



Appendix E

RF Test Data for 5.8G WIFI (Conducted Measurement)

Product Name: Smart TV Box

Test Model: T95MAX

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu Taylor Hu
Supervised by:	Li Huan Li Huan





E.1 Min emission bandwidth

Test Result

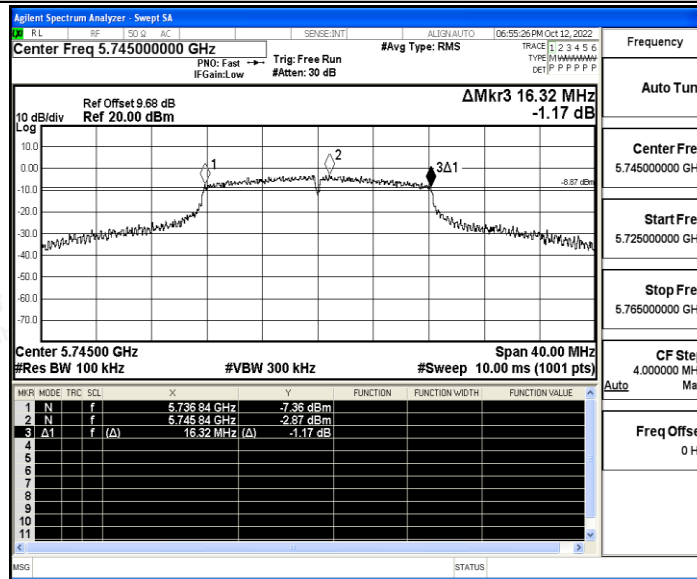
TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant	5745	16.320	5736.840	5753.160	0.5	PASS
		5785	16.320	5776.840	5793.160	0.5	PASS
		5825	16.360	5816.800	5833.160	0.5	PASS
11N20SISO	Ant	5745	17.560	5736.200	5753.760	0.5	PASS
		5785	17.560	5776.200	5793.760	0.5	PASS
		5825	17.600	5816.200	5833.800	0.5	PASS
11N40SISO	Ant	5755	36.080	5736.840	5772.920	0.5	PASS
		5795	36.320	5776.840	5813.160	0.5	PASS
11AC20SISO	Ant	5745	17.560	5736.200	5753.760	0.5	PASS
		5785	17.560	5776.200	5793.760	0.5	PASS
		5825	17.560	5816.200	5833.760	0.5	PASS
11AC40SISO	Ant	5755	36.000	5736.840	5772.840	0.5	PASS
		5795	36.080	5776.840	5812.920	0.5	PASS
11AC80SISO	Ant	5775	75.200	5736.760	5811.960	0.5	PASS



