

Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	6.22	≤11.00	PASS
11A	Ant2	5180	4.62	≤11.00	PASS
11A	Ant1	5200	6.23	≤11.00	PASS
11A	Ant2	5200	4.03	≤11.00	PASS
11A	Ant1	5240	5.45	≤11.00	PASS
11A	Ant2	5240	4.56	≤11.00	PASS
11A	Ant1	5745	2.70	≤30.00	PASS
11A	Ant2	5745	2.62	≤30.00	PASS
11A	Ant1	5785	2.10	≤30.00	PASS
11A	Ant2	5785	2.46	≤30.00	PASS
11A	Ant1	5825	1.58	≤30.00	PASS
11A	Ant2	5825	2.46	≤30.00	PASS
11N20MIMO	Ant1	5180	4.11	≤11.00	PASS
11N20MIMO	Ant2	5180	2.15	≤11.00	PASS
11N20MIMO	total	5180	6.25	≤11.00	PASS
11N20MIMO	Ant1	5200	4.07	≤11.00	PASS
11N20MIMO	Ant2	5200	1.58	≤11.00	PASS
11N20MIMO	total	5200	6.01	≤11.00	PASS
11N20MIMO	Ant1	5240	3.04	≤11.00	PASS
11N20MIMO	Ant2	5240	2.18	≤11.00	PASS
11N20MIMO	total	5240	5.64	≤11.00	PASS
11N20MIMO	Ant1	5745	0.41	≤30.00	PASS
11N20MIMO	Ant2	5745	-0.43	≤30.00	PASS
11N20MIMO	total	5745	3.02	≤30.00	PASS
11N20MIMO	Ant1	5785	-1.04	≤30.00	PASS
11N20MIMO	Ant2	5785	-0.78	≤30.00	PASS
11N20MIMO	total	5785	2.10	≤30.00	PASS
11N20MIMO	Ant1	5825	-1.17	≤30.00	PASS
11N20MIMO	Ant2	5825	-0.89	≤30.00	PASS
11N20MIMO	total	5825	1.98	≤30.00	PASS
11N40MIMO	Ant1	5190	1.06	≤11.00	PASS
11N40MIMO	Ant2	5190	-0.47	≤11.00	PASS
11N40MIMO	total	5190	3.37	≤11.00	PASS
11N40MIMO	Ant1	5230	0.42	≤11.00	PASS
11N40MIMO	Ant2	5230	-0.57	≤11.00	PASS
11N40MIMO	total	5230	2.96	≤11.00	PASS
11N40MIMO	Ant1	5755	-3.28	≤30.00	PASS
11N40MIMO	Ant2	5755	-3.53	≤30.00	PASS
11N40MIMO	total	5755	-0.39	≤30.00	PASS
11N40MIMO	Ant1	5795	-3.91	≤30.00	PASS
11N40MIMO	Ant2	5795	-3.93	≤30.00	PASS
11N40MIMO	total	5795	-0.91	≤30.00	PASS
11AC20MIMO	Ant1	5180	4.25	≤11.00	PASS
11AC20MIMO	Ant2	5180	2.43	≤11.00	PASS
11AC20MIMO	total	5180	6.44	≤11.00	PASS
11AC20MIMO	Ant1	5200	4.06	≤11.00	PASS
11AC20MIMO	Ant2	5200	1.79	≤11.00	PASS
11AC20MIMO	total	5200	6.08	≤11.00	PASS
11AC20MIMO	Ant1	5240	3.07	≤11.00	PASS
11AC20MIMO	Ant2	5240	2.33	≤11.00	PASS
11AC20MIMO	total	5240	5.73	≤11.00	PASS
11AC20MIMO	Ant1	5745	-0.30	≤30.00	PASS

11AC20MIMO	Ant2	5745	-0.67	≤30.00	PASS
11AC20MIMO	total	5745	2.53	≤30.00	PASS
11AC20MIMO	Ant1	5785	-1.25	≤30.00	PASS
11AC20MIMO	Ant2	5785	-1.00	≤30.00	PASS
11AC20MIMO	total	5785	1.89	≤30.00	PASS
11AC20MIMO	Ant1	5825	-1.47	≤30.00	PASS
11AC20MIMO	Ant2	5825	-1.00	≤30.00	PASS
11AC20MIMO	total	5825	1.78	≤30.00	PASS
11AC40MIMO	Ant1	5190	1.27	≤11.00	PASS
11AC40MIMO	Ant2	5190	-0.35	≤11.00	PASS
11AC40MIMO	total	5190	3.55	≤11.00	PASS
11AC40MIMO	Ant1	5230	0.82	≤11.00	PASS
11AC40MIMO	Ant2	5230	-0.48	≤11.00	PASS
11AC40MIMO	total	5230	3.23	≤11.00	PASS
11AC40MIMO	Ant1	5755	-3.31	≤30.00	PASS
11AC40MIMO	Ant2	5755	-3.61	≤30.00	PASS
11AC40MIMO	total	5755	-0.45	≤30.00	PASS
11AC40MIMO	Ant1	5795	-4.19	≤30.00	PASS
11AC40MIMO	Ant2	5795	-3.99	≤30.00	PASS
11AC40MIMO	total	5795	-1.08	≤30.00	PASS
11AC80MIMO	Ant1	5210	-1.79	≤11.00	PASS
11AC80MIMO	Ant2	5210	-3.26	≤11.00	PASS
11AC80MIMO	total	5210	0.55	≤11.00	PASS
11AC80MIMO	Ant1	5775	-6.67	≤30.00	PASS
11AC80MIMO	Ant2	5775	-6.77	≤30.00	PASS
11AC80MIMO	total	5775	-3.71	≤30.00	PASS

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

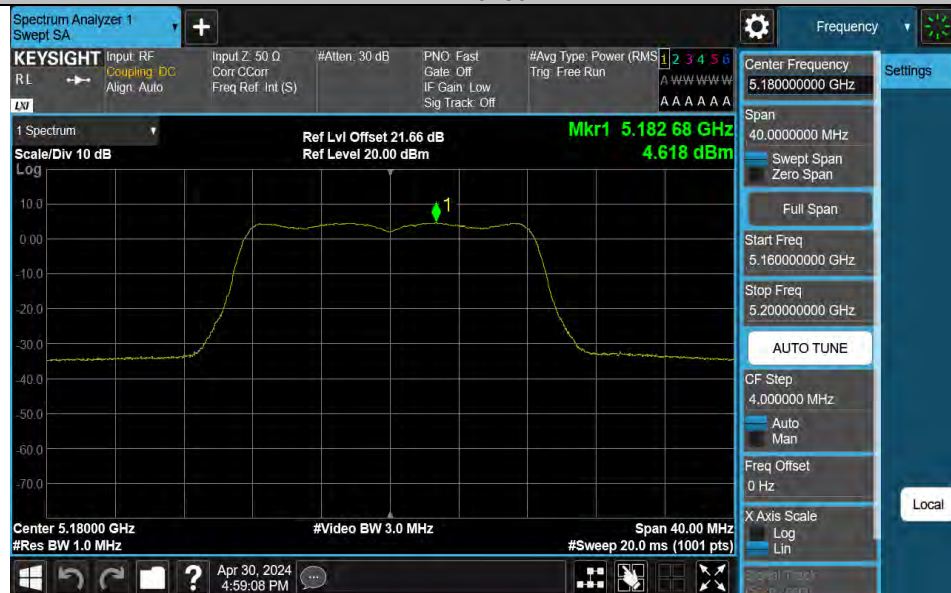
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

