

## Appendix Test Data for RLAN(5.8G) (Conducted Measurement)

Product Name: Automatic Pet Feeder - Camera Monitoring 5L Double Food Tray

Trade Mark: PETLIBRO

Test Model: PLAF203

FCC ID: 2A3DE-PLAF203S

### Environmental Conditions

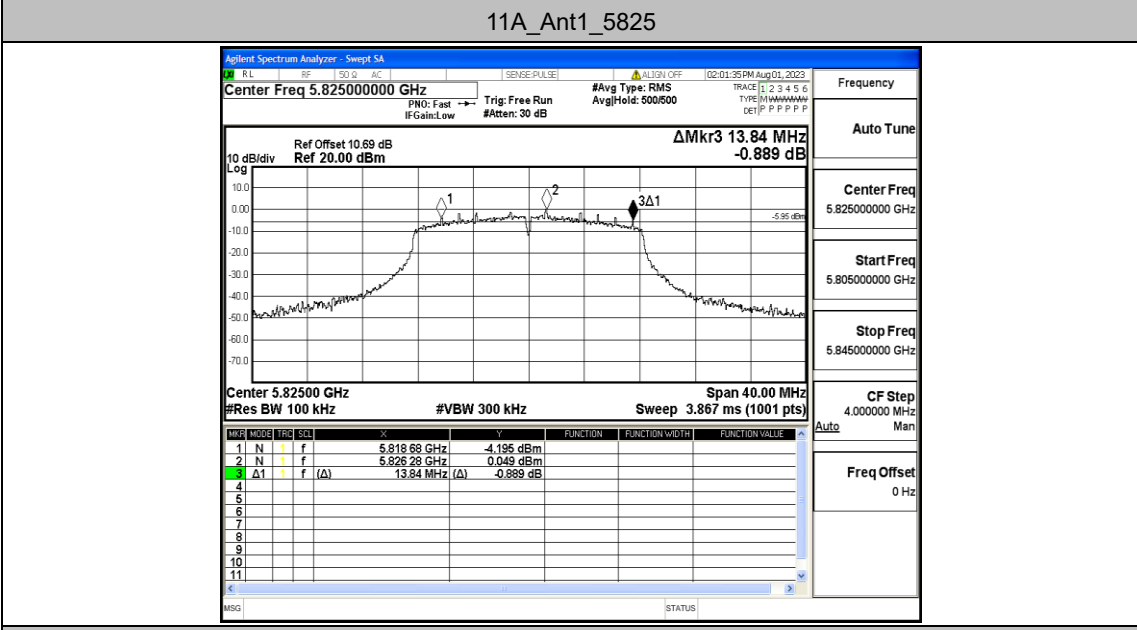
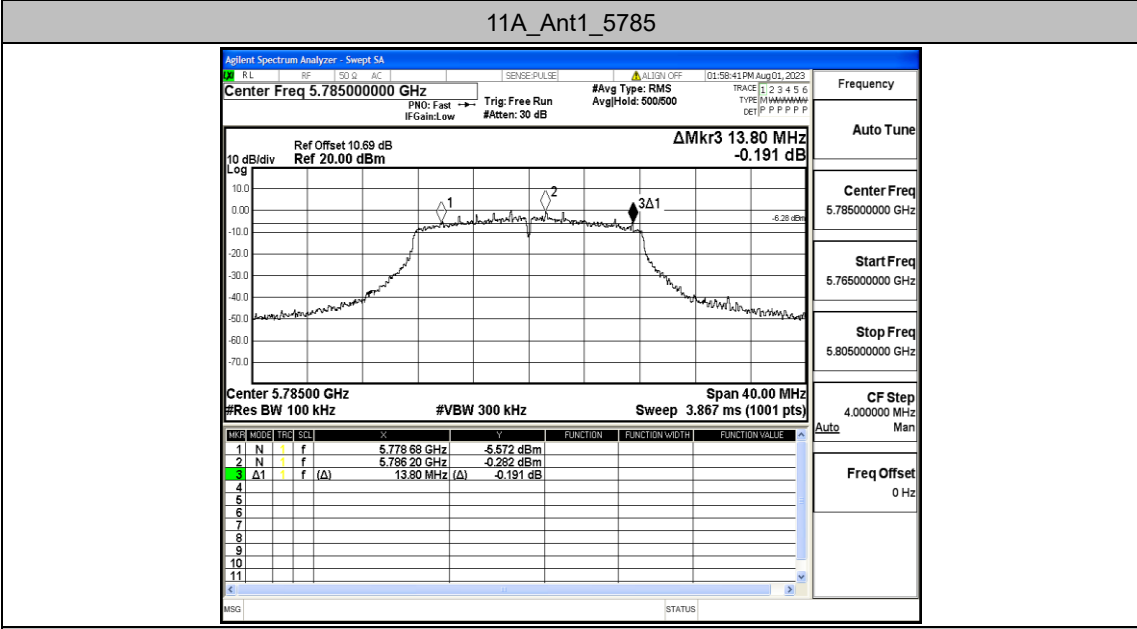
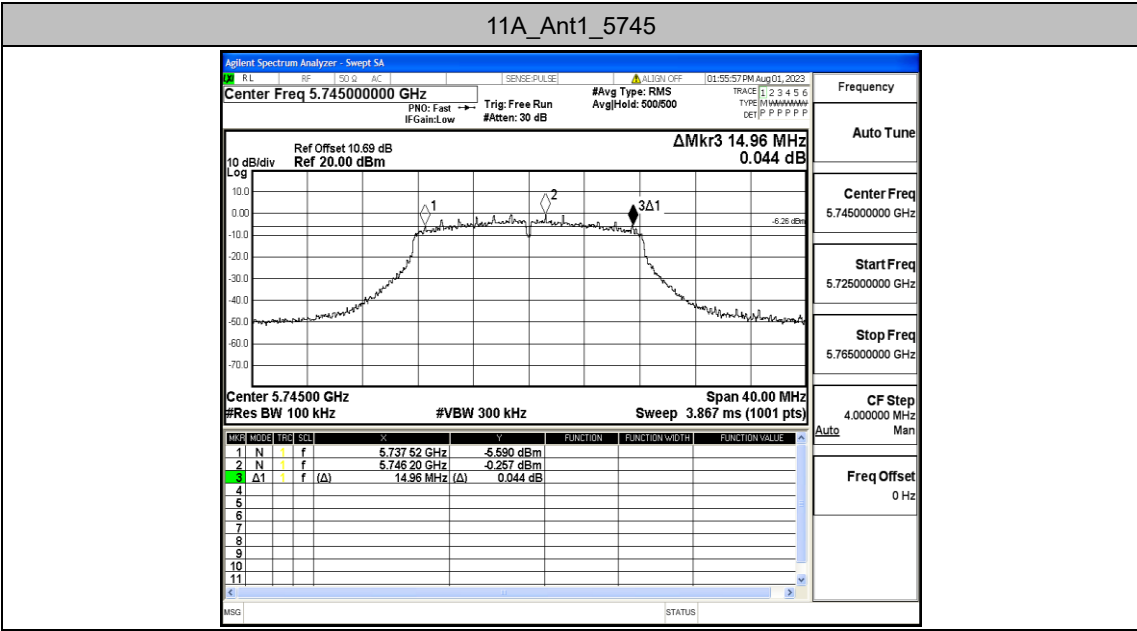
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engneer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

### Appendix A: Min emission bandwidth

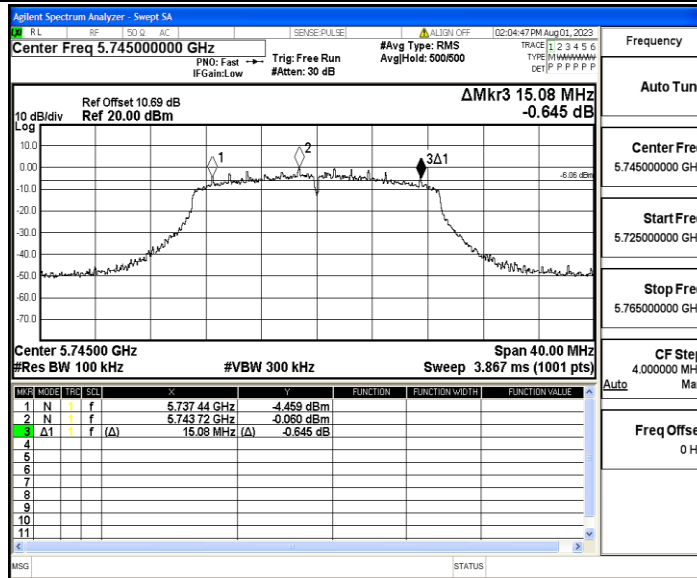
#### Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	14.960	5737.520	5752.480	0.5	PASS
		5785	13.800	5778.680	5792.480	0.5	PASS
		5825	13.840	5818.680	5832.520	0.5	PASS
11N20MIMO	Ant1	5745	15.080	5737.440	5752.520	0.5	PASS
		5785	15.040	5777.440	5792.480	0.5	PASS
		5825	13.760	5818.760	5832.520	0.5	PASS
11N40MIMO	Ant1	5755	31.360	5738.680	5770.040	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS
11AC20MIMO	Ant1	5745	15.040	5737.480	5752.520	0.5	PASS
		5785	15.080	5777.440	5792.520	0.5	PASS
		5825	13.200	5819.320	5832.520	0.5	PASS
11AC40MIMO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	32.560	5778.680	5811.240	0.5	PASS

