11N40MIMO-Ant1-5190-PASS

11N40MIMO-Ant2-5190-PASS

11N40MIMO-Ant1-5230-PASS

11N40MIMO-Ant2-5230-PASS

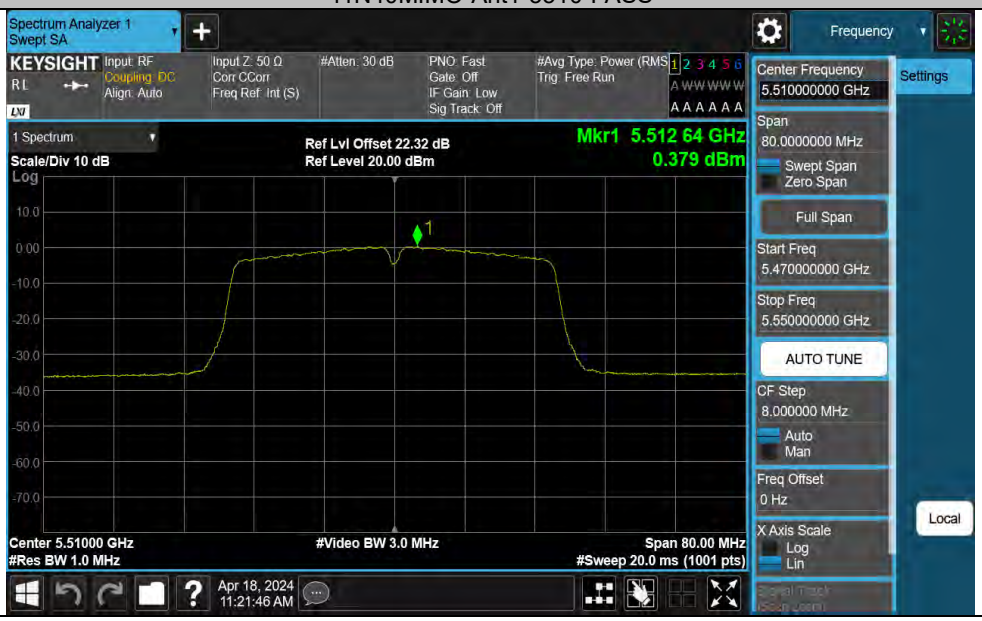
11N40MIMO-Ant1-5270-PASS

11N40MIMO-Ant2-5270-PASS

11N40MIMO-Ant1-5310-PASS

11N40MIMO-Ant2-5310-PASS

11N40MIMO-Ant1-5510-PASS



11N40MIMO-Ant2-5510-PASS

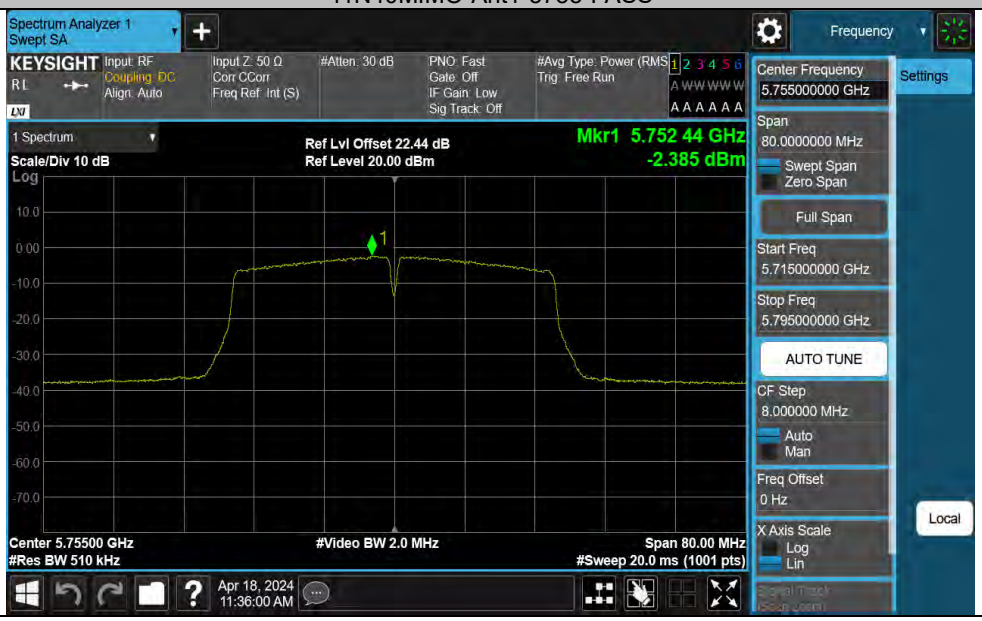
11N40MIMO-Ant1-5590-PASS

11N40MIMO-Ant2-5590-PASS

11N40MIMO-Ant1-5670-PASS

11N40MIMO-Ant2-5670-PASS

11N40MIMO-Ant1-5755-PASS



11N40MIMO-Ant2-5755-PASS

11N40MIMO-Ant1-5795-PASS

11N40MIMO-Ant2-5795-PASS

11AC20MIMO-Ant1-5180-PASS

11AC20MIMO-Ant2-5180-PASS

11AC20MIMO-Ant1-5200-PASS

11AC20MIMO-Ant2-5200-PASS

11AC20MIMO-Ant1-5240-PASS

11AC20MIMO-Ant2-5240-PASS

11AC20MIMO-Ant1-5260-PASS

11AC20MIMO-Ant2-5260-PASS

11AC20MIMO-Ant1-5300-PASS

11AC20MIMO-Ant2-5300-PASS

11AC20MIMO-Ant1-5320-PASS

