

RF Test Data for RLAN(5.2G) (Conducted Measurement)**Product Name: NucBox7****Trade Mark: GMKtec****Test Model: KB7****FCC ID: 2AXUD-KB7****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

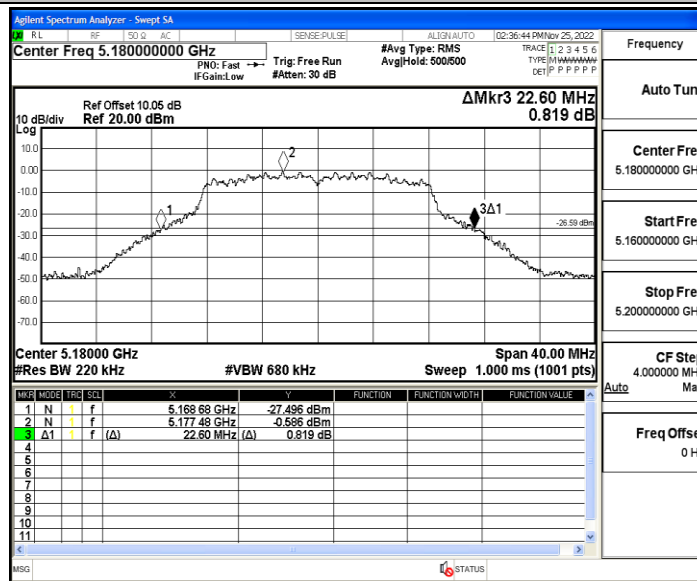
Appendix A1: Emission Bandwidth**Test Result**

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	22.600	5168.680	5191.280	---	---
	Ant2	5180	19.480	5170.280	5189.760	---	---
	Ant1	5200	23.560	5188.080	5211.640	---	---
	Ant2	5200	19.600	5190.280	5209.880	---	---
	Ant1	5240	22.960	5228.480	5251.440	---	---
	Ant2	5240	19.640	5230.000	5249.640	---	---
11N20MIMO	Ant1	5180	20.400	5169.680	5190.080	---	---
	Ant2	5180	20.600	5169.720	5190.320	---	---
	Ant1	5200	20.440	5189.720	5210.160	---	---
	Ant2	5200	20.480	5189.880	5210.360	---	---
	Ant1	5240	20.080	5229.960	5250.040	---	---
	Ant2	5240	20.320	5229.760	5250.080	---	---
11N40MIMO	Ant1	5190	40.000	5170.000	5210.000	---	---
	Ant2	5190	40.160	5170.000	5210.160	---	---
	Ant1	5230	39.600	5210.400	5250.000	---	---
	Ant2	5230	39.680	5210.160	5249.840	---	---
11AC20MIMO	Ant1	5180	20.960	5169.560	5190.520	---	---
	Ant2	5180	21.040	5169.600	5190.640	---	---
	Ant1	5200	21.240	5189.360	5210.600	---	---
	Ant2	5200	21.320	5189.400	5210.720	---	---
	Ant1	5240	21.480	5229.280	5250.760	---	---
	Ant2	5240	21.360	5229.280	5250.640	---	---
11AC40MIMO	Ant1	5190	41.120	5169.360	5210.480	---	---
	Ant2	5190	41.040	5169.840	5210.880	---	---
	Ant1	5230	40.720	5209.600	5250.320	---	---

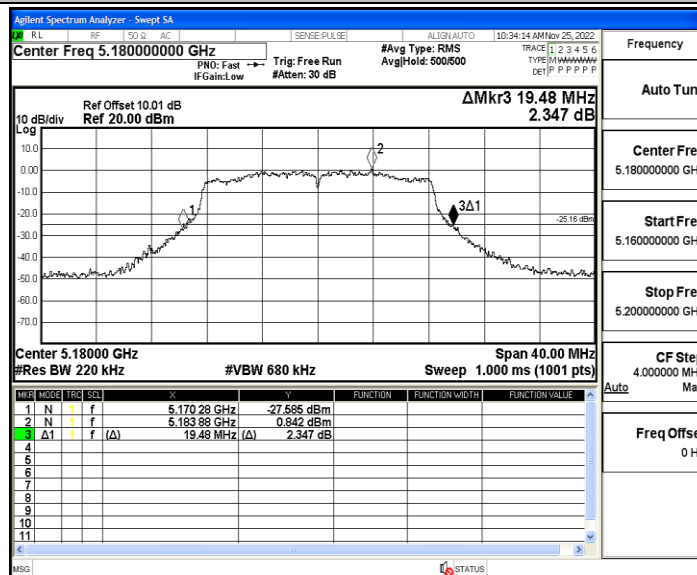
	Ant2	5230	40.960	5209.440	5250.400	---	---
11AC80MIMO	Ant1	5210	83.040	5168.720	5251.760	---	---
	Ant2	5210	83.200	5168.560	5251.760	---	---

