

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

Product Name: OTT+speaker

Trade Mark: N/A

Test Model: SK410A

FCC ID: 2AOVU-SK410AX

Environmental Conditions

Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: Min emission bandwidth

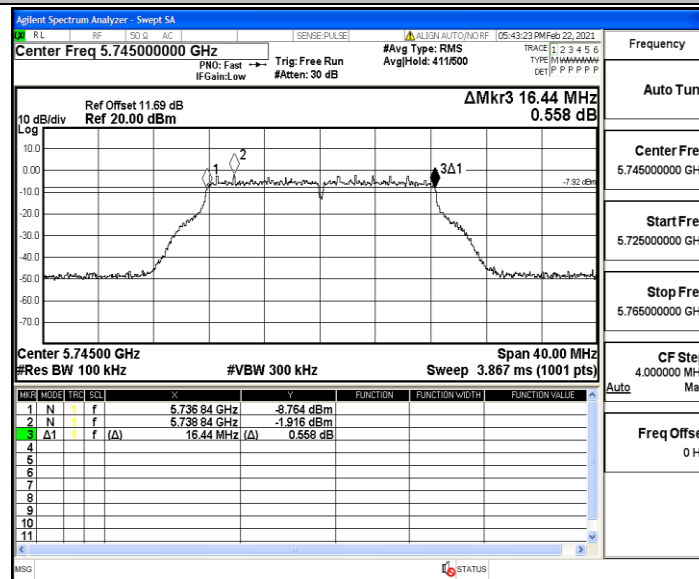
Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.440	5736.840	5753.280	0.5	PASS
	Ant2	5745	16.440	5736.840	5753.280	0.5	PASS
	Ant1	5785	16.400	5776.880	5793.280	0.5	PASS
	Ant2	5785	16.400	5776.880	5793.280	0.5	PASS
	Ant1	5825	16.400	5816.880	5833.280	0.5	PASS
	Ant2	5825	16.440	5816.880	5833.320	0.5	PASS
11N20MIMO	Ant1	5745	17.800	5736.200	5754.000	0.5	PASS
	Ant2	5745	17.800	5736.160	5753.960	0.5	PASS
	Ant1	5785	17.800	5776.200	5794.000	0.5	PASS
	Ant2	5785	17.760	5776.200	5793.960	0.5	PASS
	Ant1	5825	17.760	5816.200	5833.960	0.5	PASS
	Ant2	5825	17.800	5816.200	5834.000	0.5	PASS
11N40MIMO	Ant1	5755	36.640	5736.760	5773.400	0.5	PASS
	Ant2	5755	36.560	5736.760	5773.320	0.5	PASS
	Ant1	5795	36.560	5776.840	5813.400	0.5	PASS
	Ant2	5795	36.560	5776.760	5813.320	0.5	PASS
11AC20MIMO	Ant1	5745	17.840	5736.160	5754.000	0.5	PASS
	Ant2	5745	17.760	5736.200	5753.960	0.5	PASS
	Ant1	5785	17.760	5776.200	5793.960	0.5	PASS
	Ant2	5785	17.760	5776.200	5793.960	0.5	PASS
	Ant1	5825	17.760	5816.200	5833.960	0.5	PASS
	Ant2	5825	17.720	5816.240	5833.960	0.5	PASS
11AC40MIMO	Ant1	5755	36.640	5736.760	5773.400	0.5	PASS
	Ant2	5755	36.640	5736.760	5773.400	0.5	PASS

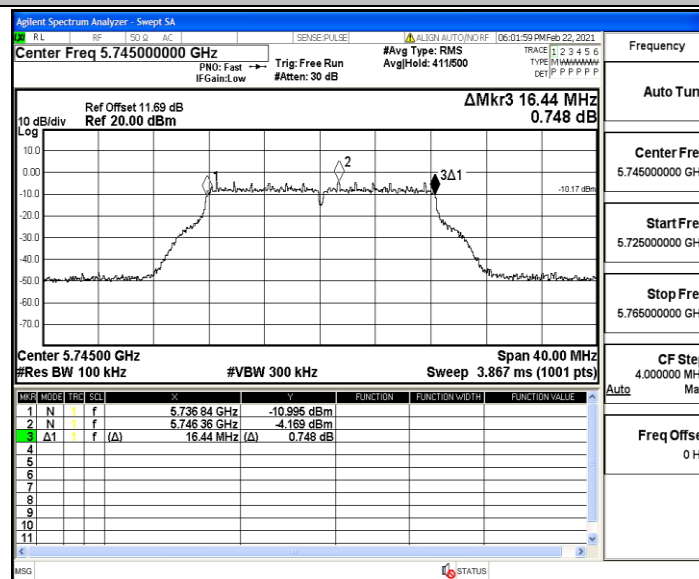
	Ant1	5795	36.560	5776.760	5813.320	0.5	PASS
	Ant2	5795	36.640	5776.760	5813.400	0.5	PASS
11AC80MIMO	Ant1	5775	76.640	5736.760	5813.400	0.5	PASS
	Ant2	5775	76.640	5736.760	5813.400	0.5	PASS
11AX20MIMO	Ant1	5745	19.080	5735.520	5754.600	0.5	PASS
	Ant2	5745	19.160	5735.520	5754.680	0.5	PASS
	Ant1	5785	19.120	5775.520	5794.640	0.5	PASS
	Ant2	5785	19.120	5775.520	5794.640	0.5	PASS
	Ant1	5825	19.080	5815.600	5834.680	0.5	PASS
	Ant2	5825	19.080	5815.560	5834.640	0.5	PASS
11AX40MIMO	Ant1	5755	37.680	5736.200	5773.880	0.5	PASS
	Ant2	5755	37.840	5736.120	5773.960	0.5	PASS
	Ant1	5795	37.680	5776.200	5813.880	0.5	PASS
	Ant2	5795	37.760	5776.200	5813.960	0.5	PASS
11AX80MIMO	Ant1	5775	77.760	5736.280	5814.040	0.5	PASS
	Ant2	5775	77.280	5736.760	5814.040	0.5	PASS

Test Graphs

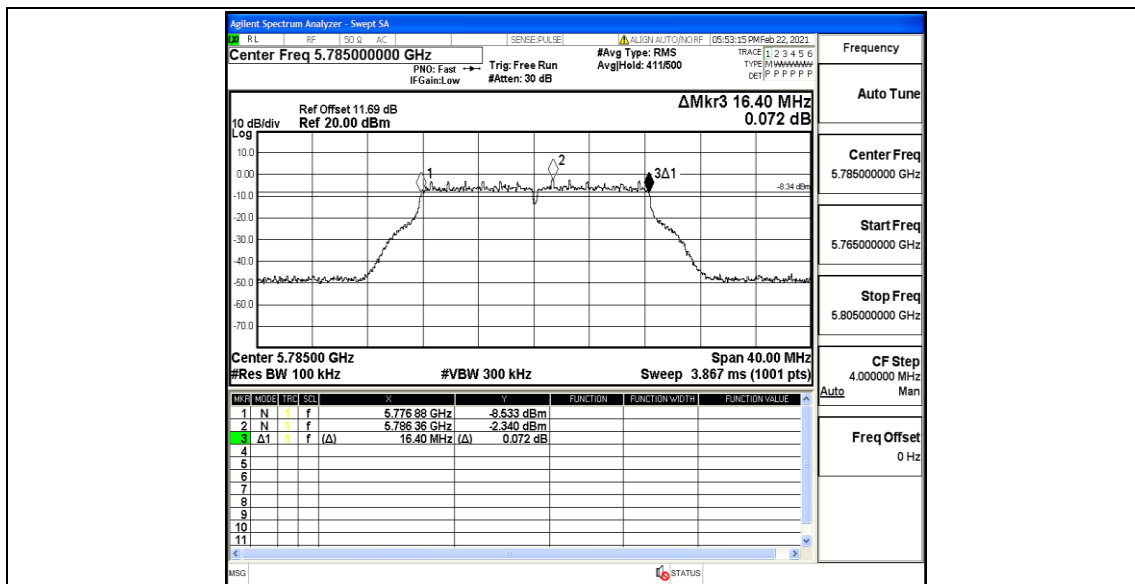
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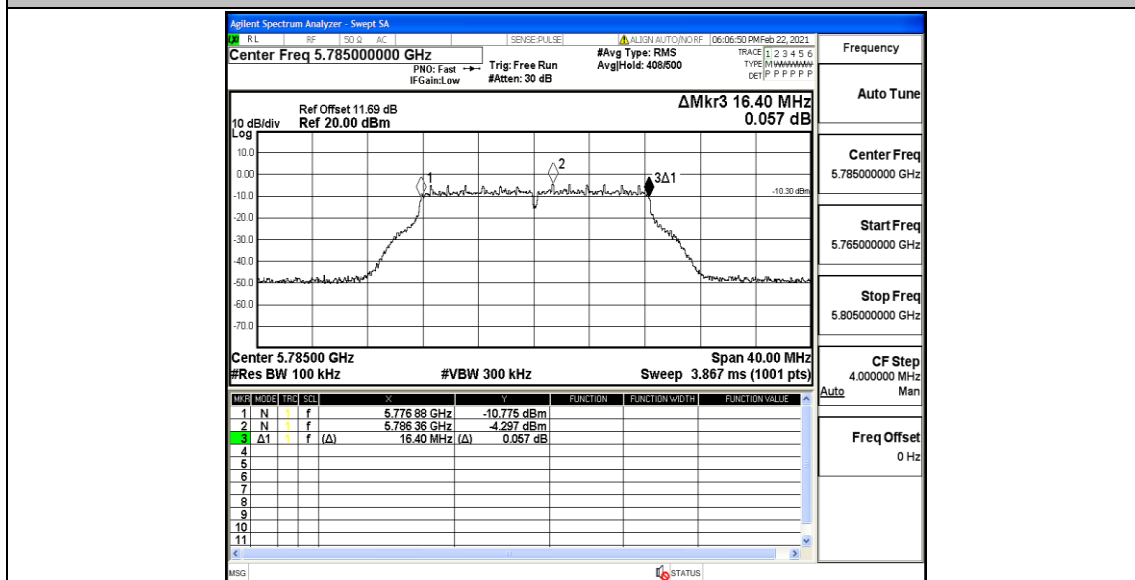
11A_Ant2_5745



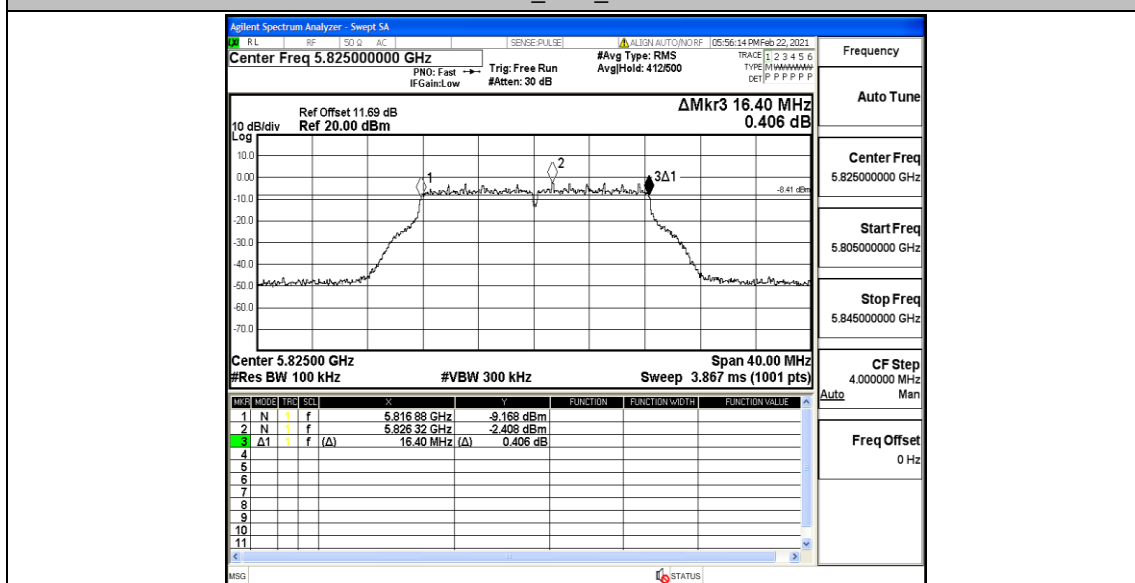
11A_Ant1_5785



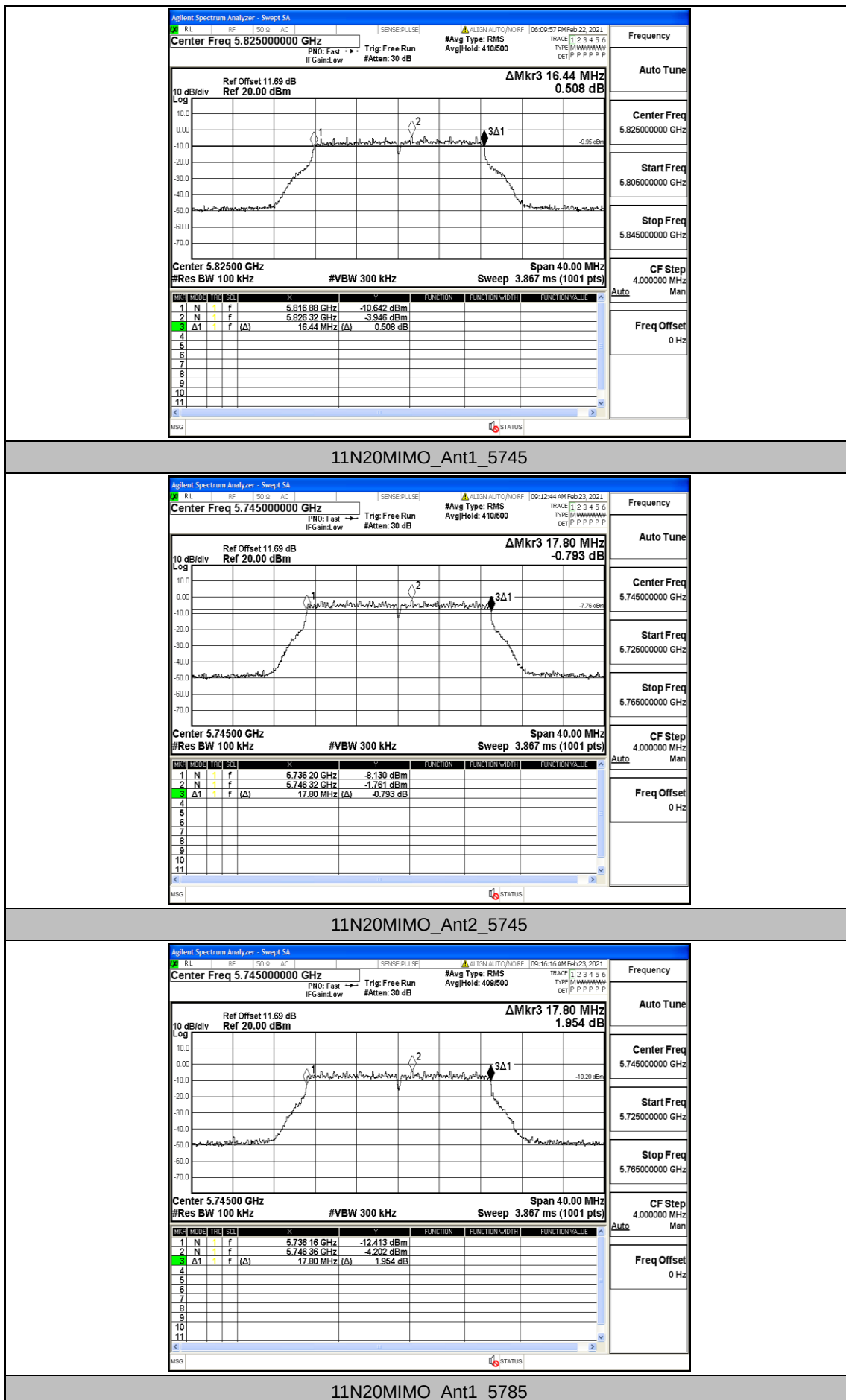
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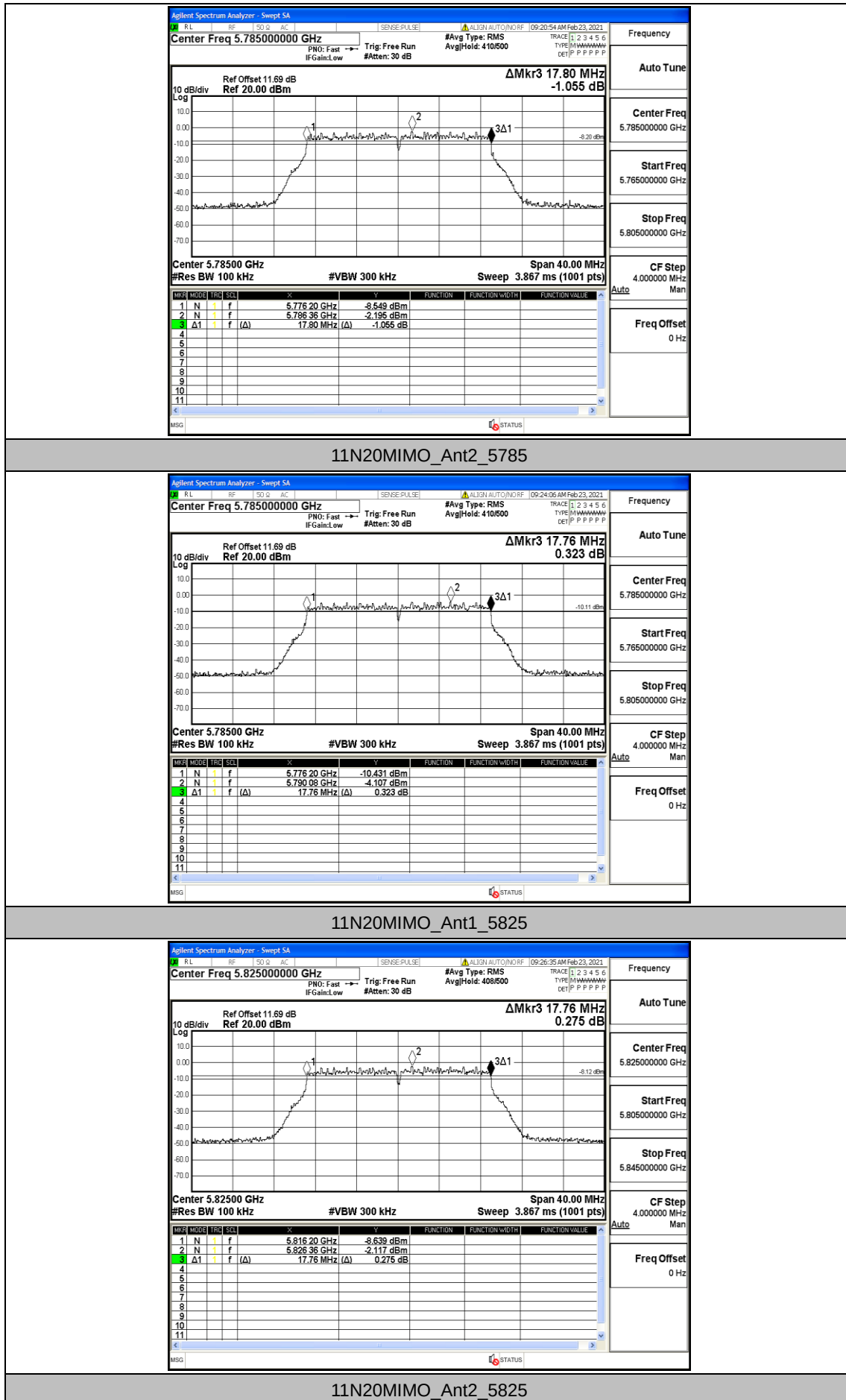


