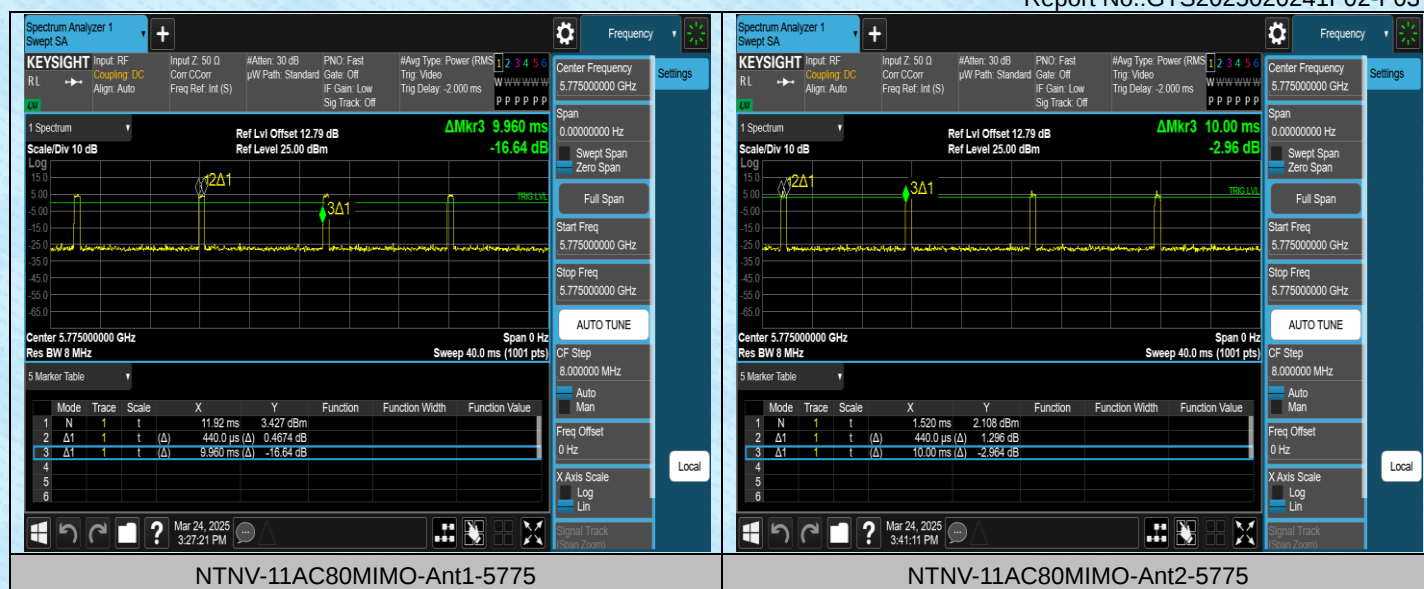




AppendixC: Maximum conducted output power

Test Result

Test Mode	Ant.	Freq. [MHz]	Rate	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11AC20SISO	Ant1	5180	MCS0	6.24	19.43	7.12	13.36	≤23.98	PASS
11AC20SISO	Ant2	5180	MCS0	5.54	18.90	7.24	12.78	≤23.98	PASS
11AC20SISO	Ant1	5200	MCS0	5.51	19.05	7.20	12.71	≤23.98	PASS
11AC20SISO	Ant2	5200	MCS0	5.50	18.75	7.27	12.77	≤23.98	PASS
11AC20SISO	Ant1	5240	MCS0	5.70	19.28	7.15	12.85	≤23.98	PASS
11AC20SISO	Ant2	5240	MCS0	4.71	19.07	7.20	11.91	≤23.98	PASS
11AC20SISO	Ant1	5745	MCS0	7.18	19.12	7.19	14.37	≤30.00	PASS
11AC20SISO	Ant2	5745	MCS0	6.01	18.90	7.24	13.25	≤30.00	PASS
11AC20SISO	Ant1	5785	MCS0	6.70	19.05	7.20	13.90	≤30.00	PASS
11AC20SISO	Ant2	5785	MCS0	6.63	19.28	7.15	13.78	≤30.00	PASS
11AC20SISO	Ant1	5805	MCS0	7.62	18.97	7.22	14.84	≤30.00	PASS
11AC20SISO	Ant2	5805	MCS0	6.93	18.97	7.22	14.15	≤30.00	PASS
11AC40SISO	Ant1	5190	MCS0	2.78	9.20	10.36	13.14	≤23.98	PASS
11AC40SISO	Ant2	5190	MCS0	2.62	9.02	10.45	13.07	≤23.98	PASS
11AC40SISO	Ant1	5230	MCS0	2.37	9.31	10.31	12.68	≤23.98	PASS
11AC40SISO	Ant2	5230	MCS0	2.84	9.13	10.40	13.24	≤23.98	PASS
11AC40SISO	Ant1	5755	MCS0	4.11	9.38	10.28	14.39	≤30.00	PASS
11AC40SISO	Ant2	5755	MCS0	3.59	9.49	10.23	13.82	≤30.00	PASS
11AC40SISO	Ant1	5795	MCS0	4.18	8.91	10.50	14.68	≤30.00	PASS
11AC40SISO	Ant2	5795	MCS0	2.96	9.52	10.21	13.17	≤30.00	PASS
11AC80SISO	Ant1	5210	MCS0	-0.23	4.40	13.57	13.34	≤23.98	PASS
11AC80SISO	Ant2	5210	MCS0	-0.82	4.37	13.60	12.78	≤23.98	PASS
11AC80SISO	Ant1	5775	MCS0	0.13	4.40	13.57	13.70	≤30.00	PASS
11AC80SISO	Ant2	5775	MCS0	-0.04	4.40	13.57	13.53	≤30.00	PASS
11AC20MIMO	Ant1	5180	MCS0	0.70	19.12	7.19	7.89	≤23.98	PASS
11AC20MIMO	Ant2	5180	MCS0	0.15	18.97	7.22	7.37	≤23.98	PASS
11AC20MIMO	total	5180	MCS0	---	---	---	10.65	≤22.60	PASS
11AC20MIMO	Ant1	5200	MCS0	0.12	19.12	7.19	7.31	≤23.98	PASS
11AC20MIMO	Ant2	5200	MCS0	0.17	18.82	7.25	7.42	≤23.98	PASS
11AC20MIMO	total	5200	MCS0	---	---	---	10.38	≤22.60	PASS
11AC20MIMO	Ant1	5240	MCS0	0.27	18.97	7.22	7.49	≤23.98	PASS
11AC20MIMO	Ant2	5240	MCS0	-0.62	18.97	7.22	6.60	≤23.98	PASS
11AC20MIMO	total	5240	MCS0	---	---	---	10.08	≤22.60	PASS
11AC20MIMO	Ant1	5745	MCS0	1.58	19.20	7.17	8.75	≤30.00	PASS
11AC20MIMO	Ant2	5745	MCS0	0.24	19.20	7.17	7.41	≤30.00	PASS
11AC20MIMO	total	5745	MCS0	---	---	---	11.14	≤29.31	PASS
11AC20MIMO	Ant1	5785	MCS0	1.02	19.20	7.17	8.19	≤30.00	PASS
11AC20MIMO	Ant2	5785	MCS0	0.17	19.20	7.17	7.34	≤30.00	PASS

