



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: NOTEBOOK

Test Model: H719

Environmental Conditions

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





D.1 Emission Bandwidth

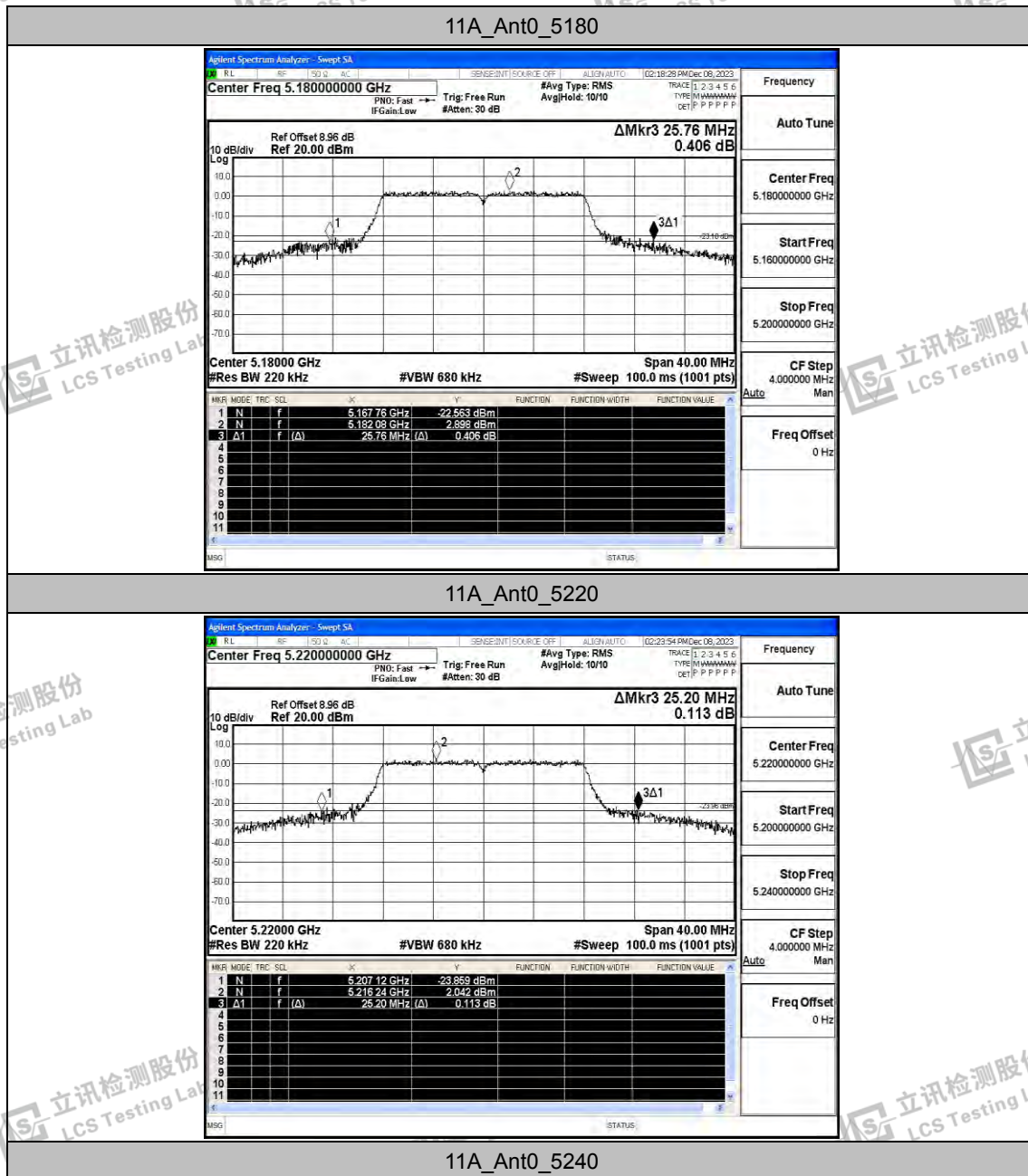
Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant0	5180	25.760	5167.760	5193.520	---	---
		5220	25.200	5207.120	5232.320	---	---
		5240	24.800	5227.160	5251.960	---	---
11N20SISO	Ant0	5180	27.200	5166.360	5193.560	---	---
		5220	30.240	5205.000	5235.240	---	---
		5240	29.040	5225.880	5254.920	---	---
11N40SISO	Ant0	5190	44.240	5168.640	5212.880	---	---
		5230	40.800	5209.760	5250.560	---	---
11AC20SISO	Ant0	5180	29.080	5166.240	5195.320	---	---
		5220	29.360	5205.000	5234.360	---	---
		5240	27.120	5227.040	5254.160	---	---
11AC40SISO	Ant0	5190	44.240	5168.800	5213.040	---	---
		5230	45.120	5208.640	5253.760	---	---
11AC80SISO	Ant0	5210	84.800	5166.480	5251.280	---	---





Test Graphs

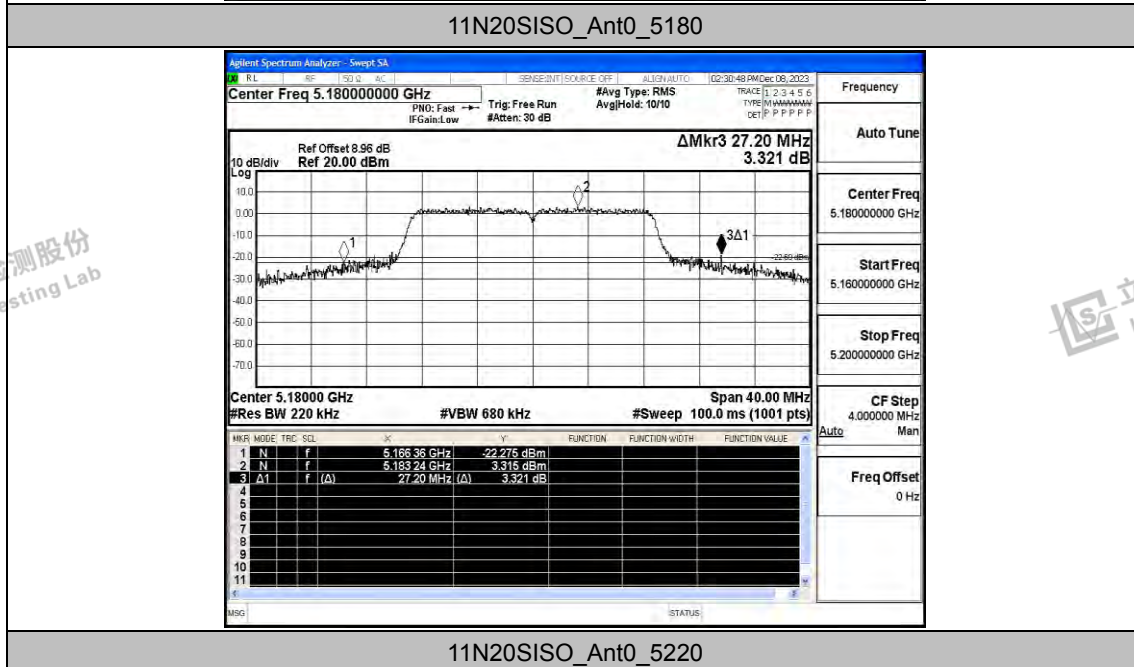
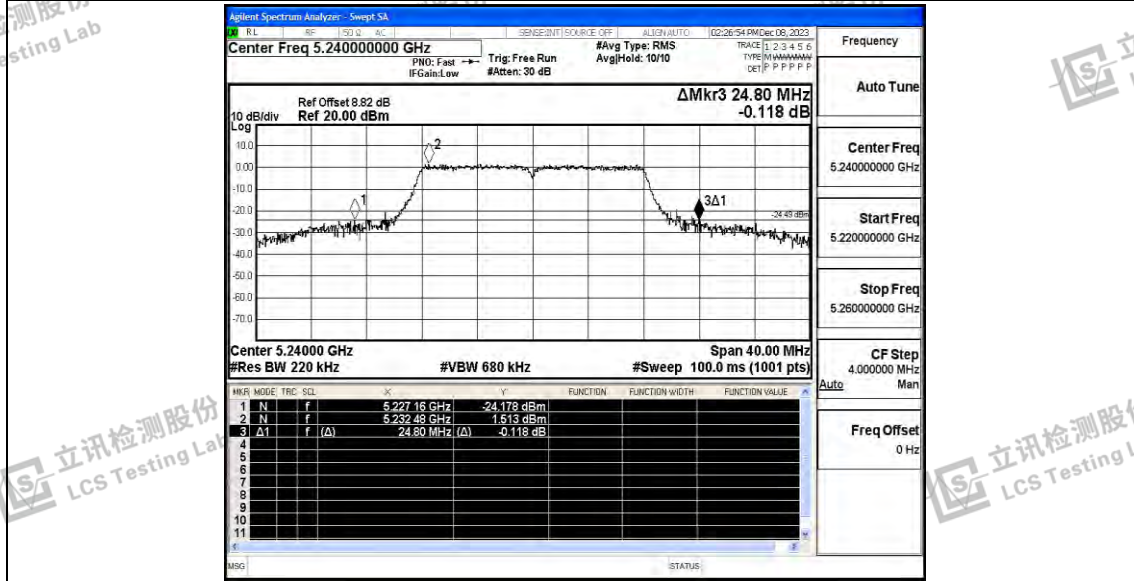


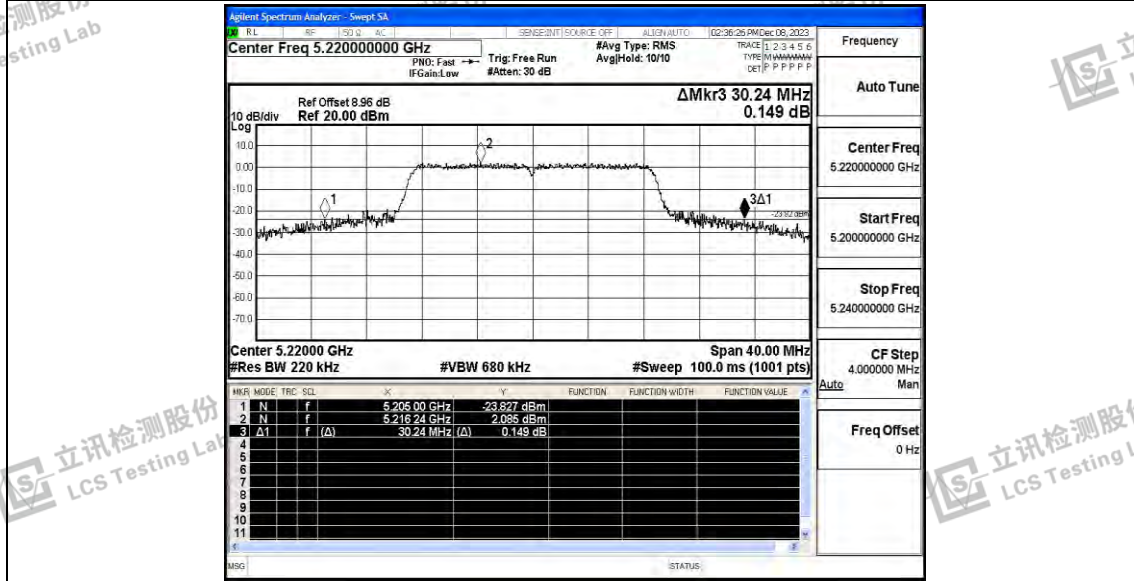
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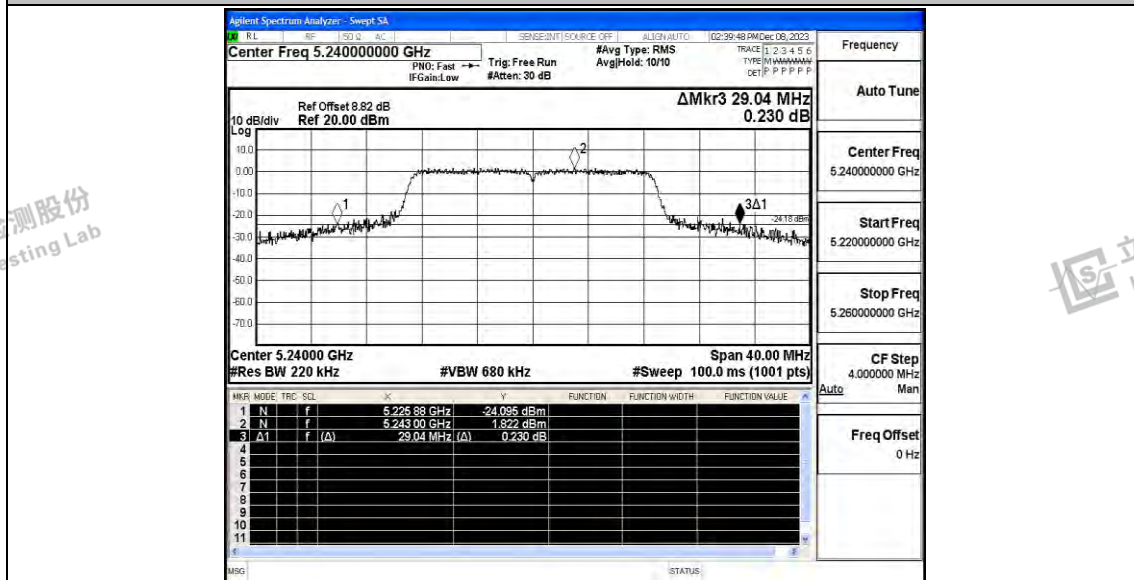
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



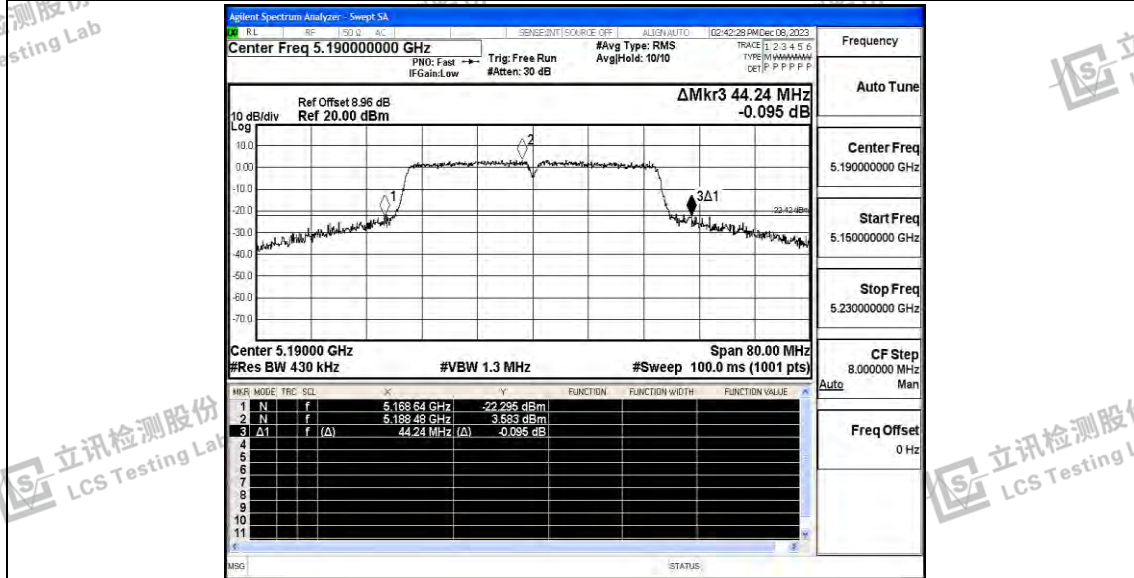


11N20SISO_Ant0_5240

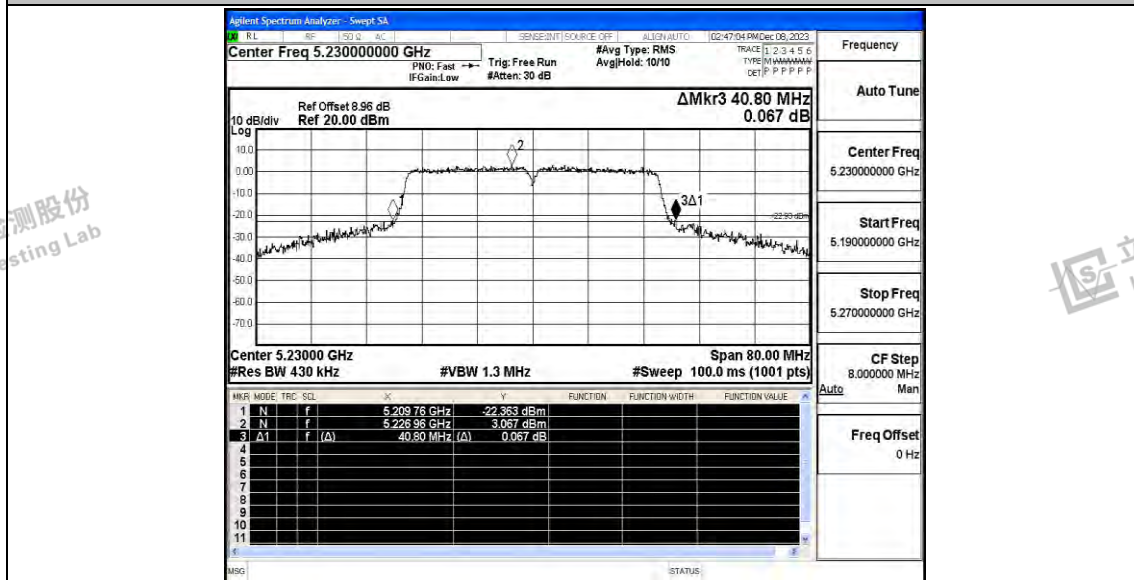


11N40SISO_Ant0_5190



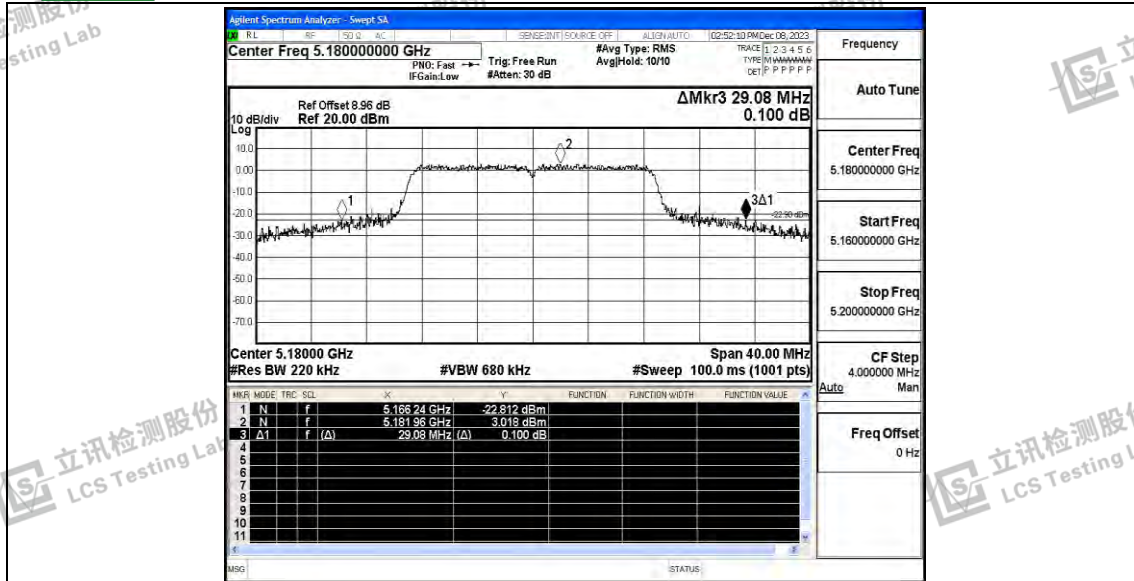


11N40SISO_Ant0_5230

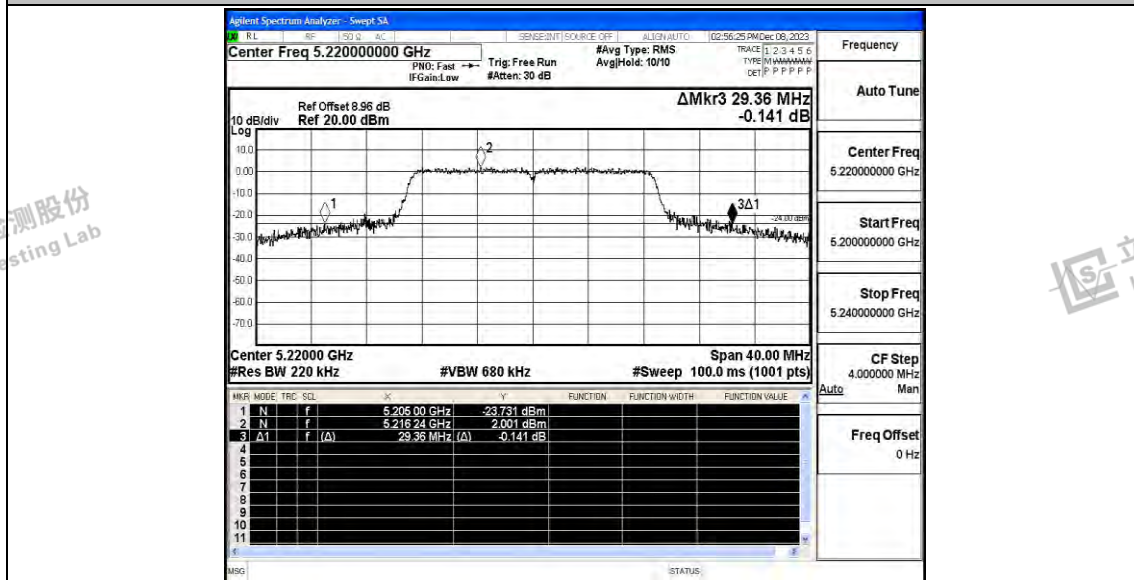


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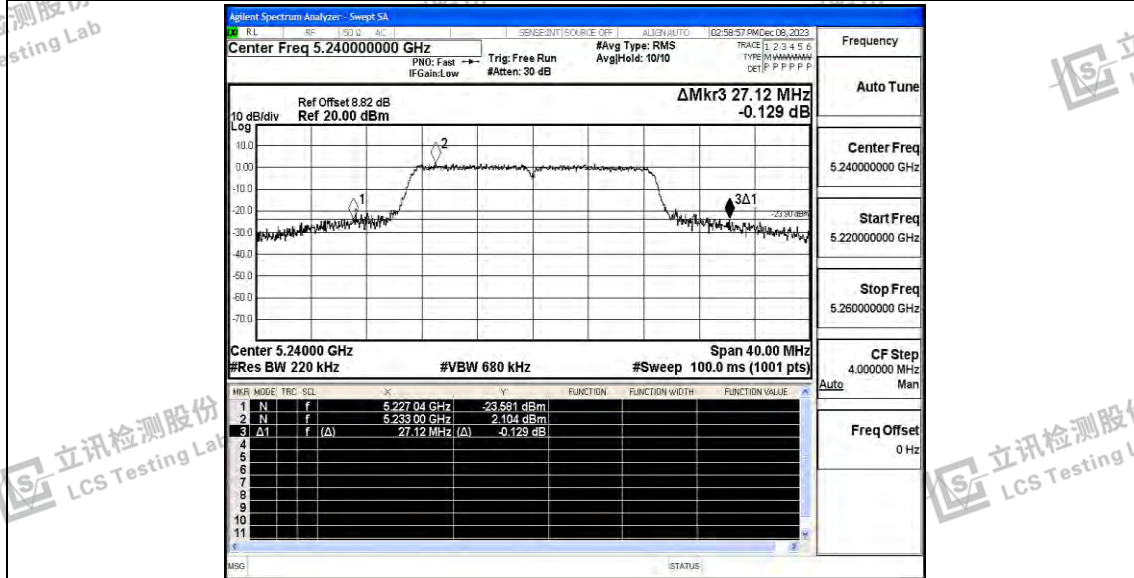


11AC20SISO_Ant0_5220

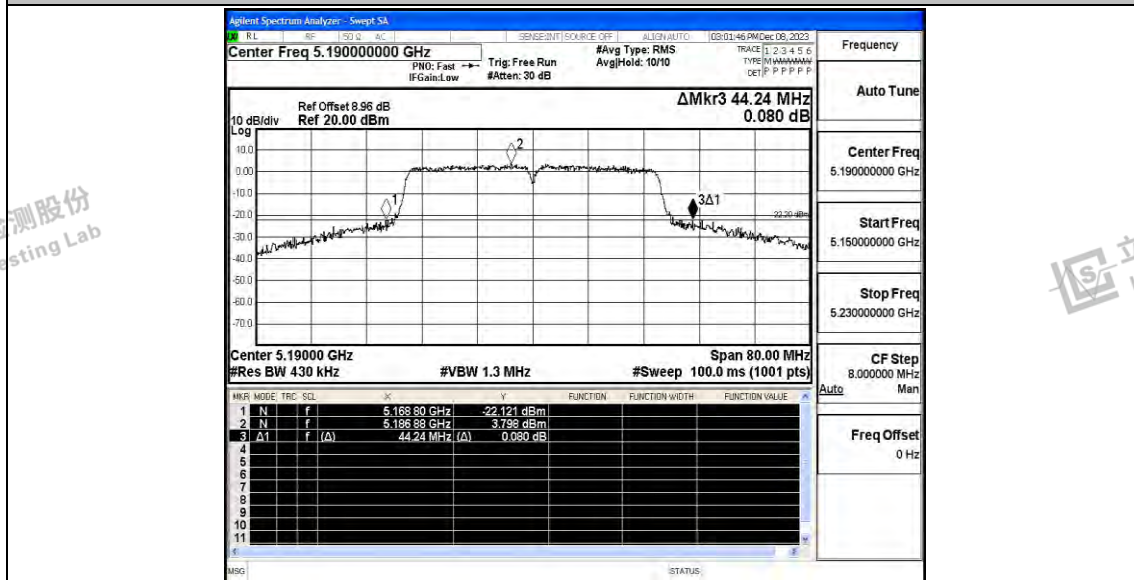


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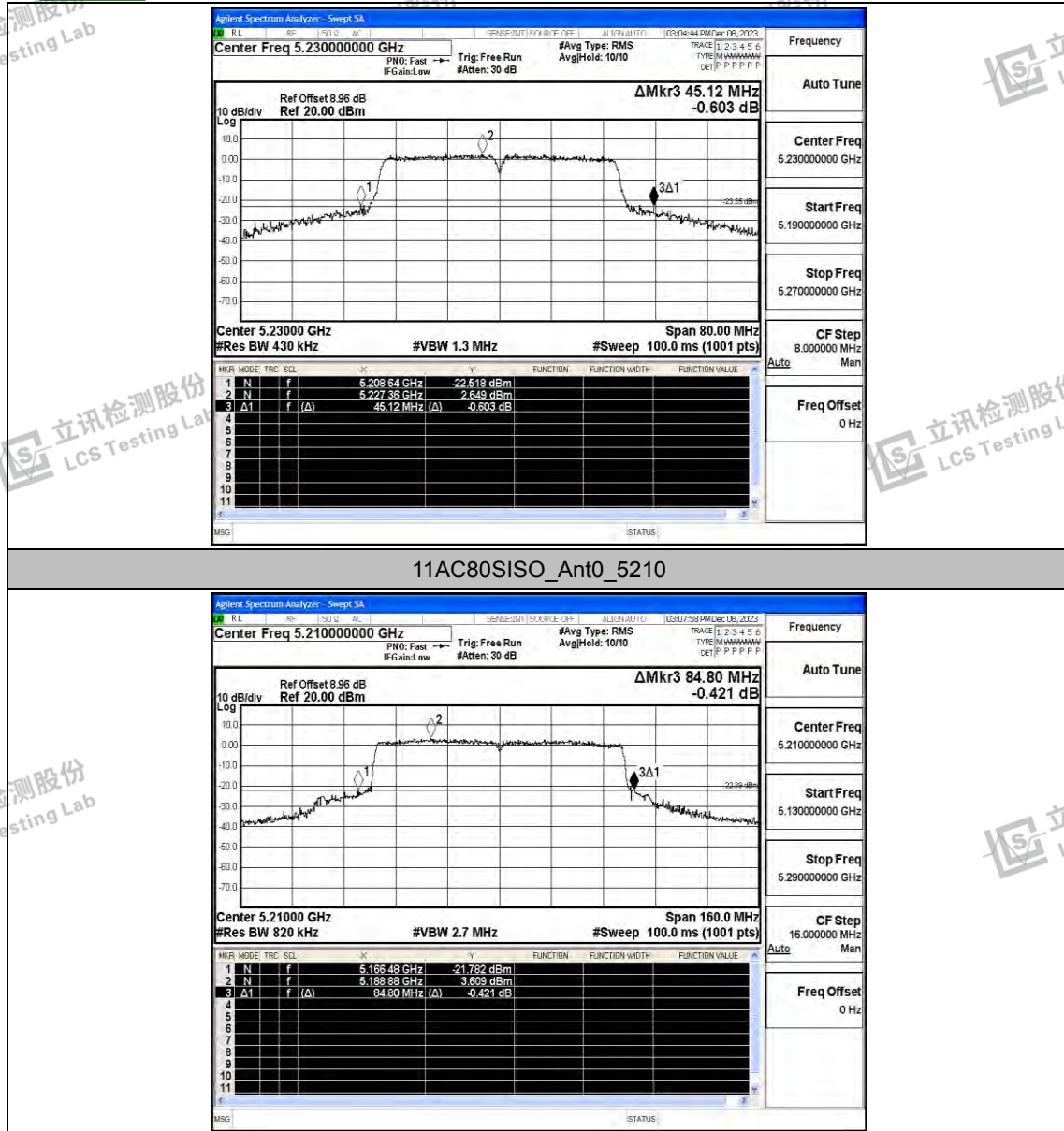


11AC40SISO_Ant0_5190



11AC40SISO_Ant0_5230





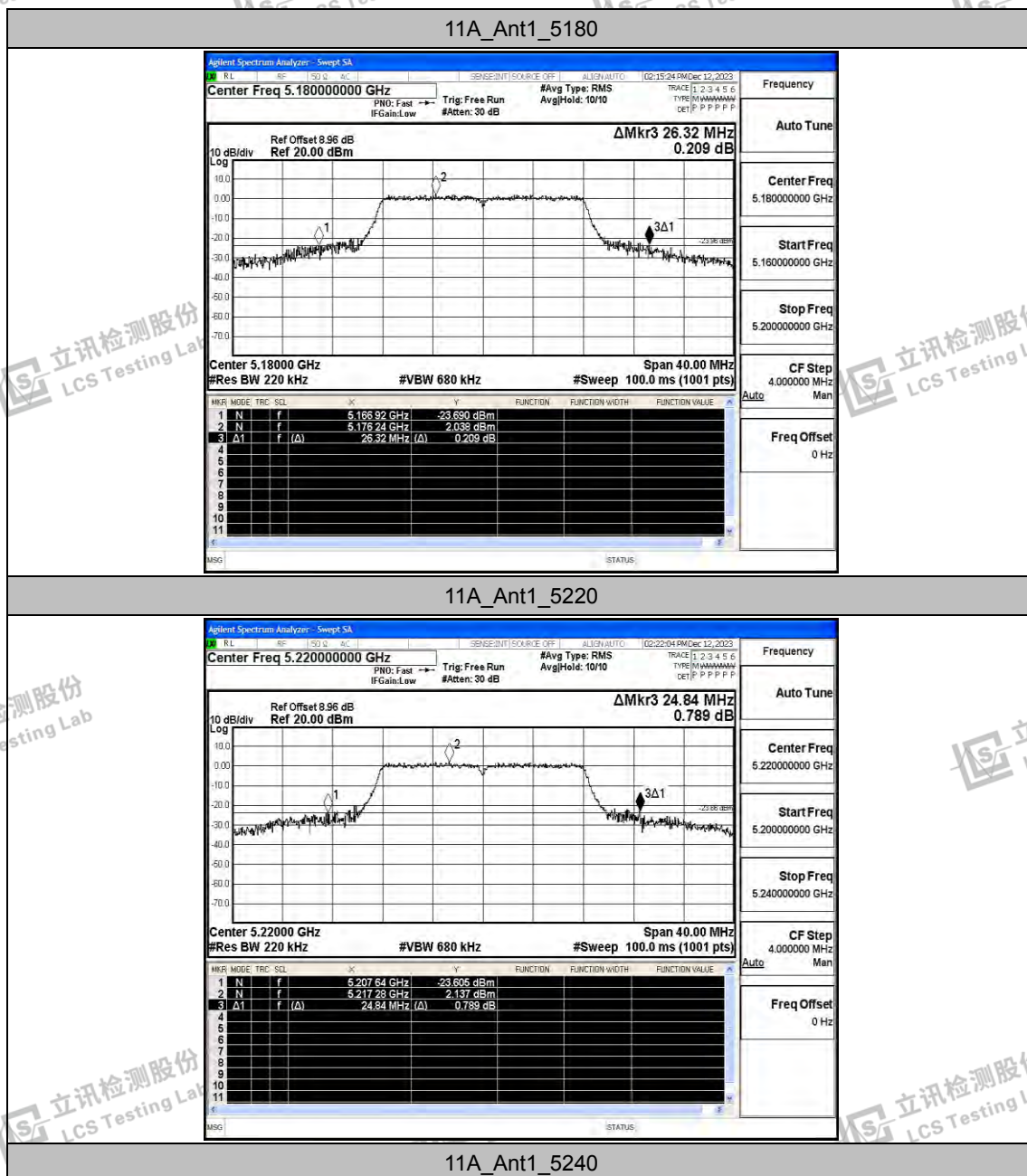
**Test Result**

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	26.320	5166.920	5193.240	---	---
		5220	24.840	5207.640	5232.480	---	---
		5240	27.600	5225.880	5253.480	---	---
11N20SISO	Ant1	5180	27.720	5166.680	5194.400	---	---
		5220	27.960	5205.440	5233.400	---	---
		5240	27.480	5225.720	5253.200	---	---
11N40SISO	Ant1	5190	47.120	5166.400	5213.520	---	---
		5230	41.200	5209.920	5251.120	---	---
11AC20SISO	Ant1	5180	30.160	5165.040	5195.200	---	---
		5220	28.120	5205.960	5234.080	---	---
		5240	30.200	5223.920	5254.120	---	---
11AC40SISO	Ant1	5190	42.000	5169.920	5211.920	---	---
		5230	43.200	5208.560	5251.760	---	---
11AC80SISO	Ant1	5210	84.480	5167.280	5251.760	---	---





Test Graphs

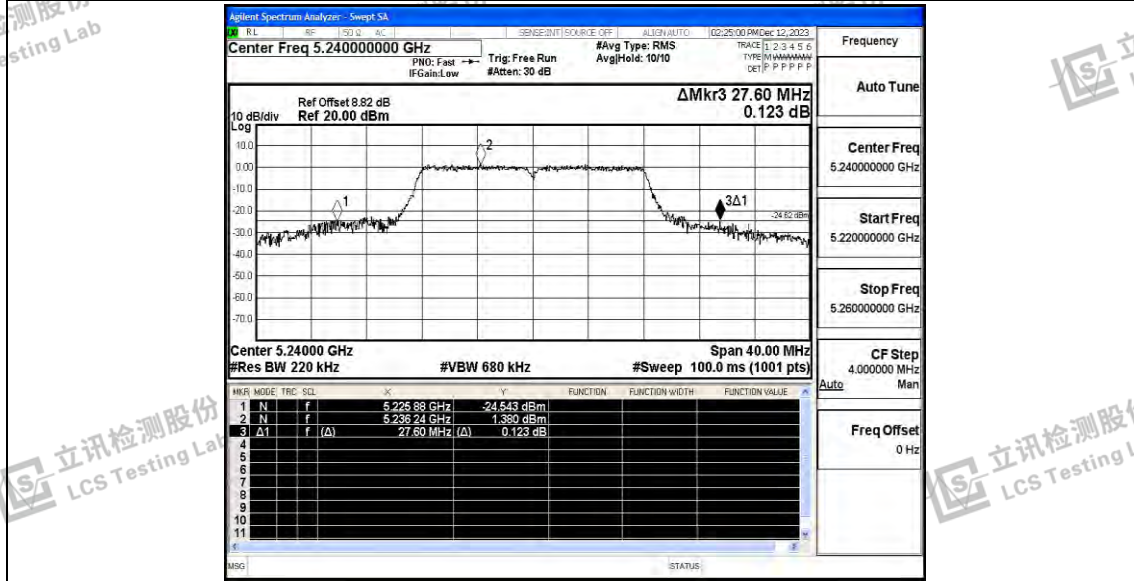


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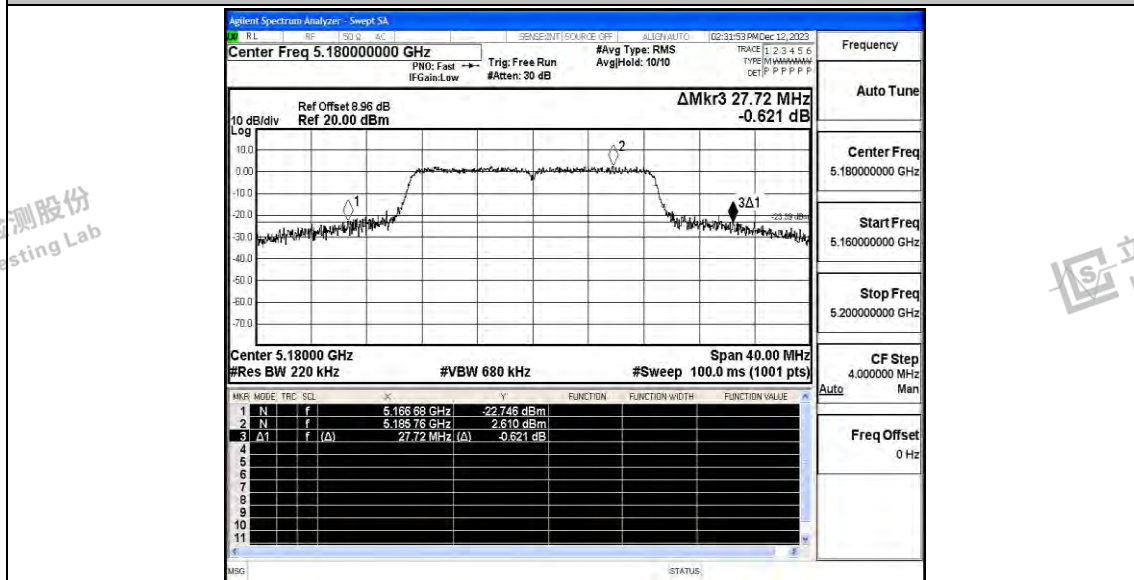
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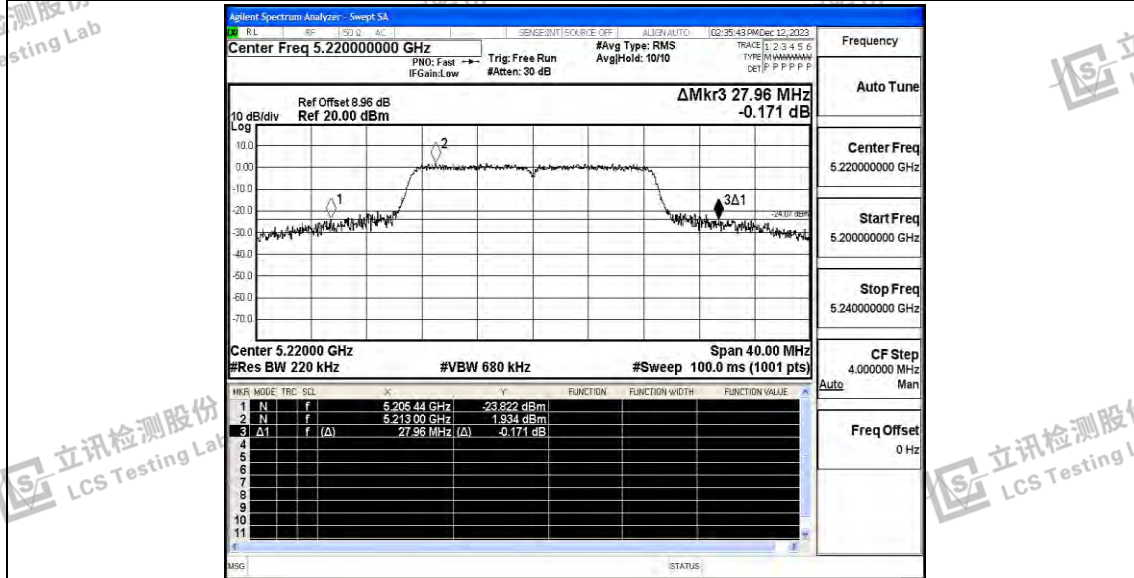


