

Appendix A: Test Results of 5GHz Wi-Fi

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Appendix A.1: Test Results of 26dB Bandwidth

Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	22.920	5168.320	5191.240	---	PASS
		5200	22.600	5188.520	5211.120	---	PASS
		5240	22.760	5228.240	5251.000	---	PASS
		5260	23.320	5247.440	5270.760	---	PASS
		5280	23.440	5267.840	5291.280	---	PASS
		5320	23.480	5307.840	5331.320	---	PASS
		5500	24.000	5488.240	5512.240	---	PASS
		5580	24.360	5567.800	5592.160	---	PASS
11N20SISO	Ant1	5700	24.000	5687.880	5711.880	---	PASS
		5180	23.200	5169.080	5192.280	---	PASS
		5200	22.480	5188.240	5210.720	---	PASS
		5240	24.440	5227.640	5252.080	---	PASS
		5260	23.480	5247.320	5270.800	---	PASS
		5280	24.760	5267.360	5292.120	---	PASS
		5320	25.320	5307.200	5332.520	---	PASS
		5500	24.200	5488.320	5512.520	---	PASS
11N40SISO	Ant1	5580	22.680	5568.440	5591.120	---	PASS
		5700	25.640	5687.160	5712.800	---	PASS
		5190	42.320	5169.040	5211.360	---	PASS
		5230	41.760	5209.680	5251.440	---	PASS
		5270	44.880	5246.720	5291.600	---	PASS
		5310	43.120	5287.600	5330.720	---	PASS
		5510	44.080	5488.080	5532.160	---	PASS
		5550	43.440	5528.800	5572.240	---	PASS
11AC20SISO	Ant1	5670	44.320	5647.280	5691.600	---	PASS
		5180	20.960	5169.720	5190.680	---	PASS
		5200	23.200	5188.400	5211.600	---	PASS
		5240	24.200	5228.040	5252.240	---	PASS
		5260	25.920	5246.520	5272.440	---	PASS
		5280	23.320	5267.840	5291.160	---	PASS
		5320	22.640	5308.880	5331.520	---	PASS
		5500	23.480	5488.040	5511.520	---	PASS
11AC40SISO	Ant1	5580	25.400	5566.880	5592.280	---	PASS
		5700	23.560	5688.120	5711.680	---	PASS
		5190	42.800	5167.840	5210.640	---	PASS
		5230	44.960	5208.240	5253.200	---	PASS
		5270	44.880	5247.920	5292.800	---	PASS
		5310	45.040	5286.640	5331.680	---	PASS
		5510	45.040	5486.800	5531.840	---	PASS
		5550	44.960	5527.360	5572.320	---	PASS
11AX20SISO	Ant1	5670	46.240	5645.440	5691.680	---	PASS
		5180	19.640	5170.200	5189.840	---	PASS
		5200	20.960	5190.160	5211.120	---	PASS
		5240	23.560	5228.040	5251.600	---	PASS
		5260	22.160	5248.800	5270.960	---	PASS
		5280	24.640	5267.800	5292.440	---	PASS
		5320	21.720	5309.080	5330.800	---	PASS
		5500	21.720	5488.840	5510.560	---	PASS
11AX40SISO	Ant1	5580	23.560	5568.760	5592.320	---	PASS
		5700	21.960	5689.320	5711.280	---	PASS
		5190	43.600	5168.560	5212.160	---	PASS
		5230	41.600	5208.720	5250.320	---	PASS
		5270	42.000	5248.880	5290.880	---	PASS
		5310	43.760	5287.680	5331.440	---	PASS
		5510	44.640	5487.920	5532.560	---	PASS
		5550	43.760	5527.680	5571.440	---	PASS
11AX40SISO	Ant1	5670	43.520	5647.520	5691.040	---	PASS

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240





















11AC20SISO Ant1 5320



11AC20SISO Ant1 5500



11AC20SISO Ant1 5580

















11AX40SISO Ant1 5670



Appendix A.2: Test Results of 99% Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.181	5171.4430	5188.6240	---	PASS
		5200	16.831	5191.5975	5208.4285	---	PASS
		5240	16.828	5231.5490	5248.3770	---	PASS
		5260	16.840	5251.5922	5268.4322	---	PASS
		5280	16.774	5271.5794	5288.3534	---	PASS
		5320	16.839	5311.5063	5328.3453	---	PASS
		5500	16.913	5491.4251	5508.3381	---	PASS
		5580	16.946	5571.5537	5588.4997	---	PASS
		5700	17.262	5691.3067	5708.5687	---	PASS
		5745	16.885	5736.4915	5753.3765	---	PASS
		5785	17.014	5776.5208	5793.5348	---	PASS
		5825	17.122	5816.4376	5833.5596	---	PASS
11N20SISO	Ant1	5180	17.967	5171.0287	5188.9957	---	PASS
		5200	17.969	5191.0447	5209.0137	---	PASS
		5240	18.003	5230.9396	5248.9426	---	PASS
		5260	17.948	5250.9303	5268.8783	---	PASS
		5280	17.973	5270.9208	5288.8938	---	PASS
		5320	17.985	5310.9840	5328.9690	---	PASS
		5500	18.092	5490.8592	5508.9512	---	PASS
		5580	18.319	5570.7949	5589.1139	---	PASS
		5700	18.026	5690.8694	5708.8954	---	PASS
		5745	18.061	5735.8502	5753.9112	---	PASS
		5785	18.252	5775.7593	5794.0113	---	PASS
		5825	18.126	5815.8347	5833.9607	---	PASS
11N40SISO	Ant1	5190	36.573	5171.6160	5208.1890	---	PASS
		5230	36.685	5211.5866	5248.2716	---	PASS
		5270	36.379	5251.6998	5288.0788	---	PASS
		5310	36.432	5291.8383	5328.2703	---	PASS
		5510	36.513	5491.7994	5528.3124	---	PASS
		5550	36.768	5531.7585	5568.5265	---	PASS
		5670	36.636	5651.5984	5688.2344	---	PASS
		5755	36.661	5736.6516	5773.3126	---	PASS
11AC20SISO	Ant1	5795	36.693	5776.5930	5813.2860	---	PASS
		5180	18.055	5170.9460	5189.0010	---	PASS
		5200	18.121	5190.8711	5208.9921	---	PASS
		5240	18.042	5231.0280	5249.0700	---	PASS
		5260	17.973	5251.0151	5268.9881	---	PASS
		5280	18.023	5270.8657	5288.8887	---	PASS
		5320	18.020	5310.9182	5328.9382	---	PASS
		5500	18.042	5490.9446	5508.9866	---	PASS
		5580	17.930	5571.0434	5588.9734	---	PASS
		5700	18.227	5690.8126	5709.0396	---	PASS
		5745	18.210	5735.7496	5753.9596	---	PASS
		5785	18.215	5775.8327	5794.0477	---	PASS
11AC40SISO	Ant1	5825	18.254	5815.7405	5833.9945	---	PASS
		5190	36.409	5171.7550	5208.1640	---	PASS
		5230	36.341	5211.7677	5248.1087	---	PASS
		5270	36.499	5251.6011	5288.1001	---	PASS
		5310	36.332	5291.7889	5328.1209	---	PASS
		5510	36.695	5491.6462	5528.3412	---	PASS
		5550	36.690	5531.6767	5568.3667	---	PASS
		5670	36.727	5651.6840	5688.4110	---	PASS
11AX20SISO	Ant1	5755	36.595	5736.6536	5773.2486	---	PASS
		5795	36.773	5776.4933	5813.2663	---	PASS
		5180	19.114	5170.4674	5189.5814	---	PASS
		5200	18.929	5190.4976	5209.4266	---	PASS
		5240	19.005	5230.4315	5249.4365	---	PASS

