



Appendix E

RF Test Data for 5.8GWIFI(Conducted Measurement)

Product Name: Tablet

Test Model: G12

Environmental Conditions

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





E.1 Min emission bandwidth

Test Result

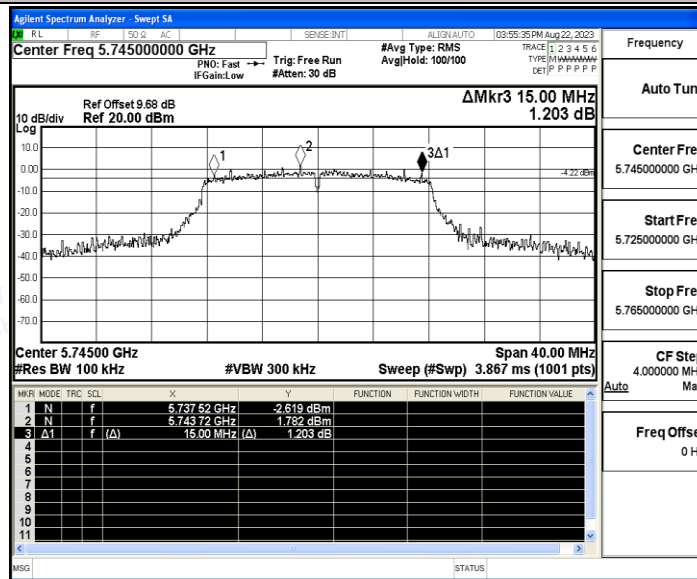
TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.000	5737.520	5752.520	0.5	PASS
		5785	15.920	5777.200	5793.120	0.5	PASS
		5825	15.080	5817.400	5832.480	0.5	PASS
11N20SISO	Ant1	5745	13.880	5737.440	5751.320	0.5	PASS
		5785	15.000	5777.440	5792.440	0.5	PASS
		5825	14.440	5818.080	5832.520	0.5	PASS
11N40SISO	Ant1	5755	33.920	5737.400	5771.320	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS
11AC20SISO	Ant1	5745	16.880	5736.480	5753.360	0.5	PASS
		5785	15.040	5777.480	5792.520	0.5	PASS
		5825	15.080	5817.480	5832.560	0.5	PASS
11AC40SISO	Ant1	5755	34.960	5737.560	5772.520	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS



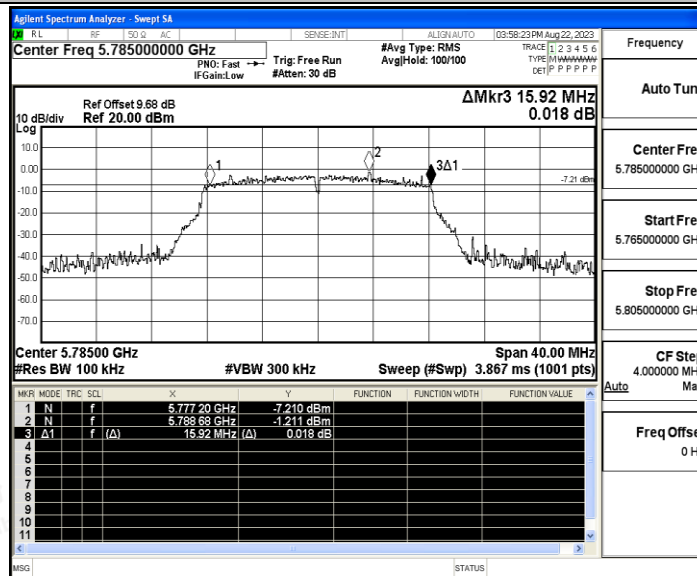


Test Graphs

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825

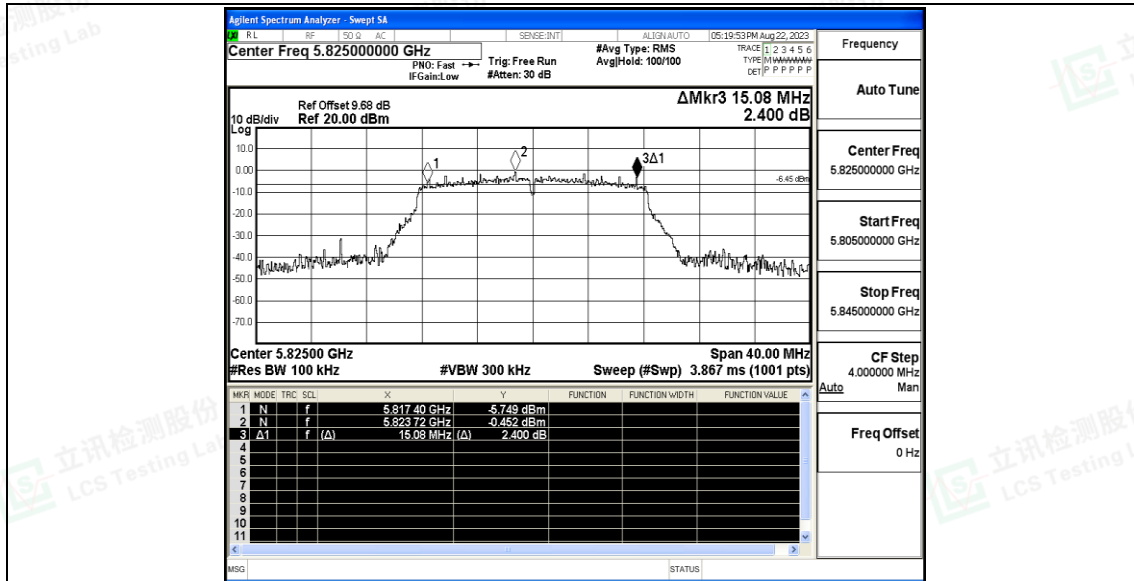


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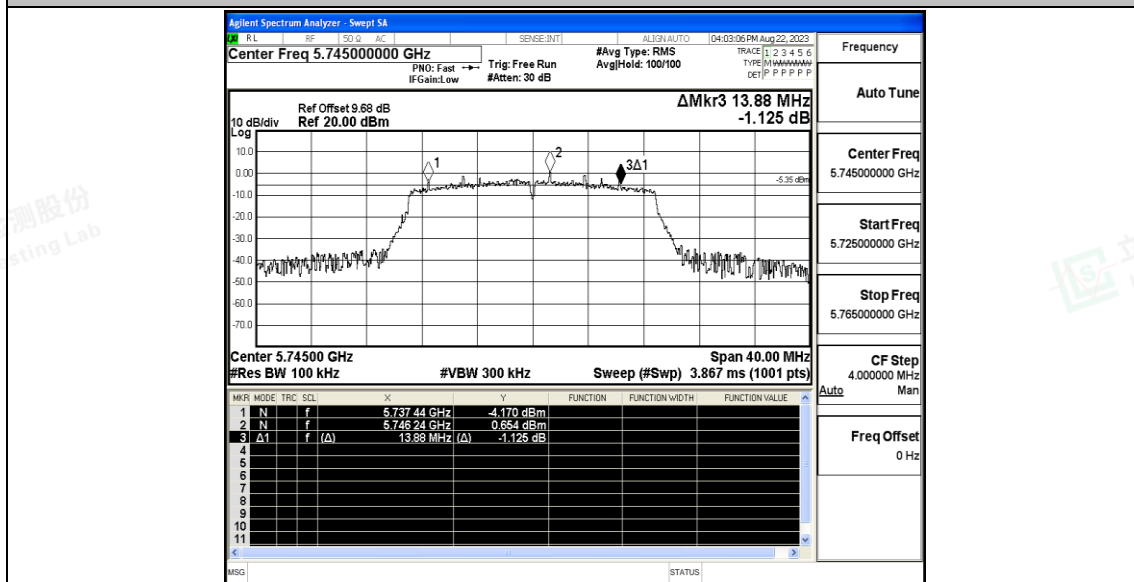
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_5745



11N20SISO_Ant1_5785

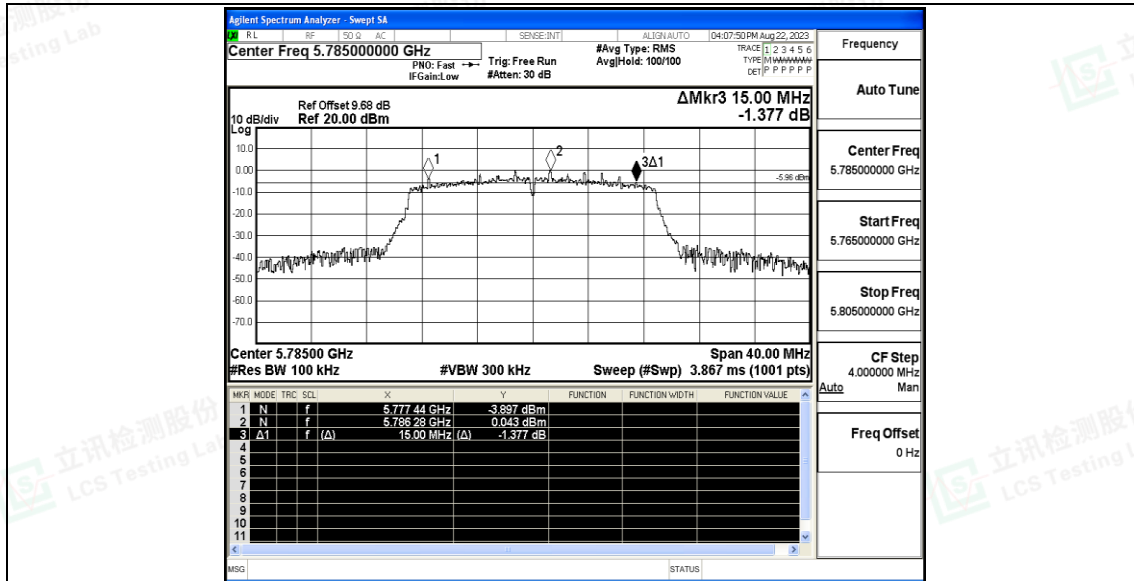


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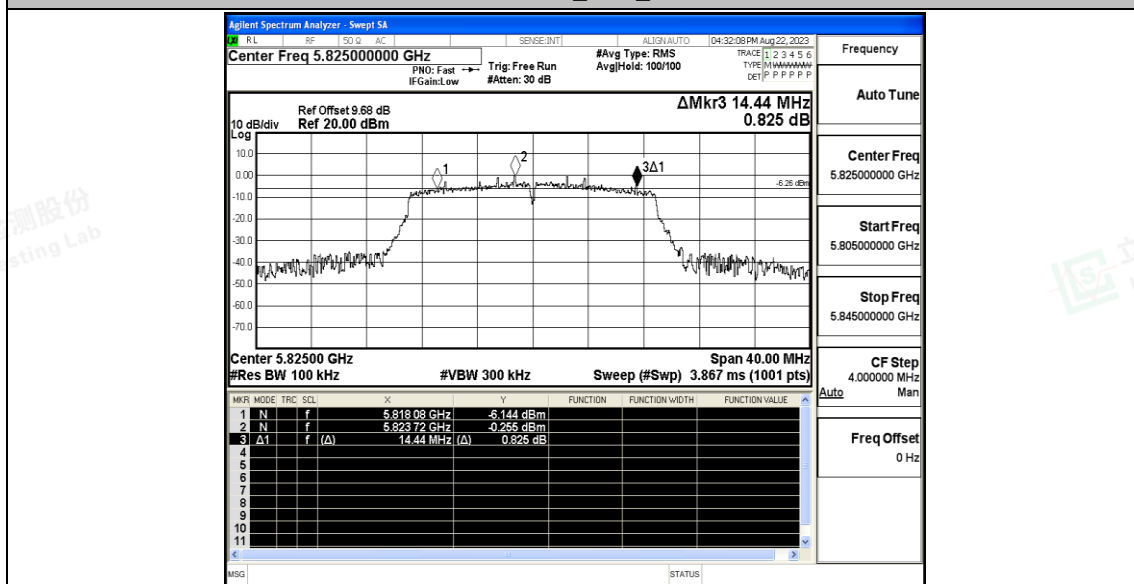
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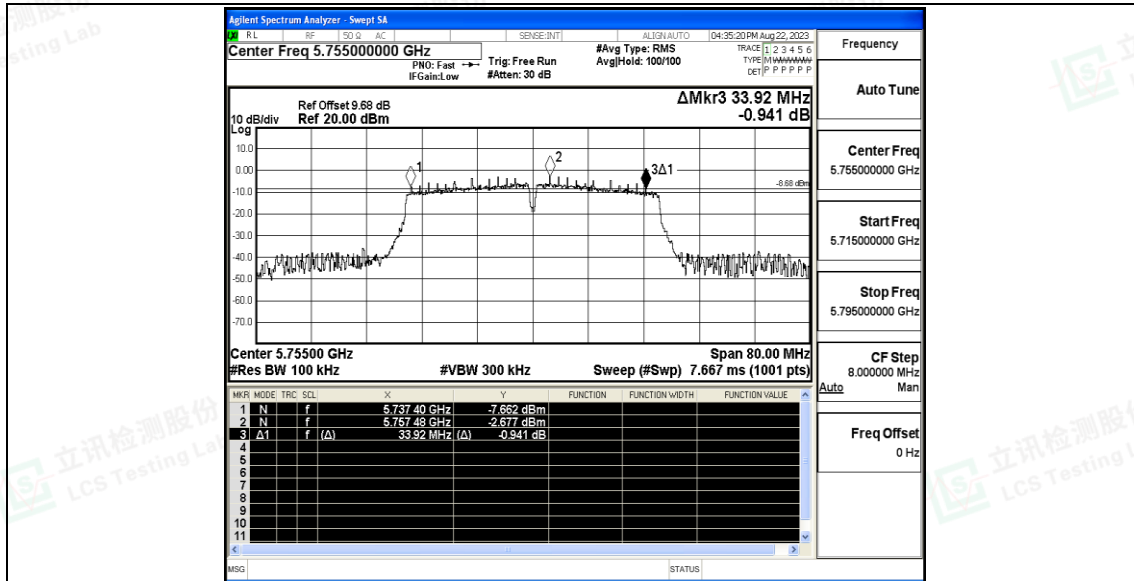


