

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

Product Name: VITURE One Neckband

Trade Mark: **VITURE**

Test Model: V1218

FCC ID: 2BBOT-V1218

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

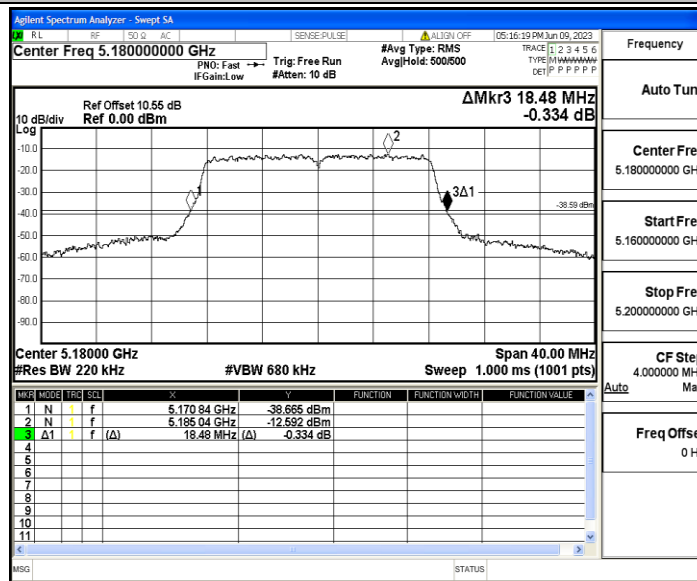
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	18.480	5170.840	5189.320	---	---
	Ant2	5180	18.600	5170.760	5189.360	---	---
	Ant1	5200	18.440	5190.800	5209.240	---	---
	Ant2	5200	18.680	5190.680	5209.360	---	---
	Ant1	5240	18.520	5230.760	5249.280	---	---
	Ant2	5240	18.640	5230.720	5249.360	---	---
11N20MIMO	Ant1	5180	19.200	5170.400	5189.600	---	---
	Ant2	5180	19.240	5170.360	5189.600	---	---
	Ant1	5200	19.200	5190.480	5209.680	---	---
	Ant2	5200	19.280	5190.440	5209.720	---	---
	Ant1	5240	19.160	5230.360	5249.520	---	---
	Ant2	5240	19.200	5230.360	5249.560	---	---
11N40MIMO	Ant1	5190	39.760	5170.000	5209.760	---	---
	Ant2	5190	39.680	5170.160	5209.840	---	---
	Ant1	5230	39.760	5210.080	5249.840	---	---
	Ant2	5230	39.280	5210.560	5249.840	---	---
11AC20MIMO	Ant1	5180	19.280	5170.440	5189.720	---	---
	Ant2	5180	19.360	5170.440	5189.800	---	---
	Ant1	5200	19.120	5190.480	5209.600	---	---
	Ant2	5200	19.200	5190.440	5209.640	---	---
	Ant1	5240	19.400	5230.280	5249.680	---	---
	Ant2	5240	19.320	5230.360	5249.680	---	---
11AC40MIMO	Ant1	5190	39.920	5170.000	5209.920	---	---
	Ant2	5190	39.760	5170.240	5210.000	---	---
	Ant1	5230	40.080	5210.000	5250.080	---	---

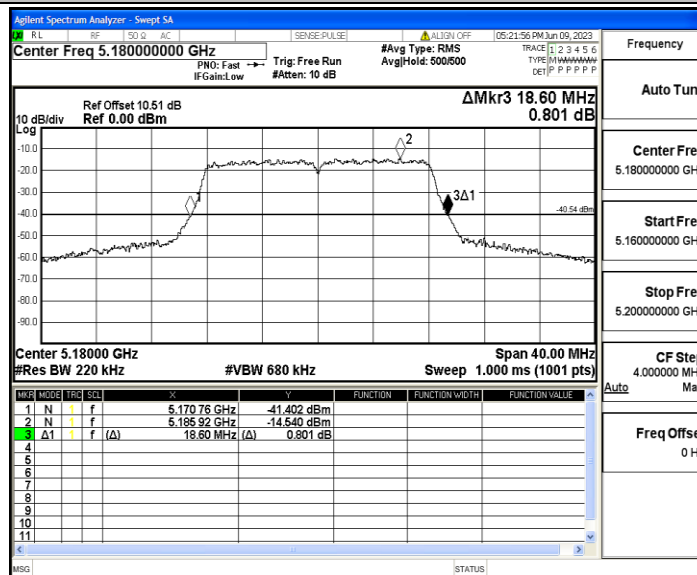
	Ant2	5230	40.320	5209.840	5250.160	---	---
11AC80MIMO	Ant1	5210	80.480	5170.160	5250.640	---	---
	Ant2	5210	80.480	5170.160	5250.640	---	---