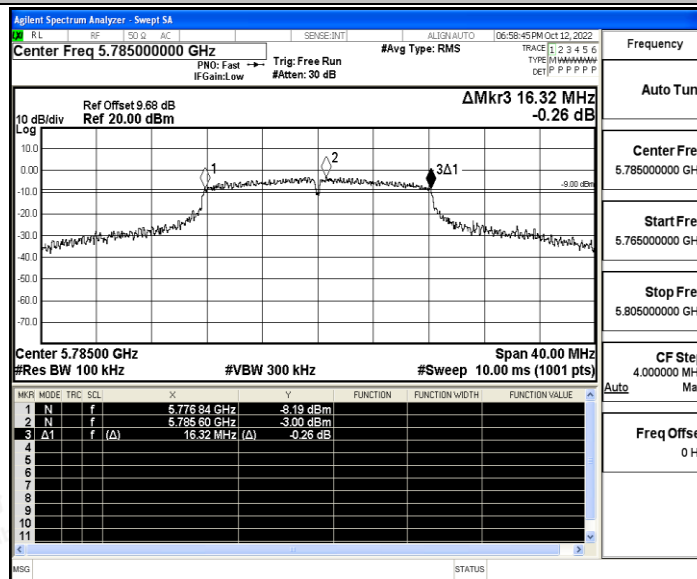


Test Graphs

11A_Ant_5745

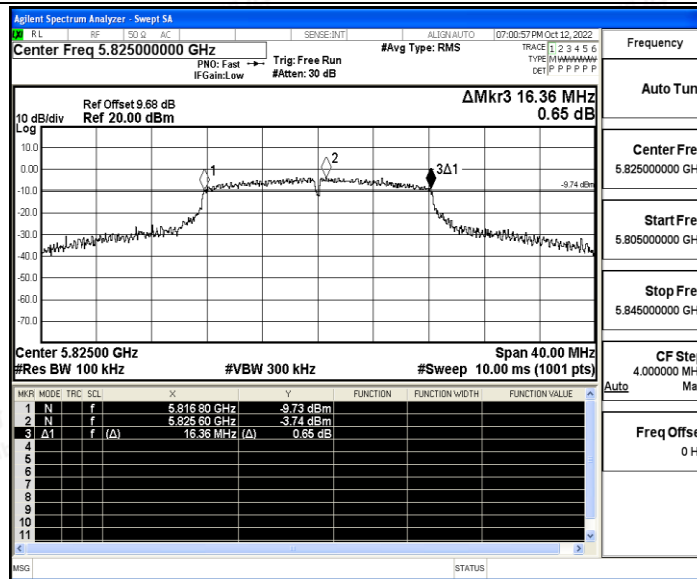


11A_Ant_5785

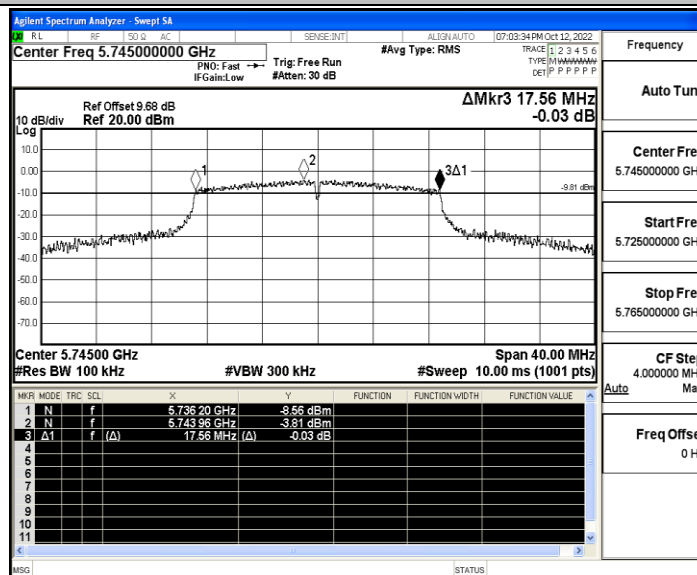


11A_Ant_5825



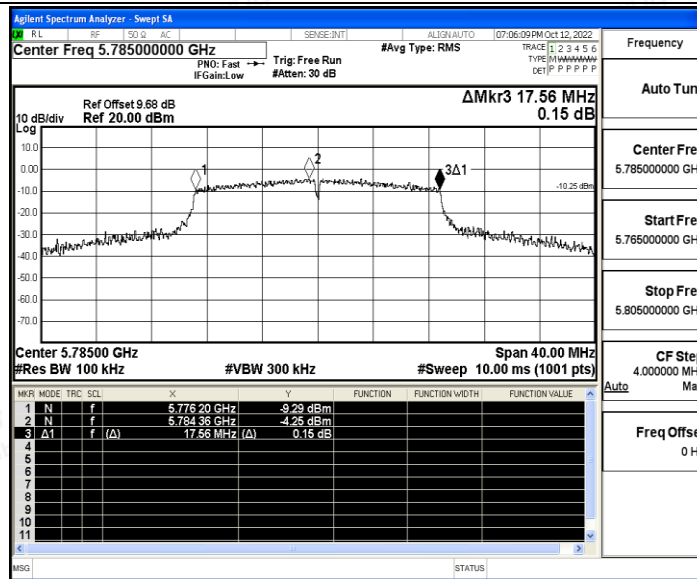


11N20SISO_Ant_5745

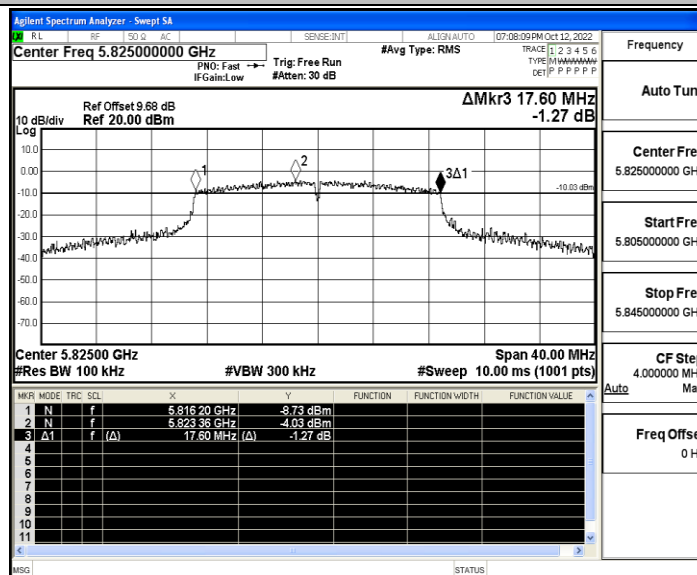


11N20SISO_Ant_5785



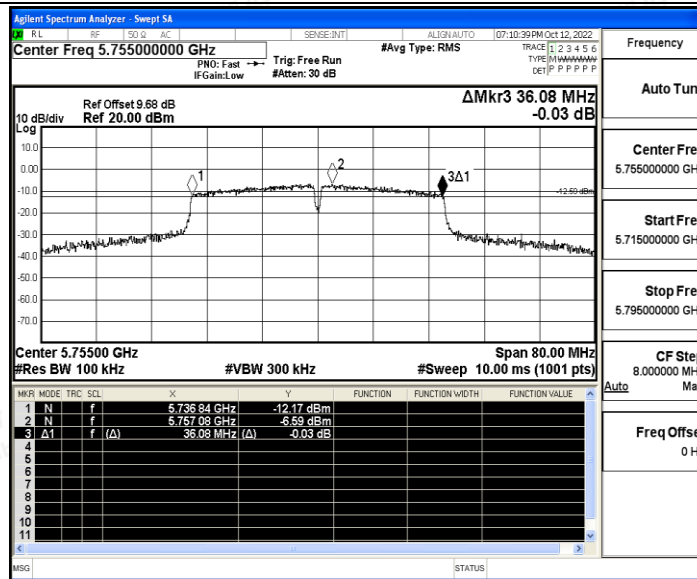


11N20ISO_Ant_5825

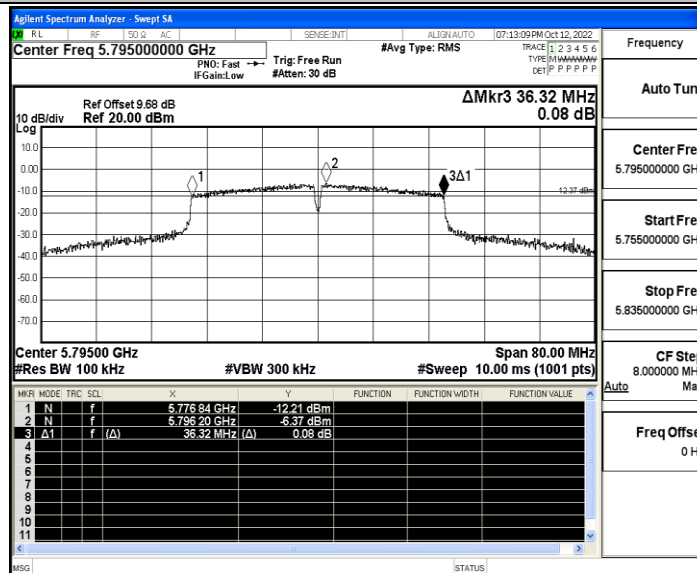


11N40ISO_Ant_5755



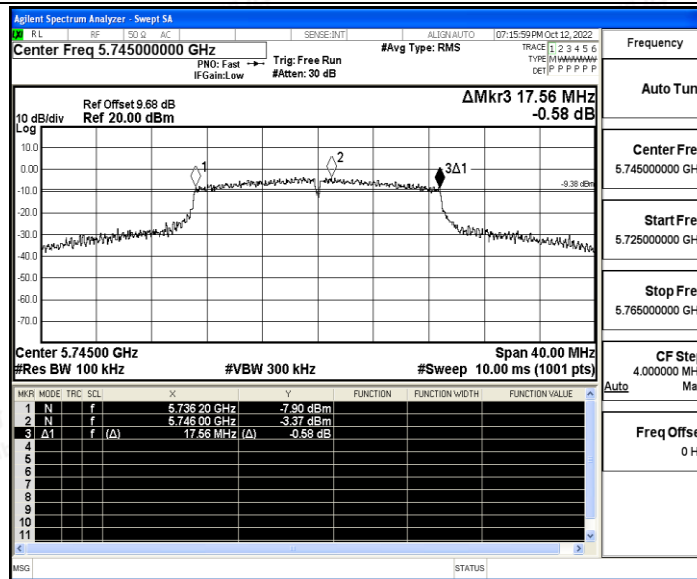


11N40SISO_Ant_5795

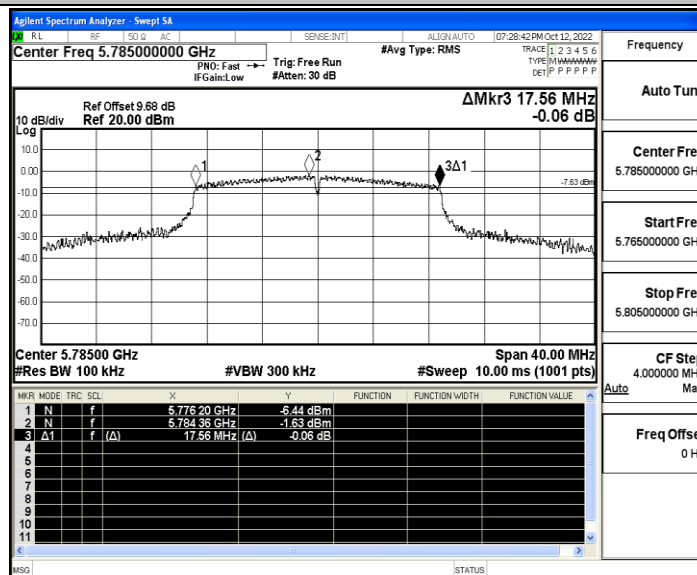


11AC20SISO_Ant_5745



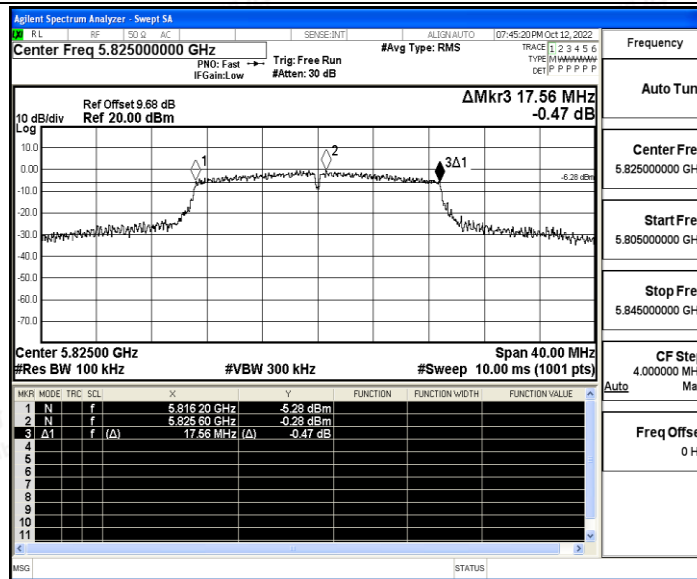


11AC20SISO_Ant_5785

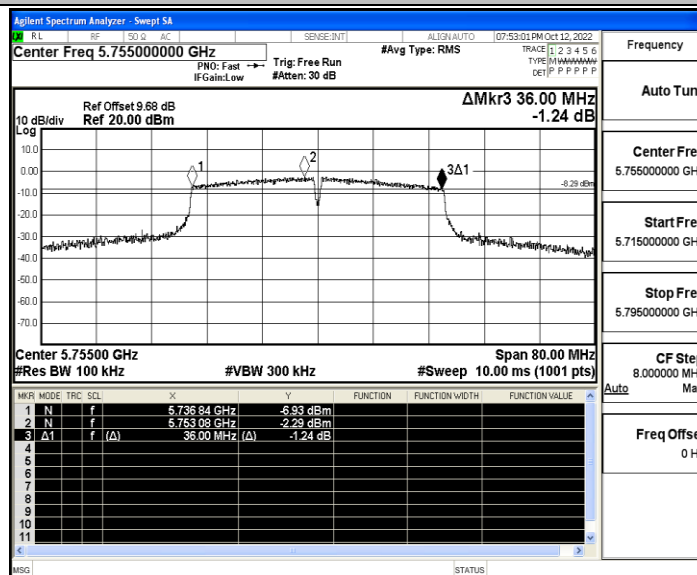


11AC20SISO_Ant_5825





11AC40SISO_Ant_5755



11AC40SISO_Ant_5795







E.2 Occupied channel bandwidth

Test Result

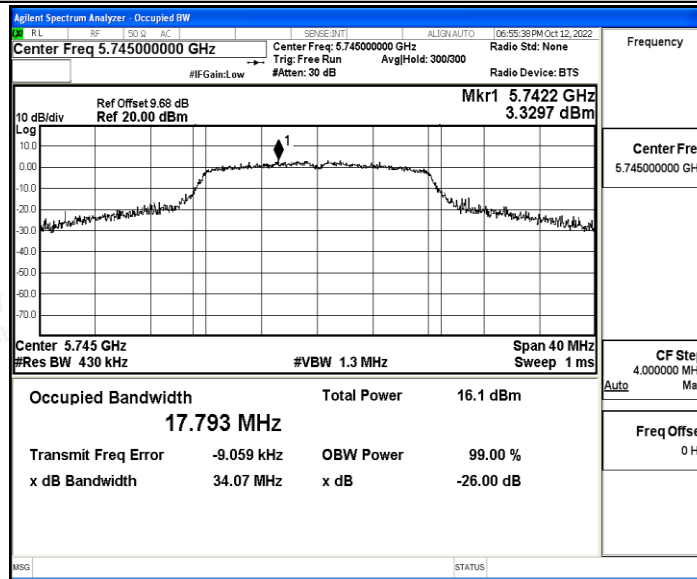
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant	5745	17.793	5736.0944	5753.8874	---	---
		5785	17.653	5776.1981	5793.8511	---	---
		5825	17.347	5816.3163	5833.6633	---	---
11N20SISO	Ant	5745	18.241	5735.8472	5754.0882	---	---
		5785	18.151	5775.9377	5794.0887	---	---
		5825	18.248	5815.8586	5834.1066	---	---
11N40SISO	Ant	5755	36.786	5736.5717	5773.3577	---	---
		5795	36.801	5776.6267	5813.4277	---	---
11AC20SISO	Ant	5745	18.282	5735.8232	5754.1052	---	---
		5785	18.072	5775.8934	5793.9654	---	---
		5825	18.180	5815.8610	5834.0410	---	---
11AC40SISO	Ant	5755	36.432	5736.7141	5773.1461	---	---
		5795	36.041	5776.9514	5812.9924	---	---
11AC80SISO	Ant	5775	75.406	5737.1346	5812.5406	---	---