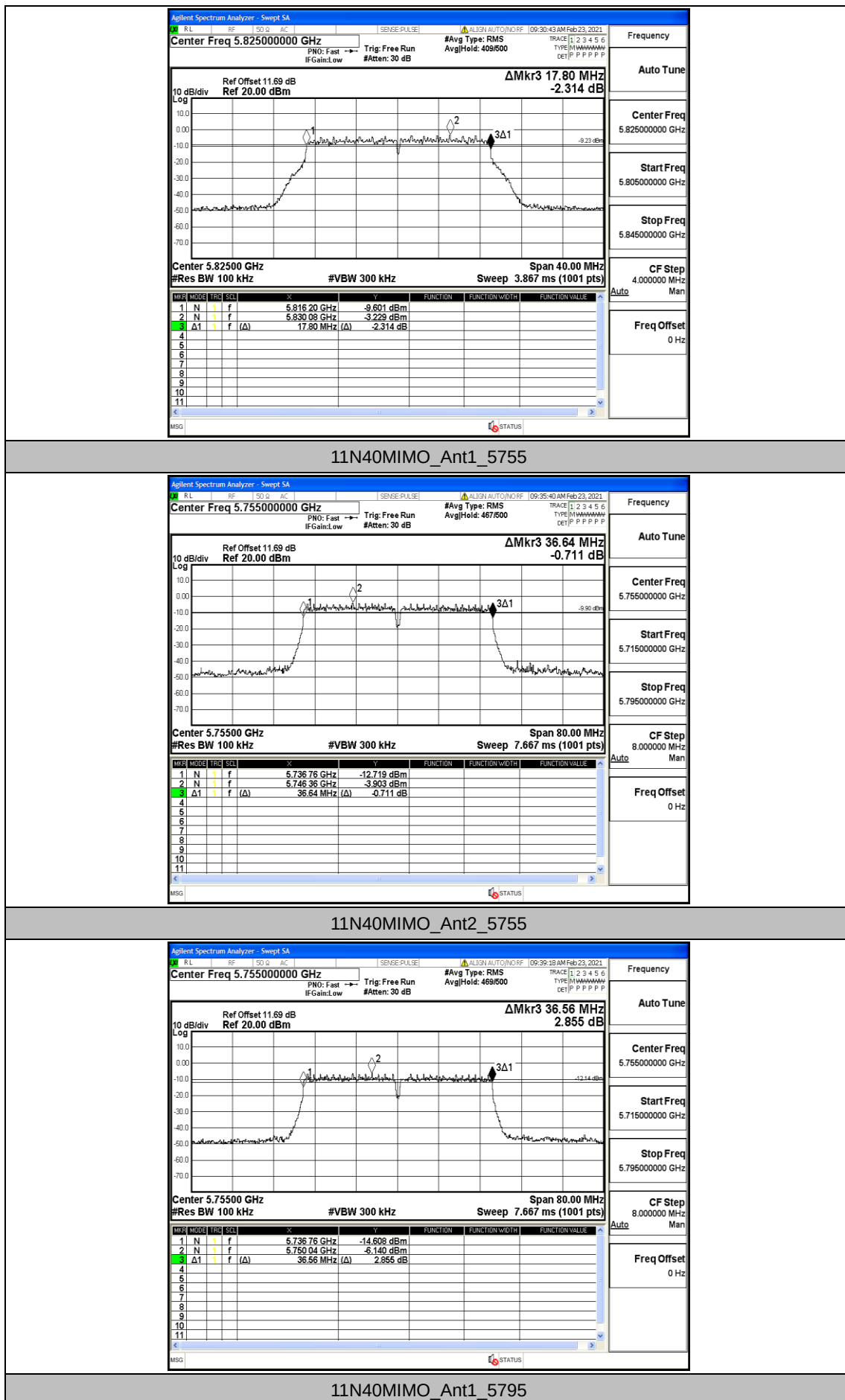
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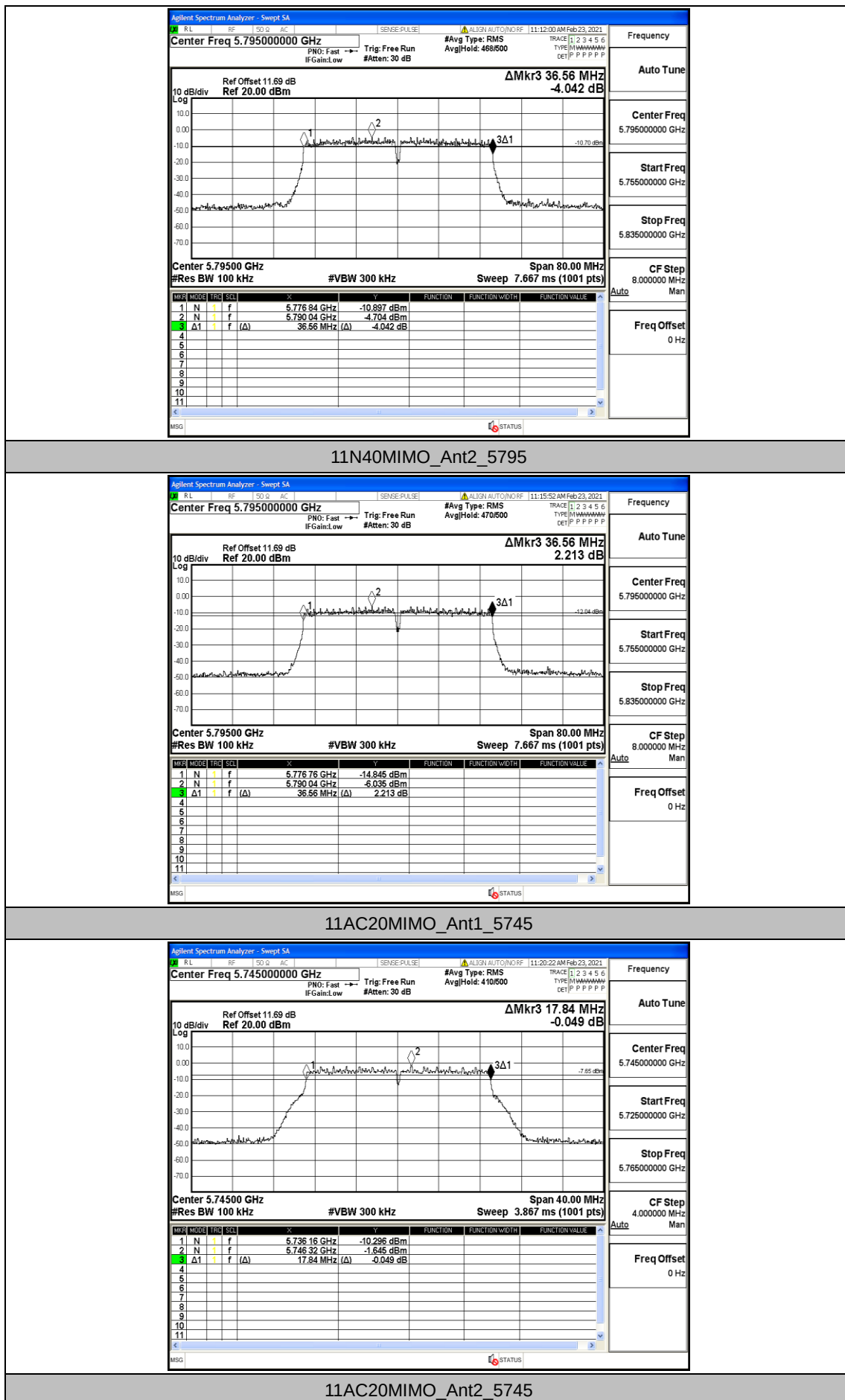


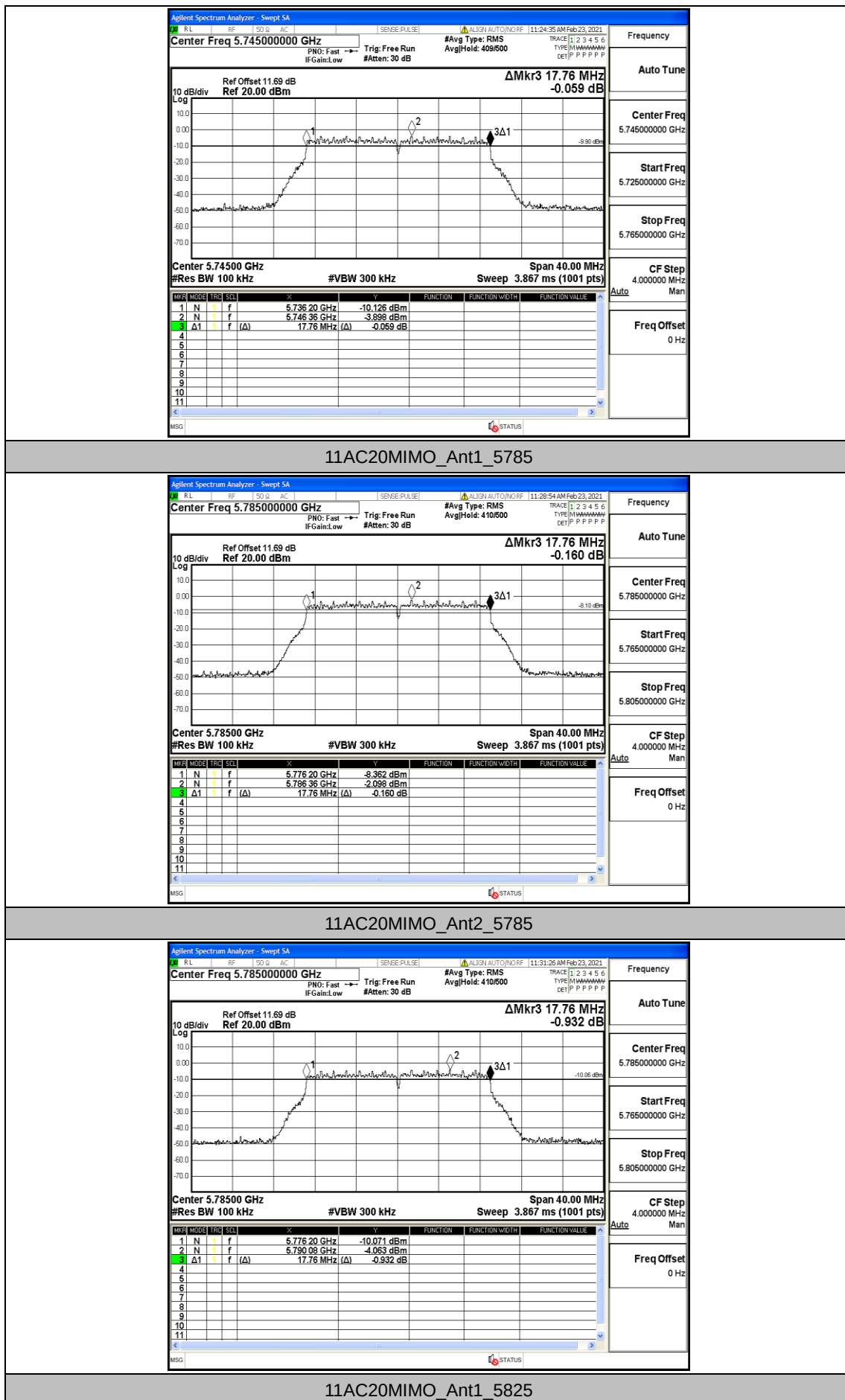
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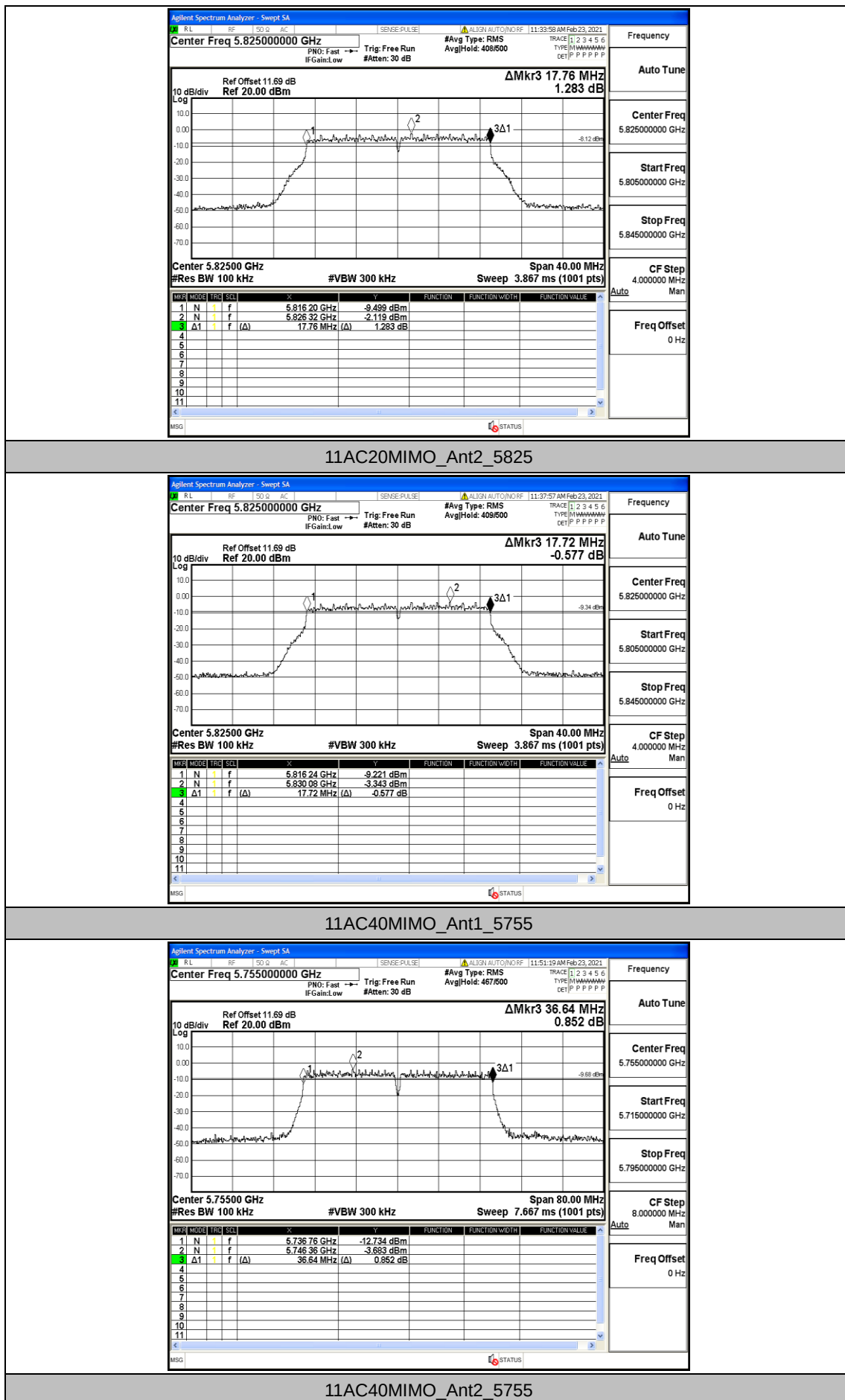


