



Appendix E

RF Test Data for 5.8GWIFI(Conducted Measurement)

Product Name: Device_UI_Protech_651G

Test Model: 42-18000-0

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Ling Zhu



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E.1 Min emission bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant	5745	16.320	5736.840	5753.160	0.5	PASS
		5785	16.320	5776.840	5793.160	0.5	PASS
		5825	16.400	5816.800	5833.200	0.5	PASS
11N20SISO	Ant	5745	17.560	5736.200	5753.760	0.5	PASS
		5785	17.560	5776.200	5793.760	0.5	PASS
		5825	17.360	5816.240	5833.600	0.5	PASS
11N40SISO	Ant	5755	36.160	5736.760	5772.920	0.5	PASS
		5795	36.080	5777.000	5813.080	0.5	PASS
11AC20SISO	Ant	5745	17.280	5736.360	5753.640	0.5	PASS
		5785	17.320	5776.320	5793.640	0.5	PASS
		5825	17.360	5816.400	5833.760	0.5	PASS
11AC40SISO	Ant	5755	36.000	5737.080	5773.080	0.5	PASS
		5795	36.480	5776.760	5813.240	0.5	PASS
11AC80SISO	Ant	5775	75.840	5737.080	5812.920	0.5	PASS





Test Graphs

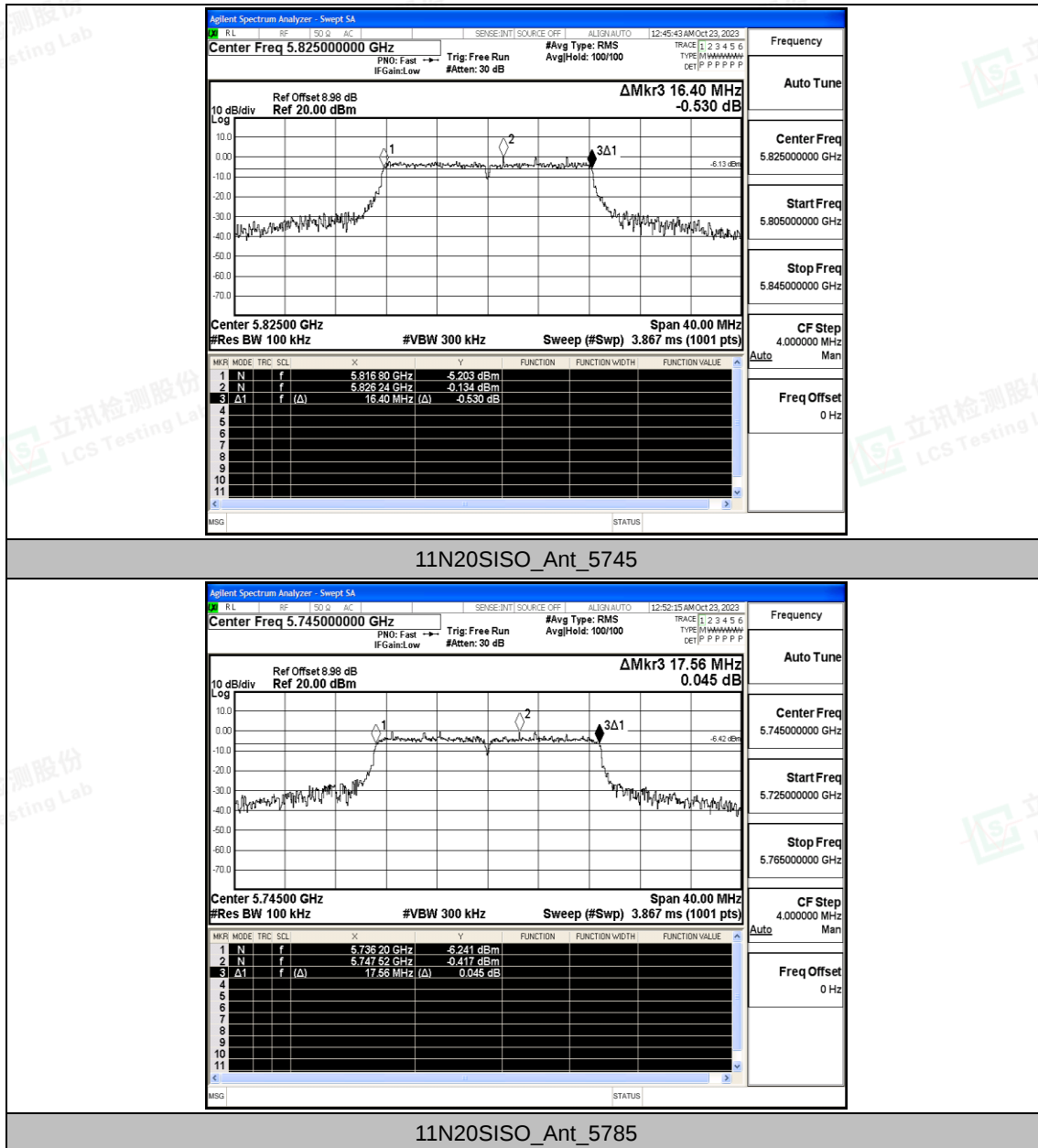


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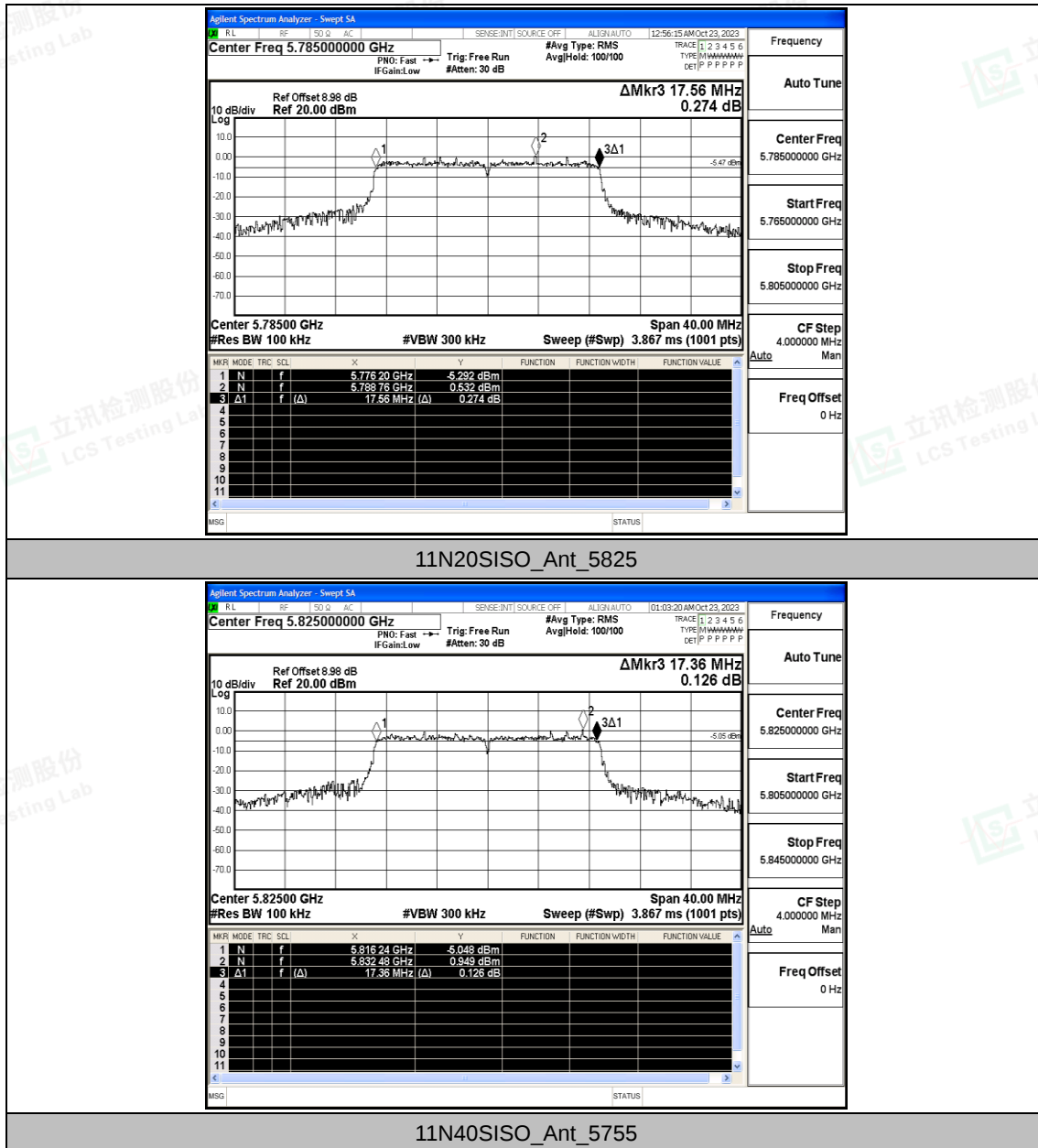


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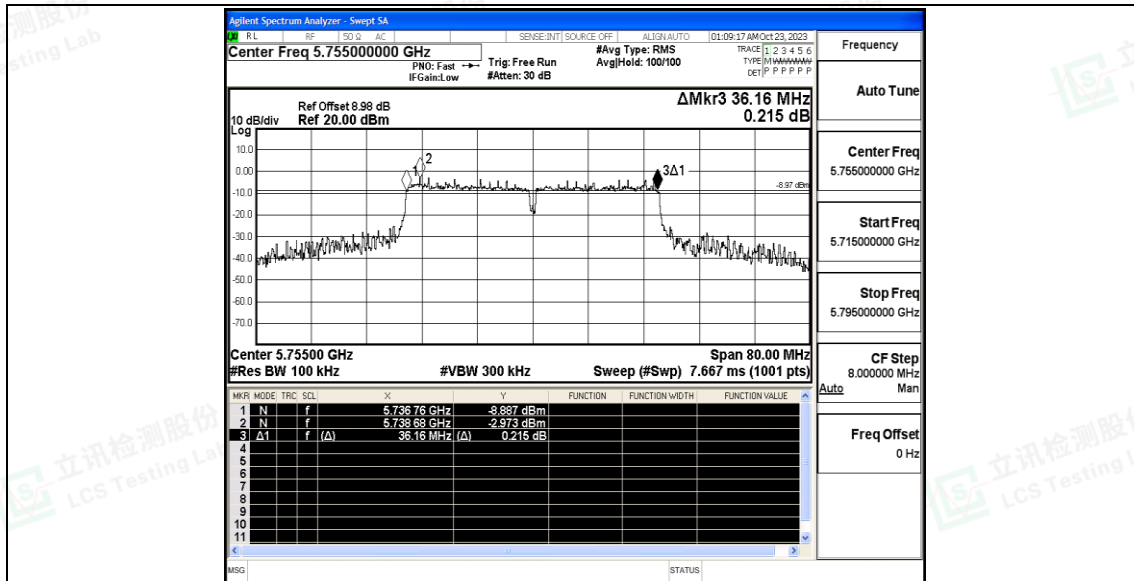


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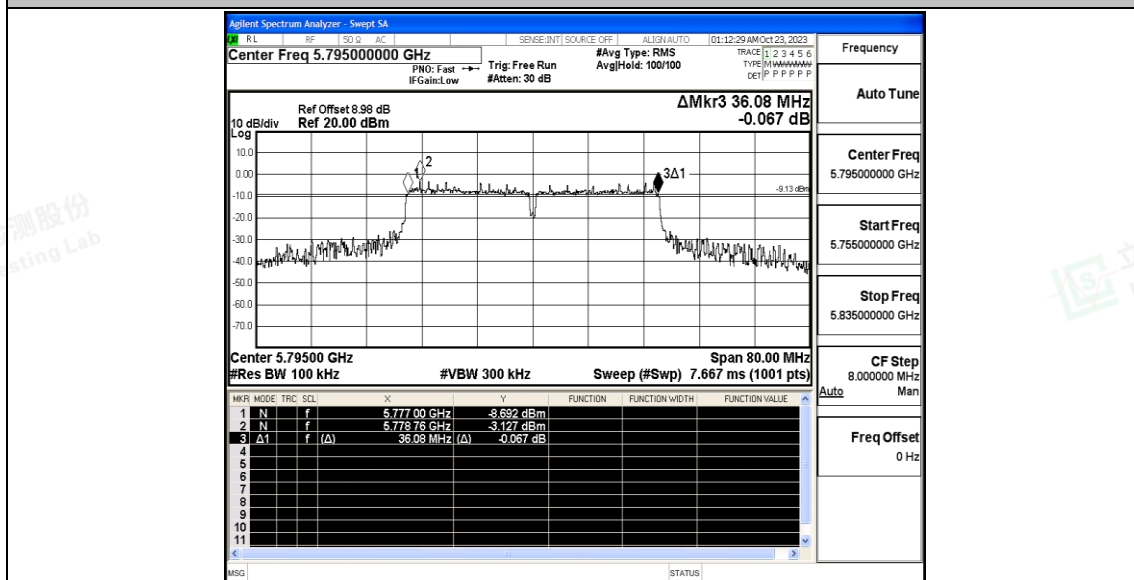
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11N40SISO_Ant_5795



