

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

Product Name: 4K HDMI Dongle

Trade Mark: N/A

Test Model: SN8BKCB

FCC ID: 2AOVU-SN8BKCX

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

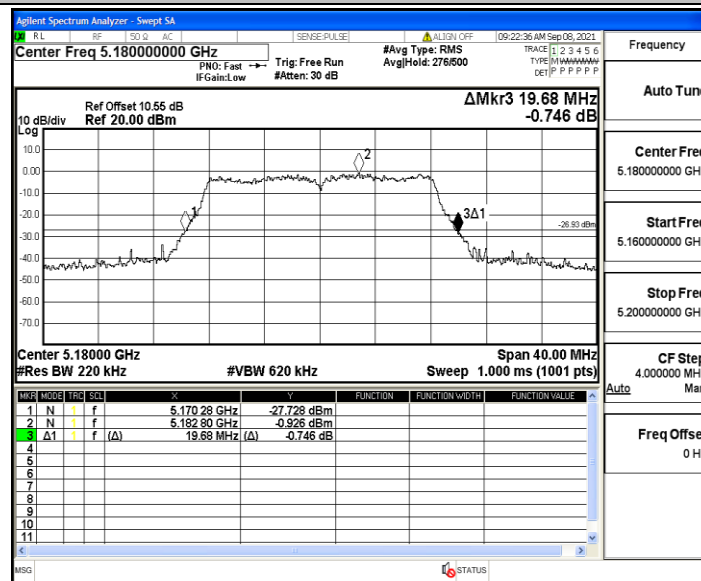
Appendix A1: Emission Bandwidth

Test Result

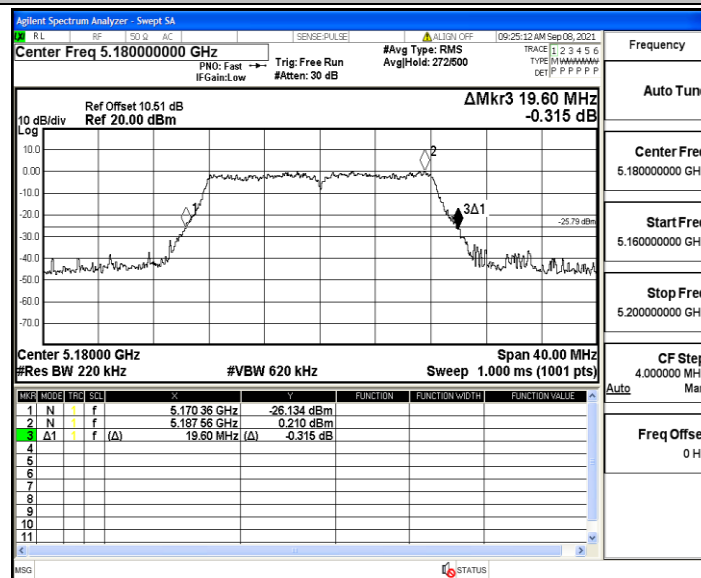
TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.680	5170.280	5189.960	---	PASS
	Ant2	5180	19.600	5170.360	5189.960	---	PASS
	Ant1	5200	19.680	5190.120	5209.800	---	PASS
	Ant2	5200	19.640	5190.040	5209.680	---	PASS
	Ant1	5240	19.600	5230.360	5249.960	---	PASS
	Ant2	5240	19.720	5230.240	5249.960	---	PASS
11N20MIMO	Ant1	5180	20.160	5169.920	5190.080	---	PASS
	Ant2	5180	20.040	5170.120	5190.160	---	PASS
	Ant1	5200	20.000	5190.040	5210.040	---	PASS
	Ant2	5200	20.000	5190.000	5210.000	---	PASS
	Ant1	5240	20.040	5230.120	5250.160	---	PASS
	Ant2	5240	20.120	5229.960	5250.080	---	PASS
11N40MIMO	Ant1	5190	39.840	5170.240	5210.080	---	PASS
	Ant2	5190	40.400	5169.680	5210.080	---	PASS
	Ant1	5230	39.840	5210.240	5250.080	---	PASS
	Ant2	5230	40.560	5209.760	5250.320	---	PASS
11AC20MIMO	Ant1	5180	20.000	5170.160	5190.160	---	PASS
	Ant2	5180	20.040	5170.120	5190.160	---	PASS
	Ant1	5200	20.040	5190.000	5210.040	---	PASS
	Ant2	5200	19.920	5190.040	5209.960	---	PASS
	Ant1	5240	20.000	5230.000	5250.000	---	PASS
	Ant2	5240	20.200	5230.040	5250.240	---	PASS
11AC40MIMO	Ant1	5190	39.920	5170.160	5210.080	---	PASS
	Ant2	5190	40.320	5170.000	5210.320	---	PASS
	Ant1	5230	39.680	5210.240	5249.920	---	PASS
	Ant2	5230	40.560	5209.680	5250.240	---	PASS
11AC80MIMO	Ant1	5210	80.800	5169.840	5250.640	---	PASS
	Ant2	5210	81.280	5169.520	5250.800	---	PASS

