

RF Test Data for RLAN(5.8G) (Conducted Measurement)

Product Name: Motorcycle DVR Dash Camera

Trade Mark: HFK

Test Model: HM603

FCC ID: 2BFHY-HM603

Environmental Conditions

Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

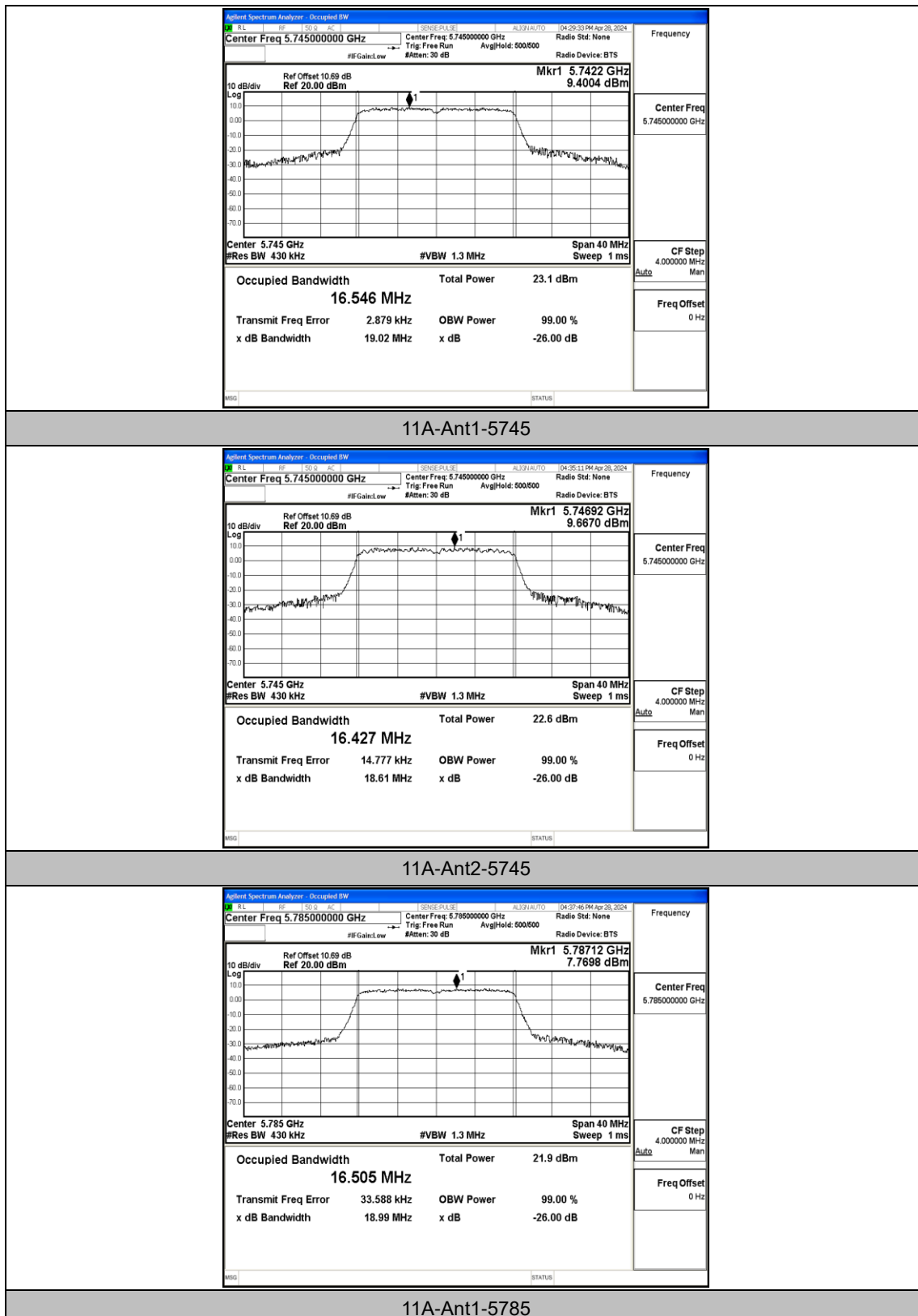
Appendix A2: Occupied channel bandwidth

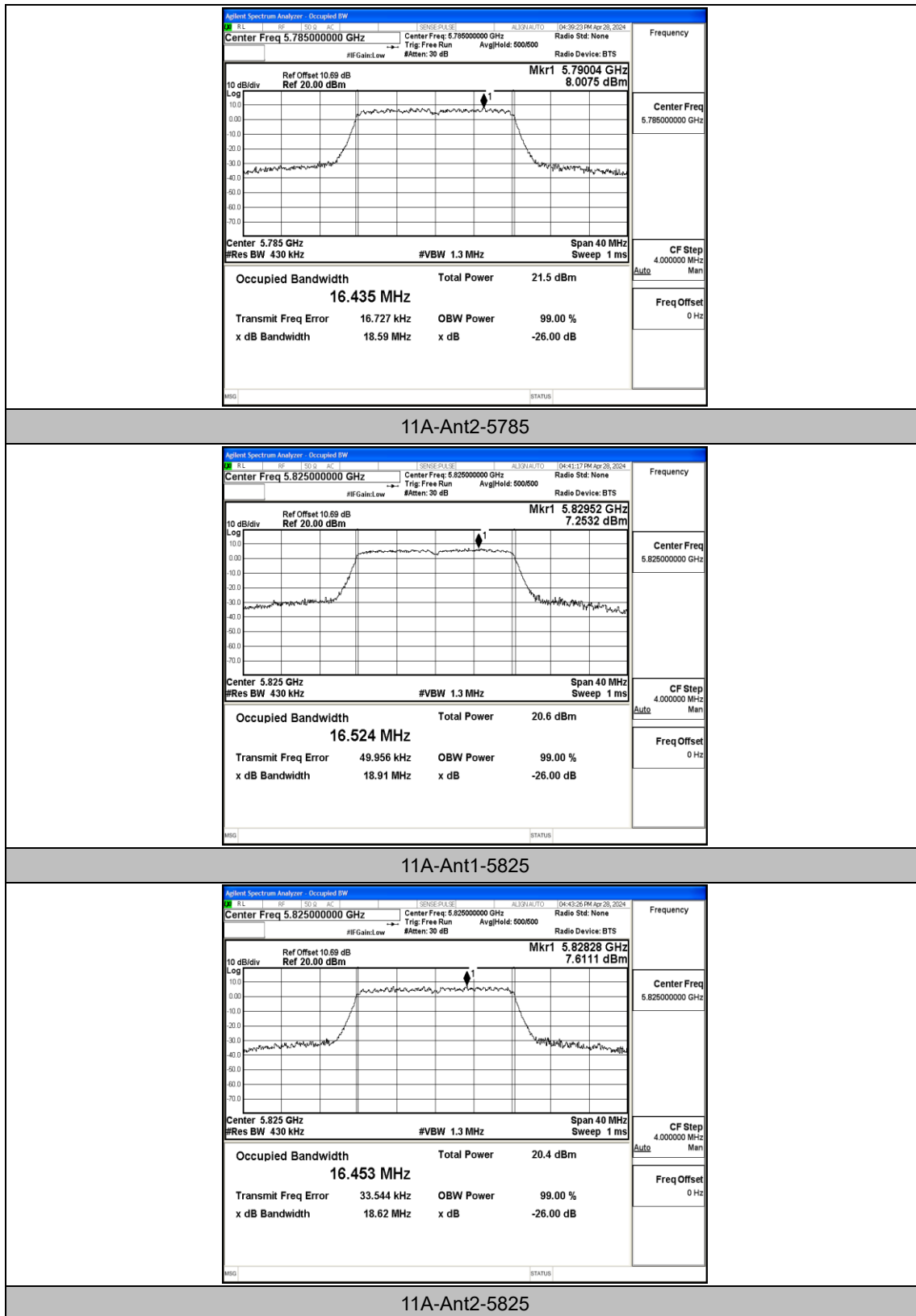
Test Result

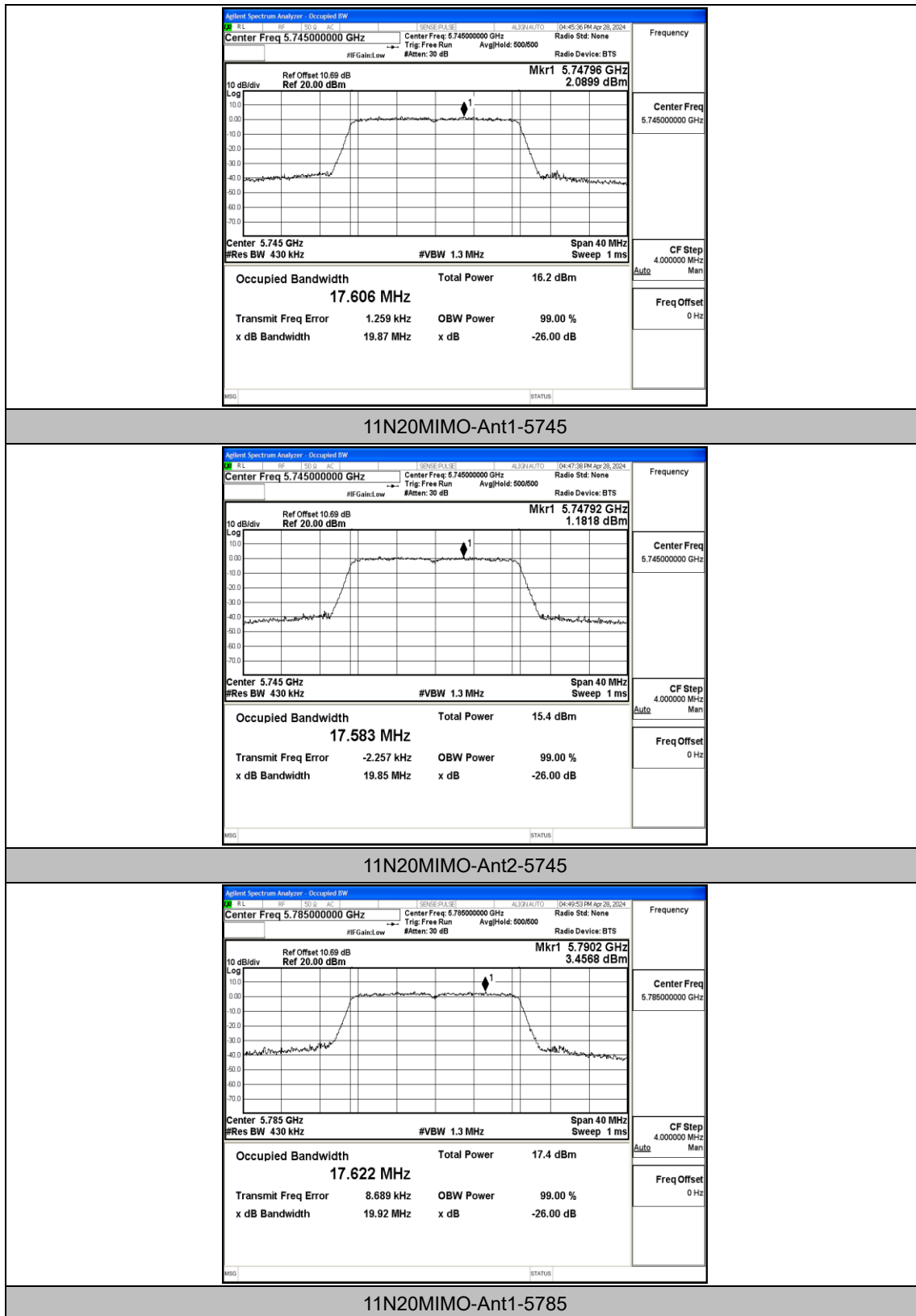
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.546	5736.7299	5753.2759	---	---
11A	Ant2	5745	16.427	5736.8013	5753.2283	---	---
11A	Ant1	5785	16.505	5776.7811	5793.2861	---	---
11A	Ant2	5785	16.435	5776.7992	5793.2342	---	---
11A	Ant1	5825	16.524	5816.7880	5833.3120	---	---
11A	Ant2	5825	16.453	5816.8070	5833.2600	---	---
11N20MIMO	Ant1	5745	17.606	5736.1983	5753.8043	---	---
11N20MIMO	Ant2	5745	17.583	5736.2062	5753.7892	---	---
11N20MIMO	Ant1	5785	17.622	5776.1977	5793.8197	---	---
11N20MIMO	Ant2	5785	17.633	5776.2003	5793.8333	---	---
11N20MIMO	Ant1	5825	17.656	5816.2063	5833.8623	---	---
11N20MIMO	Ant2	5825	17.641	5816.2094	5833.8504	---	---
11N40MIMO	Ant1	5755	36.372	5736.7612	5773.1332	---	---
11N40MIMO	Ant2	5755	36.412	5736.7468	5773.1588	---	---
11N40MIMO	Ant1	5795	36.146	5776.8832	5813.0292	---	---
11N40MIMO	Ant2	5795	36.278	5776.8634	5813.1414	---	---
11AC20MIMO	Ant1	5745	17.666	5736.1910	5753.8570	---	---
11AC20MIMO	Ant2	5745	17.656	5736.1854	5753.8414	---	---
11AC20MIMO	Ant1	5785	17.724	5776.1744	5793.8984	---	---
11AC20MIMO	Ant2	5785	17.736	5776.1659	5793.9019	---	---
11AC20MIMO	Ant1	5825	17.813	5816.1215	5833.9345	---	---
11AC20MIMO	Ant2	5825	17.828	5816.1370	5833.9650	---	---
11AC40MIMO	Ant1	5755	36.148	5736.8967	5773.0447	---	---
11AC40MIMO	Ant2	5755	36.165	5736.8632	5773.0282	---	---
11AC40MIMO	Ant1	5795	36.146	5776.9154	5813.0614	---	---

