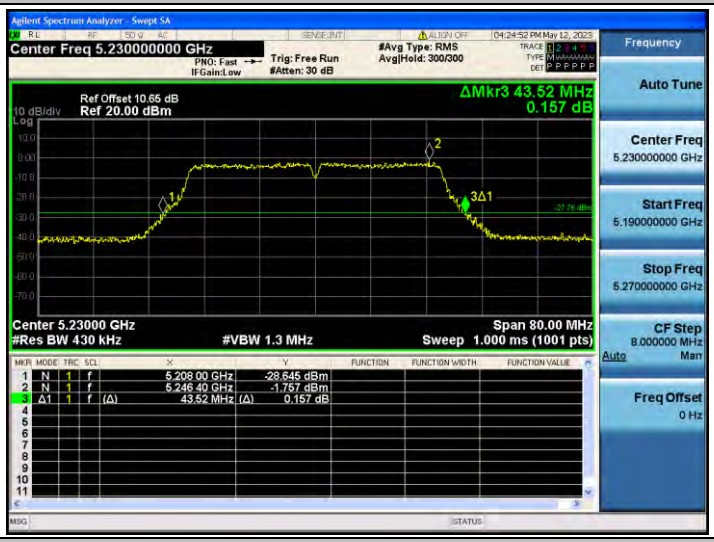
11AC40MIMO_Ant1_5230



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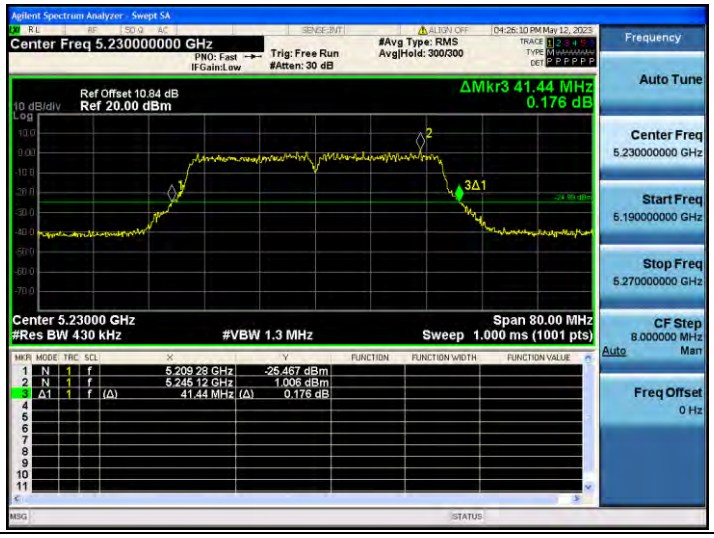

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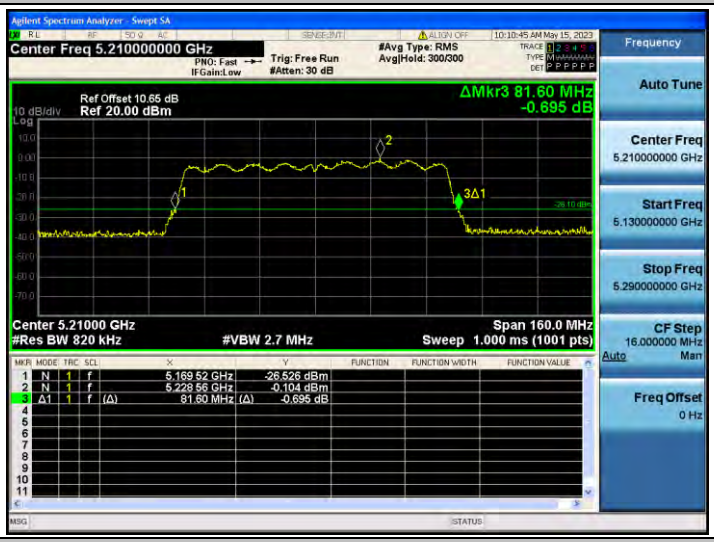
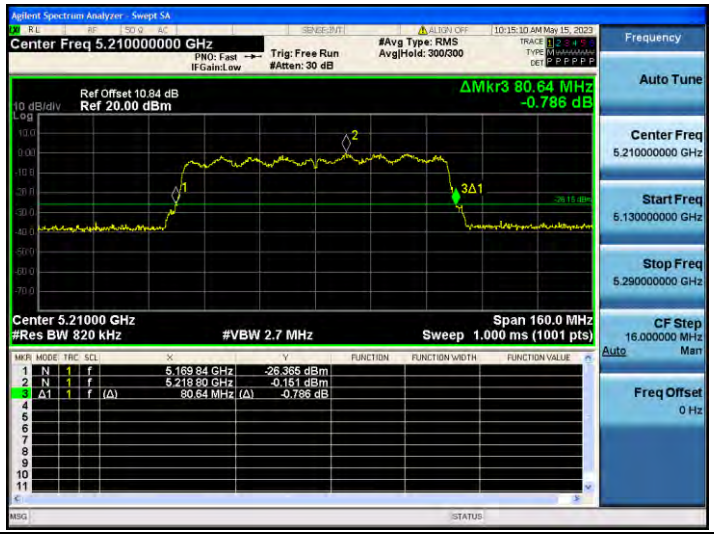
11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



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10.2 Appendix A2: Occupied channel bandwidth

10.2.1 Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.183	5171.3758	5188.5588	---	---
	Ant2	5180	17.336	5171.2996	5188.6356	---	---
	Ant1	5220	17.184	5211.4236	5228.6076	---	---
	Ant2	5220	17.307	5211.3848	5228.6918	---	---
	Ant1	5240	17.165	5231.4191	5248.5841	---	---
	Ant2	5240	17.310	5231.3636	5248.6736	---	---
11N20MIMO	Ant1	5180	18.164	5170.9159	5189.0799	---	---
	Ant2	5180	17.925	5171.0494	5188.9744	---	---
	Ant1	5220	18.150	5210.9353	5229.0853	---	---
	Ant2	5220	17.911	5211.0934	5229.0044	---	---
	Ant1	5240	18.145	5230.9555	5249.1005	---	---
	Ant2	5240	17.914	5231.0574	5248.9714	---	---
11N40MIMO	Ant1	5190	37.088	5171.4705	5208.5585	---	---
	Ant2	5190	36.712	5171.6721	5208.3841	---	---
	Ant1	5230	36.998	5211.5360	5248.5340	---	---
	Ant2	5230	36.621	5211.7627	5248.3837	---	---
11AC20MIMO	Ant1	5180	18.174	5170.9096	5189.0836	---	---
	Ant2	5180	17.923	5171.0748	5188.9978	---	---
	Ant1	5220	18.170	5210.9587	5229.1287	---	---
	Ant2	5220	17.913	5211.0927	5229.0057	---	---
	Ant1	5240	18.160	5230.9392	5249.0992	---	---
	Ant2	5240	17.875	5231.1187	5248.9937	---	---
11AC40MIMO	Ant1	5190	37.127	5171.4633	5208.5903	---	---
	Ant2	5190	36.730	5171.6536	5208.3836	---	---
	Ant1	5230	37.009	5211.5790	5248.5880	---	---
	Ant2	5230	36.634	5211.7483	5248.3823	---	---
11AC80MIMO	Ant1	5210	75.584	5172.3598	5247.9438	---	---
	Ant2	5210	75.542	5172.4450	5247.9870	---	---

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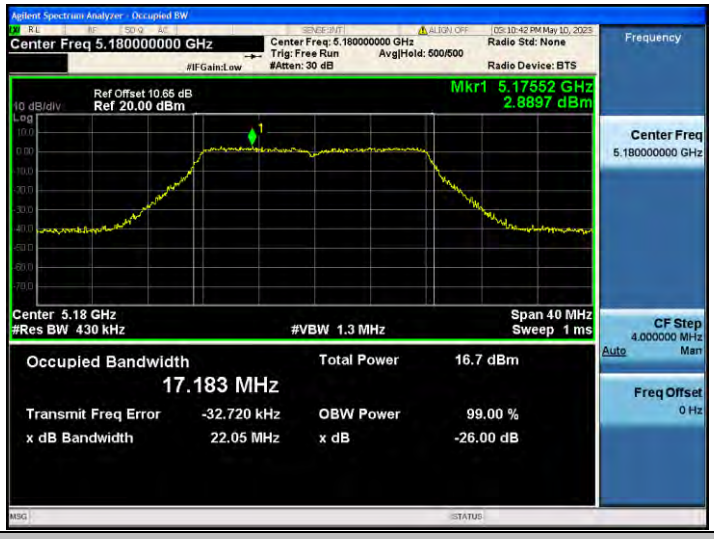
10.2.2 Test Graphs

11A_Ant1_5180



11A_Ant2_5180

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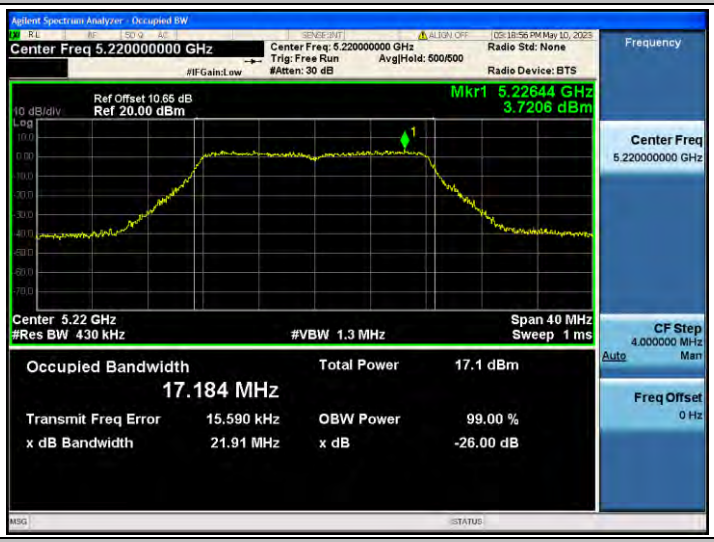
11A_Ant1_5220



11A_Ant2_5220

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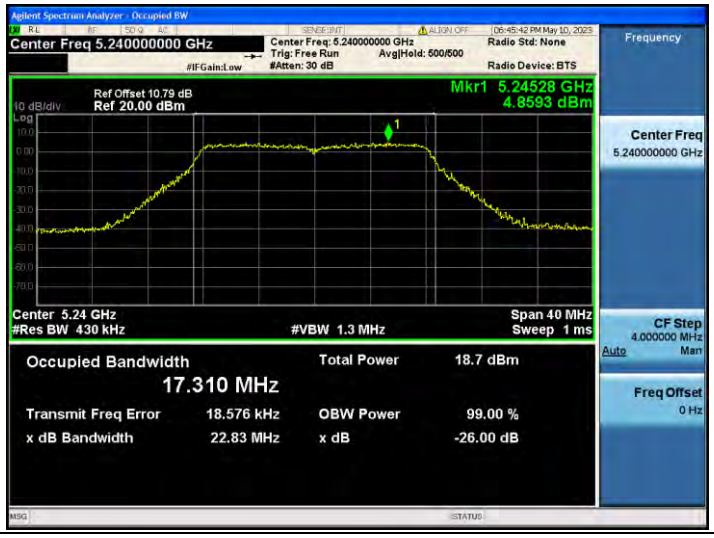
11A_Ant1_5240

11A_Ant2_5240



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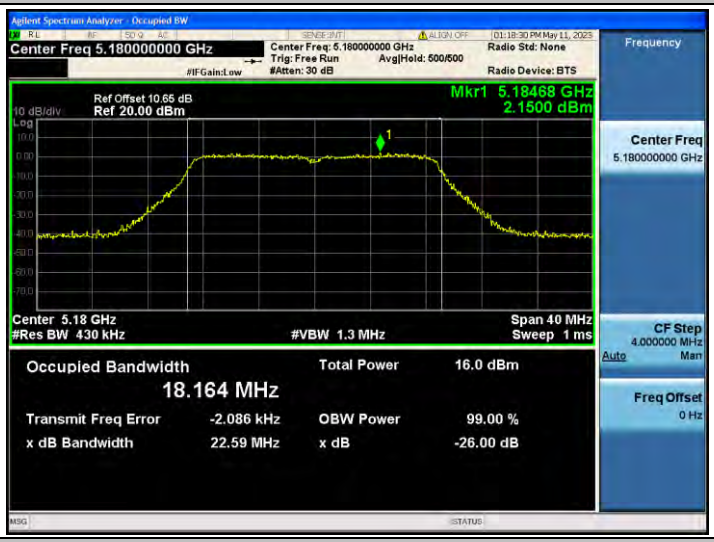
11N20MIMO_Ant1_5180



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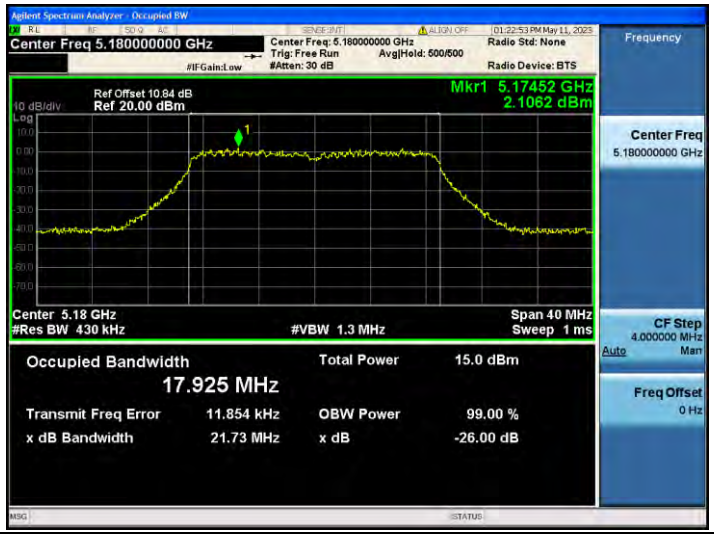

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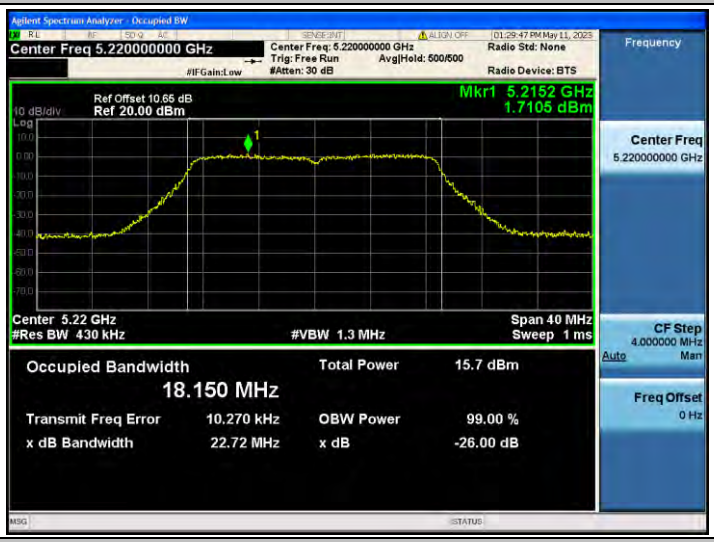

11N20MIMO_Ant2_5220

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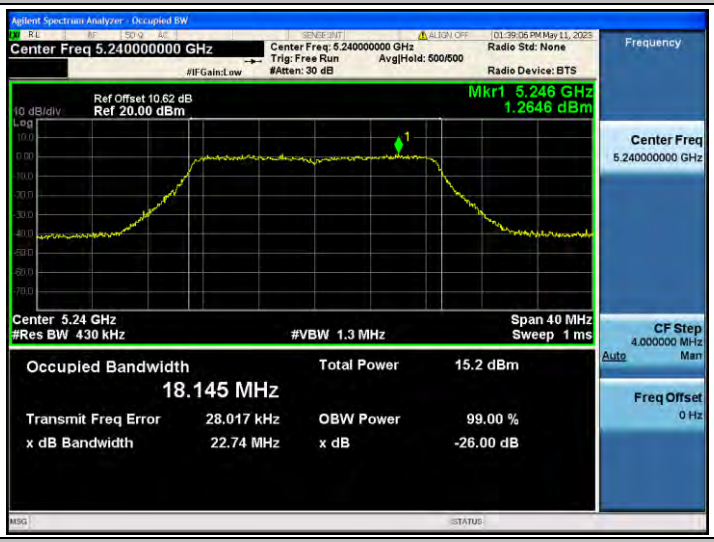

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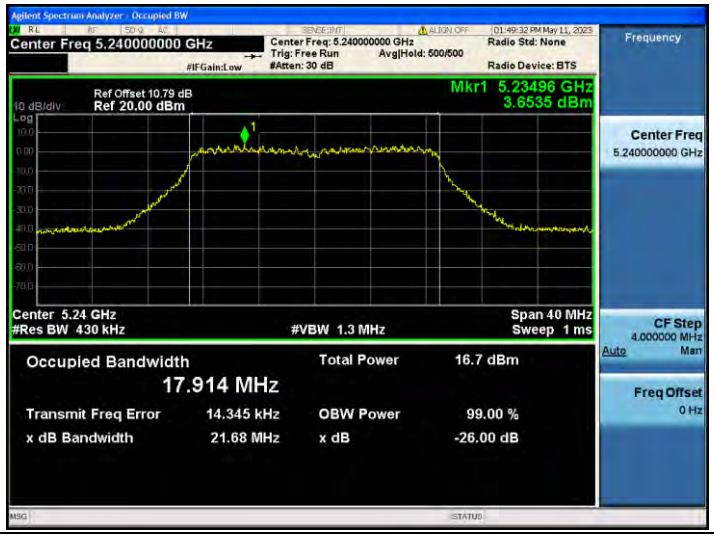

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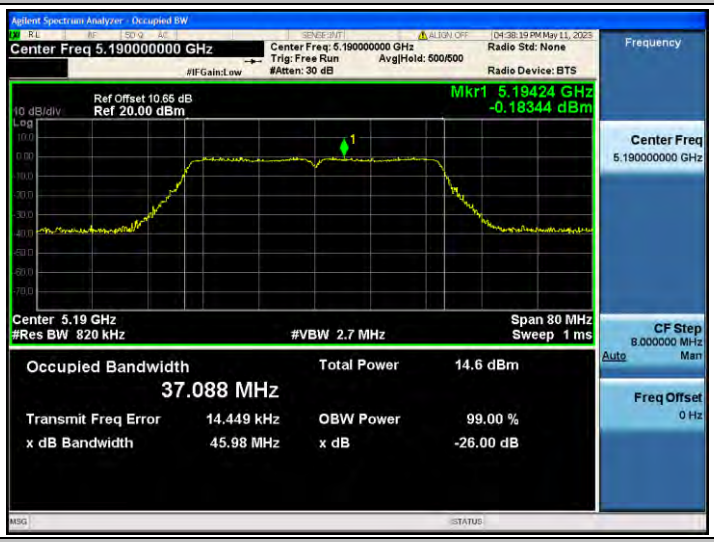
11N40MIMO_Ant1_5190