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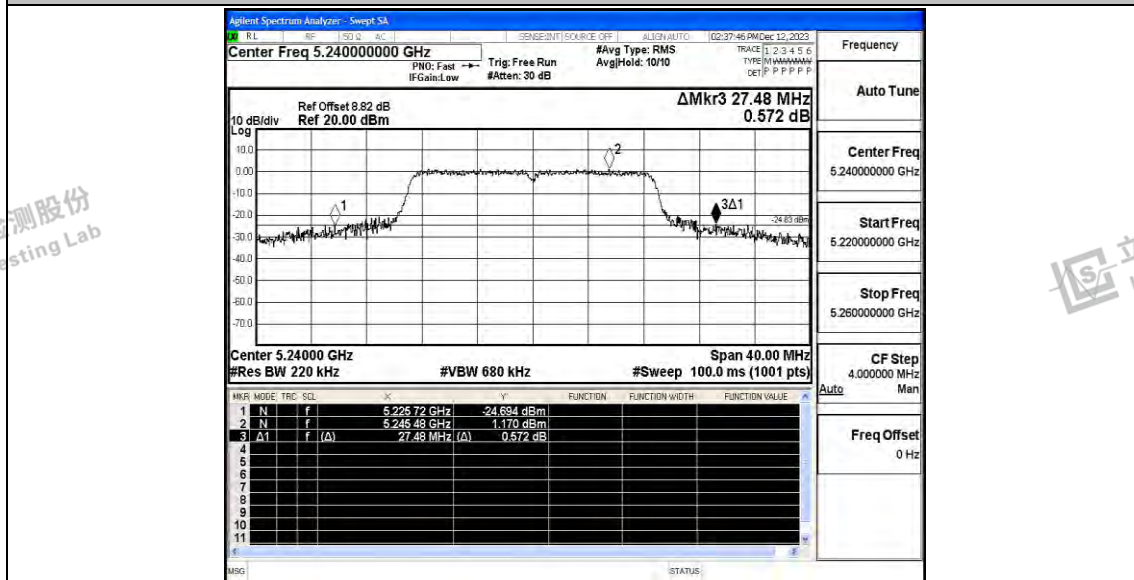


11N20SISO_Ant1_5220



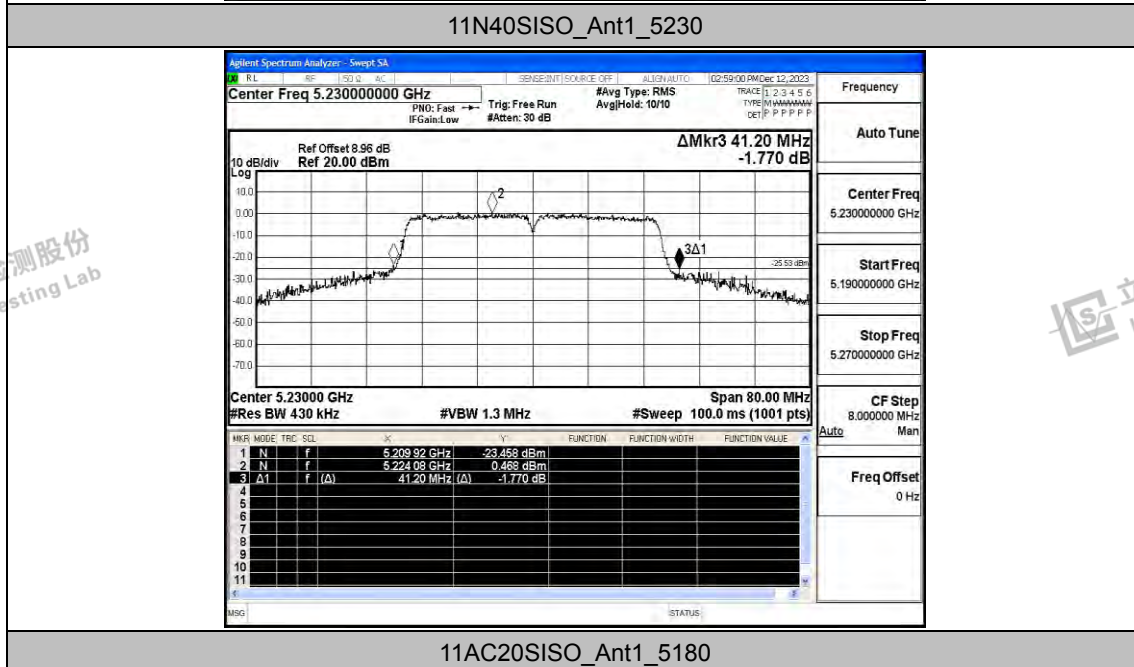
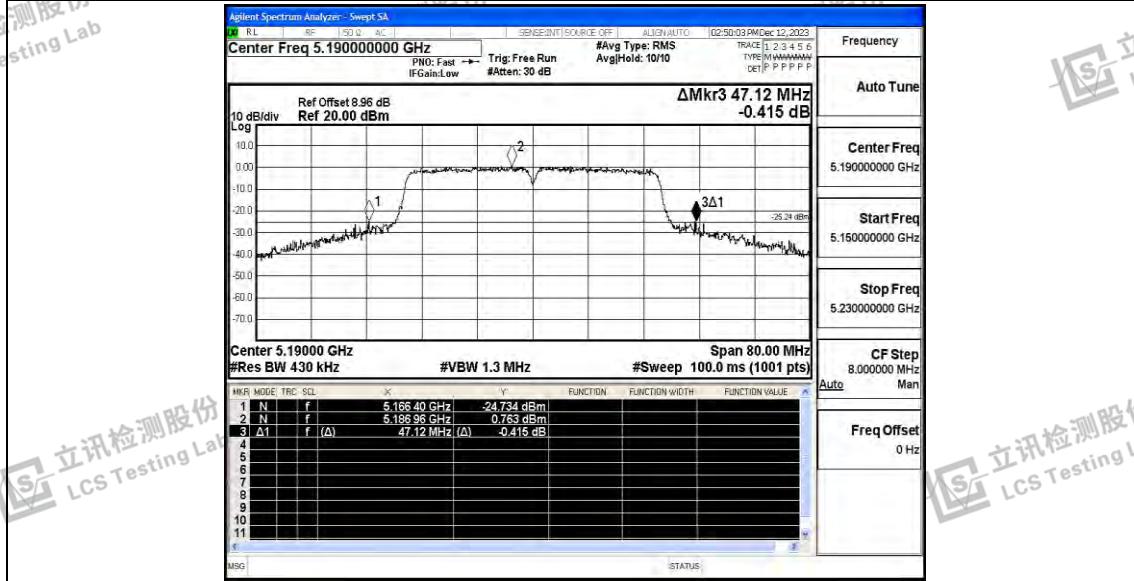


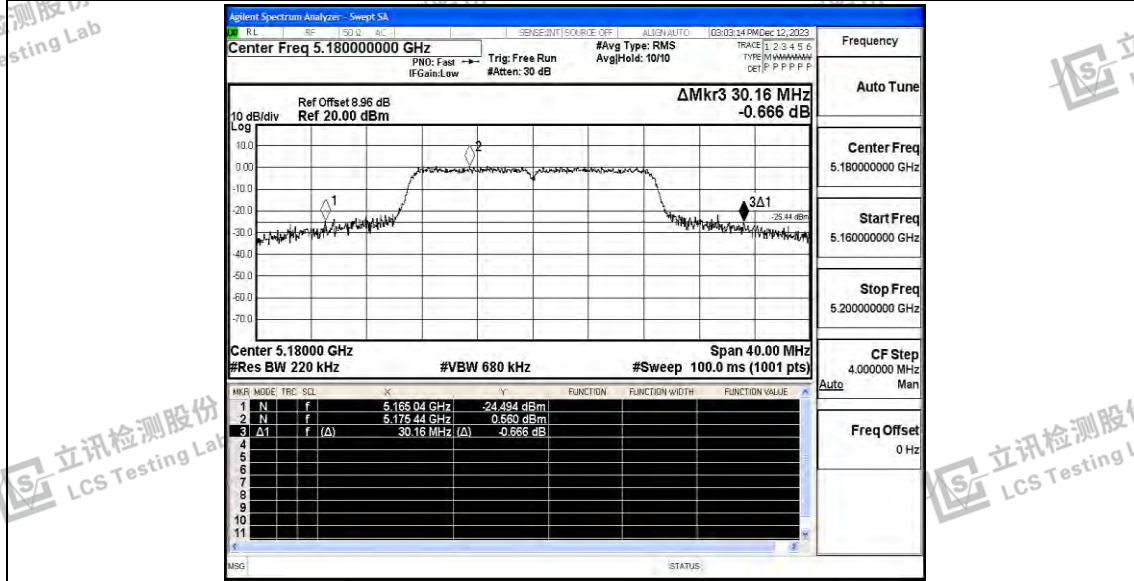
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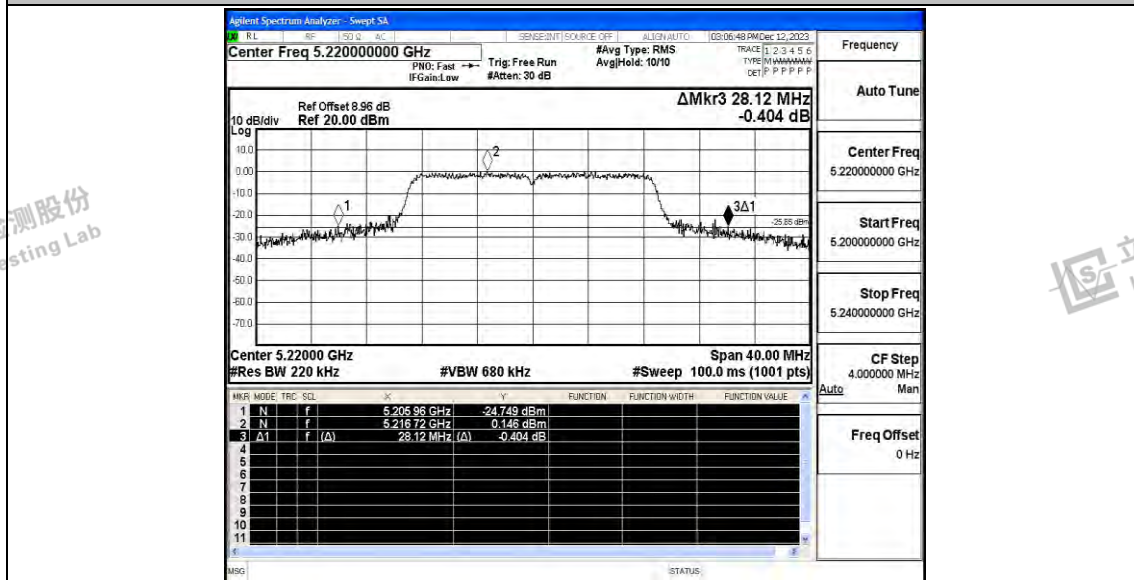
11N40SISO_Ant1_5190





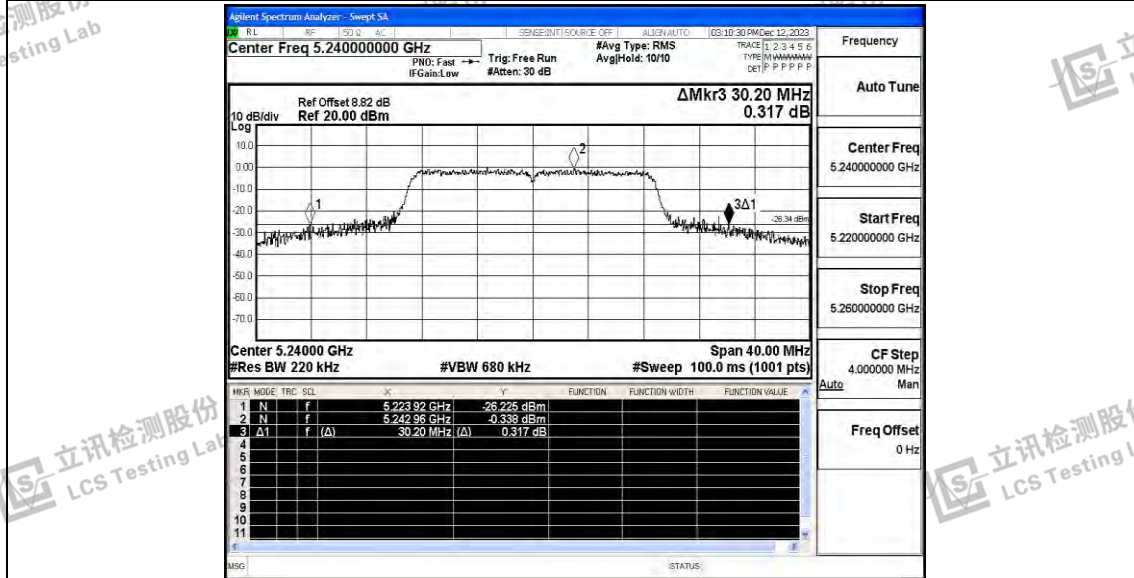


11AC20SISO_Ant1_5220

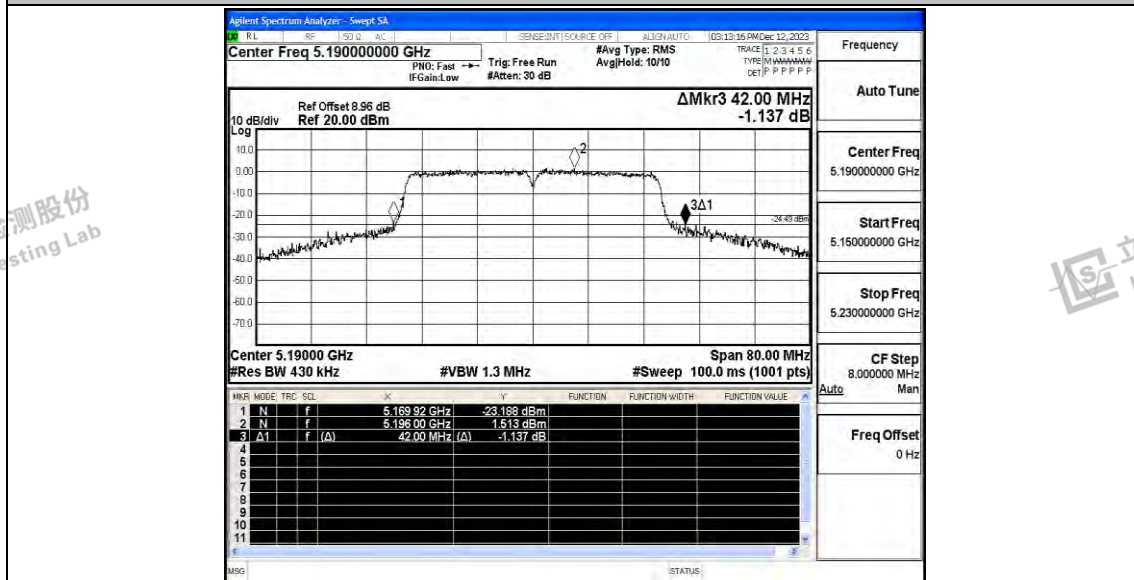


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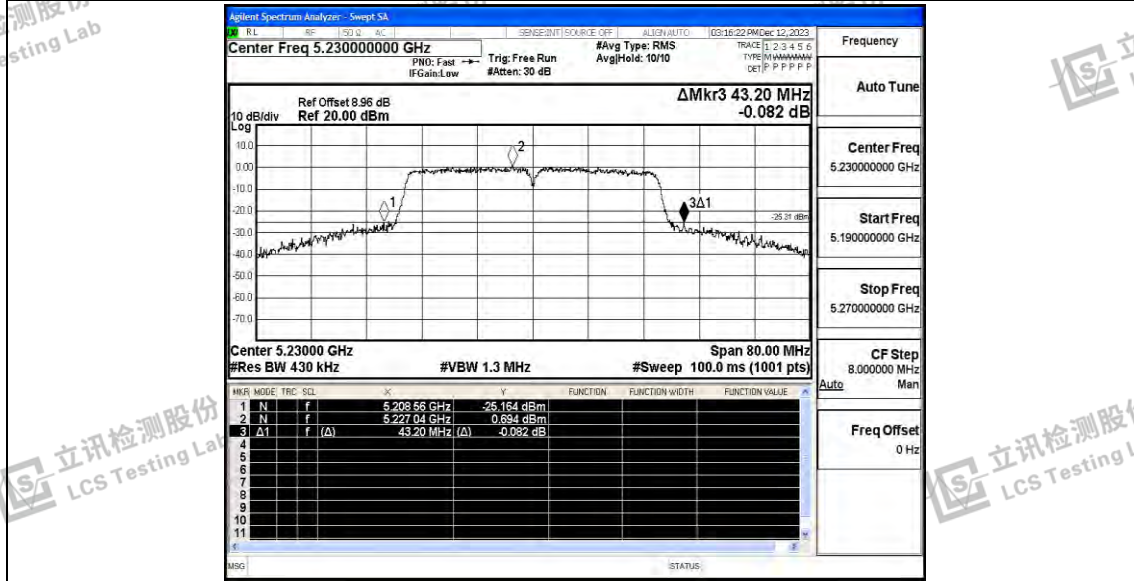


11AC40SISO_Ant1_5190

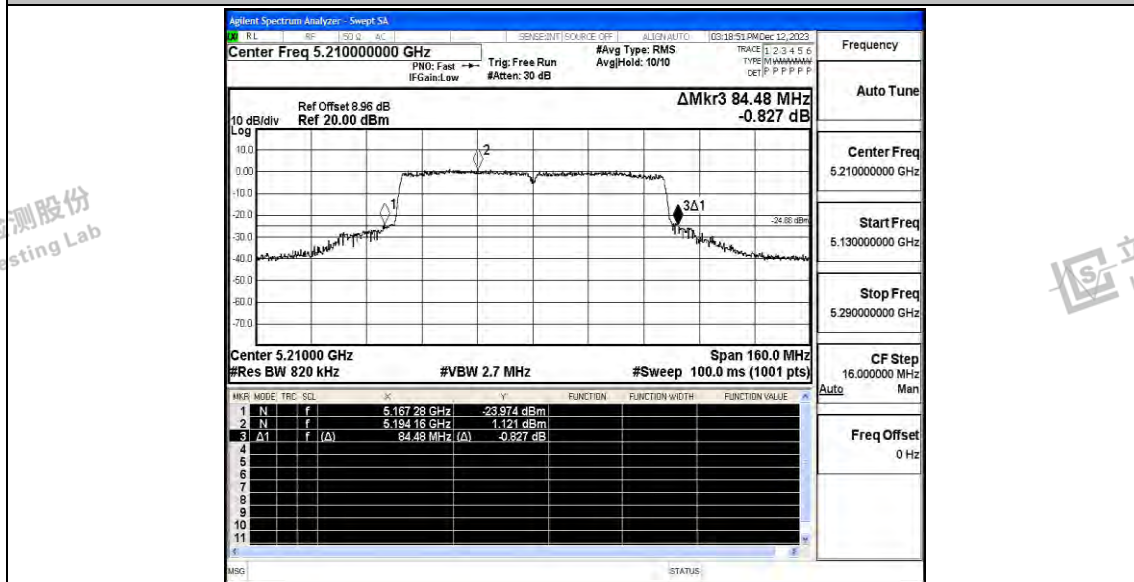


11AC40SISO_Ant1_5230





11AC80SISO_Ant1_5210



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D.2 Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant0	5180	12.80	95.89	0.18	12.98	≤24	PASS
		5220	12.08	95.89	0.18	12.26	≤24	PASS
		5240	11.59	95.86	0.18	11.77	≤24	PASS
11N20SISO	Ant0	5180	13.02	95.16	0.22	13.24	≤24	PASS
		5220	12.31	94.35	0.25	12.56	≤24	PASS
		5240	11.83	95.16	0.22	12.05	≤24	PASS
11N40SISO	Ant0	5190	12.54	89.23	0.49	13.03	≤24	PASS
		5230	11.88	90.77	0.42	12.30	≤24	PASS
11AC20SISO	Ant0	5180	13.24	94.44	0.25	13.49	≤24	PASS
		5220	12.38	95.20	0.21	12.59	≤24	PASS
		5240	11.84	94.44	0.25	12.09	≤24	PASS
11AC40SISO	Ant0	5190	12.56	89.39	0.49	13.05	≤24	PASS
		5230	11.86	90.77	0.42	12.28	≤24	PASS
11AC80SISO	Ant0	5210	11.91	83.33	0.79	12.70	≤24	PASS

Test Mode	Antenna	Frequency[MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	12.14	95.21	0.21	12.35	≤24	PASS
		5220	11.87	95.21	0.21	12.08	≤24	PASS
		5240	11.41	95.86	0.18	11.59	≤24	PASS
11N20SISO	Ant1	5180	12.58	94.35	0.25	12.83	≤24	PASS
		5220	11.88	94.35	0.25	12.13	≤24	PASS
		5240	11.44	95.12	0.22	11.66	≤24	PASS
11N40SISO	Ant1	5190	10.27	89.23	0.49	10.76	≤24	PASS
		5230	9.36	90.77	0.42	9.78	≤24	PASS
11AC20SISO	Ant1	5180	10.58	95.20	0.21	10.79	≤24	PASS
		5220	10.22	95.20	0.21	10.43	≤24	PASS
		5240	9.51	95.20	0.21	9.72	≤24	PASS
11AC40SISO	Ant1	5190	10.32	90.91	0.41	10.73	≤24	PASS
		5230	9.52	89.39	0.49	10.01	≤24	PASS
11AC80SISO	Ant1	5210	9.61	83.33	0.79	10.40	≤24	PASS

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





MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5180	13.24	12.83	16.05	24	Pass
NVNT	n20	5220	12.56	12.13	15.36	24	Pass
NVNT	n20	5240	12.05	11.66	14.87	24	Pass
NVNT	n40	5190	13.03	10.76	15.05	24	Pass
NVNT	n40	5230	12.30	9.78	14.23	24	Pass
NVNT	ac20	5180	13.49	10.79	15.36	24	Pass
NVNT	ac20	5220	12.59	10.43	14.65	24	Pass
NVNT	ac20	5240	12.09	9.72	14.08	24	Pass
NVNT	ac40	5190	13.05	10.73	15.05	24	Pass
NVNT	ac40	5230	12.28	10.01	14.30	24	Pass
NVNT	ac80	5210	12.70	10.40	14.71	24	Pass





D.3 Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant0	5180	1.48	≤11.00	PASS
		5220	0.78	≤11.00	PASS
		5240	0.35	≤11.00	PASS
11N20SISO	Ant0	5180	1.55	≤11.00	PASS
		5220	0.97	≤11.00	PASS
		5240	0.45	≤11.00	PASS
11N40SISO	Ant0	5190	-1.33	≤11.00	PASS
		5230	-2.16	≤11.00	PASS
11AC20SISO	Ant0	5180	1.8	≤11.00	PASS
		5220	0.92	≤11.00	PASS
		5240	0.5	≤11.00	PASS
11AC40SISO	Ant0	5190	-1.29	≤11.00	PASS
		5230	-2.19	≤11.00	PASS
11AC80SISO	Ant0	5210	-4.62	≤11.00	PASS

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	0.85	≤11.00	PASS
		5220	0.66	≤11.00	PASS
		5240	0.22	≤11.00	PASS
11N20SISO	Ant1	5180	1.13	≤11.00	PASS
		5220	0.43	≤11.00	PASS
		5240	0.13	≤11.00	PASS
11N40SISO	Ant1	5190	-3.68	≤11.00	PASS
		5230	-4.55	≤11.00	PASS
11AC20SISO	Ant1	5180	-0.94	≤11.00	PASS
		5220	-1.21	≤11.00	PASS
		5240	-1.73	≤11.00	PASS
11AC40SISO	Ant1	5190	-3.73	≤11.00	PASS
		5230	-4.4	≤11.00	PASS
11AC80SISO	Ant1	5210	-6.9	≤11.00	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.

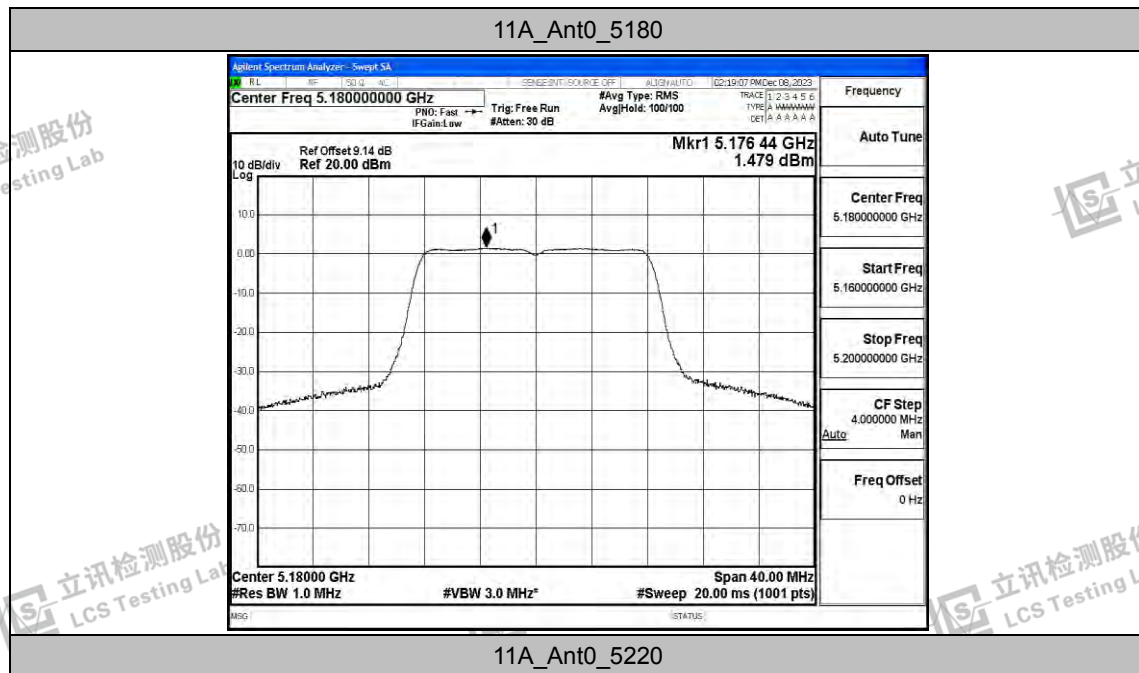


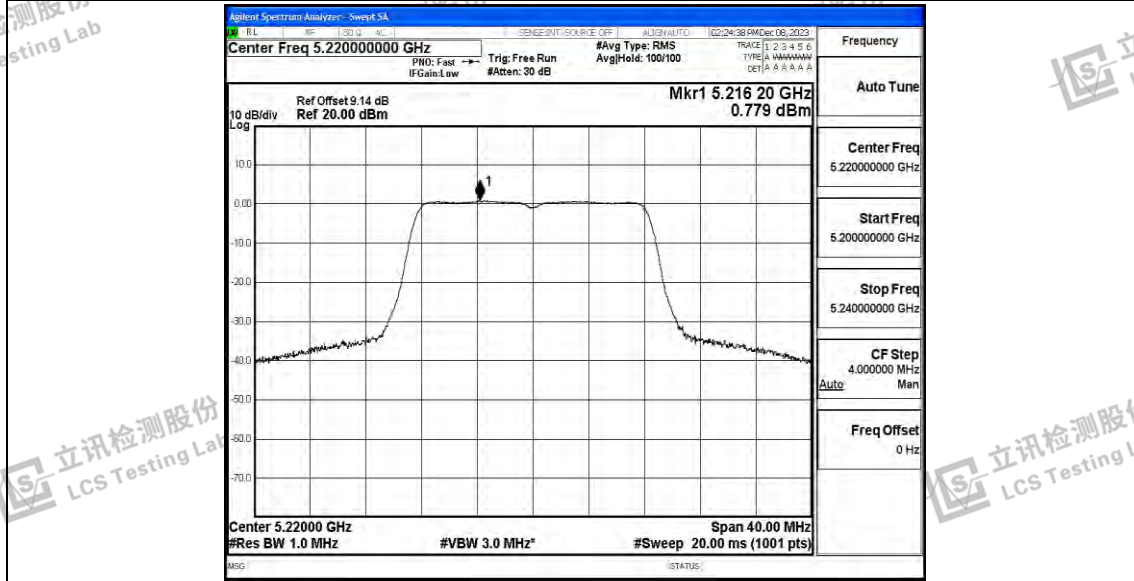


MIMO

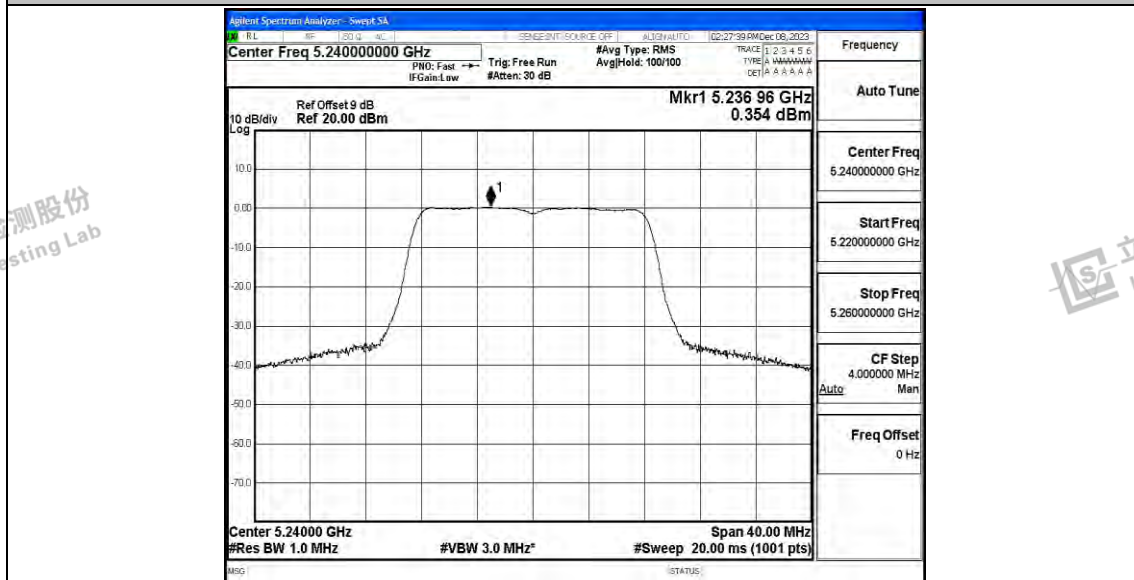
Condition	Mode	Frequency (MHz)	Total PSD (dBm/MHz)			Limit (dBm/MHz)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5180	1.55	1.13	4.36	11	Pass
NVNT	n20	5220	0.97	0.43	3.72	11	Pass
NVNT	n20	5240	0.45	0.13	3.30	11	Pass
NVNT	n40	5190	-1.33	-3.68	0.66	11	Pass
NVNT	n40	5230	-2.16	-4.55	-0.18	11	Pass
NVNT	ac20	5180	1.8	-0.94	3.65	11	Pass
NVNT	ac20	5220	0.92	-1.21	2.99	11	Pass
NVNT	ac20	5240	0.5	-1.73	2.54	11	Pass
NVNT	ac40	5190	-1.29	-3.73	0.67	11	Pass
NVNT	ac40	5230	-2.19	-4.4	-0.15	11	Pass
NVNT	ac80	5210	-4.62	-6.9	-2.60	11	Pass

Test Graphs



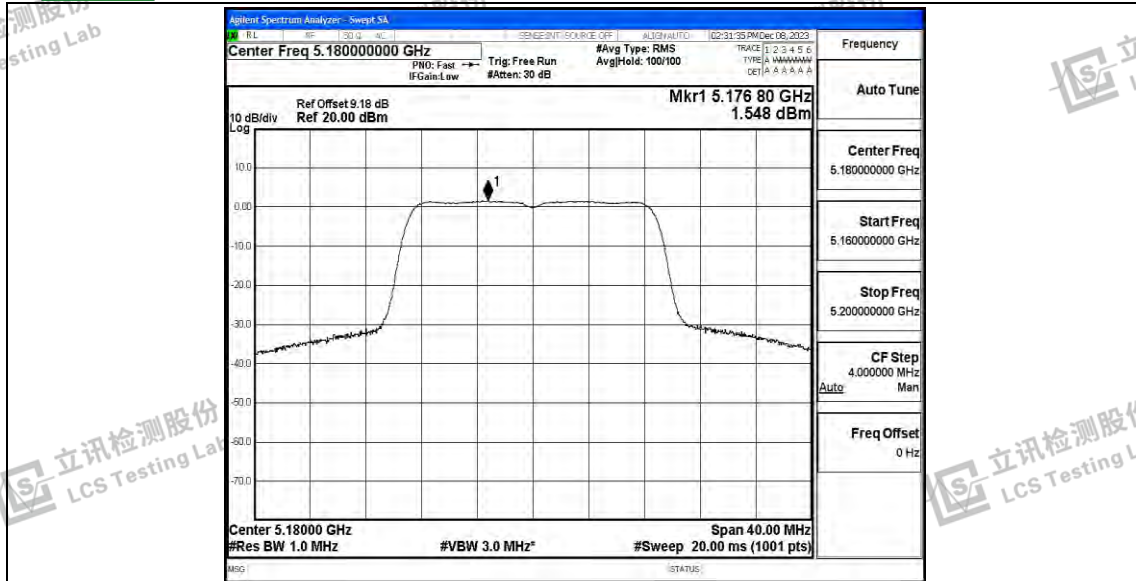


11A_Ant0_5240

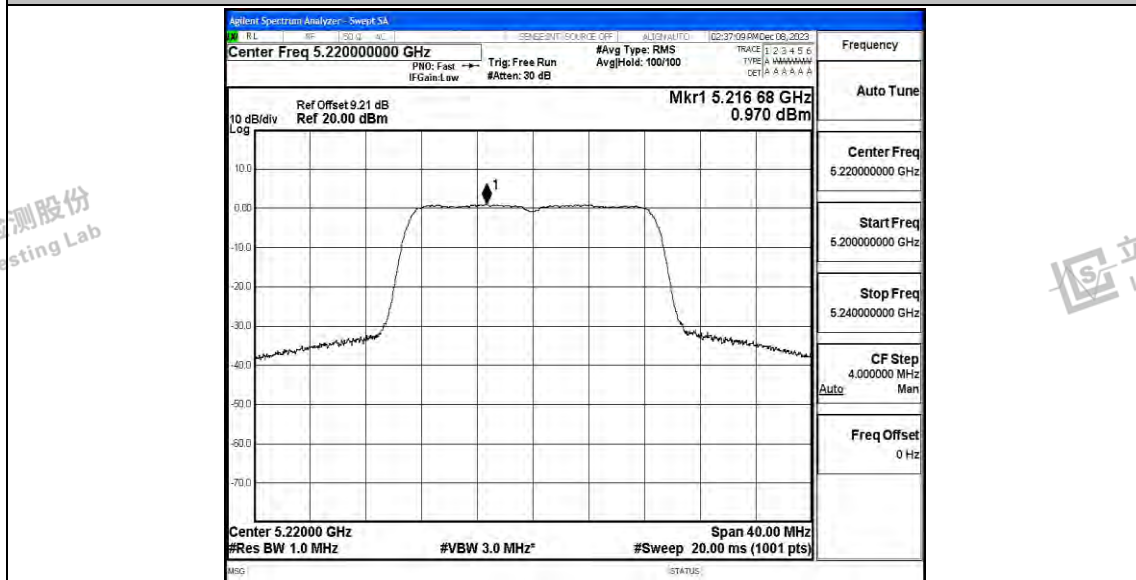


11N20SISO_Ant0_5180



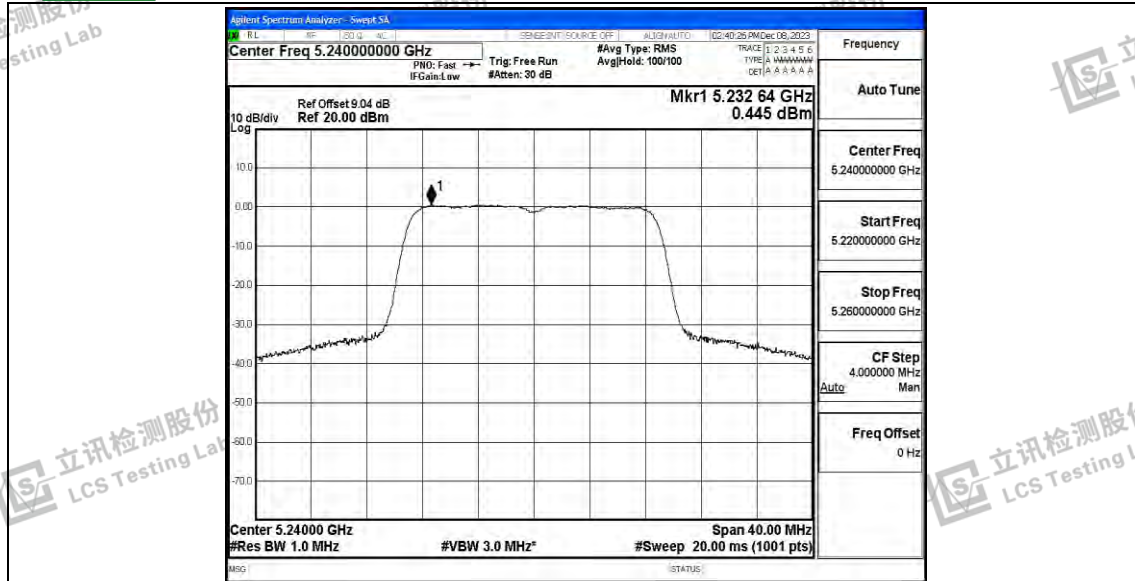


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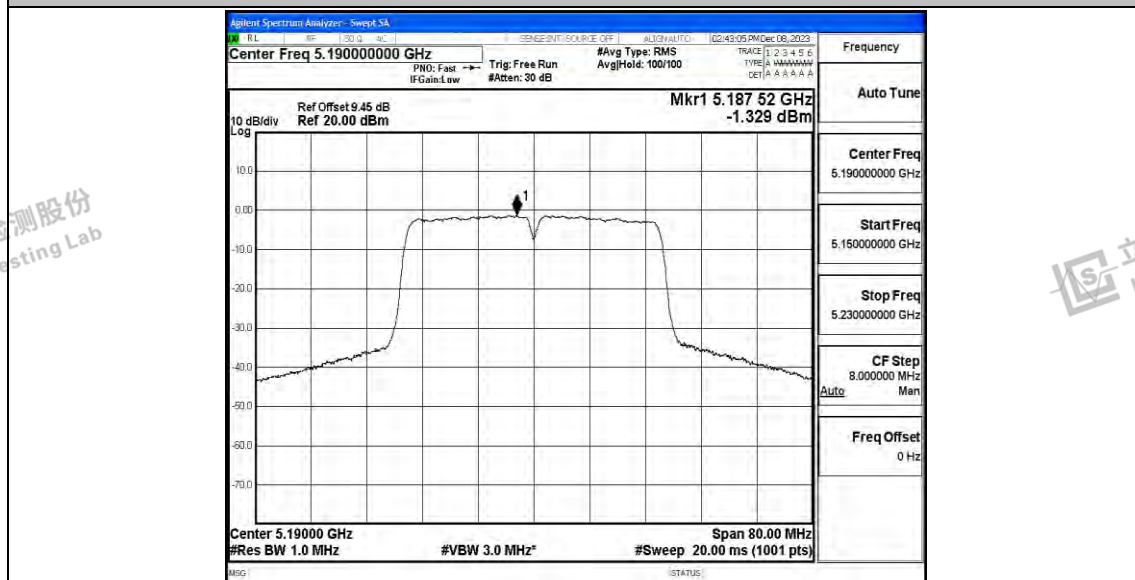