11AC20MIMO	total	5785	MCS0	---	---	---	10.80	≤29.31	PASS
11AC20MIMO	Ant1	5805	MCS0	1.68	19.28	7.15	8.83	≤30.00	PASS
11AC20MIMO	Ant2	5805	MCS0	0.08	18.97	7.22	7.30	≤30.00	PASS
11AC20MIMO	total	5805	MCS0	---	---	---	11.14	≤29.31	PASS
11AC40MIMO	Ant1	5190	MCS0	-2.61	9.56	10.20	7.59	≤23.98	PASS
11AC40MIMO	Ant2	5190	MCS0	-2.82	9.31	10.31	7.49	≤23.98	PASS
11AC40MIMO	total	5190	MCS0	---	---	---	10.55	≤22.60	PASS
11AC40MIMO	Ant1	5230	MCS0	-3.40	9.45	10.25	6.85	≤23.98	PASS
11AC40MIMO	Ant2	5230	MCS0	-3.13	9.24	10.34	7.21	≤23.98	PASS
11AC40MIMO	total	5230	MCS0	---	---	---	10.04	≤22.60	PASS
11AC40MIMO	Ant1	5755	MCS0	-1.65	9.20	10.36	8.71	≤30.00	PASS
11AC40MIMO	Ant2	5755	MCS0	-2.15	9.09	10.41	8.26	≤30.00	PASS
11AC40MIMO	total	5755	MCS0	---	---	---	11.50	≤29.31	PASS
11AC40MIMO	Ant1	5795	MCS0	-1.76	9.45	10.25	8.49	≤30.00	PASS
11AC40MIMO	Ant2	5795	MCS0	-3.01	9.49	10.23	7.22	≤30.00	PASS
11AC40MIMO	total	5795	MCS0	---	---	---	10.91	≤29.31	PASS
11AC80MIMO	Ant1	5210	MCS0	-5.86	4.30	13.67	7.81	≤23.98	PASS
11AC80MIMO	Ant2	5210	MCS0	-5.96	4.74	13.24	7.28	≤23.98	PASS
11AC80MIMO	total	5210	MCS0	---	---	---	10.56	≤22.60	PASS
11AC80MIMO	Ant1	5775	MCS0	-4.64	4.42	13.55	8.91	≤30.00	PASS
11AC80MIMO	Ant2	5775	MCS0	-5.50	4.40	13.57	8.07	≤30.00	PASS
11AC80MIMO	total	5775	MCS0	---	---	---	11.52	≤29.31	PASS

Note: The Duty Cycle Factor is compensated in the graph.

