



Appendix D

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: AMD R1305G Player

Test Model: SMPA-R1305G

Environmental Conditions

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

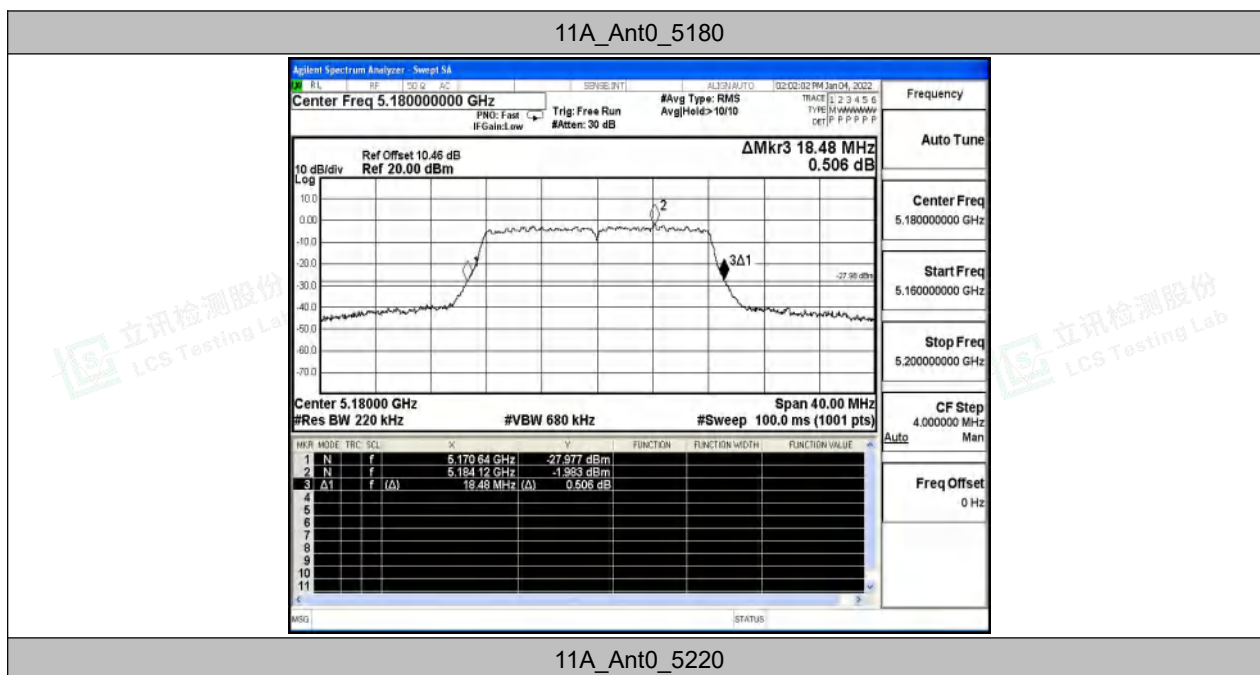


D.1 26dB Bandwidth

Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant0	5180	18.480	5170.640	5189.120	---	---
		5220	18.440	5210.680	5229.120	---	---
		5240	18.520	5230.600	5249.120	---	---
11N20SISO	Ant0	5180	19.400	5170.320	5189.720	---	---
		5220	19.440	5210.280	5229.720	---	---
		5240	19.480	5230.240	5249.720	---	---
11N40SISO	Ant0	5190	41.040	5169.600	5210.640	---	---
		5230	41.200	5209.440	5250.640	---	---
11AC20SISO	Ant0	5180	19.440	5170.280	5189.720	---	---
		5220	19.520	5210.240	5229.760	---	---
		5240	19.480	5230.240	5249.720	---	---
11AC40SISO	Ant0	5190	41.040	5169.600	5210.640	---	---
		5230	40.960	5209.600	5250.560	---	---
11AC80SISO	Ant0	5210	80.960	5169.520	5250.480	---	---

Test Graphs

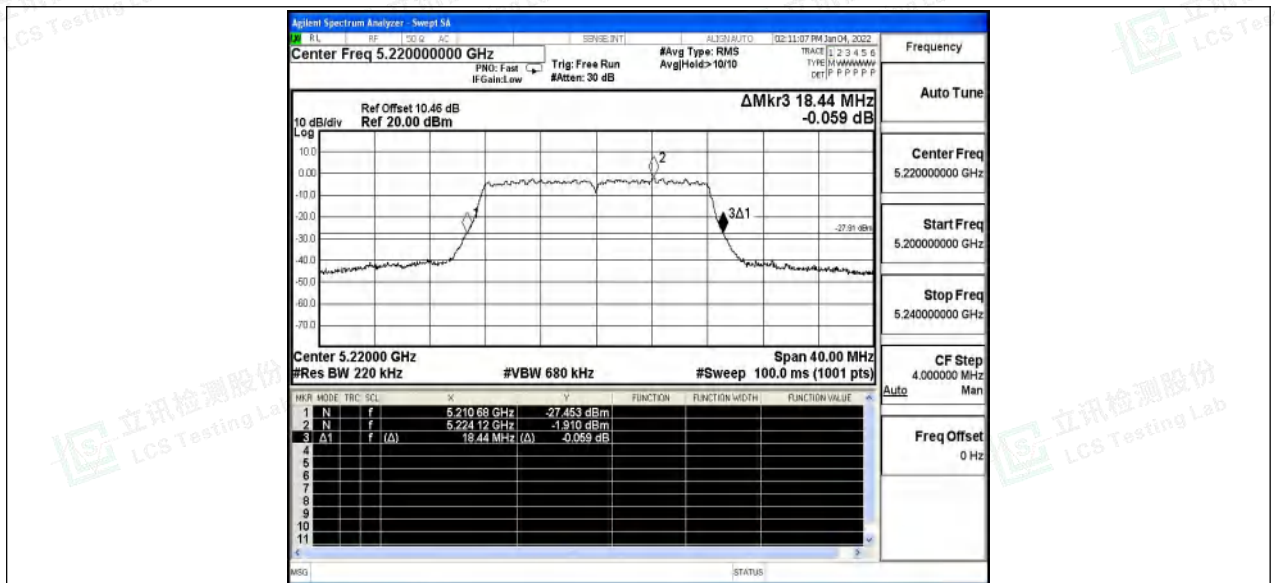


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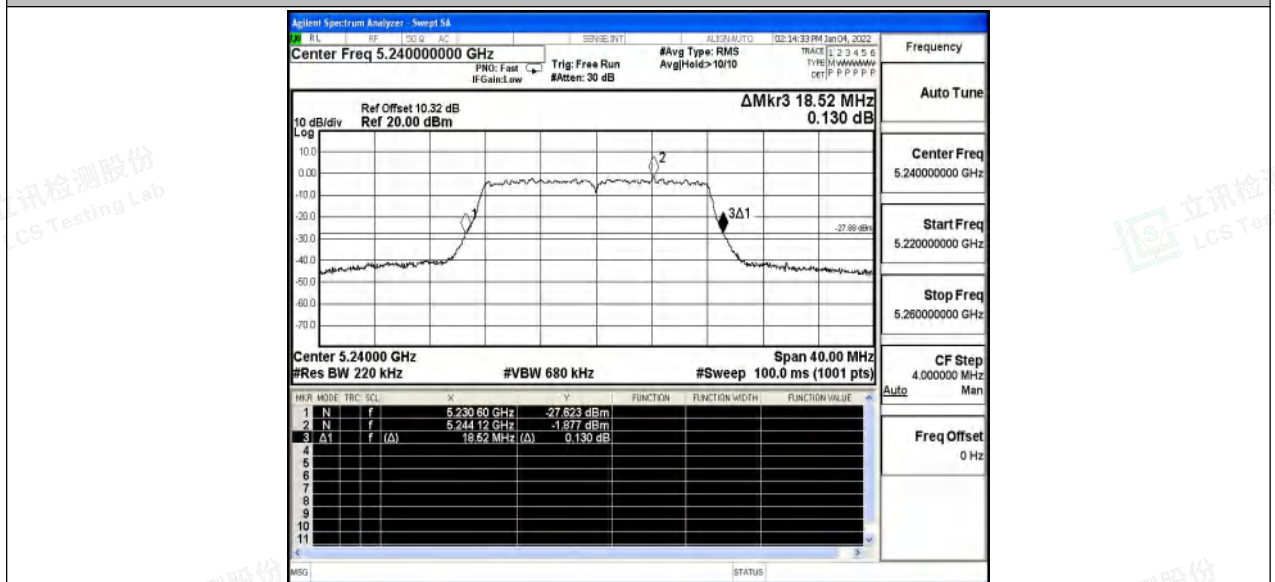
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11A_Ant0_5240



11N20SISO_Ant0_5180

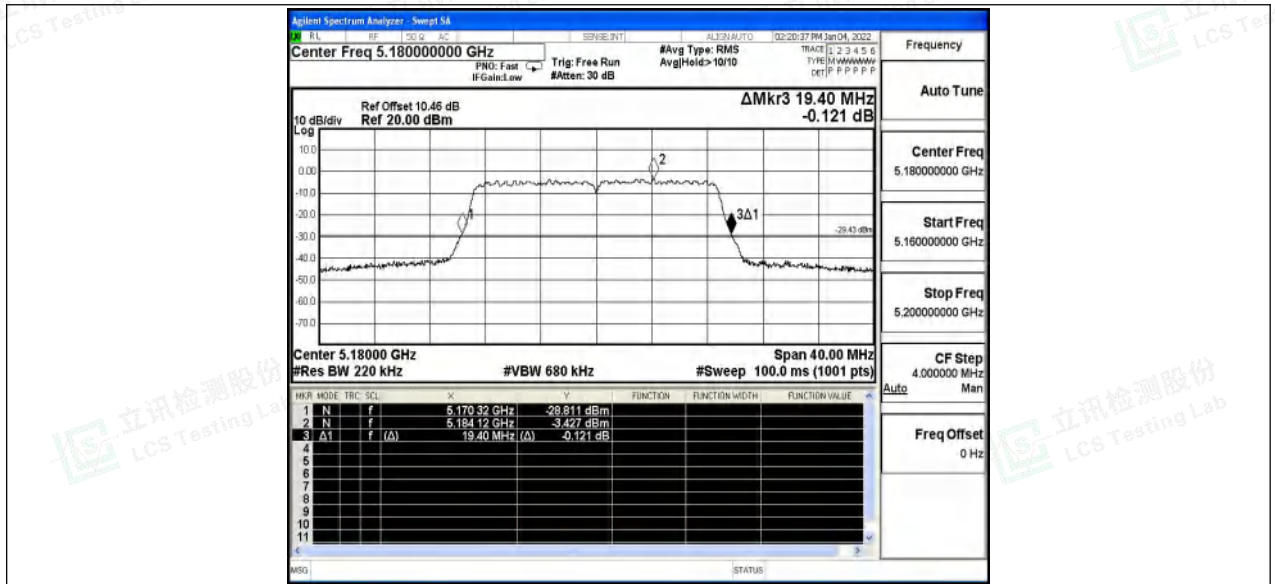


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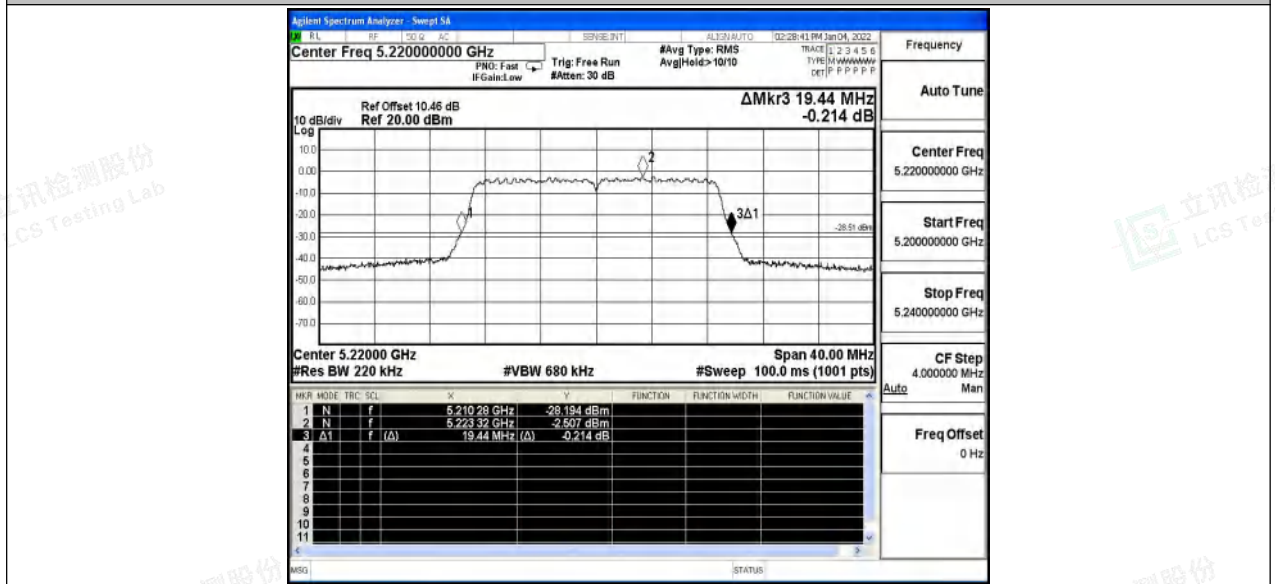
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11N20SISO_Ant0_5220



11N20SISO_Ant0_5240

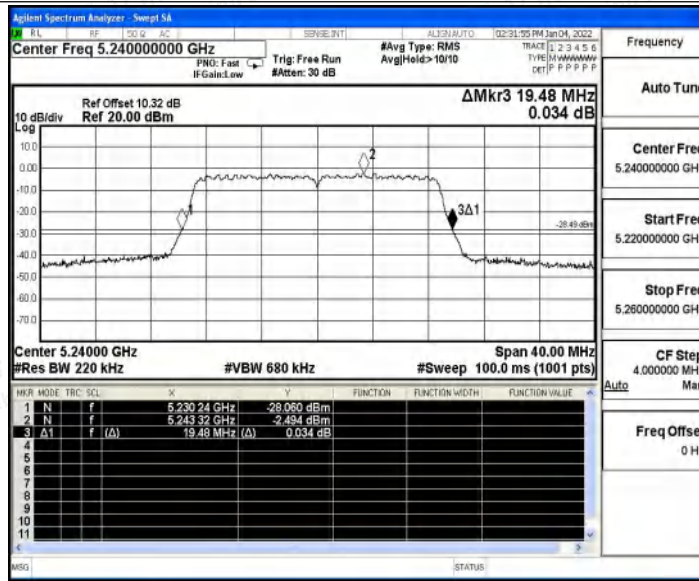


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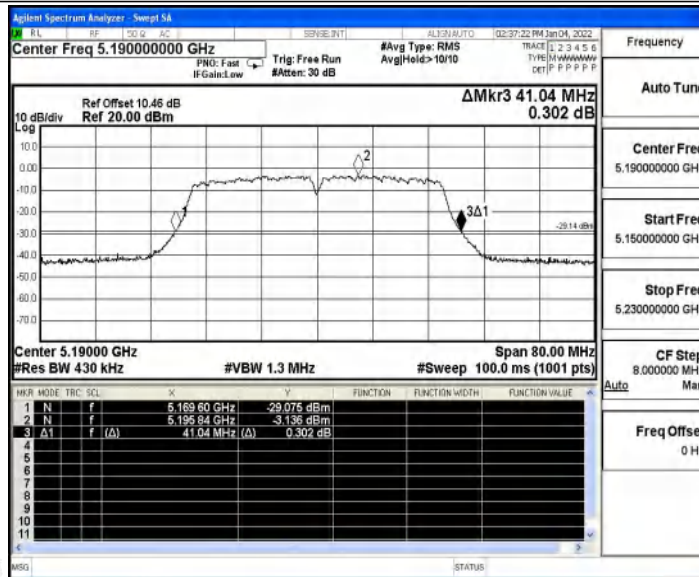
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11N40SISO_Ant0_5190



11N40SISO_Ant0_5230

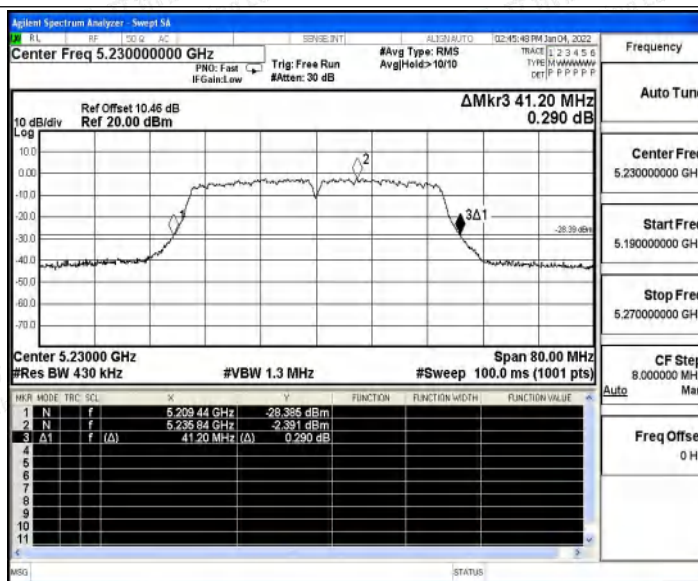


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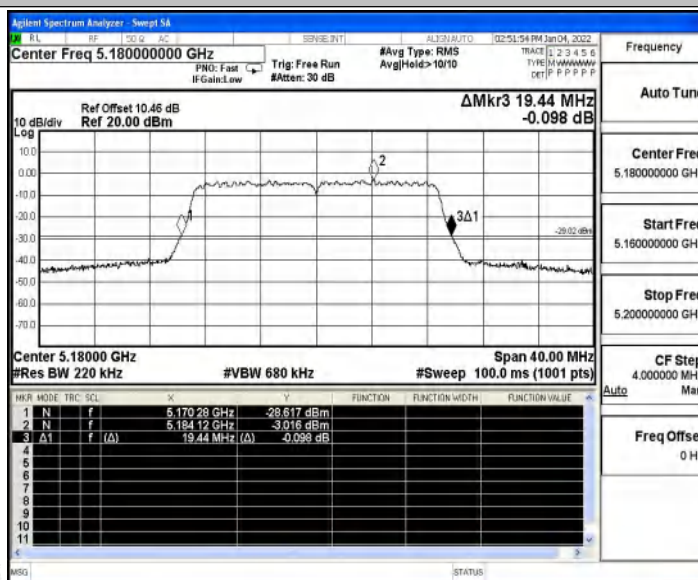
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11AC20SISO Ant0 5180



11AC20SISO Ant0 5220

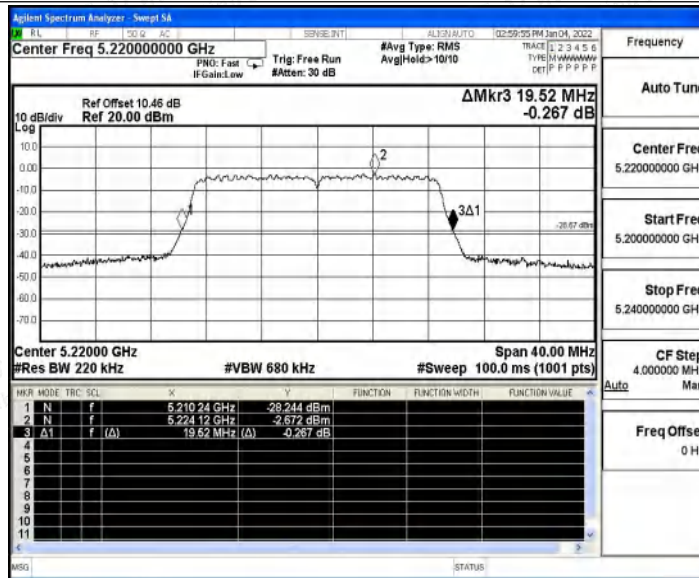


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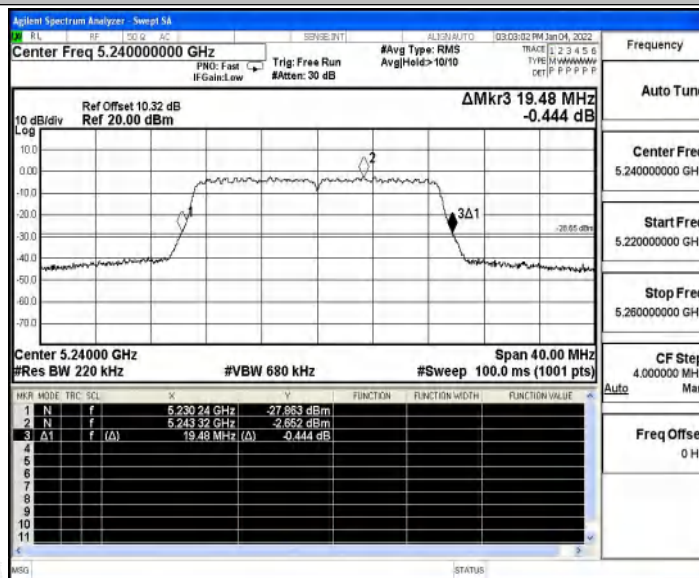
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11AC20SISO_Ant0_5240



11AC40SISO_Ant0_5190

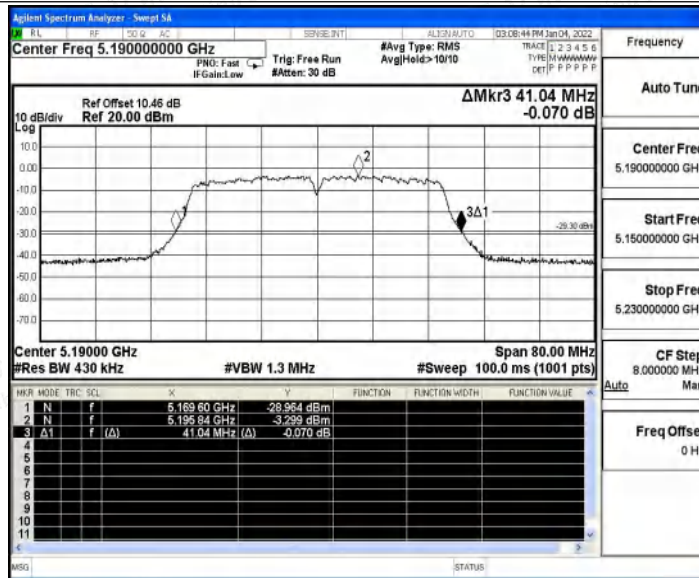


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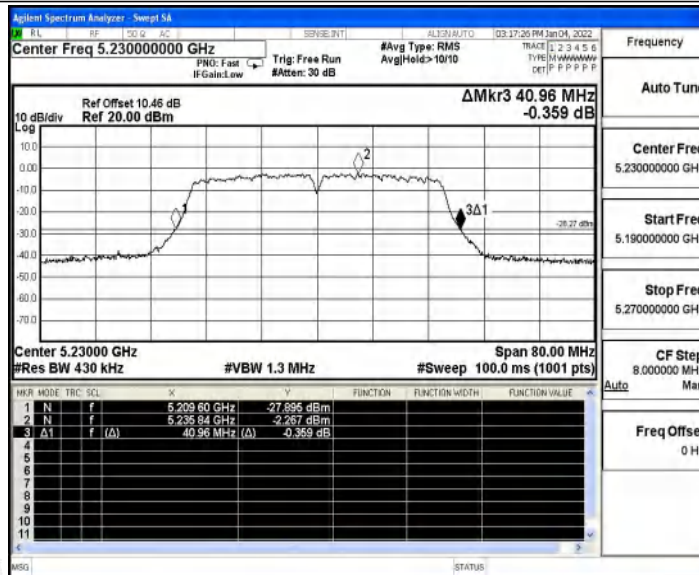
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11AC40SISO_Ant0_5230



11AC80SISO_Ant0_5210

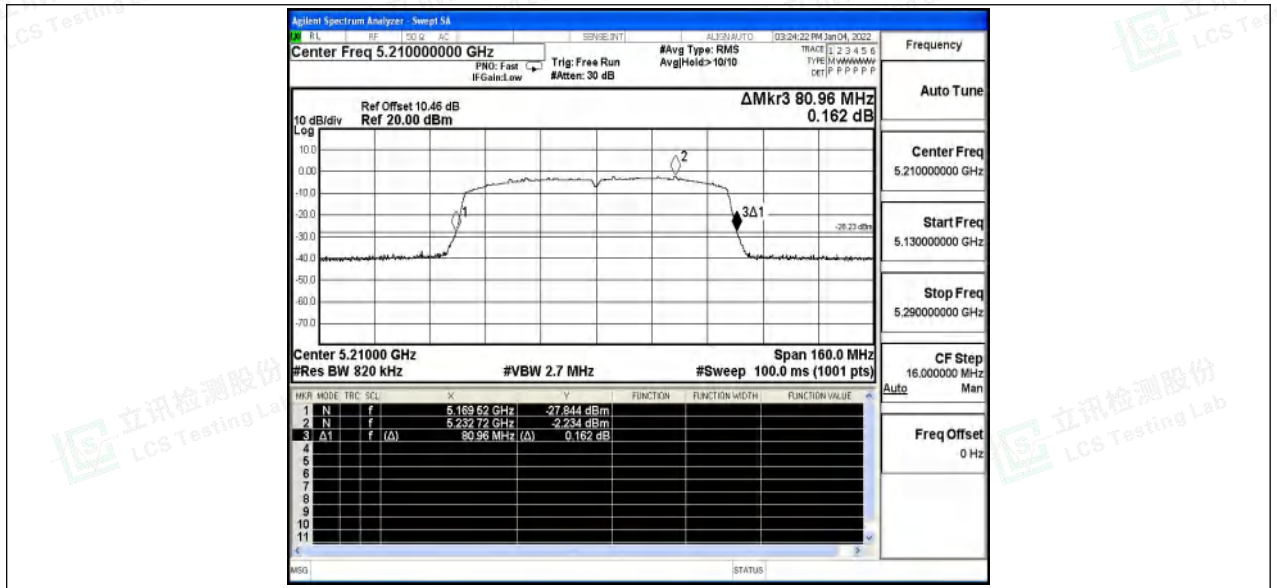


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TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	18.400	5170.720	5189.120	---	---
		5220	18.400	5210.680	5229.080	---	---
		5240	18.440	5230.640	5249.080	---	---
11N20SISO	Ant1	5180	19.400	5170.280	5189.680	---	---
		5220	19.400	5210.280	5229.680	---	---
		5240	19.480	5230.240	5249.720	---	---
11N40SISO	Ant1	5190	40.960	5169.680	5210.640	---	---
		5230	40.960	5209.520	5250.480	---	---
11AC20SISO	Ant1	5180	19.440	5170.280	5189.720	---	---
		5220	19.440	5210.240	5229.680	---	---
		5240	19.440	5230.240	5249.680	---	---
11AC40SISO	Ant1	5190	40.960	5169.520	5210.480	---	---
		5230	41.040	5209.440	5250.480	---	---
11AC80SISO	Ant1	5210	80.800	5169.520	5250.320	---	---



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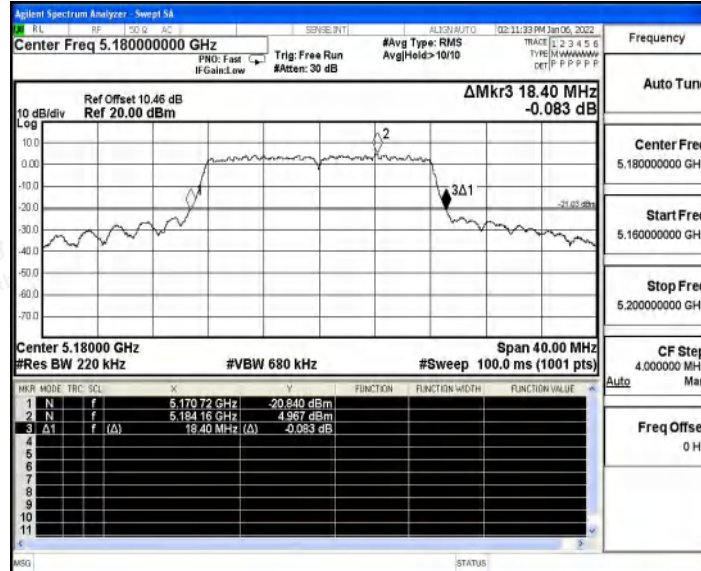
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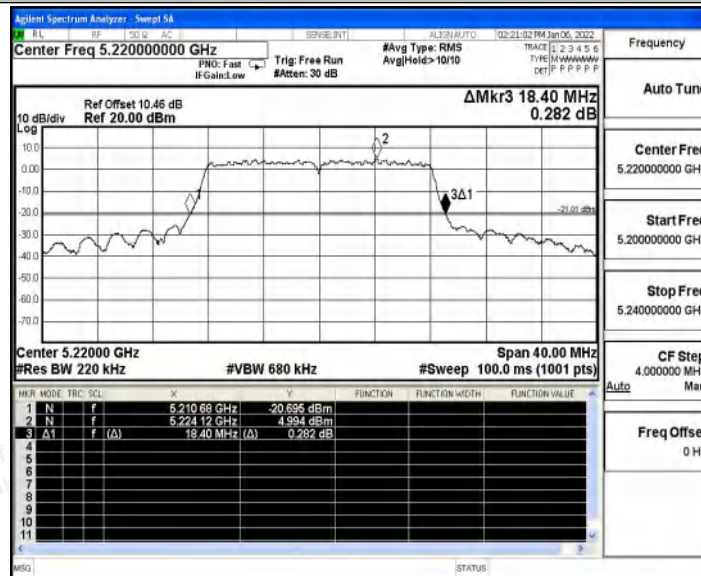


Test Graphs

11A_Ant1_5180



11A_Ant1_5220



11A_Ant1_5240

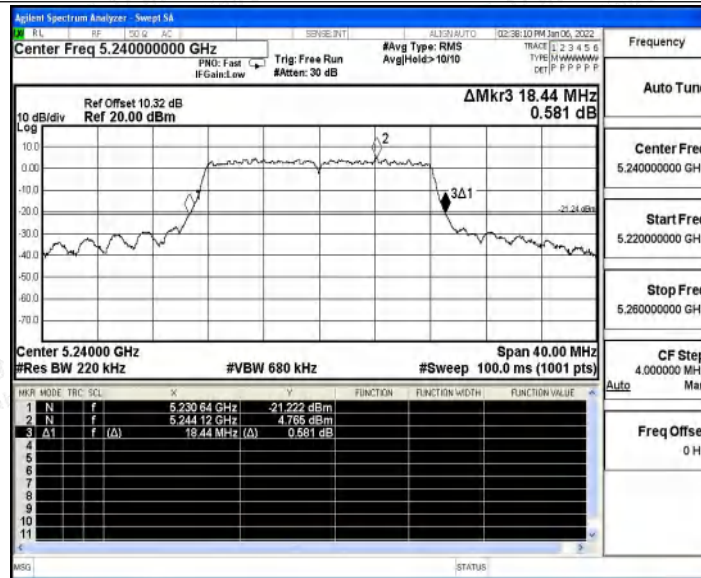


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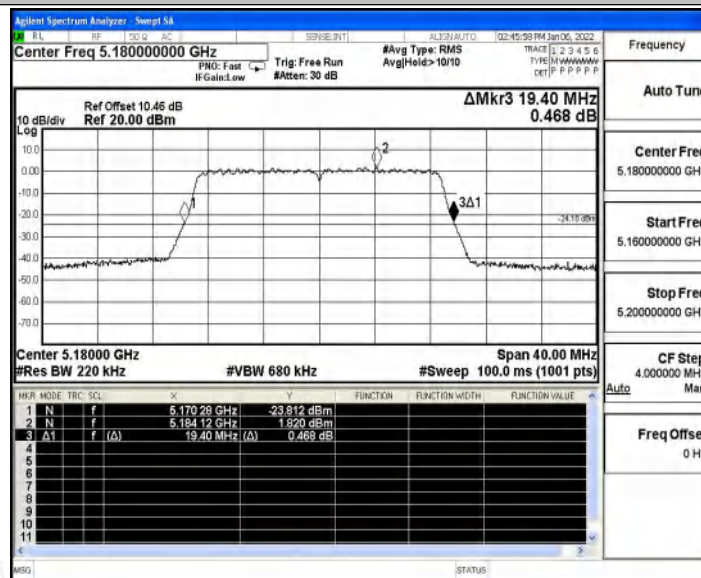
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11N20SISO_Ant1_5180



