

Appendix Test Data

Report No.:	1812C40028712503	Test Sample No.:	1-2-2
Start Test Date:	2024.09.02	Finish Test Date:	2024.09.02
Test Engineer:	<i>Foker Huang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.3°C	Relative Humidity:	49%
Pressure:	101kPa		

Appendix A1: 26dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.400	5170.320	5189.720	---	---
11A	Ant2	5180	19.640	5170.240	5189.880	---	---
11A	Ant1	5200	19.640	5190.160	5209.800	---	---
11A	Ant2	5200	19.760	5190.040	5209.800	---	---
11A	Ant1	5240	19.680	5230.040	5249.720	---	---
11A	Ant2	5240	19.480	5230.280	5249.760	---	---
11N20MIMO	Ant1	5180	19.880	5169.880	5189.760	---	---
11N20MIMO	Ant2	5180	20.040	5169.960	5190.000	---	---
11N20MIMO	Ant1	5200	19.880	5189.960	5209.840	---	---
11N20MIMO	Ant2	5200	19.960	5189.920	5209.880	---	---
11N20MIMO	Ant1	5240	20.120	5229.960	5250.080	---	---
11N20MIMO	Ant2	5240	19.800	5230.080	5249.880	---	---
11N40MIMO	Ant1	5190	39.680	5170.240	5209.920	---	---
11N40MIMO	Ant2	5190	39.760	5170.080	5209.840	---	---
11N40MIMO	Ant1	5230	40.160	5209.760	5249.920	---	---
11N40MIMO	Ant2	5230	40.080	5210.000	5250.080	---	---
11AC20MIMO	Ant1	5180	19.640	5170.000	5189.640	---	---
11AC20MIMO	Ant2	5180	19.880	5170.120	5190.000	---	---
11AC20MIMO	Ant1	5200	19.720	5190.200	5209.920	---	---
11AC20MIMO	Ant2	5200	20.000	5190.000	5210.000	---	---
11AC20MIMO	Ant1	5240	20.200	5229.720	5249.920	---	---
11AC20MIMO	Ant2	5240	19.880	5230.080	5249.960	---	---

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11AC40MIMO	Ant1	5190	39.920	5170.080	5210.000	---	---
11AC40MIMO	Ant2	5190	40.080	5170.080	5210.160	---	---
11AC40MIMO	Ant1	5230	40.240	5209.840	5250.080	---	---
11AC40MIMO	Ant2	5230	40.000	5210.000	5250.000	---	---
11AC80MIMO	Ant1	5210	80.160	5170.160	5250.320	---	---
11AC80MIMO	Ant2	5210	80.000	5170.160	5250.160	---	---
11AX20MIMO	Ant1	5180	19.840	5170.040	5189.880	---	---
11AX20MIMO	Ant2	5180	19.720	5170.160	5189.880	---	---
11AX20MIMO	Ant1	5200	19.800	5190.080	5209.880	---	---
11AX20MIMO	Ant2	5200	19.880	5190.040	5209.920	---	---
11AX20MIMO	Ant1	5240	19.840	5230.080	5249.920	---	---
11AX20MIMO	Ant2	5240	19.840	5230.040	5249.880	---	---
11AX40MIMO	Ant1	5190	39.360	5170.320	5209.680	---	---
11AX40MIMO	Ant2	5190	39.440	5170.240	5209.680	---	---
11AX40MIMO	Ant1	5230	39.360	5210.240	5249.600	---	---
11AX40MIMO	Ant2	5230	39.520	5210.160	5249.680	---	---
11AX80MIMO	Ant1	5210	80.000	5170.160	5250.160	---	---
11AX80MIMO	Ant2	5210	80.320	5169.840	5250.160	---	---

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Test Graphs



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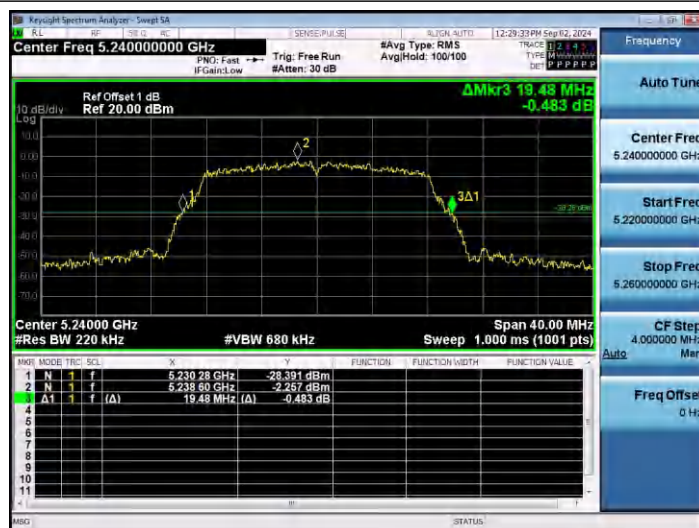




11A-Ant2-5200



11A-Ant1-5240



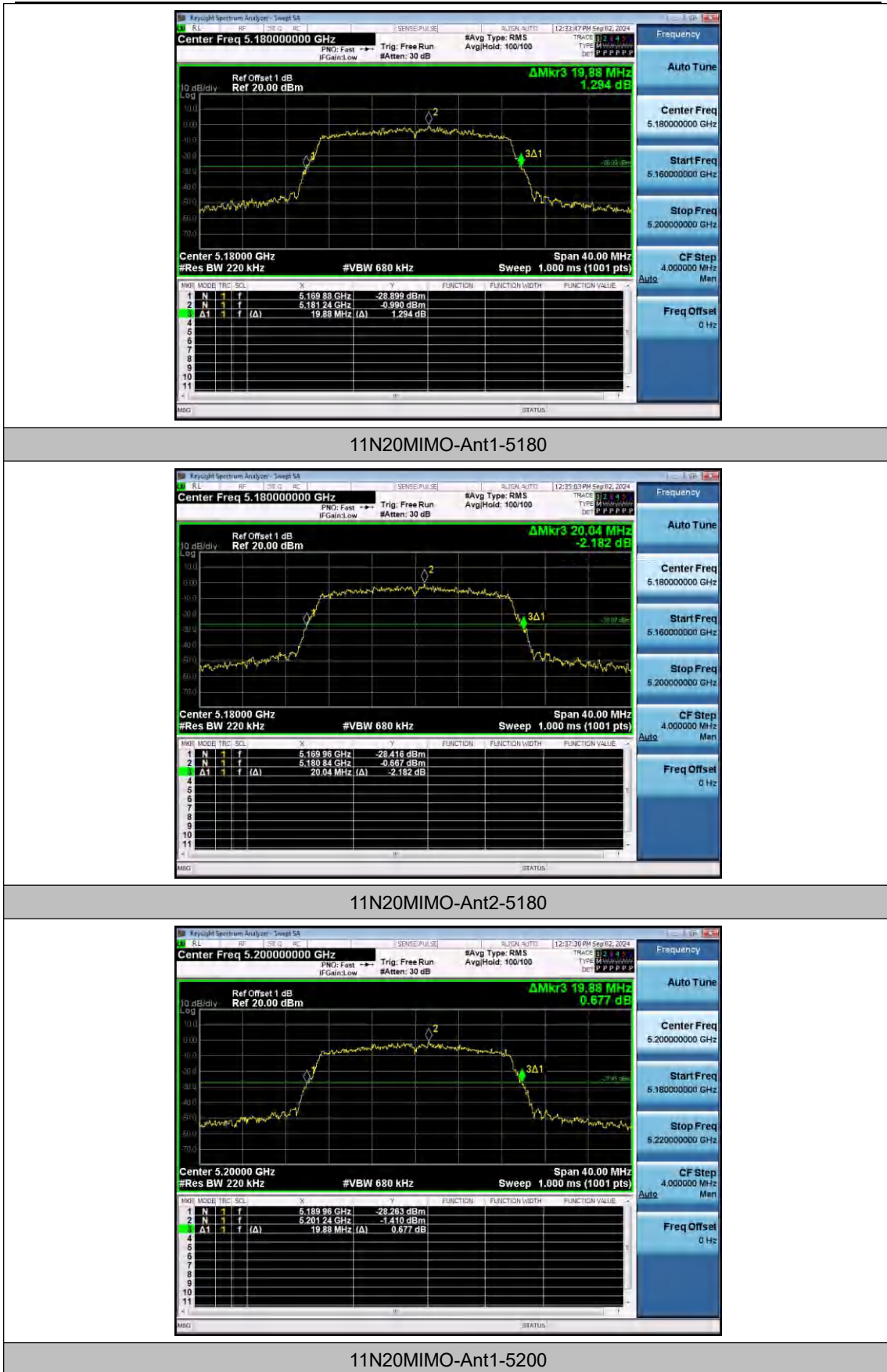
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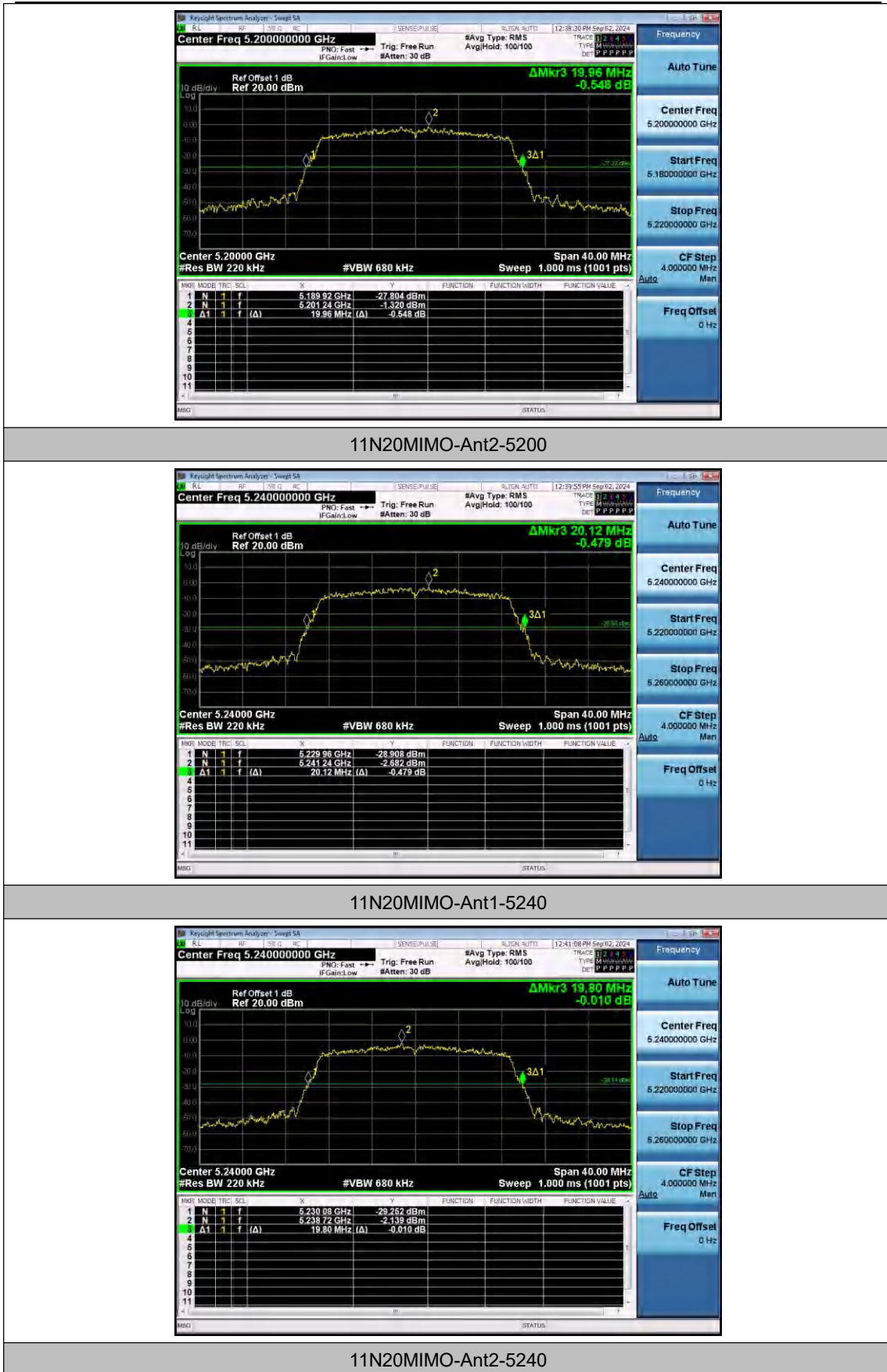


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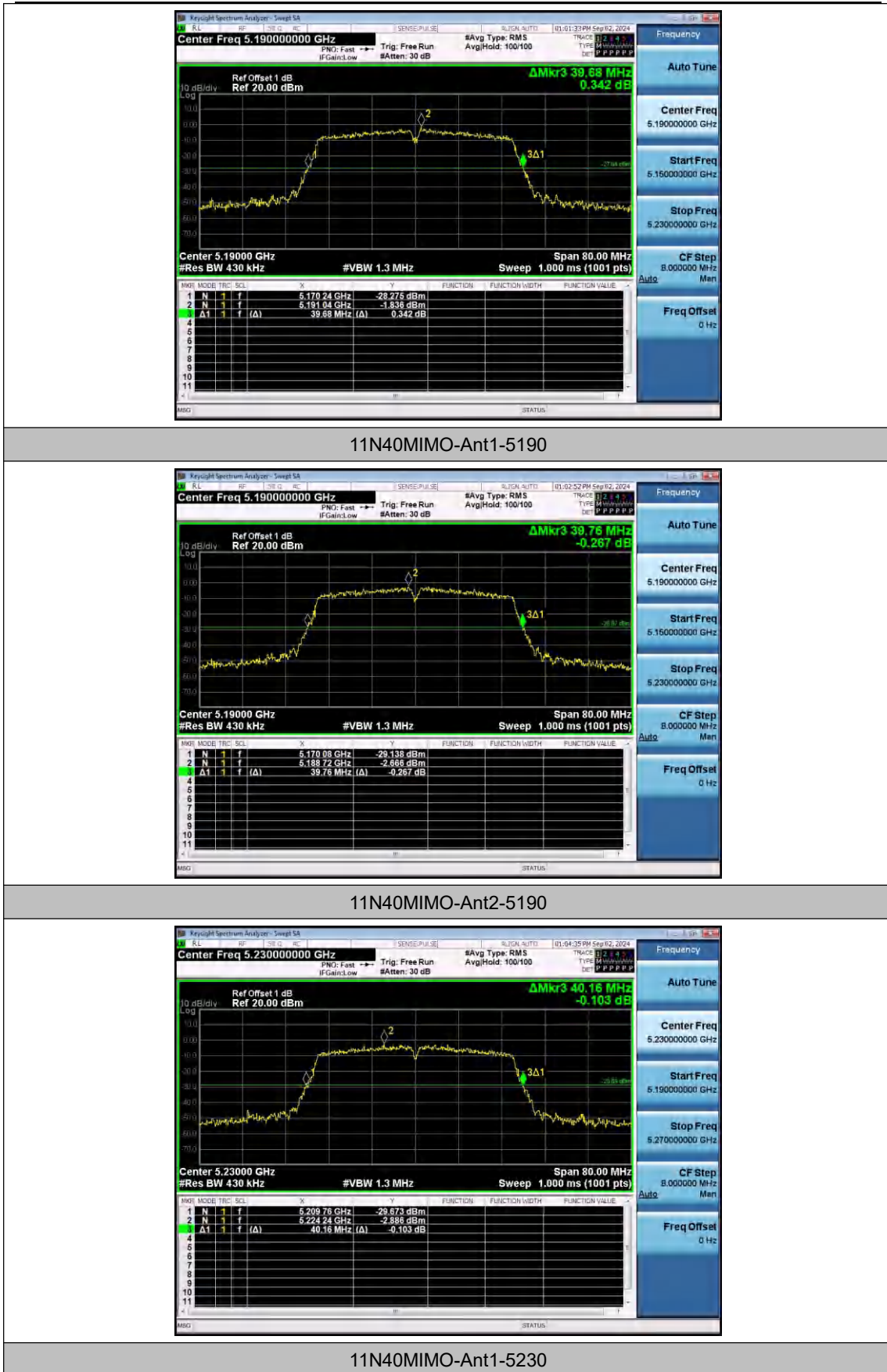


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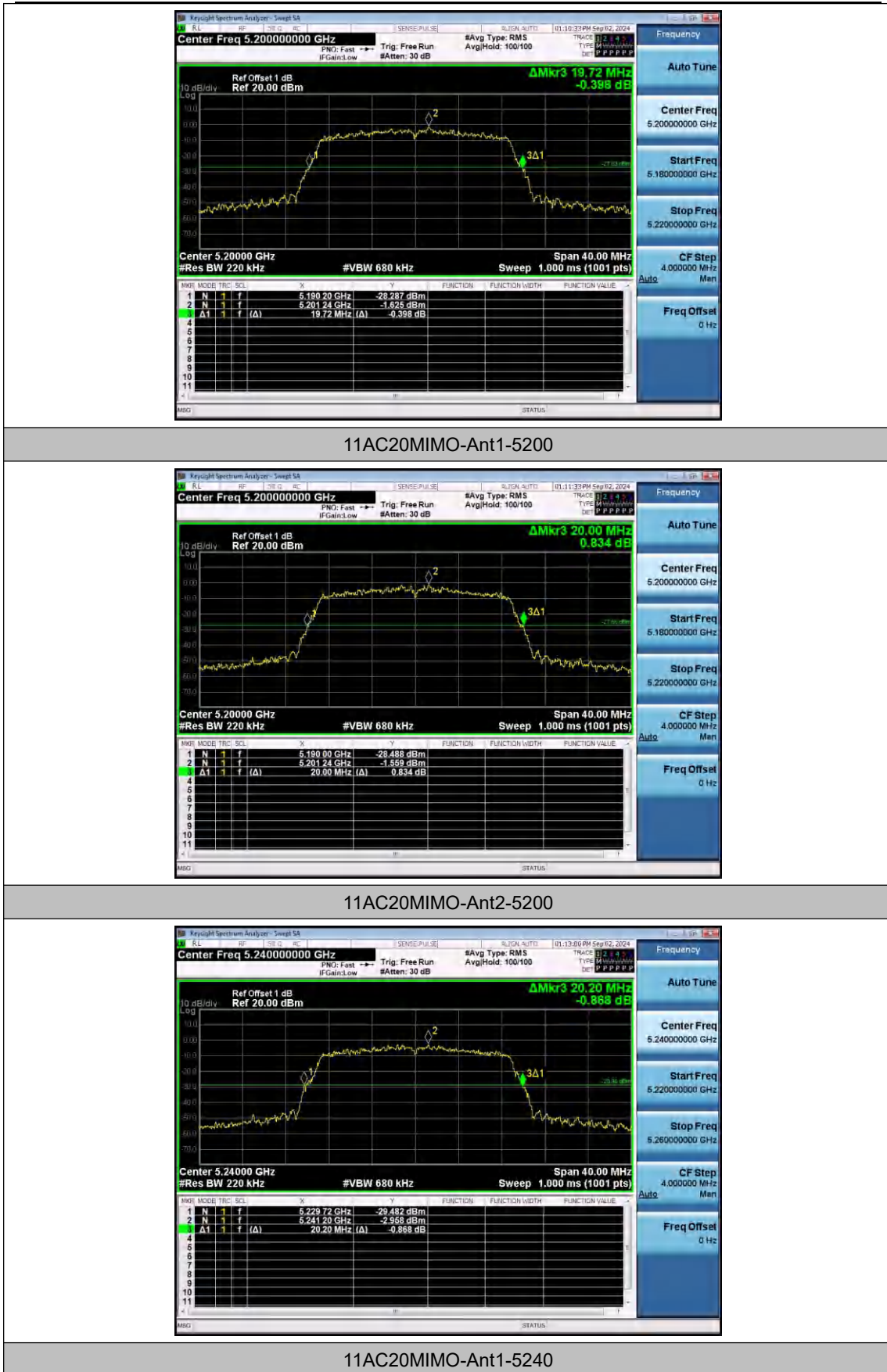


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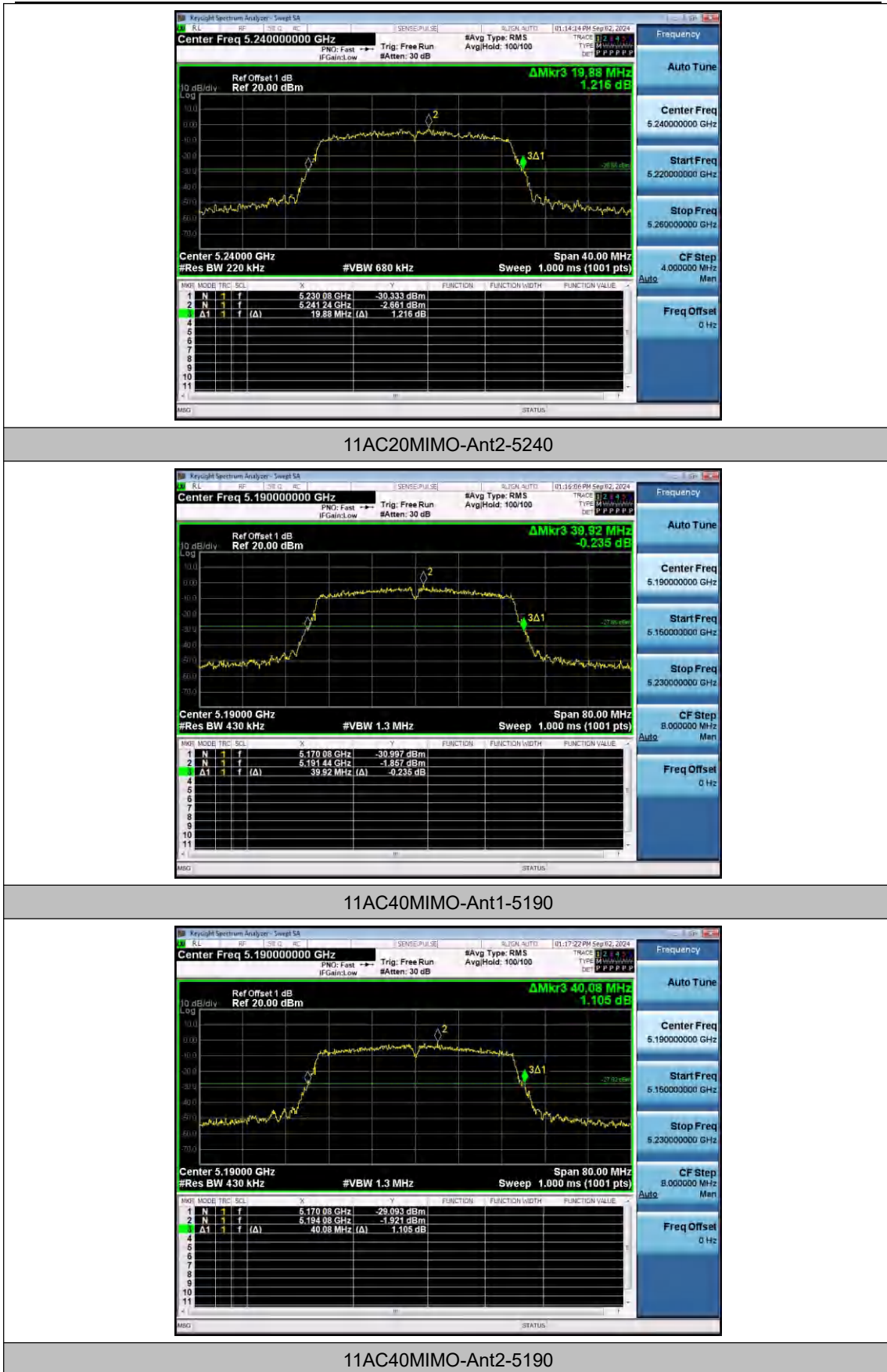


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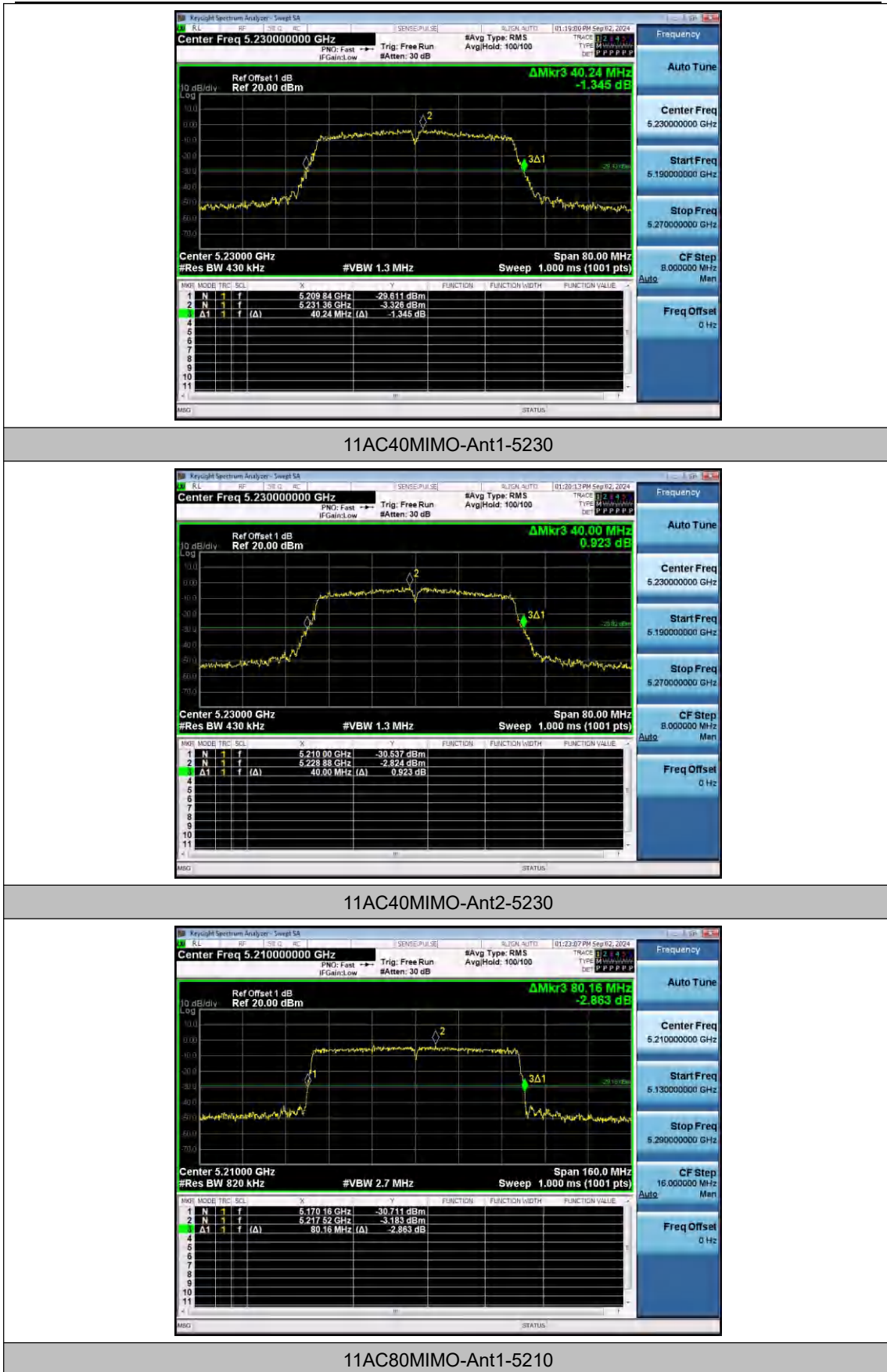


