

Appendix A: Test Results of 5GHz Wi-Fi

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Appendix A.1: Test Results of Maximum output power

WIFI 5G B1:

TestMode	Frequency	Result[dBm]				Limit[dBm]	Verdict
		Ant1	Ant2	MIMO	Max. EIRP		
11A	5180	17.25	19.67	-	22.24	≤24	PASS
	5200	16.87	19.24	-	21.81	≤24	PASS
	5240	17.01	19.62	-	22.19	≤24	PASS
11N20MIMO	5180	14.62	17.75	19.47	22.04	≤24	PASS
	5200	15.22	17.60	19.58	22.15	≤24	PASS
	5240	14.81	17.40	19.31	21.88	≤24	PASS
11N40MIMO	5190	15.28	17.56	19.58	22.15	≤24	PASS
	5230	16.78	17.29	20.05	22.62	≤24	PASS
11AC20MIMO	5180	15.58	17.79	19.83	22.40	≤24	PASS
	5200	15.15	17.48	19.48	22.05	≤24	PASS
	5240	14.85	17.34	19.28	21.85	≤24	PASS
11AC40MIMO	5190	15.22	17.65	19.61	22.18	≤24	PASS
	5230	15.24	17.61	19.60	22.17	≤24	PASS
11AC80MIMO	5210	13.67	18.29	19.58	22.15	≤24	PASS
11AX20MIMO	5180	15.03	17.16	19.23	21.80	≤24	PASS
	5200	14.76	16.87	18.95	21.52	≤24	PASS
	5240	14.35	16.77	18.74	21.31	≤24	PASS
11AX40MIMO	5190	15.58	17.50	19.66	22.23	≤24	PASS
	5230	15.30	17.26	19.40	21.97	≤24	PASS
11AX80MIMO	5210	15.23	17.31	19.40	21.97	≤24	PASS

WIFI 5G B2/3/4:

TestMode	Frequency	Result[dBm]			Limit[dBm]	Verdict
		Ant1	Ant2	MIMO		
11A	5260	15.33	17.13	-	≤24	PASS
	5280	15.13	17.01	-	≤24	PASS
	5320	15.35	17.15	-	≤24	PASS
	5500	12.13	14.19	-	≤24	PASS
	5580	14.65	17.58	-	≤24	PASS
	5700	12.40	14.22	-	≤24	PASS
	5745	15.39	17.26	-	≤30	PASS
	5785	15.15	17.28	-	≤30	PASS
	5825	15.04	17.53	-	≤30	PASS
11N20MIMO	5260	13.39	15.08	17.33	≤24	PASS
	5280	13.22	15.10	17.27	≤24	PASS
	5320	13.17	15.20	17.31	≤24	PASS
	5500	12.49	15.46	17.23	≤24	PASS
	5580	12.78	15.47	17.34	≤24	PASS
	5700	13.47	15.19	17.42	≤24	PASS
	5745	13.29	15.09	17.29	≤30	PASS
	5785	13.27	15.29	17.41	≤30	PASS
	5825	13.11	15.55	17.51	≤30	PASS
11N40MIMO	5270	13.68	15.35	17.61	≤24	PASS
	5310	13.33	15.20	17.38	≤24	PASS
	5510	10.46	13.57	15.02	≤24	PASS
	5550	12.85	15.81	17.59	≤24	PASS
	5670	13.10	15.02	17.18	≤24	PASS
	5755	13.33	15.50	17.56	≤30	PASS
	5795	13.34	15.58	17.61	≤30	PASS
11AC20MIMO	5260	13.45	15.22	17.43	≤24	PASS
	5280	13.22	15.10	17.27	≤24	PASS
	5320	13.33	15.27	17.42	≤24	PASS
	5500	12.56	15.46	17.26	≤24	PASS
	5580	12.71	15.45	17.30	≤24	PASS
	5700	13.38	15.09	17.33	≤24	PASS

