

RF Test Data for RLAN(5. 8G) (Conducted Measurement)

Product Name: Wanbo Projector

Trade Mark: Wanbo

Test Model: WPC14

FCC ID: 2A7PI-WPC14

Environmental Conditions

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

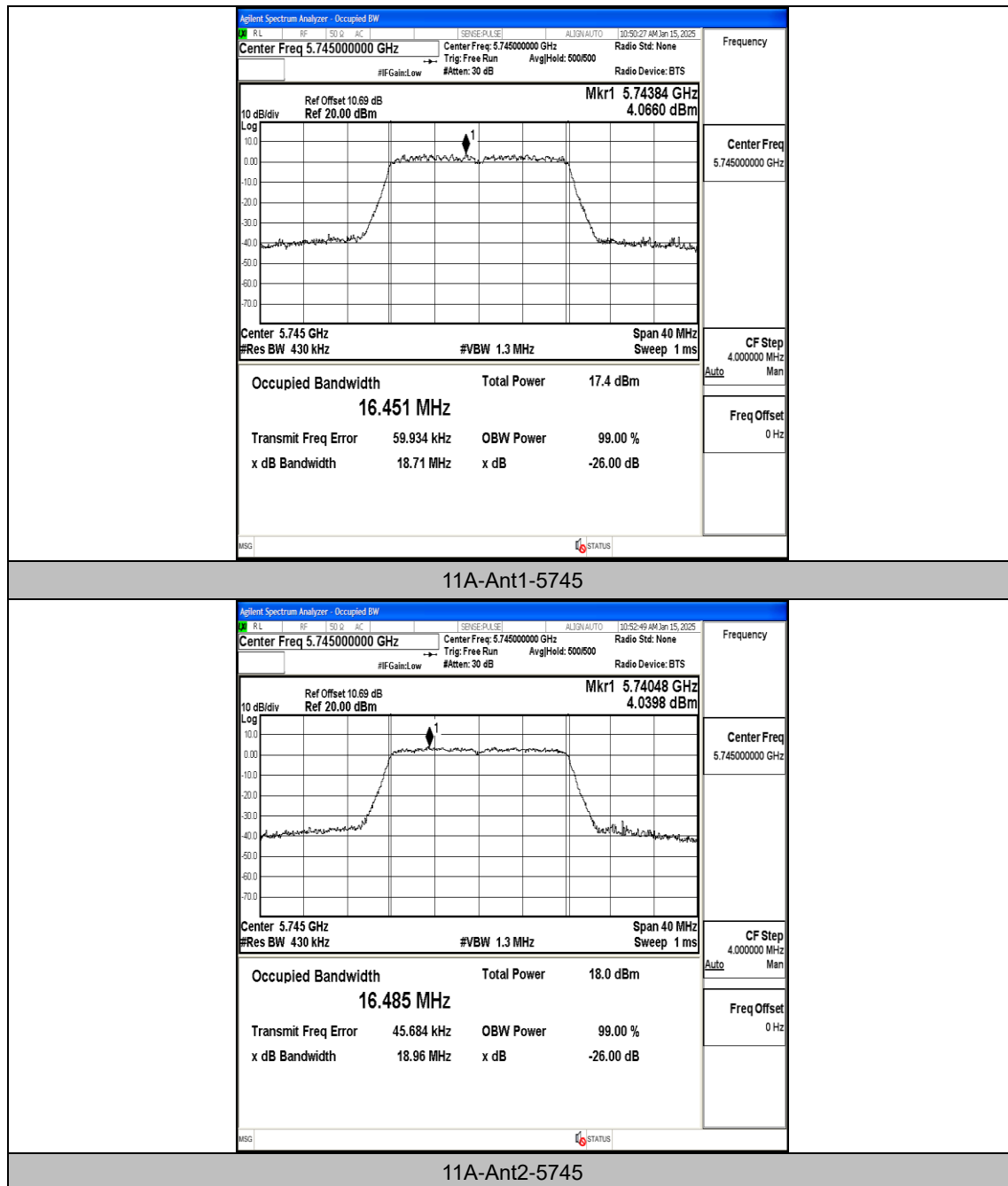
Appendix A2: Occupied channel bandwidth

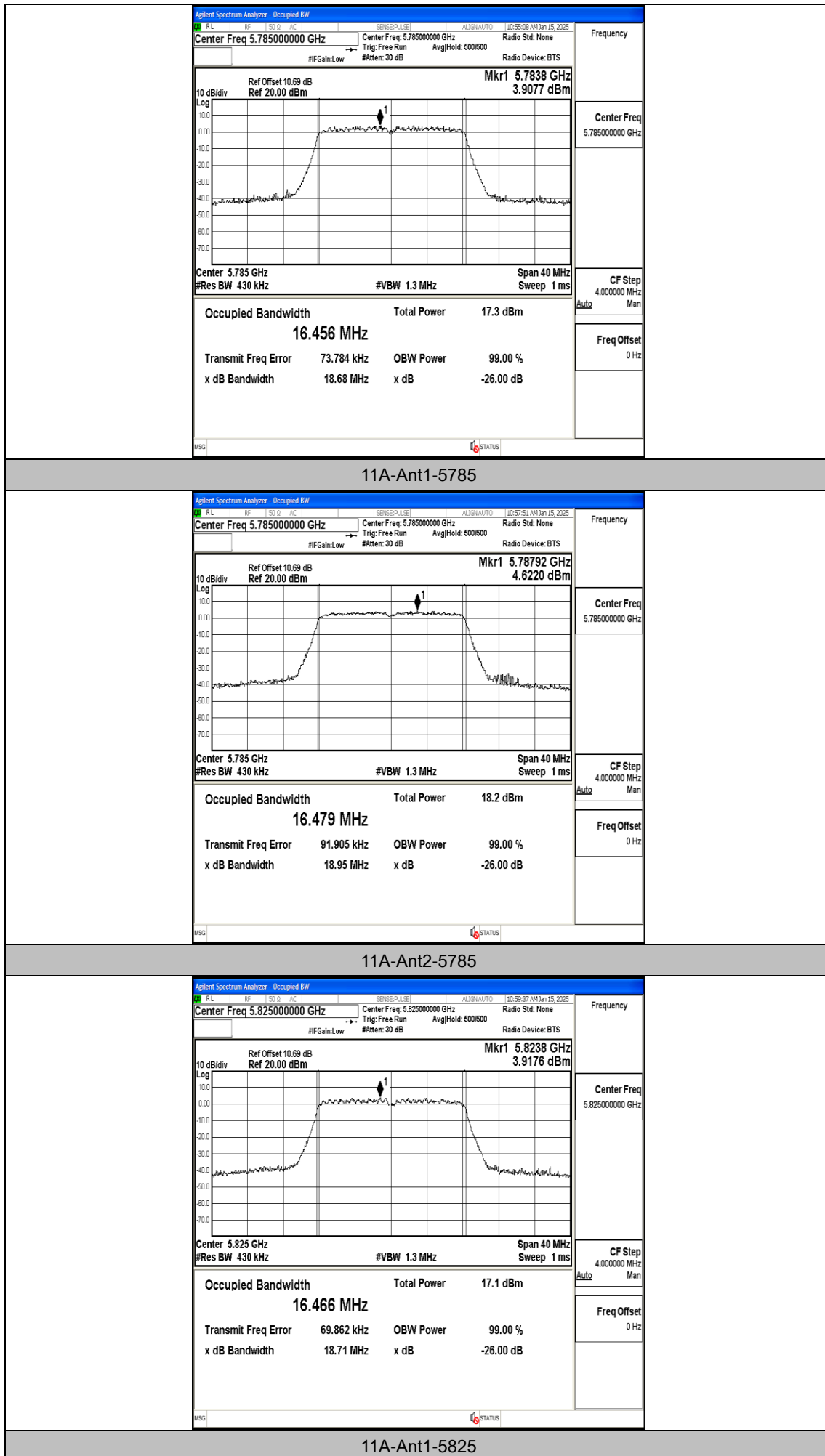
Test Result

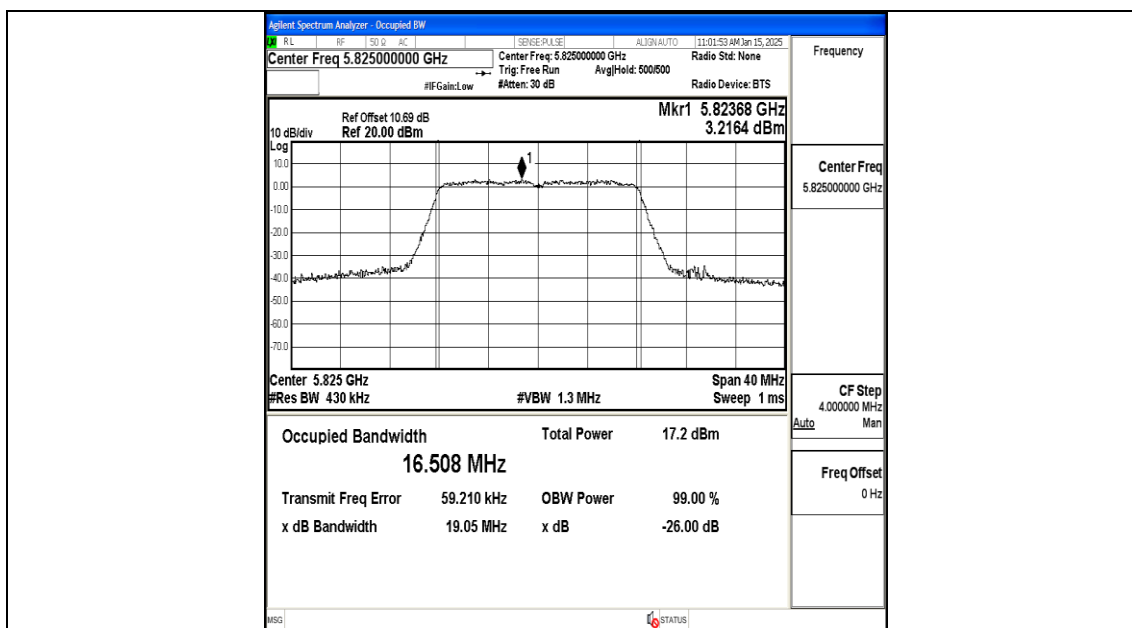
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	16.451	5736.8344	5753.2854	---	---
11A	Ant2	5745	16.485	5736.8032	5753.2882	---	---
11A	Ant1	5785	16.456	5776.8458	5793.3018	---	---
11A	Ant2	5785	16.479	5776.8524	5793.3314	---	---
11A	Ant1	5825	16.466	5816.8369	5833.3029	---	---
11A	Ant2	5825	16.508	5816.8052	5833.3132	---	---
11N20MIMO	Ant1	5745	17.662	5736.2058	5753.8678	---	---
11N20MIMO	Ant2	5745	17.713	5736.1686	5753.8816	---	---
11N20MIMO	Ant1	5785	17.644	5776.2031	5793.8471	---	---
11N20MIMO	Ant2	5785	17.780	5776.1277	5793.9077	---	---
11N20MIMO	Ant1	5825	17.735	5816.1884	5833.9234	---	---
11N20MIMO	Ant2	5825	17.731	5816.1119	5833.8429	---	---
11N40MIMO	Ant1	5755	36.482	5736.9192	5773.4012	---	---
11N40MIMO	Ant2	5755	36.416	5736.8242	5773.2402	---	---
11N40MIMO	Ant1	5795	36.561	5776.8017	5813.3627	---	---
11N40MIMO	Ant2	5795	36.327	5776.9523	5813.2793	---	---
11AC20MIMO	Ant1	5745	17.690	5736.1784	5753.8684	---	---
11AC20MIMO	Ant2	5745	17.689	5736.1815	5753.8705	---	---
11AC20MIMO	Ant1	5785	17.854	5776.0884	5793.9424	---	---
11AC20MIMO	Ant2	5785	17.845	5776.0864	5793.9314	---	---
11AC20MIMO	Ant1	5825	17.715	5816.1601	5833.8751	---	---
11AC20MIMO	Ant2	5825	17.701	5816.1867	5833.8877	---	---
11AC40MIMO	Ant1	5755	36.289	5736.8919	5773.1809	---	---
11AC40MIMO	Ant2	5755	36.281	5736.9381	5773.2191	---	---
11AC40MIMO	Ant1	5795	36.126	5777.0083	5813.1343	---	---

11AC40MIMO	Ant2	5795	36.154	5776.9618	5813.1158	---	---
11AC80MIMO	Ant1	5775	76.096	5736.9484	5813.0444	---	---
11AC80MIMO	Ant2	5775	75.796	5737.1874	5812.9834	---	---

