



Appendix C

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: Display frame

Test Model: US-65550

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Monkey Li
Supervised by:	Li Huan



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C.1 Emission Bandwidth

Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.000	5170.000	5190.000	---	---
		5220	19.920	5210.040	5229.960	---	---
		5240	20.160	5229.960	5250.120	---	---
11N20SISO	Ant1	5180	20.400	5169.800	5190.200	---	---
		5220	20.360	5209.800	5230.160	---	---
		5240	20.320	5229.800	5250.120	---	---
11N40SISO	Ant1	5190	40.560	5169.760	5210.320	---	---
		5230	40.560	5209.680	5250.240	---	---
11AC20SISO	Ant1	5180	20.240	5169.880	5190.120	---	---
		5220	20.480	5209.680	5230.160	---	---
		5240	20.600	5229.640	5250.240	---	---
11AC40SISO	Ant1	5190	40.720	5169.680	5210.400	---	---
		5230	40.560	5209.680	5250.240	---	---
11AC80SISO	Ant1	5210	80.640	5169.680	5250.320	---	---



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Test Graphs

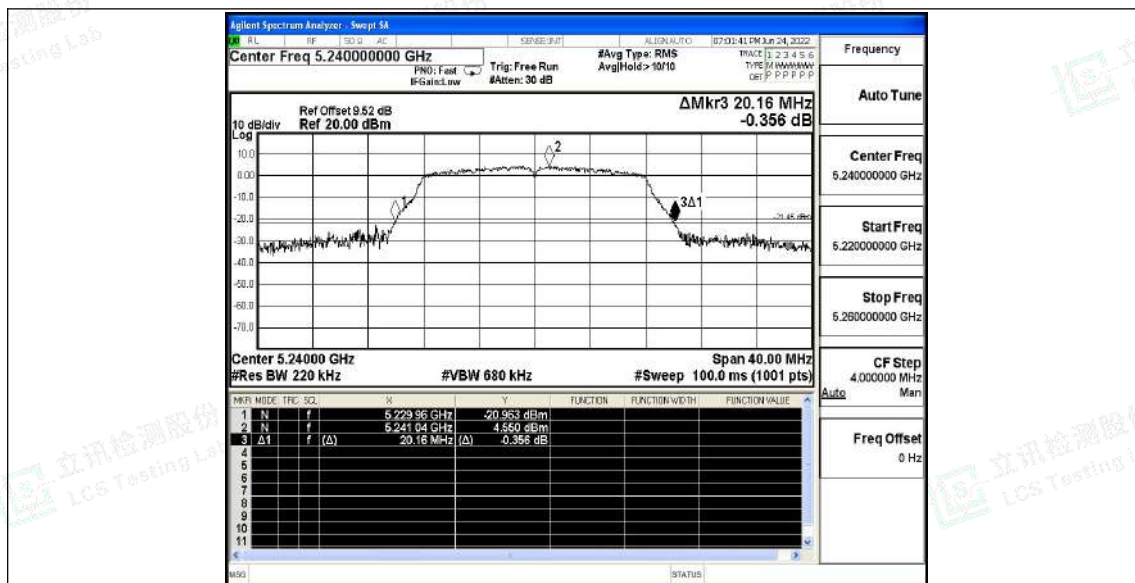


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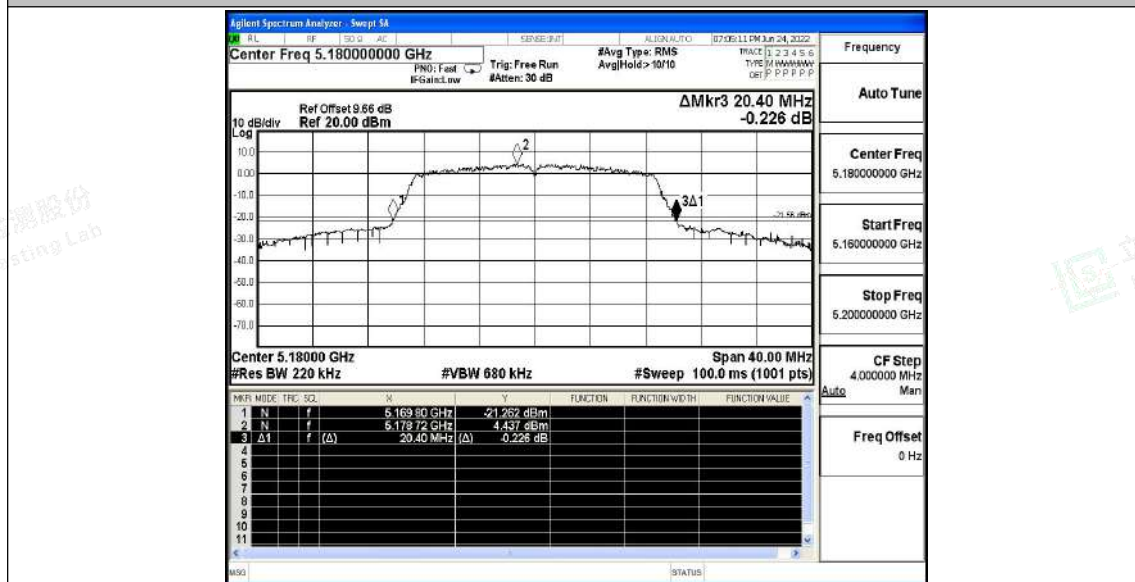
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11N20SISO_Ant1_5180



11N20SISO_Ant1_5220

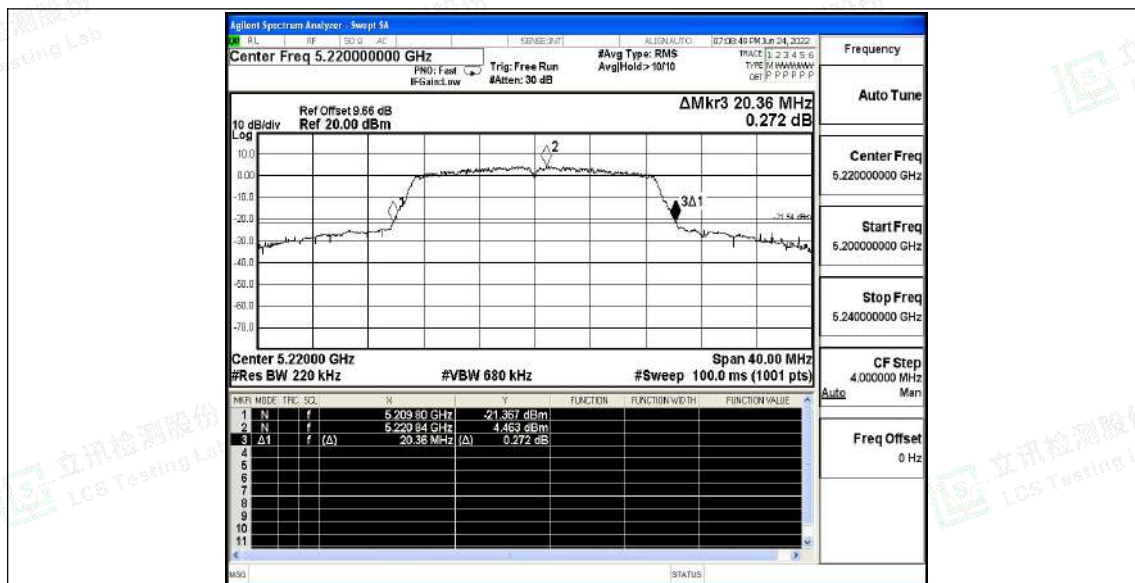


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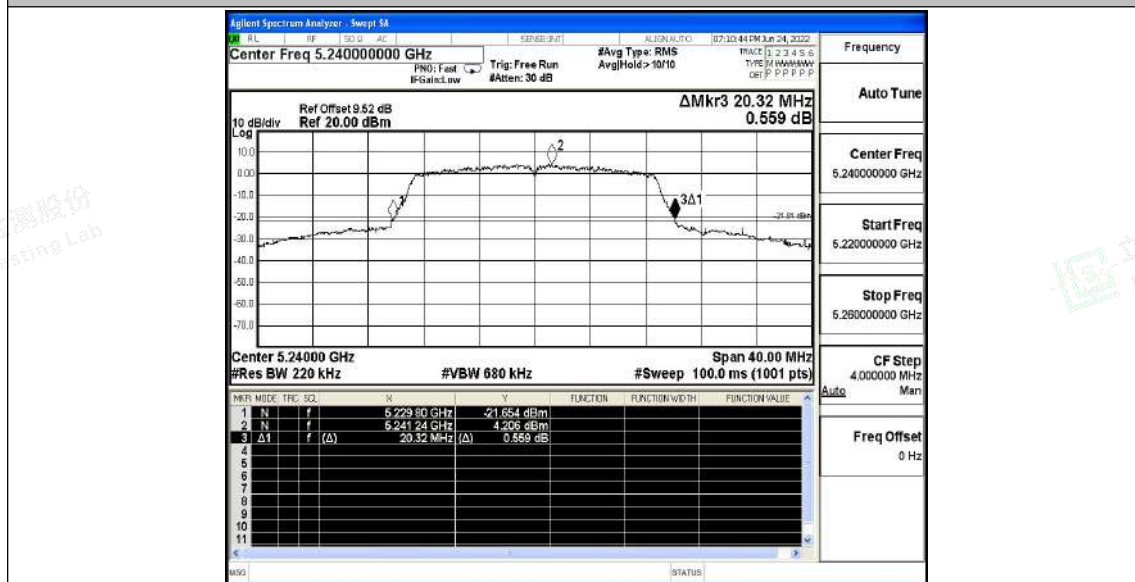
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11N20SISO_Ant1_5240



11N40SISO_Ant1_5190

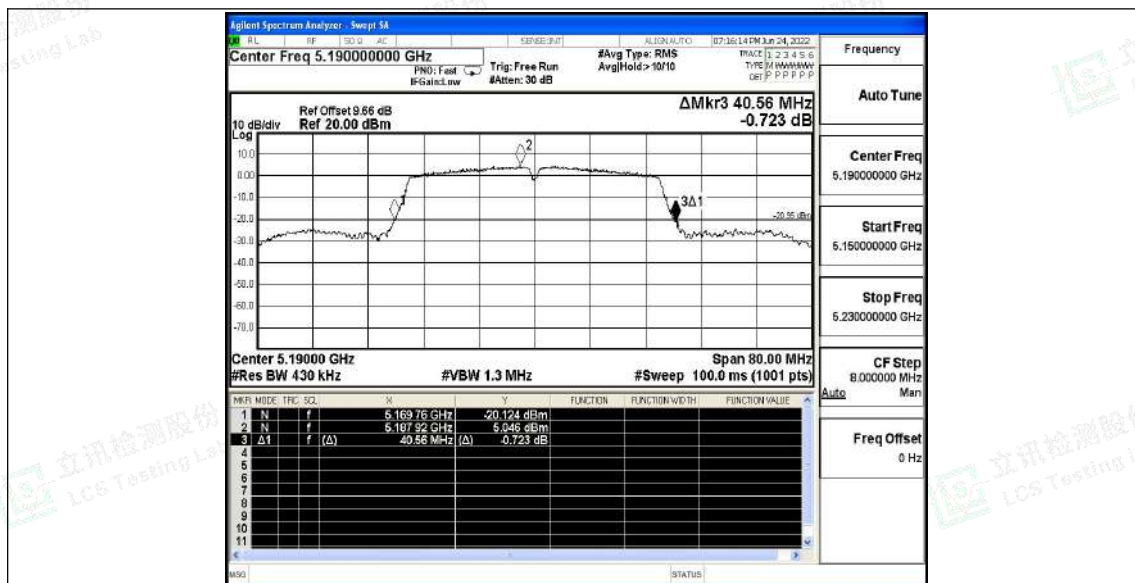


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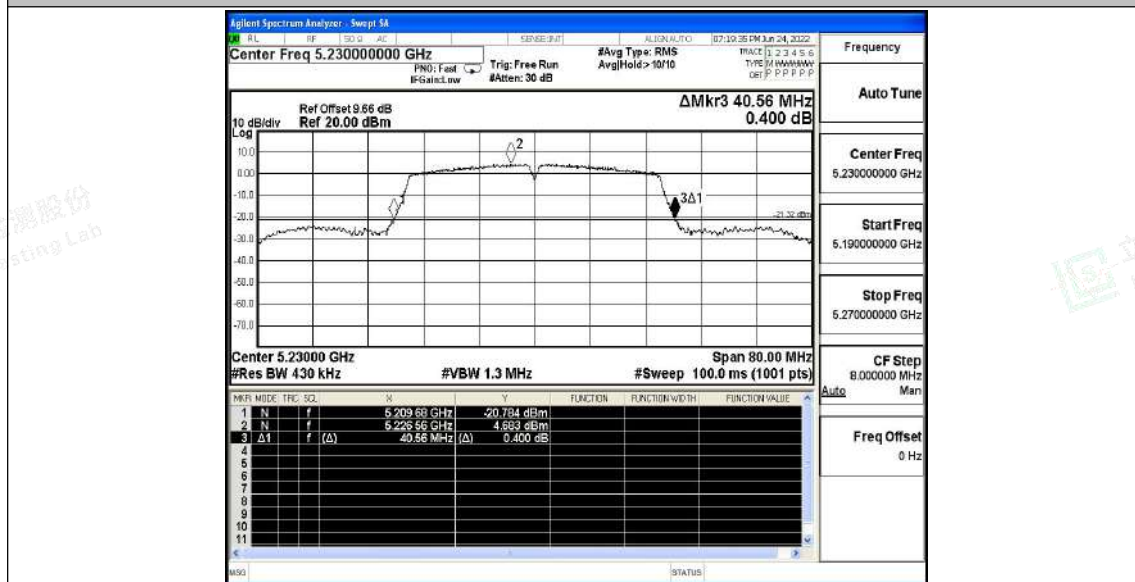
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11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

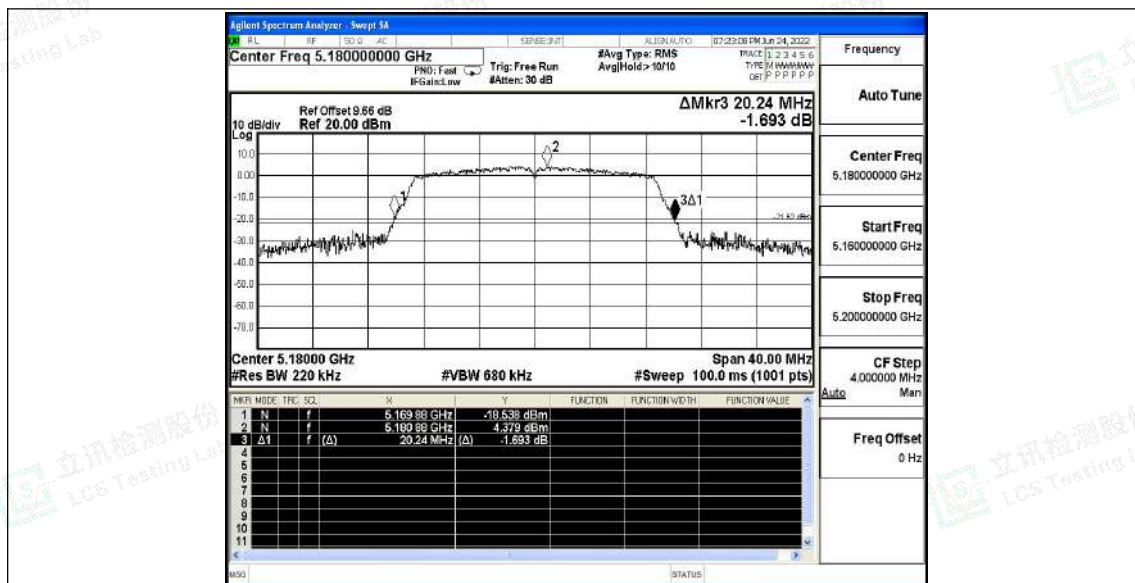


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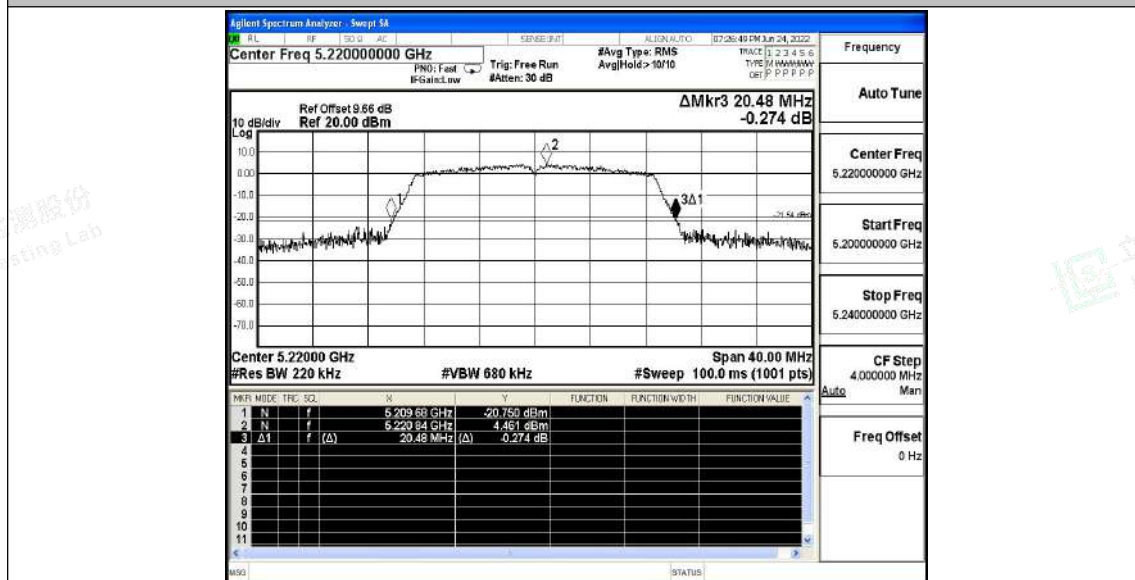
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11AC20SISO_Ant1_5220