11AC20MIMO-Ant2-5320-PASS

11AC20MIMO-Ant1-5500-PASS

11AC20MIMO-Ant2-5500-PASS

11AC20MIMO-Ant1-5580-PASS

11AC20MIMO-Ant2-5580-PASS

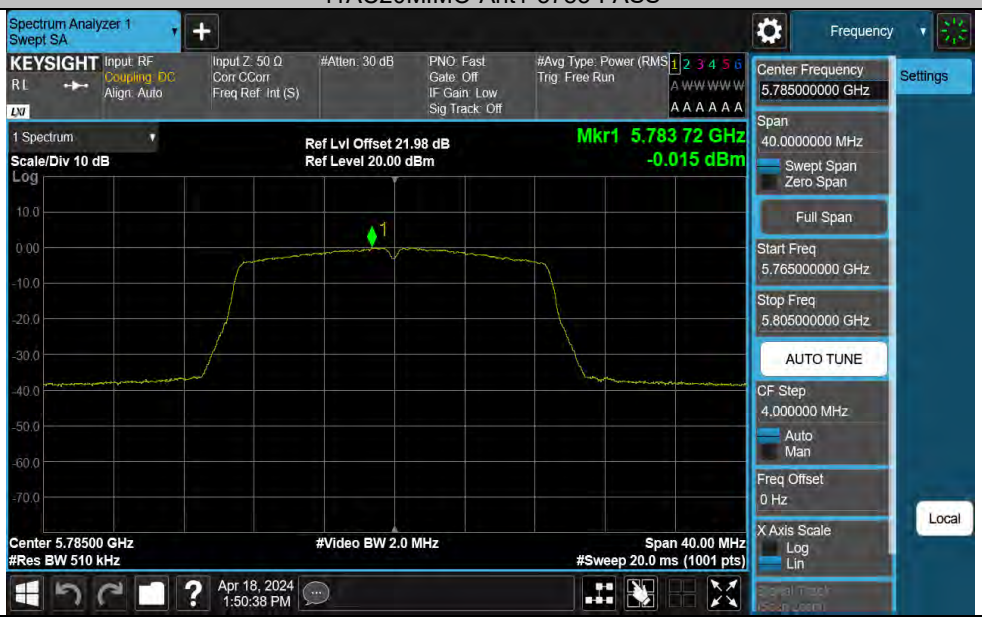
11AC20MIMO-Ant1-5700-PASS

11AC20MIMO-Ant2-5700-PASS

11AC20MIMO-Ant1-5745-PASS

11AC20MIMO-Ant2-5745-PASS

11AC20MIMO-Ant1-5785-PASS



11AC20MIMO-Ant2-5785-PASS

11AC20MIMO-Ant1-5825-PASS

11AC20MIMO-Ant2-5825-PASS

11AC40MIMO-Ant1-5190-PASS

11AC40MIMO-Ant2-5190-PASS

11AC40MIMO-Ant1-5230-PASS

11AC40MIMO-Ant2-5230-PASS

11AC40MIMO-Ant1-5270-PASS

11AC40MIMO-Ant2-5270-PASS

11AC40MIMO-Ant1-5310-PASS

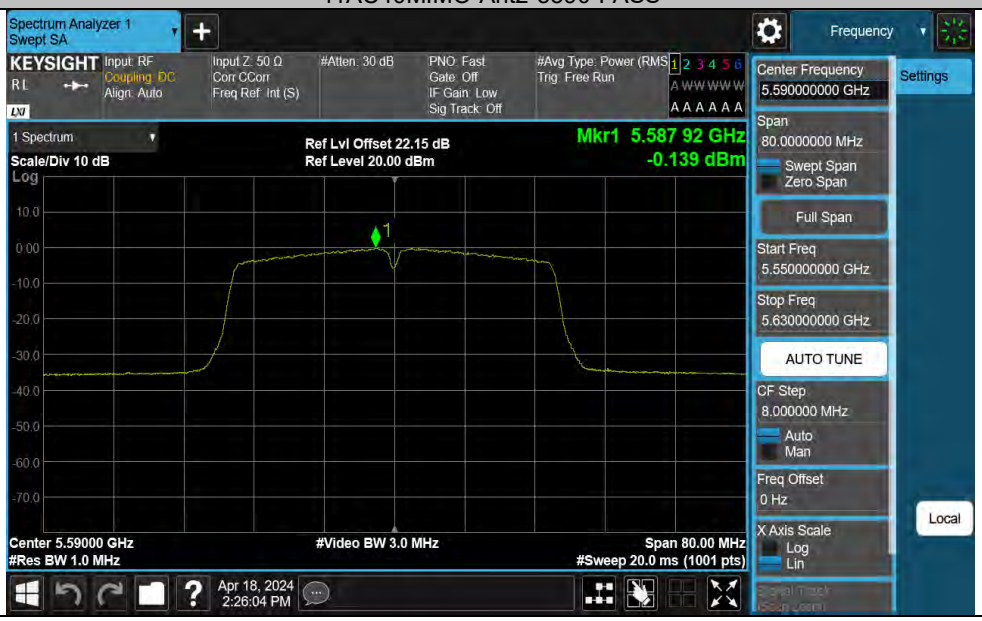
11AC40MIMO-Ant2-5310-PASS

11AC40MIMO-Ant1-5510-PASS

11AC40MIMO-Ant2-5510-PASS

11AC40MIMO-Ant1-5590-PASS

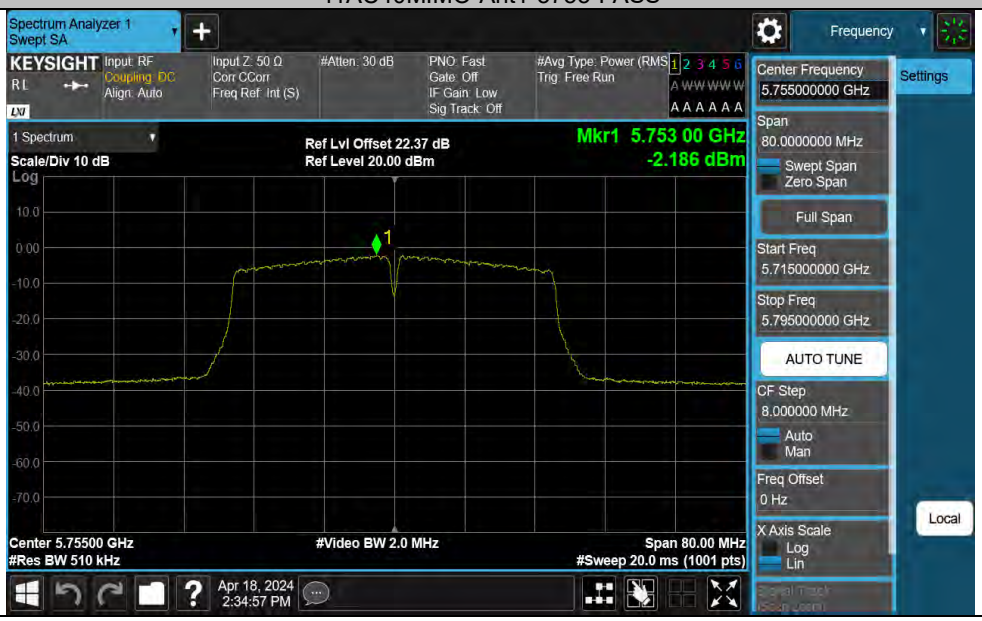
11AC40MIMO-Ant2-5590-PASS



11AC40MIMO-Ant1-5670-PASS

11AC40MIMO-Ant2-5670-PASS

