

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

Product Name: OTT+speaker

Trade Mark: /

Test Model: SK410D

FCC ID: 2AOVU-SK410D

Environmental Conditions

Temperature:	24.2℃
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: Min emission bandwidth

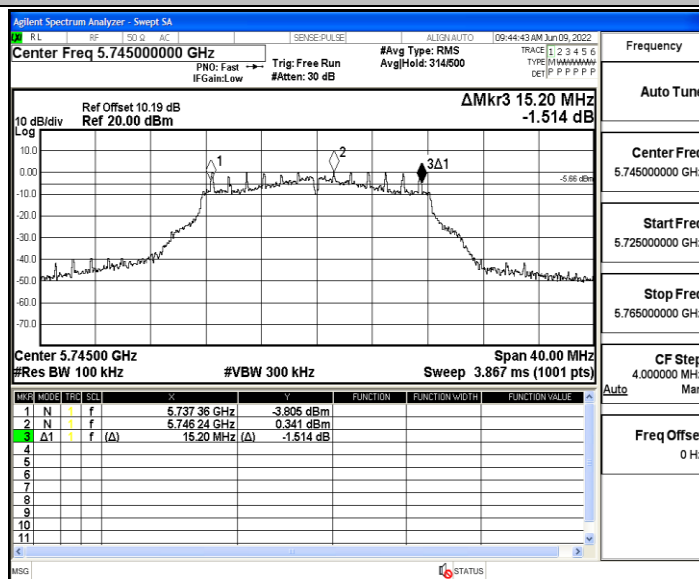
Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.200	5737.360	5752.560	0.5	PASS
	Ant2	5745	12.640	5738.600	5751.240	0.5	PASS
	Ant1	5785	15.200	5777.360	5792.560	0.5	PASS
	Ant2	5785	15.160	5777.400	5792.560	0.5	PASS
	Ant1	5825	15.160	5817.400	5832.560	0.5	PASS
	Ant2	5825	15.080	5817.440	5832.520	0.5	PASS
11N20MIMO	Ant1	5745	17.680	5736.120	5753.800	0.5	PASS
	Ant2	5745	17.720	5736.080	5753.800	0.5	PASS
	Ant1	5785	17.680	5776.120	5793.800	0.5	PASS
	Ant2	5785	17.680	5776.120	5793.800	0.5	PASS
	Ant1	5825	17.640	5816.160	5833.800	0.5	PASS
	Ant2	5825	17.600	5816.160	5833.760	0.5	PASS
11N40MIMO	Ant1	5755	36.480	5736.760	5773.240	0.5	PASS
	Ant2	5755	36.400	5736.760	5773.160	0.5	PASS
	Ant1	5795	36.400	5776.760	5813.160	0.5	PASS
	Ant2	5795	36.400	5776.760	5813.160	0.5	PASS
11AC20MIMO	Ant1	5745	17.680	5736.120	5753.800	0.5	PASS
	Ant2	5745	17.680	5736.120	5753.800	0.5	PASS
	Ant1	5785	17.640	5776.120	5793.760	0.5	PASS
	Ant2	5785	17.680	5776.120	5793.800	0.5	PASS
	Ant1	5825	17.640	5816.160	5833.800	0.5	PASS
	Ant2	5825	17.640	5816.160	5833.800	0.5	PASS
11AC40MIMO	Ant1	5755	36.400	5736.760	5773.160	0.5	PASS

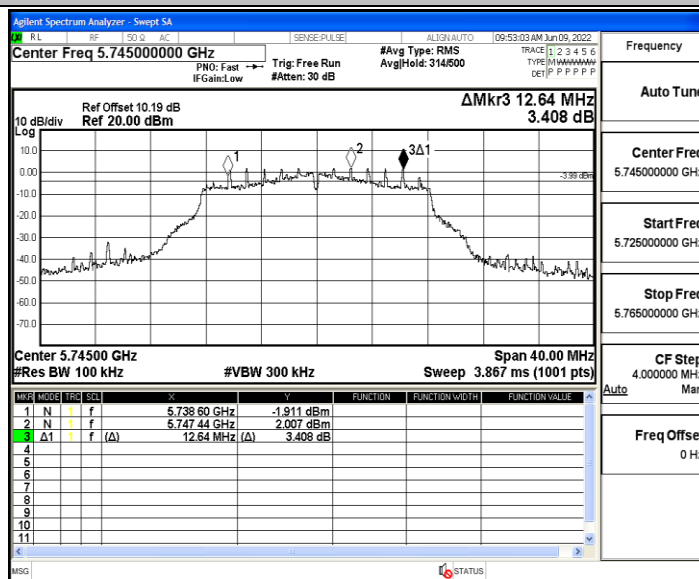
	Ant2	5755	36.400	5736.760	5773.160	0.5	PASS
	Ant1	5795	36.400	5776.760	5813.160	0.5	PASS
	Ant2	5795	36.160	5777.000	5813.160	0.5	PASS
11AC80MIMO	Ant1	5775	76.480	5736.760	5813.240	0.5	PASS
	Ant2	5775	76.320	5736.920	5813.240	0.5	PASS
11AX20MIMO	Ant1	5745	19.040	5735.400	5754.440	0.5	PASS
	Ant2	5745	18.920	5735.480	5754.400	0.5	PASS
	Ant1	5785	19.000	5775.440	5794.440	0.5	PASS
	Ant2	5785	18.960	5775.520	5794.480	0.5	PASS
	Ant1	5825	19.000	5815.440	5834.440	0.5	PASS
	Ant2	5825	19.040	5815.440	5834.480	0.5	PASS
11AX40MIMO	Ant1	5755	37.760	5736.040	5773.800	0.5	PASS
	Ant2	5755	37.760	5736.120	5773.880	0.5	PASS
	Ant1	5795	37.360	5776.120	5813.480	0.5	PASS
	Ant2	5795	37.520	5776.200	5813.720	0.5	PASS
11AX80MIMO	Ant1	5775	77.600	5736.120	5813.720	0.5	PASS
	Ant2	5775	76.960	5736.920	5813.880	0.5	PASS

