

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

Product Name: 4K HDMI dongle

Trade Mark: Homatics

Test Model: SN8BAGC

FCC ID: 2AOVU-DONGLEQ

Environmental Conditions

Temperature:	24.3℃
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A1: Emission Bandwidth

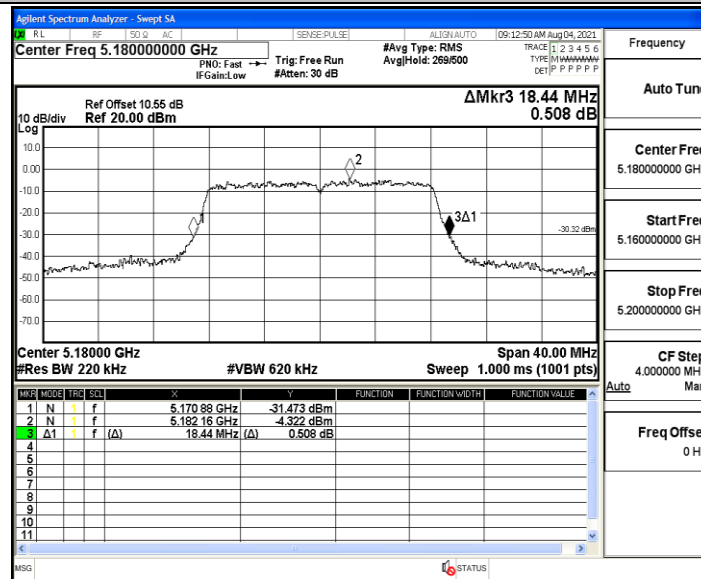
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	18.440	5170.880	5189.320	---	PASS
	Ant2	5180	28.320	5167.040	5195.360	---	PASS
	Ant1	5200	18.440	5190.880	5209.320	---	PASS
	Ant2	5200	31.320	5186.000	5217.320	---	PASS
	Ant1	5240	18.440	5230.920	5249.360	---	PASS
	Ant2	5240	33.840	5223.720	5257.560	---	PASS
11N20MIMO	Ant1	5180	19.520	5170.360	5189.880	---	PASS
	Ant2	5180	29.560	5166.520	5196.080	---	PASS
	Ant1	5200	19.400	5190.360	5209.760	---	PASS
	Ant2	5200	29.280	5186.600	5215.880	---	PASS
	Ant1	5240	19.400	5230.360	5249.760	---	PASS
	Ant2	5240	33.320	5225.880	5259.200	---	PASS
11N40MIMO	Ant1	5190	40.560	5170.000	5210.560	---	PASS
	Ant2	5190	41.120	5170.080	5211.200	---	PASS
	Ant1	5230	40.960	5209.760	5250.720	---	PASS
	Ant2	5230	47.440	5209.840	5257.280	---	PASS
11AC20MIMO	Ant1	5180	19.520	5170.320	5189.840	---	PASS
	Ant2	5180	33.680	5164.680	5198.360	---	PASS
	Ant1	5200	19.480	5190.320	5209.800	---	PASS
	Ant2	5200	33.600	5186.400	5220.000	---	PASS
	Ant1	5240	19.440	5230.320	5249.760	---	PASS
	Ant2	5240	33.840	5226.160	5260.000	---	PASS
11AC40MIMO	Ant1	5190	40.800	5169.760	5210.560	---	PASS
	Ant2	5190	46.640	5170.160	5216.800	---	PASS
	Ant1	5230	40.560	5209.920	5250.480	---	PASS
	Ant2	5230	48.320	5210.320	5258.640	---	PASS

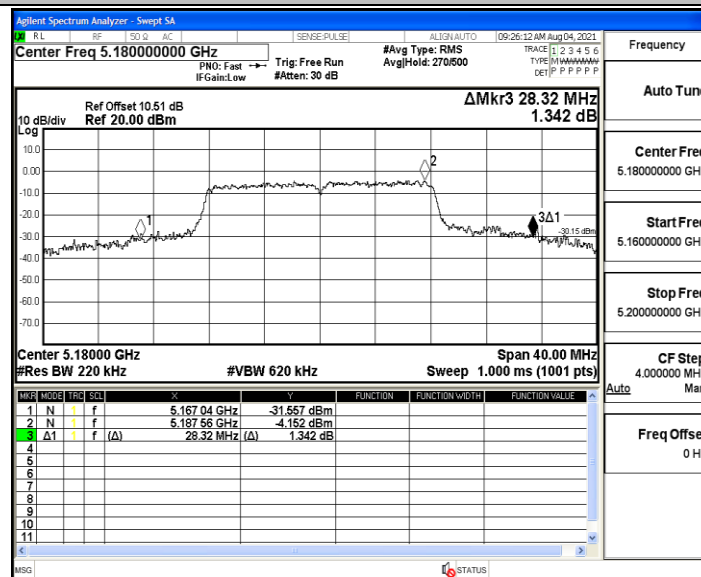
11AC80MIMO	Ant1	5210	80.960	5170.320	5251.280	---	PASS
	Ant2	5210	81.440	5170.640	5252.080	---	PASS