11N20SISO_Ant1_5825

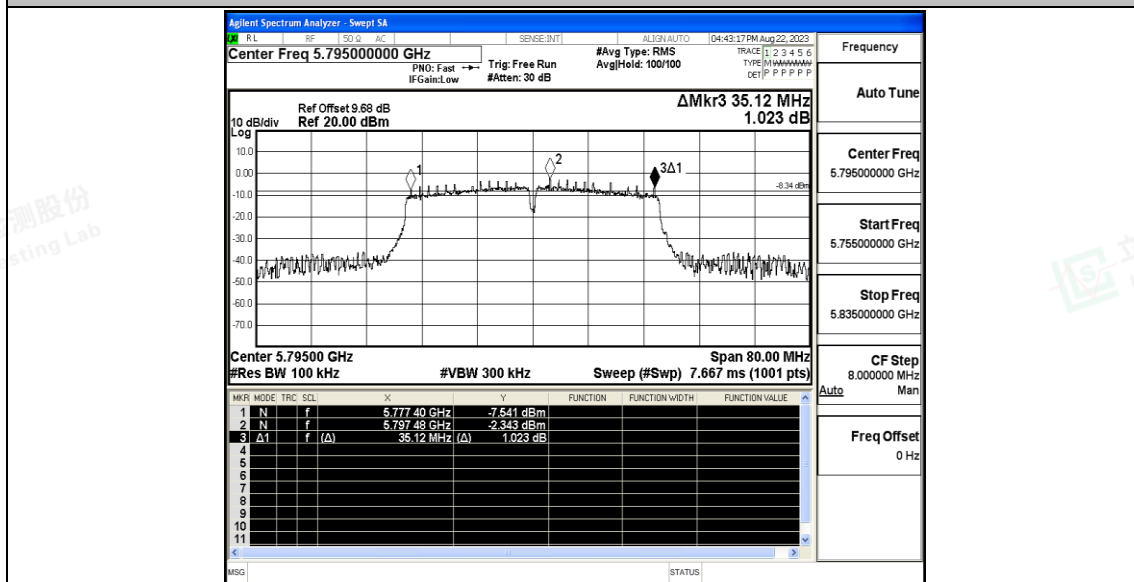


11N40SISO_Ant1_5755





11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

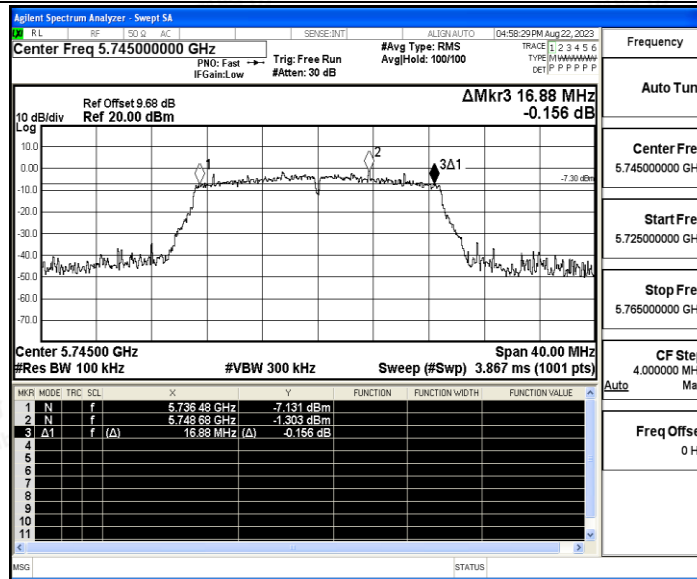


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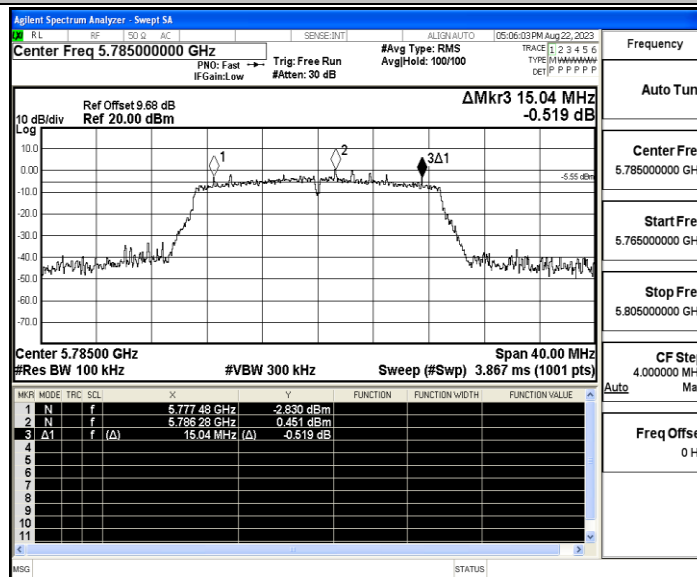
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11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825

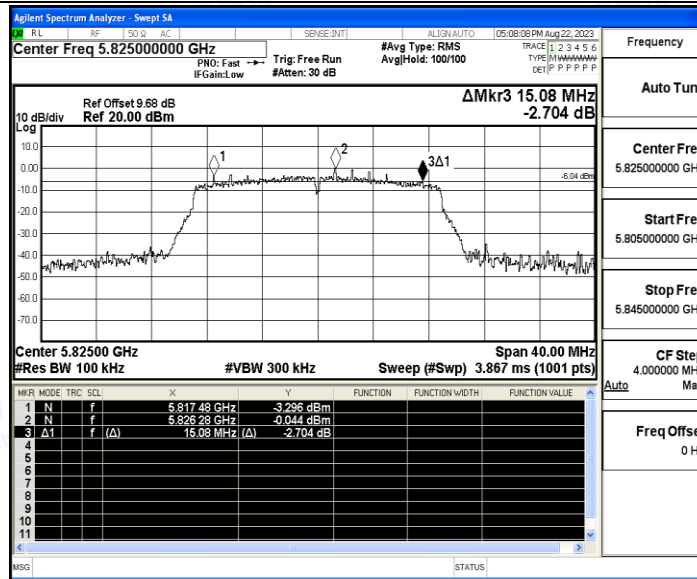


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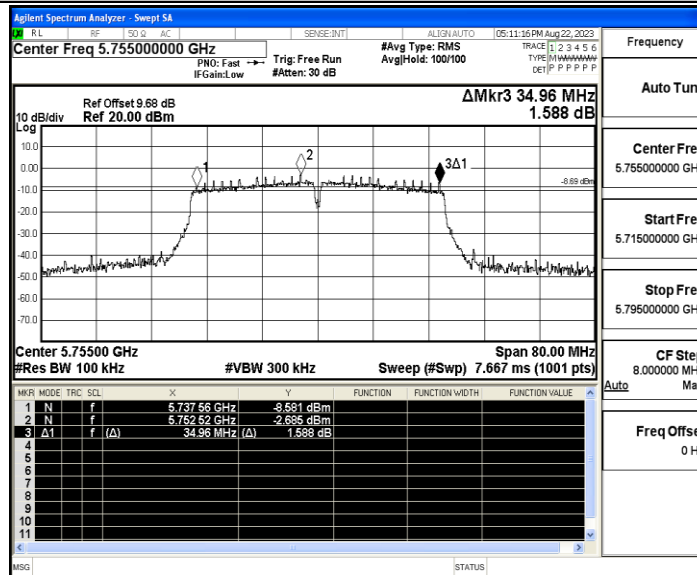
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11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

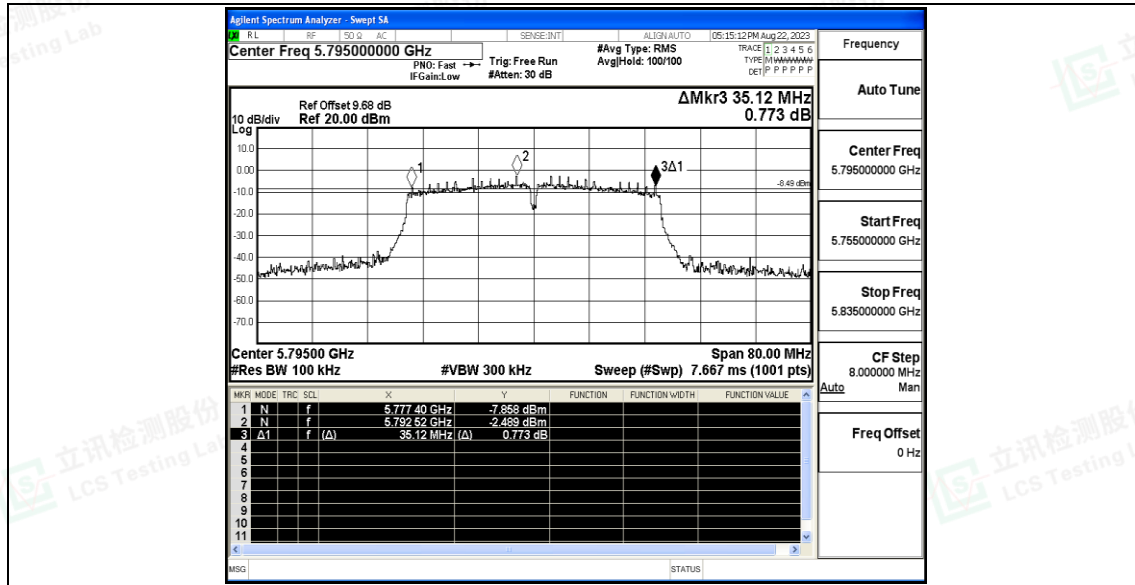


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E.2 Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	10.70	≤30.00	PASS
		5785	10.79	≤30.00	PASS
		5825	10.43	≤30.00	PASS
11N20SISO	Ant1	5745	10.59	≤30.00	PASS
		5785	10.67	≤30.00	PASS
		5825	10.41	≤30.00	PASS
11N40SISO	Ant1	5755	10.62	≤30.00	PASS
		5795	10.64	≤30.00	PASS
11AC20SISO	Ant1	5745	10.57	≤30.00	PASS
		5785	10.66	≤30.00	PASS
		5825	10.27	≤30.00	PASS
11AC40SISO	Ant1	5755	10.62	≤30.00	PASS
		5795	10.54	≤30.00	PASS

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





E.3 Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-2.44	≤30.00	PASS
		5785	-2.33	≤30.00	PASS
		5825	-2.73	≤30.00	PASS
11N20SISO	Ant1	5745	-2.71	≤30.00	PASS
		5785	-2.78	≤30.00	PASS
		5825	-2.99	≤30.00	PASS
11N40SISO	Ant1	5755	-5.72	≤30.00	PASS
		5795	-5.64	≤30.00	PASS
11AC20SISO	Ant1	5745	-2.75	≤30.00	PASS
		5785	-2.69	≤30.00	PASS
		5825	-3.02	≤30.00	PASS
11AC40SISO	Ant1	5755	-5.78	≤30.00	PASS
		5795	-5.84	≤30.00	PASS

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

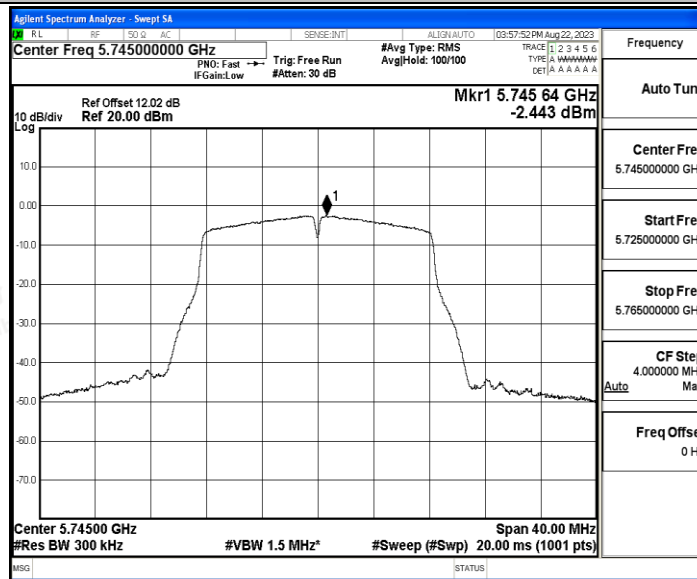
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.