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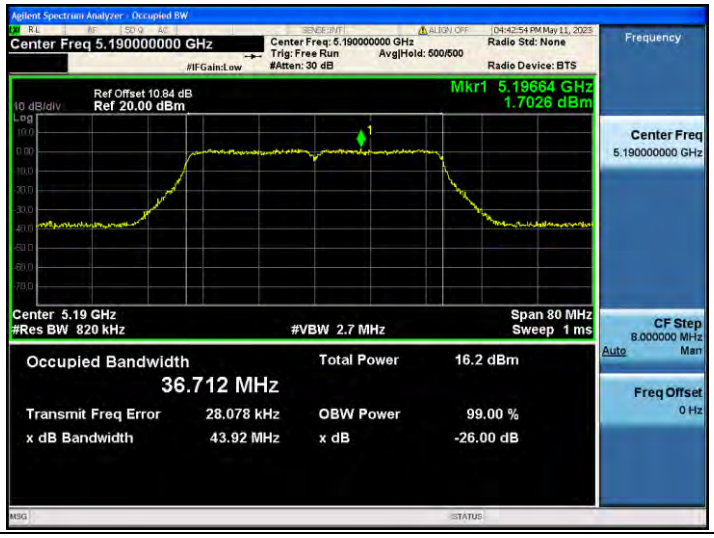

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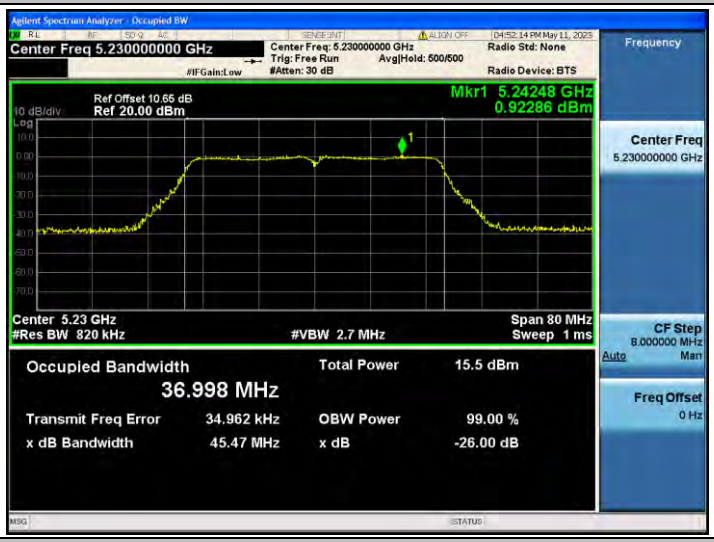
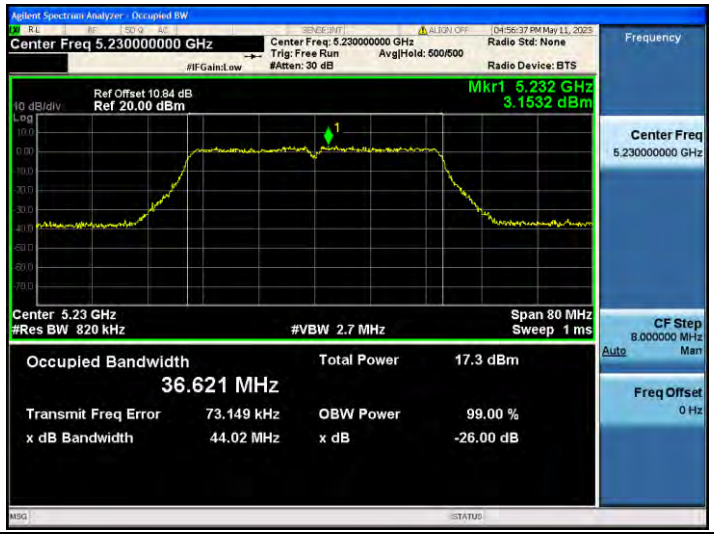


11N40MIMO_Ant2_5230



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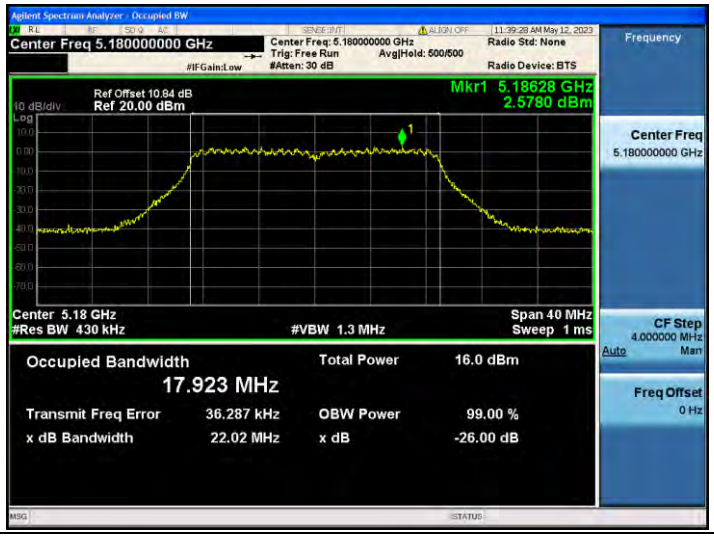
11AC20MIMO_Ant1_5180

11AC20MIMO_Ant2_5180



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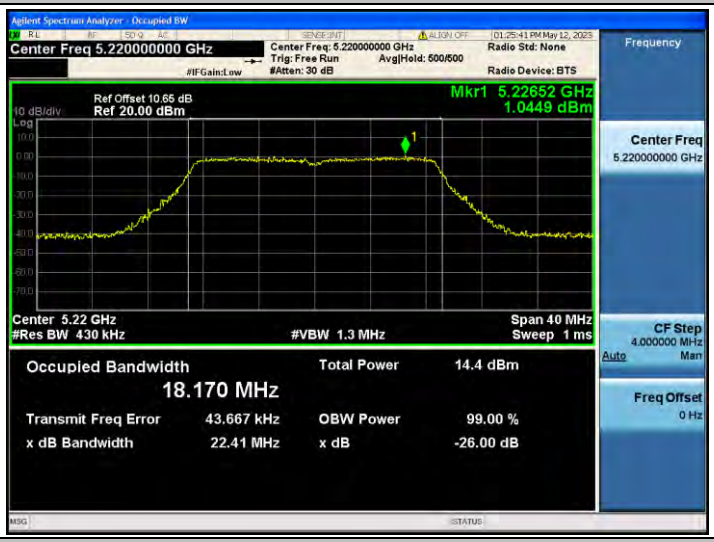
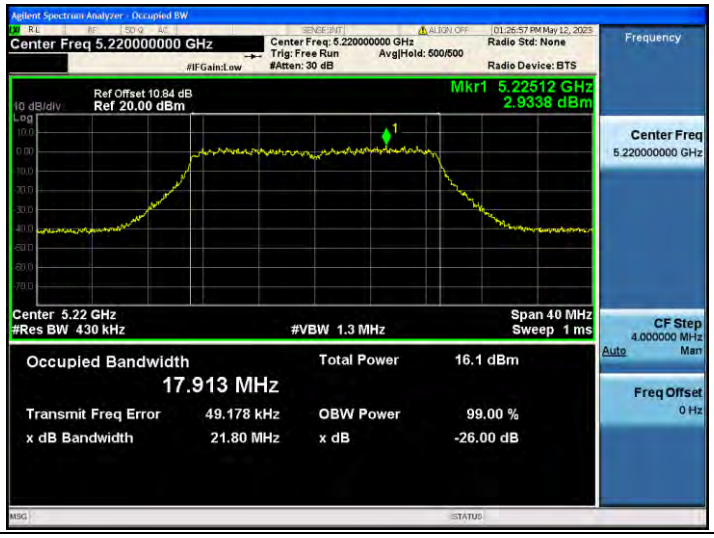
11AC20MIMO_Ant1_5220



11AC20MIMO_Ant2_5220



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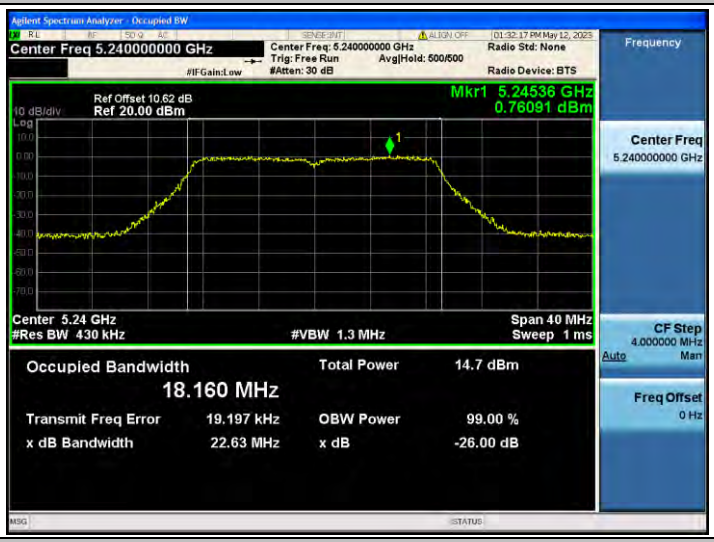
11AC20MIMO_Ant1_5240



11AC20MIMO_Ant2_5240

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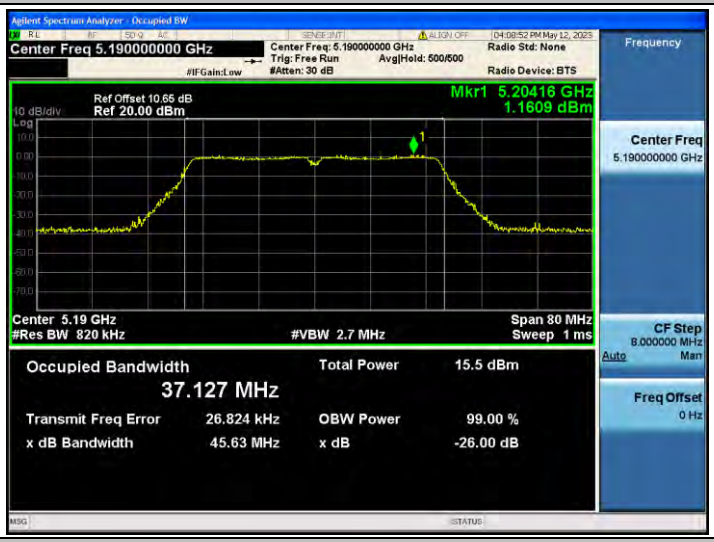
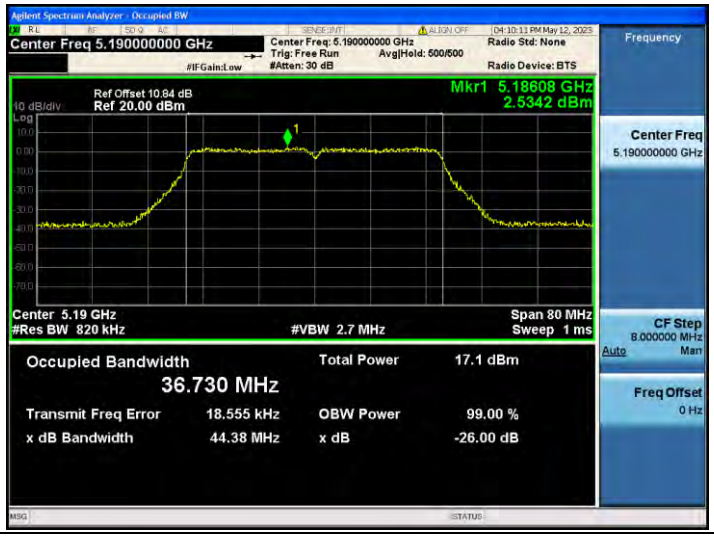
11AC40MIMO_Ant1_5190



11AC40MIMO_Ant2_5190



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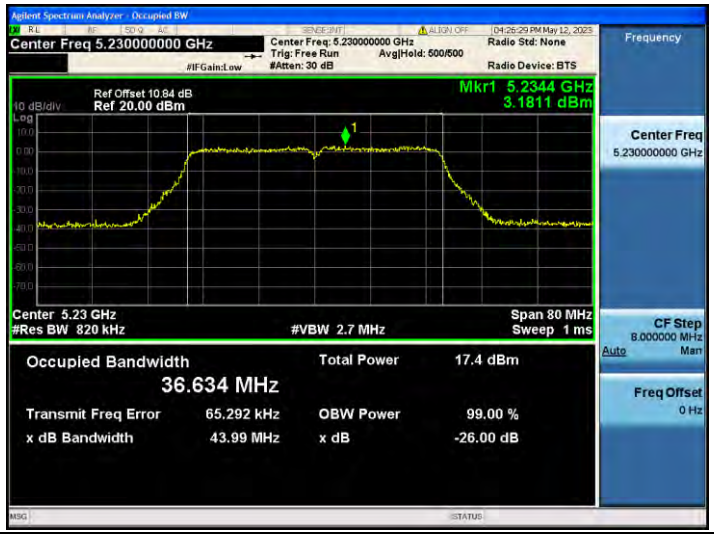
11AC40MIMO_Ant1_5230

11AC40MIMO_Ant2_5230



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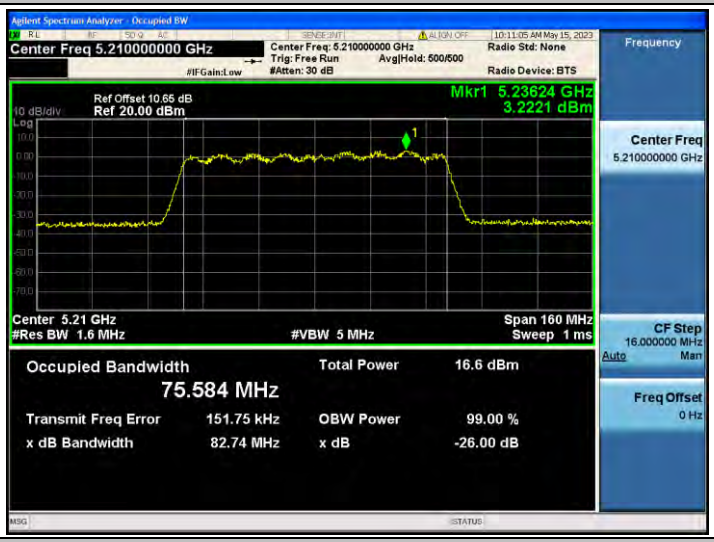
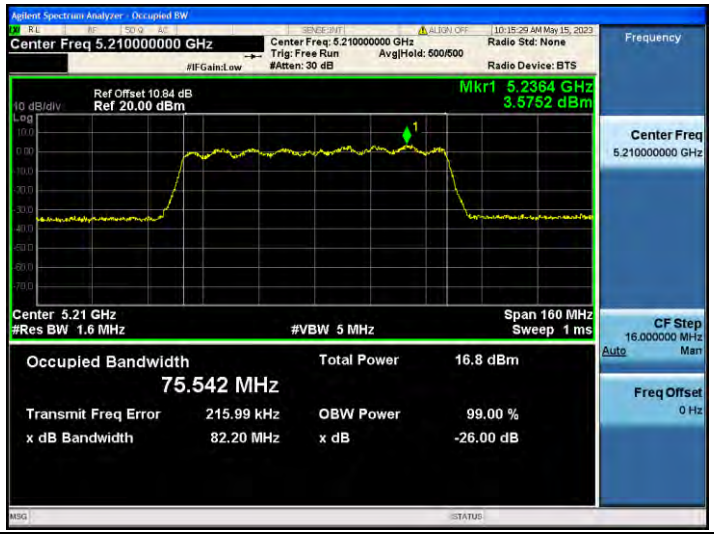
11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



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10.3 Appendix B: Maximum conducted output power

10.3.1 Test Result For FCC

Test Mode	Antenna	Channel	Level [dBm]	10Log(1/X) Factor [dB]	Power [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	9.61	0.43	10.04	≤23.98	PASS
	Ant2	5180	10.00	0.48	10.48	≤23.98	PASS
	Ant1	5220	10.00	0.54	10.54	≤23.98	PASS
	Ant2	5220	10.83	0.48	11.31	≤23.98	PASS
	Ant1	5240	10.38	0.48	10.86	≤23.98	PASS
	Ant2	5240	11.47	0.48	11.95	≤23.98	PASS
11N20MIMO	Ant1	5180	8.19	0.57	8.76	≤23.98	PASS
	Ant2	5180	8.12	0.51	8.63	≤23.98	PASS
	Total	5180	--	--	11.71	≤22.08	PASS
	Ant1	5220	8.05	0.57	8.62	≤23.98	PASS
	Ant2	5220	8.55	0.51	9.06	≤23.98	PASS
	Total	5220	--	--	11.86	≤22.08	PASS
	Ant1	5240	8.15	0.58	8.73	≤23.98	PASS
	Ant2	5240	8.46	0.57	9.03	≤23.98	PASS
	Total	5240	--	--	11.89	≤22.08	PASS
11N40MIMO	Ant1	5190	6.89	0.97	7.86	≤23.98	PASS
	Ant2	5190	7.81	1.08	8.89	≤23.98	PASS
	Total	5190	--	--	11.42	≤22.08	PASS
	Ant1	5230	7.43	1.08	8.51	≤23.98	PASS
	Ant2	5230	8.48	1.08	9.56	≤23.98	PASS
	Total	5230	--	--	12.08	≤22.08	PASS
11AC20MIMO	Ant1	5180	7.26	0.51	7.77	≤23.98	PASS
	Ant2	5180	8.01	0.57	8.58	≤23.98	PASS
	Total	5180	--	--	11.20	≤22.08	PASS
	Ant1	5220	7.09	0.51	7.60	≤23.98	PASS
	Ant2	5220	8.01	0.51	8.52	≤23.98	PASS
	Total	5220	--	--	11.09	≤22.08	PASS
	Ant1	5240	7.33	0.57	7.90	≤23.98	PASS
	Ant2	5240	8.35	0.51	8.86	≤23.98	PASS
	Total	5240	--	--	11.42	≤22.08	PASS
11AC40MIMO	Ant1	5190	7.32	1.08	8.40	≤23.98	PASS
	Ant2	5190	8.25	0.97	9.22	≤23.98	PASS
	Total	5190	--	--	11.84	≤22.08	PASS
	Ant1	5230	7.98	1.08	9.06	≤23.98	PASS
	Ant2	5230	8.55	1.08	9.63	≤23.98	PASS
	Total	5230	--	--	12.36	≤22.08	PASS
11AC80MIMO	Ant1	5210	6.37	1.76	8.13	≤23.98	PASS
	Ant2	5210	6.60	1.94	8.54	≤23.98	PASS

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	Total	5210	--	--	11.35	≤22.08	PASS

