

11AX20MIMO Ant1 5785

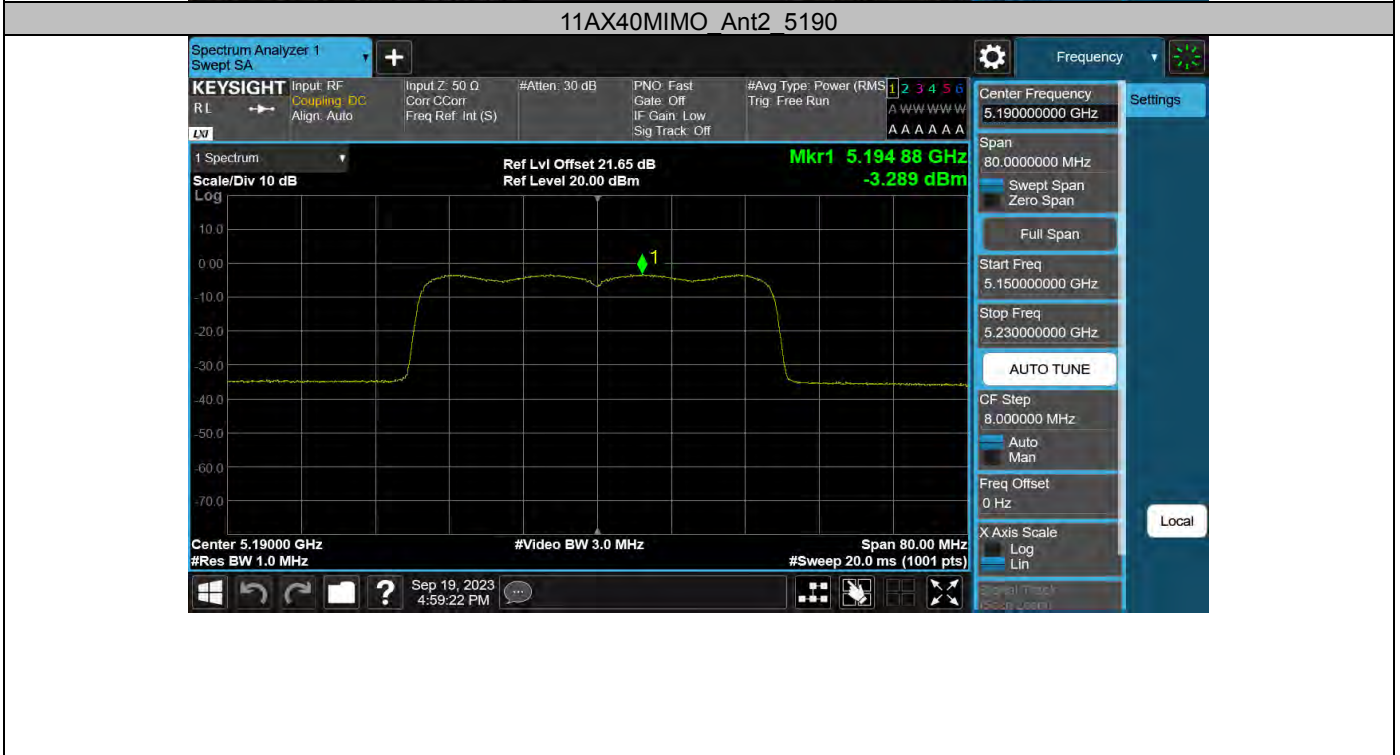
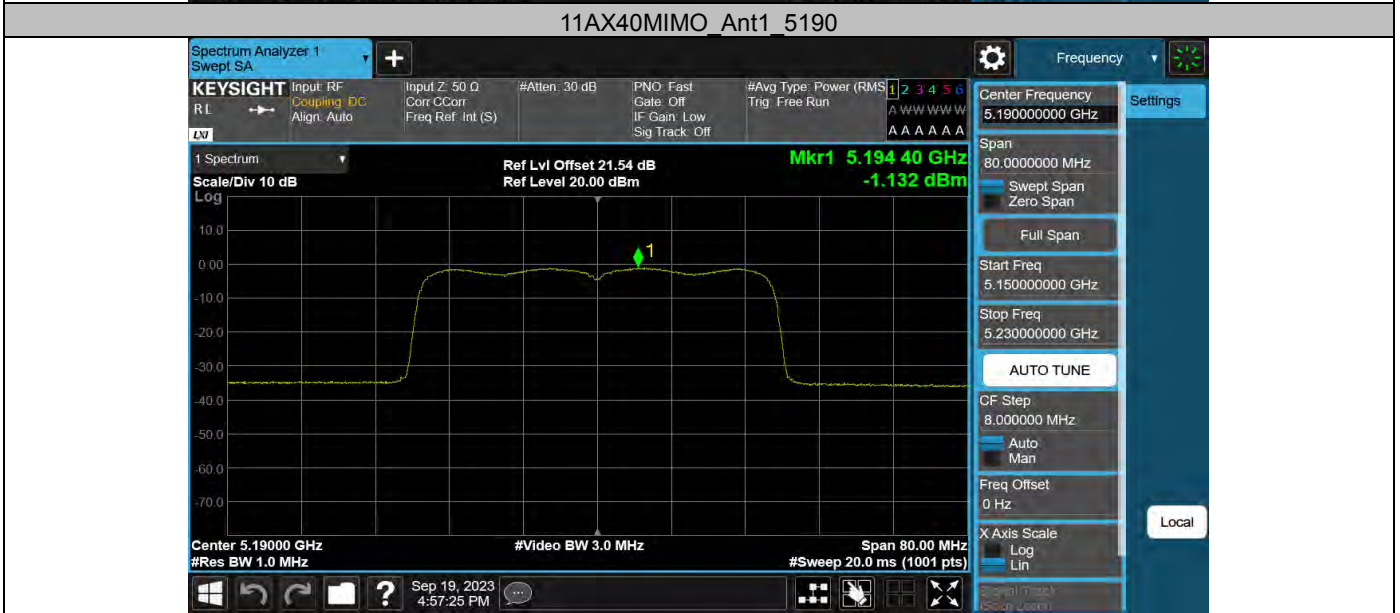
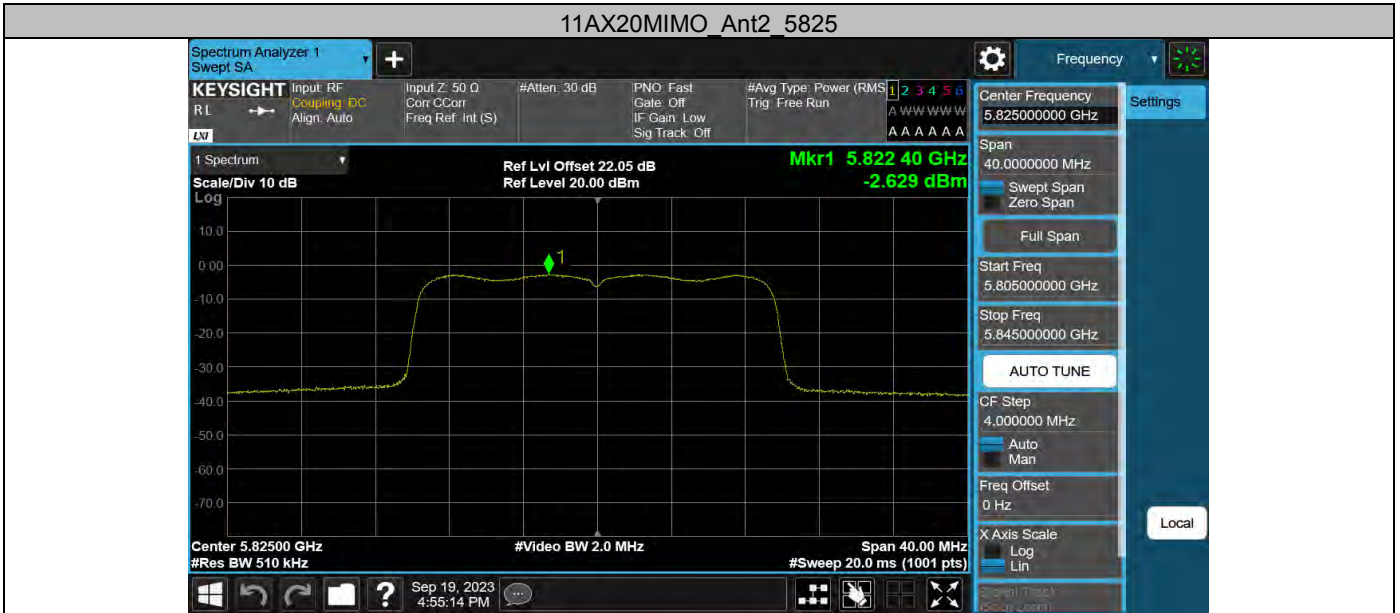


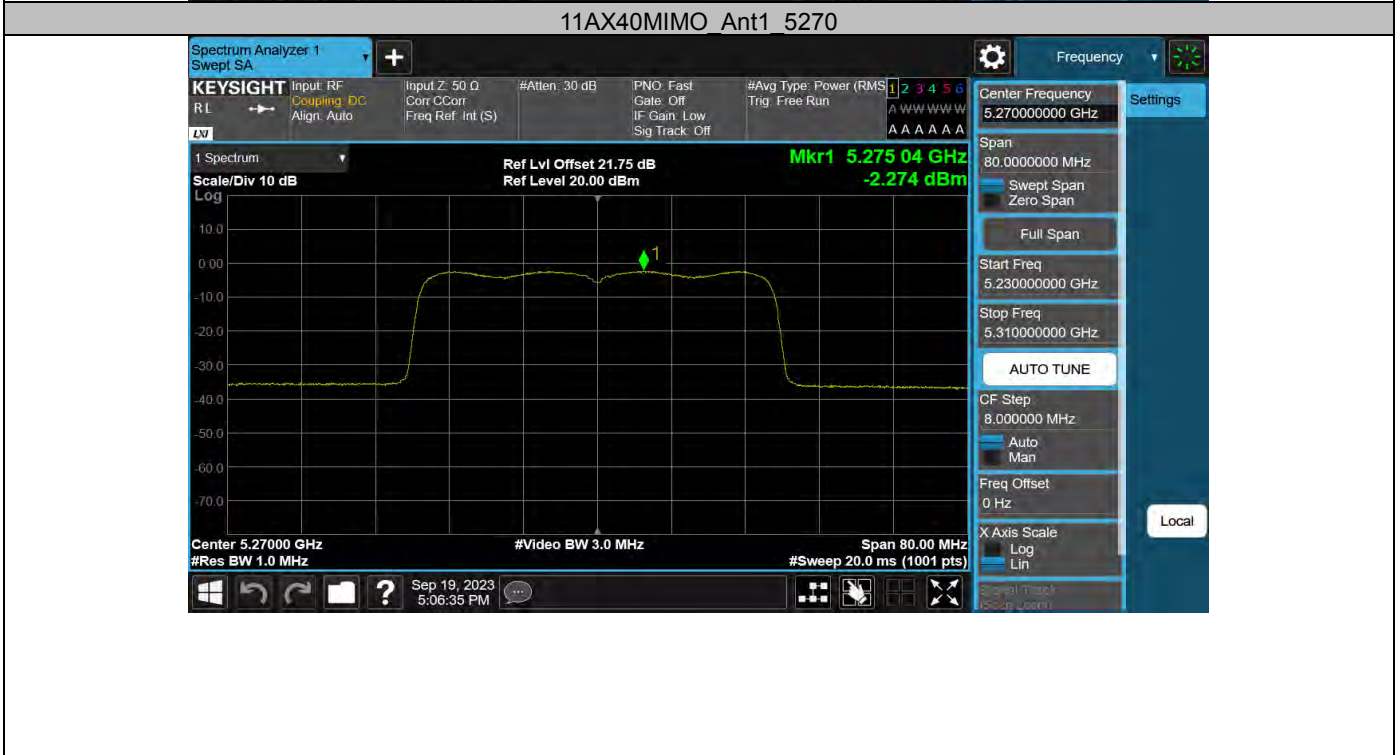
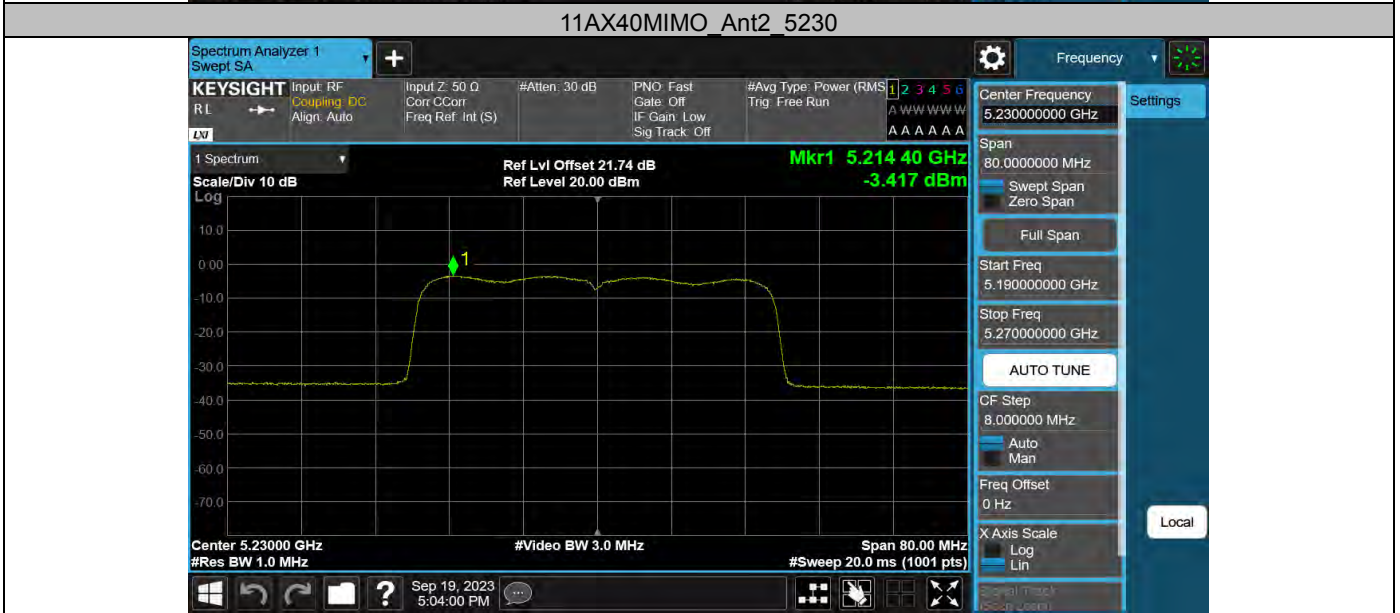
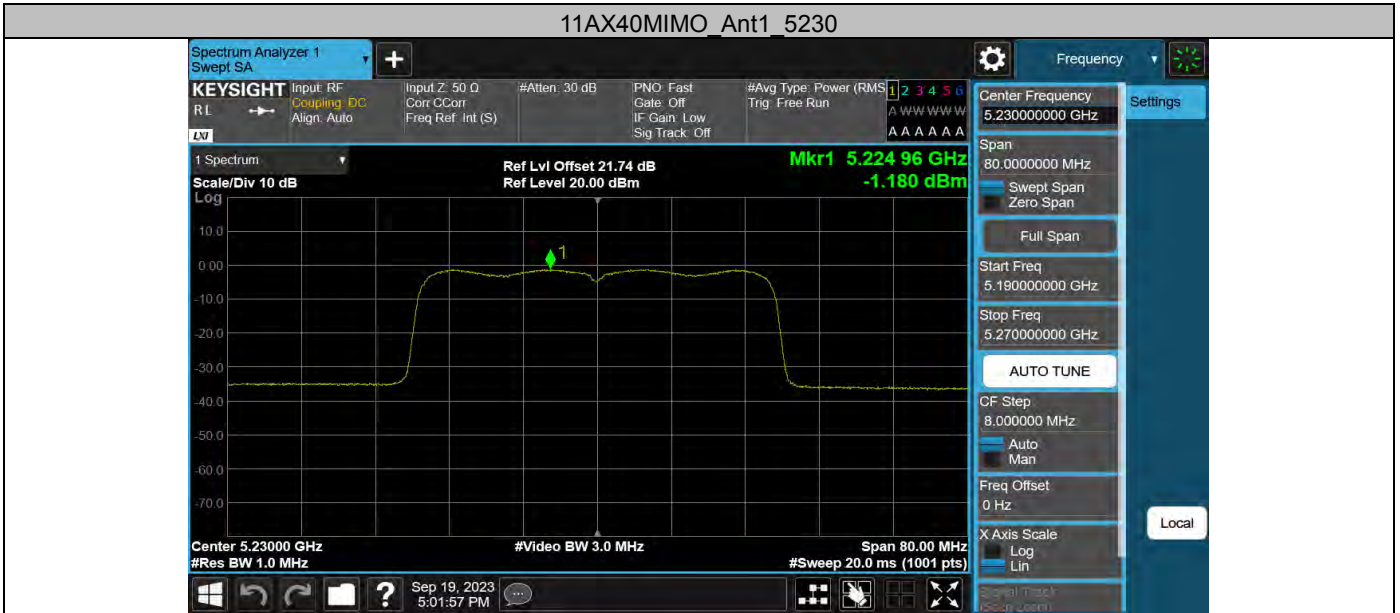
11AX20MIMO Ant2 5785

