

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

Product Name: DRONE

Trade Mark: N/A

Test Model: U11PRO2

FCC ID: 2AXQL-U11PRO2

Environmental Conditions

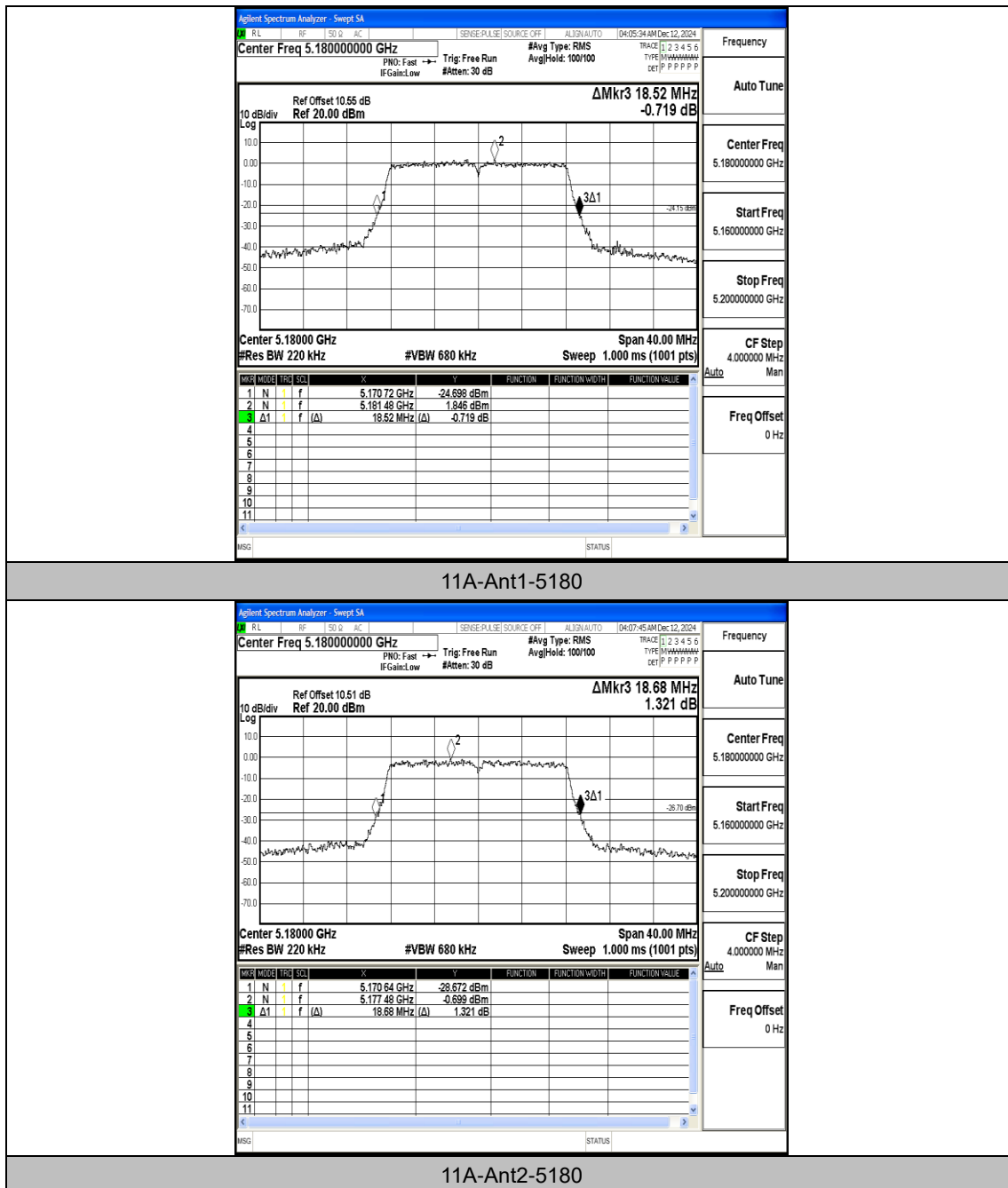
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