10.3.2 Test Result For IC

Test Mode	Antenna	Channel	Level [dBm]	10Log(1/X) Factor [dB]	Power [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	9.61	0.43	10.04	14.93	≤23.00	PASS
	Ant2	5180	10.00	0.48	10.48	15.37	≤23.00	PASS
	Ant1	5220	10.00	0.54	10.54	15.43	≤23.00	PASS
	Ant2	5220	10.83	0.48	11.31	16.2	≤23.00	PASS
	Ant1	5240	10.38	0.48	10.86	15.75	≤23.00	PASS
	Ant2	5240	11.47	0.48	11.95	16.84	≤23.00	PASS
11N20MIMO	Ant1	5180	8.19	0.57	8.76	13.65	≤23.00	PASS
	Ant2	5180	8.12	0.51	8.63	13.52	≤23.00	PASS
	Total	5180	--	--	11.71	17.71	≤21.10	PASS
	Ant1	5220	8.05	0.57	8.62	13.51	≤23.00	PASS
	Ant2	5220	8.55	0.51	9.06	13.95	≤23.00	PASS
	Total	5220	--	--	11.86	17.86	≤21.10	PASS
	Ant1	5240	8.15	0.58	8.73	13.62	≤23.00	PASS
	Ant2	5240	8.46	0.57	9.03	13.92	≤23.00	PASS
	Total	5240	--	--	11.89	17.89	≤21.10	PASS
11N40MIMO	Ant1	5190	6.89	0.97	7.86	12.75	≤23.00	PASS
	Ant2	5190	7.81	1.08	8.89	13.78	≤23.00	PASS
	Total	5190	--	--	11.42	17.42	≤21.10	PASS
	Ant1	5230	7.43	1.08	8.51	13.4	≤23.00	PASS
	Ant2	5230	8.48	1.08	9.56	14.45	≤23.00	PASS
	Total	5230	--	--	12.08	18.08	≤21.10	PASS
11AC20MIMO	Ant1	5180	7.26	0.51	7.77	12.66	≤23.00	PASS
	Ant2	5180	8.01	0.57	8.58	13.47	≤23.00	PASS
	Total	5180	--	--	11.20	17.2	≤21.10	PASS
	Ant1	5220	7.09	0.51	7.60	12.49	≤23.00	PASS
	Ant2	5220	8.01	0.51	8.52	13.41	≤23.00	PASS
	Total	5220	--	--	11.09	17.09	≤21.10	PASS
	Ant1	5240	7.33	0.57	7.90	12.79	≤23.00	PASS
	Ant2	5240	8.35	0.51	8.86	13.75	≤23.00	PASS
	Total	5240	--	--	11.42	17.42	≤21.10	PASS
11AC40MIMO	Ant1	5190	7.32	1.08	8.40	13.29	≤23.00	PASS
	Ant2	5190	8.25	0.97	9.22	14.11	≤23.00	PASS
	Total	5190	--	--	11.84	17.84	≤21.10	PASS
	Ant1	5230	7.98	1.08	9.06	13.95	≤23.00	PASS
	Ant2	5230	8.55	1.08	9.63	14.52	≤23.00	PASS
	Total	5230	--	--	12.36	18.36	≤21.10	PASS
11AC80MIMO	Ant1	5210	6.37	1.76	8.13	13.02	≤23.00	PASS

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	Ant2	5210	6.60	1.94	8.54	13.43	≤23.00	PASS
	Total	5210	--	--	11.35	17.35	≤21.10	PASS

Note：EIRP=Power[dBm] + Antenna Gain

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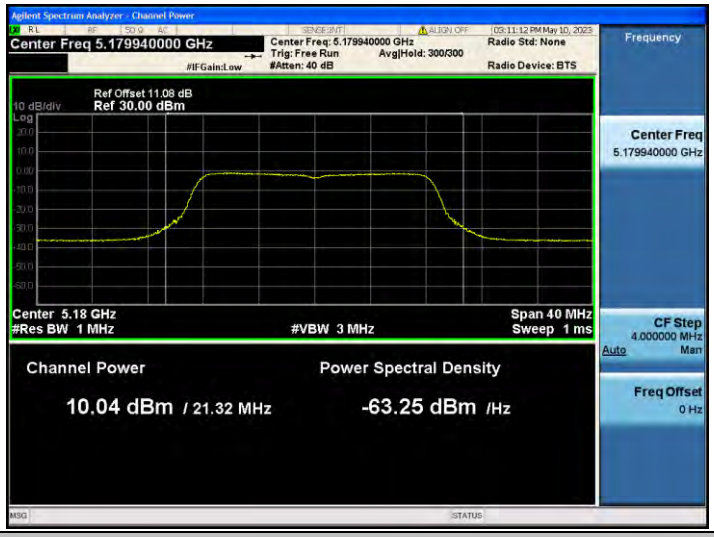
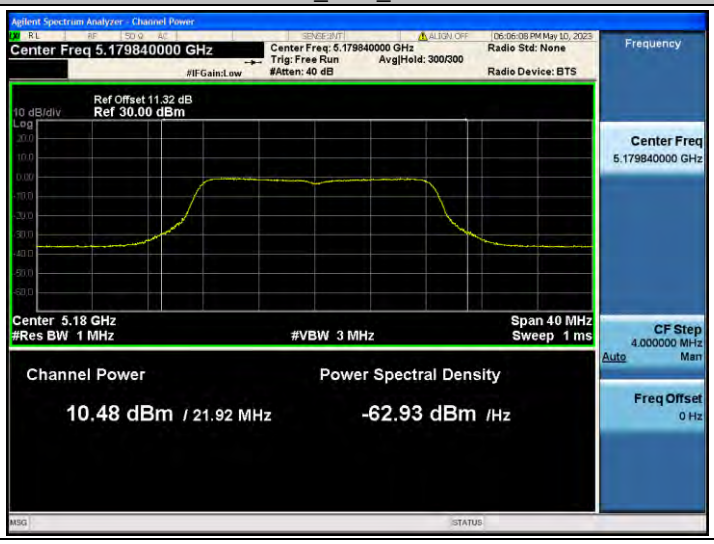
10.3.3 Test Graphs

11A_Ant1_5180



11A_Ant2_5180



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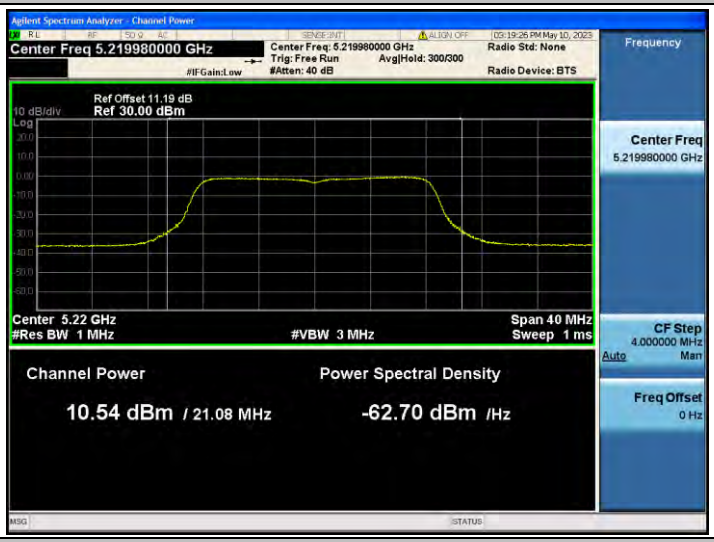
11A_Ant1_5220



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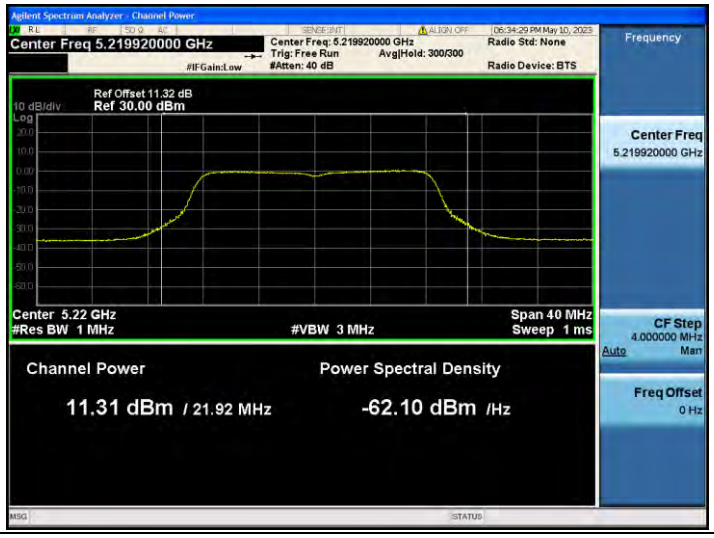

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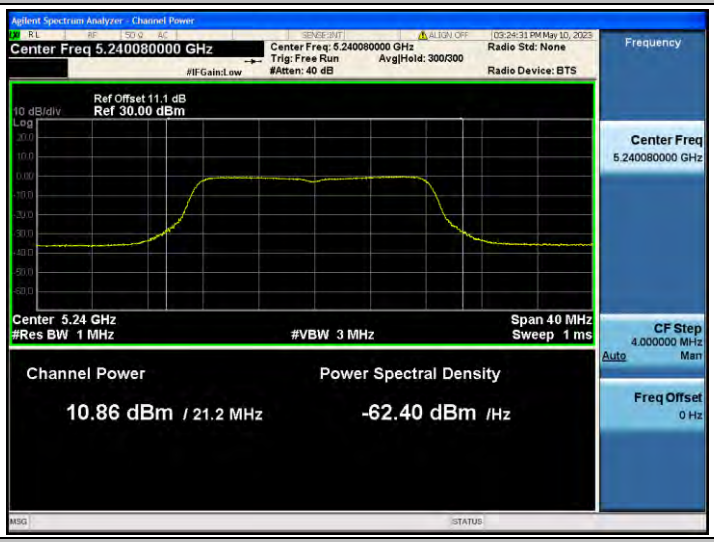

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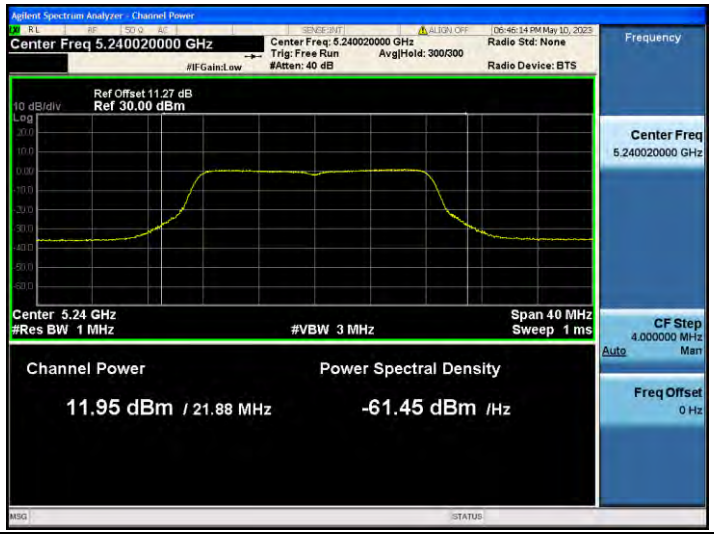

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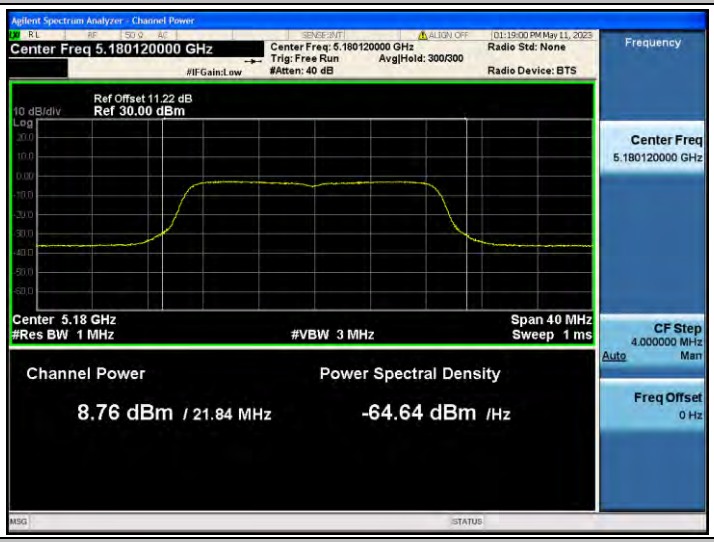

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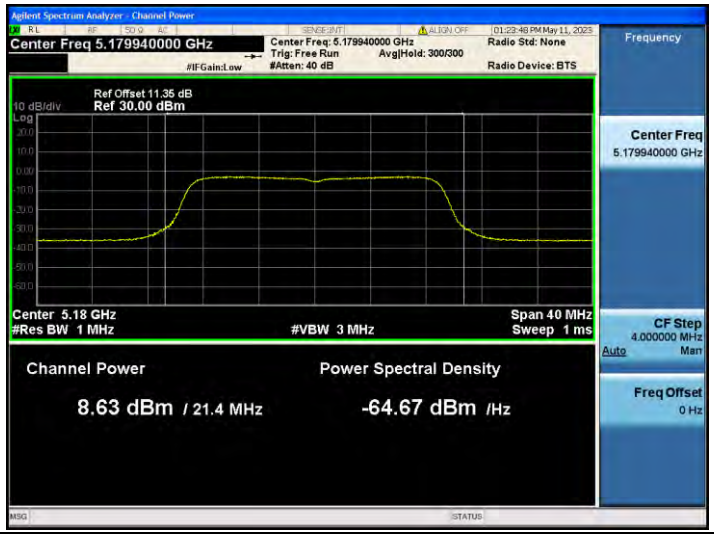

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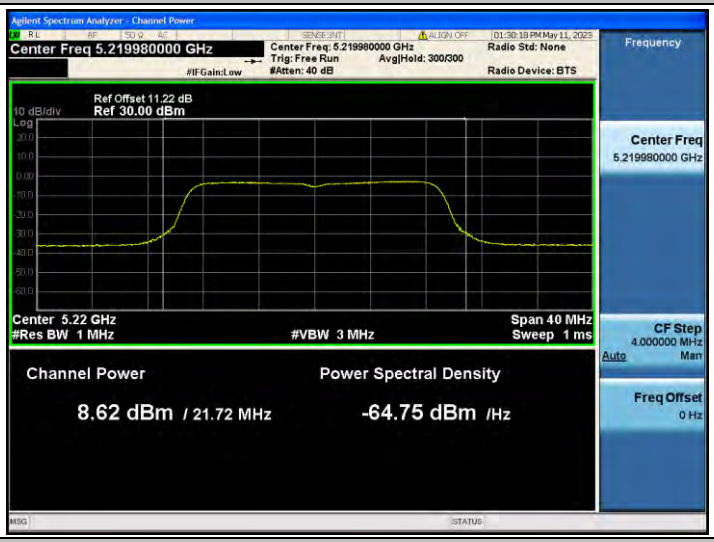

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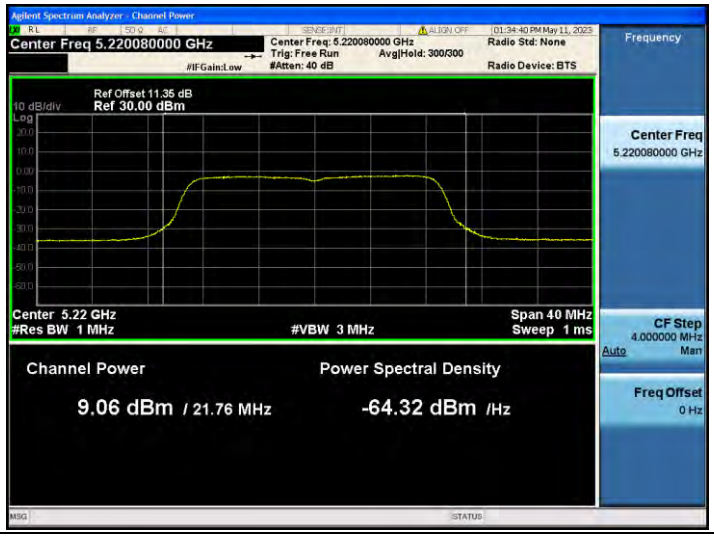

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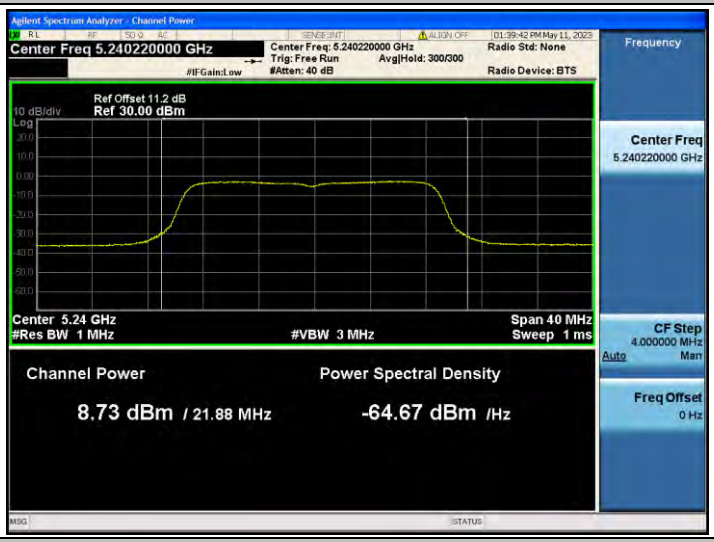
11N20MIMO_Ant1_5240



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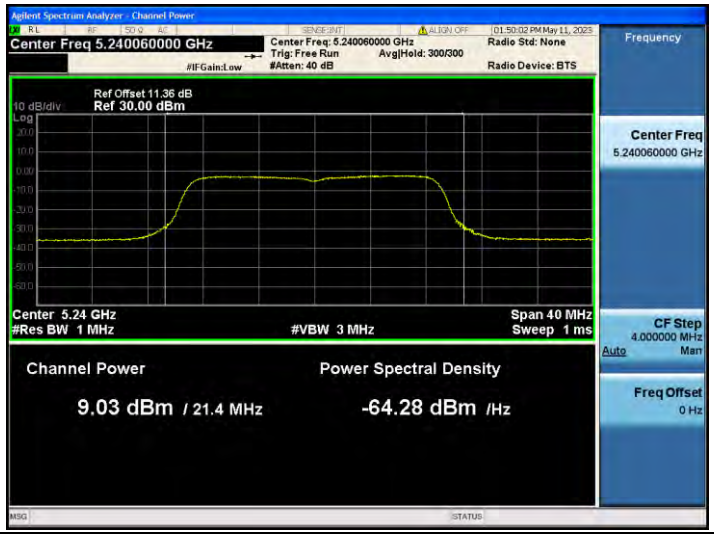

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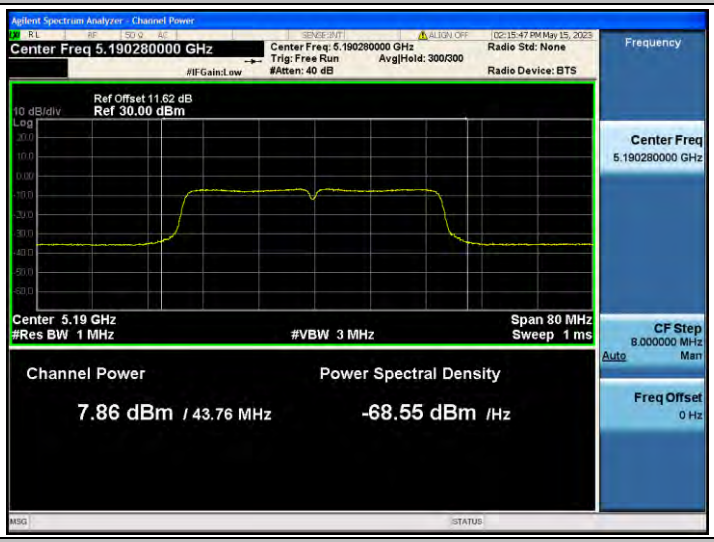