11AC20SISO_Ant_5745

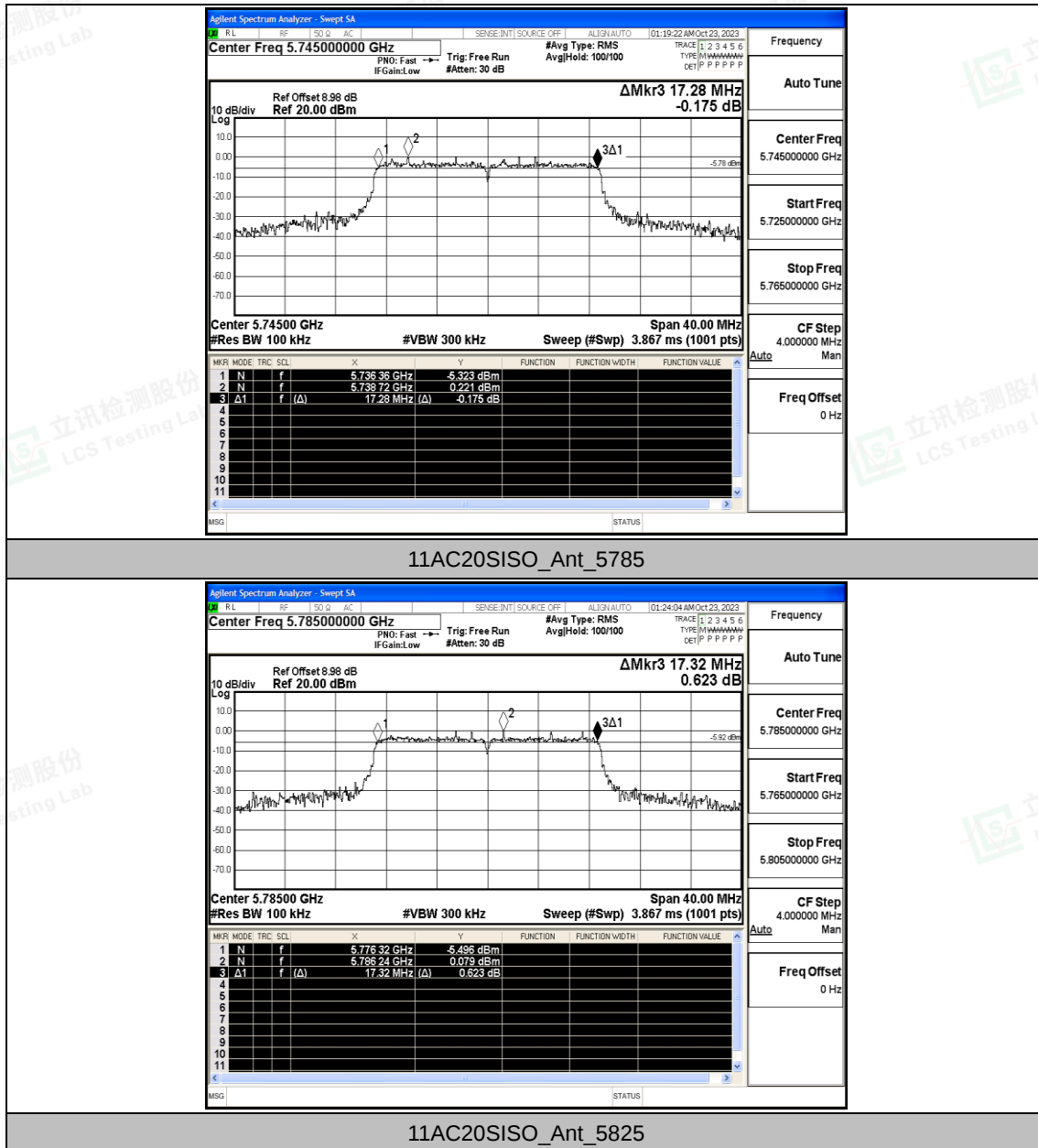


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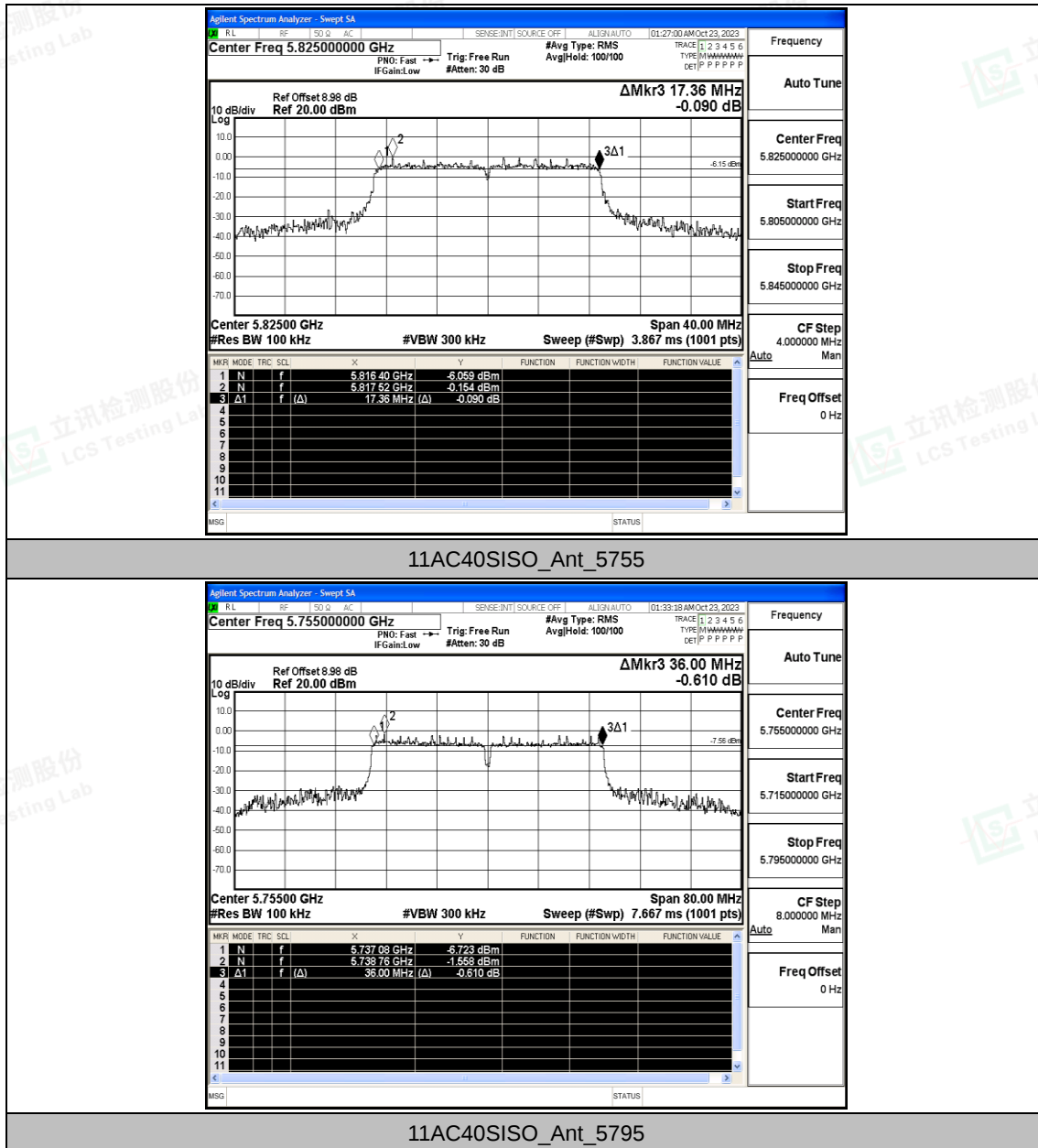


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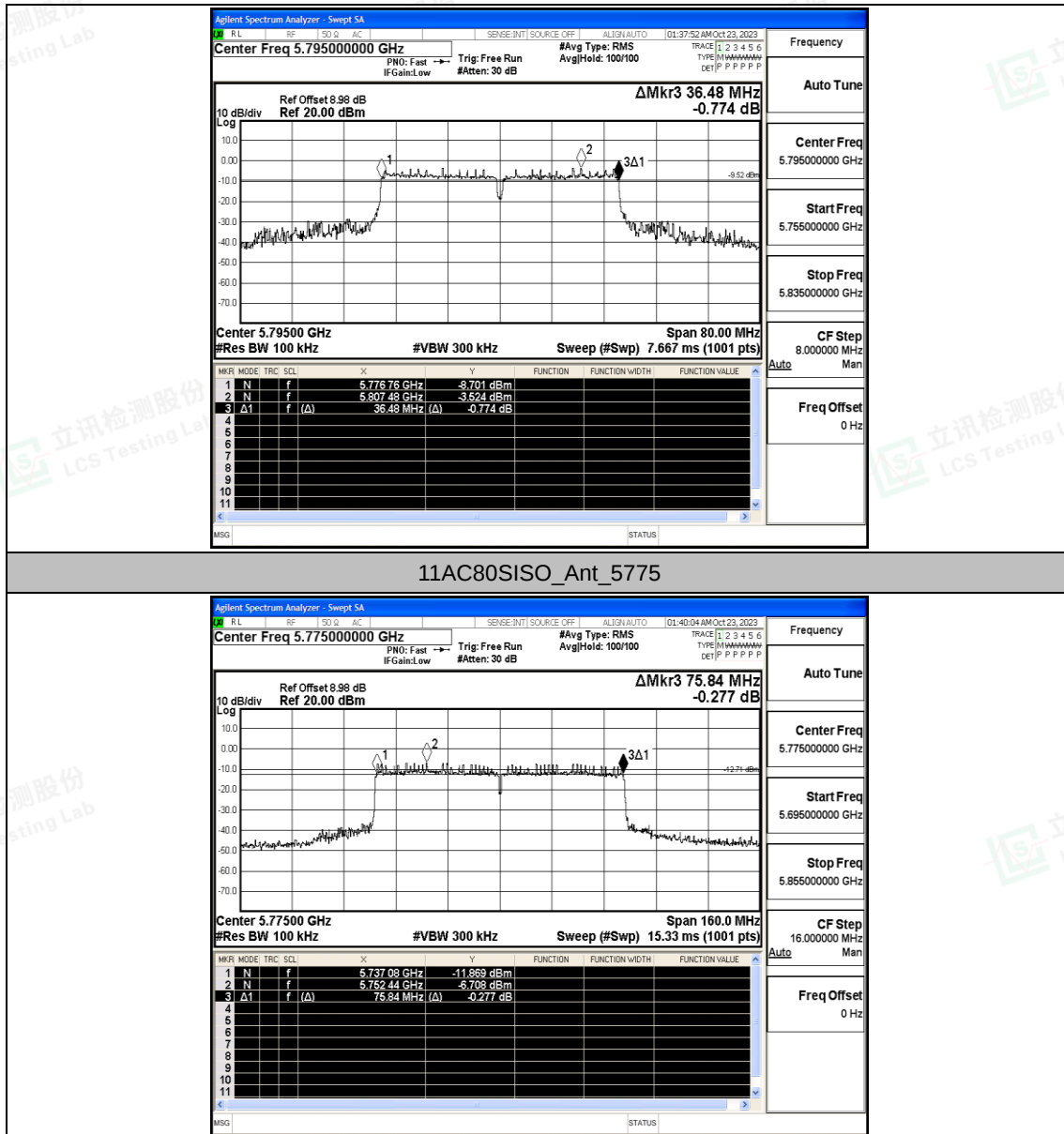


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E.2 Occupied channel bandwidth

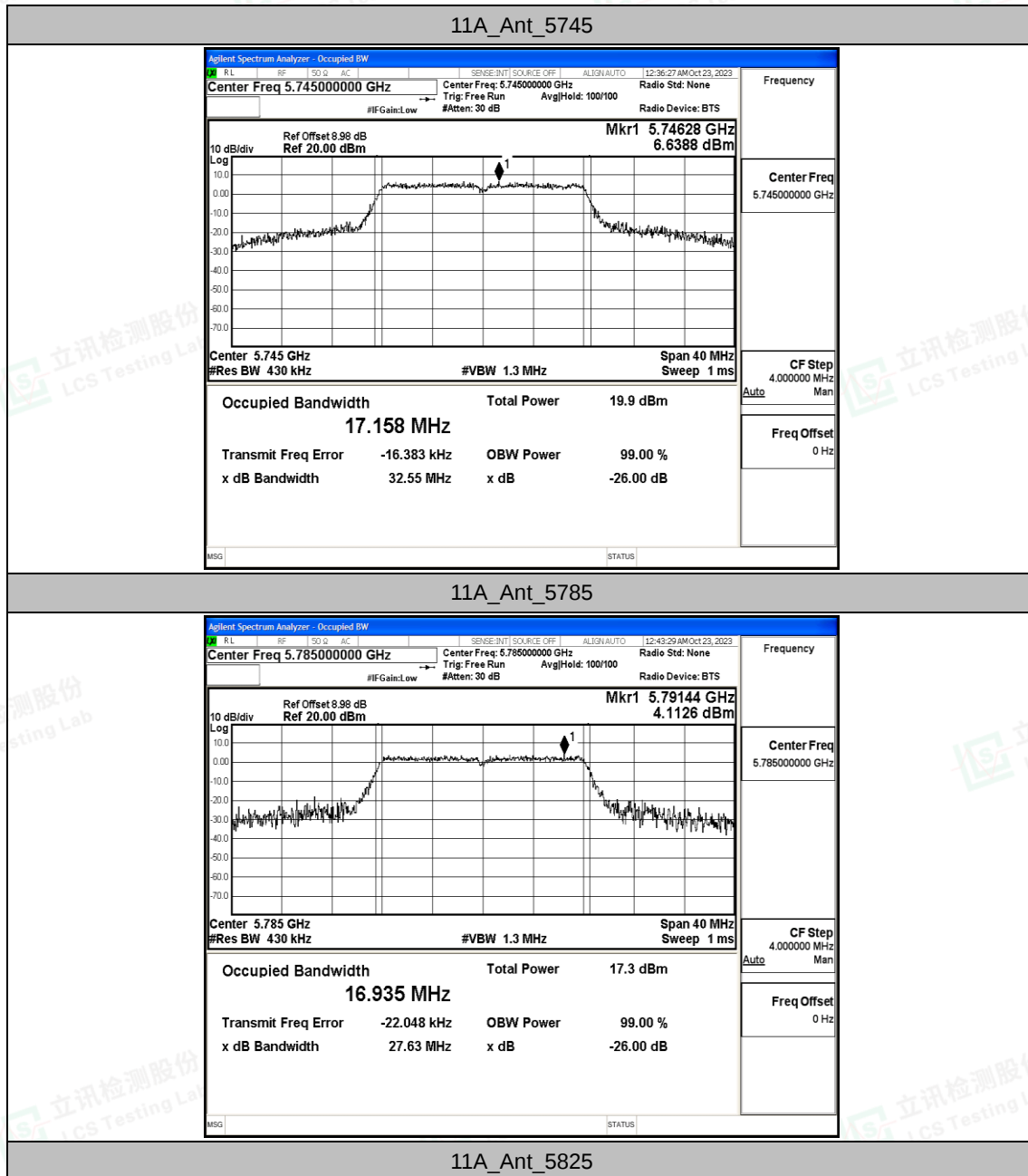
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant	5745	17.158	5736.4046	5753.5626	---	---
		5785	16.935	5776.5105	5793.4455	---	---
		5825	17.003	5816.4941	5833.4971	---	---
11N20SISO	Ant	5745	17.902	5736.0048	5753.9068	---	---
		5785	17.919	5776.0165	5793.9355	---	---
		5825	17.873	5816.0404	5833.9134	---	---
11N40SISO	Ant	5755	36.582	5736.6783	5773.2603	---	---
		5795	36.663	5776.6095	5813.2725	---	---
11AC20SISO	Ant	5745	17.835	5736.0659	5753.9009	---	---
		5785	17.875	5776.0085	5793.8835	---	---
		5825	17.855	5816.0528	5833.9078	---	---
11AC40SISO	Ant	5755	36.615	5736.6779	5773.2929	---	---
		5795	36.691	5776.6163	5813.3073	---	---
11AC80SISO	Ant	5775	75.952	5737.0257	5812.9777	---	---





Test Graphs

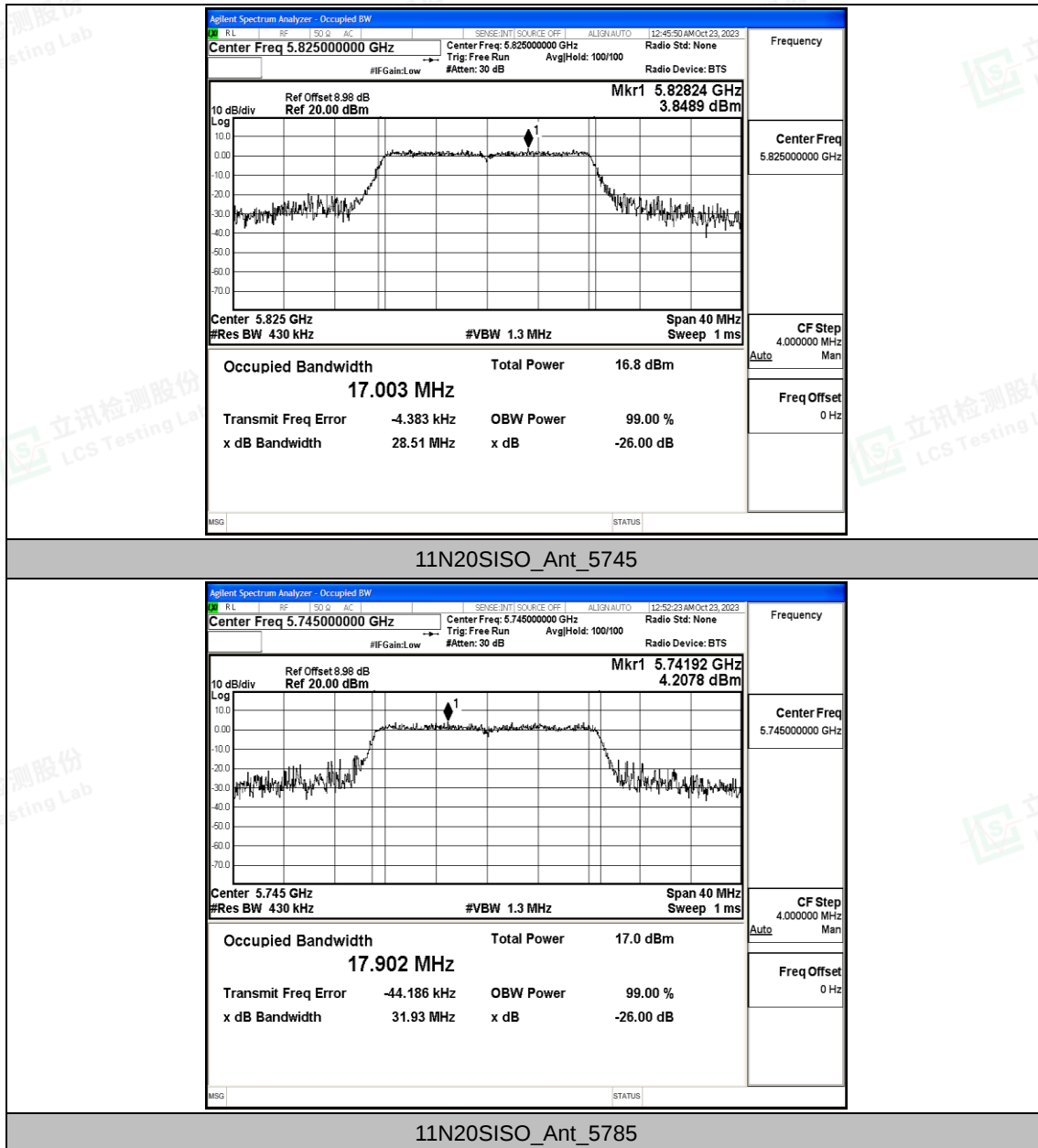


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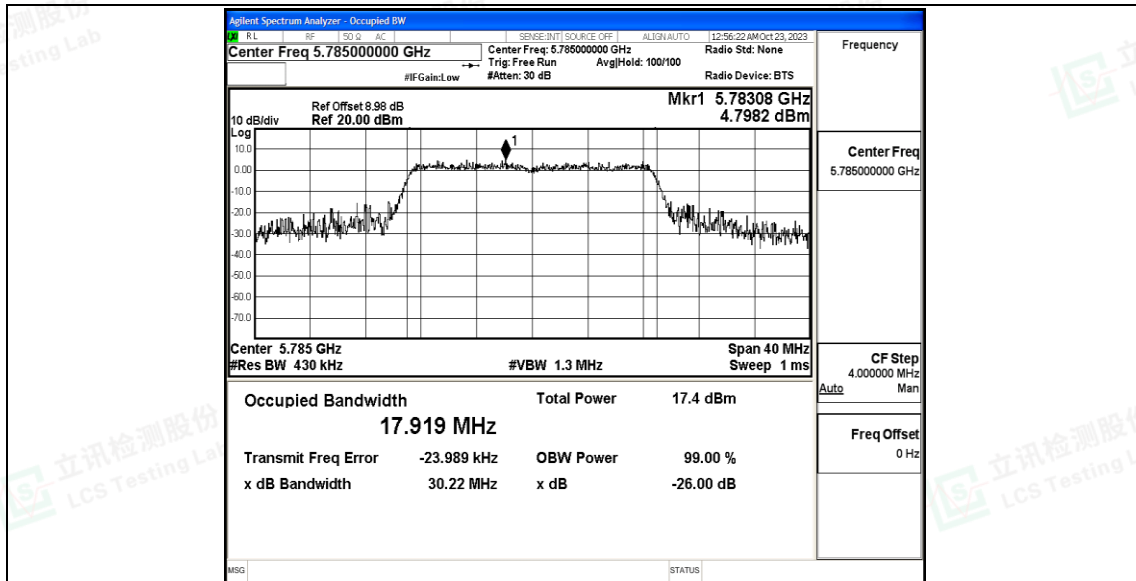