Test Graphs

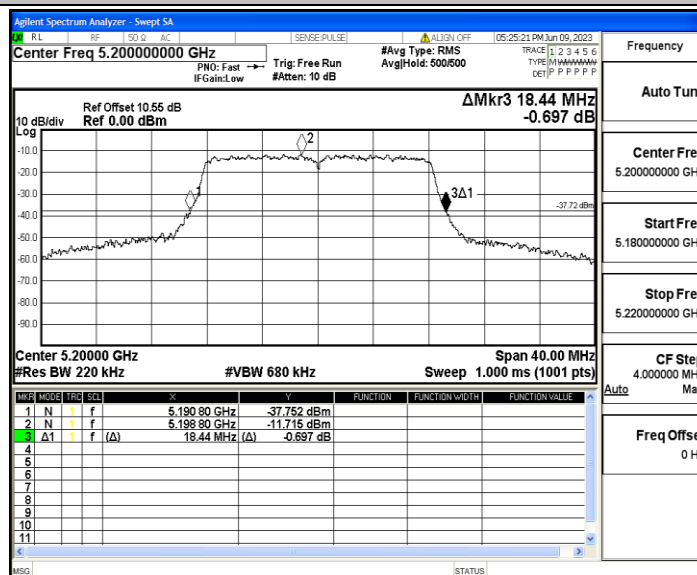
11A_Ant1_5180



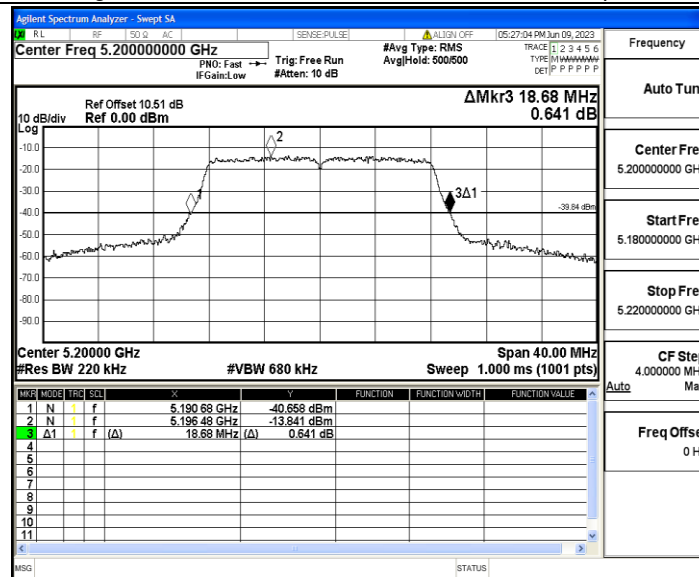
11A_Ant2_5180



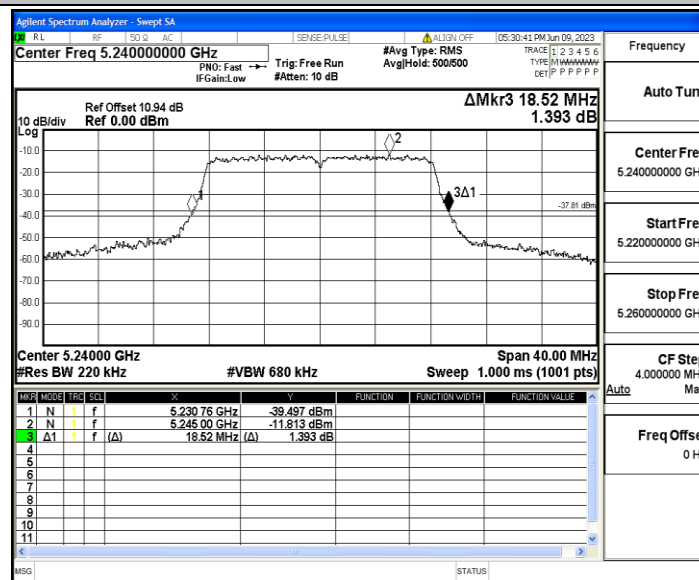
11A_Ant1_5200



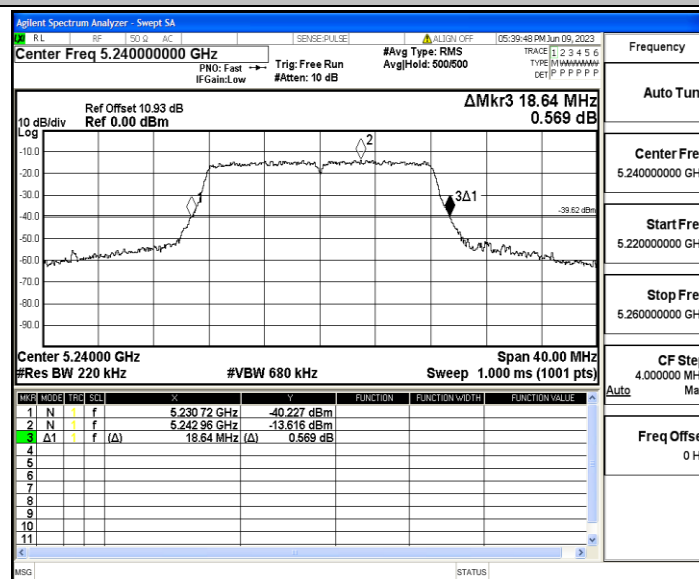
11A_Ant2_5200



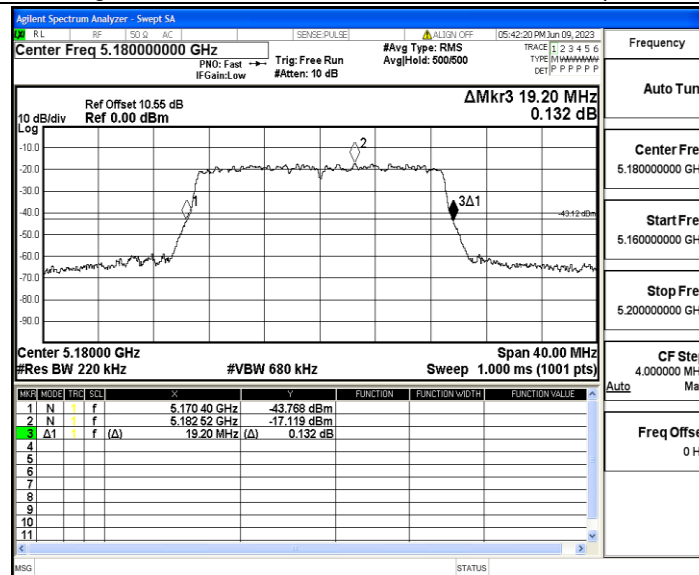
11A_Ant1_5240



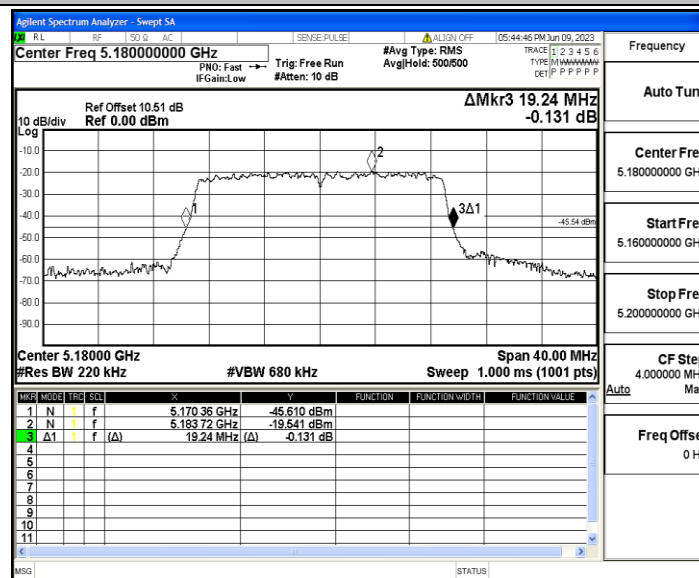
11A_Ant2_5240



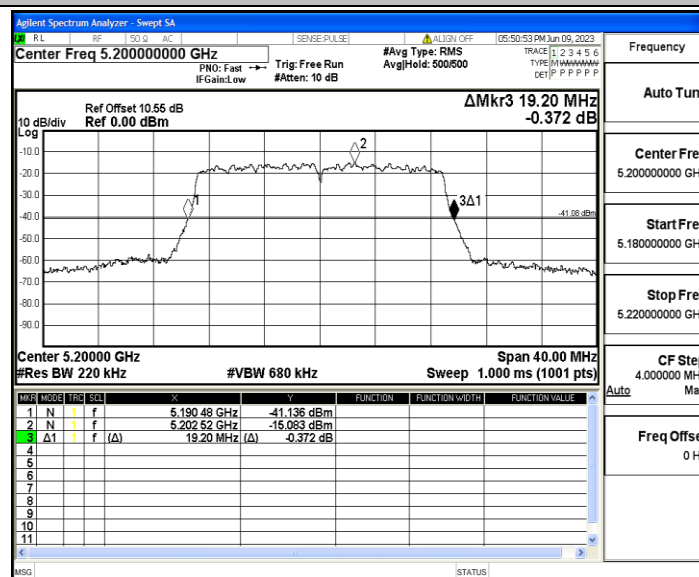
11N20MIMO_Ant1_5180



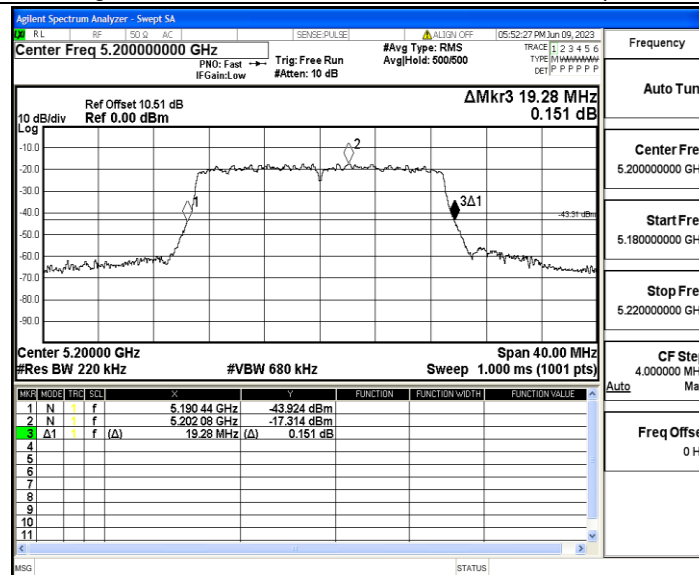
11N20MIMO_Ant2_5180



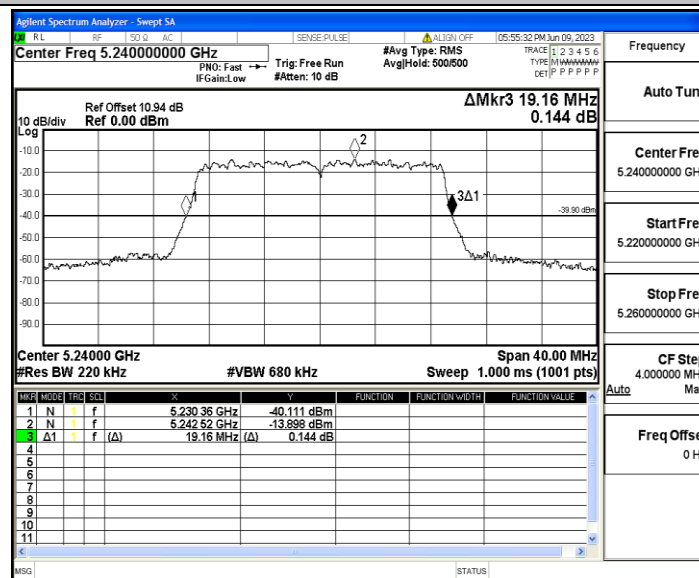
11N20MIMO_Ant1_5200



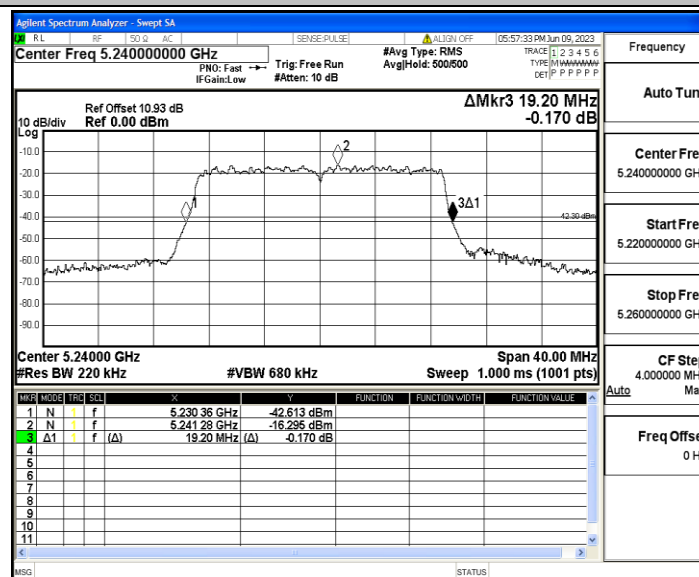
11N20MIMO_Ant2_5200



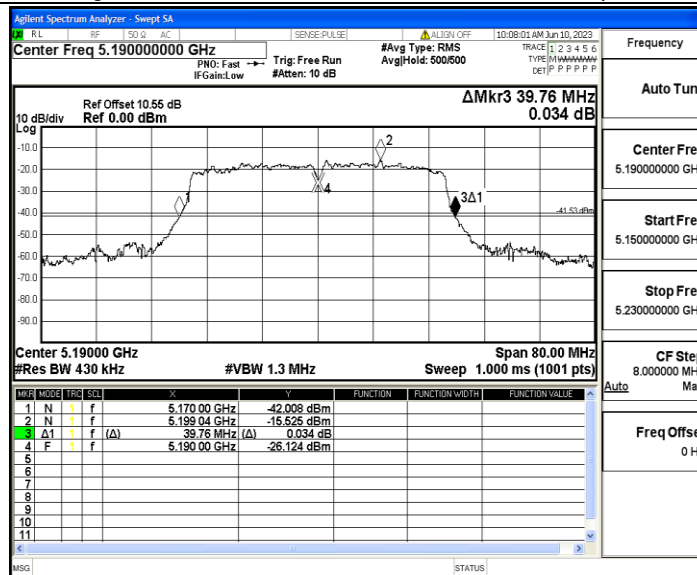
11N20MIMO_Ant1_5240



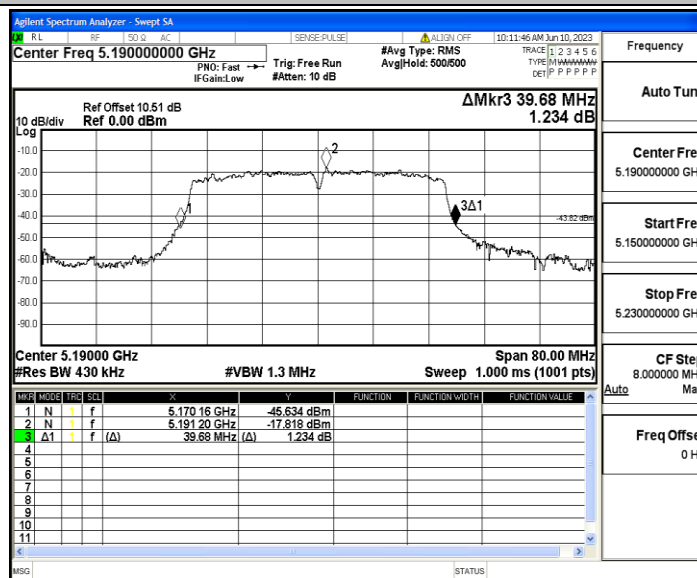
11N20MIMO_Ant2_5240



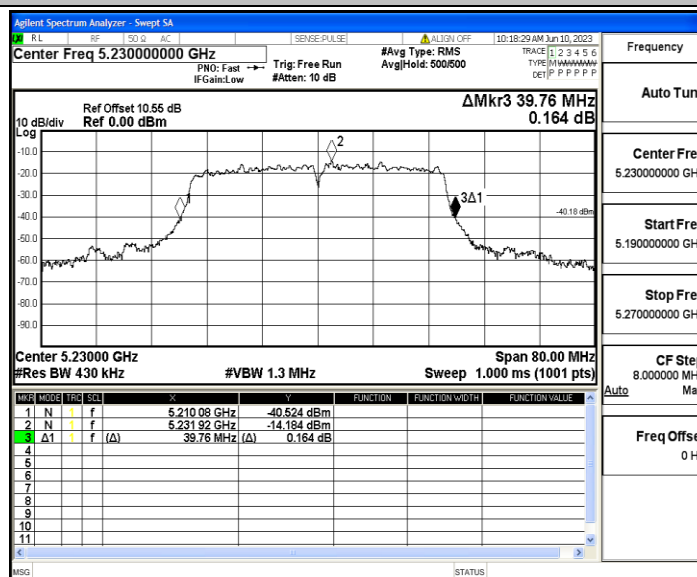
11N40MIMO_Ant1_5190



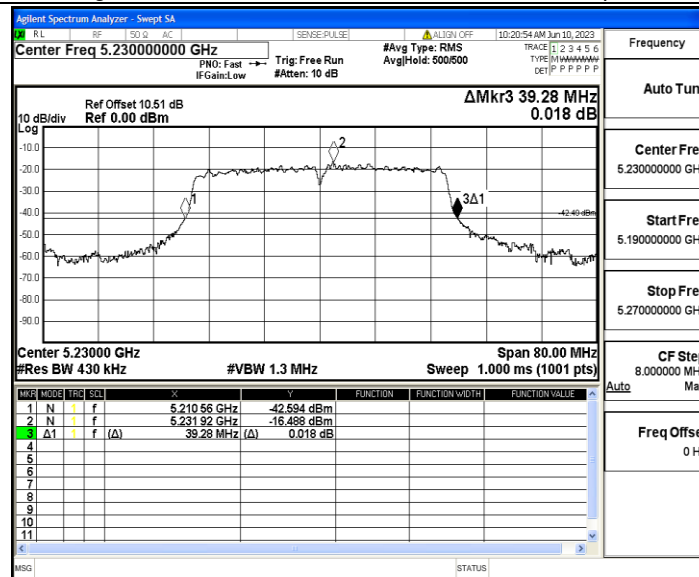
11N40MIMO_Ant2_5190



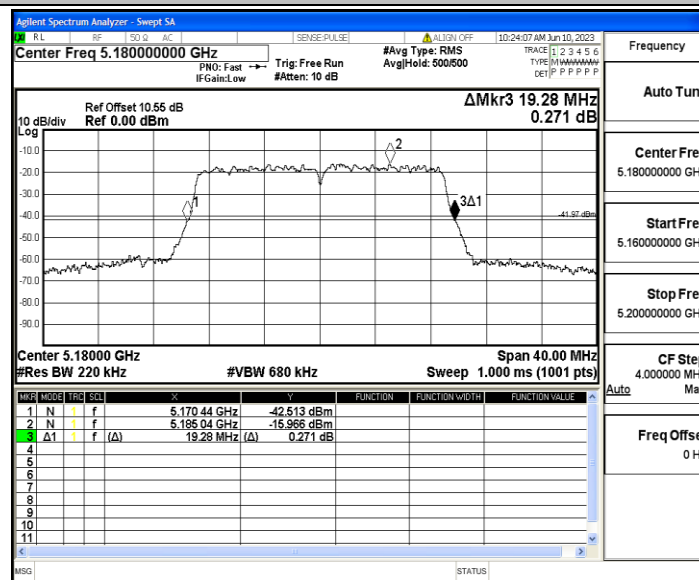
11N40MIMO_Ant1_5230



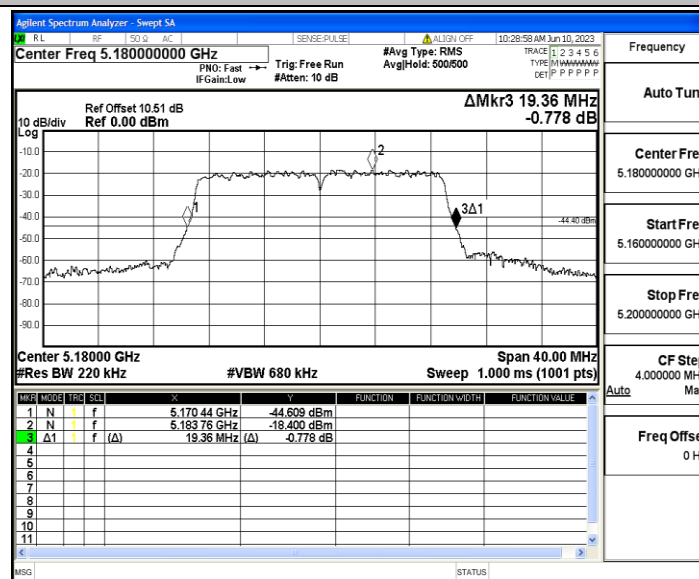
11N40MIMO_Ant2_5230



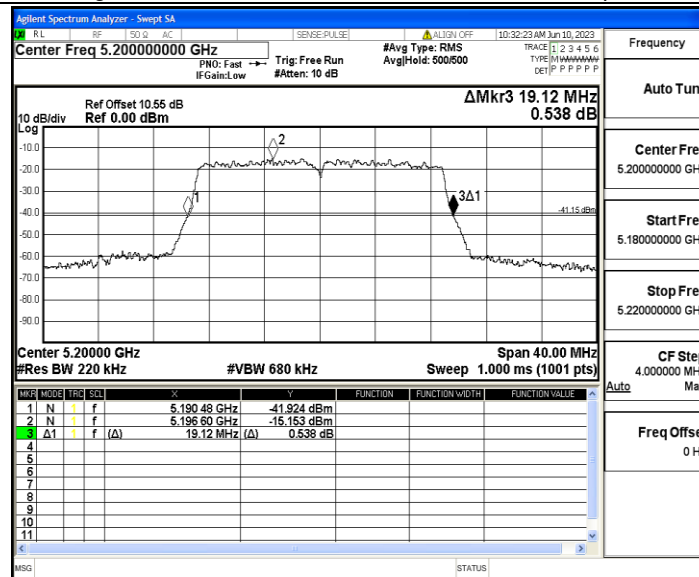
11AC20MIMO_Ant1_5180



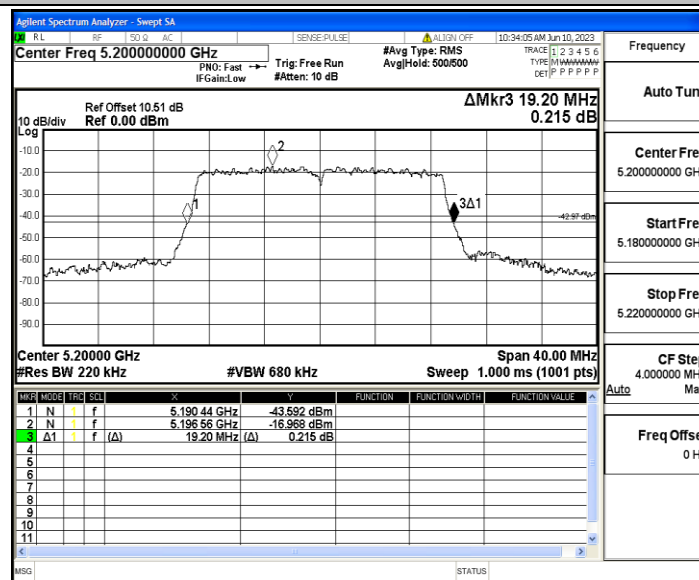
11AC20MIMO_Ant2_5180



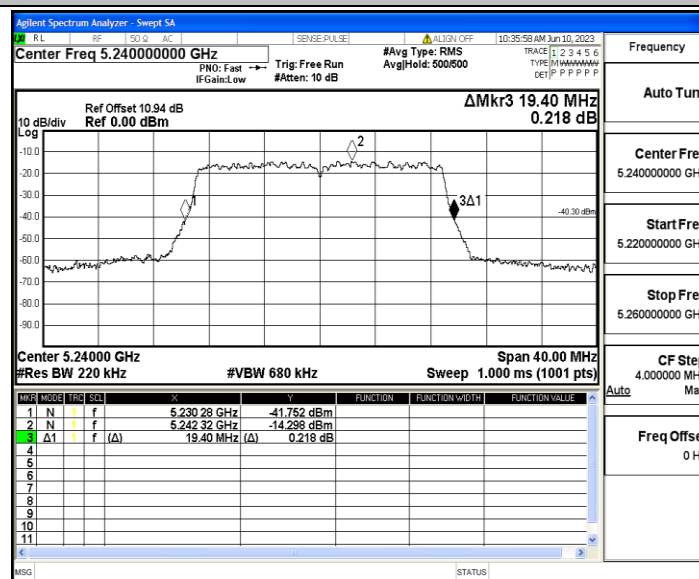
11AC20MIMO_Ant1_5200



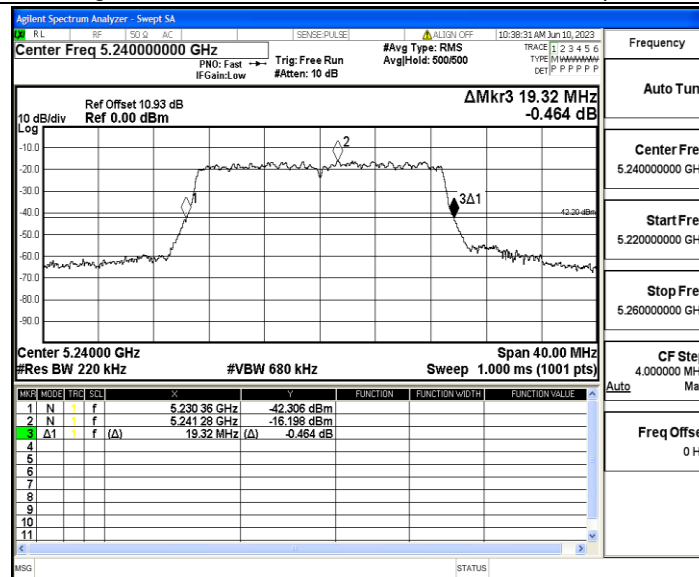
11AC20MIMO_Ant2_5200



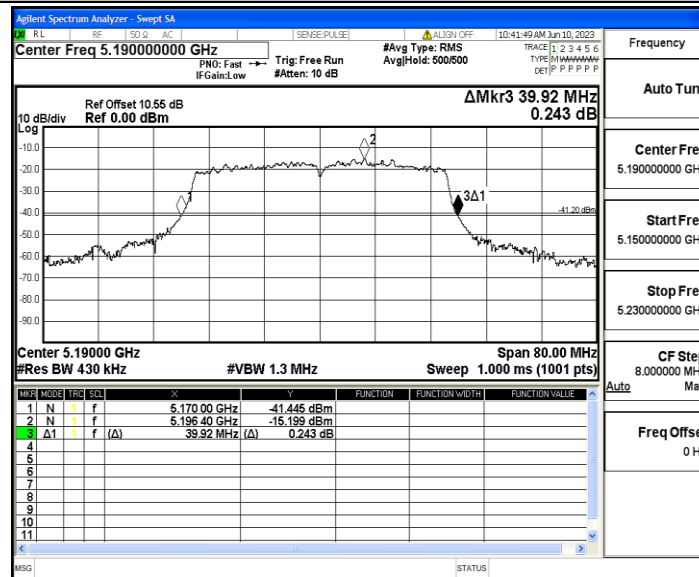
11AC20MIMO_Ant1_5240



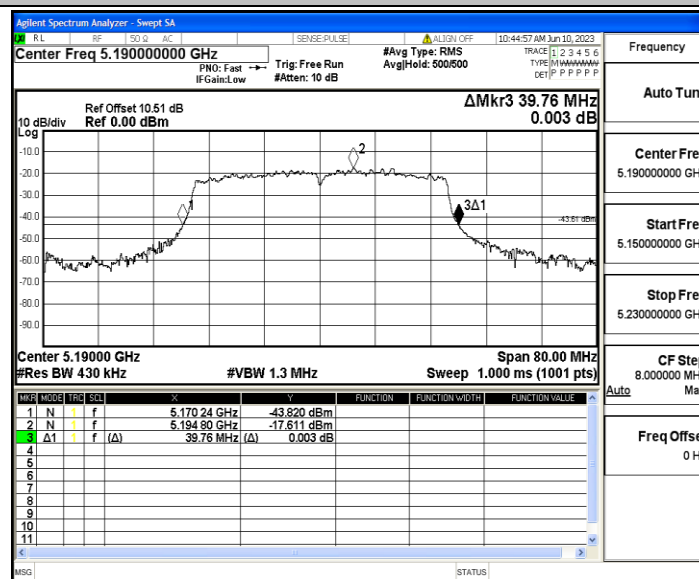
11AC20MIMO_Ant2_5240



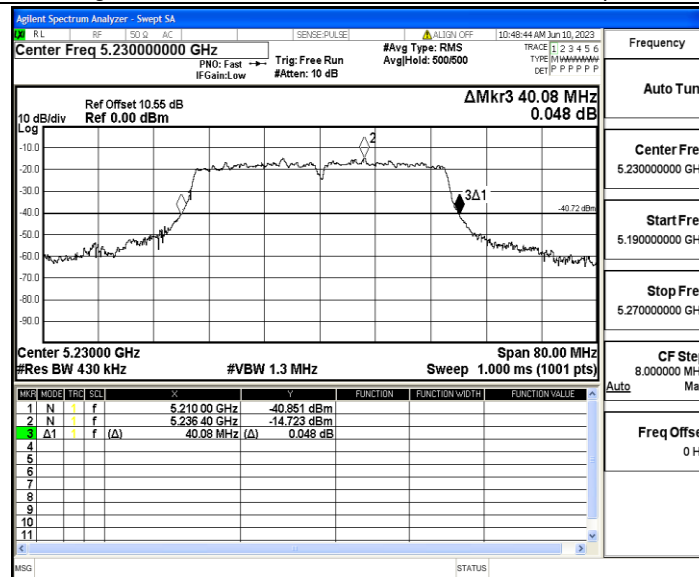
11AC40MIMO_Ant1_5190



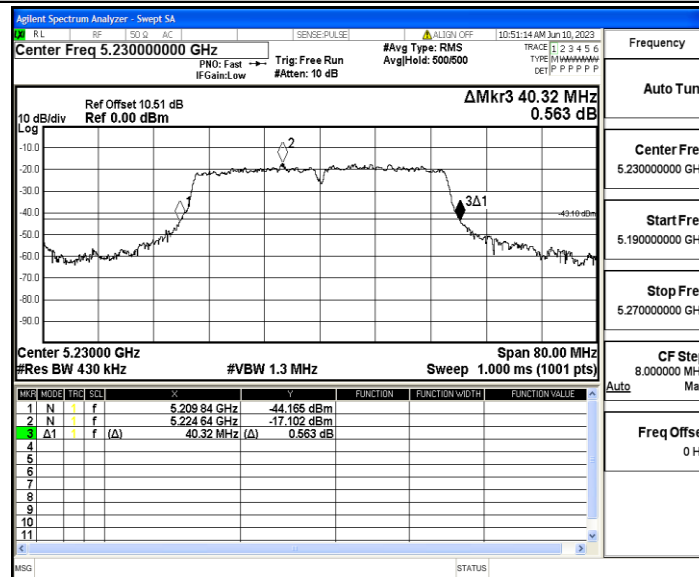
11AC40MIMO_Ant2_5190



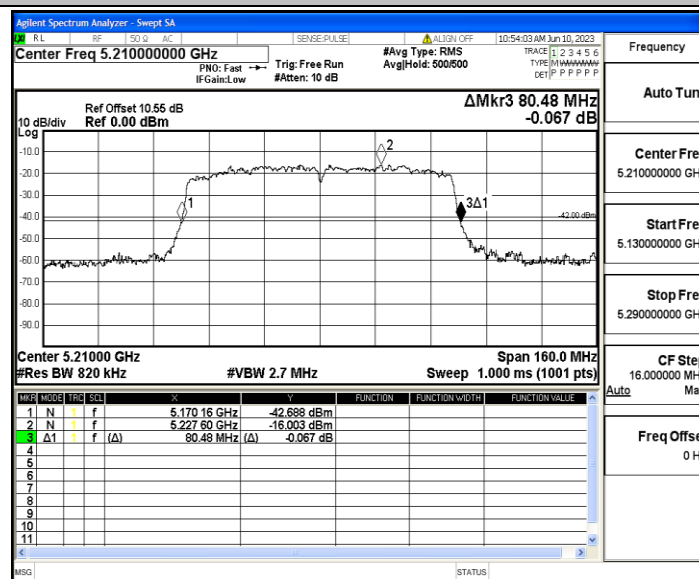
11AC40MIMO_Ant1_5230