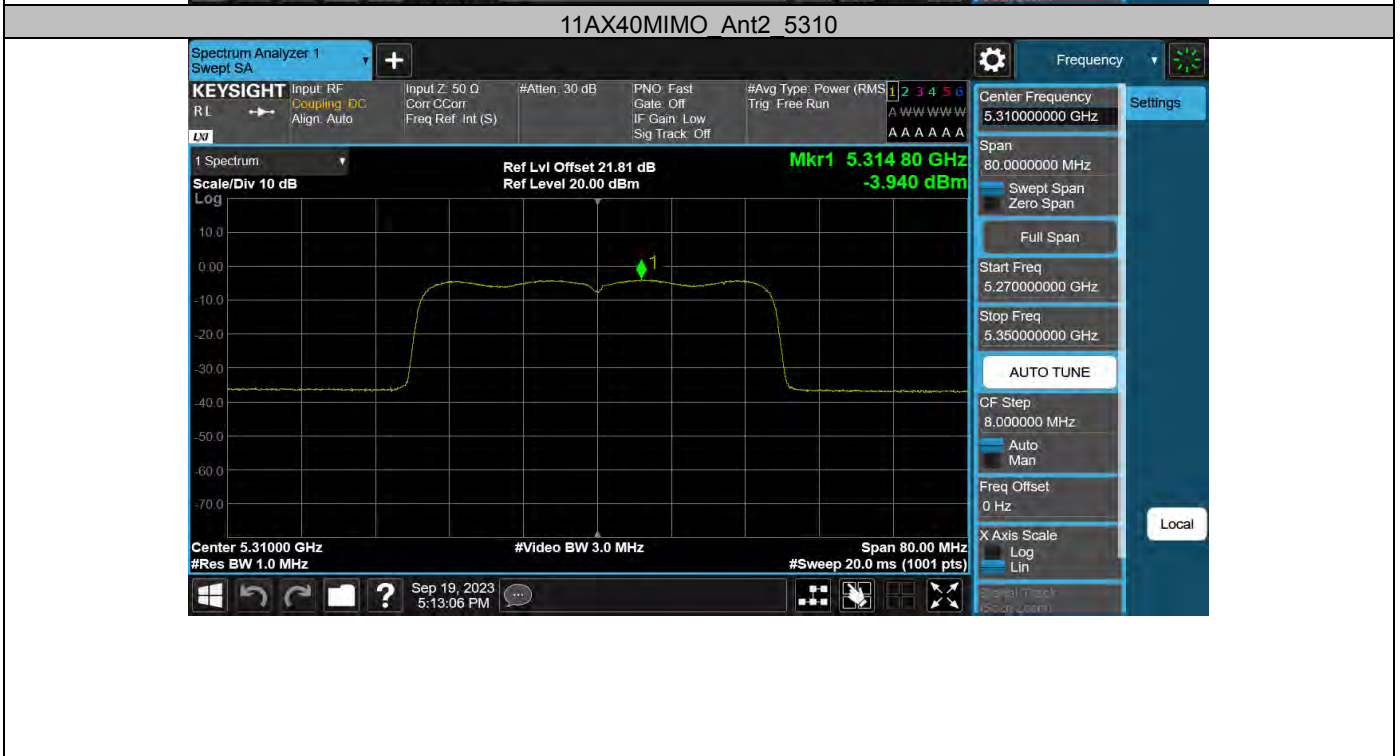
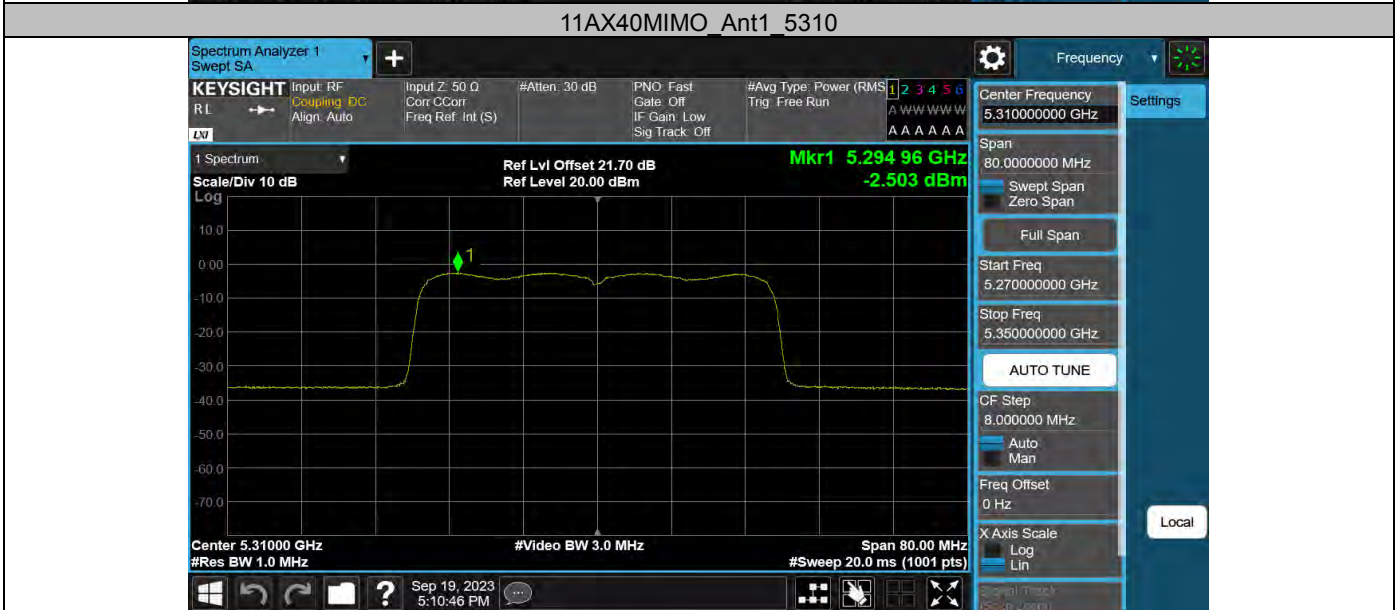
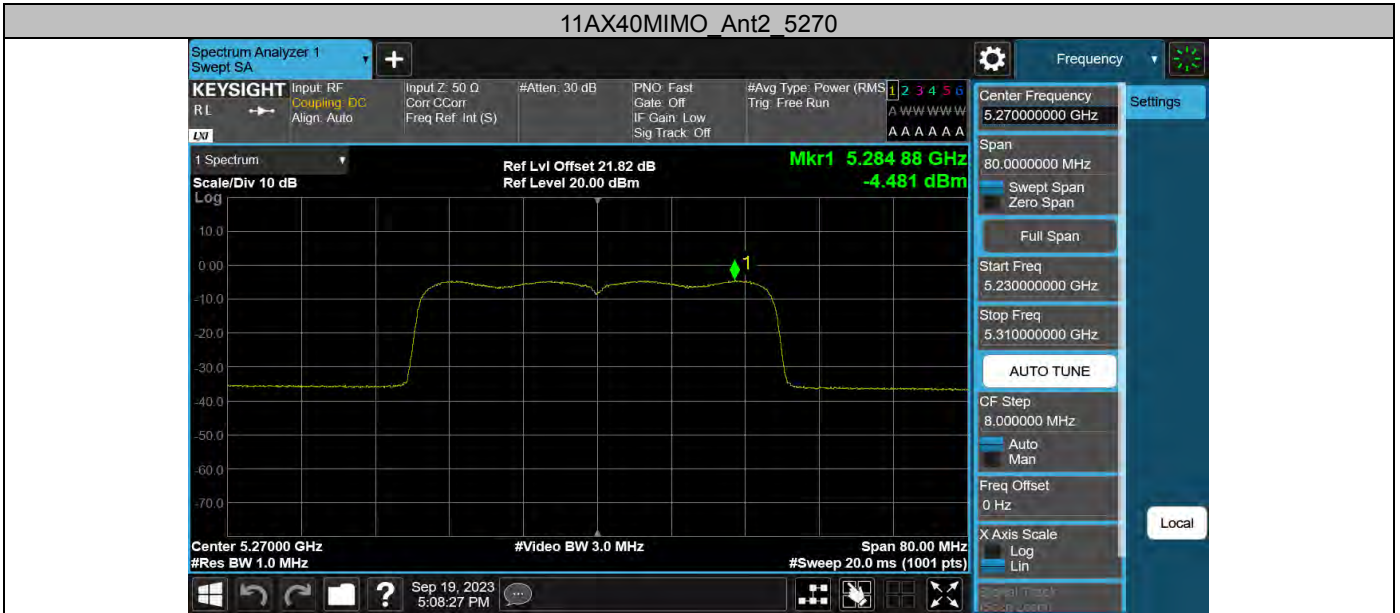


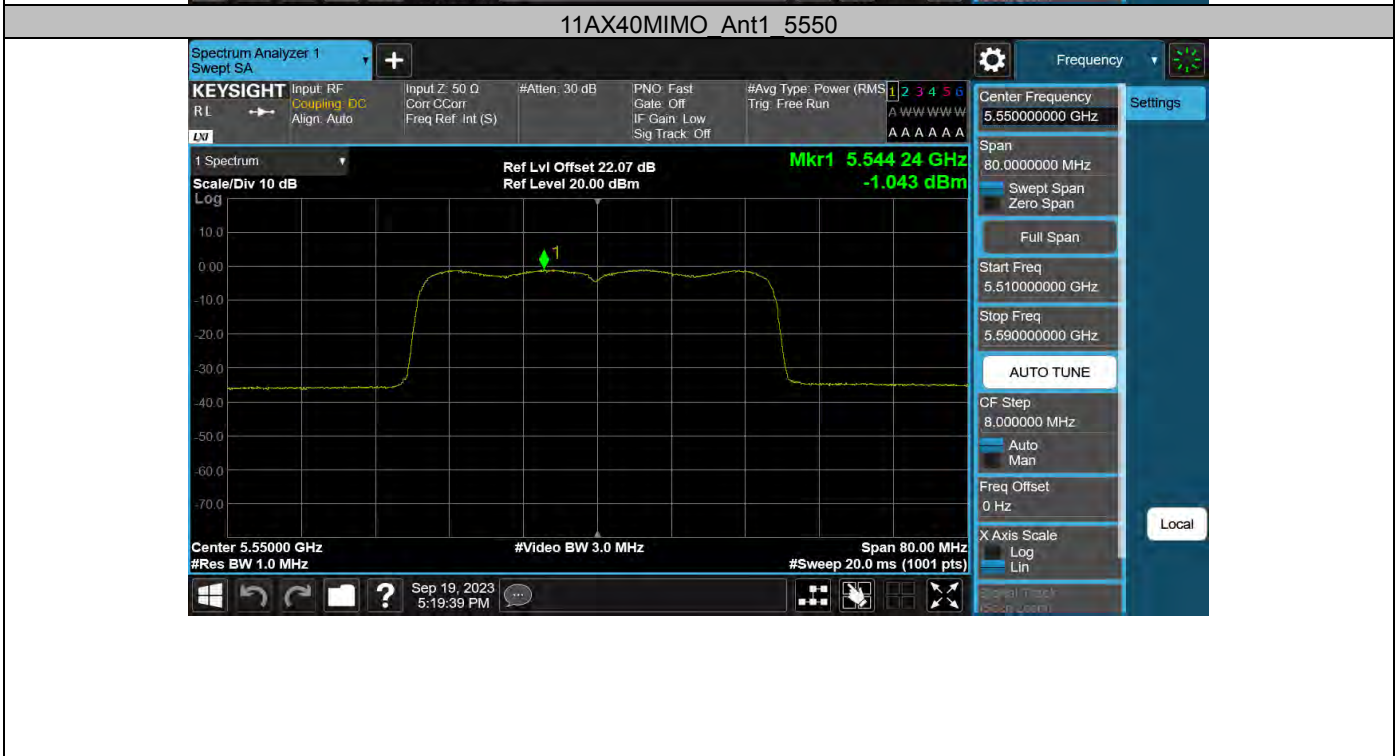
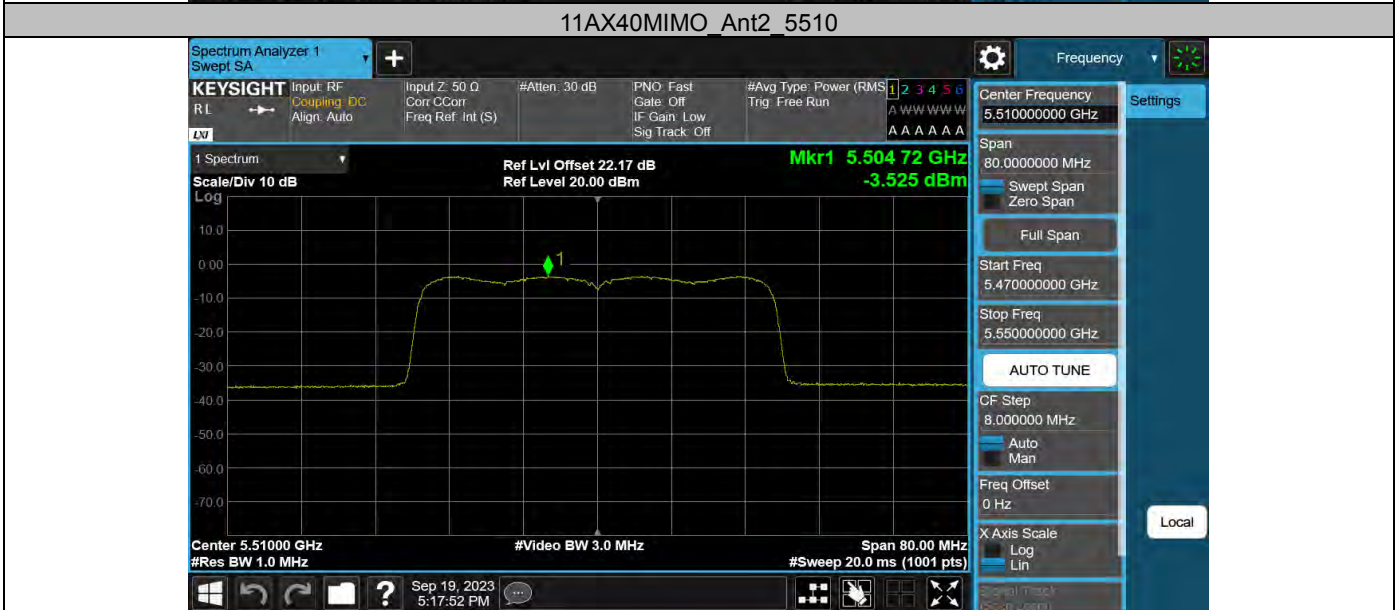
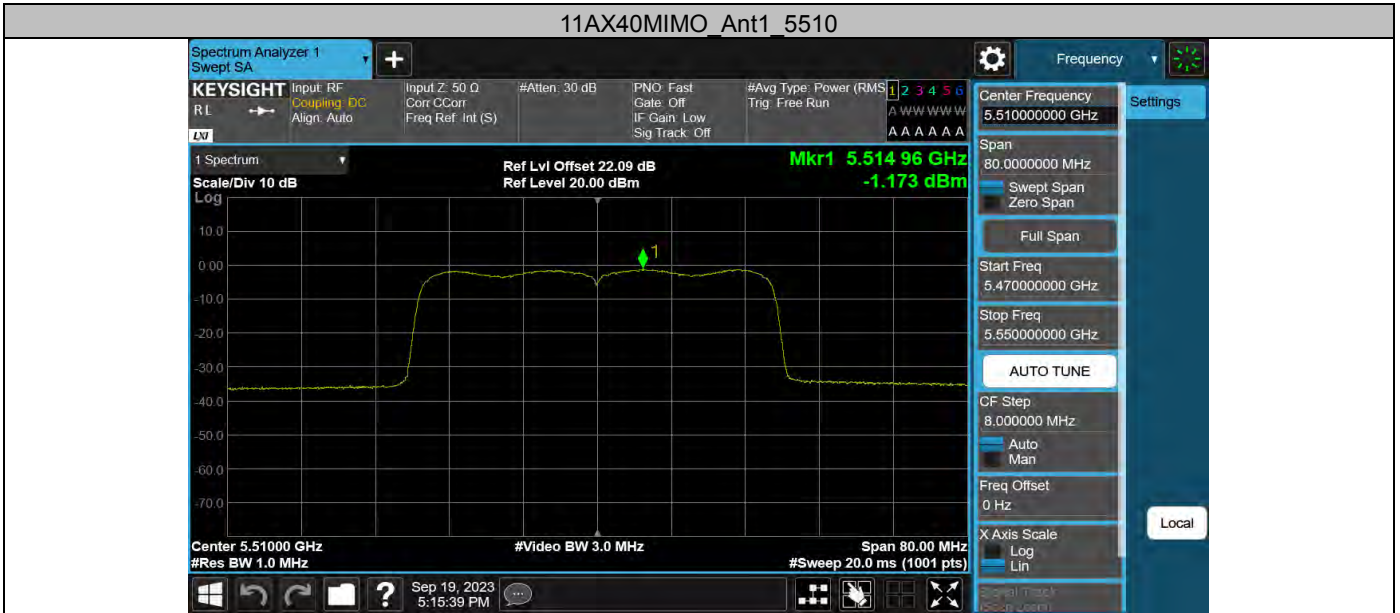
11AX20MIMO Ant1 5825