Test Graphs

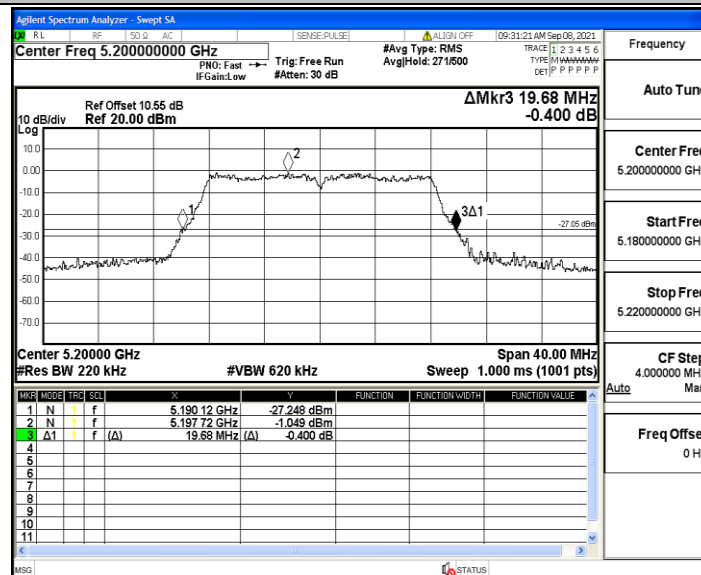
11A_Ant1_5180



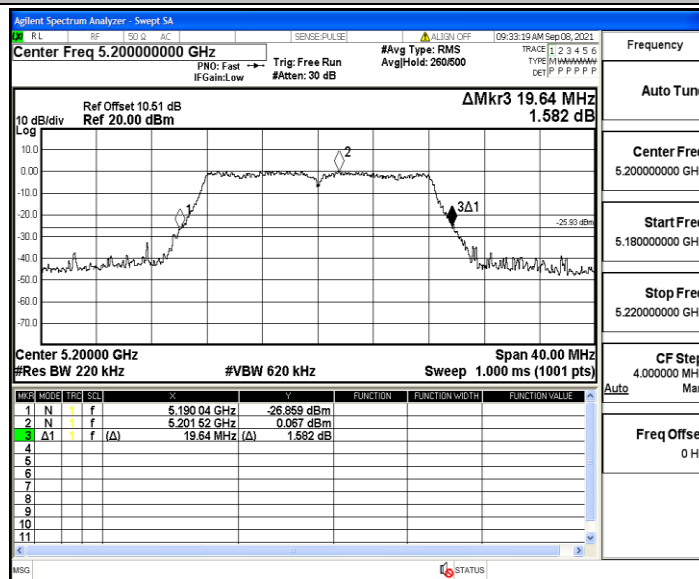
11A_Ant2_5180



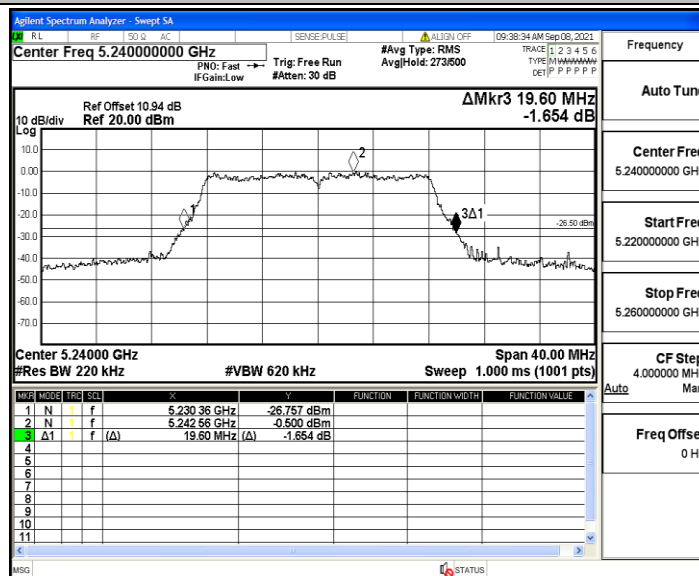
11A_Ant1_5200



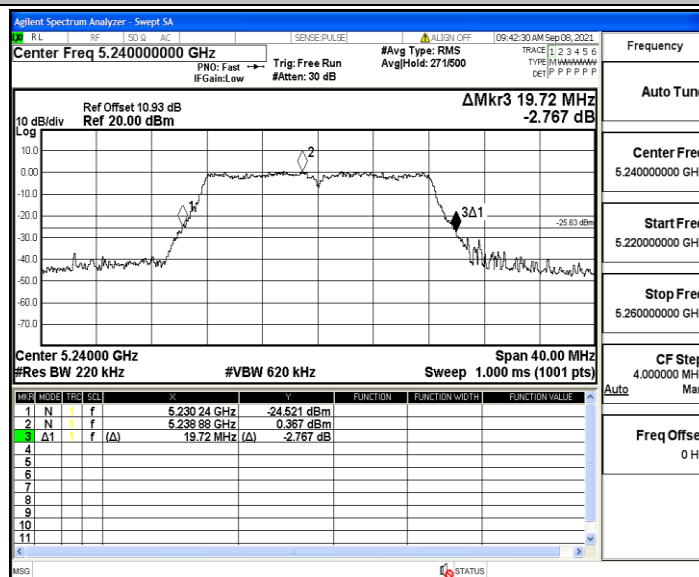
11A_Ant2_5200



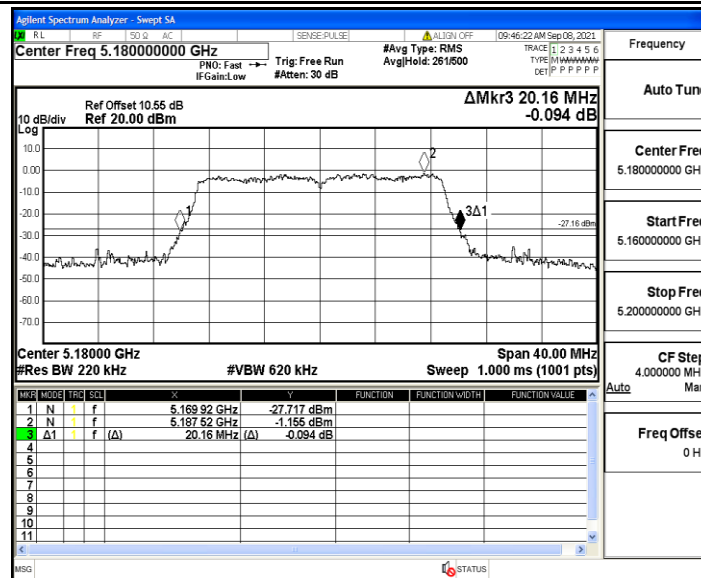
11A_Ant1_5240



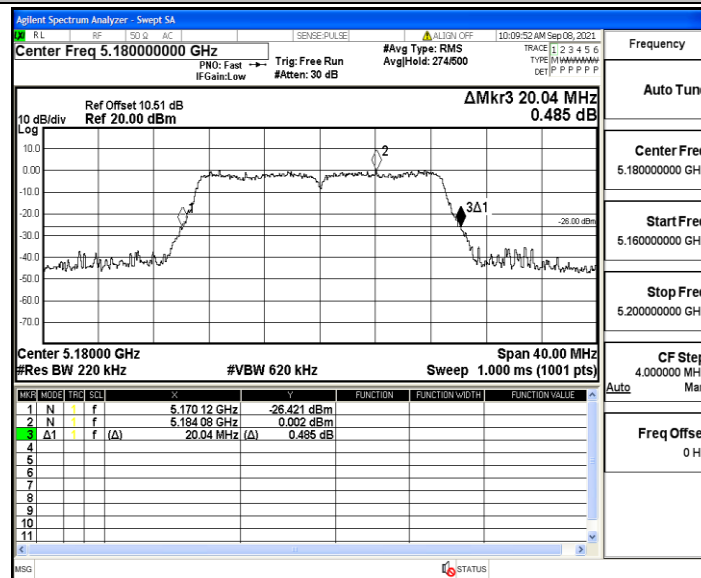
11A_Ant2_5240



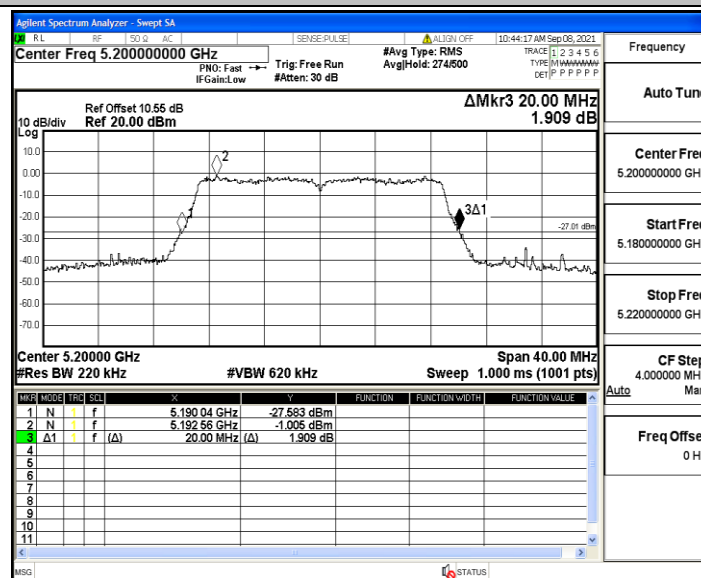
11N20MIMO_Ant1_5180



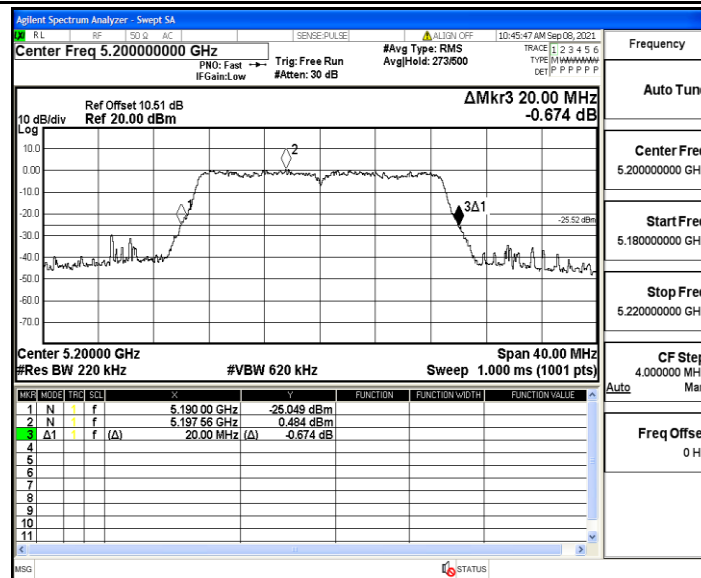
11N20MIMO_Ant2_5180



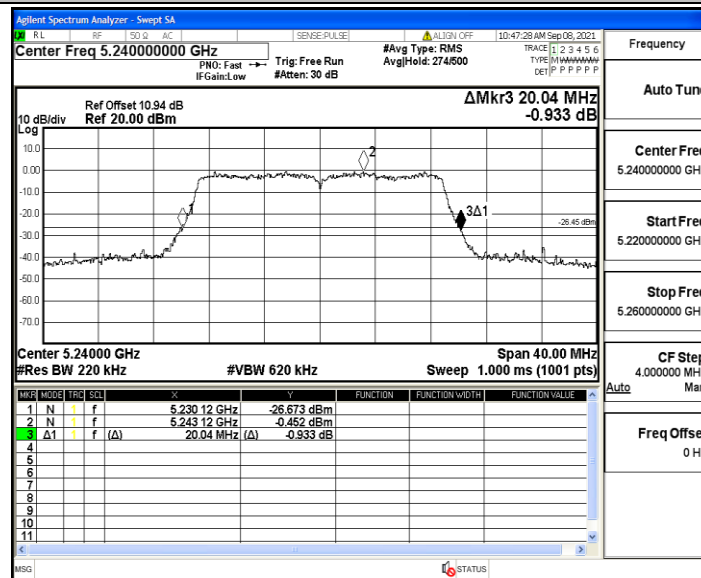
11N20MIMO_Ant1_5200



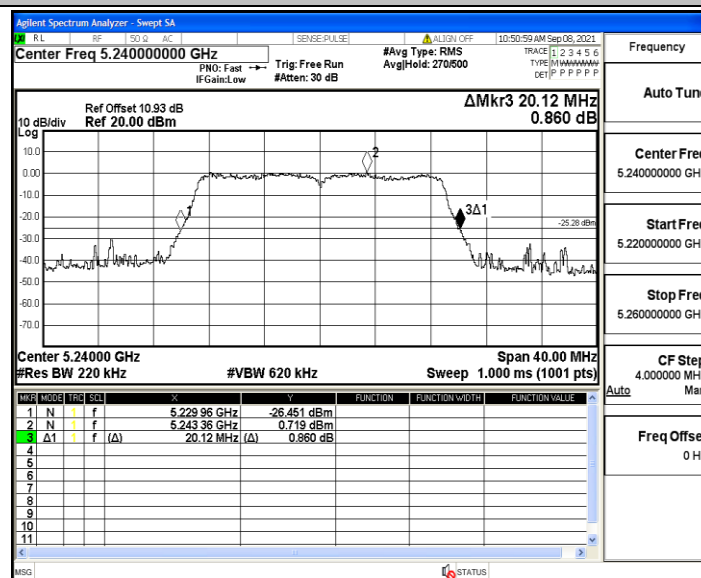
11N20MIMO_Ant2_5200



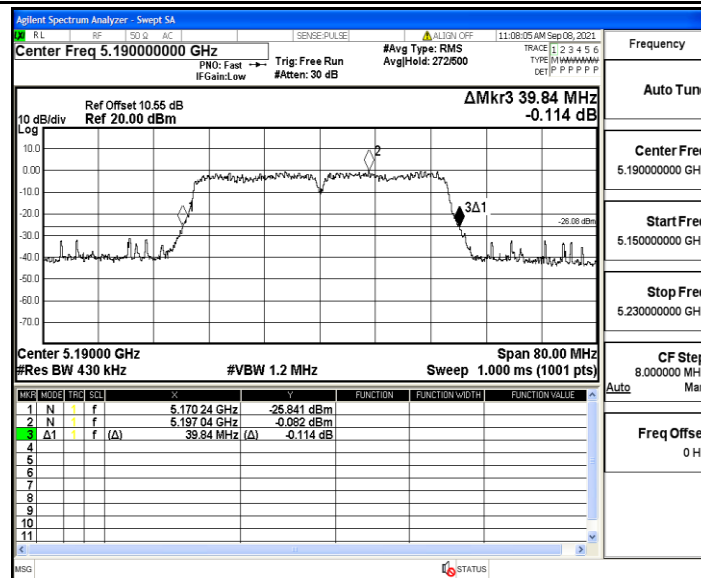
11N20MIMO_Ant1_5240



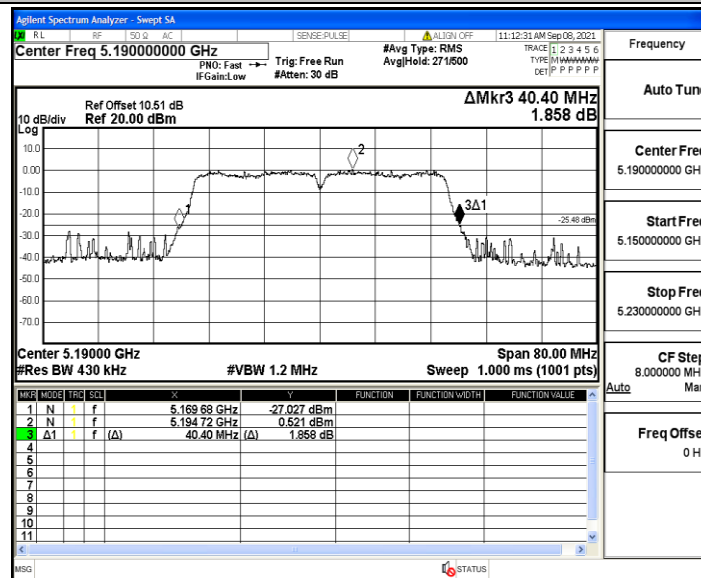
11N20MIMO_Ant2_5240



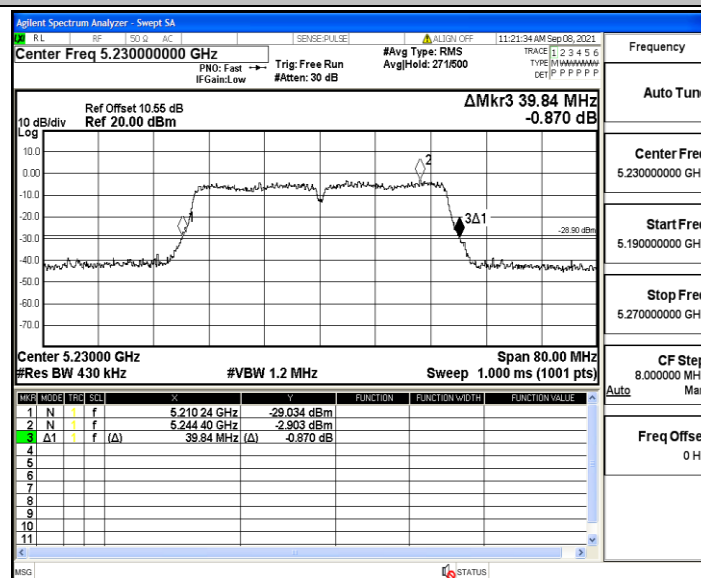
11N40MIMO_Ant1_5190



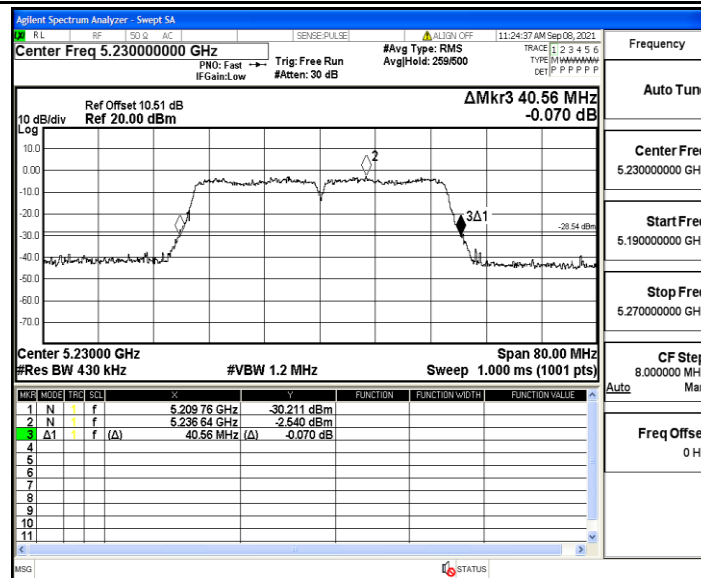