11AC20SISO_Ant1_5240

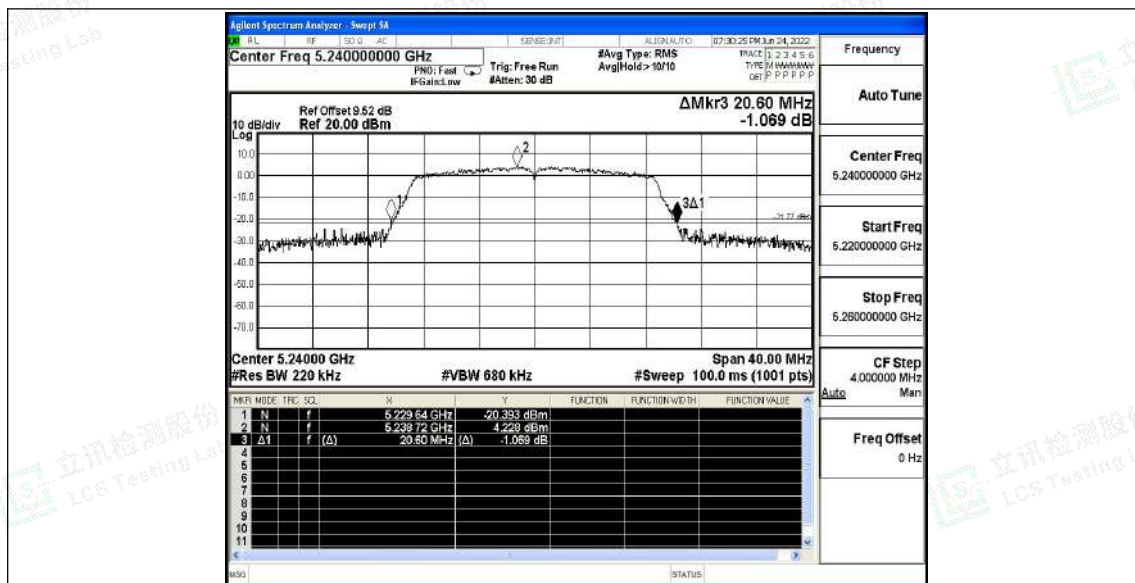


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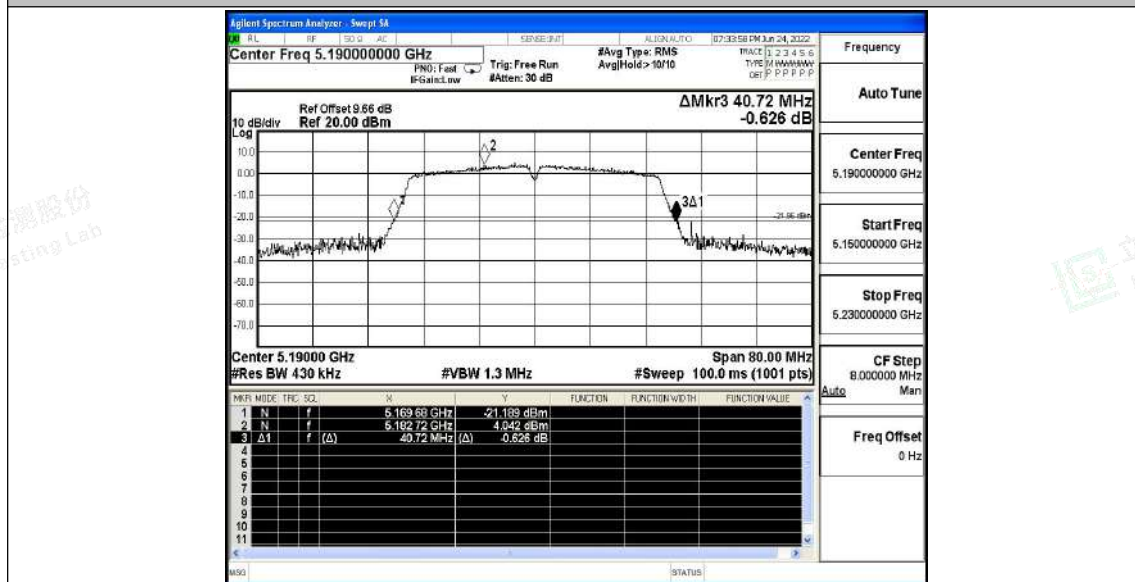
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11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

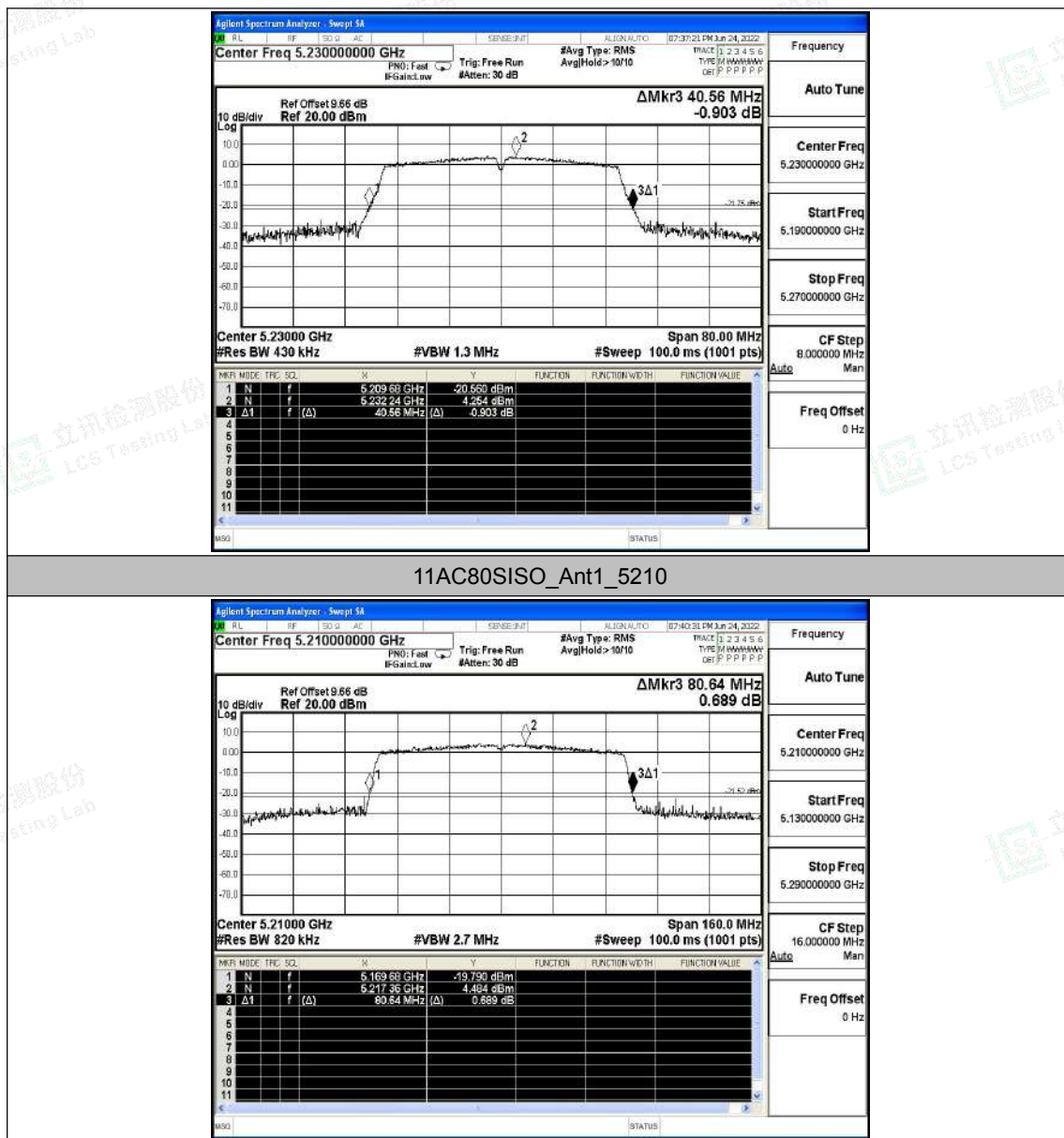


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C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	13.78	≤23.98	PASS
		5220	13.82	≤23.98	PASS
		5240	13.91	≤23.98	PASS
11N20SISO	Ant1	5180	13.68	≤23.98	PASS
		5220	13.61	≤23.98	PASS
		5240	13.65	≤23.98	PASS
11N40SISO	Ant1	5190	13.56	≤23.98	PASS
		5230	13.53	≤23.98	PASS
11AC20SISO	Ant1	5180	13.47	≤23.98	PASS
		5220	13.44	≤23.98	PASS
		5240	13.52	≤23.98	PASS
11AC40SISO	Ant1	5190	12.90	≤23.98	PASS
		5230	13.02	≤23.98	PASS
11AC80SISO	Ant1	5210	12.95	≤23.98	PASS

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



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C.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	3.5	≤11.00	PASS
		5220	3.44	≤11.00	PASS
		5240	3.53	≤11.00	PASS
11N20SISO	Ant1	5180	3.07	≤11.00	PASS
		5220	3.02	≤11.00	PASS
		5240	3.09	≤11.00	PASS
11N40SISO	Ant1	5190	0.05	≤11.00	PASS
		5230	0.01	≤11.00	PASS
11AC20SISO	Ant1	5180	2.86	≤11.00	PASS
		5220	2.83	≤11.00	PASS
		5240	2.97	≤11.00	PASS
11AC40SISO	Ant1	5190	-0.6	≤11.00	PASS
		5230	-0.46	≤11.00	PASS
11AC80SISO	Ant1	5210	-3.67	≤11.00	PASS

Note: 1.The Duty Cycle Factor is compensated in the graph.



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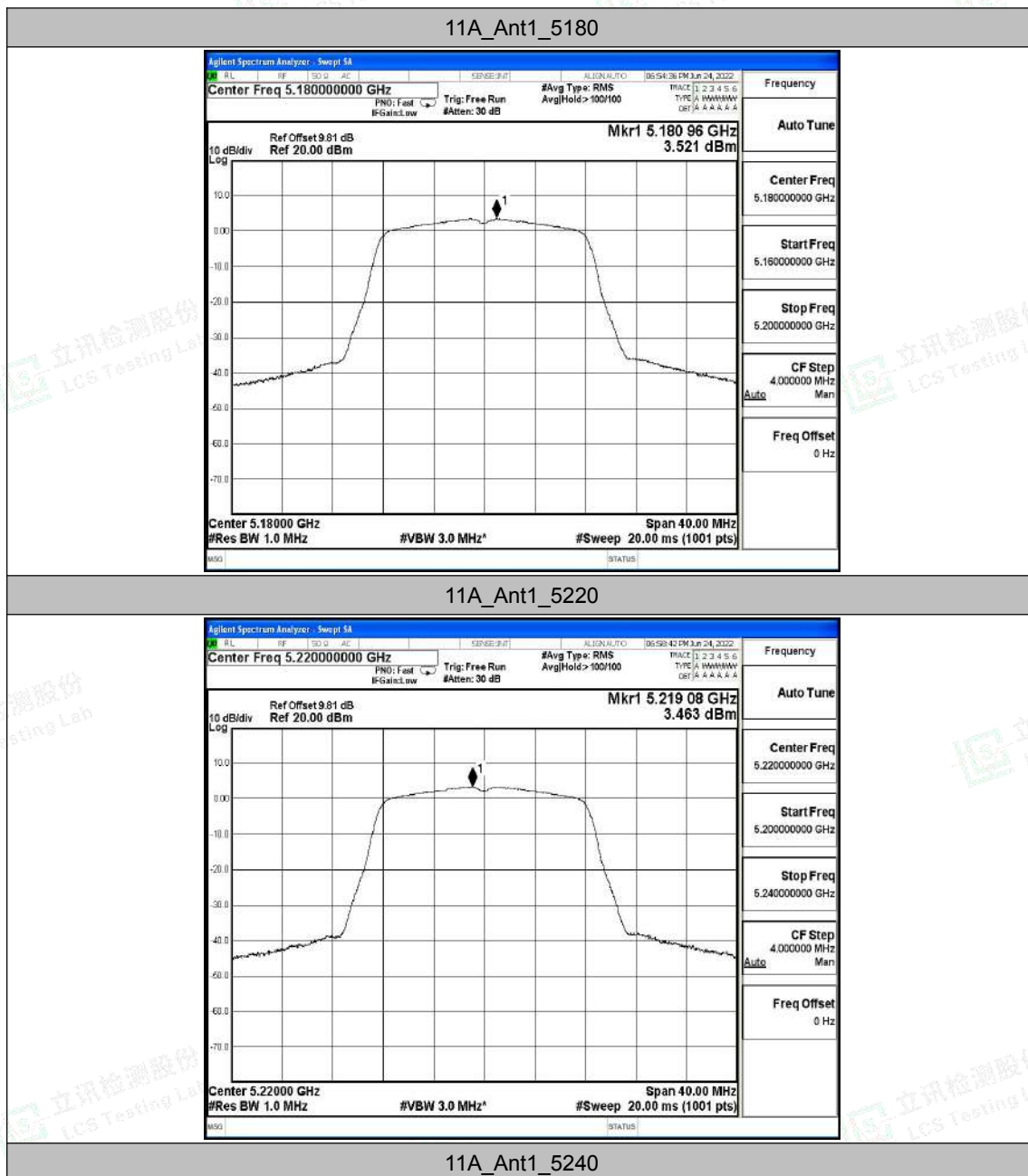
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Test Graphs

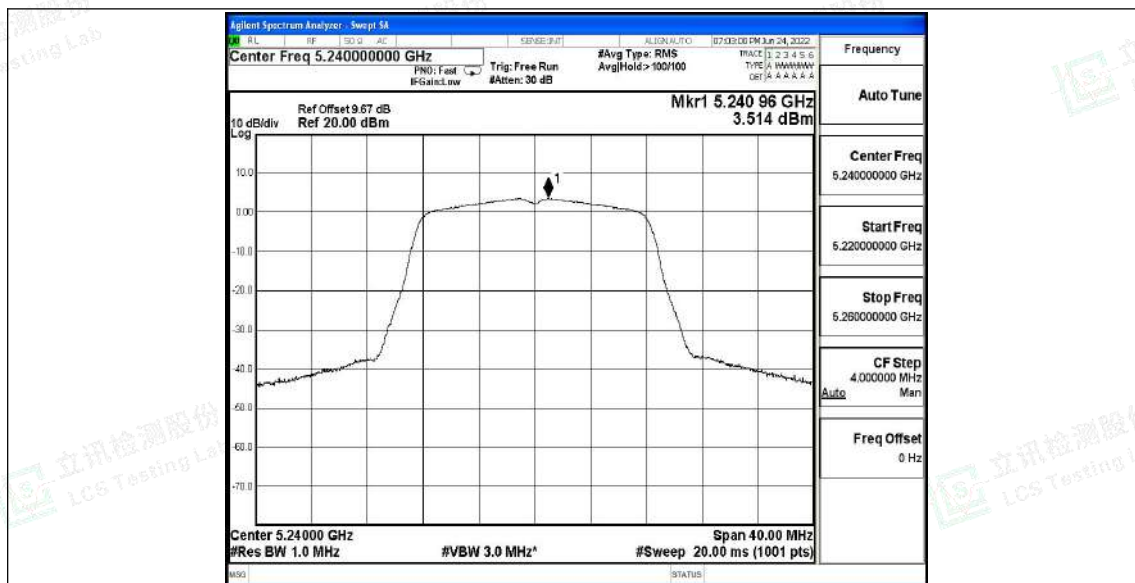


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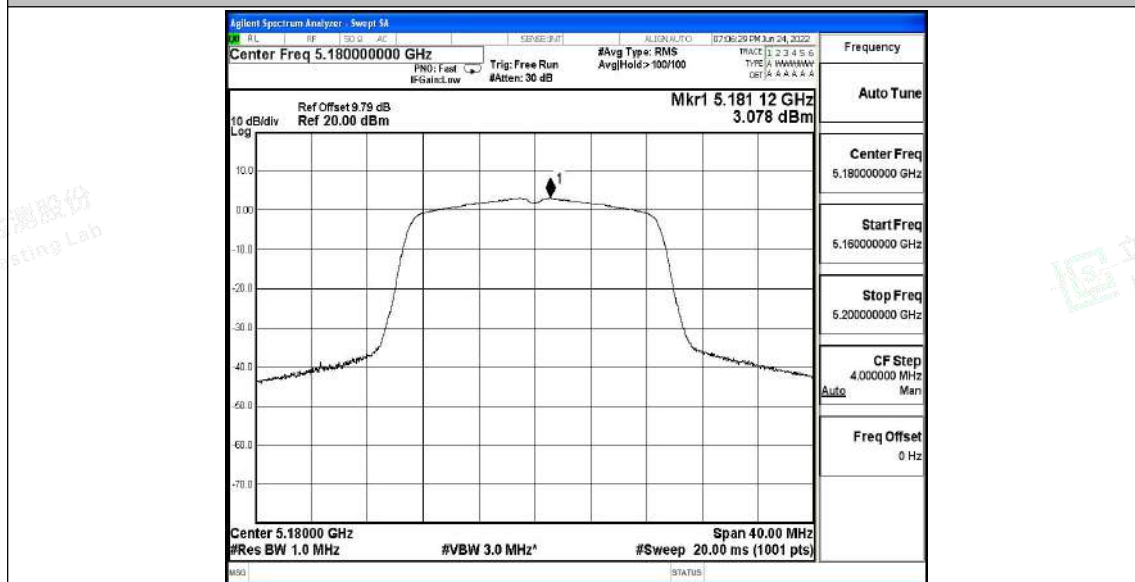
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11N20SISO_Ant1_5180