Test Graphs

11A_Ant1_5745



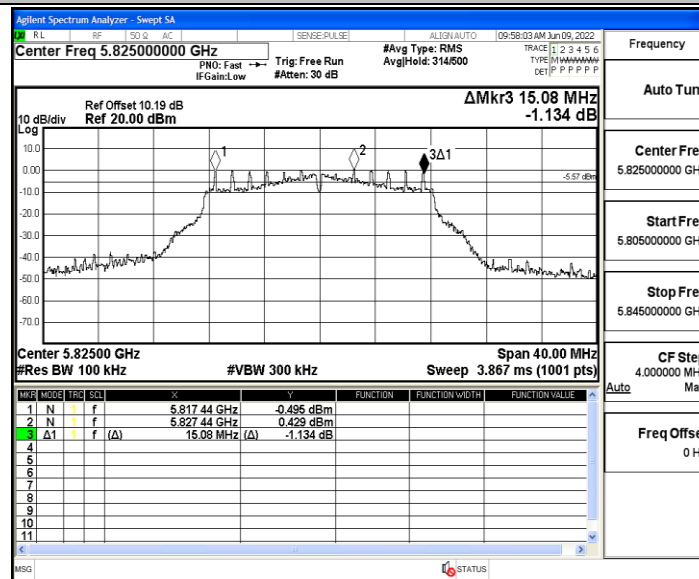
11A_Ant2_5745



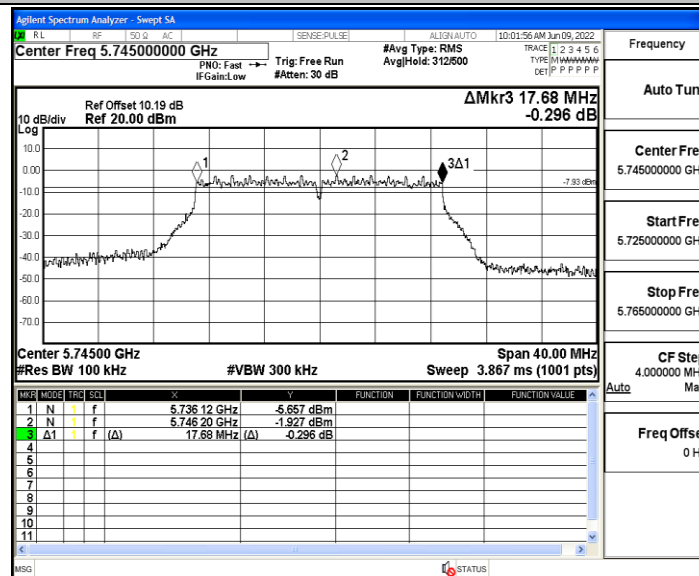
11A_Ant1_5785



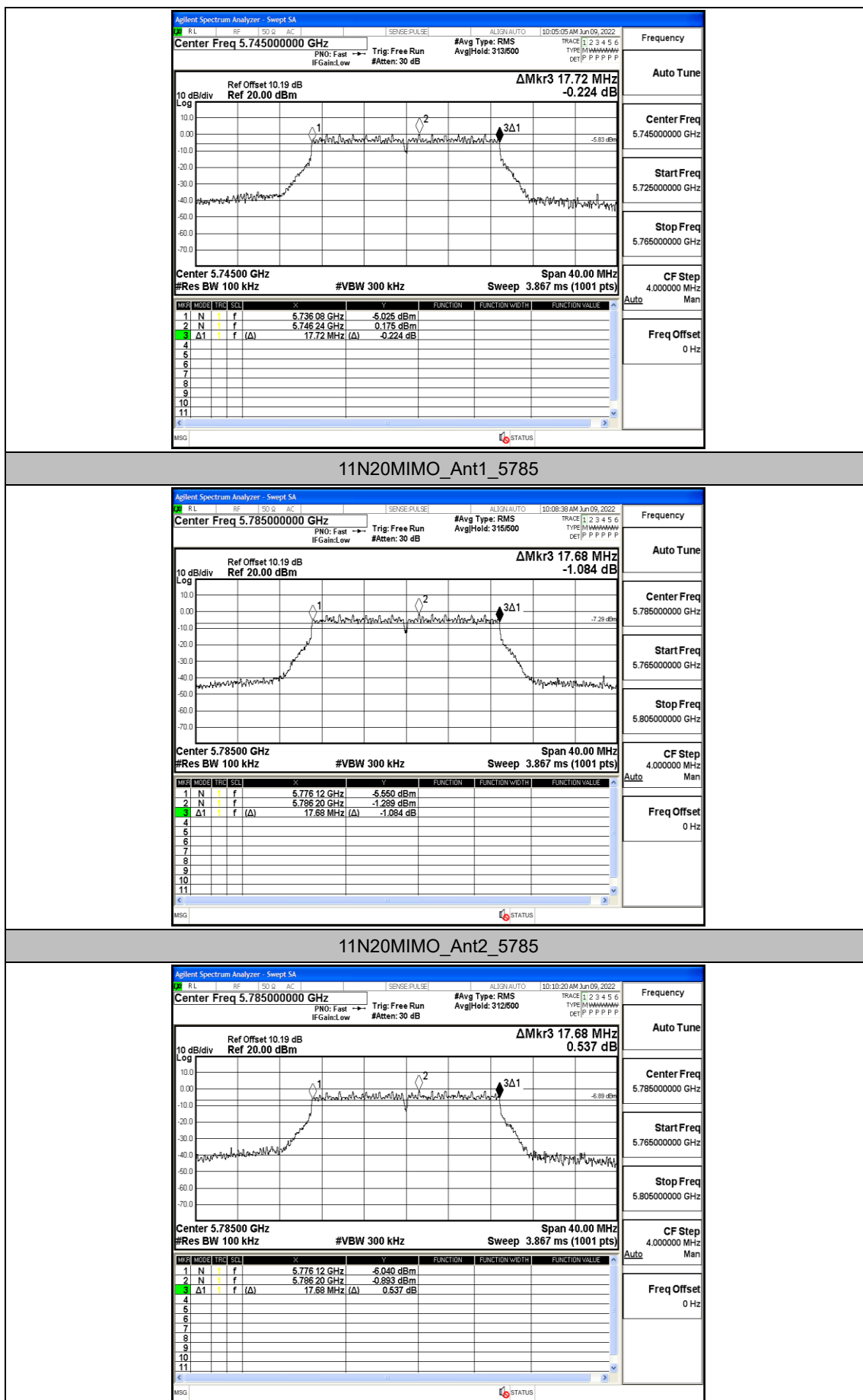
11A_Ant2_5825



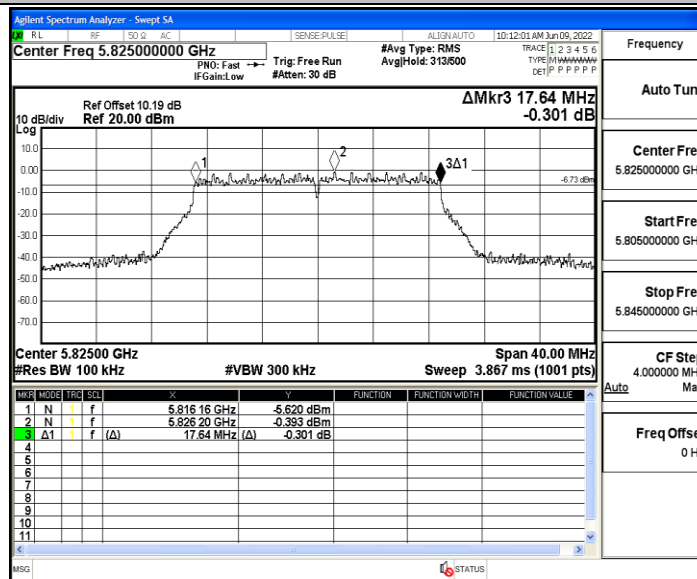
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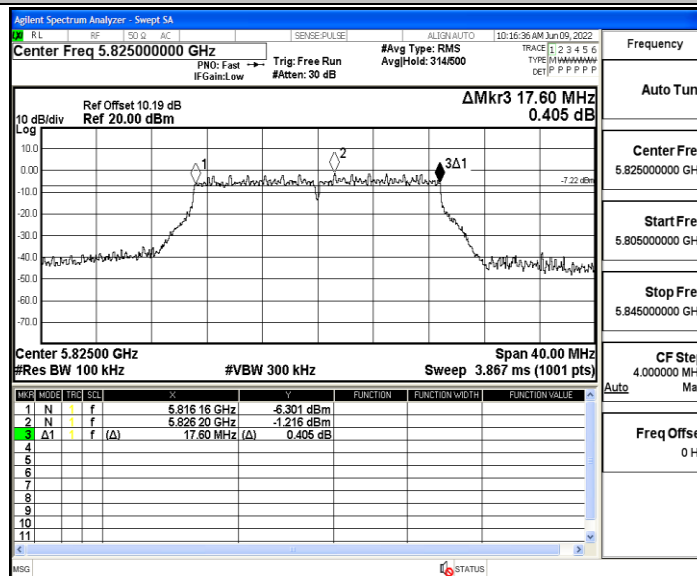
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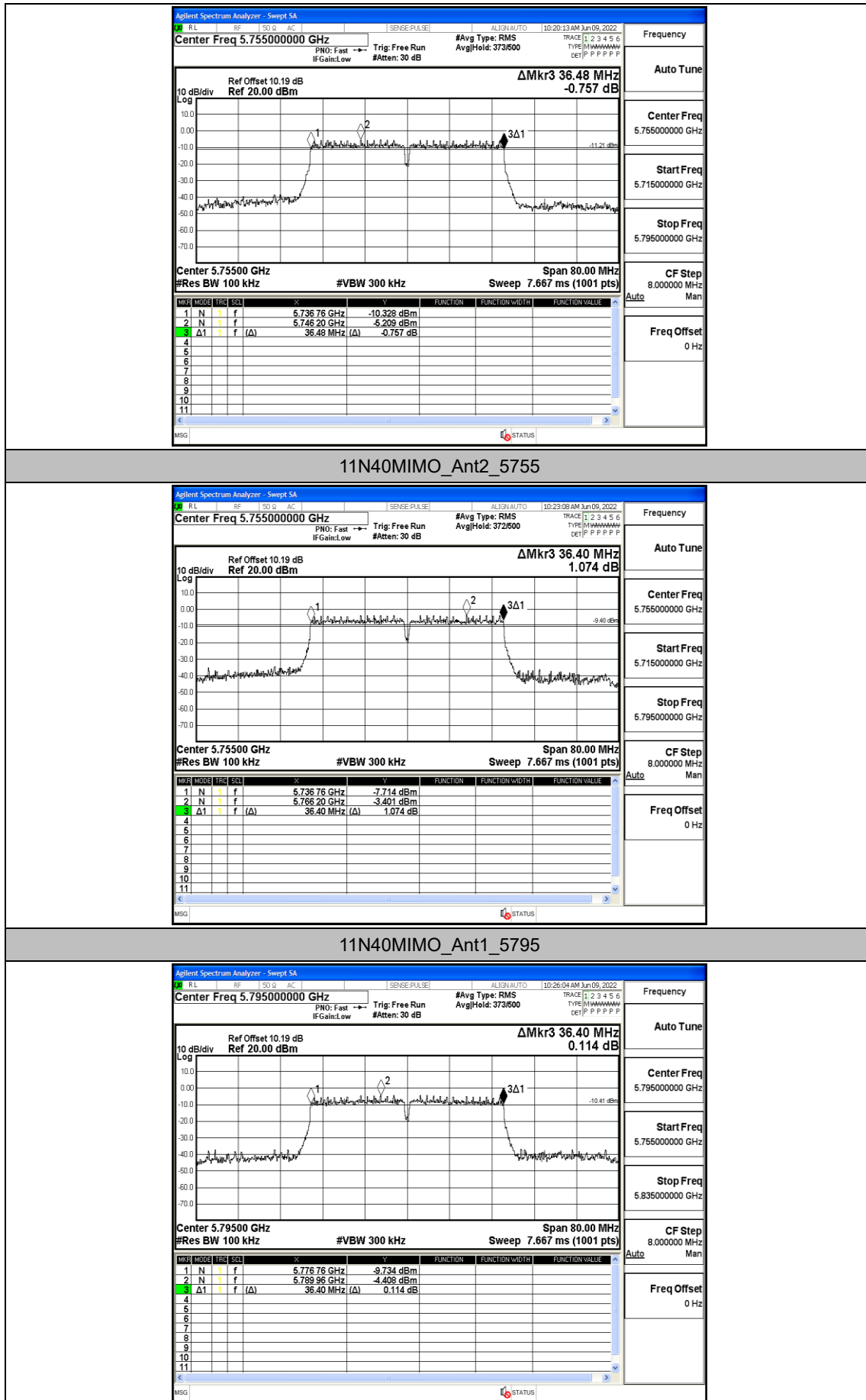
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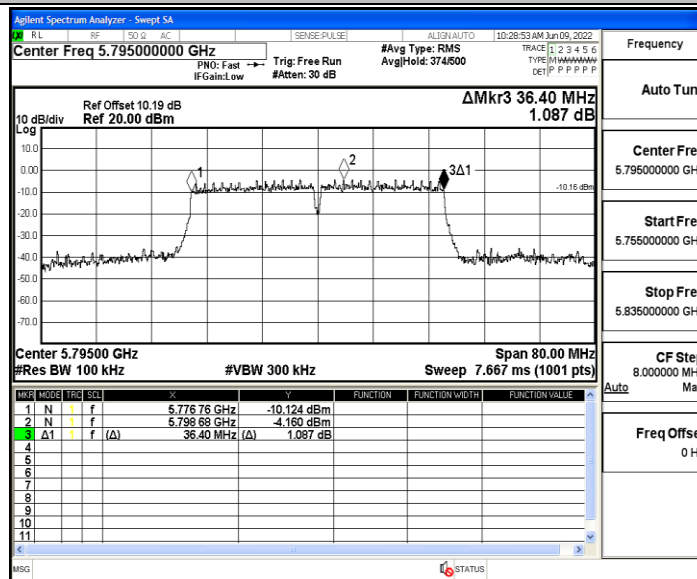
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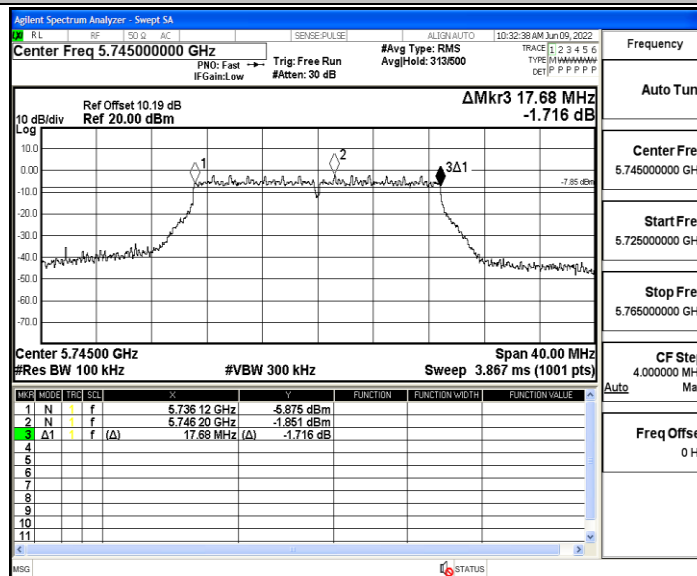