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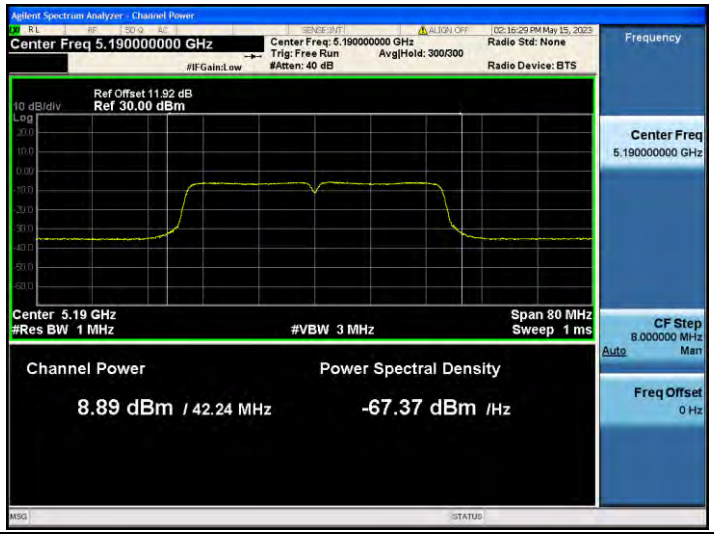

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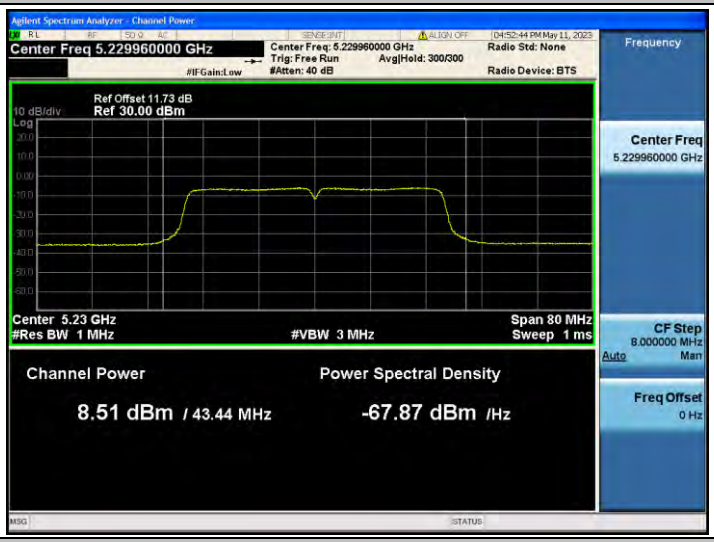

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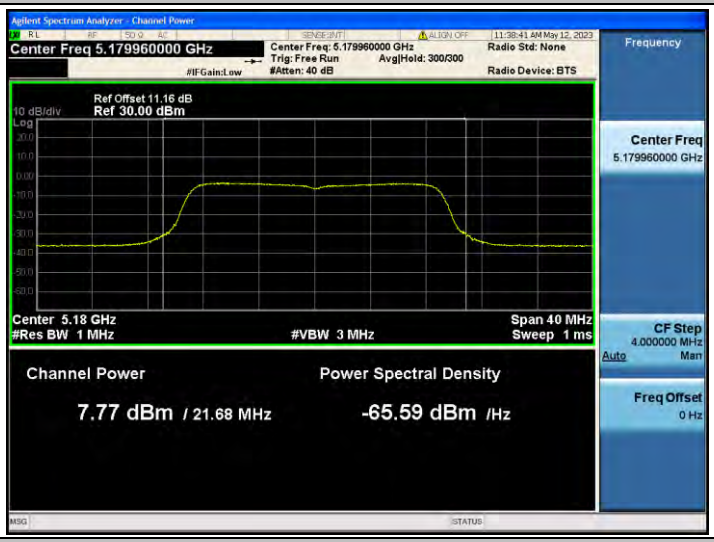

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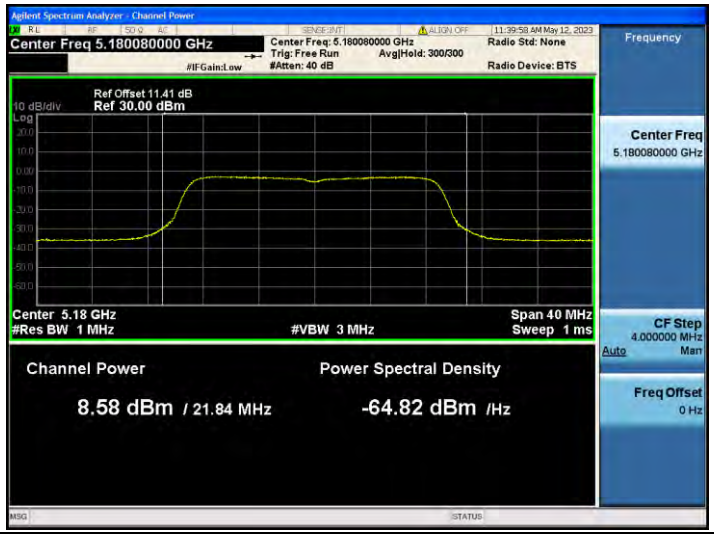

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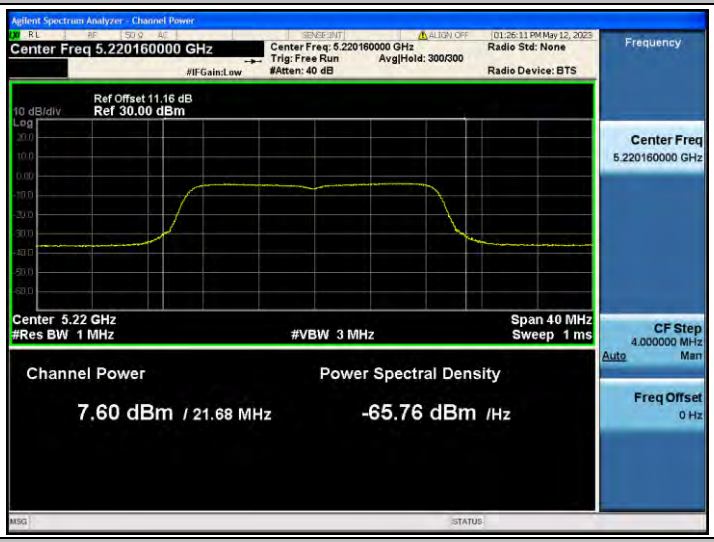

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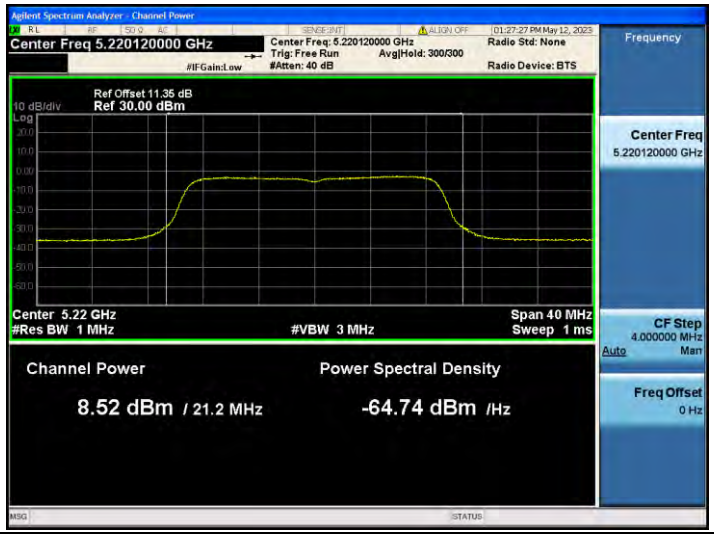

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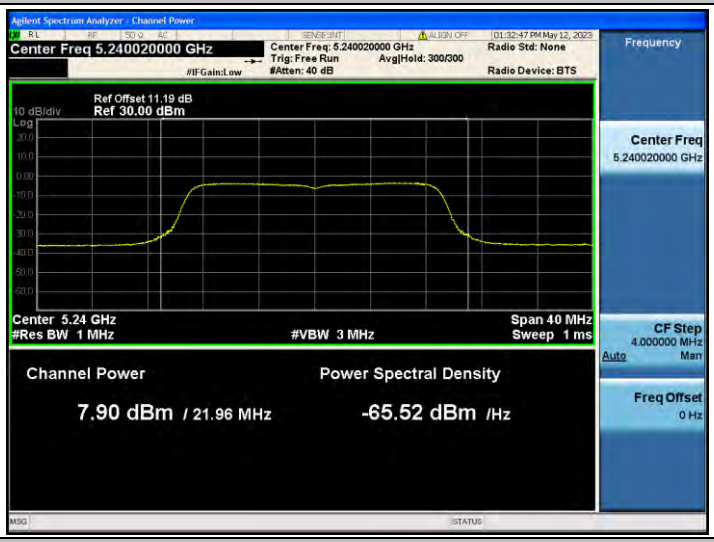

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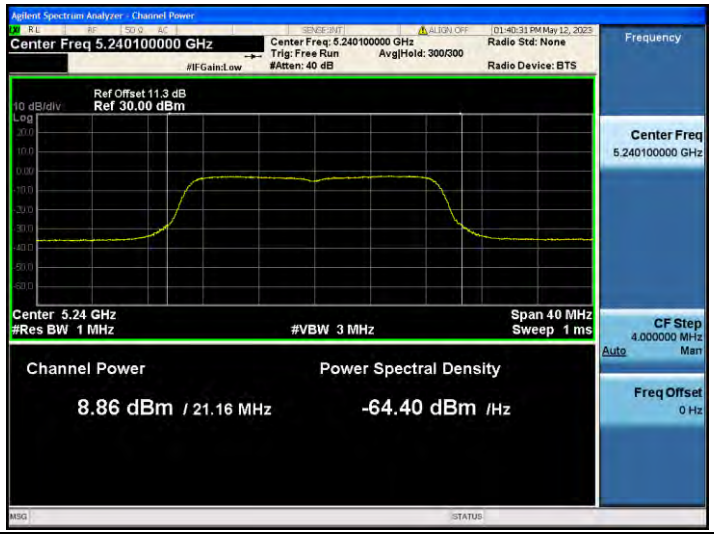

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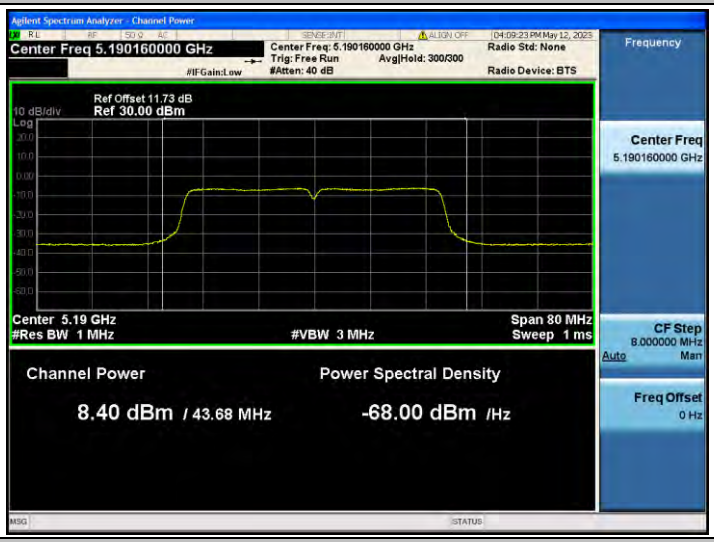

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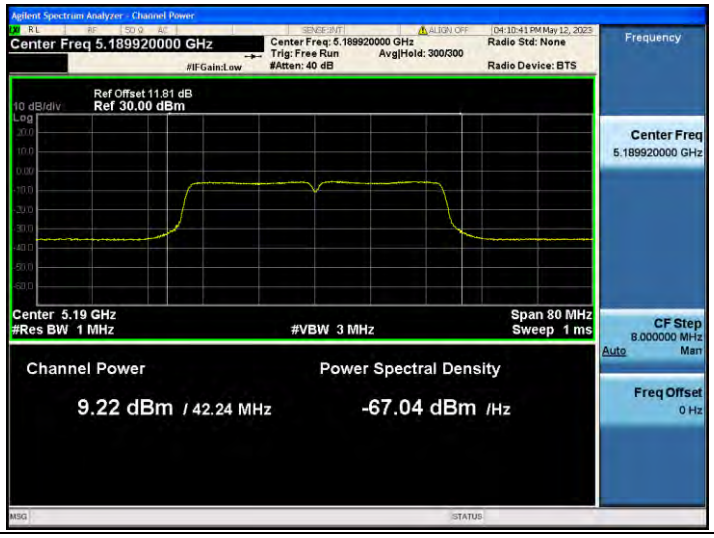

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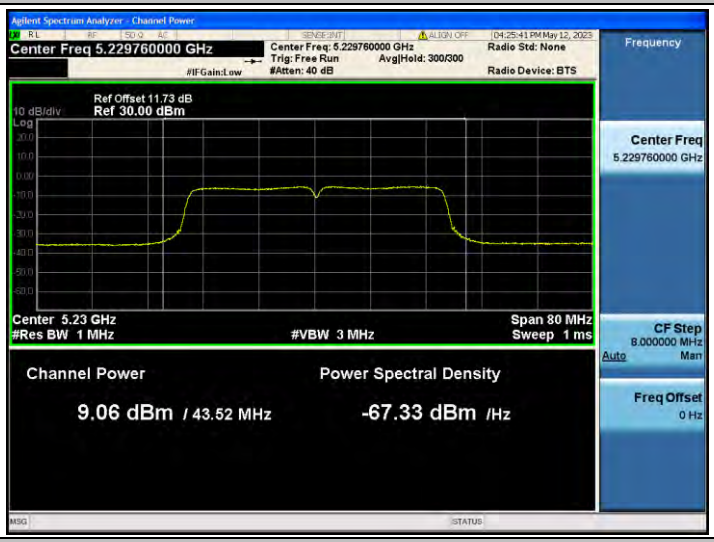
11AC40MIMO_Ant1_5230



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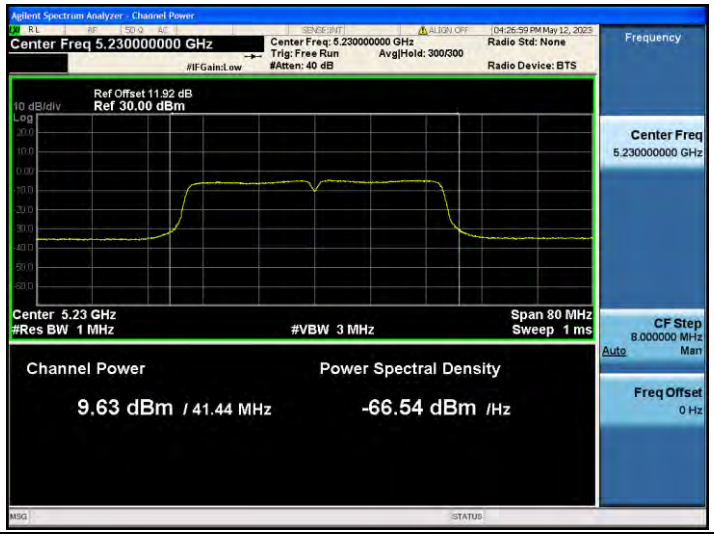

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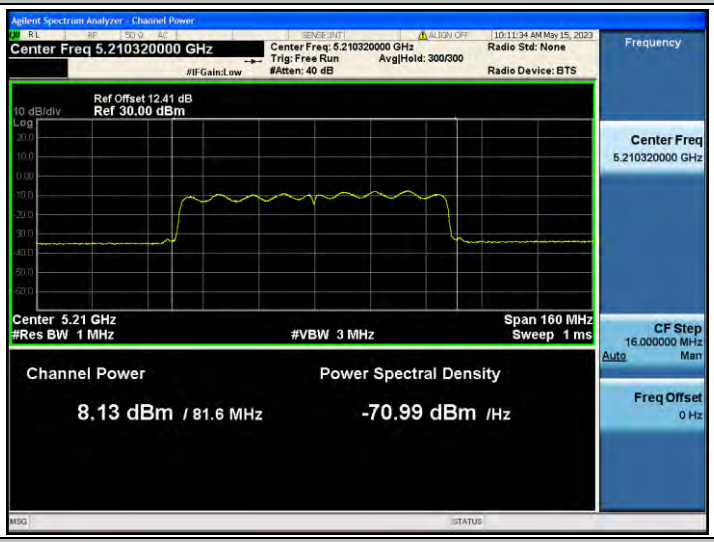

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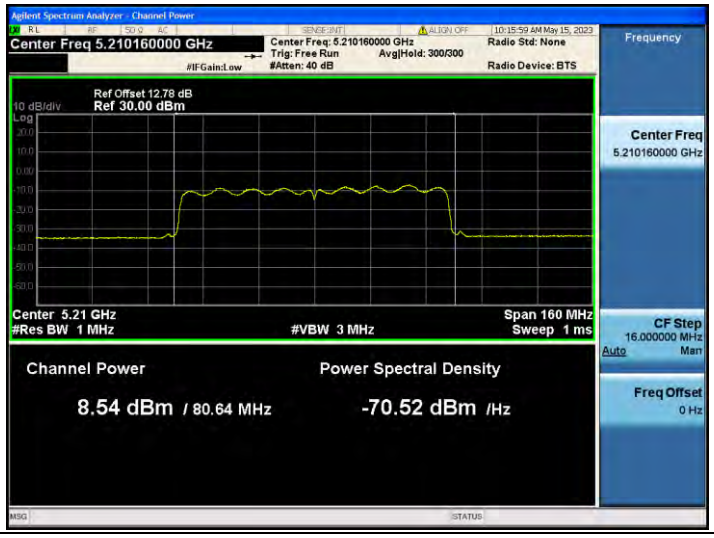

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10.4 Appendix C: Maximum power spectral density

10.4.1 Test Result For FCC

Test Mode	Antenna	Channel	Level [dBm/MHz]	10Log(1/X) Factor [dB]	PSD [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	-1.24	0.43	-0.81	≤11.00	PASS
	Ant2	5180	-0.97	0.48	-0.49	≤11.00	PASS
	Ant1	5220	-0.61	0.54	-0.07	≤11.00	PASS
	Ant2	5220	0.04	0.48	0.52	≤11.00	PASS
	Ant1	5240	-0.22	0.48	0.26	≤11.00	PASS
	Ant2	5240	0.94	0.48	1.42	≤11.00	PASS
11N20MIMO	Ant1	5180	-3.07	0.57	-2.5	≤11.00	PASS
	Ant2	5180	-3.13	0.51	-2.62	≤11.00	PASS
	total	5180	---	---	0.45	≤9.10	PASS
	Ant1	5220	-2.94	0.57	-2.37	≤11.00	PASS
	Ant2	5220	-2.49	0.51	-1.98	≤11.00	PASS
	total	5220	---	---	0.84	≤9.10	PASS
	Ant1	5240	-2.95	0.58	-2.37	≤11.00	PASS
	Ant2	5240	-2.57	0.57	-2	≤11.00	PASS
	total	5240	---	---	0.83	≤9.10	PASS
11N40MIMO	Ant1	5190	-7.44	0.97	-6.47	≤11.00	PASS
	Ant2	5190	-6.53	1.08	-5.45	≤11.00	PASS
	total	5190	---	---	-2.92	≤9.10	PASS
	Ant1	5230	-6.80	1.08	-5.72	≤11.00	PASS
	Ant2	5230	-5.77	1.08	-4.69	≤11.00	PASS
	total	5230	---	---	-2.16	≤9.10	PASS
11AC20MIMO	Ant1	5180	-3.74	0.51	-3.23	≤11.00	PASS
	Ant2	5180	-3.04	0.57	-2.47	≤11.00	PASS
	total	5180	---	---	0.18	≤9.10	PASS
	Ant1	5220	-3.98	0.51	-3.47	≤11.00	PASS
	Ant2	5220	-2.89	0.51	-2.38	≤11.00	PASS
	total	5220	---	---	0.12	≤9.10	PASS
	Ant1	5240	-3.91	0.57	-3.34	≤11.00	PASS
	Ant2	5240	-2.66	0.51	-2.15	≤11.00	PASS
	total	5240	---	---	0.31	≤9.10	PASS
11AC40MIMO	Ant1	5190	-6.82	1.08	-5.74	≤11.00	PASS
	Ant2	5190	-5.80	0.97	-4.83	≤11.00	PASS
	total	5190	---	---	-2.25	≤9.10	PASS
	Ant1	5230	-6.24	1.08	-5.16	≤11.00	PASS
	Ant2	5230	-5.44	1.08	-4.36	≤11.00	PASS
	total	5230	---	---	-1.73	≤9.10	PASS
11AC80MIMO	Ant1	5210	-9.34	1.76	-7.58	≤11.00	PASS
	Ant2	5210	-9.08	1.94	-7.14	≤11.00	PASS

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	total	5210	---	---	-4.34	≤9.10	PASS

Note: 1.The Duty Cycle Factor and RBW Factor is compensated in the graph.