Directional gain = $G_{Ant} + \text{Array Gain} = 3.68 + 0 = 3.68$

Directional gain = $G_{Ant} + \text{Array Gain} = 4.37 + 0 = 4.37$

AppendixD: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Rate	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11AC20SISO	Ant1	5180	MCS0	-0.61	≤11.00	PASS
11AC20SISO	Ant2	5180	MCS0	-0.38	≤11.00	PASS
11AC20SISO	Ant1	5200	MCS0	-0.33	≤11.00	PASS
11AC20SISO	Ant2	5200	MCS0	-0.27	≤11.00	PASS
11AC20SISO	Ant1	5240	MCS0	-1.93	≤11.00	PASS
11AC20SISO	Ant2	5240	MCS0	-1.02	≤11.00	PASS
11AC20SISO	Ant1	5745	MCS0	-1.05	≤30.00	PASS
11AC20SISO	Ant2	5745	MCS0	-1.96	≤30.00	PASS
11AC20SISO	Ant1	5785	MCS0	-2.33	≤30.00	PASS
11AC20SISO	Ant2	5785	MCS0	-1.81	≤30.00	PASS
11AC20SISO	Ant1	5805	MCS0	-1.51	≤30.00	PASS
11AC20SISO	Ant2	5805	MCS0	-0.52	≤30.00	PASS
11AC40SISO	Ant1	5190	MCS0	-3.03	≤11.00	PASS
11AC40SISO	Ant2	5190	MCS0	-1.83	≤11.00	PASS
11AC40SISO	Ant1	5230	MCS0	-2.72	≤11.00	PASS
11AC40SISO	Ant2	5230	MCS0	-2.01	≤11.00	PASS
11AC40SISO	Ant1	5755	MCS0	-3.76	≤30.00	PASS
11AC40SISO	Ant2	5755	MCS0	-3.75	≤30.00	PASS
11AC40SISO	Ant1	5795	MCS0	-3.48	≤30.00	PASS
11AC40SISO	Ant2	5795	MCS0	-4.83	≤30.00	PASS
11AC80SISO	Ant1	5210	MCS0	-4.45	≤11.00	PASS
11AC80SISO	Ant2	5210	MCS0	-4.9	≤11.00	PASS
11AC80SISO	Ant1	5775	MCS0	-4.94	≤30.00	PASS
11AC80SISO	Ant2	5775	MCS0	-7.78	≤30.00	PASS
11AC20MIMO	Ant1	5180	MCS0	-5.47	≤11.00	PASS
11AC20MIMO	Ant2	5180	MCS0	-4.83	≤11.00	PASS
11AC20MIMO	total	5180	MCS0	-2.13	≤9.62	PASS
11AC20MIMO	Ant1	5200	MCS0	-5.8	≤11.00	PASS
11AC20MIMO	Ant2	5200	MCS0	-6.01	≤11.00	PASS
11AC20MIMO	total	5200	MCS0	-2.89	≤9.62	PASS
11AC20MIMO	Ant1	5240	MCS0	-4.52	≤11.00	PASS
11AC20MIMO	Ant2	5240	MCS0	-9.07	≤11.00	PASS
11AC20MIMO	total	5240	MCS0	-3.21	≤9.62	PASS
11AC20MIMO	Ant1	5745	MCS0	-5.62	≤30.00	PASS
11AC20MIMO	Ant2	5745	MCS0	-8.11	≤30.00	PASS
11AC20MIMO	total	5745	MCS0	-3.68	≤29.31	PASS
11AC20MIMO	Ant1	5785	MCS0	-7.32	≤30.00	PASS
11AC20MIMO	Ant2	5785	MCS0	-8.65	≤30.00	PASS
11AC20MIMO	total	5785	MCS0	-4.92	≤29.31	PASS
11AC20MIMO	Ant1	5825	MCS0	-6.45	≤30.00	PASS

11AC20MIMO	Ant2	5825	MCS0	-7.03	≤30.00	PASS
11AC20MIMO	total	5825	MCS0	-3.72	≤29.31	PASS
11AC40MIMO	Ant1	5190	MCS0	-7.57	≤11.00	PASS
11AC40MIMO	Ant2	5190	MCS0	-8.74	≤11.00	PASS
11AC40MIMO	total	5190	MCS0	-5.11	≤9.62	PASS
11AC40MIMO	Ant1	5230	MCS0	-7.44	≤11.00	PASS
11AC40MIMO	Ant2	5230	MCS0	-8.81	≤11.00	PASS
11AC40MIMO	total	5230	MCS0	-5.06	≤9.62	PASS
11AC40MIMO	Ant1	5755	MCS0	-9.48	≤30.00	PASS
11AC40MIMO	Ant2	5755	MCS0	-10.1	≤30.00	PASS
11AC40MIMO	total	5755	MCS0	-6.77	≤29.31	PASS
11AC40MIMO	Ant1	5795	MCS0	-9.31	≤30.00	PASS
11AC40MIMO	Ant2	5795	MCS0	-8.85	≤30.00	PASS
11AC40MIMO	total	5795	MCS0	-6.06	≤29.31	PASS
11AC80MIMO	Ant1	5210	MCS0	-10.08	≤11.00	PASS
11AC80MIMO	Ant2	5210	MCS0	-10.59	≤11.00	PASS
11AC80MIMO	total	5210	MCS0	-7.32	≤9.62	PASS
11AC80MIMO	Ant1	5775	MCS0	-11.32	≤30.00	PASS
11AC80MIMO	Ant2	5775	MCS0	-13.04	≤30.00	PASS
11AC80MIMO	total	5775	MCS0	-9.09	≤29.31	PASS