11N20SISO_Ant0_5240





11N40SISO_Ant0_5190



11N40SISO_Ant0_5230

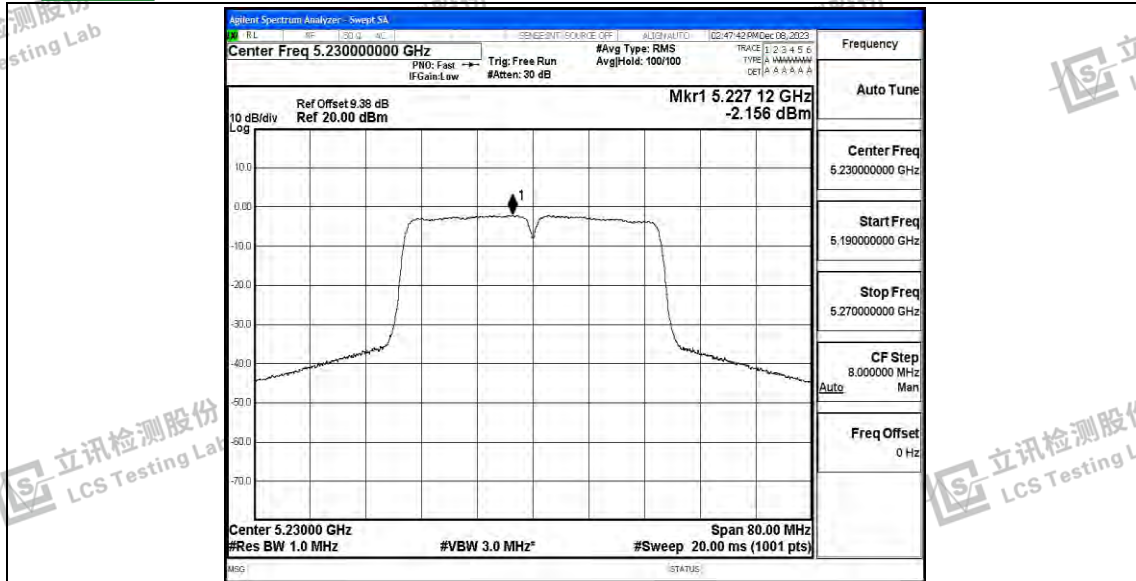


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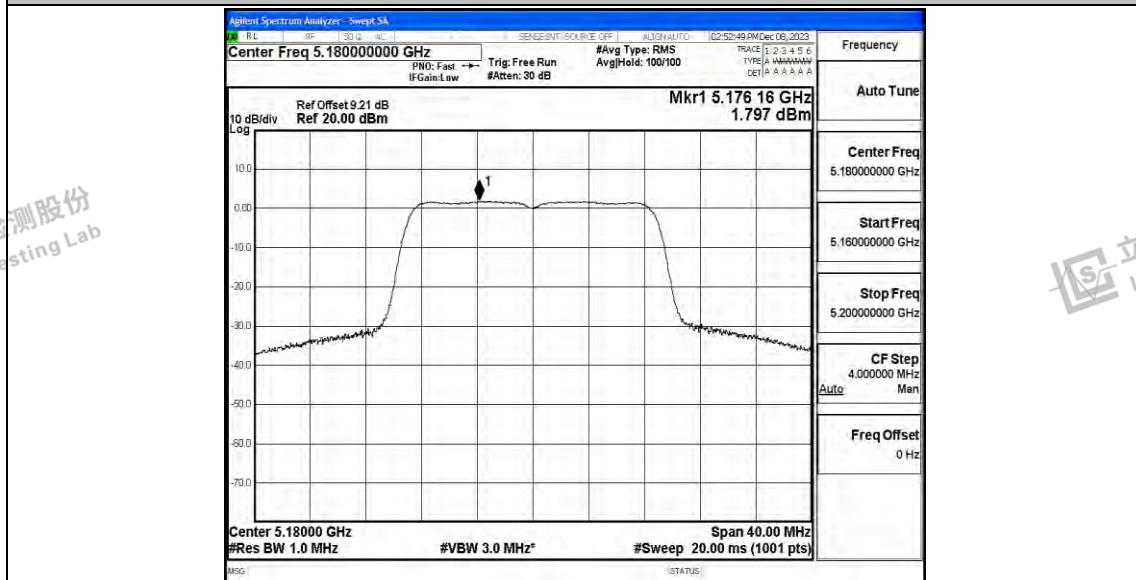
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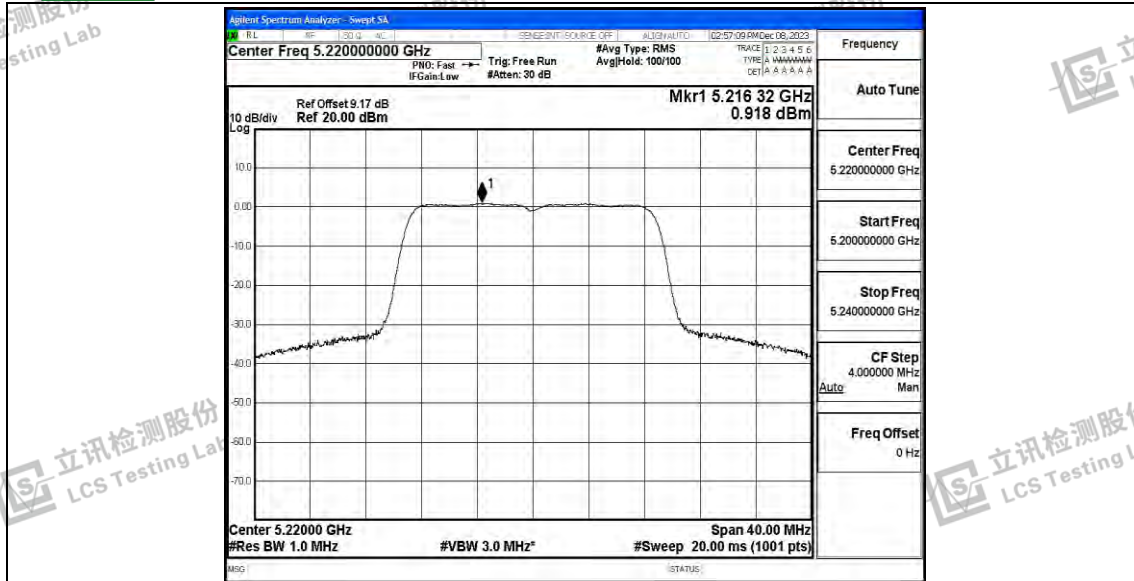


11AC20SISO_Ant0_5180

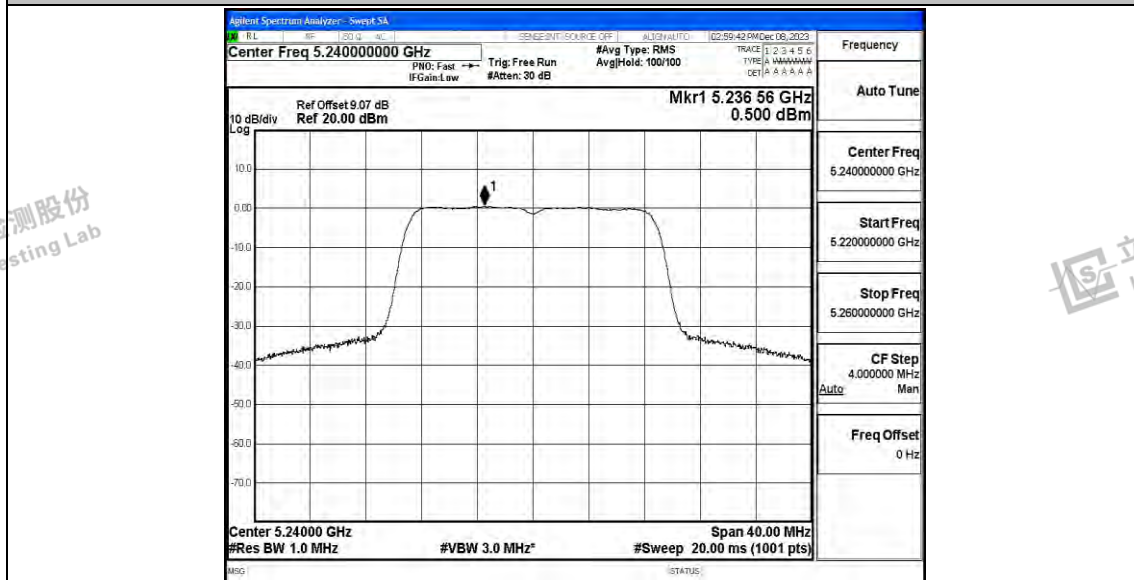


11AC20SISO_Ant0_5220



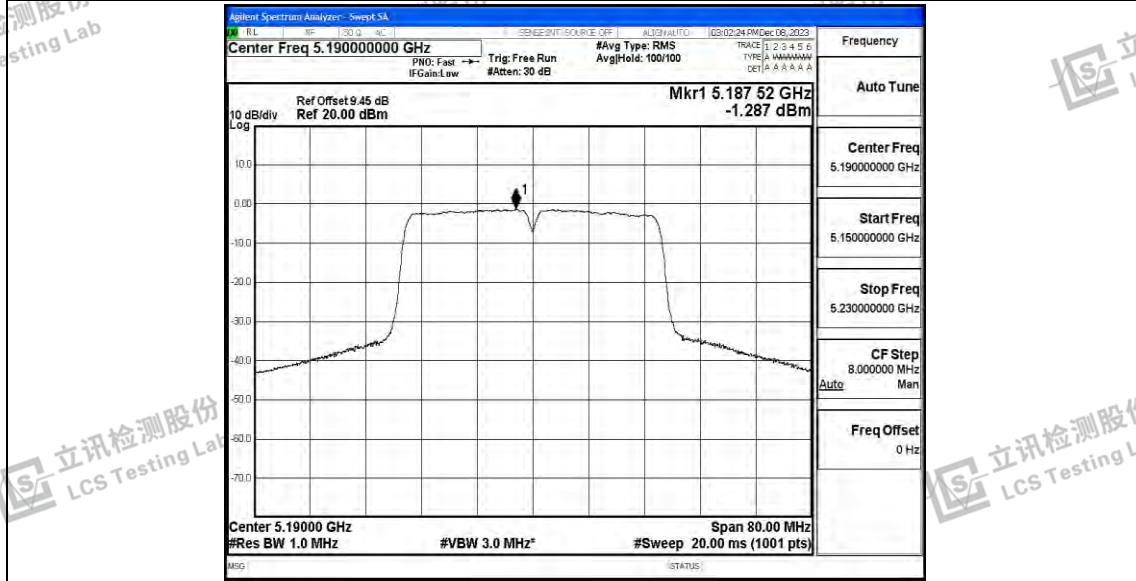


11AC20SISO_Ant0_5240

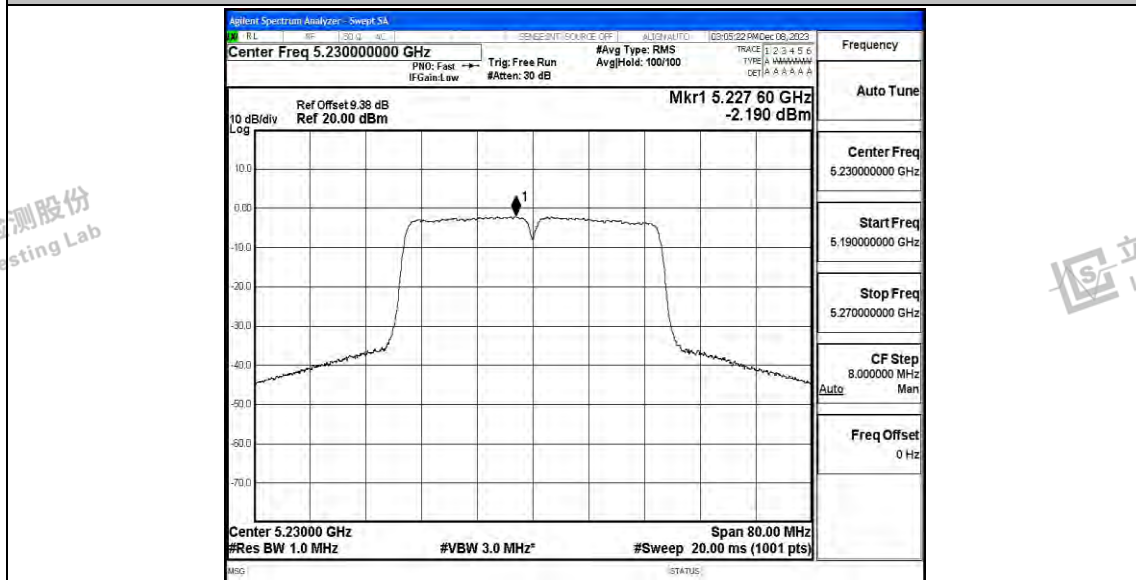


11AC40SISO_Ant0_5190



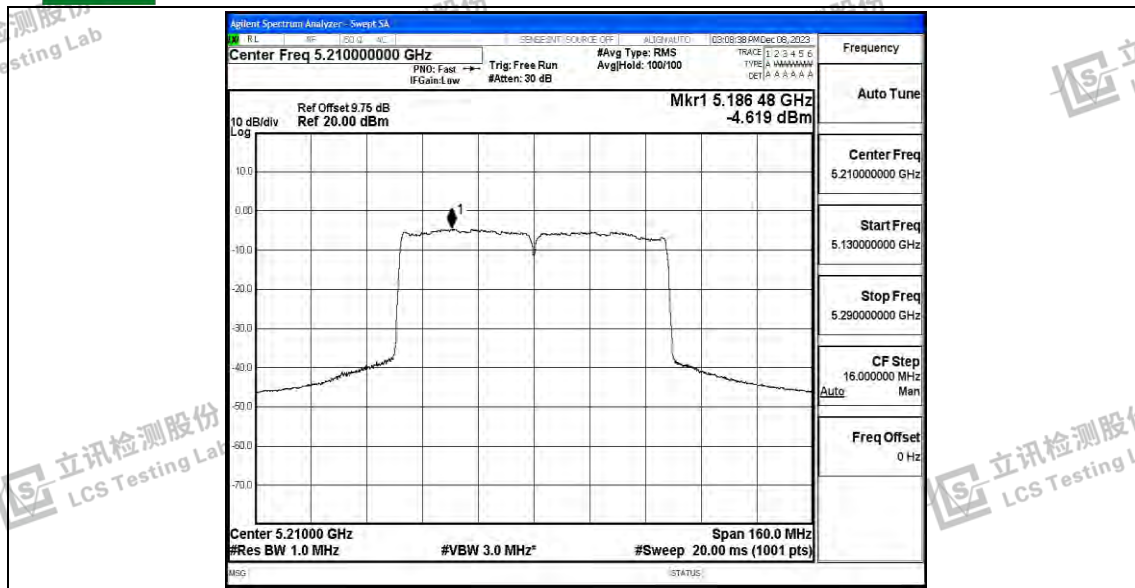


11AC40SISO_Ant0_5230



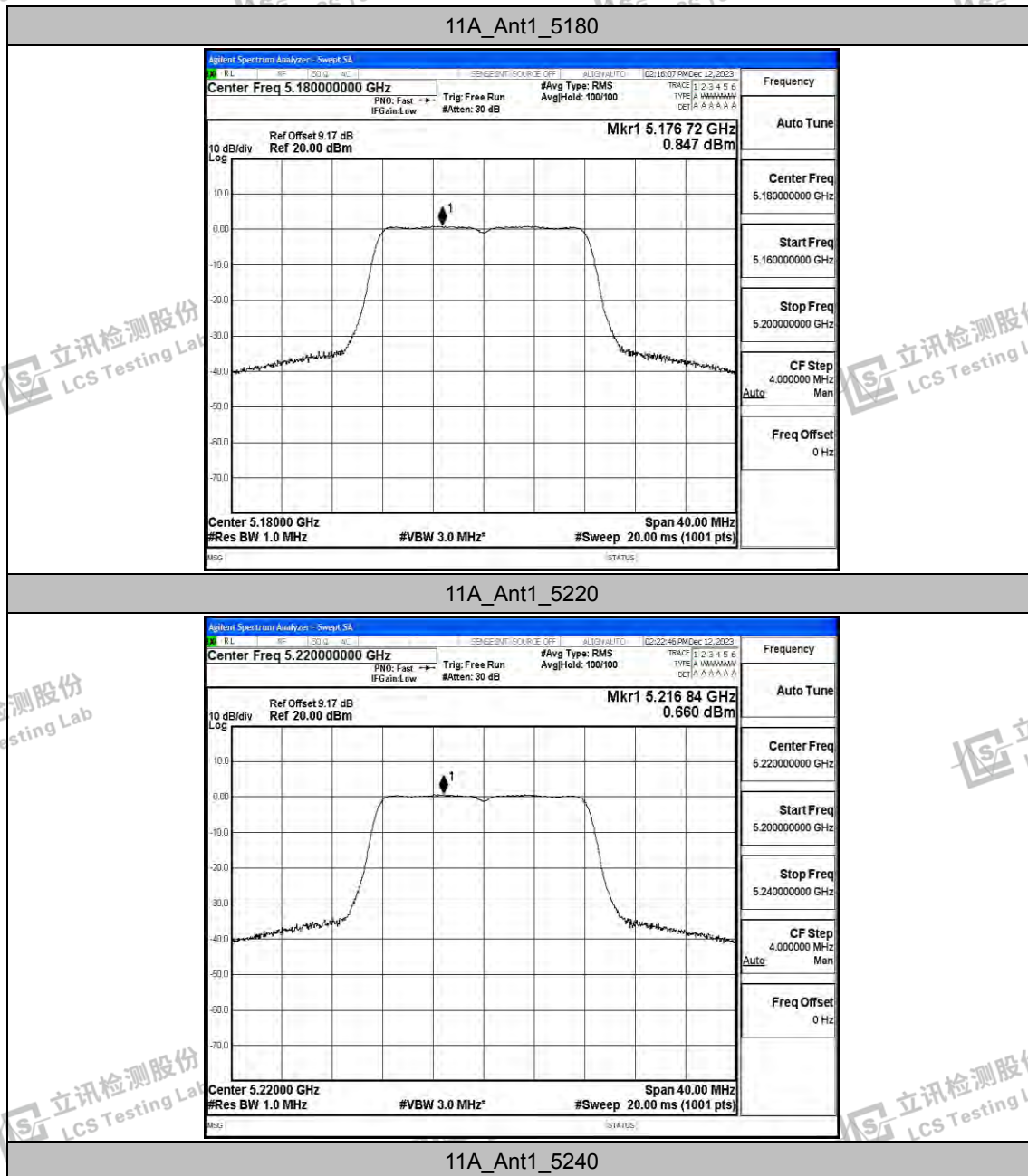
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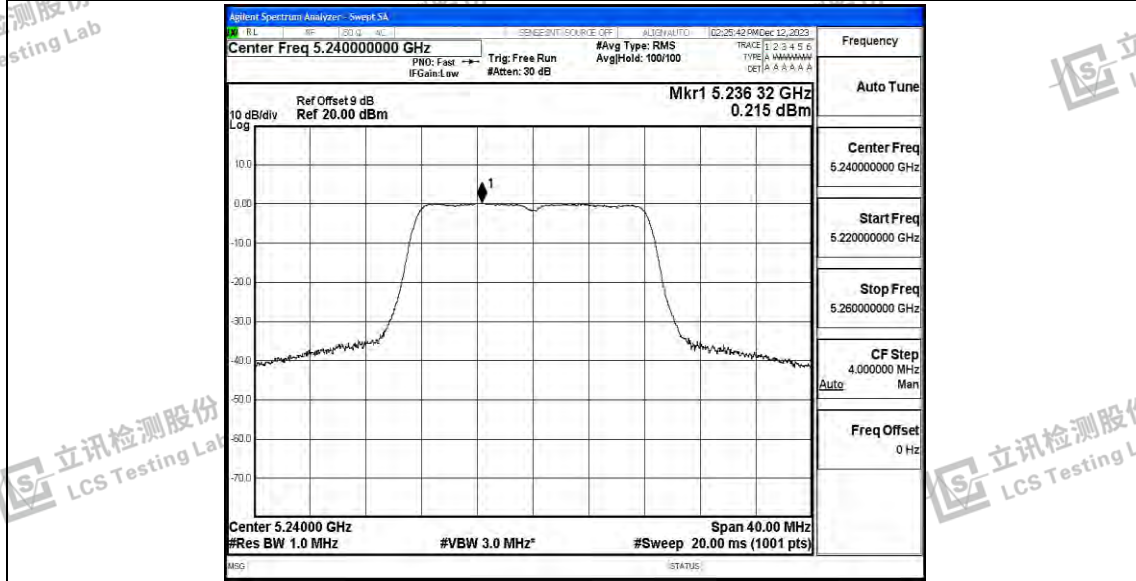




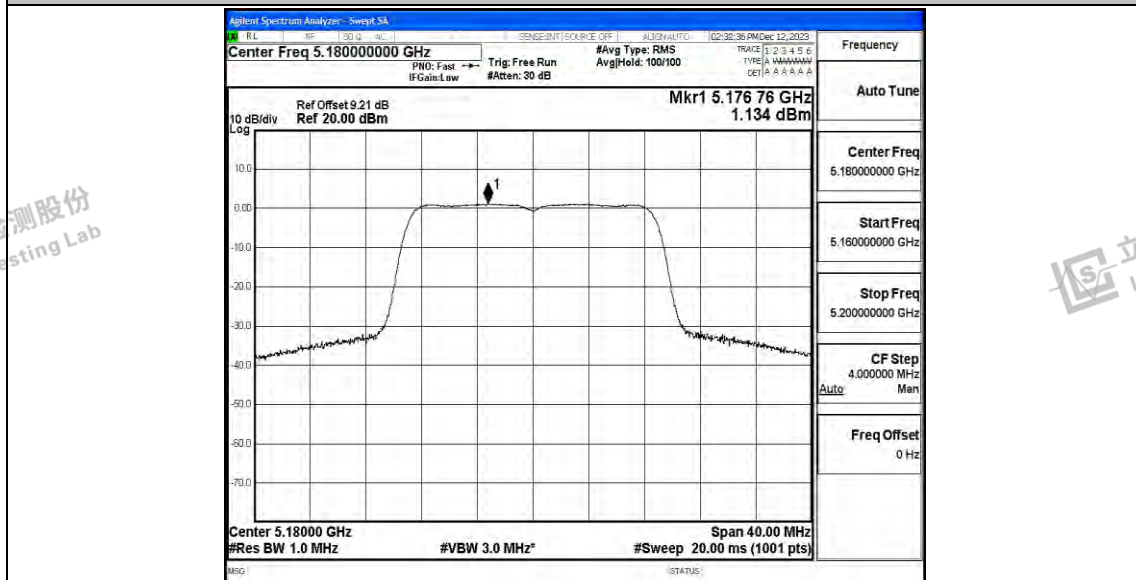


Test Graphs



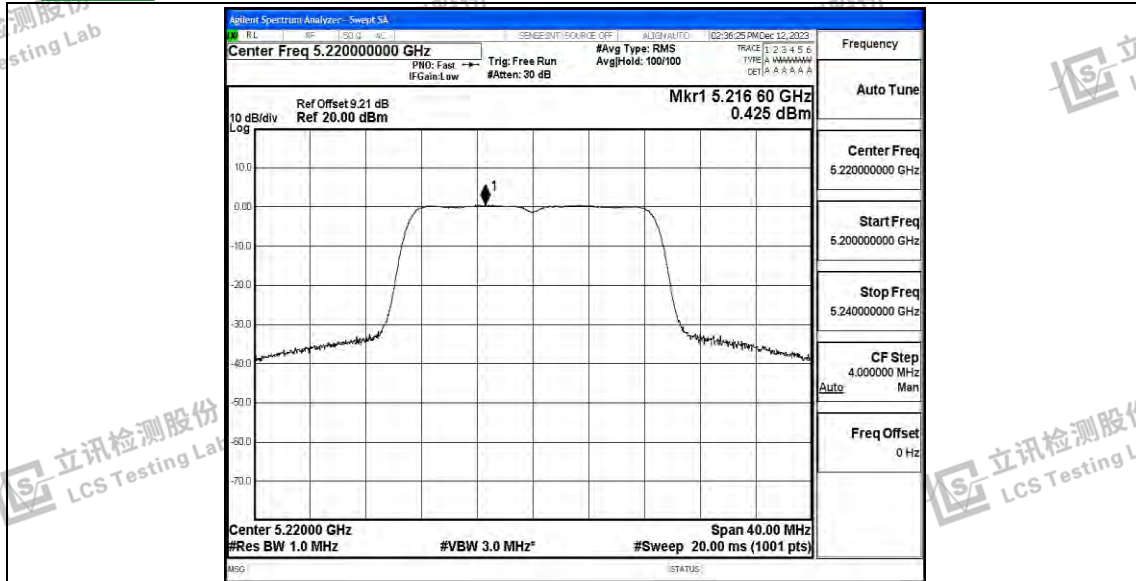


11N20SISO_Ant1_5180

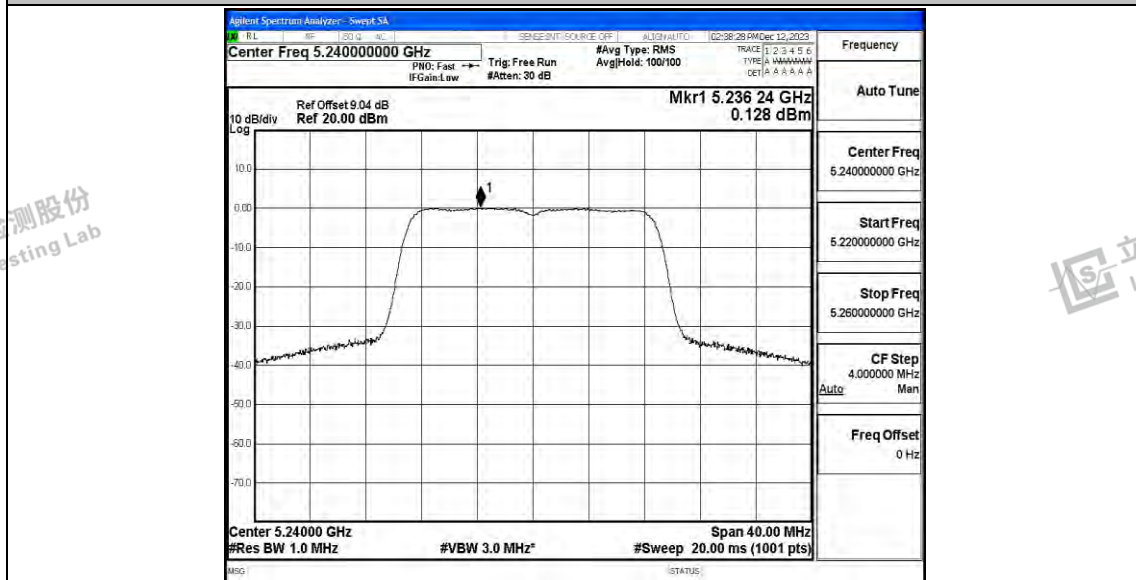


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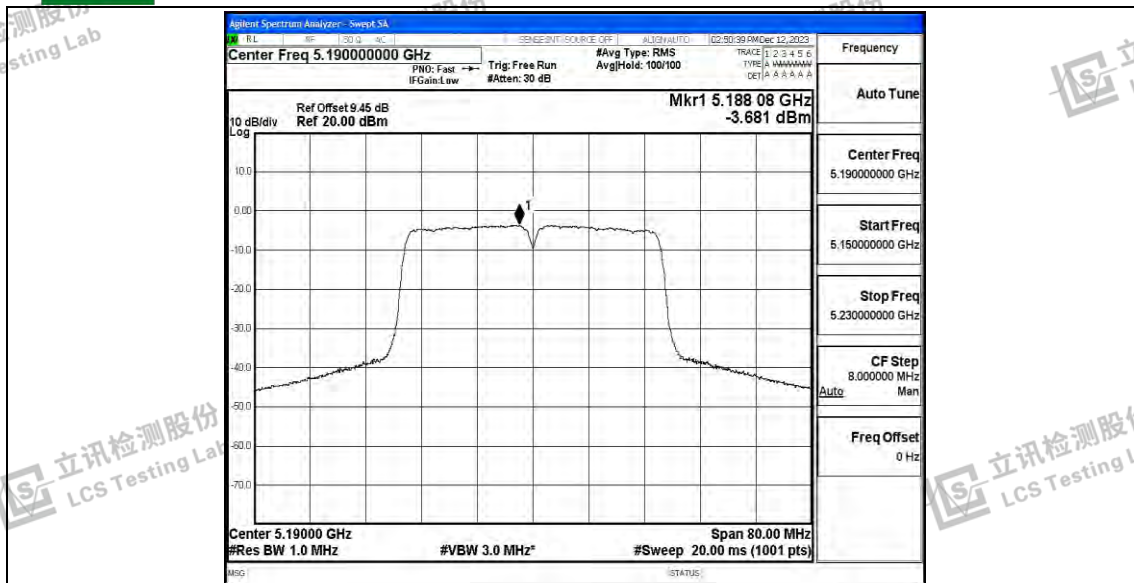


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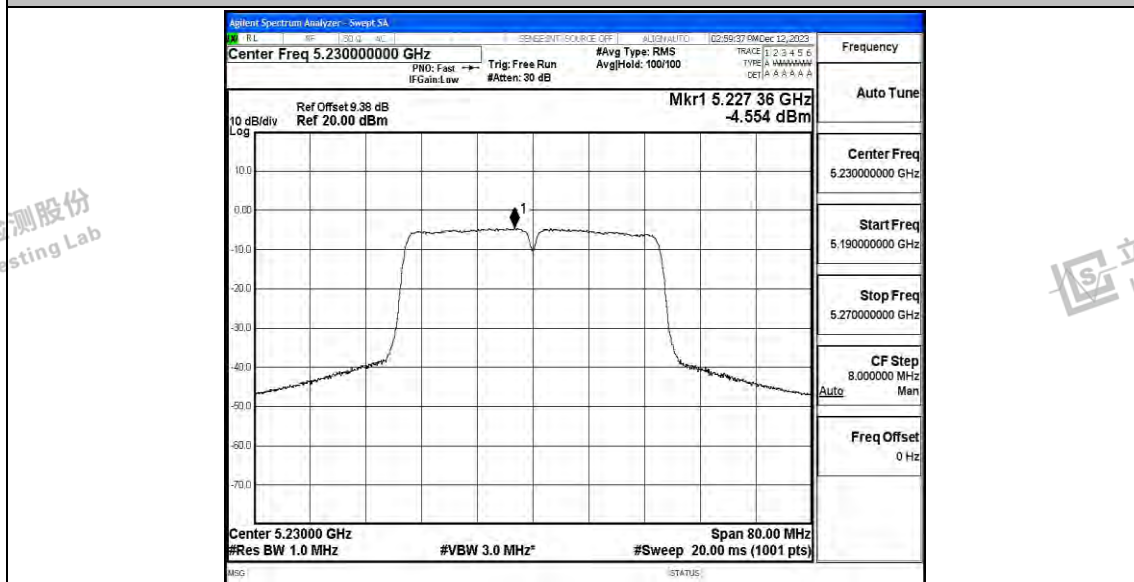


11N40SISO_Ant1_5190



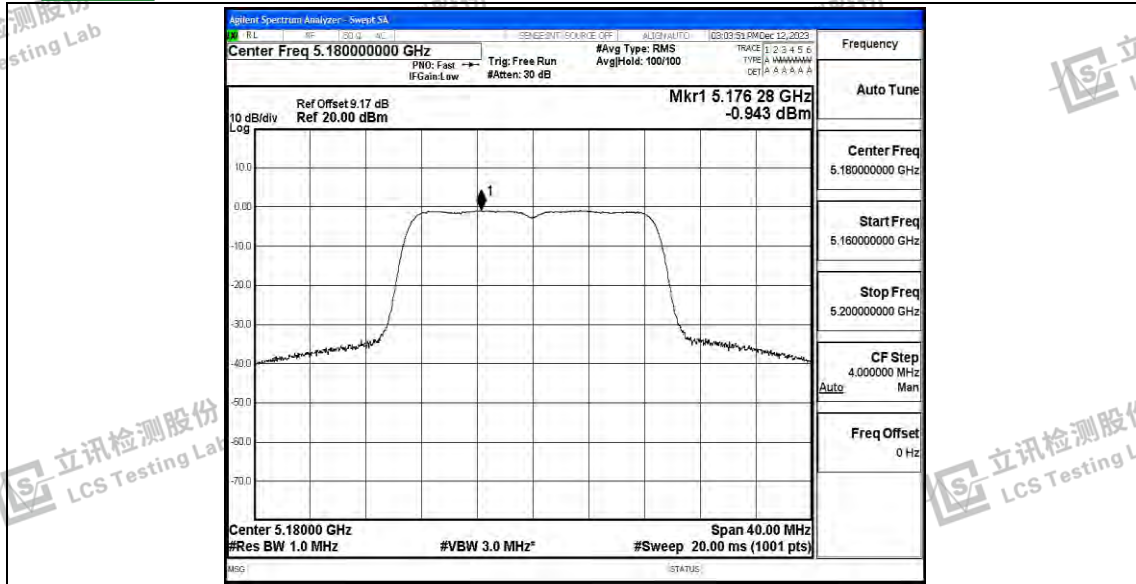


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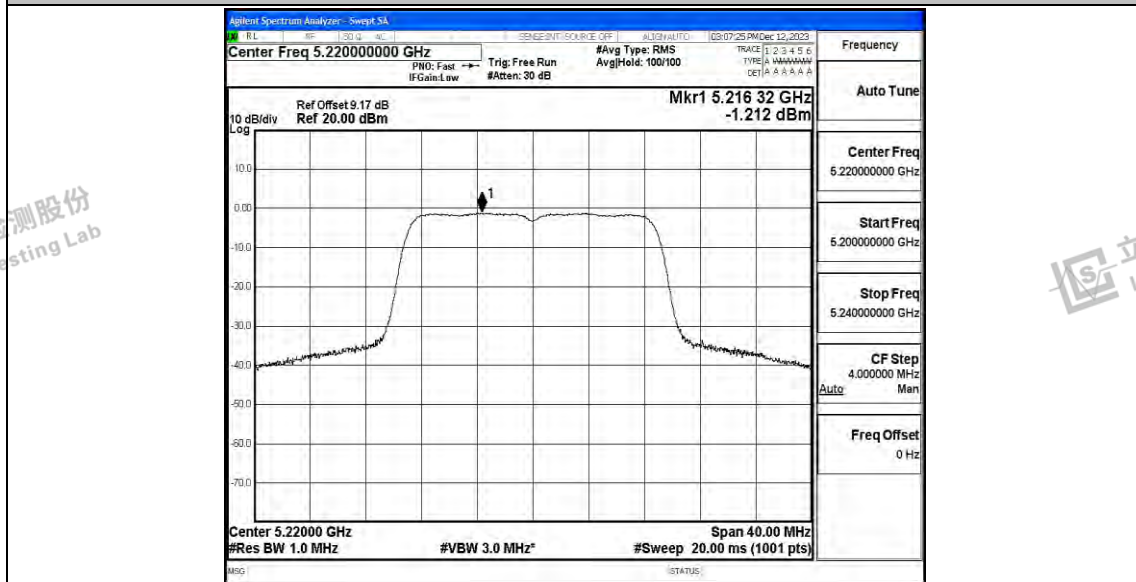