11N20SISO_Ant1_5220

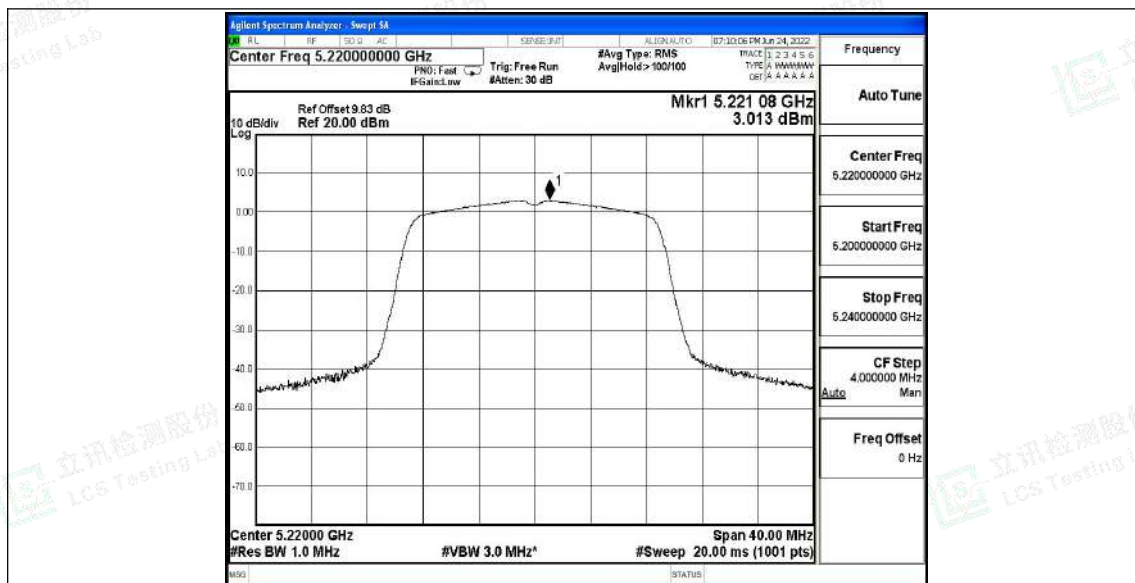


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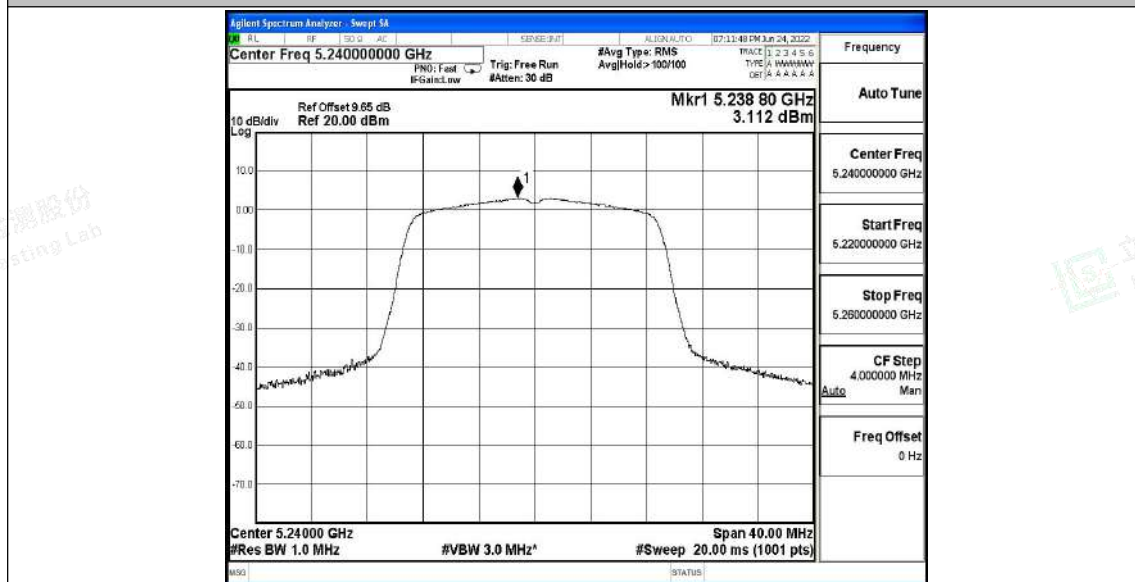
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11N20SISO_Ant1_5240



11N40SISO_Ant1_5190

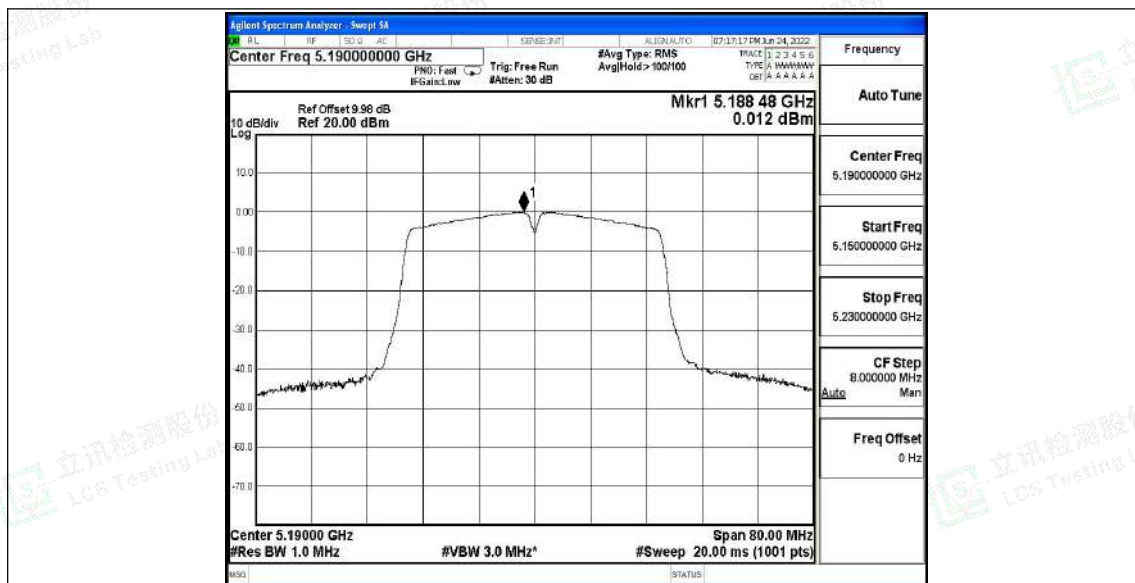


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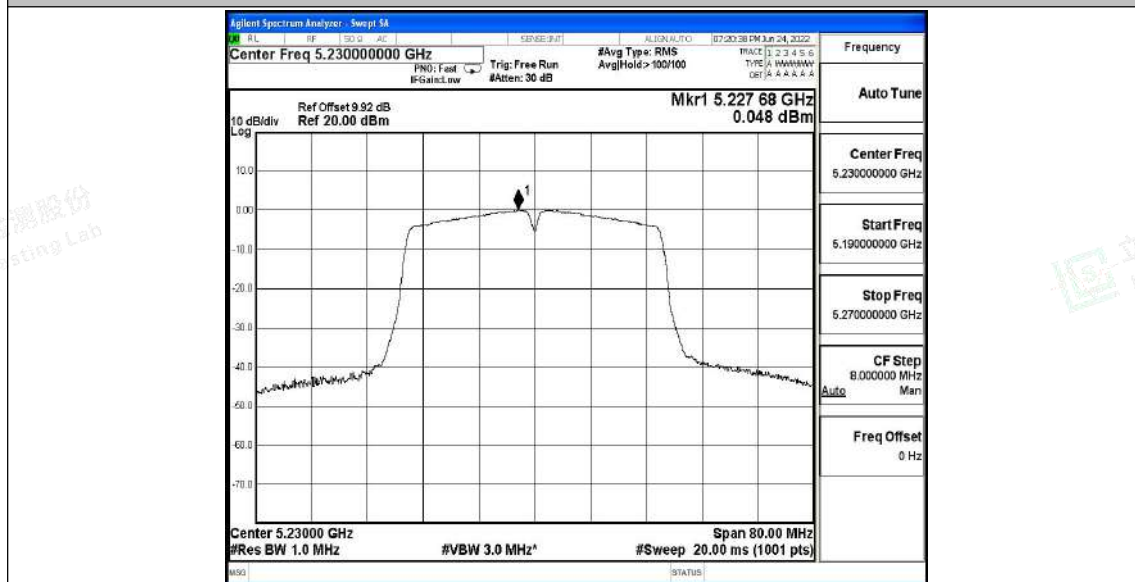
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11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

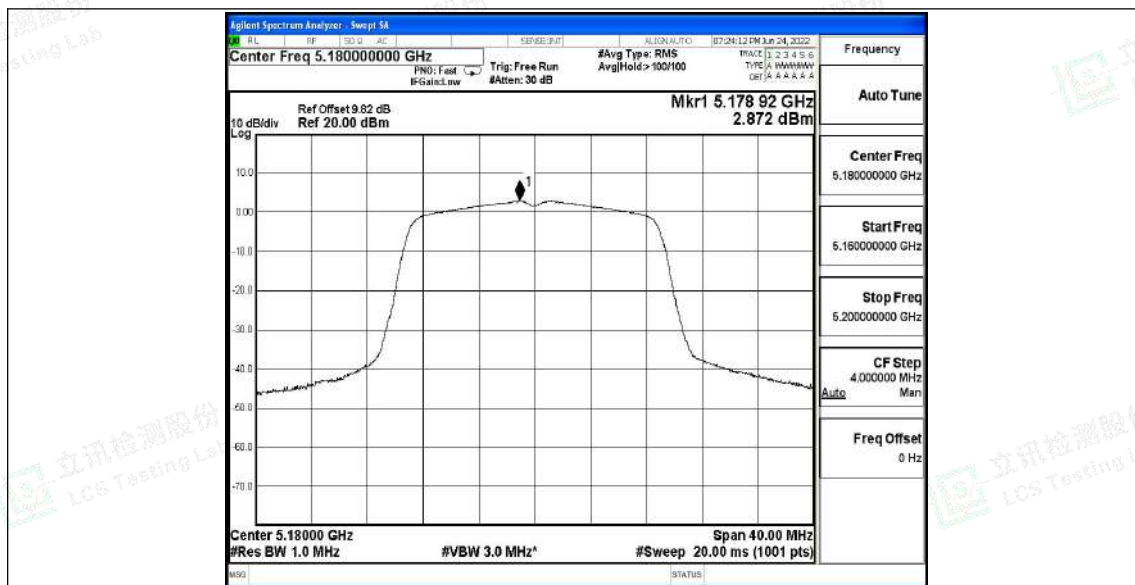


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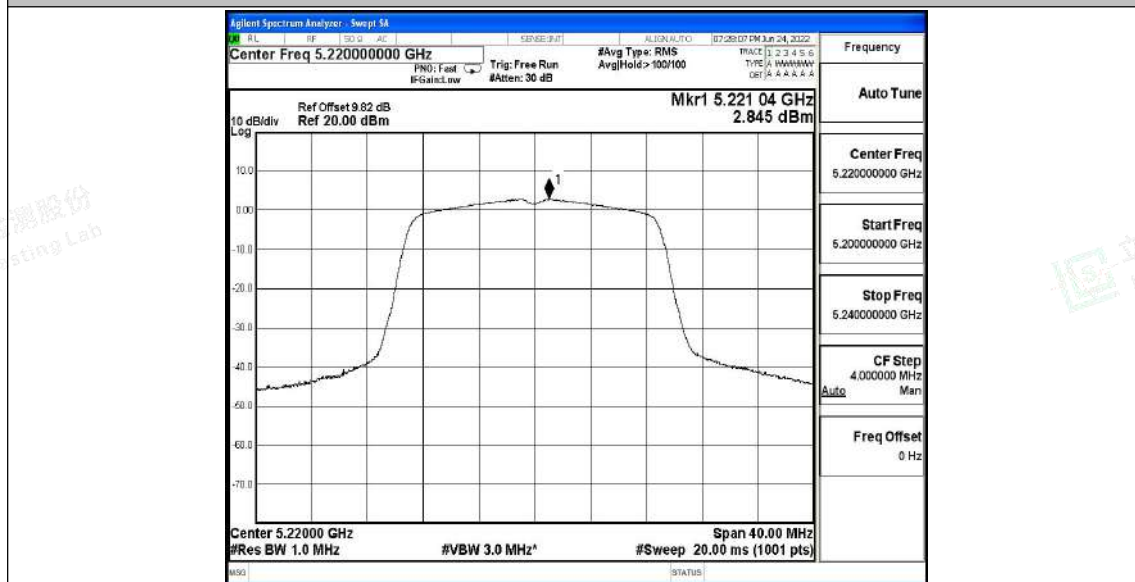
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11AC20SISO_Ant1_5220



11AC20SISO_Ant1_5240

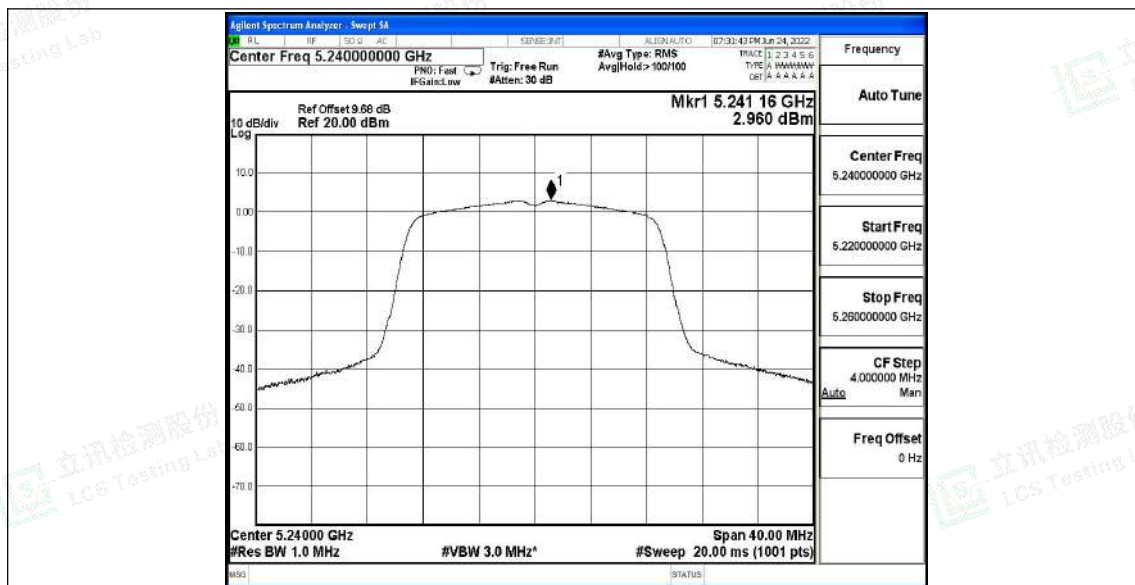


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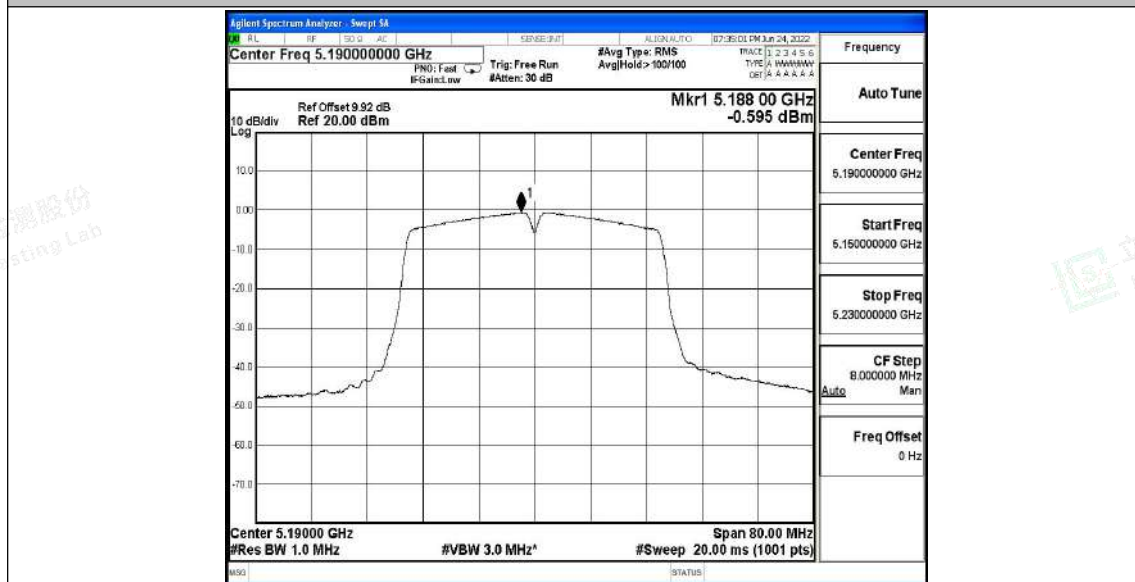
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11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