		5260	19.014	5250.4220	5269.4360	---	PASS
		5280	18.970	5270.4410	5289.4110	---	PASS
		5320	19.030	5310.4383	5329.4683	---	PASS
		5500	19.098	5490.4176	5509.5156	---	PASS
		5580	19.083	5570.4213	5589.5043	---	PASS
		5700	19.236	5690.2663	5709.5023	---	PASS
		5745	19.024	5735.4162	5754.4402	---	PASS
		5785	19.389	5775.1543	5794.5433	---	PASS
11AX40SISO	Ant1	5825	19.196	5815.3280	5834.5240	---	PASS
		5190	37.825	5171.0744	5208.8994	---	PASS
		5230	37.849	5211.1152	5248.9642	---	PASS
		5270	37.932	5250.9653	5288.8973	---	PASS
		5310	37.994	5290.9412	5328.9352	---	PASS
		5510	38.021	5490.9679	5528.9889	---	PASS
		5550	38.047	5530.9462	5568.9932	---	PASS
		5670	38.216	5650.8317	5689.0477	---	PASS
		5755	38.131	5735.9307	5774.0617	---	PASS
		5795	38.191	5775.9102	5814.1012	---	PASS

Test Graphs

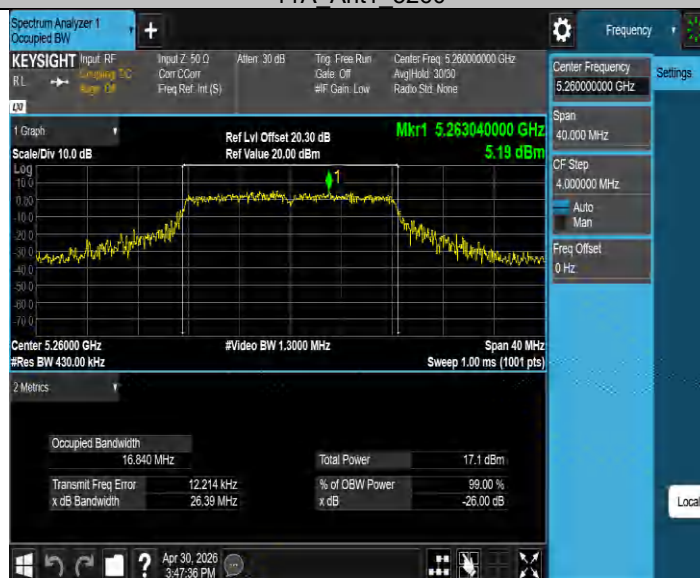
11A_Ant1_5180



11A_Ant1_5200

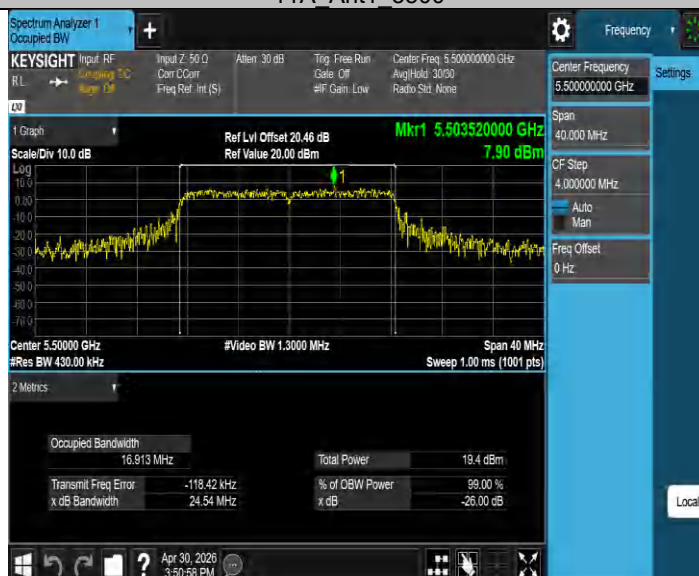


11A_Ant1_5240





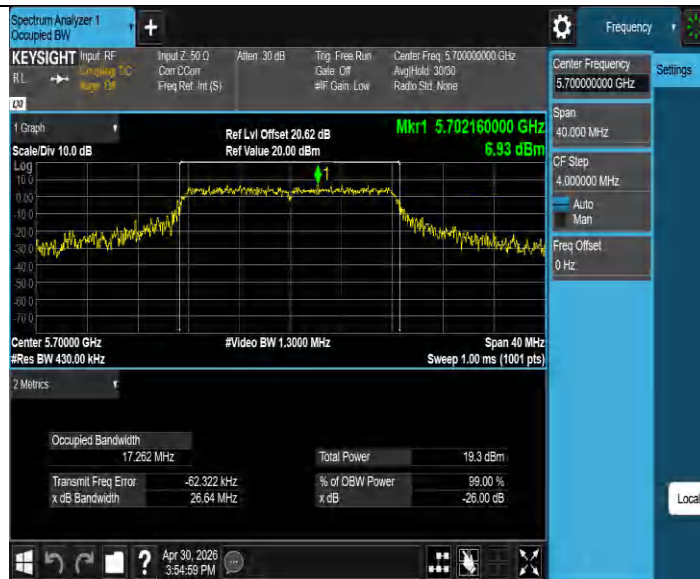
11A Ant1 5500

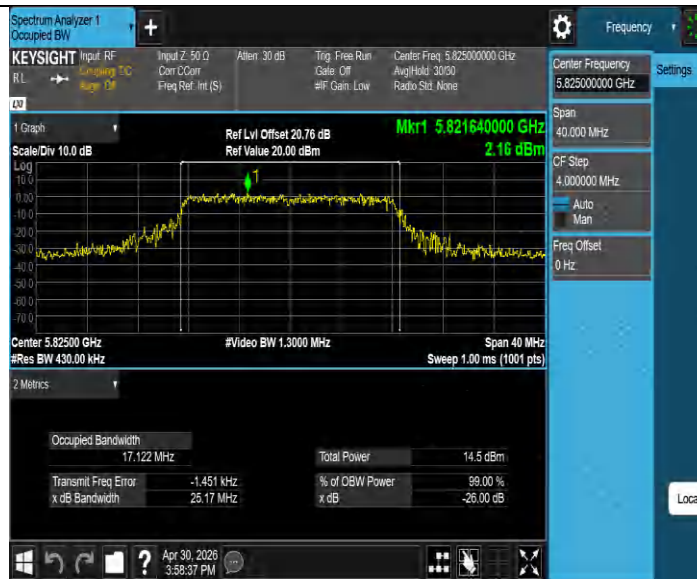


11A Ant1 5580



11A Ant1 5700







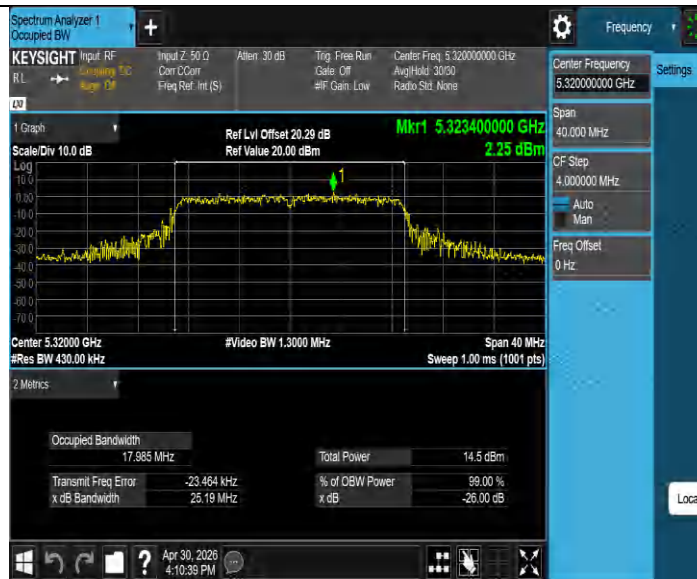
11N20SISO Ant1 5260



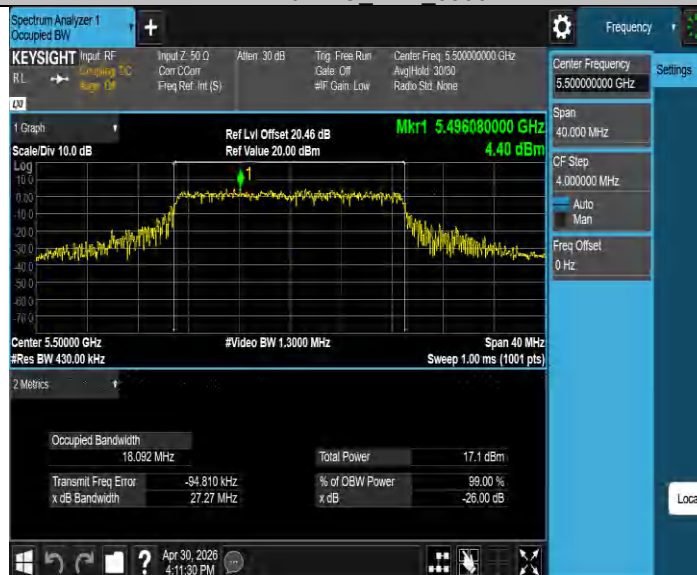
11N20SISO Ant1 5280



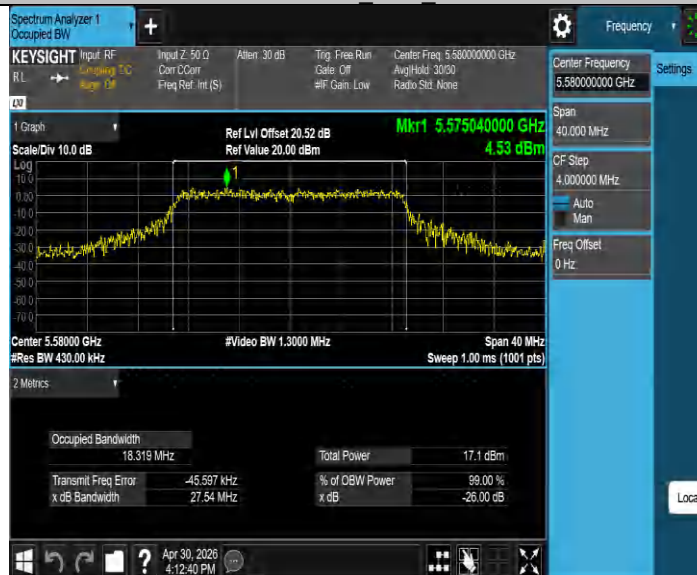
11N20SISO Ant1 5320



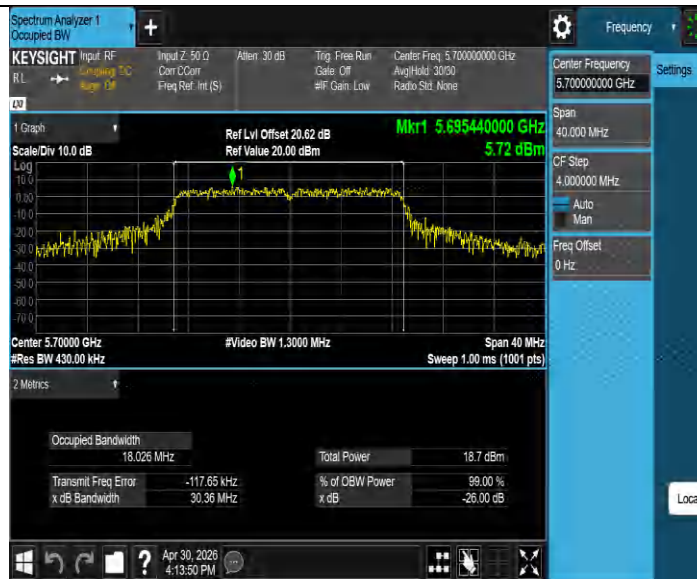
11N20SISO Ant1 5500



11N20SISO Ant1 5580



11N20SISO Ant1 5700





11N40SISO Ant1 5190