11N20SISO_Ant1_5220

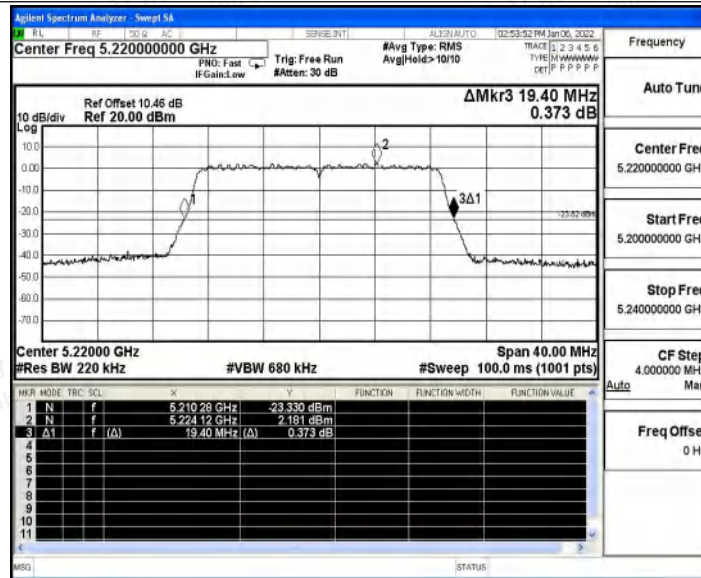


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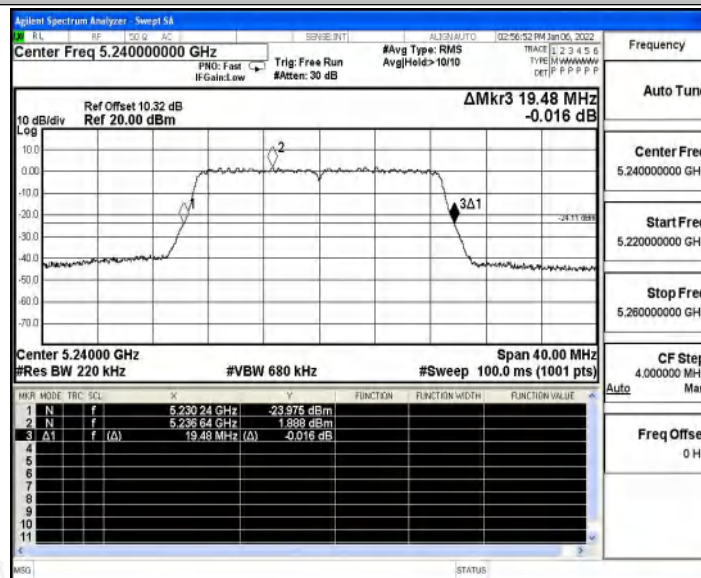
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11N20SISO_Ant1_5240



11N40SISO_Ant1_5190

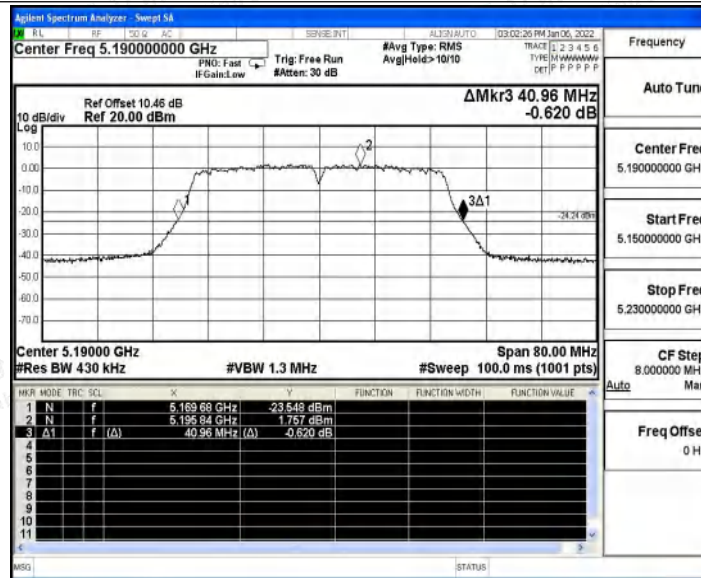


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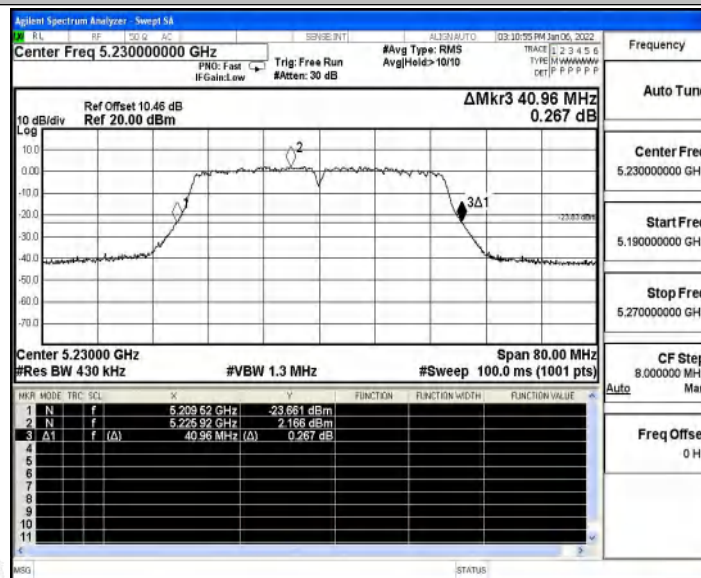
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11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

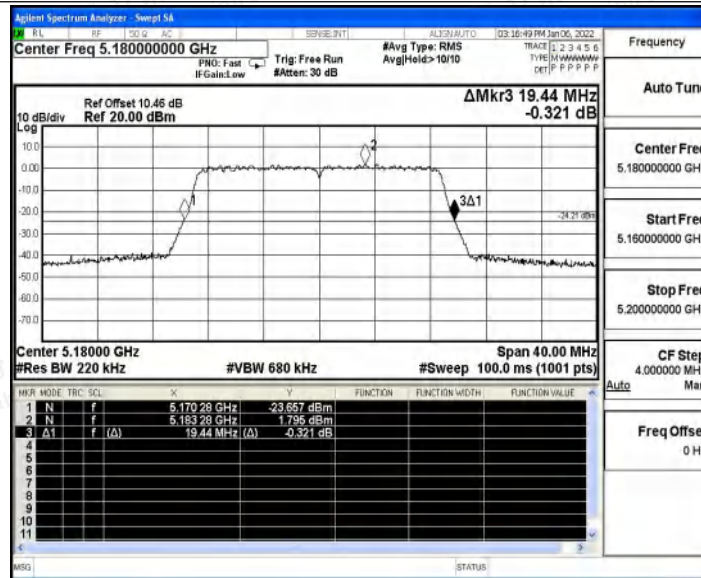


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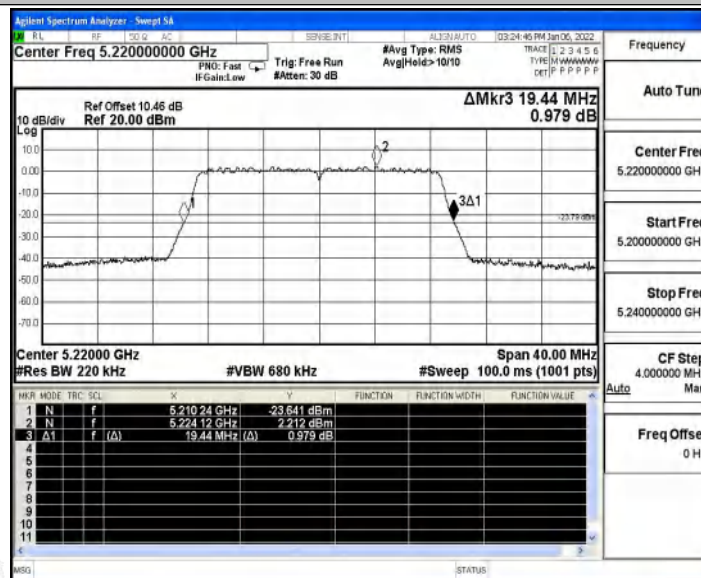
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11AC20SISO_Ant1_5220



11AC20SISO_Ant1_5240

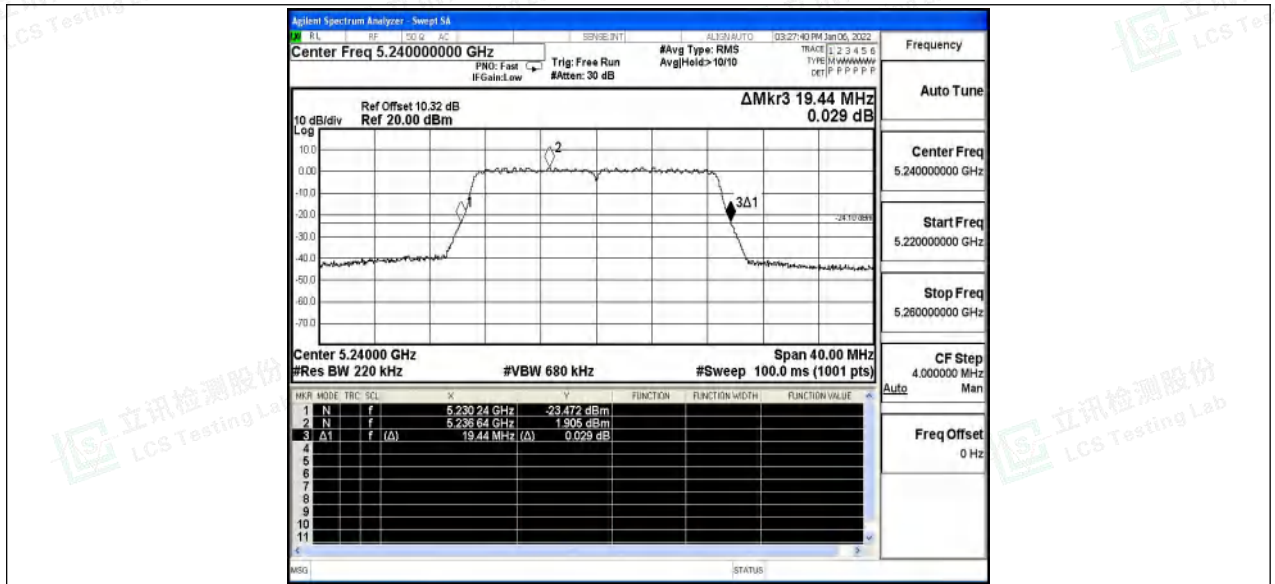


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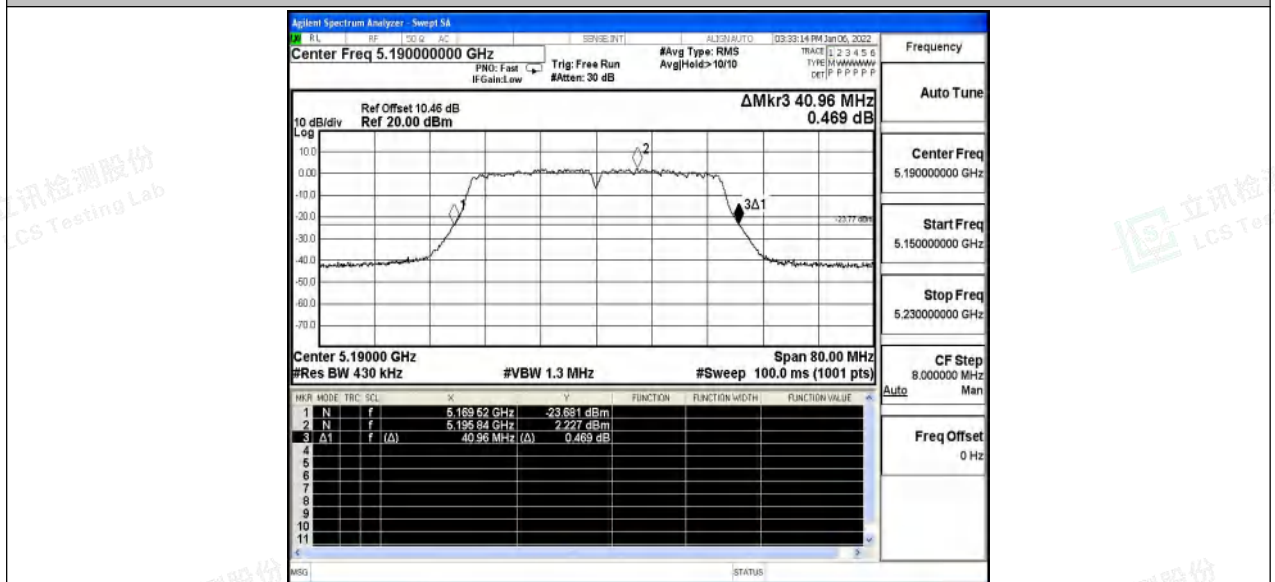
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11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

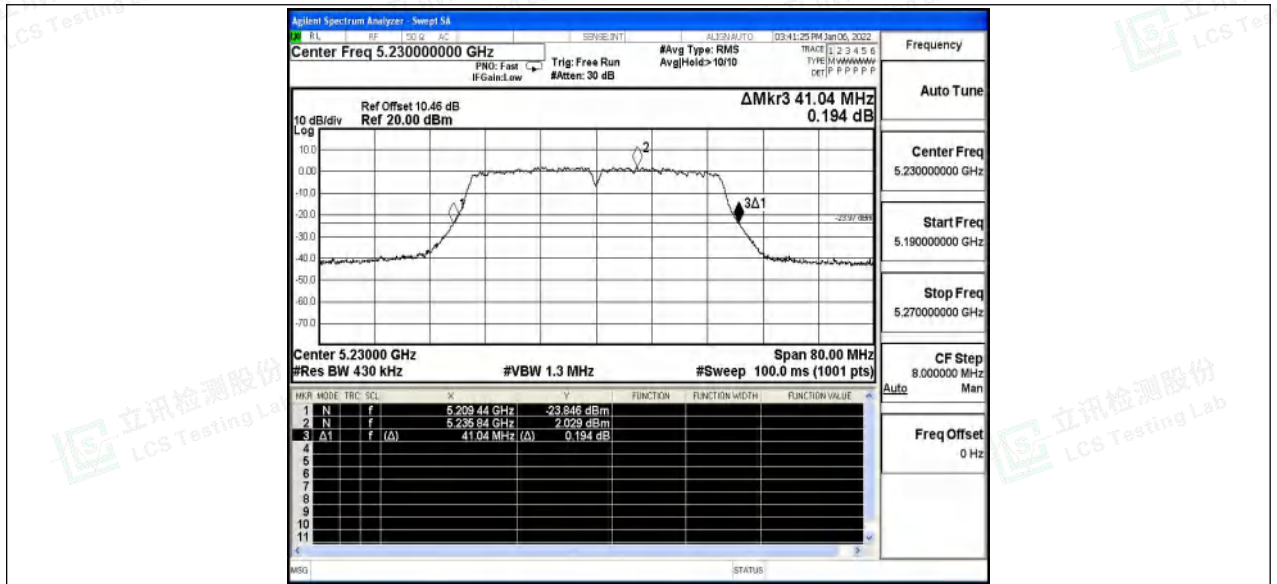


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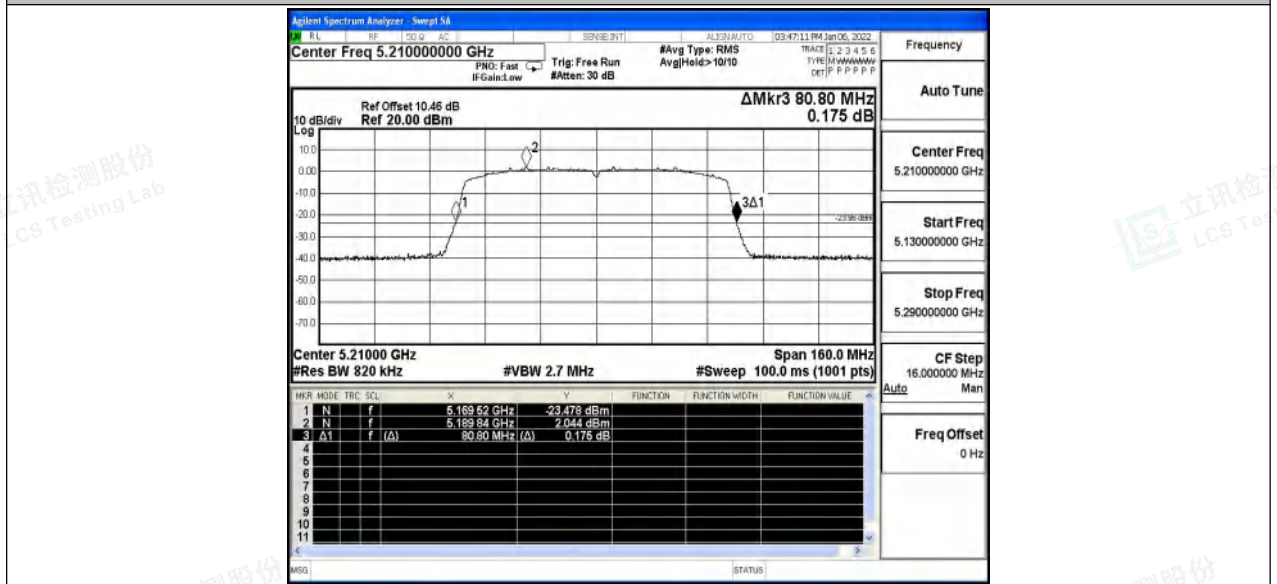
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11AC80SISO_Ant1_5210



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D.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant0	5180	15.30	≤23.98	PASS
		5220	15.25	≤23.98	PASS
		5240	14.86	≤23.98	PASS
11N20SISO	Ant0	5180	12.58	≤23.98	PASS
		5220	12.62	≤23.98	PASS
		5240	12.32	≤23.98	PASS
11N40SISO	Ant0	5190	12.18	≤23.98	PASS
		5230	12.15	≤23.98	PASS
11AC20SISO	Ant0	5180	12.60	≤23.98	PASS
		5220	12.36	≤23.98	PASS
		5240	12.06	≤23.98	PASS
11AC40SISO	Ant0	5190	12.35	≤23.98	PASS
		5230	11.93	≤23.98	PASS
11AC80SISO	Ant0	5210	11.65	≤23.98	PASS

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	14.81	≤23.98	PASS
		5220	15.04	≤23.98	PASS
		5240	14.71	≤23.98	PASS
11N20SISO	Ant1	5180	12.38	≤23.98	PASS
		5220	12.77	≤23.98	PASS
		5240	12.48	≤23.98	PASS
11N40SISO	Ant1	5190	12.08	≤23.98	PASS
		5230	12.47	≤23.98	PASS
11AC20SISO	Ant1	5180	12.44	≤23.98	PASS
		5220	12.92	≤23.98	PASS
		5240	12.64	≤23.98	PASS
11AC40SISO	Ant1	5190	12.21	≤23.98	PASS
		5230	12.20	≤23.98	PASS
11AC80SISO	Ant1	5210	11.86	≤23.98	PASS



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MIMO

Test Mode	Channel	Frequency (MHz)	Ant 0 Conducted Power (dBm)	Ant 1 Conducted Power (dBm)	MIMO AV Conducted Power (dBm)	Limit (dBm)	Verdict
11N20	36	5180	12.58	12.38	15.49	≤23.98	Pass
	40	5200	12.62	12.77	15.71		Pass
	48	5240	12.32	12.48	15.41		Pass
11N40	38	5190	12.18	12.08	15.14	≤23.98	Pass
	46	5230	12.15	12.47	15.32		Pass
11AC20	36	5180	12.60	12.44	15.53	≤23.98	Pass
	40	5200	12.36	12.92	15.66		Pass
	48	5240	12.06	12.64	15.37		Pass
11AC40	38	5190	12.35	12.21	15.29	≤23.98	Pass
	46	5230	11.93	12.20	15.08		Pass
11AC80	42	5210	11.65	11.86	14.77	≤23.98	Pass

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



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D.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant0	5180	3.67	≤11.00	PASS
		5220	3.61	≤11.00	PASS
		5240	3.24	≤11.00	PASS
11N20SISO	Ant0	5180	0.7	≤11.00	PASS
		5220	0.71	≤11.00	PASS
		5240	0.39	≤11.00	PASS
11N40SISO	Ant0	5190	-2.31	≤11.00	PASS
		5230	-2.35	≤11.00	PASS
11AC20SISO	Ant0	5180	0.7	≤11.00	PASS
		5220	0.5	≤11.00	PASS
		5240	0.23	≤11.00	PASS
11AC40SISO	Ant0	5190	-2.26	≤11.00	PASS
		5230	-2.53	≤11.00	PASS
11AC80SISO	Ant0	5210	-5.95	≤11.00	PASS

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	3.38	≤11.00	PASS
		5220	3.62	≤11.00	PASS
		5240	3.23	≤11.00	PASS
11N20SISO	Ant1	5180	0.71	≤11.00	PASS
		5220	1.03	≤11.00	PASS
		5240	0.69	≤11.00	PASS
11N40SISO	Ant1	5190	-2.32	≤11.00	PASS
		5230	-1.92	≤11.00	PASS
11AC20SISO	Ant1	5180	0.71	≤11.00	PASS
		5220	1.12	≤11.00	PASS
		5240	0.86	≤11.00	PASS
11AC40SISO	Ant1	5190	-2.19	≤11.00	PASS
		5230	-2.21	≤11.00	PASS
11AC80SISO	Ant1	5210	-5.66	≤11.00	PASS



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MIMO

Test Mode	Channel	Frequency (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	MIMO PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11N20	36	5180	0.7	0.71	3.72	≤11	Pass
	40	5200	0.71	1.03	3.88		Pass
	48	5240	0.39	0.69	3.55		Pass
11N40	38	5190	-2.31	-2.32	0.70	≤11	Pass
	46	5230	-2.35	-1.92	0.88		Pass
11AC20	36	5180	0.7	0.71	3.72	≤11	Pass
	40	5200	0.5	1.12	3.83		Pass
	48	5240	0.23	0.86	3.57		Pass
11AC40	38	5190	-2.26	-2.19	0.79	≤11	Pass
	46	5230	-2.53	-2.21	0.64		Pass
11AC80	42	5210	-5.95	-5.66	-2.79	≤11	Pass

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



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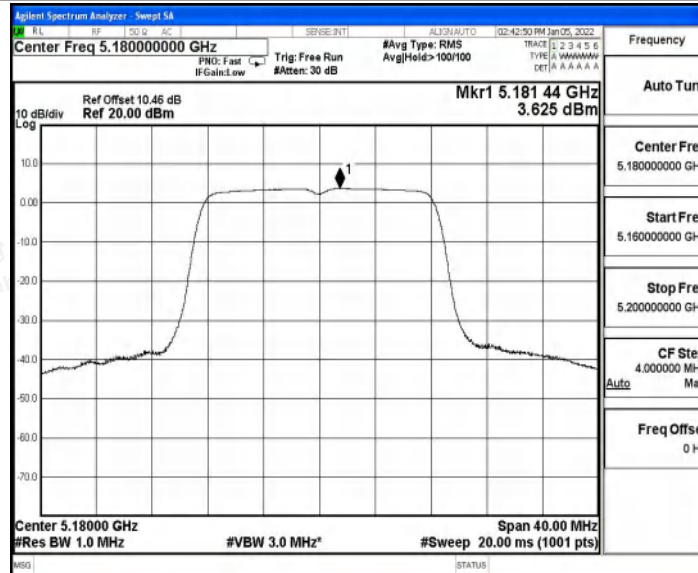
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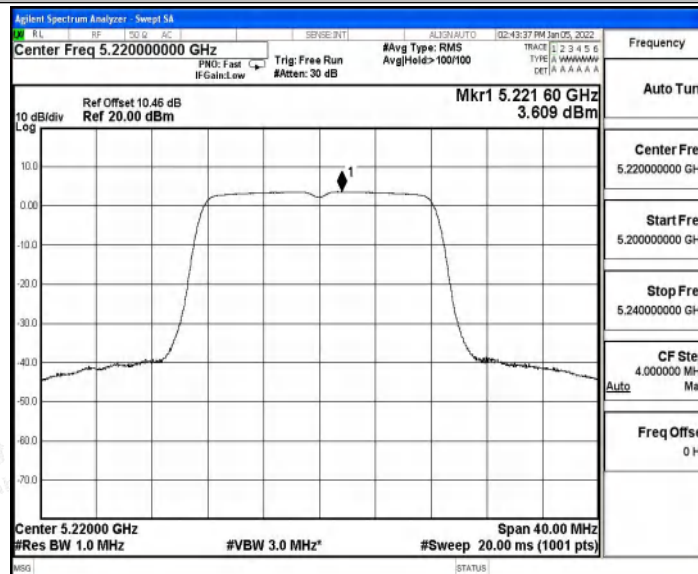


Test Graphs

11A_Ant0_5180



11A_Ant0_5220



11A_Ant0_5240

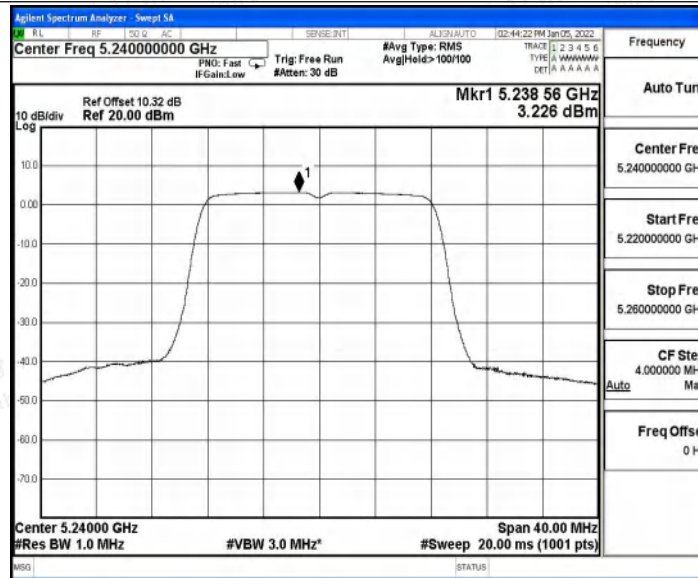


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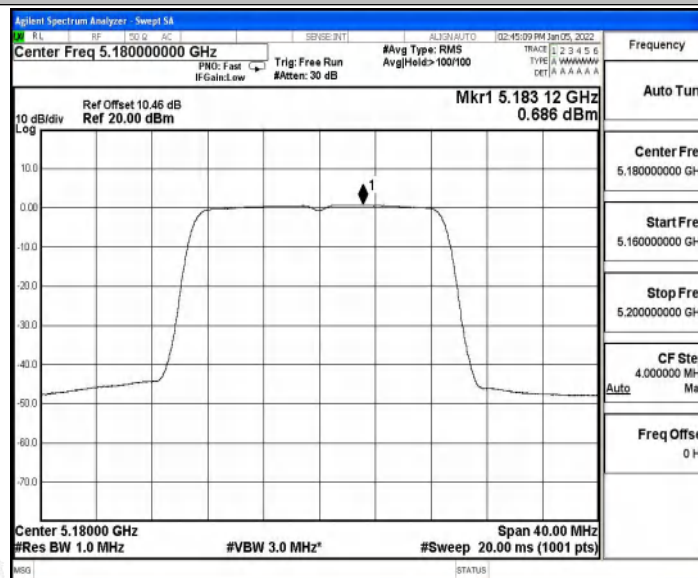
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11N20SISO_Ant0_5180



11N20SISO_Ant0_5220

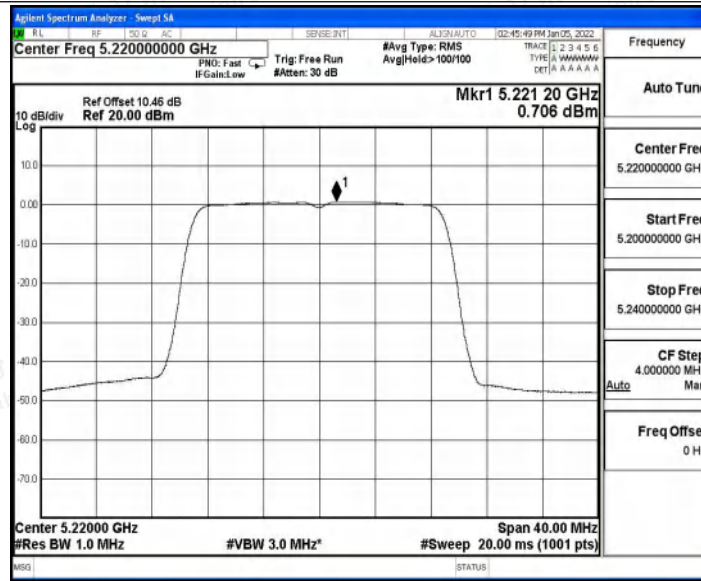


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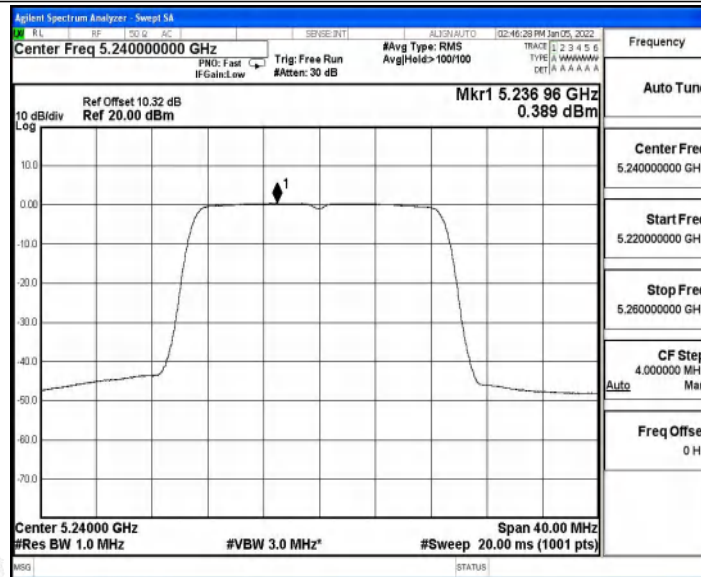
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant0_5240



11N40SISO_Ant0_5190

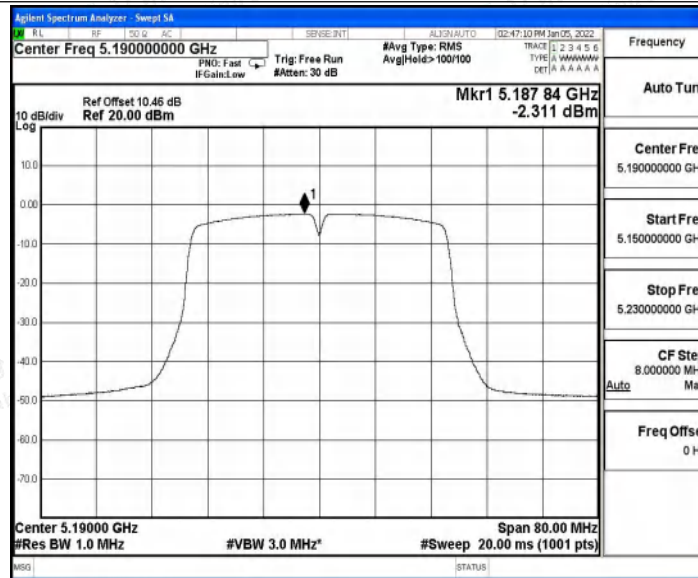


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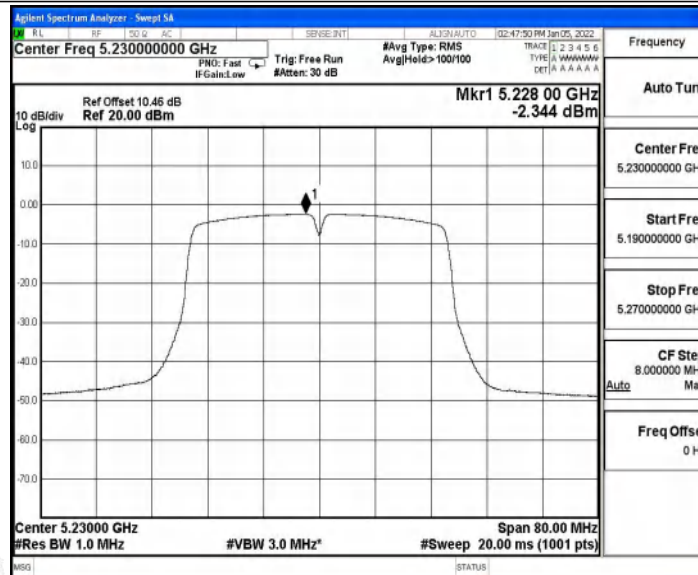
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant0_5230



11AC20SISO_Ant0_5180

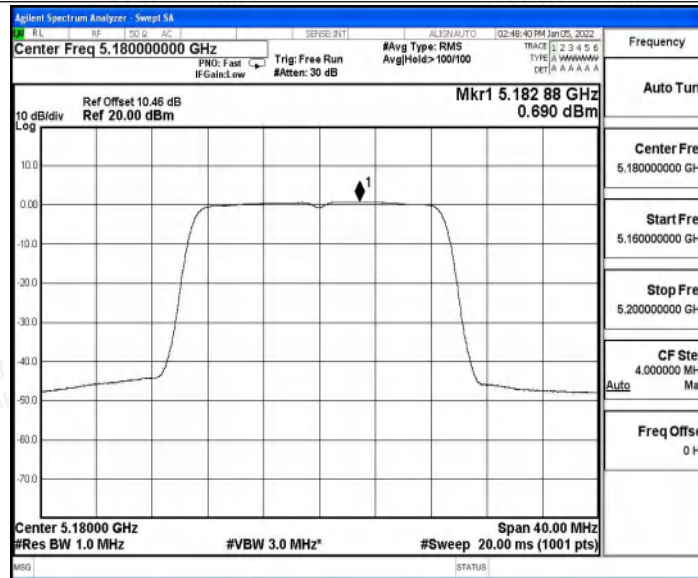


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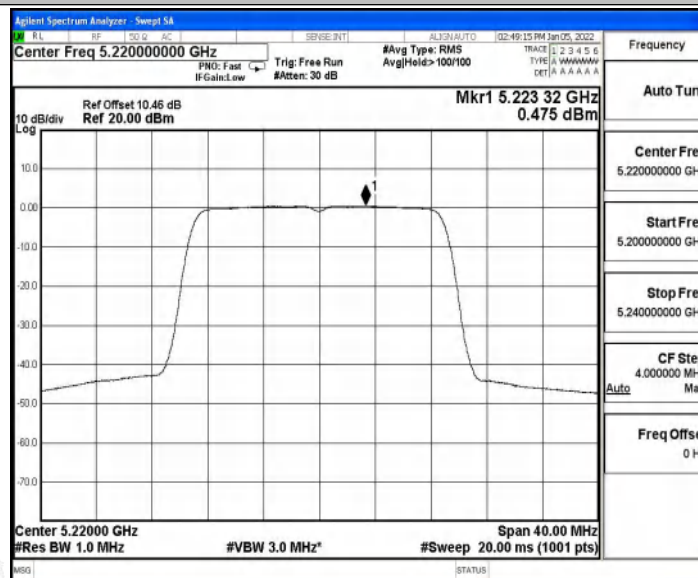
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC20SISO_Ant0_5220



11AC20SISO_Ant0_5240

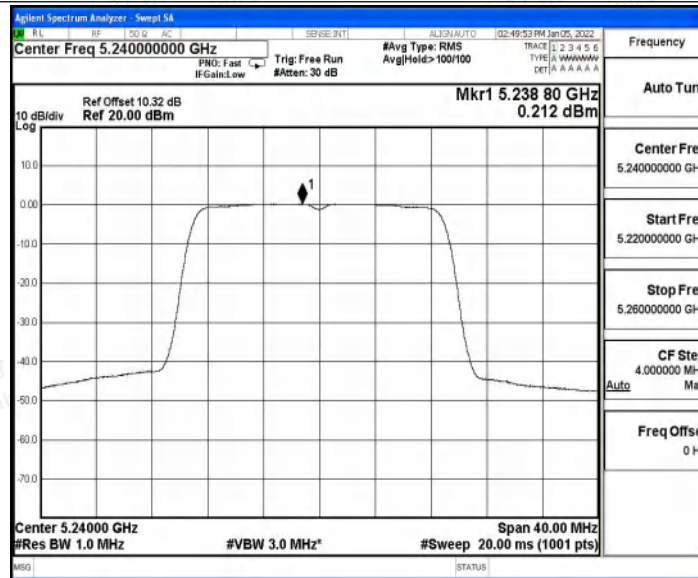


Shenzhen LCS Compliance Testing Laboratory Ltd.