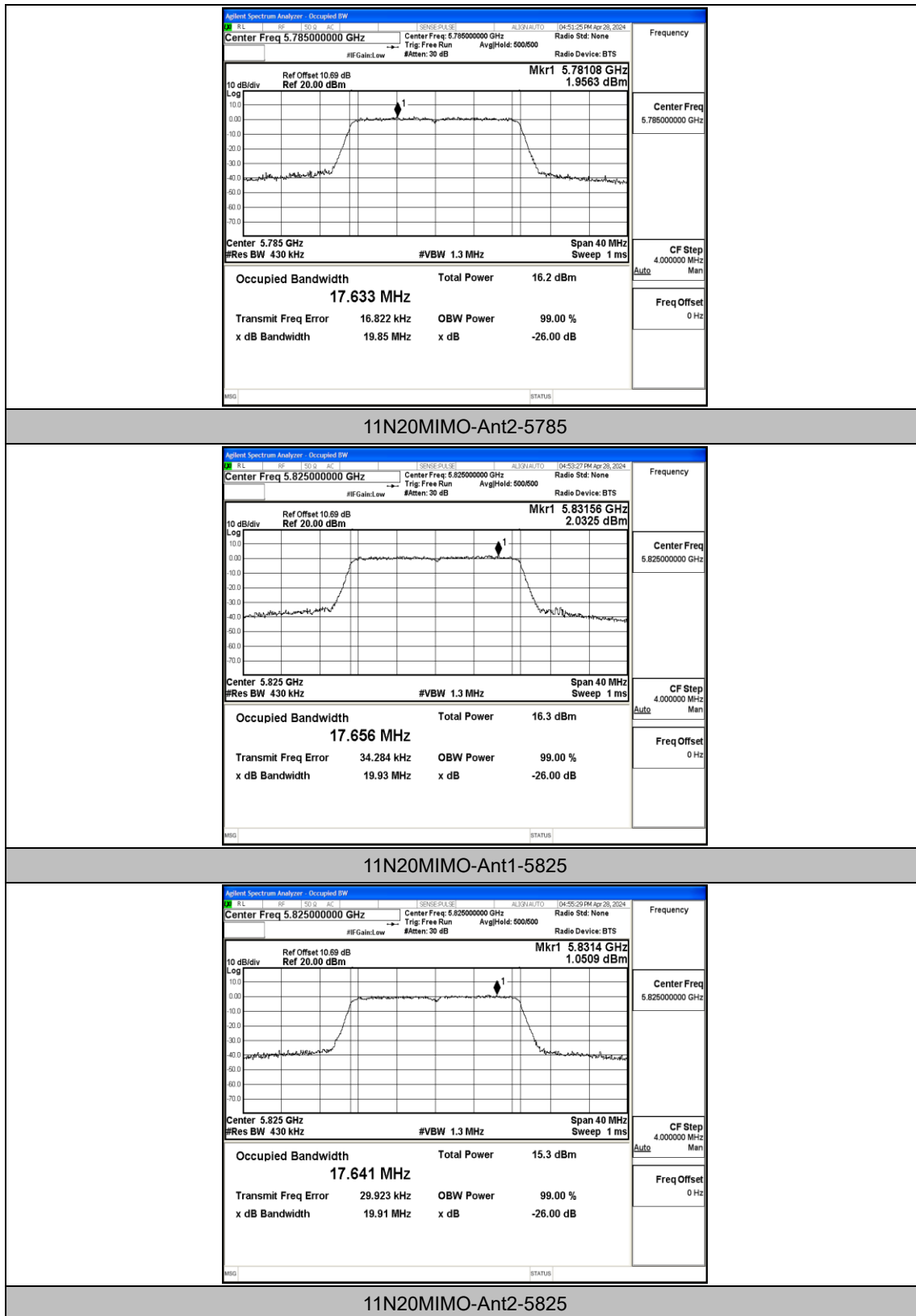
11AC40MIMO	Ant2	5795	36.171	5776.8904	5813.0614	---	---
11AC80MIMO	Ant1	5775	75.344	5737.3482	5812.6922	---	---
11AC80MIMO	Ant2	5775	75.842	5736.9592	5812.8012	---	---