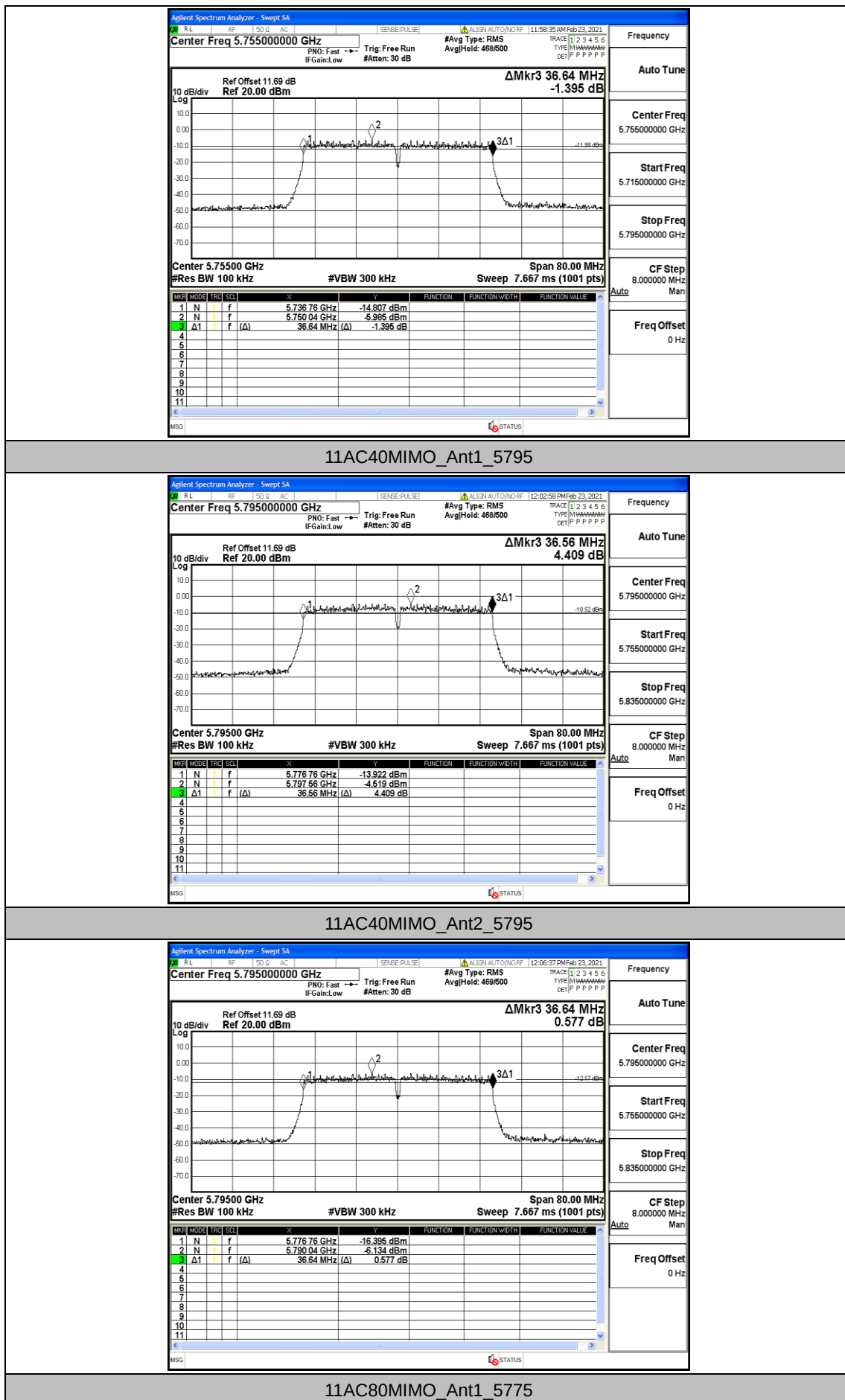


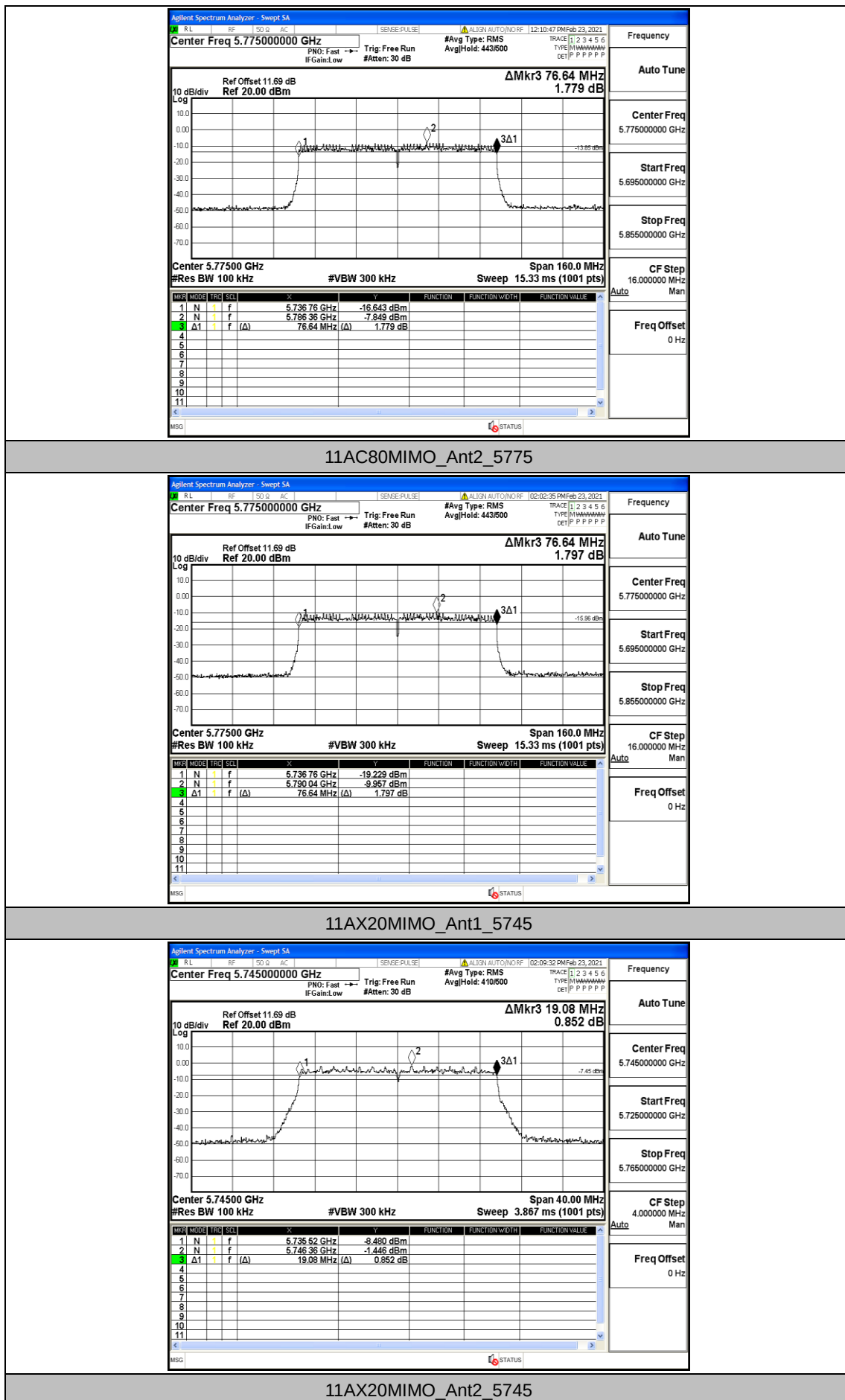


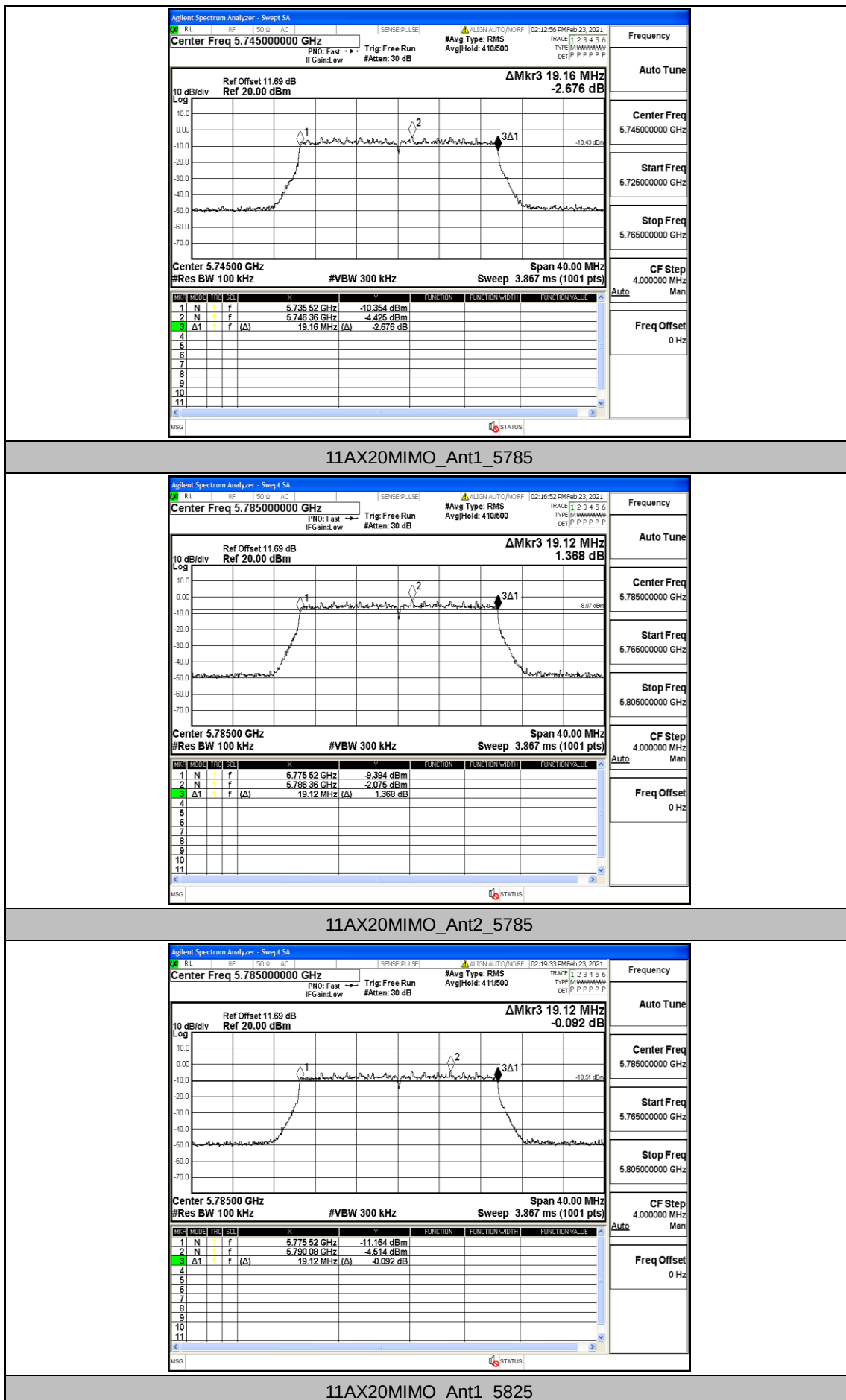


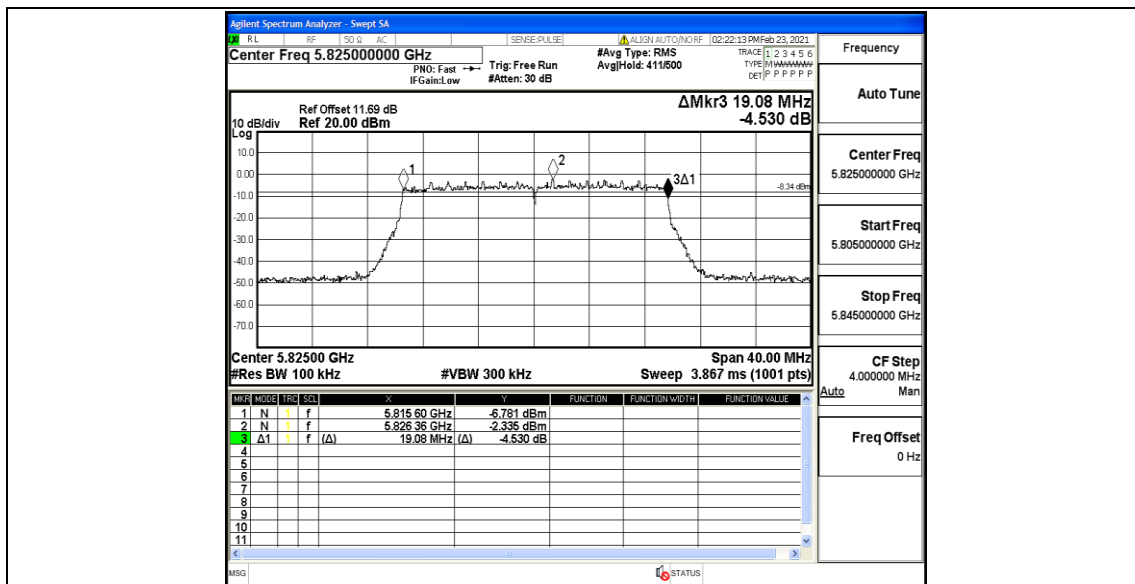




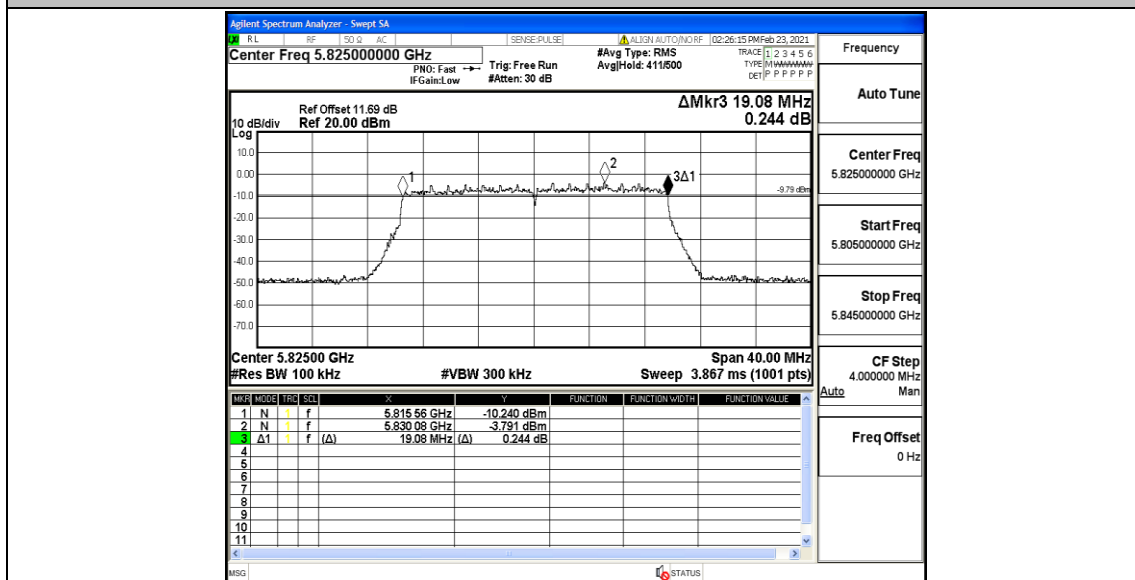




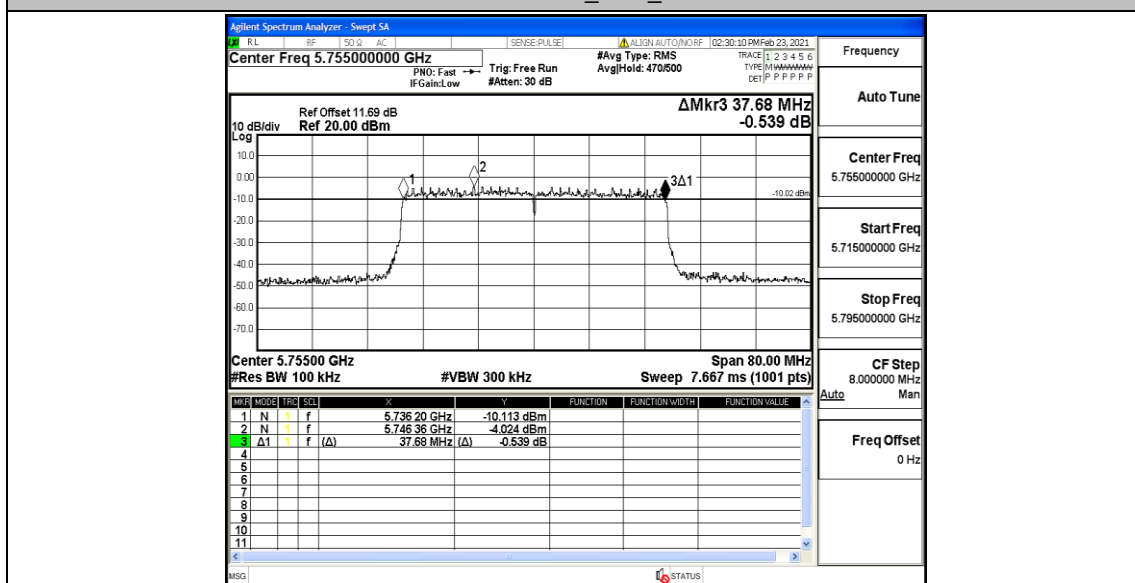




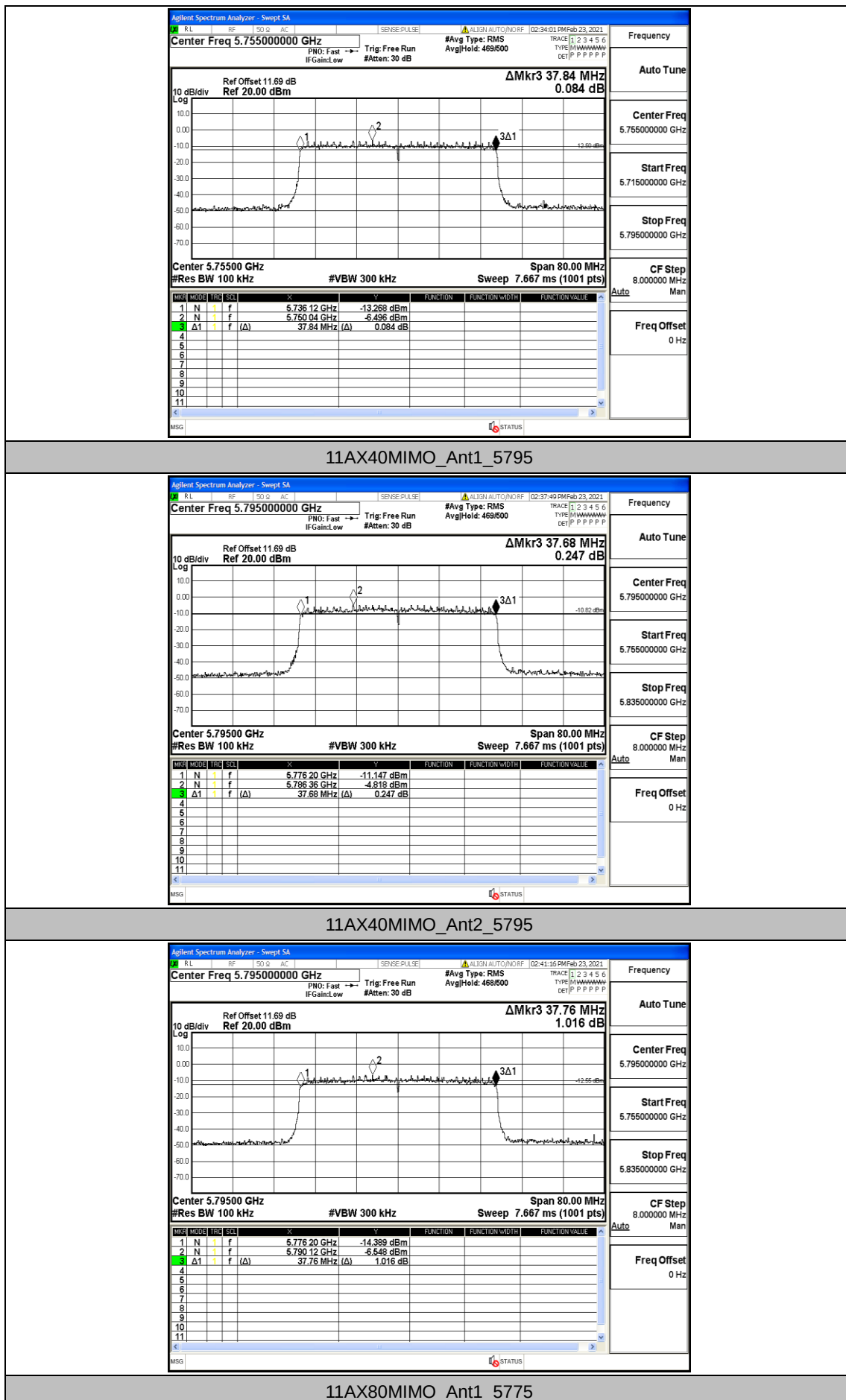
11AX20MIMO_Ant2_5825

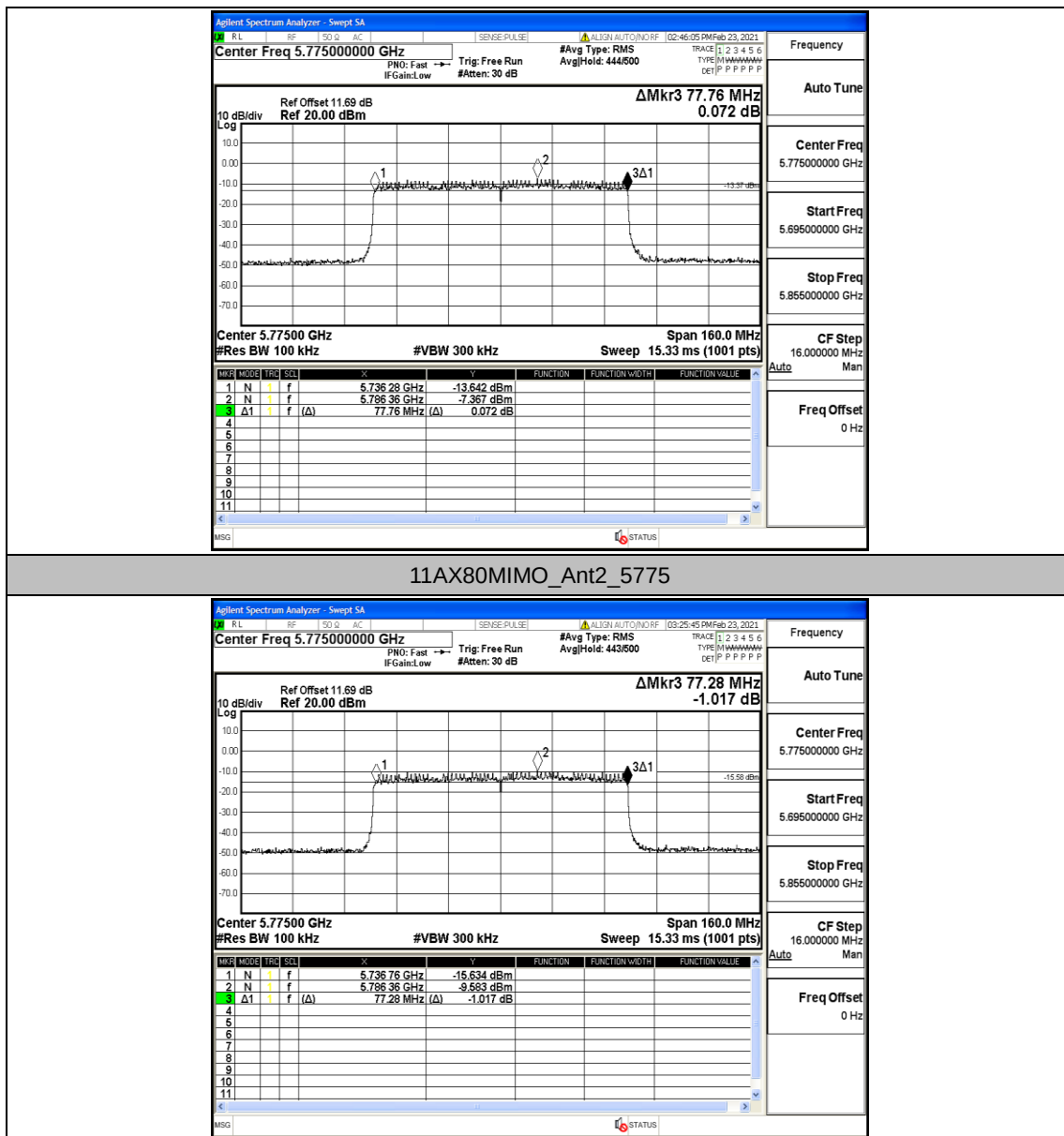


11AX40MIMO_Ant1_5755



11AX40MIMO_Ant2_5755





Appendix B: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5745	9.61	<=30	PASS
	Ant2	5745	7.25	<=28.80	PASS
	Ant1	5785	9.03	<=30	PASS
	Ant2	5785	7.01	<=28.80	PASS
	Ant1	5825	8.96	<=30	PASS
	Ant2	5825	7.55	<=28.80	PASS
11N20MIMO	Ant1	5745	9.60	<=30	PASS
	Ant2	5745	7.48	<=28.80	PASS
	total	5745	11.7	<=26.40	PASS
	Ant1	5785	8.99	<=30	PASS
	Ant2	5785	7.21	<=28.80	PASS
	total	5785	11.2	<=26.40	PASS
	Ant1	5825	9.06	<=30	PASS
	Ant2	5825	7.87	<=28.80	PASS
	total	5825	11.5	<=26.40	PASS
11N40MIMO	Ant1	5755	9.34	<=30	PASS
	Ant2	5755	7.73	<=28.80	PASS
	total	5755	11.6	<=26.40	PASS
	Ant1	5795	8.77	<=30	PASS
	Ant2	5795	7.84	<=28.80	PASS
	total	5795	11.3	<=26.40	PASS
11AC20MIMO	Ant1	5745	9.63	<=30	PASS
	Ant2	5745	7.56	<=28.80	PASS
	total	5745	11.7	<=26.40	PASS
	Ant1	5785	9.08	<=30	PASS
	Ant2	5785	7.20	<=28.80	PASS
	total	5785	11.3	<=26.40	PASS
	Ant1	5825	9.11	<=30	PASS
	Ant2	5825	7.75	<=28.80	PASS
	total	5825	11.5	<=26.40	PASS
11AC40MIMO	Ant1	5755	10.41	<=30	PASS
	Ant2	5755	7.81	<=28.80	PASS
	total	5755	12.3	<=26.40	PASS
	Ant1	5795	9.63	<=30	PASS
	Ant2	5795	7.41	<=28.80	PASS
	total	5795	11.7	<=26.40	PASS
11AC80MIMO	Ant1	5775	9.06	<=30	PASS
	Ant2	5775	6.93	<=28.80	PASS
	total	5775	11.1	<=26.40	PASS

11AX20MIMO	Ant1	5745	9.84	<=30	PASS
	Ant2	5745	7.26	<=28.80	PASS
	total	5745	11.7	<=26.40	PASS
	Ant1	5785	9.16	<=30	PASS
	Ant2	5785	6.99	<=28.80	PASS
	total	5785	11.2	<=26.40	PASS
	Ant1	5825	9.05	<=30	PASS
	Ant2	5825	7.63	<=28.80	PASS
	total	5825	11.4	<=26.40	PASS
11AX40MIMO	Ant1	5755	9.76	<=30	PASS
	Ant2	5755	7.61	<=28.80	PASS
	total	5755	11.8	<=26.40	PASS