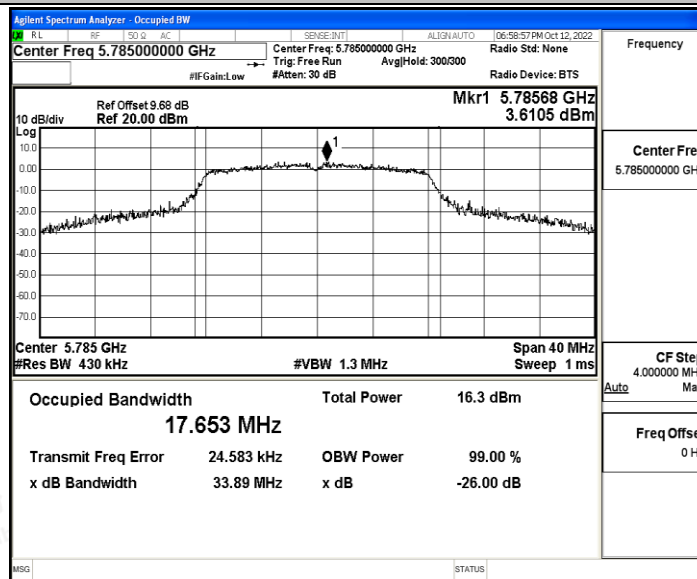


Test Graphs

11A_Ant_5745

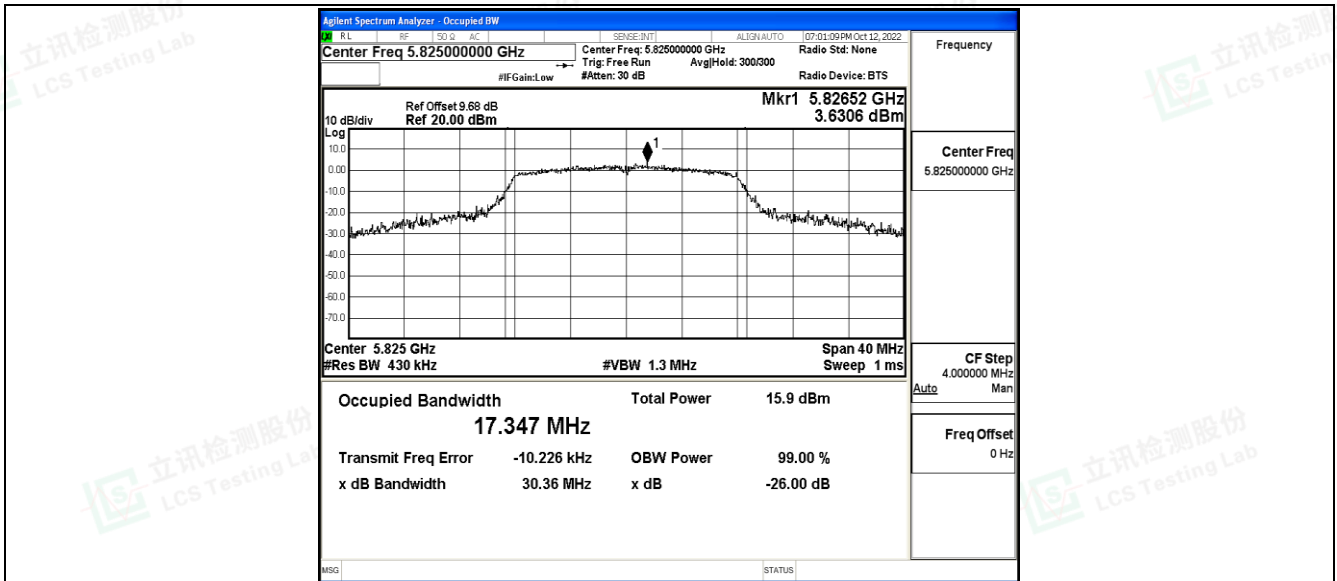


11A_Ant_5785

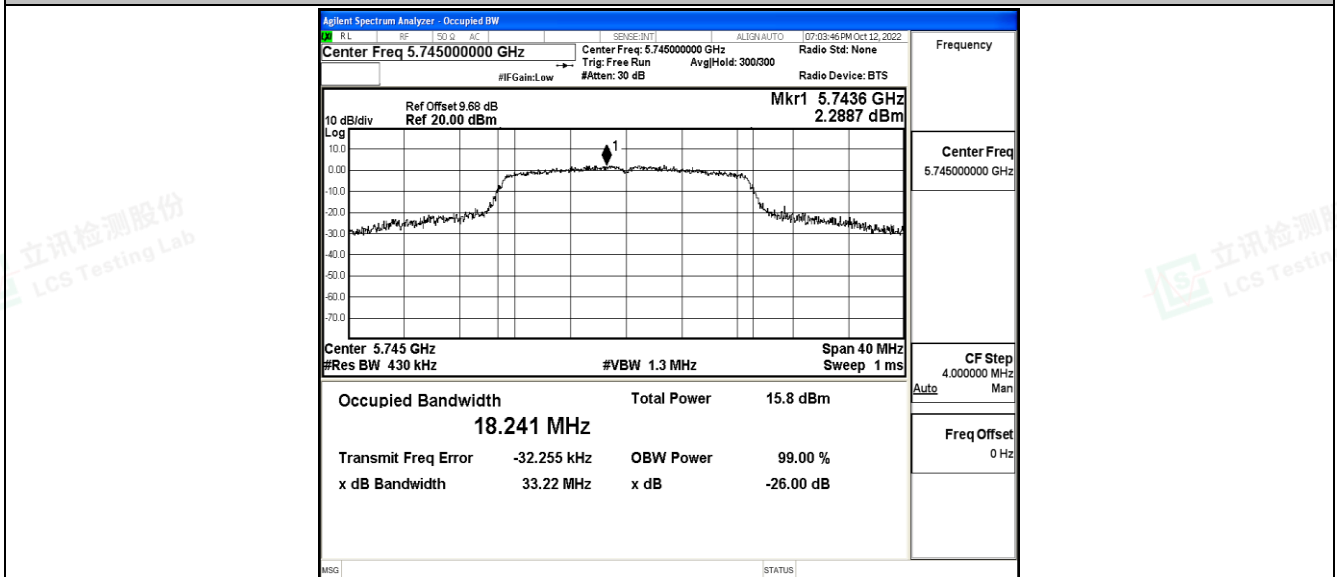


11A_Ant_5825



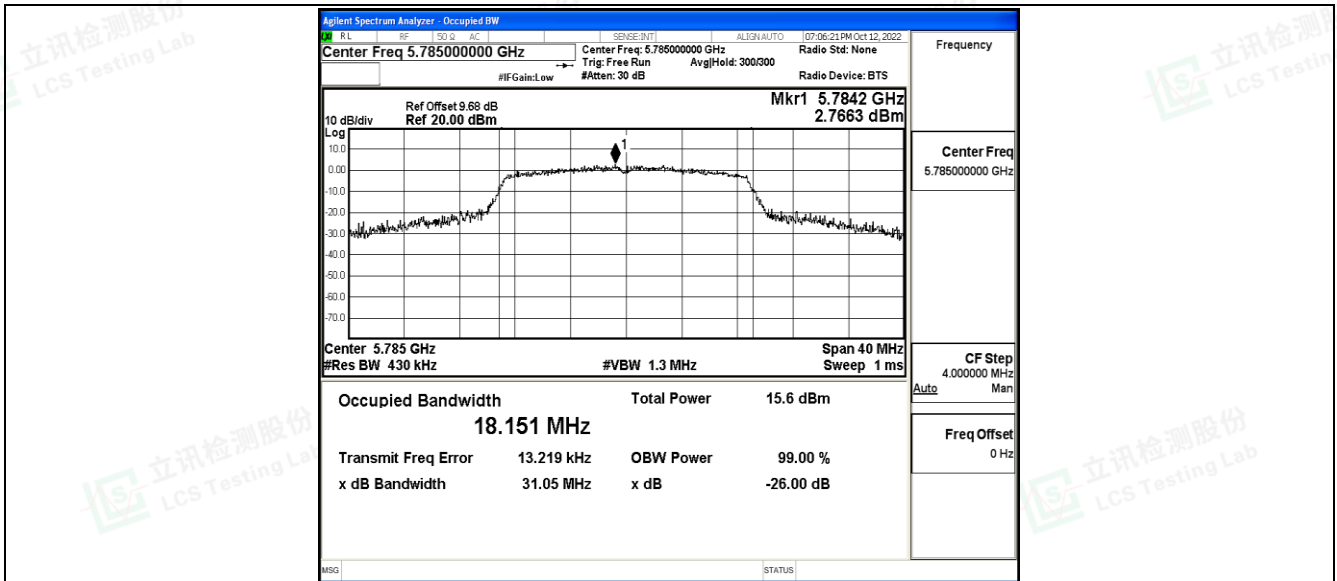


11N20SISO_Ant_5745

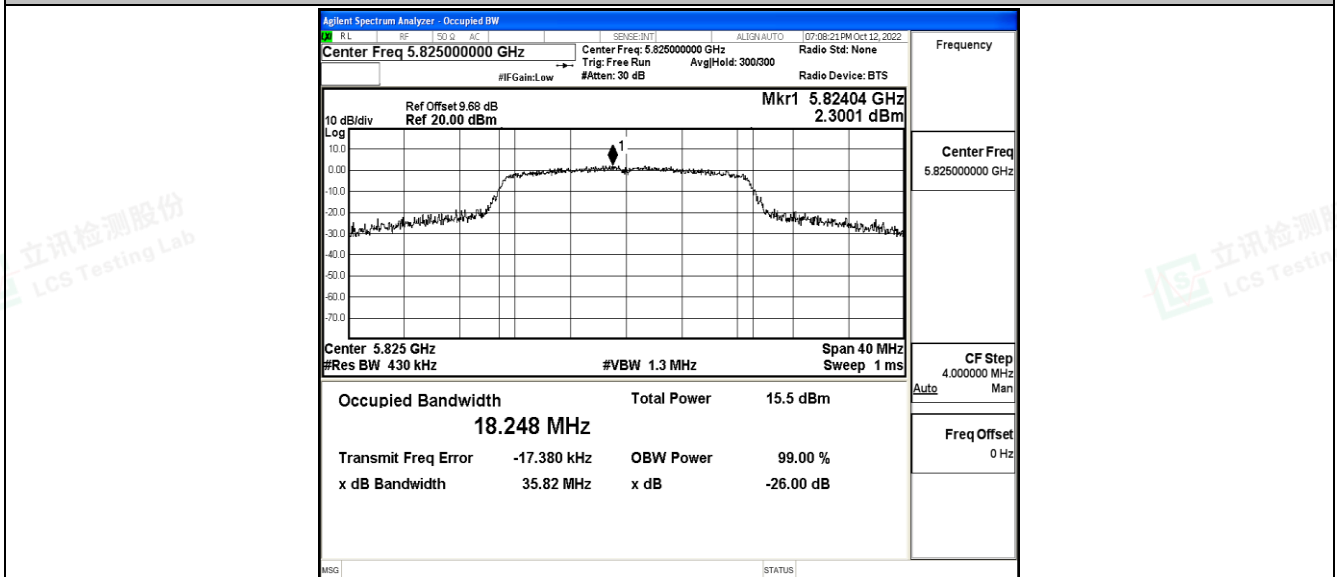


11N20SISO_Ant_5785



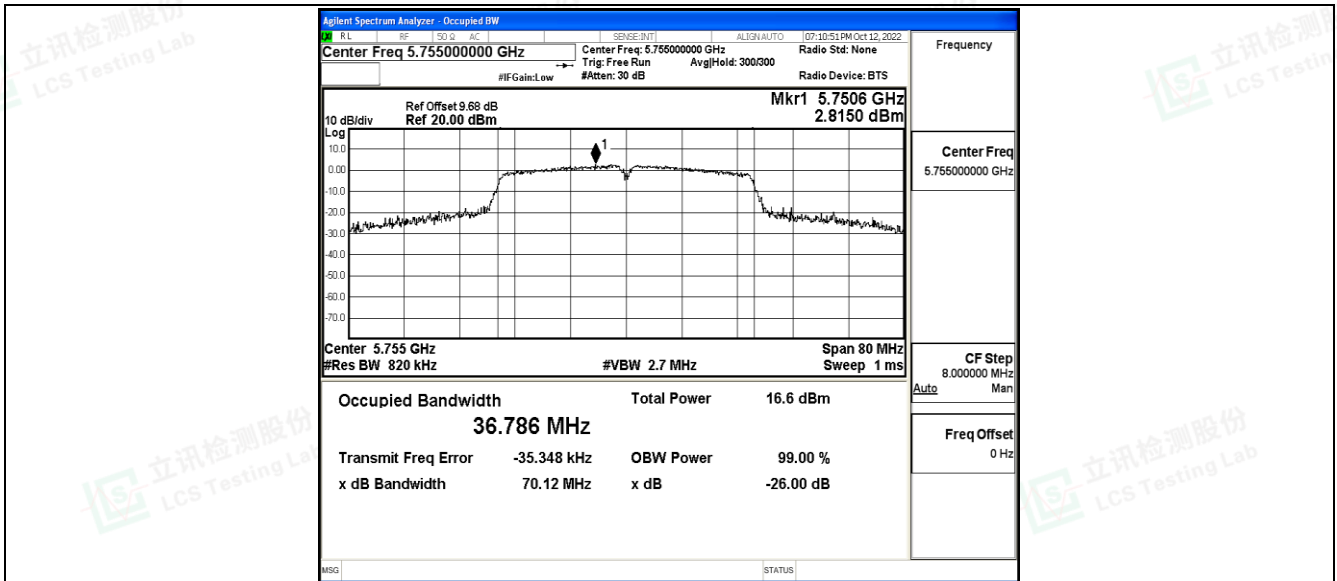


11N20ISO_Ant_5825

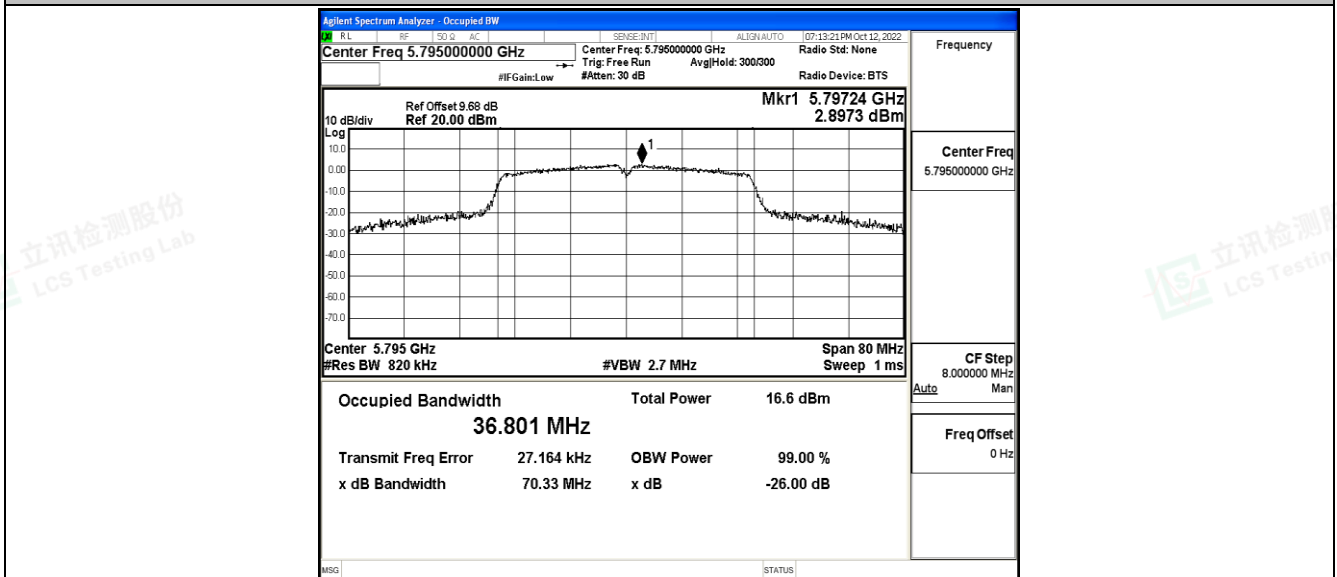


11N40ISO_Ant_5755



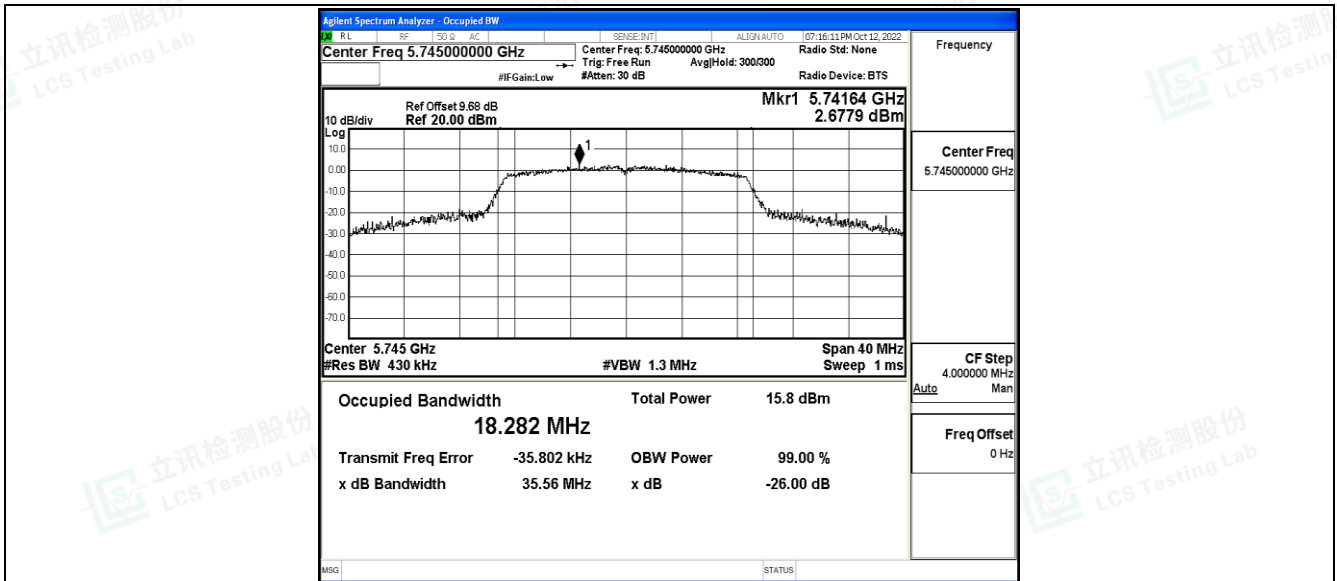


11N40SISO_Ant_5795

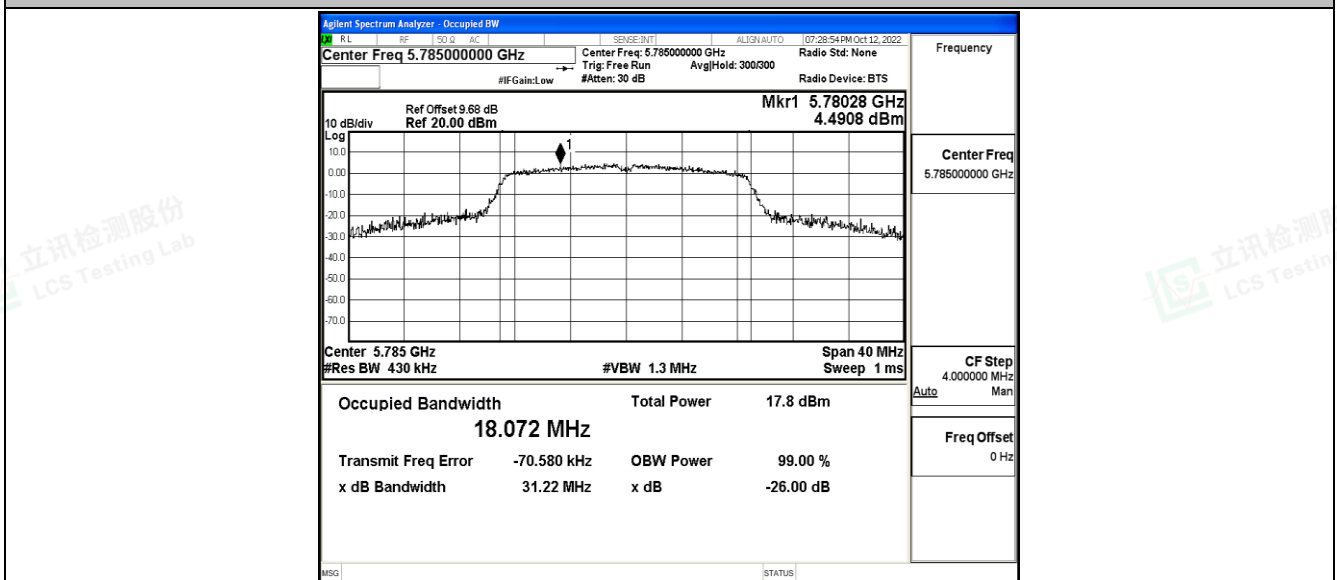


11AC20SISO_Ant_5745



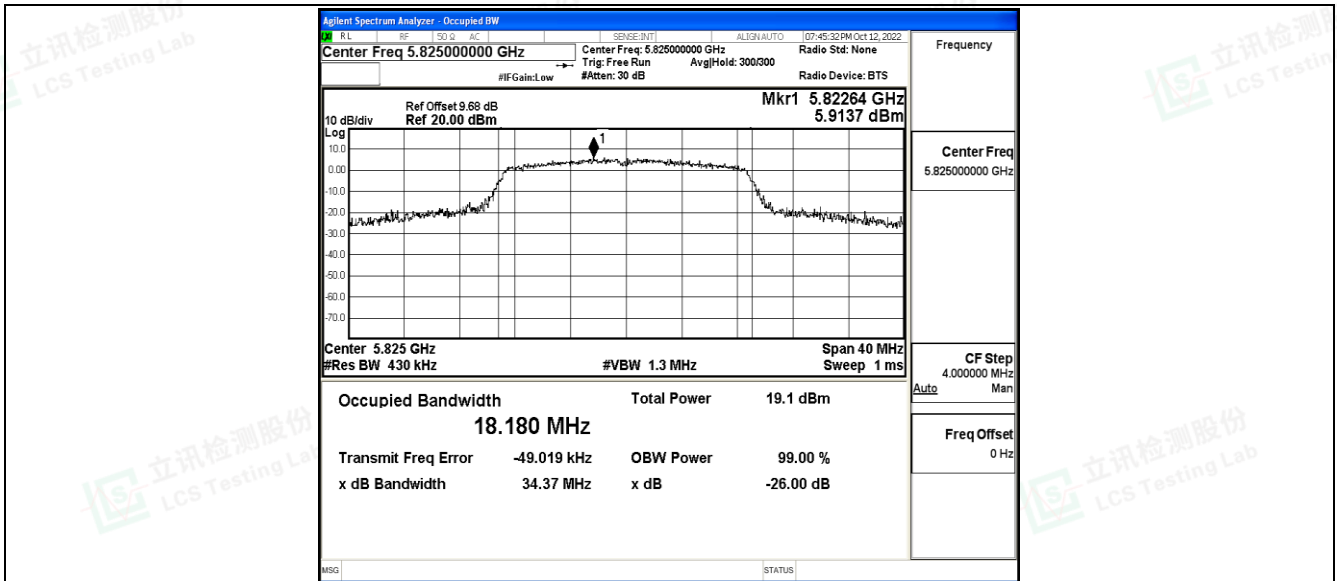


11AC20SISO_Ant_5785

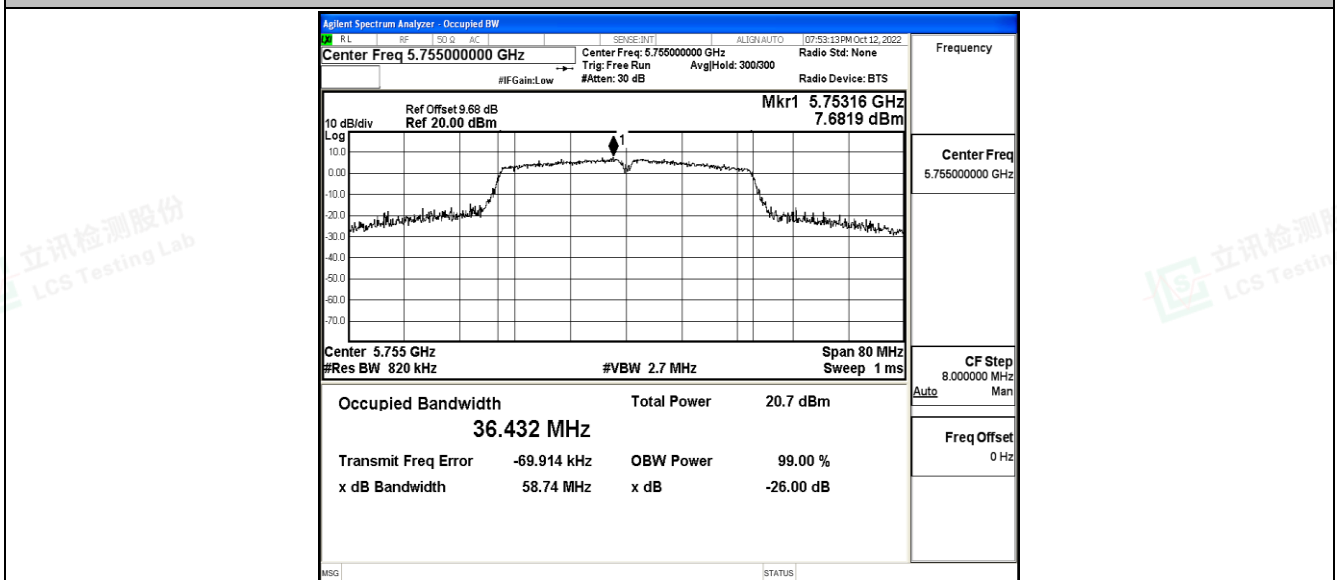


11AC20SISO_Ant_5825



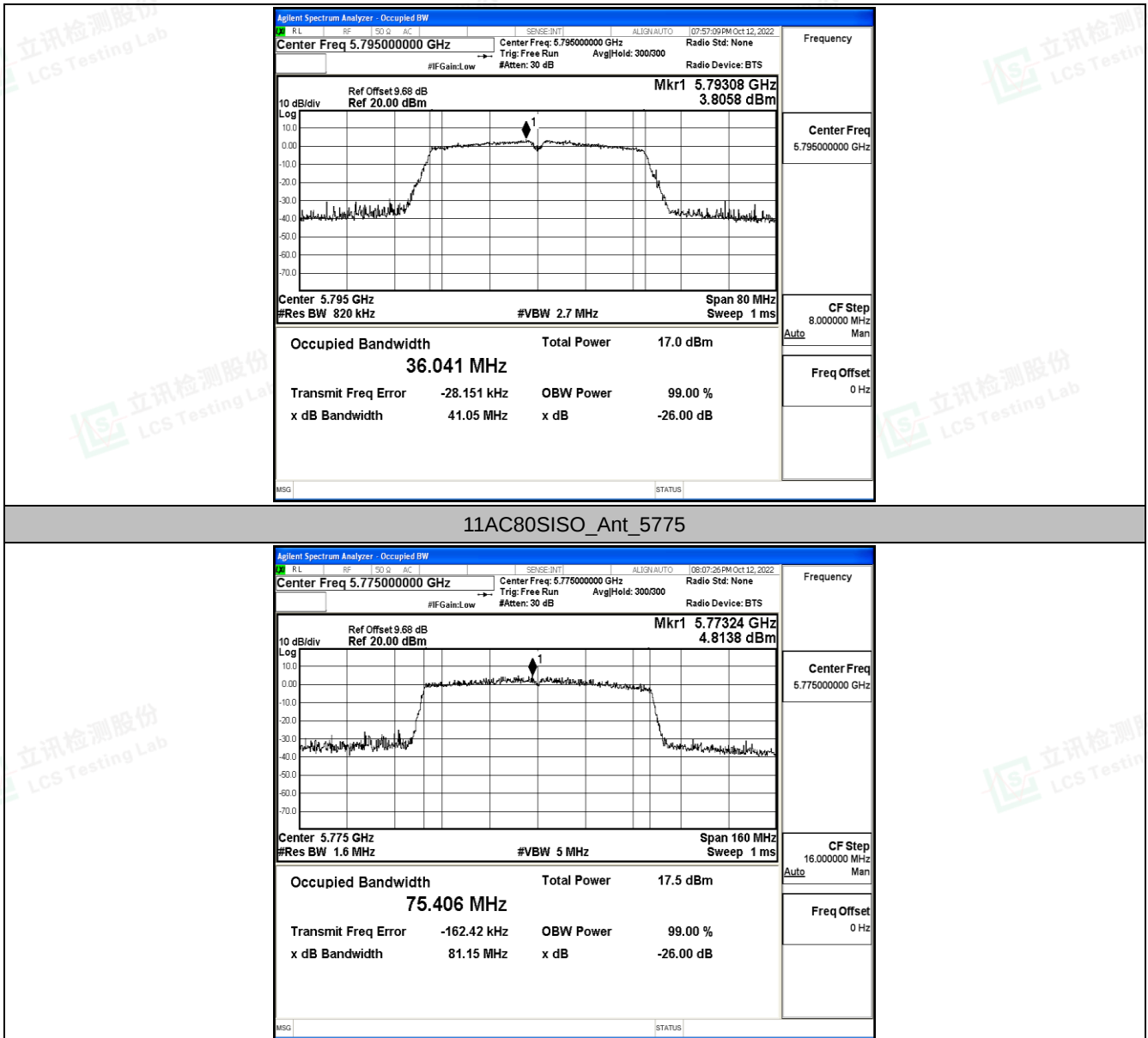


11AC40SISO_Ant_5755



11AC40SISO_Ant_5795







E.3 Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant	5745	9.95	≤30.00	PASS
		5785	9.99	≤30.00	PASS
		5825	9.65	≤30.00	PASS
11N20SISO	Ant	5745	9.54	≤30.00	PASS
		5785	9.37	≤30.00	PASS
		5825	9.36	≤30.00	PASS
11N40SISO	Ant	5755	9.62	≤30.00	PASS
		5795	9.66	≤30.00	PASS
11AC20SISO	Ant	5745	9.58	≤30.00	PASS
		5785	11.70	≤30.00	PASS
		5825	13.83	≤30.00	PASS
11AC40SISO	Ant	5755	13.81	≤30.00	PASS
		5795	9.99	≤30.00	PASS
11AC80SISO	Ant	5775	9.99	≤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	-3.15	≤30.00	PASS
		5785	-3.25	≤30.00	PASS
		5825	-3.6	≤30.00	PASS
11N20SISO	Ant	5745	-3.86	≤30.00	PASS
		5785	-4.01	≤30.00	PASS
		5825	-4.02	≤30.00	PASS
11N40SISO	Ant	5755	-6.79	≤30.00	PASS
		5795	-6.68	≤30.00	PASS
11AC20SISO	Ant	5745	-3.83	≤30.00	PASS
		5785	-1.71	≤30.00	PASS
		5825	0.44	≤30.00	PASS
11AC40SISO	Ant	5755	-2.62	≤30.00	PASS
		5795	-6.37	≤30.00	PASS
11AC80SISO	Ant	5775	-9.83	≤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.