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11AC80MIMO-Ant2-5210



11AX20MIMO-Ant1-5180

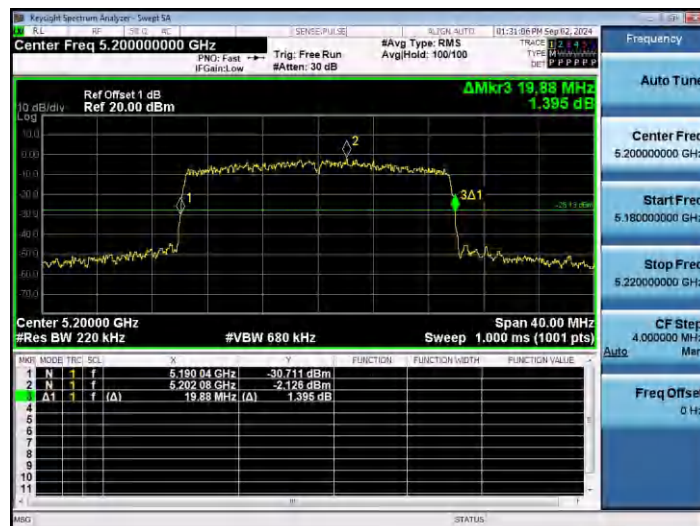


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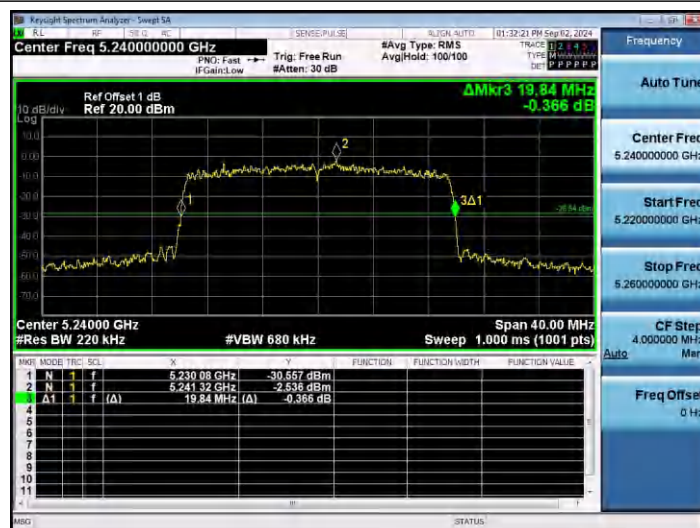




11AX20MIMO-Ant1-5200



11AX20MIMO-Ant2-5200



11AX20MIMO-Ant1-5240

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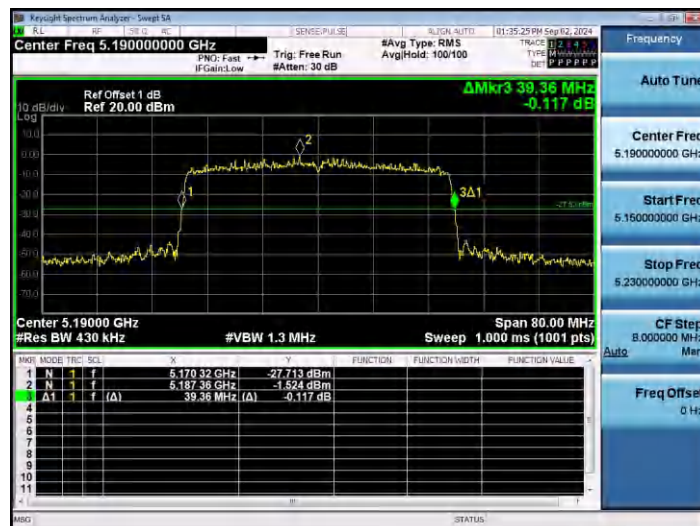
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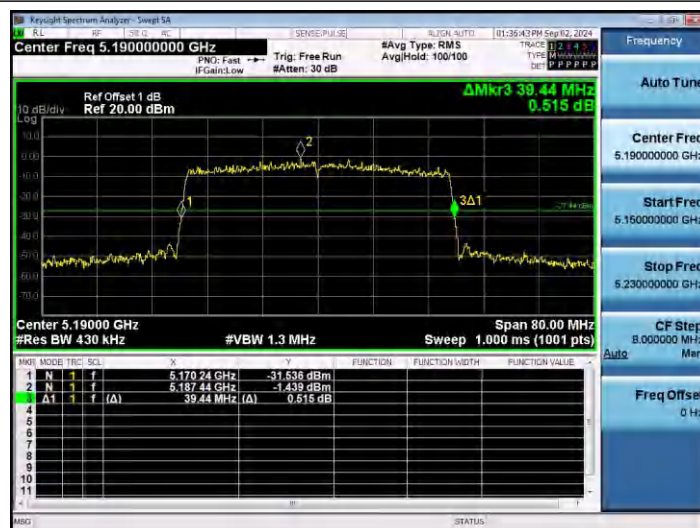




11AX20MIMO-Ant2-5240



11AX40MIMO-Ant1-5190



11AX40MIMO-Ant2-5190

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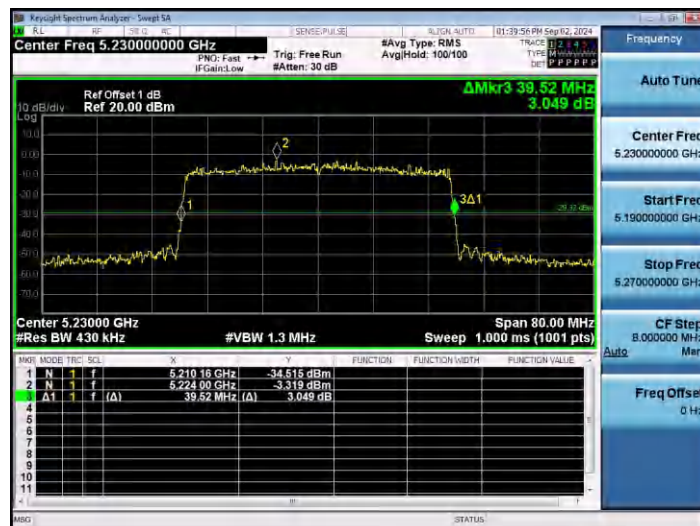
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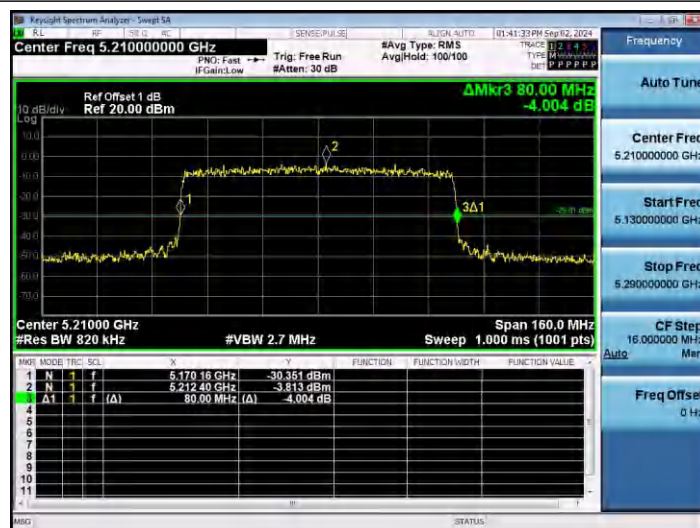




11AX40MIMO-Ant1-5230



11AX40MIMO-Ant2-5230



11AX80MIMO-Ant1-5210

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11AX80MIMO-Ant2-5210

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Appendix A2: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.725	5171.6114	5188.3364	---	---
11A	Ant2	5180	16.722	5171.6074	5188.3294	---	---
11A	Ant1	5200	16.747	5191.5781	5208.3251	---	---
11A	Ant2	5200	16.712	5191.5940	5208.3060	---	---
11A	Ant1	5240	16.773	5231.6118	5248.3848	---	---
11A	Ant2	5240	16.814	5231.5654	5248.3794	---	---
11N20MIMO	Ant1	5180	17.665	5171.1435	5188.8085	---	---
11N20MIMO	Ant2	5180	17.676	5171.1397	5188.8157	---	---
11N20MIMO	Ant1	5200	17.684	5191.1427	5208.8267	---	---
11N20MIMO	Ant2	5200	17.659	5191.1524	5208.8114	---	---
11N20MIMO	Ant1	5240	17.711	5231.1164	5248.8274	---	---
11N20MIMO	Ant2	5240	17.722	5231.1017	5248.8237	---	---
11N40MIMO	Ant1	5190	35.977	5171.9978	5207.9748	---	---
11N40MIMO	Ant2	5190	36.081	5171.9406	5208.0216	---	---
11N40MIMO	Ant1	5230	36.132	5211.8987	5248.0307	---	---
11N40MIMO	Ant2	5230	36.097	5211.9303	5248.0273	---	---
11AC20MIMO	Ant1	5180	17.708	5171.0968	5188.8048	---	---
11AC20MIMO	Ant2	5180	17.715	5171.1137	5188.8287	---	---
11AC20MIMO	Ant1	5200	17.687	5191.1197	5208.8067	---	---
11AC20MIMO	Ant2	5200	17.676	5191.1358	5208.8118	---	---
11AC20MIMO	Ant1	5240	17.719	5231.1111	5248.8301	---	---
11AC20MIMO	Ant2	5240	17.710	5231.1206	5248.8306	---	---
11AC40MIMO	Ant1	5190	36.025	5171.9604	5207.9854	---	---
11AC40MIMO	Ant2	5190	36.027	5171.9460	5207.9730	---	---
11AC40MIMO	Ant1	5230	36.104	5211.9310	5248.0350	---	---
11AC40MIMO	Ant2	5230	36.070	5211.9425	5248.0125	---	---
11AC80MIMO	Ant1	5210	75.526	5172.3135	5247.8395	---	---
11AC80MIMO	Ant2	5210	75.546	5172.2909	5247.8369	---	---
11AX20MIMO	Ant1	5180	18.770	5170.5923	5189.3623	---	---
11AX20MIMO	Ant2	5180	18.759	5170.5927	5189.3517	---	---
11AX20MIMO	Ant1	5200	18.814	5190.5523	5209.3663	---	---
11AX20MIMO	Ant2	5200	18.756	5190.5770	5209.3330	---	---
11AX20MIMO	Ant1	5240	18.795	5230.5808	5249.3758	---	---
11AX20MIMO	Ant2	5240	18.792	5230.5678	5249.3598	---	---
11AX40MIMO	Ant1	5190	37.498	5171.2640	5208.7620	---	---
11AX40MIMO	Ant2	5190	37.598	5171.1686	5208.7666	---	---
11AX40MIMO	Ant1	5230	37.536	5211.2577	5248.7937	---	---

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11AX40MIMO	Ant2	5230	37.613	5211.2217	5248.8347	---	---
11AX80MIMO	Ant1	5210	77.077	5171.5179	5248.5949	---	---
11AX80MIMO	Ant2	5210	77.155	5171.4470	5248.6020	---	---

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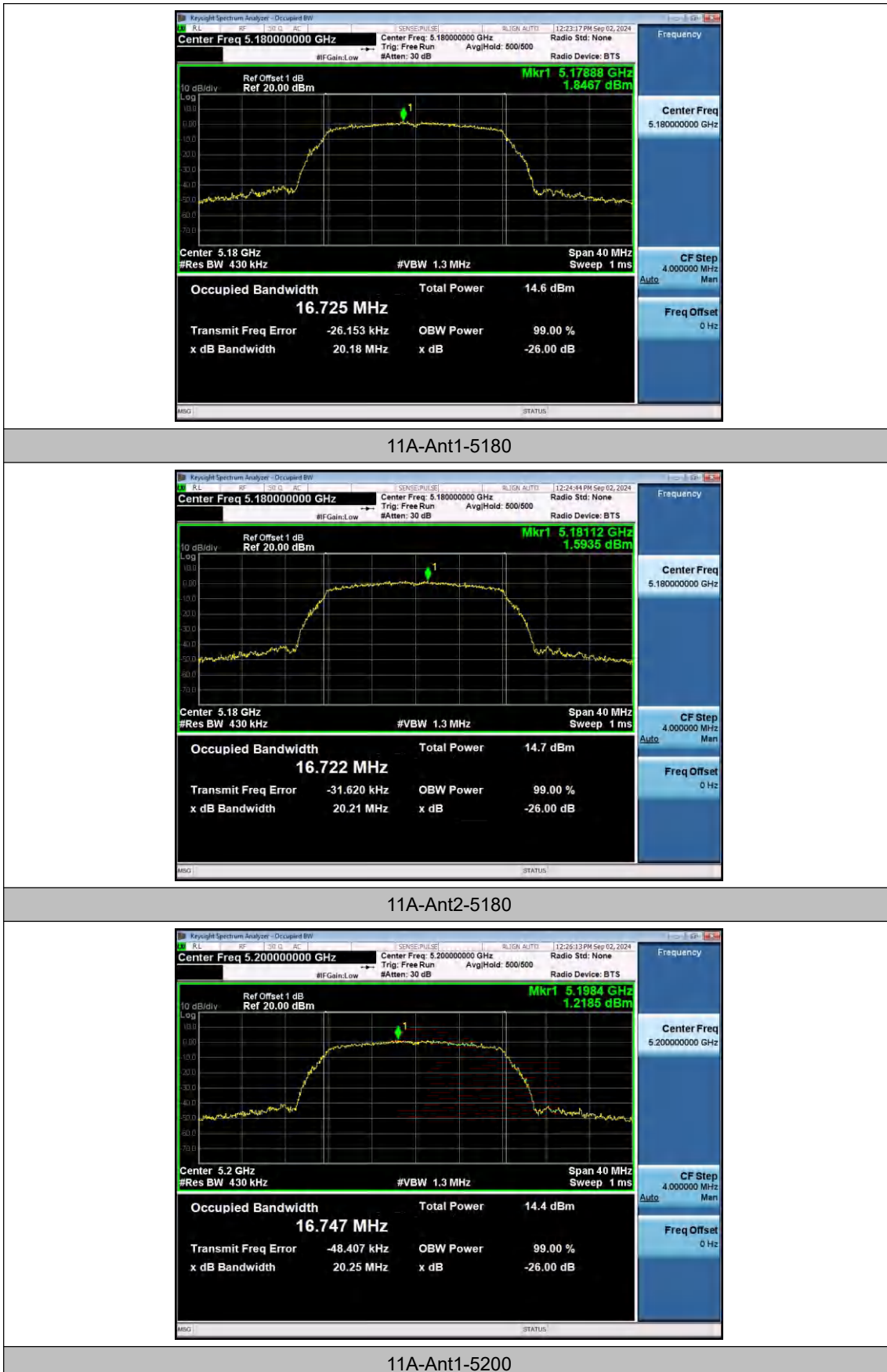
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Test Graphs

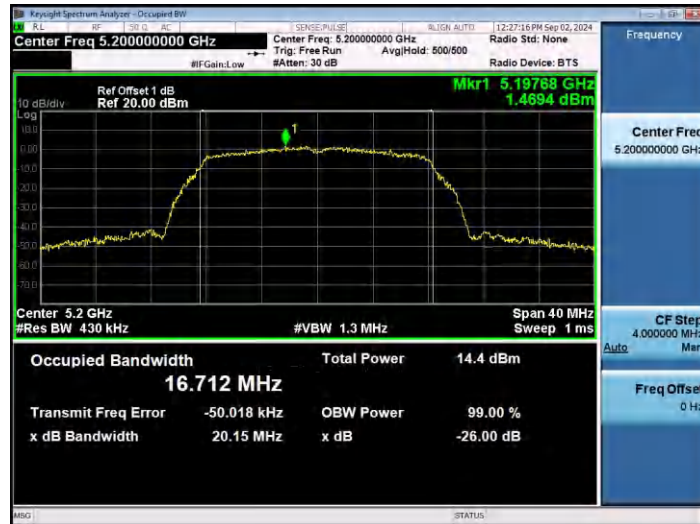


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11A-Ant2-5200



11A-Ant1-5240



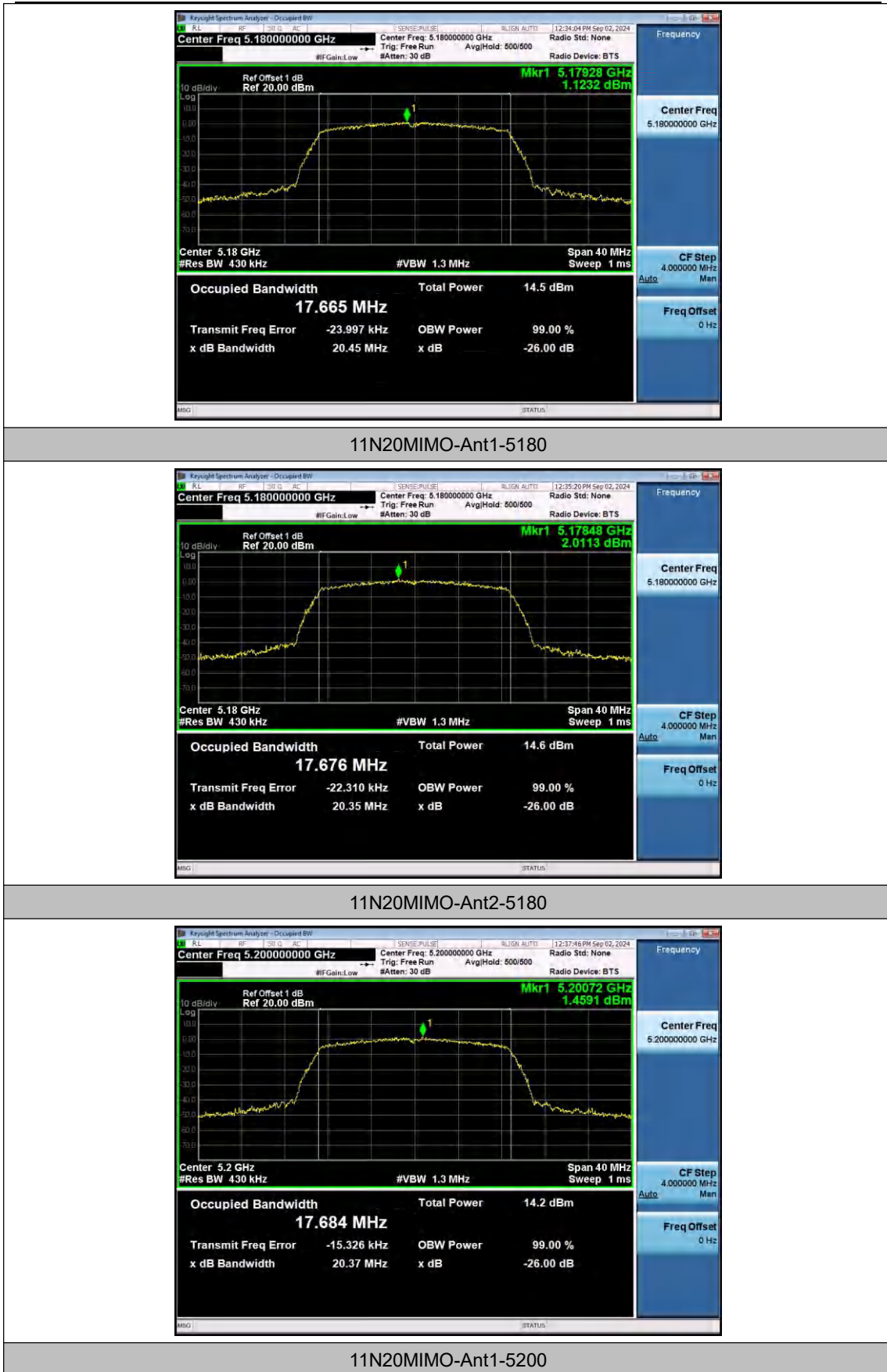
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11N20MIMO-Ant2-5200



11N20MIMO-Ant1-5240



11N20MIMO-Ant2-5240

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11N40MIMO-Ant1-5190



11N40MIMO-Ant2-5190



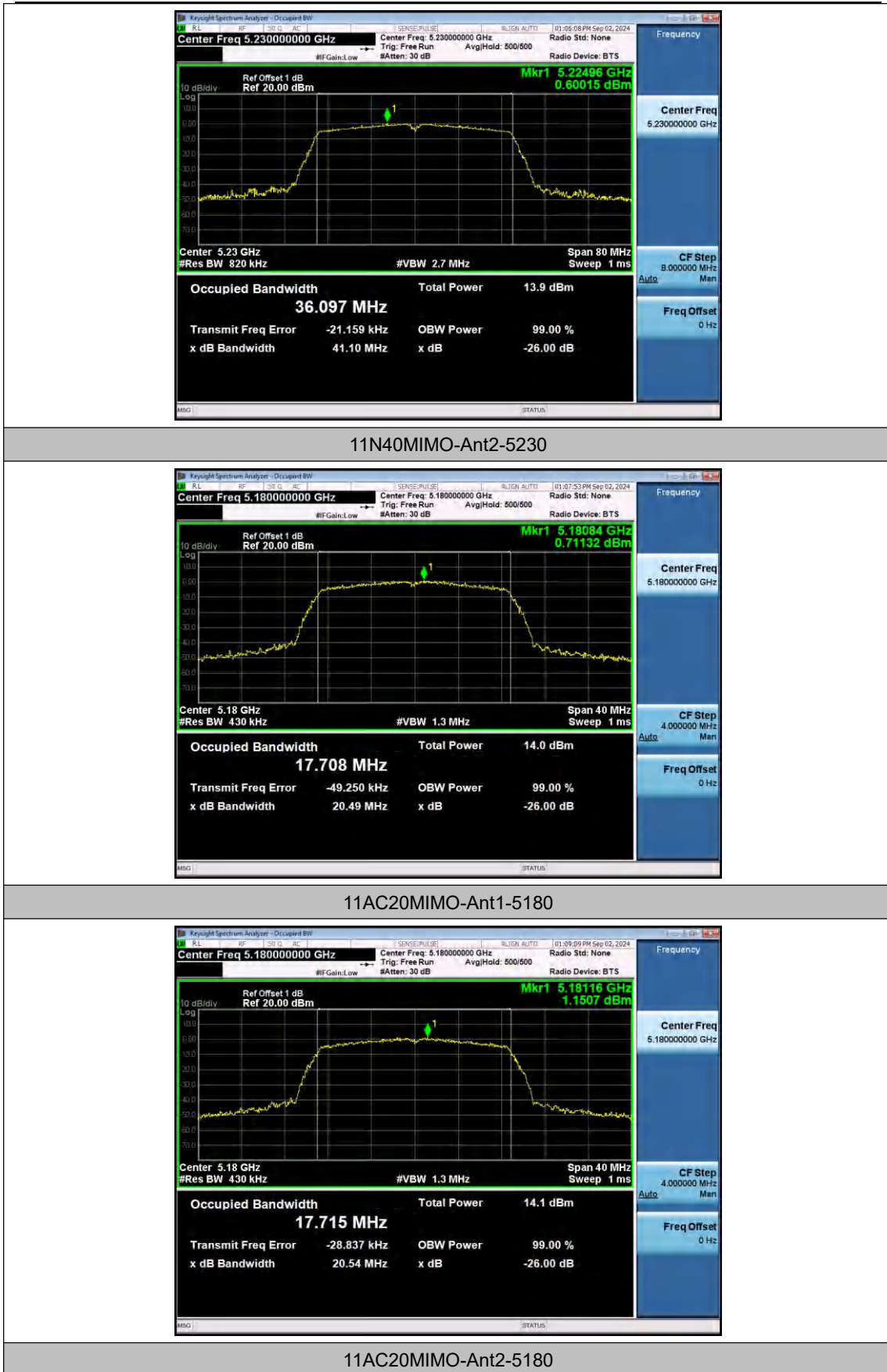
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11AC20MIMO-Ant1-5200



11AC20MIMO-Ant2-5200



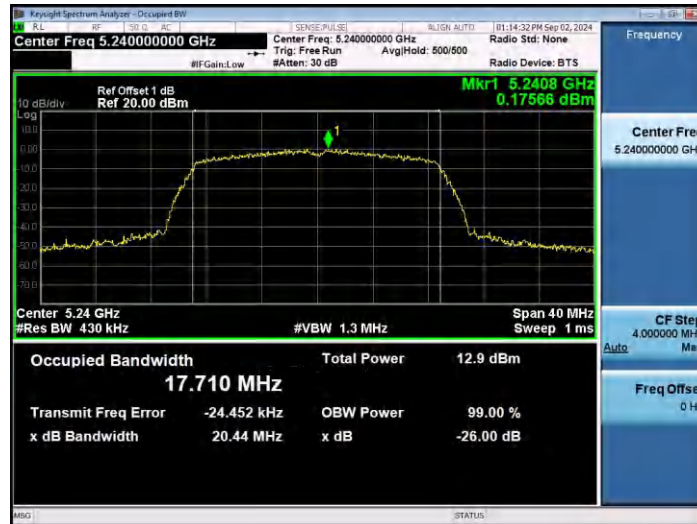
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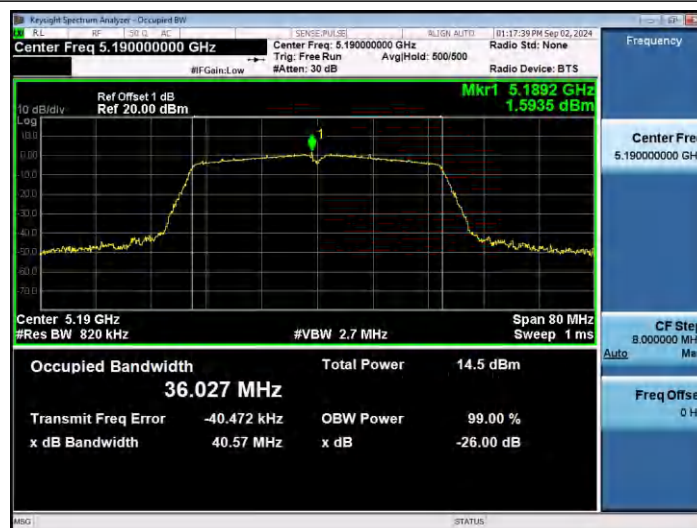




11AC20MIMO-Ant2-5240



11AC40MIMO-Ant1-5190



11AC40MIMO-Ant2-5190

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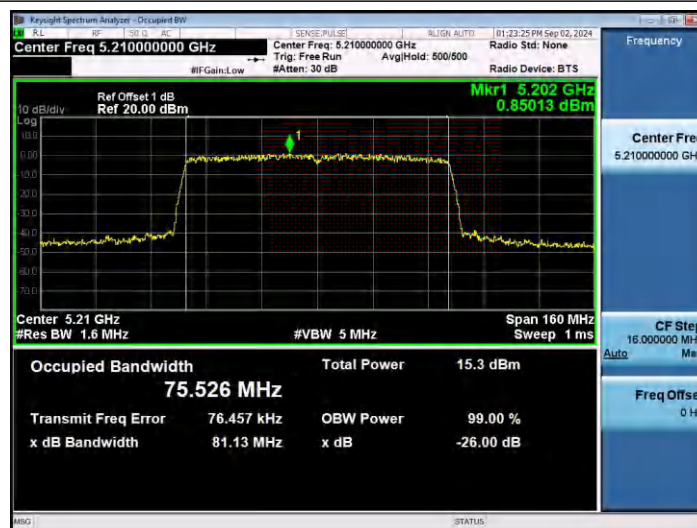




11AC40MIMO-Ant1-5230



11AC40MIMO-Ant2-5230



11AC80MIMO-Ant1-5210

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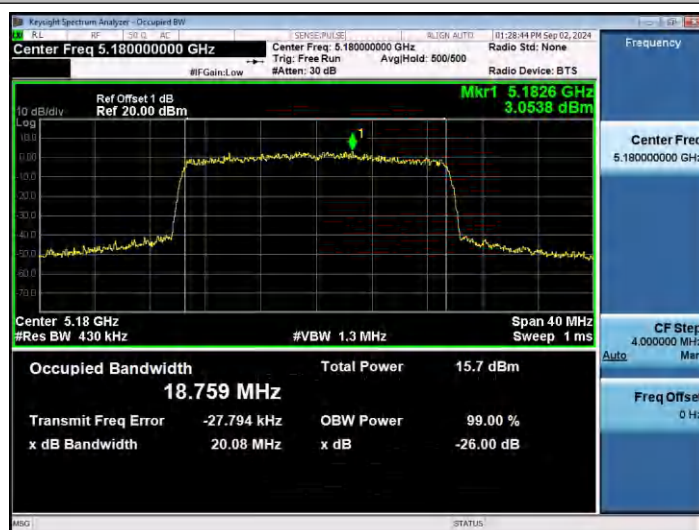




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11AX20MIMO-Ant1-5180



11AX20MIMO-Ant2-5180

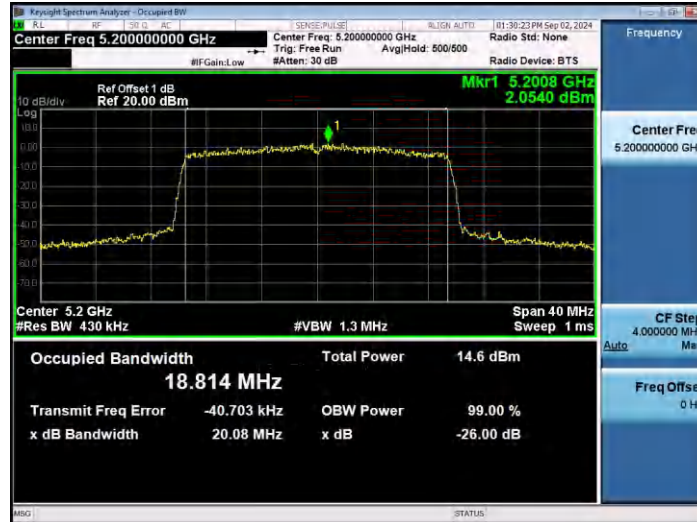
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11AX20MIMO-Ant1-5200