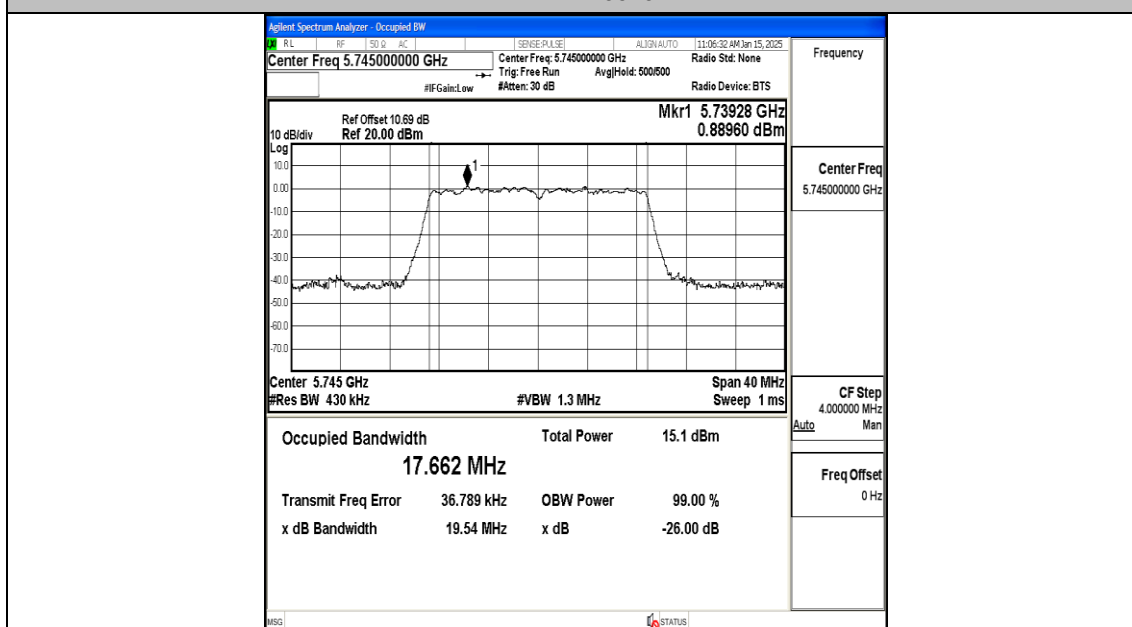
Test Graphs



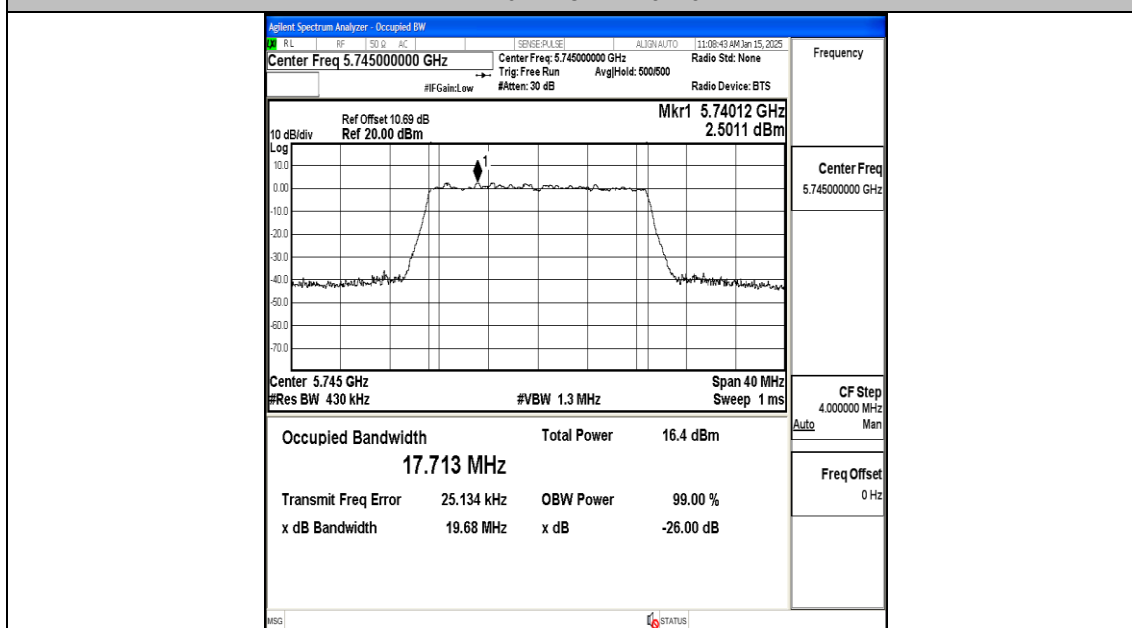




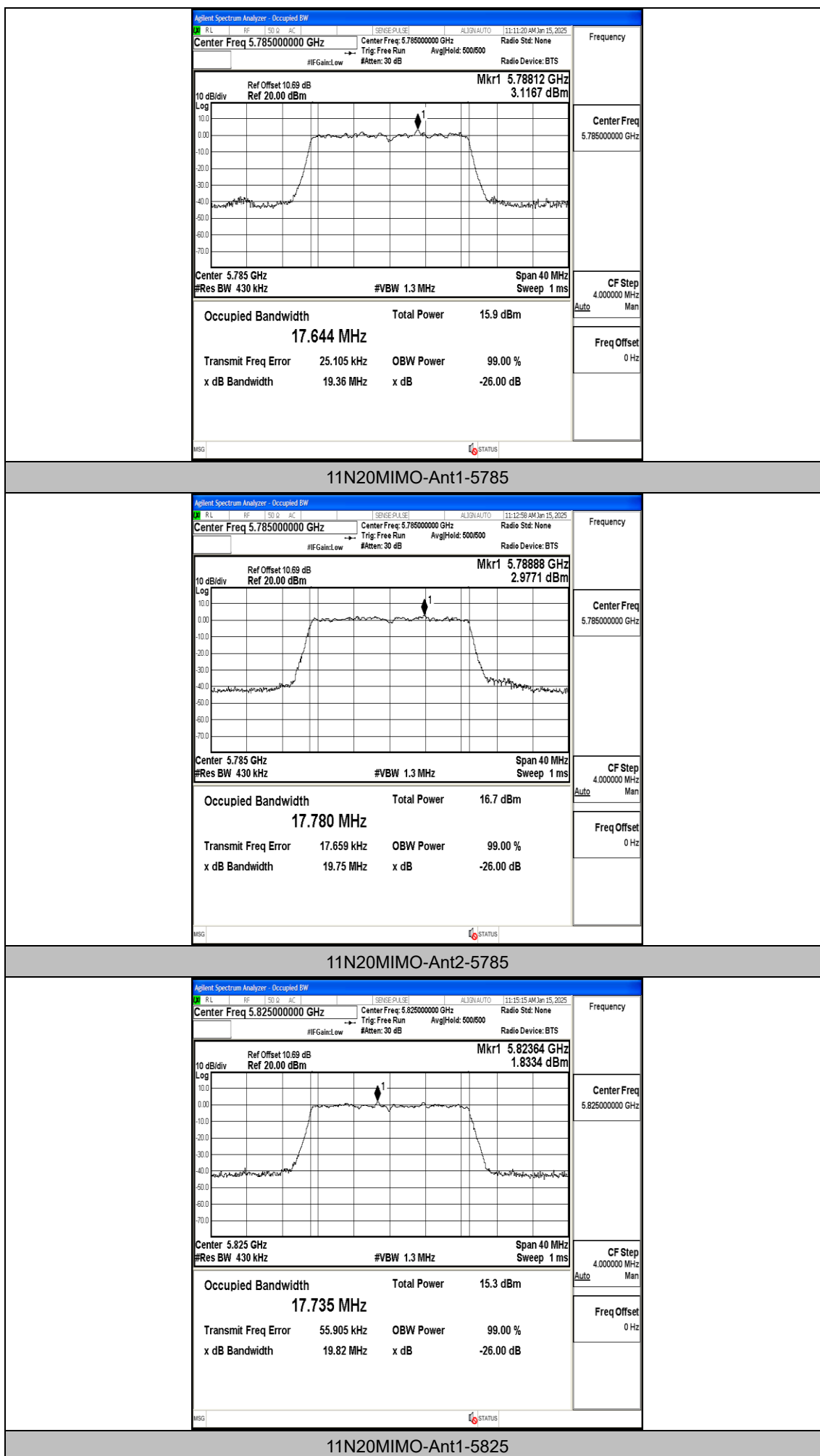
11A-Ant2-5825

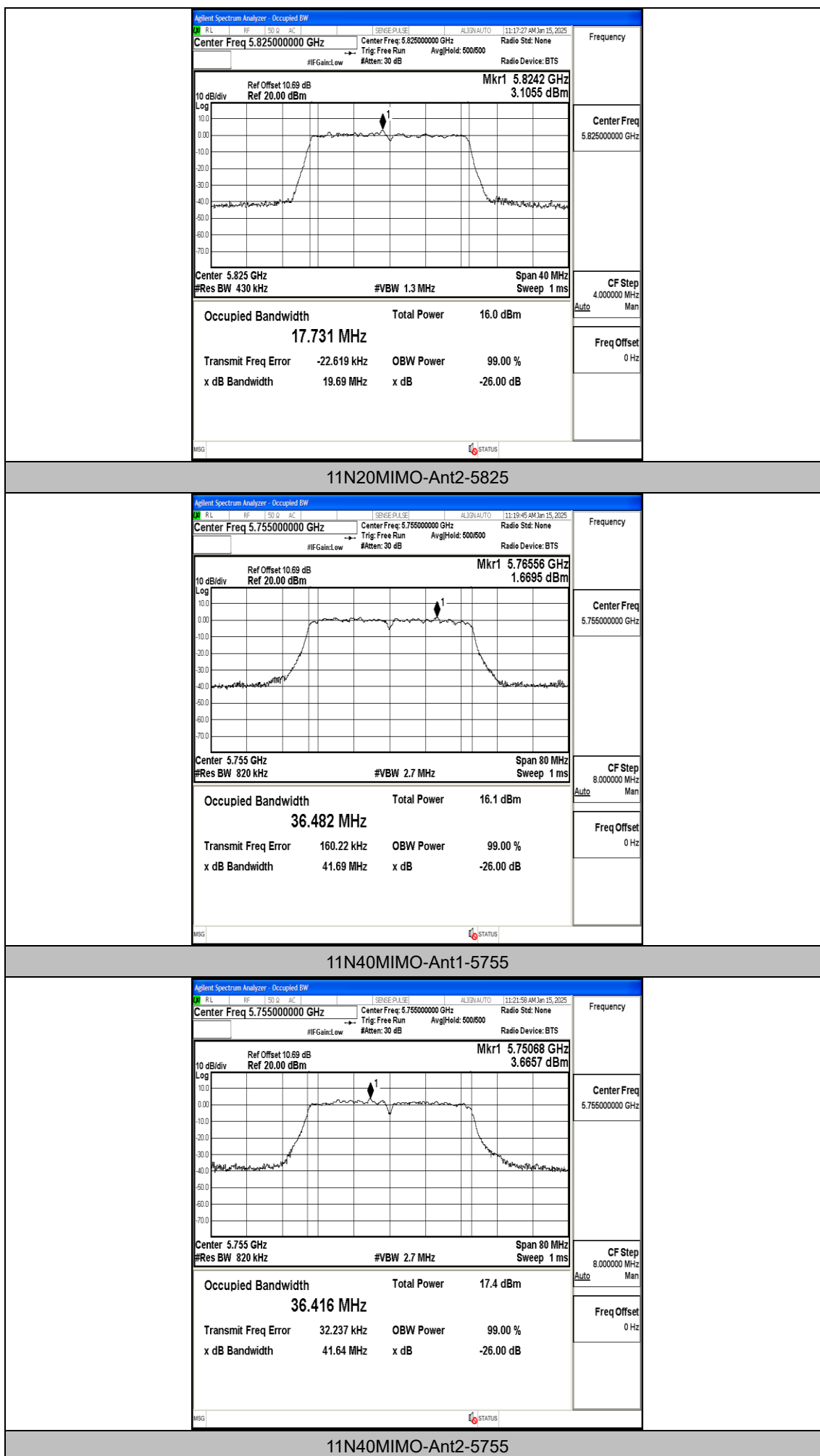


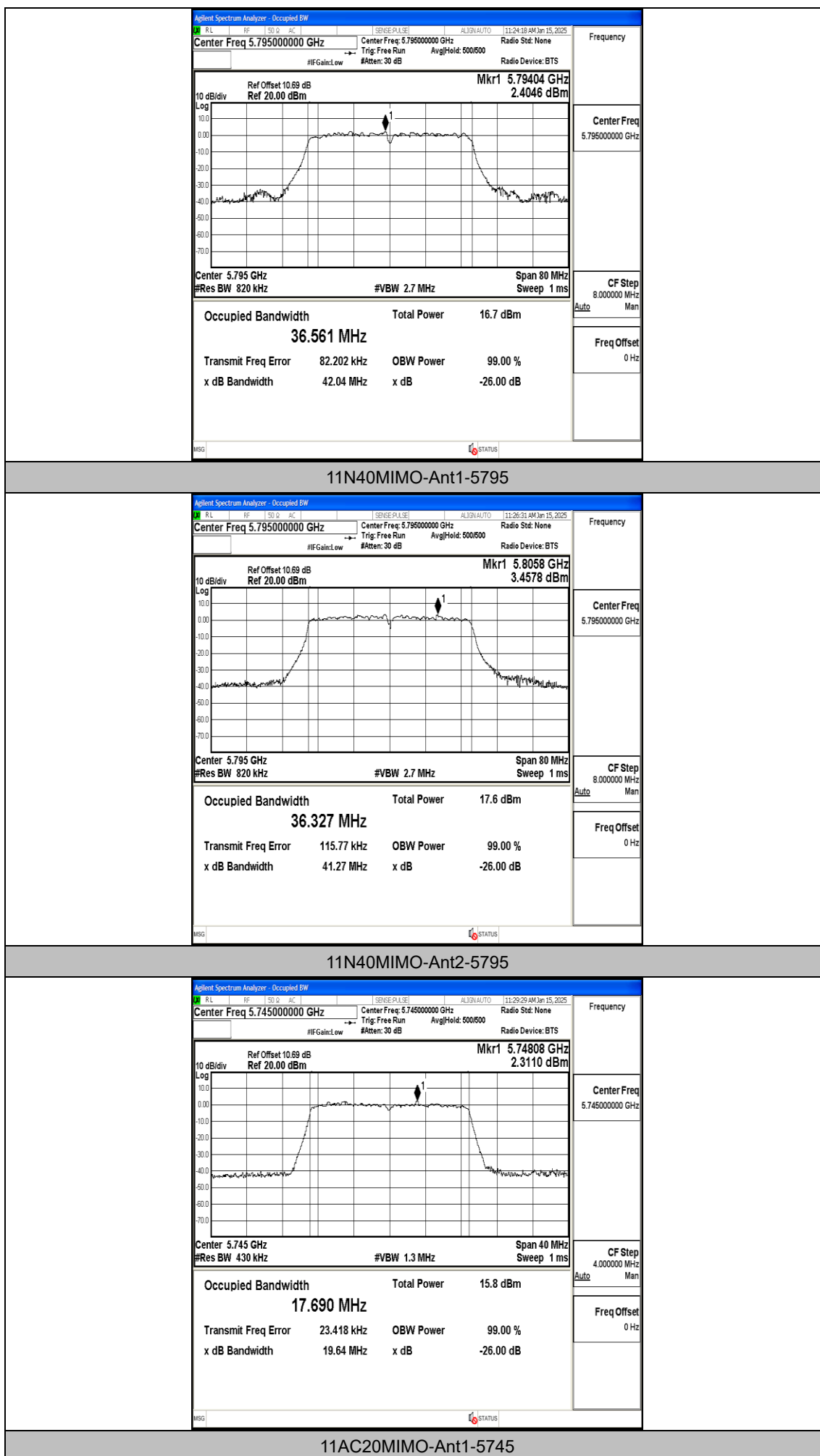
11N20MIMO-Ant1-5745

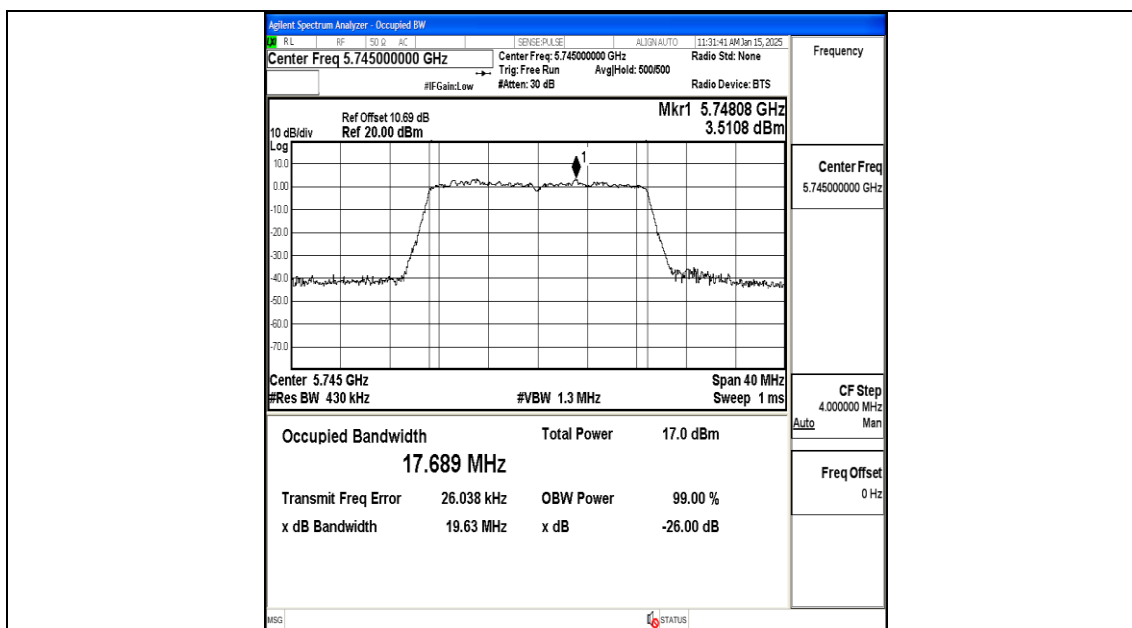


11N20MIMO-Ant2-5745

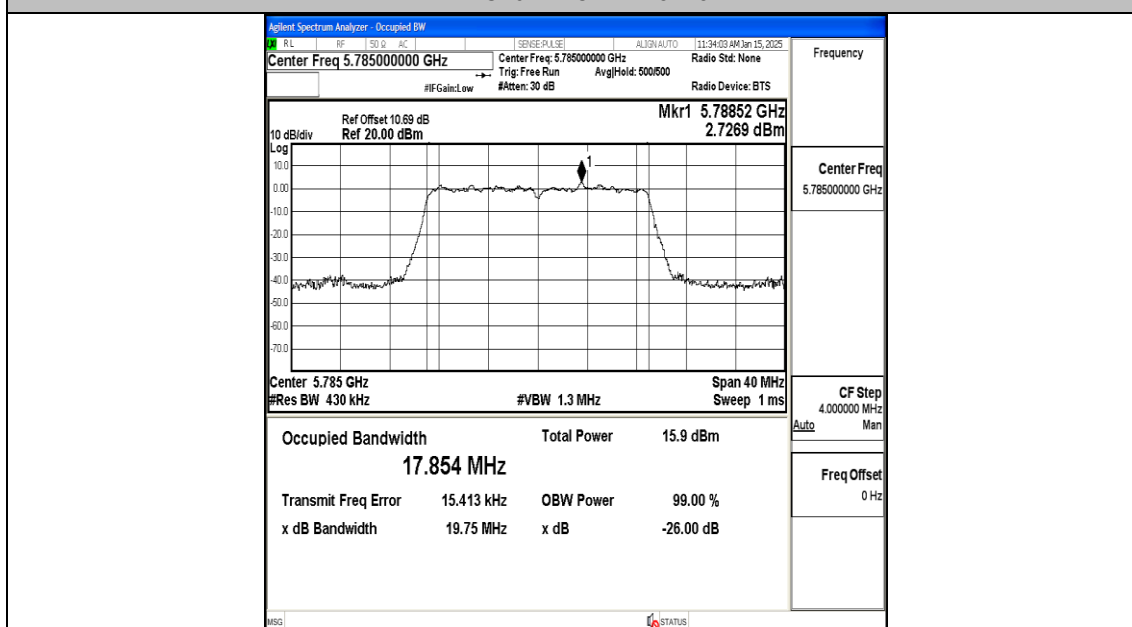




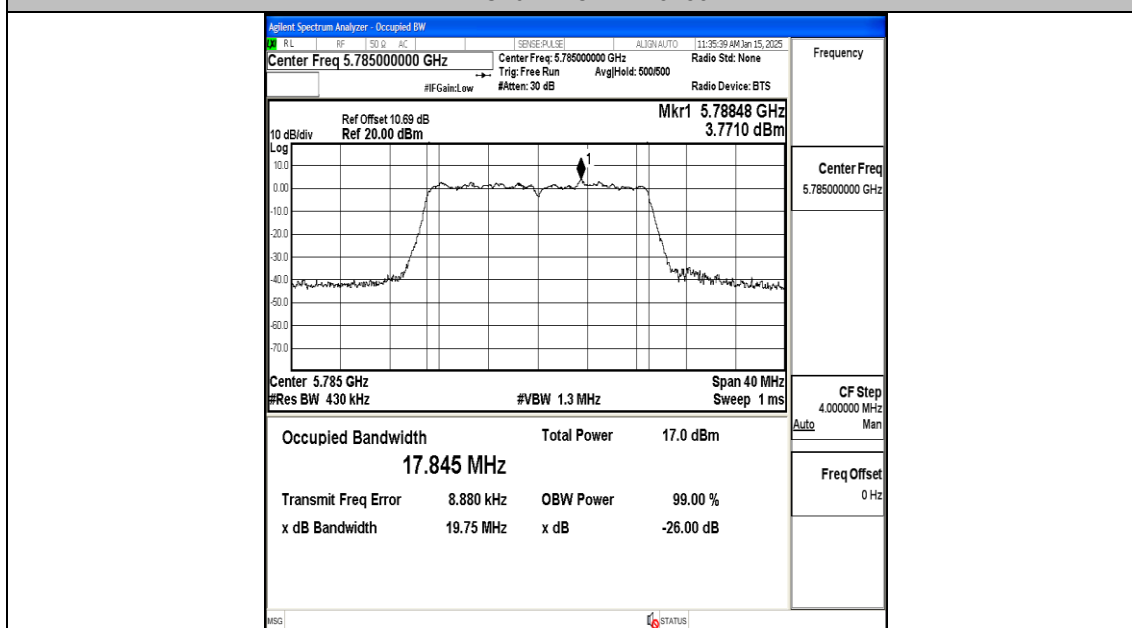




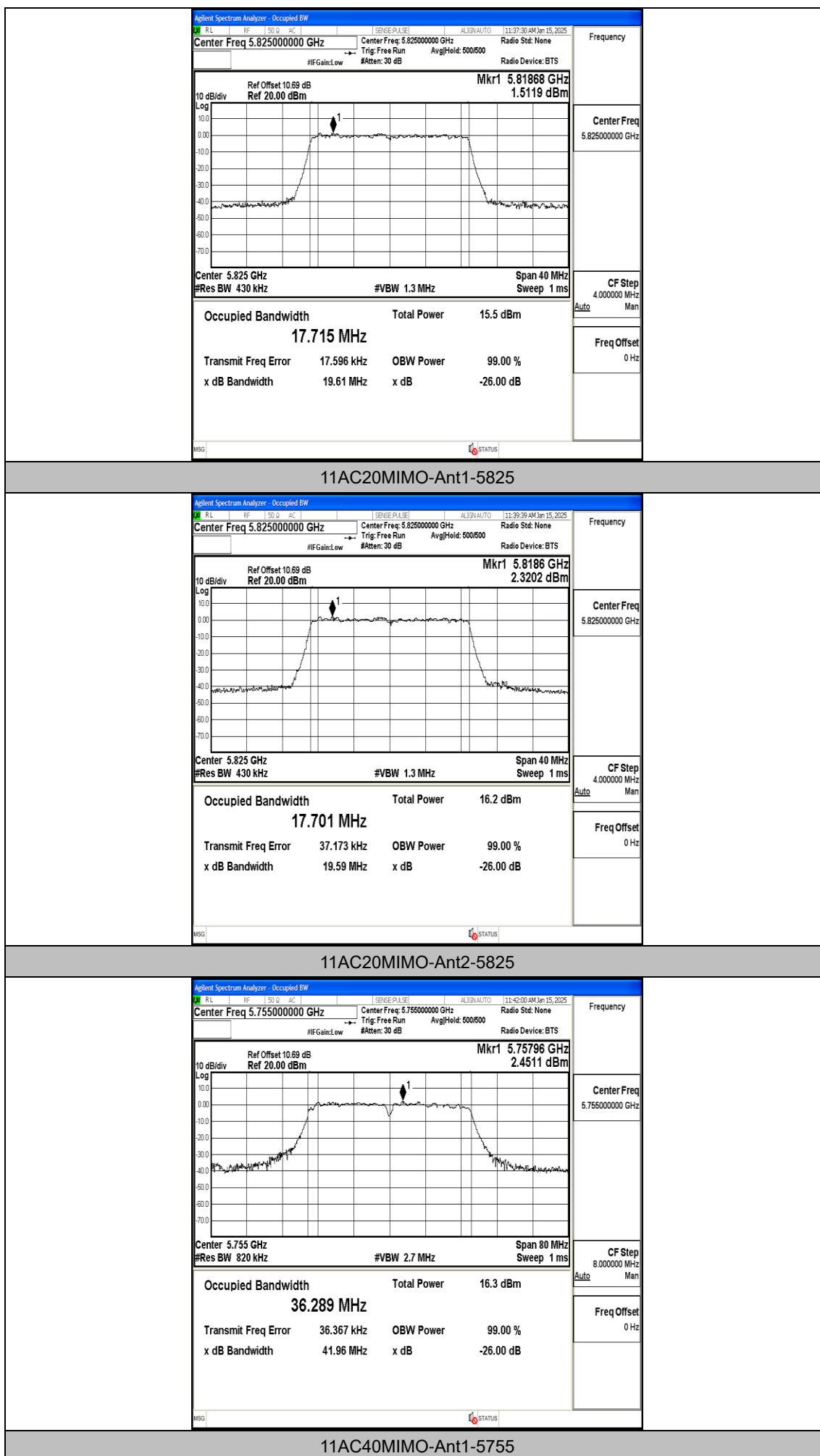
11AC20MIMO-Ant2-5745

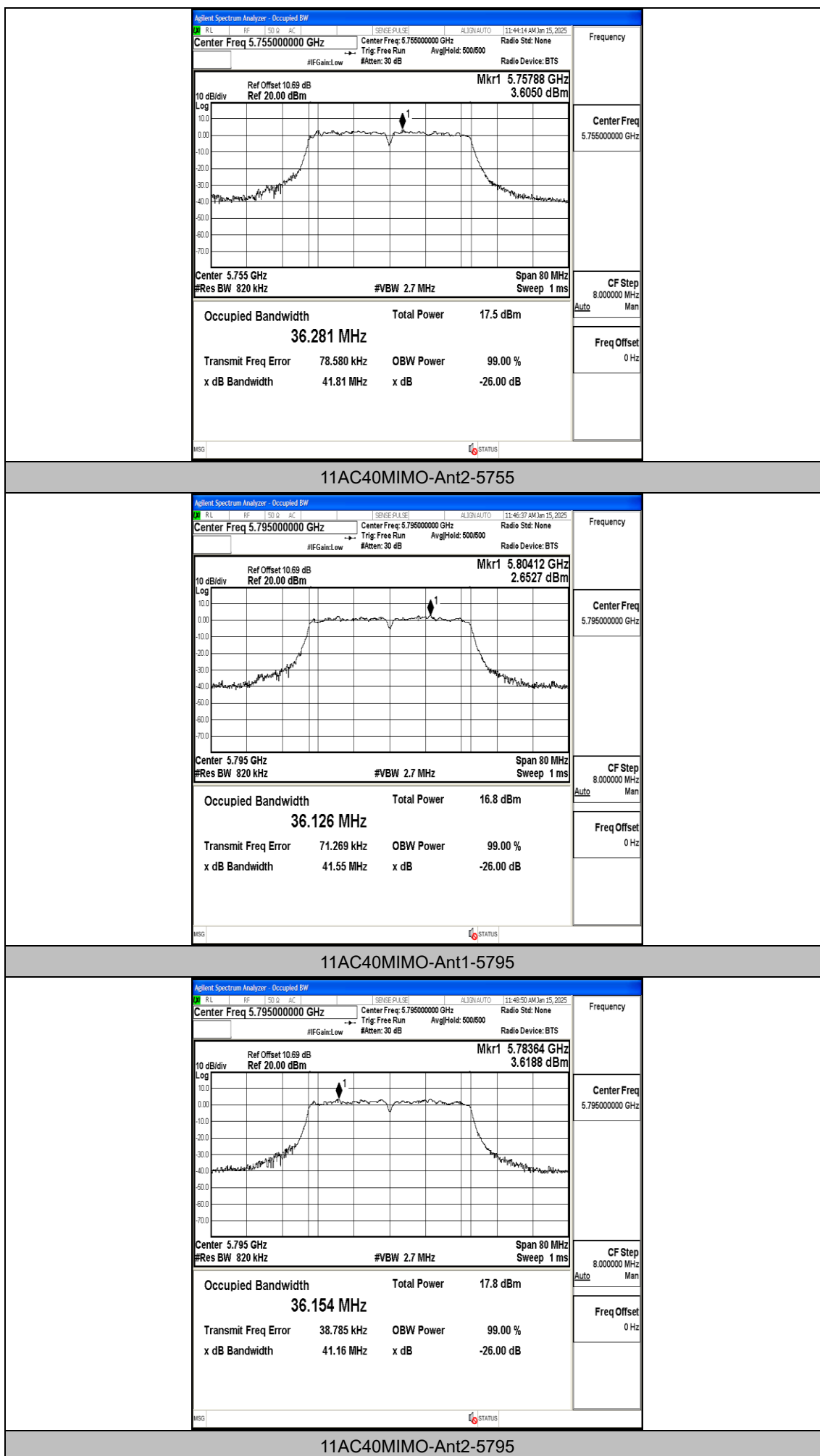


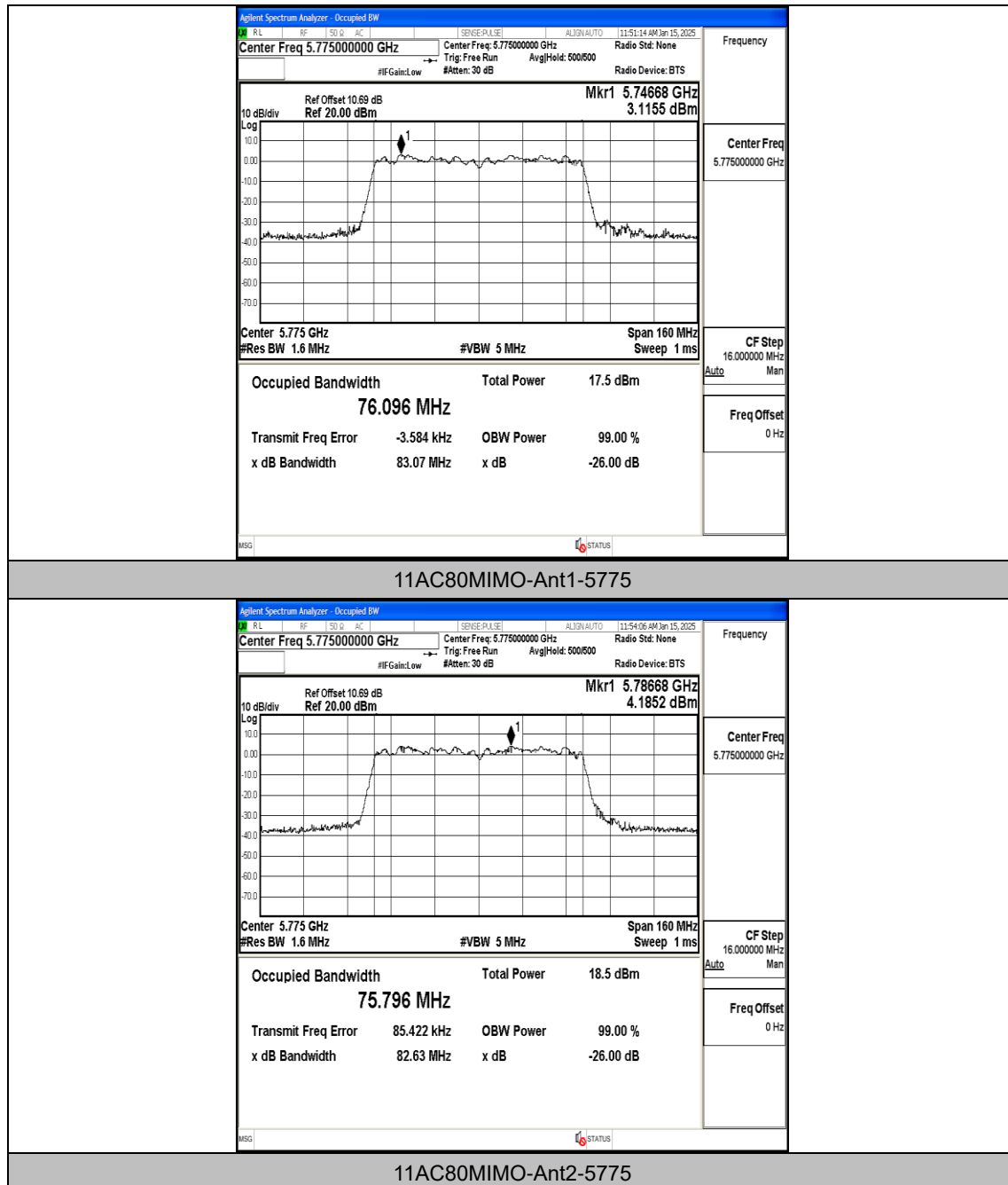
11AC20MIMO-Ant1-5785



11AC20MIMO-Ant2-5785





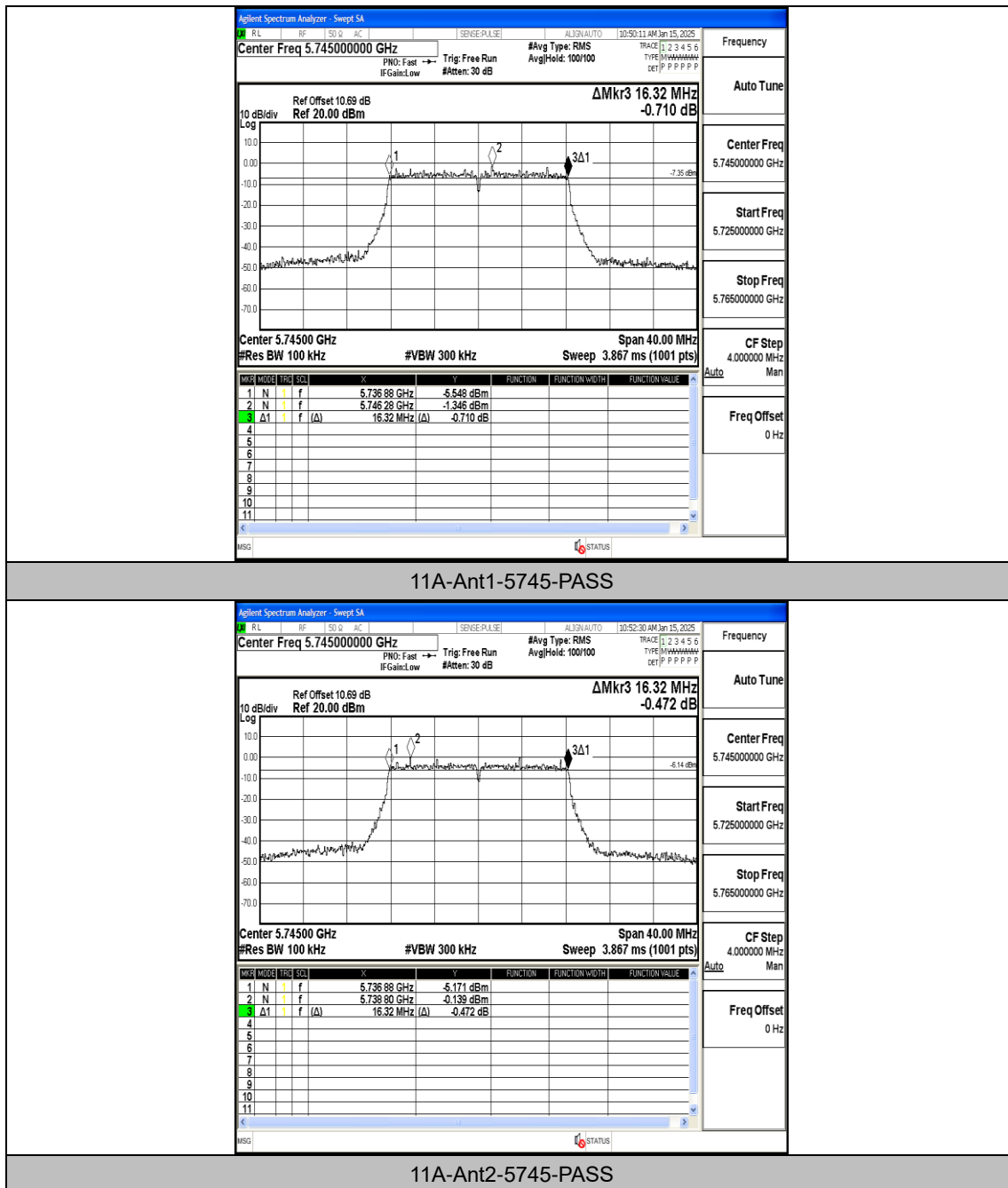


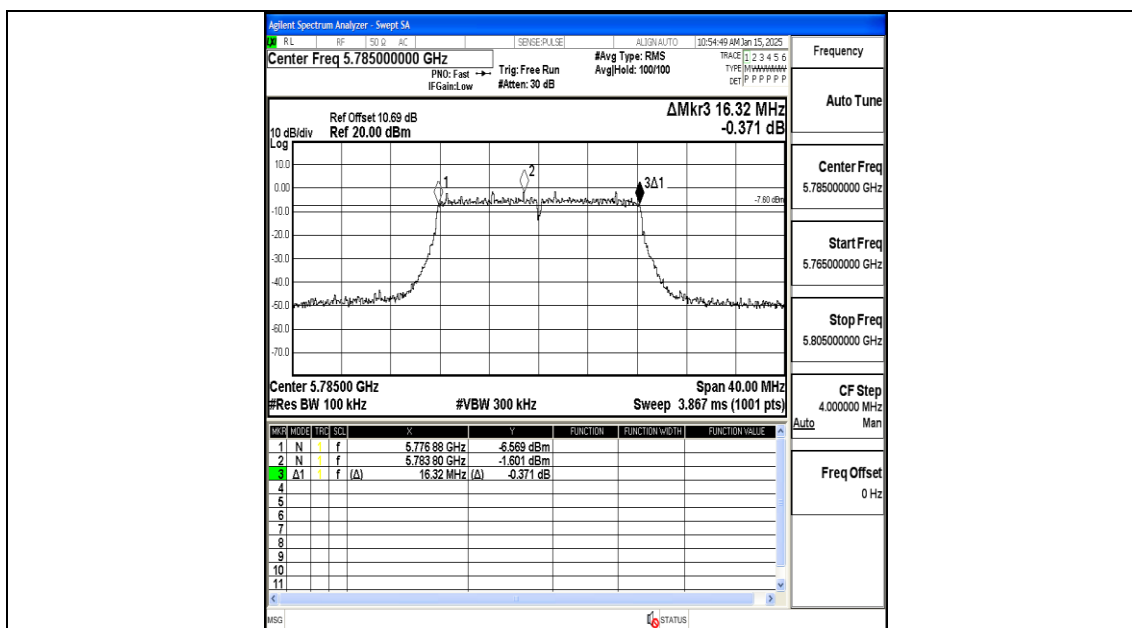
Appendix A: Min emission bandwidth

Test Result

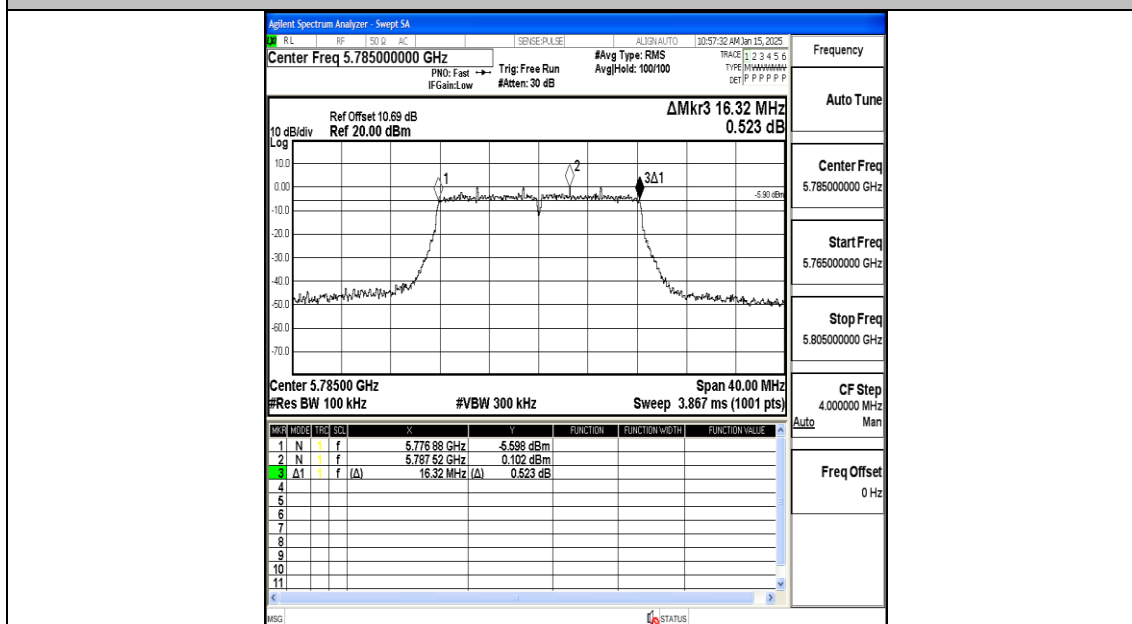
