



Appendix E

RF Test Data for 5.8G WIFI (Conducted Measurement)

Product Name: AMD R1505G Player

Test Model: SMPA-R1505G

Environmental Conditions

Temperature:	21.1 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan



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E.1 6dB bandwidth

Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.480	5736.760	5753.240	0.5	PASS
		5785	15.560	5777.040	5792.600	0.5	PASS
		5825	15.160	5817.400	5832.560	0.5	PASS
11N20SISO	Ant1	5745	17.680	5736.160	5753.840	0.5	PASS
		5785	17.680	5776.160	5793.840	0.5	PASS
		5825	17.680	5816.160	5833.840	0.5	PASS
11N40SISO	Ant1	5755	36.480	5736.760	5773.240	0.5	PASS
		5795	36.480	5776.760	5813.240	0.5	PASS
11AC20SISO	Ant1	5745	17.680	5736.160	5753.840	0.5	PASS
		5785	17.680	5776.160	5793.840	0.5	PASS
		5825	17.680	5816.160	5833.840	0.5	PASS
11AC40SISO	Ant1	5755	36.480	5736.760	5773.240	0.5	PASS
		5795	36.480	5776.760	5813.240	0.5	PASS
11AC80SISO	Ant1	5775	76.320	5736.920	5813.240	0.5	PASS



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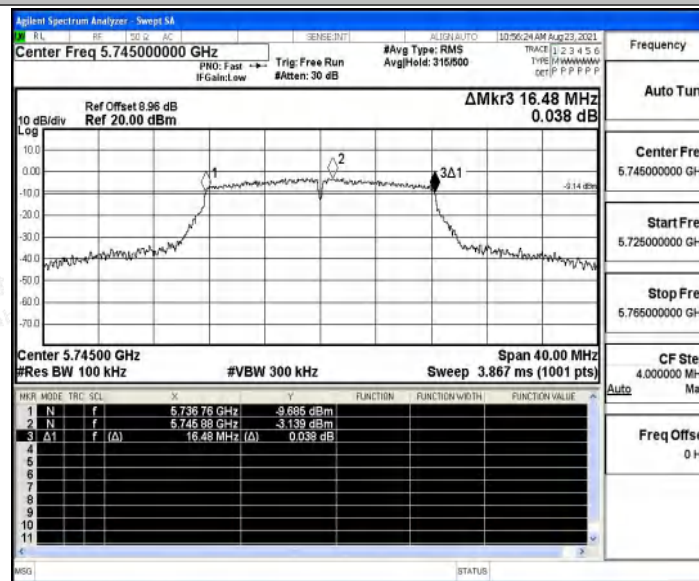
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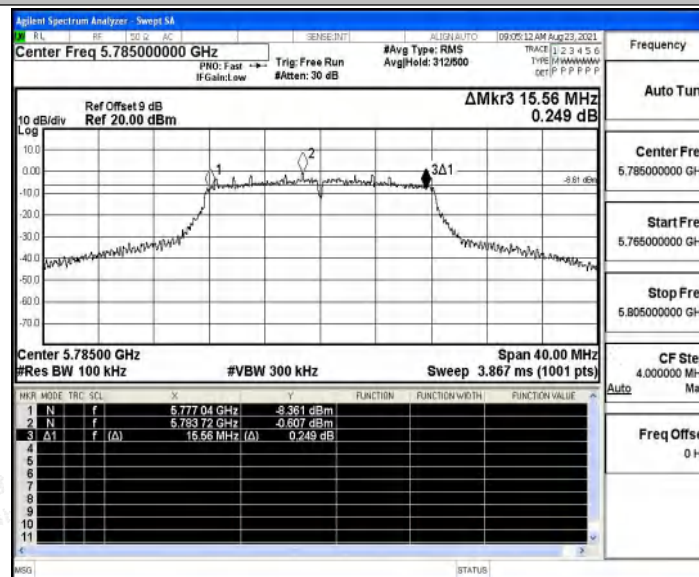


Test Graphs

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825

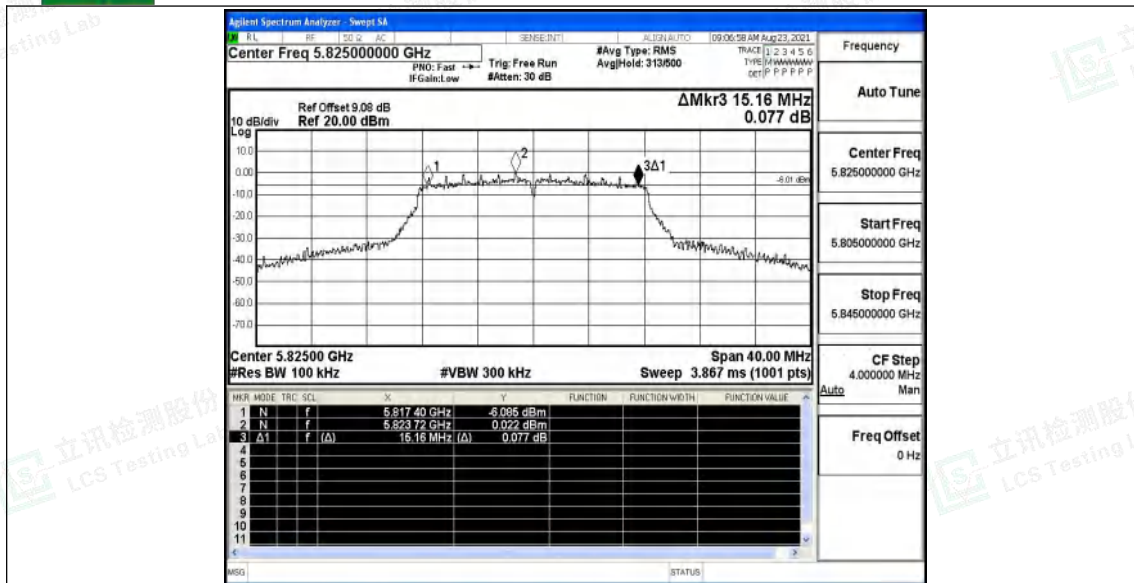


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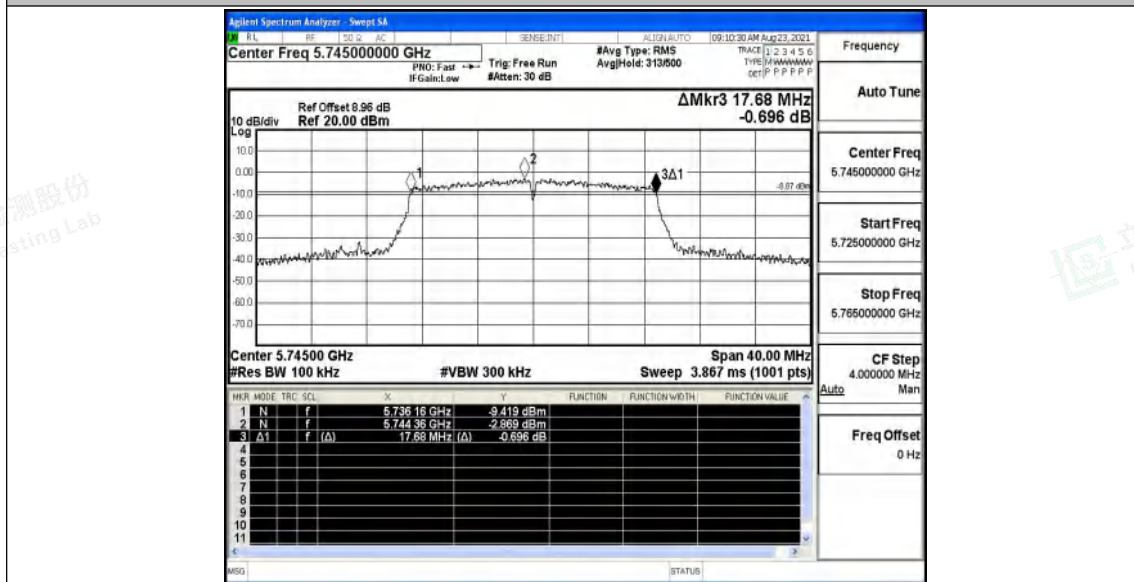
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11N20SISO_Ant1_5745



11N20SISO_Ant1_5785

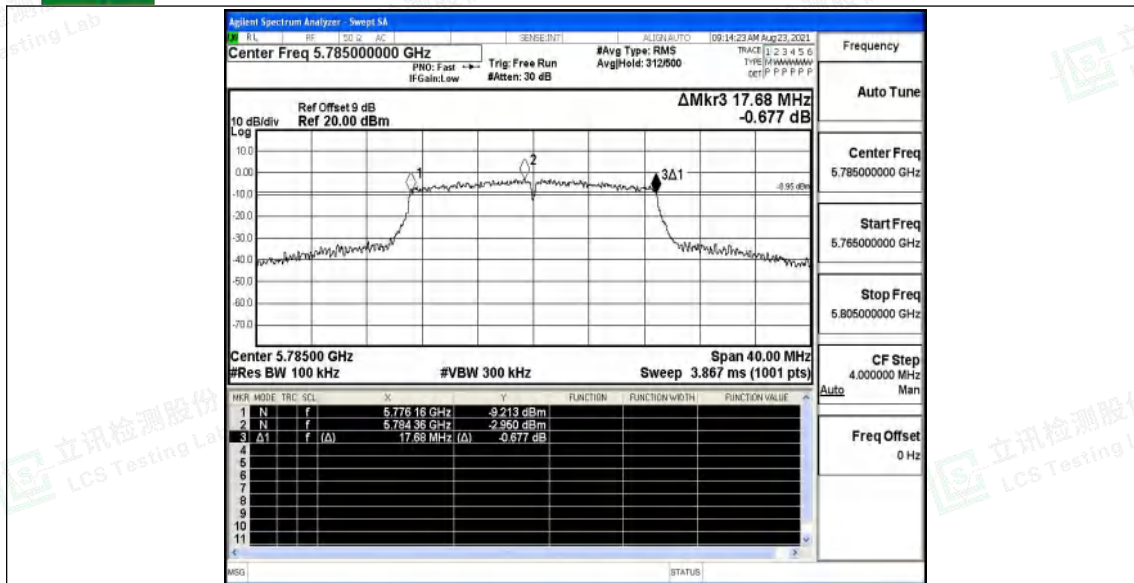


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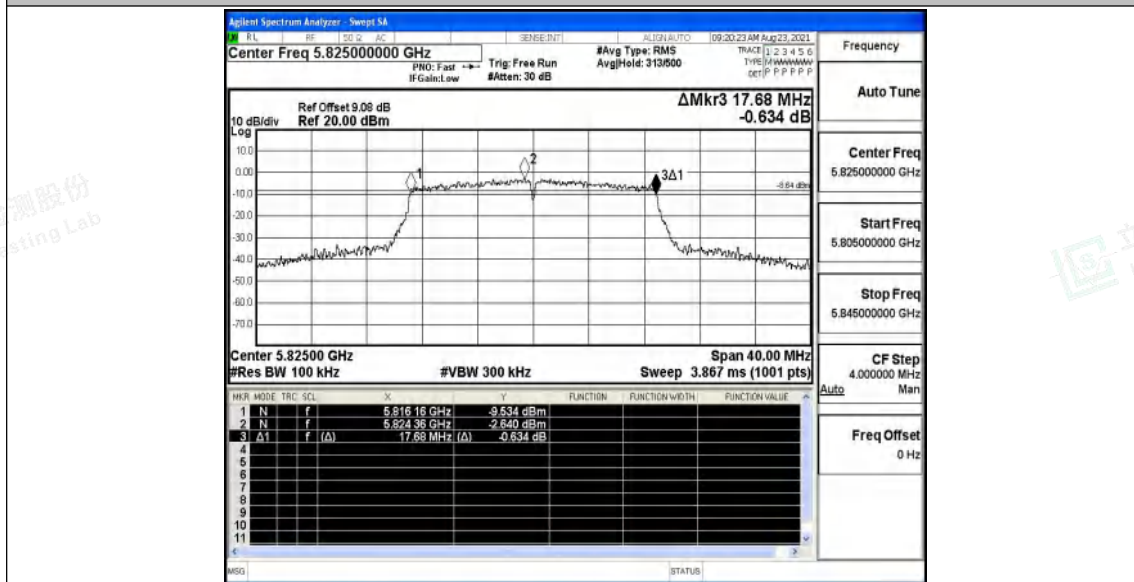
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11N20SISO_Ant1_5825