11AX20MIMO-Ant2-5200



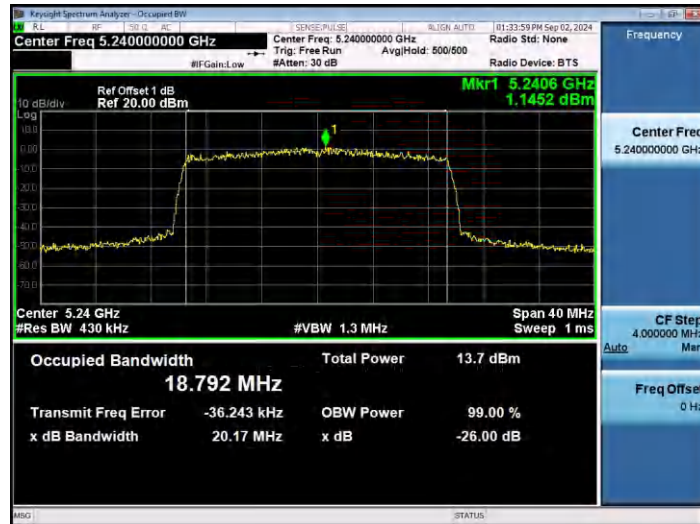
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11AX20MIMO-Ant2-5240



11AX40MIMO-Ant1-5190



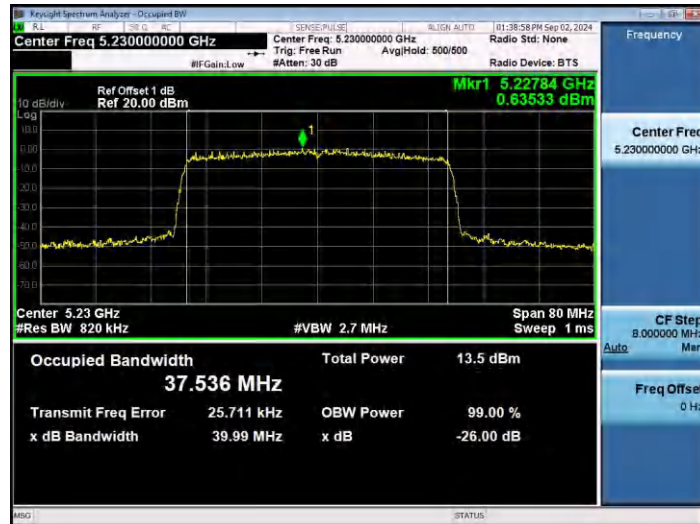
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11AX40MIMO-Ant1-5230



11AX40MIMO-Ant2-5230



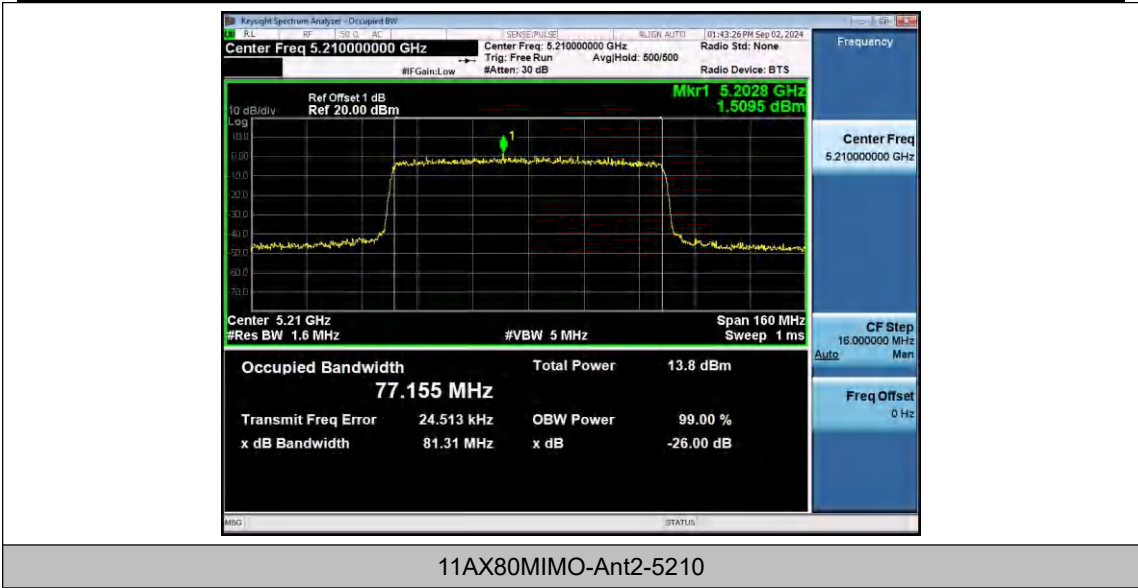
11AX80MIMO-Ant1-5210

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Appendix B: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Dc Factor [%]	1/T
11A	Ant1	5180	1.39	1.93	72.02	1.43	0.72
11A	Ant2	5180	1.39	1.91	72.77	1.38	0.72
11A	Ant1	5200	1.39	1.92	72.40	1.40	0.72
11A	Ant2	5200	1.40	1.93	72.54	1.39	0.71
11A	Ant1	5240	1.40	1.92	72.92	1.37	0.71
11A	Ant2	5240	1.39	1.91	72.77	1.38	0.72
11N20MIMO	Ant1	5180	1.30	1.82	71.43	1.46	0.77
11N20MIMO	Ant2	5180	1.30	1.82	71.43	1.46	0.77
11N20MIMO	Ant1	5200	1.30	1.83	71.04	1.48	0.77
11N20MIMO	Ant2	5200	1.30	1.82	71.43	1.46	0.77
11N20MIMO	Ant1	5240	1.30	1.84	70.65	1.51	0.77
11N20MIMO	Ant2	5240	1.30	1.78	73.03	1.36	0.77
11N40MIMO	Ant1	5190	0.65	1.19	54.62	2.63	1.54
11N40MIMO	Ant2	5190	0.64	1.17	54.70	2.62	1.56
11N40MIMO	Ant1	5230	0.64	1.16	55.17	2.58	1.56
11N40MIMO	Ant2	5230	0.65	1.20	54.17	2.66	1.54
11AC20MIMO	Ant1	5180	1.31	1.85	70.81	1.50	0.76
11AC20MIMO	Ant2	5180	1.30	1.83	71.04	1.48	0.77
11AC20MIMO	Ant1	5200	1.31	1.83	71.58	1.45	0.76
11AC20MIMO	Ant2	5200	1.31	2.17	60.37	2.19	0.76
11AC20MIMO	Ant1	5240	1.31	1.85	70.81	1.50	0.76
11AC20MIMO	Ant2	5240	1.31	1.83	71.58	1.45	0.76
11AC40MIMO	Ant1	5190	0.65	1.19	54.62	2.63	1.54
11AC40MIMO	Ant2	5190	0.65	1.16	56.03	2.52	1.54
11AC40MIMO	Ant1	5230	0.66	1.21	54.55	2.63	1.52
11AC40MIMO	Ant2	5230	0.65	1.19	54.62	2.63	1.54
11AC80MIMO	Ant1	5210	0.32	0.74	43.24	3.64	3.13
11AC80MIMO	Ant2	5210	0.33	0.74	44.59	3.51	3.03
11AX20MIMO	Ant1	5180	1.01	1.53	66.01	1.80	0.99
11AX20MIMO	Ant2	5180	1.02	1.61	63.35	1.98	0.98
11AX20MIMO	Ant1	5200	1.01	1.53	66.01	1.80	0.99
11AX20MIMO	Ant2	5200	1.02	1.54	66.23	1.79	0.98
11AX20MIMO	Ant1	5240	1.02	1.56	65.38	1.85	0.98
11AX20MIMO	Ant2	5240	1.01	1.53	66.01	1.80	0.99
11AX40MIMO	Ant1	5190	0.54	1.06	50.94	2.93	1.85
11AX40MIMO	Ant2	5190	0.54	1.06	50.94	2.93	1.85

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11AX40MIMO	Ant1	5230	0.53	1.46	36.30	4.40	1.89
11AX40MIMO	Ant2	5230	0.53	1.06	50.00	3.01	1.89
11AX80MIMO	Ant1	5210	0.29	0.81	35.80	4.46	3.45
11AX80MIMO	Ant2	5210	0.29	0.81	35.80	4.46	3.45

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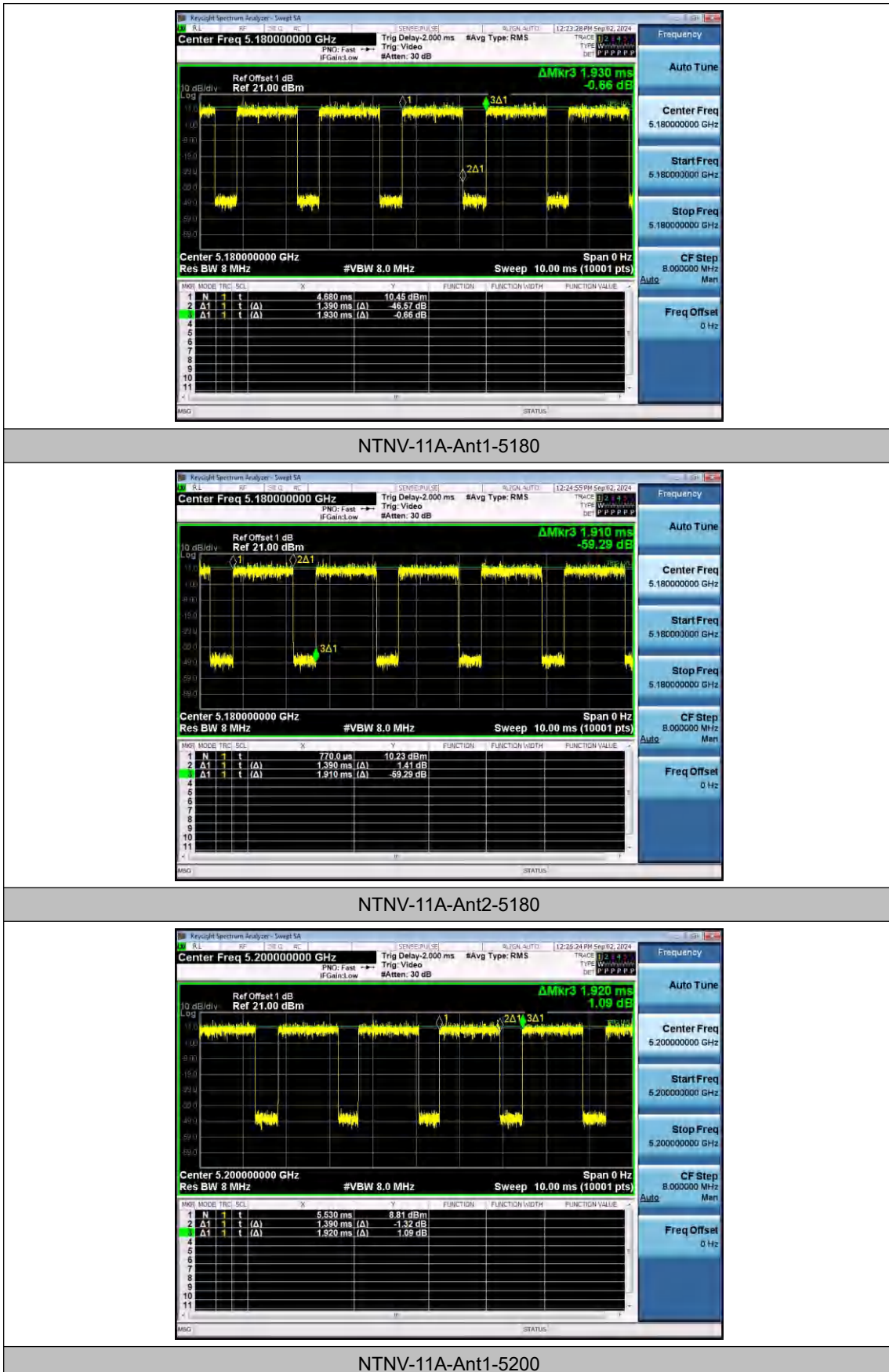
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Test Graphs

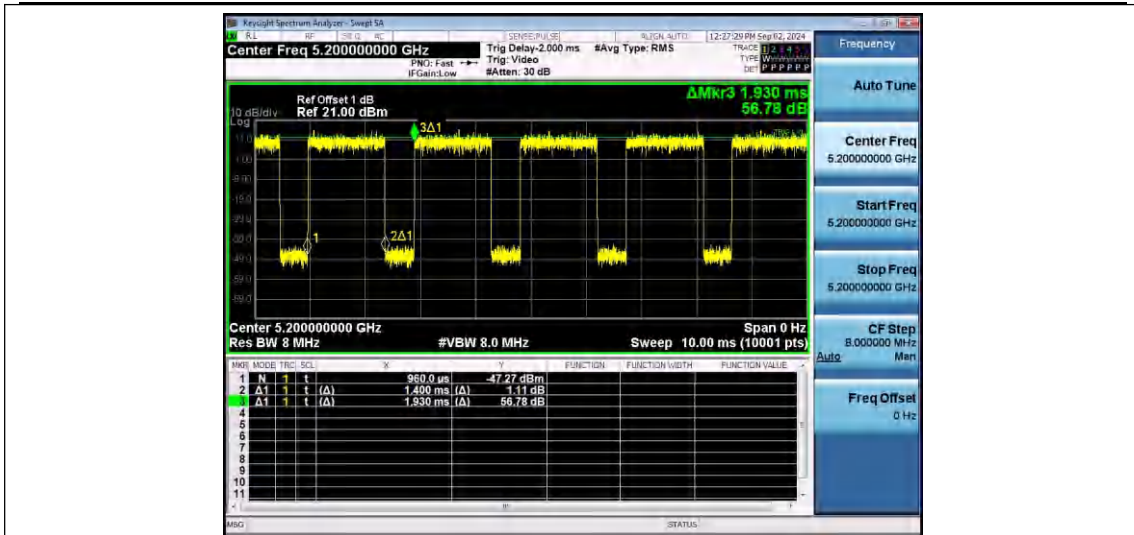


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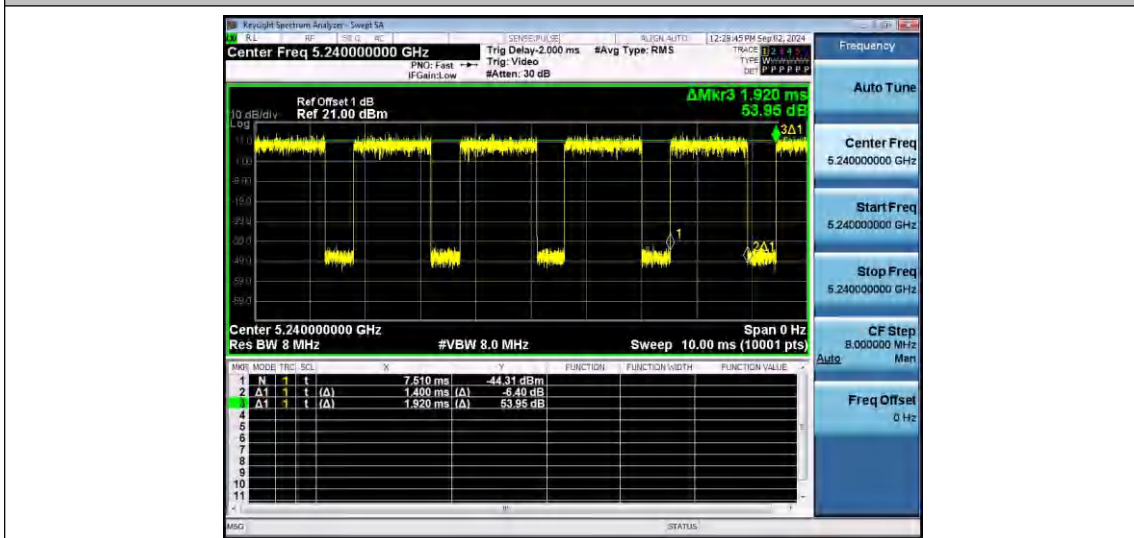
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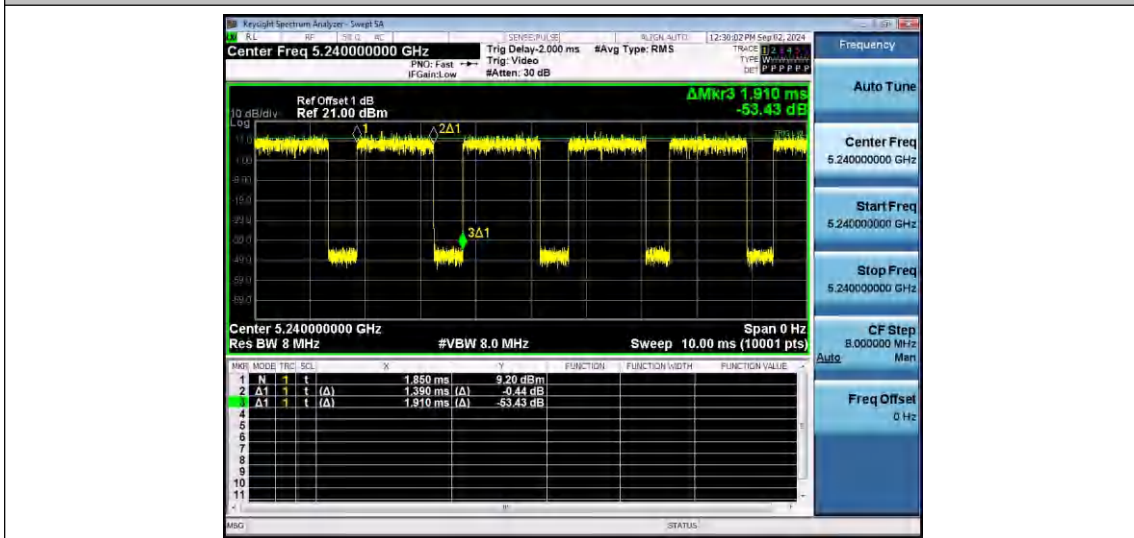




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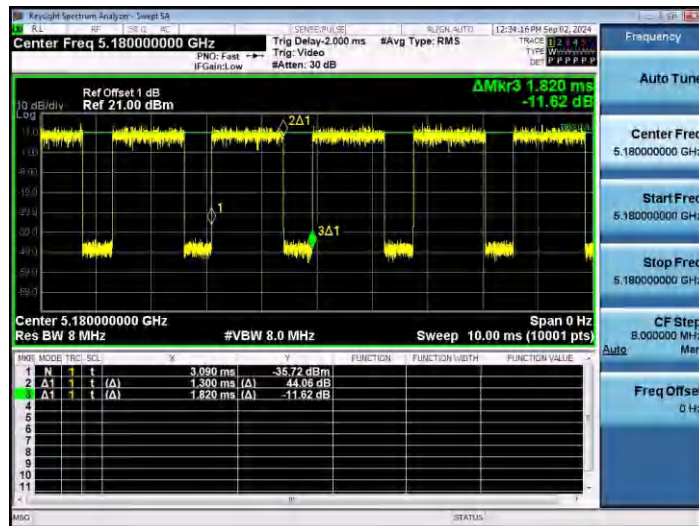


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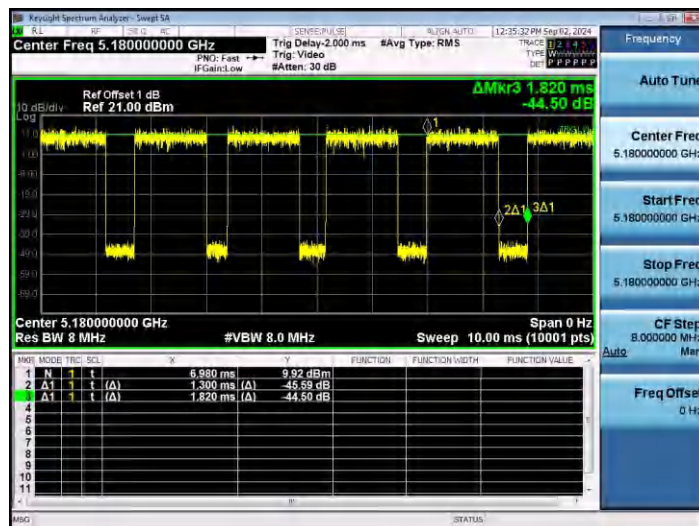


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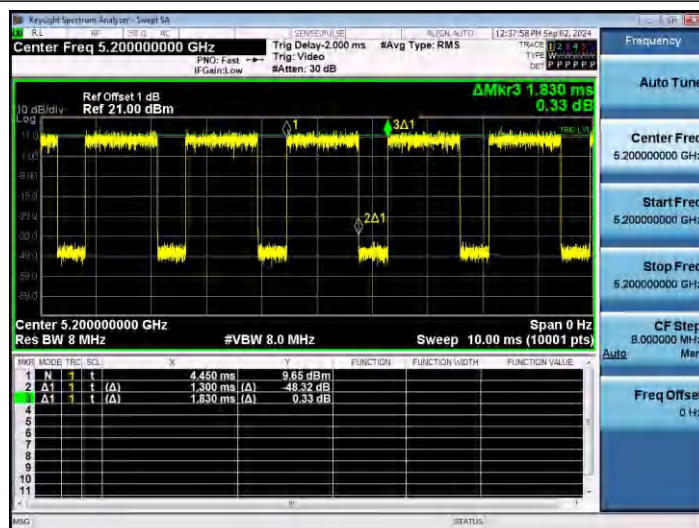




NTVN-11N20MIMO-Ant1-5180

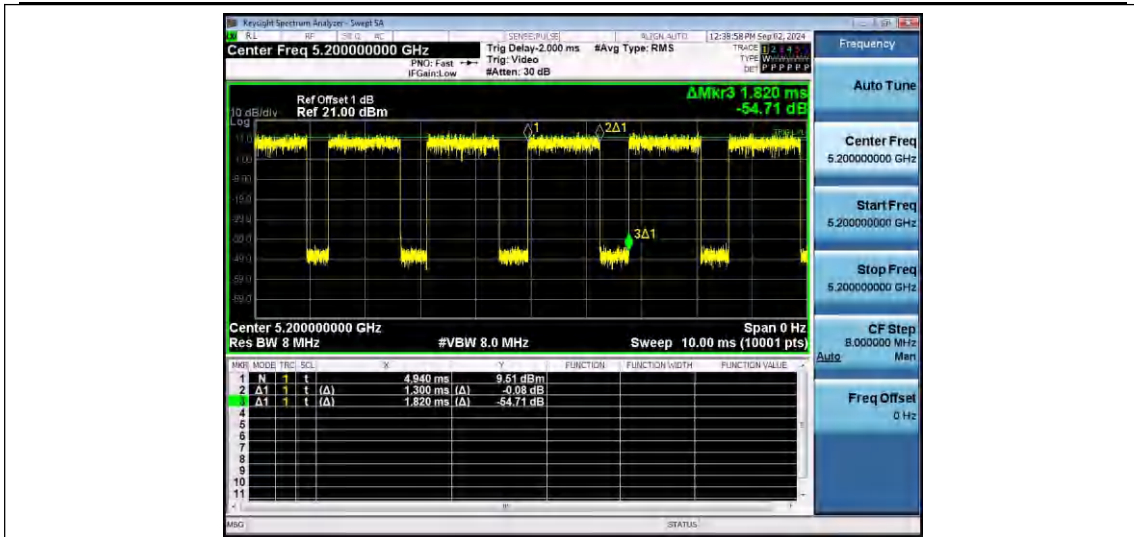


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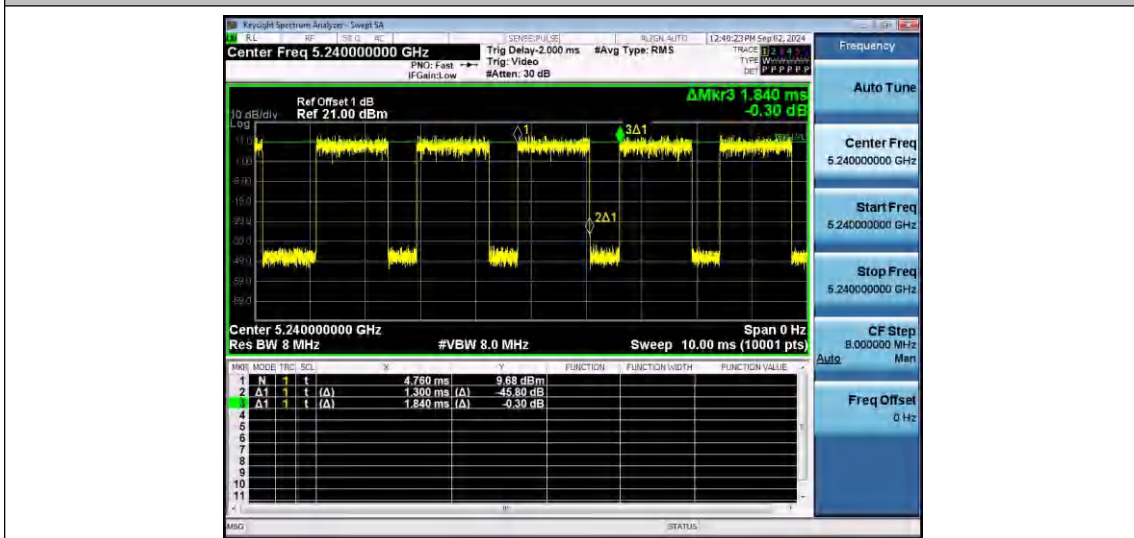


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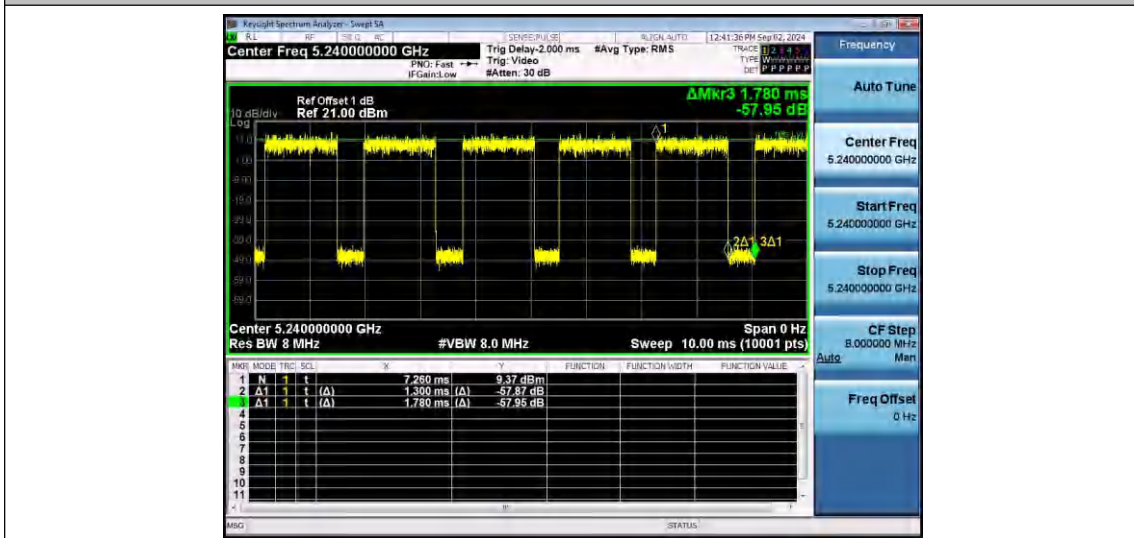




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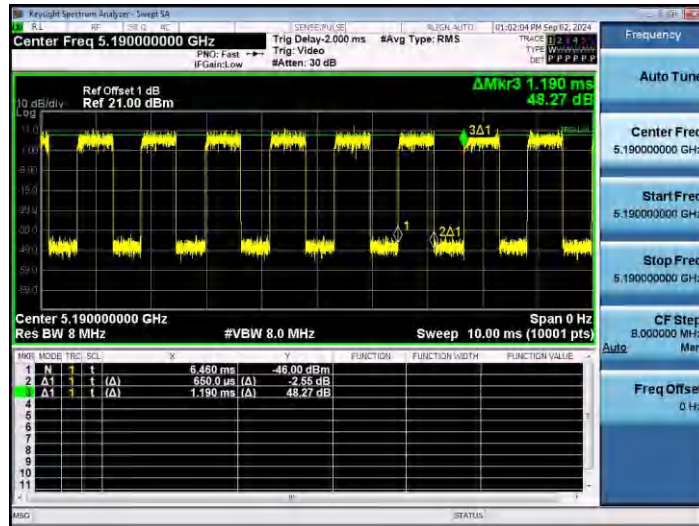