11N40MIMO_Ant1_5755



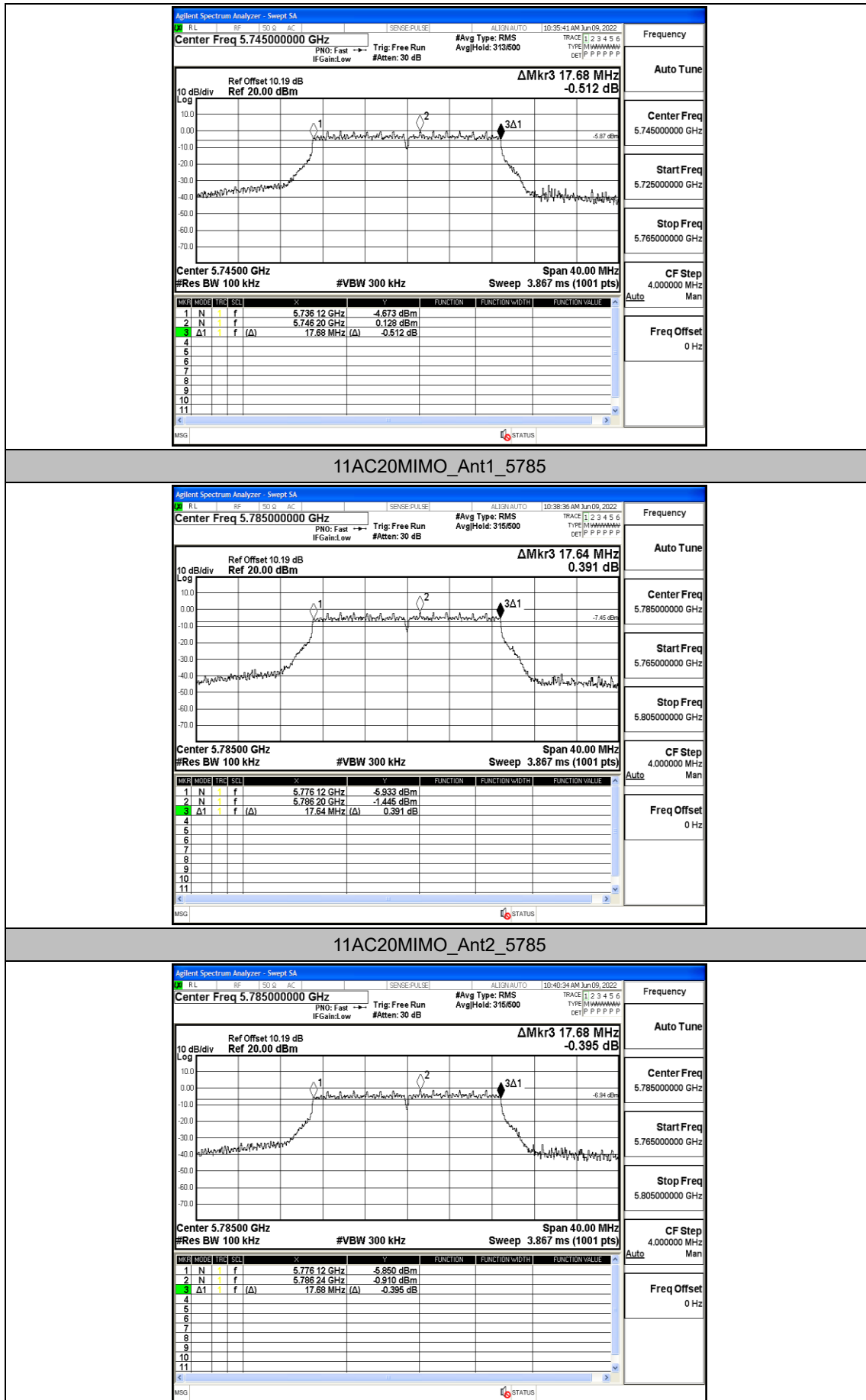
11N40MIMO_Ant2_5795



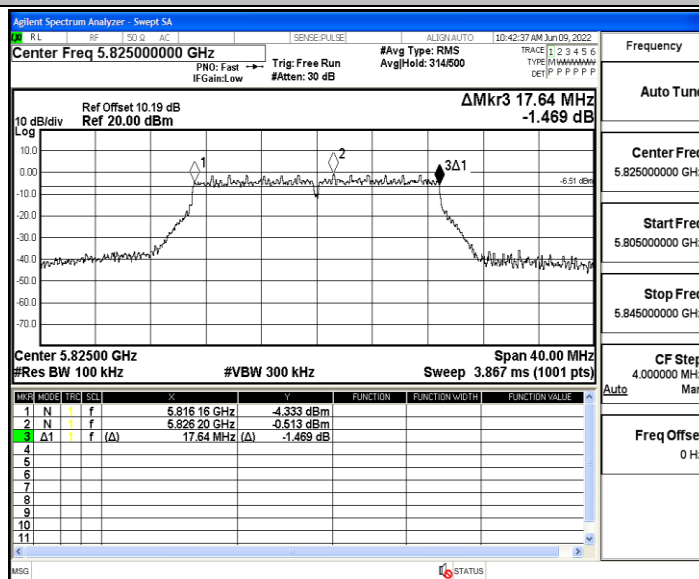
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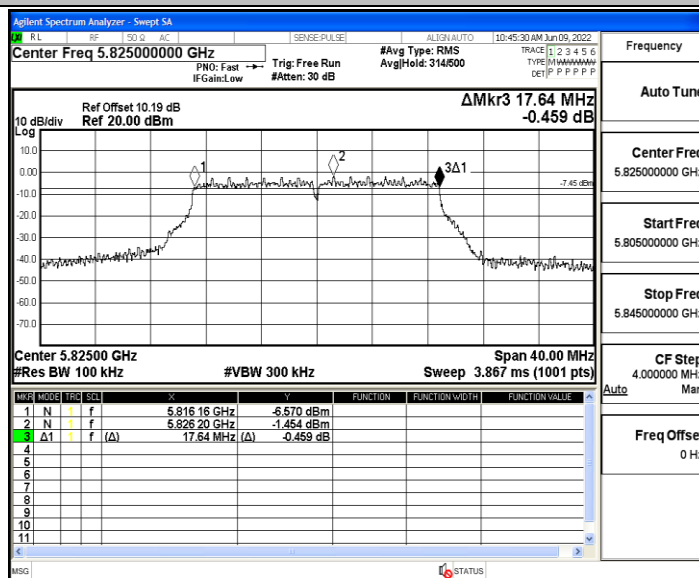
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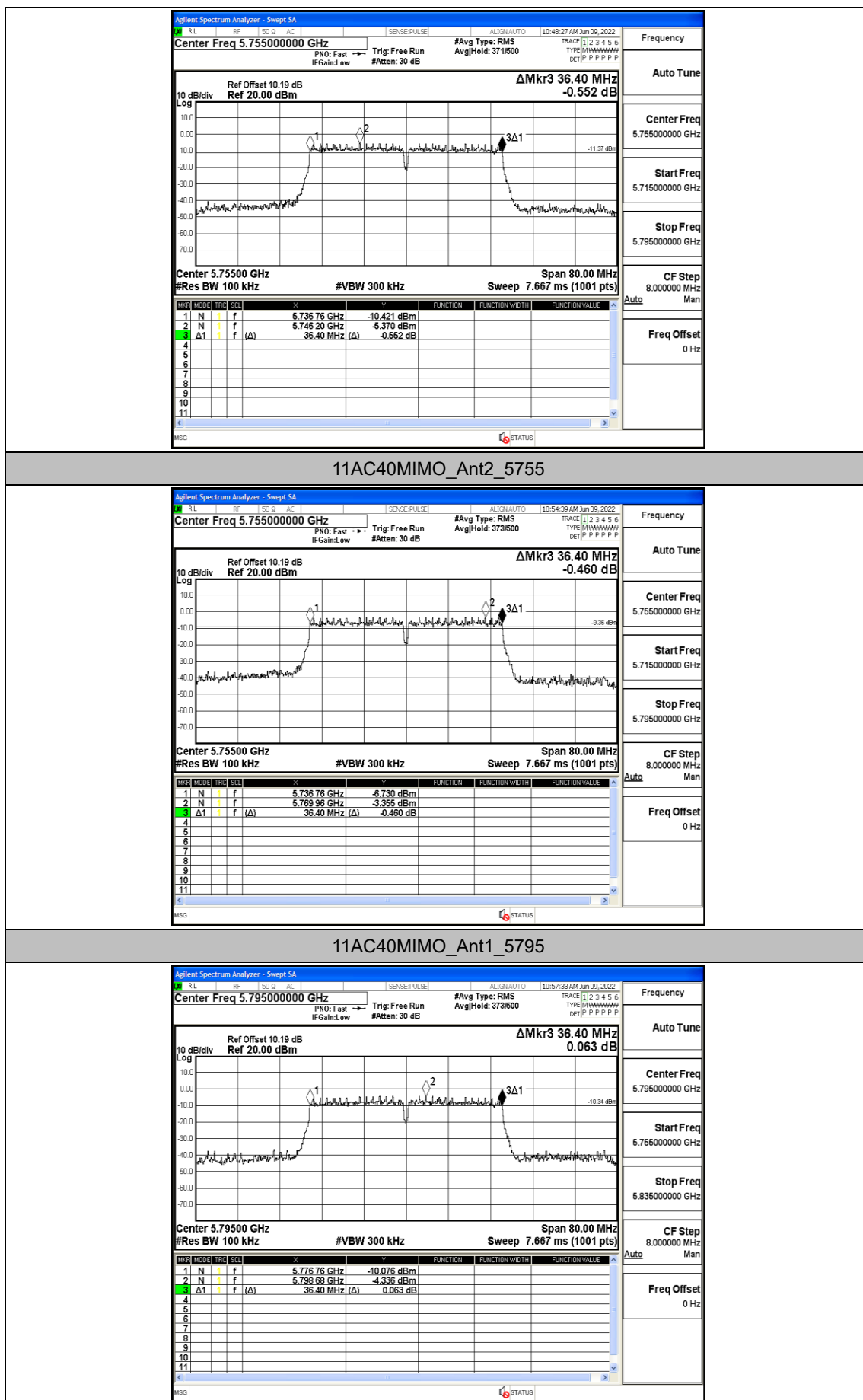
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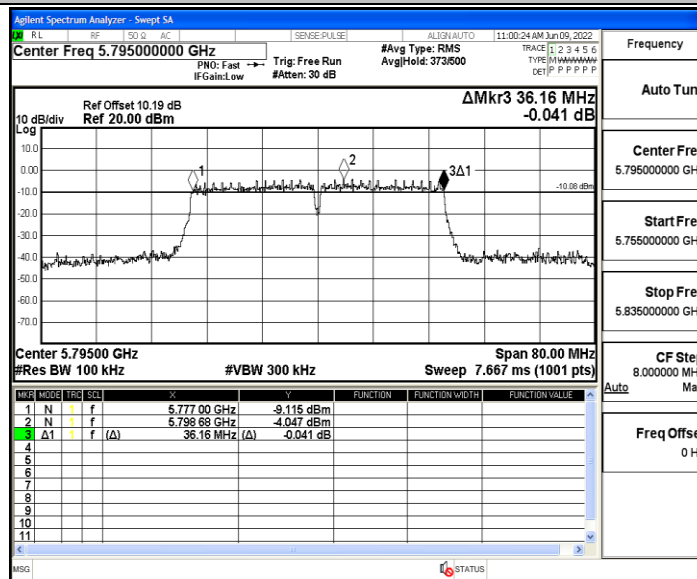
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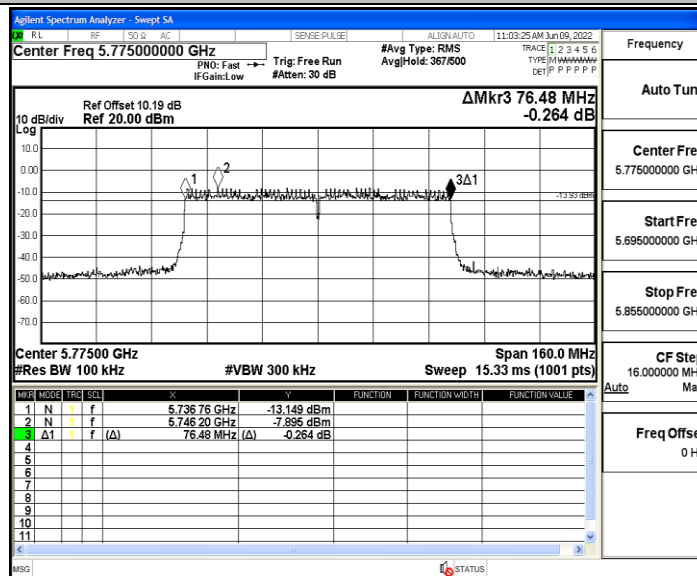
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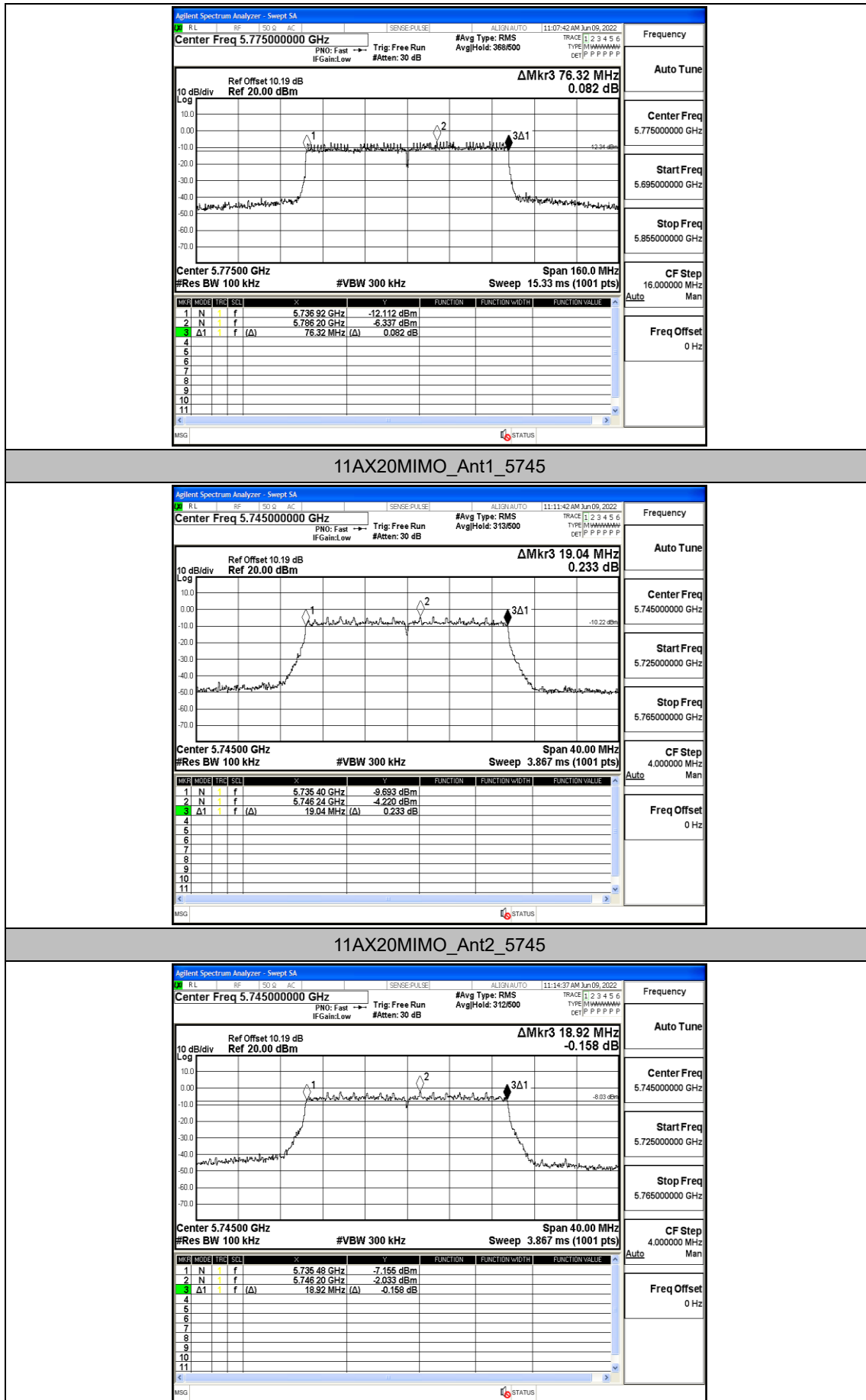
11AC40MIMO_Ant2_5795