	5745	13.31	14.97	17.23	≤30	PASS
	5785	13.11	15.17	17.27	≤30	PASS
	5825	13.05	15.21	17.27	≤30	PASS
11AC40MIMO	5270	13.60	15.40	17.60	≤24	PASS
	5310	13.28	15.13	17.31	≤24	PASS
	5510	10.41	13.36	14.89	≤24	PASS
	5550	12.79	15.59	17.42	≤24	PASS
	5670	13.09	14.96	17.14	≤24	PASS
	5755	13.40	15.45	17.56	≤30	PASS
	5795	13.47	15.56	17.65	≤30	PASS
11ac80MIMO	5290	11.91	15.55	17.11	≤24	PASS
	5530	12.42	14.70	16.56	≤24	PASS
	5610	13.17	15.12	17.26	≤24	PASS
	5775	13.77	16.25	18.19	≤30	PASS
11AX20MIMO	5260	13.29	15.12	17.31	≤24	PASS
	5280	13.10	15.00	17.16	≤24	PASS
	5320	12.79	14.73	16.88	≤24	PASS
	5500	12.44	14.82	16.80	≤24	PASS
	5580	13.13	15.18	17.29	≤24	PASS
	5700	13.15	14.47	16.87	≤24	PASS
	5745	13.05	14.35	16.76	≤30	PASS
	5785	12.97	14.53	16.83	≤30	PASS
11AX40MIMO	5270	12.94	13.65	16.32	≤24	PASS
	5310	12.47	13.34	15.94	≤24	PASS
	5510	12.83	14.35	16.67	≤24	PASS
	5550	13.04	14.64	16.92	≤24	PASS
	5670	14.10	14.36	17.24	≤24	PASS
	5755	13.81	14.34	17.09	≤30	PASS
	5795	13.78	14.48	17.15	≤30	PASS
11aX80MIMO	5290	12.71	14.71	16.83	≤24	PASS
	5530	12.35	14.83	16.77	≤24	PASS
	5610	14.30	13.84	17.09	≤24	PASS
	5775	13.34	14.77	17.12	≤30	PASS

Band B2/B3 Max. EIRP=17.61dBm+2.57dBi= 20.18dBm< 30dBm

Appendix A.2: Test Results of Conducted Power Spectral Density

WIFI 5G B1:

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit [dBm/MHz]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	5.45	≤11.00	7.62	≤10.00	PASS
	Ant2	5180	7.19	≤11.00	9.76	≤10.00	PASS
	Ant1	5200	5.20	≤11.00	7.37	≤10.00	PASS
	Ant2	5200	6.57	≤11.00	9.14	≤10.00	PASS
	Ant1	5240	5.02	≤11.00	7.19	≤10.00	PASS
	Ant2	5240	6.78	≤11.00	9.35	≤10.00	PASS
11N20MIMO	Ant1	5180	2.48	≤11.00	4.65	≤10.00	PASS
	Ant2	5180	5.35	≤11.00	7.92	≤10.00	PASS
	total	5180	7.16	≤11.00	9.6	≤10.00	PASS
	Ant1	5200	3.03	≤11.00	5.2	≤10.00	PASS
	Ant2	5200	4.77	≤11.00	7.34	≤10.00	PASS
	total	5200	7.00	≤11.00	9.41	≤10.00	PASS
	Ant1	5240	2.68	≤11.00	4.85	≤10.00	PASS
	Ant2	5240	4.38	≤11.00	6.95	≤10.00	PASS
total	5240	6.62	≤11.00	9.04	≤10.00	PASS	
11N40MIMO	Ant1	5190	0.97	≤11.00	3.14	≤10.00	PASS
	Ant2	5190	2.58	≤11.00	5.15	≤10.00	PASS
	total	5190	4.86	≤11.00	7.27	≤10.00	PASS
	Ant1	5230	2.05	≤11.00	4.22	≤10.00	PASS
	Ant2	5230	2.29	≤11.00	4.86	≤10.00	PASS
	total	5230	5.18	≤11.00	7.56	≤10.00	PASS
11AC20MIMO	Ant1	5180	3.72	≤11.00	5.89	≤10.00	PASS
	Ant2	5180	4.90	≤11.00	7.47	≤10.00	PASS
	total	5180	7.36	≤11.00	9.76	≤10.00	PASS
	Ant1	5200	2.86	≤11.00	5.03	≤10.00	PASS
	Ant2	5200	4.61	≤11.00	7.18	≤10.00	PASS
	total	5200	6.83	≤11.00	9.25	≤10.00	PASS
	Ant1	5240	2.60	≤11.00	4.77	≤10.00	PASS
	Ant2	5240	4.59	≤11.00	7.16	≤10.00	PASS
total	5240	6.72	≤11.00	9.14	≤10.00	PASS	
11AC40MIMO	Ant1	5190	1.50	≤11.00	3.67	≤10.00	PASS
	Ant2	5190	2.40	≤11.00	4.97	≤10.00	PASS
	total	5190	4.98	≤11.00	7.38	≤10.00	PASS
	Ant1	5230	0.92	≤11.00	3.09	≤10.00	PASS
	Ant2	5230	2.53	≤11.00	5.1	≤10.00	PASS
	total	5230	4.81	≤11.00	7.22	≤10.00	PASS
11AC80MIMO	Ant1	5210	-3.66	≤11.00	-1.49	≤10.00	PASS
	Ant2	5210	0.63	≤11.00	3.2	≤10.00	PASS
	total	5210	2.00	≤11.00	4.47	≤10.00	PASS
11AX20MIMO	Ant1	5180	3.43	≤11.00	5.60	≤10.00	PASS
	Ant2	5180	5.06	≤11.00	7.63	≤10.00	PASS
	total	5180	7.33	≤11.00	9.74	≤10.00	PASS
	Ant1	5200	3.03	≤11.00	5.20	≤10.00	PASS
	Ant2	5200	5.12	≤11.00	7.69	≤10.00	PASS
	total	5200	7.21	≤11.00	9.63	≤10.00	PASS
	Ant1	5240	2.92	≤11.00	5.09	≤10.00	PASS
	Ant2	5240	4.23	≤11.00	6.80	≤10.00	PASS
total	5240	6.63	≤11.00	9.04	≤10.00	PASS	
11AX40MIMO	Ant1	5190	2.16	≤11.00	4.33	≤10.00	PASS
	Ant2	5190	2.38	≤11.00	4.95	≤10.00	PASS
	total	5190	5.28	≤11.00	7.66	≤10.00	PASS
	Ant1	5230	1.45	≤11.00	3.62	≤10.00	PASS
	Ant2	5230	1.90	≤11.00	4.47	≤10.00	PASS
	total	5230	4.69	≤11.00	7.08	≤10.00	PASS
11AX80MIMO	Ant1	5210	-1.99	≤11.00	0.18	≤10.00	PASS
	Ant2	5210	-0.28	≤11.00	2.29	≤10.00	PASS
	total	5210	1.96	≤11.00	4.37	≤10.00	PASS