Test Graphs

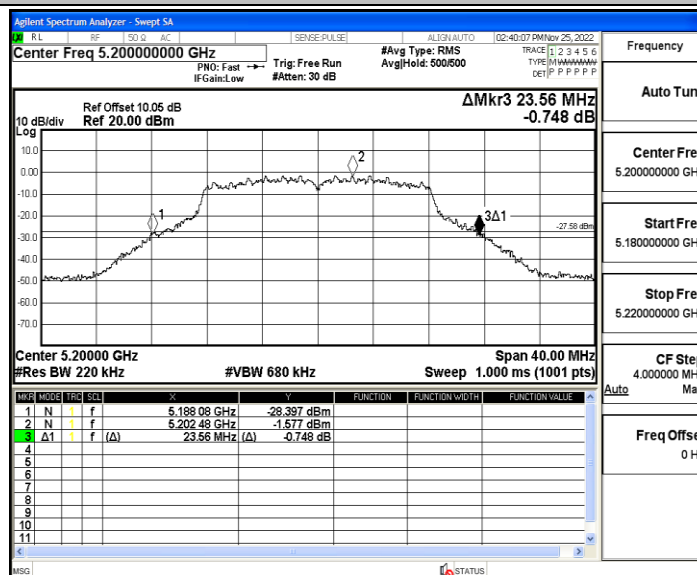
11A_Ant1_5180



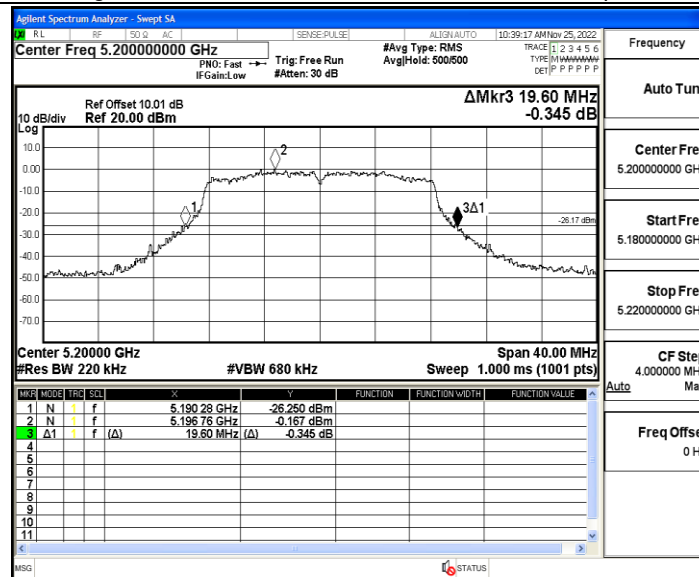
11A_Ant2_5180



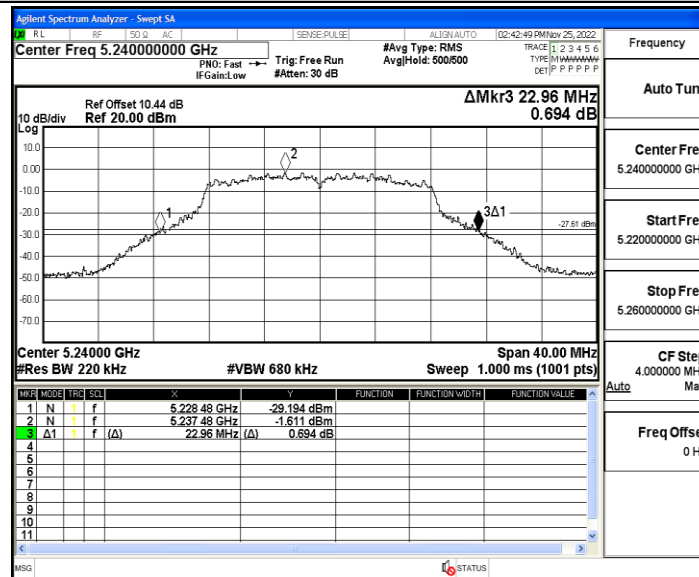
11A_Ant1_5200



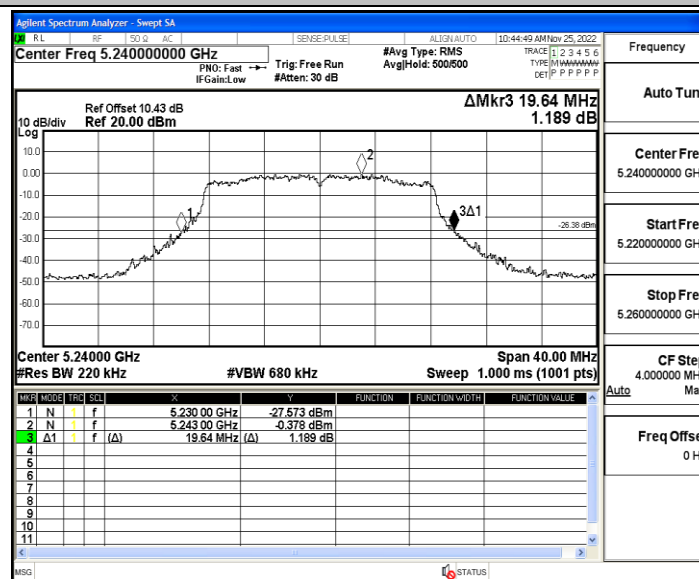
11A_Ant2_5200



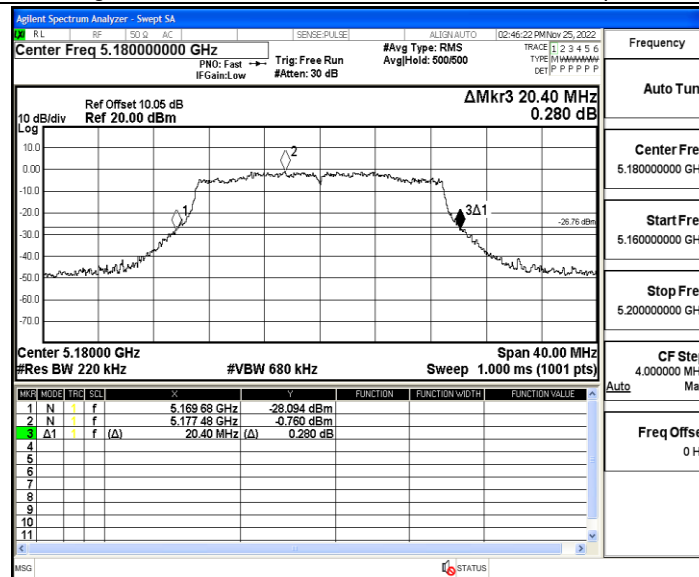
11A_Ant1_5240



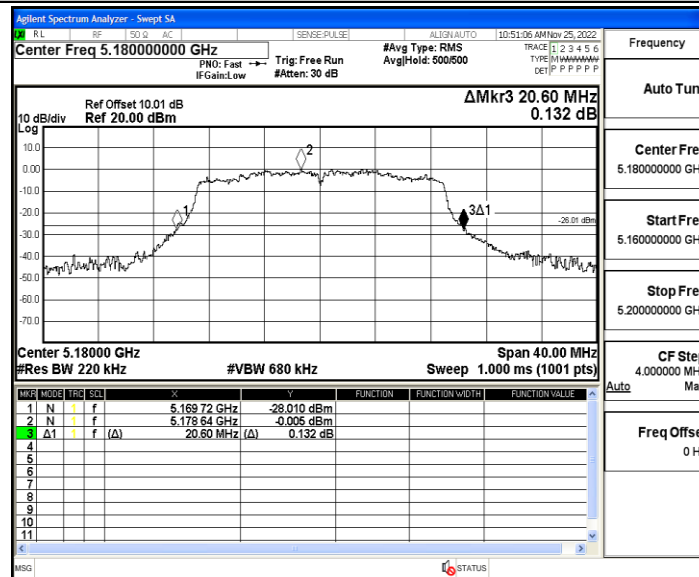
11A_Ant2_5240



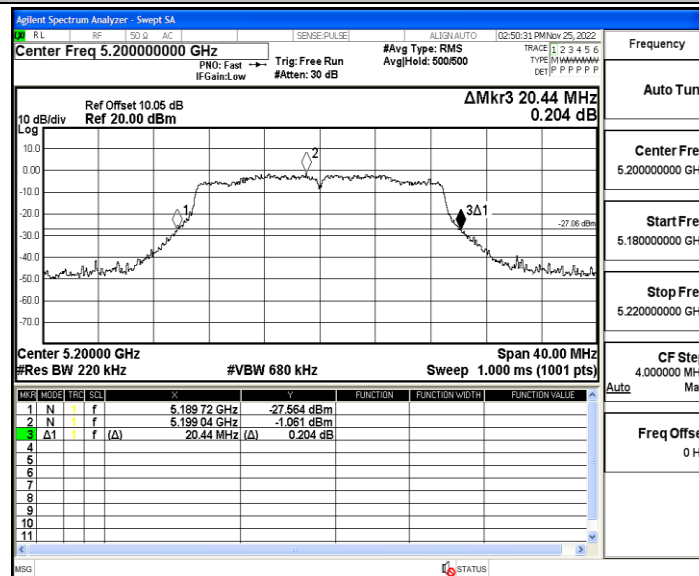
11N20MIMO_Ant1_5180



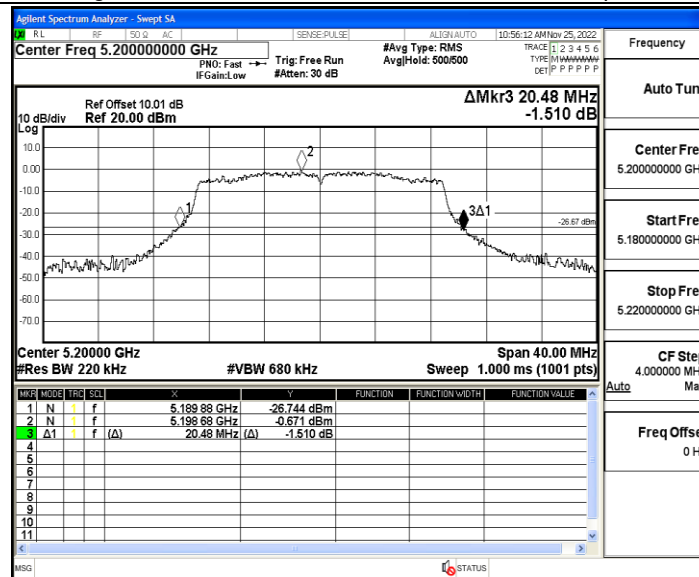
11N20MIMO_Ant2_5180



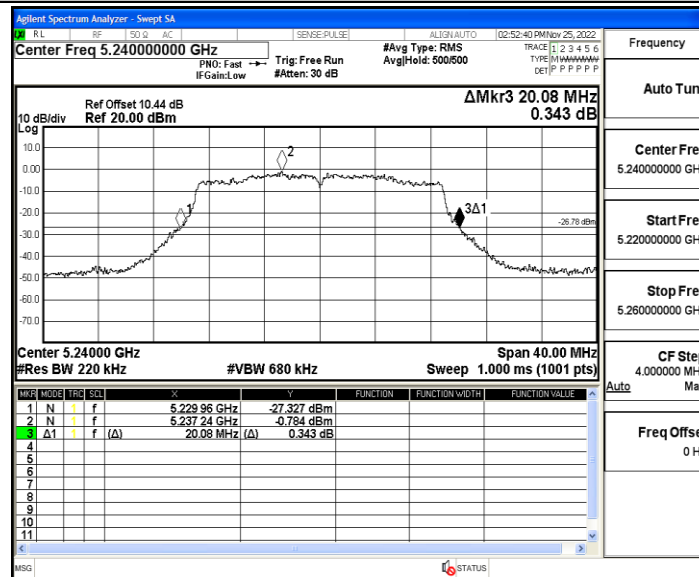
11N20MIMO_Ant1_5200



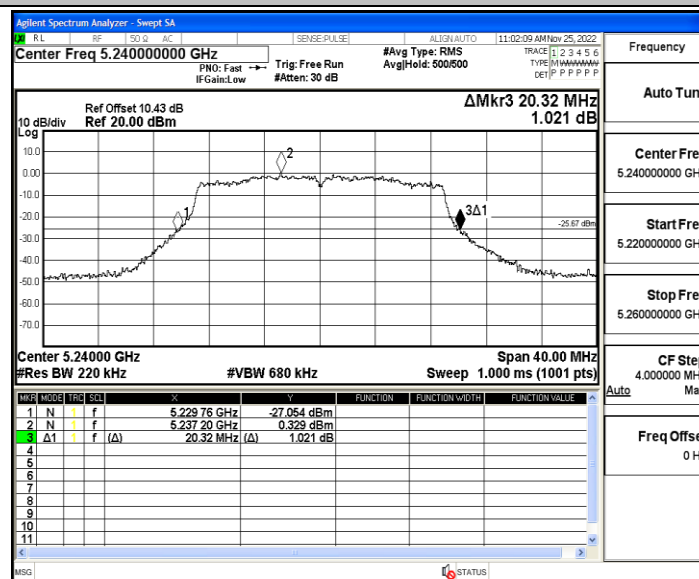
11N20MIMO_Ant2_5200



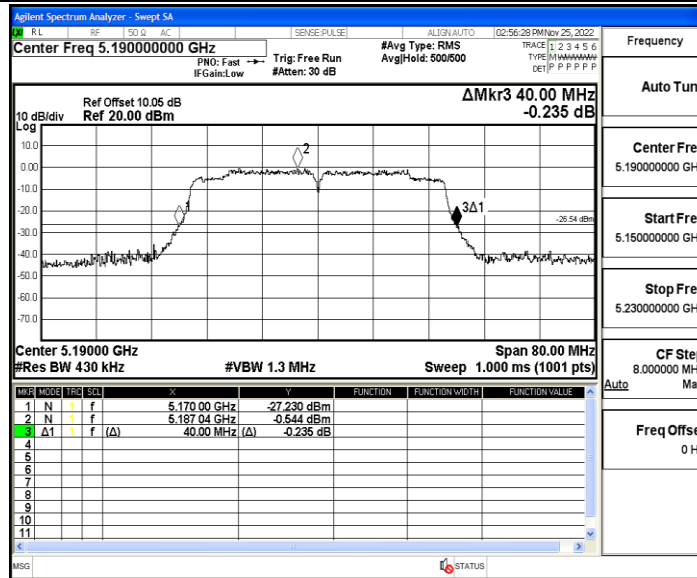
11N20MIMO_Ant1_5240



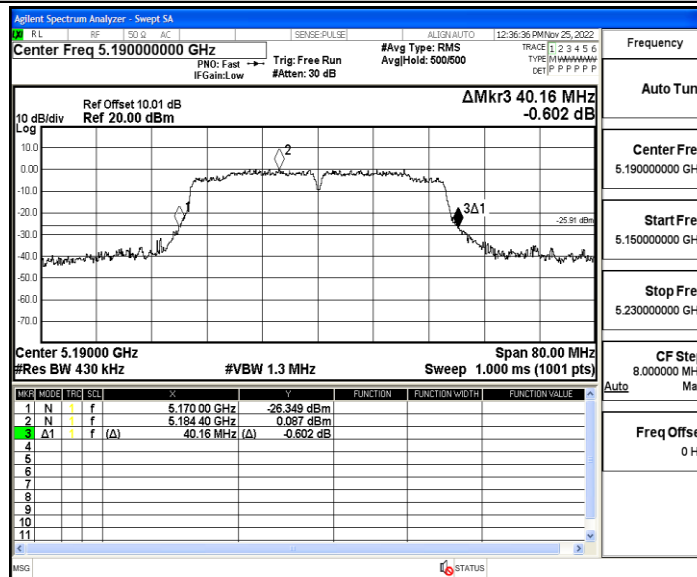
11N20MIMO_Ant2_5240



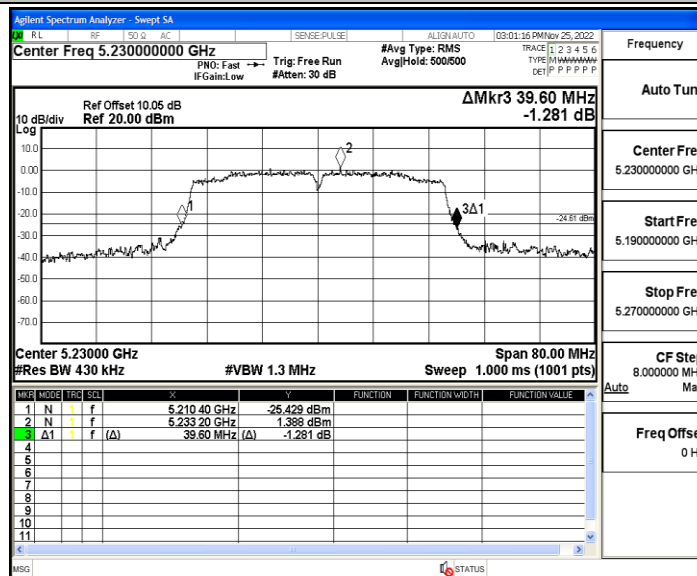
11N40MIMO_Ant1_5190



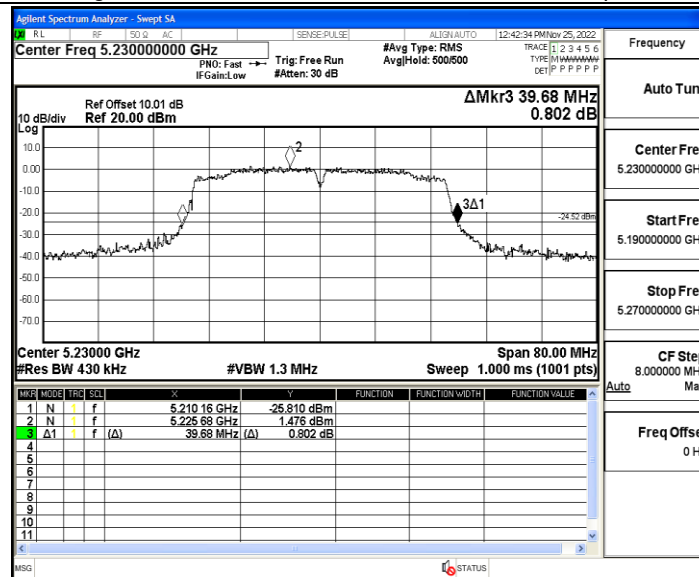
11N40MIMO_Ant2_5190



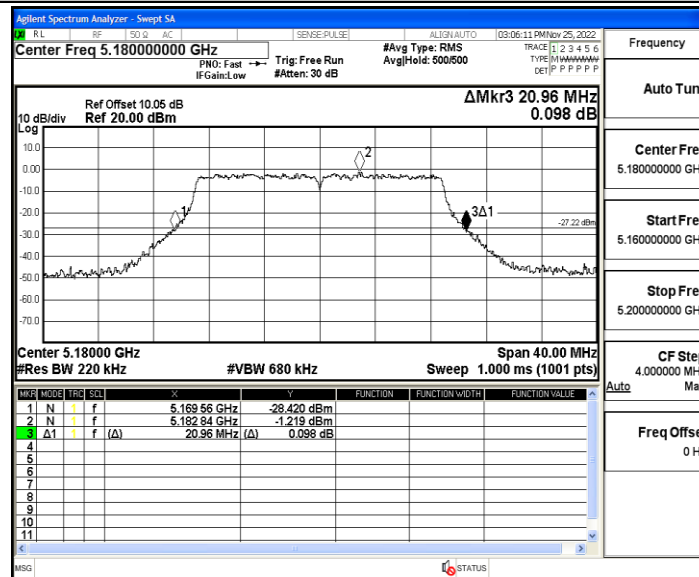
11N40MIMO_Ant1_5230



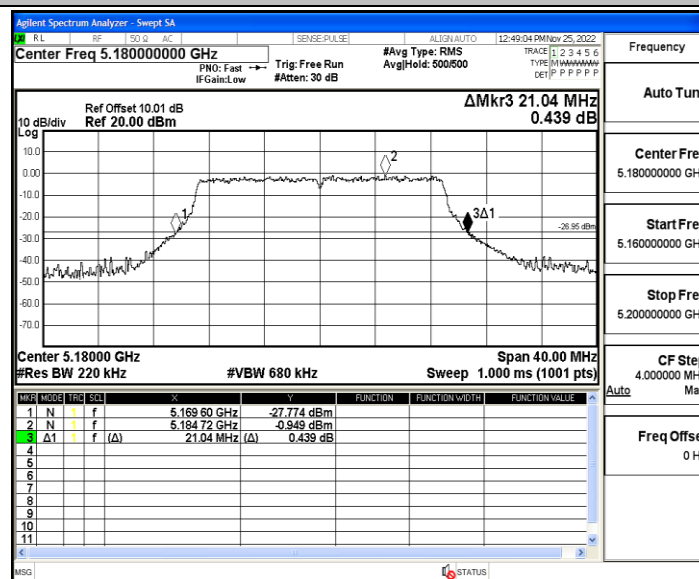
11N40MIMO_Ant2_5230



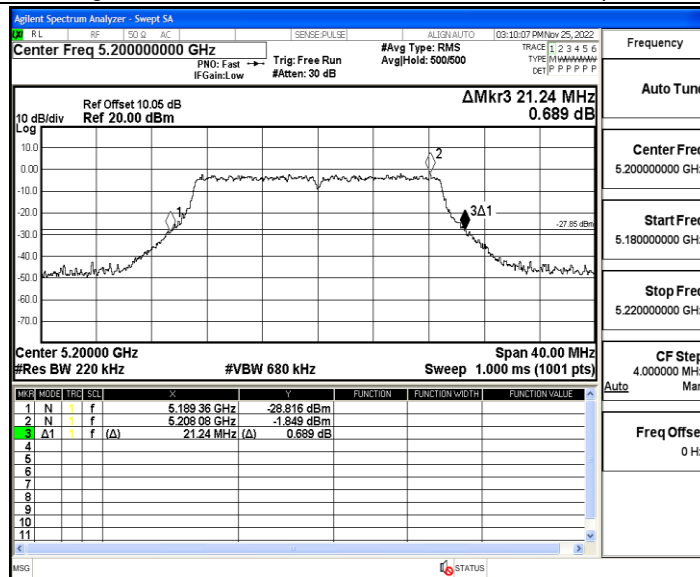
11AC20MIMO_Ant1_5180



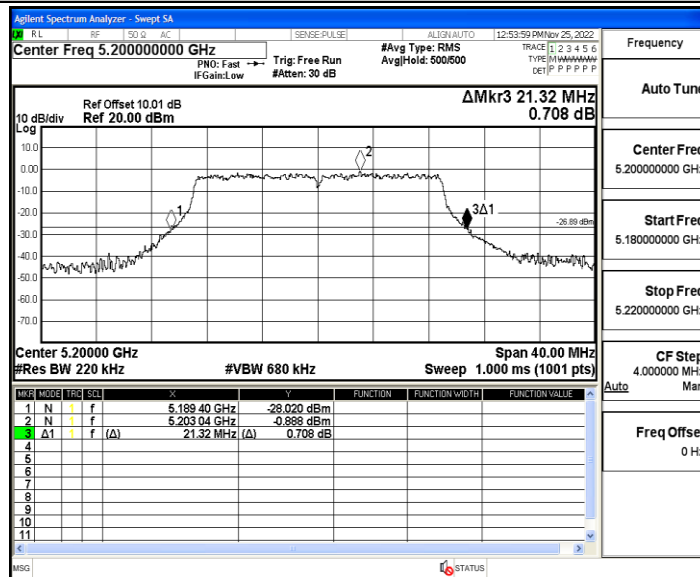
11AC20MIMO_Ant2_5180



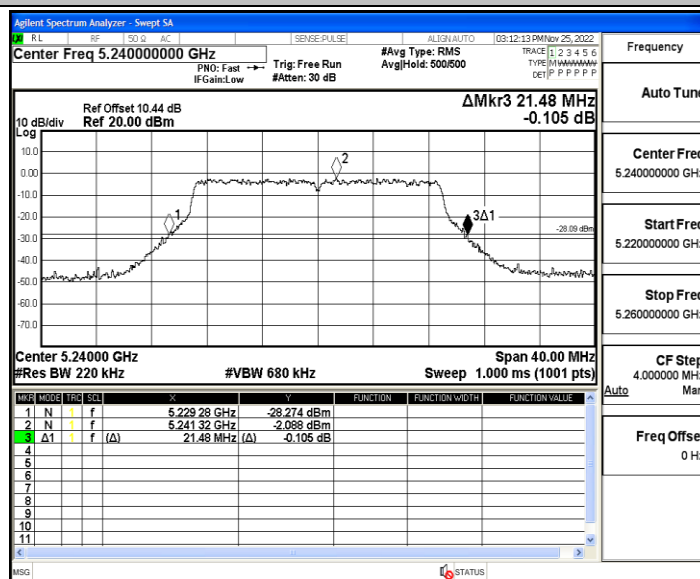
11AC20MIMO_Ant1_5200



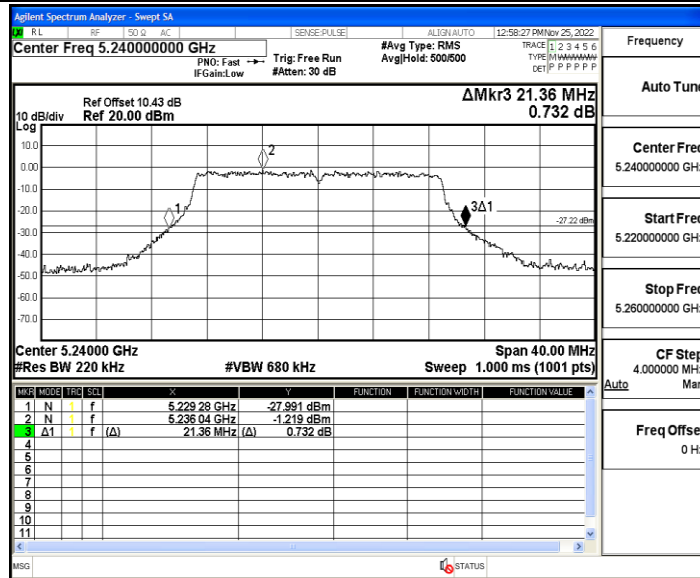
11AC20MIMO_Ant2_5200



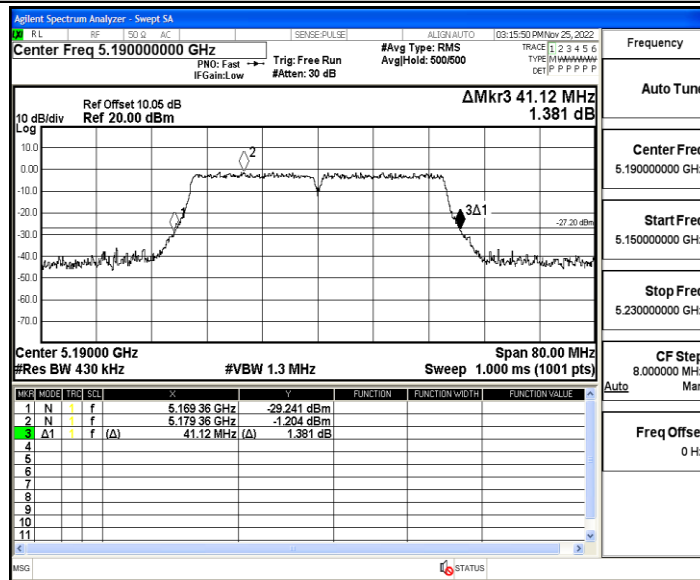
11AC20MIMO_Ant1_5240



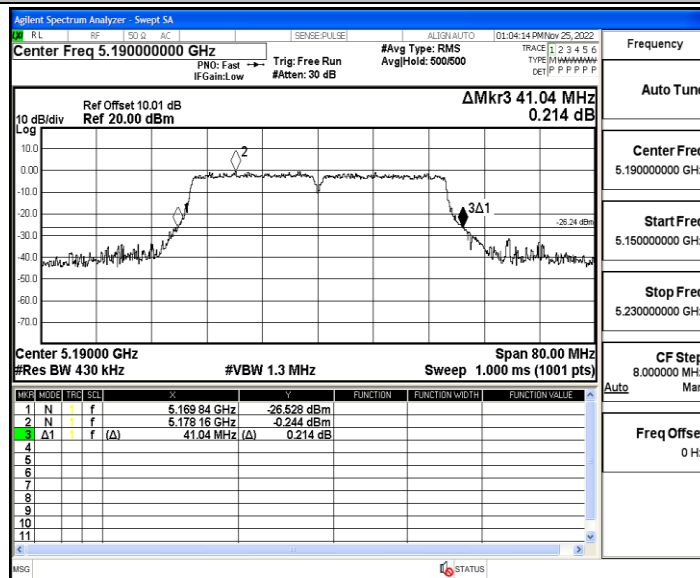
11AC20MIMO_Ant2_5240



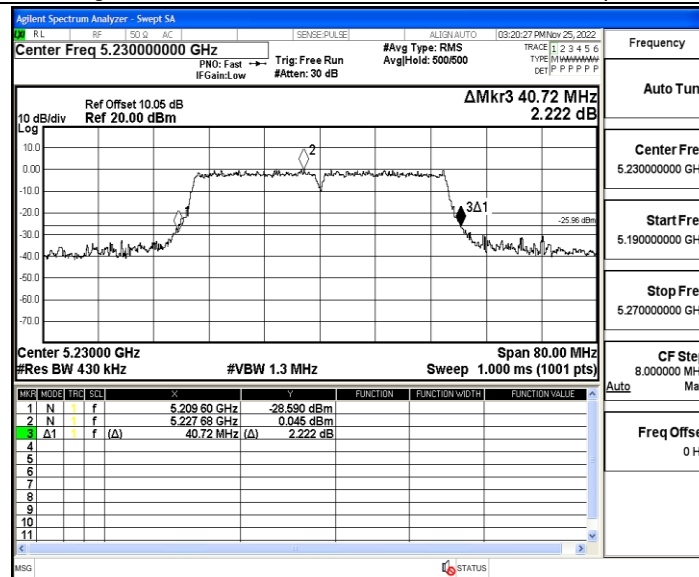
11AC40MIMO_Ant1_5190



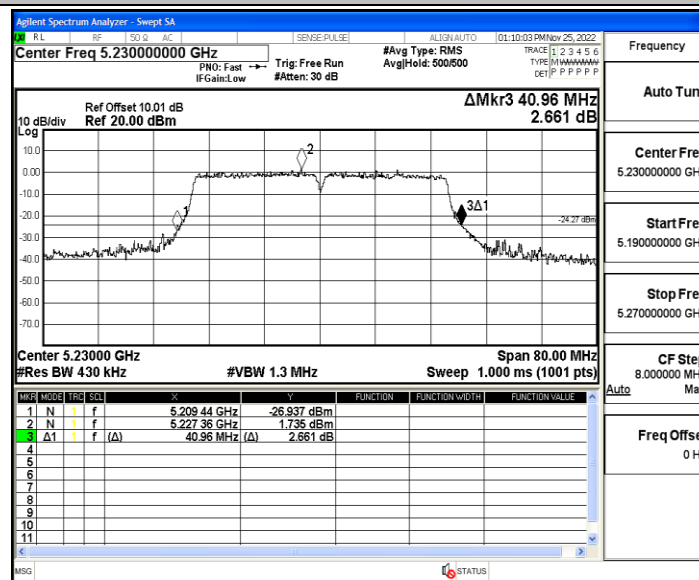
11AC40MIMO_Ant2_5190



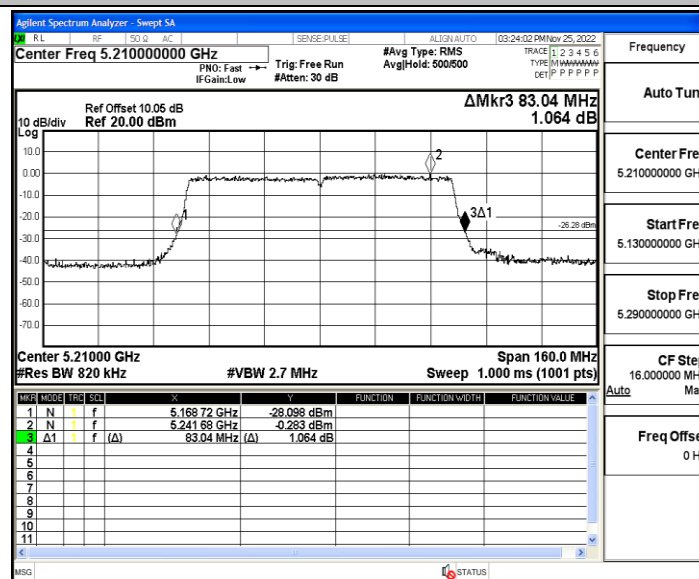
11AC40MIMO_Ant1_5230