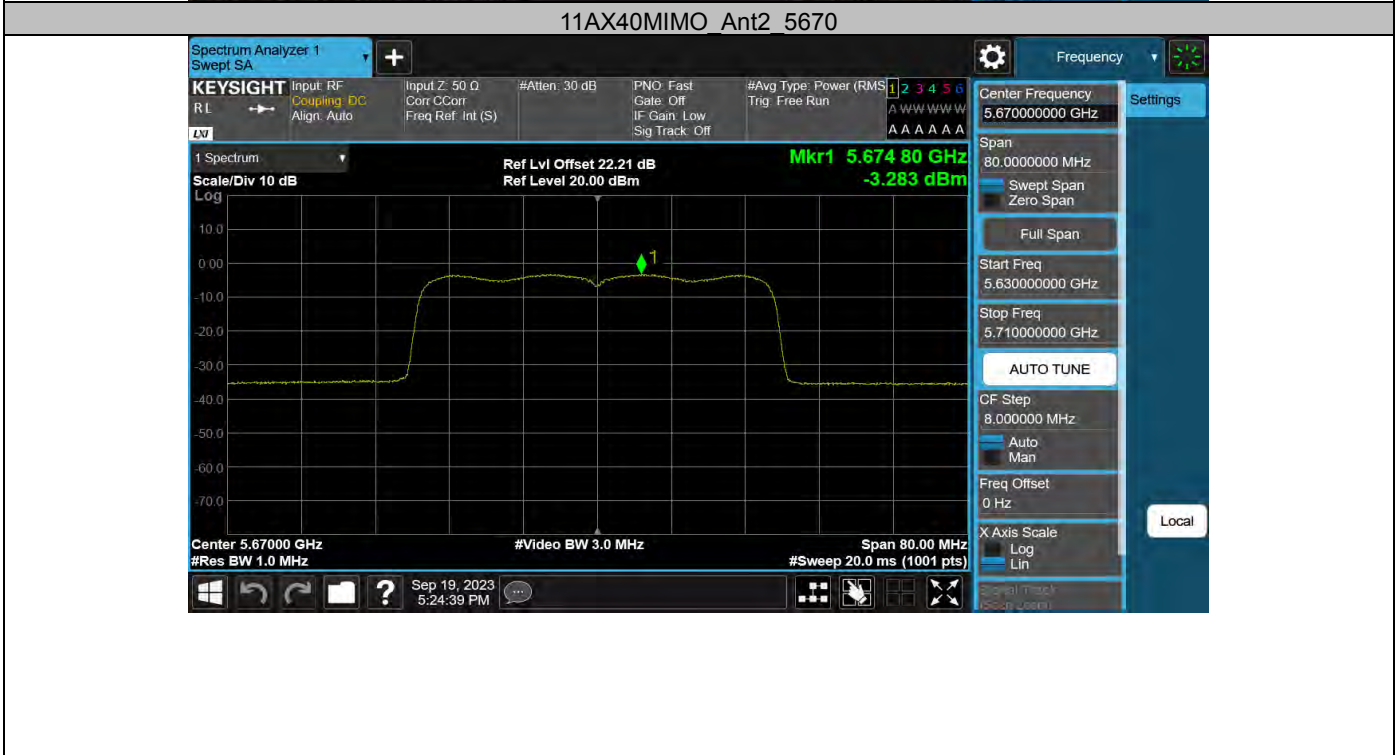
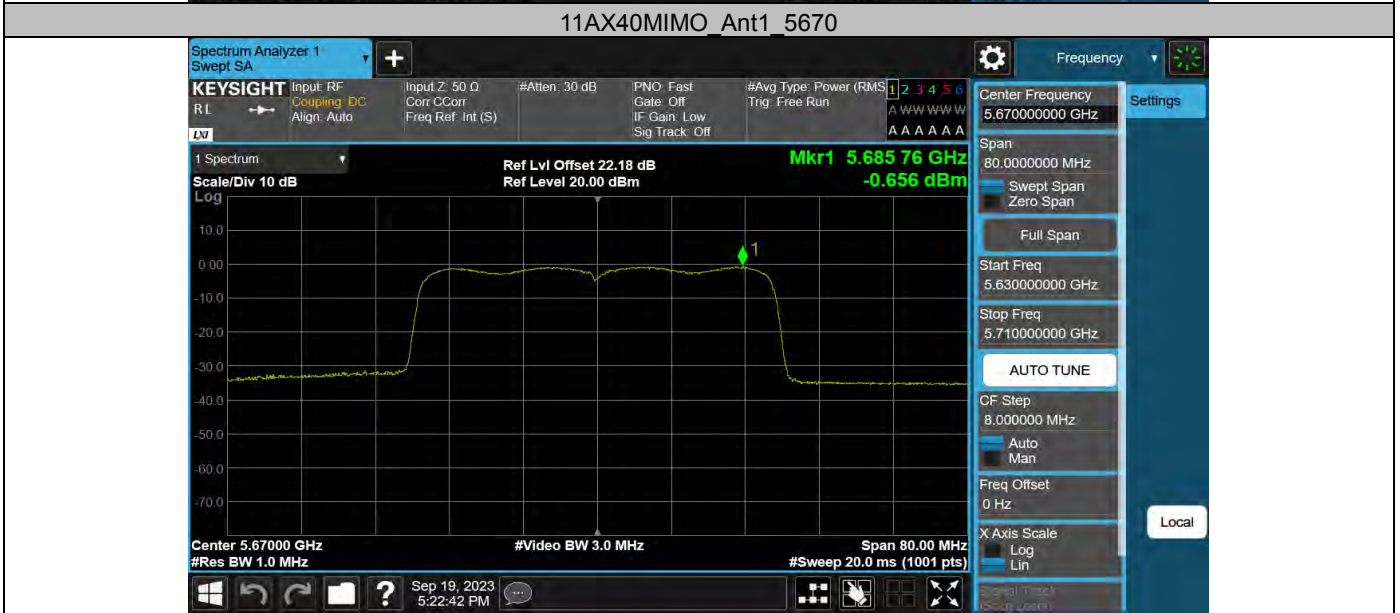
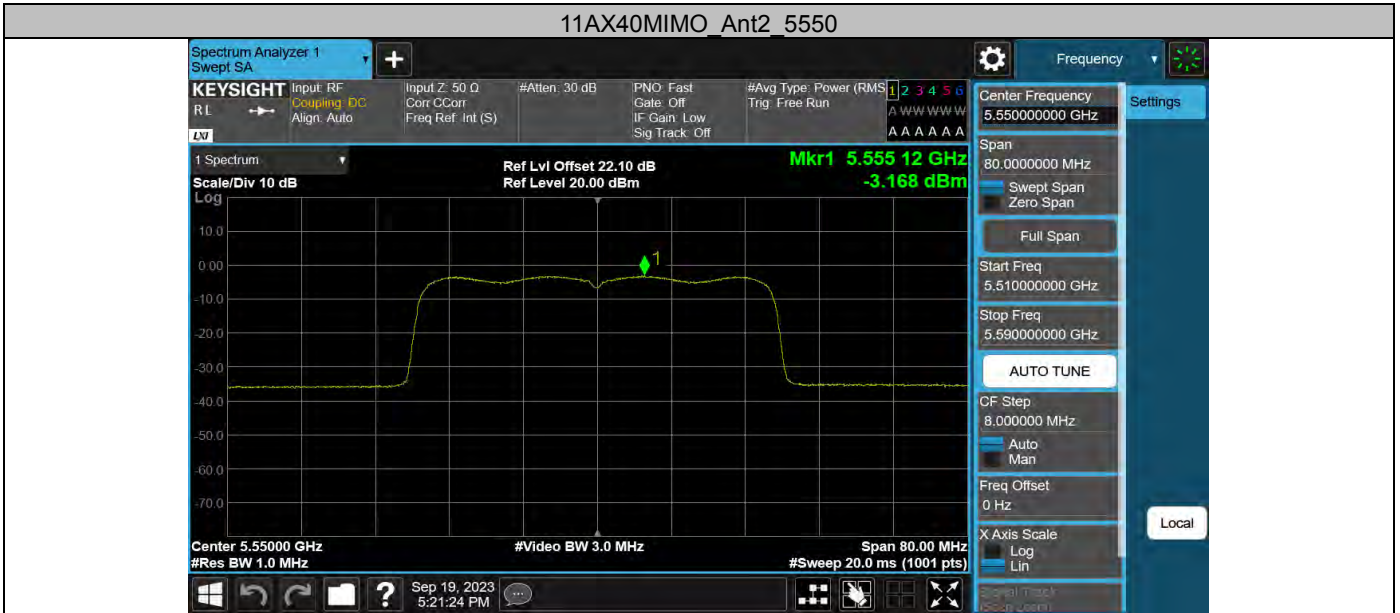


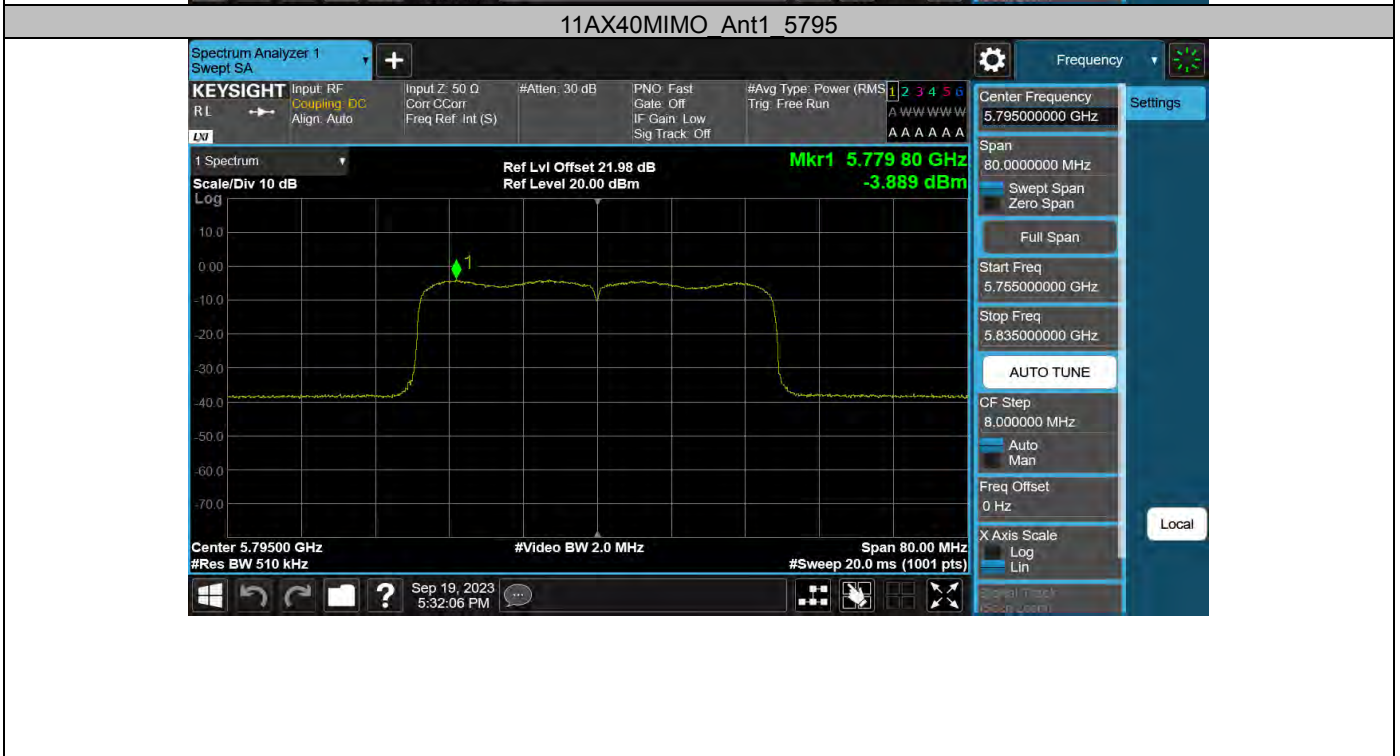
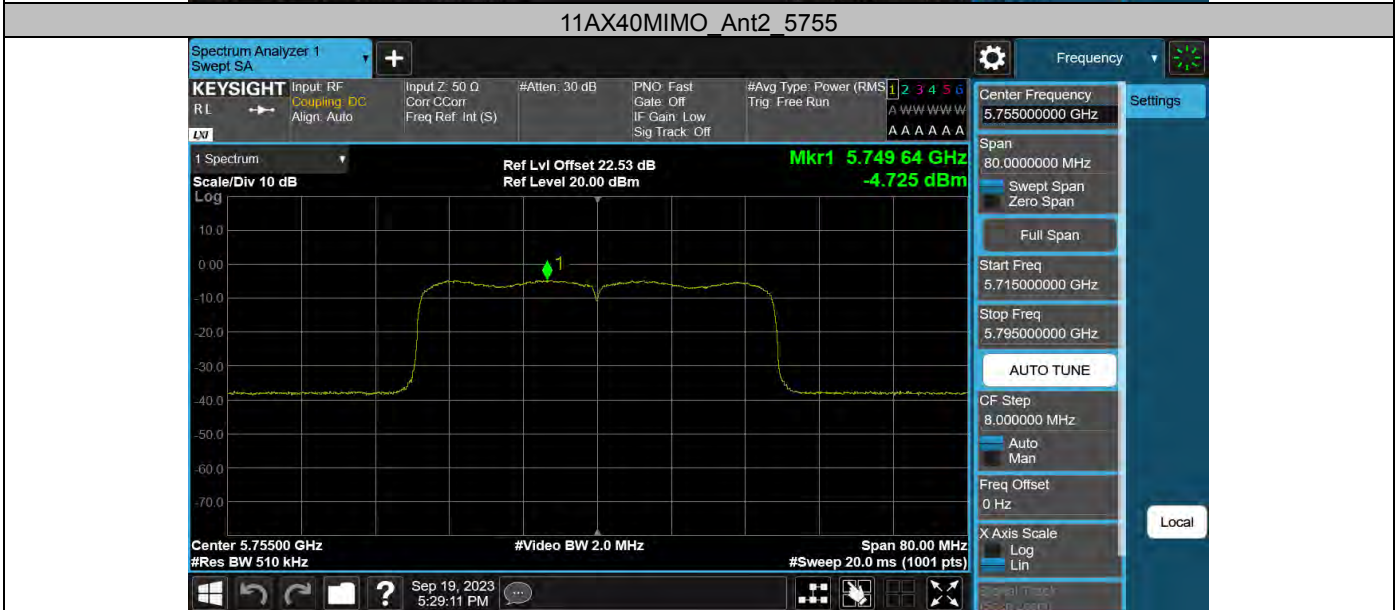
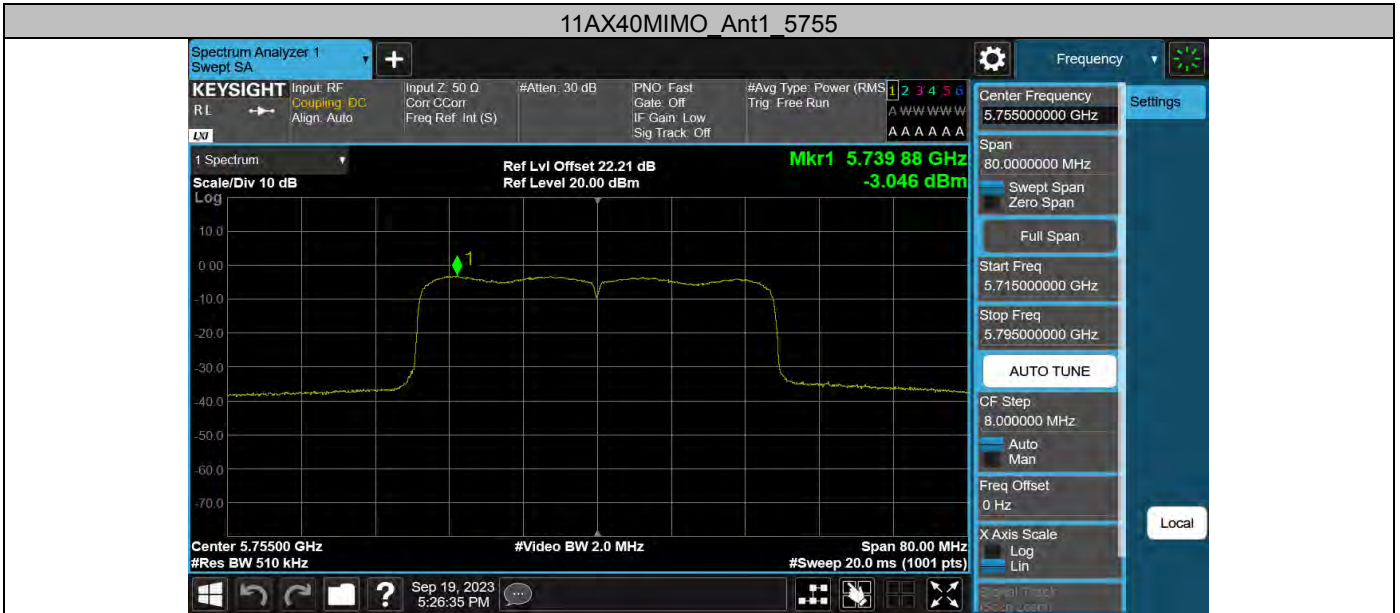


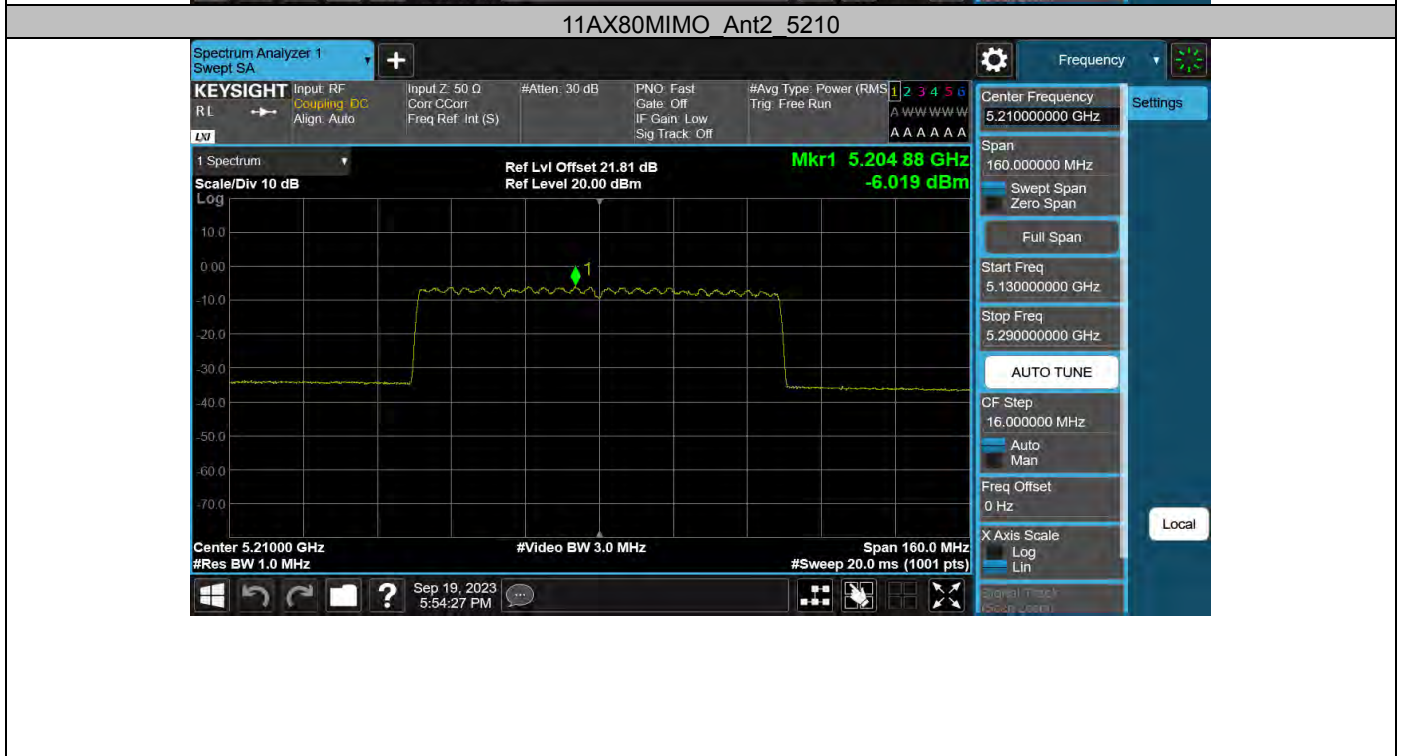
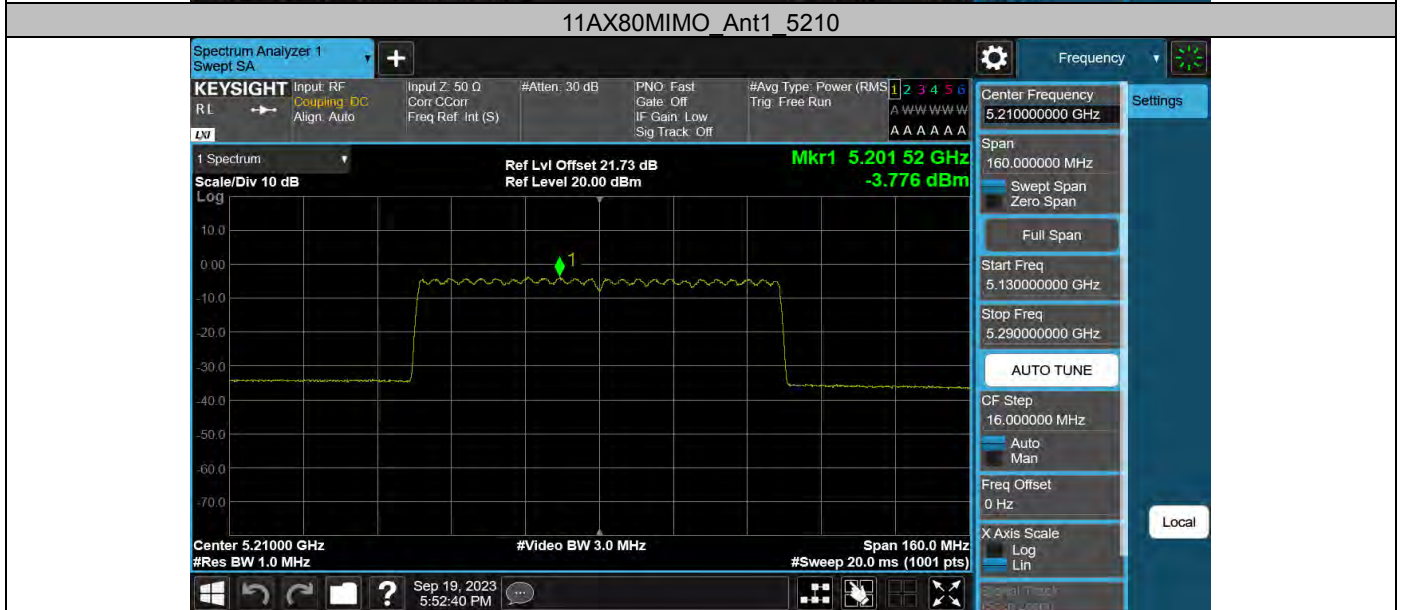
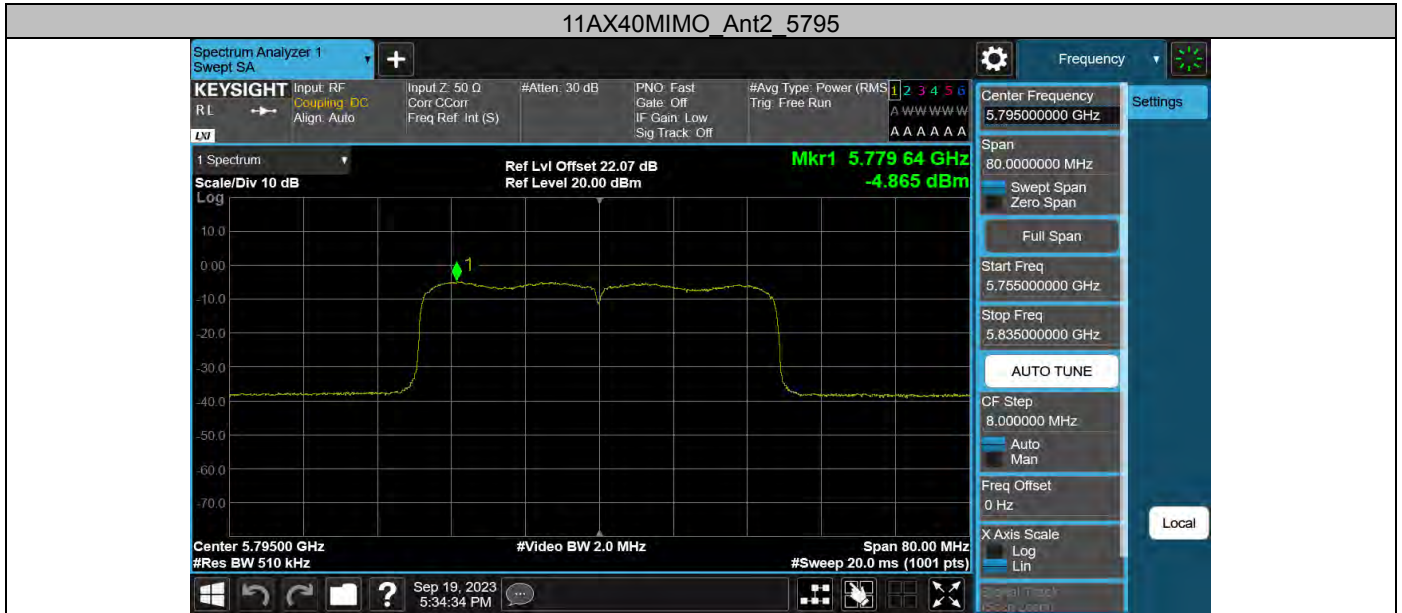