	Ant1	5795	9.17	<=30	PASS
	Ant2	5795	7.54	<=28.80	PASS
	total	5795	11.4	<=26.40	PASS
11AX80MIMO	Ant1	5775	9.32	<=30	PASS
	Ant2	5775	6.15	<=28.80	PASS
	total	5775	11.0	<=26.40	PASS

Appendix C: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	2.94	<=30	PASS
	Ant2	5745	0.02	<=28.80	PASS
	Ant1	5785	1.86	<=30	PASS
	Ant2	5785	-0.62	<=28.80	PASS
	Ant1	5825	2.15	<=30	PASS
	Ant2	5825	0.44	<=28.80	PASS
11N20MIMO	Ant1	5745	3.03	<=30	PASS
	Ant2	5745	0.42	<=28.80	PASS
	total	5745	4.93	<=26.40	PASS
	Ant1	5785	3.22	<=30	PASS
	Ant2	5785	0.83	<=28.80	PASS
	total	5785	5.20	<=26.40	PASS
	Ant1	5825	2.42	<=30	PASS
	Ant2	5825	1.4	<=28.80	PASS
	total	5825	4.95	<=26.40	PASS
11N40MIMO	Ant1	5755	0.21	<=30	PASS
	Ant2	5755	-1.4	<=28.80	PASS
	total	5755	2.49	<=26.40	PASS
	Ant1	5795	-0.73	<=30	PASS
	Ant2	5795	-1	<=28.80	PASS
	total	5795	2.15	<=26.40	PASS
11AC20MIMO	Ant1	5745	2.91	<=30	PASS
	Ant2	5745	0.64	<=28.80	PASS
	total	5745	4.93	<=26.40	PASS
	Ant1	5785	2.69	<=30	PASS
	Ant2	5785	0.59	<=28.80	PASS
	total	5785	4.78	<=26.40	PASS
	Ant1	5825	2.44	<=30	PASS
	Ant2	5825	1.76	<=28.80	PASS
	total	5825	5.12	<=26.40	PASS
11AC40MIMO	Ant1	5755	1.03	<=30	PASS
	Ant2	5755	-1.77	<=28.80	PASS
	total	5755	2.86	<=26.40	PASS
	Ant1	5795	0.6	<=30	PASS
	Ant2	5795	-2.15	<=28.80	PASS
	total	5795	2.45	<=26.40	PASS
11AC80MIMO	Ant1	5775	-3.93	<=30	PASS
	Ant2	5775	-6.15	<=28.80	PASS
	total	5775	-1.89	<=26.40	PASS

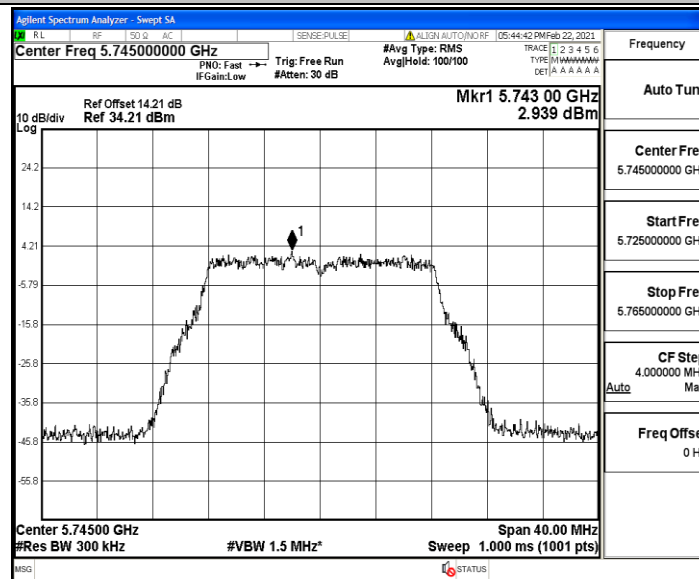
11AX20MIMO	Ant1	5745	3.54	≤ 30	PASS
	Ant2	5745	2.04	≤ 28.80	PASS
	total	5745	5.86	≤ 26.40	PASS
	Ant1	5785	3.11	≤ 30	PASS
	Ant2	5785	0.71	≤ 28.80	PASS
	total	5785	5.08	≤ 26.40	PASS
	Ant1	5825	3.13	≤ 30	PASS
	Ant2	5825	1.65	≤ 28.80	PASS
	total	5825	5.46	≤ 26.40	PASS
11AX40MIMO	Ant1	5755	1.13	≤ 30	PASS
	Ant2	5755	-1.3	≤ 28.80	PASS
	total	5755	3.09	≤ 26.40	PASS
	Ant1	5795	0.71	≤ 30	PASS
	Ant2	5795	-1.21	≤ 28.80	PASS
	total	5795	2.87	≤ 26.40	PASS
11AX80MIMO	Ant1	5775	-2.99	≤ 30	PASS
	Ant2	5775	-6.27	≤ 28.80	PASS
	total	5775	-1.32	≤ 26.40	PASS