WIFI 5G B2/3/4:

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5260	5.34	≤11.00	PASS
	Ant2	5260	7.14	≤11.00	PASS
	Ant1	5280	5.81	≤11.00	PASS
	Ant2	5280	6.44	≤11.00	PASS
	Ant1	5320	5.30	≤11.00	PASS
	Ant2	5320	6.21	≤11.00	PASS
	Ant1	5500	4.36	≤11.00	PASS
	Ant2	5500	6.77	≤11.00	PASS
	Ant1	5580	4.94	≤11.00	PASS
	Ant2	5580	7.85	≤11.00	PASS
	Ant1	5700	5.72	≤11.00	PASS
	Ant2	5700	7.56	≤11.00	PASS
	Ant1	5745	3.32	≤30.00	PASS
	Ant2	5745	4.69	≤30.00	PASS
	Ant1	5785	2.70	≤30.00	PASS
	Ant2	5785	5.27	≤30.00	PASS
	Ant1	5825	2.58	≤30.00	PASS
	Ant2	5825	5.09	≤30.00	PASS
11N20MIMO	Ant1	5260	3.30	≤11.00	PASS
	Ant2	5260	4.93	≤11.00	PASS
	total	5260	7.20	≤11.00	PASS
	Ant1	5280	2.92	≤11.00	PASS
	Ant2	5280	5.01	≤11.00	PASS
	total	5280	7.10	≤11.00	PASS
	Ant1	5320	3.00	≤11.00	PASS
	Ant2	5320	4.54	≤11.00	PASS
	total	5320	6.85	≤11.00	PASS
	Ant1	5500	2.21	≤11.00	PASS
	Ant2	5500	5.00	≤11.00	PASS
	total	5500	6.84	≤11.00	PASS
	Ant1	5580	2.70	≤11.00	PASS
	Ant2	5580	5.73	≤11.00	PASS
	total	5580	7.48	≤11.00	PASS
	Ant1	5700	3.07	≤11.00	PASS
	Ant2	5700	5.08	≤11.00	PASS
	total	5700	7.20	≤11.00	PASS
	Ant1	5745	0.51	≤30.00	PASS
	Ant2	5745	2.49	≤30.00	PASS
	total	5745	4.62	≤30.00	PASS
	Ant1	5785	0.62	≤30.00	PASS
	Ant2	5785	2.54	≤30.00	PASS
	total	5785	4.70	≤30.00	PASS
	Ant1	5825	0.17	≤30.00	PASS
	Ant2	5825	1.99	≤30.00	PASS
	total	5825	4.18	≤30.00	PASS
11N40MIMO	Ant1	5270	0.41	≤11.00	PASS
	Ant2	5270	2.18	≤11.00	PASS
	total	5270	4.39	≤11.00	PASS
	Ant1	5310	0.05	≤11.00	PASS
	Ant2	5310	1.87	≤11.00	PASS
	total	5310	4.06	≤11.00	PASS
	Ant1	5510	-0.72	≤11.00	PASS
	Ant2	5510	2.04	≤11.00	PASS
	total	5510	3.89	≤11.00	PASS
	Ant1	5550	0.27	≤11.00	PASS
	Ant2	5550	3.00	≤11.00	PASS
	total	5550	4.86	≤11.00	PASS
Ant1	5670	0.48	≤11.00	PASS	
Ant2	5670	2.53	≤11.00	PASS	