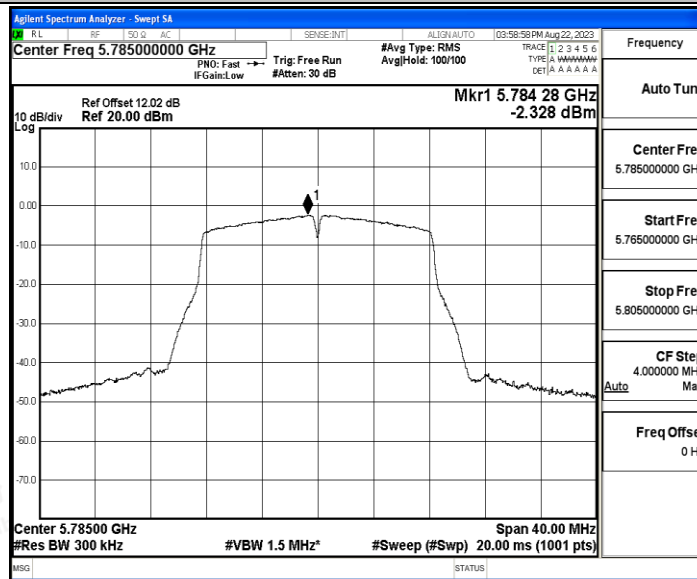


Test Graphs

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825

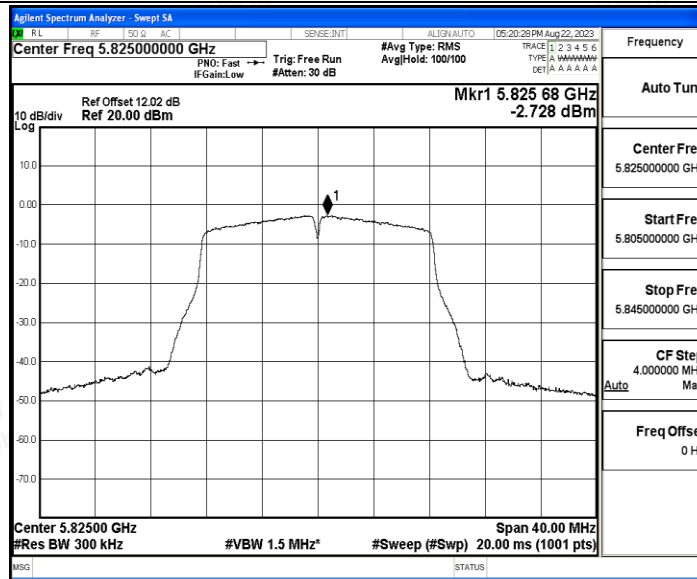


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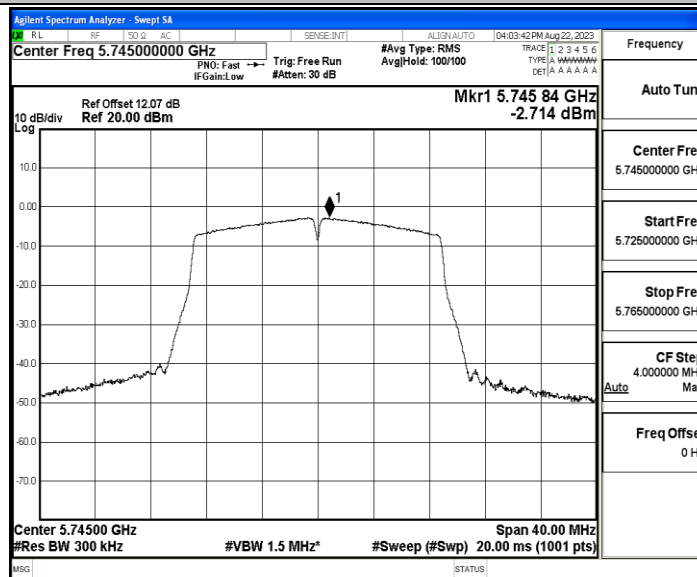
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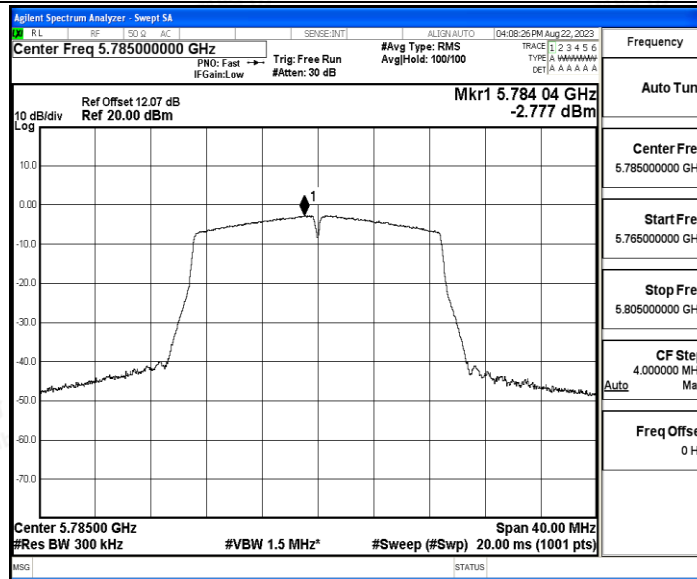