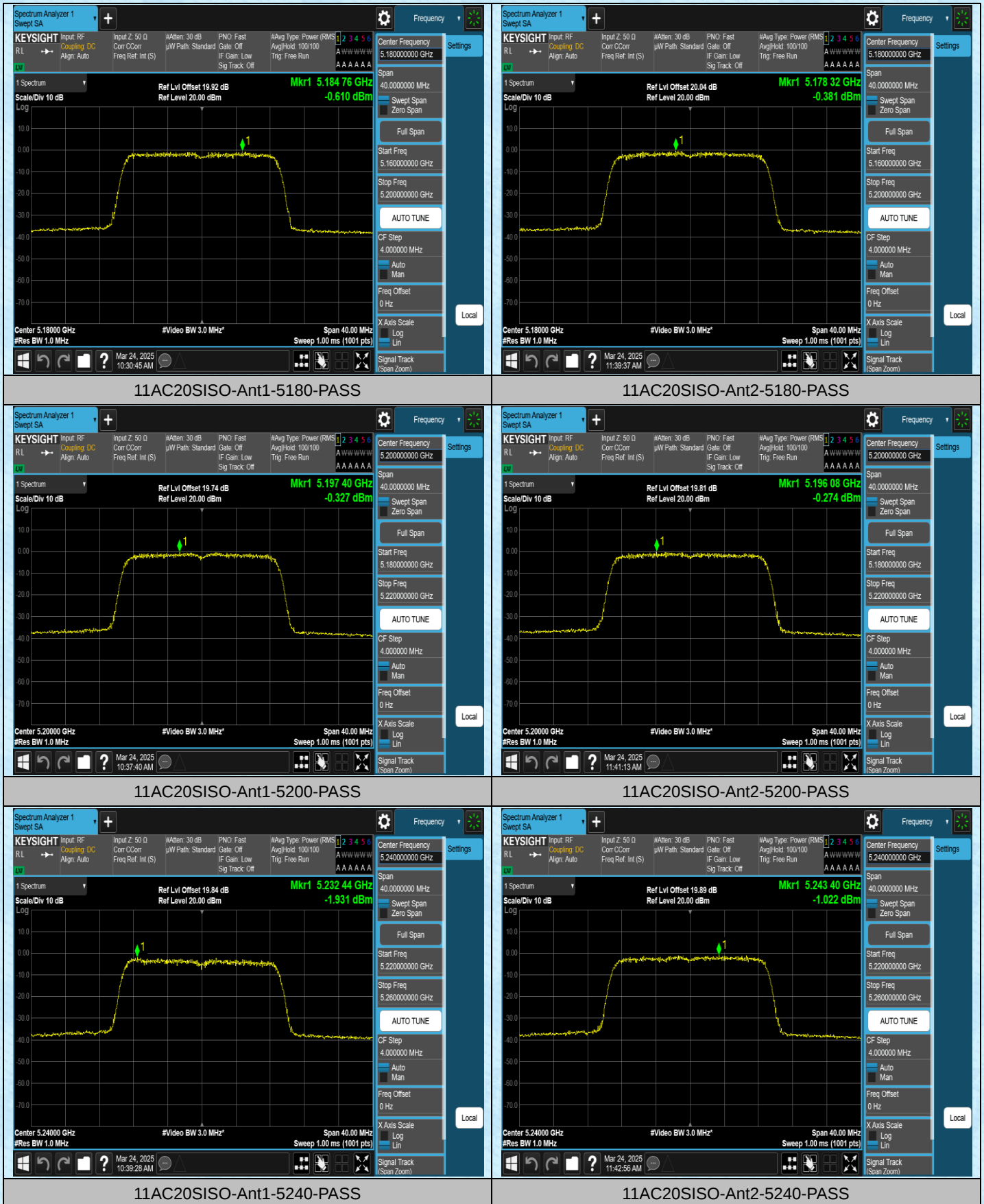
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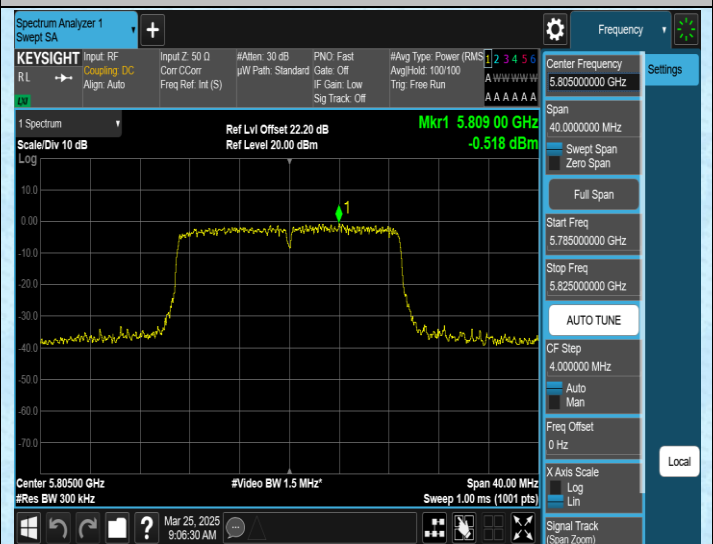
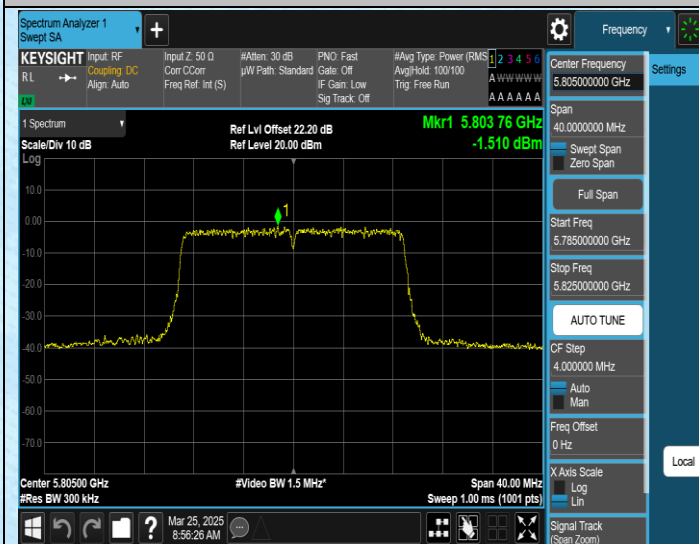