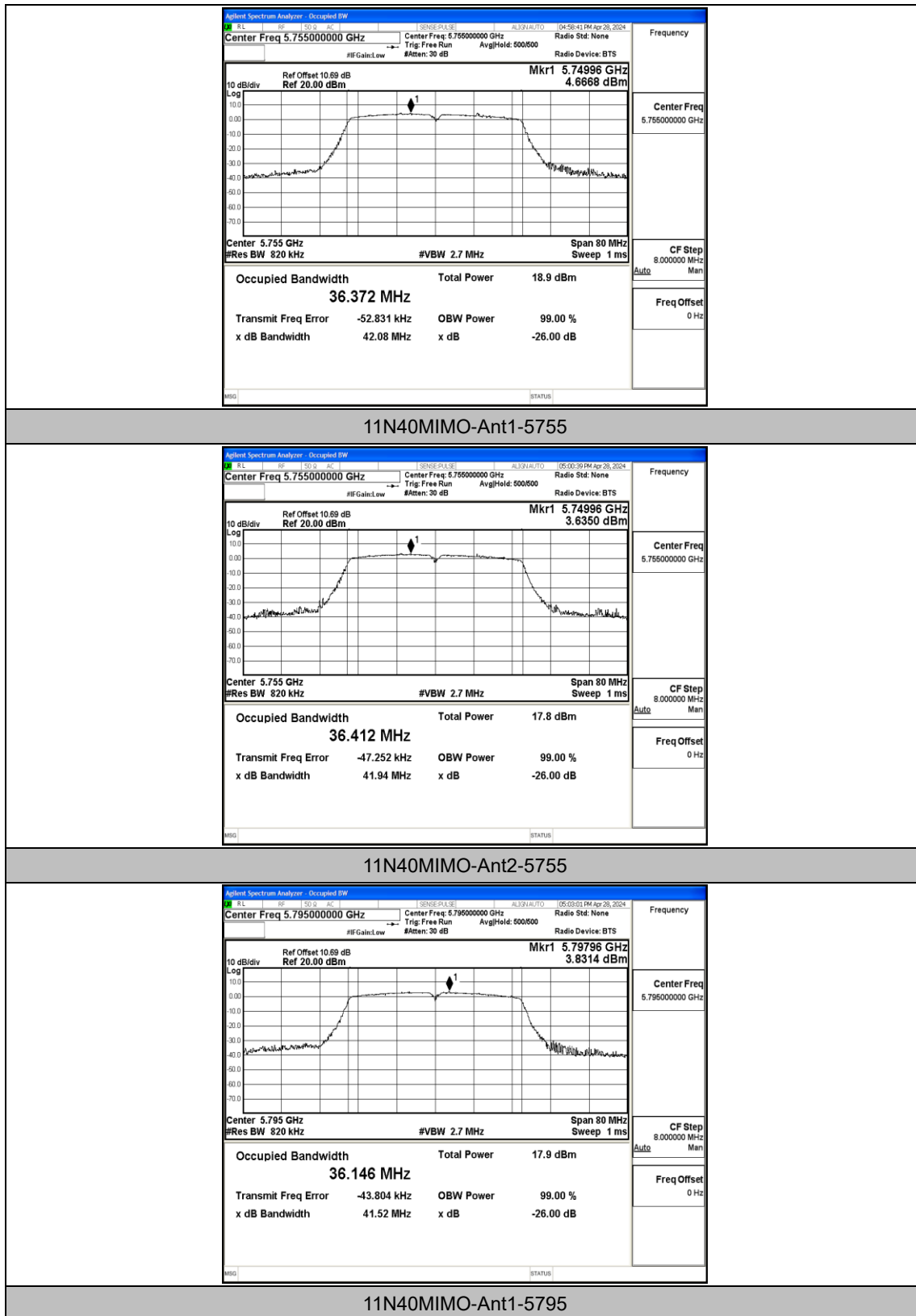
Test Graphs

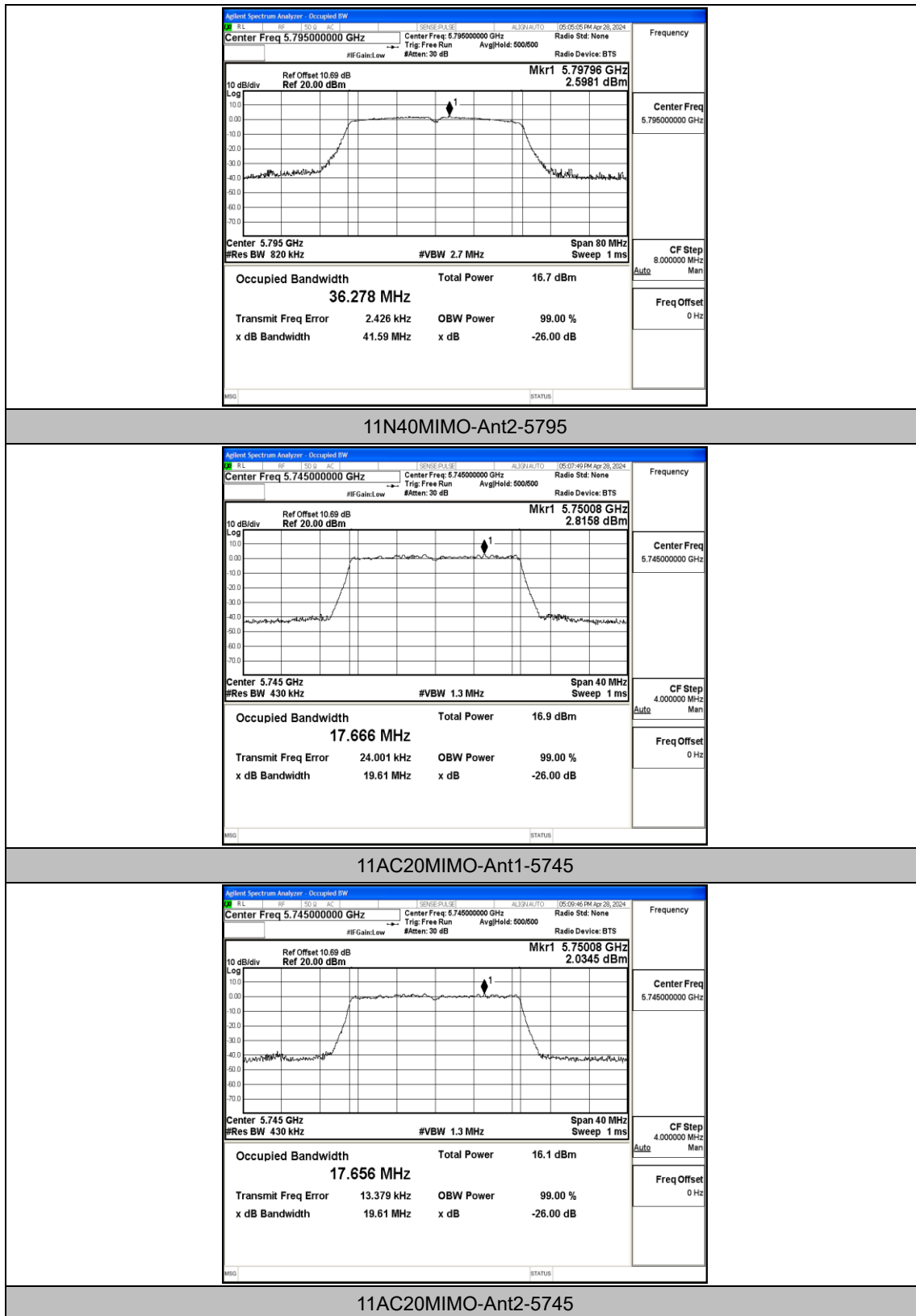


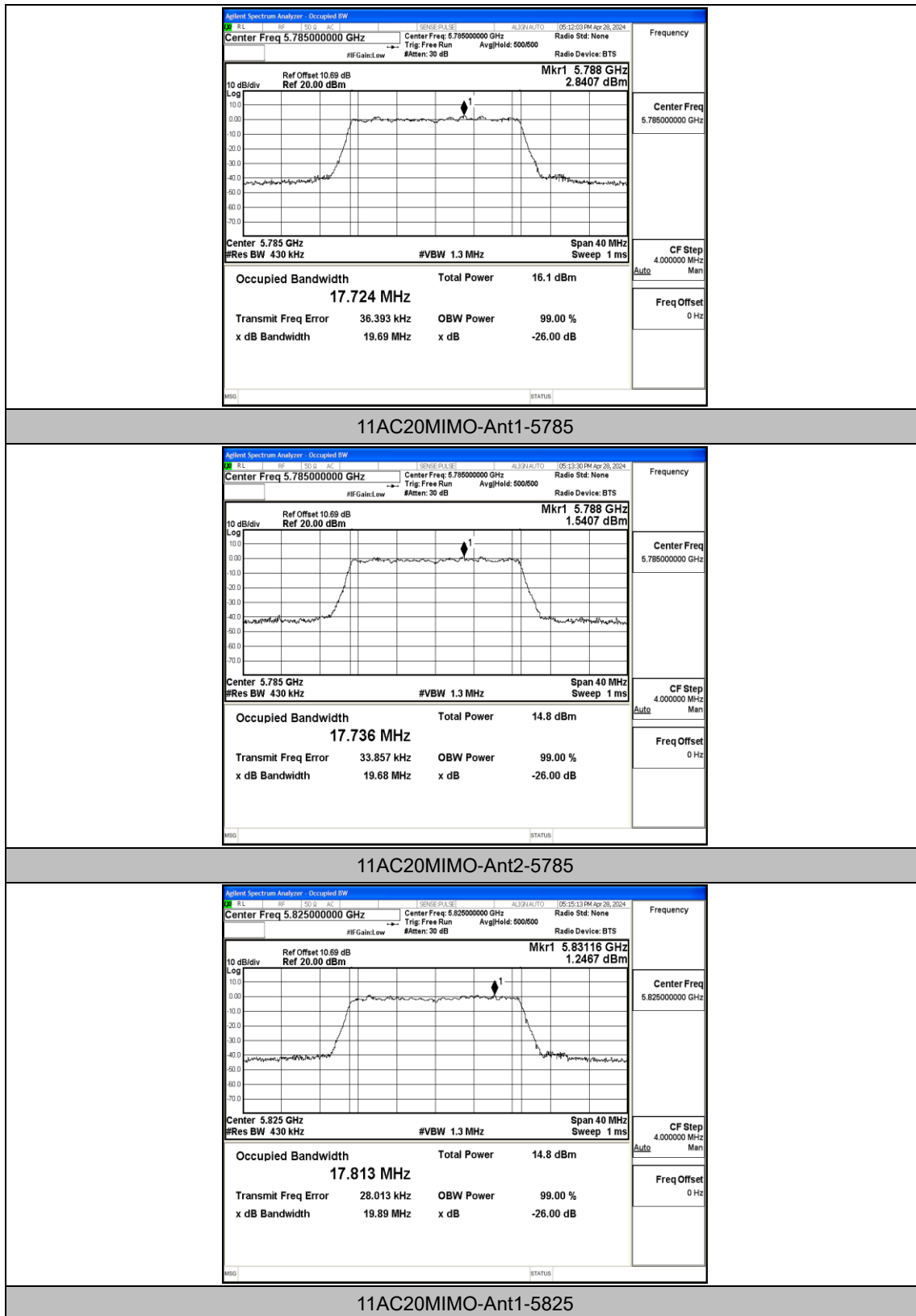


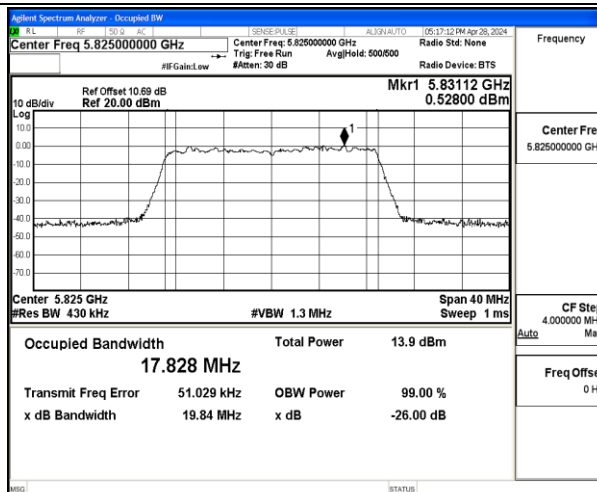




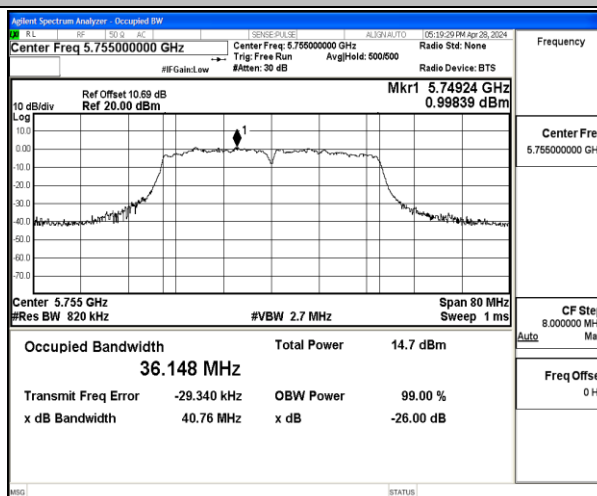




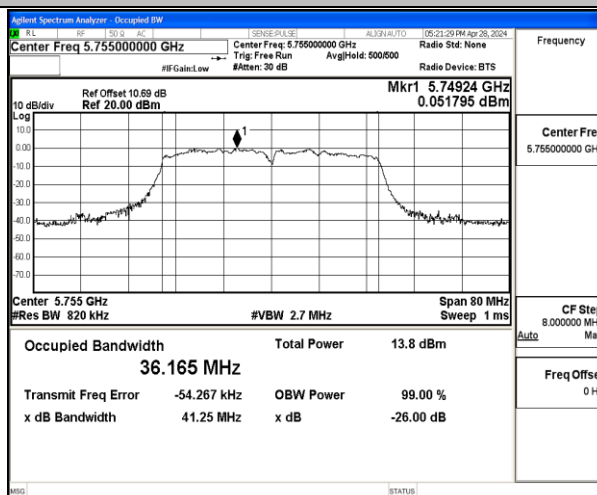




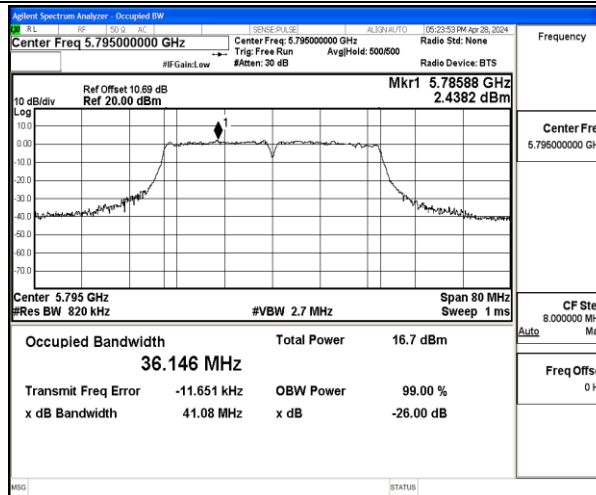
11AC20MIMO-Ant2-5825



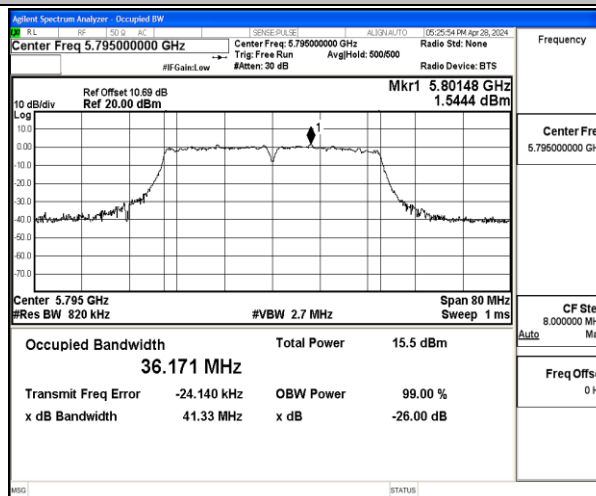
11AC40MIMO-Ant1-5755



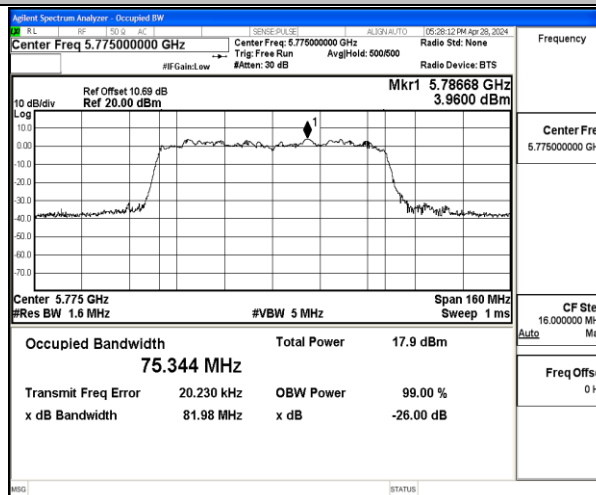
11AC40MIMO-Ant2-5755



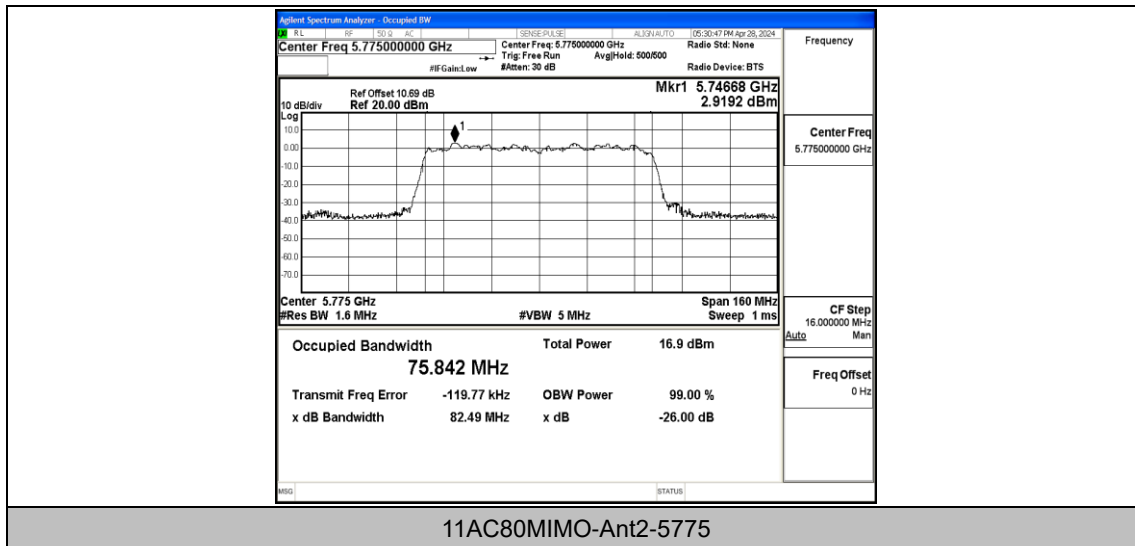
11AC40MIMO-Ant1-5795



11AC40MIMO-Ant2-5795



11AC80MIMO-Ant1-5775

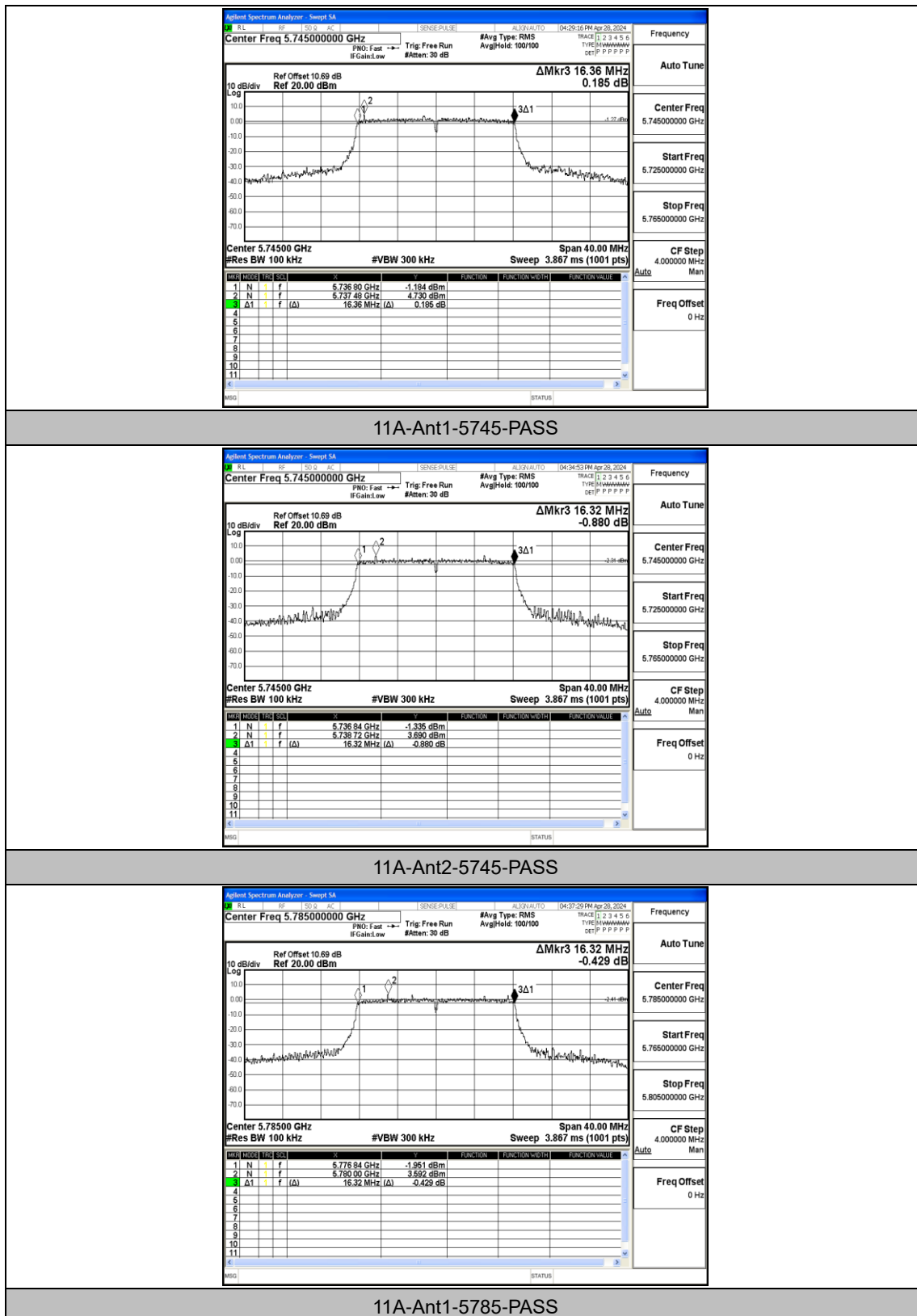


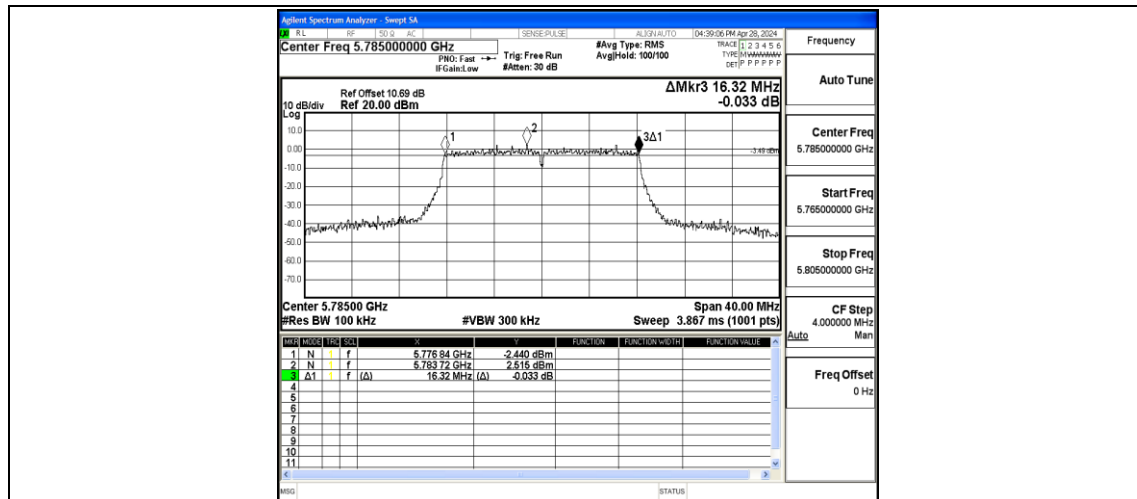
Appendix A: Min emission bandwidth

Test Result

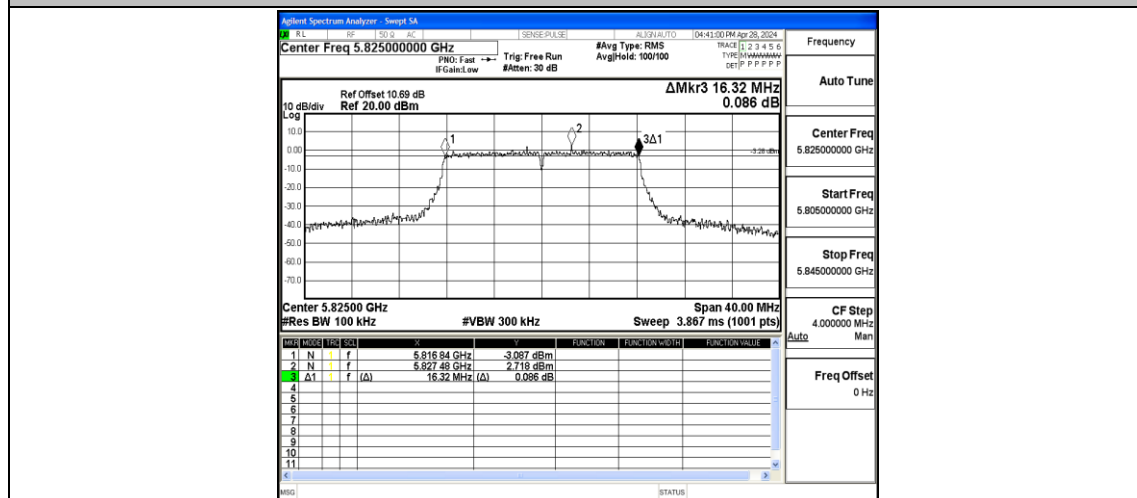
TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.360	5736.800	5753.160	0.5	PASS
11A	Ant2	5745	16.320	5736.840	5753.160	0.5	PASS
11A	Ant1	5785	16.320	5776.840	5793.160	0.5	PASS
11A	Ant2	5785	16.320	5776.840	5793.160	0.5	PASS
11A	Ant1	5825	16.320	5816.840	5833.160	0.5	PASS
11A	Ant2	5825	16.320	5816.840	5833.160	0.5	PASS
11N20MIMO	Ant1	5745	16.920	5736.440	5753.360	0.5	PASS