11N40MIMO_Ant2_5190



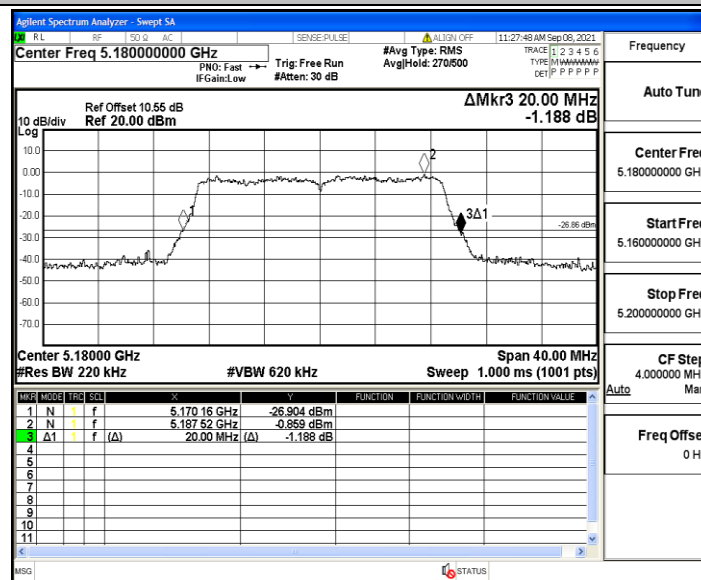
11N40MIMO_Ant1_5230



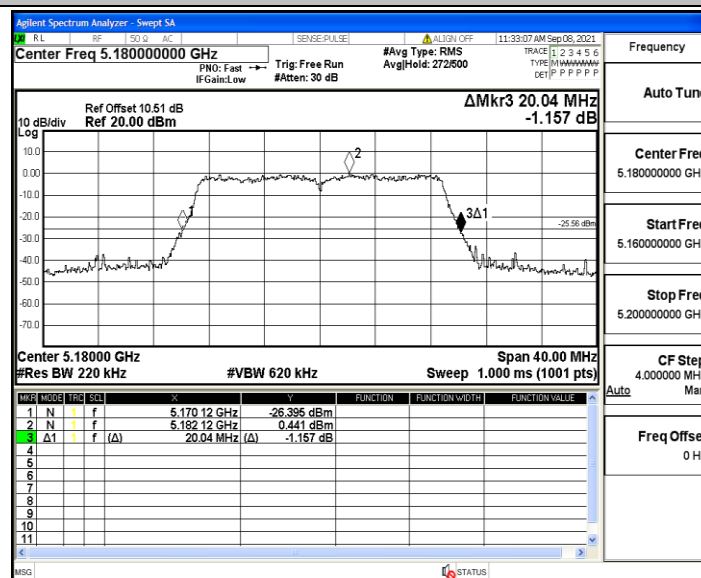
11N40MIMO_Ant2_5230



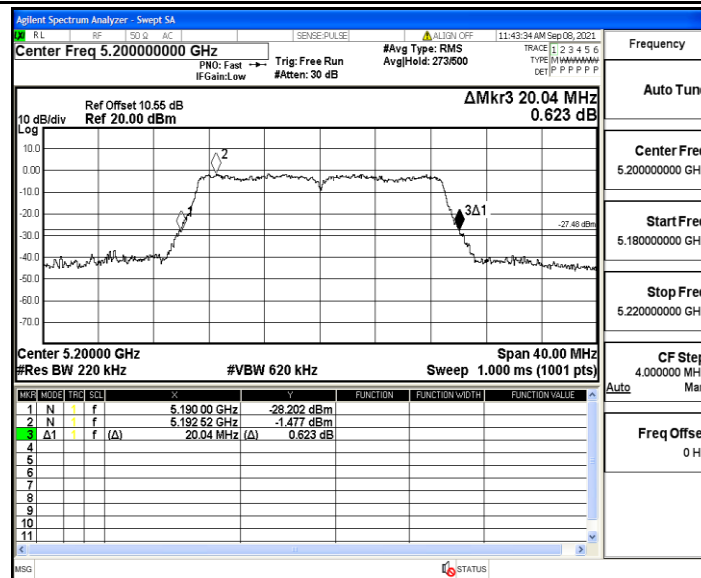
11AC20MIMO_Ant1_5180



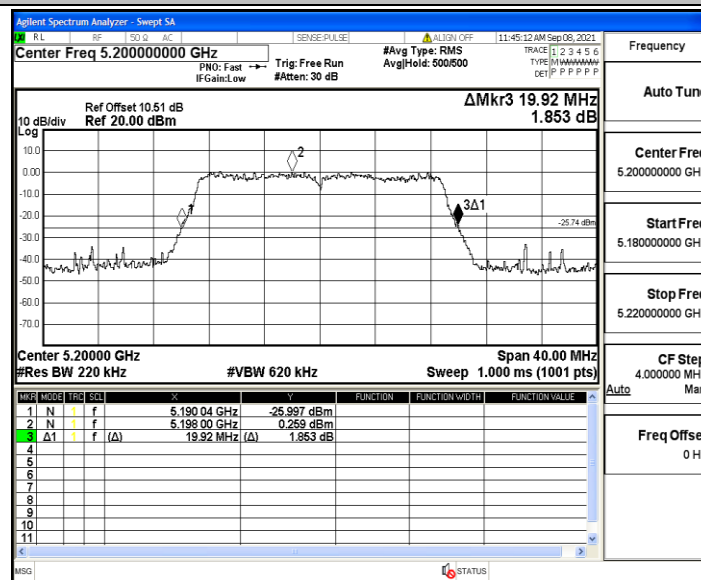
11AC20MIMO_Ant2_5180



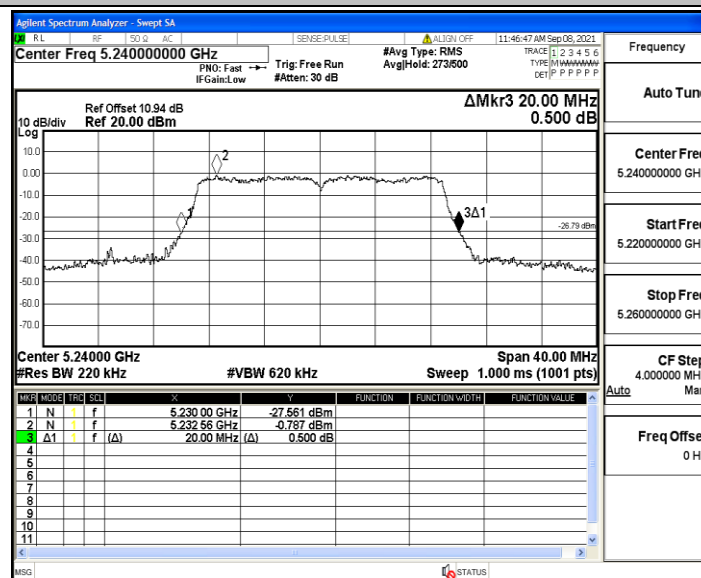
11AC20MIMO_Ant1_5200



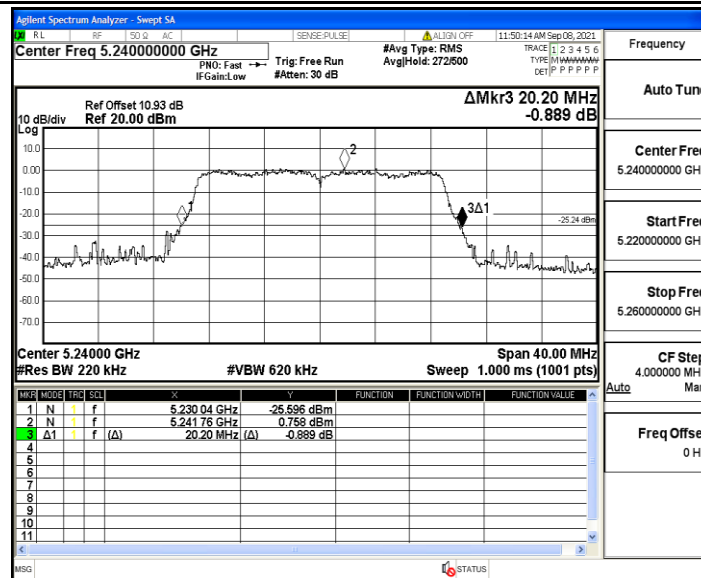
11AC20MIMO_Ant2_5200



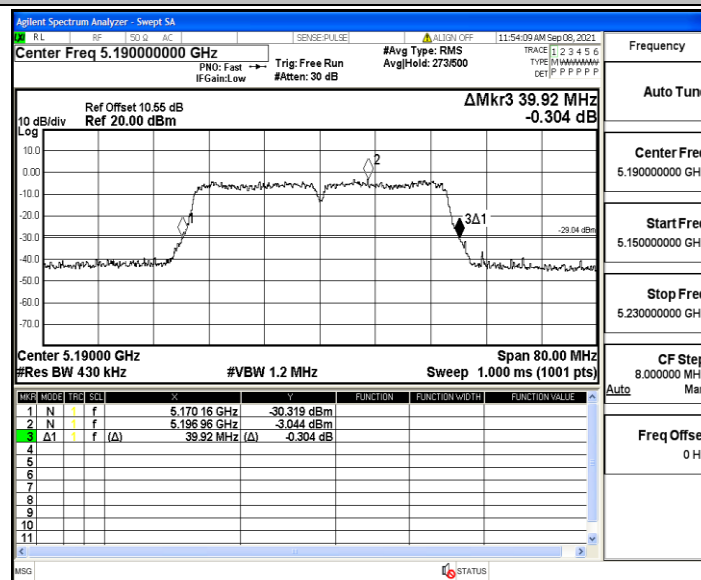
11AC20MIMO_Ant1_5240



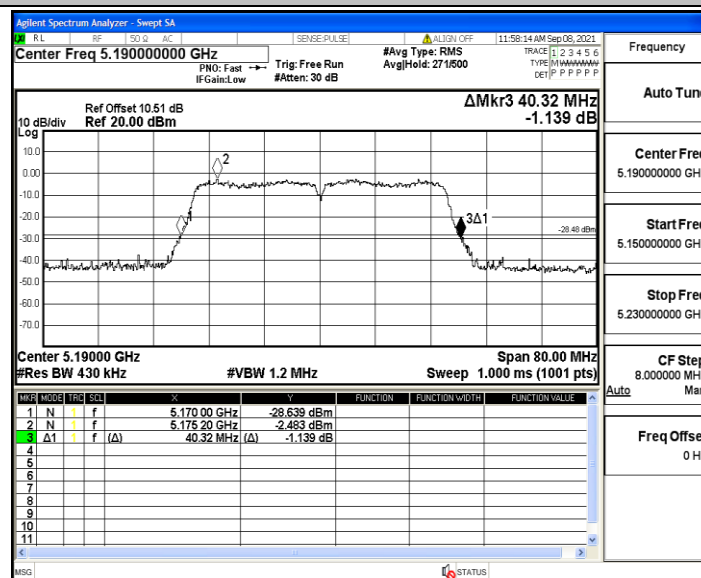
11AC20MIMO_Ant2_5240



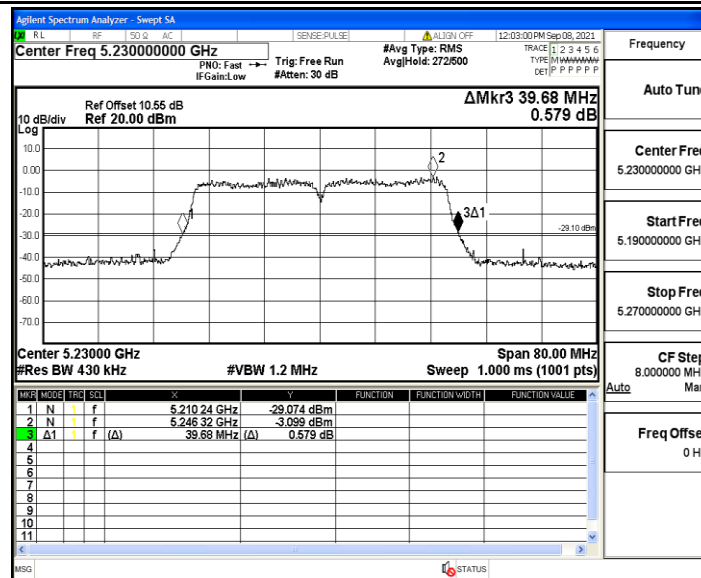
11AC40MIMO_Ant1_5190



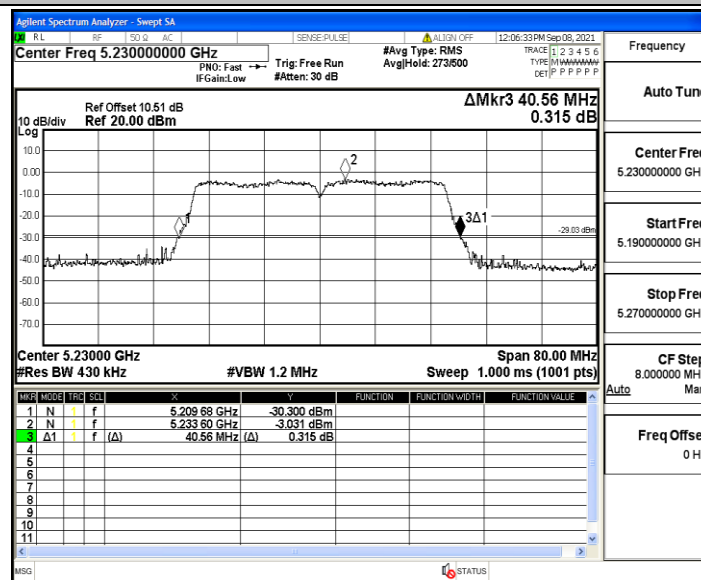
11AC40MIMO_Ant2_5190



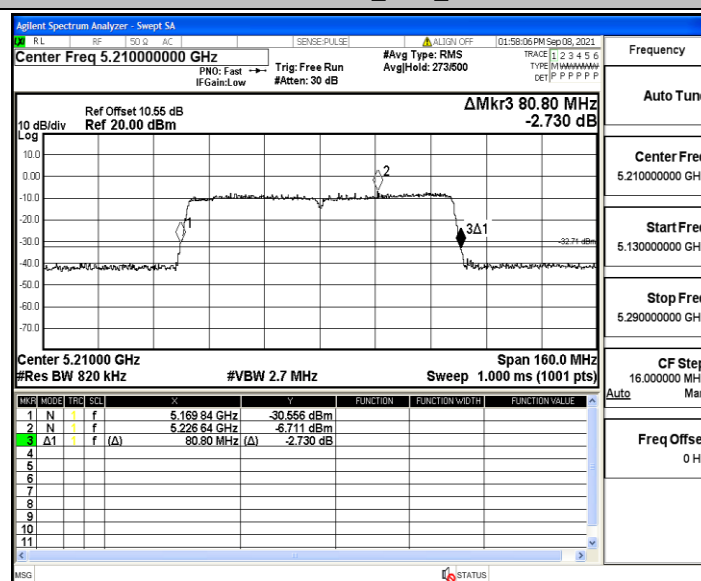
11AC40MIMO_Ant1_5230



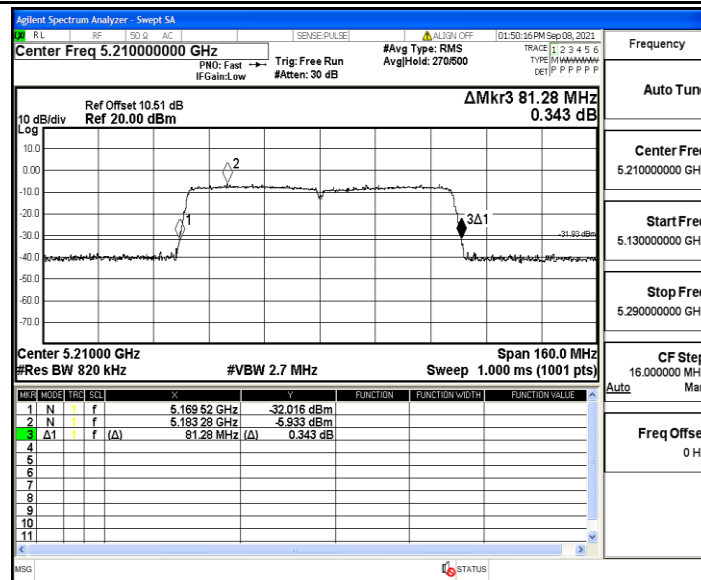
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



