

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

Product Name: NucBox

Trade Mark: GMKtec

Test Model: M7

FCC ID: 2AXUD-M7

Environmental Conditions

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

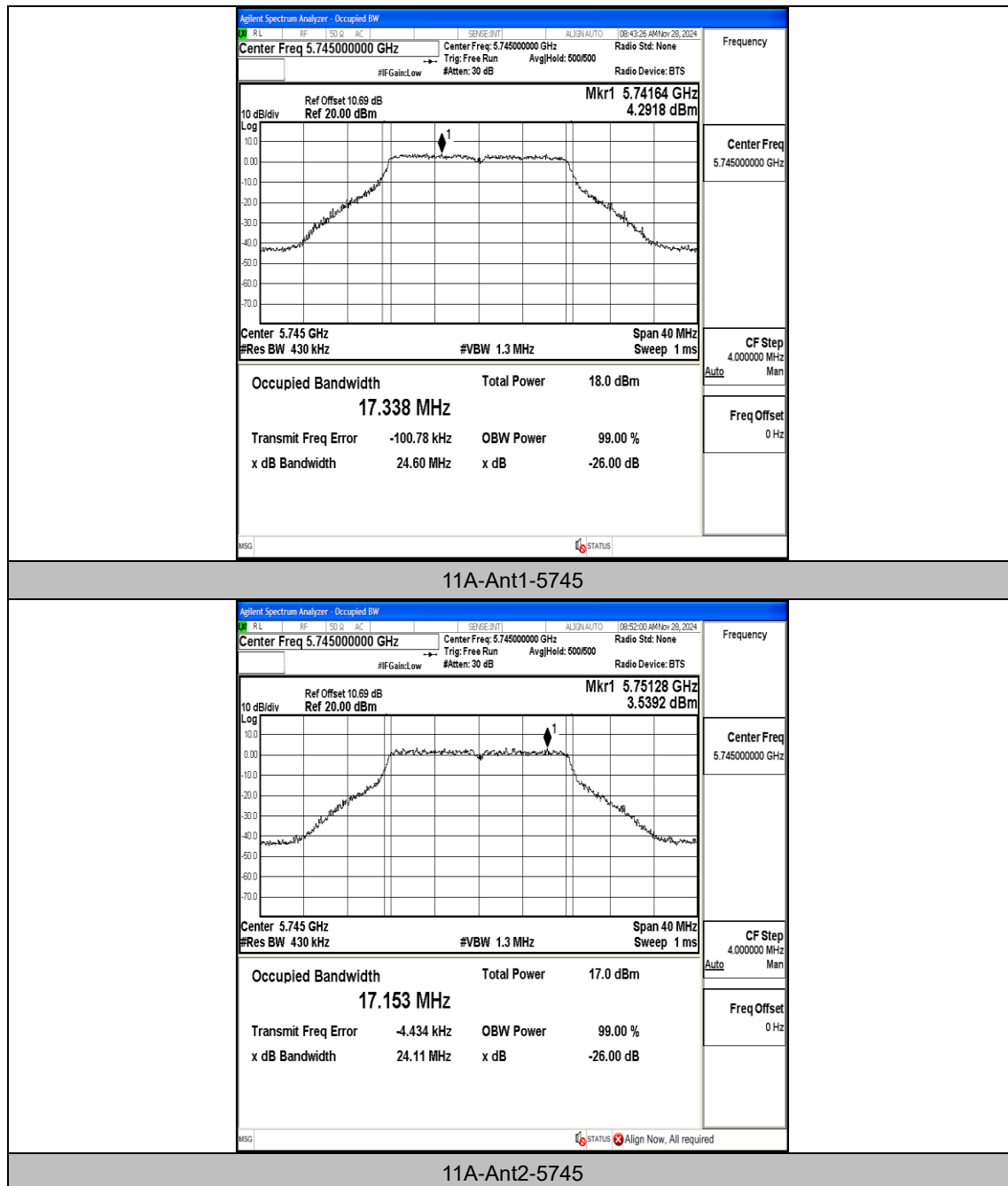
Appendix A2: Occupied channel bandwidth

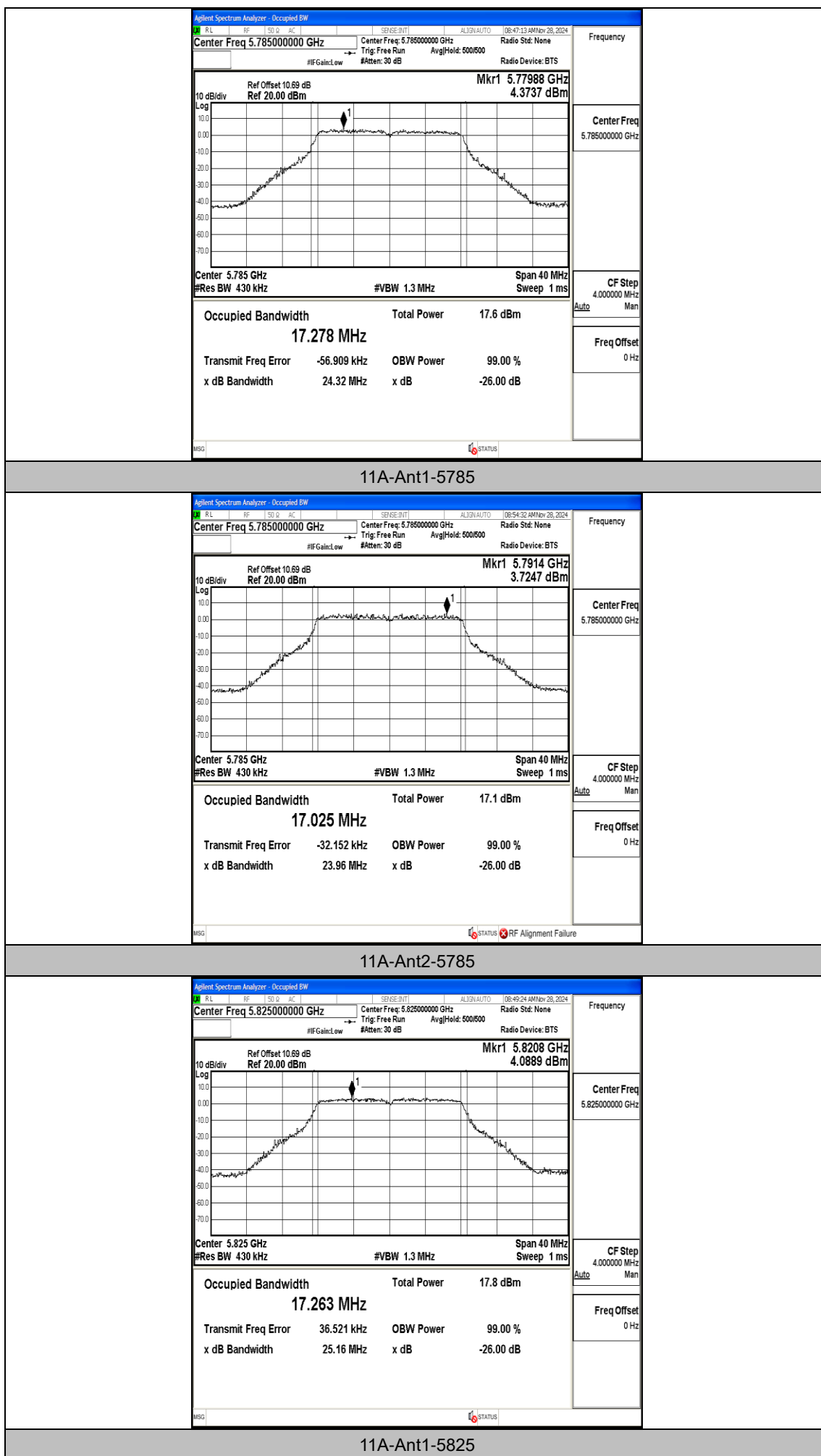
Test Result

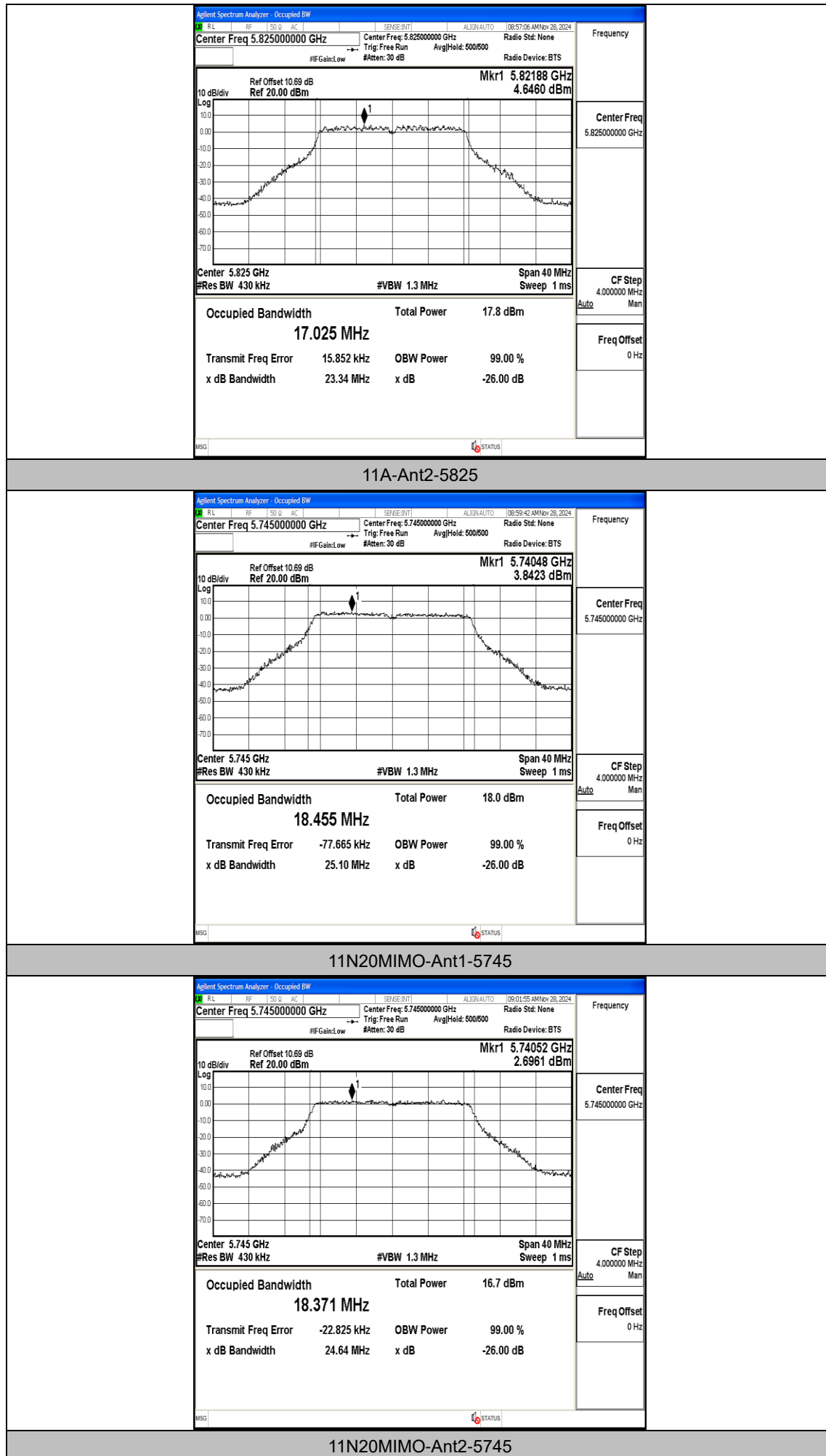
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	17.338	5736.2302	5753.5682	---	---
11A	Ant2	5745	17.153	5736.4191	5753.5721	---	---
11A	Ant1	5785	17.278	5776.3041	5793.5821	---	---
11A	Ant2	5785	17.025	5776.4554	5793.4804	---	---
11A	Ant1	5825	17.263	5816.4050	5833.6680	---	---
11A	Ant2	5825	17.025	5816.5034	5833.5284	---	---
11N20MIMO	Ant1	5745	18.455	5735.6948	5754.1498	---	---
11N20MIMO	Ant2	5745	18.371	5735.7917	5754.1627	---	---
11N20MIMO	Ant1	5785	18.302	5775.7963	5794.0983	---	---
11N20MIMO	Ant2	5785	18.311	5775.8275	5794.1385	---	---
11N20MIMO	Ant1	5825	18.318	5815.8785	5834.1965	---	---
11N20MIMO	Ant2	5825	18.256	5815.8936	5834.1496	---	---
11N40MIMO	Ant1	5755	36.874	5736.5923	5773.4663	---	---
11N40MIMO	Ant2	5755	36.830	5736.6380	5773.4680	---	---
11N40MIMO	Ant1	5795	36.857	5776.5869	5813.4439	---	---
11N40MIMO	Ant2	5795	36.845	5776.6230	5813.4680	---	---
11AC20MIMO	Ant1	5745	18.352	5735.7369	5754.0889	---	---
11AC20MIMO	Ant2	5745	18.074	5735.9443	5754.0183	---	---
11AC20MIMO	Ant1	5785	18.324	5775.8146	5794.1386	---	---
11AC20MIMO	Ant2	5785	18.057	5775.9861	5794.0431	---	---
11AC20MIMO	Ant1	5825	18.291	5815.8942	5834.1852	---	---
11AC20MIMO	Ant2	5825	18.048	5816.0256	5834.0736	---	---
11AC40MIMO	Ant1	5755	36.838	5736.6033	5773.4413	---	---
11AC40MIMO	Ant2	5755	36.699	5736.7092	5773.4082	---	---
11AC40MIMO	Ant1	5795	36.863	5776.6115	5813.4745	---	---

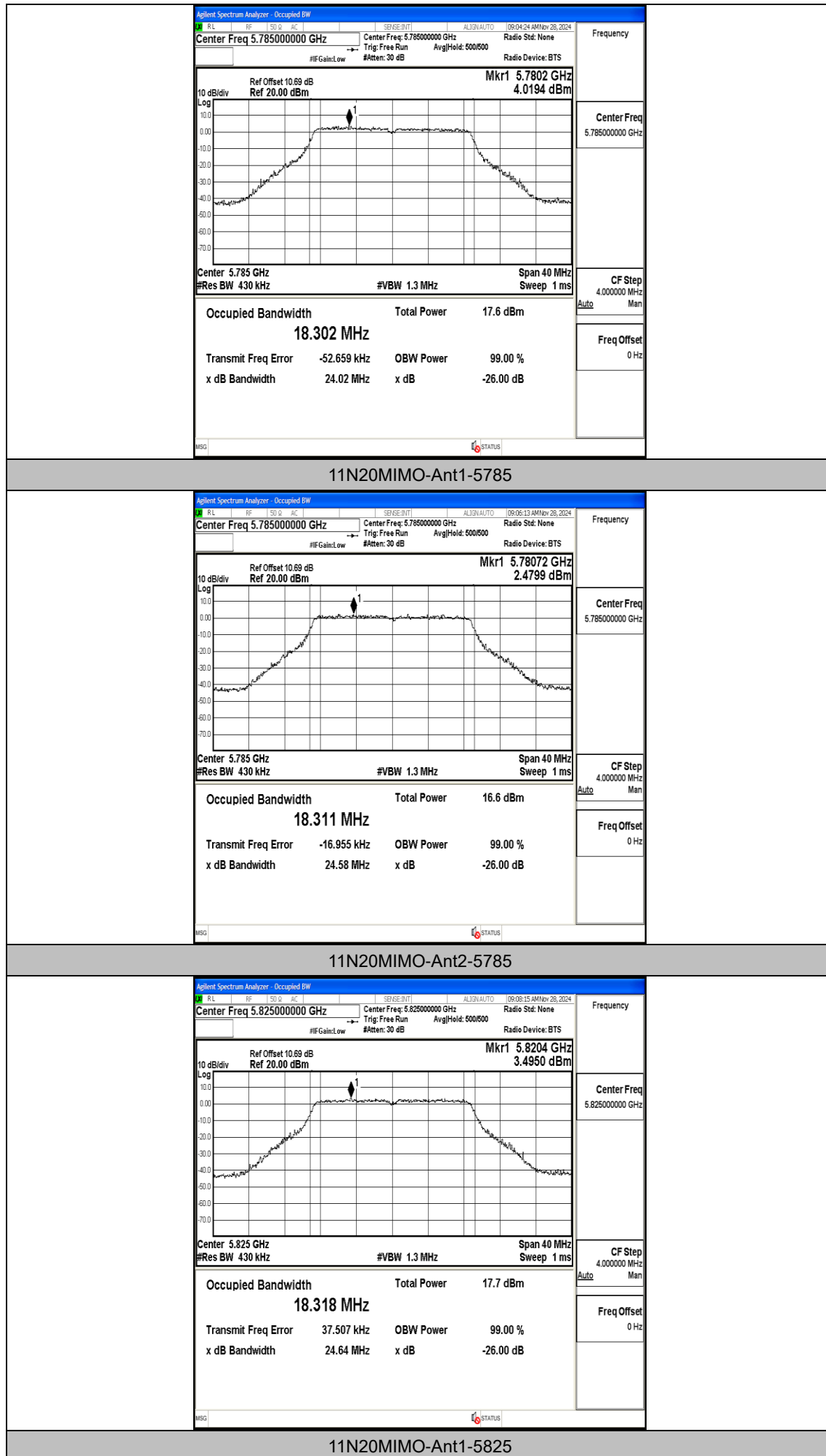
11AC40MIMO	Ant2	5795	36.633	5776.7448	5813.3778	---	---
11AC80MIMO	Ant1	5775	75.404	5737.3605	5812.7645	---	---
11AC80MIMO	Ant2	5775	75.352	5737.4680	5812.8200	---	---
11AX20MIMO	Ant1	5745	19.244	5735.3409	5754.5849	---	---
11AX20MIMO	Ant2	5745	19.231	5735.3821	5754.6131	---	---
11AX20MIMO	Ant1	5785	19.186	5775.3795	5794.5655	---	---
11AX20MIMO	Ant2	5785	19.160	5775.4189	5794.5789	---	---
11AX20MIMO	Ant1	5825	19.185	5815.4211	5834.6061	---	---
11AX20MIMO	Ant2	5825	19.150	5815.4558	5834.6058	---	---
11AX40MIMO	Ant1	5755	38.124	5735.9847	5774.1087	---	---
11AX40MIMO	Ant2	5755	38.129	5736.0085	5774.1375	---	---
11AX40MIMO	Ant1	5795	38.165	5775.9587	5814.1237	---	---
11AX40MIMO	Ant2	5795	38.157	5775.9882	5814.1452	---	---
11AX80MIMO	Ant1	5775	76.900	5736.6146	5813.5146	---	---
11AX80MIMO	Ant2	5775	76.865	5736.6274	5813.4924	---	---