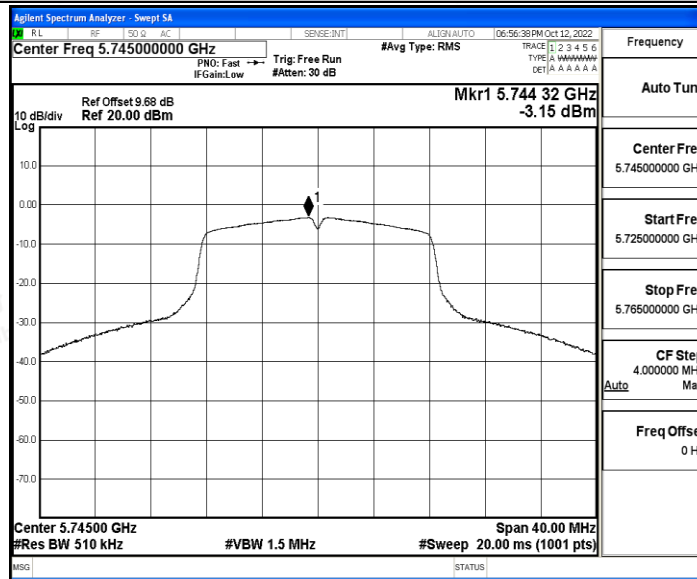


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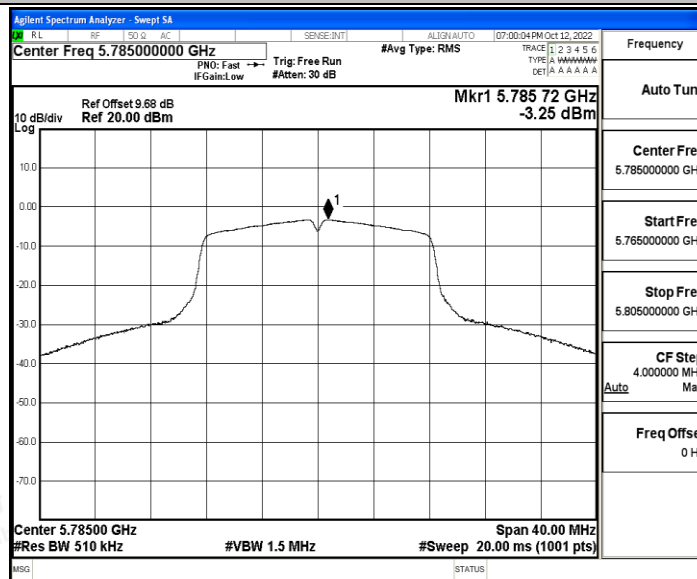