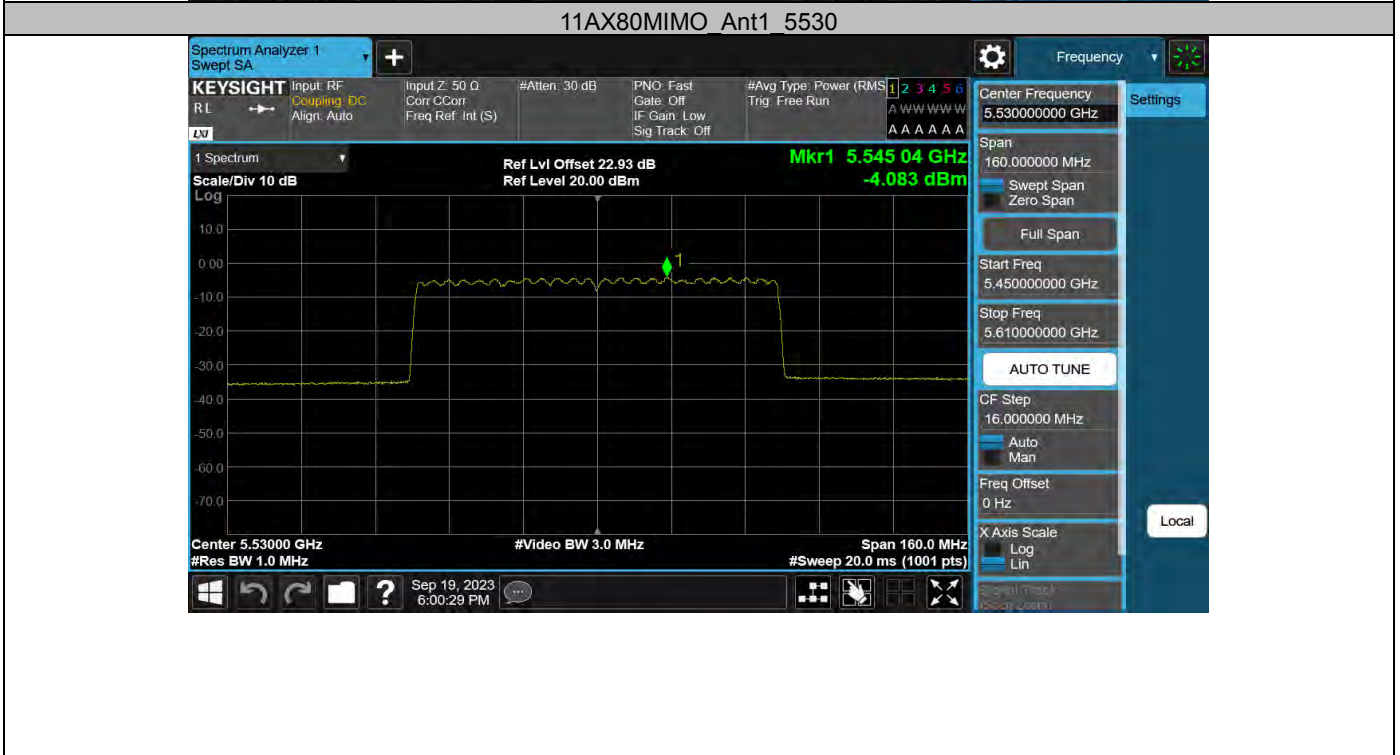
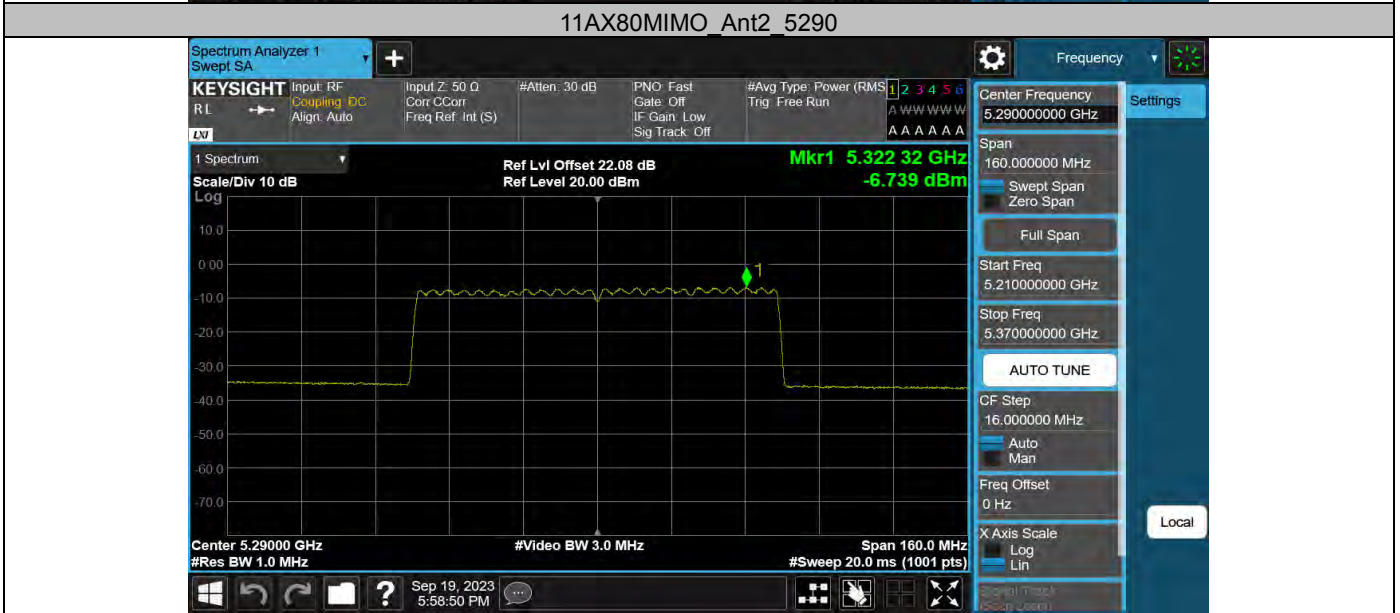
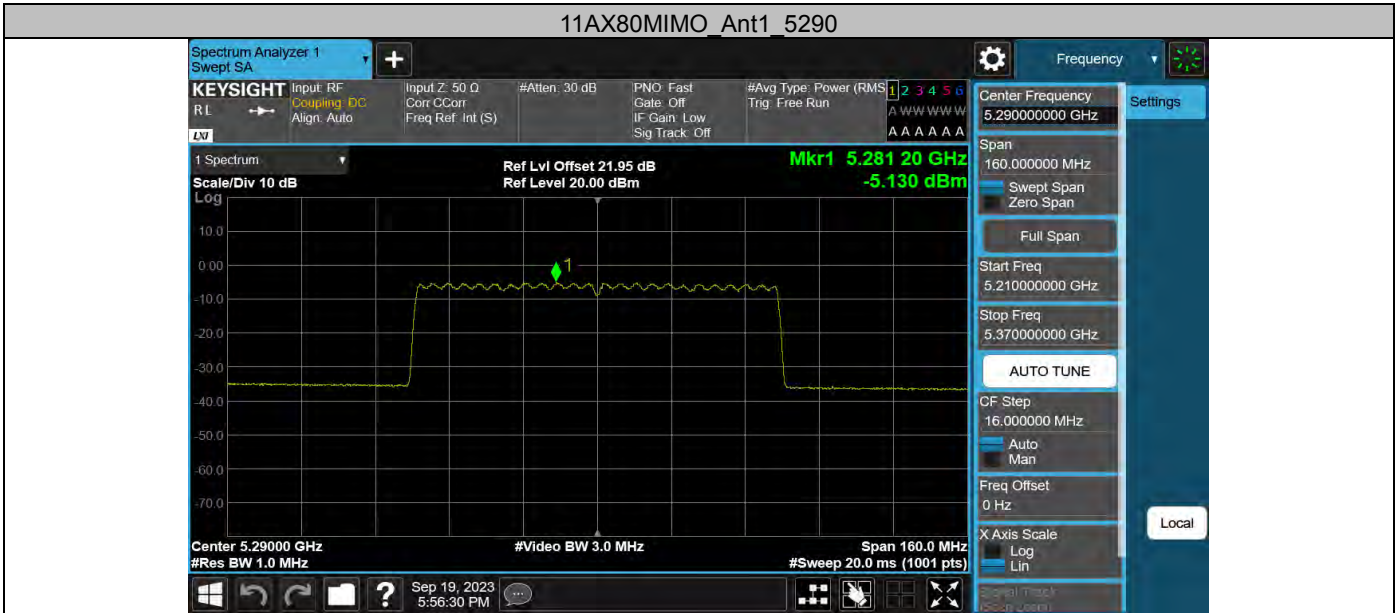


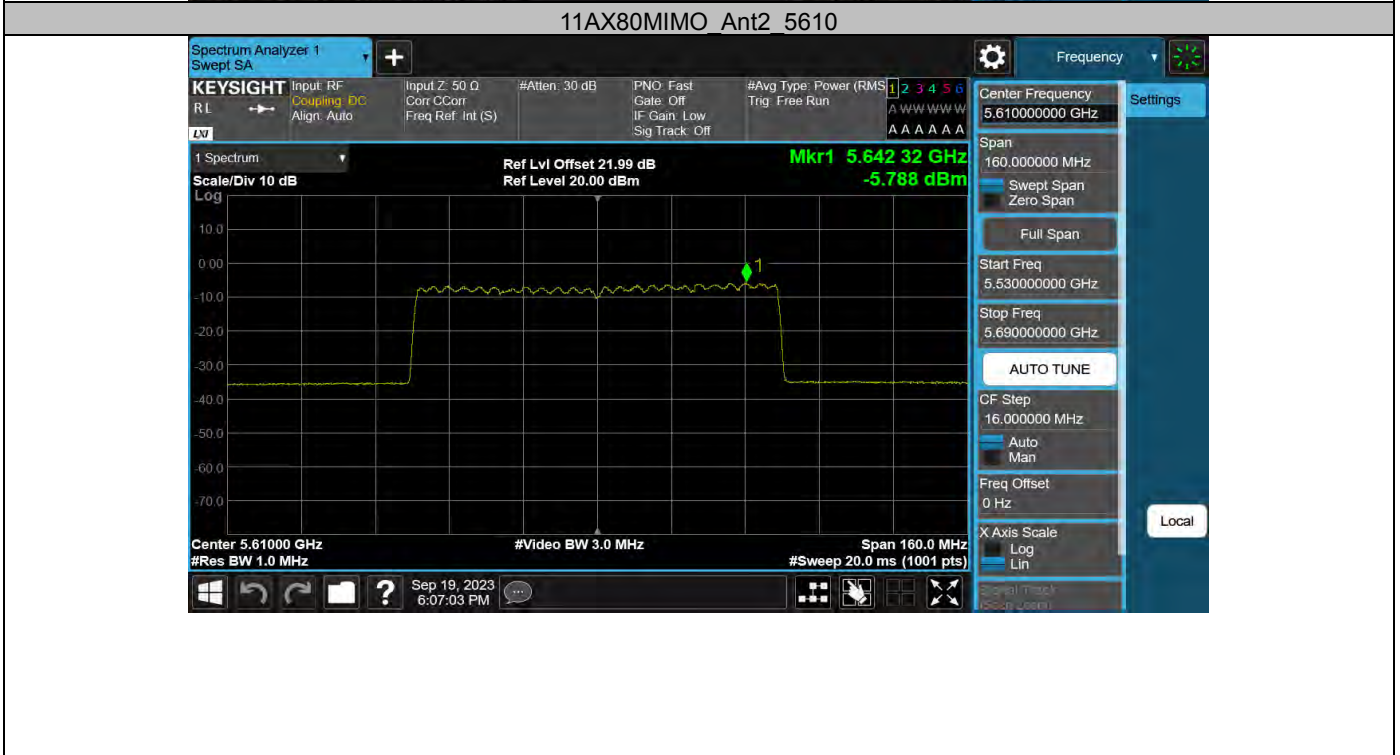
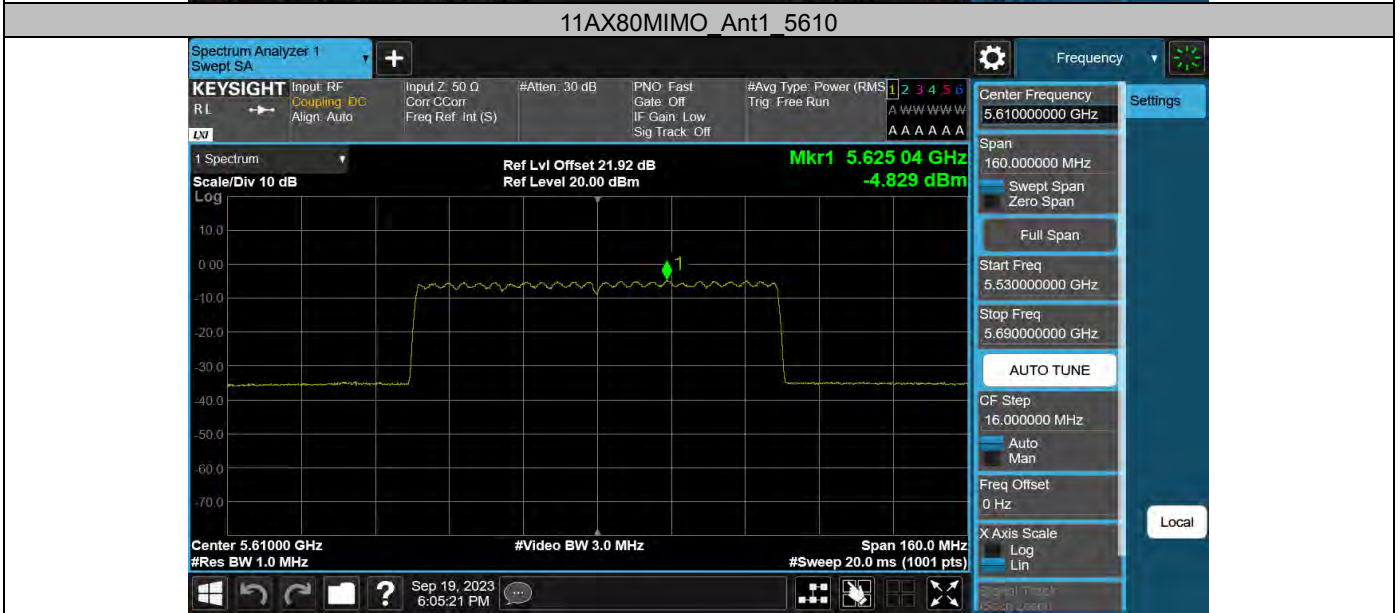
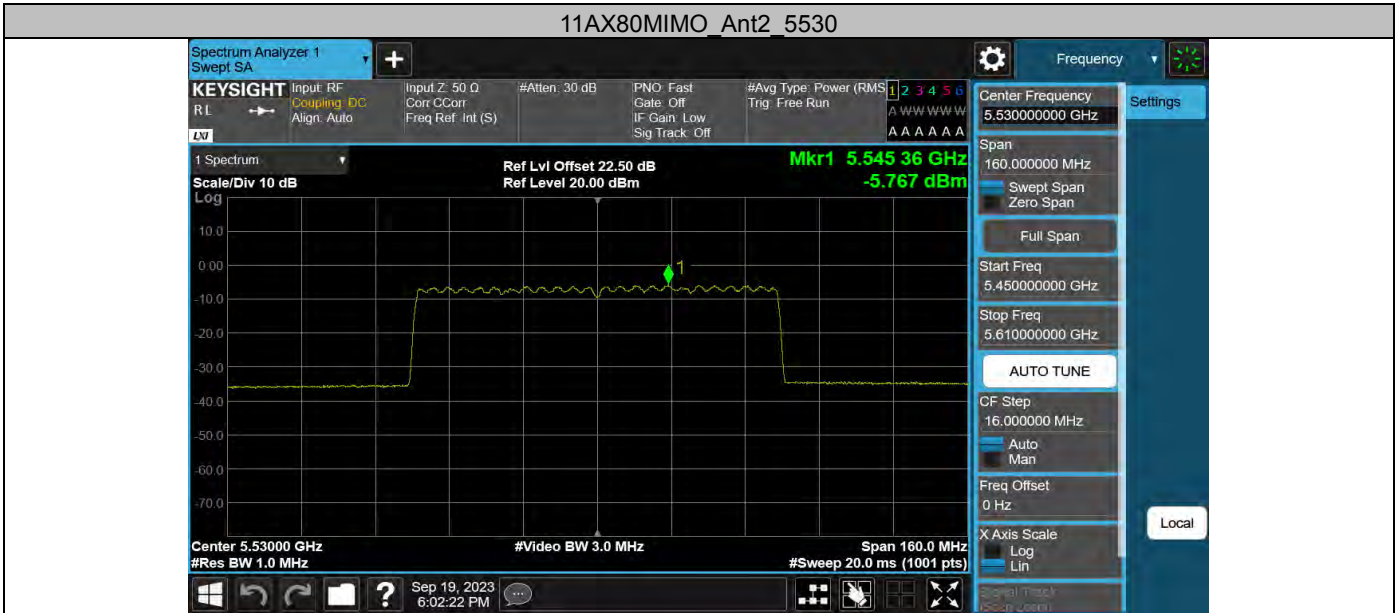