11N40SISO_Ant1_5755

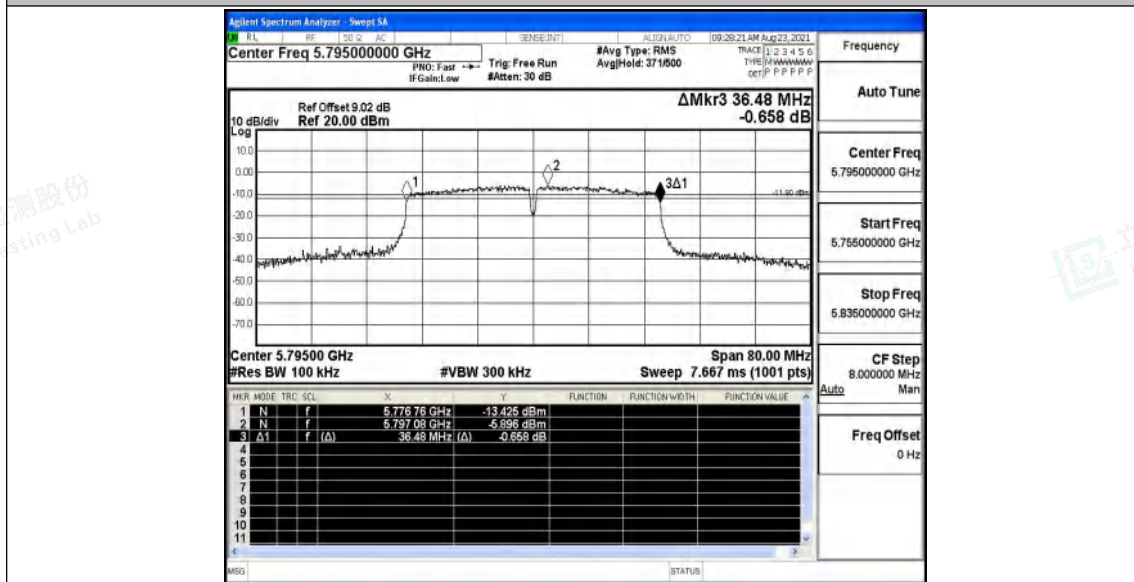
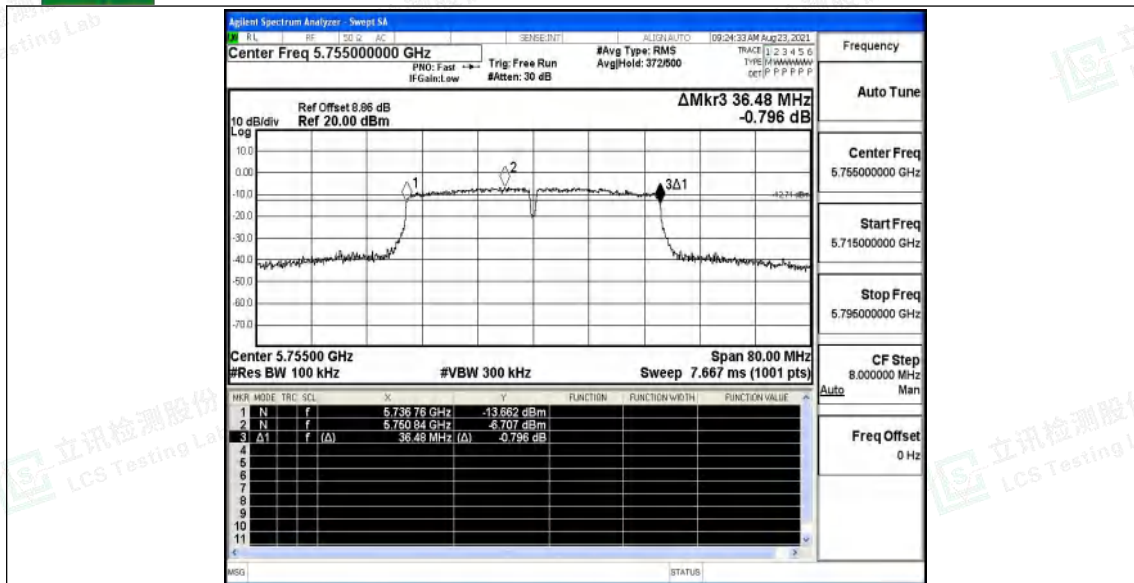


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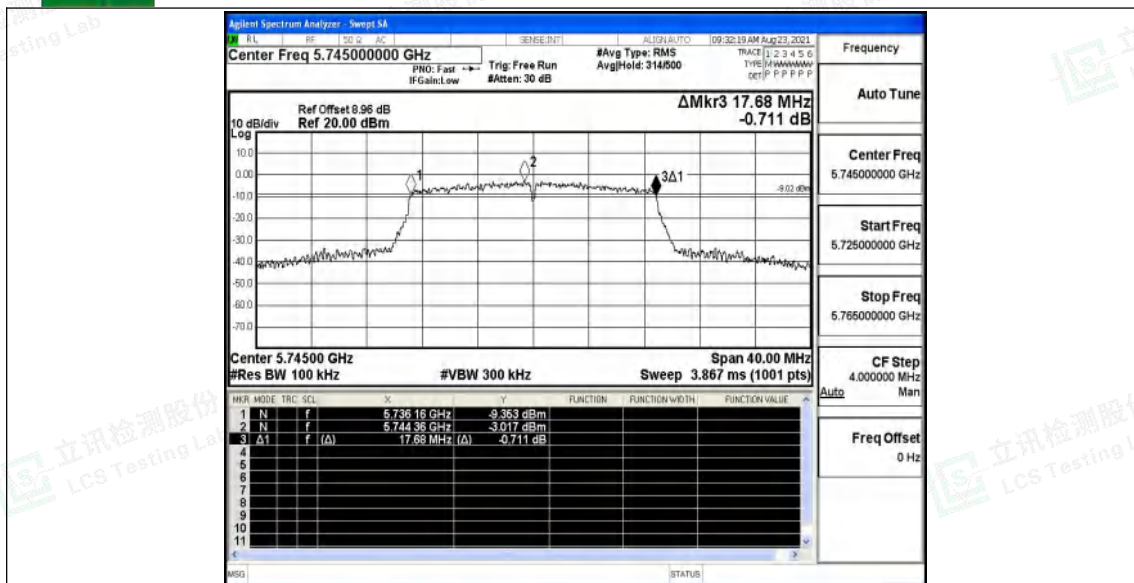


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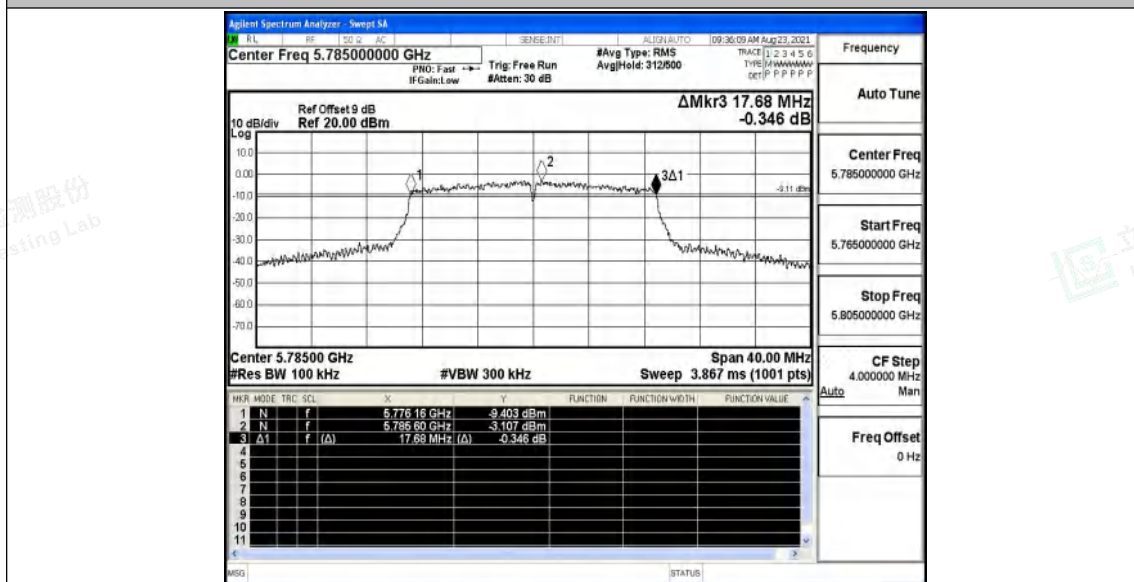
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11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825

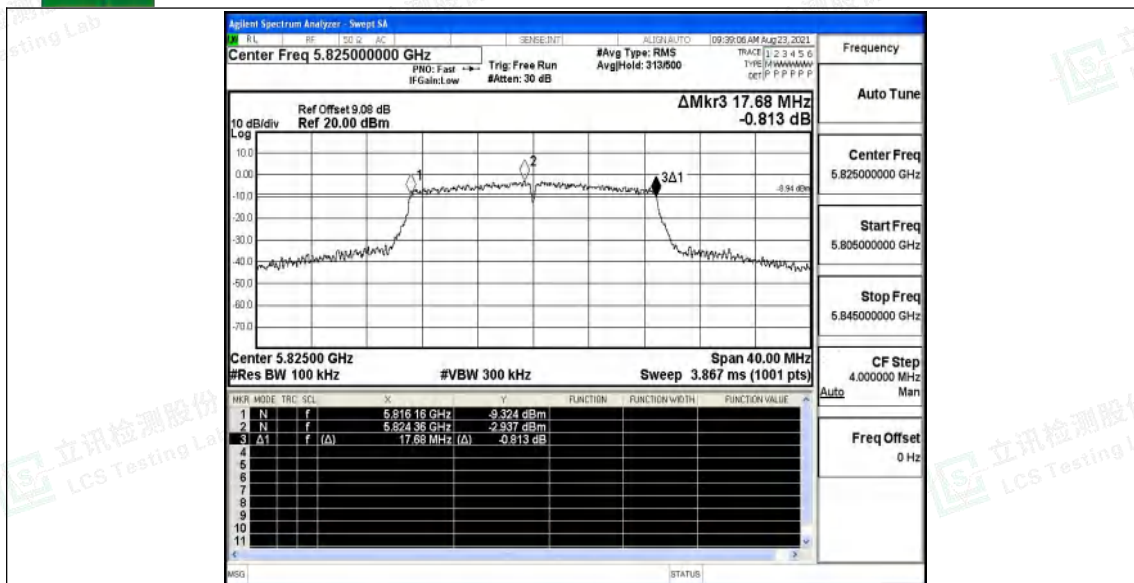


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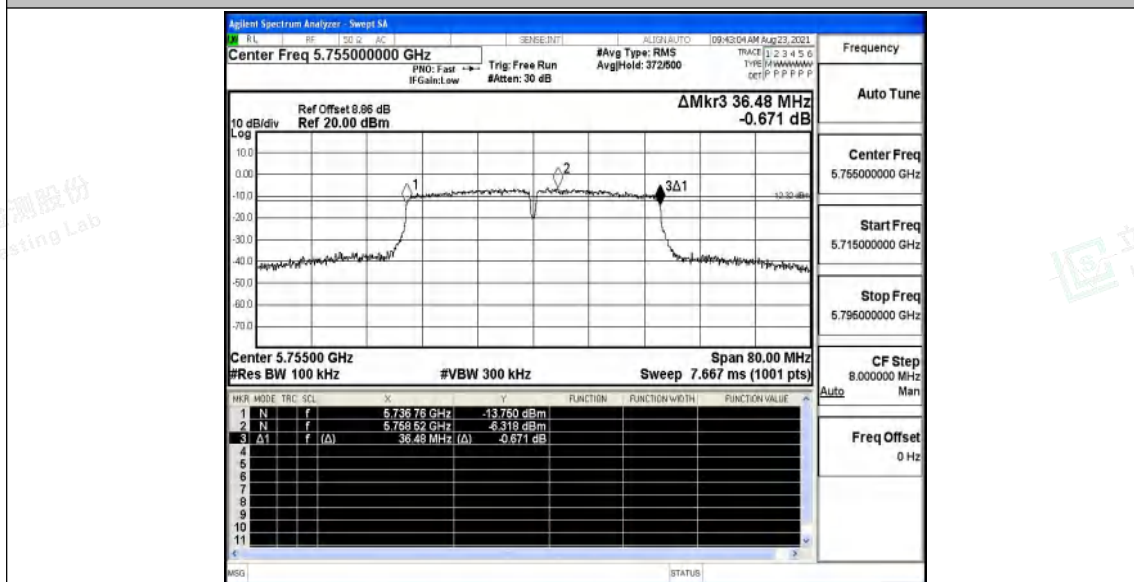
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11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

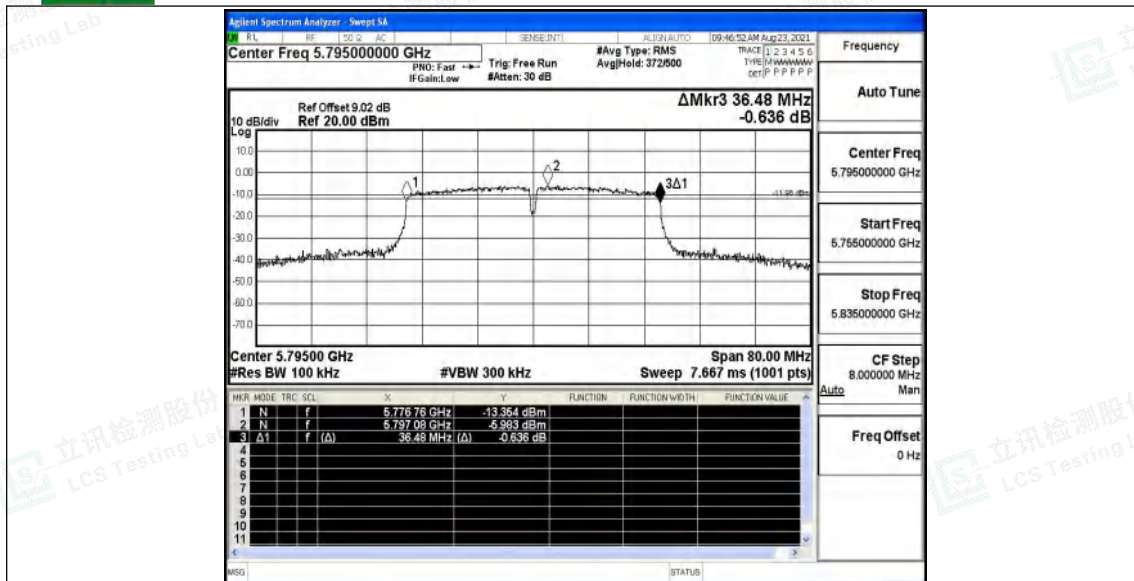


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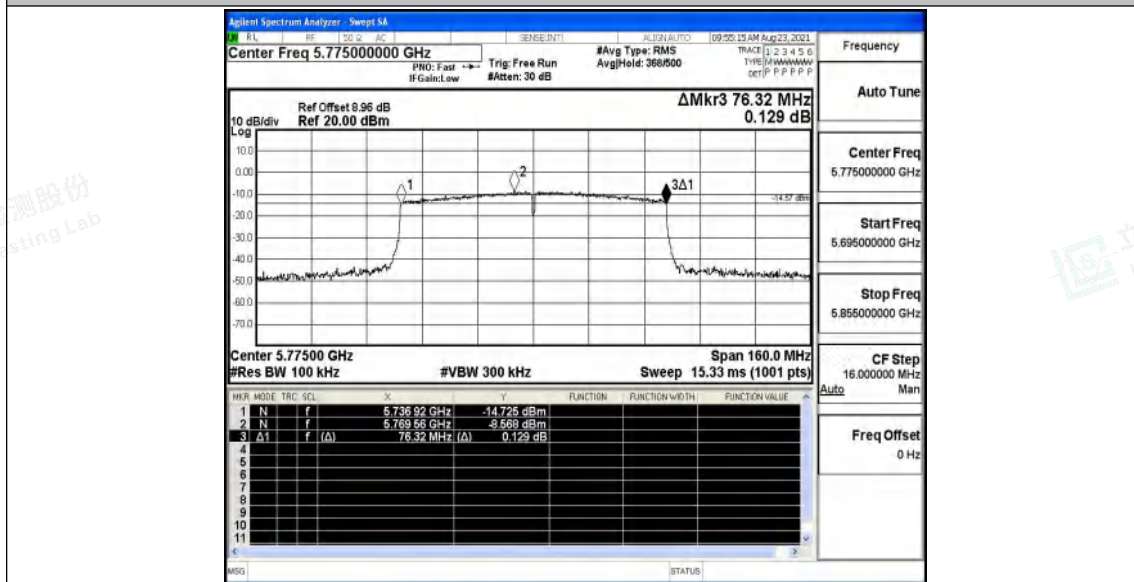
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11AC80SISO_Ant1_5775