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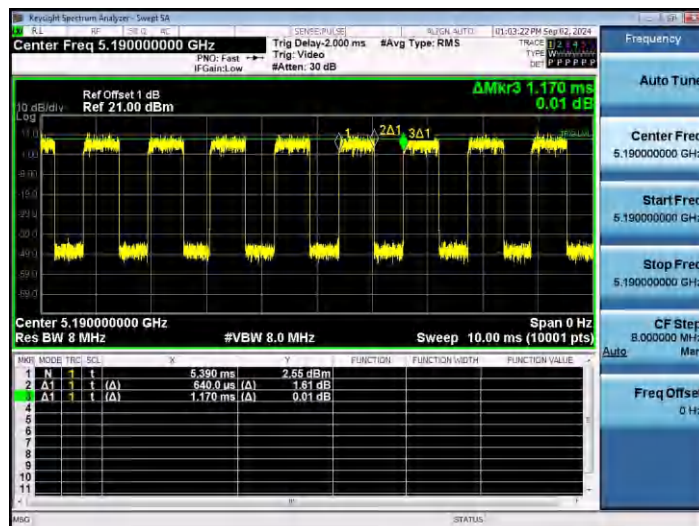


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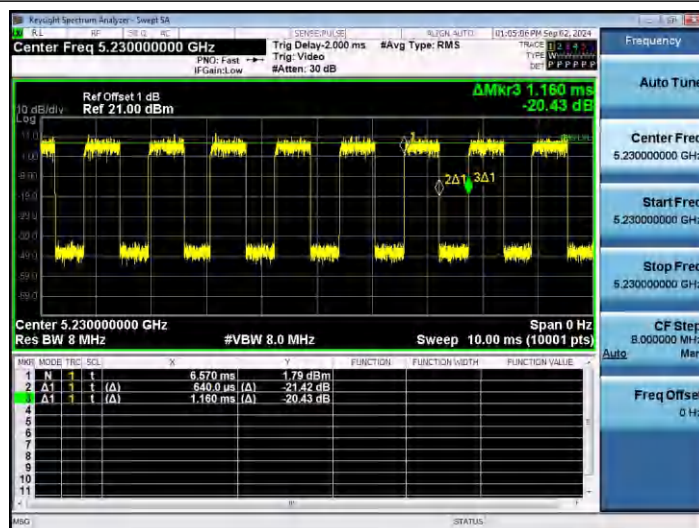




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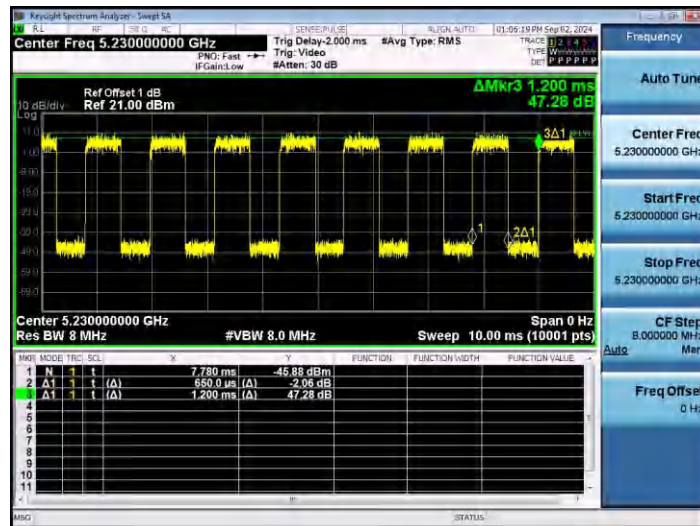


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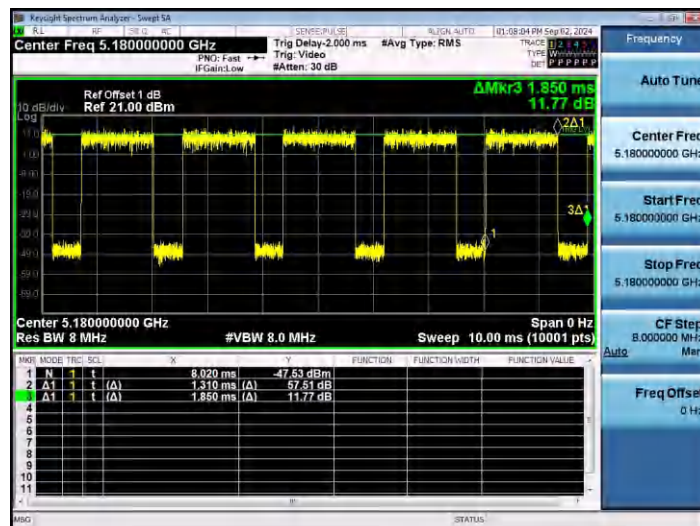


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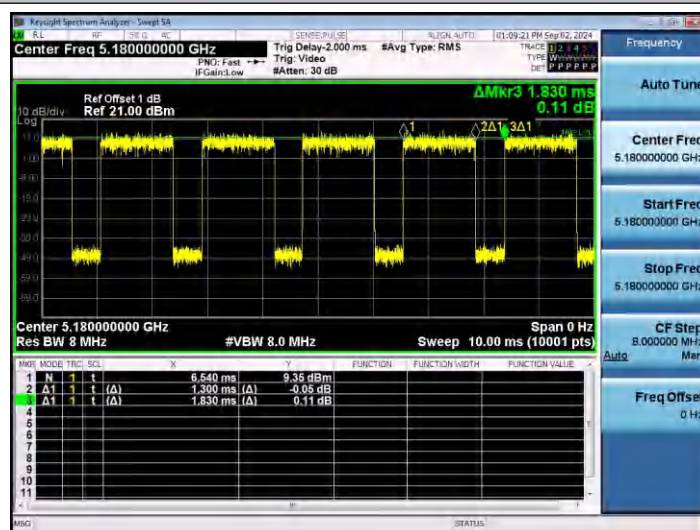




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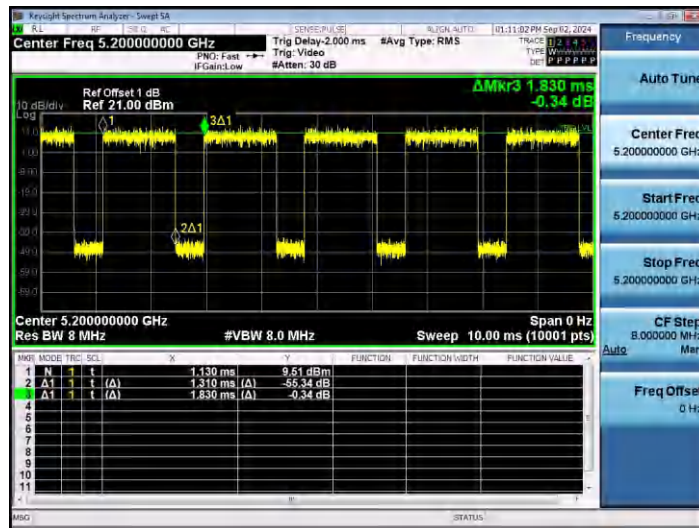


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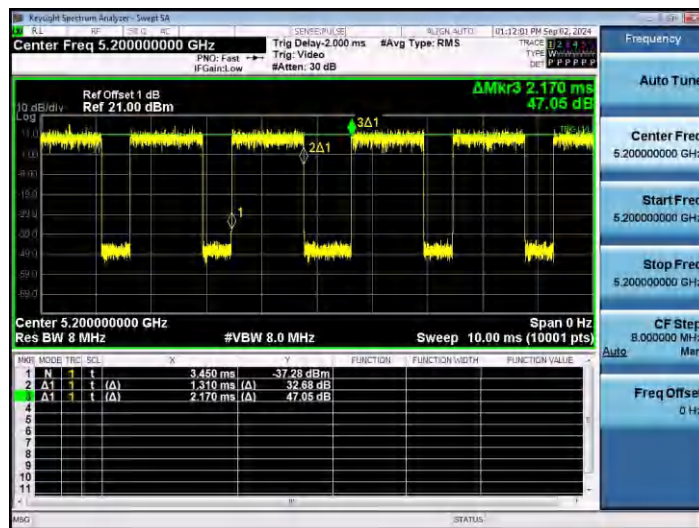


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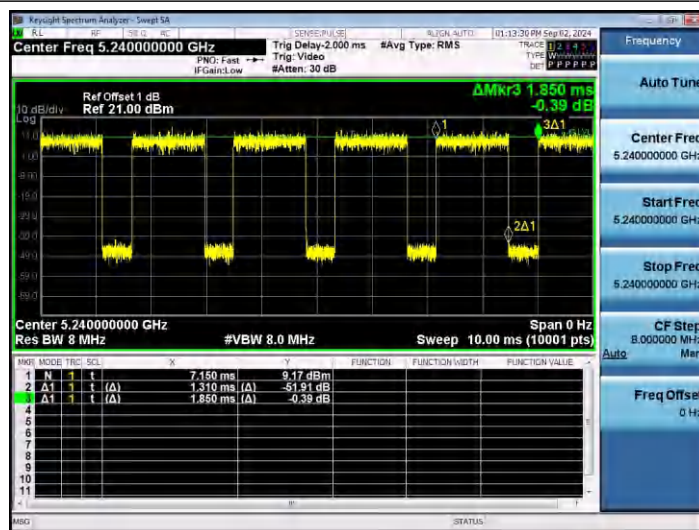




NTNV-11AC20MIMO-Ant1-5200

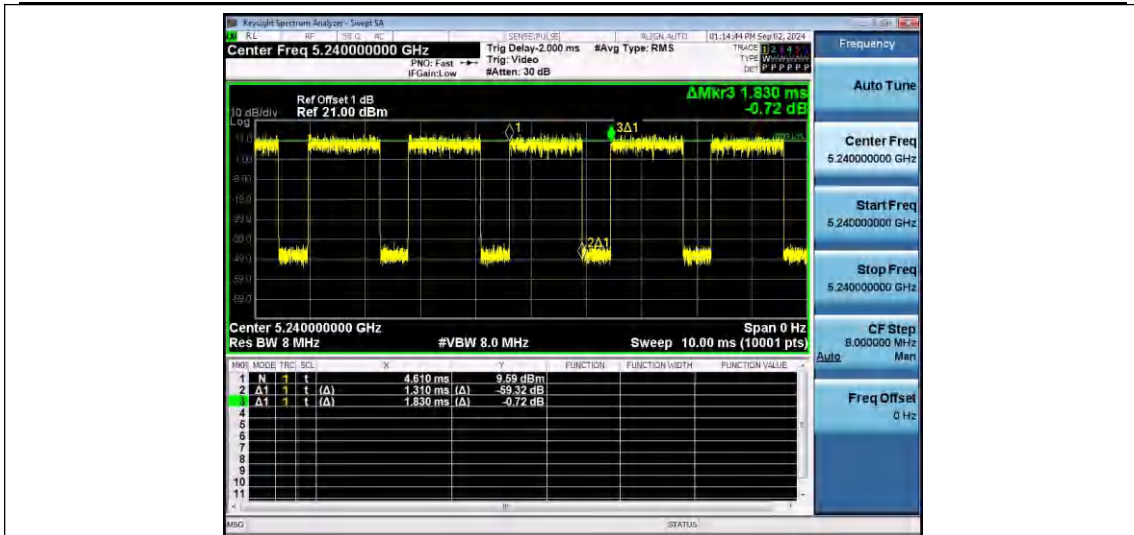


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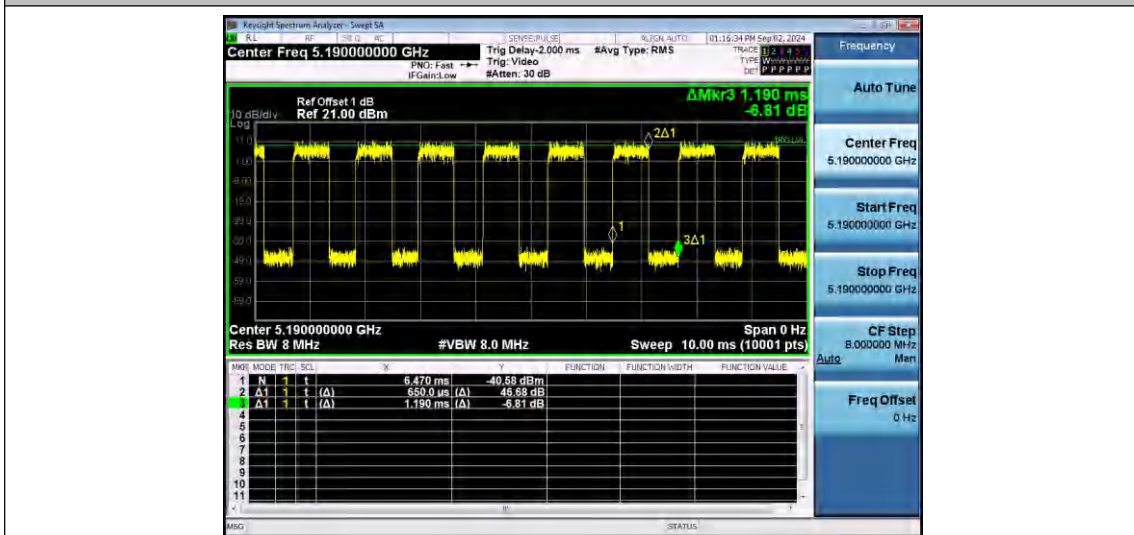


NTNV-11AC20MIMO-Ant1-5240

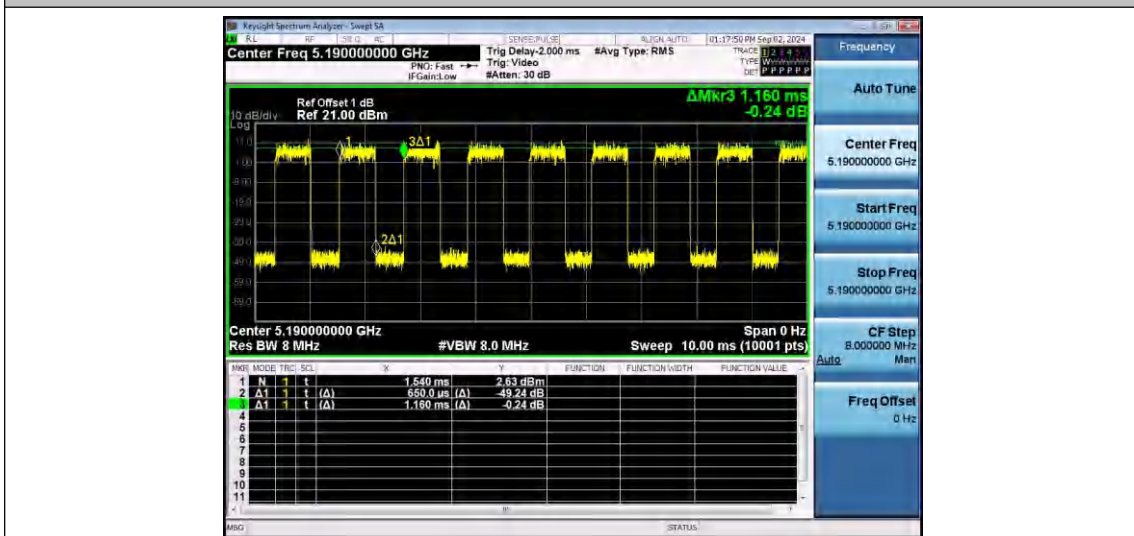




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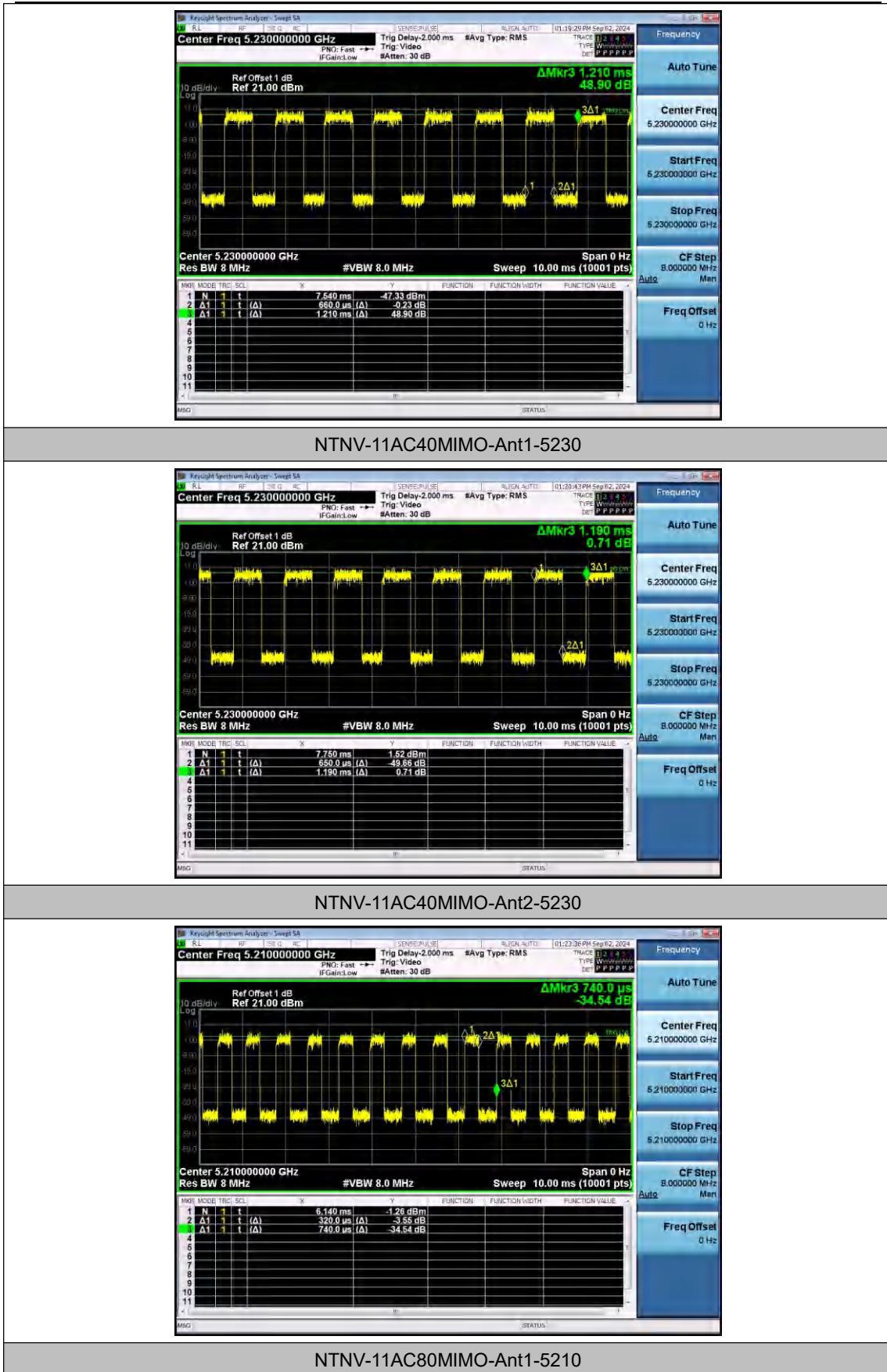


NTNV-11AC40MIMO-Ant1-5190



NTNV-11AC40MIMO-Ant2-5190



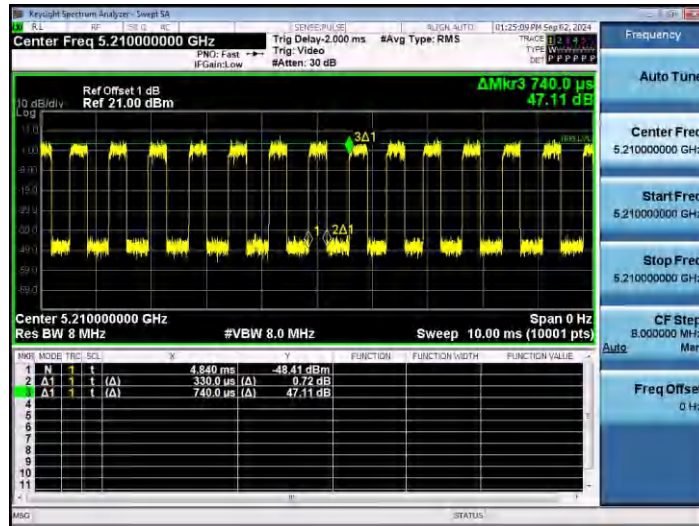


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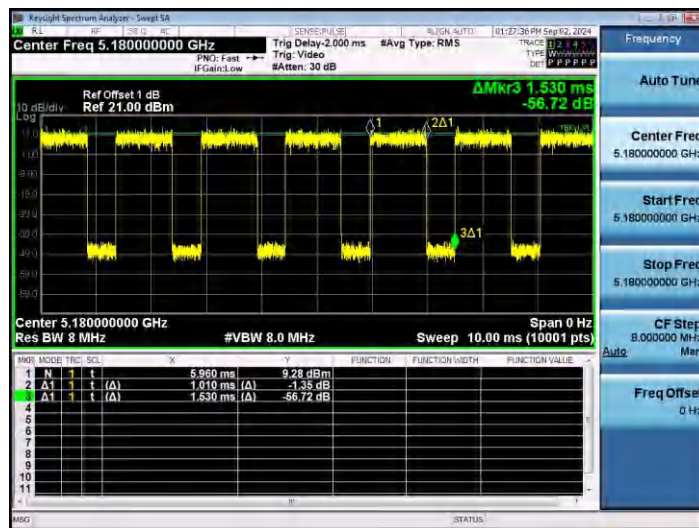
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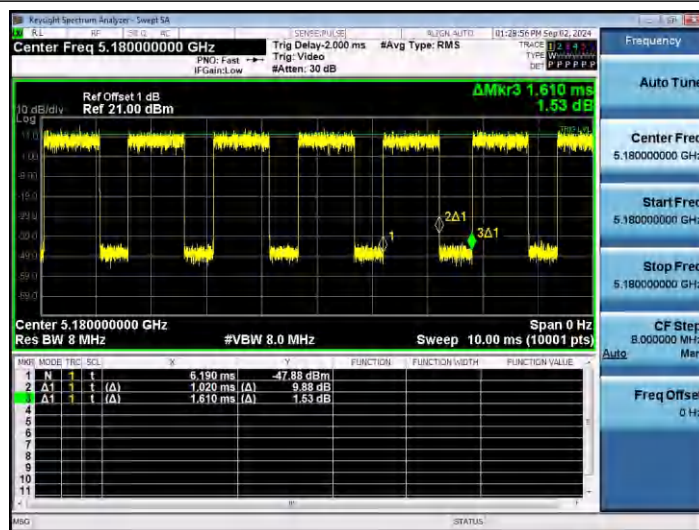




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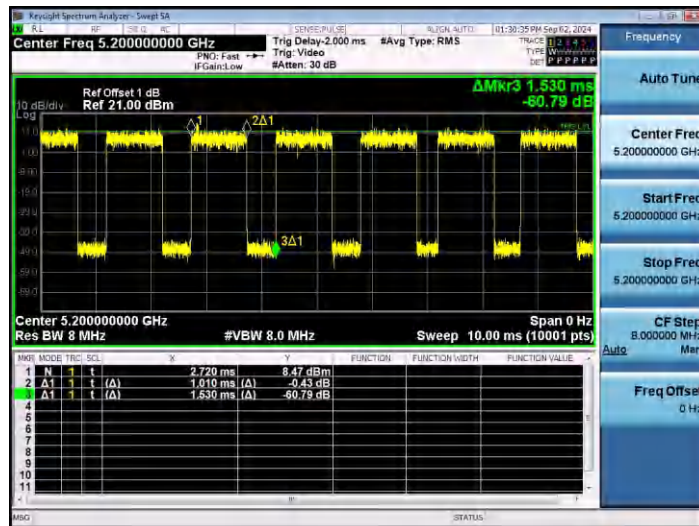


NTNV-11AX20MIMO-Ant1-5180

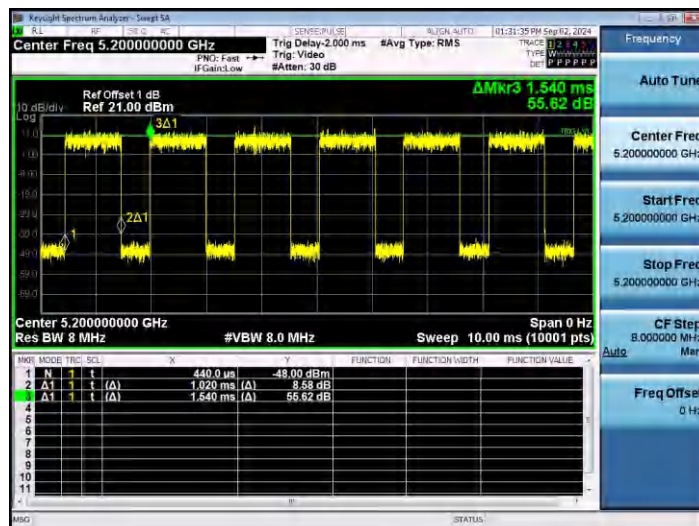


NTNV-11AX20MIMO-Ant2-5180

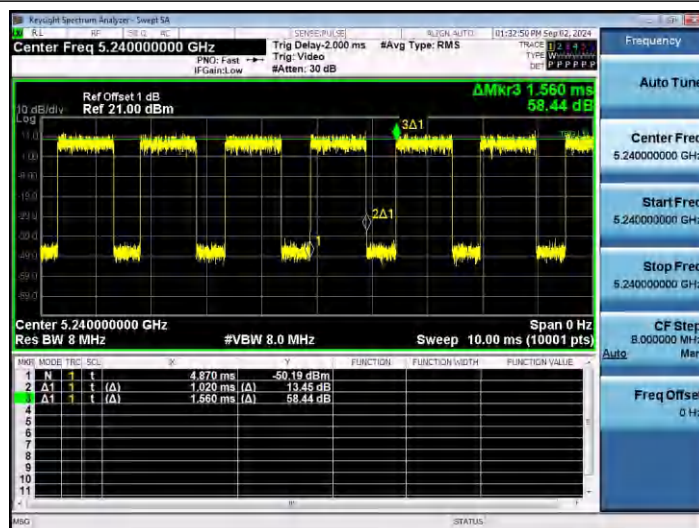




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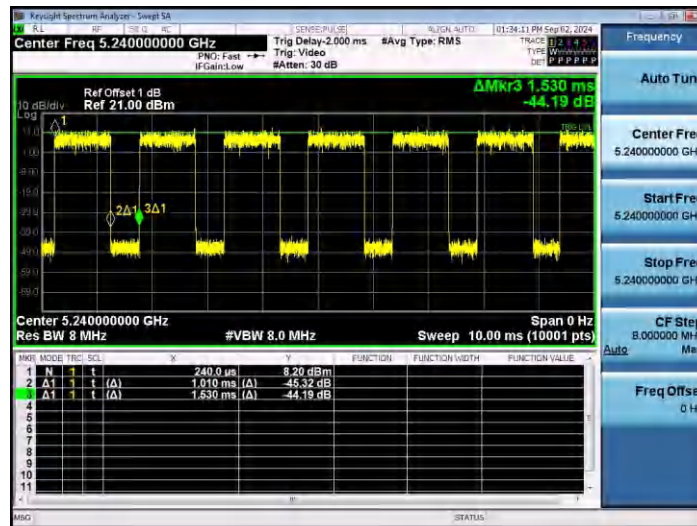