11N40SISO Ant1 5230



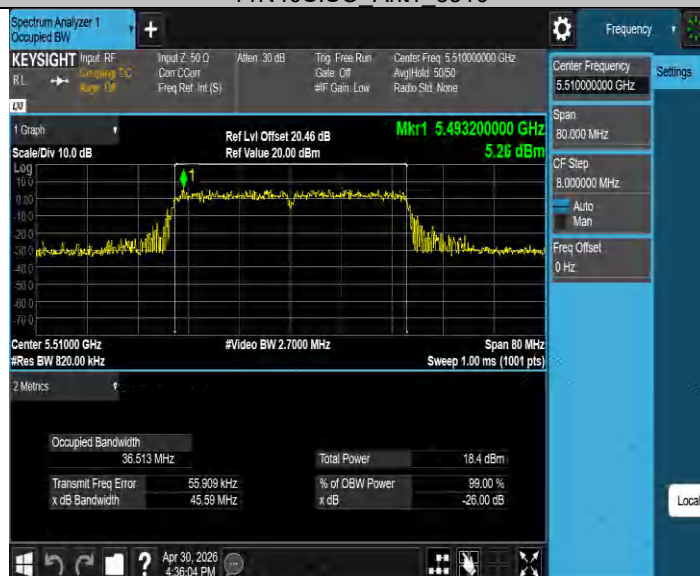
11N40SISO Ant1 5270



11N40SISO Ant1 5310



11N40SISO Ant1 5510



11N40SISO Ant1 5550

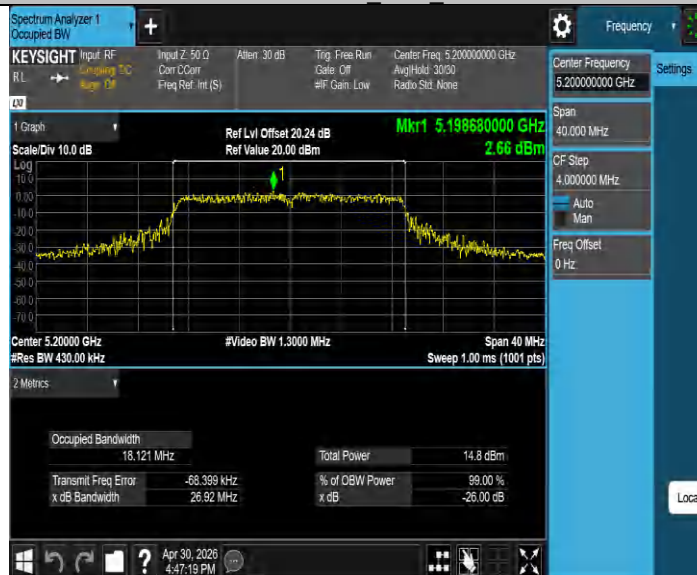




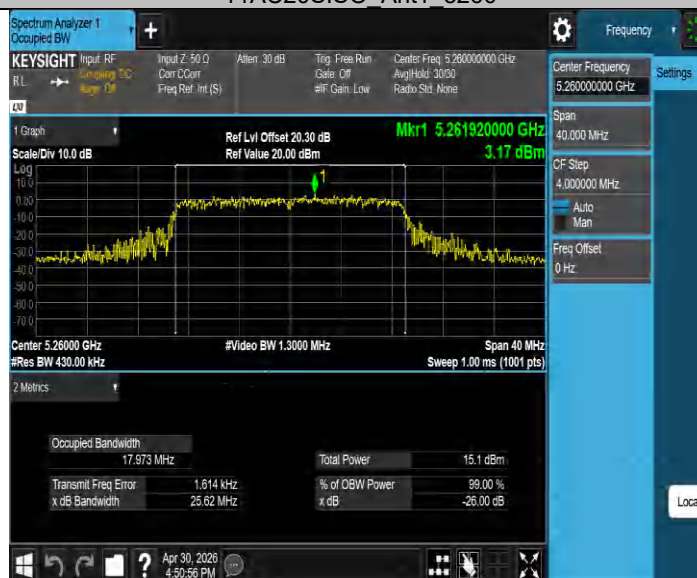
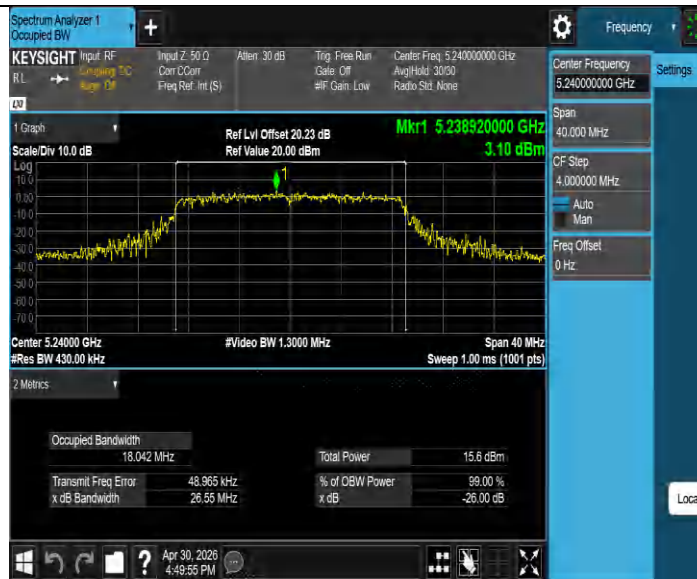
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200

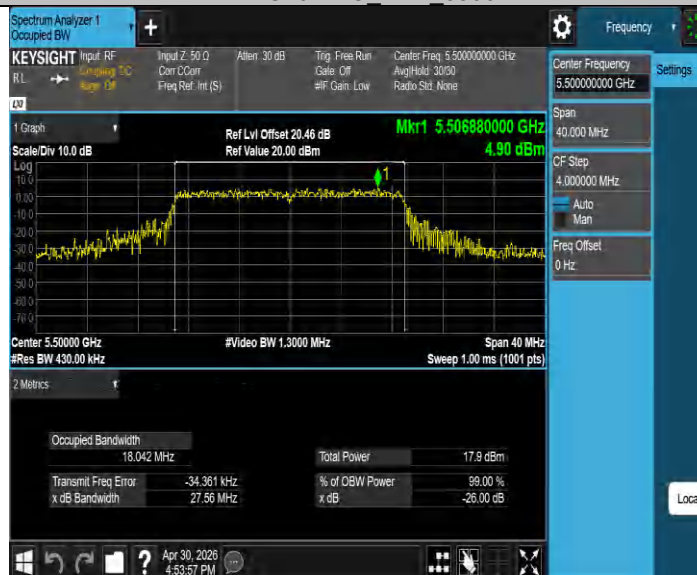


11AC20SISO_Ant1_5240





11AC20SISO_Ant1_5500



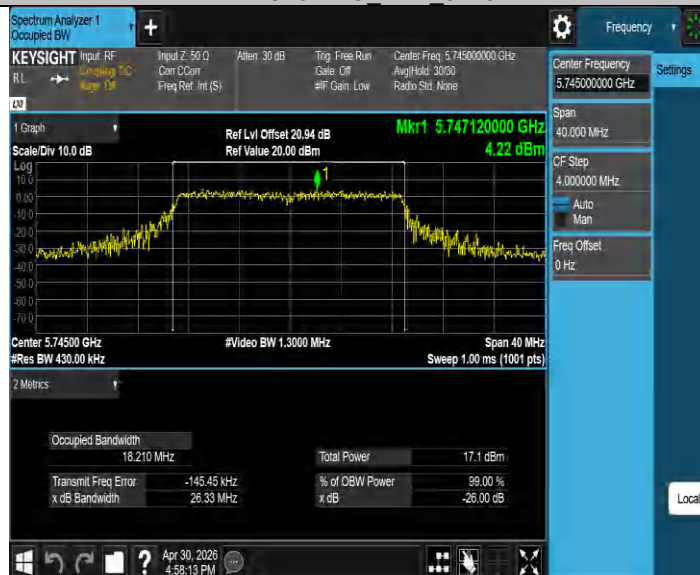
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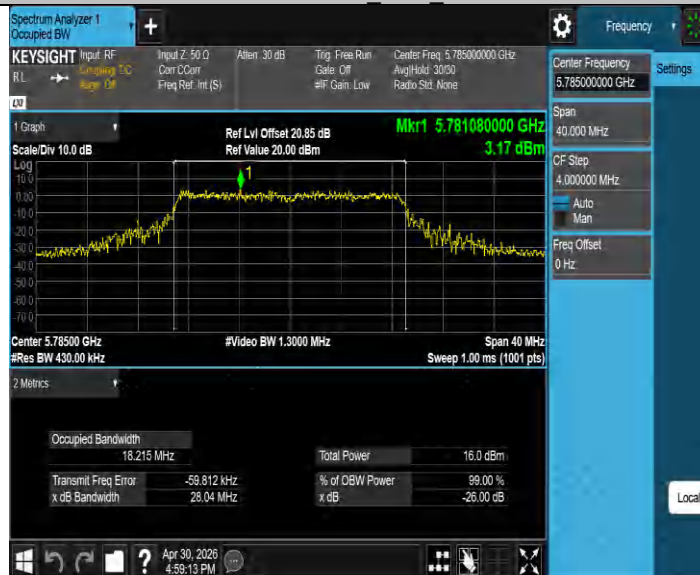
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11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO Ant1 5190