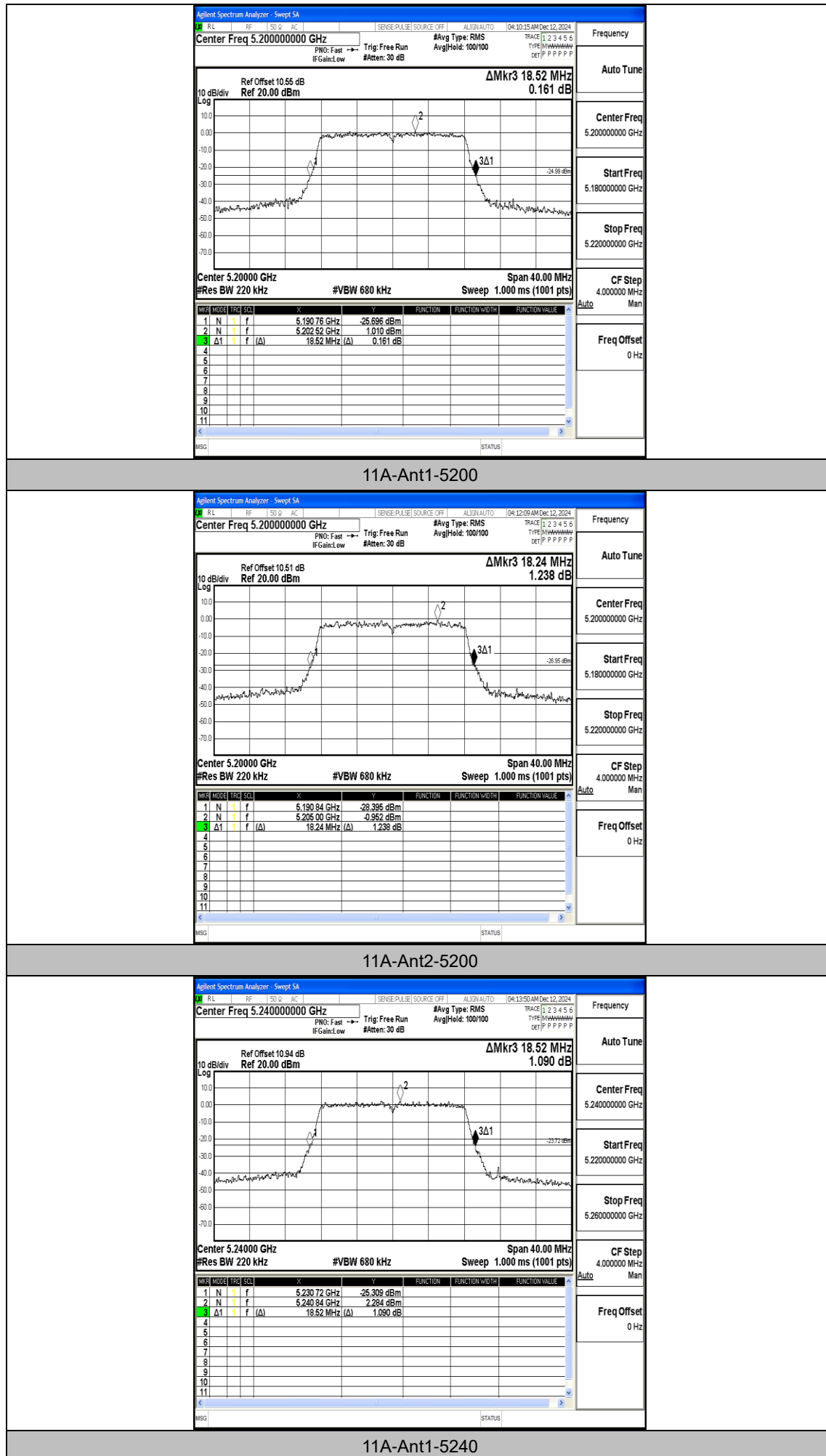
Appendix A1: Emission Bandwidth

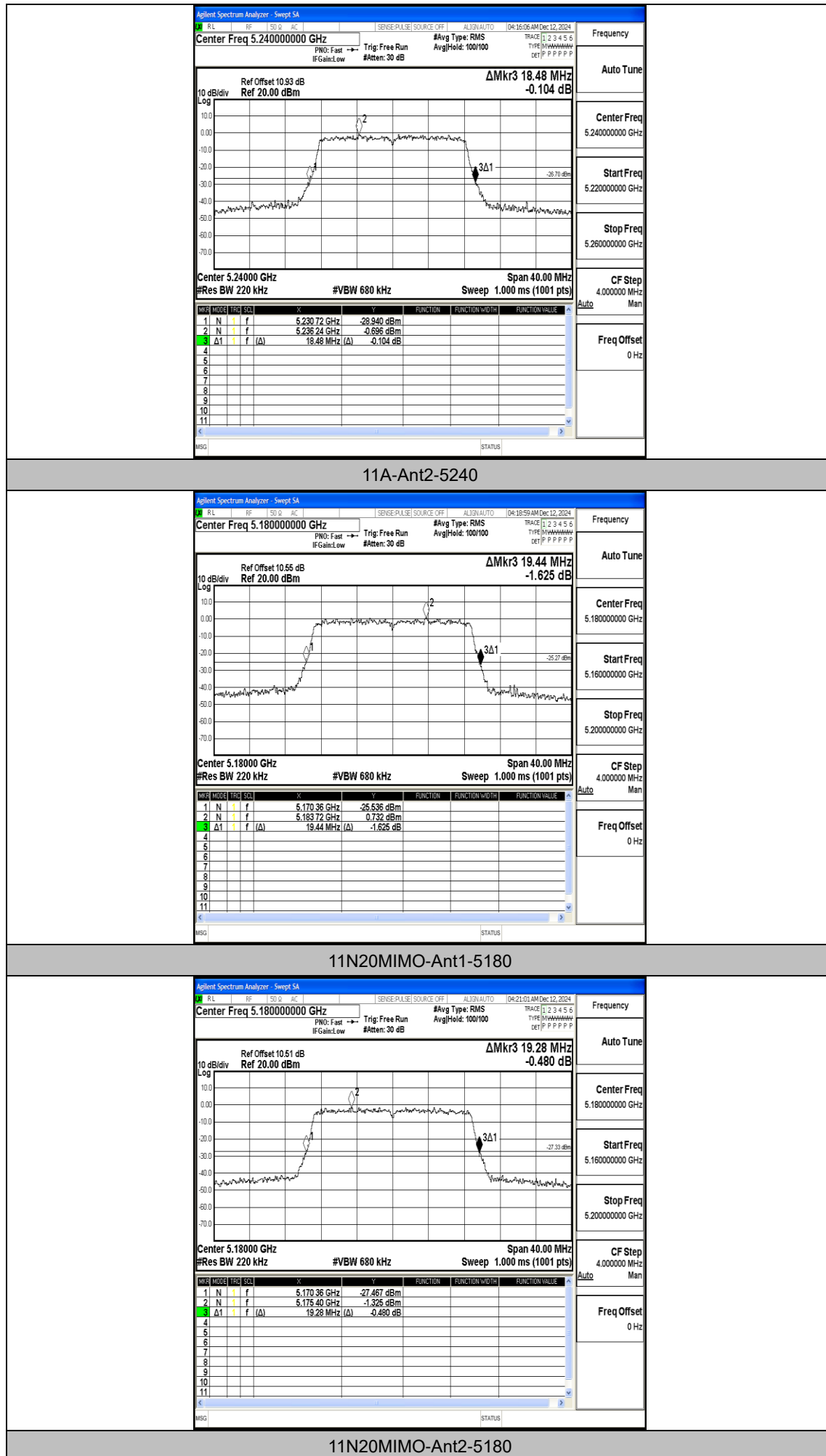
Test Result

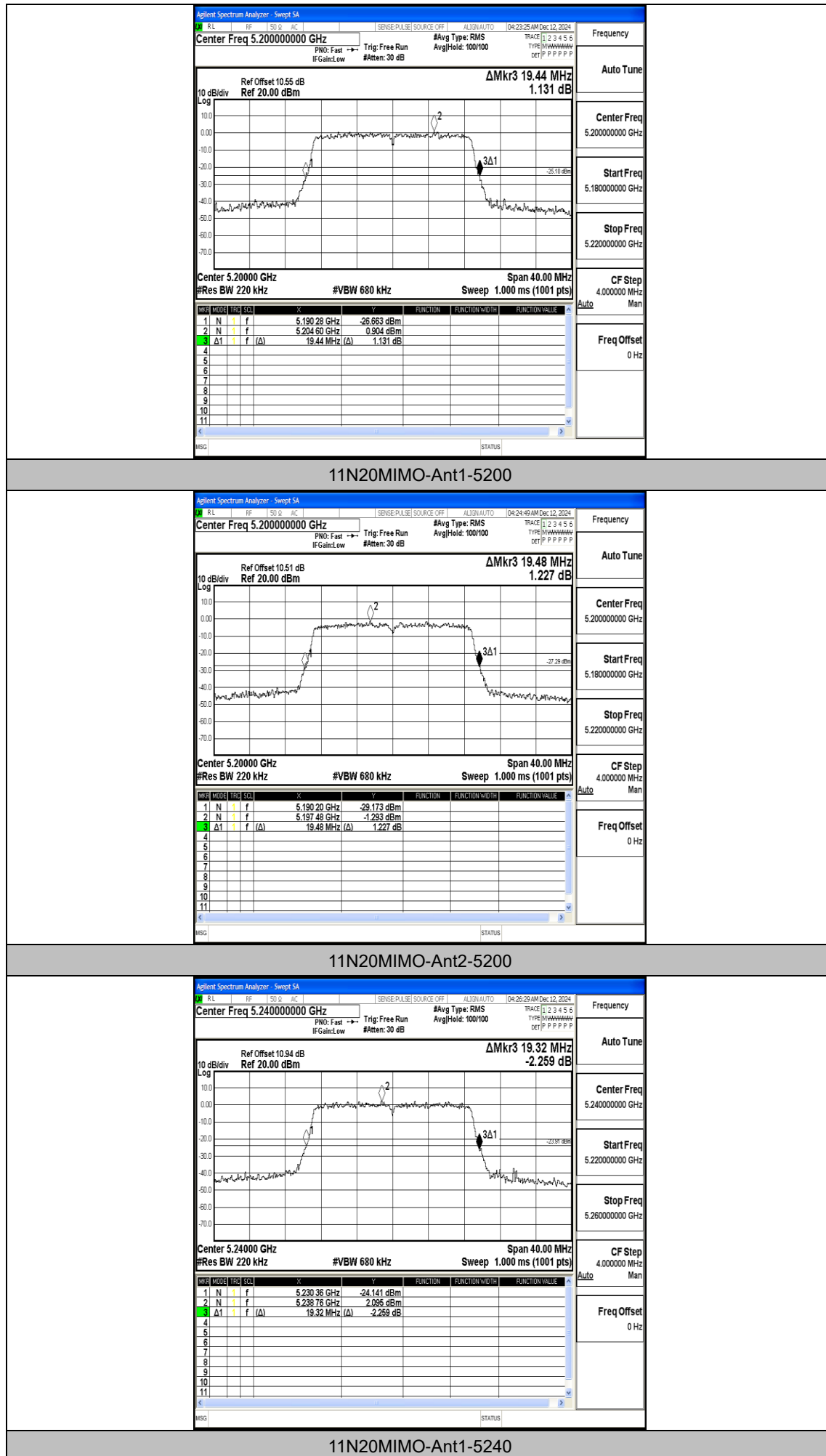
Test Mode	Antenna	Frequency [MHz]	26db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5180	18.520	5170.720	5189.240	---	---
11A	Ant2	5180	18.680	5170.640	5189.320	---	---
11A	Ant1	5200	18.520	5190.760	5209.280	---	---
11A	Ant2	5200	18.240	5190.840	5209.080	---	---
11A	Ant1	5240	18.520	5230.720	5249.240	---	---
11A	Ant2	5240	18.480	5230.720	5249.200	---	---
11N20MIMO	Ant1	5180	19.440	5170.360	5189.800	---	---
11N20MIMO	Ant2	5180	19.280	5170.360	5189.640	---	---
11N20MIMO	Ant1	5200	19.440	5190.280	5209.720	---	---
11N20MIMO	Ant2	5200	19.480	5190.200	5209.680	---	---
11N20MIMO	Ant1	5240	19.320	5230.360	5249.680	---	---
11N20MIMO	Ant2	5240	19.400	5230.320	5249.720	---	---
11AC20MIMO	Ant1	5180	19.360	5170.400	5189.760	---	---
11AC20MIMO	Ant2	5180	19.480	5170.240	5189.720	---	---
11AC20MIMO	Ant1	5200	19.360	5190.320	5209.680	---	---
11AC20MIMO	Ant2	5200	19.320	5190.360	5209.680	---	---
11AC20MIMO	Ant1	5240	19.480	5230.200	5249.680	---	---
11AC20MIMO	Ant2	5240	19.320	5230.360	5249.680	---	---