	total	5670	4.64	≤11.00	PASS
	Ant1	5755	-2.56	≤30.00	PASS
	Ant2	5755	0.08	≤30.00	PASS
	total	5755	1.97	≤30.00	PASS
	Ant1	5795	-1.52	≤30.00	PASS
	Ant2	5795	-0.26	≤30.00	PASS
	total	5795	2.17	≤30.00	PASS
11AC20MIMO	Ant1	5260	3.26	≤11.00	PASS
	Ant2	5260	5.03	≤11.00	PASS
	total	5260	7.24	≤11.00	PASS
	Ant1	5280	2.80	≤11.00	PASS
	Ant2	5280	5.11	≤11.00	PASS
	total	5280	7.12	≤11.00	PASS
	Ant1	5320	1.93	≤11.00	PASS
	Ant2	5320	5.17	≤11.00	PASS
	total	5320	6.86	≤11.00	PASS
	Ant1	5500	2.46	≤11.00	PASS
	Ant2	5500	5.04	≤11.00	PASS
	total	5500	6.95	≤11.00	PASS
	Ant1	5580	2.45	≤11.00	PASS
	Ant2	5580	6.04	≤11.00	PASS
	total	5580	7.62	≤11.00	PASS
	Ant1	5700	3.32	≤11.00	PASS
	Ant2	5700	5.02	≤11.00	PASS
	total	5700	7.26	≤11.00	PASS
	Ant1	5745	0.31	≤30.00	PASS
	Ant2	5745	1.99	≤30.00	PASS
	total	5745	4.24	≤30.00	PASS
	Ant1	5785	0.24	≤30.00	PASS
	Ant2	5785	2.26	≤30.00	PASS
	total	5785	4.38	≤30.00	PASS
	Ant1	5825	-0.13	≤30.00	PASS
	Ant2	5825	2.70	≤30.00	PASS
	total	5825	4.52	≤30.00	PASS
11AC40MIMO	Ant1	5270	0.60	≤11.00	PASS
	Ant2	5270	2.22	≤11.00	PASS
	total	5270	4.50	≤11.00	PASS
	Ant1	5310	0.69	≤11.00	PASS
	Ant2	5310	2.20	≤11.00	PASS
	total	5310	4.52	≤11.00	PASS
	Ant1	5510	-0.55	≤11.00	PASS
	Ant2	5510	2.21	≤11.00	PASS
	total	5510	4.06	≤11.00	PASS
	Ant1	5550	0.27	≤11.00	PASS
	Ant2	5550	3.35	≤11.00	PASS
	total	5550	5.09	≤11.00	PASS
	Ant1	5670	0.13	≤11.00	PASS
	Ant2	5670	2.77	≤11.00	PASS
	total	5670	4.66	≤11.00	PASS
	Ant1	5755	-2.38	≤30.00	PASS
	Ant2	5755	1.11	≤30.00	PASS
	total	5755	2.72	≤30.00	PASS
	Ant1	5795	-1.54	≤30.00	PASS
	Ant2	5795	0.01	≤30.00	PASS
	total	5795	2.31	≤30.00	PASS
11AC80MIMO	Ant1	5290	-4.87	≤11.00	PASS
	Ant2	5290	-2.48	≤11.00	PASS
	total	5290	-0.50	≤11.00	PASS
	Ant1	5530	-3.98	≤11.00	PASS
	Ant2	5530	-1.56	≤11.00	PASS
	total	5530	0.41	≤11.00	PASS
	Ant1	5610	-2.53	≤11.00	PASS
Ant2	5610	1.93	≤11.00	PASS	