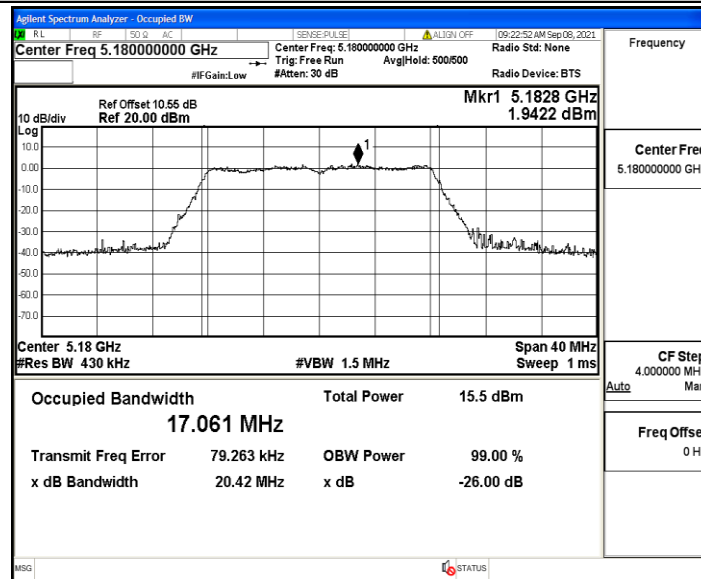
Appendix A2: Occupied channel bandwidth

Test Result

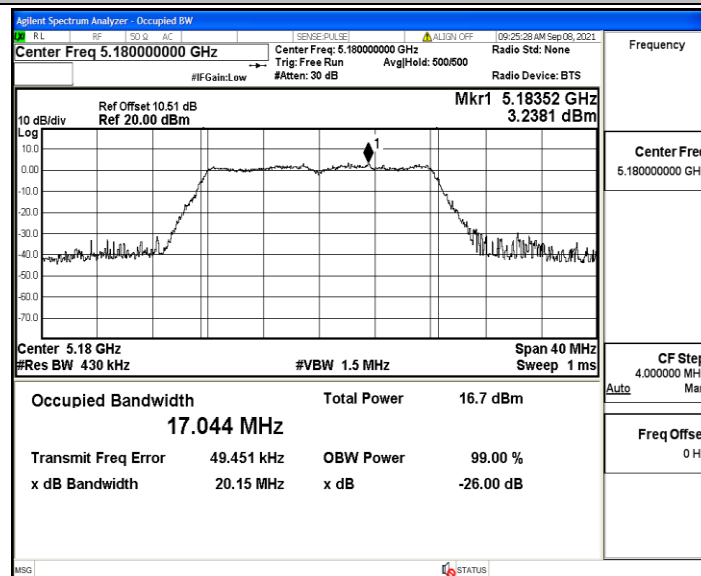
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.061	5171.549	5188.610	---	PASS
	Ant2	5180	17.044	5171.527	5188.571	---	PASS
	Ant1	5200	16.992	5191.504	5208.496	---	PASS
	Ant2	5200	16.980	5191.487	5208.467	---	PASS
	Ant1	5240	17.002	5231.535	5248.537	---	PASS
	Ant2	5240	16.989	5231.494	5248.483	---	PASS
11N20MIMO	Ant1	5180	17.805	5171.161	5188.966	---	PASS
	Ant2	5180	17.879	5171.133	5189.012	---	PASS
	Ant1	5200	17.816	5191.129	5208.945	---	PASS
	Ant2	5200	17.824	5191.102	5208.926	---	PASS
	Ant1	5240	17.797	5231.141	5248.938	---	PASS
	Ant2	5240	17.836	5231.108	5248.944	---	PASS
11N40MIMO	Ant1	5190	36.311	5171.973	5208.284	---	PASS
	Ant2	5190	36.323	5171.925	5208.248	---	PASS
	Ant1	5230	36.355	5211.950	5248.305	---	PASS
	Ant2	5230	36.388	5211.916	5248.304	---	PASS
11AC20MIMO	Ant1	5180	17.785	5171.169	5188.954	---	PASS
	Ant2	5180	17.863	5171.156	5189.019	---	PASS
	Ant1	5200	17.805	5191.125	5208.930	---	PASS
	Ant2	5200	17.830	5191.089	5208.919	---	PASS
	Ant1	5240	17.812	5231.140	5248.952	---	PASS
	Ant2	5240	17.852	5231.111	5248.963	---	PASS
11AC40MIMO	Ant1	5190	36.298	5172.003	5208.301	---	PASS
	Ant2	5190	36.298	5171.913	5208.211	---	PASS
	Ant1	5230	36.342	5211.980	5248.322	---	PASS
	Ant2	5230	36.386	5211.920	5248.306	---	PASS
11AC80MIMO	Ant1	5210	76.185	5172.217	5248.402	---	PASS
	Ant2	5210	76.049	5172.080	5248.129	---	PASS