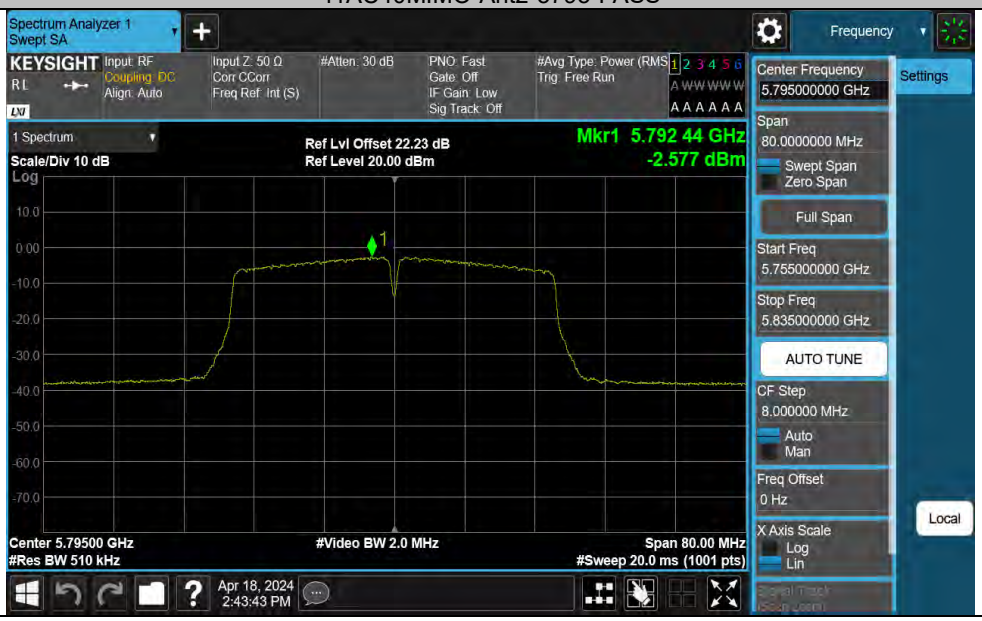
11AC40MIMO-Ant1-5755-PASS



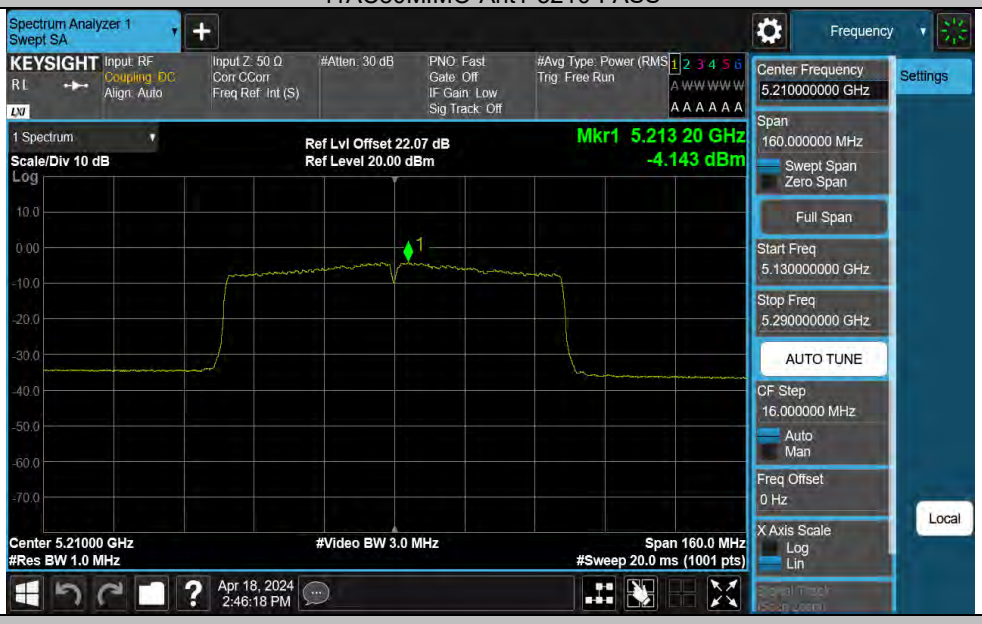
11AC40MIMO-Ant2-5755-PASS

11AC40MIMO-Ant1-5795-PASS

11AC40MIMO-Ant2-5795-PASS



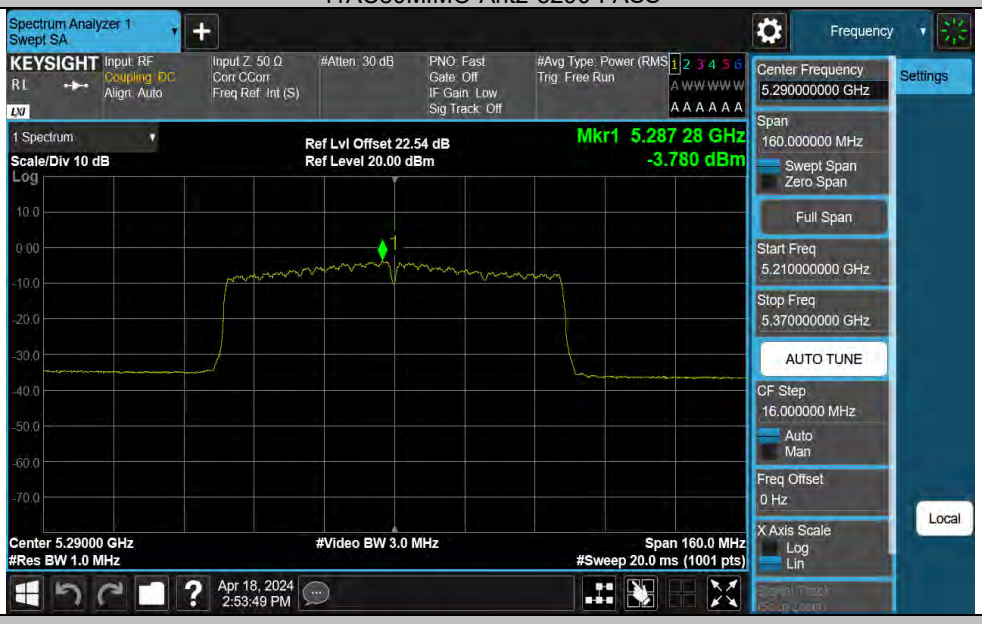
11AC80MIMO-Ant1-5210-PASS



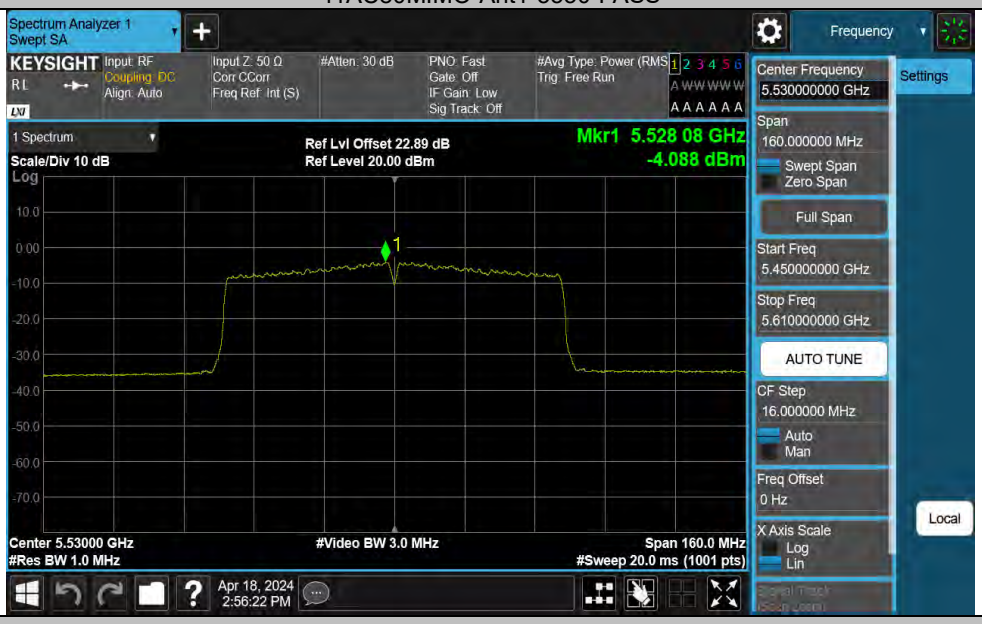
11AC80MIMO-Ant2-5210-PASS

11AC80MIMO-Ant1-5290-PASS

11AC80MIMO-Ant2-5290-PASS



11AC80MIMO-Ant1-5530-PASS



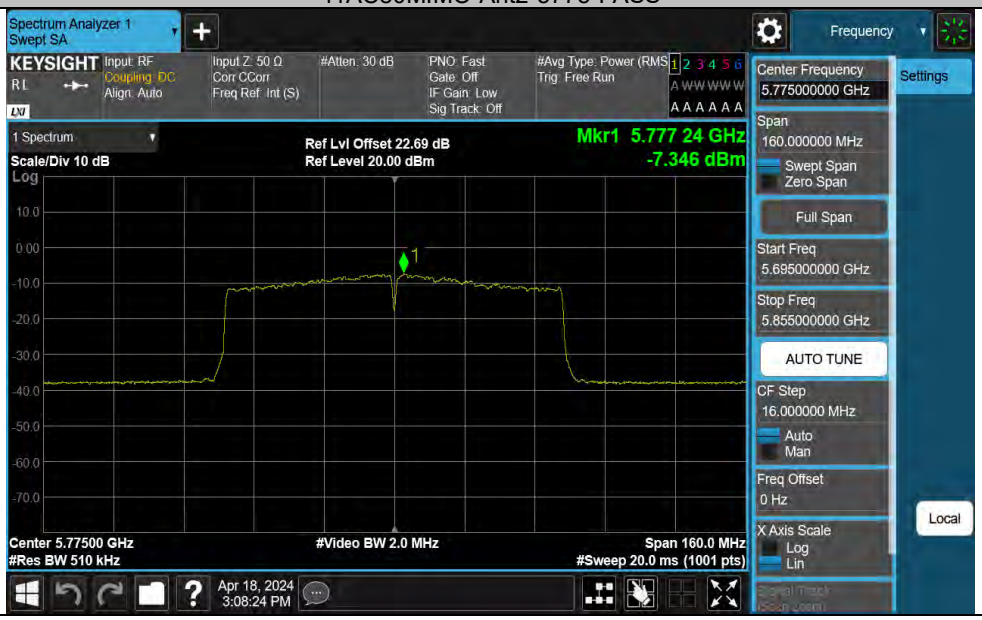
11AC80MIMO-Ant2-5530-PASS

11AC80MIMO-Ant1-5610-PASS

11AC80MIMO-Ant2-5610-PASS

11AC80MIMO-Ant1-5775-PASS

11AC80MIMO-Ant2-5775-PASS



Appendix E: Band edge measurements
Test Result B4

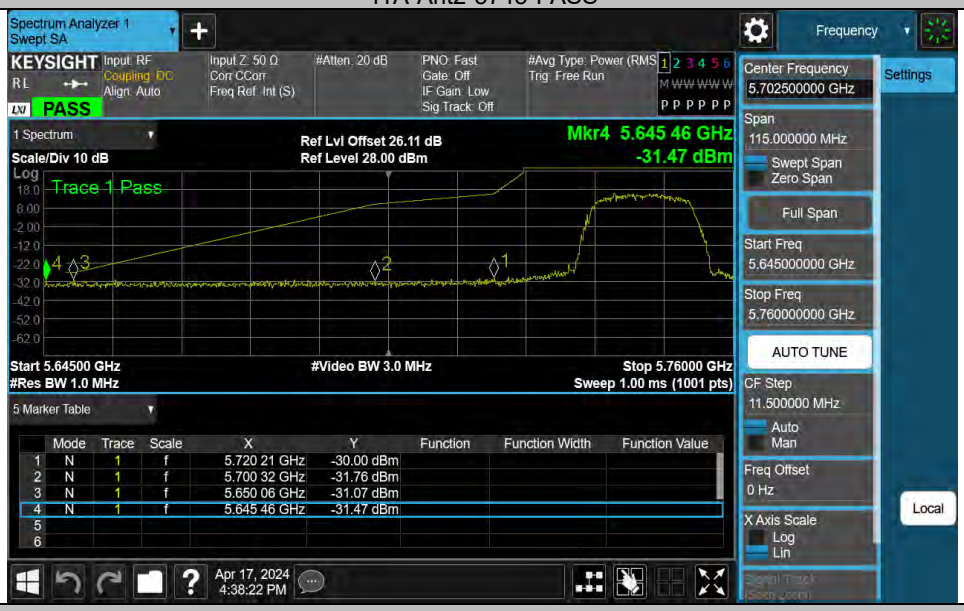
Test Mode	Antenna	ChName	Frequency[MHz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5720~5725	-31.02	≤16.60	PASS
11A	Ant1	Low	5745	5700~5720	-32.09	≤10.02	PASS