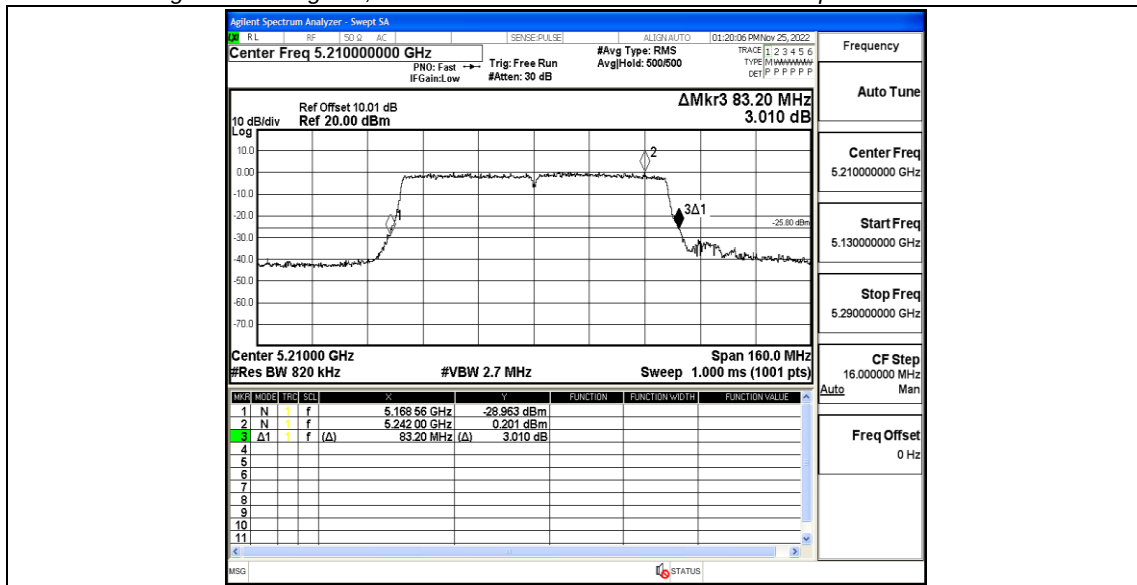
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



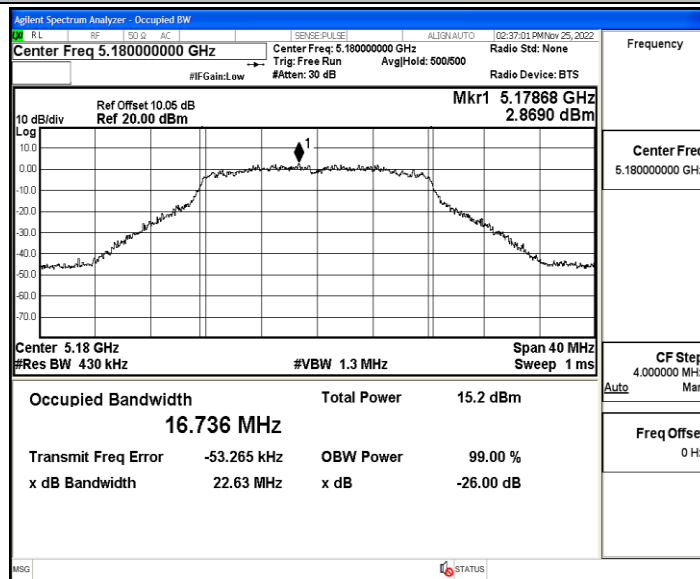
Appendix A2: Occupied channel bandwidth

Test Result

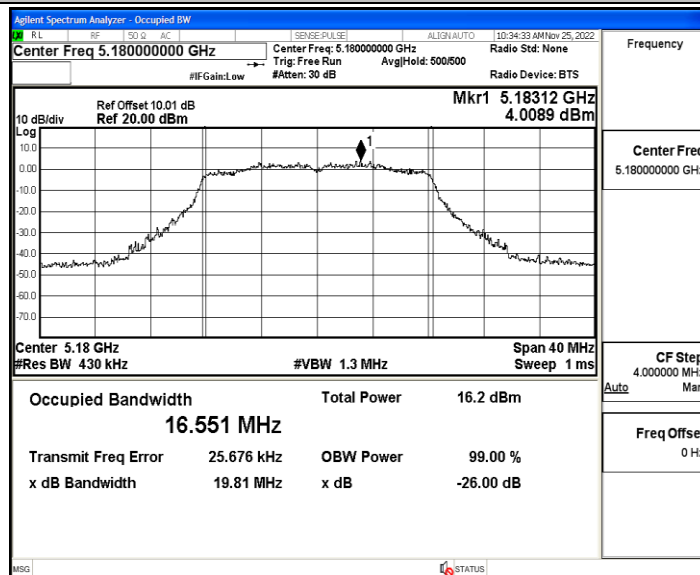
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.736	5171.5787	5188.3147	---	---
	Ant2	5180	16.551	5171.7502	5188.3012	---	---
	Ant1	5200	16.887	5191.5196	5208.4066	---	---
	Ant2	5200	16.629	5191.7013	5208.3303	---	---
	Ant1	5240	16.775	5231.5976	5248.3726	---	---
	Ant2	5240	16.625	5231.6648	5248.2898	---	---
11N20MIMO	Ant1	5180	17.743	5171.1102	5188.8532	---	---
	Ant2	5180	17.765	5171.1837	5188.9487	---	---
	Ant1	5200	17.791	5191.1193	5208.9103	---	---
	Ant2	5200	17.789	5191.1627	5208.9517	---	---
	Ant1	5240	17.798	5231.1039	5248.9019	---	---
	Ant2	5240	17.814	5231.1037	5248.9177	---	---
11N40MIMO	Ant1	5190	36.156	5171.9355	5208.0915	---	---
	Ant2	5190	36.065	5172.0246	5208.0896	---	---
	Ant1	5230	36.037	5212.0409	5248.0779	---	---
	Ant2	5230	36.013	5212.0543	5248.0673	---	---
11AC20MIMO	Ant1	5180	18.046	5170.9645	5189.0105	---	---
	Ant2	5180	18.022	5171.0699	5189.0919	---	---
	Ant1	5200	18.088	5190.9773	5209.0653	---	---
	Ant2	5200	18.115	5191.0302	5209.1452	---	---
	Ant1	5240	18.037	5230.9752	5249.0122	---	---
	Ant2	5240	18.078	5230.9940	5249.0720	---	---
11AC40MIMO	Ant1	5190	36.611	5171.7532	5208.3642	---	---
	Ant2	5190	36.662	5171.7650	5208.4270	---	---
	Ant1	5230	36.549	5211.7965	5248.3455	---	---
	Ant2	5230	36.565	5211.7708	5248.3358	---	---
11AC80MIMO	Ant1	5210	76.333	5172.0877	5248.4207	---	---
	Ant2	5210	75.992	5172.1795	5248.1715	---	---