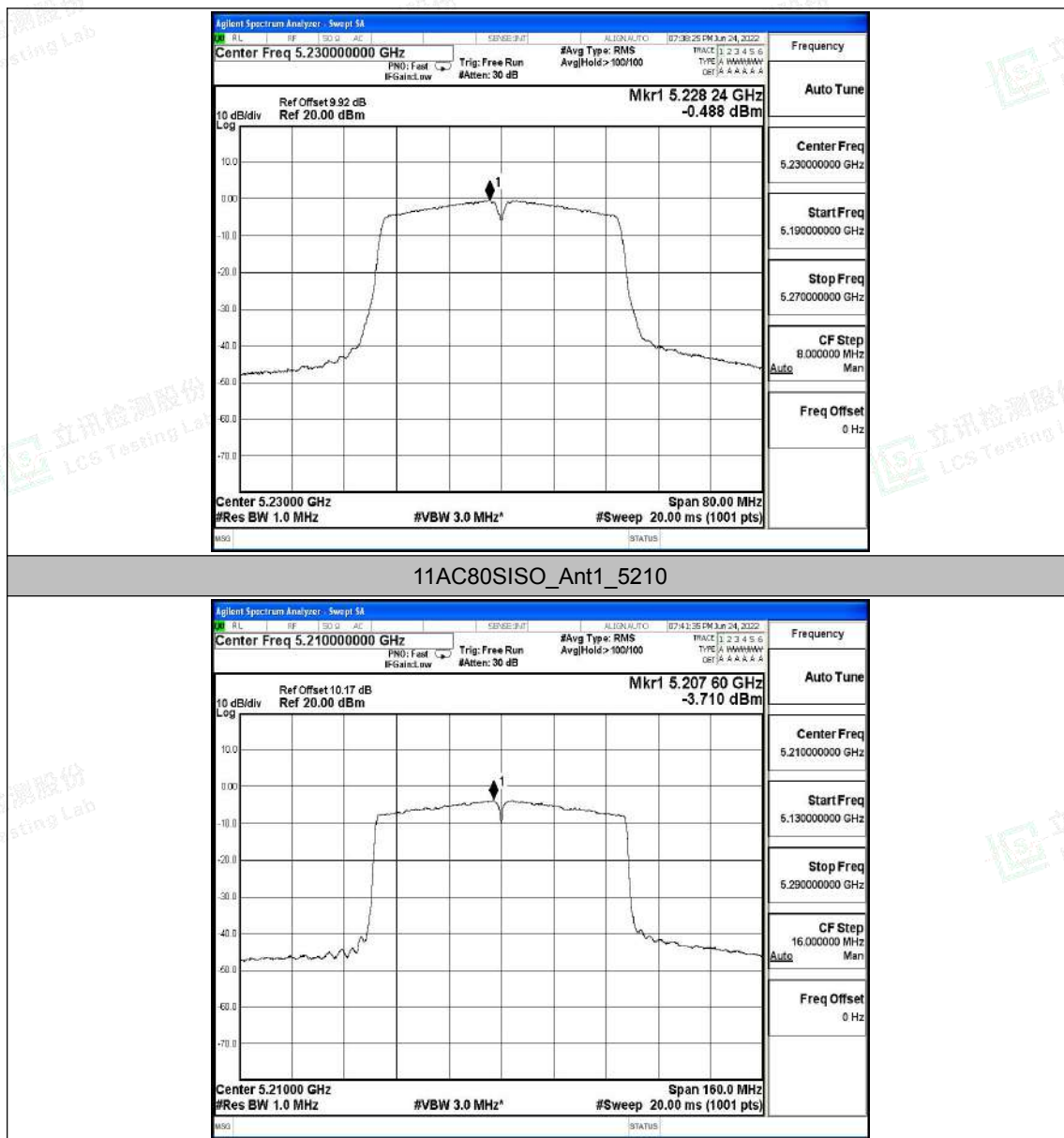


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C.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-48.69	≤-41.20	46.51	≤54	PASS
				AV	5148.900	-42.95	≤-41.20	52.25	≤54	PASS
				AV	5150.000	-42.71	≤-41.20	52.49	≤54	PASS
				Peak	4500.000	-39.49	≤-21.20	55.71	≤68.2	PASS
				Peak	5147.500	-30.33	≤-21.20	64.87	≤68.2	PASS
				Peak	5150.000	-30.42	≤-21.20	64.78	≤68.2	PASS
		High	5240	AV	5350.000	-47.04	≤-41.20	48.16	≤54	PASS
				AV	5352.480	-46.84	≤-41.20	48.36	≤54	PASS
				AV	5460.000	-47.61	≤-41.20	47.59	≤54	PASS
				Peak	5350.000	-39.46	≤-21.20	55.74	≤68.2	PASS
				Peak	5393.040	-36.39	≤-21.20	58.81	≤68.2	PASS
				Peak	5460.000	-39	≤-21.20	56.20	≤68.2	PASS
11N20SIS O	Ant1	Low	5180	AV	4500.000	-48.71	≤-41.20	46.49	≤54	PASS
				AV	5148.900	-42.72	≤-41.20	52.48	≤54	PASS
				AV	5150.000	-42.69	≤-41.20	52.51	≤54	PASS
				Peak	4500.000	-39.39	≤-21.20	55.81	≤68.2	PASS
				Peak	5148.200	-28.68	≤-21.20	66.52	≤68.2	PASS
				Peak	5150.000	-28.98	≤-21.20	66.22	≤68.2	PASS
		High	5240	AV	5350.000	-47.21	≤-41.20	47.99	≤54	PASS
				AV	5353.200	-46.91	≤-41.20	48.29	≤54	PASS
				AV	5460.000	-47.51	≤-41.20	47.69	≤54	PASS
				Peak	5350.000	-39.68	≤-21.20	55.52	≤68.2	PASS
				Peak	5381.520	-36.92	≤-21.20	58.28	≤68.2	PASS
				Peak	5460.000	-37.47	≤-21.20	57.73	≤68.2	PASS
11N40SIS O	Ant1	Low	5190	AV	4500.000	-48.46	≤-41.20	46.74	≤54	PASS
				AV	4808.700	-46.12	≤-41.20	49.08	≤54	PASS
				AV	5150.000	-46.53	≤-41.20	48.67	≤54	PASS
				Peak	4500.000	-38.69	≤-21.20	56.51	≤68.2	PASS
				Peak	5148.900	-35.75	≤-21.20	59.45	≤68.2	PASS
				Peak	5150.000	-37.85	≤-21.20	57.35	≤68.2	PASS
		High	5230	AV	5350.000	-46.81	≤-41.20	48.39	≤54	PASS
				AV	5350.540	-46.48	≤-41.20	48.72	≤54	PASS
				AV	5460.000	-47.07	≤-41.20	48.13	≤54	PASS



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				Peak	5350.000	-37.39	≤-21.20	57.81	≤68.2	PASS
				Peak	5350.280	-36.51	≤-21.20	58.69	≤68.2	PASS
				Peak	5460.000	-38.4	≤-21.20	56.80	≤68.2	PASS
11AC20SI SO	Ant1	Low	5180	AV	4500.000	-48.61	≤-41.20	46.59	≤54	PASS
				AV	5149.600	-44.3	≤-41.20	50.90	≤54	PASS
				AV	5150.000	-44.53	≤-41.20	50.67	≤54	PASS
				Peak	4500.000	-39.87	≤-21.20	55.33	≤68.2	PASS
				Peak	5147.500	-30.34	≤-21.20	64.86	≤68.2	PASS
				Peak	5150.000	-31.18	≤-21.20	64.02	≤68.2	PASS
		High	5240	AV	5350.000	-47.11	≤-41.20	48.09	≤54	PASS
				AV	5351.280	-46.96	≤-41.20	48.24	≤54	PASS
				AV	5460.000	-47.57	≤-41.20	47.63	≤54	PASS
				Peak	5350.000	-38.84	≤-21.20	56.36	≤68.2	PASS
				Peak	5448.240	-37.03	≤-21.20	58.17	≤68.2	PASS
				Peak	5460.000	-39.59	≤-21.20	55.61	≤68.2	PASS
11AC40SI SO	Ant1	Low	5190	AV	4500.000	-48.36	≤-41.20	46.84	≤54	PASS
				AV	5149.600	-42.08	≤-41.20	53.12	≤54	PASS
				AV	5150.000	-42.43	≤-41.20	52.77	≤54	PASS
				Peak	4500.000	-40.06	≤-21.20	55.14	≤68.2	PASS
				Peak	5146.100	-27.4	≤-21.20	67.80	≤68.2	PASS
				Peak	5150.000	-29.37	≤-21.20	65.83	≤68.2	PASS
		High	5230	AV	5350.000	-46.59	≤-41.20	48.61	≤54	PASS
				AV	5351.580	-46.22	≤-41.20	48.98	≤54	PASS
				AV	5460.000	-47.12	≤-41.20	48.08	≤54	PASS
				Peak	5350.000	-38.79	≤-21.20	56.41	≤68.2	PASS
				Peak	5445.180	-36.4	≤-21.20	58.80	≤68.2	PASS
				Peak	5460.000	-38.75	≤-21.20	56.45	≤68.2	PASS
11AC80SI SO	Ant1	Low	5210	AV	4500.000	-48.07	≤-41.20	47.13	≤54	PASS
				AV	5142.750	-45.5	≤-41.20	49.70	≤54	PASS
				AV	5150.000	-45.6	≤-41.20	49.60	≤54	PASS
				Peak	4500.000	-39.88	≤-21.20	55.32	≤68.2	PASS
				Peak	5149.500	-34.55	≤-21.20	60.65	≤68.2	PASS
				Peak	5150.000	-36.13	≤-21.20	59.07	≤68.2	PASS
		High	5210	AV	5350.000	-46.31	≤-41.20	48.89	≤54	PASS
				AV	5354.720	-45.91	≤-41.20	49.29	≤54	PASS
				AV	5460.000	-46.91	≤-41.20	48.29	≤54	PASS
				Peak	5350.000	-37.7	≤-21.20	57.50	≤68.2	PASS
				Peak	5365.080	-36.21	≤-21.20	58.99	≤68.2	PASS
				Peak	5460.000	-38.42	≤-21.20	56.78	≤68.2	PASS



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Note:

1. The Antenna Gain is compensated in the graph.



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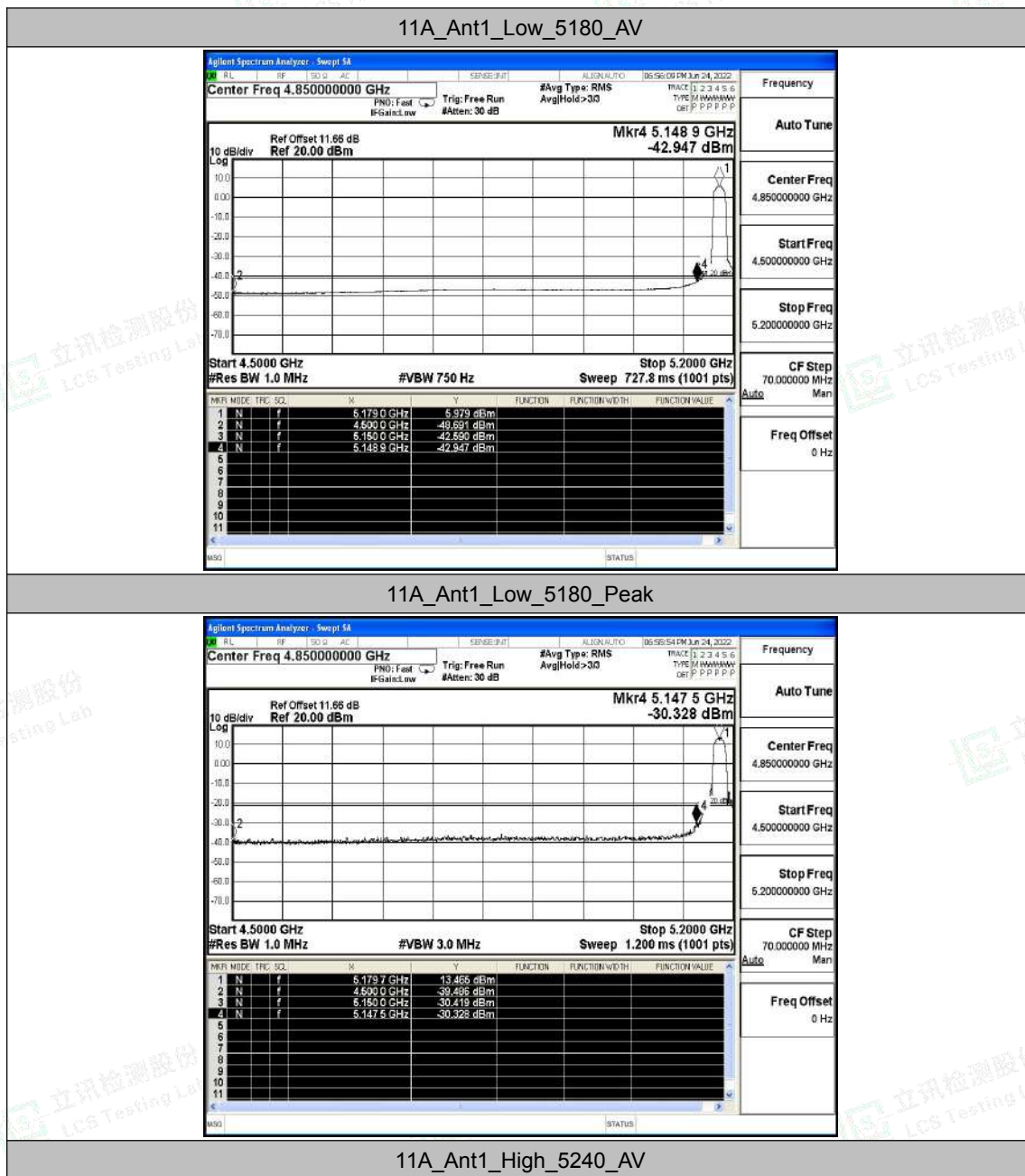
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Test Graphs

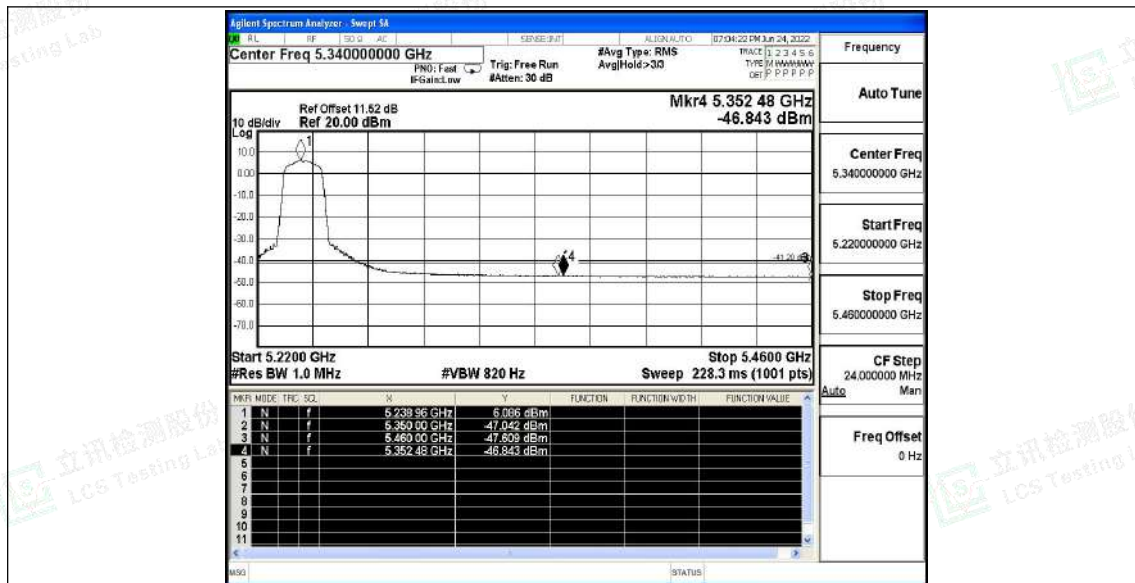


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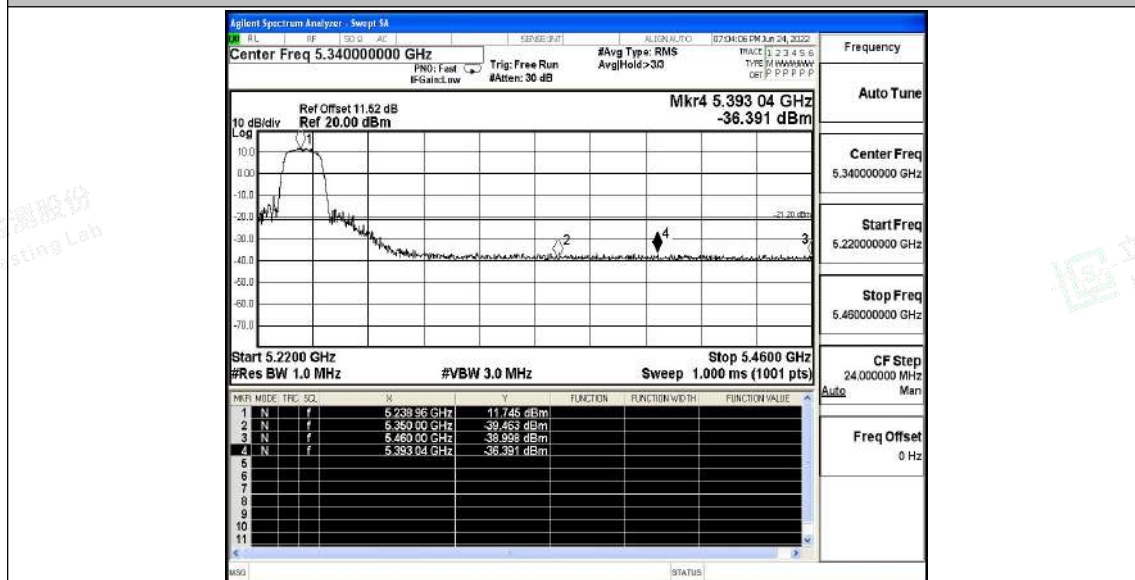
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11A_Ant1_High_5240_Peak



11N20SISO_Ant1_Low_5180_AV

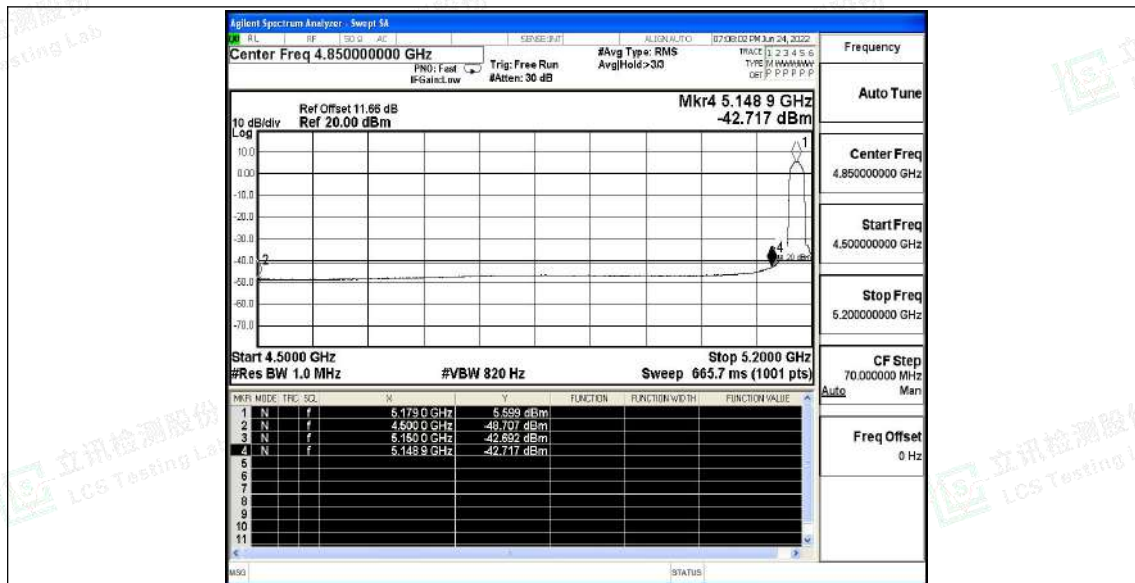


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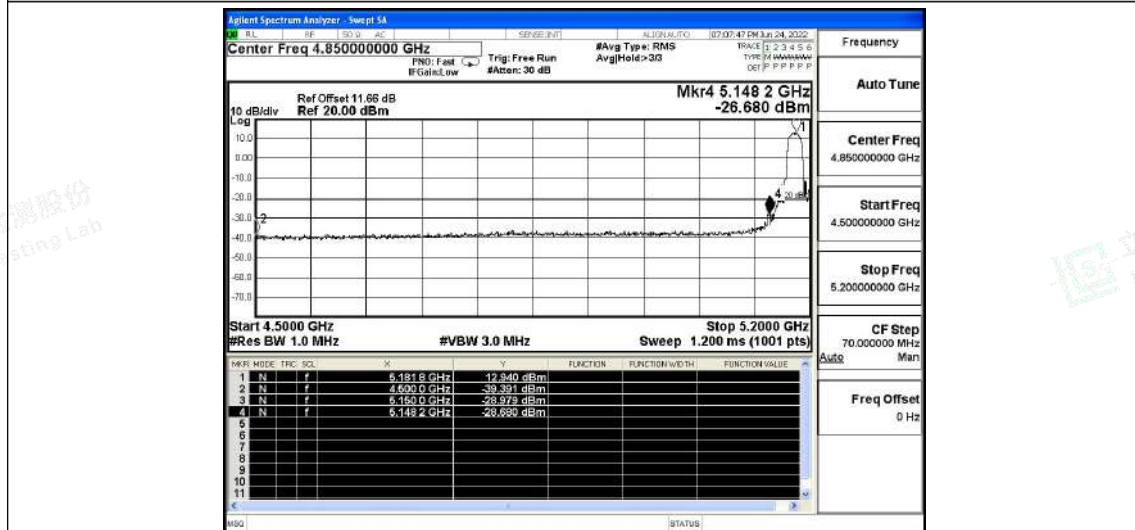
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_Low_5180_Peak