Test Mode	Antenna	Frequency [MHz]	6db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	16.320	5736.880	5753.200	0.5	PASS
11A	Ant2	5745	16.320	5736.880	5753.200	0.5	PASS
11A	Ant1	5785	16.320	5776.880	5793.200	0.5	PASS
11A	Ant2	5785	16.320	5776.880	5793.200	0.5	PASS
11A	Ant1	5825	16.320	5816.880	5833.200	0.5	PASS
11A	Ant2	5825	16.320	5816.880	5833.200	0.5	PASS
11N20MIMO	Ant1	5745	17.200	5736.240	5753.440	0.5	PASS
11N20MIMO	Ant2	5745	17.640	5736.200	5753.840	0.5	PASS
11N20MIMO	Ant1	5785	17.440	5776.320	5793.760	0.5	PASS
11N20MIMO	Ant2	5785	17.360	5776.440	5793.800	0.5	PASS
11N20MIMO	Ant1	5825	17.560	5816.200	5833.760	0.5	PASS
11N20MIMO	Ant2	5825	17.560	5816.200	5833.760	0.5	PASS
11N40MIMO	Ant1	5755	35.200	5737.400	5772.600	0.5	PASS
11N40MIMO	Ant2	5755	35.360	5737.400	5772.760	0.5	PASS
