



Appendix E

RF Test Data for 5.8GWIFI (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



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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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E.1 Min emission bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant0	5745	16.320	5736.840	5753.160	0.5	PASS
		5785	16.320	5776.840	5793.160	0.5	PASS
		5825	16.360	5816.840	5833.200	0.5	PASS
11N20SISO	Ant0	5745	17.240	5736.400	5753.640	0.5	PASS
		5785	17.400	5776.360	5793.760	0.5	PASS
		5825	17.120	5816.480	5833.600	0.5	PASS
11N40SISO	Ant0	5755	35.680	5737.080	5772.760	0.5	PASS
		5795	35.760	5777.240	5813.000	0.5	PASS
11AC20SISO	Ant0	5745	17.280	5736.360	5753.640	0.5	PASS
		5785	17.240	5776.360	5793.600	0.5	PASS
		5825	17.120	5816.480	5833.600	0.5	PASS
11AC40SISO	Ant0	5755	35.840	5737.080	5772.920	0.5	PASS
		5795	35.680	5777.000	5812.680	0.5	PASS
11AC80SISO	Ant0	5775	75.680	5737.080	5812.760	0.5	PASS





Test Graphs

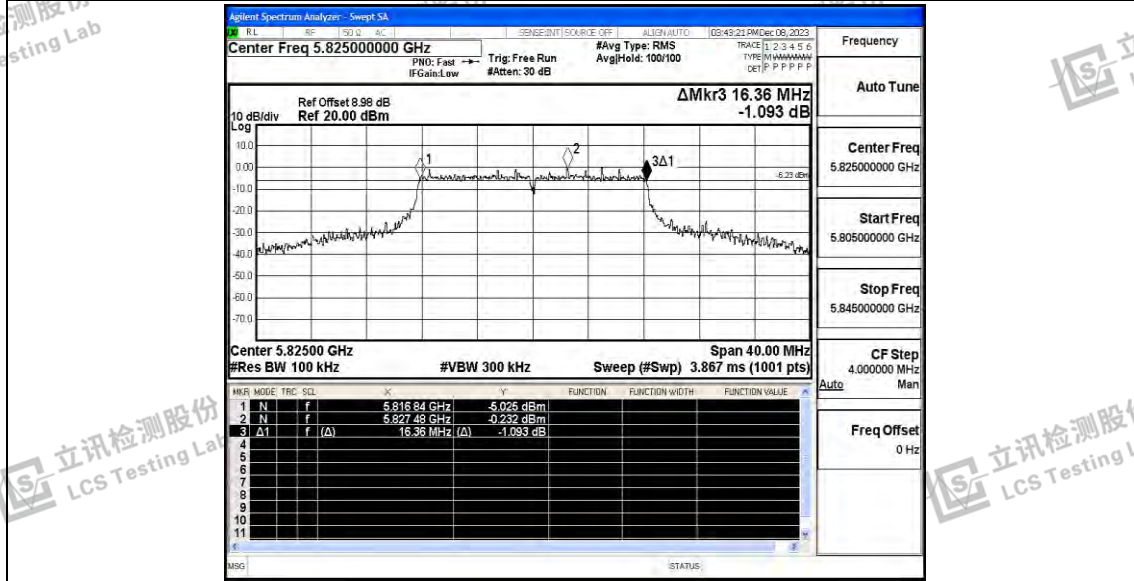


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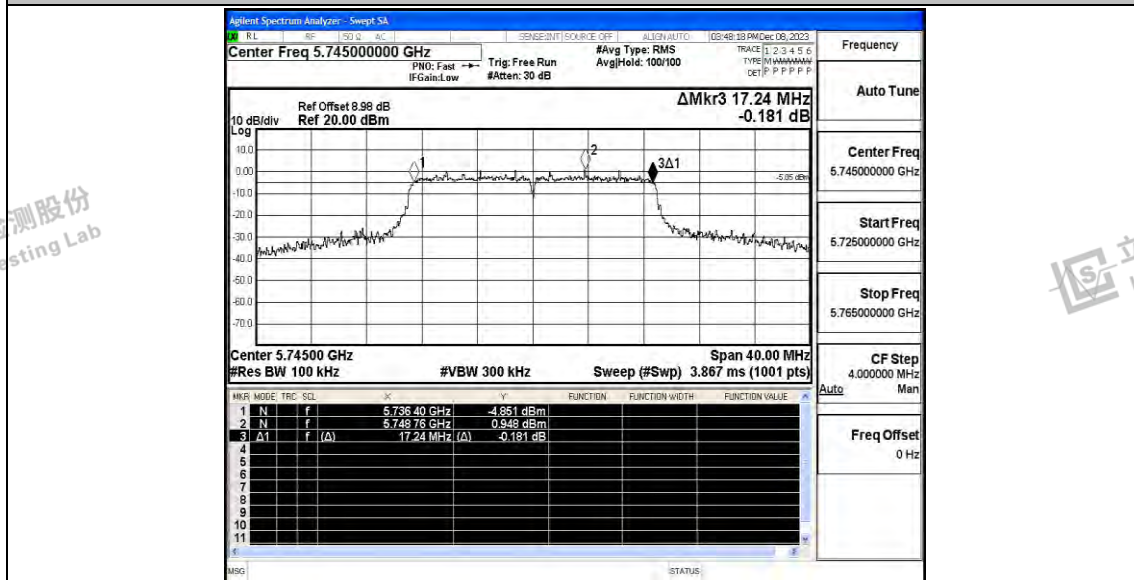
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11N20SISO_Ant0_5745



11N20SISO_Ant0_5785

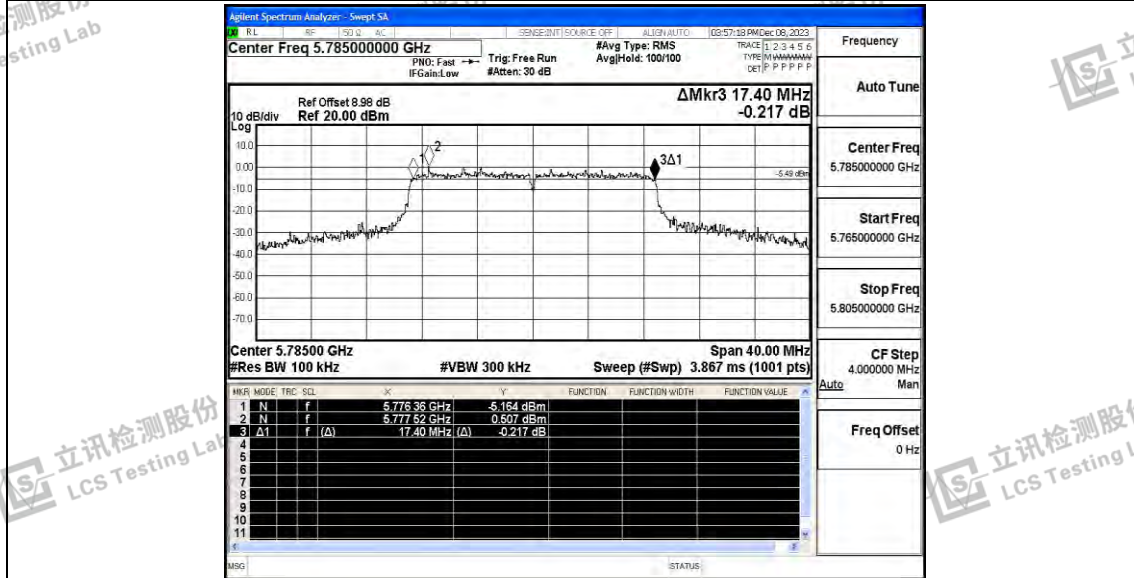


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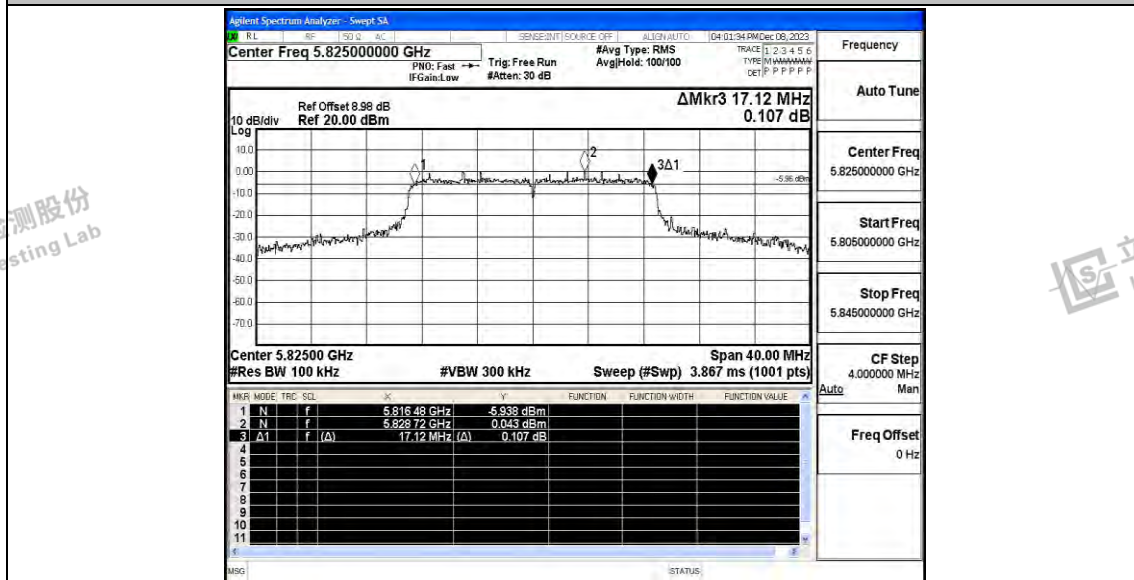
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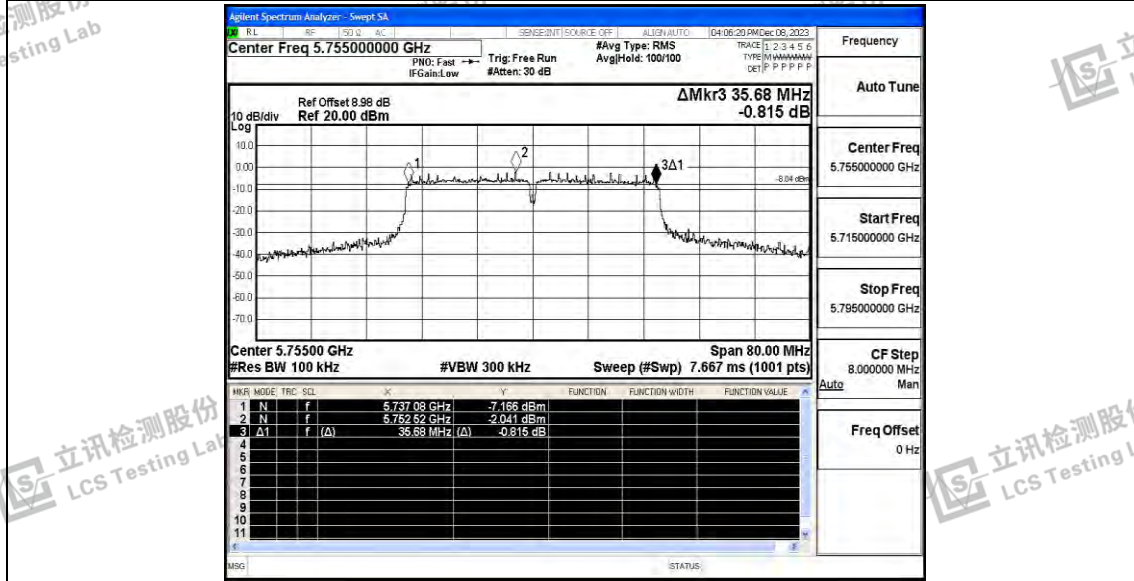


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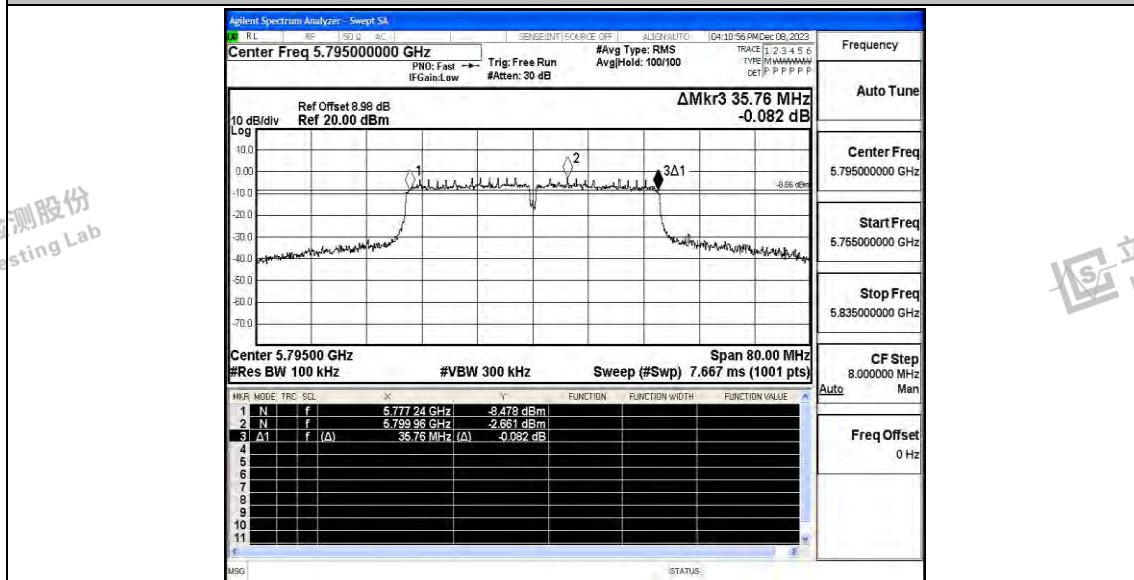


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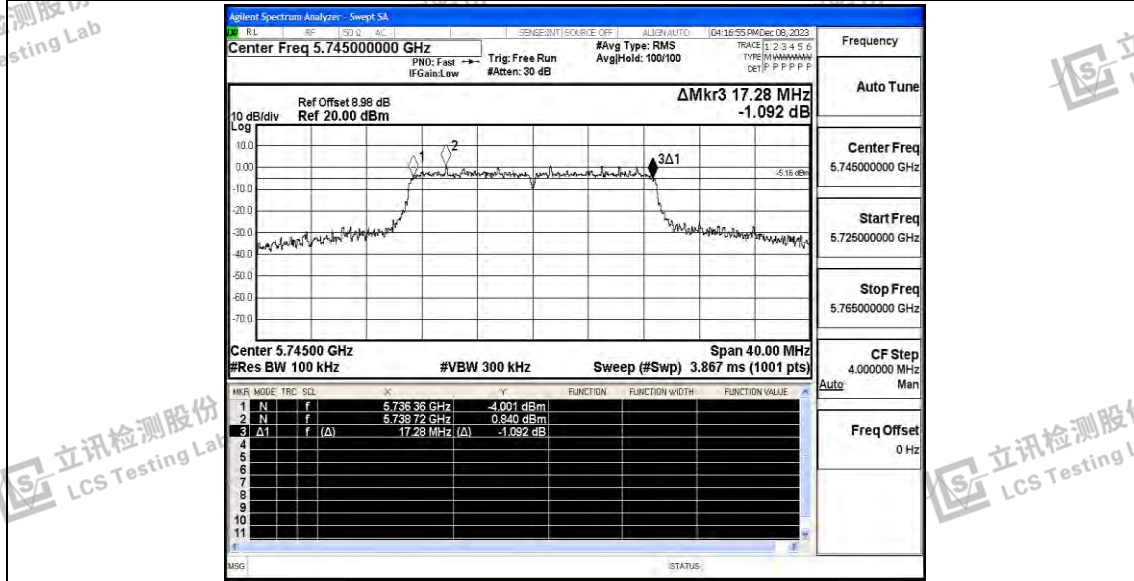


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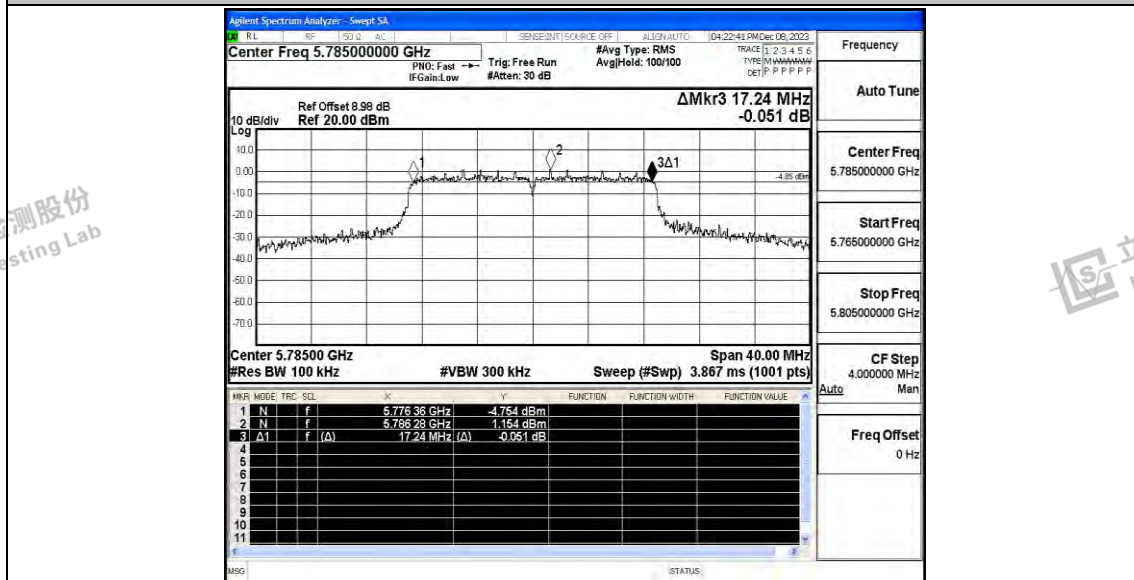


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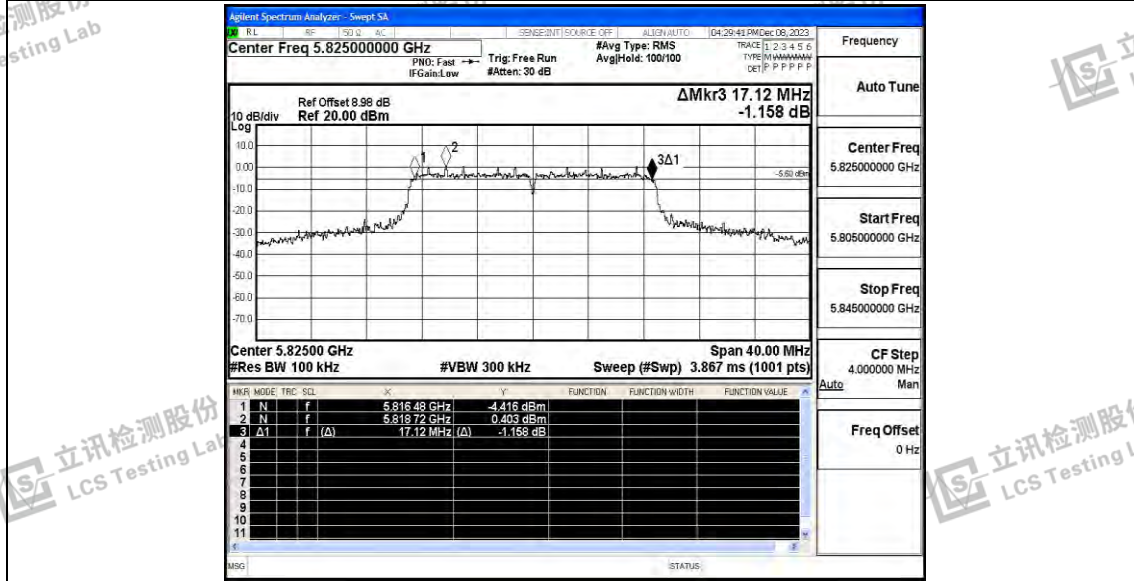


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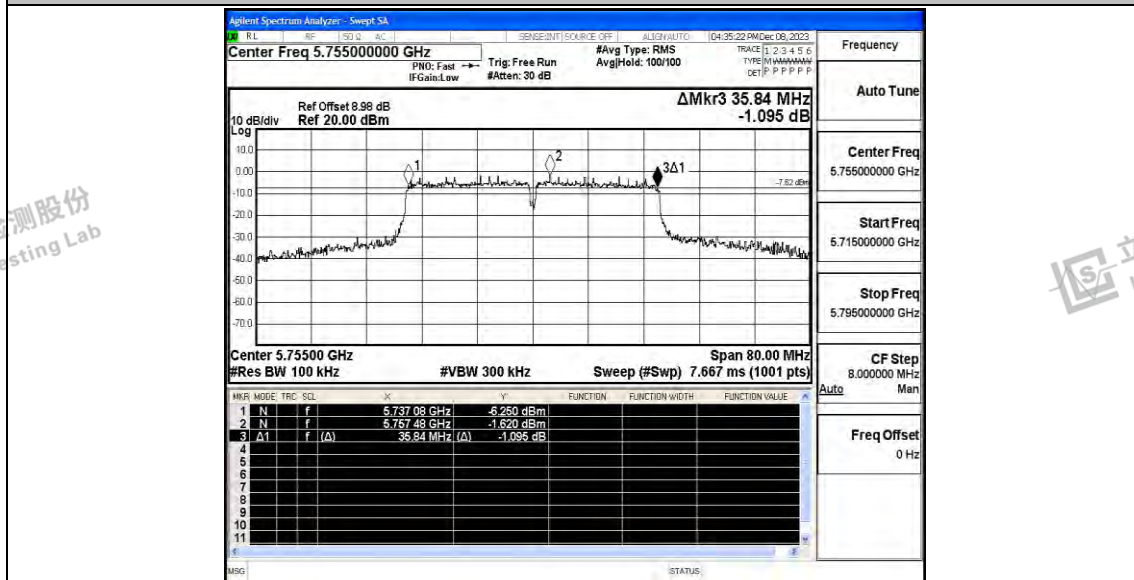


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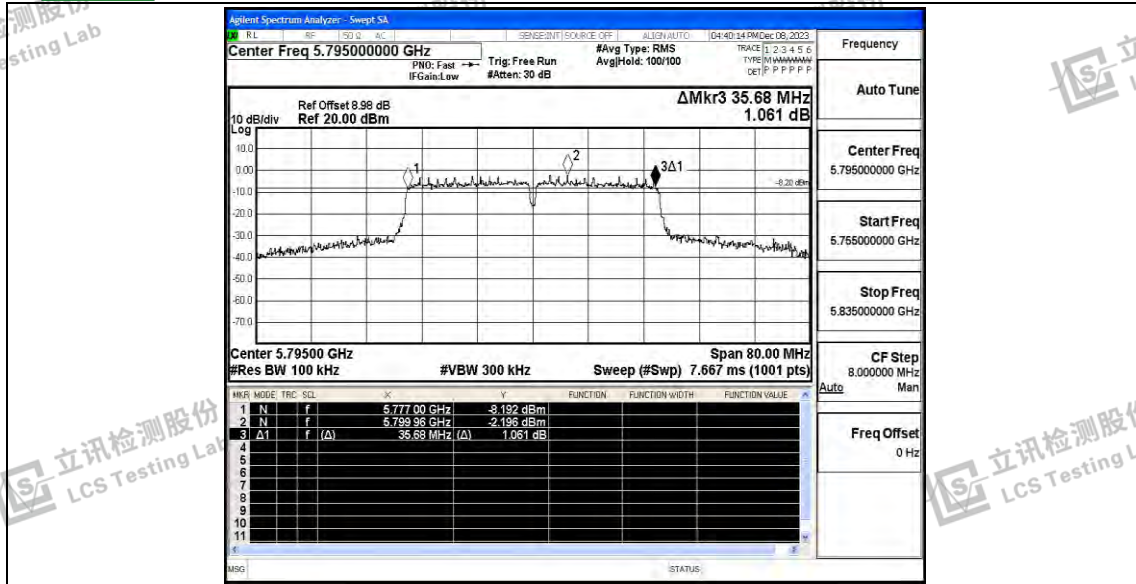


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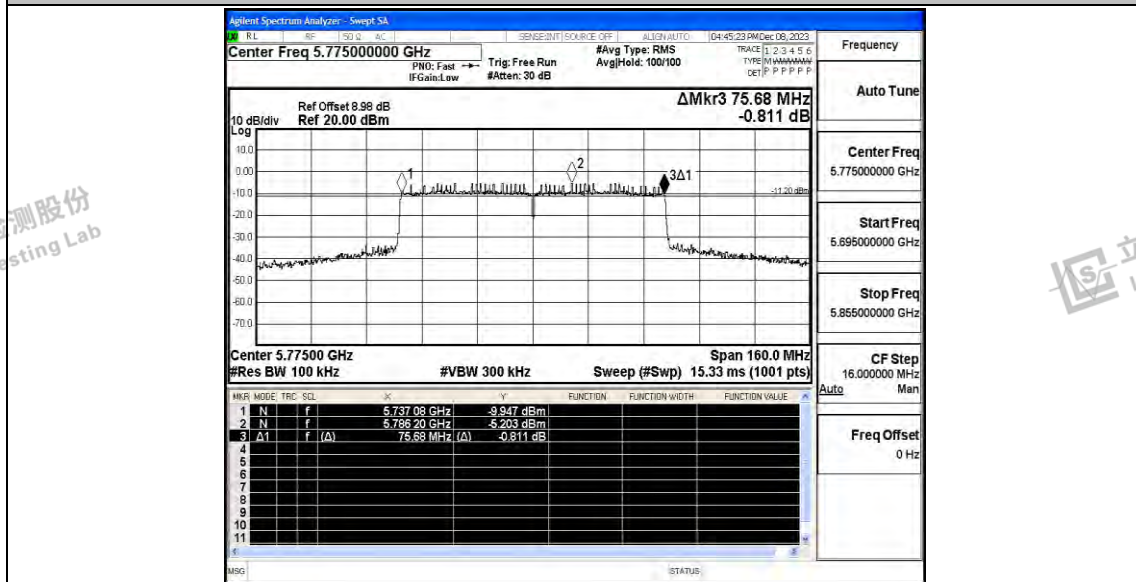


11AC40SISO_Ant0_5795





11AC80SISO_Ant0_5775



**Test Result**

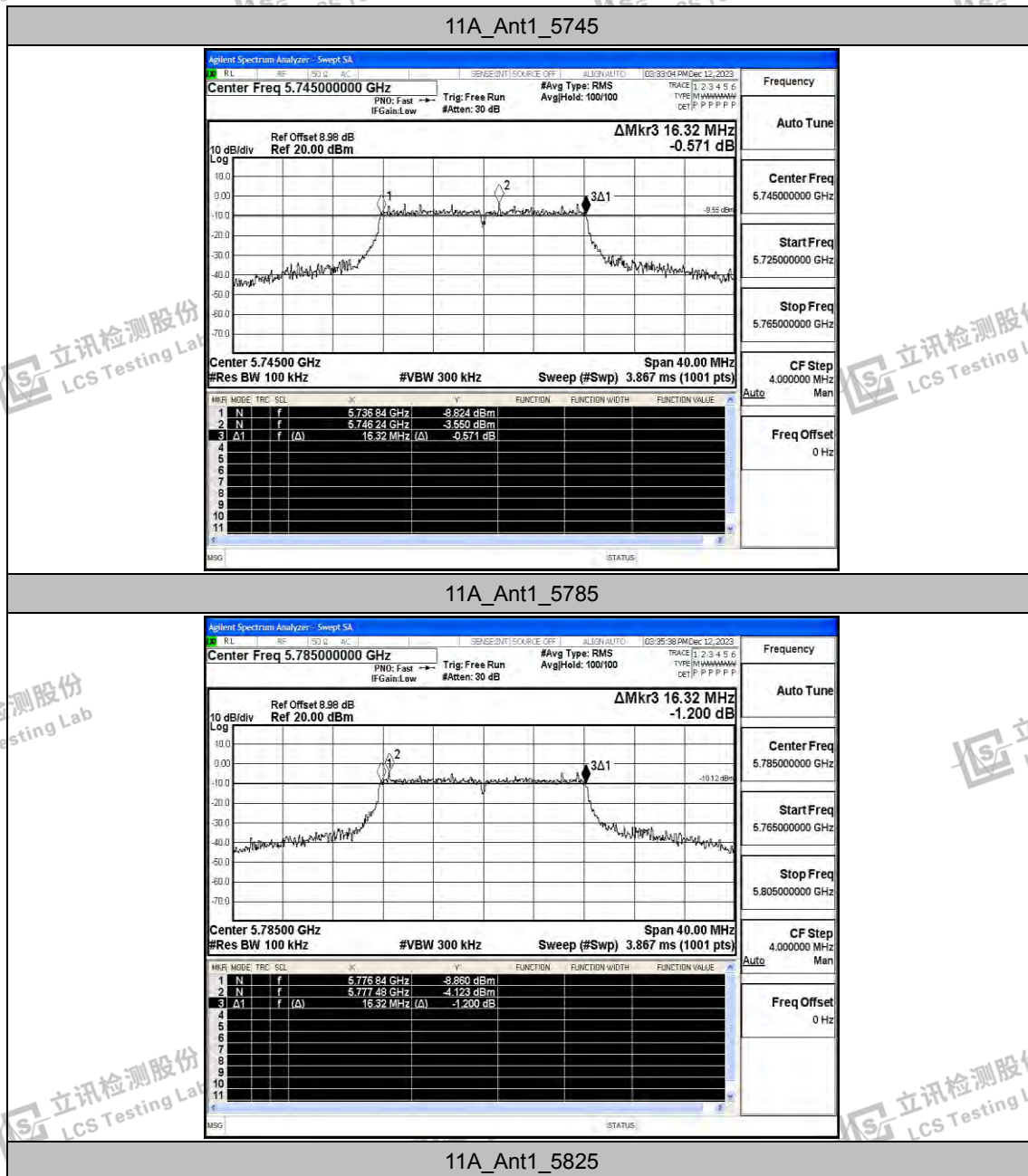
TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.320	5736.840	5753.160	0.5	PASS
		5785	16.320	5776.840	5793.160	0.5	PASS
		5825	16.280	5816.840	5833.120	0.5	PASS
11N20SISO	Ant1	5745	17.520	5736.240	5753.760	0.5	PASS
		5785	17.360	5776.360	5793.720	0.5	PASS
		5825	17.360	5816.240	5833.600	0.5	PASS
11N40SISO	Ant1	5755	35.840	5737.160	5773.000	0.5	PASS
		5795	35.520	5777.240	5812.760	0.5	PASS
11AC20SISO	Ant1	5745	17.280	5736.360	5753.640	0.5	PASS
		5785	17.080	5776.480	5793.560	0.5	PASS
		5825	17.200	5816.400	5833.600	0.5	PASS
11AC40SISO	Ant1	5755	35.840	5737.080	5772.920	0.5	PASS
		5795	35.760	5777.000	5812.760	0.5	PASS
11AC80SISO	Ant1	5775	75.680	5737.080	5812.760	0.5	PASS