NTNV-11AX20MIMO-Ant2-5200

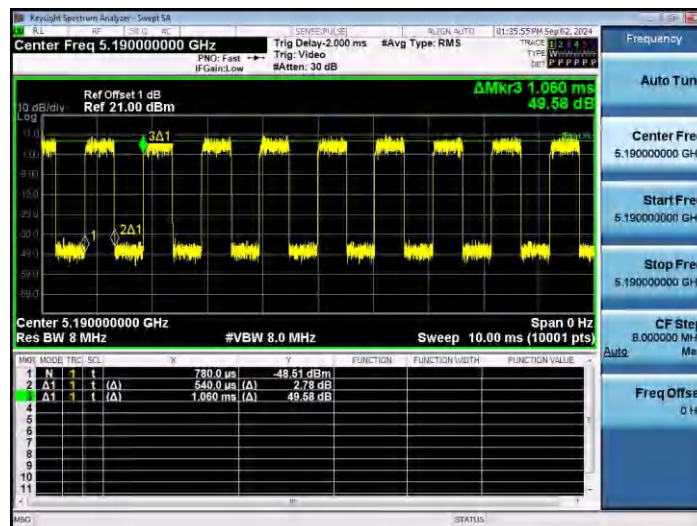


NTNV-11AX20MIMO-Ant1-5240

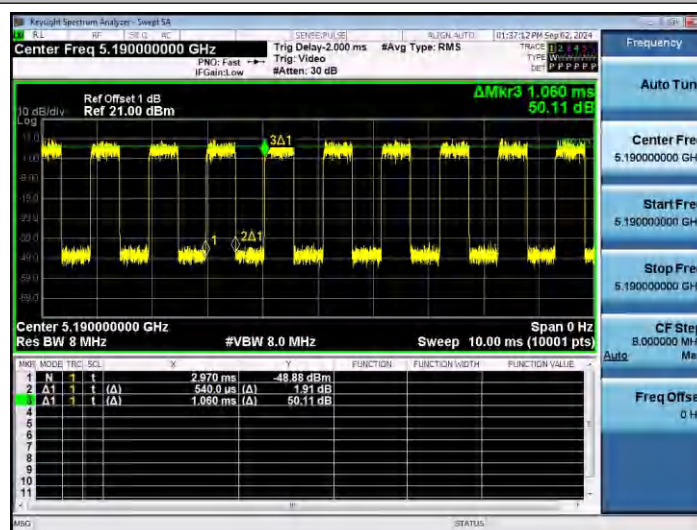




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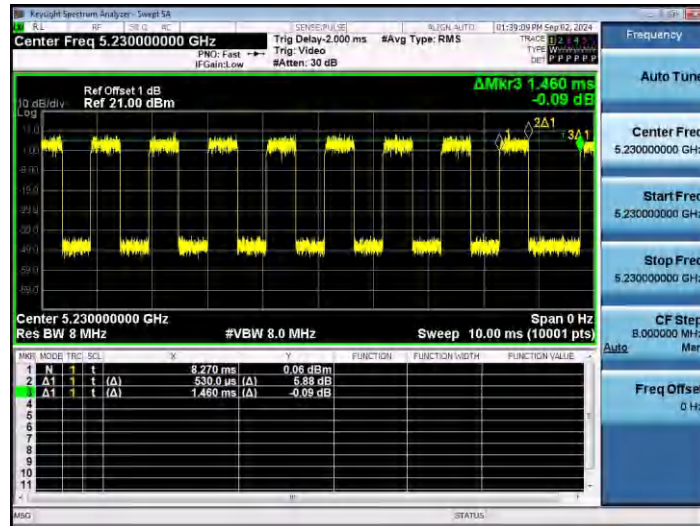


NTNV-11AX40MIMO-Ant1-5190

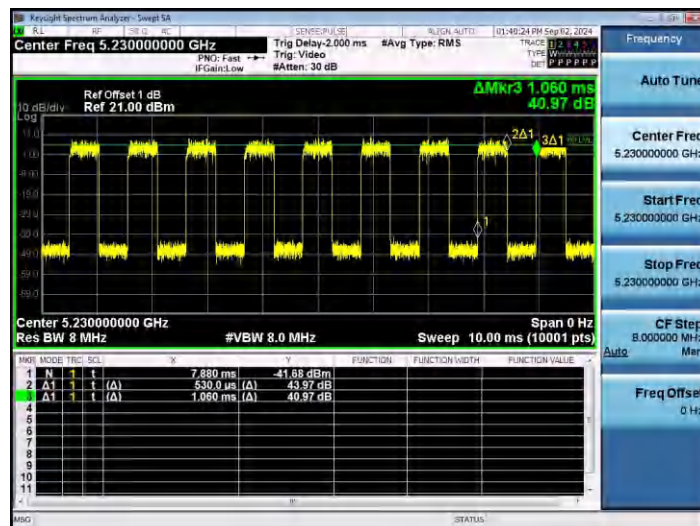


NTNV-11AX40MIMO-Ant2-5190

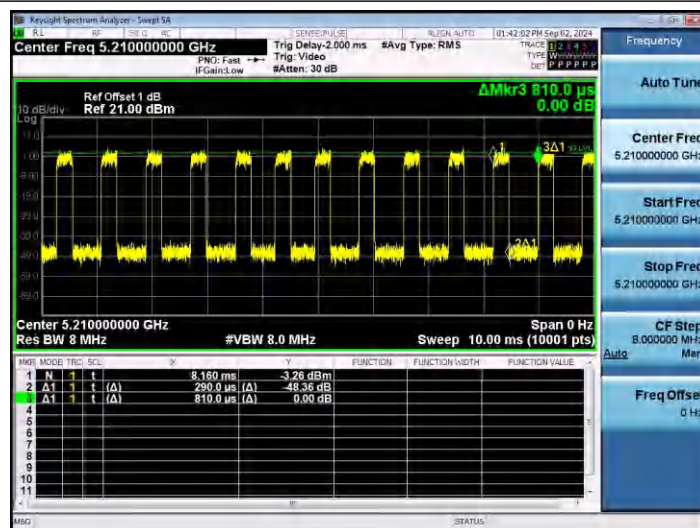




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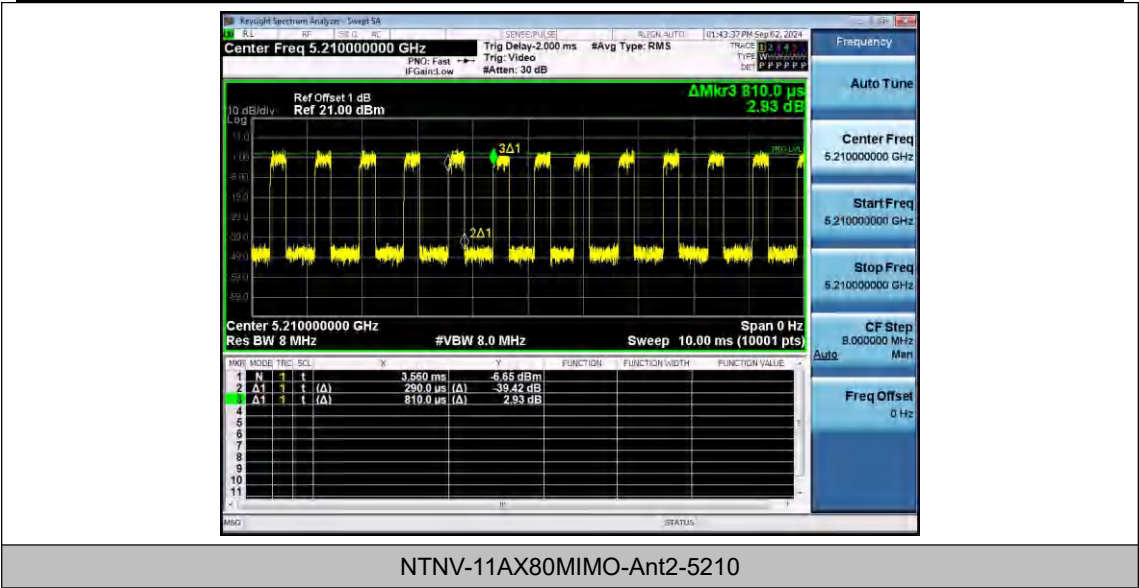


NTNV-11AX40MIMO-Ant2-5230



NTNV-11AX80MIMO-Ant1-5210





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Appendix C: Maximum Conducted AV Output Power

Test Result AV Power

Test Mode	Antenna	Frequency [MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	12.66	72.02	1.43	14.09	≤23.98	PASS
11A	Ant2	5180	12.81	72.77	1.38	14.19	≤23.98	PASS
11A	Ant1	5200	12.47	72.40	1.40	13.87	≤23.98	PASS
11A	Ant2	5200	12.51	72.54	1.39	13.90	≤23.98	PASS
11A	Ant1	5240	11.68	72.92	1.37	13.05	≤23.98	PASS
11A	Ant2	5240	11.71	72.77	1.38	13.09	≤23.98	PASS
11N20MI MO	Ant1	5180	12.66	71.43	1.46	14.12	≤23.98	PASS
11N20MI MO	Ant2	5180	12.72	71.43	1.46	14.18	≤23.98	PASS
11N20MI MO	total	5180	---	---	---	17.16	≤23.36	PASS
11N20MI MO	Ant1	5200	12.39	71.04	1.48	13.87	≤23.98	PASS
11N20MI MO	Ant2	5200	12.43	71.43	1.46	13.89	≤23.98	PASS
11N20MI MO	total	5200	---	---	---	16.89	≤23.36	PASS
11N20MI MO	Ant1	5240	11.54	70.65	1.51	13.05	≤23.98	PASS
11N20MI MO	Ant2	5240	11.60	73.03	1.36	12.96	≤23.98	PASS
11N20MI MO	total	5240	---	---	---	16.02	≤23.36	PASS
11N40MI MO	Ant1	5190	12.04	54.62	2.63	14.67	≤23.98	PASS
11N40MI MO	Ant2	5190	11.97	54.70	2.62	14.59	≤23.98	PASS
11N40MI MO	total	5190	---	---	---	17.64	≤23.36	PASS
11N40MI MO	Ant1	5230	11.61	55.17	2.58	14.19	≤23.98	PASS
11N40MI MO	Ant2	5230	11.47	54.17	2.66	14.13	≤23.98	PASS

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11N40MI MO	total	5230	---	---	---	17.17	≤23.36	PASS
11AC20M IMO	Ant1	5180	12.20	70.81	1.50	13.70	≤23.98	PASS
11AC20M IMO	Ant2	5180	12.19	71.04	1.48	13.67	≤23.98	PASS
11AC20M IMO	total	5180	---	---	---	16.70	≤23.36	PASS
11AC20M IMO	Ant1	5200	12.02	71.58	1.45	13.47	≤23.98	PASS
11AC20M IMO	Ant2	5200	11.97	60.37	2.19	14.16	≤23.98	PASS
11AC20M IMO	total	5200	---	---	---	16.84	≤23.36	PASS
11AC20M IMO	Ant1	5240	11.11	70.81	1.50	12.61	≤23.98	PASS
11AC20M IMO	Ant2	5240	11.22	71.58	1.45	12.67	≤23.98	PASS
11AC20M IMO	total	5240	---	---	---	15.65	≤23.36	PASS
11AC40M IMO	Ant1	5190	12.03	54.62	2.63	14.66	≤23.98	PASS
11AC40M IMO	Ant2	5190	11.99	56.03	2.52	14.51	≤23.98	PASS
11AC40M IMO	total	5190	---	---	---	17.60	≤23.36	PASS
11AC40M IMO	Ant1	5230	11.57	54.55	2.63	14.20	≤23.98	PASS
11AC40M IMO	Ant2	5230	11.60	54.62	2.63	14.23	≤23.98	PASS
11AC40M IMO	total	5230	---	---	---	17.23	≤23.36	PASS
11AC80M IMO	Ant1	5210	11.52	43.24	3.64	15.16	≤23.98	PASS
11AC80M IMO	Ant2	5210	11.45	44.59	3.51	14.96	≤23.98	PASS
11AC80M IMO	total	5210	---	---	---	18.07	≤23.36	PASS
11AX20M IMO	Ant1	5180	13.40	66.01	1.80	15.20	≤23.98	PASS
11AX20M IMO	Ant2	5180	13.52	63.35	1.98	15.50	≤23.98	PASS
11AX20M	total	5180	---	---	---	18.36	≤23.36	PASS

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IMO								
11AX20M IMO	Ant1	5200	12.10	66.01	1.80	13.90	≤ 23.98	PASS
11AX20M IMO	Ant2	5200	12.20	66.23	1.79	13.99	≤ 23.98	PASS
11AX20M IMO	total	5200	---	---	---	16.96	≤ 23.36	PASS
11AX20M IMO	Ant1	5240	11.36	65.38	1.85	13.21	≤ 23.98	PASS
11AX20M IMO	Ant2	5240	11.37	66.01	1.80	13.17	≤ 23.98	PASS
11AX20M IMO	total	5240	---	---	---	16.20	≤ 23.36	PASS
11AX40M IMO	Ant1	5190	12.17	50.94	2.93	15.10	≤ 23.98	PASS
11AX40M IMO	Ant2	5190	12.15	50.94	2.93	15.08	≤ 23.98	PASS
11AX40M IMO	total	5190	---	---	---	18.10	≤ 23.36	PASS
11AX40M IMO	Ant1	5230	10.73	36.30	4.40	15.13	≤ 23.98	PASS
11AX40M IMO	Ant2	5230	10.65	50.00	3.01	13.66	≤ 23.98	PASS
11AX40M IMO	total	5230	---	---	---	17.47	≤ 23.36	PASS
11AX80M IMO	Ant1	5210	10.58	35.80	4.46	15.04	≤ 23.98	PASS
11AX80M IMO	Ant2	5210	10.44	35.80	4.46	14.90	≤ 23.98	PASS
11AX80M IMO	total	5210	---	---	---	17.98	≤ 23.36	PASS

Note: 1.The Duty Cycle Factor and cable loss are compensated in the graph.

2. As Directional gain = $10 \log[(10G1/20 + 10G2/20) 2 / NANT]$ dBi=6.62>6dBi,
so limit=23.98-(6.62-6.00)=23.36dBm.

3. MIMO= $10 * \log((10^{ANT1/10}) + 10^{(ANT2/10)})$

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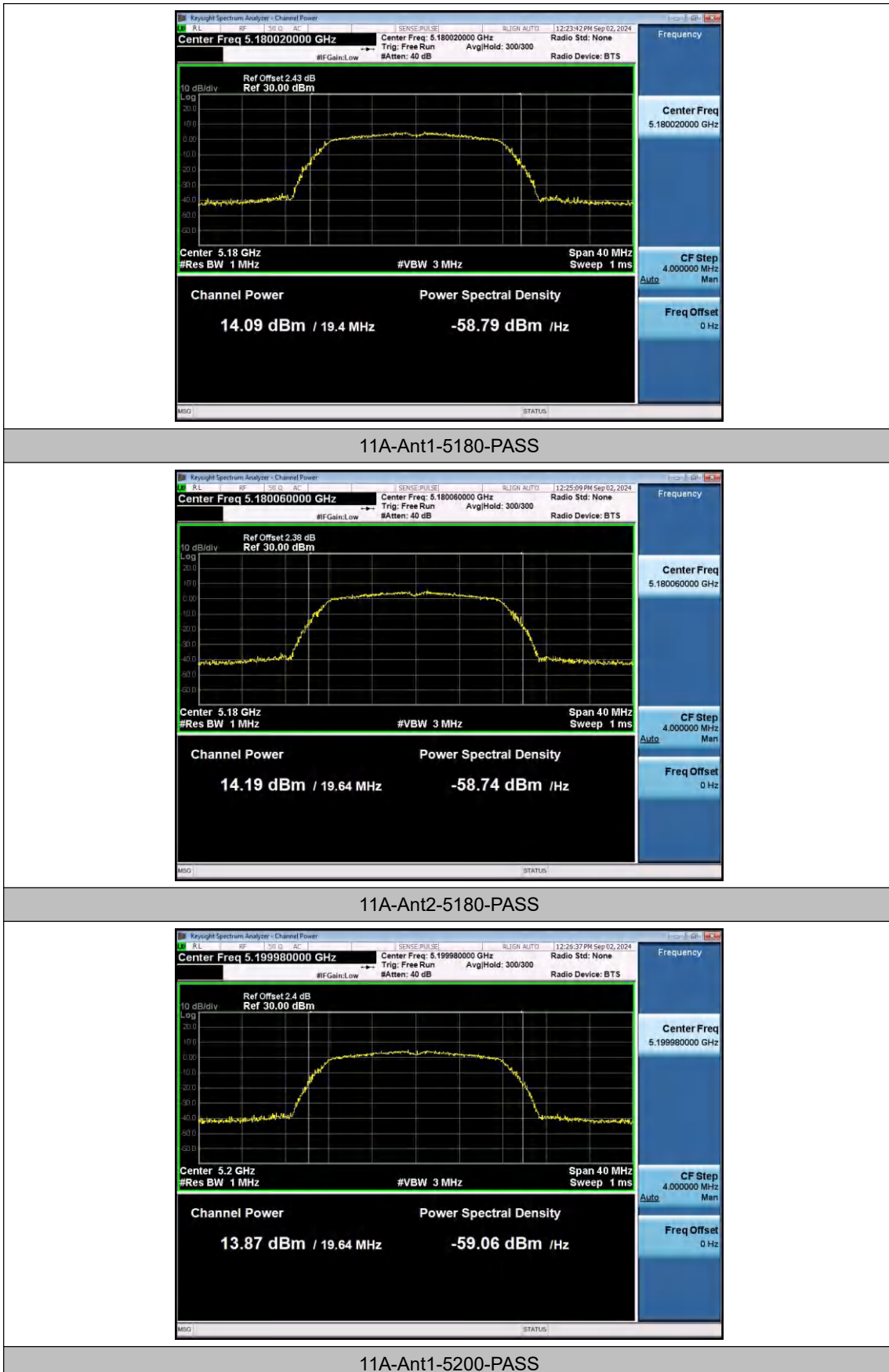
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Test Graphs AV Power

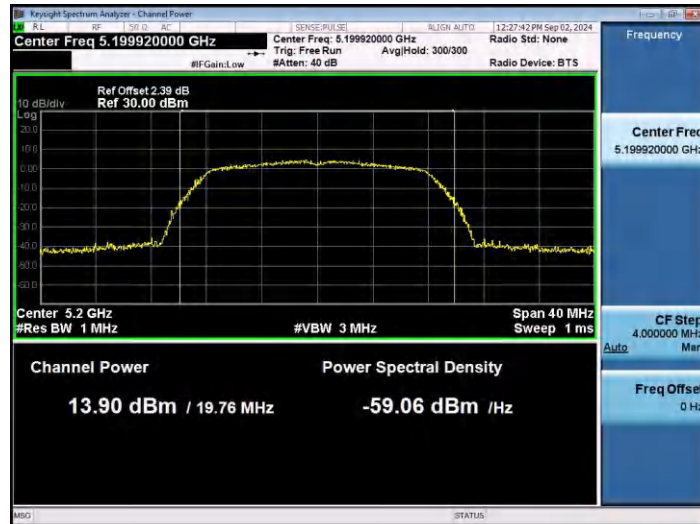


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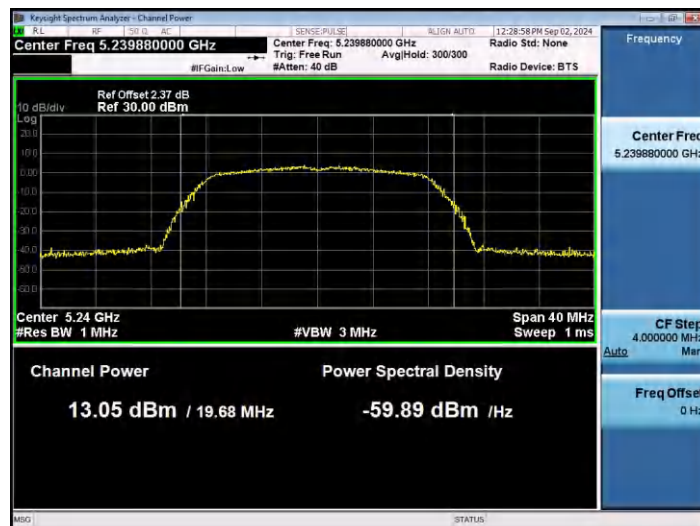
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
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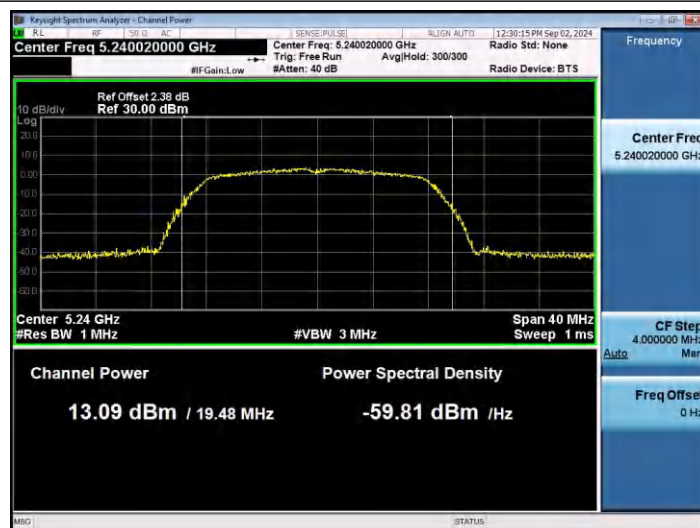




11A-Ant2-5200-PASS



11A-Ant1-5240-PASS



11A-Ant2-5240-PASS

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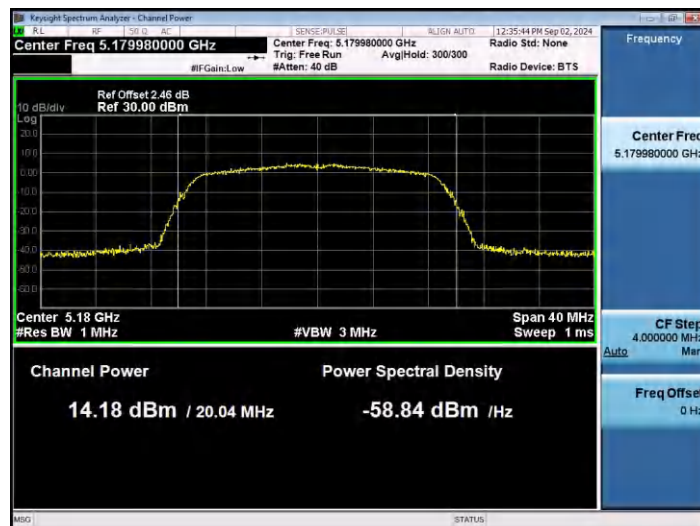
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
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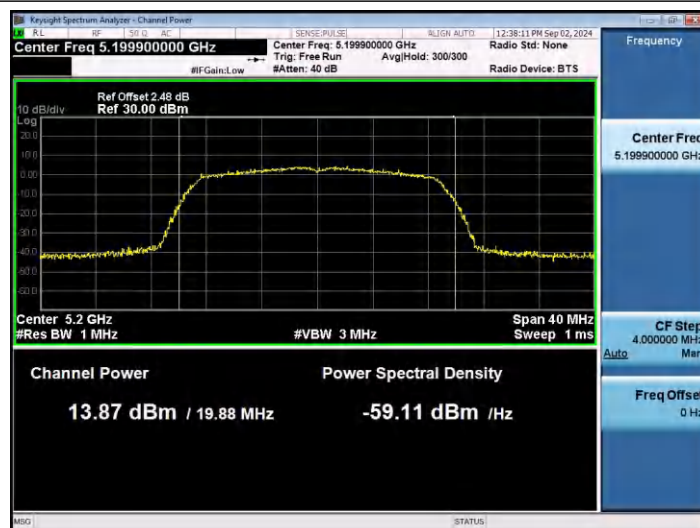