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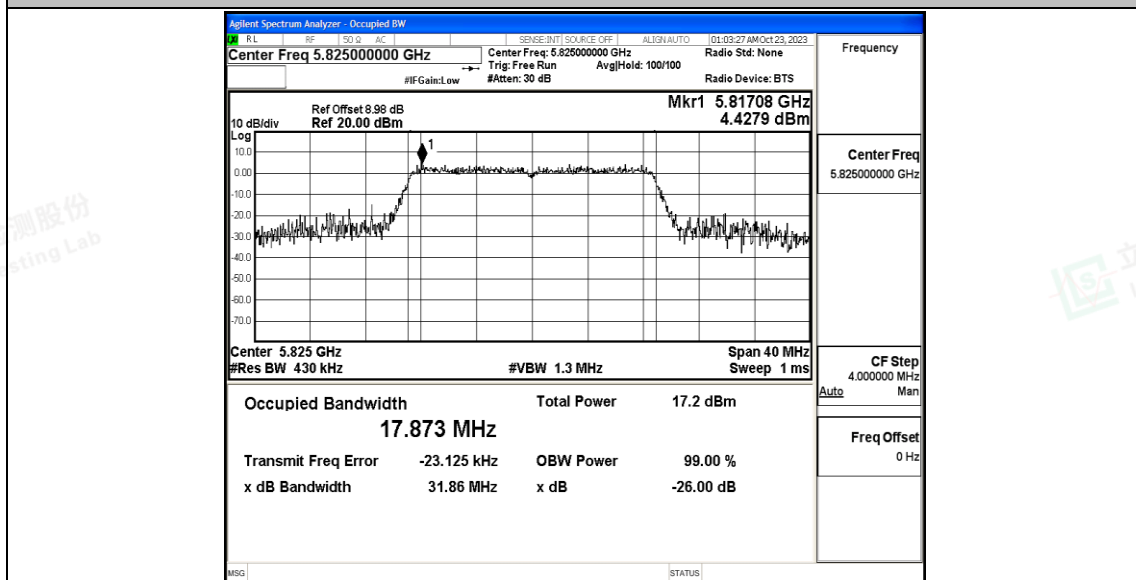
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11N20SISO_Ant_5825



11N40SISO_Ant_5755

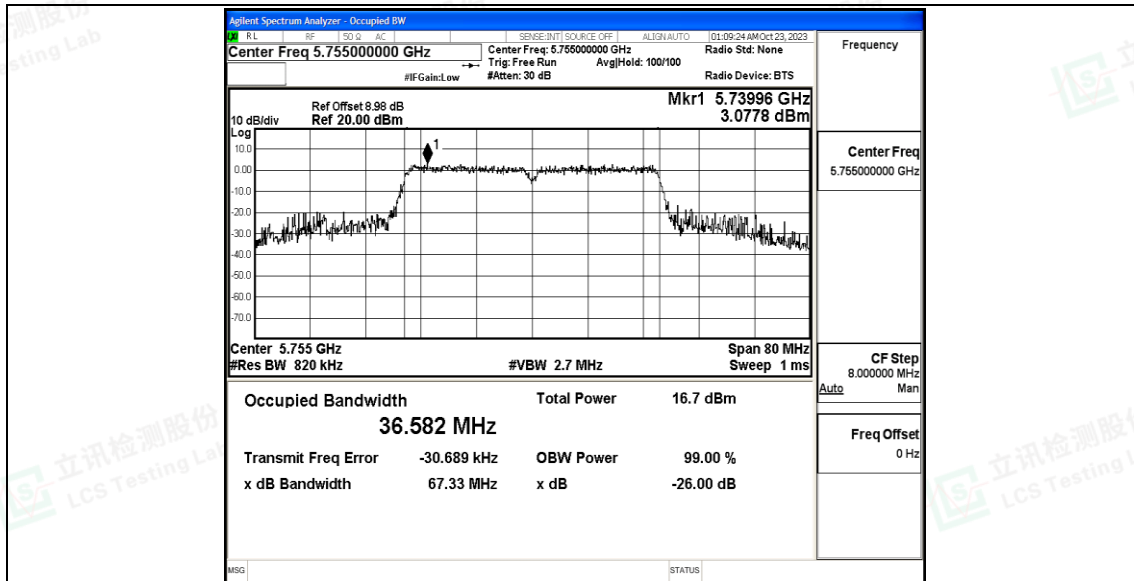


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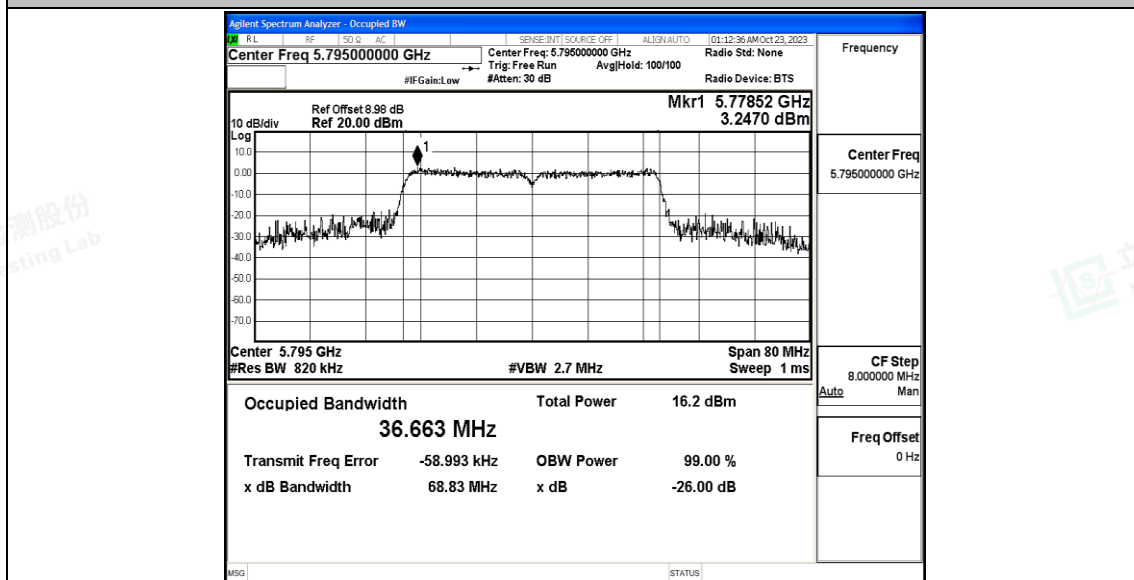
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11N40SISO_Ant_5795



11AC20SISO_Ant_5745

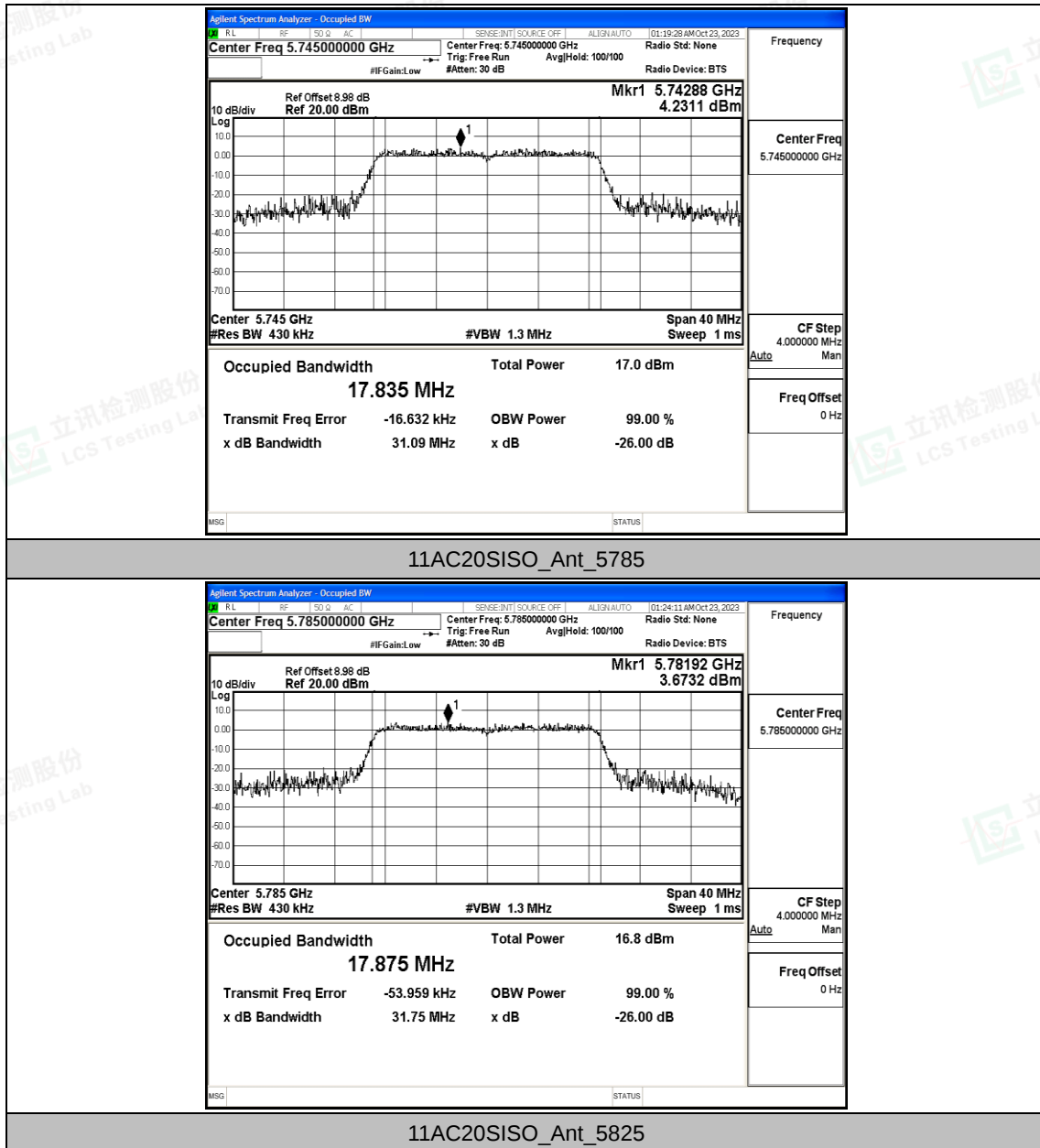


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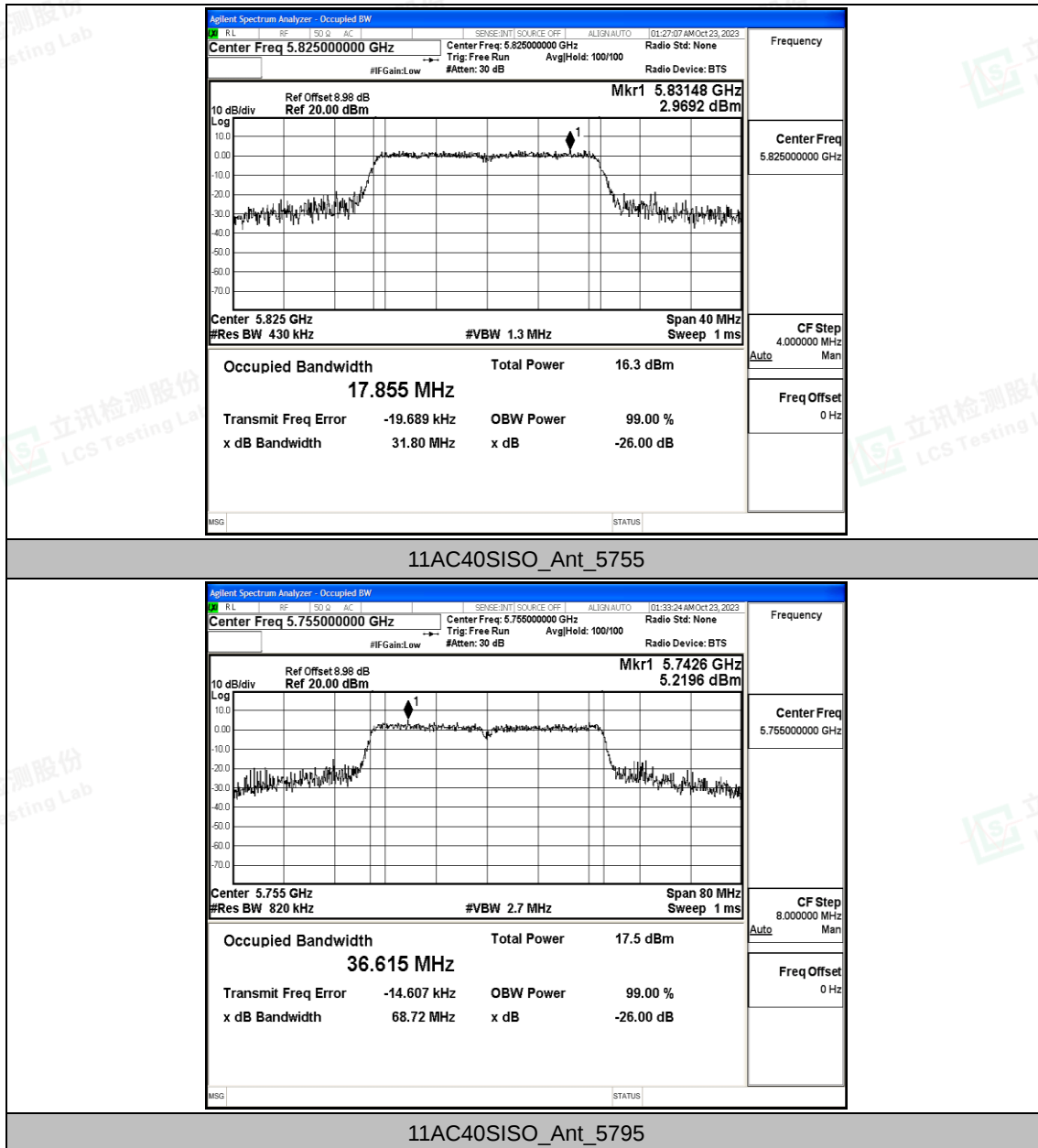


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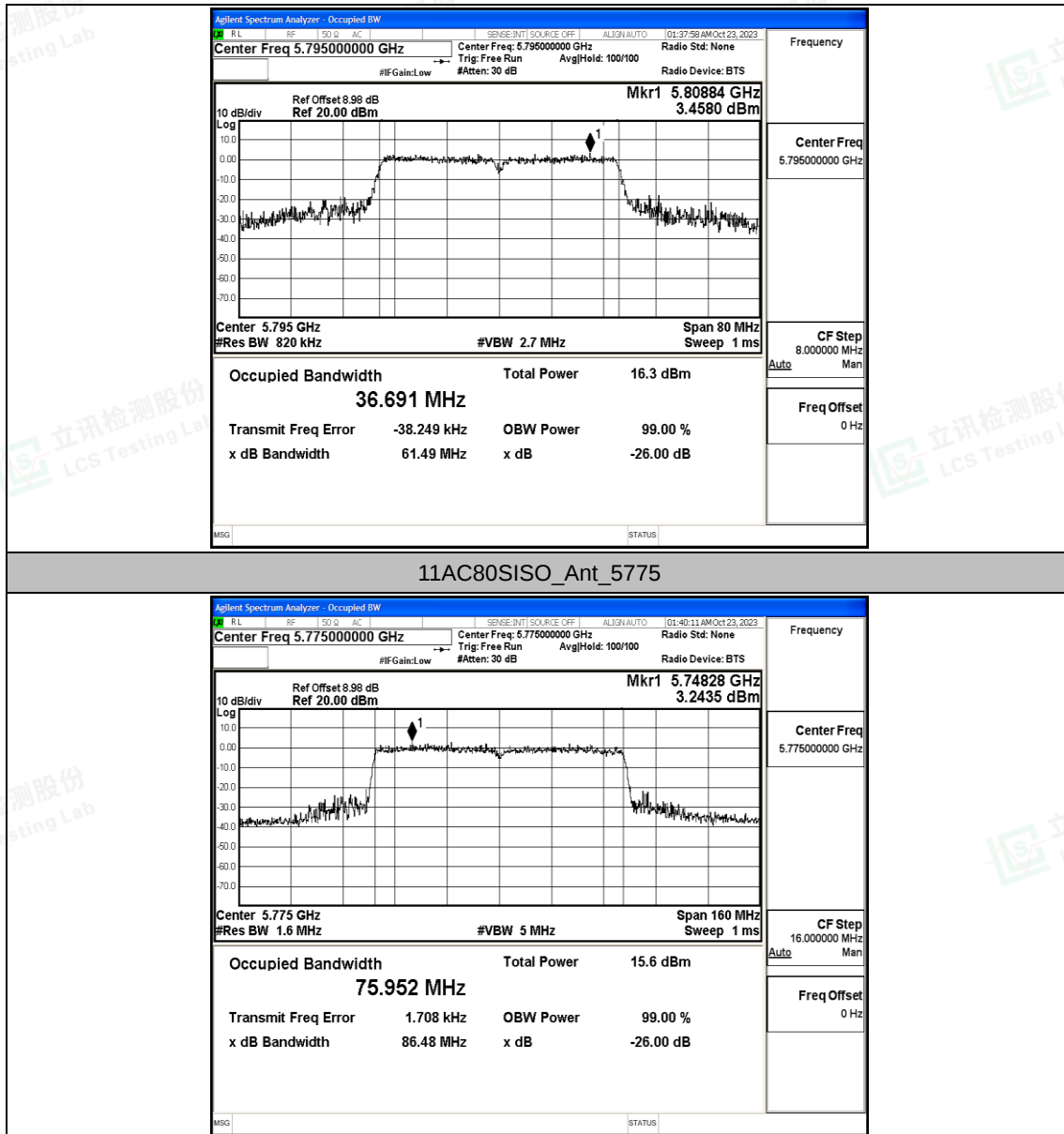