11A-Ant1-5180-PASS



11A-Ant2-5180-PASS



11A-Ant1-5200-PASS



11A-Ant2-5200-PASS



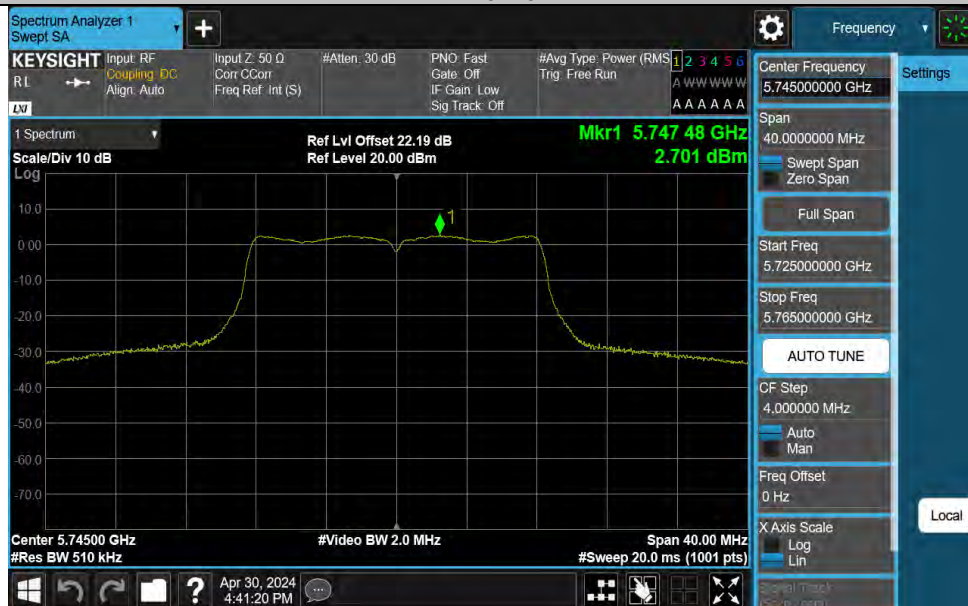
11A-Ant1-5240-PASS



11A-Ant2-5240-PASS



11A-Ant1-5745-PASS



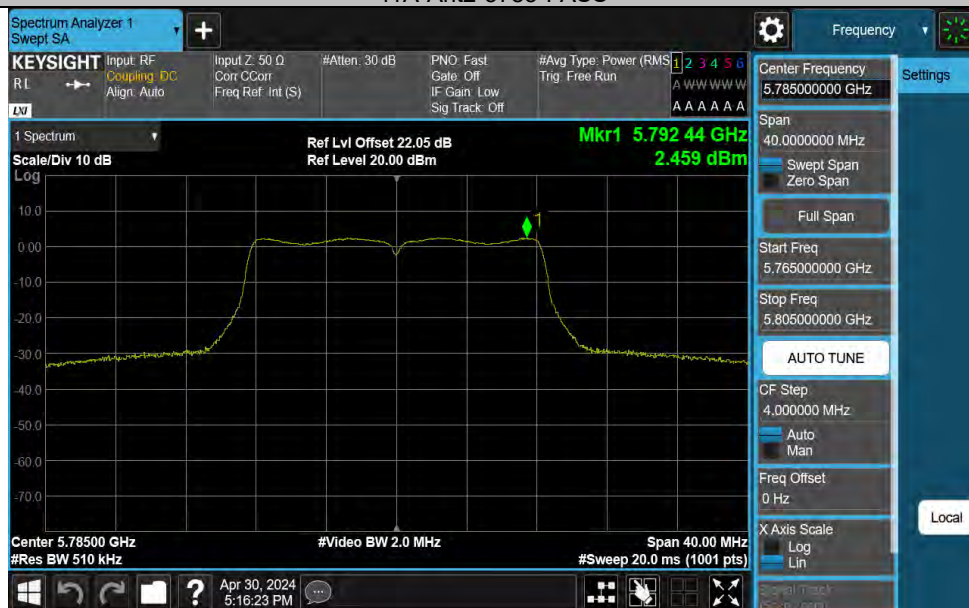
11A-Ant2-5745-PASS



11A-Ant1-5785-PASS



11A-Ant2-5785-PASS



11A-Ant1-5825-PASS



11A-Ant2-5825-PASS



11N20MIMO-Ant1-5180-PASS



11N20MIMO-Ant2-5180-PASS



11N20MIMO-Ant1-5200-PASS



11N20MIMO-Ant2-5200-PASS



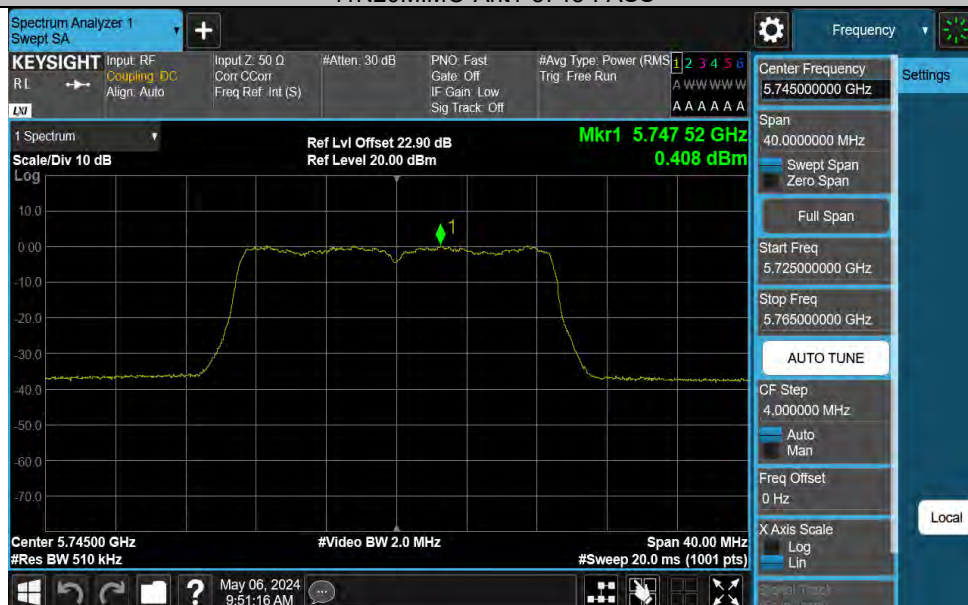
11N20MIMO-Ant1-5240-PASS



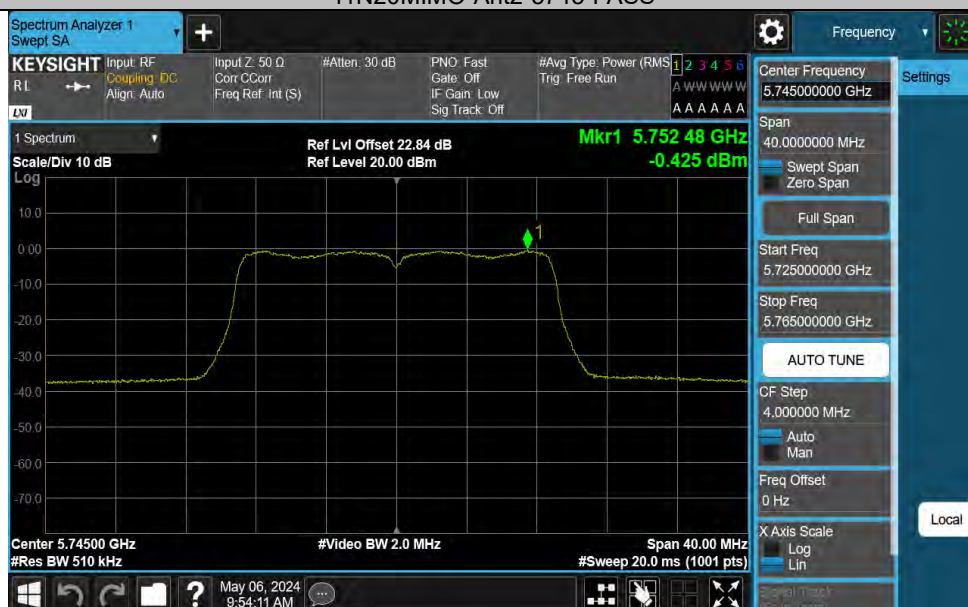
11N20MIMO-Ant2-5240-PASS



11N20MIMO-Ant1-5745-PASS



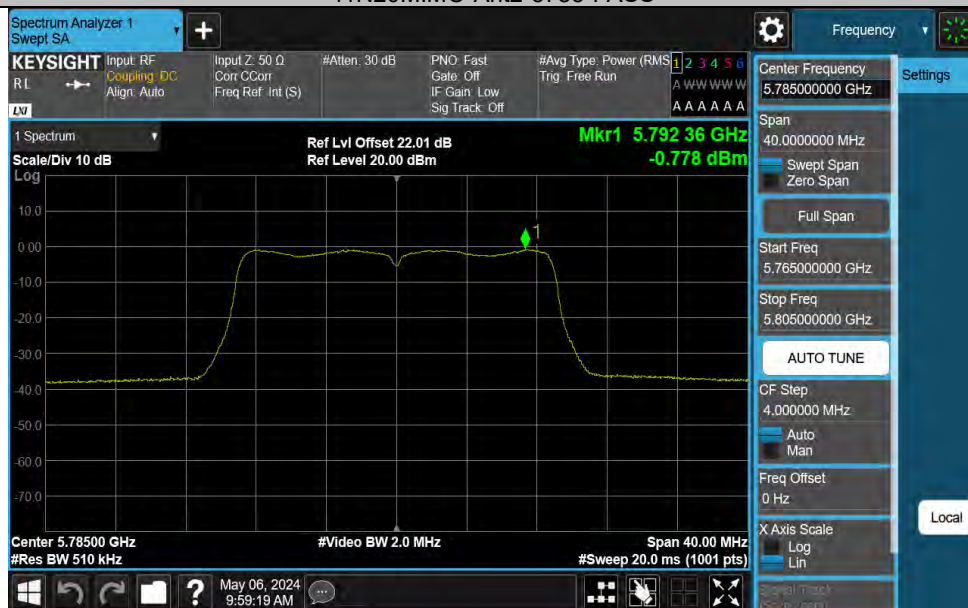
11N20MIMO-Ant2-5745-PASS



11N20MIMO-Ant1-5785-PASS



11N20MIMO-Ant2-5785-PASS



11N20MIMO-Ant1-5825-PASS



11N20MIMO-Ant2-5825-PASS



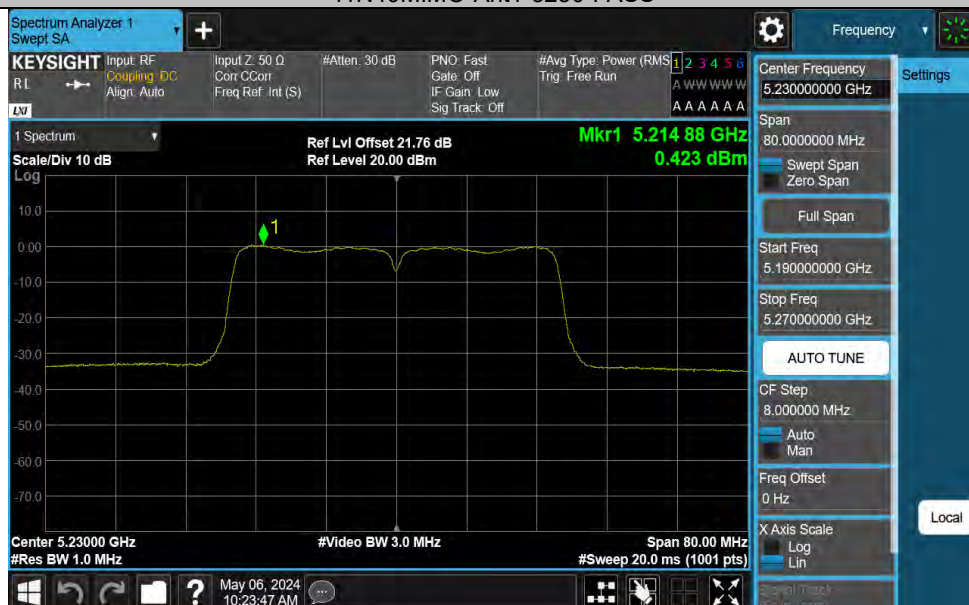
11N40MIMO-Ant1-5190-PASS



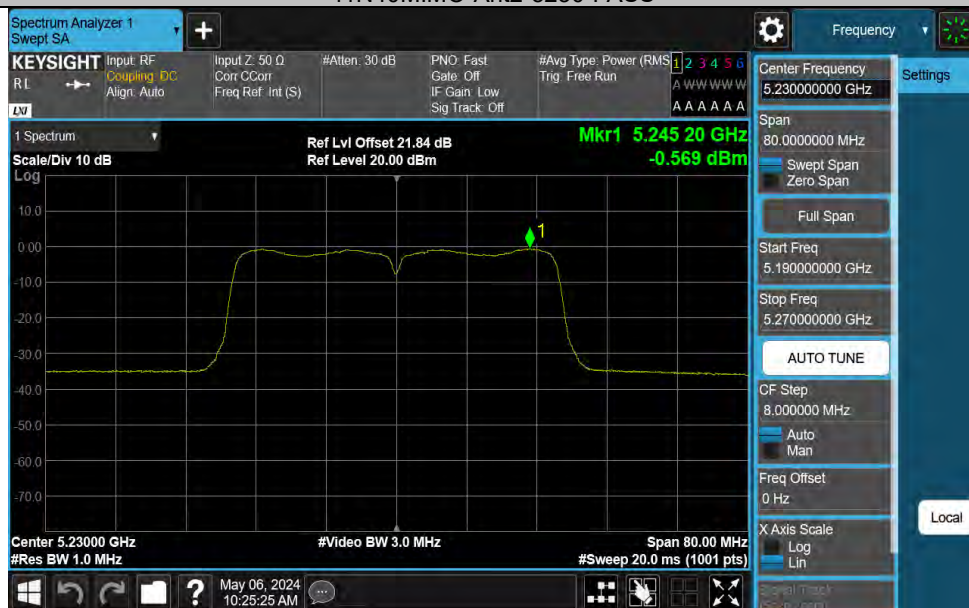
11N40MIMO-Ant2-5190-PASS



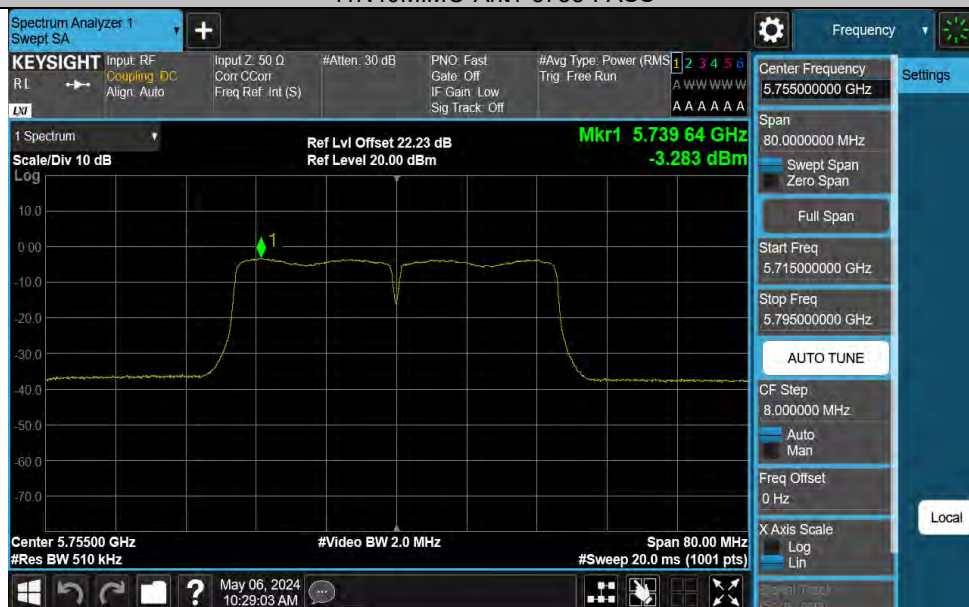
11N40MIMO-Ant1-5230-PASS



11N40MIMO-Ant2-5230-PASS



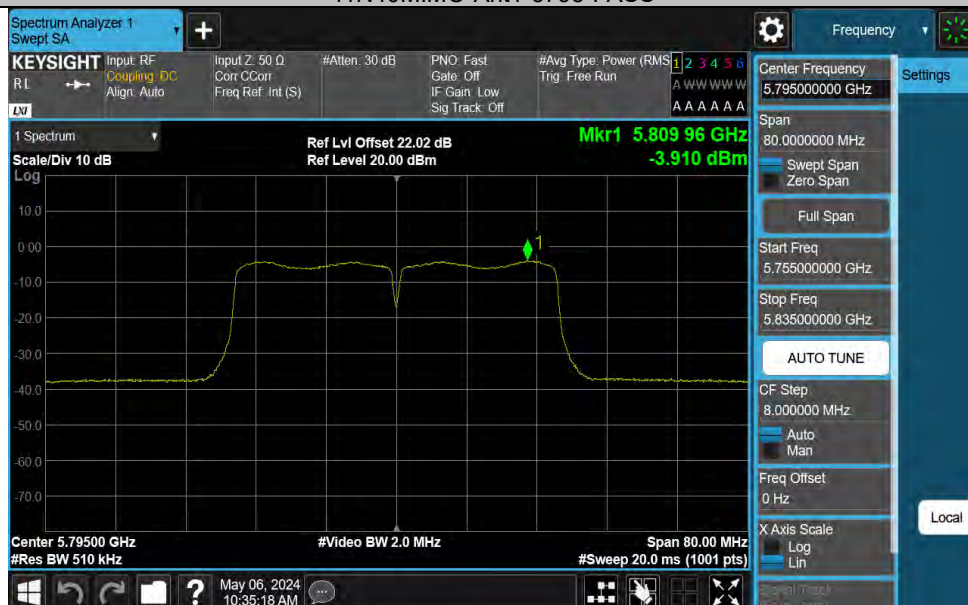
11N40MIMO-Ant1-5755-PASS



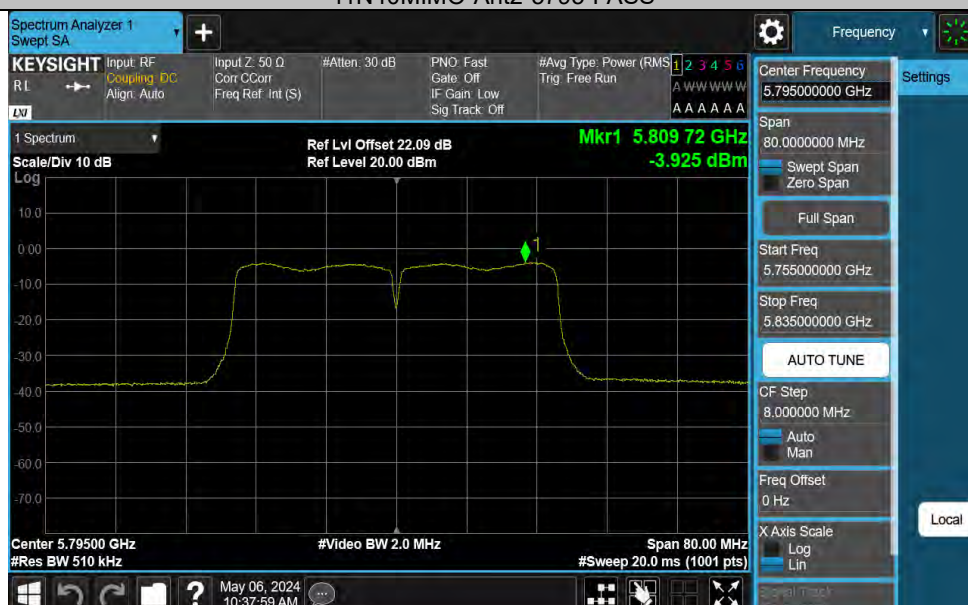
11N40MIMO-Ant2-5755-PASS



11N40MIMO-Ant1-5795-PASS



11N40MIMO-Ant2-5795-PASS



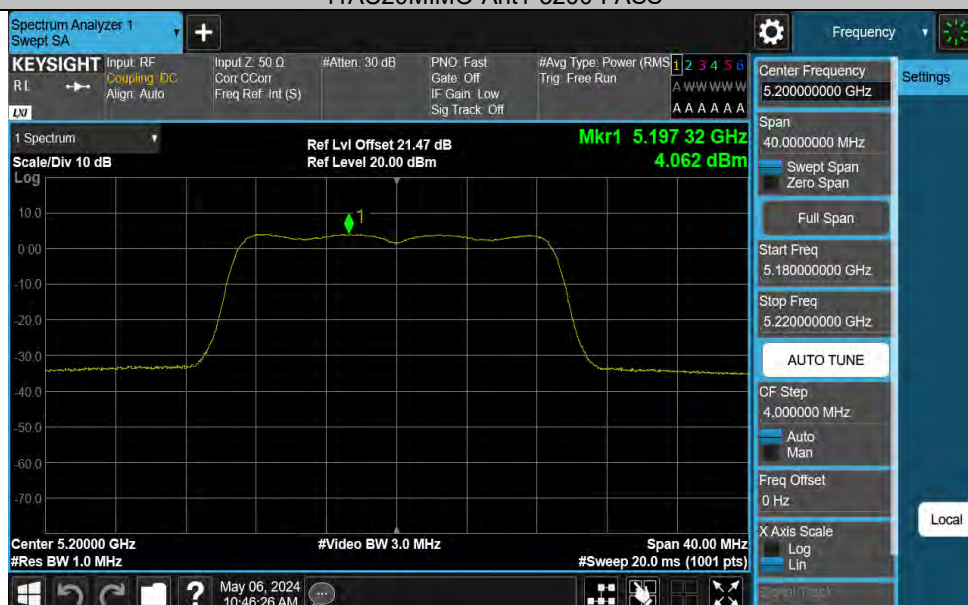
11AC20MIMO-Ant1-5180-PASS



11AC20MIMO-Ant2-5180-PASS



11AC20MIMO-Ant1-5200-PASS



11AC20MIMO-Ant2-5200-PASS



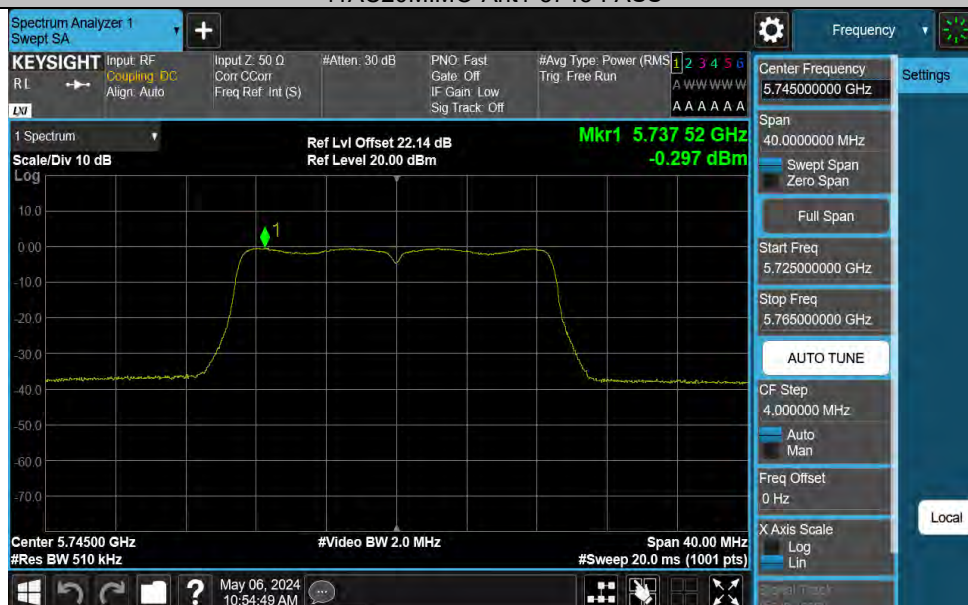
11AC20MIMO-Ant1-5240-PASS



11AC20MIMO-Ant2-5240-PASS



11AC20MIMO-Ant1-5745-PASS



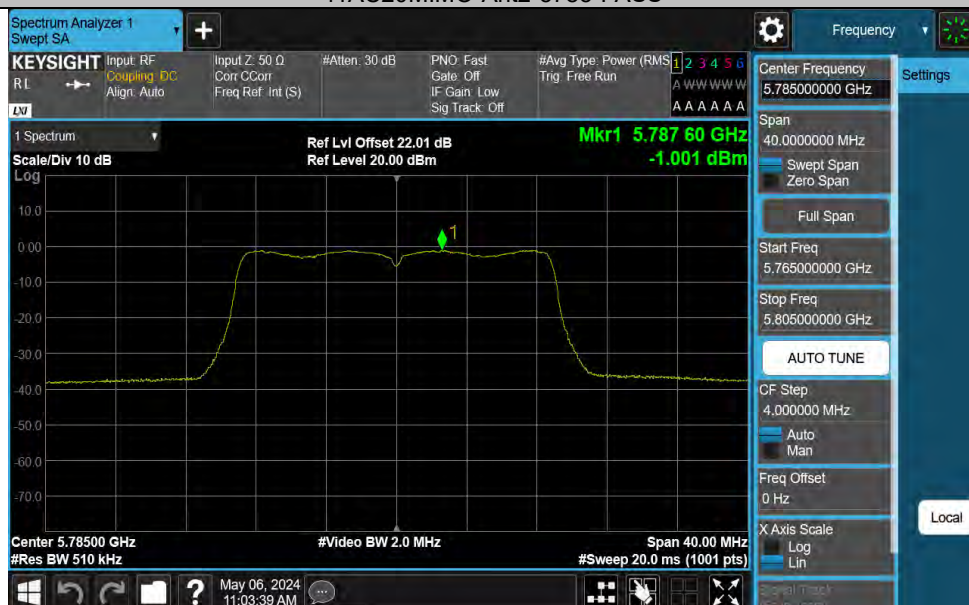
11AC20MIMO-Ant2-5745-PASS



11AC20MIMO-Ant1-5785-PASS



11AC20MIMO-Ant2-5785-PASS



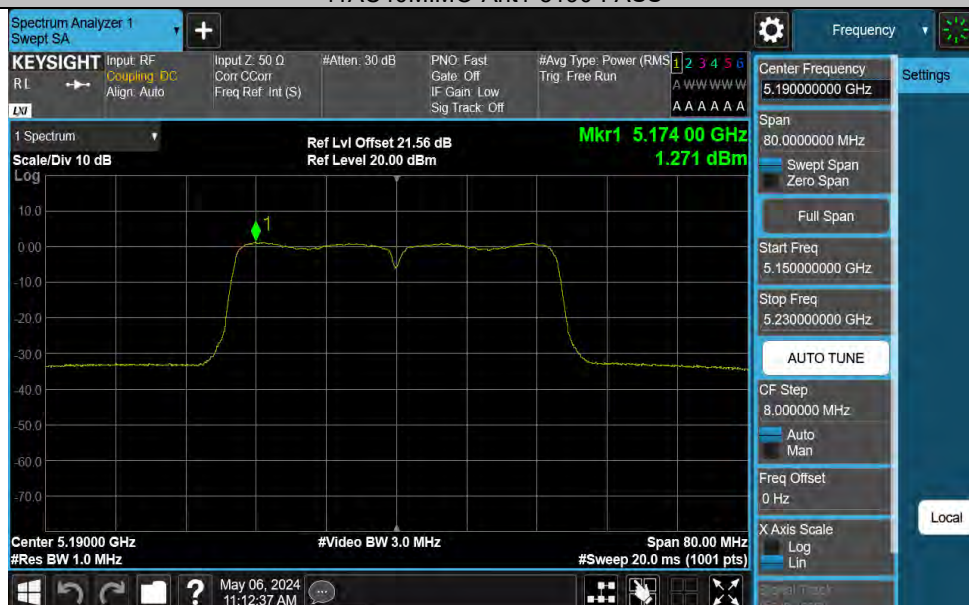
11AC20MIMO-Ant1-5825-PASS



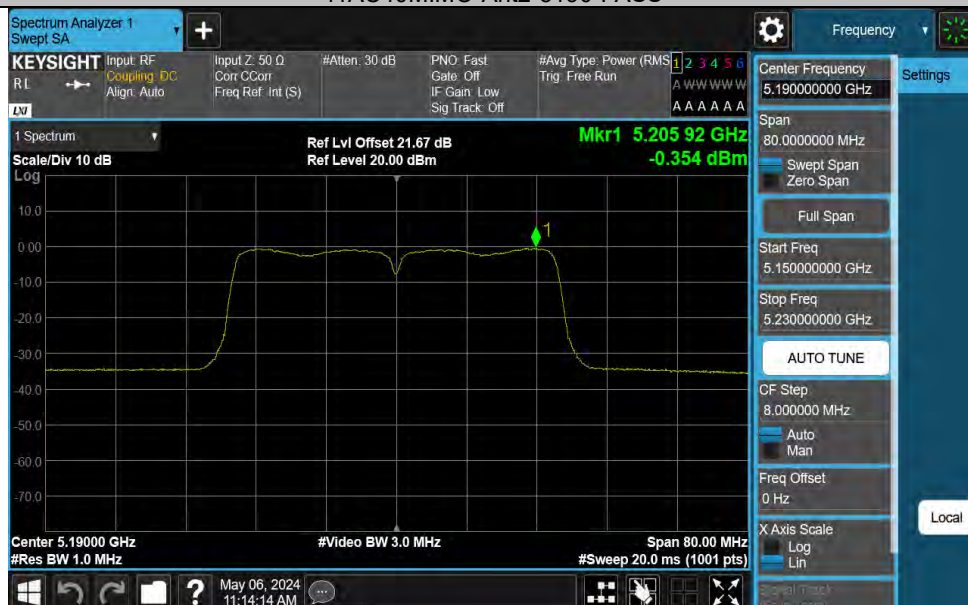
11AC20MIMO-Ant2-5825-PASS



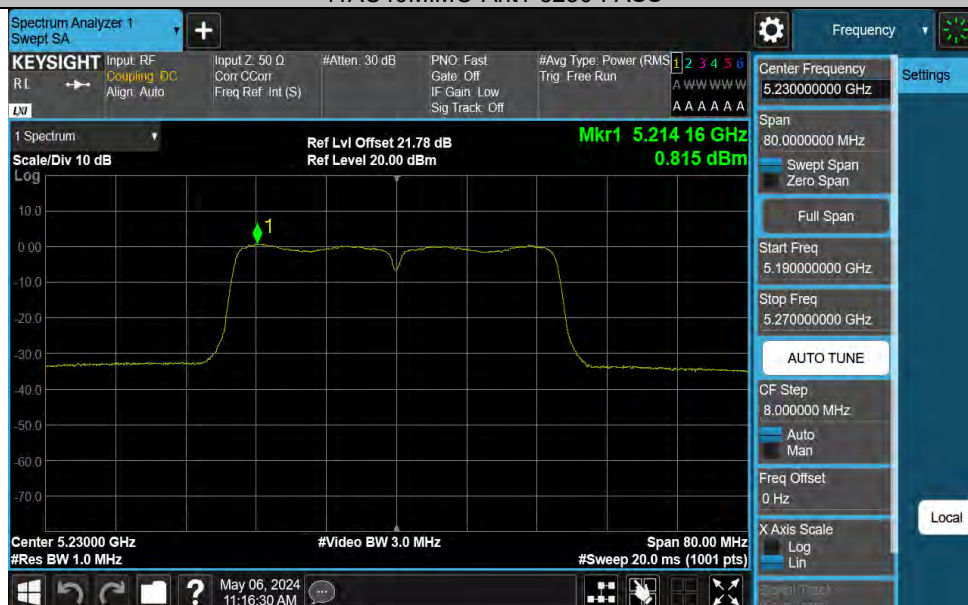
11AC40MIMO-Ant1-5190-PASS



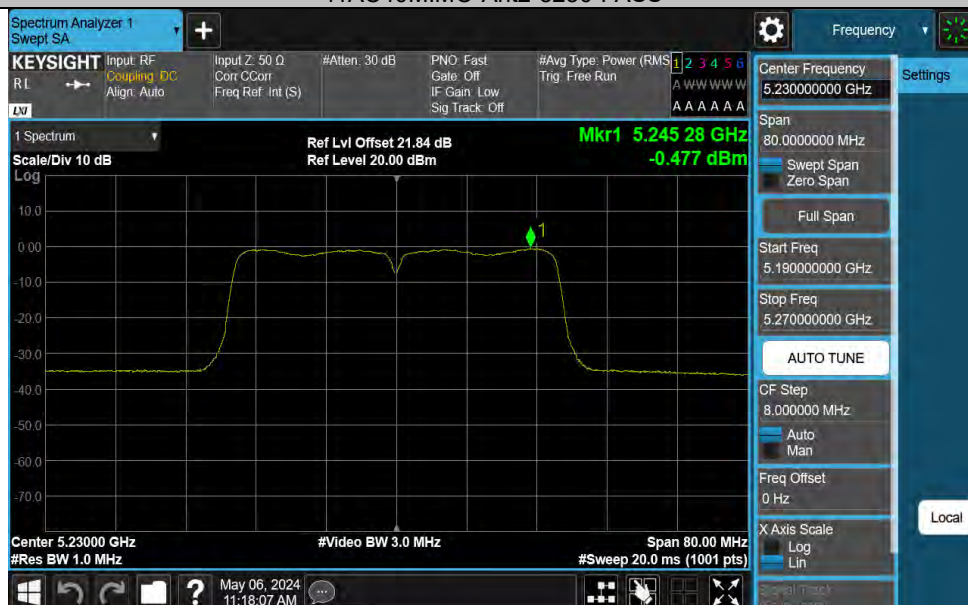
11AC40MIMO-Ant2-5190-PASS



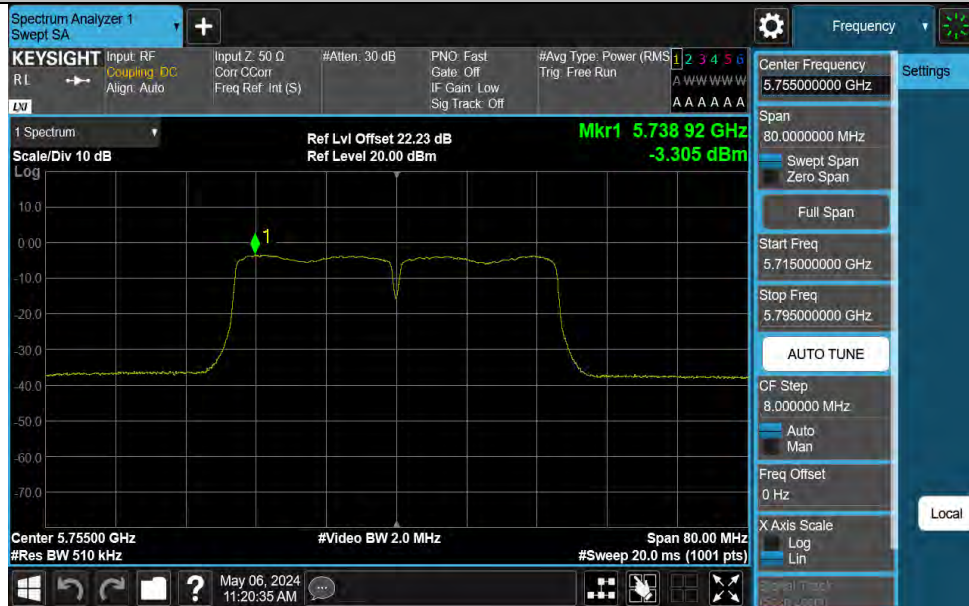
11AC40MIMO-Ant1-5230-PASS



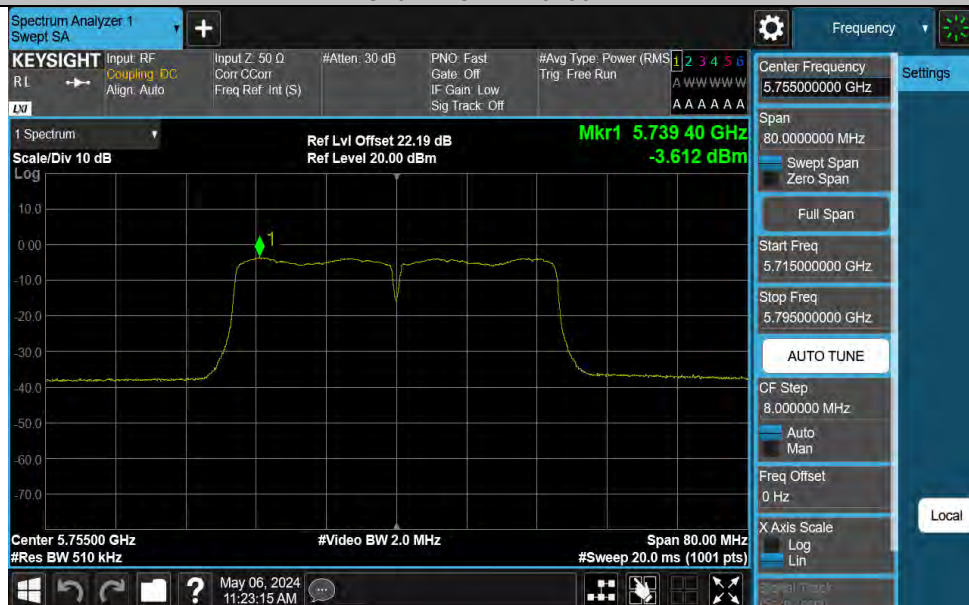