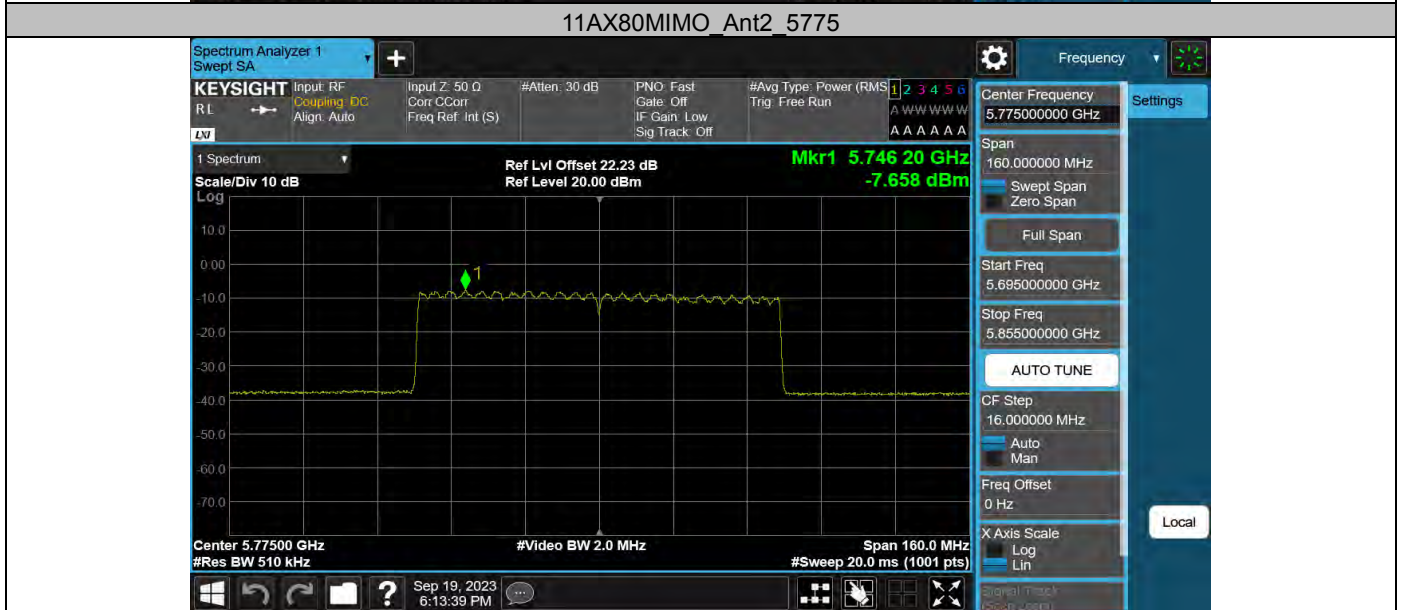
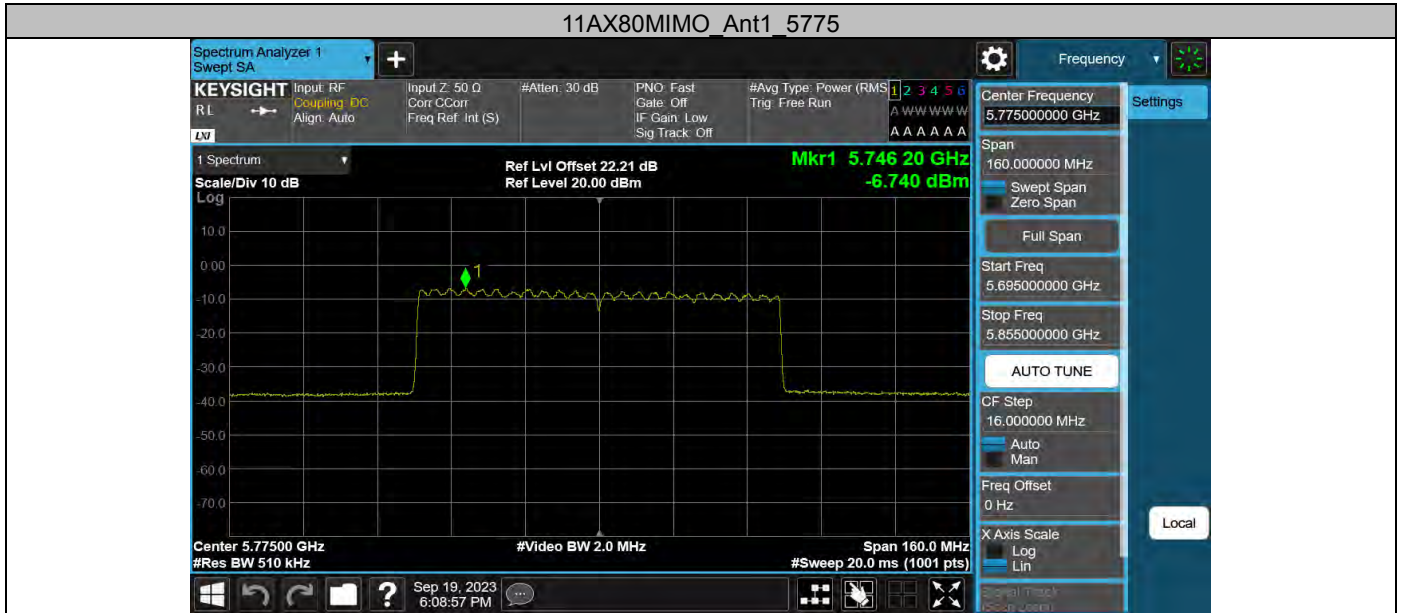












Appendix G: Band edge measurements

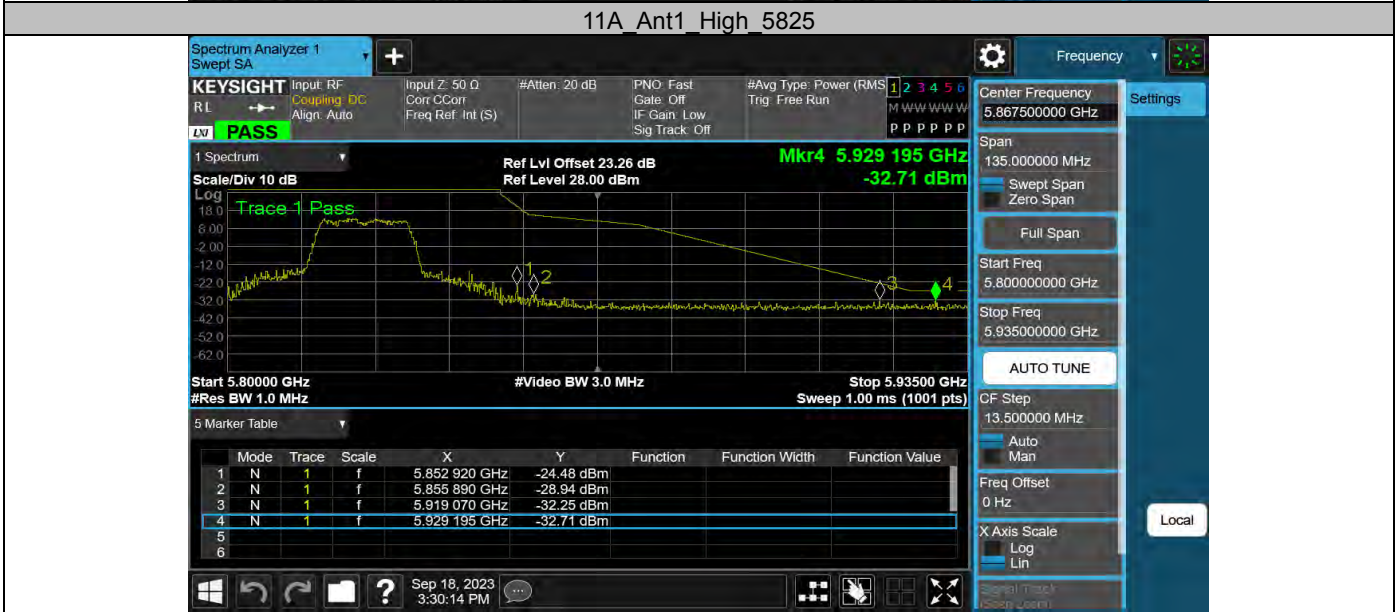
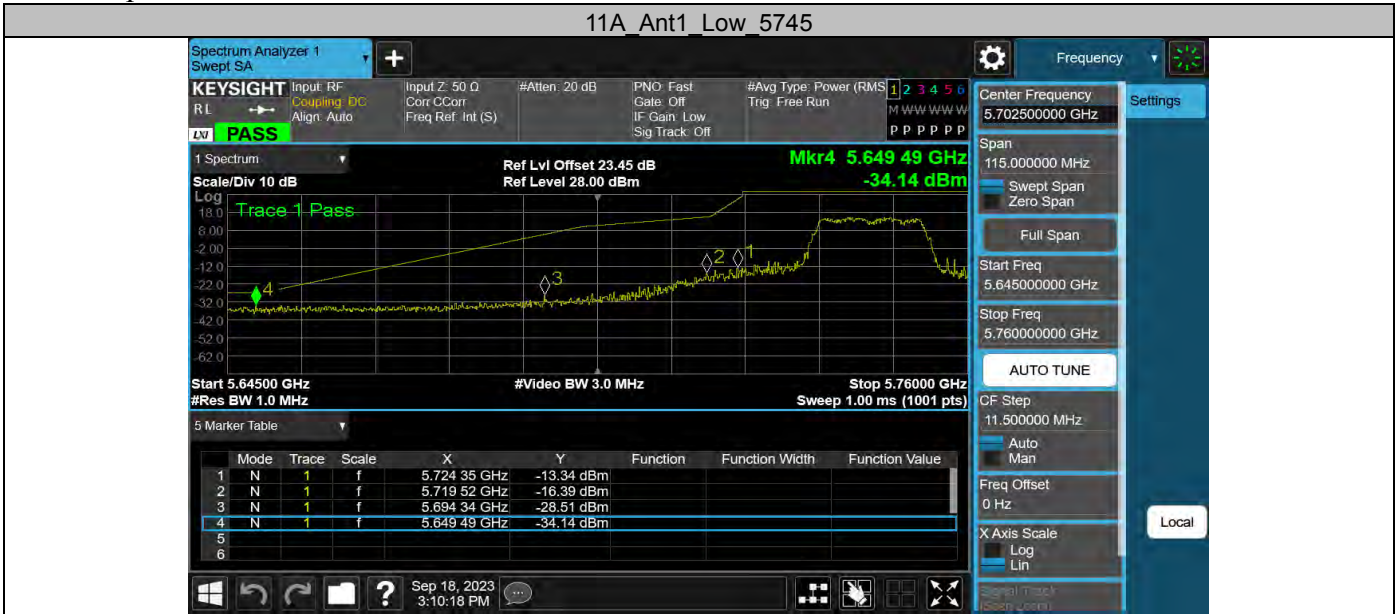
Test Result B4

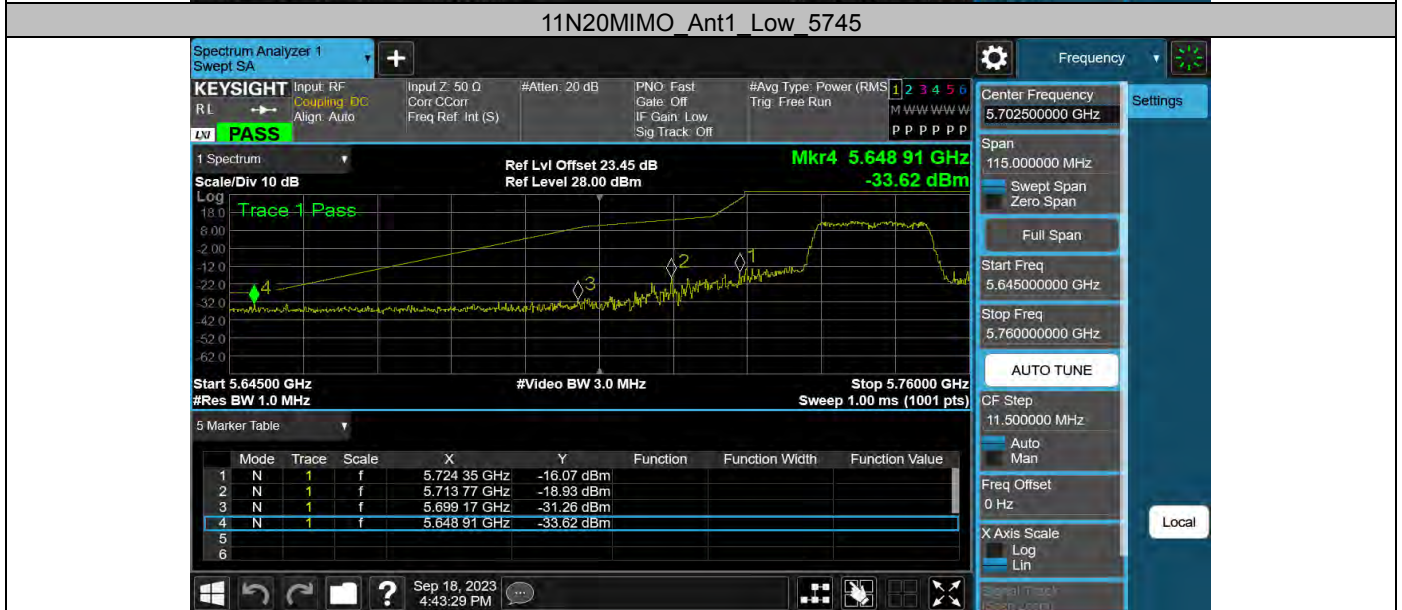
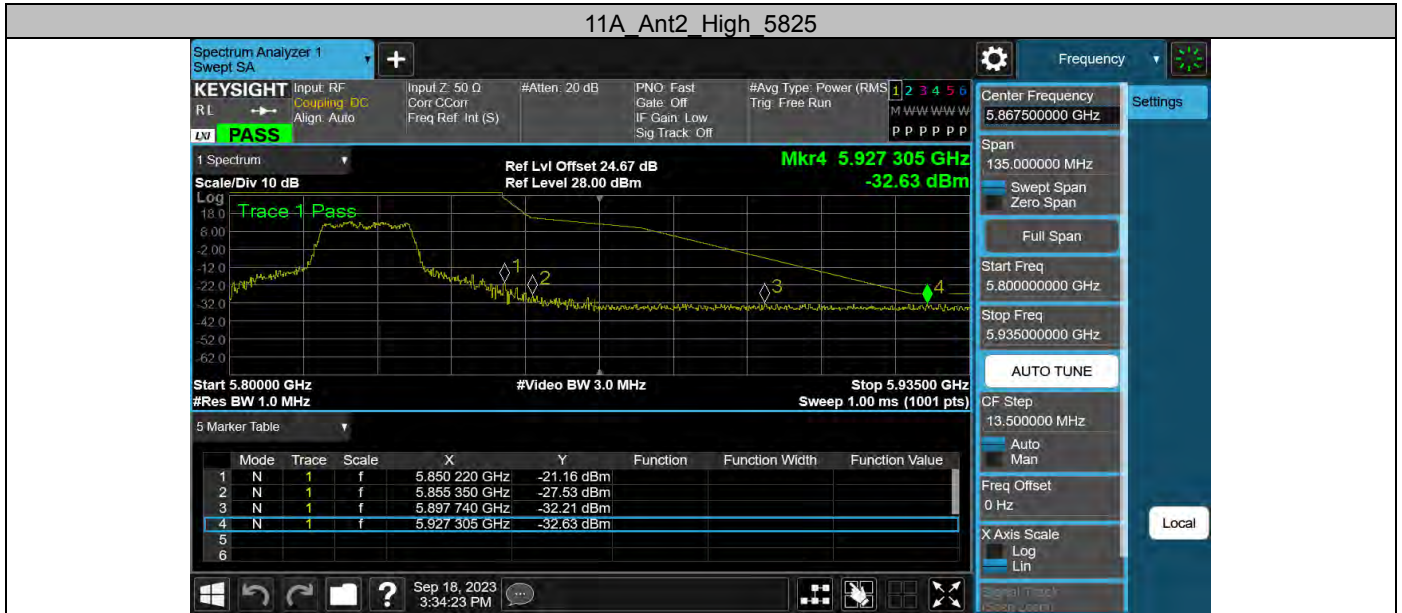
Test Mode	Antenna	Ch Name	Frequency [MHz]	Freq Range [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-28.51	≤5.81	PASS
				5700~5720	-16.39	≤15.47	PASS
				5720~5725	-13.34	≤25.52	PASS
				5760~5650	-34.14	≤-27	PASS
	Ant2	Low	5745	5650~5700	-30.08	≤9.13	PASS
				5700~5720	-17.47	≤15.34	PASS
				5720~5725	-12.65	≤26.30	PASS
				5760~5650	-32.44	≤-27	PASS
	Ant1	High	5825	5850~5855	-24.48	≤22.26	PASS
				5855~5875	-28.94	≤10.25	PASS
				5875~5925	-32.25	≤5.61	PASS
				5925~5935	-32.71	≤-27	PASS
	Ant2	High	5825	5850~5855	-21.16	≤16.10	PASS
				5855~5875	-27.54	≤10.10	PASS
				5875~5925	-32.21	≤-10.17	PASS
				5925~5935	-32.63	≤-27	PASS
11N20MIMO	Ant1	Low	5745	5650~5700	-31.26	≤9.38	PASS
				5700~5720	-18.93	≤13.86	PASS
				5720~5725	-16.07	≤25.52	PASS
				5760~5650	-33.62	≤-27	PASS
	Ant2	Low	5745	5650~5700	-28.71	≤9.55	PASS
				5700~5720	-19.73	≤14.85	PASS
				5720~5725	-16.45	≤23.42	PASS
				5760~5650	-33.2	≤-27	PASS
	Ant1	High	5825	5850~5855	-25.75	≤19.49	PASS
				5855~5875	-29.95	≤10.89	PASS
				5875~5925	-33.86	≤3.61	PASS
				5925~5935	-33.52	≤-27	PASS
	Ant2	High	5825	5850~5855	-23.74	≤20.41	PASS
				5855~5875	-27.9	≤11.50	PASS
				5875~5925	-31.36	≤-15.47	PASS
				5925~5935	-32.34	≤-27	PASS
11N40MIMO	Ant1	Low	5755	5650~5700	-33.85	≤-8.52	PASS
				5700~5720	-30.65	≤14.07	PASS
				5720~5725	-30.45	≤22.51	PASS
				5780~5650	-34.02	≤-27	PASS
	Ant2	Low	5755	5650~5700	-41.9	≤-23.31	PASS
				5700~5720	-36.44	≤15.58	PASS
				5720~5725	-38.45	≤24.05	PASS
				5780~5650	-42.35	≤-27	PASS
	Ant1	High	5795	5850~5855	-34.99	≤18.29	PASS
				5855~5875	-34.69	≤13.64	PASS
				5875~5925	-33.43	≤6.66	PASS
				5925~5935	-34.38	≤-27	PASS
	Ant2	High	5795	5850~5855	-32.4	≤23.93	PASS
				5855~5875	-32.19	≤12.26	PASS
				5875~5925	-31.64	≤-15.44	PASS
				5925~5935	-32.81	≤-27	PASS
11AC20MIMO O	Ant1	Low	5745	5650~5700	-33.84	≤-10.70	PASS
				5700~5720	-27.19	≤15.59	PASS
				5720~5725	-20.5	≤25.52	PASS
				5760~5650	-34.74	≤-27	PASS
	Ant2	Low	5745	5650~5700	-31.32	≤4.02	PASS