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E.3 Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency [MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant	5745	10.79	88.05	0.55	11.34	≤30.00	PASS
		5785	11.48	88.54	0.53	12.01	≤30.00	PASS
		5825	10.91	88.54	0.53	11.44	≤30.00	PASS
11N20SISO	Ant	5745	11.00	86.13	0.65	11.65	≤30.00	PASS
		5785	11.45	86.67	0.62	12.07	≤30.00	PASS
		5825	11.24	81.38	0.89	12.13	≤30.00	PASS
11N40SISO	Ant	5755	9.66	70.24	1.53	11.19	≤30.00	PASS
		5795	9.31	75.64	1.21	10.52	≤30.00	PASS
11AC20SISO	Ant	5745	10.81	81.94	0.87	11.68	≤30.00	PASS
		5785	10.64	81.51	0.89	11.53	≤30.00	PASS
		5825	10.21	86.86	0.61	10.82	≤30.00	PASS
11AC40SISO	Ant	5755	9.54	75.64	1.21	10.75	≤30.00	PASS
		5795	9.75	70.24	1.53	11.28	≤30.00	PASS
11AC80SISO	Ant	5775	7.97	62.50	2.04	10.01	≤30.00	PASS

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



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E.4 Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
11A	Ant	5745	-2.39	≤30.00	PASS
		5785	-2.44	≤30.00	PASS
		5825	-3.14	≤30.00	PASS
11N20SISO	Ant	5745	-2.86	≤30.00	PASS
		5785	-2.46	≤30.00	PASS
		5825	-2.45	≤30.00	PASS
11N40SISO	Ant	5755	-5.78	≤30.00	PASS
		5795	-6.59	≤30.00	PASS
11AC20SISO	Ant	5745	-2.81	≤30.00	PASS
		5785	-3.00	≤30.00	PASS
		5825	-3.74	≤30.00	PASS
11AC40SISO	Ant	5755	-5.98	≤30.00	PASS
		5795	-5.92	≤30.00	PASS
11AC80SISO	Ant	5775	-9.89	≤30.00	PASS

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

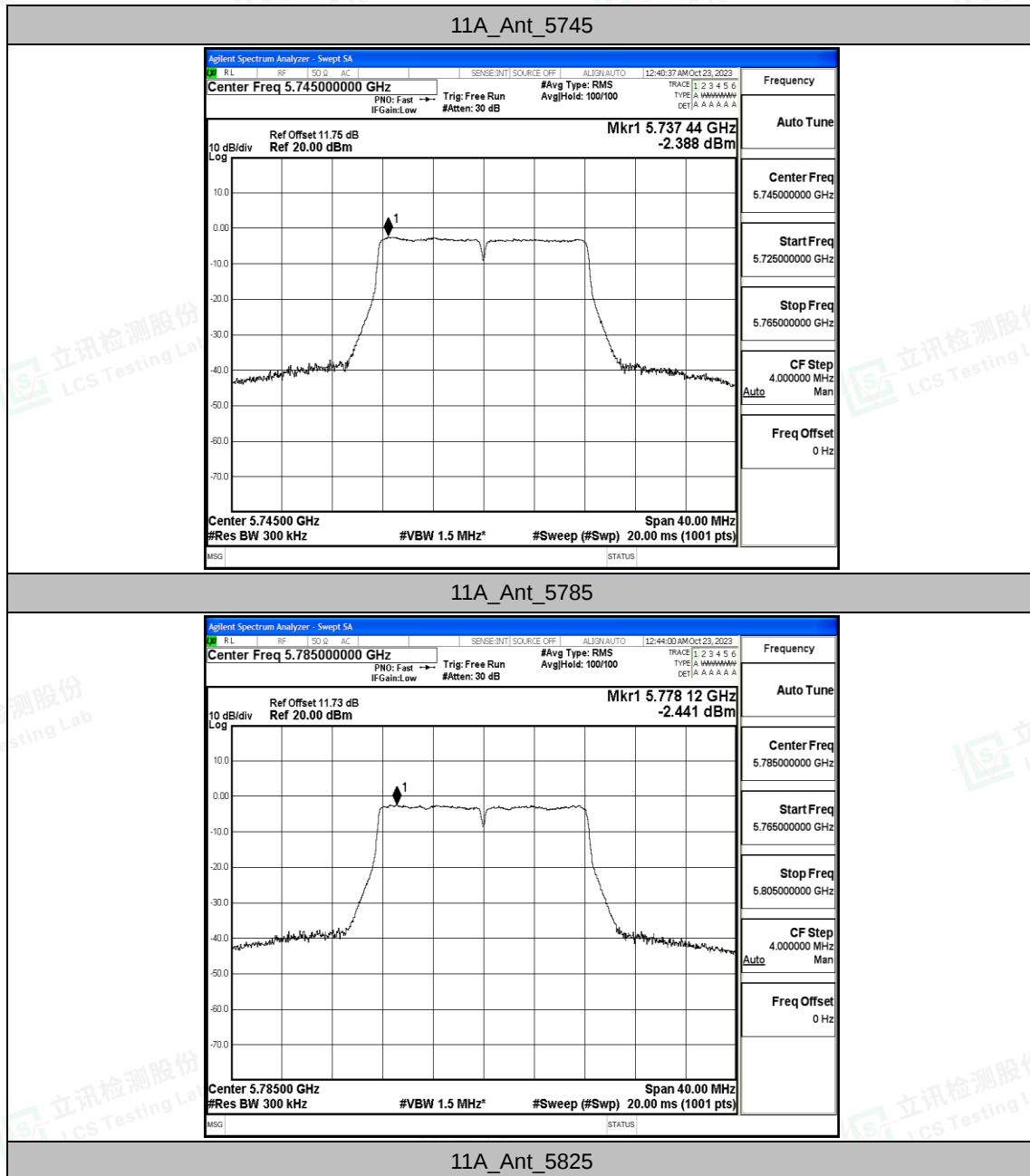
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.



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Test Graphs

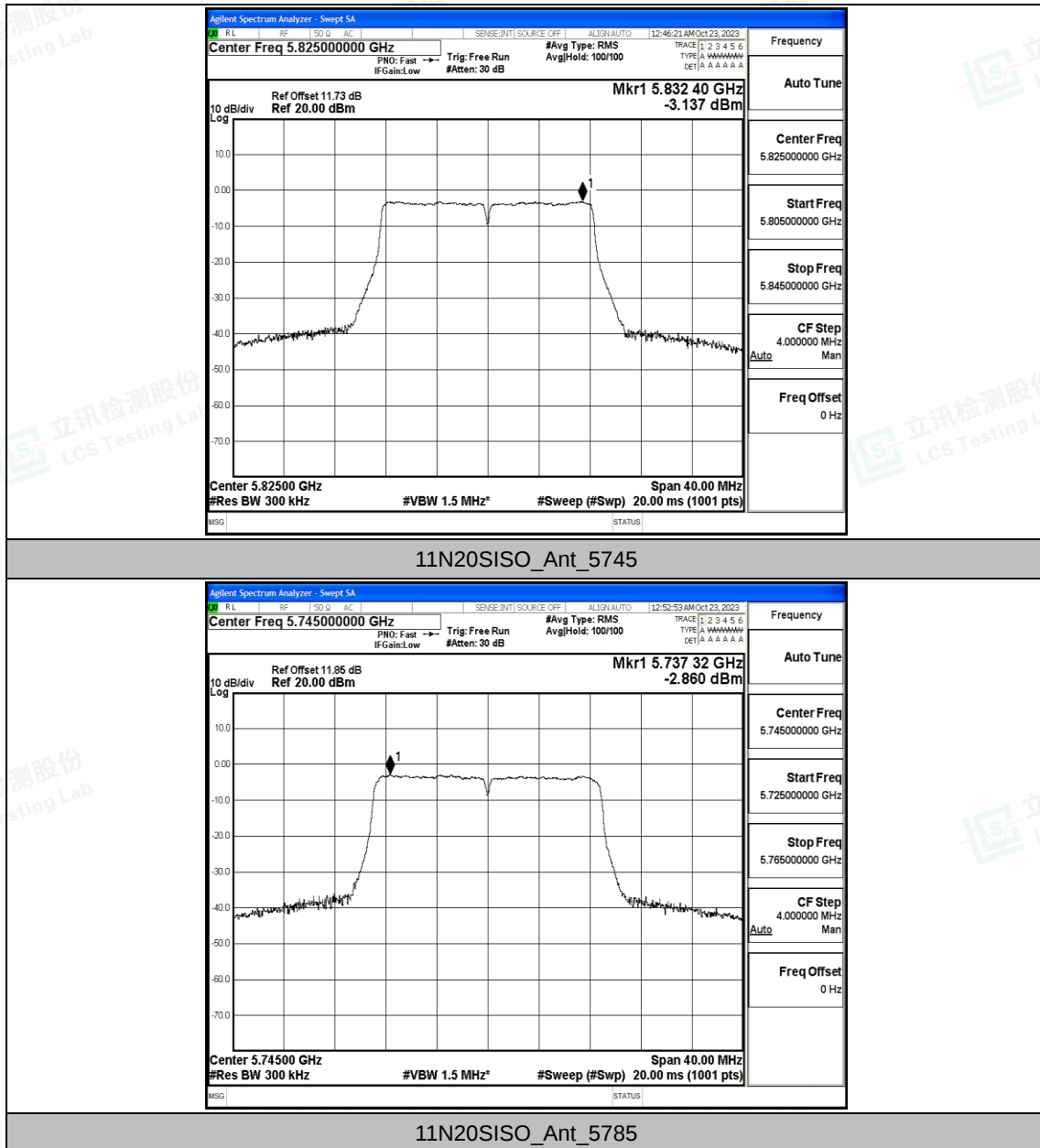


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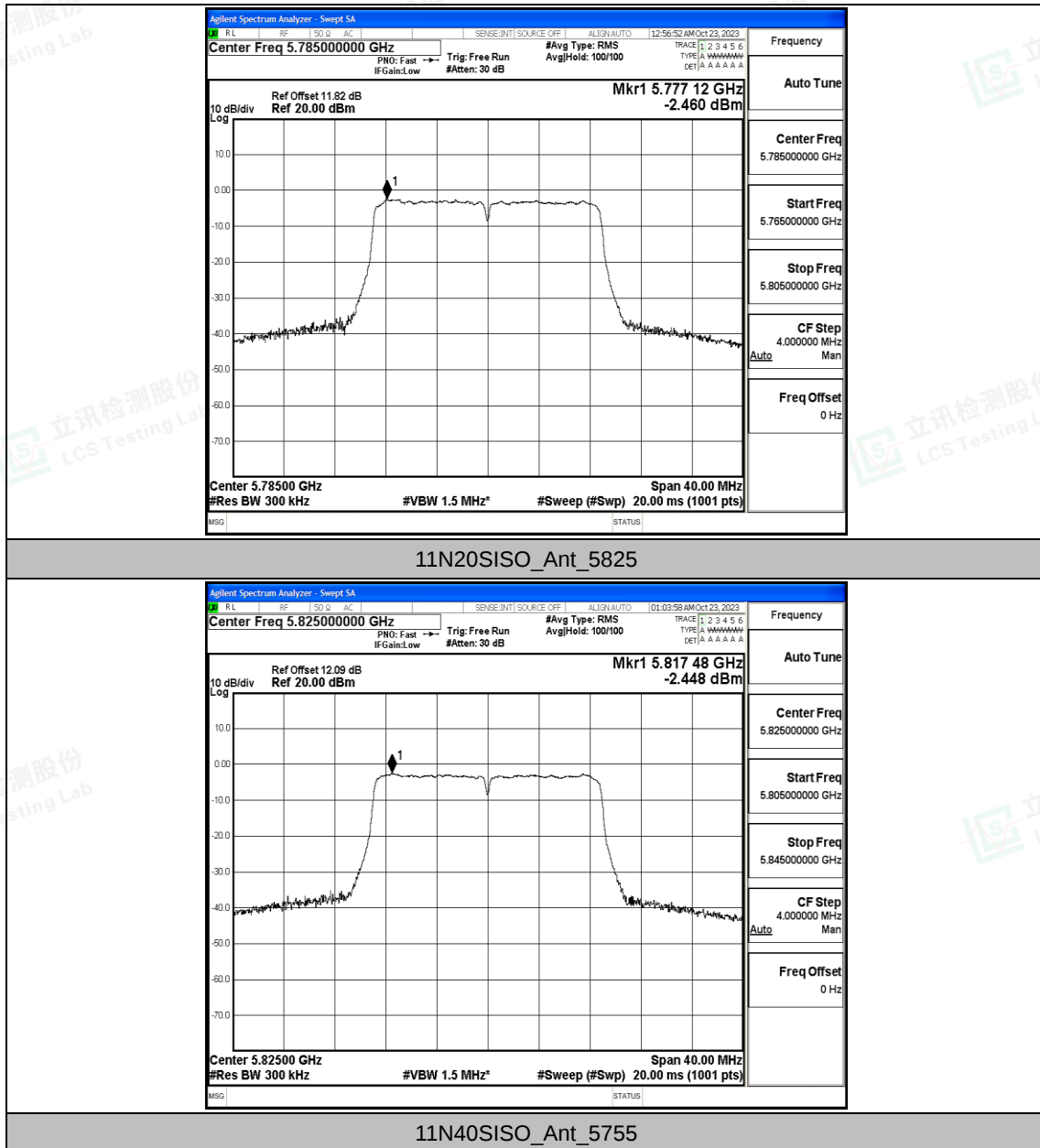


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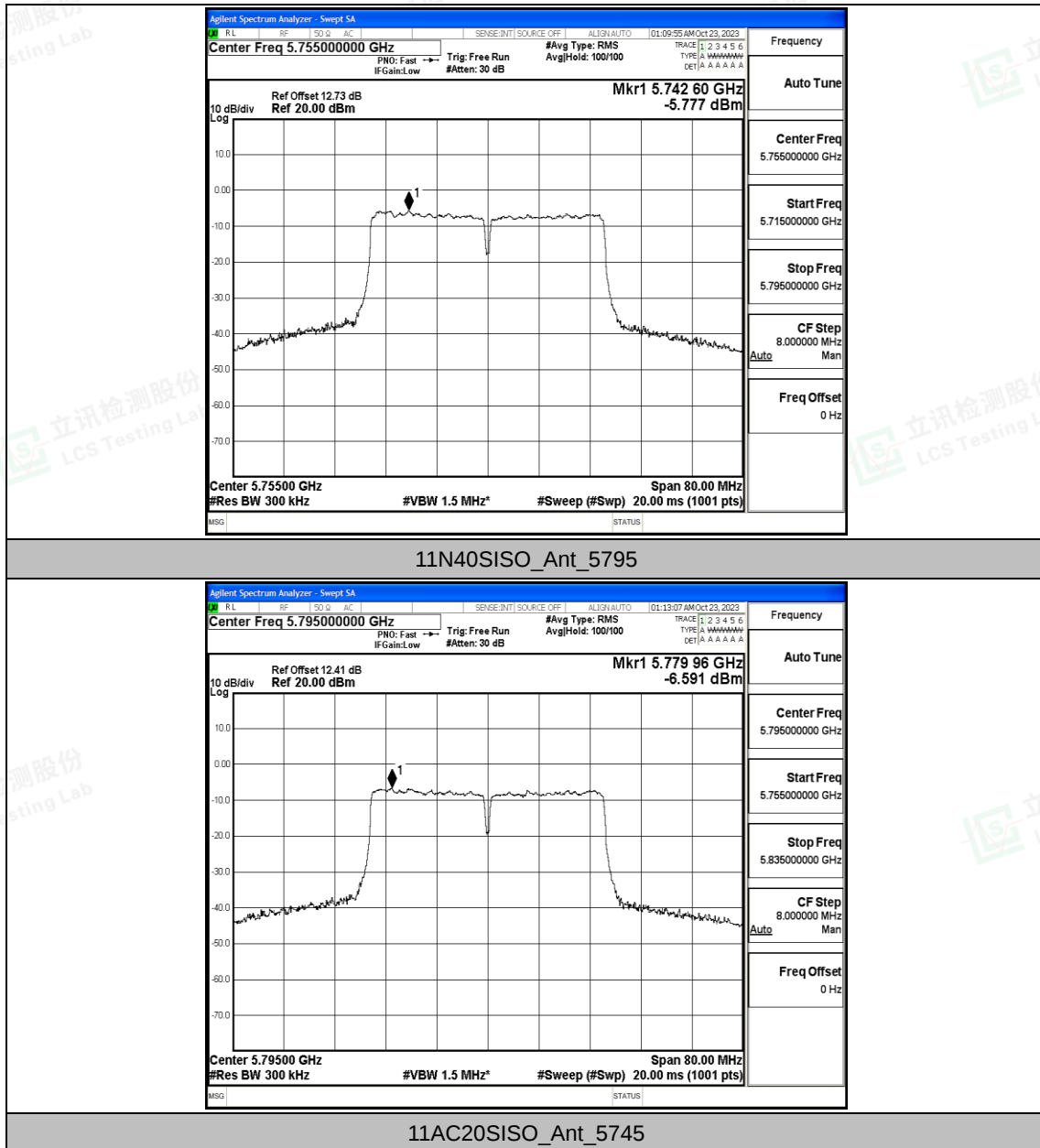