11AC40MIMO-Ant2-5230-PASS



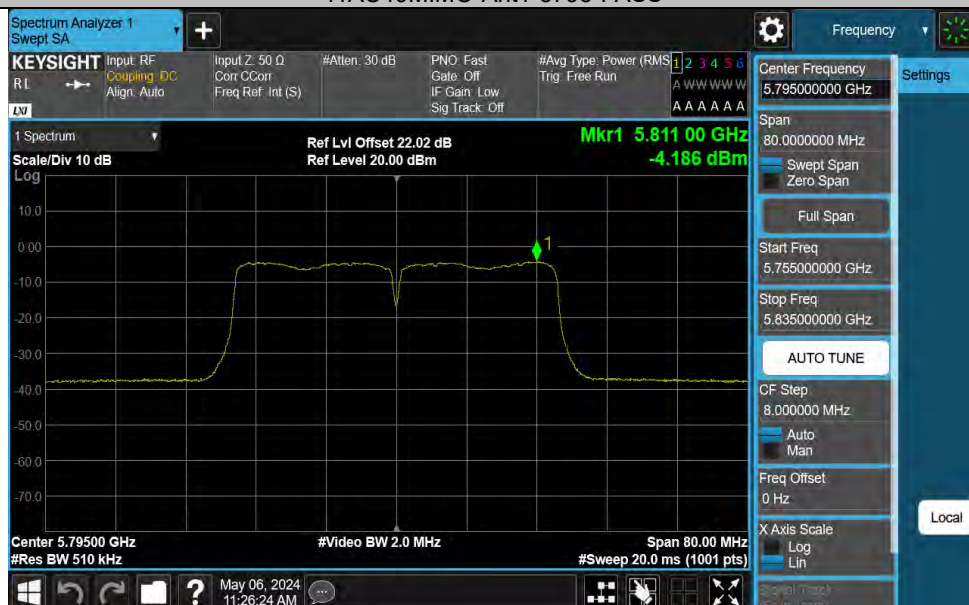
11AC40MIMO-Ant1-5755-PASS



11AC40MIMO-Ant2-5755-PASS



11AC40MIMO-Ant1-5795-PASS



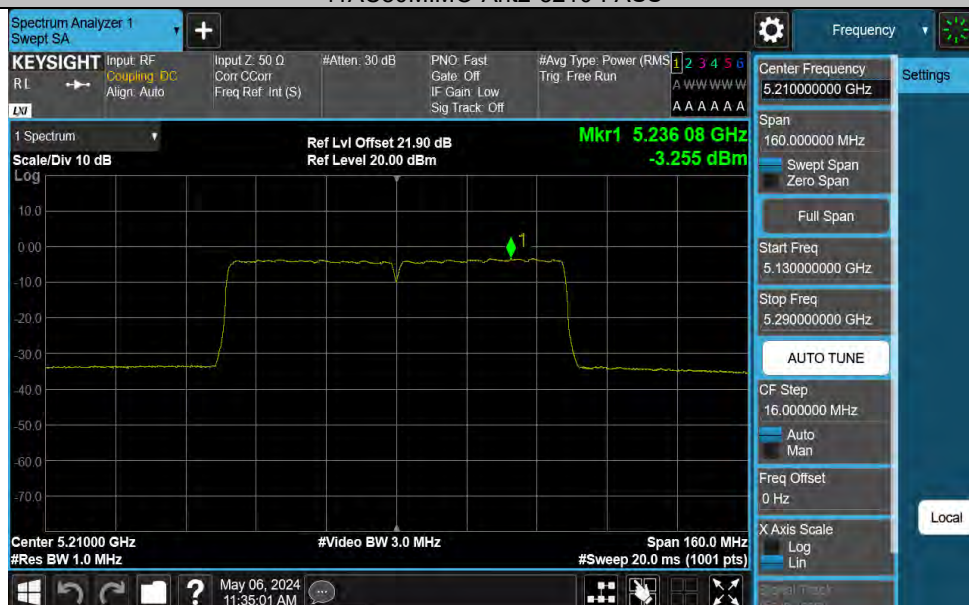
11AC40MIMO-Ant2-5795-PASS



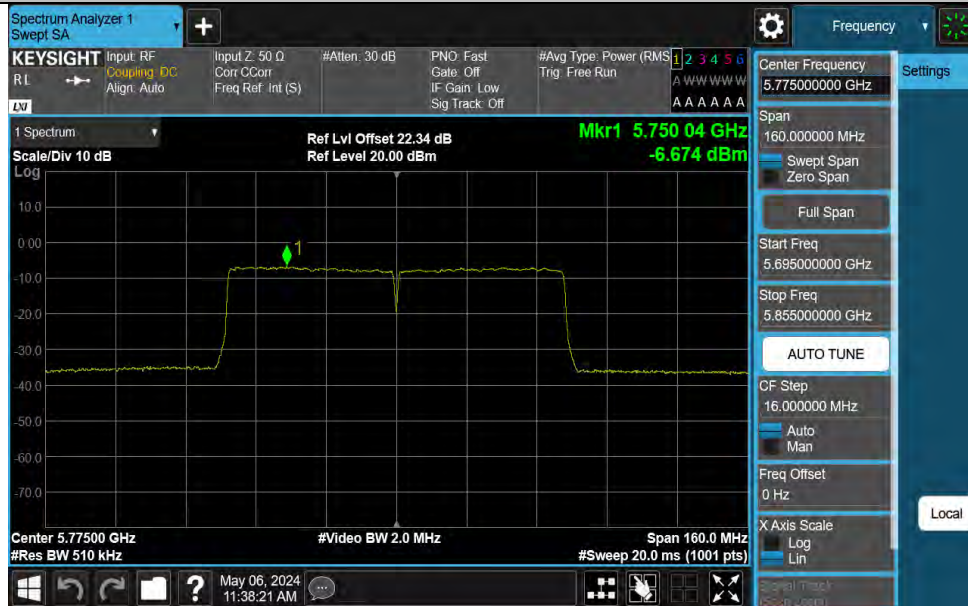
11AC80MIMO-Ant1-5210-PASS



11AC80MIMO-Ant2-5210-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	-12.86	≤22.90	PASS
11A	Ant1	Low	5745	5700~5720	-23.84	≤14.05	PASS
11A	Ant1	Low	5745	5650~5700	-33.48	≤-26.45	PASS
11A	Ant1	Low	5745	5760~5650	-33.6	≤-27	PASS
11A	Ant2	Low	5745	5720~5725	-17.25	≤16.60	PASS
11A	Ant2	Low	5745	5700~5720	-19.48	≤15.43	PASS
11A	Ant2	Low	5745	5650~5700	-34.12	≤-26.36	PASS
11A	Ant2	Low	5745	5760~5650	-33.26	≤-27	PASS
11A	Ant1	High	5825	5850~5855	-21.58	≤15.73	PASS
11A	Ant1	High	5825	5855~5875	-21.66	≤14.41	PASS
11A	Ant1	High	5825	5875~5925	-33.28	≤-26.91	PASS
11A	Ant1	High	5825	5925~5935	-31.49	≤-27	PASS
11A	Ant2	High	5825	5850~5855	-17.67	≤16.96	PASS
11A	Ant2	High	5825	5855~5875	-16.65	≤15.28	PASS
11A	Ant2	High	5825	5875~5925	-32.15	≤-25.81	PASS
11A	Ant2	High	5825	5925~5935	-31.89	≤-27	PASS
11N20MIMO	Ant1	Low	5745	5720~5725	-24.17	≤18.44	PASS
11N20MIMO	Ant1	Low	5745	5700~5720	-27.08	≤14.27	PASS
11N20MIMO	Ant1	Low	5745	5650~5700	-33.29	≤-26.87	PASS
11N20MIMO	Ant1	Low	5745	5760~5650	-34.09	≤-27	PASS
11N20MIMO	Ant2	Low	5745	5720~5725	-24.06	≤17.13	PASS
11N20MIMO	Ant2	Low	5745	5700~5720	-26.67	≤14.85	PASS
11N20MIMO	Ant2	Low	5745	5650~5700	-32.96	≤-26.10	PASS
11N20MIMO	Ant2	Low	5745	5760~5650	-32.73	≤-27	PASS
11N20MIMO	Ant1	High	5825	5850~5855	-22.71	≤17.26	PASS
11N20MIMO	Ant1	High	5825	5855~5875	-24.4	≤15.50	PASS
11N20MIMO	Ant1	High	5825	5875~5925	-34.27	≤-26.81	PASS
11N20MIMO	Ant1	High	5825	5925~5935	-33.02	≤-27	PASS
11N20MIMO	Ant2	High	5825	5850~5855	-20.18	≤18.19	PASS
11N20MIMO	Ant2	High	5825	5855~5875	-26.7	≤11.42	PASS
11N20MIMO	Ant2	High	5825	5875~5925	-33.3	≤-26.11	PASS
11N20MIMO	Ant2	High	5825	5925~5935	-30.85	≤-27	PASS
11N40MIMO	Ant1	Low	5755	5720~5725	-21.42	≤16.35	PASS
11N40MIMO	Ant1	Low	5755	5700~5720	-19.62	≤13.73	PASS