11N40MIMO	Ant1	5795	35.440	5777.160	5812.600	0.5	PASS
11N40MIMO	Ant2	5795	35.200	5777.400	5812.600	0.5	PASS
11AC20MIMO	Ant1	5745	17.600	5736.200	5753.800	0.5	PASS
11AC20MIMO	Ant2	5745	17.600	5736.200	5753.800	0.5	PASS
11AC20MIMO	Ant1	5785	17.640	5776.160	5793.800	0.5	PASS
11AC20MIMO	Ant2	5785	17.640	5776.160	5793.800	0.5	PASS
11AC20MIMO	Ant1	5825	17.600	5816.200	5833.800	0.5	PASS
11AC20MIMO	Ant2	5825	17.600	5816.200	5833.800	0.5	PASS
11AC40MIMO	Ant1	5755	35.120	5737.400	5772.520	0.5	PASS
11AC40MIMO	Ant2	5755	35.200	5737.400	5772.600	0.5	PASS
11AC40MIMO	Ant1	5795	35.200	5777.400	5812.600	0.5	PASS
11AC40MIMO	Ant2	5795	35.120	5777.400	5812.520	0.5	PASS
11AC80MIMO	Ant1	5775	75.360	5737.240	5812.600	0.5	PASS
11AC80MIMO	Ant2	5775	75.200	5737.400	5812.600	0.5	PASS