11N20MIMO-Ant1-5180-PASS

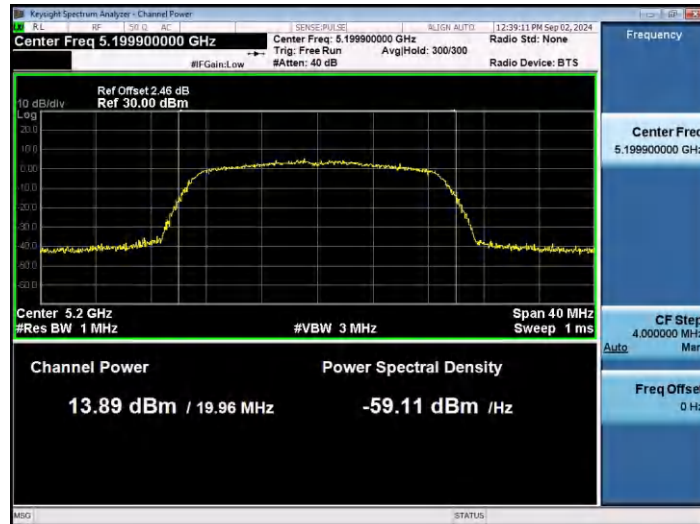


11N20MIMO-Ant2-5180-PASS

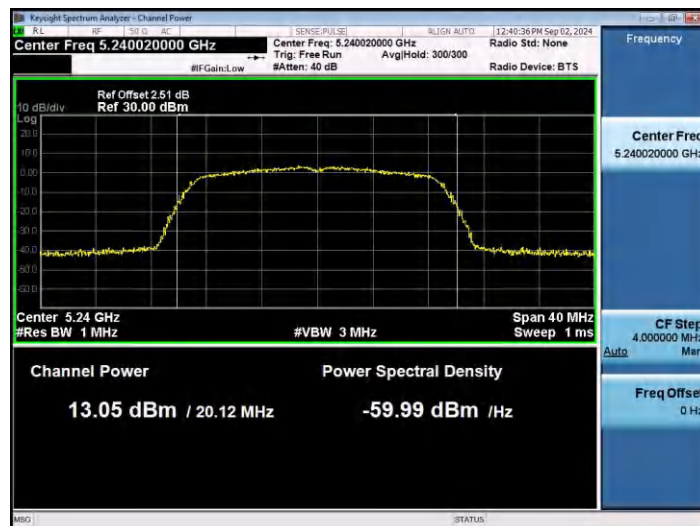


11N20MIMO-Ant1-5200-PASS

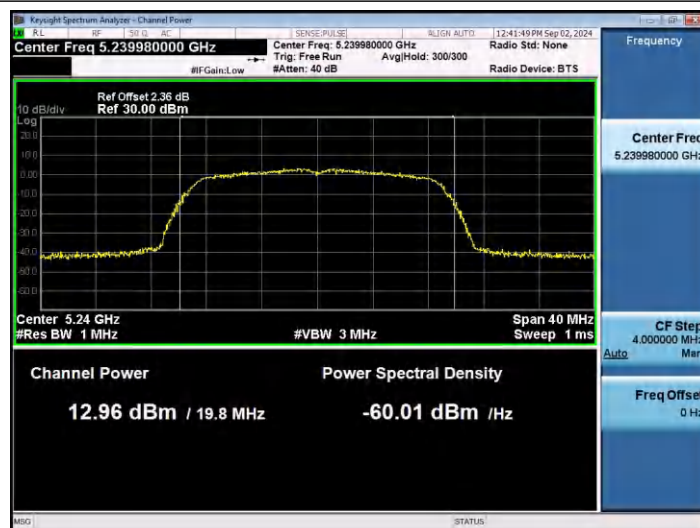




11N20MIMO-Ant2-5200-PASS



11N20MIMO-Ant1-5240-PASS



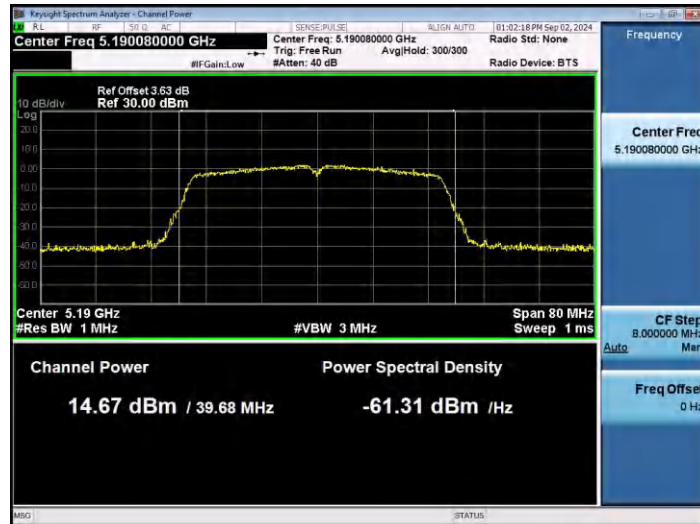
11N20MIMO-Ant2-5240-PASS

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11N40MIMO-Ant1-5190-PASS

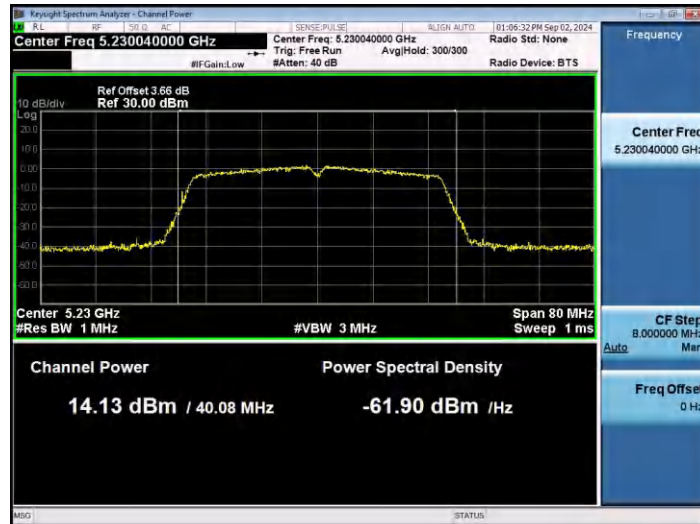


11N40MIMO-Ant2-5190-PASS

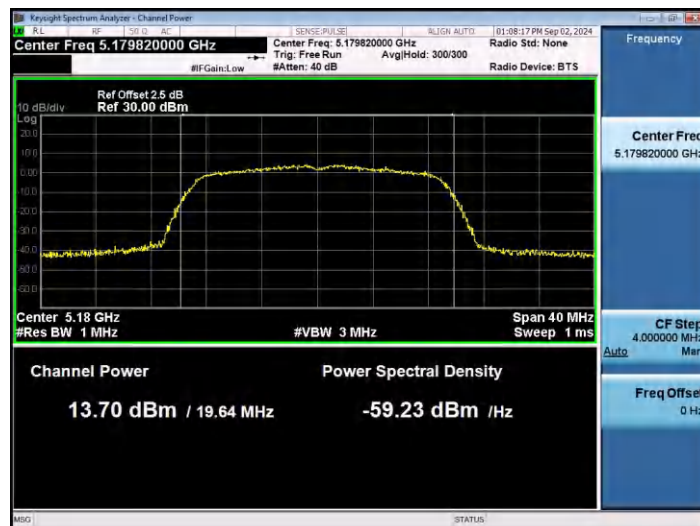


11N40MIMO-Ant1-5230-PASS

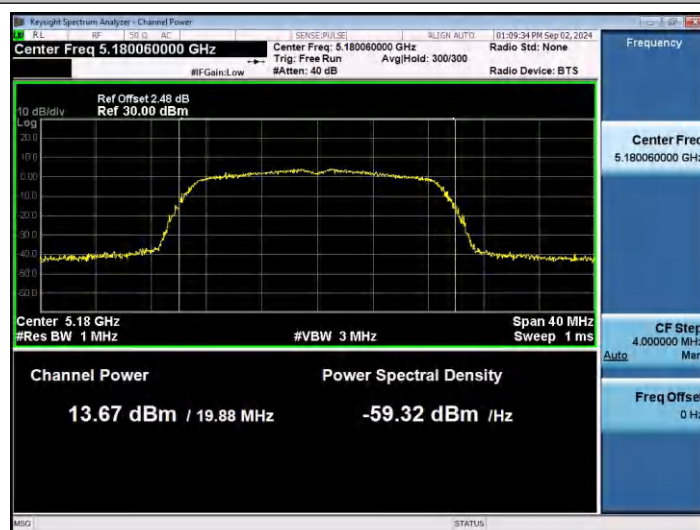




11N40MIMO-Ant2-5230-PASS

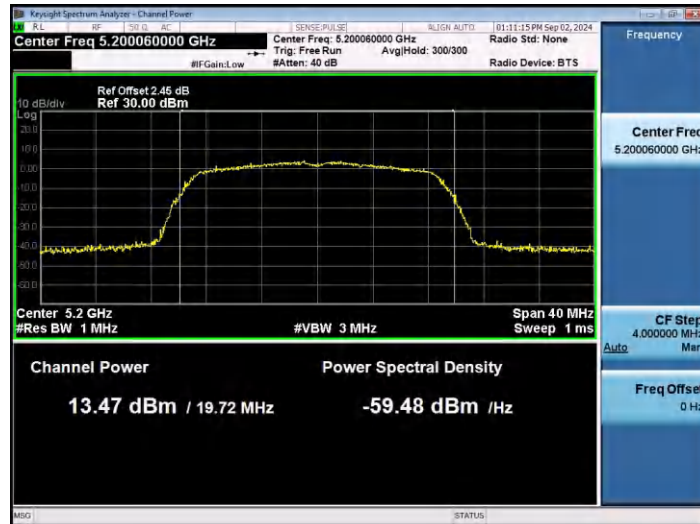


11AC20MIMO-Ant1-5180-PASS

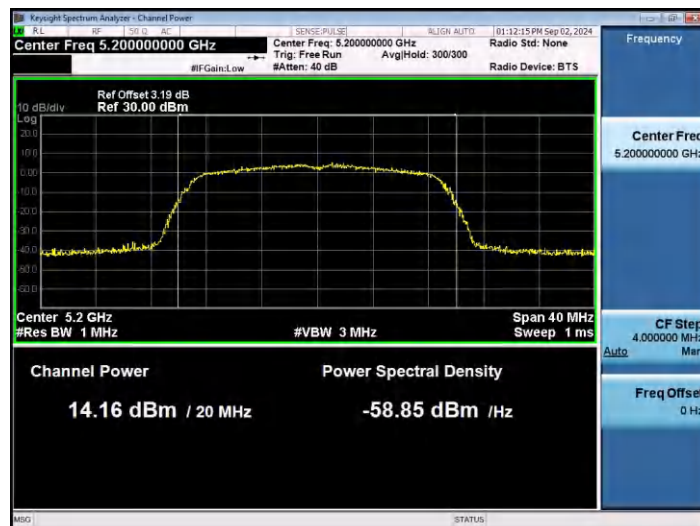


11AC20MIMO-Ant2-5180-PASS

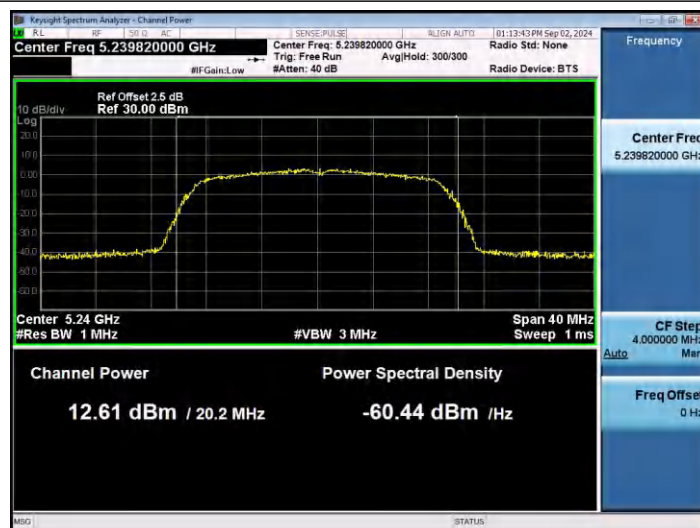




11AC20MIMO-Ant1-5200-PASS

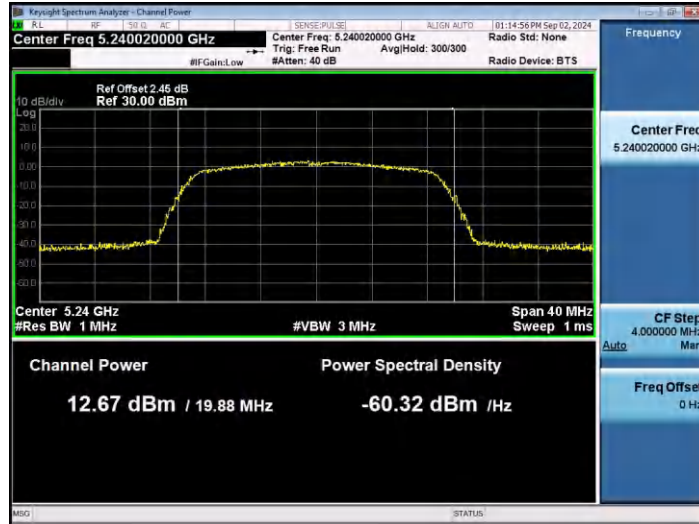


11AC20MIMO-Ant2-5200-PASS

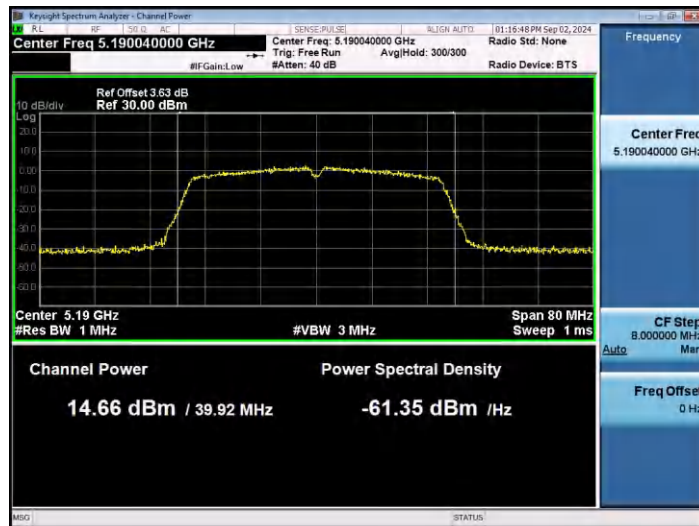


11AC20MIMO-Ant1-5240-PASS





11AC20MIMO-Ant2-5240-PASS

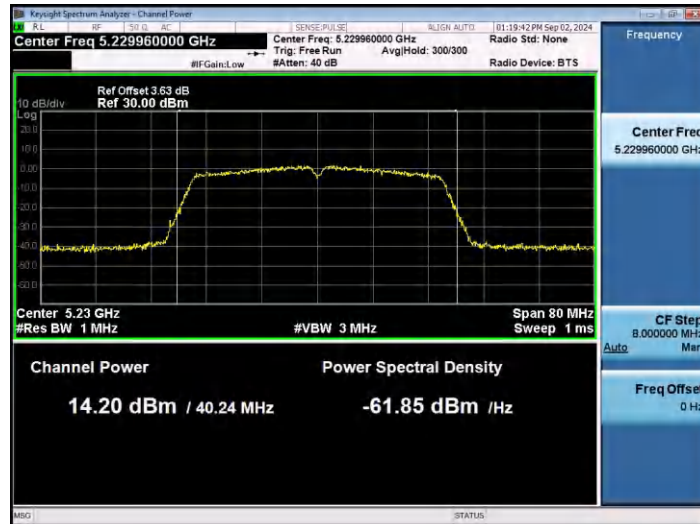


11AC40MIMO-Ant1-5190-PASS



11AC40MIMO-Ant2-5190-PASS

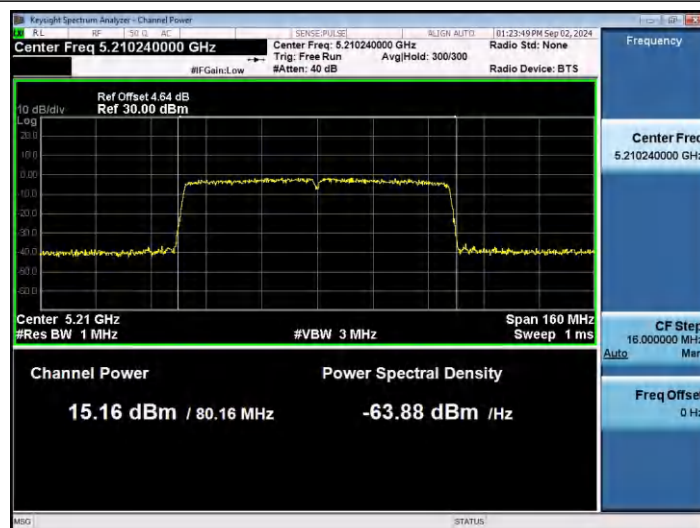




11AC40MIMO-Ant1-5230-PASS

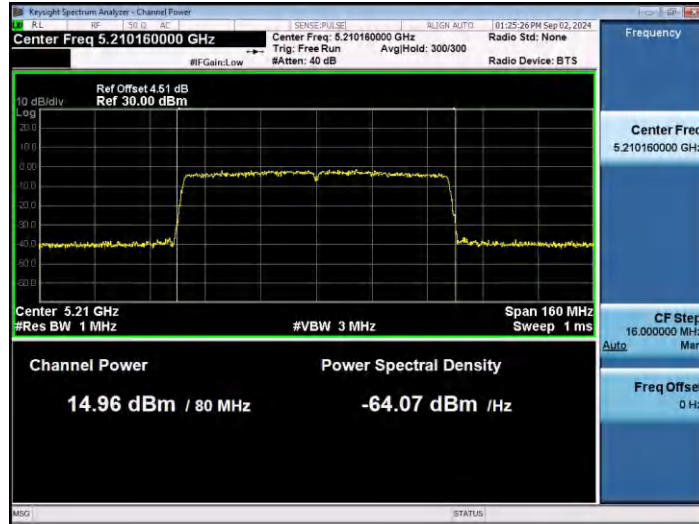


11AC40MIMO-Ant2-5230-PASS

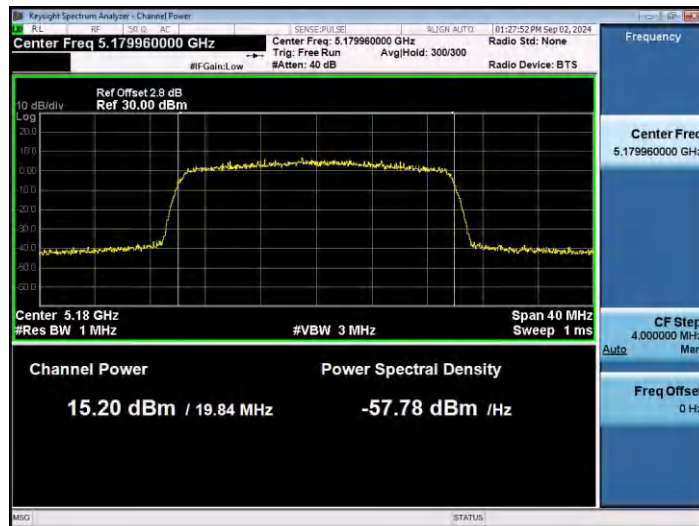


11AC80MIMO-Ant1-5210-PASS

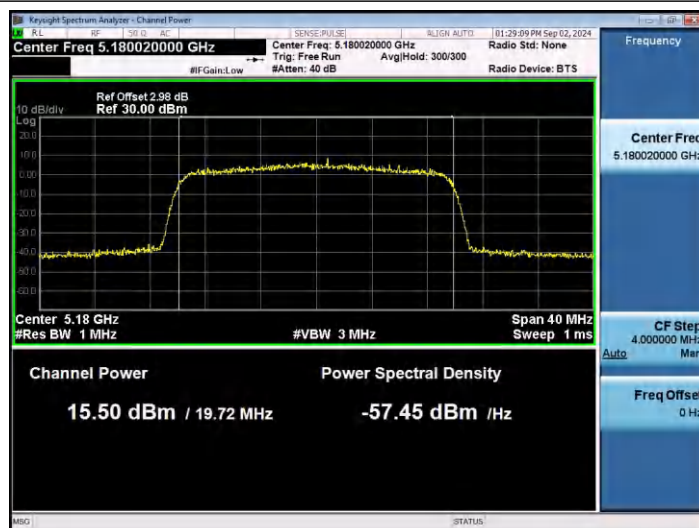




11AC80MIMO-Ant2-5210-PASS

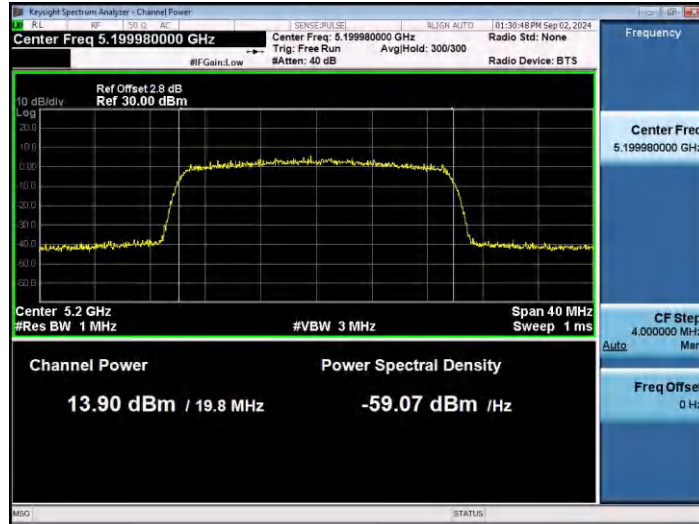


11AX20MIMO-Ant1-5180-PASS



11AX20MIMO-Ant2-5180-PASS





11AX20MIMO-Ant1-5200-PASS

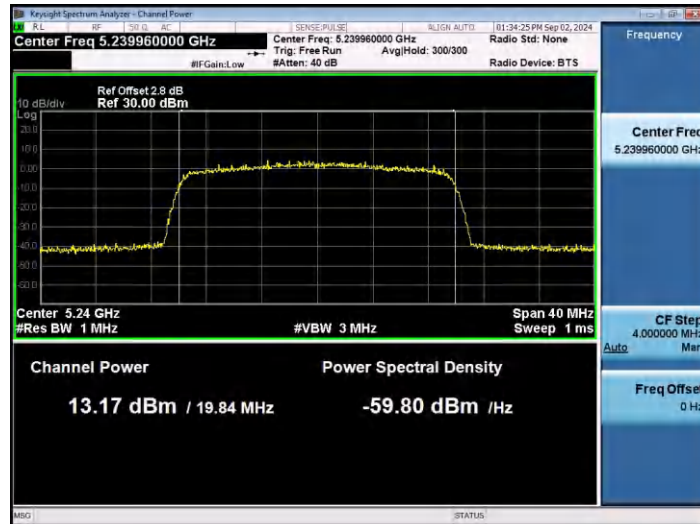


11AX20MIMO-Ant2-5200-PASS

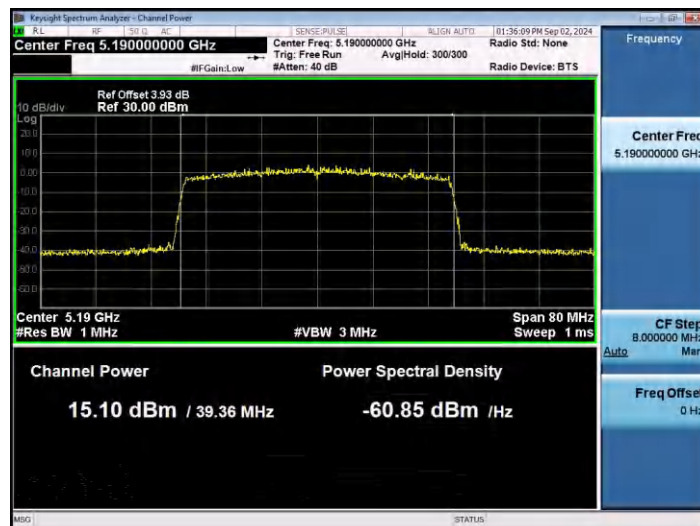


11AX20MIMO-Ant1-5240-PASS

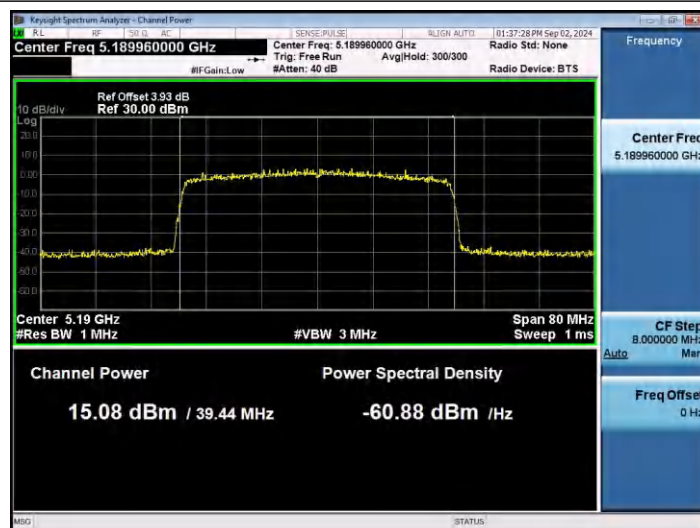




11AX20MIMO-Ant2-5240-PASS

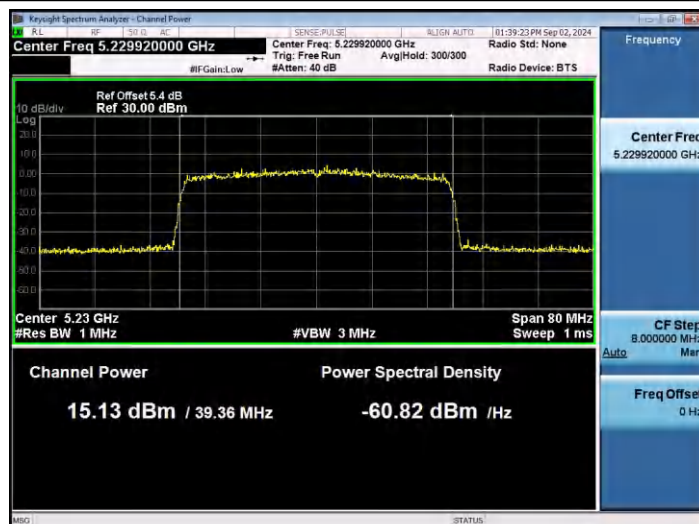


11AX40MIMO-Ant1-5190-PASS



11AX40MIMO-Ant2-5190-PASS

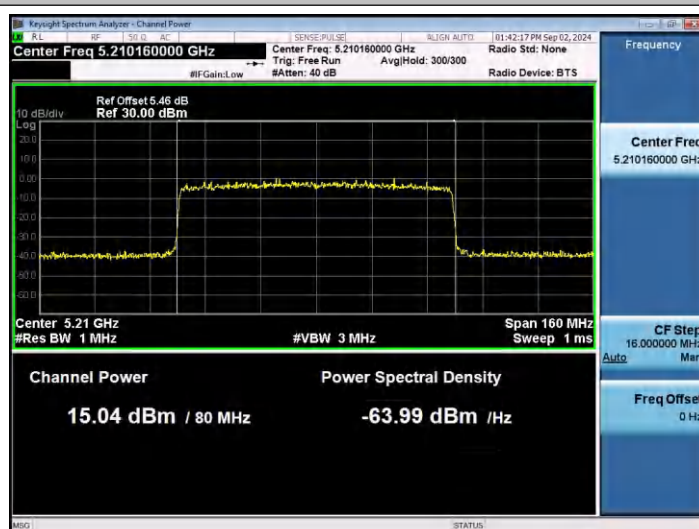




11AX40MIMO-Ant1-5230-PASS



11AX40MIMO-Ant2-5230-PASS



11AX80MIMO-Ant1-5210-PASS

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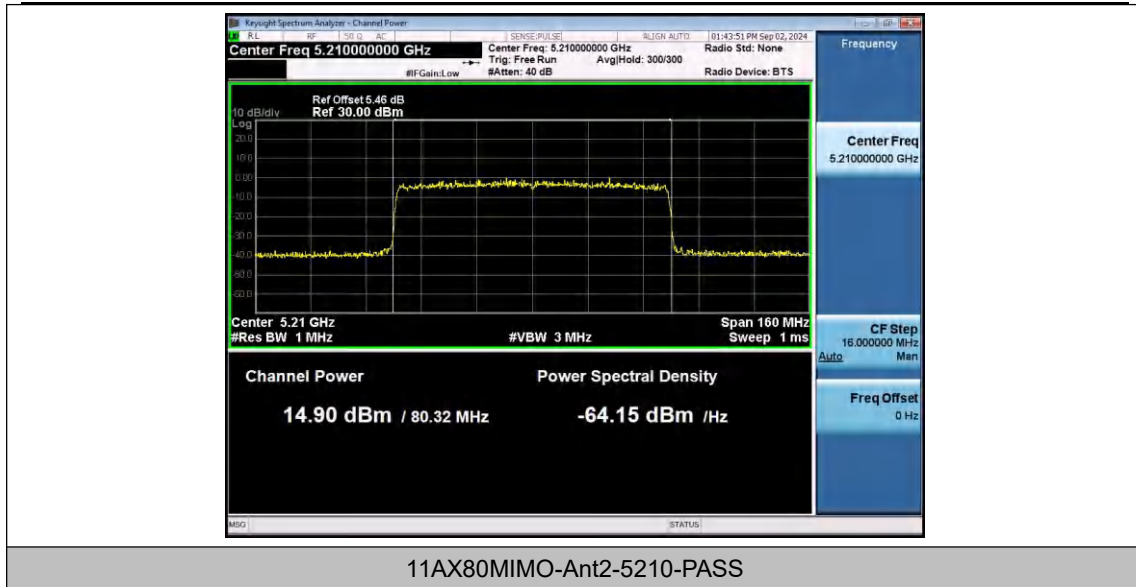
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Appendix D: Maximum Power Spectral Density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-2.01	≤11.00	PASS
11A	Ant2	5180	-1.99	≤11.00	PASS
11A	Ant1	5200	-1.80	≤11.00	PASS
11A	Ant2	5200	-2.14	≤11.00	PASS
11A	Ant1	5240	-2.93	≤11.00	PASS
11A	Ant2	5240	-2.43	≤11.00	PASS
11N20MIMO	Ant1	5180	-1.91	≤11.00	PASS
11N20MIMO	Ant2	5180	-2.23	≤11.00	PASS
11N20MIMO	total	5180	0.94	≤10.38	PASS
11N20MIMO	Ant1	5200	-2.15	≤11.00	PASS
11N20MIMO	Ant2	5200	-2.36	≤11.00	PASS
11N20MIMO	total	5200	0.76	≤10.38	PASS
11N20MIMO	Ant1	5240	-2.82	≤11.00	PASS
11N20MIMO	Ant2	5240	-3.40	≤11.00	PASS
11N20MIMO	total	5240	-0.09	≤10.38	PASS
11N40MIMO	Ant1	5190	-5.79	≤11.00	PASS
11N40MIMO	Ant2	5190	-4.79	≤11.00	PASS
11N40MIMO	total	5190	-2.25	≤10.38	PASS
11N40MIMO	Ant1	5230	-6.62	≤11.00	PASS
11N40MIMO	Ant2	5230	-7.07	≤11.00	PASS
11N40MIMO	total	5230	-3.83	≤10.38	PASS
11AC20MIMO	Ant1	5180	-2.45	≤11.00	PASS
11AC20MIMO	Ant2	5180	-2.33	≤11.00	PASS
11AC20MIMO	total	5180	0.62	≤10.38	PASS
11AC20MIMO	Ant1	5200	-2.60	≤11.00	PASS
11AC20MIMO	Ant2	5200	-1.98	≤11.00	PASS
11AC20MIMO	total	5200	0.73	≤10.38	PASS
11AC20MIMO	Ant1	5240	-3.16	≤11.00	PASS
11AC20MIMO	Ant2	5240	-3.51	≤11.00	PASS
11AC20MIMO	total	5240	-0.32	≤10.38	PASS
11AC40MIMO	Ant1	5190	-4.60	≤11.00	PASS
11AC40MIMO	Ant2	5190	-5.49	≤11.00	PASS
11AC40MIMO	total	5190	-2.01	≤10.38	PASS
11AC40MIMO	Ant1	5230	-5.21	≤11.00	PASS
11AC40MIMO	Ant2	5230	-5.93	≤11.00	PASS
11AC40MIMO	total	5230	-2.54	≤10.38	PASS
11AC80MIMO	Ant1	5210	-9.47	≤11.00	PASS

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11AC80MIMO	Ant2	5210	-9.85	≤11.00	PASS
11AC80MIMO	total	5210	-6.65	≤10.38	PASS
11AX20MIMO	Ant1	5180	-1.73	≤11.00	PASS
11AX20MIMO	Ant2	5180	-3.18	≤11.00	PASS
11AX20MIMO	total	5180	0.62	≤10.38	PASS
11AX20MIMO	Ant1	5200	-3.34	≤11.00	PASS
11AX20MIMO	Ant2	5200	-3.66	≤11.00	PASS
11AX20MIMO	total	5200	-0.49	≤10.38	PASS
11AX20MIMO	Ant1	5240	-3.90	≤11.00	PASS
11AX20MIMO	Ant2	5240	-4.26	≤11.00	PASS
11AX20MIMO	total	5240	-1.07	≤10.38	PASS
11AX40MIMO	Ant1	5190	-6.78	≤11.00	PASS
11AX40MIMO	Ant2	5190	-6.63	≤11.00	PASS
11AX40MIMO	total	5190	-3.69	≤10.38	PASS
11AX40MIMO	Ant1	5230	-6.92	≤11.00	PASS
11AX40MIMO	Ant2	5230	-8.26	≤11.00	PASS
11AX40MIMO	total	5230	-4.53	≤10.38	PASS
11AX80MIMO	Ant1	5210	-12.03	≤11.00	PASS
11AX80MIMO	Ant2	5210	-11.31	≤11.00	PASS
11AX80MIMO	total	5210	-8.64	≤10.38	PASS

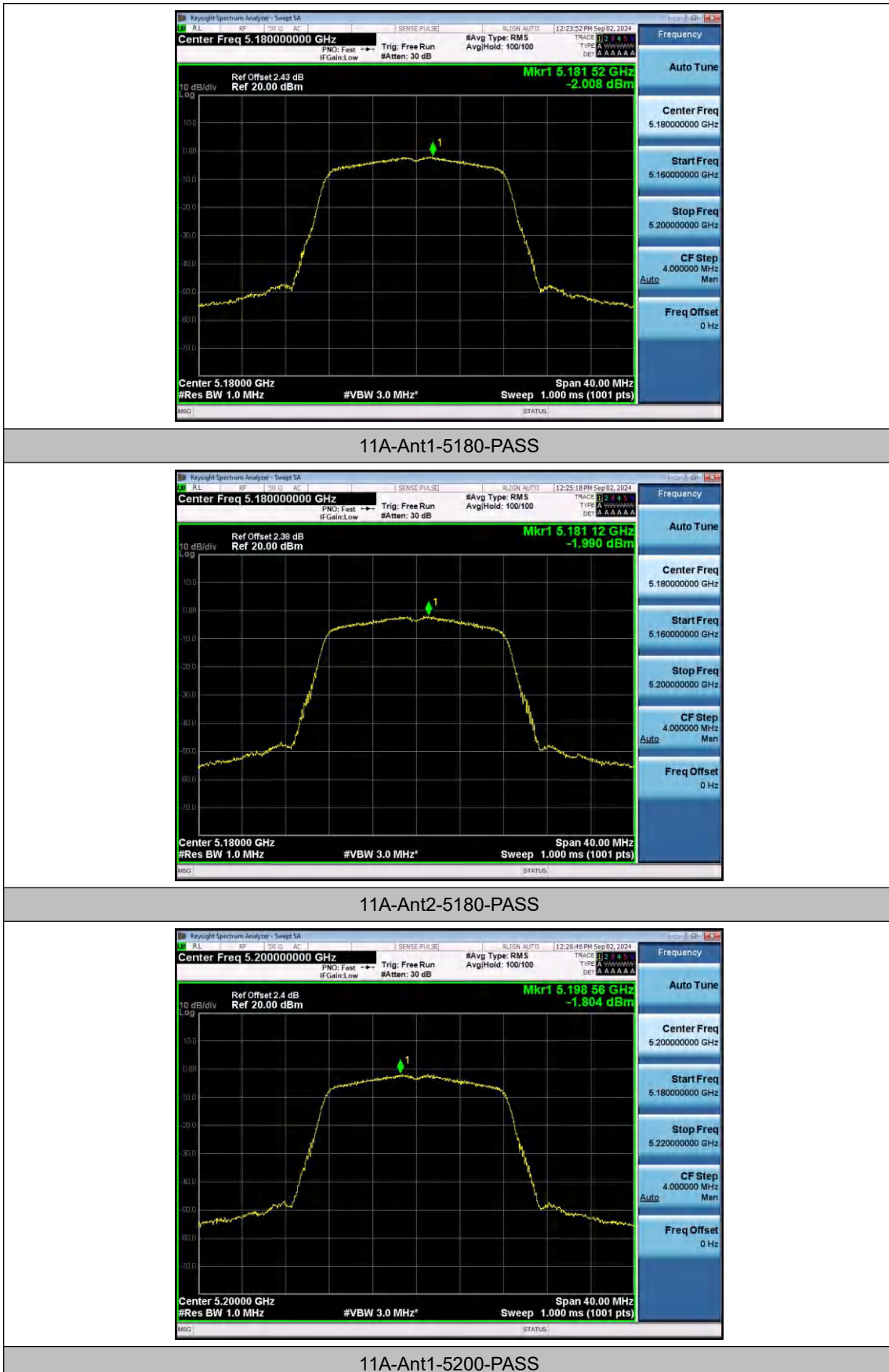
Note: 1.The Duty Cycle Factor and cable loss are compensated in the graph.