Test Graphs

11A_Ant_5745

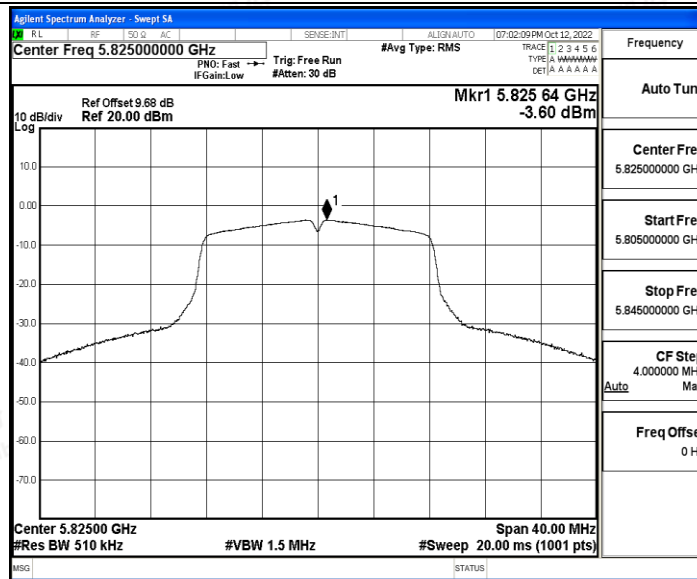


11A_Ant_5785

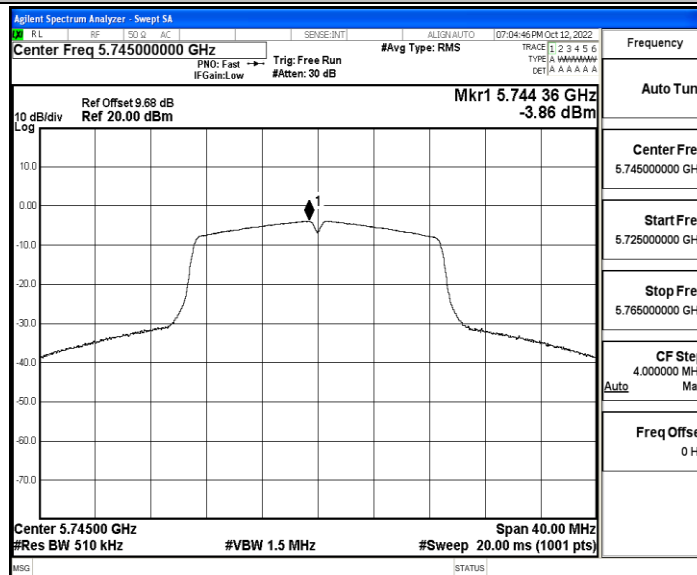


11A_Ant_5825



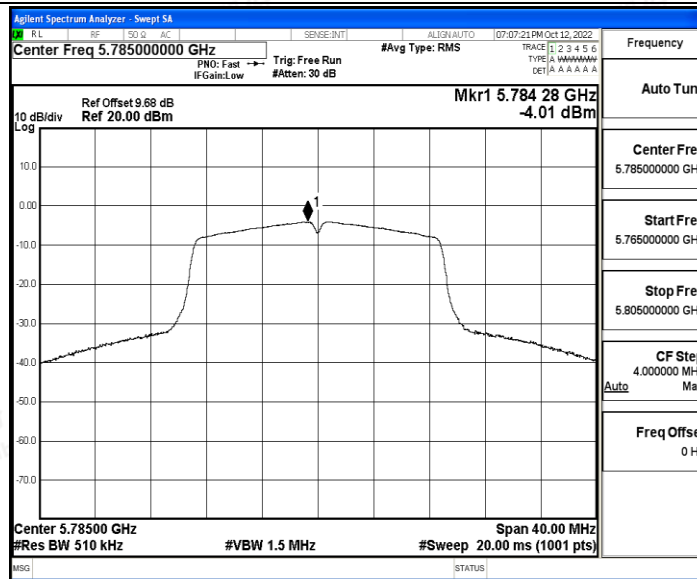


11N20SISO_Ant_5745

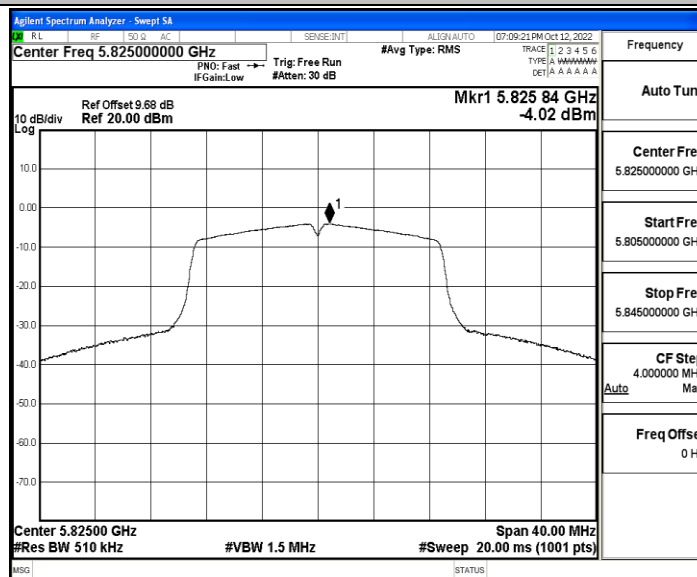


11N20SISO_Ant_5785



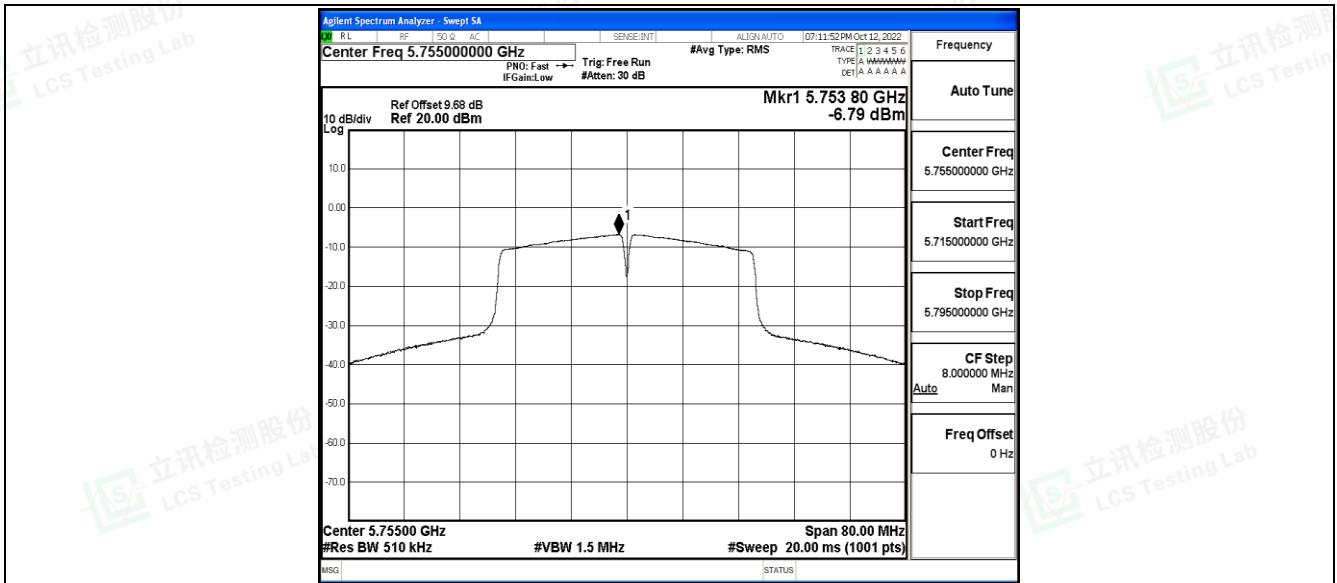


11N20SISO_Ant_5825

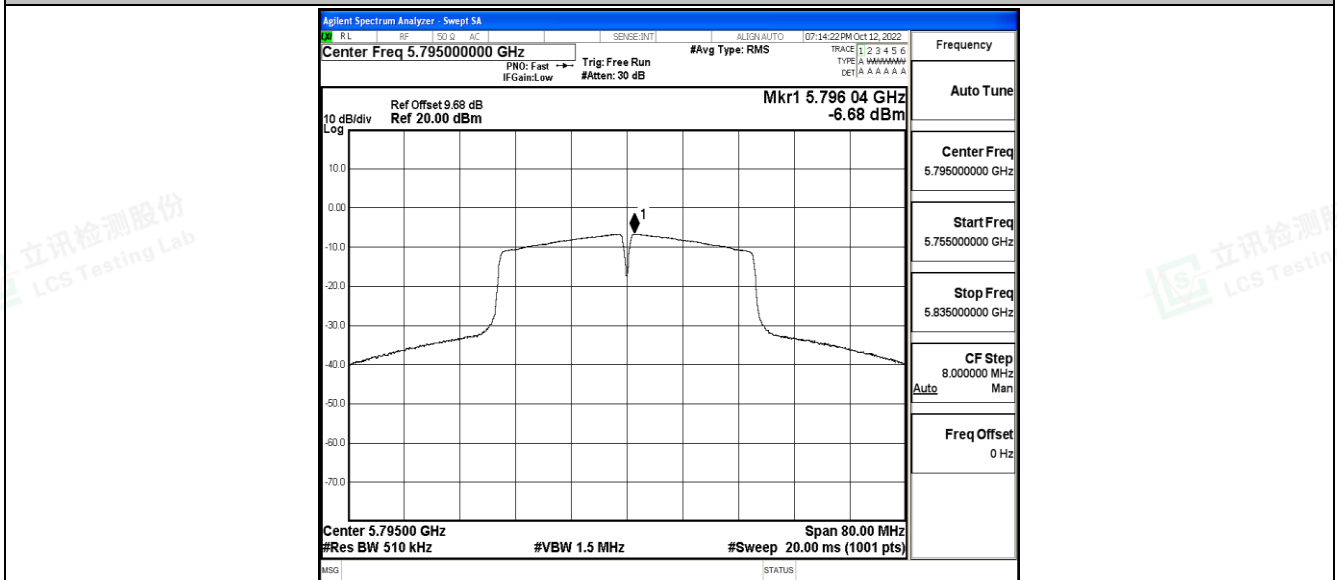


11N40SISO_Ant_5755



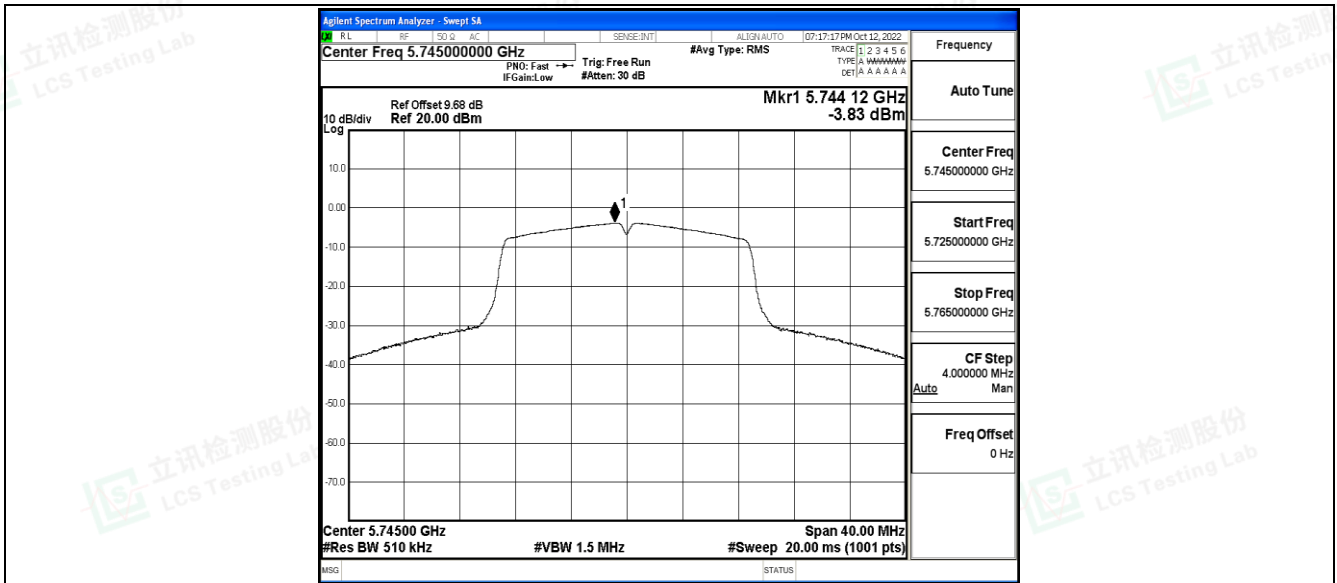


11N40SISO_Ant_5795

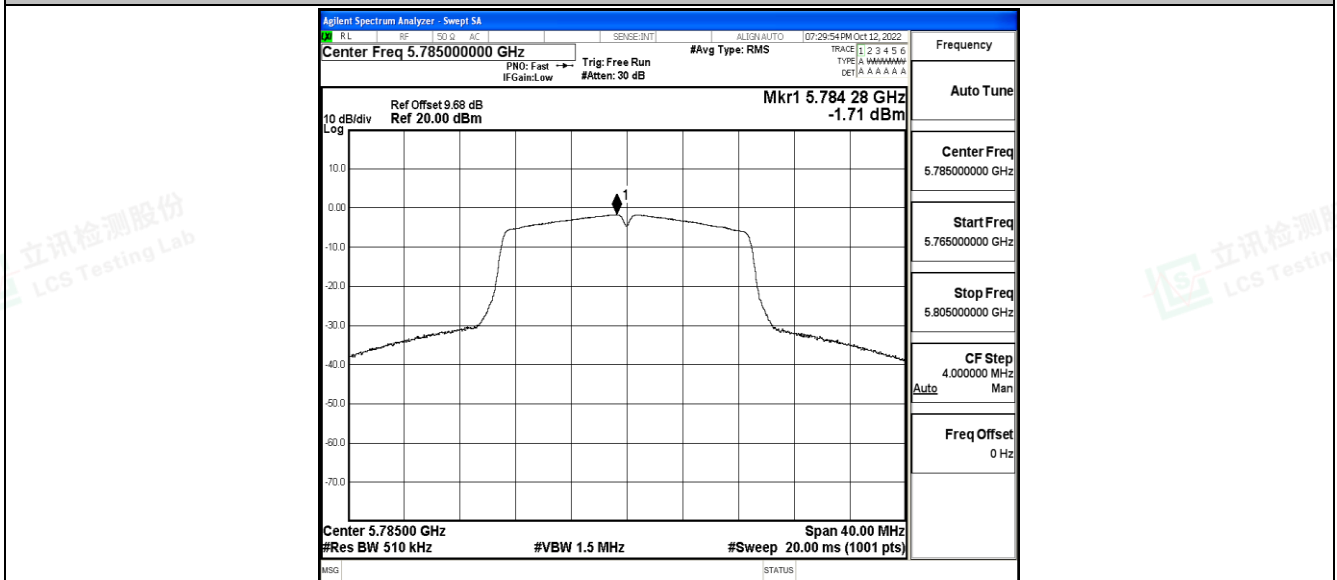


11AC20SISO_Ant_5745



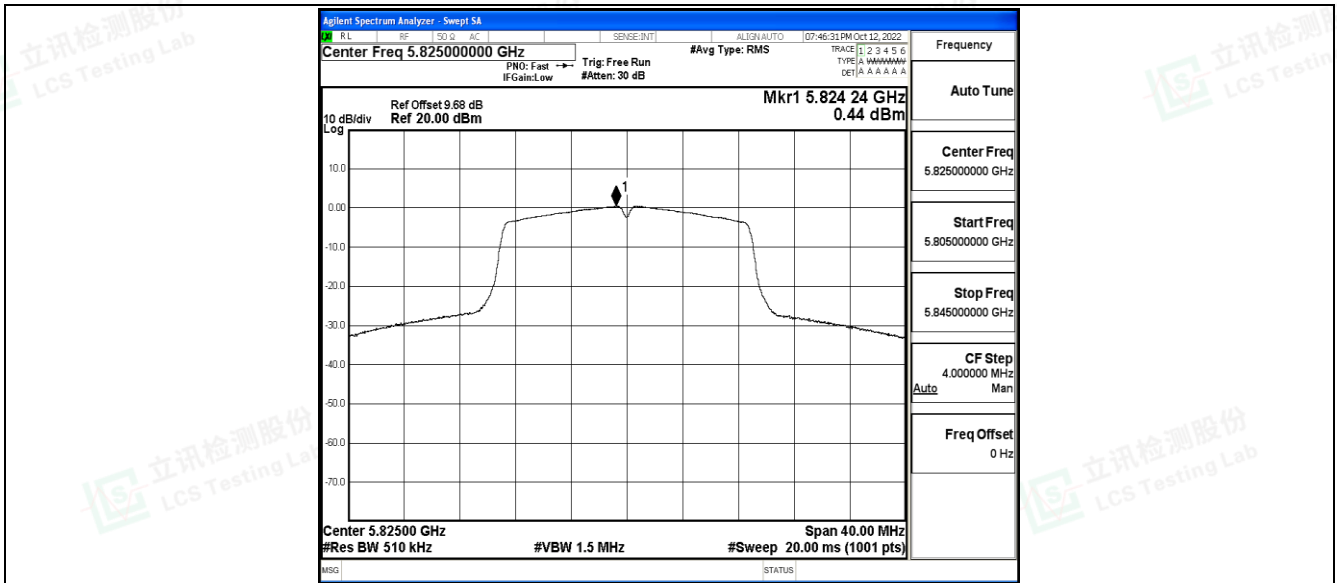


11AC20SISO_Ant_5785

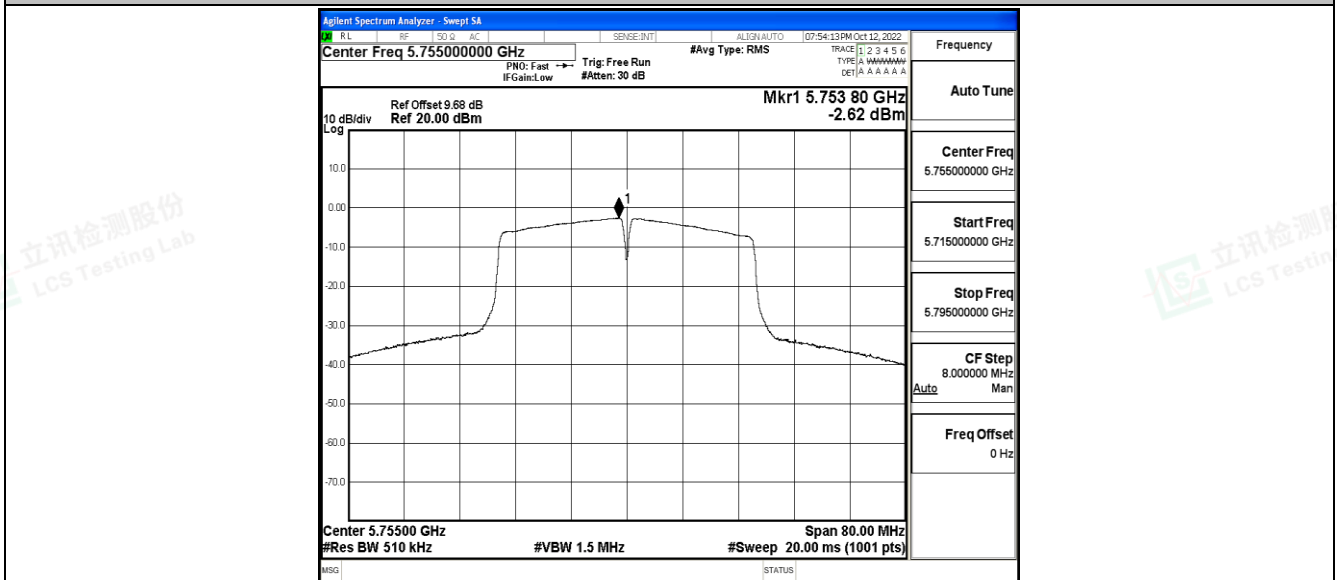


11AC20SISO_Ant_5825



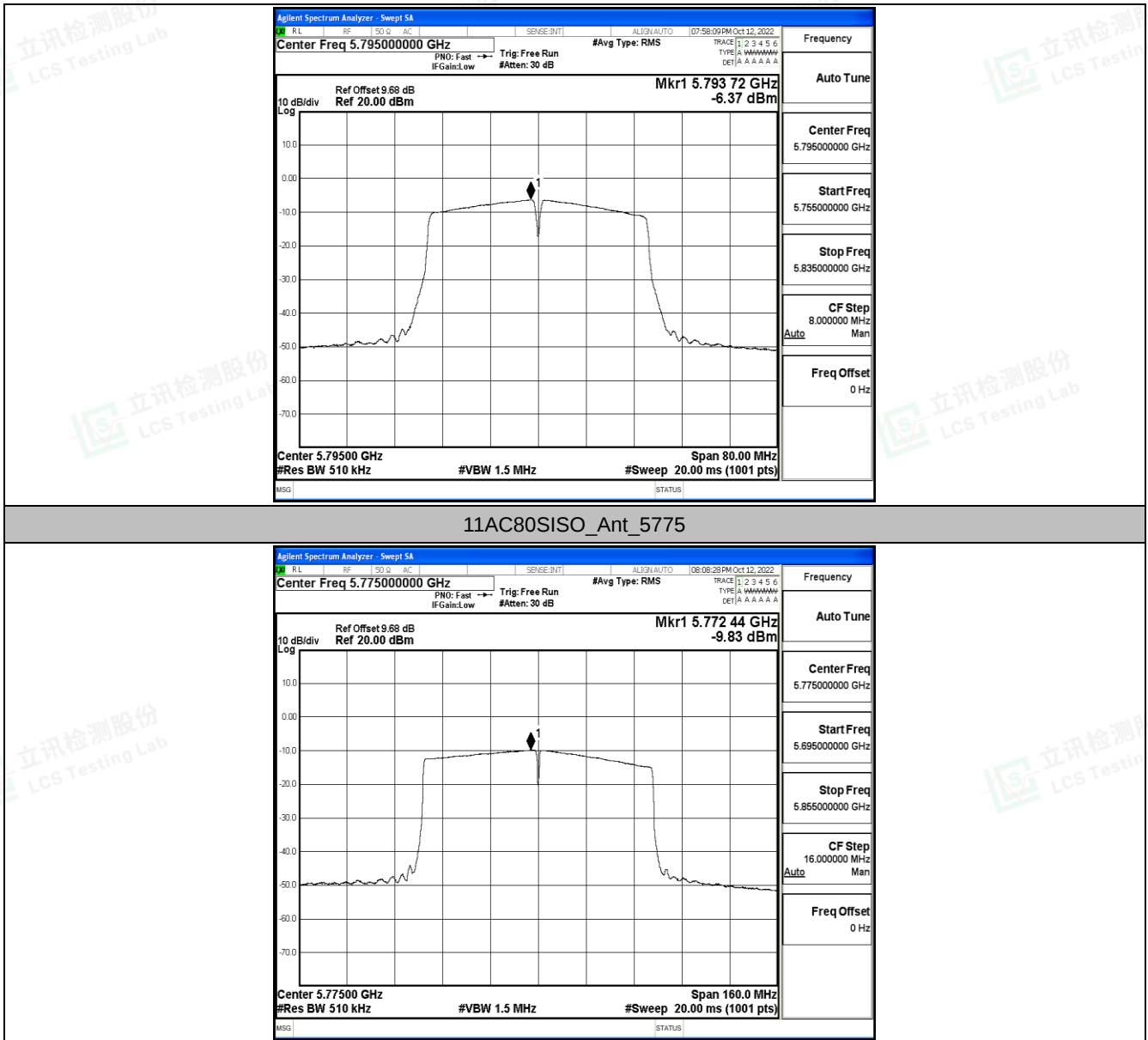


11AC40SISO_Ant_5755



11AC40SISO_Ant_5795







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	-45.347	≤-27.00	---	---	PASS
				Peak	5700.000	-41.49	≤10.00	---	---	PASS
				Peak	5720.000	-33.2	≤15.60	---	---	PASS
				Peak	5725.000	-27.53	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-34.814	≤15.60	---	---	PASS
				Peak	5855.000	-35.76	≤27.00	---	---	PASS
				Peak	5875.000	-41.43	≤15.60	---	---	PASS
				Peak	5925.000	-41.19	≤10.00	---	---	PASS
11N20SIS O	Ant	Low	5745	Peak	5650.000	-43.642	≤-27.00	---	---	PASS
				Peak	5700.000	-45.91	≤10.00	---	---	PASS
				Peak	5720.000	-36.69	≤15.60	---	---	PASS
				Peak	5725.000	-26.2	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-35.789	≤15.60	---	---	PASS
				Peak	5855.000	-36.17	≤27.00	---	---	PASS
				Peak	5875.000	-44.35	≤15.60	---	---	PASS
				Peak	5925.000	-43.79	≤10.00	---	---	PASS
11N40SIS O	Ant	Low	5755	Peak	5650.000	-42.386	≤-27.00	---	---	PASS
				Peak	5700.000	-38.87	≤10.00	---	---	PASS
				Peak	5720.000	-28.45	≤15.60	---	---	PASS
				Peak	5725.000	-26.36	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-39.518	≤15.60	---	---	PASS
				Peak	5855.000	-37.01	≤27.00	---	---	PASS
				Peak	5875.000	-44.15	≤15.60	---	---	PASS
				Peak	5925.000	-44.46	≤10.00	---	---	PASS
11AC20SI SO	Ant	Low	5745	Peak	5650.000	-40.197	≤-27.00	---	---	PASS
				Peak	5700.000	-39.48	≤10.00	---	---	PASS
				Peak	5720.000	-34.75	≤15.60	---	---	PASS
				Peak	5725.000	-28.24	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-27.134	≤15.60	---	---	PASS
				Peak	5855.000	-33.19	≤27.00	---	---	PASS
				Peak	5875.000	-36.3	≤15.60	---	---	PASS
				Peak	5925.000	-42.03	≤10.00	---	---	PASS
11AC40SI SO	Ant	Low	5755	Peak	5650.000	-41.225	≤-27.00	---	---	PASS
				Peak	5700.000	-34.09	≤10.00	---	---	PASS
				Peak	5720.000	-29.31	≤15.60	---	---	PASS



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		High	5795	Peak	5725.000	-24.7	≤27.00	- --	- --	PASS
				Peak	5850.000	-41.204	≤15.60	---	---	PASS
				Peak	5855.000	-44.82	≤27.00	---	---	PASS
				Peak	5875.000	-42.26	≤15.60	---	---	PASS
				Peak	5925.000	-41.92	≤10.00	- --	- --	PASS
11AC80SI SO	Ant	Low	5775	Peak	5650.000	-43.304	≤-27.00	---	---	PASS
				Peak	5700.000	-40.33	≤10.00	---	---	PASS
				Peak	5720.000	-42.03	≤15.60	---	---	PASS
				Peak	5725.000	-41.47	≤27.00	- --	- --	PASS
		High	5775	Peak	5850.000	-37.885	≤15.60	---	---	PASS
				Peak	5855.000	-42.86	≤27.00	---	---	PASS
				Peak	5875.000	-43.7	≤15.60	---	---	PASS
				Peak	5925.000	-43.29	≤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.