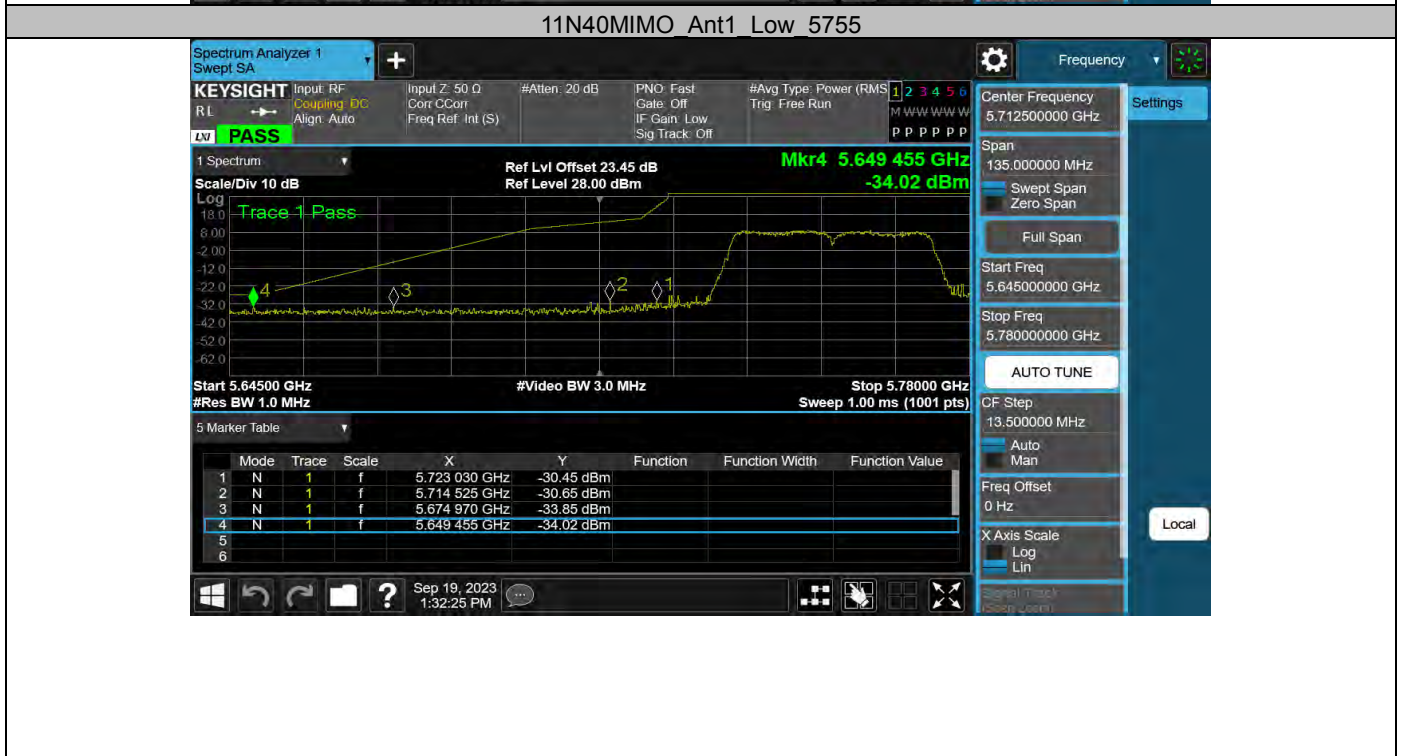
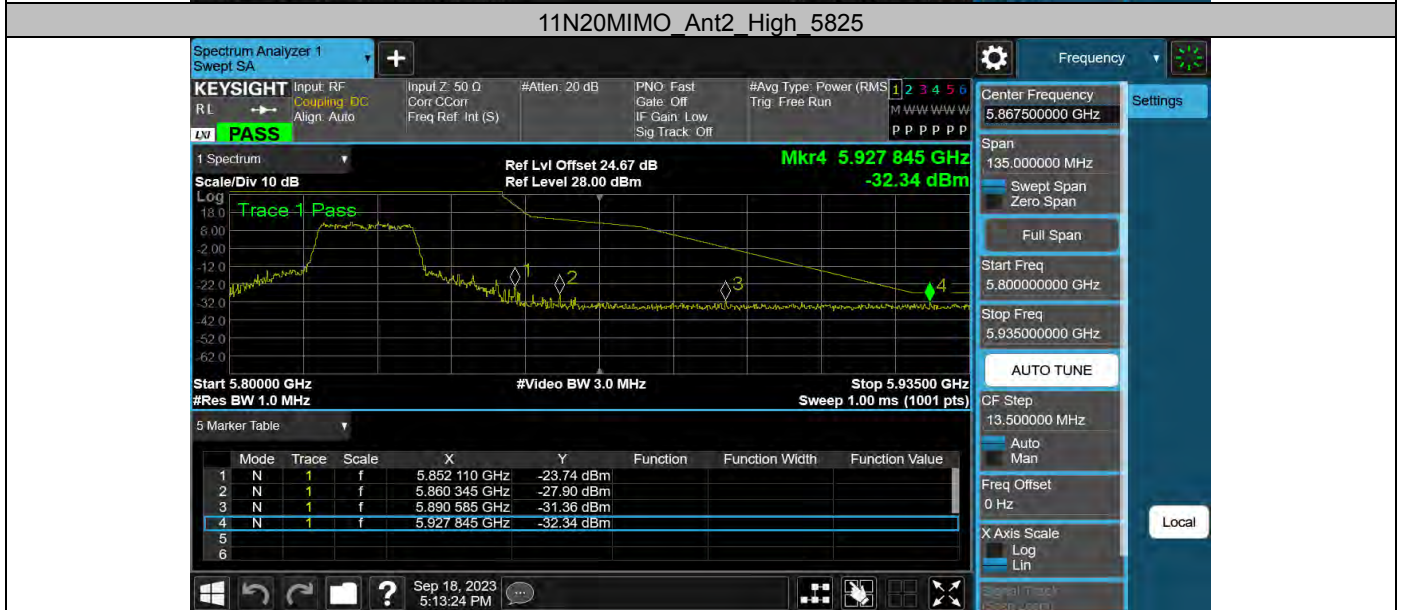
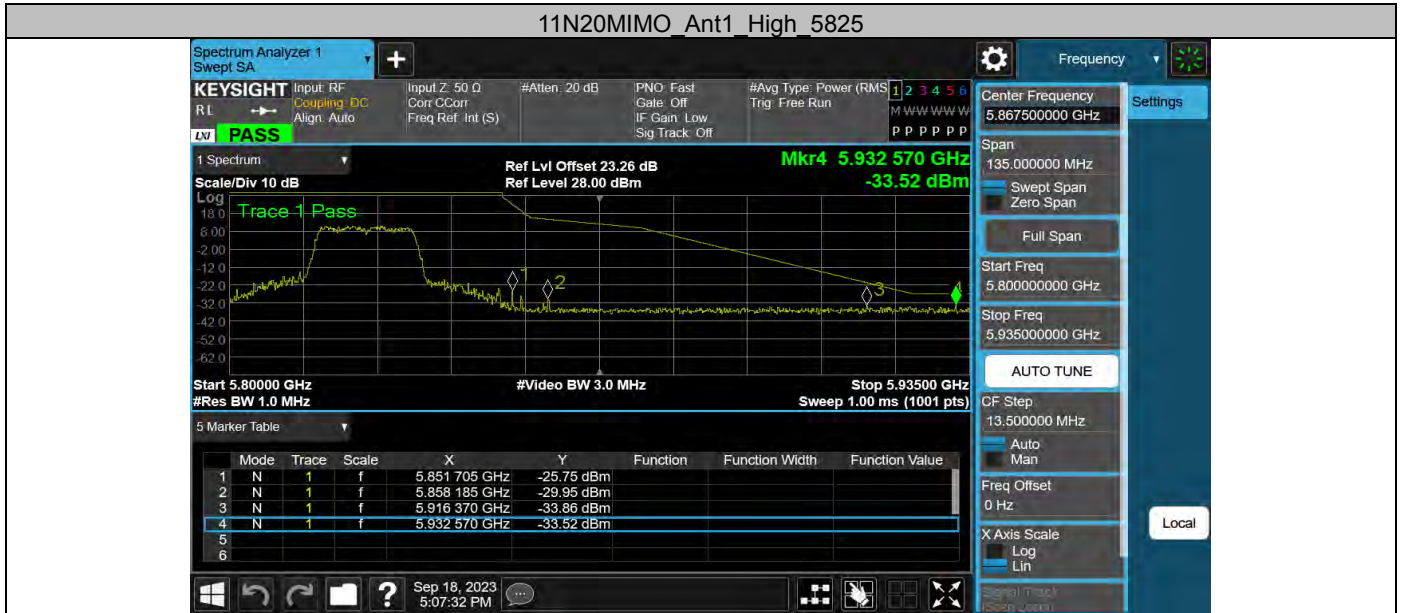
	Ant1	High	5825	5700~5720	-31.52	≤10.99	PASS
				5720~5725	-31.38	≤25.26	PASS
				5760~5650	-32.35	≤-27	PASS
				5850~5855	-34.55	≤18.87	PASS
				5855~5875	-34.18	≤12.71	PASS
				5875~5925	-33.69	≤-3.38	PASS
	Ant2	High	5825	5925~5935	-33.94	≤-27	PASS
				5850~5855	-32.79	≤24.10	PASS
				5855~5875	-32.66	≤14.41	PASS
				5875~5925	-32.66	≤-1.48	PASS
11AC40MIM O	Ant1	Low	5755	5925~5935	-33.17	≤-27	PASS
				5650~5700	-33.99	≤-4.13	PASS
				5700~5720	-32.63	≤15.35	PASS
				5720~5725	-32.53	≤26.82	PASS
	Ant2	Low	5755	5780~5650	-35.11	≤-27	PASS
				5650~5700	-31.08	≤7.46	PASS
				5700~5720	-27.56	≤15.01	PASS
				5720~5725	-26.42	≤19.12	PASS
	Ant1	High	5795	5780~5650	-32.31	≤-27	PASS
				5850~5855	-33.57	≤26.94	PASS
				5855~5875	-33.62	≤10.04	PASS
				5875~5925	-33.64	≤-1.28	PASS
	Ant2	High	5795	5925~5935	-33.71	≤-27	PASS
				5850~5855	-31.62	≤18.67	PASS
				5855~5875	-32.61	≤11.10	PASS
				5875~5925	-32.35	≤-10.81	PASS
11AC80MIM O	Ant1	Low	5775	5925~5935	-33.8	≤-27	PASS
				5850~5855	-31.62	≤18.67	PASS
				5855~5875	-32.61	≤11.10	PASS
				5875~5925	-32.35	≤-10.81	PASS
		High	5775	5650~5700	-31.36	≤1.65	PASS
				5700~5720	-30.33	≤15.39	PASS
				5720~5725	-28.77	≤20.59	PASS
				5800~5650	-34.53	≤-27	PASS
	Ant2	Low	5775	5850~5855	-31.81	≤19.17	PASS
				5855~5875	-30.88	≤11.16	PASS
				5875~5925	-33.23	≤-25.86	PASS
				5925~5935	-34.43	≤-27	PASS
		High	5775	5650~5700	-27.22	≤8.99	PASS
				5700~5720	-27.03	≤11.57	PASS
				5720~5725	-24.46	≤20.59	PASS
				5800~5650	-33.83	≤-27	PASS
11AX20MIM O	Ant1	Low	5745	5850~5855	-33.62	≤22.96	PASS
				5855~5875	-32.69	≤12.41	PASS
				5875~5925	-32.58	≤0.42	PASS
				5925~5935	-33.55	≤-27	PASS
	Ant2	Low	5745	5650~5700	-27.22	≤8.99	PASS
				5700~5720	-27.03	≤11.57	PASS
				5720~5725	-24.46	≤20.59	PASS
				5800~5650	-33.83	≤-27	PASS
	Ant1	High	5825	5850~5855	-33.68	≤22.57	PASS
				5855~5875	-33.25	≤12.44	PASS
				5875~5925	-32.9	≤-6.78	PASS
				5925~5935	-33.88	≤-27	PASS
	Ant2	High	5825	5850~5855	-33.62	≤23.80	PASS
				5855~5875	-30.6	≤10.14	PASS
				5875~5925	-31.71	≤-4.28	PASS
				5925~5935	-32.88	≤-27	PASS

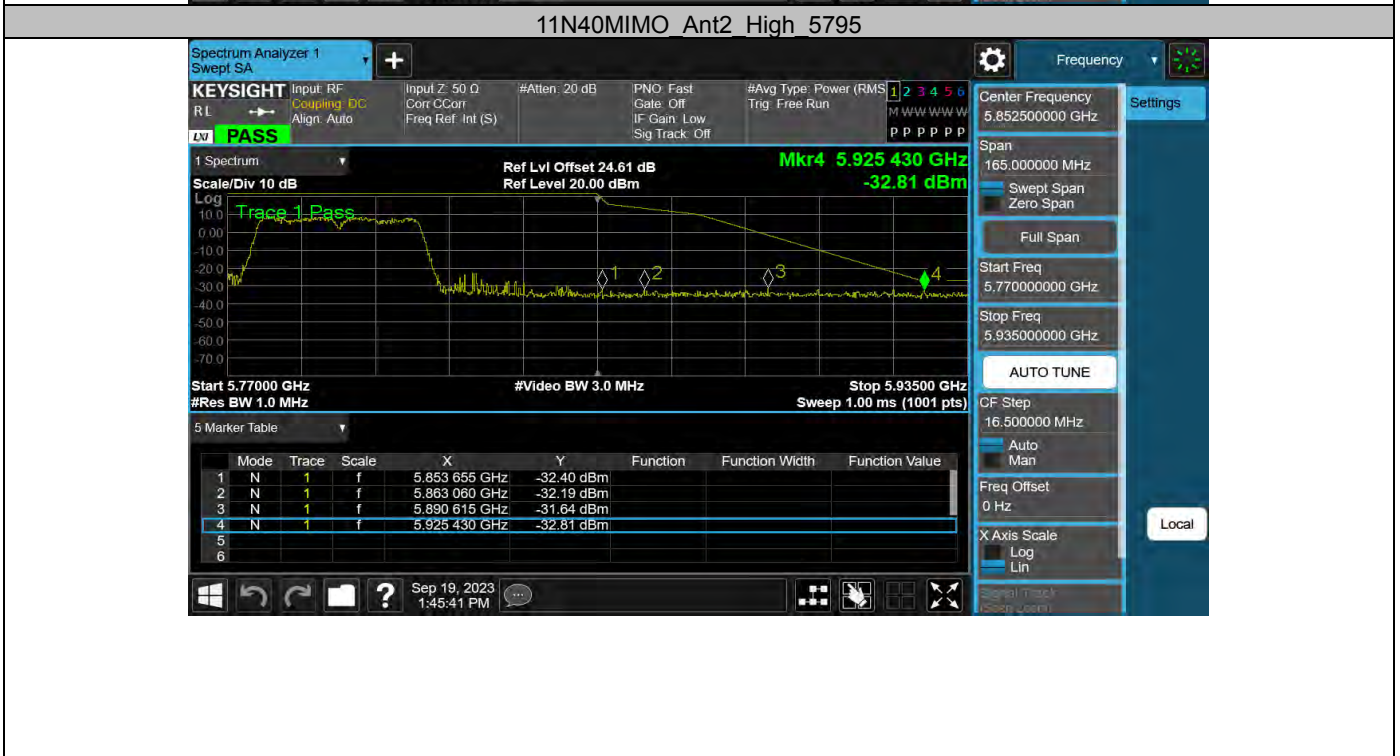
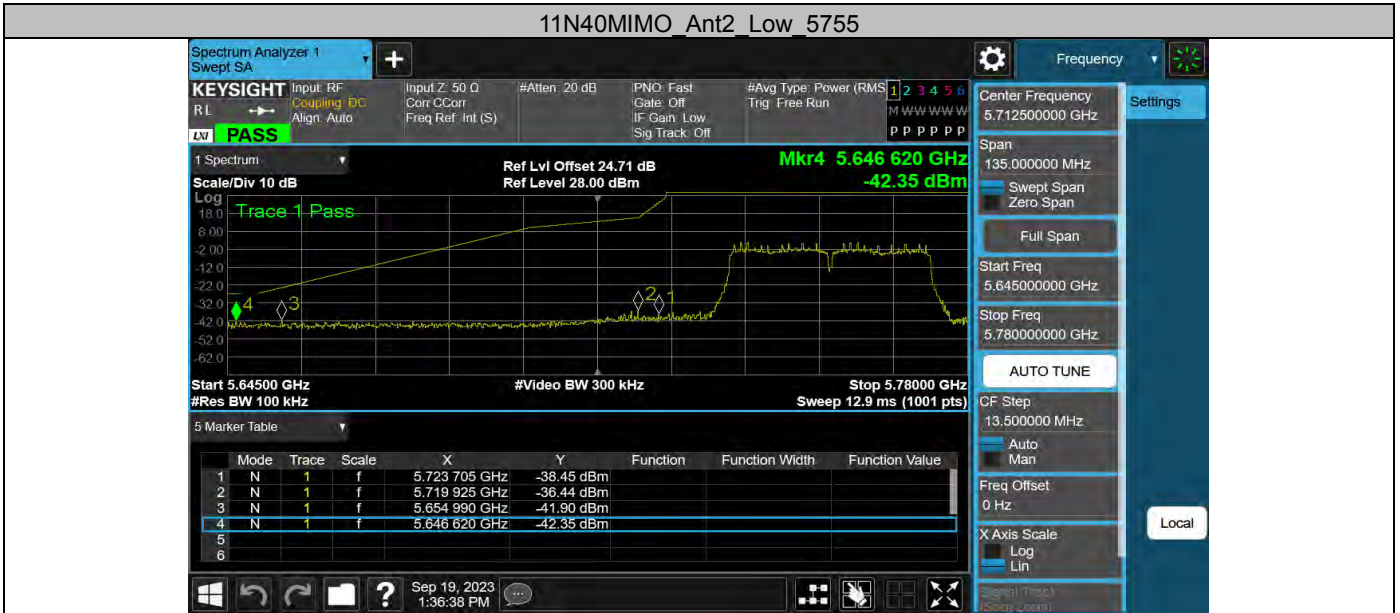
11AX40MIM O	Ant1	Low	5755	5650~5700	-34.08	≤-4.83	PASS
				5700~5720	-30.2	≤15.35	PASS
				5720~5725	-28.89	≤25.28	PASS
				5780~5650	-35.13	≤-27	PASS
	Ant2	Low	5755	5650~5700	-31.12	≤-10.72	PASS
				5700~5720	-30.01	≤15.35	PASS
				5720~5725	-29	≤26.82	PASS
				5780~5650	-33.47	≤-27	PASS
	Ant1	High	5795	5850~5855	-35.08	≤23.56	PASS
				5855~5875	-33.51	≤14.61	PASS
				5875~5925	-34.32	≤2.87	PASS
				5925~5935	-34.36	≤-27	PASS
Ant2	High	5795	5850~5855	-32.45	≤17.16	PASS	
			5855~5875	-30.9	≤11.84	PASS	
			5875~5925	-31.15	≤0.31	PASS	
			5925~5935	-31.88	≤-27	PASS	
11AX80MIM O	Ant1	Low	5775	5650~5700	-27.88	≤8.64	PASS
				5700~5720	-27.45	≤10.57	PASS
				5720~5725	-28.41	≤22.01	PASS
				5800~5650	-34.5	≤-27	PASS
		High	5775	5850~5855	-32.1	≤18.32	PASS
				5855~5875	-31.52	≤13.03	PASS
				5875~5925	-33.49	≤-4.37	PASS
				5925~5935	-34.76	≤-27	PASS
	Ant2	Low	5775	5650~5700	-28.79	≤-5.12	PASS
				5700~5720	-26.62	≤10.61	PASS
				5720~5725	-26.2	≤20.24	PASS
				5800~5650	-34.35	≤-27	PASS
		High	5775	5850~5855	-32.88	≤20.86	PASS
				5855~5875	-31.93	≤14.63	PASS
				5875~5925	-32.26	≤-11.49	PASS
				5925~5935	-32.71	≤-27	PASS

