

RF Test Data for RLAN(5.2G) (Conducted Measurement)

Product Name: SET TOP BOX

Trade Mark: STAVIX

Test Model: MK-OM02-AM

FCC ID: 2A4GF-AO908AB

Environmental Conditions

Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

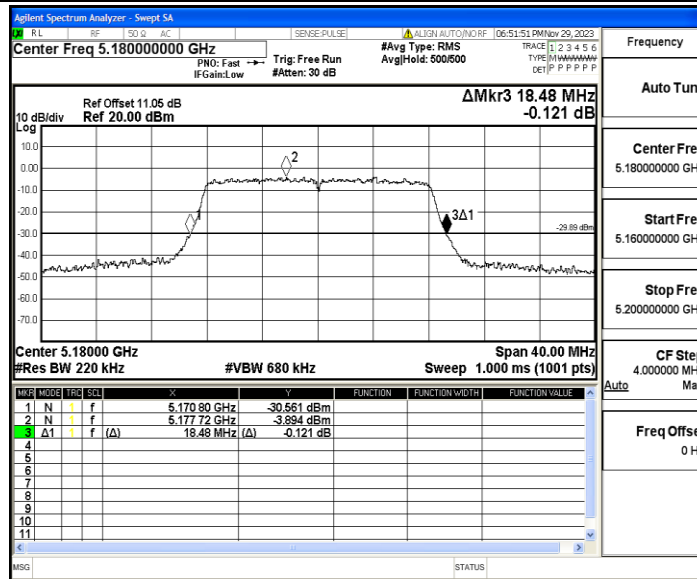
Appendix A1: Emission Bandwidth

Test Result

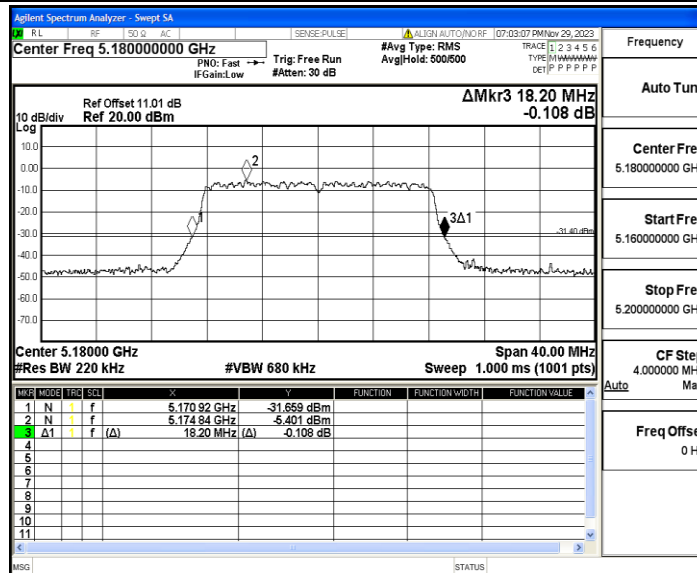
TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	18.480	5170.800	5189.280	---	---
	Ant2	5180	18.200	5170.920	5189.120	---	---
	Ant1	5200	18.240	5190.960	5209.200	---	---
	Ant2	5200	18.280	5190.920	5209.200	---	---
	Ant1	5240	18.120	5230.960	5249.080	---	---
	Ant2	5240	18.160	5230.960	5249.120	---	---
11N20MIMO	Ant1	5180	19.360	5170.400	5189.760	---	---
	Ant2	5180	19.440	5170.360	5189.800	---	---
	Ant1	5200	19.520	5190.320	5209.840	---	---
	Ant2	5200	19.560	5190.320	5209.880	---	---
	Ant1	5240	19.360	5230.360	5249.720	---	---
	Ant2	5240	19.520	5230.360	5249.880	---	---
11N40MIMO	Ant1	5190	40.880	5169.760	5210.640	---	---
	Ant2	5190	41.040	5169.760	5210.800	---	---
	Ant1	5230	39.760	5210.160	5249.920	---	---
	Ant2	5230	40.720	5209.920	5250.640	---	---
11AC20MIMO	Ant1	5180	19.320	5170.400	5189.720	---	---
	Ant2	5180	19.600	5170.320	5189.920	---	---
	Ant1	5200	19.520	5190.280	5209.800	---	---
	Ant2	5200	23.920	5189.440	5213.360	---	---
	Ant1	5240	19.440	5230.320	5249.760	---	---
	Ant2	5240	30.040	5225.560	5255.600	---	---
11AC40MIMO	Ant1	5190	41.120	5169.280	5210.400	---	---
	Ant2	5190	41.360	5169.360	5210.720	---	---
	Ant1	5230	40.800	5209.600	5250.400	---	---
	Ant2	5230	41.200	5209.360	5250.560	---	---
11AC80MIMO	Ant1	5210	81.440	5169.520	5250.960	---	---
	Ant2	5210	84.800	5170.000	5254.800	---	---