11N20SISO_Ant1_High_5240_AV

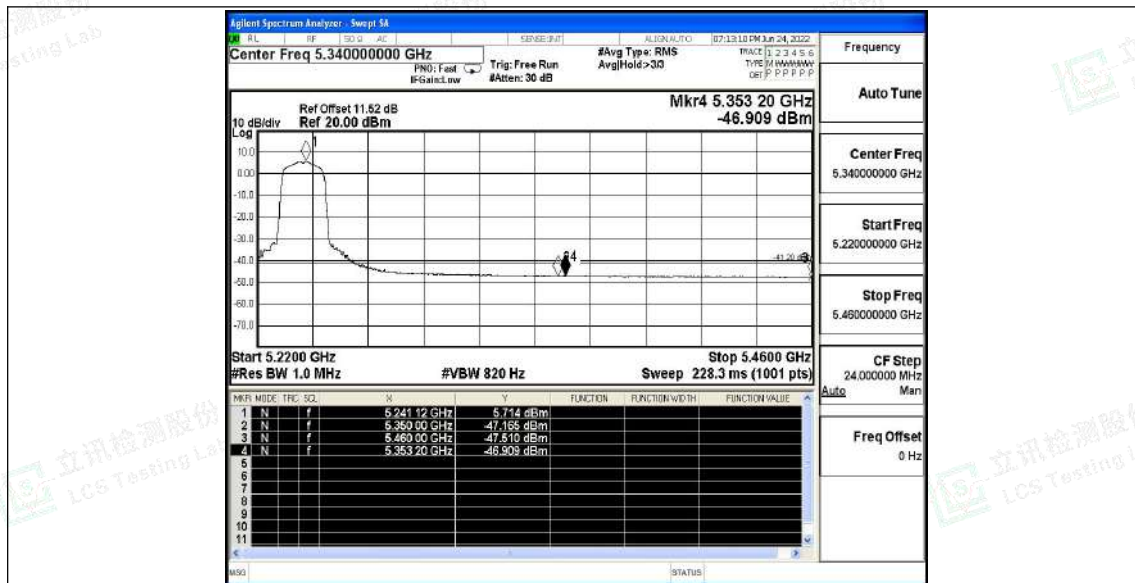


Shenzhen LCS Compliance Testing Laboratory Ltd.

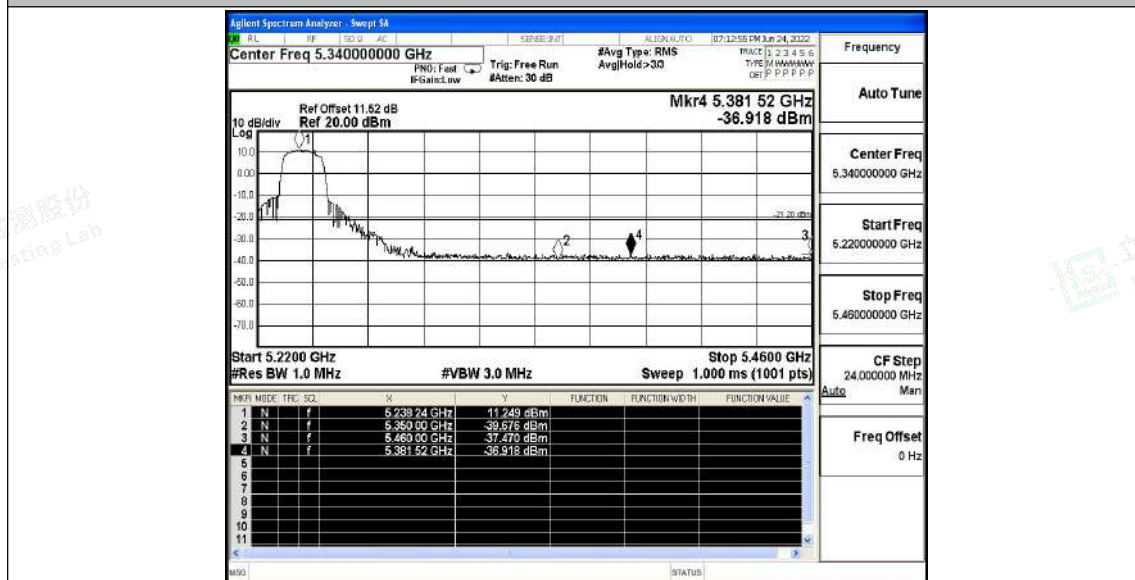
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11N20SISO_Ant1_High_5240_Peak



11N40SISO_Ant1_Low_5190_AV

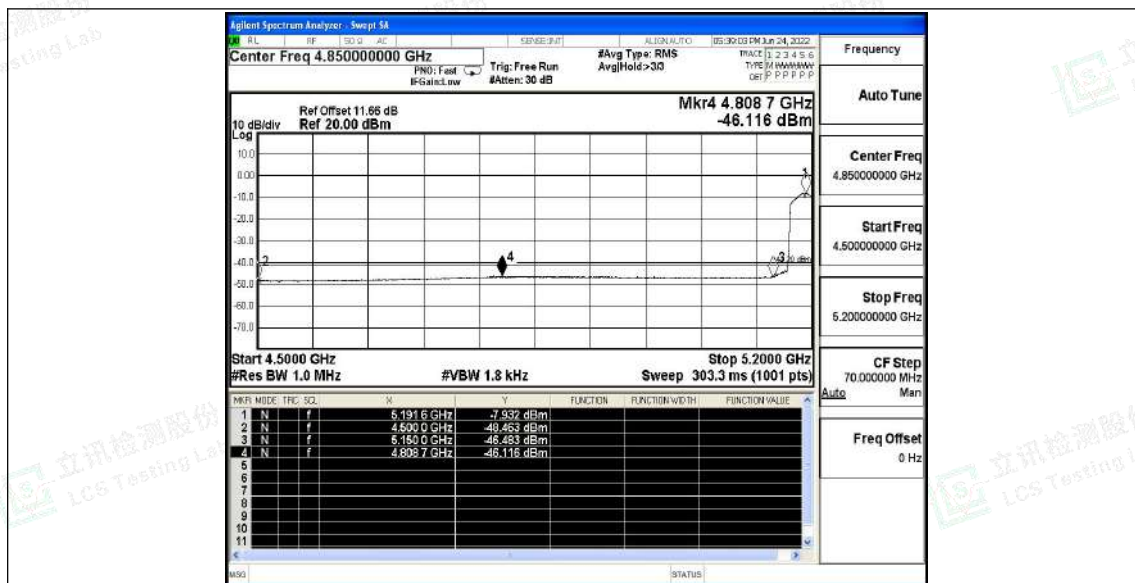


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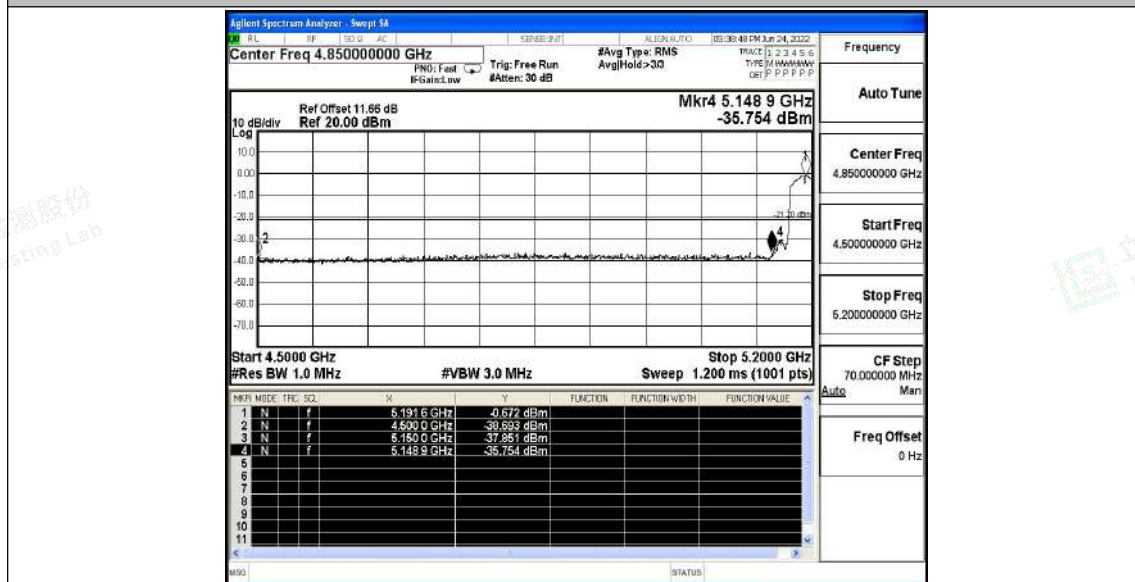
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11N40SISO_Ant1_Low_5190_Peak



11N40SISO_Ant1_High_5230_AV

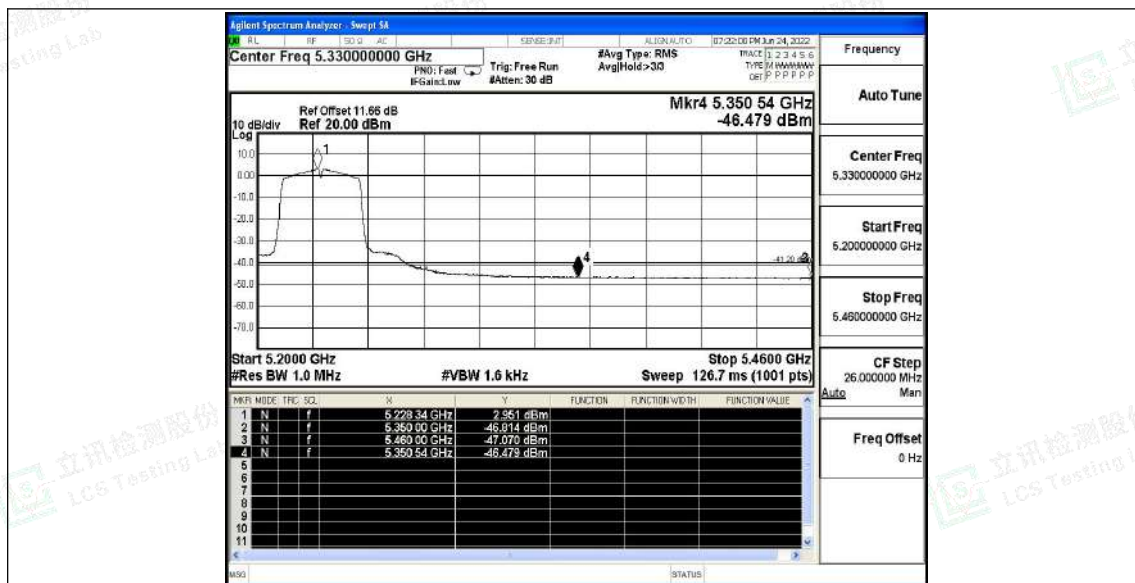


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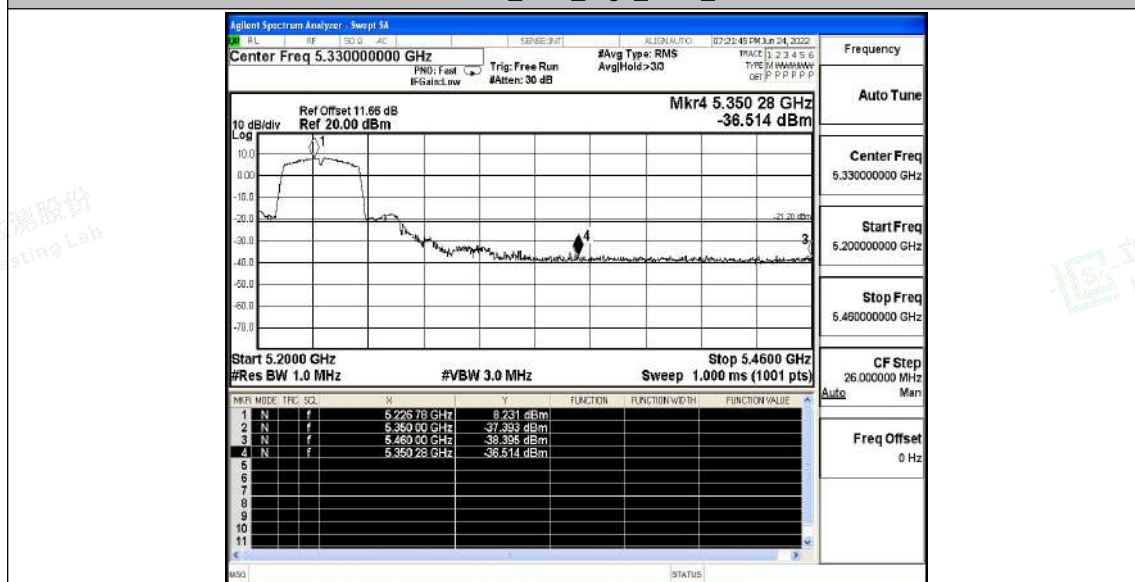
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11N40SISO_Ant1_High_5230_Peak



11AC20SISO_Ant1_Low_5180_AV

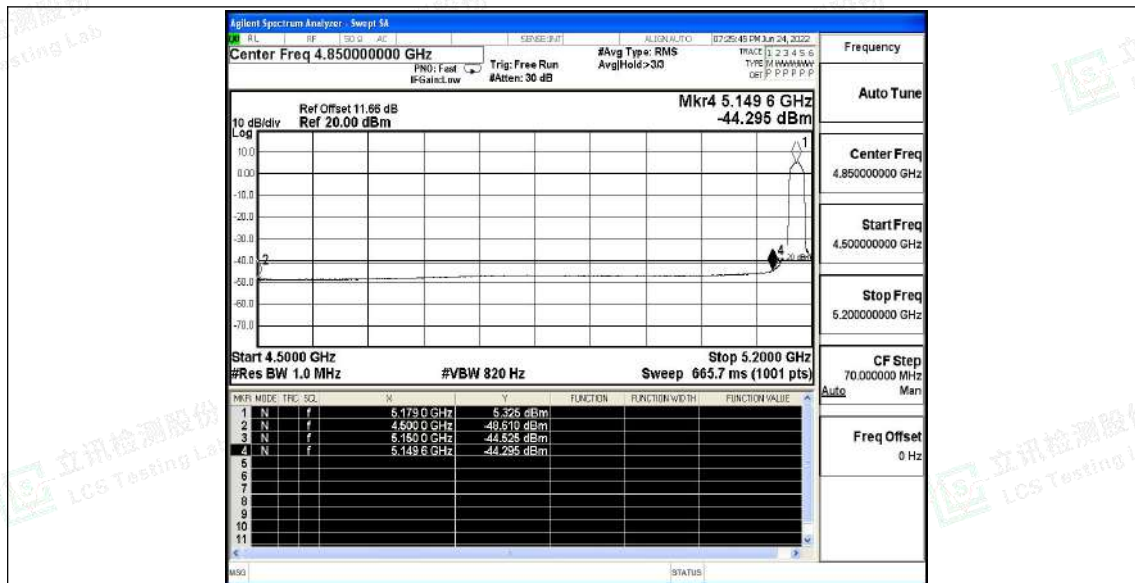


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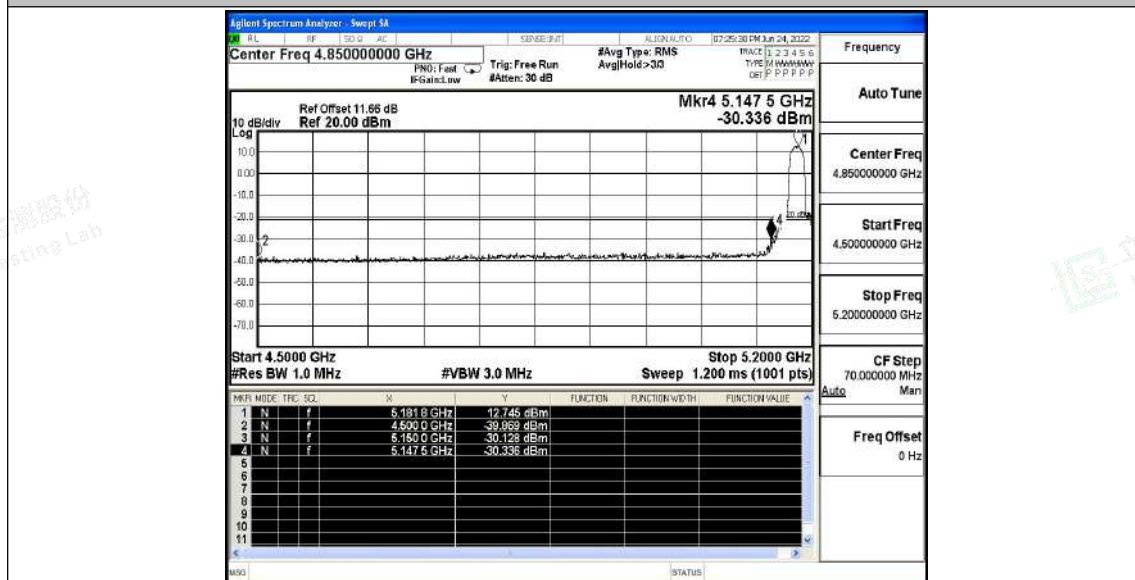
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11AC20SISO_Ant1_Low_5180_Peak