10.4.2 Test Result For IC

Test Mode	Antenna	Channel	Level [dBm/MHz]	10Log(1/X) Factor [dB]	PSD [dBm/MHz]	EIRPSD [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	-1.24	0.43	-0.81	4.08	≤10.00	PASS
	Ant2	5180	-0.97	0.48	-0.49	4.4	≤10.00	PASS
	Ant1	5220	-0.61	0.54	-0.07	4.82	≤10.00	PASS
	Ant2	5220	0.04	0.48	0.52	5.41	≤10.00	PASS
	Ant1	5240	-0.22	0.48	0.26	5.15	≤10.00	PASS
	Ant2	5240	0.94	0.48	1.42	6.31	≤10.00	PASS
11N20MIMO	Ant1	5180	-3.07	0.57	-2.5	2.39	≤10.00	PASS
	Ant2	5180	-3.13	0.51	-2.62	2.27	≤10.00	PASS
	total	5180	---	---	0.45	6.45	≤8.10	PASS
	Ant1	5220	-2.94	0.57	-2.37	2.52	≤10.00	PASS
	Ant2	5220	-2.49	0.51	-1.98	2.91	≤10.00	PASS
	total	5220	---	---	0.84	6.84	≤8.10	PASS
	Ant1	5240	-2.95	0.58	-2.37	2.52	≤10.00	PASS
	Ant2	5240	-2.57	0.57	-2	2.89	≤10.00	PASS
	total	5240	---	---	0.83	6.83	≤8.10	PASS
11N40MIMO	Ant1	5190	-7.44	0.97	-6.47	-1.58	≤10.00	PASS
	Ant2	5190	-6.53	1.08	-5.45	-0.56	≤10.00	PASS
	total	5190	---	---	-2.92	3.08	≤8.10	PASS
	Ant1	5230	-6.80	1.08	-5.72	-0.83	≤10.00	PASS
	Ant2	5230	-5.77	1.08	-4.69	0.20	≤10.00	PASS
	total	5230	---	---	-2.16	3.84	≤8.10	PASS
11AC20MIMO	Ant1	5180	-3.74	0.51	-3.23	1.66	≤10.00	PASS
	Ant2	5180	-3.04	0.57	-2.47	2.42	≤10.00	PASS
	total	5180	---	---	0.18	6.18	≤8.10	PASS
	Ant1	5220	-3.98	0.51	-3.47	1.42	≤10.00	PASS
	Ant2	5220	-2.89	0.51	-2.38	2.51	≤10.00	PASS
	total	5220	---	---	0.12	6.12	≤8.10	PASS
	Ant1	5240	-3.91	0.57	-3.34	1.55	≤10.00	PASS
	Ant2	5240	-2.66	0.51	-2.15	2.74	≤10.00	PASS
	total	5240	---	---	0.31	6.31	≤8.10	PASS
11AC40MIMO	Ant1	5190	-6.82	1.08	-5.74	-0.85	≤10.00	PASS
	Ant2	5190	-5.80	0.97	-4.83	0.06	≤10.00	PASS
	total	5190	---	---	-2.25	3.75	≤8.10	PASS
	Ant1	5230	-6.24	1.08	-5.16	-0.27	≤10.00	PASS
	Ant2	5230	-5.44	1.08	-4.36	0.53	≤10.00	PASS
	total	5230	---	---	-1.73	4.27	≤8.10	PASS
11AC80MIMO	Ant1	5210	-9.34	1.76	-7.58	-2.69	≤10.00	PASS

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	Ant2	5210	-9.08	1.94	-7.14	-2.25	≤10.00	PASS
	total	5210	---	---	-4.34	1.66	≤8.10	PASS

Note： 1.The Duty Cycle Factor and RBW Factor is compensated in the graph.

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10.4.3 Test Graphs

11A_Ant1_5180

11A_Ant2_5180

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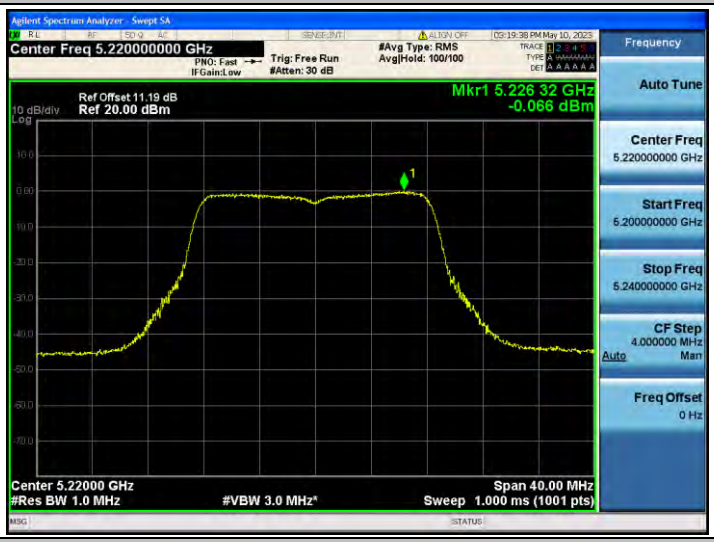

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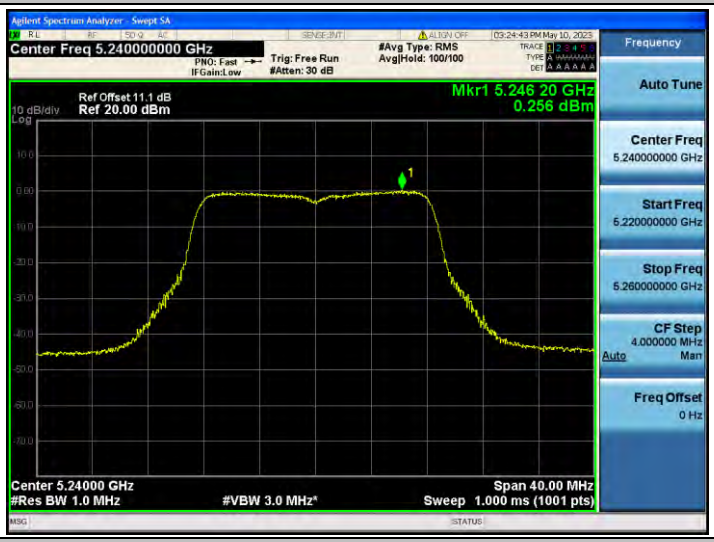

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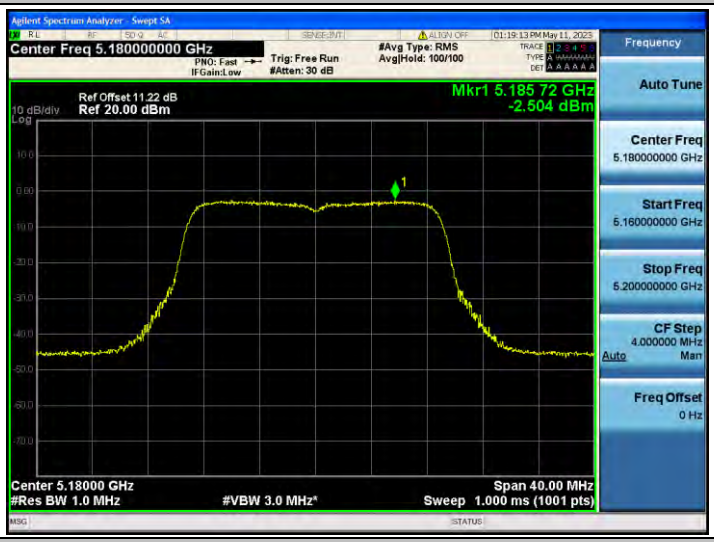

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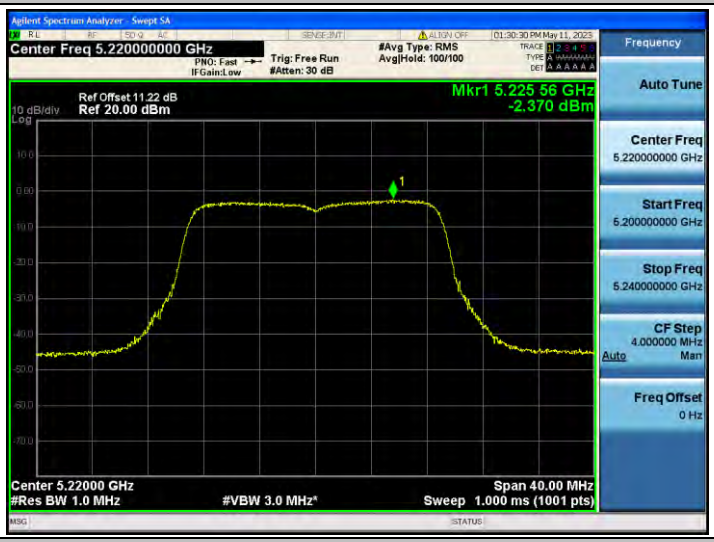

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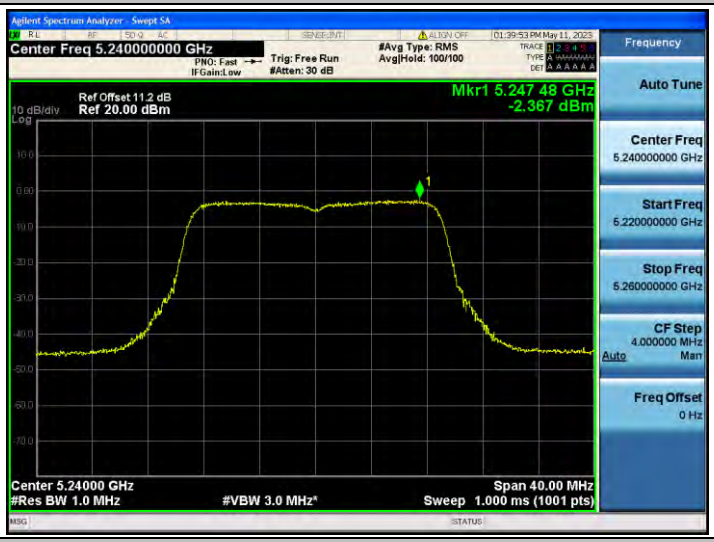
11N20MIMO_Ant1_5240



11N20MIMO_Ant2_5240

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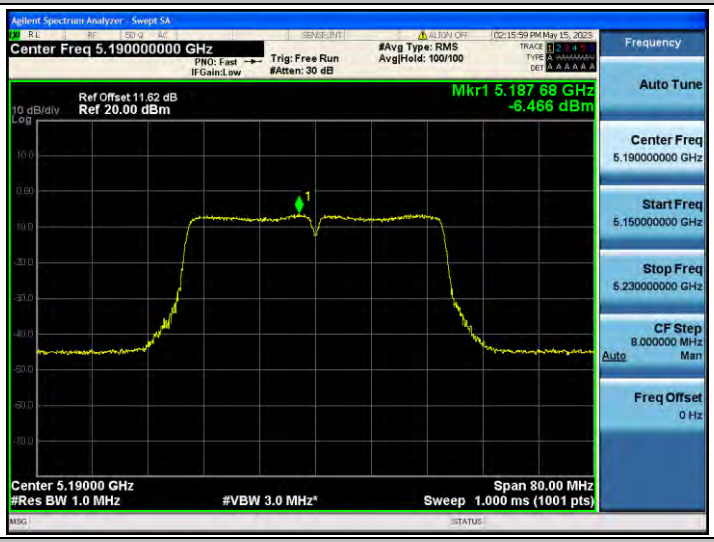
11N40MIMO_Ant1_5190



11N40MIMO_Ant2_5190

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11N40MIMO_Ant1_5230

11N40MIMO_Ant2_5230

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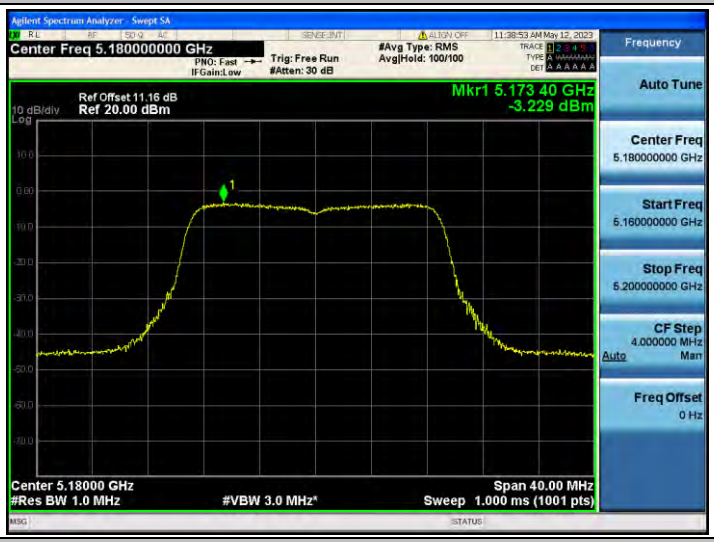
11AC20MIMO_Ant1_5180



11AC20MIMO_Ant2_5180

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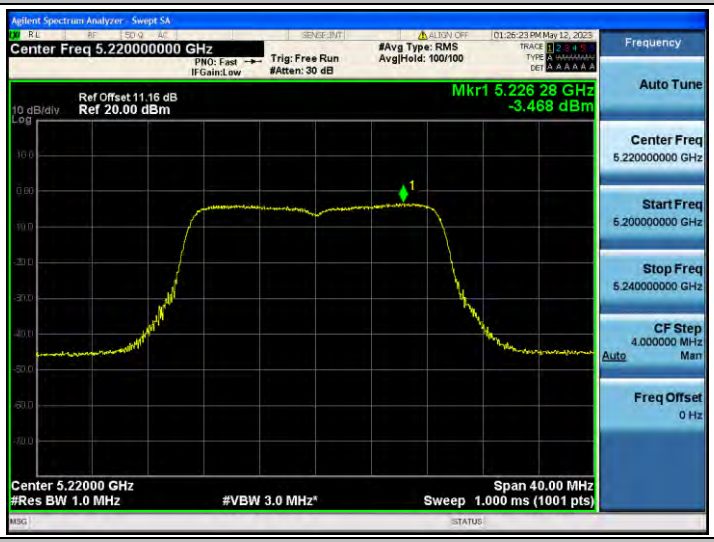
11AC20MIMO_Ant1_5220



11AC20MIMO_Ant2_5220

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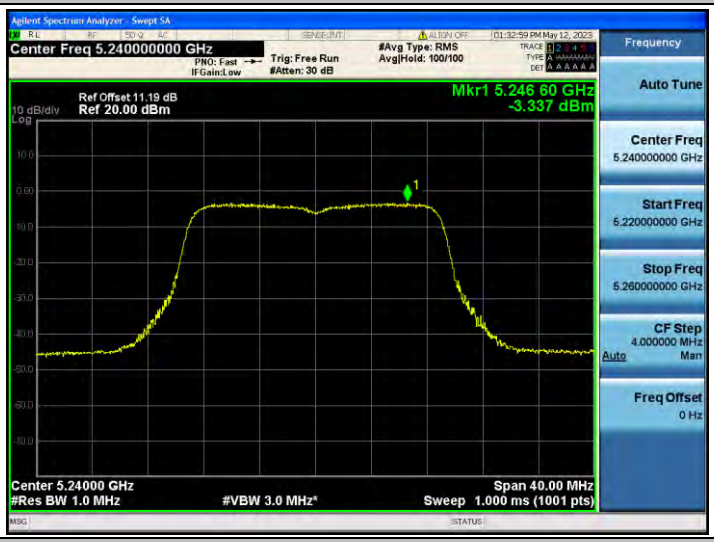
11AC20MIMO_Ant1_5240



11AC20MIMO_Ant2_5240

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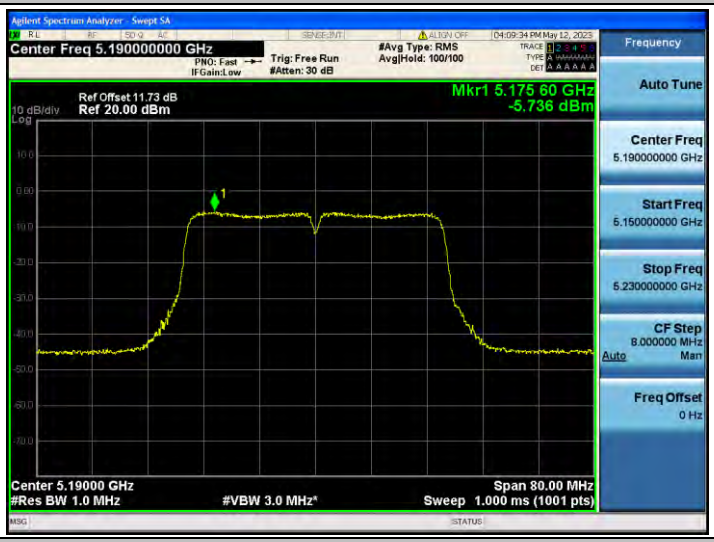
11AC40MIMO_Ant1_5190



