



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: HYbook
Test Model: HT14CCIC46EG

Environmental Conditions

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





C.1 DTS Bandwidth

Test Result

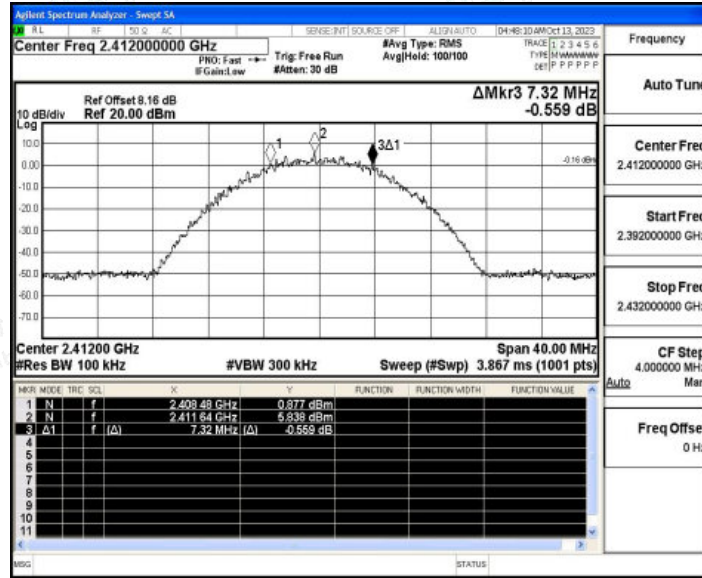
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.320	2408.480	2415.800	0.5	PASS
		2437	8.200	2432.960	2441.160	0.5	PASS
		2462	7.640	2458.320	2465.960	0.5	PASS
11G	Ant1	2412	14.680	2404.880	2419.560	0.5	PASS
		2437	14.440	2430.120	2444.560	0.5	PASS
		2462	13.800	2455.120	2468.920	0.5	PASS
11N20SISO	Ant1	2412	15.040	2404.520	2419.560	0.5	PASS
		2437	15.720	2429.400	2445.120	0.5	PASS
		2462	14.240	2455.320	2469.560	0.5	PASS
11N40SISO	Ant1	2422	33.760	2405.760	2439.520	0.5	PASS
		2437	34.960	2419.480	2454.440	0.5	PASS
		2452	35.040	2434.480	2469.520	0.5	PASS