11A	Ant1	Low	5745	5650~5700	-32.31	≤-26.87	PASS
11A	Ant1	Low	5745	5760~5650	-31.02	≤-27	PASS
11A	Ant2	Low	5745	5720~5725	-30	≤16.08	PASS
11A	Ant2	Low	5745	5700~5720	-31.76	≤10.09	PASS
11A	Ant2	Low	5745	5650~5700	-31.08	≤-26.96	PASS
11A	Ant2	Low	5745	5760~5650	-31.47	≤-27	PASS
11A	Ant1	High	5825	5850~5855	-31.25	≤16.65	PASS
11A	Ant1	High	5825	5855~5875	-30.44	≤10.32	PASS
11A	Ant1	High	5825	5875~5925	-31	≤-25.01	PASS
11A	Ant1	High	5825	5925~5935	-30.1	≤-27	PASS
11A	Ant2	High	5825	5850~5855	-32.58	≤15.73	PASS
11A	Ant2	High	5825	5855~5875	-30.94	≤10.70	PASS
11A	Ant2	High	5825	5875~5925	-31.24	≤-26.51	PASS
11A	Ant2	High	5825	5925~5935	-31.33	≤-27	PASS
11N20MIMO	Ant1	Low	5745	5720~5725	-30.3	≤17.13	PASS
11N20MIMO	Ant1	Low	5745	5700~5720	-31.16	≤10.22	PASS
11N20MIMO	Ant1	Low	5745	5650~5700	-31.26	≤-26.62	PASS
11N20MIMO	Ant1	Low	5745	5760~5650	-30.34	≤-27	PASS