Test Graphs

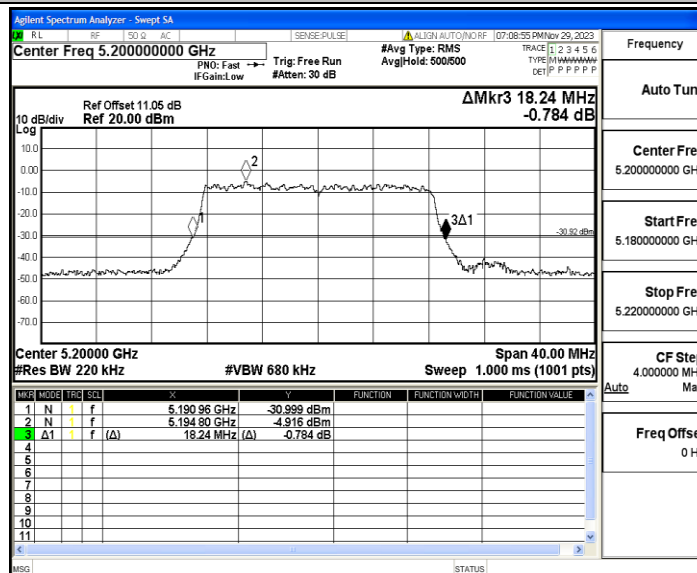
11A_Ant1_5180



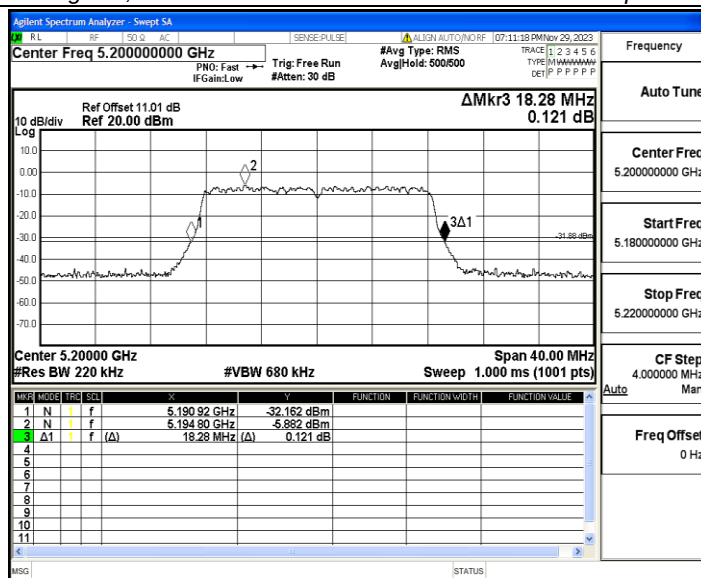
11A_Ant2_5180



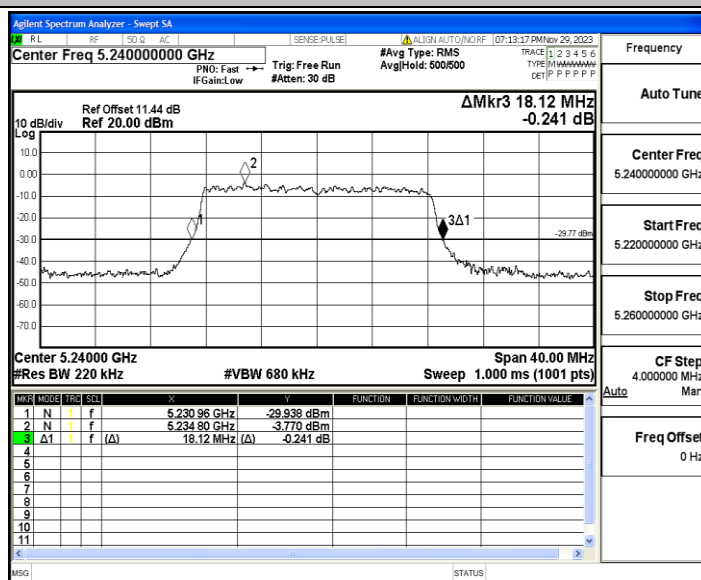
11A_Ant1_5200



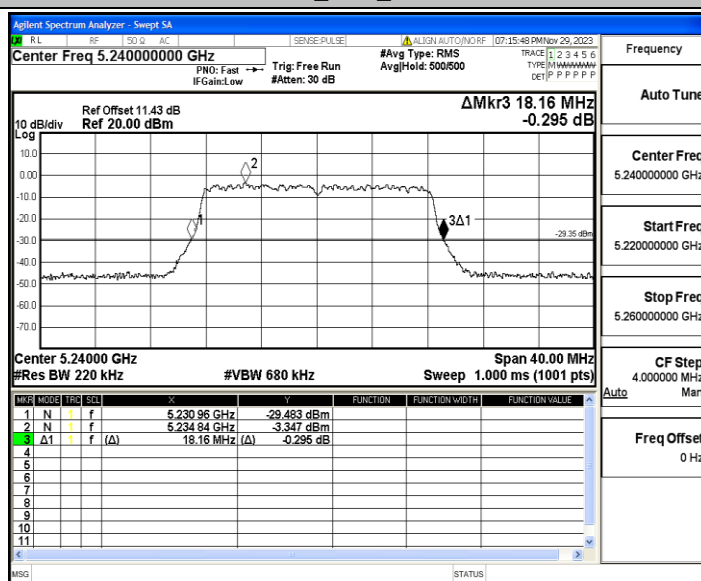
11A_Ant2_5200



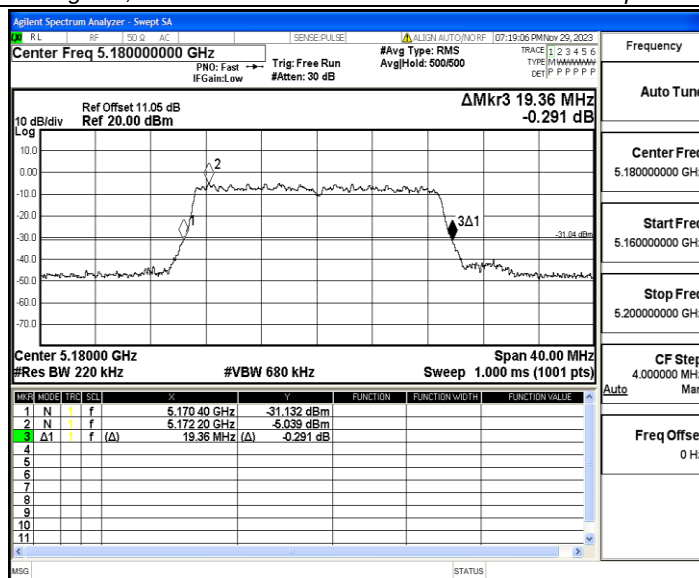
11A_Ant1_5240



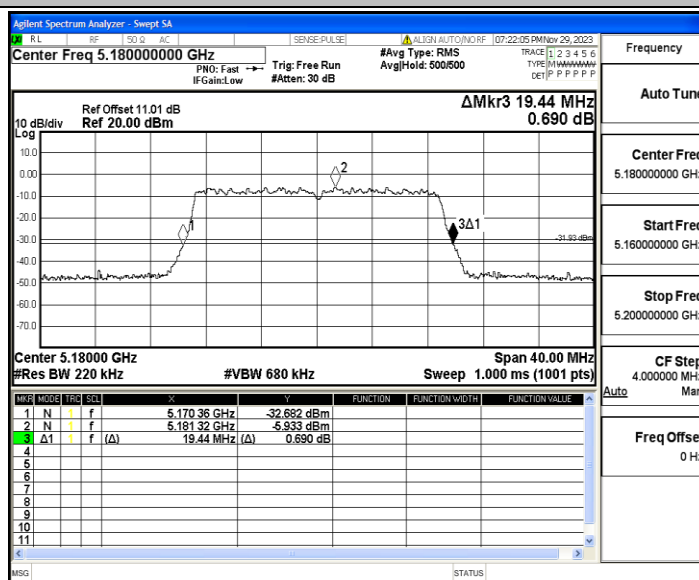
11A_Ant2_5240



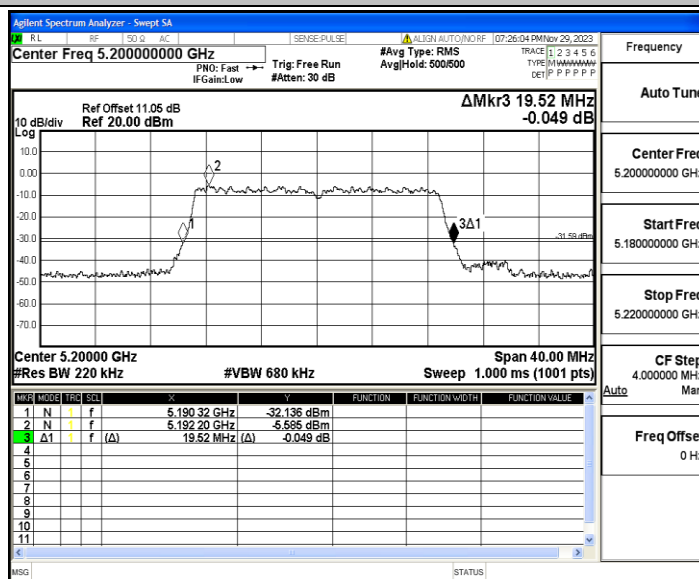
11N20MIMO_Ant1_5180



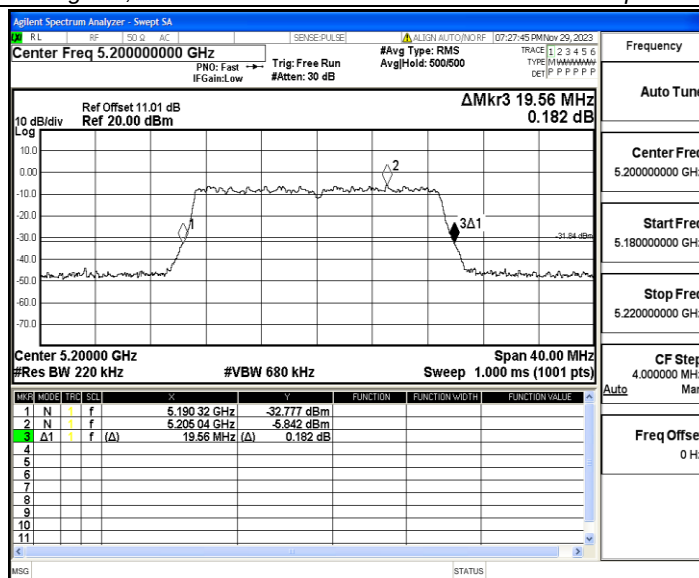
11N20MIMO_Ant2_5180



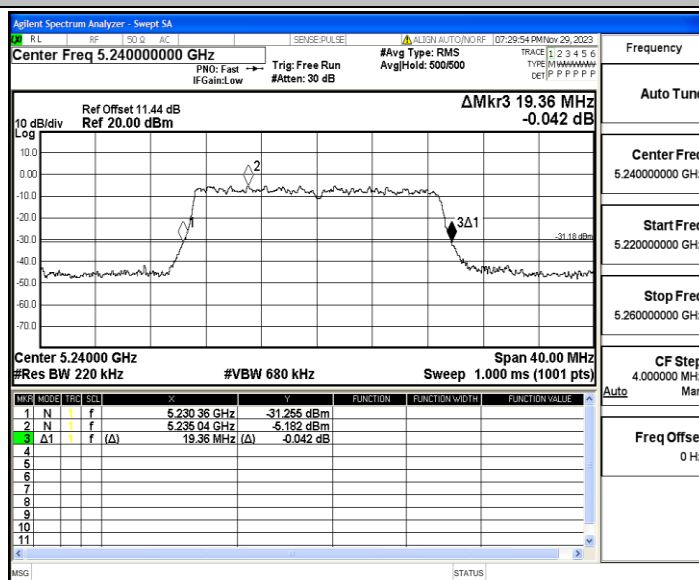
11N20MIMO_Ant1_5200



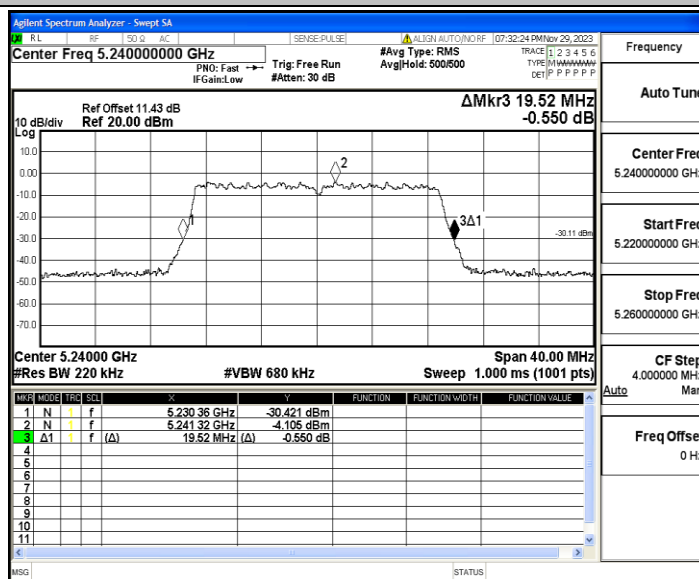
11N20MIMO_Ant2_5200



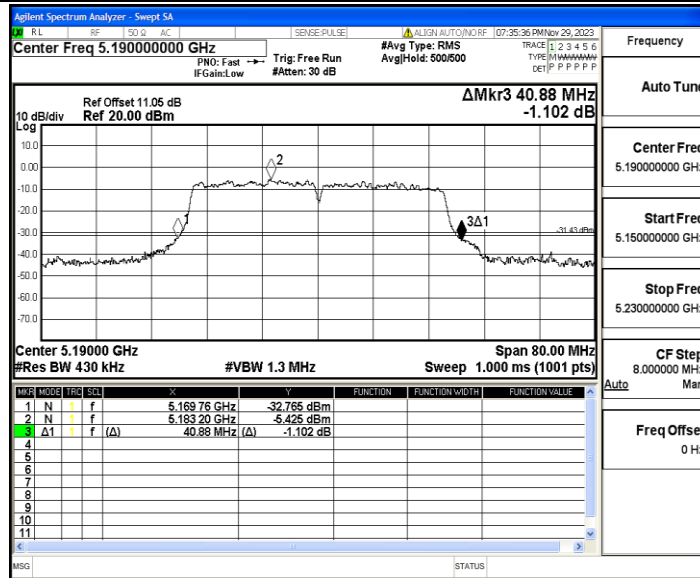
11N20MIMO_Ant1_5240



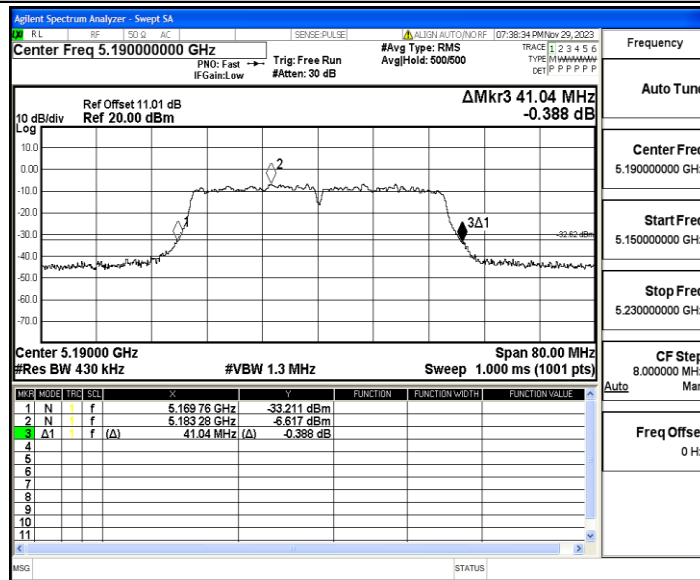
11N20MIMO_Ant2_5240



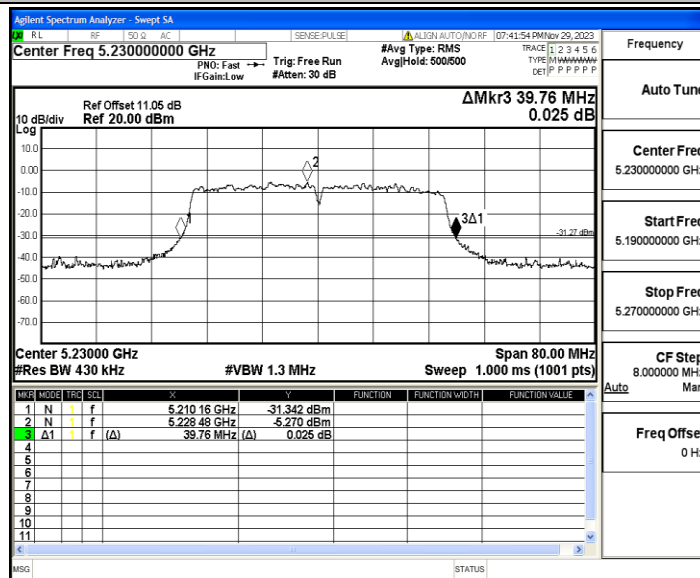
11N40MIMO_Ant1_5190



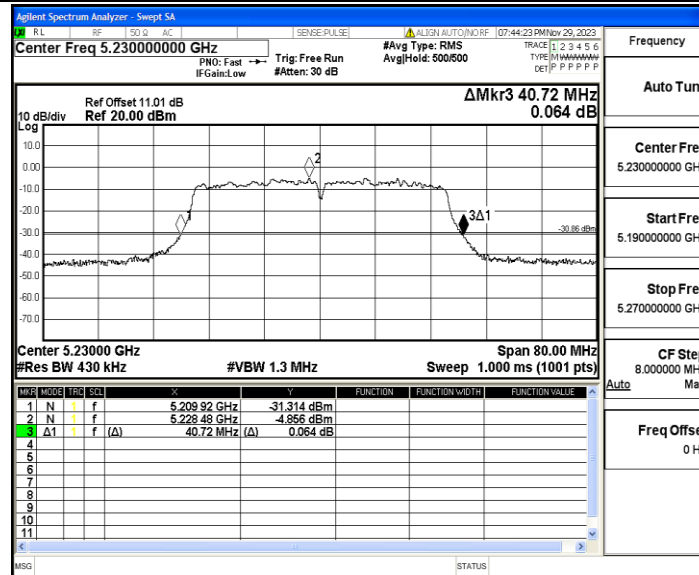