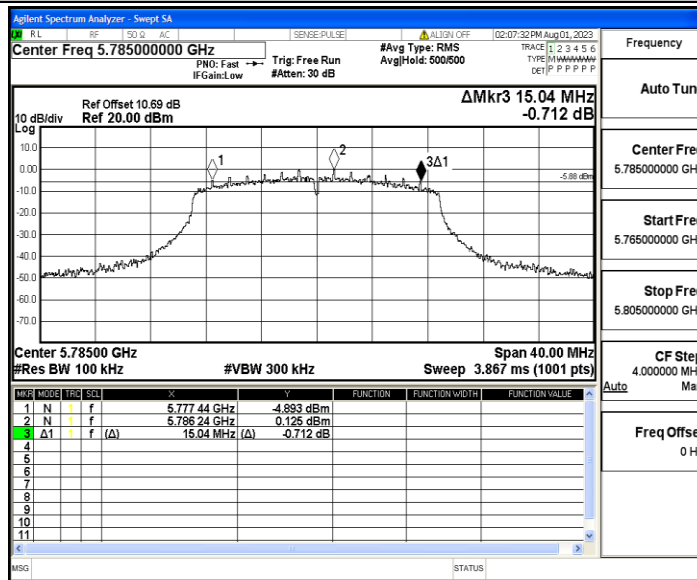
Test Graphs



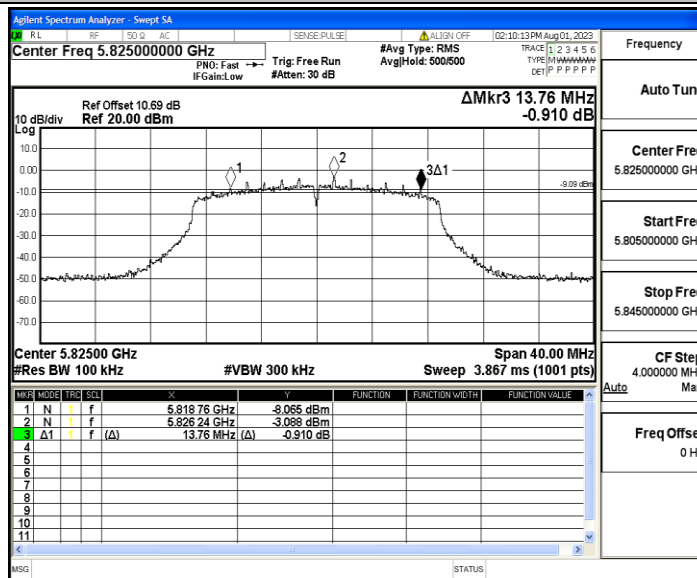
11N20MIMO\_Ant1\_5745



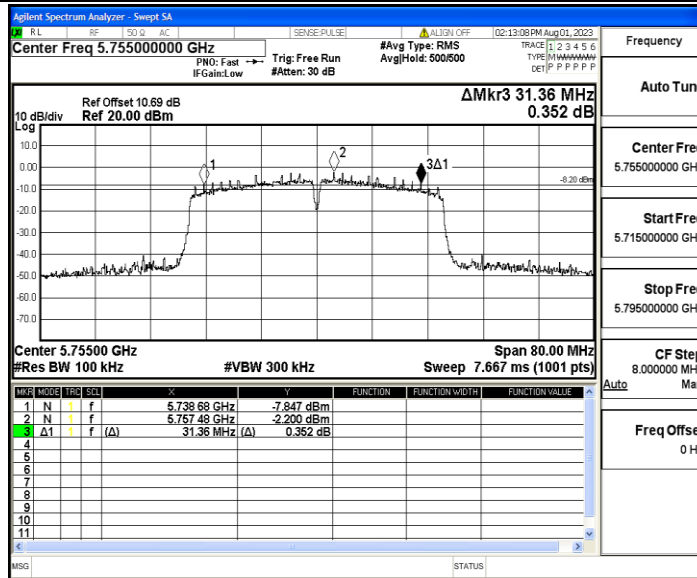
11N20MIMO\_Ant1\_5785



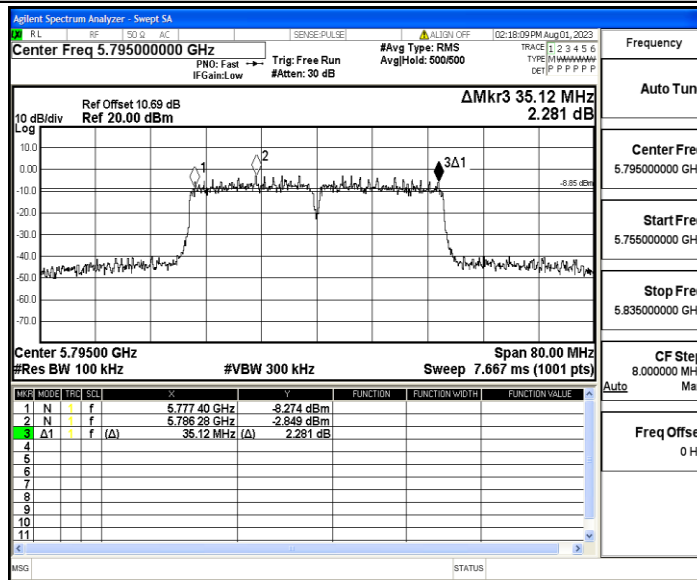
11N20MIMO\_Ant1\_5825



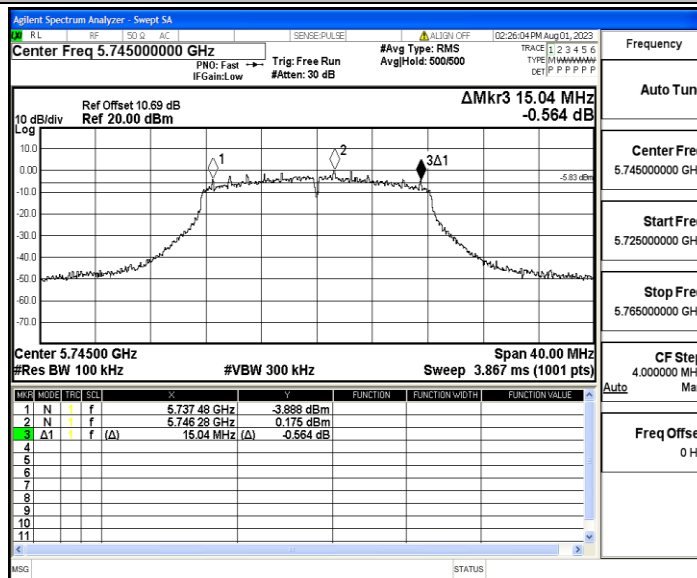
11N40MIMO\_Ant1\_5755



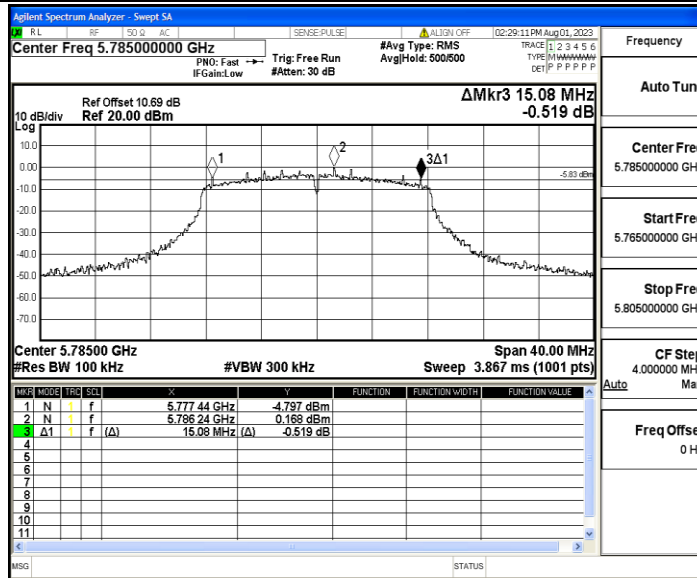
11N40MIMO\_Ant1\_5795



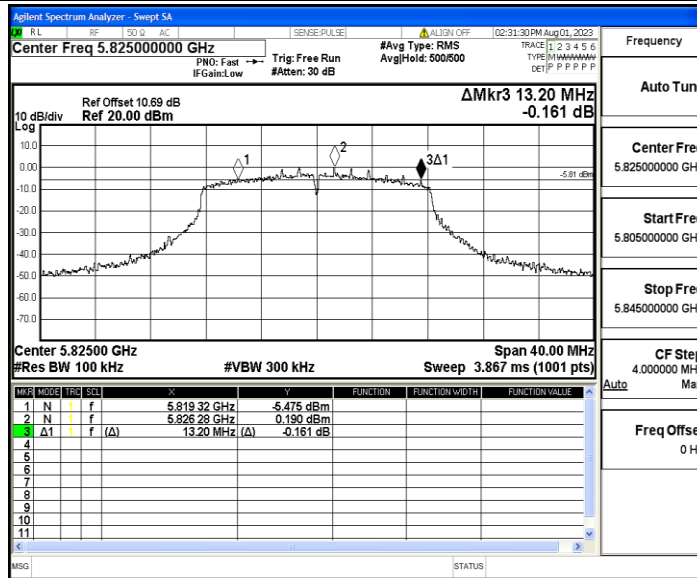
11N40MIMO\_Ant1\_5795



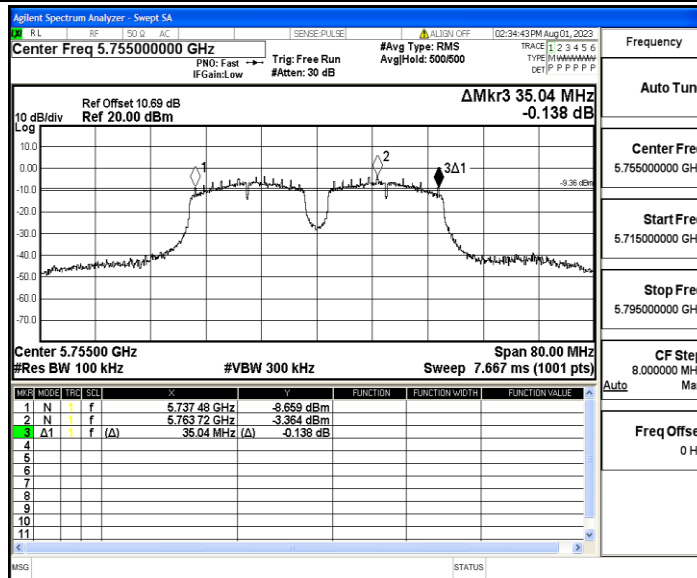
11AC20MIMO\_Ant1\_5745



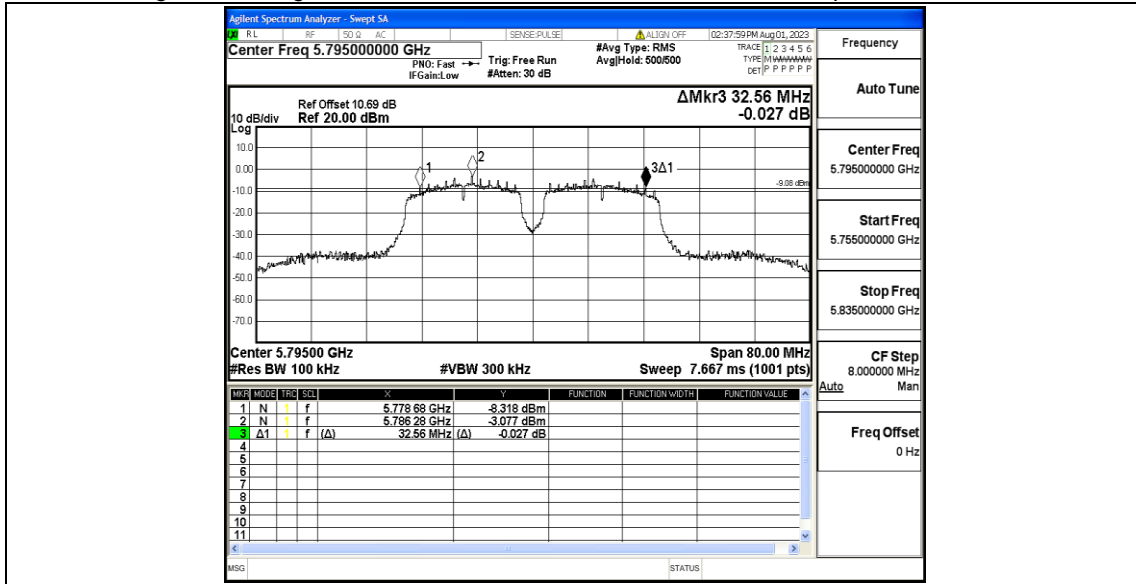
11AC20MIMO\_Ant1\_5825



11AC40MIMO\_Ant1\_5755



11AC40MIMO\_Ant1\_5795



## Appendix B: Maximum conducted output power

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5745	10.89	≤30.00	PASS
		5785	10.71	≤30.00	PASS
		5825	10.98	≤30.00	PASS
11N20MIMO	Ant1	5745	11.34	≤30.00	PASS
		5785	11.14	≤30.00	PASS
		5825	11.41	≤30.00	PASS
11N40MIMO	Ant1	5755	10.54	≤30.00	PASS
		5795	10.37	≤30.00	PASS
11AC20MIMO	Ant1	5745	10.23	≤30.00	PASS
		5785	10.01	≤30.00	PASS
		5825	10.16	≤30.00	PASS
11AC40MIMO	Ant1	5755	9.88	≤30.00	PASS
		5795	9.25	≤30.00	PASS

Note: The Duty Cycle Factor is compensated in the test result.