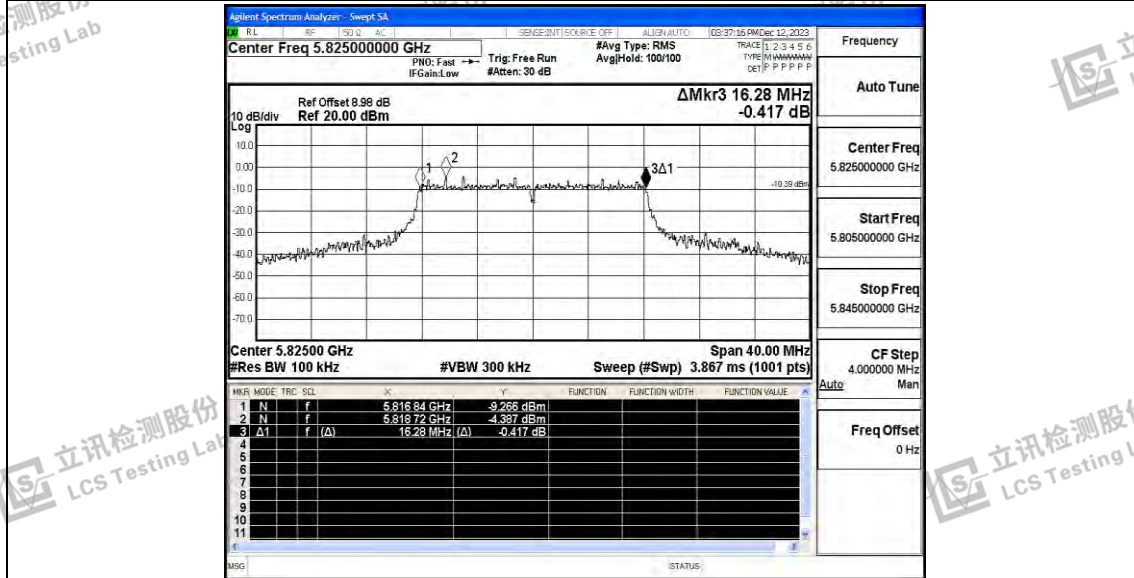


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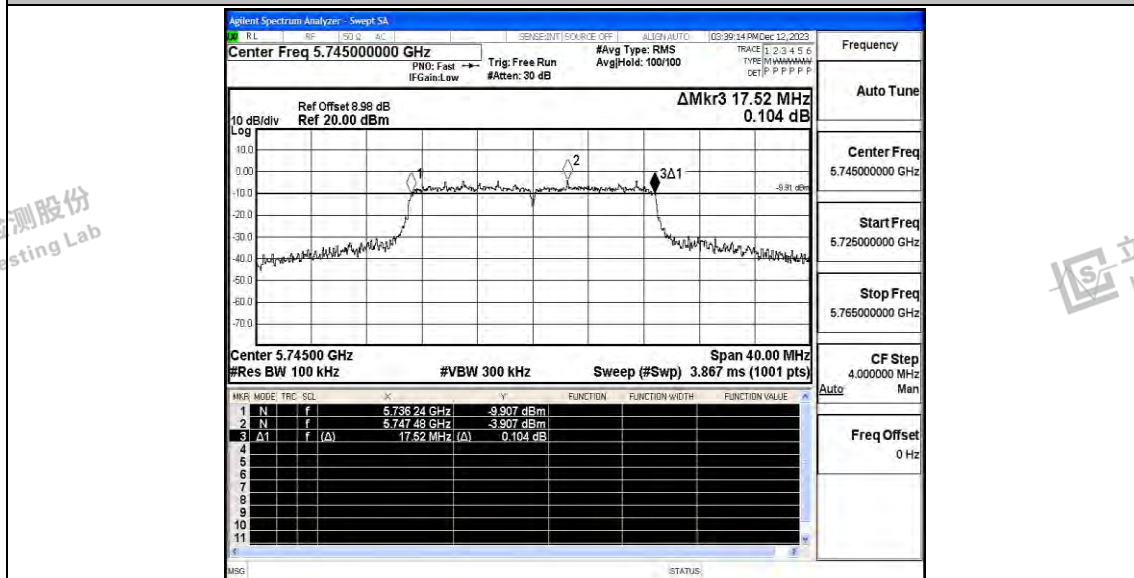


Test Graphs





11N20SISO_Ant1_5745



11N20SISO_Ant1_5785

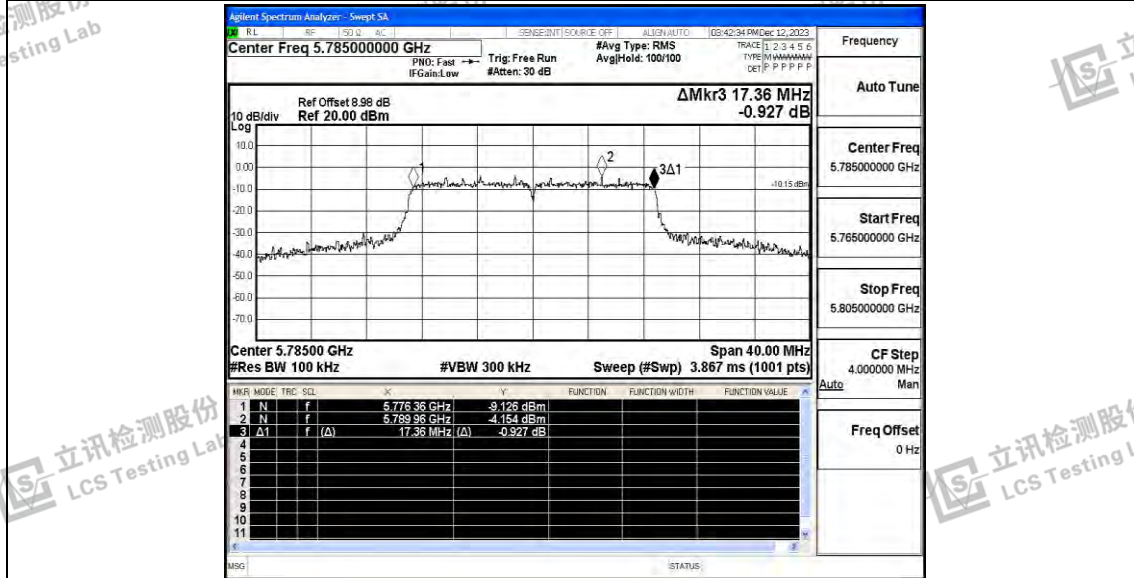


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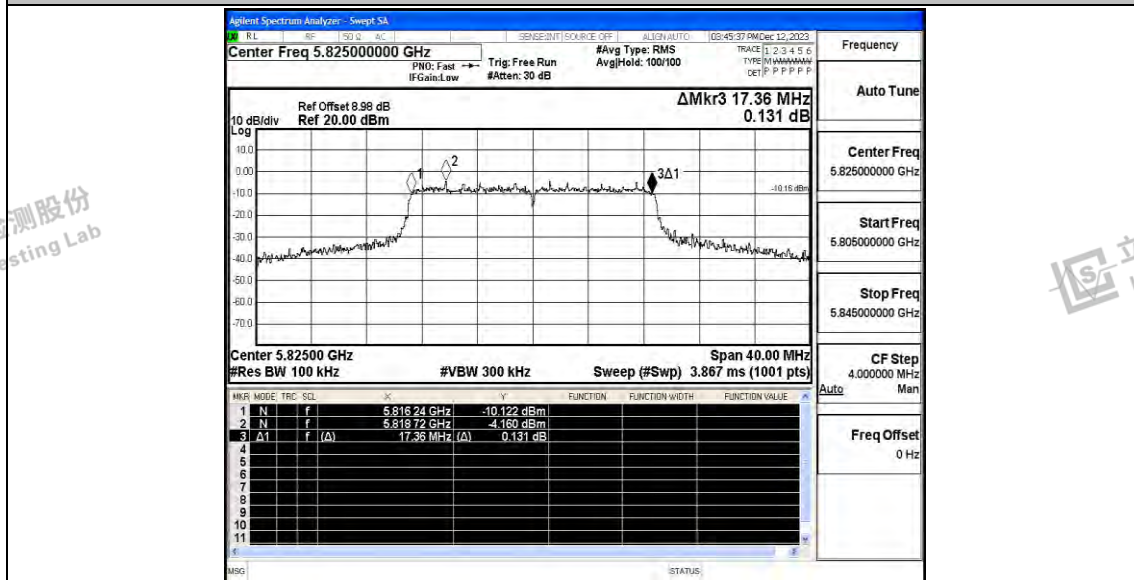
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11N20SISO_Ant1_5825



11N40SISO_Ant1_5755

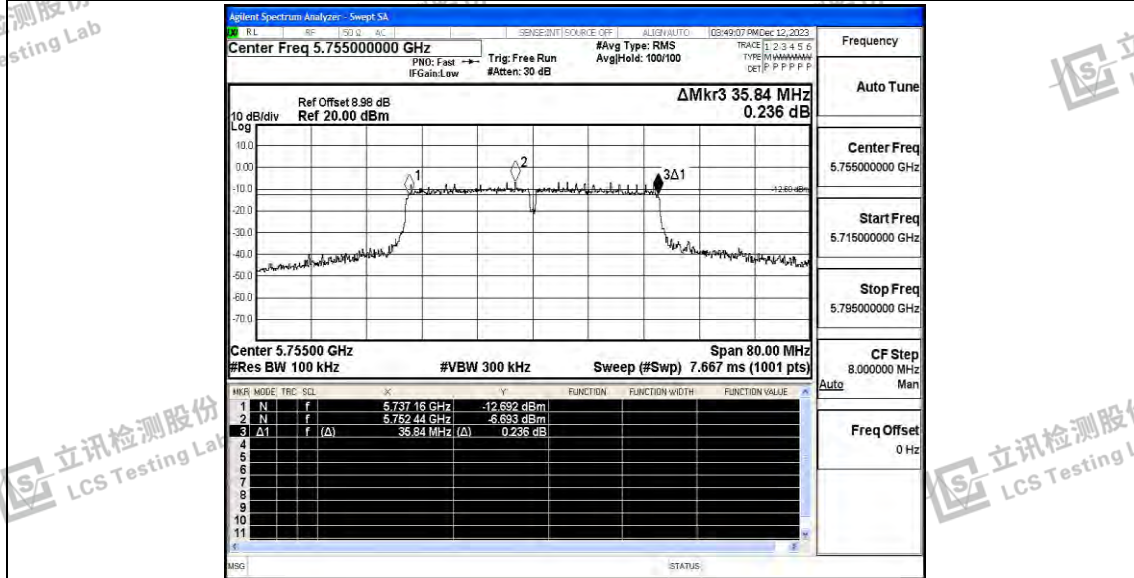


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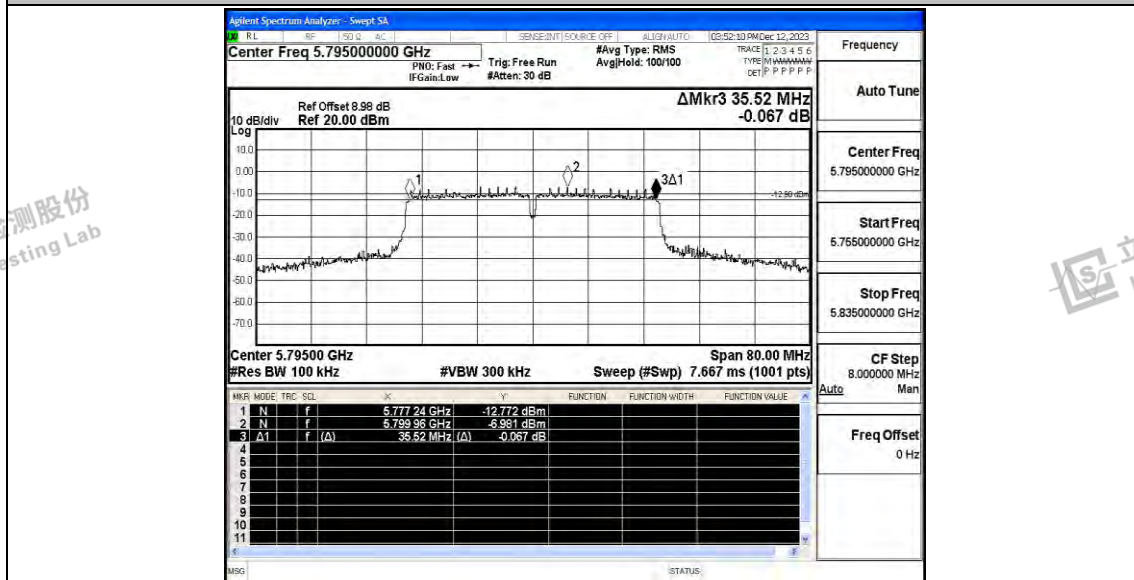
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11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

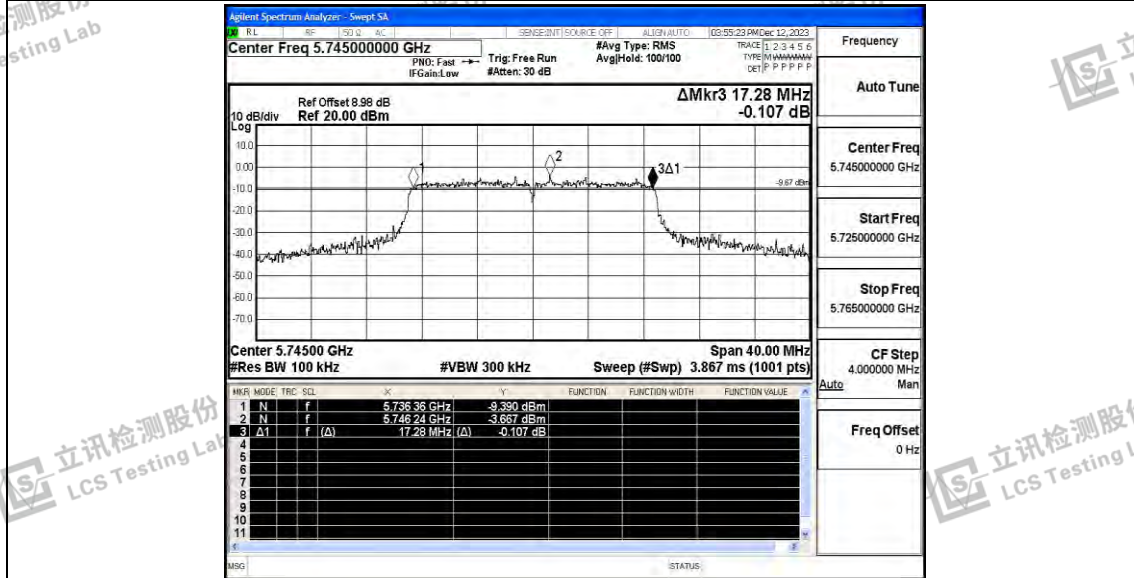


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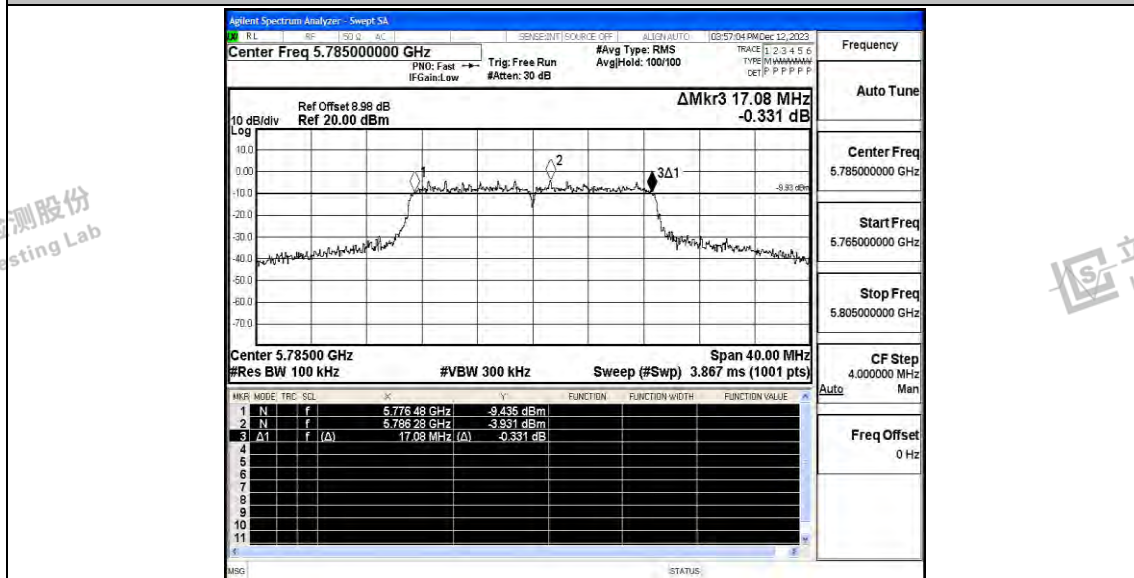
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11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825

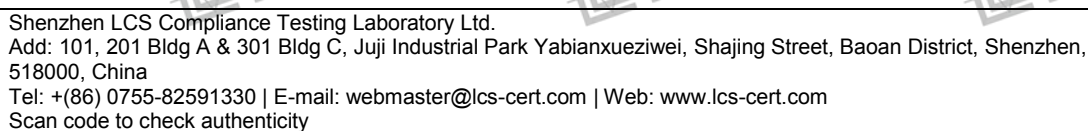
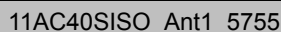


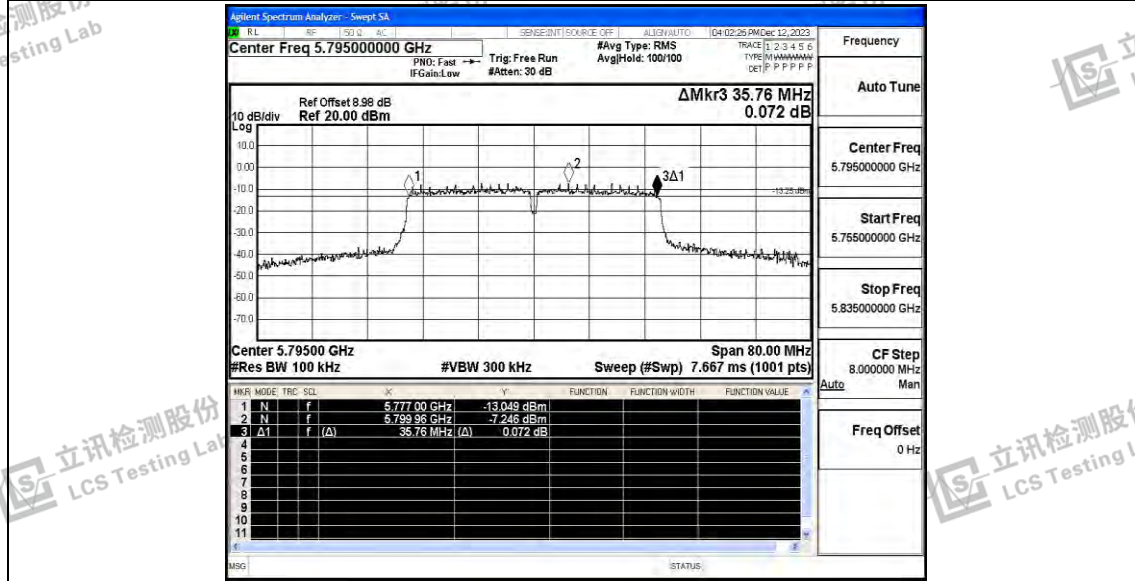
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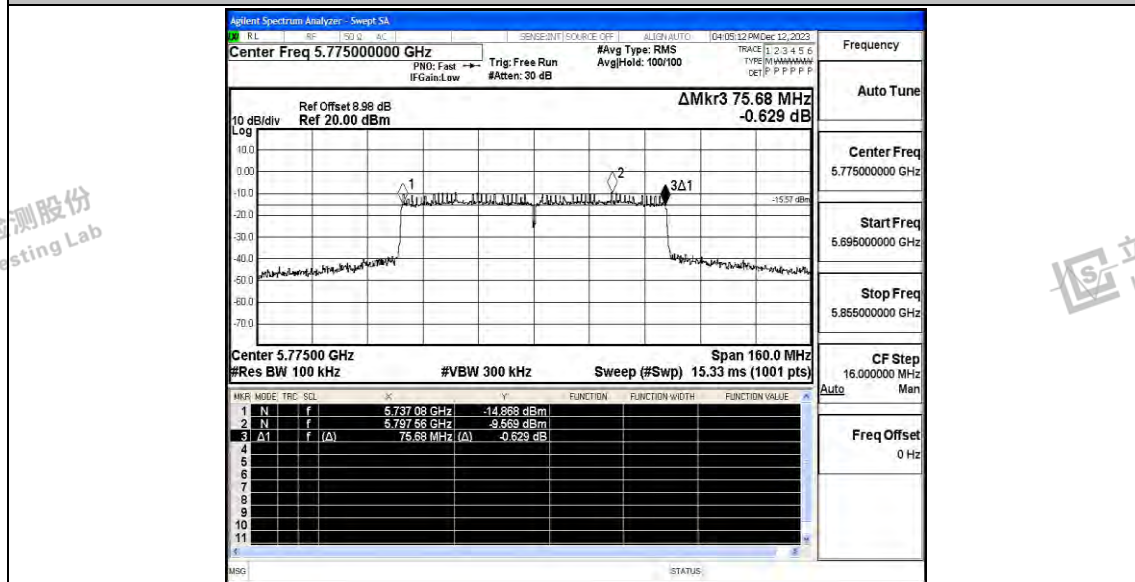
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11AC80SISO_Ant1_5775





E.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	5745	11.86	95.89	0.18	12.04	≤30.00	PASS
		5785	11.33	95.89	0.18	11.51	≤30.00	PASS
		5825	10.75	95.89	0.18	10.93	≤30.00	PASS
11N20SISO	Ant0	5745	12.58	95.16	0.22	12.80	≤30.00	PASS
		5785	12.10	94.40	0.25	12.35	≤30.00	PASS
		5825	11.11	95.16	0.22	11.33	≤30.00	PASS
11N40SISO	Ant0	5755	11.60	89.23	0.49	12.09	≤30.00	PASS
		5795	11.15	89.23	0.49	11.64	≤30.00	PASS
11AC20SISO	Ant0	5745	12.60	94.44	0.25	12.85	≤30.00	PASS
		5785	12.05	94.40	0.25	12.30	≤30.00	PASS
		5825	11.53	95.20	0.21	11.74	≤30.00	PASS
11AC40SISO	Ant0	5755	12.03	89.39	0.49	12.52	≤30.00	PASS
		5795	11.58	90.91	0.41	11.99	≤30.00	PASS
11AC80SISO	Ant0	5775	11.03	83.33	0.79	11.82	≤30.00	PASS

Test Mode	Antenna	Frequency[MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	7.23	95.21	0.21	7.44	≤30.00	PASS
		5785	6.84	95.21	0.21	7.05	≤30.00	PASS
		5825	6.66	95.21	0.21	6.87	≤30.00	PASS
11N20SISO	Ant1	5745	7.46	95.16	0.22	7.68	≤30.00	PASS
		5785	7.30	95.16	0.22	7.52	≤30.00	PASS
		5825	6.99	95.16	0.22	7.21	≤30.00	PASS
11N40SISO	Ant1	5755	7.06	89.23	0.49	7.55	≤30.00	PASS
		5795	6.88	90.77	0.42	7.30	≤30.00	PASS
11AC20SISO	Ant1	5745	7.58	95.20	0.21	7.79	≤30.00	PASS
		5785	7.32	95.20	0.21	7.53	≤30.00	PASS
		5825	6.94	95.20	0.21	7.15	≤30.00	PASS
11AC40SISO	Ant1	5755	6.90	89.39	0.49	7.39	≤30.00	PASS
		5795	6.75	90.77	0.42	7.17	≤30.00	PASS
11AC80SISO	Ant1	5775	6.45	80.56	0.94	7.39	≤30.00	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	5745	12.80	7.68	13.96	30	Pass
NVNT	n20	5785	12.35	7.52	13.58	30	Pass
NVNT	n20	5825	11.33	7.21	12.75	30	Pass
NVNT	n40	5755	12.09	7.55	13.40	30	Pass
NVNT	n40	5795	11.64	7.30	13.00	30	Pass
NVNT	ac20	5745	12.85	7.79	14.03	30	Pass
NVNT	ac20	5785	12.30	7.53	13.55	30	Pass
NVNT	ac20	5825	11.74	7.15	13.04	30	Pass
NVNT	ac40	5755	12.52	7.39	13.68	30	Pass
NVNT	ac40	5795	11.99	7.17	13.23	30	Pass
NVNT	ac80	5775	11.82	7.39	13.16	30	Pass





E.3 Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/300KHz]	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
11A	Ant0	5745	-2.36	-0.14	≤30.00	PASS
		5785	-2.94	-0.72	≤30.00	PASS
		5825	-3.67	-1.45	≤30.00	PASS
11N20SISO	Ant0	5745	-1.88	0.34	≤30.00	PASS
		5785	-2.36	-0.14	≤30.00	PASS
		5825	-3.38	-1.16	≤30.00	PASS
11N40SISO	Ant0	5755	-5.32	-3.10	≤30.00	PASS
		5795	-5.69	-3.47	≤30.00	PASS
11AC20SISO	Ant0	5745	-1.85	0.37	≤30.00	PASS
		5785	-2.39	-0.17	≤30.00	PASS
		5825	-3.13	-0.91	≤30.00	PASS
11AC40SISO	Ant0	5755	-4.67	-2.45	≤30.00	PASS
		5795	-5.59	-3.37	≤30.00	PASS
11AC80SISO	Ant0	5775	-8.44	-6.22	≤30.00	PASS

TestMode	Antenna	Frequency[MHz]	Result [dBm/300KHz]	Result [dBm/500KHz]	Limit [dBm/500KHz]	Verdict
11A	Ant1	5745	-6.99	-4.77	≤30.00	PASS
		5785	-7.37	-5.15	≤30.00	PASS
		5825	-7.58	-5.36	≤30.00	PASS
11N20SISO	Ant1	5745	-6.82	-4.60	≤30.00	PASS
		5785	-7.19	-4.97	≤30.00	PASS
		5825	-7.44	-5.22	≤30.00	PASS
11N40SISO	Ant1	5755	-9.71	-7.49	≤30.00	PASS
		5795	-10.24	-8.02	≤30.00	PASS
11AC20SISO	Ant1	5745	-6.77	-4.55	≤30.00	PASS
		5785	-7.26	-5.04	≤30.00	PASS
		5825	-7.44	-5.22	≤30.00	PASS
11AC40SISO	Ant1	5755	-10.04	-7.82	≤30.00	PASS
		5795	-10.12	-7.90	≤30.00	PASS
11AC80SISO	Ant1	5775	-12.92	-10.70	≤30.00	PASS



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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