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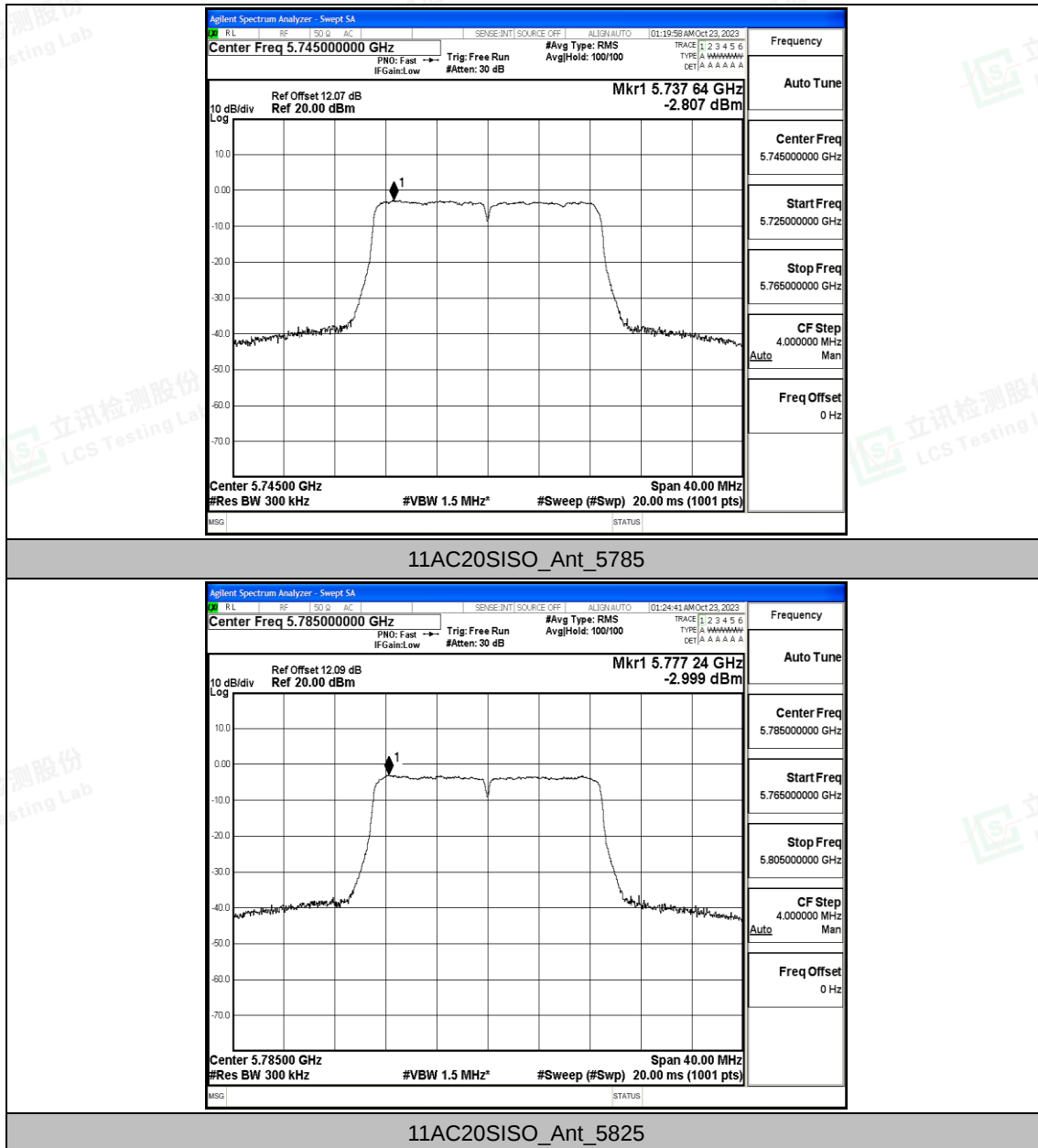


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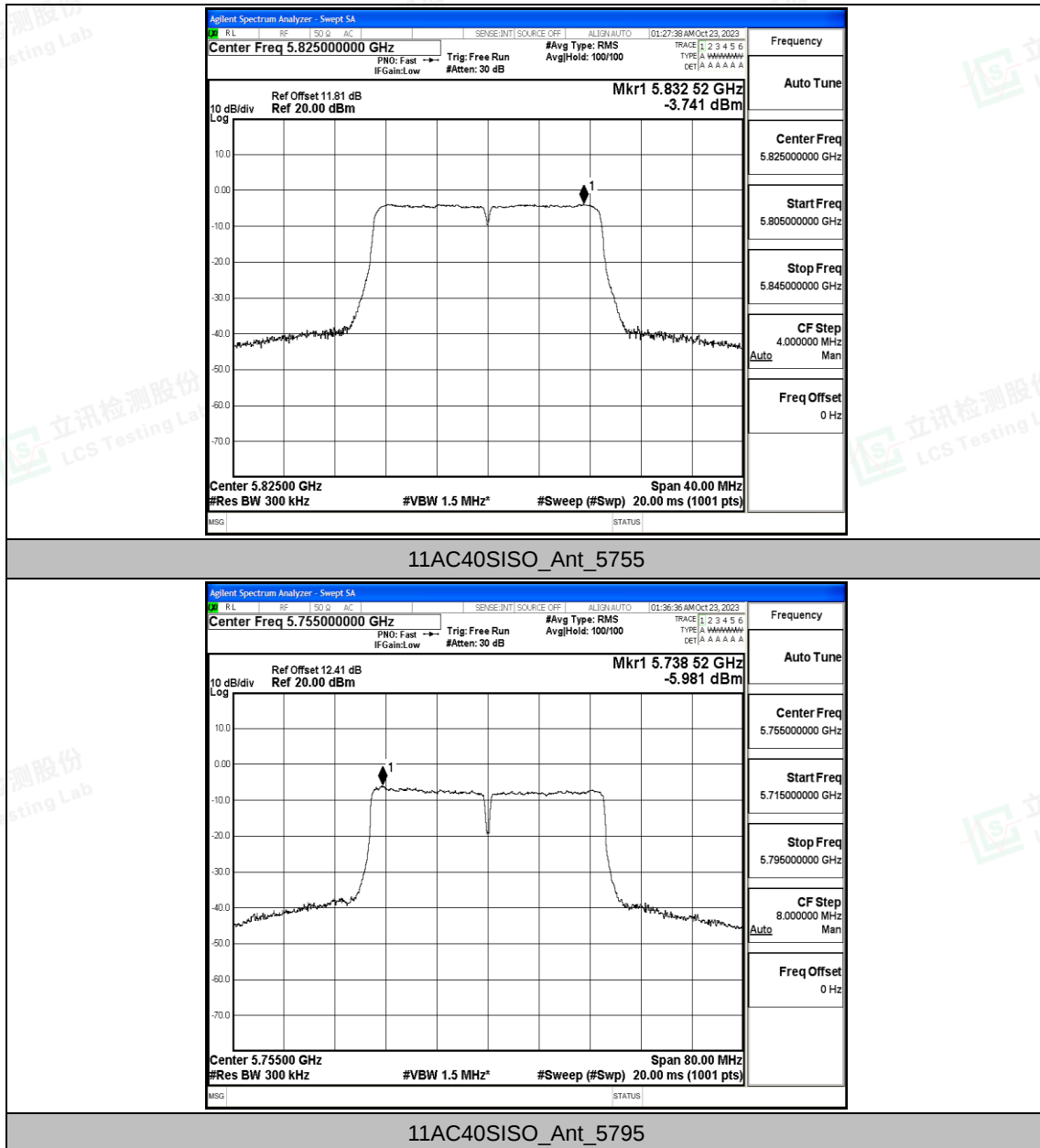


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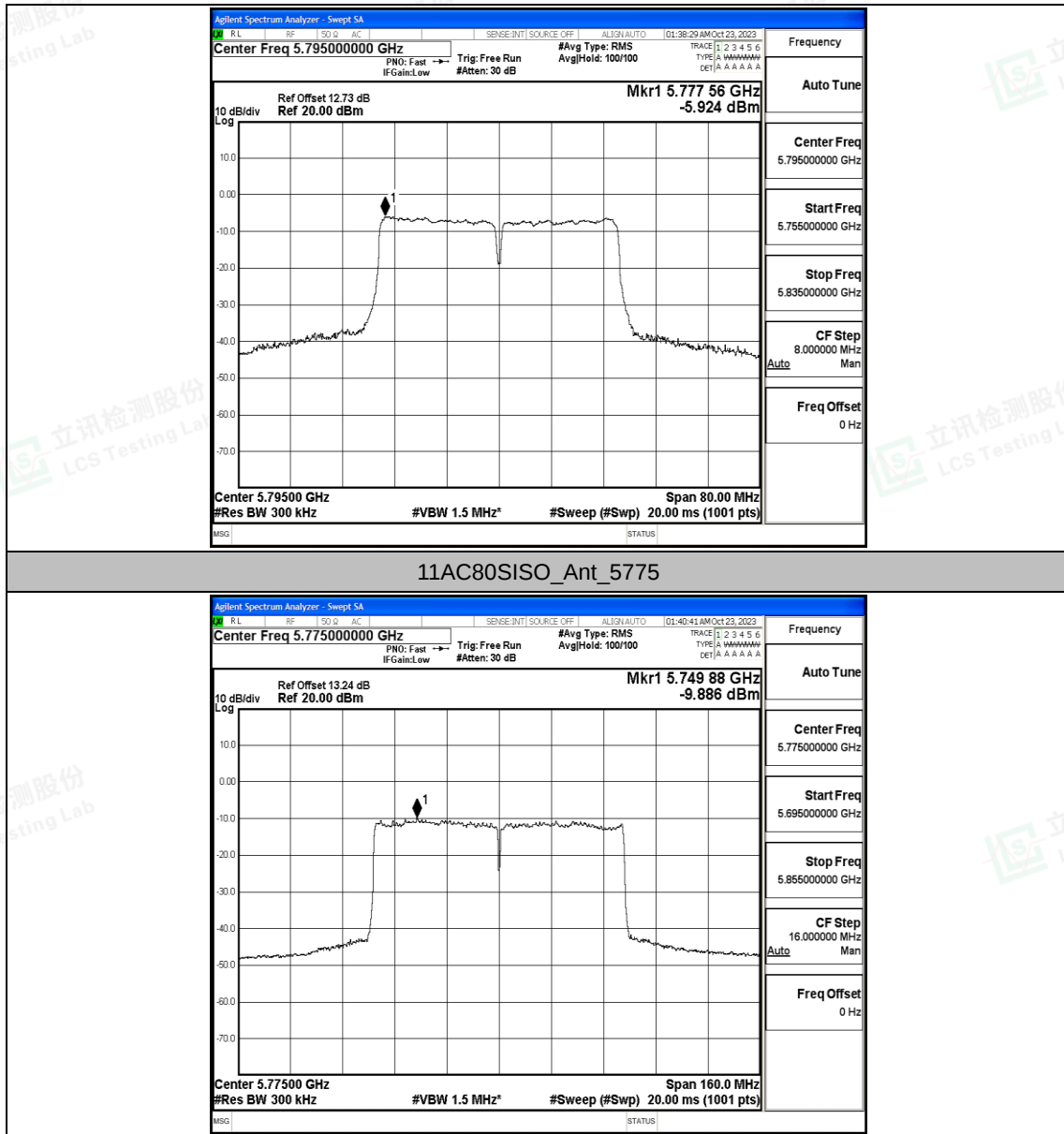


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E.5 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant	Low	5745	Peak	5650.000	-48.125	≤-27.00	---	---	PASS
				Peak	5700.000	-44.86	≤10.00	---	---	PASS
				Peak	5720.000	-33.2	≤15.60	---	---	PASS
				Peak	5725.000	-18.19	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-34.438	≤15.60	---	---	PASS
				Peak	5855.000	-37.61	≤27.00	---	---	PASS
				Peak	5875.000	-46.92	≤15.60	---	---	PASS
				Peak	5925.000	-49.12	≤10.00	---	---	PASS
11N20SIS O	Ant	Low	5745	Peak	5650.000	-49.345	≤-27.00	---	---	PASS
				Peak	5700.000	-46.34	≤10.00	---	---	PASS
				Peak	5720.000	-30.79	≤15.60	---	---	PASS
				Peak	5725.000	-18.6	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-29.959	≤15.60	---	---	PASS
				Peak	5855.000	-36.86	≤27.00	---	---	PASS
				Peak	5875.000	-46.7	≤15.60	---	---	PASS
				Peak	5925.000	-50.27	≤10.00	---	---	PASS
11N40SIS O	Ant	Low	5755	Peak	5650.000	-48.766	≤-27.00	---	---	PASS
				Peak	5700.000	-43.77	≤10.00	---	---	PASS
				Peak	5720.000	-21.88	≤15.60	---	---	PASS
				Peak	5725.000	-24.57	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-41.831	≤15.60	---	---	PASS
				Peak	5855.000	-47.74	≤27.00	---	---	PASS
				Peak	5875.000	-50.04	≤15.60	---	---	PASS
				Peak	5925.000	-48.28	≤10.00	---	---	PASS
11AC20SI SO	Ant	Low	5745	Peak	5650.000	-49.154	≤-27.00	---	---	PASS
				Peak	5700.000	-45.29	≤10.00	---	---	PASS
				Peak	5720.000	-30.64	≤15.60	---	---	PASS
				Peak	5725.000	-25.88	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-33.683	≤15.60	---	---	PASS
				Peak	5855.000	-35.86	≤27.00	---	---	PASS
				Peak	5875.000	-46.77	≤15.60	---	---	PASS
				Peak	5925.000	-50.72	≤10.00	---	---	PASS
11AC40SI SO	Ant	Low	5755	Peak	5650.000	-50.153	≤-27.00	---	---	PASS
				Peak	5700.000	-43.16	≤10.00	---	---	PASS
				Peak	5720.000	-28.86	≤15.60	---	---	PASS



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		High	5795	Peak	5725.000	-25.29	≤27.00	- - -	- - -	PASS
				Peak	5850.000	-42.702	≤15.60	---	---	PASS
				Peak	5855.000	-46.8	≤27.00	---	---	PASS
				Peak	5875.000	-47.51	≤15.60	---	---	PASS
				Peak	5925.000	-48.05	≤10.00	- - -	- - -	PASS
11AC80SI SO	Ant	Low	5775	Peak	5650.000	-48.055	≤-27.00	---	---	PASS
				Peak	5700.000	-38.78	≤10.00	---	---	PASS
				Peak	5720.000	-29.71	≤15.60	---	---	PASS
				Peak	5725.000	-32.88	≤27.00	- - -	- - -	PASS
		High	5775	Peak	5850.000	-37.988	≤15.60	---	---	PASS
				Peak	5855.000	-36.6	≤27.00	---	---	PASS
				Peak	5875.000	-44.98	≤15.60	---	---	PASS
				Peak	5925.000	-49.51	≤10.00	- - -	- - -	PASS

Note:

1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

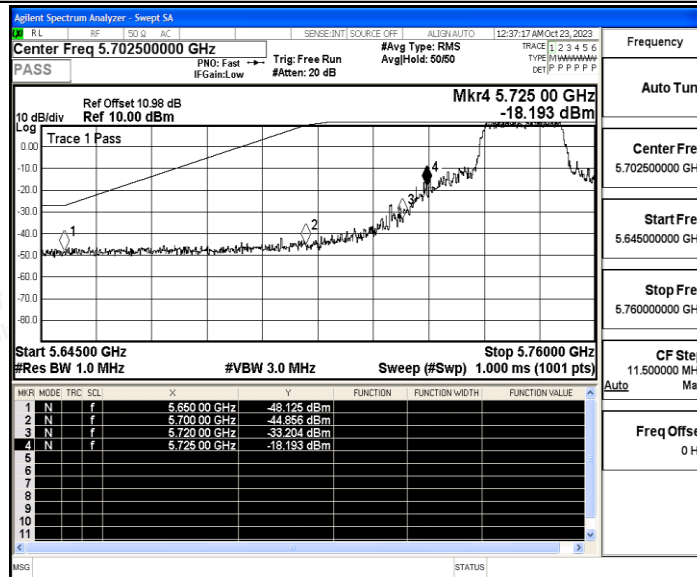


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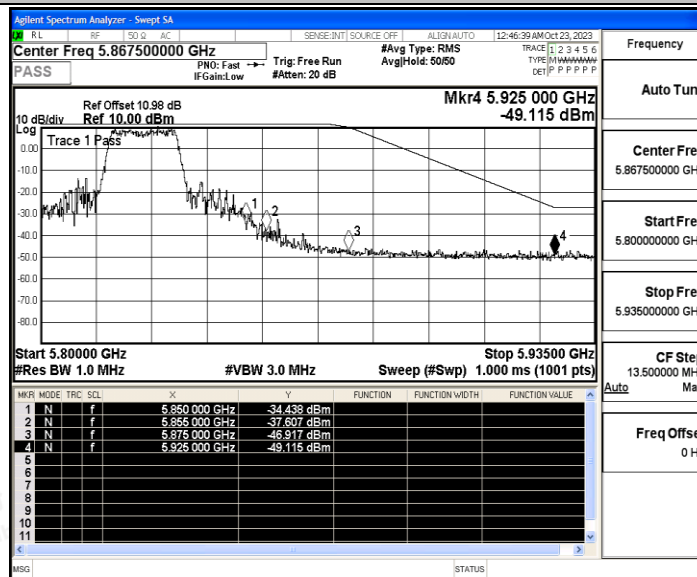