Test Graphs B4





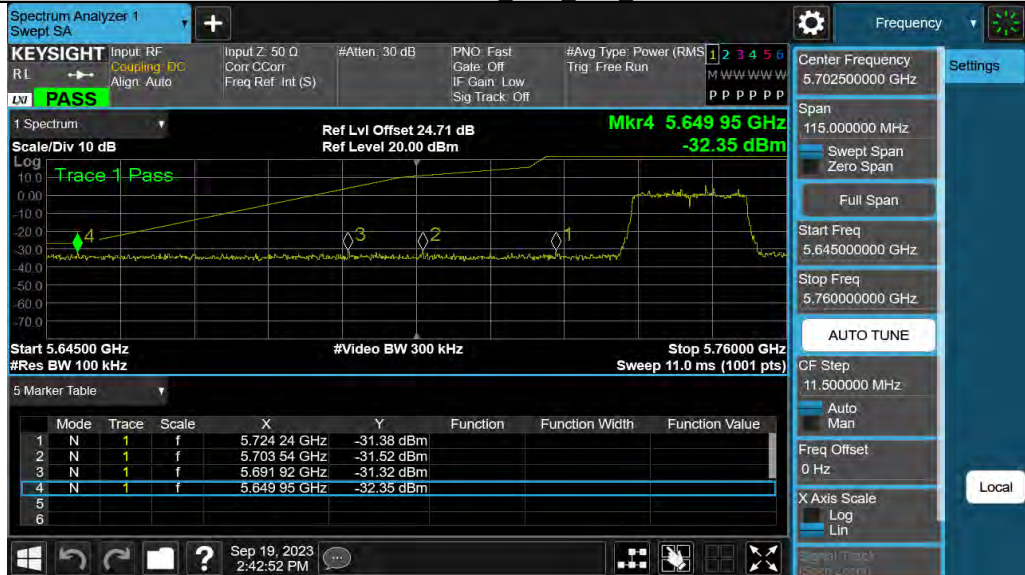




11AC20MIMO Ant1 Low 5745



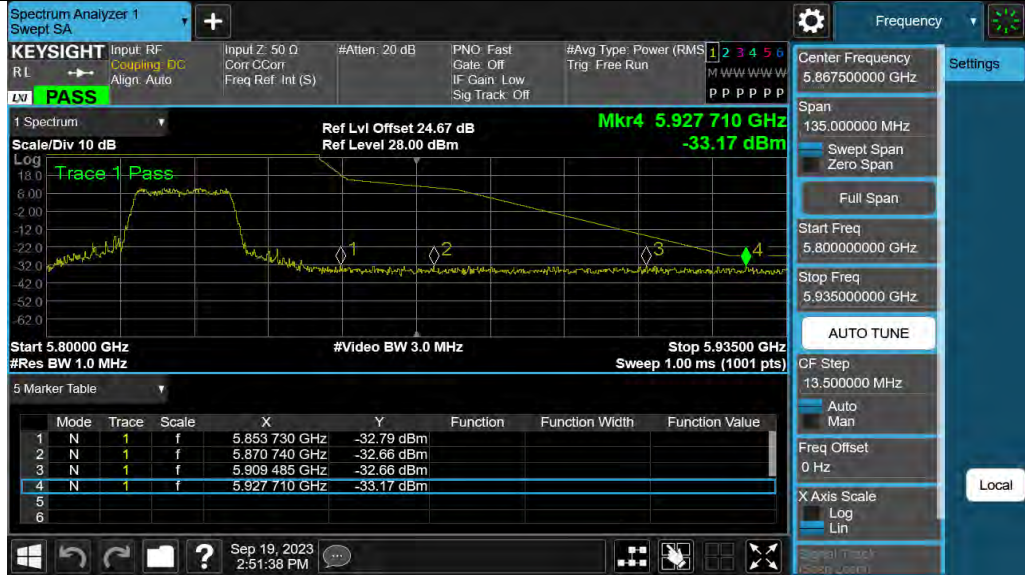
11AC20MIMO Ant2 Low 5745



11AC20MIMO Ant1 High 5825



11AC20MIMO Ant2 High 5825

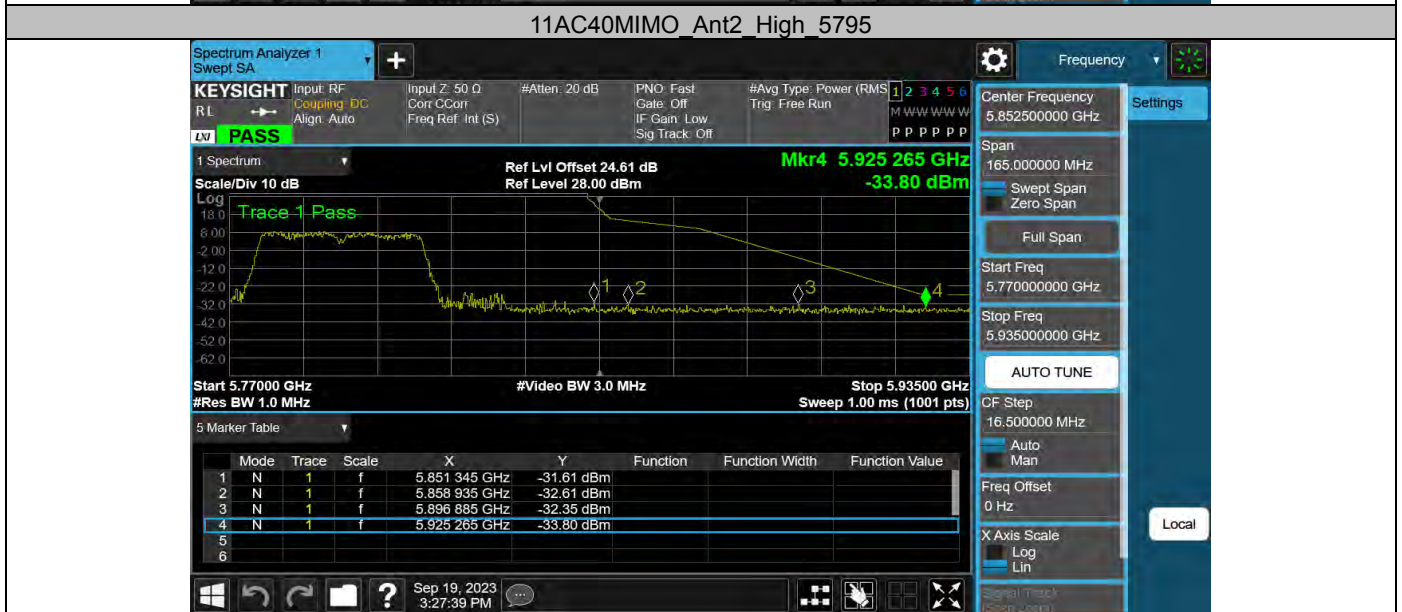
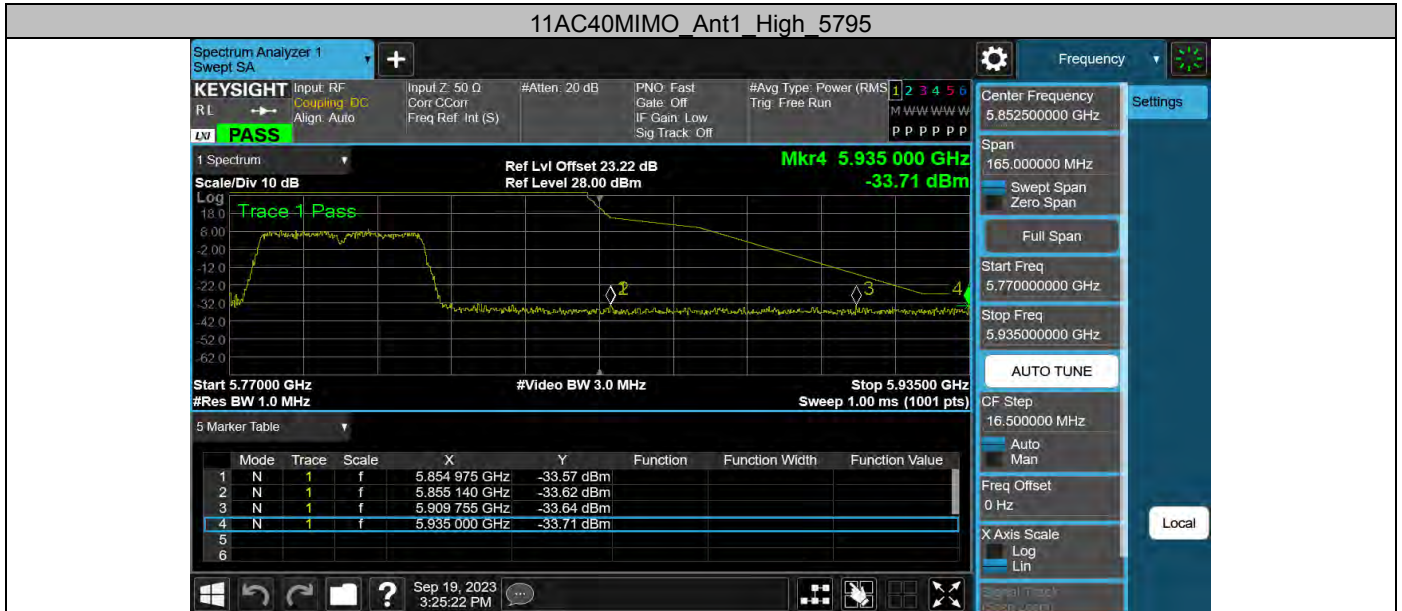


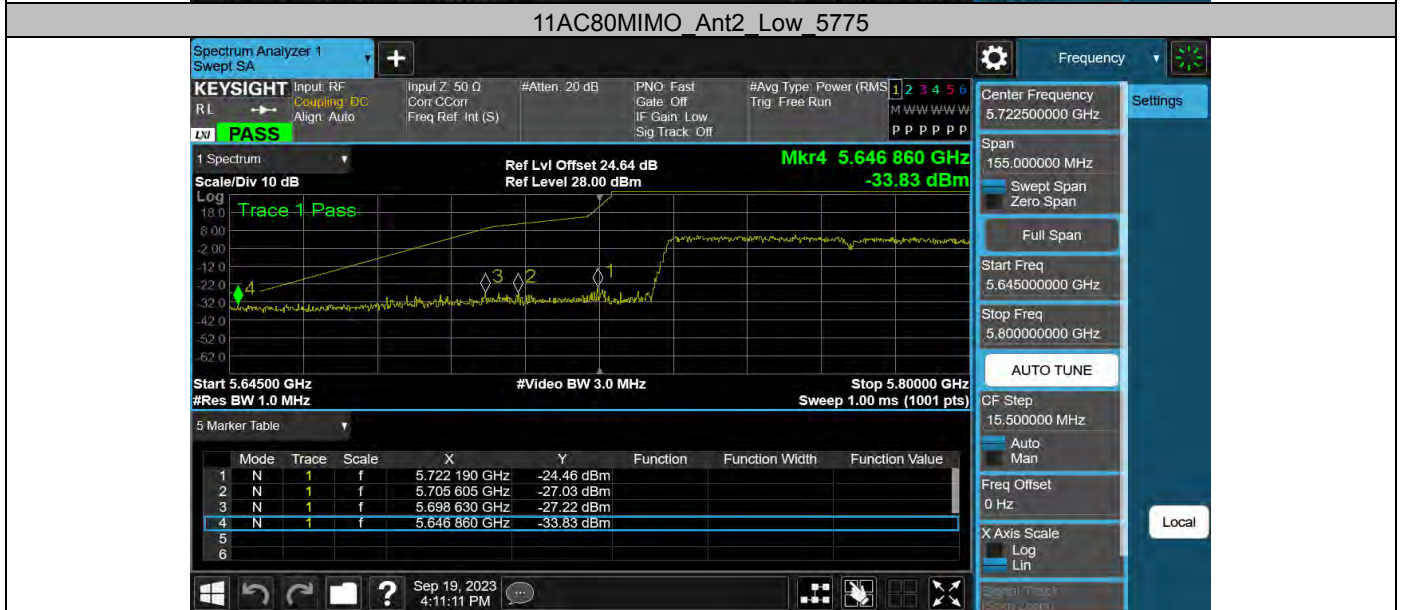
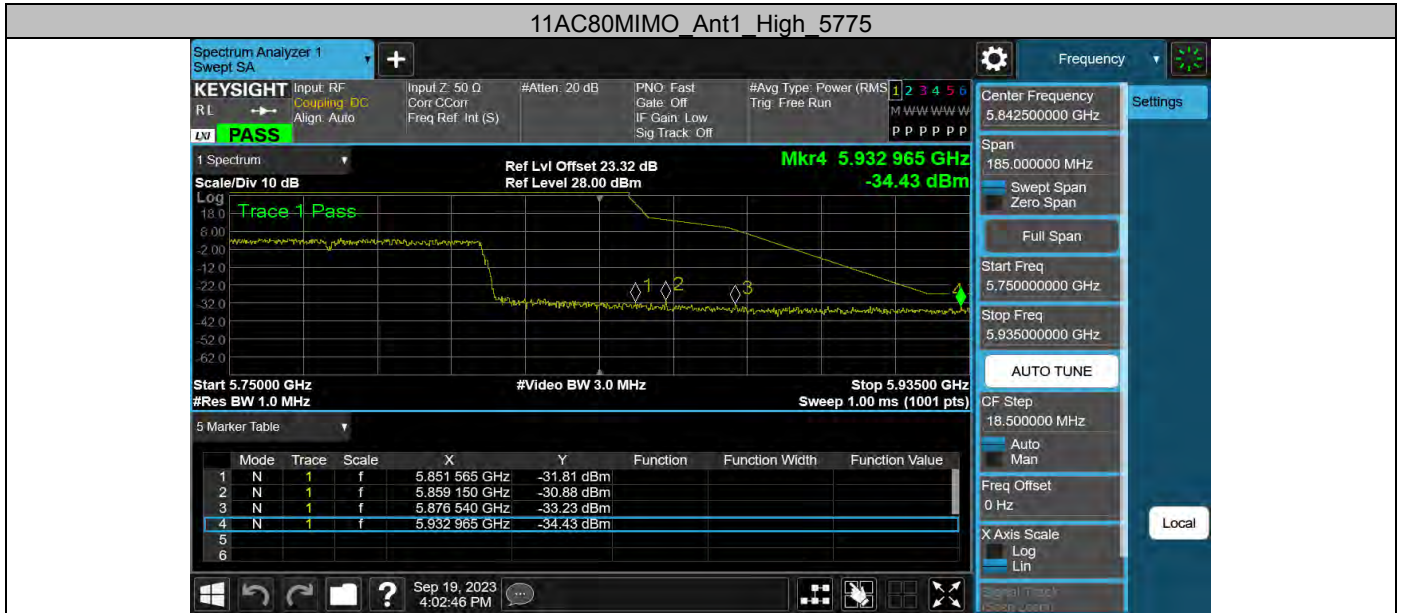
11AC40MIMO Ant1 Low 5755