11N40MIMO_Ant2_5190



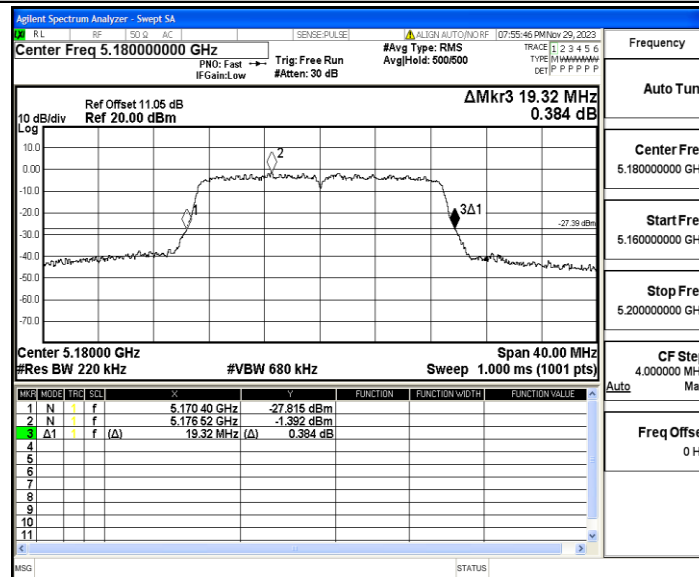
11N40MIMO_Ant1_5230



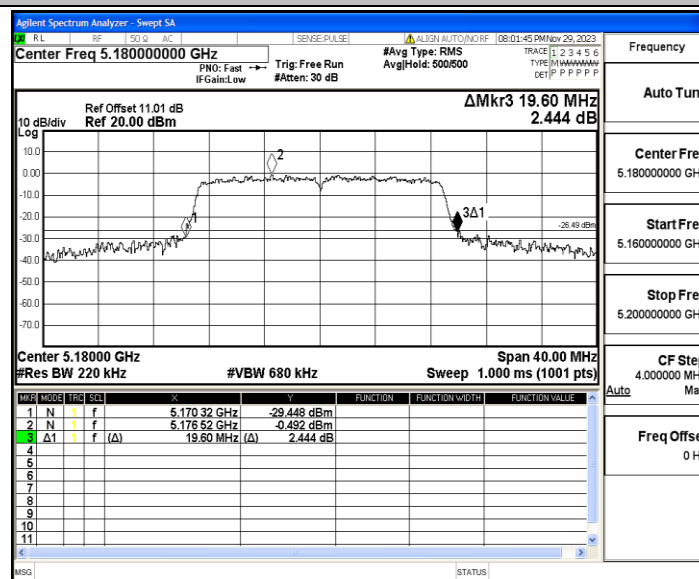
11N40MIMO_Ant2_5230



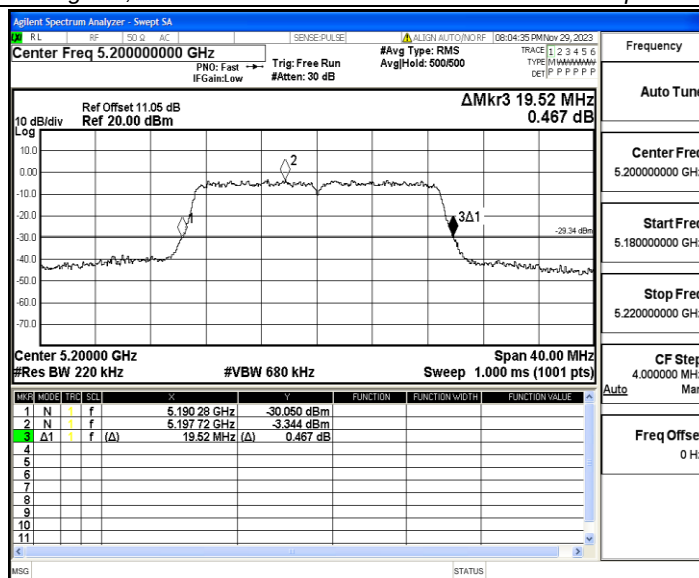
11AC20MIMO_Ant1_5180



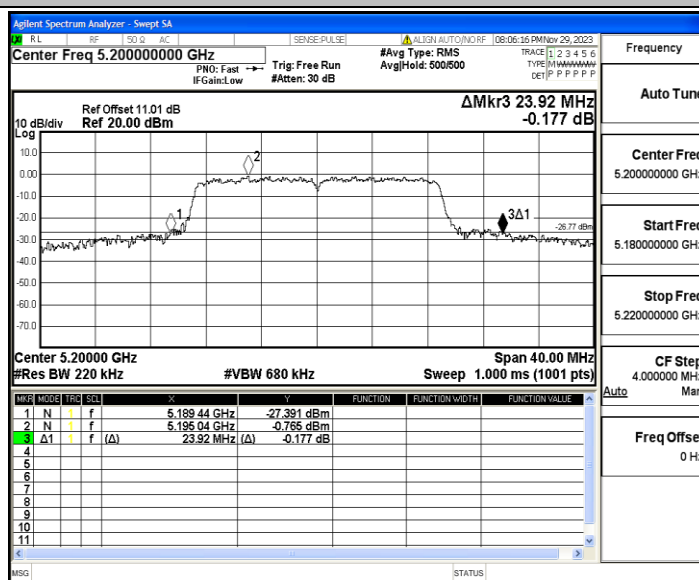
11AC20MIMO_Ant2_5180



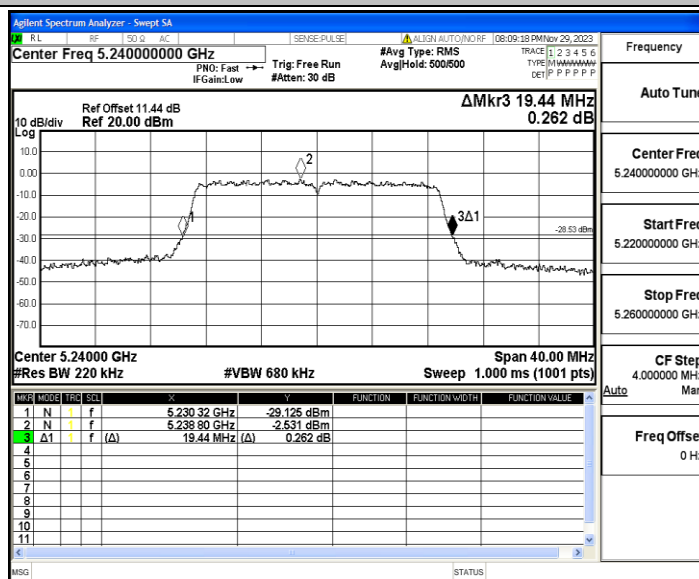
11AC20MIMO_Ant1_5200



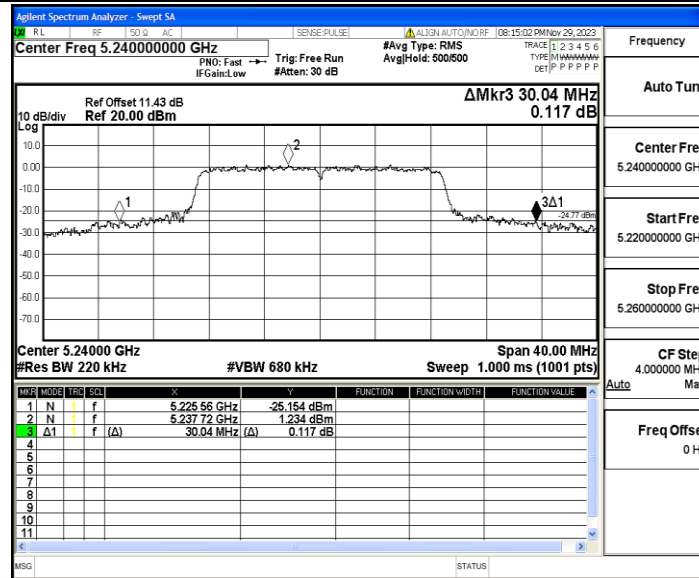
11AC20MIMO_Ant2_5200



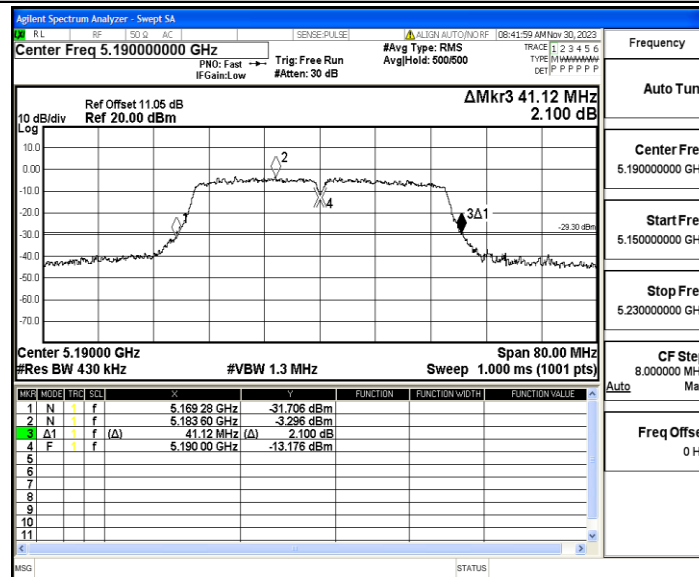
11AC20MIMO_Ant1_5240



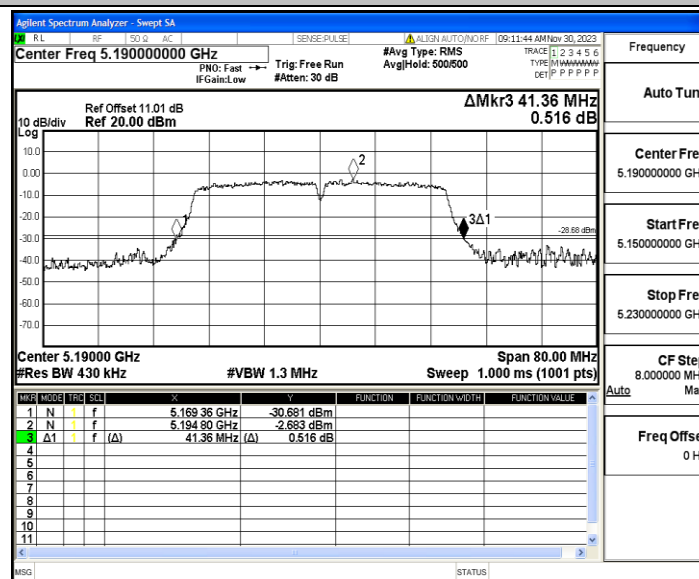
11AC20MIMO_Ant2_5240



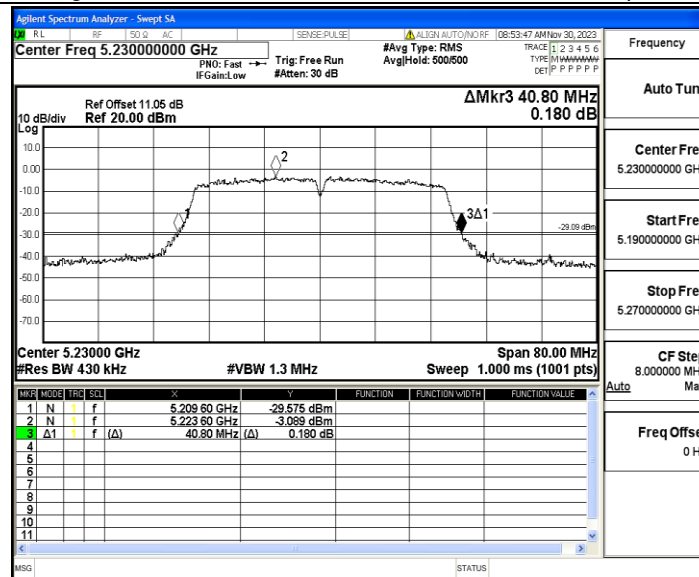
11AC40MIMO_Ant1_5190



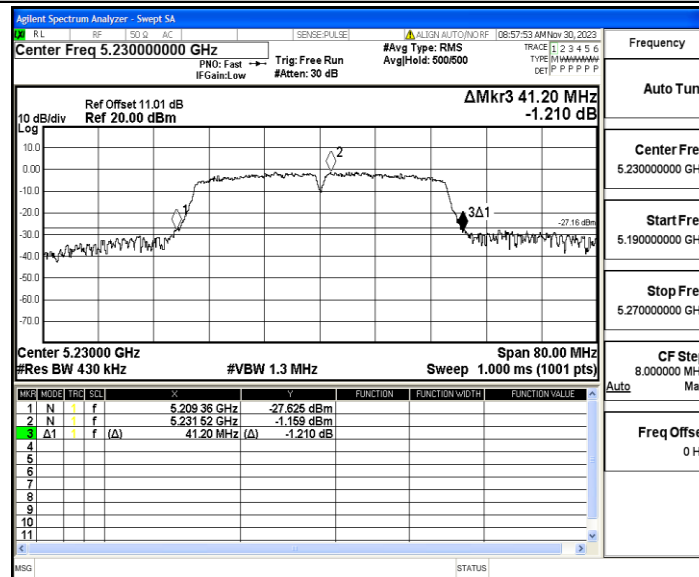
11AC40MIMO_Ant2_5190



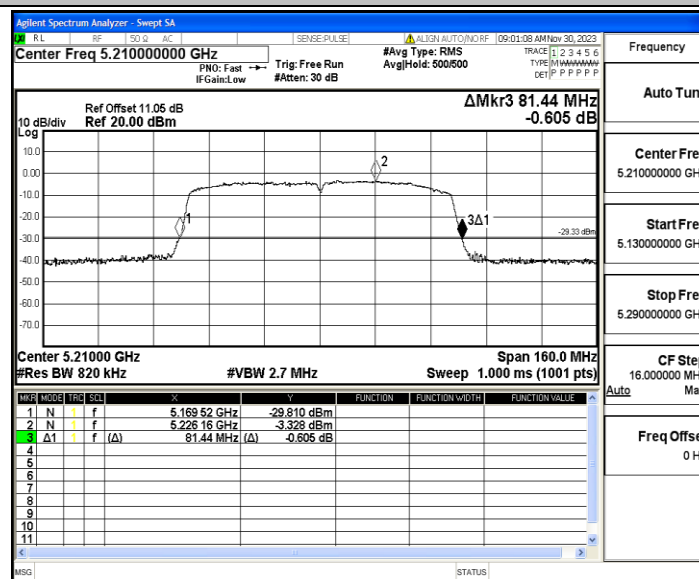
11AC40MIMO_Ant1_5230



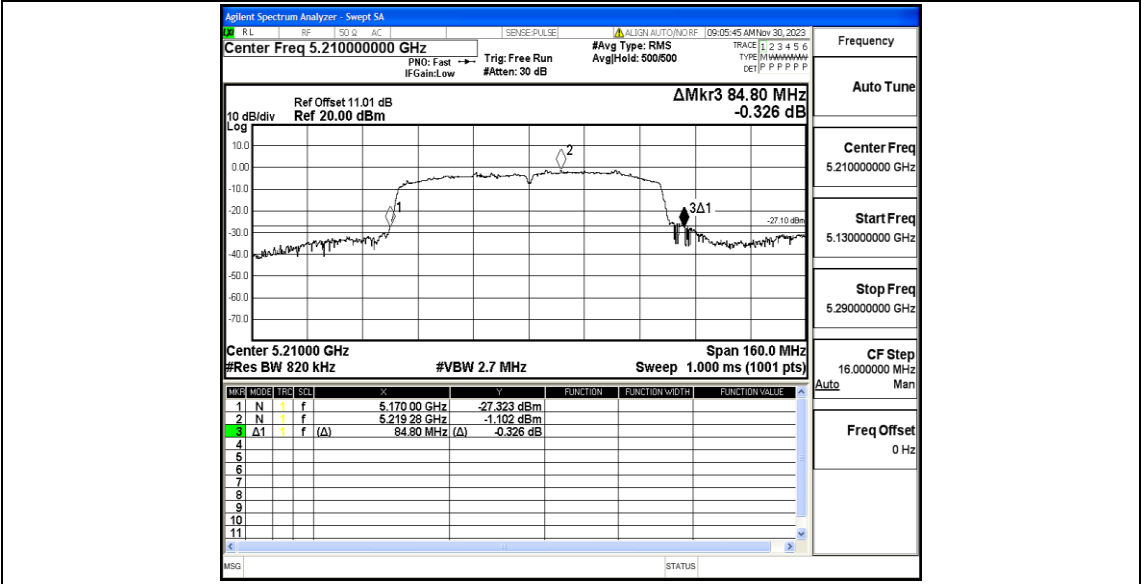
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