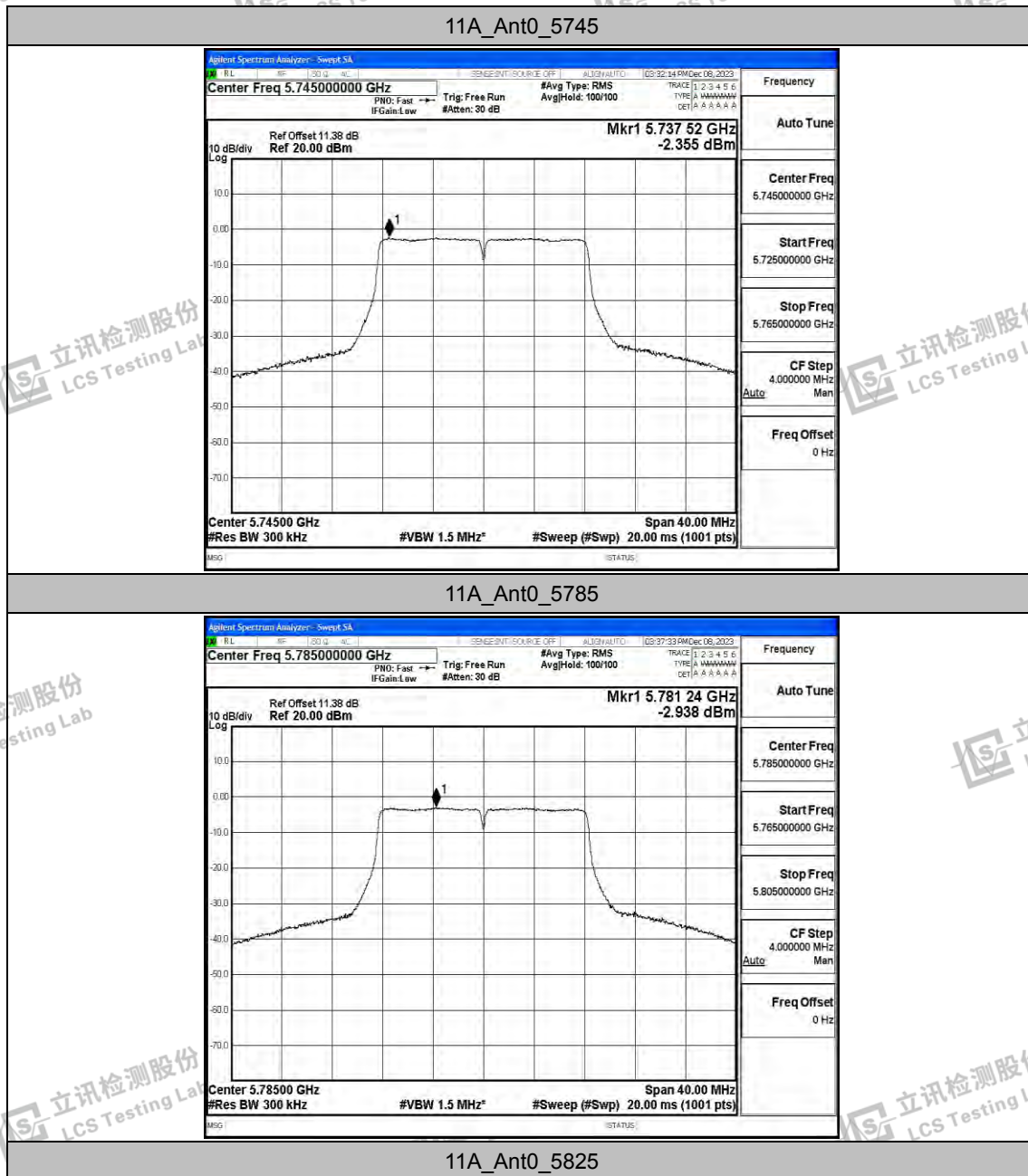
Condition	Mode	Frequency (MHz)	Total PSD (dBm/500KHz)			Limit (dBm/500KHz)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5745	0.34	-4.77	1.51	30	Pass
NVNT	n20	5785	-0.14	-5.15	1.05	30	Pass
NVNT	n20	5825	-1.16	-5.36	0.24	30	Pass
NVNT	n40	5755	-3.10	-4.60	-0.78	30	Pass
NVNT	n40	5795	-3.47	-4.97	-1.15	30	Pass
NVNT	ac20	5745	0.37	-5.22	1.43	30	Pass
NVNT	ac20	5785	-0.17	-7.49	0.57	30	Pass
NVNT	ac20	5825	-0.91	-8.02	-0.14	30	Pass
NVNT	ac40	5755	-2.45	-4.55	-0.36	30	Pass
NVNT	ac40	5795	-3.37	-5.04	-1.11	30	Pass
NVNT	ac80	5775	-6.22	-5.22	-2.68	30	Pass

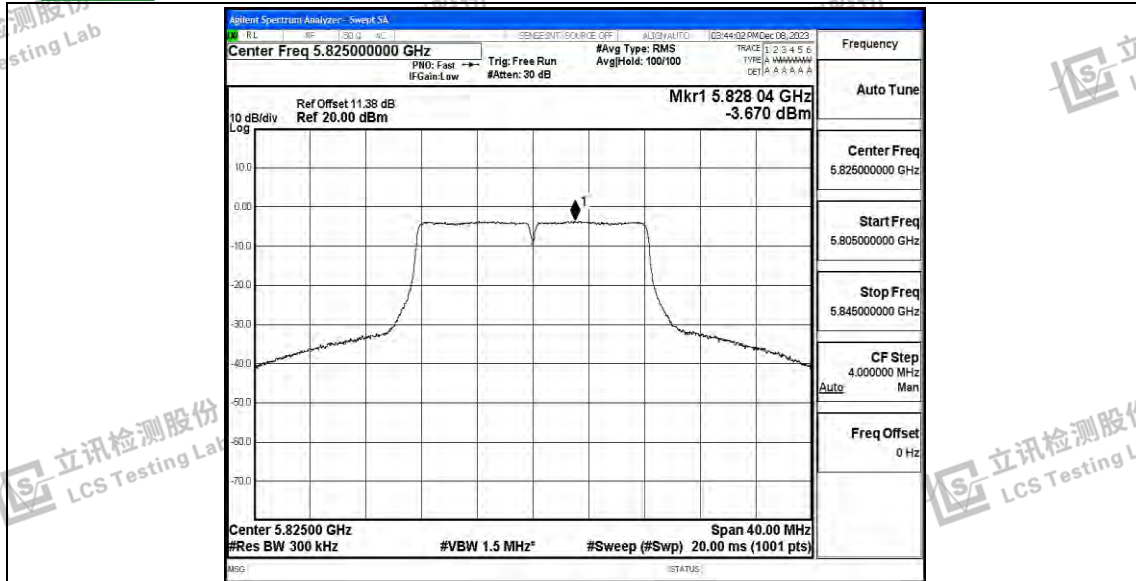


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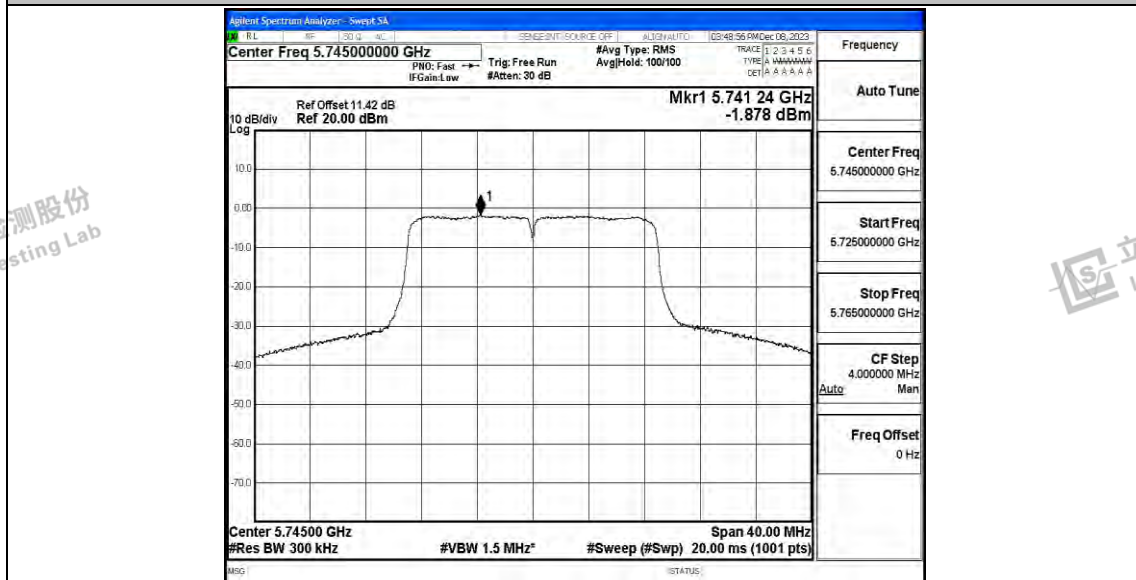


Test Graphs



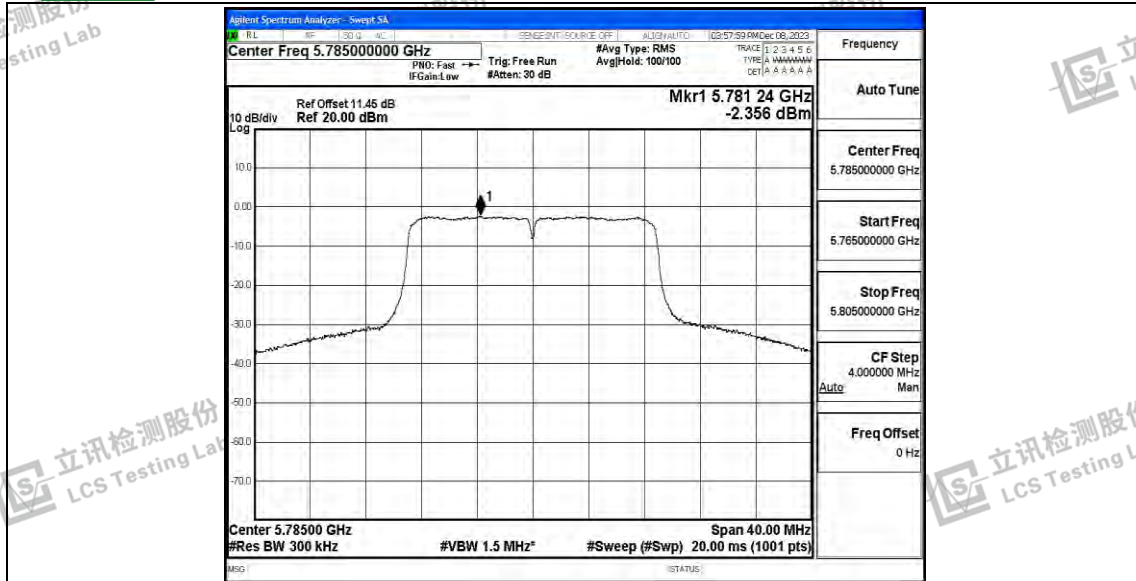


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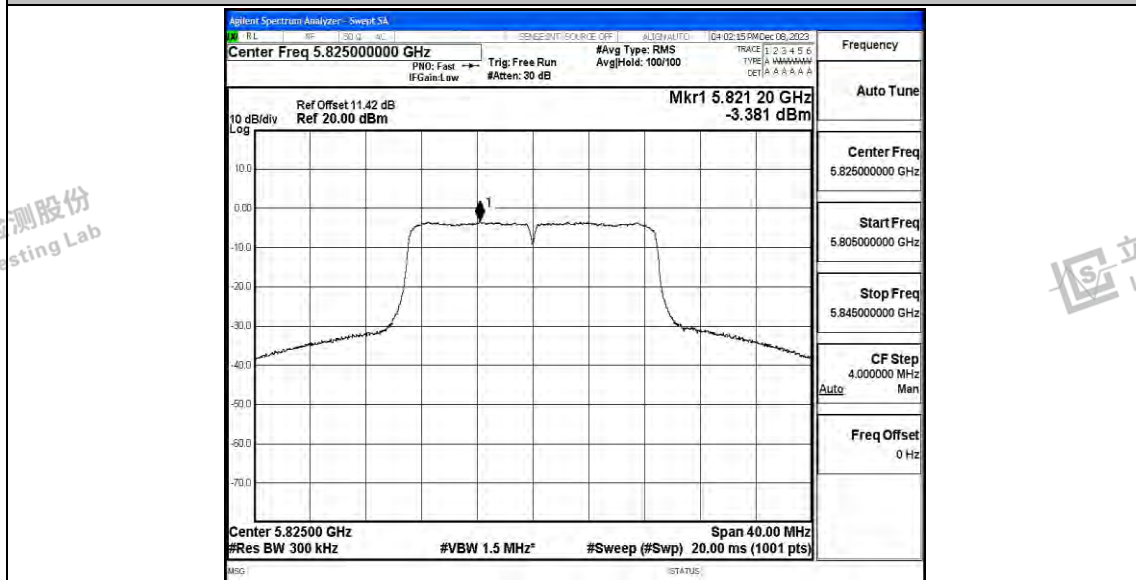


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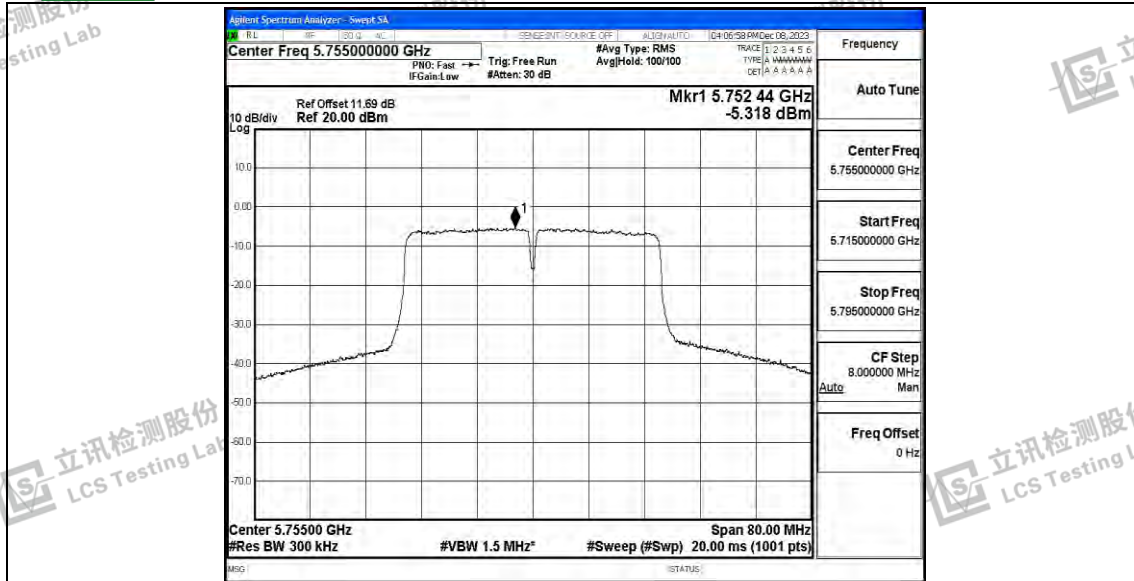


11N20SISO_Ant0_5825

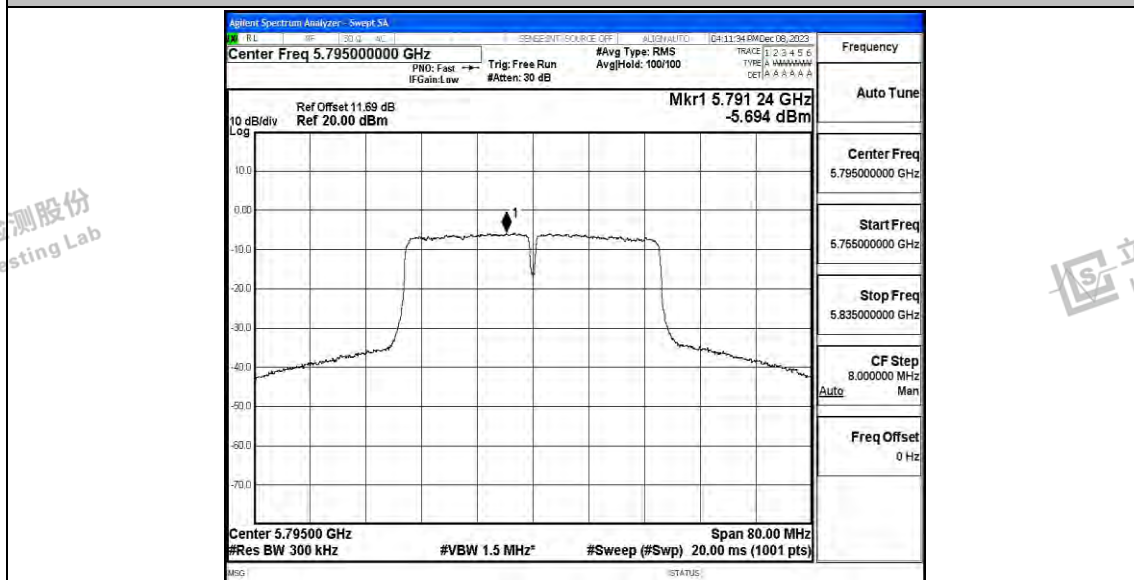


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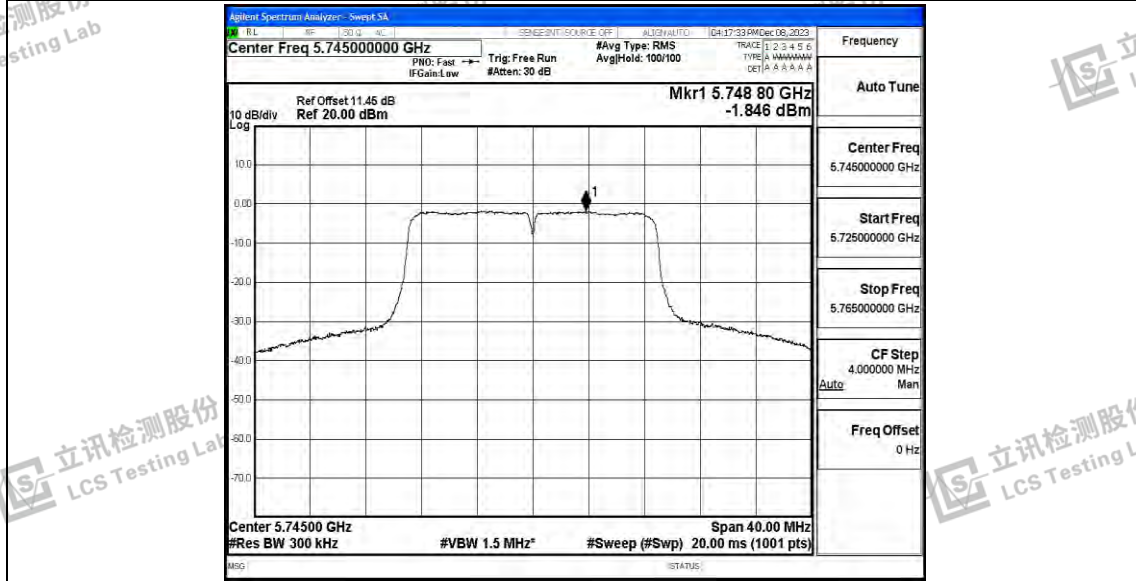


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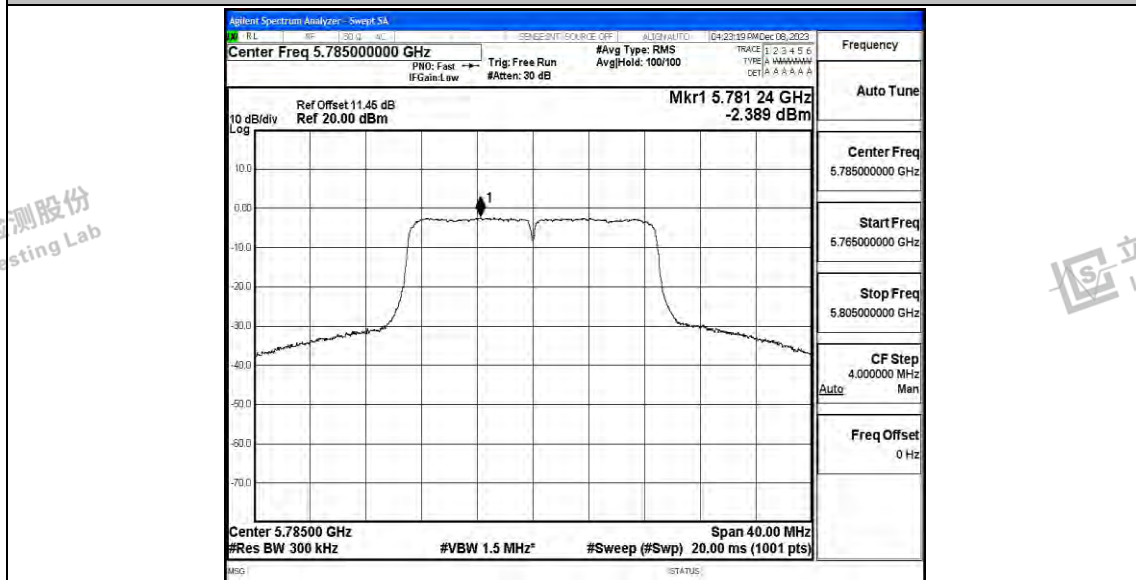


11AC20SISO_Ant0_5745





11AC20SISO_Ant0_5785



11AC20SISO_Ant0_5825

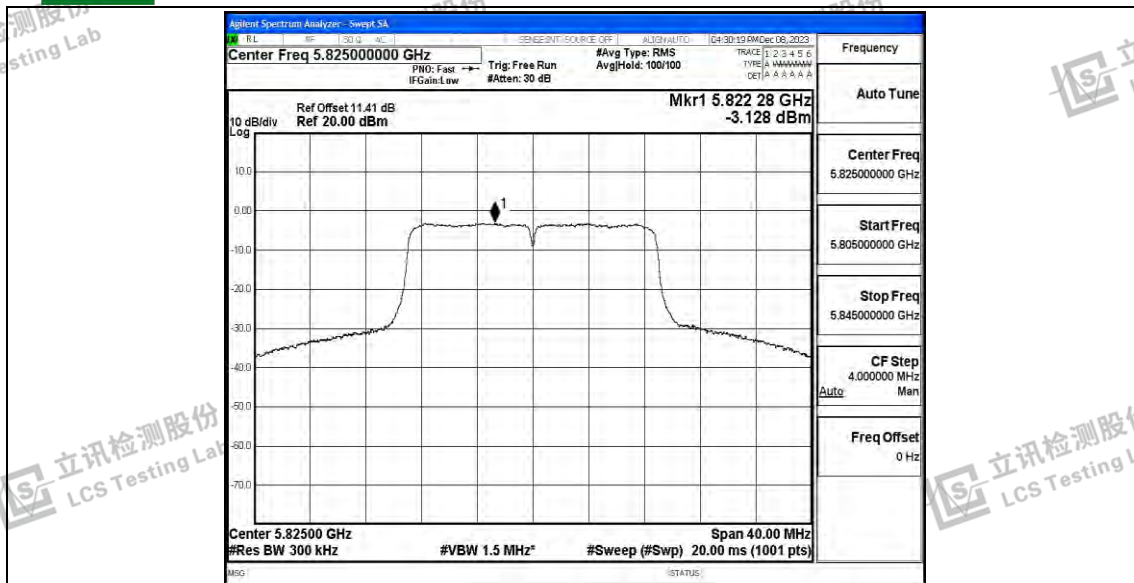


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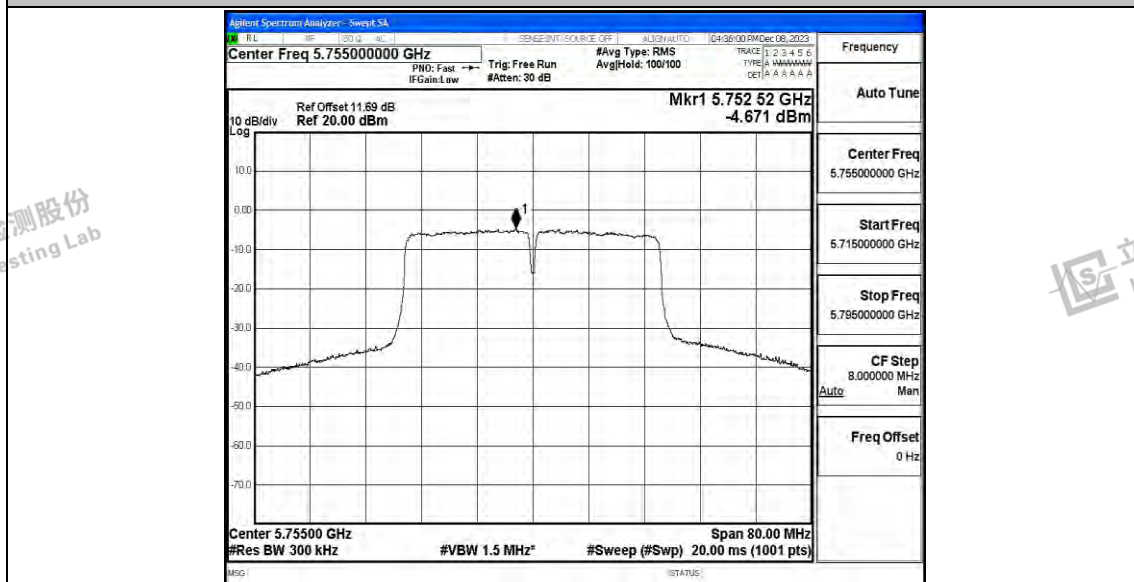
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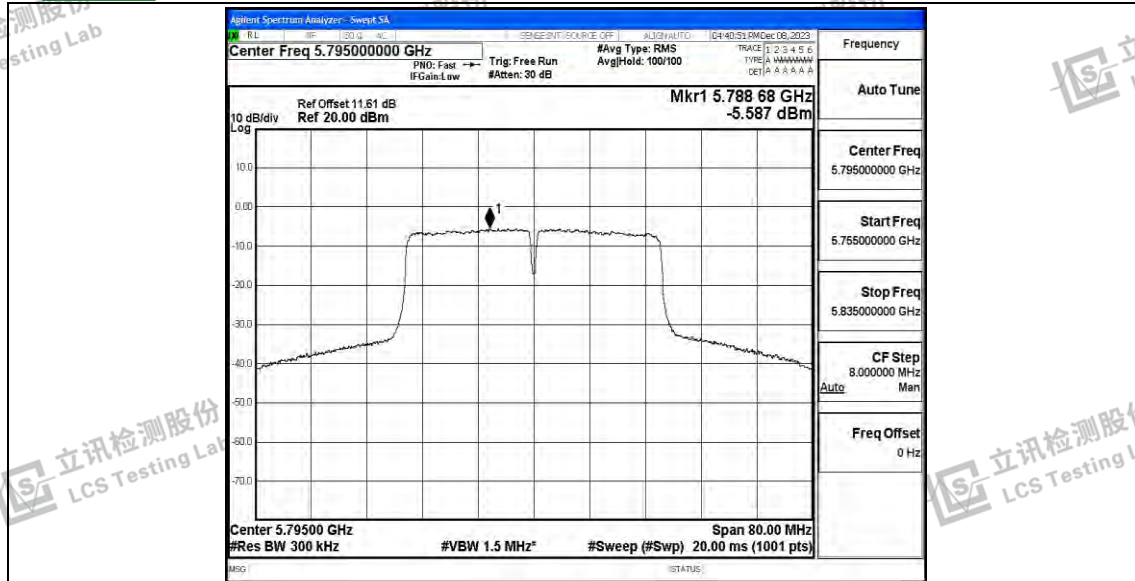