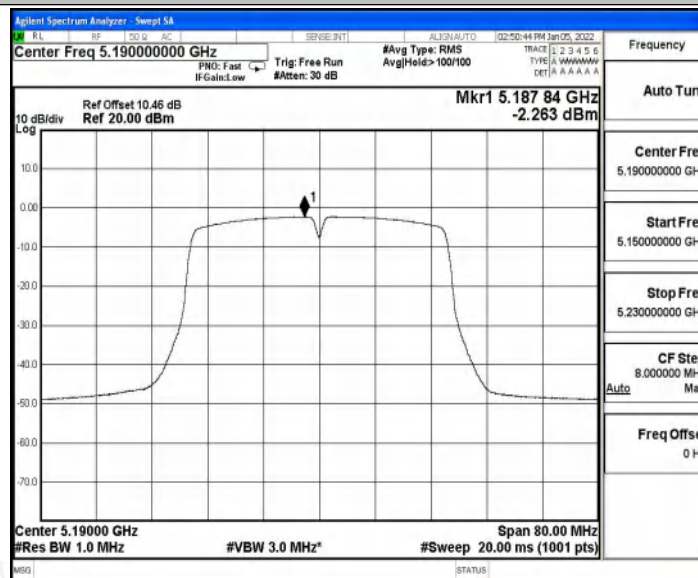
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11AC40SISO_Ant0_5190



11AC40SISO_Ant0_5230

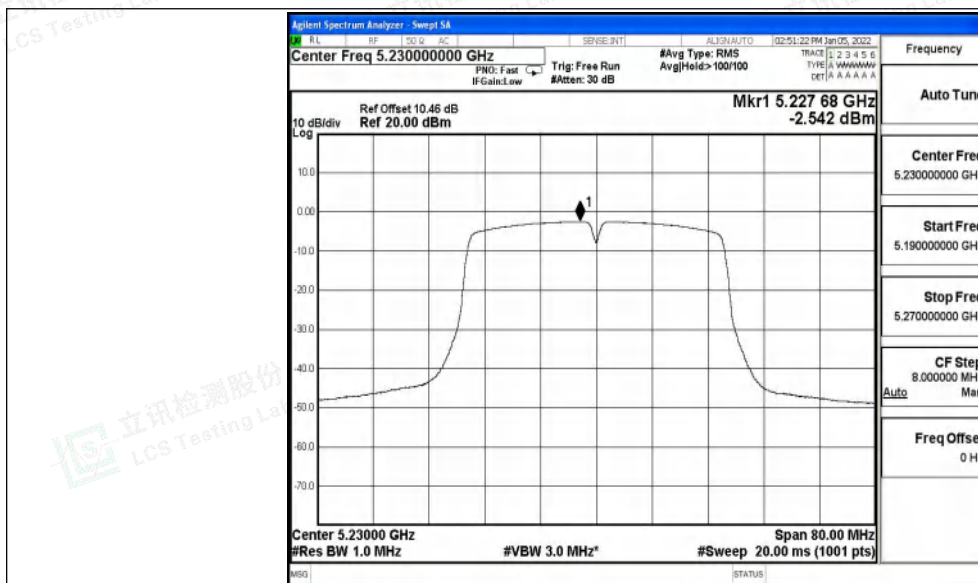


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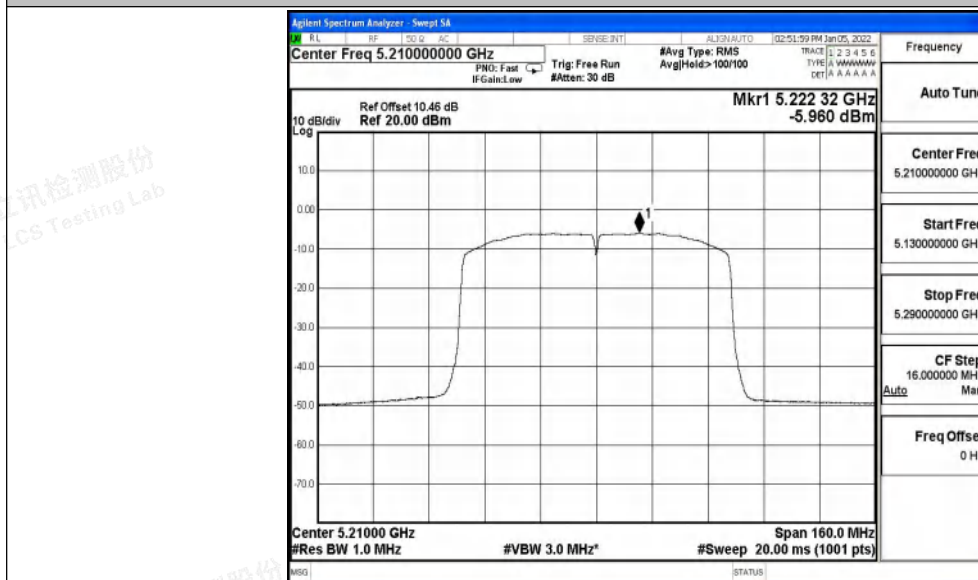
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC80SISO_Ant0_5210



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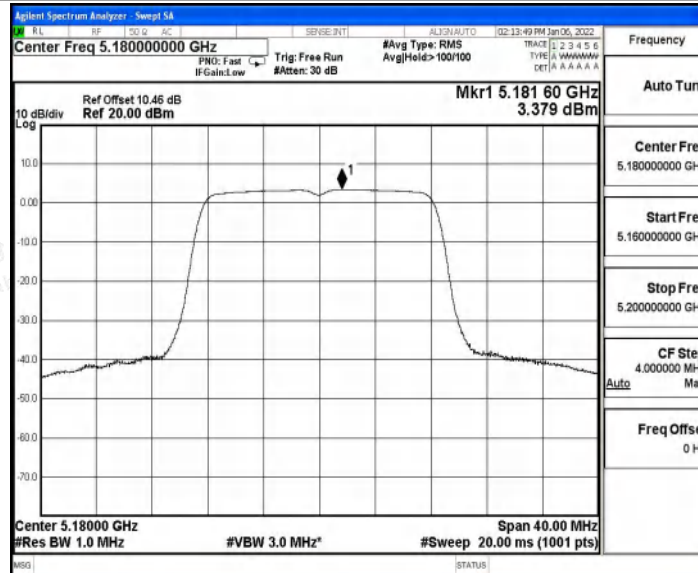
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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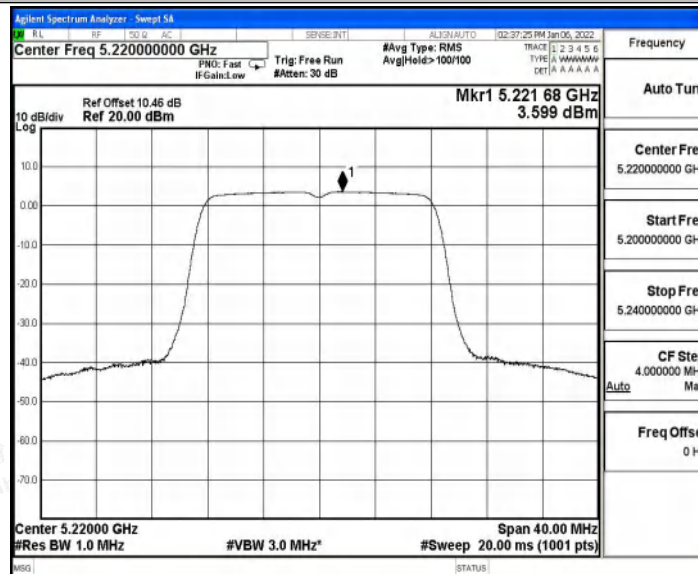


Test Graphs

11A_Ant1_5180



11A_Ant1_5220



11A_Ant1_5240

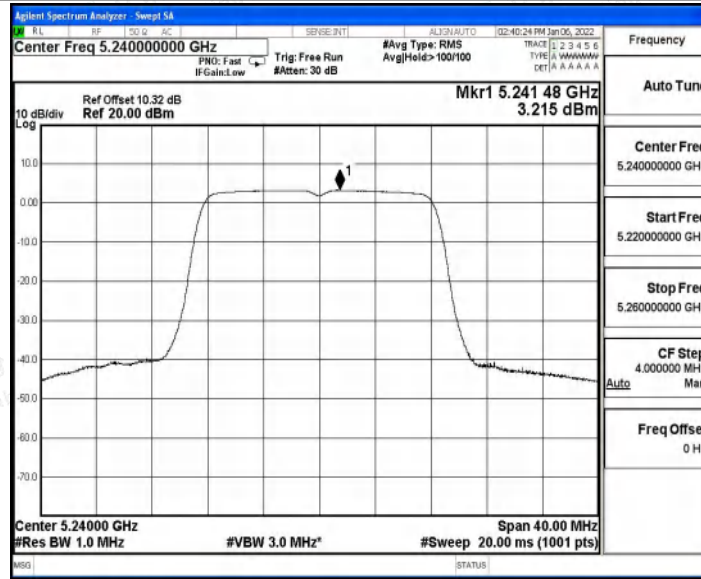


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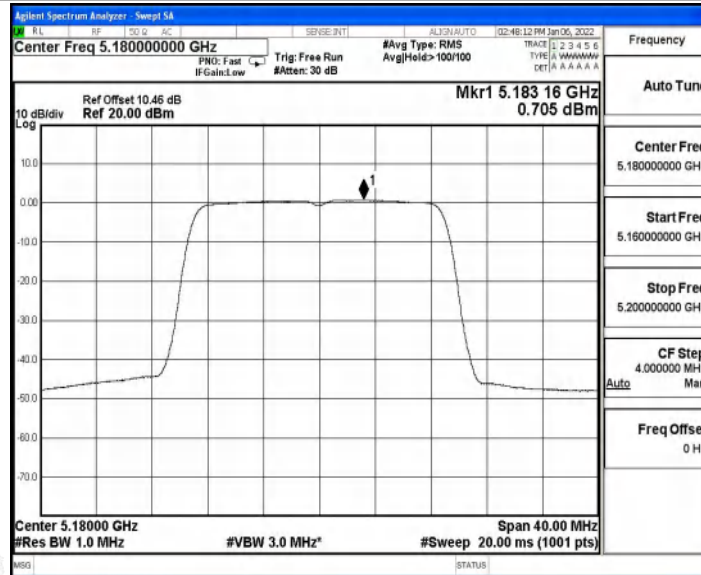
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11N20SISO_Ant1_5180



11N20SISO_Ant1_5220

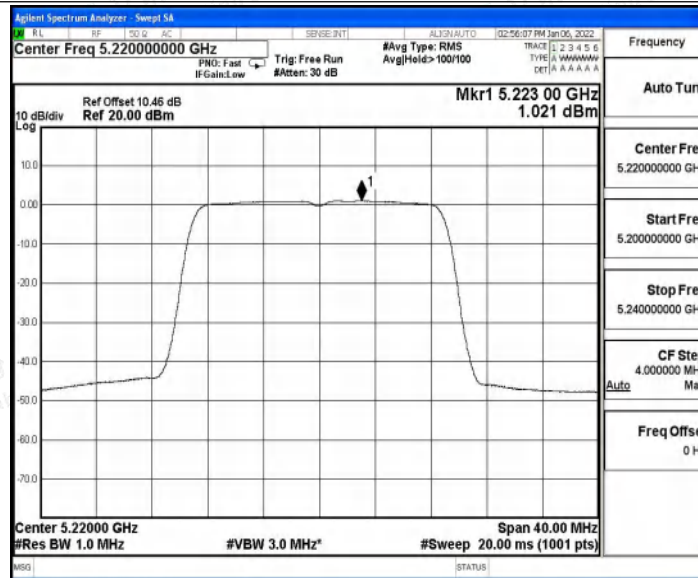


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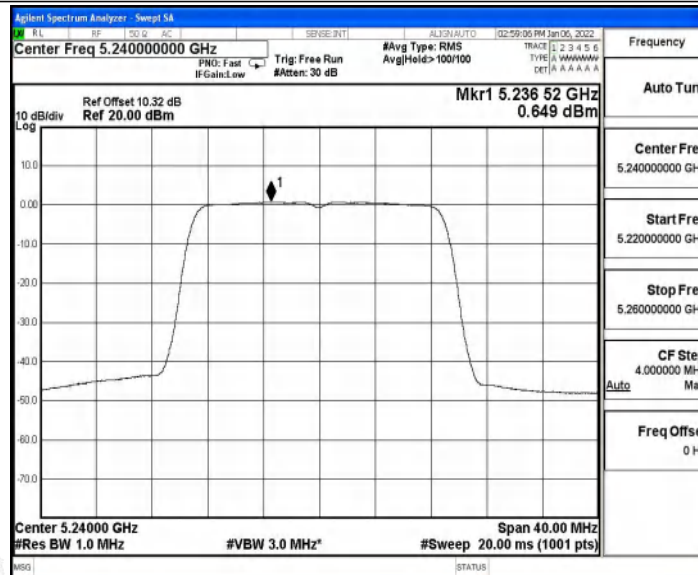
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11N20SISO_Ant1_5240



11N40SISO_Ant1_5190

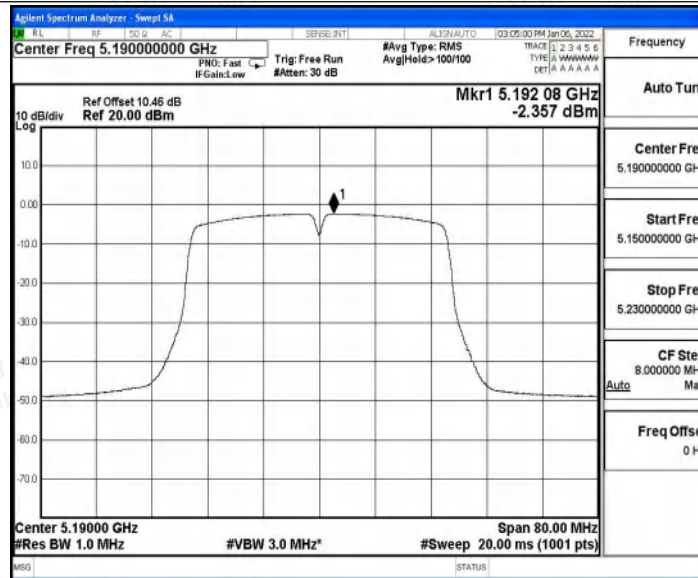


Shenzhen LCS Compliance Testing Laboratory Ltd.

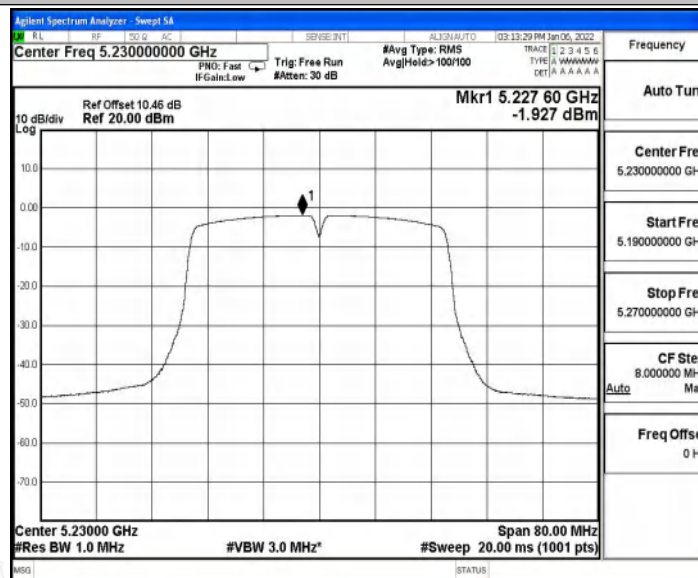
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11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

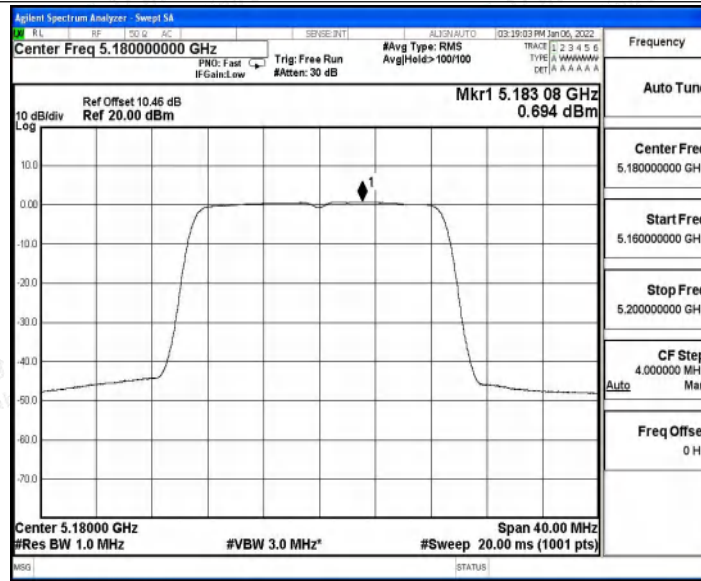


Shenzhen LCS Compliance Testing Laboratory Ltd.

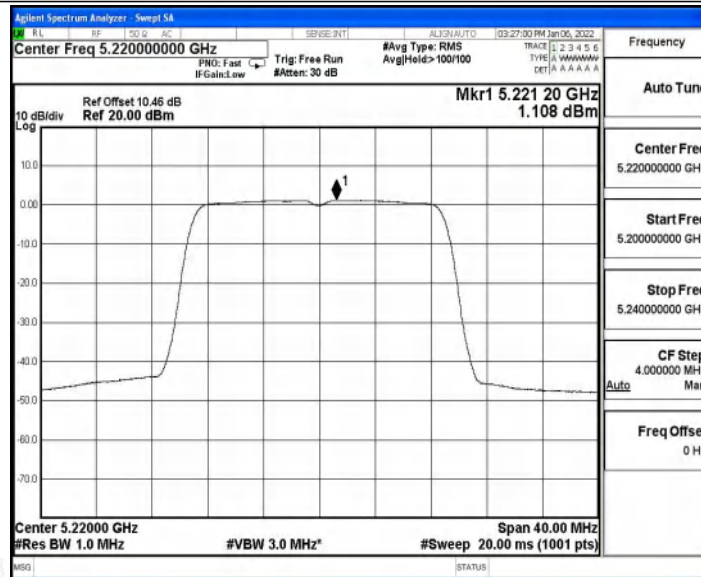
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC20SISO_Ant1_5220



11AC20SISO_Ant1_5240

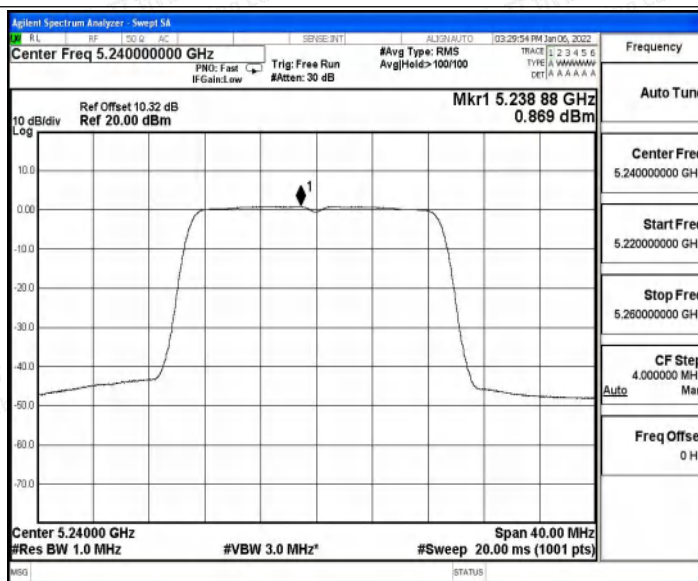


Shenzhen LCS Compliance Testing Laboratory Ltd.

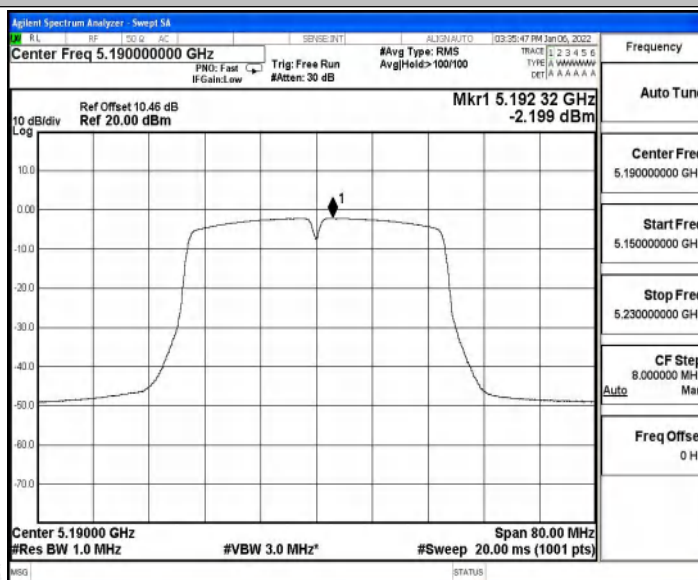
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

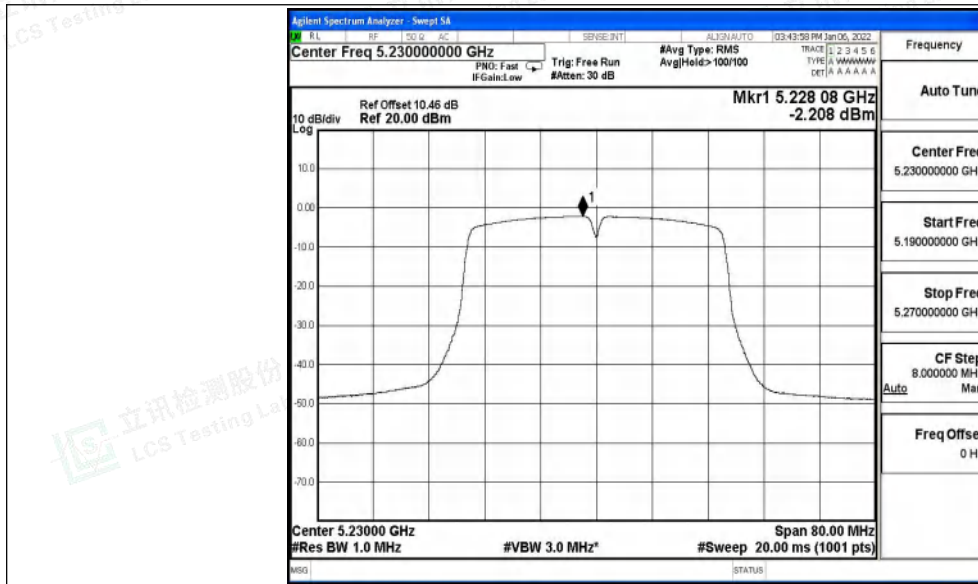


Shenzhen LCS Compliance Testing Laboratory Ltd.

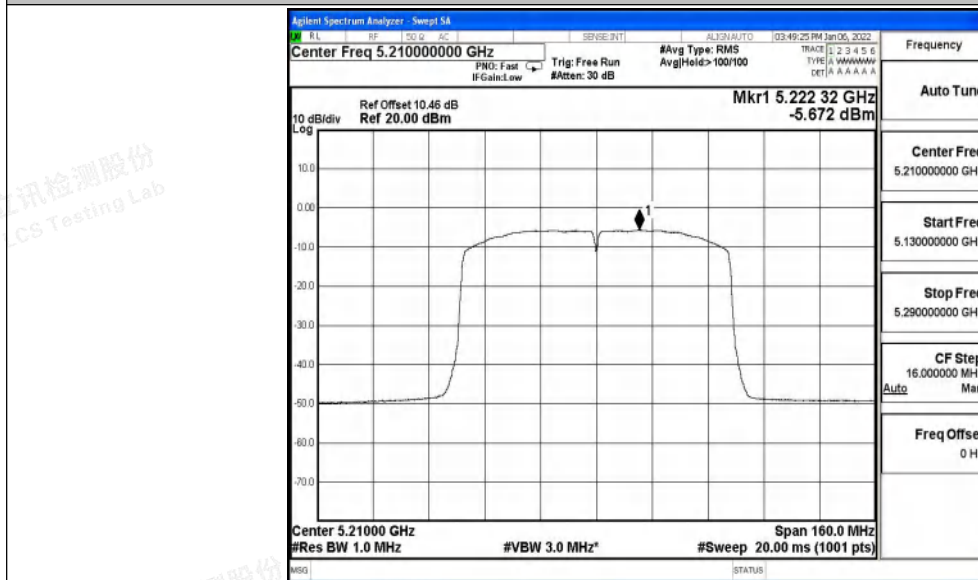
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC80SISO_Ant1_5210



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D.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant0	5180	AV	4500.000	-58.31	≤-41.20	36.89	≤54	PASS
			AV	5149.600	-56.19	≤-41.20	39.01	≤54	PASS
			AV	5150.000	-56.15	≤-41.20	39.05	≤54	PASS
			Peak	4500.000	-48.95	≤-21.20	46.25	≤74	PASS
			Peak	4792.600	-45.22	≤-21.20	49.98	≤74	PASS
			Peak	5150.000	-47.1	≤-21.20	48.10	≤74	PASS
		5240	AV	5350.000	-56.46	≤-41.20	38.74	≤54	PASS
			AV	5397.840	-56.33	≤-41.20	38.87	≤54	PASS
			AV	5460.000	-56.5	≤-41.20	38.70	≤54	PASS
			Peak	5350.000	-48.43	≤-21.20	46.77	≤74	PASS
			Peak	5392.080	-45.31	≤-21.20	49.89	≤74	PASS
			Peak	5460.000	-47.13	≤-21.20	48.07	≤74	PASS
11N20SISO	Ant0	5180	AV	4500.000	-58.27	≤-41.20	36.93	≤54	PASS
			AV	5149.600	-56.24	≤-41.20	38.96	≤54	PASS
			AV	5150.000	-56.21	≤-41.20	38.99	≤54	PASS
			Peak	4500.000	-49.11	≤-21.20	46.09	≤74	PASS
			Peak	5052.300	-45.45	≤-21.20	49.75	≤74	PASS
			Peak	5150.000	-46.8	≤-21.20	48.40	≤74	PASS
		5240	AV	5350.000	-56.45	≤-41.20	38.75	≤54	PASS
			AV	5403.600	-56.32	≤-41.20	38.88	≤54	PASS
			AV	5460.000	-56.44	≤-41.20	38.76	≤54	PASS
			Peak	5350.000	-48.06	≤-21.20	47.14	≤74	PASS
			Peak	5374.560	-45.47	≤-21.20	49.73	≤74	PASS
			Peak	5460.000	-48.16	≤-21.20	47.04	≤74	PASS
11N40SISO	Ant0	5190	AV	4500.000	-57.56	≤-41.20	37.64	≤54	PASS
			AV	5149.600	-53.71	≤-41.20	41.49	≤54	PASS
			AV	5150.000	-53.43	≤-41.20	41.77	≤54	PASS
			Peak	4500.000	-49.49	≤-21.20	45.71	≤74	PASS
			Peak	5149.600	-43.46	≤-21.20	51.74	≤74	PASS
			Peak	5150.000	-42.64	≤-21.20	52.56	≤74	PASS
		5230	AV	5350.000	-56.23	≤-41.20	38.97	≤54	PASS
			AV	5381.740	-56.2	≤-41.20	39.00	≤54	PASS
			AV	5460.000	-56.31	≤-41.20	38.89	≤54	PASS