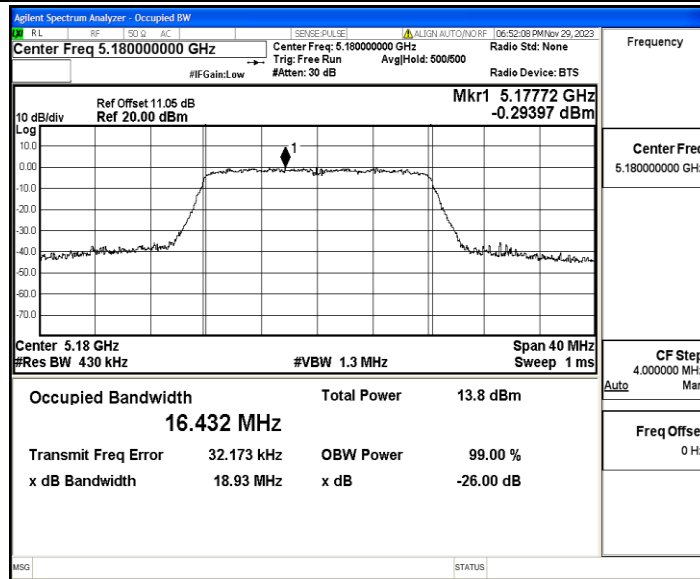
Appendix A2: Occupied channel bandwidth

Test Result

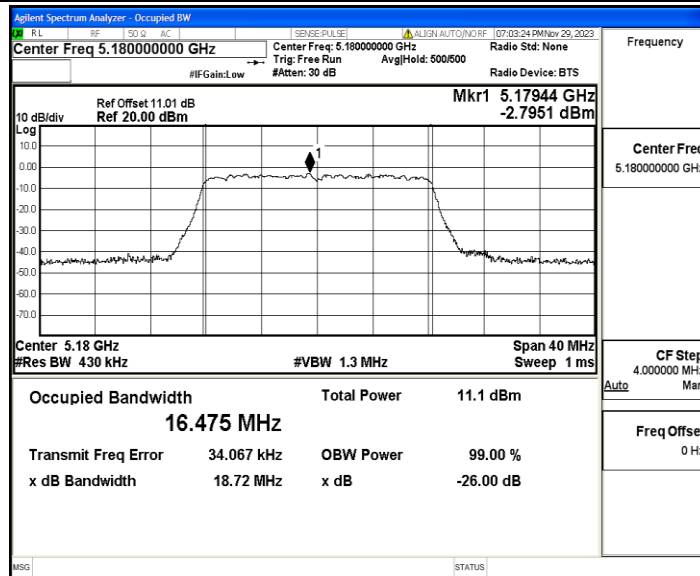
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.432	5171.8162	5188.2482	---	---
	Ant2	5180	16.475	5171.7966	5188.2716	---	---
	Ant1	5200	16.572	5191.7215	5208.2935	---	---
	Ant2	5200	16.514	5191.7888	5208.3028	---	---
	Ant1	5240	16.543	5231.7205	5248.2635	---	---
	Ant2	5240	16.496	5231.7782	5248.2742	---	---
11N20MIMO	Ant1	5180	17.732	5171.1359	5188.8679	---	---
	Ant2	5180	17.730	5171.1602	5188.8902	---	---
	Ant1	5200	17.774	5191.1349	5208.9089	---	---
	Ant2	5200	17.790	5191.1455	5208.9355	---	---
	Ant1	5240	17.732	5231.1523	5248.8843	---	---
	Ant2	5240	17.742	5231.1558	5248.8978	---	---
11N40MIMO	Ant1	5190	36.365	5171.8262	5208.1912	---	---
	Ant2	5190	36.633	5171.7626	5208.3956	---	---
	Ant1	5230	36.272	5211.8730	5248.1450	---	---
	Ant2	5230	36.524	5211.8338	5248.3578	---	---
11AC20MIMO	Ant1	5180	17.595	5171.2486	5188.8436	---	---
	Ant2	5180	17.659	5171.2316	5188.8906	---	---
	Ant1	5200	17.659	5191.2304	5208.8894	---	---
	Ant2	5200	17.826	5191.1889	5209.0149	---	---
	Ant1	5240	17.618	5231.2305	5248.8485	---	---
	Ant2	5240	17.969	5231.0868	5249.0558	---	---
11AC40MIMO	Ant1	5190	36.457	5171.7646	5208.2216	---	---
	Ant2	5190	36.498	5171.9010	5208.3990	---	---
	Ant1	5230	36.250	5211.9152	5248.1652	---	---
	Ant2	5230	36.477	5211.9293	5248.4063	---	---
11AC80MIMO	Ant1	5210	74.580	5172.8178	5247.3978	---	---
	Ant2	5210	74.688	5173.1521	5247.8401	---	---