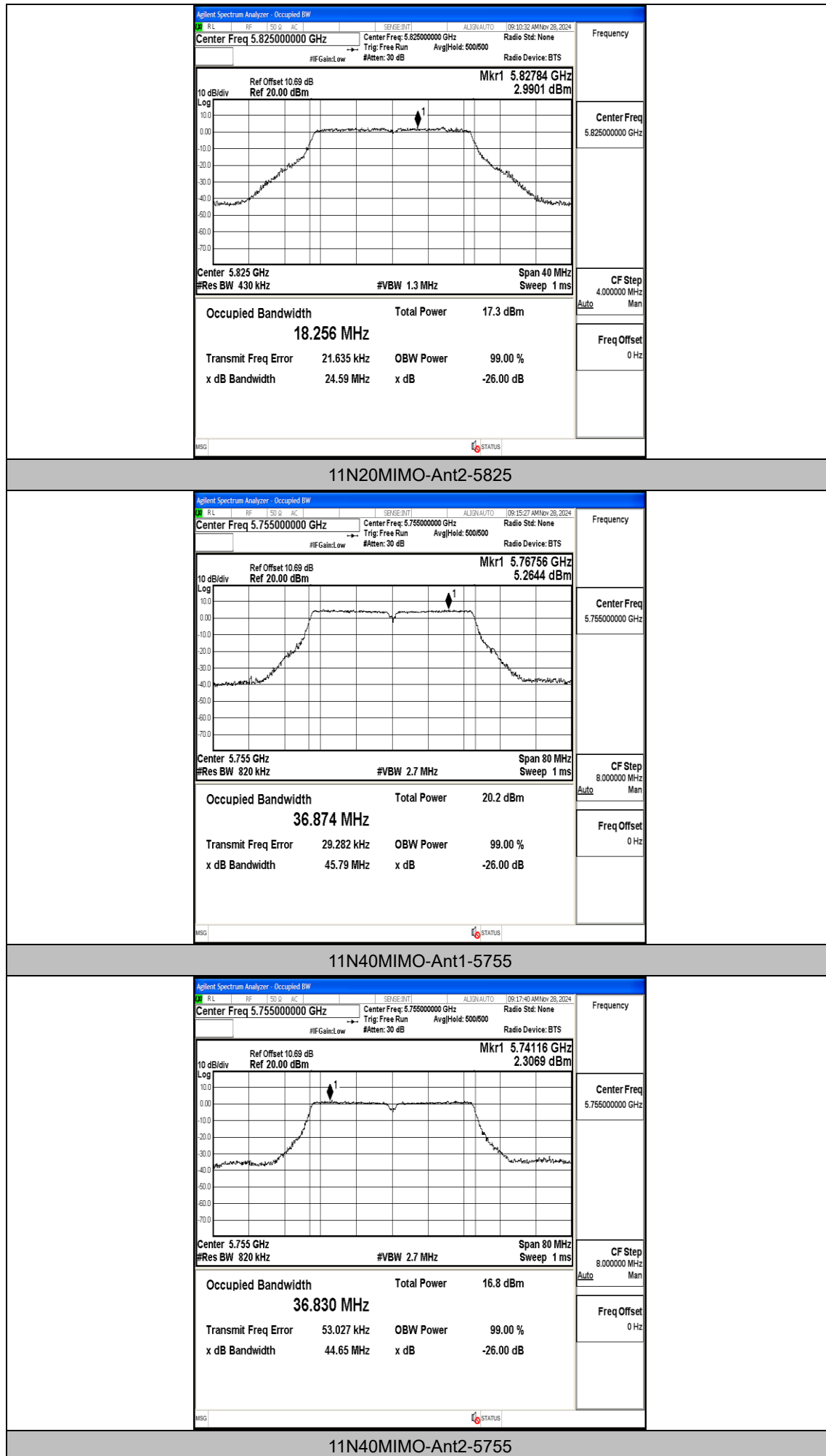
Test Graphs

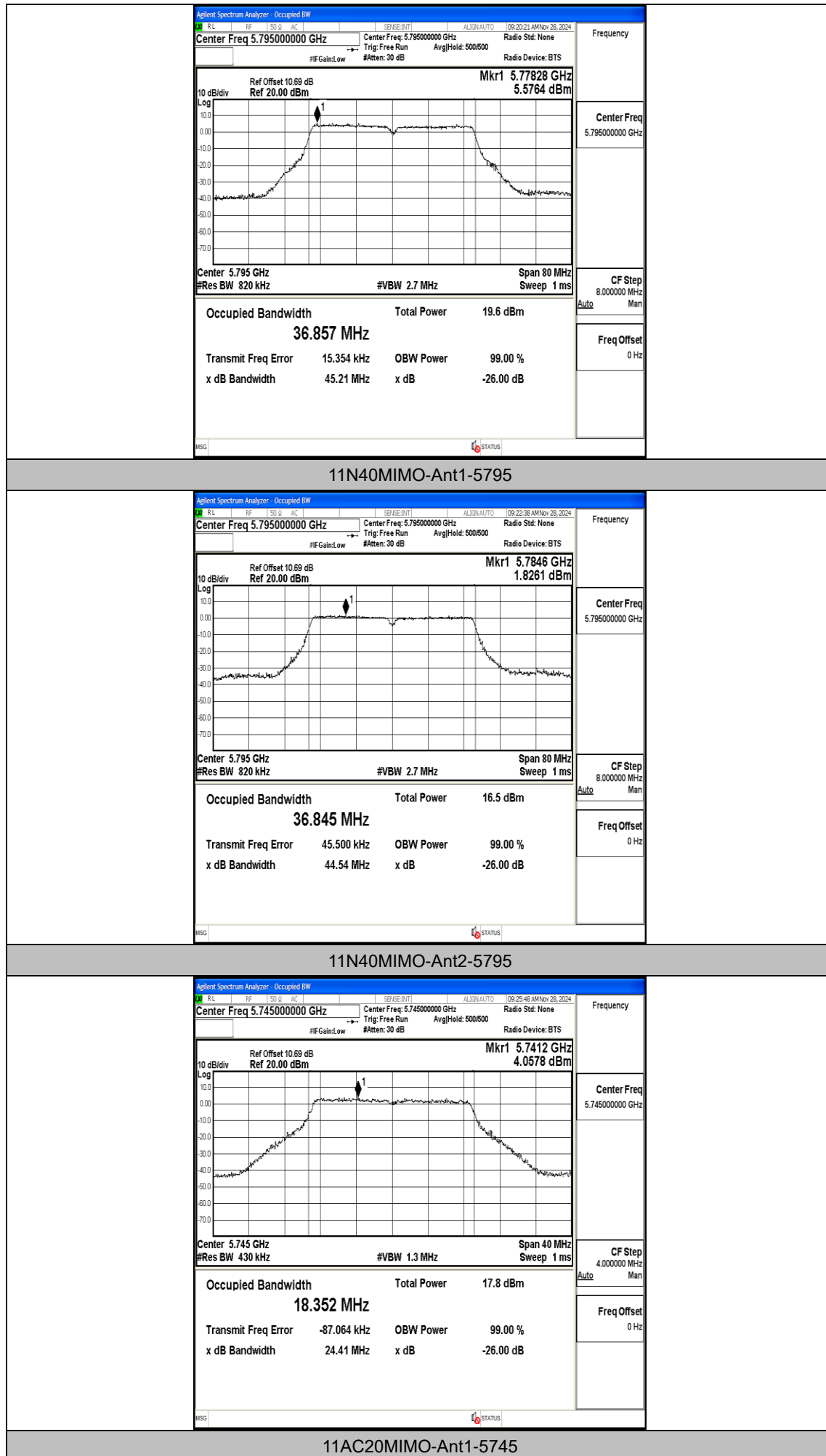


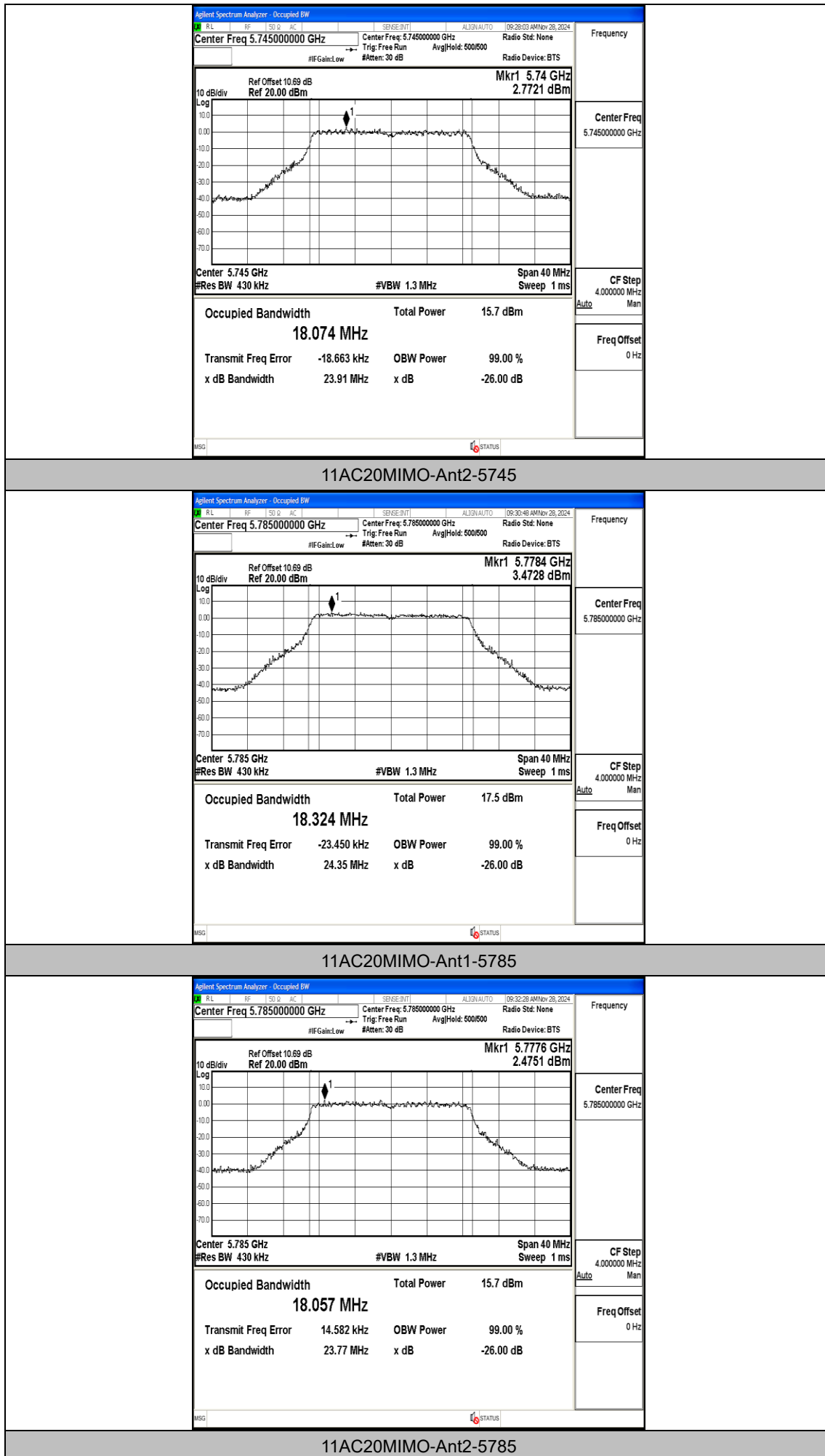


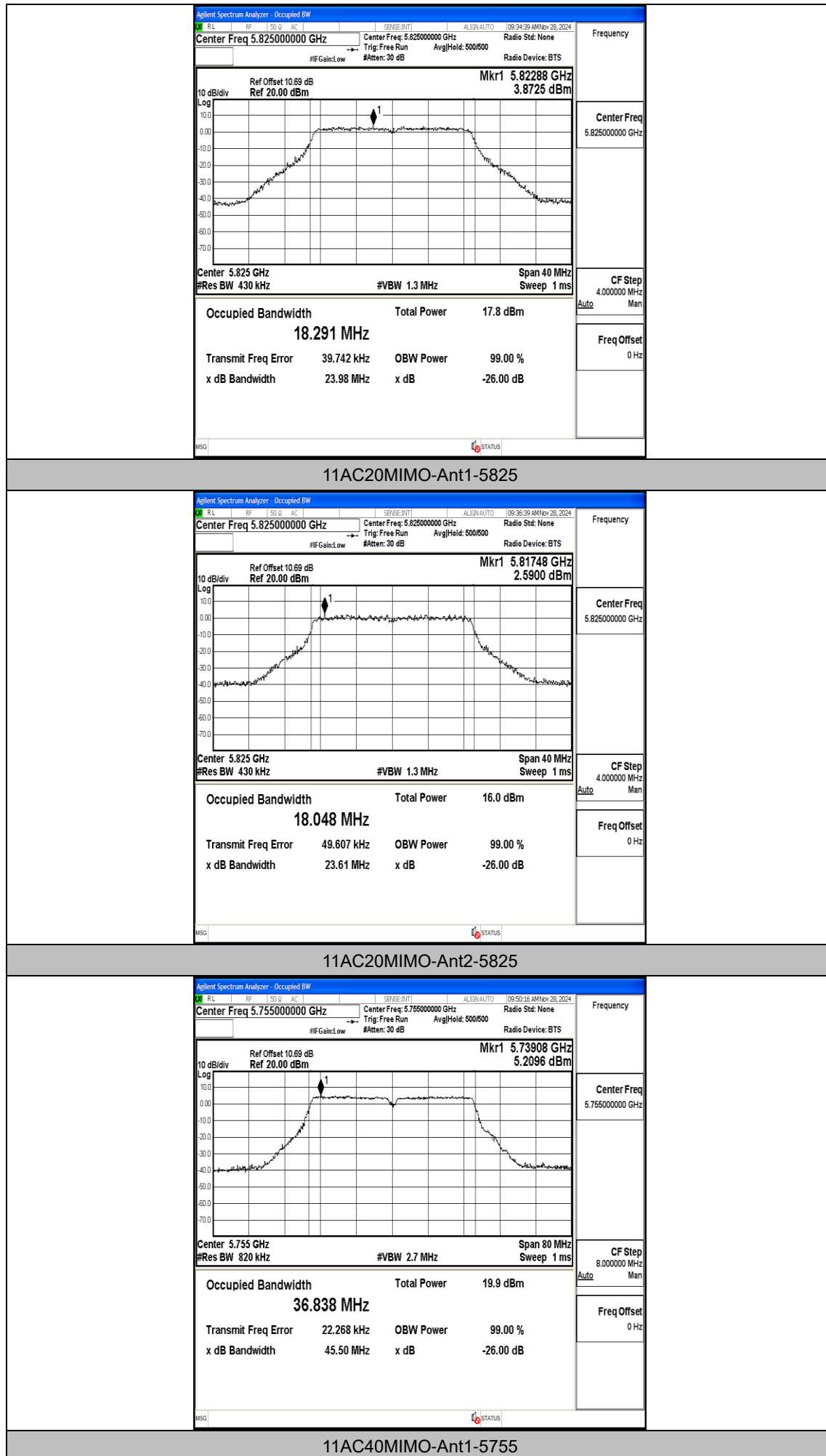


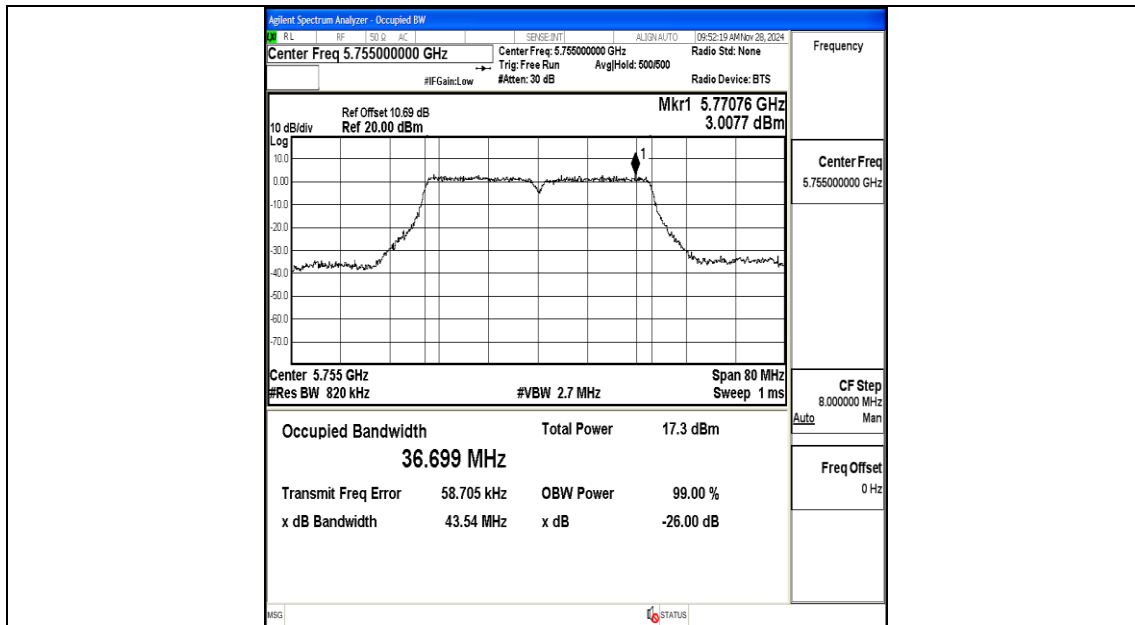




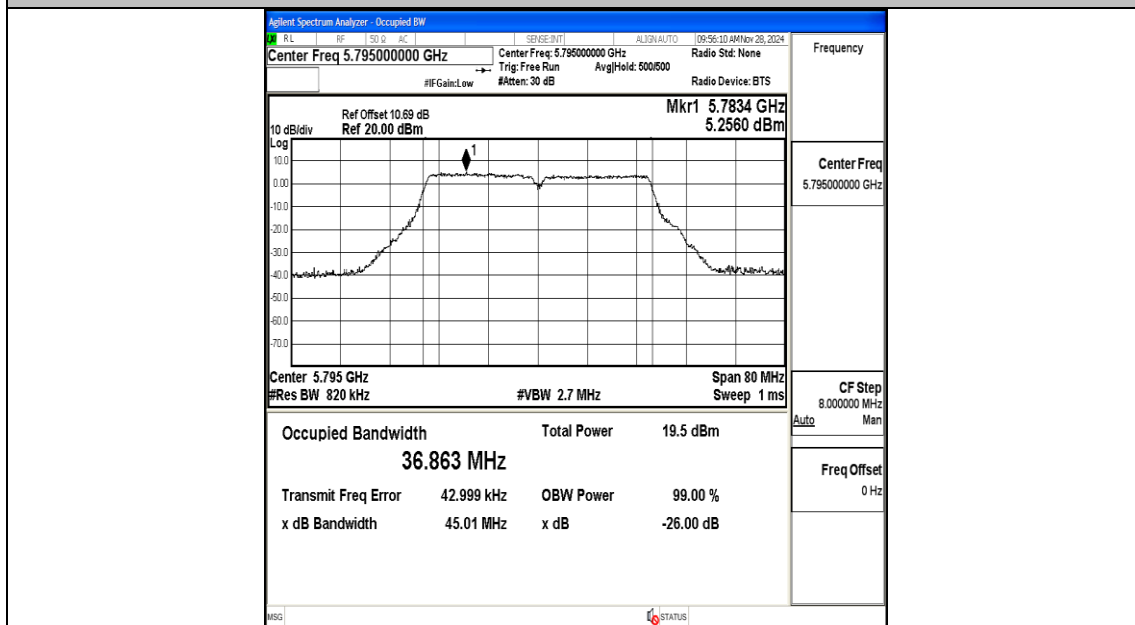




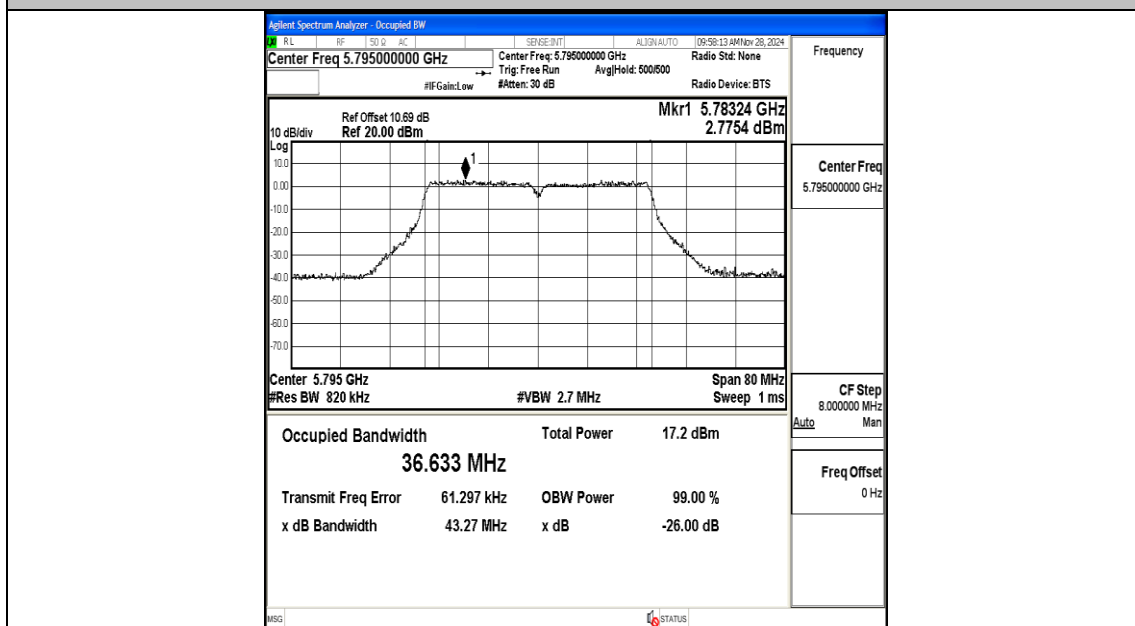




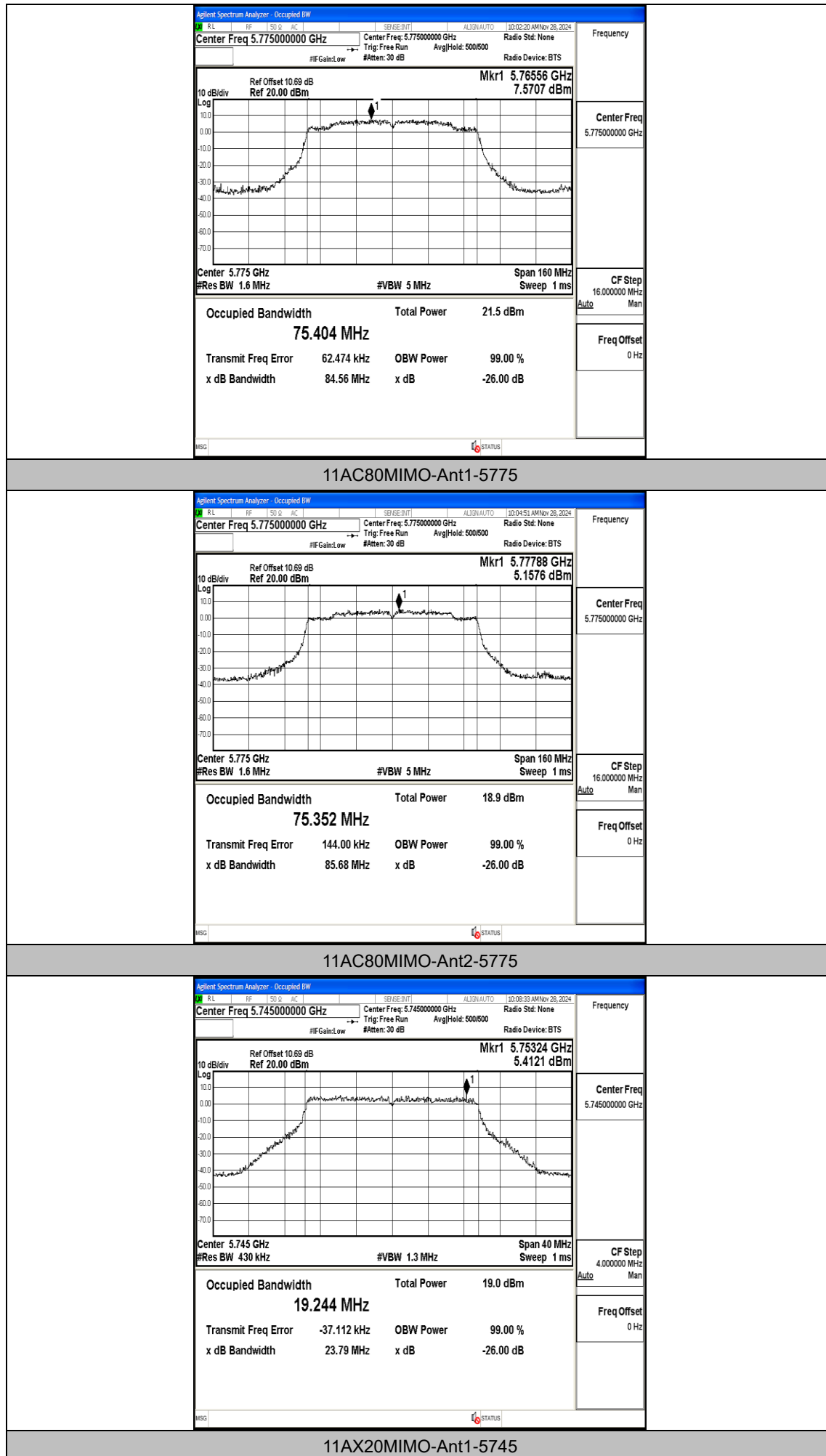
11AC40MIMO-Ant2-5755

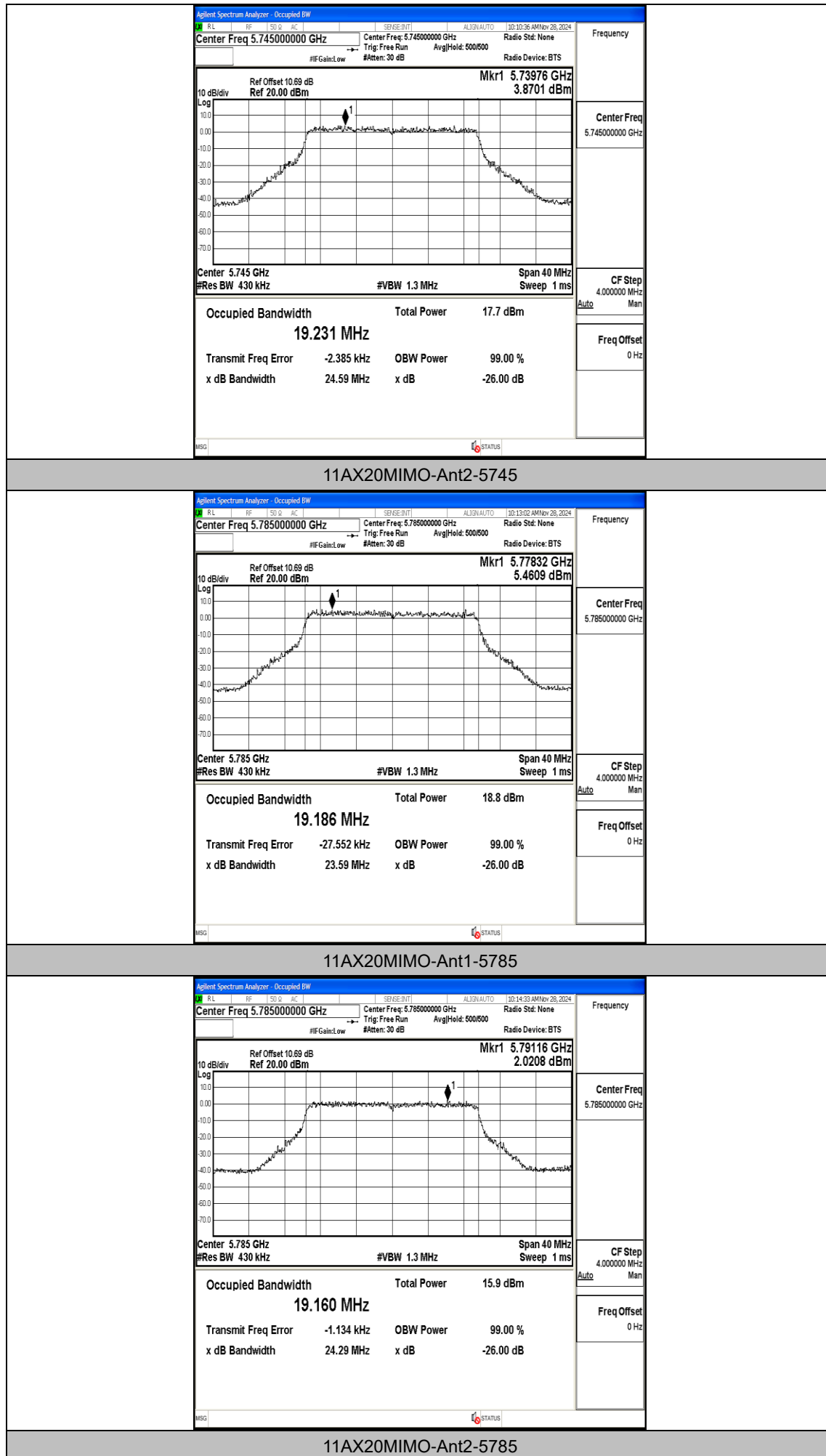


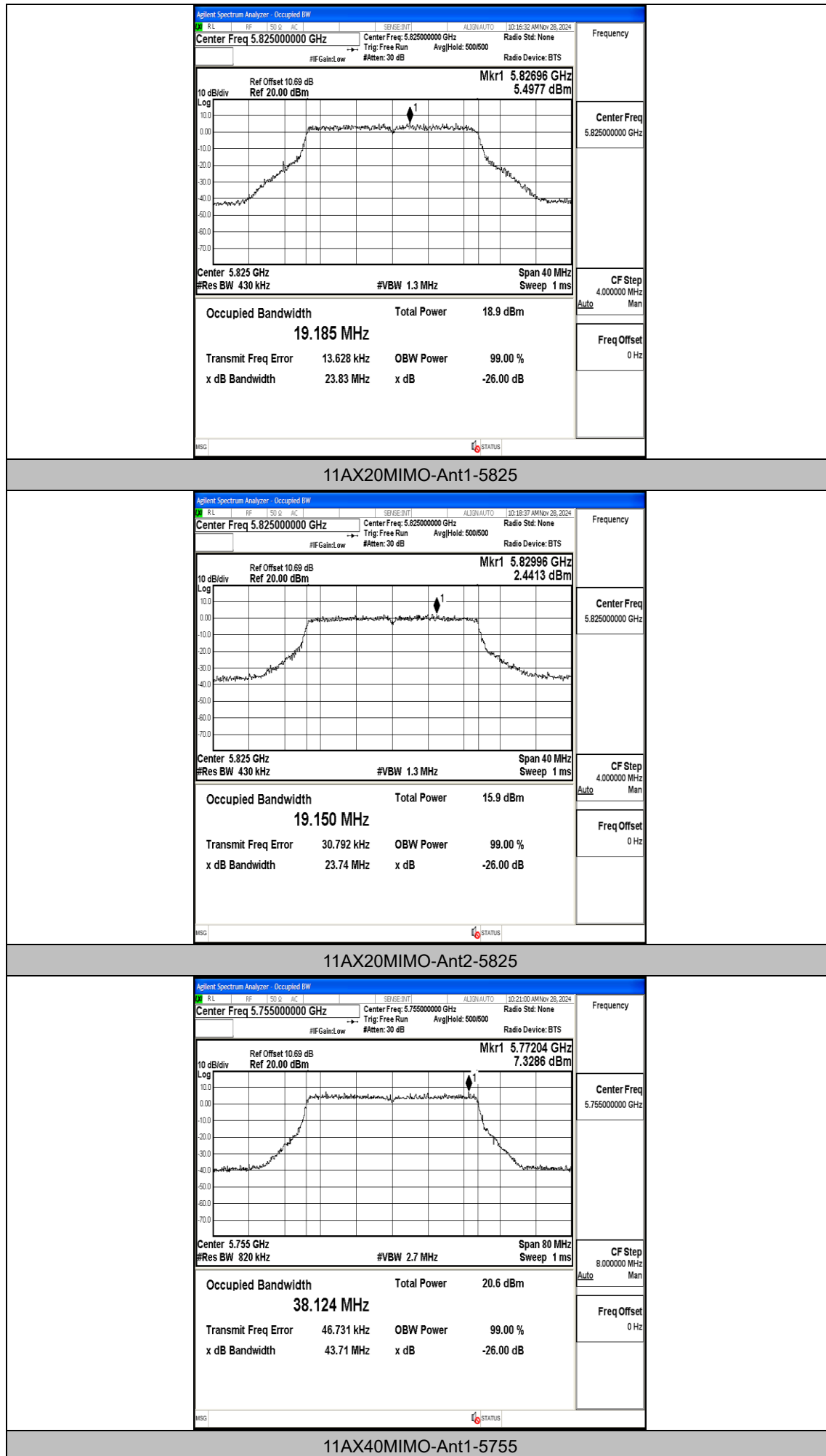
11AC40MIMO-Ant1-5795

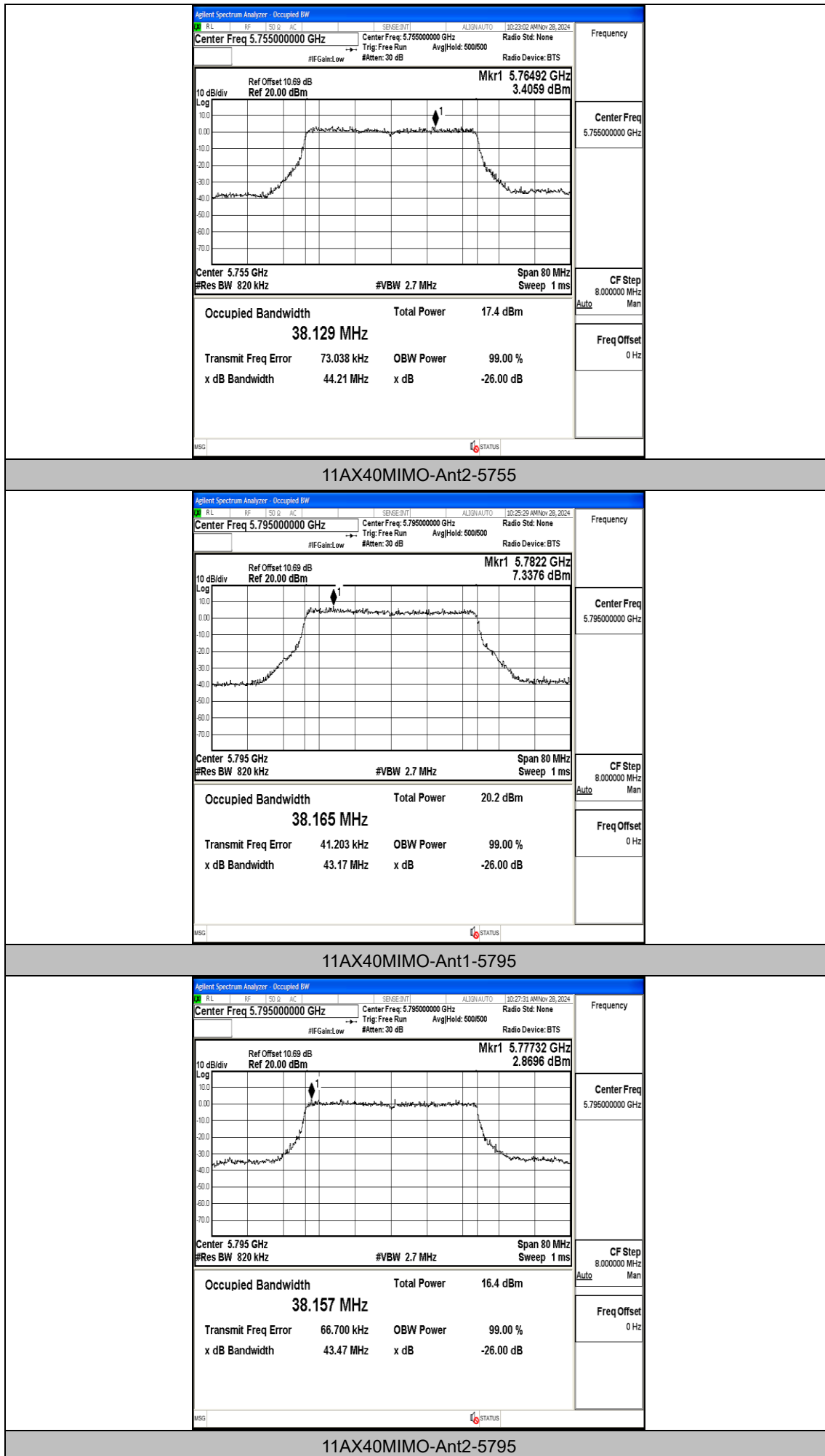


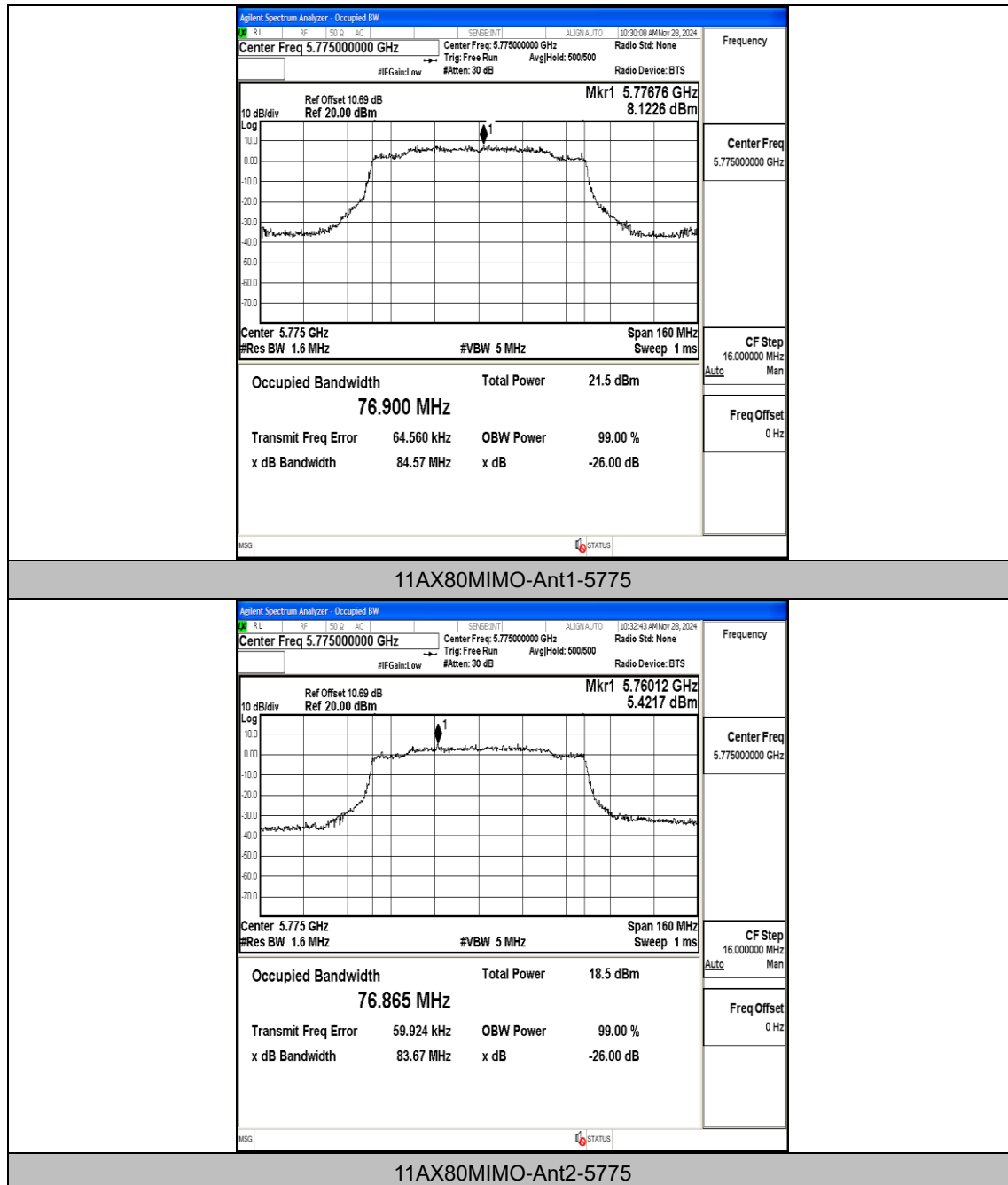
11AC40MIMO-Ant2-5795









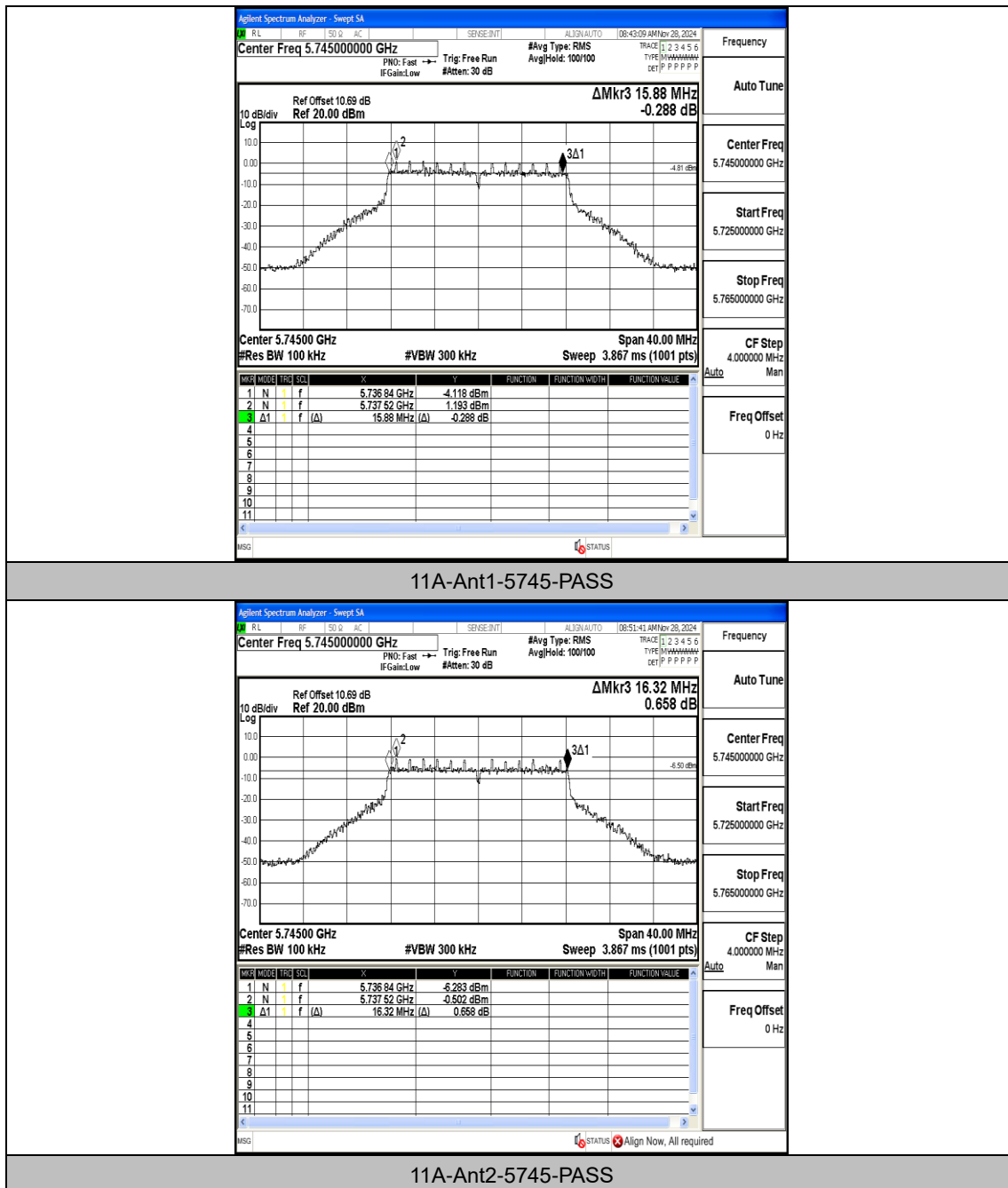


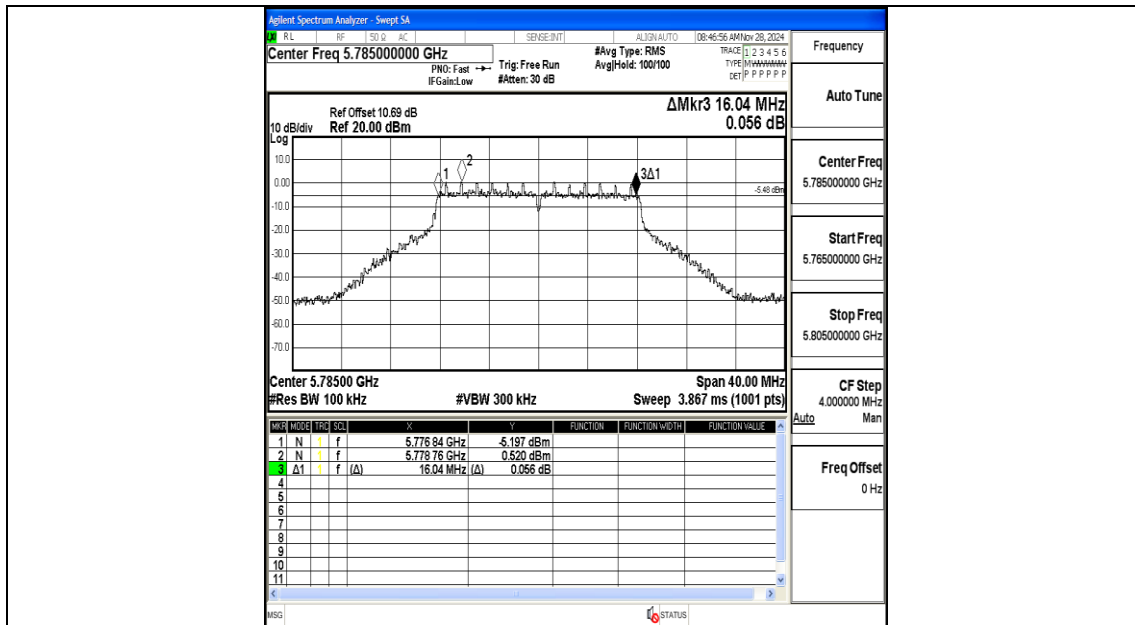
Appendix A: Min emission bandwidth

Test Result

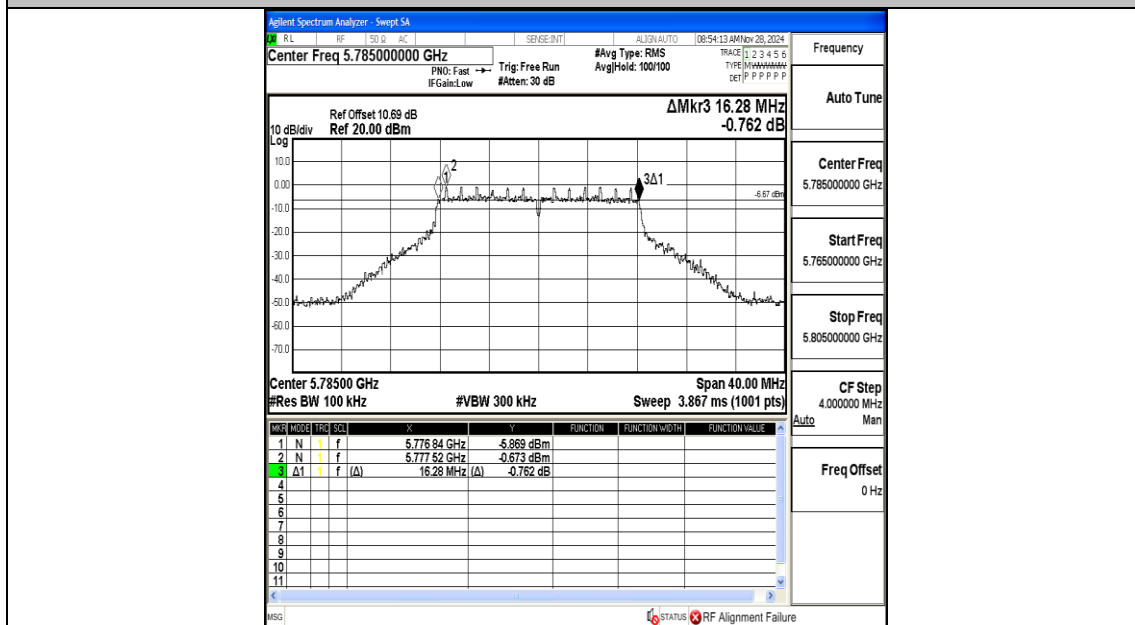
Test Mode	Antenna	Frequency [MHz]	6db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	15.880	5736.840	5752.720	0.5	PASS
11A	Ant2	5745	16.320	5736.840	5753.160	0.5	PASS
11A	Ant1	5785	16.040	5776.840	5792.880	0.5	PASS