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			Peak	5350.000	-47.63	≤-21.20	47.57	≤74	PASS
			Peak	5393.440	-44.99	≤-21.20	50.21	≤74	PASS
			Peak	5460.000	-48.27	≤-21.20	46.93	≤74	PASS
11AC20SISO	Ant0	5180	AV	4500.000	-57.57	≤-41.20	37.63	≤54	PASS
			AV	5149.600	-55.54	≤-41.20	39.66	≤54	PASS
			AV	5150.000	-55.52	≤-41.20	39.68	≤54	PASS
			Peak	4500.000	-47.18	≤-21.20	48.02	≤74	PASS
			Peak	5138.400	-44.68	≤-21.20	50.52	≤74	PASS
			Peak	5150.000	-46.96	≤-21.20	48.24	≤74	PASS
		5240	AV	5350.000	-56.5	≤-41.20	38.70	≤54	PASS
			AV	5394.480	-56.37	≤-41.20	38.83	≤54	PASS
			AV	5460.000	-56.58	≤-41.20	38.62	≤54	PASS
			Peak	5350.000	-48.36	≤-21.20	46.84	≤74	PASS
			Peak	5414.400	-44.58	≤-21.20	50.62	≤74	PASS
			Peak	5460.000	-46.53	≤-21.20	48.67	≤74	PASS
11AC40SISO	Ant0	5190	AV	4500.000	-58.36	≤-41.20	36.84	≤54	PASS
			AV	5149.600	-54.22	≤-41.20	40.98	≤54	PASS
			AV	5150.000	-53.91	≤-41.20	41.29	≤54	PASS
			Peak	4500.000	-48.68	≤-21.20	46.52	≤74	PASS
			Peak	5148.900	-44.52	≤-21.20	50.68	≤74	PASS
			Peak	5150.000	-44.71	≤-21.20	50.49	≤74	PASS
		5230	AV	5350.000	-56.26	≤-41.20	38.94	≤54	PASS
			AV	5386.420	-56.2	≤-41.20	39.00	≤54	PASS
			AV	5460.000	-56.31	≤-41.20	38.89	≤54	PASS
			Peak	5350.000	-46.59	≤-21.20	48.61	≤74	PASS
			Peak	5362.240	-44.6	≤-21.20	50.60	≤74	PASS
			Peak	5460.000	-47.43	≤-21.20	47.77	≤74	PASS
11AC80SISO	Ant0	5210	AV	4500.000	-58.36	≤-41.20	36.84	≤54	PASS
			AV	5148.750	-52.74	≤-41.20	42.46	≤54	PASS
			AV	5150.000	-52.48	≤-41.20	42.72	≤54	PASS
			Peak	4500.000	-49.21	≤-21.20	45.99	≤74	PASS
			Peak	5148.750	-42.79	≤-21.20	52.41	≤74	PASS
			Peak	5150.000	-42.33	≤-21.20	52.87	≤74	PASS
		5210	AV	5350.000	-56.23	≤-41.20	38.97	≤54	PASS
			AV	5386.920	-56.2	≤-41.20	39.00	≤54	PASS
			AV	5460.000	-56.33	≤-41.20	38.87	≤54	PASS
			Peak	5350.000	-47.22	≤-21.20	47.98	≤74	PASS
			Peak	5403.160	-45.21	≤-21.20	49.99	≤74	PASS



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			Peak	5460.000	-46.95	≤-21.20	48.25	≤74	PASS
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TestMode	Antenna	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	5180	AV	4500.000	-58.13	≤-41.20	37.07	≤54	PASS
			AV	5149.600	-51.22	≤-41.20	43.98	≤54	PASS
			AV	5150.000	-50.66	≤-41.20	44.54	≤54	PASS
			Peak	4500.000	-48.77	≤-21.20	46.43	≤74	PASS
			Peak	5148.900	-37.55	≤-21.20	57.65	≤74	PASS
			Peak	5150.000	-39.07	≤-21.20	56.13	≤74	PASS
		5240	AV	5350.000	-55.15	≤-41.20	40.05	≤54	PASS
			AV	5395.680	-54.77	≤-41.20	40.43	≤54	PASS
			AV	5460.000	-55.33	≤-41.20	39.87	≤54	PASS
			Peak	5350.000	-47.34	≤-21.20	47.86	≤74	PASS
			Peak	5401.680	-44.11	≤-21.20	51.09	≤74	PASS
			Peak	5460.000	-45.95	≤-21.20	49.25	≤74	PASS
11N20SISO	Ant1	5180	AV	4500.000	-58.17	≤-41.20	37.03	≤54	PASS
			AV	5149.600	-53.11	≤-41.20	42.09	≤54	PASS
			AV	5150.000	-53	≤-41.20	42.20	≤54	PASS
			Peak	4500.000	-48.81	≤-21.20	46.39	≤74	PASS
			Peak	5149.600	-43.25	≤-21.20	51.95	≤74	PASS
			Peak	5150.000	-43.92	≤-21.20	51.28	≤74	PASS
		5240	AV	5350.000	-55.23	≤-41.20	39.97	≤54	PASS
			AV	5404.560	-55.01	≤-41.20	40.19	≤54	PASS
			AV	5460.000	-55.42	≤-41.20	39.78	≤54	PASS
			Peak	5350.000	-47.4	≤-21.20	47.80	≤74	PASS
			Peak	5380.560	-44.3	≤-21.20	50.90	≤74	PASS
			Peak	5460.000	-46.36	≤-21.20	48.84	≤74	PASS
11N40SISO	Ant1	5190	AV	4500.000	-58.15	≤-41.20	37.05	≤54	PASS
			AV	5149.600	-51.53	≤-41.20	43.67	≤54	PASS
			AV	5150.000	-51.34	≤-41.20	43.86	≤54	PASS
			Peak	4500.000	-49.59	≤-21.20	45.61	≤74	PASS
			Peak	5149.600	-41.91	≤-21.20	53.29	≤74	PASS
			Peak	5150.000	-42.04	≤-21.20	53.16	≤74	PASS
		5230	AV	5350.000	-54.62	≤-41.20	40.58	≤54	PASS
			AV	5389.800	-54.57	≤-41.20	40.63	≤54	PASS
			AV	5460.000	-54.9	≤-41.20	40.30	≤54	PASS
			Peak	5350.000	-45.15	≤-21.20	50.05	≤74	PASS
			Peak	5405.920	-43.26	≤-21.20	51.94	≤74	PASS



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11AC20SISO	Ant1	5180	Peak	5460.000	-46.28	≤-21.20	48.92	≤74	PASS
			AV	4500.000	-57.49	≤-41.20	37.71	≤54	PASS
			AV	5149.600	-52.84	≤-41.20	42.36	≤54	PASS
			AV	5150.000	-52.71	≤-41.20	42.49	≤54	PASS
			Peak	4500.000	-47.71	≤-21.20	47.49	≤74	PASS
			Peak	5149.600	-42.77	≤-21.20	52.43	≤74	PASS
			Peak	5150.000	-42.66	≤-21.20	52.54	≤74	PASS
		5240	AV	5350.000	-55.2	≤-41.20	40.00	≤54	PASS
			AV	5400.000	-54.97	≤-41.20	40.23	≤54	PASS
			AV	5460.000	-55.38	≤-41.20	39.82	≤54	PASS
			Peak	5350.000	-46.16	≤-21.20	49.04	≤74	PASS
			Peak	5405.760	-44.14	≤-21.20	51.06	≤74	PASS
			Peak	5460.000	-46.2	≤-21.20	49.00	≤74	PASS
11AC40SISO	Ant1	5190	AV	4500.000	-57.55	≤-41.20	37.65	≤54	PASS
			AV	5149.600	-51.23	≤-41.20	43.97	≤54	PASS
			AV	5150.000	-51.04	≤-41.20	44.16	≤54	PASS
			Peak	4500.000	-47.81	≤-21.20	47.39	≤74	PASS
			Peak	5146.800	-41.59	≤-21.20	53.61	≤74	PASS
			Peak	5150.000	-41.6	≤-21.20	53.60	≤74	PASS
		5230	AV	5350.000	-54.64	≤-41.20	40.56	≤54	PASS
			AV	5350.020	-54.64	≤-41.20	40.56	≤54	PASS
			AV	5460.000	-55	≤-41.20	40.20	≤54	PASS
			Peak	5350.000	-46.65	≤-21.20	48.55	≤74	PASS
			Peak	5380.960	-43.61	≤-21.20	51.59	≤74	PASS
			Peak	5460.000	-46.28	≤-21.20	48.92	≤74	PASS
11AC80SISO	Ant1	5210	AV	4500.000	-57.58	≤-41.20	37.62	≤54	PASS
			AV	5149.500	-51.79	≤-41.20	43.41	≤54	PASS
			AV	5150.000	-51.62	≤-41.20	43.58	≤54	PASS
			Peak	4500.000	-49.06	≤-21.20	46.14	≤74	PASS
			Peak	5139.750	-41.63	≤-21.20	53.57	≤74	PASS
			Peak	5150.000	-43.05	≤-21.20	52.15	≤74	PASS
		5210	AV	5350.000	-54.66	≤-41.20	40.54	≤54	PASS
			AV	5369.840	-54.62	≤-41.20	40.58	≤54	PASS
			AV	5460.000	-55.11	≤-41.20	40.09	≤54	PASS
			Peak	5350.000	-44.26	≤-21.20	50.94	≤74	PASS
			Peak	5447.400	-44.35	≤-21.20	50.85	≤74	PASS
			Peak	5460.000	-46.97	≤-21.20	48.23	≤74	PASS



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MIMO

TestMode	Channel	Detector	Freq. [MHz]	Ant0 [dBm]	Ant1 [dBm]	Sum [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11N20	5180	AV	4500.000	-58.27	-58.17	-55.21	≤-41.20	42.02	≤54	PASS
		AV	5149.600	-56.24	-53.11	-51.39	≤-41.20	45.84	≤54	PASS
		AV	5150.000	-56.21	-53	-51.30	≤-41.20	45.92	≤54	PASS
		Peak	4500.000	-49.11	-48.81	-45.95	≤-21.20	51.28	≤74	PASS
		Peak	5052.300	-45.45	-43.25	-41.20	≤-21.20	56.03	≤74	PASS
		Peak	5150.000	-46.8	-43.92	-42.12	≤-21.20	55.11	≤74	PASS
	5240	AV	5350.000	-56.45	-55.23	-52.79	≤-41.20	44.44	≤54	PASS
		AV	5403.600	-56.32	-55.01	-52.61	≤-41.20	44.62	≤54	PASS
		AV	5460.000	-56.44	-55.42	-52.89	≤-41.20	44.34	≤54	PASS
		Peak	5350.000	-48.06	-47.4	-44.71	≤-21.20	52.52	≤74	PASS
		Peak	5374.560	-45.47	-44.3	-41.84	≤-21.20	55.39	≤74	PASS
		Peak	5460.000	-48.16	-46.36	-44.16	≤-21.20	53.07	≤74	PASS
11N40	5190	AV	4500.000	-57.56	-58.15	-54.83	≤-41.20	42.39	≤54	PASS
		AV	5149.600	-53.71	-51.53	-49.47	≤-41.20	47.75	≤54	PASS
		AV	5150.000	-53.43	-51.34	-49.25	≤-41.20	47.98	≤54	PASS
		Peak	4500.000	-49.49	-49.59	-46.53	≤-21.20	50.70	≤74	PASS
		Peak	5149.600	-43.46	-41.91	-39.61	≤-21.20	57.62	≤74	PASS
		Peak	5150.000	-42.64	-42.04	-39.32	≤-21.20	57.91	≤74	PASS
	5230	AV	5350.000	-56.23	-54.62	-52.34	≤-41.20	44.89	≤54	PASS
		AV	5381.740	-56.2	-54.57	-52.30	≤-41.20	44.93	≤54	PASS
		AV	5460.000	-56.31	-54.9	-52.54	≤-41.20	44.69	≤54	PASS
		Peak	5350.000	-47.63	-45.15	-43.21	≤-21.20	54.02	≤74	PASS
		Peak	5393.440	-44.99	-43.26	-41.03	≤-21.20	56.20	≤74	PASS
		Peak	5460.000	-48.27	-46.28	-44.15	≤-21.20	53.08	≤74	PASS
11AC20	5180	AV	4500.000	-57.57	-57.49	-54.52	≤-41.20	42.71	≤54	PASS
		AV	5149.600	-55.54	-52.84	-50.97	≤-41.20	46.25	≤54	PASS
		AV	5150.000	-55.52	-52.71	-50.88	≤-41.20	46.35	≤54	PASS
		Peak	4500.000	-47.18	-47.71	-44.43	≤-21.20	52.80	≤74	PASS
		Peak	5138.400	-44.68	-42.77	-40.61	≤-21.20	56.62	≤74	PASS
		Peak	5150.000	-46.96	-42.66	-41.29	≤-21.20	55.94	≤74	PASS
	5240	AV	5350.000	-56.5	-55.2	-52.79	≤-41.20	44.44	≤54	PASS
		AV	5394.480	-56.37	-54.97	-52.60	≤-41.20	44.62	≤54	PASS
		AV	5460.000	-56.58	-55.38	-52.93	≤-41.20	44.30	≤54	PASS
		Peak	5350.000	-48.36	-46.16	-44.11	≤-21.20	53.12	≤74	PASS
		Peak	5414.400	-44.58	-44.14	-41.34	≤-21.20	55.88	≤74	PASS



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11AC40	5190	Peak	5460.000	-46.53	-46.2	-43.35	≤-21.20	53.88	≤74	PASS
		AV	4500.000	-58.36	-57.55	-54.93	≤-41.20	42.30	≤54	PASS
		AV	5149.600	-54.22	-51.23	-49.46	≤-41.20	47.77	≤54	PASS
		AV	5150.000	-53.91	-51.04	-49.23	≤-41.20	48.00	≤54	PASS
		Peak	4500.000	-48.68	-47.81	-45.21	≤-21.20	52.01	≤74	PASS
		Peak	5148.900	-44.52	-41.59	-39.80	≤-21.20	57.43	≤74	PASS
	5230	Peak	5150.000	-44.71	-41.6	-39.87	≤-21.20	57.36	≤74	PASS
		AV	5350.000	-56.26	-54.64	-52.36	≤-41.20	44.86	≤54	PASS
		AV	5386.420	-56.2	-54.64	-52.34	≤-41.20	44.89	≤54	PASS
		AV	5460.000	-56.31	-55	-52.60	≤-41.20	44.63	≤54	PASS
		Peak	5350.000	-46.59	-46.65	-43.61	≤-21.20	53.62	≤74	PASS
		Peak	5362.240	-44.6	-43.61	-41.07	≤-21.20	56.16	≤74	PASS
11AC80	5210	Peak	5460.000	-47.43	-46.28	-43.81	≤-21.20	53.42	≤74	PASS
		AV	4500.000	-58.36	-57.58	-54.94	≤-41.20	42.29	≤54	PASS
		AV	5148.750	-52.74	-51.79	-49.23	≤-41.20	48.00	≤54	PASS
		AV	5150.000	-52.48	-51.62	-49.02	≤-41.20	48.21	≤54	PASS
		Peak	4500.000	-49.21	-49.06	-46.12	≤-21.20	51.10	≤74	PASS
		Peak	5148.750	-42.79	-41.63	-39.16	≤-21.20	58.07	≤74	PASS
	5210	Peak	5150.000	-42.33	-43.05	-39.66	≤-21.20	57.56	≤74	PASS
		AV	5350.000	-56.23	-54.66	-52.36	≤-41.20	44.86	≤54	PASS
		AV	5386.920	-56.2	-54.62	-52.33	≤-41.20	44.90	≤54	PASS
		AV	5460.000	-56.33	-55.11	-52.67	≤-41.20	44.56	≤54	PASS
		Peak	5350.000	-47.22	-44.26	-42.48	≤-21.20	54.75	≤74	PASS
		Peak	5403.160	-45.21	-44.35	-41.75	≤-21.20	55.48	≤74	PASS
		Peak	5460.000	-46.95	-46.97	-43.95	≤-21.20	53.28	≤74	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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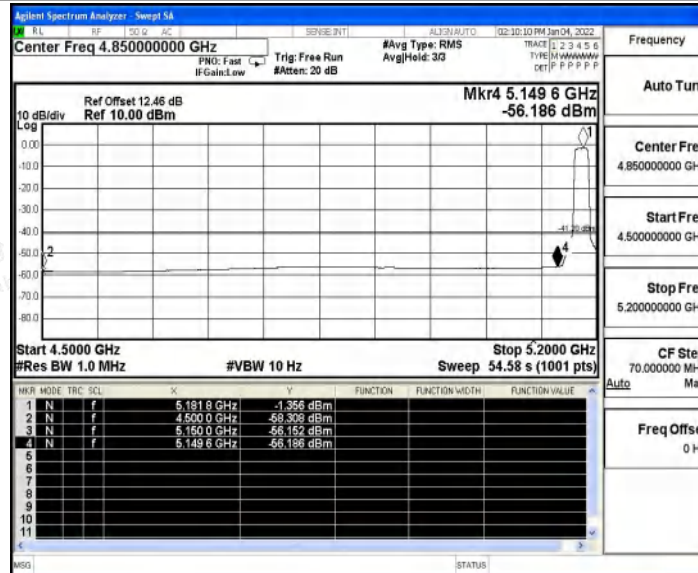
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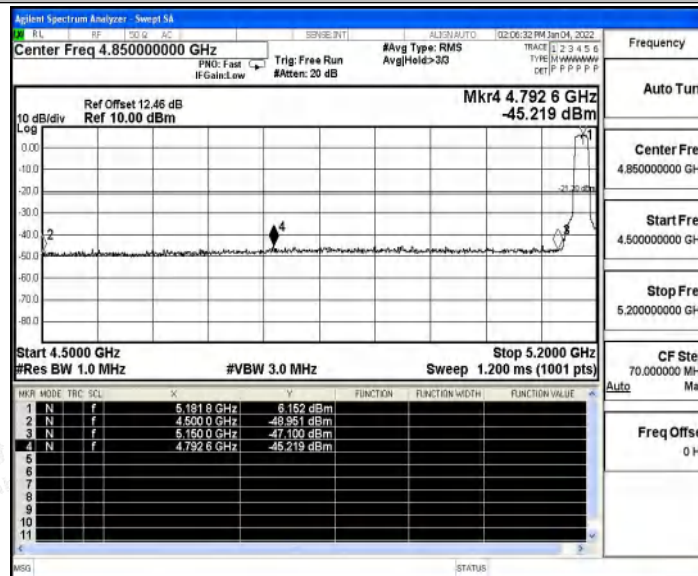


Test Graphs

11A_Ant0_Low_5180_AV



11A_Ant0_Low_5180_Peak



11A_Ant0_High_5240_AV

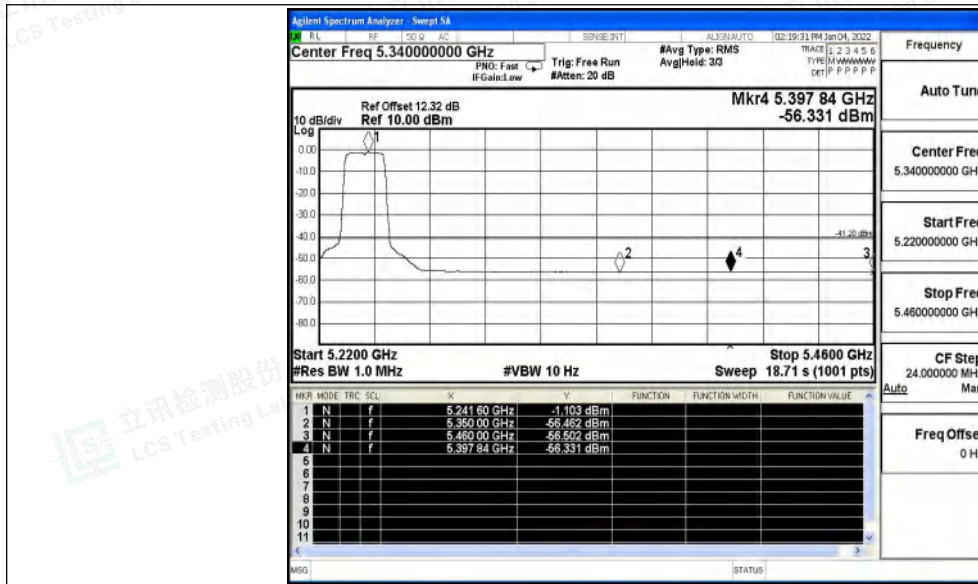


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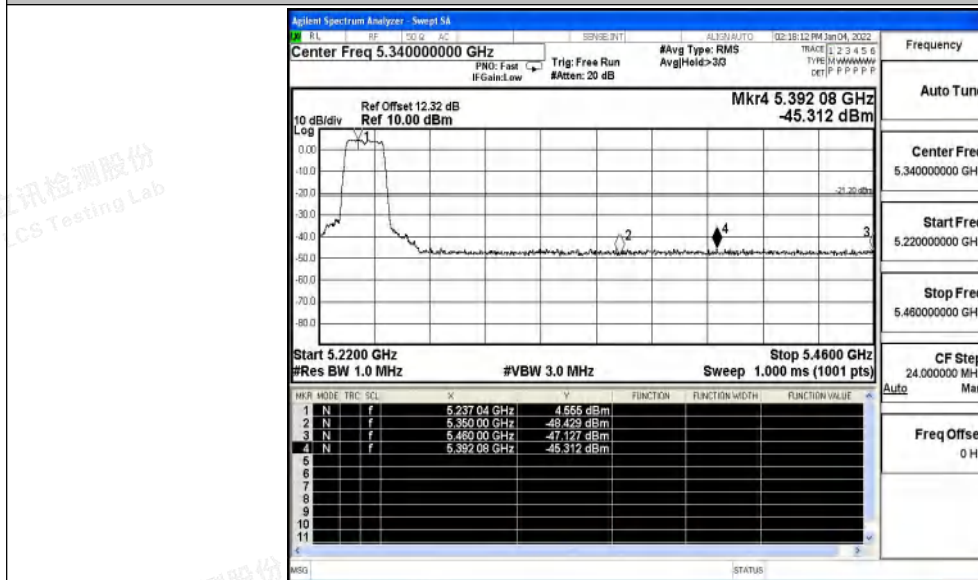
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11A_Ant0_High_5240_Peak



11N20SISO_Ant0_Low_5180_AV

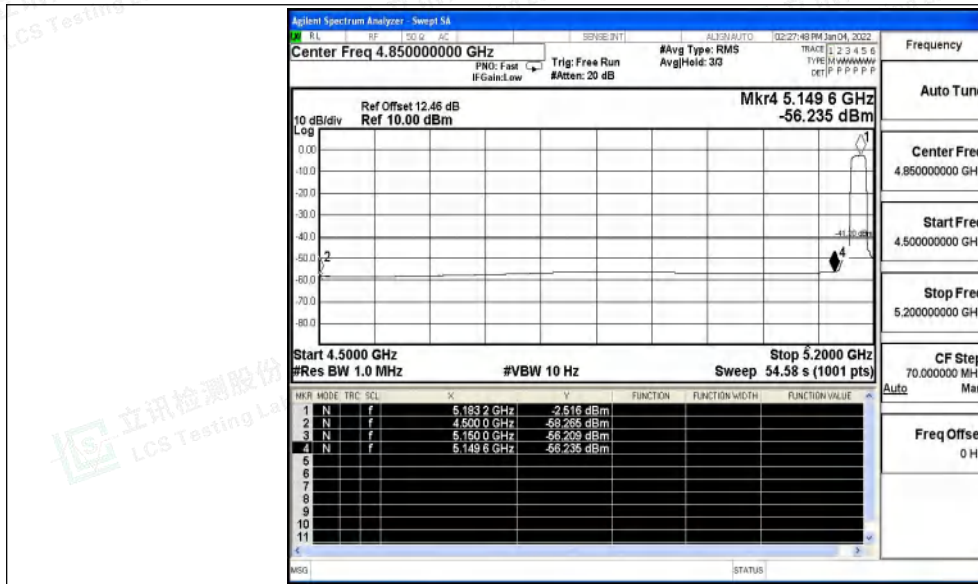


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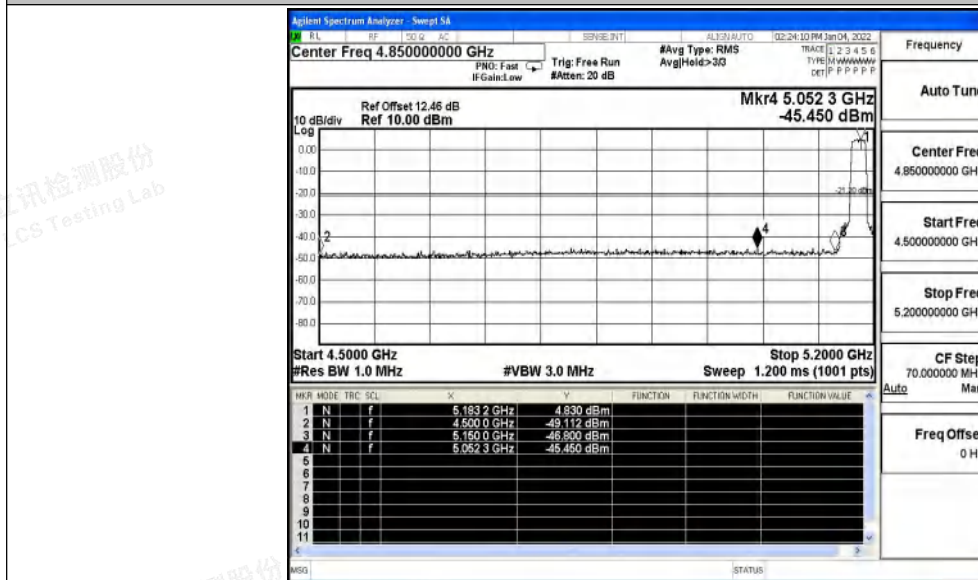
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11N20SISO_Ant0_Low_5180_Peak



11N20SISO_Ant0_High_5240_AV

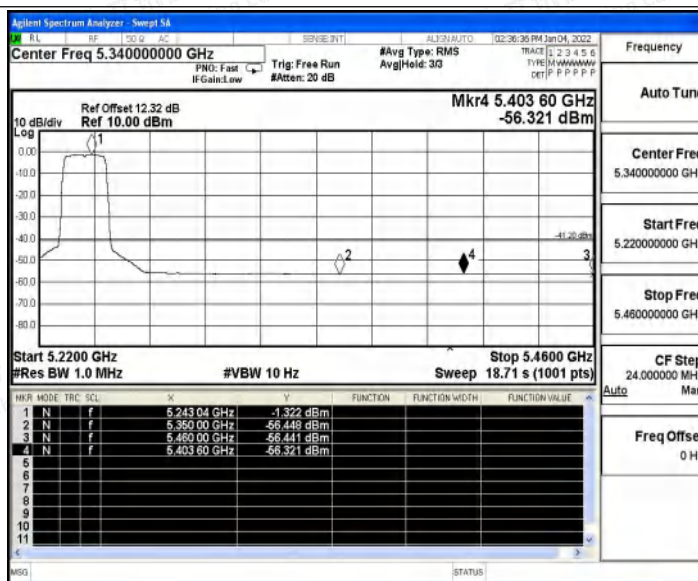


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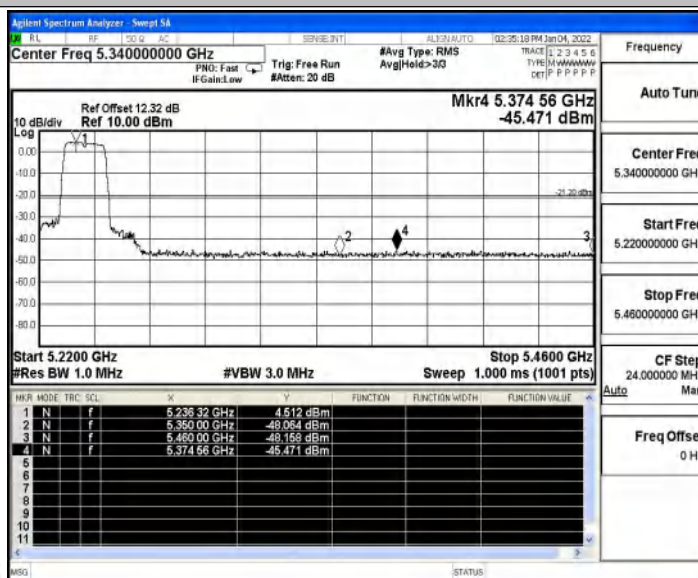
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11N20SISO_Ant0_High_5240_Peak



11N40SISO_Ant0_Low_5190_AV

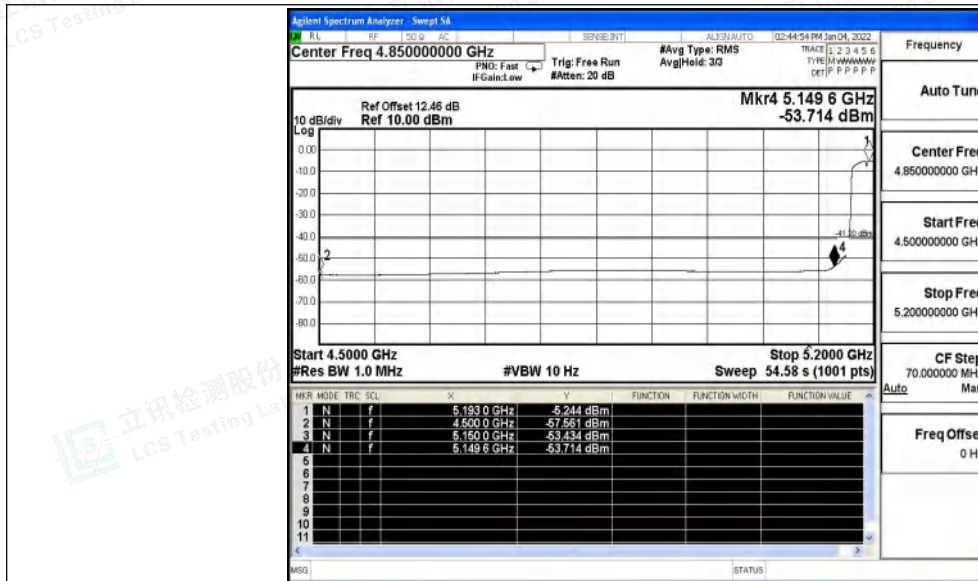


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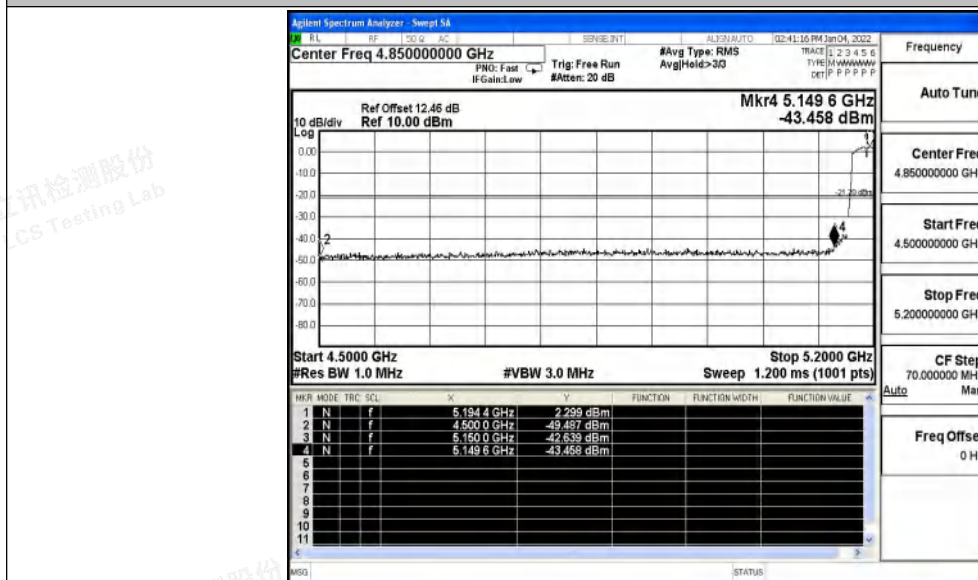
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11N40SISO_Ant0_Low_5190_Peak