## Appendix C: Maximum power spectral density

### Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	5.22	≤30.00	PASS
		5785	5.74	≤30.00	PASS
		5825	5.24	≤30.00	PASS
11N20MIMO	Ant1	5745	6.38	≤30.00	PASS
		5785	6.03	≤30.00	PASS
		5825	5.59	≤30.00	PASS
11N40MIMO	Ant1	5755	5.34	≤30.00	PASS
		5795	4.8	≤30.00	PASS
11AC20MIMO	Ant1	5745	4.84	≤30.00	PASS
		5785	4.06	≤30.00	PASS
		5825	4.49	≤30.00	PASS
11AC40MIMO	Ant1	5755	1.43	≤30.00	PASS
		5795	0.5	≤30.00	PASS

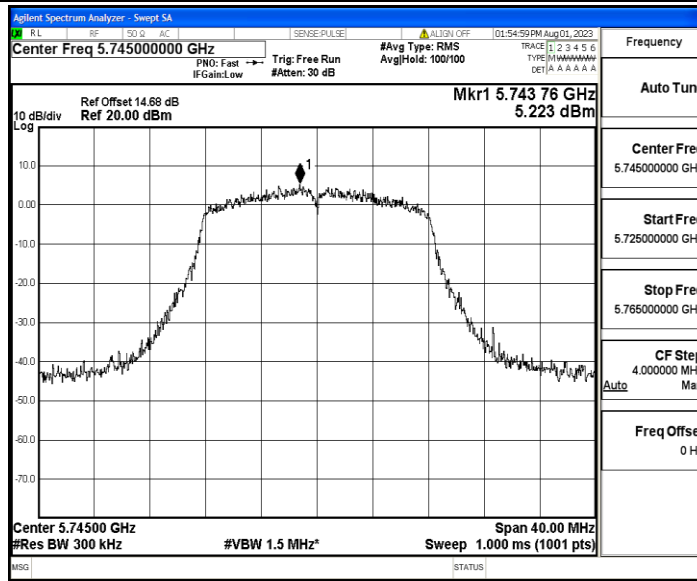
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