11A	Ant2	5785	16.280	5776.840	5793.120	0.5	PASS
11A	Ant1	5825	16.320	5816.840	5833.160	0.5	PASS
11A	Ant2	5825	16.280	5816.880	5833.160	0.5	PASS
11N20MIMO	Ant1	5745	17.200	5736.200	5753.400	0.5	PASS
11N20MIMO	Ant2	5745	17.560	5736.200	5753.760	0.5	PASS
11N20MIMO	Ant1	5785	16.880	5776.240	5793.120	0.5	PASS
11N20MIMO	Ant2	5785	17.280	5776.240	5793.520	0.5	PASS
11N20MIMO	Ant1	5825	16.920	5816.480	5833.400	0.5	PASS
11N20MIMO	Ant2	5825	17.520	5816.240	5833.760	0.5	PASS
11N40MIMO	Ant1	5755	36.320	5736.840	5773.160	0.5	PASS
11N40MIMO	Ant2	5755	36.320	5736.840	5773.160	0.5	PASS
11N40MIMO	Ant1	5795	36.320	5776.840	5813.160	0.5	PASS
11N40MIMO	Ant2	5795	36.320	5776.840	5813.160	0.5	PASS
11AC20MIMO	Ant1	5745	17.200	5736.200	5753.400	0.5	PASS
11AC20MIMO	Ant2	5745	17.520	5736.240	5753.760	0.5	PASS
11AC20MIMO	Ant1	5785	17.160	5776.240	5793.400	0.5	PASS
11AC20MIMO	Ant2	5785	16.960	5776.200	5793.160	0.5	PASS
11AC20MIMO	Ant1	5825	16.680	5816.840	5833.520	0.5	PASS
11AC20MIMO	Ant2	5825	17.600	5816.200	5833.800	0.5	PASS