11N40MIMO	Ant1	Low	5755	5650~5700	-33.88	≤-26.10	PASS
11N40MIMO	Ant1	Low	5755	5780~5650	-32.91	≤-27	PASS
11N40MIMO	Ant2	Low	5755	5720~5725	-36.28	≤15.74	PASS
11N40MIMO	Ant2	Low	5755	5700~5720	-40.68	≤10.85	PASS
11N40MIMO	Ant2	Low	5755	5650~5700	-42.76	≤-25.90	PASS
11N40MIMO	Ant2	Low	5755	5780~5650	-42.85	≤-27	PASS
11N40MIMO	Ant1	High	5795	5850~5855	-28.99	≤16.79	PASS
11N40MIMO	Ant1	High	5795	5855~5875	-29.78	≤11.22	PASS
11N40MIMO	Ant1	High	5795	5875~5925	-31.05	≤-25.24	PASS
11N40MIMO	Ant1	High	5795	5925~5935	-32.93	≤-27	PASS
11N40MIMO	Ant2	High	5795	5850~5855	-25.17	≤16.03	PASS
11N40MIMO	Ant2	High	5795	5855~5875	-25.61	≤12.51	PASS
11N40MIMO	Ant2	High	5795	5875~5925	-33.31	≤-26.22	PASS
11N40MIMO	Ant2	High	5795	5925~5935	-32.57	≤-27	PASS
11AC20MIMO	Ant1	Low	5745	5720~5725	-24.59	≤16.34	PASS
11AC20MIMO	Ant1	Low	5745	5700~5720	-29.07	≤10.44	PASS
11AC20MIMO	Ant1	Low	5745	5650~5700	-34.74	≤-26.79	PASS
11AC20MIMO	Ant1	Low	5745	5760~5650	-33.23	≤-27	PASS
11AC20MIMO	Ant2	Low	5745	5720~5725	-33.83	≤15.82	PASS

11AC20MIMO	Ant2	Low	5745	5700~5720	-32.1	≤10.06	PASS
11AC20MIMO	Ant2	Low	5745	5650~5700	-33.46	≤-26.70	PASS
11AC20MIMO	Ant2	Low	5745	5760~5650	-32.99	≤-27	PASS
11AC20MIMO	Ant1	High	5825	5850~5855	-27.6	≤15.73	PASS
11AC20MIMO	Ant1	High	5825	5855~5875	-26.77	≤10.32	PASS
11AC20MIMO	Ant1	High	5825	5875~5925	-32.94	≤-25.61	PASS
11AC20MIMO	Ant1	High	5825	5925~5935	-32.62	≤-27	PASS
11AC20MIMO	Ant2	High	5825	5850~5855	-22.72	≤17.26	PASS
11AC20MIMO	Ant2	High	5825	5855~5875	-19.61	≤15.35	PASS
11AC20MIMO	Ant2	High	5825	5875~5925	-33.19	≤-26.41	PASS
11AC20MIMO	Ant2	High	5825	5925~5935	-31.91	≤-27	PASS
11AC40MIMO	Ant1	Low	5755	5720~5725	-15.4	≤16.04	PASS
11AC40MIMO	Ant1	Low	5755	5700~5720	-22.52	≤12.56	PASS
11AC40MIMO	Ant1	Low	5755	5650~5700	-33	≤-26.60	PASS
11AC40MIMO	Ant1	Low	5755	5780~5650	-32.35	≤-27	PASS
11AC40MIMO	Ant2	Low	5755	5720~5725	-22.65	≤16.04	PASS
11AC40MIMO	Ant2	Low	5755	5700~5720	-19.77	≤14.41	PASS
11AC40MIMO	Ant2	Low	5755	5650~5700	-32.68	≤-26.90	PASS
11AC40MIMO	Ant2	Low	5755	5780~5650	-33.38	≤-27	PASS