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E.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5745	10.42	≤30	PASS
		5785	10.14	≤30	PASS
		5825	10.73	≤30	PASS
11N20SISO	Ant1	5745	10.11	≤30	PASS
		5785	10.48	≤30	PASS
		5825	10.46	≤30	PASS
11N40SISO	Ant1	5755	10.32	≤30	PASS
		5795	10.72	≤30	PASS
11AC20SISO	Ant1	5745	10.26	≤30	PASS
		5785	10.36	≤30	PASS
		5825	10.20	≤30	PASS
11AC40SISO	Ant1	5755	10.31	≤30	PASS
		5795	10.85	≤30	PASS
11AC80SISO	Ant1	5775	10.28	≤30	PASS

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



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E.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Measurement Result [dBm/MHz]	Total Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-2.70	-4.92	≤30	PASS
		5785	-2.66	-4.88	≤30	PASS
		5825	-2.37	-4.59	≤30	PASS
11N20SISO	Ant1	5745	-2.64	-4.86	≤30	PASS
		5785	-2.75	-4.97	≤30	PASS
		5825	-2.58	-4.80	≤30	PASS
11N40SISO	Ant1	5755	-6.42	-8.64	≤30	PASS
		5795	-6.03	-8.25	≤30	PASS
11AC20SISO	Ant1	5745	-2.88	-5.10	≤30	PASS
		5785	-2.64	-4.86	≤30	PASS
		5825	-2.54	-4.76	≤30	PASS
11AC40SISO	Ant1	5755	-6.49	-8.71	≤30	PASS
		5795	-6.07	-8.29	≤30	PASS
11AC80SISO	Ant1	5775	-9.13	-11.35	≤30	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.

3. Exchange rate of RBW = $10 \cdot \log_{10}(300\text{KHz} / \text{RBW at measurement}) \approx -2.22[\text{dB}]$

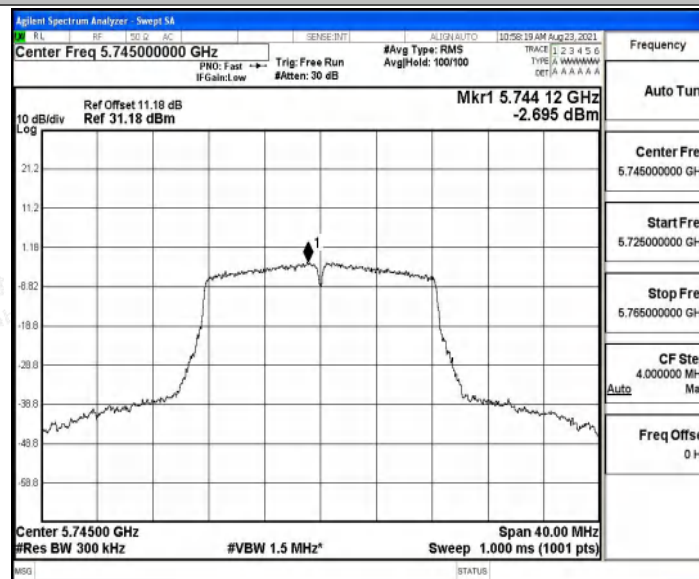
where Reference bandwidth = 500 KHz



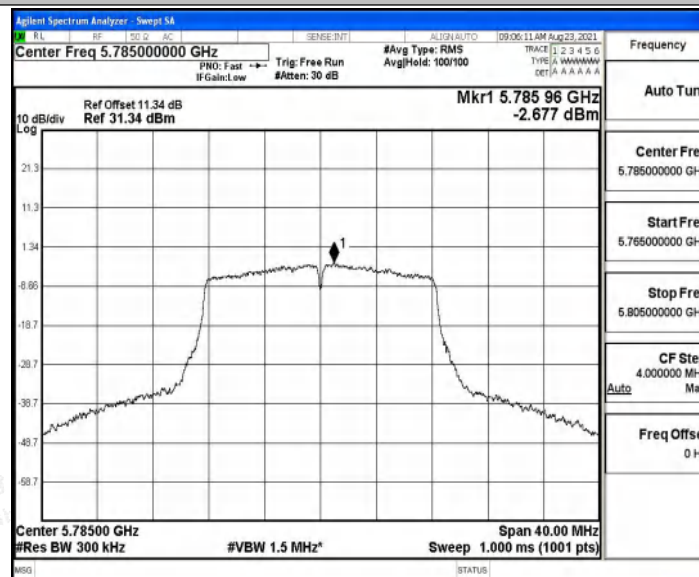


Test Graphs

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825

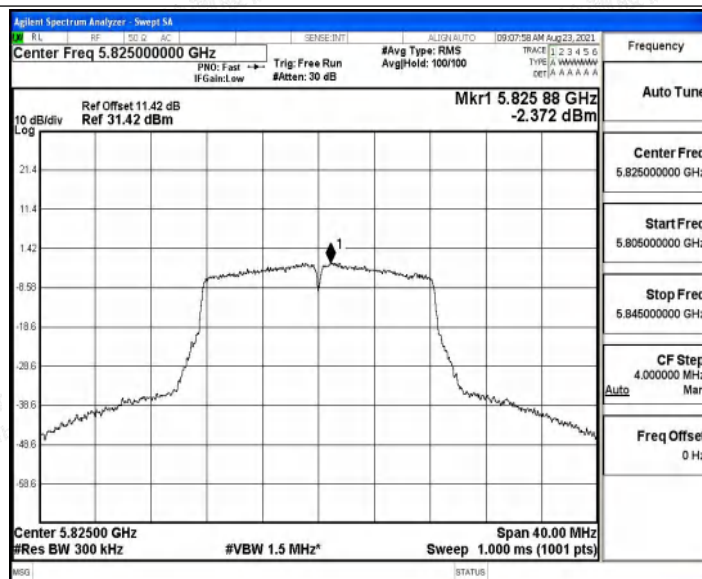


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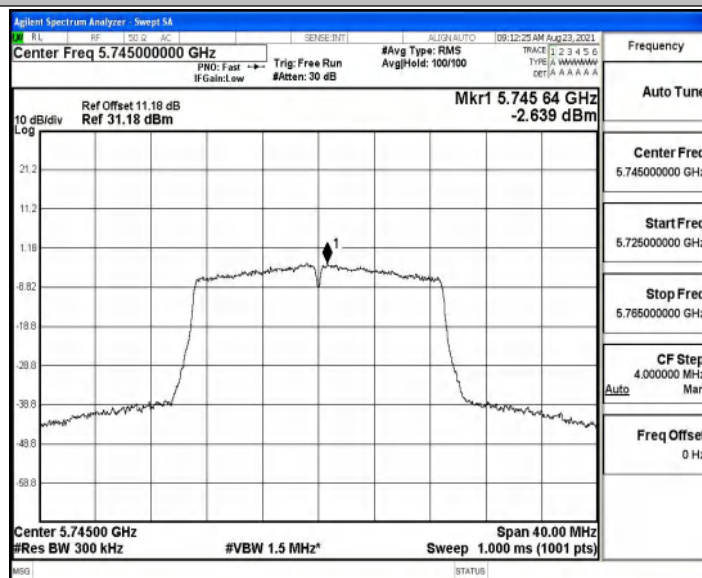
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11N20SISO_Ant1_5745



11N20SISO_Ant1_5785

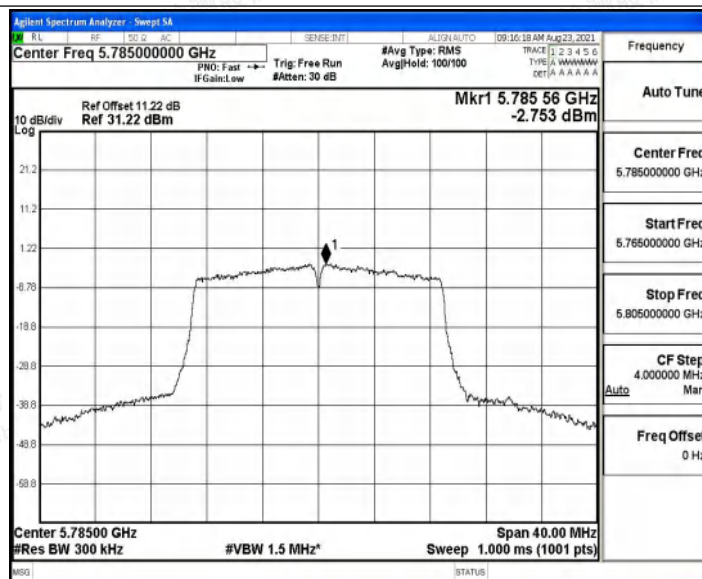


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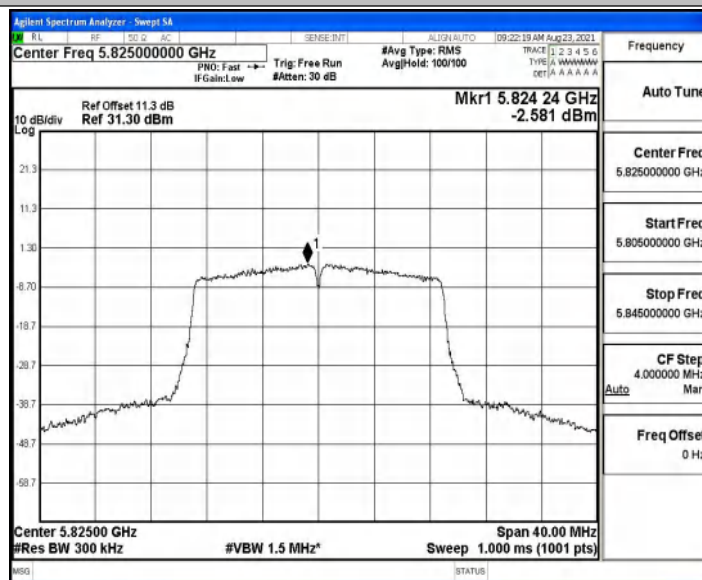
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11N20SISO_Ant1_5825



11N40SISO_Ant1_5755

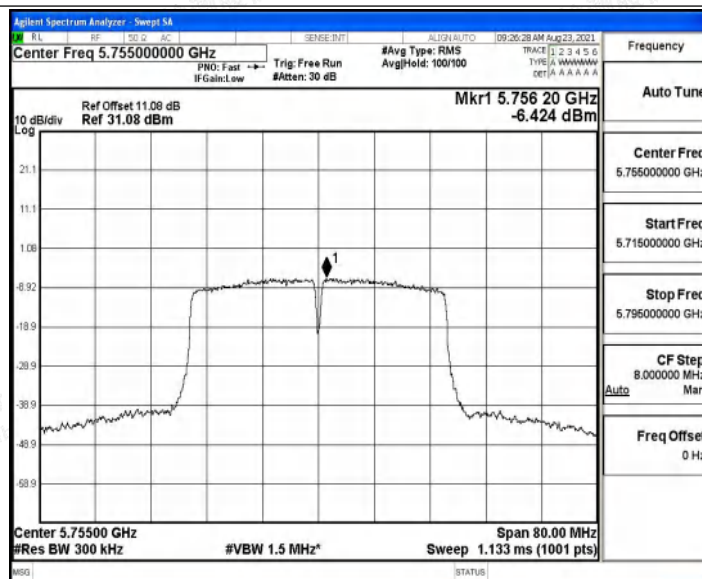


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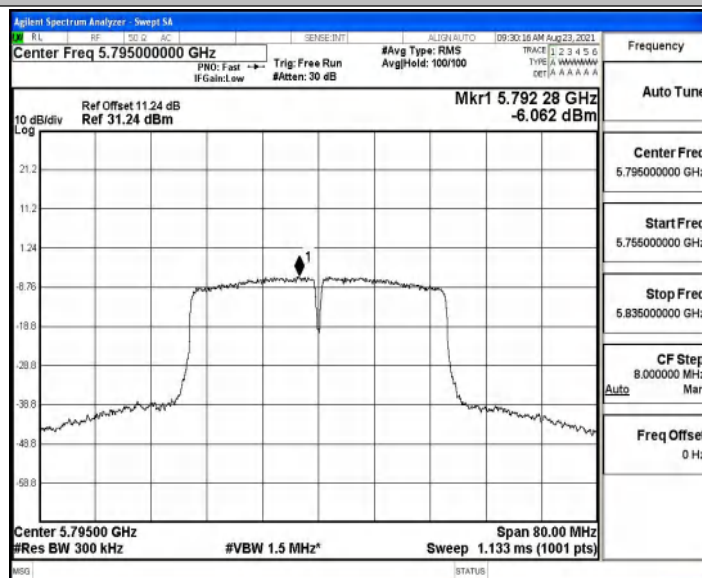
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11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