11AC40MIMO	Ant1	5755	36.080	5736.840	5772.920	0.5	PASS
11AC40MIMO	Ant2	5755	36.320	5736.840	5773.160	0.5	PASS
11AC40MIMO	Ant1	5795	36.320	5776.840	5813.160	0.5	PASS
11AC40MIMO	Ant2	5795	36.320	5776.840	5813.160	0.5	PASS
11AC80MIMO	Ant1	5775	72.640	5737.400	5810.040	0.5	PASS
11AC80MIMO	Ant2	5775	75.040	5737.560	5812.600	0.5	PASS
11AX20MIMO	Ant1	5745	18.600	5735.560	5754.160	0.5	PASS
11AX20MIMO	Ant2	5745	17.800	5736.000	5753.800	0.5	PASS
11AX20MIMO	Ant1	5785	18.200	5775.720	5793.920	0.5	PASS
11AX20MIMO	Ant2	5785	18.800	5775.600	5794.400	0.5	PASS
11AX20MIMO	Ant1	5825	18.600	5815.640	5834.240	0.5	PASS
11AX20MIMO	Ant2	5825	17.600	5816.280	5833.880	0.5	PASS
11AX40MIMO	Ant1	5755	37.680	5736.120	5773.800	0.5	PASS
11AX40MIMO	Ant2	5755	37.760	5736.120	5773.880	0.5	PASS
11AX40MIMO	Ant1	5795	37.840	5775.960	5813.800	0.5	PASS
11AX40MIMO	Ant2	5795	37.760	5776.120	5813.880	0.5	PASS
11AX80MIMO	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS
11AX80MIMO	Ant2	5775	75.200	5737.400	5812.600	0.5	PASS