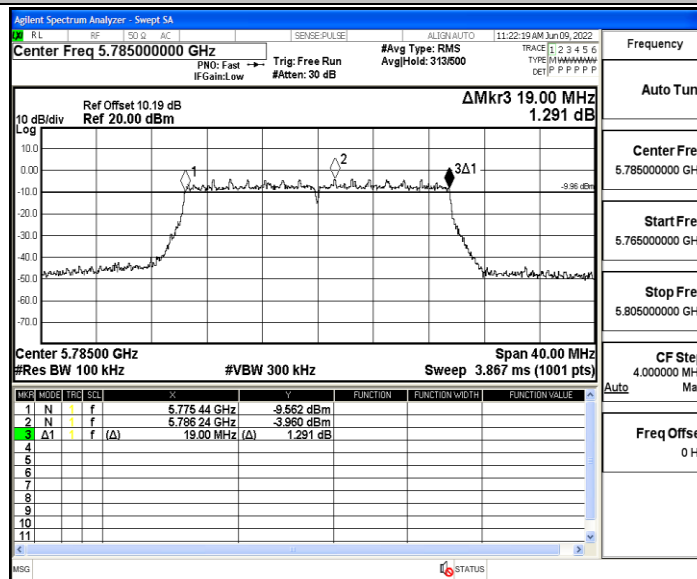
11AC80MIMO_Ant1_5775



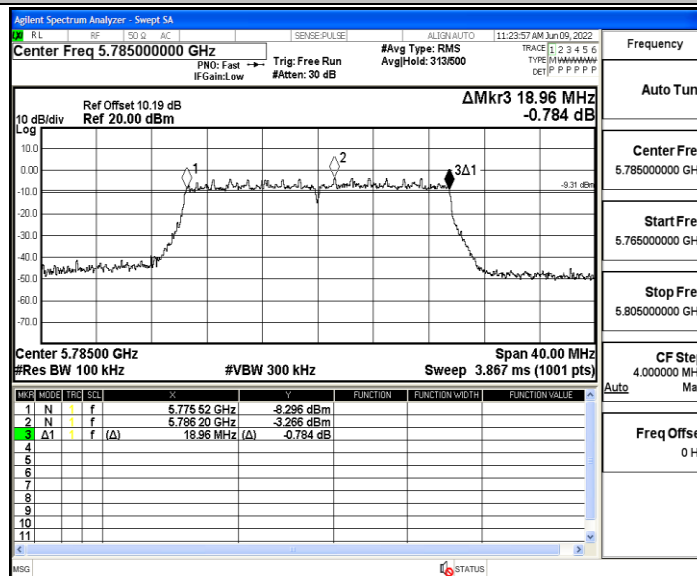
11AC80MIMO_Ant2_5775



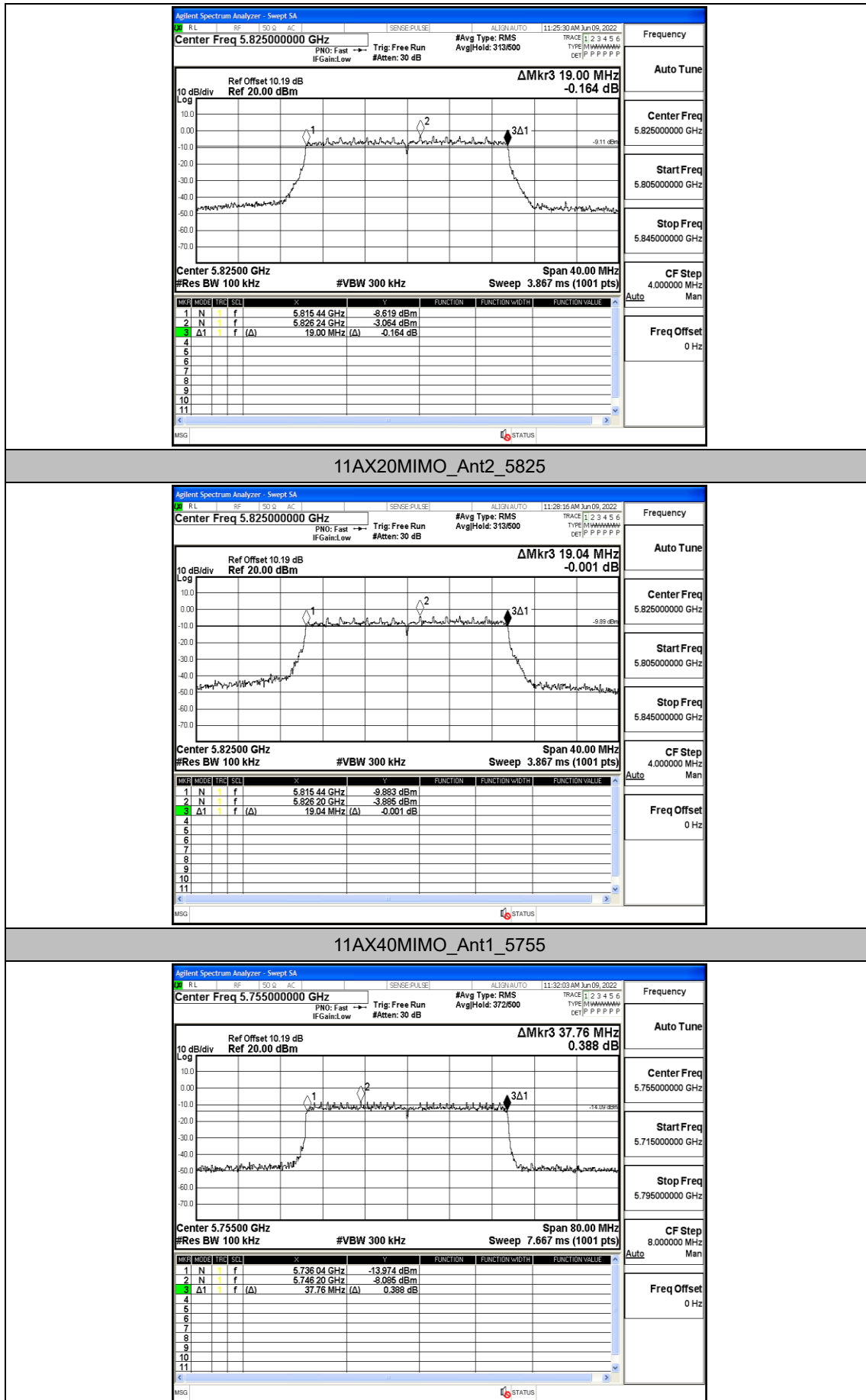
11AX20MIMO_Ant1_5785



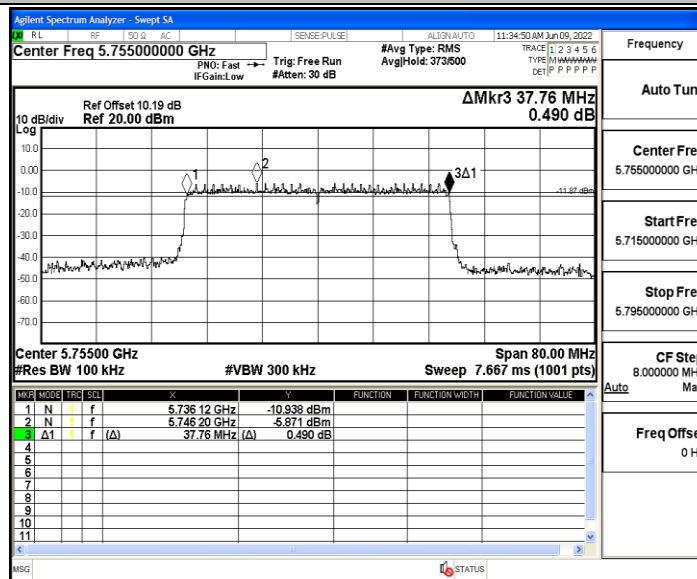
11AX20MIMO_Ant2_5785



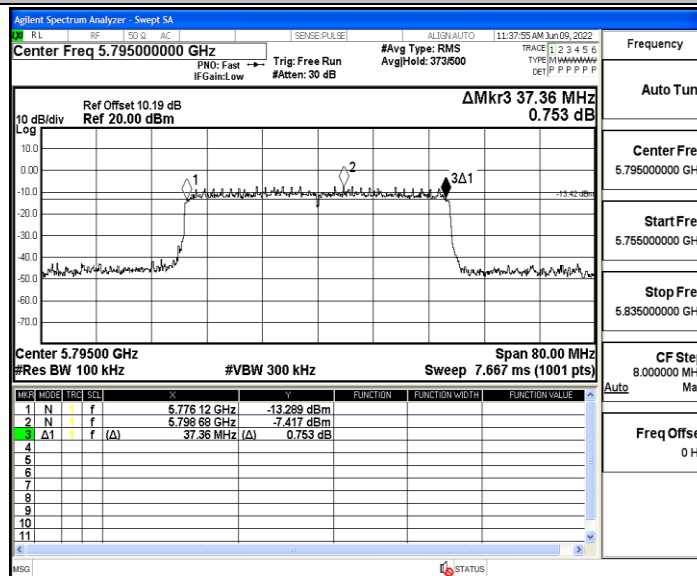
11AX20MIMO_Ant1_5825



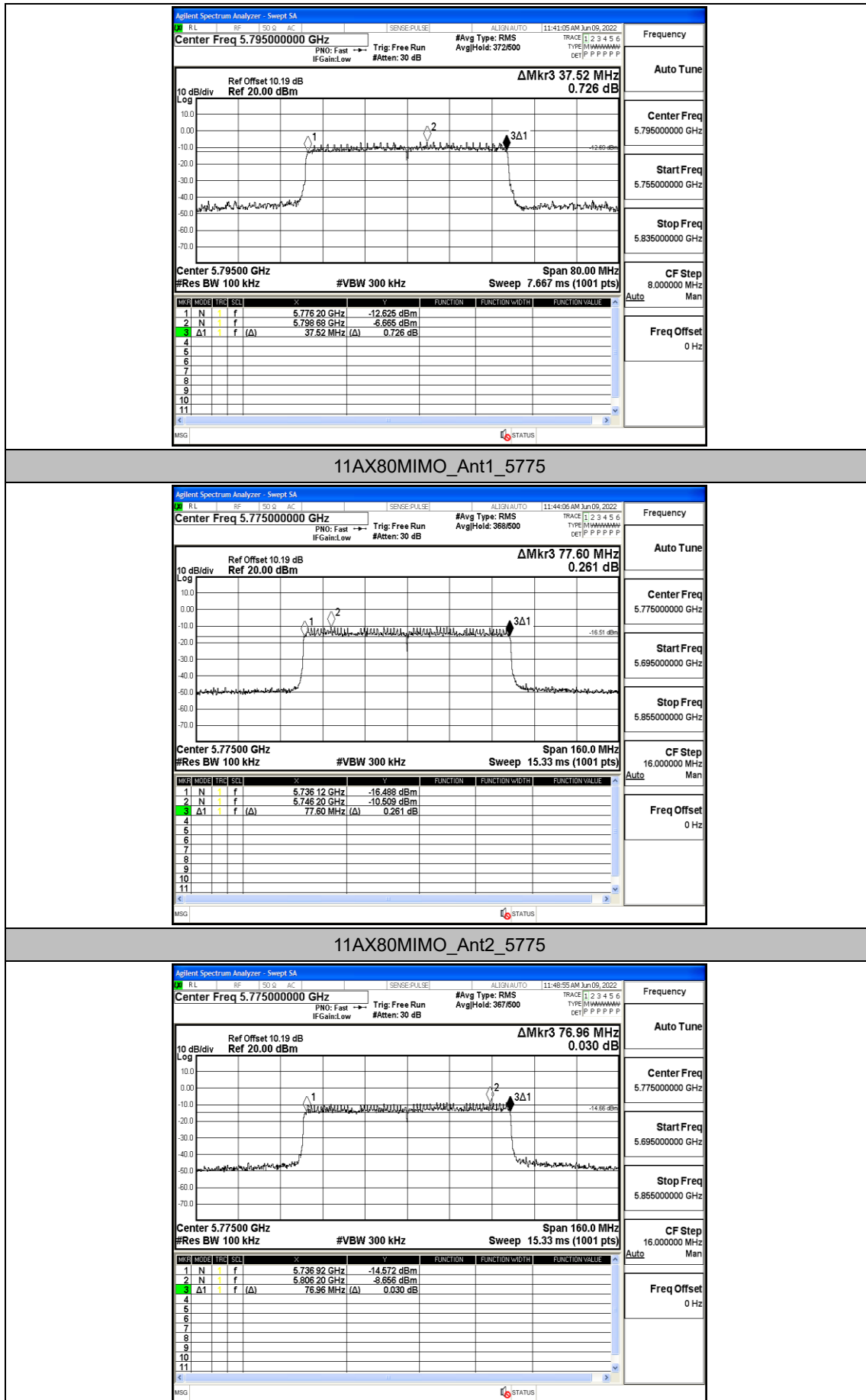
11AX40MIMO_Ant2_5755



11AX40MIMO_Ant1_5795



11AX40MIMO_Ant2_5795



Appendix B: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5745	9.31	≤30.00	PASS
	Ant2	5745	11.28	≤28.80	PASS
	Ant1	5785	9.74	≤30.00	PASS
	Ant2	5785	10.24	≤28.80	PASS
	Ant1	5825	10.46	≤30.00	PASS
	Ant2	5825	9.63	≤28.80	PASS
11N20MIMO	Ant1	5745	9.35	≤30.00	PASS
	Ant2	5745	11.38	≤28.80	PASS
	total	5745	13.49	≤26.4	PASS
	Ant1	5785	9.97	≤30.00	PASS
	Ant2	5785	10.39	≤28.80	PASS
	total	5785	13.20	≤26.4	PASS
	Ant1	5825	10.65	≤30.00	PASS
	Ant2	5825	9.82	≤28.80	PASS
	total	5825	13.27	≤26.4	PASS
11N40MIMO	Ant1	5755	9.04	≤30.00	PASS
	Ant2	5755	10.95	≤28.80	PASS
	total	5755	13.11	≤26.4	PASS
	Ant1	5795	9.64	≤30.00	PASS
	Ant2	5795	9.98	≤28.80	PASS
	total	5795	12.82	≤26.4	PASS
11AC20MIMO	Ant1	5745	9.40	≤30.00	PASS
	Ant2	5745	11.31	≤28.80	PASS
	total	5745	13.47	≤26.4	PASS
	Ant1	5785	9.78	≤30.00	PASS
	Ant2	5785	10.23	≤28.80	PASS
	total	5785	13.02	≤26.4	PASS
	Ant1	5825	10.47	≤30.00	PASS
	Ant2	5825	9.71	≤28.80	PASS
	total	5825	13.12	≤26.4	PASS
11AC40MIMO	Ant1	5755	9.48	≤30.00	PASS
	Ant2	5755	11.45	≤28.80	PASS
	total	5755	13.59	≤26.4	PASS
	Ant1	5795	9.66	≤30.00	PASS
	Ant2	5795	10.26	≤28.80	PASS
	total	5795	12.98	≤26.4	PASS
11AC80MIMO	Ant1	5775	9.20	≤30.00	PASS
	Ant2	5775	10.53	≤28.80	PASS

	total	5775	12.93	≤26.4	PASS
11AX20MIMO	Ant1	5745	7.34	≤30.00	PASS
	Ant2	5745	9.39	≤28.80	PASS
	total	5745	11.50	≤26.4	PASS
	Ant1	5785	7.64	≤30.00	PASS
	Ant2	5785	8.26	≤28.80	PASS
	total	5785	10.97	≤26.4	PASS
	Ant1	5825	8.33	≤30.00	PASS
	Ant2	5825	7.52	≤28.80	PASS
	total	5825	10.95	≤26.4	PASS
11AX40MIMO	Ant1	5755	6.35	≤30.00	PASS
	Ant2	5755	9.09	≤28.80	PASS
	total	5755	10.94	≤26.4	PASS
	Ant1	5795	7.06	≤30.00	PASS
	Ant2	5795	7.69	≤28.80	PASS
	total	5795	10.40	≤26.4	PASS
11AX80MIMO	Ant1	5775	7.19	≤30.00	PASS
	Ant2	5775	8.28	≤28.80	PASS
	total	5775	10.78	≤26.4	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	5745	4	≤30.00	PASS
	Ant2	5745	6.32	≤28.80	PASS
	Ant1	5785	4.55	≤26.4	PASS
	Ant2	5785	5.01	≤30.00	PASS
	Ant1	5825	5.74	≤28.80	PASS
	Ant2	5825	4.25	≤26.4	PASS
11N20MIMO	Ant1	5745	4.93	≤30.00	PASS
	Ant2	5745	5.79	≤28.80	PASS
	total	5745	8.39	≤26.4	PASS
	Ant1	5785	4.3	≤30.00	PASS
	Ant2	5785	6.07	≤28.80	PASS
	total	5785	8.28	≤26.4	PASS
	Ant1	5825	5.23	≤30.00	PASS
	Ant2	5825	5.48	≤28.80	PASS
	total	5825	8.37	≤26.4	PASS
11N40MIMO	Ant1	5755	1.56	≤30.00	PASS
	Ant2	5755	3.69	≤28.80	PASS
	total	5755	5.76	≤26.4	PASS
	Ant1	5795	2.2	≤30.00	PASS
	Ant2	5795	2.51	≤28.80	PASS
	total	5795	5.37	≤26.4	PASS
11AC20MIMO	Ant1	5745	3.08	≤30.00	PASS
	Ant2	5745	5.03	≤28.80	PASS
	total	5745	7.17	≤26.4	PASS
	Ant1	5785	3.82	≤30.00	PASS
	Ant2	5785	4.82	≤28.80	PASS
	total	5785	7.36	≤26.4	PASS
	Ant1	5825	4.22	≤30.00	PASS
	Ant2	5825	4.05	≤28.80	PASS
	total	5825	7.15	≤26.4	PASS
11AC40MIMO	Ant1	5755	2.31	≤30.00	PASS
	Ant2	5755	4.37	≤28.80	PASS
	total	5755	6.47	≤26.4	PASS
	Ant1	5795	2.39	≤30.00	PASS
	Ant2	5795	3.97	≤28.80	PASS
	total	5795	6.26	≤26.4	PASS
11AC80MIMO	Ant1	5775	-1.13	≤30.00	PASS
	Ant2	5775	0.55	≤28.80	PASS

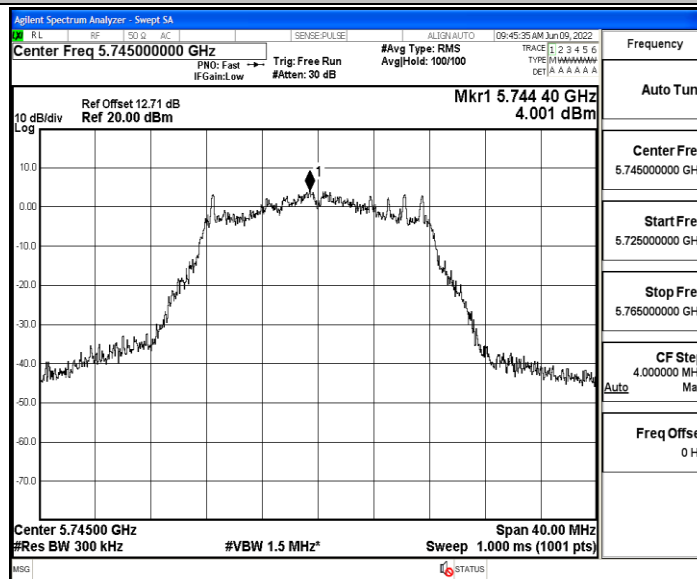
	total	5775	2.80	≤ 26.4	PASS
11AX20MIMO	Ant1	5745	2.91	≤ 30.00	PASS
	Ant2	5745	5.03	≤ 28.80	PASS
	total	5745	7.11	≤ 26.4	PASS
	Ant1	5785	3.82	≤ 30.00	PASS
	Ant2	5785	3.7	≤ 28.80	PASS
	total	5785	6.77	≤ 26.4	PASS
	Ant1	5825	4.27	≤ 30.00	PASS
	Ant2	5825	3.94	≤ 28.80	PASS
	total	5825	7.12	≤ 26.4	PASS
11AX40MIMO	Ant1	5755	-0.26	≤ 30.00	PASS
	Ant2	5755	1.96	≤ 28.80	PASS
	total	5755	4.00	≤ 26.4	PASS
	Ant1	5795	0.74	≤ 30.00	PASS
	Ant2	5795	1.1	≤ 28.80	PASS
	total	5795	3.93	≤ 26.4	PASS
11AX80MIMO	Ant1	5775	-3.03	≤ 30.00	PASS
	Ant2	5775	-2.08	≤ 28.80	PASS
	total	5775	0.48	≤ 26.4	PASS

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

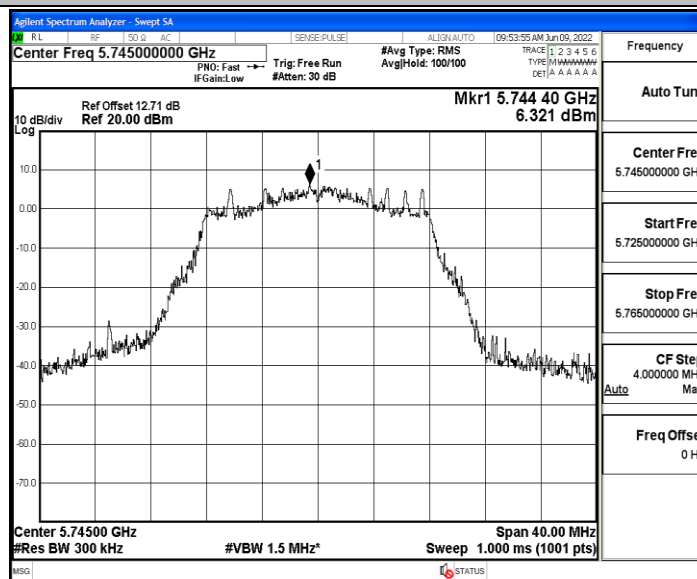
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