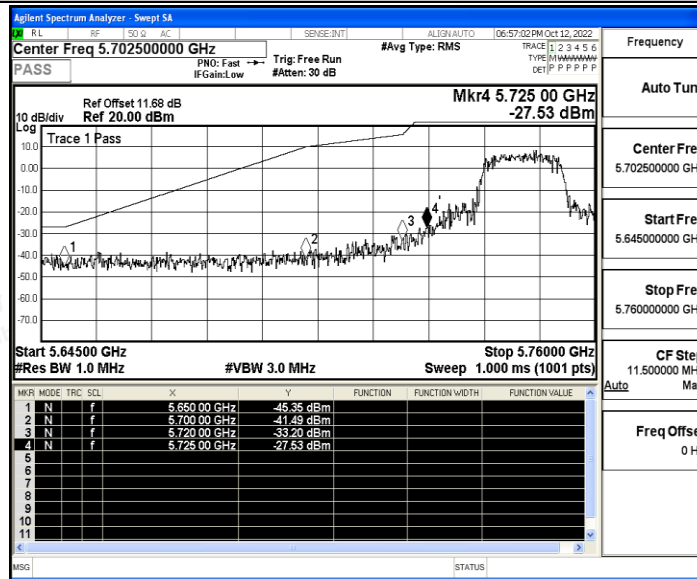


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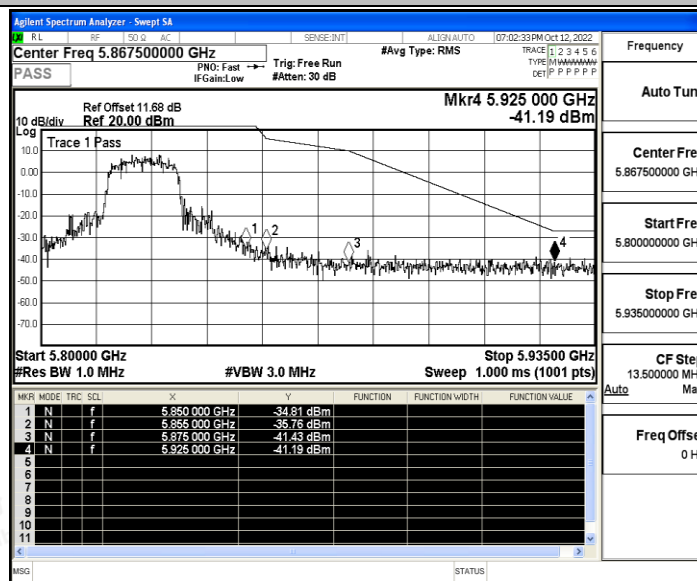


Test Graphs

11A_Ant_Low_5745_Peak

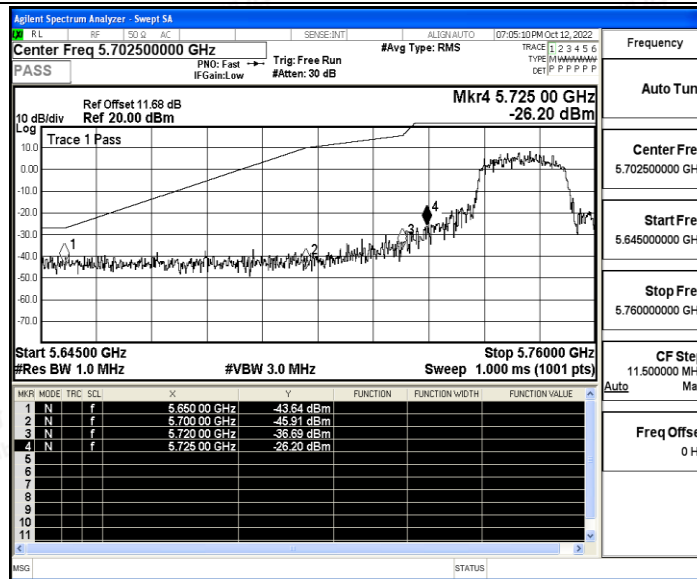


11A_Ant_High_5825_Peak

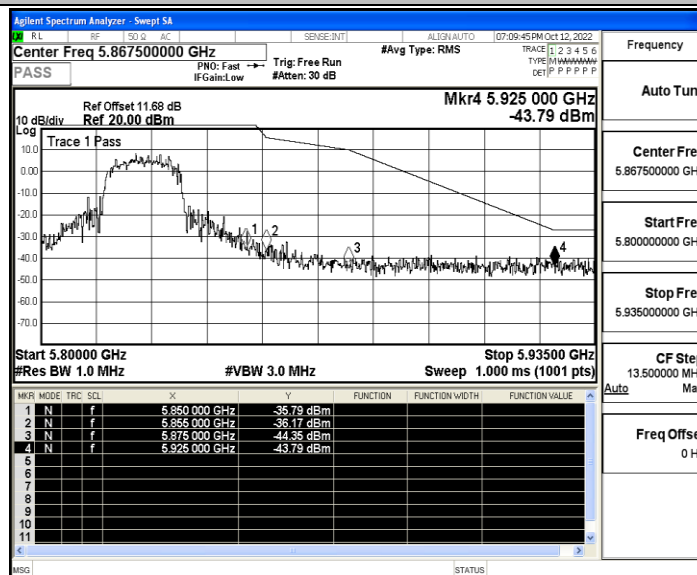


11N20SISO_Ant_Low_5745_Peak



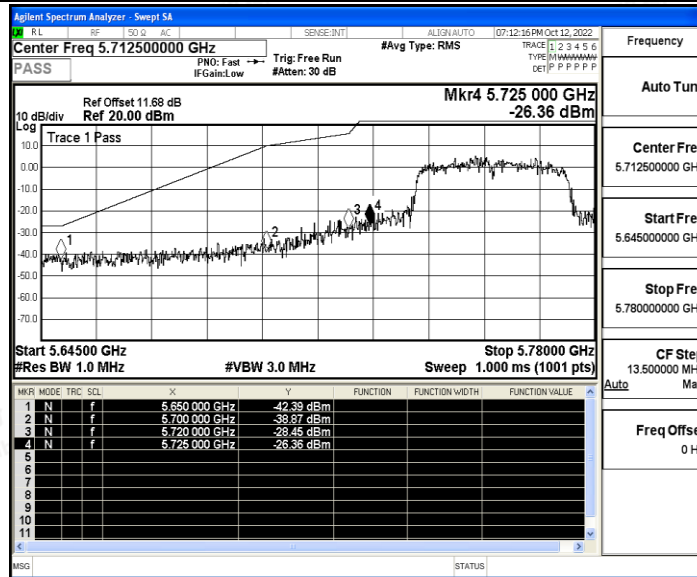


11N20SISO_Ant_High_5825_Peak

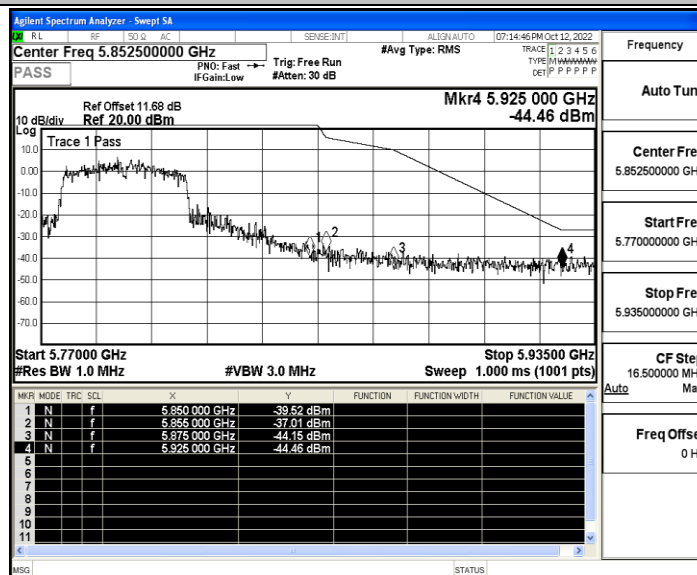


11N40SISO_Ant_Low_5755_Peak



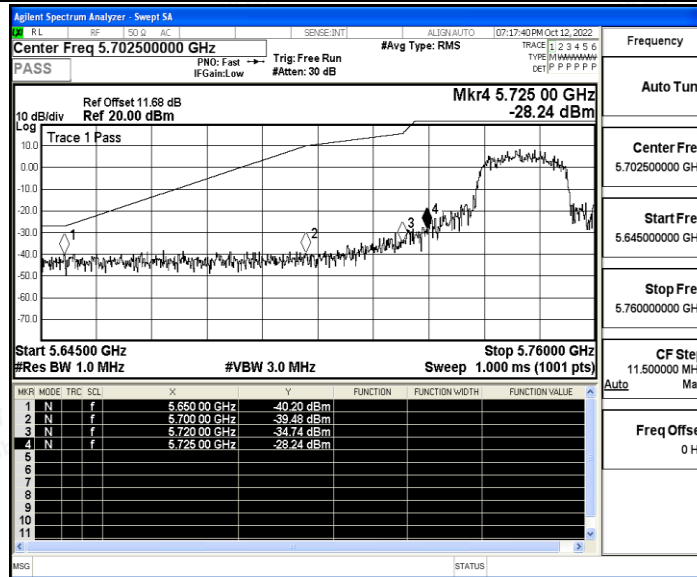


11N40SISO_Ant_High_5795_Peak

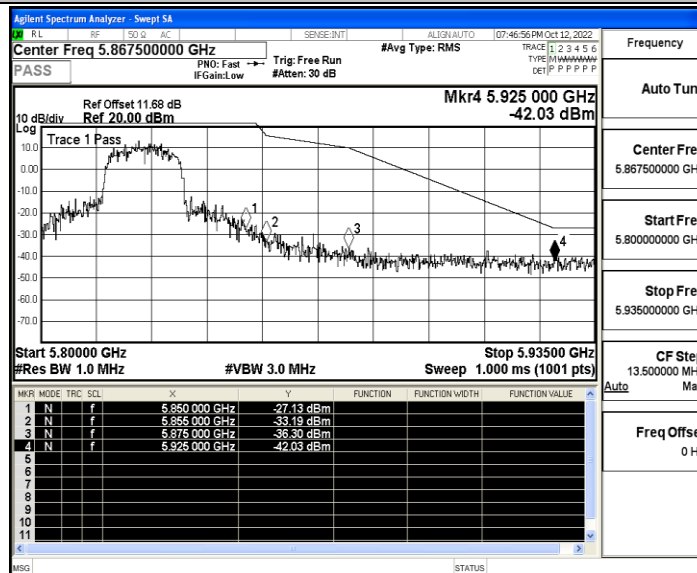


11AC20SISO_Ant_Low_5745_Peak



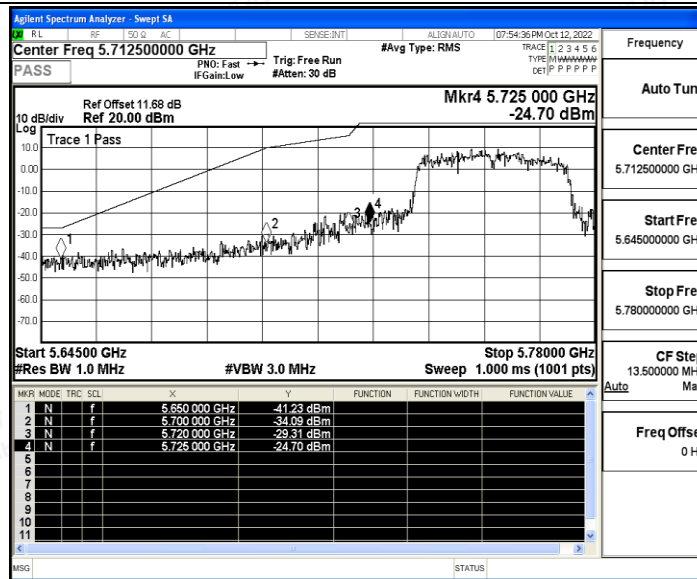


11AC20SISO_Ant_High_5825_Peak

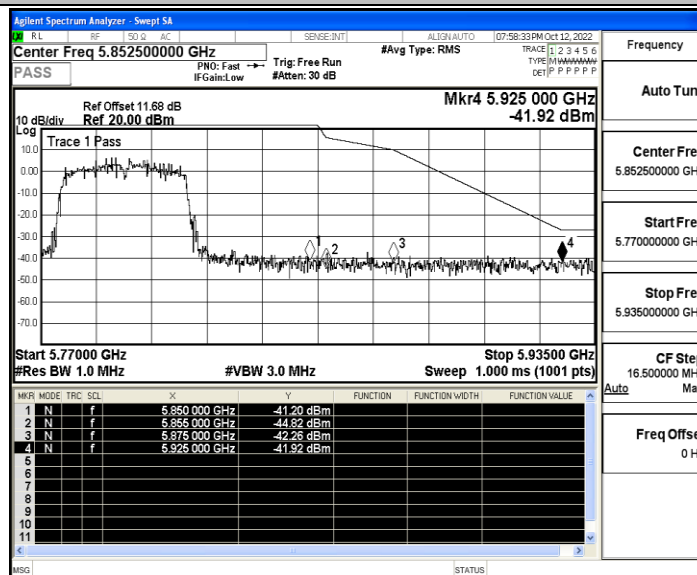


11AC40SISO_Ant_Low_5755_Peak



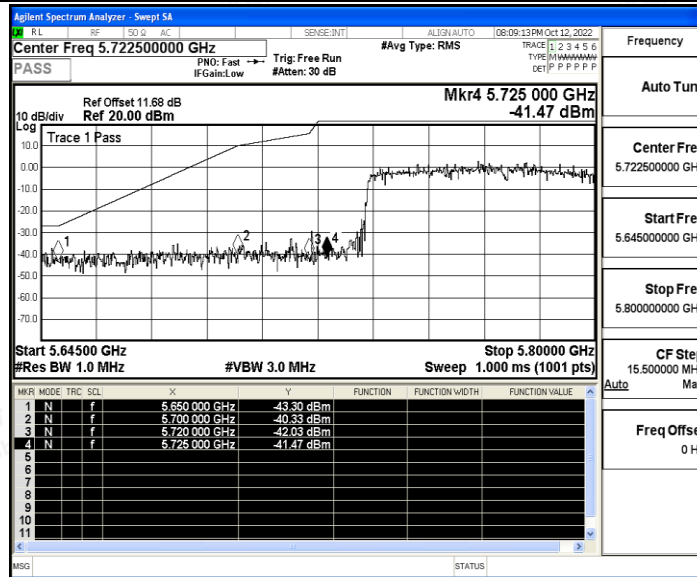


11AC40SISO_Ant_High_5795_Peak

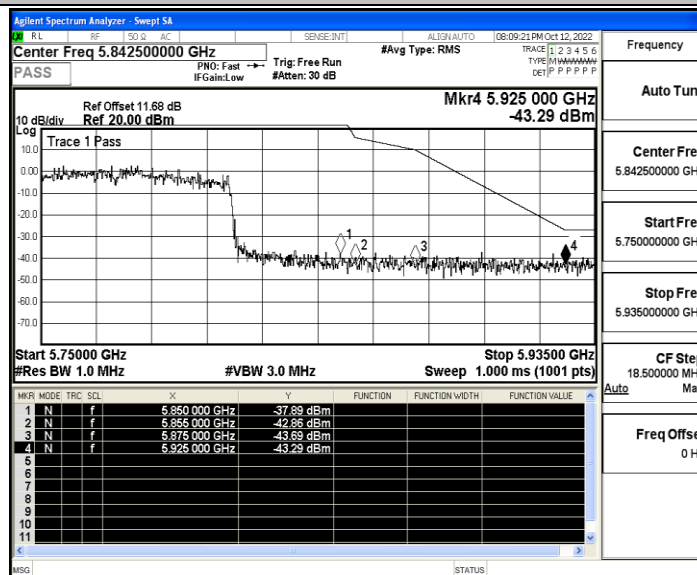


11AC80SISO_Ant_Low_5775_Peak





11AC80SISO_Ant_High_5775_Peak





E.6 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SIS O	Ant	5745	NV	NT	-21000.00	-3.655352	20	PASS
			LV	NT	-21000.00	-3.655352	20	PASS
			HV	NT	-21000.00	-3.655352	20	PASS
		5785	NV	NT	-21000.00	-3.630078	20	PASS
			LV	NT	-21000.00	-3.630078	20	PASS
			HV	NT	-21000.00	-3.630078	20	PASS
		5825	NV	NT	-7000.00	-1.201717	20	PASS
			LV	NT	-8000.00	-1.373391	20	PASS
			HV	NT	-8000.00	-1.373391	20	PASS
11AC40SIS O	Ant	5755	NV	NT	-16000.00	-2.780191	20	PASS
			LV	NT	-16000.00	-2.780191	20	PASS
			HV	NT	-17000.00	-2.953953	20	PASS
		5795	NV	NT	-23000.00	-3.968939	20	PASS
			LV	NT	-23000.00	-3.968939	20	PASS
			HV	NT	-23000.00	-3.968939	20	PASS
11AC80SIS O	Ant	5775	NV	NT	-23000.00	-3.982684	20	PASS
			LV	NT	-23000.00	-3.982684	20	PASS
			HV	NT	-23000.00	-3.982684	20	PASS