11N20SISO_Ant1_5745

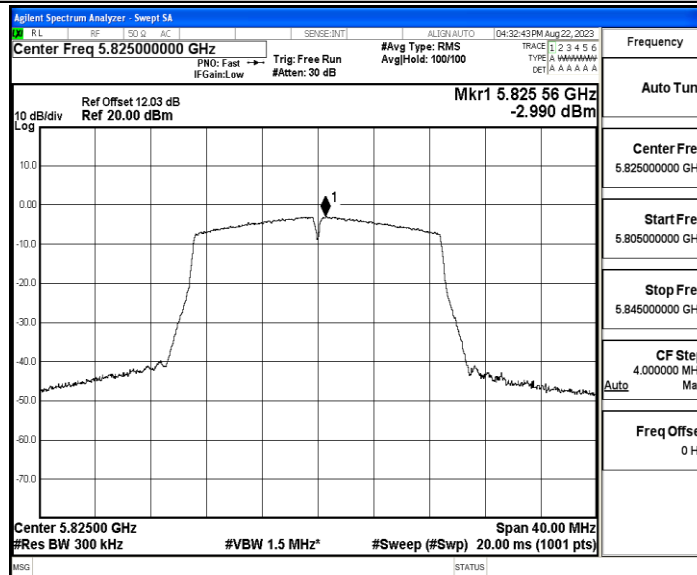


11N20SISO_Ant1_5785



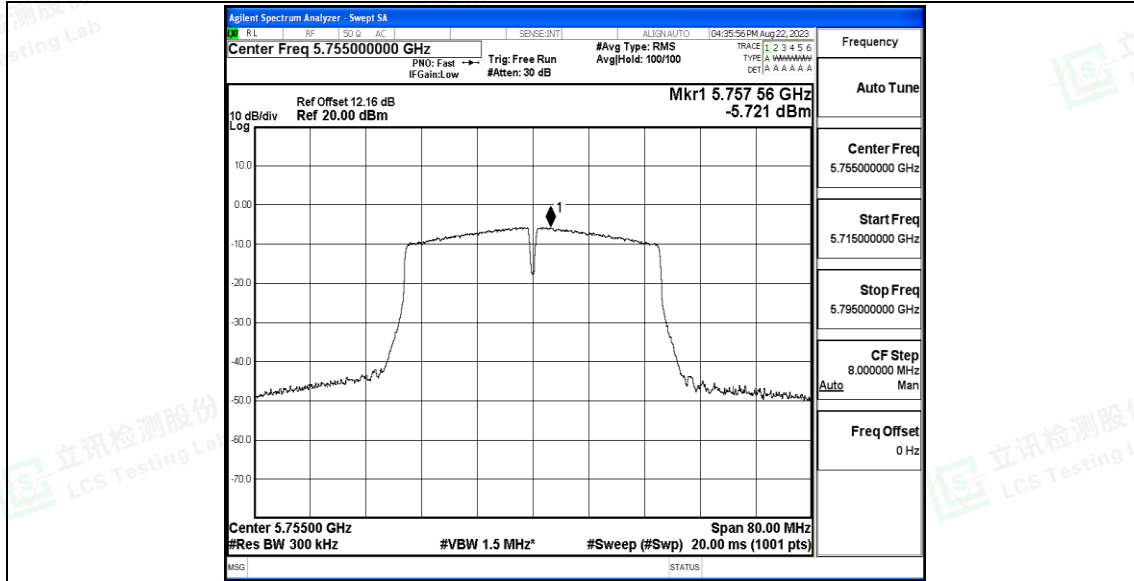


11N20SISO_Ant1_5825

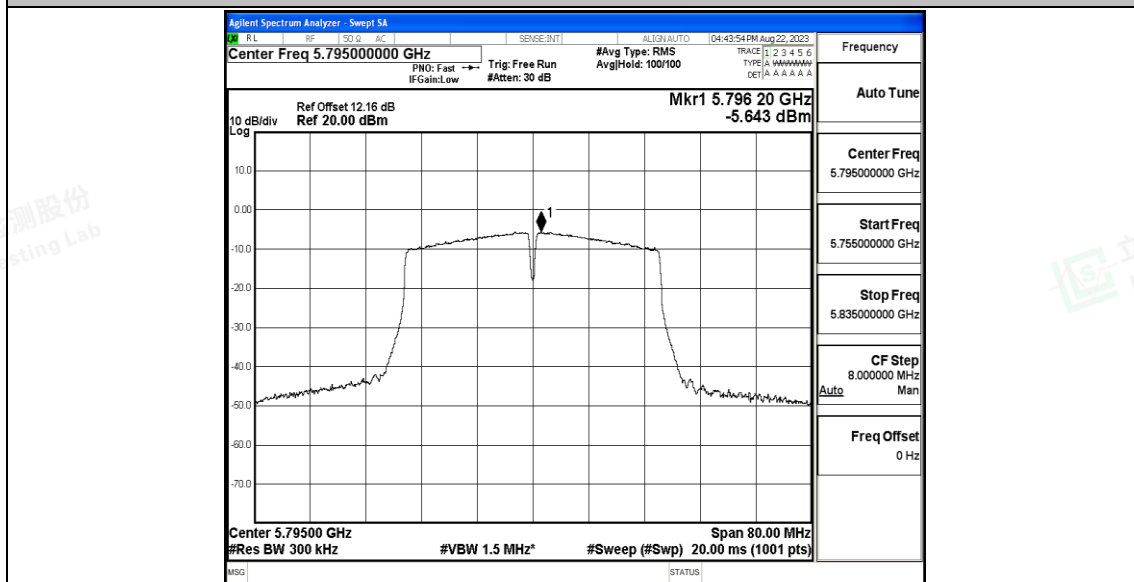


11N40SISO_Ant1_5755



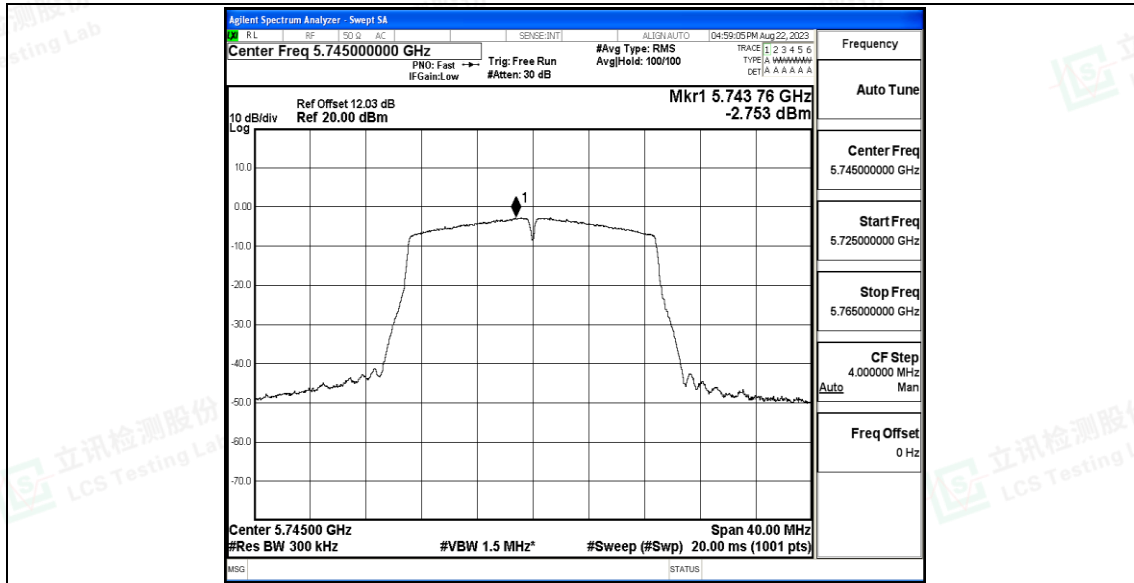


11N40SISO_Ant1_5795

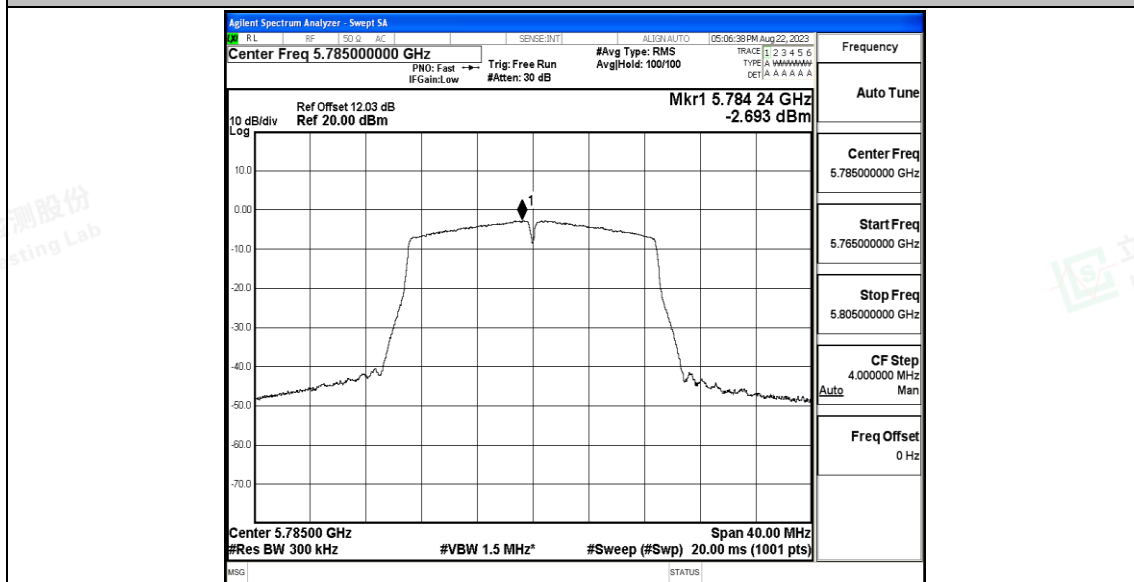


11AC20SISO_Ant1_5745



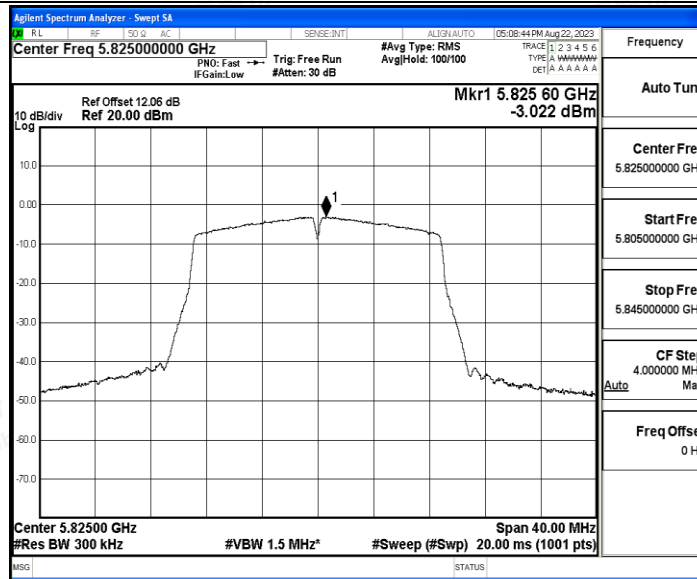


11AC20SISO_Ant1_5785

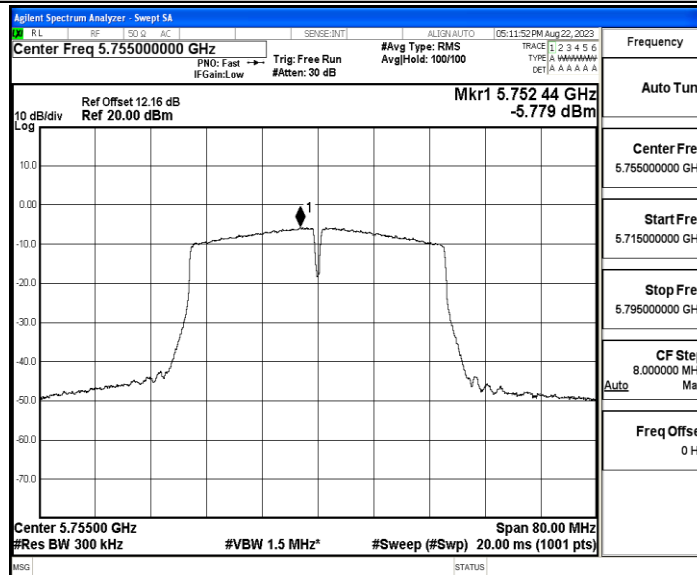


11AC20SISO_Ant1_5825



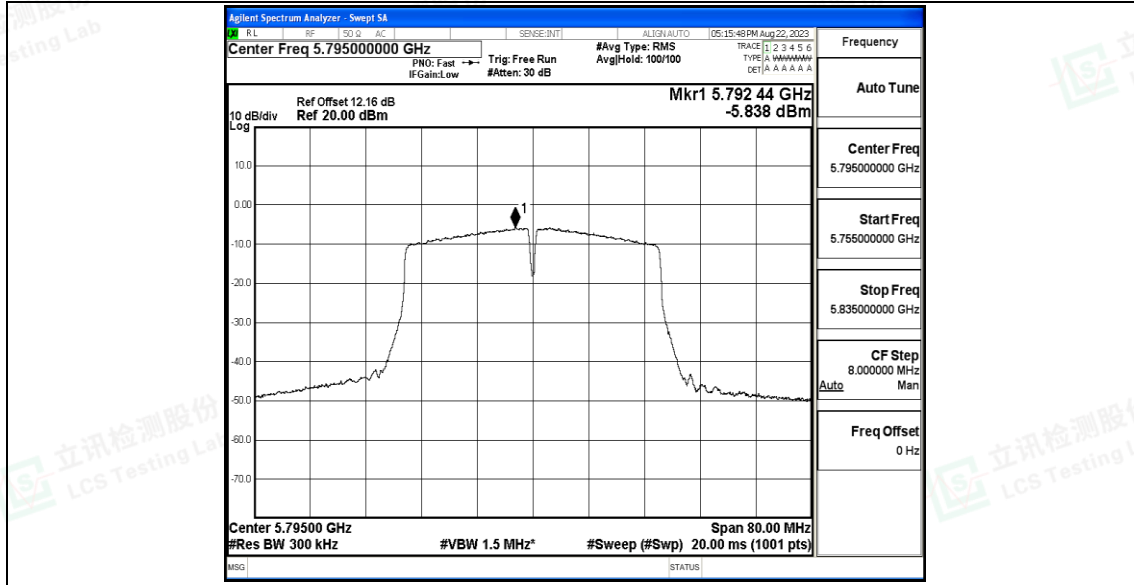


11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795







E.4 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	Ant1	Low	5745	Peak	5650.000	-48.30 3	≤-27.00	---	---	PASS
				Peak	5700.000	-38.76	≤10.00	---	---	PASS
				Peak	5720.000	-27.08	≤15.60	---	---	PASS
				Peak	5725.000	-25.54	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-39.27 4	≤15.60	---	---	PASS
				Peak	5855.000	-40.3	≤27.00	---	---	PASS
				Peak	5875.000	-44.4	≤15.60	---	---	PASS
				Peak	5925.000	-48.94	≤10.00	---	---	PASS
11N20SIS O	Ant1	Low	5745	Peak	5650.000	-49.81 2	≤-27.00	---	---	PASS
				Peak	5700.000	-46.96	≤10.00	---	---	PASS
				Peak	5720.000	-32.5	≤15.60	---	---	PASS
				Peak	5725.000	-38.63	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-39.26 3	≤15.60	---	---	PASS
				Peak	5855.000	-40.04	≤27.00	---	---	PASS
				Peak	5875.000	-45.07	≤15.60	---	---	PASS
				Peak	5925.000	-49.69	≤10.00	---	---	PASS
11N40SIS O	Ant1	Low	5755	Peak	5650.000	-44.87 8	≤-27.00	---	---	PASS
				Peak	5700.000	-42.14	≤10.00	---	---	PASS
				Peak	5720.000	-36.27	≤15.60	---	---	PASS
				Peak	5725.000	-35.51	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-36.51 8	≤15.60	---	---	PASS
				Peak	5855.000	-45.61	≤27.00	---	---	PASS
				Peak	5875.000	-48.04	≤15.60	---	---	PASS
				Peak	5925.000	-49.14	≤10.00	---	---	PASS
11AC20SI SO	Ant1	Low	5745	Peak	5650.000	-48.30 4	≤-27.00	---	---	PASS
				Peak	5700.000	-47.9	≤10.00	---	---	PASS
				Peak	5720.000	-40.03	≤15.60	---	---	PASS
				Peak	5725.000	-37.71	≤27.00	---	---	PASS



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11AC40SI SO	Ant1	High	5825	Peak	5850.000	-38.5	≤15.60	---	---	PASS
				Peak	5855.000	-34.67	≤27.00	---	---	PASS
				Peak	5875.000	-43.82	≤15.60	---	---	PASS
				Peak	5925.000	-48.23	≤10.00	---	---	PASS
		Low	5755	Peak	5650.000	-49.55 7	≤-27.00	---	---	PASS
				Peak	5700.000	-44.72	≤10.00	---	---	PASS
				Peak	5720.000	-38.45	≤15.60	---	---	PASS
				Peak	5725.000	-36.92	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-41.22 6	≤15.60	---	---	PASS
				Peak	5855.000	-44.46	≤27.00	---	---	PASS
				Peak	5875.000	-47.19	≤15.60	---	---	PASS
				Peak	5925.000	-50.56	≤10.00	---	---	PASS