2. As Directional gain = $10 \log[(10G1/20 + 10G2/20) 2 / NANT]$ dBi=6.62>6dBi,
so limit=11-(6.62-6.00)=10.38dBm/MHz.

3. MIMO= $10 * \log((10^{ANT1/10}) + 10^{(ANT2/10)})$



Test Graphs



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11A-Ant2-5200-PASS



11A-Ant1-5240-PASS



11A-Ant2-5240-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

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11N40MIMO-Ant1-5190-PASS



11N40MIMO-Ant2-5190-PASS



11N40MIMO-Ant1-5230-PASS

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11N40MIMO-Ant2-5230-PASS



11AC20MIMO-Ant1-5180-PASS



11AC20MIMO-Ant2-5180-PASS





11AC20MIMO-Ant1-5200-PASS

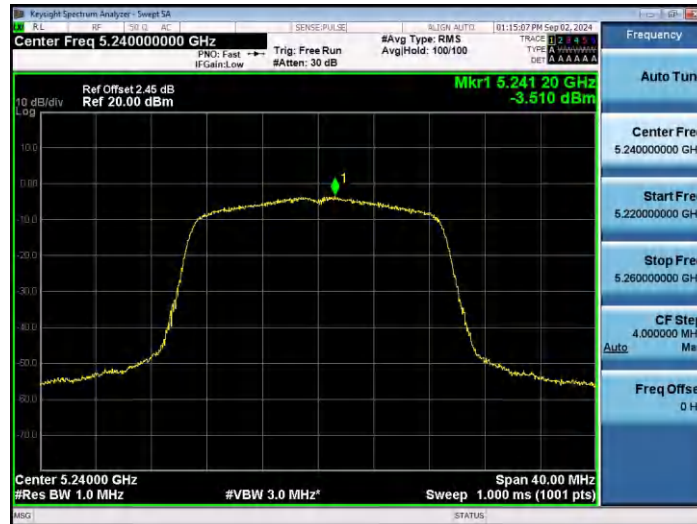


11AC20MIMO-Ant2-5200-PASS



11AC20MIMO-Ant1-5240-PASS





11AC20MIMO-Ant2-5240-PASS

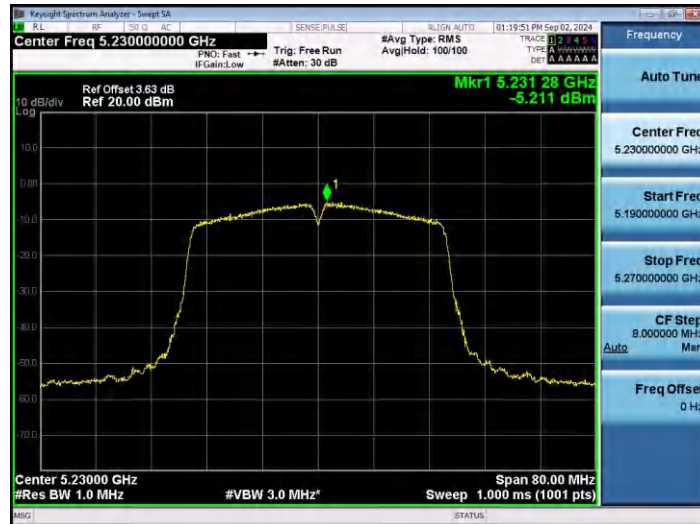


11AC40MIMO-Ant1-5190-PASS



11AC40MIMO-Ant2-5190-PASS





11AC40MIMO-Ant1-5230-PASS

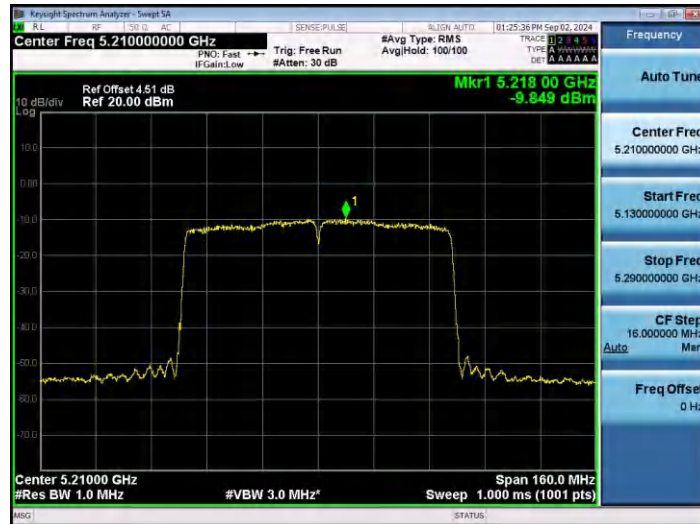


11AC40MIMO-Ant2-5230-PASS



11AC80MIMO-Ant1-5210-PASS





11AC80MIMO-Ant2-5210-PASS



11AX20MIMO-Ant1-5180-PASS



11AX20MIMO-Ant2-5180-PASS





11AX20MIMO-Ant1-5200-PASS



11AX20MIMO-Ant2-5200-PASS

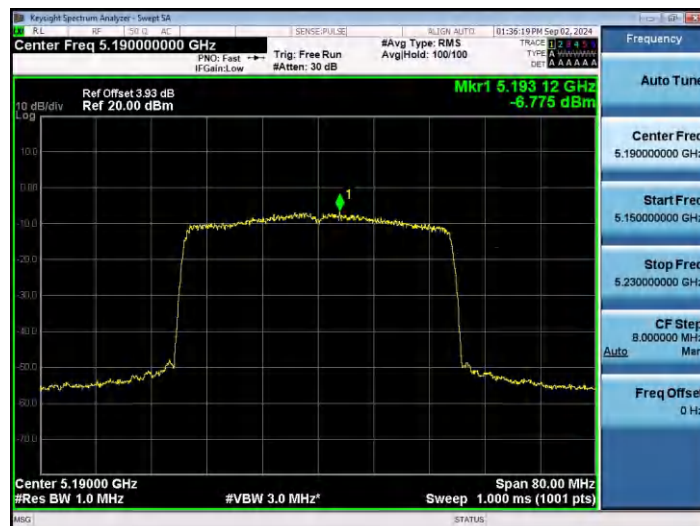


11AX20MIMO-Ant1-5240-PASS





11AX20MIMO-Ant2-5240-PASS



11AX40MIMO-Ant1-5190-PASS



11AX40MIMO-Ant2-5190-PASS

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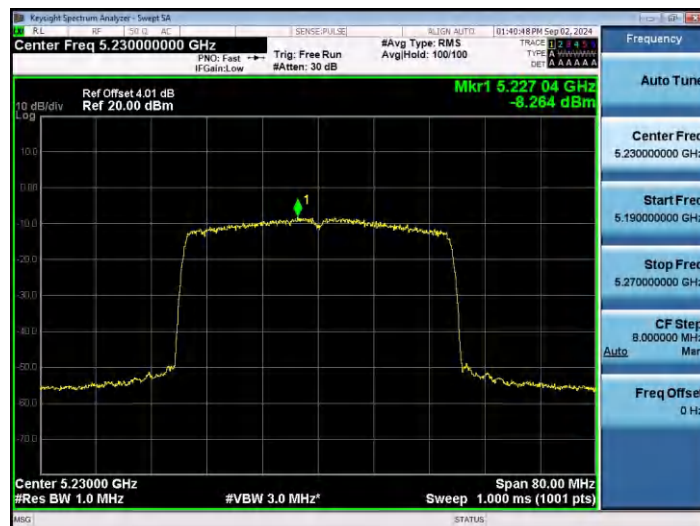
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
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11AX40MIMO-Ant1-5230-PASS



11AX40MIMO-Ant2-5230-PASS



11AX80MIMO-Ant1-5210-PASS

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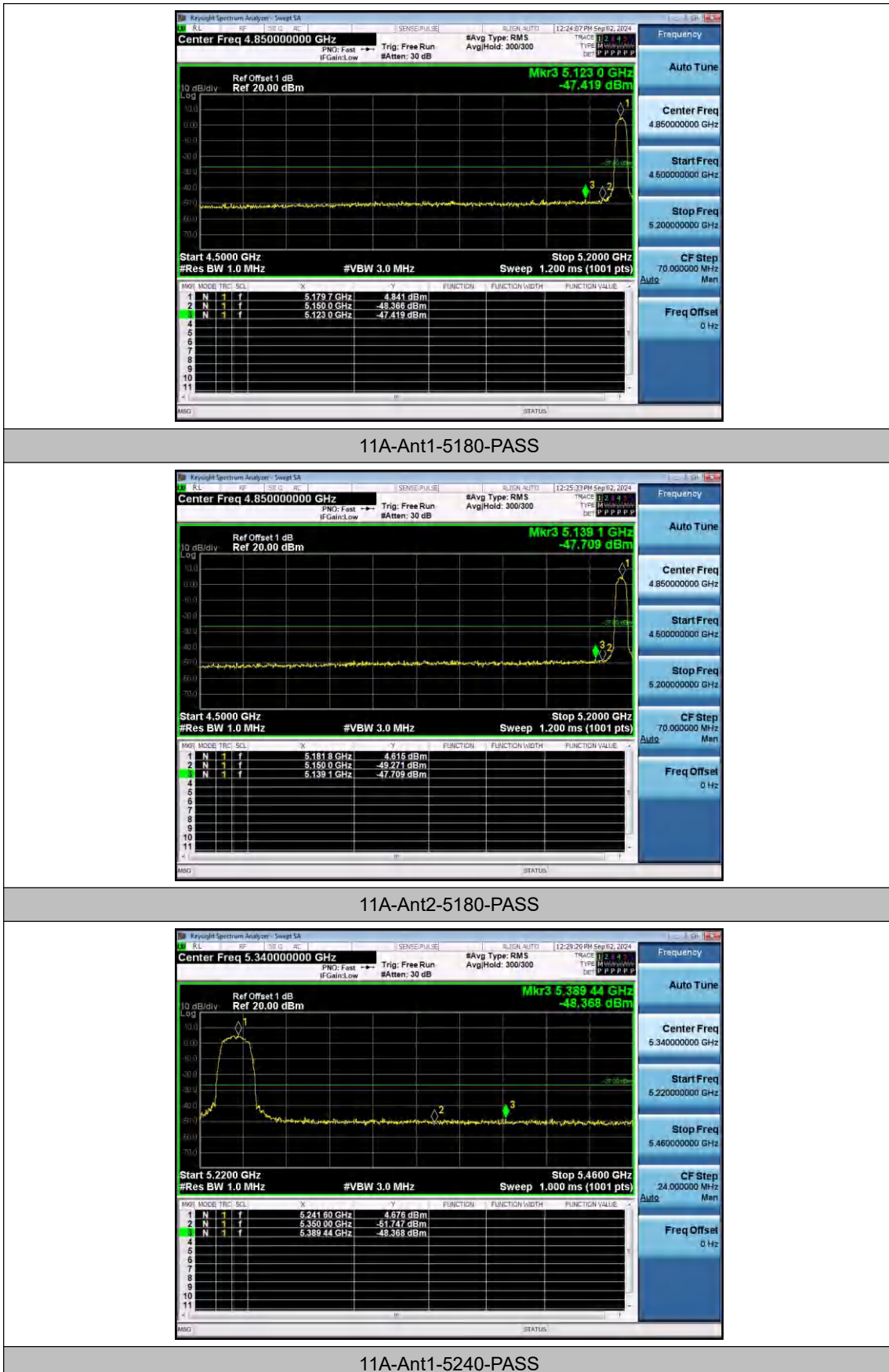
Appendix E: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-47.42	≤-27	PASS
11A	Ant2	Low	5180	-47.71	≤-27	PASS
11A	Ant1	High	5240	-48.37	≤-27	PASS
11A	Ant2	High	5240	-48.62	≤-27	PASS
11N20MIMO	Ant1	Low	5180	-47.77	≤-27	PASS
11N20MIMO	Ant2	Low	5180	-46.58	≤-27	PASS
11N20MIMO	Ant1	High	5240	-48.5	≤-27	PASS
11N20MIMO	Ant2	High	5240	-48.51	≤-27	PASS
11N40MIMO	Ant1	Low	5190	-47.09	≤-27	PASS
11N40MIMO	Ant2	Low	5190	-46.73	≤-27	PASS
11N40MIMO	Ant1	High	5230	-47.6	≤-27	PASS
11N40MIMO	Ant2	High	5230	-48.39	≤-27	PASS
11AC20MIMO	Ant1	Low	5180	-47.32	≤-27	PASS
11AC20MIMO	Ant2	Low	5180	-47.2	≤-27	PASS
11AC20MIMO	Ant1	High	5240	-48.49	≤-27	PASS
11AC20MIMO	Ant2	High	5240	-48.11	≤-27	PASS
11AC40MIMO	Ant1	Low	5190	-46.77	≤-27	PASS
11AC40MIMO	Ant2	Low	5190	-47.77	≤-27	PASS
11AC40MIMO	Ant1	High	5230	-48.48	≤-27	PASS
11AC40MIMO	Ant2	High	5230	-48.3	≤-27	PASS
11AC80MIMO	Ant1	Low	5210	-45.77	≤-27	PASS
11AC80MIMO	Ant1	High	5210	-48.32	≤-27	PASS
11AC80MIMO	Ant2	Low	5210	-45.73	≤-27	PASS
11AC80MIMO	Ant2	High	5210	-48.36	≤-27	PASS
11AX20MIMO	Ant1	Low	5180	-47.27	≤-27	PASS
11AX20MIMO	Ant2	Low	5180	-47.24	≤-27	PASS
11AX20MIMO	Ant1	High	5240	-47.96	≤-27	PASS
11AX20MIMO	Ant2	High	5240	-47.56	≤-27	PASS
11AX40MIMO	Ant1	Low	5190	-46.83	≤-27	PASS
11AX40MIMO	Ant2	Low	5190	-46.91	≤-27	PASS
11AX40MIMO	Ant1	High	5230	-48.2	≤-27	PASS
11AX40MIMO	Ant2	High	5230	-47.63	≤-27	PASS
11AX80MIMO	Ant1	Low	5210	-46.55	≤-27	PASS
11AX80MIMO	Ant1	High	5210	-48.36	≤-27	PASS
11AX80MIMO	Ant2	Low	5210	-45.94	≤-27	PASS
11AX80MIMO	Ant2	High	5210	-48.15	≤-27	PASS



Test Graphs B1

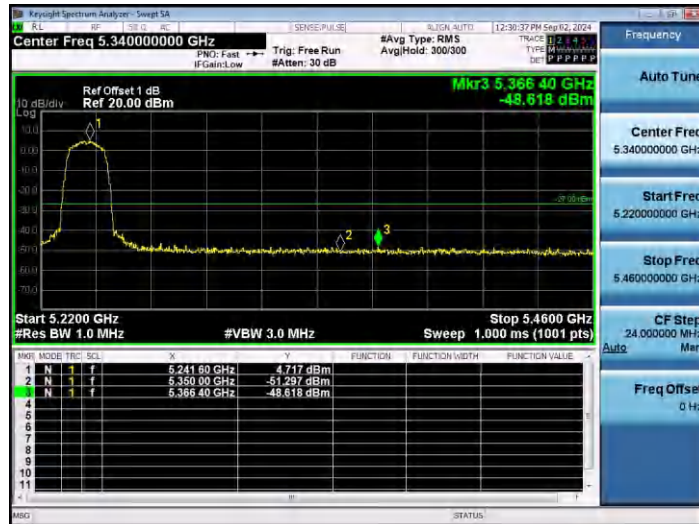


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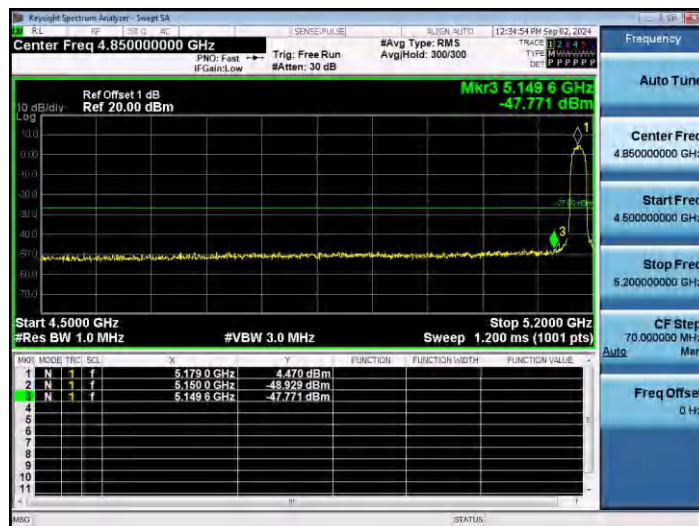
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
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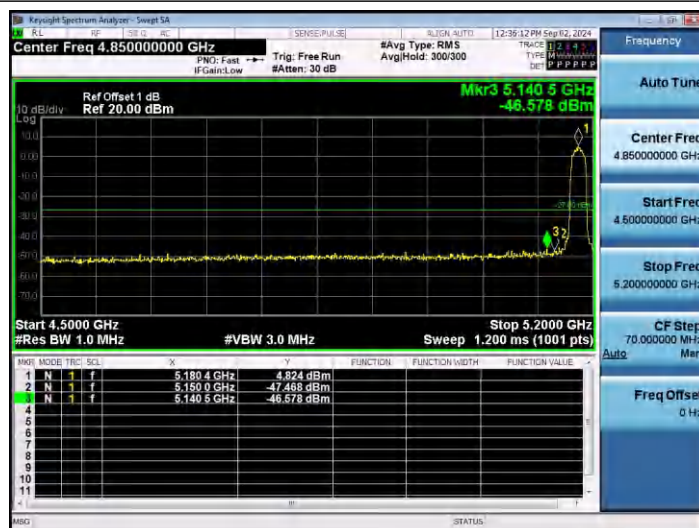




11A-Ant2-5240-PASS

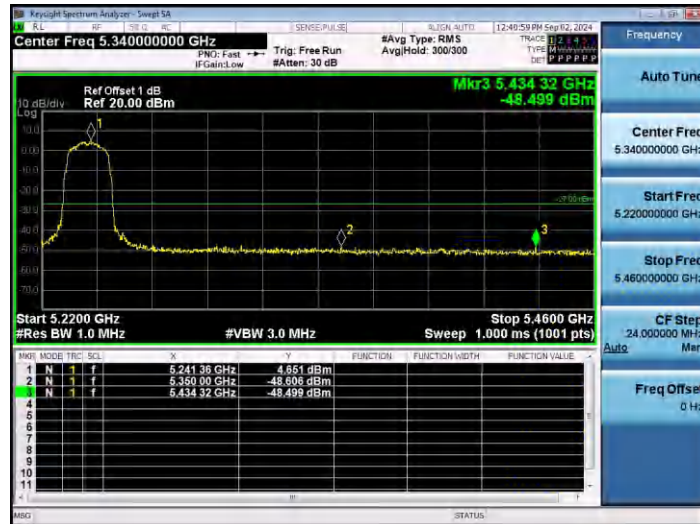


11N20MIMO-Ant1-5180-PASS

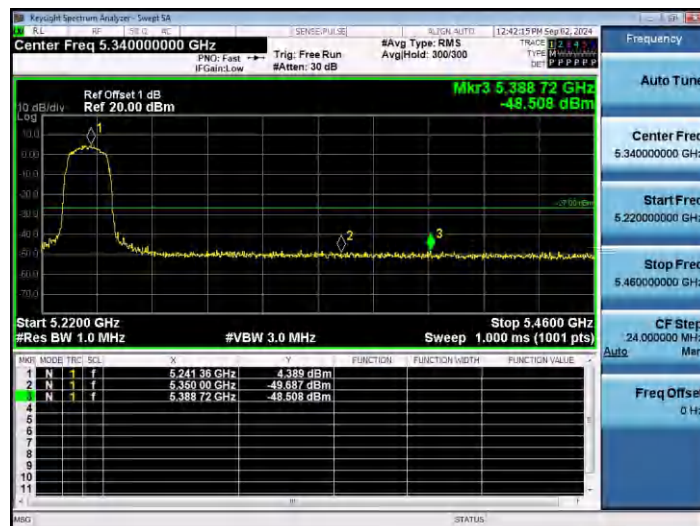


11N20MIMO-Ant2-5180-PASS

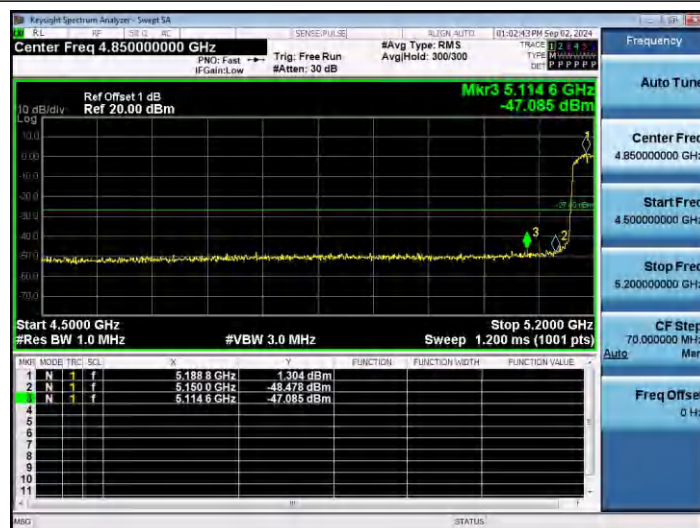




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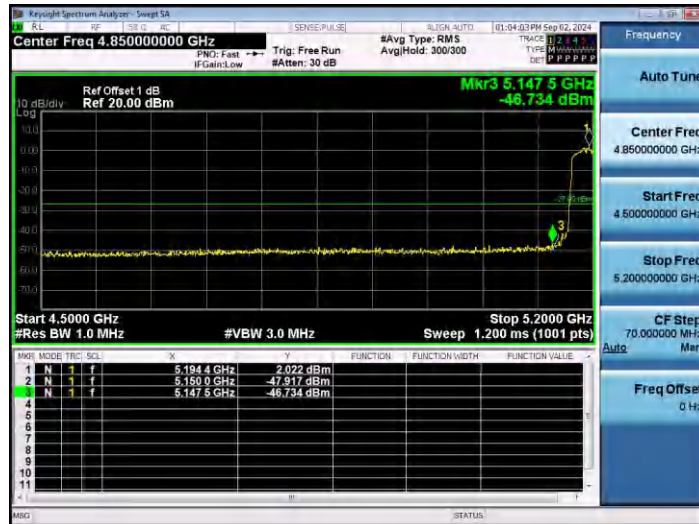


11N20MIMO-Ant2-5240-PASS

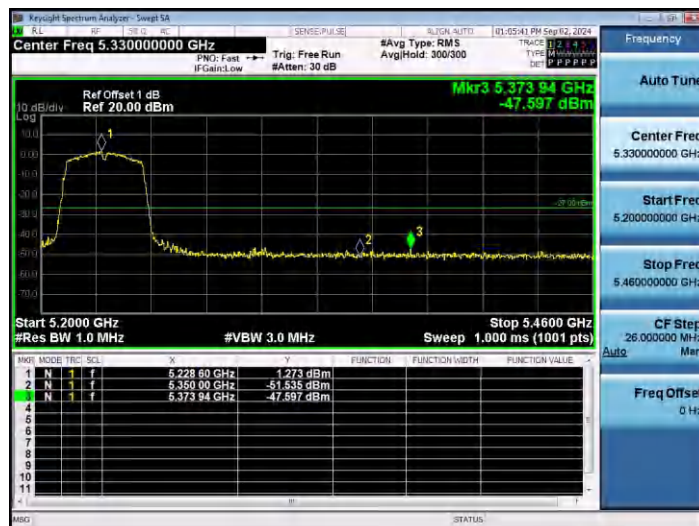


11N40MIMO-Ant1-5190-PASS

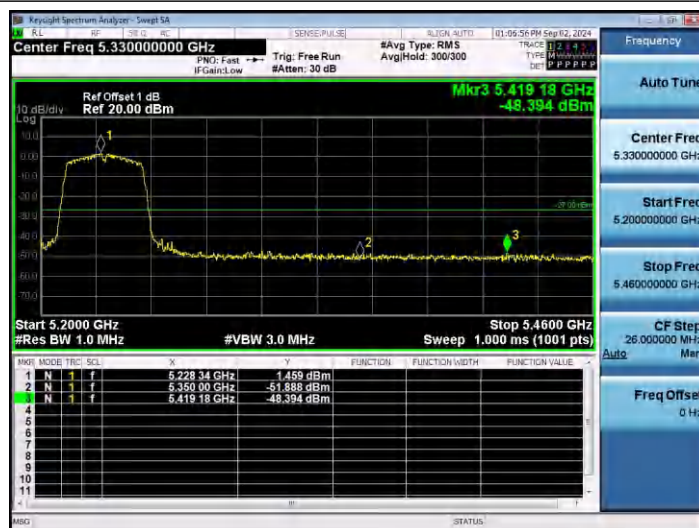




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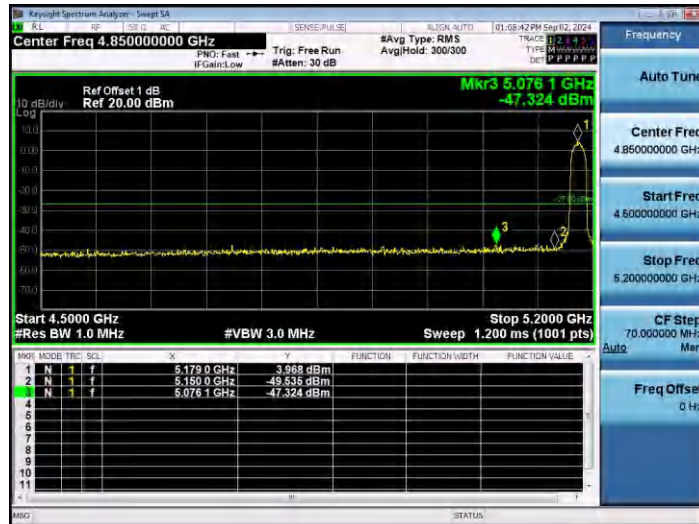