11AC40MIMO_Ant2_5190

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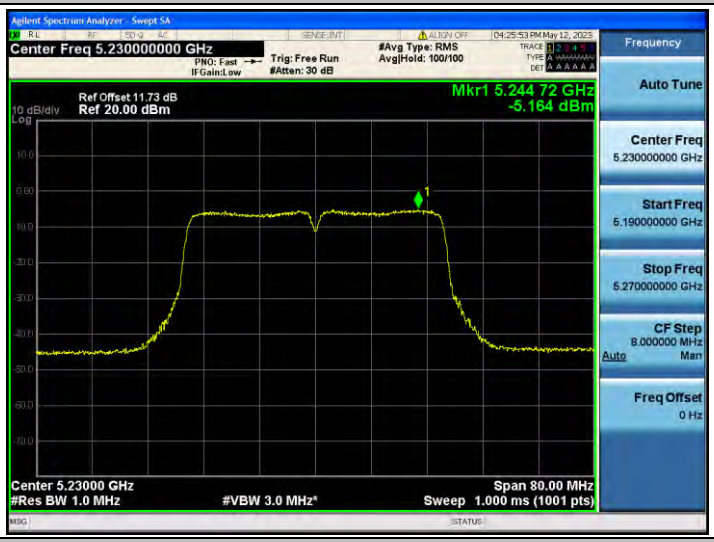
11AC40MIMO_Ant1_5230



11AC40MIMO_Ant2_5230

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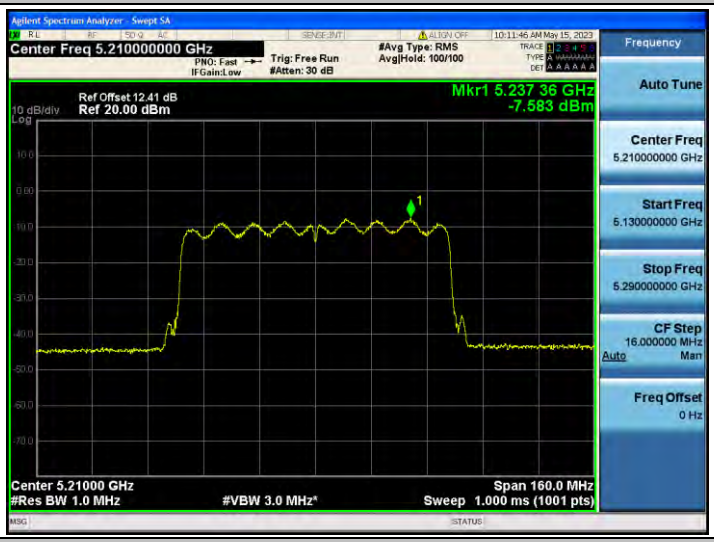
11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210

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10.5 Appendix D: Frequency Stability

10.5.1 Test Result

Voltage							
Test Mode	Antenna	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-7.722008	±20	PASS
			LV	NT	-3.861004	±20	PASS
			HV	NT	-7.722008	±20	PASS
	Ant2	5180	NV	NT	-3.861004	±20	PASS
			LV	NT	-3.861004	±20	PASS
			HV	NT	-3.861004	±20	PASS
	Ant1	5220	NV	NT	-3.831418	±20	PASS
			LV	NT	-3.831418	±20	PASS
			HV	NT	-3.831418	±20	PASS
	Ant2	5220	NV	NT	-3.831418	±20	PASS
			LV	NT	0.000000	±20	PASS
			HV	NT	-7.662835	±20	PASS
	Ant1	5240	NV	NT	-7.633588	±20	PASS
			LV	NT	-7.633588	±20	PASS
			HV	NT	-7.633588	±20	PASS
	Ant2	5240	NV	NT	-7.633588	±20	PASS
			LV	NT	-3.816794	±20	PASS
			HV	NT	-3.816794	±20	PASS
11N20MIMO	Ant1	5180	NV	NT	0.000000	±20	PASS
			LV	NT	-7.722008	±20	PASS
			HV	NT	-3.861004	±20	PASS
	Ant2	5180	NV	NT	0.000000	±20	PASS
			LV	NT	0.000000	±20	PASS
			HV	NT	0.000000	±20	PASS
	Ant1	5220	NV	NT	-3.831418	±20	PASS
			LV	NT	0.000000	±20	PASS
			HV	NT	0.000000	±20	PASS
	Ant2	5220	NV	NT	0.000000	±20	PASS
			LV	NT	3.831418	±20	PASS
			HV	NT	0.000000	±20	PASS
	Ant1	5240	NV	NT	0.000000	±20	PASS
			LV	NT	0.000000	±20	PASS
			HV	NT	-3.816794	±20	PASS
	Ant2	5240	NV	NT	0.000000	±20	PASS
			LV	NT	0.000000	±20	PASS
			HV	NT	0.000000	±20	PASS
11N40MIMO	Ant1	5190	NV	NT	0.000000	±20	PASS

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			LV	NT	0.000000	±20	PASS
			HV	NT	0.000000	±20	PASS
	Ant2	5190	NV	NT	0.000000	±20	PASS
			LV	NT	0.000000	±20	PASS
			HV	NT	0.000000	±20	PASS
	Ant1	5230	NV	NT	0.000000	±20	PASS
			LV	NT	0.000000	±20	PASS
			HV	NT	0.000000	±20	PASS
	Ant2	5230	NV	NT	0.000000	±20	PASS
			LV	NT	0.000000	±20	PASS
			HV	NT	-7.648184	±20	PASS
11AC20MIMO	Ant1	5180	NV	NT	0.000000	±20	PASS
			LV	NT	3.861004	±20	PASS
			HV	NT	-3.861004	±20	PASS
	Ant2	5180	NV	NT	0.000000	±20	PASS
			LV	NT	0.000000	±20	PASS
			HV	NT	3.861004	±20	PASS
	Ant1	5220	NV	NT	0.000000	±20	PASS
			LV	NT	-3.831418	±20	PASS
			HV	NT	0.000000	±20	PASS
	Ant2	5220	NV	NT	0.000000	±20	PASS
			LV	NT	0.000000	±20	PASS
			HV	NT	0.000000	±20	PASS
	Ant1	5240	NV	NT	0.000000	±20	PASS
			LV	NT	0.000000	±20	PASS
			HV	NT	0.000000	±20	PASS
	Ant2	5240	NV	NT	0.000000	±20	PASS
			LV	NT	3.816794	±20	PASS
			HV	NT	0.000000	±20	PASS
11AC40MIMO	Ant1	5190	NV	NT	-7.707129	±20	PASS
			LV	NT	0.000000	±20	PASS
			HV	NT	-7.707129	±20	PASS
	Ant2	5190	NV	NT	0.000000	±20	PASS
			LV	NT	-7.707129	±20	PASS
			HV	NT	0.000000	±20	PASS
	Ant1	5230	NV	NT	0.000000	±20	PASS
			LV	NT	0.000000	±20	PASS
			HV	NT	0.000000	±20	PASS
	Ant2	5230	NV	NT	0.000000	±20	PASS
			LV	NT	0.000000	±20	PASS
			HV	NT	0.000000	±20	PASS
11AC80MIMO	Ant1	5210	NV	NT	0.000000	±20	PASS
			LV	NT	0.000000	±20	PASS

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			HV	NT	0.000000	±20	PASS
	Ant2	5210	NV	NT	0.000000	±20	PASS
			LV	NT	0.000000	±20	PASS
			HV	NT	15.355086	±20	PASS

Temperature							
Test Mode	Antenna	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	-3.861004	±20	PASS
			NV	-20	-7.722008	±20	PASS
			NV	-10	-3.861004	±20	PASS
			NV	0	-3.861004	±20	PASS
			NV	10	-3.861004	±20	PASS
			NV	20	-3.861004	±20	PASS
			NV	30	-7.722008	±20	PASS
			NV	40	-3.861004	±20	PASS
			NV	50	-7.722008	±20	PASS
	Ant2	5180	NV	-30	-3.861004	±20	PASS
			NV	-20	-3.861004	±20	PASS
			NV	-10	-3.861004	±20	PASS
			NV	0	-3.861004	±20	PASS
			NV	10	-3.861004	±20	PASS
			NV	20	-7.722008	±20	PASS
			NV	30	-3.861004	±20	PASS
			NV	40	-3.861004	±20	PASS
			NV	50	-3.861004	±20	PASS
	Ant1	5220	NV	-30	0.000000	±20	PASS
			NV	-20	-3.831418	±20	PASS
			NV	-10	-3.831418	±20	PASS
			NV	0	-3.831418	±20	PASS
			NV	10	-7.662835	±20	PASS
			NV	20	-3.831418	±20	PASS
			NV	30	-7.662835	±20	PASS
			NV	40	-7.662835	±20	PASS
			NV	50	-3.831418	±20	PASS
	Ant2	5220	NV	-30	-3.831418	±20	PASS
			NV	-20	-3.831418	±20	PASS
			NV	-10	-7.662835	±20	PASS
			NV	0	-3.831418	±20	PASS
			NV	10	-3.831418	±20	PASS
			NV	20	-7.662835	±20	PASS
			NV	30	-3.831418	±20	PASS
			NV	40	-3.831418	±20	PASS

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			NV	50	-7.662835	±20	PASS
	Ant1	5240	NV	-30	-3.816794	±20	PASS
			NV	-20	-3.816794	±20	PASS
			NV	-10	-7.633588	±20	PASS
			NV	0	-3.816794	±20	PASS
			NV	10	-7.633588	±20	PASS
			NV	20	-3.816794	±20	PASS
			NV	30	-7.633588	±20	PASS
			NV	40	-7.633588	±20	PASS
			NV	50	-7.633588	±20	PASS
	Ant2	5240	NV	-30	-3.816794	±20	PASS
			NV	-20	-3.816794	±20	PASS
			NV	-10	-7.633588	±20	PASS
			NV	0	-3.816794	±20	PASS
			NV	10	-3.816794	±20	PASS
			NV	20	-3.816794	±20	PASS
			NV	30	-3.816794	±20	PASS
			NV	40	-7.633588	±20	PASS
			NV	50	-7.633588	±20	PASS
11N20MIMO	Ant1	5180	NV	-30	-3.861004	±20	PASS
			NV	-20	0.000000	±20	PASS
			NV	-10	-3.861004	±20	PASS
			NV	0	-7.722008	±20	PASS
			NV	10	0.000000	±20	PASS
			NV	20	0.000000	±20	PASS
			NV	30	-3.861004	±20	PASS
			NV	40	-3.861004	±20	PASS
			NV	50	0.000000	±20	PASS
	Ant2	5180	NV	-30	0.000000	±20	PASS
			NV	-20	-3.861004	±20	PASS
			NV	-10	0.000000	±20	PASS
			NV	0	0.000000	±20	PASS
			NV	10	0.000000	±20	PASS
			NV	20	0.000000	±20	PASS
			NV	30	0.000000	±20	PASS
			NV	40	-3.861004	±20	PASS
			NV	50	0.000000	±20	PASS
	Ant1	5220	NV	-30	-3.831418	±20	PASS
			NV	-20	0.000000	±20	PASS
			NV	-10	3.831418	±20	PASS
			NV	0	0.000000	±20	PASS
			NV	10	0.000000	±20	PASS
			NV	20	0.000000	±20	PASS

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			NV	30	0.000000	±20	PASS
			NV	40	-3.831418	±20	PASS
			NV	50	0.000000	±20	PASS
	Ant2	5220	NV	-30	0.000000	±20	PASS
			NV	-20	0.000000	±20	PASS
			NV	-10	0.000000	±20	PASS
			NV	0	0.000000	±20	PASS
			NV	10	0.000000	±20	PASS
			NV	20	0.000000	±20	PASS
			NV	30	0.000000	±20	PASS
			NV	40	3.831418	±20	PASS
			NV	50	0.000000	±20	PASS
	Ant1	5240	NV	-30	-3.816794	±20	PASS
			NV	-20	-3.816794	±20	PASS
			NV	-10	0.000000	±20	PASS
			NV	0	0.000000	±20	PASS
			NV	10	0.000000	±20	PASS
			NV	20	-3.816794	±20	PASS
			NV	30	0.000000	±20	PASS
			NV	40	0.000000	±20	PASS
			NV	50	3.816794	±20	PASS
	Ant2	5240	NV	-30	0.000000	±20	PASS
			NV	-20	0.000000	±20	PASS
			NV	-10	0.000000	±20	PASS
			NV	0	0.000000	±20	PASS
			NV	10	3.816794	±20	PASS
			NV	20	0.000000	±20	PASS
			NV	30	3.816794	±20	PASS
			NV	40	0.000000	±20	PASS
			NV	50	0.000000	±20	PASS
11N40MIMO	Ant1	5190	NV	-30	0.000000	±20	PASS
			NV	-20	0.000000	±20	PASS
			NV	-10	0.000000	±20	PASS
			NV	0	0.000000	±20	PASS
			NV	10	0.000000	±20	PASS
			NV	20	0.000000	±20	PASS
			NV	30	-7.707129	±20	PASS
			NV	40	0.000000	±20	PASS
			NV	50	0.000000	±20	PASS
	Ant2	5190	NV	-30	0.000000	±20	PASS
			NV	-20	0.000000	±20	PASS
			NV	-10	0.000000	±20	PASS
			NV	0	0.000000	±20	PASS

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			NV	10	0.000000	±20	PASS
			NV	20	-7.707129	±20	PASS
			NV	30	0.000000	±20	PASS
			NV	40	0.000000	±20	PASS
			NV	50	0.000000	±20	PASS
	Ant1	5230	NV	-30	-7.648184	±20	PASS
			NV	-20	-7.648184	±20	PASS
			NV	-10	0.000000	±20	PASS
			NV	0	0.000000	±20	PASS
			NV	10	0.000000	±20	PASS
			NV	20	0.000000	±20	PASS
			NV	30	0.000000	±20	PASS
			NV	40	-7.648184	±20	PASS
			NV	50	0.000000	±20	PASS
	Ant2	5230	NV	-30	0.000000	±20	PASS
			NV	-20	0.000000	±20	PASS
			NV	-10	0.000000	±20	PASS
			NV	0	0.000000	±20	PASS
			NV	10	0.000000	±20	PASS
			NV	20	0.000000	±20	PASS
			NV	30	0.000000	±20	PASS
			NV	40	0.000000	±20	PASS
			NV	50	0.000000	±20	PASS
11AC20MIMO	Ant1	5180	NV	-30	3.861004	±20	PASS
			NV	-20	0.000000	±20	PASS
			NV	-10	0.000000	±20	PASS
			NV	0	0.000000	±20	PASS
			NV	10	3.861004	±20	PASS
			NV	20	3.861004	±20	PASS
			NV	30	0.000000	±20	PASS
			NV	40	3.861004	±20	PASS
			NV	50	3.861004	±20	PASS
	Ant2	5180	NV	-30	0.000000	±20	PASS
			NV	-20	3.861004	±20	PASS
			NV	-10	3.861004	±20	PASS
			NV	0	0.000000	±20	PASS
			NV	10	3.861004	±20	PASS
			NV	20	0.000000	±20	PASS
			NV	30	0.000000	±20	PASS
			NV	40	0.000000	±20	PASS
			NV	50	0.000000	±20	PASS
	Ant1	5220	NV	-30	0.000000	±20	PASS
			NV	-20	3.831418	±20	PASS

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			NV	-10	0.000000	±20	PASS
			NV	0	0.000000	±20	PASS
			NV	10	0.000000	±20	PASS
			NV	20	0.000000	±20	PASS
			NV	30	0.000000	±20	PASS
			NV	40	3.831418	±20	PASS
			NV	50	0.000000	±20	PASS
	Ant2	5220	NV	-30	0.000000	±20	PASS
			NV	-20	0.000000	±20	PASS
			NV	-10	3.831418	±20	PASS
			NV	0	-3.831418	±20	PASS
			NV	10	0.000000	±20	PASS
			NV	20	0.000000	±20	PASS
			NV	30	0.000000	±20	PASS
			NV	40	0.000000	±20	PASS
			NV	50	0.000000	±20	PASS
	Ant1	5240	NV	-30	0.000000	±20	PASS
			NV	-20	3.816794	±20	PASS
			NV	-10	0.000000	±20	PASS
			NV	0	0.000000	±20	PASS
			NV	10	0.000000	±20	PASS
			NV	20	0.000000	±20	PASS
			NV	30	0.000000	±20	PASS
			NV	40	0.000000	±20	PASS
			NV	50	3.816794	±20	PASS
	Ant2	5240	NV	-30	0.000000	±20	PASS
			NV	-20	3.816794	±20	PASS
			NV	-10	0.000000	±20	PASS
			NV	0	0.000000	±20	PASS
			NV	10	0.000000	±20	PASS
			NV	20	0.000000	±20	PASS
			NV	30	3.816794	±20	PASS
			NV	40	3.816794	±20	PASS
			NV	50	0.000000	±20	PASS
11AC40MIMO	Ant1	5190	NV	-30	0.000000	±20	PASS
			NV	-20	0.000000	±20	PASS
			NV	-10	0.000000	±20	PASS
			NV	0	0.000000	±20	PASS
			NV	10	0.000000	±20	PASS
			NV	20	0.000000	±20	PASS
			NV	30	0.000000	±20	PASS
			NV	40	-7.707129	±20	PASS
			NV	50	0.000000	±20	PASS

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	Ant2	5190	NV	-30	0.000000	±20	PASS
			NV	-20	0.000000	±20	PASS
			NV	-10	0.000000	±20	PASS
			NV	0	0.000000	±20	PASS
			NV	10	0.000000	±20	PASS
			NV	20	-7.707129	±20	PASS
			NV	30	0.000000	±20	PASS
			NV	40	0.000000	±20	PASS
			NV	50	0.000000	±20	PASS
	Ant1	5230	NV	-30	0.000000	±20	PASS
			NV	-20	0.000000	±20	PASS
			NV	-10	-7.648184	±20	PASS
			NV	0	0.000000	±20	PASS
			NV	10	0.000000	±20	PASS
			NV	20	0.000000	±20	PASS
			NV	30	0.000000	±20	PASS
			NV	40	0.000000	±20	PASS
			NV	50	0.000000	±20	PASS
	Ant2	5230	NV	-30	0.000000	±20	PASS
			NV	-20	0.000000	±20	PASS
			NV	-10	0.000000	±20	PASS
			NV	0	0.000000	±20	PASS
			NV	10	0.000000	±20	PASS
			NV	20	0.000000	±20	PASS
			NV	30	0.000000	±20	PASS
			NV	40	0.000000	±20	PASS
			NV	50	0.000000	±20	PASS
11AC80MIMO	Ant1	5210	NV	-30	15.355086	±20	PASS
			NV	-20	0.000000	±20	PASS
			NV	-10	0.000000	±20	PASS
			NV	0	0.000000	±20	PASS
			NV	10	0.000000	±20	PASS
			NV	20	0.000000	±20	PASS
			NV	30	0.000000	±20	PASS
			NV	40	0.000000	±20	PASS
			NV	50	-15.355086	±20	PASS
	Ant2	5210	NV	-30	0.000000	±20	PASS
			NV	-20	15.355086	±20	PASS
			NV	-10	0.000000	±20	PASS
			NV	0	0.000000	±20	PASS
			NV	10	0.000000	±20	PASS
			NV	20	0.000000	±20	PASS
			NV	30	-15.355086	±20	PASS