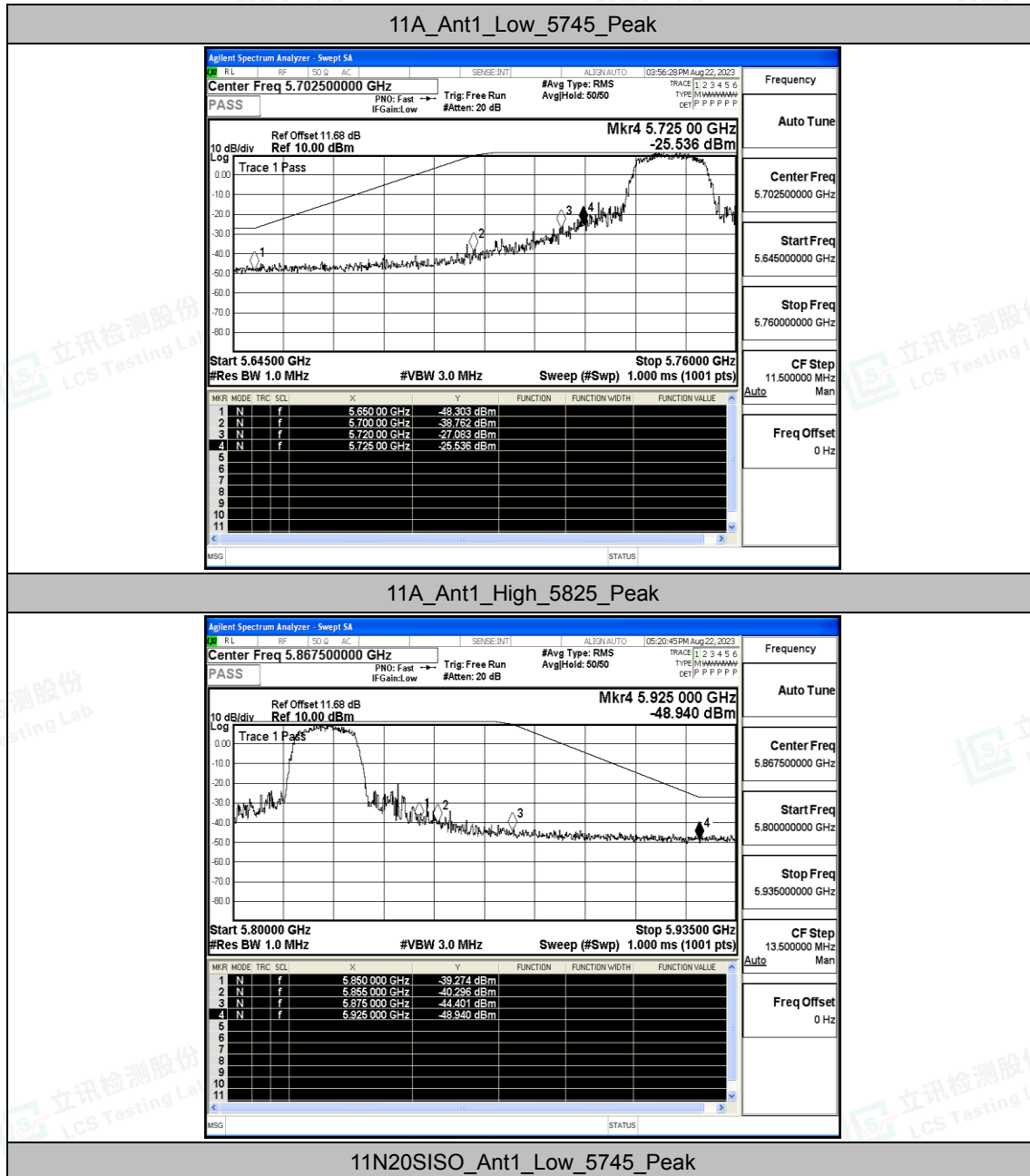
Note:

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.





Test Graphs

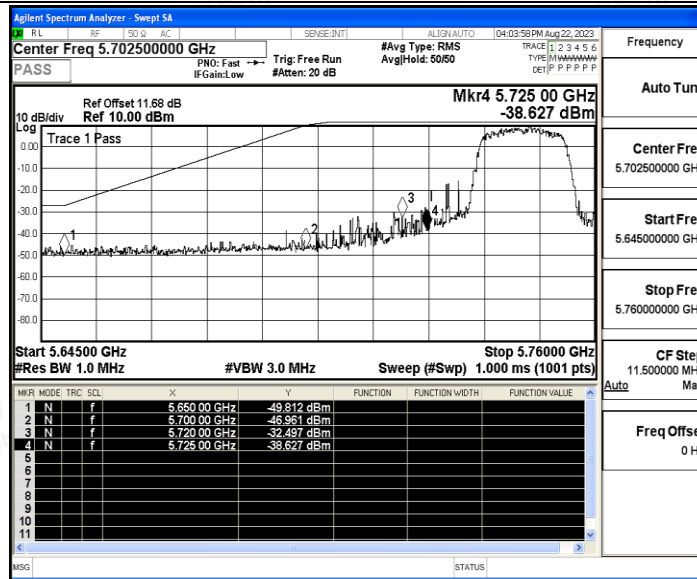


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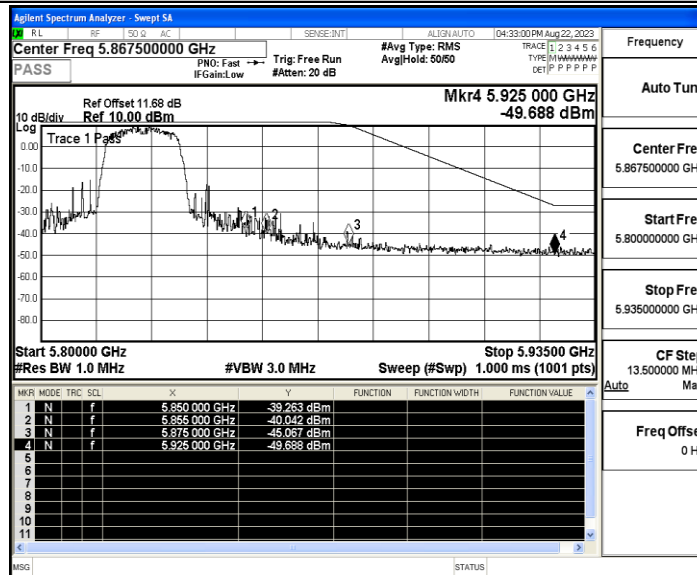
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11N20SISO_Ant1_High_5825_Peak



11N40SISO_Ant1_Low_5755_Peak

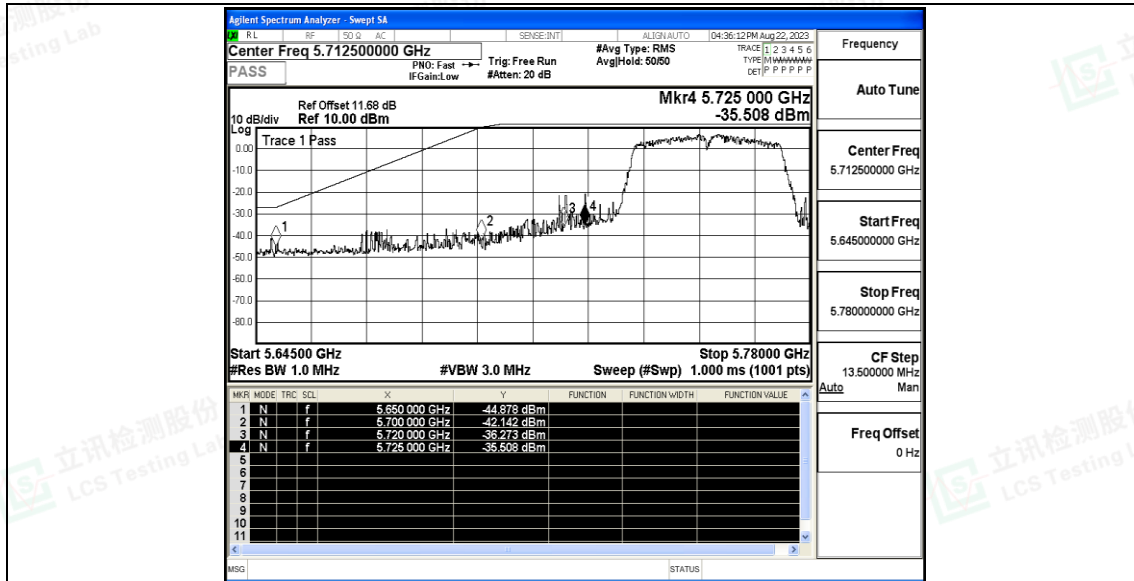


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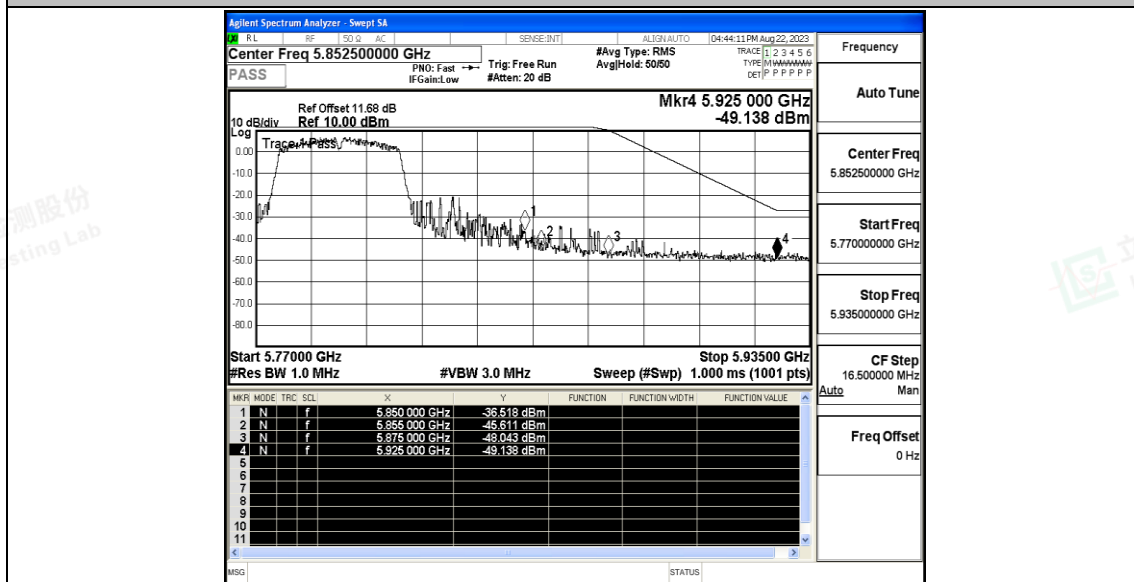
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11N40SISO_Ant1_High_5795_Peak