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

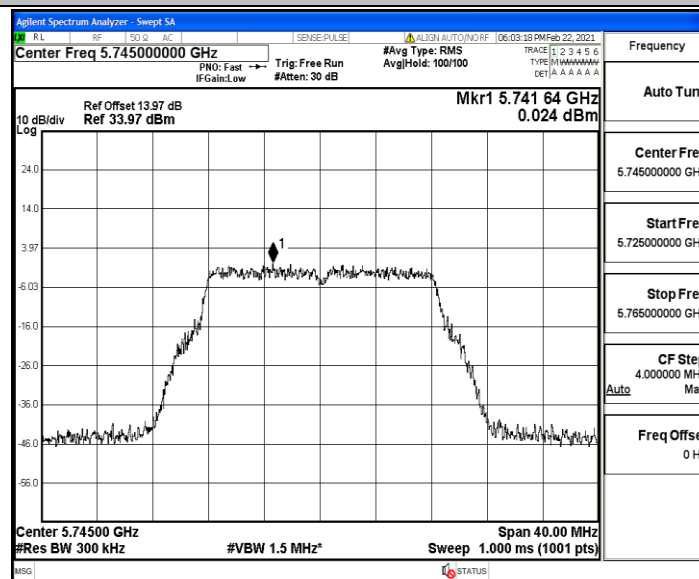
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

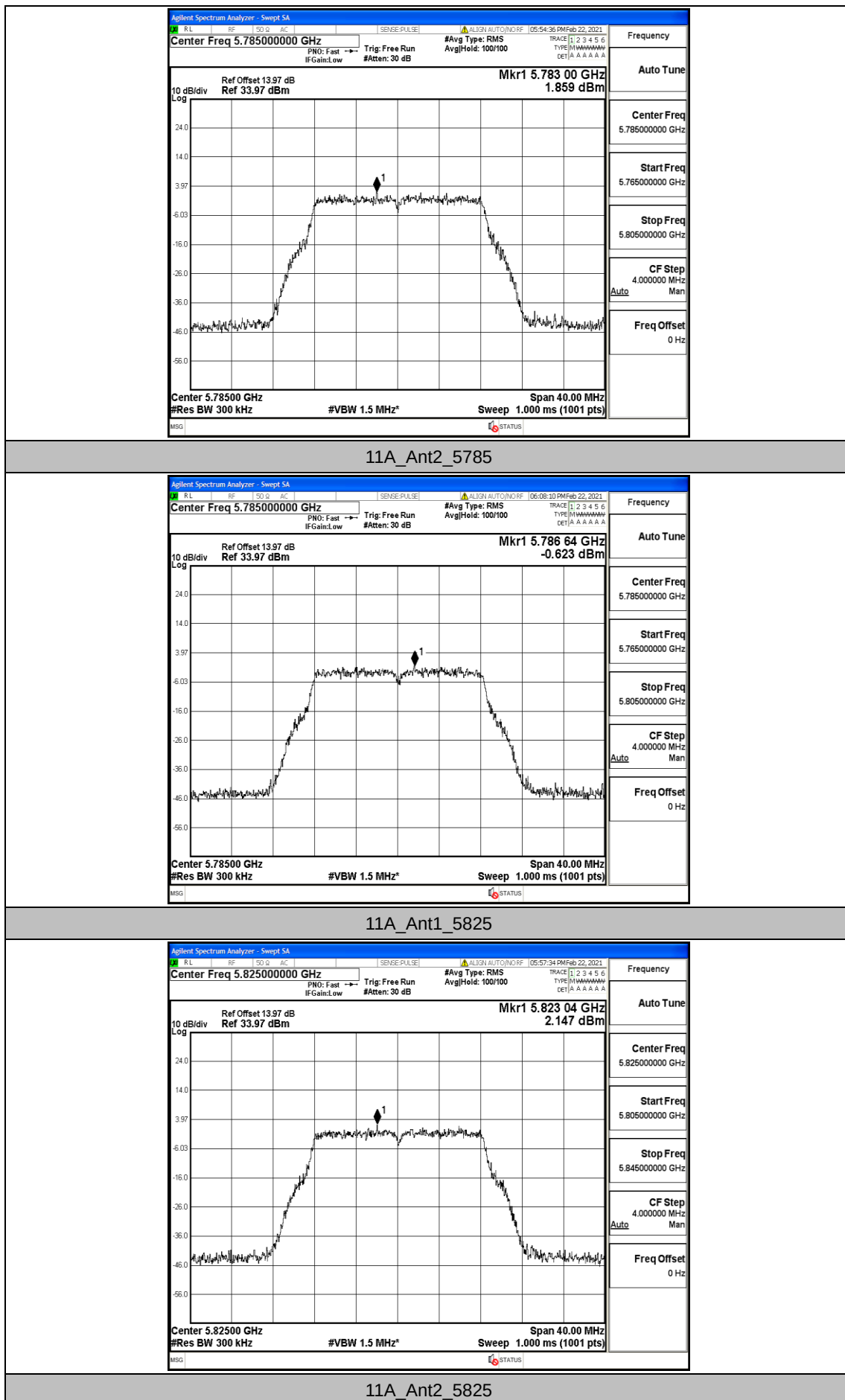
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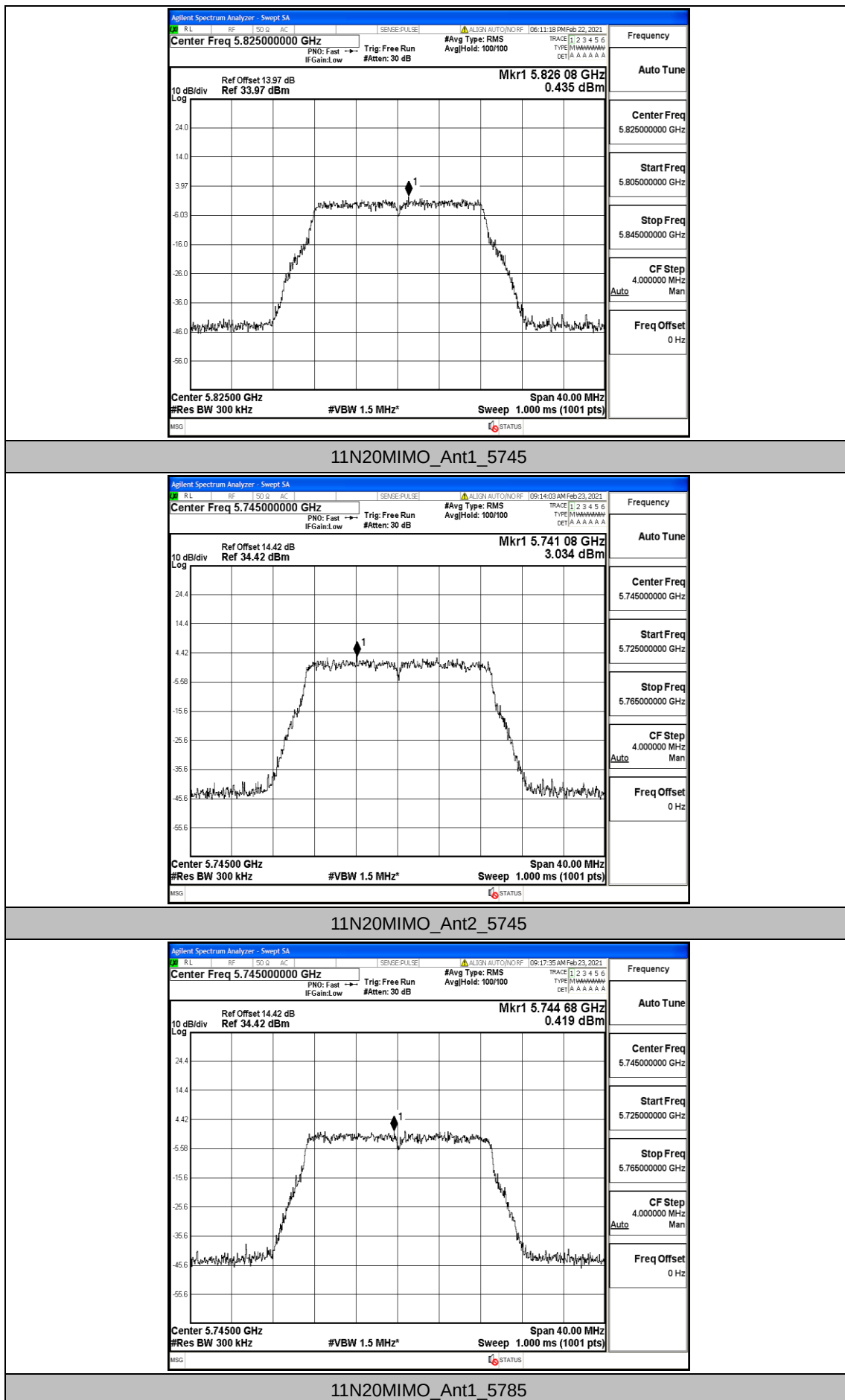


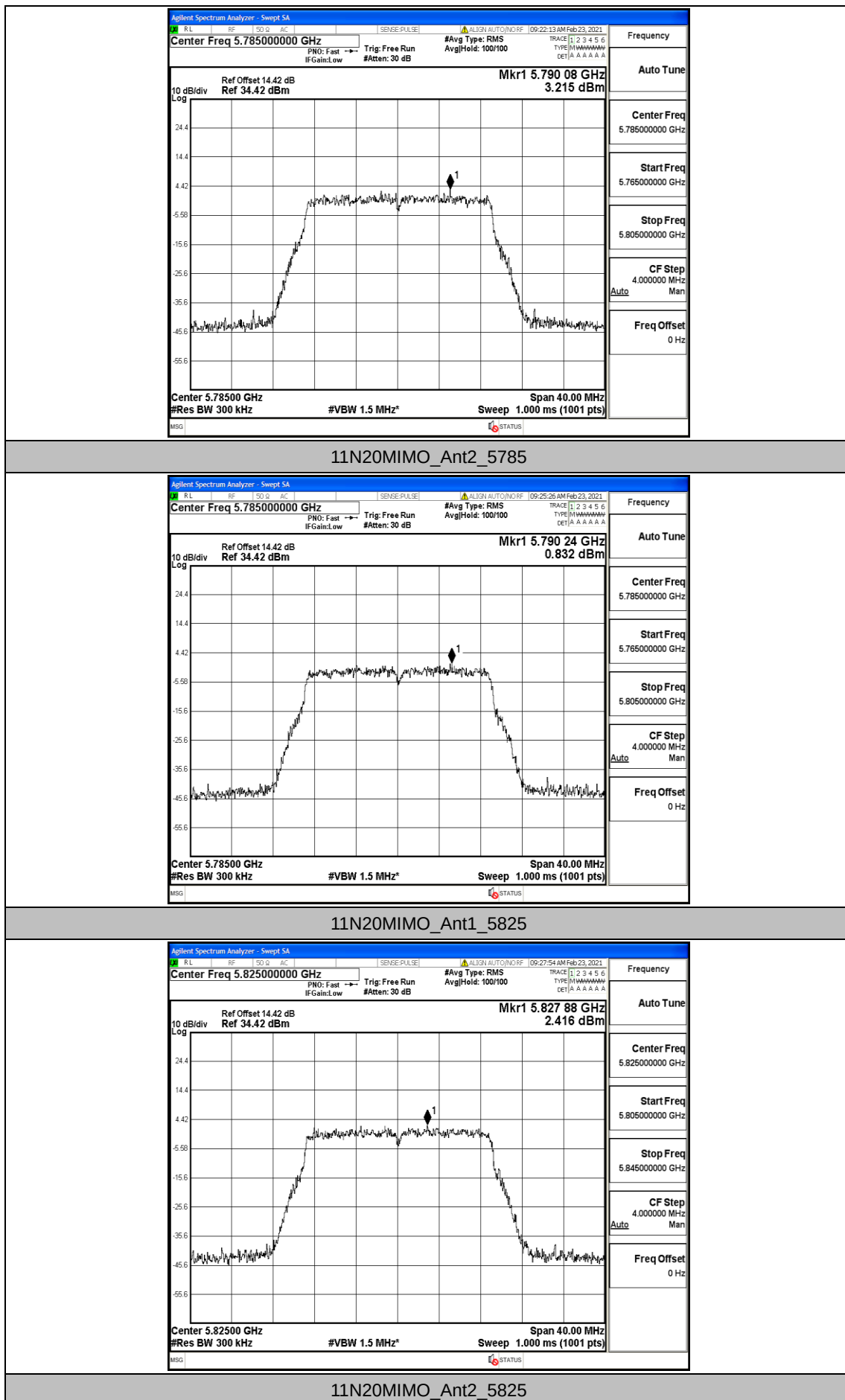
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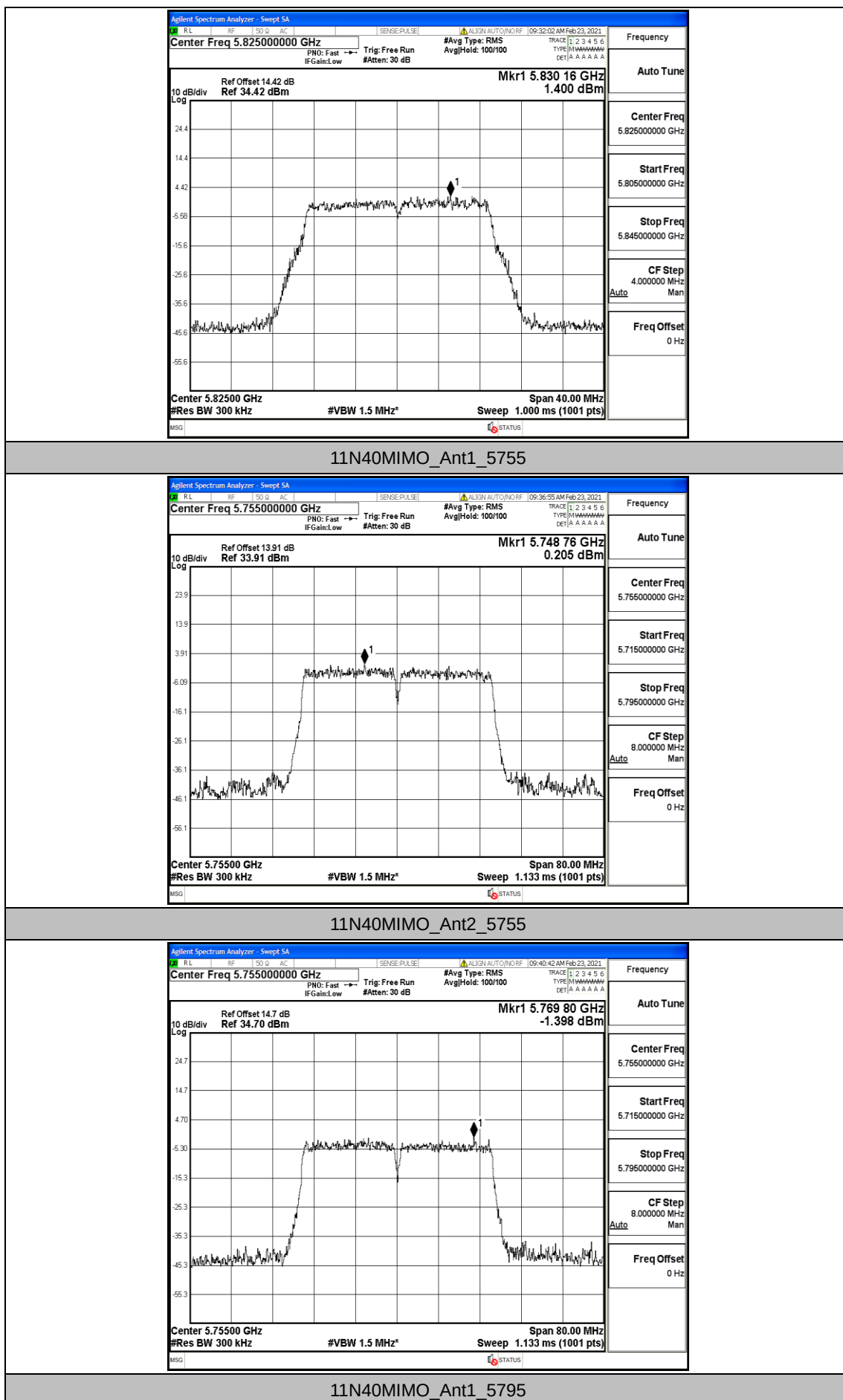