11N20MIMO	Ant2	Low	5745	5720~5725	-30.58	≤16.34	PASS
11N20MIMO	Ant2	Low	5745	5700~5720	-29.83	≤10.06	PASS
11N20MIMO	Ant2	Low	5745	5650~5700	-31.77	≤-25.76	PASS
11N20MIMO	Ant2	Low	5745	5760~5650	-32.13	≤-27	PASS
11N20MIMO	Ant1	High	5825	5850~5855	-30.54	≤17.26	PASS
11N20MIMO	Ant1	High	5825	5855~5875	-31.06	≤11.42	PASS
11N20MIMO	Ant1	High	5825	5875~5925	-31.57	≤-26.81	PASS
11N20MIMO	Ant1	High	5825	5925~5935	-31	≤-27	PASS
11N20MIMO	Ant2	High	5825	5850~5855	-32.95	≤15.73	PASS
11N20MIMO	Ant2	High	5825	5855~5875	-31.87	≤10.29	PASS
11N20MIMO	Ant2	High	5825	5875~5925	-30.2	≤-25.51	PASS
11N20MIMO	Ant2	High	5825	5925~5935	-31.45	≤-27	PASS
11N40MIMO	Ant1	Low	5755	5720~5725	-24.16	≤18.20	PASS
11N40MIMO	Ant1	Low	5755	5700~5720	-30.24	≤11.04	PASS
11N40MIMO	Ant1	Low	5755	5650~5700	-31.44	≤-26.40	PASS
11N40MIMO	Ant1	Low	5755	5780~5650	-31.65	≤-27	PASS