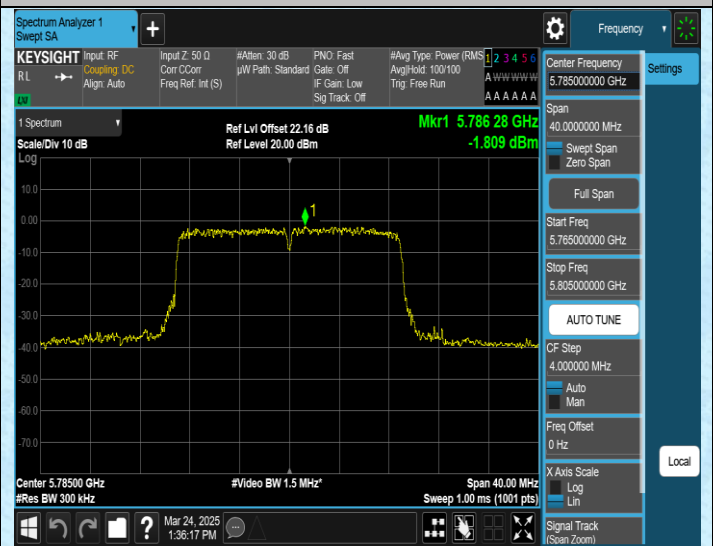
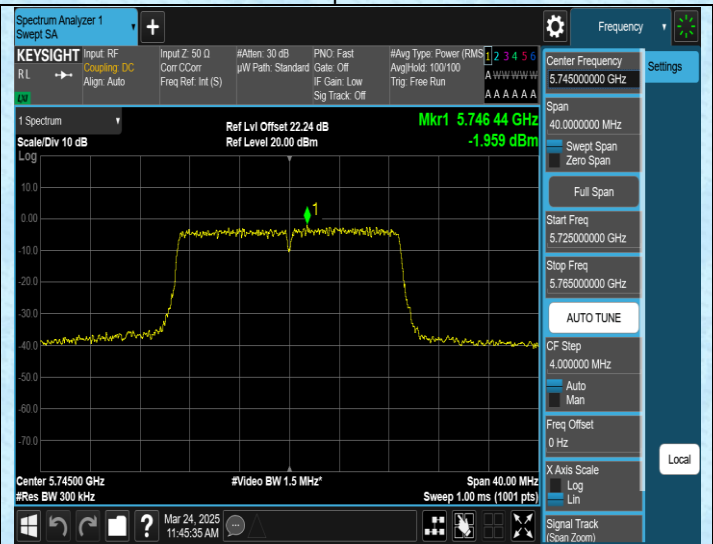
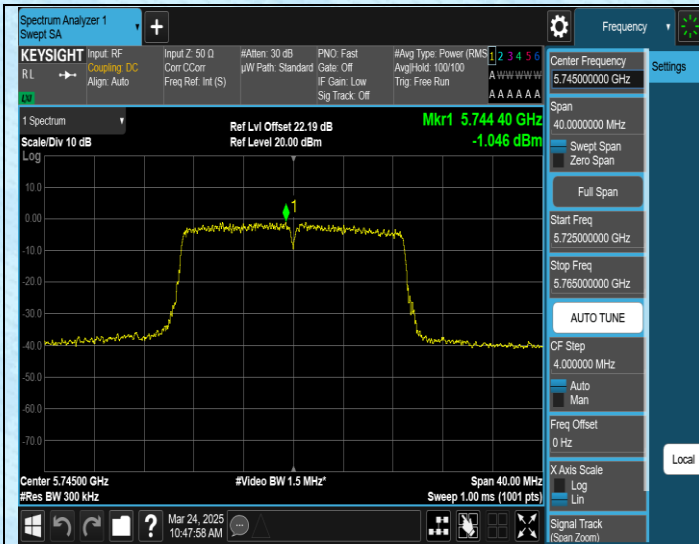
2.The Duty Cycle Factorand RBW Factoriscompensatedinthegraph.