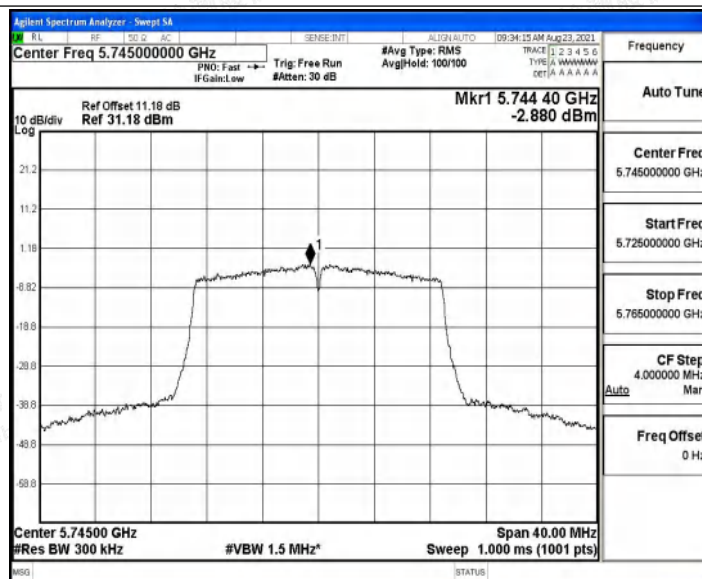


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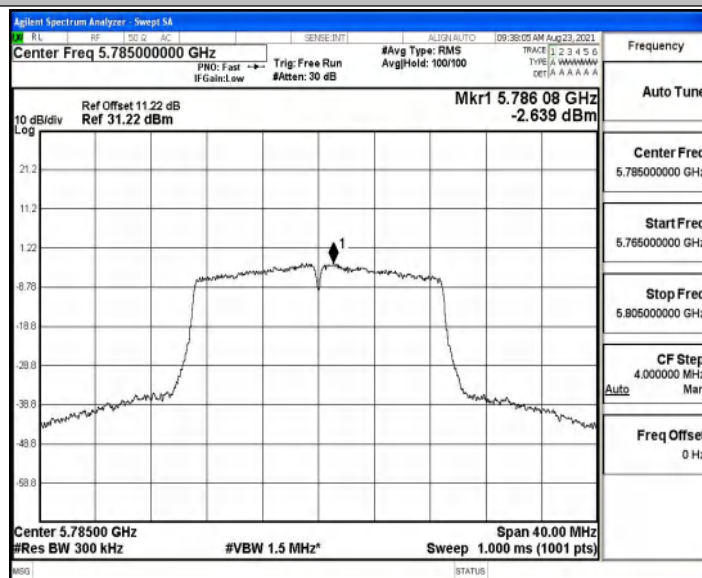
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11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825

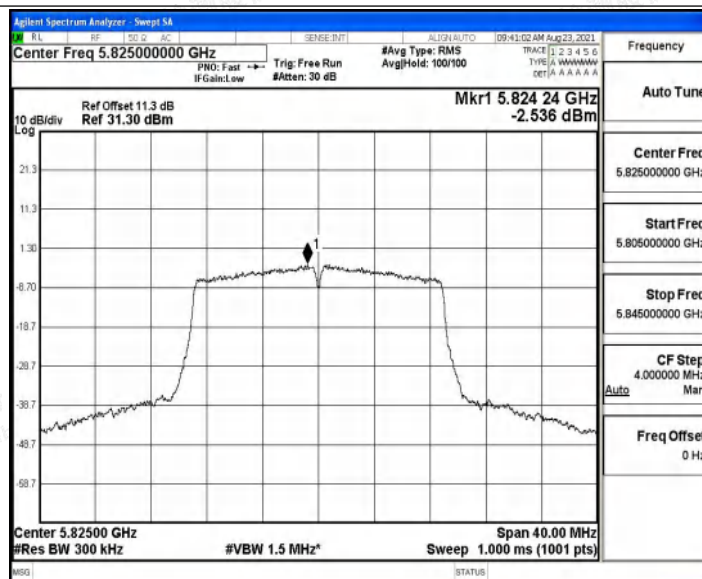


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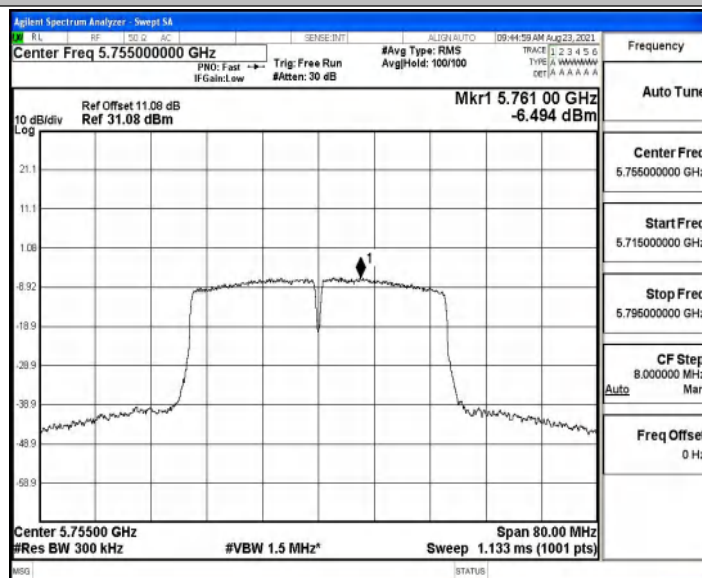
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11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

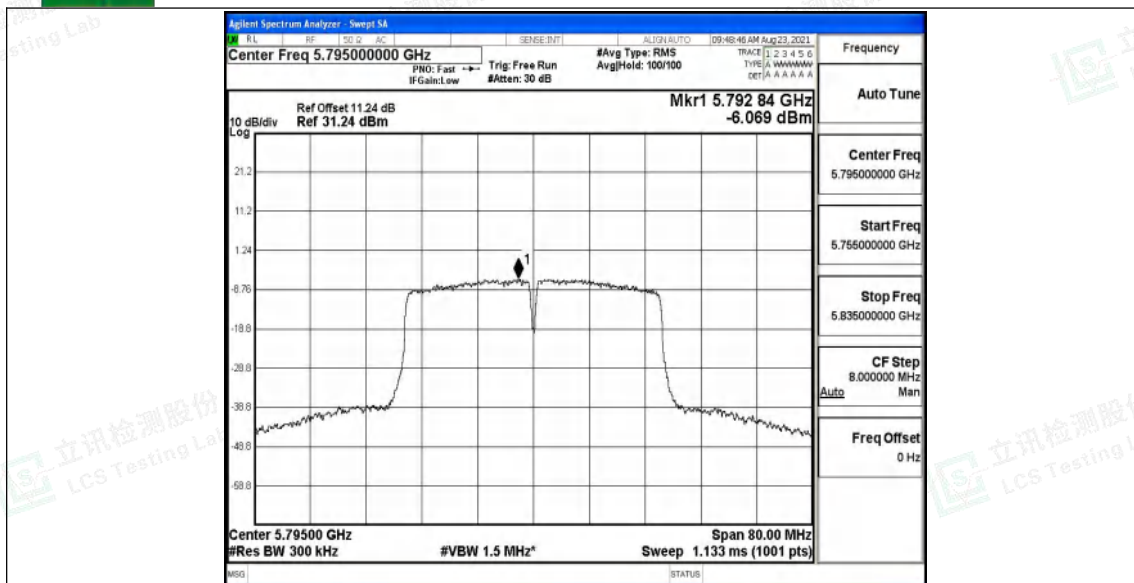


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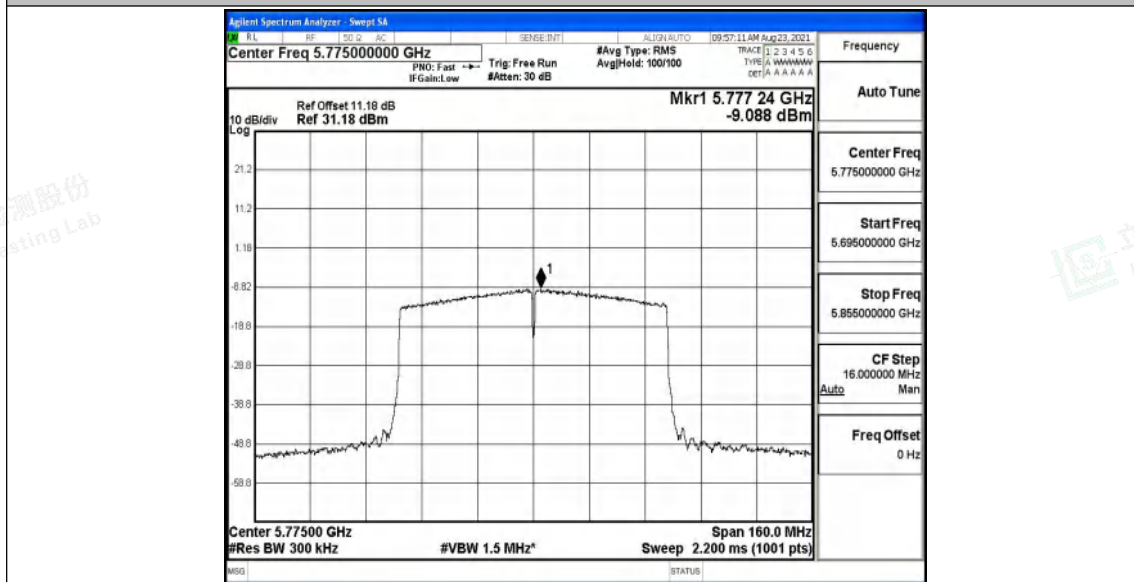
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11AC80SISO_Ant1_5775



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E.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-40.331	≤-27.00	---	---	PASS
				Peak	5700.000	-42.72	≤10.00	---	---	PASS
				Peak	5720.000	-39.33	≤15.60	---	---	PASS
				Peak	5725.000	-33.39	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-37.905	≤15.60	---	---	PASS
				Peak	5855.000	-37.35	≤27.00	---	---	PASS
				Peak	5875.000	-39.09	≤15.60	---	---	PASS
				Peak	5925.000	-39.63	≤10.00	---	---	PASS
11N20SIS O	Ant1	Low	5745	Peak	5650.000	-41.385	≤-27.00	---	---	PASS
				Peak	5700.000	-41.22	≤10.00	---	---	PASS
				Peak	5720.000	-38.79	≤15.60	---	---	PASS
				Peak	5725.000	-30.04	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-38.002	≤15.60	---	---	PASS
				Peak	5855.000	-40.58	≤27.00	---	---	PASS
				Peak	5875.000	-41.58	≤15.60	---	---	PASS
				Peak	5925.000	-41.57	≤10.00	---	---	PASS
11N40SIS O	Ant1	Low	5755	Peak	5650.000	-40.003	≤-27.00	---	---	PASS
				Peak	5700.000	-38.47	≤10.00	---	---	PASS
				Peak	5720.000	-33.96	≤15.60	---	---	PASS
				Peak	5725.000	-33.31	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-37.41	≤15.60	---	---	PASS
				Peak	5855.000	-41.61	≤27.00	---	---	PASS
				Peak	5875.000	-39.78	≤15.60	---	---	PASS
				Peak	5925.000	-42.16	≤10.00	---	---	PASS
11AC20SI SO	Ant1	Low	5745	Peak	5650.000	-42.55	≤-27.00	---	---	PASS
				Peak	5700.000	-41.64	≤10.00	---	---	PASS
				Peak	5720.000	-34.35	≤15.60	---	---	PASS
				Peak	5725.000	-34.18	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-38.816	≤15.60	---	---	PASS
				Peak	5855.000	-40.41	≤27.00	---	---	PASS
				Peak	5875.000	-42.05	≤15.60	---	---	PASS
				Peak	5925.000	-43.26	≤10.00	---	---	PASS
11AC40SI	Ant1	Low	5755	Peak	5650.000	-42.062	≤-27.00	---	---	PASS



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SO		High	5795	Peak	5700.000	-38.87	≤10.00	---	---	PASS
				Peak	5720.000	-31.49	≤15.60	---	---	PASS
				Peak	5725.000	-29.38	≤27.00	---	---	PASS
				Peak	5850.000	-37.321	≤15.60	---	---	PASS
				Peak	5855.000	-41.51	≤27.00	---	---	PASS
				Peak	5875.000	-42.91	≤15.60	---	---	PASS
				Peak	5925.000	-44.16	≤10.00	---	---	PASS
11AC80SI SO	Ant1	Low	5775	Peak	5650.000	-39.893	≤-27.00	---	---	PASS
				Peak	5700.000	-42.53	≤10.00	---	---	PASS
				Peak	5720.000	-40.74	≤15.60	---	---	PASS
				Peak	5725.000	-37.17	≤27.00	---	---	PASS
		High	5775	Peak	5850.000	-40.716	≤15.60	---	---	PASS
				Peak	5855.000	-39.63	≤27.00	---	---	PASS
				Peak	5875.000	-39.24	≤15.60	---	---	PASS
				Peak	5925.000	-41.45	≤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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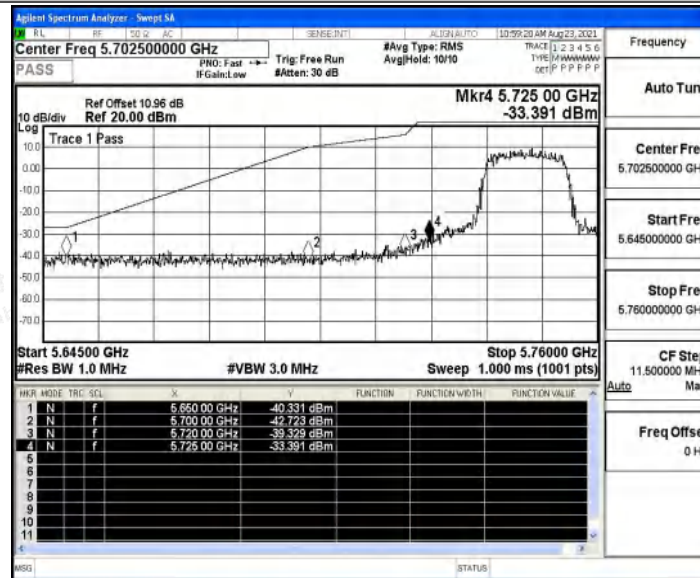
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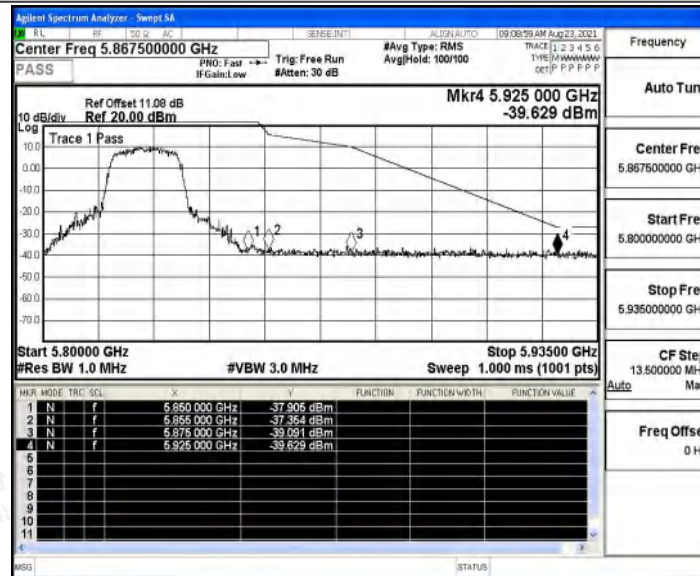