11AC40SISO_Ant0_5755

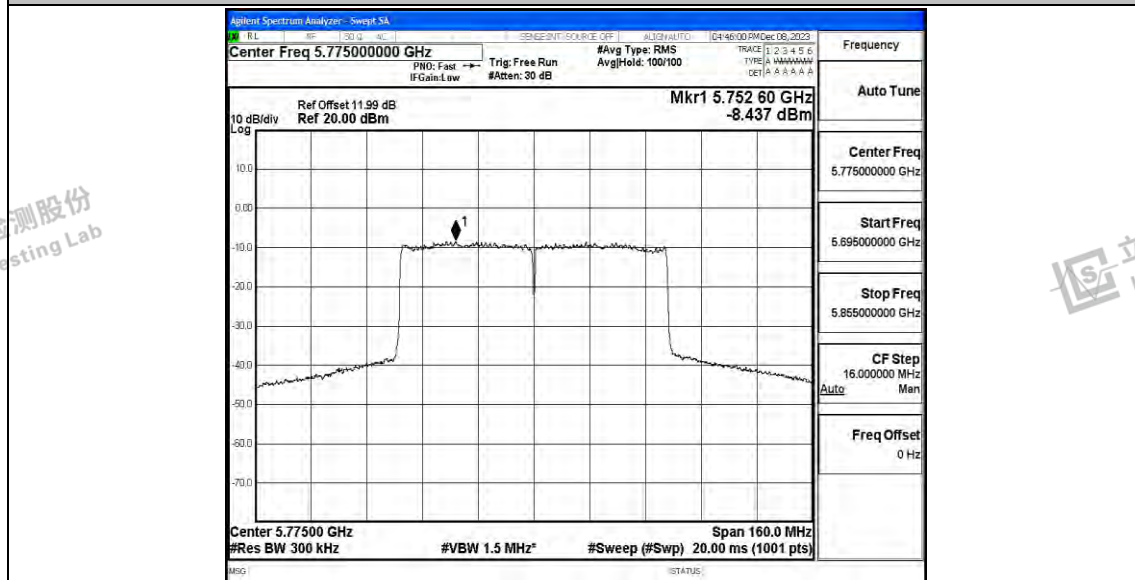


11AC40SISO_Ant0_5795



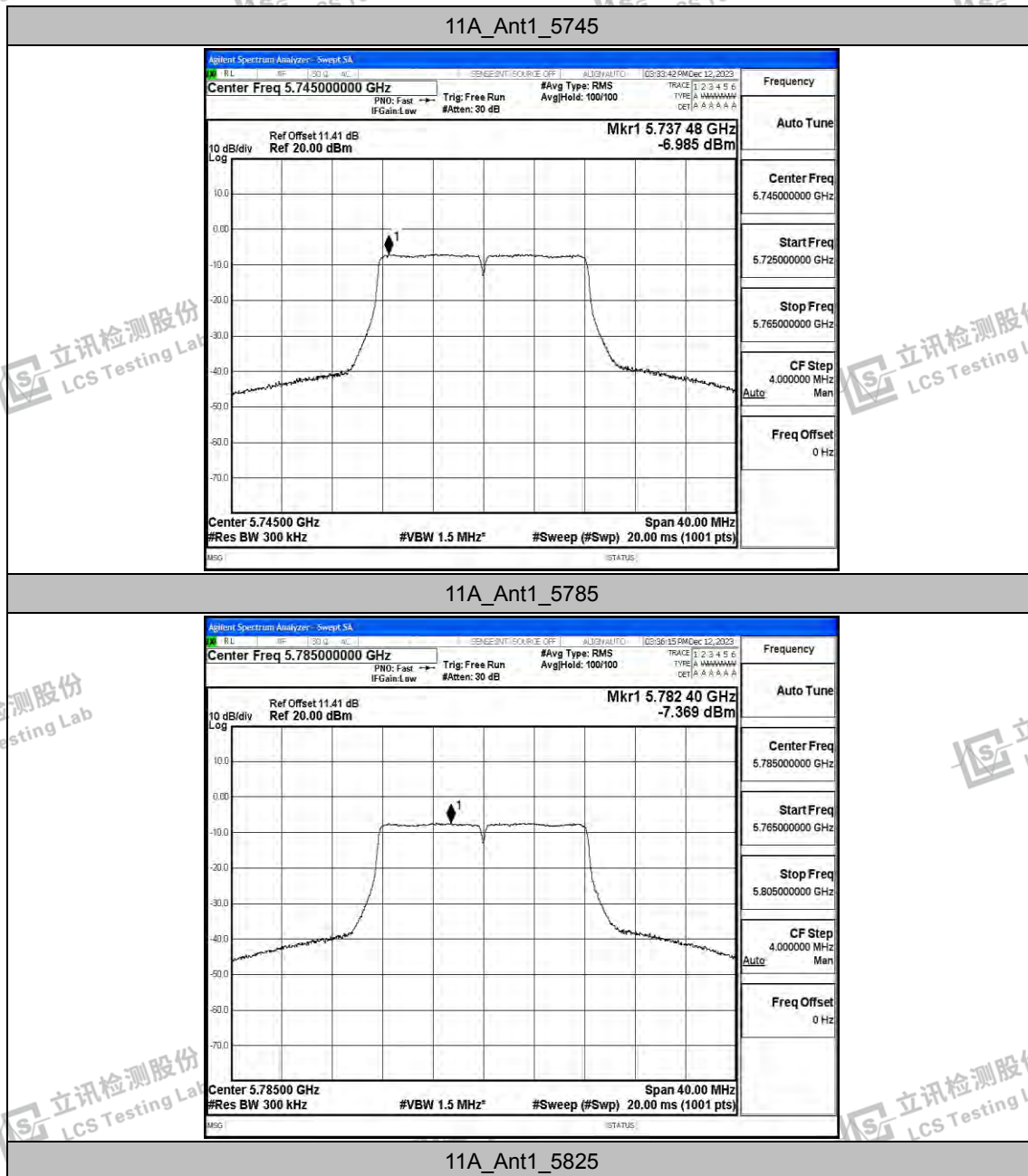


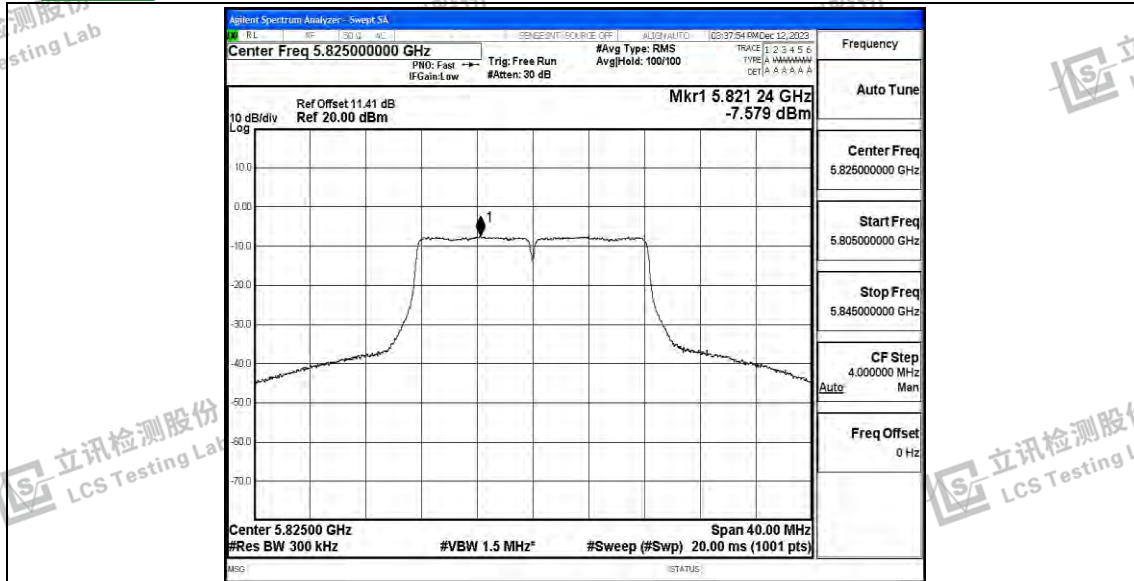
11AC80SISO_Ant0_5775



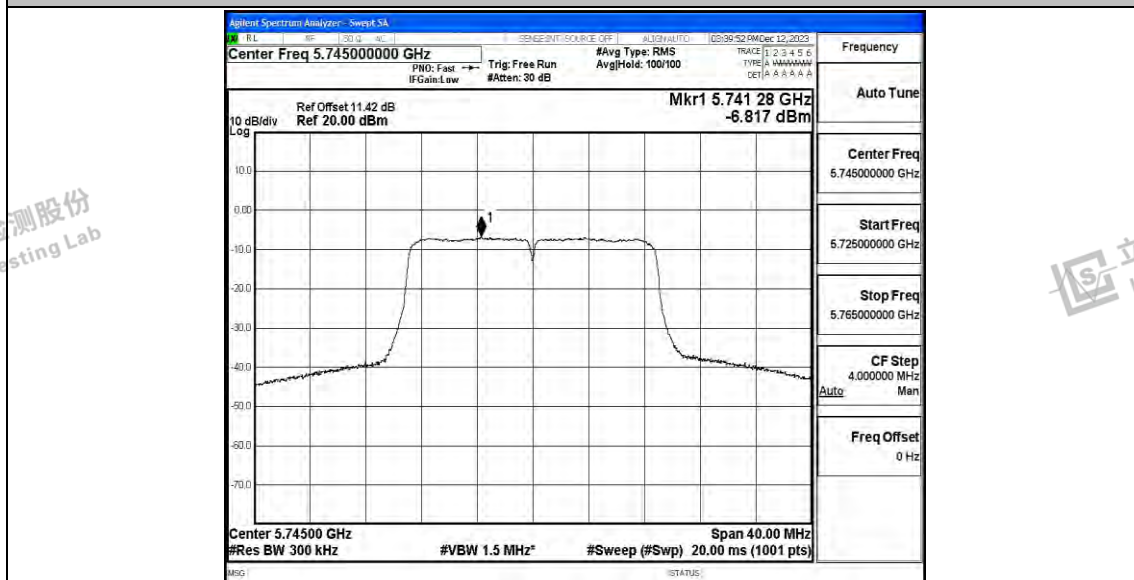


Test Graphs



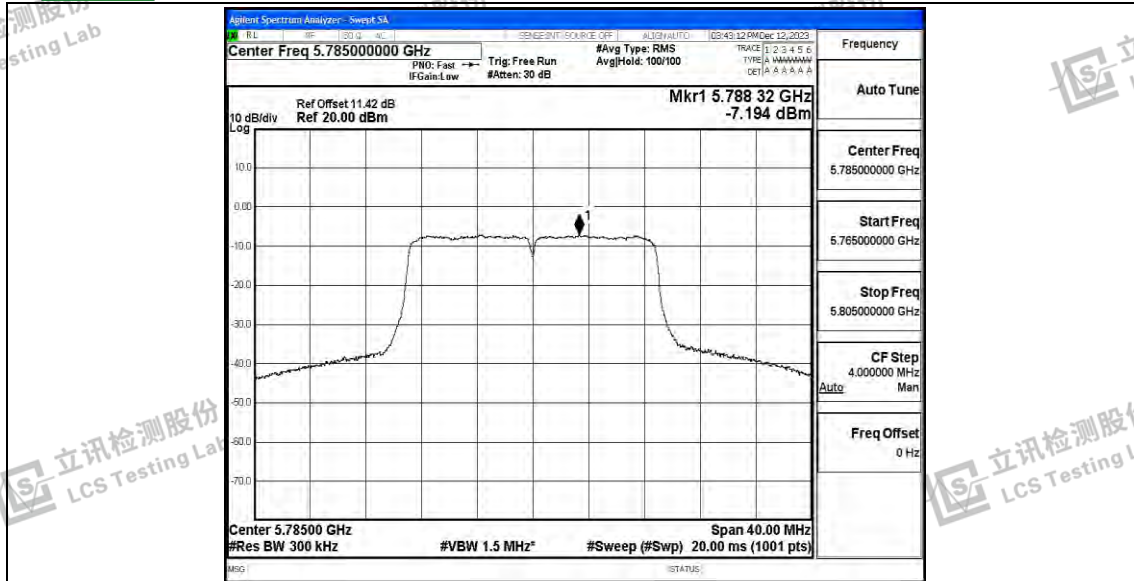


11N20SISO_Ant1_5745

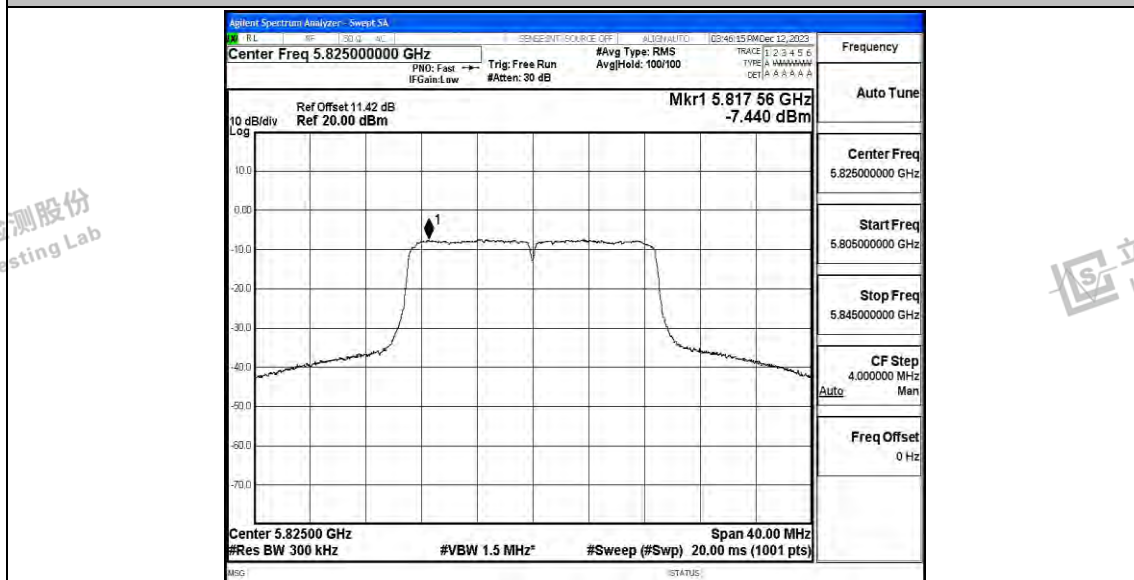


11N20SISO_Ant1_5785



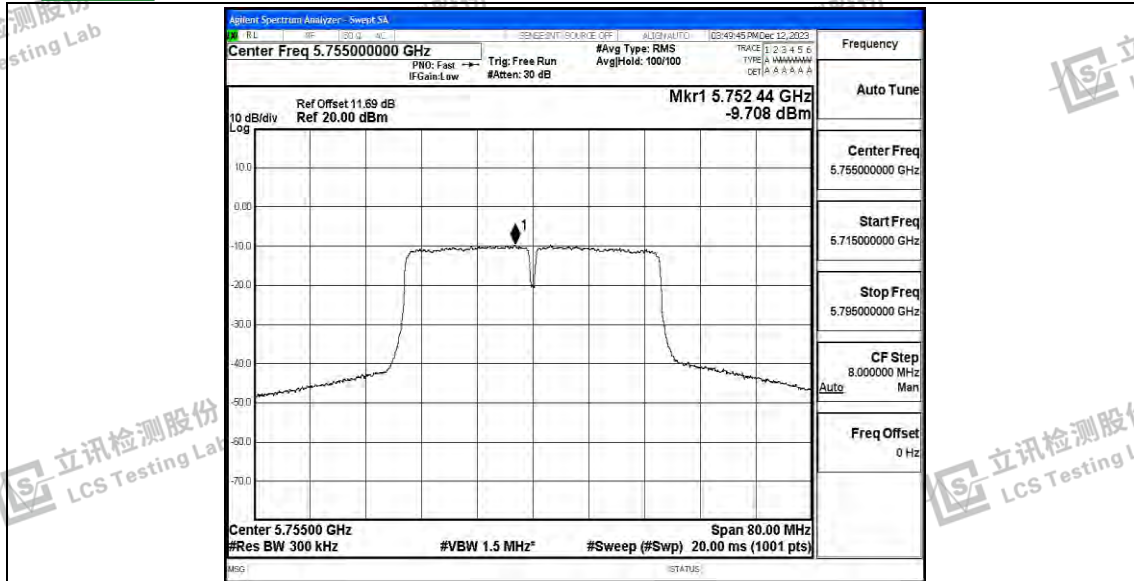


11N20SISO_Ant1_5825

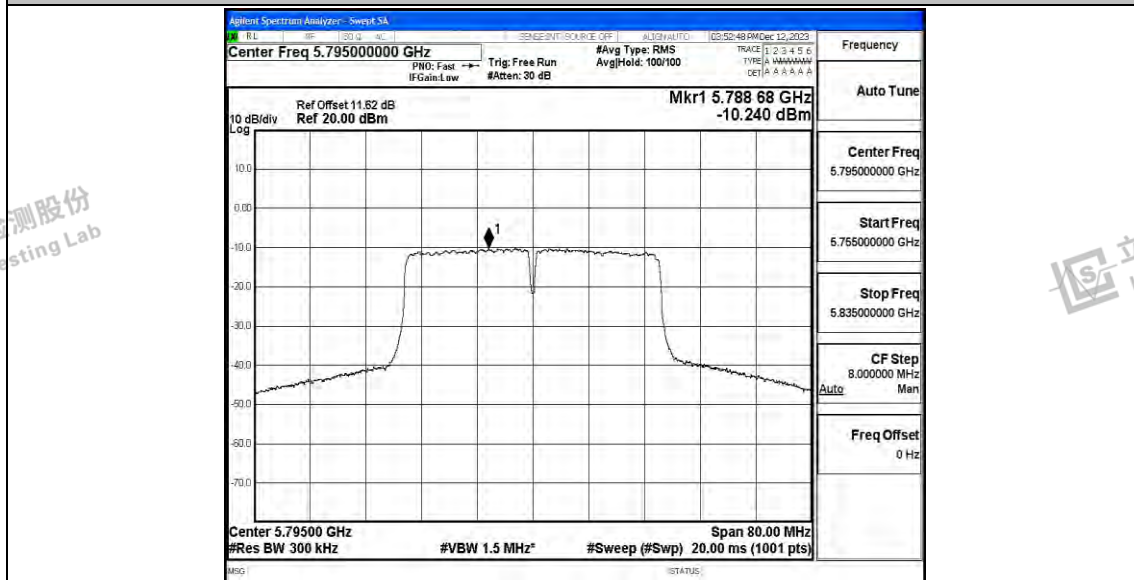


11N40SISO_Ant1_5755



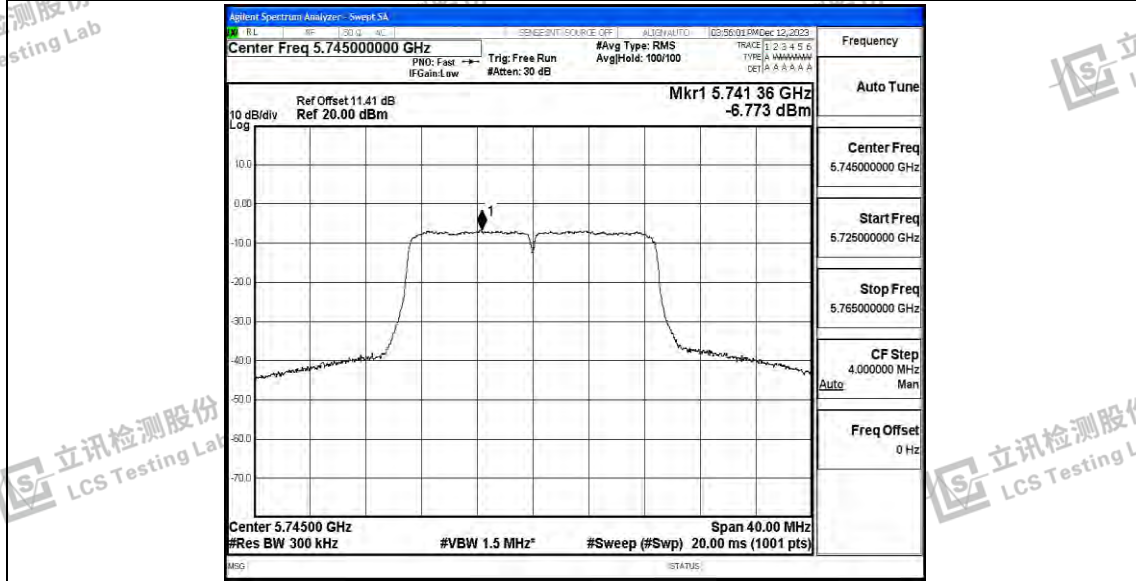


11N40SISO_Ant1_5795

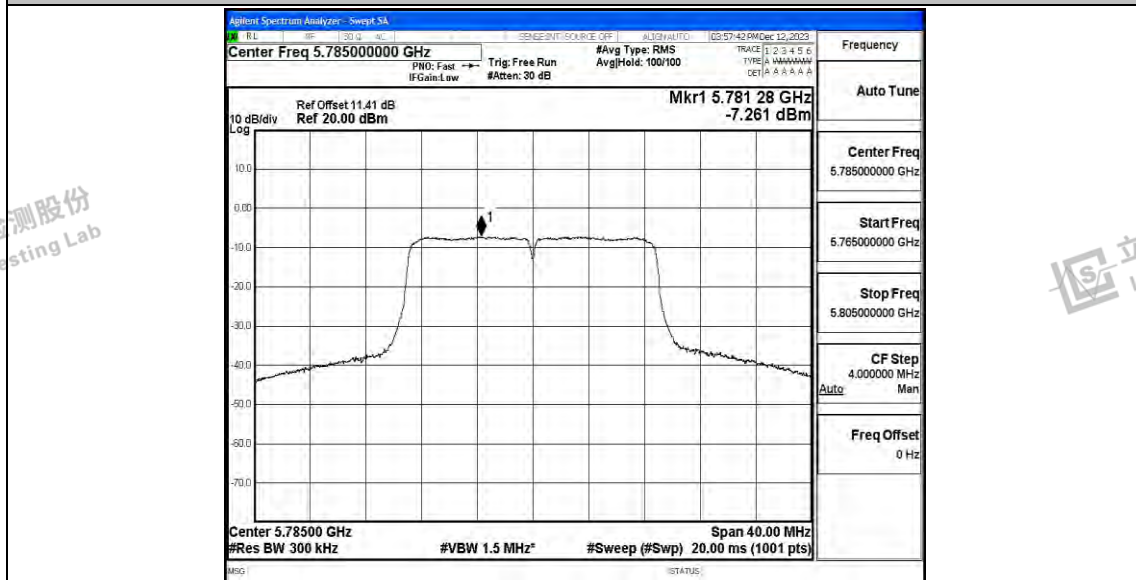


11AC20SISO_Ant1_5745



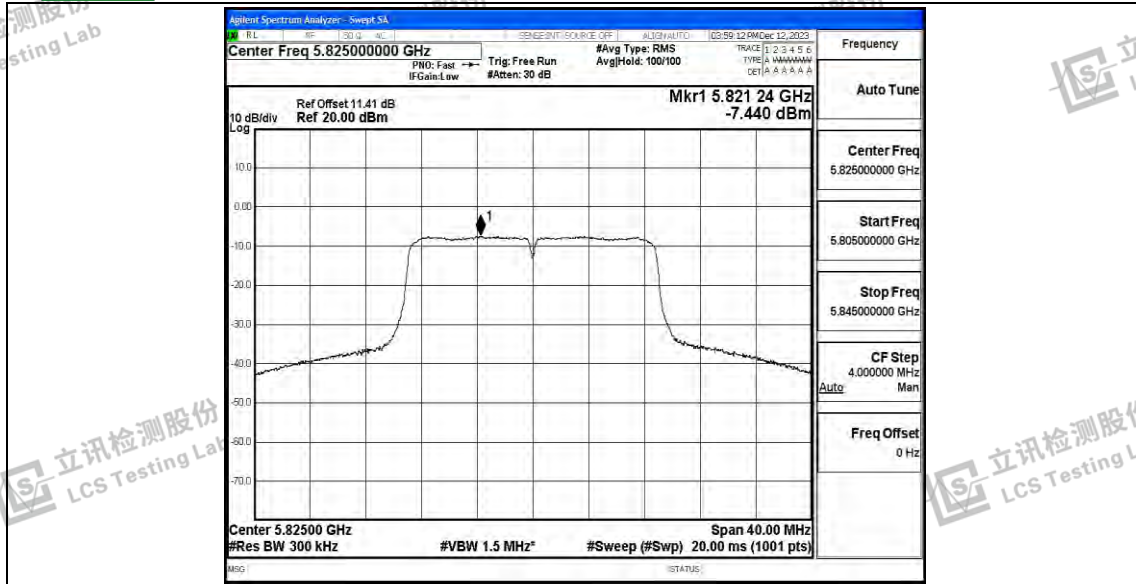


11AC20SISO_Ant1_5785

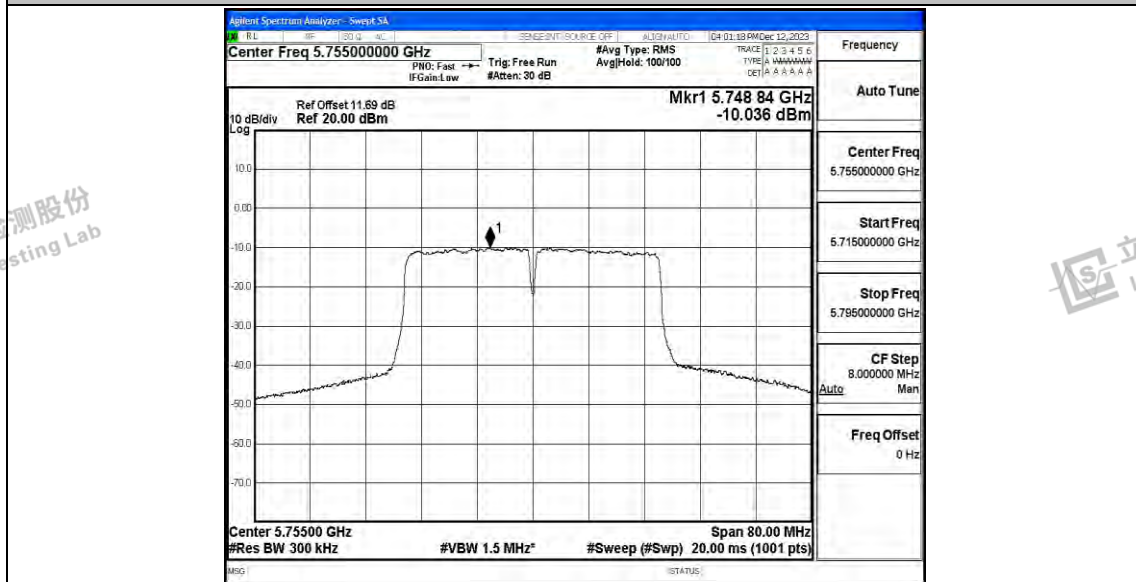


11AC20SISO_Ant1_5825



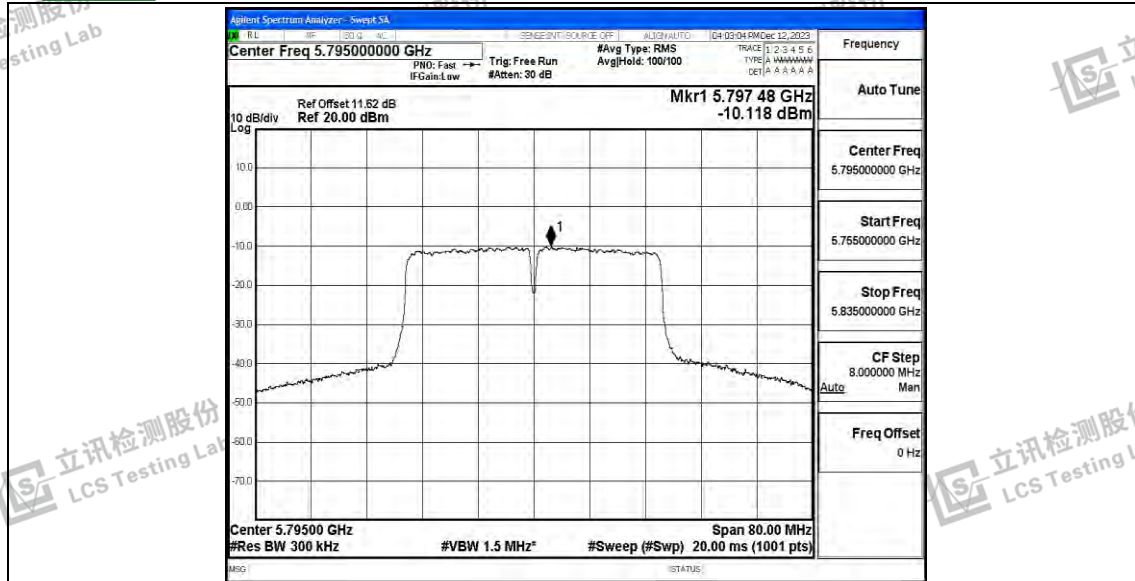


11AC40SISO_Ant1_5755

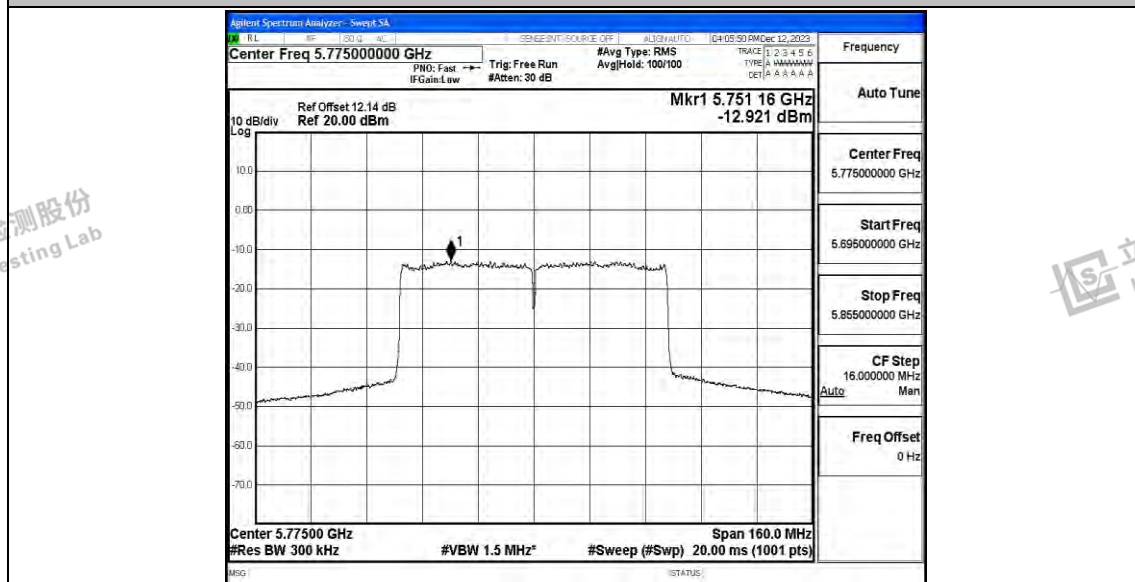


11AC40SISO_Ant1_5795





11AC80SISO_Ant1_5775





E.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant0	Low	5745	Peak	5650.000	-49.138	≤-27.00	---	---	PASS
				Peak	5700.000	-45.35	≤10.00	---	---	PASS
				Peak	5720.000	-32.03	≤15.60	---	---	PASS
				Peak	5725.000	-26.26	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-40.102	≤15.60	---	---	PASS
				Peak	5855.000	-43.06	≤27.00	---	---	PASS
				Peak	5875.000	-47.19	≤15.60	---	---	PASS
				Peak	5925.000	-48.02	≤10.00	---	---	PASS
11N20SISO	Ant0	Low	5745	Peak	5650.000	-46.796	≤-27.00	---	---	PASS
				Peak	5700.000	-45.33	≤10.00	---	---	PASS
				Peak	5720.000	-30.84	≤15.60	---	---	PASS
				Peak	5725.000	-23.63	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-30.427	≤15.60	---	---	PASS
				Peak	5855.000	-39.39	≤27.00	---	---	PASS
				Peak	5875.000	-47.16	≤15.60	---	---	PASS
				Peak	5925.000	-51.05	≤10.00	---	---	PASS
11N40SISO	Ant0	Low	5755	Peak	5650.000	-49.476	≤-27.00	---	---	PASS
				Peak	5700.000	-42.35	≤10.00	---	---	PASS
				Peak	5720.000	-29.85	≤15.60	---	---	PASS
				Peak	5725.000	-26.22	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-41.195	≤15.60	---	---	PASS
				Peak	5855.000	-44.39	≤27.00	---	---	PASS
				Peak	5875.000	-48.22	≤15.60	---	---	PASS
				Peak	5925.000	-50.41	≤10.00	---	---	PASS
11AC20SISO	Ant0	Low	5745	Peak	5650.000	-48.656	≤-27.00	---	---	PASS
				Peak	5700.000	-41.59	≤10.00	---	---	PASS
				Peak	5720.000	-31.06	≤15.60	---	---	PASS
				Peak	5725.000	-23.1	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-34.053	≤15.60	---	---	PASS
				Peak	5855.000	-44.28	≤27.00	---	---	PASS
				Peak	5875.000	-46.32	≤15.60	---	---	PASS
				Peak	5925.000	-48.05	≤10.00	---	---	PASS
11AC40SISO	Ant0	Low	5755	Peak	5650.000	-48.008	≤-27.00	---	---	PASS
				Peak	5700.000	-42.75	≤10.00	---	---	PASS
				Peak	5720.000	-28.48	≤15.60	---	---	PASS