Test Graphs

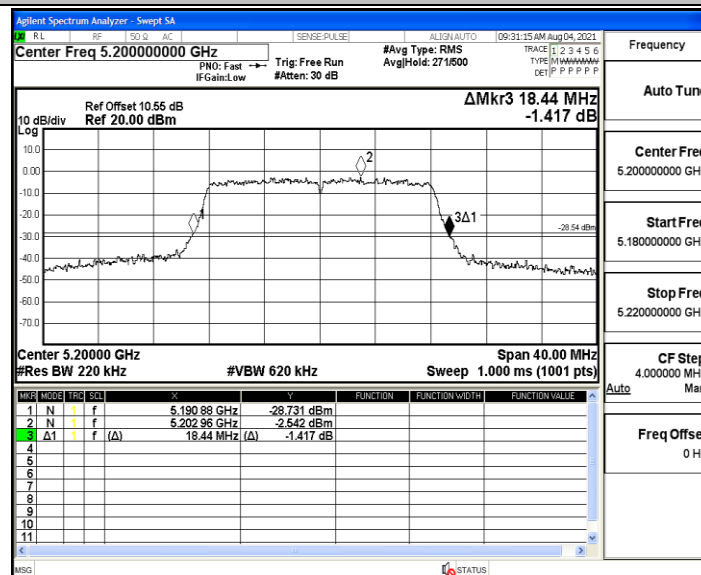
11A_Ant1_5180



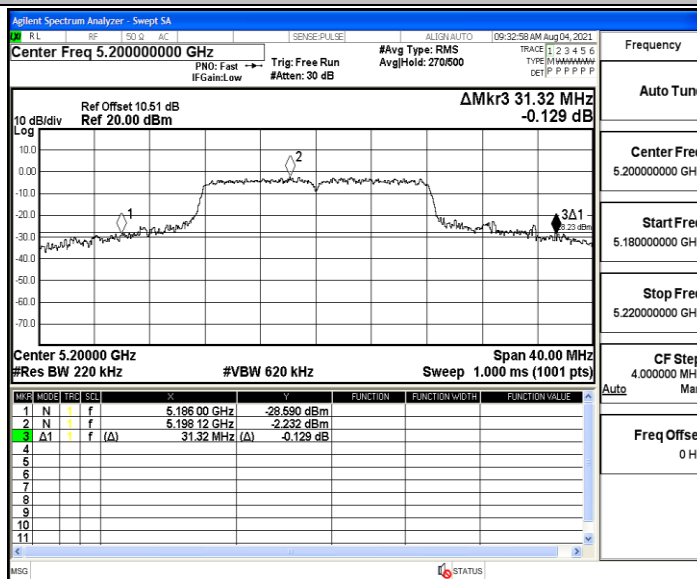
11A_Ant2_5180



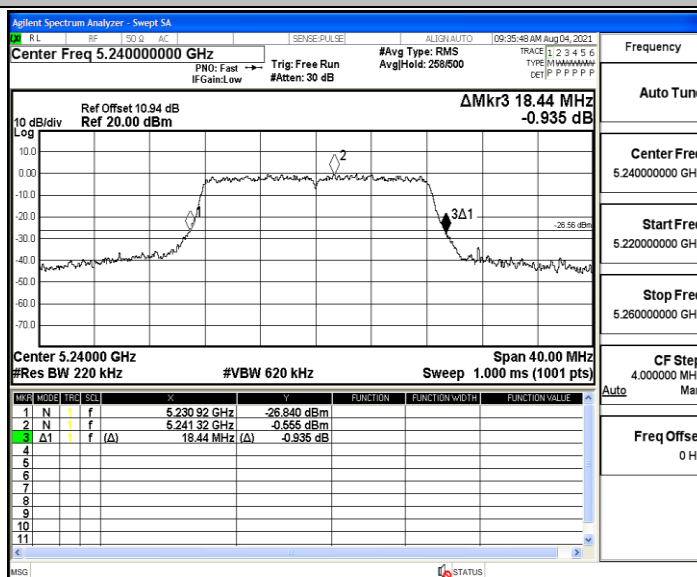
11A_Ant1_5200



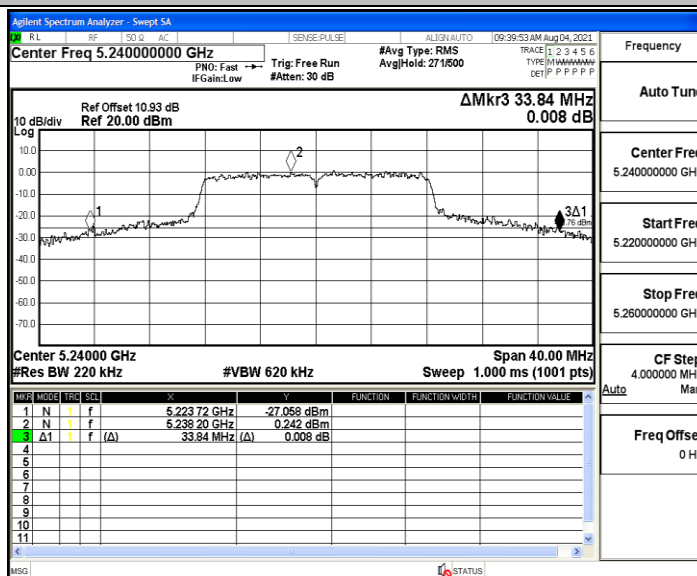
11A_Ant2_5200



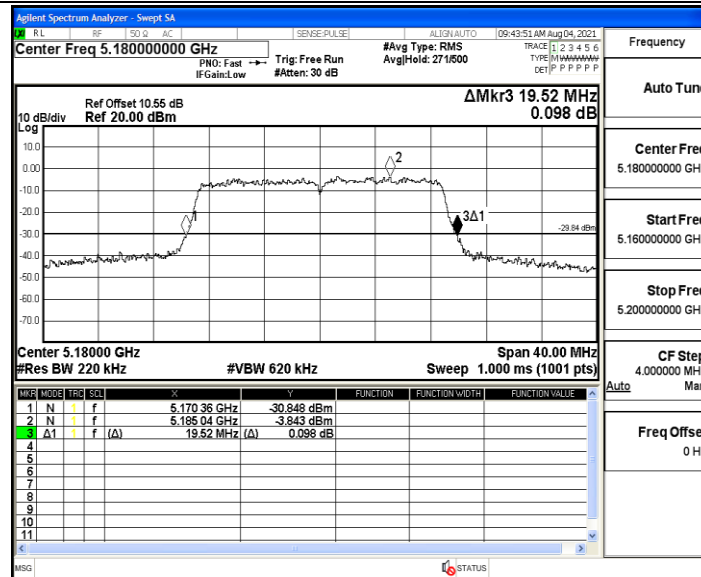
11A_Ant1_5240



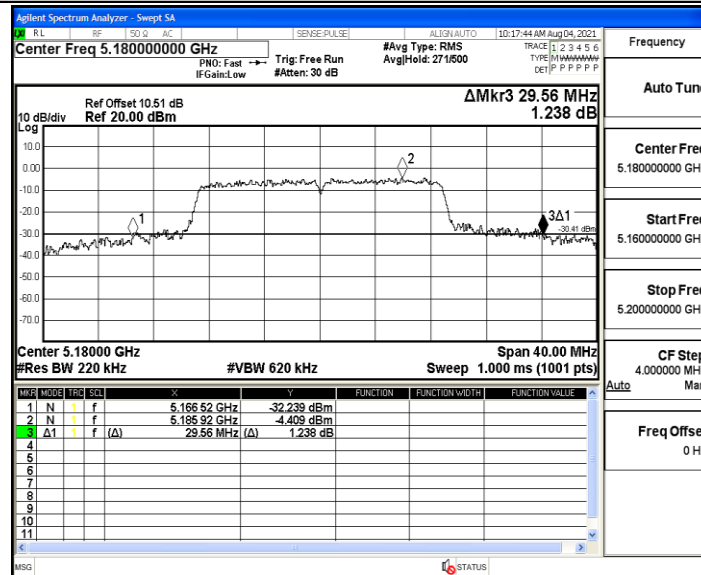
11A_Ant2_5240



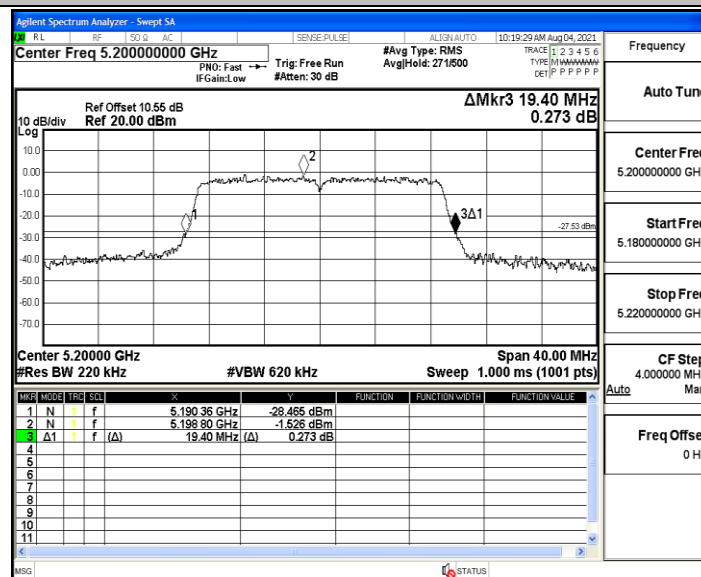
11N20MIMO_Ant1_5180



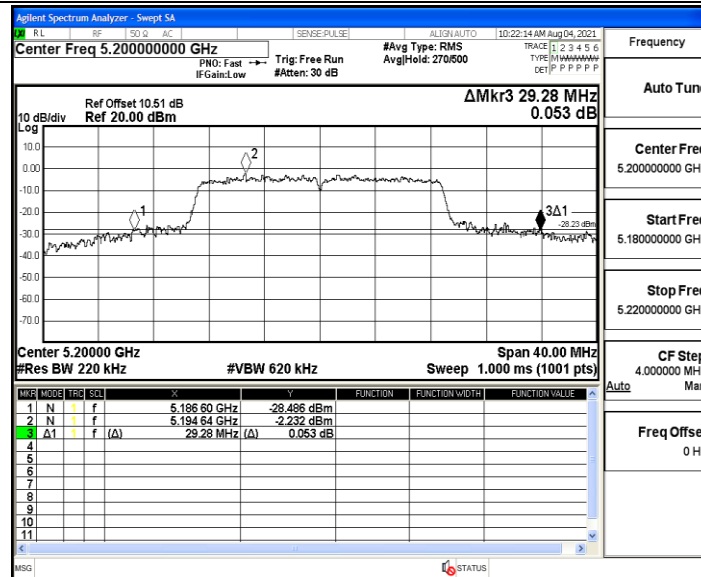
11N20MIMO_Ant2_5180



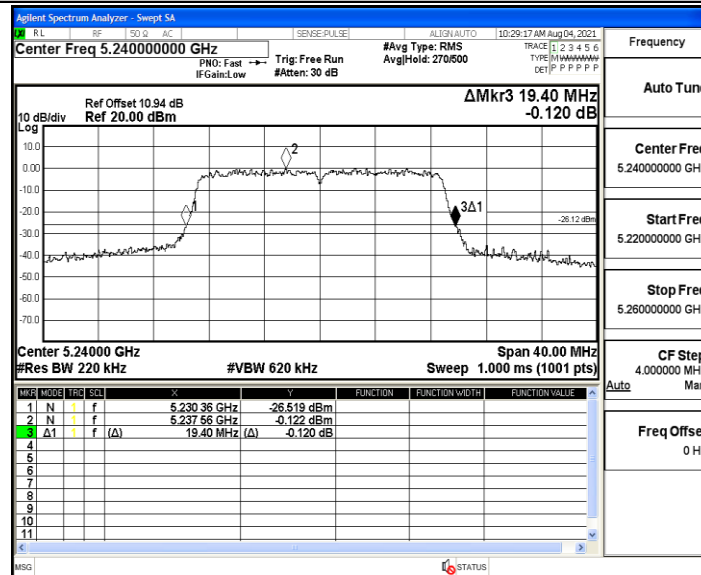
11N20MIMO_Ant1_5200



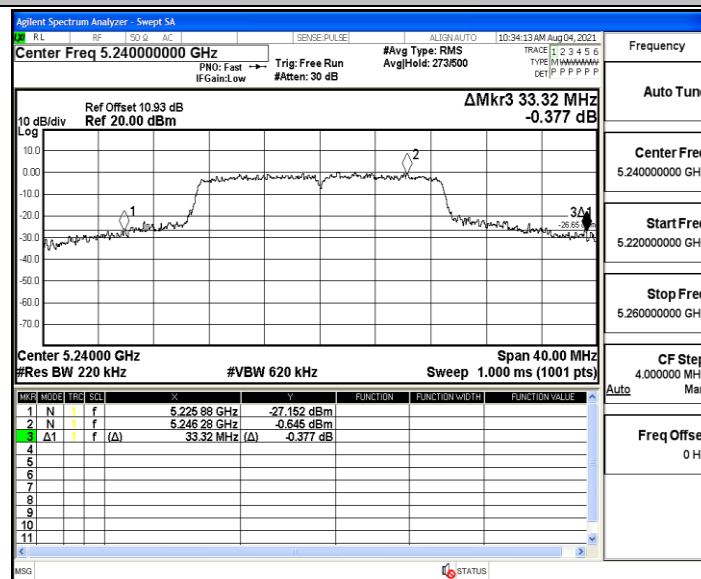
11N20MIMO_Ant2_5200



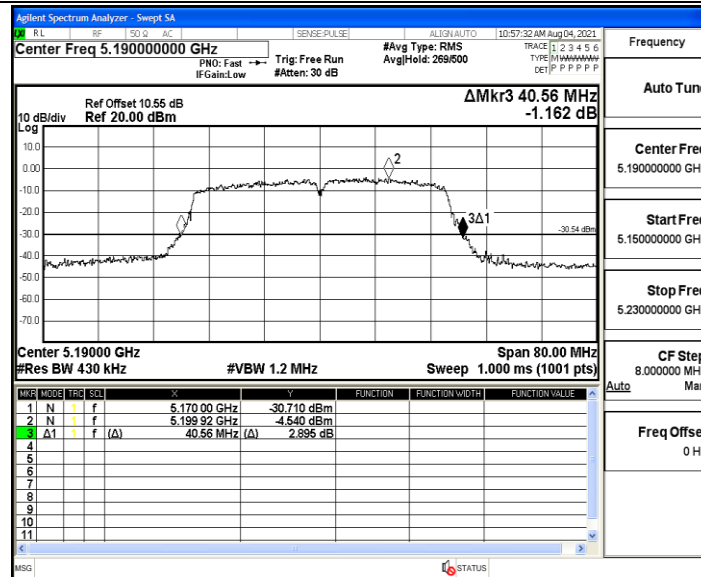
11N20MIMO_Ant1_5240



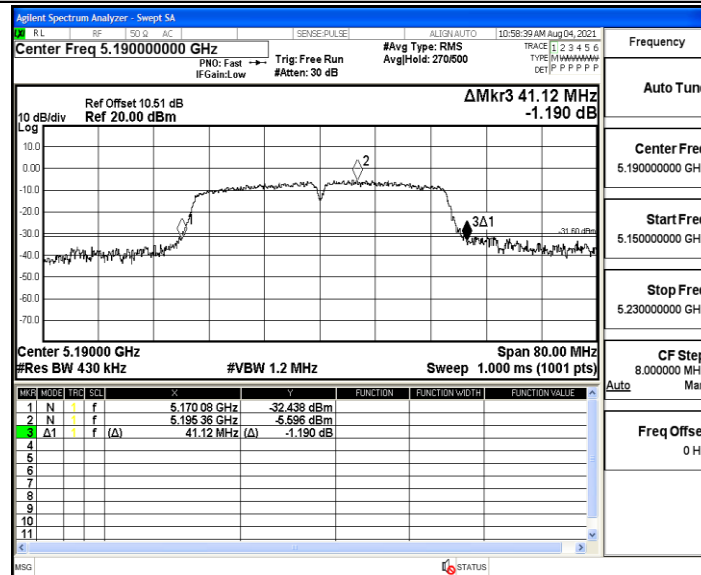
11N20MIMO_Ant2_5240



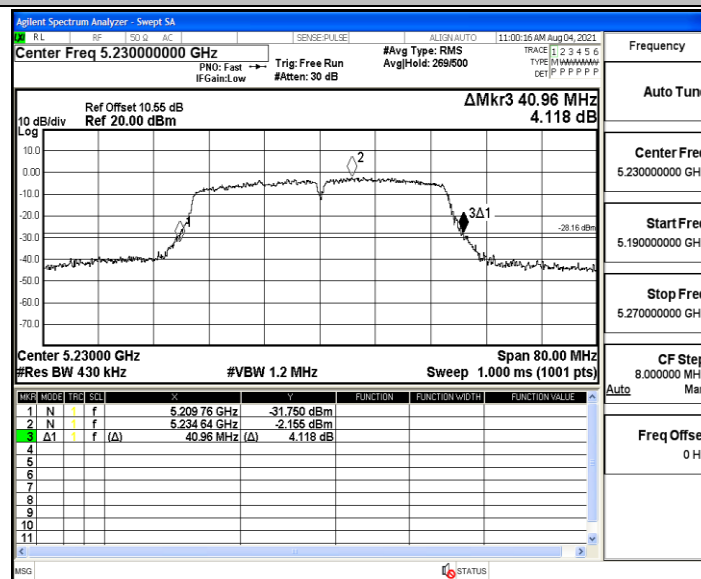
11N40MIMO_Ant1_5190



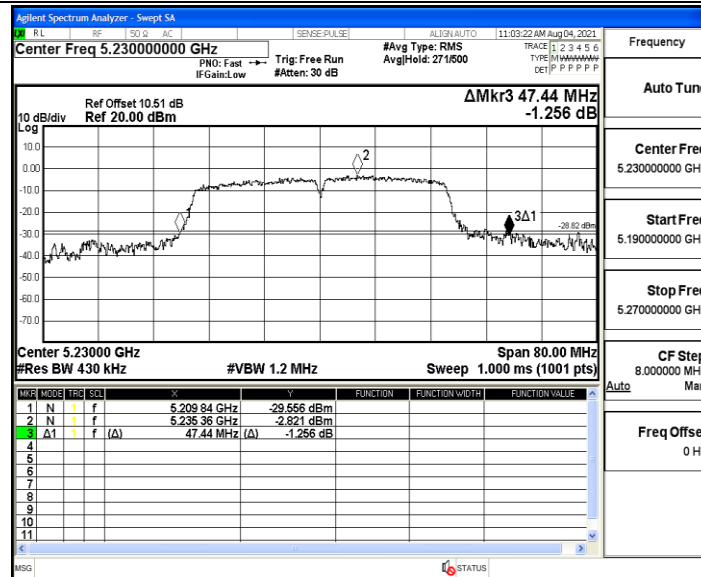