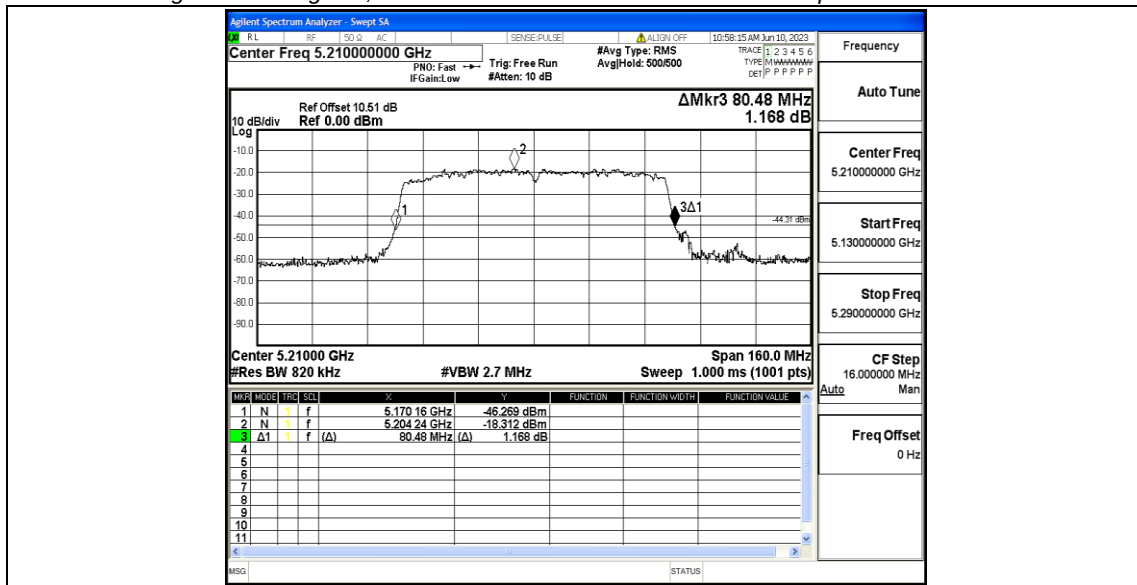
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



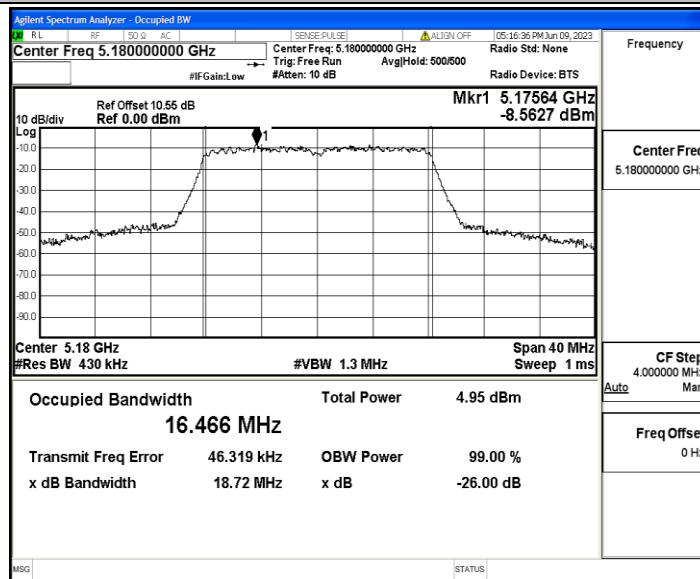
Appendix A2: Occupied channel bandwidth

Test Result

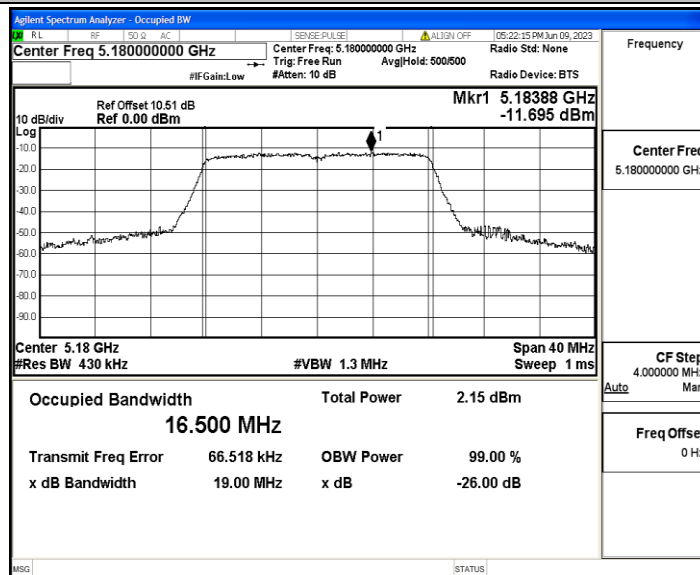
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.466	5171.8133	5188.2793	---	---
	Ant2	5180	16.500	5171.8165	5188.3165	---	---
	Ant1	5200	16.435	5191.8110	5208.2460	---	---
	Ant2	5200	16.493	5191.7894	5208.2824	---	---
	Ant1	5240	16.434	5231.8215	5248.2555	---	---
	Ant2	5240	16.484	5231.8118	5248.2958	---	---
11N20MIMO	Ant1	5180	17.712	5171.1759	5188.8879	---	---
	Ant2	5180	17.733	5171.1612	5188.8942	---	---
	Ant1	5200	17.656	5191.2030	5208.8590	---	---
	Ant2	5200	17.665	5191.2033	5208.8683	---	---
	Ant1	5240	17.682	5231.1955	5248.8775	---	---
	Ant2	5240	17.679	5231.2027	5248.8817	---	---
11N40MIMO	Ant1	5190	36.228	5171.9010	5208.1290	---	---
	Ant2	5190	36.225	5171.9316	5208.1566	---	---
	Ant1	5230	36.186	5211.9740	5248.1600	---	---
	Ant2	5230	36.117	5212.1019	5248.2189	---	---
11AC20MIMO	Ant1	5180	17.707	5171.1856	5188.8926	---	---
	Ant2	5180	17.692	5171.2066	5188.8986	---	---
	Ant1	5200	17.633	5191.2113	5208.8443	---	---
	Ant2	5200	17.645	5191.2028	5208.8478	---	---
	Ant1	5240	17.696	5231.1707	5248.8667	---	---
	Ant2	5240	17.684	5231.1911	5248.8751	---	---
11AC40MIMO	Ant1	5190	36.211	5171.9859	5208.1969	---	---
	Ant2	5190	36.151	5172.0435	5208.1945	---	---
	Ant1	5230	36.223	5212.0192	5248.2422	---	---
	Ant2	5230	36.291	5211.9848	5248.2758	---	---
11AC80MIMO	Ant1	5210	75.111	5172.7042	5247.8152	---	---
	Ant2	5210	75.073	5172.8355	5247.9085	---	---