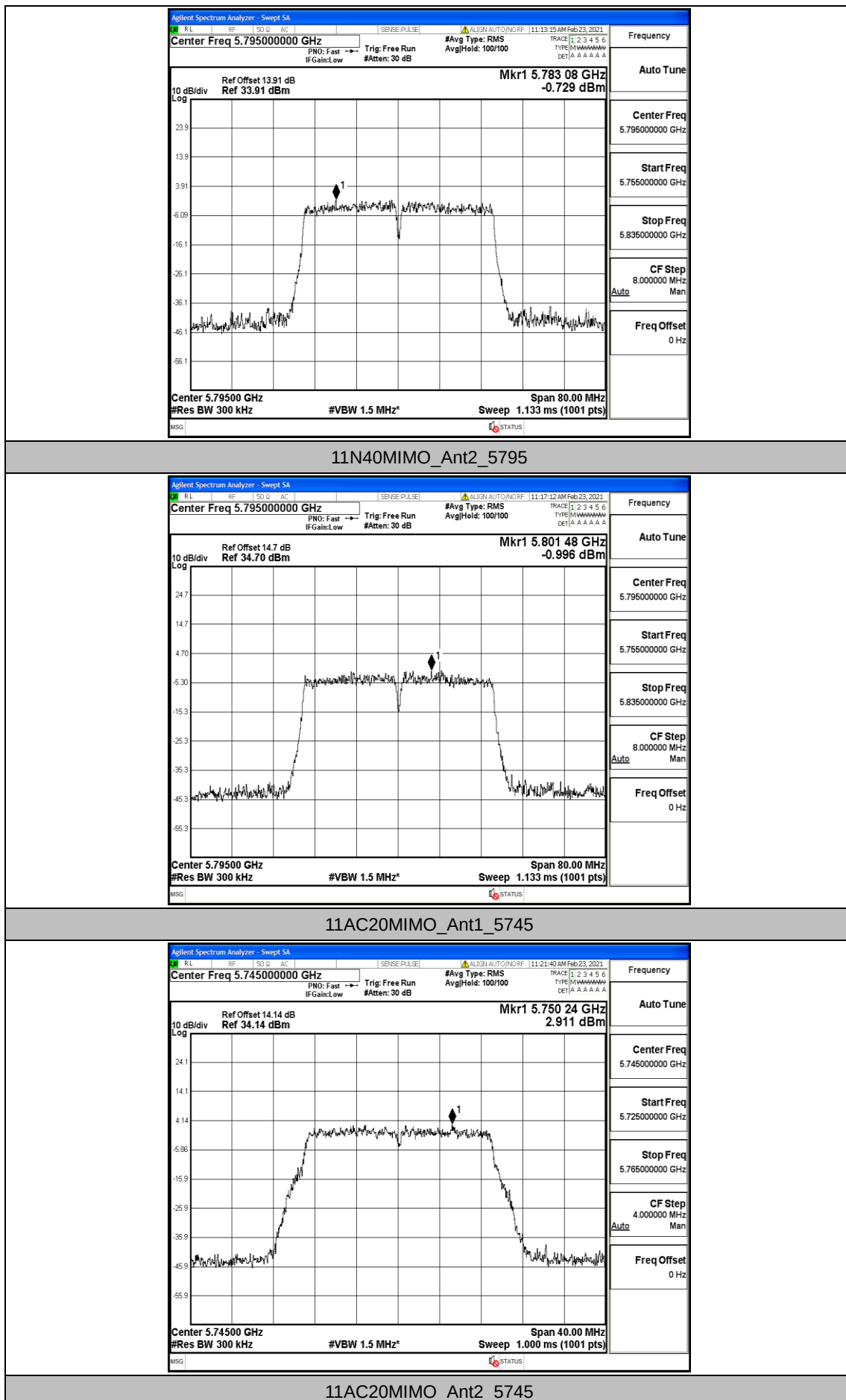
11A_Ant1_5785

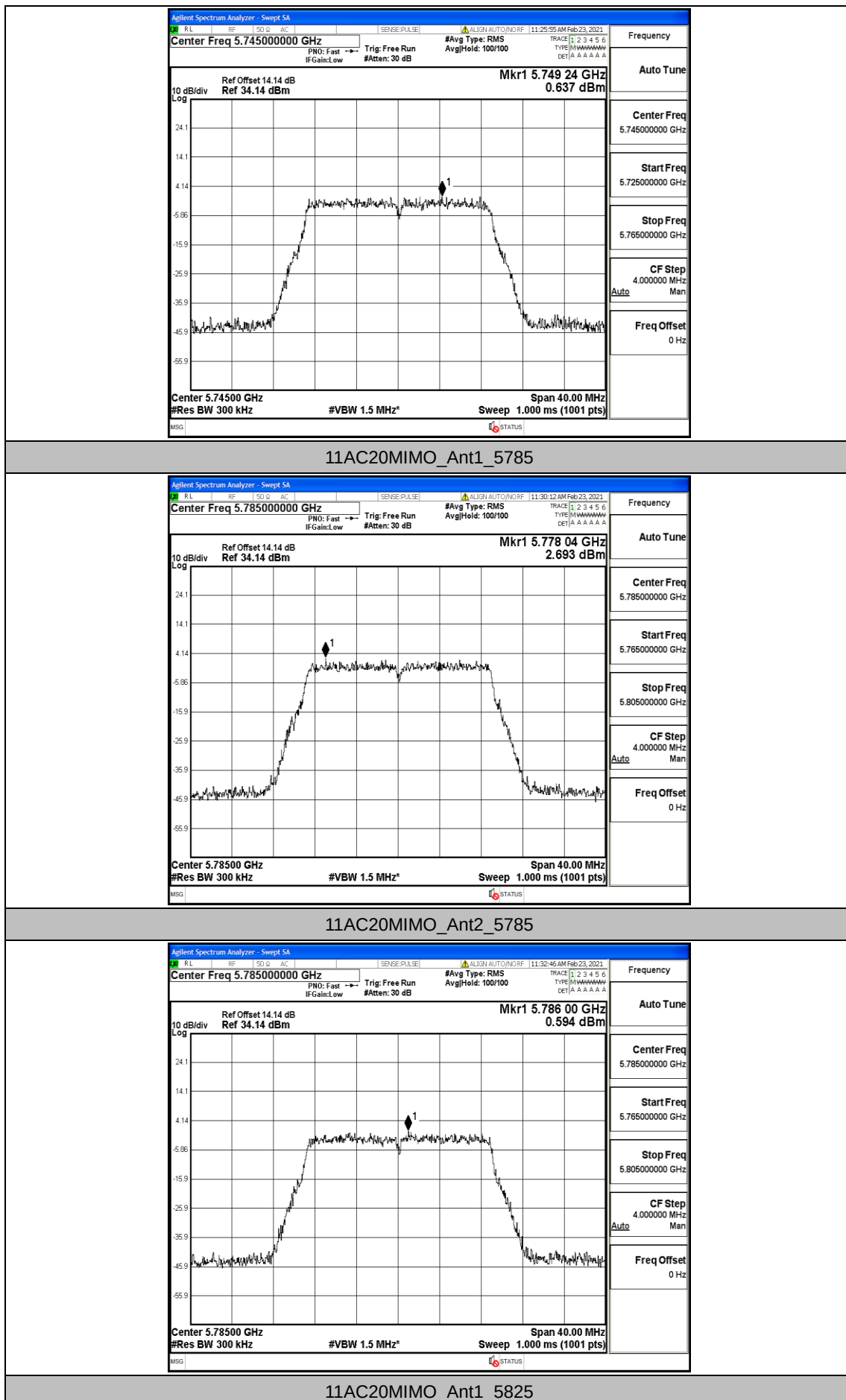


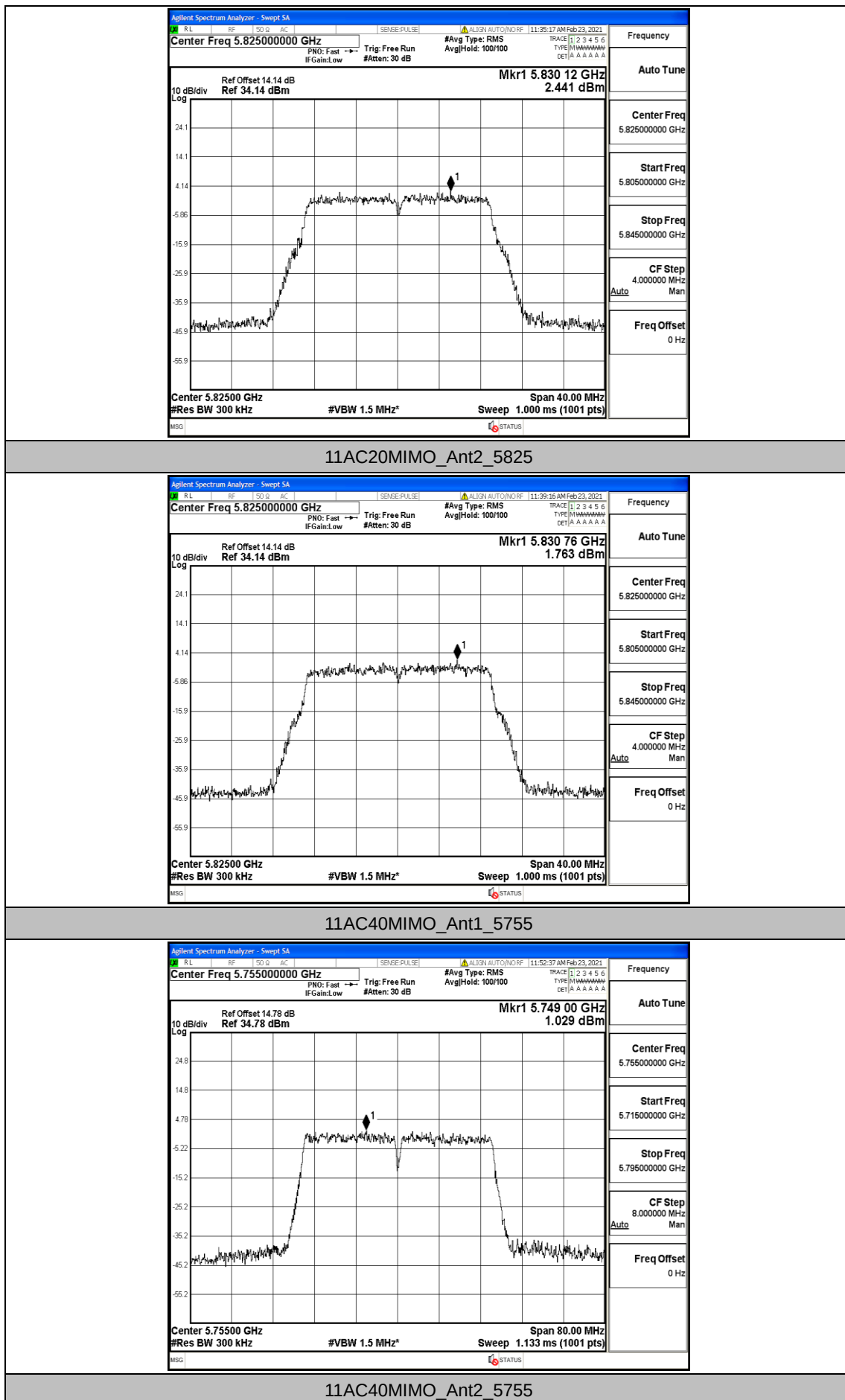


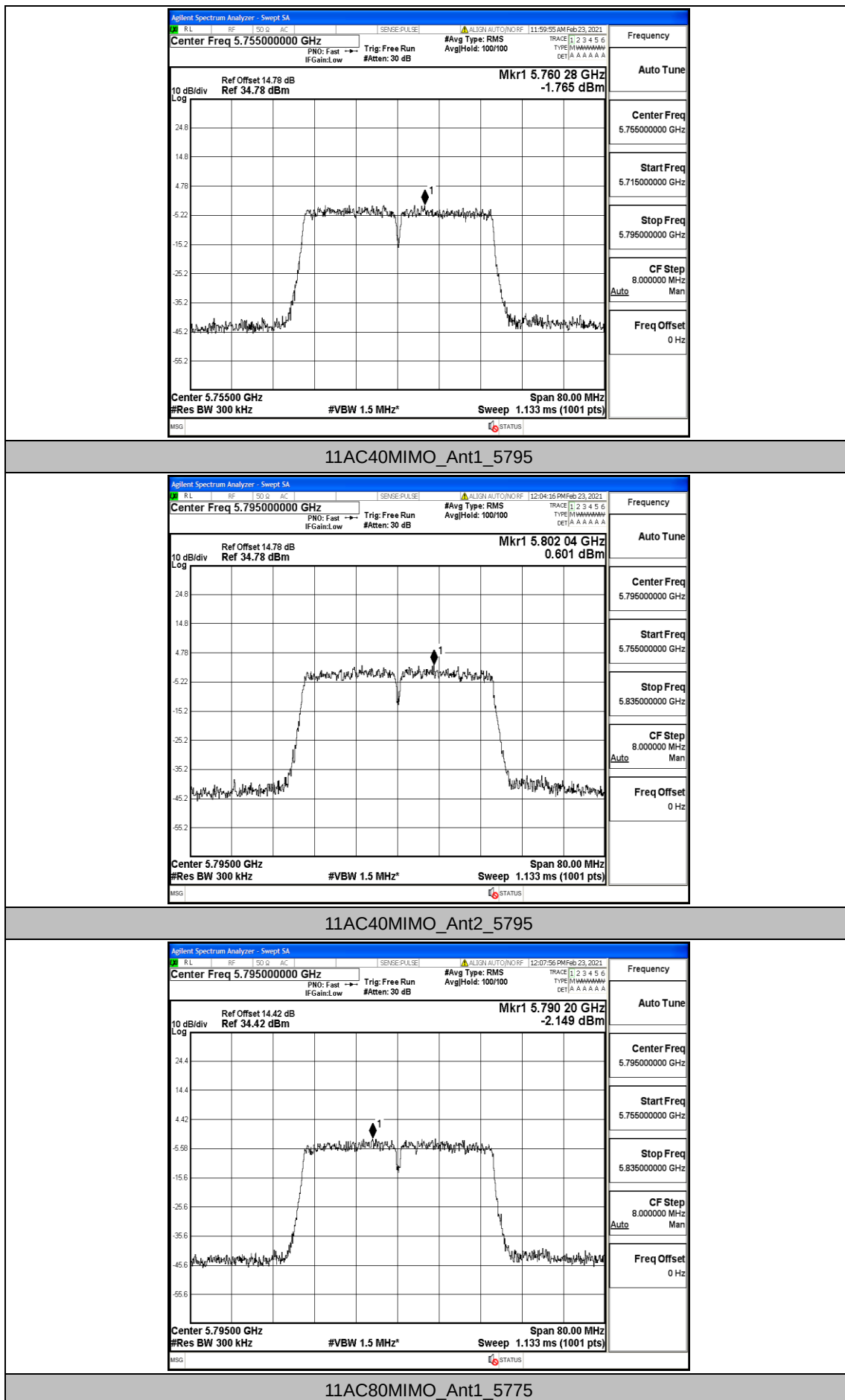


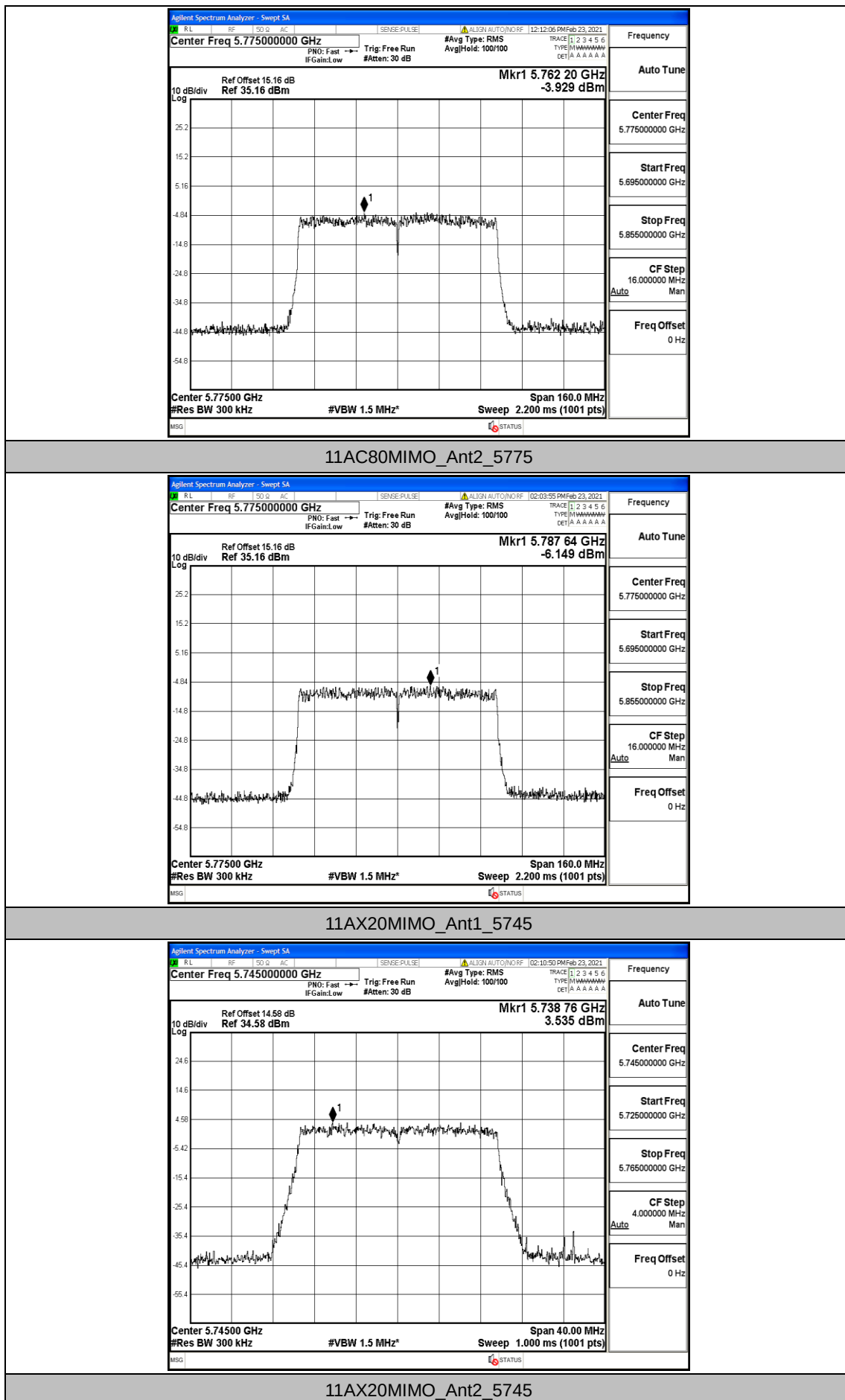


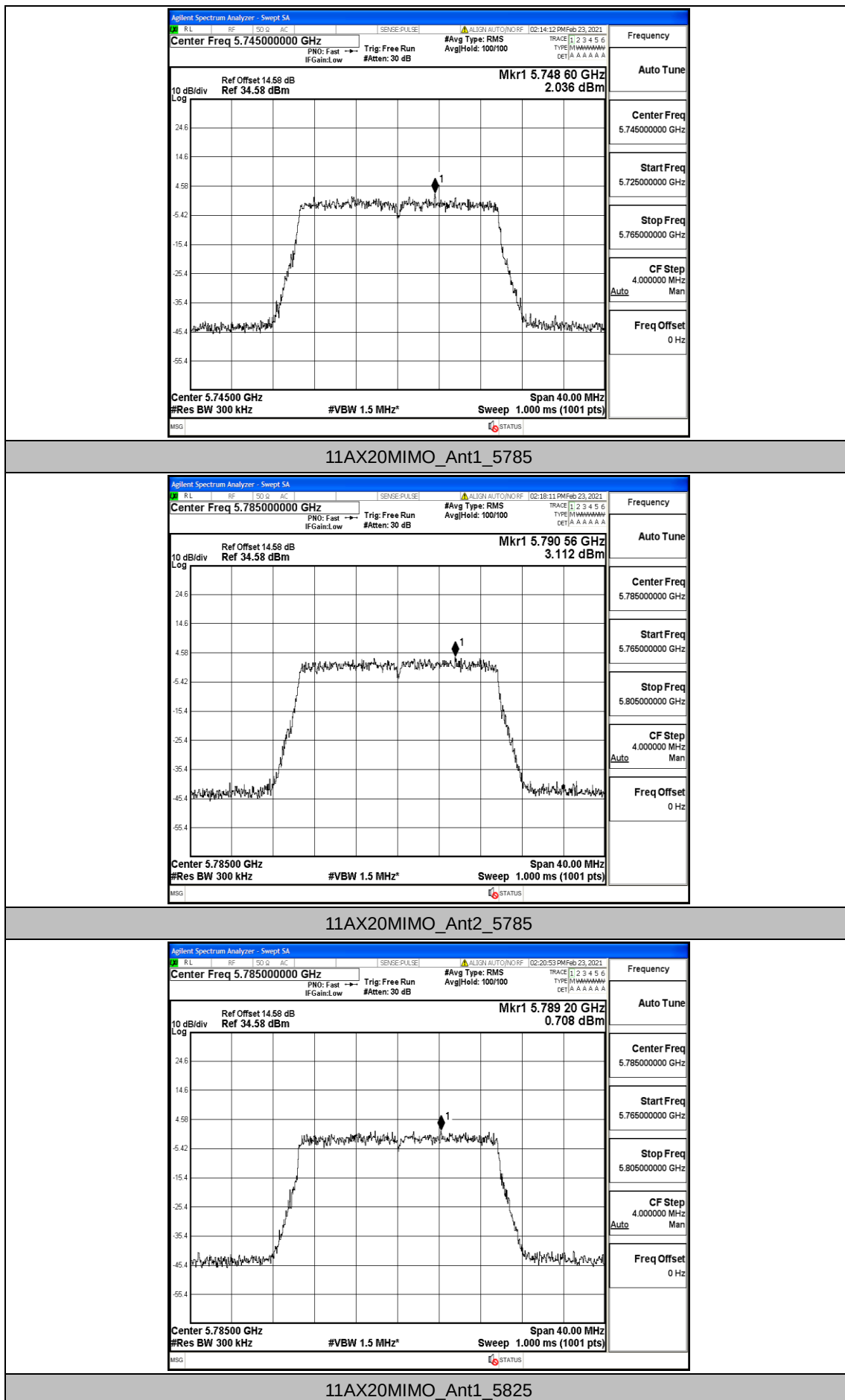


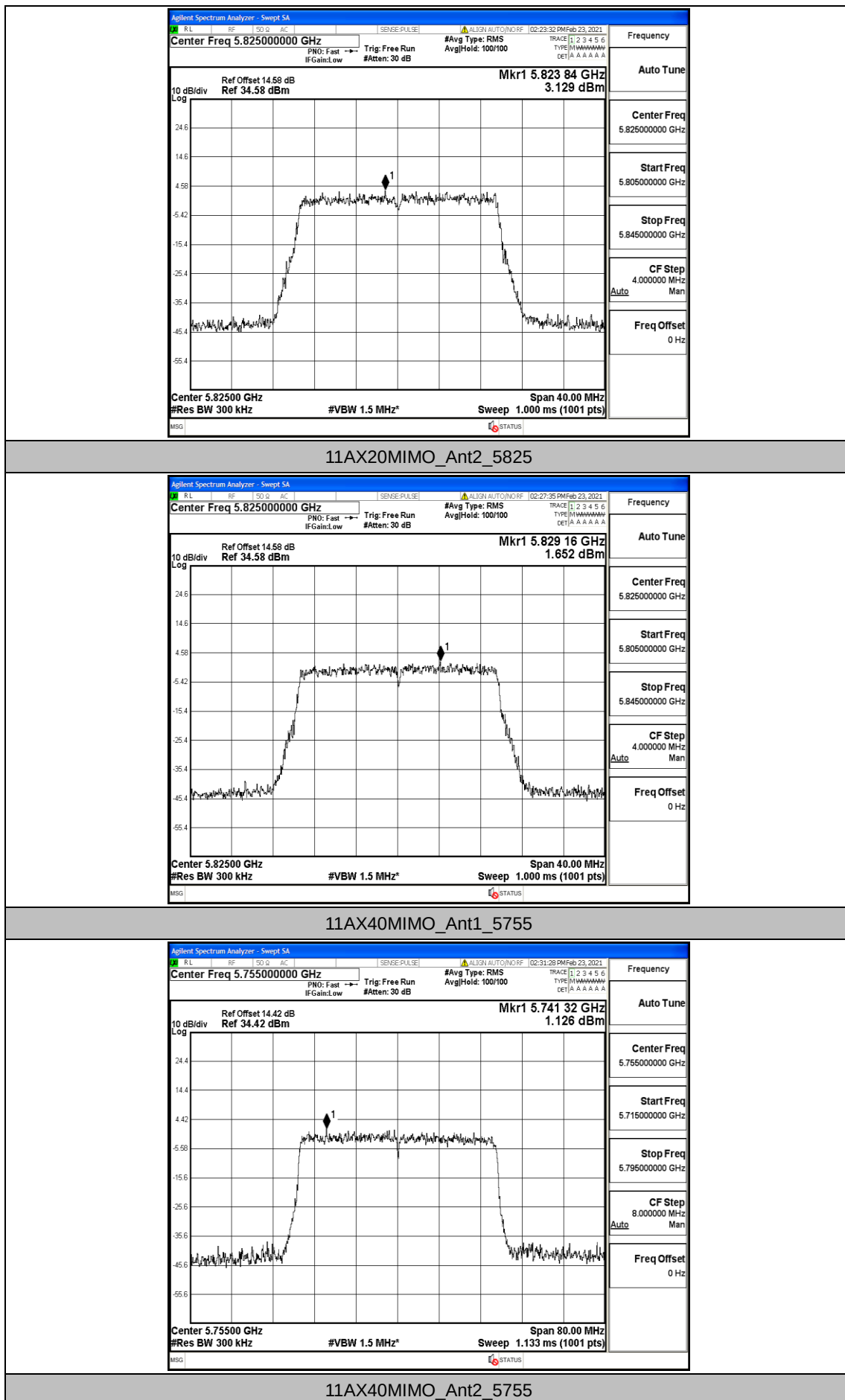


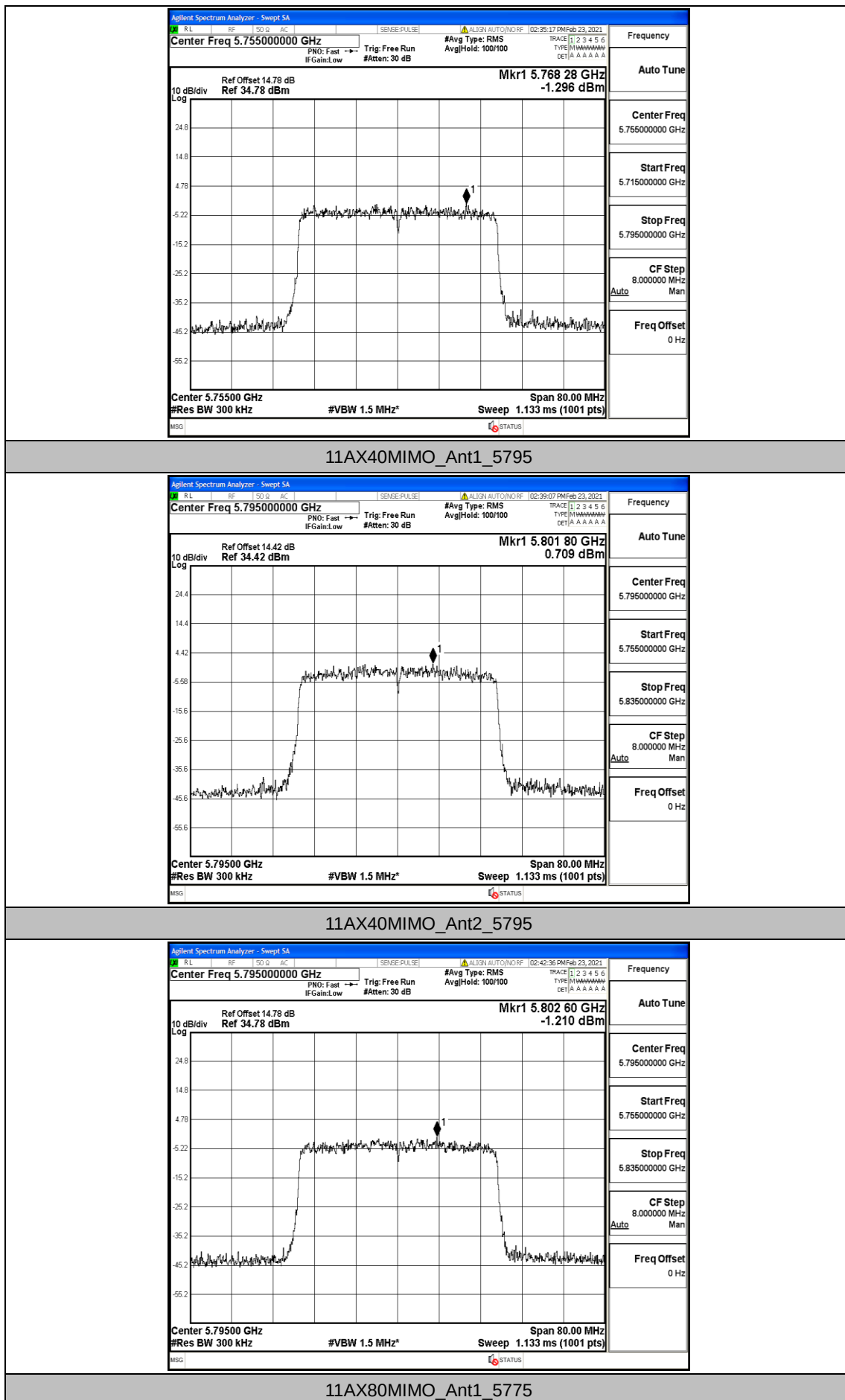


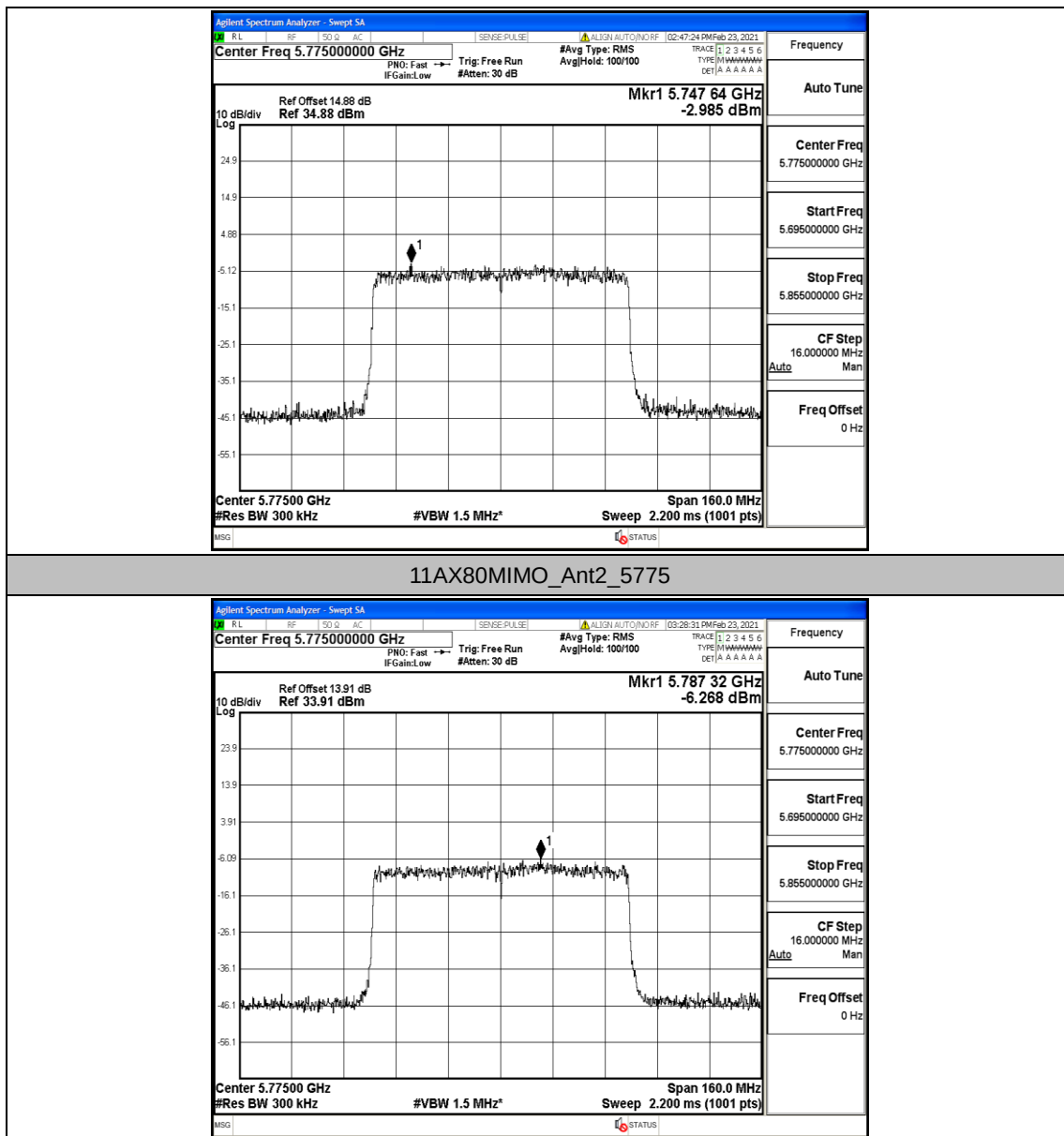












Appendix D: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-40.77	<=-3.21	PASS
				5700~5720	-41.3	<=15.56	PASS
				5720~5725	-41.92	<=25.52	PASS
				5760~5650	-43	<=-27	PASS
	Ant2	Low	5745	5650~5700	-40.22	<=-3.21	PASS
				5700~5720	-40.57	<=13.02	PASS
				5720~5725	-40.26	<=17.65	PASS
				5760~5650	-39.46	<=-27	PASS
	Ant1	High	5825	5850~5855	-41.51	<=16.10	PASS
				5855~5875	-41.05	<=15.09	PASS
				5875~5925	-41.15	<=-17.17	PASS
				5925~5935	-41.74	<=-27	PASS
	Ant2	High	5825	5850~5855	-40	<=17.33	PASS