Test Graphs

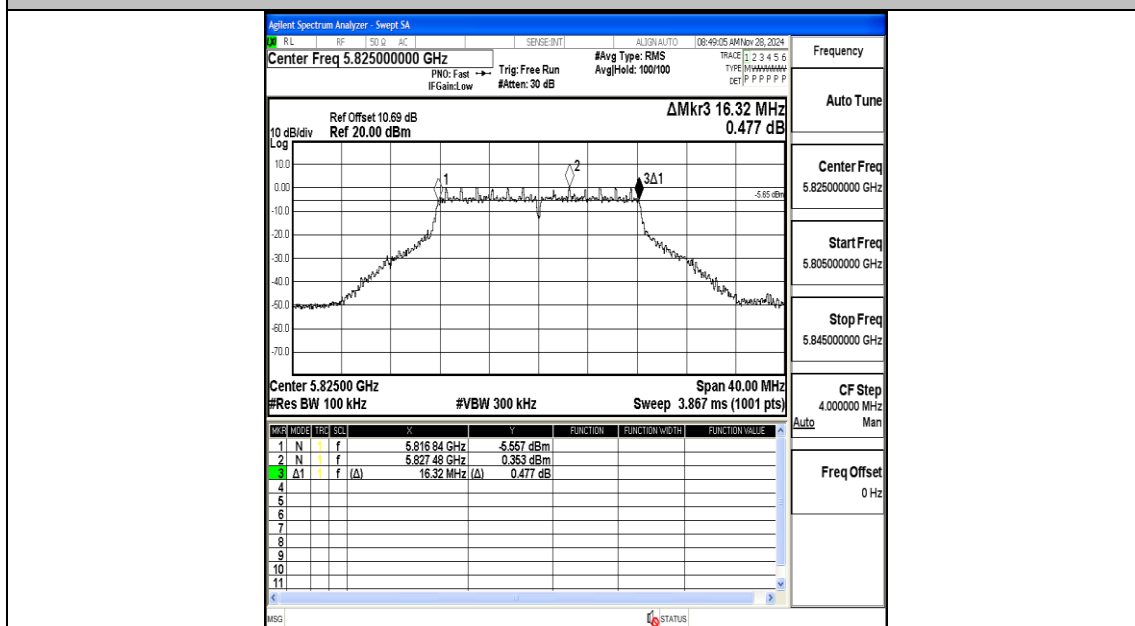




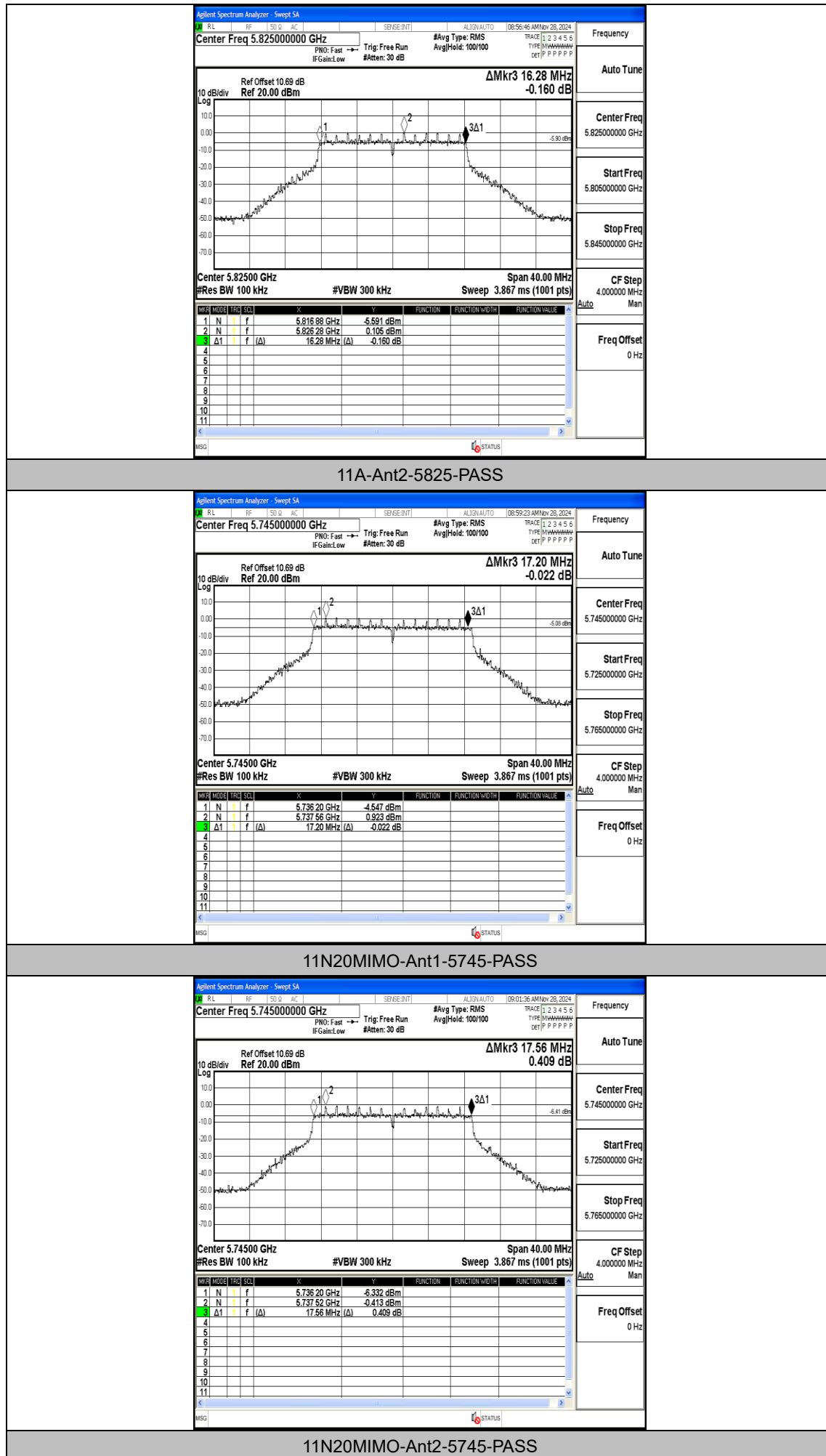
11A-Ant1-5785-PASS

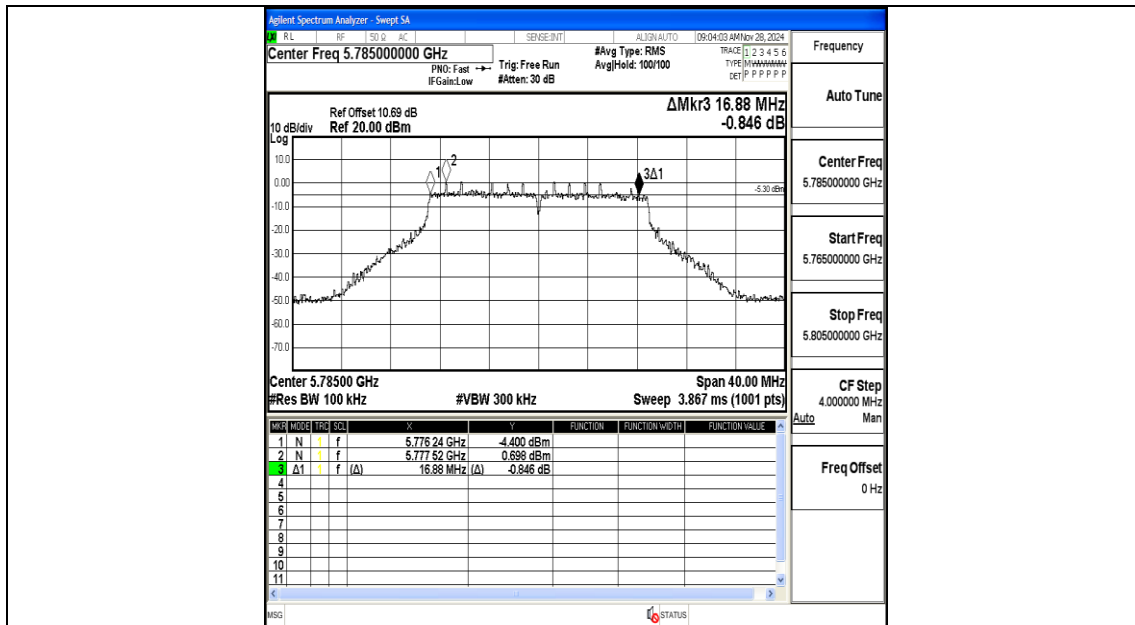


11A-Ant2-5785-PASS

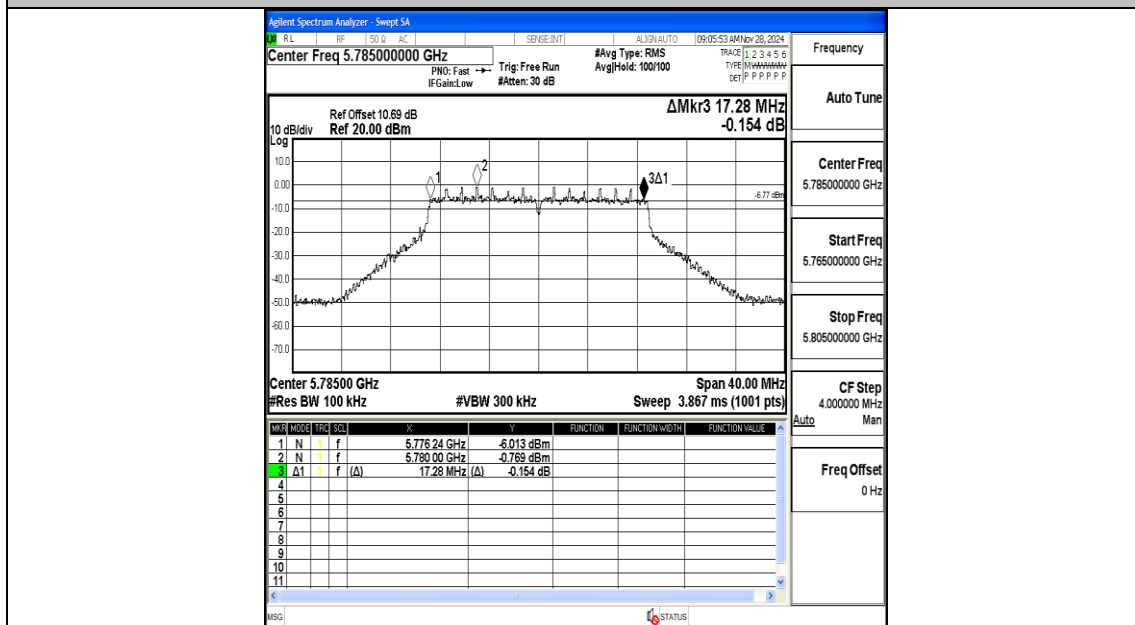


11A-Ant1-5825-PASS

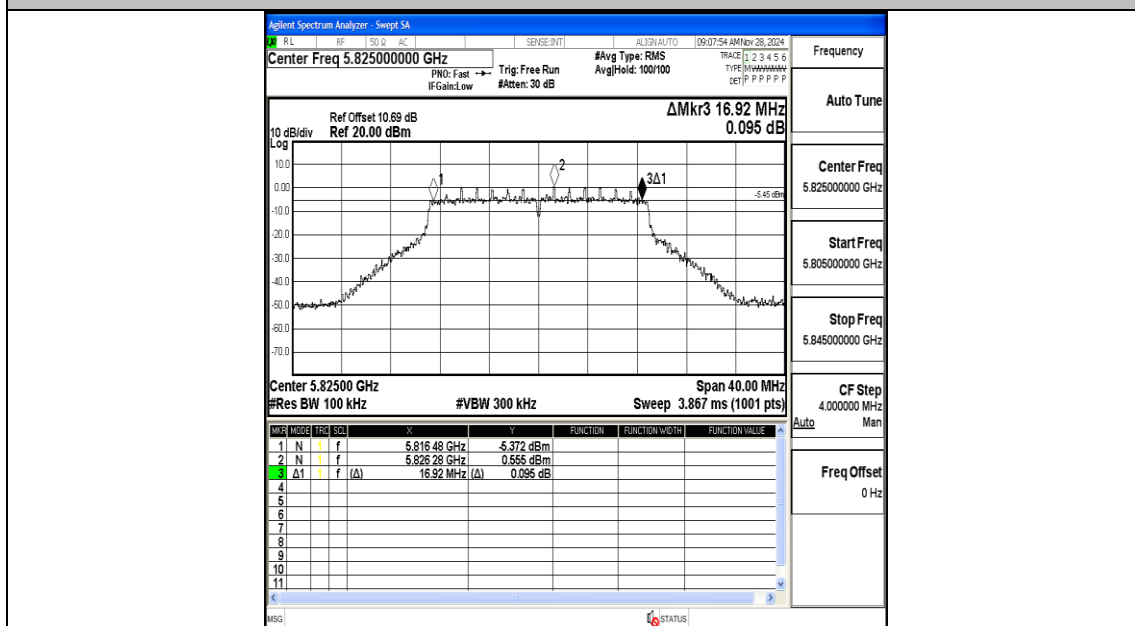




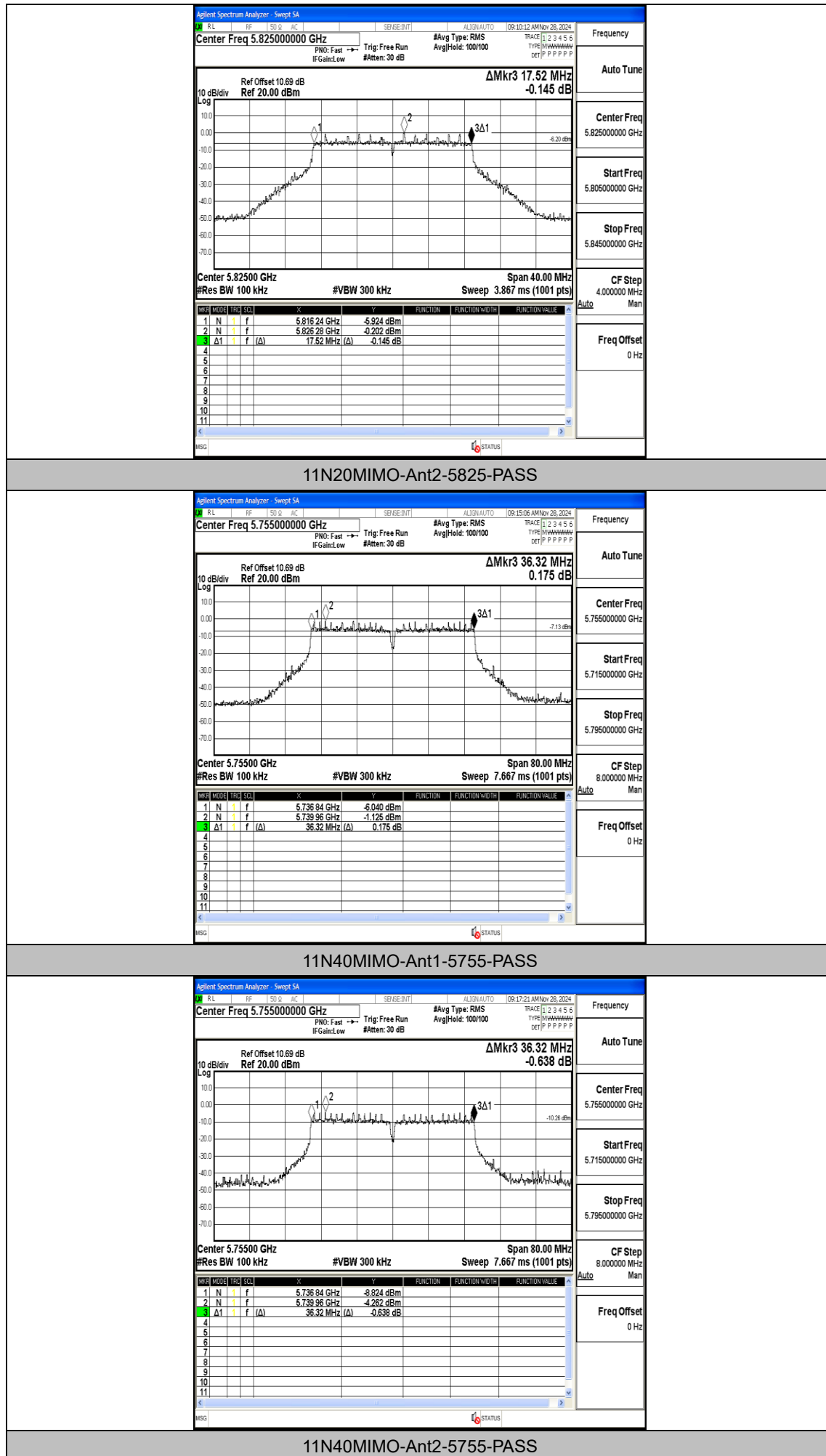
11N20MIMO-Ant1-5785-PASS

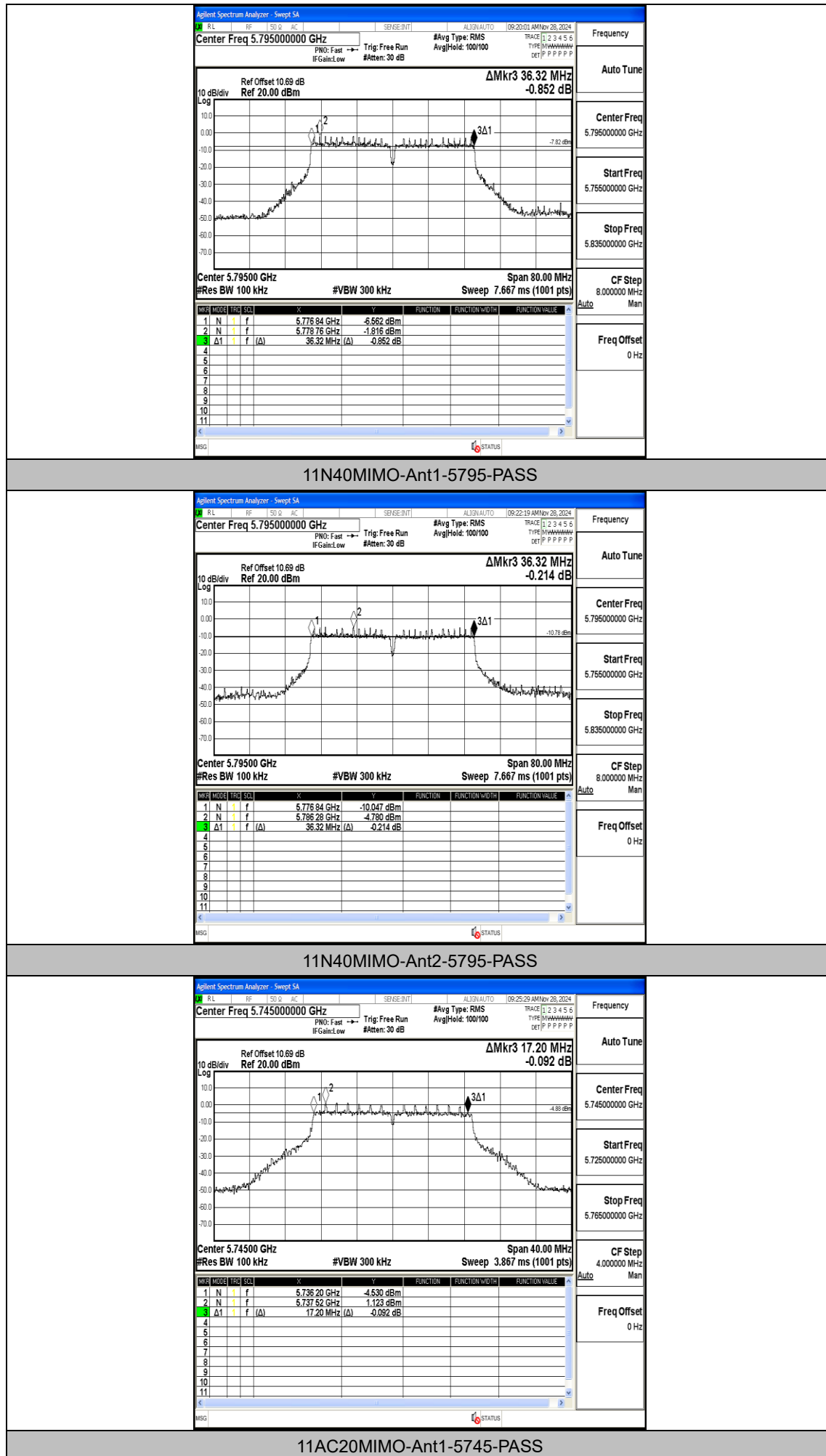


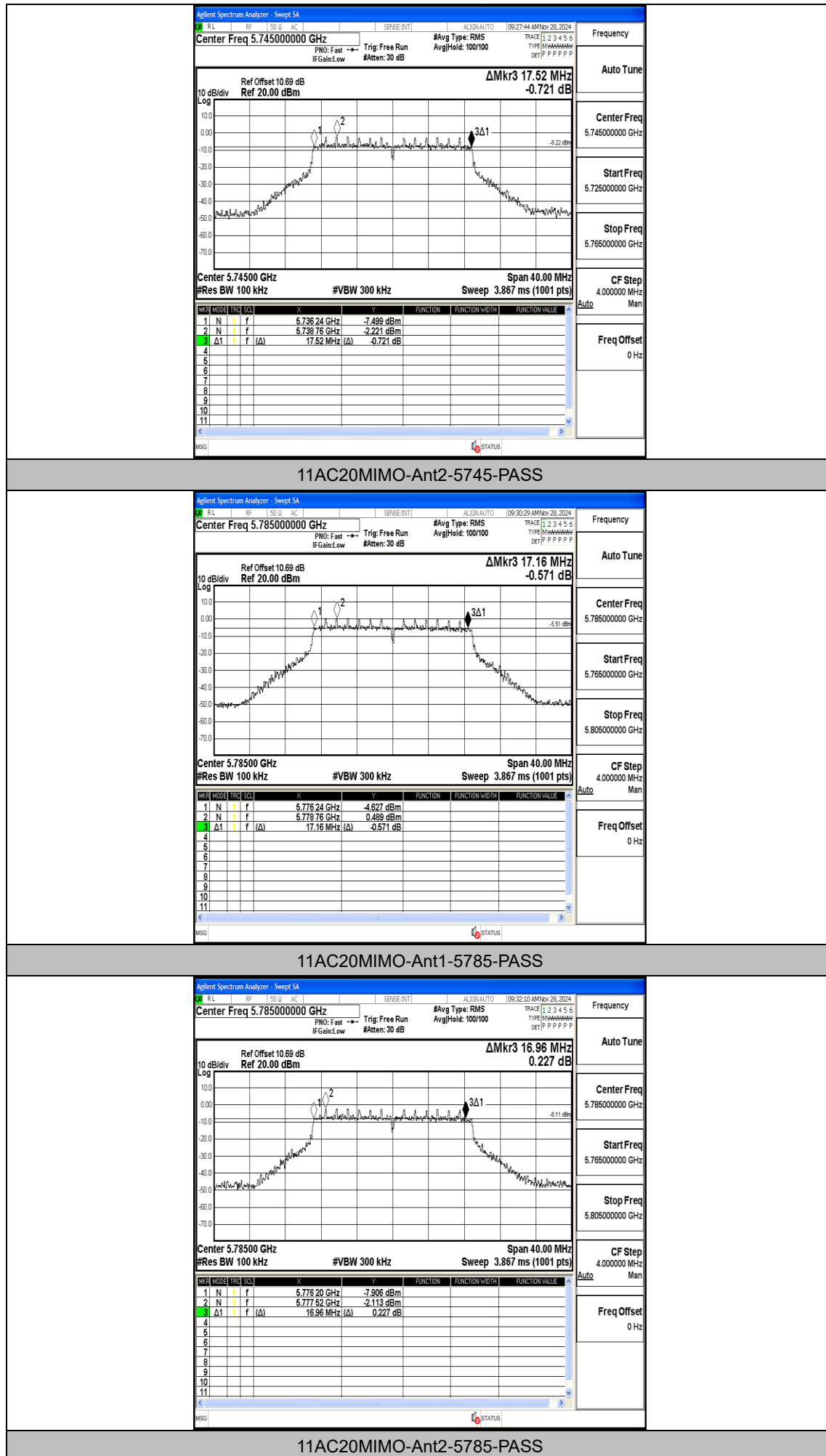
11N20MIMO-Ant2-5785-PASS

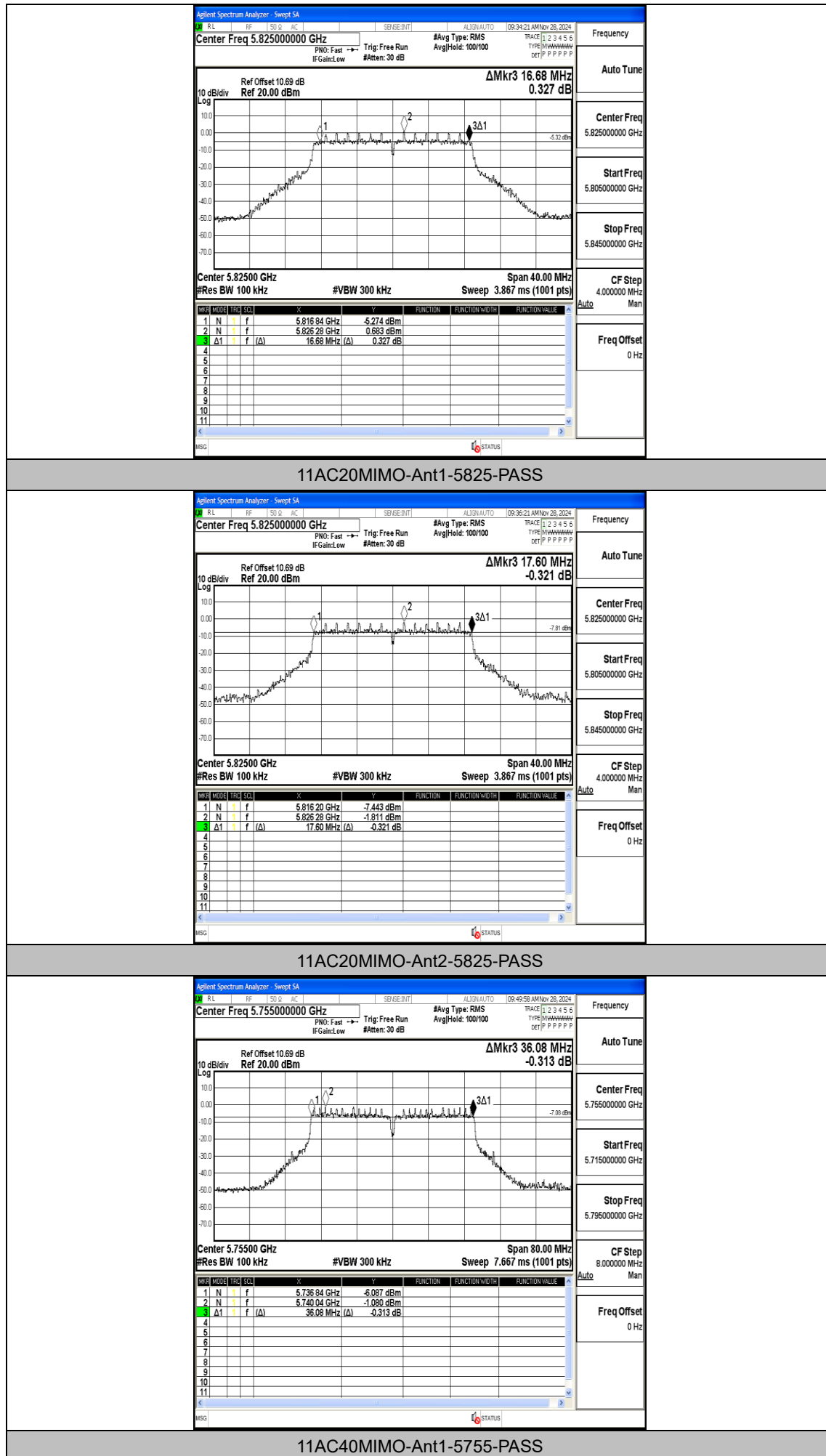


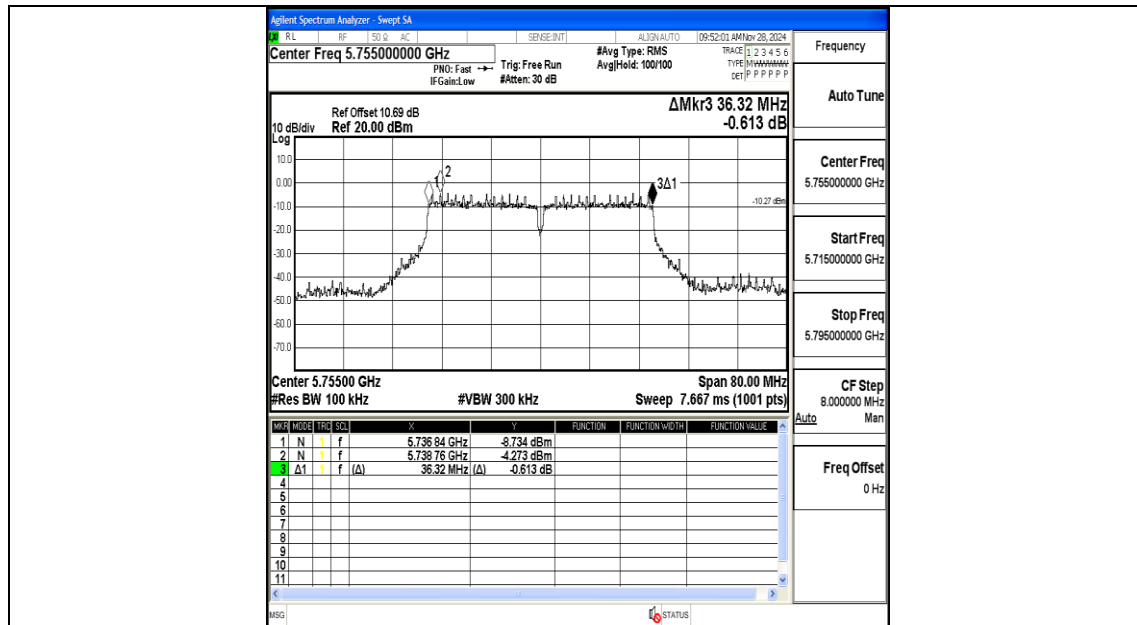
11N20MIMO-Ant1-5825-PASS



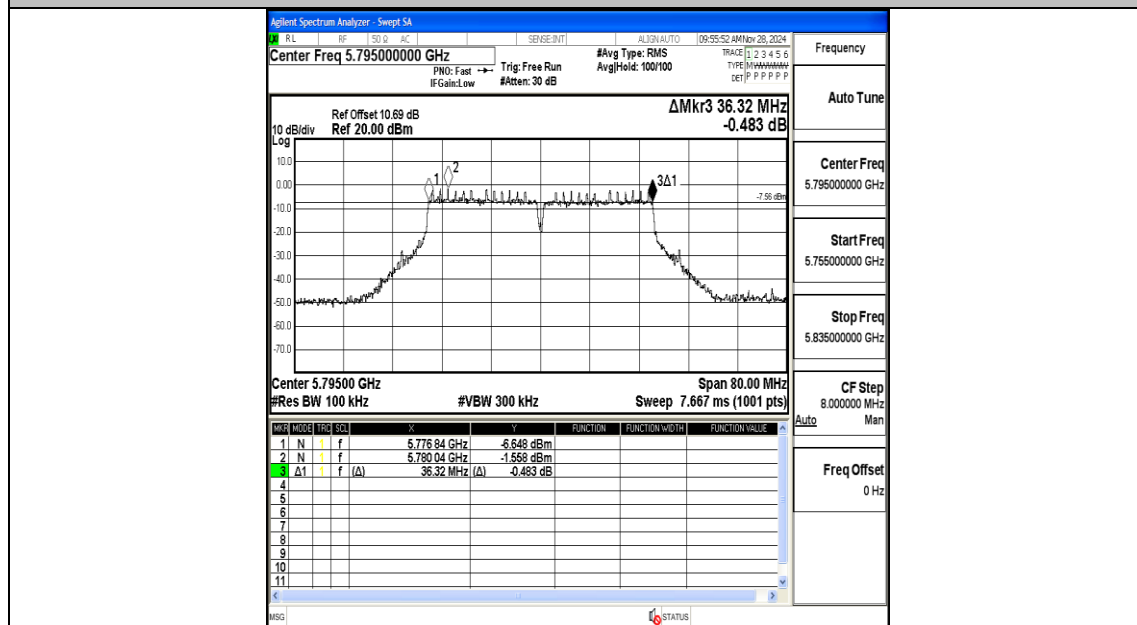




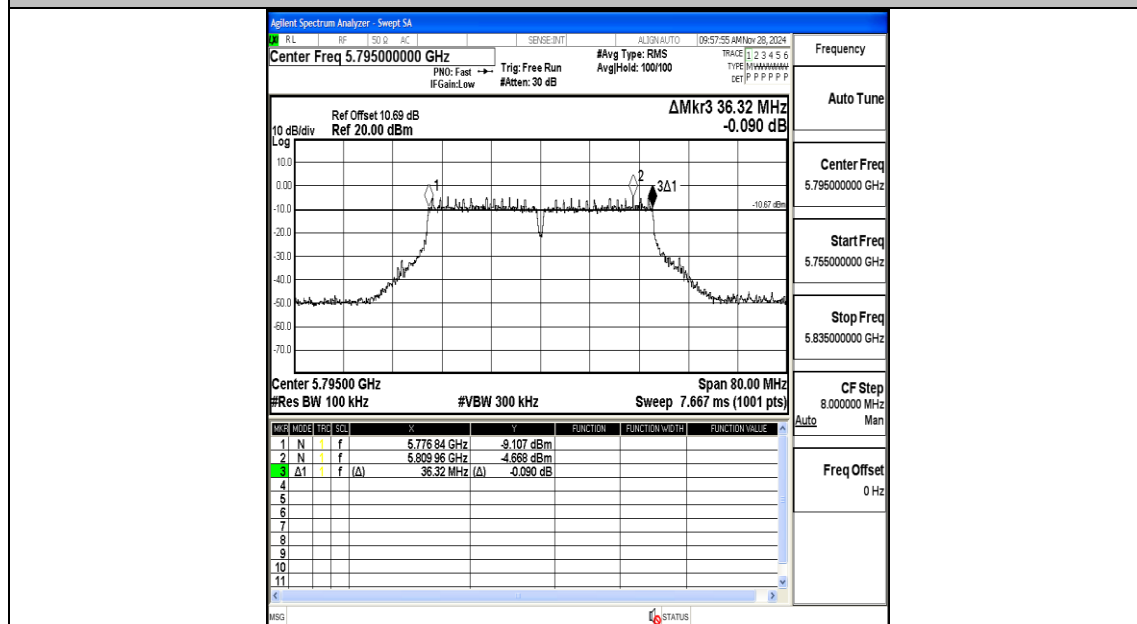




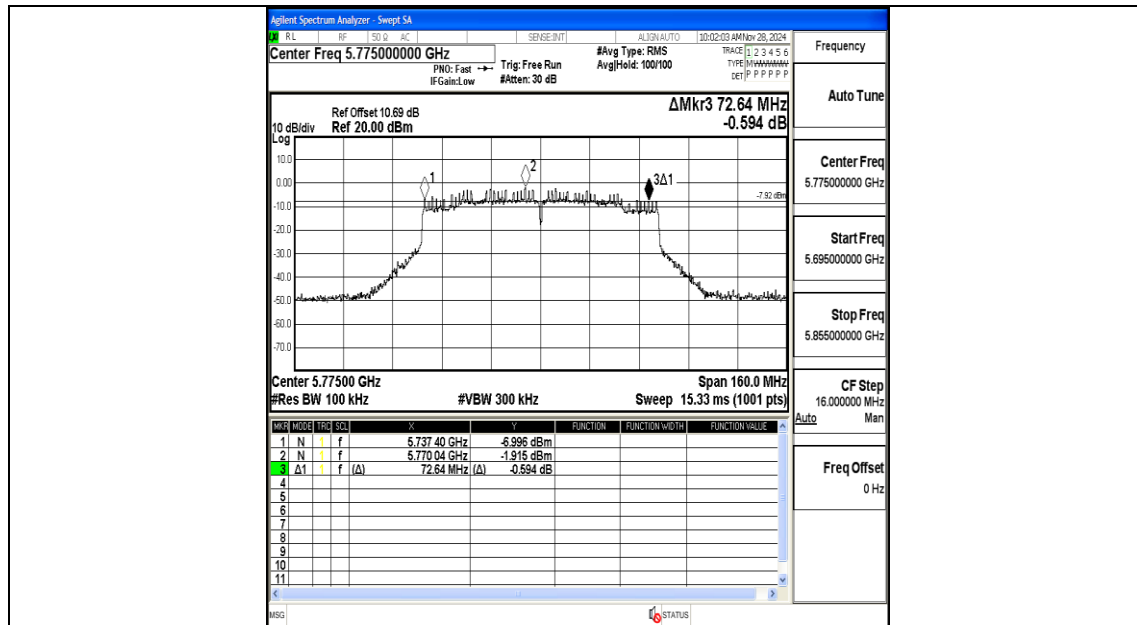
11AC40MIMO-Ant2-5755-PASS



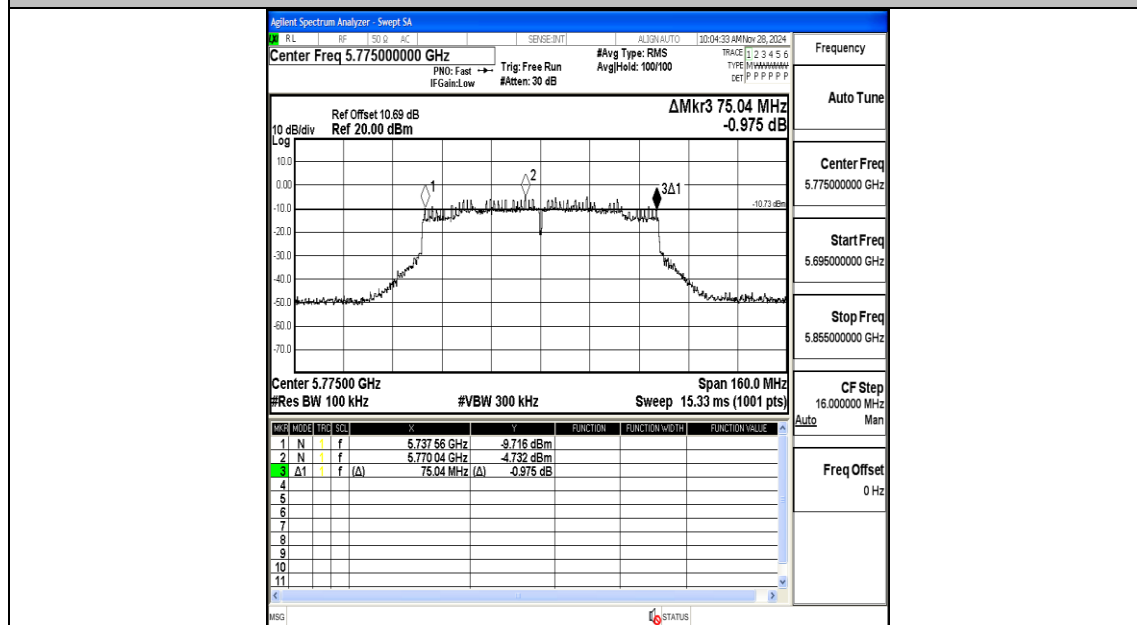
11AC40MIMO-Ant1-5795-PASS



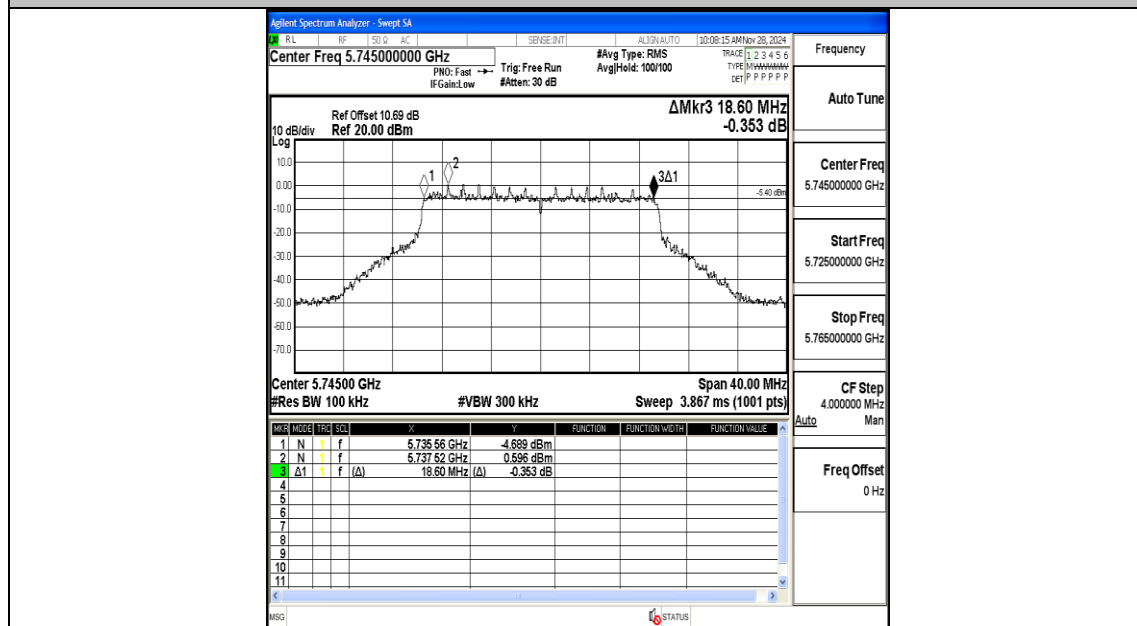
11AC40MIMO-Ant2-5795-PASS



11AC80MIMO-Ant1-5775-PASS

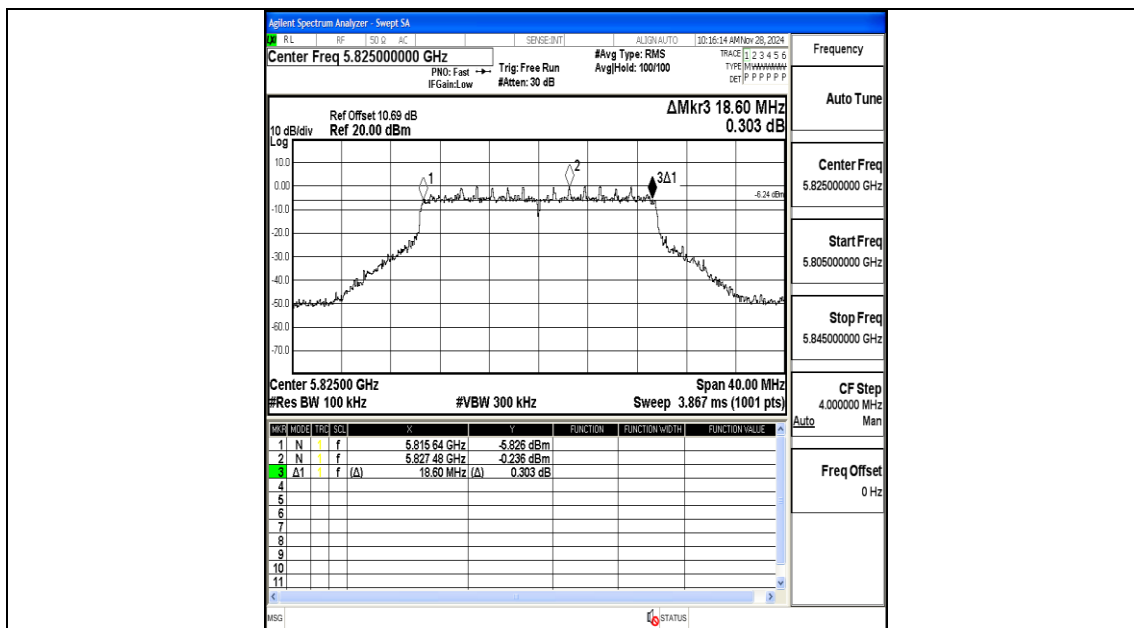


11AC80MIMO-Ant2-5775-PASS

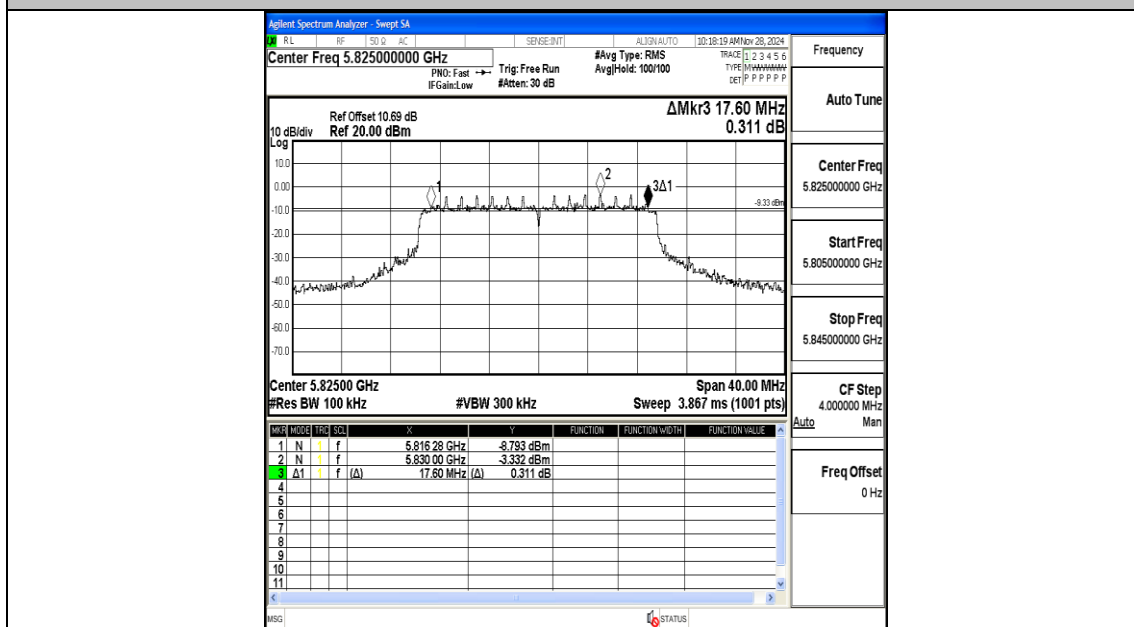


11AX20MIMO-Ant1-5745-PASS

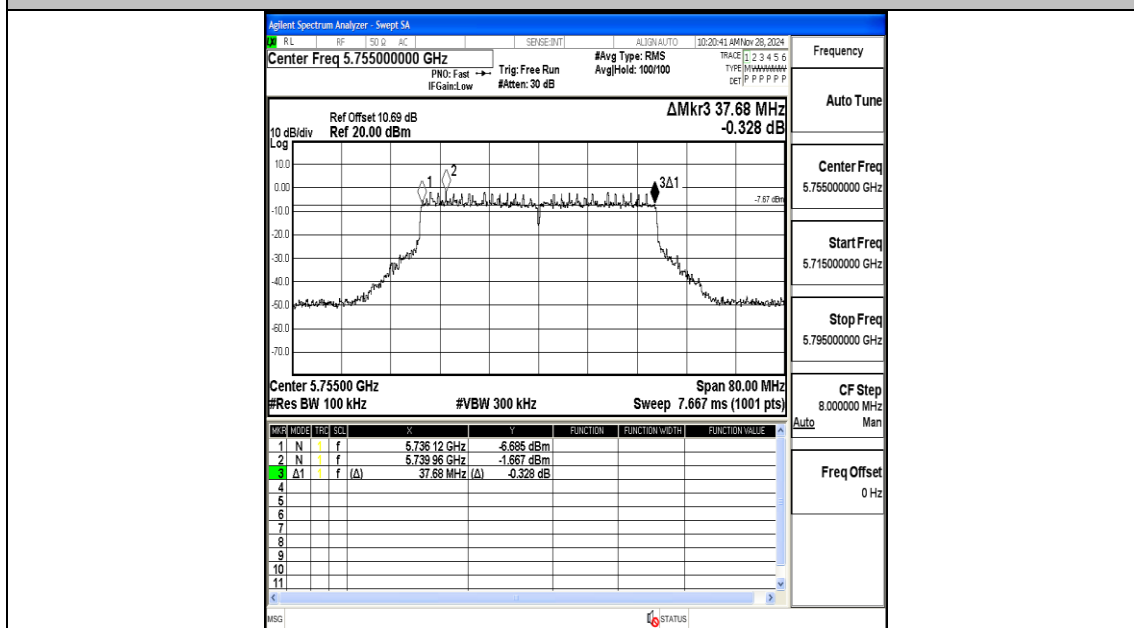




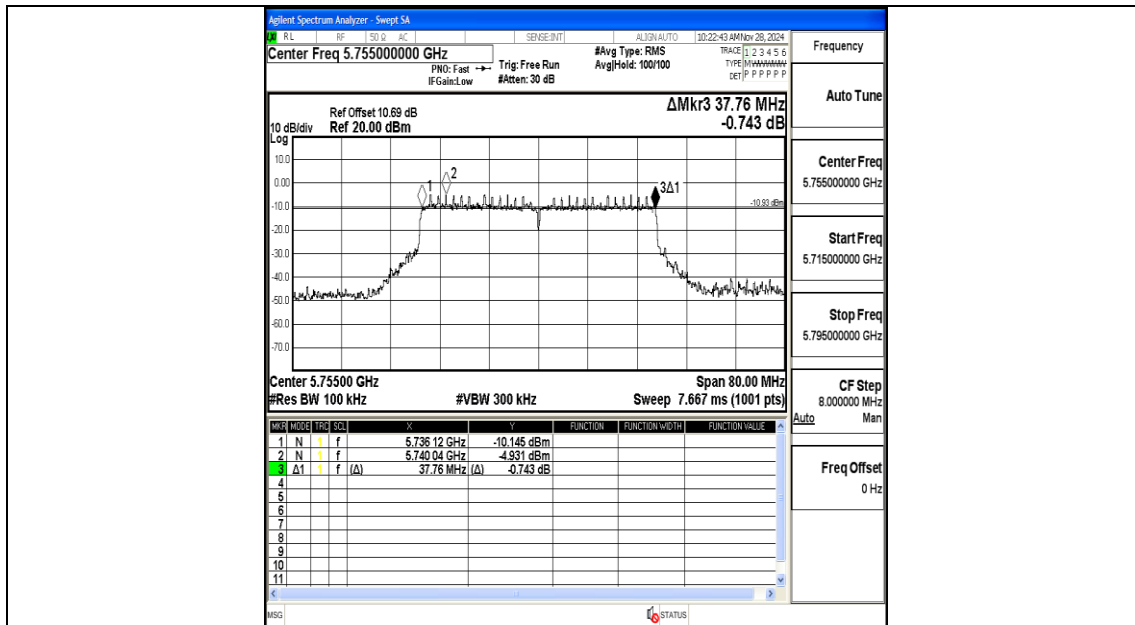
11AX20MIMO-Ant1-5825-PASS



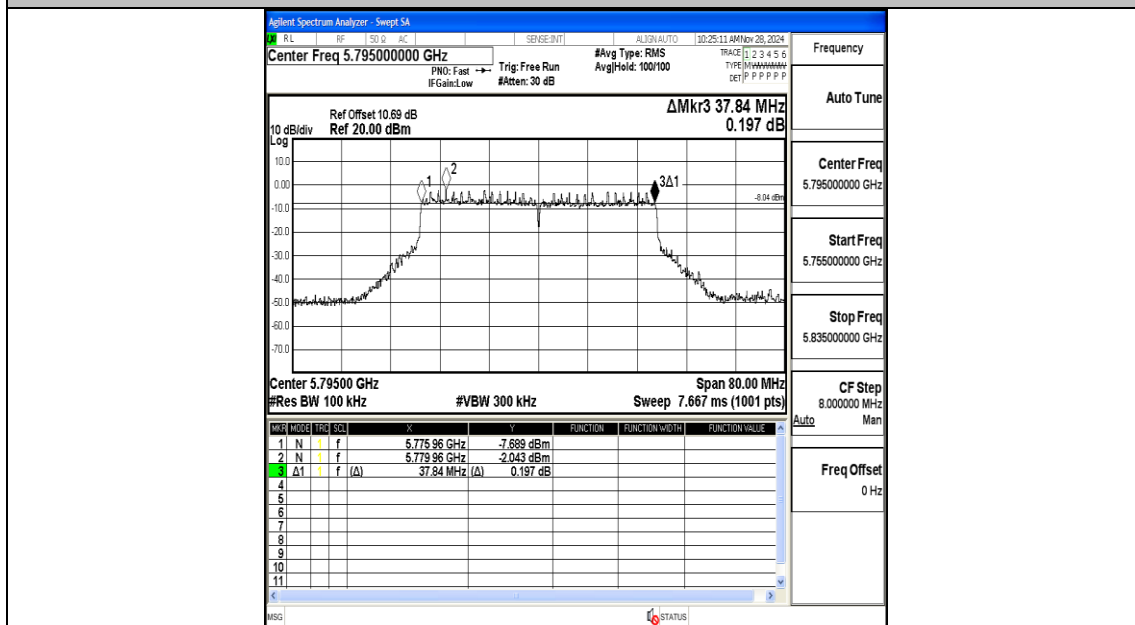
11AX20MIMO-Ant2-5825-PASS



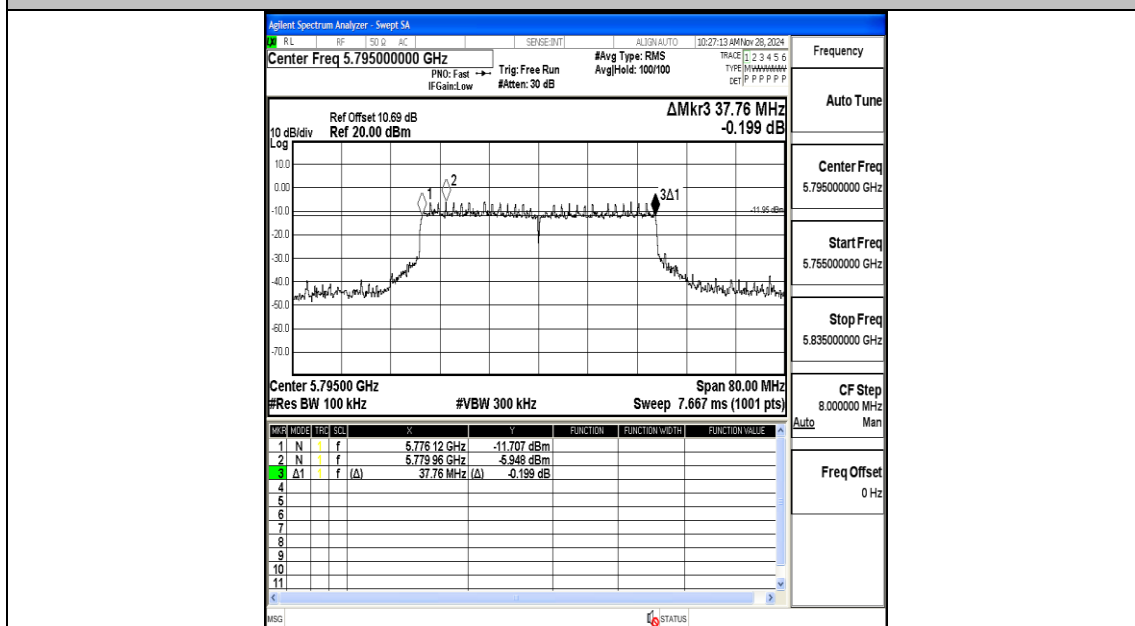
11AX40MIMO-Ant1-5755-PASS



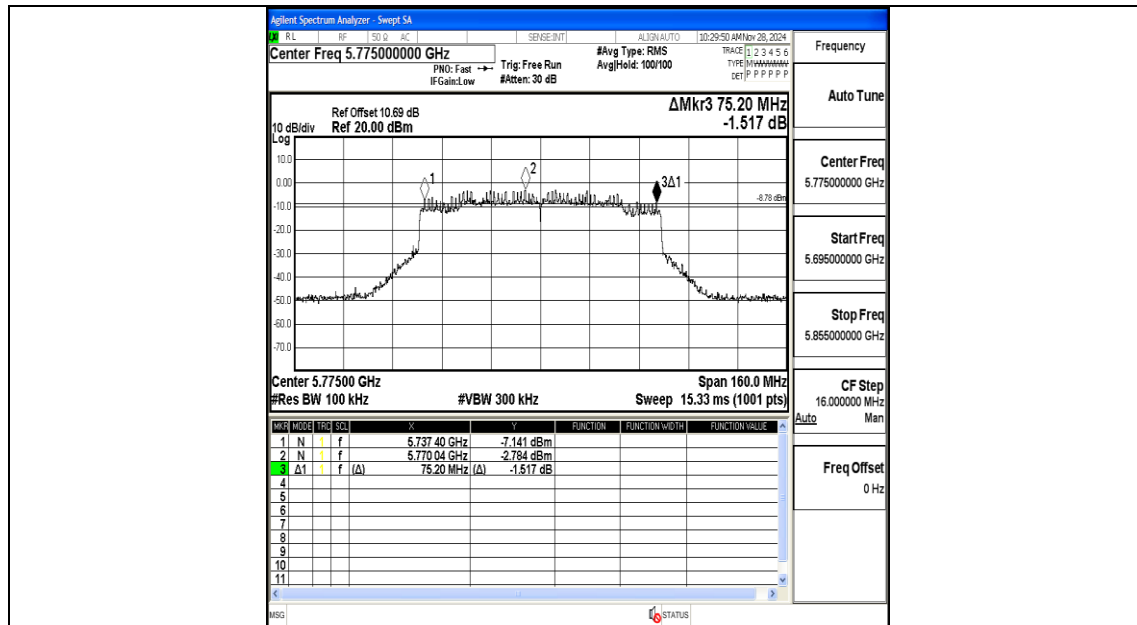
11AX40MIMO-Ant2-5755-PASS



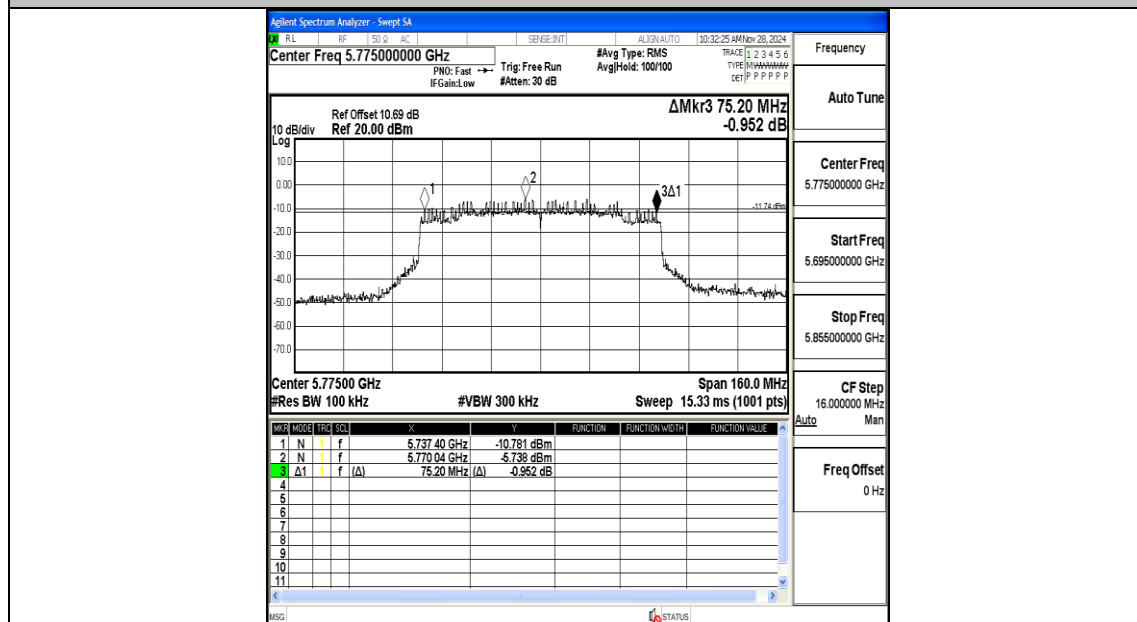
11AX40MIMO-Ant1-5795-PASS



11AX40MIMO-Ant2-5795-PASS



11AX80MIMO-Ant1-5775-PASS