Test Graphs

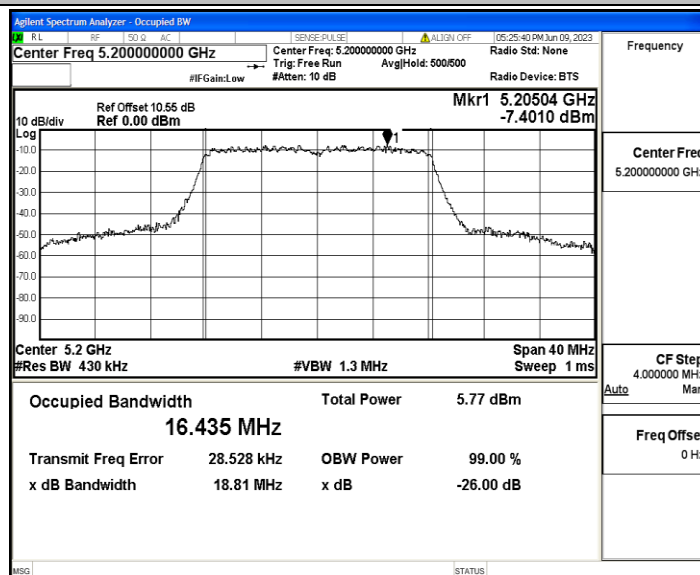
11A_Ant1_5180



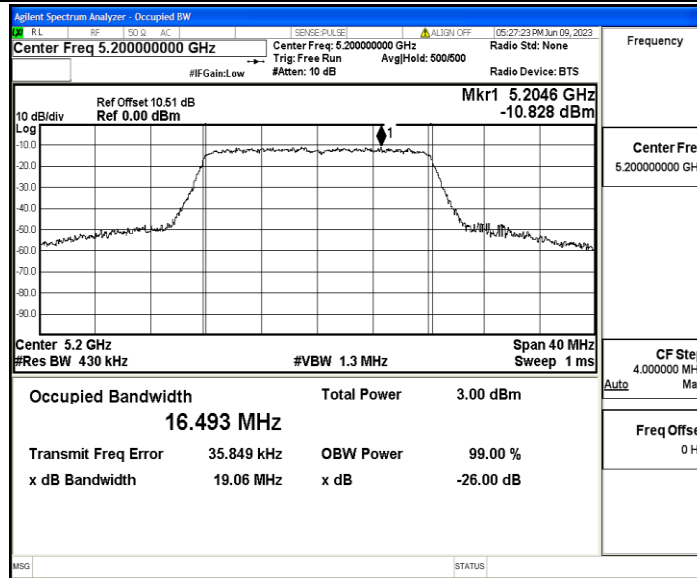
11A_Ant2_5180



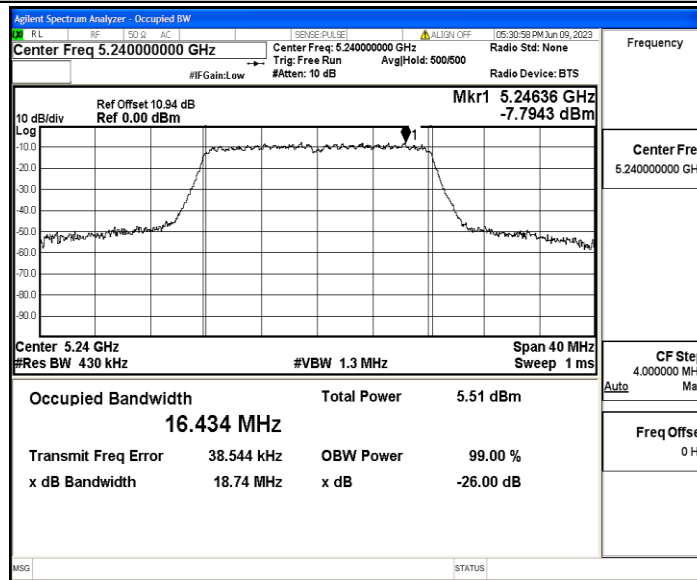
11A_Ant1_5200



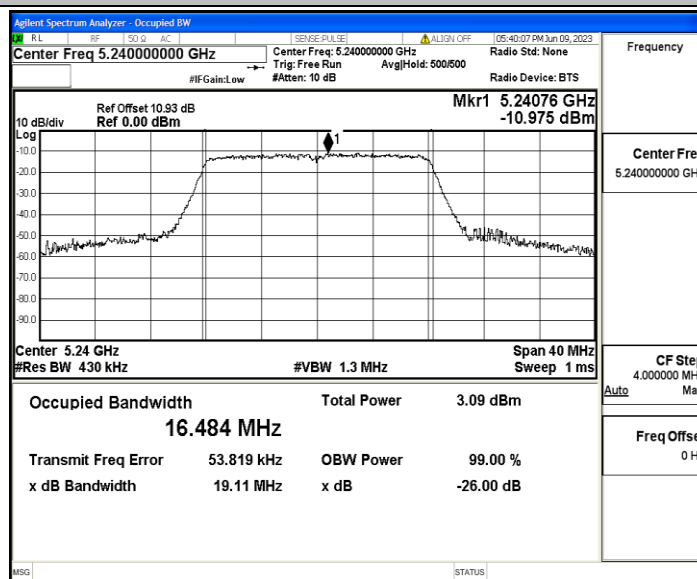
11A_Ant2_5200



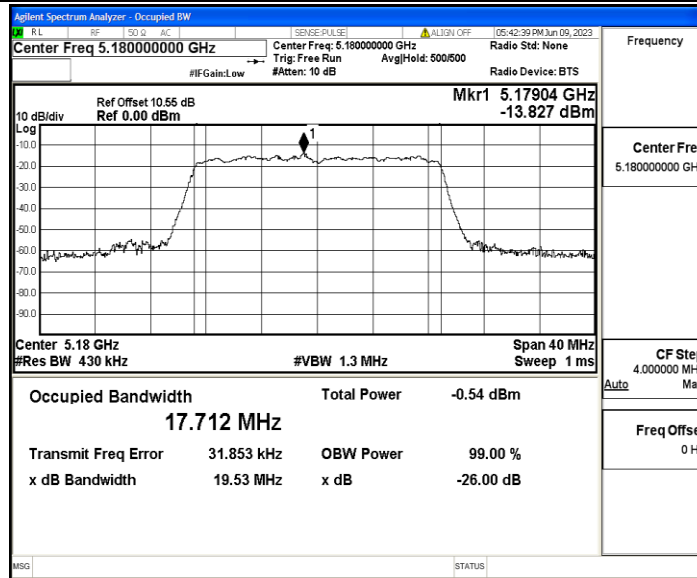
11A_Ant1_5240



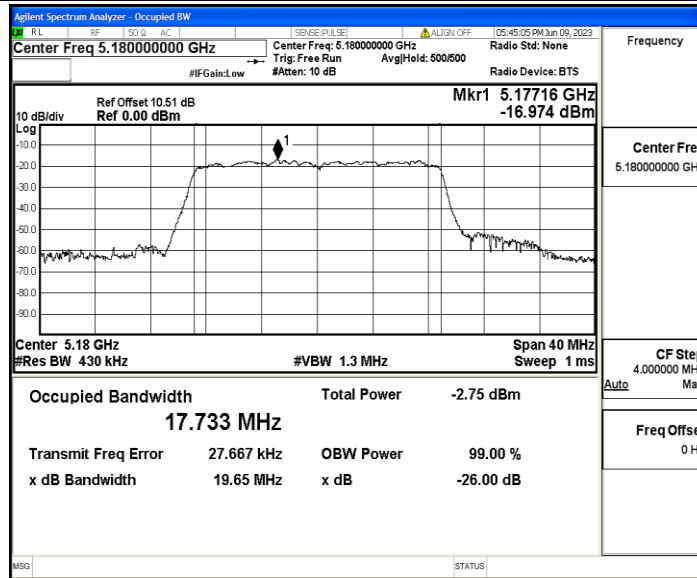
11A_Ant2_5240



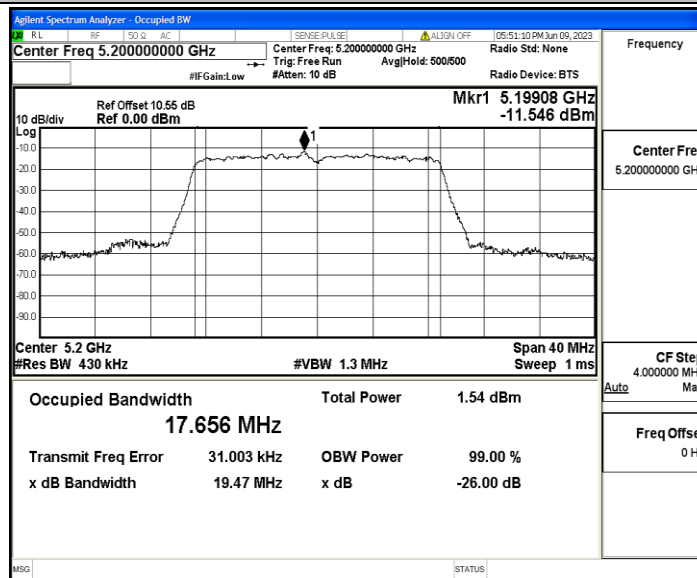
11N20MIMO_Ant1_5180



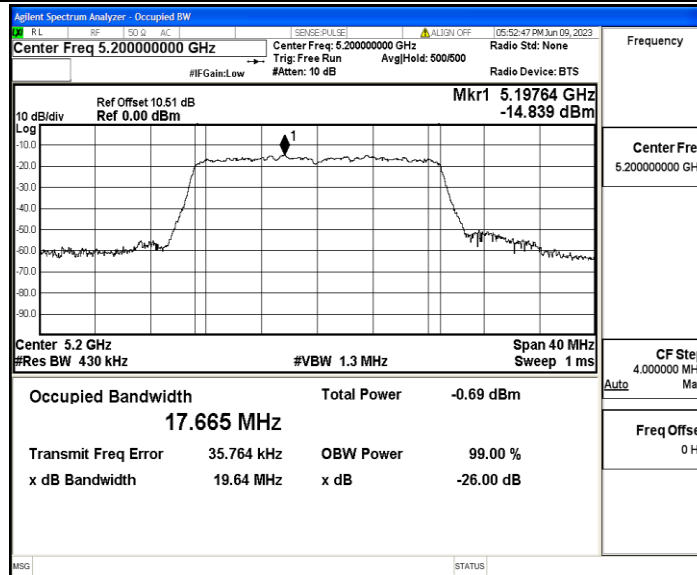
11N20MIMO_Ant2_5180



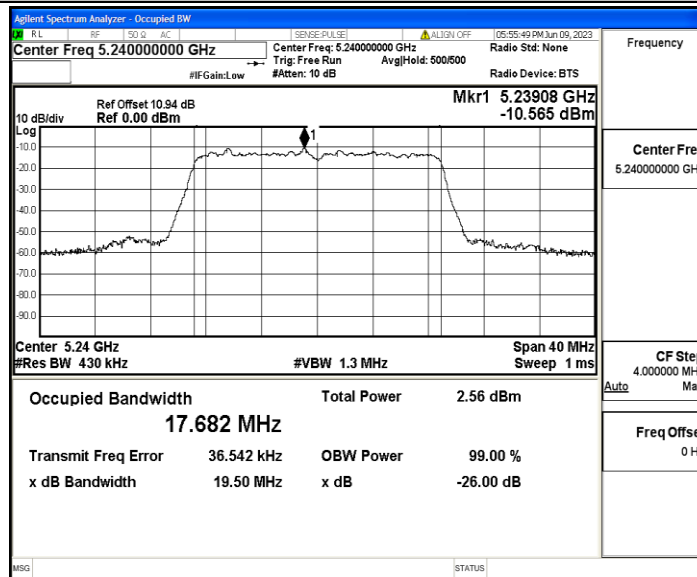
11N20MIMO_Ant1_5200



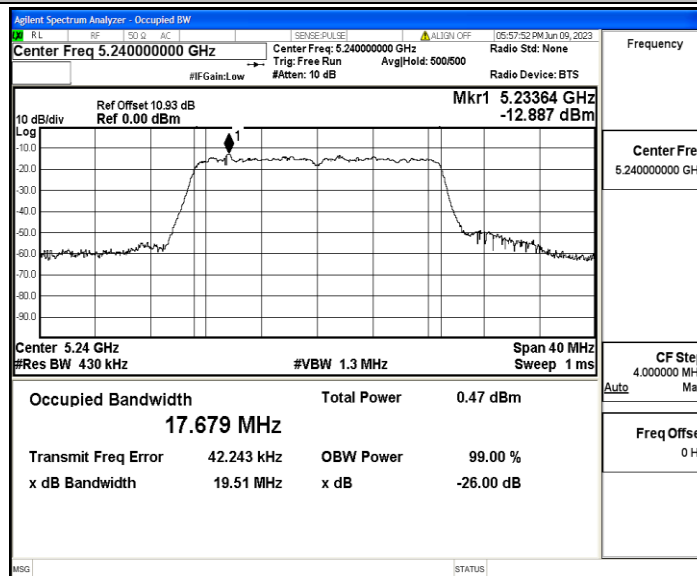
11N20MIMO_Ant2_5200



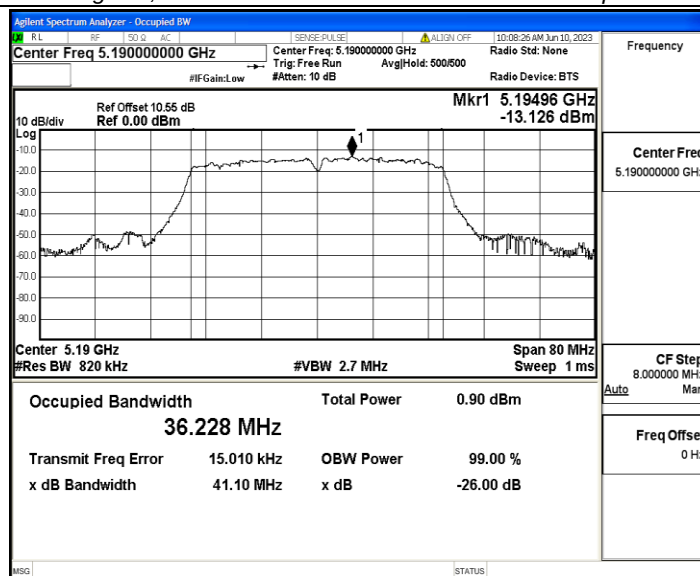
11N20MIMO_Ant1_5240



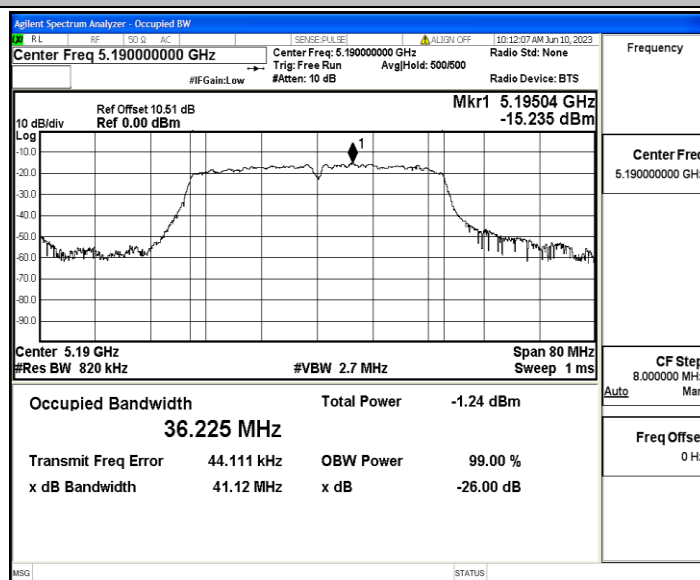
11N20MIMO_Ant2_5240



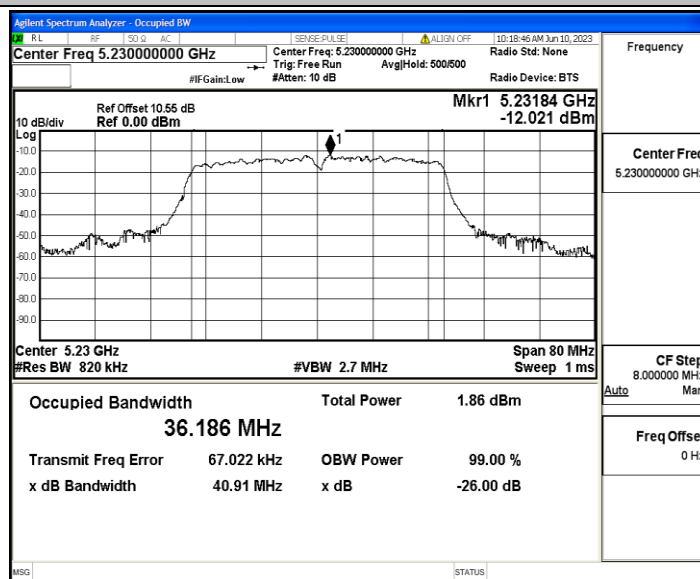
11N40MIMO_Ant1_5190



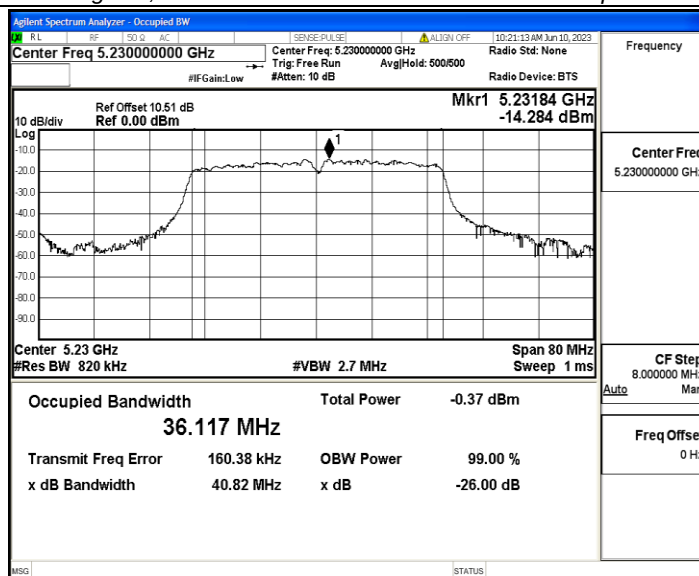
11N40MIMO_Ant2_5190



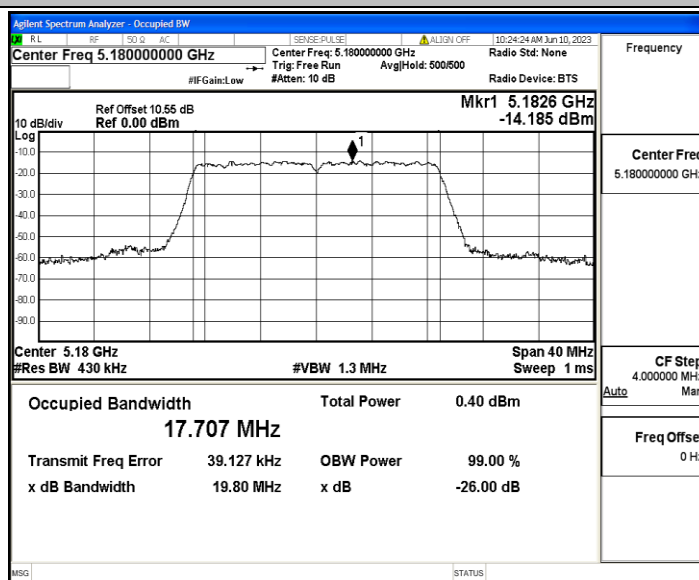
11N40MIMO_Ant1_5230



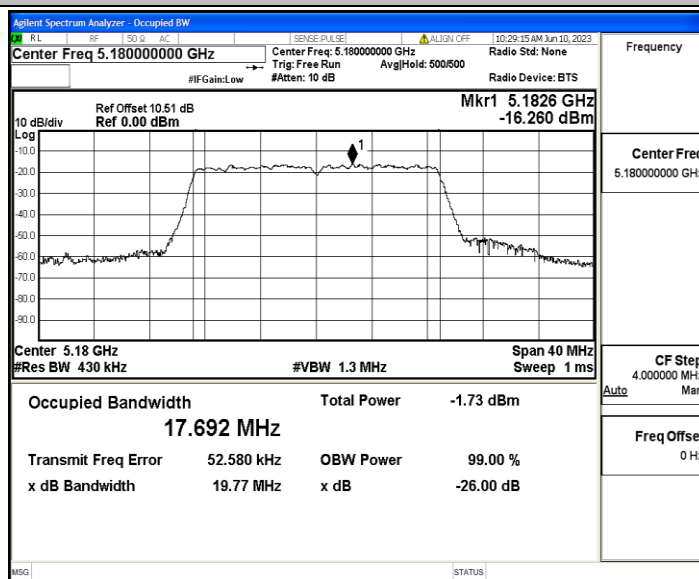
11N40MIMO_Ant2_5230



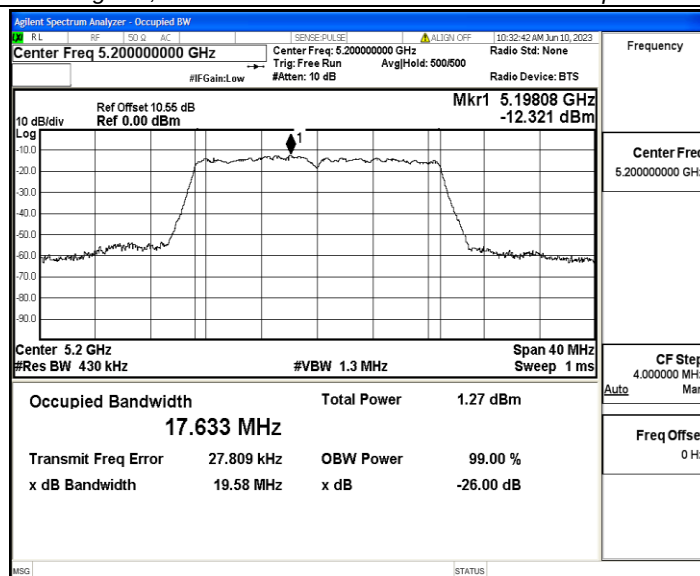
11AC20MIMO_Ant1_5180



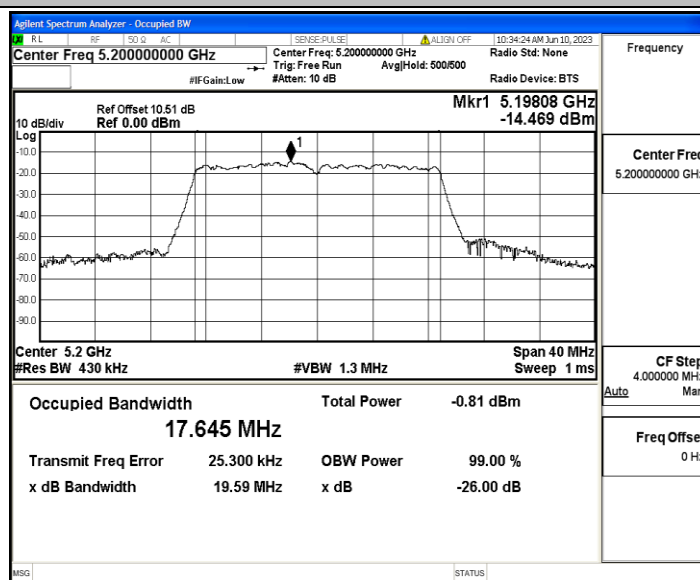
11AC20MIMO_Ant2_5180



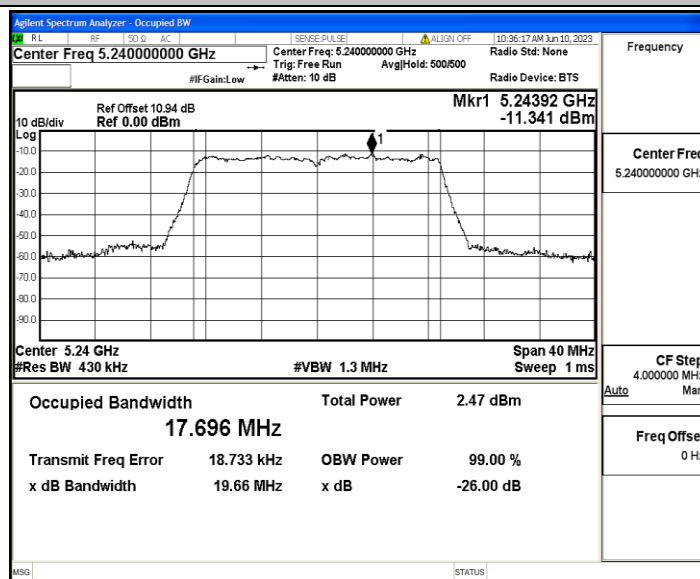
11AC20MIMO_Ant1_5200



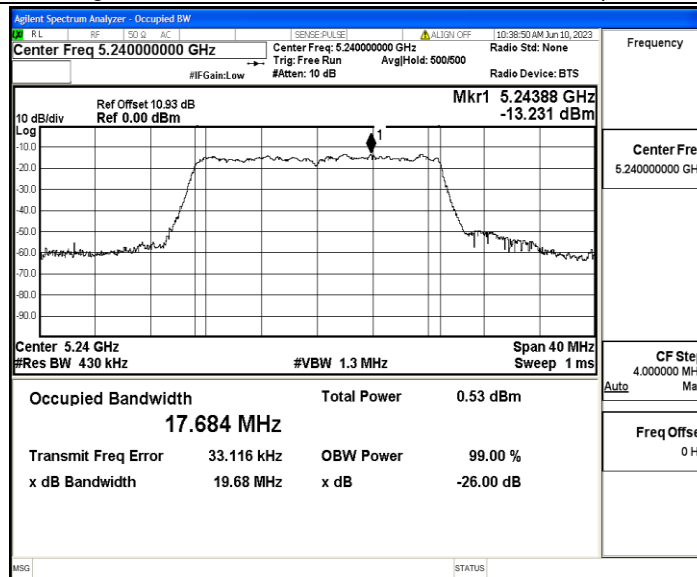
11AC20MIMO_Ant2_5200



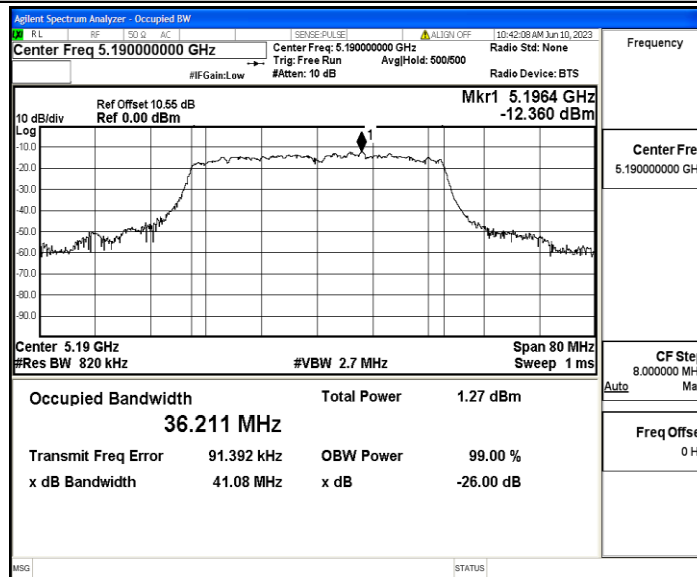
11AC20MIMO_Ant1_5240



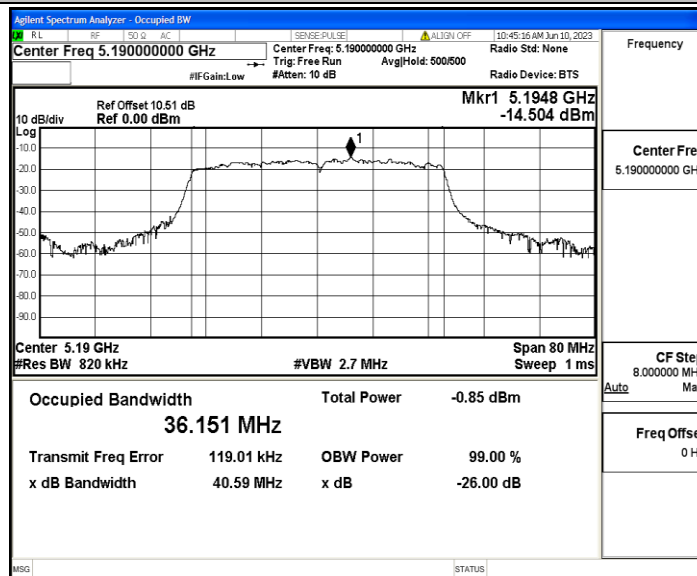
11AC20MIMO_Ant2_5240



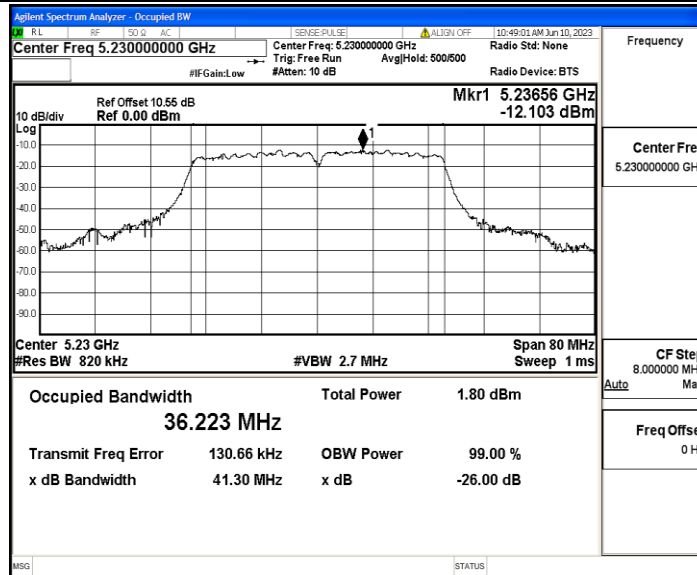