Temperature								
TestMode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SIS O	Ant	5745	NV	-30	-21000.00	-3.655352	20	PASS
			NV	-20	-21000.00	-3.655352	20	PASS
			NV	-10	-21000.00	-3.655352	20	PASS
			NV	0	-21000.00	-3.655352	20	PASS
			NV	10	-20000.00	-3.481288	20	PASS
			NV	20	-20000.00	-3.481288	20	PASS
			NV	30	-21000.00	-3.655352	20	PASS
			NV	40	-20000.00	-3.481288	20	PASS
			NV	50	-20000.00	-3.481288	20	PASS
		5785	NV	-30	-20000.00	-3.457217	20	PASS
			NV	-20	-21000.00	-3.630078	20	PASS
			NV	-10	-20000.00	-3.457217	20	PASS





			NV	0	-20000.00	-3.457217	20	PASS
			NV	10	-20000.00	-3.457217	20	PASS
			NV	20	-21000.00	-3.630078	20	PASS
			NV	30	-21000.00	-3.630078	20	PASS
			NV	40	-21000.00	-3.630078	20	PASS
			NV	50	-21000.00	-3.630078	20	PASS
		5825	NV	-30	-8000.00	-1.373391	20	PASS
			NV	-20	-9000.00	-1.545064	20	PASS
			NV	-10	-9000.00	-1.545064	20	PASS
			NV	0	-10000.00	-1.716738	20	PASS
			NV	10	-10000.00	-1.716738	20	PASS
			NV	20	-10000.00	-1.716738	20	PASS
			NV	30	-11000.00	-1.888412	20	PASS
			NV	40	-11000.00	-1.888412	20	PASS
			NV	50	-12000.00	-2.060086	20	PASS
11AC40SIS O	Ant	5755	NV	-30	-17000.00	-2.953953	20	PASS
			NV	-20	-17000.00	-2.953953	20	PASS
			NV	-10	-17000.00	-2.953953	20	PASS
			NV	0	-17000.00	-2.953953	20	PASS
			NV	10	-17000.00	-2.953953	20	PASS
			NV	20	-17000.00	-2.953953	20	PASS
			NV	30	-17000.00	-2.953953	20	PASS
			NV	40	-17000.00	-2.953953	20	PASS
			NV	50	-17000.00	-2.953953	20	PASS
		5795	NV	-30	-23000.00	-3.968939	20	PASS
			NV	-20	-23000.00	-3.968939	20	PASS
			NV	-10	-23000.00	-3.968939	20	PASS
			NV	0	-23000.00	-3.968939	20	PASS
			NV	10	-23000.00	-3.968939	20	PASS
			NV	20	-23000.00	-3.968939	20	PASS
			NV	30	-23000.00	-3.968939	20	PASS
			NV	40	-23000.00	-3.968939	20	PASS
			NV	50	-23000.00	-3.968939	20	PASS
11AC80SIS O	Ant	5775	NV	-30	-23000.00	-3.982684	20	PASS
			NV	-20	-23000.00	-3.982684	20	PASS
			NV	-10	-23000.00	-3.982684	20	PASS
			NV	0	-23000.00	-3.982684	20	PASS
			NV	10	-23000.00	-3.982684	20	PASS
			NV	20	-23000.00	-3.982684	20	PASS
			NV	30	-23000.00	-3.982684	20	PASS





			NV	40	-23000.00	-3.982684	20	PASS
			NV	50	-23000.00	-3.982684	20	PASS



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Scan code to check authenticity



E.7 Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11A	Ant	5745	27.00	27.00	100.00	0.00
		5785	27.00	27.00	100.00	0.00
		5825	27.00	27.00	100.00	0.00
11N20SISO	Ant	5745	27.00	27.00	100.00	0.00
		5785	27.00	27.00	100.00	0.00
		5825	27.00	27.00	100.00	0.00
11N40SISO	Ant	5755	27.00	27.00	100.00	0.00
		5795	27.00	27.00	100.00	0.00
11AC20SISO	Ant	5745	27.00	27.00	100.00	0.00
		5785	27.00	27.00	100.00	0.00
		5825	27.00	27.00	100.00	0.00
11AC40SISO	Ant	5755	27.00	27.00	100.00	0.00
		5795	27.00	27.00	100.00	0.00
11AC80SISO	Ant	5775	27.00	27.00	100.00	0.00

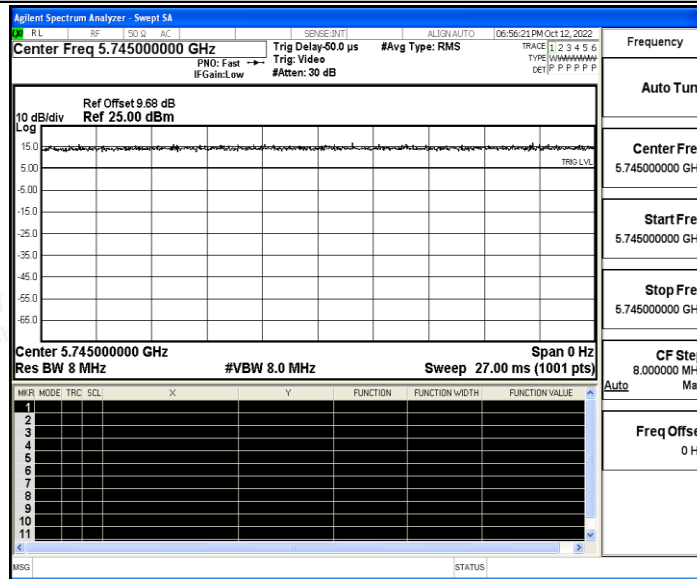


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Scan code to check authenticity

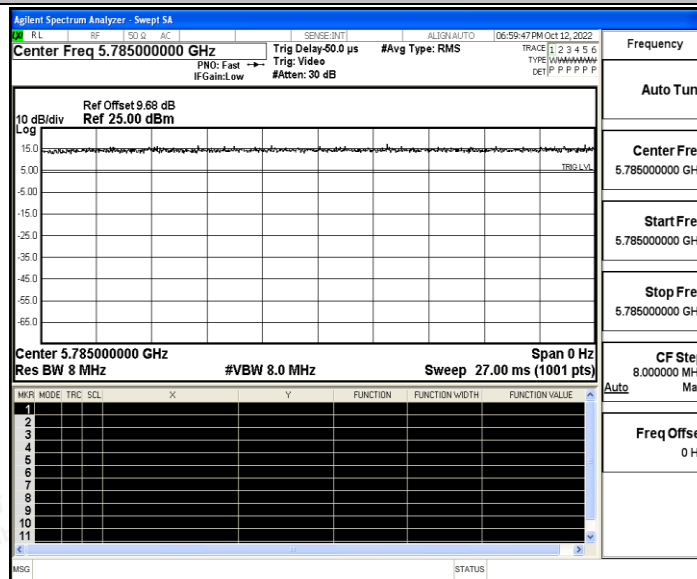


Test Graphs

11A_Ant_5745

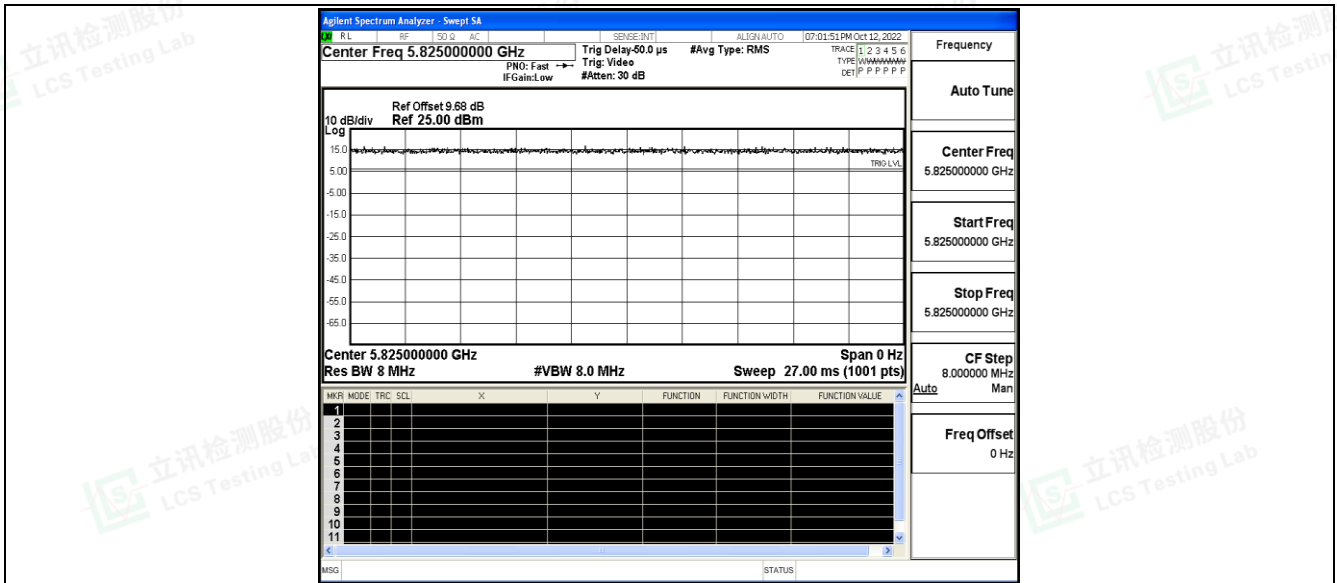


11A_Ant_5785

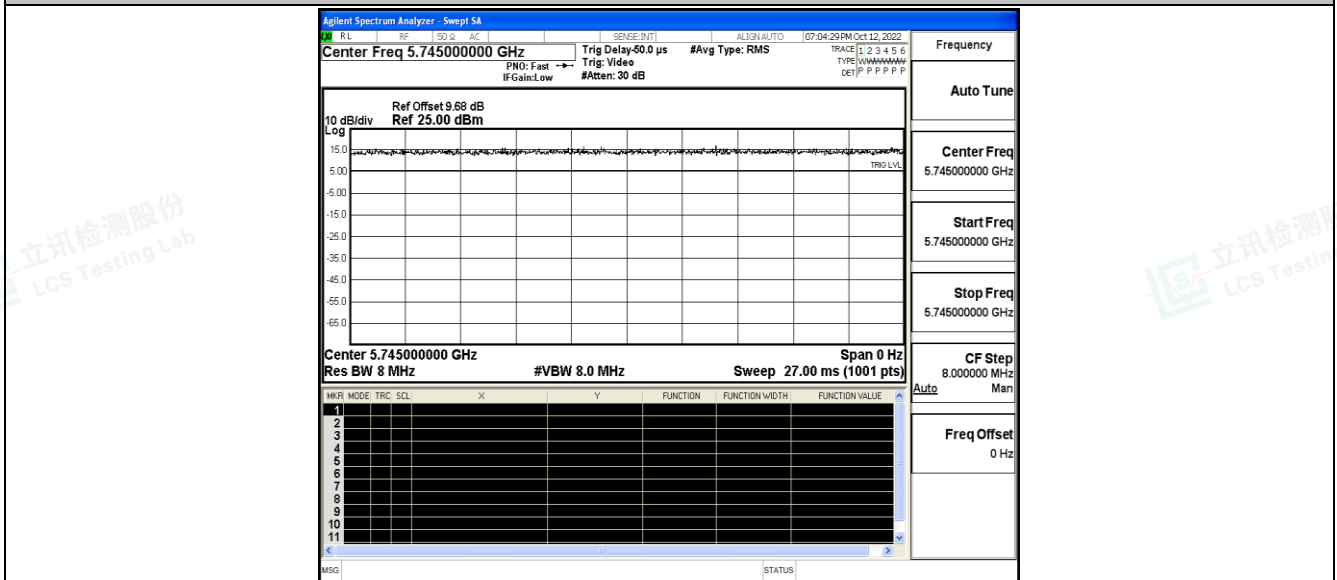


11A_Ant_5825



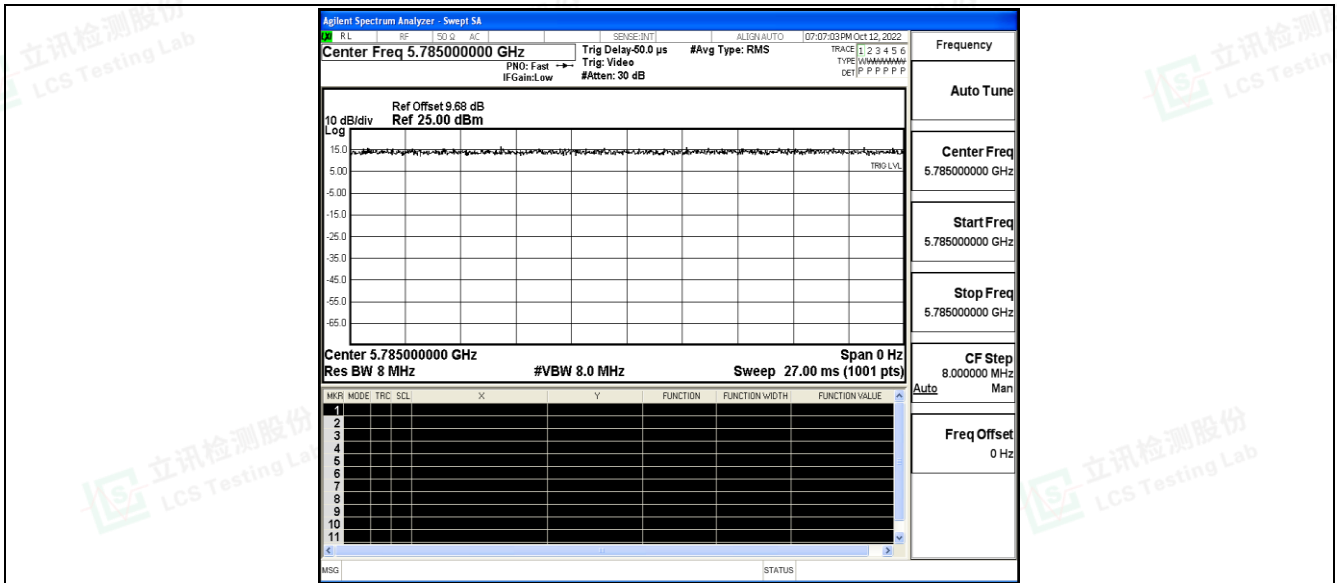


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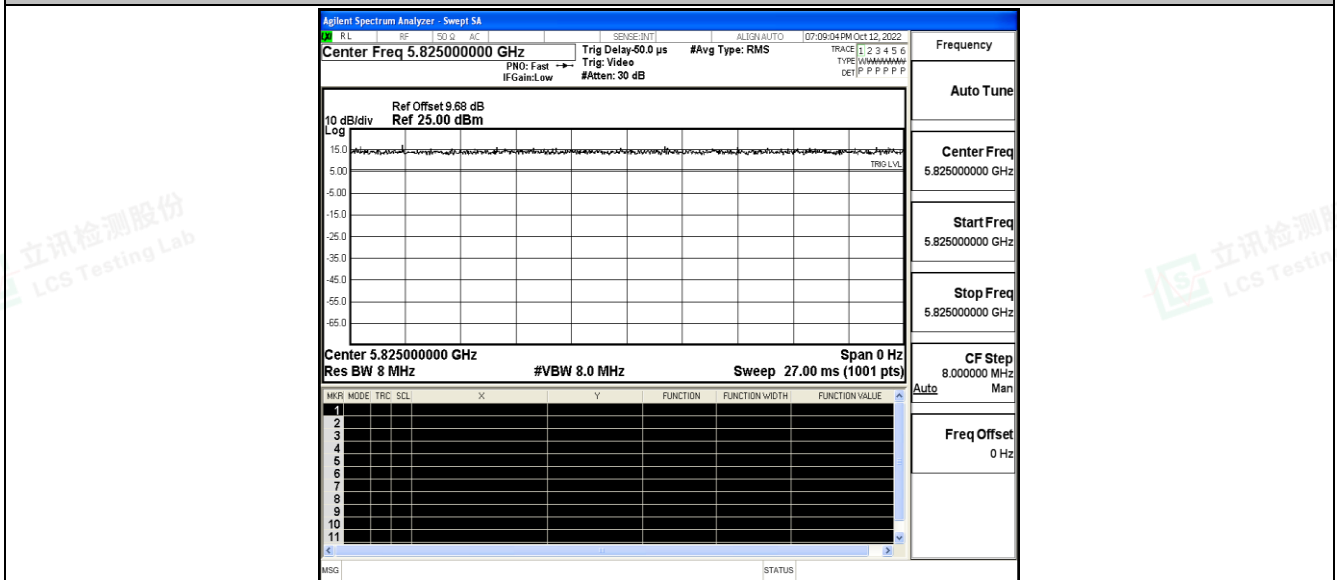