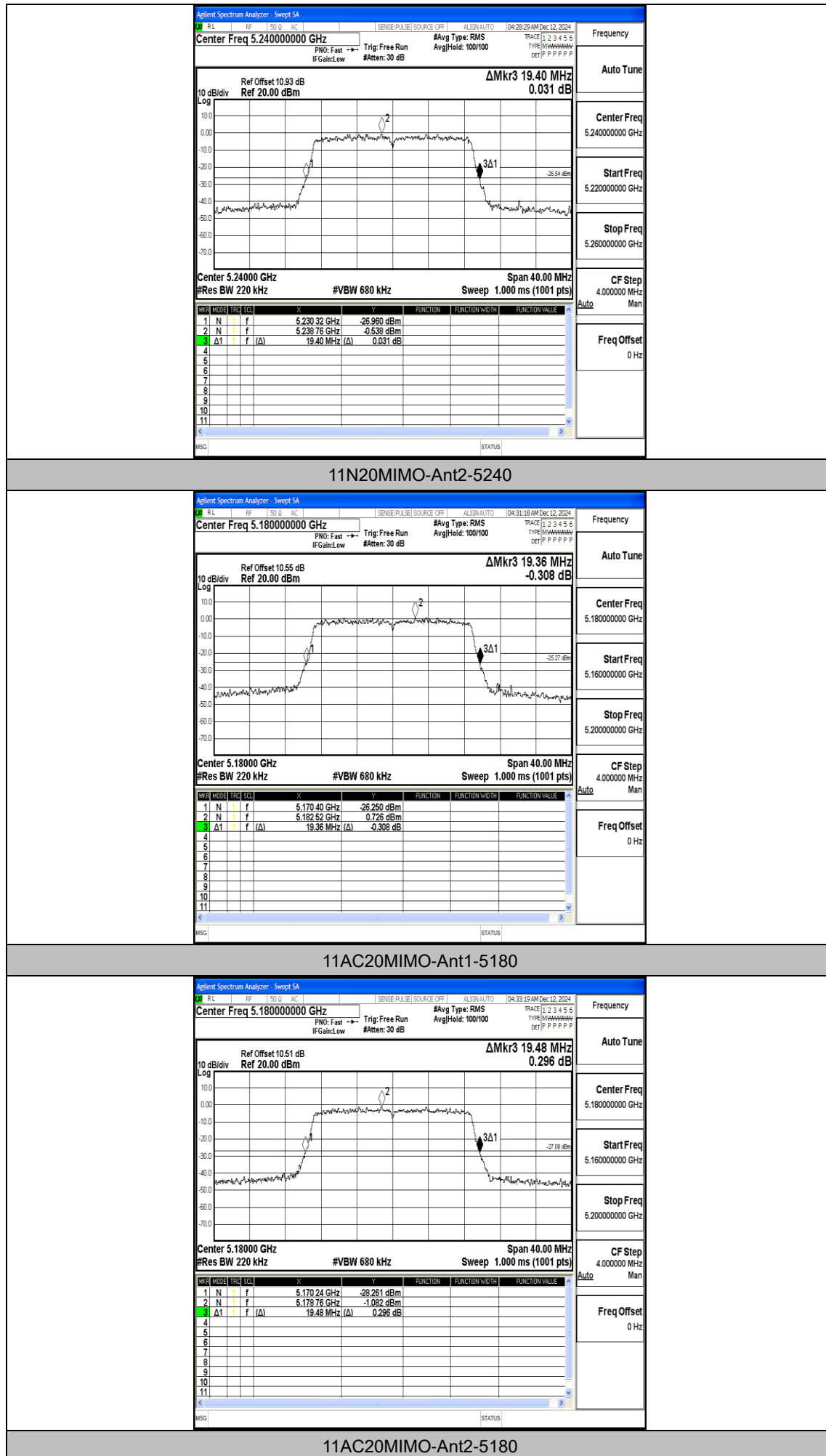
Test Graphs

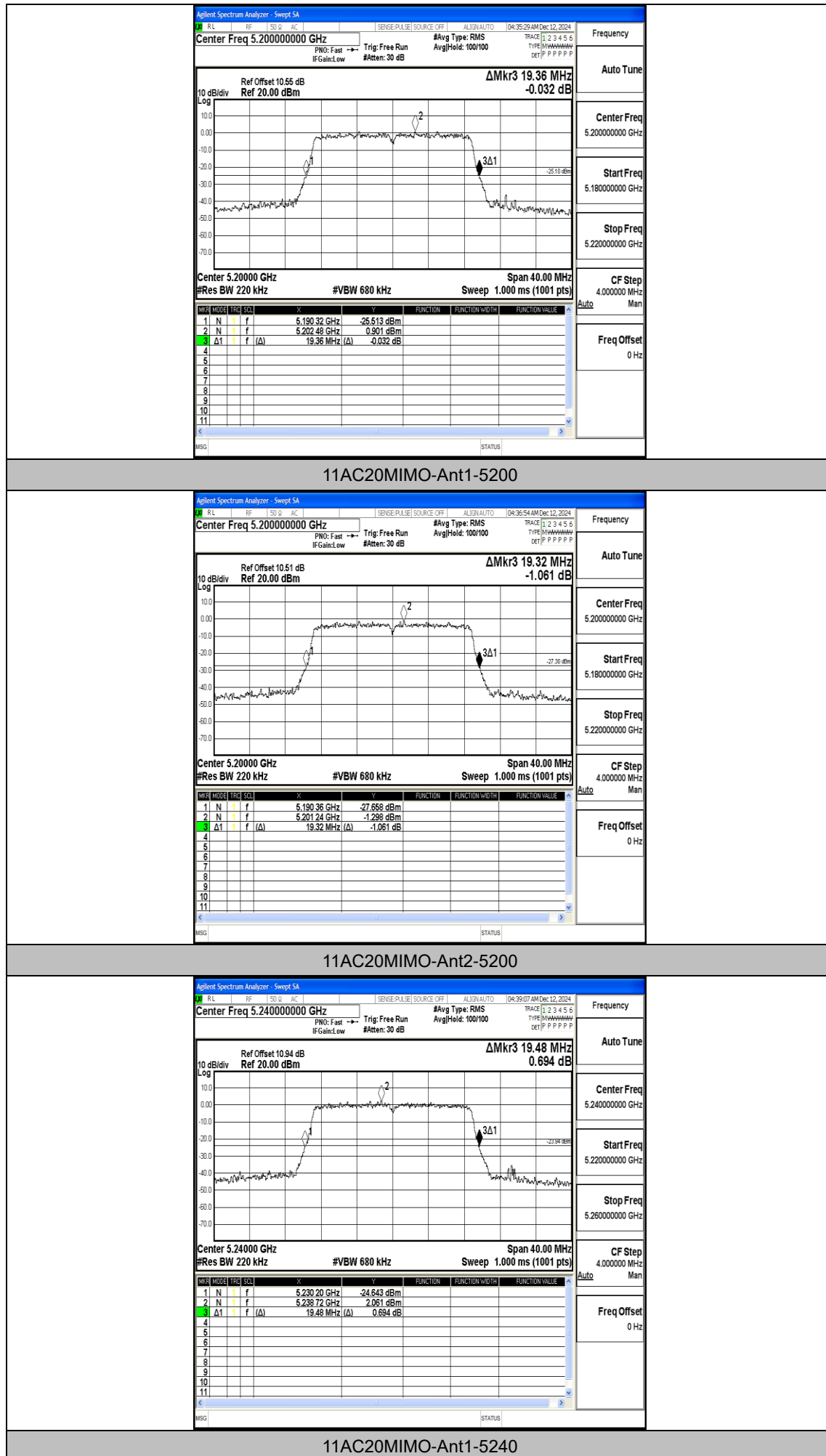


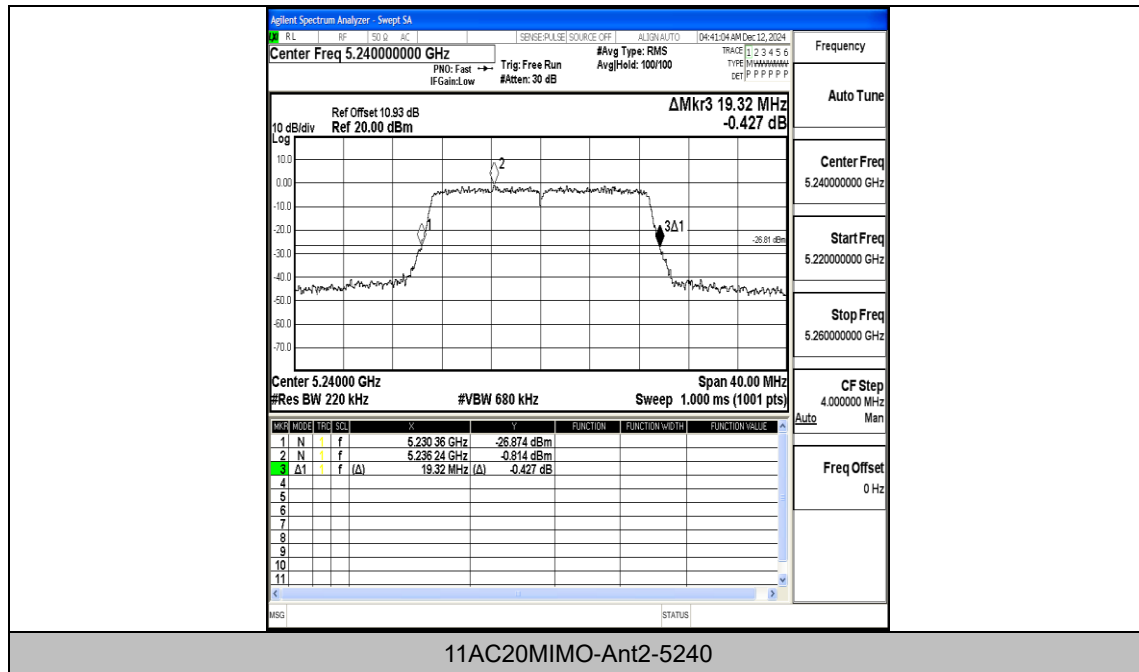










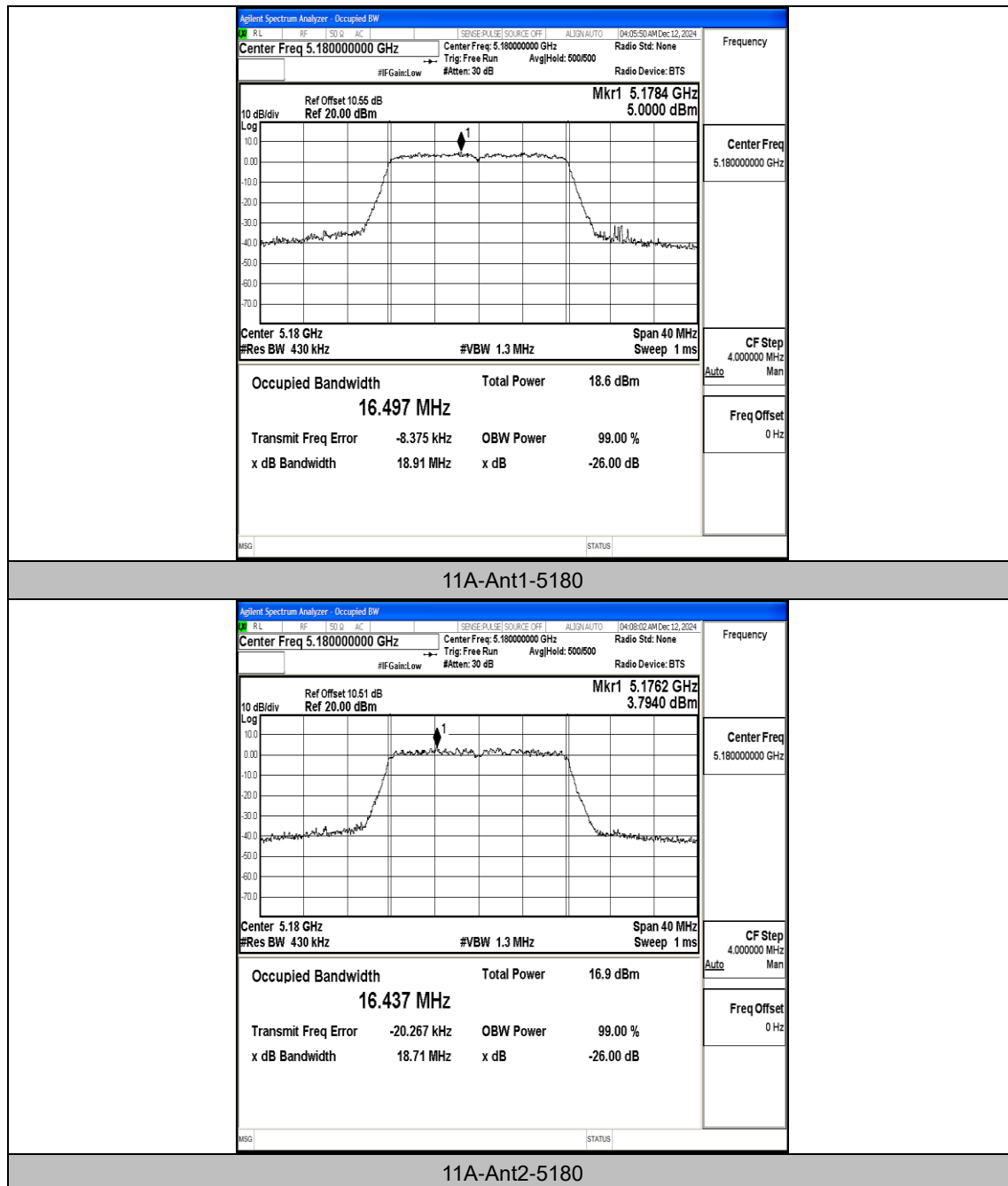


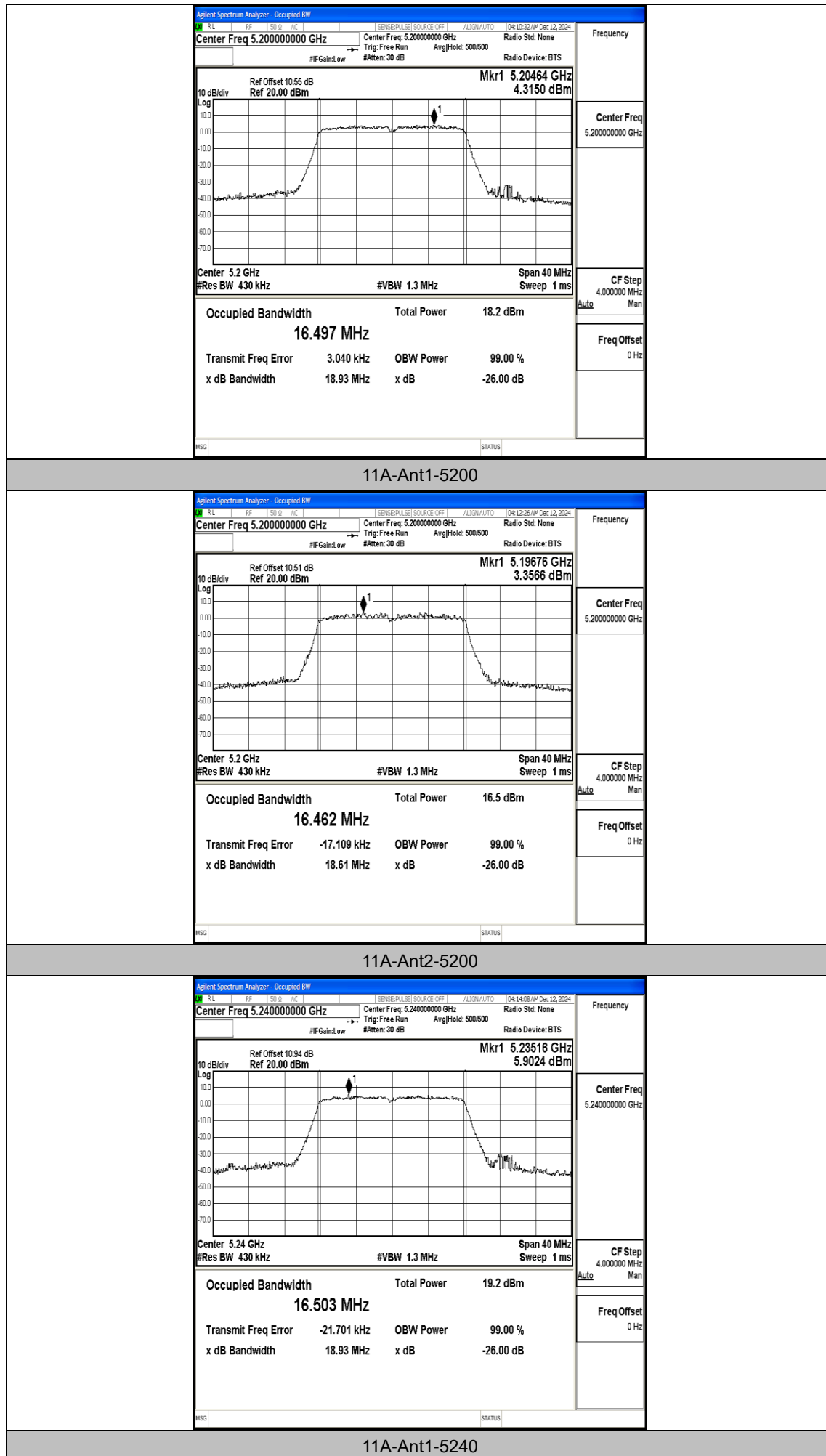
Appendix A2: Occupied channel bandwidth

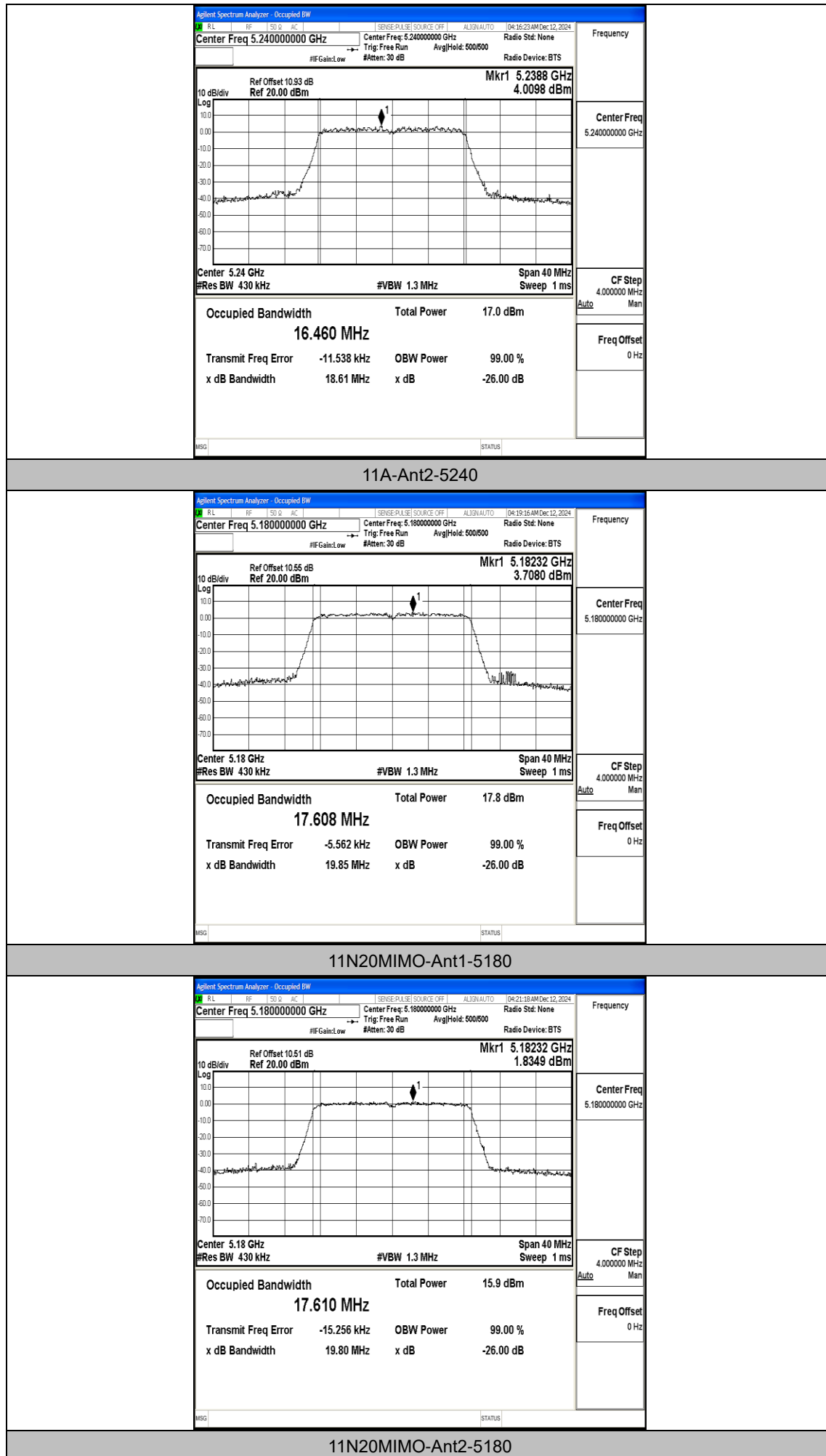
Test Result

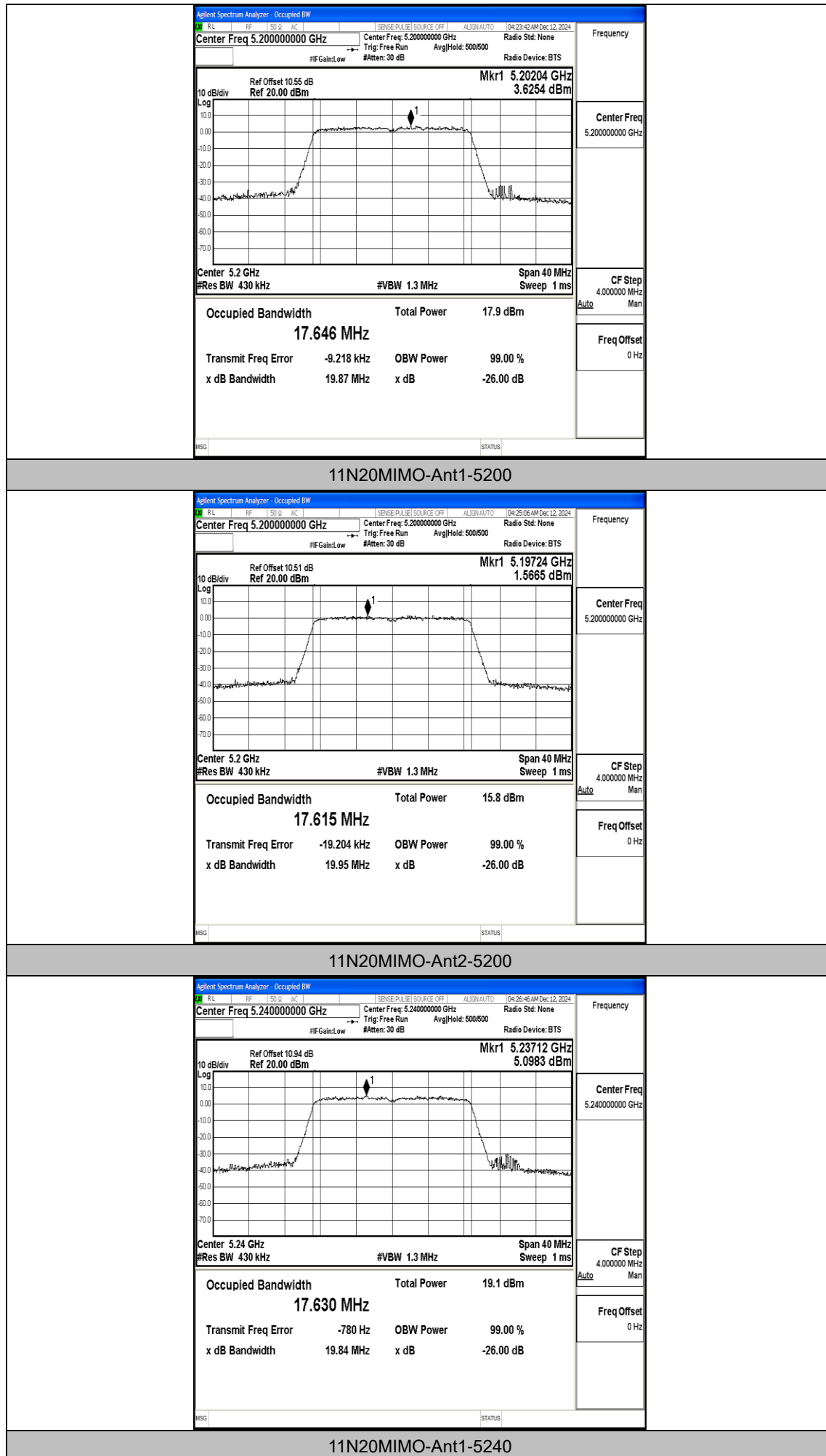
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5180	16.497	5171.7431	5188.2401	---	---
11A	Ant2	5180	16.437	5171.7612	5188.1982	---	---
11A	Ant1	5200	16.497	5191.7545	5208.2515	---	---
11A	Ant2	5200	16.462	5191.7519	5208.2139	---	---
11A	Ant1	5240	16.503	5231.7268	5248.2298	---	---
11A	Ant2	5240	16.460	5231.7585	5248.2185	---	---
11N20MIMO	Ant1	5180	17.608	5171.1904	5188.7984	---	---
11N20MIMO	Ant2	5180	17.610	5171.1797	5188.7897	---	---
11N20MIMO	Ant1	5200	17.646	5191.1678	5208.8138	---	---
11N20MIMO	Ant2	5200	17.615	5191.1733	5208.7883	---	---
11N20MIMO	Ant1	5240	17.630	5231.1842	5248.8142	---	---
11N20MIMO	Ant2	5240	17.629	5231.1763	5248.8053	---	---
11AC20MIMO	Ant1	5180	17.616	5171.1926	5188.8086	---	---
11AC20MIMO	Ant2	5180	17.611	5171.1809	5188.7919	---	---
11AC20MIMO	Ant1	5200	17.633	5191.1765	5208.8095	---	---
11AC20MIMO	Ant2	5200	17.620	5191.1765	5208.7965	---	---
11AC20MIMO	Ant1	5240	17.639	5231.1632	5248.8022	---	---
11AC20MIMO	Ant2	5240	17.654	5231.1513	5248.8053	---	---