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

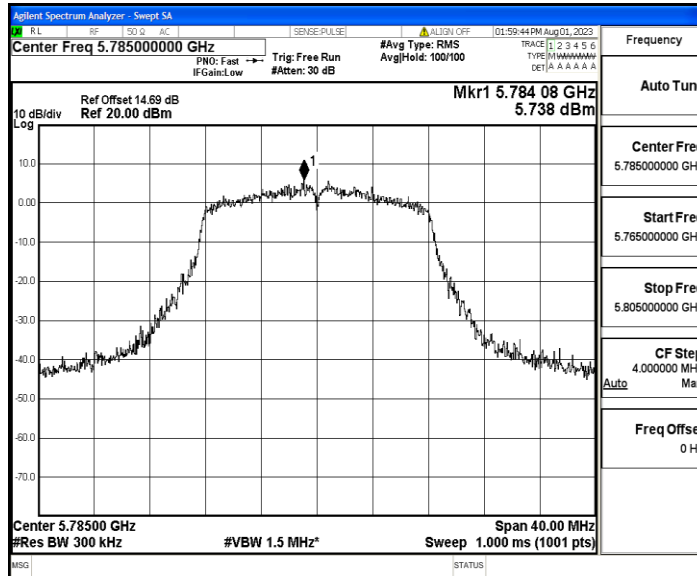


### Test Graphs

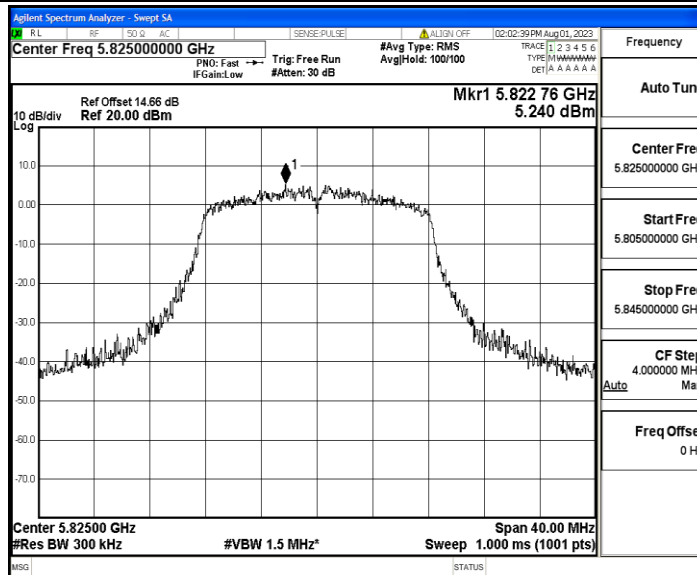
11A\_Ant1\_5745



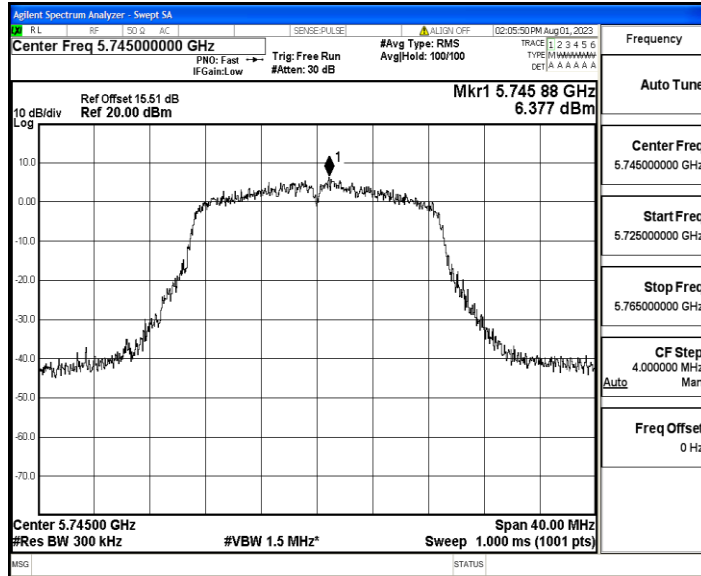
11A\_Ant1\_5785



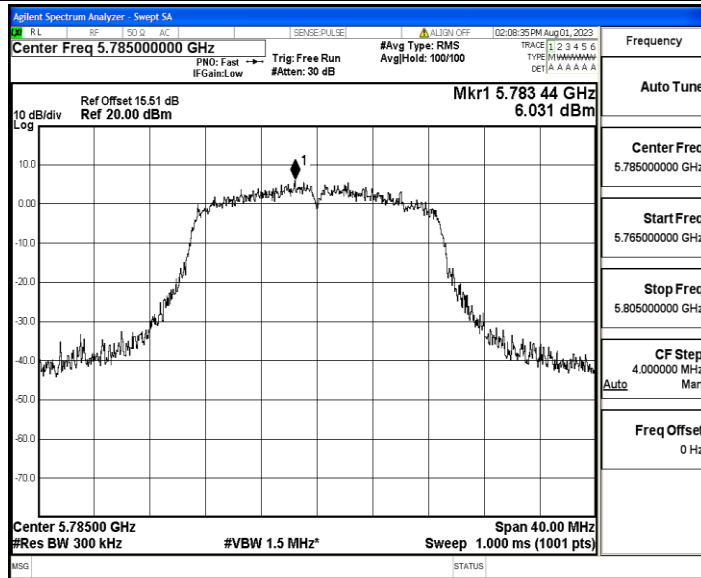
11A\_Ant1\_5825



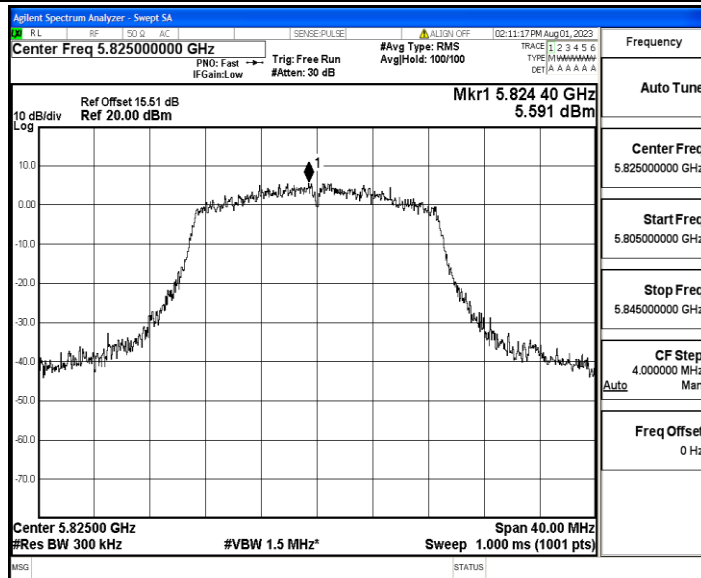
11N20MIMO\_Ant1\_5745



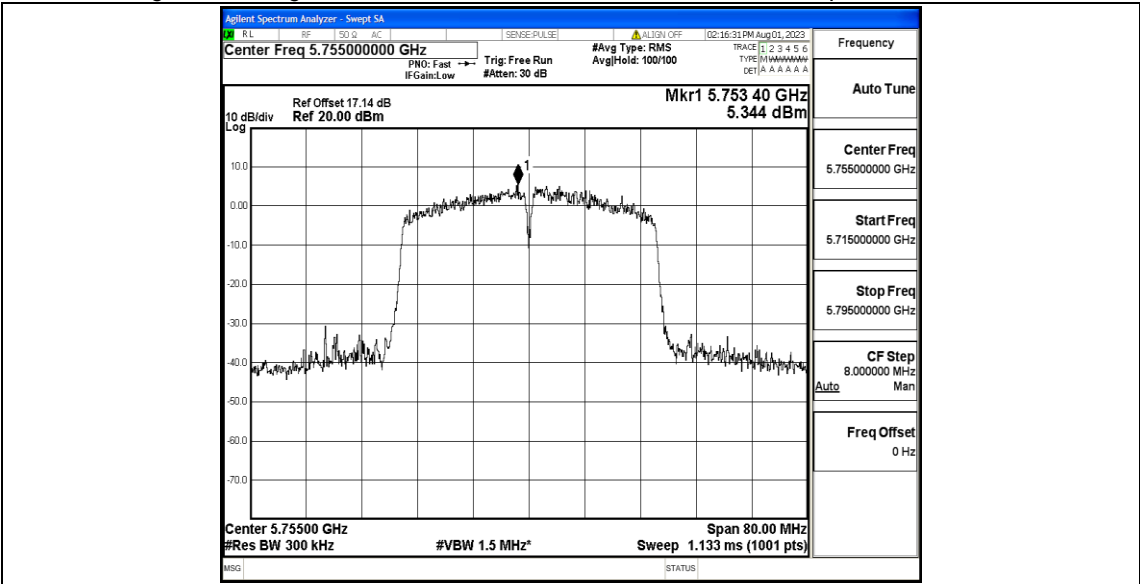
11N20MIMO\_Ant1\_5785



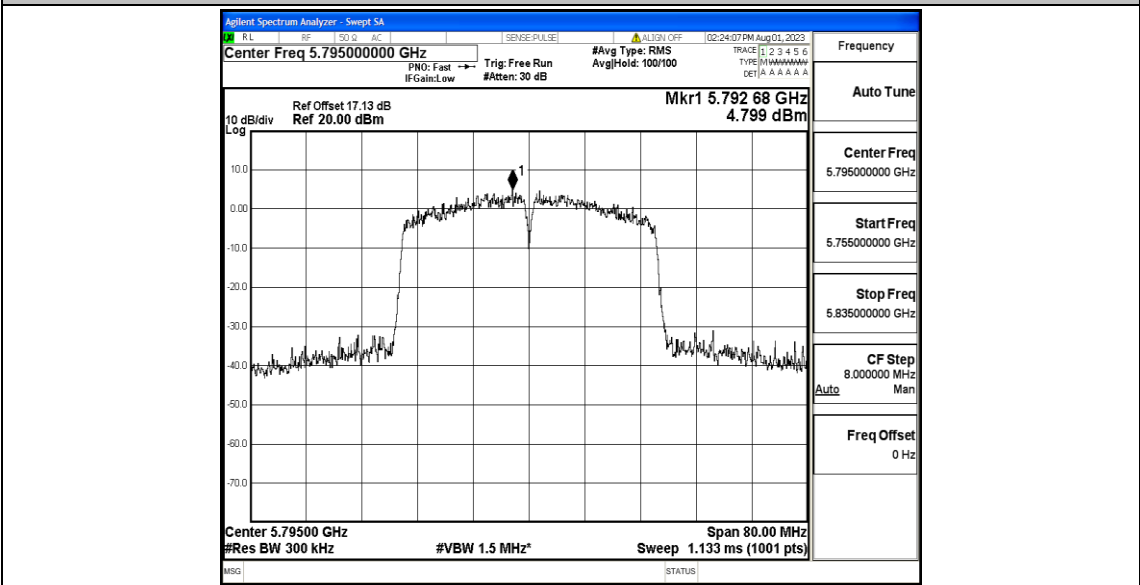
11N20MIMO\_Ant1\_5825



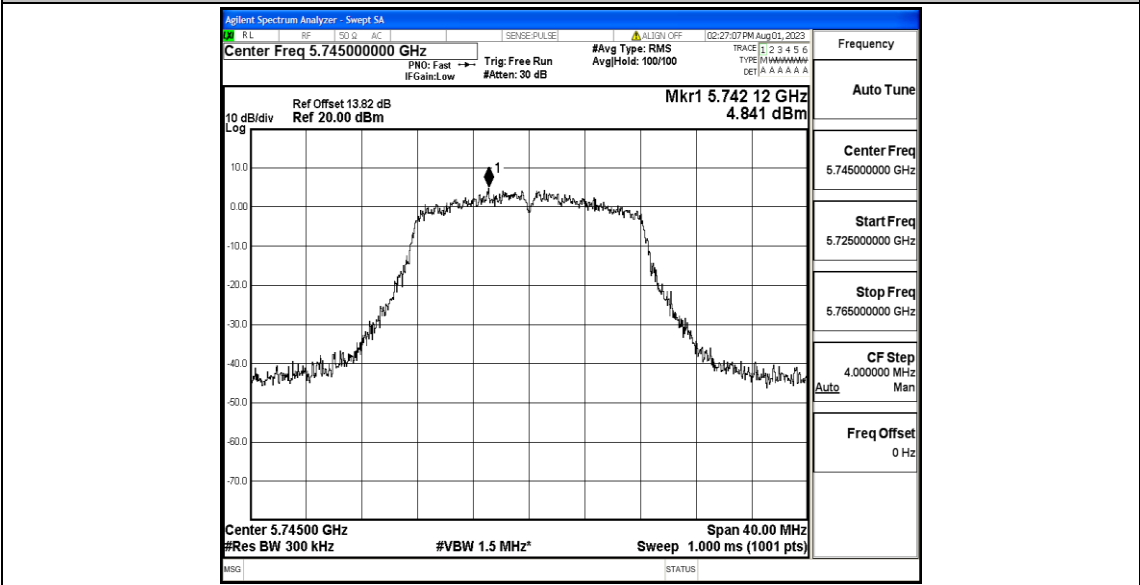
11N40MIMO\_Ant1\_5755



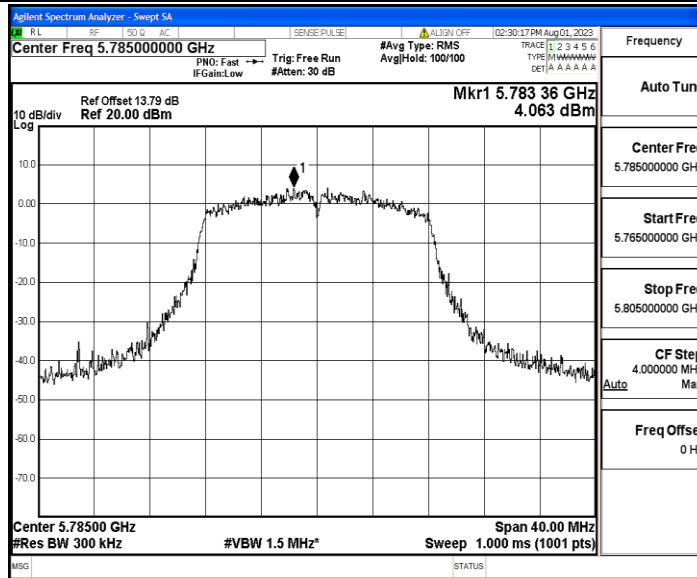
11N40MIMO\_Ant1\_5795



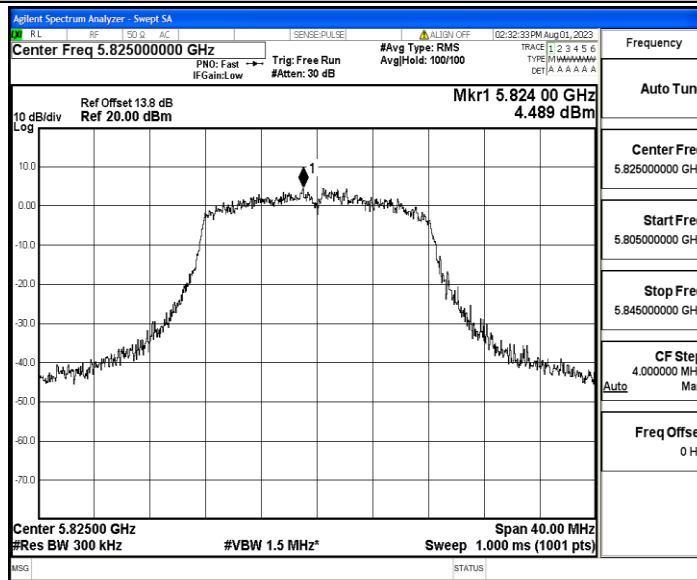
11AC20MIMO\_Ant1\_5745



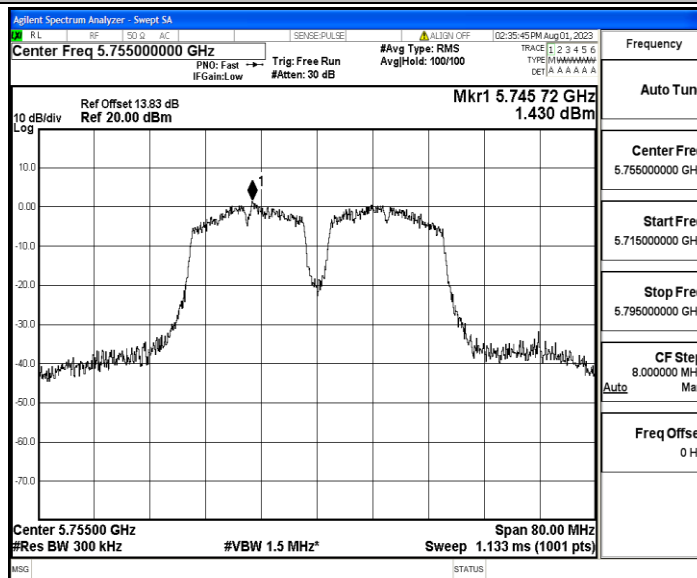
11AC20MIMO\_Ant1\_5785



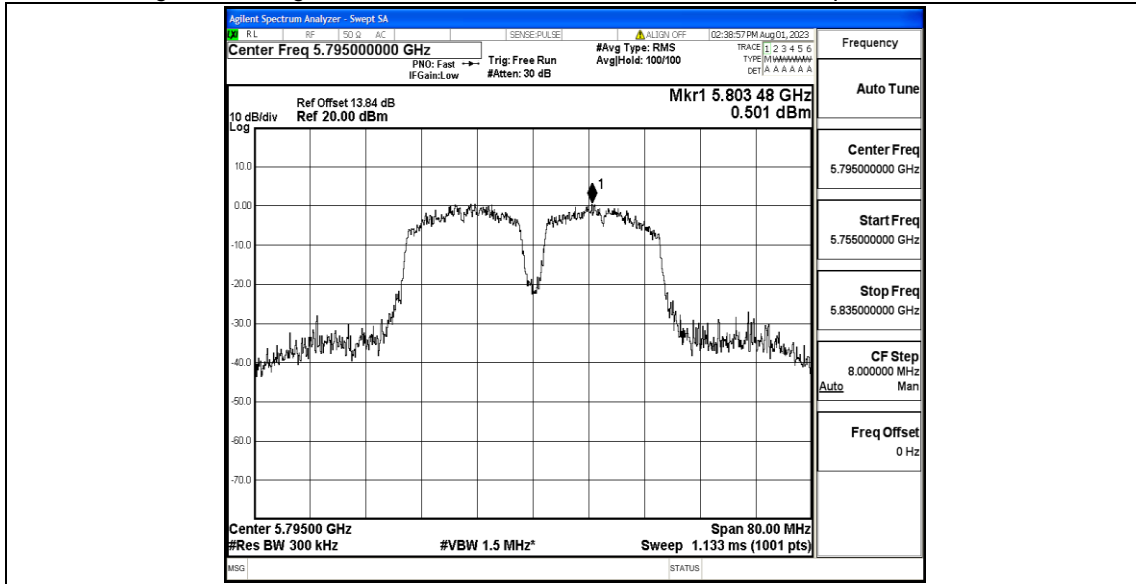
11AC20MIMO\_Ant1\_5825



11AC40MIMO\_Ant1\_5755



11AC40MIMO\_Ant1\_5795

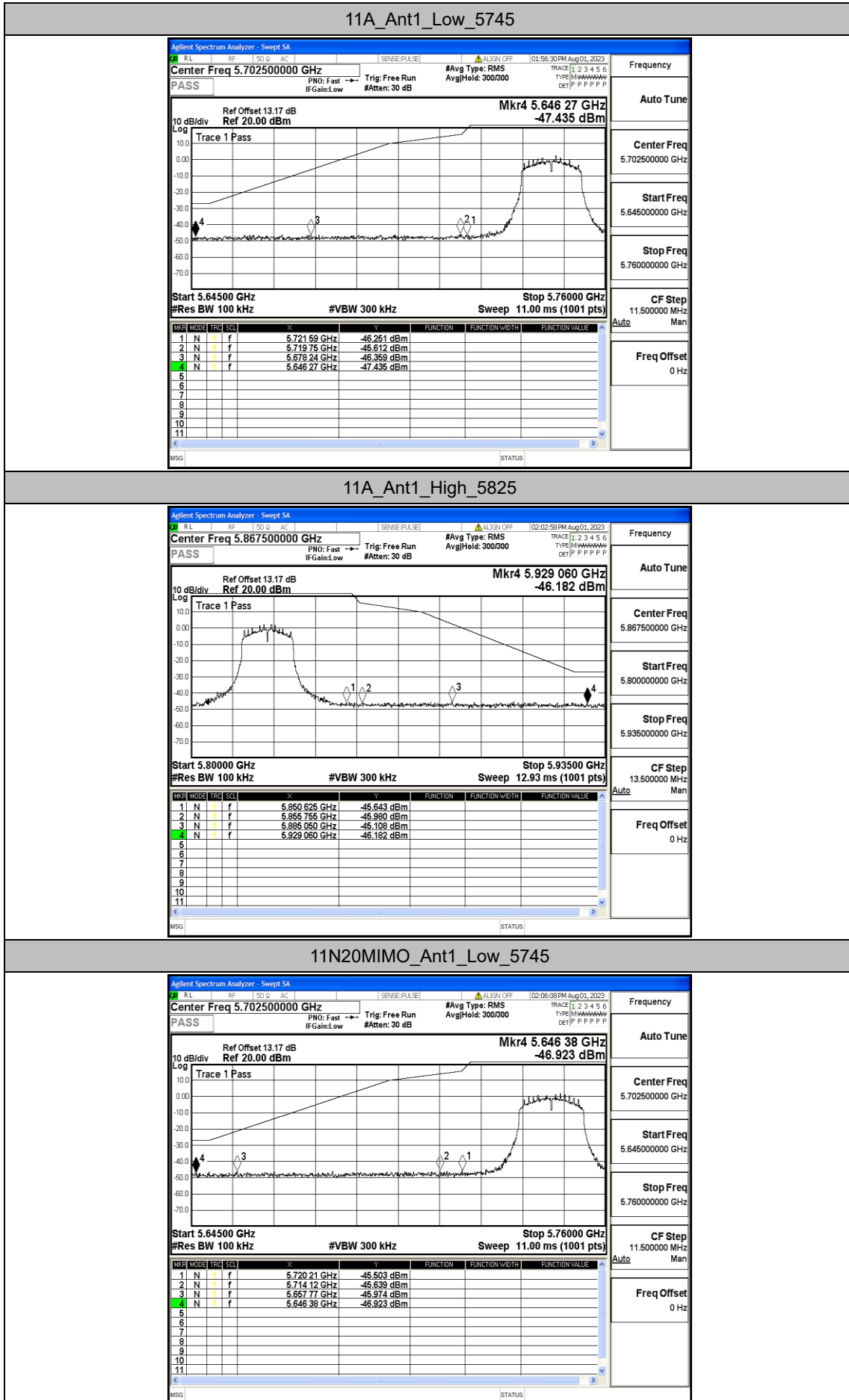


## Appendix D: Band edge measurements

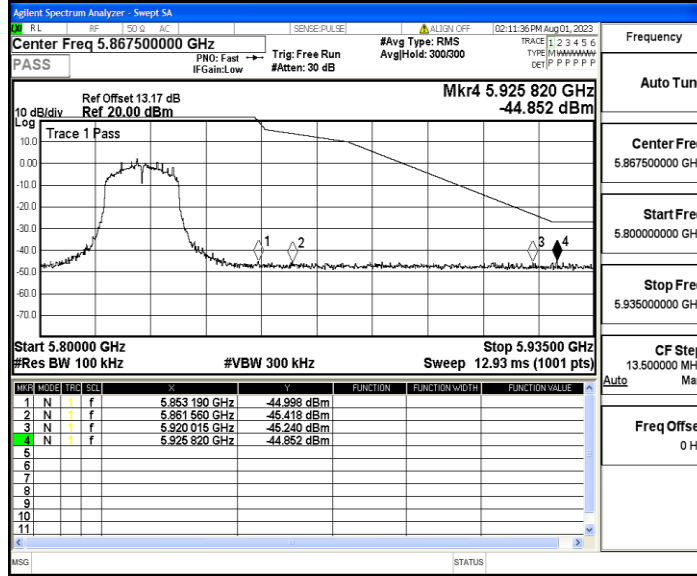
### Test Result

TestMode	Antenna	ChName	Channel	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-46.36	≤-6.11	PASS
				5700~5720	-45.61	≤15.53	PASS
				5720~5725	-46.25	≤19.23	PASS
				5760~5650	-47.44	≤-27	PASS
		High	5825	5850~5855	-45.64	≤17.03	PASS