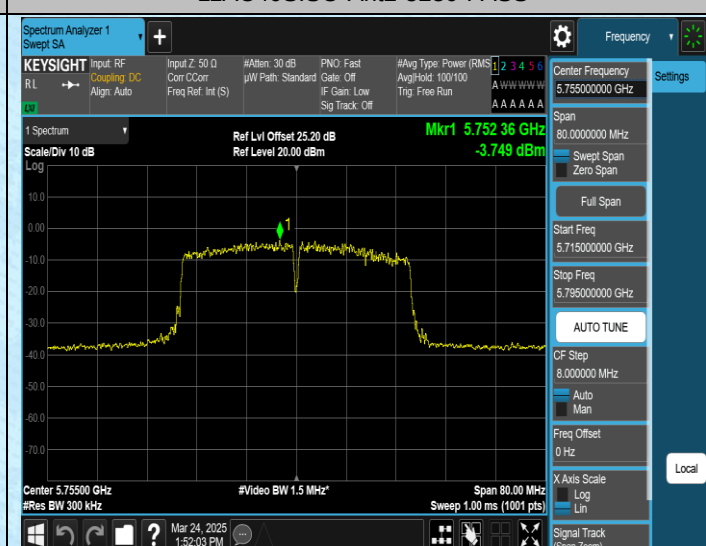
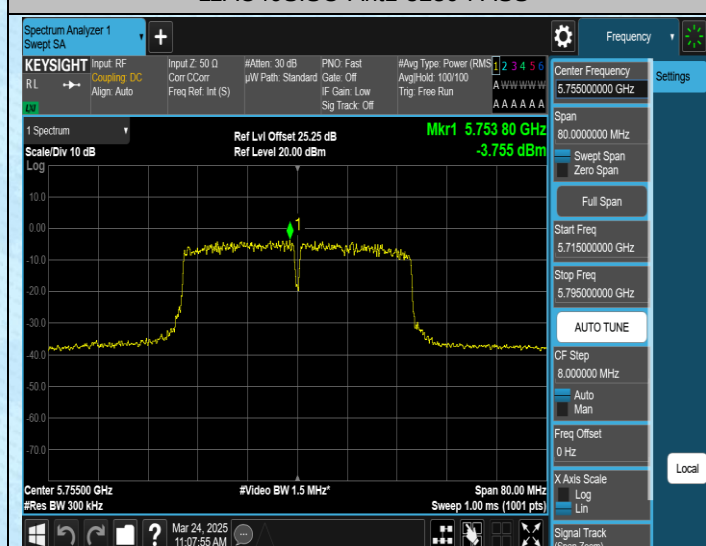
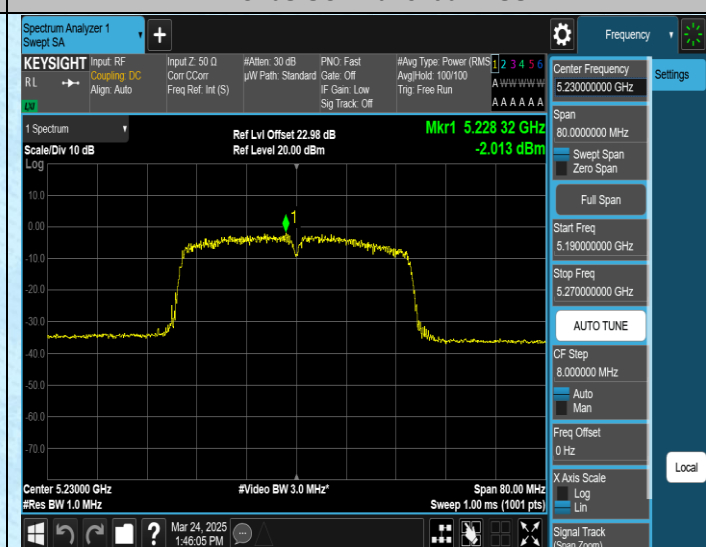
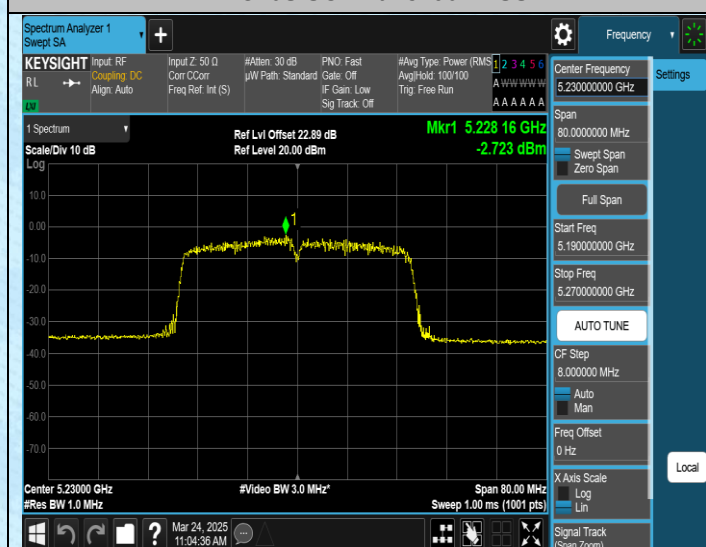
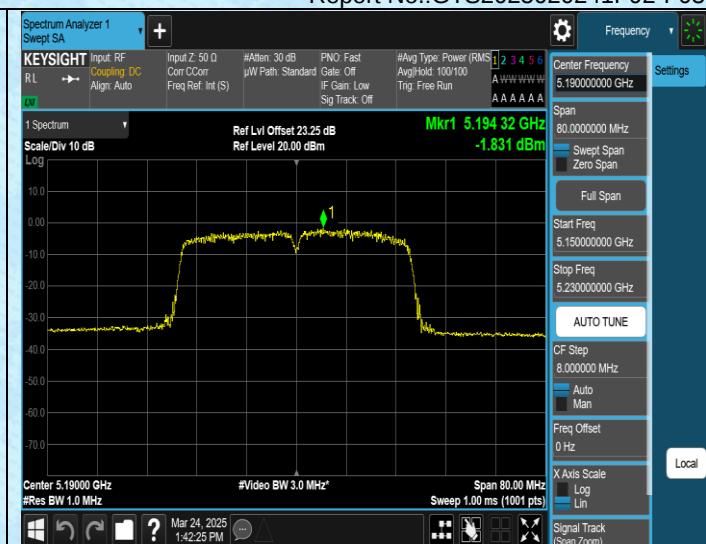
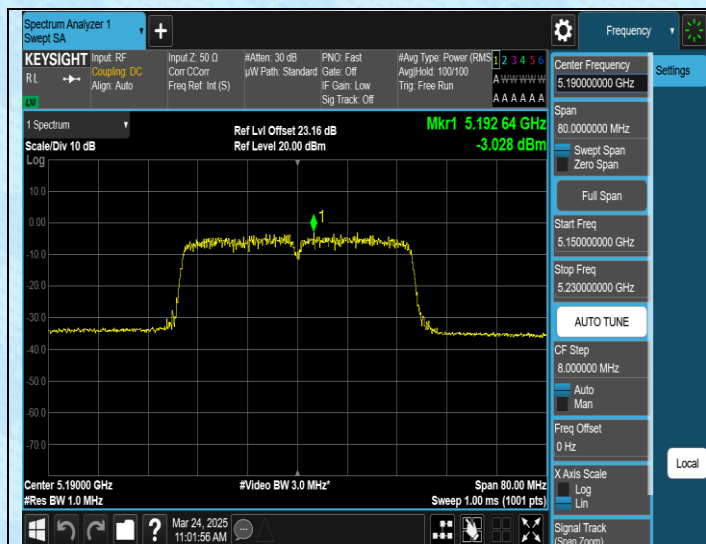
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Directiona gain = GAnt + Array Gain=4.37+0=4.37