Test Graphs

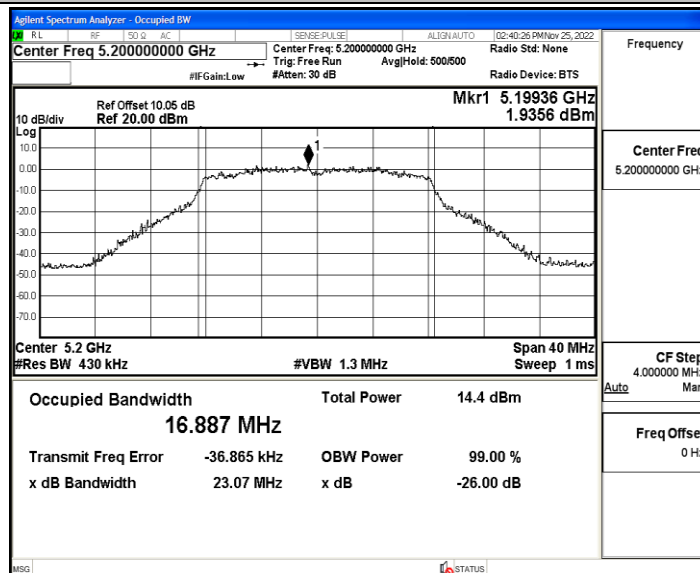
11A_Ant1_5180



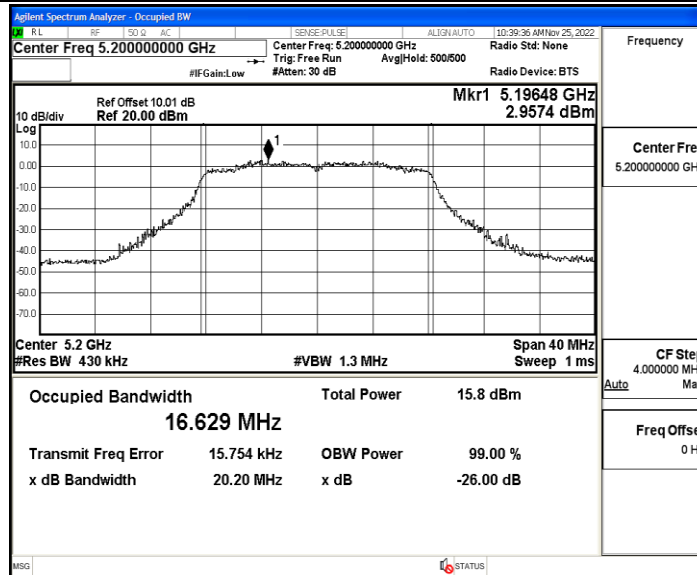
11A_Ant2_5180



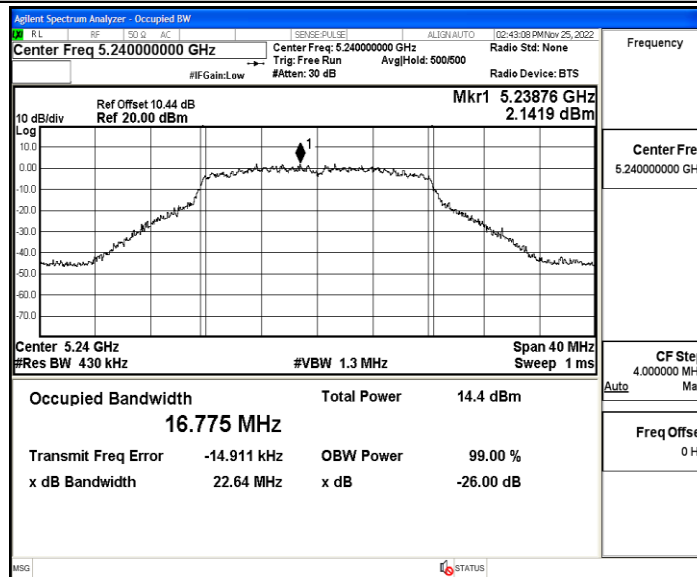
11A_Ant1_5200



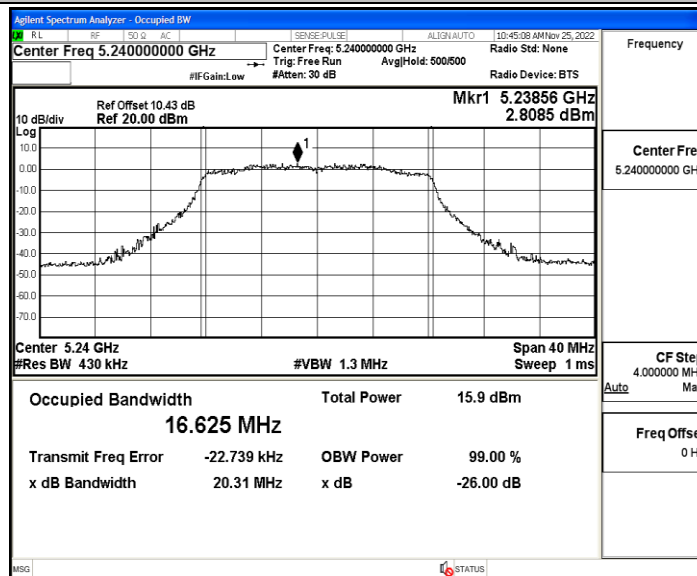
11A_Ant2_5200



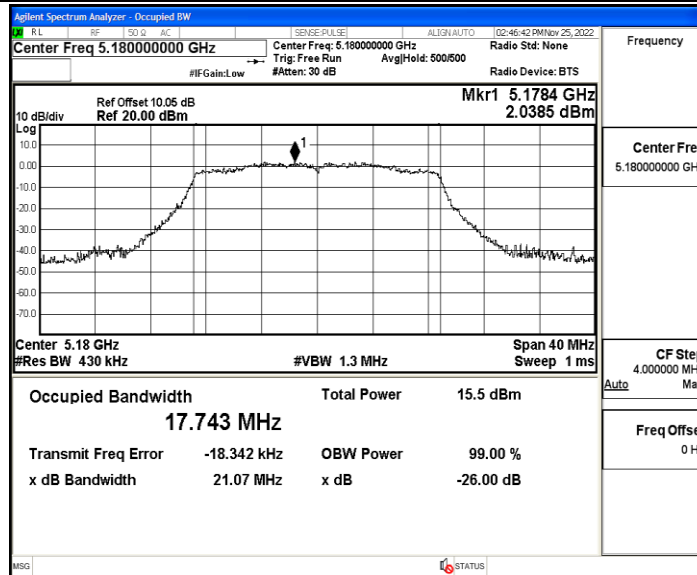
11A_Ant1_5240



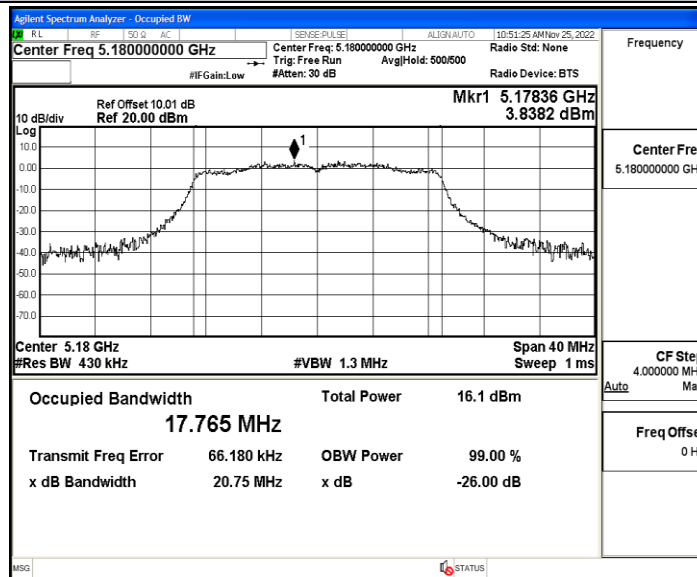
11A_Ant2_5240



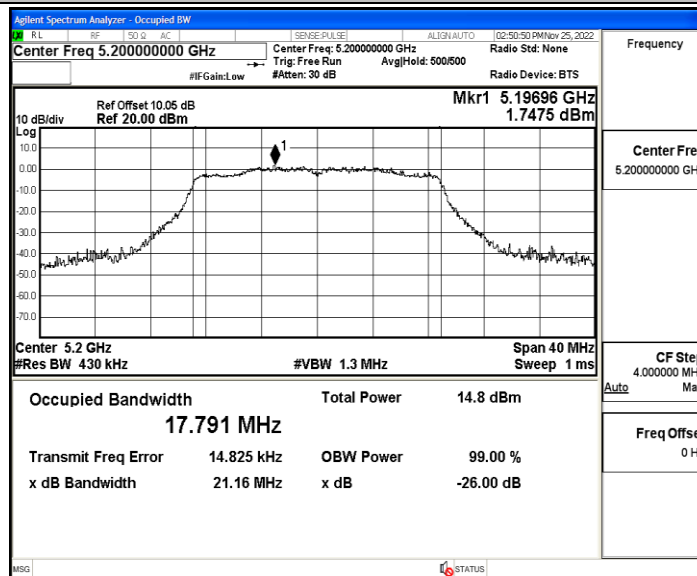
11N20MIMO_Ant1_5180



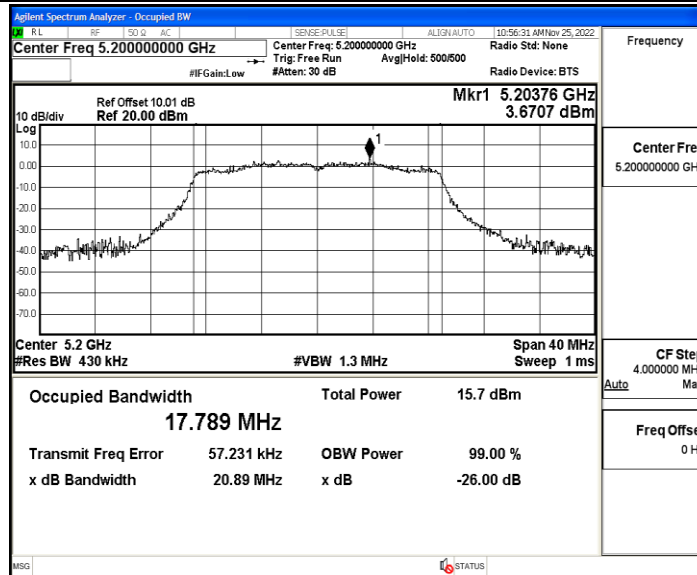
11N20MIMO_Ant2_5180



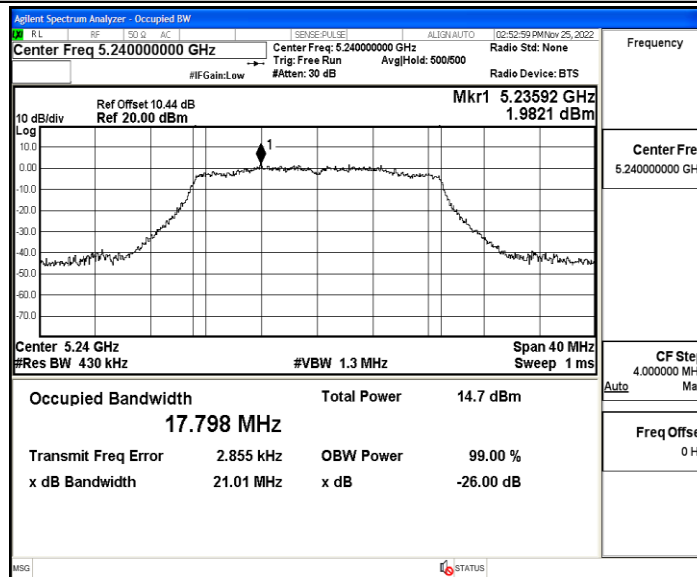
11N20MIMO_Ant1_5200



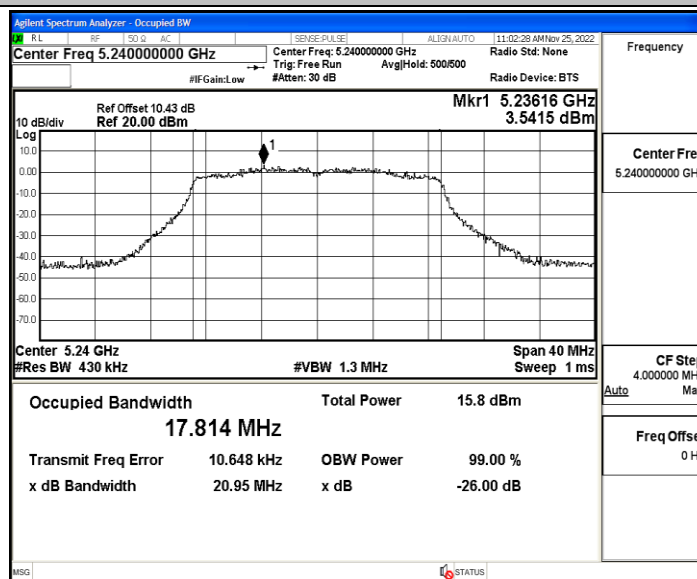
11N20MIMO_Ant2_5200



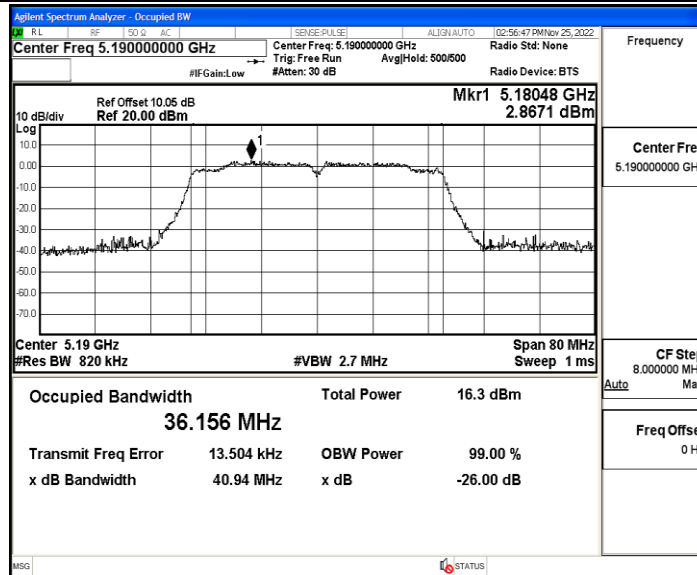
11N20MIMO_Ant1_5240



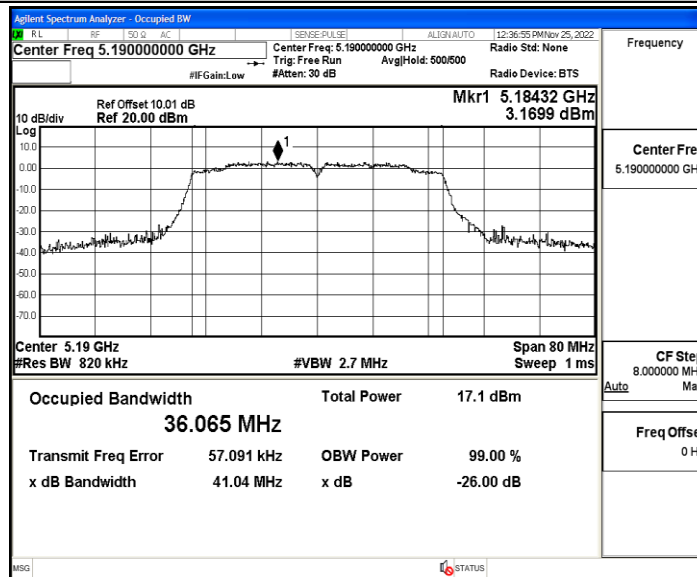
11N20MIMO_Ant2_5240



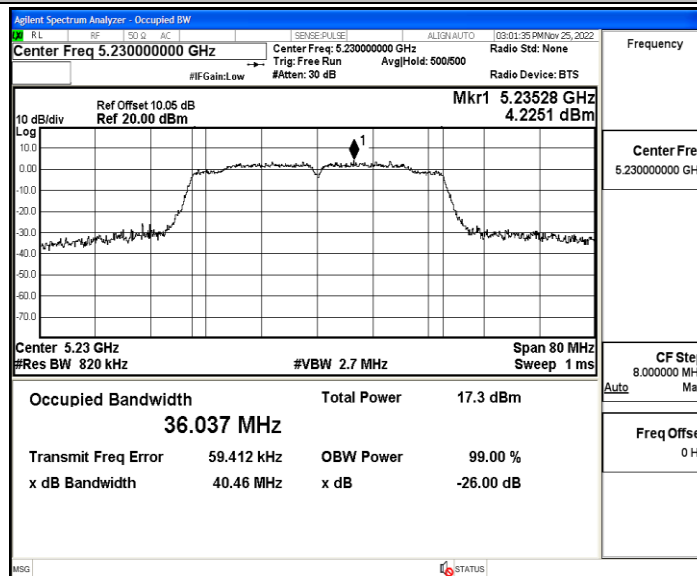
11N40MIMO_Ant1_5190



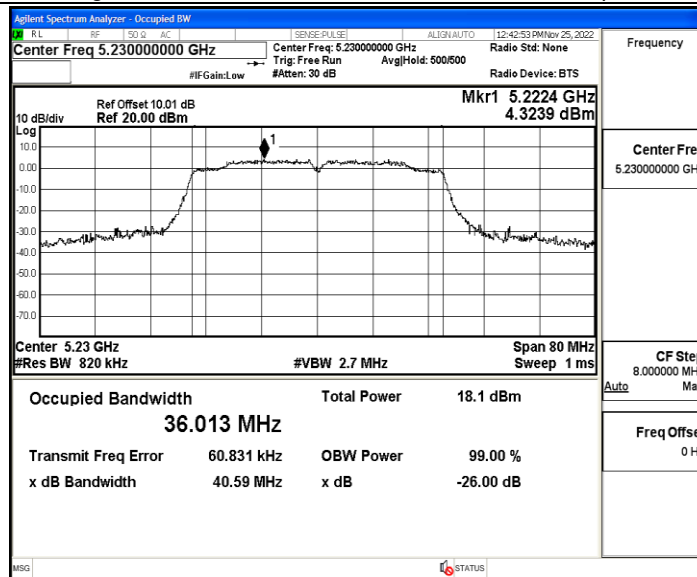
11N40MIMO_Ant2_5190



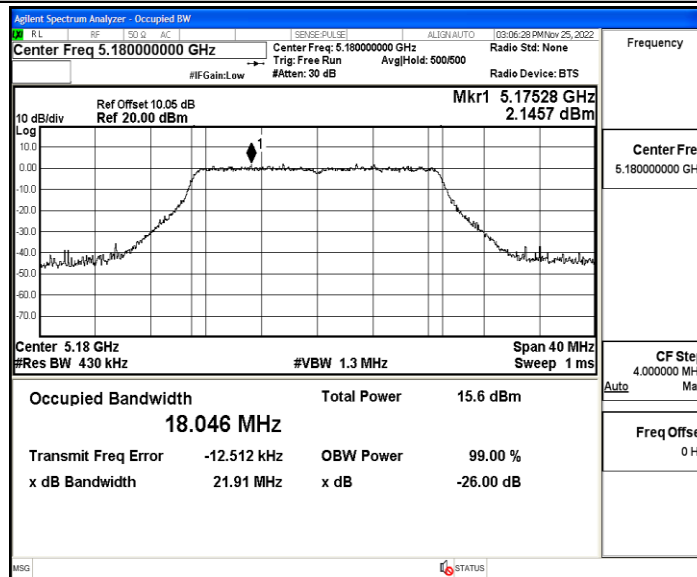
11N40MIMO_Ant1_5230



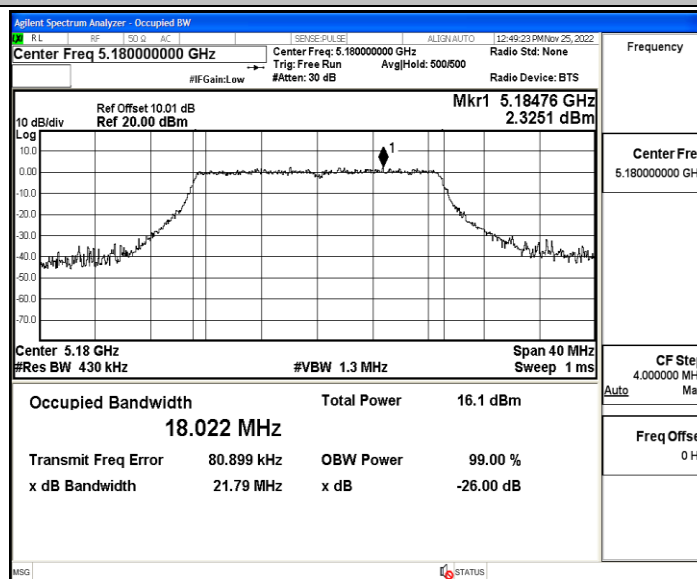
11N40MIMO_Ant2_5230



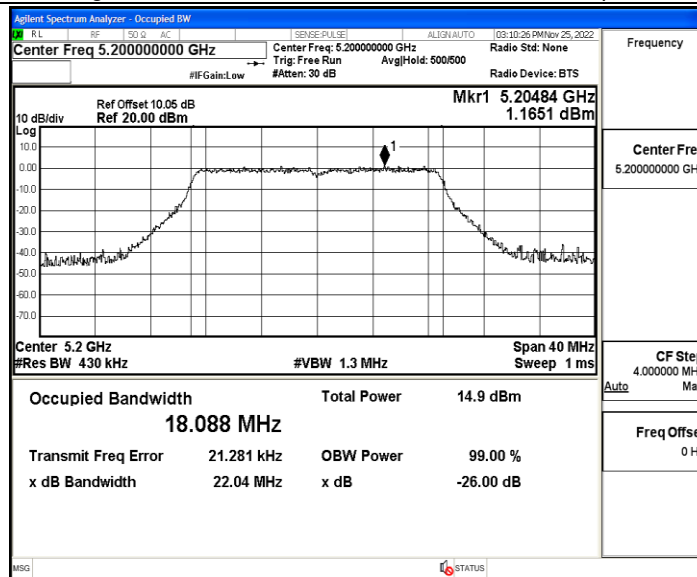
11AC20MIMO_Ant1_5180



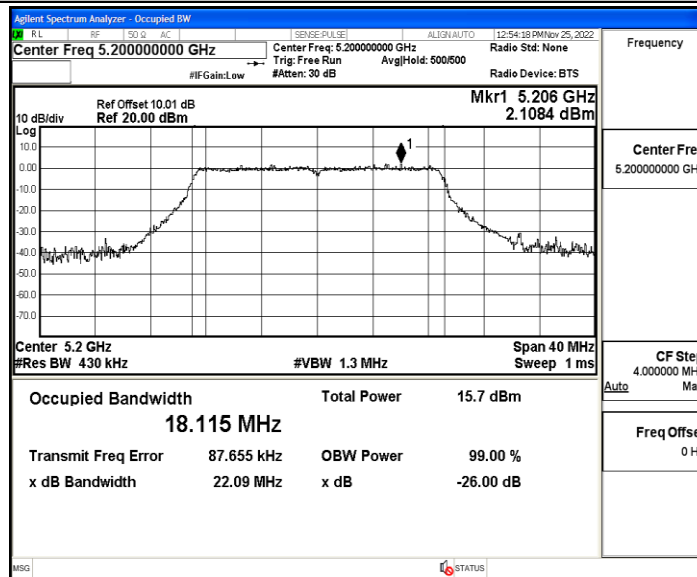
11AC20MIMO_Ant2_5180



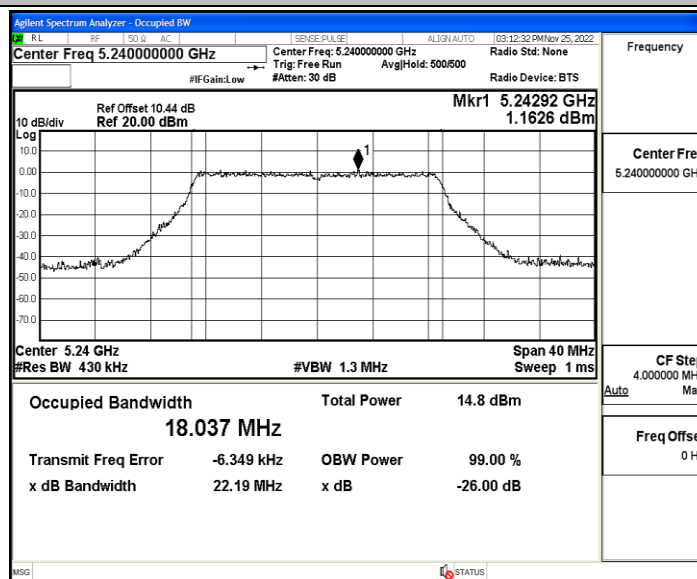
11AC20MIMO_Ant1_5200



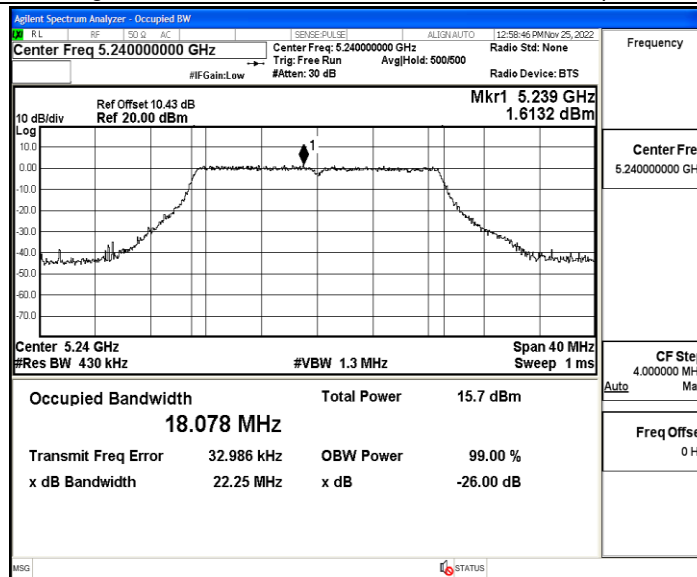
11AC20MIMO_Ant2_5200



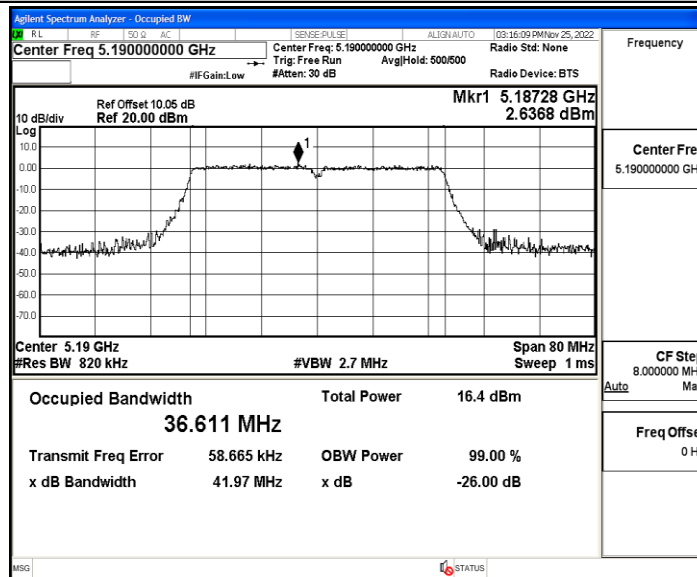
11AC20MIMO_Ant1_5240



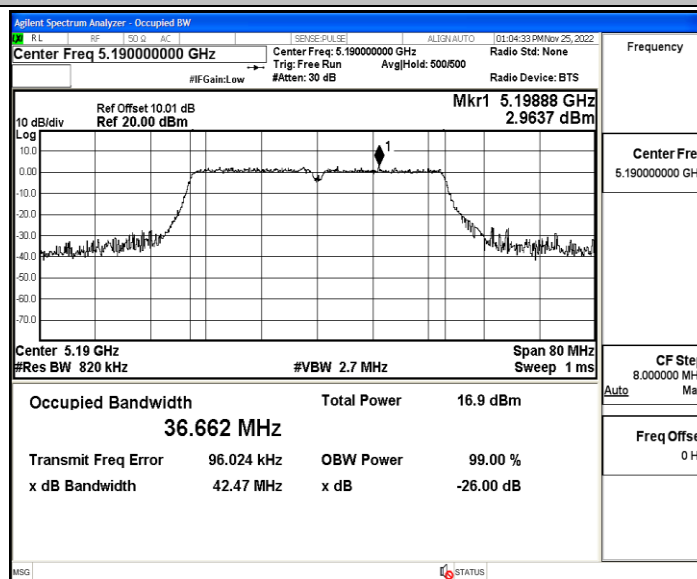
11AC20MIMO_Ant2_5240



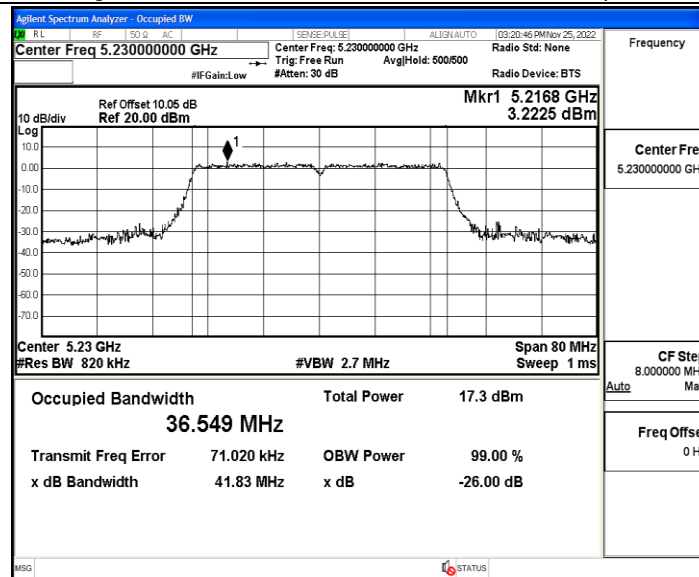
11AC40MIMO_Ant1_5190