11AC40MIMO	Ant1	High	5795	5850~5855	-30.01	≤16.79	PASS
11AC40MIMO	Ant1	High	5795	5855~5875	-27.78	≤13.20	PASS
11AC40MIMO	Ant1	High	5795	5875~5925	-33.23	≤-26.22	PASS
11AC40MIMO	Ant1	High	5795	5925~5935	-31.52	≤-27	PASS
11AC40MIMO	Ant2	High	5795	5850~5855	-28.54	≤16.03	PASS
11AC40MIMO	Ant2	High	5795	5855~5875	-26.67	≤11.73	PASS
11AC40MIMO	Ant2	High	5795	5875~5925	-32.12	≤-25.49	PASS
11AC40MIMO	Ant2	High	5795	5925~5935	-32.02	≤-27	PASS
11AC80MIMO	Ant1	Low	5775	5720~5725	-19.19	≤15.65	PASS
11AC80MIMO	Ant1	Low	5775	5700~5720	-20.57	≤10.35	PASS
11AC80MIMO	Ant1	Low	5775	5650~5700	-30.81	≤-25.65	PASS
11AC80MIMO	Ant1	Low	5775	5800~5650	-29.29	≤-27	PASS
11AC80MIMO	Ant1	High	5775	5850~5855	-24.93	≤15.84	PASS
11AC80MIMO	Ant1	High	5775	5855~5875	-24.47	≤10.71	PASS
11AC80MIMO	Ant1	High	5775	5875~5925	-32.84	≤-26.87	PASS
11AC80MIMO	Ant1	High	5775	5925~5935	-29.87	≤-27	PASS
11AC80MIMO	Ant2	Low	5775	5720~5725	-19.81	≤15.65	PASS
11AC80MIMO	Ant2	Low	5775	5700~5720	-21.47	≤10.01	PASS
11AC80MIMO	Ant2	Low	5775	5650~5700	-33.52	≤-26.57	PASS
11AC80MIMO	Ant2	Low	5775	5800~5650	-33.01	≤-27	PASS
11AC80MIMO	Ant2	High	5775	5850~5855	-24.78	≤15.84	PASS
11AC80MIMO	Ant2	High	5775	5855~5875	-23.61	≤10.04	PASS
11AC80MIMO	Ant2	High	5775	5875~5925	-26.16	≤-24.68	PASS
11AC80MIMO	Ant2	High	5775	5925~5935	-27.54	≤-27	PASS

Test Graphs B4

11A-Ant1-5745-PASS



11A-Ant2-5745-PASS



11A-Ant1-5825-PASS



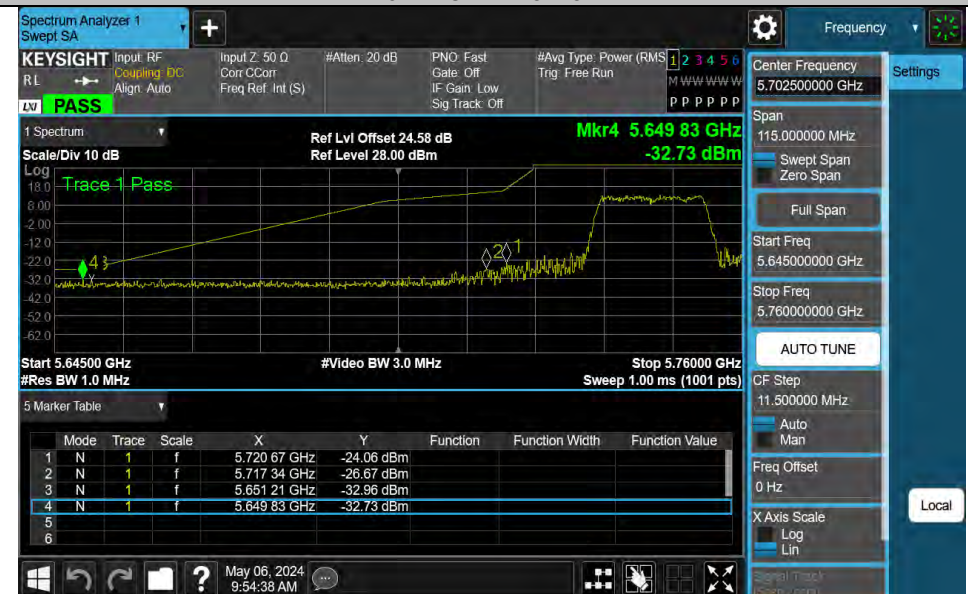
11A-Ant2-5825-PASS



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



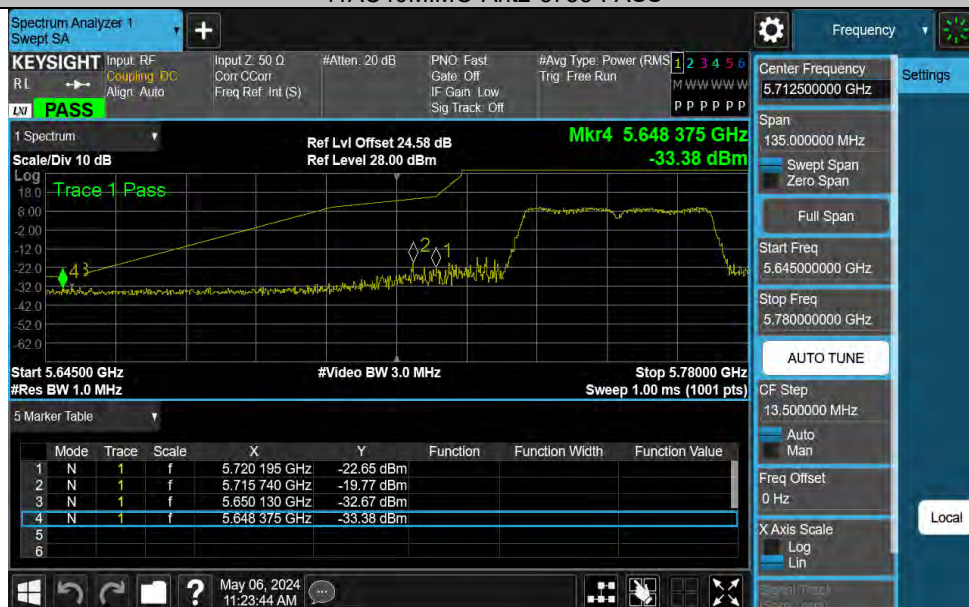
11AC20MIMO-Ant2-5825-PASS



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

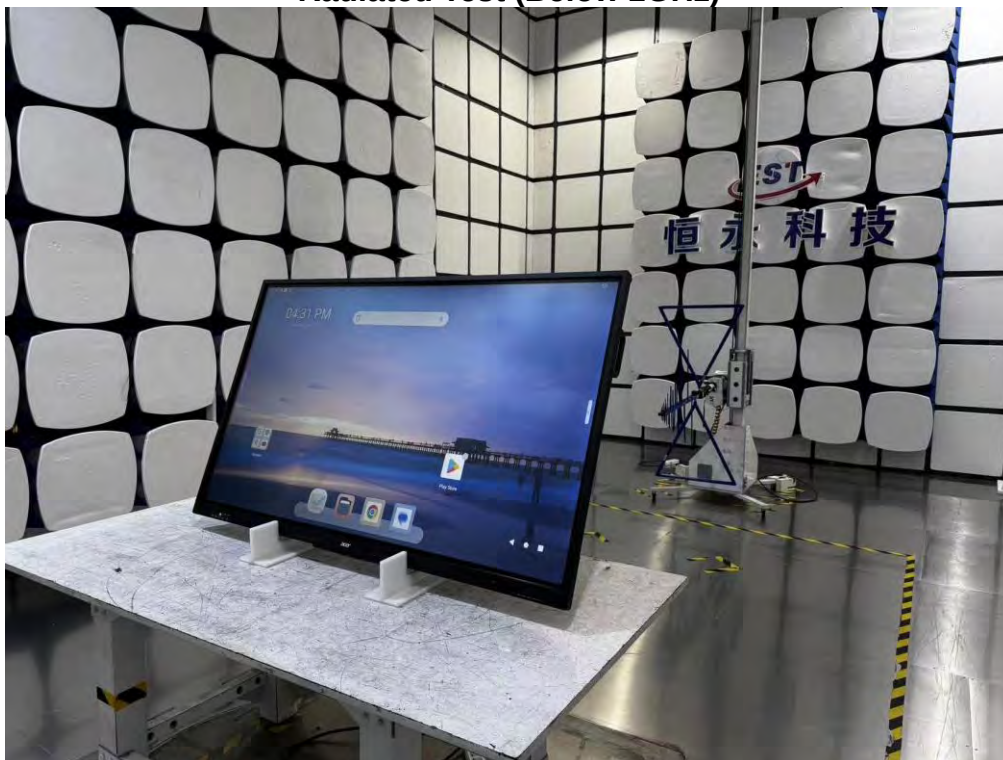
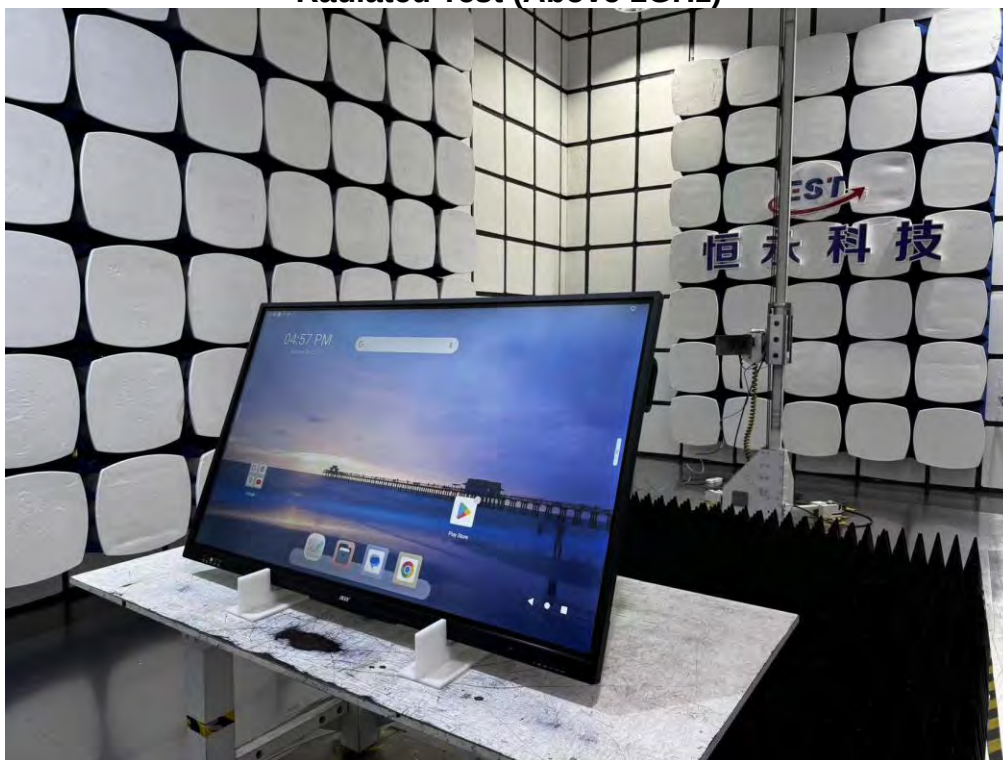
Test Mode	Antenna	Frequency[MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	0.00	0.000000	20	PASS
11A	Ant1	5180	LV	NT	0.00	0.000000	20	PASS
11A	Ant1	5180	HV	NT	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	NT	0.00	0.000000	20	PASS
11A	Ant1	5745	LV	NT	0.00	0.000000	20	PASS
11A	Ant1	5745	HV	NT	0.00	0.000000	20	PASS