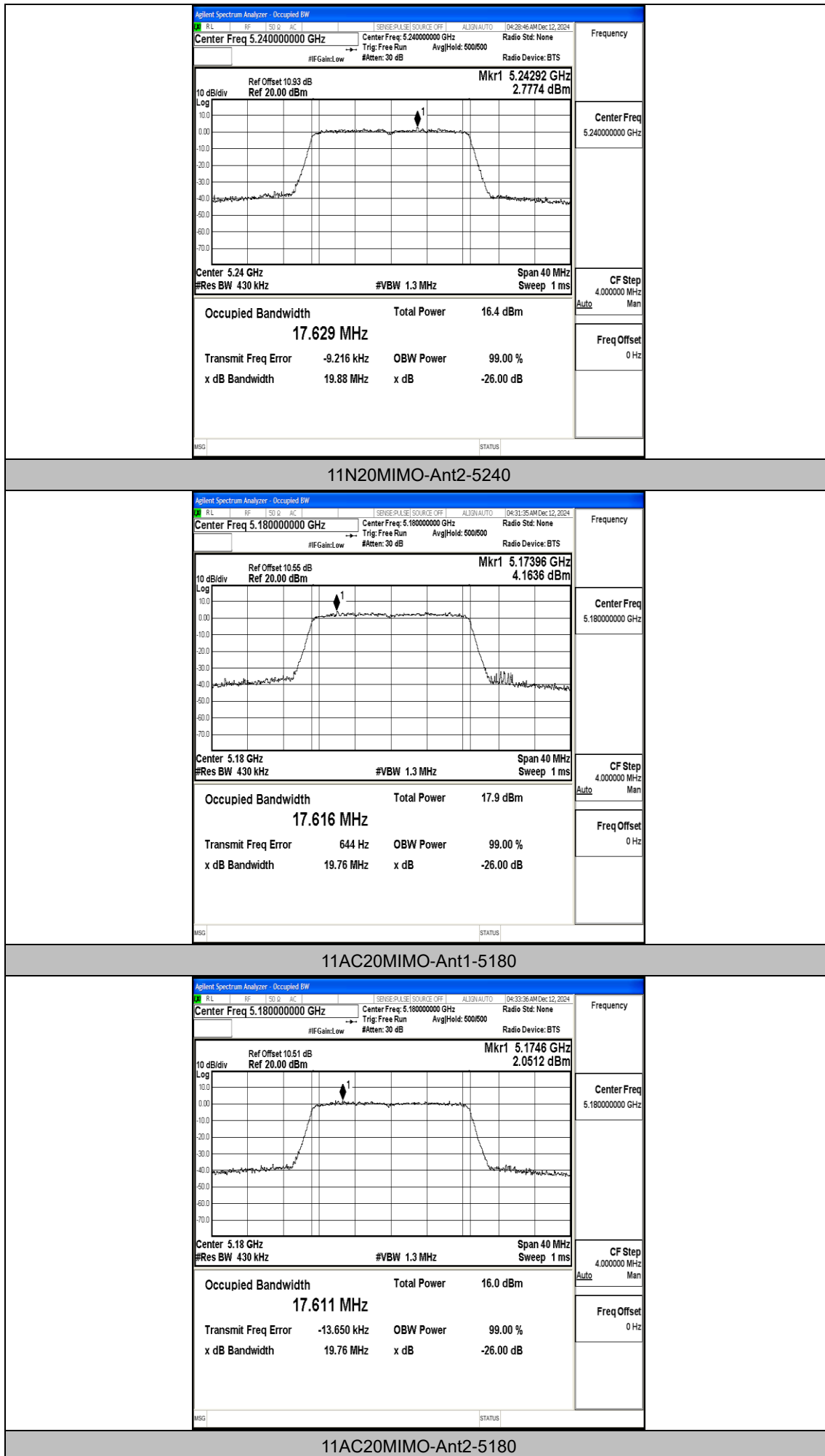
Test Graphs

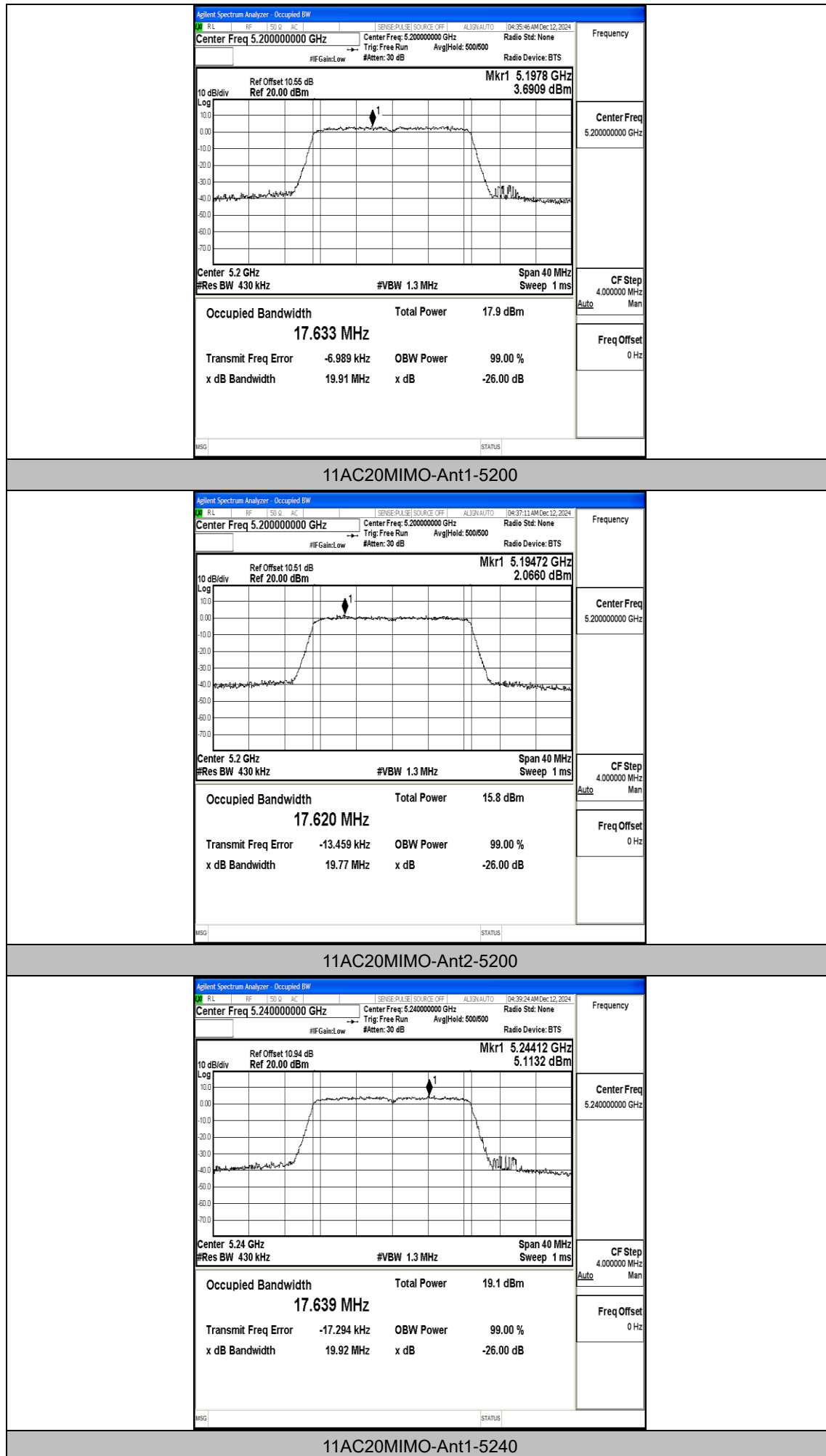


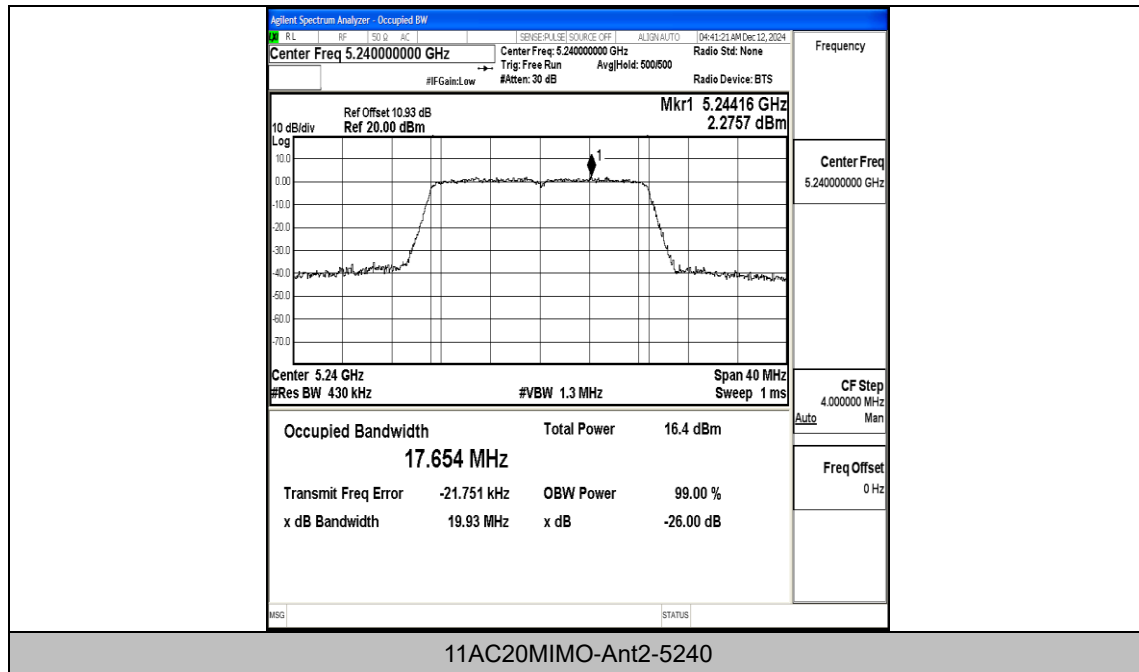












Appendix B: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Power [dBm]	Conducted Limit [dBm]	Verdict
11A	Ant1	5180	11.94	≤23.98	PASS
11A	Ant2	5180	9.70	≤23.98	PASS
11A	Ant1	5200	11.72	≤23.98	PASS
11A	Ant2	5200	9.14	≤23.98	PASS
11A	Ant1	5240	12.69	≤23.98	PASS
11A	Ant2	5240	10.03	≤23.98	PASS
11N20MIMO	Ant1	5180	11.19	≤23.98	PASS
11N20MIMO	Ant2	5180	9.27	≤23.98	PASS
11N20MIMO	total	5180	13.35	≤23.98	PASS
11N20MIMO	Ant1	5200	11.40	≤23.98	PASS
11N20MIMO	Ant2	5200	9.10	≤23.98	PASS
11N20MIMO	total	5200	13.41	≤23.98	PASS
11N20MIMO	Ant1	5240	12.37	≤23.98	PASS
11N20MIMO	Ant2	5240	9.89	≤23.98	PASS
11N20MIMO	total	5240	14.31	≤23.98	PASS
11AC20MIMO	Ant1	5180	11.01	≤23.98	PASS
11AC20MIMO	Ant2	5180	9.26	≤23.98	PASS
11AC20MIMO	total	5180	13.23	≤23.98	PASS
11AC20MIMO	Ant1	5200	11.43	≤23.98	PASS
11AC20MIMO	Ant2	5200	9.23	≤23.98	PASS
11AC20MIMO	total	5200	13.48	≤23.98	PASS
11AC20MIMO	Ant1	5240	12.61	≤23.98	PASS
11AC20MIMO	Ant2	5240	9.95	≤23.98	PASS
11AC20MIMO	total	5240	14.49	≤23.98	PASS

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

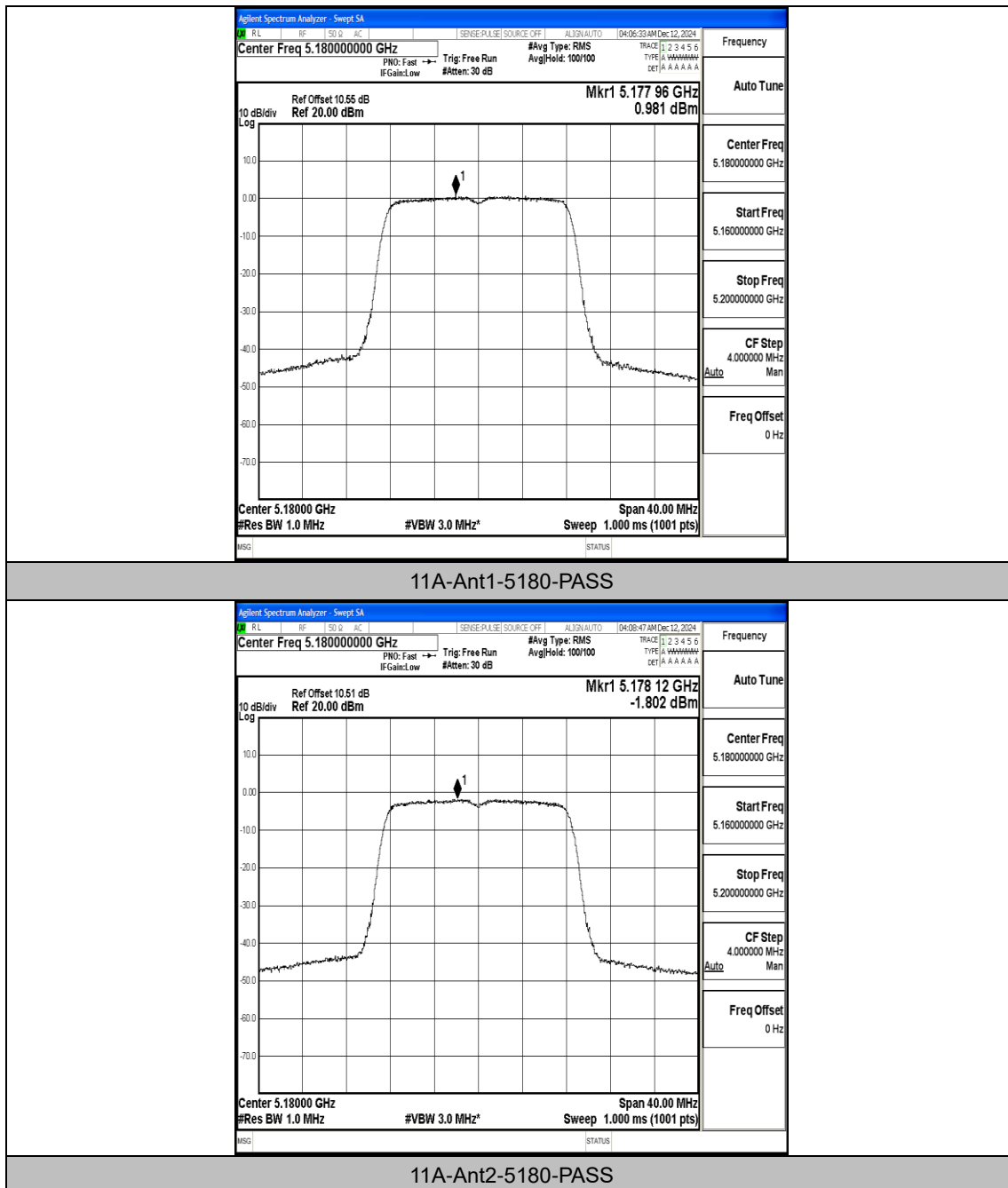
Appendix C: Maximum power spectral density