				5855~5875	-40.32	<=11.80	PASS
				5875~5925	-38.9	<=2.71	PASS
				5925~5935	-40.22	<=-27	PASS
11N20MI MO	Ant1	Low	5745	5650~5700	-41.21	<=8.02	PASS
				5700~5720	-40.85	<=14.56	PASS
				5720~5725	-40.67	<=26.57	PASS
				5760~5650	-42.29	<=-27	PASS
	Ant2	Low	5745	5650~5700	-40.22	<=-16.23	PASS
				5700~5720	-39.58	<=14.69	PASS
				5720~5725	-40.73	<=26.57	PASS
				5760~5650	-41.51	<=-27	PASS
	Ant1	High	5825	5850~5855	-40.82	<=16.72	PASS
				5855~5875	-41.02	<=13.58	PASS
				5875~5925	-40.77	<=-19.76	PASS
				5925~5935	-41.57	<=-27	PASS
	Ant2	High	5825	5850~5855	-39.63	<=26.26	PASS
				5855~5875	-39.87	<=14.86	PASS
				5875~5925	-39.26	<=6.81	PASS
				5925~5935	-40.09	<=-27	PASS
11N40MI MO	Ant1	Low	5755	5650~5700	-41.56	<=1.57	PASS
				5700~5720	-39.51	<=14.75	PASS
				5720~5725	-38.15	<=24.97	PASS
				5780~5650	-43.01	<=-27	PASS
	Ant2	Low	5755	5650~5700	-40.68	<=-6.62	PASS