11N20MIMO	Ant2	5745	17.560	5736.200	5753.760	0.5	PASS
11N20MIMO	Ant1	5785	17.560	5776.200	5793.760	0.5	PASS
11N20MIMO	Ant2	5785	17.520	5776.240	5793.760	0.5	PASS
11N20MIMO	Ant1	5825	17.560	5816.200	5833.760	0.5	PASS
11N20MIMO	Ant2	5825	17.120	5816.640	5833.760	0.5	PASS
11N40MIMO	Ant1	5755	34.960	5737.480	5772.440	0.5	PASS
11N40MIMO	Ant2	5755	35.040	5737.480	5772.520	0.5	PASS
11N40MIMO	Ant1	5795	33.840	5778.680	5812.520	0.5	PASS
11N40MIMO	Ant2	5795	35.120	5777.400	5812.520	0.5	PASS
11AC20MIMO	Ant1	5745	17.280	5736.480	5753.760	0.5	PASS
11AC20MIMO	Ant2	5745	17.520	5736.240	5753.760	0.5	PASS
11AC20MIMO	Ant1	5785	17.480	5776.160	5793.640	0.5	PASS
11AC20MIMO	Ant2	5785	17.560	5776.200	5793.760	0.5	PASS
11AC20MIMO	Ant1	5825	17.640	5816.160	5833.800	0.5	PASS
11AC20MIMO	Ant2	5825	17.560	5816.240	5833.800	0.5	PASS
11AC40MIMO	Ant1	5755	35.120	5737.400	5772.520	0.5	PASS
11AC40MIMO	Ant2	5755	35.120	5737.400	5772.520	0.5	PASS
11AC40MIMO	Ant1	5795	35.360	5777.160	5812.520	0.5	PASS
11AC40MIMO	Ant2	5795	35.360	5777.160	5812.520	0.5	PASS
11AC80MIMO	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS
11AC80MIMO	Ant2	5775	75.200	5737.400	5812.600	0.5	PASS