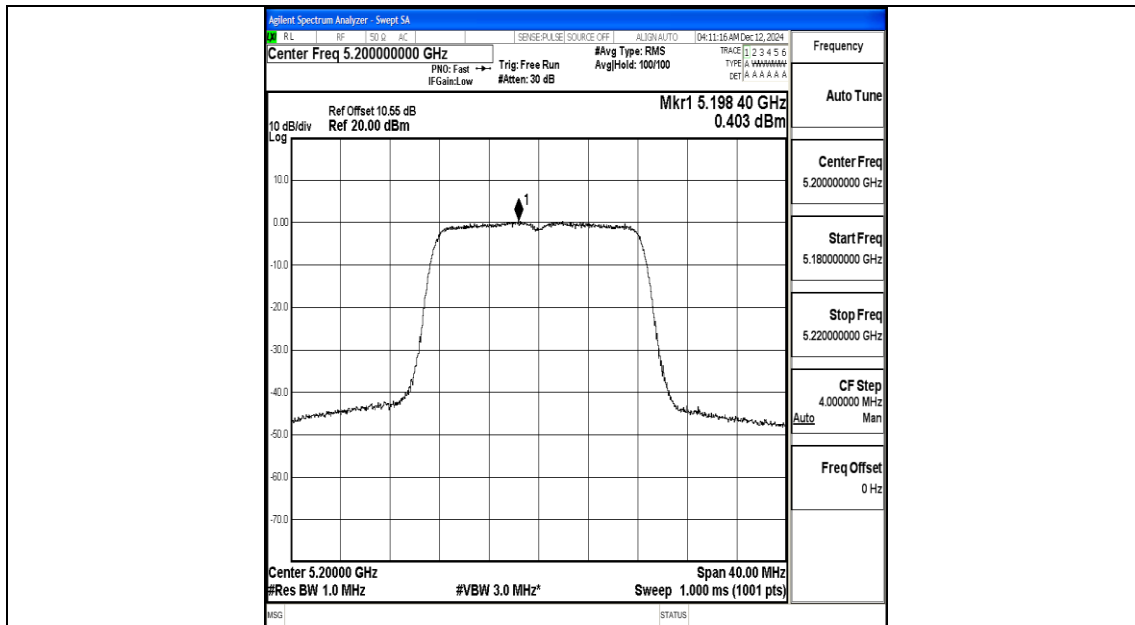
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	0.98	≤11.00	PASS
11A	Ant2	5180	-1.80	≤11.00	PASS
11A	Ant1	5200	0.40	≤11.00	PASS
11A	Ant2	5200	-1.87	≤11.00	PASS
11A	Ant1	5240	1.43	≤11.00	PASS
11A	Ant2	5240	-1.66	≤11.00	PASS
11N20MIMO	Ant1	5180	-0.60	≤11.00	PASS
11N20MIMO	Ant2	5180	-2.32	≤11.00	PASS
11N20MIMO	total	5180	1.63	≤11.00	PASS
11N20MIMO	Ant1	5200	0.16	≤11.00	PASS
11N20MIMO	Ant2	5200	-2.2	≤11.00	PASS
11N20MIMO	total	5200	2.15	≤11.00	PASS
11N20MIMO	Ant1	5240	0.67	≤11.00	PASS
11N20MIMO	Ant2	5240	-1.66	≤11.00	PASS
11N20MIMO	total	5240	2.67	≤11.00	PASS
11AC20MIMO	Ant1	5180	0.35	≤11.00	PASS
11AC20MIMO	Ant2	5180	-2.33	≤11.00	PASS
11AC20MIMO	total	5180	2.22	≤11.00	PASS
11AC20MIMO	Ant1	5200	0.21	≤11.00	PASS
11AC20MIMO	Ant2	5200	-2.65	≤11.00	PASS
11AC20MIMO	total	5200	2.02	≤11.00	PASS
11AC20MIMO	Ant1	5240	0.62	≤11.00	PASS
11AC20MIMO	Ant2	5240	-2.04	≤11.00	PASS
11AC20MIMO	total	5240	2.50	≤11.00	PASS

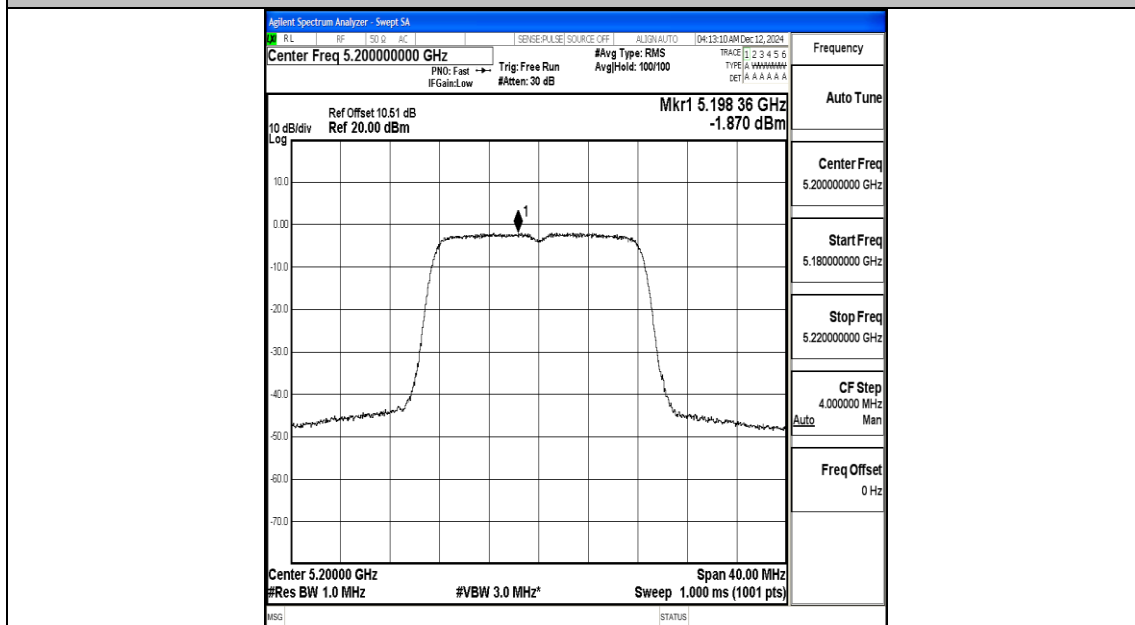
Note: The Duty Cycle Factor is compensated in the result.