Test Graphs

11A_Ant_Low_5745_Peak



11A_Ant_High_5825_Peak



11N20SISO_Ant_Low_5745_Peak

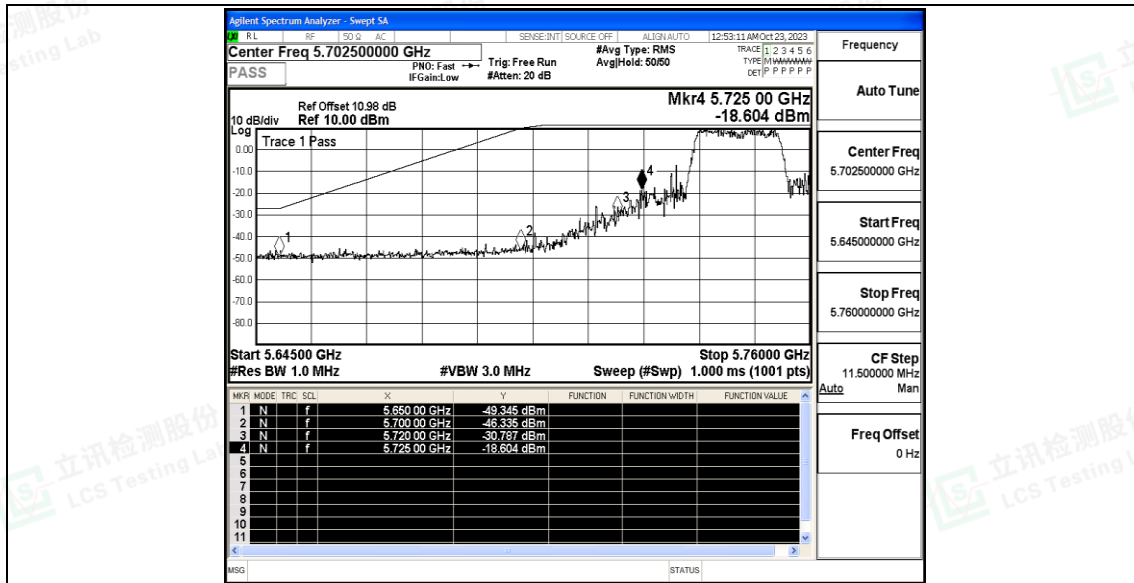


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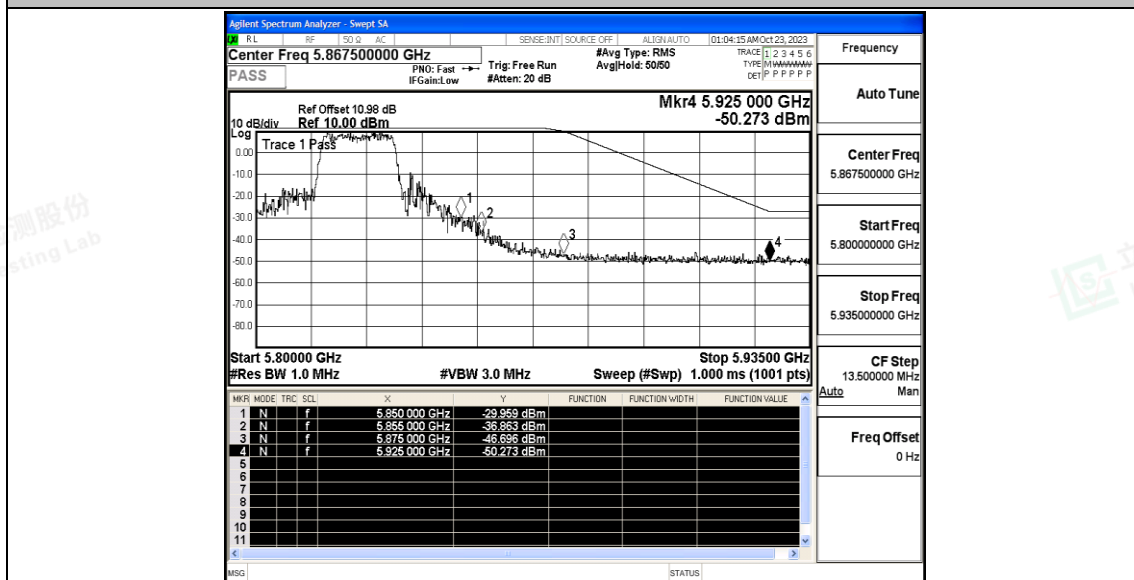
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11N20SISO_Ant_High_5825_Peak



11N40SISO_Ant_Low_5755_Peak

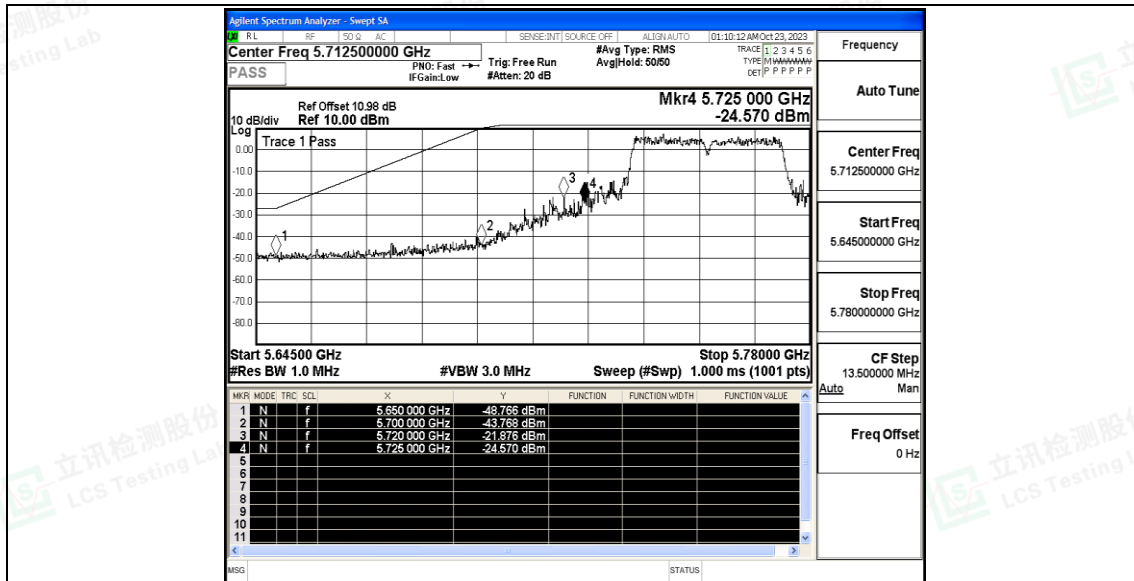


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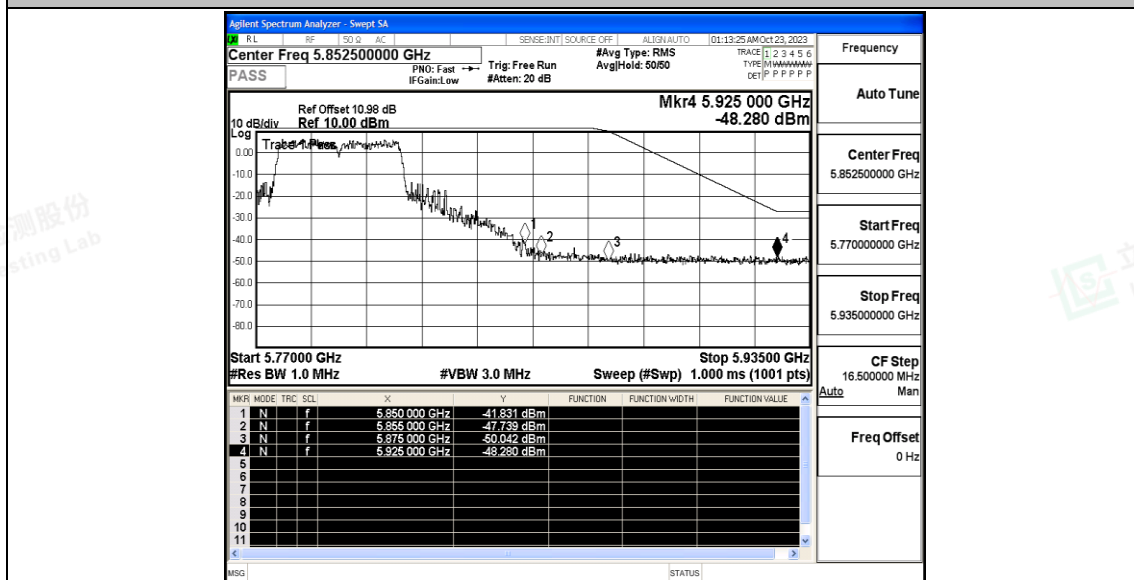
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11N40SISO_Ant_High_5795_Peak



11AC20SISO_Ant_Low_5745_Peak

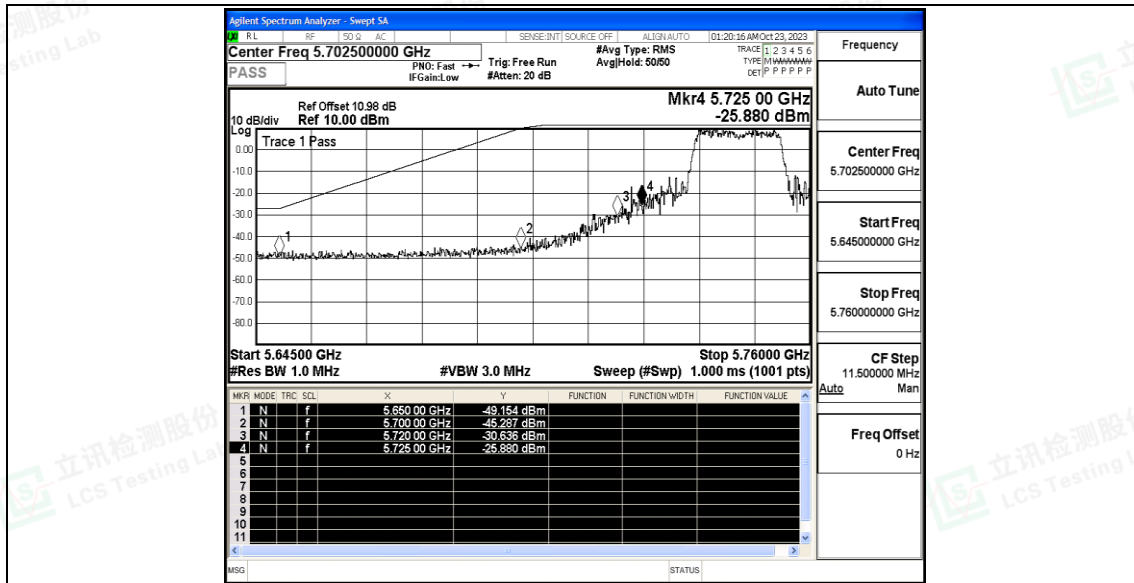


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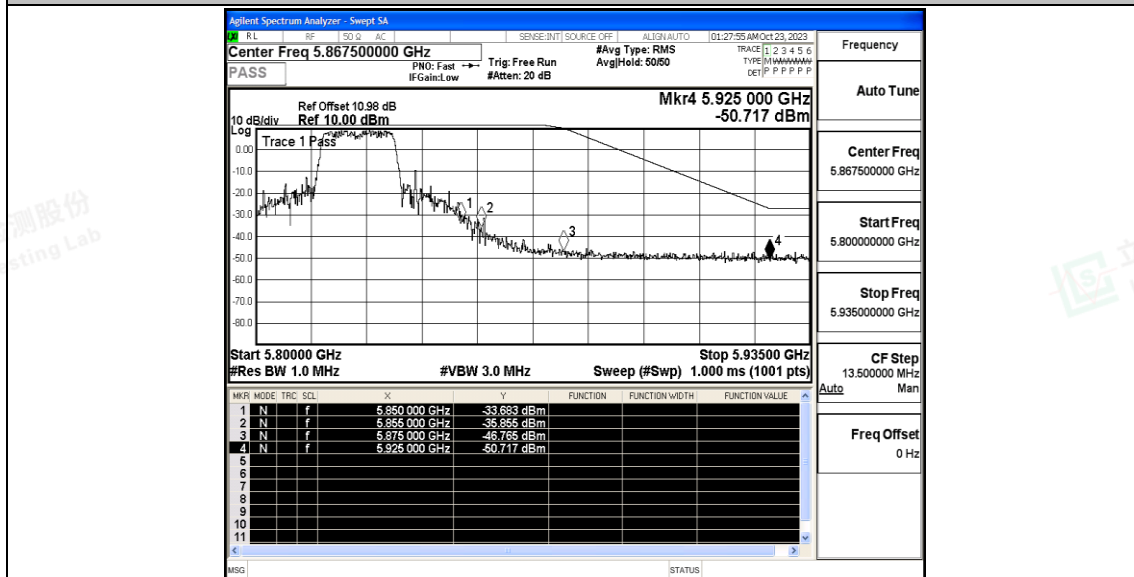
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11AC20ISO_Ant_High_5825_Peak



11AC40ISO_Ant_Low_5755_Peak

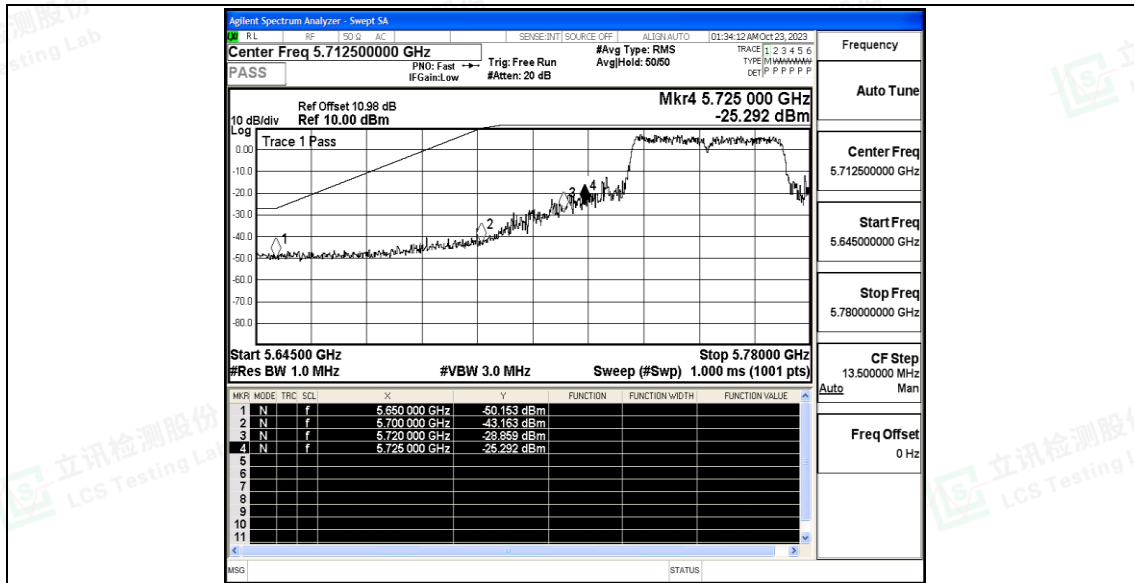


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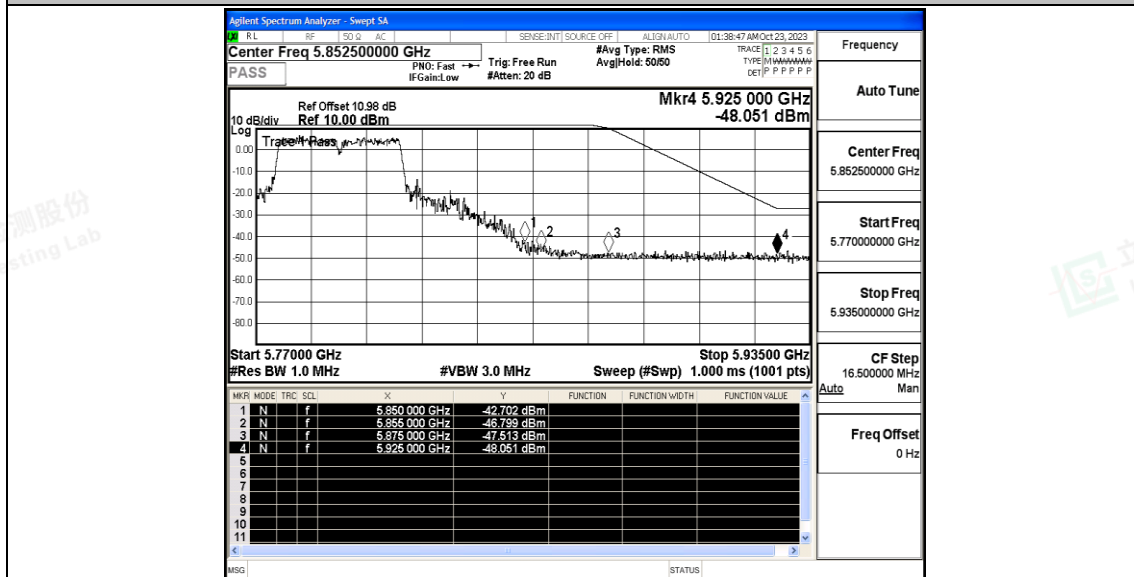
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11AC40SISO_Ant_High_5795_Peak