11N40MIMO_Ant2_5190



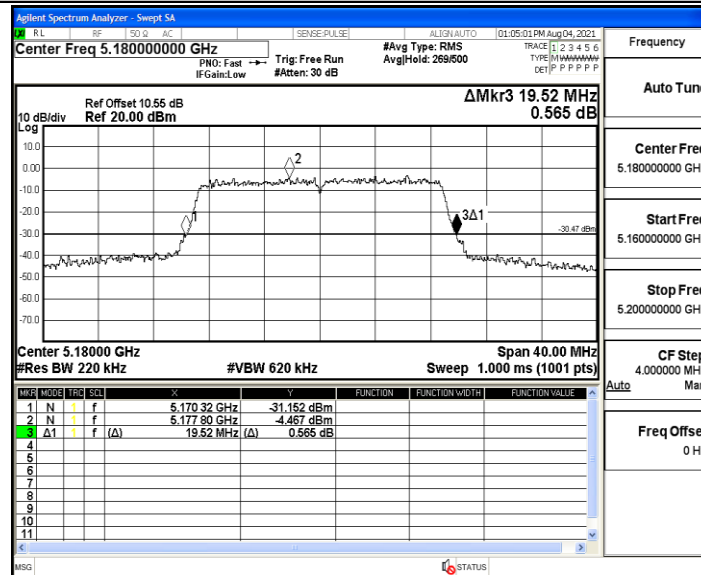
11N40MIMO_Ant1_5230



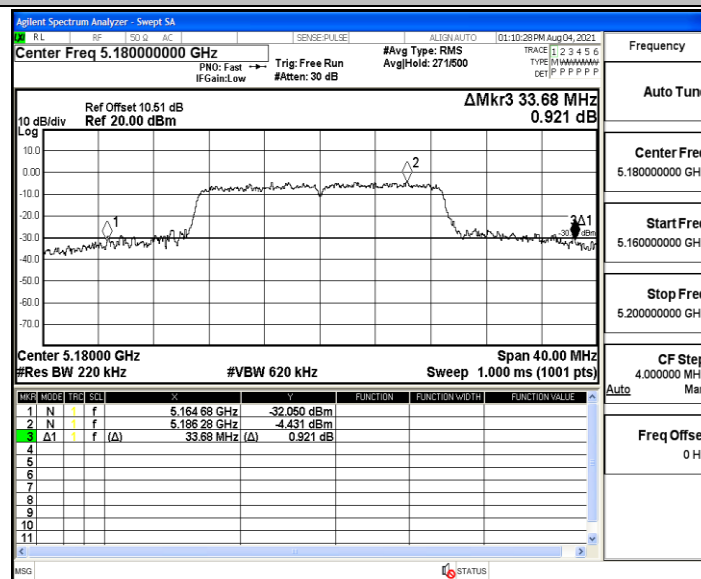
11N40MIMO_Ant2_5230



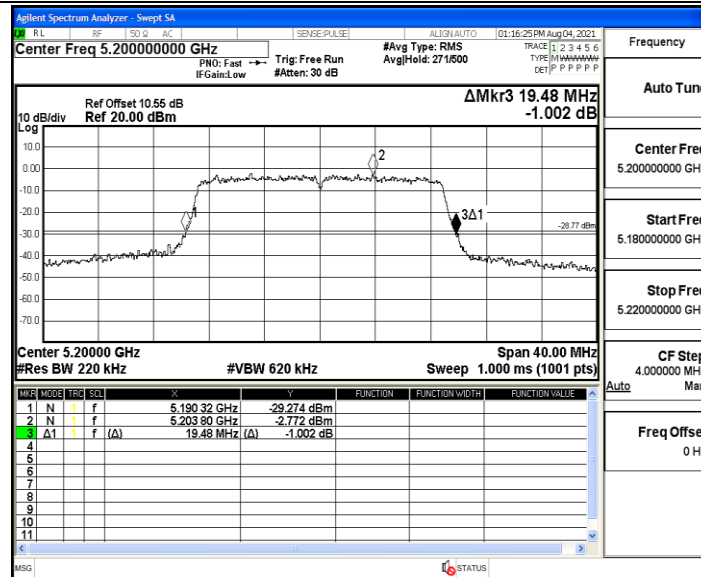
11AC20MIMO_Ant1_5180



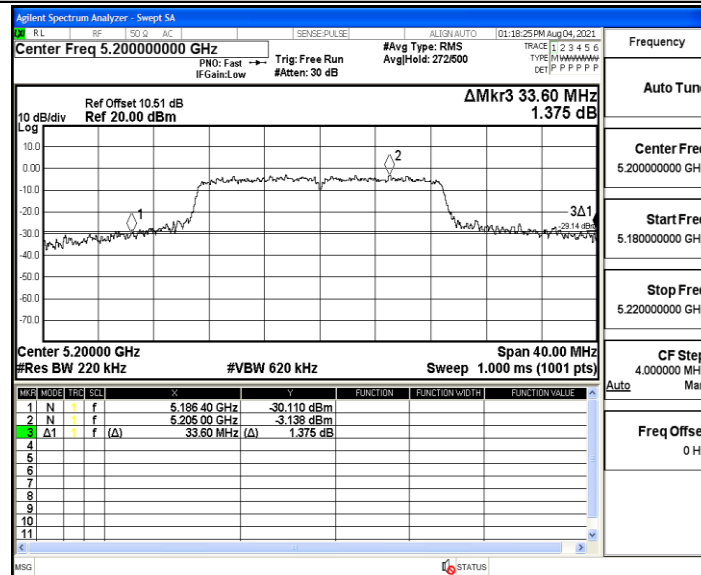
11AC20MIMO_Ant2_5180



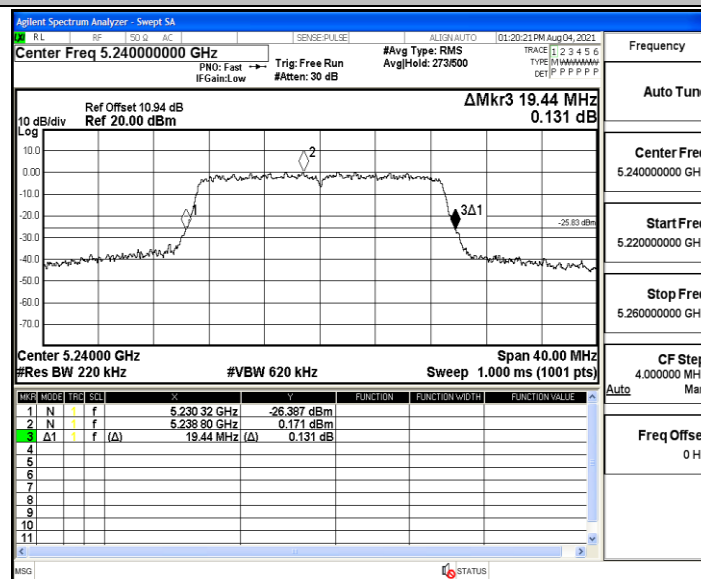
11AC20MIMO_Ant1_5200



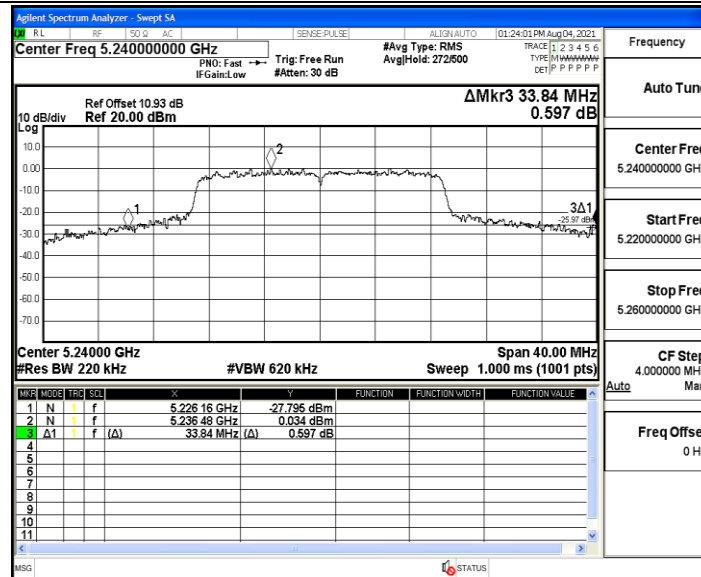
11AC20MIMO_Ant2_5200



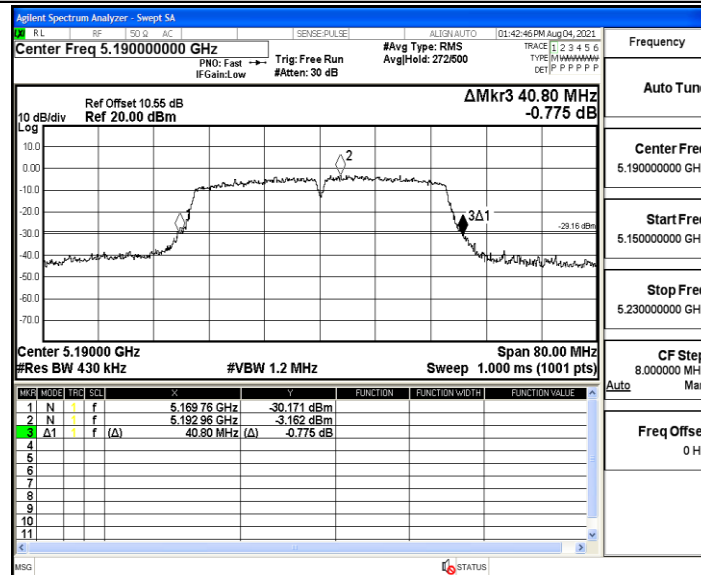
11AC20MIMO_Ant1_5240



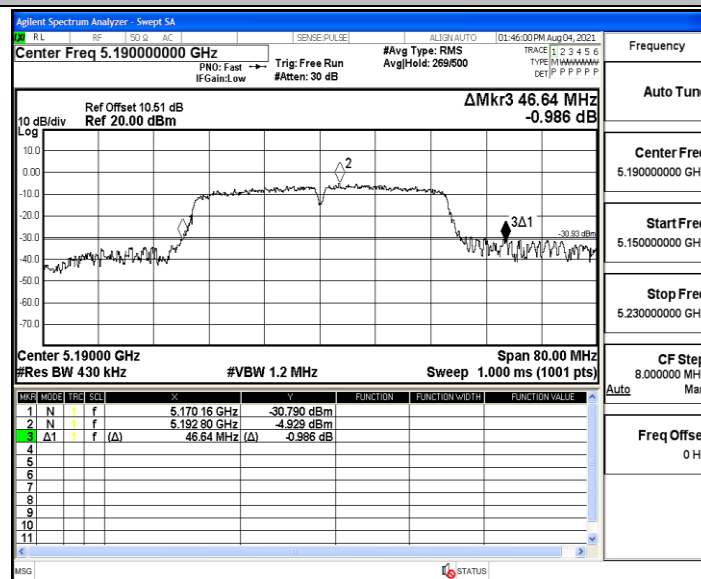
11AC20MIMO_Ant2_5240



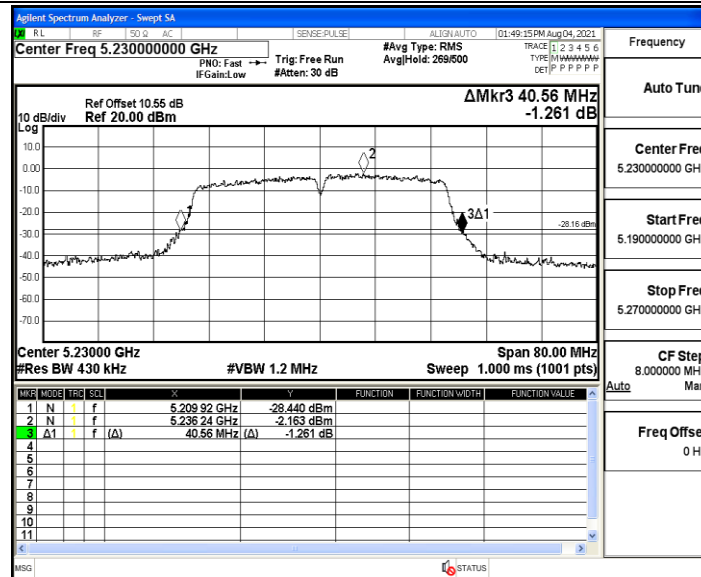
11AC40MIMO_Ant1_5190



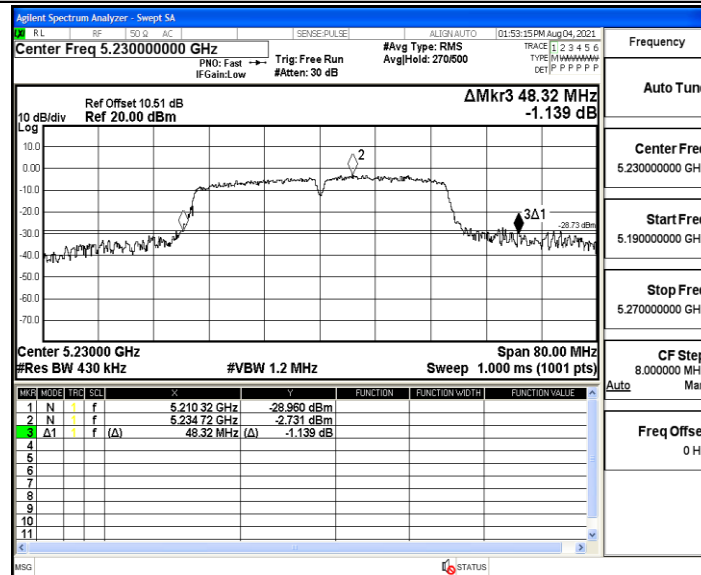
11AC40MIMO_Ant2_5190



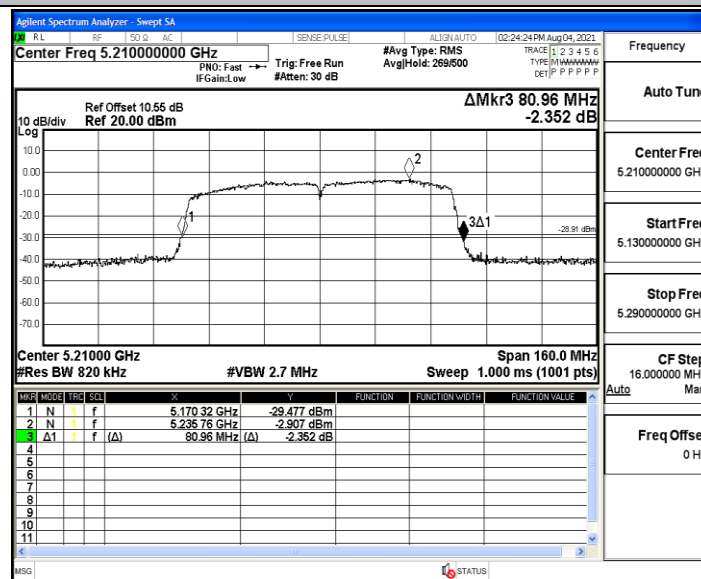
11AC40MIMO_Ant1_5230



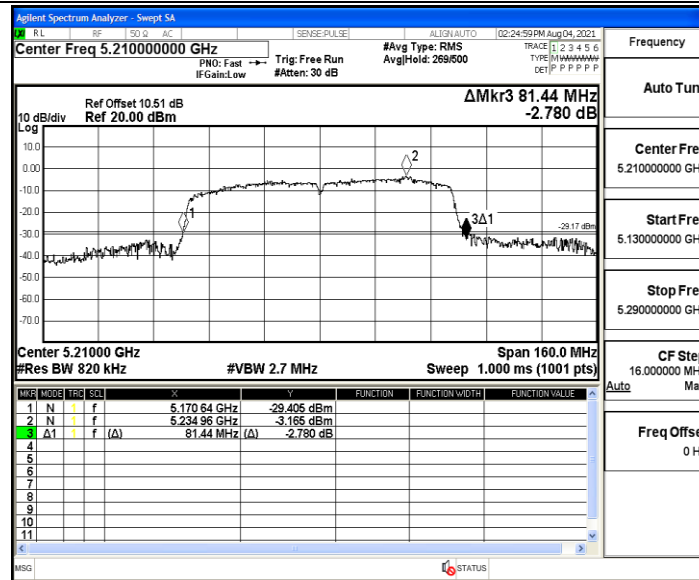
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