Test Graphs

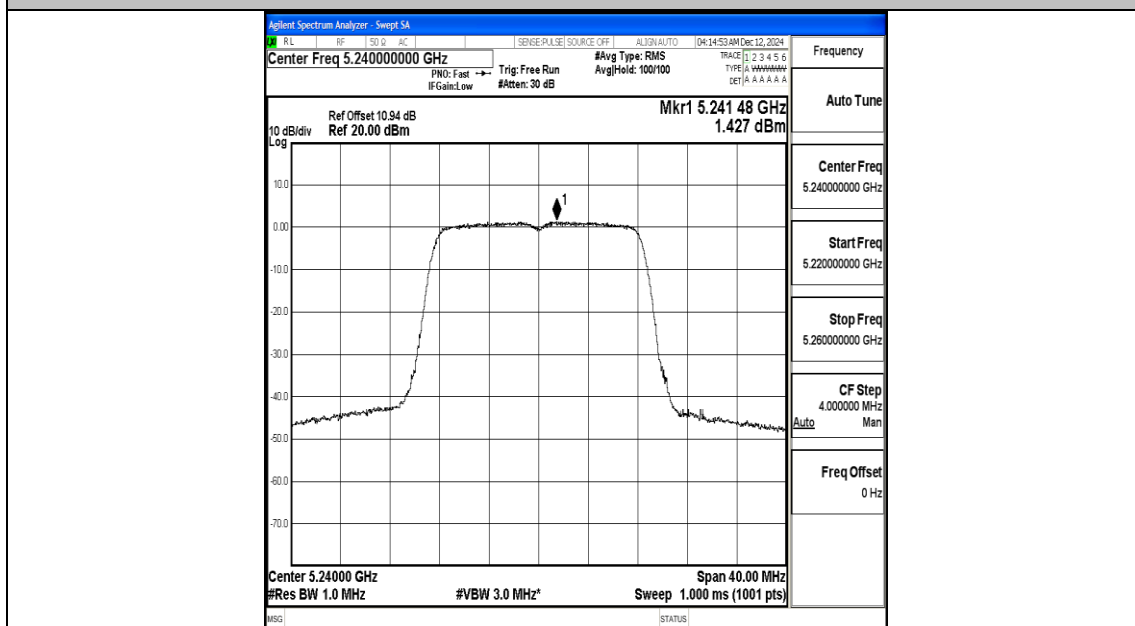




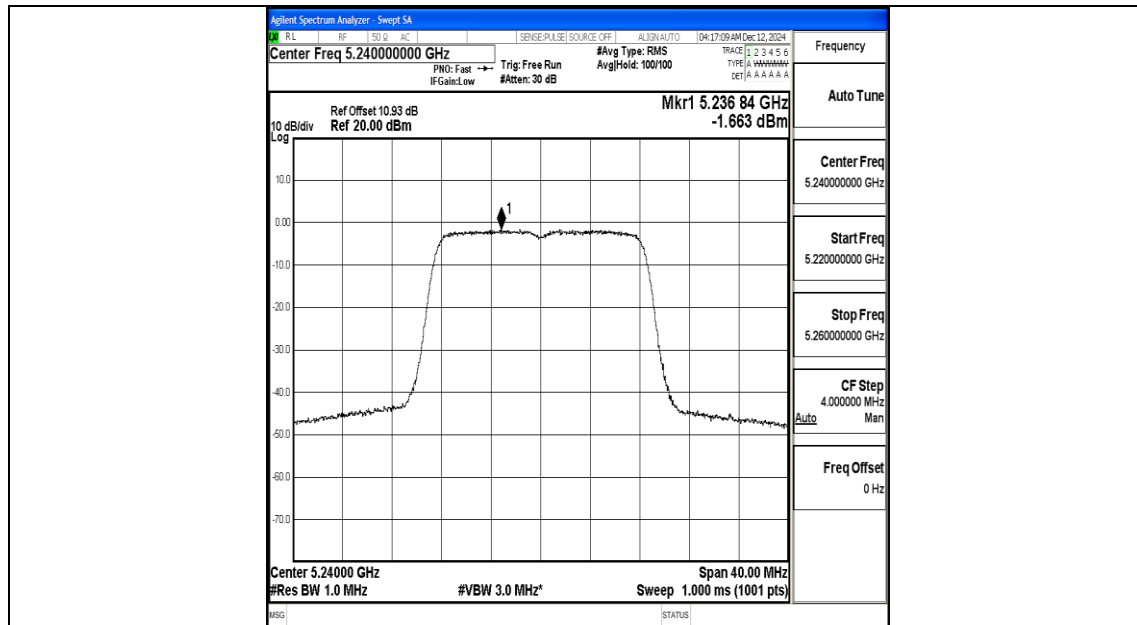
11A-Ant1-5200-PASS



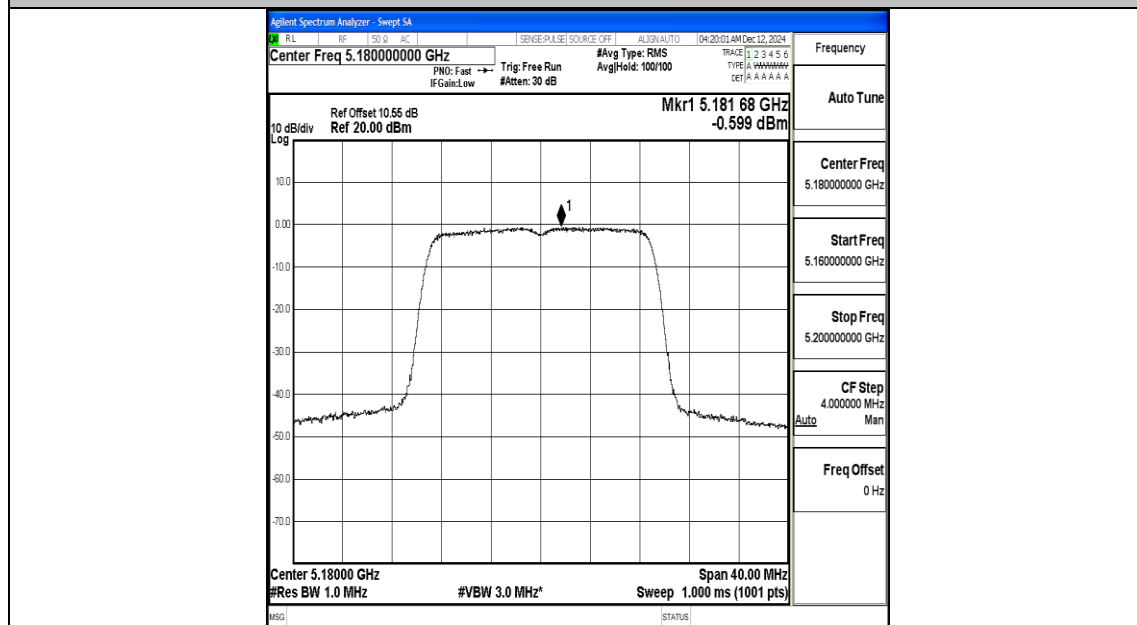
11A-Ant2-5200-PASS



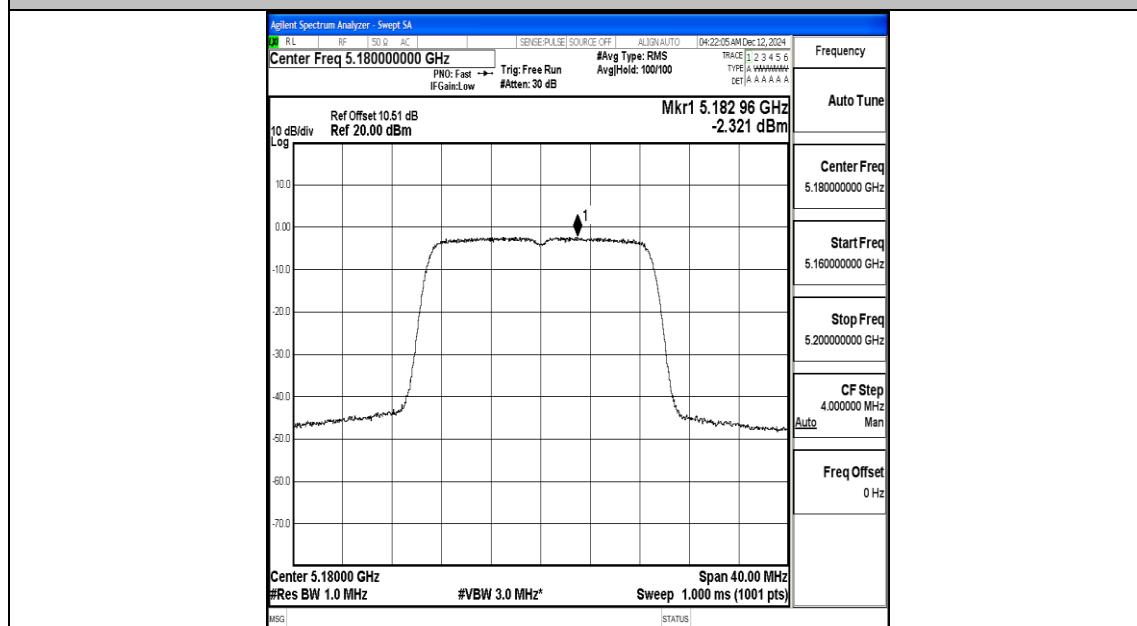
11A-Ant1-5240-PASS



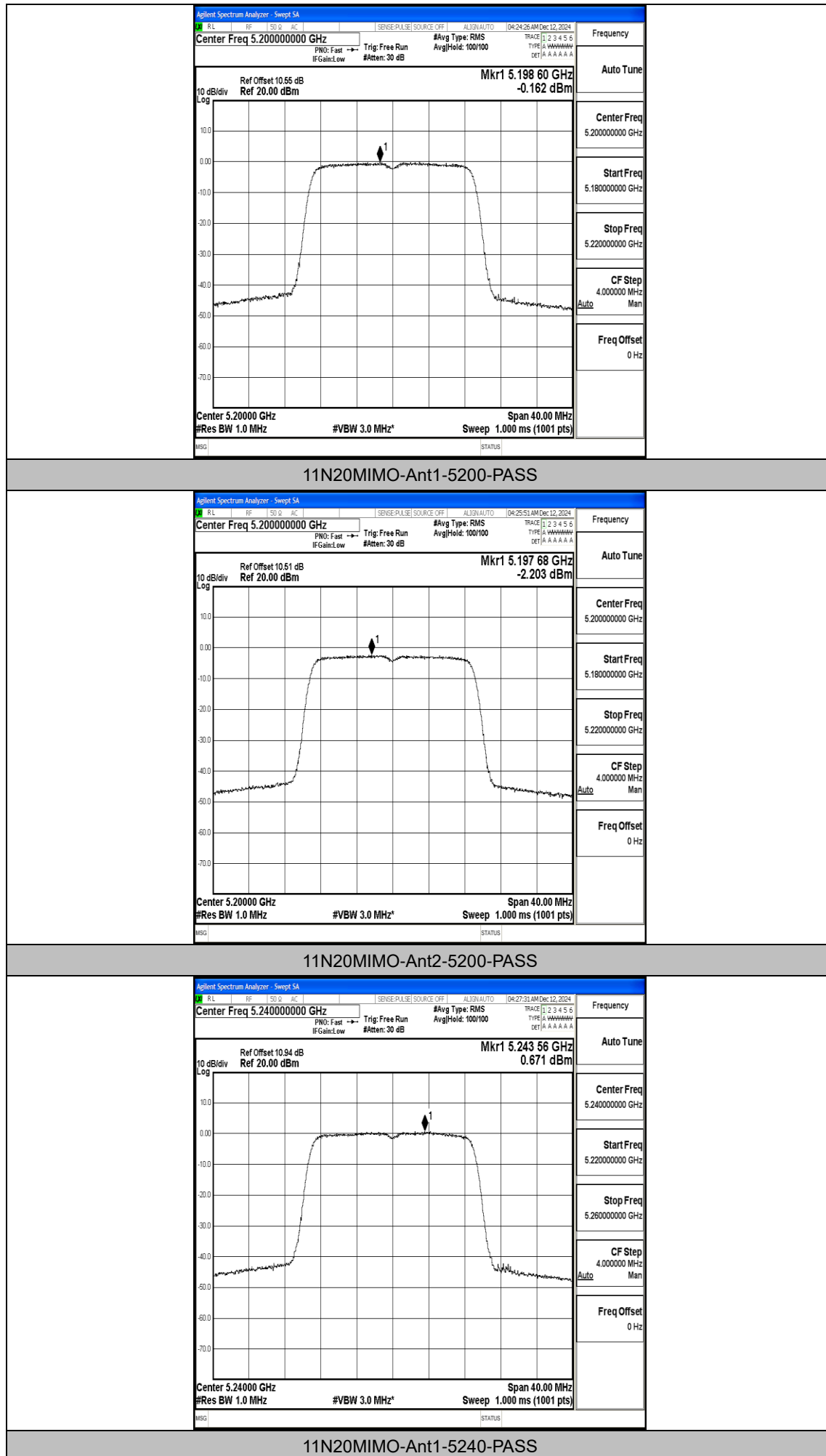
11A-Ant2-5240-PASS

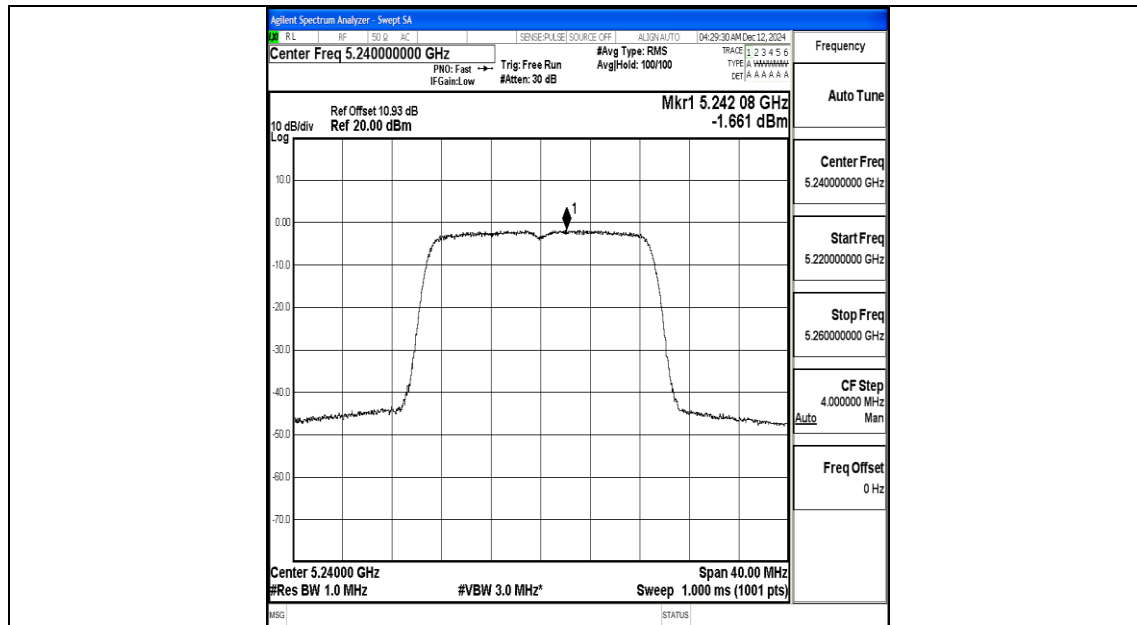


11N20MIMO-Ant1-5180-PASS

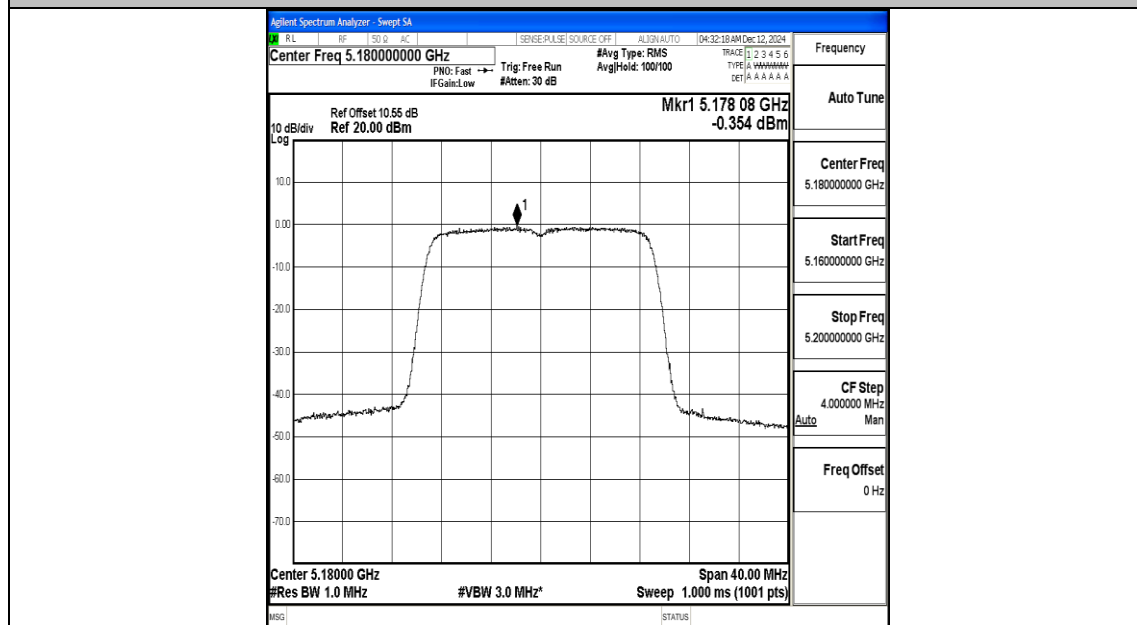


11N20MIMO-Ant2-5180-PASS

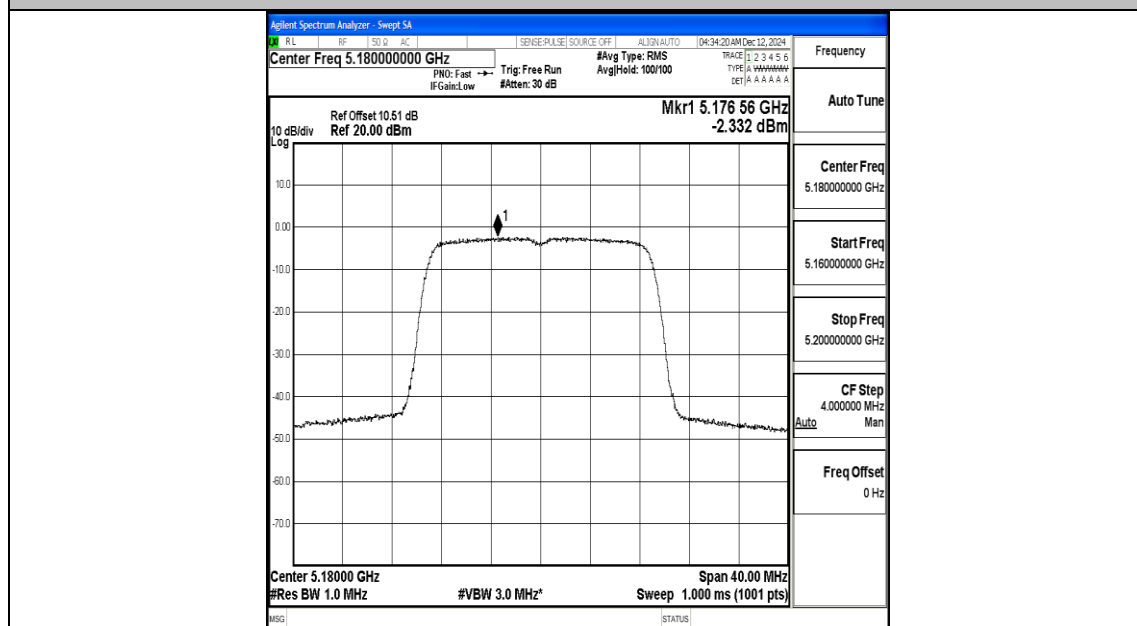




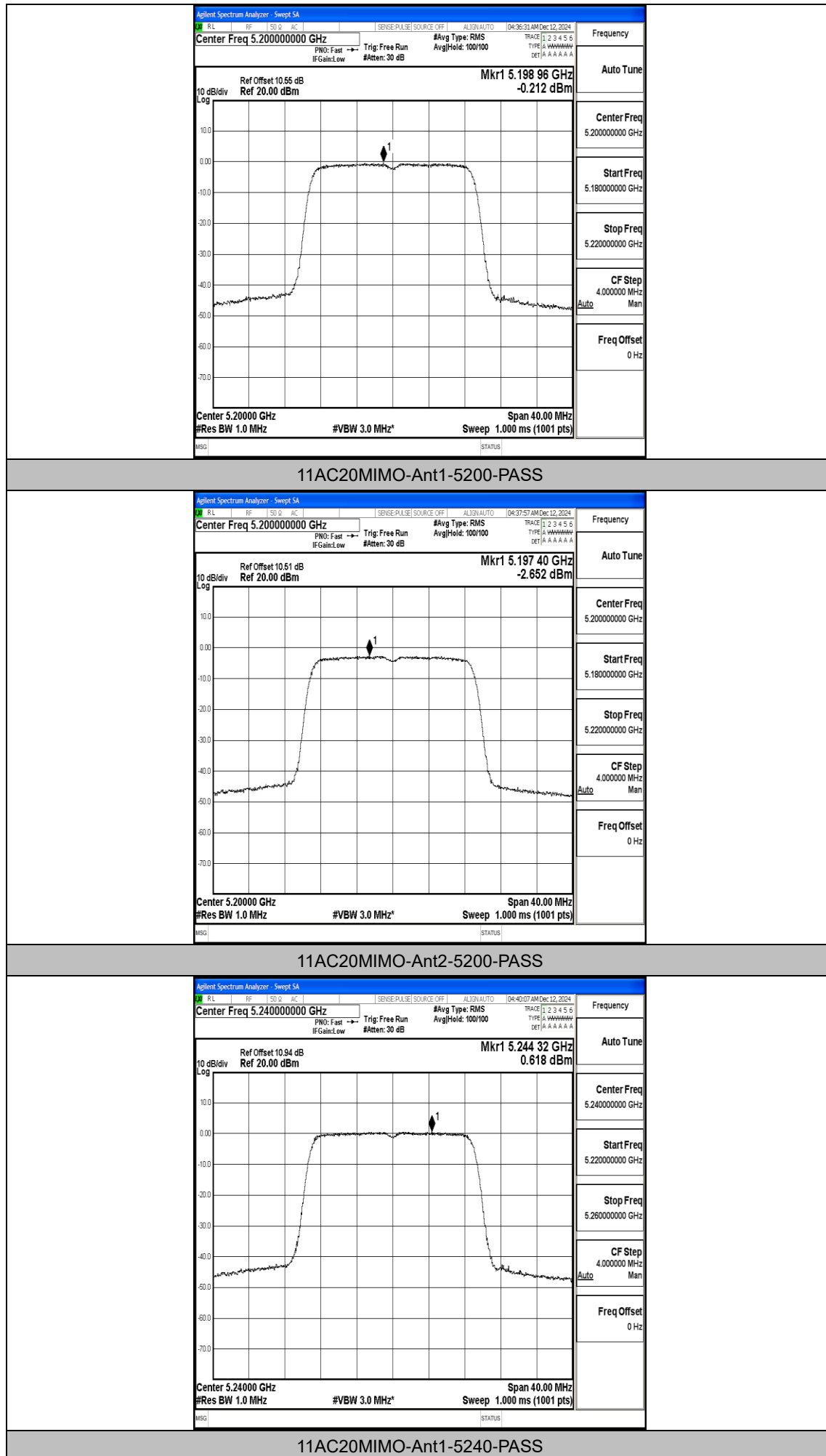
11N20MIMO-Ant2-5240-PASS

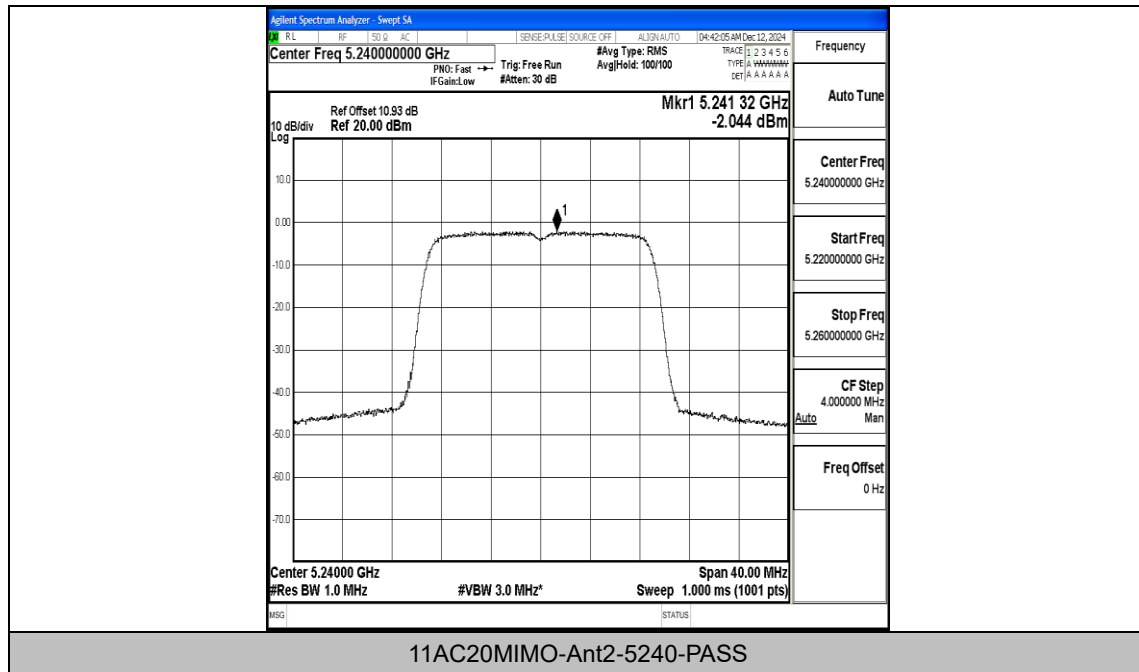


11AC20MIMO-Ant1-5180-PASS



11AC20MIMO-Ant2-5180-PASS





Appendix D: Band edge measurements

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5180	-33.89	≤ -27	PASS
11A	Ant2	Low	5180	-33.78	≤ -27	PASS
11A	Ant1	High	5240	-32.54	≤ -27	PASS
11A	Ant2	High	5240	-33.14	≤ -27	PASS
11N20MIMO	Ant1	Low	5180	-33.83	≤ -27	PASS
11N20MIMO	Ant2	Low	5180	-34.07	≤ -27	PASS
11N20MIMO	Ant1	High	5240	-33.01	≤ -27	PASS
11N20MIMO	Ant2	High	5240	-33.18	≤ -27	PASS
11AC20MIMO	Ant1	Low	5180	-33.64	≤ -27	PASS
11AC20MIMO	Ant2	Low	5180	-33.6	≤ -27	PASS
11AC20MIMO	Ant1	High	5240	-32.52	≤ -27	PASS
11AC20MIMO	Ant2	High	5240	-33.5	≤ -27	PASS

Test Graphs