11AC20SISO_Ant1_High_5240_AV

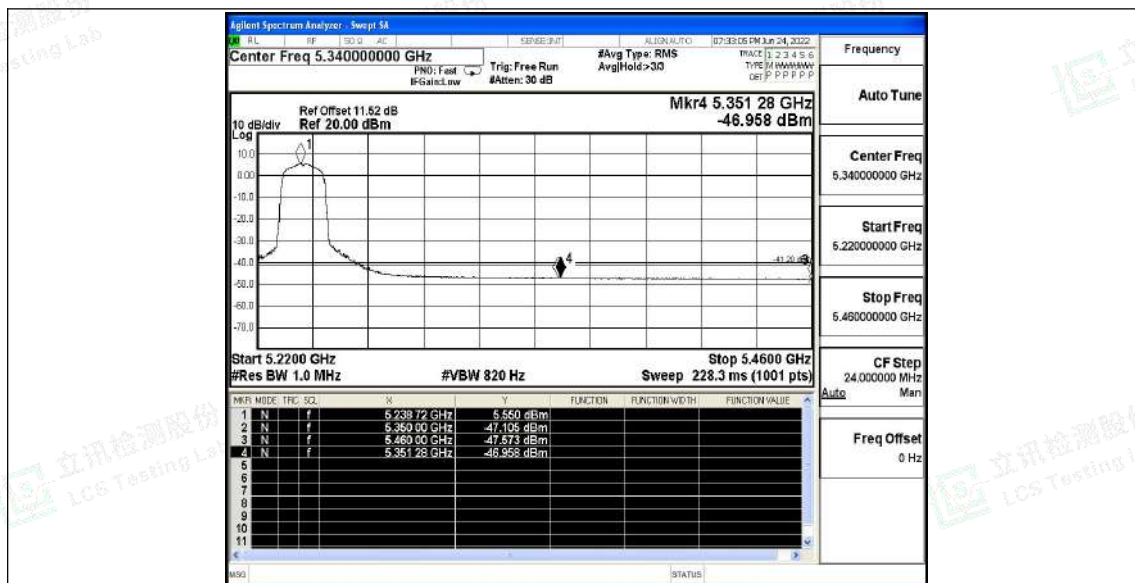


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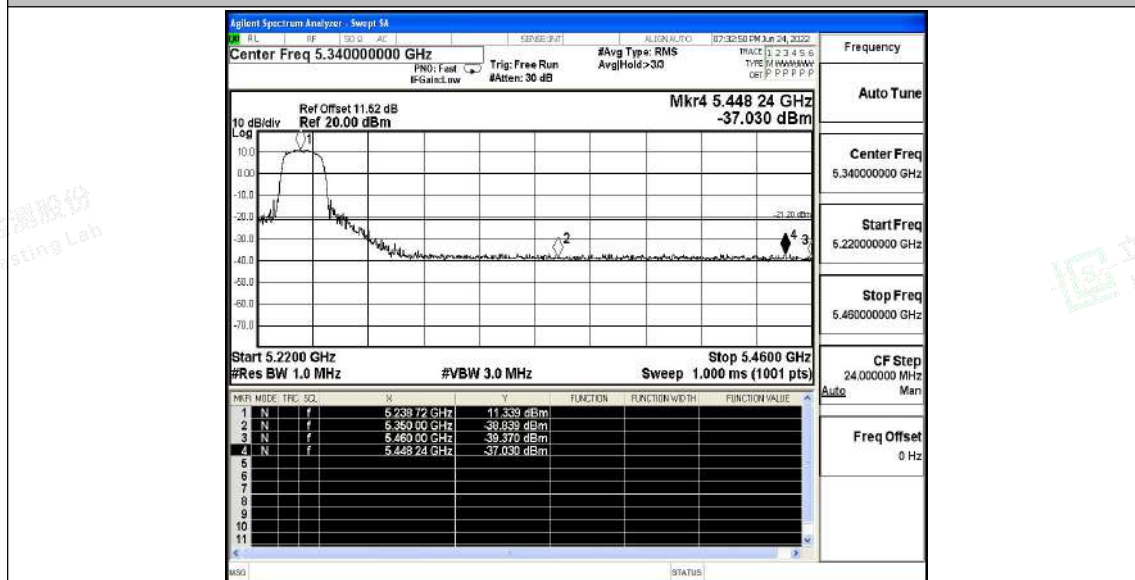
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11AC20SISO_Ant1_High_5240_Peak



11AC40SISO_Ant1_Low_5190_AV

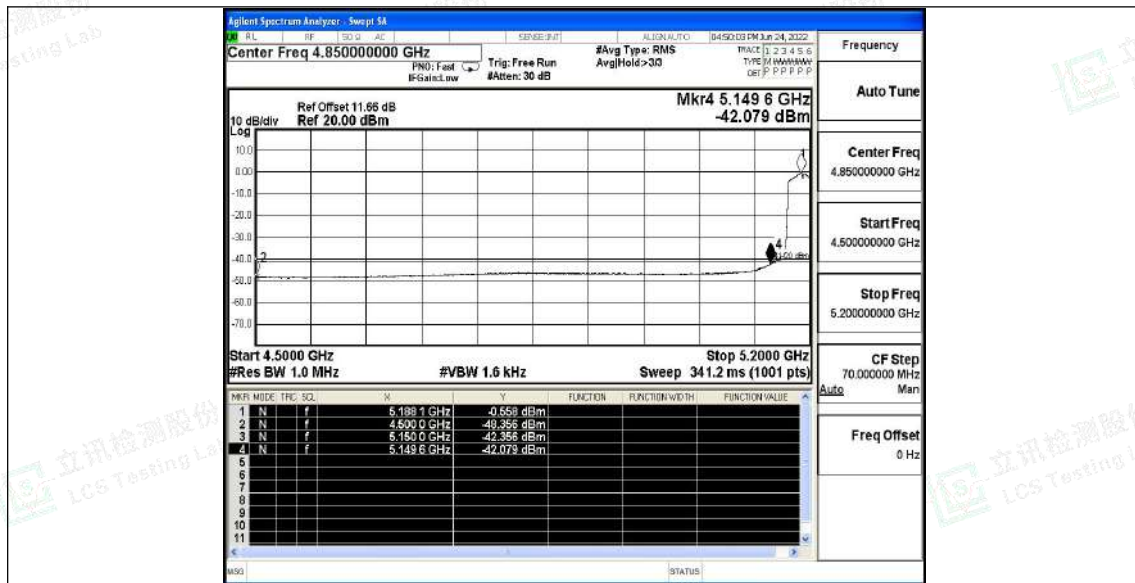


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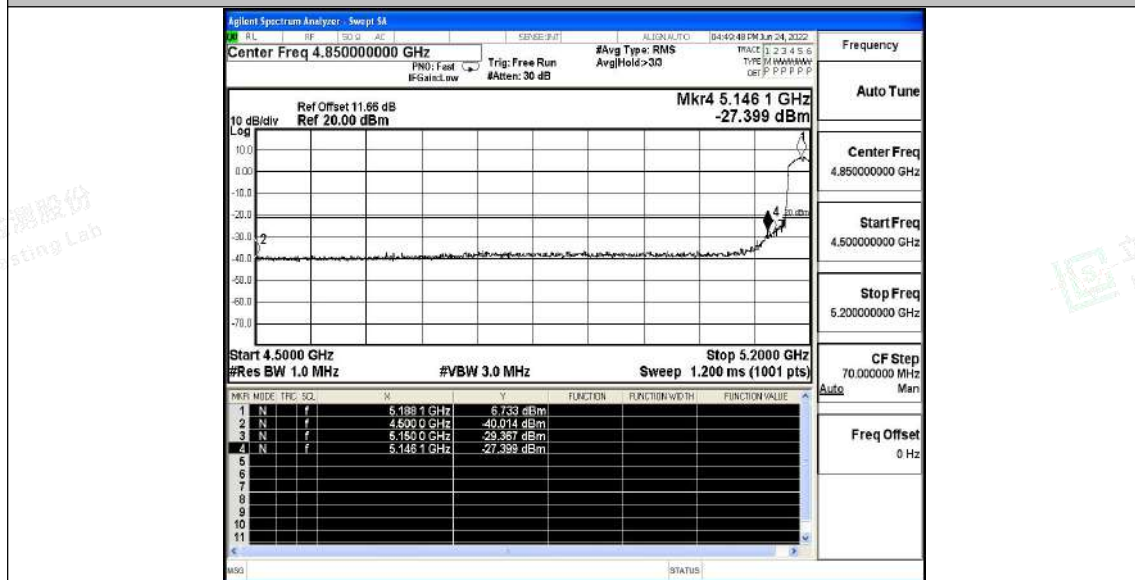
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11AC40SISO_Ant1_Low_5190_Peak



11AC40SISO_Ant1_High_5230_AV

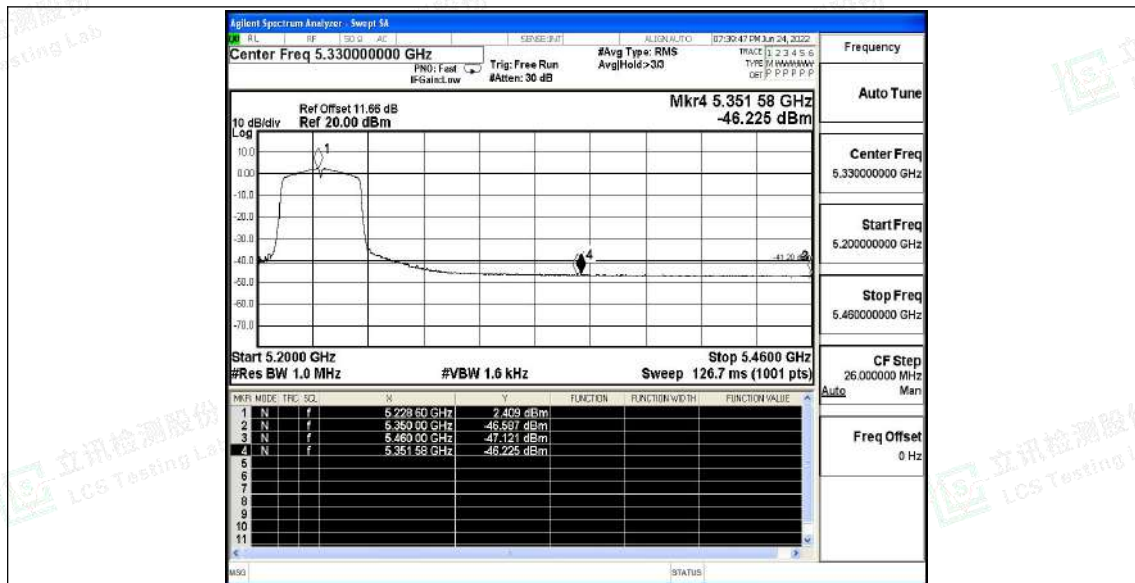


Shenzhen LCS Compliance Testing Laboratory Ltd.

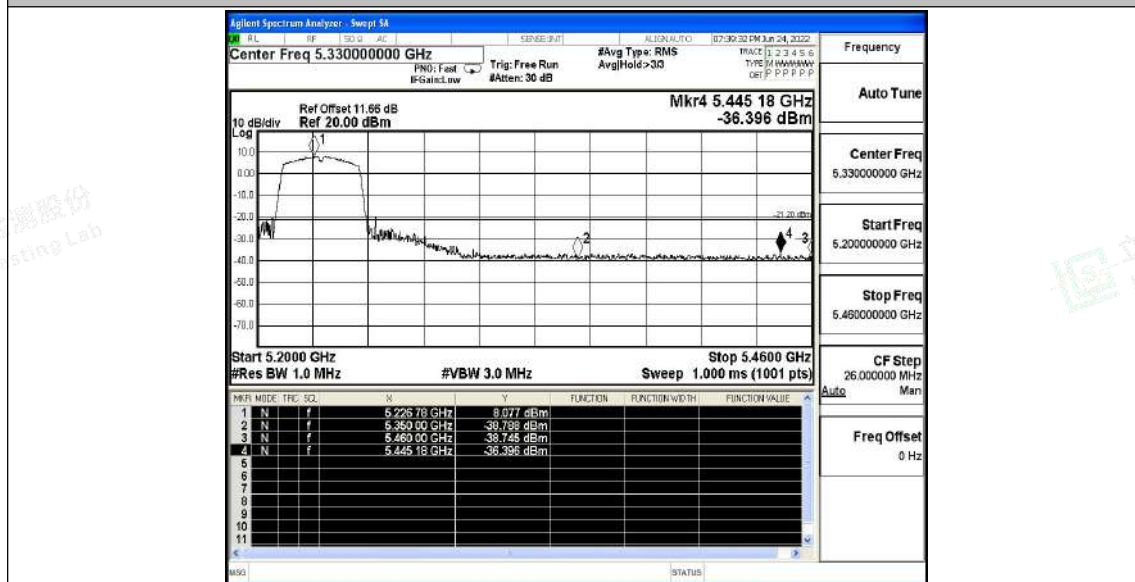
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11AC40SISO_Ant1_High_5230_Peak



11AC80SISO_Ant1_Low_5210_AV

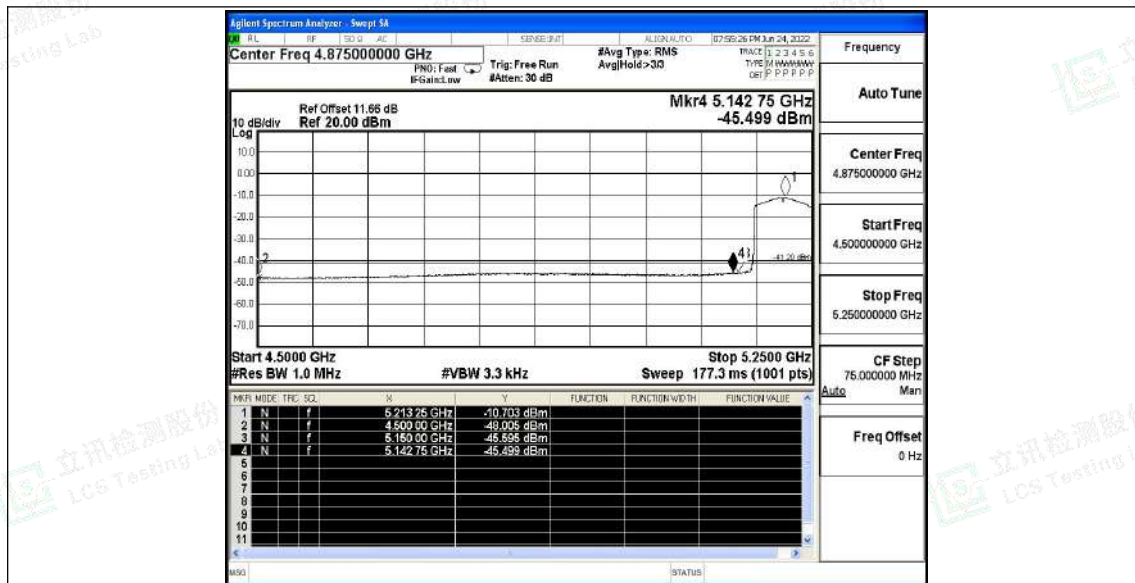


Shenzhen LCS Compliance Testing Laboratory Ltd.

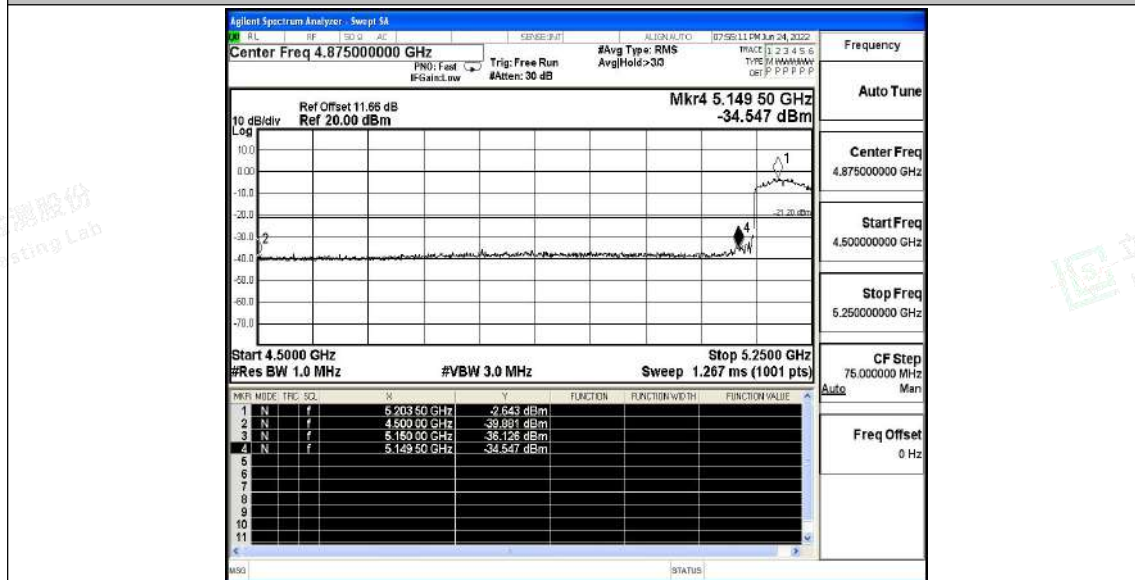
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC80SISO_Ant1_Low_5210_Peak



11AC80SISO_Ant1_High_5210_AV

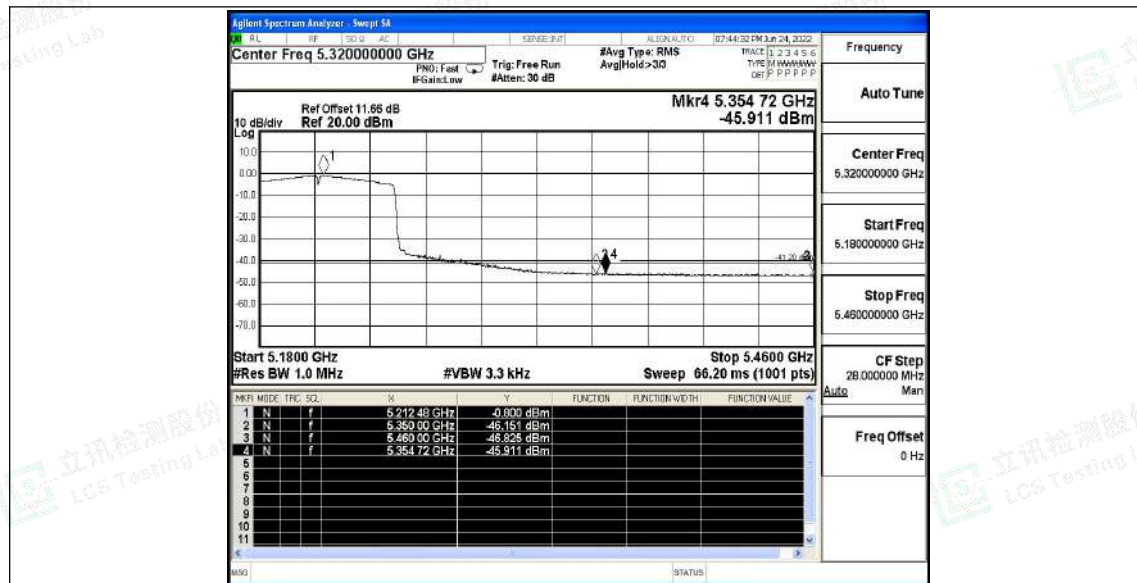


Shenzhen LCS Compliance Testing Laboratory Ltd.