11AC20SISO_Ant1_Low_5745_Peak

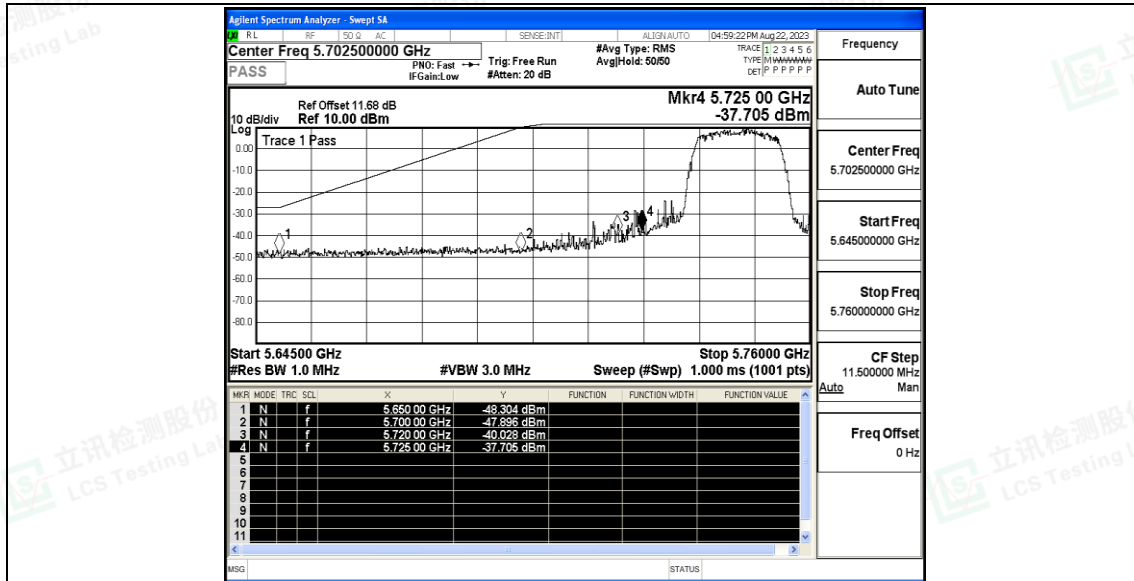


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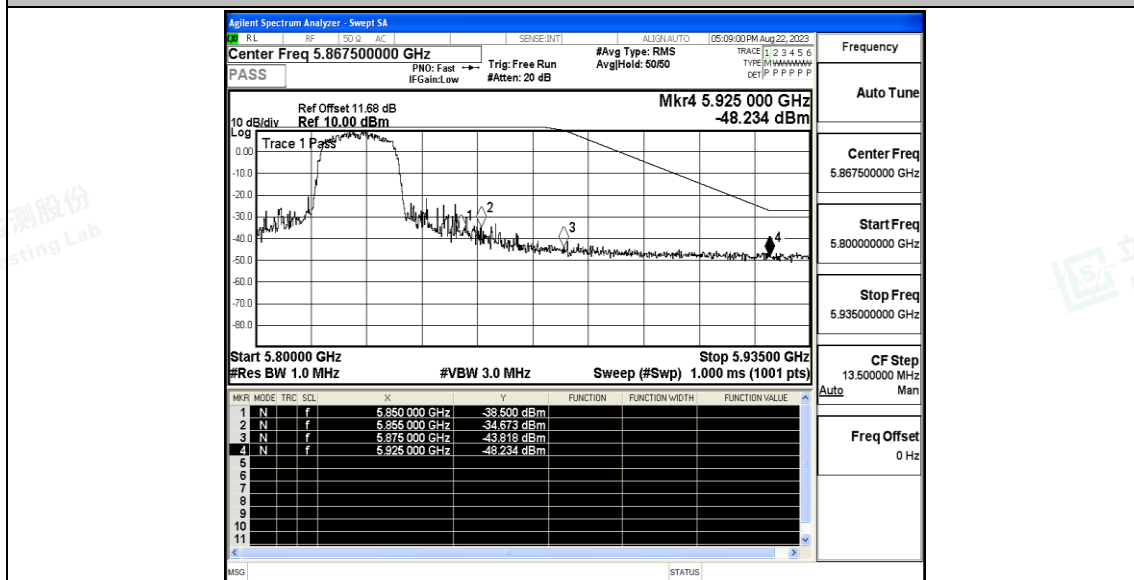
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11AC20SISO_Ant1_High_5825_Peak



11AC40SISO_Ant1_Low_5755_Peak

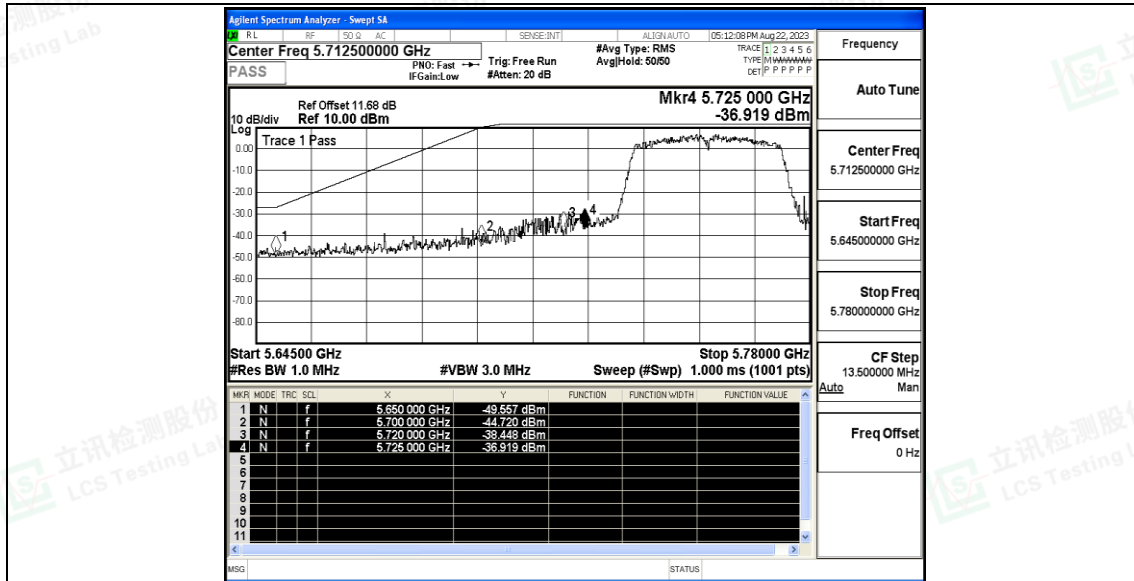


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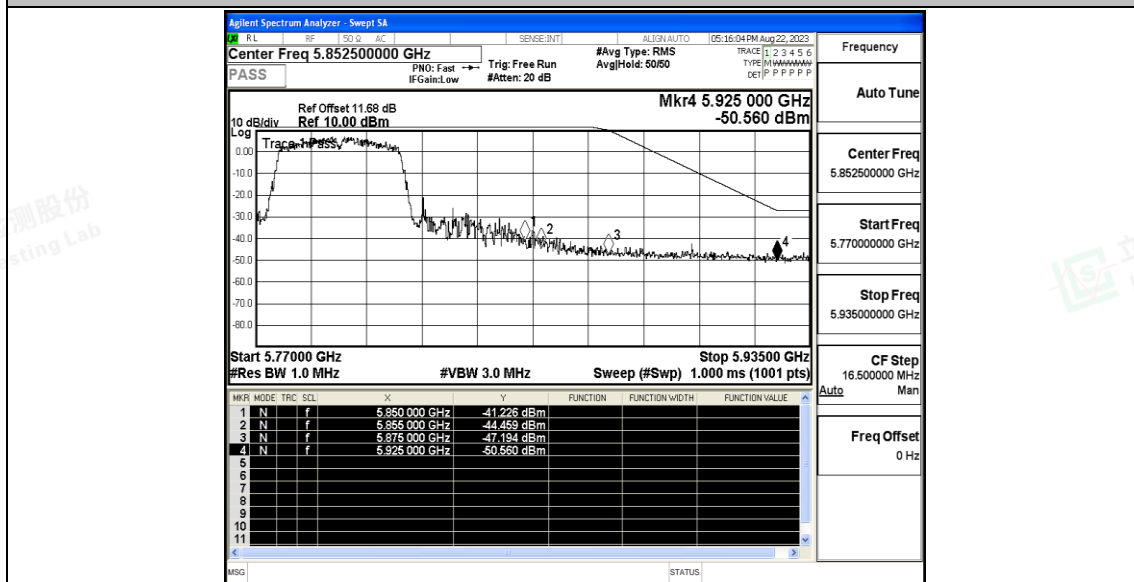
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11AC40SISO_Ant1_High_5795_Peak



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E.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Frequen cy[MHz]	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11N20SI SO	Ant1	5745	NV	NT	-20000.00	-3.481288	20	PASS
			LV	NT	-40000.00	-6.962576	20	PASS
			HV	NT	-80000.00	-13.925152	20	PASS
		5785	NV	NT	-20000.00	-3.457217	20	PASS
			LV	NT	-40000.00	-6.914434	20	PASS
			HV	NT	-20000.00	-3.457217	20	PASS
		5825	NV	NT	-40000.00	-6.866953	20	PASS
			LV	NT	-20000.00	-3.433476	20	PASS
			HV	NT	-40000.00	-6.866953	20	PASS
11N40SI SO	Ant1	5755	NV	NT	-40000.00	-6.950478	20	PASS
			LV	NT	0.00	0.000000	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	0.00	0.000000	20	PASS

Temperature								
TestMode	Antenna	Frequen cy[MHz]	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11N20SI SO	Ant1	5745	NV	-30	-20000.00	-3.481288	20	PASS
			NV	-20	-20000.00	-3.481288	20	PASS
			NV	-10	-20000.00	-3.481288	20	PASS
			NV	0	-20000.00	-3.481288	20	PASS
			NV	10	-40000.00	-6.962576	20	PASS
			NV	20	-40000.00	-6.962576	20	PASS
			NV	30	-20000.00	-3.481288	20	PASS
			NV	40	-60000.00	-10.443864	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5785	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-20000.00	-3.457217	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-6.914434	20	PASS
			NV	10	-60000.00	-10.371651	20	PASS
			NV					



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			NV	20	-20000.00	-3.457217	20	PASS
			NV	30	-20000.00	-3.457217	20	PASS
			NV	40	-40000.00	-6.914434	20	PASS
			NV	50	-20000.00	-3.457217	20	PASS
		5825	NV	-30	-40000.00	-6.866953	20	PASS
			NV	-20	-20000.00	-3.433476	20	PASS
			NV	-10	-40000.00	-6.866953	20	PASS
			NV	0	-40000.00	-6.866953	20	PASS
			NV	10	-20000.00	-3.433476	20	PASS
			NV	20	-60000.00	-10.300429	20	PASS
			NV	30	-20000.00	-3.433476	20	PASS
			NV	40	-40000.00	-6.866953	20	PASS
			NV	50	-40000.00	-6.866953	20	PASS
			NV	-30	-40000.00	-6.950478	20	PASS
			NV	-20	-40000.00	-6.950478	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-6.950478	20	PASS
11N40SI SO	Ant1	5755	NV	10	-40000.00	-6.950478	20	PASS
			NV	20	-40000.00	-6.950478	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-40000.00	-6.950478	20	PASS
			NV	50	-40000.00	-6.950478	20	PASS
			NV	-30	0.00	0.000000	20	PASS
			NV	-20	-40000.00	-6.902502	20	PASS
			NV	-10	-40000.00	-6.902502	20	PASS
		5795	NV	0	0.00	0.000000	20	PASS
			NV	10	-40000.00	-6.902502	20	PASS
			NV	20	-40000.00	-6.902502	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
			NV	-30	0.00	0.000000	20	PASS
			NV	-20	-40000.00	-6.902502	20	PASS



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E.6 Duty Cycle

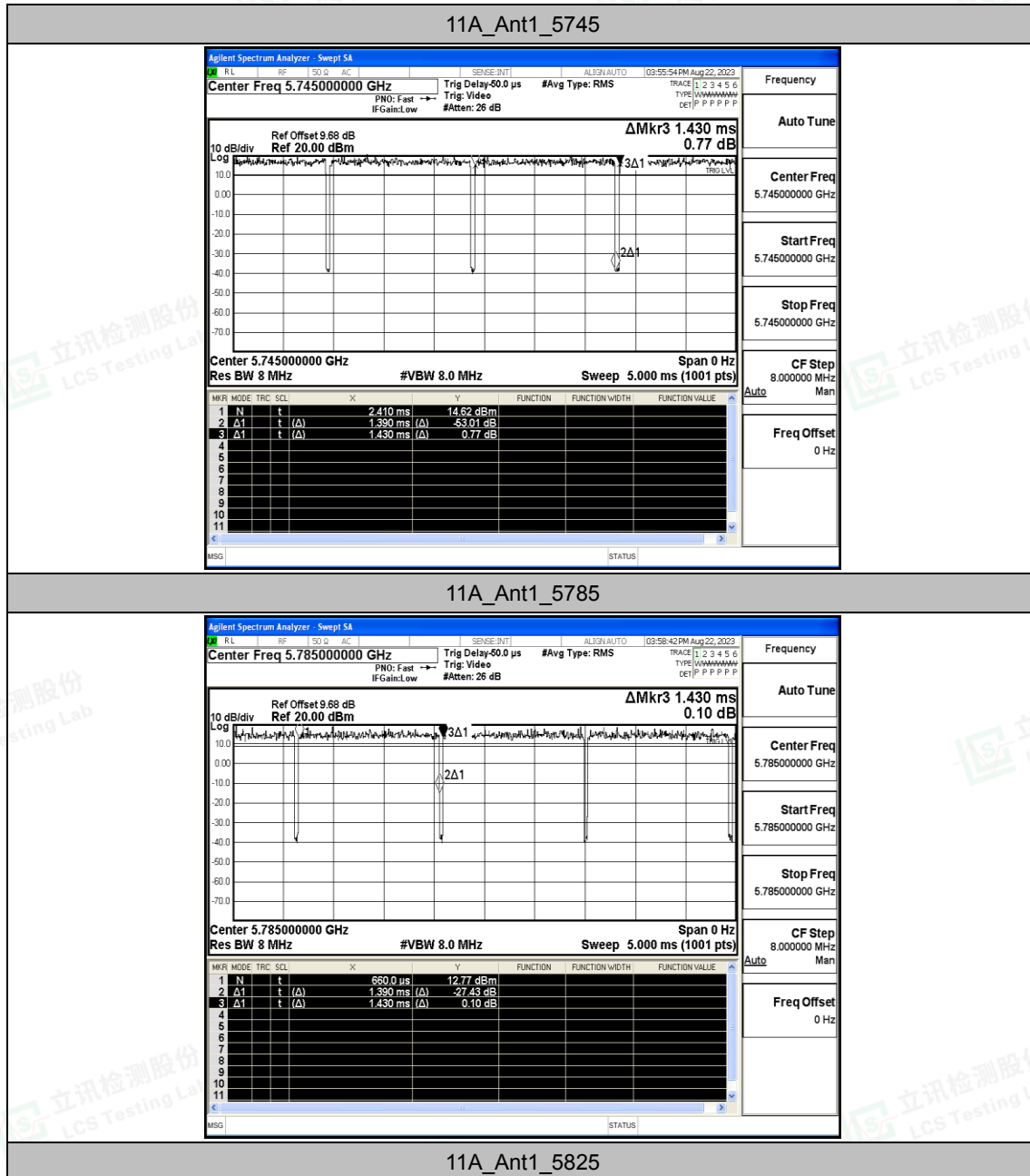
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5745	1.39	1.43	97.20
		5785	1.39	1.43	97.20
		5825	1.39	1.43	97.20
11N20SISO	Ant1	5745	1.28	1.33	96.24
		5785	1.28	1.33	96.24
		5825	1.29	1.33	96.99
11N40SISO	Ant1	5755	0.64	0.68	94.12
		5795	0.64	0.68	94.12
11AC20SISO	Ant1	5745	1.32	1.36	97.06
		5785	1.31	1.35	97.04
		5825	1.31	1.36	96.32
11AC40SISO	Ant1	5755	0.65	0.69	94.20
		5795	0.65	0.69	94.20