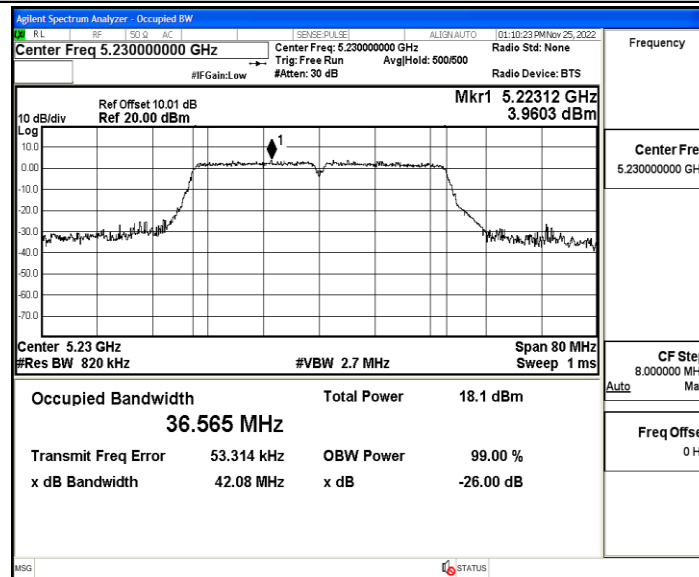
11AC40MIMO_Ant2_5190



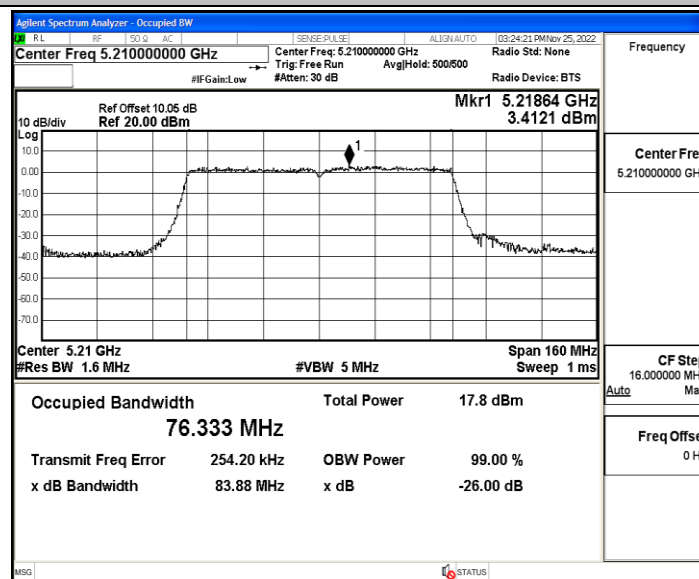
11AC40MIMO_Ant1_5230



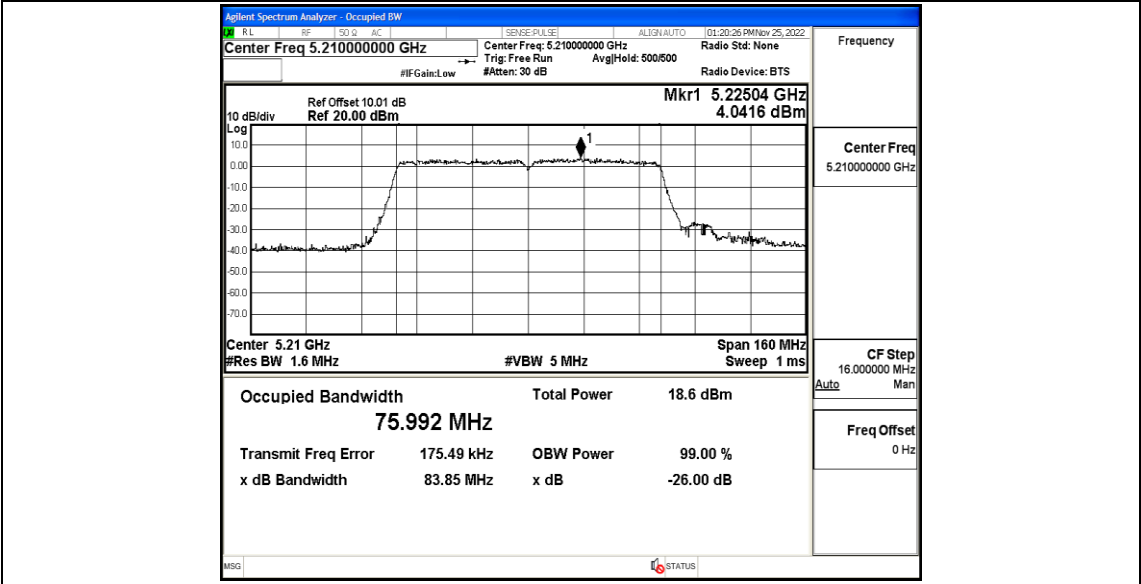
11AC40MIMO_Ant2_5230



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	8.00	≤23.98	PASS
	Ant2	5180	8.26	≤23.98	PASS
	Ant1	5200	7.49	≤23.98	PASS
	Ant2	5200	7.77	≤23.98	PASS
	Ant1	5240	7.12	≤23.98	PASS
	Ant2	5240	7.92	≤23.98	PASS
11N20MIMO	Ant1	5180	8.12	≤23.98	PASS
	Ant2	5180	8.48	≤23.98	PASS
	total	5180	11.31	≤23.98	PASS
	Ant1	5200	7.51	≤23.98	PASS
	Ant2	5200	8.08	≤23.98	PASS
	total	5200	10.81	≤23.98	PASS
	Ant1	5240	7.36	≤23.98	PASS
	Ant2	5240	8.27	≤23.98	PASS
	total	5240	10.85	≤23.98	PASS
11N40MIMO	Ant1	5190	8.26	≤23.98	PASS
	Ant2	5190	8.75	≤23.98	PASS
	total	5190	11.52	≤23.98	PASS
	Ant1	5230	9.33	≤23.98	PASS
	Ant2	5230	10.09	≤23.98	PASS
	total	5230	12.74	≤23.98	PASS
11AC20MIMO	Ant1	5180	8.22	≤23.98	PASS
	Ant2	5180	8.51	≤23.98	PASS
	total	5180	11.38	≤23.98	PASS
	Ant1	5200	7.59	≤23.98	PASS
	Ant2	5200	8.15	≤23.98	PASS
	total	5200	10.89	≤23.98	PASS
	Ant1	5240	7.49	≤23.98	PASS
	Ant2	5240	8.14	≤23.98	PASS
	total	5240	10.84	≤23.98	PASS
11AC40MIMO	Ant1	5190	8.29	≤23.98	PASS
	Ant2	5190	8.79	≤23.98	PASS
	total	5190	11.56	≤23.98	PASS
	Ant1	5230	9.22	≤23.98	PASS
	Ant2	5230	9.98	≤23.98	PASS
	total	5230	12.63	≤23.98	PASS
11AC80MIMO	Ant1	5210	8.92	≤23.98	PASS
	Ant2	5210	9.67	≤23.98	PASS
	total	5210	12.32	≤23.98	PASS

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