11AC40MIMO_Ant1_5190



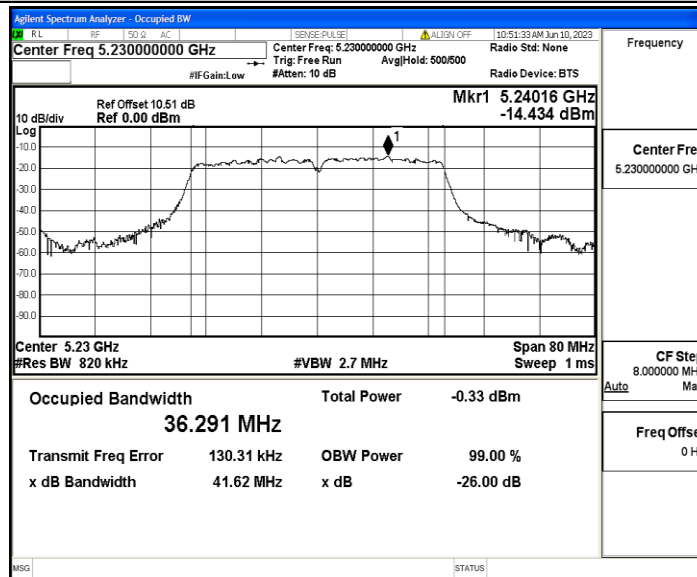
11AC40MIMO_Ant2_5190



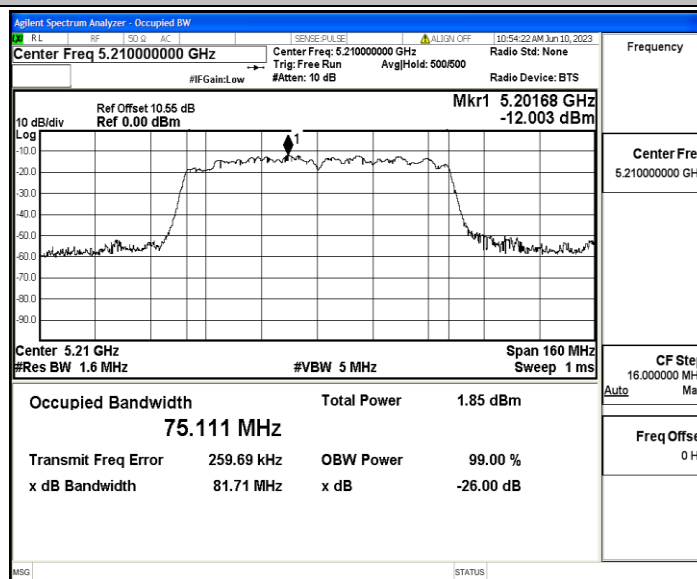
11AC40MIMO_Ant1_5230



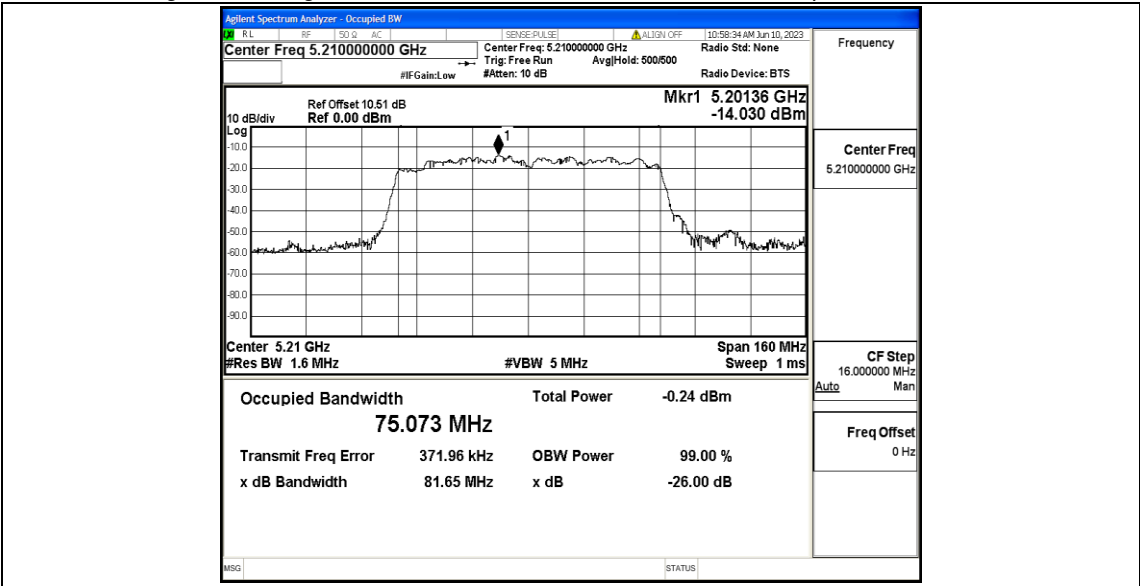
11AC40MIMO_Ant2_5230



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	-2.82	≤23.98	PASS
	Ant2	5180	-4.42	≤23.98	PASS
	Ant1	5200	-2.62	≤23.98	PASS
	Ant2	5200	-4.66	≤23.98	PASS
	Ant1	5240	-2.79	≤23.98	PASS
	Ant2	5240	-4.35	≤23.98	PASS
11N20MIMO	Ant1	5180	-5.36	≤23.98	PASS
	Ant2	5180	-7.56	≤23.98	PASS
	total	5180	-3.31	≤23.98	PASS
	Ant1	5200	-5.45	≤23.98	PASS
	Ant2	5200	-7.52	≤23.98	PASS
	total	5200	-3.35	≤23.98	PASS
	Ant1	5240	-4.96	≤23.98	PASS
	Ant2	5240	-7.00	≤23.98	PASS
	total	5240	-2.85	≤23.98	PASS
11N40MIMO	Ant1	5190	-5.19	≤23.98	PASS
	Ant2	5190	-7.47	≤23.98	PASS
	total	5190	-3.17	≤23.98	PASS
	Ant1	5230	-5.16	≤23.98	PASS
	Ant2	5230	-7.58	≤23.98	PASS
	total	5230	-3.19	≤23.98	PASS
11AC20MIMO	Ant1	5180	-5.55	≤23.98	PASS
	Ant2	5180	-7.57	≤23.98	PASS
	total	5180	-3.43	≤23.98	PASS
	Ant1	5200	-4.70	≤23.98	PASS
	Ant2	5200	-6.81	≤23.98	PASS
	total	5200	-2.62	≤23.98	PASS
	Ant1	5240	-4.82	≤23.98	PASS
	Ant2	5240	-6.74	≤23.98	PASS
	total	5240	-2.66	≤23.98	PASS
11AC40MIMO	Ant1	5190	-4.80	≤23.98	PASS
	Ant2	5190	-7.32	≤23.98	PASS
	total	5190	-2.87	≤23.98	PASS
	Ant1	5230	-5.32	≤23.98	PASS
	Ant2	5230	-7.35	≤23.98	PASS
	total	5230	-3.21	≤23.98	PASS
11AC80MIMO	Ant1	5210	-5.41	≤23.98	PASS
	Ant2	5210	-6.89	≤23.98	PASS
	total	5210	-3.08	≤23.98	PASS