	total	5610	3.26	≤11.00	PASS	
	Ant1	5775	-4.52	≤30.00	PASS	
	Ant2	5775	-5.39	≤30.00	PASS	
	total	5775	-1.92	≤30.00	PASS	
11AX20MIMO	Ant1	5260	4.24	≤11.00	PASS	
	Ant2	5260	5.55	≤11.00	PASS	
	total	5260	7.95	≤11.00	PASS	
	Ant1	5280	3.69	≤11.00	PASS	
	Ant2	5280	5.76	≤11.00	PASS	
	total	5280	7.86	≤11.00	PASS	
	Ant1	5320	3.88	≤11.00	PASS	
	Ant2	5320	5.29	≤11.00	PASS	
	total	5320	7.65	≤11.00	PASS	
	Ant1	5500	4.64	≤11.00	PASS	
	Ant2	5500	5.94	≤11.00	PASS	
	total	5500	8.35	≤11.00	PASS	
	Ant1	5580	3.83	≤11.00	PASS	
	Ant2	5580	5.98	≤11.00	PASS	
	total	5580	8.05	≤11.00	PASS	
	Ant1	5700	4.70	≤11.00	PASS	
	Ant2	5700	6.43	≤11.00	PASS	
	total	5700	8.66	≤11.00	PASS	
	Ant1	5745	1.80	≤30.00	PASS	
	Ant2	5745	2.39	≤30.00	PASS	
	total	5745	5.12	≤30.00	PASS	
	Ant1	5785	1.07	≤30.00	PASS	
	Ant2	5785	2.83	≤30.00	PASS	
	total	5785	5.05	≤30.00	PASS	
Ant1	5825	-0.53	≤30.00	PASS		
Ant2	5825	2.56	≤30.00	PASS		
total	5825	4.29	≤30.00	PASS		
11AX40MIMO	Ant1	5270	0.74	≤11.00	PASS	
	Ant2	5270	1.28	≤11.00	PASS	
	total	5270	4.03	≤11.00	PASS	
	Ant1	5310	0.76	≤11.00	PASS	
	Ant2	5310	0.89	≤11.00	PASS	
	total	5310	3.84	≤11.00	PASS	
	Ant1	5510	2.42	≤11.00	PASS	
	Ant2	5510	2.02	≤11.00	PASS	
	total	5510	5.23	≤11.00	PASS	
	Ant1	5550	0.87	≤11.00	PASS	
	Ant2	5550	1.89	≤11.00	PASS	
	total	5550	4.42	≤11.00	PASS	
	Ant1	5670	2.31	≤11.00	PASS	
	Ant2	5670	3.44	≤11.00	PASS	
	total	5670	5.92	≤11.00	PASS	
	Ant1	5755	-0.40	≤30.00	PASS	
	Ant2	5755	-0.19	≤30.00	PASS	
	total	5755	2.72	≤30.00	PASS	
	Ant1	5795	-0.71	≤30.00	PASS	
	Ant2	5795	0.33	≤30.00	PASS	
	total	5795	2.85	≤30.00	PASS	
	11AX80MIMO	Ant1	5290	-2.13	≤11.00	PASS
		Ant2	5290	-1.83	≤11.00	PASS
		total	5290	1.03	≤11.00	PASS
Ant1		5530	-3.03	≤11.00	PASS	
Ant2		5530	0.54	≤11.00	PASS	
total		5530	2.12	≤11.00	PASS	
Ant1		5610	-0.05	≤11.00	PASS	
Ant2		5610	1.44	≤11.00	PASS	
total		5610	3.77	≤11.00	PASS	
Ant1		5775	-3.22	≤30.00	PASS	
Ant2	5775	-1.76	≤30.00	PASS		

	total	5775	0.58	≤30.00	PASS
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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.