11AX80MIMO-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	11.44	≤30.00	PASS
11A	Ant2	5745	9.97	≤30.00	PASS
11A	Ant1	5785	11.03	≤30.00	PASS
11A	Ant2	5785	9.99	≤30.00	PASS
11A	Ant1	5825	11.39	≤30.00	PASS
11A	Ant2	5825	10.86	≤30.00	PASS
11N20MIMO	Ant1	5745	11.47	≤30.00	PASS
11N20MIMO	Ant2	5745	10.13	≤30.00	PASS
11N20MIMO	total	5745	13.86	≤30.00	PASS
11N20MIMO	Ant1	5785	11.14	≤30.00	PASS
11N20MIMO	Ant2	5785	9.98	≤30.00	PASS
11N20MIMO	total	5785	13.61	≤30.00	PASS
11N20MIMO	Ant1	5825	11.23	≤30.00	PASS
11N20MIMO	Ant2	5825	10.71	≤30.00	PASS
11N20MIMO	total	5825	13.99	≤30.00	PASS
11N40MIMO	Ant1	5755	12.79	≤30.00	PASS
11N40MIMO	Ant2	5755	9.50	≤30.00	PASS
11N40MIMO	total	5755	14.46	≤30.00	PASS
11N40MIMO	Ant1	5795	12.24	≤30.00	PASS
11N40MIMO	Ant2	5795	9.28	≤30.00	PASS
11N40MIMO	total	5795	14.02	≤30.00	PASS
11AC20MIMO	Ant1	5745	11.50	≤30.00	PASS
11AC20MIMO	Ant2	5745	8.37	≤30.00	PASS
11AC20MIMO	total	5745	13.22	≤30.00	PASS
11AC20MIMO	Ant1	5785	11.18	≤30.00	PASS
11AC20MIMO	Ant2	5785	8.41	≤30.00	PASS
11AC20MIMO	total	5785	13.02	≤30.00	PASS
11AC20MIMO	Ant1	5825	11.37	≤30.00	PASS
11AC20MIMO	Ant2	5825	9.10	≤30.00	PASS
11AC20MIMO	total	5825	13.39	≤30.00	PASS
11AC40MIMO	Ant1	5755	12.69	≤30.00	PASS
11AC40MIMO	Ant2	5755	9.52	≤30.00	PASS
11AC40MIMO	total	5755	14.40	≤30.00	PASS
11AC40MIMO	Ant1	5795	12.34	≤30.00	PASS
11AC40MIMO	Ant2	5795	9.20	≤30.00	PASS
11AC40MIMO	total	5795	14.06	≤30.00	PASS
11AC80MIMO	Ant1	5775	13.26	≤30.00	PASS
11AC80MIMO	Ant2	5775	10.35	≤30.00	PASS
11AC80MIMO	total	5775	15.05	≤30.00	PASS
11AX20MIMO	Ant1	5745	11.17	≤30.00	PASS

11AX20MIMO	Ant2	5745	10.00	≤30.00	PASS