Appendix C: Maximum power spectral density

Test Result

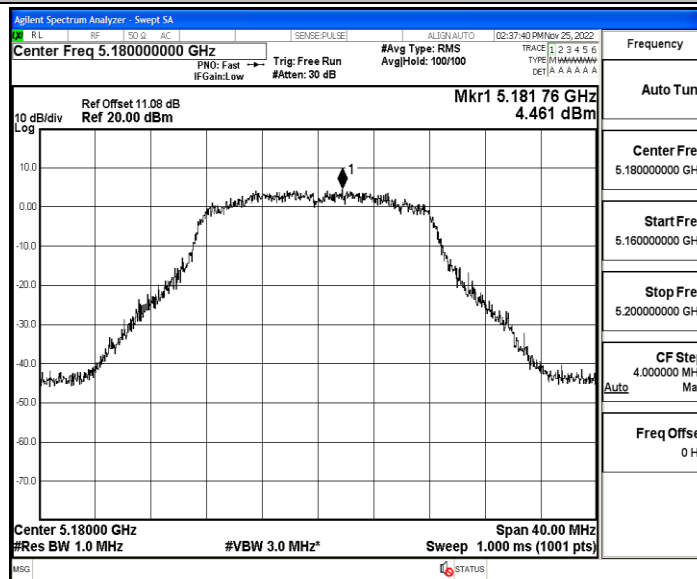
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	4.46	≤11.00	PASS
	Ant2	5180	4.12	≤11.00	PASS
	Ant1	5200	4.26	≤11.00	PASS
	Ant2	5200	4.01	≤11.00	PASS
	Ant1	5240	3.42	≤11.00	PASS
	Ant2	5240	4.56	≤11.00	PASS
11N20MIMO	Ant1	5180	4.65	≤11.00	PASS
	Ant2	5180	5.06	≤11.00	PASS
	total	5180	7.87	≤11.00	PASS
	Ant1	5200	3.92	≤11.00	PASS
	Ant2	5200	4.32	≤11.00	PASS
	total	5200	7.13	≤11.00	PASS
	Ant1	5240	3.28	≤11.00	PASS
	Ant2	5240	4.76	≤11.00	PASS
	total	5240	7.09	≤11.00	PASS
11N40MIMO	Ant1	5190	1.28	≤11.00	PASS
	Ant2	5190	1.87	≤11.00	PASS
	total	5190	4.60	≤11.00	PASS
	Ant1	5230	2.5	≤11.00	PASS
	Ant2	5230	3.31	≤11.00	PASS
	total	5230	5.93	≤11.00	PASS
11AC20MIMO	Ant1	5180	4.27	≤11.00	PASS
	Ant2	5180	3.91	≤11.00	PASS
	total	5180	7.10	≤11.00	PASS
	Ant1	5200	2.96	≤11.00	PASS
	Ant2	5200	3.52	≤11.00	PASS
	total	5200	6.26	≤11.00	PASS
	Ant1	5240	2.84	≤11.00	PASS
	Ant2	5240	3.71	≤11.00	PASS
	total	5240	6.31	≤11.00	PASS
11AC40MIMO	Ant1	5190	0.64	≤11.00	PASS
	Ant2	5190	1.65	≤11.00	PASS
	total	5190	4.18	≤11.00	PASS
	Ant1	5230	1.64	≤11.00	PASS
	Ant2	5230	3.22	≤11.00	PASS
	total	5230	5.51	≤11.00	PASS
11AC80MIMO	Ant1	5210	-1.15	≤11.00	PASS
	Ant2	5210	-0.34	≤11.00	PASS
	total	5210	2.28	≤11.00	PASS

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

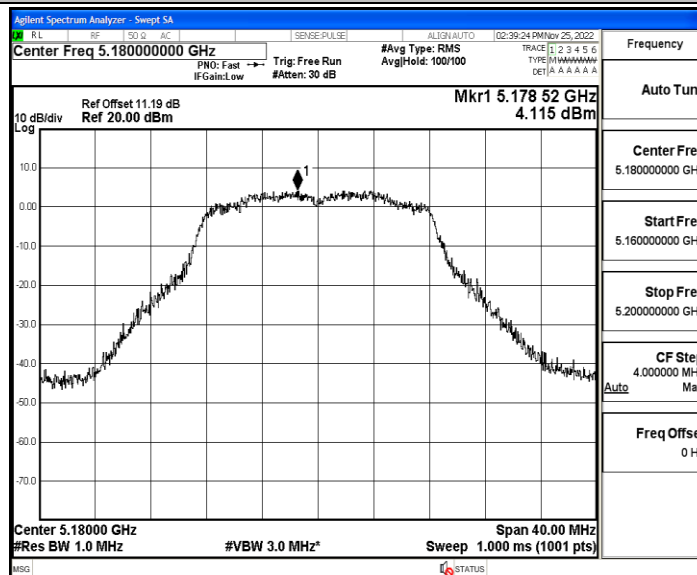
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