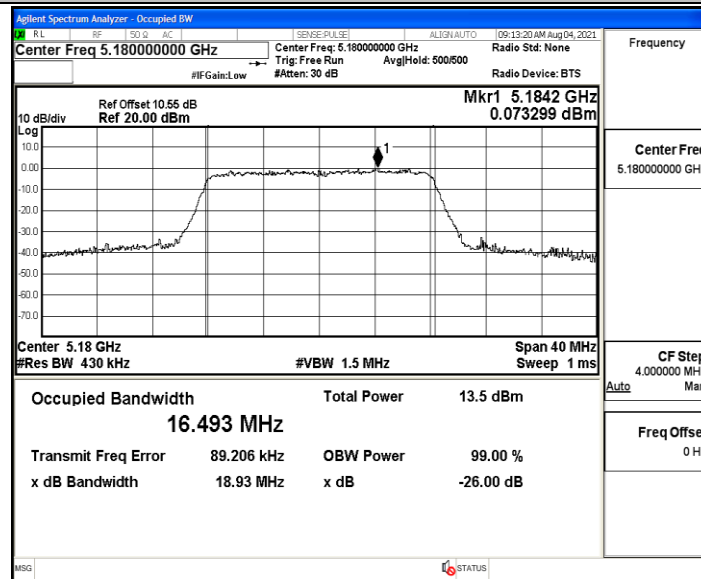
Appendix A2: Occupied channel bandwidth

Test Result

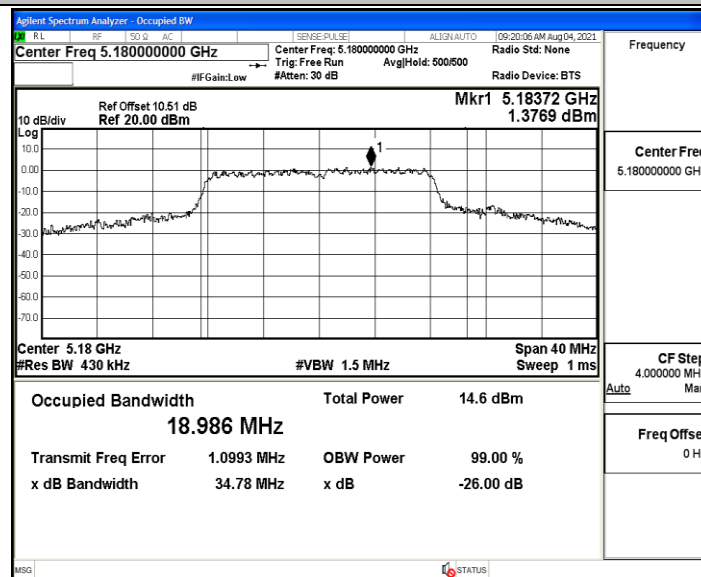
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.493	5171.843	5188.336	---	PASS
	Ant2	5180	18.986	5171.606	5190.592	---	PASS
	Ant1	5200	16.477	5191.806	5208.283	---	PASS
	Ant2	5200	16.994	5191.668	5208.662	---	PASS
	Ant1	5240	16.461	5231.830	5248.291	---	PASS
	Ant2	5240	17.333	5231.602	5248.935	---	PASS
11N20MIMO	Ant1	5180	17.657	5171.252	5188.909	---	PASS
	Ant2	5180	22.666	5170.585	5193.251	---	PASS
	Ant1	5200	17.631	5191.227	5208.858	---	PASS
	Ant2	5200	18.078	5191.096	5209.174	---	PASS
	Ant1	5240	17.605	5231.254	5248.859	---	PASS
	Ant2	5240	18.163	5231.090	5249.253	---	PASS
11N40MIMO	Ant1	5190	36.454	5172.031	5208.485	---	PASS
	Ant2	5190	37.067	5171.918	5208.985	---	PASS
	Ant1	5230	36.385	5212.135	5248.520	---	PASS
	Ant2	5230	36.732	5211.963	5248.695	---	PASS
11AC20MIMO	Ant1	5180	17.641	5171.268	5188.909	---	PASS
	Ant2	5180	18.142	5171.151	5189.293	---	PASS
	Ant1	5200	17.620	5191.231	5208.851	---	PASS
	Ant2	5200	18.124	5191.055	5209.179	---	PASS
	Ant1	5240	17.609	5231.249	5248.858	---	PASS
	Ant2	5240	18.162	5231.067	5249.229	---	PASS
11AC40MIMO	Ant1	5190	36.124	5172.160	5208.284	---	PASS
	Ant2	5190	36.694	5172.033	5208.727	---	PASS
	Ant1	5230	36.159	5212.165	5248.324	---	PASS
	Ant2	5230	36.557	5212.054	5248.611	---	PASS
11AC80MIMO	Ant1	5210	74.247	5173.676	5247.923	---	PASS
	Ant2	5210	87.273	5172.973	5260.246	---	PASS