11AC80SISO_Ant_Low_5775_Peak

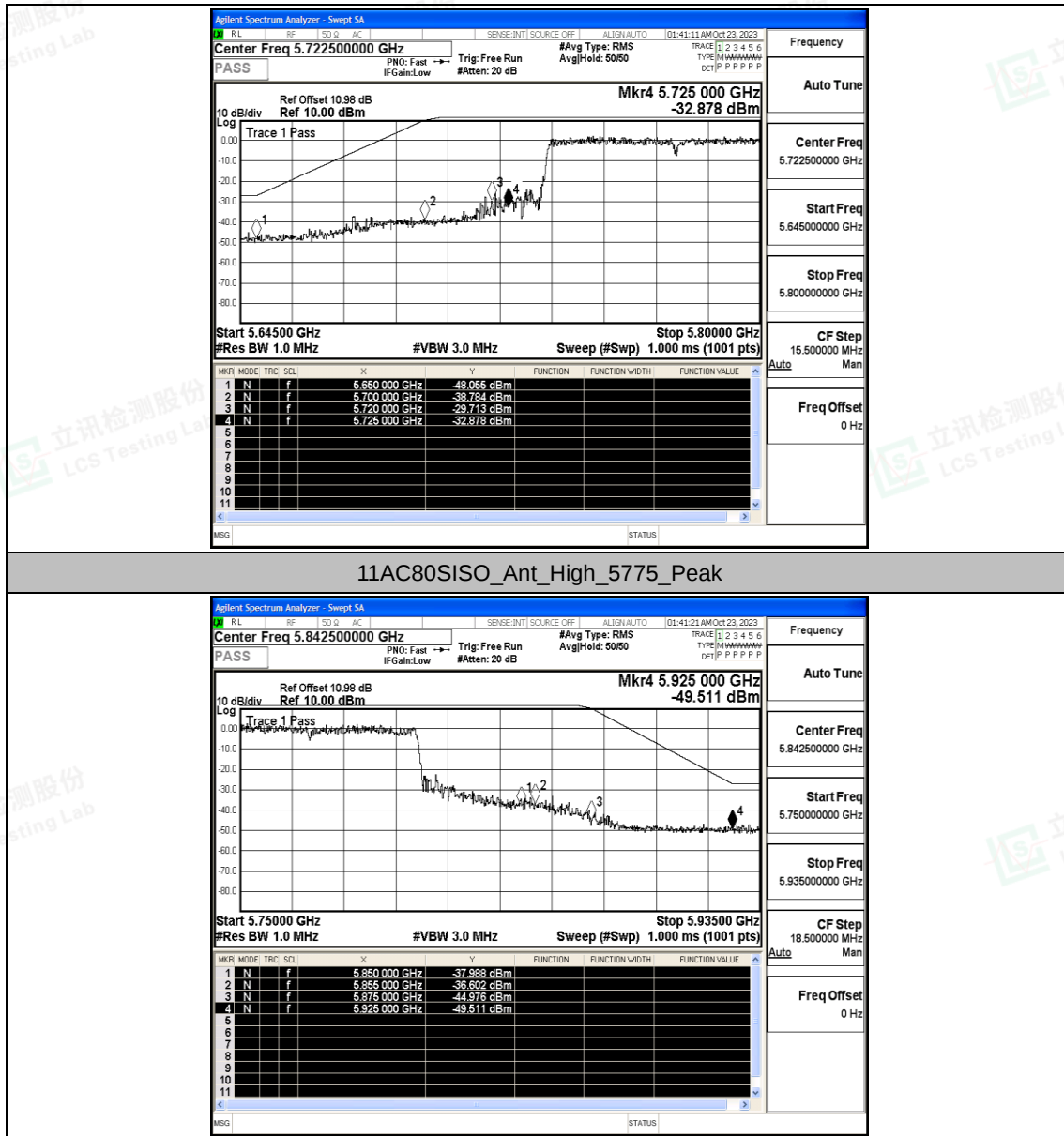


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E.6 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11N20SI SO	Ant	5745	NV	NT	-60000.00	-10.443864	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.481288	20	PASS
		5785	NV	NT	-40000.00	-6.914434	20	PASS
			LV	NT	-40000.00	-6.914434	20	PASS
			HV	NT	-20000.00	-3.457217	20	PASS
		5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.433476	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11N40SI SO	Ant	5755	NV	NT	-40000.00	-6.950478	20	PASS
			LV	NT	-40000.00	-6.950478	20	PASS
			HV	NT	-40000.00	-6.950478	20	PASS
		5795	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-6.902502	20	PASS
11AC80S ISO	Ant	5775	NV	NT	-80000.00	-13.852814	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-80000.00	-13.852814	20	PASS

Temperature								
TestMode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11N20SI SO	Ant	5745	NV	-30	-20000.00	-3.481288	20	PASS
			NV	-20	-40000.00	-6.962576	20	PASS
			NV	-10	-40000.00	-6.962576	20	PASS
			NV	0	-20000.00	-3.481288	20	PASS
			NV	10	-20000.00	-3.481288	20	PASS
			NV	20	-20000.00	-3.481288	20	PASS
			NV	30	-40000.00	-6.962576	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.481288	20	PASS
		5785	NV	-30	-20000.00	-3.457217	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS



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			NV	0	-20000.00	-3.457217	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.457217	20	PASS
		5825	NV	-30	-20000.00	-3.433476	20	PASS
			NV	-20	-20000.00	-3.433476	20	PASS
			NV	-10	-20000.00	-3.433476	20	PASS
			NV	0	-20000.00	-3.433476	20	PASS
			NV	10	-20000.00	-3.433476	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-40000.00	-6.866953	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-40000.00	-6.866953	20	PASS
11N40SI SO	Ant	5755	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-40000.00	-6.950478	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5795	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-80000.00	-13.805004	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-40000.00	-6.902502	20	PASS
			NV	30	-40000.00	-6.902502	20	PASS
			NV	40	-40000.00	-6.902502	20	PASS
			NV	50	-40000.00	-6.902502	20	PASS
11AC80S ISO	Ant	5775	NV	-30	-80000.00	-13.852814	20	PASS
			NV	-20	-80000.00	-13.852814	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-80000.00	-13.852814	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS



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			NV	40	0.00	0.000000	20	PASS
			NV	50	-80000.00	-13.852814	20	PASS





E.7 Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant	5745	1.40	1.59	88.05
		5785	1.39	1.57	88.54
		5825	1.39	1.57	88.54
11N20SISO	Ant	5745	1.18	1.37	86.13
		5785	1.17	1.35	86.67
		5825	1.18	1.45	81.38
11N40SISO	Ant	5755	0.59	0.84	70.24
		5795	0.59	0.78	75.64
11AC20SISO	Ant	5745	1.18	1.44	81.94
		5785	1.19	1.46	81.51
		5825	1.19	1.37	86.86
11AC40SISO	Ant	5755	0.59	0.78	75.64
		5795	0.59	0.84	70.24
11AC80SISO	Ant	5775	0.30	0.48	62.50



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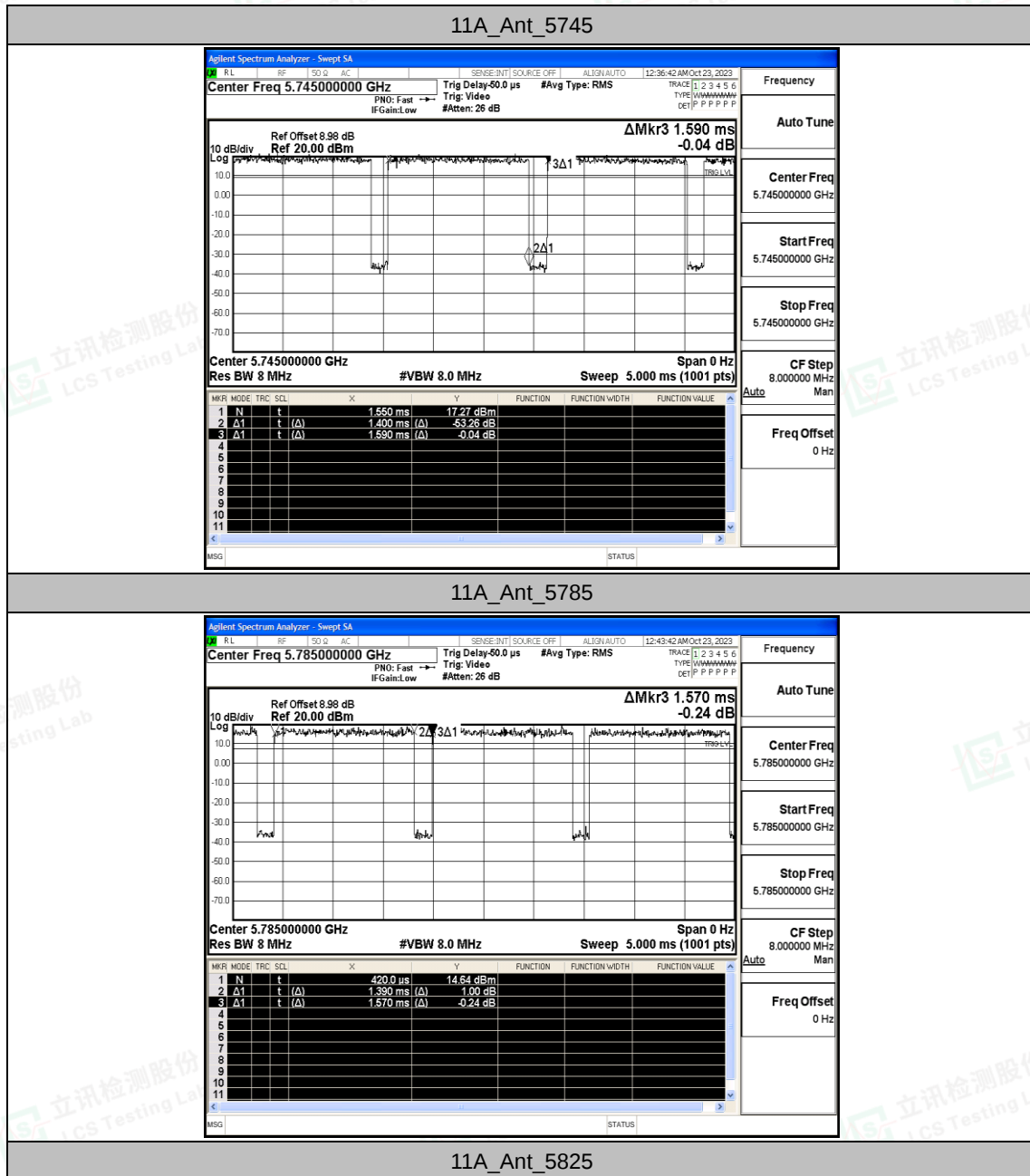
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Test Graphs

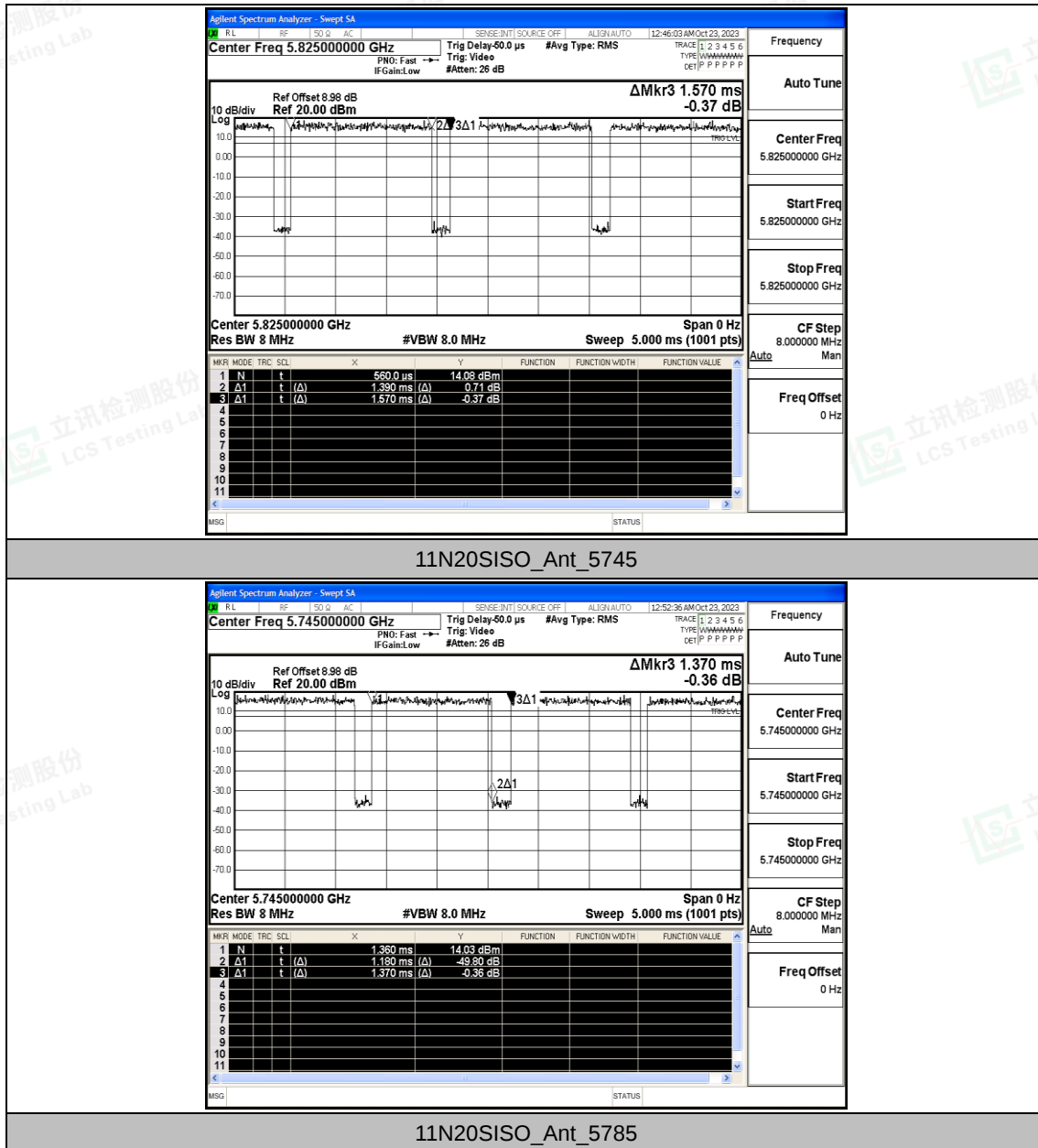


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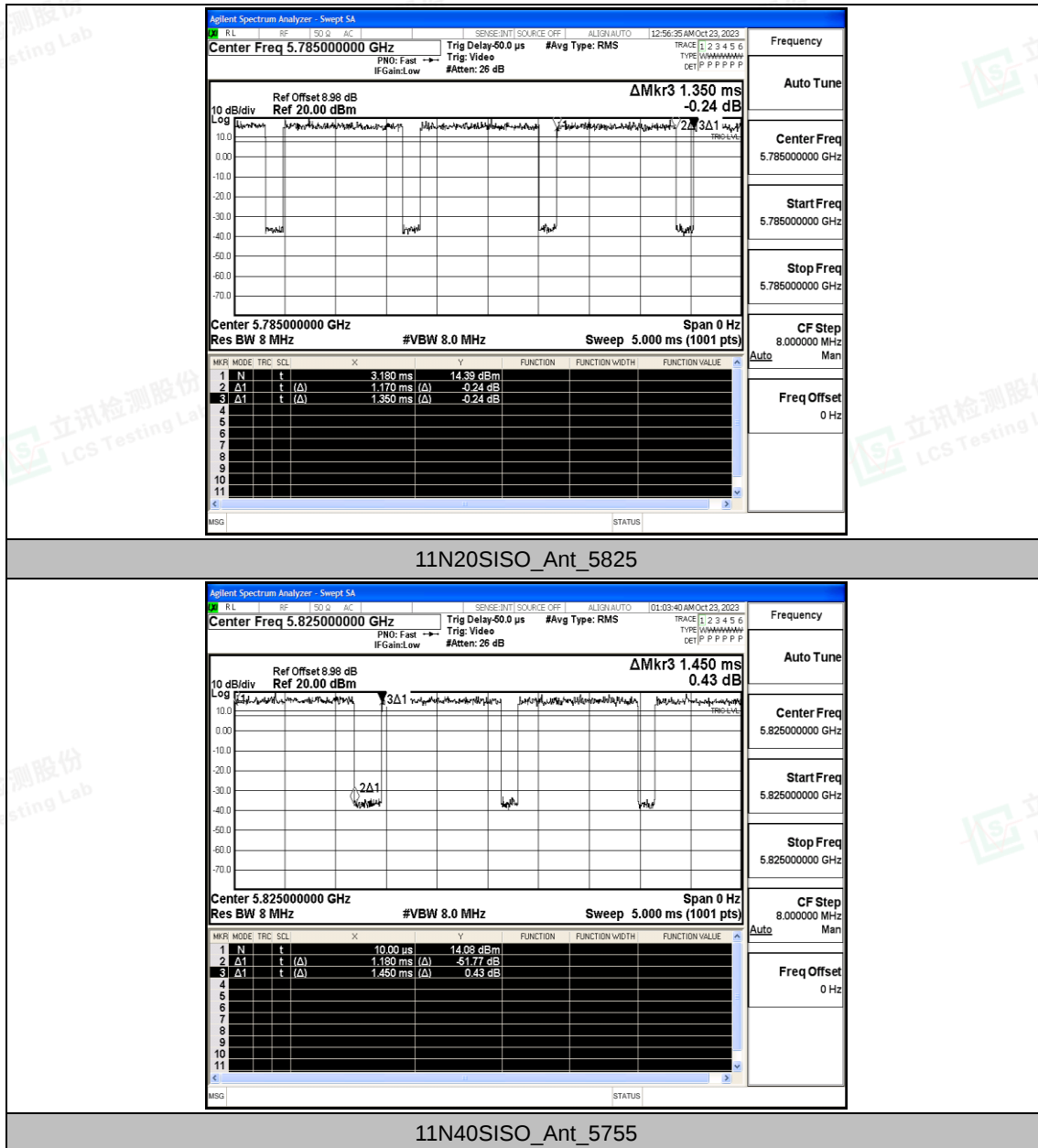