Test Graphs

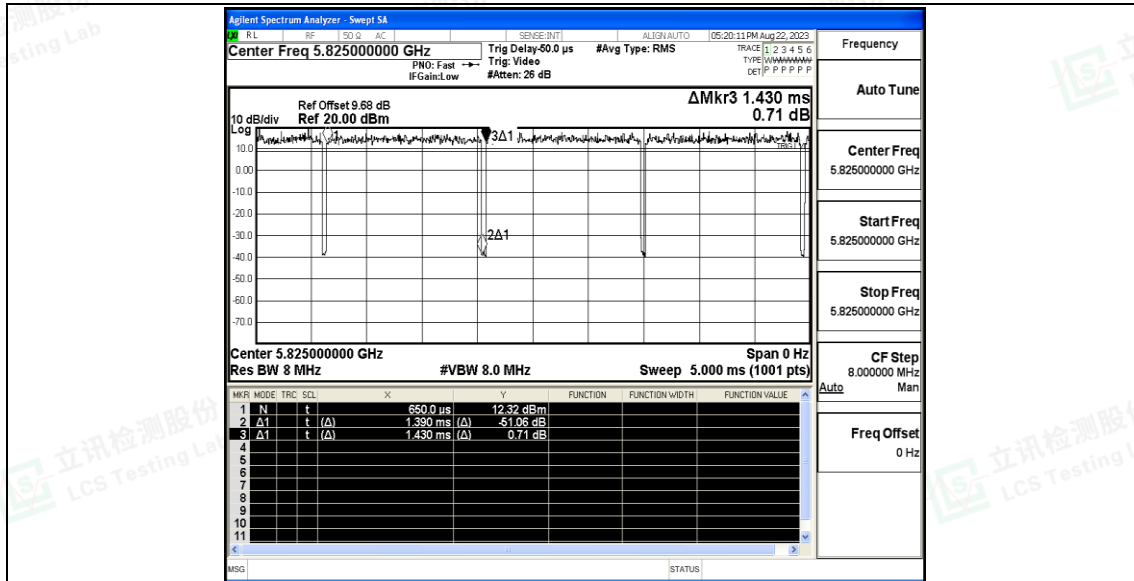


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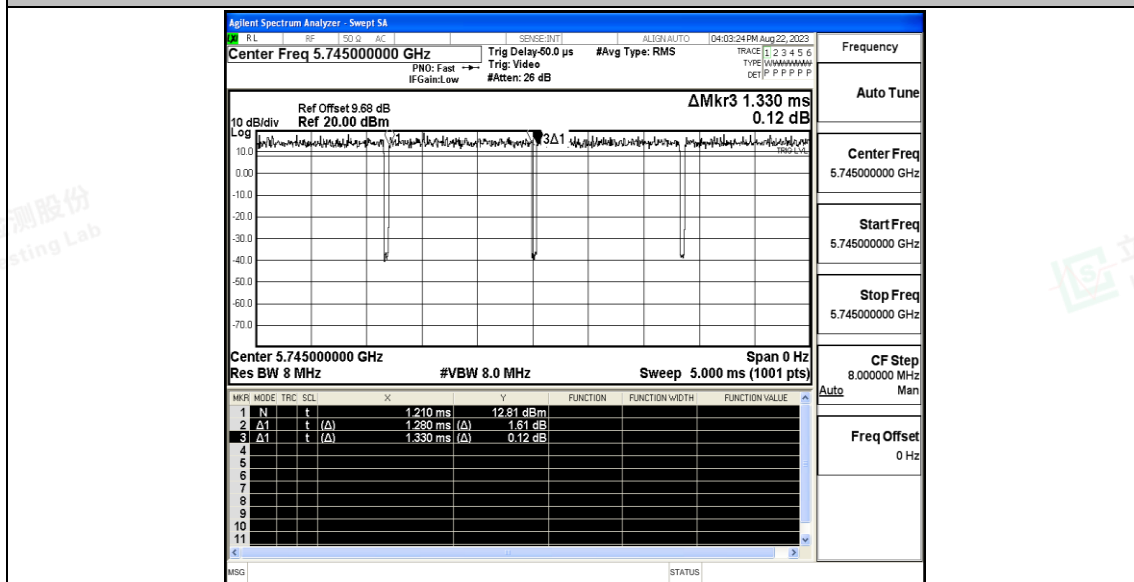
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11N20SISO_Ant1_5745



11N20SISO_Ant1_5785

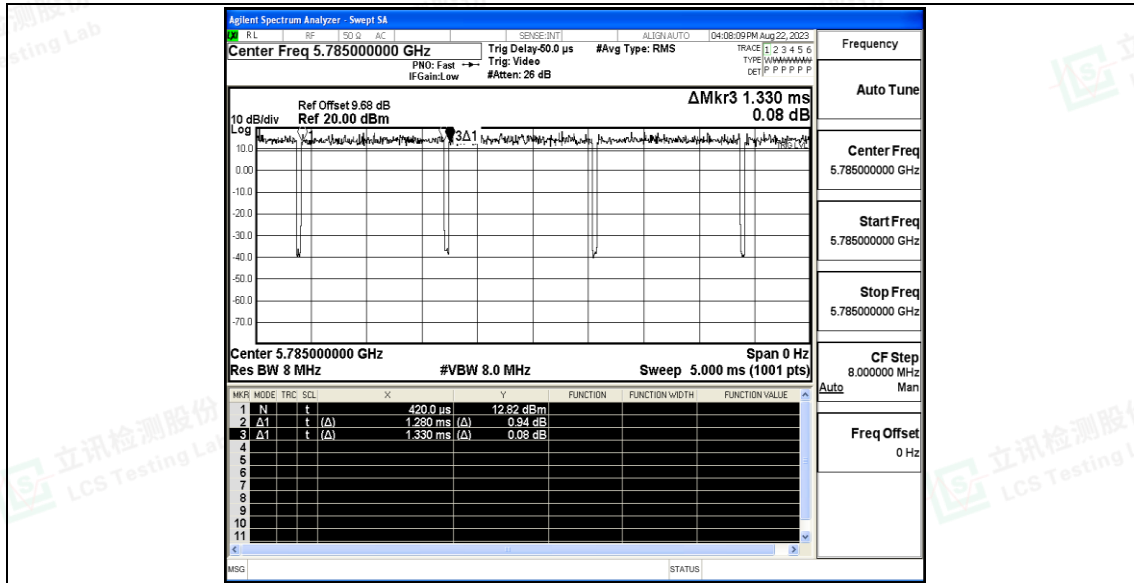


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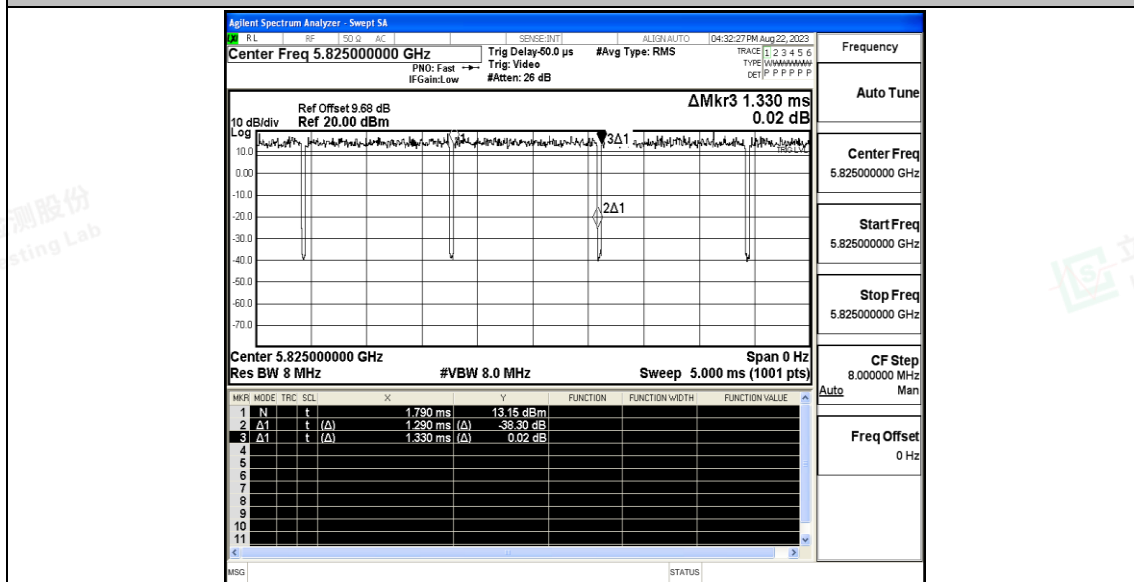
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11N20SISO_Ant1_5825



11N40SISO_Ant1_5755

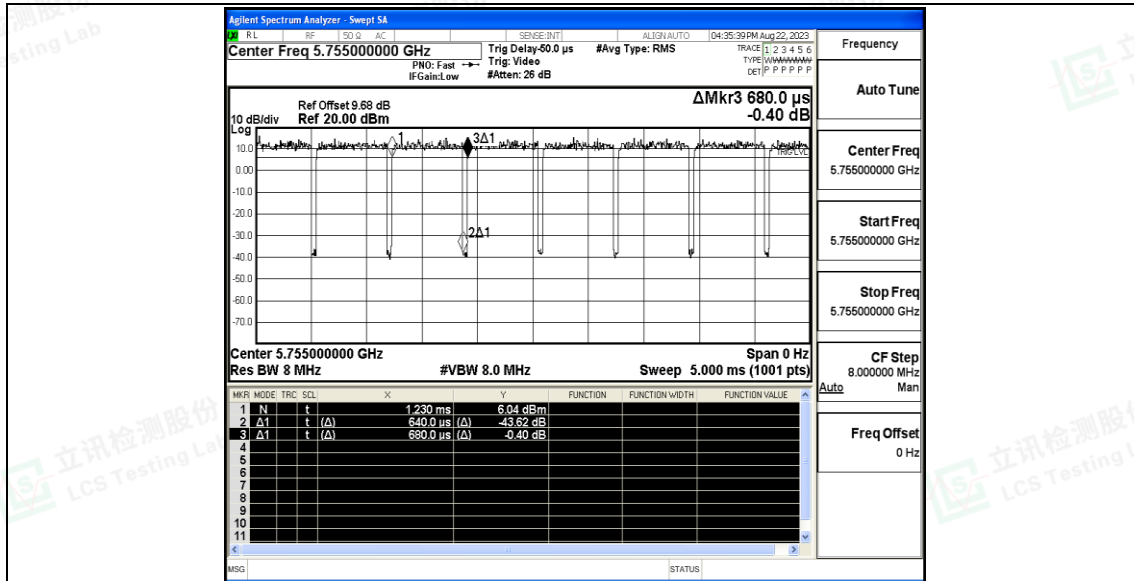


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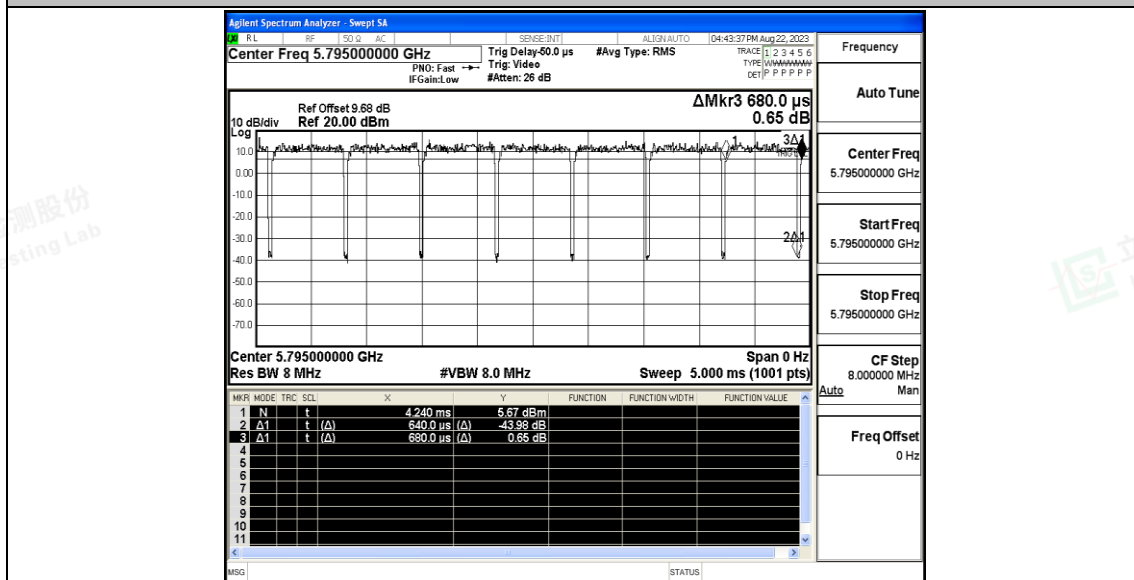
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