Test Graphs

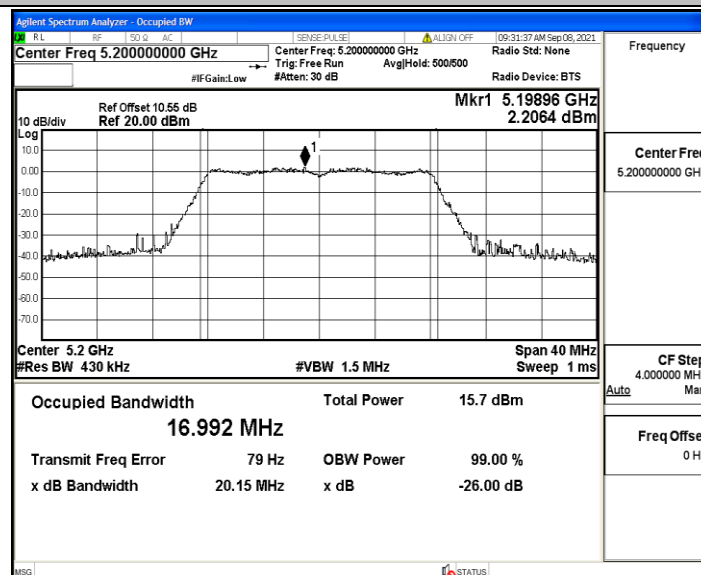
11A_Ant1_5180



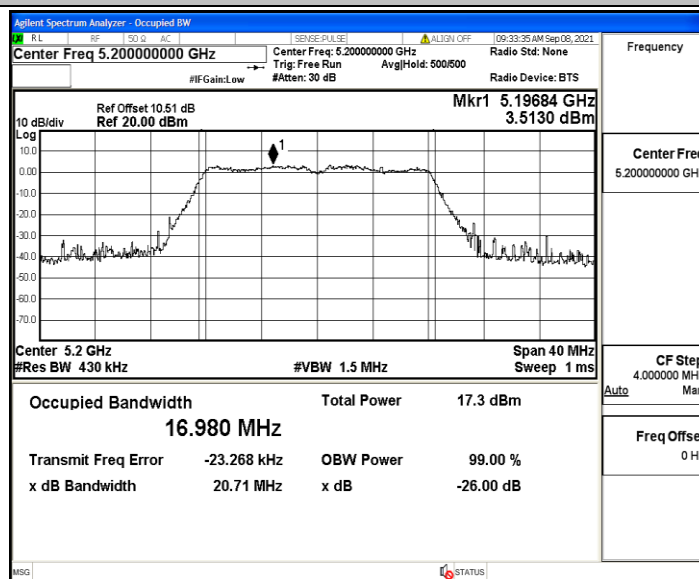
11A_Ant2_5180



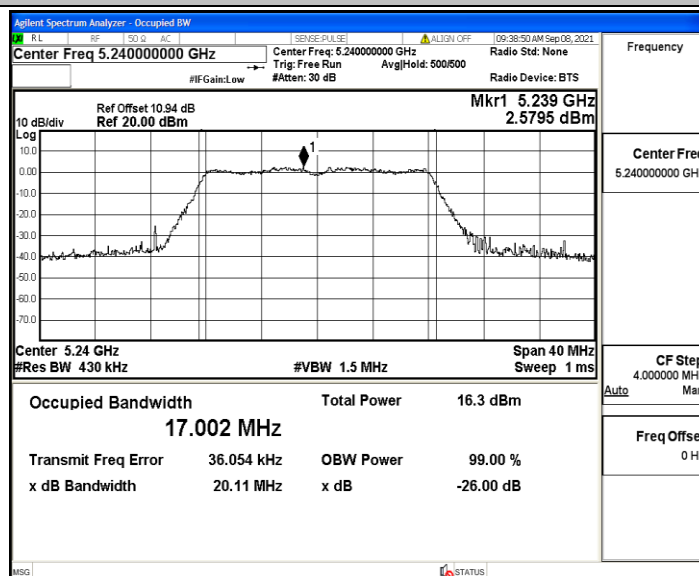
11A_Ant1_5200



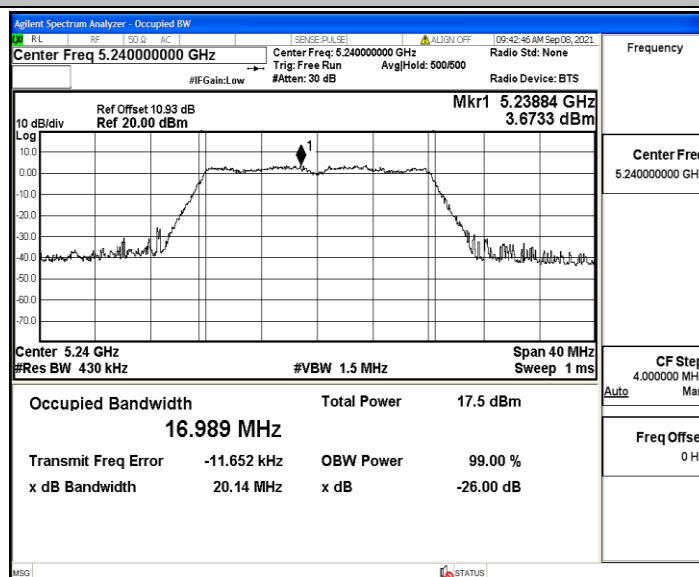
11A_Ant2_5200



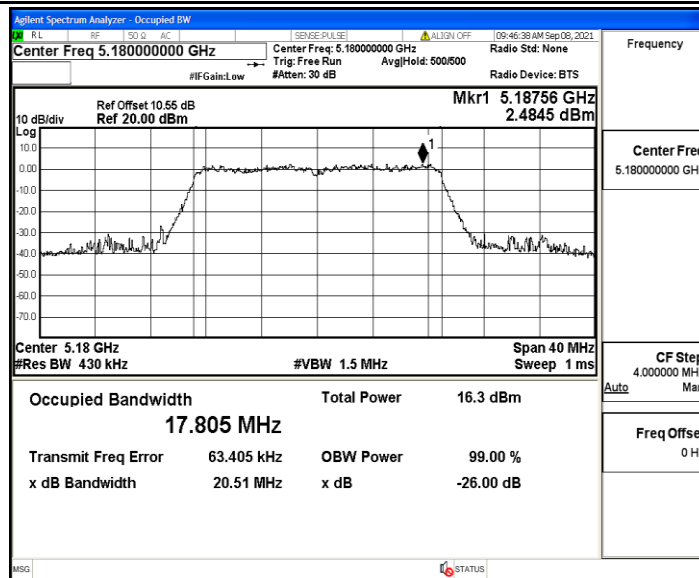
11A_Ant1_5240



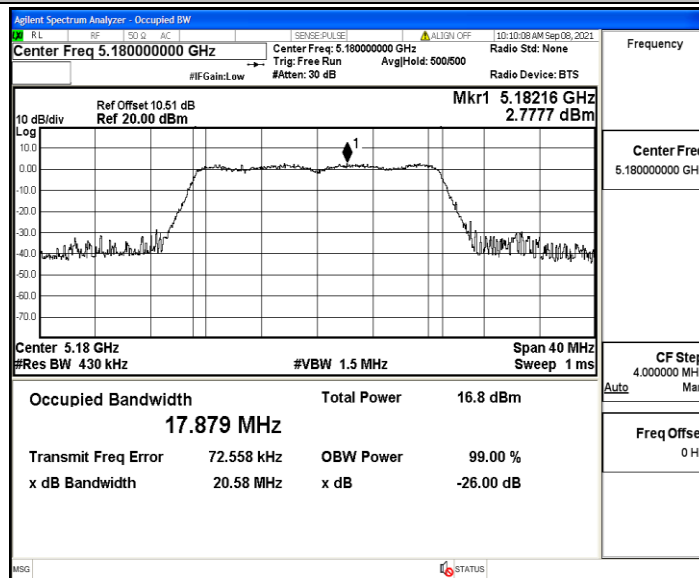
11A_Ant2_5240



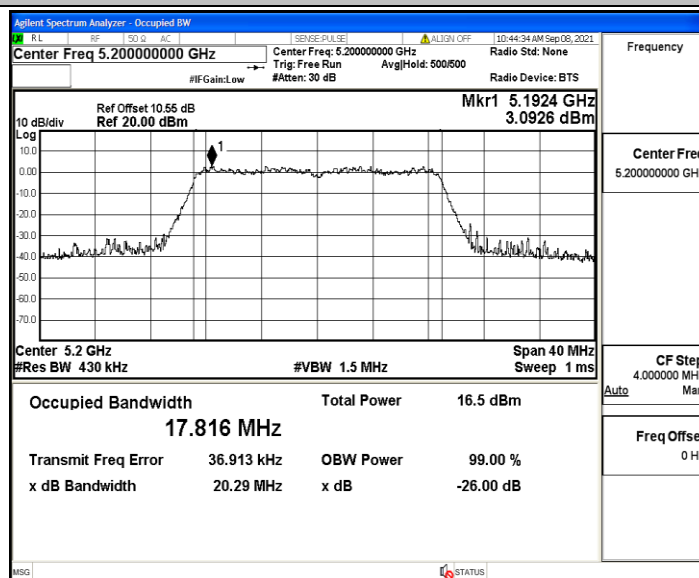
11N20MIMO_Ant1_5180



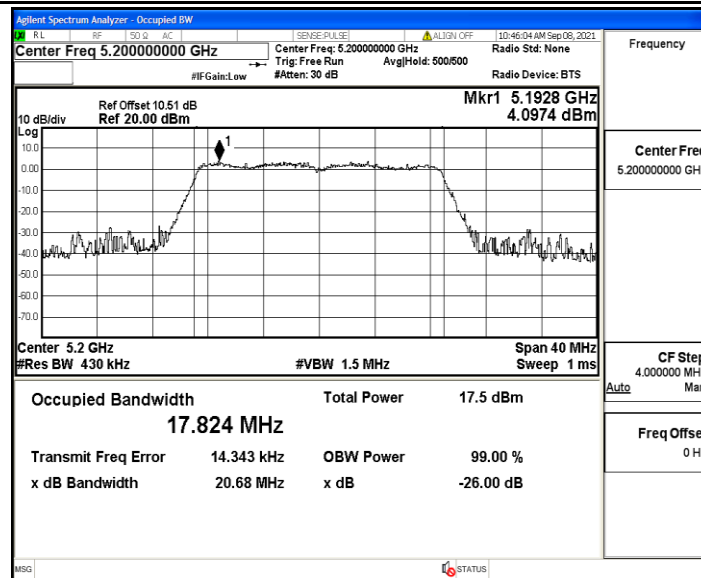
11N20MIMO_Ant2_5180



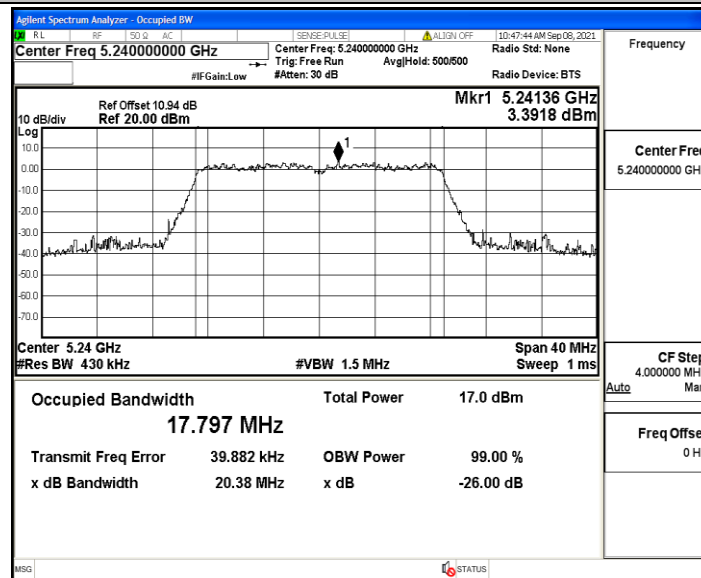
11N20MIMO_Ant1_5200



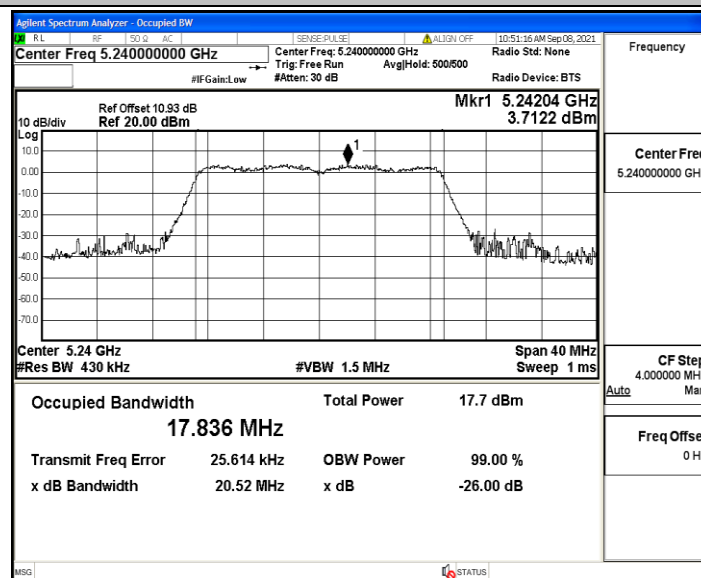
11N20MIMO_Ant2_5200



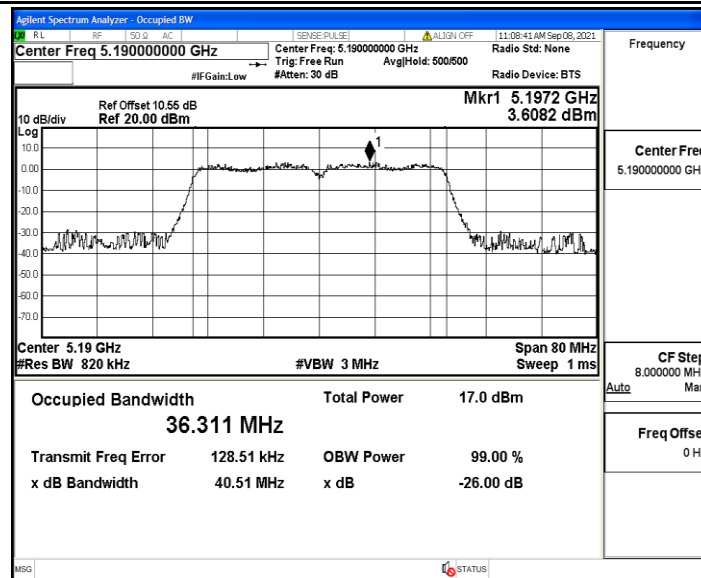
11N20MIMO_Ant1_5240



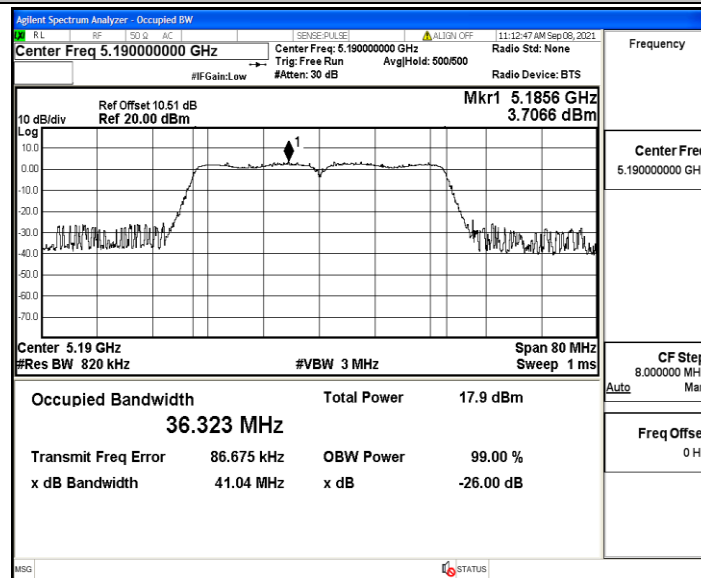
11N20MIMO_Ant2_5240



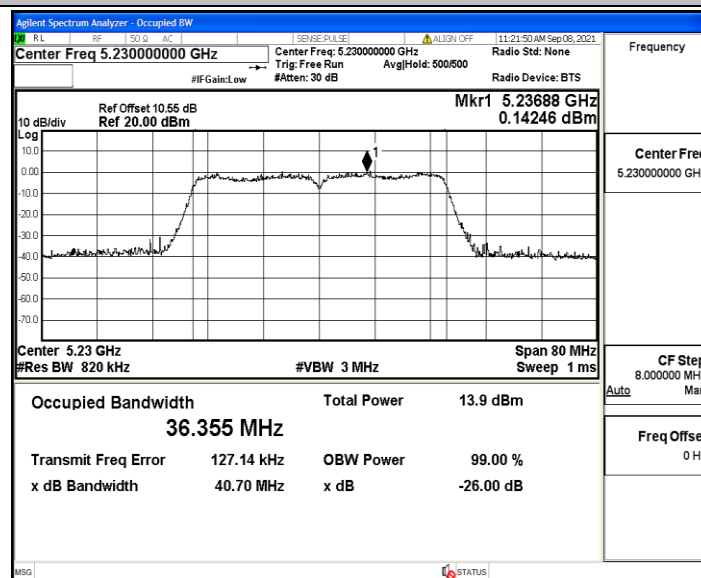
11N40MIMO_Ant1_5190



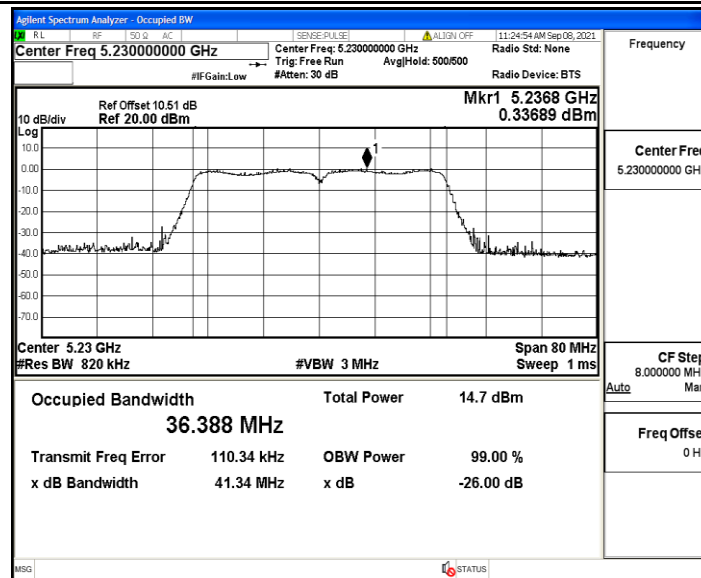
11N40MIMO_Ant2_5190



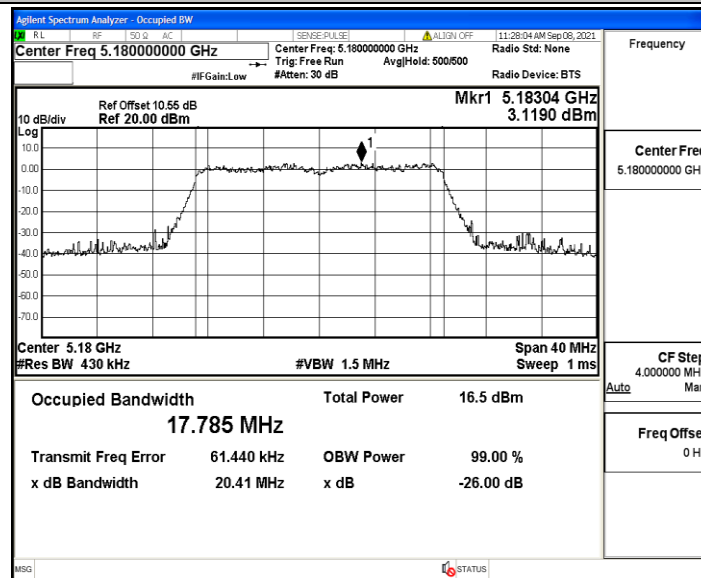
11N40MIMO_Ant1_5230



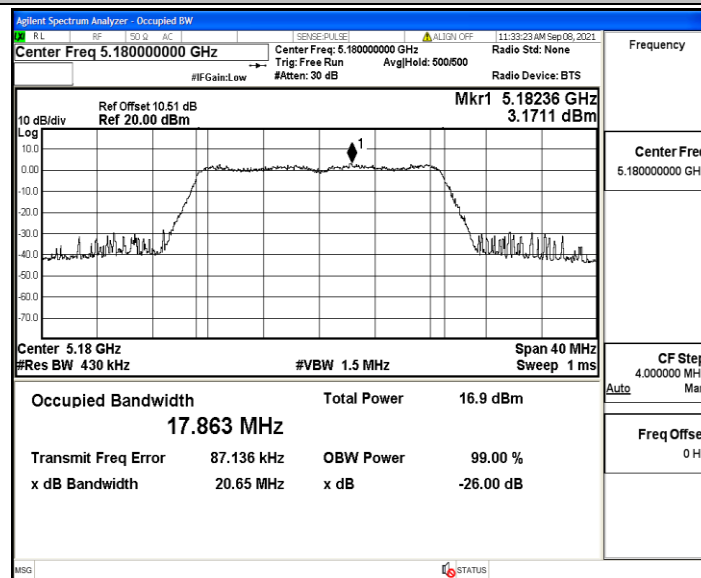
11N40MIMO_Ant2_5230



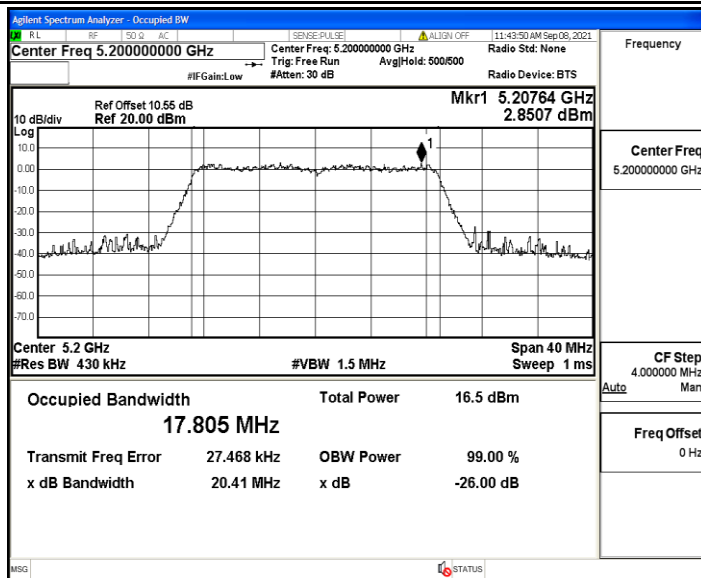
11AC20MIMO_Ant1_5180



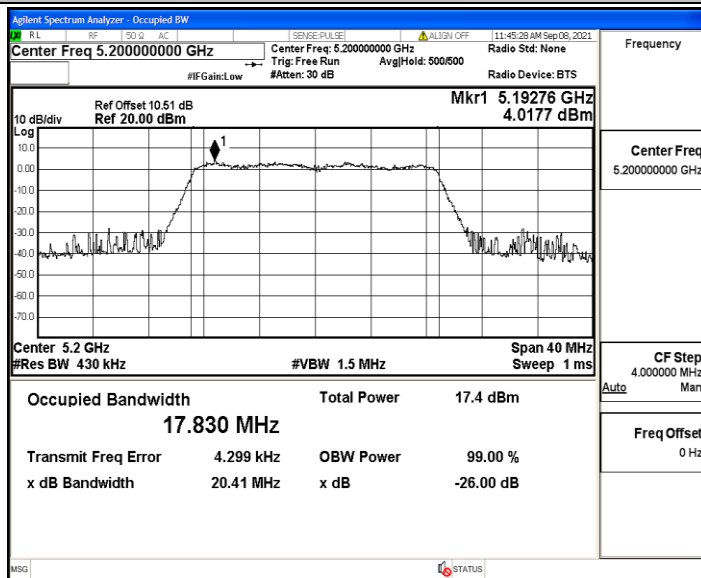
11AC20MIMO_Ant2_5180



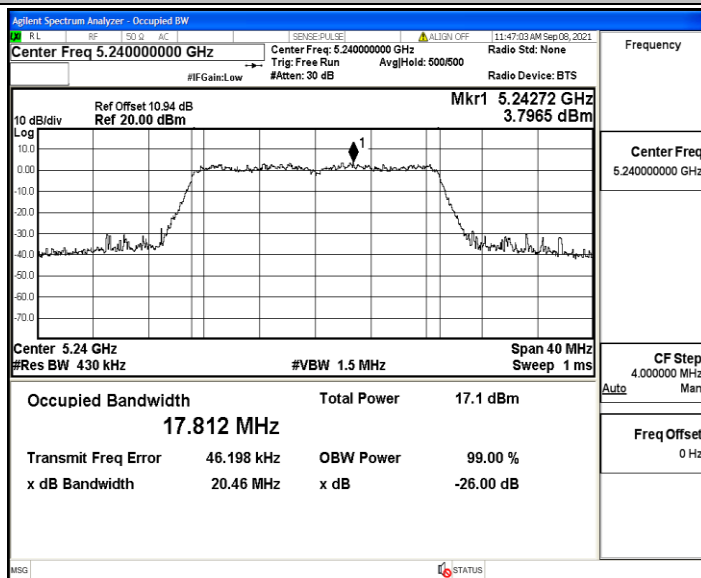
11AC20MIMO_Ant1_5200



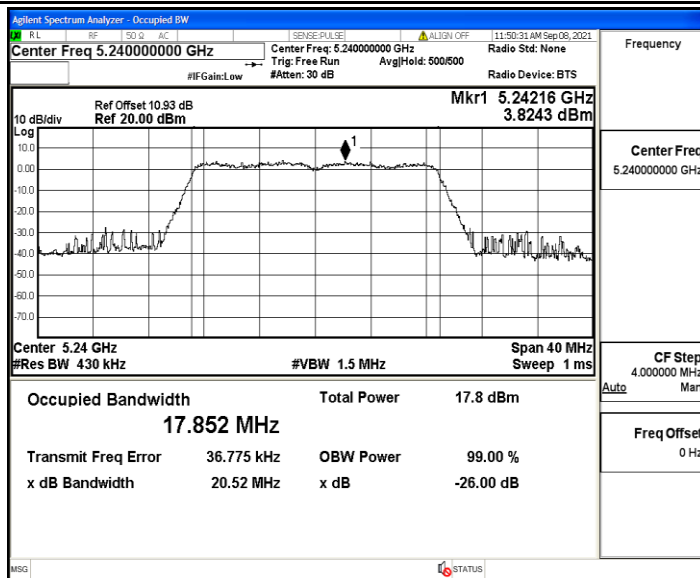
11AC20MIMO_Ant2_5200



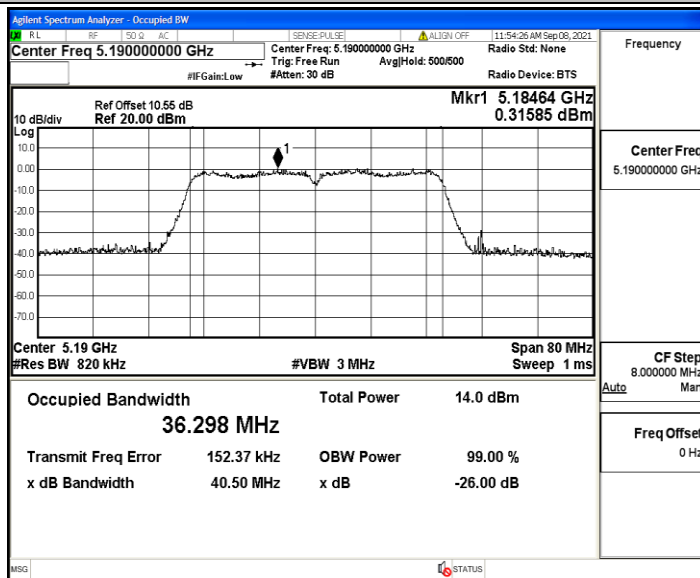
11AC20MIMO_Ant1_5240



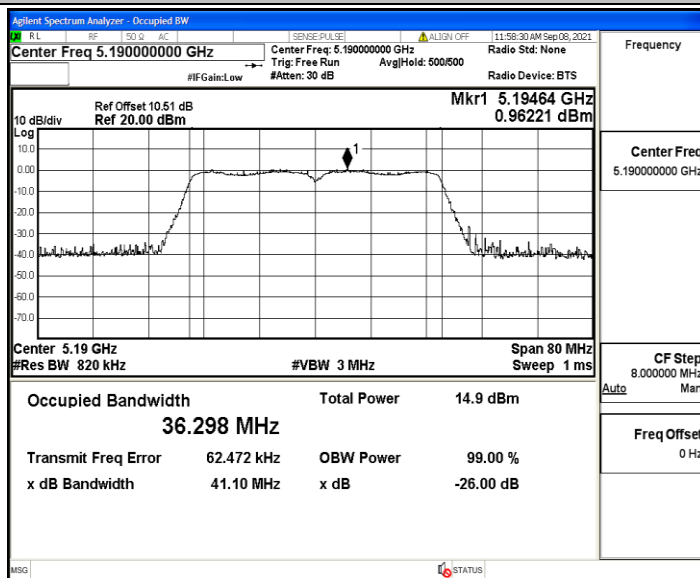
11AC20MIMO_Ant2_5240



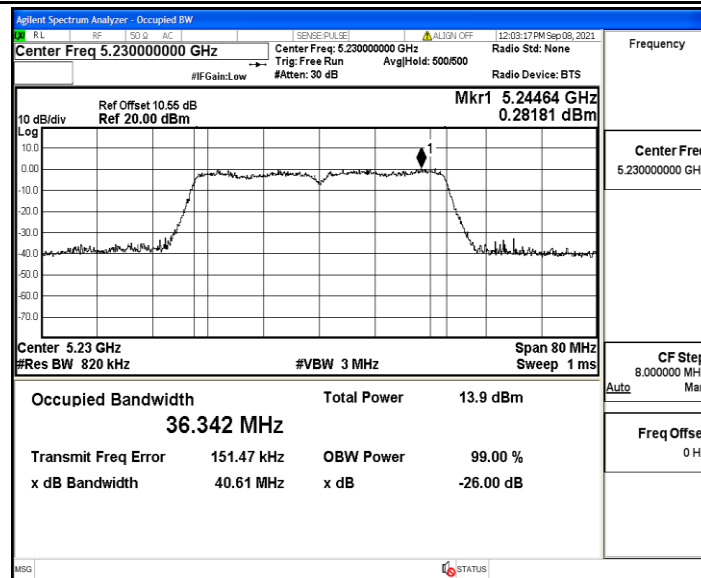