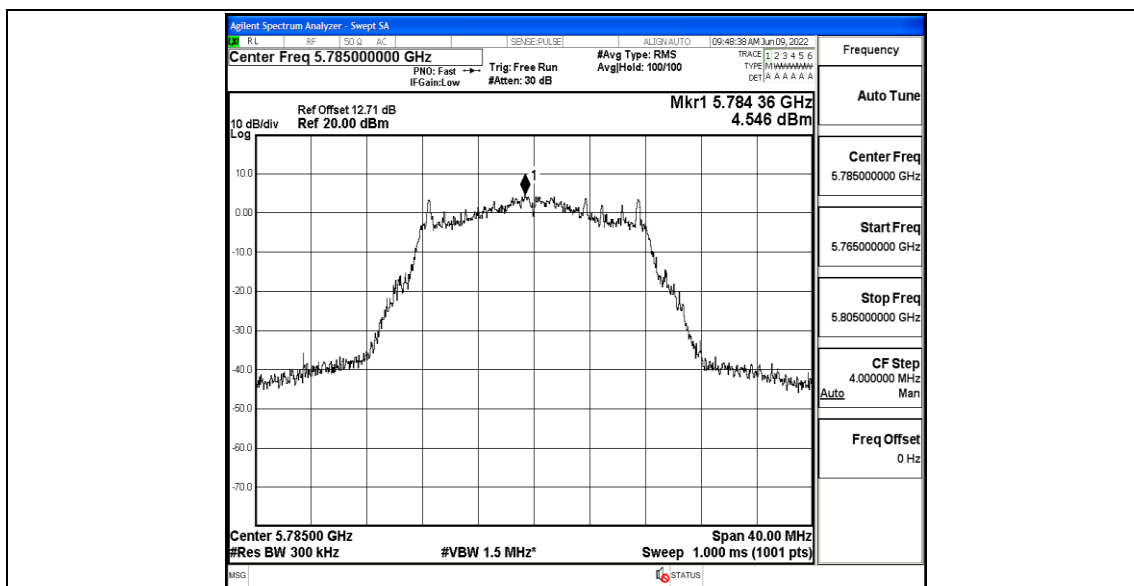
11A_Ant1_5745



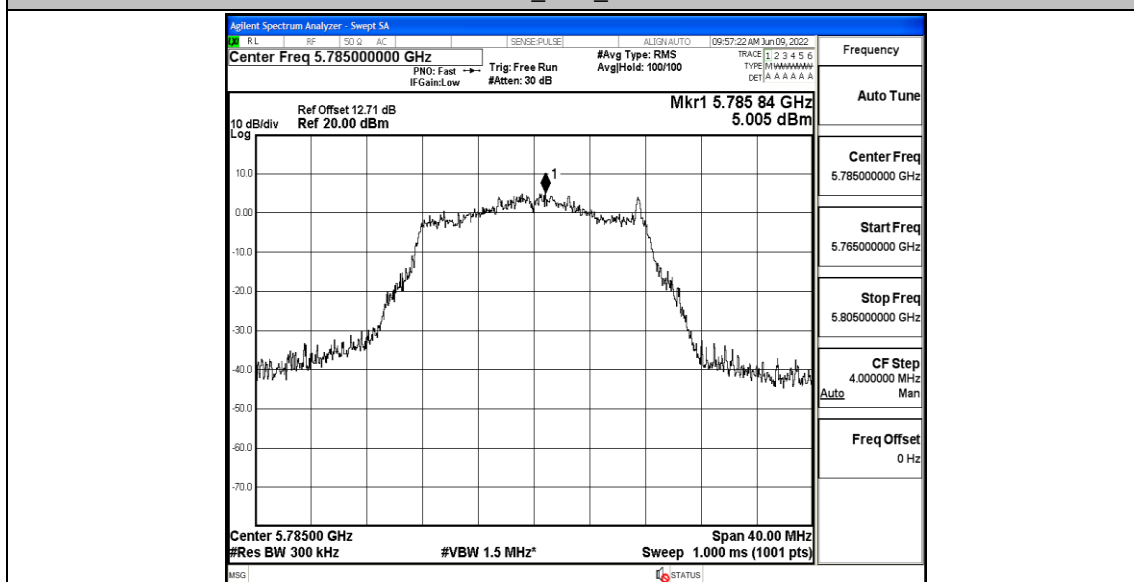
11A_Ant2_5745



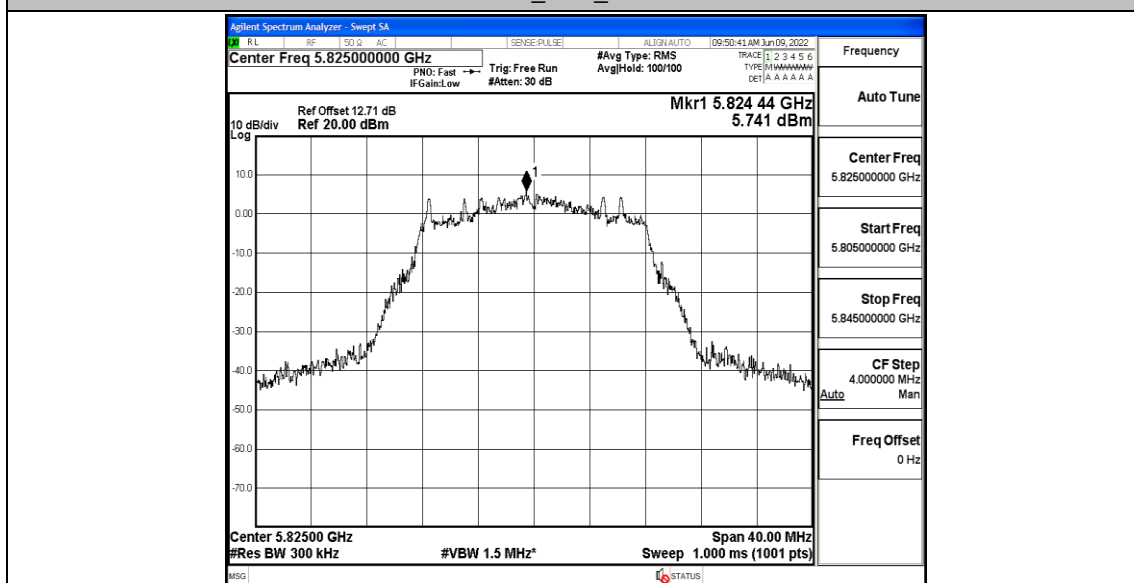
11A_Ant1_5785



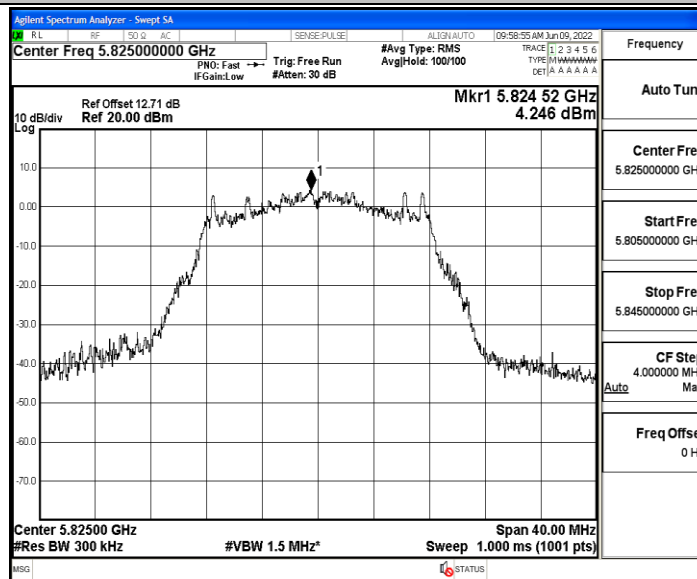
11A_Ant2_5785



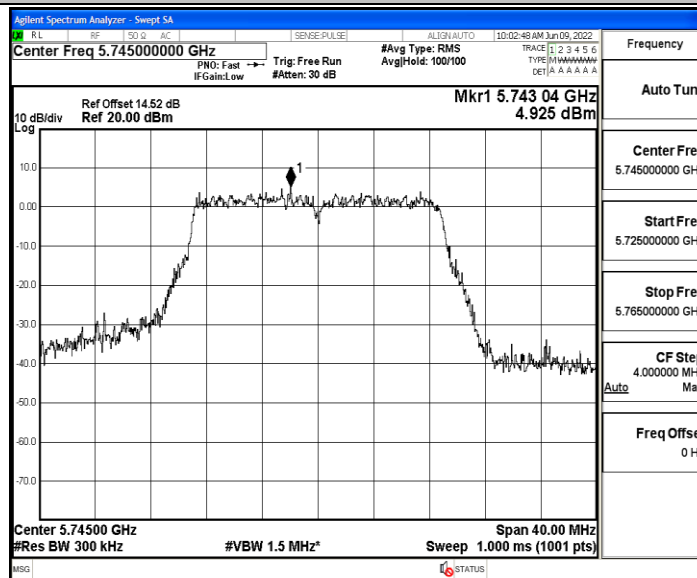
11A_Ant1_5825



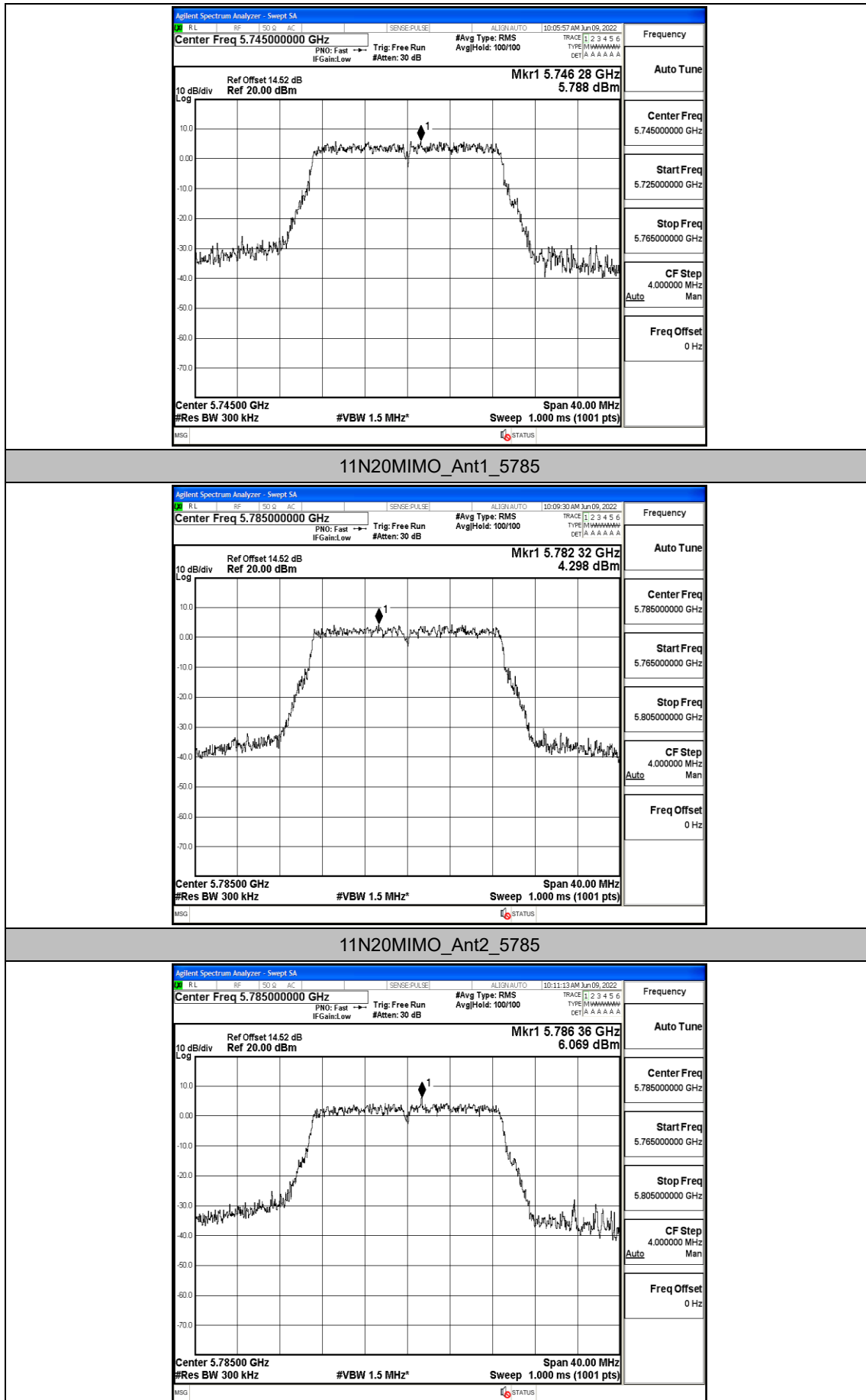
11A_Ant2_5825



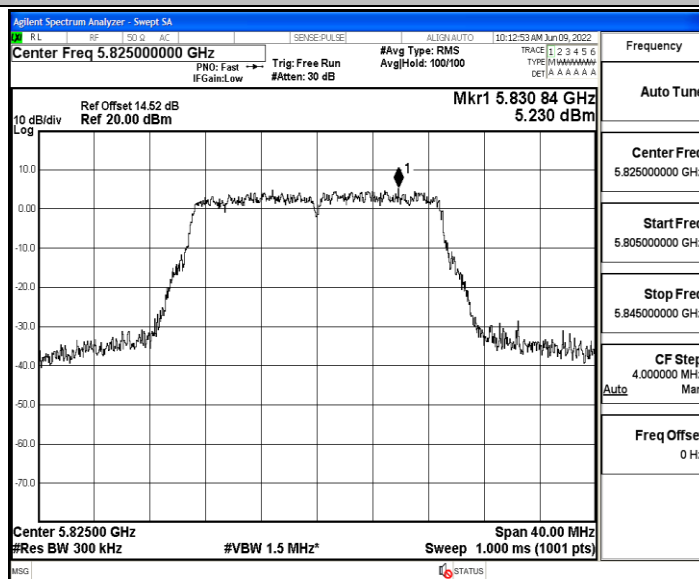
11N20MIMO_Ant1_5745



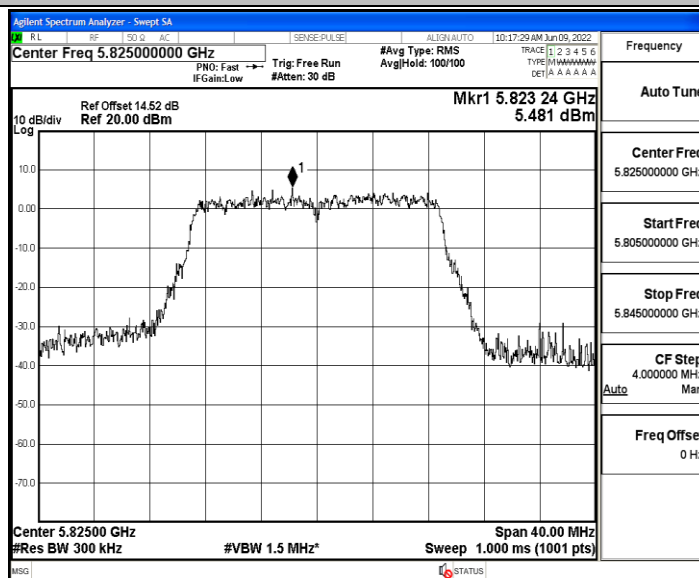
11N20MIMO_Ant2_5745



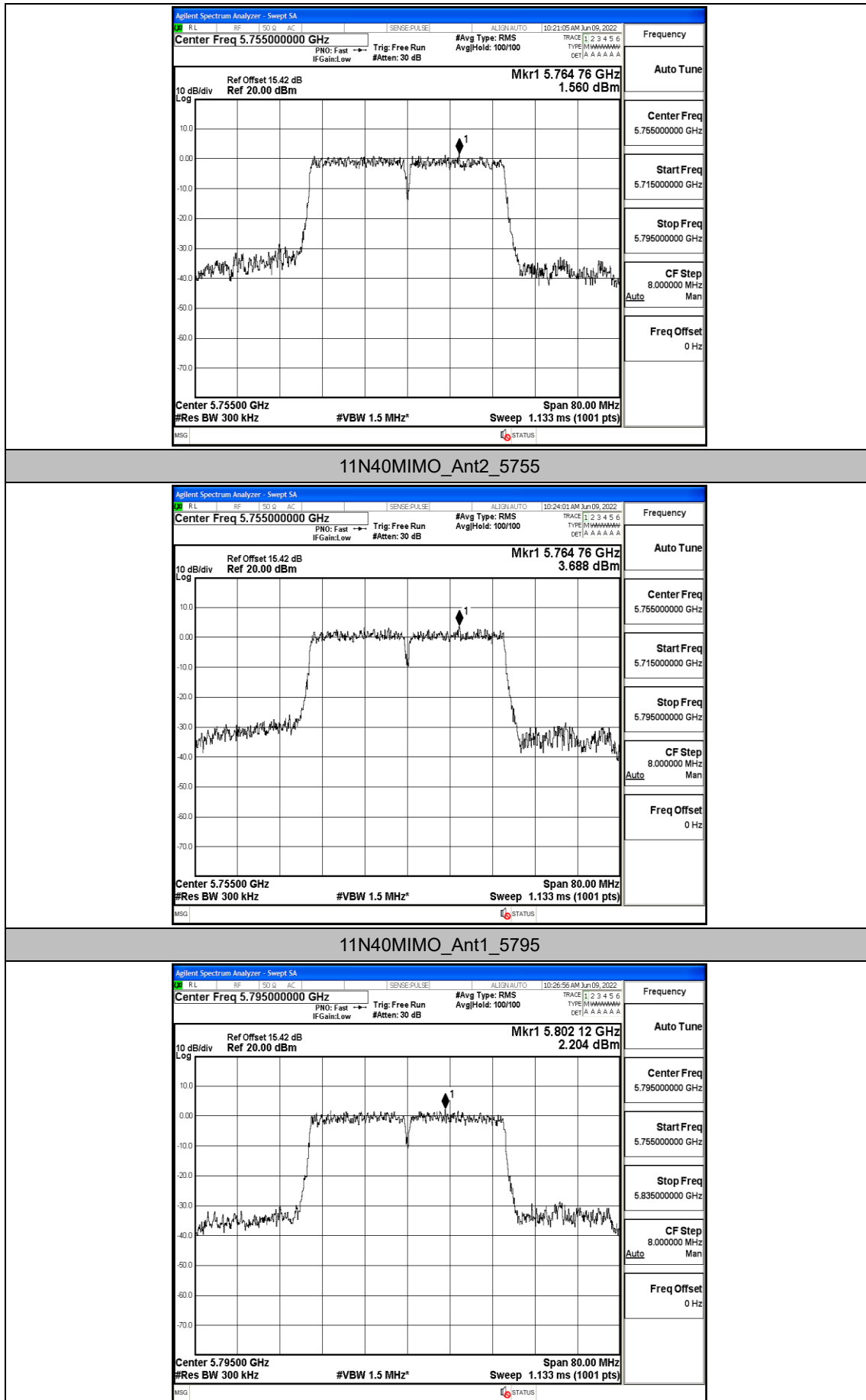
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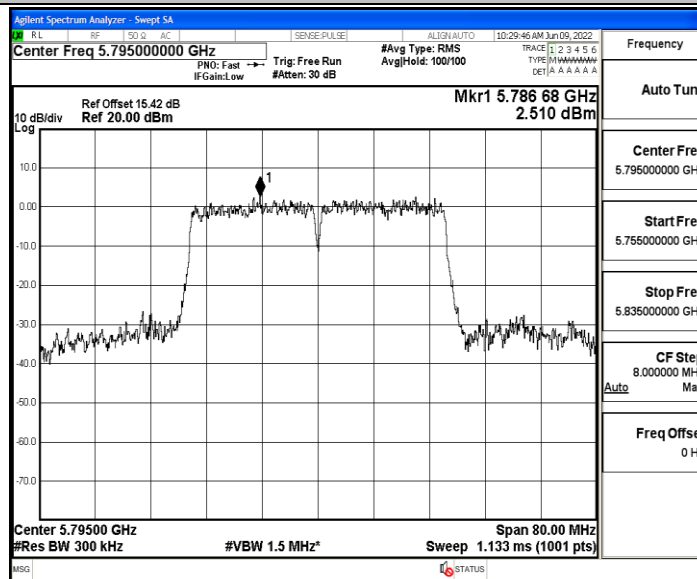
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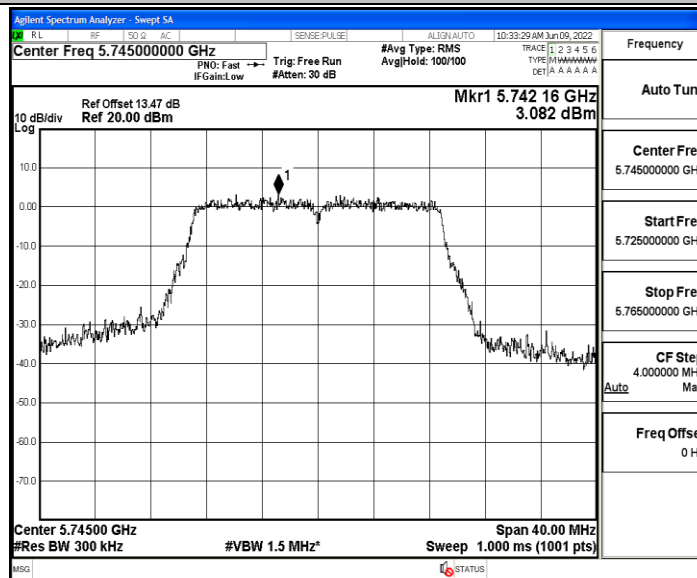
11N40MIMO_Ant1_5755