11A Ant1 5180



11A Ant2 5180



11A Ant1 5200



11A_Ant2_5200



11A_Ant1_5240



11A_Ant2_5240



11A_Ant1_5260



11A_Ant2_5260



11A_Ant1_5280



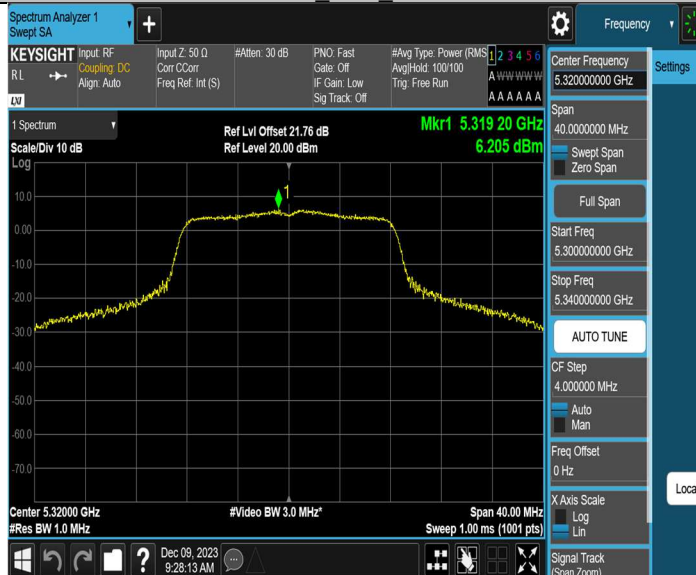
11A_Ant2_5280



11A_Ant1_5320



11A_Ant2_5320



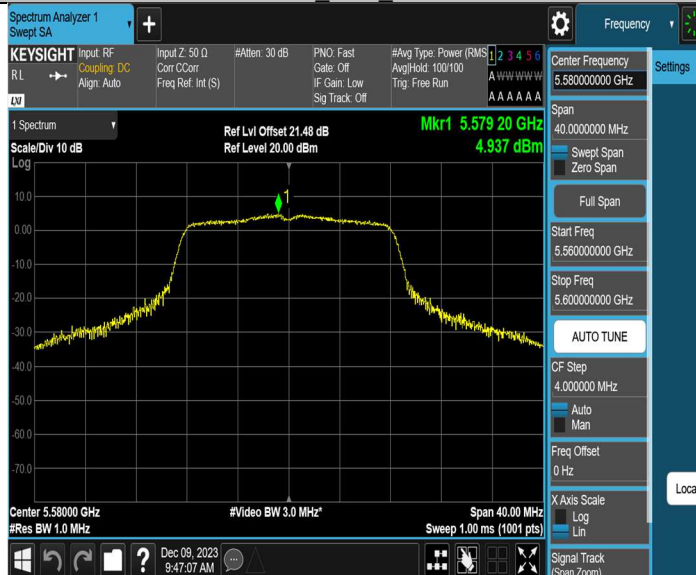
11A_Ant1_5500



11A_Ant2_5500



11A_Ant1_5580



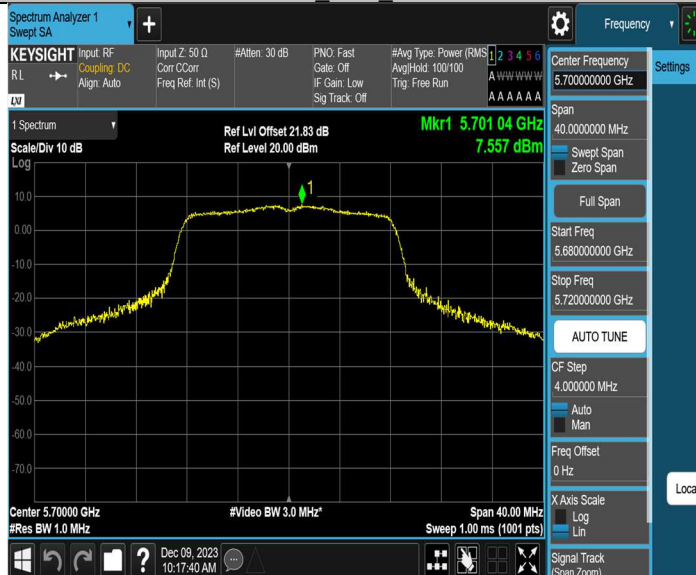
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11A_Ant1_5700



11A_Ant2_5700



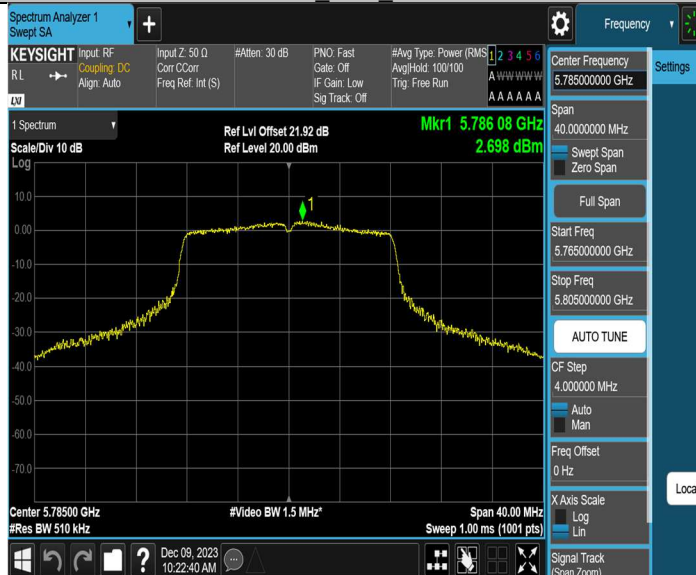
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11A_Ant2_5745