11AC20SISO_Ant1_5180



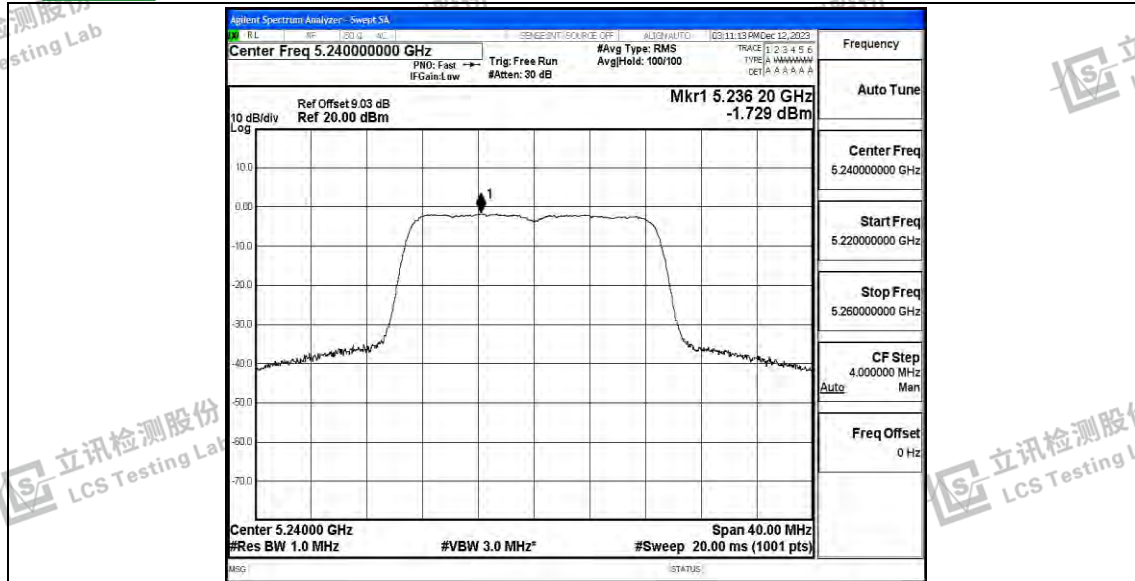


11AC20SISO_Ant1_5220

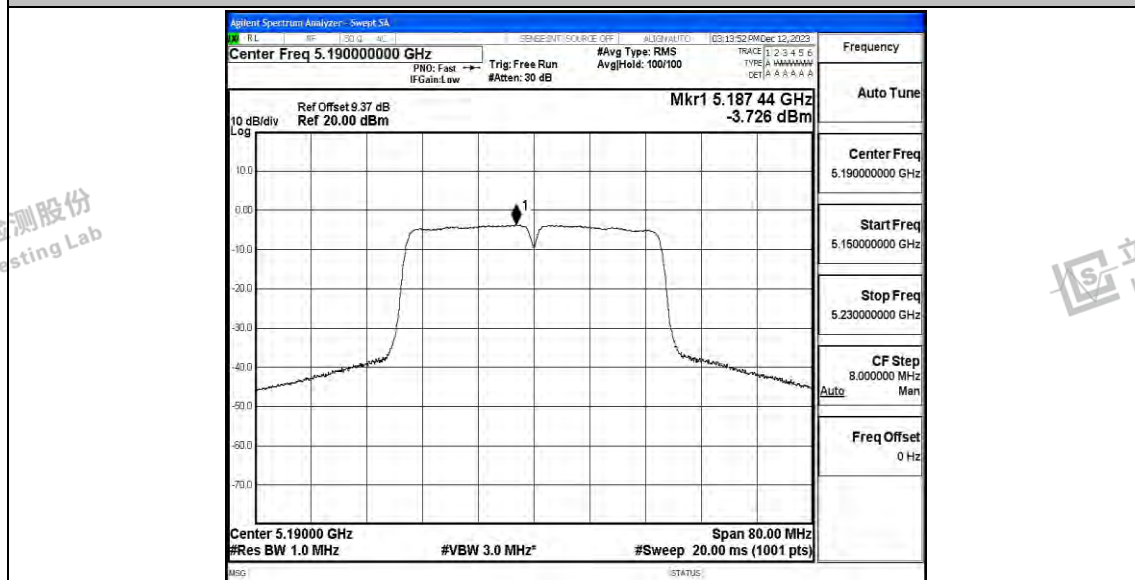


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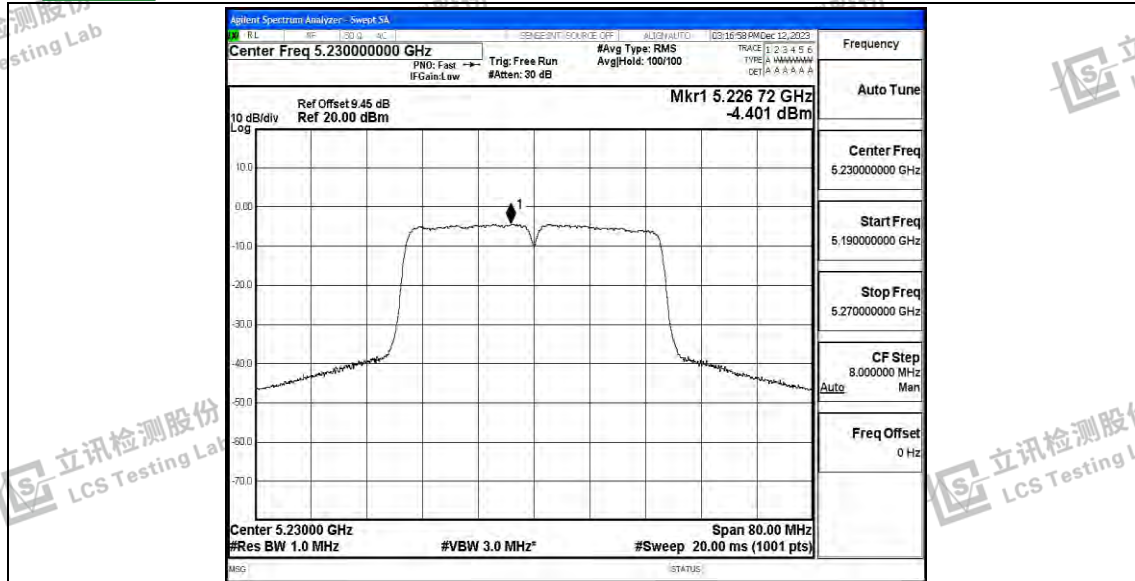


11AC40SISO_Ant1_5190

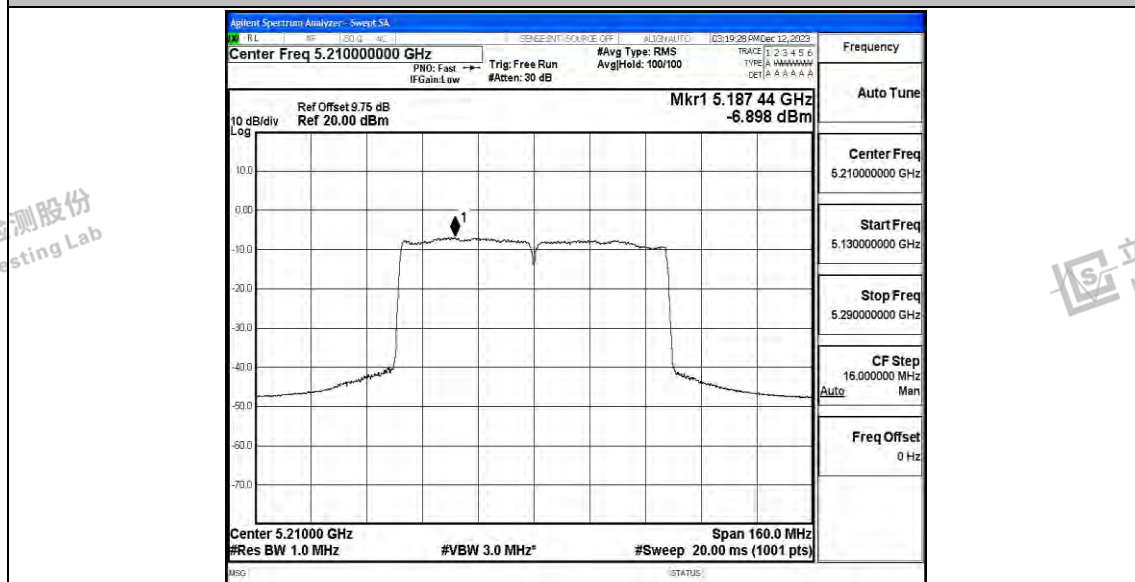


11AC40SISO_Ant1_5230





11AC80SISO_Ant1_5210





D.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	Ant0	Low	5180	AV	4500.000	-57.45	≤-41.20	37.75	≤54	PASS
				AV	5149.600	-44.68	≤-41.20	50.52	≤54	PASS
				AV	5150.000	-44.06	≤-41.20	51.14	≤54	PASS
				Peak	4500.000	-51.39	≤-21.20	43.81	≤74	PASS
				Peak	5148.200	-34.03	≤-21.20	61.17	≤74	PASS
				Peak	5150.000	-34.37	≤-21.20	60.83	≤74	PASS
		High	5240	AV	5350.000	-55.33	≤-41.20	39.87	≤54	PASS
				AV	5351.280	-55.32	≤-41.20	39.88	≤54	PASS
				AV	5460.000	-56.4	≤-41.20	38.80	≤54	PASS
				Peak	5350.000	-47.85	≤-21.20	47.35	≤74	PASS
				Peak	5424.480	-46.89	≤-21.20	48.31	≤74	PASS
11N20SIS O	Ant0	Low	5180	AV	4500.000	-57.52	≤-41.20	37.68	≤54	PASS
				AV	5149.600	-42.66	≤-41.20	52.54	≤54	PASS
				AV	5150.000	-42.03	≤-41.20	53.17	≤54	PASS
				Peak	4500.000	-50.1	≤-21.20	45.10	≤74	PASS
				Peak	5149.600	-33.96	≤-21.20	61.24	≤74	PASS
				Peak	5150.000	-32.52	≤-21.20	62.68	≤74	PASS
		High	5240	AV	5350.000	-55.4	≤-41.20	39.80	≤54	PASS
				AV	5352.000	-55.19	≤-41.20	40.01	≤54	PASS
				AV	5460.000	-56.34	≤-41.20	38.86	≤54	PASS
				Peak	5350.000	-46.94	≤-21.20	48.26	≤74	PASS
				Peak	5438.400	-45.89	≤-21.20	49.31	≤74	PASS
11N40SIS O	Ant0	Low	5190	AV	4500.000	-57.17	≤-41.20	38.03	≤54	PASS
				AV	5149.600	-50.25	≤-41.20	44.95	≤54	PASS
				AV	5150.000	-48.85	≤-41.20	46.35	≤54	PASS
				Peak	4500.000	-51.82	≤-21.20	43.38	≤74	PASS
				Peak	5149.600	-39.66	≤-21.20	55.54	≤74	PASS
				Peak	5150.000	-43.37	≤-21.20	51.83	≤74	PASS
		High	5230	AV	5350.000	-55.1	≤-41.20	40.10	≤54	PASS
				AV	5351.580	-55.05	≤-41.20	40.15	≤54	PASS
				AV	5460.000	-55.85	≤-41.20	39.35	≤54	PASS
				Peak	5350.000	-48.82	≤-21.20	46.38	≤74	PASS
				Peak	5422.820	-46.58	≤-21.20	48.62	≤74	PASS



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11AC20SI SO	Ant0	Low	5180	Peak	5460.000	-49.35	≤-21.20	45.85	≤74	PASS
				AV	4500.000	-57.47	≤-41.20	37.73	≤54	PASS
				AV	5149.600	-42.18	≤-41.20	53.02	≤54	PASS
				AV	5150.000	-41.89	≤-41.20	53.31	≤54	PASS
				Peak	4500.000	-50.11	≤-21.20	45.09	≤74	PASS
				Peak	5146.100	-28.46	≤-21.20	66.74	≤74	PASS
				Peak	5150.000	-31.95	≤-21.20	63.25	≤74	PASS
		High	5240	AV	5350.000	-55.42	≤-41.20	39.78	≤54	PASS
				AV	5350.800	-55.25	≤-41.20	39.95	≤54	PASS
				AV	5460.000	-56.39	≤-41.20	38.81	≤54	PASS
				Peak	5350.000	-49.8	≤-21.20	45.40	≤74	PASS
				Peak	5405.760	-46.49	≤-21.20	48.71	≤74	PASS
				Peak	5460.000	-49.97	≤-21.20	45.23	≤74	PASS
11AC40SI SO	Ant0	Low	5190	AV	4500.000	-57.19	≤-41.20	38.01	≤54	PASS
				AV	5148.900	-50.01	≤-41.20	45.19	≤54	PASS
				AV	5150.000	-50.2	≤-41.20	45.00	≤54	PASS
				Peak	4500.000	-49.73	≤-21.20	45.47	≤74	PASS
				Peak	5148.200	-40.73	≤-21.20	54.47	≤74	PASS
				Peak	5150.000	-41.45	≤-21.20	53.75	≤74	PASS
		High	5230	AV	5350.000	-55.21	≤-41.20	39.99	≤54	PASS
				AV	5350.020	-55.21	≤-41.20	39.99	≤54	PASS
				AV	5460.000	-55.97	≤-41.20	39.23	≤54	PASS
				Peak	5350.000	-45.76	≤-21.20	49.44	≤74	PASS
				Peak	5352.100	-44.36	≤-21.20	50.84	≤74	PASS
				Peak	5460.000	-50.2	≤-21.20	45.00	≤74	PASS
11AC80SI SO	Ant0	Low	5210	AV	4500.000	-56.85	≤-41.20	38.35	≤54	PASS
				AV	5149.500	-49.64	≤-41.20	45.56	≤54	PASS
				AV	5150.000	-49.97	≤-41.20	45.23	≤54	PASS
				Peak	4500.000	-51.07	≤-21.20	44.13	≤74	PASS
				Peak	5141.250	-40.29	≤-21.20	54.91	≤74	PASS
				Peak	5150.000	-42.08	≤-21.20	53.12	≤74	PASS
		High	5210	AV	5350.000	-53.9	≤-41.20	41.30	≤54	PASS
				AV	5350.520	-53.62	≤-41.20	41.58	≤54	PASS
				AV	5460.000	-55.59	≤-41.20	39.61	≤54	PASS
				Peak	5350.000	-48.09	≤-21.20	47.11	≤74	PASS
				Peak	5351.920	-45.05	≤-21.20	50.15	≤74	PASS
				Peak	5460.000	-50.23	≤-21.20	44.97	≤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



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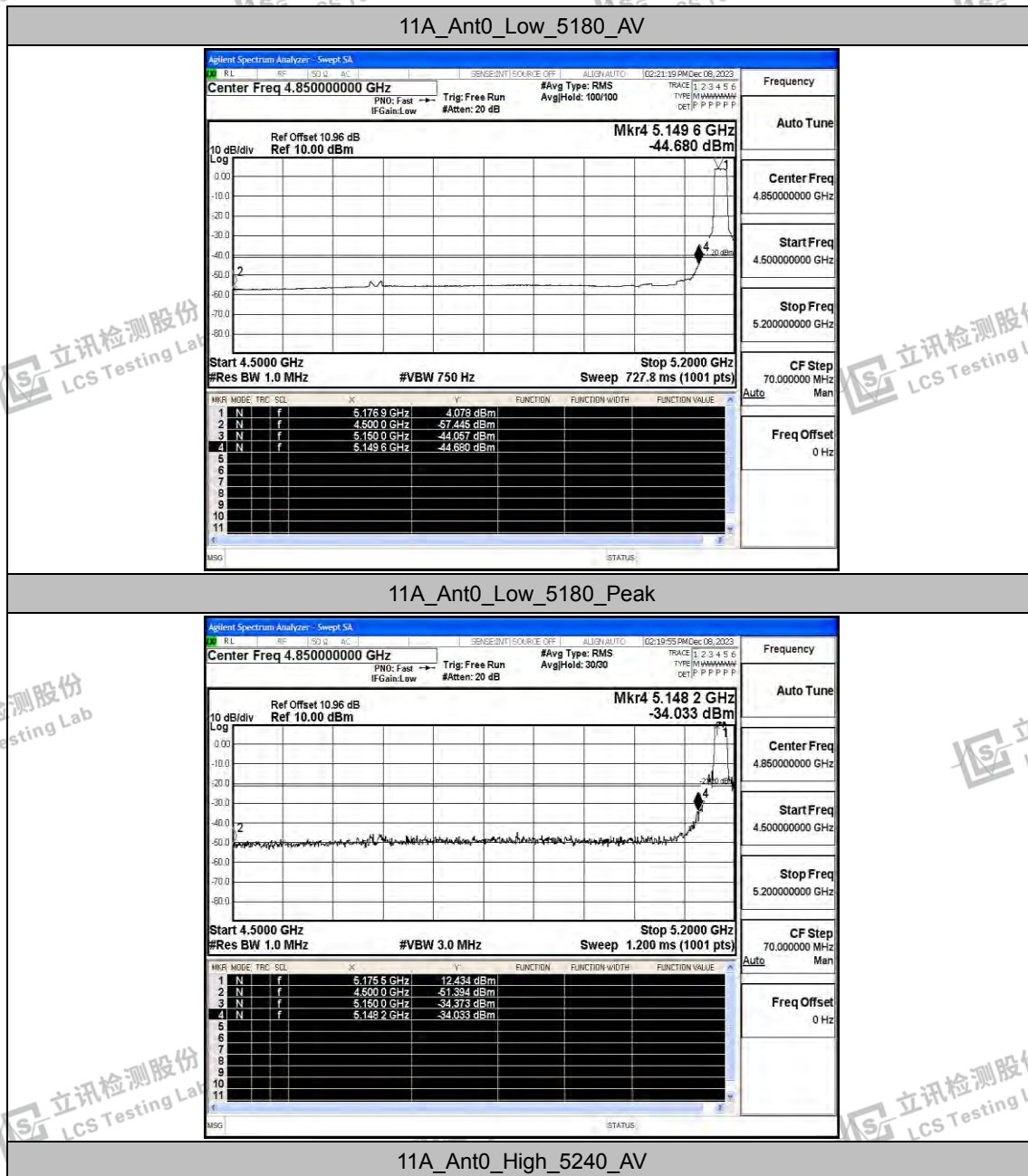


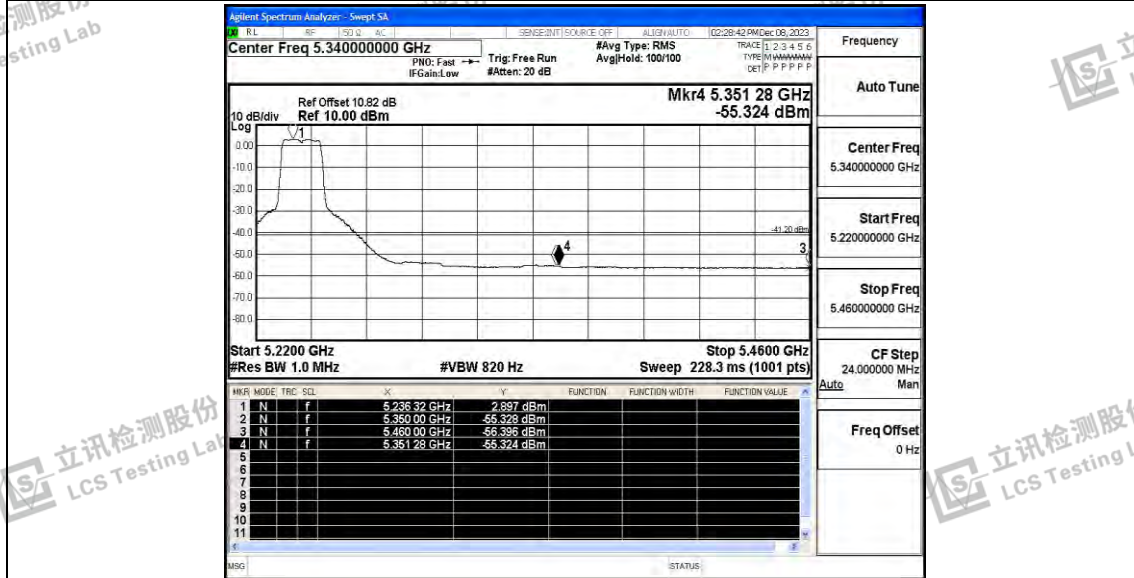
average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



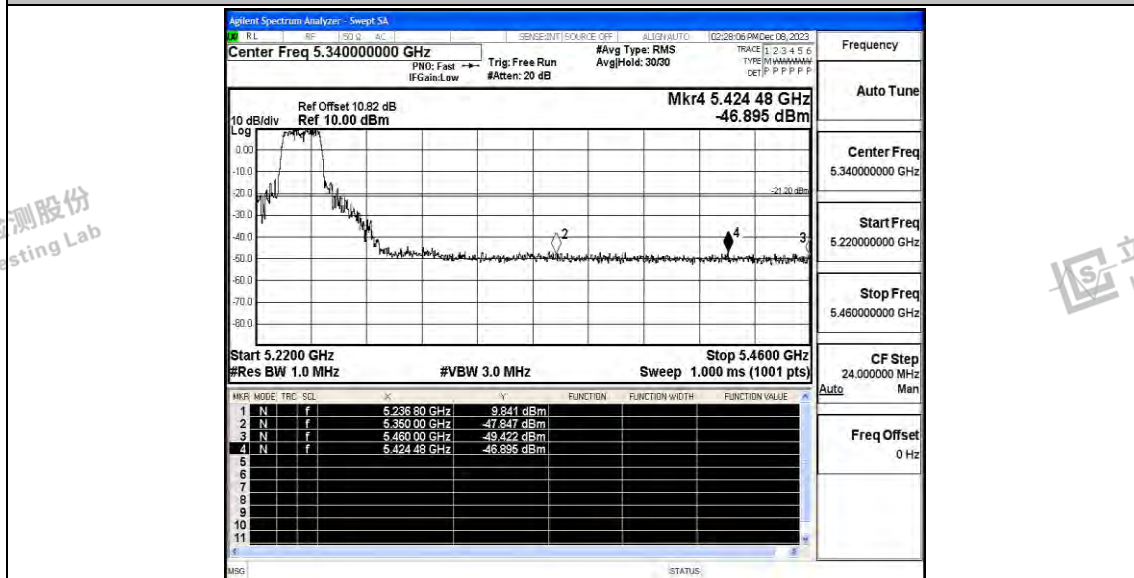


Test Graphs



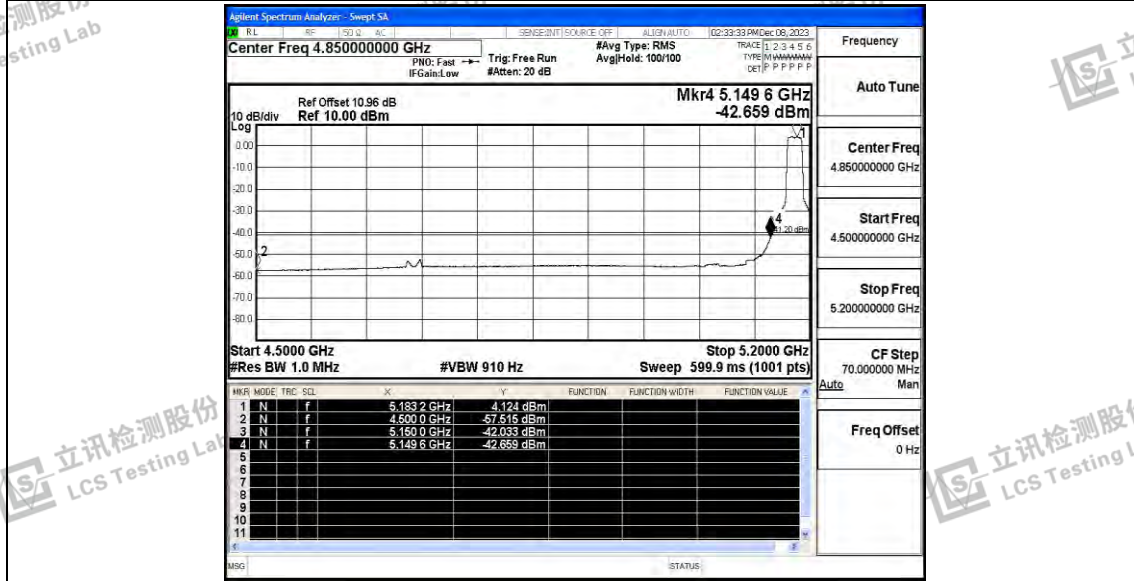


11A_Ant0_High_5240_Peak

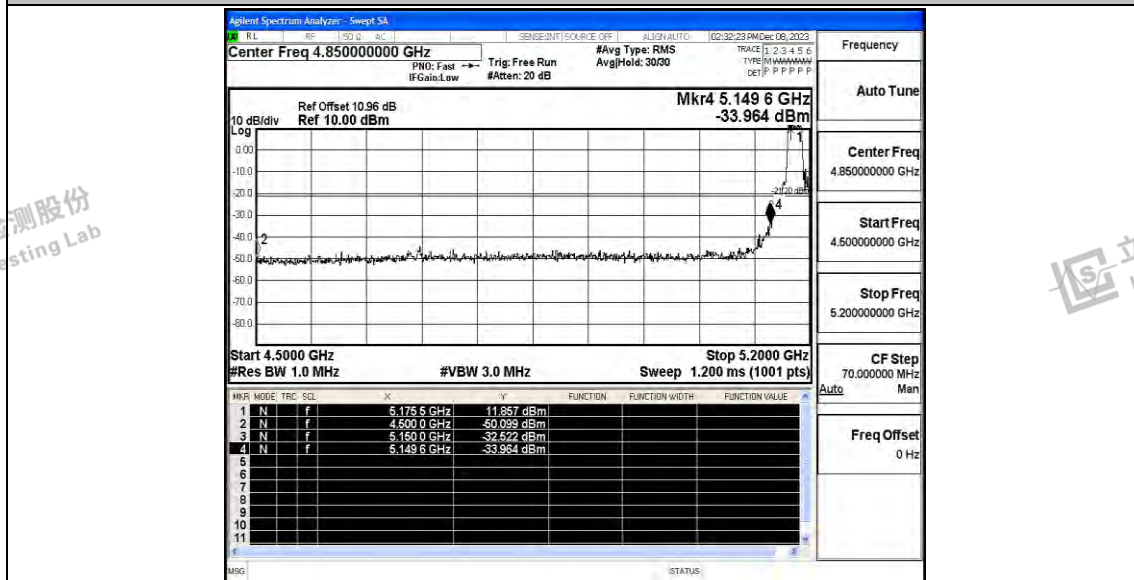


11N20SISO_Ant0_Low_5180_AV





11N20SISO_Ant0_Low_5180_Peak



11N20SISO_Ant0_High_5240_AV

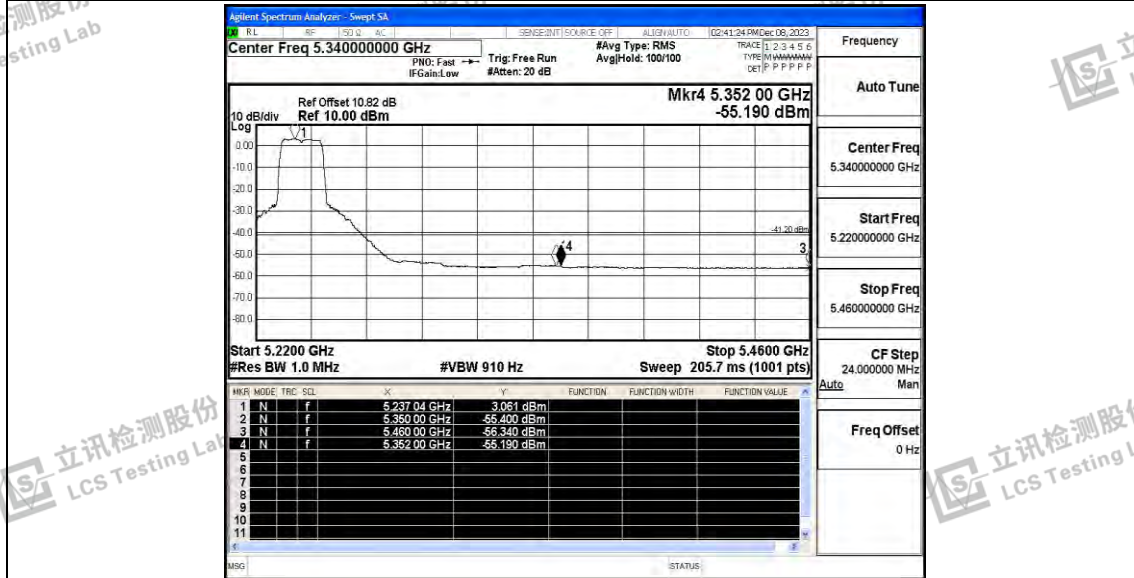


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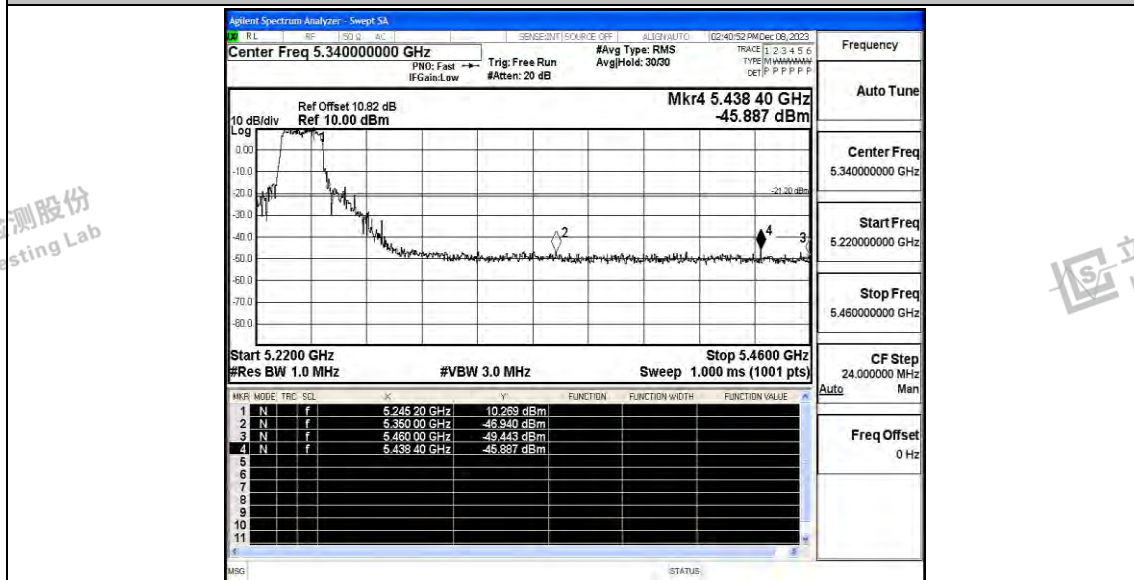
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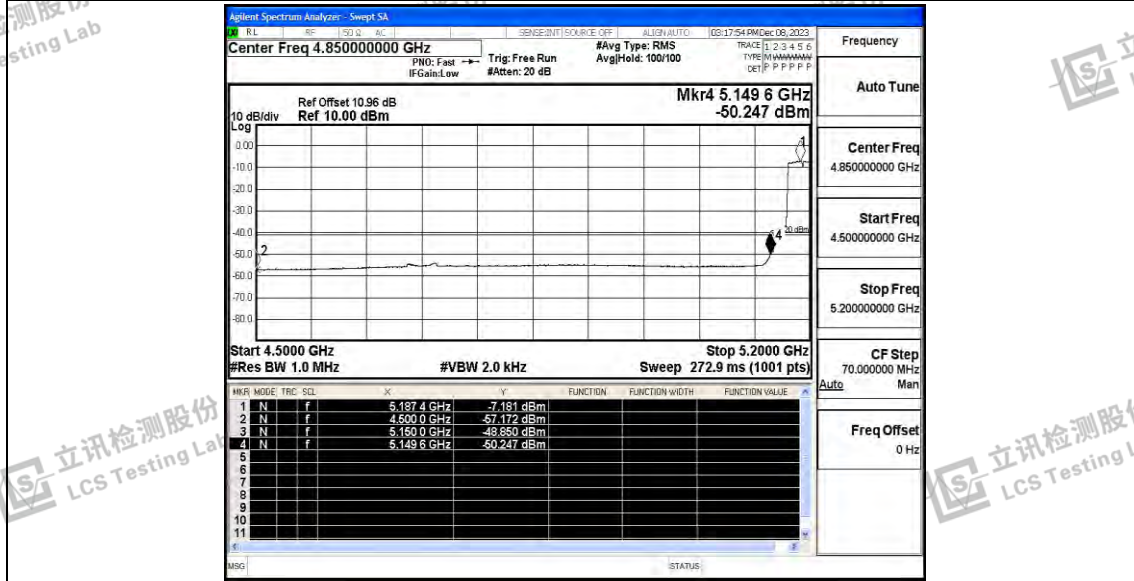