Test Graphs

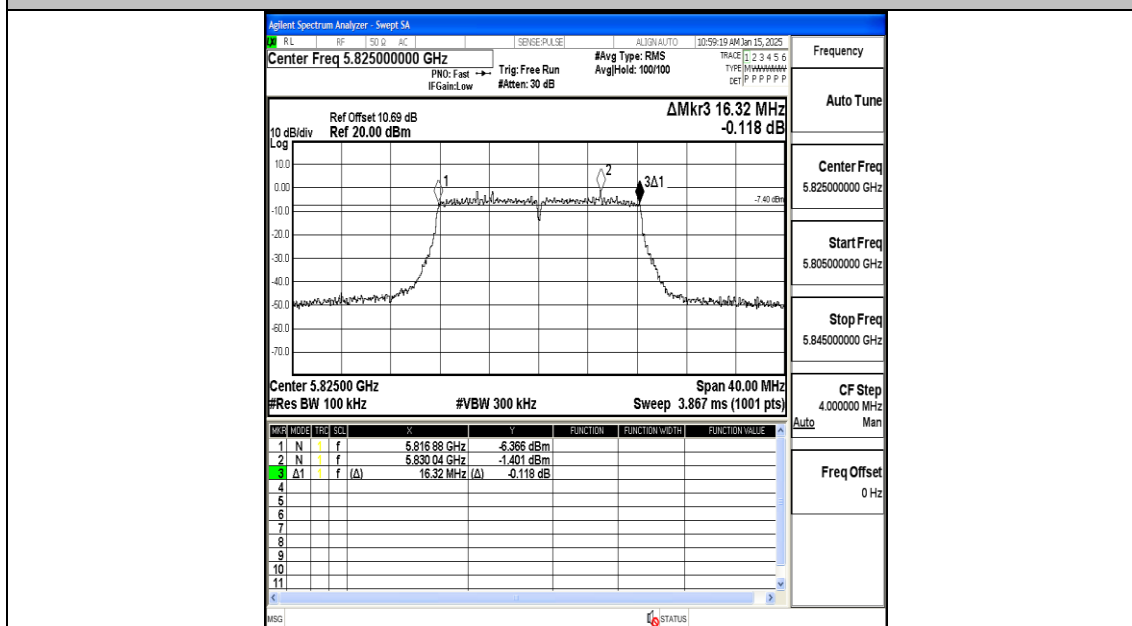




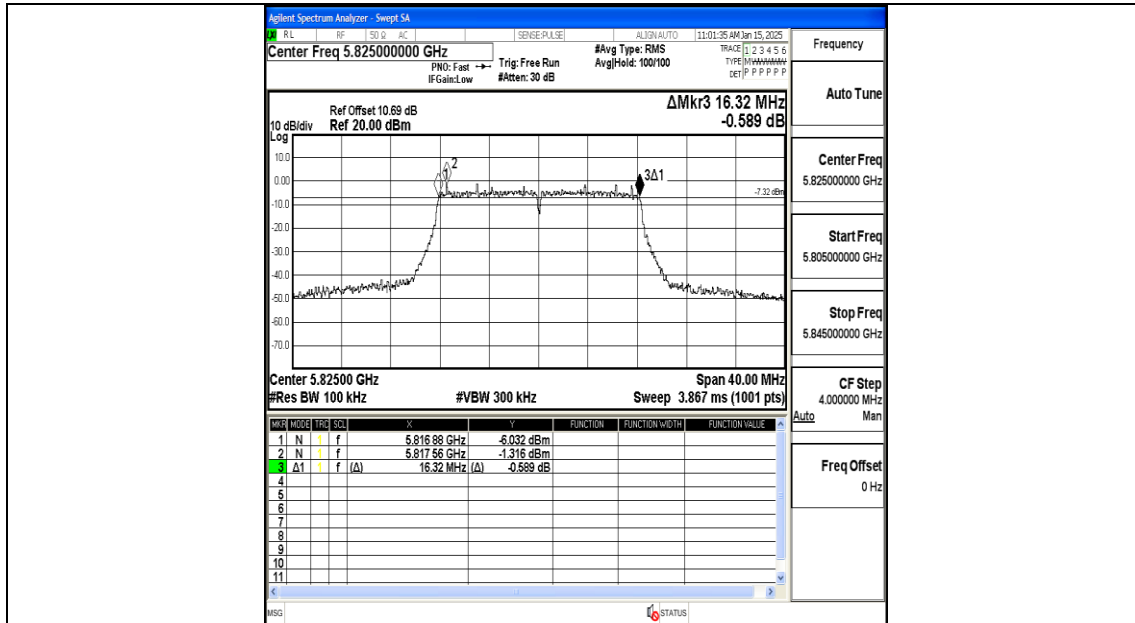
11A-Ant1-5785-PASS



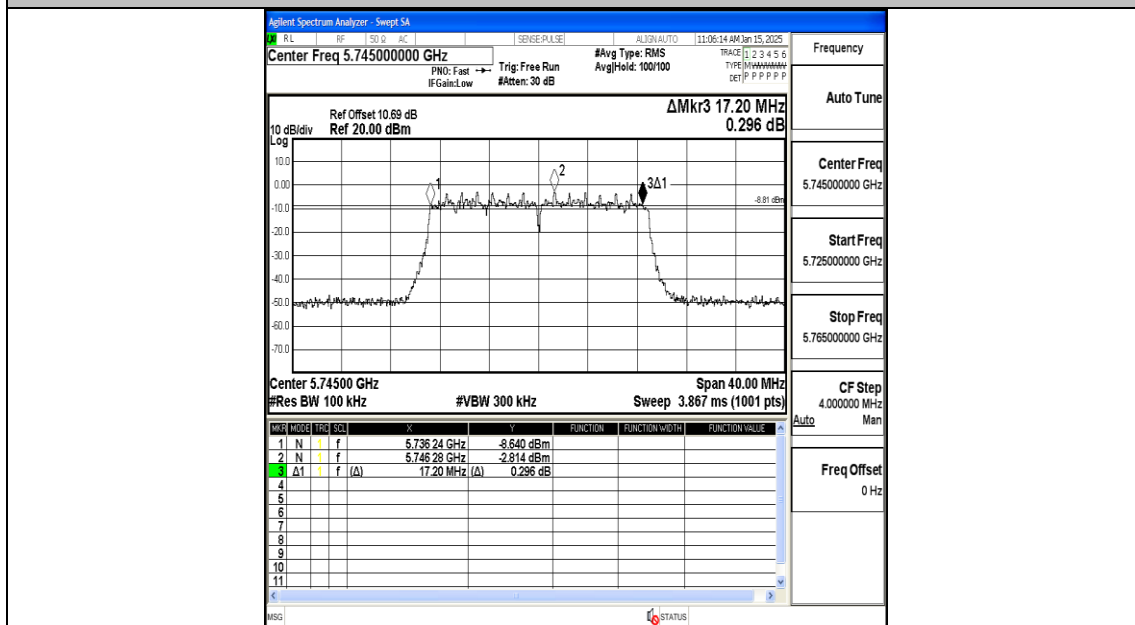
11A-Ant2-5785-PASS



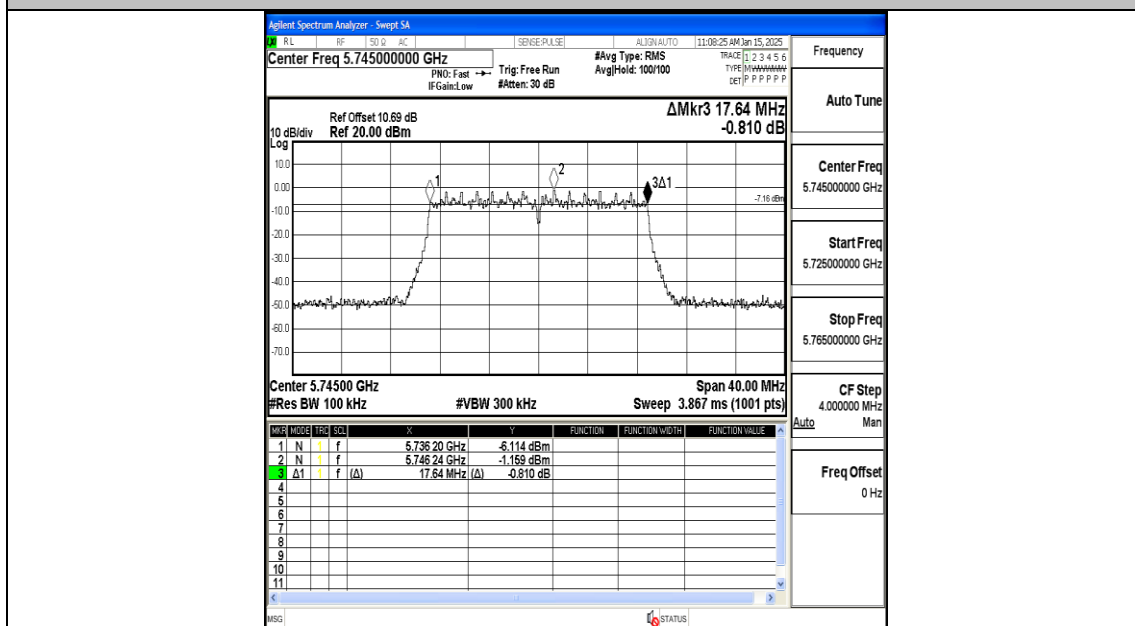
11A-Ant1-5825-PASS



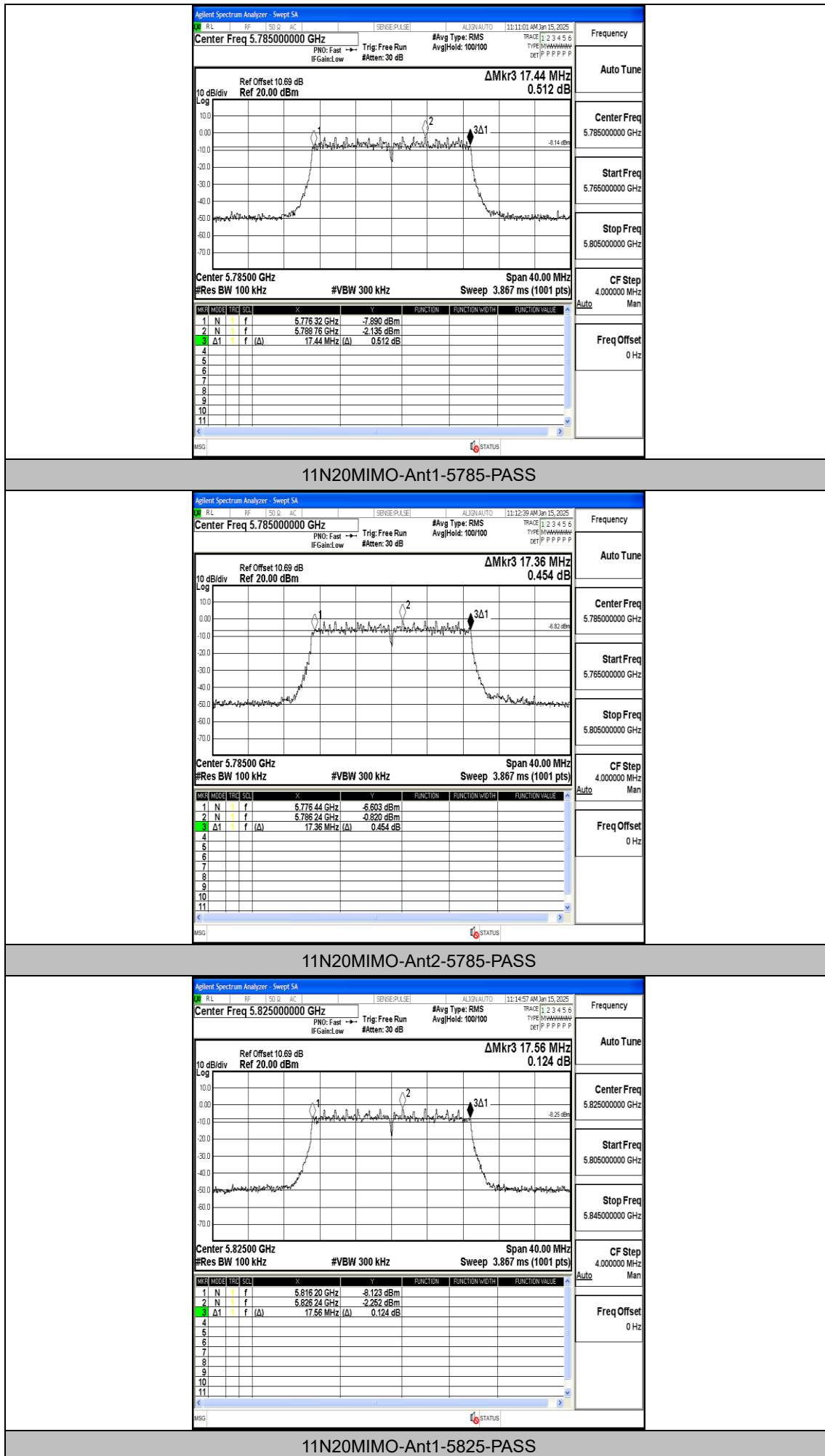
11A-Ant2-5825-PASS

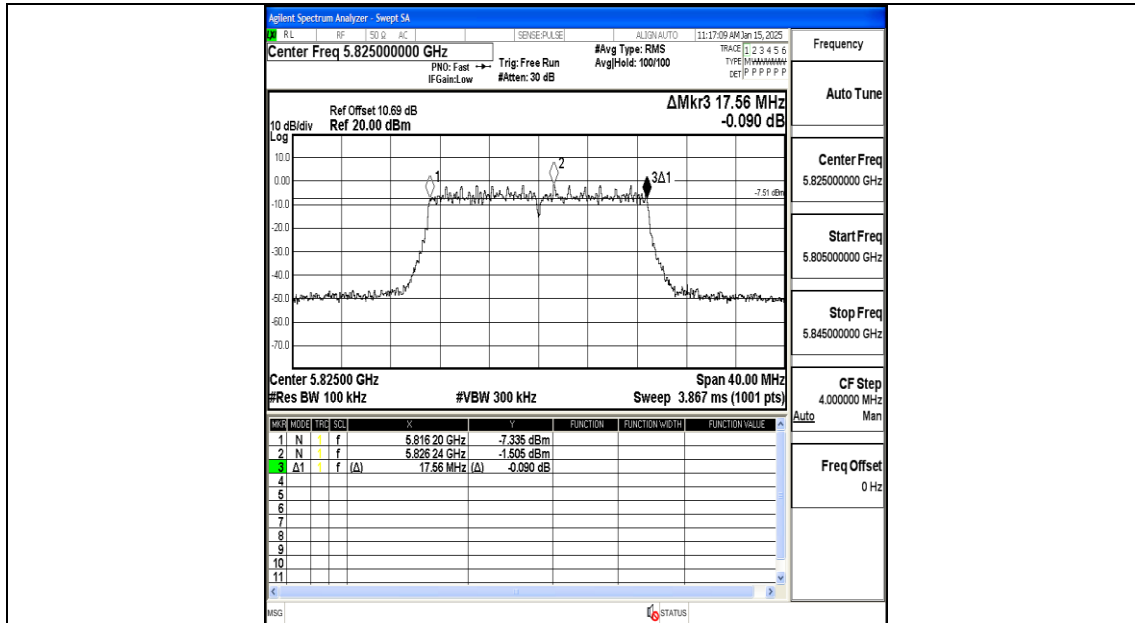


11N20MIMO-Ant1-5745-PASS

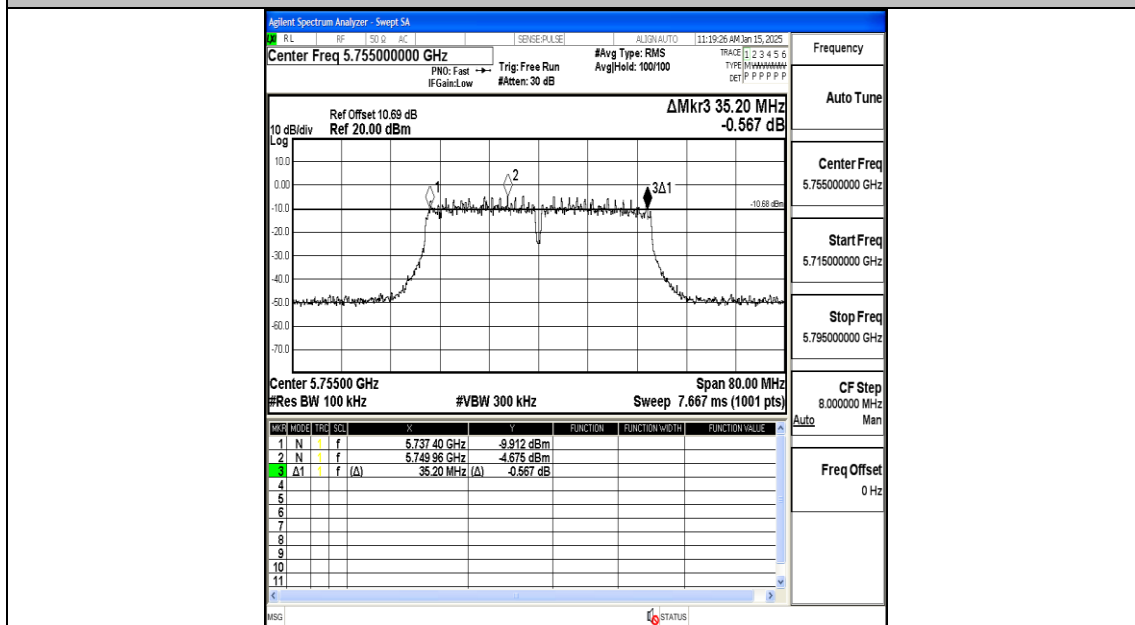


11N20MIMO-Ant2-5745-PASS

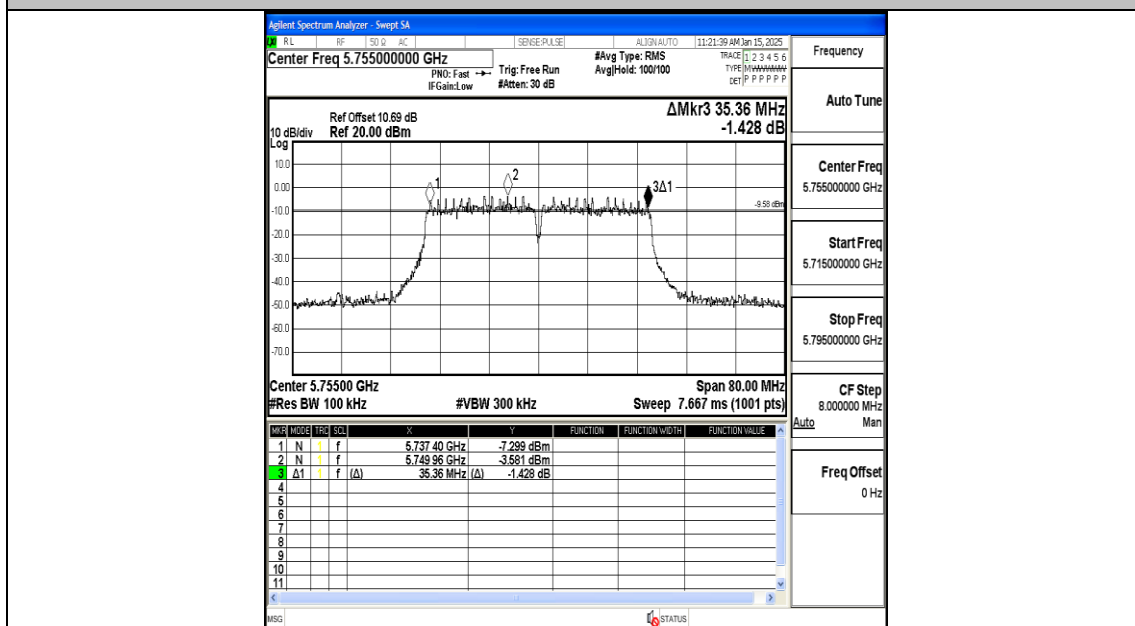




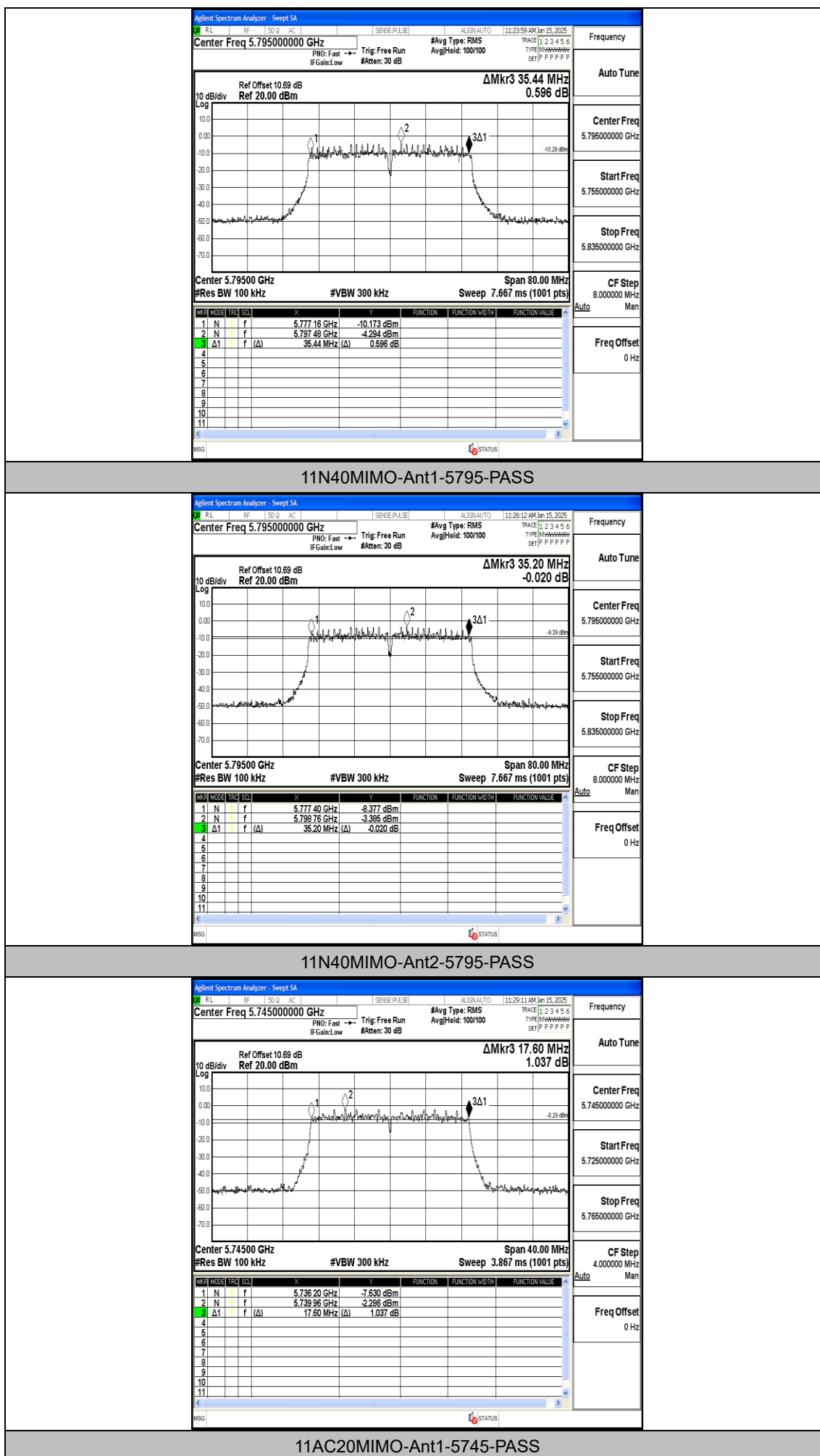
11N20MIMO-Ant2-5825-PASS

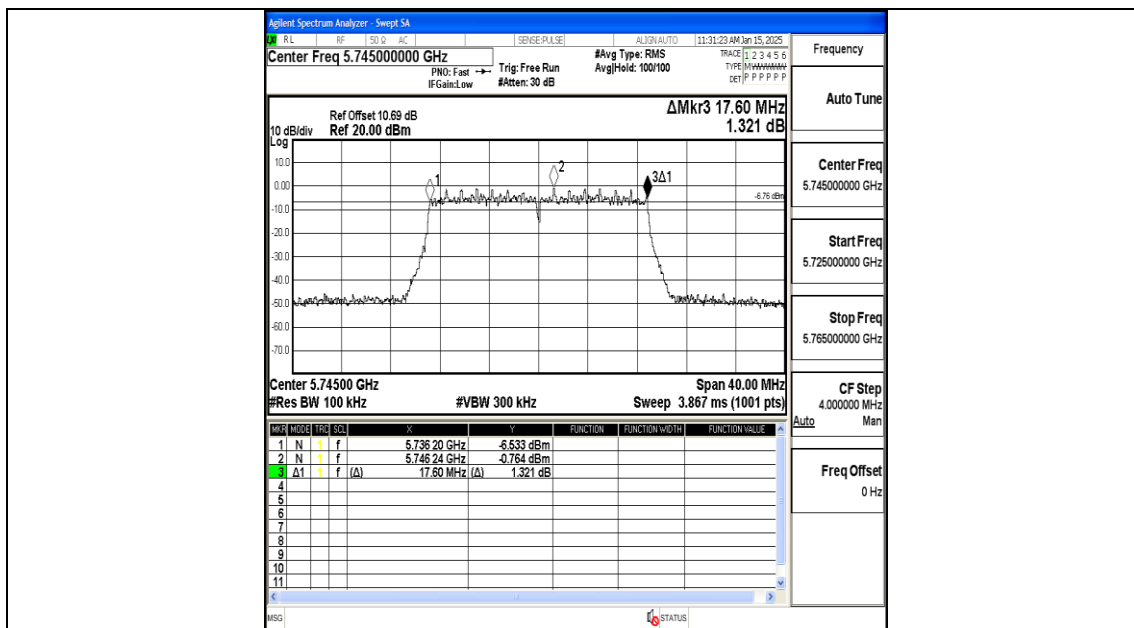


11N40MIMO-Ant1-5755-PASS

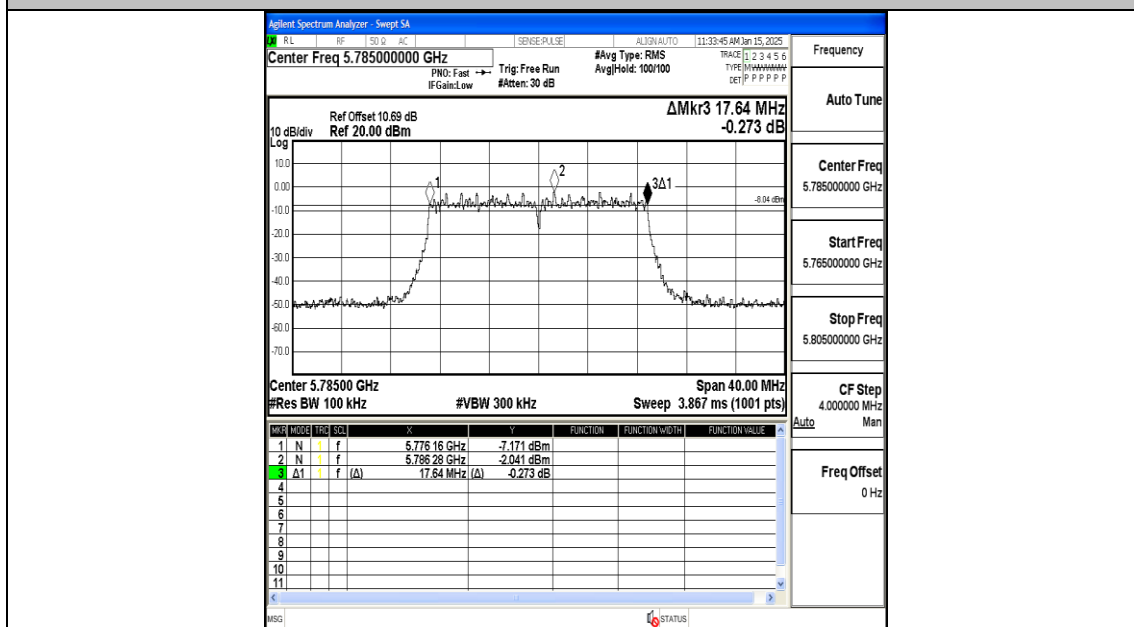


11N40MIMO-Ant2-5755-PASS

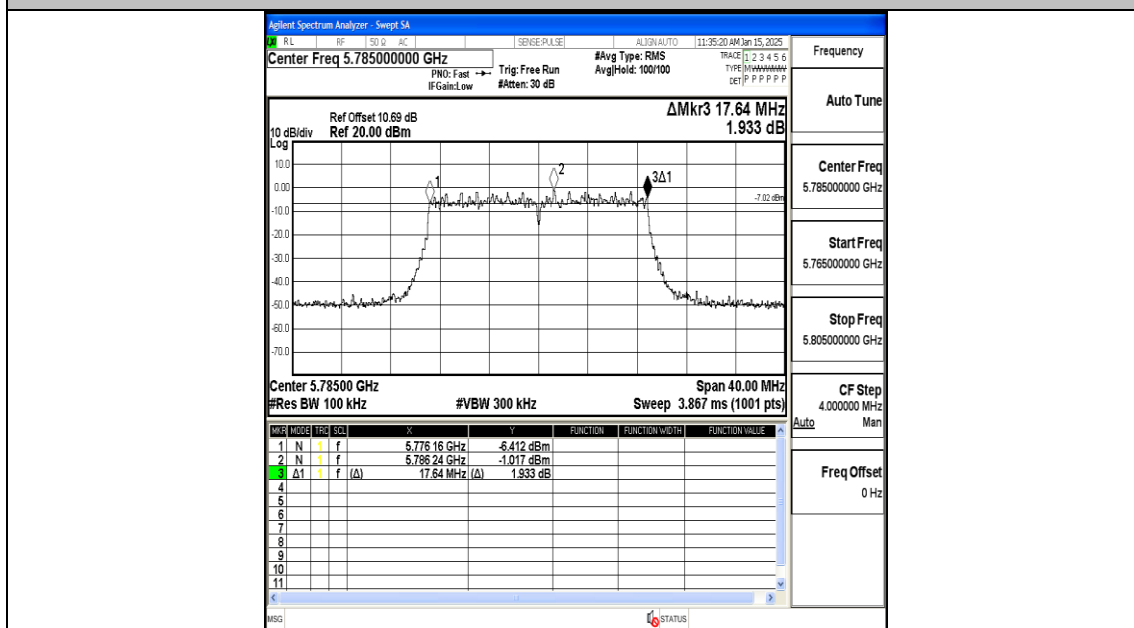




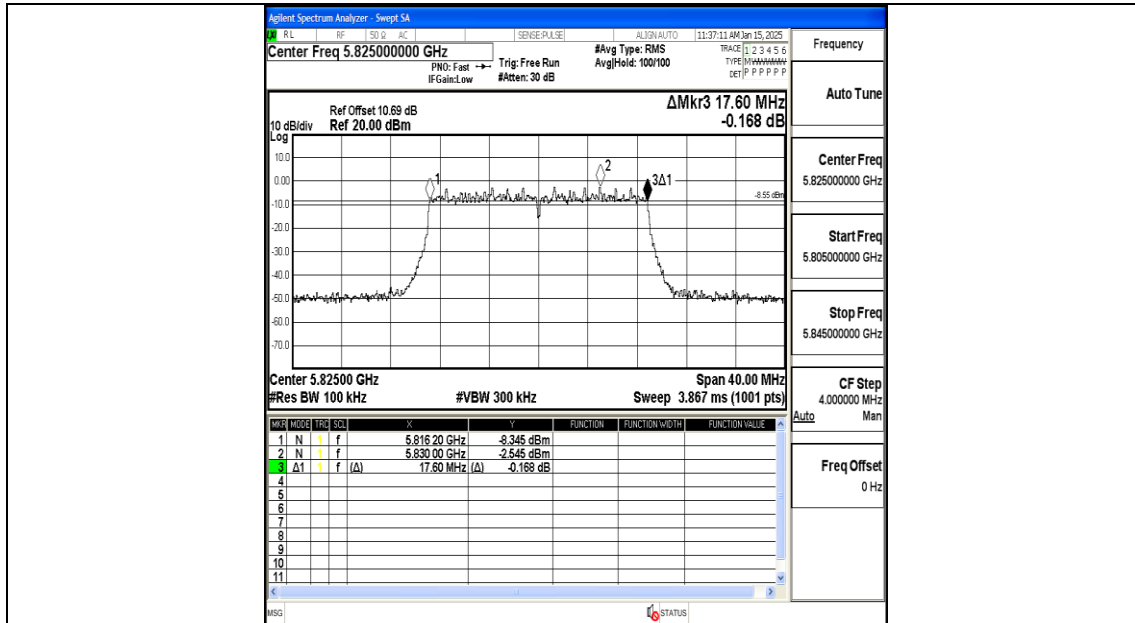
11AC20MIMO-Ant2-5745-PASS



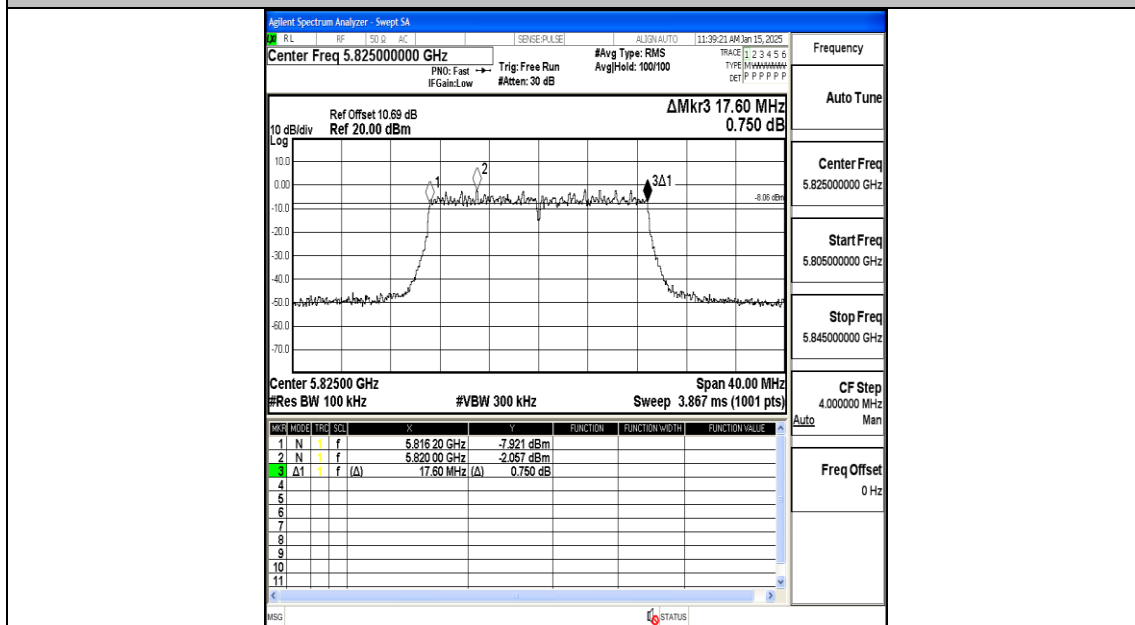
11AC20MIMO-Ant1-5785-PASS



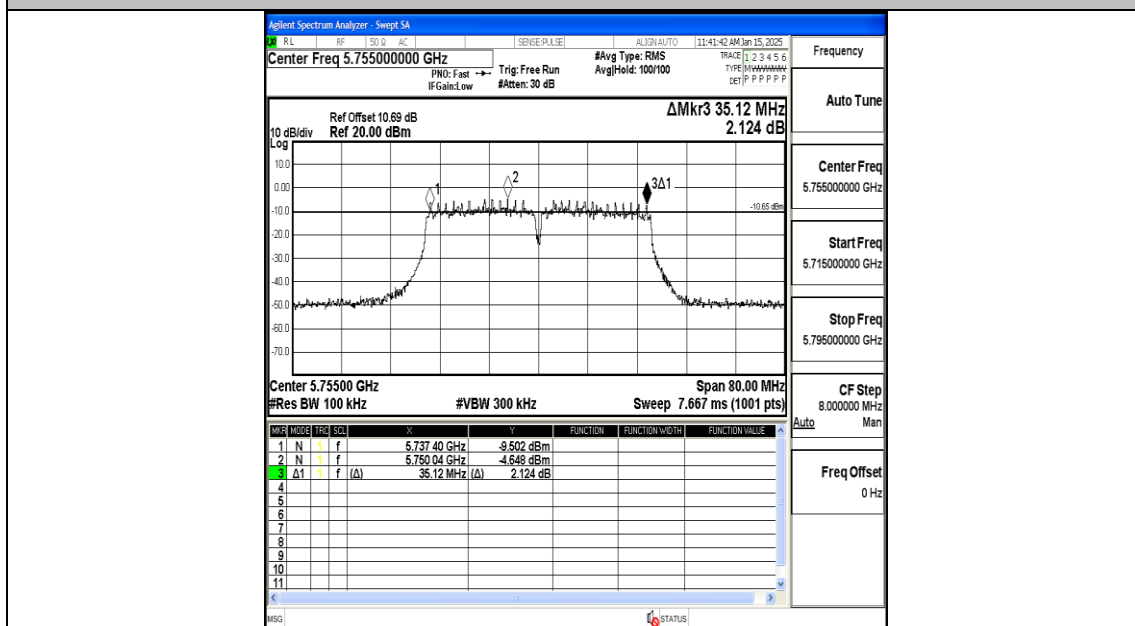
11AC20MIMO-Ant2-5785-PASS



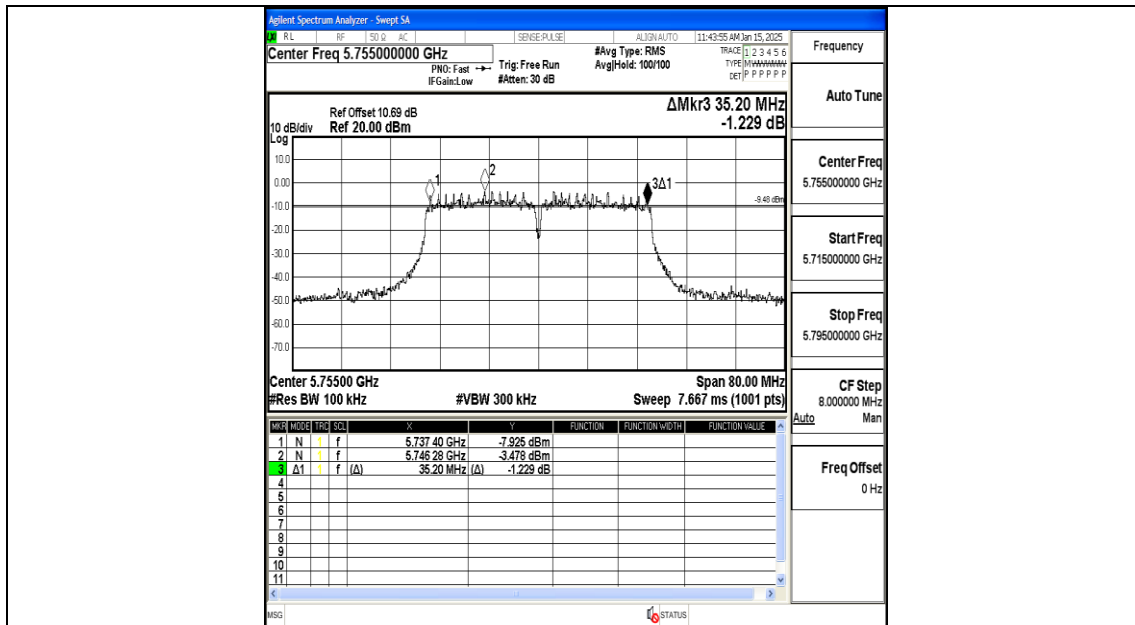
11AC20MIMO-Ant1-5825-PASS