Test Graphs

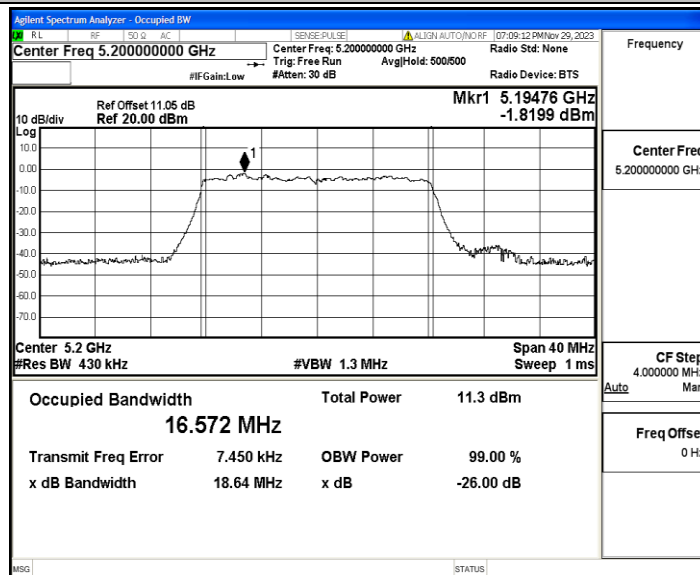
11A_Ant1_5180



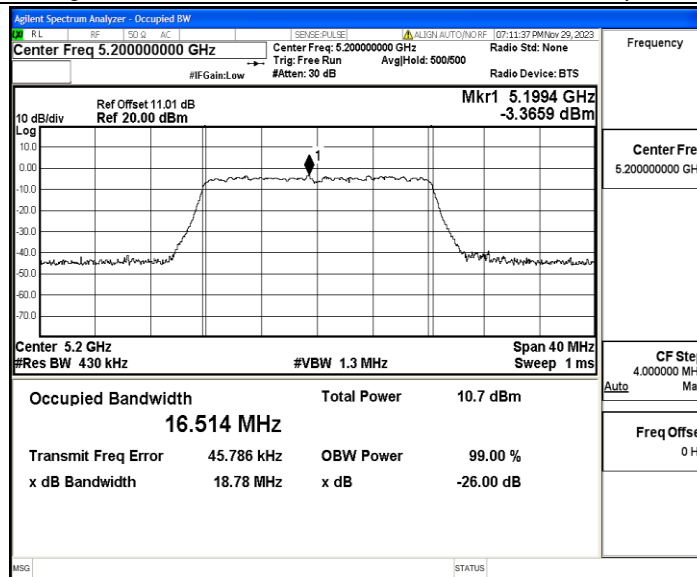
11A_Ant2_5180



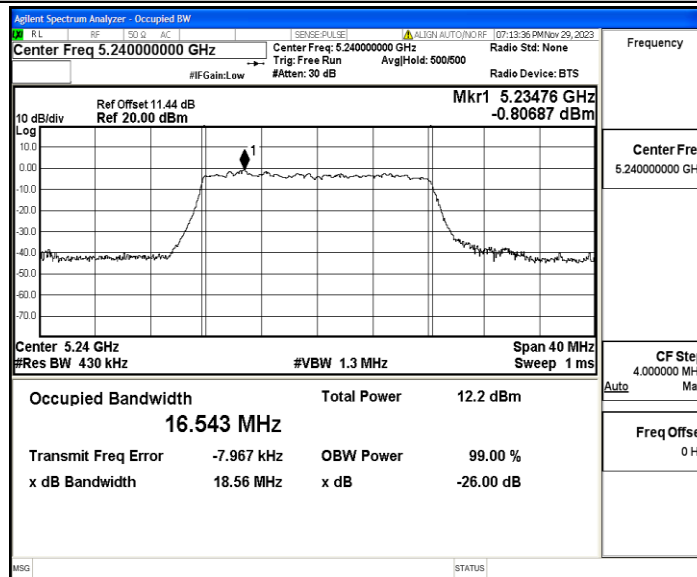
11A_Ant1_5200



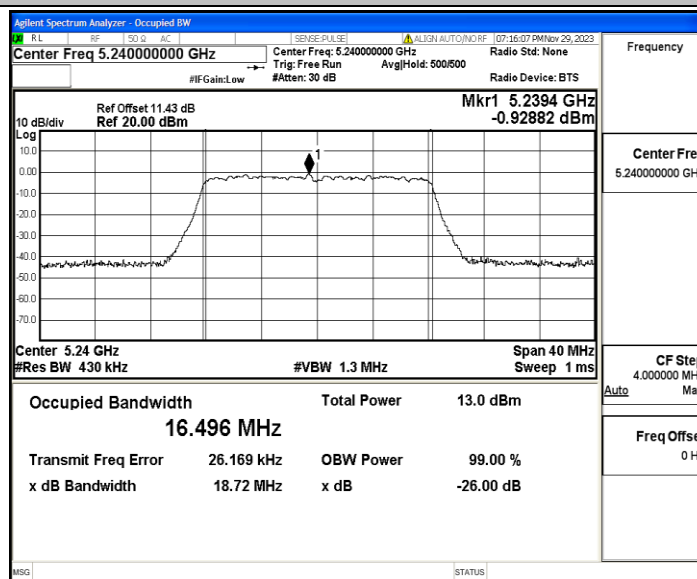
11A_Ant2_5200



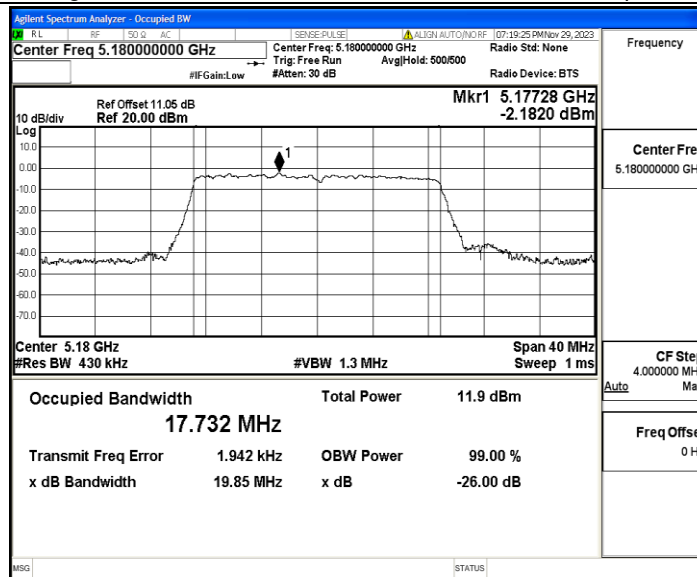
11A_Ant1_5240



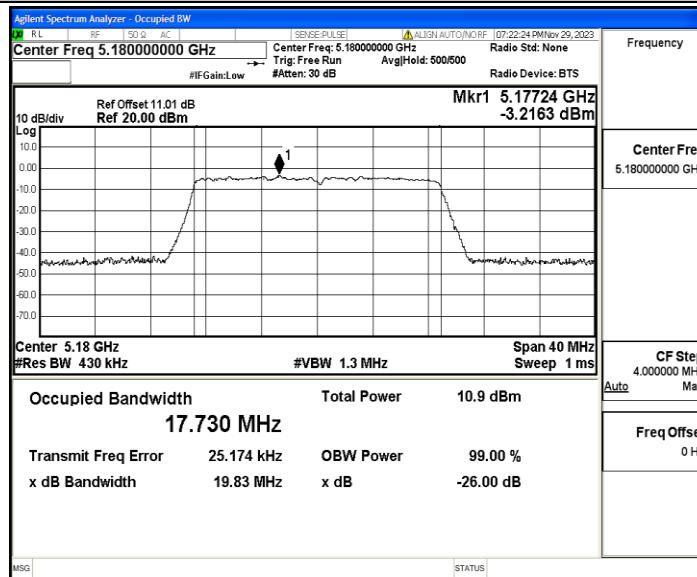
11A_Ant2_5240



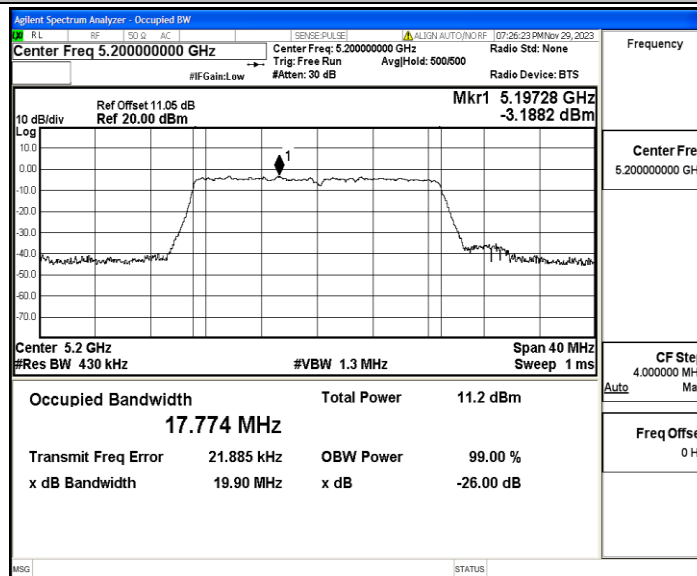
11N20MIMO_Ant1_5180



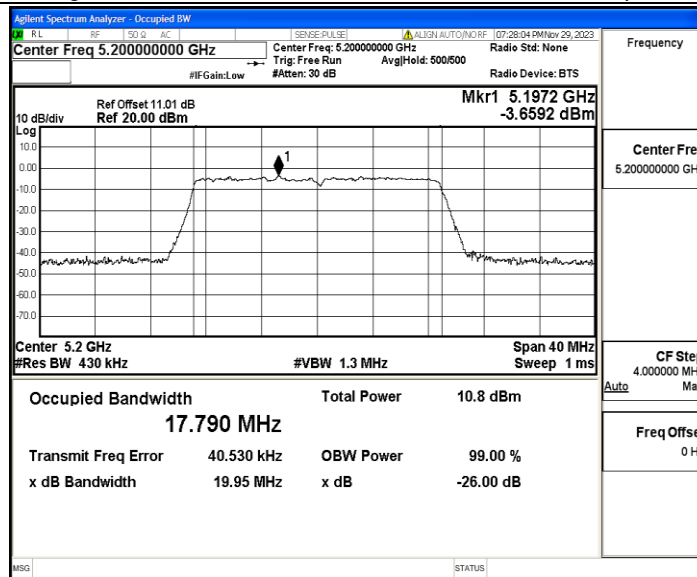
11N20MIMO_Ant2_5180



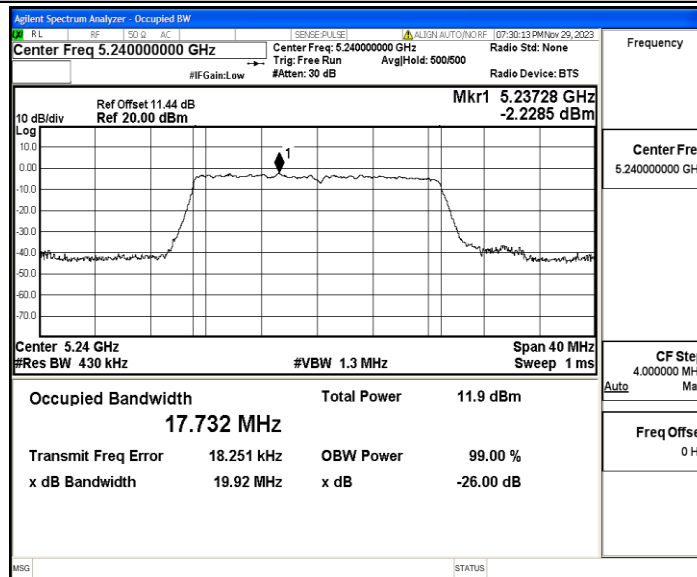
11N20MIMO_Ant1_5200



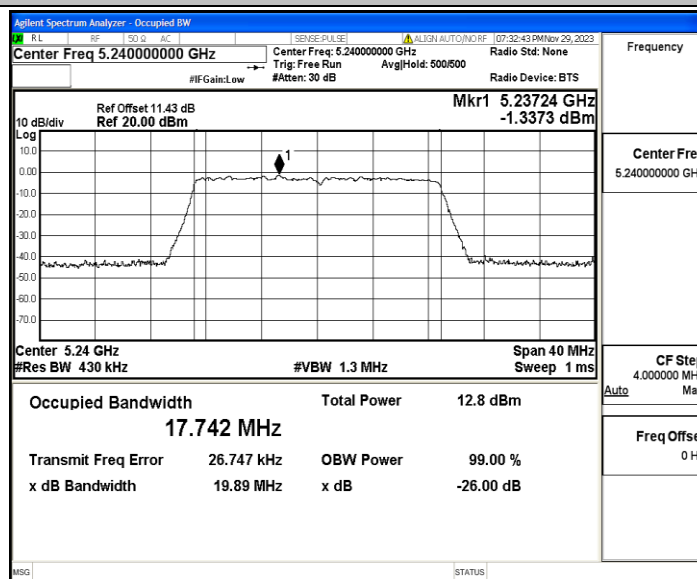
11N20MIMO_Ant2_5200



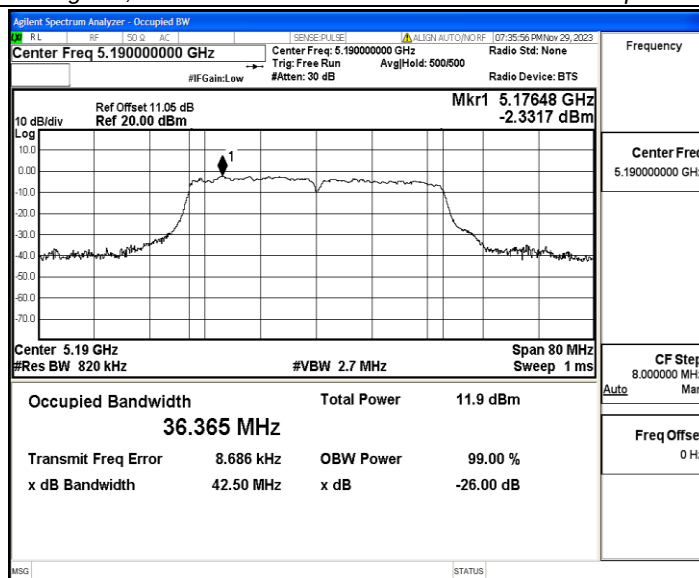
11N20MIMO_Ant1_5240



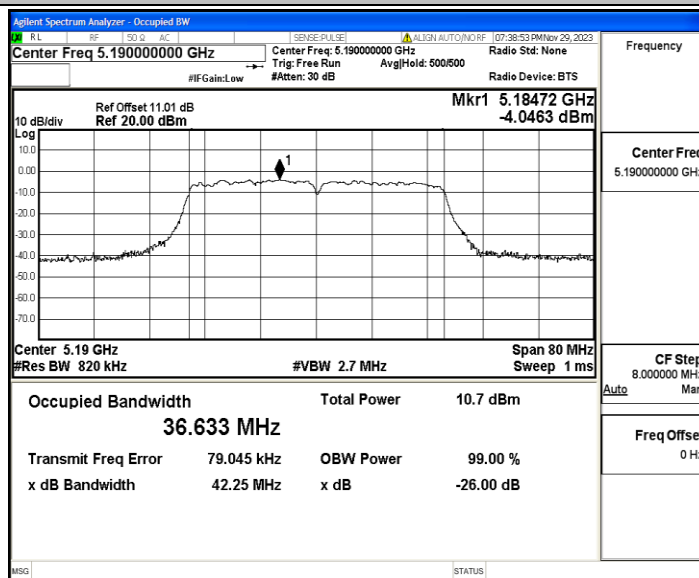
11N20MIMO_Ant2_5240



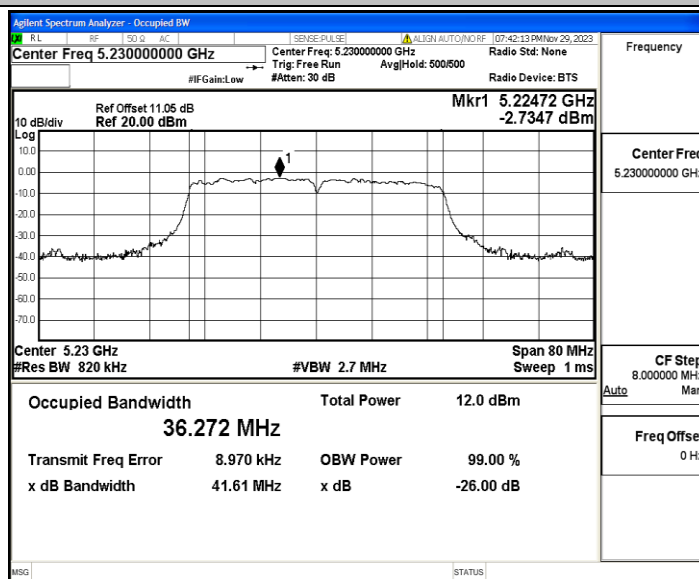
11N40MIMO_Ant1_5190



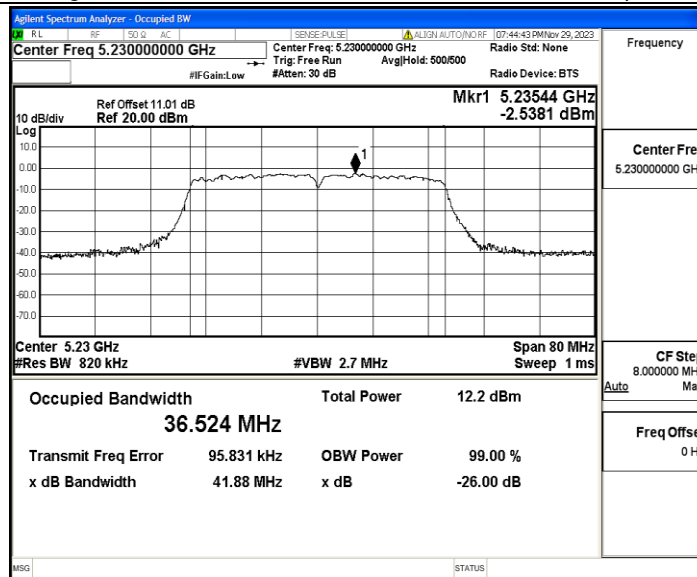
11N40MIMO_Ant2_5190



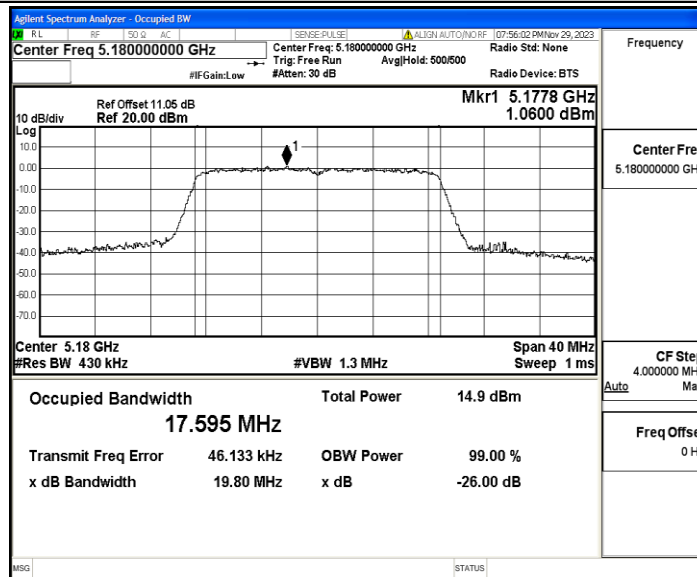
11N40MIMO_Ant1_5230



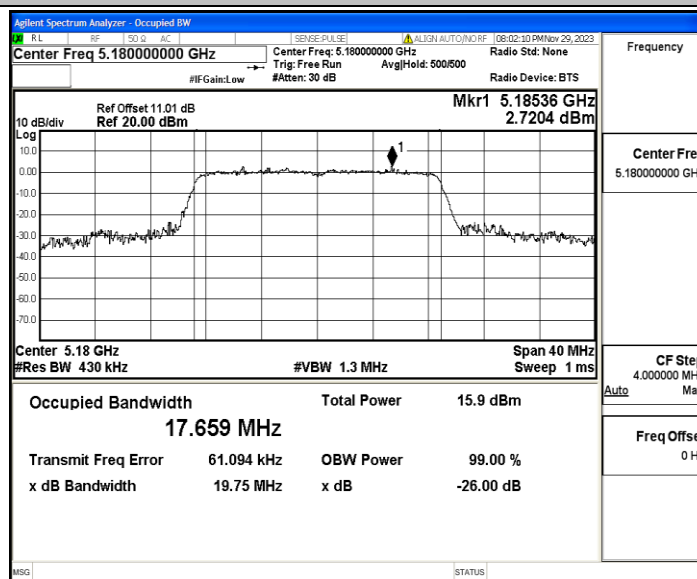
11N40MIMO_Ant2_5230



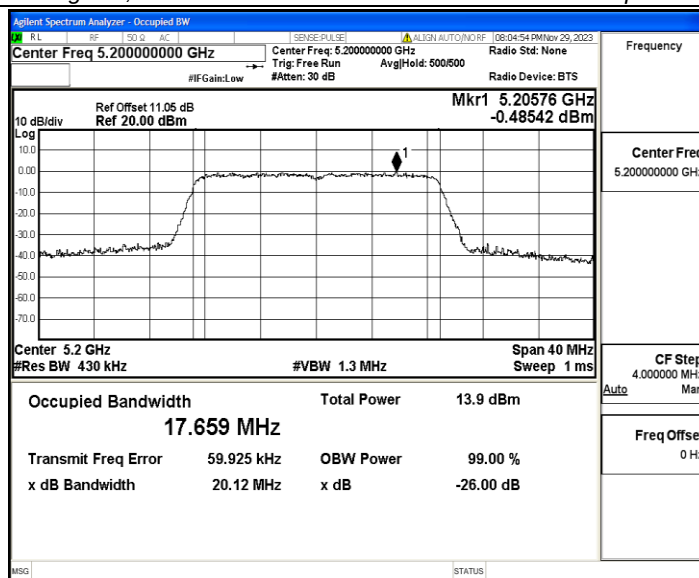
11AC20MIMO_Ant1_5180



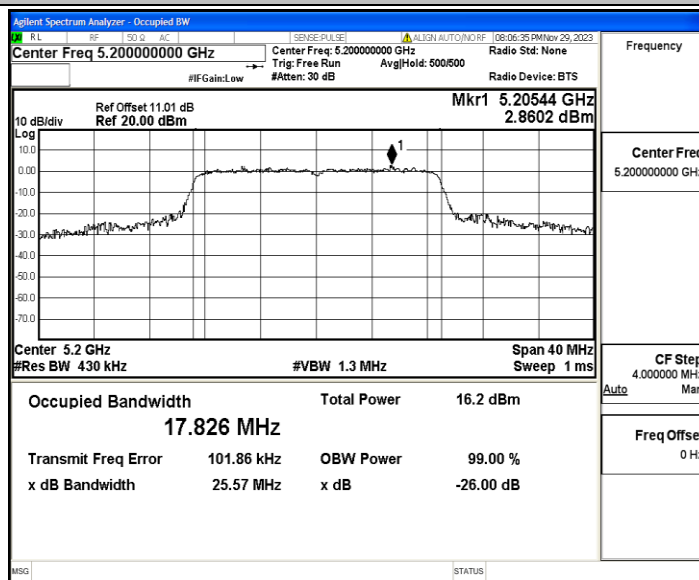
11AC20MIMO_Ant2_5180



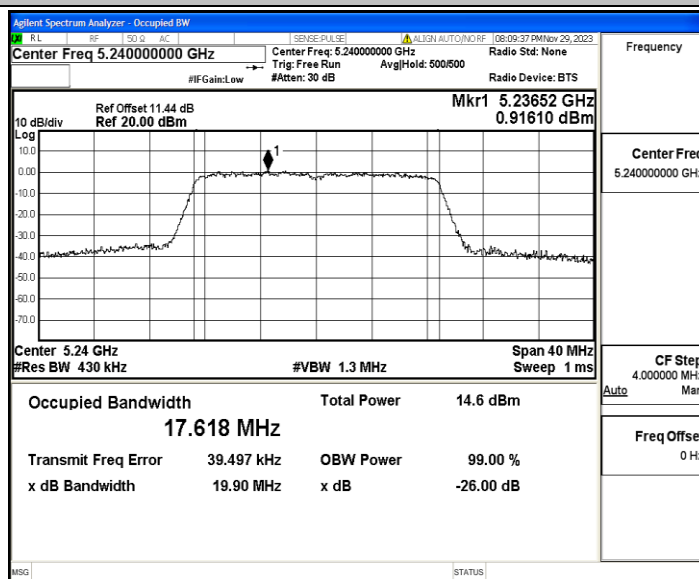
11AC20MIMO_Ant1_5200



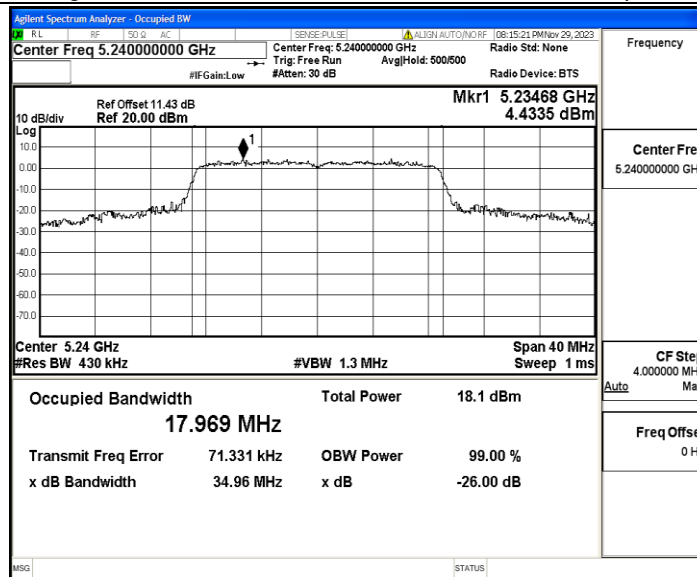
11AC20MIMO_Ant2_5200



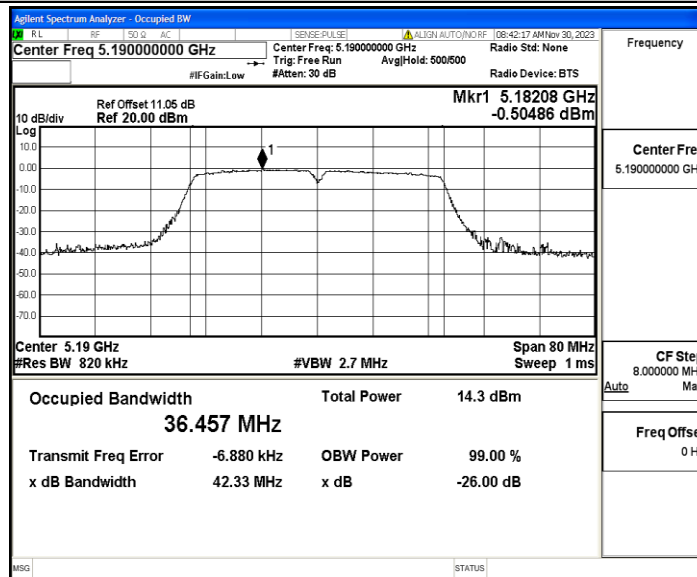
11AC20MIMO_Ant1_5240



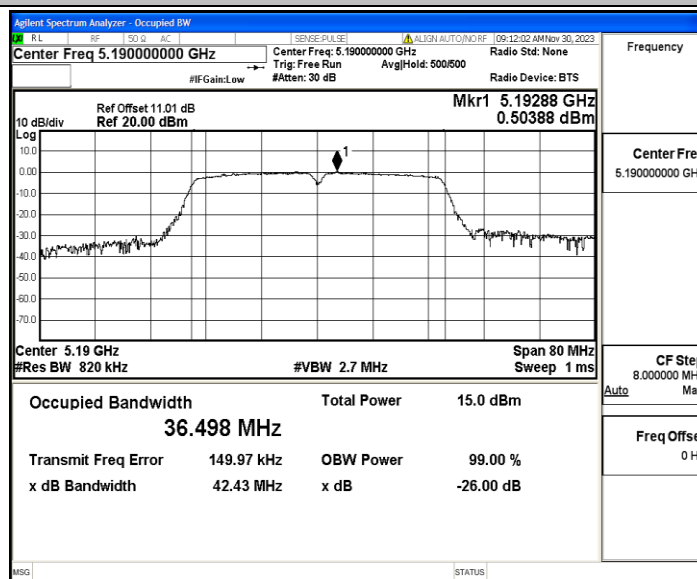
11AC20MIMO_Ant2_5240



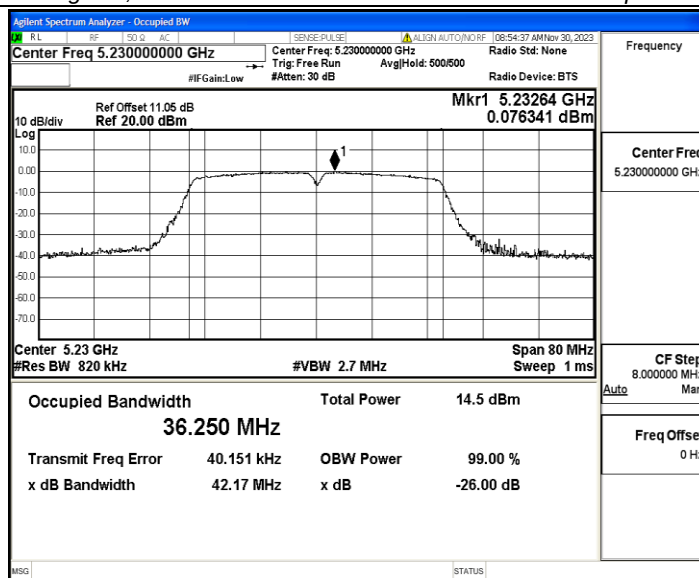
11AC40MIMO_Ant1_5190



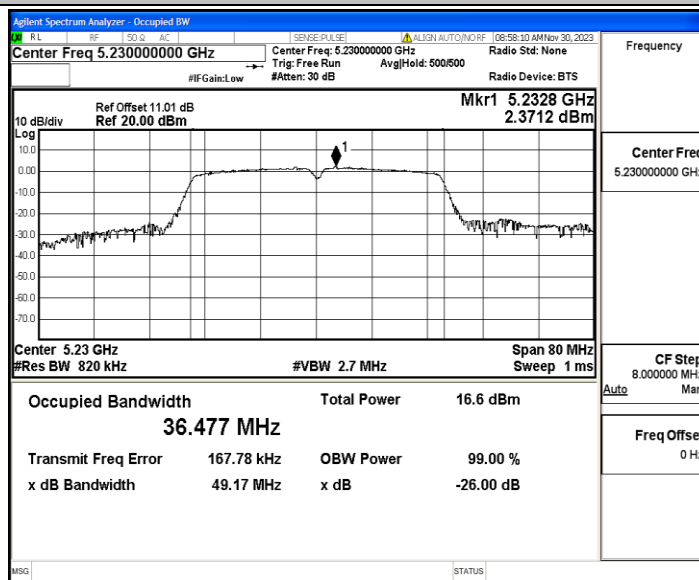