11N20SISO_Ant_5785



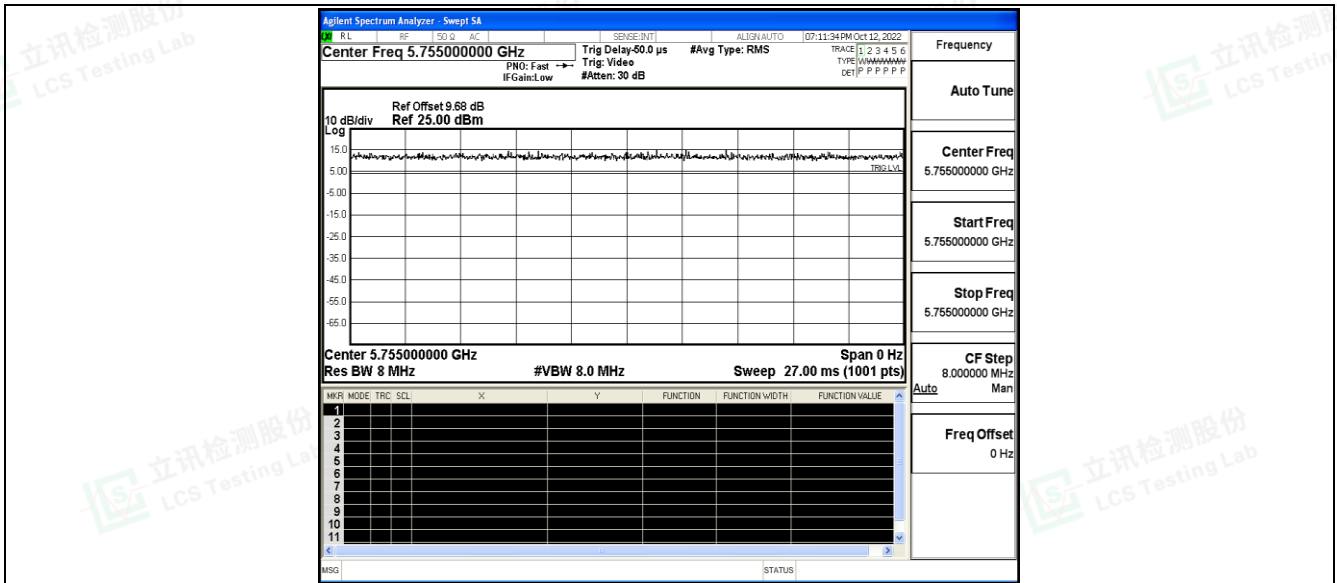


11N20ISO_Ant_5825

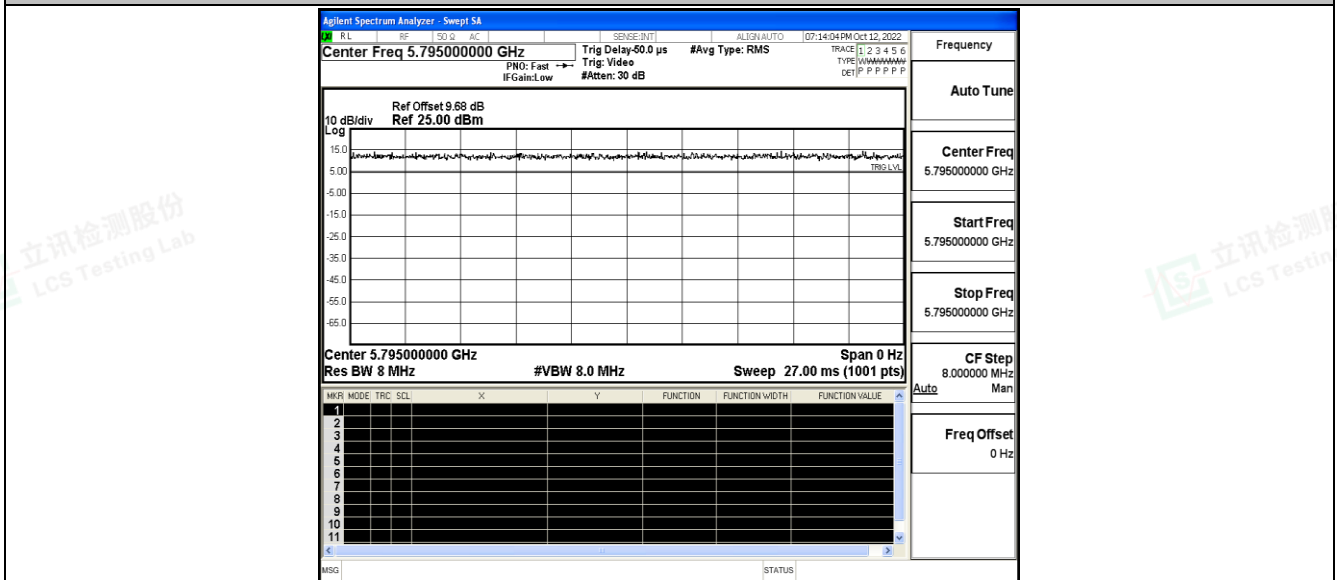


11N40ISO_Ant_5755



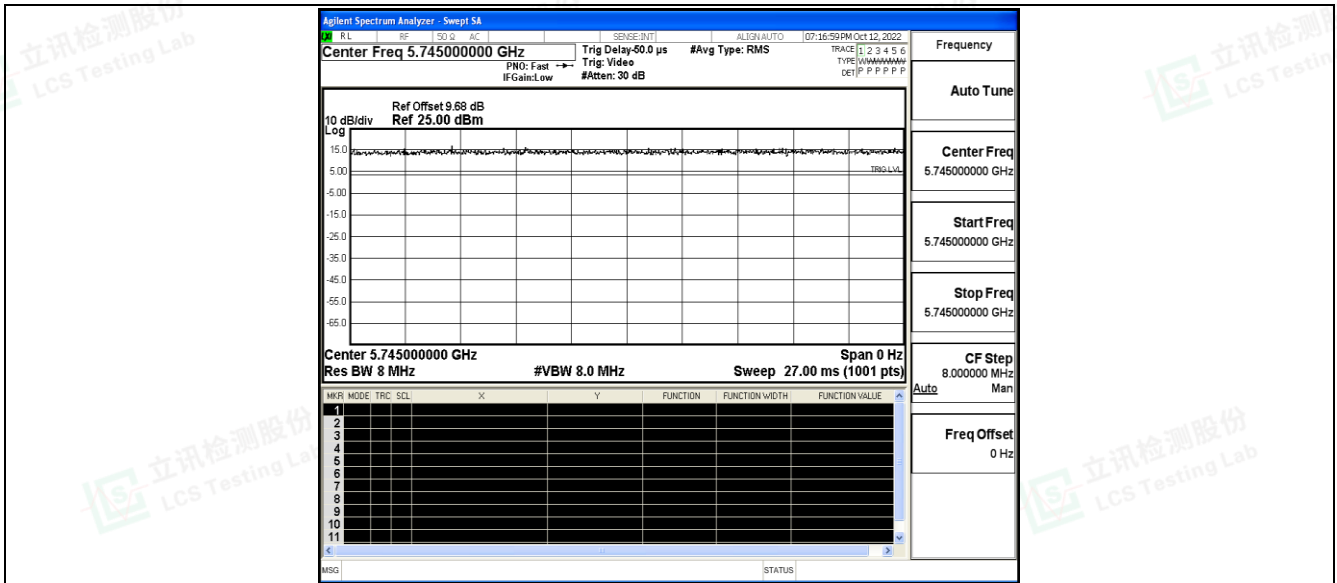


11N40SISO_Ant_5795

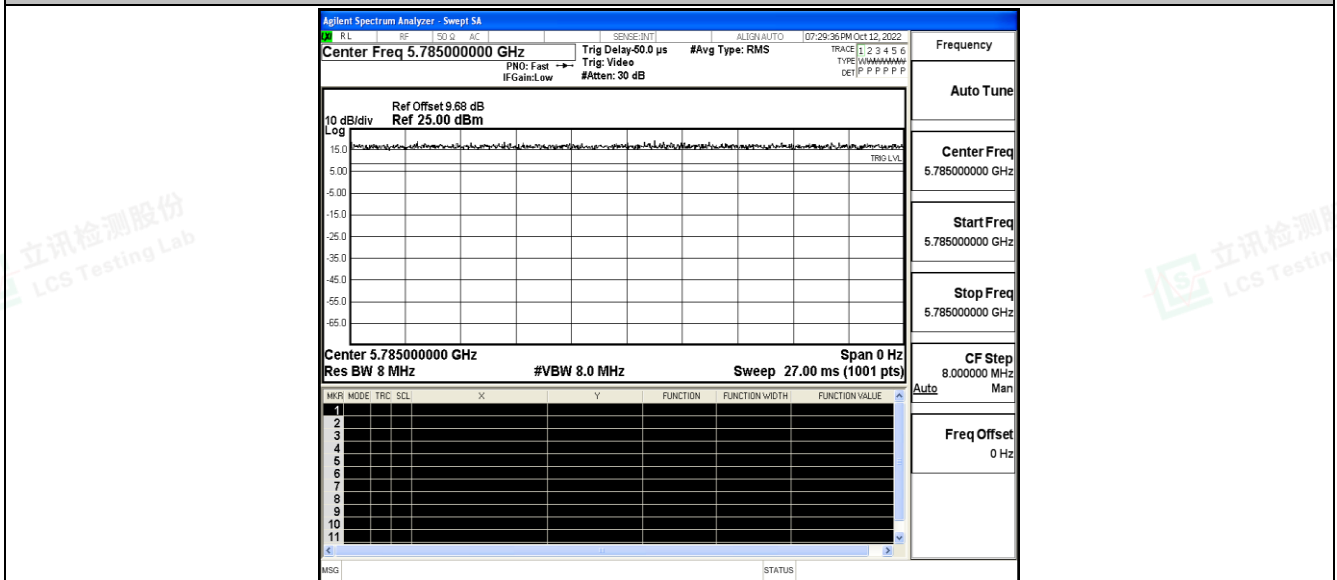


11AC20SISO_Ant_5745



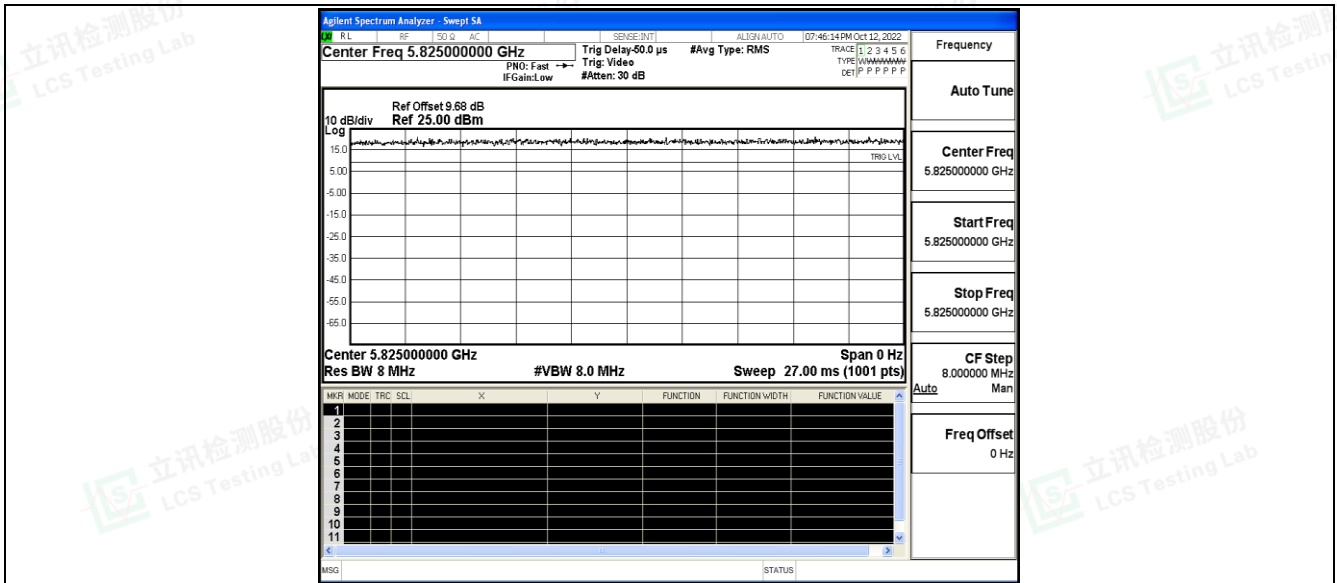


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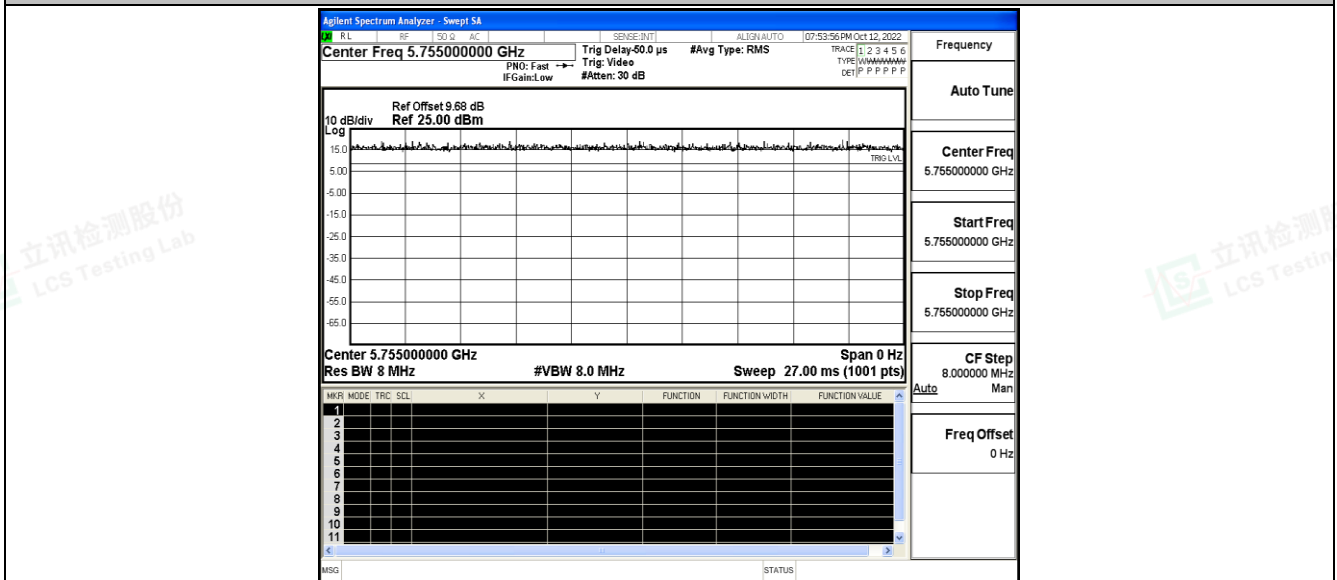


11AC20SISO_Ant_5825





11AC40SISO_Ant_5755



11AC40SISO_Ant_5795