11AC40MIMO_Ant1_5190



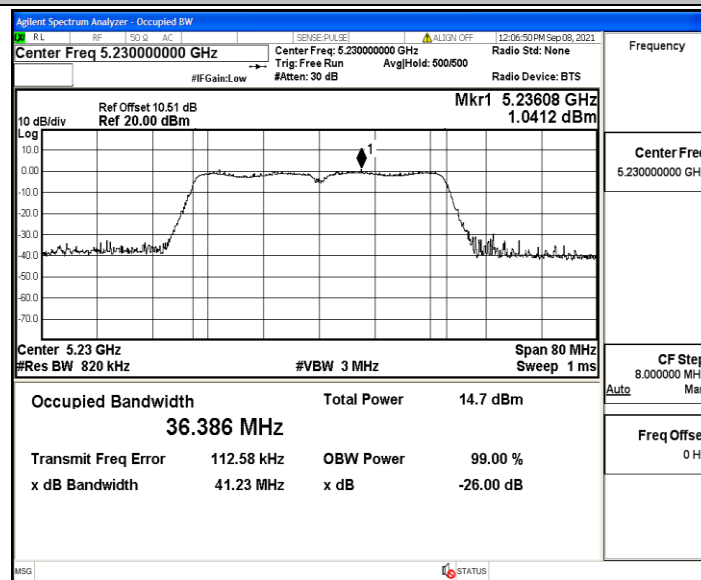
11AC40MIMO_Ant2_5190



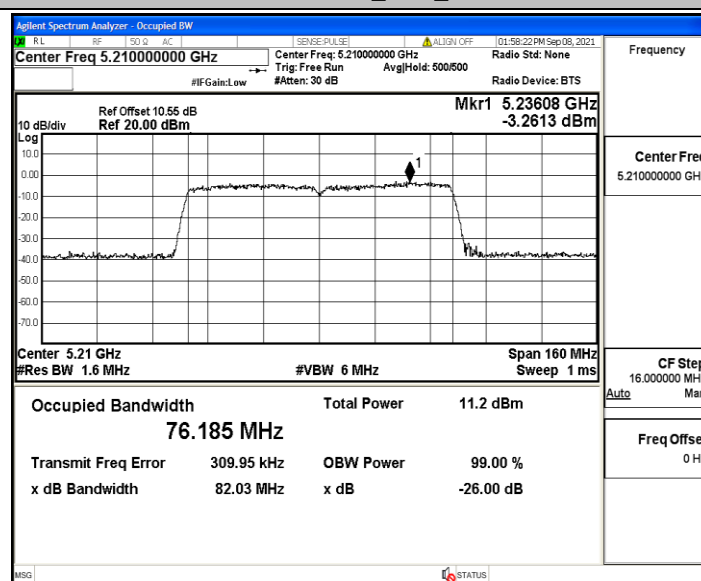
11AC40MIMO_Ant1_5230



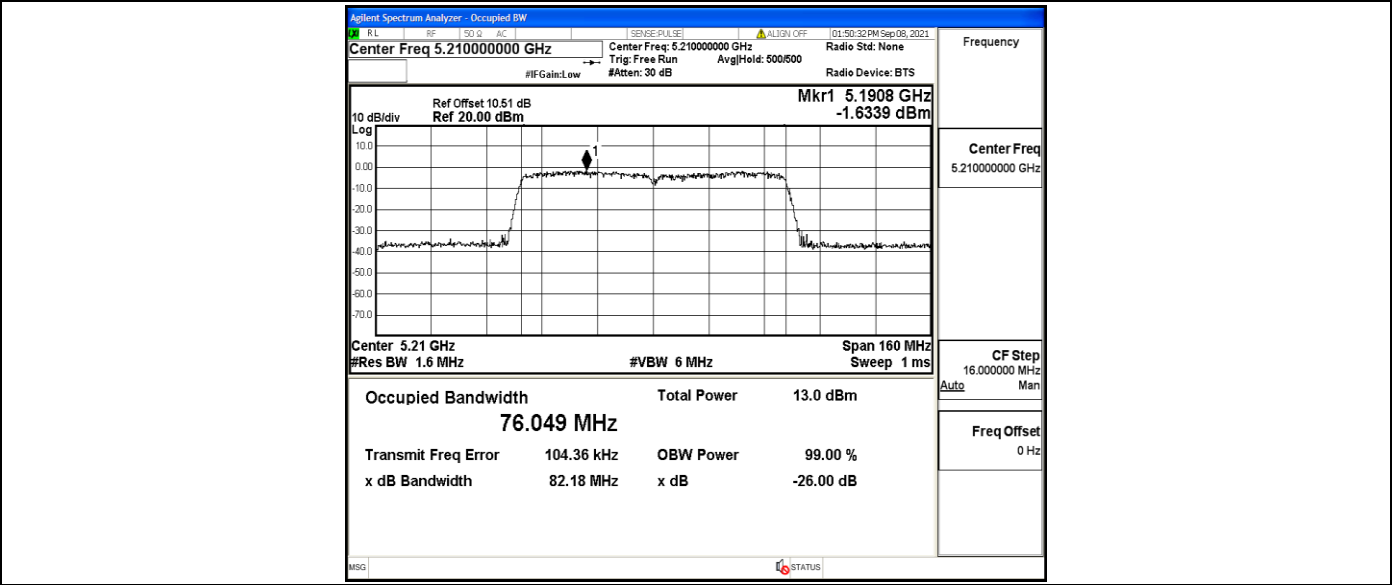
11AC40MIMO_Ant2_5230



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	8.69	≤23.98	PASS
	Ant2	5180	9.88	≤23.98	PASS
	Ant1	5200	8.95	≤23.98	PASS
	Ant2	5200	10.37	≤23.98	PASS
	Ant1	5240	9.51	≤23.98	PASS
	Ant2	5240	10.67	≤23.98	PASS
11N20MIMO	Ant1	5180	9.01	≤23.98	PASS
	Ant2	5180	10.04	≤23.98	PASS
	total	5180	12.6	≤22.82	PASS
	Ant1	5200	9.19	≤23.98	PASS
	Ant2	5200	10.60	≤23.98	PASS
	total	5200	13.0	≤22.82	PASS
	Ant1	5240	9.74	≤23.98	PASS
	Ant2	5240	10.95	≤23.98	PASS
	total	5240	13.4	≤22.82	PASS
11N40MIMO	Ant1	5190	6.01	≤23.98	PASS
	Ant2	5190	7.58	≤23.98	PASS
	total	5190	9.9	≤22.82	PASS
	Ant1	5230	6.10	≤23.98	PASS
	Ant2	5230	7.39	≤23.98	PASS
	total	5230	9.8	≤22.82	PASS
11AC20MIMO	Ant1	5180	9.10	≤23.98	PASS
	Ant2	5180	10.12	≤23.98	PASS
	total	5180	12.7	≤23.98	PASS
	Ant1	5200	9.21	≤23.98	PASS
	Ant2	5200	10.62	≤23.98	PASS
	total	5200	13.0	≤22.82	PASS
	Ant1	5240	9.81	≤23.98	PASS
	Ant2	5240	11.03	≤23.98	PASS
	total	5240	13.5	≤22.82	PASS
11AC40MIMO	Ant1	5190	6.02	≤23.98	PASS
	Ant2	5190	7.59	≤23.98	PASS
	total	5190	9.9	≤22.82	PASS
	Ant1	5230	6.06	≤23.98	PASS
	Ant2	5230	7.40	≤23.98	PASS
	total	5230	9.8	≤23.98	PASS
11AC80MIMO	Ant1	5210	2.24	≤23.98	PASS
	Ant2	5210	4.02	≤23.98	PASS
	total	5210	6.23	≤22.82	PASS