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

Appendix C: Maximum power spectral density

Test Result

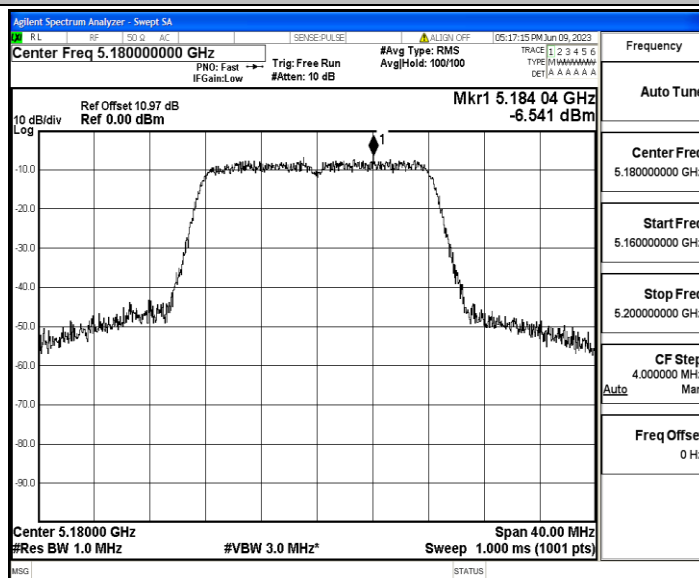
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-6.54	≤11.00	PASS
	Ant2	5180	-9.27	≤11.00	PASS
	Ant1	5200	-6.17	≤11.00	PASS
	Ant2	5200	-10.52	≤11.00	PASS
	Ant1	5240	-6.8	≤11.00	PASS
	Ant2	5240	-8.68	≤11.00	PASS
11N20MIMO	Ant1	5180	-7.39	≤11.00	PASS
	Ant2	5180	-9.59	≤11.00	PASS
	total	5180	-5.34	≤11.00	PASS
	Ant1	5200	-7.61	≤11.00	PASS
	Ant2	5200	-9.95	≤11.00	PASS
	total	5200	-5.61	≤11.00	PASS
	Ant1	5240	-6.59	≤11.00	PASS
	Ant2	5240	-8.67	≤11.00	PASS
	total	5240	-4.50	≤11.00	PASS
11N40MIMO	Ant1	5190	-9.91	≤11.00	PASS
	Ant2	5190	-12.07	≤11.00	PASS
	total	5190	-7.85	≤11.00	PASS
	Ant1	5230	-8.34	≤11.00	PASS
	Ant2	5230	-11.26	≤11.00	PASS
	total	5230	-6.55	≤11.00	PASS
11AC20MIMO	Ant1	5180	-7.74	≤11.00	PASS
	Ant2	5180	-9.87	≤11.00	PASS
	total	5180	-5.67	≤11.00	PASS
	Ant1	5200	-7.16	≤11.00	PASS
	Ant2	5200	-9.52	≤11.00	PASS
	total	5200	-5.17	≤11.00	PASS
	Ant1	5240	-6.63	≤11.00	PASS
	Ant2	5240	-8.29	≤11.00	PASS
	total	5240	-4.37	≤11.00	PASS
11AC40MIMO	Ant1	5190	-7.76	≤11.00	PASS
	Ant2	5190	-10.66	≤11.00	PASS
	total	5190	-5.96	≤11.00	PASS
	Ant1	5230	-7.25	≤11.00	PASS
	Ant2	5230	-10.2	≤11.00	PASS
	total	5230	-5.47	≤11.00	PASS
11AC80MIMO	Ant1	5210	-11.1	≤11.00	PASS
	Ant2	5210	-12.76	≤11.00	PASS
	total	5210	-8.84	≤11.00	PASS

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

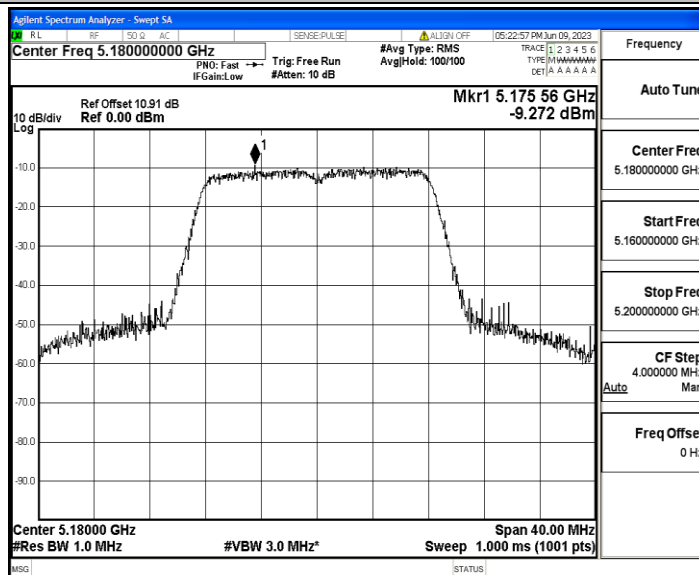
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