11N20SISO_Ant0_High_5240_Peak

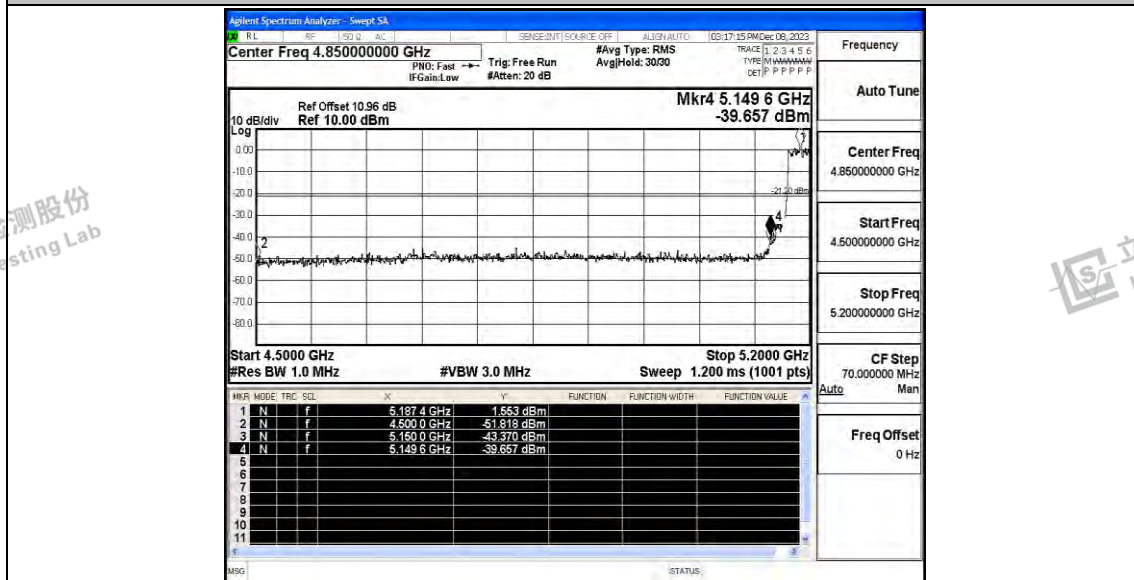


11N40SISO_Ant0_Low_5190_AV



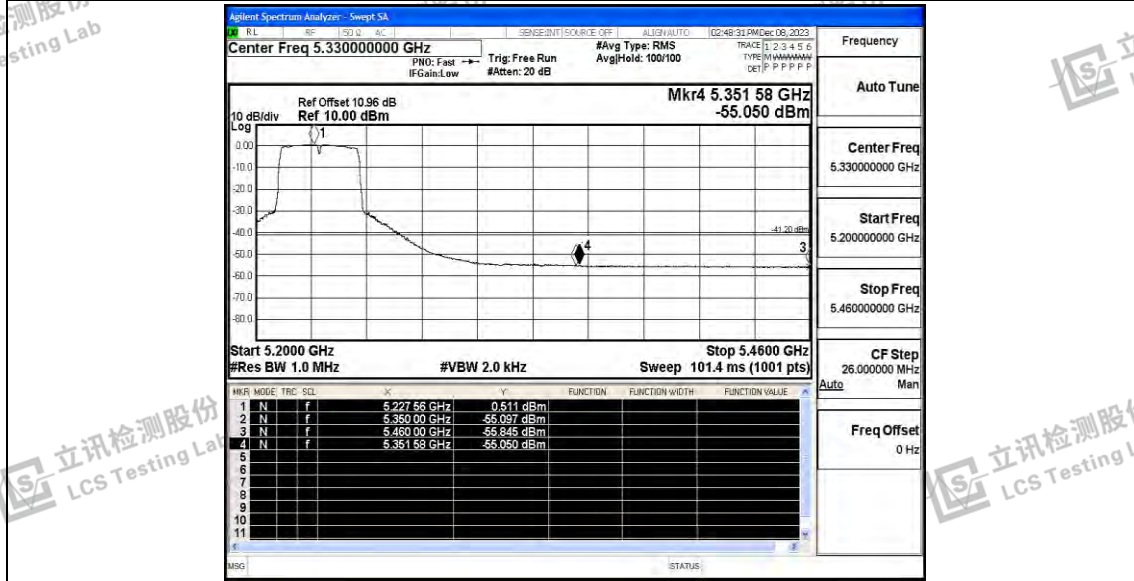


11N40SISO_Ant0_Low_5190_Peak

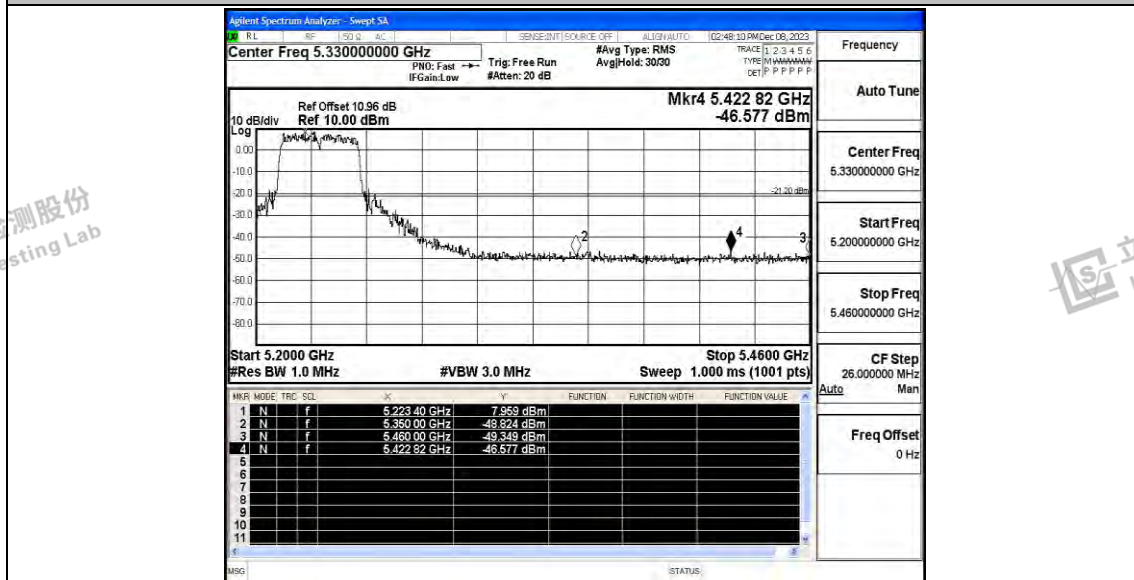


11N40SISO_Ant0_High_5230_AV





11N40SISO_Ant0_High_5230_Peak



11AC20SISO_Ant0_Low_5180_AV

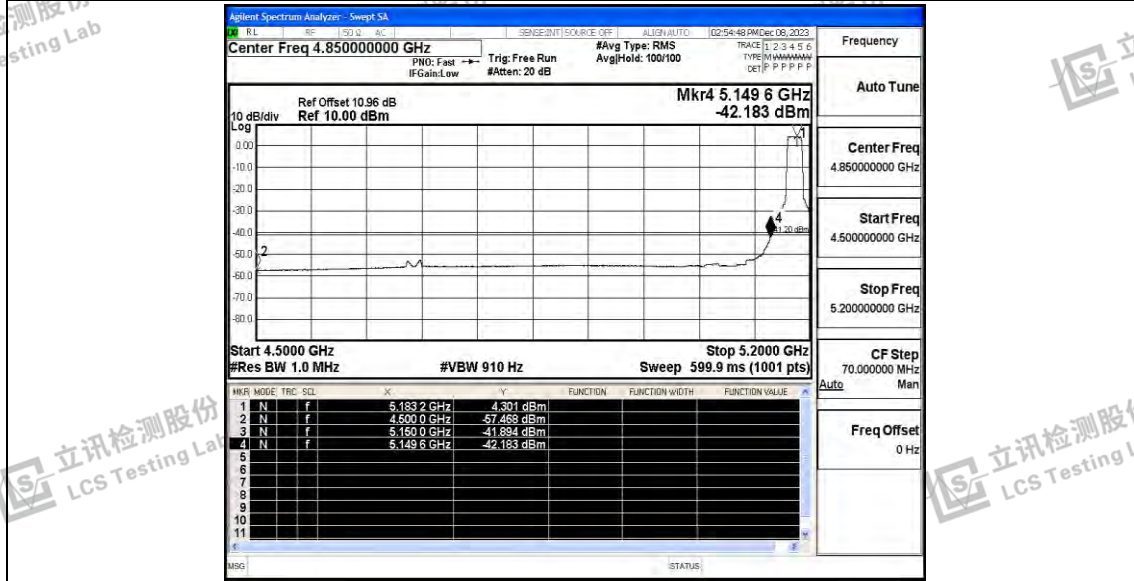


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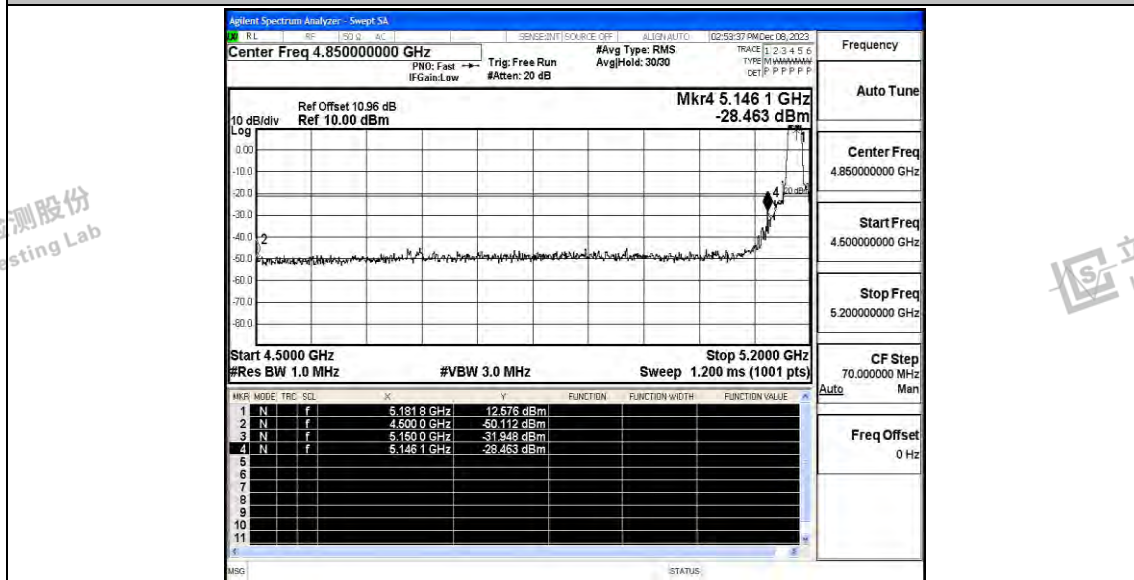
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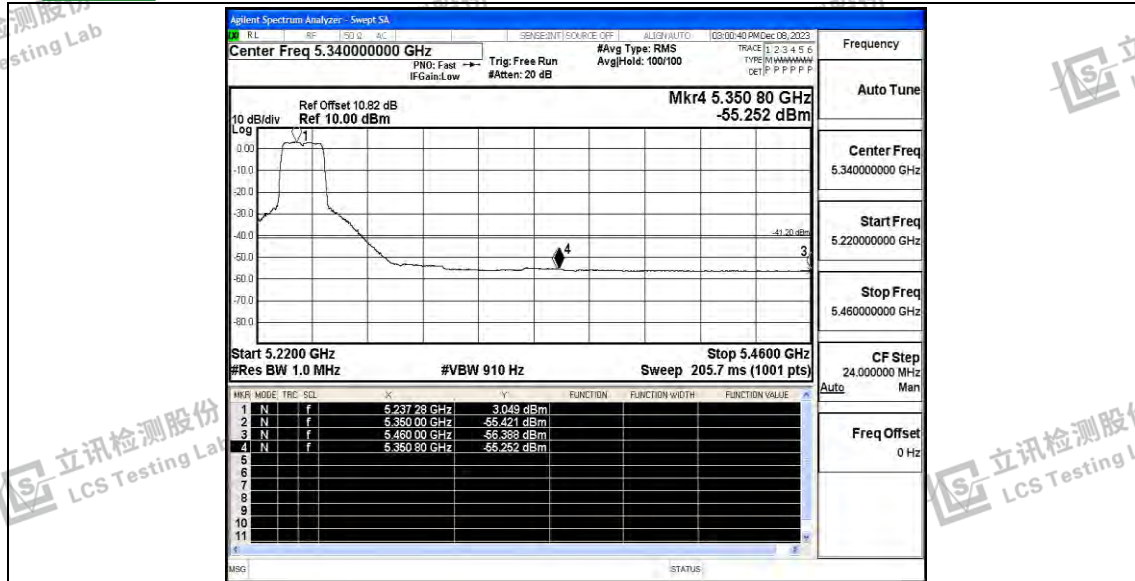


11AC20SISO_Ant0_Low_5180_Peak

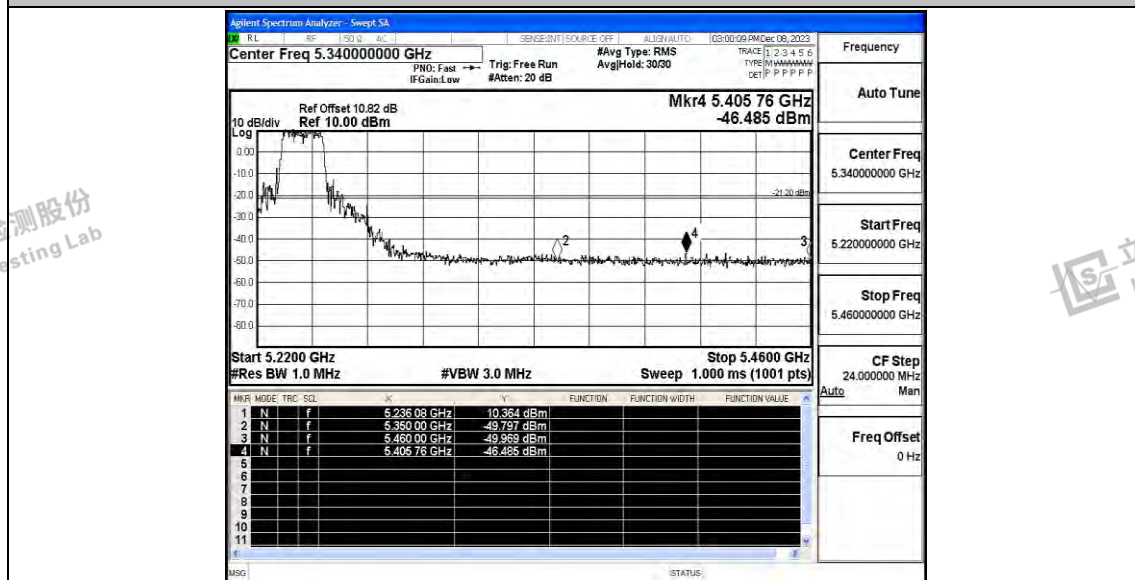


11AC20SISO_Ant0_High_5240_AV





11AC20SISO_Ant0_High_5240_Peak



11AC40SISO_Ant0_Low_5190_AV

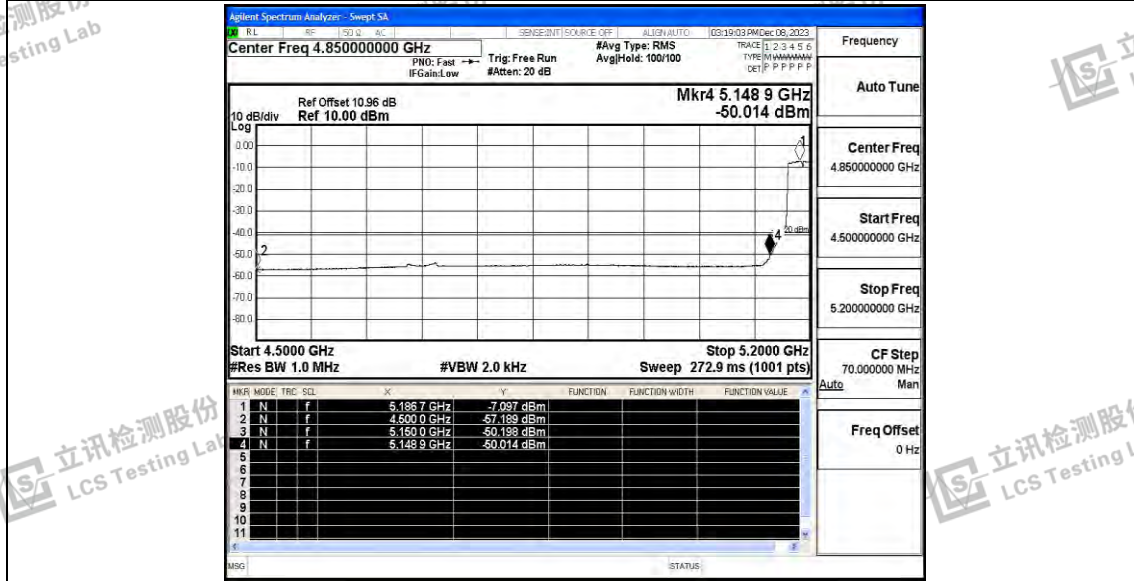


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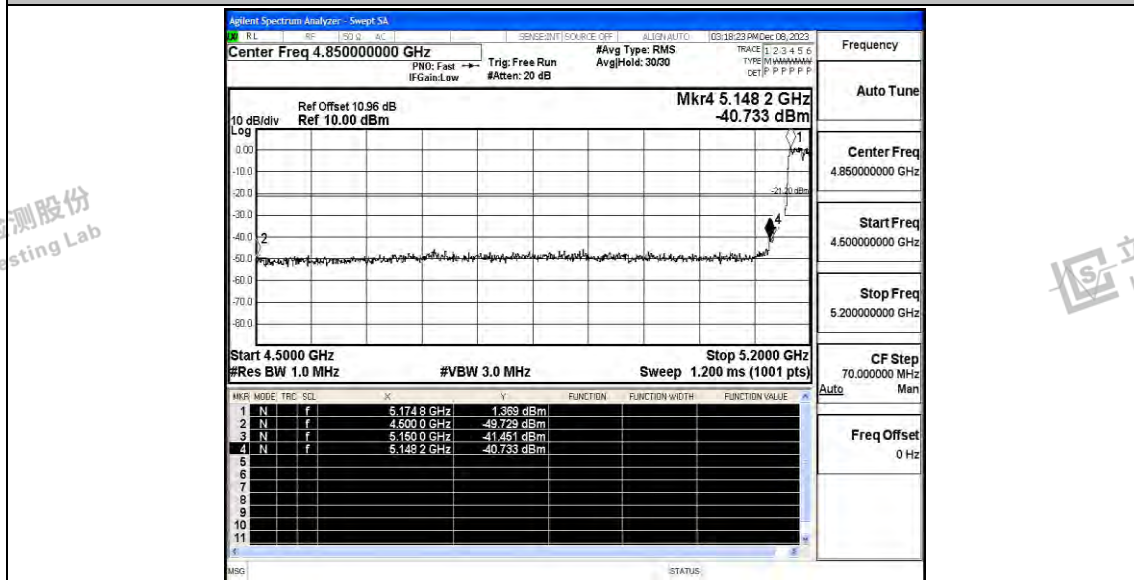
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11AC40SISO_Ant0_Low_5190_Peak



11AC40SISO_Ant0_High_5230_AV

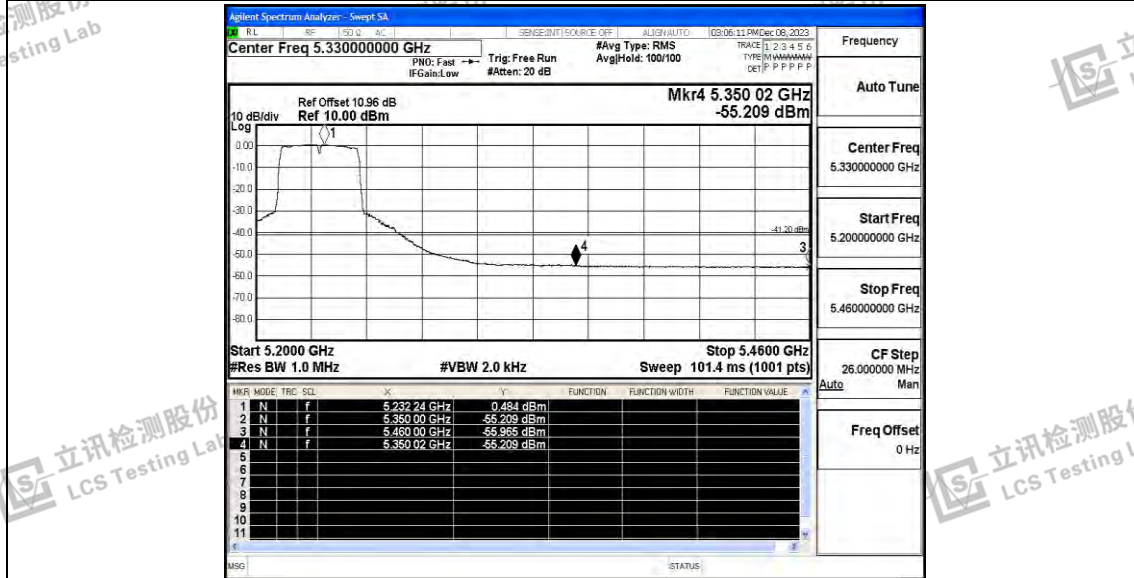


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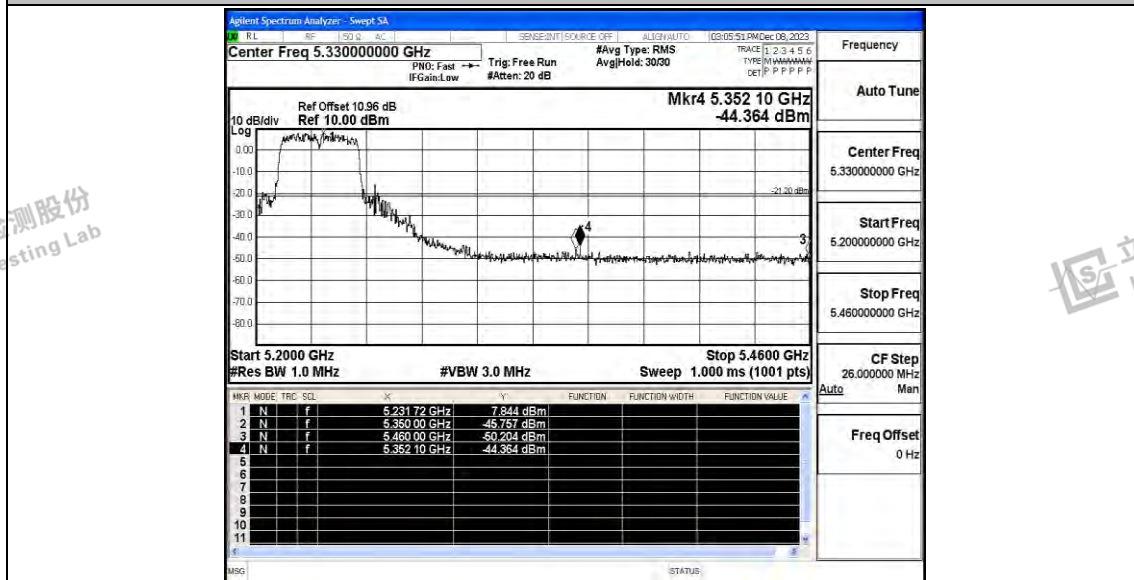
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11AC40SISO_Ant0_High_5230_Peak



11AC80SISO_Ant0_Low_5210_AV

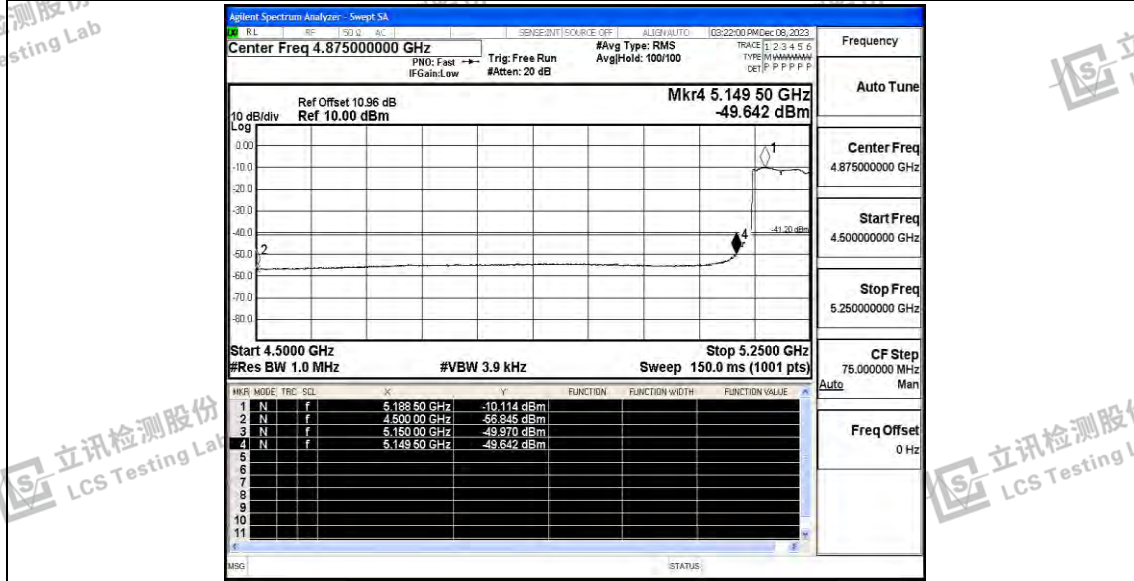


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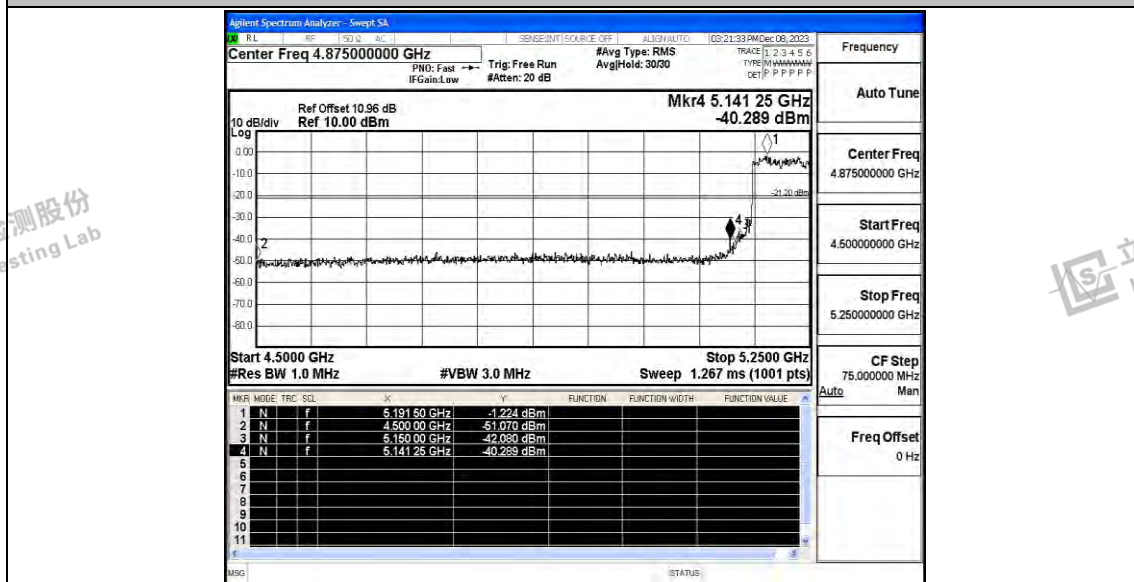
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11AC80SISO_Ant0_Low_5210_Peak



11AC80SISO_Ant0_High_5210_AV

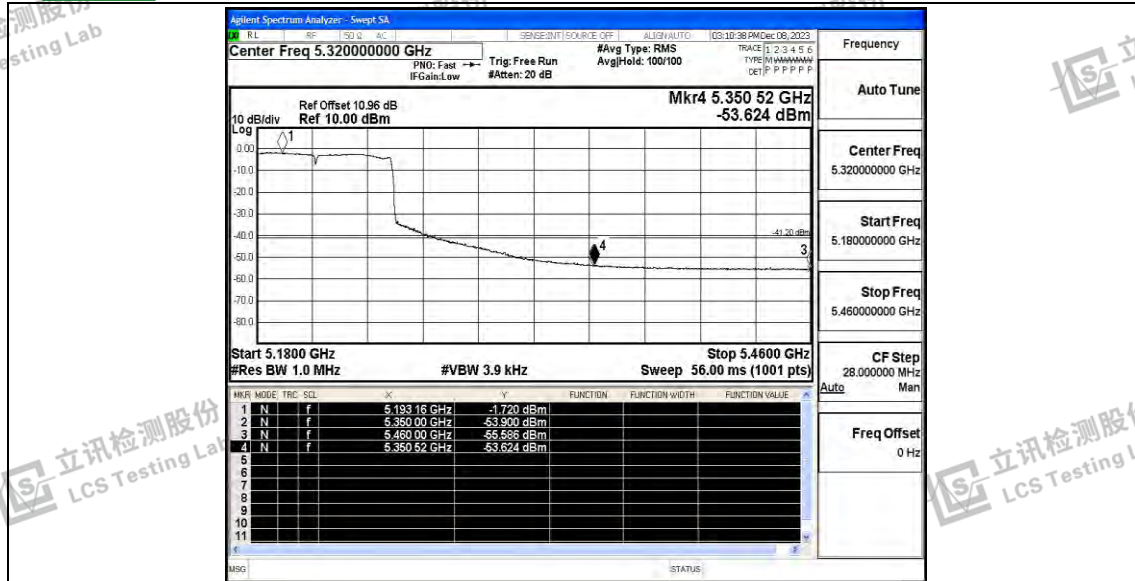


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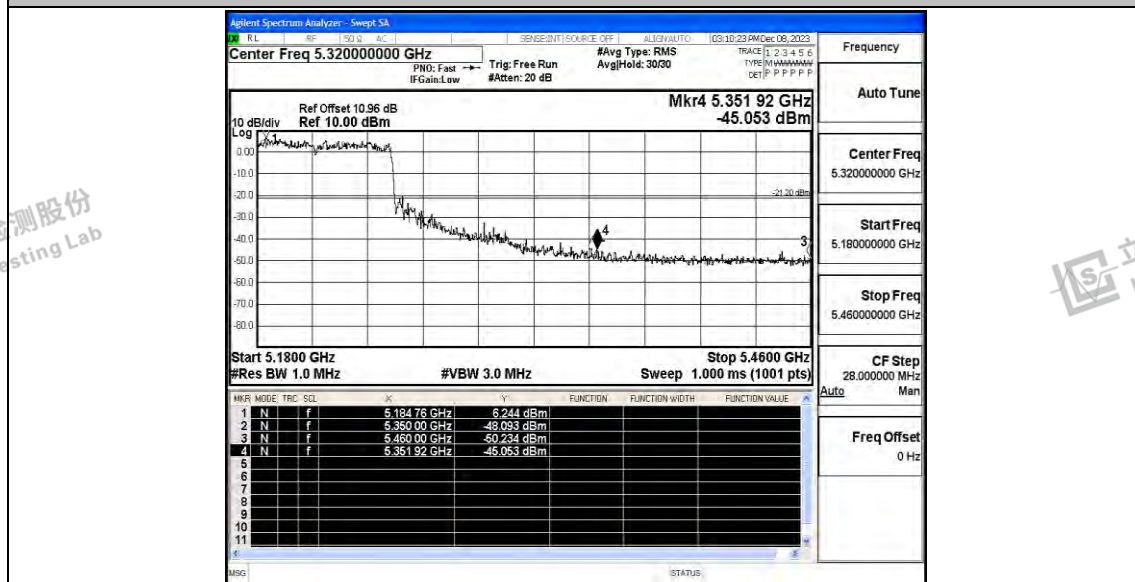
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11AC80SISO_Ant0_High_5210_Peak





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	5180	AV	4500.000	-57.18	≤-41.20	38.02	≤54	PASS
				AV	5149.600	-44.82	≤-41.20	50.38	≤54	PASS
				AV	5150.000	-44.42	≤-41.20	50.78	≤54	PASS
				Peak	4500.000	-49.6	≤-21.20	45.60	≤74	PASS
				Peak	5148.200	-36.14	≤-21.20	59.06	≤74	PASS
				Peak	5150.000	-34.89	≤-21.20	60.31	≤74	PASS
		High	5240	AV	5350.000	-55.2	≤-41.20	40.00	≤54	PASS
				AV	5351.280	-55.05	≤-41.20	40.15	≤54	PASS
				AV	5460.000	-56.35	≤-41.20	38.85	≤54	PASS
				Peak	5350.000	-48.79	≤-21.20	46.41	≤74	PASS
				Peak	5410.320	-46.95	≤-21.20	48.25	≤74	PASS
				Peak	5460.000	-48.94	≤-21.20	46.26	≤74	PASS
11N20SIS O	Ant1	Low	5180	AV	4500.000	-57.42	≤-41.20	37.78	≤54	PASS
				AV	5149.600	-42.99	≤-41.20	52.21	≤54	PASS
				AV	5150.000	-43.04	≤-41.20	52.16	≤54	PASS
				Peak	4500.000	-51.7	≤-21.20	43.50	≤74	PASS
				Peak	5148.900	-32.87	≤-21.20	62.33	≤74	PASS
				Peak	5150.000	-34.58	≤-21.20	60.62	≤74	PASS
		High	5240	AV	5350.000	-55.24	≤-41.20	39.96	≤54	PASS
				AV	5350.560	-55.23	≤-41.20	39.97	≤54	PASS
				AV	5460.000	-56.25	≤-41.20	38.95	≤54	PASS
				Peak	5350.000	-49.43	≤-21.20	45.77	≤74	PASS
				Peak	5381.760	-47.09	≤-21.20	48.11	≤74	PASS
				Peak	5460.000	-51.71	≤-21.20	43.49	≤74	PASS
11N40SIS O	Ant1	Low	5190	AV	4500.000	-57.07	≤-41.20	38.13	≤54	PASS
				AV	5149.600	-44.73	≤-41.20	50.47	≤54	PASS
				AV	5150.000	-44.17	≤-41.20	51.03	≤54	PASS
				Peak	4500.000	-49.83	≤-21.20	45.37	≤74	PASS
				Peak	5149.600	-36.36	≤-21.20	58.84	≤74	PASS
				Peak	5150.000	-37.26	≤-21.20	57.94	≤74	PASS
		High	5230	AV	5350.000	-55.36	≤-41.20	39.84	≤54	PASS
				AV	5350.540	-55.19	≤-41.20	40.01	≤54	PASS
				AV	5460.000	-55.8	≤-41.20	39.40	≤54	PASS
				Peak	5350.000	-50.13	≤-21.20	45.07	≤74	PASS
				Peak	5423.340	-47.1	≤-21.20	48.10	≤74	PASS
				Peak	5460.000	-49.18	≤-21.20	46.02	≤74	PASS





11AC20SI SO	Ant1	Low	5180	AV	4500.000	-57.39	≤-41.20	37.81	≤54	PASS
				AV	5149.600	-44.13	≤-41.20	51.07	≤54	PASS
				AV	5150.000	-44.01	≤-41.20	51.19	≤54	PASS
				Peak	4500.000	-51.97	≤-21.20	43.23	≤74	PASS
				Peak	5149.600	-36.31	≤-21.20	58.89	≤74	PASS
				Peak	5150.000	-33.28	≤-21.20	61.92	≤74	PASS
		High	5240	AV	5350.000	-55.89	≤-41.20	39.31	≤54	PASS
				AV	5350.320	-55.84	≤-41.20	39.36	≤54	PASS
				AV	5460.000	-56.58	≤-41.20	38.62	≤54	PASS
				Peak	5350.000	-49.21	≤-21.20	45.99	≤74	PASS
				Peak	5359.680	-45.7	≤-21.20	49.50	≤74	PASS
11AC40SI SO	Ant1	Low	5190	Peak	5460.000	-50.92	≤-21.20	44.28	≤74	PASS
				AV	4500.000	-57.12	≤-41.20	38.08	≤54	PASS
				AV	5149.600	-44.47	≤-41.20	50.73	≤54	PASS
				AV	5150.000	-44.09	≤-41.20	51.11	≤54	PASS
				Peak	4500.000	-51.56	≤-21.20	43.64	≤74	PASS
				Peak	5149.600	-34.47	≤-21.20	60.73	≤74	PASS
				Peak	5150.000	-35.53	≤-21.20	59.67	≤74	PASS
		High	5230	AV	5350.000	-55.66	≤-41.20	39.54	≤54	PASS
				AV	5371.080	-55.5	≤-41.20	39.70	≤54	PASS
				AV	5460.000	-56.09	≤-41.20	39.11	≤54	PASS
11AC80SI SO	Ant1	Low	5210	Peak	5350.000	-49.75	≤-21.20	45.45	≤74	PASS
				Peak	5402.540	-47.12	≤-21.20	48.08	≤74	PASS
				Peak	5460.000	-50.45	≤-21.20	44.75	≤74	PASS
				AV	4500.000	-56.88	≤-41.20	38.32	≤54	PASS
				AV	5149.500	-43.86	≤-41.20	51.34	≤54	PASS
		High	5210	AV	5150.000	-43.73	≤-41.20	51.47	≤54	PASS
				Peak	4500.000	-51.97	≤-21.20	43.23	≤74	PASS
				Peak	5149.500	-35.63	≤-21.20	59.57	≤74	PASS
				Peak	5150.000	-34.95	≤-21.20	60.25	≤74	PASS
				AV	5350.000	-55.02	≤-41.20	40.18	≤54	PASS
				AV	5355.560	-54.72	≤-41.20	40.48	≤54	PASS
				AV	5460.000	-55.67	≤-41.20	39.53	≤54	PASS
				Peak	5350.000	-49.34	≤-21.20	45.86	≤74	PASS
				Peak	5442.360	-46.43	≤-21.20	48.77	≤74	PASS
				Peak	5460.000	-48.94	≤-21.20	46.26	≤74	PASS

Note:

3. The Antenna Gain is compensated in the graph.

4. 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



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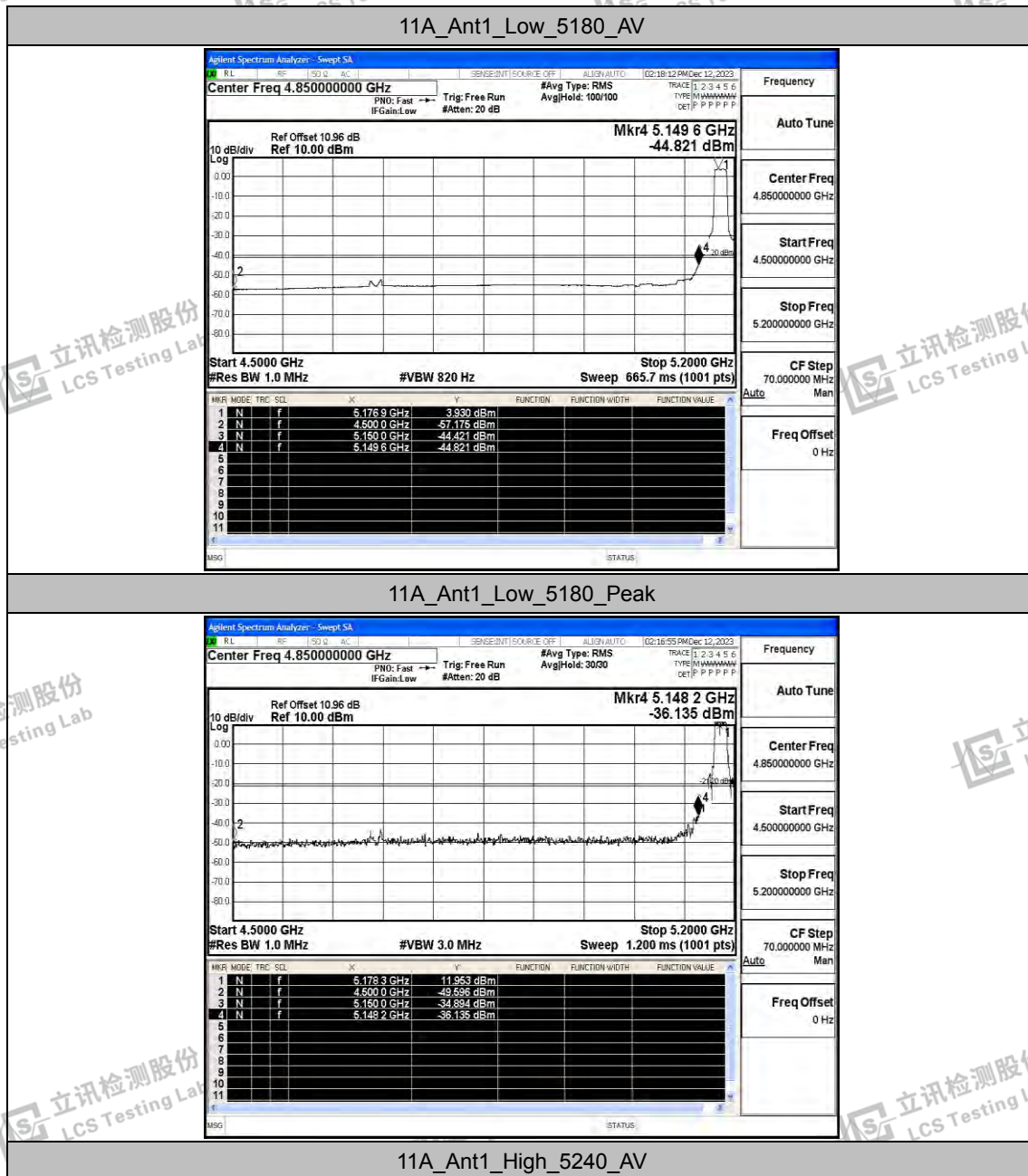


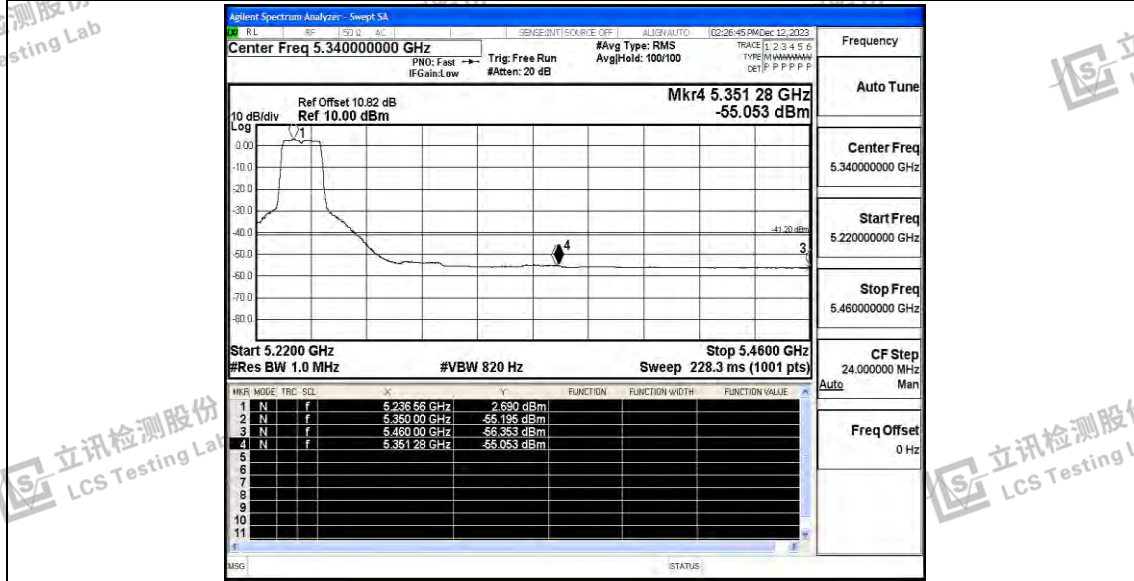
detector is 20dB above the limit of average detector in dBm.