Test Graphs

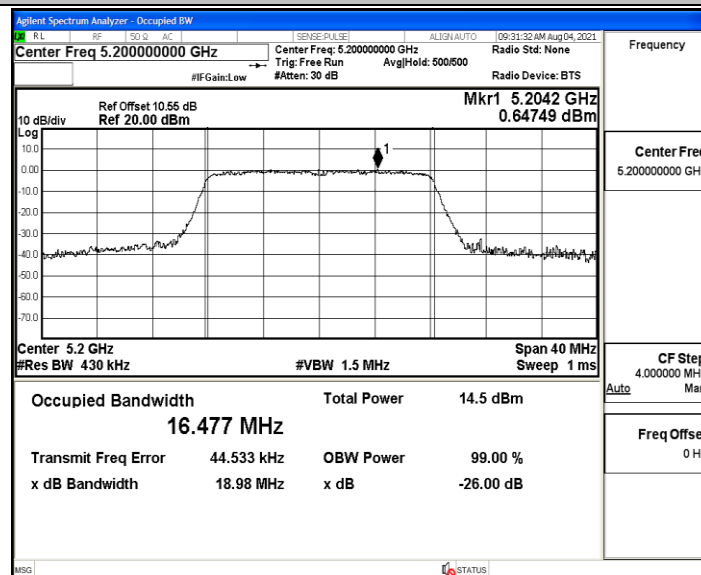
11A_Ant1_5180



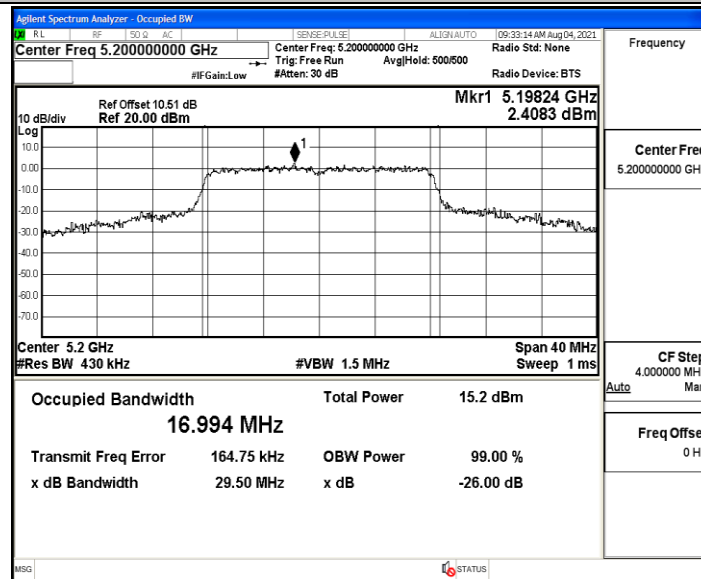
11A_Ant2_5180



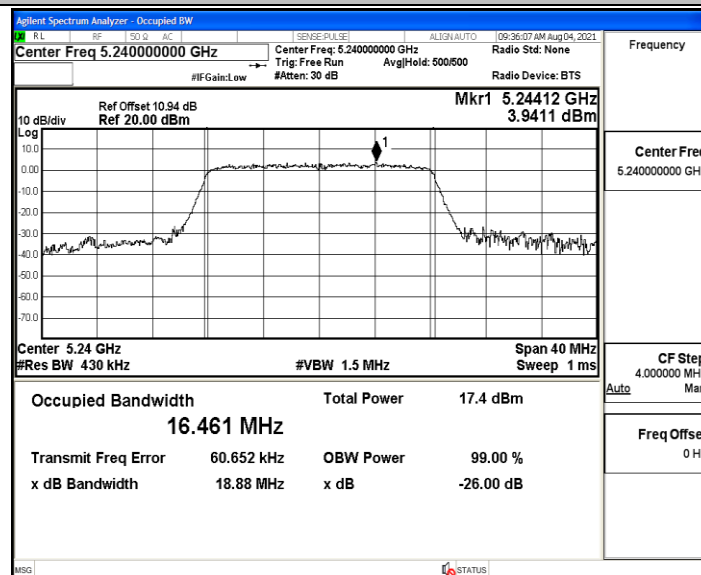
11A_Ant1_5200



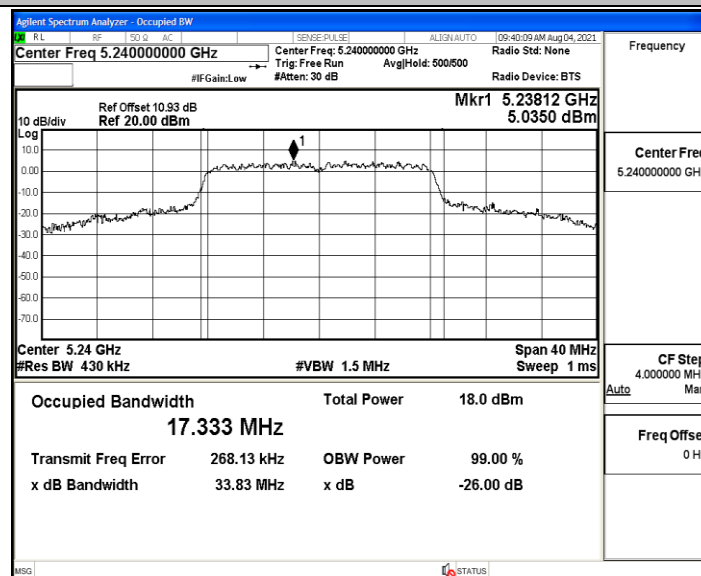
11A_Ant2_5200



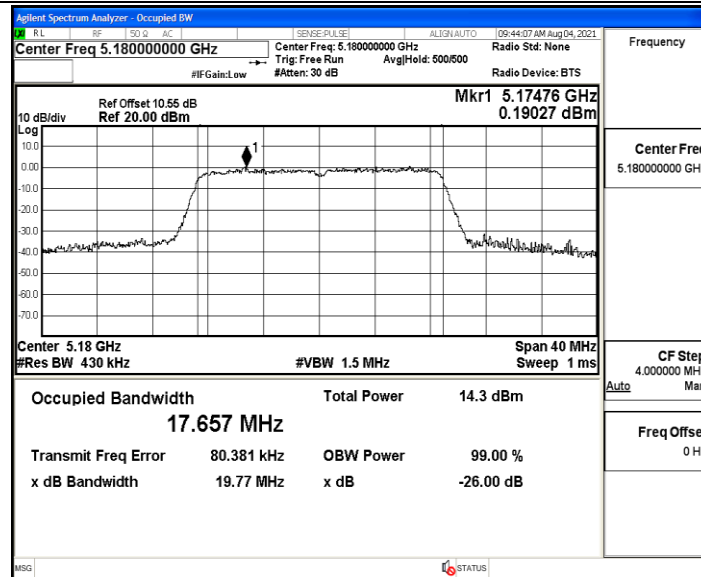
11A_Ant1_5240



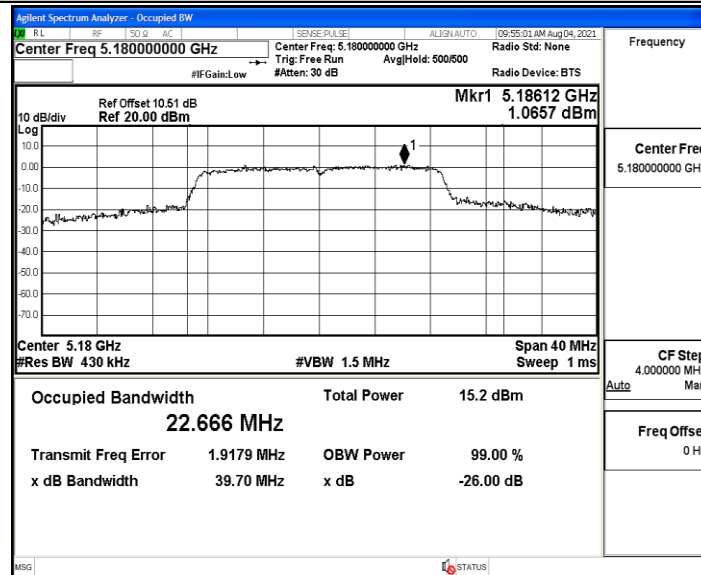
11A_Ant2_5240



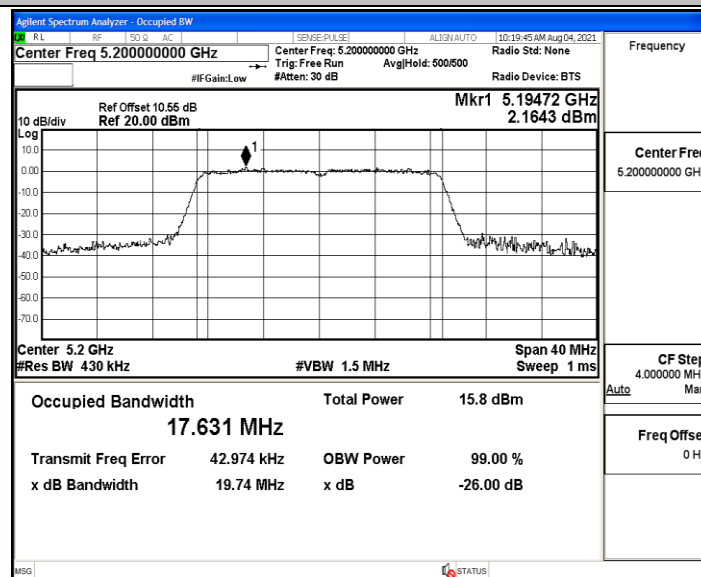
11N20MIMO_Ant1_5180



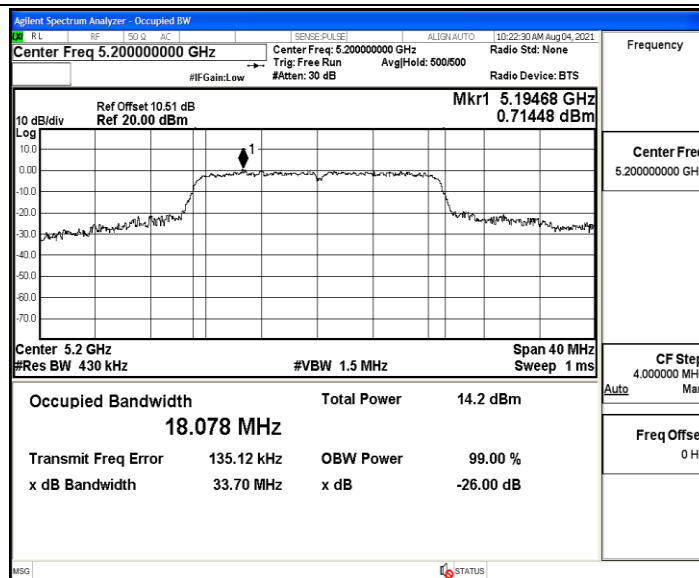
11N20MIMO_Ant2_5180



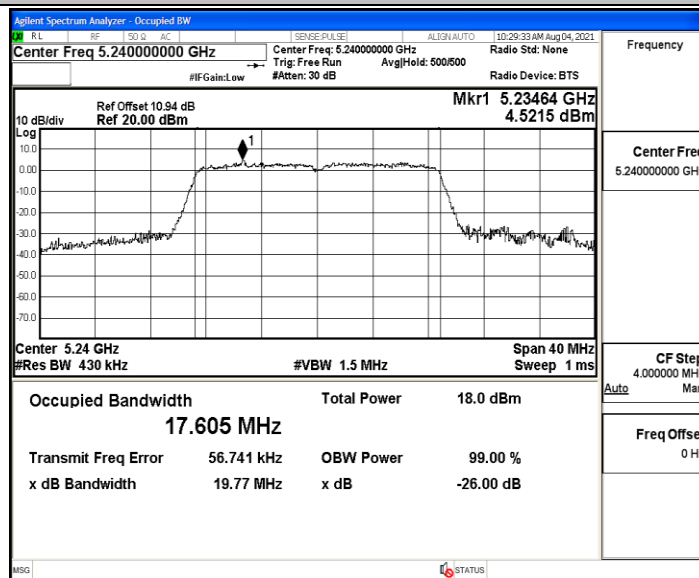
11N20MIMO_Ant1_5200



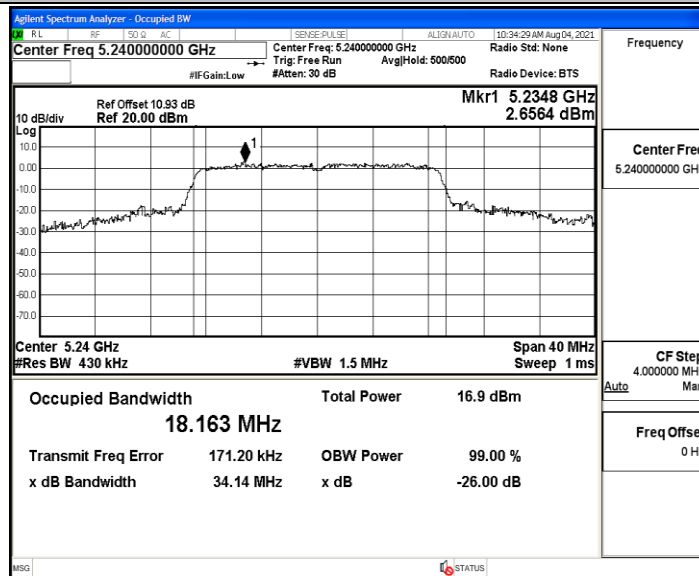
11N20MIMO_Ant2_5200



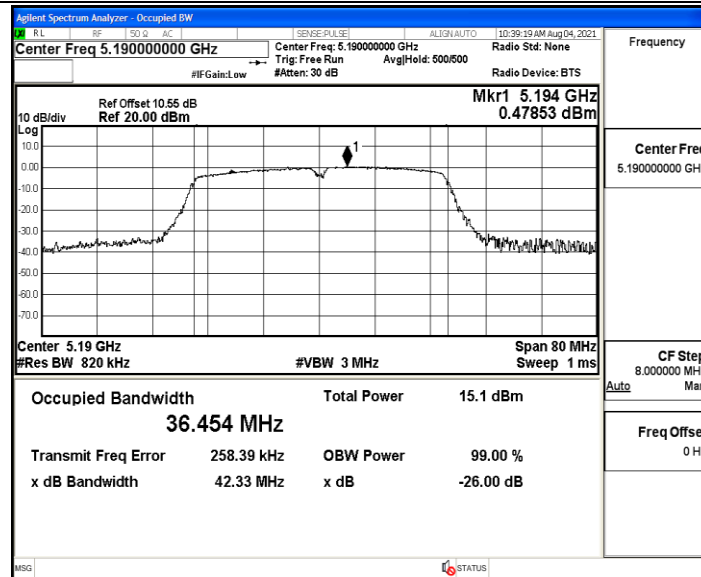
11N20MIMO_Ant1_5240



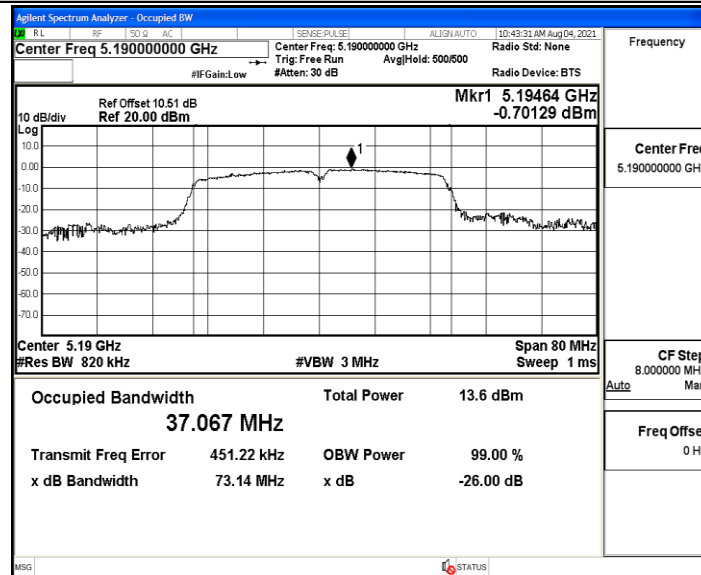
11N20MIMO_Ant2_5240



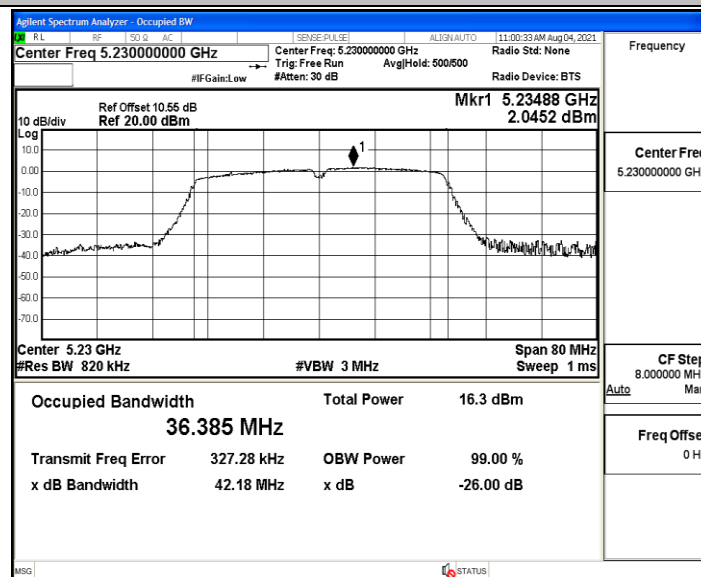
11N40MIMO_Ant1_5190



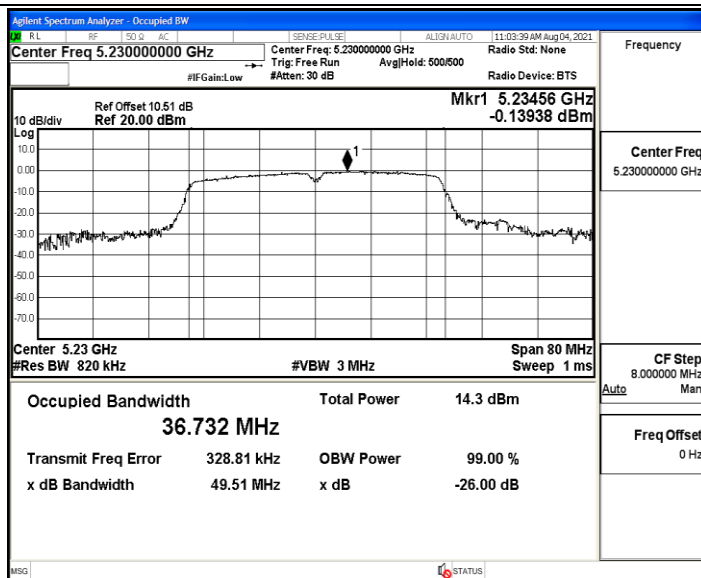
11N40MIMO_Ant2_5190



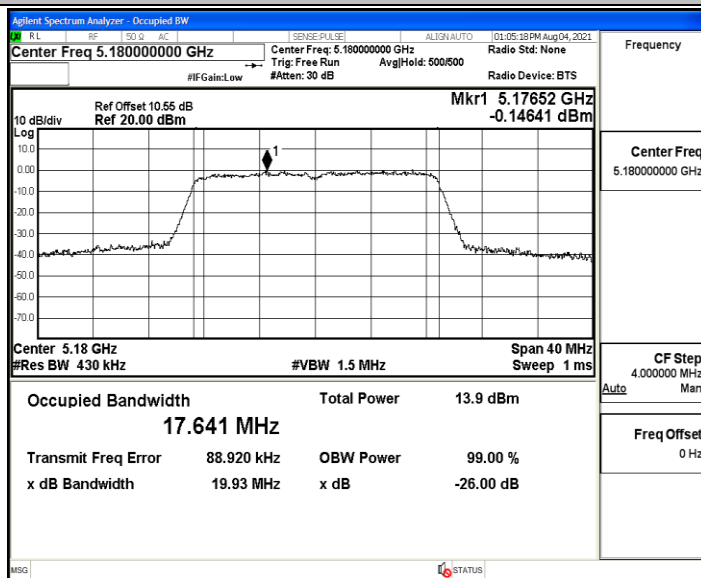
11N40MIMO_Ant1_5230



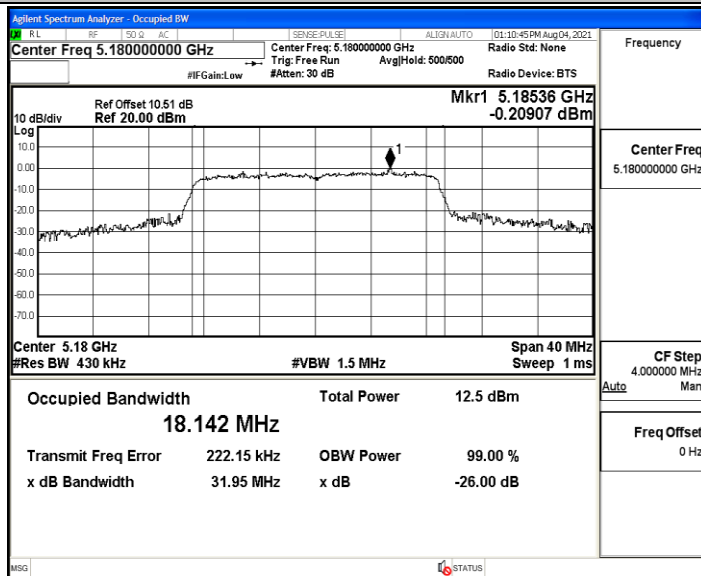
11N40MIMO_Ant2_5230



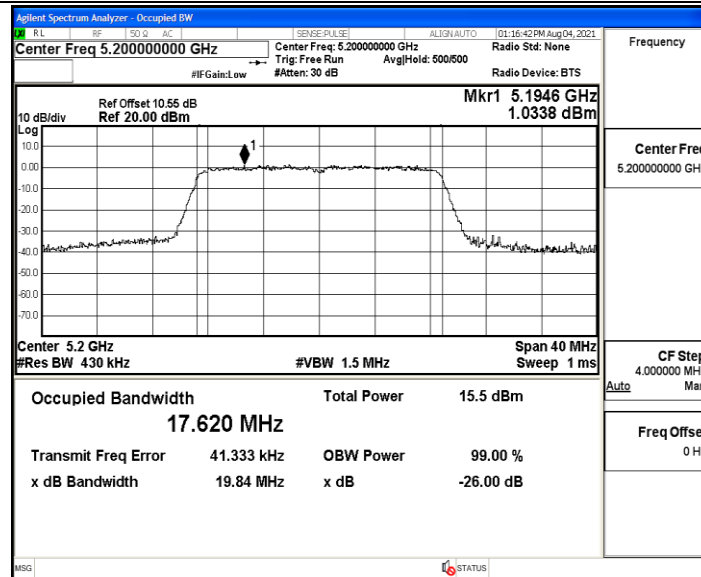
11AC20MIMO_Ant1_5180



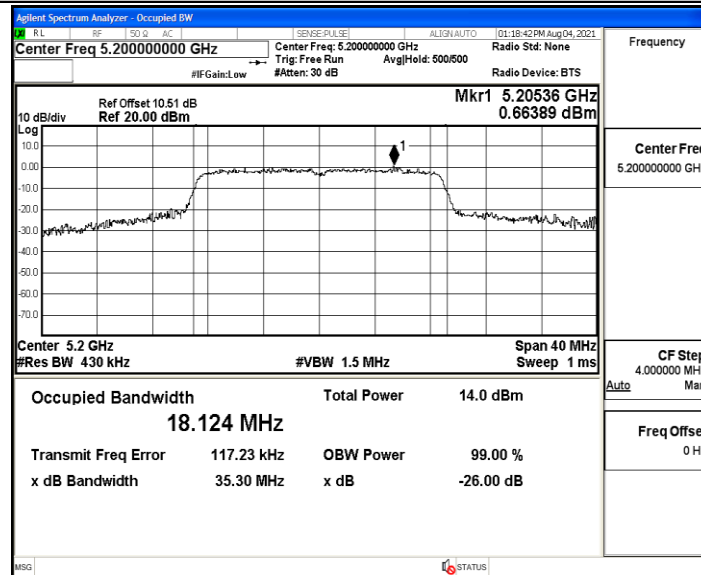
11AC20MIMO_Ant2_5180



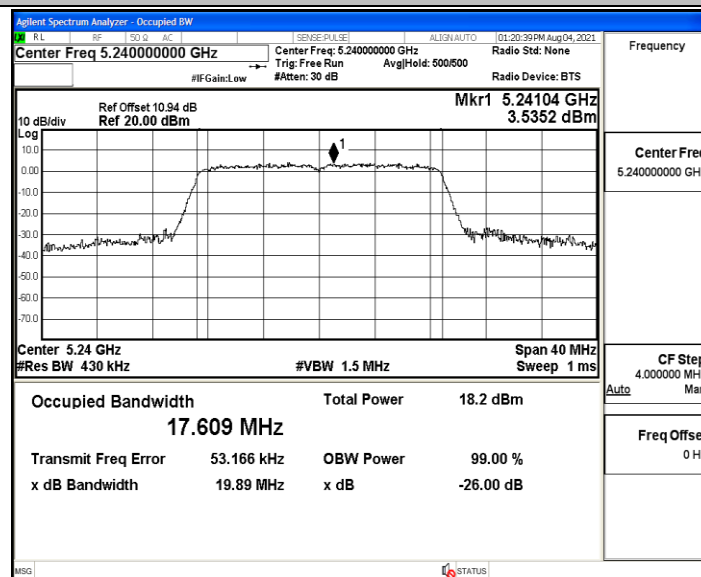
11AC20MIMO_Ant1_5200



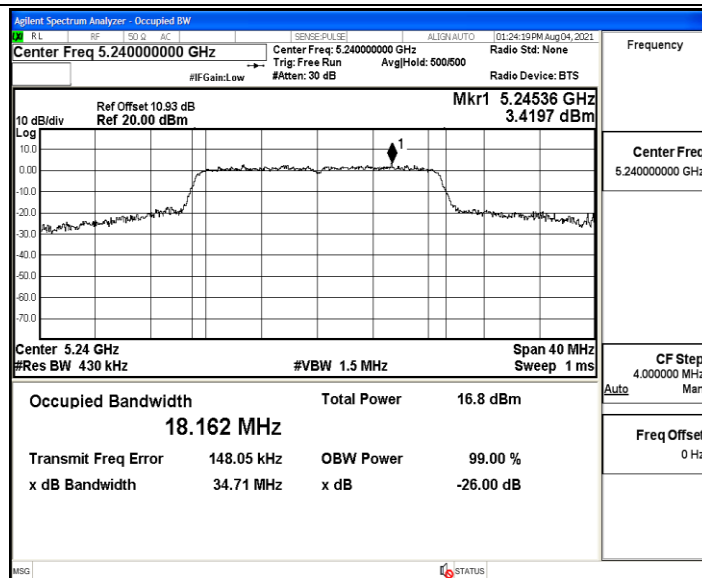
11AC20MIMO_Ant2_5200



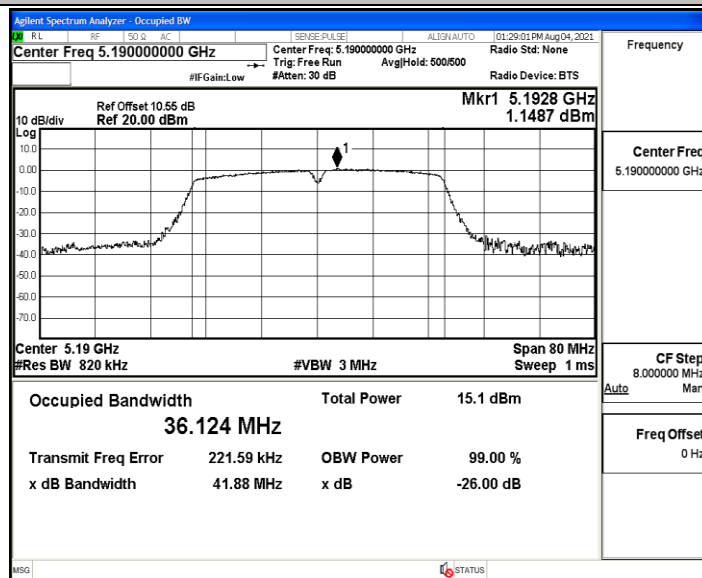
11AC20MIMO_Ant1_5240



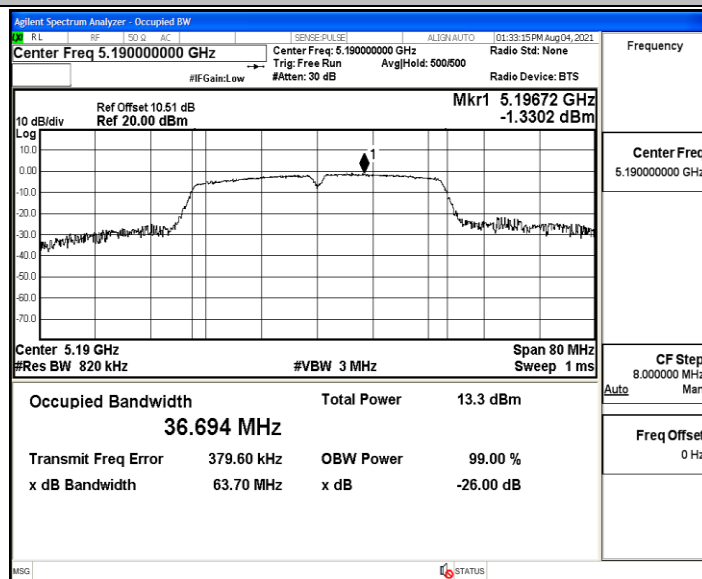
11AC20MIMO_Ant2_5240



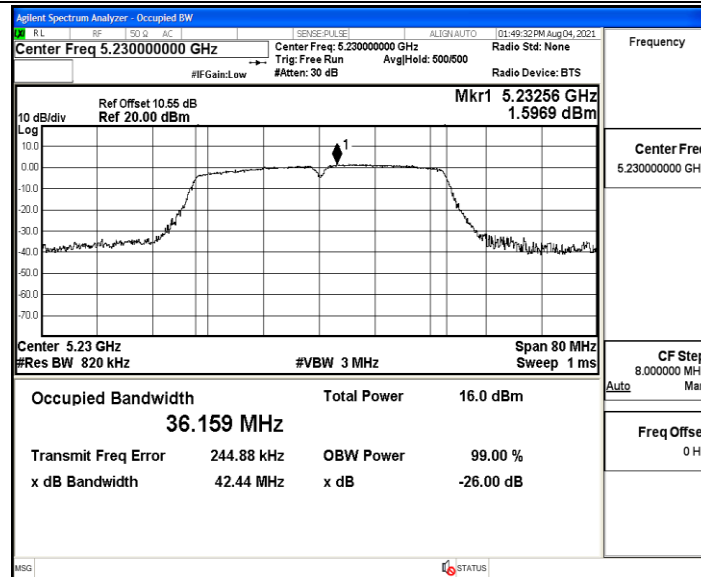