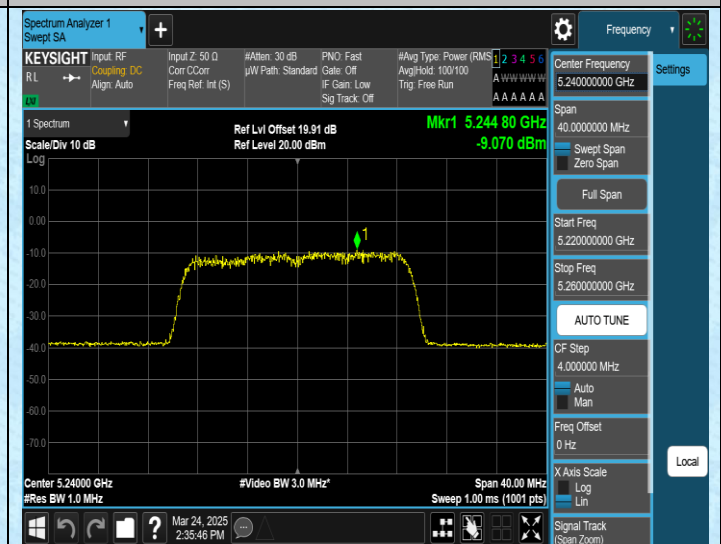
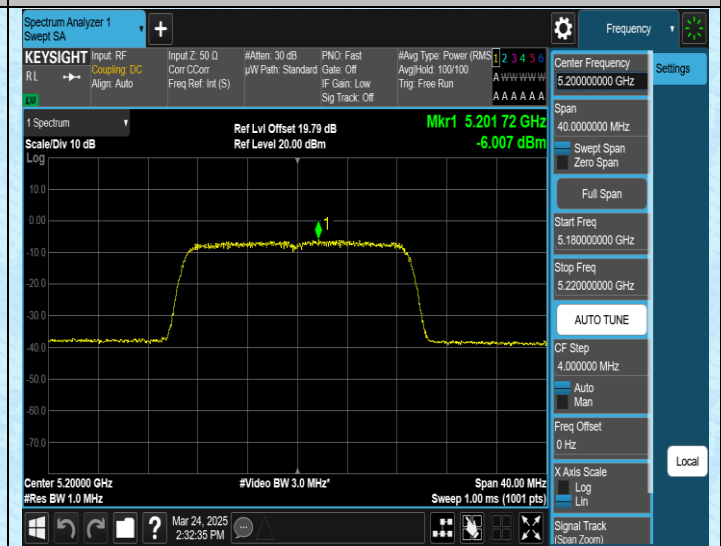
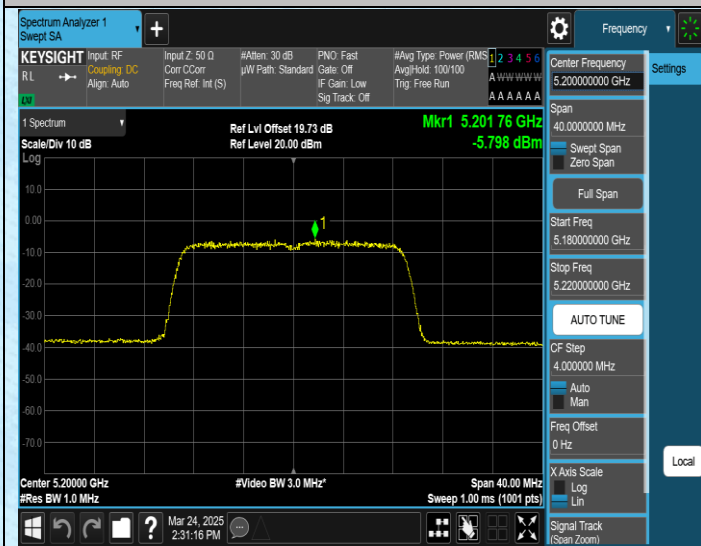
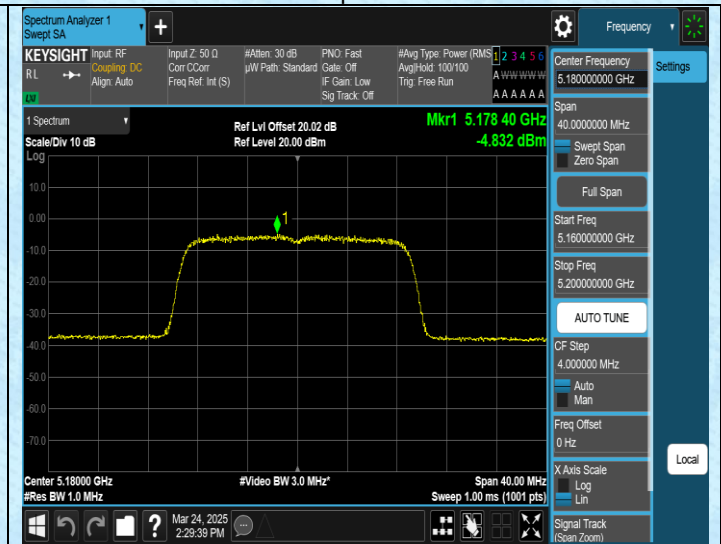
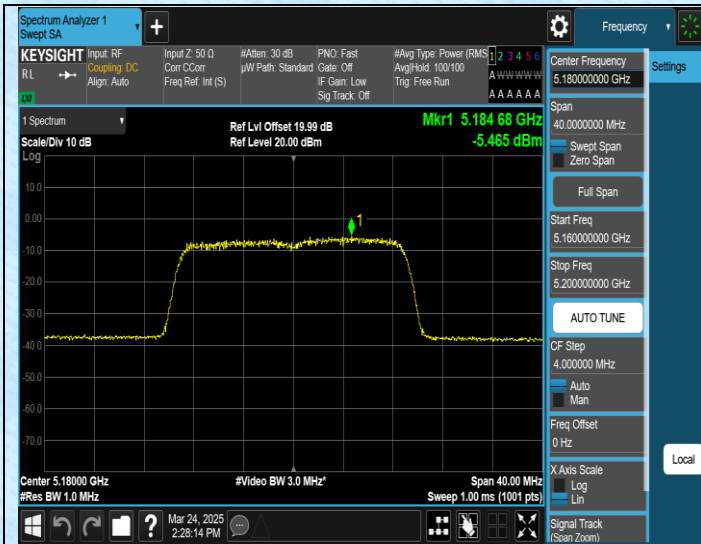
Test Graphs