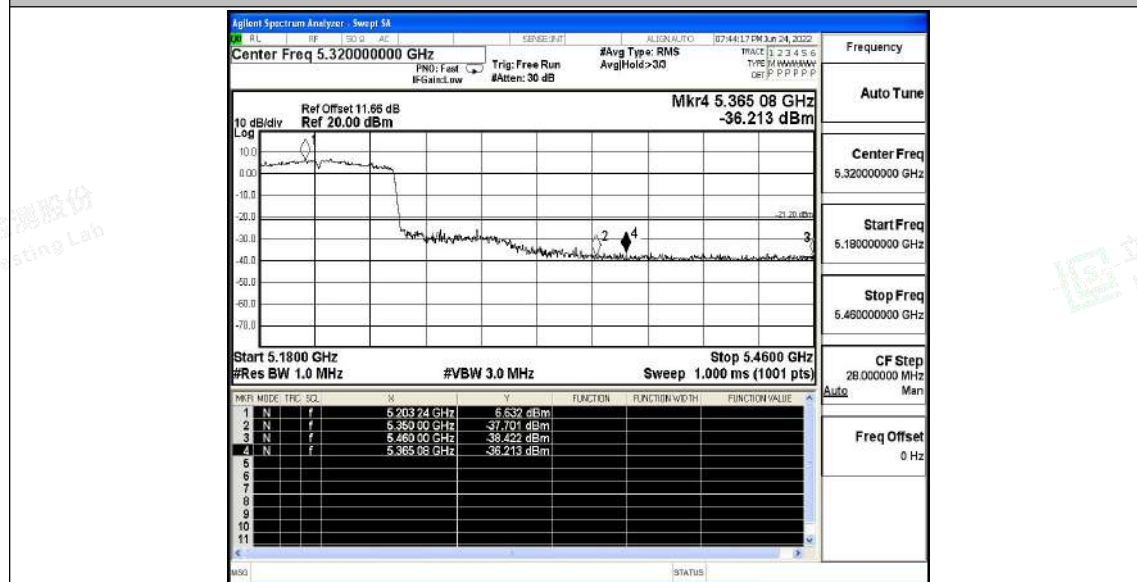
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11AC80SISO_Ant1_High_5210_Peak



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C.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20S ISO	Ant1	5180	NV	NT	-20000	-3.861004	20	PASS
			LV	NT	-20000	-3.861004	20	PASS
			HV	NT	-20000	-3.861004	20	PASS
		5220	NV	NT	-20000	-3.831418	20	PASS
			LV	NT	-20000	-3.831418	20	PASS
			HV	NT	0	0	20	PASS
		5240	NV	NT	0	0	20	PASS
			LV	NT	-40000	-7.633588	20	PASS
			HV	NT	-60000	-11.450382	20	PASS
11AC40S ISO	Ant1	5190	NV	NT	0	0	20	PASS
			LV	NT	40000	7.707129	20	PASS
			HV	NT	40000	7.707129	20	PASS
		5230	NV	NT	-40000	-7.648184	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	0	0	20	PASS
11AC80S ISO	Ant1	5210	NV	NT	0	0	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	80000	15.355086	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20S ISO	Ant1	5180	NV	-30	0	0	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	0	0	20	PASS
			NV	0	-40000	-7.722008	20	PASS
			NV	10	20000	3.861004	20	PASS
			NV	20	-20000	-3.861004	20	PASS
			NV	30	-40000	-7.722008	20	PASS
			NV	40	-60000	-11.583012	20	PASS
			NV	50	-20000	-3.861004	20	PASS
		5220	NV	-30	0	0	20	PASS
			NV	-20	-20000	-3.831418	20	PASS
			NV	-10	-20000	-3.831418	20	PASS



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			NV	0	-20000	-3.831418	20	PASS
			NV	10	-20000	-3.831418	20	PASS
			NV	20	-20000	-3.831418	20	PASS
			NV	30	-20000	-3.831418	20	PASS
			NV	40	-40000	-7.662835	20	PASS
			NV	50	-40000	-7.662835	20	PASS
		5240	NV	-30	0	0	20	PASS
			NV	-20	-20000	-3.816794	20	PASS
			NV	-10	-40000	-7.633588	20	PASS
			NV	0	-40000	-7.633588	20	PASS
			NV	10	-20000	-3.816794	20	PASS
			NV	20	-40000	-7.633588	20	PASS
			NV	30	-20000	-3.816794	20	PASS
			NV	40	-20000	-3.816794	20	PASS
			NV	50	-20000	-3.816794	20	PASS
11AC40S ISO	Ant1	5190	NV	-30	-40000	-7.707129	20	PASS
			NV	-20	-40000	-7.707129	20	PASS
			NV	-10	0	0	20	PASS
			NV	0	-40000	-7.707129	20	PASS
			NV	10	0	0	20	PASS
			NV	20	-40000	-7.707129	20	PASS
			NV	30	-40000	-7.707129	20	PASS
			NV	40	0	0	20	PASS
			NV	50	0	0	20	PASS
		5230	NV	-30	-40000	-7.648184	20	PASS
			NV	-20	-80000	-15.296367	20	PASS
			NV	-10	-40000	-7.648184	20	PASS
			NV	0	-40000	-7.648184	20	PASS
			NV	10	0	0	20	PASS
			NV	20	0	0	20	PASS
			NV	30	40000	7.648184	20	PASS
			NV	40	0	0	20	PASS
			NV	50	0	0	20	PASS
11AC80S ISO	Ant1	5210	NV	-30	0	0	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	0	0	20	PASS
			NV	0	-80000	-15.355086	20	PASS
			NV	10	0	0	20	PASS
			NV	20	-80000	-15.355086	20	PASS
			NV	30	0	0	20	PASS



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		NV	40	0	0	20	PASS
		NV	50	-80000	-15.355086	20	PASS





C.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]	xFactor
11A	Ant1	5180	1.40	1.45	96.55	0.72	0.15
		5220	1.39	1.44	96.53	0.72	0.15
		5240	1.38	1.43	96.50	0.72	0.15
11N20SISO	Ant1	5180	1.30	1.34	97.01	0.74	0.13
		5220	1.29	1.34	96.27	0.74	0.17
		5240	1.30	1.34	97.01	0.74	0.13
11N40SISO	Ant1	5190	0.65	0.70	92.86	1.52	0.32
		5230	0.65	0.69	94.20	1.52	0.24
11AC20SISO	Ant1	5180	1.31	1.36	96.32	0.74	0.16
		5220	1.31	1.36	96.32	0.74	0.16
		5240	1.31	1.36	96.32	0.74	0.16
11AC40SISO	Ant1	5190	0.66	0.70	94.29	1.52	0.26
		5230	0.66	0.70	94.29	1.52	0.26
11AC80SISO	Ant1	5210	0.32	0.36	88.89	3.20	0.51



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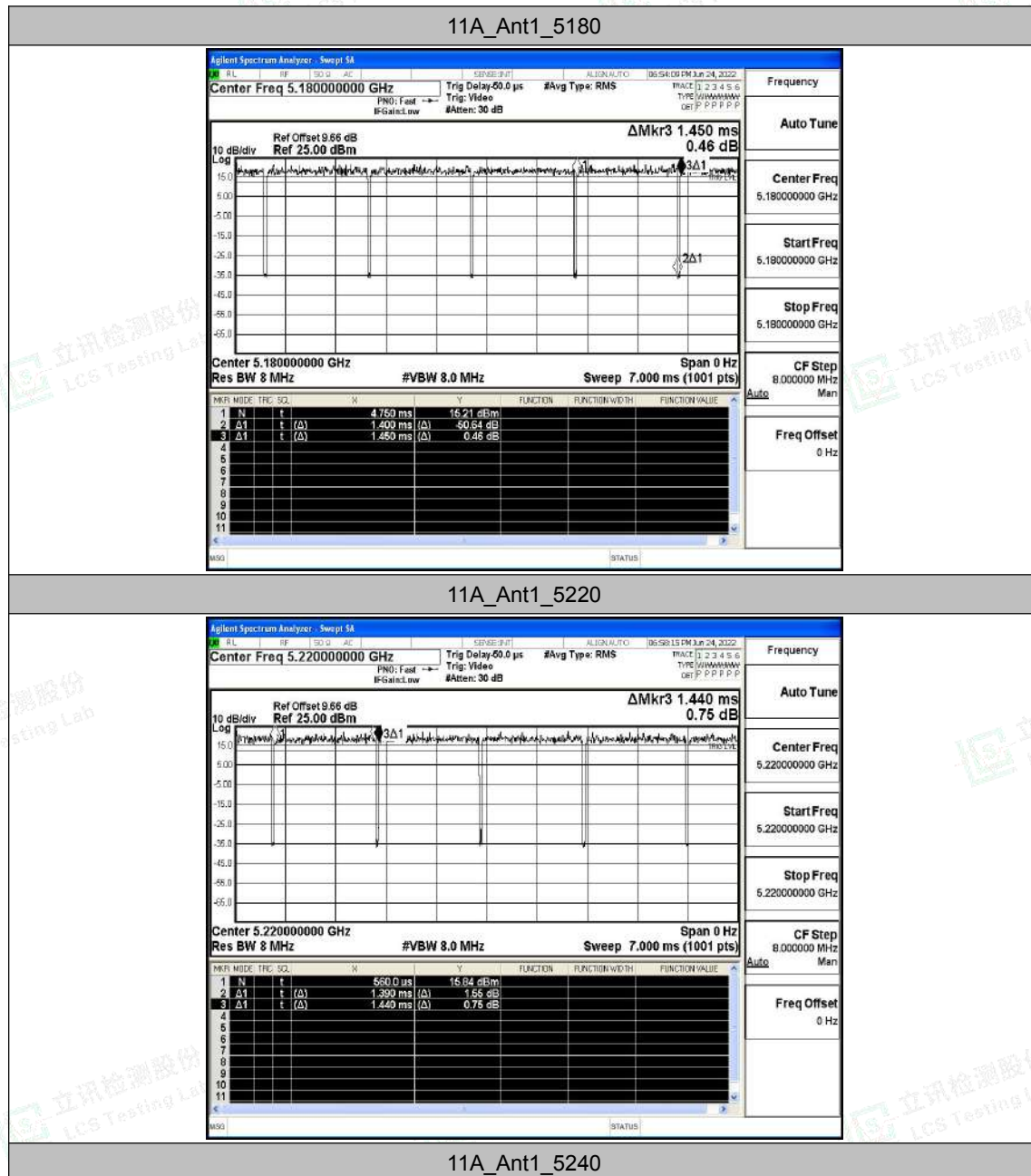
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Test Graphs

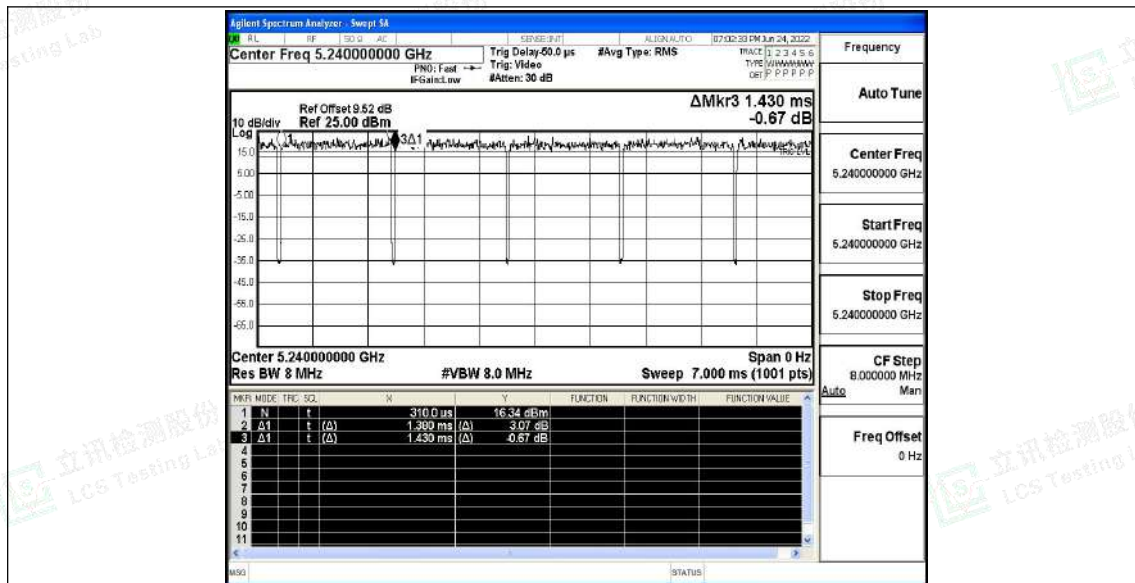


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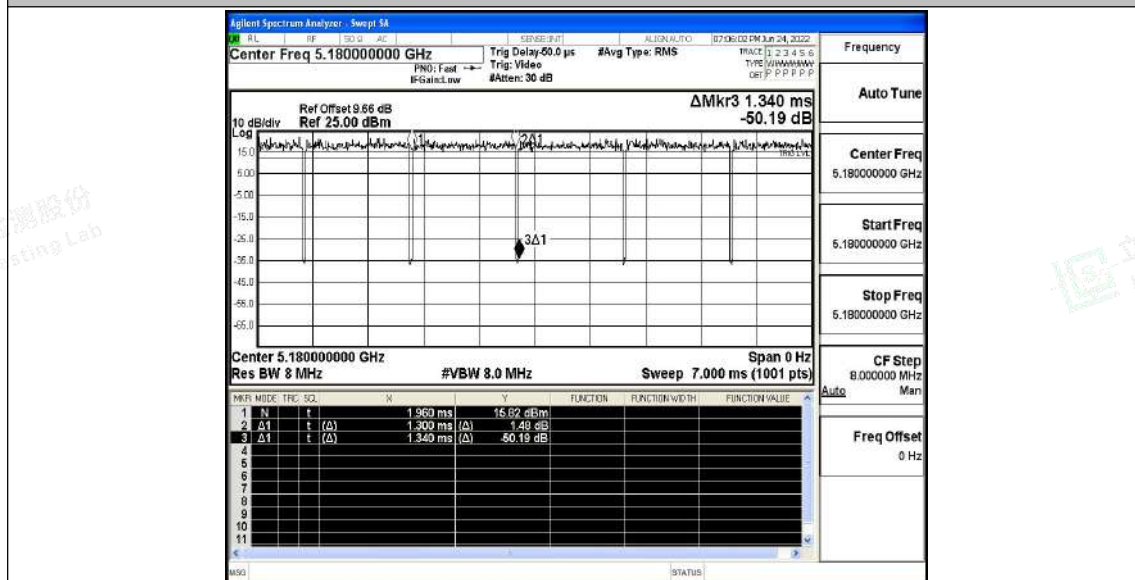
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11N20SISO_Ant1_5180



11N20SISO_Ant1_5220

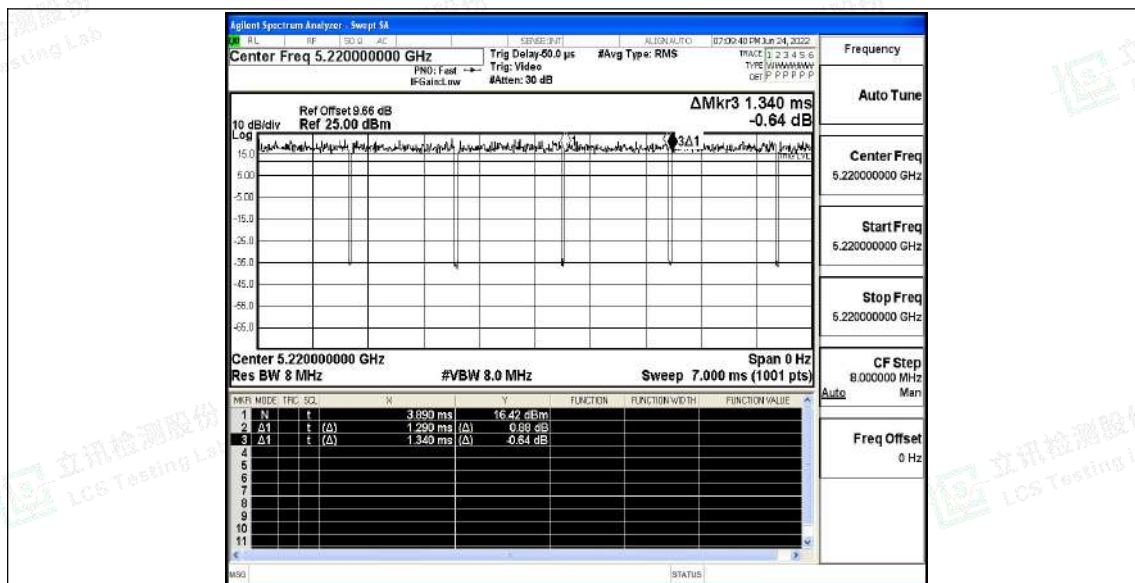


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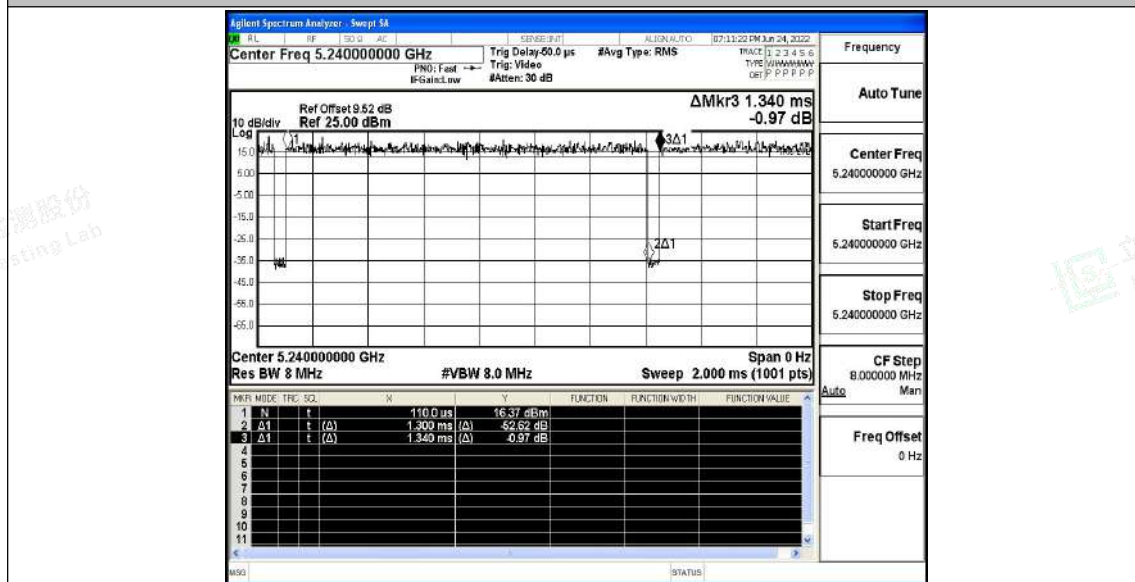
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11N20SISO_Ant1_5240