11AC40MIMO_Ant1_5190



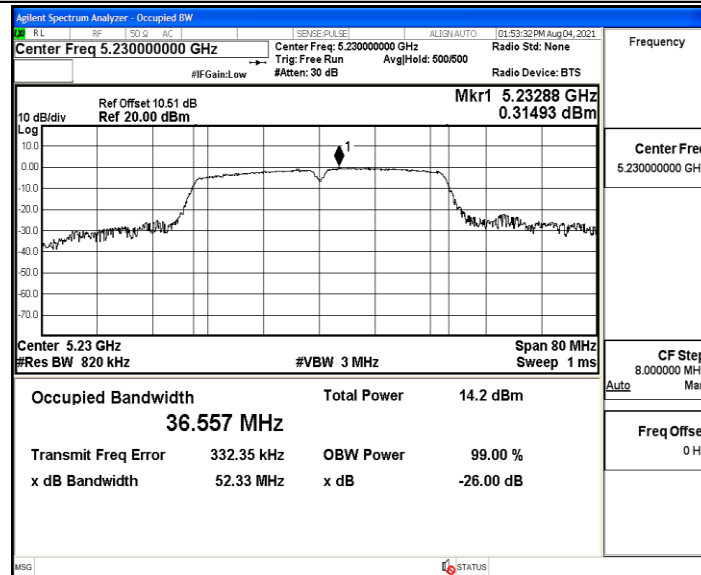
11AC40MIMO_Ant2_5190



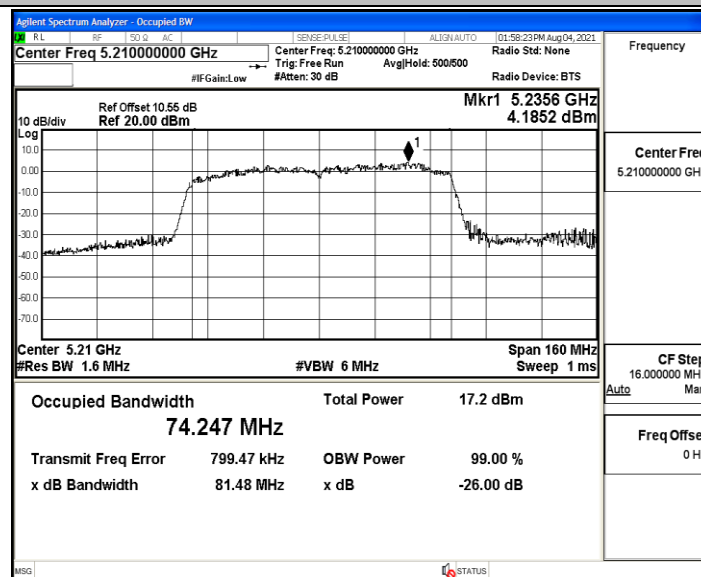
11AC40MIMO_Ant1_5230



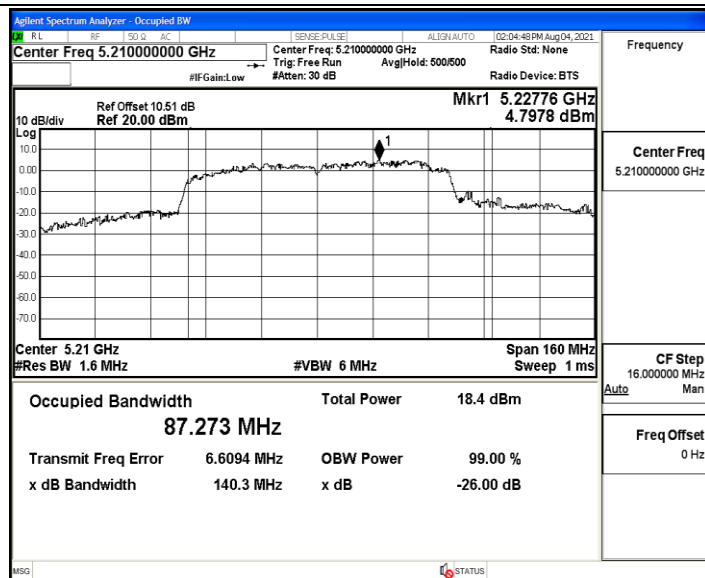
11AC40MIMO_Ant2_5230



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	6.84	≤23.98	PASS
	Ant2	5180	6.24	≤23.98	PASS
	Ant1	5200	8.21	≤23.98	PASS
	Ant2	5200	7.92	≤23.98	PASS
	Ant1	5240	10.76	≤23.98	PASS
	Ant2	5240	10.77	≤23.98	PASS
11N20MIMO	Ant1	5180	7.63	≤23.98	PASS
	Ant2	5180	5.88	≤23.98	PASS
	total	5180	9.9	≤23.98	PASS
	Ant1	5200	9.05	≤23.98	PASS
	Ant2	5200	7.36	≤23.98	PASS
	total	5200	11.3	≤23.98	PASS
	Ant1	5240	11.77	≤23.98	PASS
	Ant2	5240	10.16	≤23.98	PASS
	total	5240	14.0	≤23.98	PASS
11N40MIMO	Ant1	5190	6.63	≤23.98	PASS
	Ant2	5190	4.78	≤23.98	PASS
	total	5190	8.8	≤23.98	PASS
	Ant1	5230	8.99	≤23.98	PASS
	Ant2	5230	6.92	≤23.98	PASS
	total	5230	11.1	≤23.98	PASS
11AC20MIMO	Ant1	5180	7.51	≤23.98	PASS
	Ant2	5180	5.81	≤23.98	PASS
	total	5180	9.8	≤23.98	PASS
	Ant1	5200	9.26	≤23.98	PASS
	Ant2	5200	7.40	≤23.98	PASS
	total	5200	11.4	≤23.98	PASS
	Ant1	5240	11.98	≤23.98	PASS
	Ant2	5240	10.10	≤23.98	PASS
	total	5240	14.2	≤23.98	PASS
11AC40MIMO	Ant1	5190	7.24	≤23.98	PASS
	Ant2	5190	4.58	≤23.98	PASS
	total	5190	9.1	≤23.98	PASS
	Ant1	5230	9.14	≤23.98	PASS
	Ant2	5230	7.13	≤23.98	PASS
	total	5230	11.3	≤23.98	PASS
11AC80MIMO	Ant1	5210	6.78	≤23.98	PASS
	Ant2	5210	5.45	≤23.98	PASS
	total	5210	9.2	≤23.98	PASS