				5855~5875	-45.98	≤10.21	PASS
				5875~5925	-45.11	≤-19.56	PASS
				5925~5935	-46.18	≤-27	PASS
11N20MI MO	Ant1	Low	5745	5650~5700	-45.97	≤-21.25	PASS
				5700~5720	-45.64	≤13.95	PASS
				5720~5725	-45.5	≤16.08	PASS
				5760~5650	-46.92	≤-27	PASS
		High	5825	5850~5855	-45	≤22.87	PASS
				5855~5875	-45.42	≤11.84	PASS
				5875~5925	-45.24	≤6.31	PASS
				5925~5935	-44.85	≤-27	PASS
11N40MI MO	Ant1	Low	5755	5650~5700	-46.02	≤-16.11	PASS
				5700~5720	-43.95	≤15.28	PASS
				5720~5725	-41.43	≤22.51	PASS
				5780~5650	-47.09	≤-27	PASS
		High	5795	5850~5855	-45.57	≤15.66	PASS
				5855~5875	-45.48	≤11.79	PASS
				5875~5925	-45.04	≤-4.58	PASS
				5925~5935	-45.58	≤-27	PASS
11AC20M IMO	Ant1	Low	5745	5650~5700	-45.83	≤7.77	PASS
				5700~5720	-45.12	≤15.18	PASS
				5720~5725	-46.29	≤26.83	PASS
				5760~5650	-46.36	≤-27	PASS
		High	5825	5850~5855	-45.93	≤17.03	PASS
				5855~5875	-44.93	≤12.86	PASS
				5875~5925	-44.65	≤-19.66	PASS
				5925~5935	-45.01	≤-27	PASS
11AC40M IMO	Ant1	Low	5755	5650~5700	-46.23	≤-4.93	PASS
				5700~5720	-40.66	≤15.16	PASS
				5720~5725	-39.98	≤24.66	PASS
				5780~5650	-46.46	≤-27	PASS
		High	5795	5850~5855	-45.99	≤19.04	PASS
				5855~5875	-45.4	≤10.55	PASS
				5875~5925	-44.71	≤-26.68	PASS
				5925~5935	-46.28	≤-27	PASS