Test Mode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	-20	-20000.00	-3.861004	20	PASS
11A	Ant1	5180	NV	-10	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	0	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	10	-20000.00	-3.861004	20	PASS
11A	Ant1	5180	NV	20	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	30	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	40	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	50	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	-30	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	-20	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	-10	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	0	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	10	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	20	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	30	-20000.00	-3.481288	20	PASS
11A	Ant1	5745	NV	40	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	50	0.00	0.000000	20	PASS

11. TEST SETUP PHOTO

Conducted Test



Radiated Test (Below 1GHz)**Radiated Test (Above 1GHz)**

12. EUT PHOTO

External Photos
M/N: IFP6504E-AE



External Photos

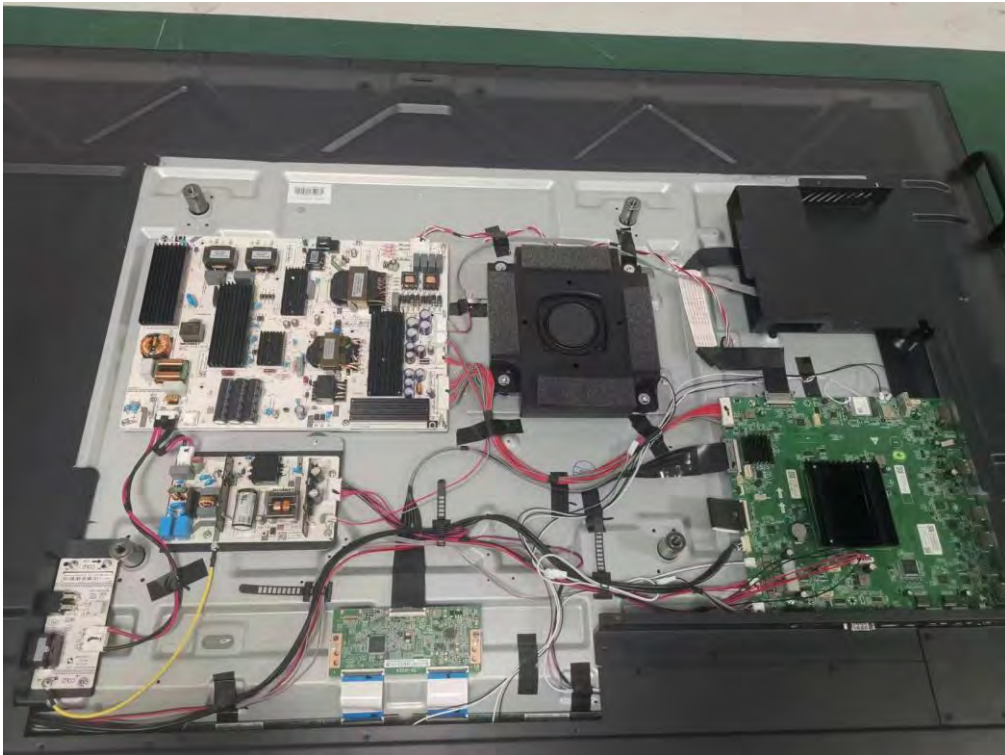
M/N: IFP6504E-AE



External Photos M/N: IFP6504E-AE

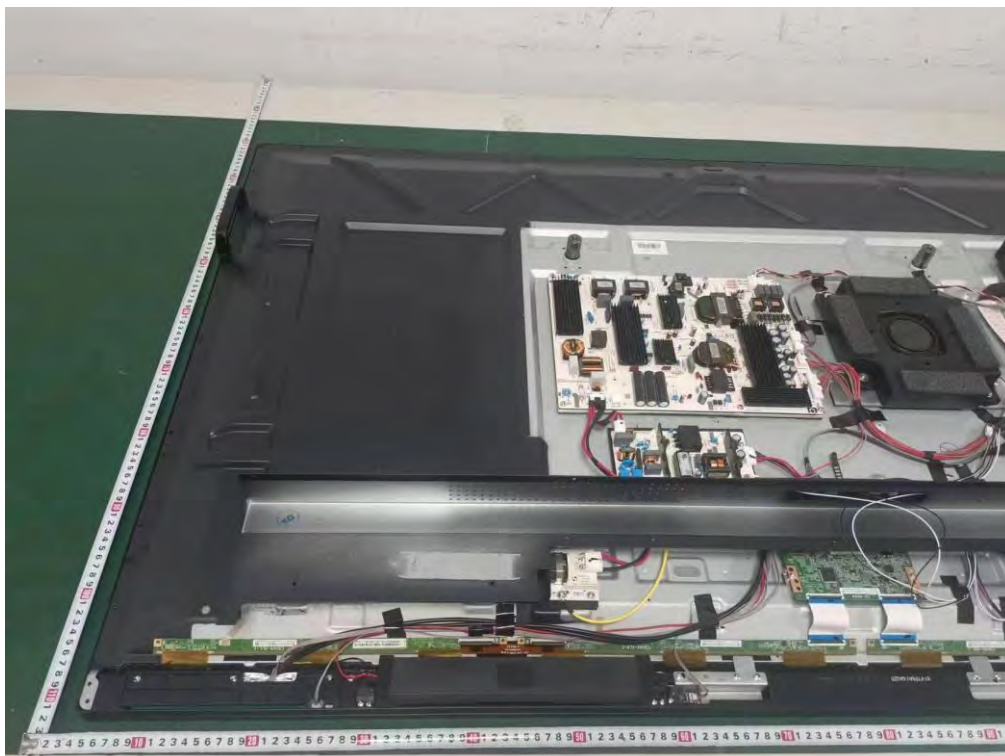


Internal Photos
M/N: IFP6504E-AE

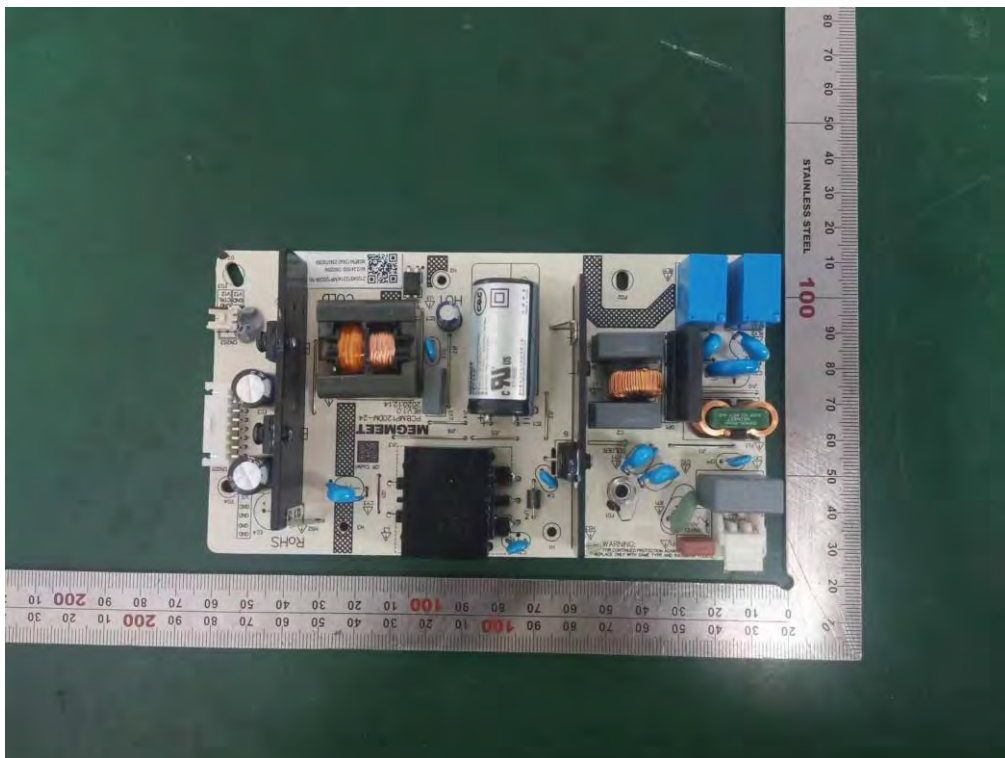
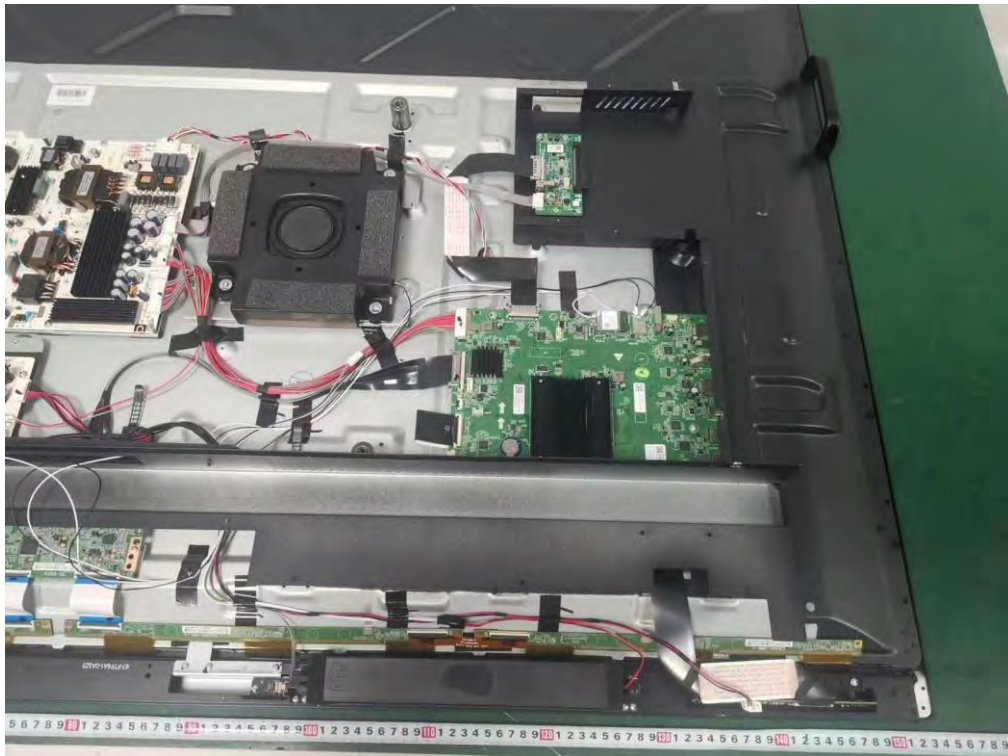