Test Graphs

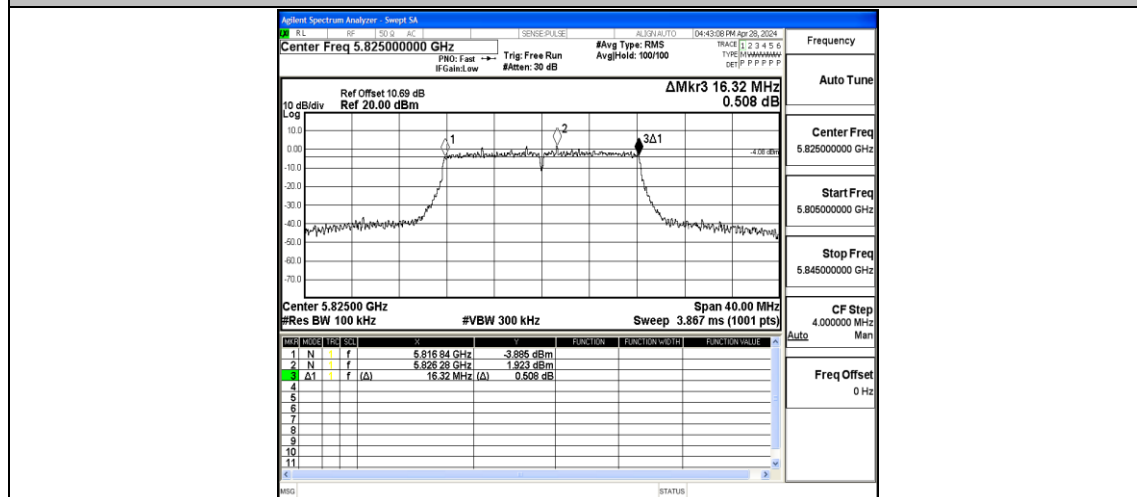




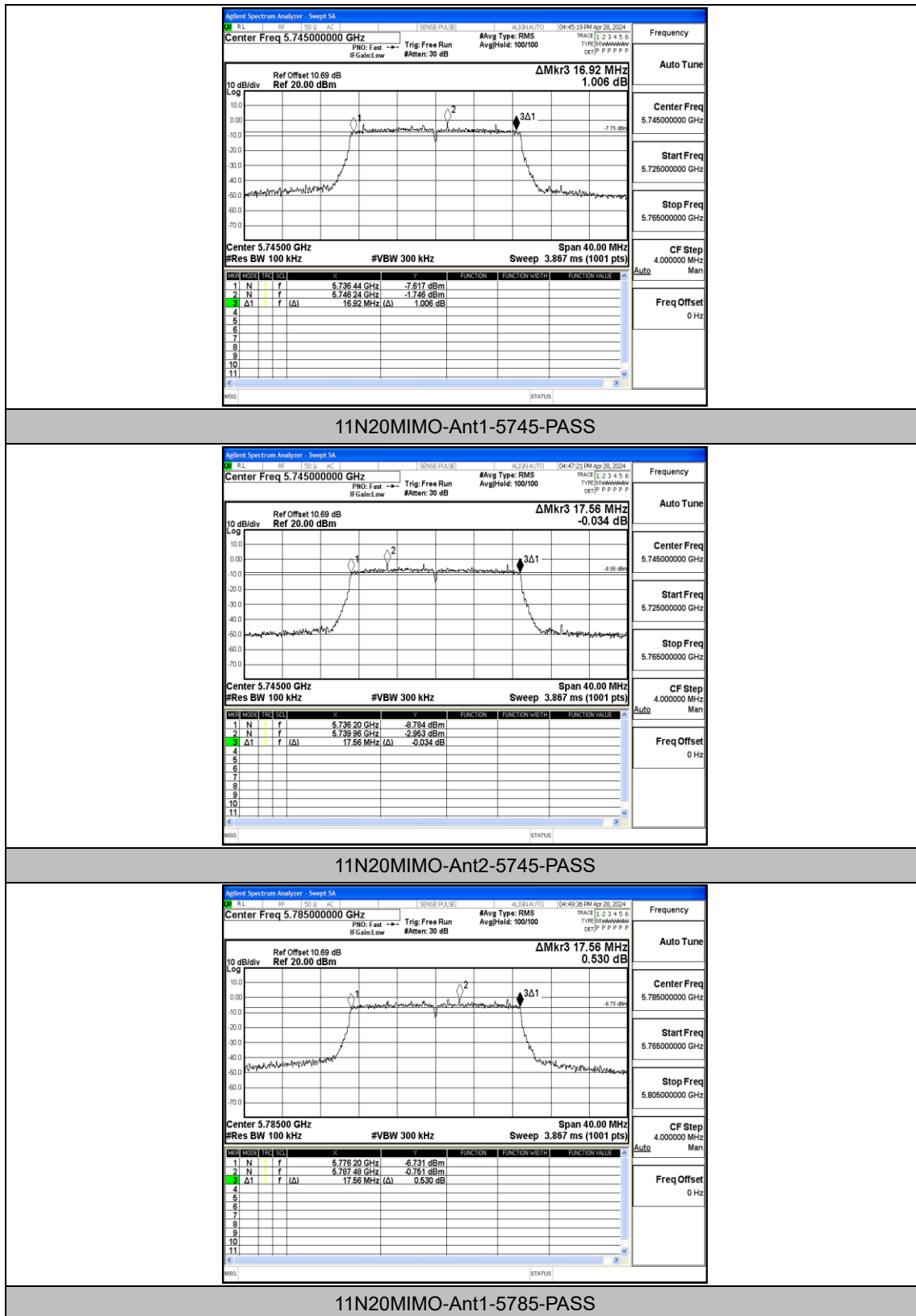
11A-Ant2-5785-PASS

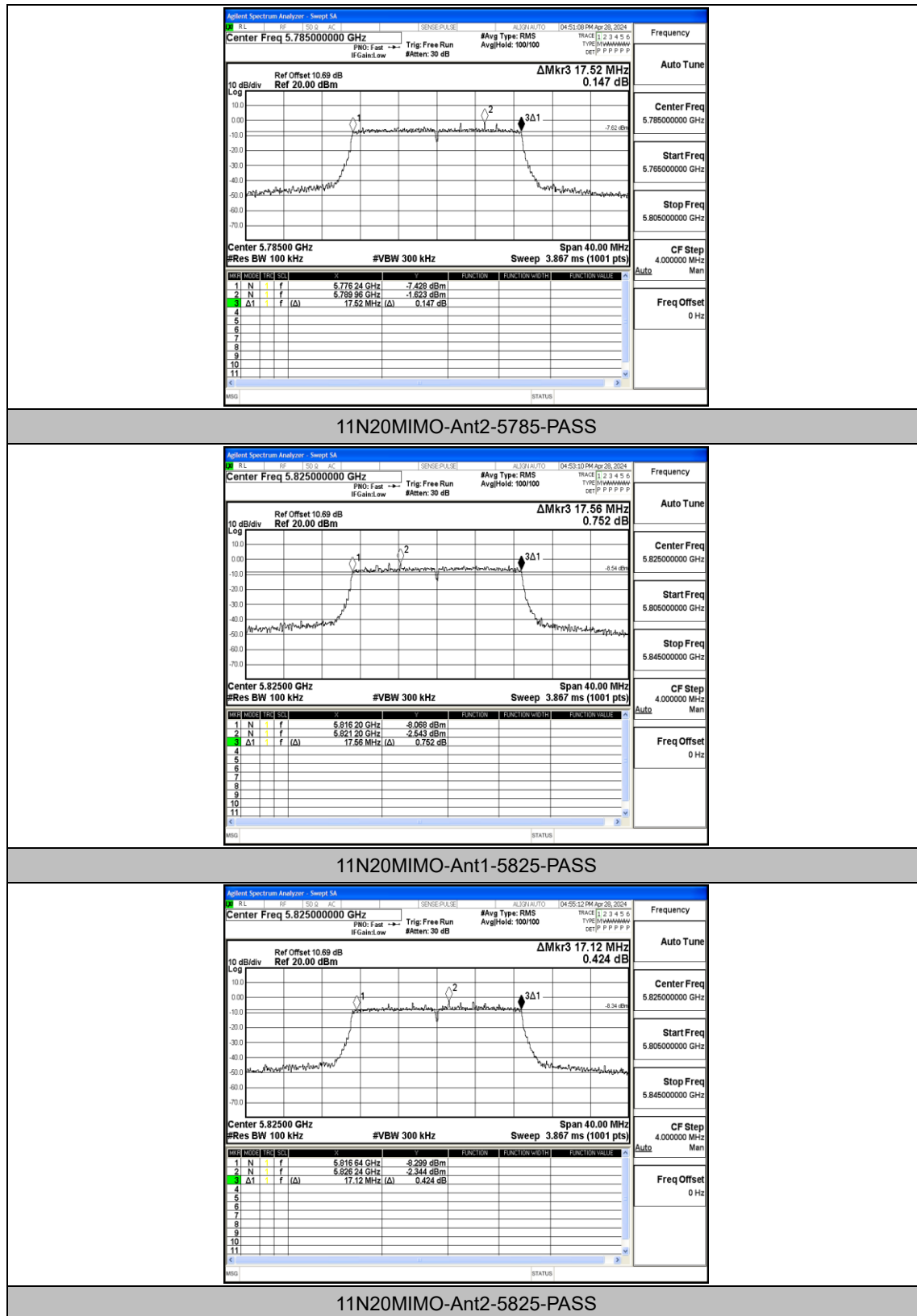


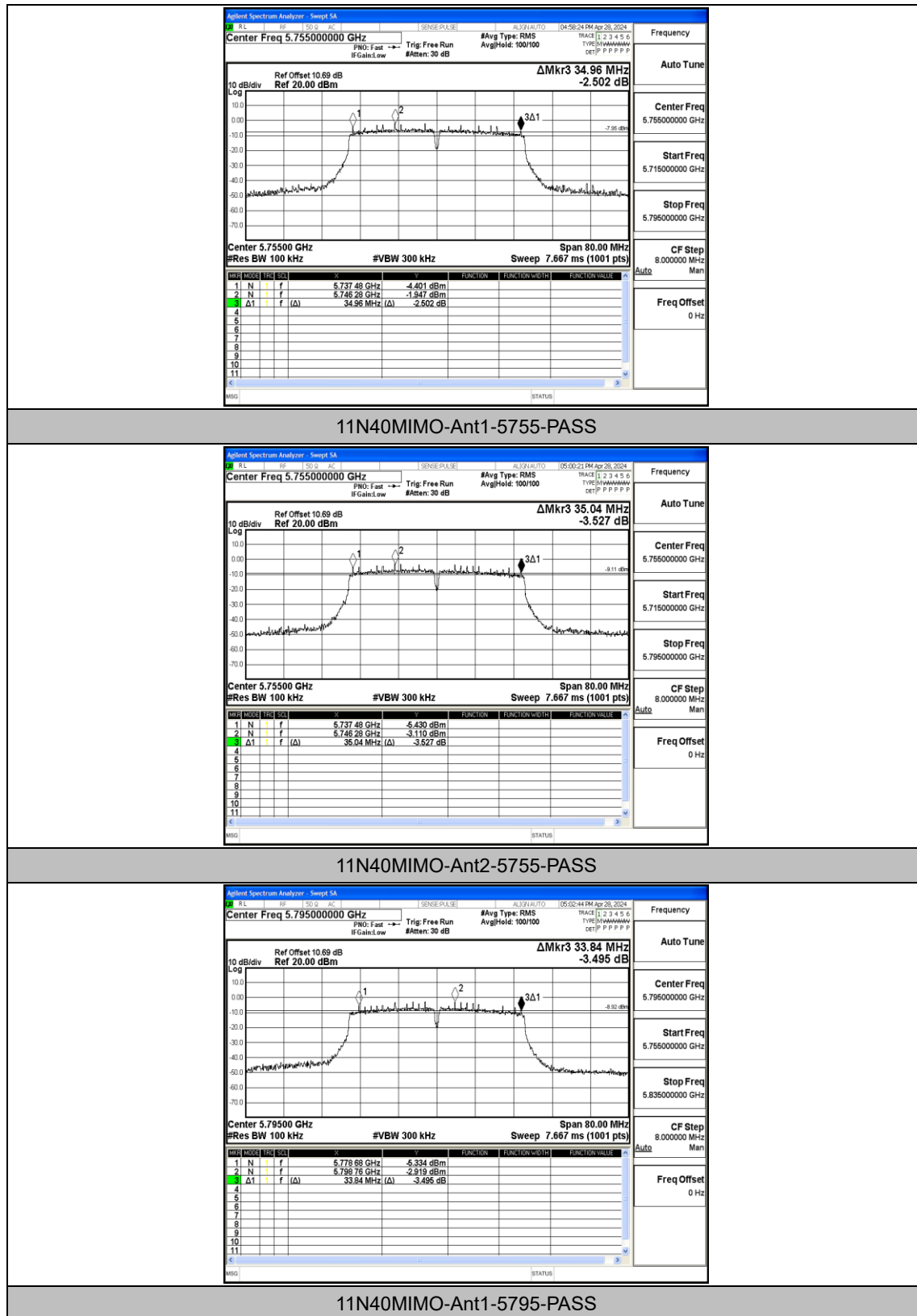
11A-Ant1-5825-PASS

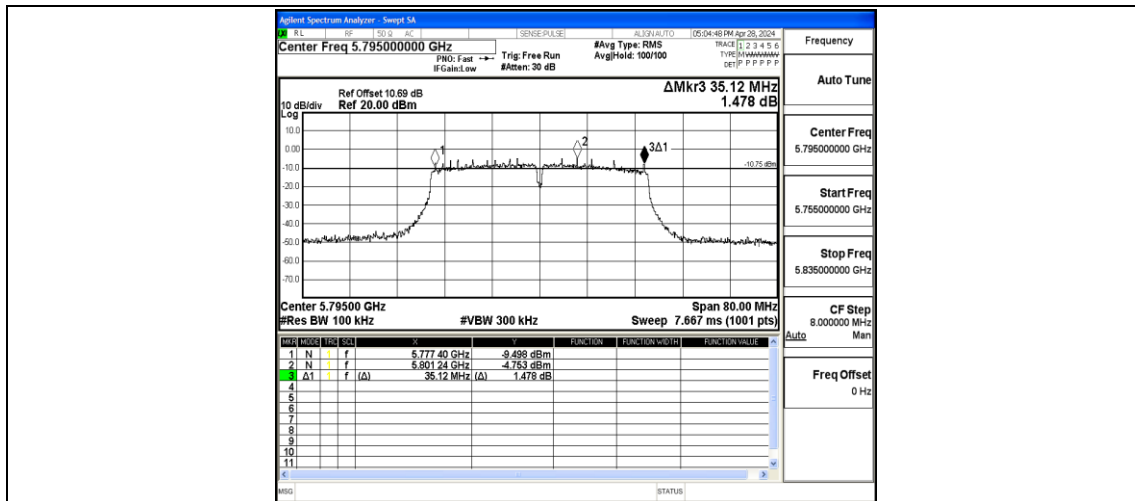


11A-Ant2-5825-PASS

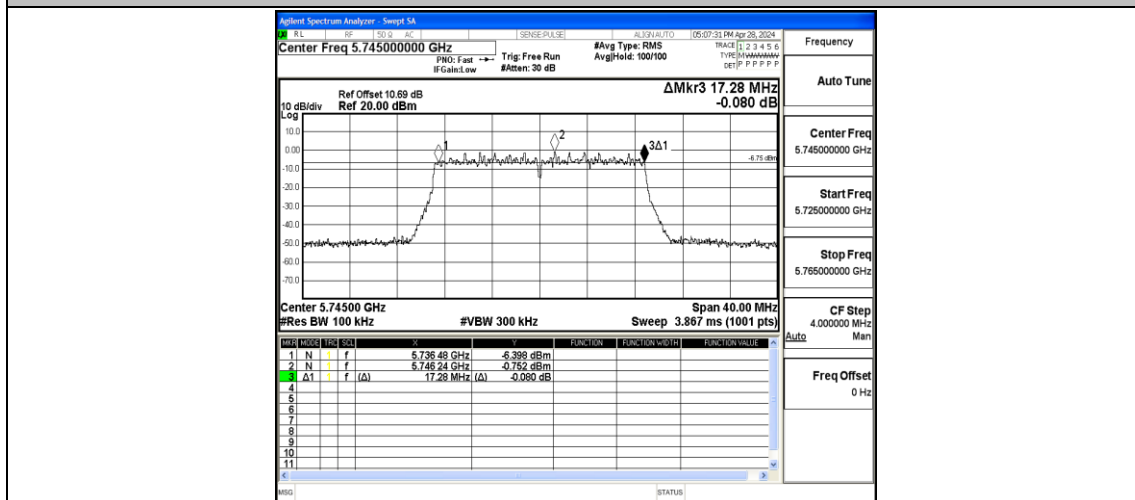




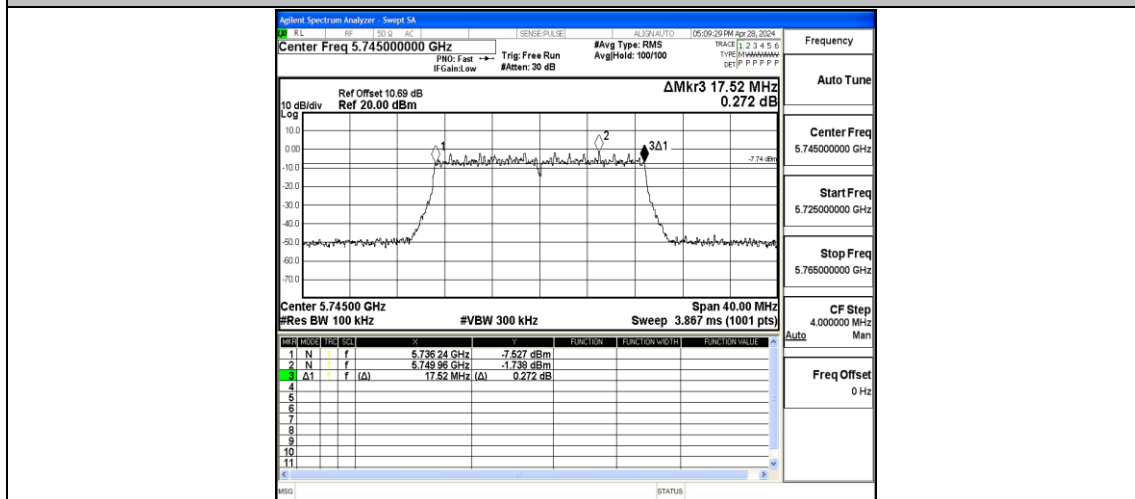




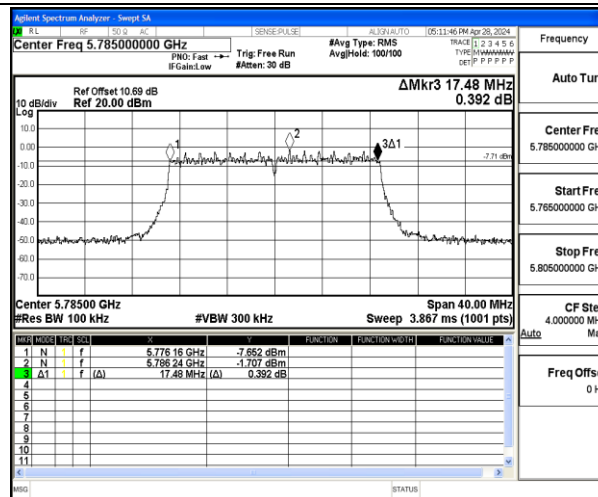
11N40MIMO-Ant2-5795-PASS



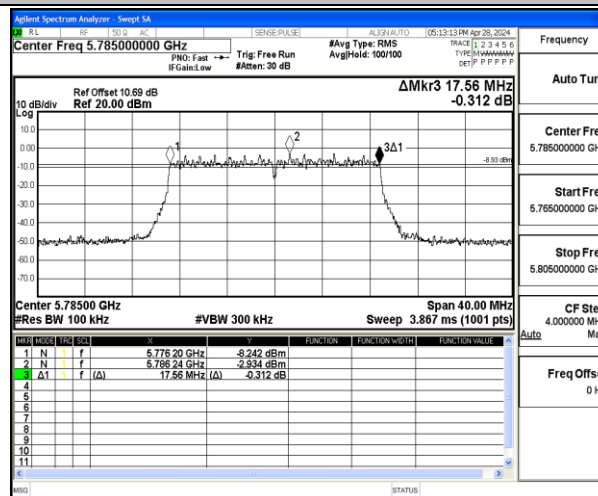
11AC20MIMO-Ant1-5745-PASS



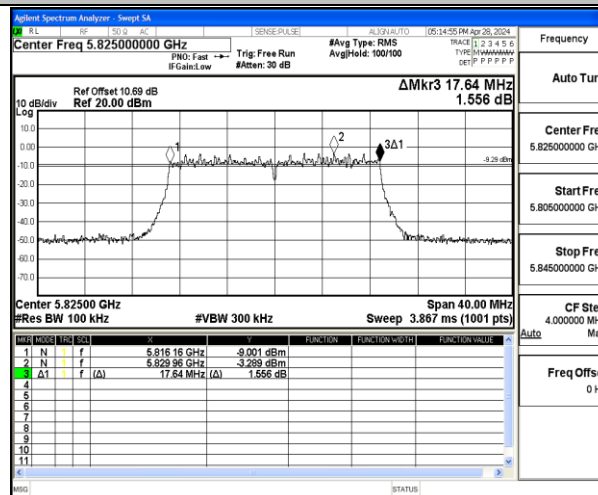
11AC20MIMO-Ant2-5745-PASS



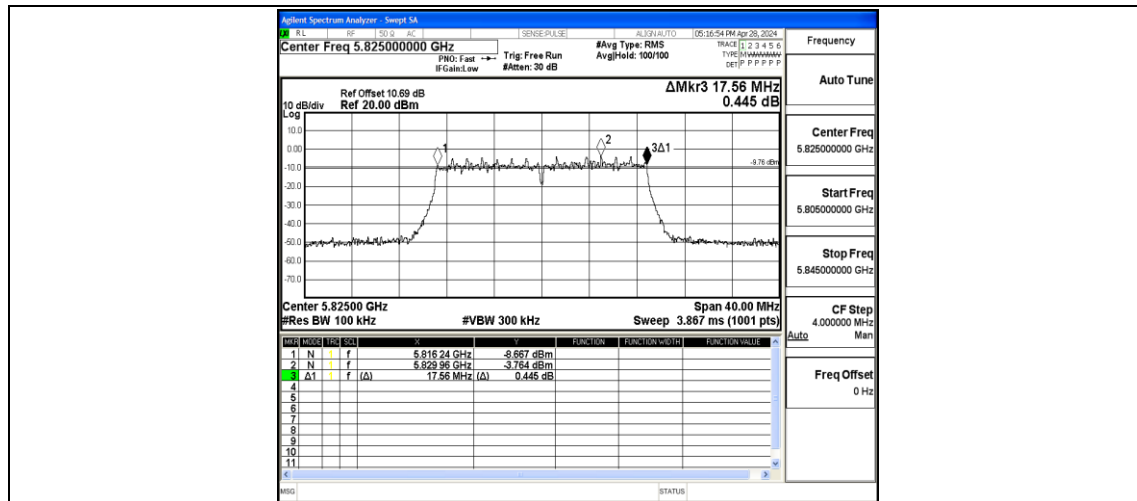
11AC20MIMO-Ant1-5785-PASS



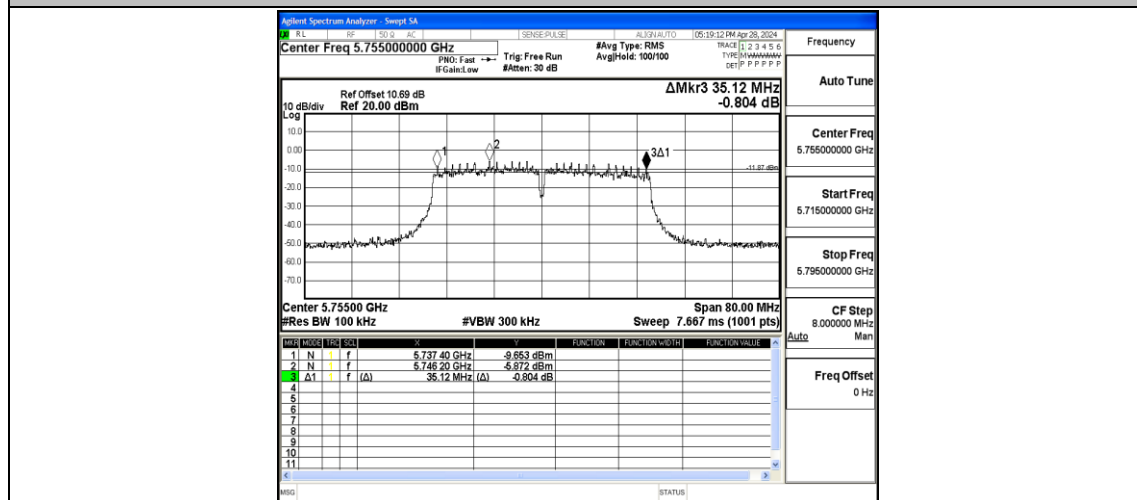
11AC20MIMO-Ant2-5785-PASS



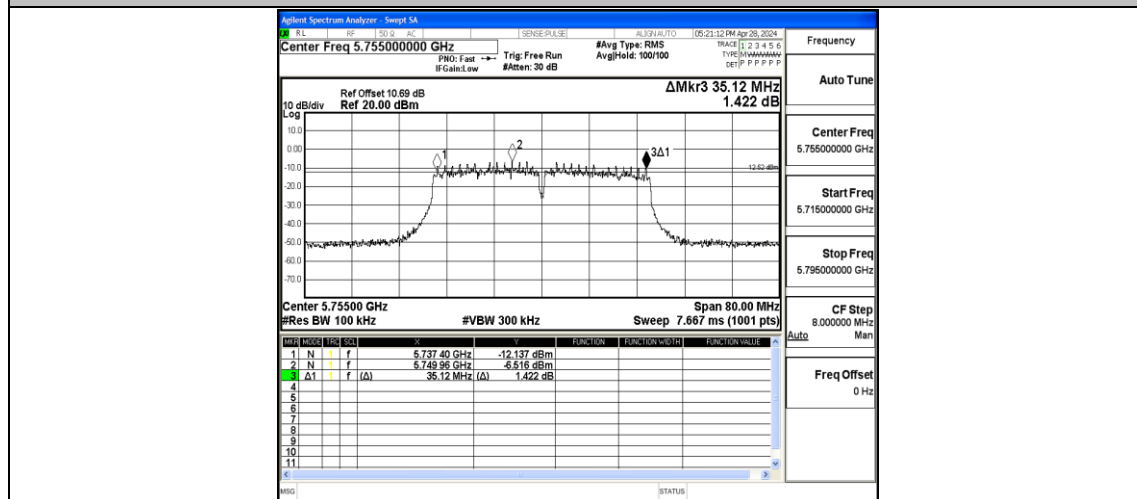
11AC20MIMO-Ant1-5825-PASS



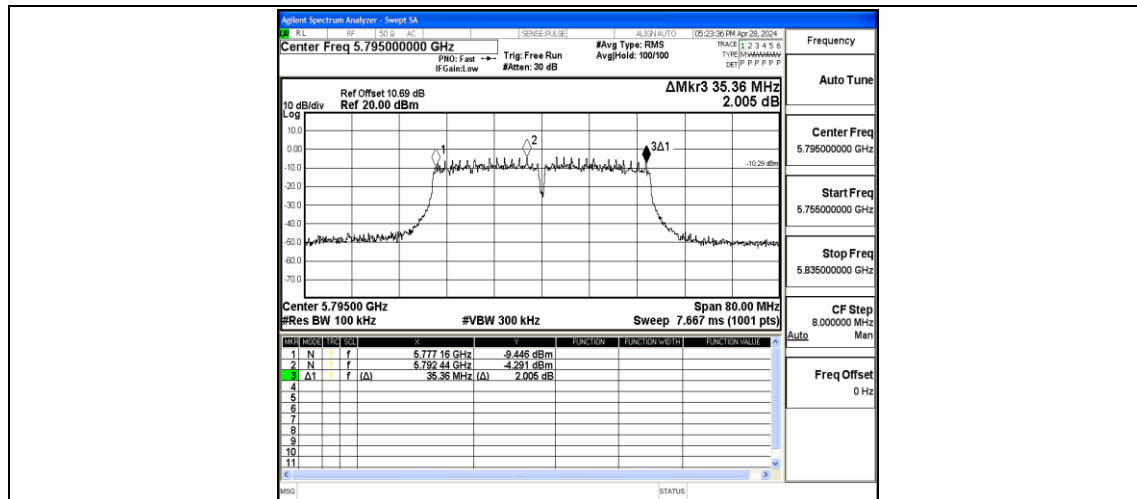
11AC20MIMO-Ant2-5825-PASS



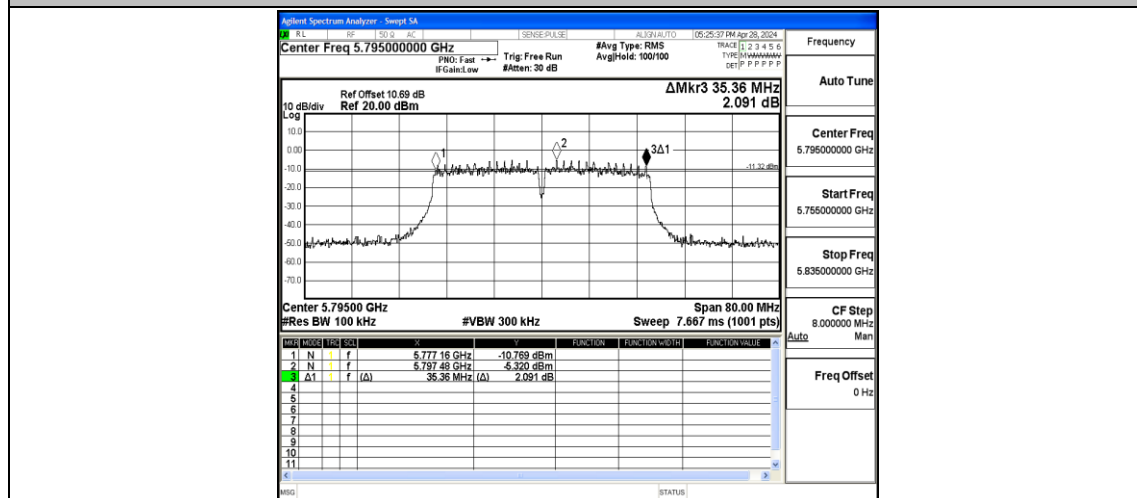
11AC40MIMO-Ant1-5755-PASS



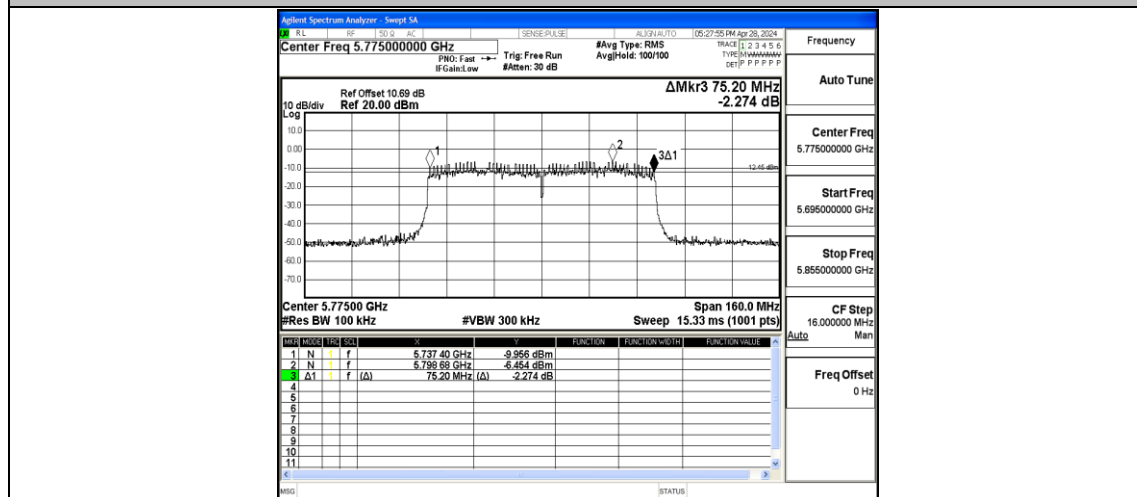
11AC40MIMO-Ant2-5755-PASS



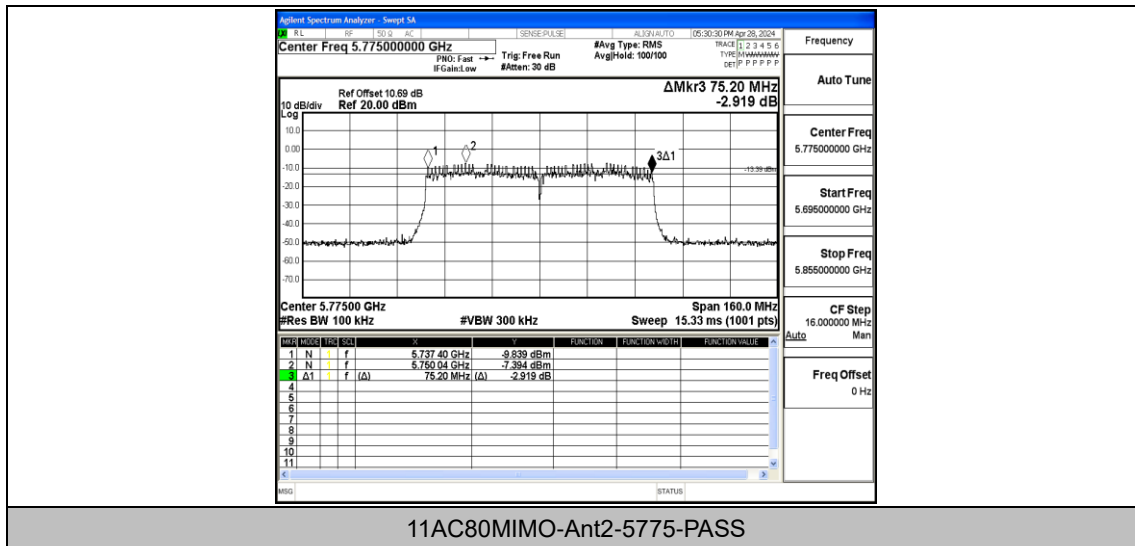
11AC40MIMO-Ant1-5795-PASS