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

Appendix C: Maximum power spectral density

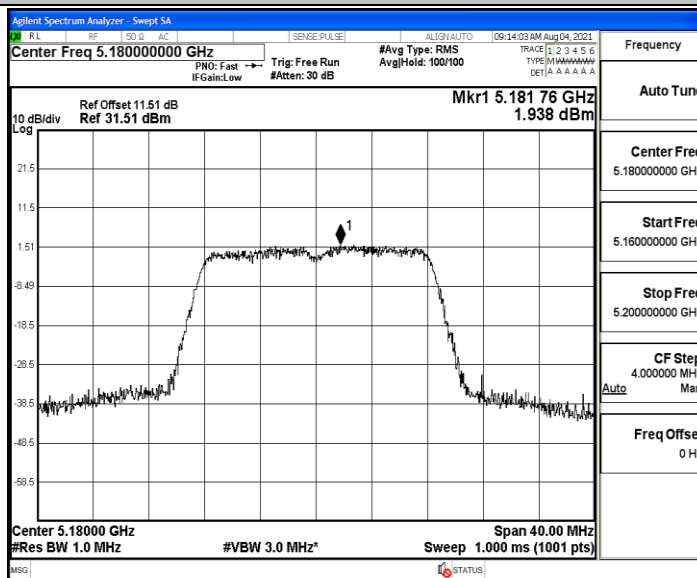
Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	1.94	≤11	PASS
	Ant2	5180	3.28	≤11	PASS
	Ant1	5200	4.31	≤11	PASS
	Ant2	5200	5.04	≤11	PASS
	Ant1	5240	6.3	≤11	PASS
	Ant2	5240	6.92	≤11	PASS
11N20MIMO	Ant1	5180	2.85	≤11	PASS
	Ant2	5180	0.93	≤11	PASS
	total	5180	5.01	≤11	PASS
	Ant1	5200	4.66	≤11	PASS
	Ant2	5200	2.52	≤11	PASS
	total	5200	6.73	≤11	PASS
	Ant1	5240	7.57	≤11	PASS
	Ant2	5240	5.49	≤11	PASS
	total	5240	9.66	≤11	PASS
11N40MIMO	Ant1	5190	0.12	≤11	PASS
	Ant2	5190	-1.86	≤11	PASS
	total	5190	2.25	≤11	PASS
	Ant1	5230	2.5	≤11	PASS
	Ant2	5230	0.93	≤11	PASS
	total	5230	4.80	≤11	PASS
11AC20MIMO	Ant1	5180	2.89	≤11	PASS
	Ant2	5180	1.28	≤11	PASS
	total	5180	5.17	≤11	PASS
	Ant1	5200	4.07	≤11	PASS
	Ant2	5200	2.53	≤11	PASS
	total	5200	6.38	≤11	PASS
	Ant1	5240	7.15	≤11	PASS
	Ant2	5240	5.32	≤11	PASS
	total	5240	9.34	≤11	PASS
11AC40MIMO	Ant1	5190	0.1	≤11	PASS
	Ant2	5190	-1.57	≤11	PASS
	total	5190	2.36	≤11	PASS
	Ant1	5230	2.47	≤11	PASS
	Ant2	5230	0.75	≤11	PASS
	total	5230	4.70	≤11	PASS
11AC80MIMO	Ant1	5210	-1.09	≤11	PASS
	Ant2	5210	-2.61	≤11	PASS
	total	5210	1.23	≤11	PASS

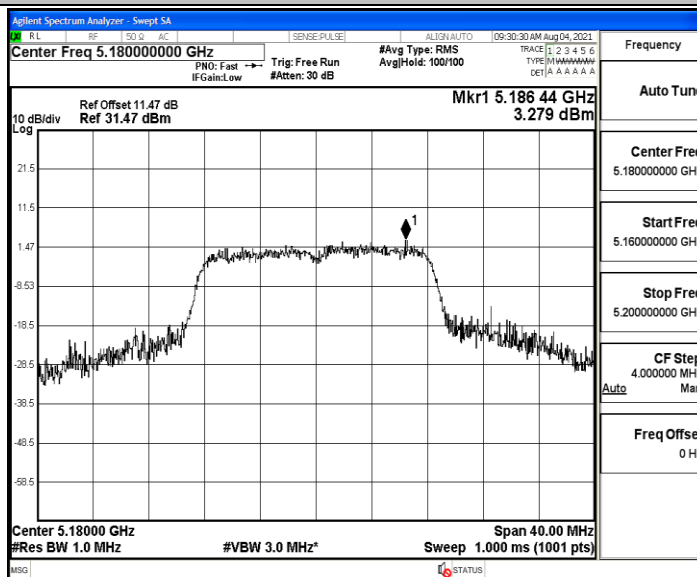
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

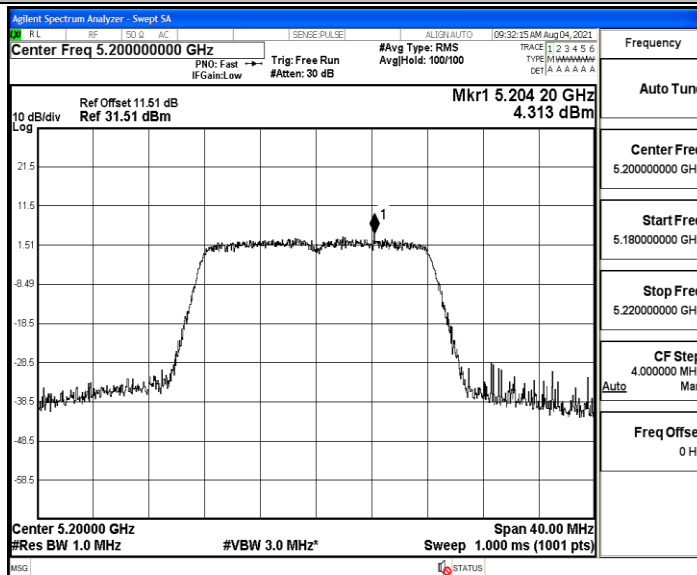
11A_Ant1_5180



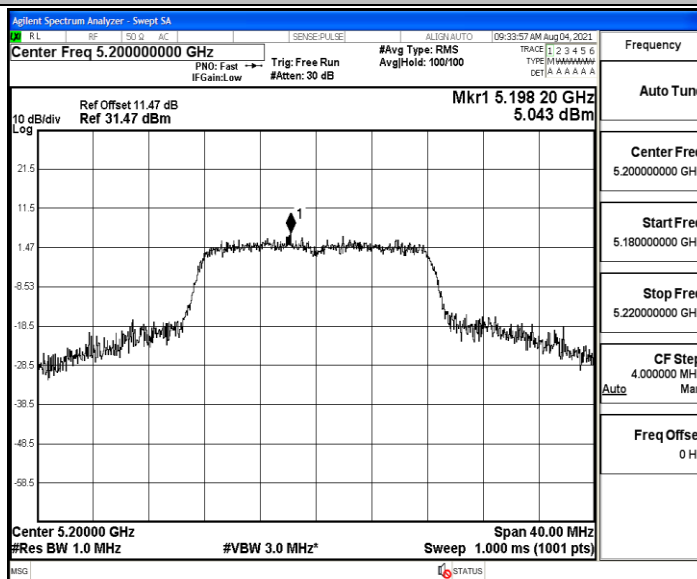
11A_Ant2_5180



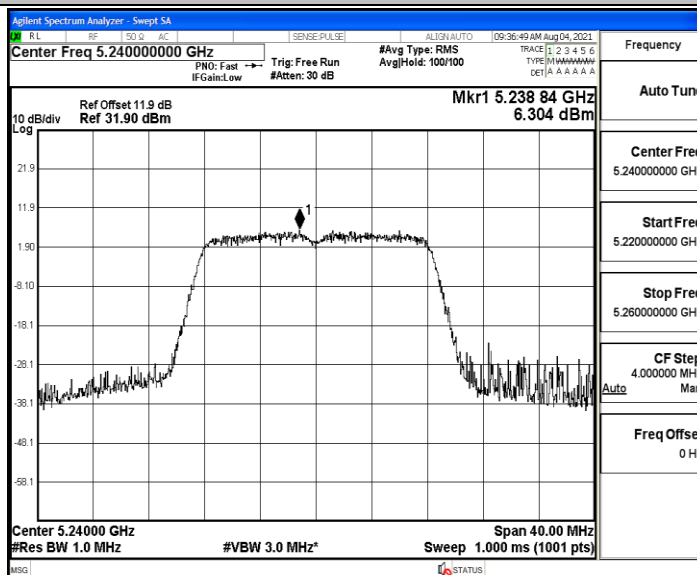
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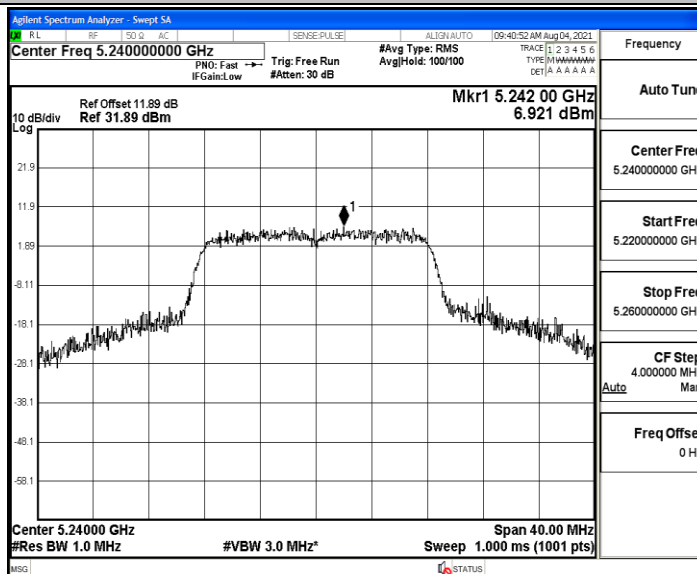
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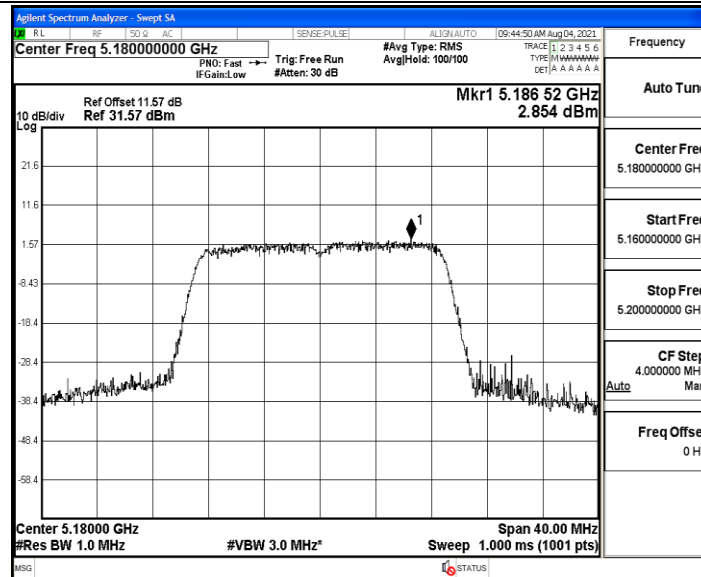
11A_Ant1_5240