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		High	5795	Peak	5725.000	-23.88	≤27.00	---	---	PASS
				Peak	5850.000	-41.149	≤15.60	---	---	PASS
				Peak	5855.000	-44.96	≤27.00	---	---	PASS
				Peak	5875.000	-48.51	≤15.60	---	---	PASS
				Peak	5925.000	-49.68	≤10.00	---	---	PASS
11AC80SI SO	Ant0	Low	5775	Peak	5650.000	-45.272	≤-27.00	---	---	PASS
				Peak	5700.000	-30.98	≤10.00	---	---	PASS
				Peak	5720.000	-29.32	≤15.60	---	---	PASS
				Peak	5725.000	-22.92	≤27.00	---	---	PASS
		High	5775	Peak	5850.000	-29.569	≤15.60	---	---	PASS
				Peak	5855.000	-31.8	≤27.00	---	---	PASS
				Peak	5875.000	-37.31	≤15.60	---	---	PASS
				Peak	5925.000	-49.43	≤10.00	---	---	PASS

Note:

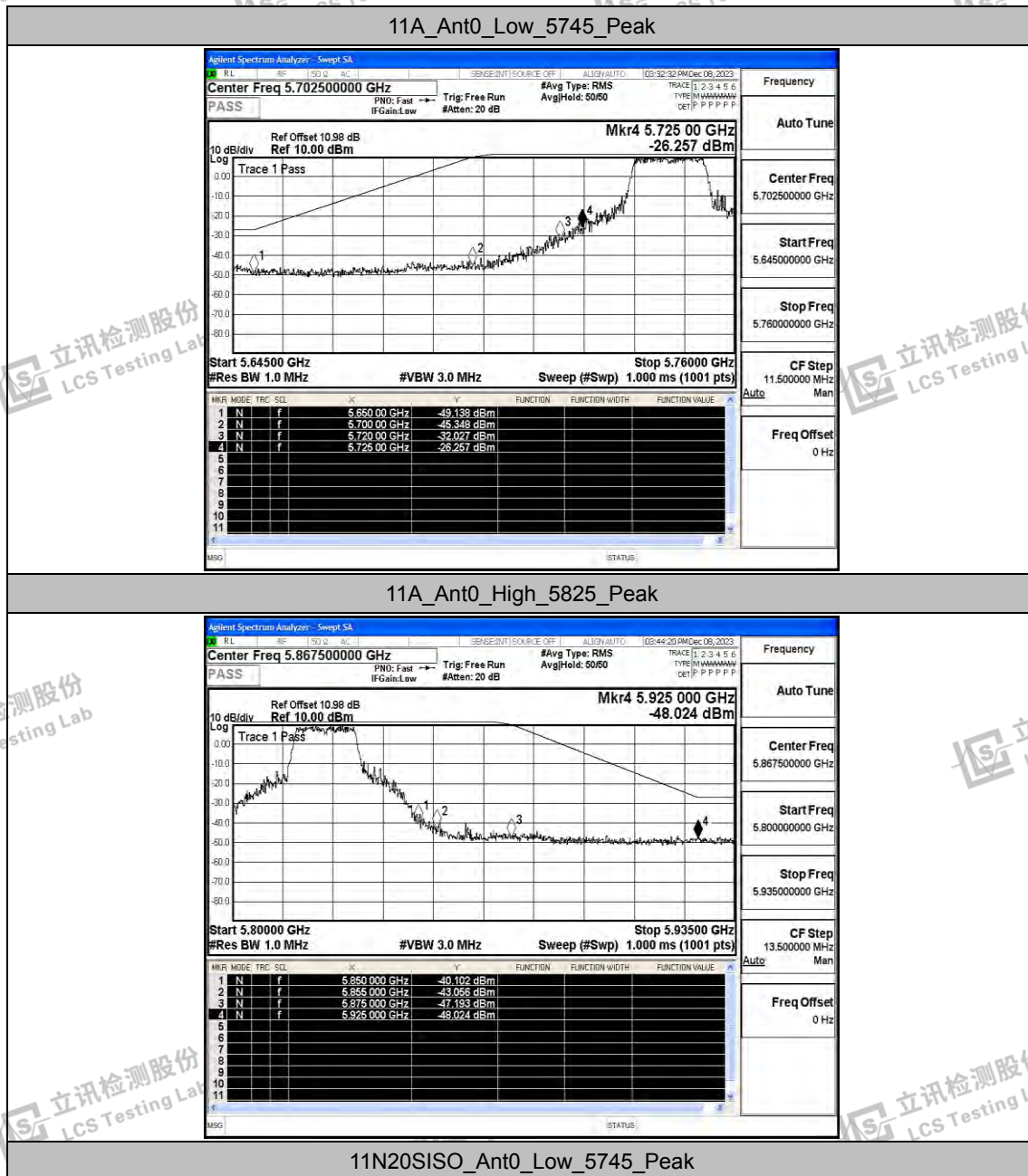
1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

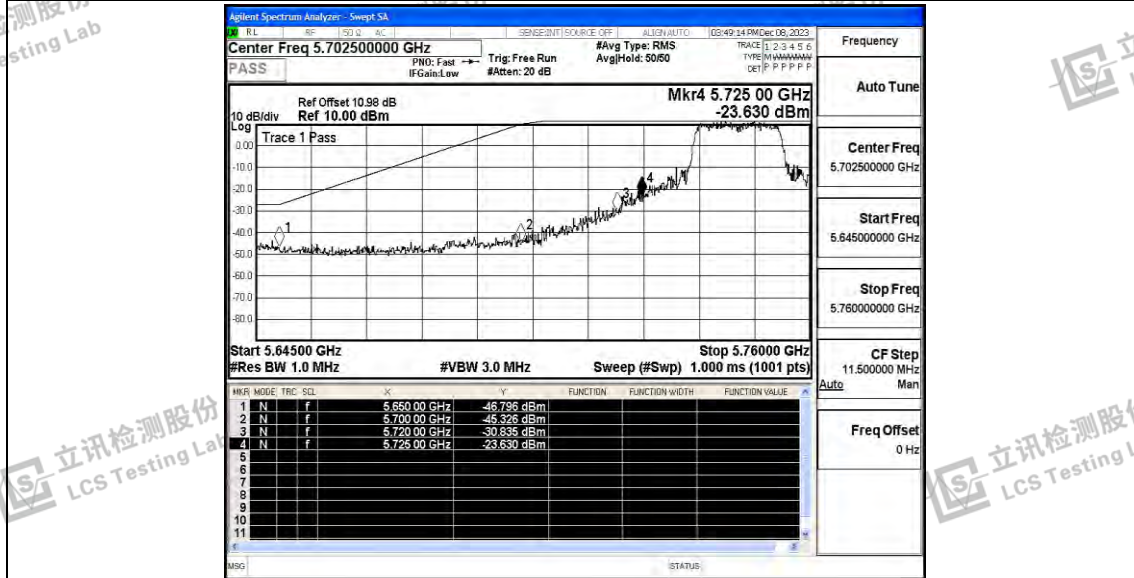


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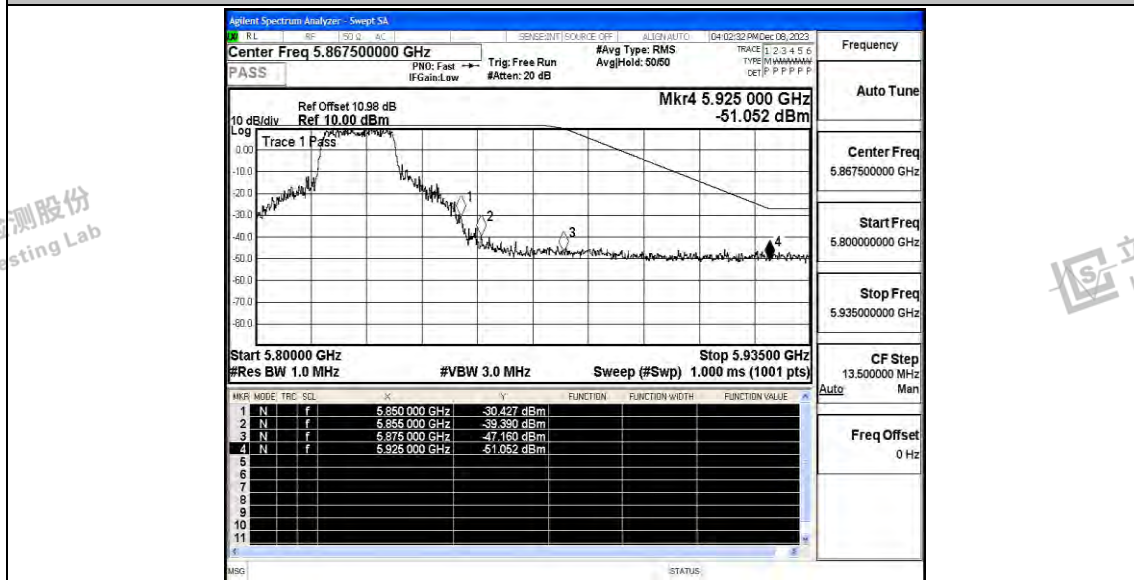


Test Graphs



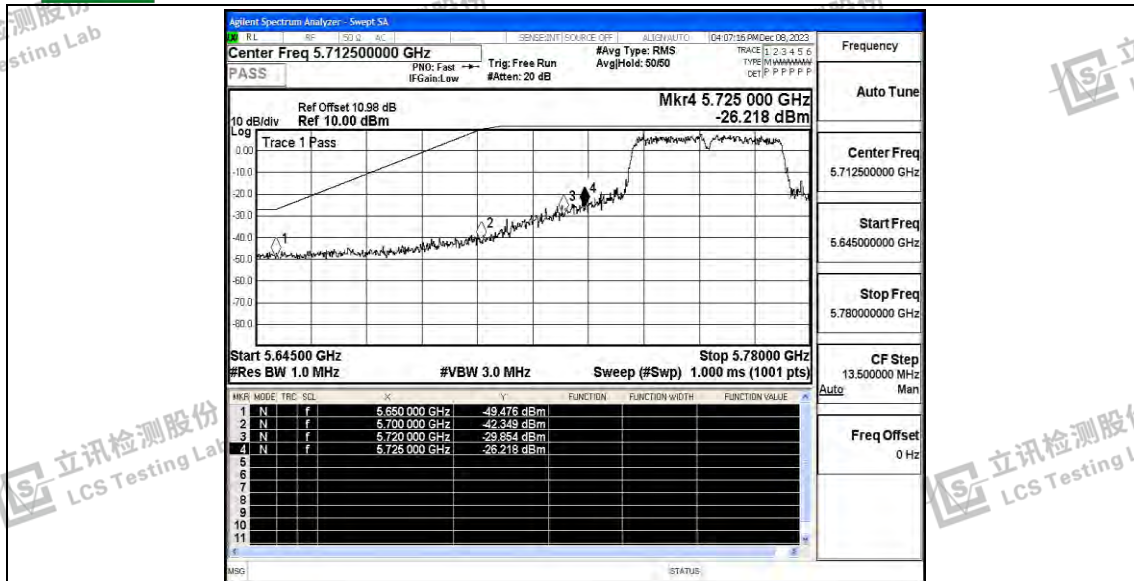


11N20SISO_Ant0_High_5825_Peak

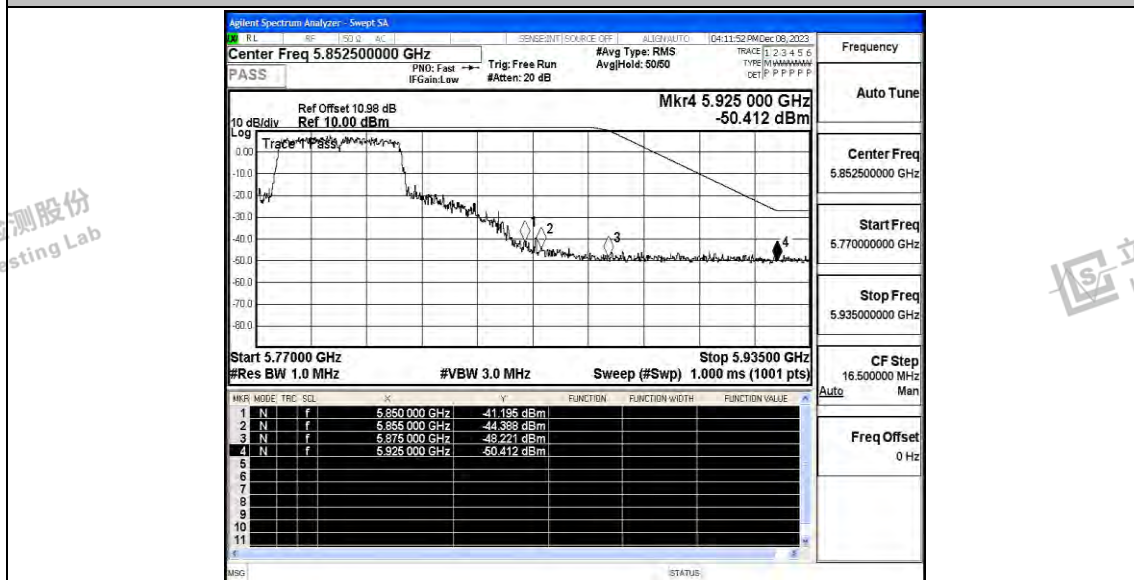


11N40SISO_Ant0_Low_5755_Peak





11N40SISO_Ant0_High_5795_Peak



11AC20SISO_Ant0_Low_5745_Peak



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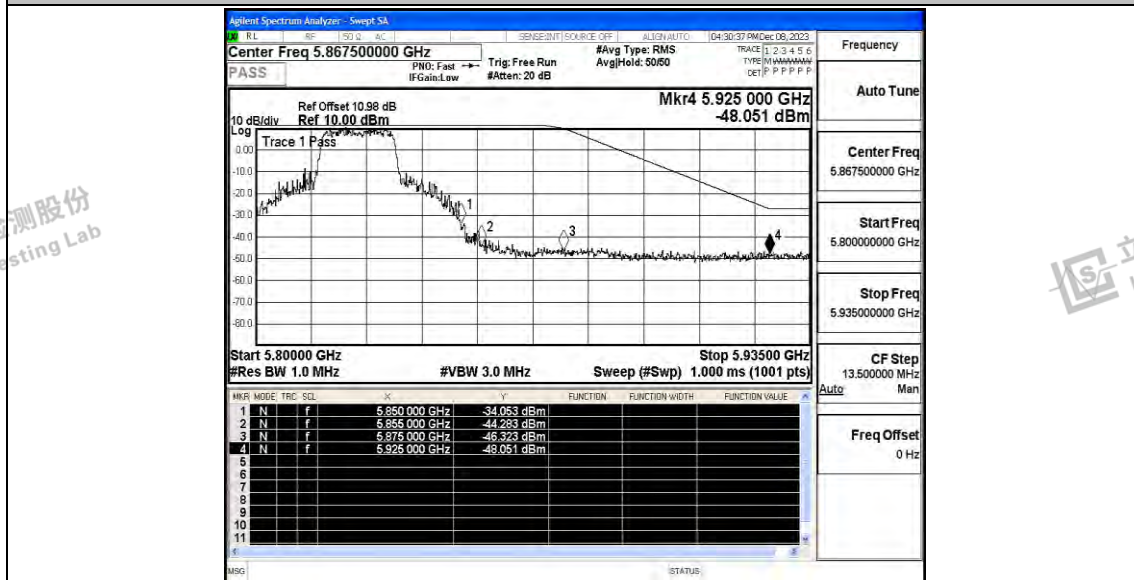
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11AC20SISO_Ant0_High_5825_Peak



11AC40SISO_Ant0_Low_5755_Peak

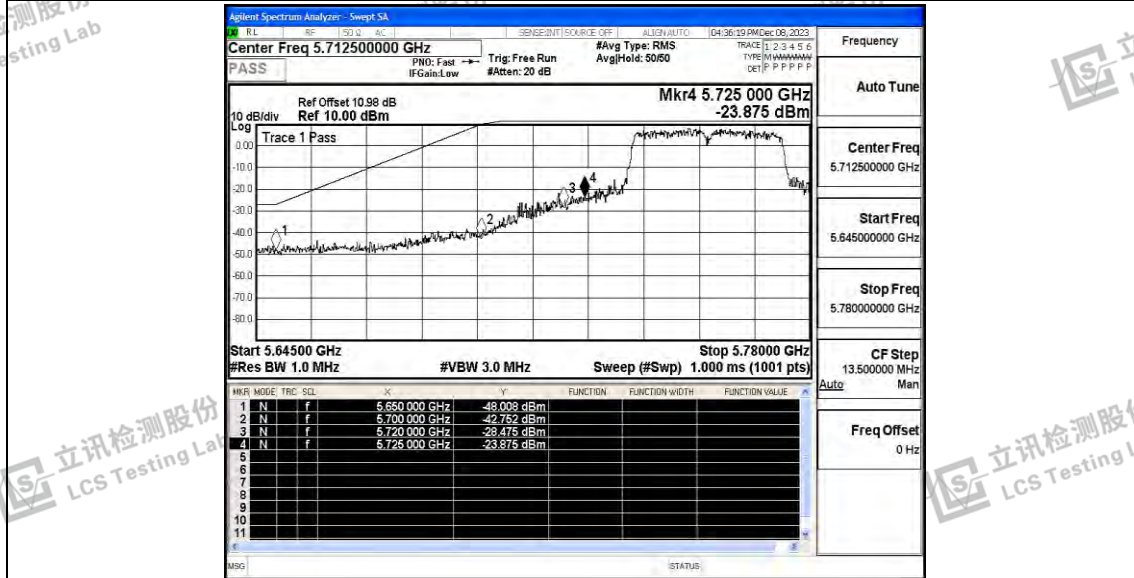


Shenzhen LCS Compliance Testing Laboratory Ltd.

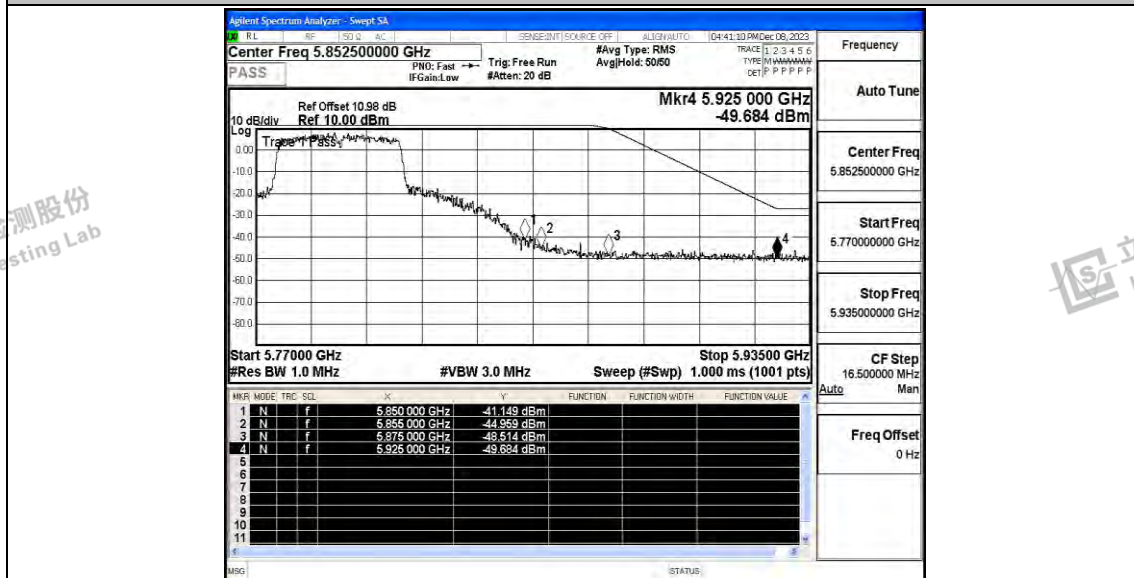
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11AC40SISO_Ant0_High_5795_Peak



11AC80SISO_Ant0_Low_5775_Peak

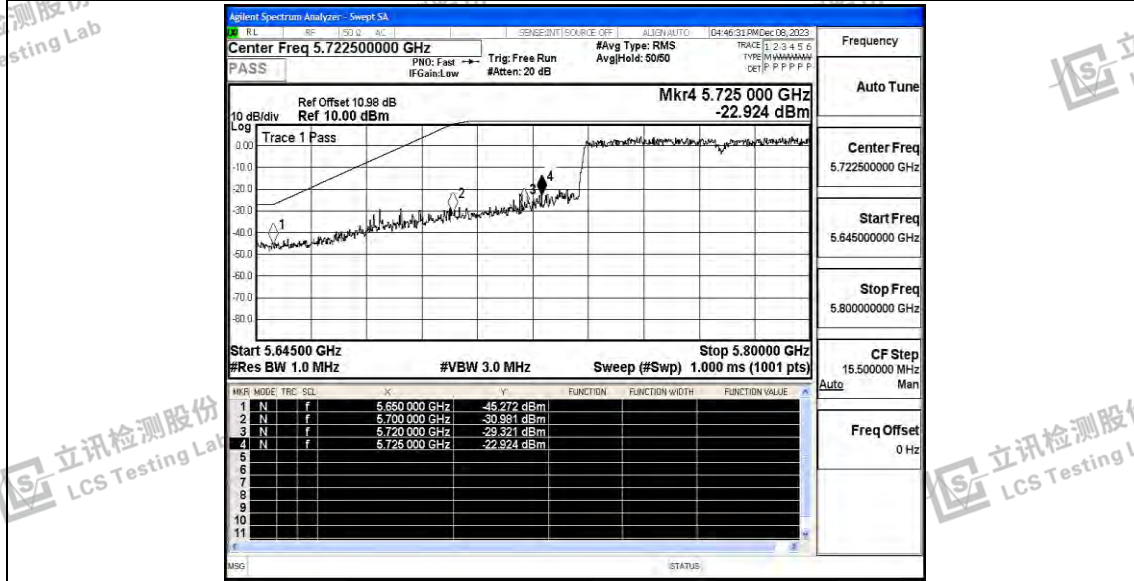


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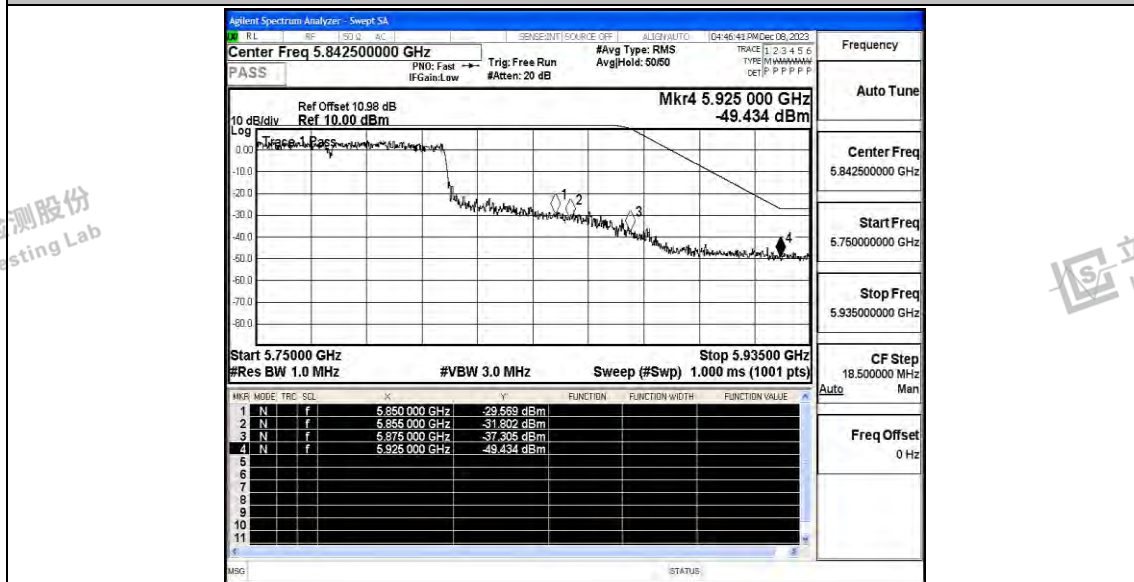
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11AC80SISO_Ant0_High_5775_Peak





Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-49.247	≤-27.00	---	---	PASS
				Peak	5700.000	-49.04	≤10.00	---	---	PASS
				Peak	5720.000	-37.95	≤15.60	---	---	PASS
				Peak	5725.000	-28.62	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-42.171	≤15.60	---	---	PASS
				Peak	5855.000	-46.63	≤27.00	---	---	PASS
				Peak	5875.000	-45.47	≤15.60	---	---	PASS
				Peak	5925.000	-48.93	≤10.00	---	---	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-49.206	≤-27.00	---	---	PASS
				Peak	5700.000	-48.01	≤10.00	---	---	PASS
				Peak	5720.000	-36.92	≤15.60	---	---	PASS
				Peak	5725.000	-28.83	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-40.635	≤15.60	---	---	PASS
				Peak	5855.000	-46.48	≤27.00	---	---	PASS
				Peak	5875.000	-48.48	≤15.60	---	---	PASS
				Peak	5925.000	-48.94	≤10.00	---	---	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-47.63	≤-27.00	---	---	PASS
				Peak	5700.000	-45.77	≤10.00	---	---	PASS
				Peak	5720.000	-36.55	≤15.60	---	---	PASS
				Peak	5725.000	-29.21	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-46.05	≤15.60	---	---	PASS
				Peak	5855.000	-47.82	≤27.00	---	---	PASS
				Peak	5875.000	-49.07	≤15.60	---	---	PASS
				Peak	5925.000	-49.76	≤10.00	---	---	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-49.157	≤-27.00	---	---	PASS
				Peak	5700.000	-46.91	≤10.00	---	---	PASS
				Peak	5720.000	-36.84	≤15.60	---	---	PASS
				Peak	5725.000	-31.56	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-42.466	≤15.60	---	---	PASS
				Peak	5855.000	-46.84	≤27.00	---	---	PASS
				Peak	5875.000	-45.95	≤15.60	---	---	PASS
				Peak	5925.000	-50.46	≤10.00	---	---	PASS
11AC40SISO	Ant1	Low	5755	Peak	5650.000	-49.03	≤-27.00	---	---	PASS
				Peak	5700.000	-45.91	≤10.00	---	---	PASS
				Peak	5720.000	-35.3	≤15.60	---	---	PASS
				Peak	5725.000	-32.83	≤27.00	---	---	PASS





		High	5795	Peak	5850.000	-48.176	≤15.60	---	---	PASS
				Peak	5855.000	-48.59	≤27.00	---	---	PASS
				Peak	5875.000	-47.88	≤15.60	---	---	PASS
				Peak	5925.000	-49.16	≤10.00	---	---	PASS
11AC80SI SO	Ant1	Low	5775	Peak	5650.000	-46.981	≤27.00	---	---	PASS
				Peak	5700.000	-39.35	≤10.00	---	---	PASS
				Peak	5720.000	-33.17	≤15.60	---	---	PASS
				Peak	5725.000	-32.59	≤27.00	---	---	PASS
		High	5775	Peak	5850.000	-36.363	≤15.60	---	---	PASS
				Peak	5855.000	-36.55	≤27.00	---	---	PASS
				Peak	5875.000	-43.42	≤15.60	---	---	PASS
				Peak	5925.000	-48.05	≤10.00	---	---	PASS

Note:

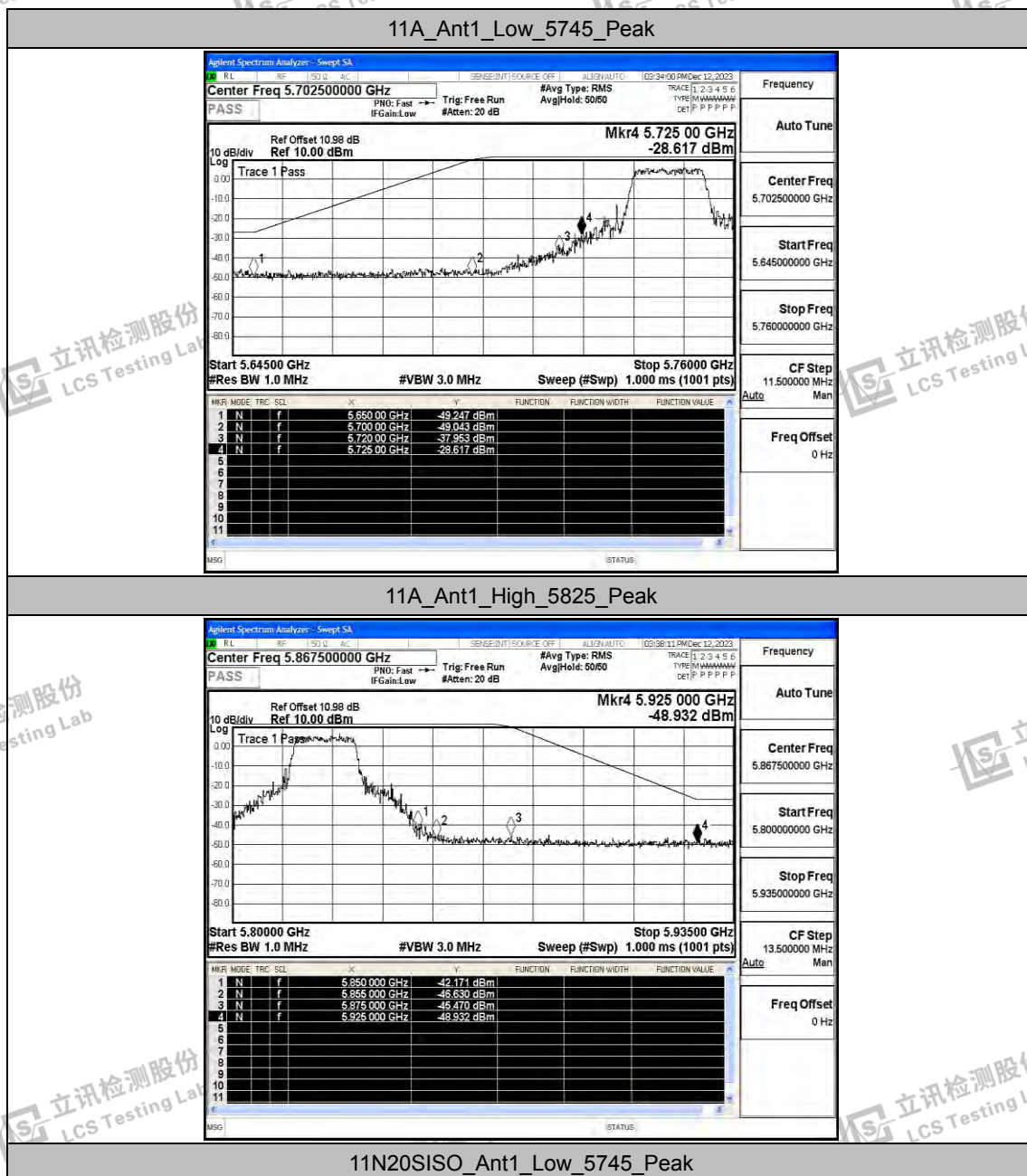
- The Antenna Gain is compensated in the graph.
- For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

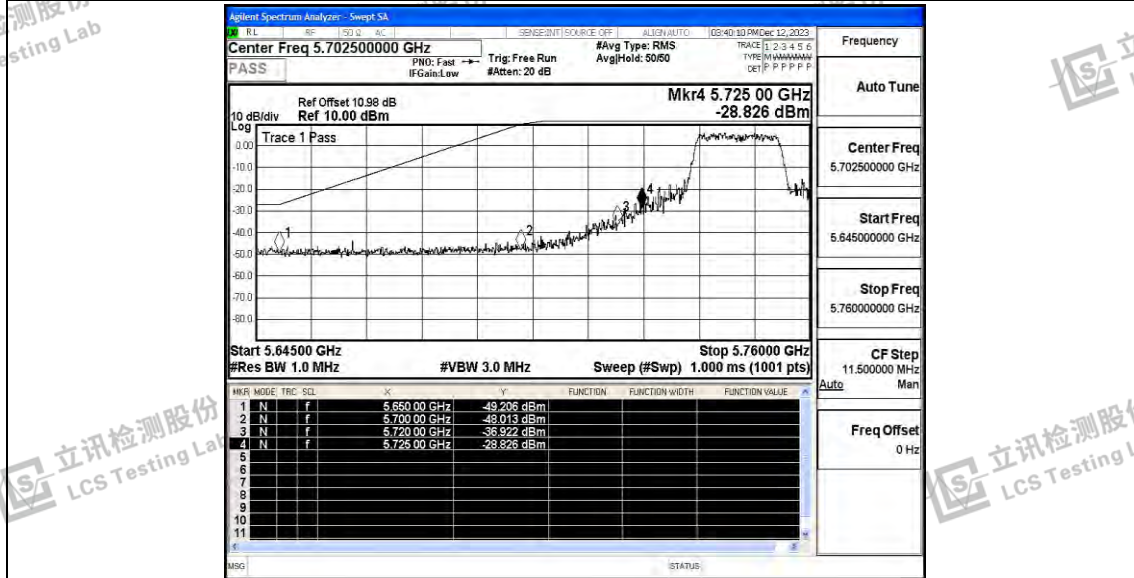


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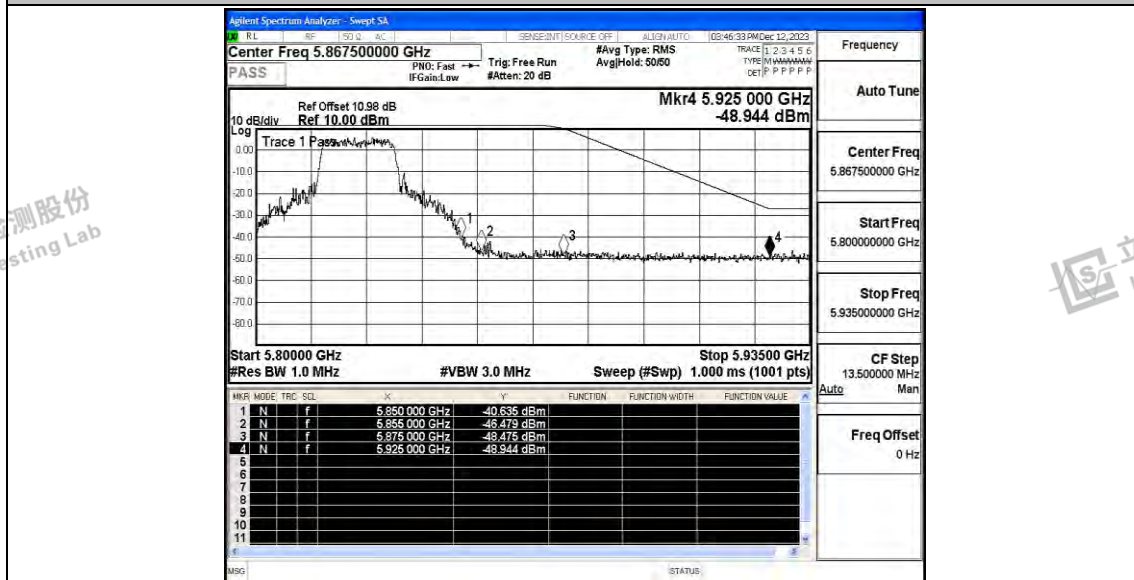


Test Graphs





11N20SISO_Ant1_High_5825_Peak

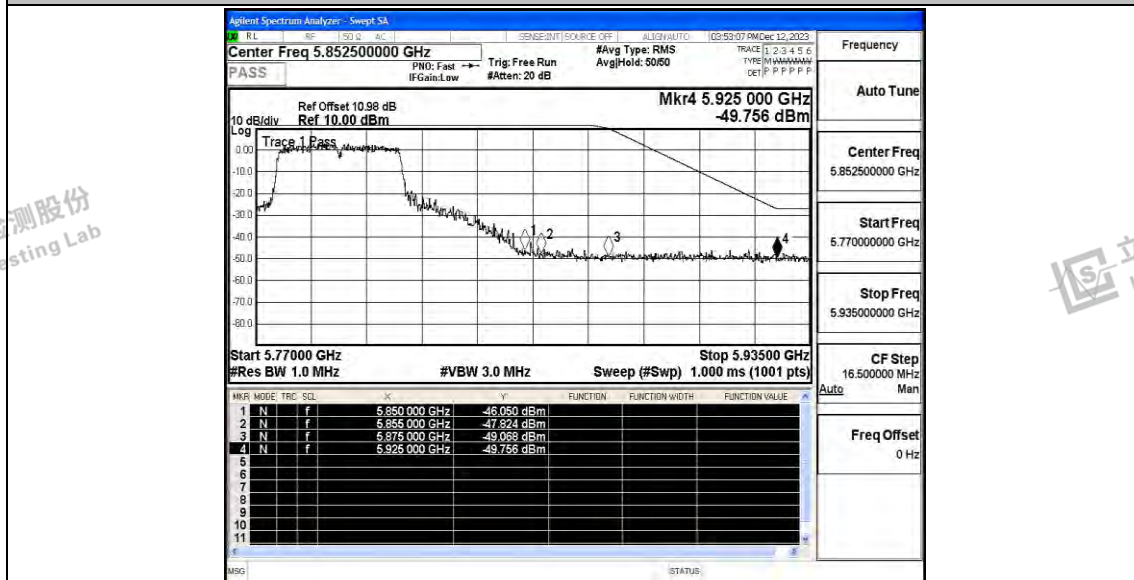


11N40SISO_Ant1_Low_5755_Peak





11N40SISO_Ant1_High_5795_Peak



11AC20SISO_Ant1_Low_5745_Peak



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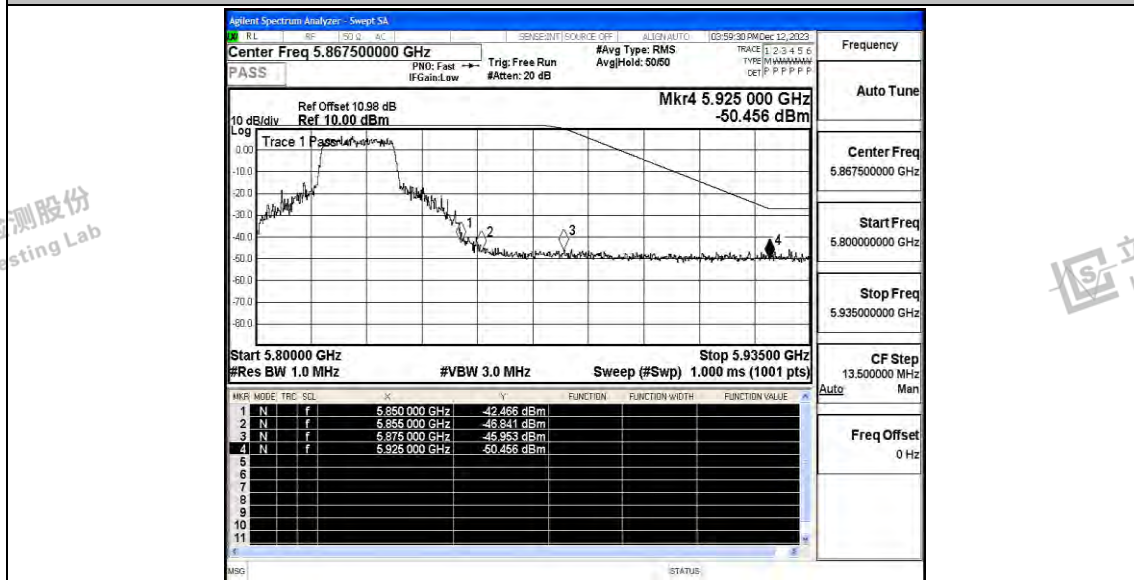
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11AC20SISO_Ant1_High_5825_Peak

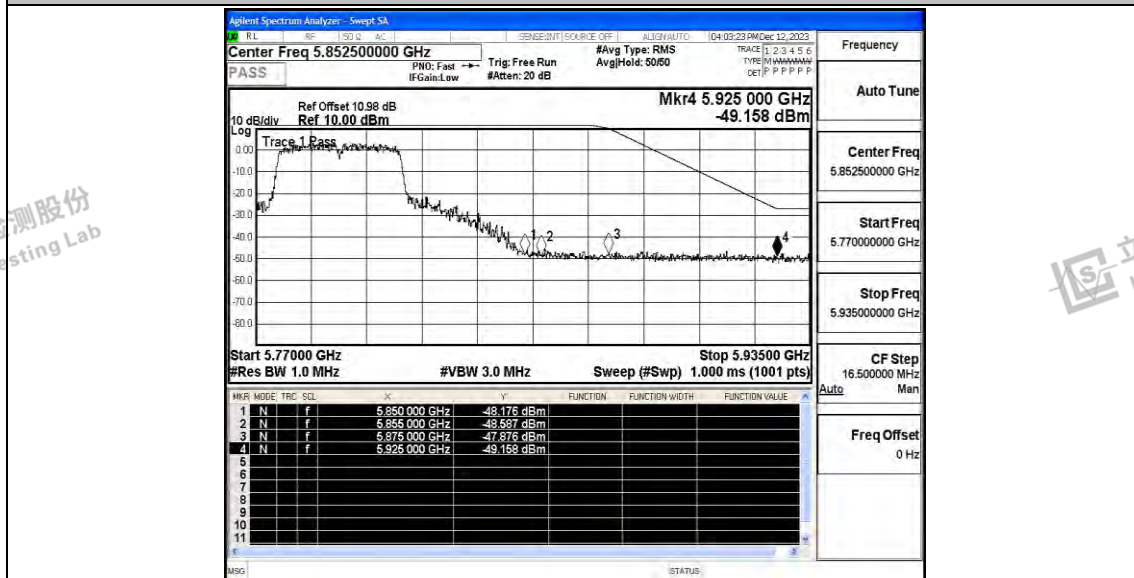


11AC40SISO_Ant1_Low_5755_Peak



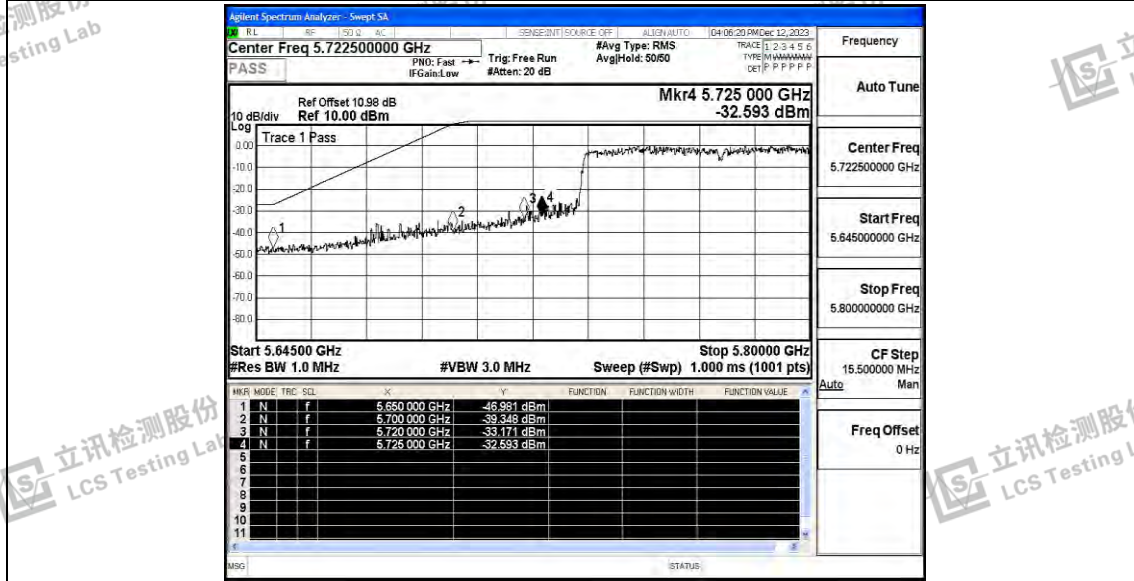


11AC40SISO_Ant1_High_5795_Peak

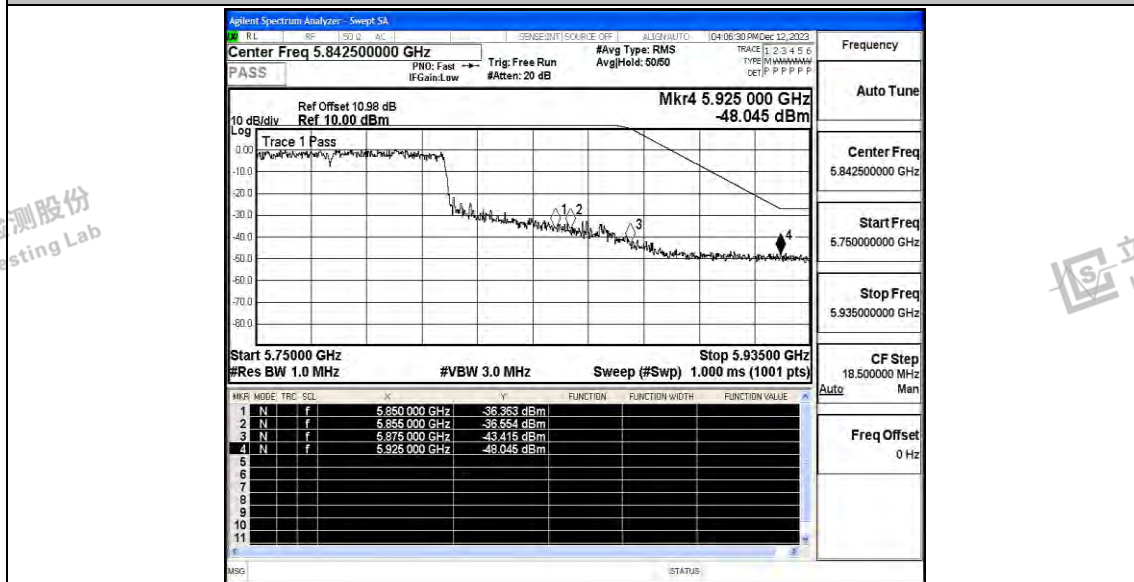


11AC80SISO_Ant1_Low_5775_Peak





11AC80SISO_Ant1_High_5775_Peak





MIMO

Condition	Mode	Frequency (MHz)	Ant0 Power (dBm)	Ant1 Power (dBm)	Gain (dBi)	EIRP Power (dBm)	Detector	Limit (dBm)	Verdict
NVNT	n20	5745	-46.796	-49.206	4.91	-39.92	Peak	≤-27.00	Pass
NVNT	n20	5745	-45.33	-48.01	4.91	-38.55	Peak	≤10.00	Pass
NVNT	n20	5745	-30.84	-36.92	4.91	-24.97	Peak	≤15.60	Pass
NVNT	n20	5745	-23.63	-28.83	4.91	-17.57	Peak	≤27.00	Pass
NVNT	n20	5825	-30.427	-40.635	4.91	-25.12	Peak	≤15.60	Pass
NVNT	n20	5825	-39.39	-46.48	4.91	-33.7	Peak	≤27.00	Pass
NVNT	n20	5825	-47.16	-48.48	4.91	-39.85	Peak	≤15.60	Pass
NVNT	n20	5825	-51.05	-48.94	4.91	-41.95	Peak	≤10.00	Pass
NVNT	n40	5755	-49.476	-47.63	4.91	-40.54	Peak	≤-27.00	Pass
NVNT	n40	5755	-42.35	-45.77	4.91	-35.81	Peak	≤10.00	Pass
NVNT	n40	5755	-29.85	-36.55	4.91	-24.1	Peak	≤15.60	Pass
NVNT	n40	5755	-26.22	-29.21	4.91	-19.54	Peak	≤27.00	Pass
NVNT	n40	5795	-41.195	-46.05	4.91	-35.06	Peak	≤15.60	Pass
NVNT	n40	5795	-44.39	-47.82	4.91	-37.85	Peak	≤27.00	Pass
NVNT	n40	5795	-48.22	-49.07	4.91	-40.7	Peak	≤15.60	Pass
NVNT	n40	5795	-50.41	-49.76	4.91	-42.15	Peak	≤10.00	Pass
NVNT	ac20	5745	-48.656	-49.157	4.91	-40.98	Peak	≤-27.00	Pass
NVNT	ac20	5745	-41.59	-46.91	4.91	-35.56	Peak	≤10.00	Pass
NVNT	ac20	5745	-31.06	-36.84	4.91	-25.13	Peak	≤15.60	Pass
NVNT	ac20	5745	-23.1	-31.56	4.91	-17.61	Peak	≤27.00	Pass
NVNT	ac20	5825	-34.053	-42.466	4.91	-28.56	Peak	≤15.60	Pass
NVNT	ac20	5825	-44.28	-46.84	4.91	-37.45	Peak	≤27.00	Pass
NVNT	ac20	5825	-46.32	-45.95	4.91	-38.21	Peak	≤15.60	Pass
NVNT	ac20	5825	-48.05	-50.46	4.91	-41.17	Peak	≤10.00	Pass
NVNT	ac40	5755	-48.008	-49.03	4.91	-40.57	Peak	≤-27.00	Pass
NVNT	ac40	5755	-42.75	-45.91	4.91	-36.13	Peak	≤10.00	Pass
NVNT	ac40	5755	-28.48	-35.3	4.91	-22.75	Peak	≤15.60	Pass
NVNT	ac40	5755	-23.88	-32.83	4.91	-18.45	Peak	≤27.00	Pass
NVNT	ac40	5795	-41.149	-48.176	4.91	-35.45	Peak	≤15.60	Pass
NVNT	ac40	5795	-44.96	-48.59	4.91	-38.49	Peak	≤27.00	Pass
NVNT	ac40	5795	-48.51	-47.88	4.91	-40.26	Peak	≤15.60	Pass
NVNT	ac40	5795	-49.68	-49.16	4.91	-41.49	Peak	≤10.00	Pass
NVNT	ac80	5775	-45.272	-46.981	4.91	-38.12	Peak	≤-27.00	Pass
NVNT	ac80	5775	-30.98	-39.35	4.91	-25.48	Peak	≤10.00	Pass
NVNT	ac80	5775	-29.32	-33.17	4.91	-22.91	Peak	≤15.60	Pass
NVNT	ac80	5775	-22.92	-32.59	4.91	-17.57	Peak	≤27.00	Pass
NVNT	ac80	5775	-29.569	-36.363	4.91	-23.83	Peak	≤15.60	Pass



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NVNT	ac80	5775	-31.8	-36.55	4.91	-25.64	Peak	≤27.00	Pass
NVNT	ac80	5775	-37.31	-43.42	4.91	-31.45	Peak	≤15.60	Pass
NVNT	ac80	5775	-49.43	-48.05	4.91	-40.77	Peak	≤10.00	Pass



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E.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Frequen cy[MHz]	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant0	5745	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5785	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.433476	20	PASS
11N20SI SO	Ant0	5745	NV	NT	-20000.00	-3.481288	20	PASS
			LV	NT	-20000.00	-3.481288	20	PASS
			HV	NT	-20000.00	-3.481288	20	PASS
		5785	NV	NT	-20000.00	-3.457217	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.457217	20	PASS
		5825	NV	NT	-20000.00	-3.433476	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.433476	20	PASS
11N40SI SO	Ant0	5755	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5795	NV	NT	-40000.00	-6.902502	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AC20S ISO	Ant0	5745	NV	NT	-20000.00	-3.481288	20	PASS
			LV	NT	-20000.00	-3.481288	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5785	NV	NT	-20000.00	-3.457217	20	PASS
			LV	NT	-20000.00	-3.457217	20	PASS
			HV	NT	-20000.00	-3.457217	20	PASS
		5825	NV	NT	-20000.00	-3.433476	20	PASS
			LV	NT	-20000.00	-3.433476	20	PASS
			HV	NT	-20000.00	-3.433476	20	PASS
11AC40S	Ant0	5755	NV	NT	-40000.00	-6.950478	20	PASS



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ISO		5795	LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
			NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AC80S ISO	Ant0	5775	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	5745	NV	-30	-20000.00	-3.481288	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.481288	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
		5785	NV	50	-20000.00	-3.481288	20	PASS
			NV	-30	0.00	0.000000	20	PASS
			NV	-20	-20000.00	-3.457217	20	PASS
			NV	-10	-20000.00	-3.457217	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	-20000.00	-3.457217	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5825	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	-20000.00	-3.433476	20	PASS
			NV	20	-20000.00	-3.433476	20	PASS
			NV	30	-20000.00	-3.433476	20	PASS
			NV	40	-20000.00	-3.433476	20	PASS
			NV	50	0.00	0.000000	20	PASS
11N20SI	Ant0	5745	NV	-30	-20000.00	-3.481288	20	PASS





SO			NV	-20	-20000.00	-3.481288	20	PASS
			NV	-10	-20000.00	-3.481288	20	PASS
			NV	0	-20000.00	-3.481288	20	PASS
			NV	10	-20000.00	-3.481288	20	PASS
			NV	20	-20000.00	-3.481288	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.481288	20	PASS
			NV	50	-20000.00	-3.481288	20	PASS
		5785	NV	-30	-20000.00	-3.457217	20	PASS
			NV	-20	-20000.00	-3.457217	20	PASS
			NV	-10	-20000.00	-3.457217	20	PASS
			NV	0	-40000.00	-6.914434	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.457217	20	PASS
			NV	30	-20000.00	-3.457217	20	PASS
			NV	40	-20000.00	-3.457217	20	PASS
			NV	50	-20000.00	-3.457217	20	PASS
		5825	NV	-30	-20000.00	-3.433476	20	PASS
			NV	-20	-20000.00	-3.433476	20	PASS
			NV	-10	-20000.00	-3.433476	20	PASS
			NV	0	-20000.00	-3.433476	20	PASS
			NV	10	-20000.00	-3.433476	20	PASS
			NV	20	-20000.00	-3.433476	20	PASS
			NV	30	-20000.00	-3.433476	20	PASS
			NV	40	-20000.00	-3.433476	20	PASS
			NV	50	-20000.00	-3.433476	20	PASS
11N40SI SO	Ant0	5755	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	-40000.00	-6.950478	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-40000.00	-6.950478	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5795	NV	-30	-40000.00	-6.902502	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





11AC20S ISO	Ant0		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
		5745	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-20000.00	-3.481288	20	PASS
			NV	-10	-20000.00	-3.481288	20	PASS
			NV	0	-20000.00	-3.481288	20	PASS
			NV	10	-20000.00	-3.481288	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.481288	20	PASS
			NV	40	-20000.00	-3.481288	20	PASS
			NV	50	-20000.00	-3.481288	20	PASS
			NV	-30	-20000.00	-3.457217	20	PASS
		5785	NV	-20	-20000.00	-3.457217	20	PASS
			NV	-10	-20000.00	-3.457217	20	PASS
			NV	0	-20000.00	-3.457217	20	PASS
			NV	10	-20000.00	-3.457217	20	PASS
			NV	20	-20000.00	-3.457217	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.457217	20	PASS
		5825	NV	-30	-20000.00	-3.433476	20	PASS
			NV	-20	-20000.00	-3.433476	20	PASS
			NV	-10	-20000.00	-3.433476	20	PASS
			NV	0	-20000.00	-3.433476	20	PASS
			NV	10	-20000.00	-3.433476	20	PASS
			NV	20	-20000.00	-3.433476	20	PASS
			NV	30	-20000.00	-3.433476	20	PASS
			NV	40	-20000.00	-3.433476	20	PASS
11AC40S ISO	Ant0	5755	NV	50	-20000.00	-3.433476	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	-40000.00	-6.950478	20	PASS
			NV	10	-40000.00	-6.950478	20	PASS
			NV	20	-40000.00	-6.950478	20	PASS
			NV	30	-40000.00	-6.950478	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS





		5795	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-6.902502	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-40000.00	-6.902502	20	PASS
			NV	30	-40000.00	-6.902502	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
11AC80S ISO	Ant0	5775	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
			NV	50	0.00	0.000000	20	PASS





Test Result

Voltage								
TestMode	Antenna	Frequency[MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11N20SI SO	Ant1	5745	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.481288	20	PASS
			HV	NT	-20000.00	-3.481288	20	PASS
		5785	NV	NT	-20000.00	-3.457217	20	PASS
			LV	NT	-40000.00	-6.914434	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.433476	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11N40SI SO	Ant1	5755	NV	NT	-40000.00	-6.950478	20	PASS
			LV	NT	-80000.00	-13.900956	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5795	NV	NT	-40000.00	-6.902502	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AC80S ISO	Ant1	5775	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	Frequency[MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11N20SI SO	Ant1	5745	NV	-30	-20000.00	-3.481288	20	PASS
			NV	-20	-20000.00	-3.481288	20	PASS
			NV	-10	-20000.00	-3.481288	20	PASS
			NV	0	-20000.00	-3.481288	20	PASS
			NV	10	-20000.00	-3.481288	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.481288	20	PASS
			NV	40	-20000.00	-3.481288	20	PASS
			NV	50	-20000.00	-3.481288	20	PASS
		5785	NV	-30	-20000.00	-3.457217	20	PASS
			NV	-20	-20000.00	-3.457217	20	PASS
			NV	-10	-20000.00	-3.457217	20	PASS
			NV	0	-20000.00	-3.457217	20	PASS