11N40MIMO	Ant2	Low	5755	5720~5725	-35.9	≤18.51	PASS
11N40MIMO	Ant2	Low	5755	5700~5720	-40.39	≤10.55	PASS
11N40MIMO	Ant2	Low	5755	5650~5700	-40.71	≤-25.71	PASS
11N40MIMO	Ant2	Low	5755	5780~5650	-40.76	≤-27	PASS
11N40MIMO	Ant1	High	5795	5850~5855	-31.68	≤16.41	PASS
11N40MIMO	Ant1	High	5795	5855~5875	-30.92	≤10.57	PASS
11N40MIMO	Ant1	High	5795	5875~5925	-31.08	≤-26.10	PASS
11N40MIMO	Ant1	High	5795	5925~5935	-30.79	≤-27	PASS
11N40MIMO	Ant2	High	5795	5850~5855	-32.59	≤15.66	PASS
11N40MIMO	Ant2	High	5795	5855~5875	-31.41	≤10.02	PASS
11N40MIMO	Ant2	High	5795	5875~5925	-32.21	≤-26.59	PASS
11N40MIMO	Ant2	High	5795	5925~5935	-30.63	≤-27	PASS
11AC20MIMO	Ant1	Low	5745	5720~5725	-28.64	≤19.75	PASS
11AC20MIMO	Ant1	Low	5745	5700~5720	-30.21	≤11.63	PASS
11AC20MIMO	Ant1	Low	5745	5650~5700	-31.63	≤-26.87	PASS
11AC20MIMO	Ant1	Low	5745	5760~5650	-30.22	≤-27	PASS