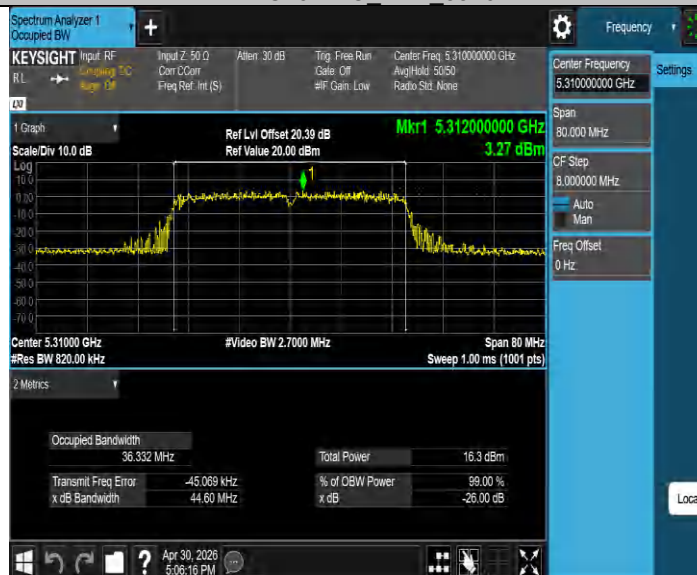
11AC40SISO Ant1 5230



11AC40SISO Ant1 5270



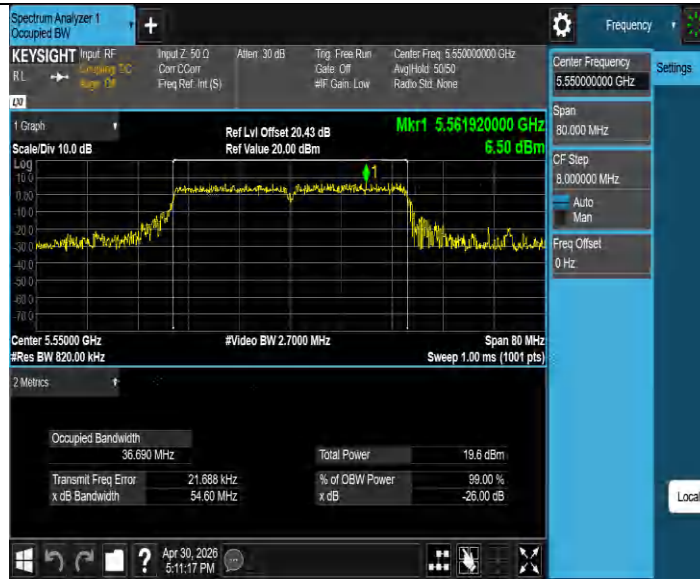
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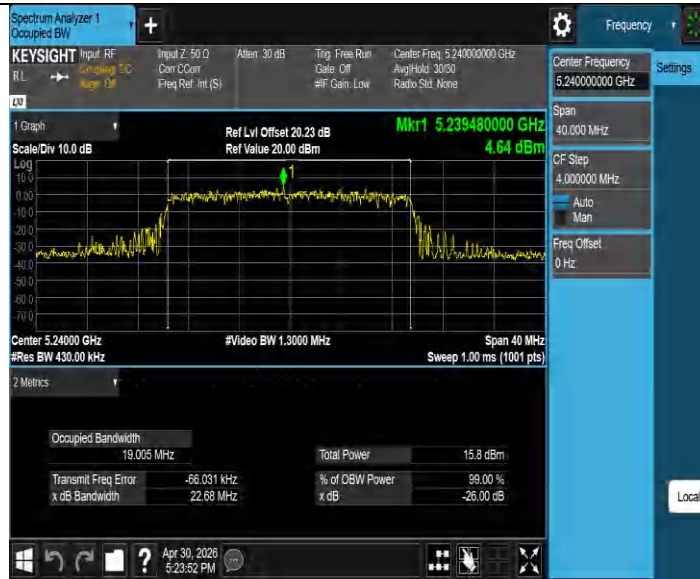
11AC40SISO_Ant1_5510