Test Graphs

11A_Ant1_Low_5745_Peak



11A_Ant1_High_5825_Peak



11N20SISO_Ant1_Low_5745_Peak

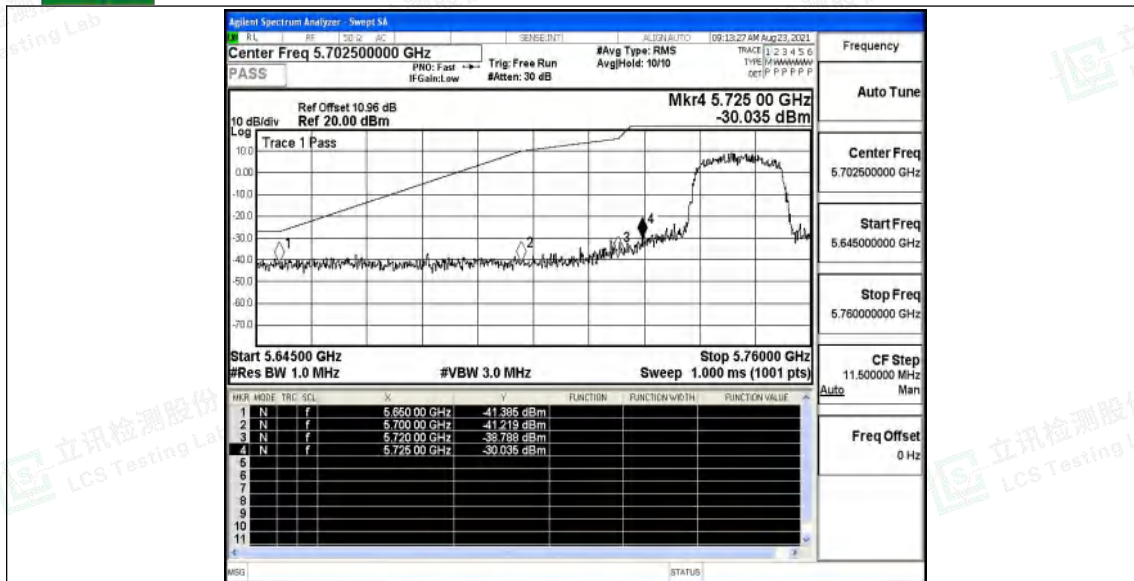


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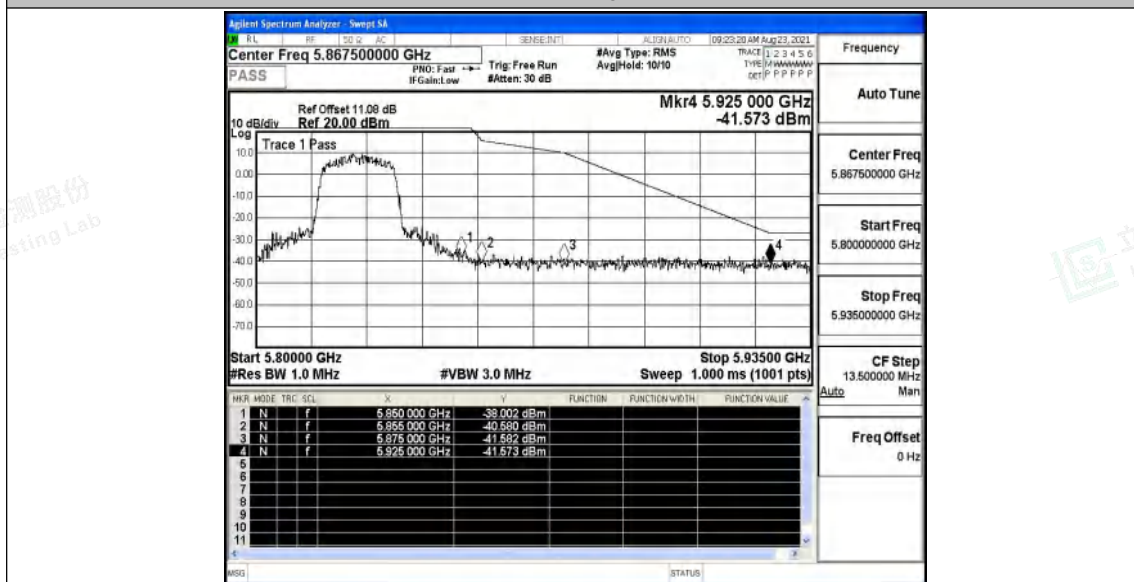
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11N20SISO_Ant1_High_5825_Peak



11N40SISO_Ant1_Low_5755_Peak

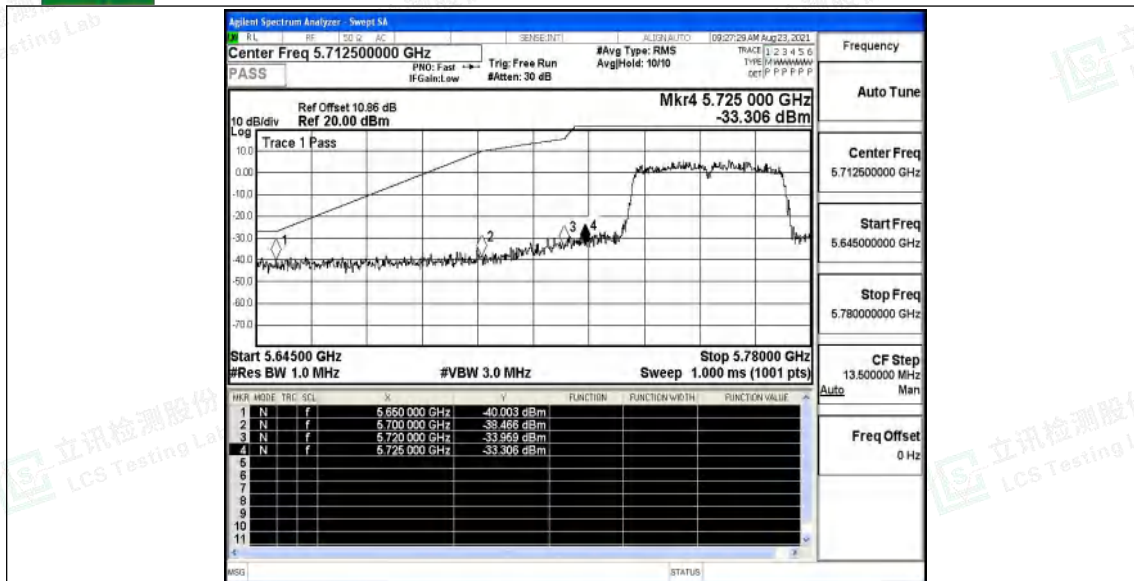


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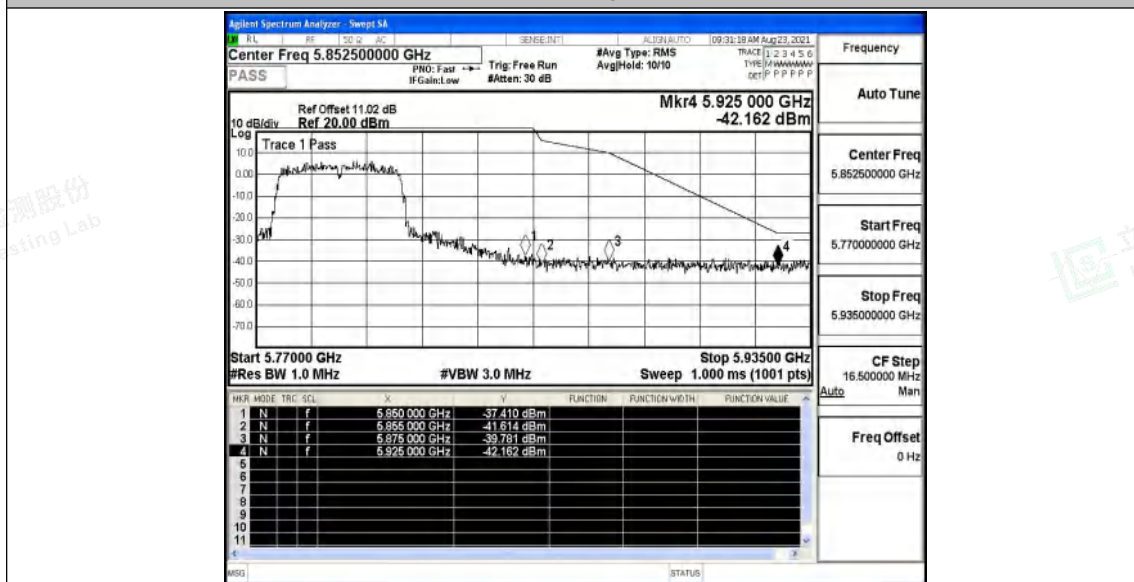
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_High_5795_Peak



11AC20SISO_Ant1_Low_5745_Peak

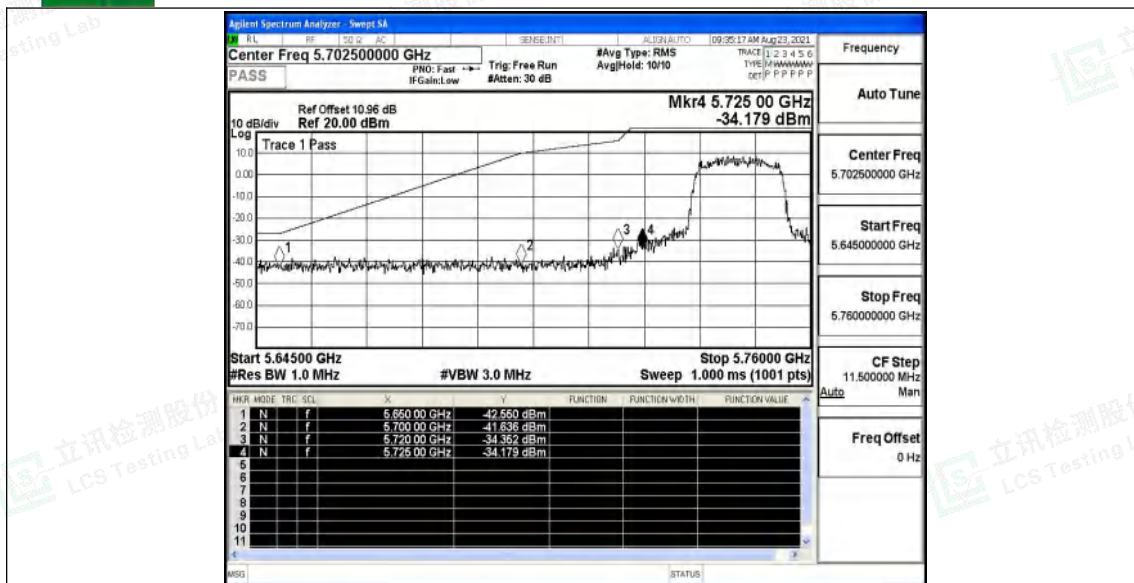


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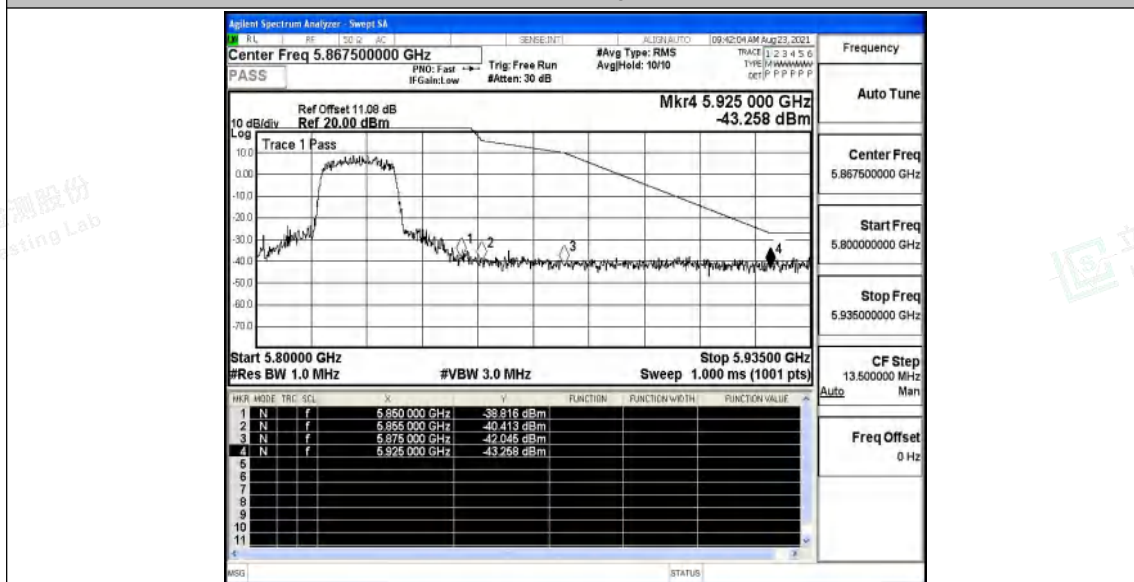
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC20SISO_Ant1_High_5825_Peak