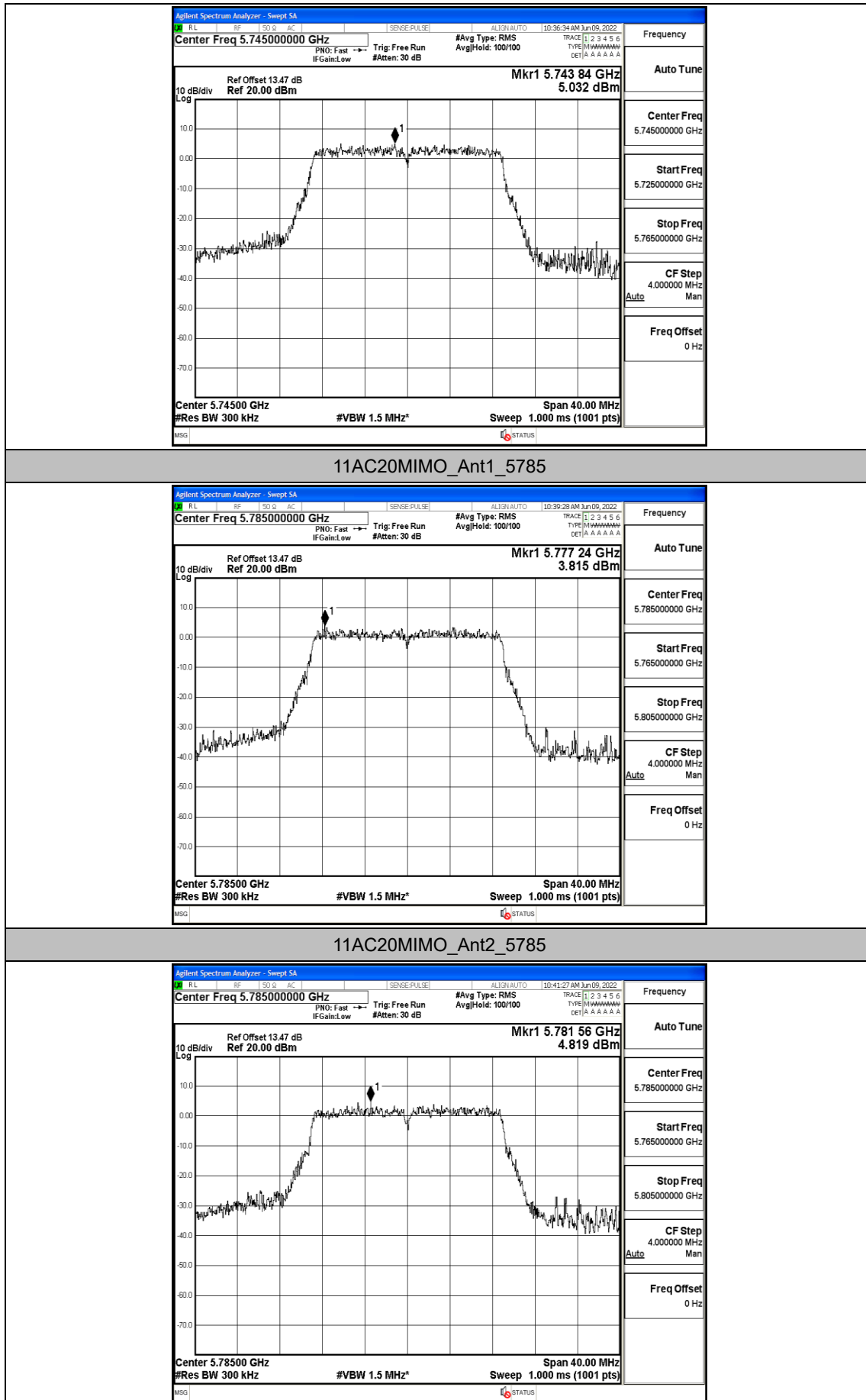
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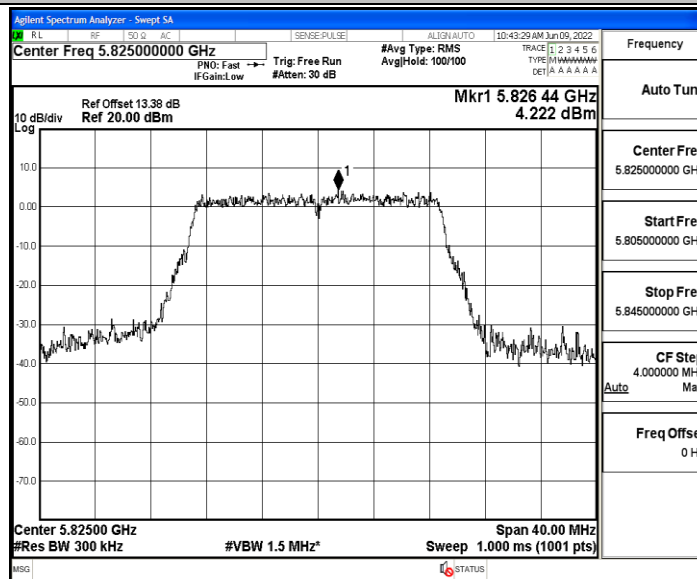
11AC20MIMO_Ant1_5745



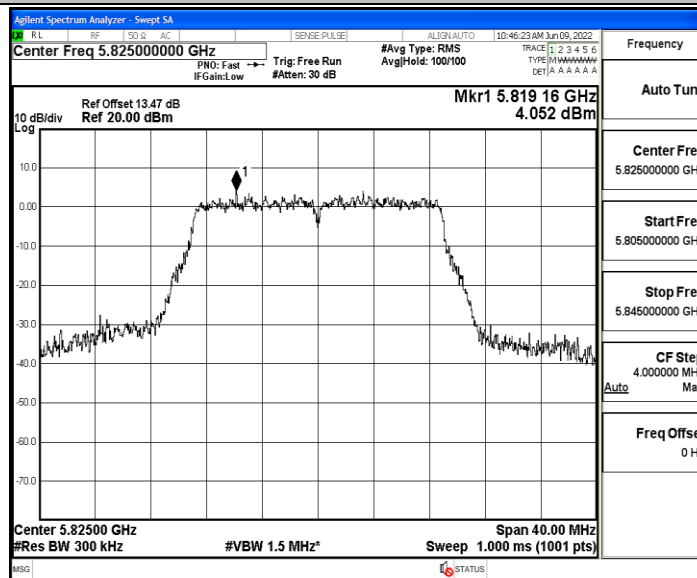
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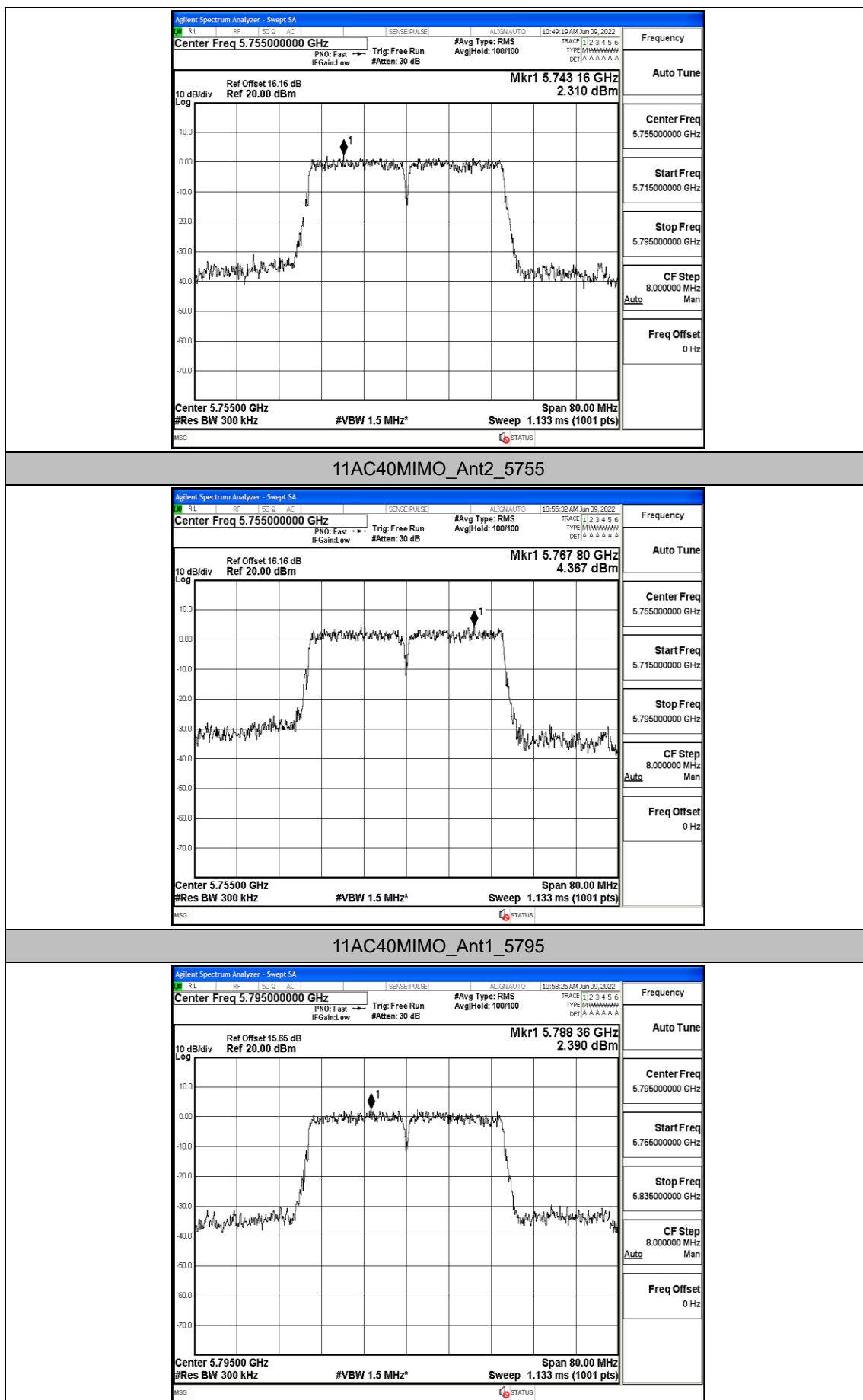
11AC20MIMO_Ant1_5825