11A_Ant1_5785



11A_Ant2_5785



11A_Ant1_5825



11A_Ant2_5825



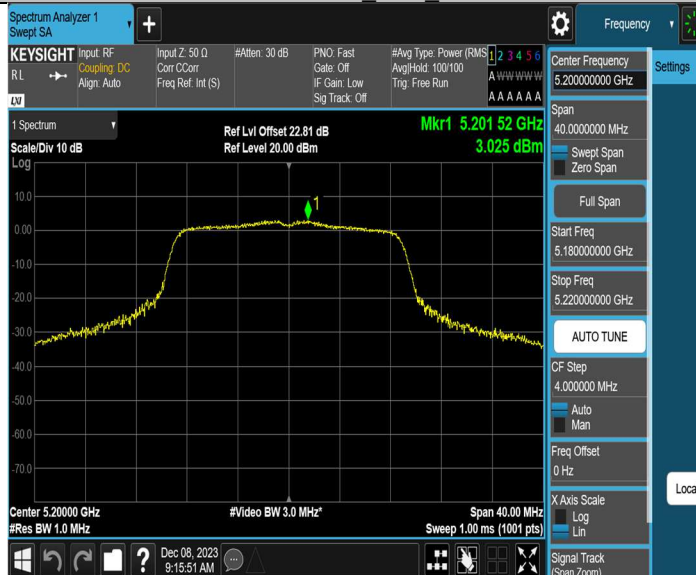
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11N20MIMO Ant2 5180



11N20MIMO Ant1 5200



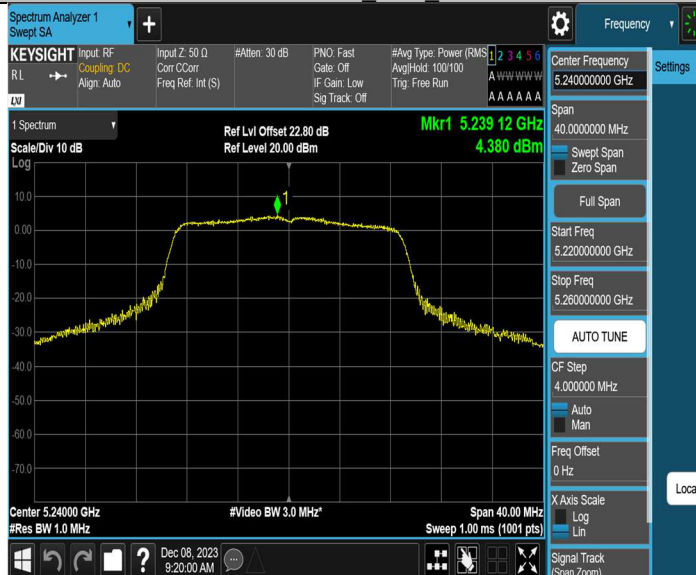
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11N20MIMO Ant1_5240