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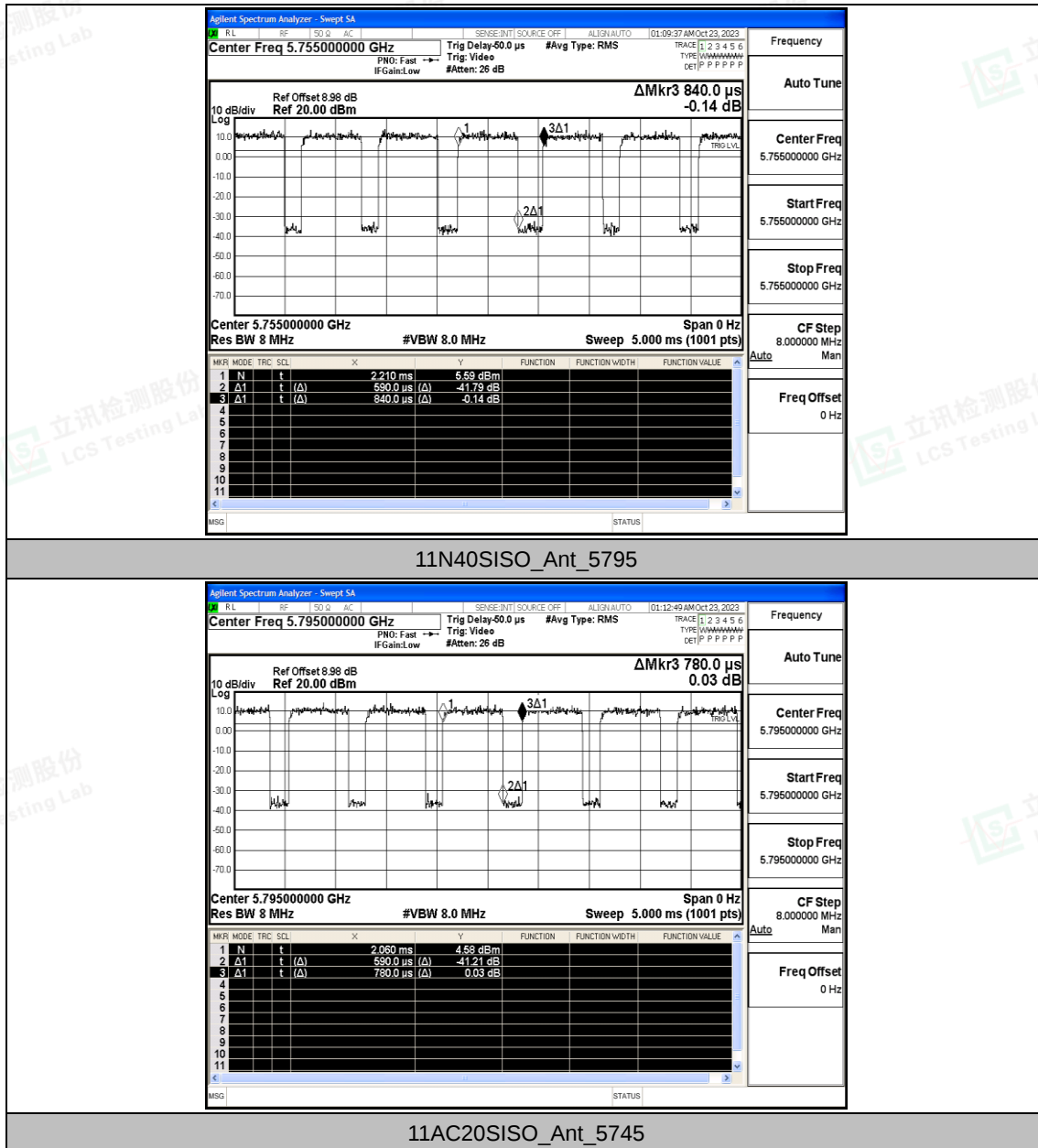


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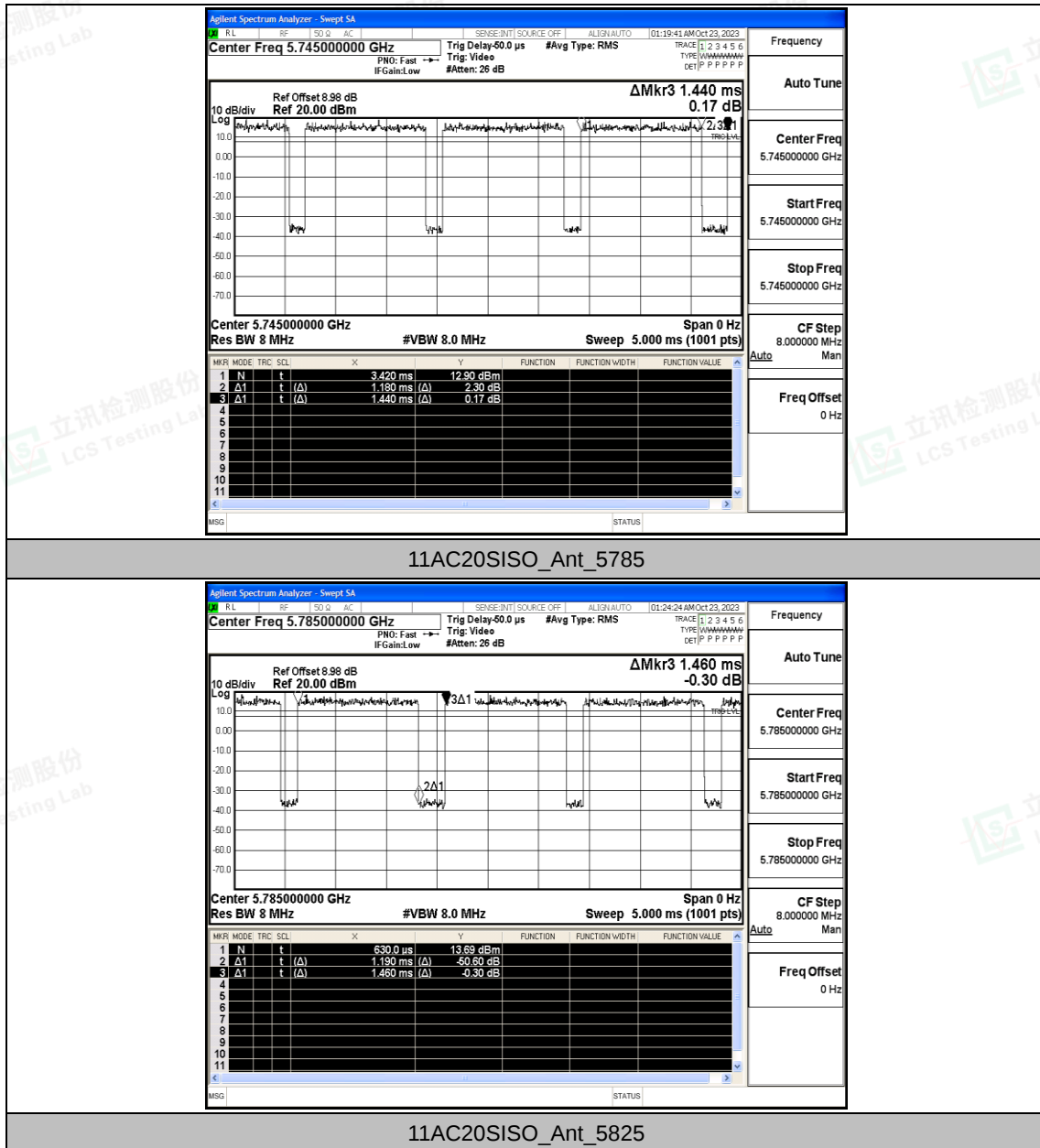


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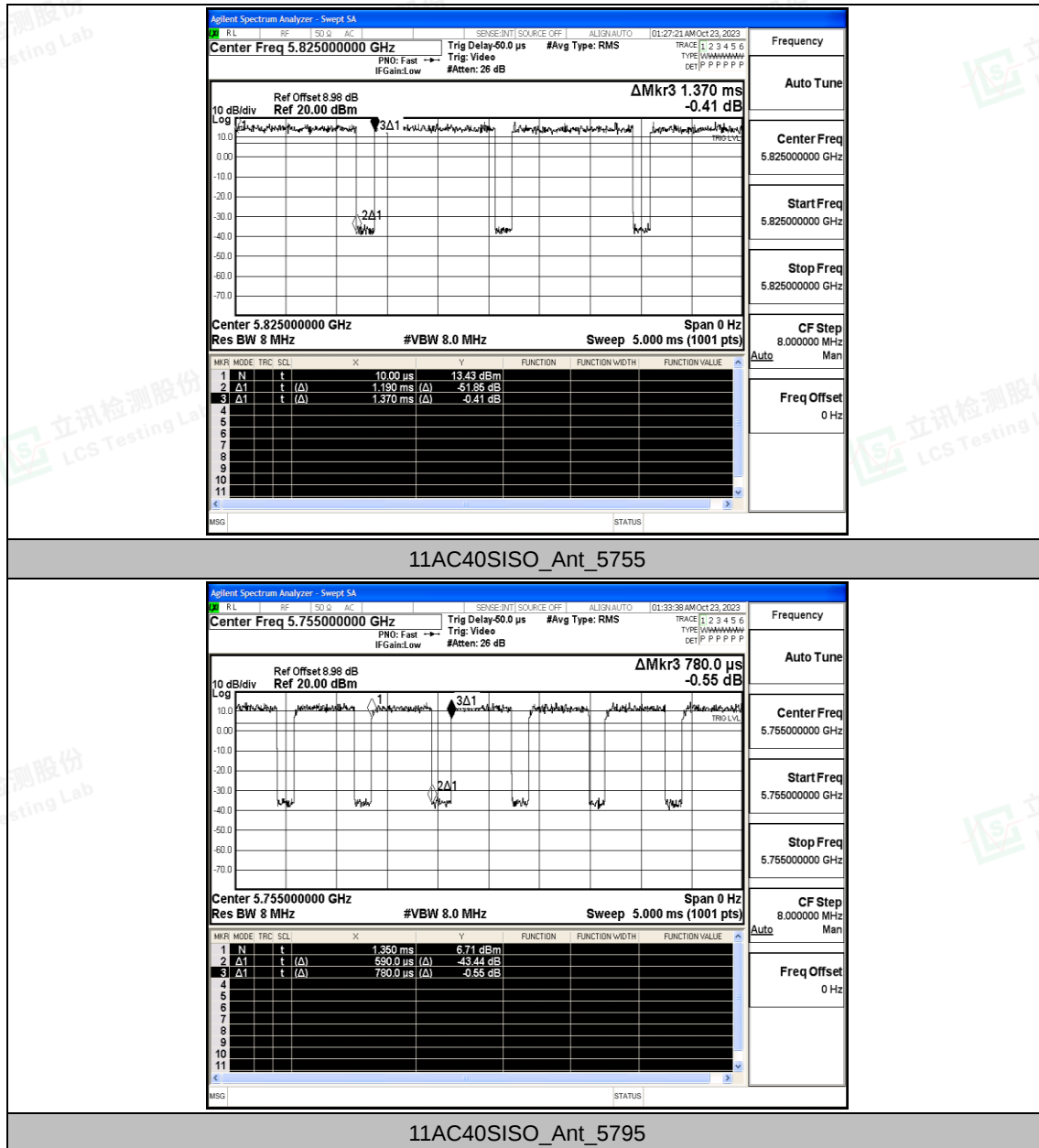


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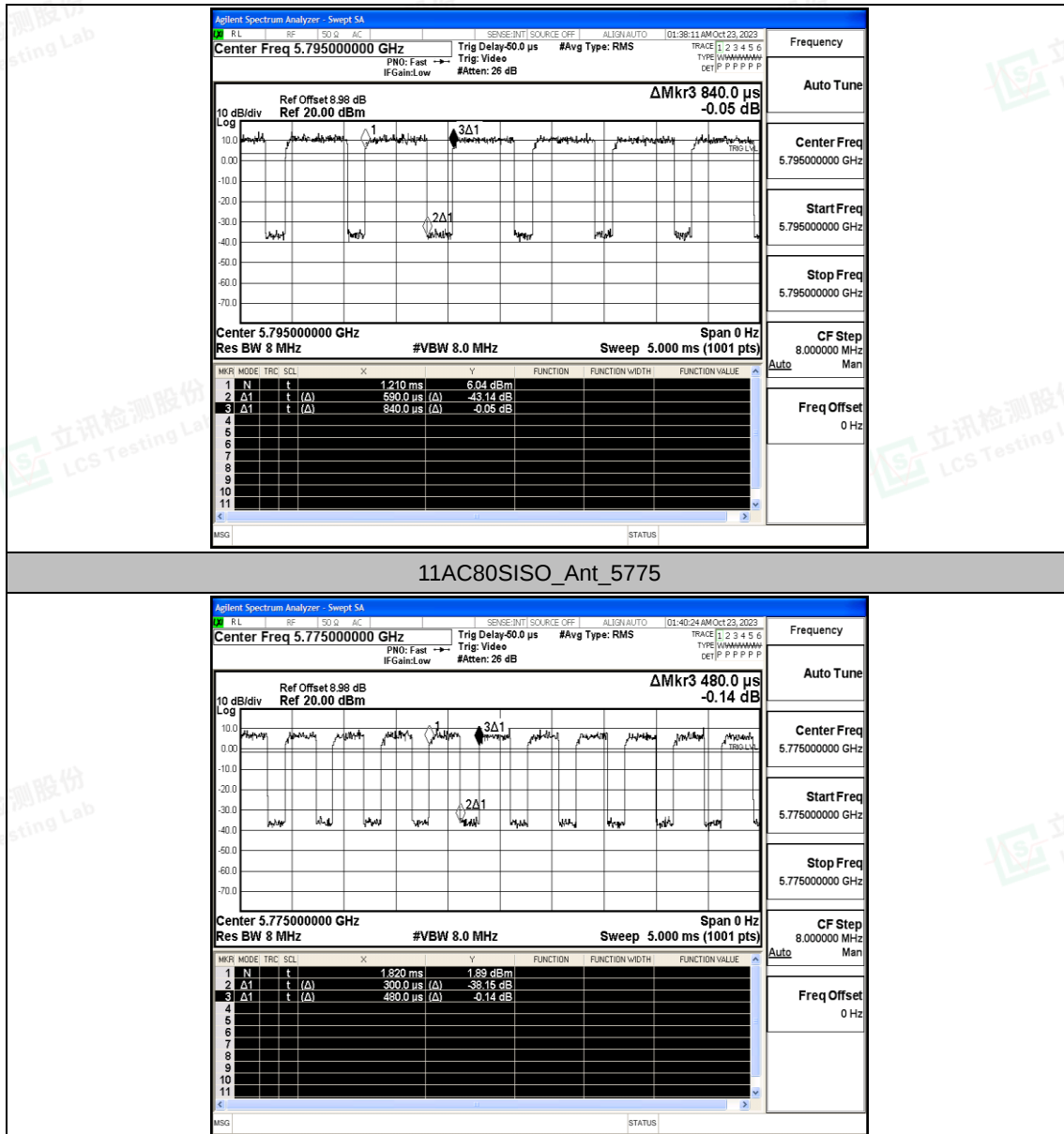


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