11AC20MIMO	Ant2	Low	5745	5720~5725	-30.23	≤17.39	PASS
11AC20MIMO	Ant2	Low	5745	5700~5720	-30.98	≤10.99	PASS
11AC20MIMO	Ant2	Low	5745	5650~5700	-32.69	≤-26.96	PASS
11AC20MIMO	Ant2	Low	5745	5760~5650	-32.31	≤-27	PASS
11AC20MIMO	Ant1	High	5825	5850~5855	-31.72	≤16.65	PASS
11AC20MIMO	Ant1	High	5825	5855~5875	-31.48	≤10.06	PASS
11AC20MIMO	Ant1	High	5825	5875~5925	-32.76	≤-26.71	PASS
11AC20MIMO	Ant1	High	5825	5925~5935	-30.16	≤-27	PASS
11AC20MIMO	Ant2	High	5825	5850~5855	-31	≤15.73	PASS
11AC20MIMO	Ant2	High	5825	5855~5875	-31.04	≤10.59	PASS
11AC20MIMO	Ant2	High	5825	5875~5925	-32.35	≤-26.61	PASS
11AC20MIMO	Ant2	High	5825	5925~5935	-30.81	≤-27	PASS
11AC40MIMO	Ant1	Low	5755	5720~5725	-28.08	≤15.74	PASS
11AC40MIMO	Ant1	Low	5755	5700~5720	-23.53	≤15.39	PASS
11AC40MIMO	Ant1	Low	5755	5650~5700	-32.25	≤-26.50	PASS
11AC40MIMO	Ant1	Low	5755	5780~5650	-30.53	≤-27	PASS
11AC40MIMO	Ant2	Low	5755	5720~5725	-29.87	≤16.35	PASS
11AC40MIMO	Ant2	Low	5755	5700~5720	-29.94	≤10.55	PASS
11AC40MIMO	Ant2	Low	5755	5650~5700	-32.39	≤-26.80	PASS
11AC40MIMO	Ant2	Low	5755	5780~5650	-32.22	≤-27	PASS
11AC40MIMO	Ant1	High	5795	5850~5855	-33.02	≤15.66	PASS
11AC40MIMO	Ant1	High	5795	5855~5875	-29.41	≤10.94	PASS
11AC40MIMO	Ant1	High	5795	5875~5925	-32.05	≤-26.83	PASS
11AC40MIMO	Ant1	High	5795	5925~5935	-30.66	≤-27	PASS
11AC40MIMO	Ant2	High	5795	5850~5855	-31.62	≤17.54	PASS
11AC40MIMO	Ant2	High	5795	5855~5875	-31.2	≤10.85	PASS
11AC40MIMO	Ant2	High	5795	5875~5925	-32.2	≤-26.83	PASS
11AC40MIMO	Ant2	High	5795	5925~5935	-30.04	≤-27	PASS
11AC80MIMO	Ant1	Low	5775	5720~5725	-30.79	≤16.00	PASS
11AC80MIMO	Ant1	Low	5775	5700~5720	-30.1	≤10.53	PASS
11AC80MIMO	Ant1	Low	5775	5650~5700	-30.94	≤-24.97	PASS
11AC80MIMO	Ant1	Low	5775	5800~5650	-31.82	≤-27	PASS
11AC80MIMO	Ant1	High	5775	5850~5855	-33.29	≤15.84	PASS
11AC80MIMO	Ant1	High	5775	5855~5875	-31.43	≤10.35	PASS
11AC80MIMO	Ant1	High	5775	5875~5925	-32.5	≤-26.73	PASS
11AC80MIMO	Ant1	High	5775	5925~5935	-30.89	≤-27	PASS
11AC80MIMO	Ant2	Low	5775	5720~5725	-28.99	≤15.65	PASS
11AC80MIMO	Ant2	Low	5775	5700~5720	-30.37	≤10.74	PASS
11AC80MIMO	Ant2	Low	5775	5650~5700	-32.33	≤-26.57	PASS
11AC80MIMO	Ant2	Low	5775	5800~5650	-31.71	≤-27	PASS
11AC80MIMO	Ant2	High	5775	5850~5855	-32.34	≤16.68	PASS
11AC80MIMO	Ant2	High	5775	5855~5875	-31.82	≤10.19	PASS
11AC80MIMO	Ant2	High	5775	5875~5925	-32.73	≤-26.60	PASS
11AC80MIMO	Ant2	High	5775	5925~5935	-31.23	≤-27	PASS