11AC40MIMO-Ant2-5795-PASS



11AC80MIMO-Ant1-5775-PASS



Appendix B: Maximum conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11A	Ant1	5745	16.37	≤30.00	PASS
11A	Ant2	5745	15.51	≤30.00	PASS
11A	Ant1	5785	15.38	≤30.00	PASS
11A	Ant2	5785	14.20	≤30.00	PASS
11A	Ant1	5825	14.18	≤30.00	PASS
11A	Ant2	5825	13.30	≤30.00	PASS
11N20MIMO	Ant1	5745	9.72	≤30.00	PASS
11N20MIMO	Ant2	5745	8.82	≤30.00	PASS
11N20MIMO	total	5745	12.30	≤30.00	PASS
11N20MIMO	Ant1	5785	10.80	≤30.00	PASS
11N20MIMO	Ant2	5785	9.67	≤30.00	PASS
11N20MIMO	total	5785	13.28	≤30.00	PASS
11N20MIMO	Ant1	5825	9.72	≤30.00	PASS
11N20MIMO	Ant2	5825	8.70	≤30.00	PASS
11N20MIMO	total	5825	12.25	≤30.00	PASS
11N40MIMO	Ant1	5755	11.42	≤30.00	PASS
11N40MIMO	Ant2	5755	10.60	≤30.00	PASS
11N40MIMO	total	5755	14.04	≤30.00	PASS
11N40MIMO	Ant1	5795	10.95	≤30.00	PASS
11N40MIMO	Ant2	5795	9.26	≤30.00	PASS
11N40MIMO	total	5795	13.20	≤30.00	PASS
11AC20MIMO	Ant1	5745	10.62	≤30.00	PASS
11AC20MIMO	Ant2	5745	9.85	≤30.00	PASS
11AC20MIMO	total	5745	13.26	≤30.00	PASS
11AC20MIMO	Ant1	5785	9.85	≤30.00	PASS
11AC20MIMO	Ant2	5785	8.61	≤30.00	PASS