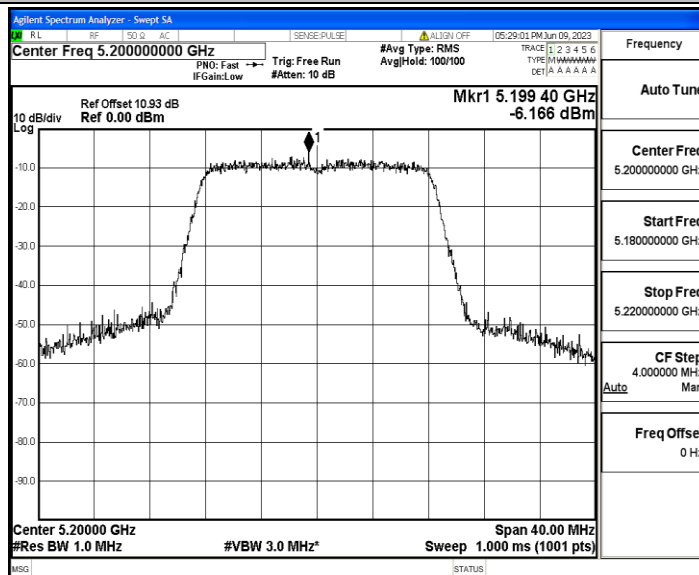
11A_Ant1_5180



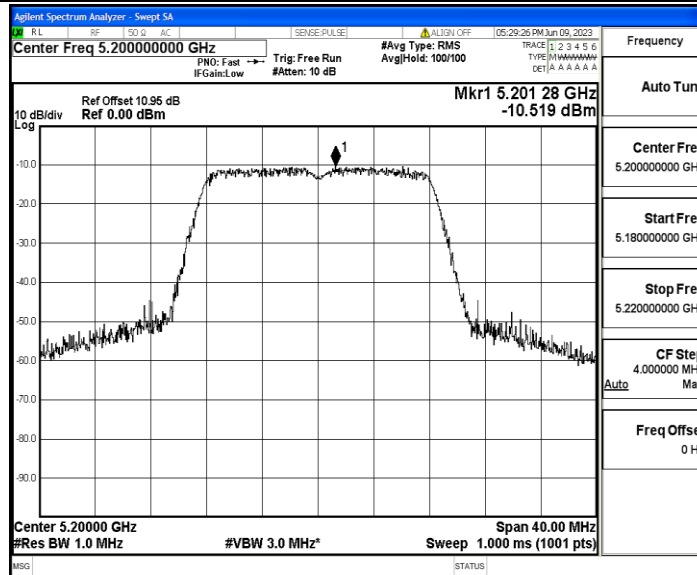
11A_Ant2_5180



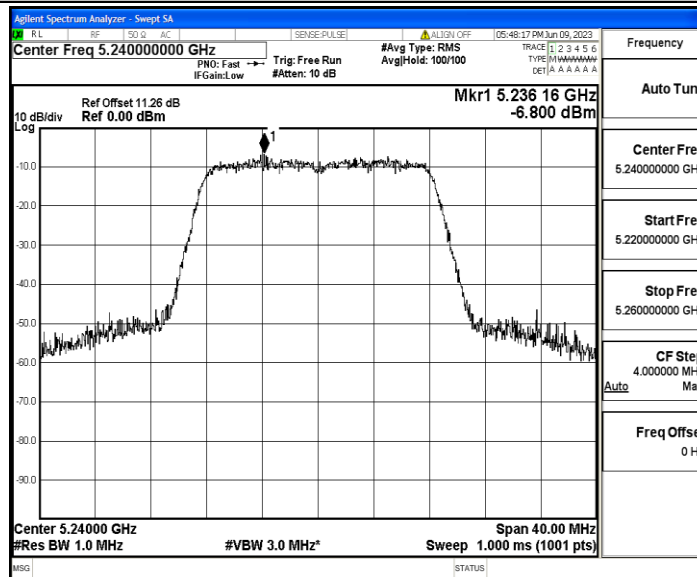
11A_Ant1_5200



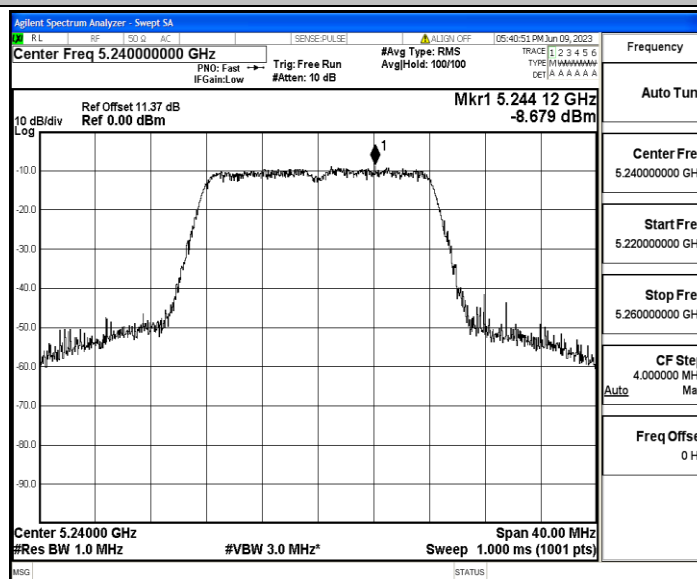
11A_Ant2_5200



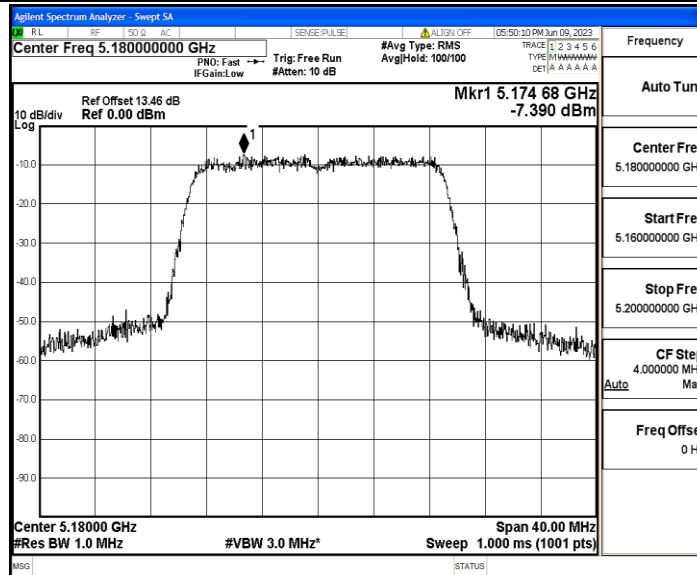
11A_Ant1_5240



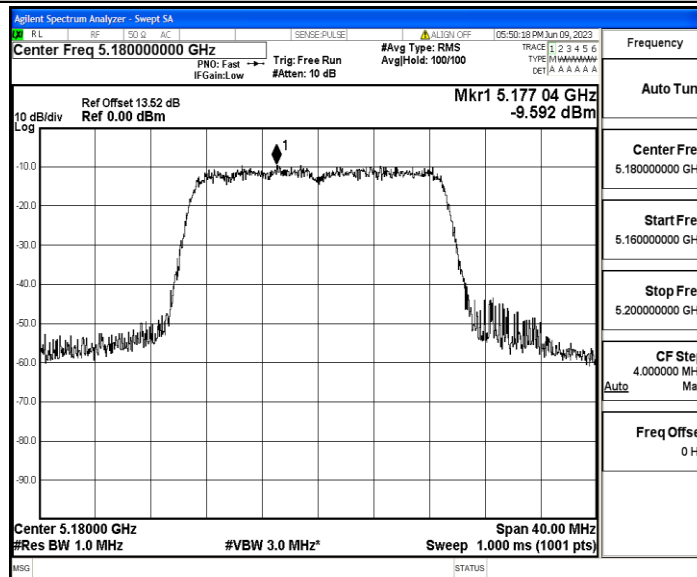
11A_Ant2_5240



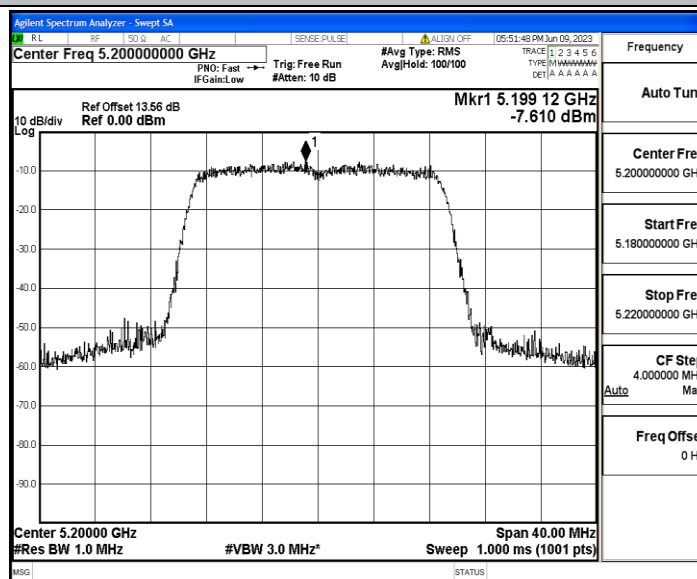
11N20MIMO_Ant1_5180



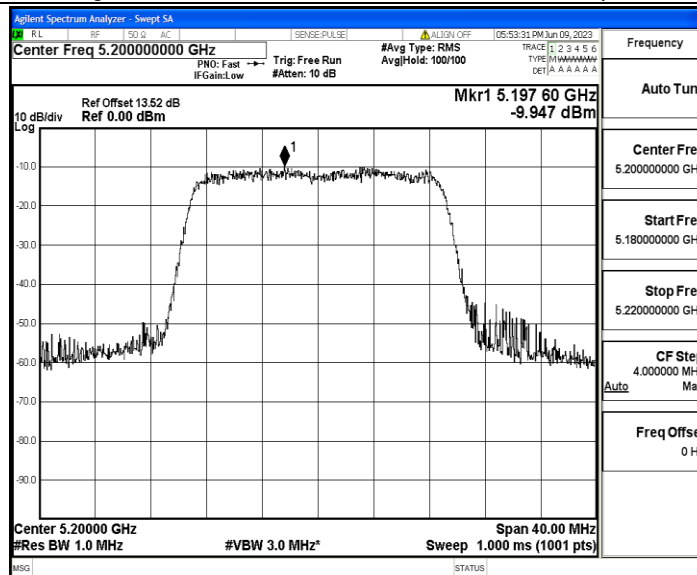
11N20MIMO_Ant2_5180



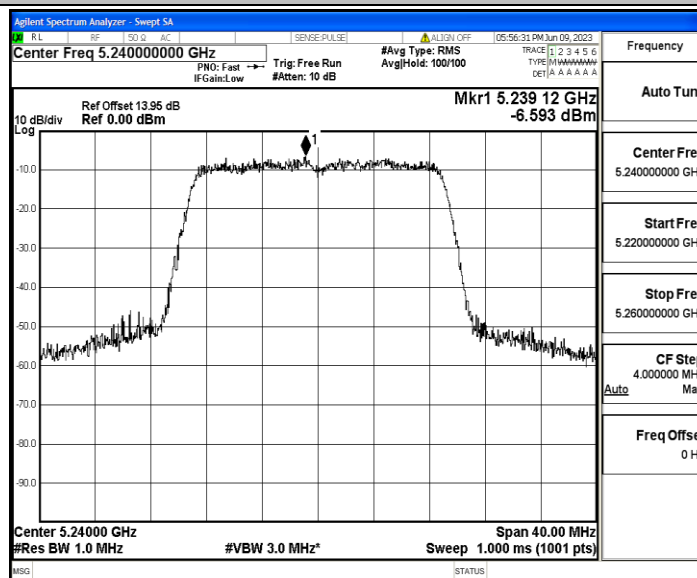
11N20MIMO_Ant1_5200



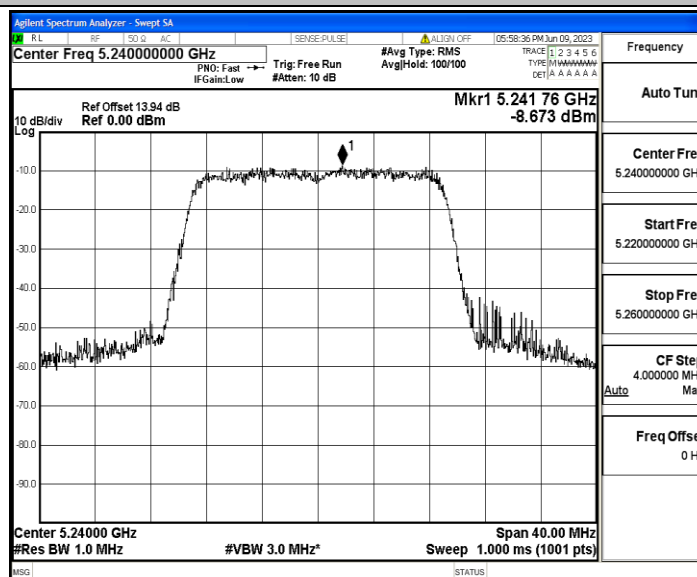
11N20MIMO_Ant2_5200



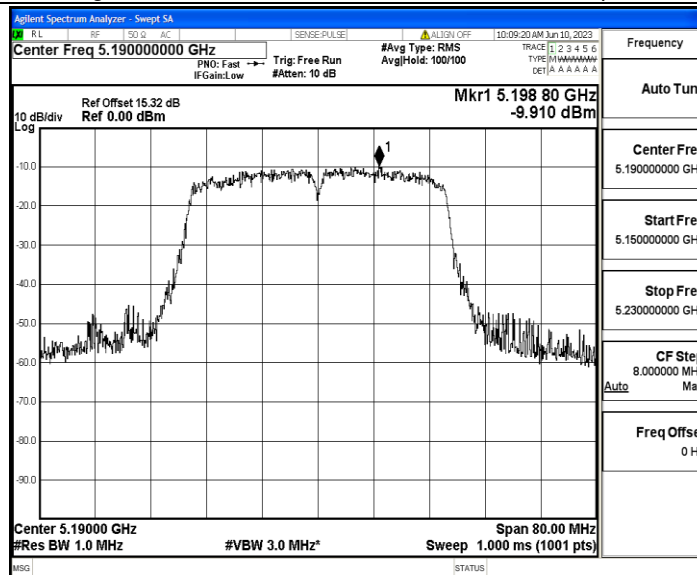
11N20MIMO_Ant1_5240



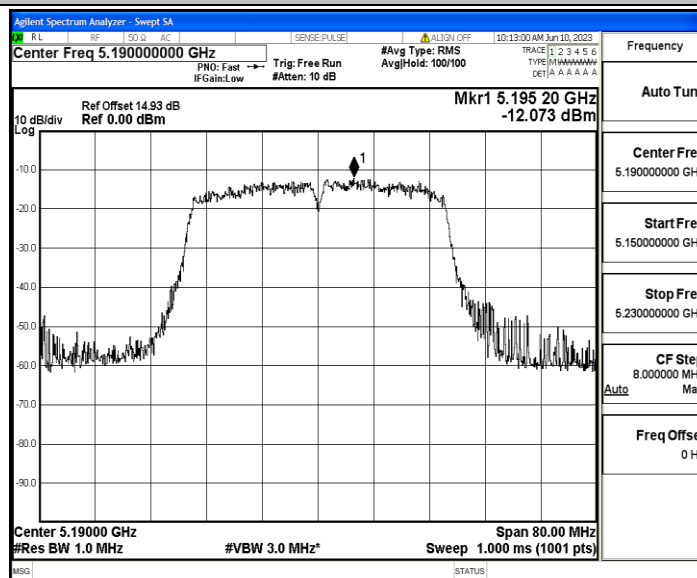
11N20MIMO_Ant2_5240



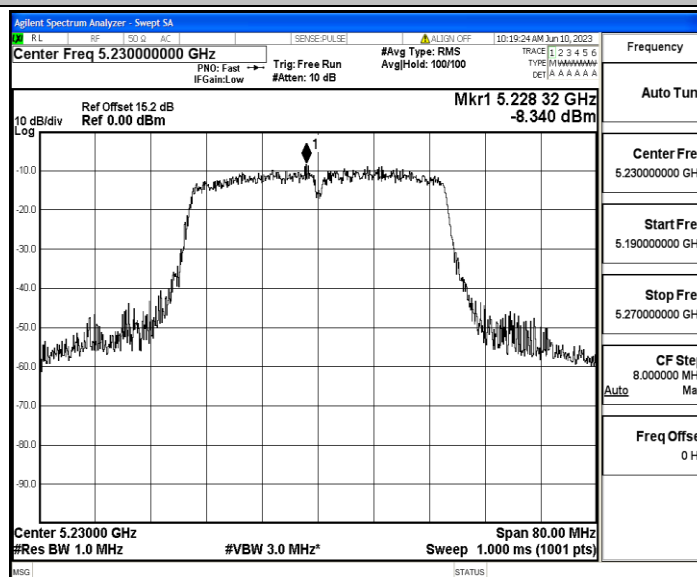
11N40MIMO_Ant1_5190



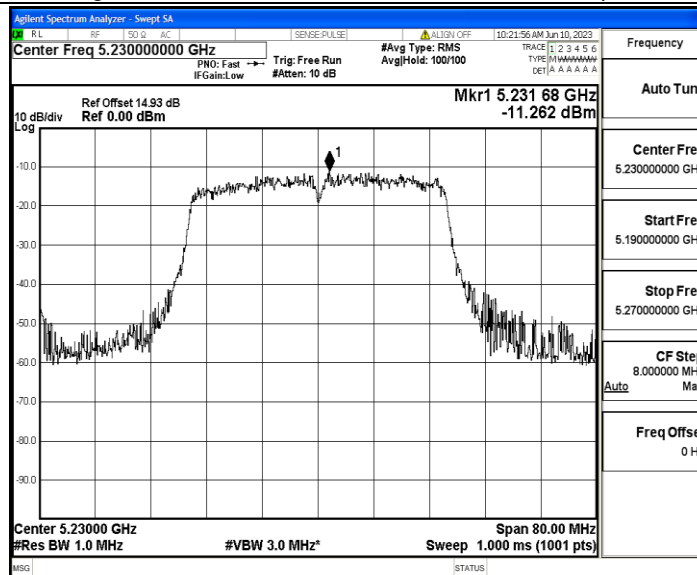
11N40MIMO_Ant2_5190



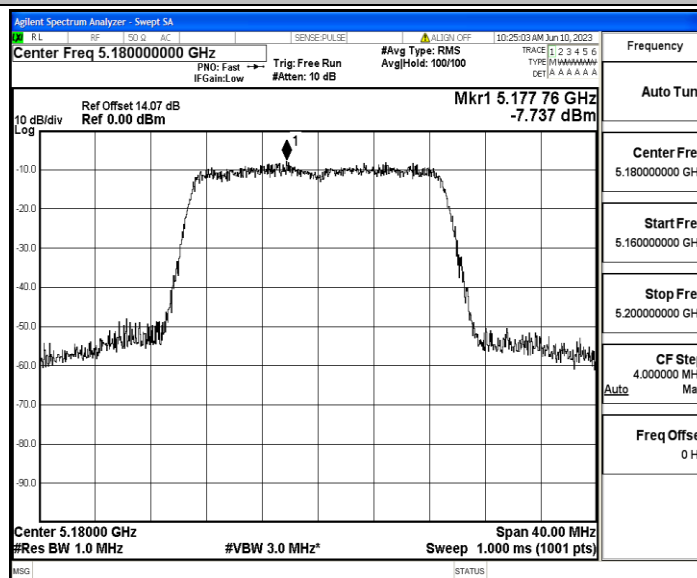
11N40MIMO_Ant1_5230



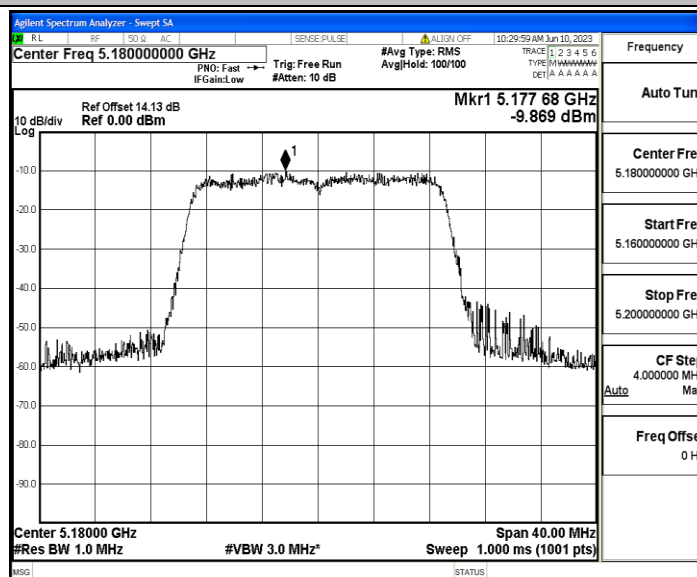
11N40MIMO_Ant2_5230



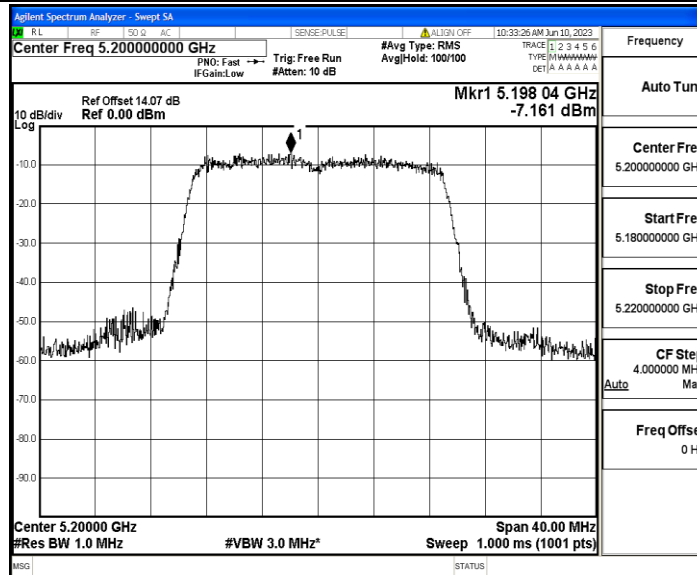
11AC20MIMO_Ant1_5180



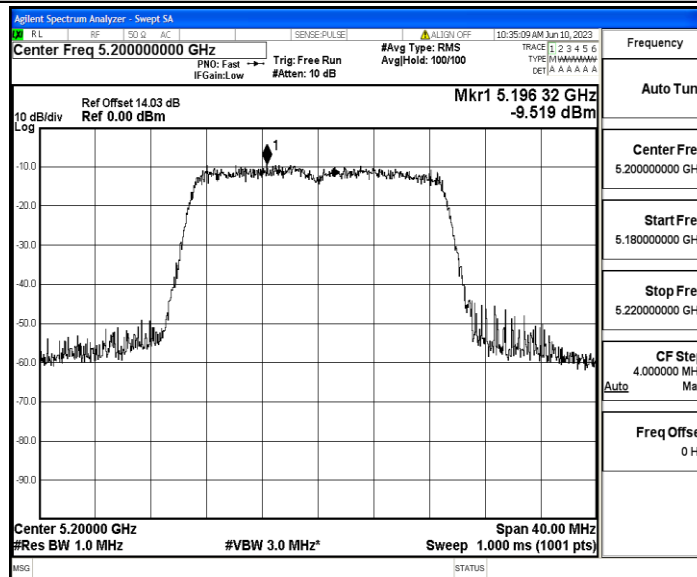
11AC20MIMO_Ant2_5180



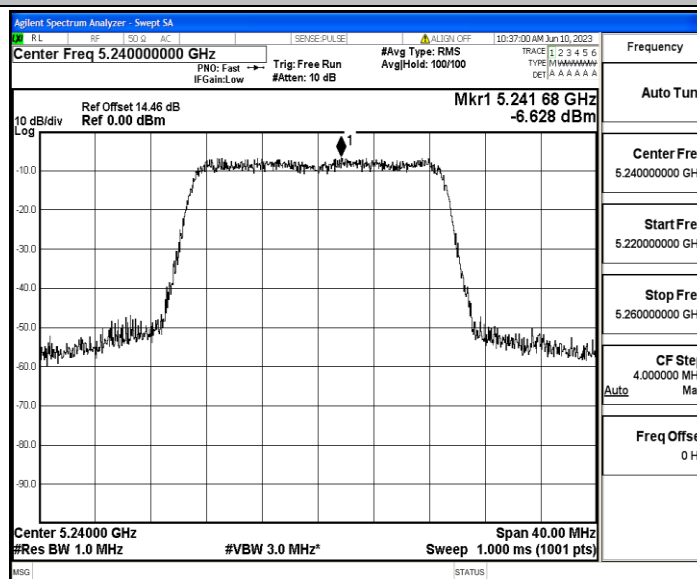
11AC20MIMO_Ant1_5200



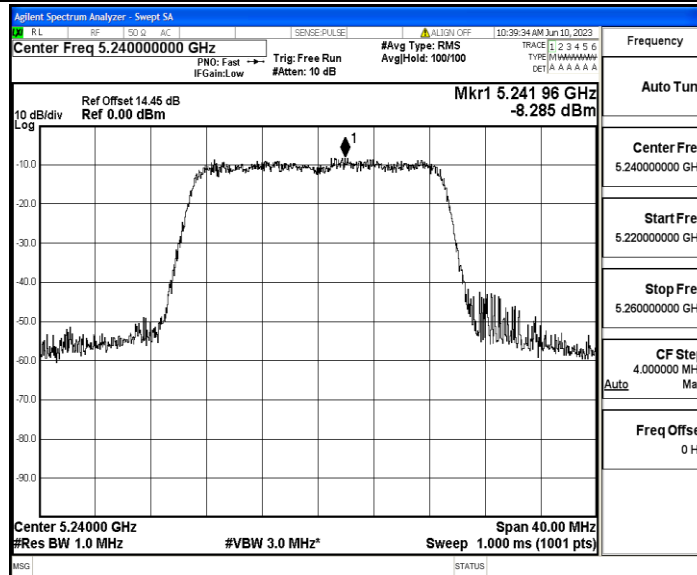
11AC20MIMO_Ant2_5200



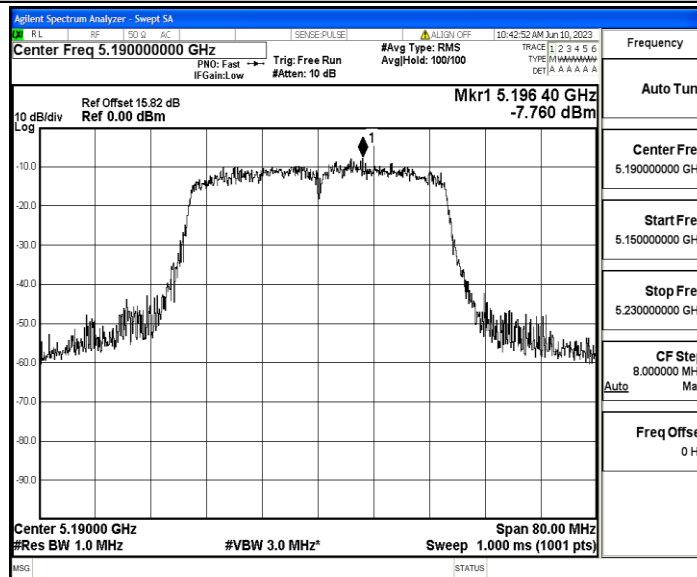
11AC20MIMO_Ant1_5240



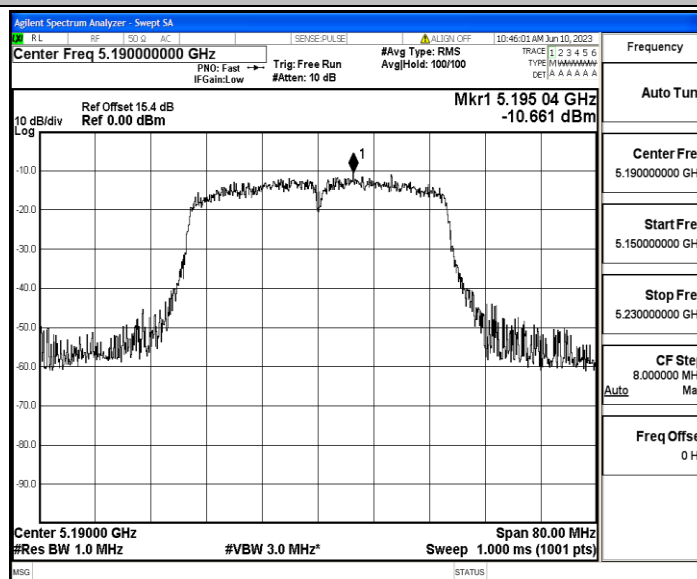
11AC20MIMO_Ant2_5240



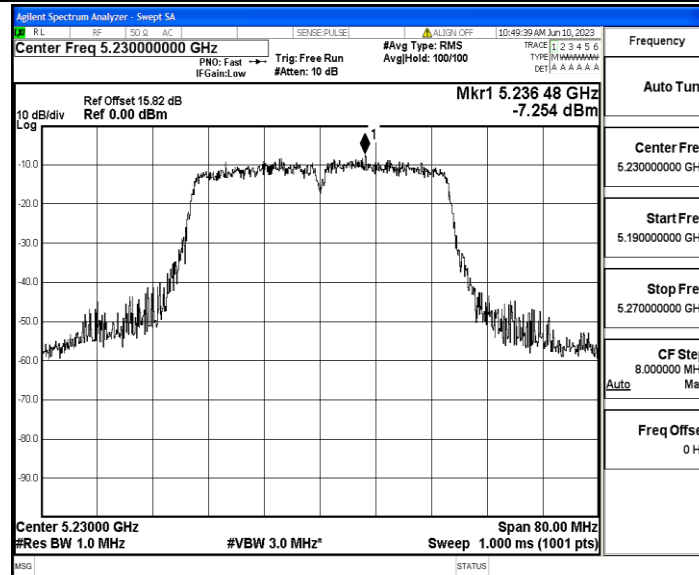
11AC40MIMO_Ant1_5190



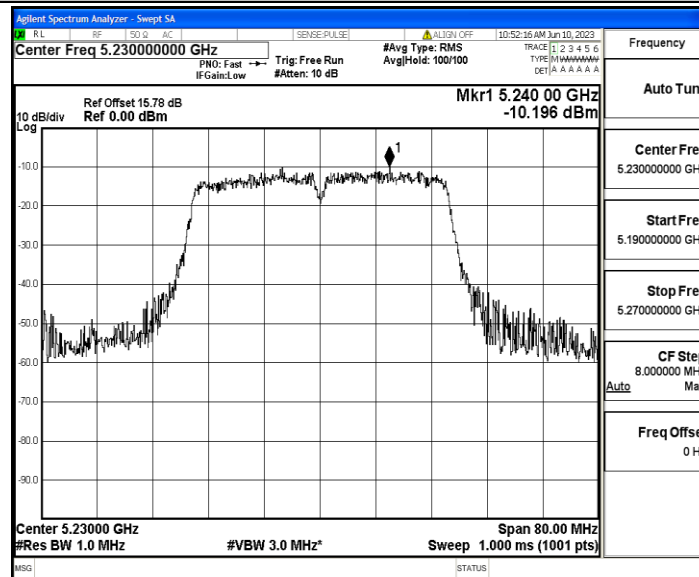
11AC40MIMO_Ant2_5190