11N40SISO_Ant1_5190

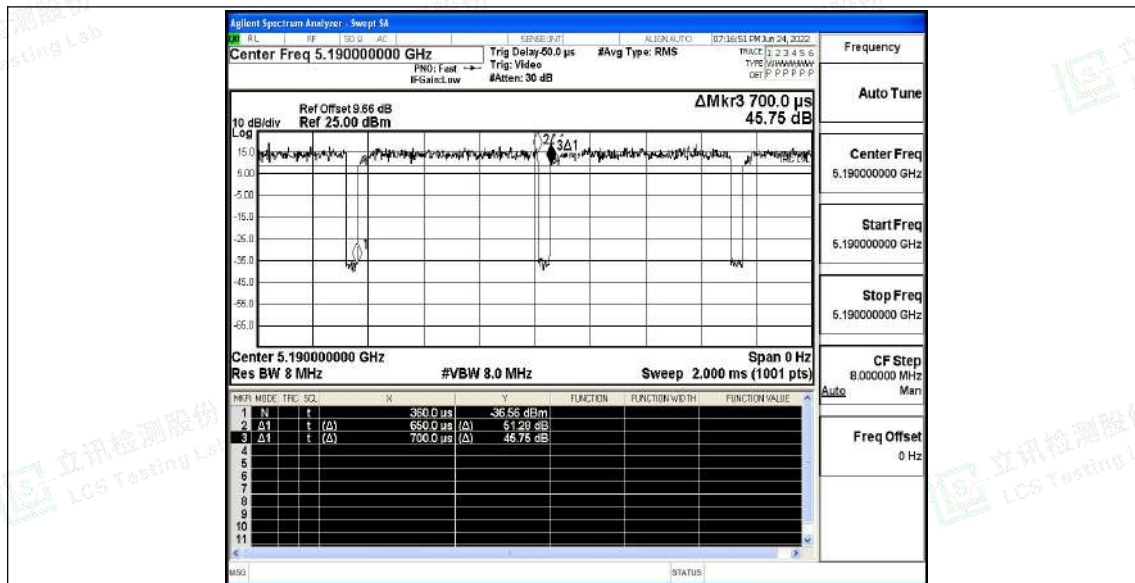


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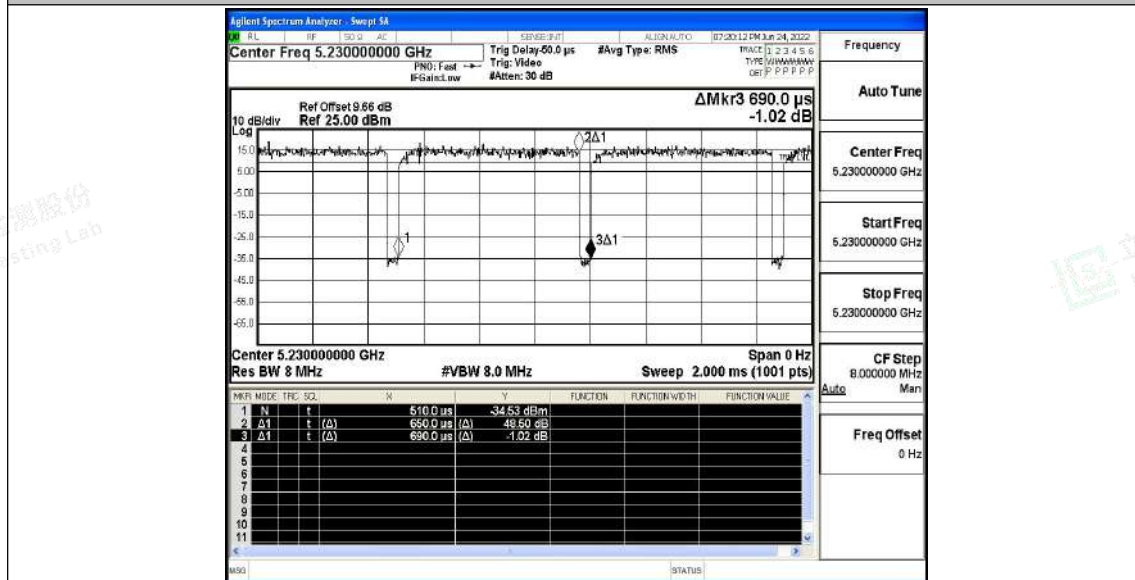
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11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

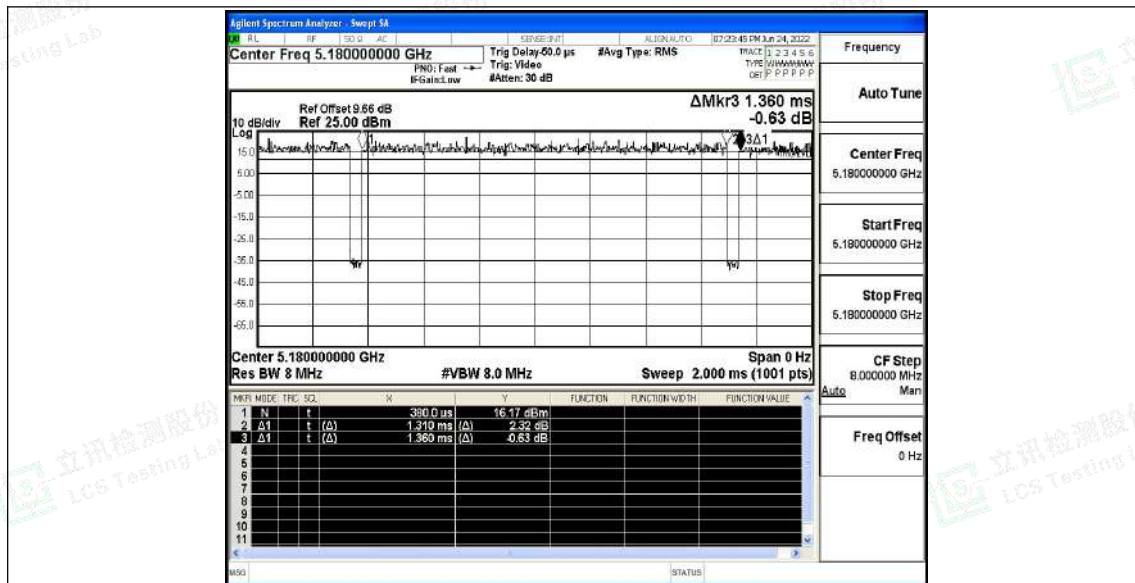


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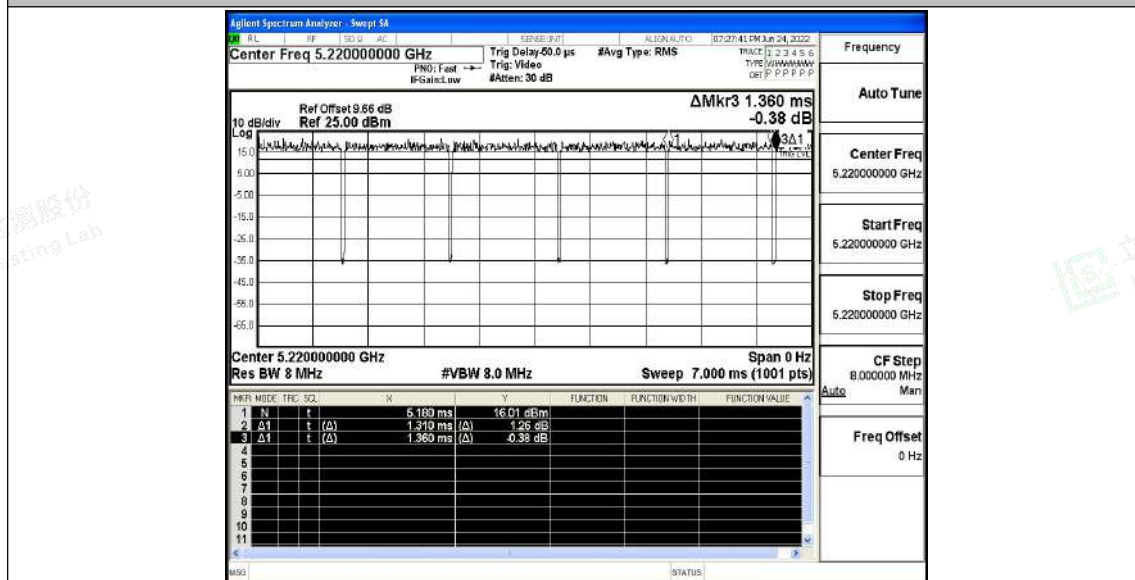
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11AC20SISO_Ant1_5220



11AC20SISO_Ant1_5240

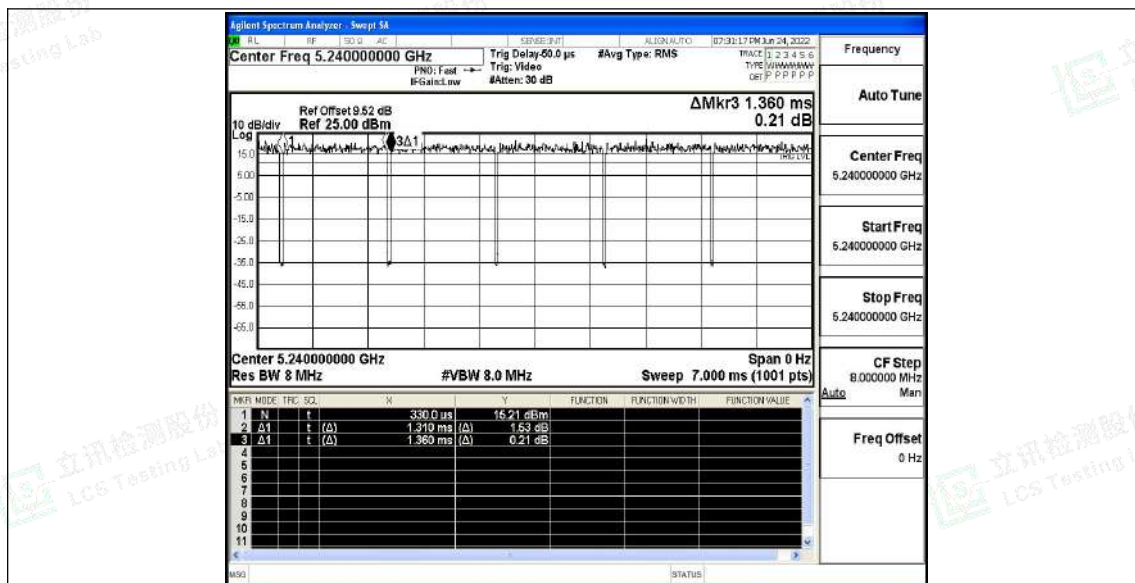


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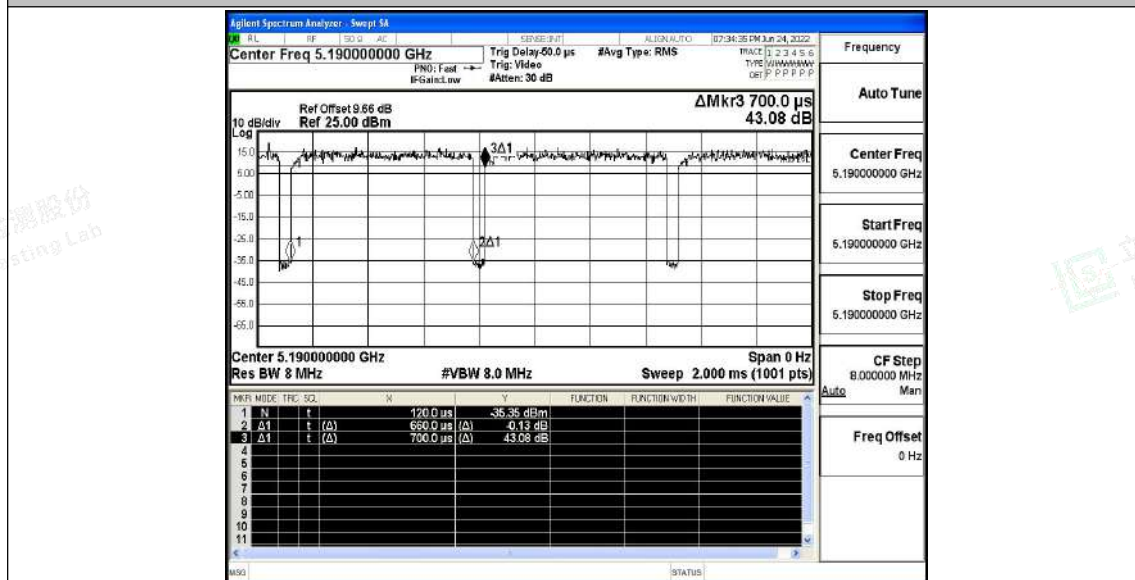
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11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

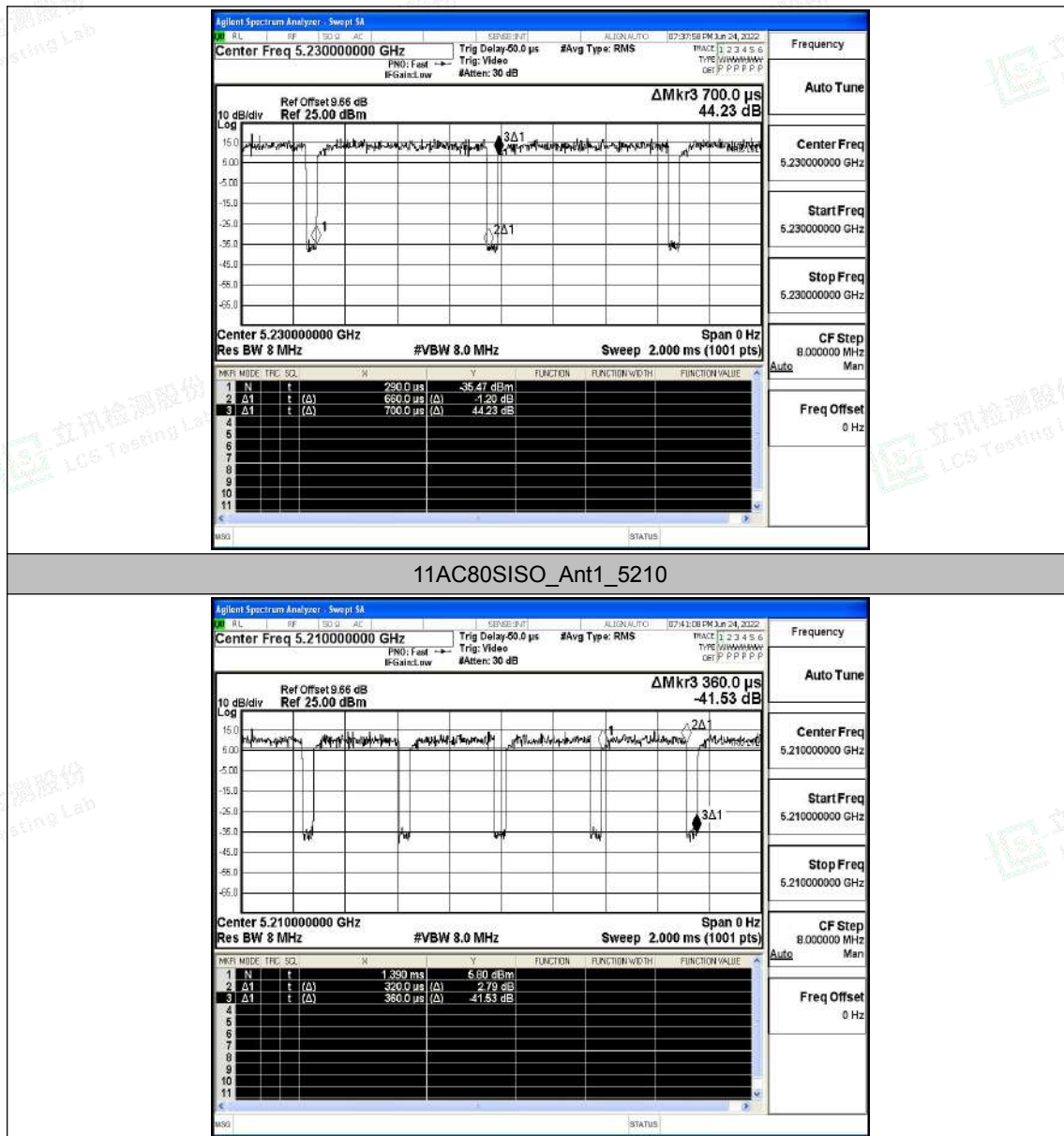


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