11AC40MIMO_Ant2_5190



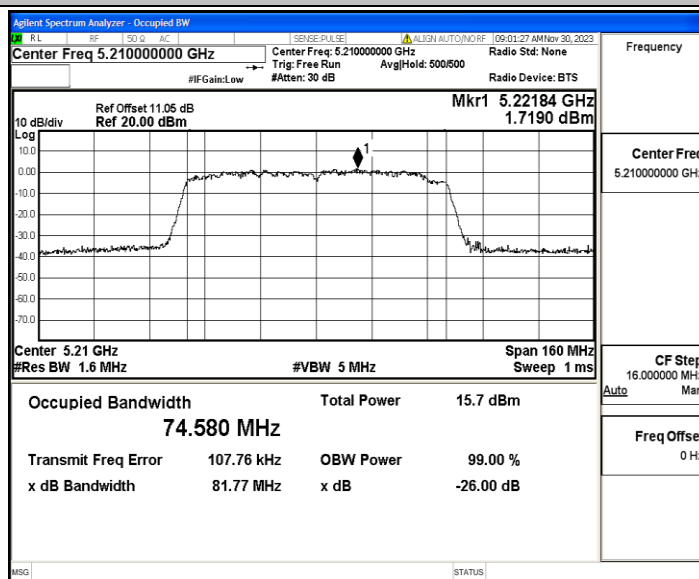
11AC40MIMO_Ant1_5230



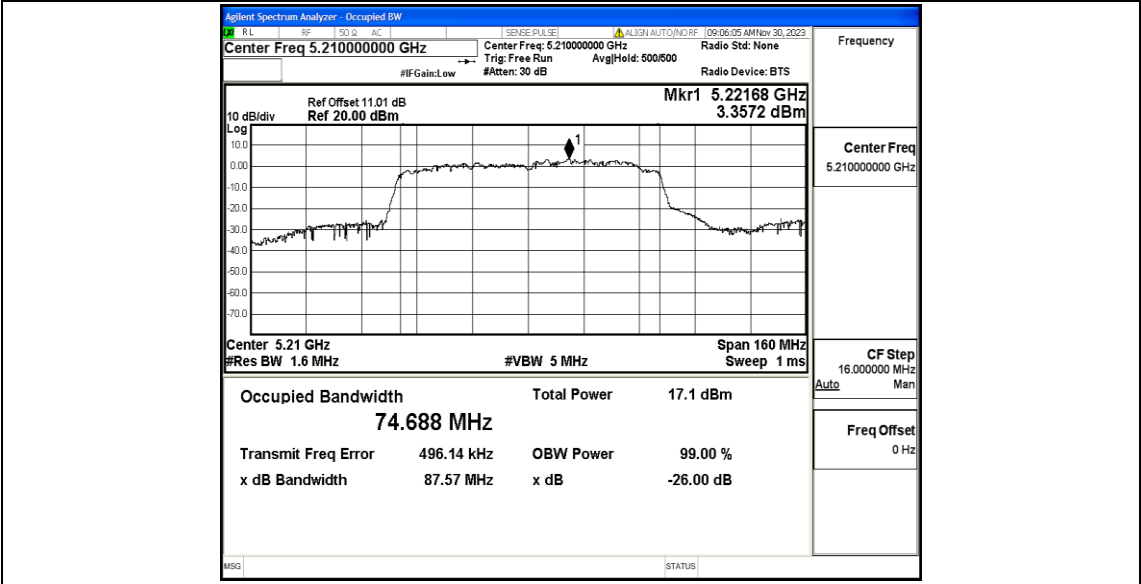
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



Appendix B: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	7.14	≤23.98	PASS
	Ant2	5180	4.29	≤23.98	PASS
	Ant1	5200	4.58	≤23.98	PASS
	Ant2	5200	3.86	≤23.98	PASS
	Ant1	5240	5.09	≤23.98	PASS
	Ant2	5240	6.18	≤23.98	PASS
11N20MIMO	Ant1	5180	5.28	≤23.98	PASS
	Ant2	5180	4.16	≤23.98	PASS
	total	5180	7.77	≤23.98	PASS
	Ant1	5200	4.62	≤23.98	PASS
	Ant2	5200	4.20	≤23.98	PASS
	total	5200	7.43	≤23.98	PASS
	Ant1	5240	5.23	≤23.98	PASS
	Ant2	5240	6.05	≤23.98	PASS
	total	5240	8.67	≤23.98	PASS
11N40MIMO	Ant1	5190	4.56	≤23.98	PASS
	Ant2	5190	3.36	≤23.98	PASS
	total	5190	7.01	≤23.98	PASS
	Ant1	5230	4.83	≤23.98	PASS
	Ant2	5230	5.22	≤23.98	PASS
	total	5230	8.04	≤23.98	PASS
11AC20MIMO	Ant1	5180	8.19	≤23.98	PASS
	Ant2	5180	9.50	≤23.98	PASS
	total	5180	11.90	≤23.98	PASS
	Ant1	5200	7.47	≤23.98	PASS
	Ant2	5200	9.38	≤23.98	PASS
	total	5200	11.54	≤23.98	PASS
	Ant1	5240	8.06	≤23.98	PASS
	Ant2	5240	11.40	≤23.98	PASS
	total	5240	13.05	≤23.98	PASS
11AC40MIMO	Ant1	5190	6.93	≤23.98	PASS
	Ant2	5190	7.97	≤23.98	PASS
	total	5190	10.49	≤23.98	PASS
	Ant1	5230	7.51	≤23.98	PASS
	Ant2	5230	9.49	≤23.98	PASS
	total	5230	11.62	≤23.98	PASS
11AC80MIMO	Ant1	5210	7.06	≤23.98	PASS
	Ant2	5210	8.22	≤23.98	PASS
	total	5210	10.69	≤23.98	PASS

Note: The Duty Cycle Factor is compensated in the test result.