11AC40SISO_Ant1_Low_5755_Peak

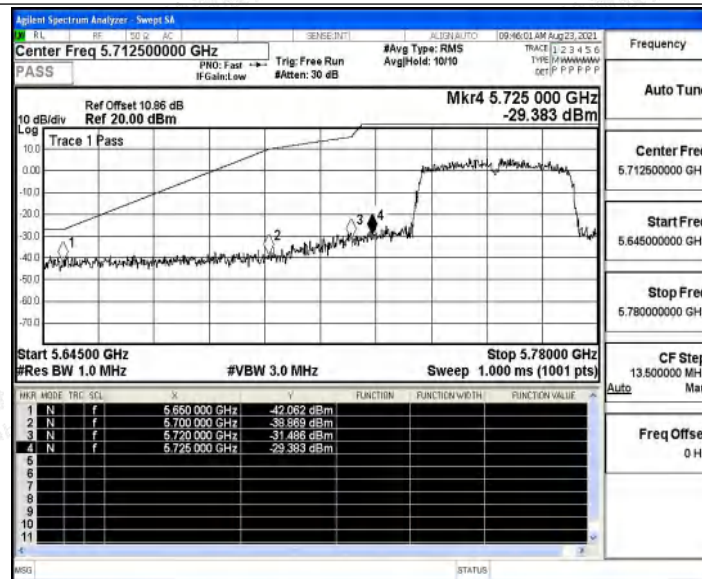


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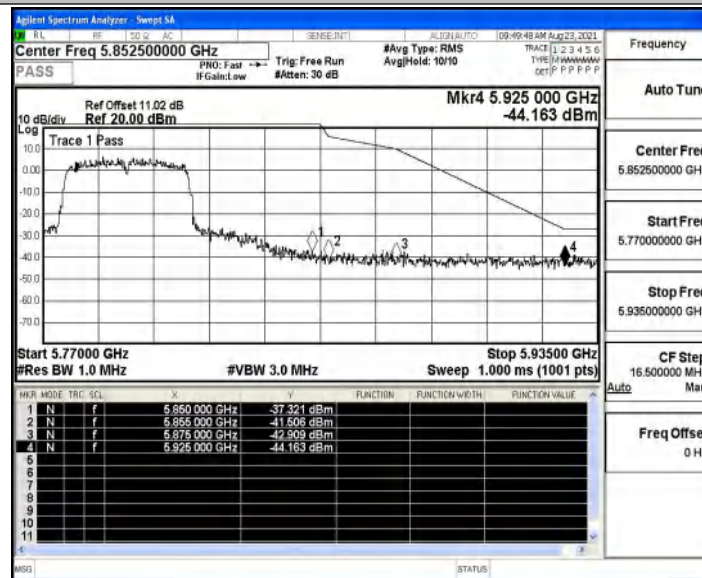
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC40SISO_Ant1_High_5795_Peak



11AC80SISO_Ant1_Low_5775_Peak

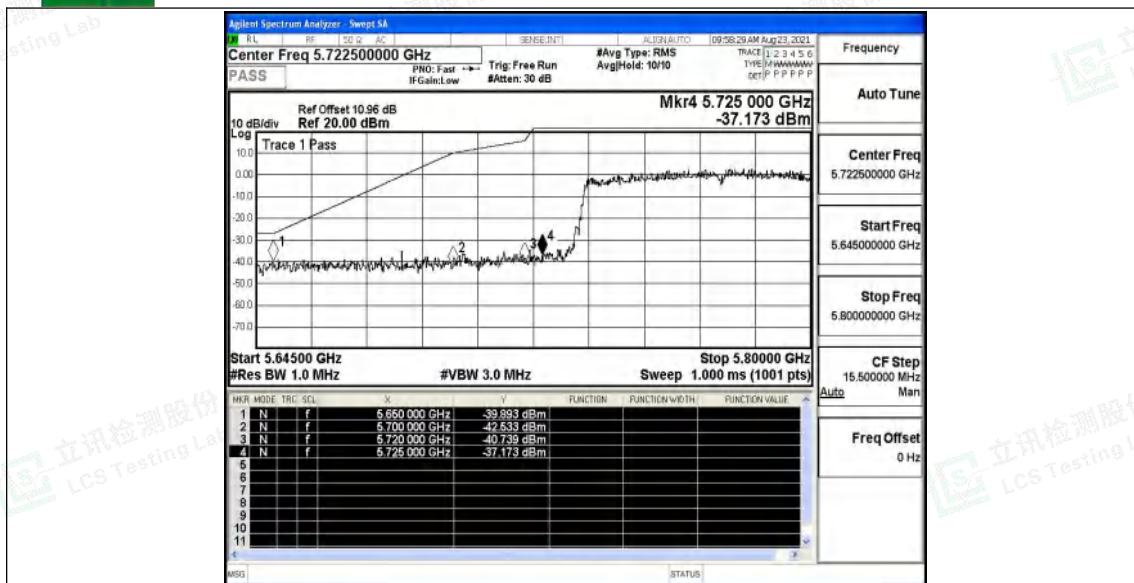


Shenzhen LCS Compliance Testing Laboratory Ltd.

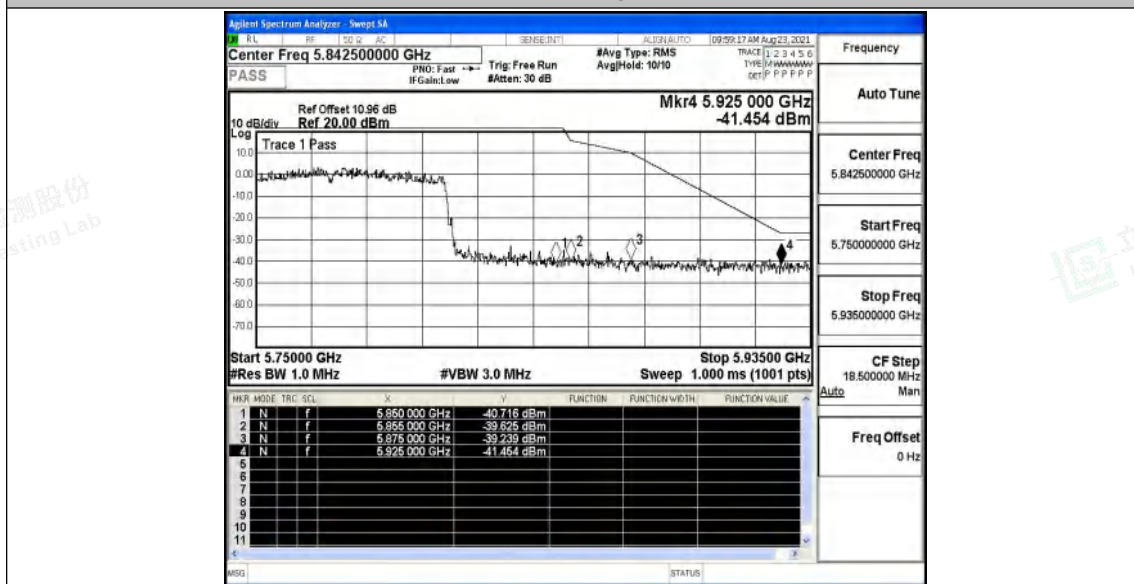
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC80SISO_Ant1_High_5775_Peak



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E.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5745	NV	NT	-4000	-0.696258	20	PASS
			LV	NT	-5000	-0.870322	20	PASS
			HV	NT	-6000	-1.044386	20	PASS
		5785	NV	NT	-8000	-1.382887	20	PASS
			LV	NT	-8000	-1.382887	20	PASS
			HV	NT	-8000	-1.382887	20	PASS
		5825	NV	NT	-9000	-1.545064	20	PASS
			LV	NT	-9000	-1.545064	20	PASS
			HV	NT	-9000	-1.545064	20	PASS
11N20SI SO	Ant1	5745	NV	NT	-9000	-1.56658	20	PASS
			LV	NT	-9000	-1.56658	20	PASS
			HV	NT	-9000	-1.56658	20	PASS
		5785	NV	NT	-10000	-1.728608	20	PASS
			LV	NT	-10000	-1.728608	20	PASS
			HV	NT	-10000	-1.728608	20	PASS
		5825	NV	NT	-10000	-1.716738	20	PASS
			LV	NT	-10000	-1.716738	20	PASS
			HV	NT	-10000	-1.716738	20	PASS
11N40SI SO	Ant1	5755	NV	NT	-10000	-1.737619	20	PASS
			LV	NT	-10000	-1.737619	20	PASS
			HV	NT	-10000	-1.737619	20	PASS
		5795	NV	NT	-10000	-1.725626	20	PASS
			LV	NT	-10000	-1.725626	20	PASS
			HV	NT	-10000	-1.725626	20	PASS
11AC20S ISO	Ant1	5745	NV	NT	-8000	-1.392515	20	PASS
			LV	NT	-9000	-1.56658	20	PASS
			HV	NT	-9000	-1.56658	20	PASS
		5785	NV	NT	-10000	-1.728608	20	PASS
			LV	NT	-10000	-1.728608	20	PASS
			HV	NT	-10000	-1.728608	20	PASS
		5825	NV	NT	-10000	-1.716738	20	PASS
			LV	NT	-10000	-1.716738	20	PASS
			HV	NT	-10000	-1.716738	20	PASS



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11AC40S ISO	Ant1	5755	NV	NT	-10000	-1.737619	20	PASS
			LV	NT	-10000	-1.737619	20	PASS
			HV	NT	-10000	-1.737619	20	PASS
		5795	NV	NT	-10000	-1.725626	20	PASS
			LV	NT	-10000	-1.725626	20	PASS
			HV	NT	-10000	-1.725626	20	PASS
11AC80S ISO	Ant1	5775	NV	NT	-4000	-0.692641	20	PASS
			LV	NT	-4000	-0.692641	20	PASS
			HV	NT	-5000	-0.865801	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5745	NV	-30	-6000	-1.044386	20	PASS
			NV	-20	-6000	-1.044386	20	PASS
			NV	-10	-7000	-1.218451	20	PASS
			NV	0	-7000	-1.218451	20	PASS
			NV	10	-7000	-1.218451	20	PASS
			NV	20	-7000	-1.218451	20	PASS
			NV	30	-8000	-1.392515	20	PASS
			NV	40	-8000	-1.392515	20	PASS
			NV	50	-8000	-1.392515	20	PASS
		5785	NV	-30	-8000	-1.382887	20	PASS
			NV	-20	-9000	-1.555748	20	PASS
			NV	-10	-9000	-1.555748	20	PASS
			NV	0	-9000	-1.555748	20	PASS
			NV	10	-9000	-1.555748	20	PASS
			NV	20	-9000	-1.555748	20	PASS
			NV	30	-9000	-1.555748	20	PASS
			NV	40	-9000	-1.555748	20	PASS
			NV	50	-9000	-1.555748	20	PASS
		5825	NV	-30	-9000	-1.545064	20	PASS
			NV	-20	-9000	-1.545064	20	PASS
			NV	-10	-10000	-1.716738	20	PASS
			NV	0	-9000	-1.545064	20	PASS
			NV	10	-10000	-1.716738	20	PASS
			NV	20	-9000	-1.545064	20	PASS
			NV	30	-10000	-1.716738	20	PASS
			NV	40	-10000	-1.716738	20	PASS
			NV	50	-10000	-1.716738	20	PASS



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11N20SI SO	Ant1	5745	NV	-30	-9000	-1.56658	20	PASS
			NV	-20	-9000	-1.56658	20	PASS
			NV	-10	-9000	-1.56658	20	PASS
			NV	0	-9000	-1.56658	20	PASS
			NV	10	-9000	-1.56658	20	PASS
			NV	20	-10000	-1.740644	20	PASS
			NV	30	-10000	-1.740644	20	PASS
			NV	40	-10000	-1.740644	20	PASS
			NV	50	-10000	-1.740644	20	PASS
		5785	NV	-30	-10000	-1.728608	20	PASS
			NV	-20	-10000	-1.728608	20	PASS
			NV	-10	-10000	-1.728608	20	PASS
			NV	0	-10000	-1.728608	20	PASS
			NV	10	-10000	-1.728608	20	PASS
			NV	20	-10000	-1.728608	20	PASS
			NV	30	-10000	-1.728608	20	PASS
			NV	40	-10000	-1.728608	20	PASS
			NV	50	-10000	-1.728608	20	PASS
		5825	NV	-30	-10000	-1.716738	20	PASS
			NV	-20	-10000	-1.716738	20	PASS
			NV	-10	-10000	-1.716738	20	PASS
			NV	0	-10000	-1.716738	20	PASS
			NV	10	-10000	-1.716738	20	PASS
			NV	20	-10000	-1.716738	20	PASS
			NV	30	-10000	-1.716738	20	PASS
			NV	40	-10000	-1.716738	20	PASS
			NV	50	-10000	-1.716738	20	PASS
11N40SI SO	Ant1	5755	NV	-30	-10000	-1.737619	20	PASS
			NV	-20	-10000	-1.737619	20	PASS
			NV	-10	-10000	-1.737619	20	PASS
			NV	0	-10000	-1.737619	20	PASS
			NV	10	-10000	-1.737619	20	PASS
			NV	20	-10000	-1.737619	20	PASS
			NV	30	-10000	-1.737619	20	PASS
			NV	40	-10000	-1.737619	20	PASS
			NV	50	-10000	-1.737619	20	PASS
		5795	NV	-30	-10000	-1.725626	20	PASS
			NV	-20	-10000	-1.725626	20	PASS
			NV	-10	-10000	-1.725626	20	PASS



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11AC20S ISO	Ant1		NV	0	-10000	-1.725626	20	PASS
			NV	10	-10000	-1.725626	20	PASS
			NV	20	-10000	-1.725626	20	PASS
			NV	30	-10000	-1.725626	20	PASS
			NV	40	-10000	-1.725626	20	PASS
			NV	50	-10000	-1.725626	20	PASS
		5745	NV	-30	-9000	-1.56658	20	PASS
			NV	-20	-9000	-1.56658	20	PASS
			NV	-10	-10000	-1.740644	20	PASS
			NV	0	-10000	-1.740644	20	PASS
			NV	10	-10000	-1.740644	20	PASS
			NV	20	-10000	-1.740644	20	PASS
			NV	30	-10000	-1.740644	20	PASS
			NV	40	-10000	-1.740644	20	PASS
			NV	50	-10000	-1.740644	20	PASS
		5785	NV	-30	-10000	-1.728608	20	PASS
			NV	-20	-10000	-1.728608	20	PASS
			NV	-10	-10000	-1.728608	20	PASS
			NV	0	-10000	-1.728608	20	PASS
			NV	10	-10000	-1.728608	20	PASS
			NV	20	-10000	-1.728608	20	PASS
			NV	30	-10000	-1.728608	20	PASS
			NV	40	-10000	-1.728608	20	PASS
			NV	50	-10000	-1.728608	20	PASS
		5825	NV	-30	-10000	-1.716738	20	PASS
			NV	-20	-10000	-1.716738	20	PASS
			NV	-10	-10000	-1.716738	20	PASS
			NV	0	-10000	-1.716738	20	PASS
			NV	10	-10000	-1.716738	20	PASS
			NV	20	-10000	-1.716738	20	PASS
			NV	30	-10000	-1.716738	20	PASS
			NV	40	-10000	-1.716738	20	PASS
			NV	50	-10000	-1.716738	20	PASS
11AC40S ISO	Ant1	5755	NV	-30	-10000	-1.737619	20	PASS
			NV	-20	-10000	-1.737619	20	PASS
			NV	-10	-10000	-1.737619	20	PASS
			NV	0	-10000	-1.737619	20	PASS
			NV	10	-10000	-1.737619	20	PASS
			NV	20	-10000	-1.737619	20	PASS