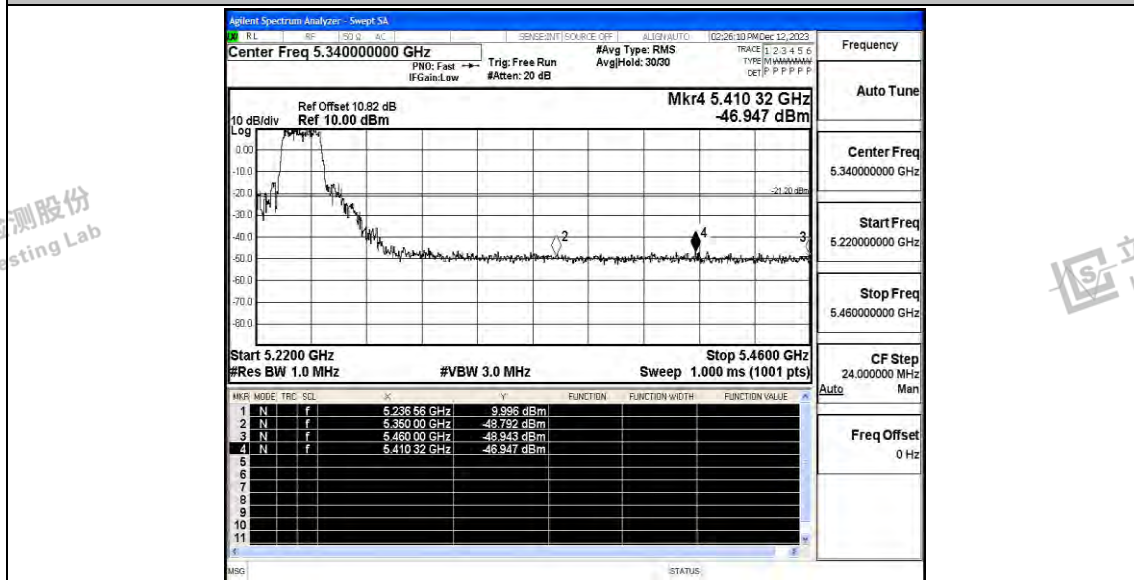


Test Graphs



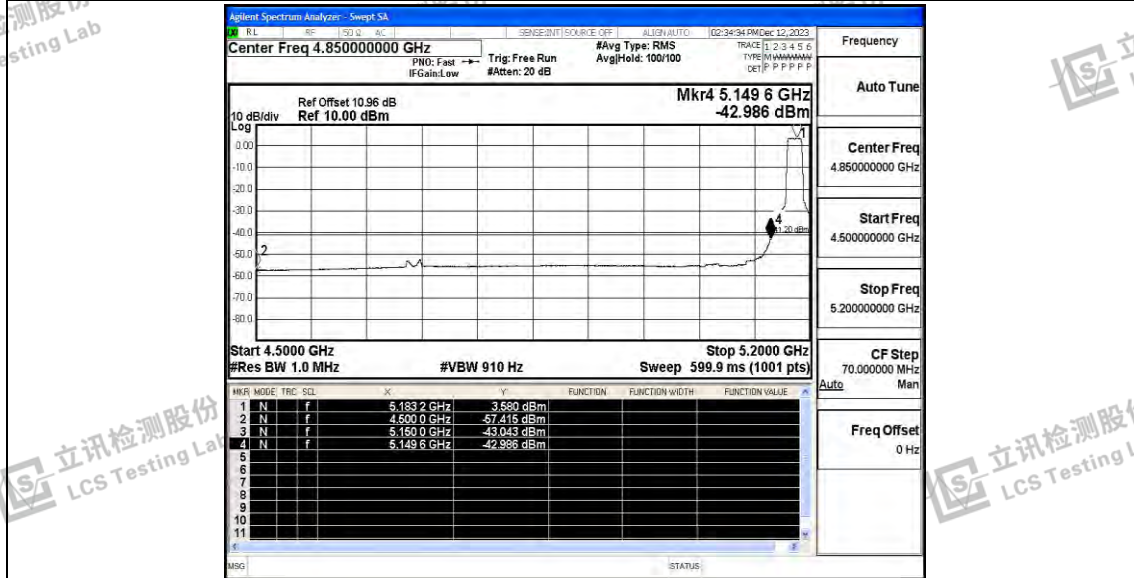


11A_Ant1_High_5240_Peak

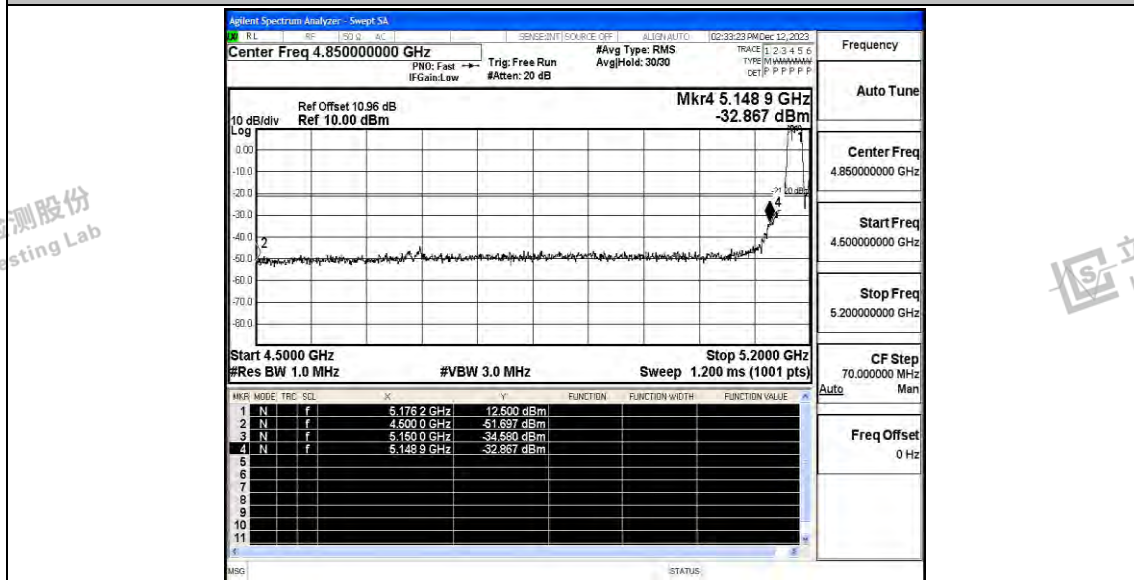


11N20SISO_Ant1_Low_5180_AV



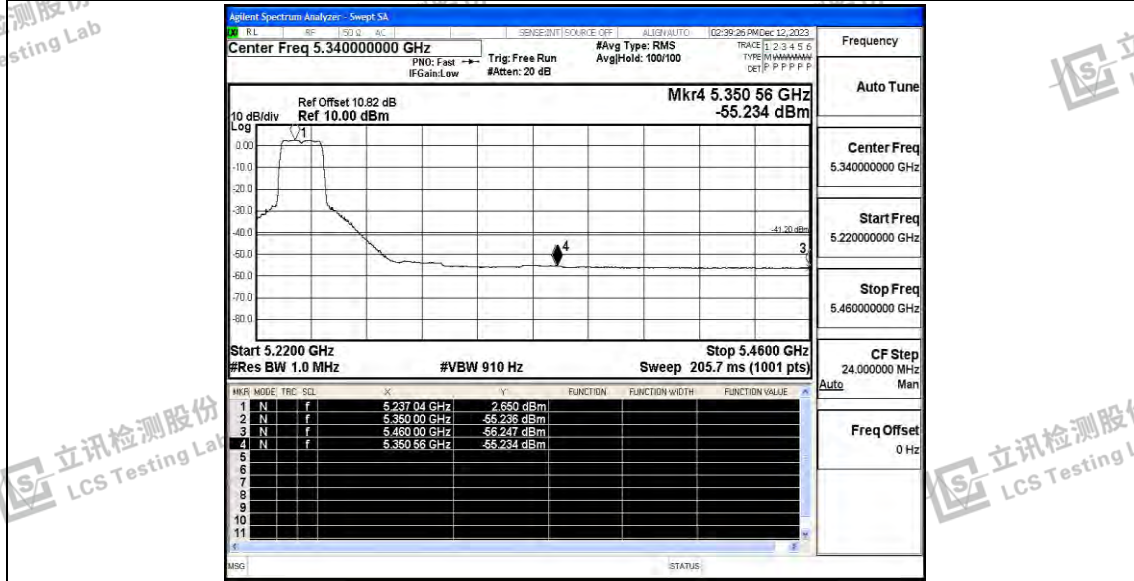


11N20SISO_Ant1_Low_5180_Peak

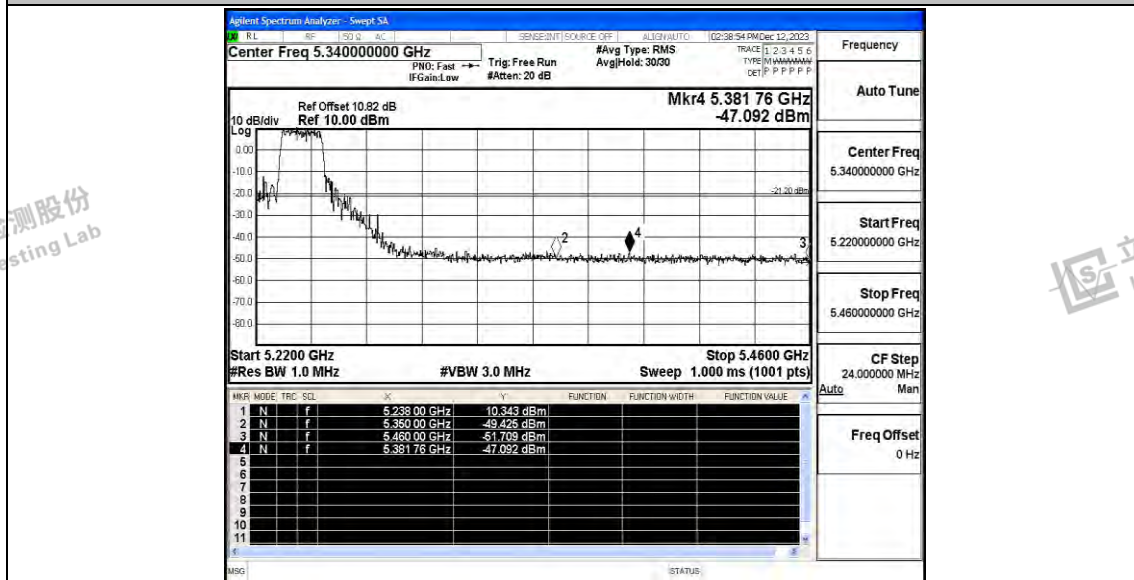


11N20SISO_Ant1_High_5240_AV





11N20SISO_Ant1_High_5240_Peak



11N40SISO_Ant1_Low_5190_AV

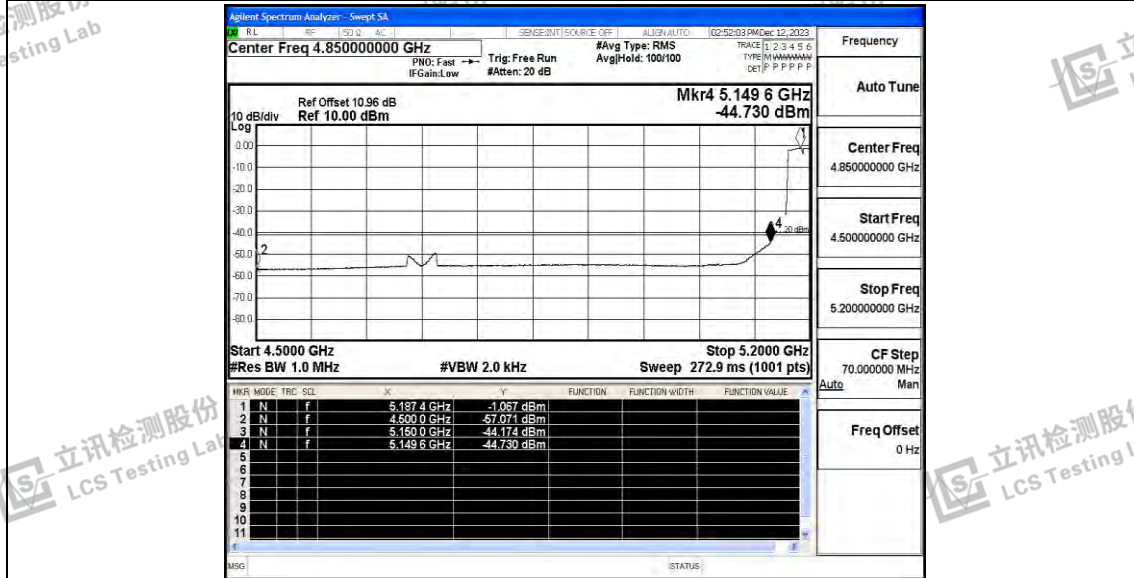


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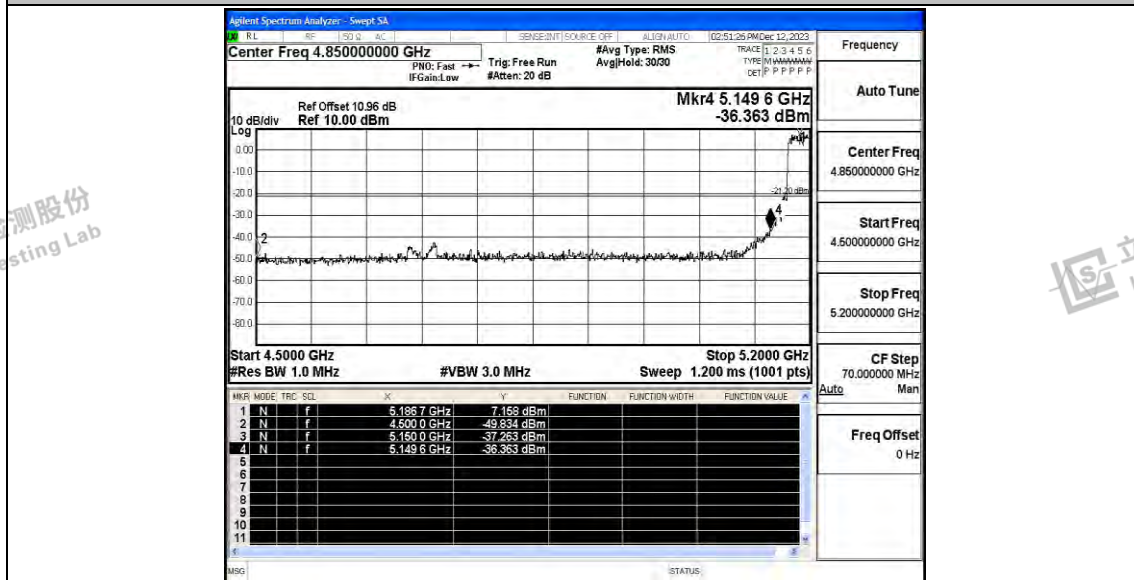
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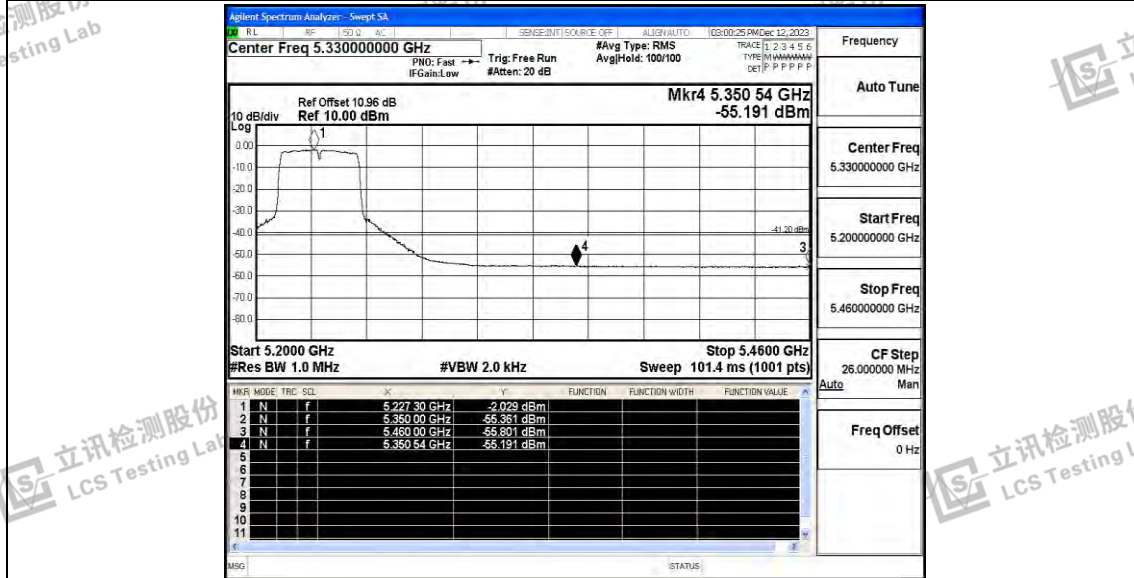


11N40SISO_Ant1_Low_5190_Peak

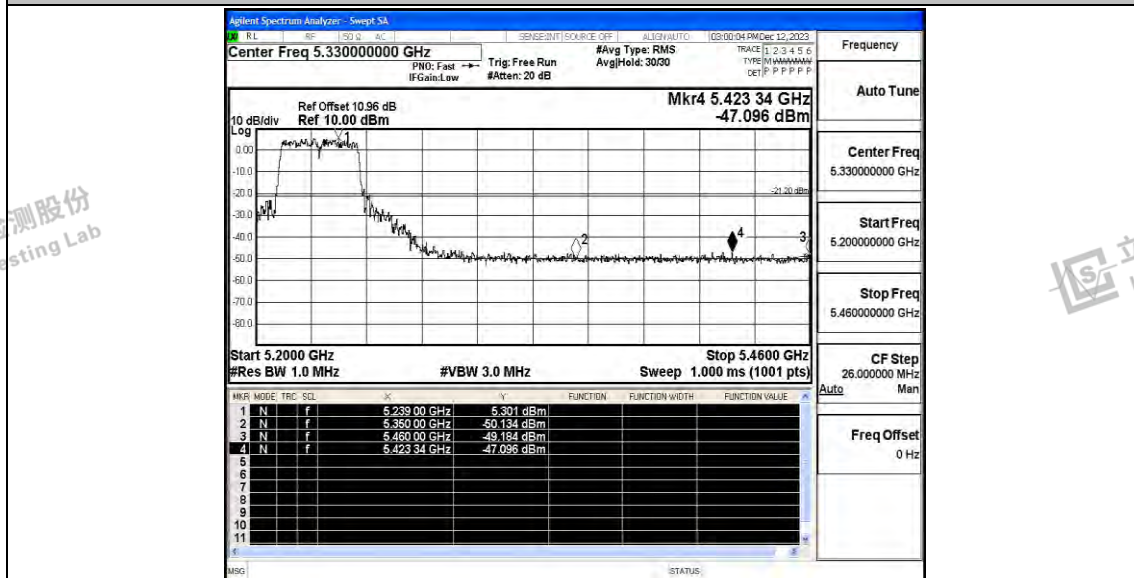


11N40SISO_Ant1_High_5230_AV





11N40SISO_Ant1_High_5230_Peak



11AC20SISO_Ant1_Low_5180_AV

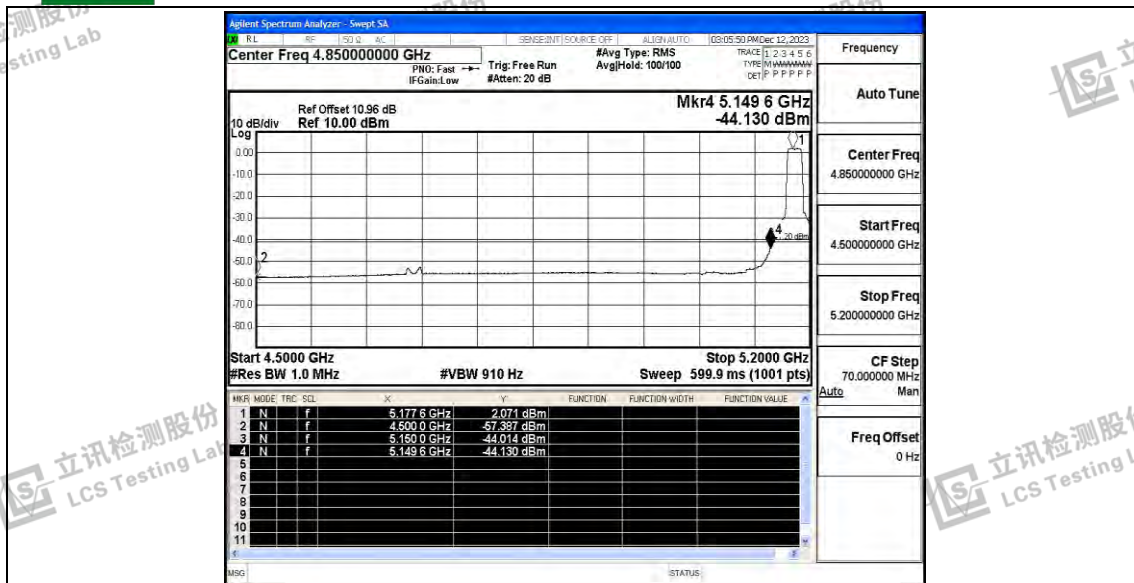


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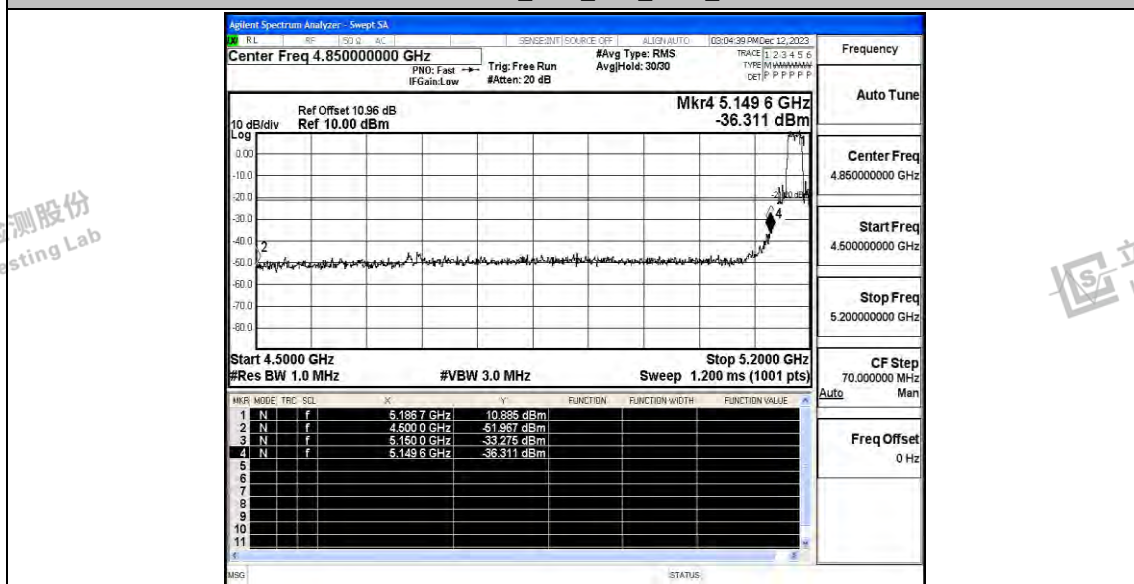
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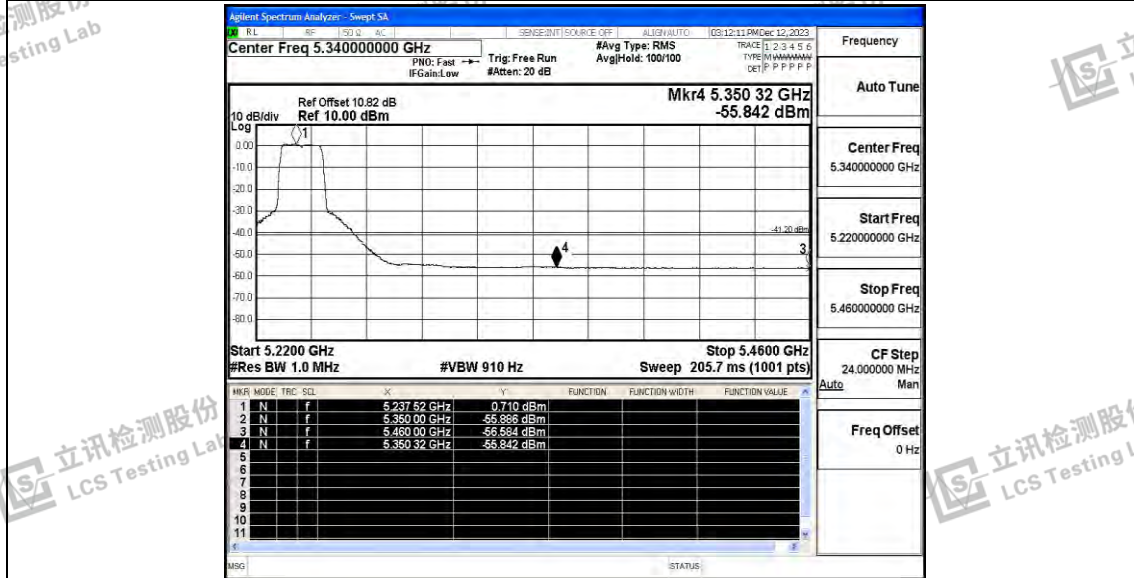


11AC20SISO_Ant1_Low_5180_Peak

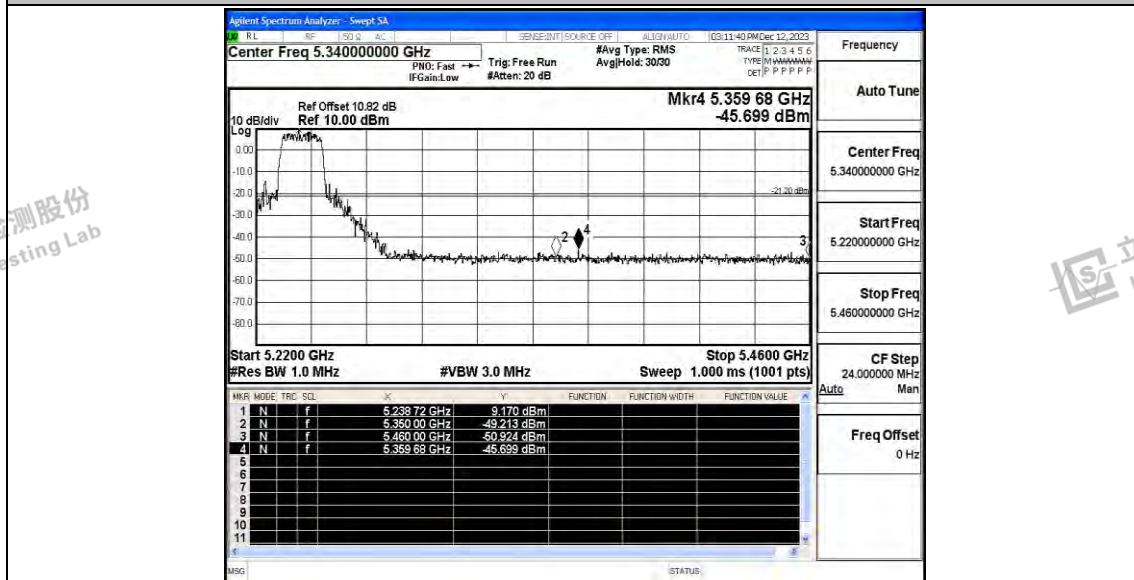


11AC20SISO_Ant1_High_5240_AV





11AC20SISO_Ant1_High_5240_Peak



11AC40SISO_Ant1_Low_5190_AV

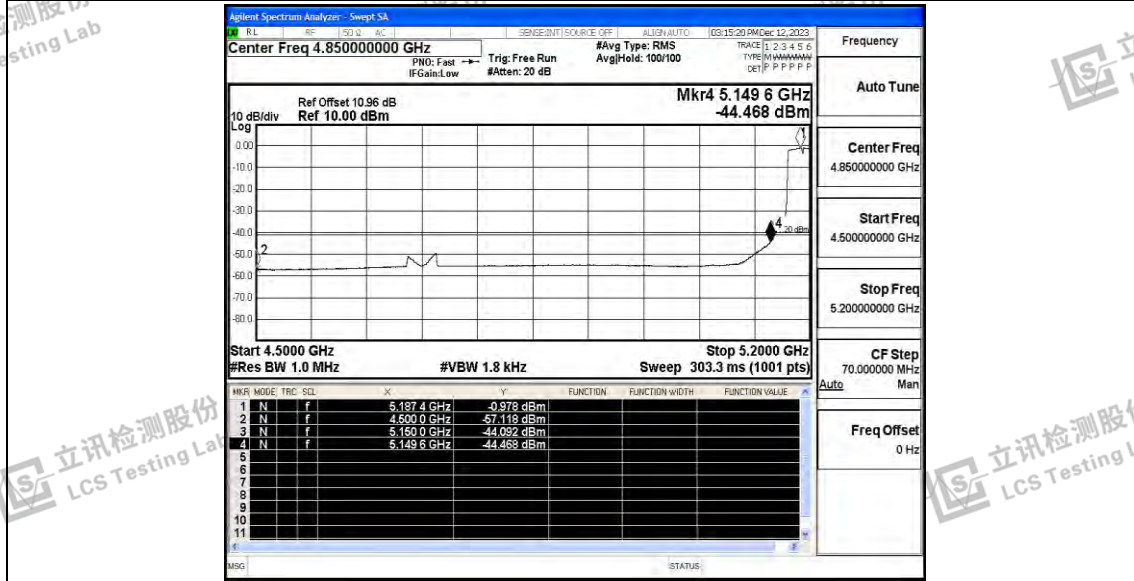


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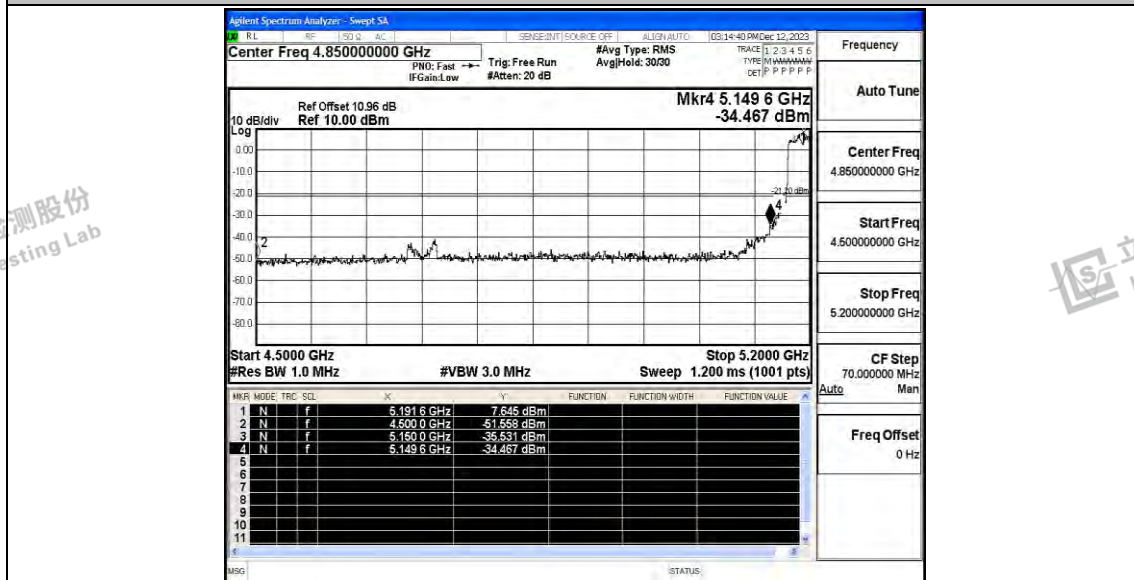
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11AC40SISO_Ant1_Low_5190_Peak



11AC40SISO_Ant1_High_5230_AV

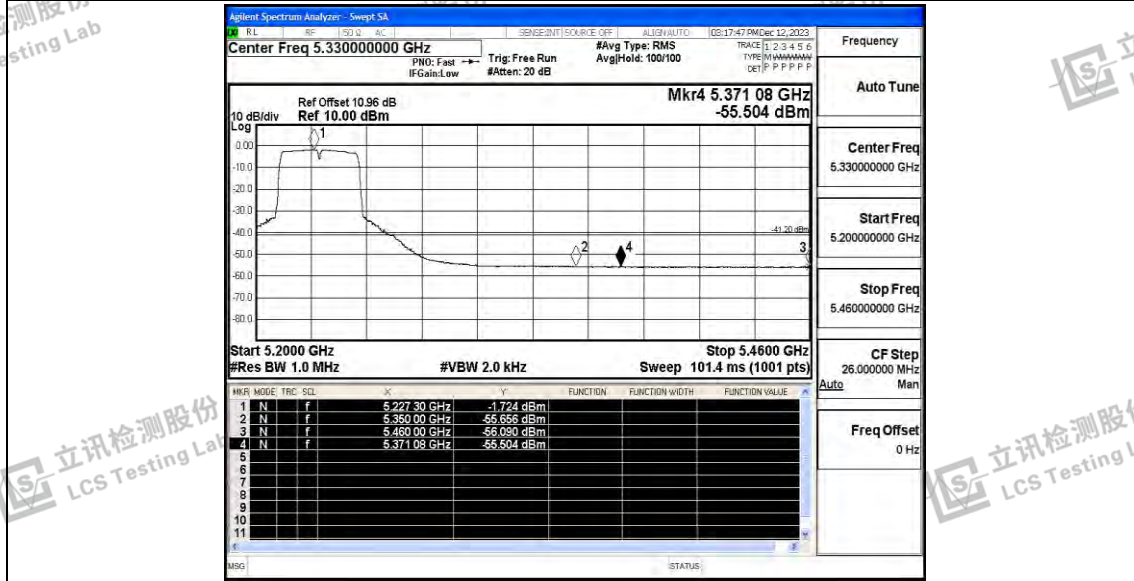


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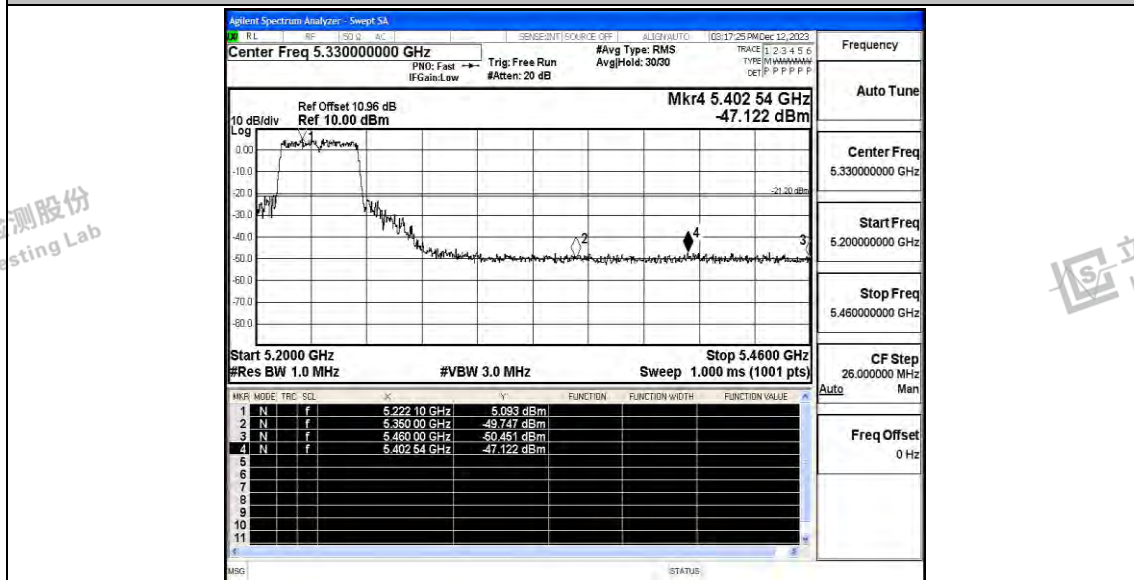
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC40SISO_Ant1_High_5230_Peak