11N40SISO_Ant0_High_5230_AV

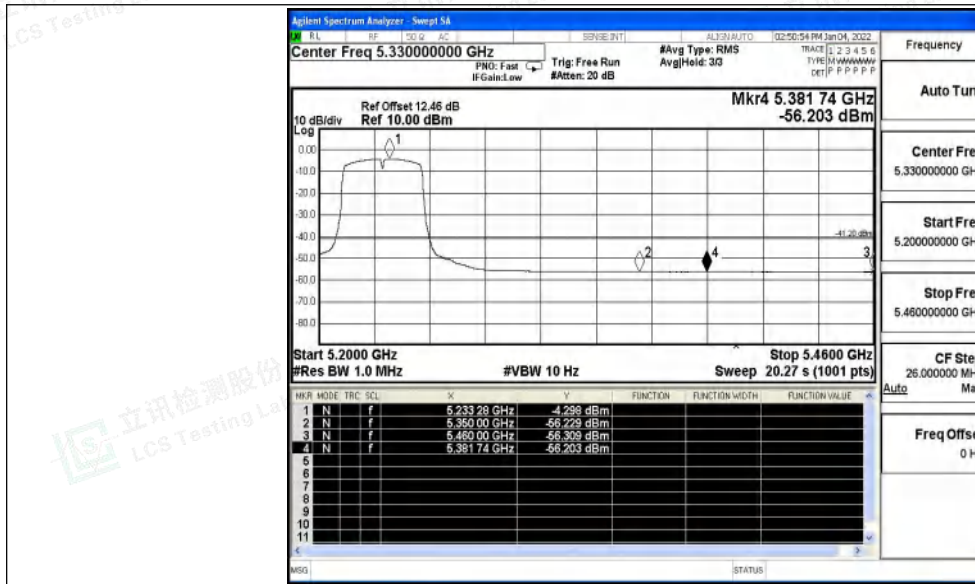


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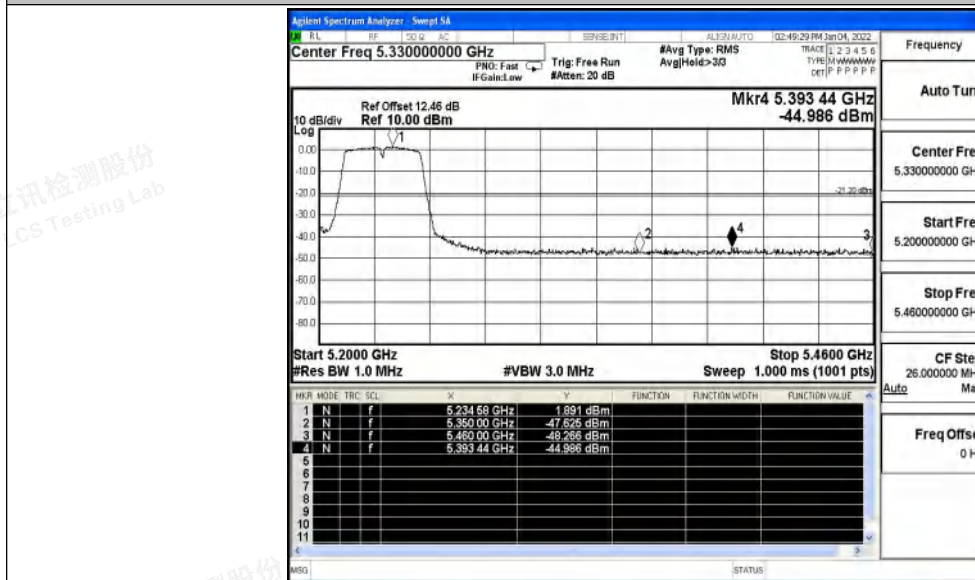
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11N40SISO_Ant0_High_5230_Peak



11AC20SISO_Ant0_Low_5180_AV

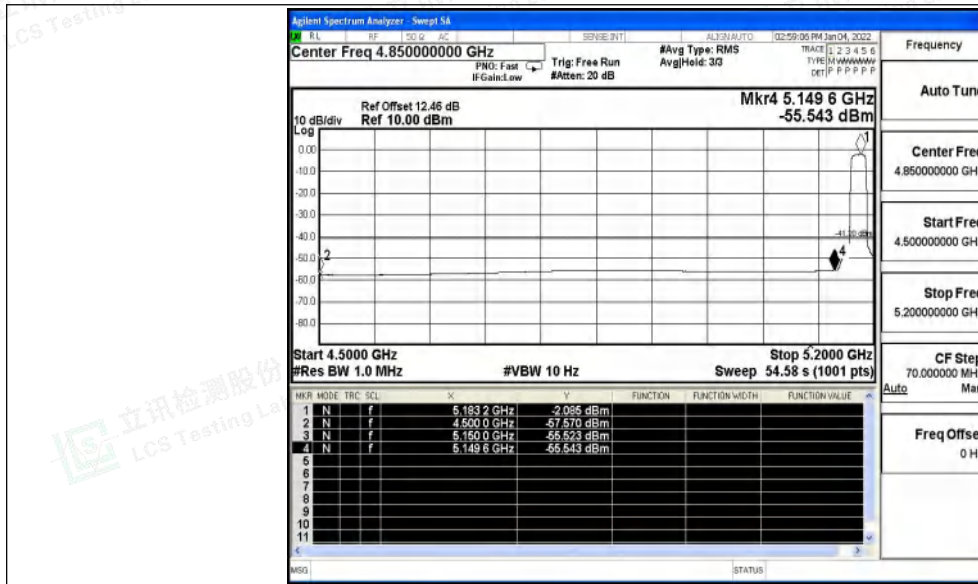


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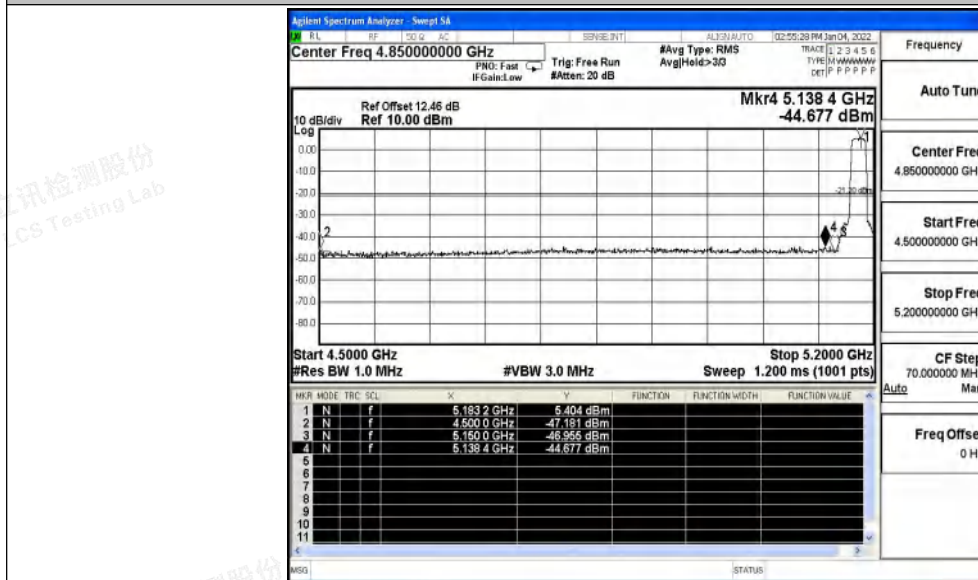
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11AC20SISO_Ant0_Low_5180_Peak



11AC20SISO_Ant0_High_5240_AV

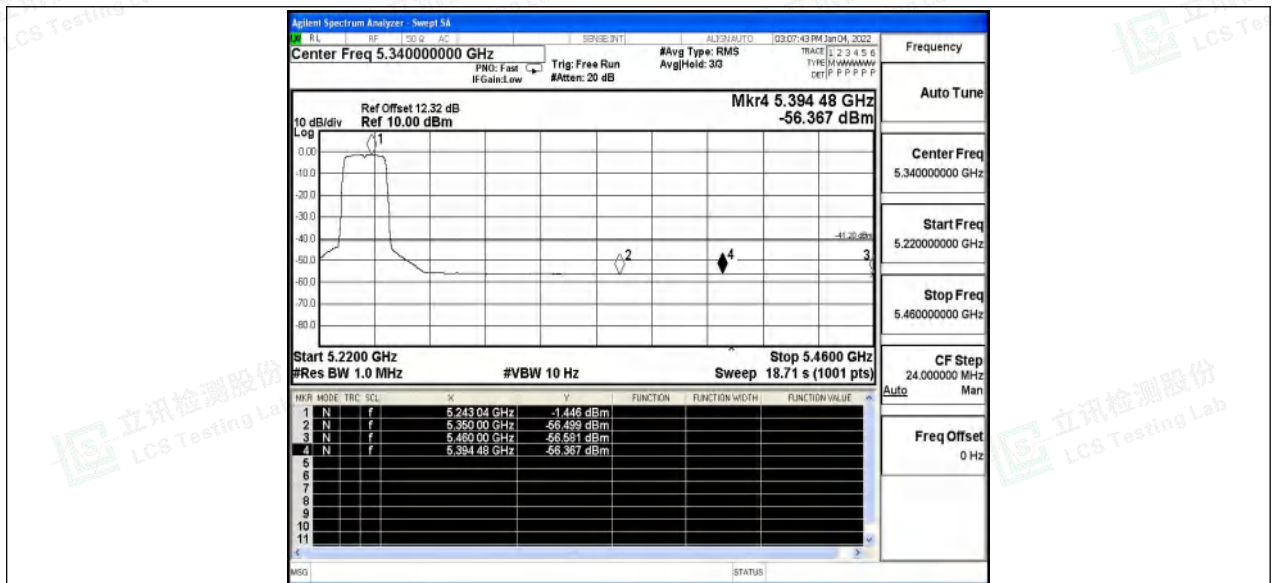


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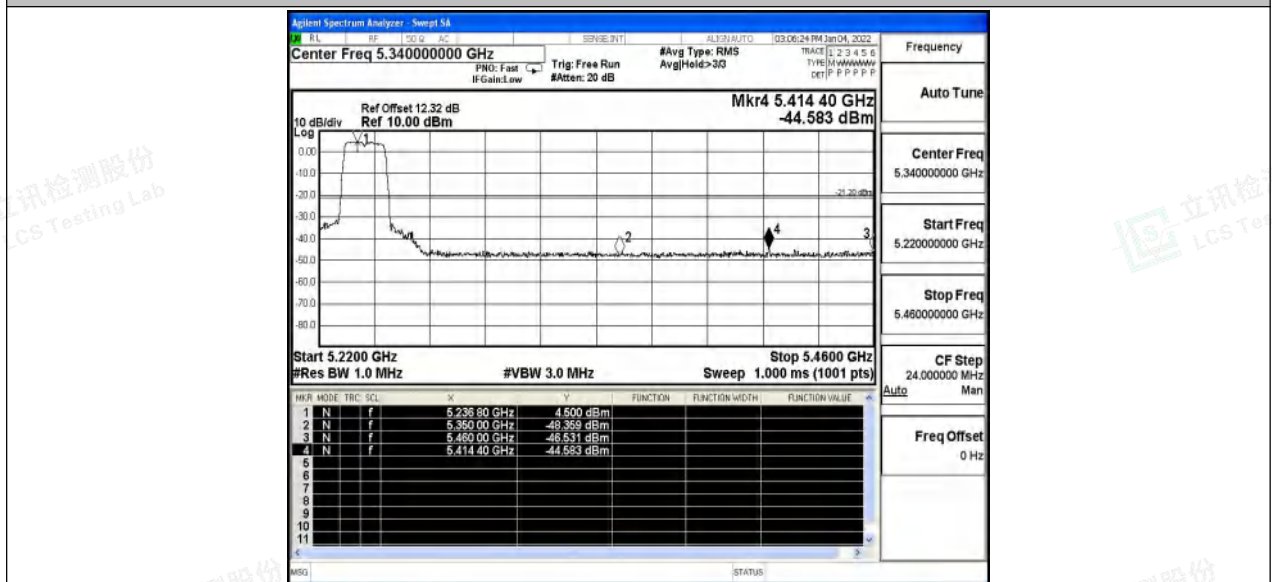
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11AC20SISO_Ant0_High_5240_Peak



11AC40SISO_Ant0_Low_5190_AV

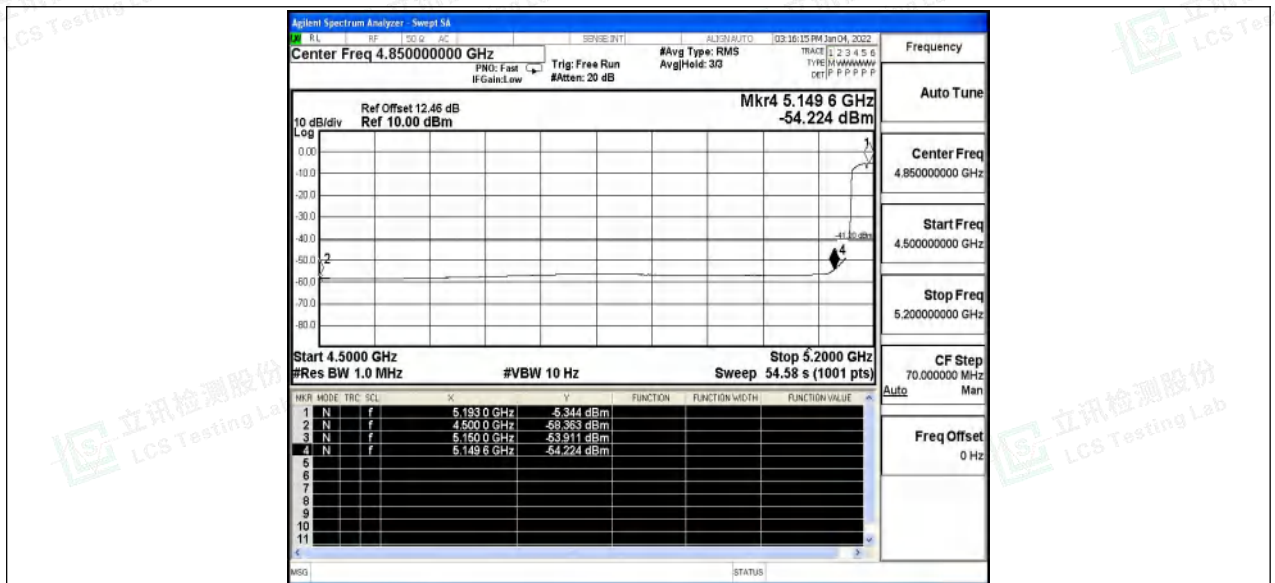


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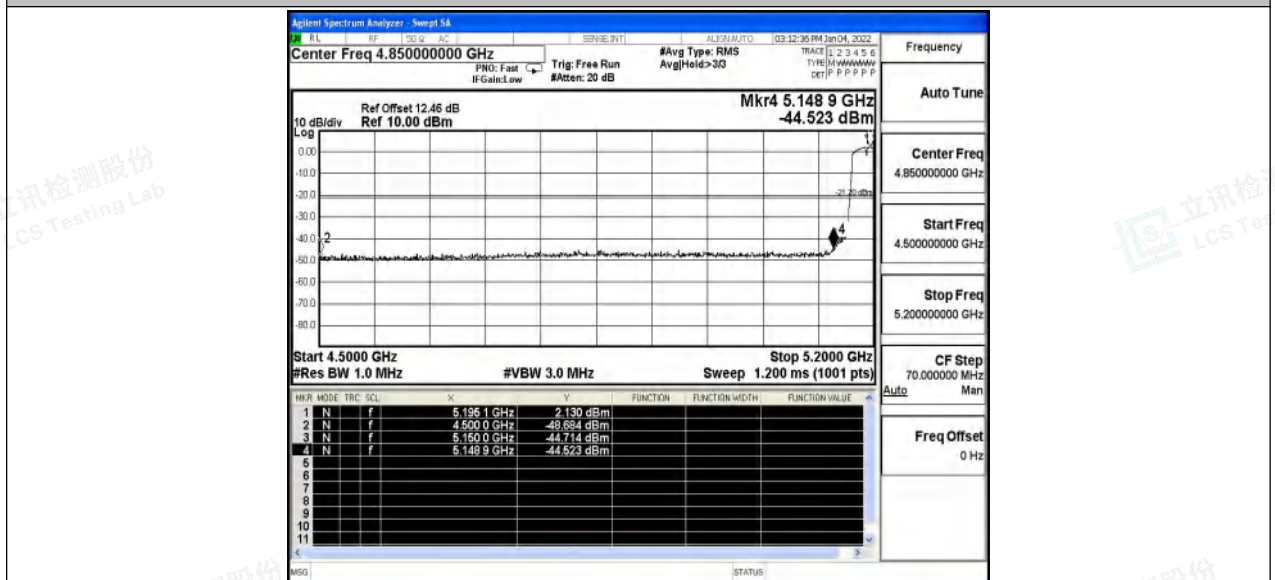
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11AC40SISO_Ant0_Low_5190_Peak



11AC40SISO_Ant0_High_5230_AV

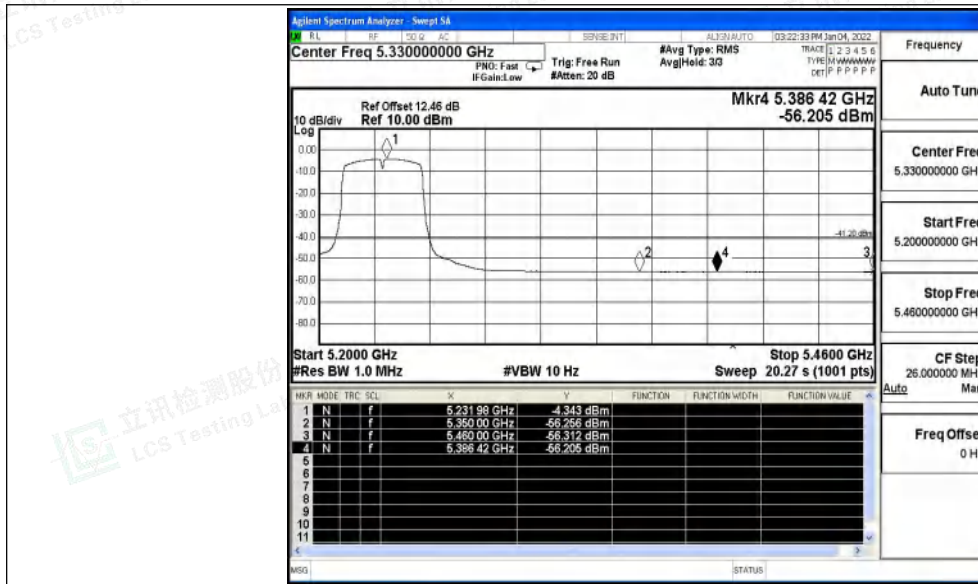


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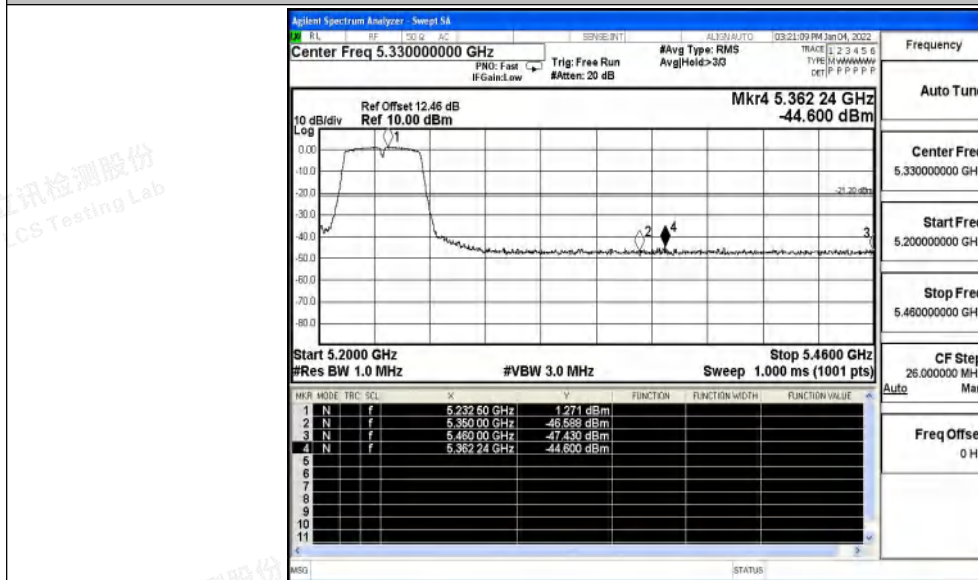
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11AC40SISO_Ant0_High_5230_Peak



11AC80SISO_Ant0_Low_5210_AV

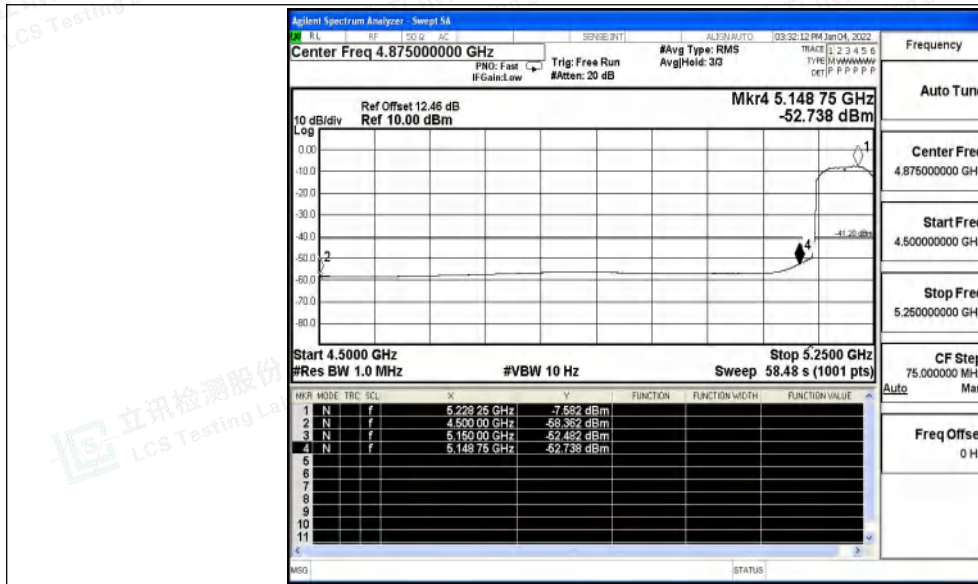


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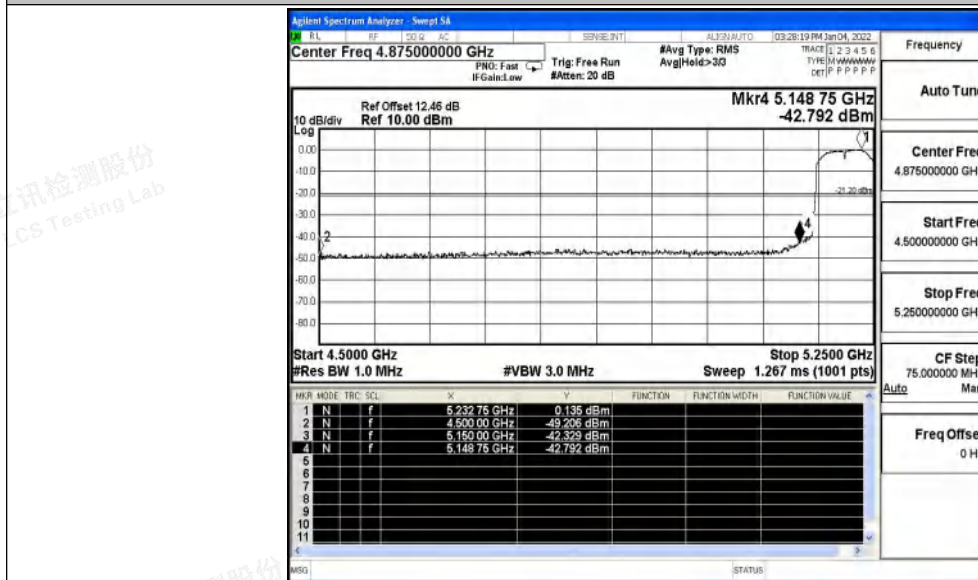
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11AC80SISO_Ant0_Low_5210_Peak



11AC80SISO_Ant0_High_5210_AV

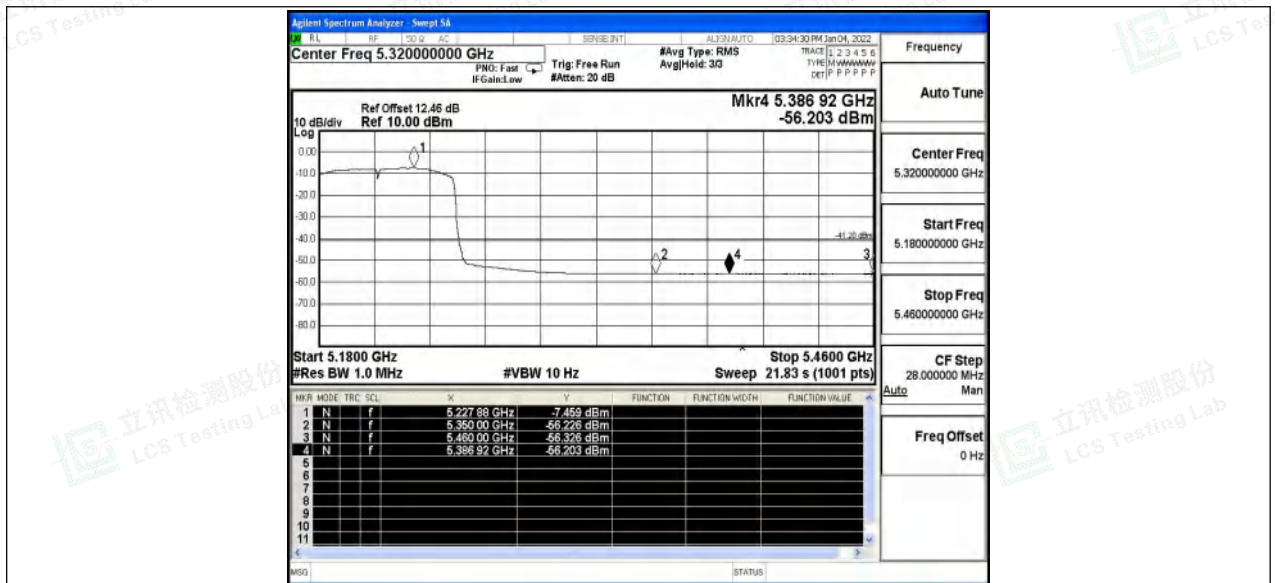


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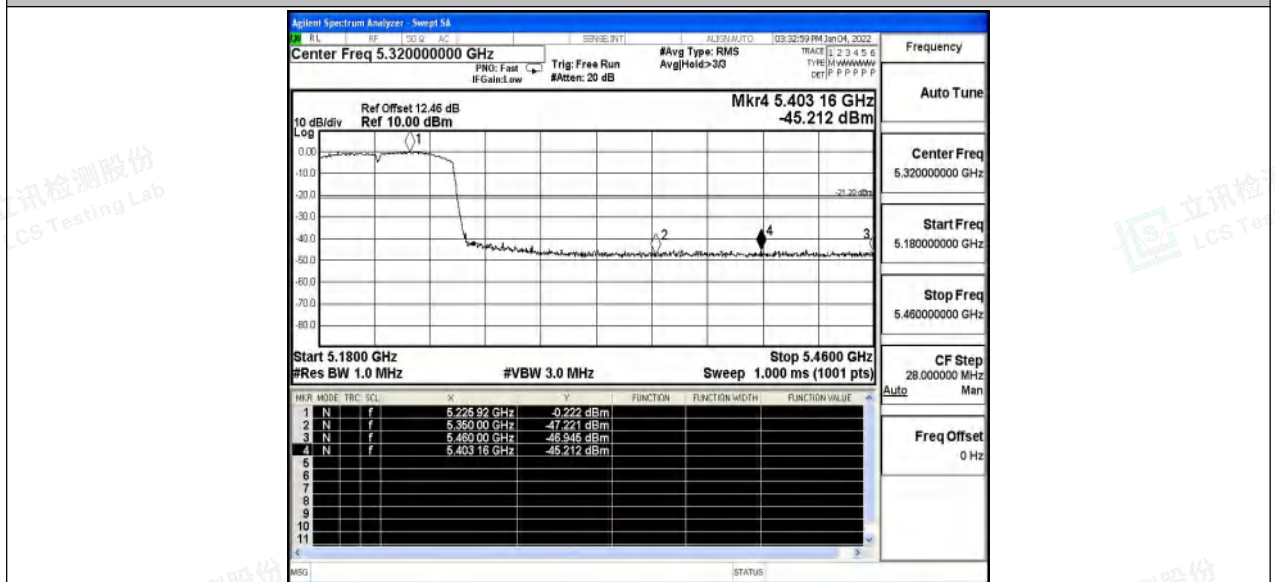
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11AC80SISO_Ant0_High_5210_Peak



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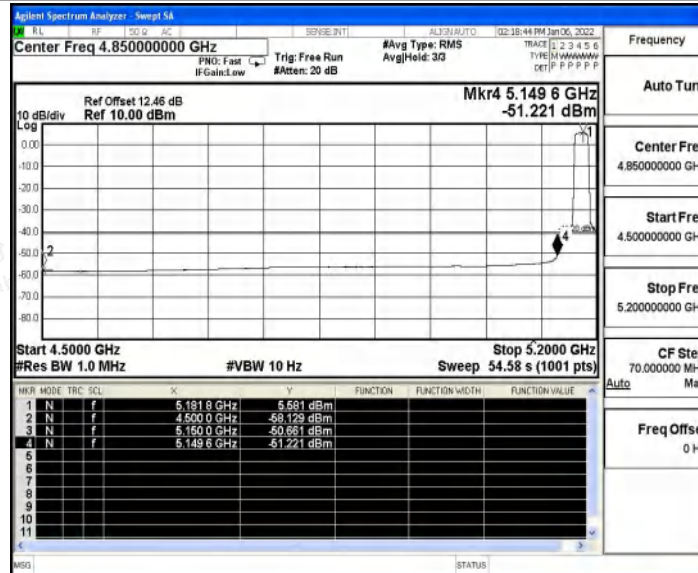
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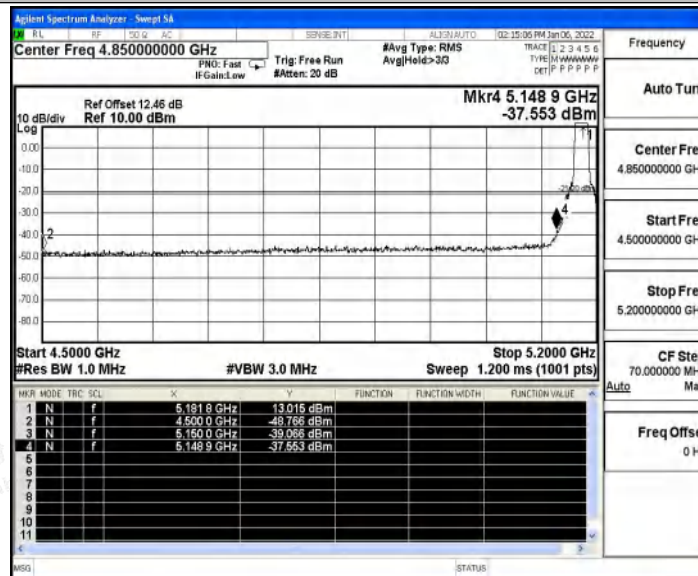


Test Graphs

11A_Ant1_Low_5180_AV



11A_Ant1_Low_5180_Peak



11A_Ant1_High_5240_AV

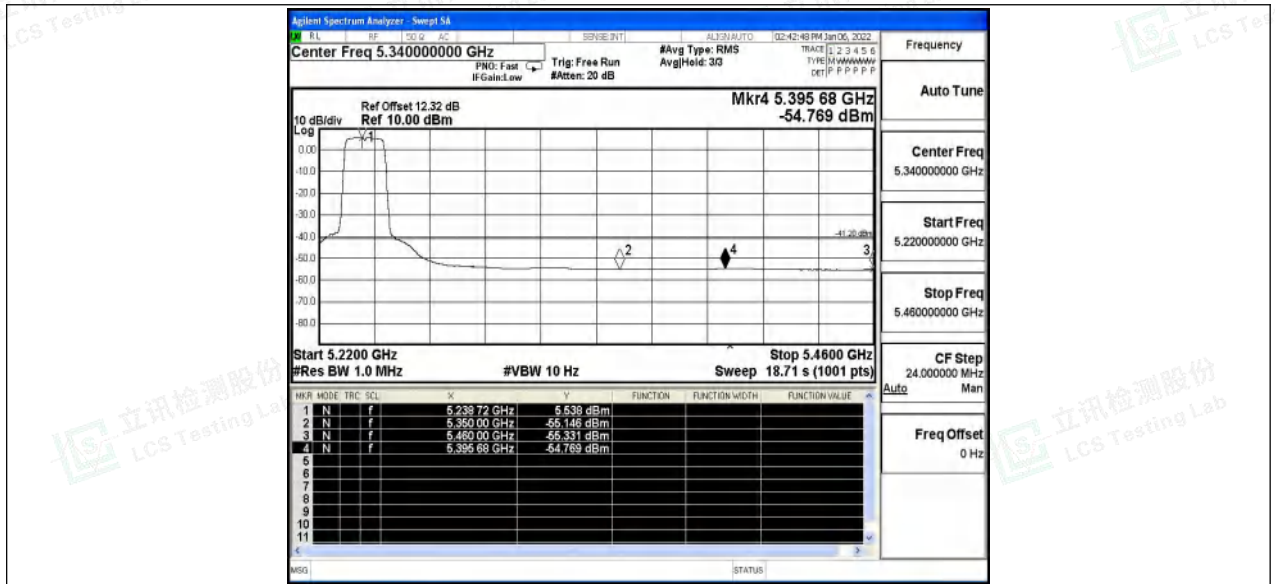


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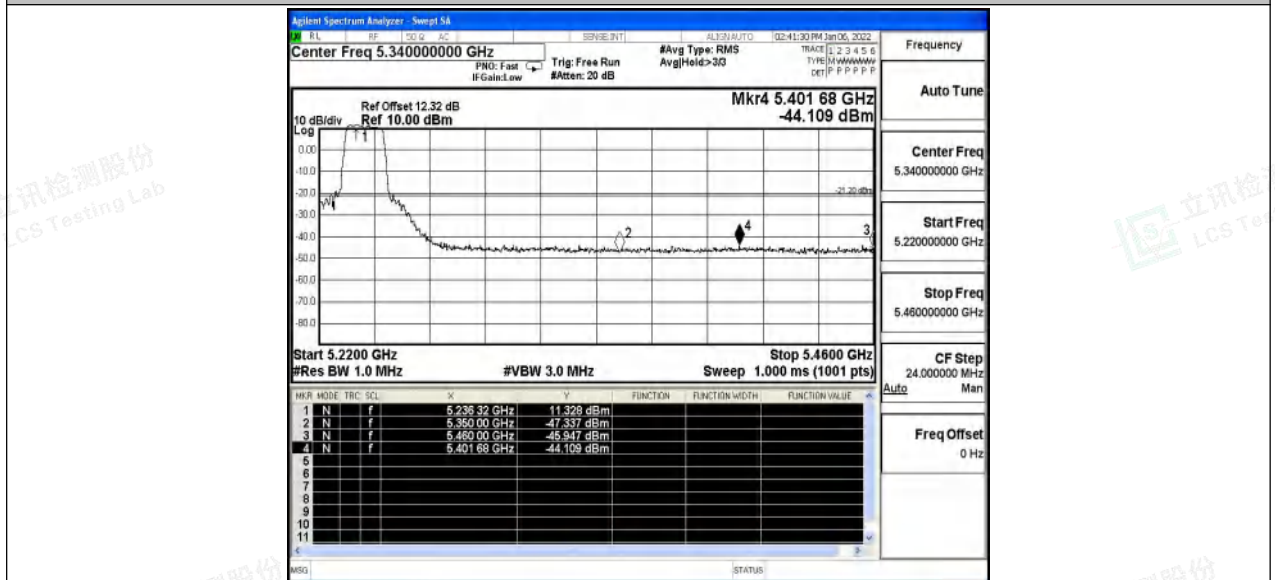
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11A_Ant1_High_5240_Peak