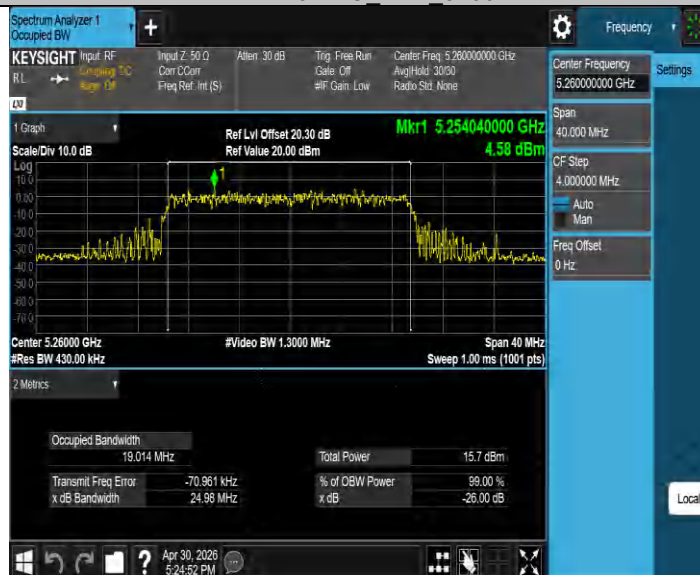
11AC40SISO_Ant1_5550



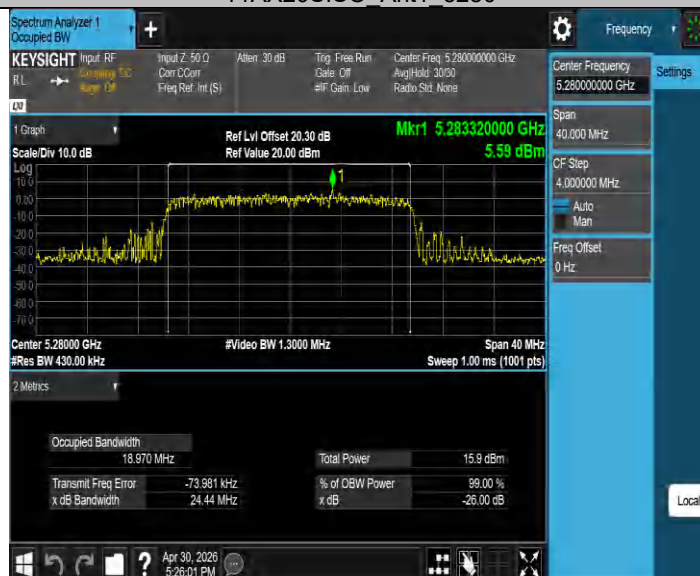




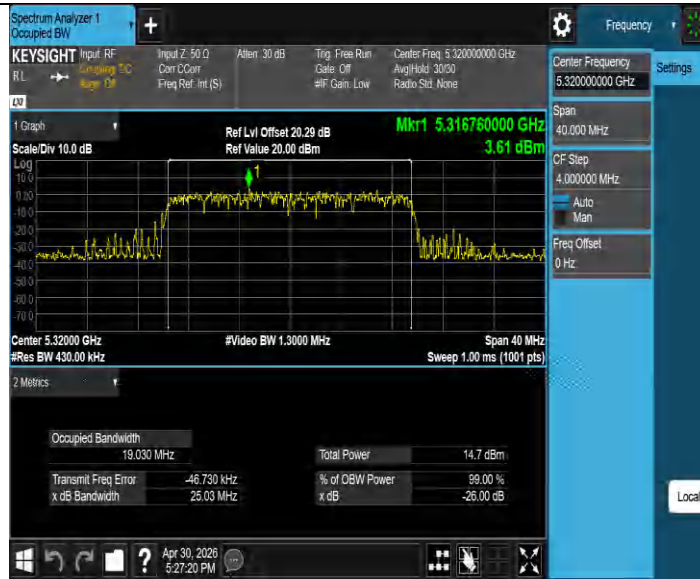
11AX20SISO_Ant1_5260



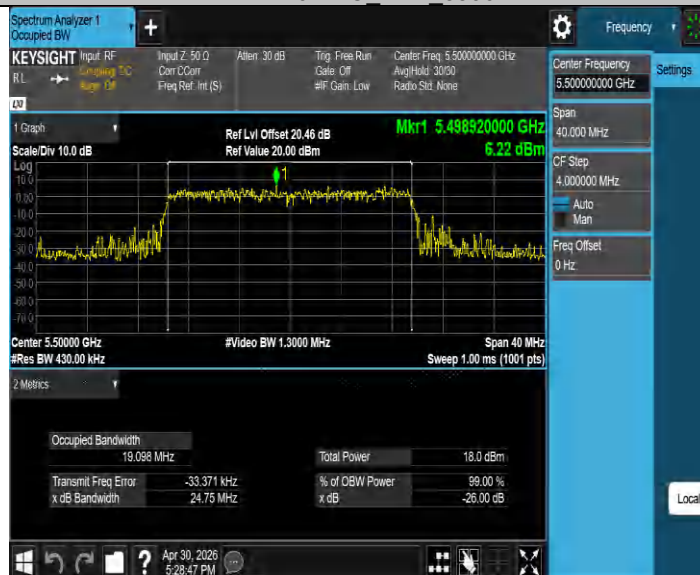
11AX20SISO_Ant1_5280



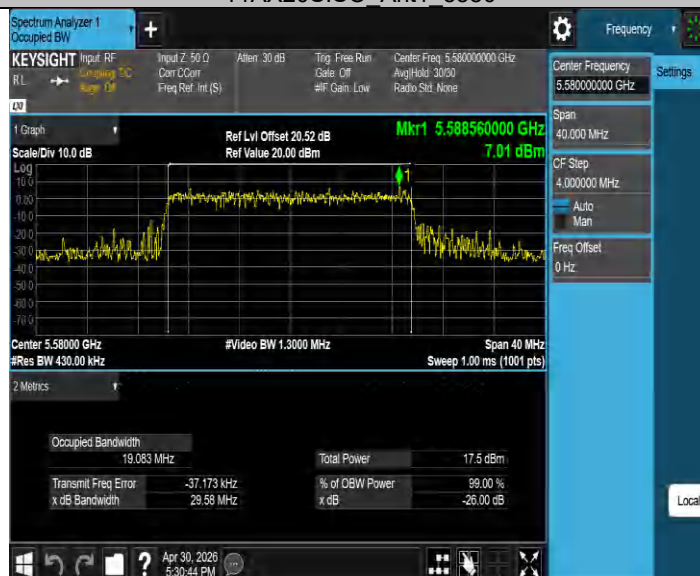
11AX20SISO_Ant1_5320



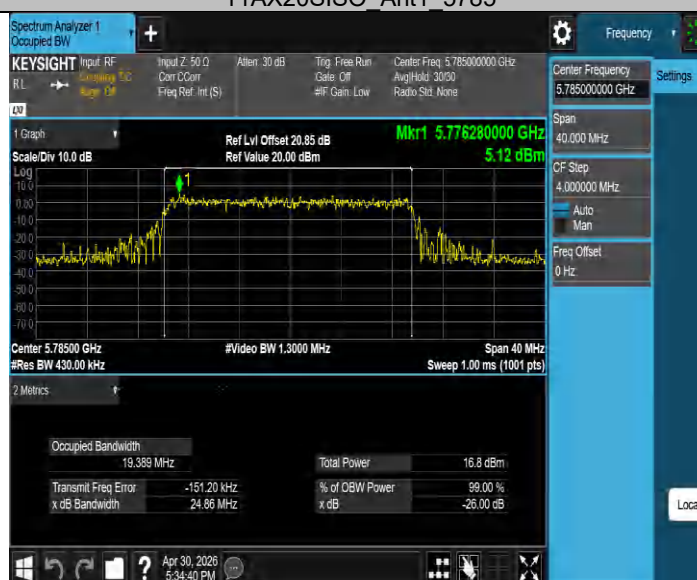
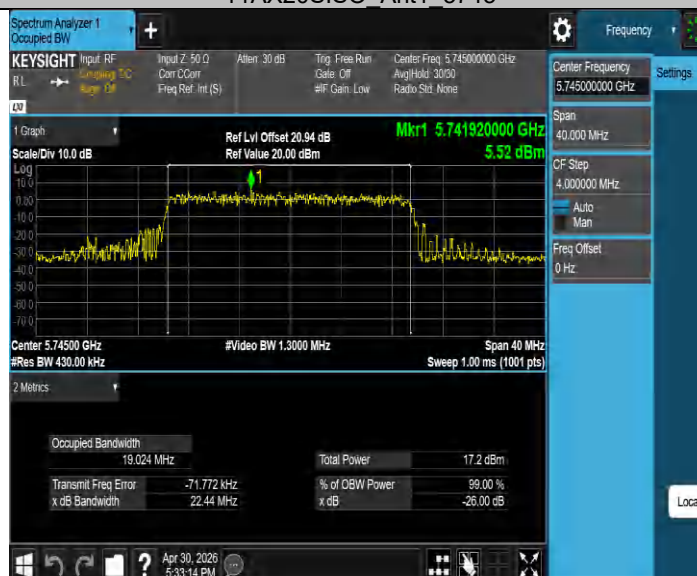
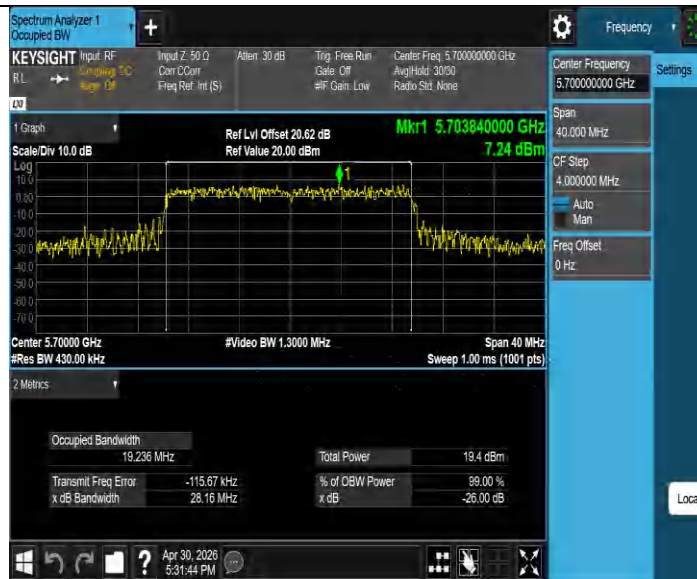
11AX20SISO_Ant1_5500