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11AC80S ISO	Ant1		NV	30	-10000	-1.737619	20	PASS
			NV	40	-10000	-1.737619	20	PASS
			NV	50	-10000	-1.737619	20	PASS
		5795	NV	-30	-10000	-1.725626	20	PASS
			NV	-20	-10000	-1.725626	20	PASS
			NV	-10	-10000	-1.725626	20	PASS
			NV	0	-10000	-1.725626	20	PASS
			NV	10	-10000	-1.725626	20	PASS
			NV	20	-10000	-1.725626	20	PASS
			NV	30	-10000	-1.725626	20	PASS
			NV	40	-10000	-1.725626	20	PASS
			NV	50	-10000	-1.725626	20	PASS
		5775	NV	-30	-4000	-0.692641	20	PASS
			NV	-20	-5000	-0.865801	20	PASS
			NV	-10	-4000	-0.692641	20	PASS
			NV	0	-5000	-0.865801	20	PASS
			NV	10	-5000	-0.865801	20	PASS
			NV	20	-5000	-0.865801	20	PASS
			NV	30	-5000	-0.865801	20	PASS
			NV	40	-5000	-0.865801	20	PASS
			NV	50	-5000	-0.865801	20	PASS



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E.6 Duty Cycle

Test Result

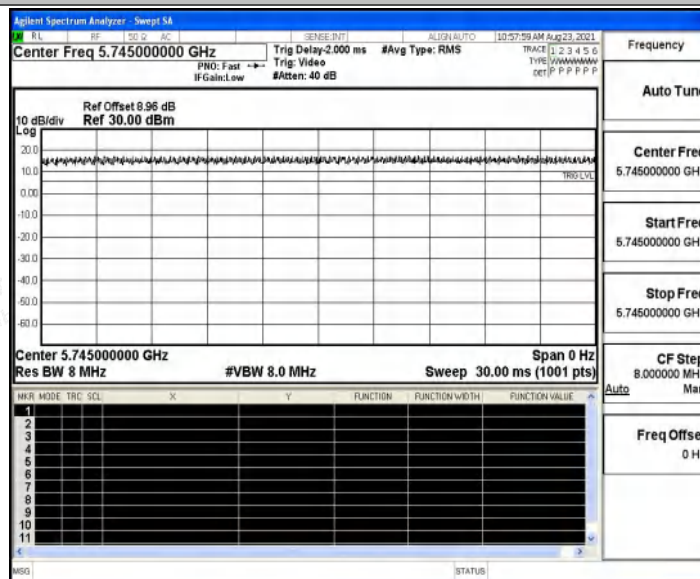
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5745	30.00	30.00	100.00	---	PASS
		5785	30.00	30.00	100.00	---	PASS
		5825	30.00	30.00	100.00	---	PASS
11N20SISO	Ant1	5745	30.00	30.00	100.00	---	PASS
		5785	30.00	30.00	100.00	---	PASS
		5825	30.00	30.00	100.00	---	PASS
11N40SISO	Ant1	5755	30.00	30.00	100.00	---	PASS
		5795	30.00	30.00	100.00	---	PASS
11AC20SISO	Ant1	5745	30.00	30.00	100.00	---	PASS
		5785	30.00	30.00	100.00	---	PASS
		5825	30.00	30.00	100.00	---	PASS
11AC40SISO	Ant1	5755	30.00	30.00	100.00	---	PASS
		5795	30.00	30.00	100.00	---	PASS
11AC80SISO	Ant1	5775	30.00	30.00	100.00	---	PASS



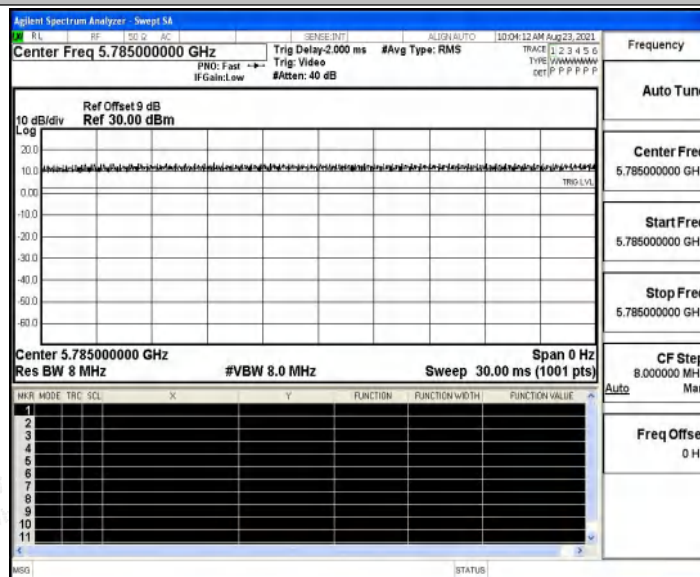


Test Graphs

11A_Ant1_5745

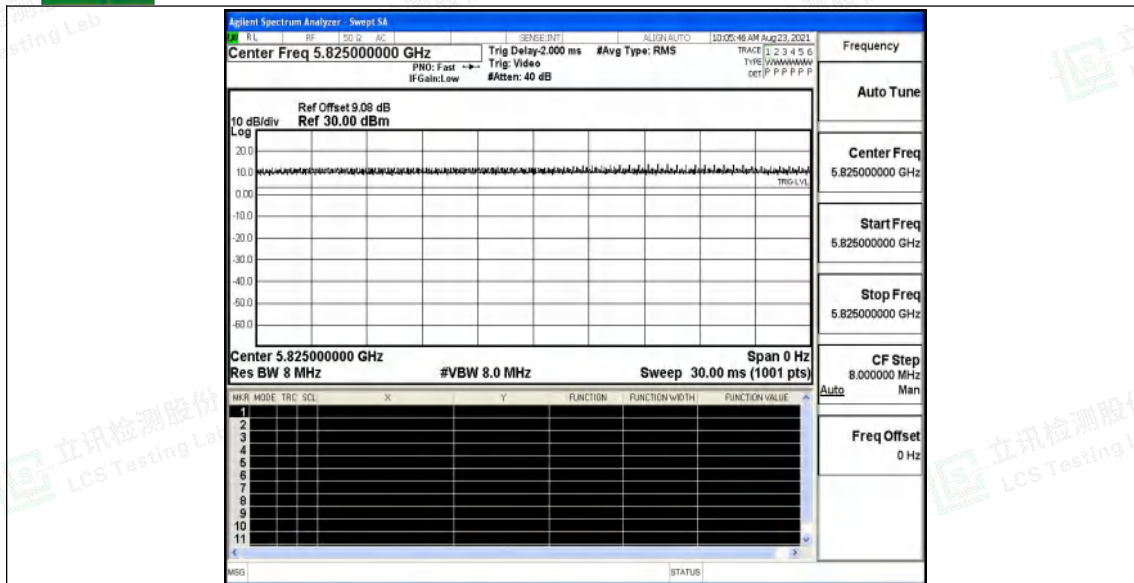


11A_Ant1_5785

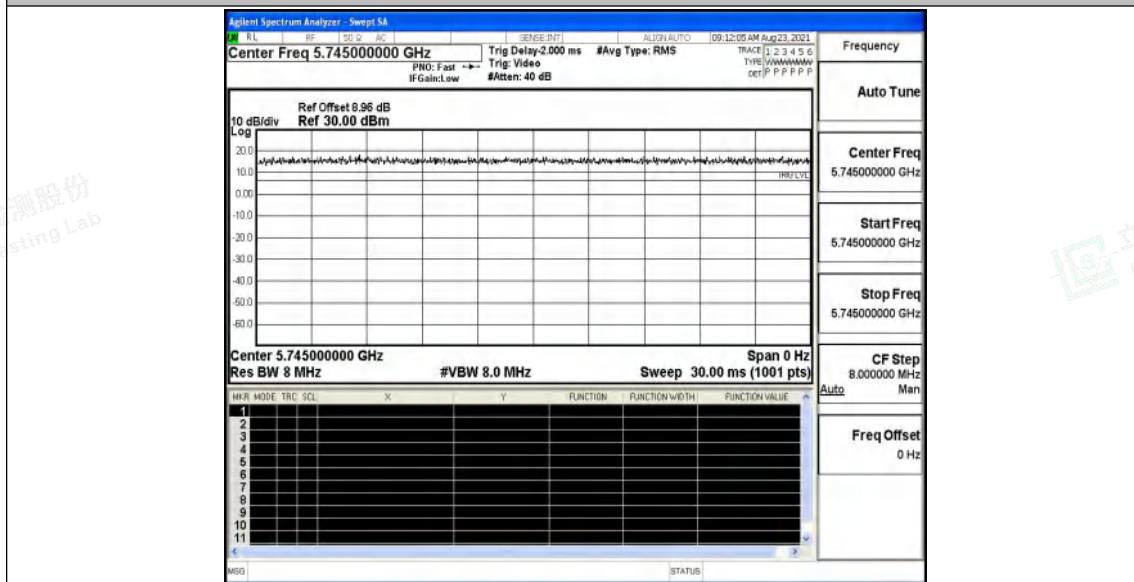


11A_Ant1_5825





11N20SISO_Ant1_5745



11N20SISO_Ant1_5785

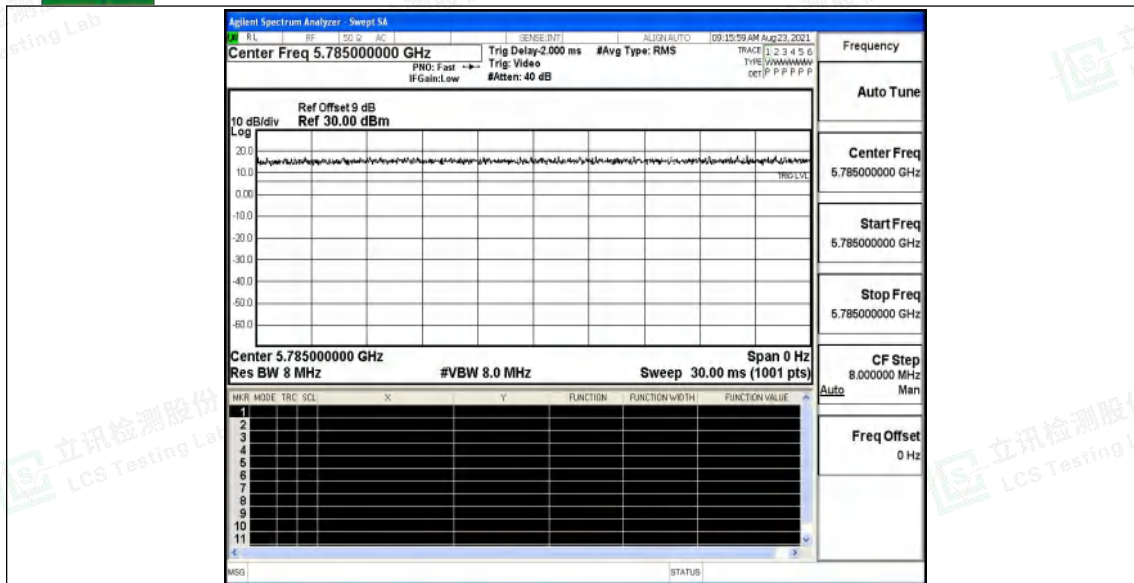


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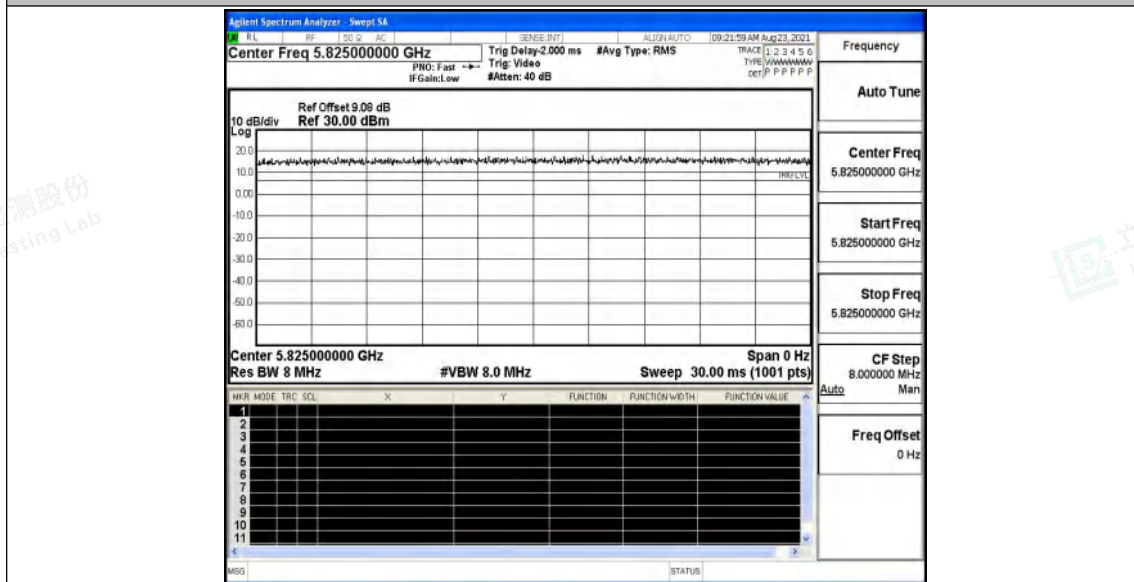
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11N20SISO_Ant1_5825