			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.457217	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.457217	20	PASS
			NV	50	-40000.00	-6.914434	20	PASS
		5825	NV	-30	-20000.00	-3.433476	20	PASS
			NV	-20	20000.00	3.433476	20	PASS
			NV	-10	-20000.00	-3.433476	20	PASS
			NV	0	-20000.00	-3.433476	20	PASS
			NV	10	-20000.00	-3.433476	20	PASS
			NV	20	-20000.00	-3.433476	20	PASS
			NV	30	-40000.00	-6.866953	20	PASS
			NV	40	-40000.00	-6.866953	20	PASS
			NV	50	0.00	0.000000	20	PASS
11N40SI SO	Ant1	5755	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	-6.950478	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	-40000.00	-6.950478	20	PASS
		5795	NV	-30	-40000.00	-6.902502	20	PASS
NV	-20		0.00	0.000000	20	PASS		
NV	-10		0.00	0.000000	20	PASS		
NV	0		-80000.00	-13.805004	20	PASS		
NV	10		0.00	0.000000	20	PASS		
NV	20		-40000.00	-6.902502	20	PASS		
NV	30		-40000.00	-6.902502	20	PASS		
NV	40		-80000.00	-13.805004	20	PASS		
NV	50		-40000.00	-6.902502	20	PASS		
11AC80S ISO	Ant1	5775	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	80000.00	13.852814	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



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		NV	50	-80000.00	-13.852814	20	PASS
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E.6 Duty Cycle

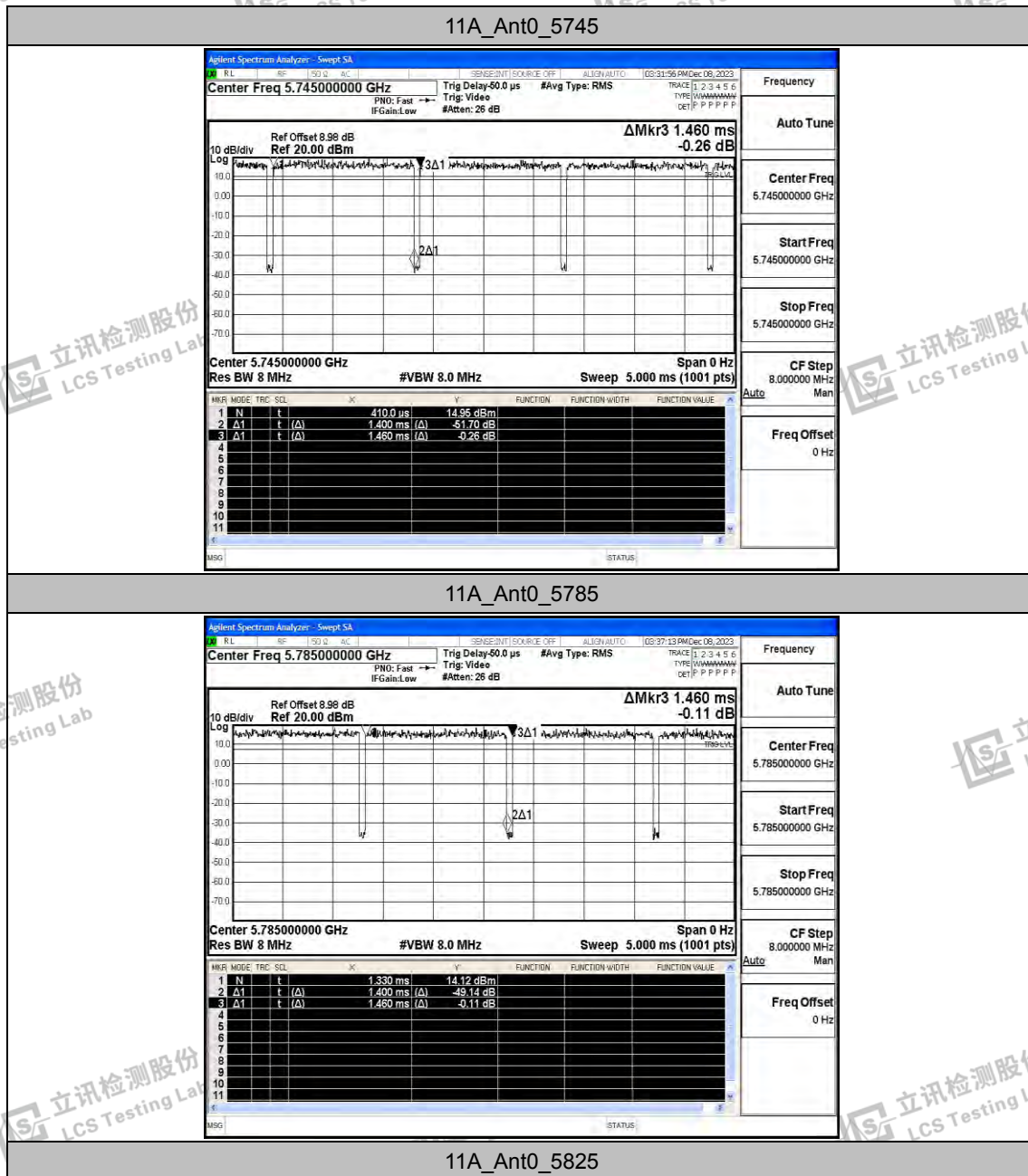
Test Result

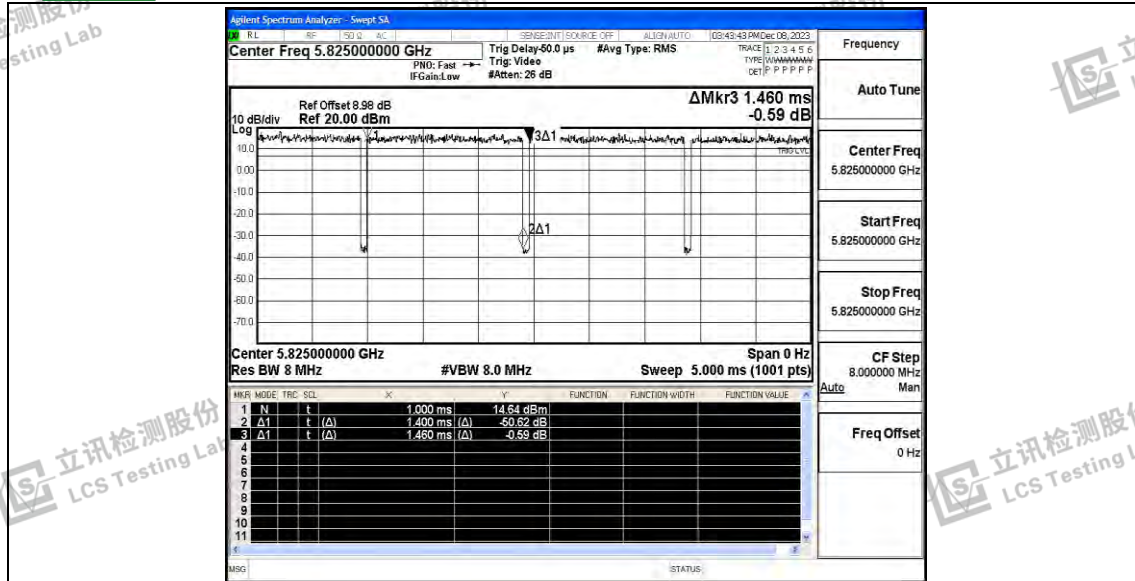
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [kHz]
11A	Ant0	5745	1.40	1.46	95.89	0.71
		5785	1.40	1.46	95.89	0.71
		5825	1.40	1.46	95.89	0.71
11N20SISO	Ant0	5745	1.18	1.24	95.16	0.85
		5785	1.18	1.25	94.40	0.85
		5825	1.18	1.24	95.16	0.85
11N40SISO	Ant0	5755	0.58	0.65	89.23	1.72
		5795	0.58	0.65	89.23	1.72
11AC20SISO	Ant0	5745	1.19	1.26	94.44	0.84
		5785	1.18	1.25	94.40	0.85
		5825	1.19	1.25	95.20	0.84
11AC40SISO	Ant0	5755	0.59	0.66	89.39	1.69
		5795	0.60	0.66	90.91	1.67
11AC80SISO	Ant0	5775	0.30	0.36	83.33	3.33



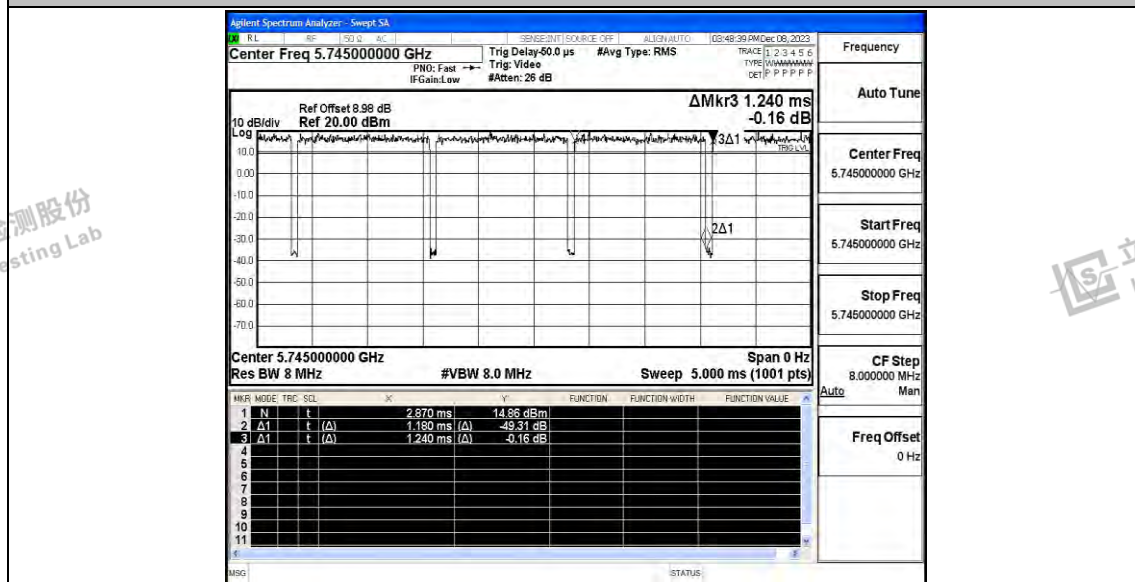


Test Graphs





11N20SISO_Ant0_5745



11N20SISO_Ant0_5785

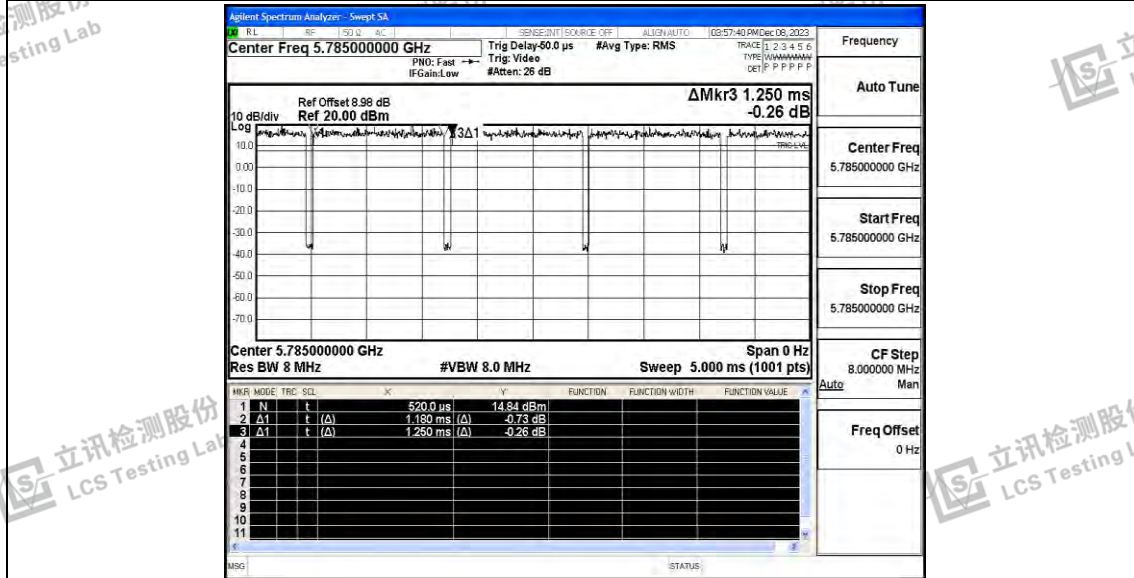


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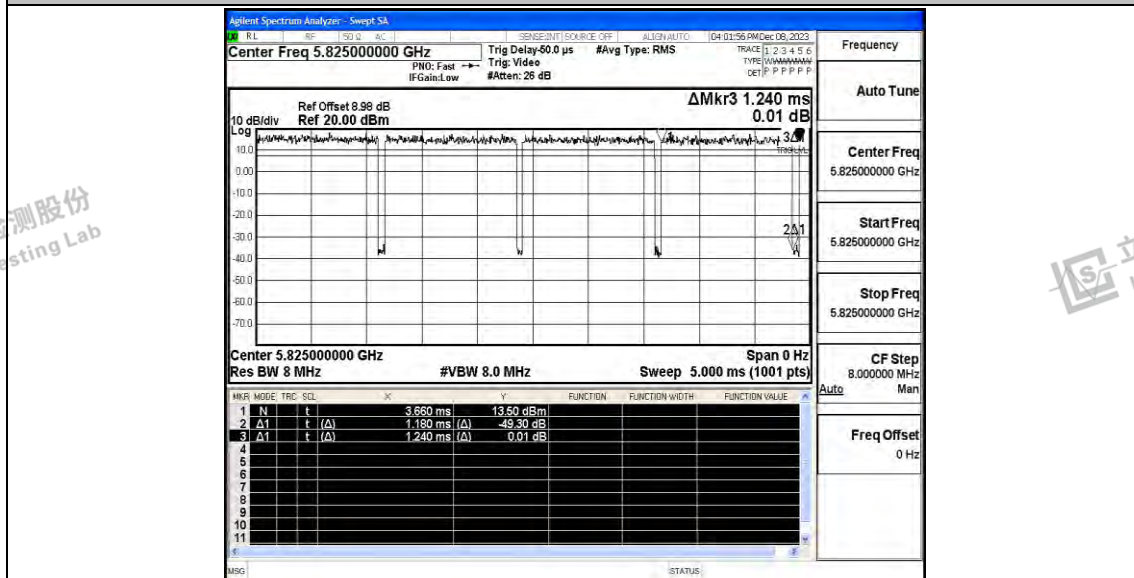
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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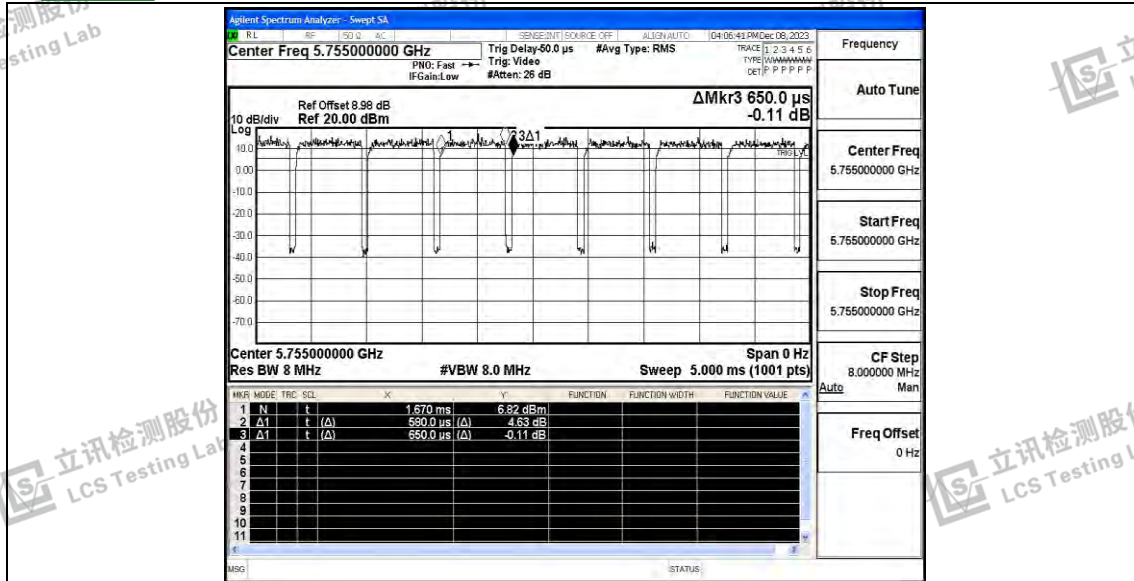


11N20SISO_Ant0_5825

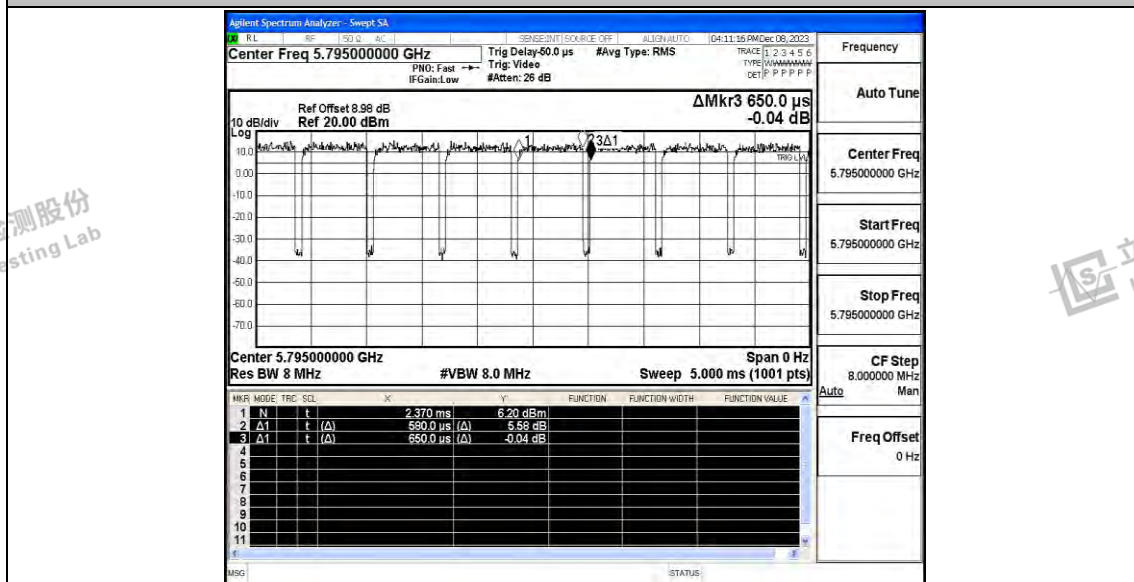


11N40SISO_Ant0_5755



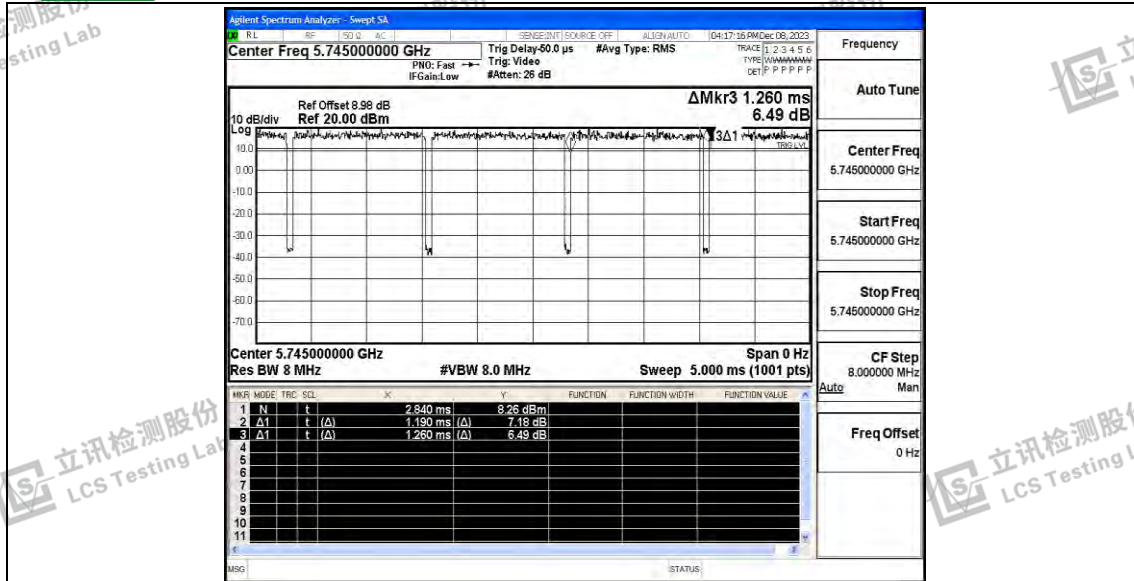


11N40SISO_Ant0_5795

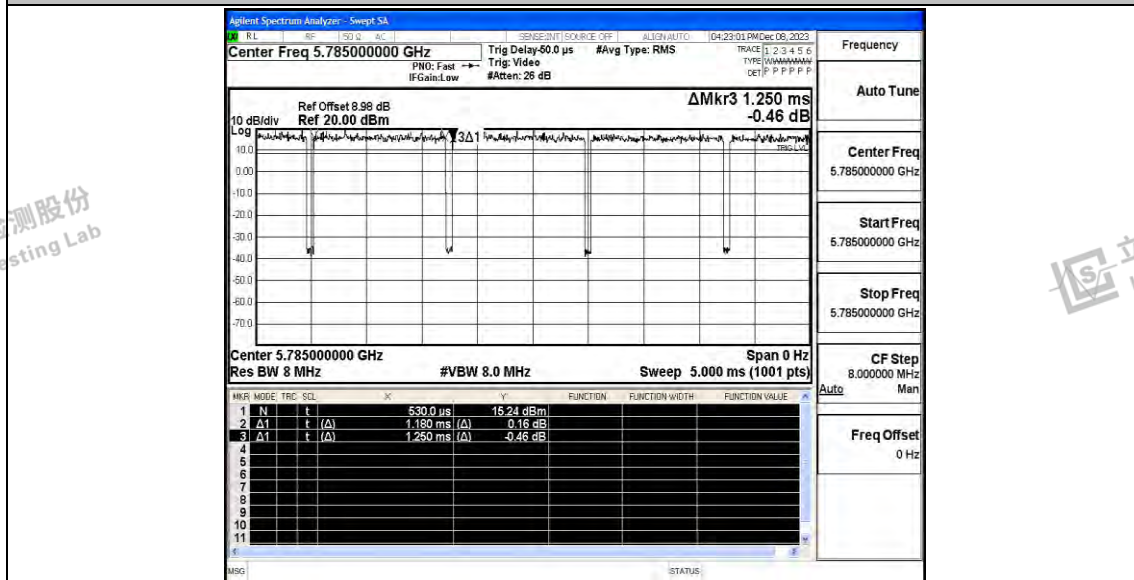


11AC20SISO_Ant0_5745





11AC20SISO_Ant0_5785



11AC20SISO_Ant0_5825

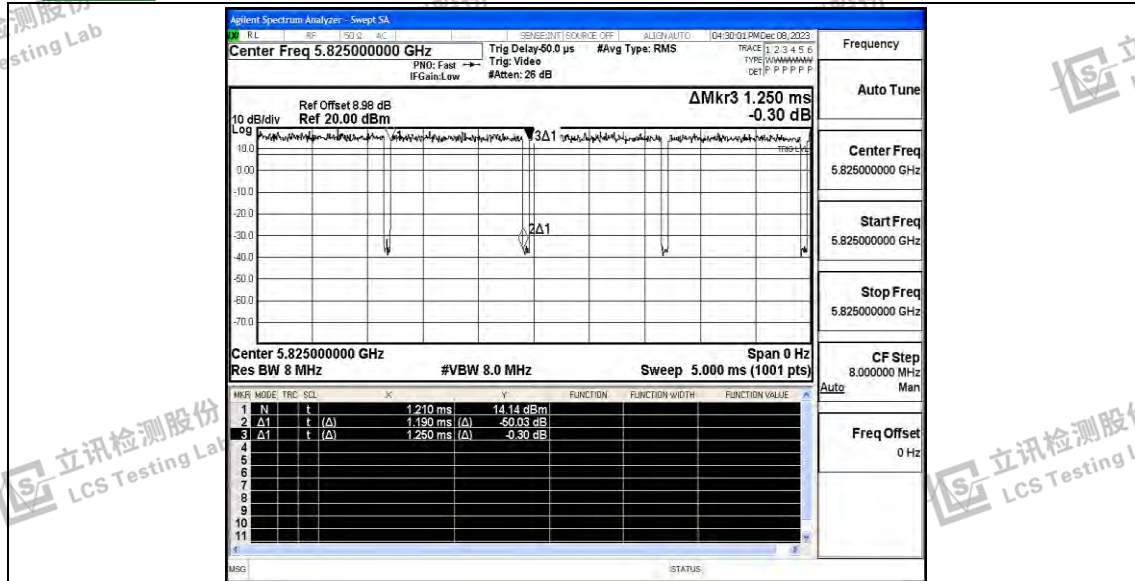


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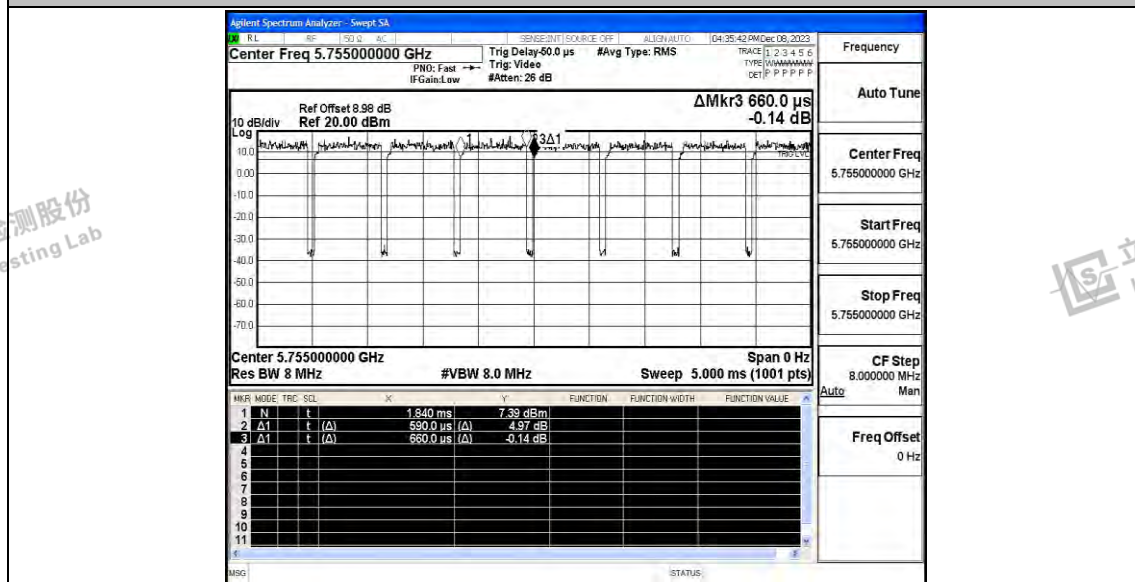
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC40SISO_Ant0_5755



11AC40SISO_Ant0_5795

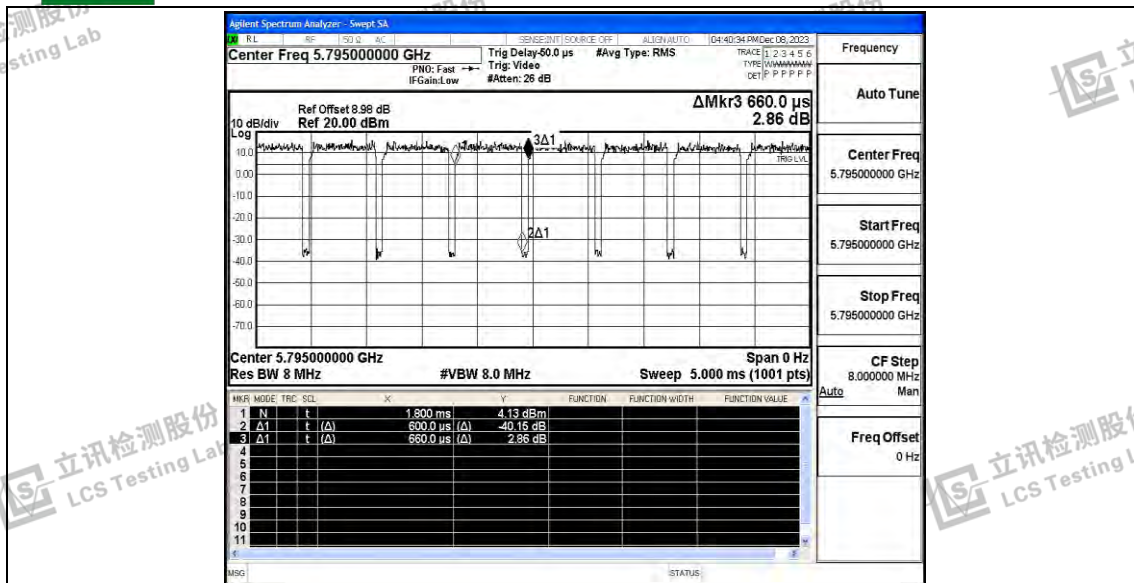


Shenzhen LCS Compliance Testing Laboratory Ltd.