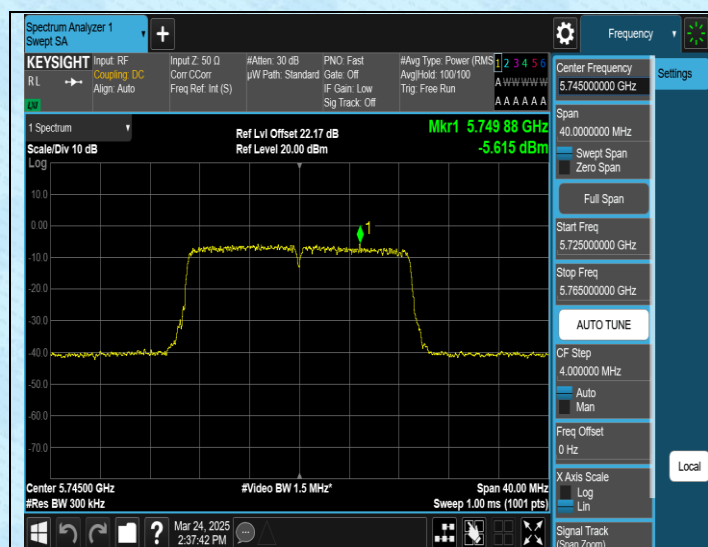








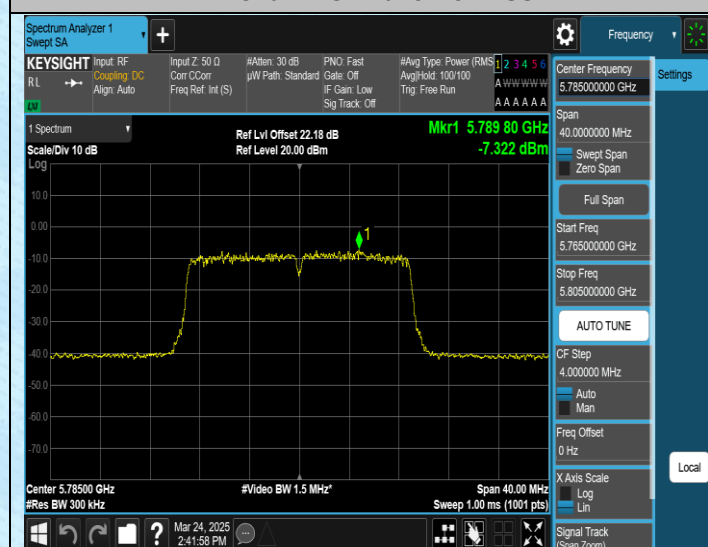




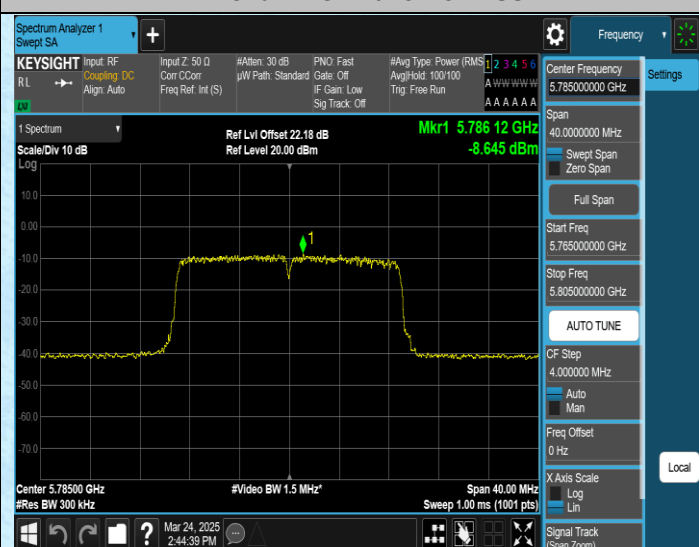
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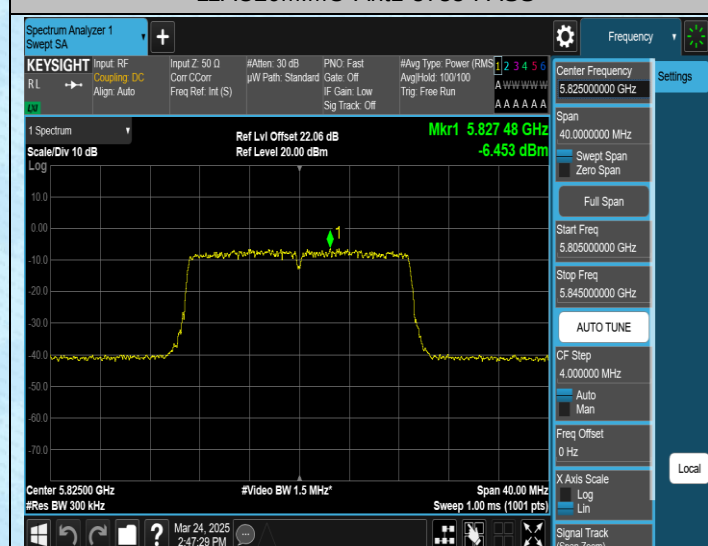
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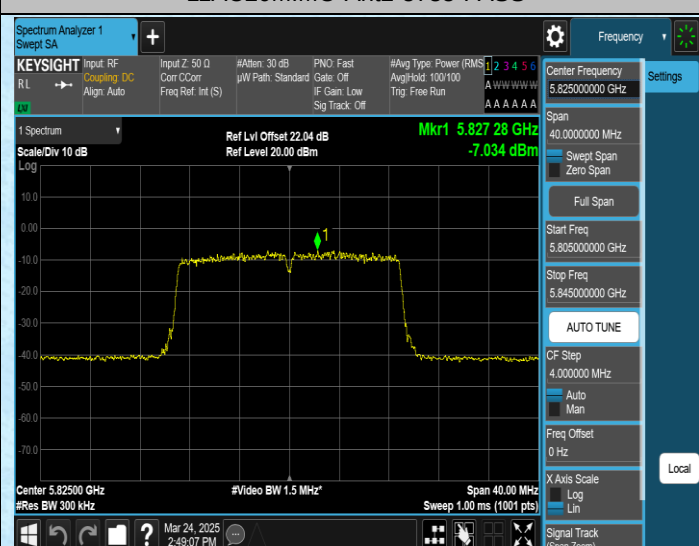
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11AC20MIMO-Ant2-5785-PASS



11AC20MIMO-Ant1-5825-PASS



11AC20MIMO-Ant2-5825-PASS





-----End-----