Appendix C: Maximum power spectral density

Test Result

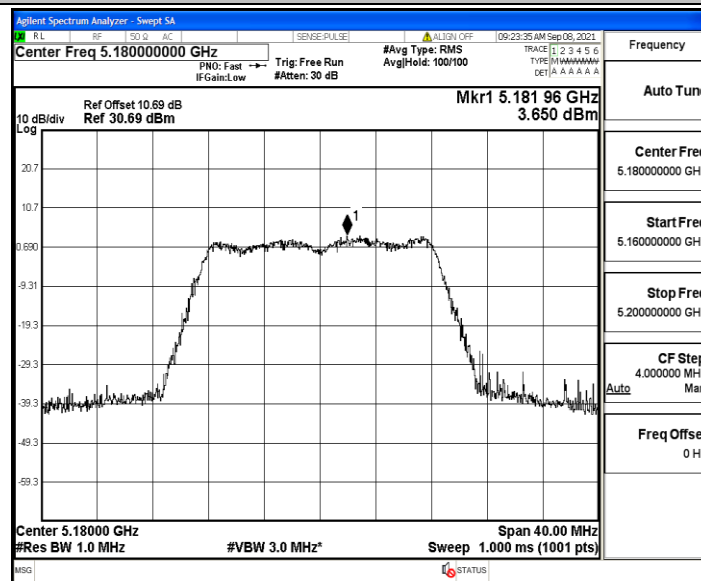
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	3.65	≤11	PASS
	Ant2	5180	5.03	≤11	PASS
	Ant1	5200	4.53	≤11	PASS
	Ant2	5200	5.3	≤11	PASS
	Ant1	5240	4.23	≤11	PASS
	Ant2	5240	5.9	≤11	PASS
11N20MIMO	Ant1	5180	4.26	≤11	PASS
	Ant2	5180	4.53	≤11	PASS
	total	5180	7.41	≤9.84	PASS
	Ant1	5200	5.38	≤11	PASS
	Ant2	5200	5.17	≤11	PASS
	total	5200	8.29	≤9.84	PASS
	Ant1	5240	4.69	≤11	PASS
	Ant2	5240	5.48	≤11	PASS
	total	5240	8.11	≤9.84	PASS
11N40MIMO	Ant1	5190	-0.94	≤11	PASS
	Ant2	5190	-0.85	≤11	PASS
	total	5190	2.12	≤9.84	PASS
	Ant1	5230	-1.64	≤11	PASS
	Ant2	5230	-1.03	≤11	PASS
	total	5230	1.69	≤9.84	PASS
11AC20MIMO	Ant1	5180	5.16	≤11	PASS
	Ant2	5180	4.57	≤11	PASS
	total	5180	7.89	≤9.84	PASS
	Ant1	5200	4.35	≤11	PASS
	Ant2	5200	4.7	≤11	PASS
	total	5200	7.54	≤9.84	PASS
	Ant1	5240	4.47	≤11	PASS
	Ant2	5240	6.28	≤11	PASS
	total	5240	8.48	≤9.84	PASS
11AC40MIMO	Ant1	5190	-1.94	≤11	PASS
	Ant2	5190	-0.19	≤11	PASS
	total	5190	2.03	≤9.84	PASS
	Ant1	5230	-0.77	≤11	PASS
	Ant2	5230	-1.4	≤11	PASS
	total	5230	1.94	≤9.84	PASS
11AC80MIMO	Ant1	5210	-8.36	≤11	PASS
	Ant2	5210	-7.47	≤11	PASS
	total	5210	0.72	≤9.84	PASS

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

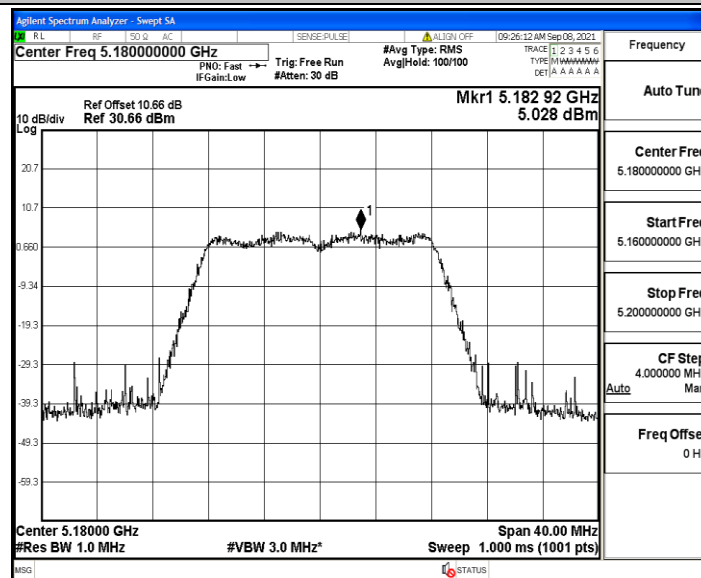
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