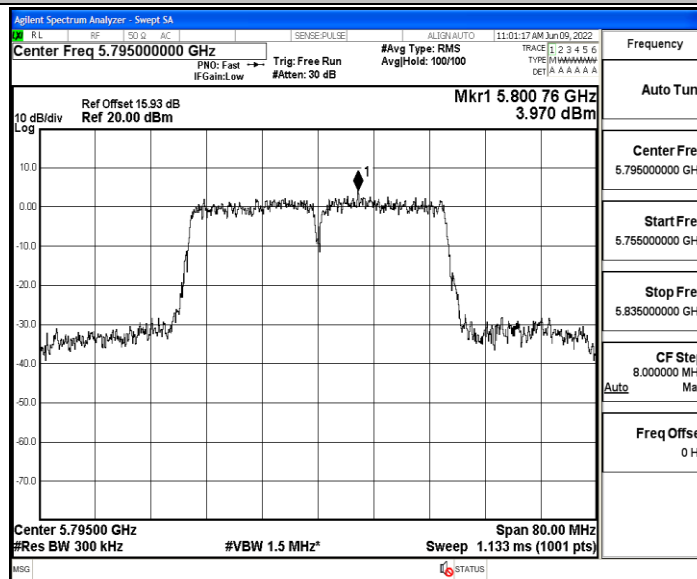
11AC20MIMO_Ant2_5825



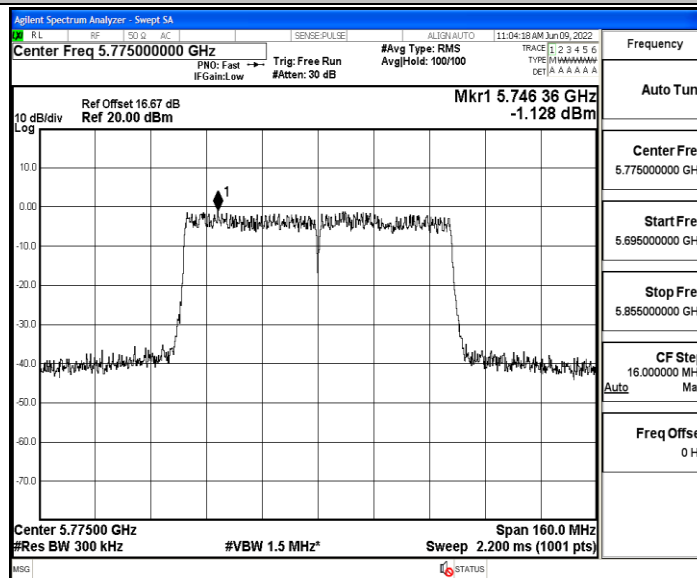
11AC40MIMO_Ant1_5755



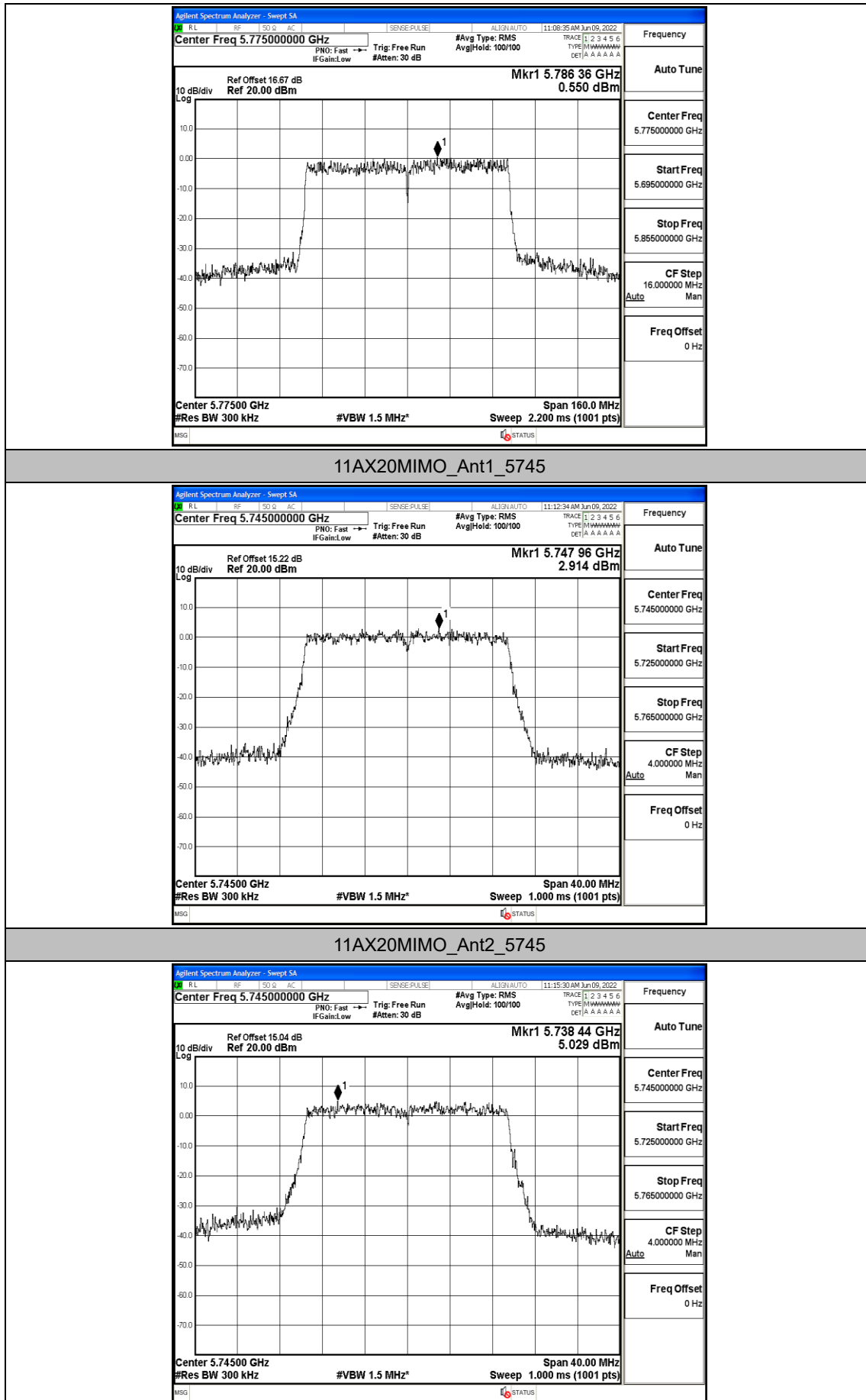
11AC40MIMO_Ant2_5795



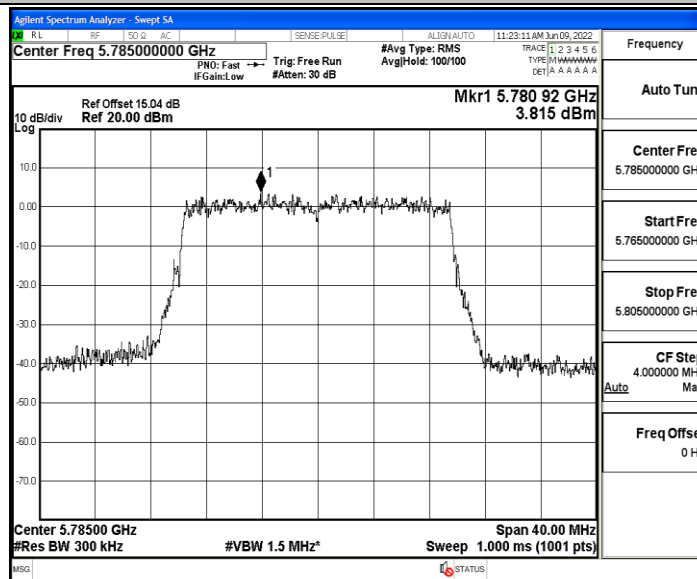
11AC80MIMO_Ant1_5775



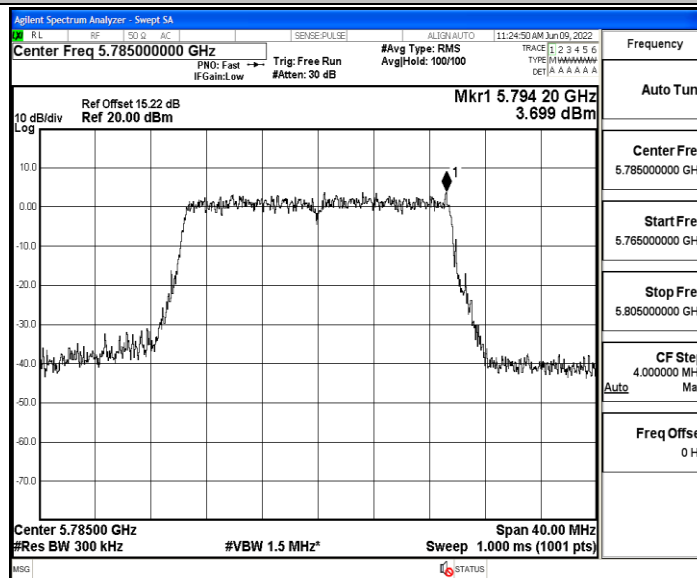
11AC80MIMO_Ant2_5775



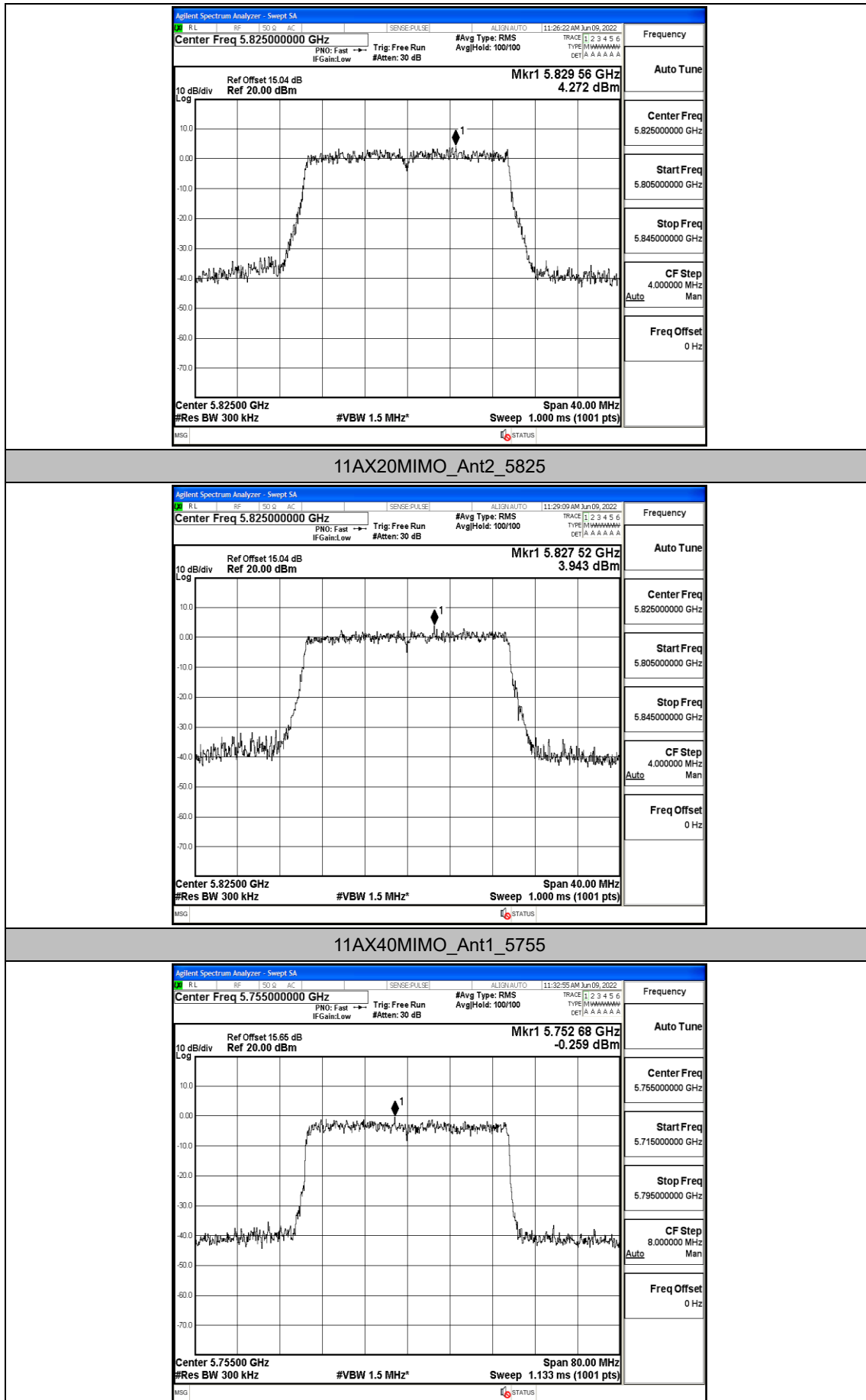
11AX20MIMO_Ant1_5785



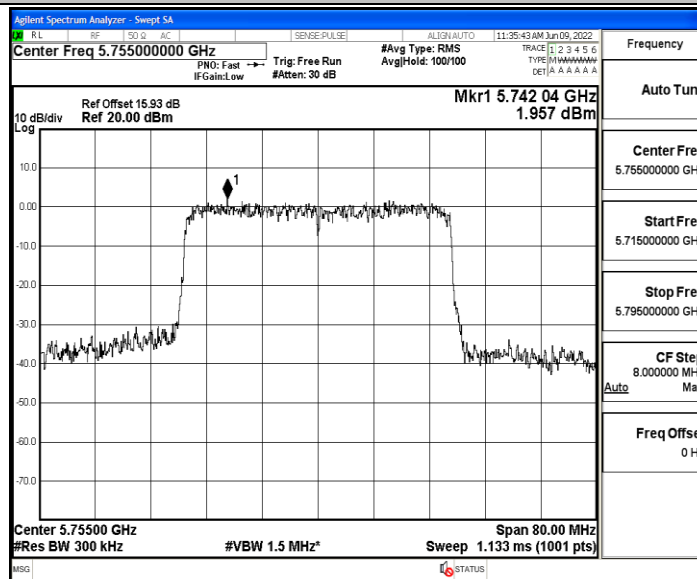
11AX20MIMO_Ant2_5785



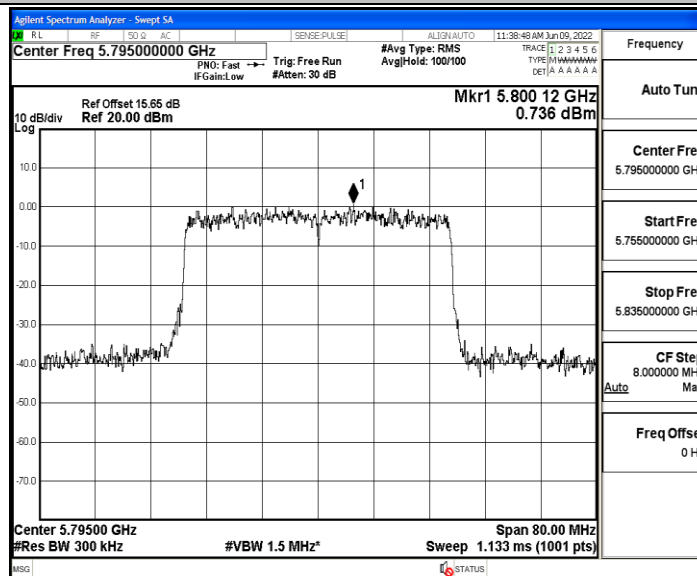
11AX20MIMO_Ant1_5825



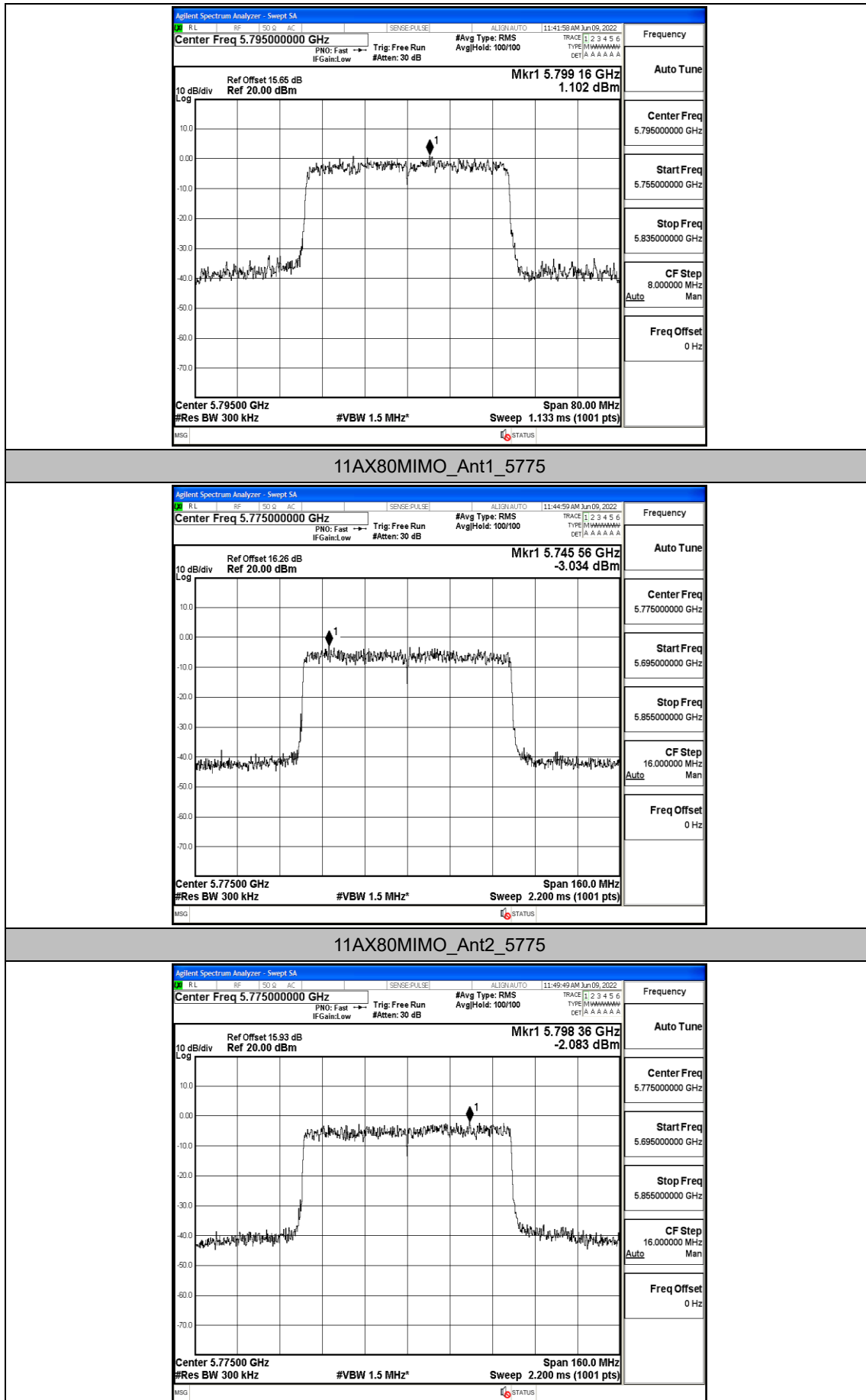
11AX40MIMO_Ant2_5755



11AX40MIMO_Ant1_5795



11AX40MIMO_Ant2_5795



Appendix D: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-42.83	≤3.00	PASS
				5700~5720	-42.34	≤12.25	PASS
				5720~5725	-36.13	≤26.83	PASS
				5760~5650	-44.16	≤-27	PASS
	Ant2	Low	5745	5650~5700	-41.16	≤8.45	PASS
				5700~5720	-38.61	≤15.59	PASS
				5720~5725	-32.76	≤26.83	PASS
				5760~5650	-42.41	≤-27	PASS
	Ant1	High	5825	5850~5855	-42.04	≤25.03	PASS
				5855~5875	-42.2	≤13.99	PASS
				5875~5925	-41.67	≤-17.66	PASS
				5925~5935	-41.86	≤-27	PASS
11N20MI MO	Ant1	Low	5745	5650~5700	-42.51	≤1.72	PASS
				5700~5720	-40.23	≤13.57	PASS
				5720~5725	-36.43	≤25.52	PASS
				5760~5650	-44.8	≤-27	PASS
	Ant2	Low	5745	5650~5700	-40.82	≤2.83	PASS
				5700~5720	-34.66	≤15.14	PASS
				5720~5725	-33.15	≤26.30	PASS
				5760~5650	-42.46	≤-27	PASS
	Ant1	High	5825	5850~5855	-41.66	≤21.33	PASS
				5855~5875	-41.59	≤13.24	PASS
				5875~5925	-42.43	≤-22.96	PASS
				5925~5935	-43.76	≤-27	PASS
11N40MI MO	Ant1	Low	5755	5850~5855	-39.1	≤17.03	PASS
				5855~5875	-40.31	≤10.63	PASS
				5875~5925	-40.68	≤-8.07	PASS
				5925~5935	-42.47	≤-27	PASS
	Ant1	Low	5755	5650~5700	-42.34	≤8.76	PASS
				5700~5720	-34.97	≤14.90	PASS
				5720~5725	-33.46	≤24.66	PASS
				5780~5650	-44.85	≤-27	PASS