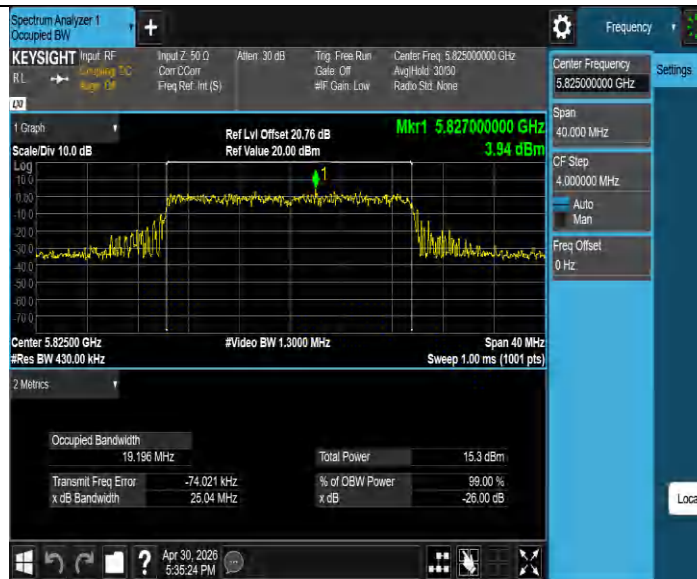


11AX20SISO_Ant1_5580

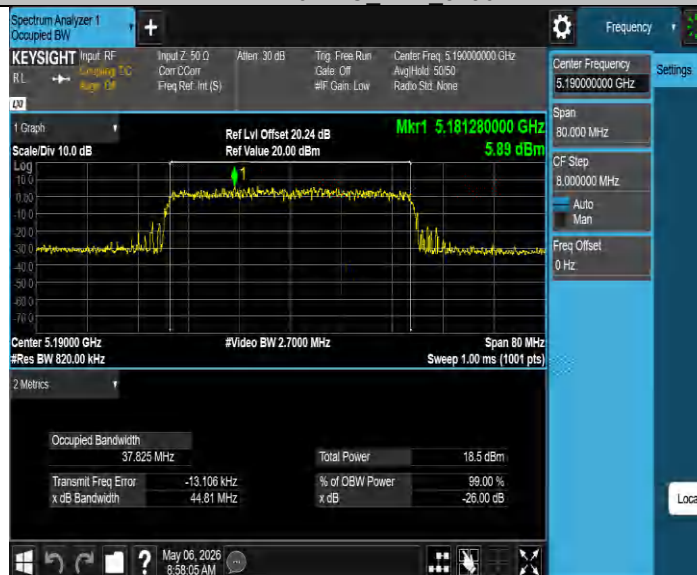


11AX20SISO_Ant1_5700

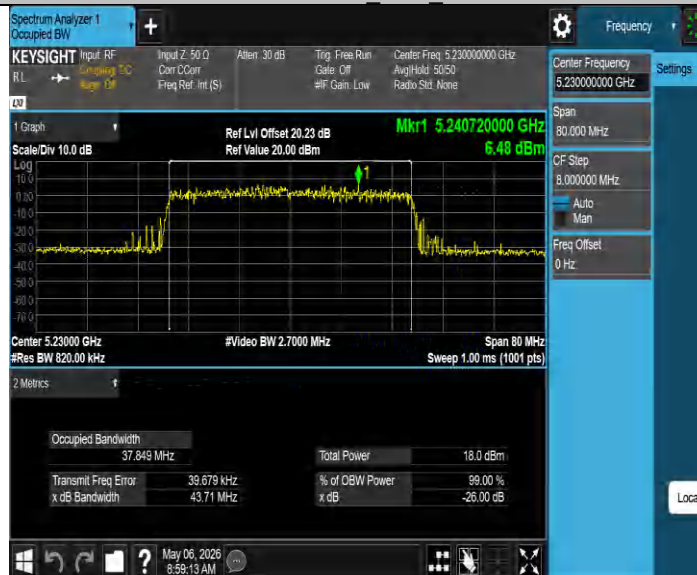




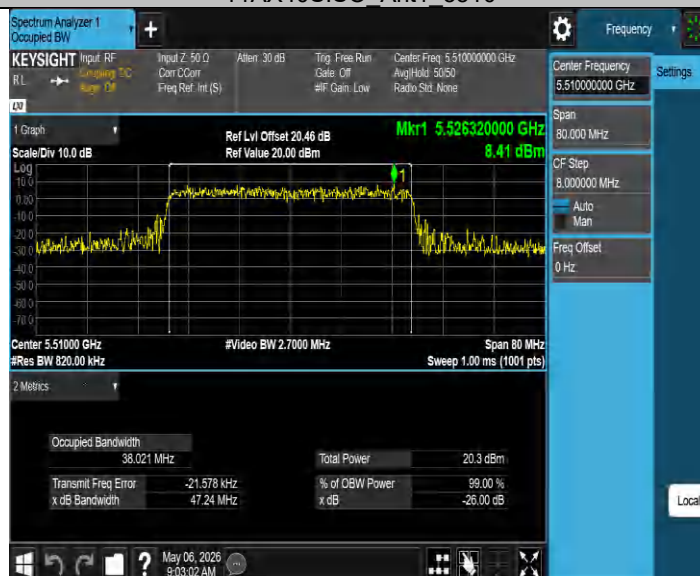
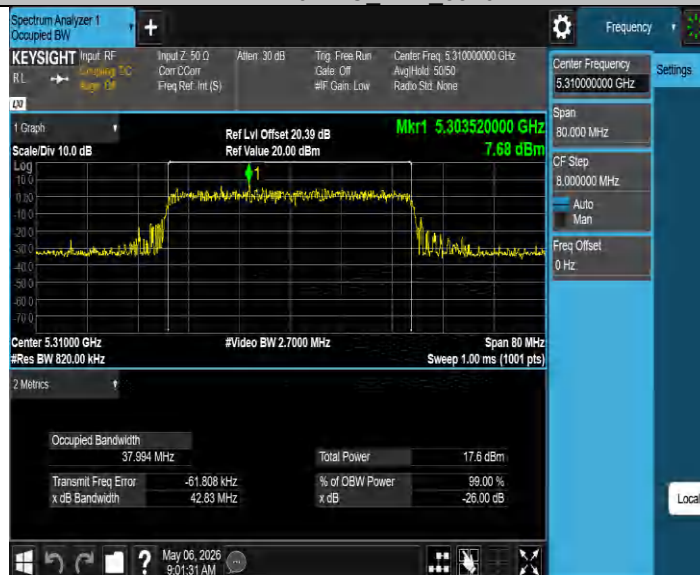
11AX40SISO_Ant1_5190