Internal Photos

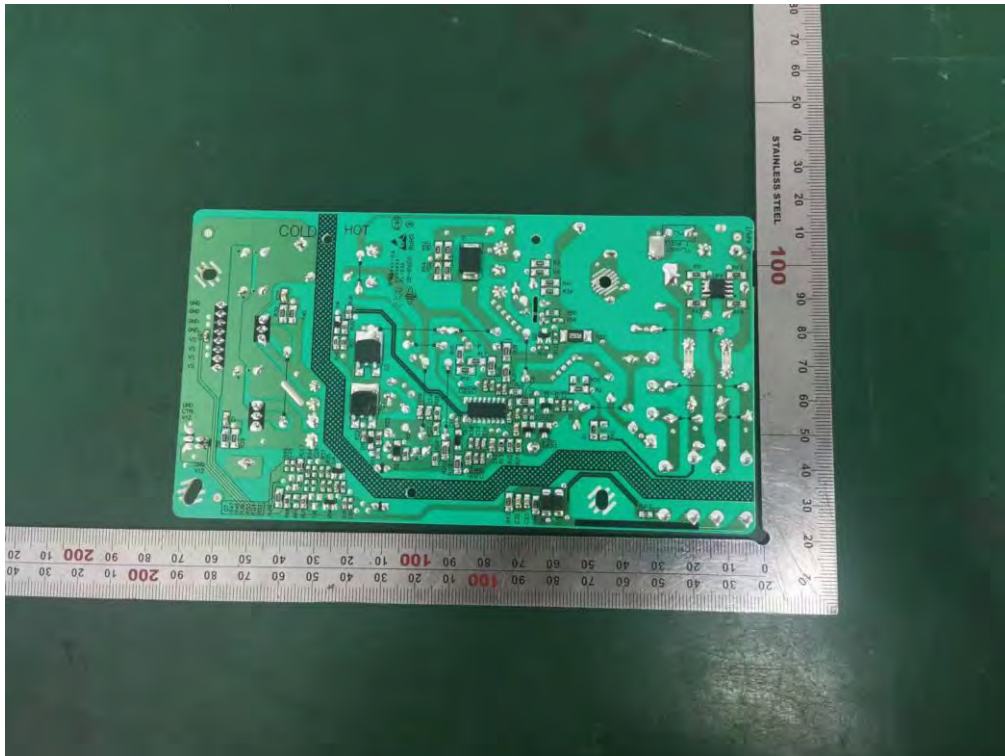
M/N: IFP6504E-AE



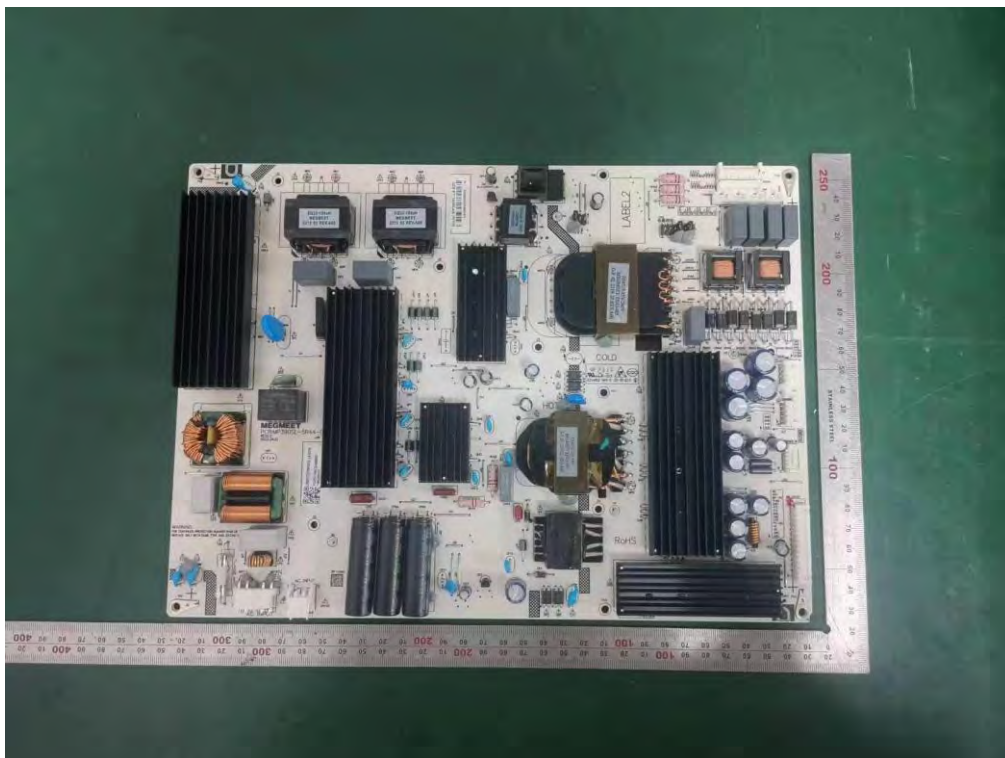
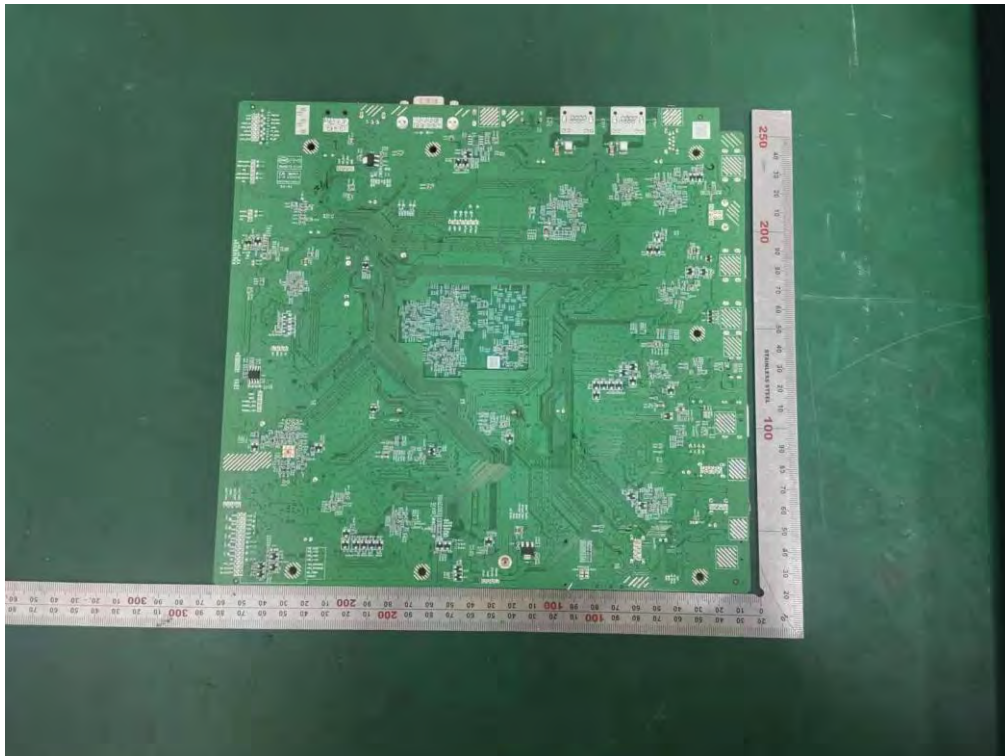
Internal Photos M/N: IFP6504E-AE



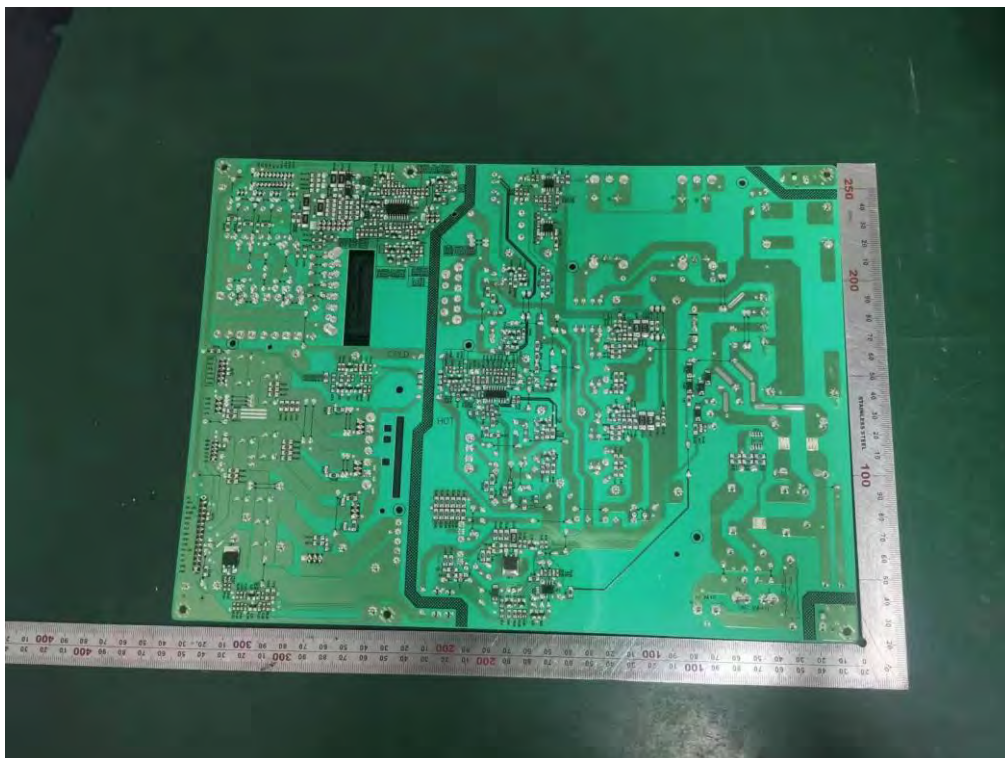
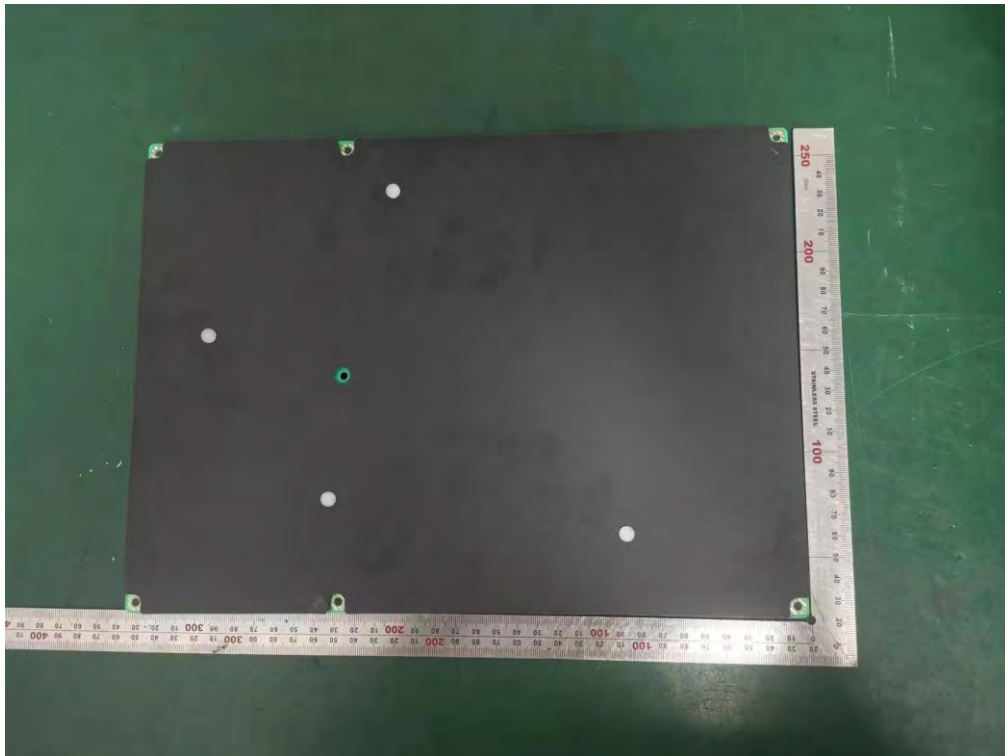
Internal Photos
M/N: IFP6504E-AE