11AC80SISO_Ant1_Low_5210_AV

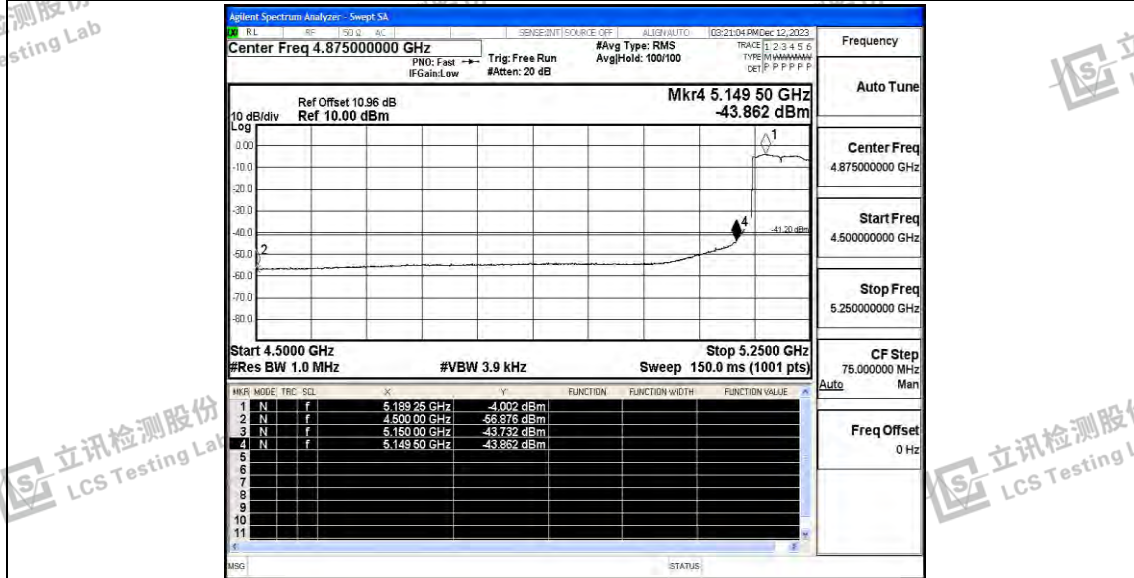


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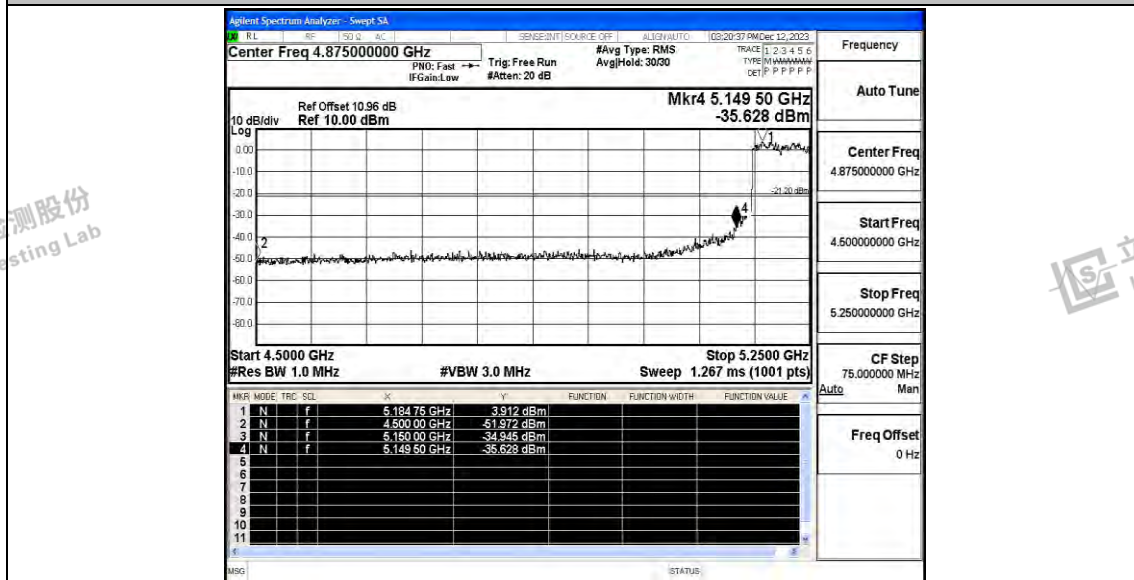
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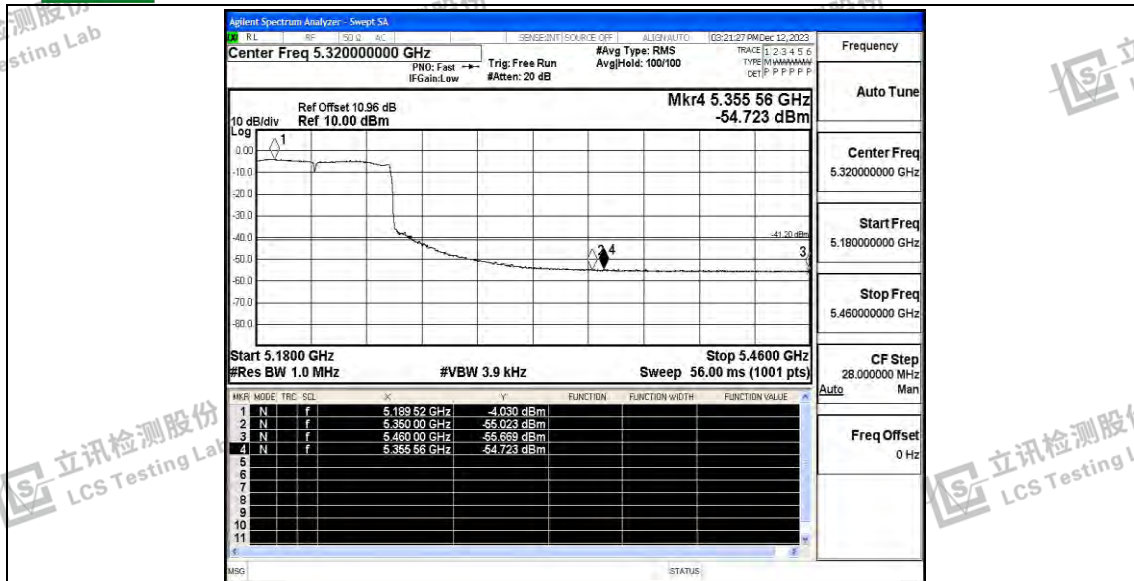


11AC80SISO_Ant1_Low_5210_Peak

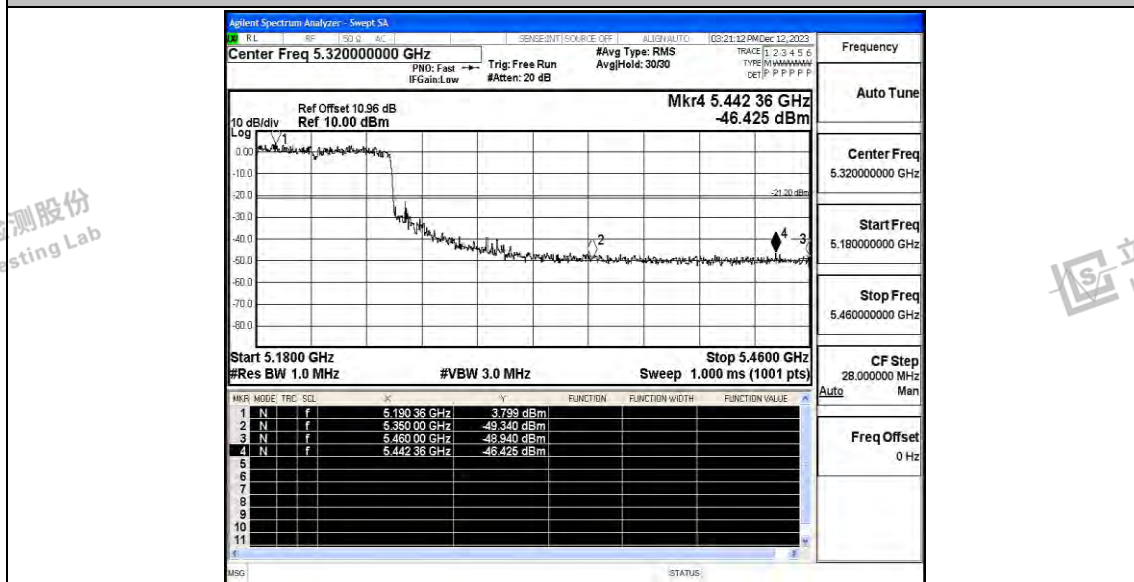


11AC80SISO_Ant1_High_5210_AV





11AC80SISO_Ant1_High_5210_Peak



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MIMO

Condition	Mode	Frequency (MHz)	Ant0 Power (Dbm)	Ant1 Power (Dbm)	Gain (dBi)	Total E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	n20	5180	-57.52	-57.42	5.05	45.85	AV	≤54	Pass
NVNT	n20	5180	-52.66	-52.99	5.05	50.50	AV	≤54	Pass
NVNT	n20	5180	-52.03	-53.04	5.05	50.81	AV	≤54	Pass
NVNT	n20	5180	-50.1	-51.7	5.05	52.49	Peak	≤74	Pass
NVNT	n20	5180	-33.96	-32.87	5.05	69.94	Peak	≤74	Pass
NVNT	n20	5180	-32.52	-34.58	5.05	69.89	Peak	≤74	Pass
NVNT	n20	5240	-55.4	-55.24	5.05	48.00	AV	≤54	Pass
NVNT	n20	5240	-55.19	-55.23	5.05	48.11	AV	≤54	Pass
NVNT	n20	5240	-56.34	-56.25	5.05	47.02	AV	≤54	Pass
NVNT	n20	5240	-46.94	-49.43	5.05	55.31	Peak	≤74	Pass
NVNT	n20	5240	-45.89	-47.09	5.05	56.87	Peak	≤74	Pass
NVNT	n20	5240	-49.44	-51.71	5.05	52.89	Peak	≤74	Pass
NVNT	n40	5190	-57.17	-57.07	5.05	46.20	AV	≤54	Pass
NVNT	n40	5190	-50.25	-54.73	5.05	51.38	AV	≤54	Pass
NVNT	n40	5190	-50.85	-54.17	5.05	51.12	AV	≤54	Pass
NVNT	n40	5190	-51.82	-49.83	5.05	52.61	Peak	≤74	Pass
NVNT	n40	5190	-39.66	-36.36	5.05	65.61	Peak	≤74	Pass
NVNT	n40	5190	-43.37	-37.26	5.05	64.00	Peak	≤74	Pass
NVNT	n40	5230	-55.1	-55.36	5.05	48.09	AV	≤54	Pass
NVNT	n40	5230	-55.05	-55.19	5.05	48.20	AV	≤54	Pass
NVNT	n40	5230	-55.85	-55.8	5.05	47.49	AV	≤54	Pass
NVNT	n40	5230	-48.82	-50.13	5.05	53.89	Peak	≤74	Pass
NVNT	n40	5230	-46.58	-47.1	5.05	56.49	Peak	≤74	Pass
NVNT	n40	5230	-49.35	-49.18	5.05	54.05	Peak	≤74	Pass
NVNT	ac20	5180	-57.47	-57.39	5.05	45.89	AV	≤54	Pass
NVNT	ac20	5180	-52.18	-54.13	5.05	50.27	AV	≤54	Pass
NVNT	ac20	5180	-51.89	-54.01	5.05	50.50	AV	≤54	Pass
NVNT	ac20	5180	-50.11	-51.97	5.05	52.38	Peak	≤74	Pass
NVNT	ac20	5180	-28.46	-36.31	5.05	72.51	Peak	≤74	Pass
NVNT	ac20	5180	-31.95	-33.28	5.05	70.75	Peak	≤74	Pass
NVNT	ac20	5240	-55.42	-55.89	5.05	47.67	AV	≤54	Pass
NVNT	ac20	5240	-55.25	-55.84	5.05	47.78	AV	≤54	Pass
NVNT	ac20	5240	-56.39	-56.58	5.05	46.83	AV	≤54	Pass
NVNT	ac20	5240	-49.8	-49.21	5.05	53.82	Peak	≤74	Pass
NVNT	ac20	5240	-46.49	-45.7	5.05	57.24	Peak	≤74	Pass
NVNT	ac20	5240	-49.97	-50.92	5.05	52.90	Peak	≤74	Pass
NVNT	ac40	5190	-57.19	-57.12	5.05	46.16	AV	≤54	Pass



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NVNT	ac40	5190	-50.01	-54.47	5.05	51.63	AV	≤54	Pass
NVNT	ac40	5190	-50.2	-54.09	5.05	51.59	AV	≤54	Pass
NVNT	ac40	5190	-49.73	-51.56	5.05	52.77	Peak	≤74	Pass
NVNT	ac40	5190	-40.73	-34.47	5.05	66.76	Peak	≤74	Pass
NVNT	ac40	5190	-41.45	-35.53	5.05	65.77	Peak	≤74	Pass
NVNT	ac40	5230	-55.21	-55.66	5.05	47.89	AV	≤54	Pass
NVNT	ac40	5230	-55.21	-55.5	5.05	47.97	AV	≤54	Pass
NVNT	ac40	5230	-55.97	-56.09	5.05	47.29	AV	≤54	Pass
NVNT	ac40	5230	-45.76	-49.75	5.05	56.01	Peak	≤74	Pass
NVNT	ac40	5230	-44.36	-47.12	5.05	57.79	Peak	≤74	Pass
NVNT	ac40	5230	-50.2	-50.45	5.05	52.99	Peak	≤74	Pass
NVNT	ac80	5210	-56.85	-56.88	5.05	46.45	AV	≤54	Pass
NVNT	ac80	5210	-49.64	-53.86	5.05	52.06	AV	≤54	Pass
NVNT	ac80	5210	-49.97	-53.73	5.05	51.86	AV	≤54	Pass
NVNT	ac80	5210	-51.07	-51.97	5.05	51.82	Peak	≤74	Pass
NVNT	ac80	5210	-40.29	-35.63	5.05	65.96	Peak	≤74	Pass
NVNT	ac80	5210	-42.08	-34.95	5.05	66.13	Peak	≤74	Pass
NVNT	ac80	5210	-53.9	-55.02	5.05	48.89	AV	≤54	Pass
NVNT	ac80	5210	-53.62	-54.72	5.05	49.18	AV	≤54	Pass
NVNT	ac80	5210	-55.59	-55.67	5.05	47.69	AV	≤54	Pass
NVNT	ac80	5210	-48.09	-49.34	5.05	54.65	Peak	≤74	Pass
NVNT	ac80	5210	-45.05	-46.43	5.05	57.63	Peak	≤74	Pass
NVNT	ac80	5210	-50.23	-48.94	5.05	53.78	Peak	≤74	Pass





D.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Frequen cy[MHz]	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant0	5180	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	-20000.00	-3.861004	20	PASS
		5220	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.831418	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5240	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-7.633588	20	PASS
11N40SI SO	Ant0	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.707129	20	PASS
			HV	NT	-40000.00	-7.707129	20	PASS
		5230	NV	NT	40000.00	7.648184	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AC80S ISO	Ant0	5210	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
11A	Ant0	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.861004	20	PASS
			NV	0	-20000.00	-3.861004	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.861004	20	PASS
			NV	30	-20000.00	-3.861004	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.861004	20	PASS
		5220	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-20000.00	-3.831418	20	PASS
			NV	-10	0.00	0.000000	20	PASS



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			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.831418	20	PASS
			NV	30	-20000.00	-3.831418	20	PASS
			NV	40	-20000.00	-3.831418	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5240	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-20000.00	-3.816794	20	PASS
			NV	-10	-40000.00	-7.633588	20	PASS
			NV	0	-20000.00	-3.816794	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.816794	20	PASS
			NV	40	-20000.00	-3.816794	20	PASS
			NV	50	-20000.00	-3.816794	20	PASS
			NV	-30	0.00	0.000000	20	PASS
11N40SI SO	Ant0	5190	NV	-20	-40000.00	-7.707129	20	PASS
			NV	-10	-40000.00	-7.707129	20	PASS
			NV	0	-40000.00	-7.707129	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-40000.00	-7.707129	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5230	NV	-30	-40000.00	-7.648184	20	PASS
			NV	-20	-40000.00	-7.648184	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-40000.00	-7.648184	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
11AC80S ISO	Ant0	5210	NV	50	-40000.00	-7.648184	20	PASS
			NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS



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		NV	40	0.00	0.000000	20	PASS
		NV	50	0.00	0.000000	20	PASS

Test Result

Voltage								
TestMode	Antenna	Frequen cy[MHz]	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5220	NV	NT	-20000.00	-3.831418	20	PASS
			LV	NT	-20000.00	-3.831418	20	PASS
			HV	NT	-40000.00	-7.662835	20	PASS
		5240	NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.816794	20	PASS
11N40SI SO	Ant1	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-7.707129	20	PASS
		5230	NV	NT	-40000.00	-7.648184	20	PASS
			LV	NT	-40000.00	-7.648184	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AC80S ISO	Ant1	5210	NV	NT	-80000.00	-15.355086	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
11A	Ant1	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-20000.00	-3.861004	20	PASS
			NV	-10	-20000.00	-3.861004	20	PASS
			NV	0	-20000.00	-3.861004	20	PASS
			NV	10	-20000.00	-3.861004	20	PASS
			NV	20	-20000.00	-3.861004	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
		5220	NV	-30	-20000.00	-3.831418	20	PASS





			NV	-20	-20000.00	-3.831418	20	PASS
			NV	-10	-20000.00	-3.831418	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-20000.00	-3.831418	20	PASS
			NV	20	-20000.00	-3.831418	20	PASS
			NV	30	-20000.00	-3.831418	20	PASS
			NV	40	-20000.00	-3.831418	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5240	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-20000.00	-3.816794	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.816794	20	PASS
			NV	10	-20000.00	-3.816794	20	PASS
			NV	20	-40000.00	-7.633588	20	PASS
			NV	30	-20000.00	-3.816794	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.816794	20	PASS
11N40SI SO	Ant1	5190	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-40000.00	-7.707129	20	PASS
			NV	20	0.00	0.000000	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
		5230	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
11AC80S ISO	Ant1	5210	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-80000.00	-15.355086	20	PASS
			NV	0	-80000.00	-15.355086	20	PASS
			NV	10	-80000.00	-15.355086	20	PASS





		NV	20	0.00	0.000000	20	PASS
		NV	30	0.00	0.000000	20	PASS
		NV	40	-80000.00	-15.355086	20	PASS
		NV	50	80000.00	15.355086	20	PASS





D.6 Duty Cycle

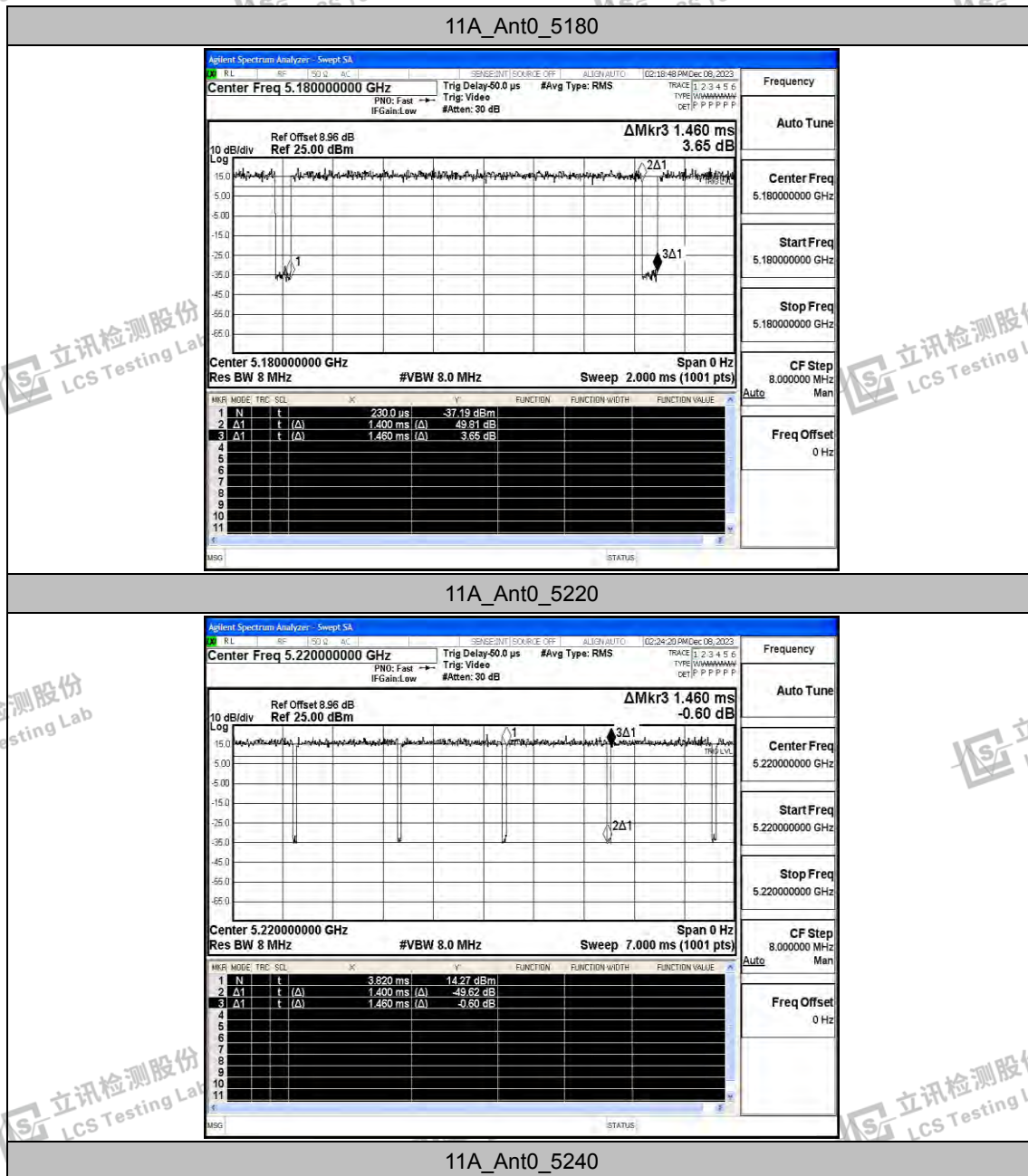
Test Result

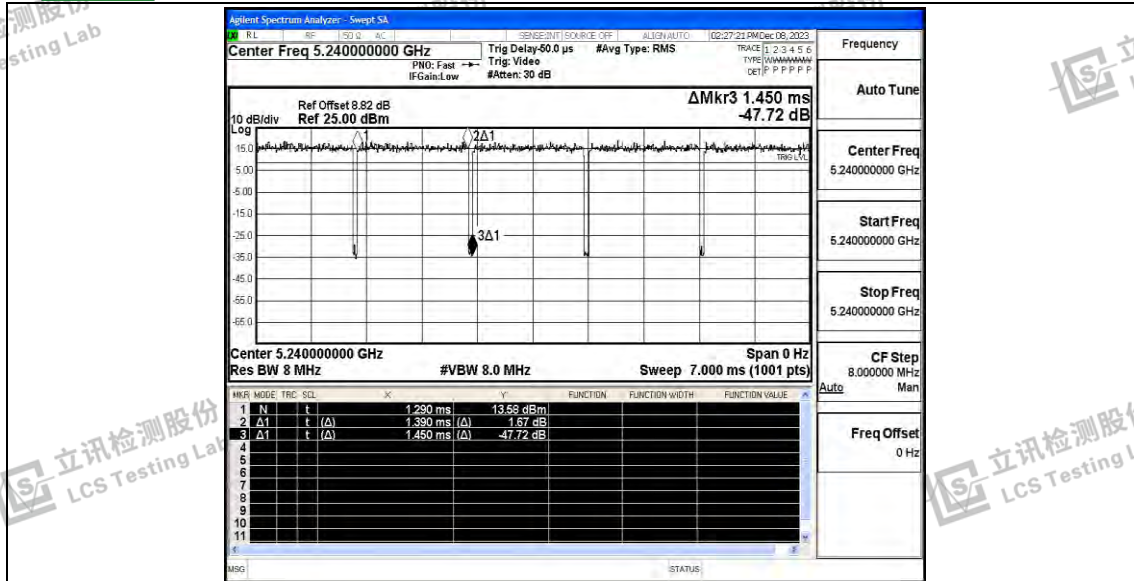
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [kHz]
11A	Ant0	5180	1.40	1.46	95.89	0.71
		5220	1.40	1.46	95.89	0.71
		5240	1.39	1.45	95.86	0.72
11N20SISO	Ant0	5180	1.18	1.24	95.16	0.85
		5220	1.17	1.24	94.35	0.85
		5240	1.18	1.24	95.16	0.85
11N40SISO	Ant0	5190	0.58	0.65	89.23	1.72
		5230	0.59	0.65	90.77	1.69
11AC20SISO	Ant0	5180	1.19	1.26	94.44	0.84
		5220	1.19	1.25	95.20	0.84
		5240	1.19	1.26	94.44	0.84
11AC40SISO	Ant0	5190	0.59	0.66	89.39	1.69
		5230	0.59	0.65	90.77	1.69
11AC80SISO	Ant0	5210	0.30	0.36	83.33	3.33



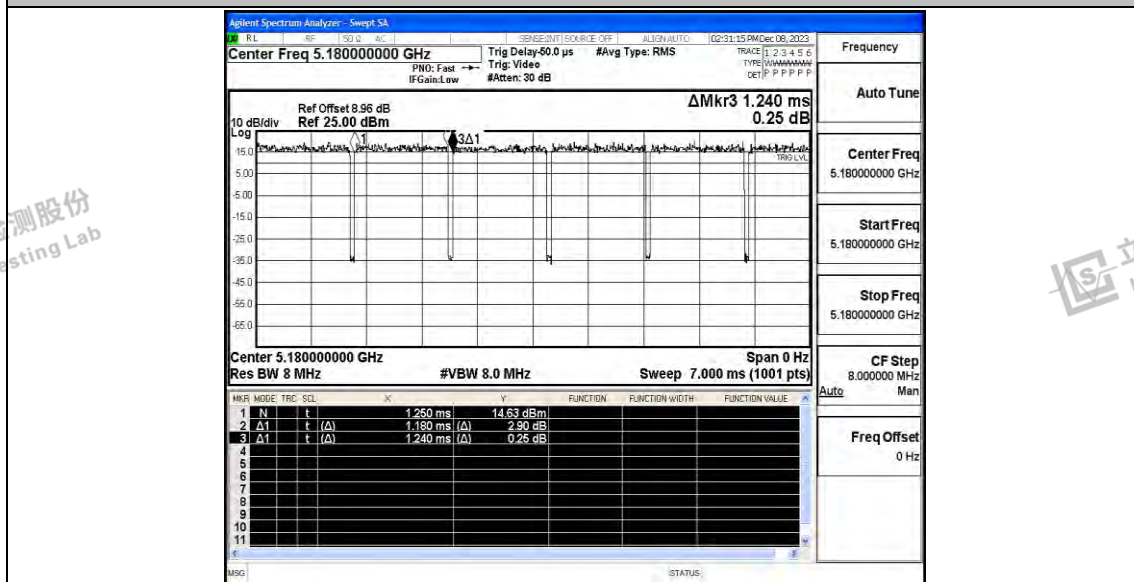


Test Graphs





11N20SISO_Ant0_5180



11N20SISO_Ant0_5220

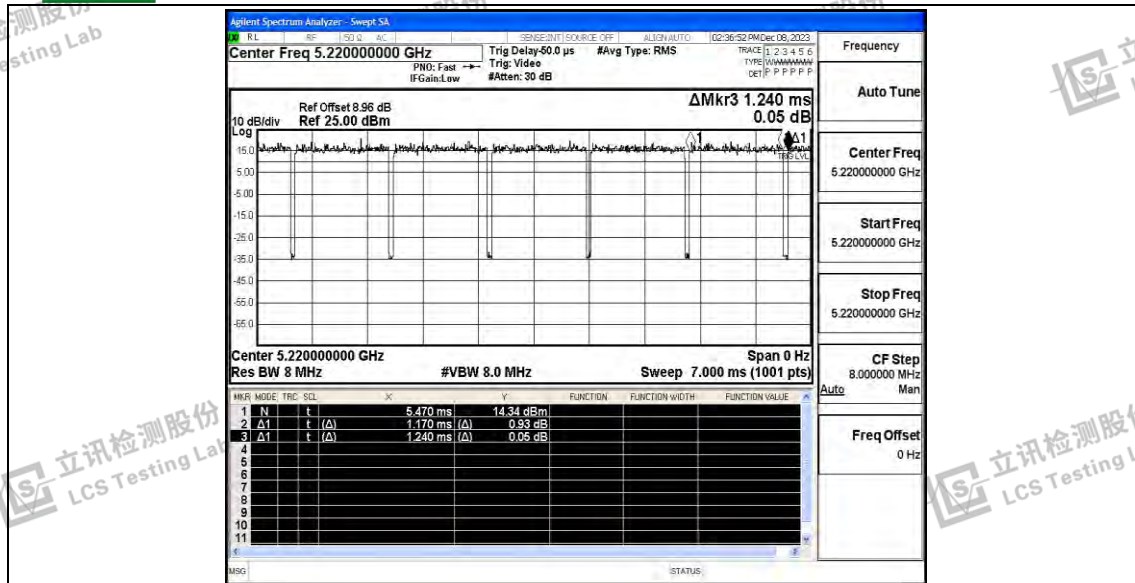


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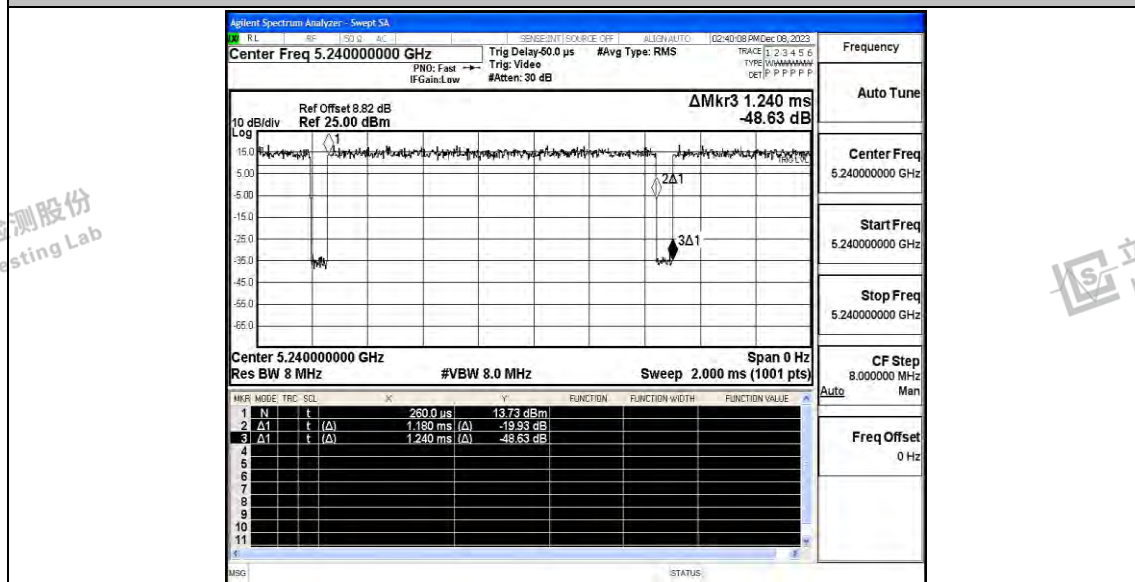
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant0_5240



11N40SISO_Ant0_5190

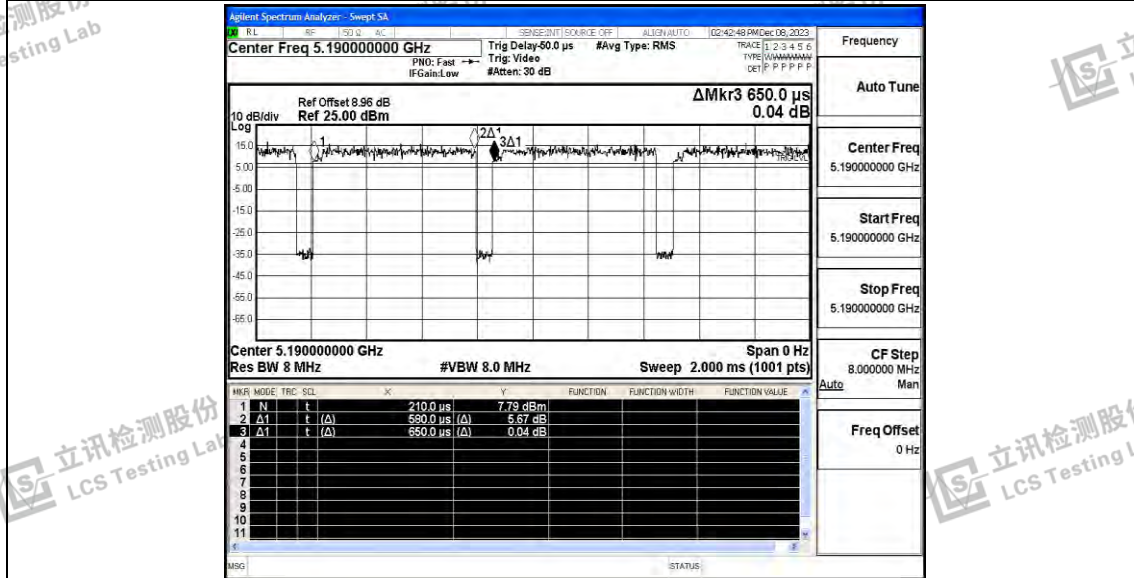


Shenzhen LCS Compliance Testing Laboratory Ltd.