11AX20MIMO	total	5745	13.63	≤30.00	PASS
11AX20MIMO	Ant1	5785	10.83	≤30.00	PASS
11AX20MIMO	Ant2	5785	8.12	≤30.00	PASS
11AX20MIMO	total	5785	12.69	≤30.00	PASS
11AX20MIMO	Ant1	5825	10.92	≤30.00	PASS
11AX20MIMO	Ant2	5825	8.39	≤30.00	PASS
11AX20MIMO	total	5825	12.85	≤30.00	PASS
11AX40MIMO	Ant1	5755	12.57	≤30.00	PASS
11AX40MIMO	Ant2	5755	8.92	≤30.00	PASS
11AX40MIMO	total	5755	14.13	≤30.00	PASS
11AX40MIMO	Ant1	5795	12.13	≤30.00	PASS
11AX40MIMO	Ant2	5795	8.30	≤30.00	PASS
11AX40MIMO	total	5795	13.63	≤30.00	PASS
11AX80MIMO	Ant1	5775	13.00	≤30.00	PASS
11AX80MIMO	Ant2	5775	9.90	≤30.00	PASS
11AX80MIMO	total	5775	14.73	≤30.00	PASS

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

Appendix C: Maximum power spectral density

Test Result

Frequency [MHz]	Test Mode	Antenna	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
5745	11A	Ant1	-5.13	≤30.00	PASS
5745	11A	Ant2	-6.28	≤30.00	PASS
5785	11A	Ant1	-5.29	≤30.00	PASS
5785	11A	Ant2	-6.70	≤30.00	PASS
5825	11A	Ant1	-5.45	≤30.00	PASS
5825	11A	Ant2	-6.12	≤30.00	PASS
5745	11N20MIMO	Ant1	-4.85	≤30.00	PASS
5745	11N20MIMO	Ant2	-6.61	≤30.00	PASS
5745	11N20MIMO	total	0.17	≤30.00	PASS
5785	11N20MIMO	Ant1	-5.62	≤30.00	PASS
5785	11N20MIMO	Ant2	-6.60	≤30.00	PASS
5785	11N20MIMO	total	-0.27	≤30.00	PASS
5825	11N20MIMO	Ant1	-5.74	≤30.00	PASS
5825	11N20MIMO	Ant2	-6.48	≤30.00	PASS
5825	11N20MIMO	total	-0.28	≤30.00	PASS
5755	11N40MIMO	Ant1	-7.19	≤30.00	PASS
5755	11N40MIMO	Ant2	-10.37	≤30.00	PASS
5755	11N40MIMO	total	-2.66	≤30.00	PASS
5795	11N40MIMO	Ant1	-7.71	≤30.00	PASS