11N20MIMO Ant2_5240



11N20MIMO Ant1 5260



11N20MIMO Ant2 5260



11N20MIMO Ant1 5280



11N20MIMO Ant2_5280



11N20MIMO Ant1_5320



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11N20MIMO Ant1 5500



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11N20MIMO Ant1 5580



11N20MIMO Ant2 5580



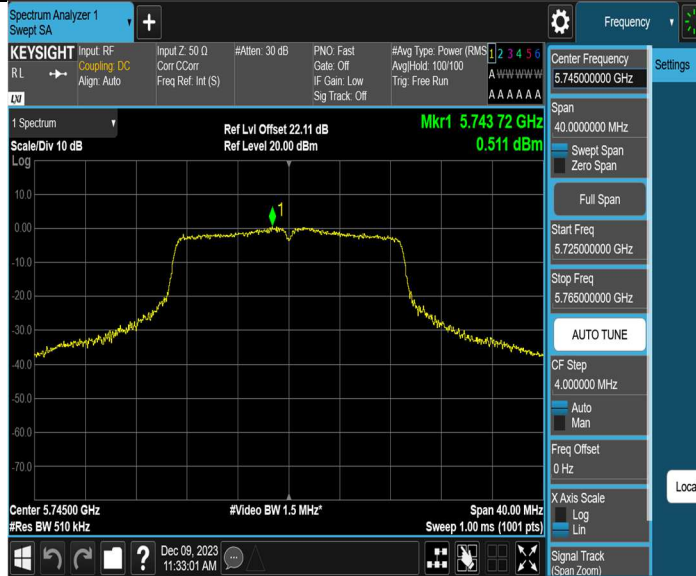
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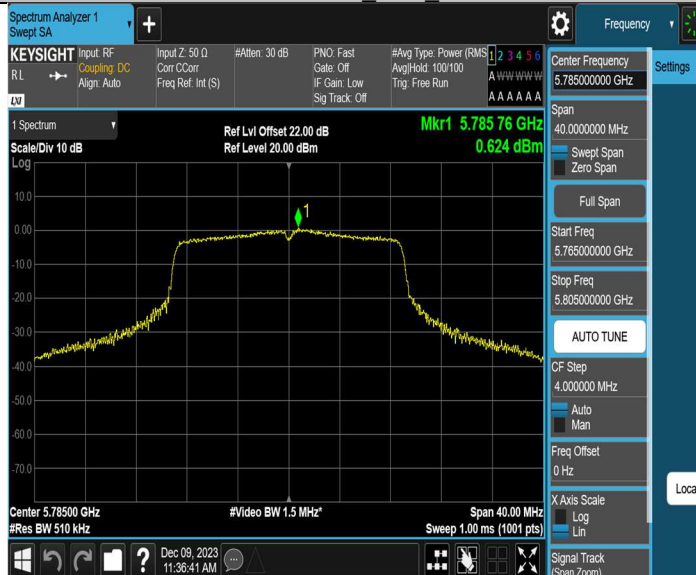
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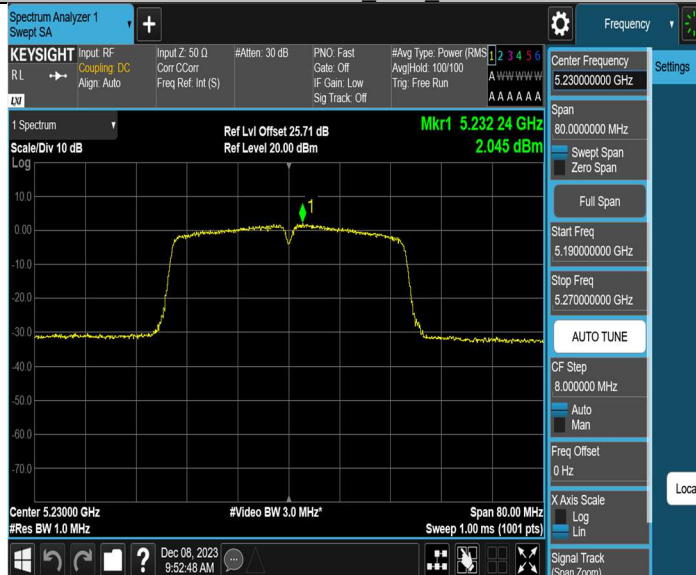
11N40MIMO Ant1 5190



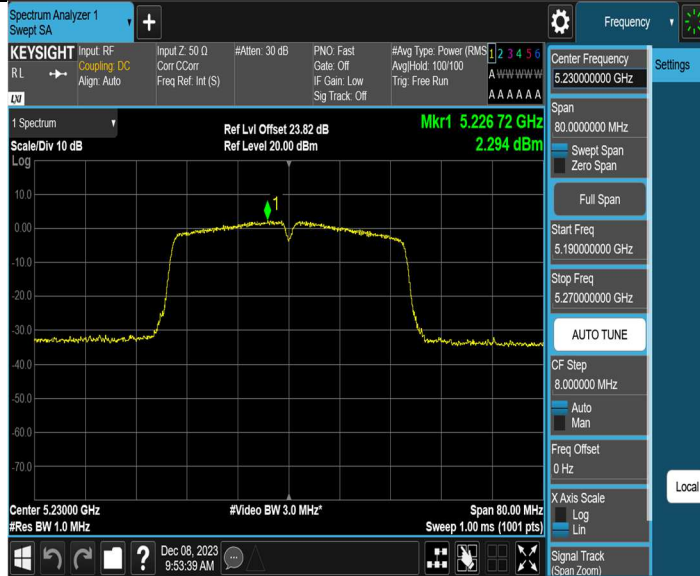
11N40MIMO Ant2 5190



11N40MIMO Ant1 5230



11N40MIMO Ant2_5230



11N40MIMO Ant1_5270



11N40MIMO Ant2_5270