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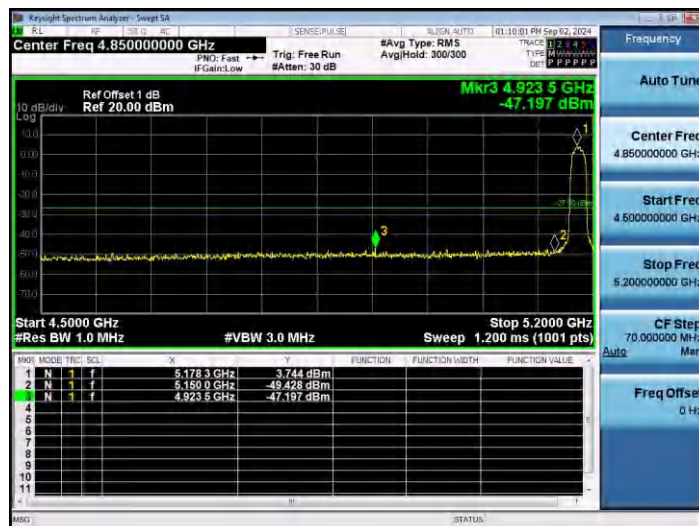


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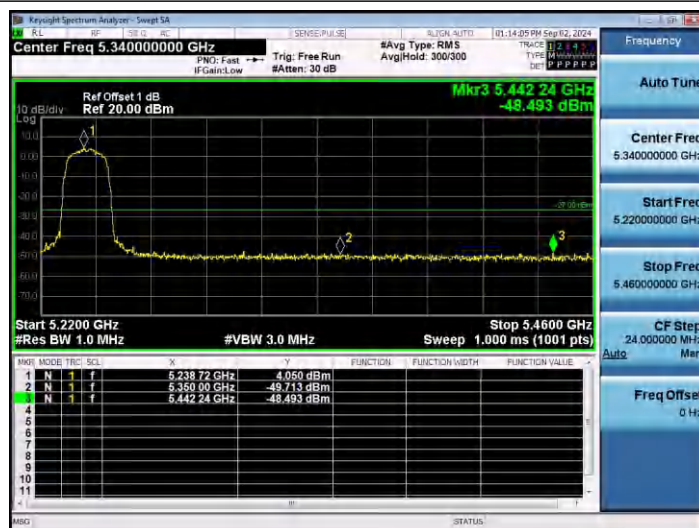




11AC20MIMO-Ant1-5180-PASS



11AC20MIMO-Ant2-5180-PASS



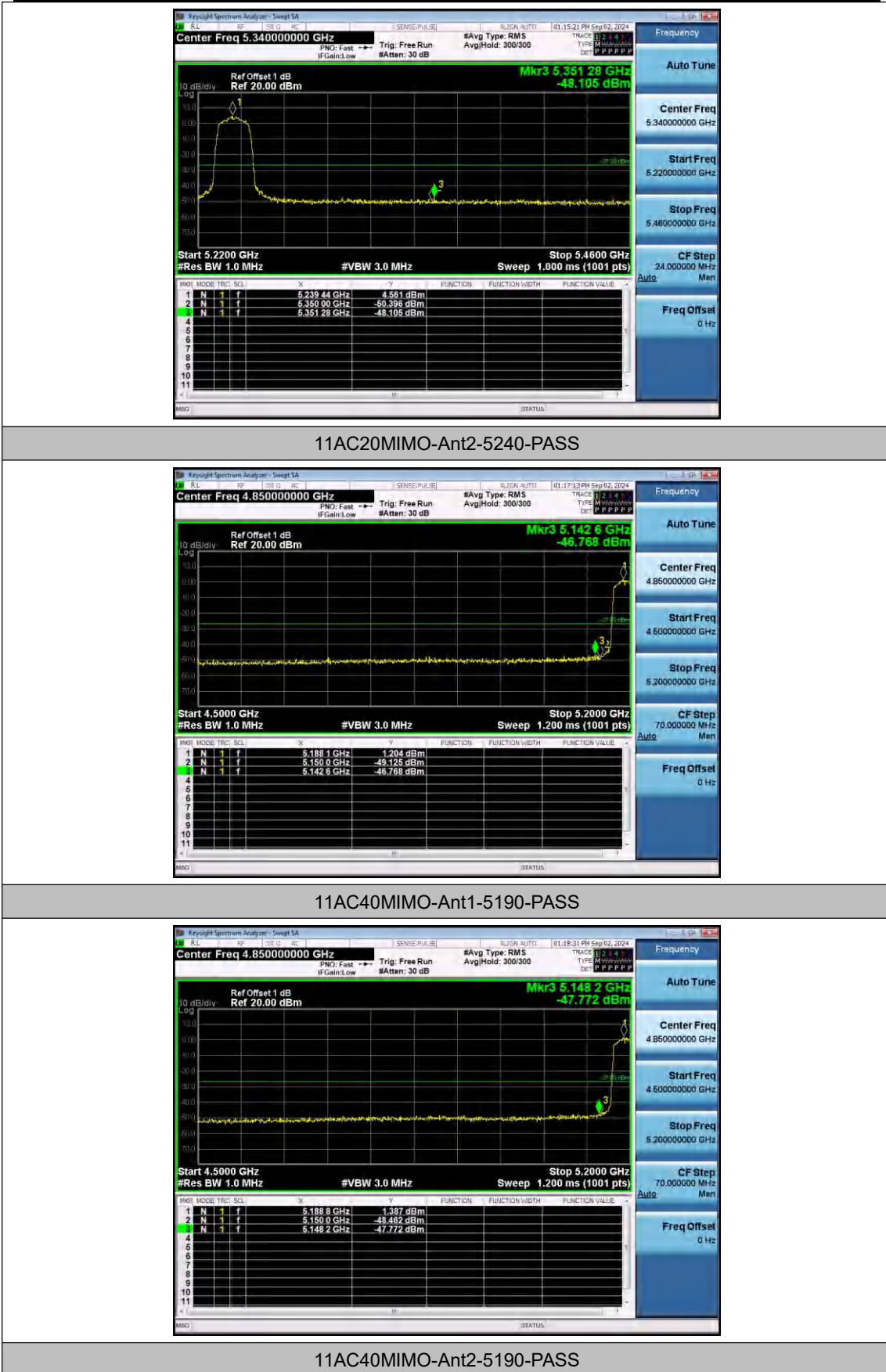
11AC20MIMO-Ant1-5240-PASS

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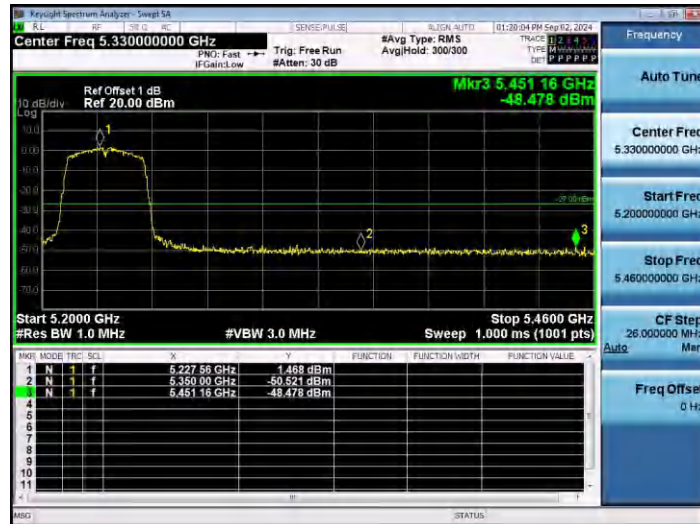


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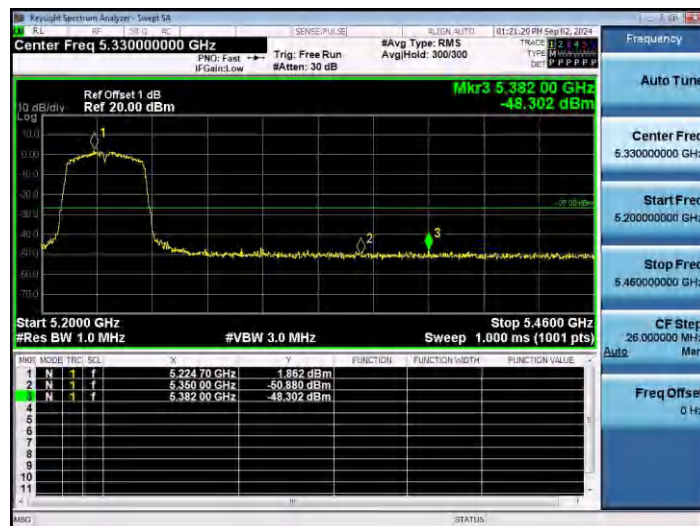
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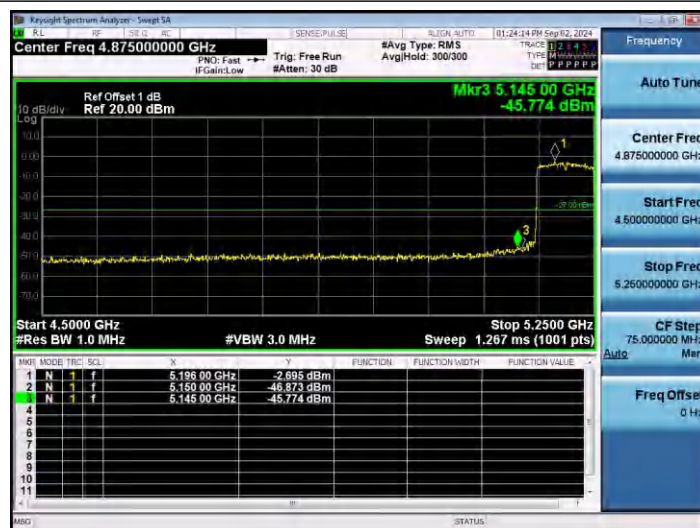




11AC40MIMO-Ant1-5230-PASS

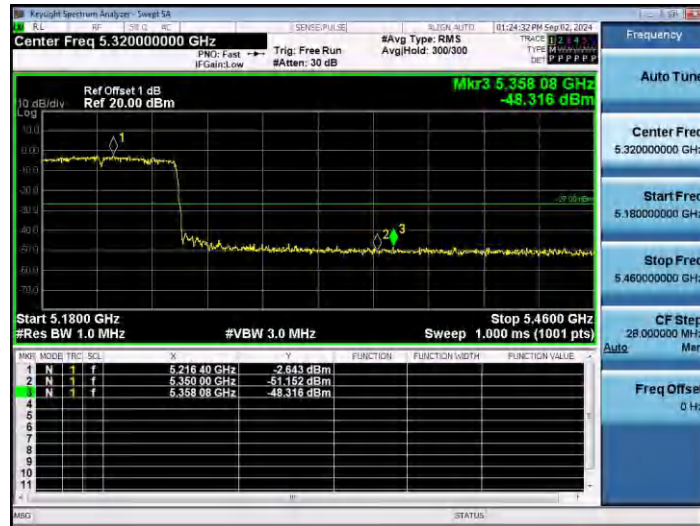


11AC40MIMO-Ant2-5230-PASS

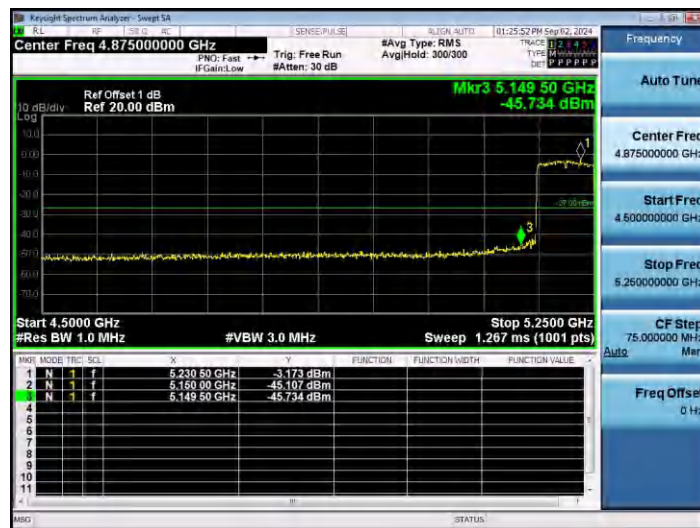


11AC80MIMO-Ant1-5210-PASS

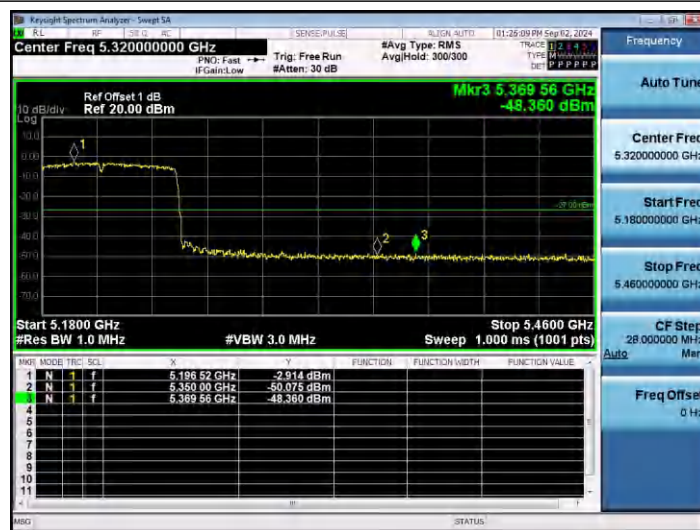




11AC80MIMO-Ant1-5210-PASS



11AC80MIMO-Ant2-5210-PASS



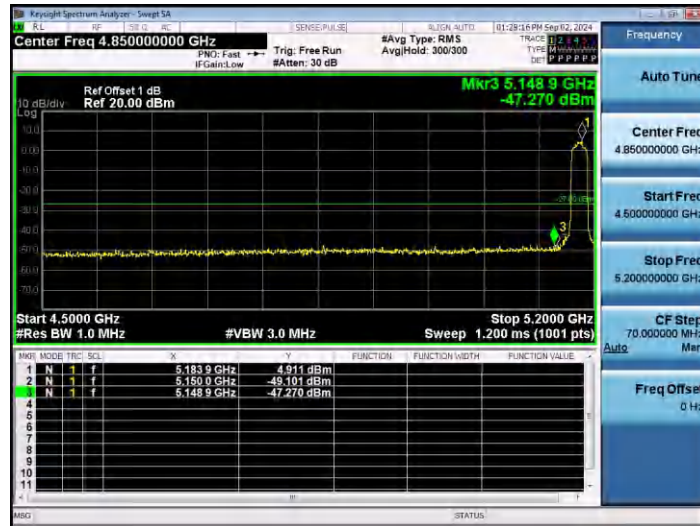
11AC80MIMO-Ant2-5210-PASS

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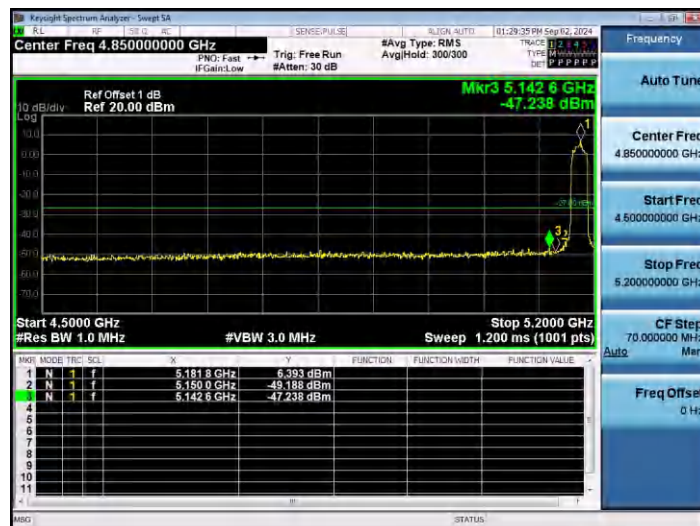
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
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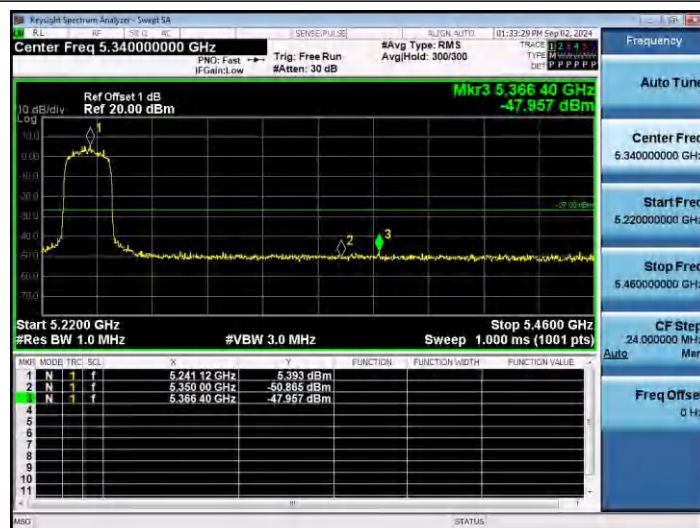




11AX20MIMO-Ant1-5180-PASS

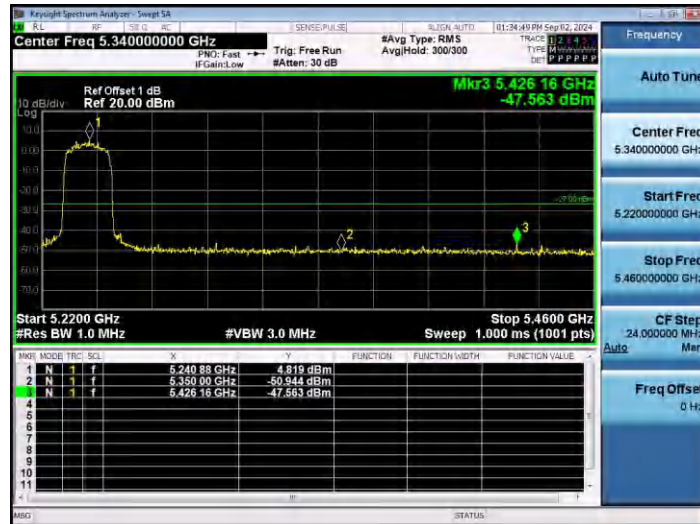


11AX20MIMO-Ant2-5180-PASS

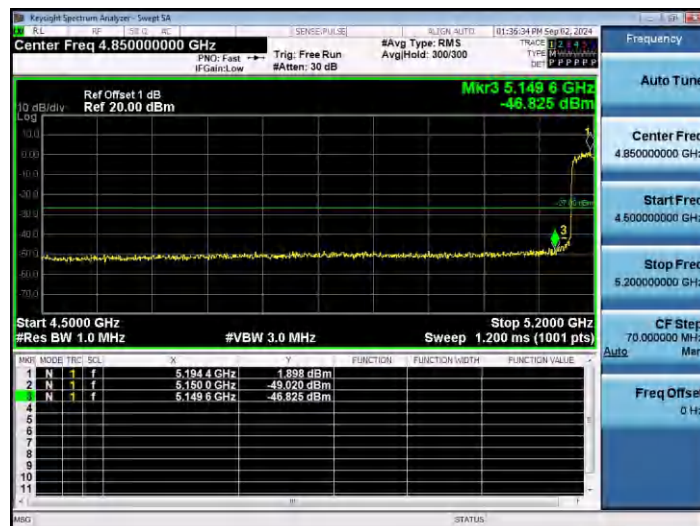


11AX20MIMO-Ant1-5240-PASS

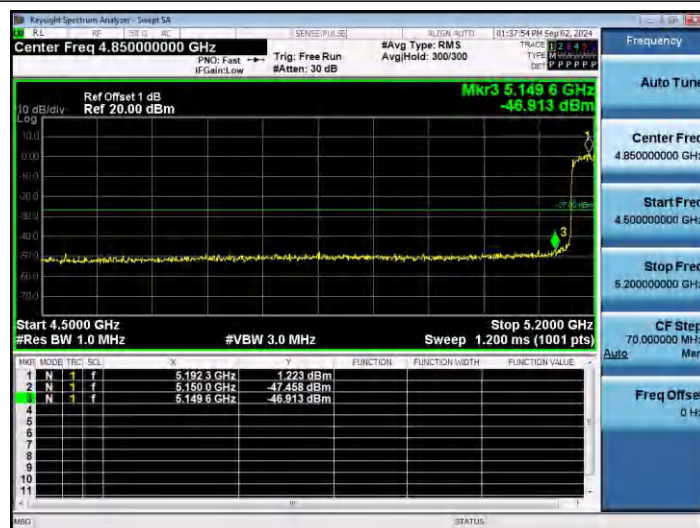




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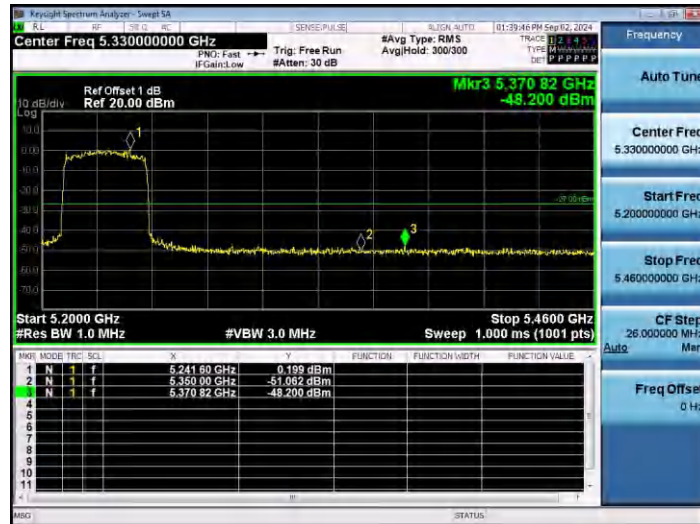


11AX40MIMO-Ant1-5190-PASS

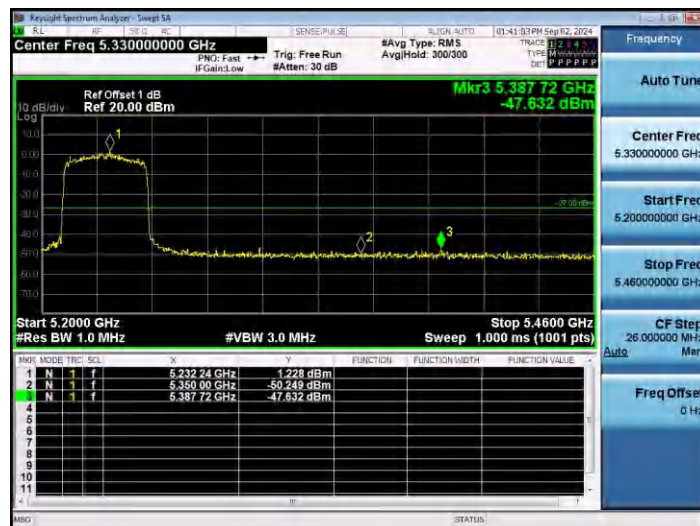


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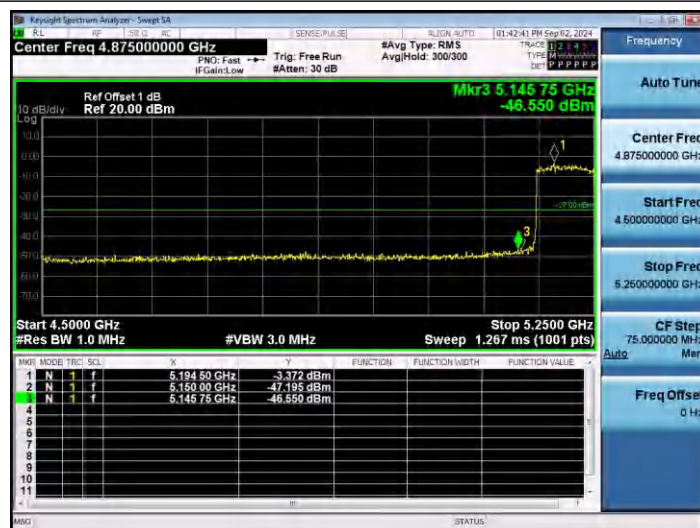




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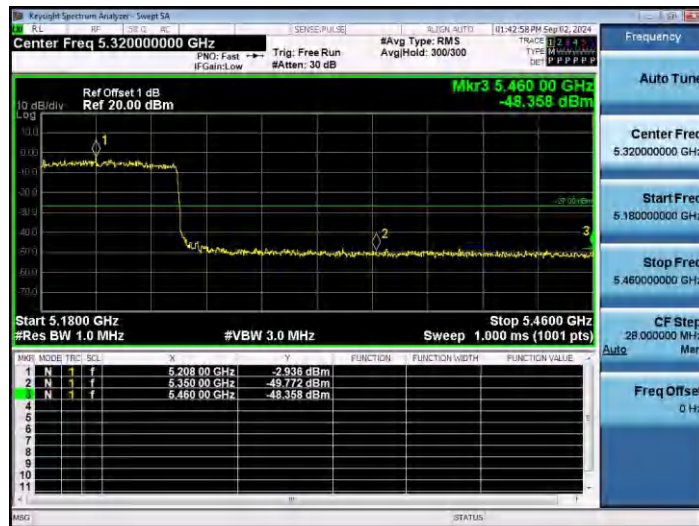


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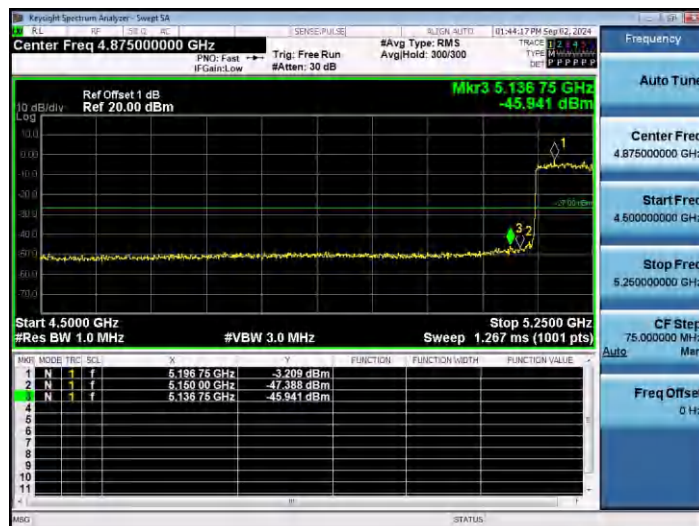


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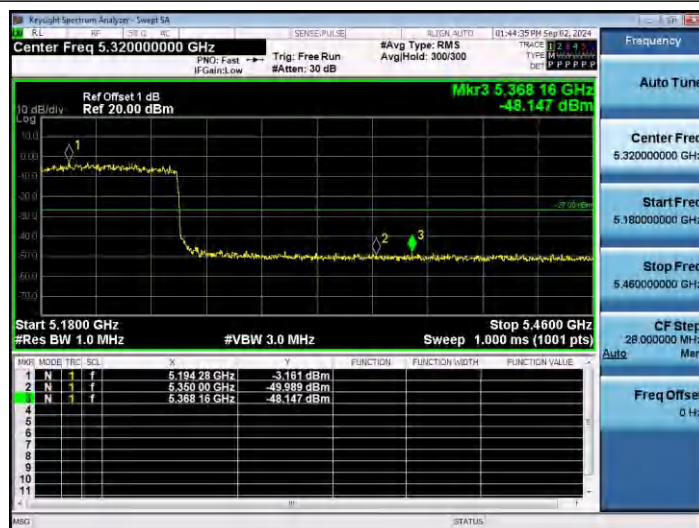




11AX80MIMO-Ant1-5210-PASS



11AX80MIMO-Ant2-5210-PASS



11AX80MIMO-Ant2-5210-PASS

---END---