5795	11N40MIMO	Ant2	-10.54	≤30.00	PASS
5795	11N40MIMO	total	-3.07	≤30.00	PASS
5745	11AC20MIMO	Ant1	-5.16	≤30.00	PASS
5745	11AC20MIMO	Ant2	-8.38	≤30.00	PASS
5745	11AC20MIMO	total	-0.30	≤30.00	PASS
5785	11AC20MIMO	Ant1	-5.74	≤30.00	PASS
5785	11AC20MIMO	Ant2	-8.45	≤30.00	PASS
5785	11AC20MIMO	total	-0.71	≤30.00	PASS
5825	11AC20MIMO	Ant1	-5.40	≤30.00	PASS
5825	11AC20MIMO	Ant2	-7.41	≤30.00	PASS
5825	11AC20MIMO	total	-0.03	≤30.00	PASS
5755	11AC40MIMO	Ant1	-7.38	≤30.00	PASS
5755	11AC40MIMO	Ant2	-10.23	≤30.00	PASS
5755	11AC40MIMO	total	-2.25	≤30.00	PASS
5795	11AC40MIMO	Ant1	-7.52	≤30.00	PASS
5795	11AC40MIMO	Ant2	-10.73	≤30.00	PASS
5795	11AC40MIMO	total	-2.56	≤30.00	PASS
5775	11AC80MIMO	Ant1	-8.73	≤30.00	PASS
5775	11AC80MIMO	Ant2	-10.55	≤30.00	PASS
5775	11AC80MIMO	total	-3.20	≤30.00	PASS
5745	11AX20MIMO	Ant1	-5.38	≤30.00	PASS
5745	11AX20MIMO	Ant2	-7.25	≤30.00	PASS

5745	11AX20MIMO	total	-0.27	≤30.00	PASS
5785	11AX20MIMO	Ant1	-5.65	≤30.00	PASS
5785	11AX20MIMO	Ant2	-8.88	≤30.00	PASS
5785	11AX20MIMO	total	-1.12	≤30.00	PASS
5825	11AX20MIMO	Ant1	-5.82	≤30.00	PASS
5825	11AX20MIMO	Ant2	-8.17	≤30.00	PASS
5825	11AX20MIMO	total	-0.98	≤30.00	PASS
5755	11AX40MIMO	Ant1	-7.32	≤30.00	PASS
5755	11AX40MIMO	Ant2	-10.71	≤30.00	PASS
5755	11AX40MIMO	total	-2.34	≤30.00	PASS
5795	11AX40MIMO	Ant1	-7.61	≤30.00	PASS
5795	11AX40MIMO	Ant2	-11.90	≤30.00	PASS
5795	11AX40MIMO	total	-2.90	≤30.00	PASS
5775	11AX80MIMO	Ant1	-9.20	≤30.00	PASS
5775	11AX80MIMO	Ant2	-12.76	≤30.00	PASS
5775	11AX80MIMO	total	-4.27	≤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.