11AC20MIMO	total	5785	12.28	≤30.00	PASS
11AC20MIMO	Ant1	5825	8.38	≤30.00	PASS
11AC20MIMO	Ant2	5825	7.15	≤30.00	PASS
11AC20MIMO	total	5825	10.82	≤30.00	PASS
11AC40MIMO	Ant1	5755	8.35	≤30.00	PASS
11AC40MIMO	Ant2	5755	7.52	≤30.00	PASS
11AC40MIMO	total	5755	10.97	≤30.00	PASS
11AC40MIMO	Ant1	5795	10.08	≤30.00	PASS
11AC40MIMO	Ant2	5795	9.33	≤30.00	PASS
11AC40MIMO	total	5795	12.73	≤30.00	PASS
11AC80MIMO	Ant1	5775	11.28	≤30.00	PASS
11AC80MIMO	Ant2	5775	9.18	≤30.00	PASS
11AC80MIMO	total	5775	13.37	≤30.00	PASS

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

Appendix C: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	2.84	≤30.00	PASS
11A	Ant2	5745	1.80	≤30.00	PASS
11A	Ant1	5785	1.80	≤30.00	PASS
11A	Ant2	5785	0.48	≤30.00	PASS
11A	Ant1	5825	0.20	≤30.00	PASS
11A	Ant2	5825	-0.50	≤30.00	PASS
11N20MIMO	Ant1	5745	-4.20	≤30.00	PASS
11N20MIMO	Ant2	5745	-5.51	≤30.00	PASS
11N20MIMO	total	5745	-1.80	≤30.00	PASS
11N20MIMO	Ant1	5785	-3.15	≤30.00	PASS
11N20MIMO	Ant2	5785	-4.35	≤30.00	PASS
11N20MIMO	total	5785	-0.70	≤30.00	PASS
11N20MIMO	Ant1	5825	-4.49	≤30.00	PASS