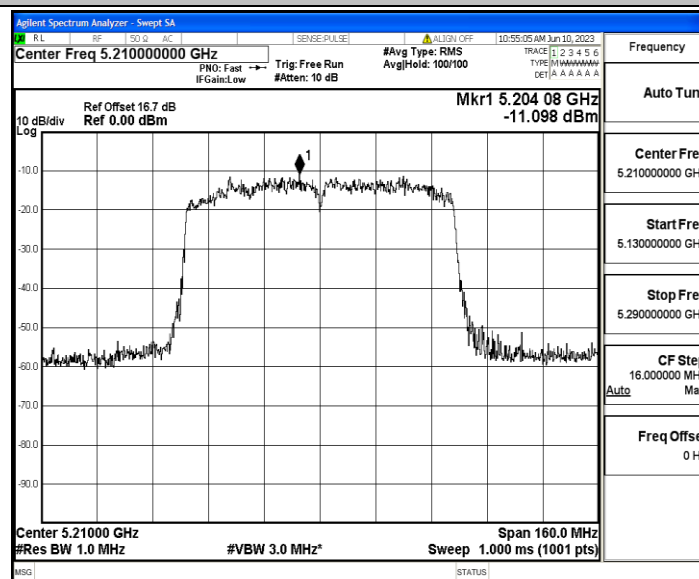
11AC40MIMO_Ant1_5230



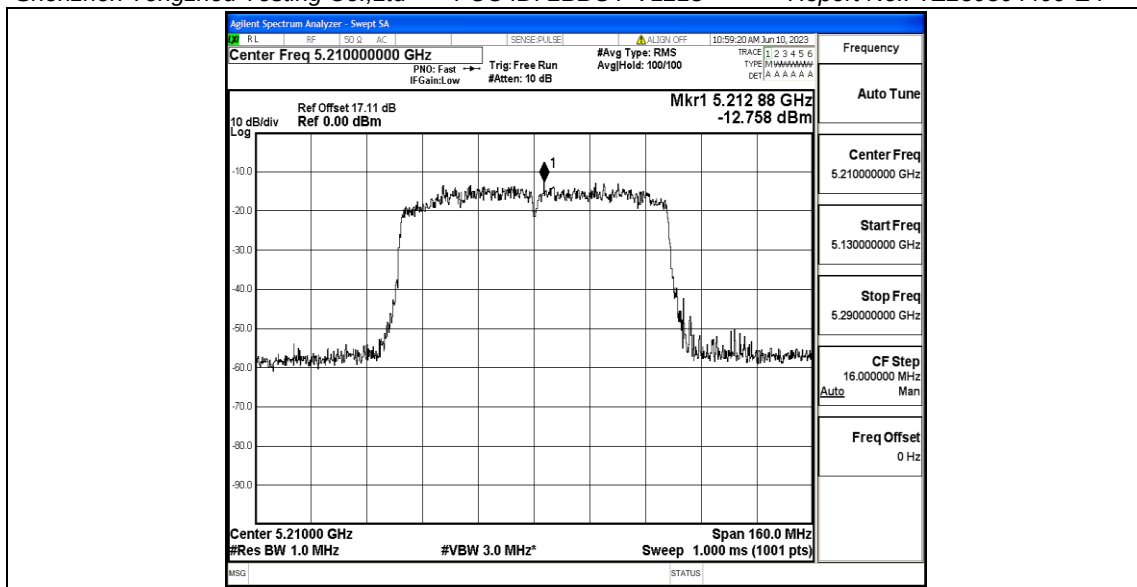
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



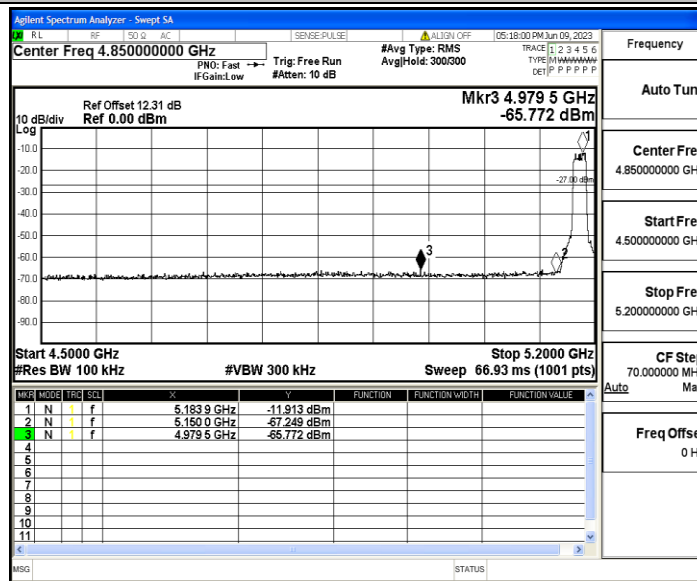
Appendix D: Band edge measurements

Test Result

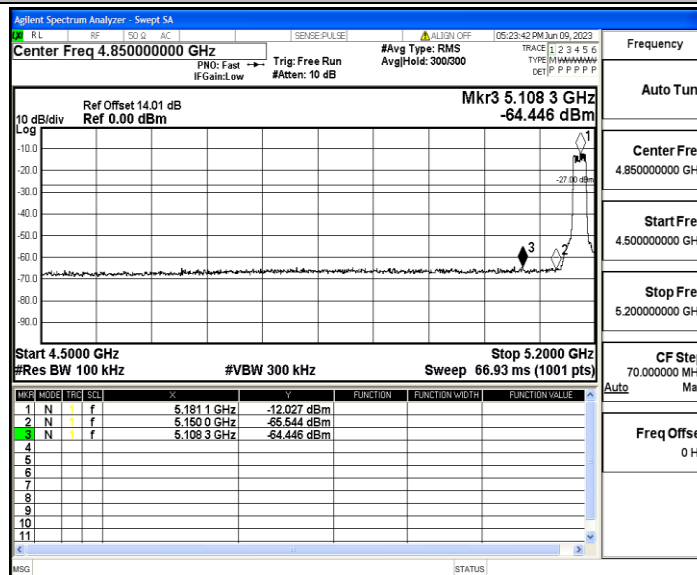
TestMode	Antenna	ChName	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-65.77	≤ -27	PASS
	Ant2	Low	5180	-64.45	≤ -27	PASS
	Ant1	High	5240	-64.85	≤ -27	PASS
	Ant2	High	5240	-63.31	≤ -27	PASS
11N20MIMO	Ant1	Low	5180	-65.8	≤ -27	PASS
	Ant2	Low	5180	-63.98	≤ -27	PASS
	Ant1	High	5240	-65.6	≤ -27	PASS
	Ant2	High	5240	-63.47	≤ -27	PASS
11N40MIMO	Ant1	Low	5190	-65.47	≤ -27	PASS
	Ant2	Low	5190	-61.37	≤ -27	PASS
	Ant1	High	5230	-66.12	≤ -27	PASS
	Ant2	High	5230	-63.84	≤ -27	PASS
11AC20MIMO	Ant1	Low	5180	-65.64	≤ -27	PASS
	Ant2	Low	5180	-63.73	≤ -27	PASS
	Ant1	High	5240	-65.88	≤ -27	PASS
	Ant2	High	5240	-63.68	≤ -27	PASS
11AC40MIMO	Ant1	Low	5190	-65.51	≤ -27	PASS
	Ant2	Low	5190	-61.15	≤ -27	PASS
	Ant1	High	5230	-65.94	≤ -27	PASS
	Ant2	High	5230	-63.81	≤ -27	PASS
11AC80MIMO	Ant1	Low	5210	-65.17	≤ -27	PASS
	Ant2	Low	5210	-63.51	≤ -27	PASS
	Ant1	High	5210	-65.52	≤ -27	PASS
	Ant2	High	5210	-64.05	≤ -27	PASS

Test Graphs

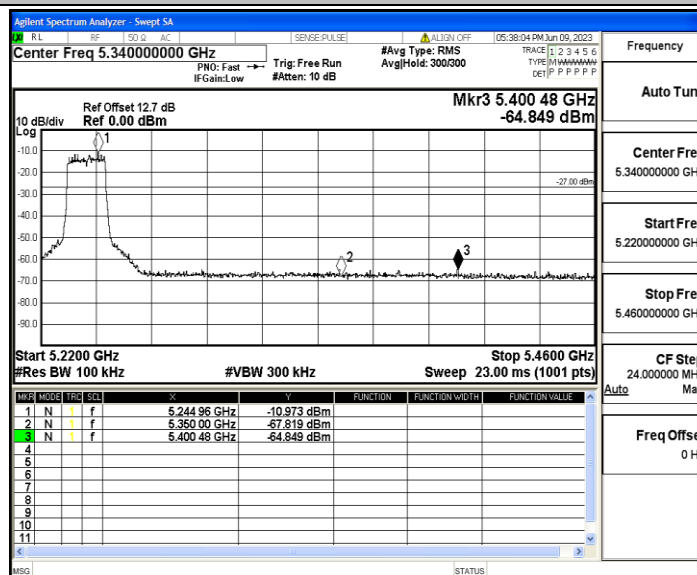
11A_Ant1_Low_5180



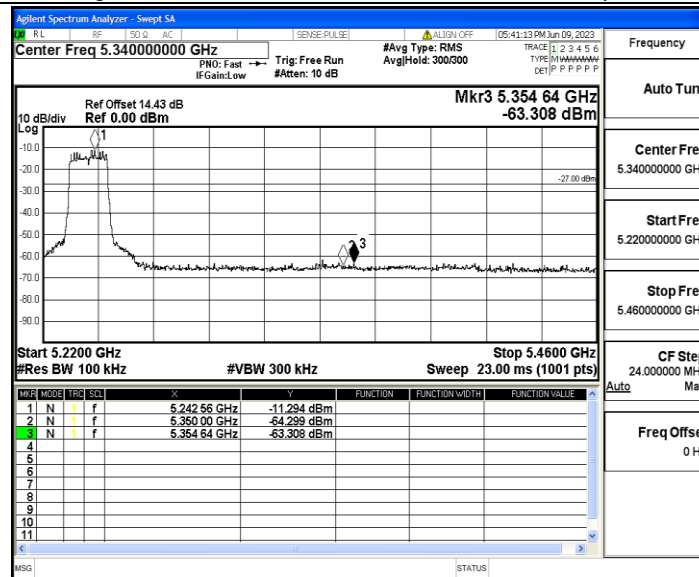
11A_Ant2_Low_5180



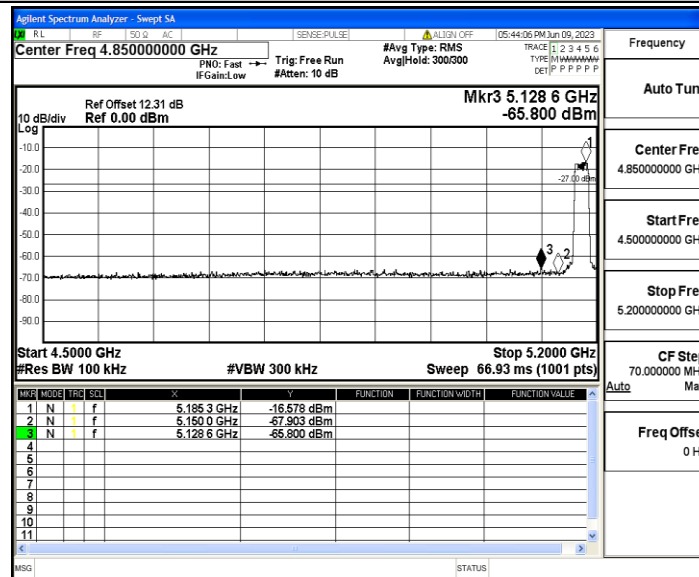
11A_Ant1_High_5240



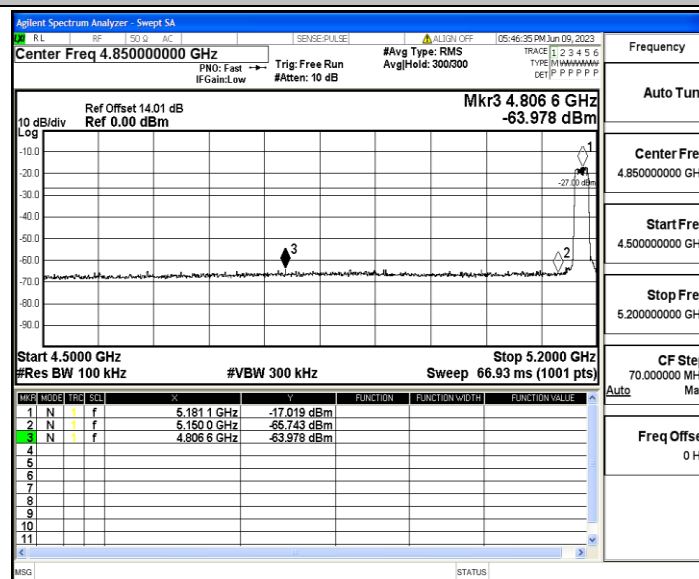
11A_Ant2_High_5240



11N20MIMO_Ant1_Low_5180



11N20MIMO_Ant2_Low_5180



11N20MIMO_Ant1_High_5240