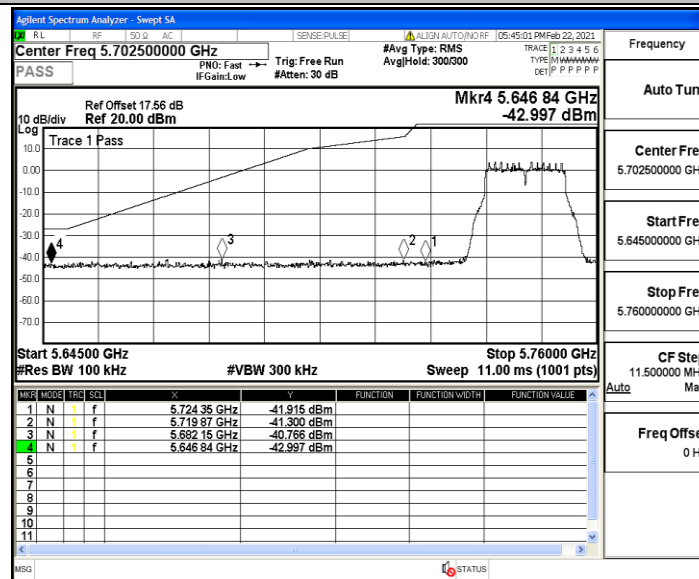
				5700~5720	-39.73	<=15.47	PASS
				5720~5725	-39.56	<=21.58	PASS
				5780~5650	-41.83	<=-27	PASS
	Ant1	High	5795	5850~5855	-41.87	<=16.79	PASS
				5855~5875	-40.45	<=14.84	PASS
				5875~5925	-40.46	<=-20.08	PASS
				5925~5935	-41.82	<=-27	PASS
	Ant2	High	5795	5850~5855	-40.41	<=24.69	PASS
				5855~5875	-40.15	<=11.43	PASS
				5875~5925	-39.54	<=-11.54	PASS
				5925~5935	-40.29	<=-27	PASS
11AC20M IMO	Ant1	Low	5745	5650~5700	-40.94	<=-2.62	PASS
				5700~5720	-41.55	<=14.53	PASS
				5720~5725	-41.14	<=26.83	PASS
				5760~5650	-42.43	<=-27	PASS
	Ant2	Low	5745	5650~5700	-40.37	<=0.53	PASS
				5700~5720	-40.18	<=11.15	PASS
				5720~5725	-40.94	<=16.34	PASS
				5760~5650	-40.74	<=-27	PASS
	Ant1	High	5825	5850~5855	-41.11	<=18.26	PASS
				5855~5875	-40.34	<=10.40	PASS
				5875~5925	-40.38	<=-20.26	PASS
				5925~5935	-42	<=-27	PASS
	Ant2	High	5825	5850~5855	-40.09	<=24.72	PASS
				5855~5875	-39.29	<=13.92	PASS
				5875~5925	-39.4	<=6.51	PASS
				5925~5935	-39.42	<=-27	PASS
11AC40M IMO	Ant1	Low	5755	5650~5700	-41.43	<=2.07	PASS
				5700~5720	-40.79	<=15.35	PASS
				5720~5725	-38.71	<=21.58	PASS
				5780~5650	-42.36	<=-27	PASS
	Ant2	Low	5755	5650~5700	-40.01	<=-9.62	PASS
				5700~5720	-39.69	<=14.56	PASS
				5720~5725	-40	<=23.74	PASS
				5780~5650	-41.78	<=-27	PASS
	Ant1	High	5795	5850~5855	-41.64	<=22.05	PASS
				5855~5875	-40.79	<=10.22	PASS
				5875~5925	-41.08	<=-13.74	PASS
				5925~5935	-40.91	<=-27	PASS
	Ant2	High	5795	5850~5855	-39.97	<=26.94	PASS
				5855~5875	-39.13	<=12.26	PASS
				5875~5925	-39.59	<=-24.36	PASS
				5925~5935	-40.34	<=-27	PASS
11AC80M	Ant1	Low	5775	5650~5700	-41.37	<=-19.34	PASS

IMO				5700~5720	-41.08	<=12.13	PASS
				5720~5725	-41.88	<=25.89	PASS
				5800~5650	-42.58	<=-27	PASS
	High	5775		5850~5855	-41.16	<=18.75	PASS
				5855~5875	-41.23	<=13.34	PASS
				5875~5925	-40.58	<=-25.45	PASS
				5925~5935	-40.71	<=-27	PASS
	Ant2	Low	5775	5650~5700	-40.28	<=2.68	PASS
				5700~5720	-40.23	<=15.17	PASS
				5720~5725	-40.61	<=19.18	PASS
				5800~5650	-40.88	<=-27	PASS
		High	5775	5850~5855	-40.33	<=17.48	PASS
				5855~5875	-39.85	<=11.52	PASS
				5875~5925	-38.94	<=-10.80	PASS
				5925~5935	-39.82	<=-27	PASS
11AX20M IMO	Ant1	Low	5745	5650~5700	-41.4	<=-10.45	PASS
				5700~5720	-40.36	<=13.82	PASS
				5720~5725	-40.68	<=19.49	PASS
				5760~5650	-43.07	<=-27	PASS
	Ant2	Low	5745	5650~5700	-39.28	<=-11.47	PASS
				5700~5720	-40.41	<=13.95	PASS
				5720~5725	-40	<=16.60	PASS
				5760~5650	-40.51	<=-27	PASS
	Ant1	High	5825	5850~5855	-40.45	<=19.18	PASS
				5855~5875	-40.39	<=14.14	PASS
				5875~5925	-40.4	<=0.22	PASS
				5925~5935	-41.29	<=-27	PASS
	Ant2	High	5825	5850~5855	-40.34	<=20.41	PASS
				5855~5875	-39.01	<=10.36	PASS
				5875~5925	-39.06	<=-0.68	PASS
				5925~5935	-40.48	<=-27	PASS
11AX40M IMO	Ant1	Low	5755	5650~5700	-40.95	<=5.46	PASS
				5700~5720	-40.08	<=15.50	PASS
				5720~5725	-40.31	<=23.74	PASS
				5780~5650	-42.44	<=-27	PASS
	Ant2	Low	5755	5650~5700	-40.41	<=-11.12	PASS
				5700~5720	-39.99	<=11.12	PASS
				5720~5725	-39.75	<=20.35	PASS
				5780~5650	-41	<=-27	PASS
	Ant1	High	5795	5850~5855	-41.71	<=20.55	PASS
				5855~5875	-41.18	<=12.53	PASS
				5875~5925	-40.99	<=-22.40	PASS
				5925~5935	-41.32	<=-27	PASS
	Ant2	High	5795	5850~5855	-40.21	<=15.66	PASS

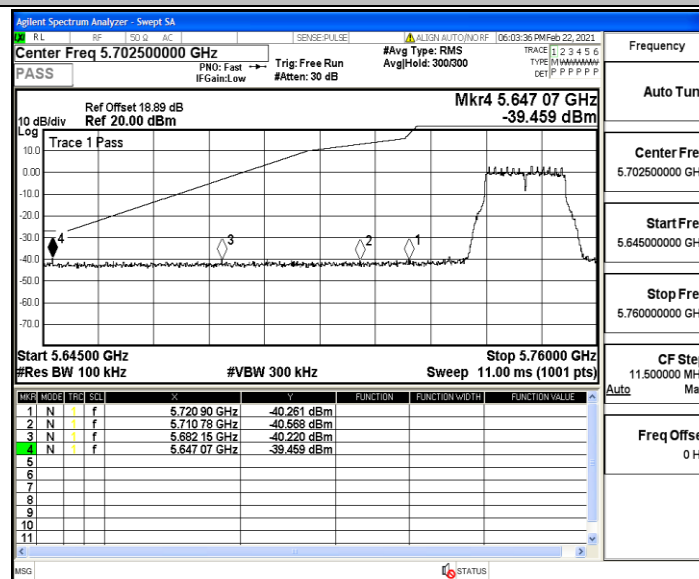
11AX80M IMO				5855~5875	-39.58	<=12.95	PASS
				5875~5925	-39.86	<=9.22	PASS
				5925~5935	-40.99	<=-27	PASS
	Ant1	Low	5775	5650~5700	-40.96	<=9.56	PASS
				5700~5720	-41	<=12.65	PASS
				5720~5725	-40.66	<=25.54	PASS
				5800~5650	-42.72	<=-27	PASS
		High	5775	5850~5855	-41.27	<=17.06	PASS
				5855~5875	-40.15	<=11.01	PASS
				5875~5925	-39.91	<=-13.68	PASS
				5925~5935	-41.26	<=-27	PASS
	Ant2	Low	5775	5650~5700	-39.79	<=-5.81	PASS
				5700~5720	-40.08	<=14.95	PASS
				5720~5725	-40.6	<=18.12	PASS
				5800~5650	-41.64	<=-27	PASS
		High	5775	5850~5855	-40.09	<=17.48	PASS
				5855~5875	-39.64	<=13.03	PASS
				5875~5925	-39.72	<=-12.17	PASS
				5925~5935	-39.91	<=-27	PASS

Test Graphs

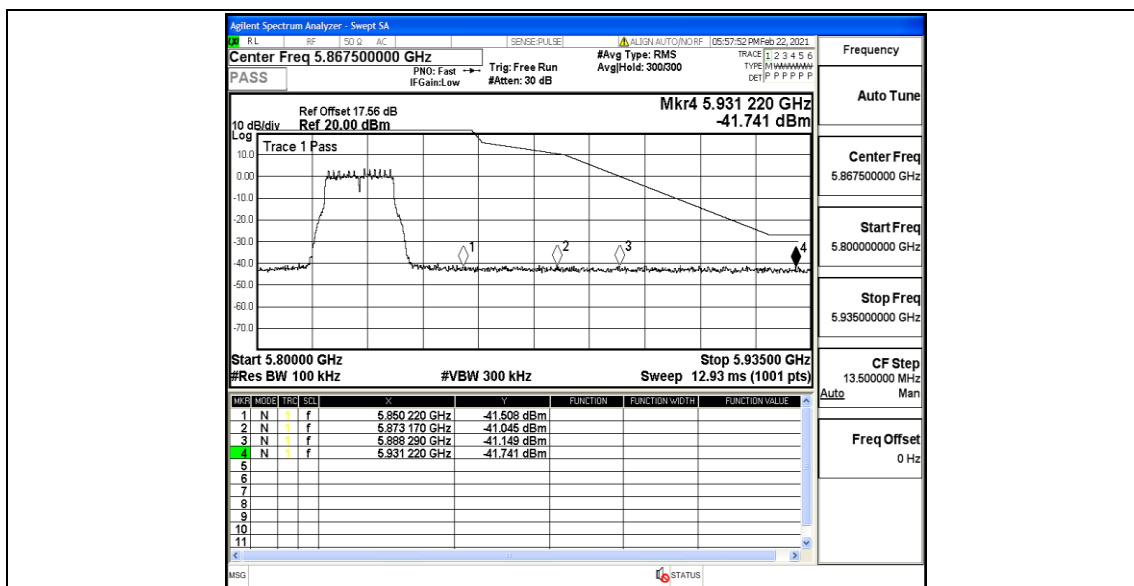
11A_Ant1_Low_5745



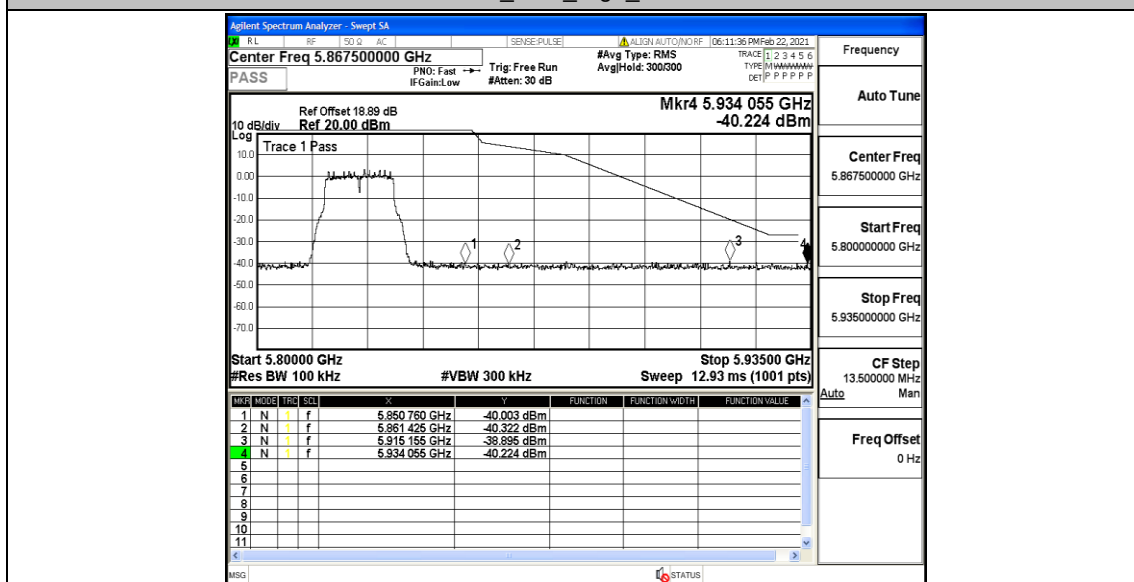
11A_Ant2_Low_5745



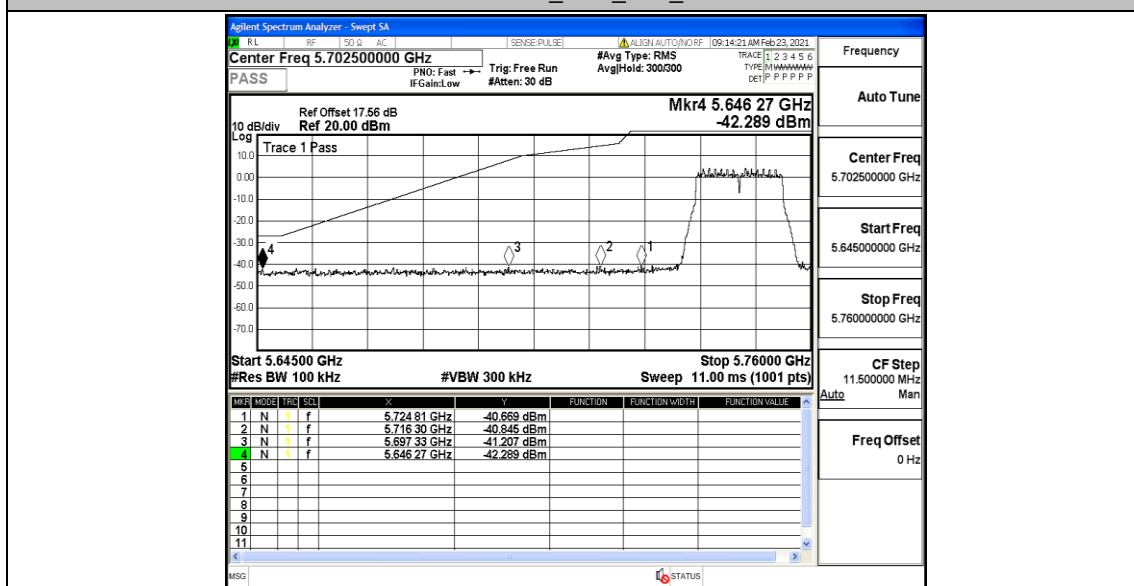
11A_Ant1_High_5825



11A_Ant2_High_5825



11N20MIMO_Ant1_Low_5745



11N20MIMO_Ant2_Low_5745