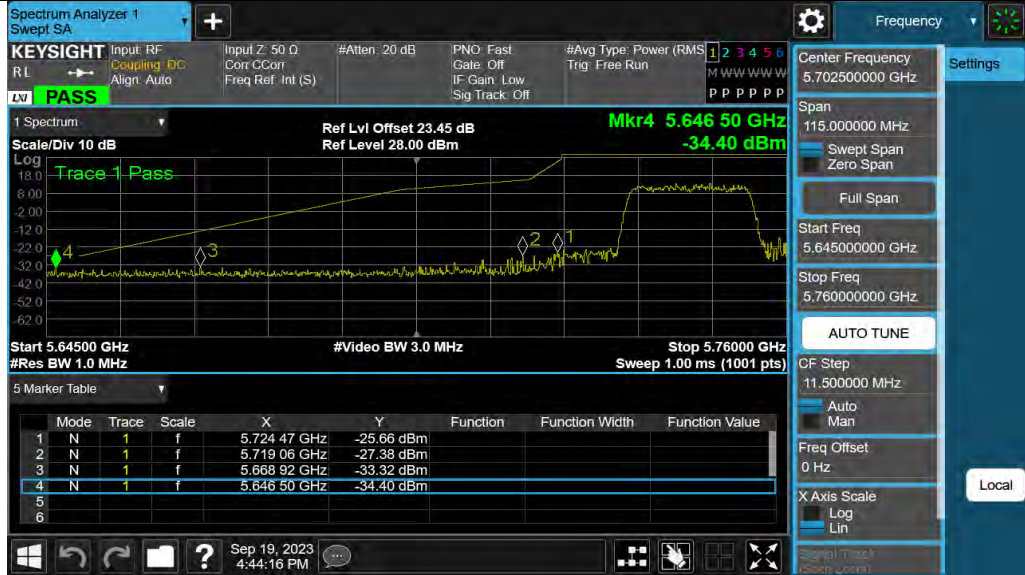
11AC40MIMO Ant2 Low 5755



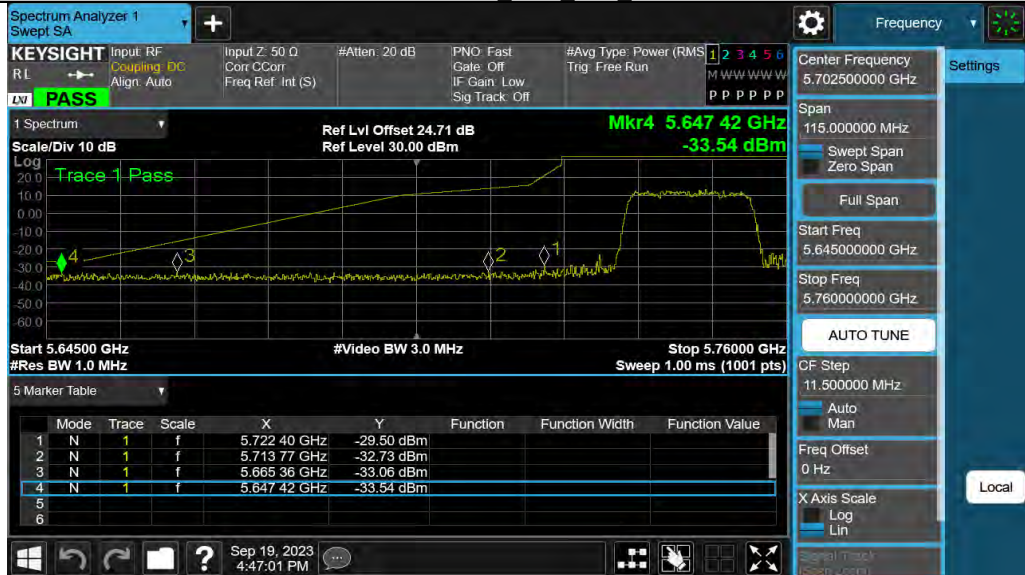




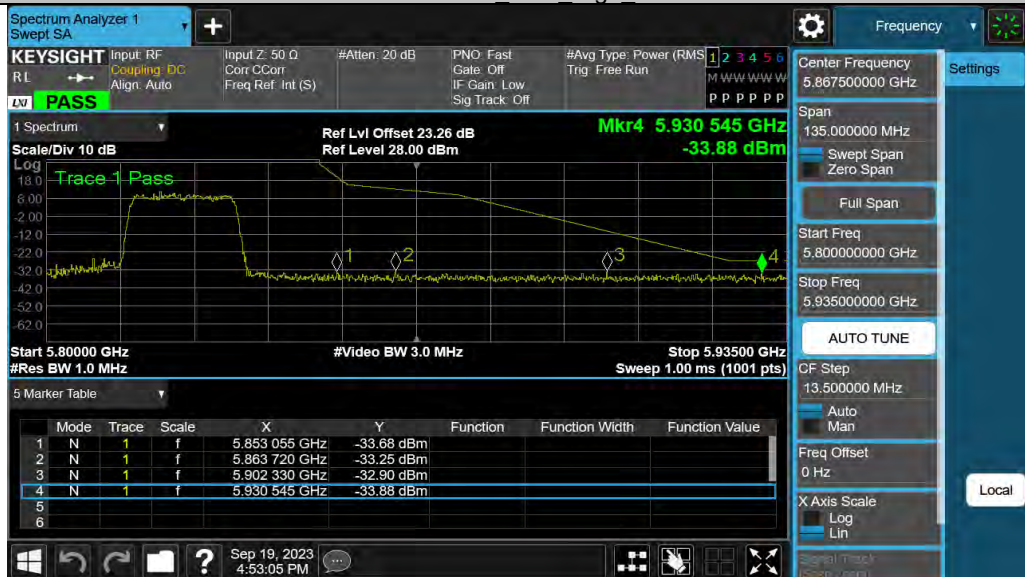
11AX20MIMO Ant1 Low 5745



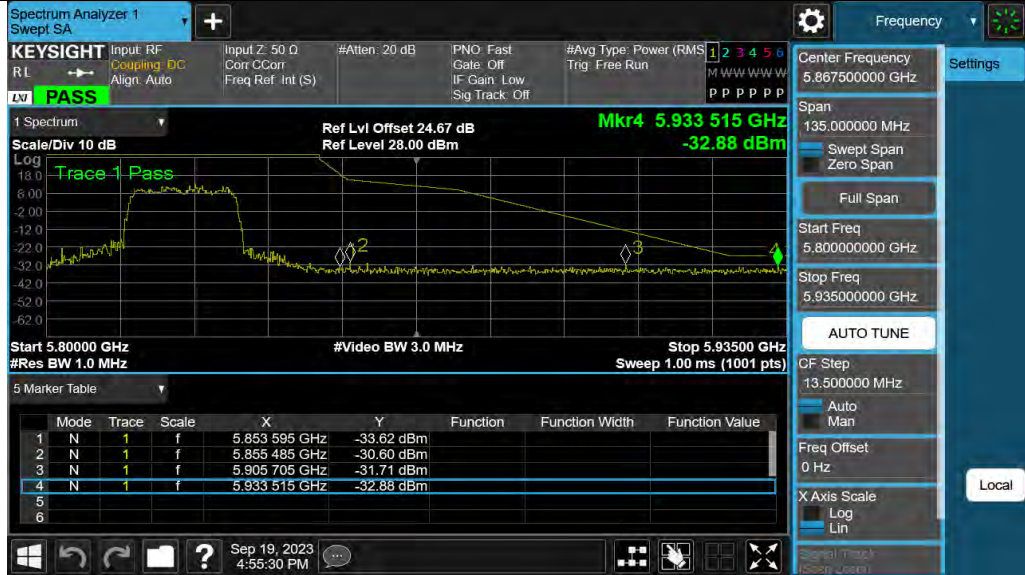
11AX20MIMO Ant2 Low 5745



11AX20MIMO Ant1 High 5825



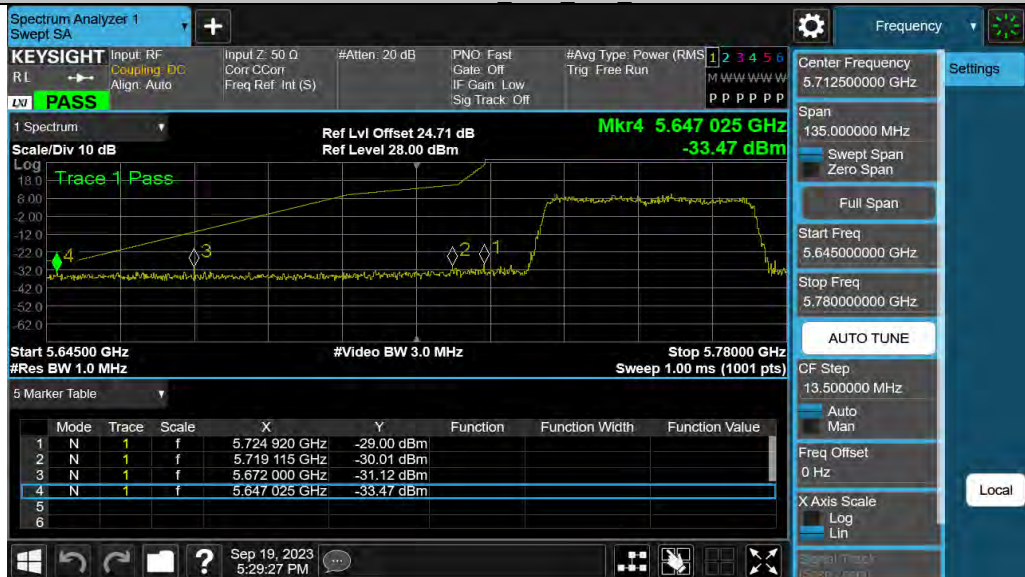
11AX20MIMO Ant2 High 5825



11AX40MIMO Ant1 Low 5755



11AX40MIMO Ant2 Low 5755



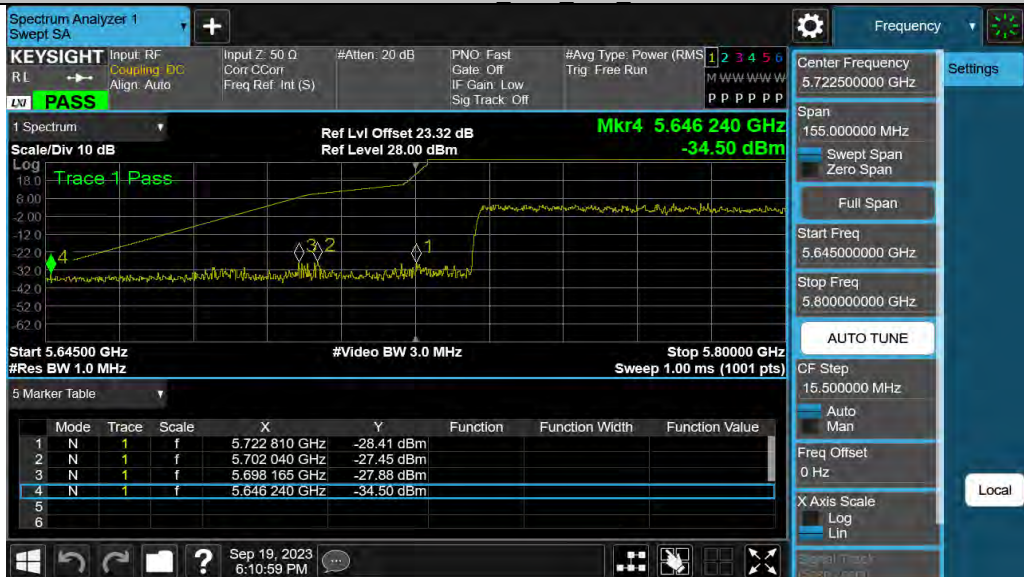
11AX40MIMO Ant1 High 5795

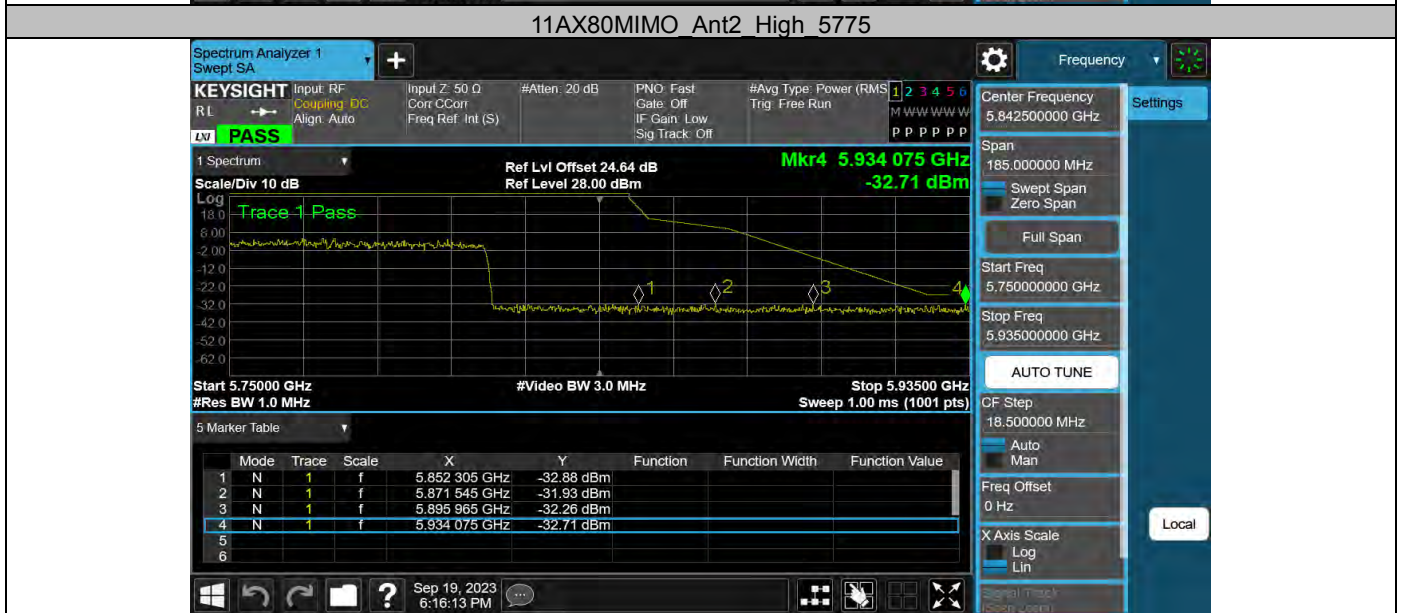
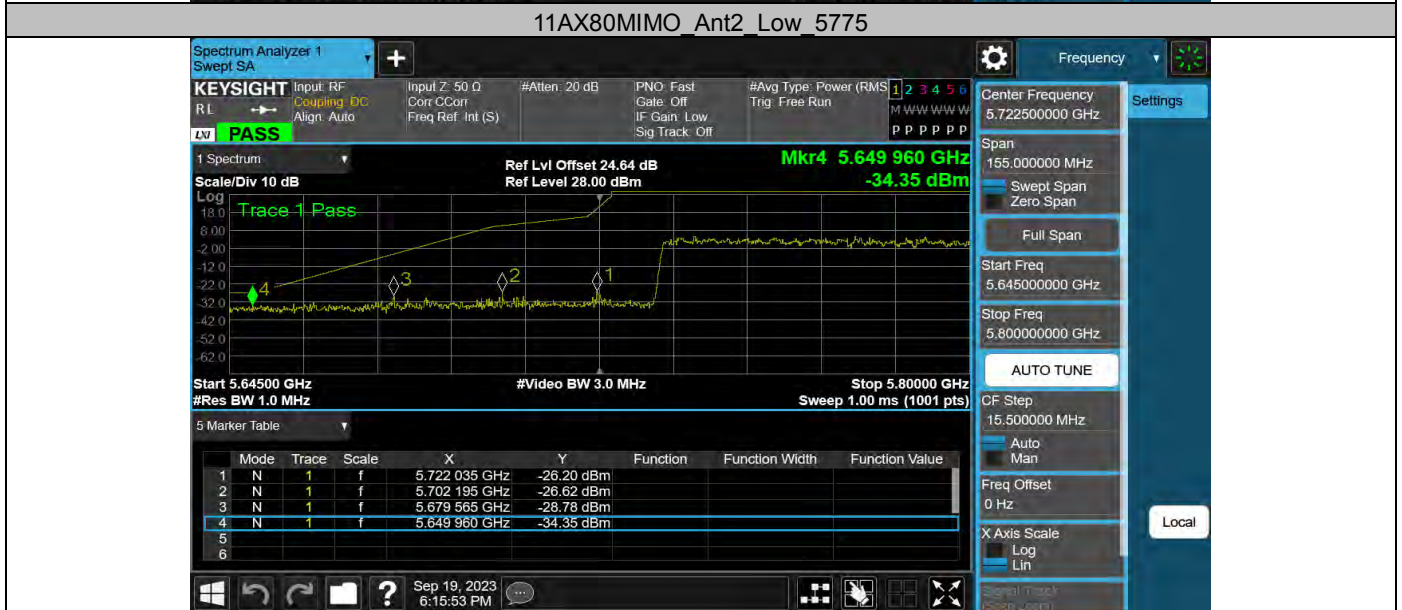
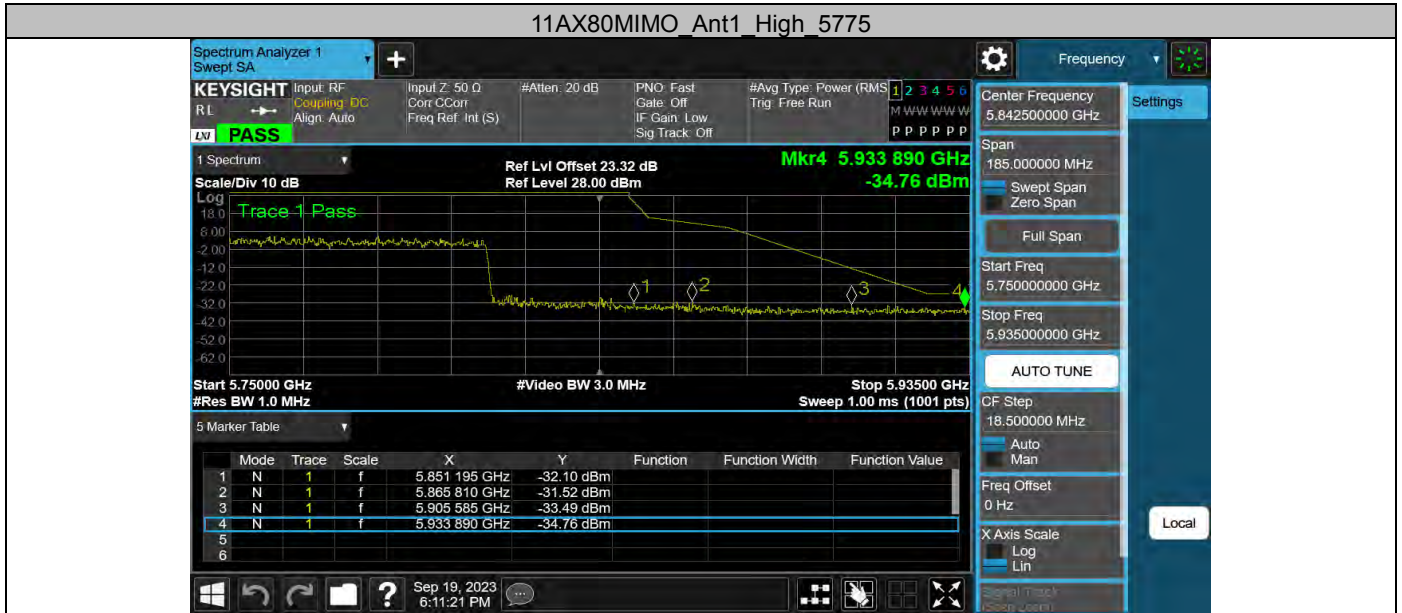


11AX40MIMO Ant2 High 5795



11AX80MIMO Ant1 Low 5775





Appendix H: Frequency Stability
Test Result

Voltage								
Test Mode	Antenna	Frequency[M Hz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	-20000.00	-3.861004	20	PASS
		5260	NV	NT	-20000.00	-3.802281	20	PASS
			LV	NT	-40000.00	-7.604563	20	PASS
			HV	NT	-40000.00	-7.604563	20	PASS
		5500	NV	NT	-40000.00	-7.272727	20	PASS
			LV	NT	-40000.00	-7.272727	20	PASS
			HV	NT	-40000.00	-7.272727	20	PASS
		5745	NV	NT	-20000.00	-3.481288	20	PASS
			LV	NT	-40000.00	-6.962576	20	PASS
			HV	NT	-20000.00	-3.481288	20	PASS

Temperature										
Test Mode	Antenna	Frequency[M Hz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict		
11A	Ant1	5180	NV	-30	-20000.00	-3.861004	20	PASS		
			NV	-20	-40000.00	-7.722008	20	PASS		
			NV	-10	-20000.00	-3.861004	20	PASS		
			NV	0	-20000.00	-3.861004	20	PASS		
			NV	10	-20000.00	-3.861004	20	PASS		
			NV	20	-20000.00	-3.861004	20	PASS		
			NV	30	-40000.00	-7.722008	20	PASS		
			NV	40	-40000.00	-7.722008	20	PASS		
		5260	NV	-30	-20000.00	-3.802281	20	PASS		
			NV	-20	-40000.00	-7.604563	20	PASS		
			NV	-10	-40000.00	-7.604563	20	PASS		
			NV	0	-20000.00	-3.802281	20	PASS		
			NV	10	-40000.00	-7.604563	20	PASS		
			NV	20	-40000.00	-7.604563	20	PASS		
			NV	30	-20000.00	-3.802281	20	PASS		
			NV	40	-40000.00	-7.604563	20	PASS		
		5500	NV	-30	-20000.00	-3.636364	20	PASS		
			NV	-20	-40000.00	-7.272727	20	PASS		
			NV	-10	-20000.00	-3.636364	20	PASS		
			NV	0	-40000.00	-7.272727	20	PASS		
			NV	10	-40000.00	-7.272727	20	PASS		
			NV	20	-20000.00	-3.636364	20	PASS		
			NV	30	-20000.00	-3.636364	20	PASS		
			NV	40	-20000.00	-3.636364	20	PASS		
		5745	NV	-30	-20000.00	-3.481288	20	PASS		
			NV	-20	-40000.00	-6.962576	20	PASS		
			NV	-10	-40000.00	-6.962576	20	PASS		
			NV	0	-40000.00	-6.962576	20	PASS		
			NV	10	-20000.00	-3.481288	20	PASS		
			NV	20	-40000.00	-6.962576	20	PASS		
			NV	30	-20000.00	-3.481288	20	PASS		
			NV	40	-40000.00	-6.962576	20	PASS		
					NV	50	-40000.00	-6.962576	20	PASS

11. TEST SETUP PHOTO

Refer to report no. ESTE-R2311015 (Appendix A)

12. EUT PHOTO

Refer to report no. ESTE-R2311016 (Appendix B)

End of Test Report