Internal Photos
M/N: IFP6504E-AE



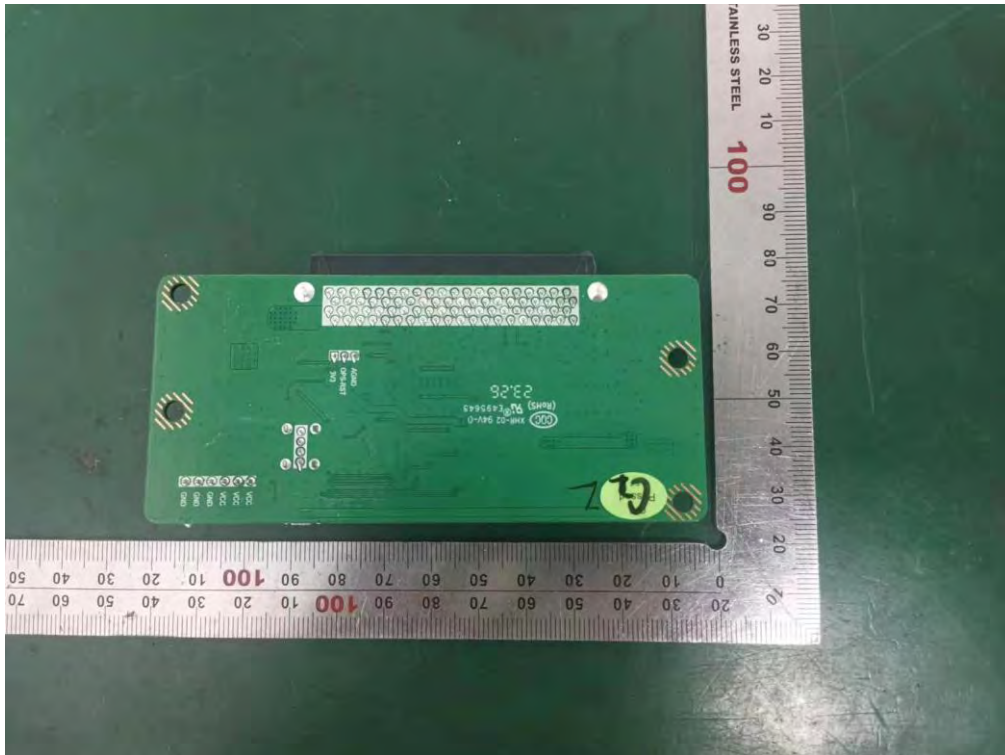
Internal Photos
M/N: IFP6504E-AE



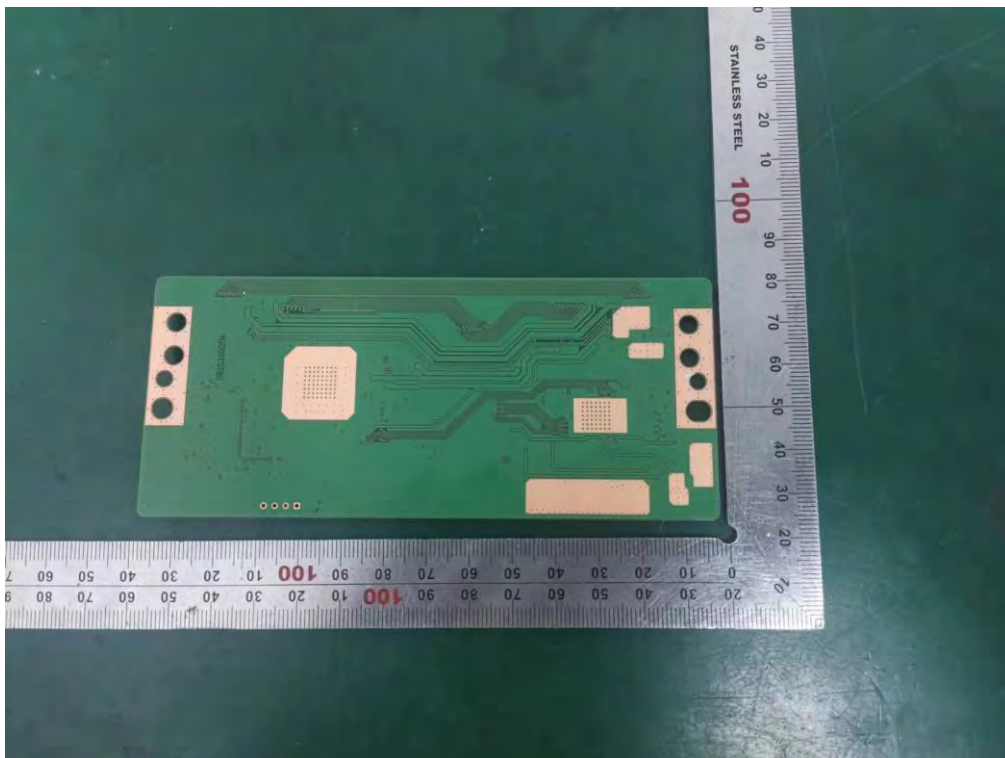
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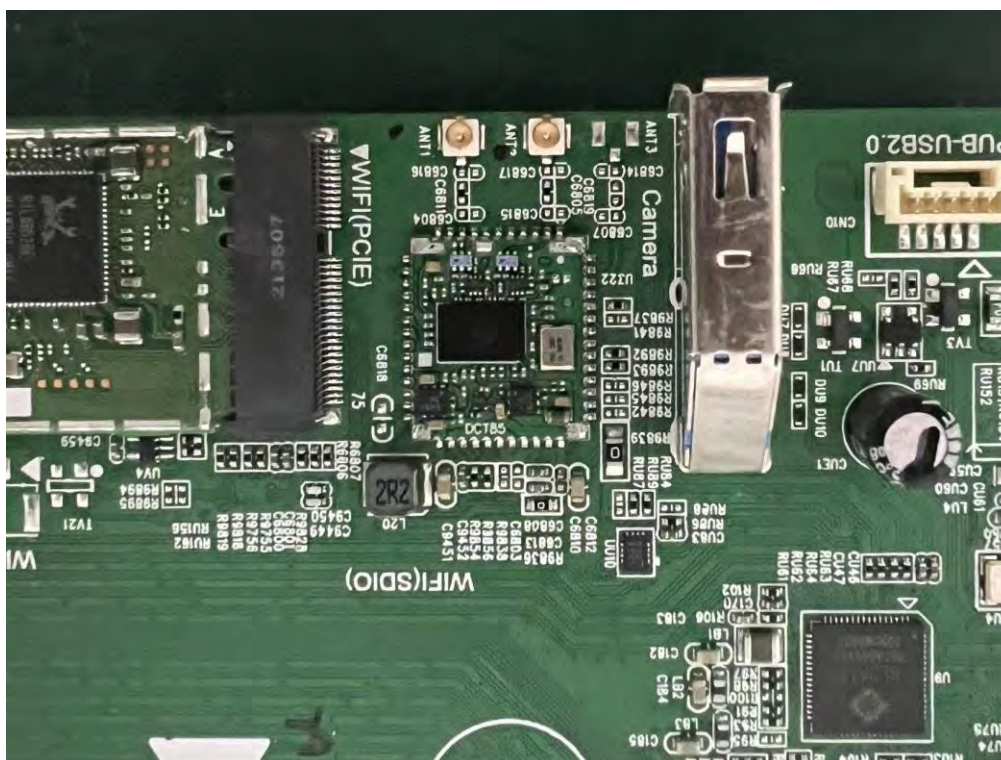
Internal Photos M/N: IFP6504E-AE



Internal Photos
M/N: IFP6504E-AE

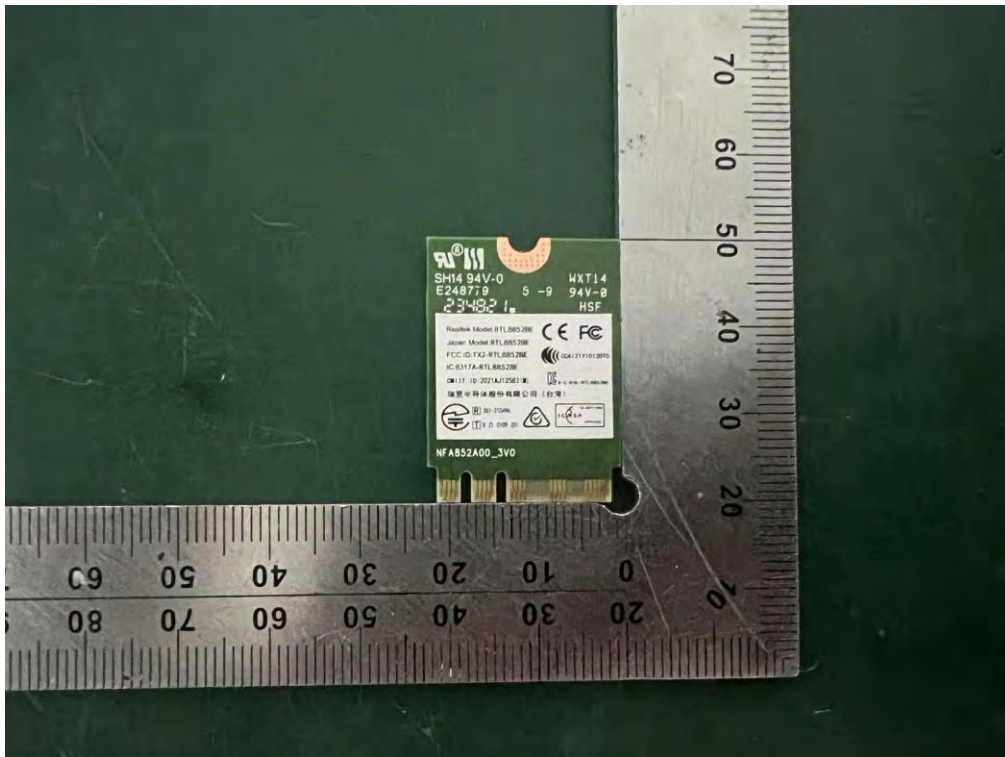
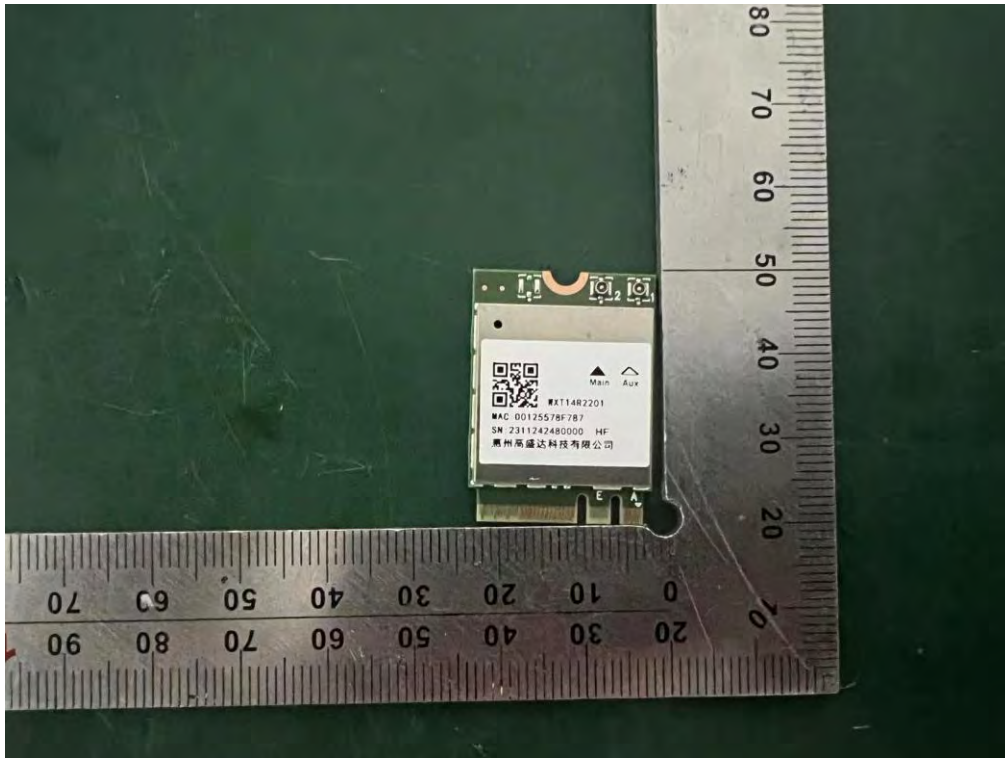


Internal Photos M/N: IFP6504E-AE

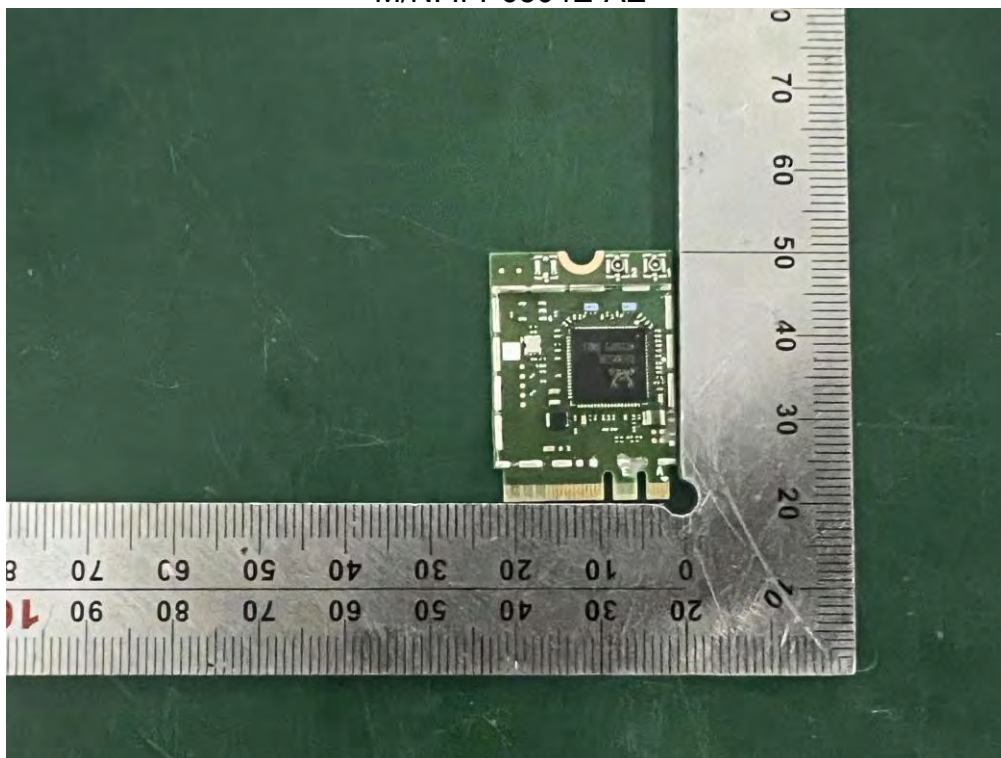


Internal Photos

M/N: IFP6504E-AE



Internal Photos
M/N: IFP6504E-AE



End of Test Report