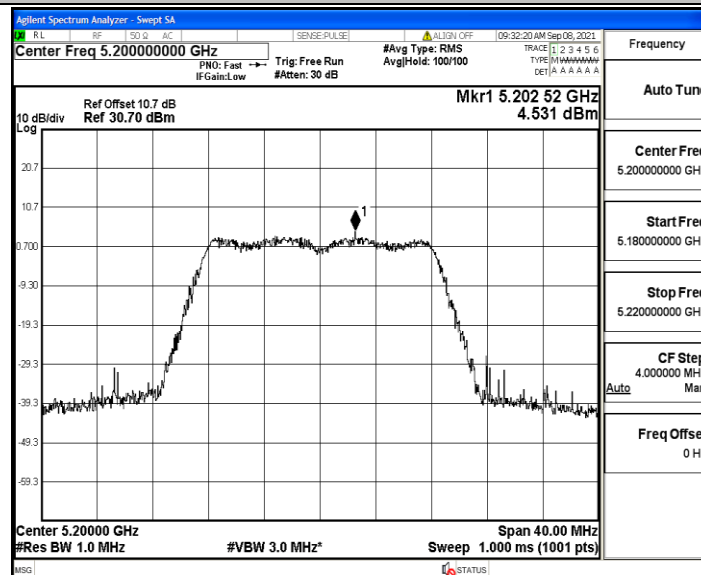
11A_Ant1_5180



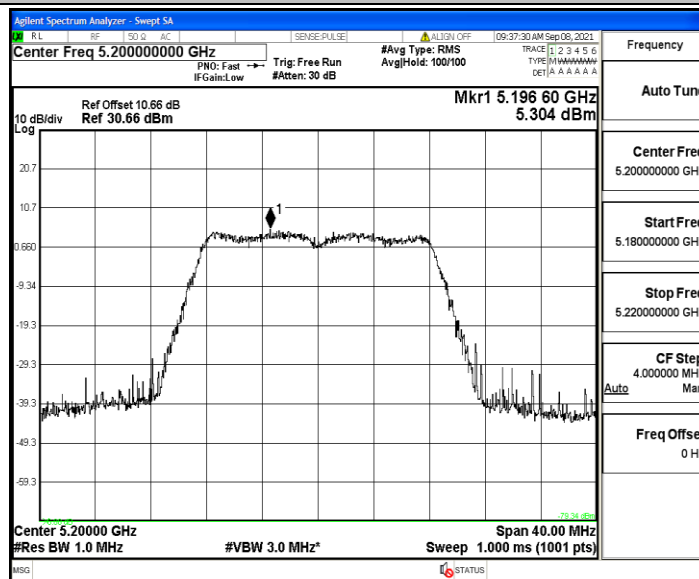
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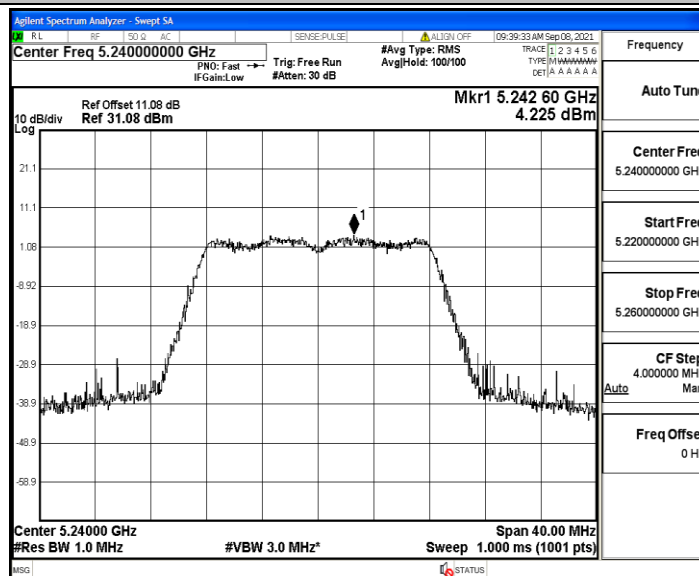
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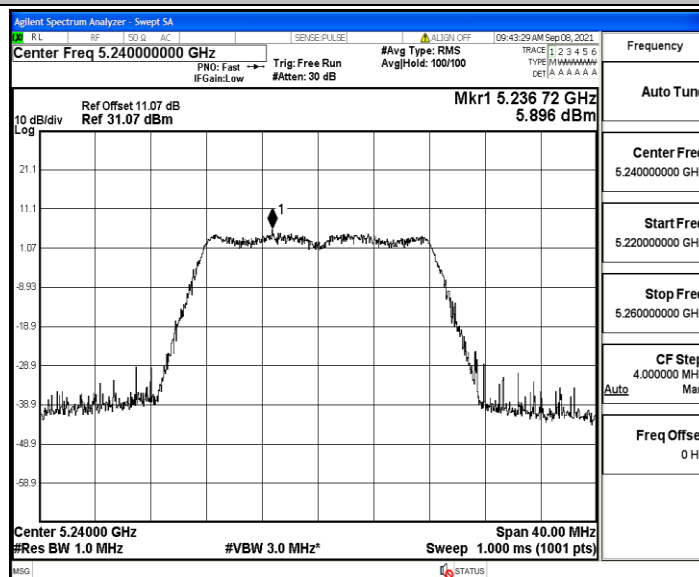
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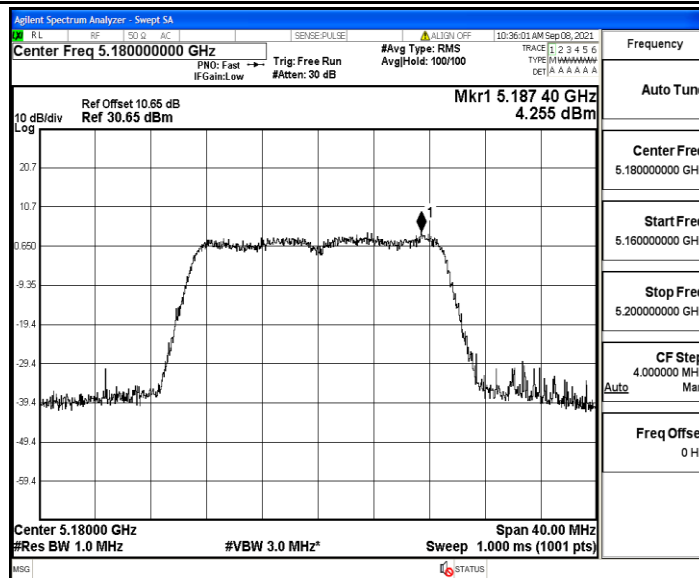
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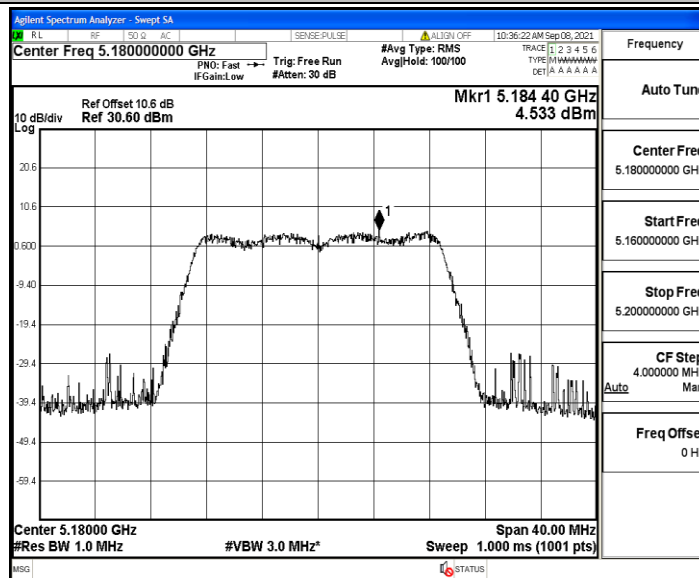
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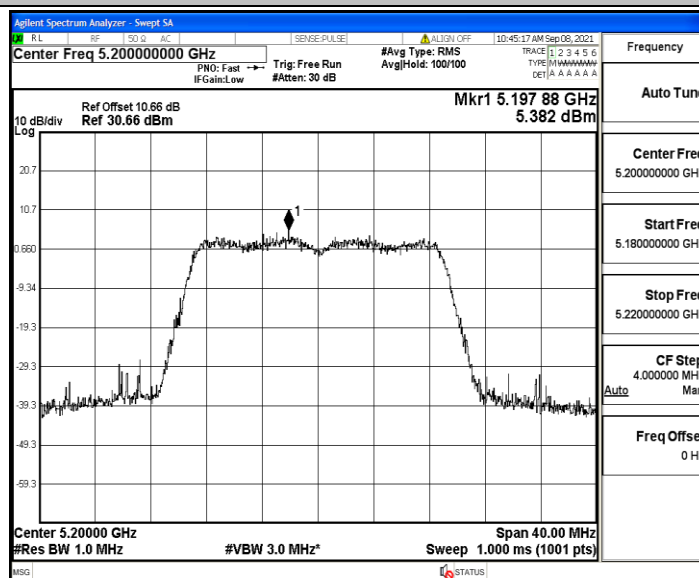
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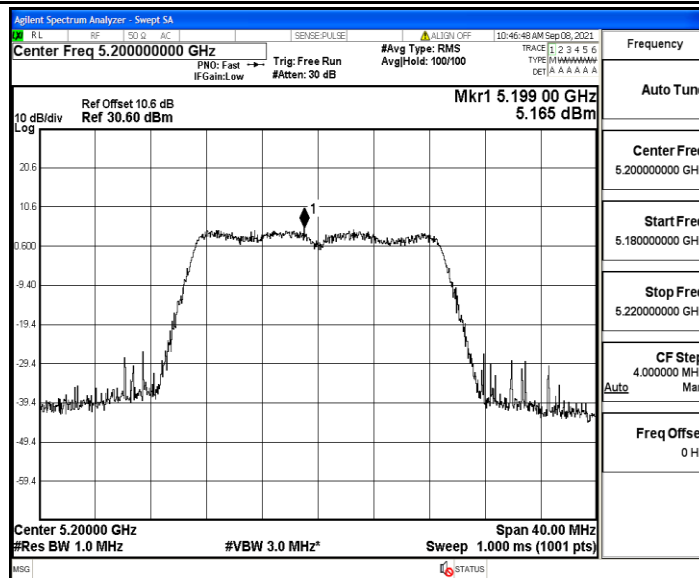
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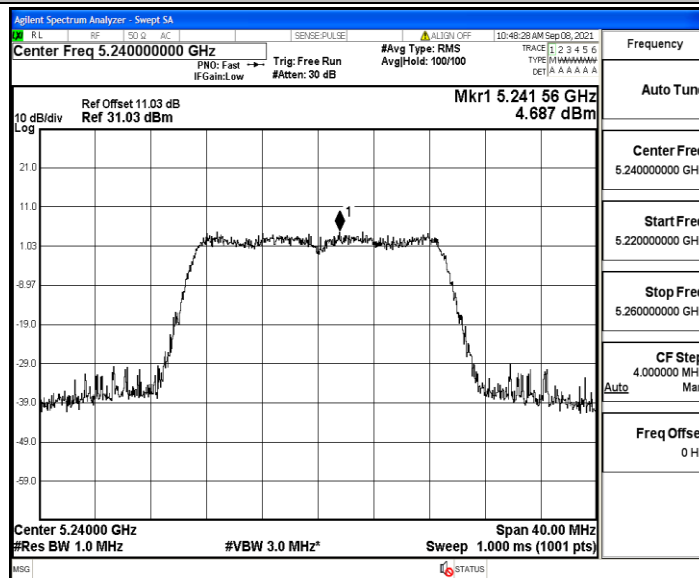
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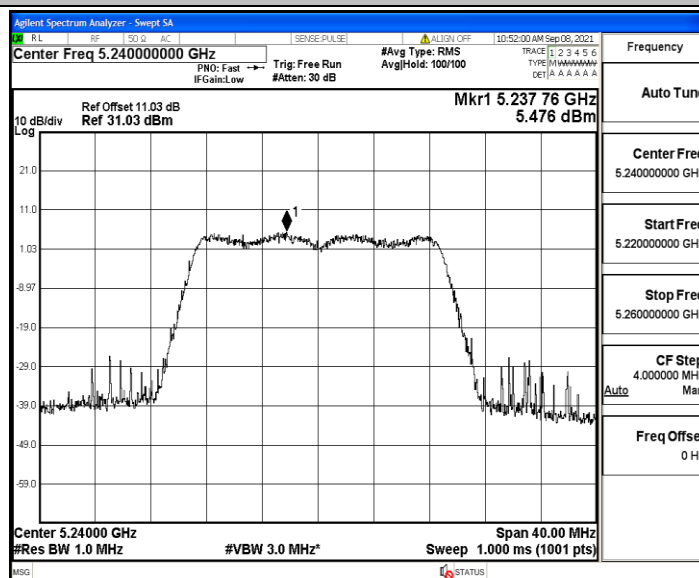
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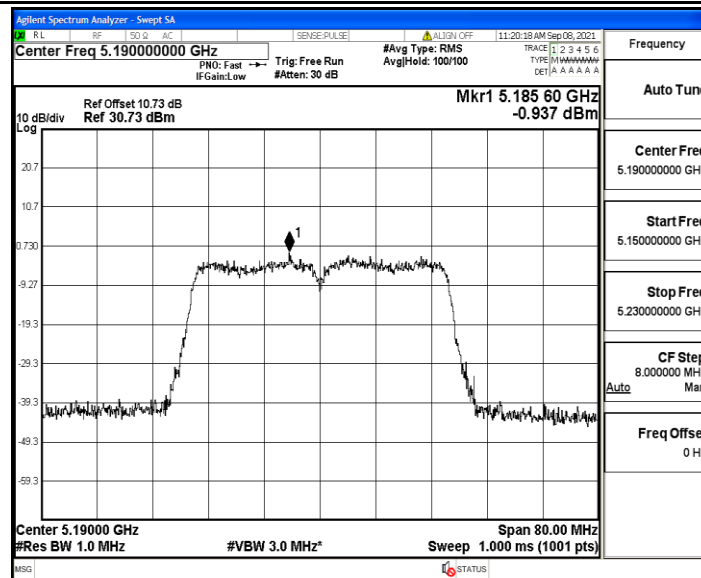
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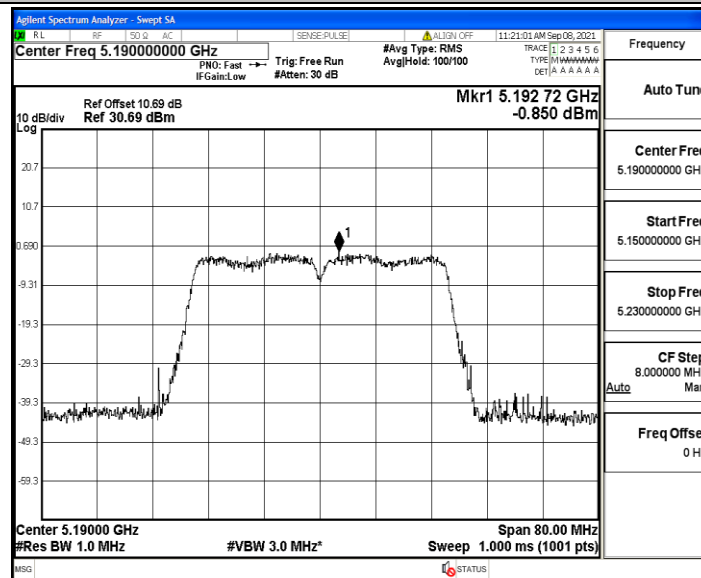
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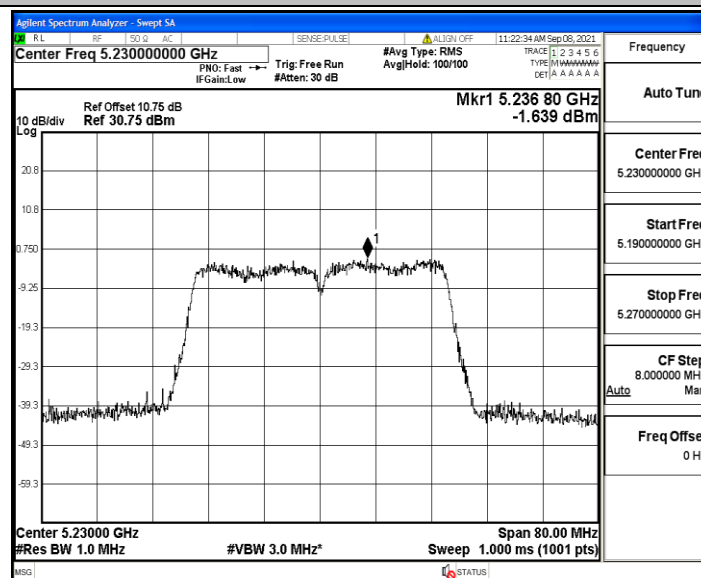
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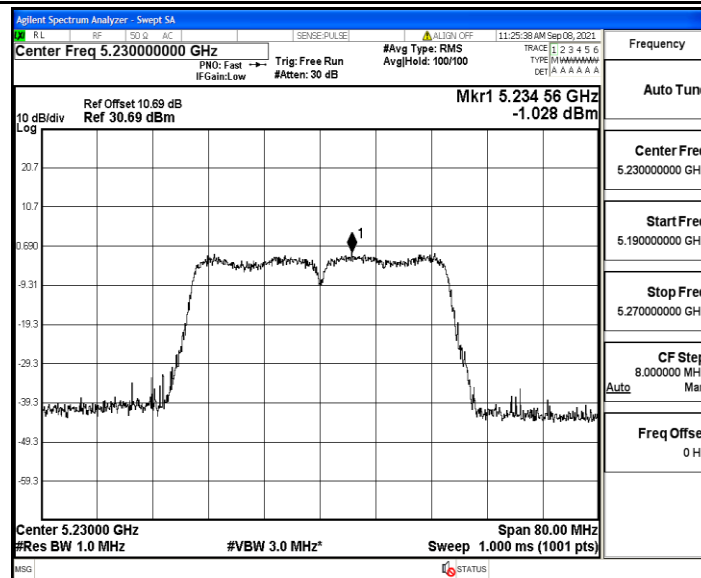
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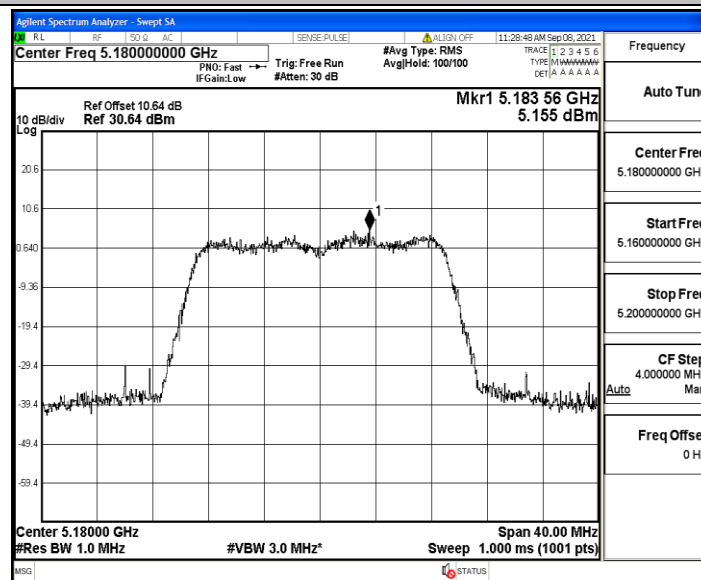
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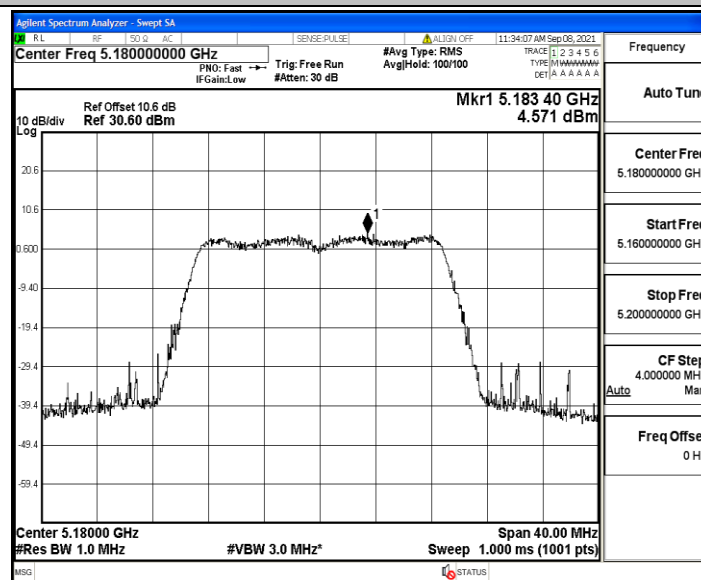
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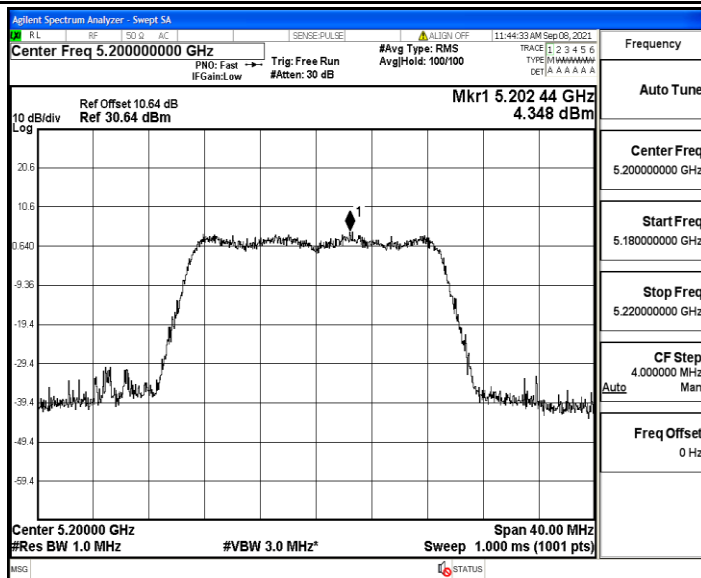
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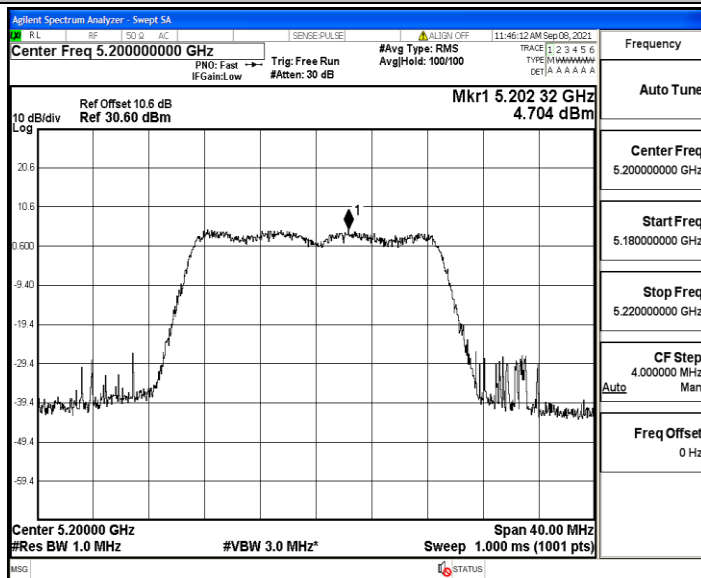
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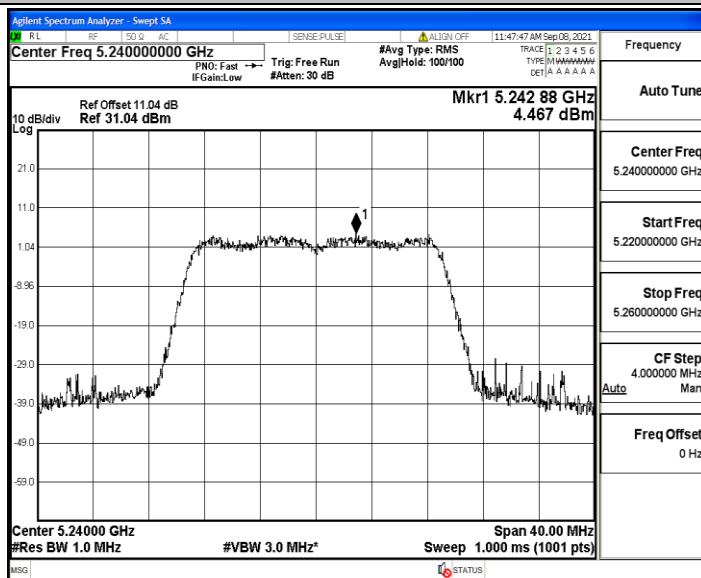
11AC20MIMO_Ant1_5200



11AC20MIMO_Ant2_5200



11AC20MIMO_Ant1_5240



11AC20MIMO_Ant2_5240