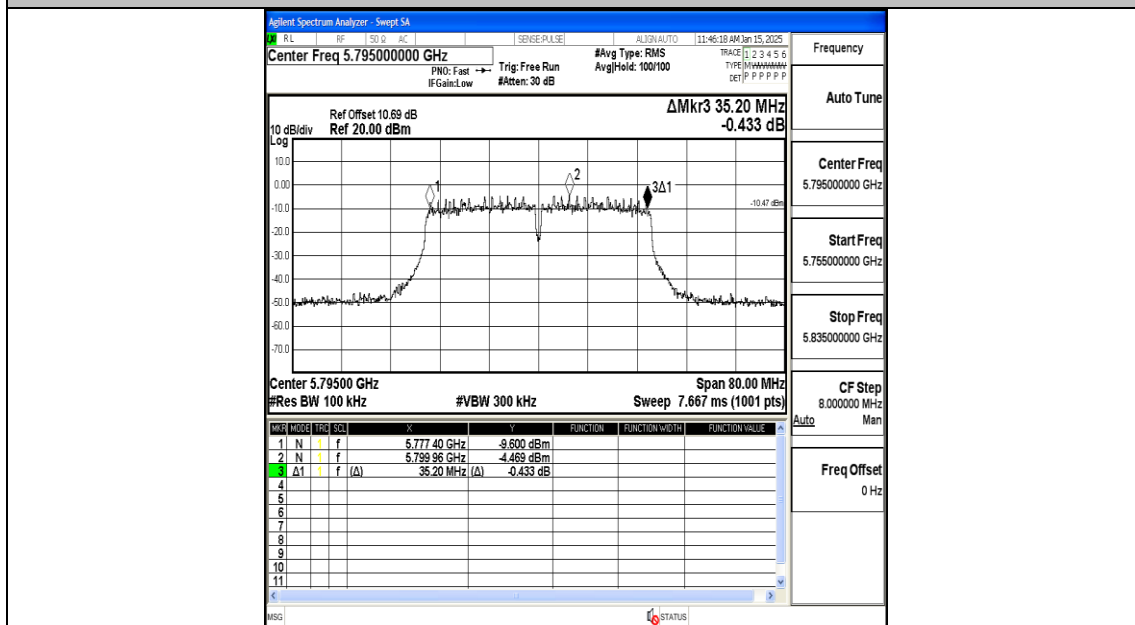
11AC20MIMO-Ant2-5825-PASS



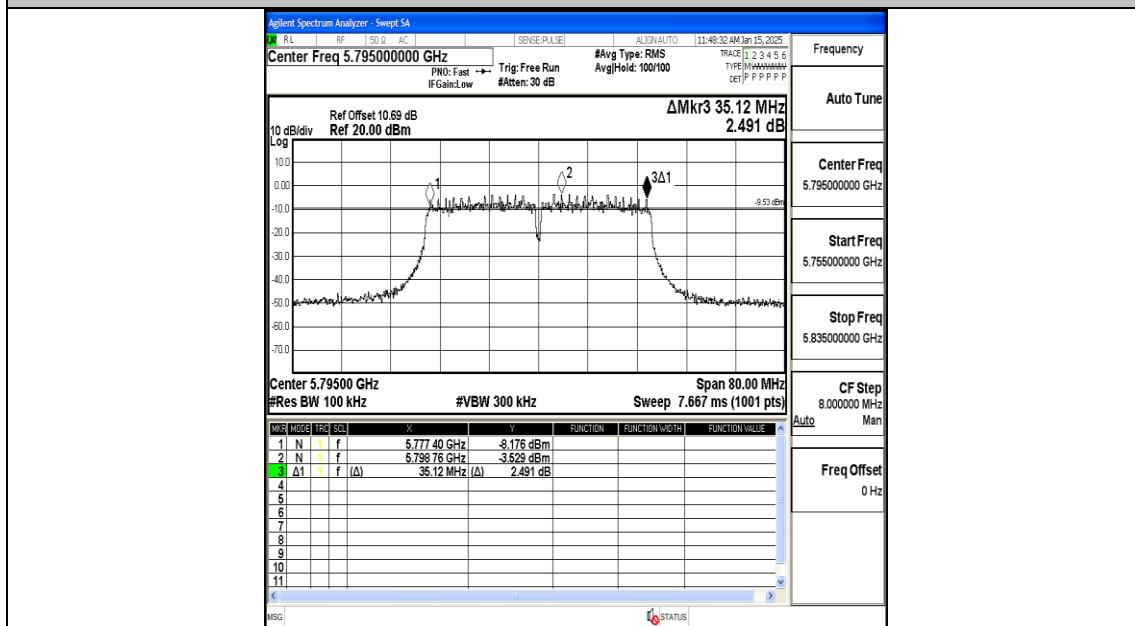
11AC40MIMO-Ant1-5755-PASS



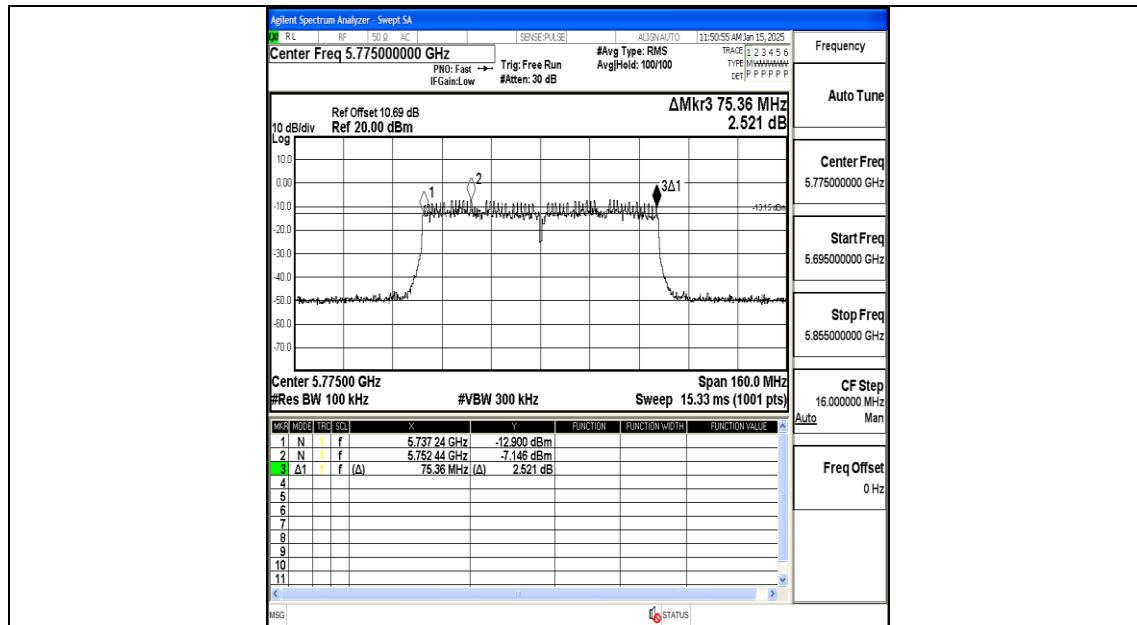
11AC40MIMO-Ant2-5755-PASS



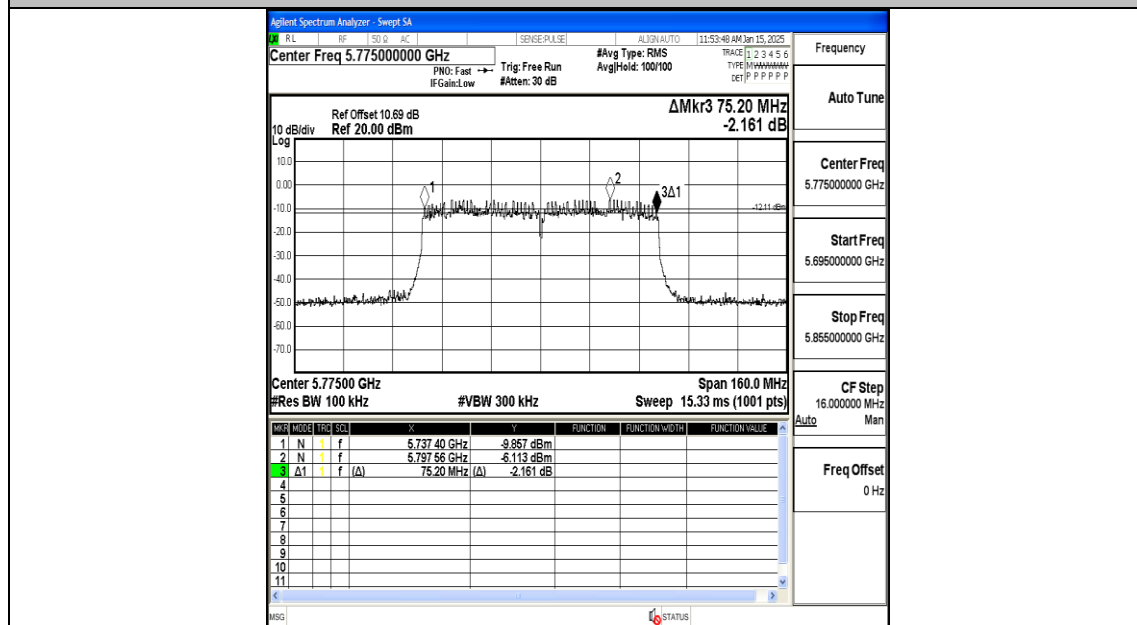
11AC40MIMO-Ant1-5795-PASS



11AC40MIMO-Ant2-5795-PASS



11AC80MIMO-Ant1-5775-PASS



11AC80MIMO-Ant2-5775-PASS

Appendix B: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Power [dBm]	Conducted Limit [dBm]	Verdict
11A	Ant1	5745	10.08	≤30.00	PASS
11A	Ant2	5745	11.37	≤30.00	PASS
11A	Ant1	5785	10.16	≤30.00	PASS
11A	Ant2	5785	11.64	≤30.00	PASS
11A	Ant1	5825	10.16	≤30.00	PASS
11A	Ant2	5825	10.80	≤30.00	PASS
11N20MIMO	Ant1	5745	9.82	≤30.00	PASS
11N20MIMO	Ant2	5745	10.56	≤30.00	PASS
11N20MIMO	total	5745	13.22	≤30.00	PASS
11N20MIMO	Ant1	5785	10.17	≤30.00	PASS
11N20MIMO	Ant2	5785	11.18	≤30.00	PASS
11N20MIMO	total	5785	13.71	≤30.00	PASS
11N20MIMO	Ant1	5825	9.85	≤30.00	PASS
11N20MIMO	Ant2	5825	10.51	≤30.00	PASS
11N20MIMO	total	5825	13.20	≤30.00	PASS