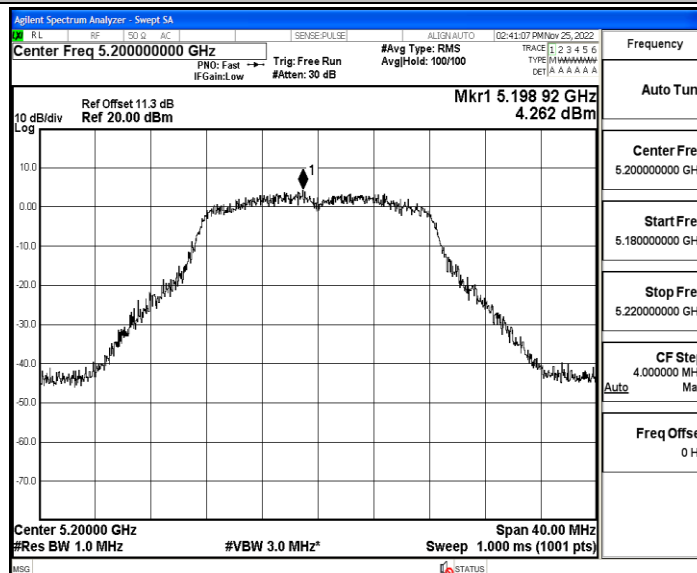
11A_Ant1_5180



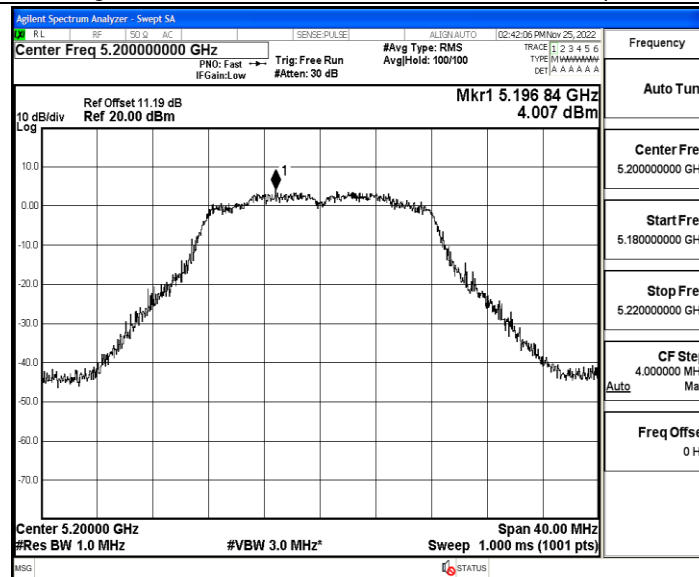
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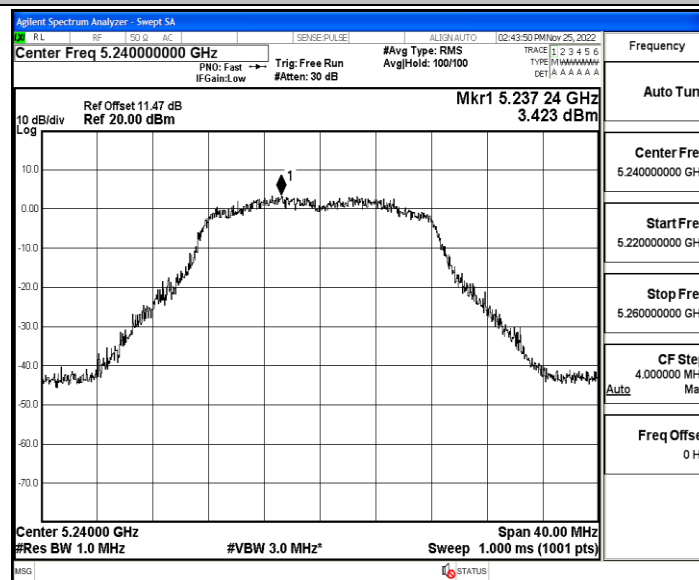
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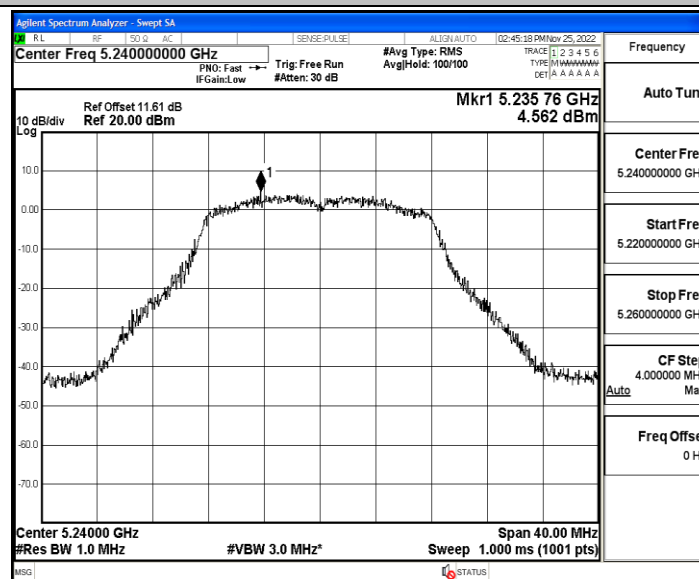
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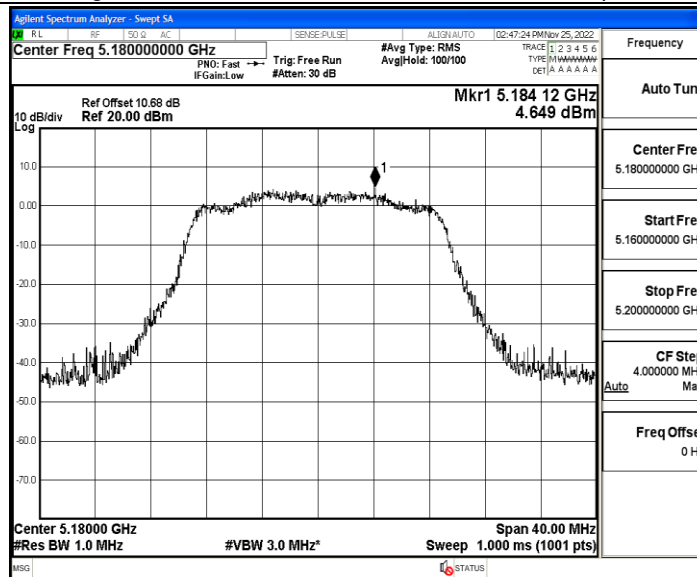
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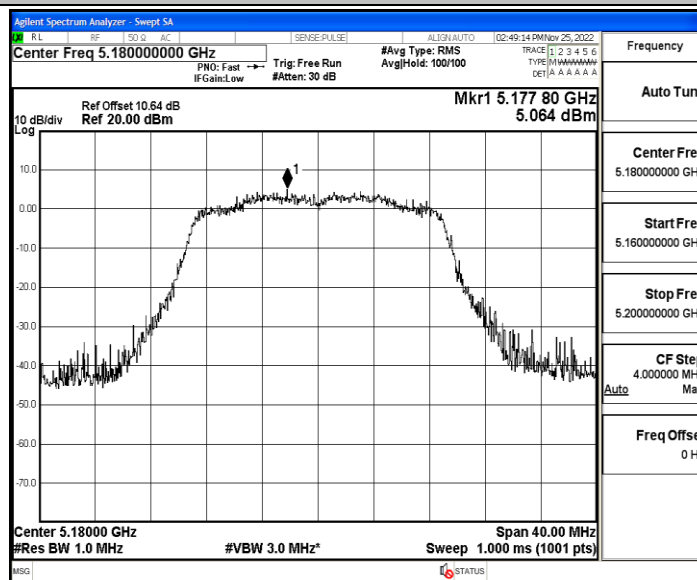
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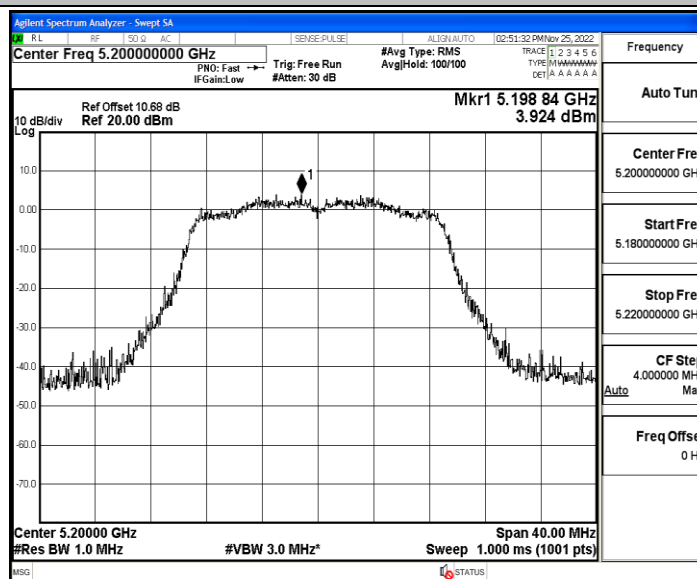
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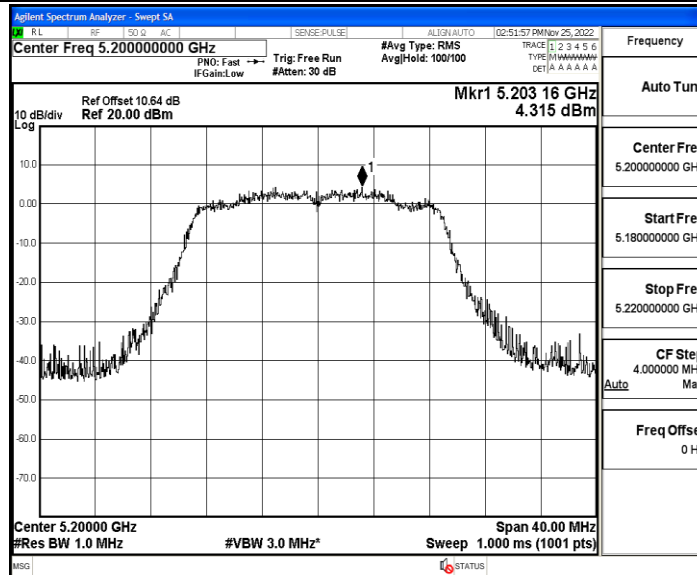
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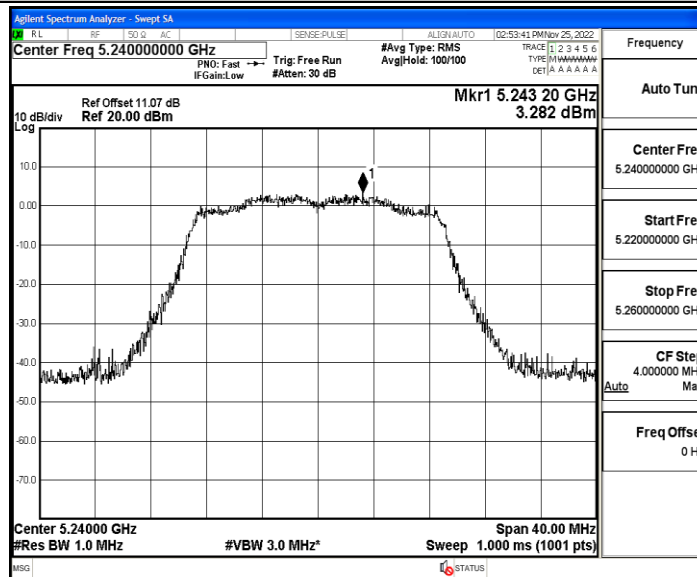
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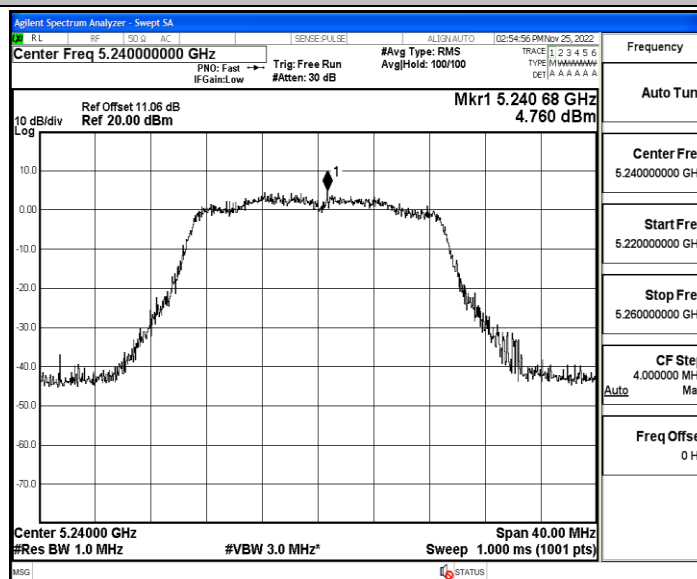
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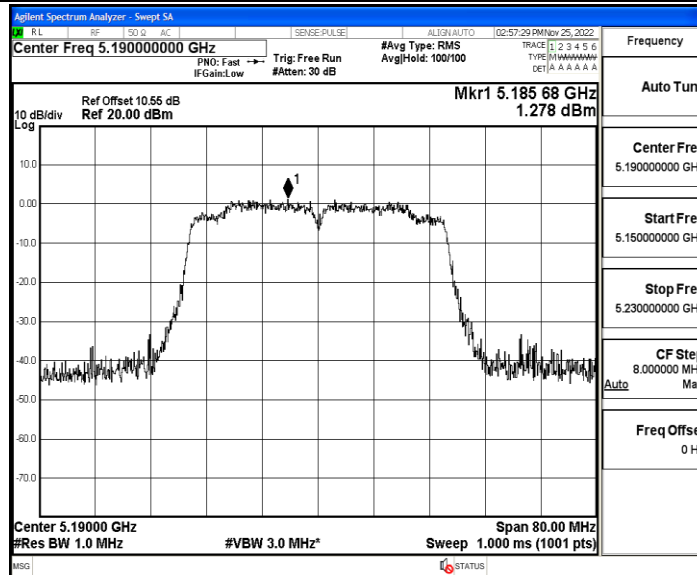
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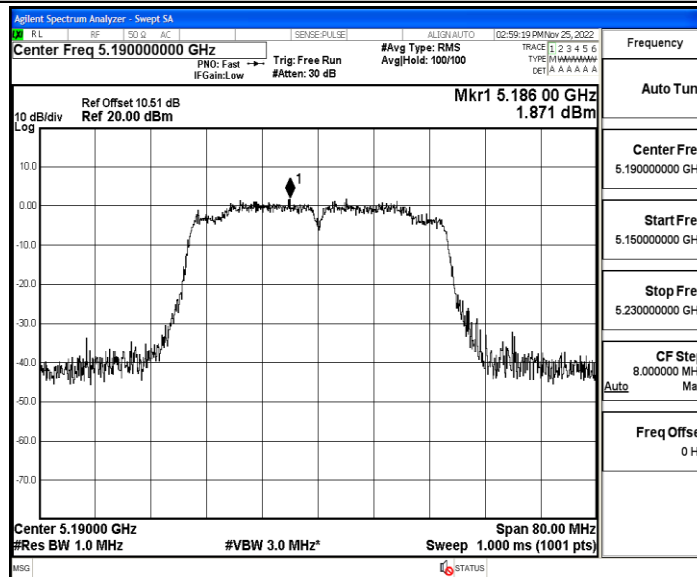
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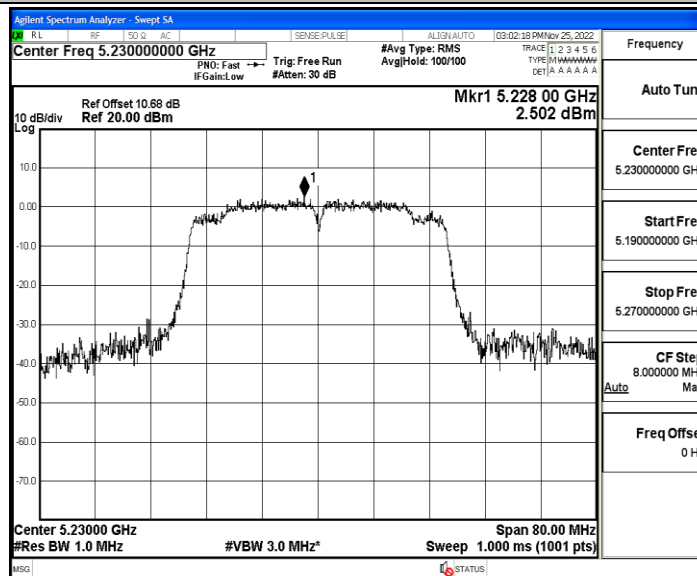
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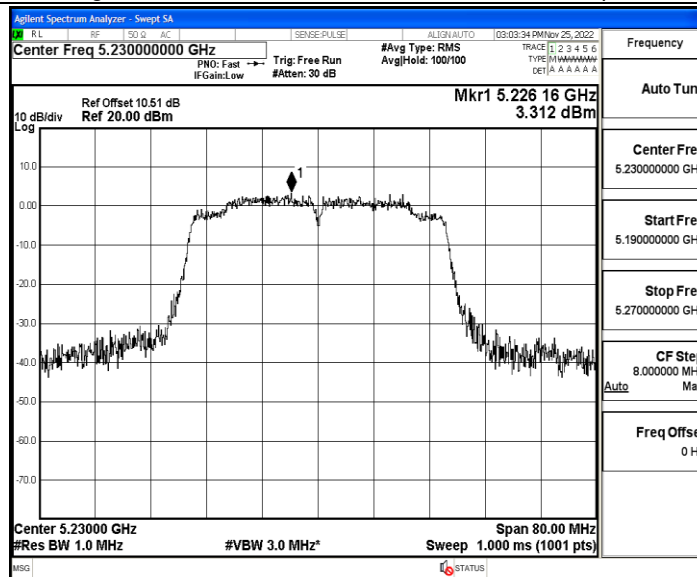
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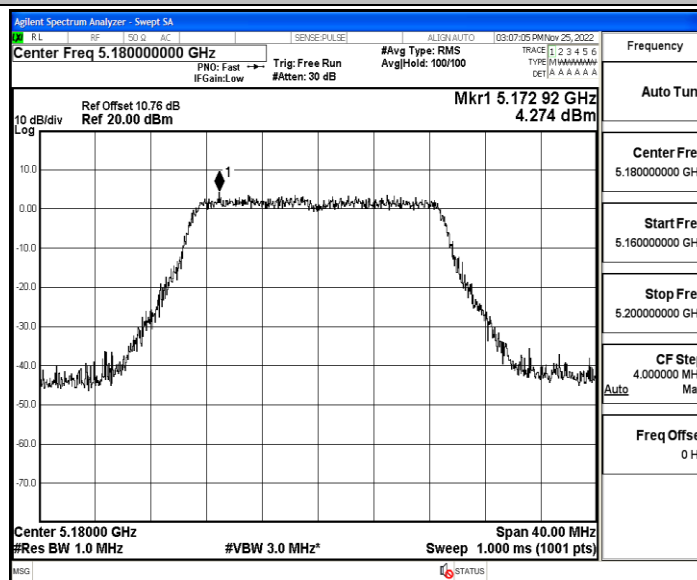
11N40MIMO_Ant1_5230