11N20SISO_Ant1_Low_5180_AV

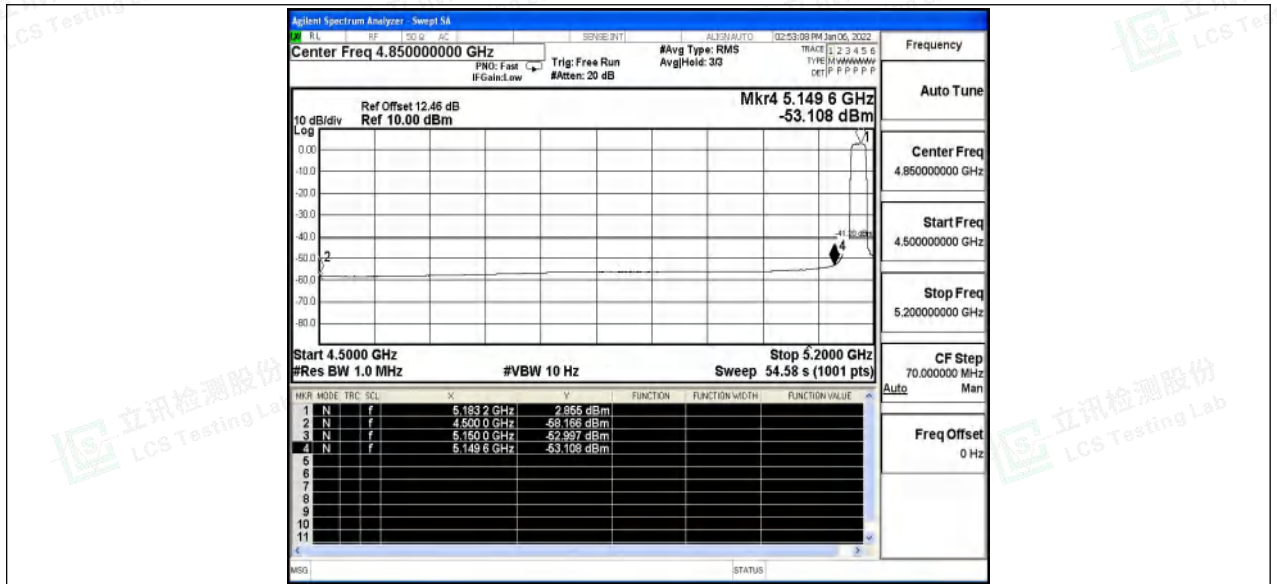


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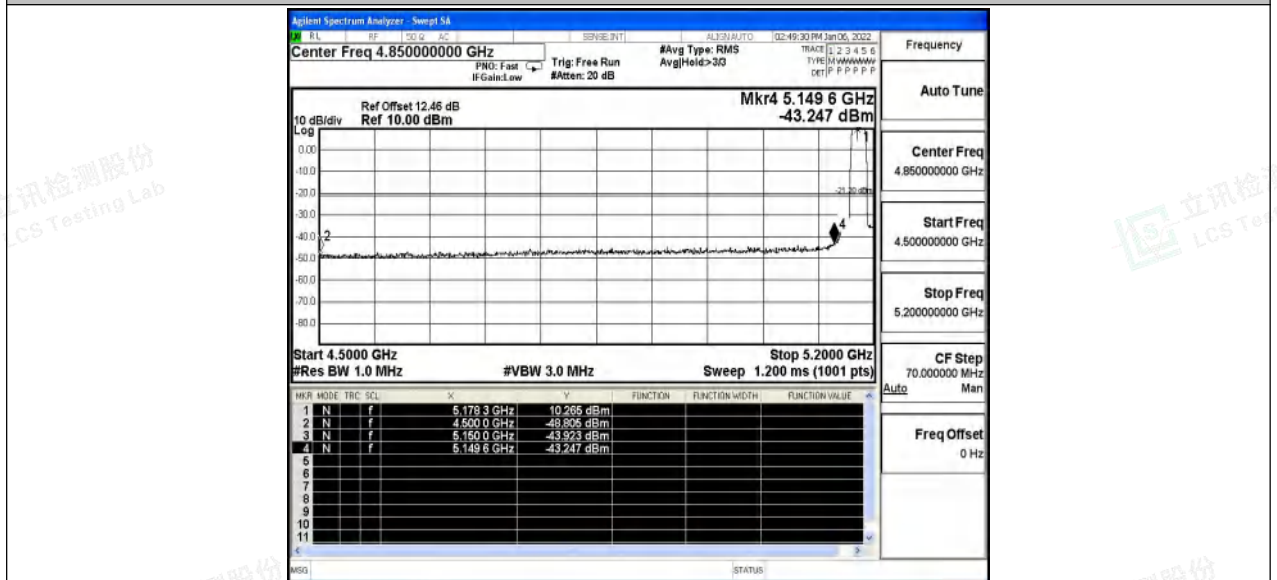
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11N20SISO_Ant1_Low_5180_Peak



11N20SISO_Ant1_High_5240_AV

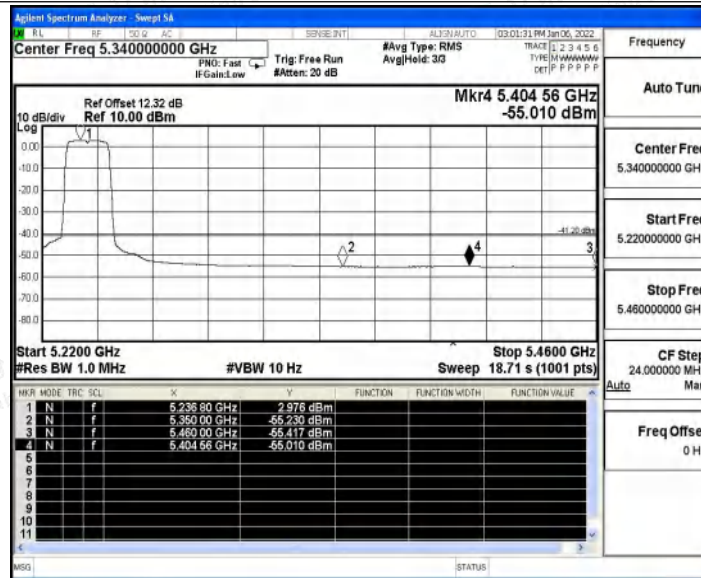


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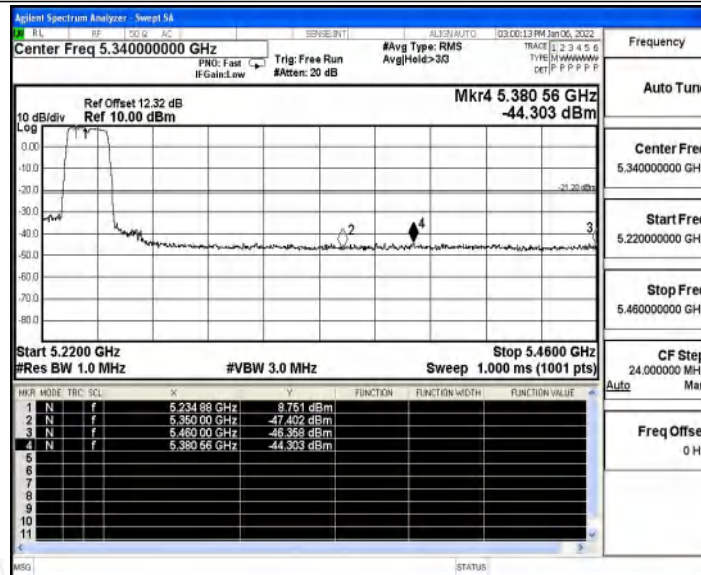
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant1_High_5240_Peak



11N40SISO_Ant1_Low_5190_AV

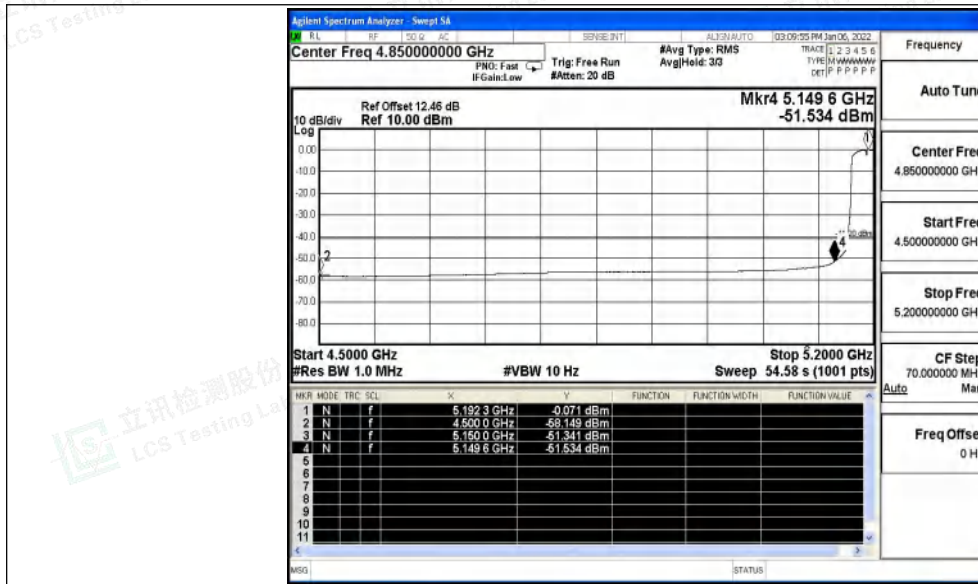


Shenzhen LCS Compliance Testing Laboratory Ltd.

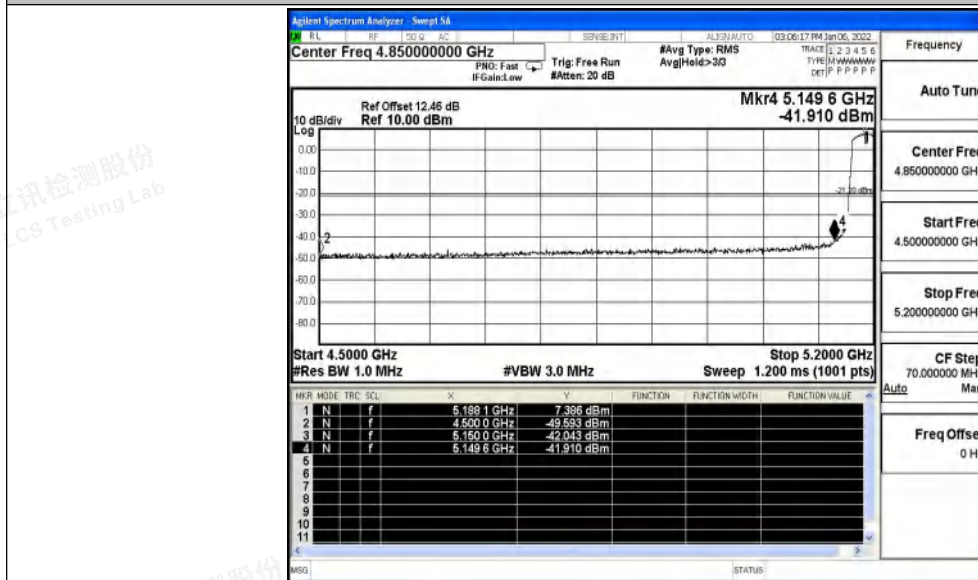
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N40SISO_Ant1_Low_5190_Peak



11N40SISO_Ant1_High_5230_AV

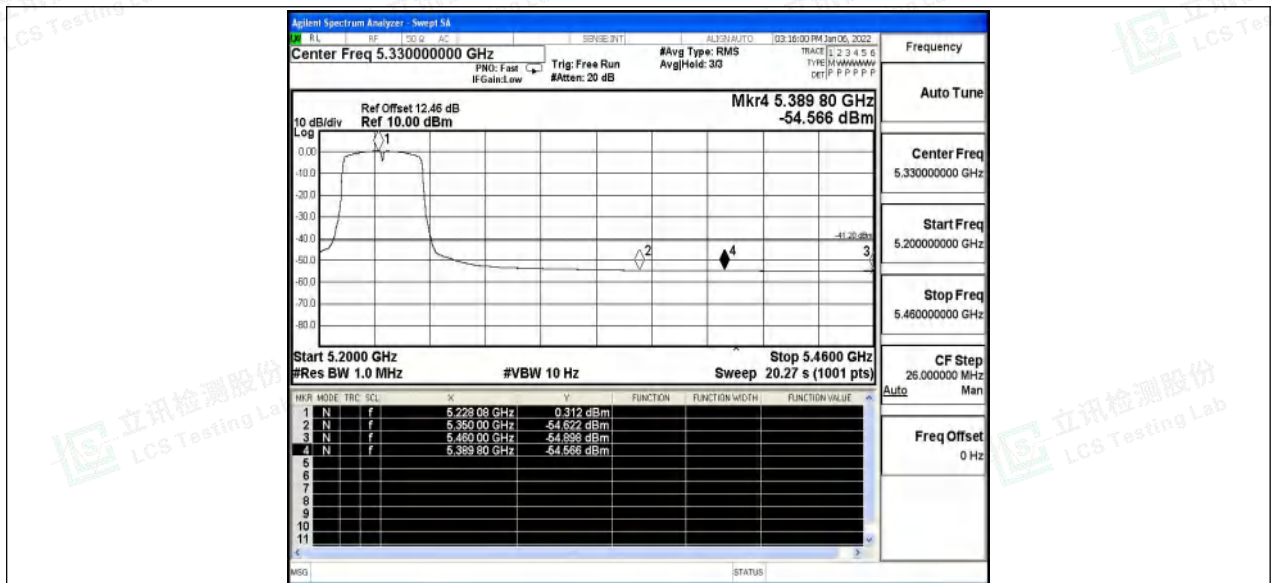


Shenzhen LCS Compliance Testing Laboratory Ltd.

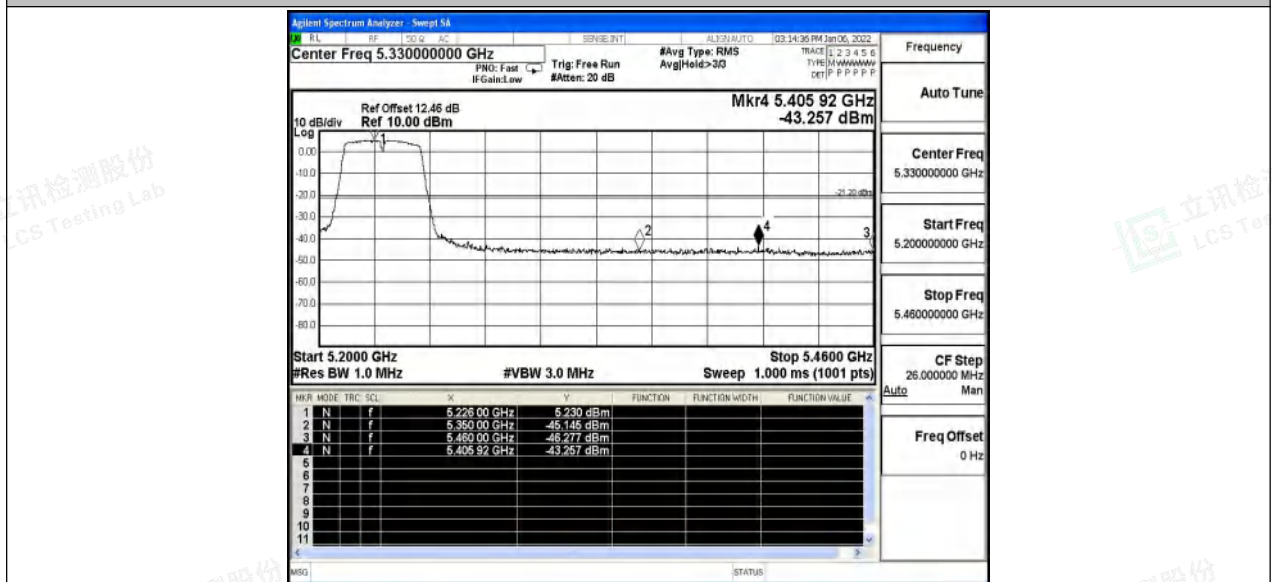
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11N40SISO_Ant1_High_5230_Peak



11AC20SISO_Ant1_Low_5180_AV

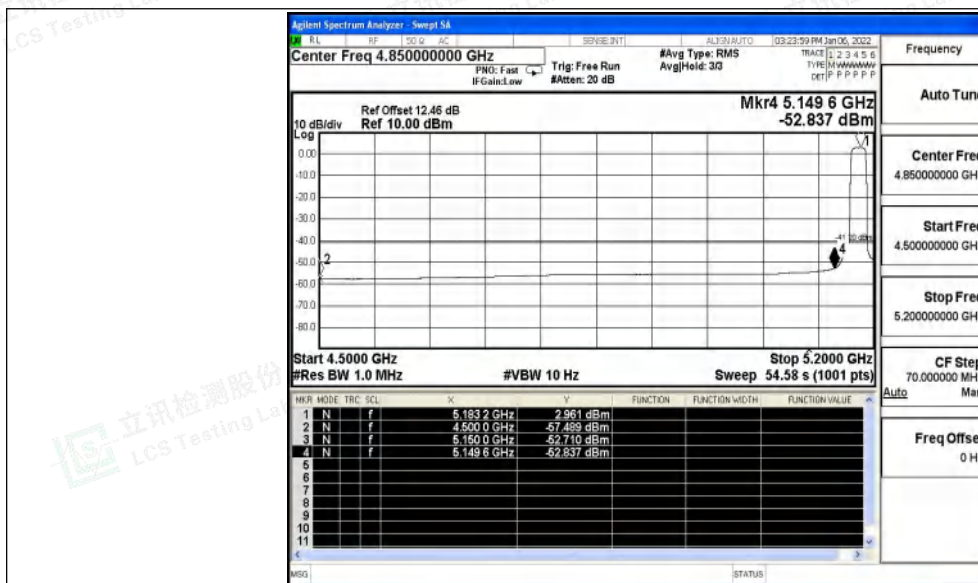


Shenzhen LCS Compliance Testing Laboratory Ltd.

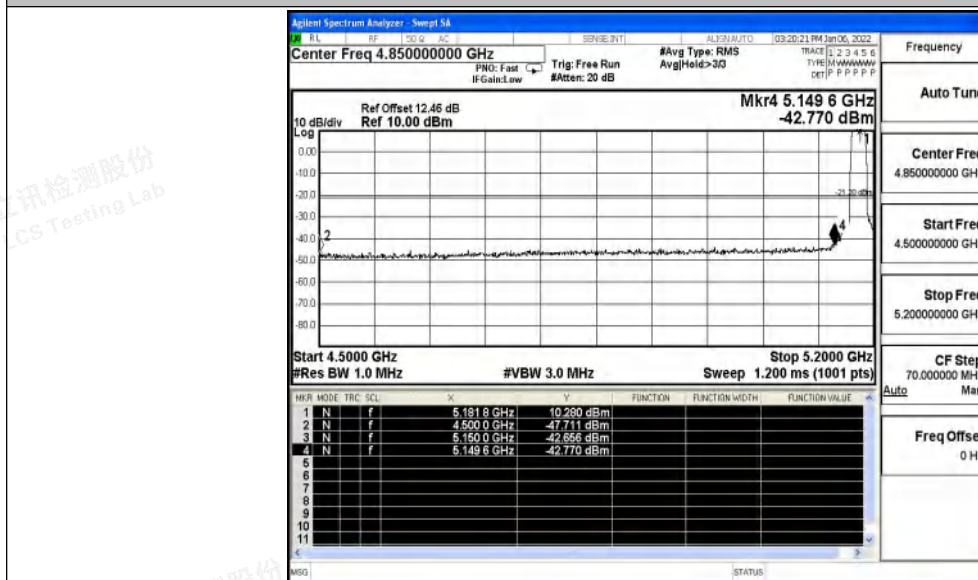
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11AC20SISO_Ant1_Low_5180_Peak



11AC20SISO_Ant1_High_5240_AV

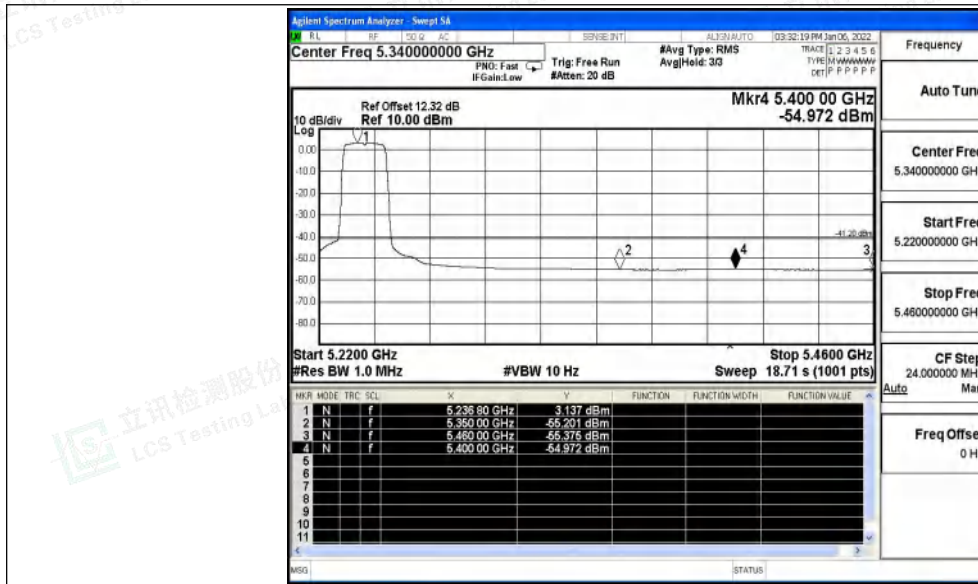


Shenzhen LCS Compliance Testing Laboratory Ltd.

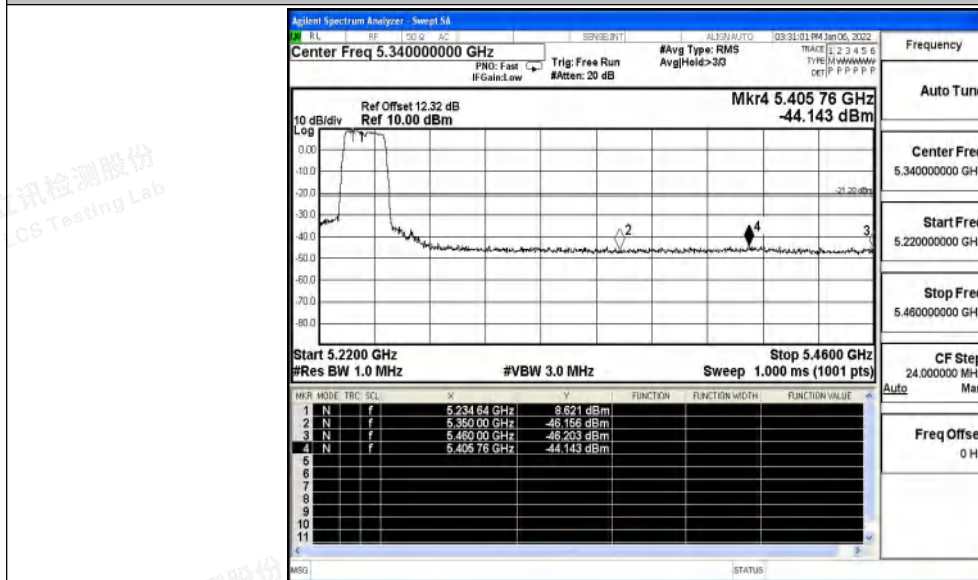
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11AC20SISO_Ant1_High_5240_Peak



11AC40SISO_Ant1_Low_5190_AV

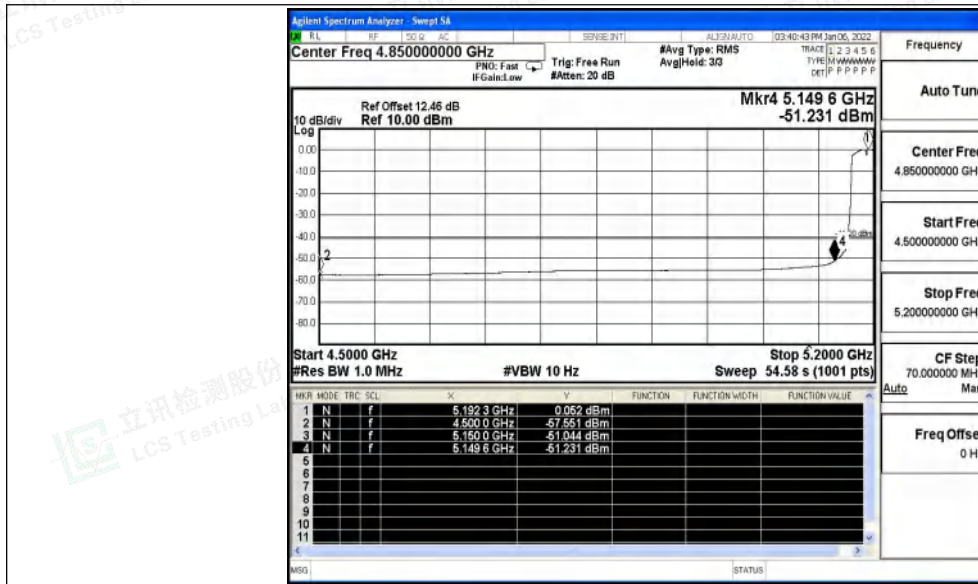


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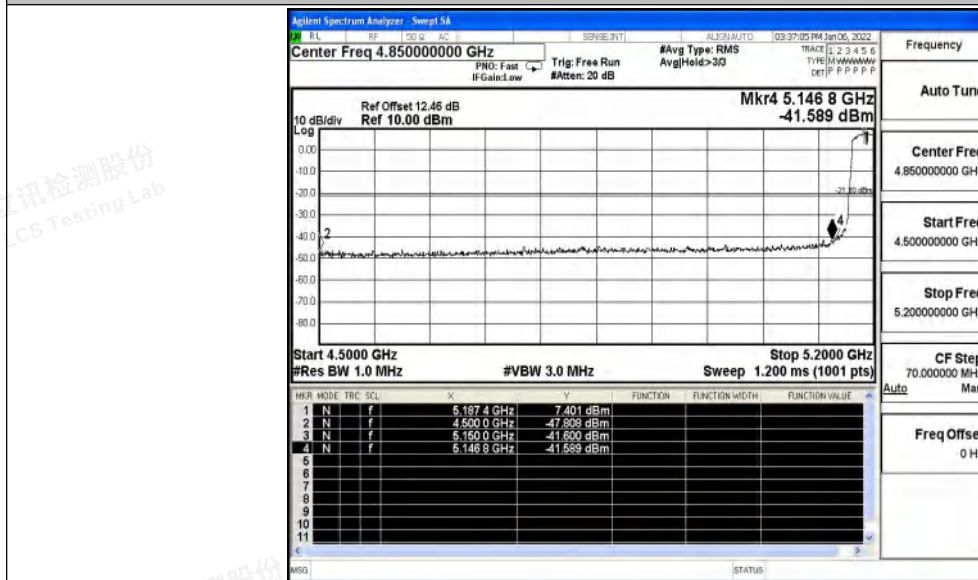
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC40SISO_Ant1_Low_5190_Peak



11AC40SISO_Ant1_High_5230_AV

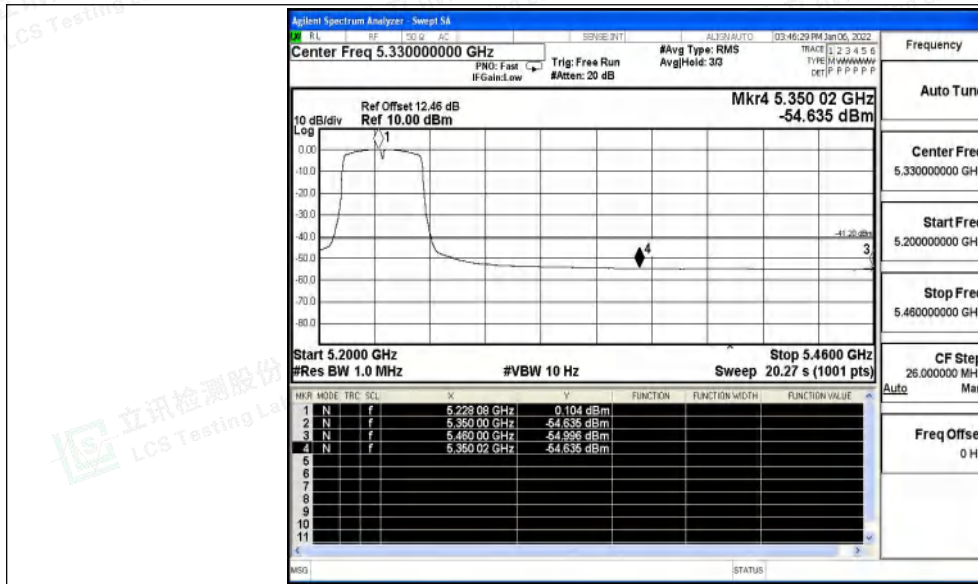


Shenzhen LCS Compliance Testing Laboratory Ltd.