11N20MIMO	Ant2	5825	-5.42	≤30.00	PASS
11N20MIMO	total	5825	-1.92	≤30.00	PASS
11N40MIMO	Ant1	5755	-5.29	≤30.00	PASS
11N40MIMO	Ant2	5755	-5.89	≤30.00	PASS
11N40MIMO	total	5755	-2.57	≤30.00	PASS
11N40MIMO	Ant1	5795	-5.74	≤30.00	PASS
11N40MIMO	Ant2	5795	-7.59	≤30.00	PASS
11N40MIMO	total	5795	-3.56	≤30.00	PASS
11AC20MIMO	Ant1	5745	-2.02	≤30.00	PASS
11AC20MIMO	Ant2	5745	-2.77	≤30.00	PASS
11AC20MIMO	total	5745	0.63	≤30.00	PASS
11AC20MIMO	Ant1	5785	-3.33	≤30.00	PASS
11AC20MIMO	Ant2	5785	-4.44	≤30.00	PASS
11AC20MIMO	total	5785	-0.84	≤30.00	PASS
11AC20MIMO	Ant1	5825	-4.45	≤30.00	PASS
11AC20MIMO	Ant2	5825	-6.08	≤30.00	PASS
11AC20MIMO	total	5825	-2.18	≤30.00	PASS
11AC40MIMO	Ant1	5755	-6.70	≤30.00	PASS
11AC40MIMO	Ant2	5755	-7.11	≤30.00	PASS
11AC40MIMO	total	5755	-3.89	≤30.00	PASS
11AC40MIMO	Ant1	5795	-4.99	≤30.00	PASS
11AC40MIMO	Ant2	5795	-6.37	≤30.00	PASS
11AC40MIMO	total	5795	-2.62	≤30.00	PASS
11AC80MIMO	Ant1	5775	-6.60	≤30.00	PASS
11AC80MIMO	Ant2	5775	-8.63	≤30.00	PASS
11AC80MIMO	total	5775	-4.49	≤30.00	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