Appendix C: Maximum power spectral density

Test Result

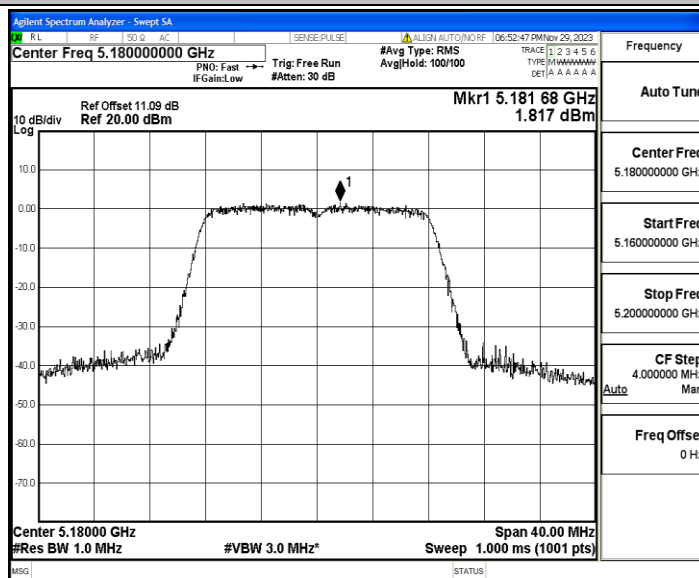
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	1.82	≤11.00	PASS
	Ant2	5180	0.06	≤11.00	PASS
	Ant1	5200	0.17	≤11.00	PASS
	Ant2	5200	-0.69	≤11.00	PASS
	Ant1	5240	0.83	≤11.00	PASS
	Ant2	5240	1.59	≤11.00	PASS
11N20MIMO	Ant1	5180	0.06	≤11.00	PASS
	Ant2	5180	-0.84	≤11.00	PASS
	total	5180	2.64	≤11.00	PASS
	Ant1	5200	-0.44	≤11.00	PASS
	Ant2	5200	-0.69	≤11.00	PASS
	total	5200	2.45	≤11.00	PASS
	Ant1	5240	0.17	≤11.00	PASS
	Ant2	5240	0.93	≤11.00	PASS
	total	5240	3.58	≤11.00	PASS
11N40MIMO	Ant1	5190	-3.23	≤11.00	PASS
	Ant2	5190	-4.4	≤11.00	PASS
	total	5190	-0.77	≤11.00	PASS
	Ant1	5230	-2.94	≤11.00	PASS
	Ant2	5230	-2.32	≤11.00	PASS
	total	5230	0.39	≤11.00	PASS
11AC20MIMO	Ant1	5180	2.81	≤11.00	PASS
	Ant2	5180	3.73	≤11.00	PASS
	total	5180	6.30	≤11.00	PASS
	Ant1	5200	1.4	≤11.00	PASS
	Ant2	5200	4.71	≤11.00	PASS
	total	5200	6.37	≤11.00	PASS
	Ant1	5240	2.08	≤11.00	PASS
	Ant2	5240	6.13	≤11.00	PASS
	total	5240	7.57	≤11.00	PASS
11AC40MIMO	Ant1	5190	-1.94	≤11.00	PASS
	Ant2	5190	-0.93	≤11.00	PASS
	total	5190	1.60	≤11.00	PASS
	Ant1	5230	-1.1	≤11.00	PASS
	Ant2	5230	0.88	≤11.00	PASS
	total	5230	3.01	≤11.00	PASS
11AC80MIMO	Ant1	5210	-4.14	≤11.00	PASS
	Ant2	5210	-2.38	≤11.00	PASS
	total	5210	-0.16	≤11.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

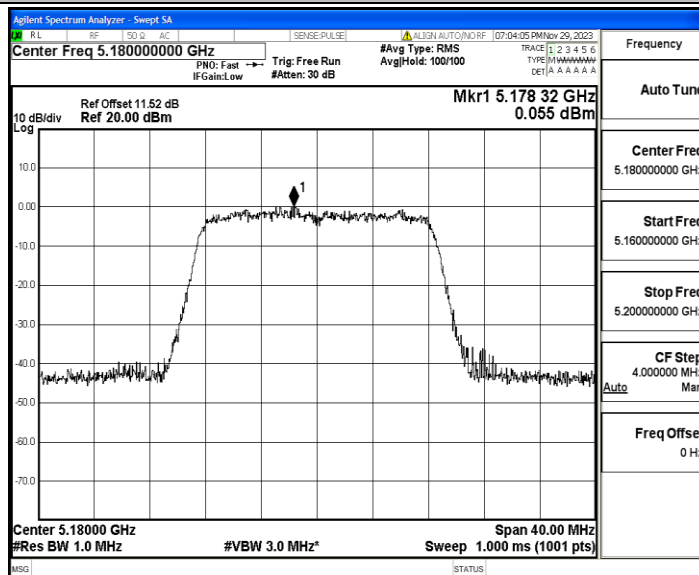
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