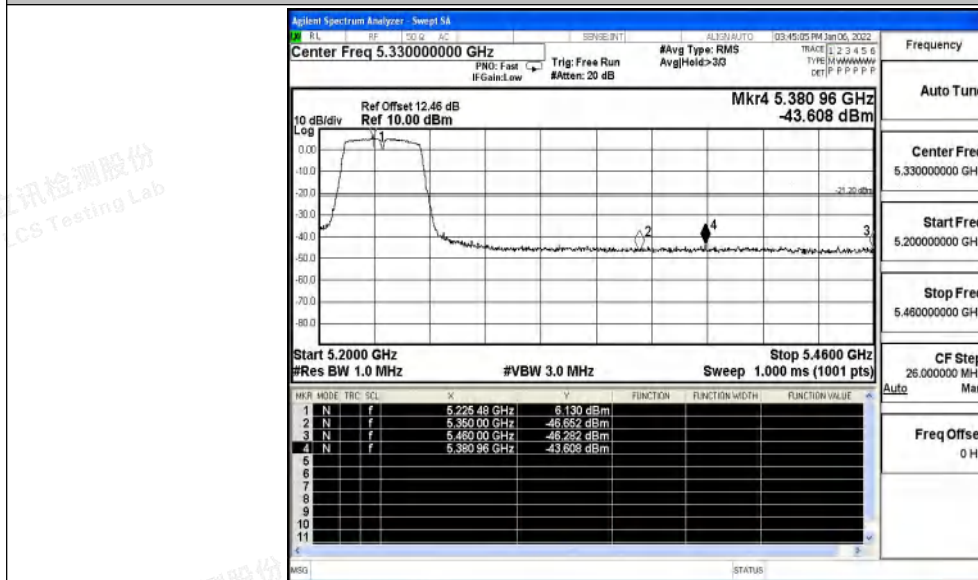
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC40SISO_Ant1_High_5230_Peak



11AC80SISO_Ant1_Low_5210_AV

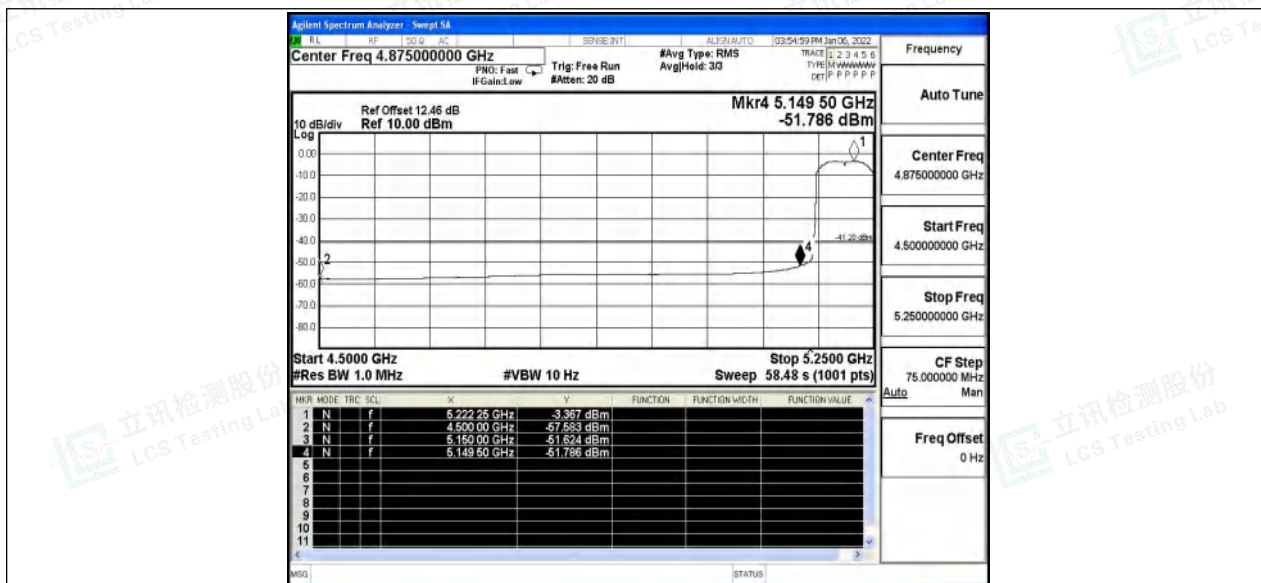


Shenzhen LCS Compliance Testing Laboratory Ltd.

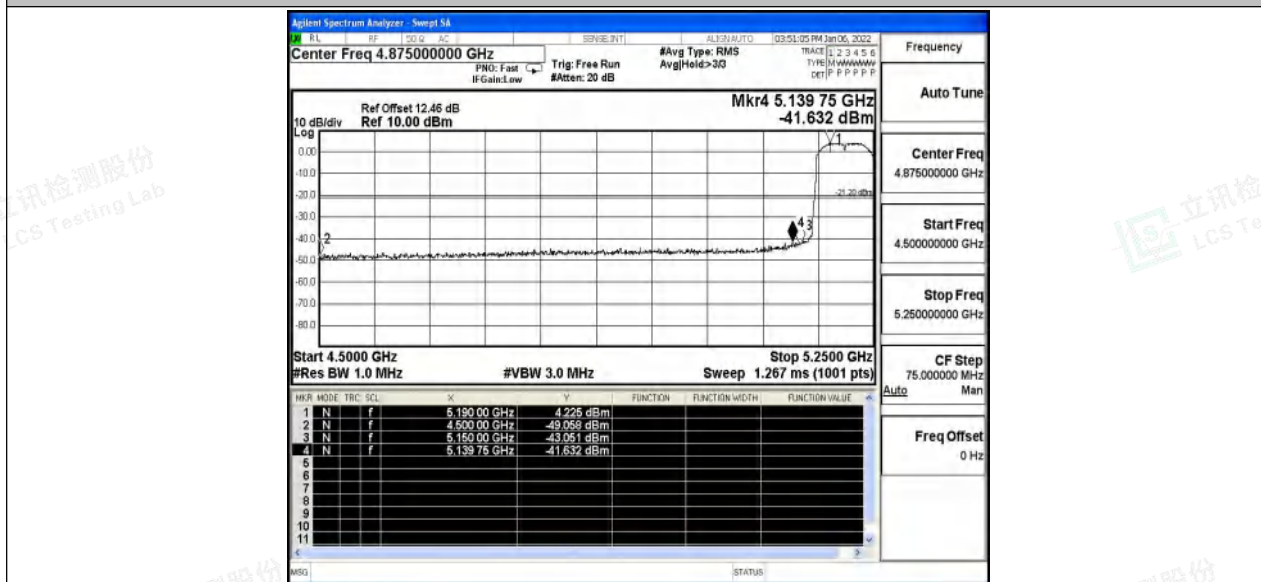
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC80SISO_Ant1_Low_5210_Peak



11AC80SISO_Ant1_High_5210_AV

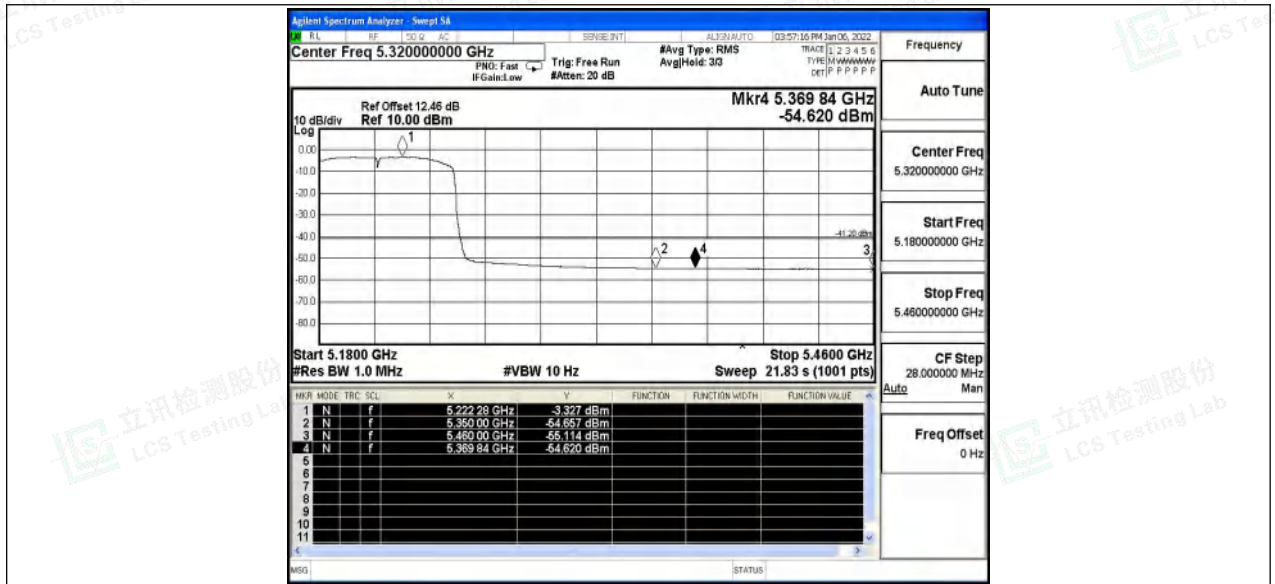


Shenzhen LCS Compliance Testing Laboratory Ltd.

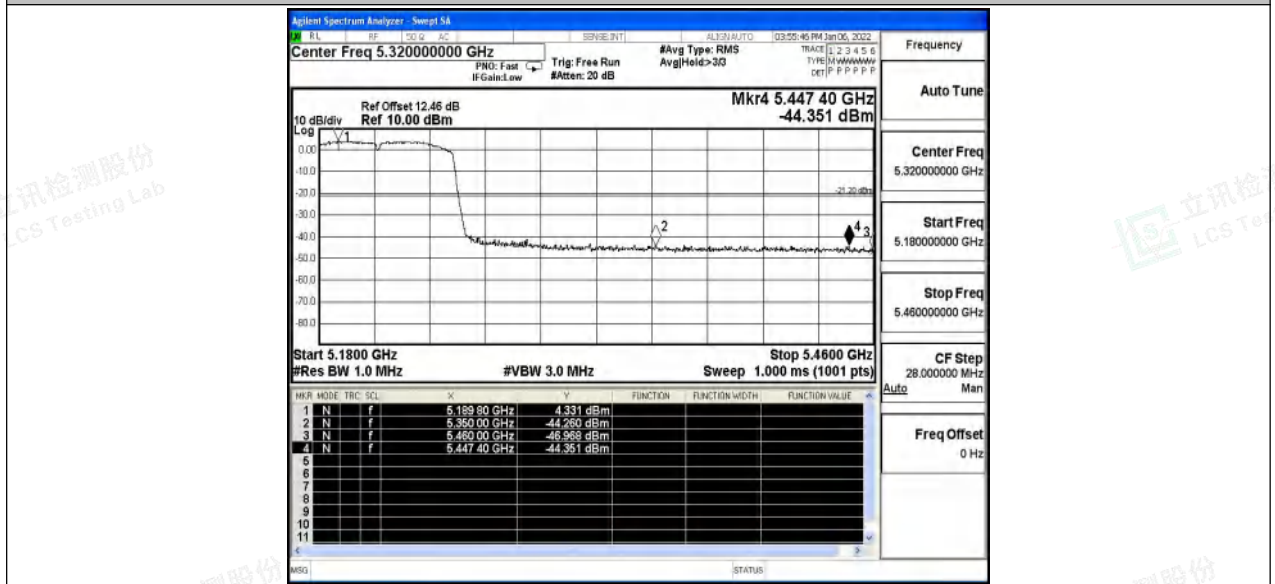
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11AC80SISO_Ant1_High_5210_Peak



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D.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SI SO	Ant0	5180	NV	NT	0	0	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	0	0	20	PASS
		5220	NV	NT	0	0	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	0	0	20	PASS
		5240	NV	NT	-20000	-3.816794	20	PASS
			LV	NT	-20000	-3.816794	20	PASS
			HV	NT	-20000	-3.816794	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SI SO	Ant0	5180	NV	-30	0	0	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	0	0	20	PASS
			NV	0	0	0	20	PASS
			NV	10	0	0	20	PASS
			NV	20	0	0	20	PASS
			NV	30	0	0	20	PASS
			NV	40	0	0	20	PASS
			NV	50	0	0	20	PASS
		5220	NV	-30	0	0	20	PASS
			NV	-20	-20000	-3.831418	20	PASS
			NV	-10	-20000	-3.831418	20	PASS
			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	-20000	-3.831418	20	PASS
			NV	50	-20000	-3.831418	20	PASS
		5240	NV	-30	-20000	-3.816794	20	PASS



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			NV	-20	-20000	-3.816794	20	PASS
			NV	-10	-20000	-3.816794	20	PASS
			NV	0	-20000	-3.816794	20	PASS
			NV	10	-20000	-3.816794	20	PASS
			NV	20	-20000	-3.816794	20	PASS
			NV	30	-20000	-3.816794	20	PASS
			NV	40	-20000	-3.816794	20	PASS
			NV	50	-20000	-3.816794	20	PASS

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5240	NV	NT	-20000	-3.816794	20	PASS
			LV	NT	-20000	-3.816794	20	PASS
			HV	NT	-20000	-3.816794	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5240	NV	-30	-20000	-3.816794	20	PASS
			NV	-20	-20000	-3.816794	20	PASS
			NV	-10	-20000	-3.816794	20	PASS
			NV	0	-20000	-3.816794	20	PASS



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D.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant0	5180	27.00	27.00	100.00	---	---
		5220	27.00	27.00	100.00	---	---
		5240	27.00	27.00	100.00	---	---
11N20SISO	Ant0	5180	27.00	27.00	100.00	---	---
		5220	27.00	27.00	100.00	---	---
		5240	27.00	27.00	100.00	---	---
11N40SISO	Ant0	5190	27.00	27.00	100.00	---	---
		5230	27.00	27.00	100.00	---	---
11AC20SISO	Ant0	5180	27.00	27.00	100.00	---	---
		5220	27.00	27.00	100.00	---	---
		5240	27.00	27.00	100.00	---	---
11AC40SISO	Ant0	5190	27.00	27.00	100.00	---	---
		5230	27.00	27.00	100.00	---	---
11AC80SISO	Ant0	5210	27.00	27.00	100.00	---	---



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

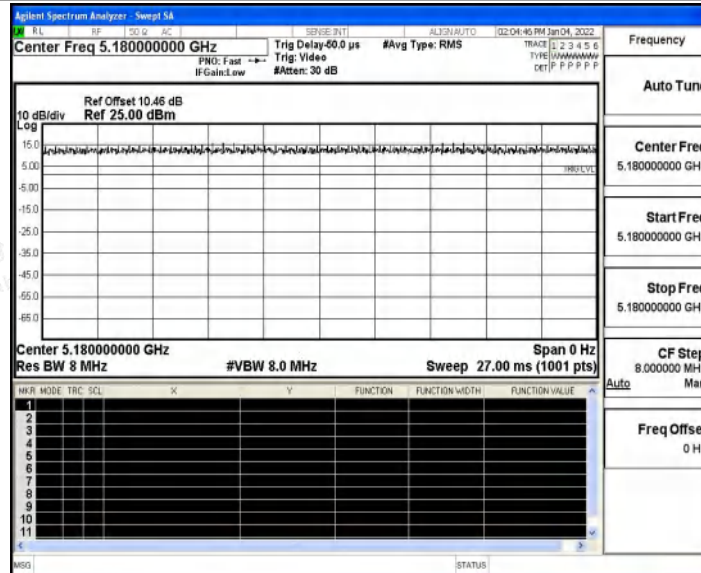
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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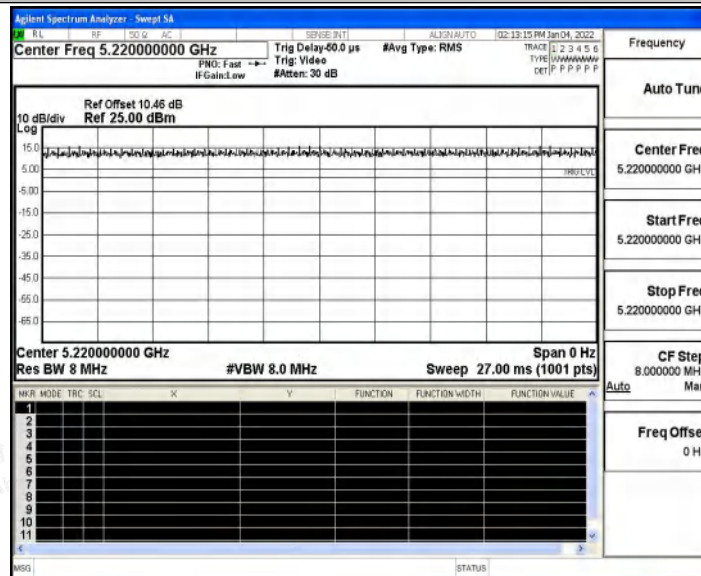


Test Graphs

11A_Ant0_5180



11A_Ant0_5220



11A_Ant0_5240

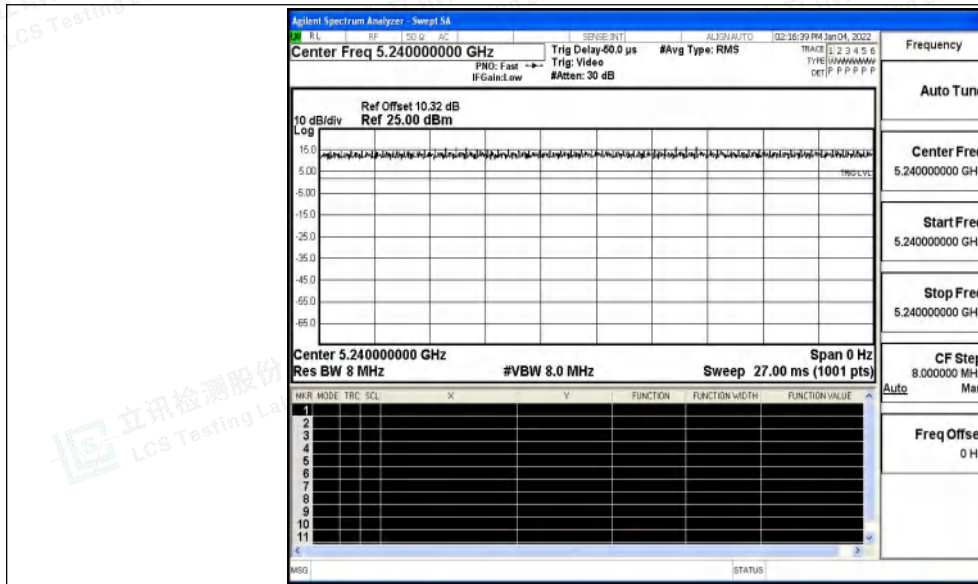


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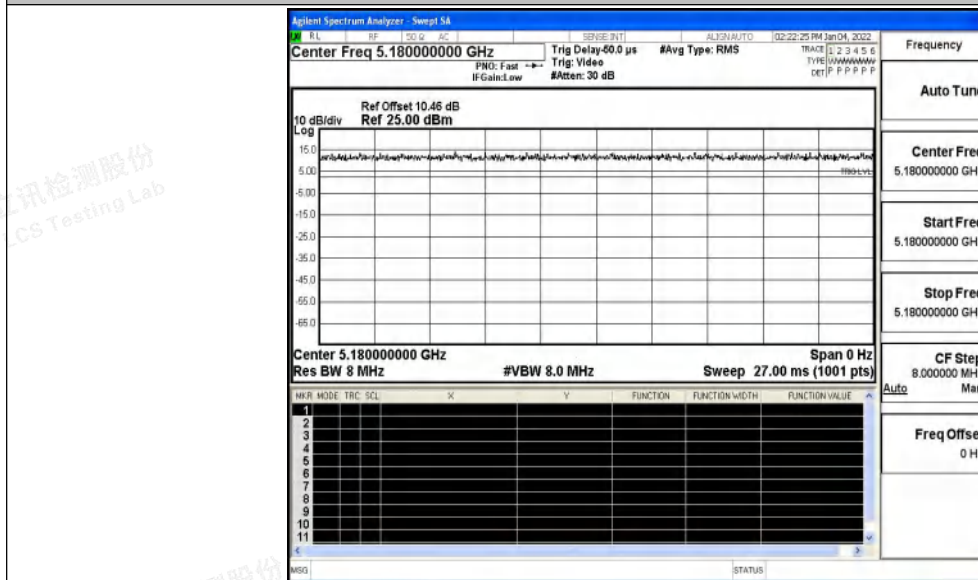
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant0_5180



11N20SISO_Ant0_5220

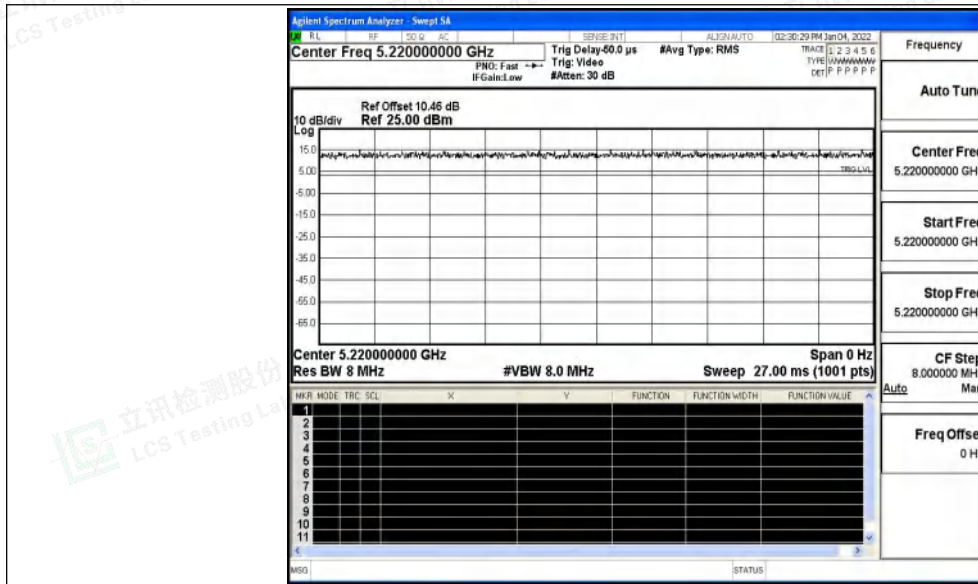


Shenzhen LCS Compliance Testing Laboratory Ltd.

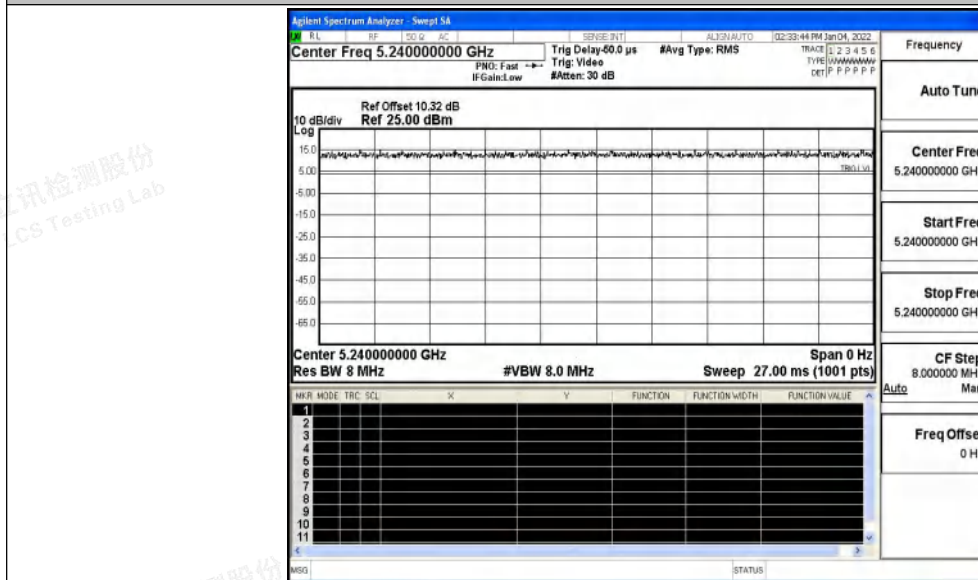
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11N20SISO_Ant0_5240



11N40SISO_Ant0_5190

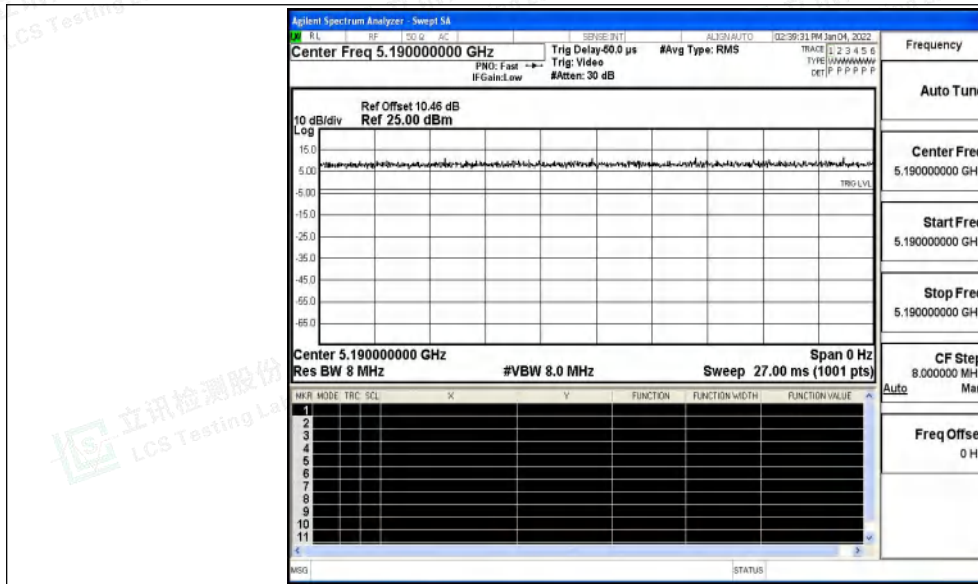


Shenzhen LCS Compliance Testing Laboratory Ltd.

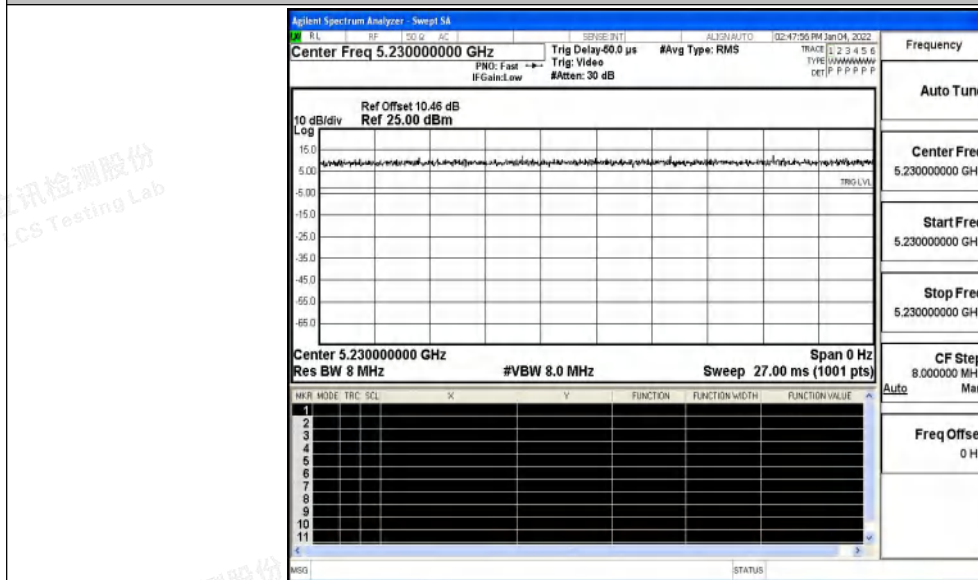
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11N40SISO_Ant0_5230



11AC20SISO_Ant0_5180

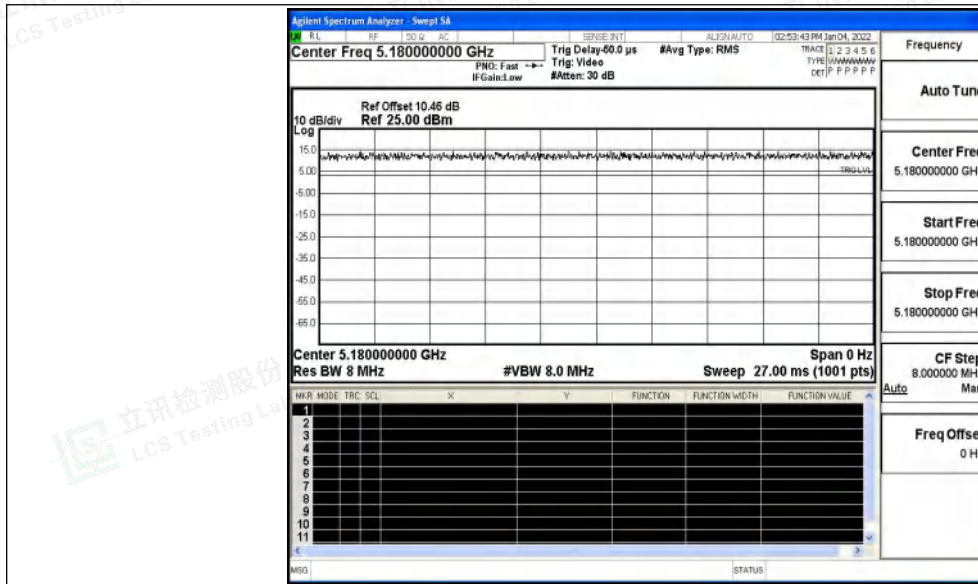


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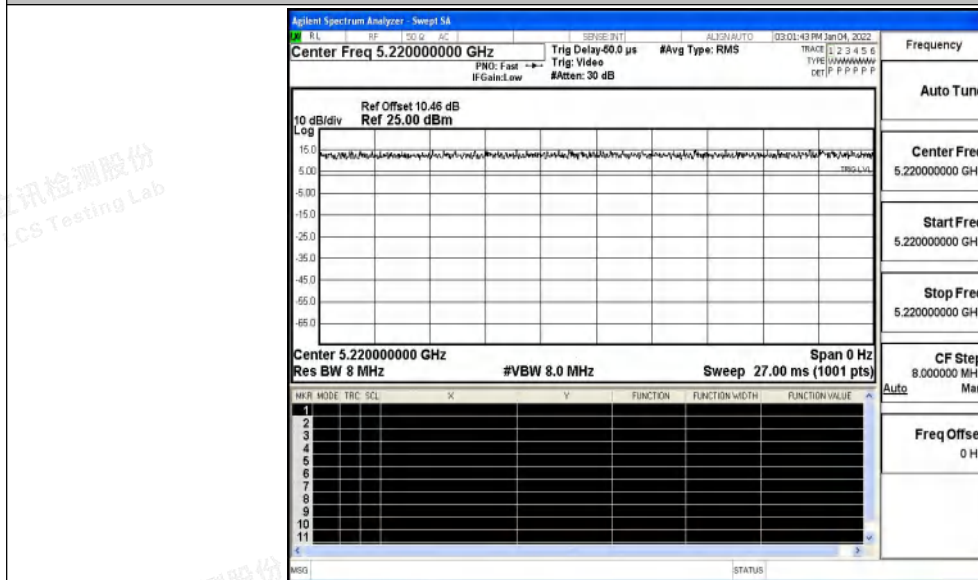
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11AC20SISO_Ant0_5220



11AC20SISO_Ant0_5240

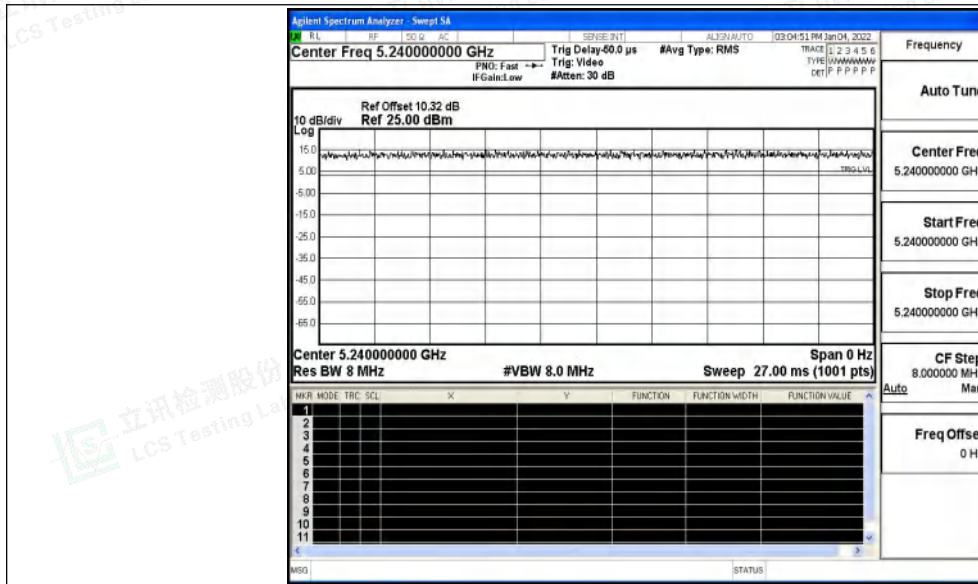


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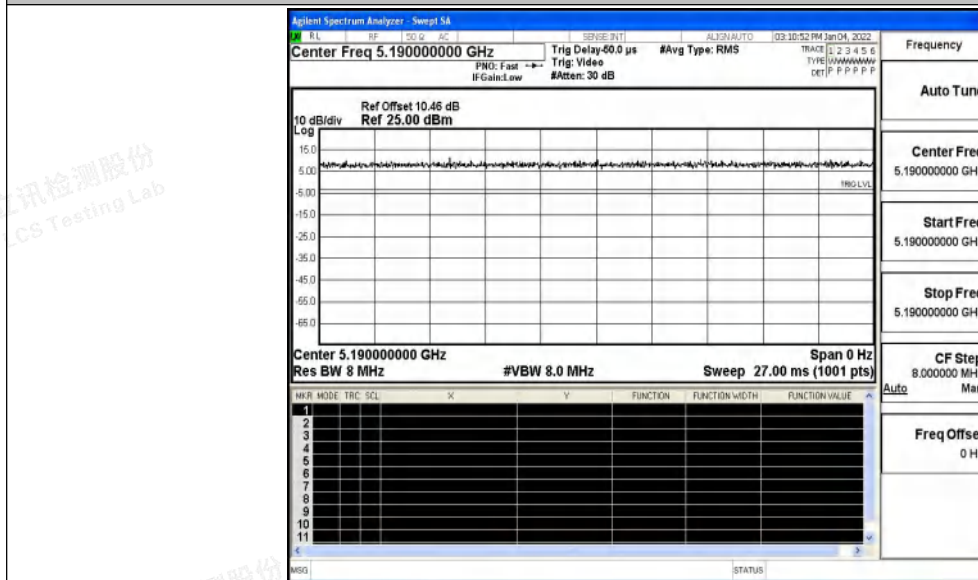
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11AC40SISO_Ant0_5190