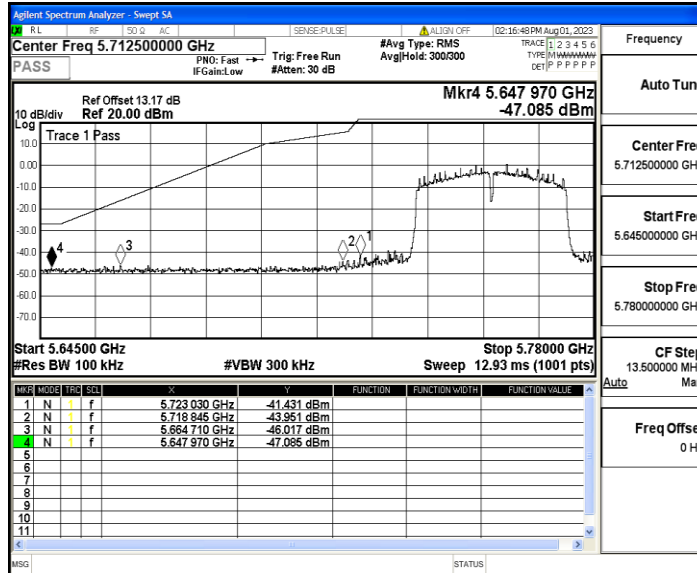
### Test Graphs



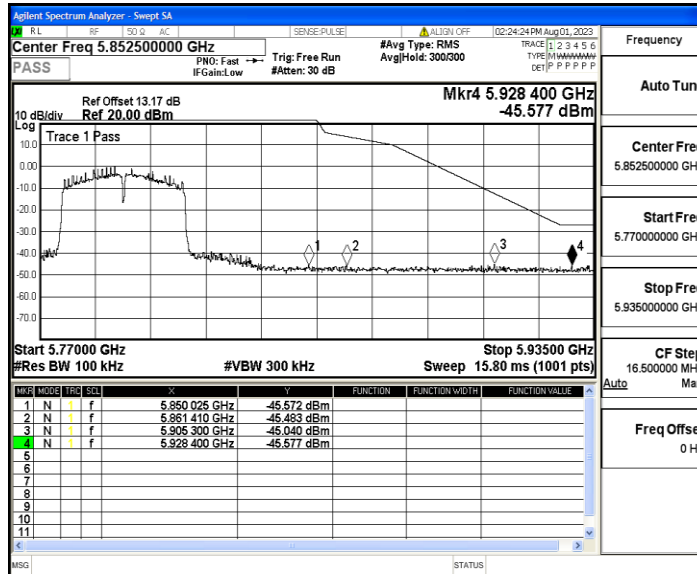
11N20MIMO\_Ant1\_High\_5825



11N40MIMO\_Ant1\_Low\_5755

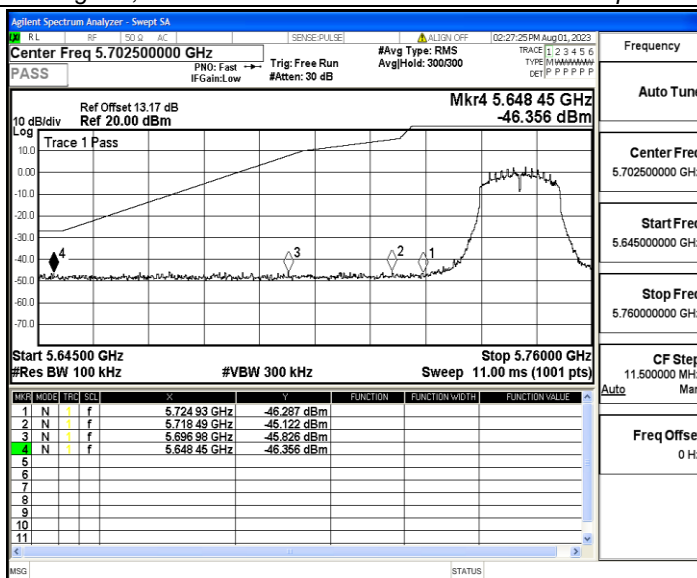


11N40MIMO\_Ant1\_High\_5795

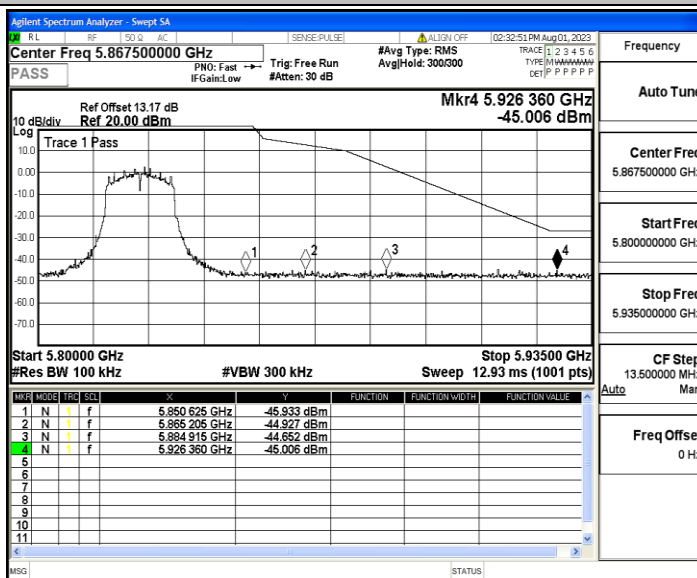


11AC20MIMO\_Ant1\_Low\_5745

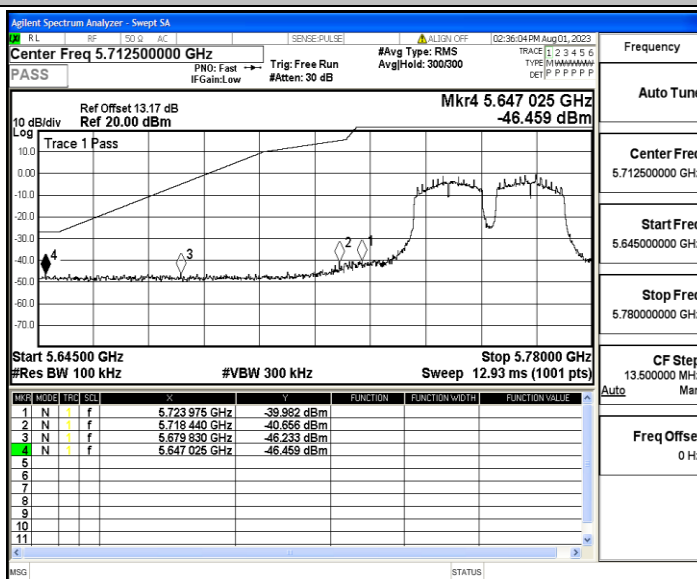




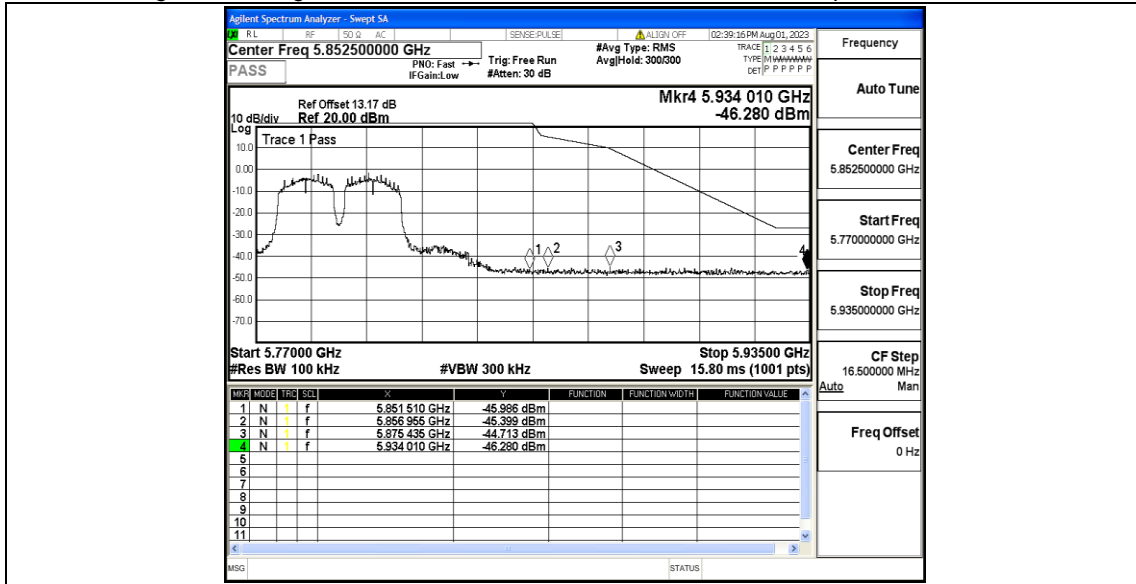
11AC20MIMO\_Ant1\_High\_5825



11AC40MIMO\_Ant1\_Low\_5755



11AC40MIMO\_Ant1\_High\_5795



## Appendix E: Frequency Stability

### Test Result

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5745	20	132	5744.900978	5745 – 5825	PASS
5745	20	108	5745.041039	5745 – 5825	PASS
5745	50	120	5744.933548	5745 – 5825	PASS
5745	40	120	5745.050945	5745 – 5825	PASS
5745	30	120	5745.009926	5745 – 5825	PASS
5745	20	120	5744.907202	5745 – 5825	PASS
5745	10	120	5745.076732	5745 – 5825	PASS
5745	0	120	5745.084333	5745 – 5825	PASS
5745	-10	120	5744.903159	5745 – 5825	PASS
5745	-20	120	5745.033055	5745 – 5825	PASS
5745	-30	120	5745.059729	5745 – 5825	PASS

Ant2

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5745	20	132	5744.940474	5745 – 5825	PASS
5745	20	108	5744.916013	5745 – 5825	PASS
5745	50	120	5745.005464	5745 – 5825	PASS
5745	40	120	5744.999666	5745 – 5825	PASS
5745	30	120	5744.912172	5745 – 5825	PASS
5745	20	120	5745.005382	5745 – 5825	PASS
5745	10	120	5745.021796	5745 – 5825	PASS
5745	0	120	5744.910254	5745 – 5825	PASS
5745	-10	120	5745.072852	5745 – 5825	PASS
5745	-20	120	5744.909069	5745 – 5825	PASS
5745	-30	120	5744.965065	5745 – 5825	PASS

## Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5785	20	132	5784.918658	5745 – 5825	PASS
5785	20	108	5784.976167	5745 – 5825	PASS
5785	50	120	5785.027551	5745 – 5825	PASS
5785	40	120	5784.962090	5745 – 5825	PASS
5785	30	120	5784.990629	5745 – 5825	PASS
5785	20	120	5784.998354	5745 – 5825	PASS
5785	10	120	5785.012681	5745 – 5825	PASS
5785	0	120	5785.059765	5745 – 5825	PASS
5785	-10	120	5784.912339	5745 – 5825	PASS
5785	-20	120	5785.074352	5745 – 5825	PASS
5785	-30	120	5784.912952	5745 – 5825	PASS

## Ant2

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5785	20	132	5785.055904	5745 – 5825	PASS
5785	20	108	5785.023417	5745 – 5825	PASS
5785	50	120	5784.982052	5745 – 5825	PASS
5785	40	120	5785.092825	5745 – 5825	PASS
5785	30	120	5785.091799	5745 – 5825	PASS
5785	20	120	5785.069784	5745 – 5825	PASS
5785	10	120	5784.950614	5745 – 5825	PASS
5785	0	120	5785.077447	5745 – 5825	PASS
5785	-10	120	5785.042768	5745 – 5825	PASS
5785	-20	120	5784.974367	5745 – 5825	PASS
5785	-30	120	5785.003993	5745 – 5825	PASS

## Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5825	20	132	5824.902968	5745 – 5825	PASS
5825	20	108	5824.910994	5745 – 5825	PASS
5825	50	120	5824.955446	5745 – 5825	PASS
5825	40	120	5824.950636	5745 – 5825	PASS
5825	30	120	5824.982370	5745 – 5825	PASS
5825	20	120	5825.085909	5745 – 5825	PASS
5825	10	120	5824.906989	5745 – 5825	PASS
5825	0	120	5825.008848	5745 – 5825	PASS
5825	-10	120	5824.975844	5745 – 5825	PASS
5825	-20	120	5824.953194	5745 – 5825	PASS
5825	-30	120	5825.032182	5745 – 5825	PASS

## Ant2

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5825	20	132	5824.940325	5745 – 5825	PASS
5825	20	108	5825.074161	5745 – 5825	PASS
5825	50	120	5825.026472	5745 – 5825	PASS
5825	40	120	5824.983524	5745 – 5825	PASS
5825	30	120	5824.918209	5745 – 5825	PASS
5825	20	120	5825.060073	5745 – 5825	PASS
5825	10	120	5825.005428	5745 – 5825	PASS
5825	0	120	5824.983522	5745 – 5825	PASS
5825	-10	120	5825.083726	5745 – 5825	PASS
5825	-20	120	5824.988826	5745 – 5825	PASS
5825	-30	120	5825.095740	5745 – 5825	PASS

## Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5755	20	132	5755.085781	5745 – 5825	PASS
5755	20	108	5755.018576	5745 – 5825	PASS
5755	50	120	5754.997551	5745 – 5825	PASS
5755	40	120	5755.045244	5745 – 5825	PASS
5755	30	120	5755.005085	5745 – 5825	PASS
5755	20	120	5754.993754	5745 – 5825	PASS
5755	10	120	5755.045784	5745 – 5825	PASS
5755	0	120	5754.938192	5745 – 5825	PASS
5755	-10	120	5755.050014	5745 – 5825	PASS
5755	-20	120	5754.939851	5745 – 5825	PASS
5755	-30	120	5755.084397	5745 – 5825	PASS

## Ant2

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5755	20	132	5755.014028	5745 – 5825	PASS
5755	20	108	5755.015417	5745 – 5825	PASS
5755	50	120	5755.008464	5745 – 5825	PASS
5755	40	120	5755.065361	5745 – 5825	PASS
5755	30	120	5754.946955	5745 – 5825	PASS
5755	20	120	5755.040249	5745 – 5825	PASS
5755	10	120	5754.952173	5745 – 5825	PASS
5755	0	120	5754.908350	5745 – 5825	PASS
5755	-10	120	5754.970679	5745 – 5825	PASS
5755	-20	120	5754.976887	5745 – 5825	PASS
5755	-30	120	5755.079372	5745 – 5825	PASS

## Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5795	20	132	5794.976560	5745 – 5825	PASS
5795	20	108	5794.980464	5745 – 5825	PASS
5795	50	120	5795.053547	5745 – 5825	PASS
5795	40	120	5795.071755	5745 – 5825	PASS
5795	30	120	5794.989789	5745 – 5825	PASS
5795	20	120	5794.909062	5745 – 5825	PASS
5795	10	120	5795.070606	5745 – 5825	PASS
5795	0	120	5794.943231	5745 – 5825	PASS
5795	-10	120	5794.943866	5745 – 5825	PASS
5795	-20	120	5795.024793	5745 – 5825	PASS
5795	-30	120	5795.006434	5745 – 5825	PASS

## Ant2

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5795	20	132	5794.904908	5745 – 5825	PASS
5795	20	108	5794.998064	5745 – 5825	PASS
5795	50	120	5795.073749	5745 – 5825	PASS
5795	40	120	5794.964862	5745 – 5825	PASS
5795	30	120	5795.096738	5745 – 5825	PASS
5795	20	120	5794.966031	5745 – 5825	PASS
5795	10	120	5794.973044	5745 – 5825	PASS
5795	0	120	5795.007922	5745 – 5825	PASS
5795	-10	120	5795.091900	5745 – 5825	PASS
5795	-20	120	5795.050427	5745 – 5825	PASS
5795	-30	120	5795.051496	5745 – 5825	PASS

## Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5775	20	132	5775.069852	5745 – 5825	PASS
5775	20	108	5774.910218	5745 – 5825	PASS
5775	50	120	5775.038829	5745 – 5825	PASS
5775	40	120	5774.992270	5745 – 5825	PASS
5775	30	120	5774.948452	5745 – 5825	PASS
5775	20	120	5774.953492	5745 – 5825	PASS
5775	10	120	5774.903603	5745 – 5825	PASS
5775	0	120	5774.973904	5745 – 5825	PASS
5775	-10	120	5775.010758	5745 – 5825	PASS
5775	-20	120	5774.908281	5745 – 5825	PASS
5775	-30	120	5775.090681	5745 – 5825	PASS

## Ant2

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5775	20	132	5774.943664	5745 – 5825	PASS
5775	20	108	5775.070948	5745 – 5825	PASS
5775	50	120	5774.948059	5745 – 5825	PASS
5775	40	120	5774.960877	5745 – 5825	PASS
5775	30	120	5774.996562	5745 – 5825	PASS
5775	20	120	5774.907191	5745 – 5825	PASS
5775	10	120	5774.979900	5745 – 5825	PASS
5775	0	120	5775.013251	5745 – 5825	PASS
5775	-10	120	5775.066229	5745 – 5825	PASS
5775	-20	120	5774.993625	5745 – 5825	PASS
5775	-30	120	5775.062617	5745 – 5825	PASS

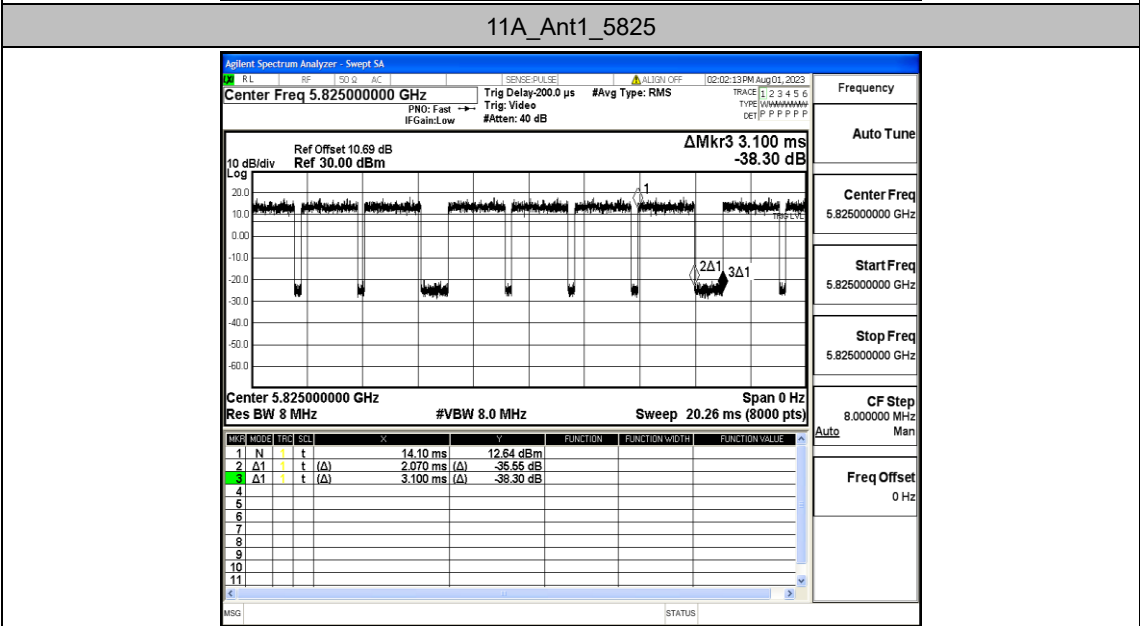
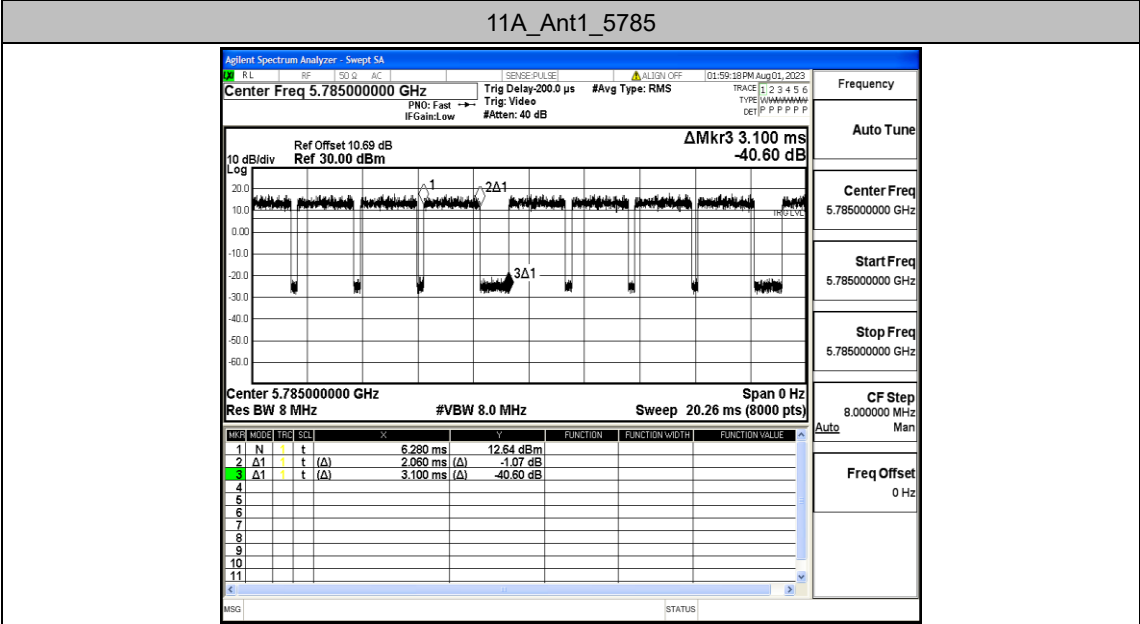
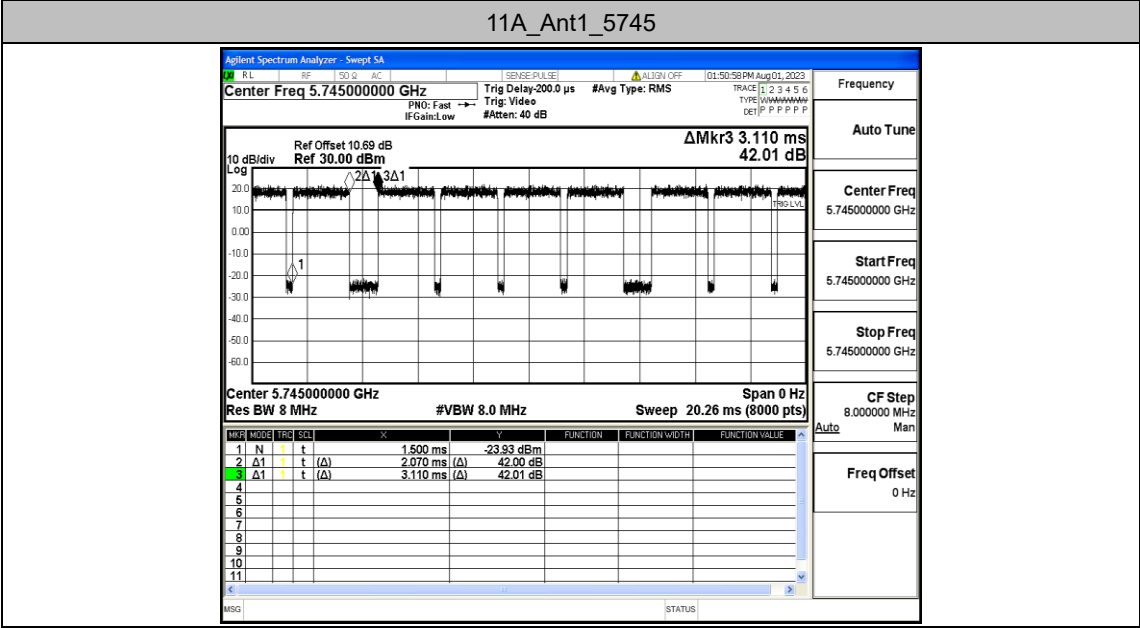


## Appendix F: Duty Cycle

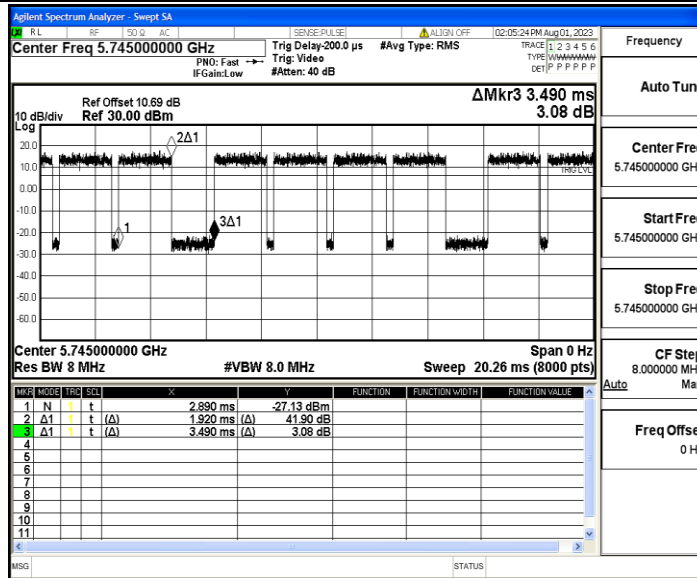
### Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [kHz]
11A	Ant1	5745	2.07	3.11	66.56	0.48
		5785	2.06	3.10	66.45	0.49
		5825	2.07	3.10	66.77	0.48
11N20MIMO	Ant1	5745	1.92	3.49	55.01	0.52
		5785	1.92	3.49	55.01	0.52
		5825	1.92	3.49	55.01	0.52
11N40MIMO	Ant1	5755	3.78	10.02	37.72	0.26
		5795	3.78	9.98	37.88	0.26
11AC20MIMO	Ant1	5745	2.07	2.55	81.18	0.48
		5785	2.06	2.52	81.75	0.49
		5825	2.07	2.54	81.50	0.48
11AC40MIMO	Ant1	5755	2.07	2.56	80.86	0.48
		5795	2.06	2.55	80.78	0.49