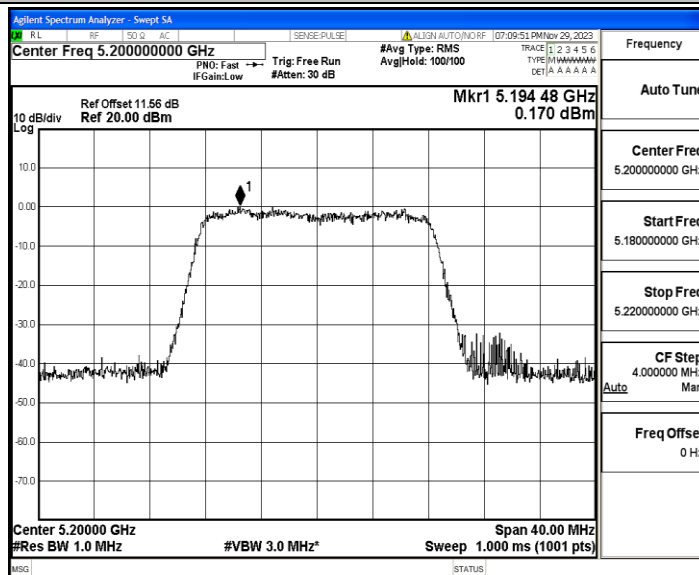
11A_Ant1_5180



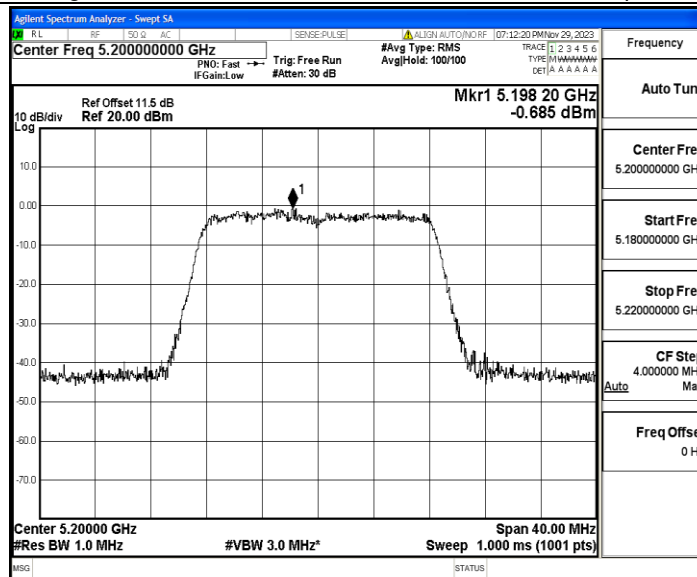
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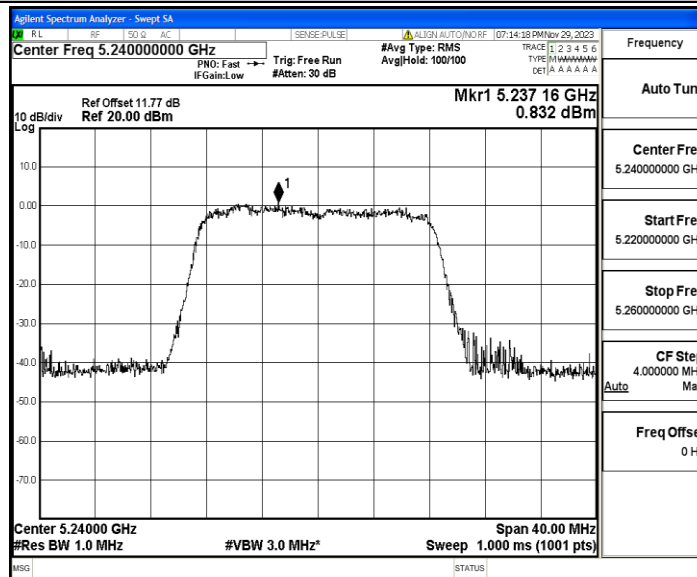
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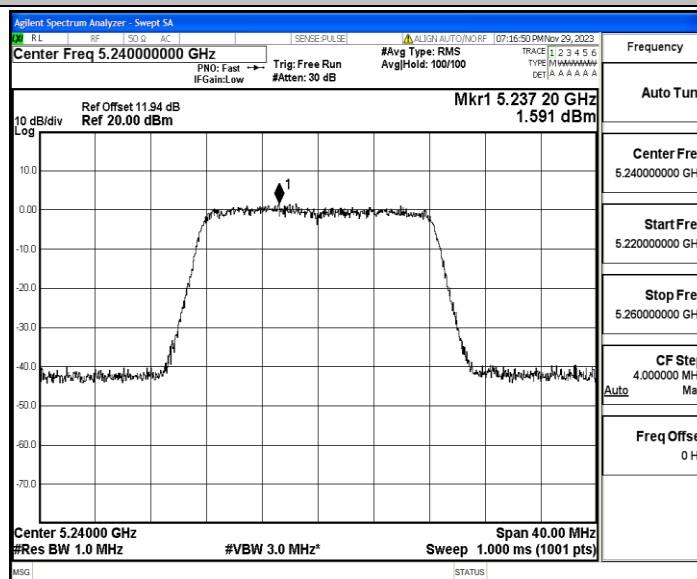
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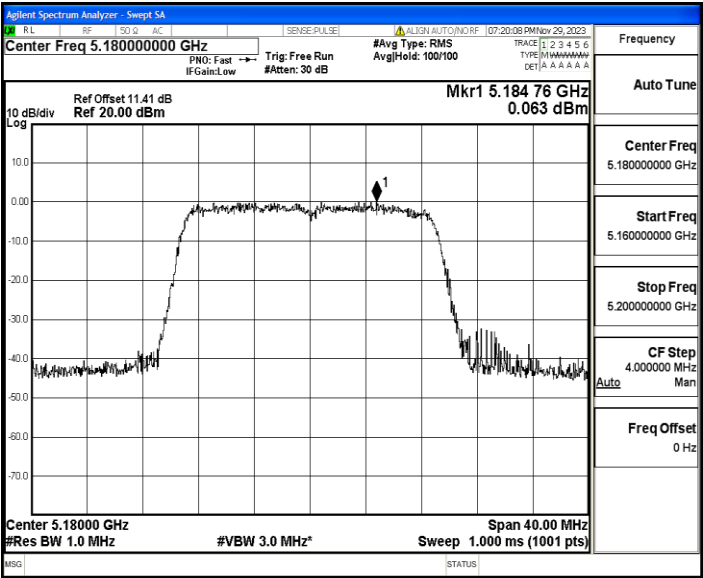
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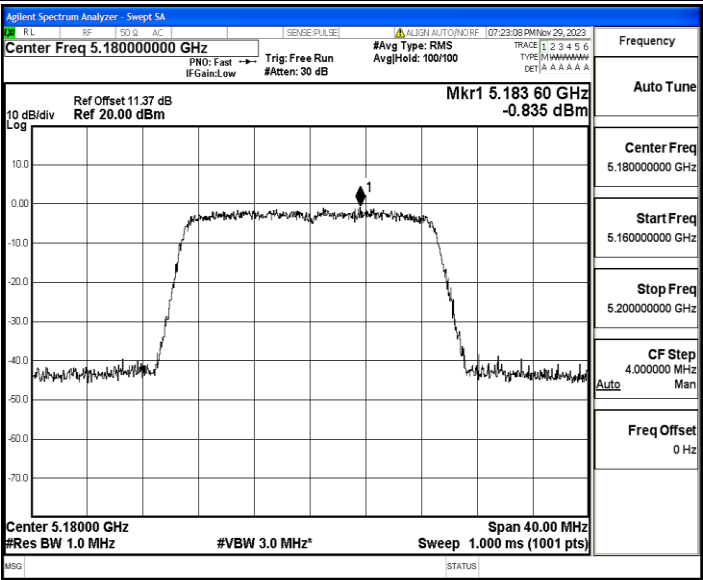
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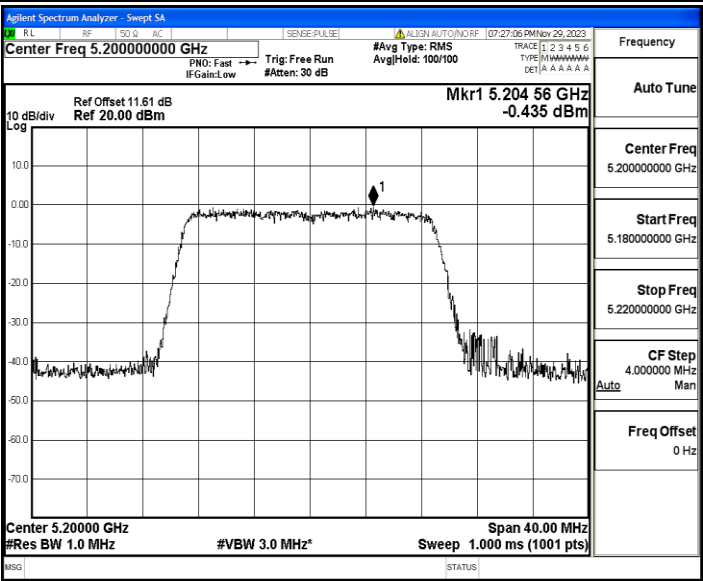
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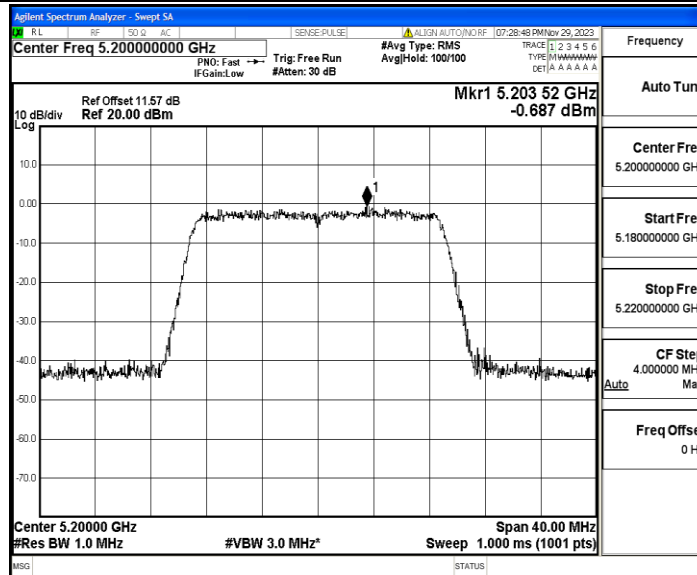
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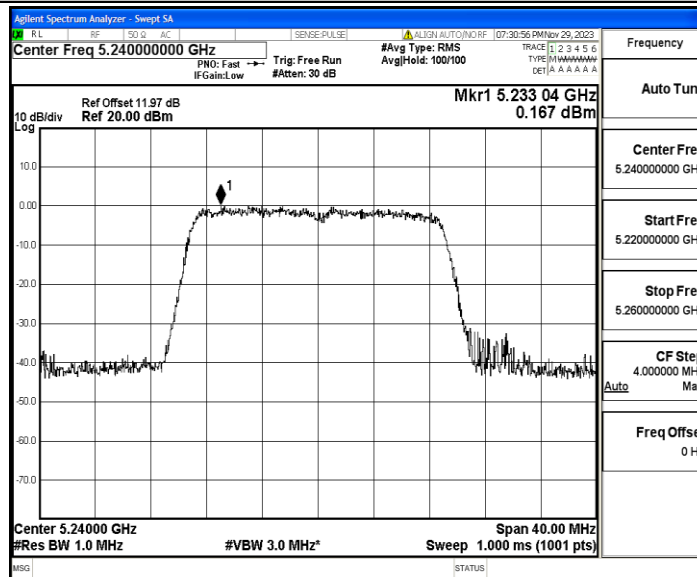
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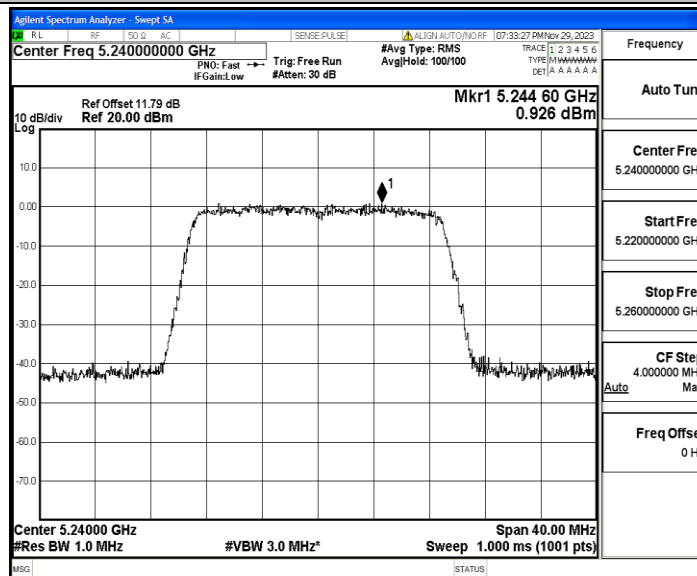
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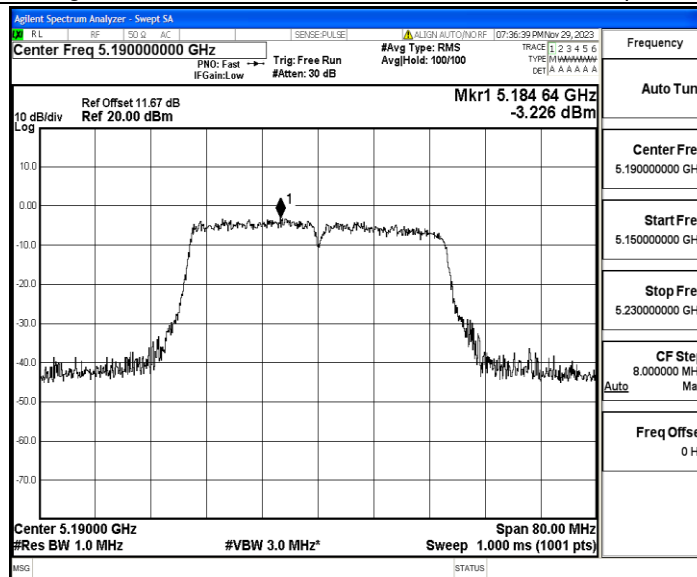
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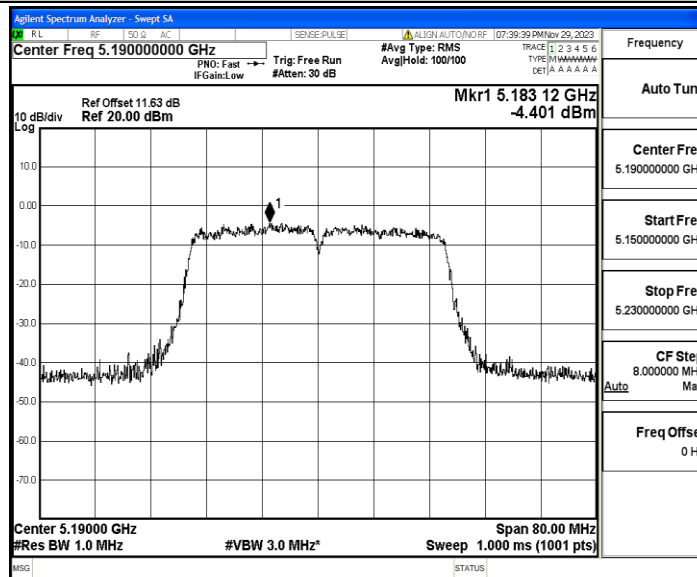
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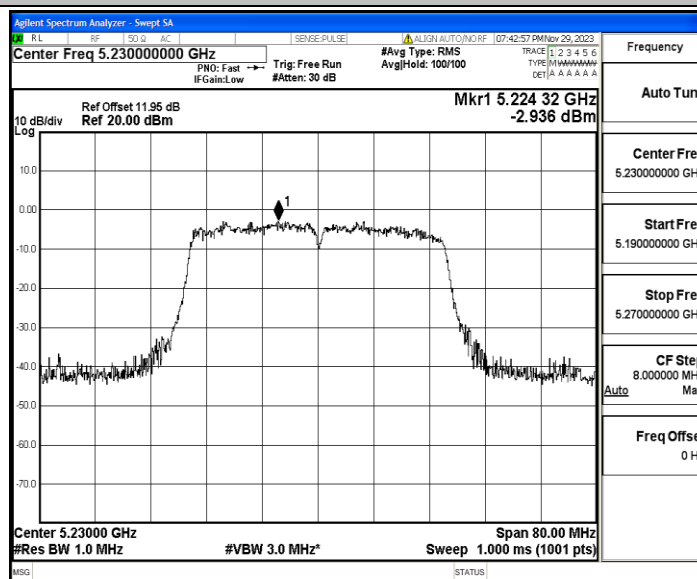
11N40MIMO_Ant1_5190



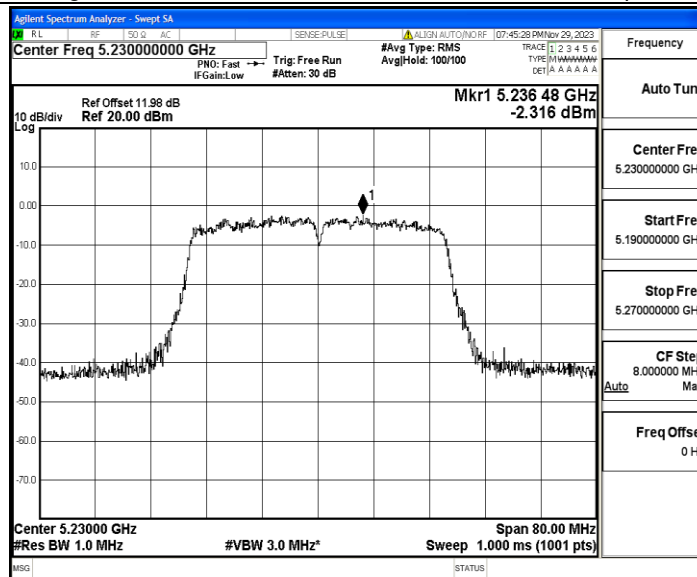
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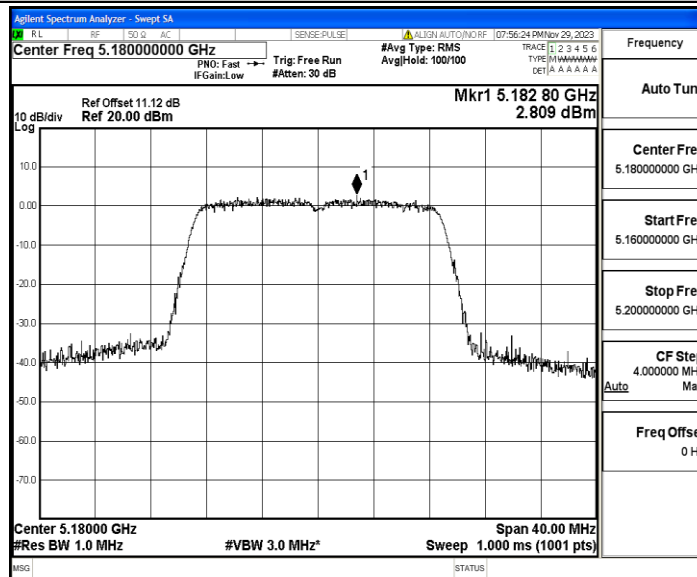
11N40MIMO_Ant1_5230



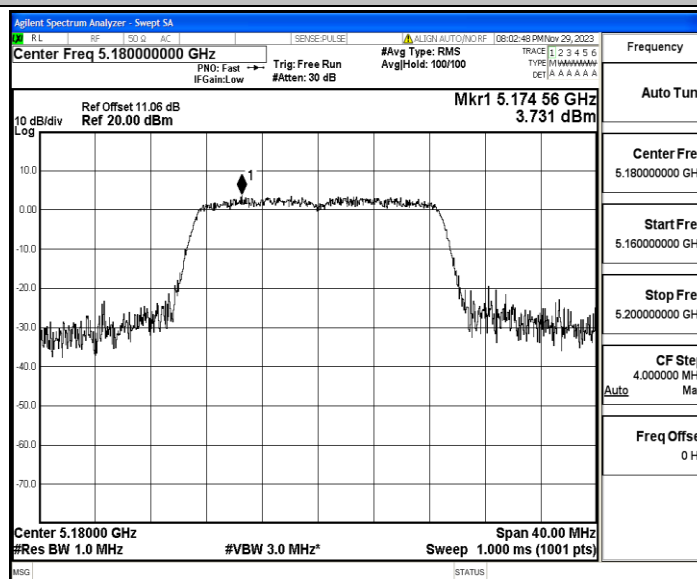
11N40MIMO_Ant2_5230



11AC20MIMO_Ant1_5180



11AC20MIMO_Ant2_5180



11AC20MIMO_Ant1_5200