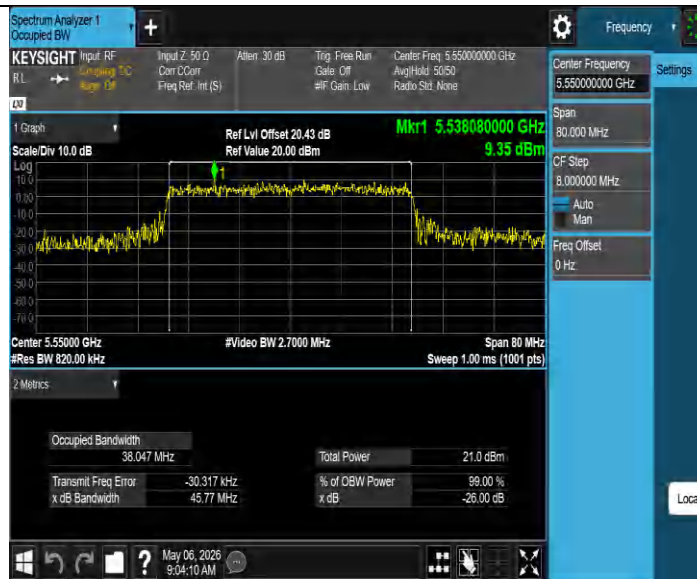


11AX40SISO_Ant1_5230

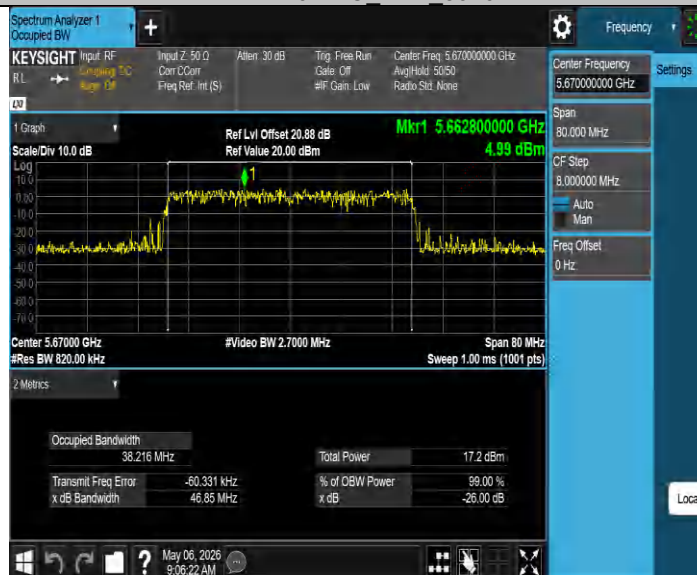


11AX40SISO_Ant1_5270





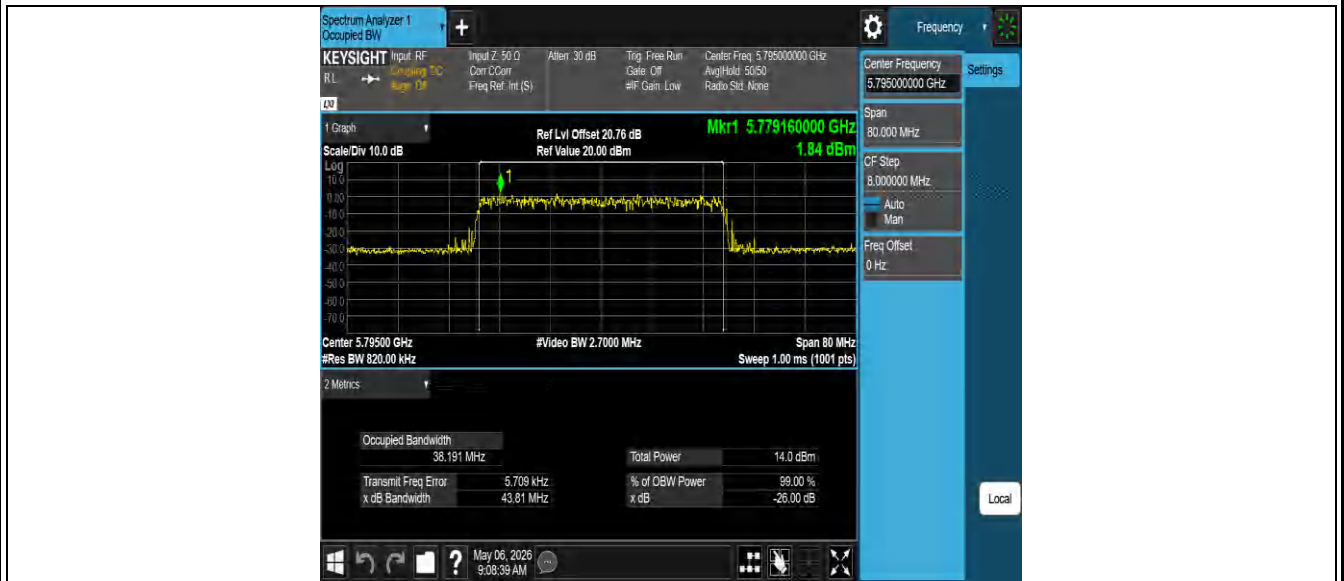
11AX40SISO_Ant1_5670



11AX40SISO_Ant1_5755



11AX40SISO_Ant1_5795



Appendix A.3: Test Results of 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.520	5736.680	5753.200	0.5	PASS
		5785	16.360	5776.680	5793.040	0.5	PASS
		5825	16.240	5816.880	5833.120	0.5	PASS
11N20SISO	Ant1	5745	17.600	5736.160	5753.760	0.5	PASS
		5785	17.720	5776.120	5793.840	0.5	PASS
		5825	17.720	5816.080	5833.800	0.5	PASS
11N40SISO	Ant1	5755	36.160	5736.760	5772.920	0.5	PASS
		5795	36.320	5776.760	5813.080	0.5	PASS
11AC20SISO	Ant1	5745	17.720	5736.080	5753.800	0.5	PASS
		5785	17.600	5776.120	5793.720	0.5	PASS
		5825	17.720	5816.120	5833.840	0.5	PASS
11AC40SISO	Ant1	5755	35.680	5737.400	5773.080	0.5	PASS
		5795	36.320	5776.680	5813.000	0.5	PASS
11AX20SISO	Ant1	5745	19.040	5735.440	5754.480	0.5	PASS
		5785	18.840	5775.520	5794.360	0.5	PASS
		5825	19.040	5815.400	5834.440	0.5	PASS
11AX40SISO	Ant1	5755	38.080	5735.880	5773.960	0.5	PASS
		5795	37.840	5775.960	5813.800	0.5	PASS

Test Graphs

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO Ant1 5745



11N20SISO Ant1 5785



11N20SISO Ant1 5825



11N40SISO Ant1 5755



11N40SISO Ant1 5795



11AC20SISO Ant1 5745





11AX20SISO Ant1 5785





Appendix A.4: Test Results of Maximum Output Power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	15.56	≤23.98	PASS
		5200	14.18	≤23.98	PASS
		5240	14.67	≤23.98	PASS
		5260	14.70	≤23.98	PASS
		5280	14.79	≤23.98	PASS
		5320	14.93	≤23.98	PASS
		5500	14.01	≤23.98	PASS
		5580	13.11	≤23.98	PASS
		5700	15.23	≤23.98	PASS
		5745	15.12	≤30.00	PASS
		5785	14.20	≤30.00	PASS
11N20SISO	Ant1	5825	14.14	≤30.00	PASS
		5180	14.81	≤23.98	PASS
		5200	14.06	≤23.98	PASS
		5240	14.44	≤23.98	PASS
		5260	14.60	≤23.98	PASS
		5280	14.61	≤23.98	PASS
		5320	15.42	≤23.98	PASS
		5500	13.96	≤23.98	PASS
		5580	13.05	≤23.98	PASS
		5700	15.22	≤23.98	PASS
		5745	15.09	≤30.00	PASS
11N40SISO	Ant1	5785	14.16	≤30.00	PASS
		5825	13.52	≤30.00	PASS
		5190	15.13	≤23.98	PASS
		5230	14.64	≤23.98	PASS
		5270	14.87	≤23.98	PASS
		5310	15.09	≤23.98	PASS
		5510	14.31	≤23.98	PASS
		5550	14.59	≤23.98	PASS
		5670	15.18	≤23.98	PASS
		5755	15.14	≤30.00	PASS
		5795	14.29	≤30.00	PASS
11AC20SISO	Ant1	5180	15.51	≤23.98	PASS
		5200	14.69	≤23.98	PASS
		5240	14.59	≤23.98	PASS
		5260	15.21	≤23.98	PASS
		5280	14.74	≤23.98	PASS
		5320	14.87	≤23.98	PASS
		5500	14.70	≤23.98	PASS
		5580	13.13	≤23.98	PASS
		5700	14.66	≤23.98	PASS
		5745	15.52	≤30.00	PASS
		5785	14.28	≤30.00	PASS
11AC40SISO	Ant1	5825	14.18	≤30.00	PASS
		5190	15.20	≤23.98	PASS
		5230	14.86	≤23.98	PASS
		5270	14.88	≤23.98	PASS
		5310	15.11	≤23.98	PASS
		5510	14.42	≤23.98	PASS
		5550	15.23	≤23.98	PASS
		5670	15.24	≤23.98	PASS
		5755	15.18	≤30.00	PASS
		5795	14.30	≤30.00	PASS
11AX20SISO	Ant1	5180	14.69	≤23.98	PASS
		5200	14.48	≤23.98	PASS
		5240	14.41	≤23.98	PASS

		5260	14.47	≤23.98	PASS
		5280	14.55	≤23.98	PASS
		5320	15.23	≤23.98	PASS
		5500	14.51	≤23.98	PASS
		5580	13.60	≤23.98	PASS
		5700	14.98	≤23.98	PASS
		5745	14.98	≤30.00	PASS
		5785	14.64	≤30.00	PASS
		5825	13.95	≤30.00	PASS
11AX40SISO	Ant1	5190	15.14	≤23.98	PASS
		5230	15.08	≤23.98	PASS
		5270	14.83	≤23.98	PASS
		5310	15.06	≤23.98	PASS
		5510	14.28	≤23.98	PASS
		5550	14.64	≤23.98	PASS
		5670	15.15	≤23.98	PASS
		5755	15.48	≤30.00	PASS
		5795	14.15	≤30.00	PASS

U-NII 1: Max. e.i.r.p.= 15.56dBm+5.0dBi= 20.56dBm, which is less than 22.26dBm (10 dBm + 10 logB, dBm)

U-NII 2: Max. e.i.r.p.= 15.42dBm+5.0dBi= 20.42dBm, which is less than 29.54dBm (17 dBm + 10 logB, dBm)

Note:

- 1) The Duty Cycle Factor is compensated in the graph.
- 2) Antenna gain(G): 5.0dBi, e.i.r.p.=P(Conducted power)+ G
- 3) B is the 99% emission bandwidth in MHz