11AC40SISO_Ant0_5230

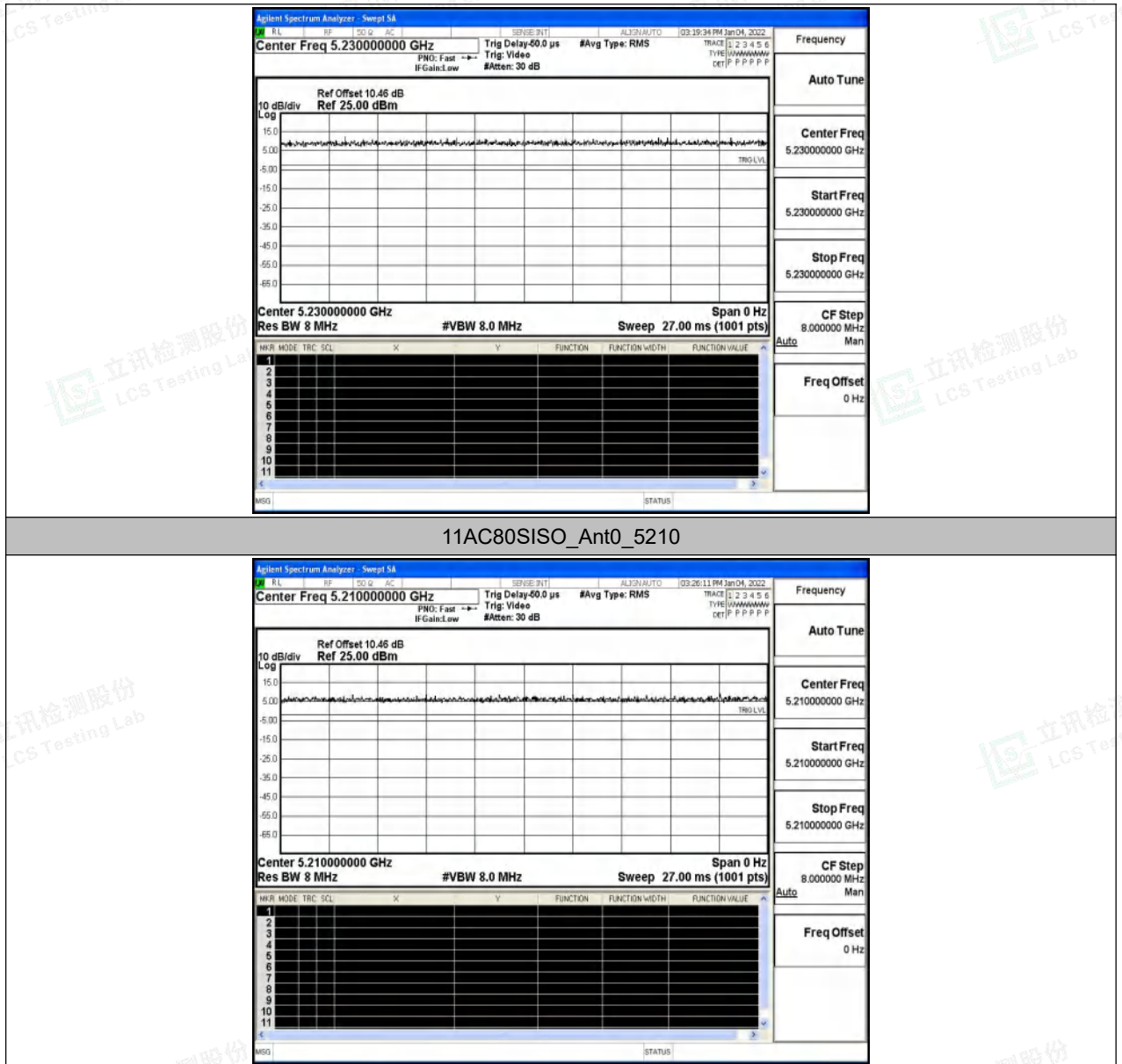


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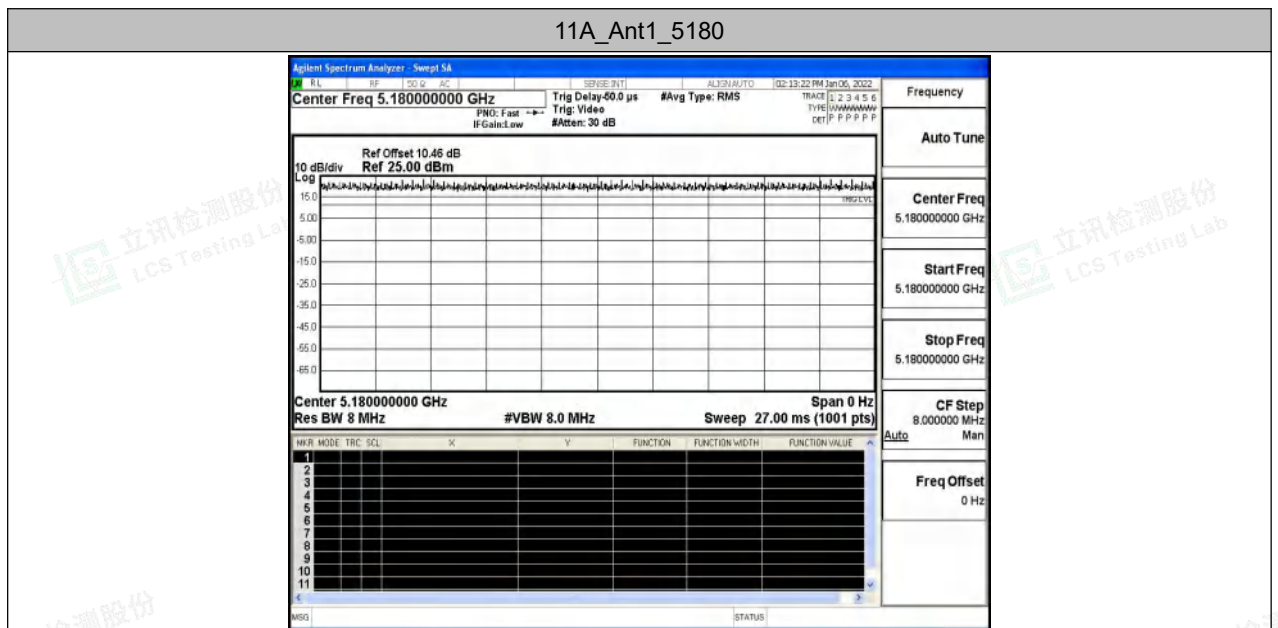
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	27.00	27.00	100.00	---	---
		5220	27.00	27.00	100.00	---	---
		5240	27.00	27.00	100.00	---	---
11N20SISO	Ant1	5180	27.00	27.00	100.00	---	---
		5220	27.00	27.00	100.00	---	---
		5240	27.00	27.00	100.00	---	---
11N40SISO	Ant1	5190	27.00	27.00	100.00	---	---
		5230	27.00	27.00	100.00	---	---
11AC20SISO	Ant1	5180	27.00	27.00	100.00	---	---
		5220	27.00	27.00	100.00	---	---
		5240	27.00	27.00	100.00	---	---
11AC40SISO	Ant1	5190	27.00	27.00	100.00	---	---
		5230	27.00	27.00	100.00	---	---
11AC80SISO	Ant1	5210	27.00	27.00	100.00	---	---

Test Graphs



Shenzhen LCS Compliance Testing Laboratory Ltd.

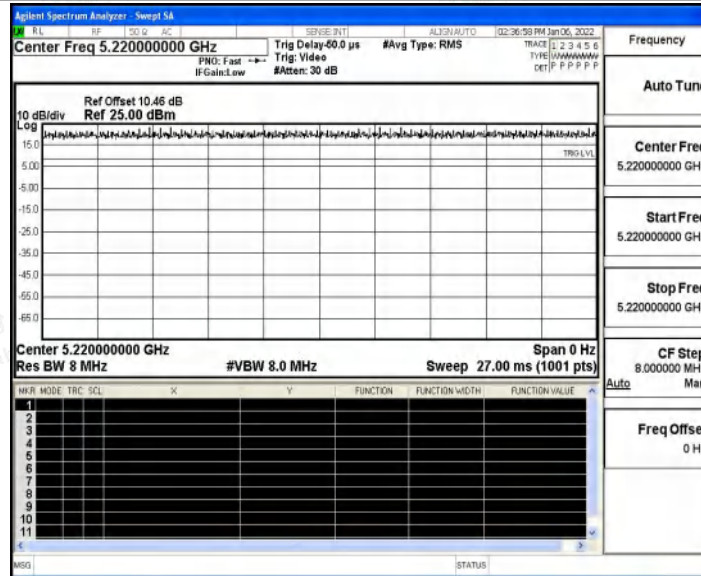
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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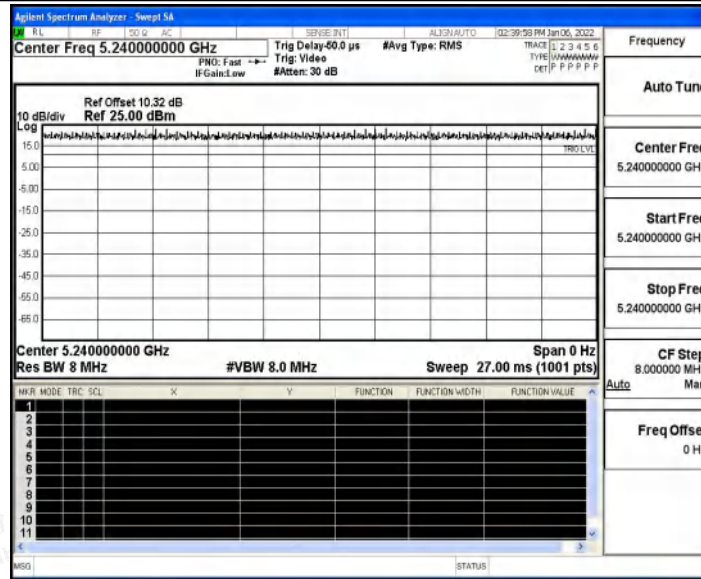
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11A_Ant1_5220



11A_Ant1_5240



11N20SISO_Ant1_5180

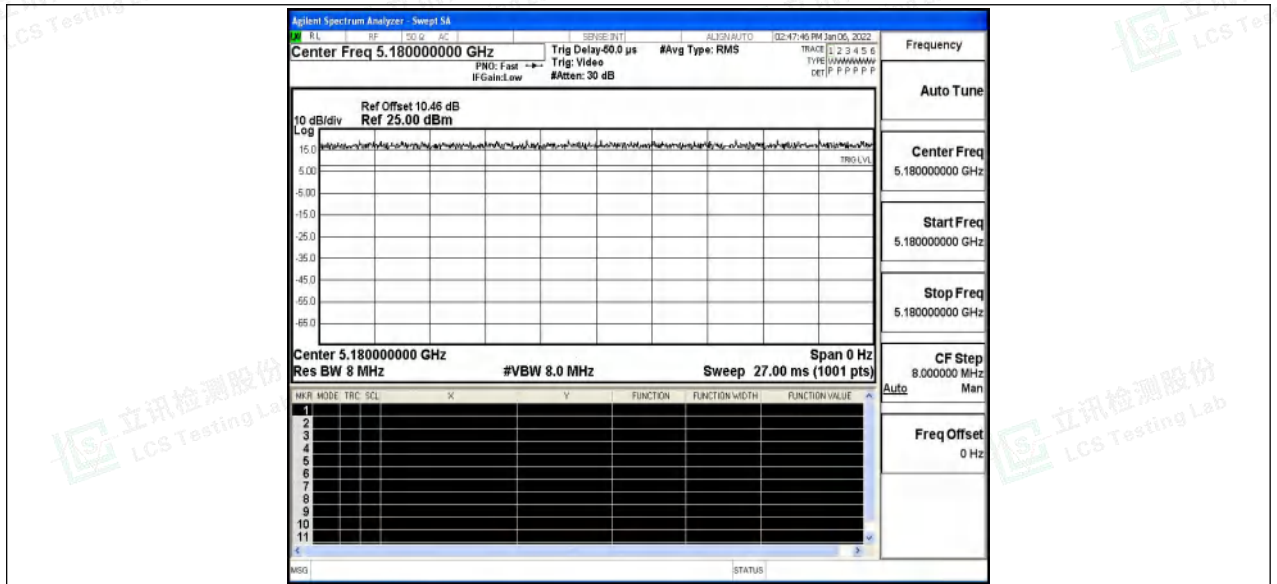


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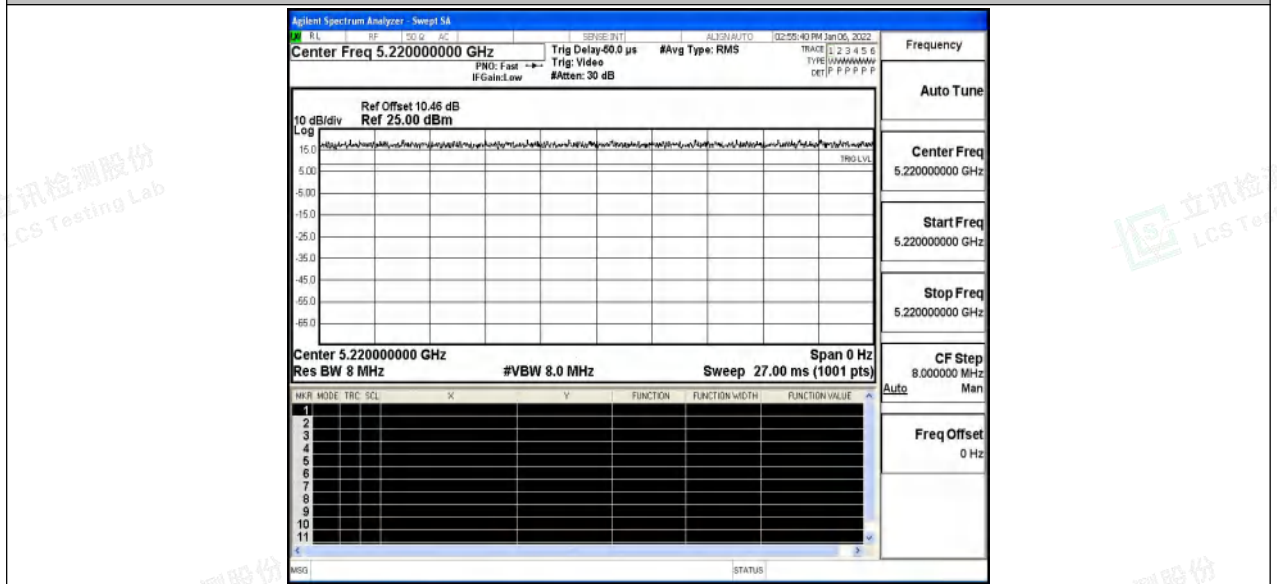
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11N20SISO_Ant1_5220



11N20SISO_Ant1_5240

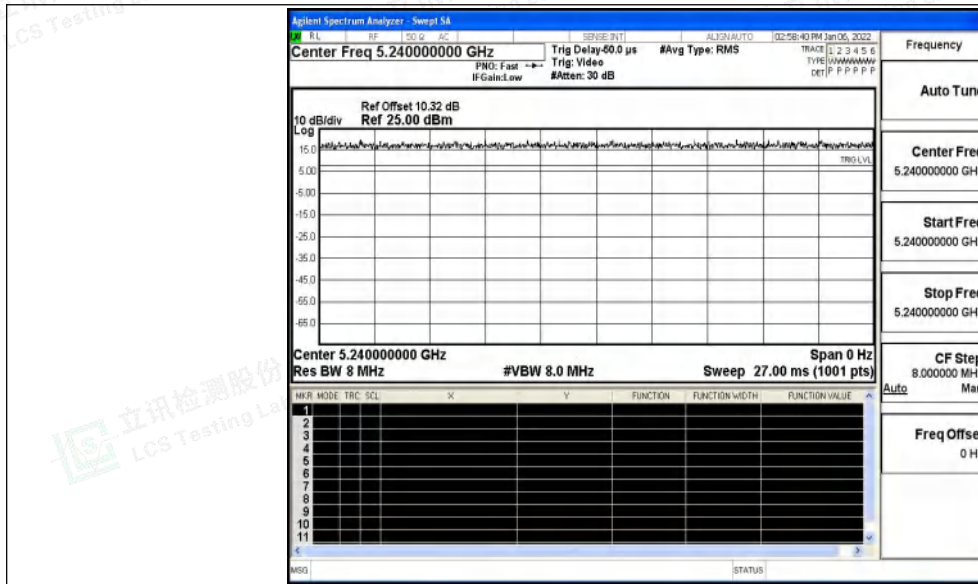


Shenzhen LCS Compliance Testing Laboratory Ltd.

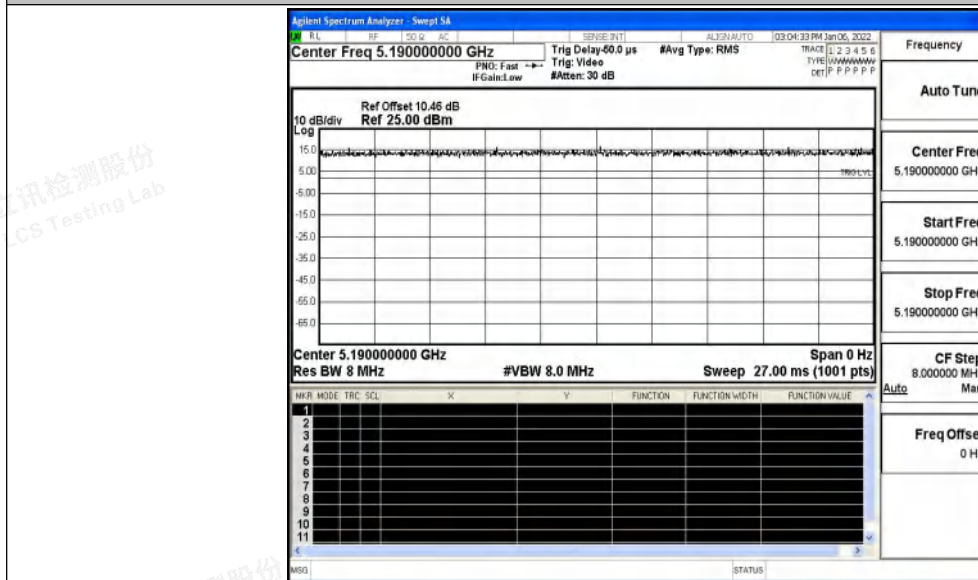
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11N40SISO_Ant1_5190



11N40SISO_Ant1_5230

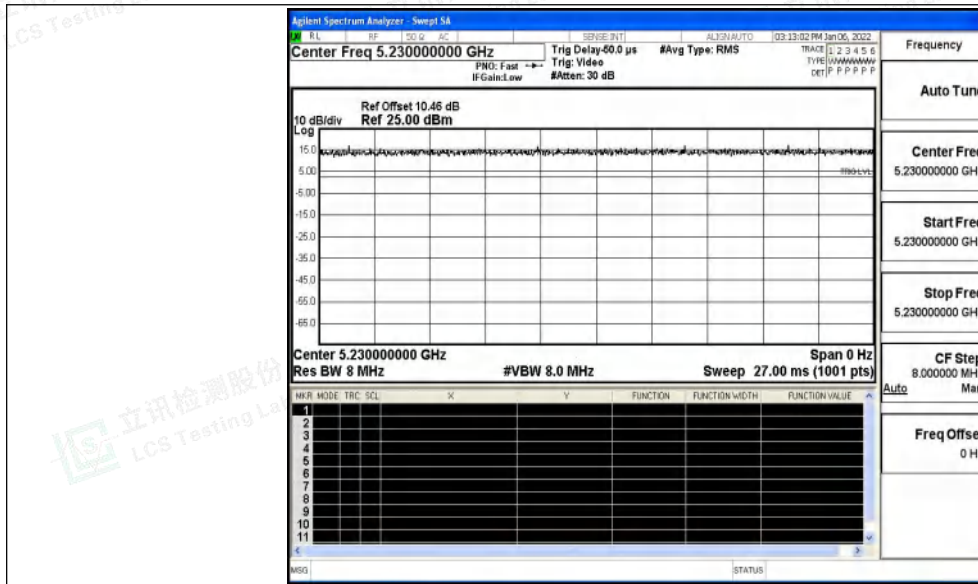


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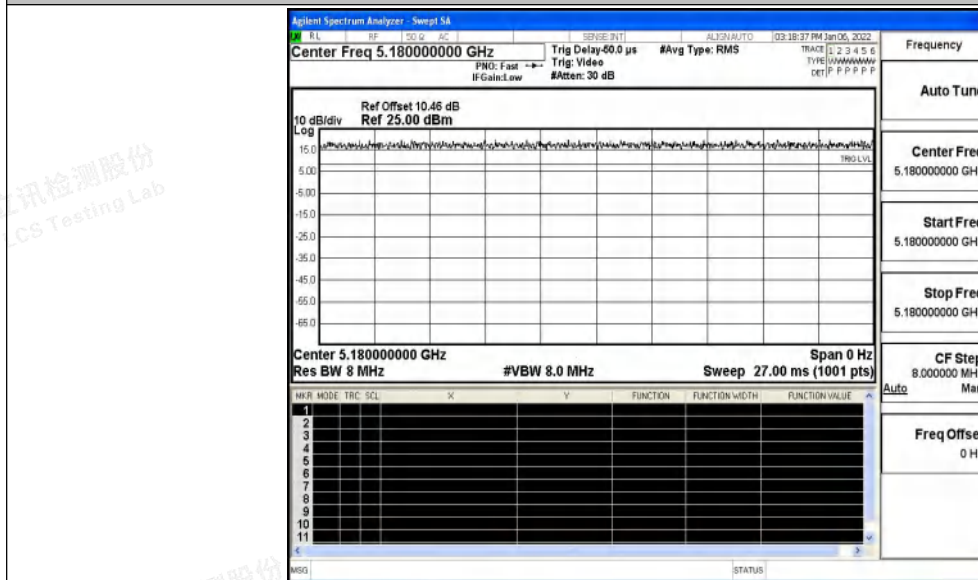
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5220

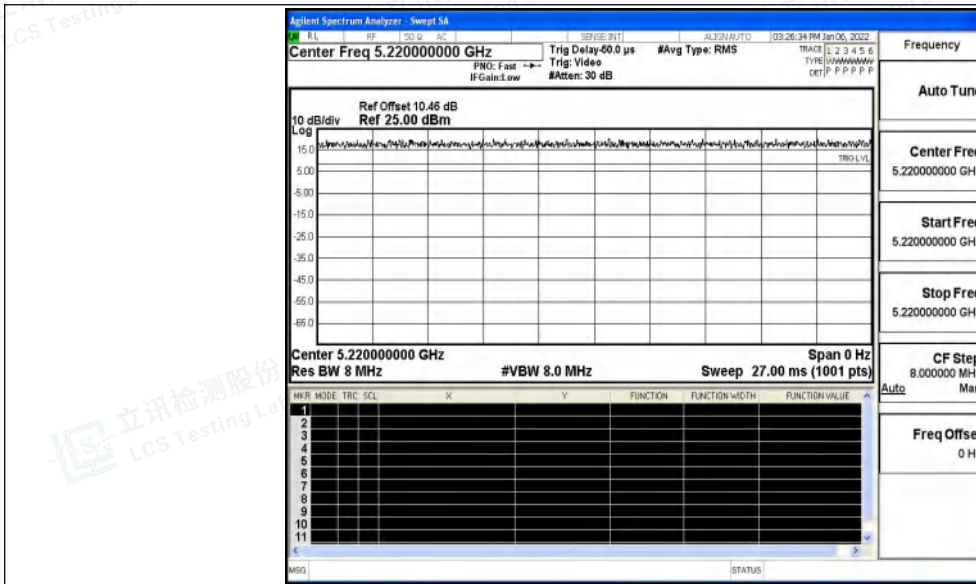


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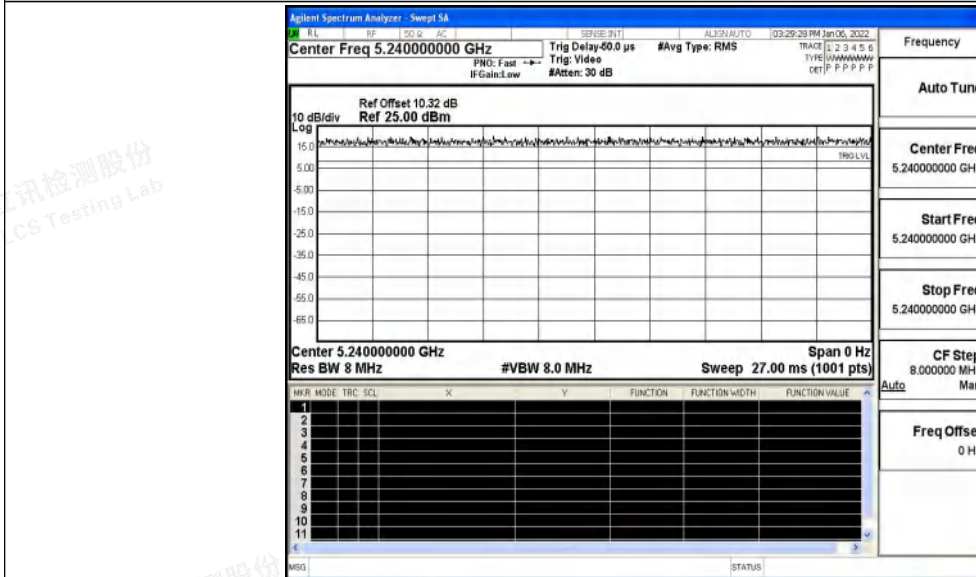
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11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190

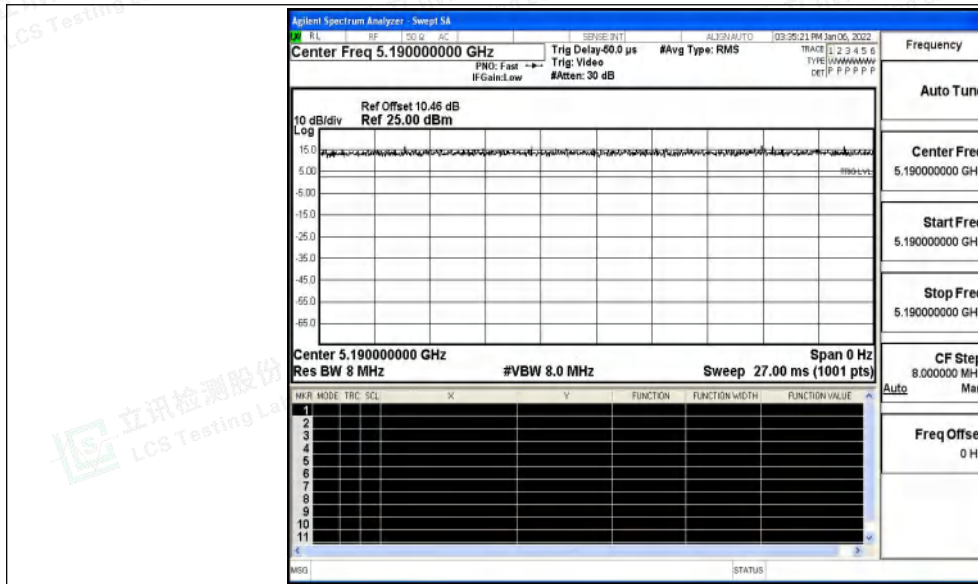


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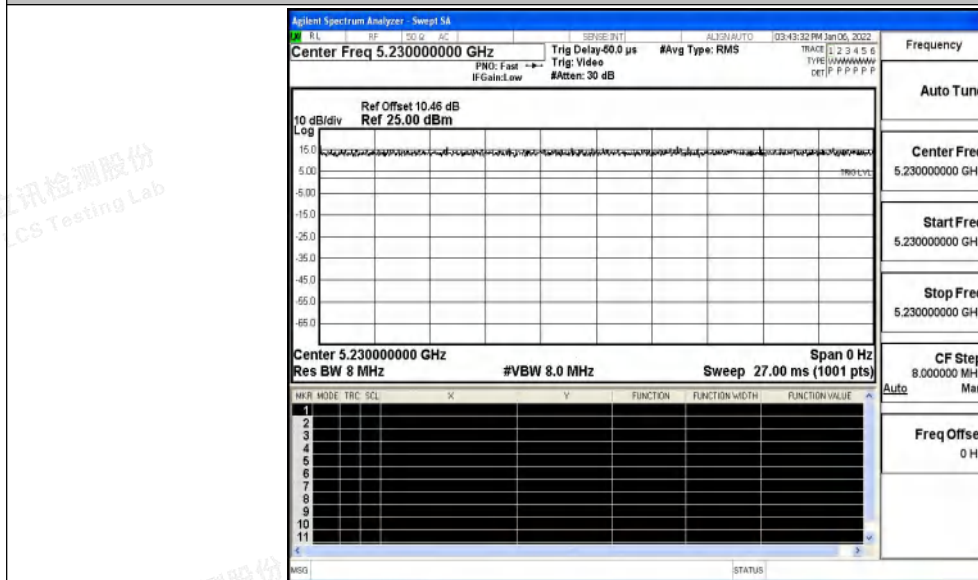
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

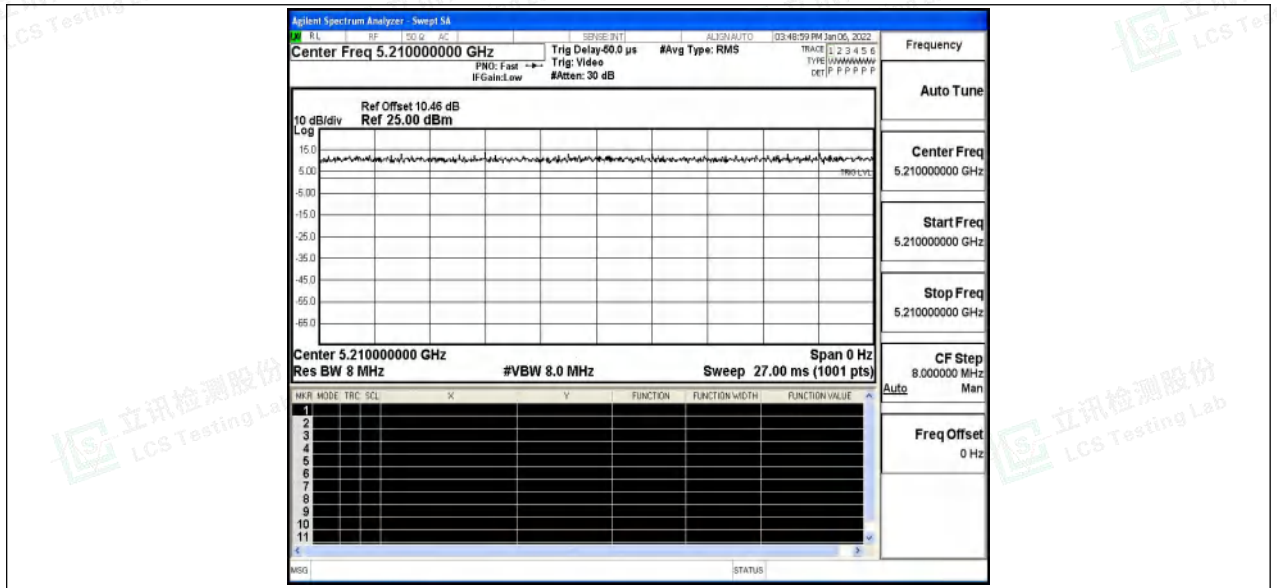


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