11N40MIMO	Ant1	5755	9.68	≤30.00	PASS
11N40MIMO	Ant2	5755	11.08	≤30.00	PASS
11N40MIMO	total	5755	13.45	≤30.00	PASS
11N40MIMO	Ant1	5795	10.37	≤30.00	PASS
11N40MIMO	Ant2	5795	12.16	≤30.00	PASS
11N40MIMO	total	5795	14.37	≤30.00	PASS
11AC20MIMO	Ant1	5745	9.57	≤30.00	PASS
11AC20MIMO	Ant2	5745	10.81	≤30.00	PASS
11AC20MIMO	total	5745	13.24	≤30.00	PASS
11AC20MIMO	Ant1	5785	9.66	≤30.00	PASS
11AC20MIMO	Ant2	5785	10.80	≤30.00	PASS
11AC20MIMO	total	5785	13.28	≤30.00	PASS
11AC20MIMO	Ant1	5825	8.93	≤30.00	PASS
11AC20MIMO	Ant2	5825	10.29	≤30.00	PASS
11AC20MIMO	total	5825	12.67	≤30.00	PASS
11AC40MIMO	Ant1	5755	10.13	≤30.00	PASS
11AC40MIMO	Ant2	5755	11.33	≤30.00	PASS
11AC40MIMO	total	5755	13.78	≤30.00	PASS
11AC40MIMO	Ant1	5795	10.22	≤30.00	PASS
11AC40MIMO	Ant2	5795	11.47	≤30.00	PASS
11AC40MIMO	total	5795	13.90	≤30.00	PASS
11AC80MIMO	Ant1	5775	10.31	≤30.00	PASS
11AC80MIMO	Ant2	5775	11.79	≤30.00	PASS
11AC80MIMO	total	5775	14.12	≤30.00	PASS

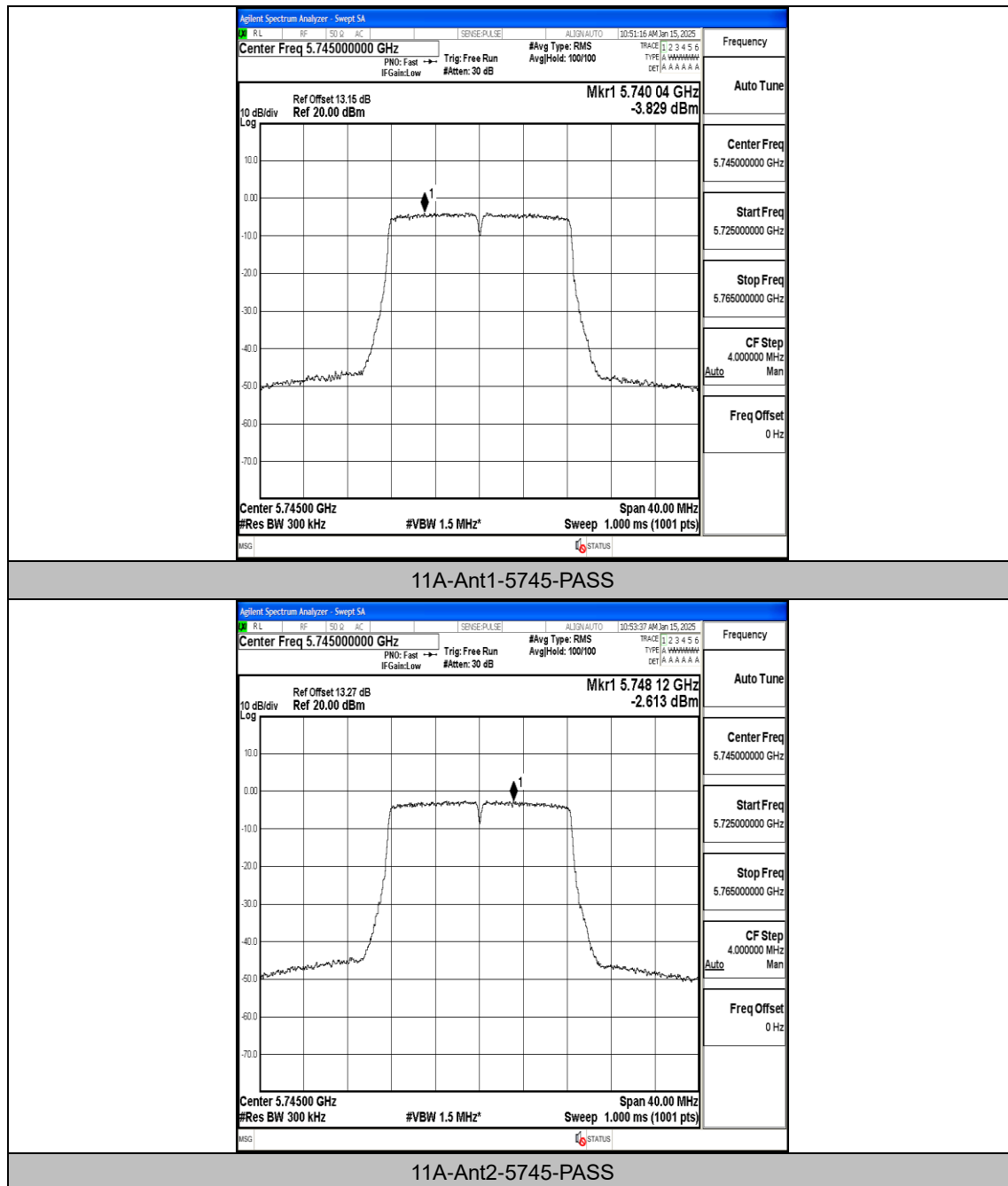
Appendix C: Maximum power spectral density