11N40SISO_Ant1_5755

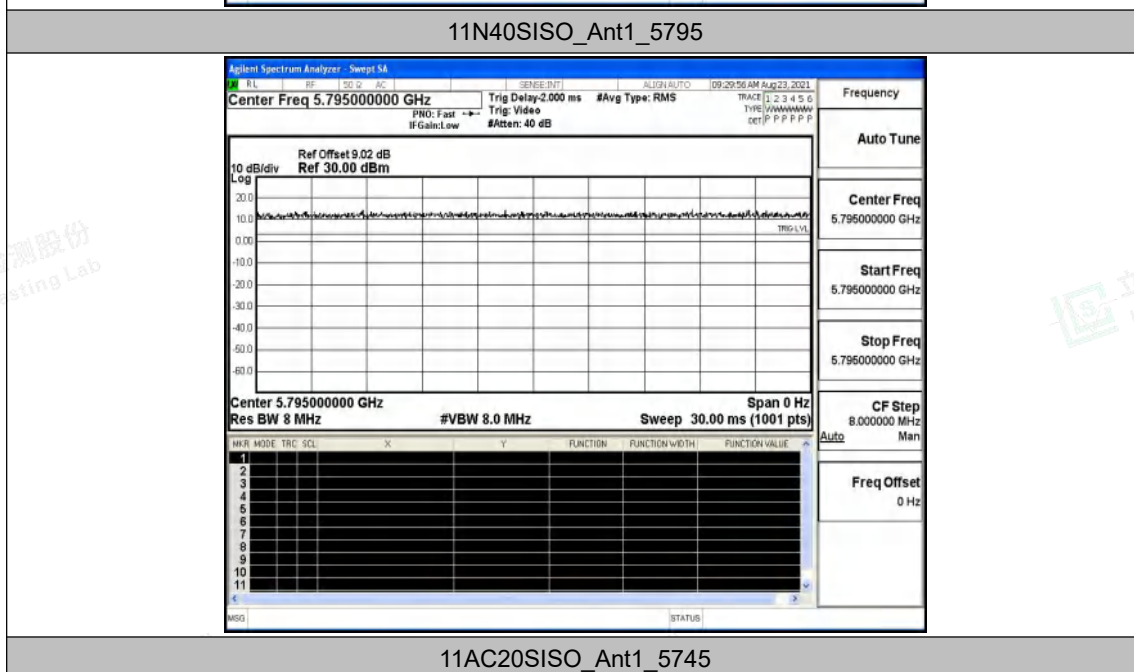


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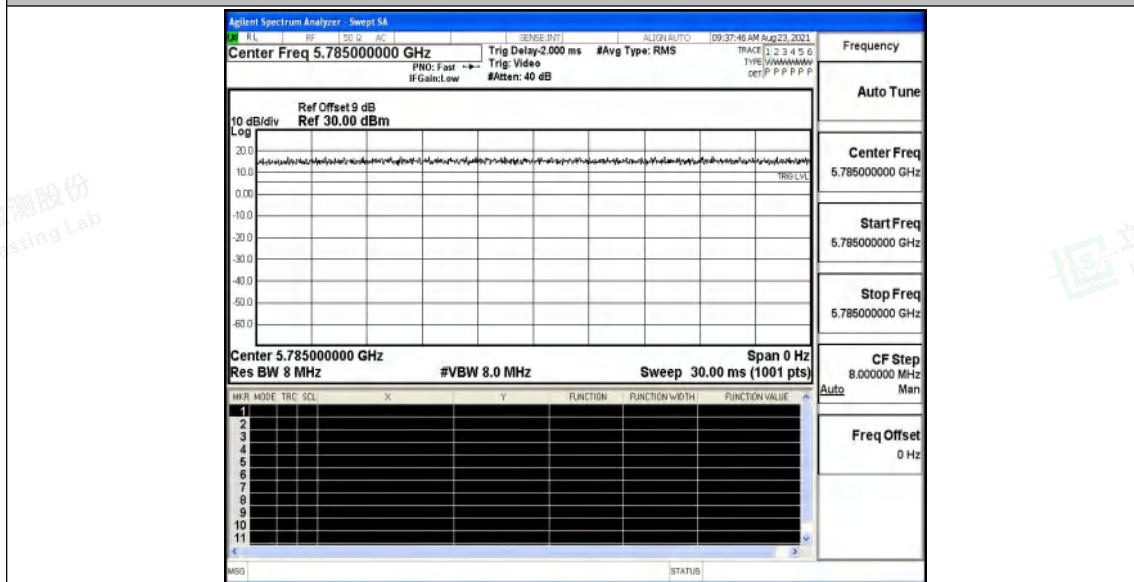
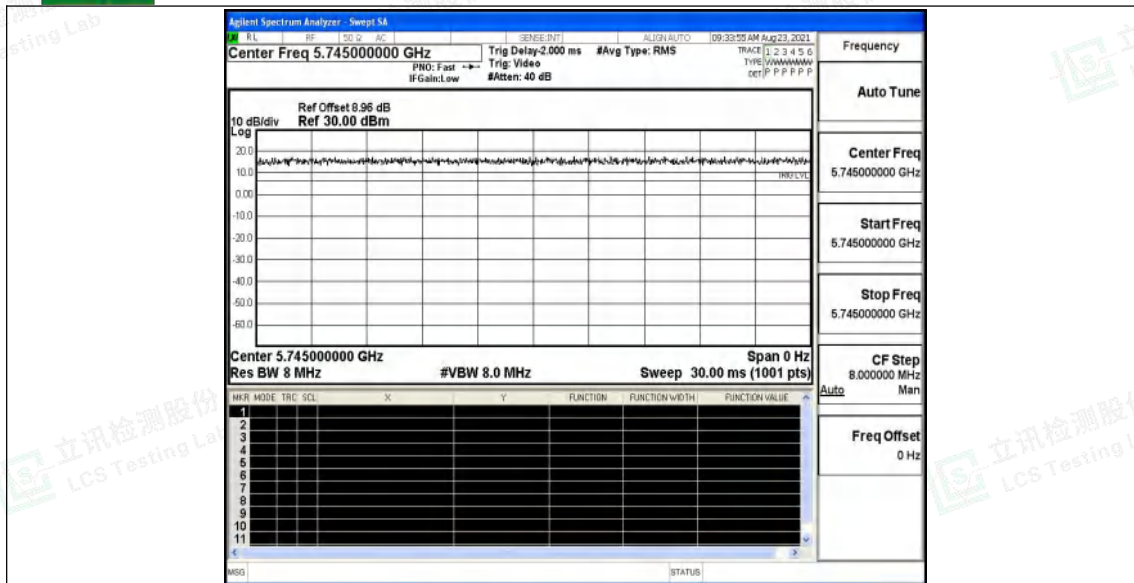


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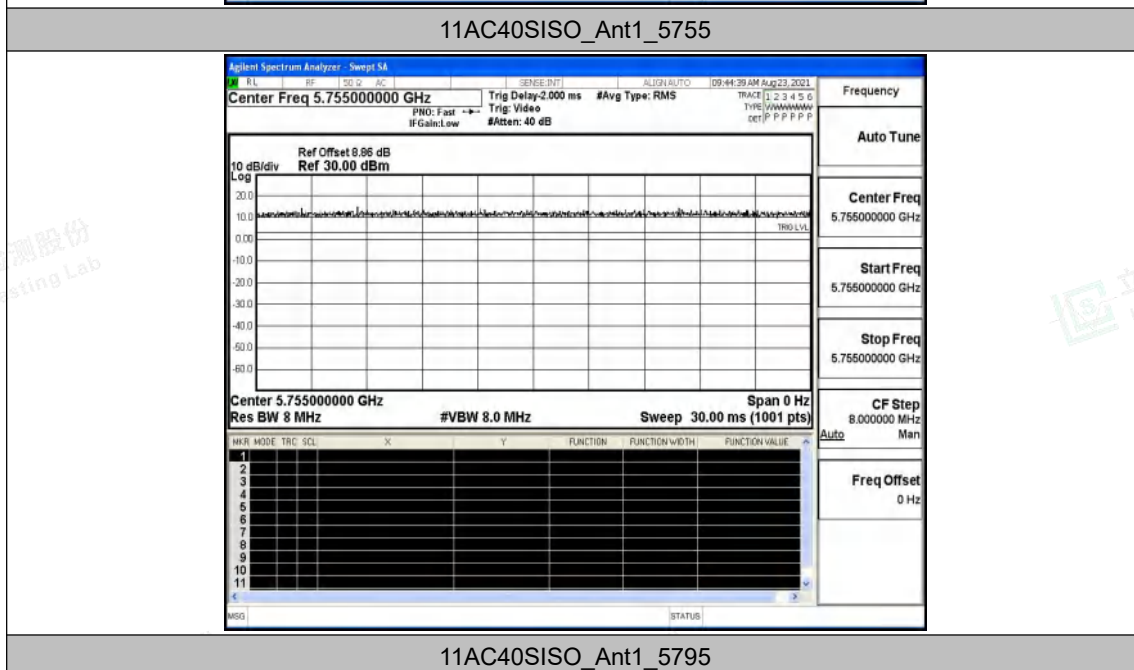
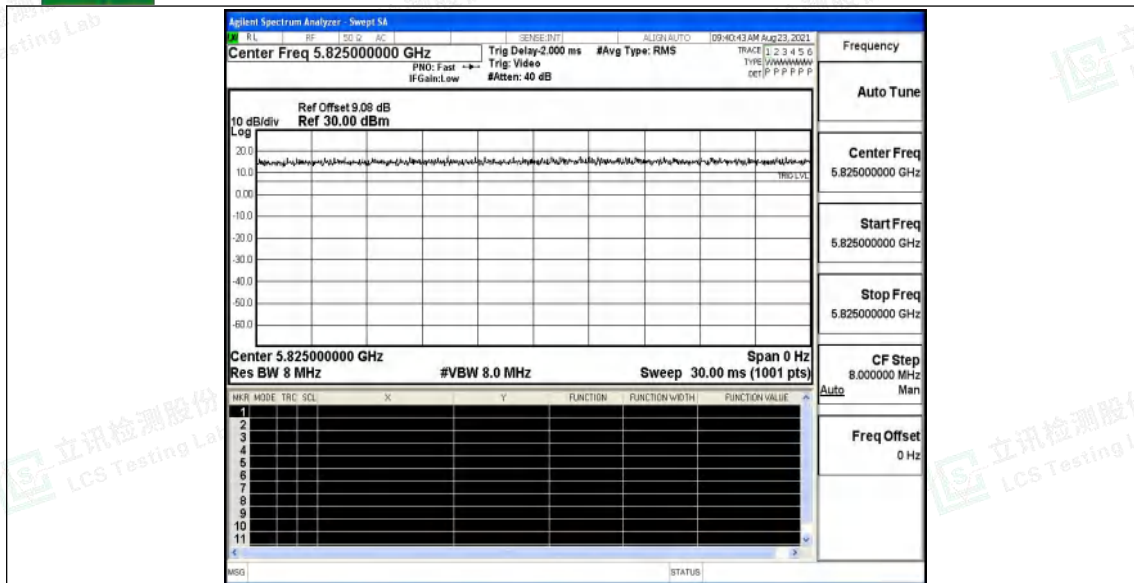


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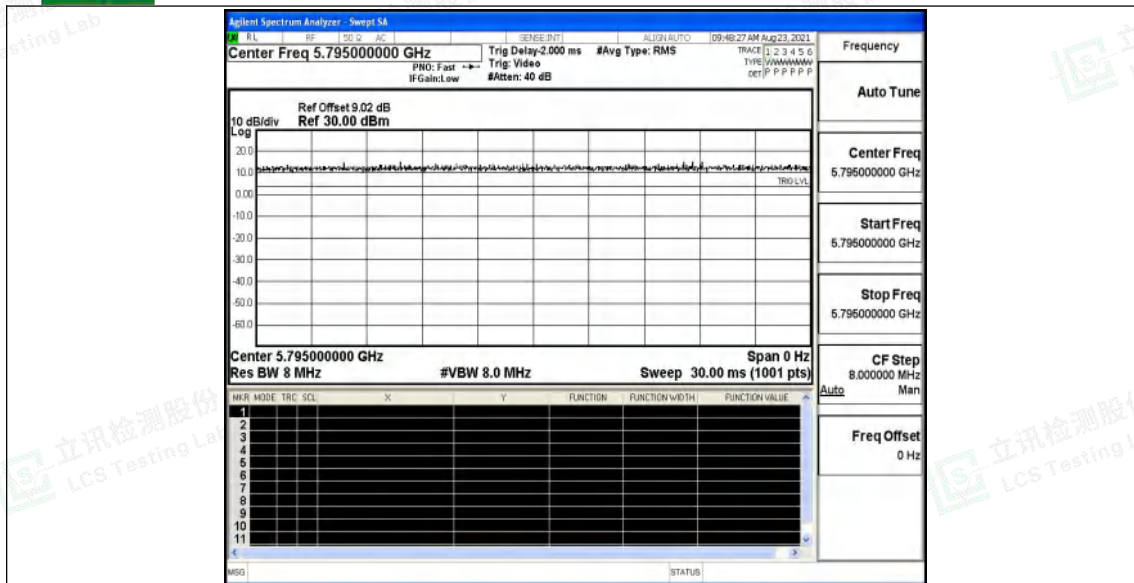


Shenzhen LCS Compliance Testing Laboratory Ltd.

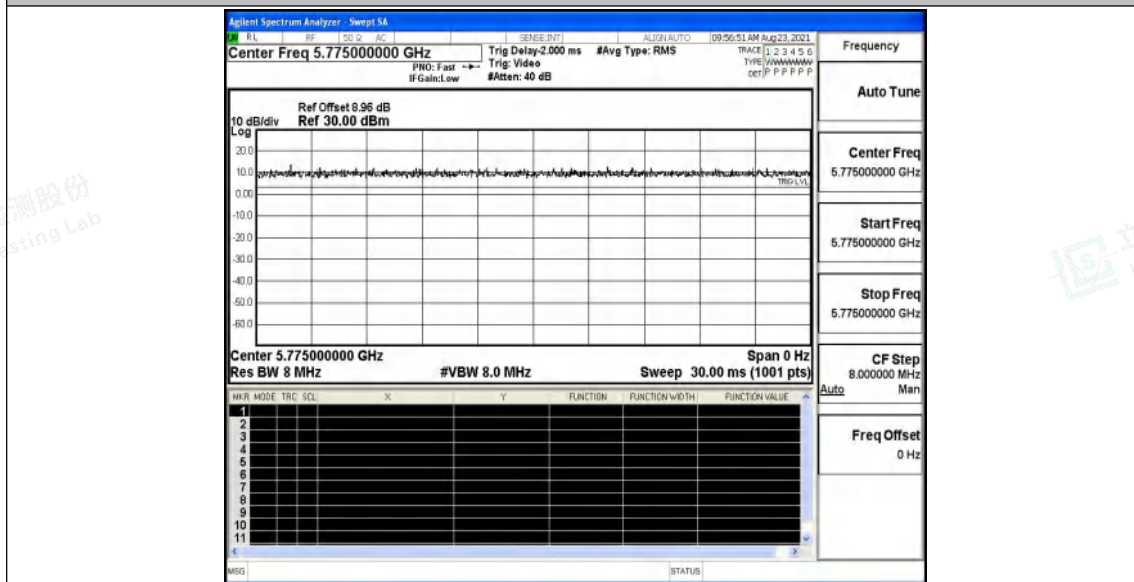
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11AC80SISO_Ant1_5775



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