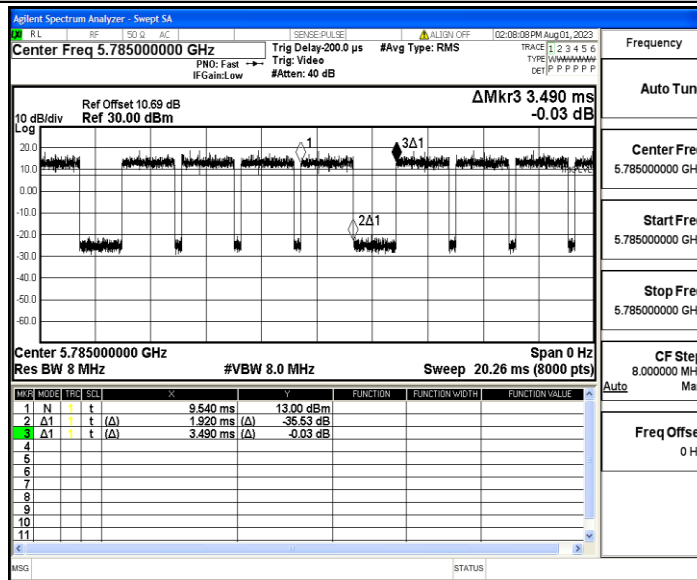
Test Graphs



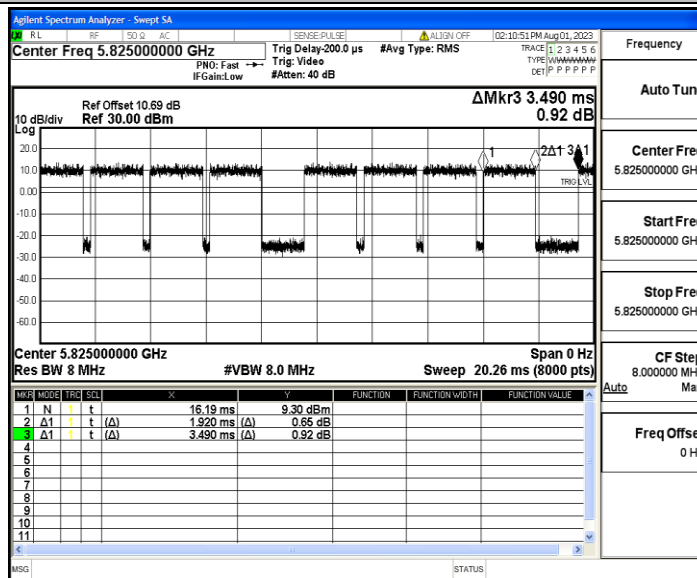
**11N20MIMO\_Ant1\_5745**



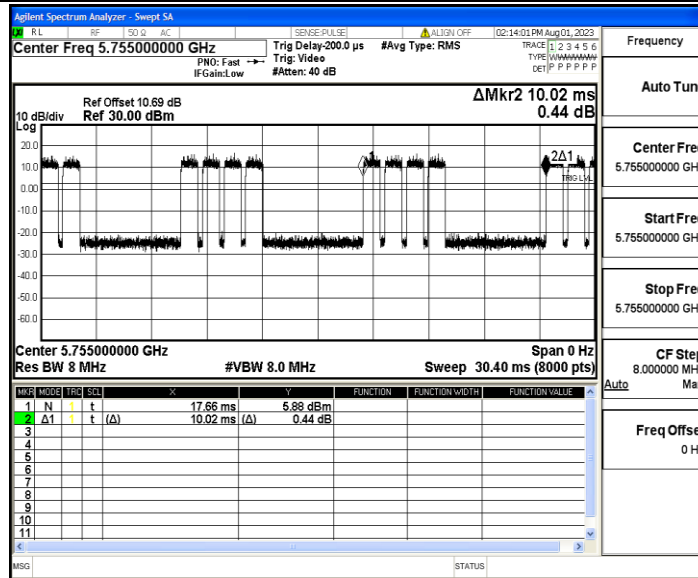
11N20MIMO\_Ant1\_5785



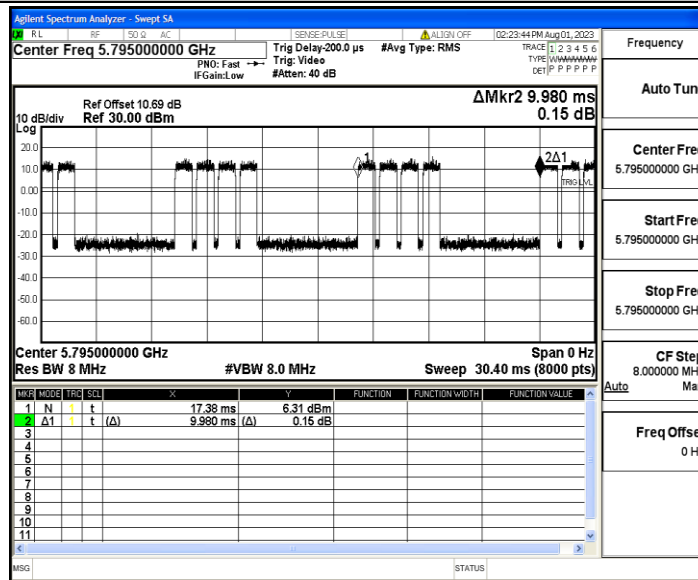
11N20MIMO\_Ant1\_5825



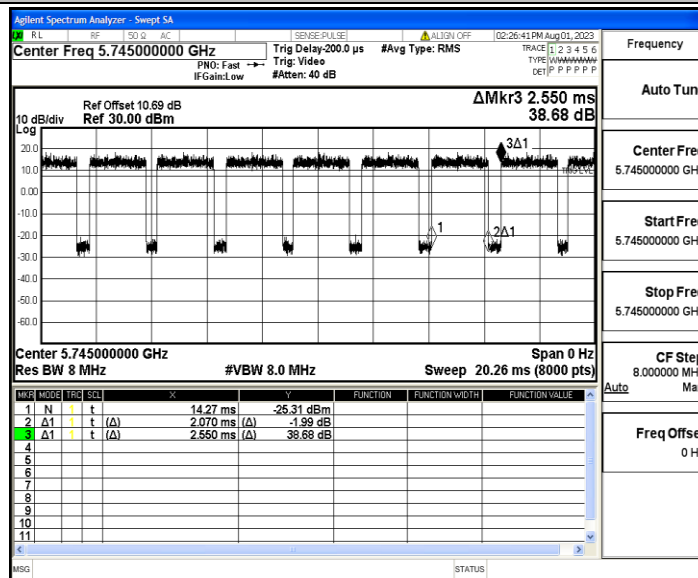
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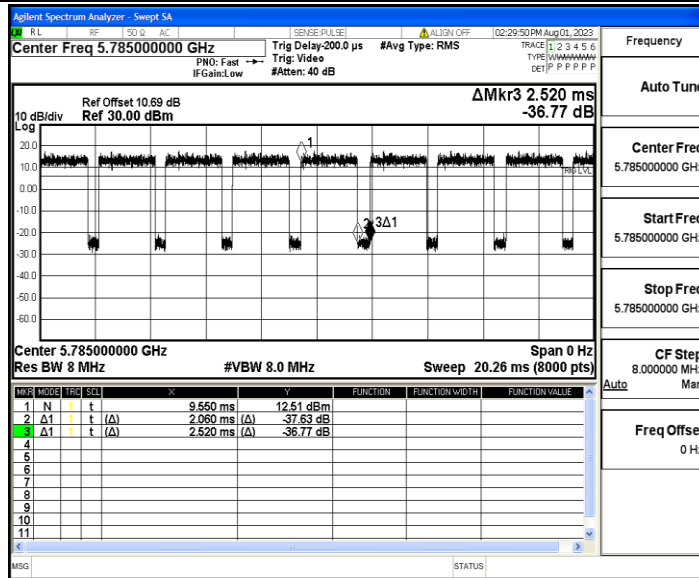
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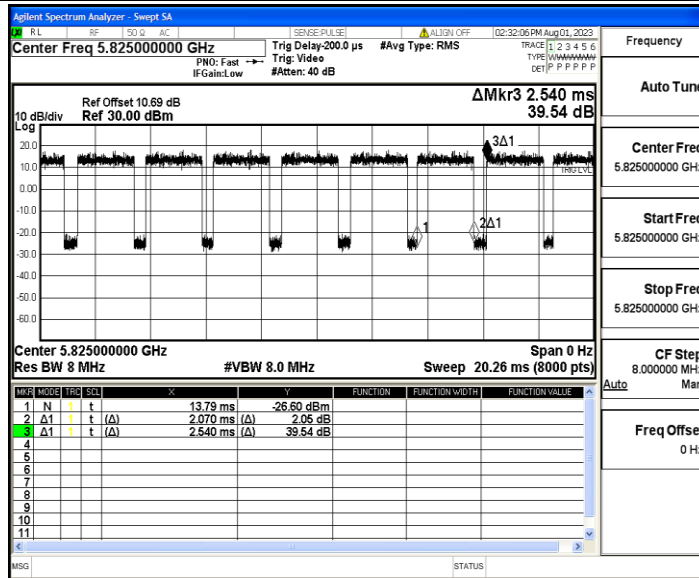
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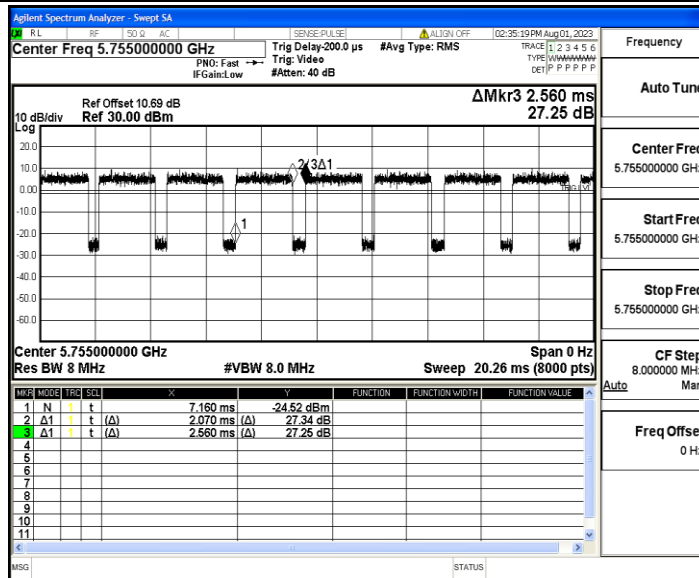
11AC20MIMO\_Ant1\_5785



11AC20MIMO\_Ant1\_5825



11AC40MIMO\_Ant1\_5755



11AC40MIMO\_Ant1\_5795