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			NV	40	0.000000	±20	PASS
			NV	50	0.000000	±20	PASS

10.6 Appendix H: Duty Cycle

10.6.1 Test Result

Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	1.36	1.50	90.67	---	---
	Ant2	5180	1.36	1.52	89.47	---	---
	Ant1	5220	1.36	1.54	88.31	---	---
	Ant2	5220	1.36	1.52	89.47	---	---
	Ant1	5240	1.36	1.52	89.47	---	---
	Ant2	5240	1.36	1.52	89.47	---	---
11N20MIMO	Ant1	5180	1.28	1.46	87.67	---	---
	Ant2	5180	1.28	1.44	88.89	---	---
	Ant1	5220	1.28	1.46	87.67	---	---
	Ant2	5220	1.28	1.44	88.89	---	---
	Ant1	5240	1.27	1.45	87.59	---	---
	Ant2	5240	1.28	1.46	87.67	---	---
11N40MIMO	Ant1	5190	0.64	0.80	80.00	---	---
	Ant2	5190	0.64	0.82	78.05	---	---
	Ant1	5230	0.64	0.82	78.05	---	---
	Ant2	5230	0.64	0.82	78.05	---	---
11AC20MIMO	Ant1	5180	1.28	1.44	88.89	---	---
	Ant2	5180	1.28	1.46	87.67	---	---
	Ant1	5220	1.28	1.44	88.89	---	---
	Ant2	5220	1.28	1.44	88.89	---	---
	Ant1	5240	1.28	1.46	87.67	---	---
	Ant2	5240	1.28	1.44	88.89	---	---
11AC40MIMO	Ant1	5190	0.64	0.82	78.05	---	---
	Ant2	5190	0.64	0.80	80.00	---	---
	Ant1	5230	0.64	0.82	78.05	---	---
	Ant2	5230	0.64	0.82	78.05	---	---
11AC80MIMO	Ant1	5210	0.32	0.48	66.67	---	---
	Ant2	5210	0.32	0.50	64.00	---	---

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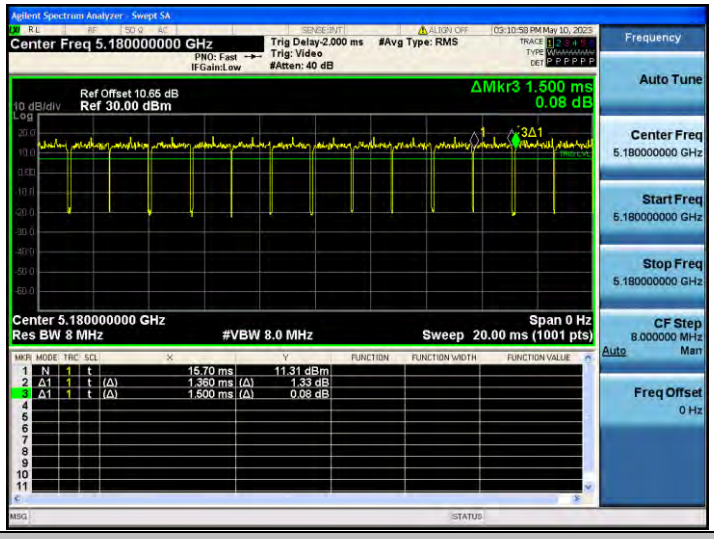
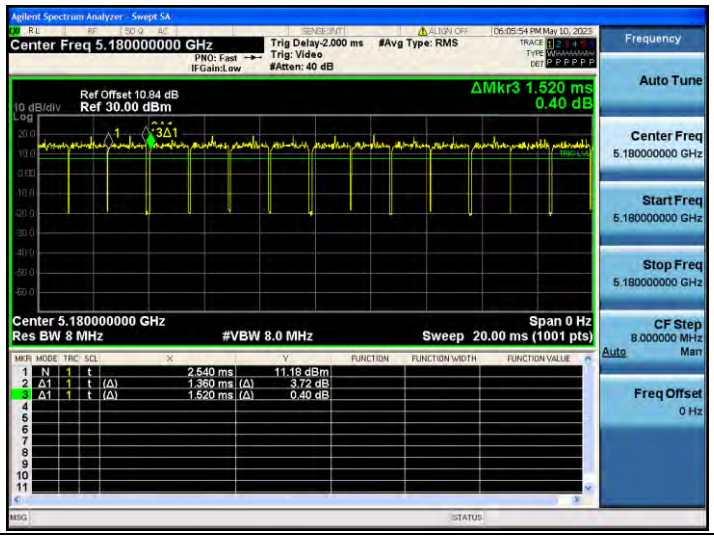
10.6.2 Test Graphs

11A_Ant1_5180



11A_Ant2_5180



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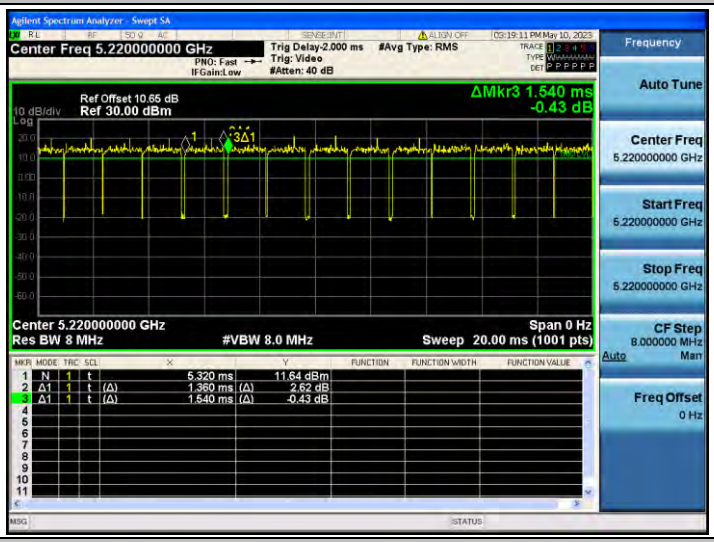
11A_Ant1_5220



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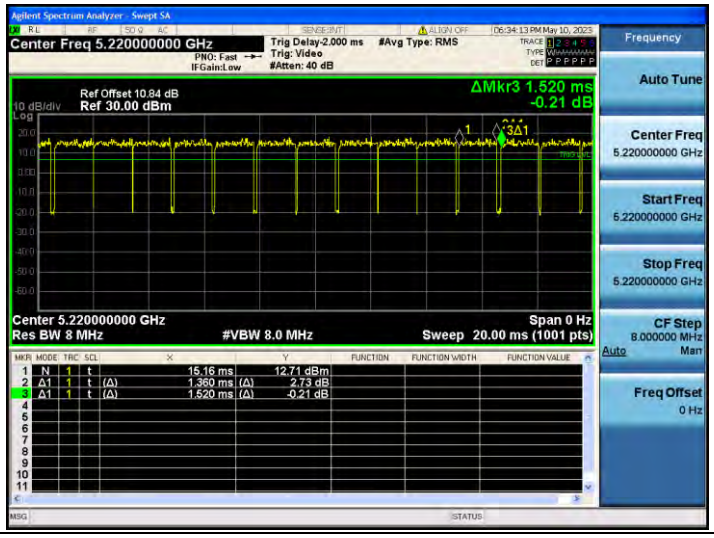

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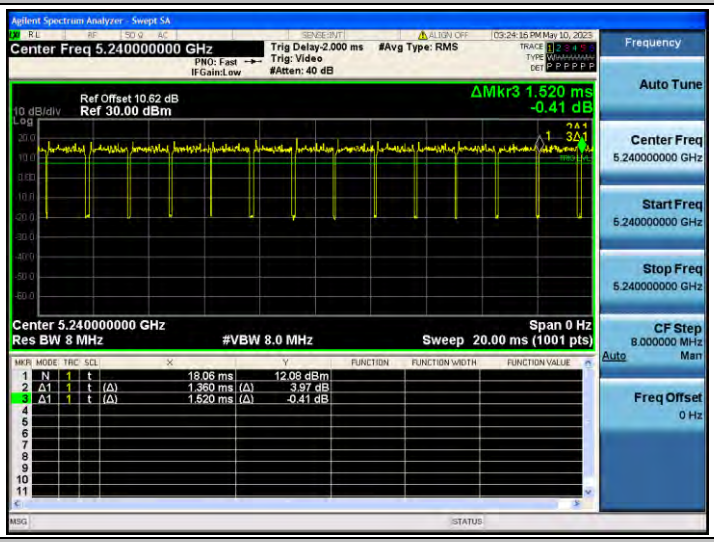

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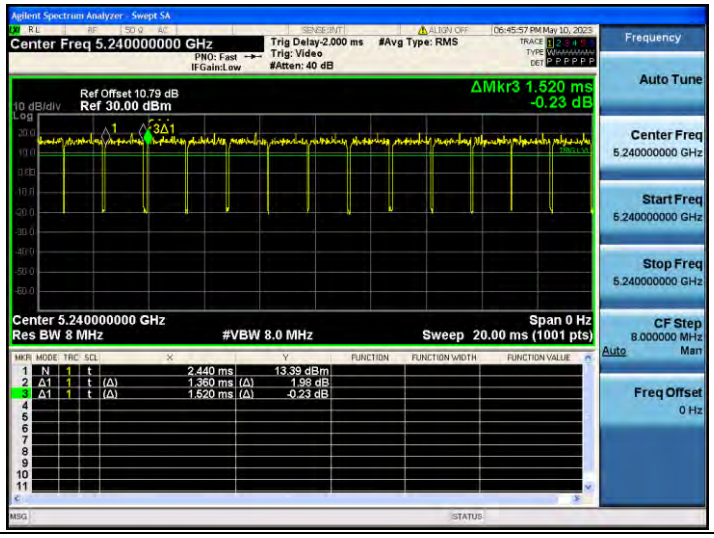

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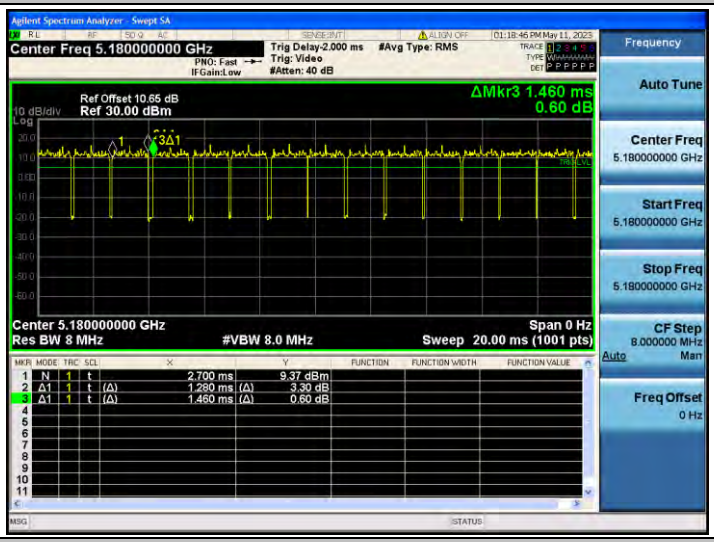

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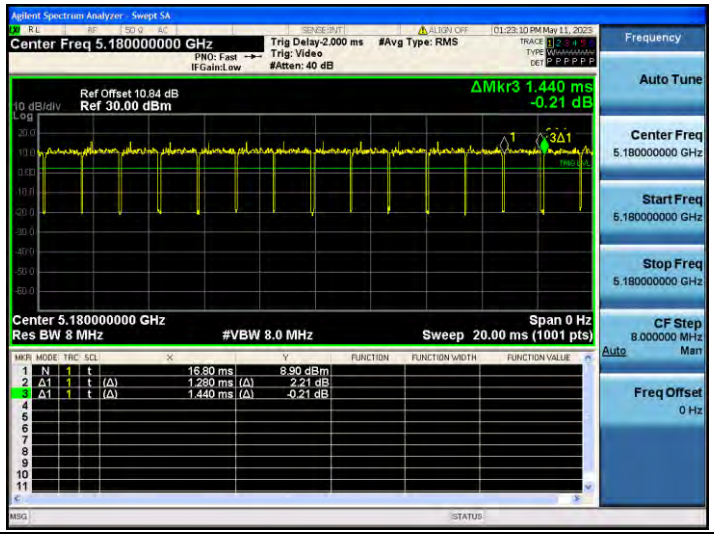

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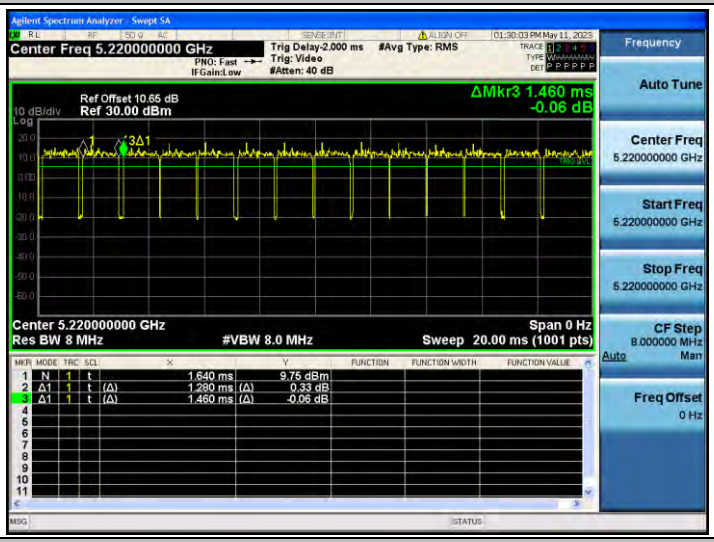

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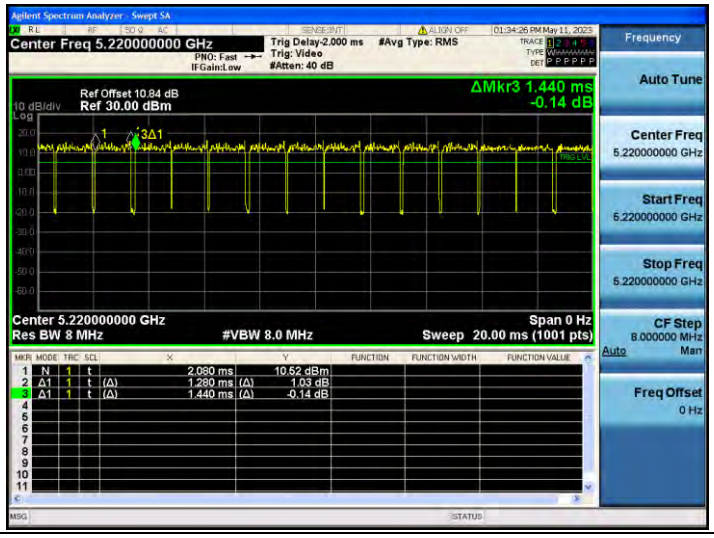

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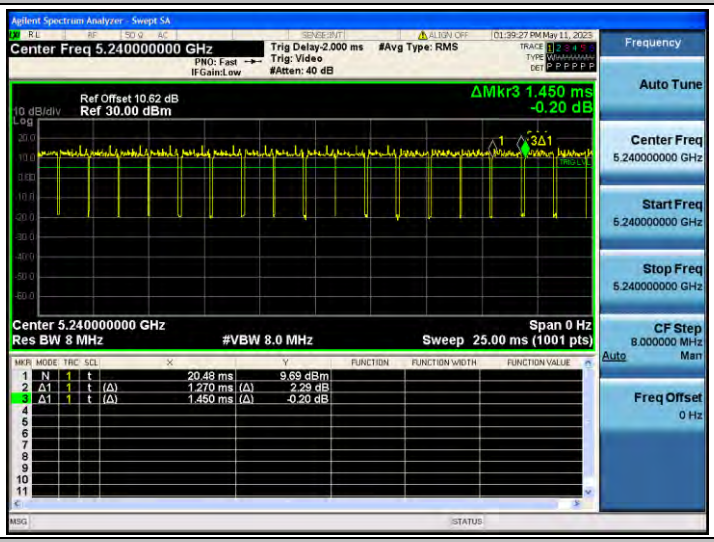
11N20MIMO_Ant1_5240



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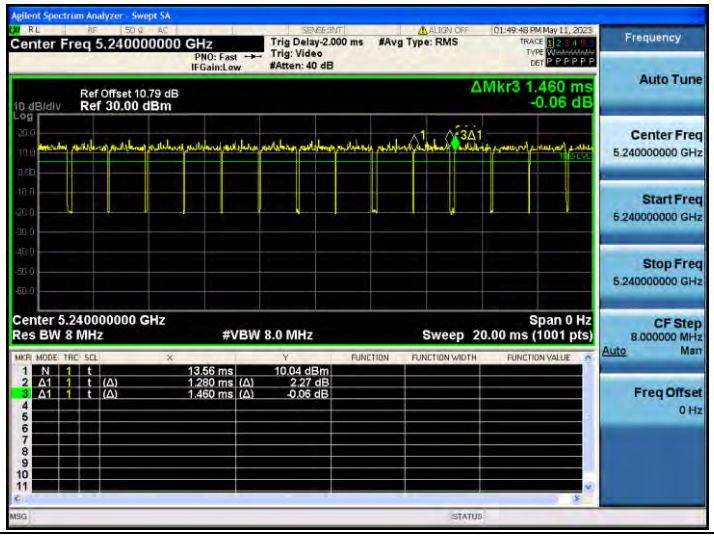

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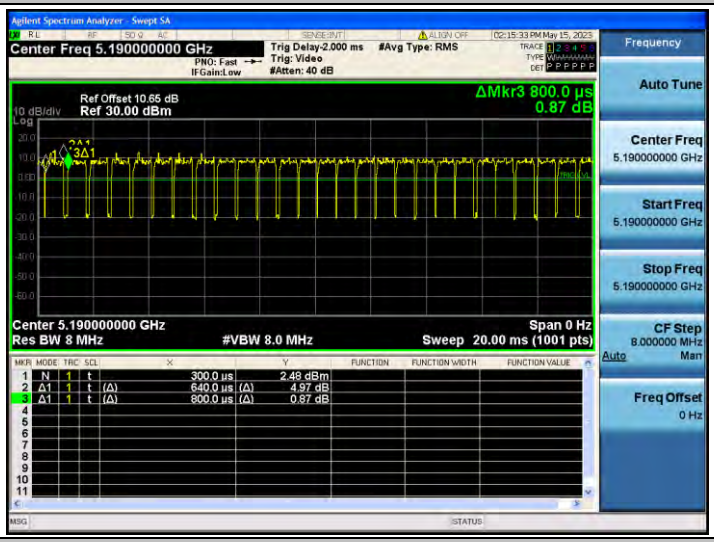