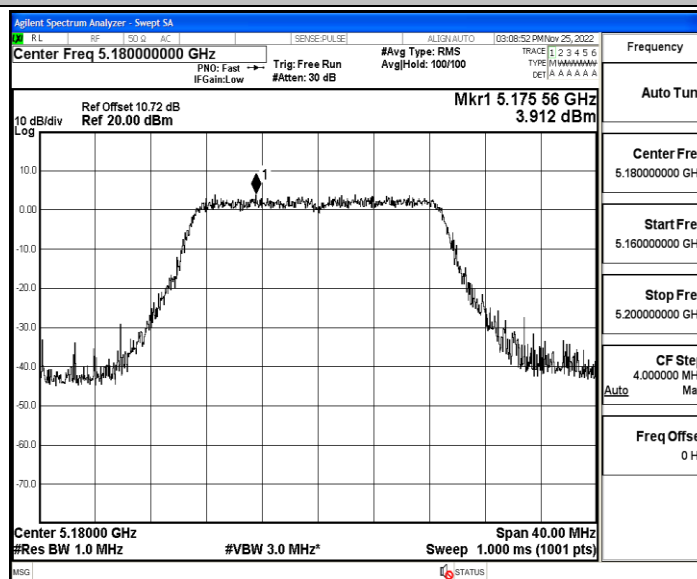
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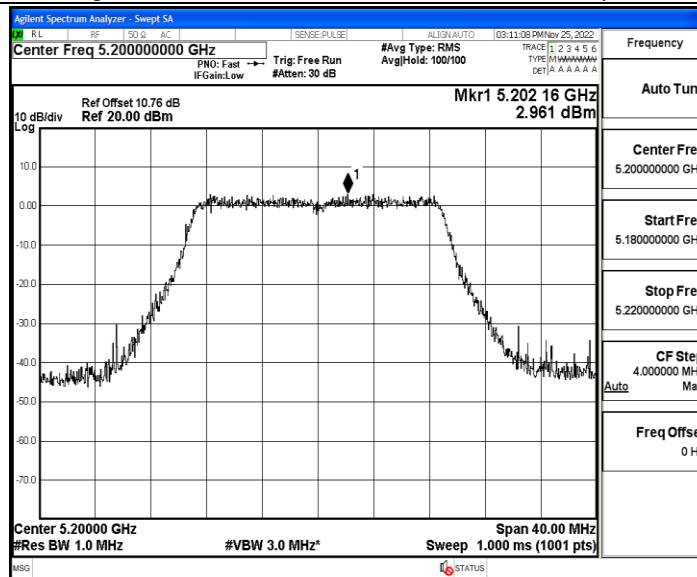
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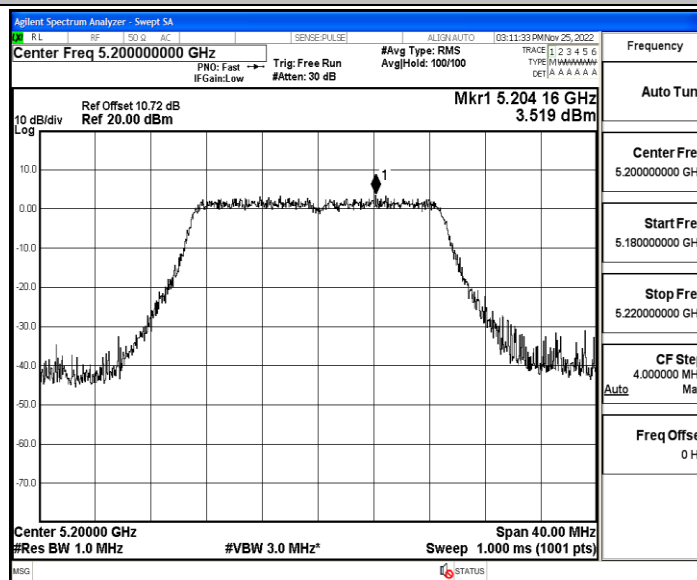
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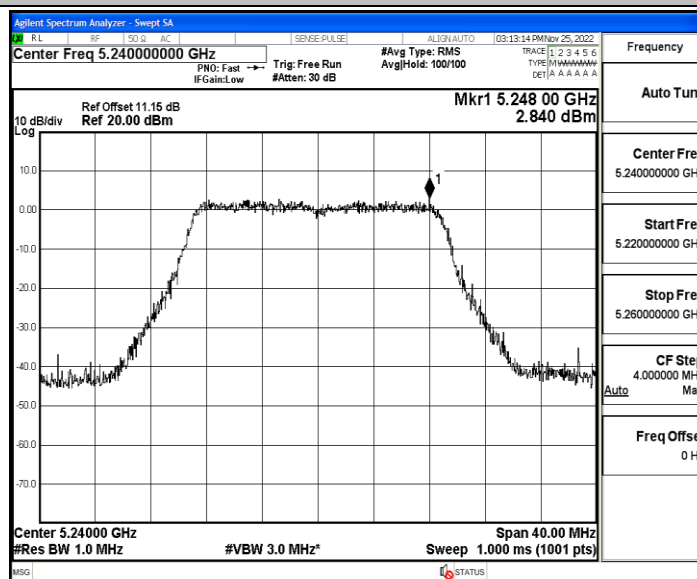
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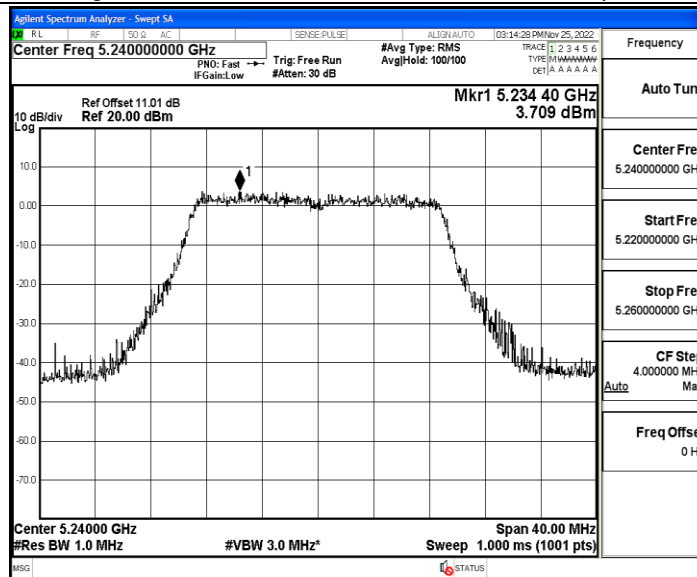
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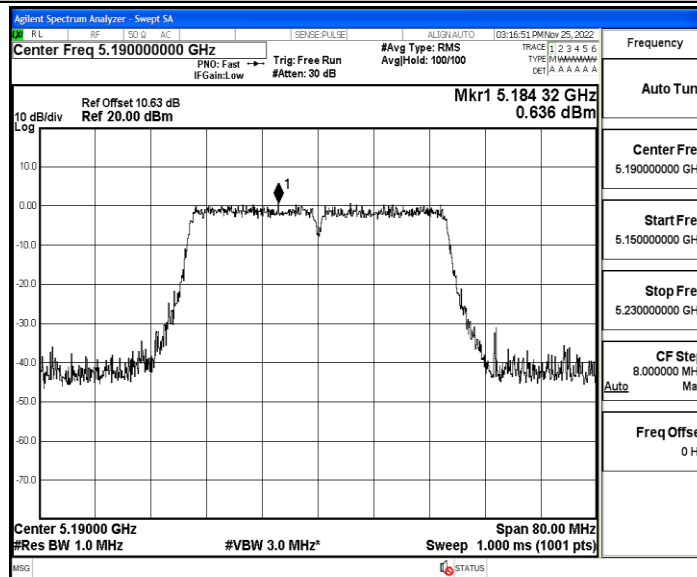
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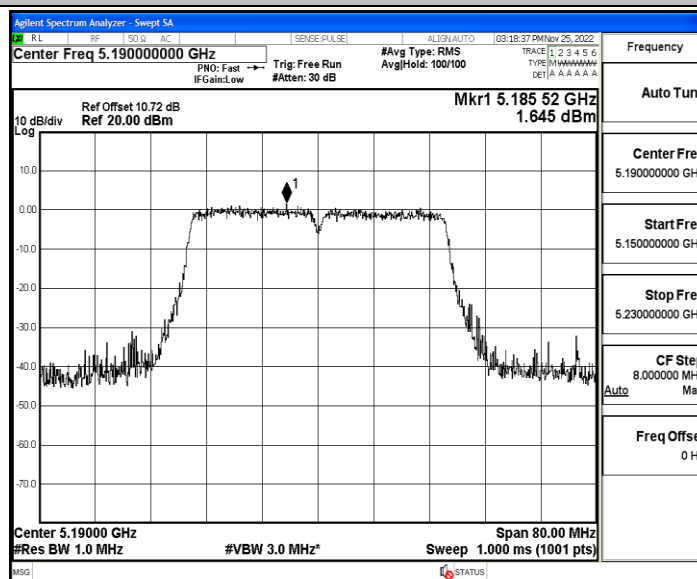
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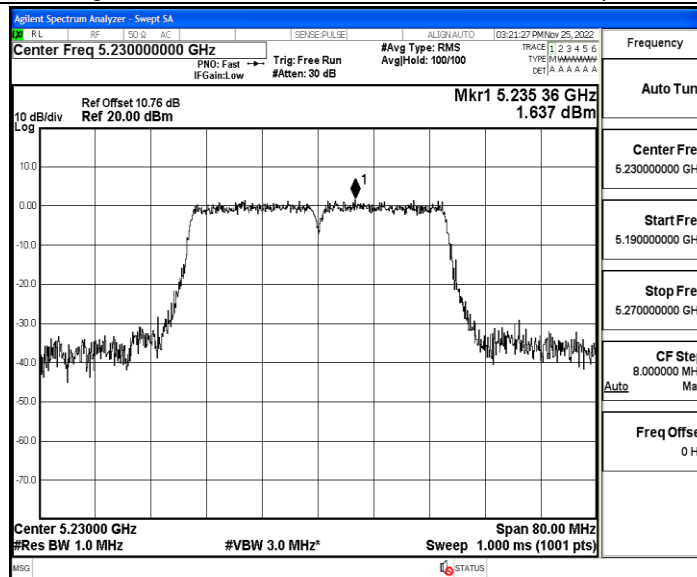
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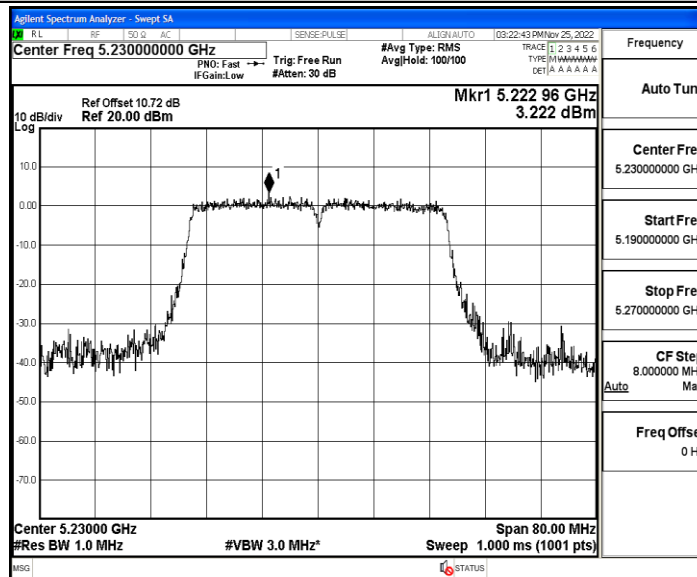
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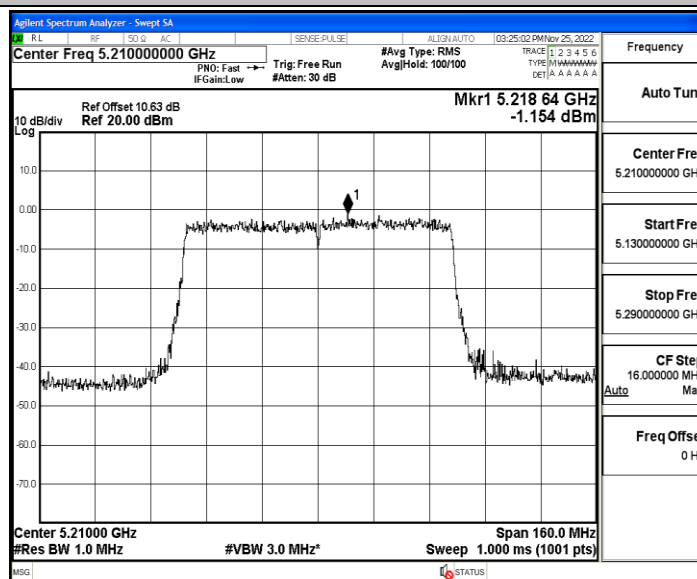
11AC40MIMO_Ant1_5230



11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210