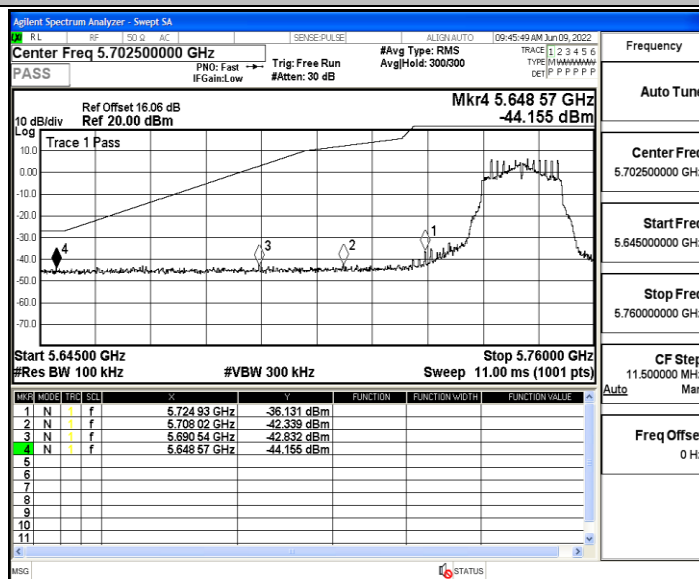
	Ant2	Low	5755	5650~5700	-36.37	≤7.86	PASS
				5700~5720	-29.41	≤14.90	PASS
				5720~5725	-29.81	≤18.51	PASS
				5780~5650	-42.09	≤-27	PASS
	Ant1	High	5795	5850~5855	-42.45	≤22.43	PASS
				5855~5875	-42.48	≤14.61	PASS
				5875~5925	-42.68	≤1.53	PASS
				5925~5935	-41.89	≤-27	PASS
	Ant2	High	5795	5850~5855	-40.89	≤23.93	PASS
				5855~5875	-39.6	≤10.13	PASS
				5875~5925	-41.43	≤6.90	PASS
				5925~5935	-41.44	≤-27	PASS
11AC20M IMO	Ant1	Low	5745	5650~5700	-43.16	≤-1.09	PASS
				5700~5720	-38.27	≤15.43	PASS
				5720~5725	-33.6	≤26.83	PASS
				5760~5650	-43.5	≤-27	PASS
	Ant2	Low	5745	5650~5700	-41.49	≤2.15	PASS
				5700~5720	-31.68	≤15.05	PASS
				5720~5725	-28.58	≤23.42	PASS
				5760~5650	-41.48	≤-27	PASS
	Ant1	High	5825	5850~5855	-40.87	≤16.41	PASS
				5855~5875	-41.71	≤10.85	PASS
				5875~5925	-41.72	≤1.32	PASS
				5925~5935	-43.06	≤-27	PASS
	Ant2	High	5825	5850~5855	-39.33	≤20.41	PASS
				5855~5875	-40.86	≤10.59	PASS
				5875~5925	-40.95	≤9.01	PASS
				5925~5935	-41.68	≤-27	PASS
11AC40M IMO	Ant1	Low	5755	5650~5700	-43.2	≤5.66	PASS
				5700~5720	-34.86	≤14.90	PASS
				5720~5725	-35.48	≤21.28	PASS
				5780~5650	-43.87	≤-27	PASS
	Ant2	Low	5755	5650~5700	-38.86	≤5.76	PASS
				5700~5720	-28.96	≤14.90	PASS
				5720~5725	-29.54	≤26.82	PASS
				5780~5650	-43.14	≤-27	PASS
	Ant1	High	5795	5850~5855	-42.44	≤22.05	PASS
				5855~5875	-42.1	≤10.18	PASS
				5875~5925	-42.18	≤-25.21	PASS
				5925~5935	-43.39	≤-27	PASS
	Ant2	High	5795	5850~5855	-40.94	≤18.29	PASS
				5855~5875	-40.95	≤12.76	PASS
				5875~5925	-39.56	≤-5.31	PASS

				5925~5935	-41.85	≤ -27	PASS
11AC80M IMO	Ant1	Low	5775	5650~5700	-41.48	≤ 8.18	PASS
				5700~5720	-39.47	≤ 14.30	PASS
				5720~5725	-38.21	≤ 23.77	PASS
				5800~5650	-44.08	≤ -27	PASS
		High	5775	5850~5855	-41.83	≤ 18.32	PASS
				5855~5875	-40.98	≤ 14.01	PASS
				5875~5925	-41.11	≤ -11.76	PASS
				5925~5935	-42.78	≤ -27	PASS
	Ant2	Low	5775	5650~5700	-36.99	≤ 7.50	PASS
				5700~5720	-33.78	≤ 15.56	PASS
				5720~5725	-33.79	≤ 15.65	PASS
				5800~5650	-42.23	≤ -27	PASS
		High	5775	5850~5855	-36.84	≤ 18.32	PASS
				5855~5875	-36.09	≤ 14.89	PASS
				5875~5925	-40.19	≤ -21.07	PASS
				5925~5935	-40.89	≤ -27	PASS
11AX20M IMO	Ant1	Low	5745	5650~5700	-42.38	≤ 5.30	PASS
				5700~5720	-43.09	≤ 11.18	PASS
				5720~5725	-41.31	≤ 22.37	PASS
				5760~5650	-43.98	≤ -27	PASS
	Ant2	Low	5745	5650~5700	-40.45	≤ 6.87	PASS
				5700~5720	-39.54	≤ 15.56	PASS
				5720~5725	-35.7	≤ 26.83	PASS
				5760~5650	-42.63	≤ -27	PASS
	Ant1	High	5825	5850~5855	-42.07	≤ 17.03	PASS
				5855~5875	-41.3	≤ 10.25	PASS
				5875~5925	-42.27	≤ -24.46	PASS
				5925~5935	-42.4	≤ -27	PASS
	Ant2	High	5825	5850~5855	-41.29	≤ 26.26	PASS
				5855~5875	-41.86	≤ 10.17	PASS
				5875~5925	-41.05	≤ -2.08	PASS
				5925~5935	-41.62	≤ -27	PASS
11AX40M IMO	Ant1	Low	5755	5650~5700	-42.07	≤ 3.53	PASS
				5700~5720	-40.77	≤ 15.24	PASS
				5720~5725	-39.3	≤ 17.58	PASS
				5780~5650	-43.89	≤ -27	PASS
	Ant2	Low	5755	5650~5700	-41.33	≤ 3.47	PASS
				5700~5720	-34.44	≤ 14.90	PASS
				5720~5725	-33.74	≤ 21.58	PASS
				5780~5650	-42.95	≤ -27	PASS
	Ant1	High	5795	5850~5855	-43.37	≤ 16.79	PASS
				5855~5875	-42.95	≤ 12.86	PASS

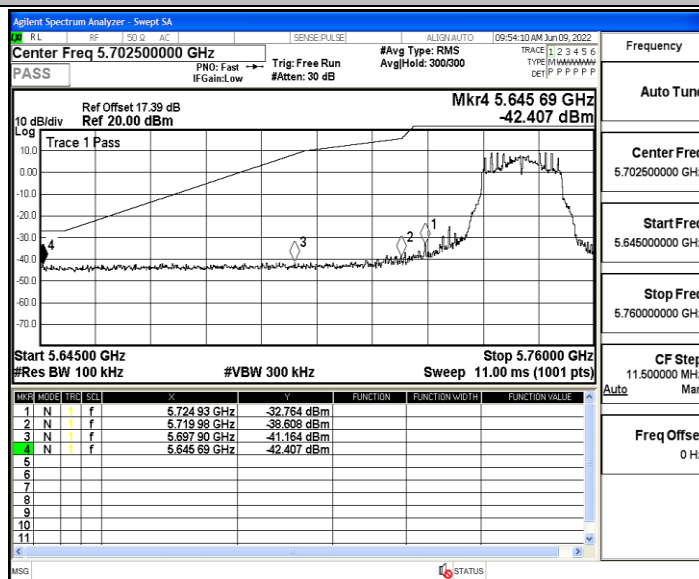
				5875~5925	-42.24	≤ 6.04	PASS
				5925~5935	-42.88	≤ -27	PASS
	Ant2	High	5795	5850~5855	-41.31	≤ 20.92	PASS
				5855~5875	-40.84	≤ 14.47	PASS
				5875~5925	-41.47	≤ -4.58	PASS
11AX80M IMO	Ant1	Low	5775	5925~5935	-41.59	≤ -27	PASS
				5650~5700	-41.65	≤ 2.56	PASS
				5700~5720	-42.02	≤ 12.65	PASS
				5720~5725	-41.32	≤ 24.13	PASS
		High	5775	5800~5650	-44.58	≤ -27	PASS
				5850~5855	-42.48	≤ 24.65	PASS
				5855~5875	-42.4	≤ 13.96	PASS
				5875~5925	-42.03	≤ 8.50	PASS
	Ant2	Low	5775	5925~5935	-43.12	≤ -27	PASS
				5650~5700	-40.37	≤ 5.43	PASS
				5700~5720	-38.56	≤ 14.17	PASS
				5720~5725	-39.24	≤ 20.59	PASS
		High	5775	5800~5650	-42.66	≤ -27	PASS
				5850~5855	-39.95	≤ 21.28	PASS
				5855~5875	-39.72	≤ 11.21	PASS
				5875~5925	-40.12	≤ -26.96	PASS
				5925~5935	-41.69	≤ -27	PASS

Test Graphs

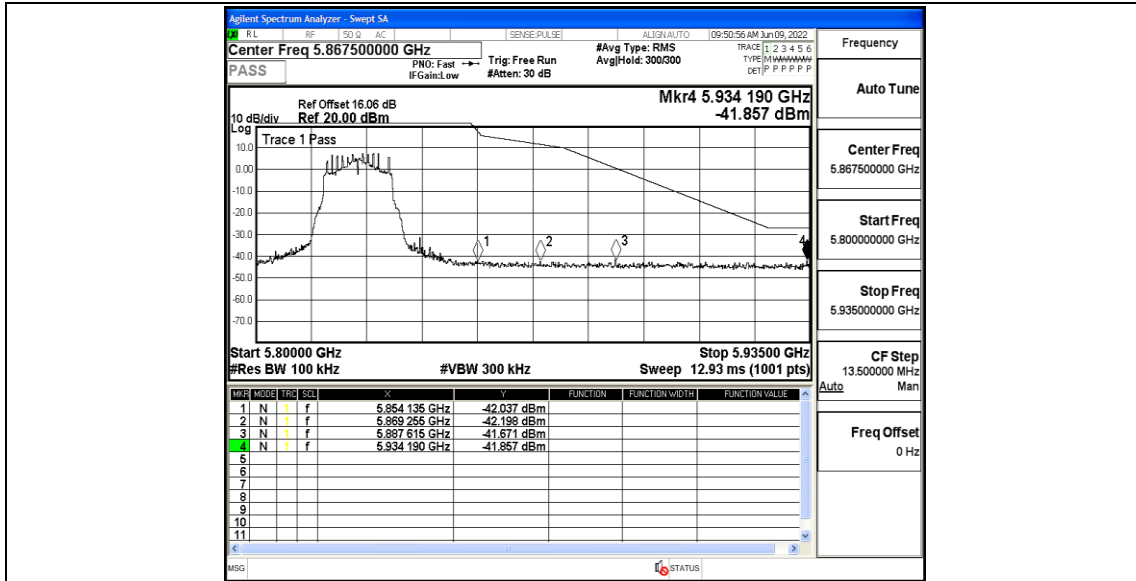
11A_Ant1_Low_5745



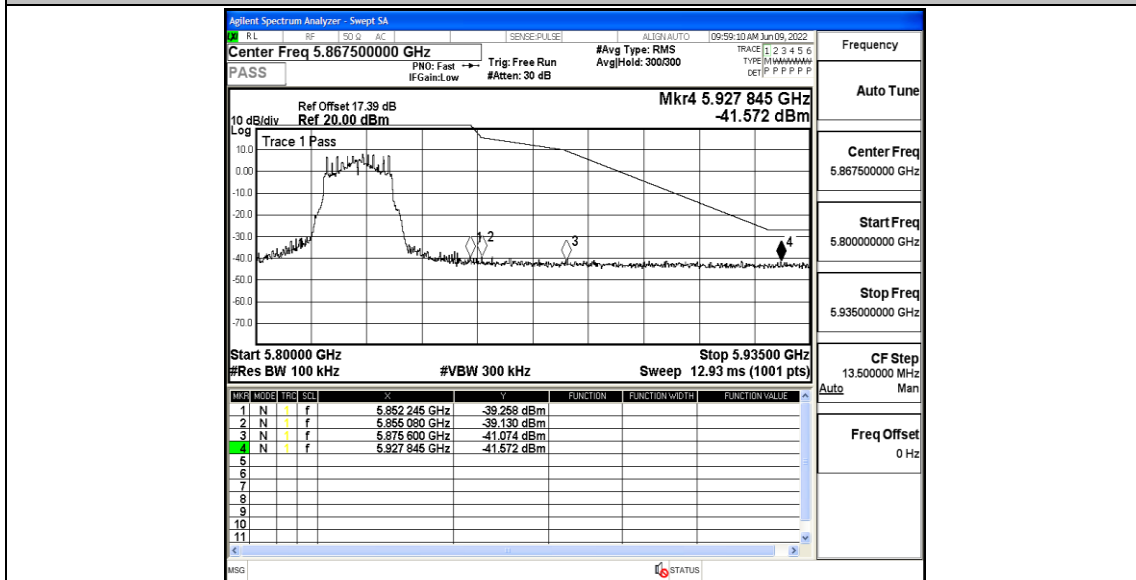
11A_Ant2_Low_5745



11A_Ant1_High_5825



11A_Ant2_High_5825



11N20MIMO_Ant1_Low_5745