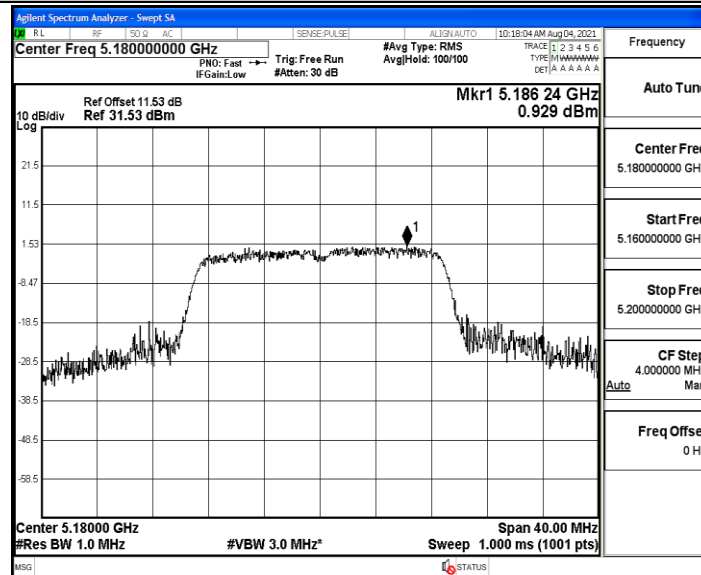
11A_Ant2_5240



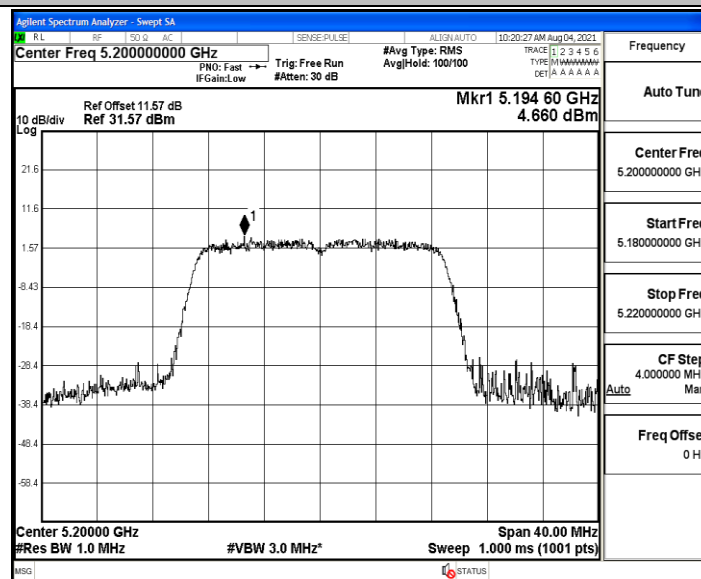
11N20MIMO_Ant1_5180



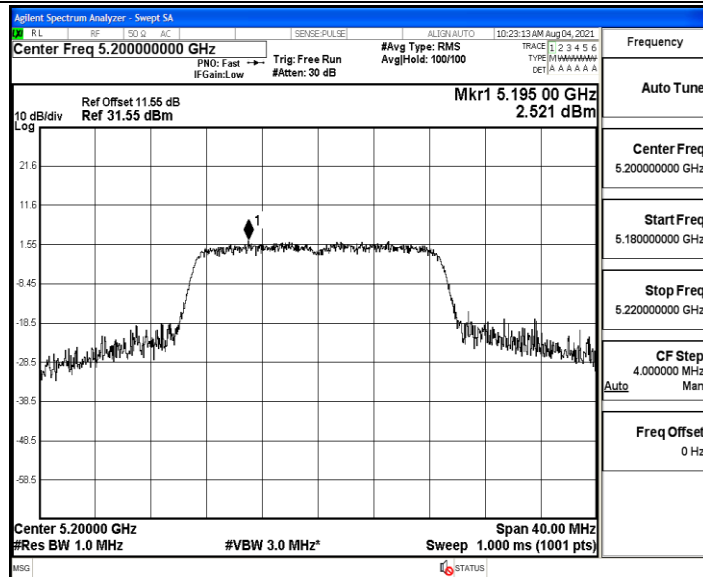
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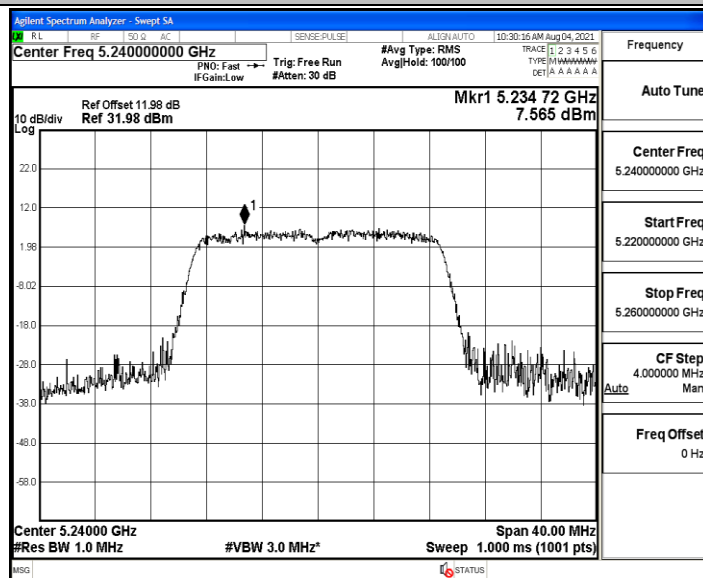
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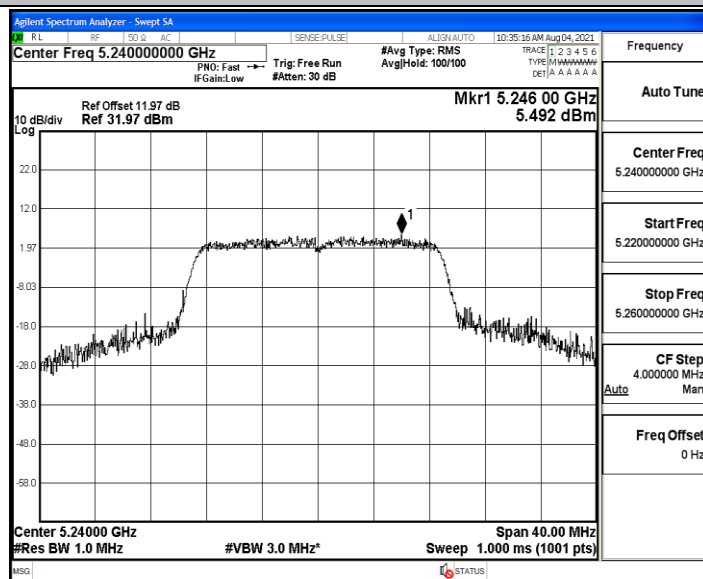
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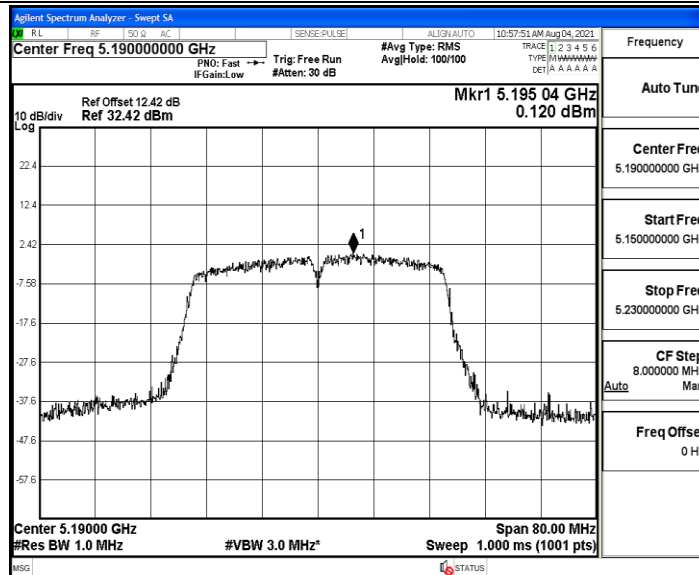
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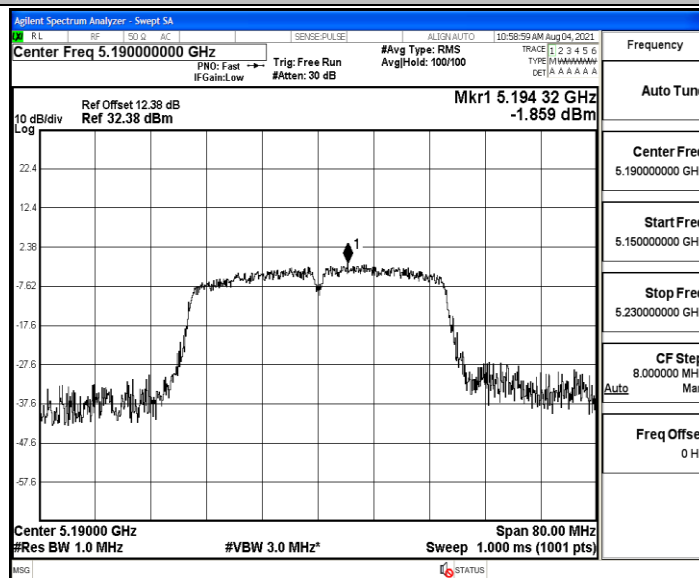
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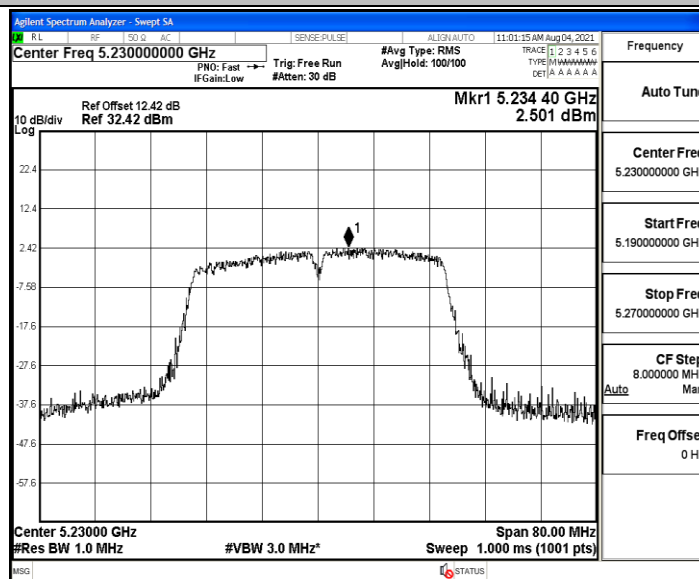
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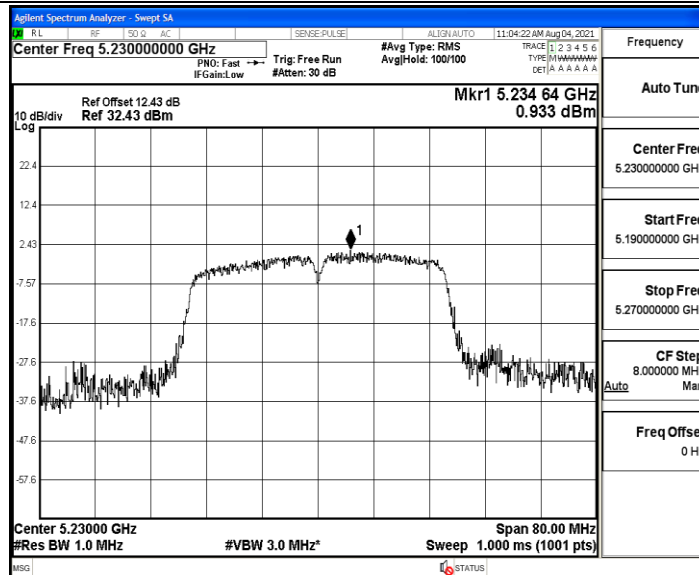
11N40MIMO_Ant2_5190



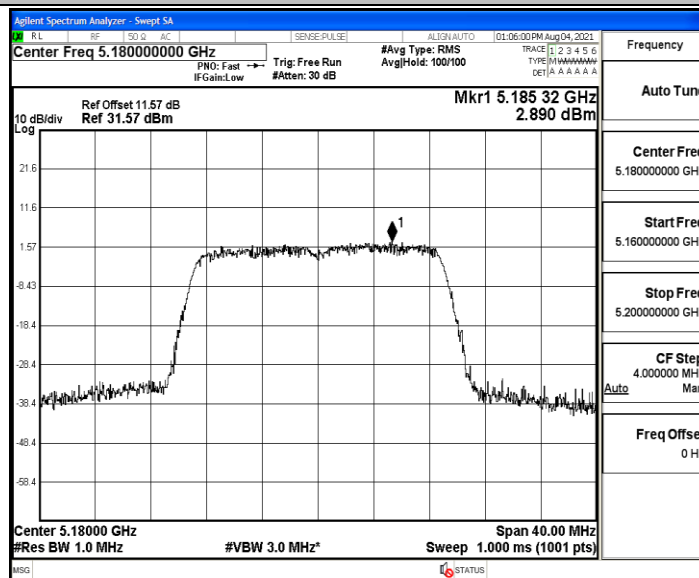
11N40MIMO_Ant1_5230



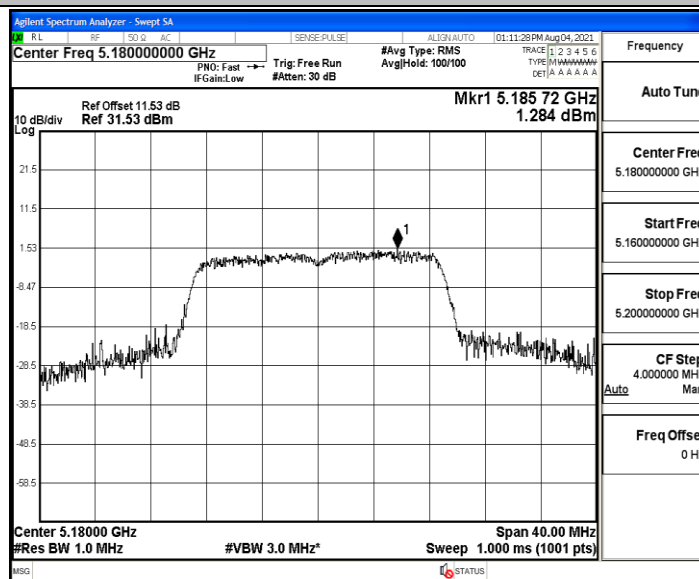
11N40MIMO_Ant2_5230



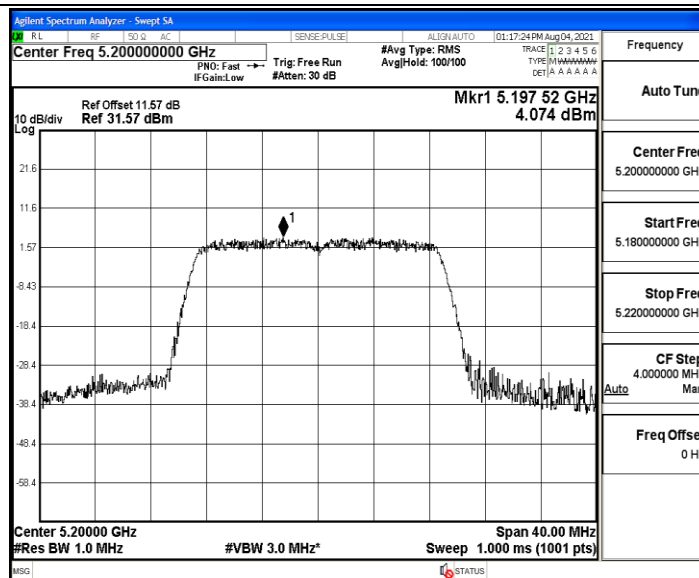
11AC20MIMO_Ant1_5180



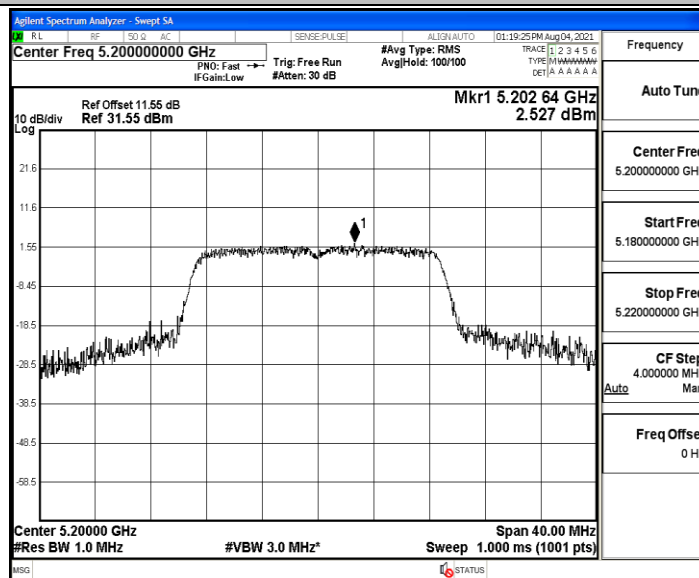
11AC20MIMO_Ant2_5180



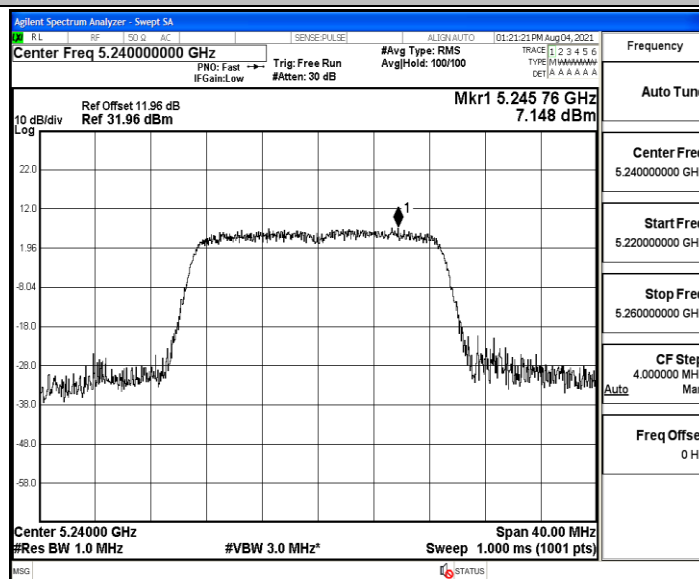
11AC20MIMO_Ant1_5200



11AC20MIMO_Ant2_5200



11AC20MIMO_Ant1_5240



11AC20MIMO_Ant2_5240