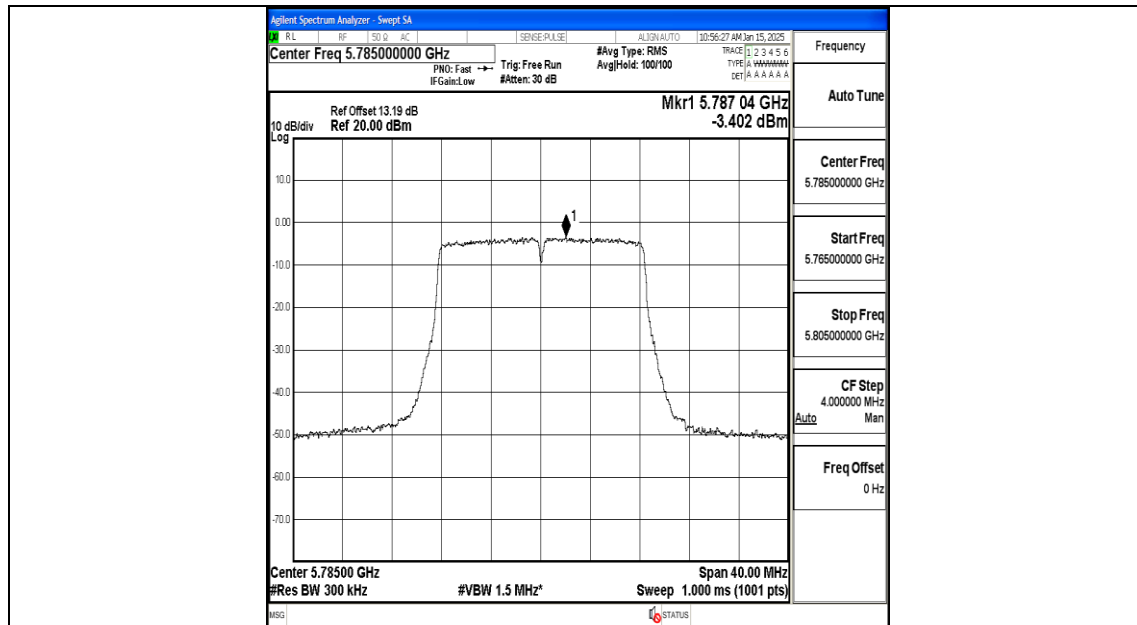
Test Result

Frequency [MHz]	Test Mode	Antenna	Result [dBm/500k Hz]	DC Factor [dB]	RBW Factor [dB]	Limit [dBm/500k Hz]	Verdict
5745	11A	Ant1	-3.83	0.24	2.22	≤30.00	PASS
5745	11A	Ant2	-2.61	0.36	2.22	≤30.00	PASS
5785	11A	Ant1	-3.40	0.28	2.22	≤30.00	PASS
5785	11A	Ant2	-2.10	0.46	2.22	≤30.00	PASS
5825	11A	Ant1	-3.46	0.42	2.22	≤30.00	PASS
5825	11A	Ant2	-2.98	0.40	2.22	≤30.00	PASS
5745	11N20M IMO	Ant1	-3.02	4.42	2.22	≤30.00	PASS
5745	11N20M IMO	Ant2	-2.62	3.85	2.22	≤30.00	PASS
5745	11N20M IMO	total	0.19	---	---	≤28.63	PASS
5785	11N20M IMO	Ant1	-2.57	4.30	2.22	≤30.00	PASS
5785	11N20M IMO	Ant2	-1.80	4.22	2.22	≤30.00	PASS
5785	11N20M IMO	total	0.84	---	---	≤28.63	PASS
5825	11N20M IMO	Ant1	-3.10	4.22	2.22	≤30.00	PASS
5825	11N20M IMO	Ant2	-2.33	4.10	2.22	≤30.00	PASS
5825	11N20M IMO	total	0.31	---	---	≤28.63	PASS
5755	11N40M IMO	Ant1	-5.13	4.93	2.22	≤30.00	PASS
5755	11N40M IMO	Ant2	-4.14	5.08	2.22	≤30.00	PASS
5755	11N40M IMO	total	-1.60	---	---	≤28.63	PASS
5795	11N40M IMO	Ant1	-5.16	5.08	2.22	≤30.00	PASS
5795	11N40M IMO	Ant2	-2.88	5.88	2.22	≤30.00	PASS
5795	11N40M IMO	total	-0.86	---	---	≤28.63	PASS
5745	11AC20 MIMO	Ant1	-4.01	3.41	2.22	≤30.00	PASS
5745	11AC20 MIMO	Ant2	-2.17	3.42	2.22	≤30.00	PASS

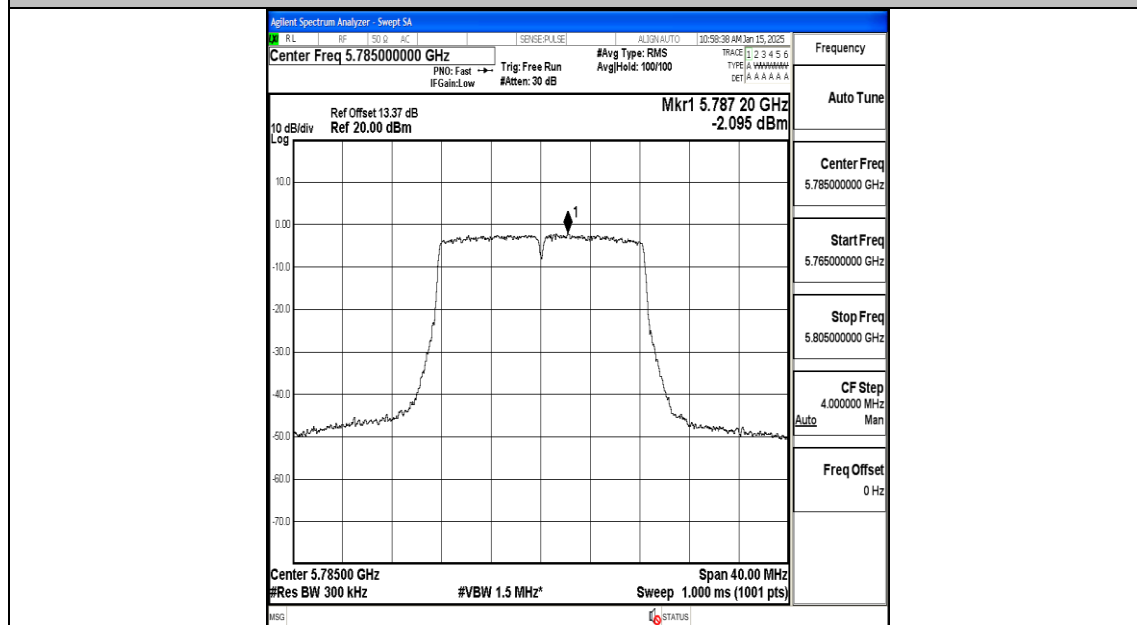
5745	11AC20 MIMO	total	0.02	---	---	≤28.63	PASS
5785	11AC20 MIMO	Ant1	-3.28	3.42	2.22	≤30.00	PASS
5785	11AC20 MIMO	Ant2	-2.19	3.52	2.22	≤30.00	PASS
5785	11AC20 MIMO	total	0.31	---	---	≤28.63	PASS
5825	11AC20 MIMO	Ant1	-4.68	3.01	2.22	≤30.00	PASS
5825	11AC20 MIMO	Ant2	-2.62	3.62	2.22	≤30.00	PASS
5825	11AC20 MIMO	total	-0.52	---	---	≤28.63	PASS
5755	11AC40 MIMO	Ant1	-4.99	5.15	2.22	≤30.00	PASS
5755	11AC40 MIMO	Ant2	-3.74	5.15	2.22	≤30.00	PASS
5755	11AC40 MIMO	total	-1.31	---	---	≤28.63	PASS
5795	11AC40 MIMO	Ant1	-4.73	5.15	2.22	≤30.00	PASS
5795	11AC40 MIMO	Ant2	-4.21	5.15	2.22	≤30.00	PASS
5795	11AC40 MIMO	total	-1.45	---	---	≤28.63	PASS
5775	11AC80 MIMO	Ant1	-8.04	6.17	2.22	≤30.00	PASS
5775	11AC80 MIMO	Ant2	-6.10	6.46	2.22	≤30.00	PASS
5775	11AC80 MIMO	total	-3.95	---	---	≤28.63	PASS

Test Graphs

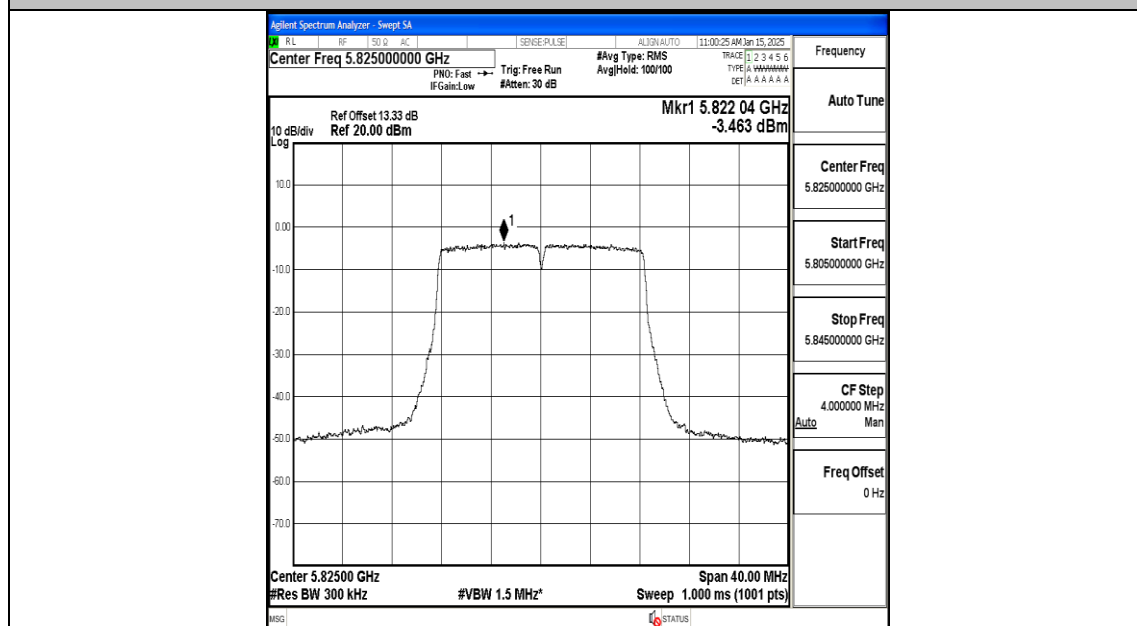




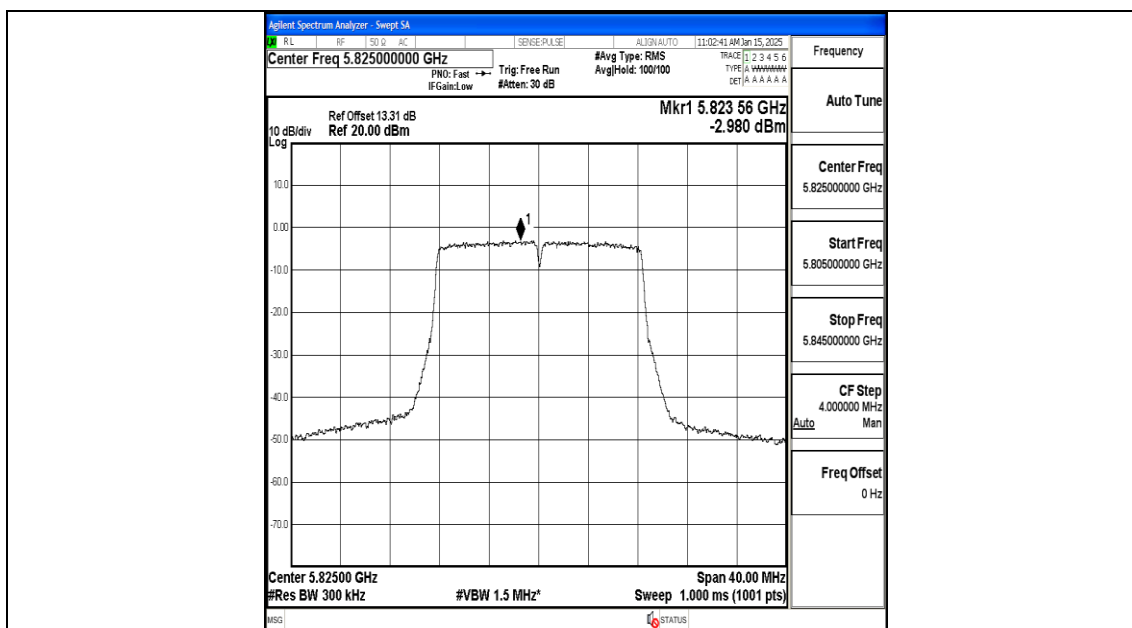
11A-Ant1-5785-PASS



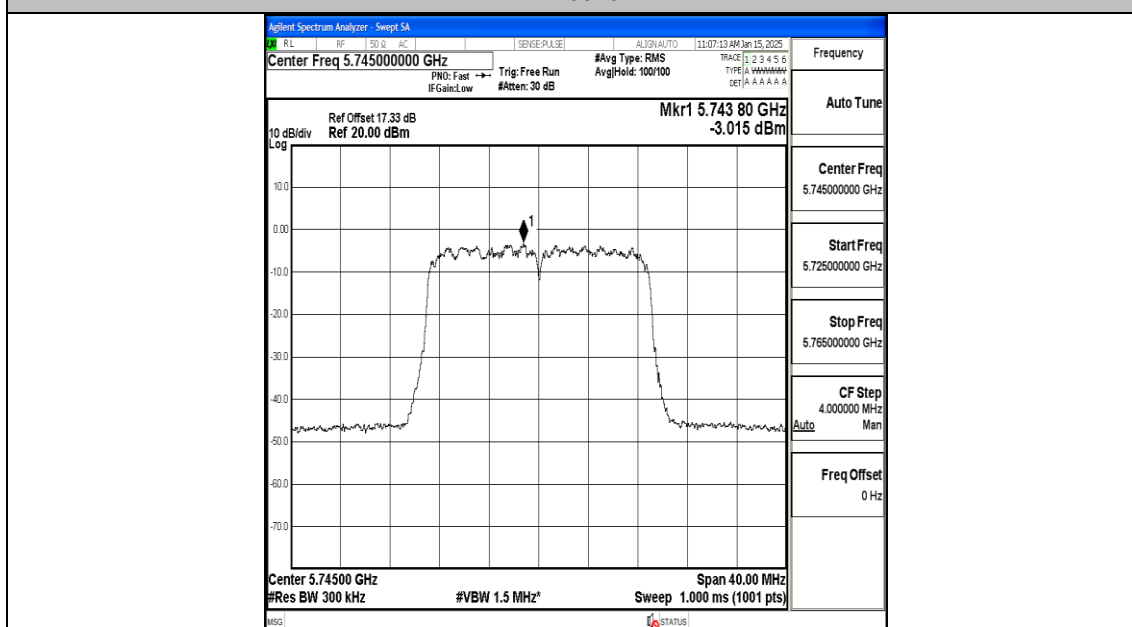
11A-Ant2-5785-PASS



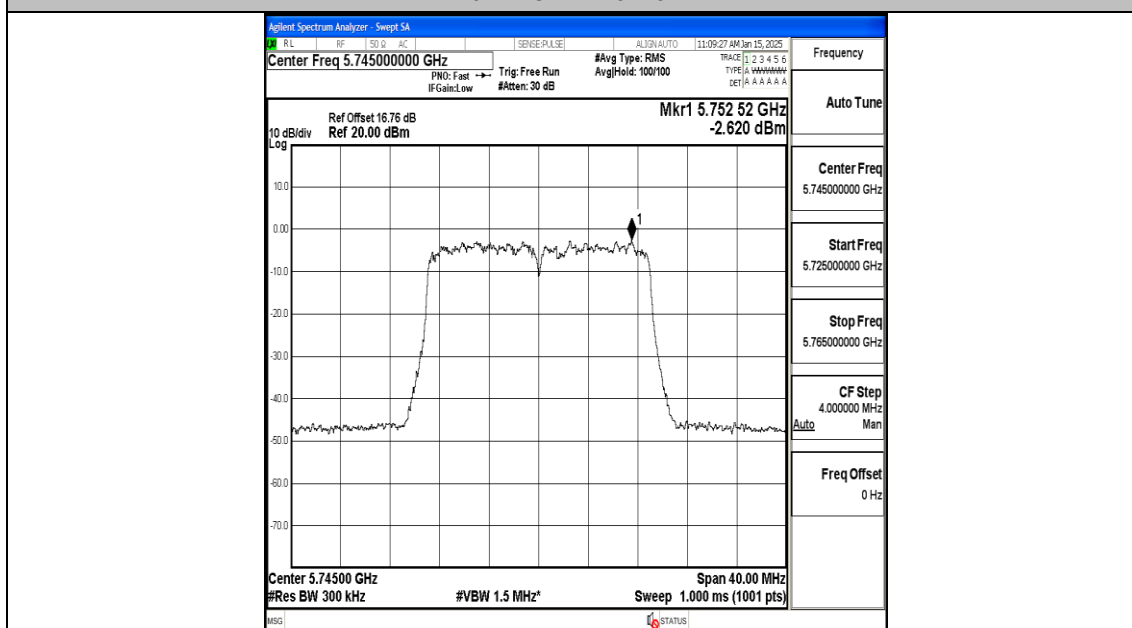
11A-Ant1-5825-PASS



11A-Ant2-5825-PASS



11N20MIMO-Ant1-5745-PASS



11N20MIMO-Ant2-5745-PASS