Test Graphs B4

11A-Ant1-5745-PASS

11A-Ant2-5745-PASS

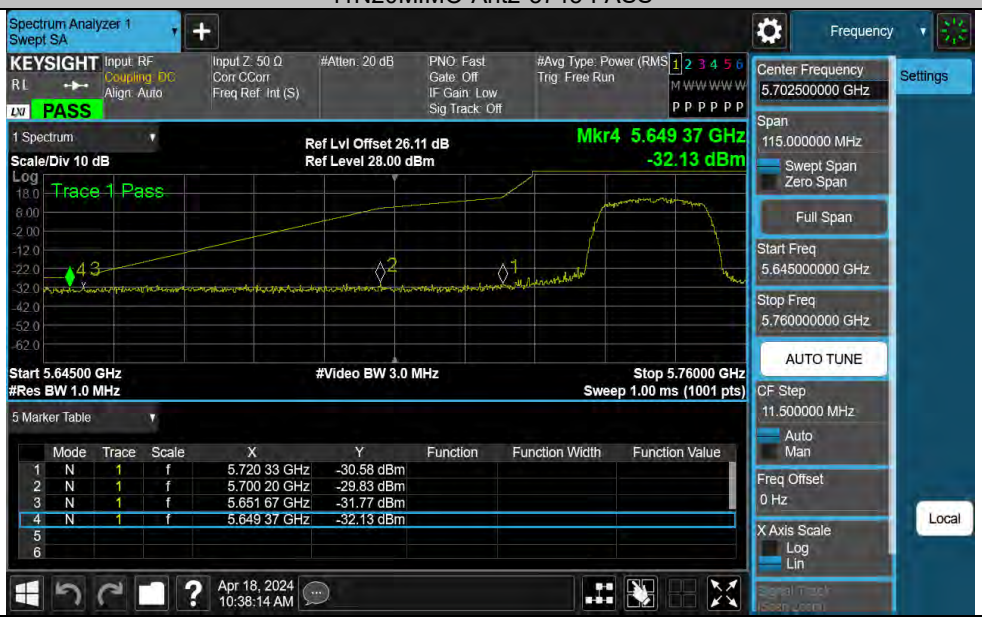


11A-Ant1-5825-PASS

11A-Ant2-5825-PASS

11N20MIMO-Ant1-5745-PASS

11N20MIMO-Ant2-5745-PASS



11N20MIMO-Ant1-5825-PASS

11N20MIMO-Ant2-5825-PASS

11N40MIMO-Ant1-5755-PASS

11N40MIMO-Ant2-5755-PASS

11N40MIMO-Ant1-5795-PASS

11N40MIMO-Ant2-5795-PASS

11AC20MIMO-Ant1-5745-PASS

11AC20MIMO-Ant2-5745-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-Ant1-5775-PASS

11AC80MIMO-Ant2-5775-PASS

11AC80MIMO-Ant2-5775-PASS

Appendix G: Frequency Stability
Test Result

Test Mode	Antenna	Frequency[MHz]	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-40000.00	-7.722008	20	PASS
11A	Ant1	5180	LV	NT	-40000.00	-7.722008	20	PASS
11A	Ant1	5180	HV	NT	-40000.00	-7.722008	20	PASS
11A	Ant1	5260	NV	NT	-40000.00	-7.604563	20	PASS
11A	Ant1	5260	LV	NT	-40000.00	-7.604563	20	PASS
11A	Ant1	5260	HV	NT	-40000.00	-7.604563	20	PASS
11A	Ant1	5500	NV	NT	-40000.00	-7.272727	20	PASS
11A	Ant1	5500	LV	NT	-40000.00	-7.272727	20	PASS
11A	Ant1	5500	HV	NT	-40000.00	-7.272727	20	PASS
11A	Ant1	5745	NV	NT	-40000.00	-6.962576	20	PASS
11A	Ant1	5745	LV	NT	-40000.00	-6.962576	20	PASS
11A	Ant1	5745	HV	NT	-40000.00	-6.962576	20	PASS

Test Mode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	-40000.00	-7.722008	20	PASS
11A	Ant1	5180	NV	-20	-40000.00	-7.722008	20	PASS
11A	Ant1	5180	NV	-10	-40000.00	-7.722008	20	PASS
11A	Ant1	5180	NV	0	-40000.00	-7.722008	20	PASS
11A	Ant1	5180	NV	10	-40000.00	-7.722008	20	PASS
11A	Ant1	5180	NV	20	-40000.00	-7.722008	20	PASS
11A	Ant1	5180	NV	30	-40000.00	-7.722008	20	PASS
11A	Ant1	5180	NV	40	-40000.00	-7.722008	20	PASS
11A	Ant1	5180	NV	50	-40000.00	-7.722008	20	PASS
11A	Ant1	5260	NV	-30	-40000.00	-7.604563	20	PASS
11A	Ant1	5260	NV	-20	-40000.00	-7.604563	20	PASS
11A	Ant1	5260	NV	-10	-40000.00	-7.604563	20	PASS
11A	Ant1	5260	NV	0	-40000.00	-7.604563	20	PASS
11A	Ant1	5260	NV	10	-40000.00	-7.604563	20	PASS
11A	Ant1	5260	NV	20	-40000.00	-7.604563	20	PASS
11A	Ant1	5260	NV	30	-40000.00	-7.604563	20	PASS
11A	Ant1	5260	NV	40	-40000.00	-7.604563	20	PASS
11A	Ant1	5260	NV	50	-40000.00	-7.604563	20	PASS
11A	Ant1	5500	NV	-30	-60000.00	-10.909091	20	PASS
11A	Ant1	5500	NV	-20	-60000.00	-10.909091	20	PASS
11A	Ant1	5500	NV	-10	-40000.00	-7.272727	20	PASS
11A	Ant1	5500	NV	0	-40000.00	-7.272727	20	PASS
11A	Ant1	5500	NV	10	-40000.00	-7.272727	20	PASS
11A	Ant1	5500	NV	20	-60000.00	-10.909091	20	PASS
11A	Ant1	5500	NV	30	-40000.00	-7.272727	20	PASS
11A	Ant1	5500	NV	40	-40000.00	-7.272727	20	PASS
11A	Ant1	5500	NV	50	-60000.00	-10.909091	20	PASS
11A	Ant1	5745	NV	-30	-40000.00	-6.962576	20	PASS
11A	Ant1	5745	NV	-20	-60000.00	-10.443864	20	PASS
11A	Ant1	5745	NV	-10	-40000.00	-6.962576	20	PASS
11A	Ant1	5745	NV	0	-40000.00	-6.962576	20	PASS
11A	Ant1	5745	NV	10	-40000.00	-6.962576	20	PASS
11A	Ant1	5745	NV	20	-40000.00	-6.962576	20	PASS
11A	Ant1	5745	NV	30	-40000.00	-6.962576	20	PASS
11A	Ant1	5745	NV	40	-60000.00	-10.443864	20	PASS
11A	Ant1	5745	NV	50	-60000.00	-10.443864	20	PASS