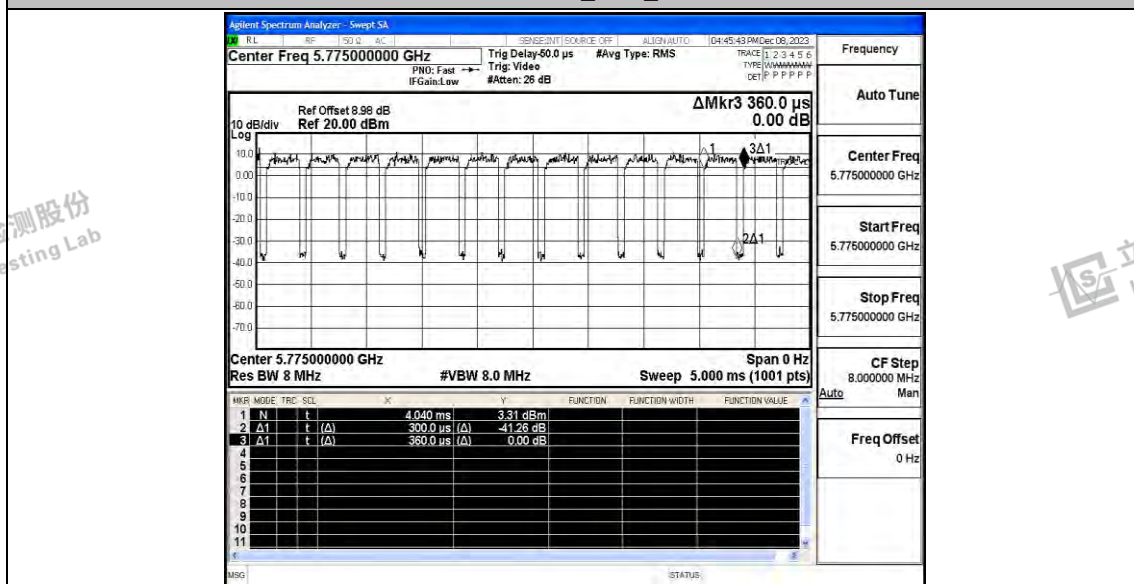
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC80SISO_Ant0_5775



**Test Result**

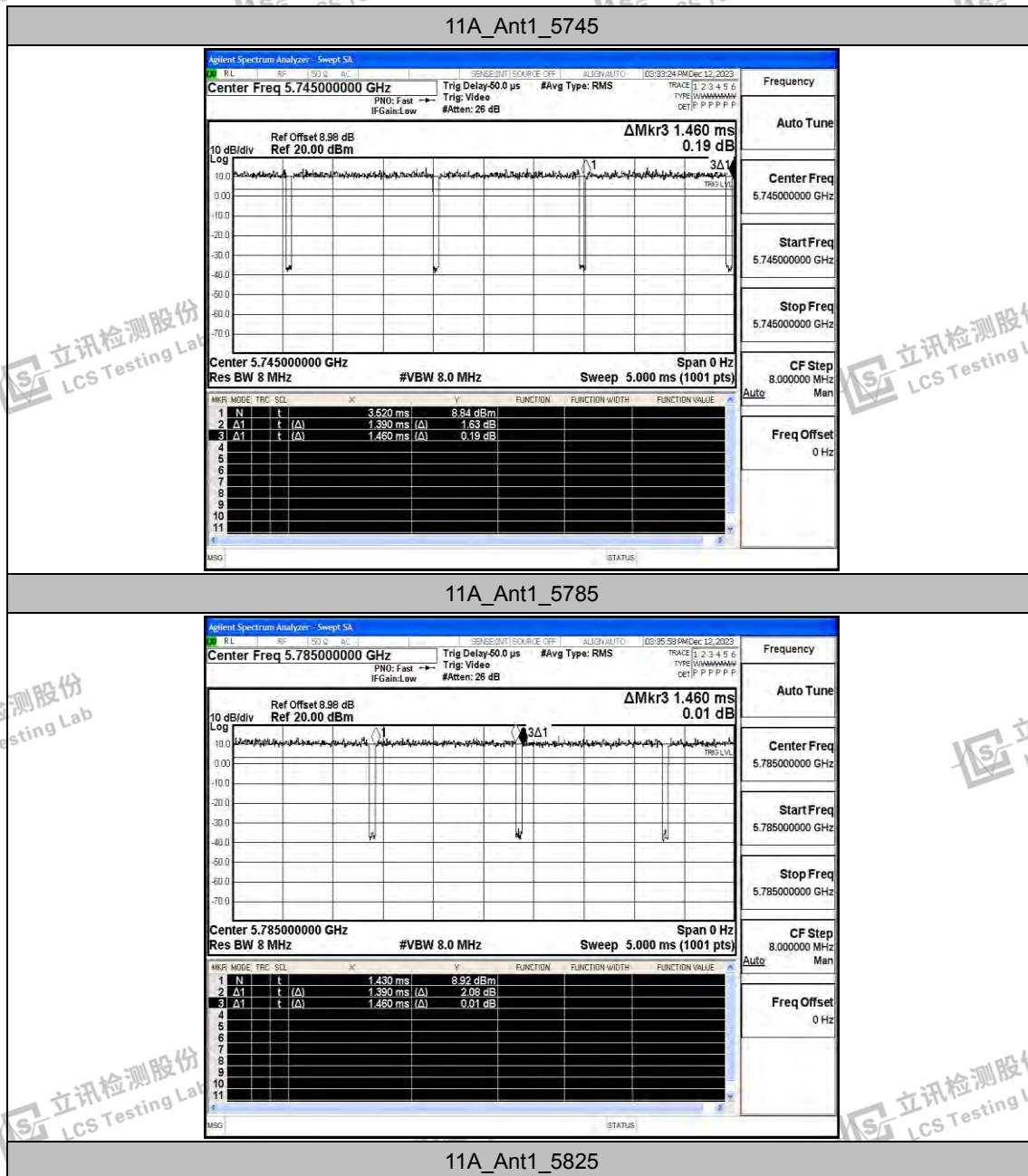
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [kHz]
11A	Ant1	5745	1.39	1.46	95.21	0.72
		5785	1.39	1.46	95.21	0.72
		5825	1.39	1.46	95.21	0.72
11N20SISO	Ant1	5745	1.18	1.24	95.16	0.85
		5785	1.18	1.24	95.16	0.85
		5825	1.18	1.24	95.16	0.85
11N40SISO	Ant1	5755	0.58	0.65	89.23	1.72
		5795	0.59	0.65	90.77	1.69
11AC20SISO	Ant1	5745	1.19	1.25	95.20	0.84
		5785	1.19	1.25	95.20	0.84
		5825	1.19	1.25	95.20	0.84
11AC40SISO	Ant1	5755	0.59	0.66	89.39	1.69
		5795	0.59	0.65	90.77	1.69
11AC80SISO	Ant1	5775	0.29	0.36	80.56	3.45

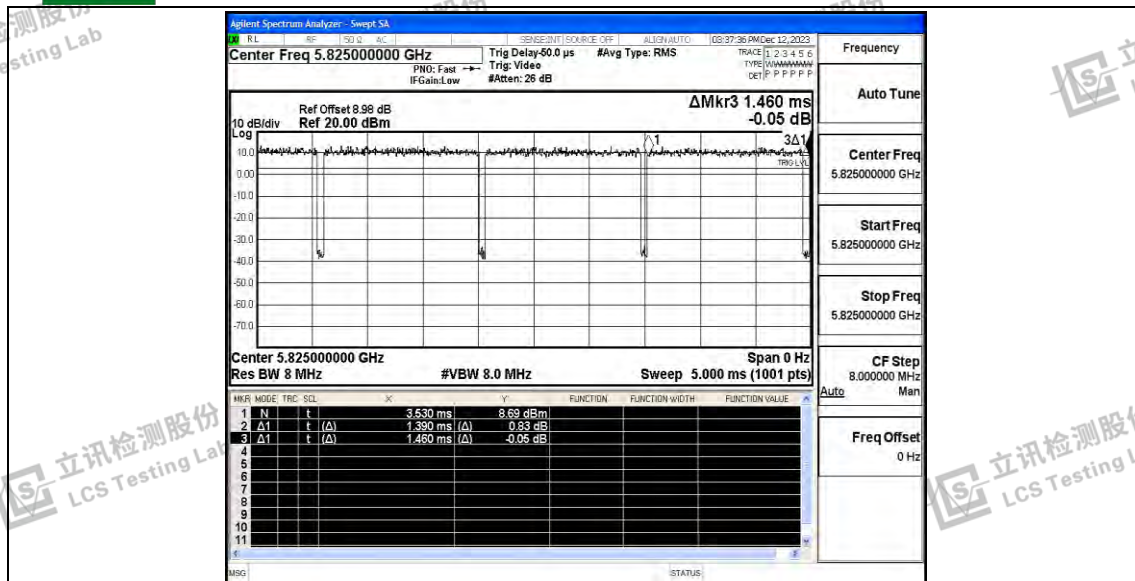


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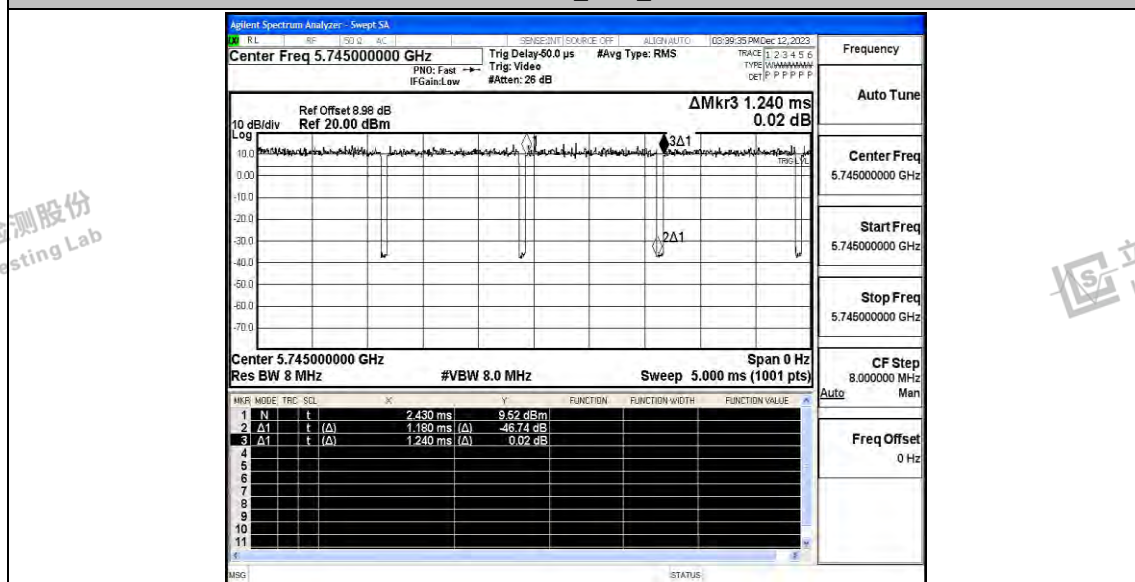


Test Graphs



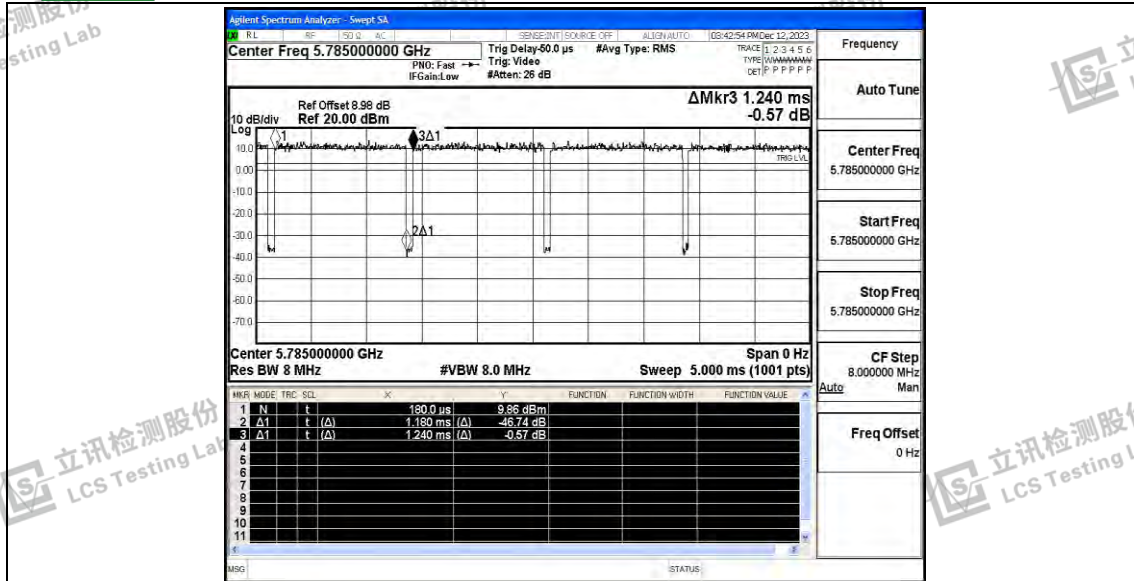


11N20SISO Ant1 5745

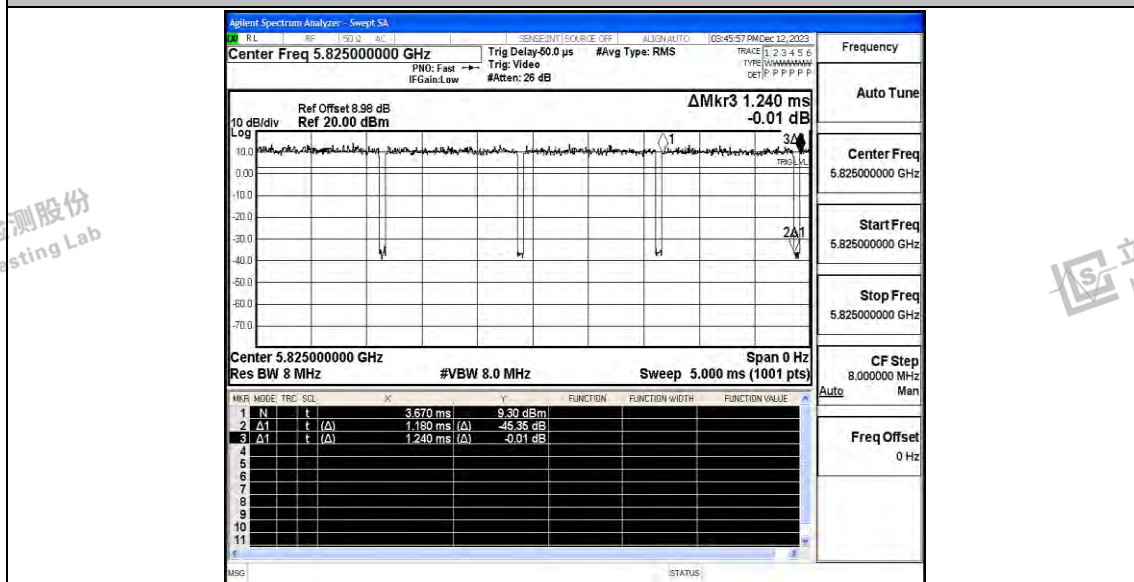


11N20SISO Ant1 5785





11N20SISO_Ant1_5825



11N40SISO_Ant1_5755

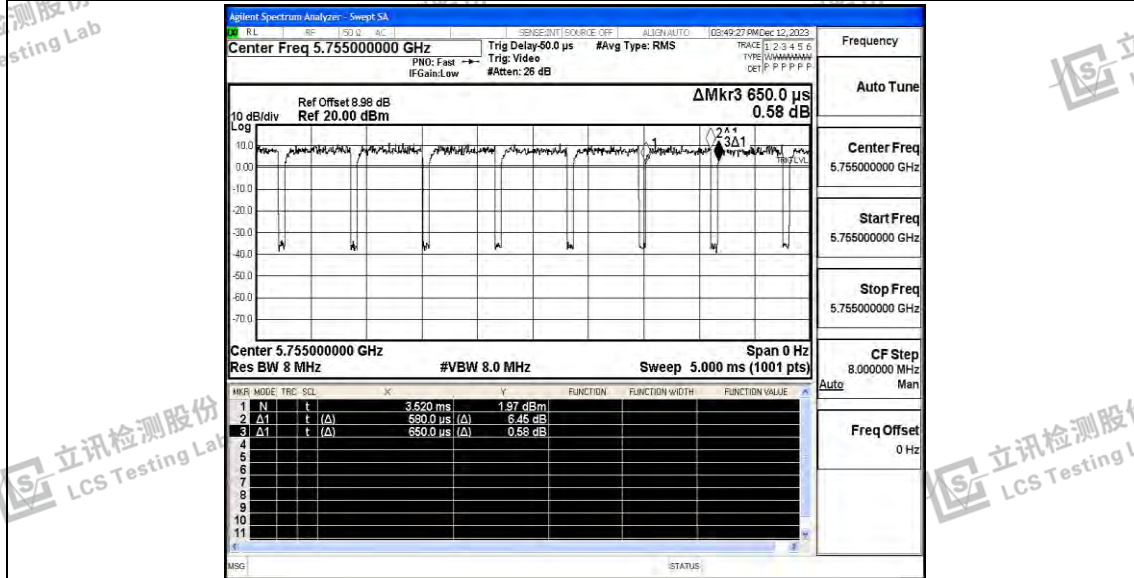


Shenzhen LCS Compliance Testing Laboratory Ltd.

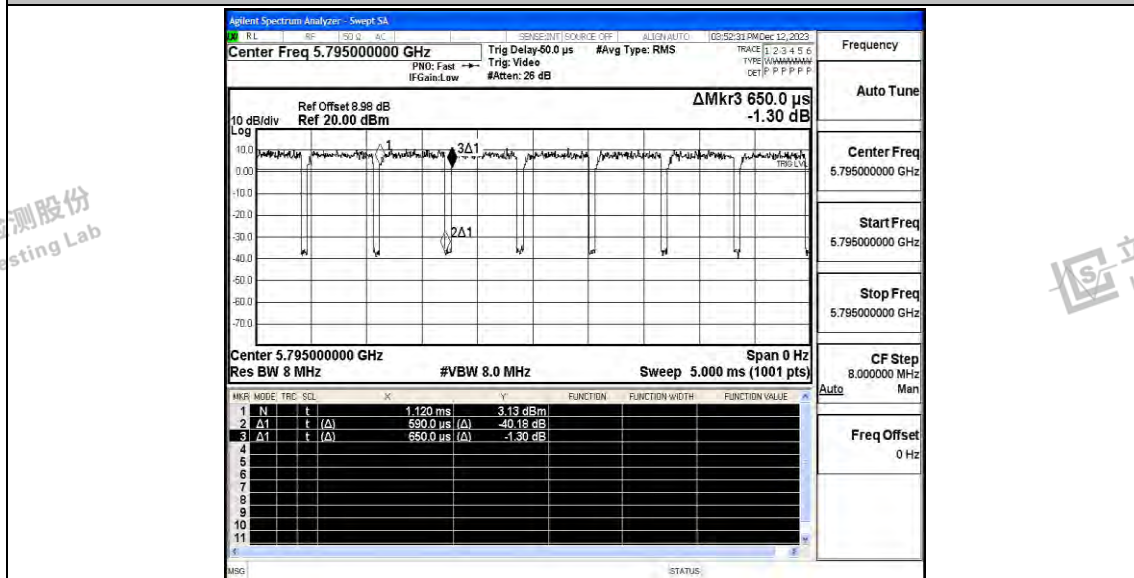
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11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

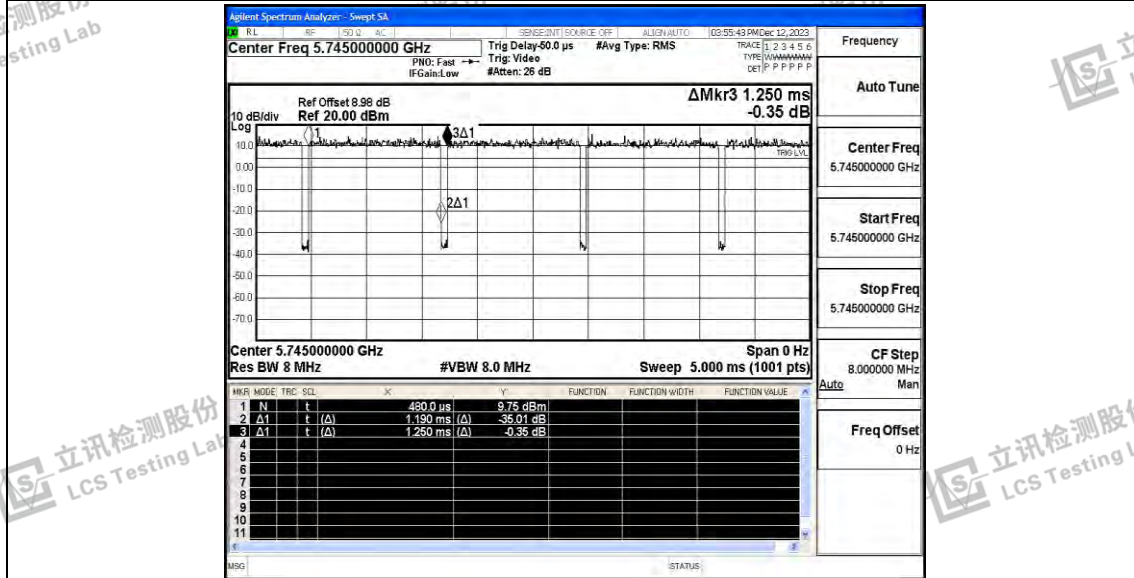


Shenzhen LCS Compliance Testing Laboratory Ltd.

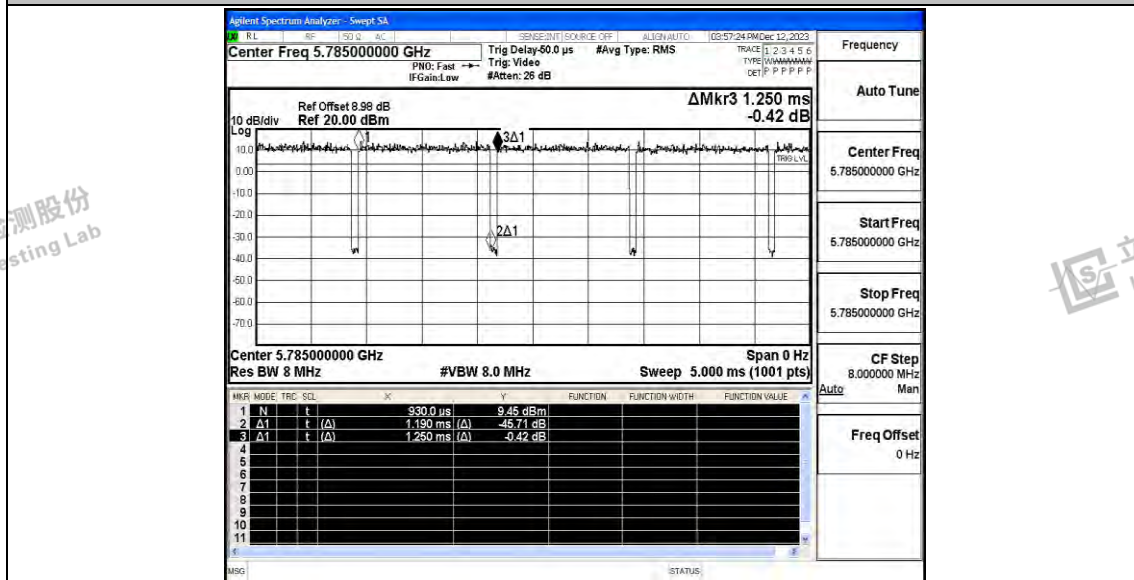
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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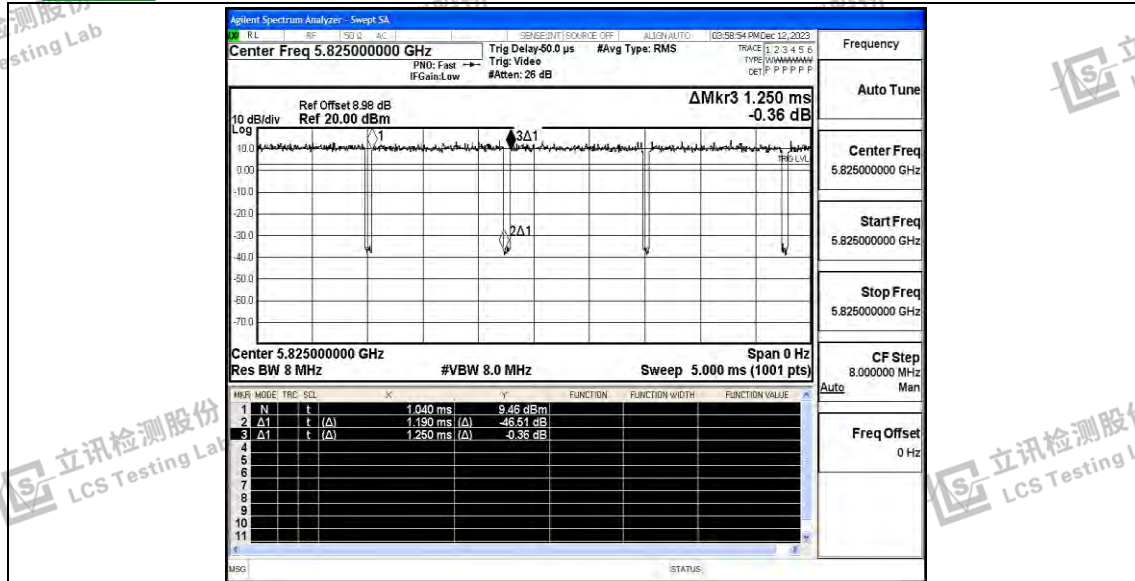


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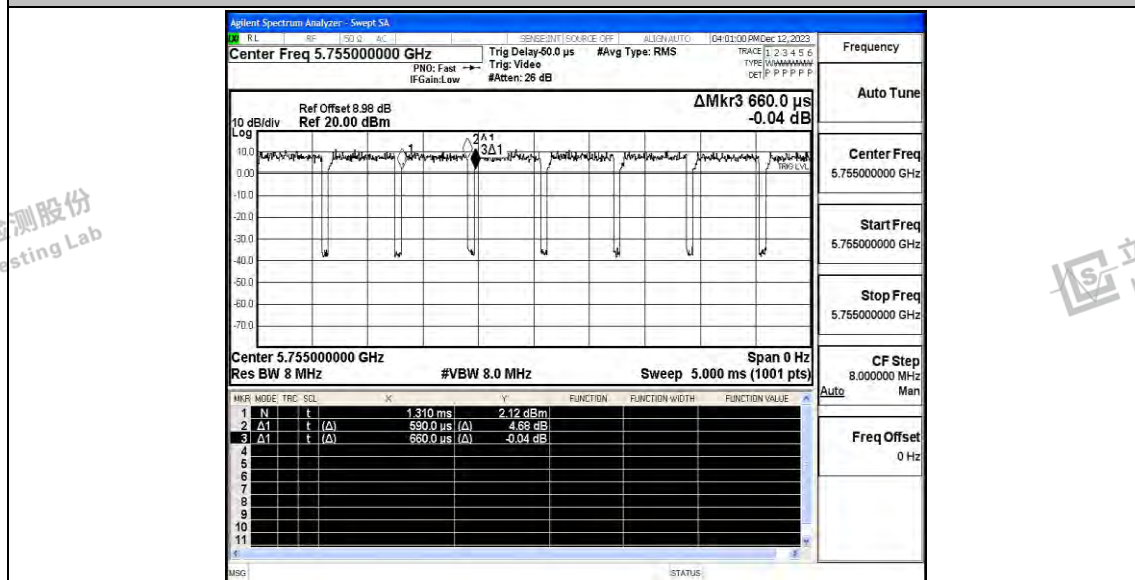


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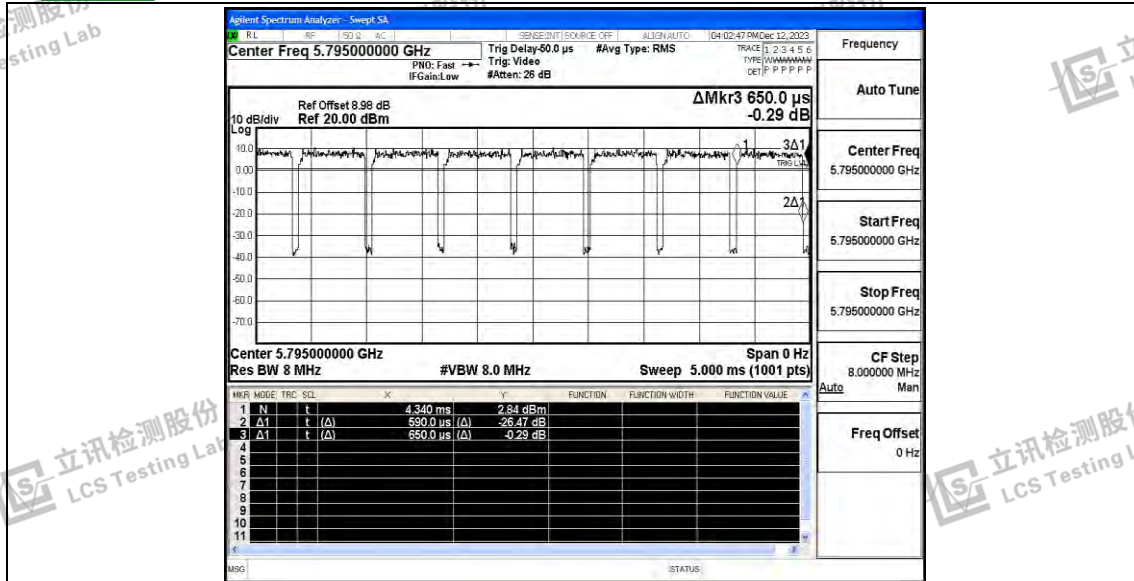


11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795





11AC80SISO_Ant1_5775