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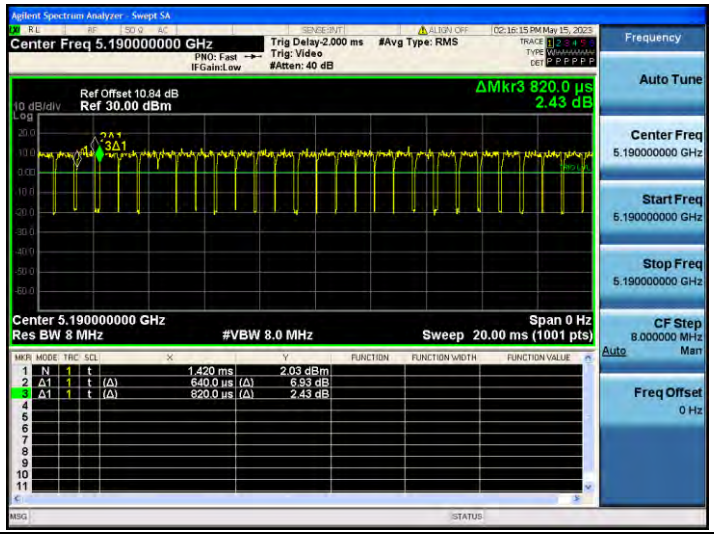

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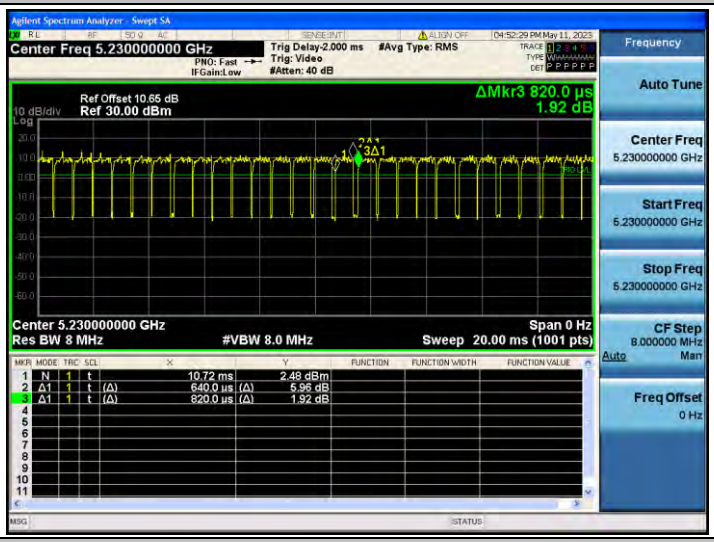

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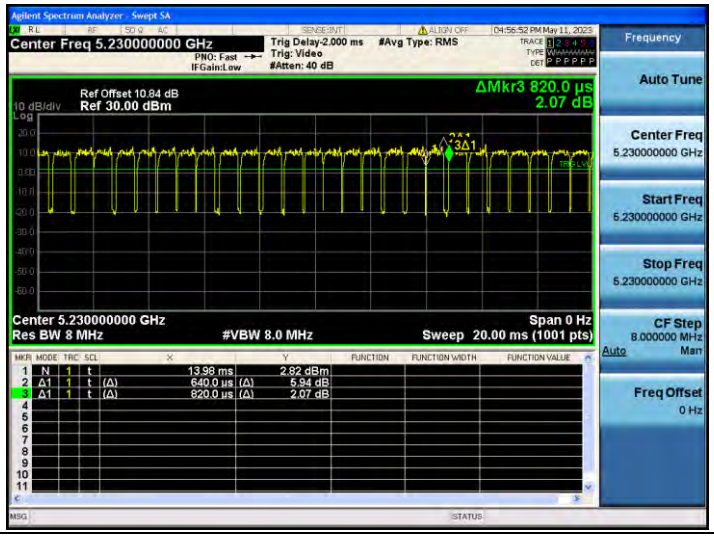

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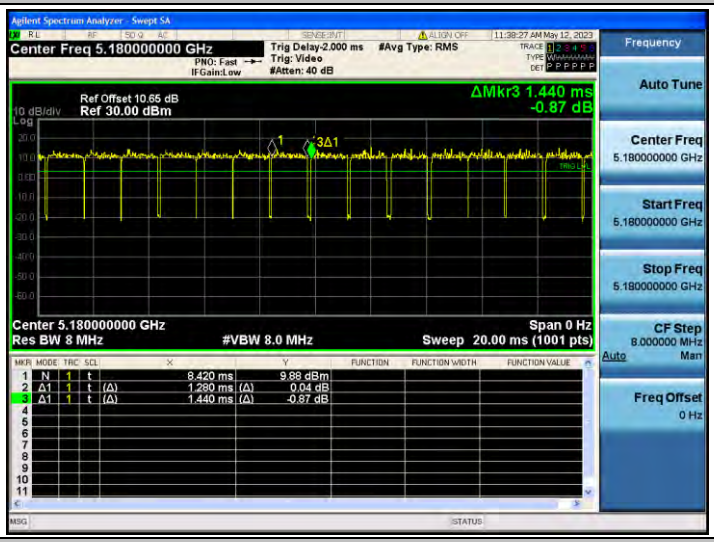

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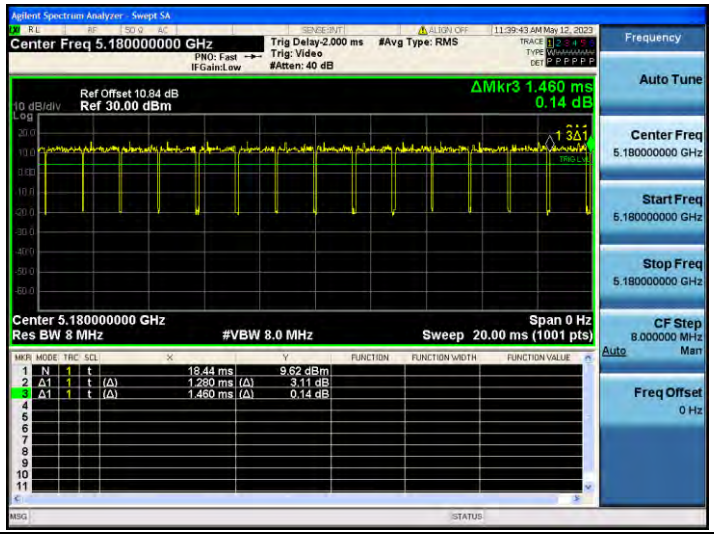

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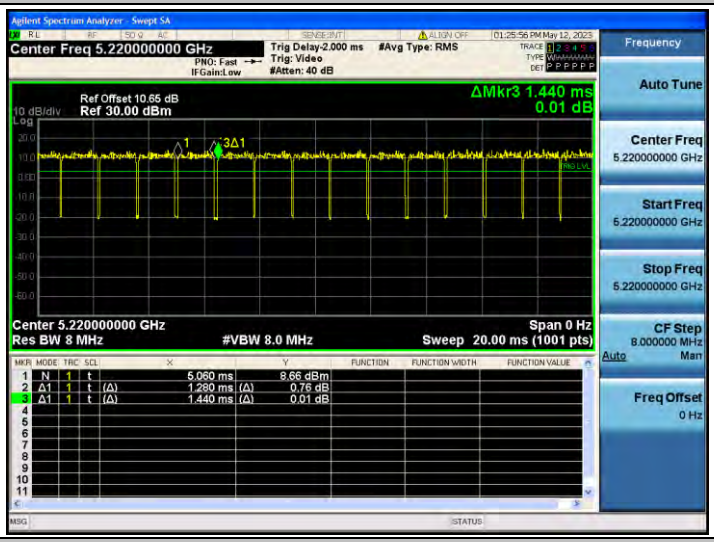

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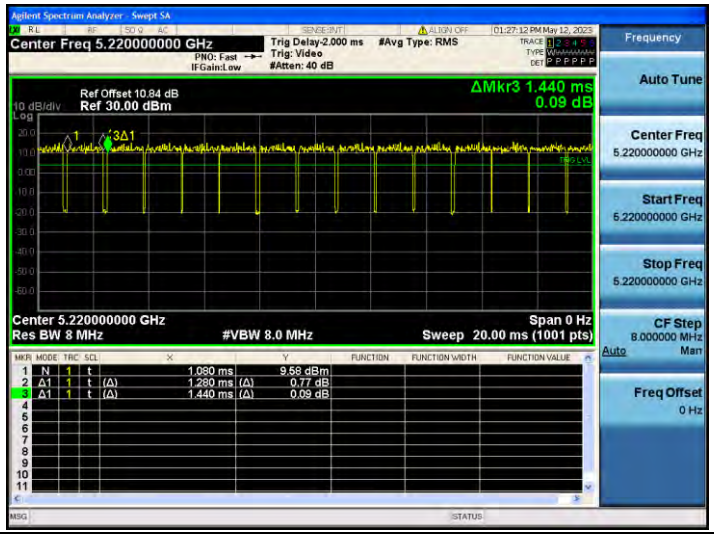

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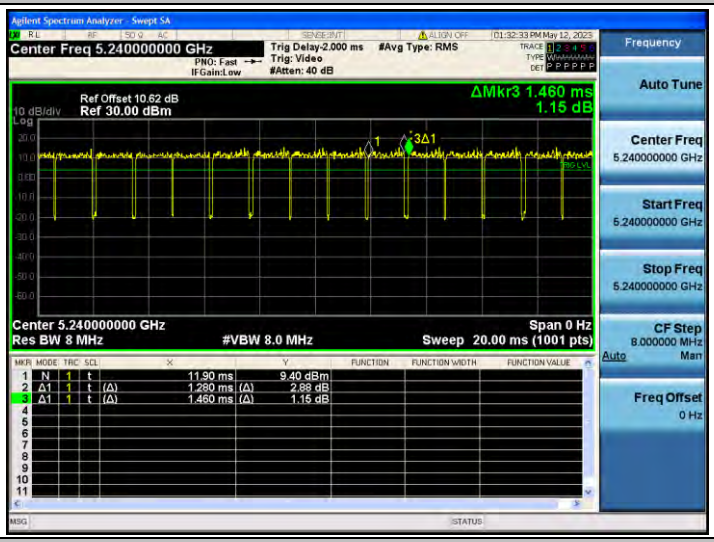

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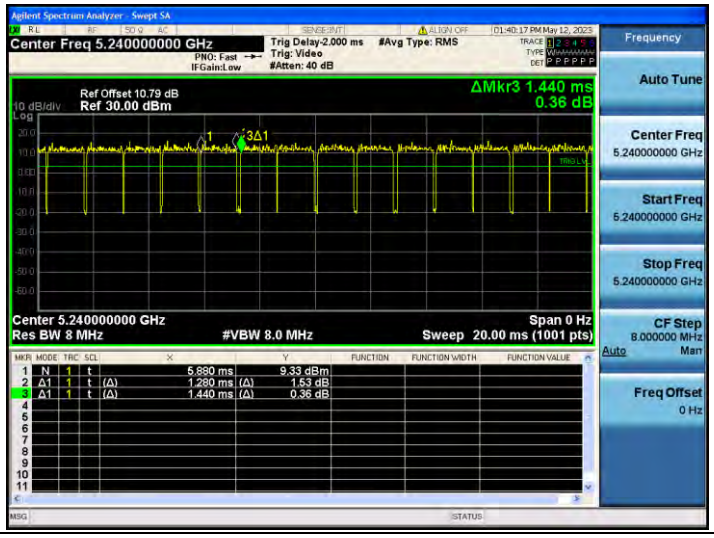

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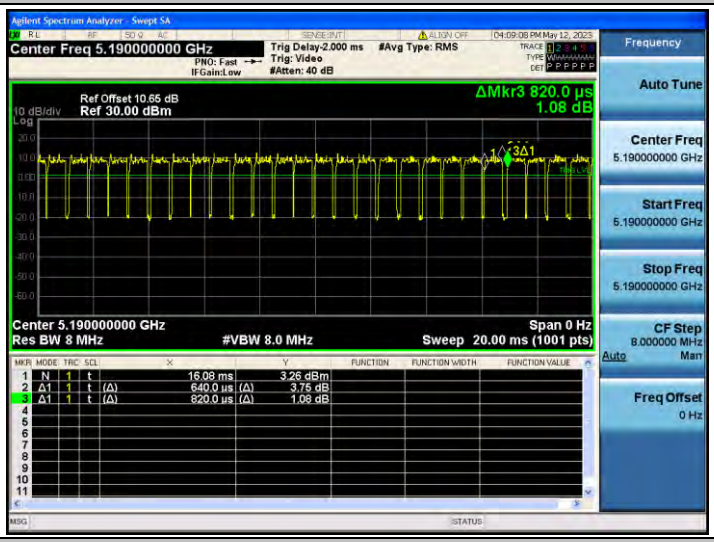

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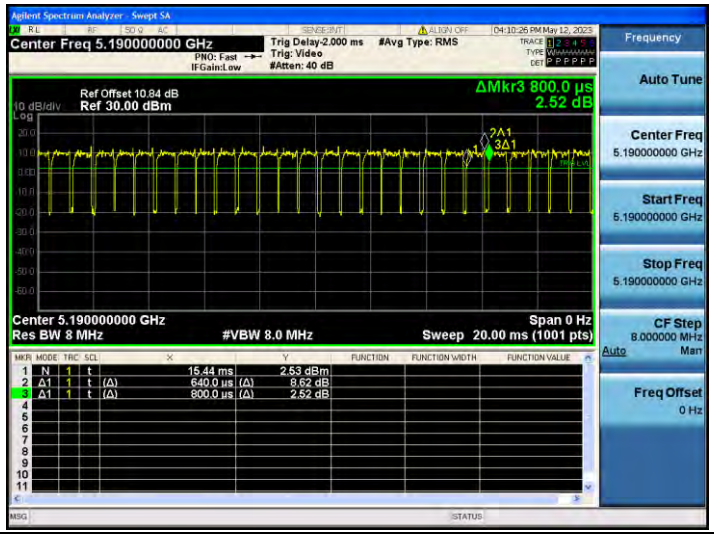

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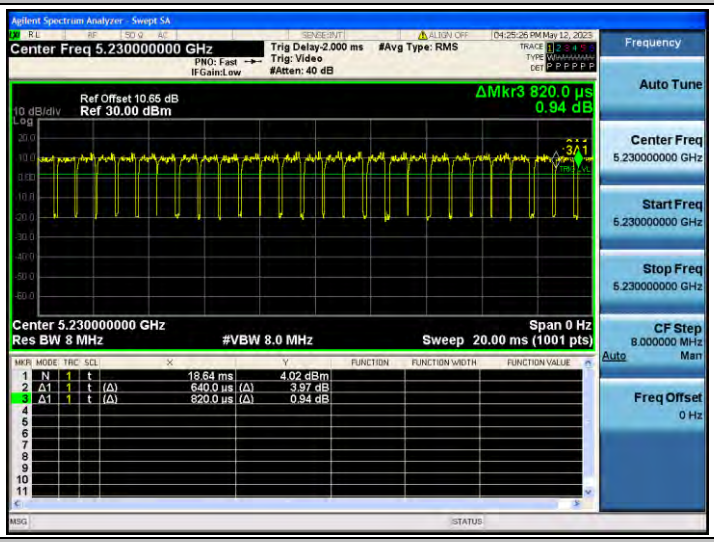
11AC40MIMO_Ant1_5230



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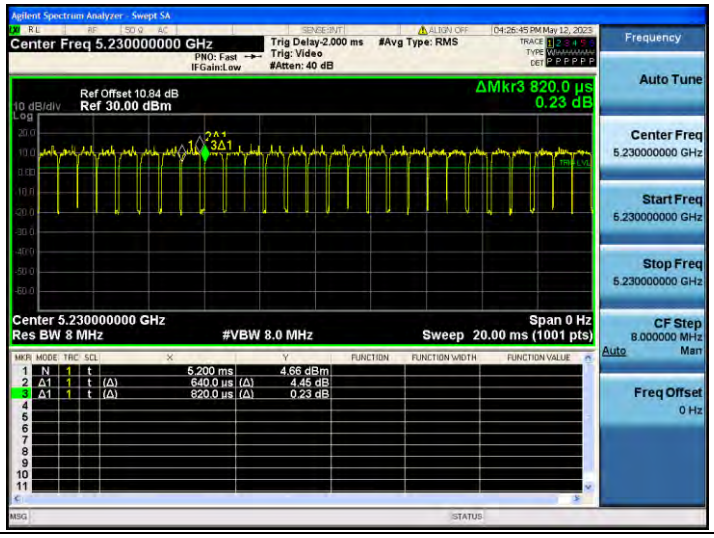

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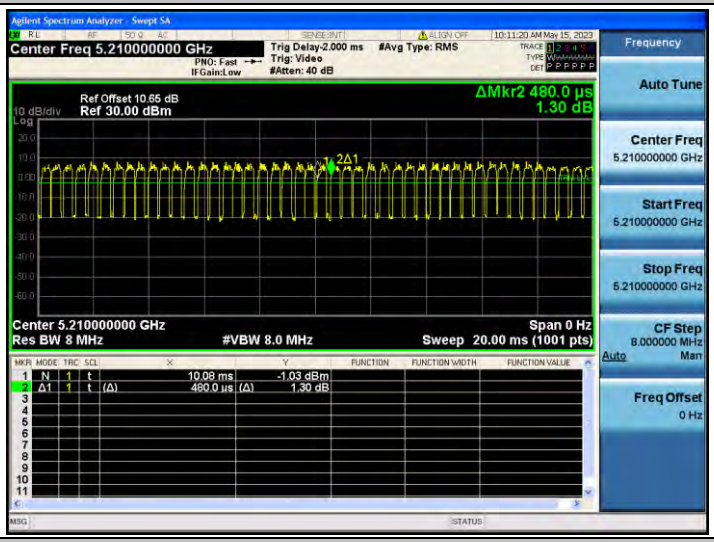
11AC80MIMO_Ant1_5210



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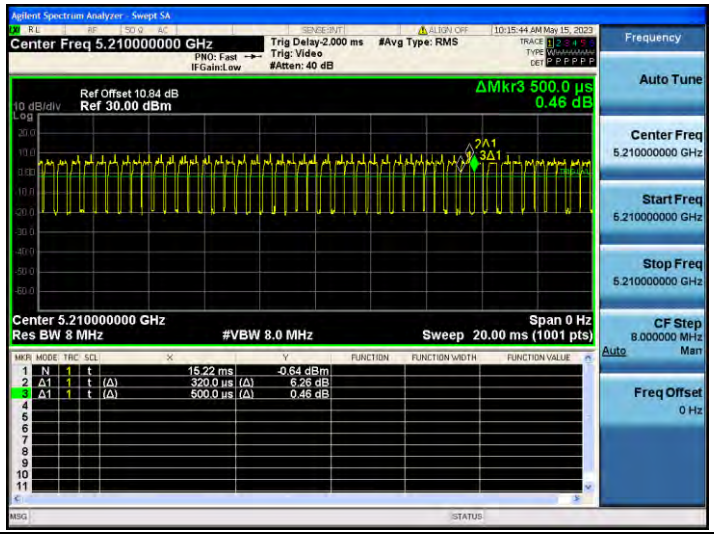

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