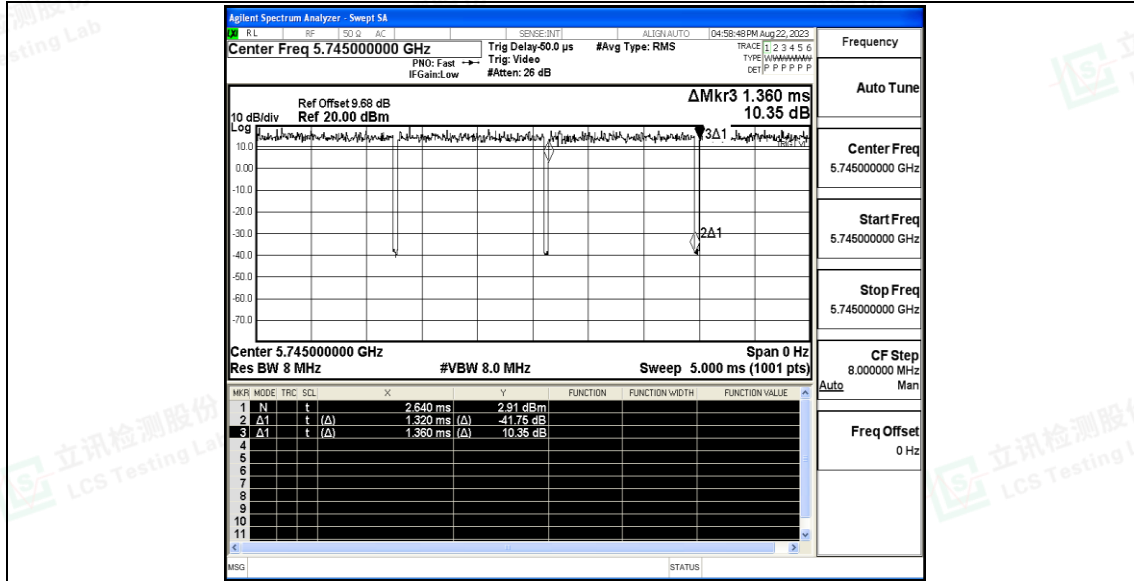


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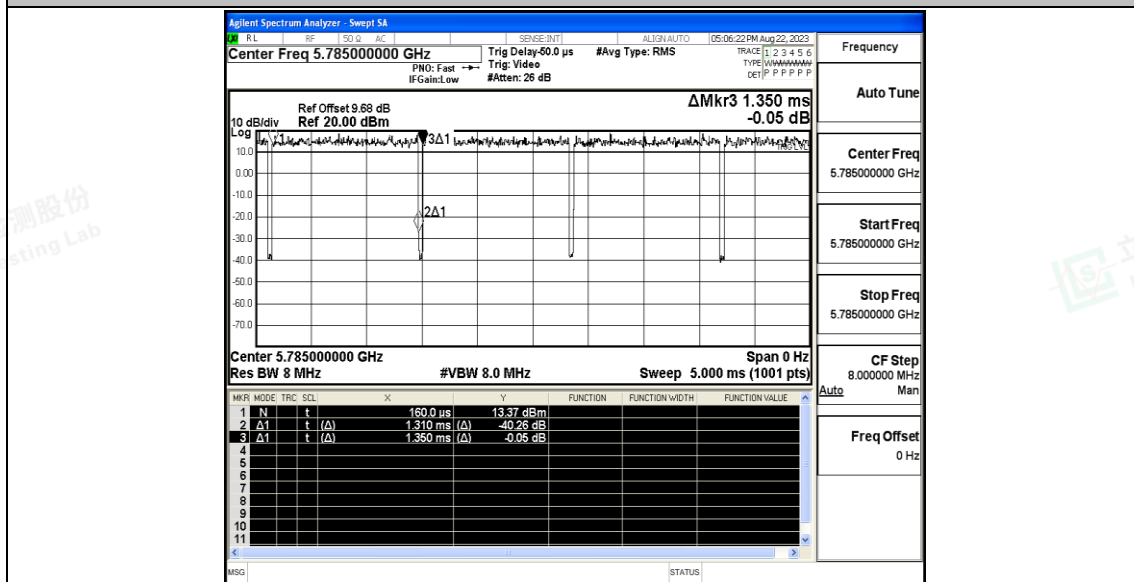
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11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825

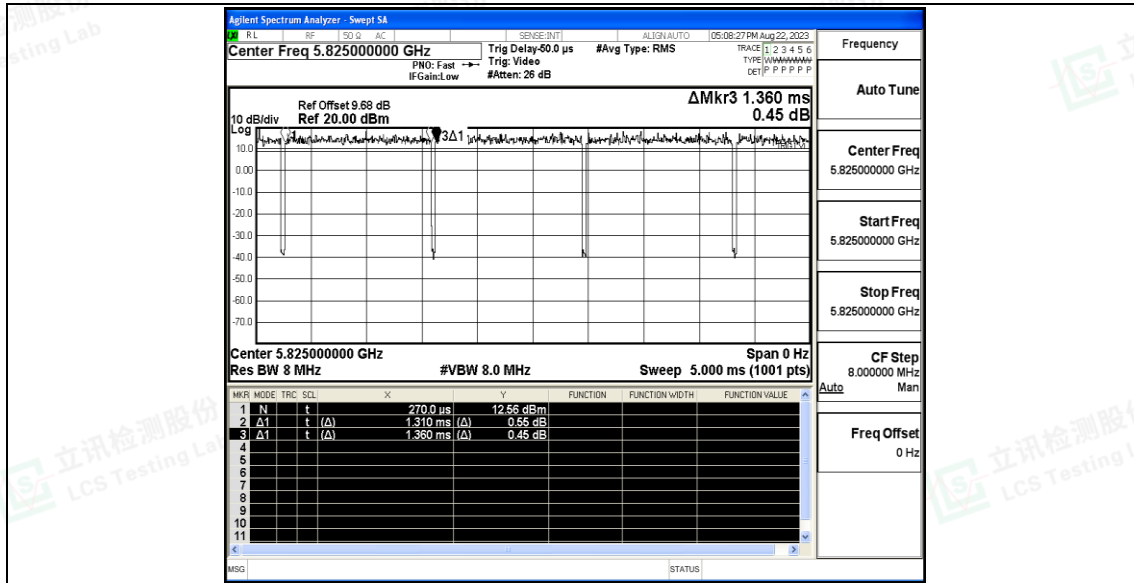


Shenzhen LCS Compliance Testing Laboratory Ltd.

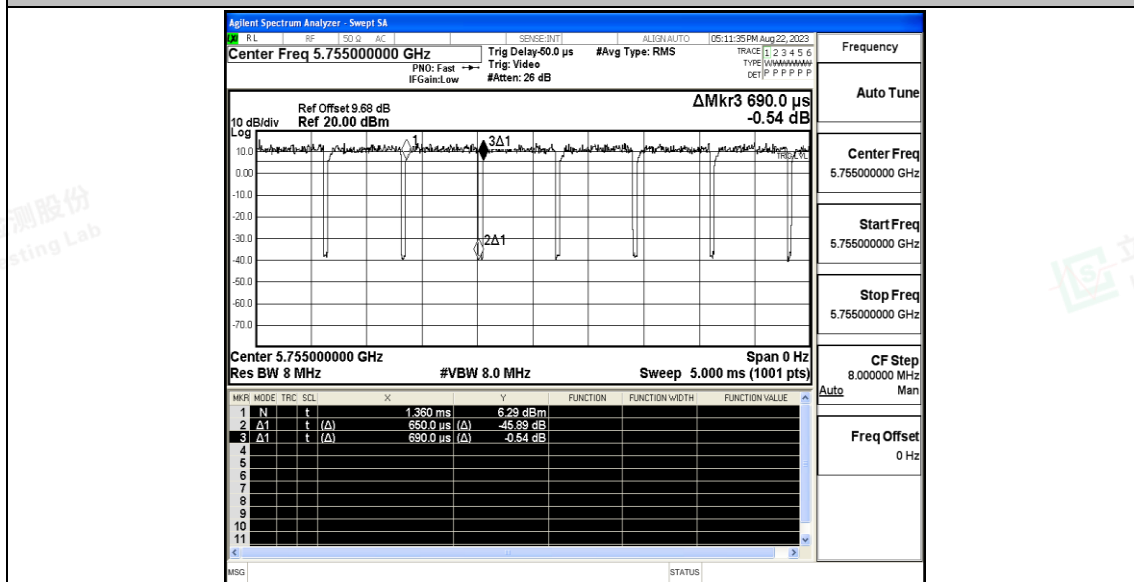
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

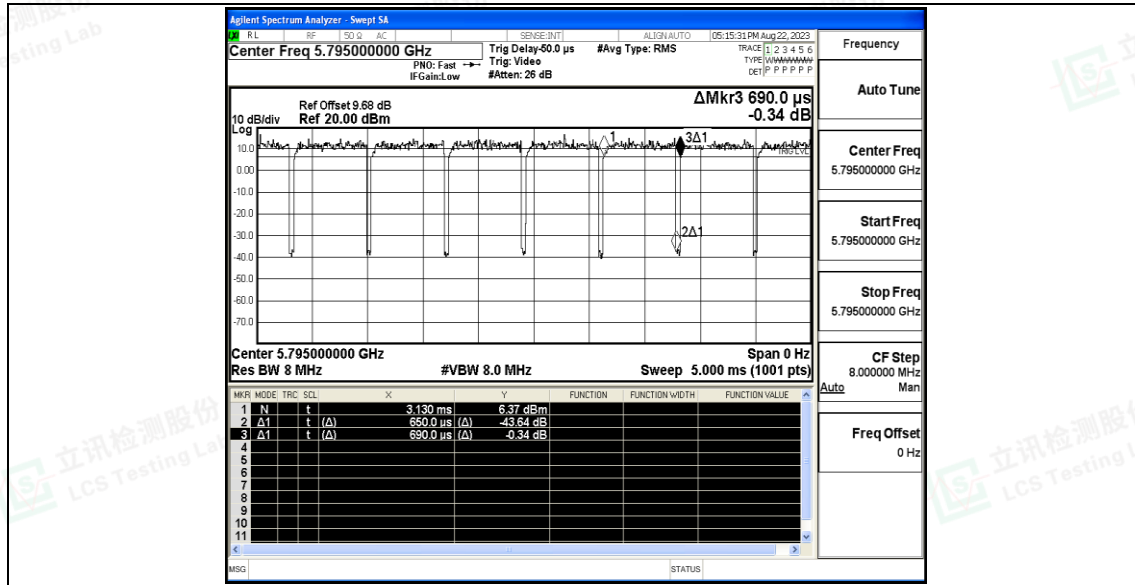


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