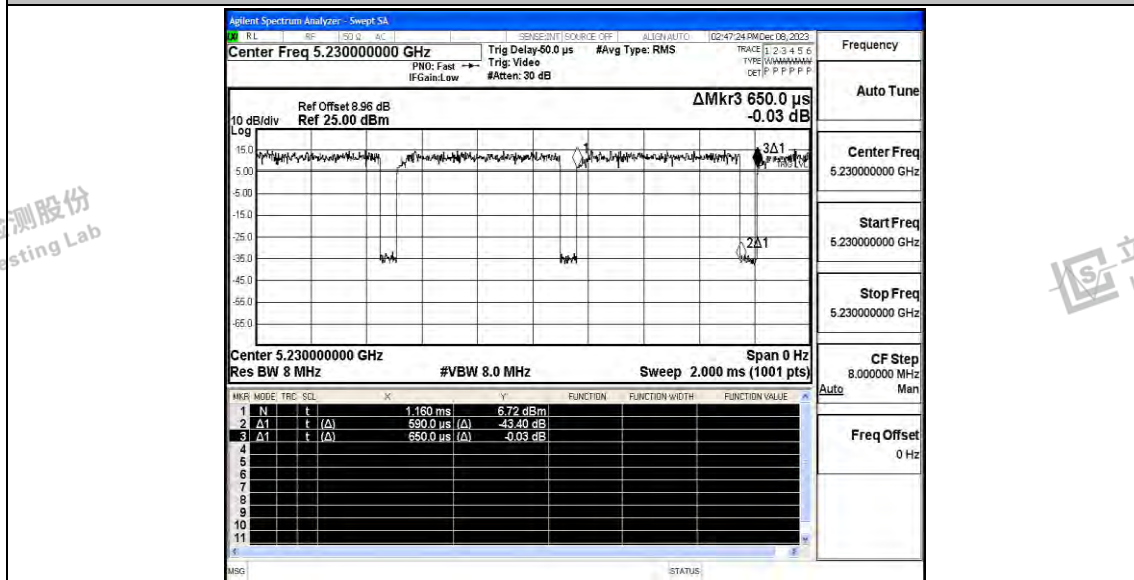
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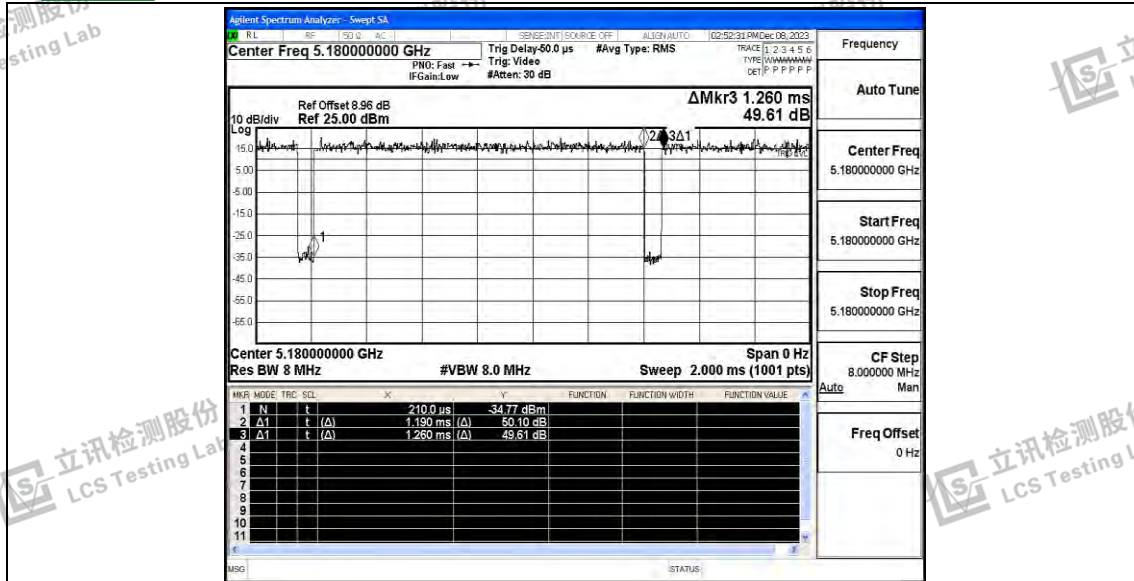


11N40SISO_Ant0_5230

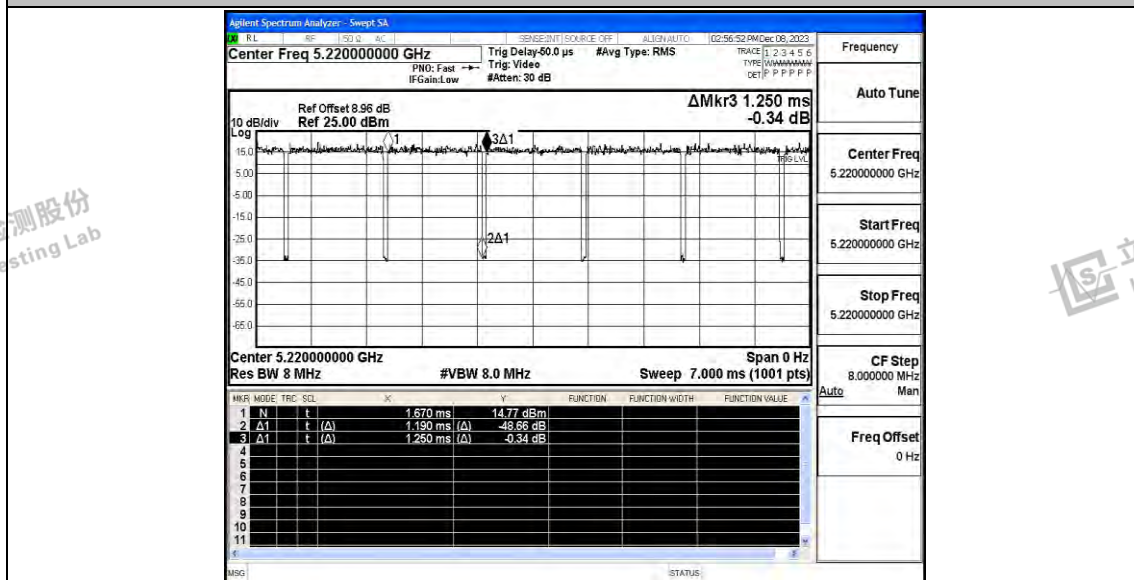


11AC20SISO_Ant0_5180



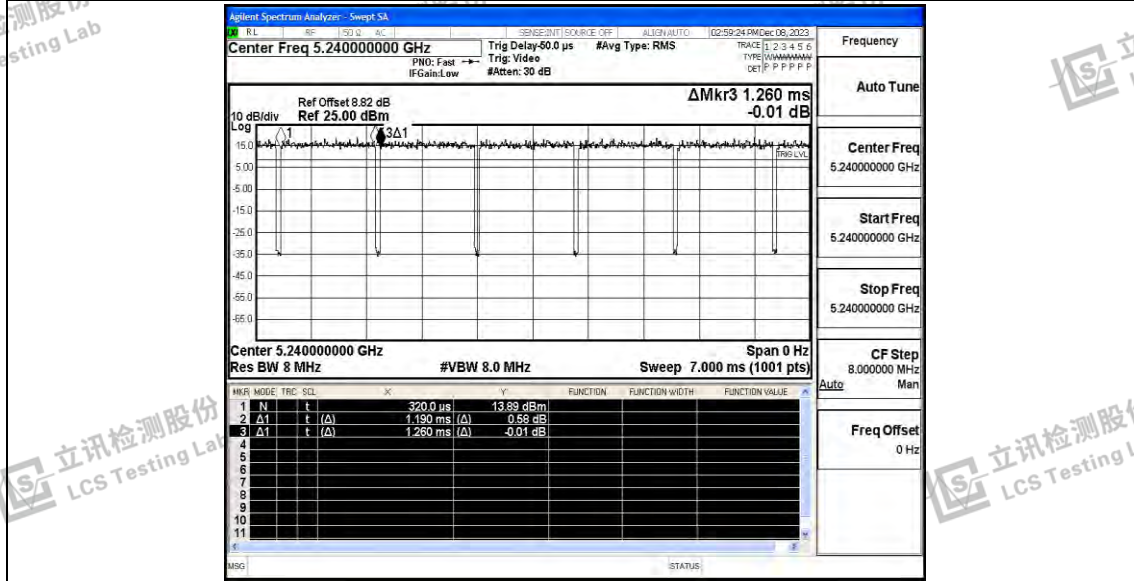


11AC20SISO_Ant0_5220

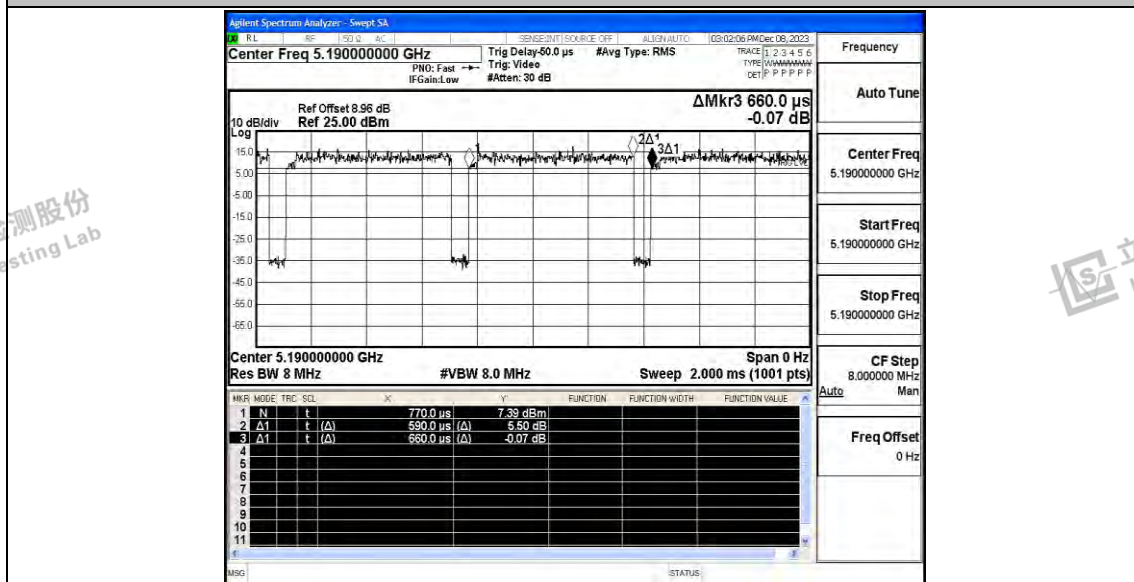


11AC20SISO_Ant0_5240





11AC40SISO_Ant0_5190



11AC40SISO_Ant0_5230

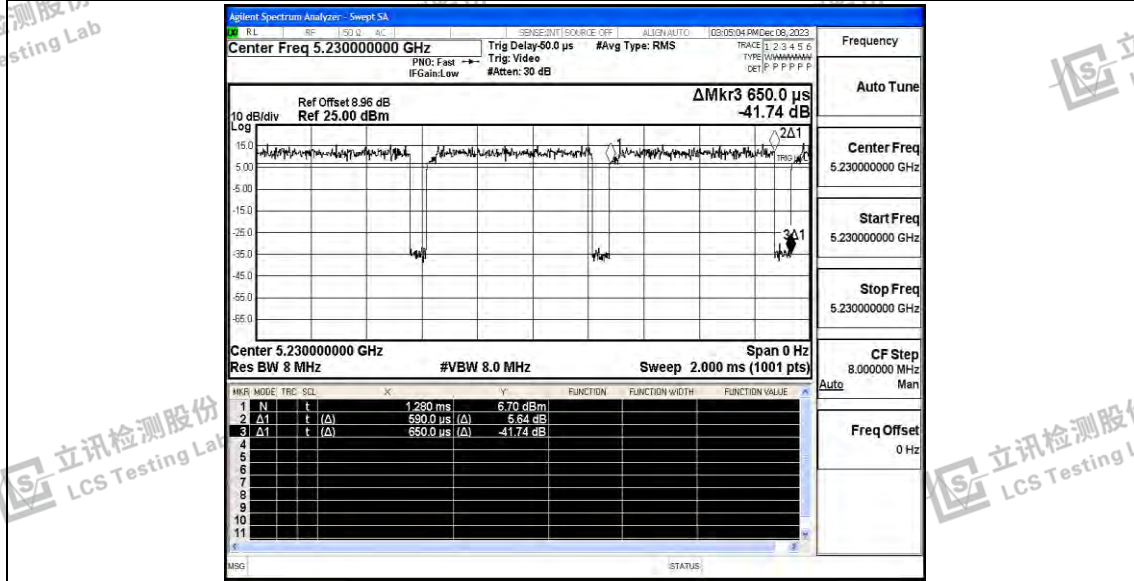


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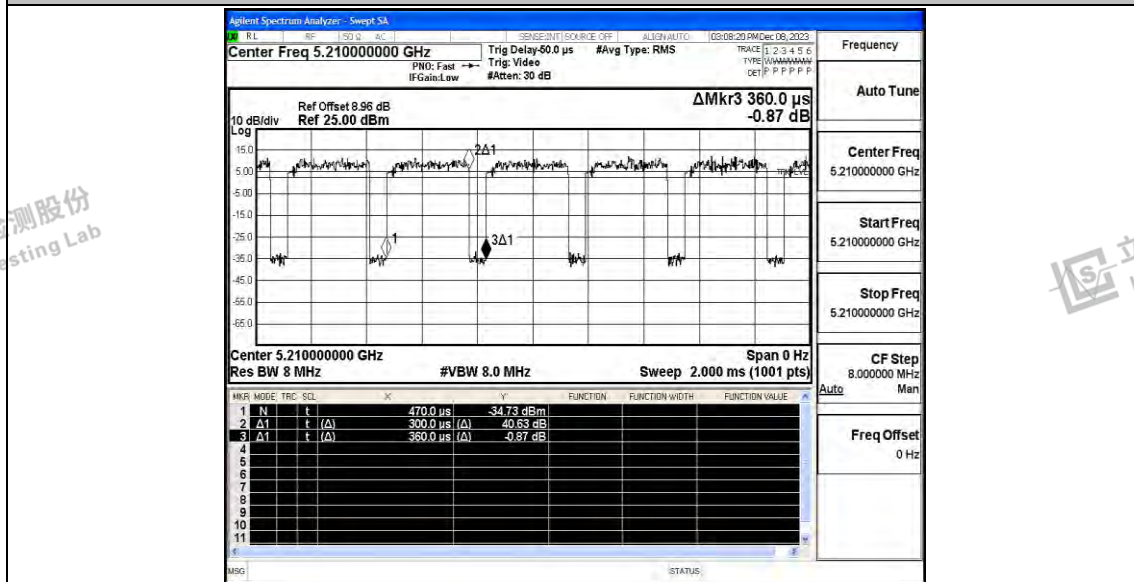
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11AC80SISO_Ant0_5210



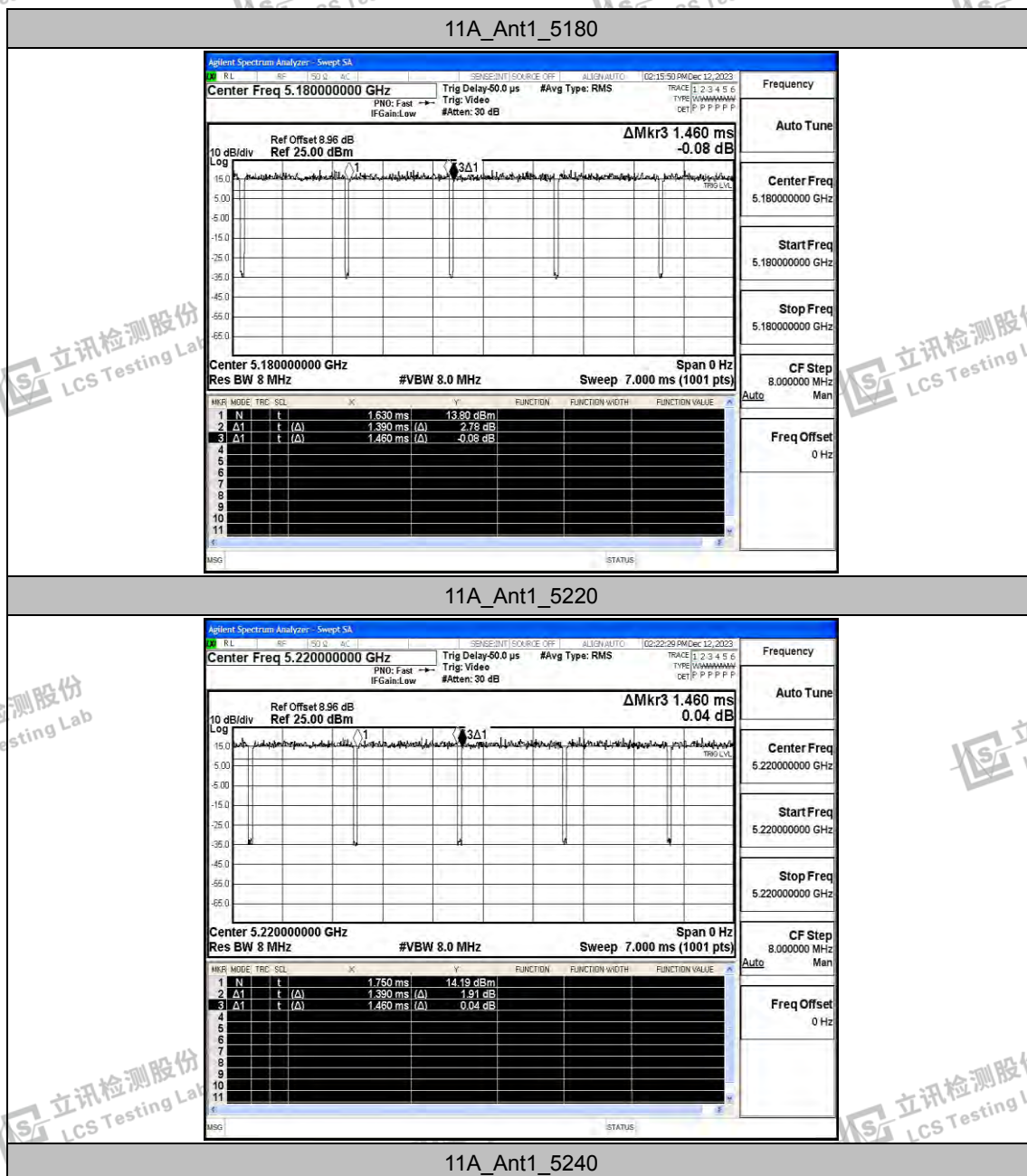
**Test Result**

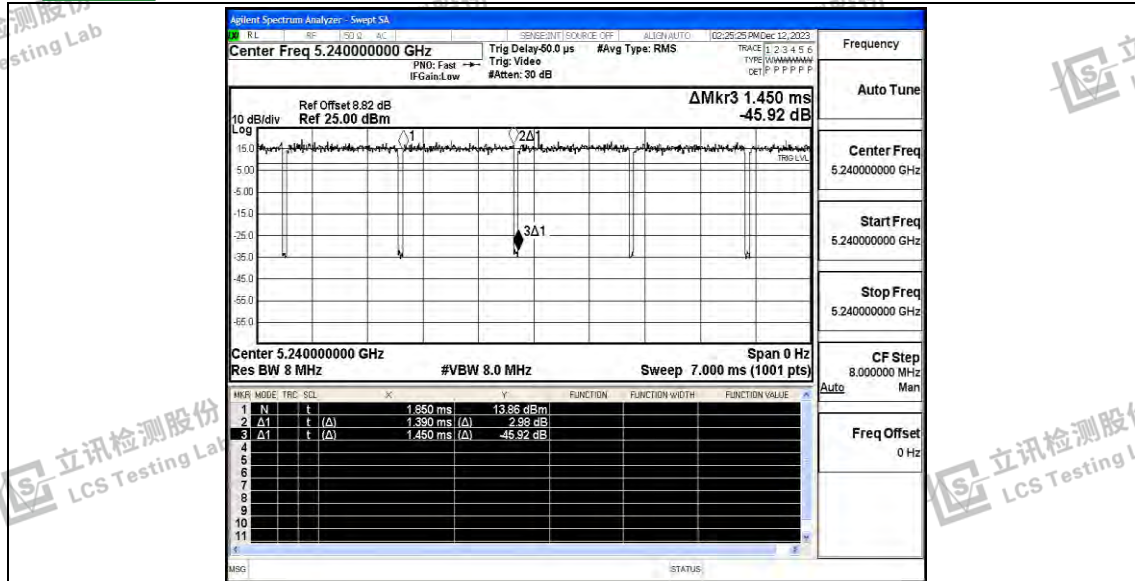
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [kHz]
11A	Ant1	5180	1.39	1.46	95.21	0.72
		5220	1.39	1.46	95.21	0.72
		5240	1.39	1.45	95.86	0.72
11N20SISO	Ant1	5180	1.17	1.24	94.35	0.85
		5220	1.17	1.24	94.35	0.85
		5240	1.17	1.23	95.12	0.85
11N40SISO	Ant1	5190	0.58	0.65	89.23	1.72
		5230	0.59	0.65	90.77	1.69
11AC20SISO	Ant1	5180	1.19	1.25	95.20	0.84
		5220	1.19	1.25	95.20	0.84
		5240	1.19	1.25	95.20	0.84
11AC40SISO	Ant1	5190	0.60	0.66	90.91	1.67
		5230	0.59	0.66	89.39	1.69
11AC80SISO	Ant1	5210	0.30	0.36	83.33	3.33



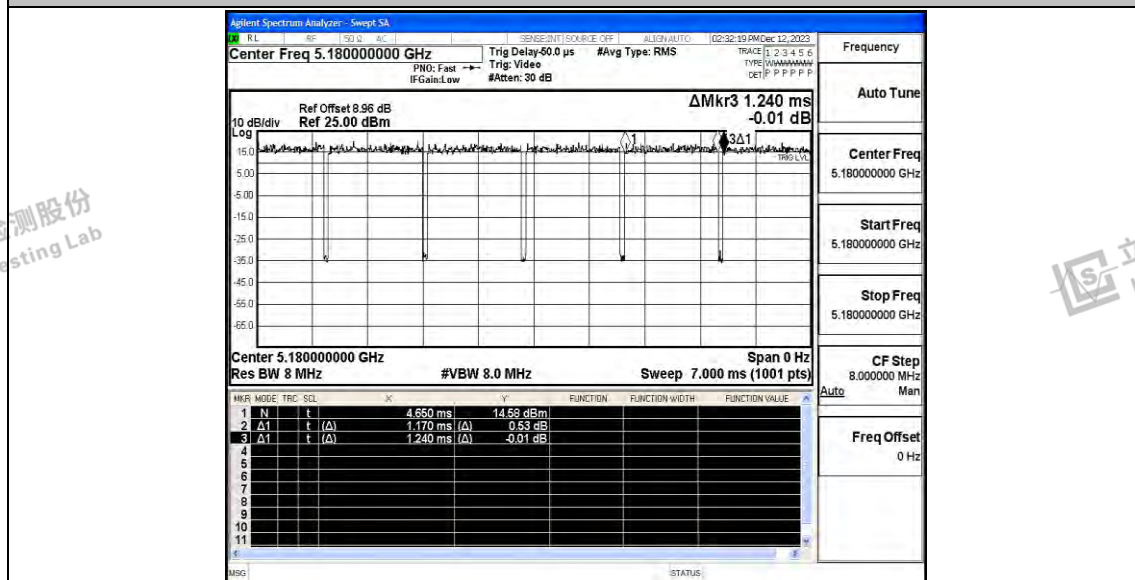


Test Graphs





11N20SISO_Ant1_5180



11N20SISO_Ant1_5220

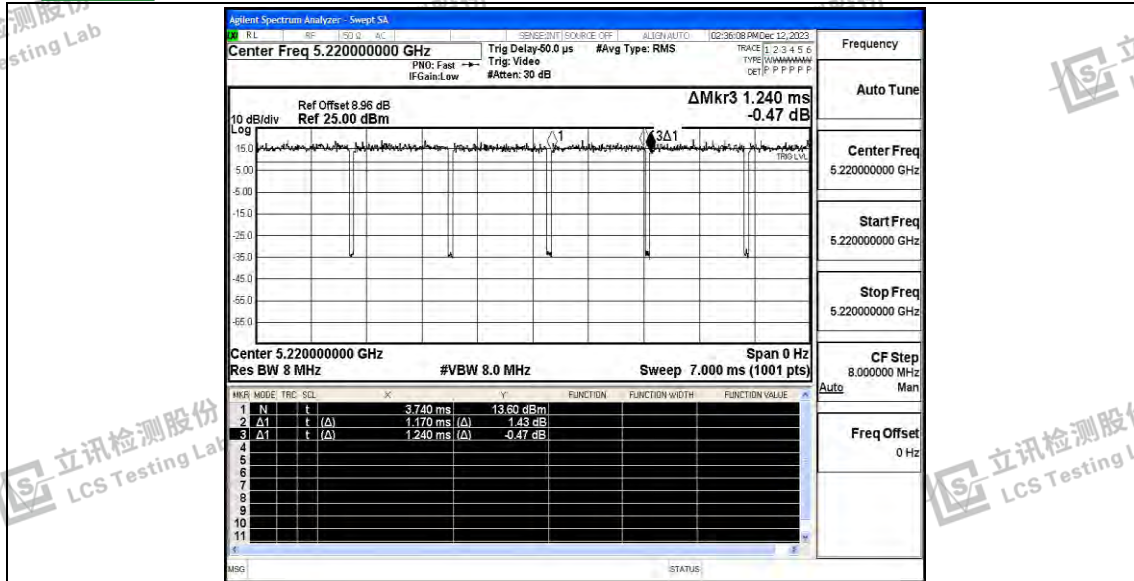


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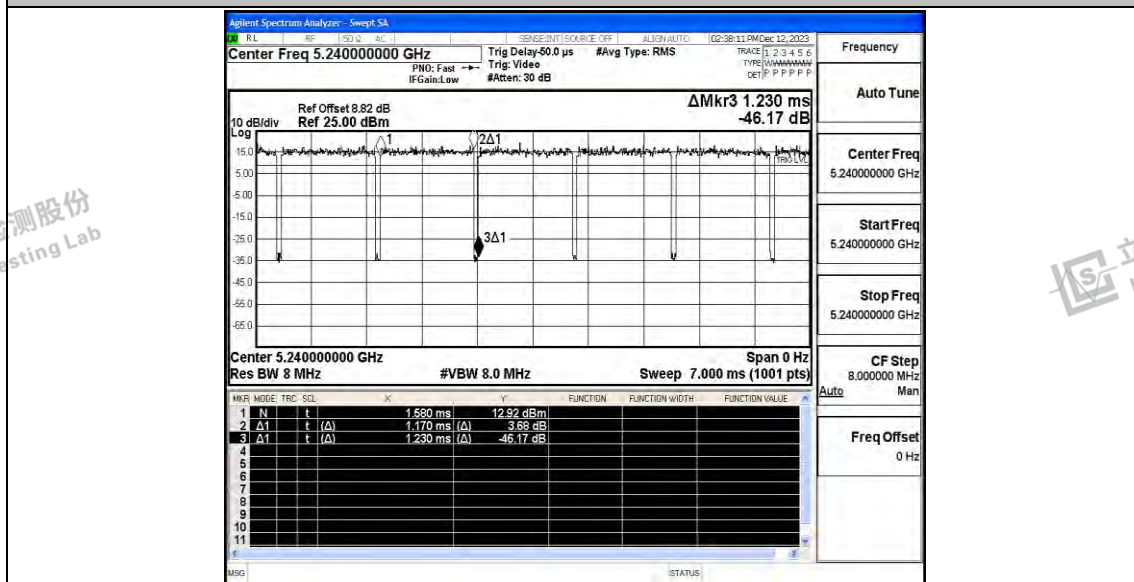
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11N20SISO_Ant1_5240



11N40SISO_Ant1_5190

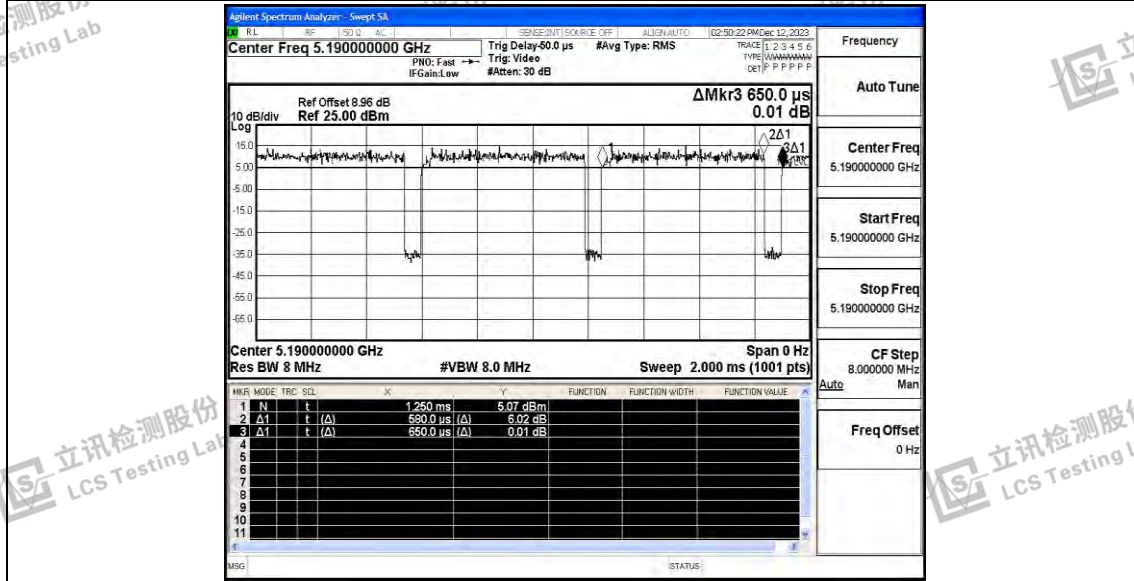


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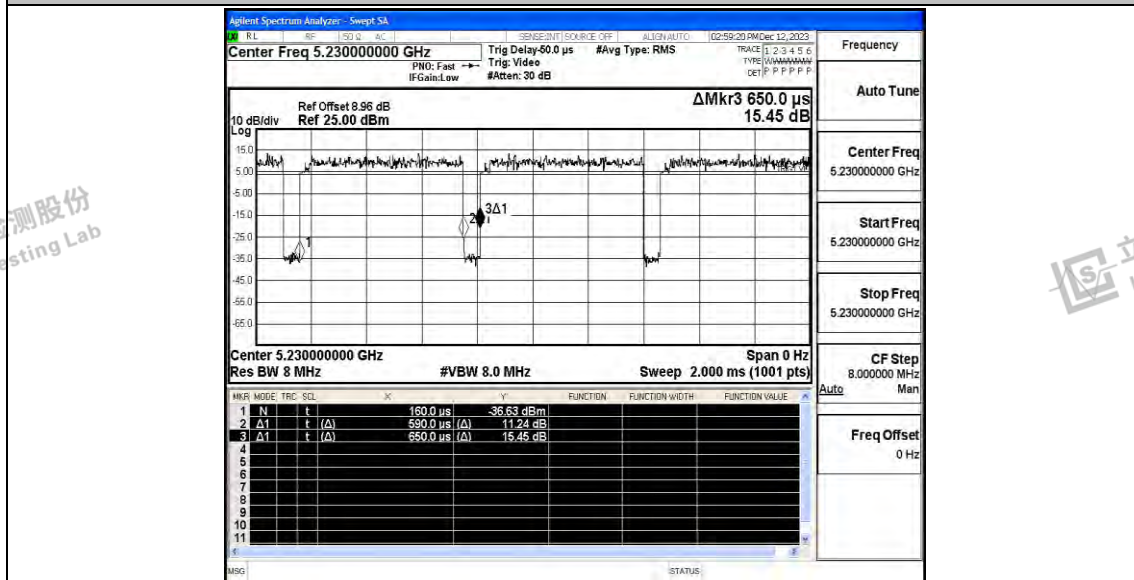
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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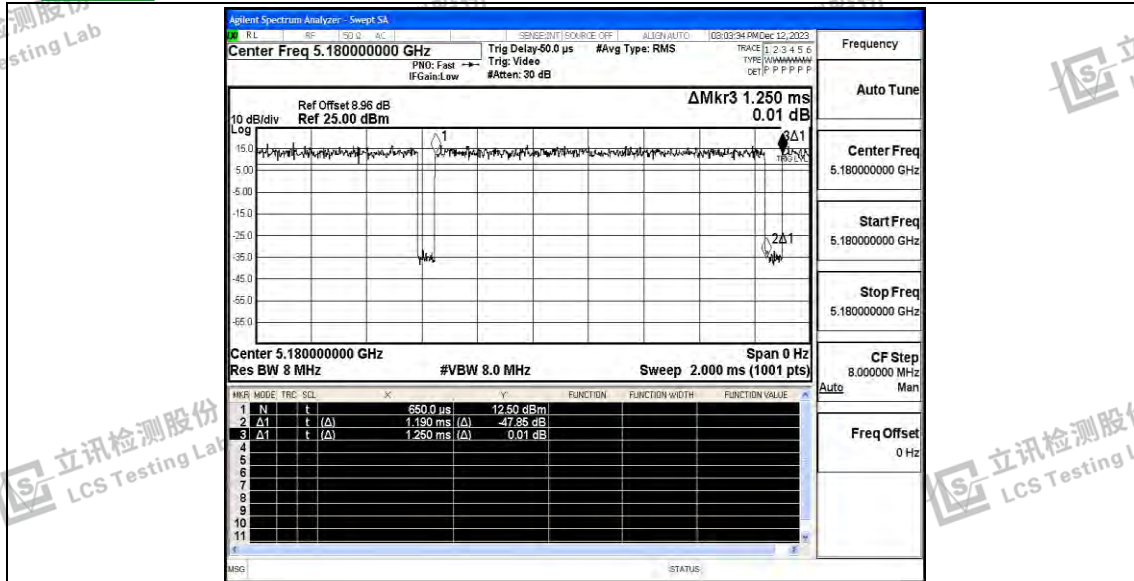


11N40SISO_Ant1_5230

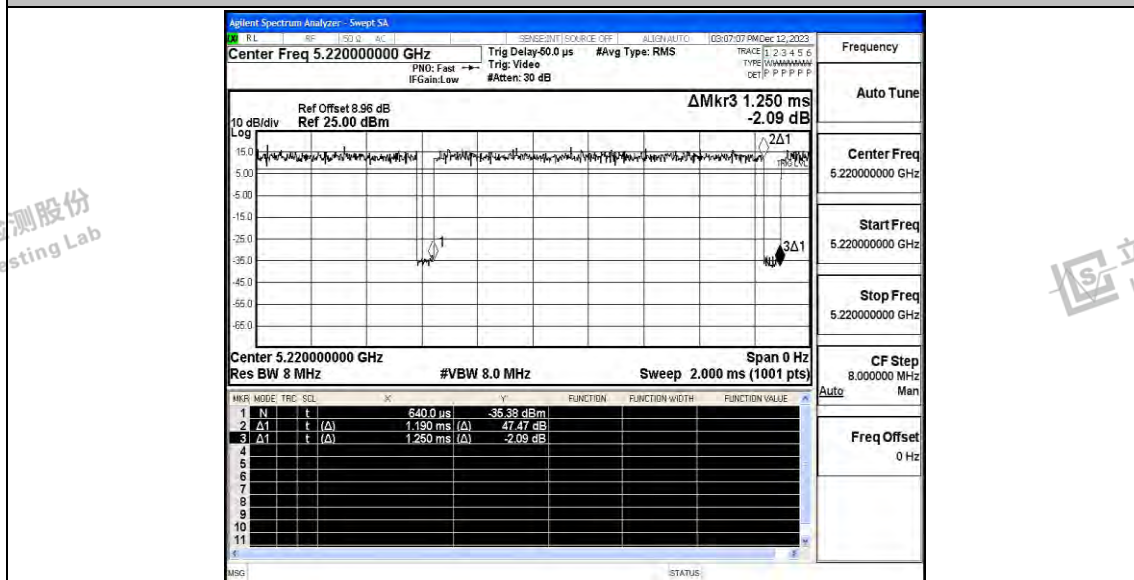


11AC20SISO_Ant1_5180





11AC20SISO_Ant1_5220



11AC20SISO_Ant1_5240

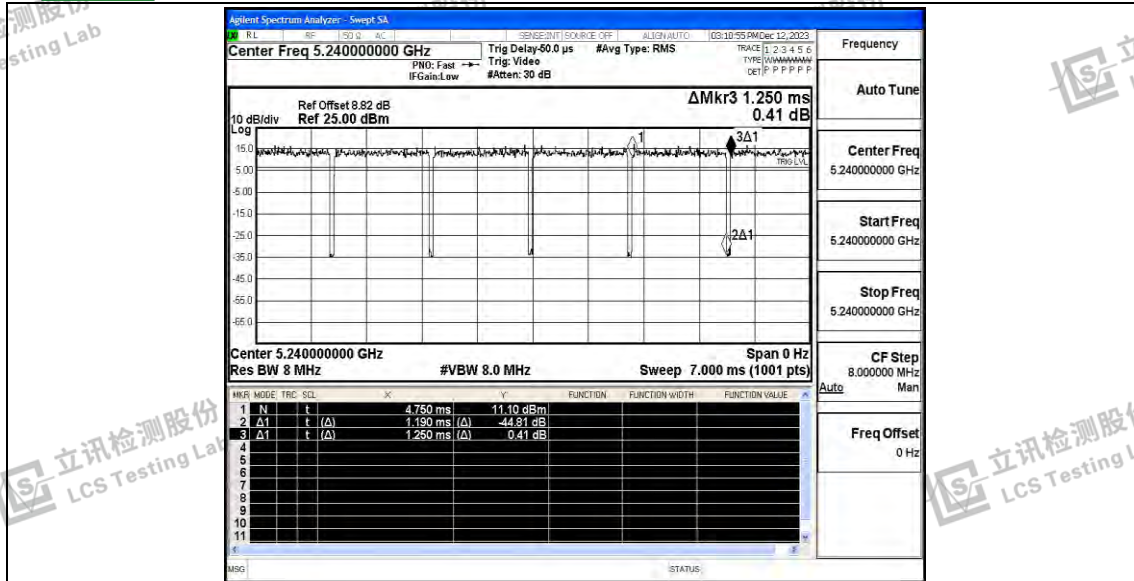


Shenzhen LCS Compliance Testing Laboratory Ltd.

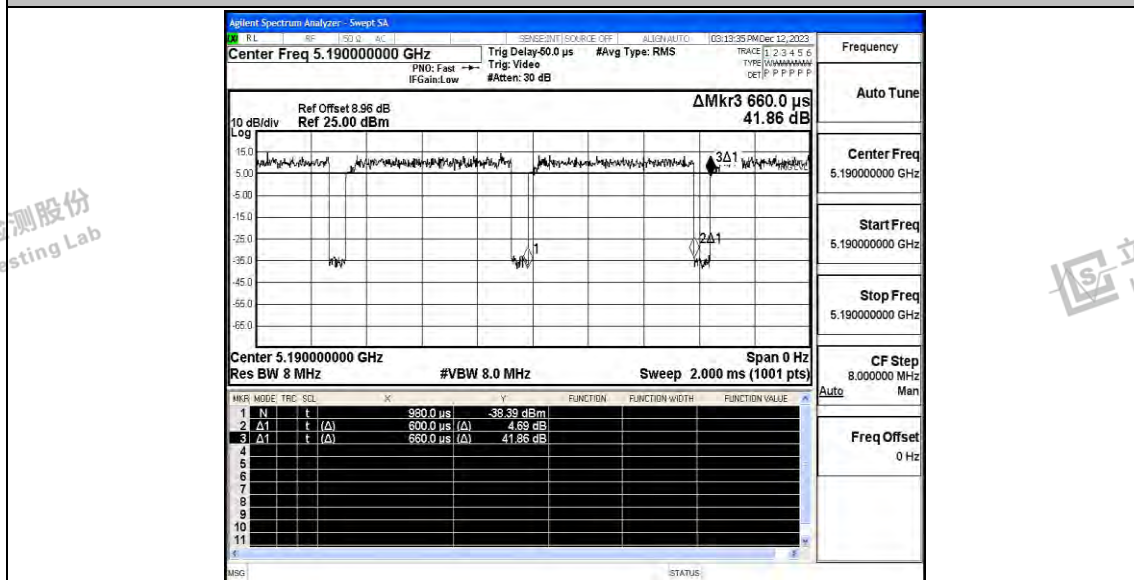
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

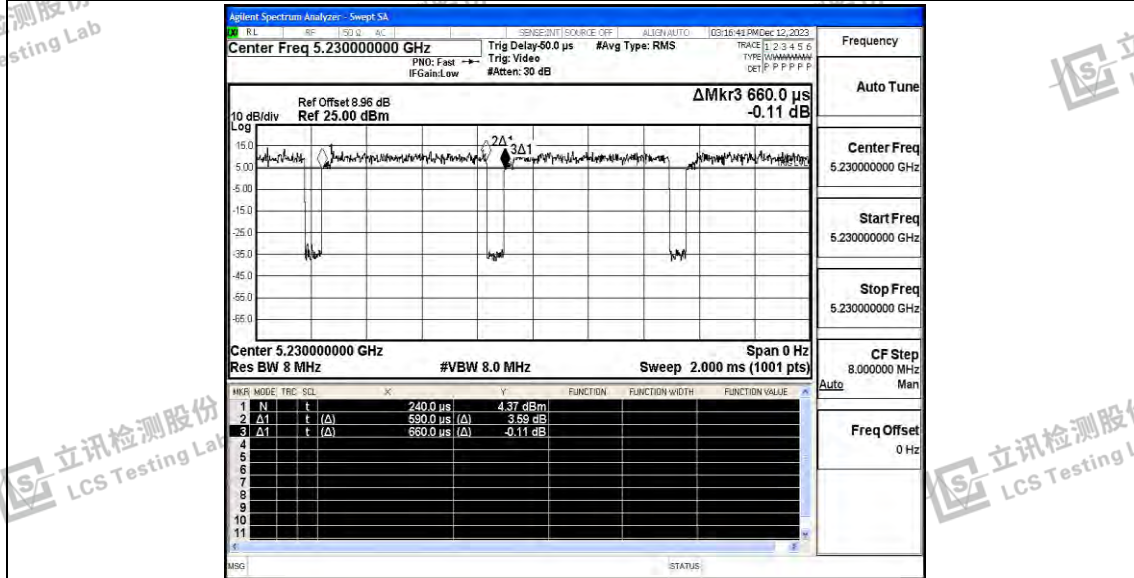


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11AC80SISO_Ant1_5210