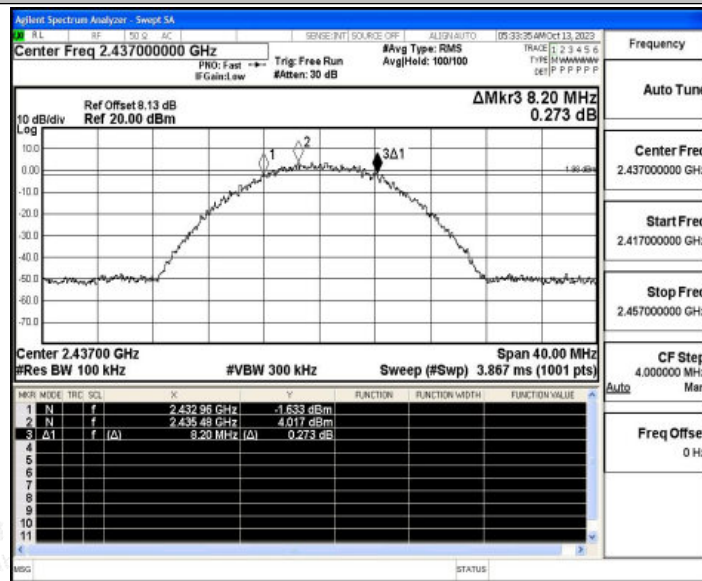


Test Graphs

11B_Ant1_2412

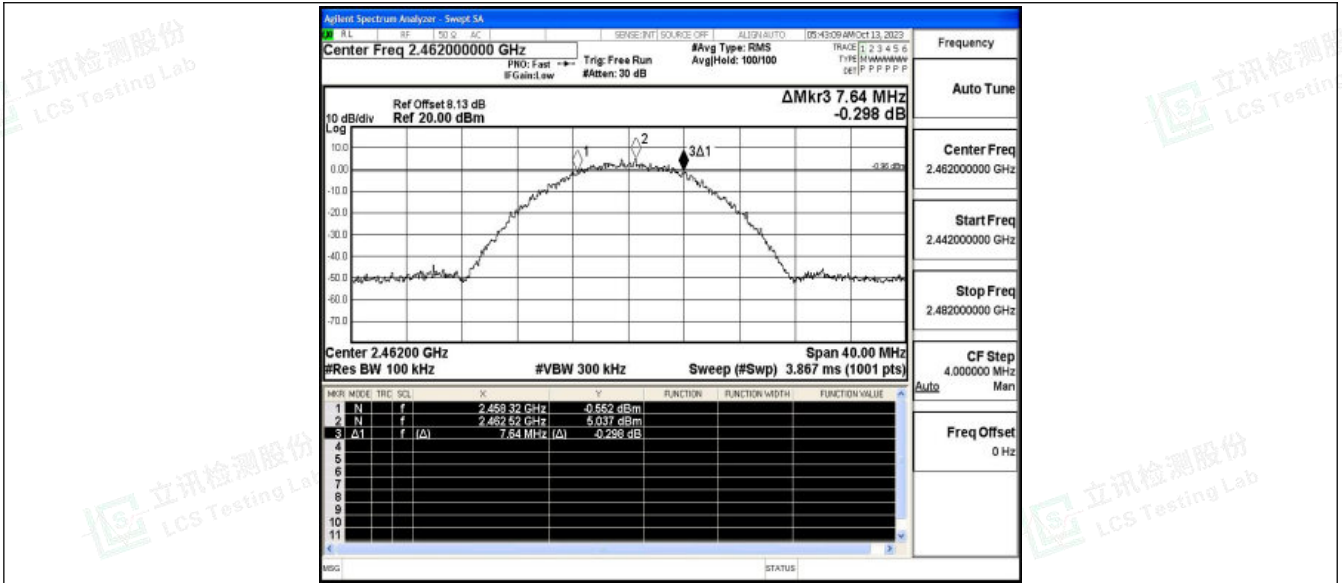


11B_Ant1_2437

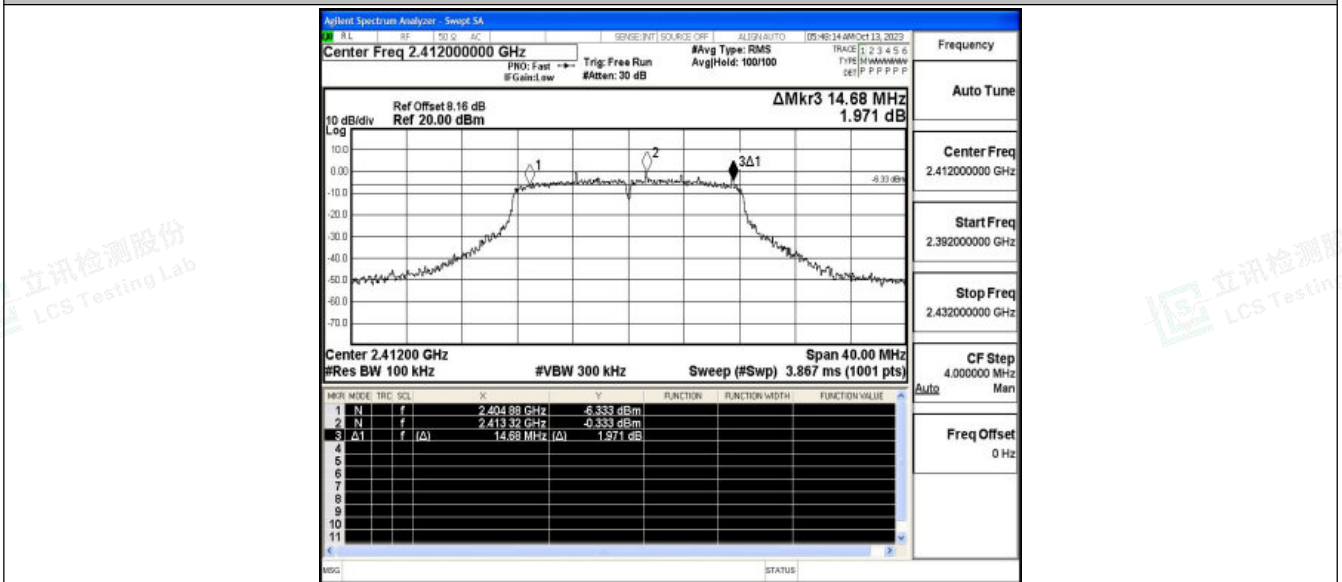


11B_Ant1_2462



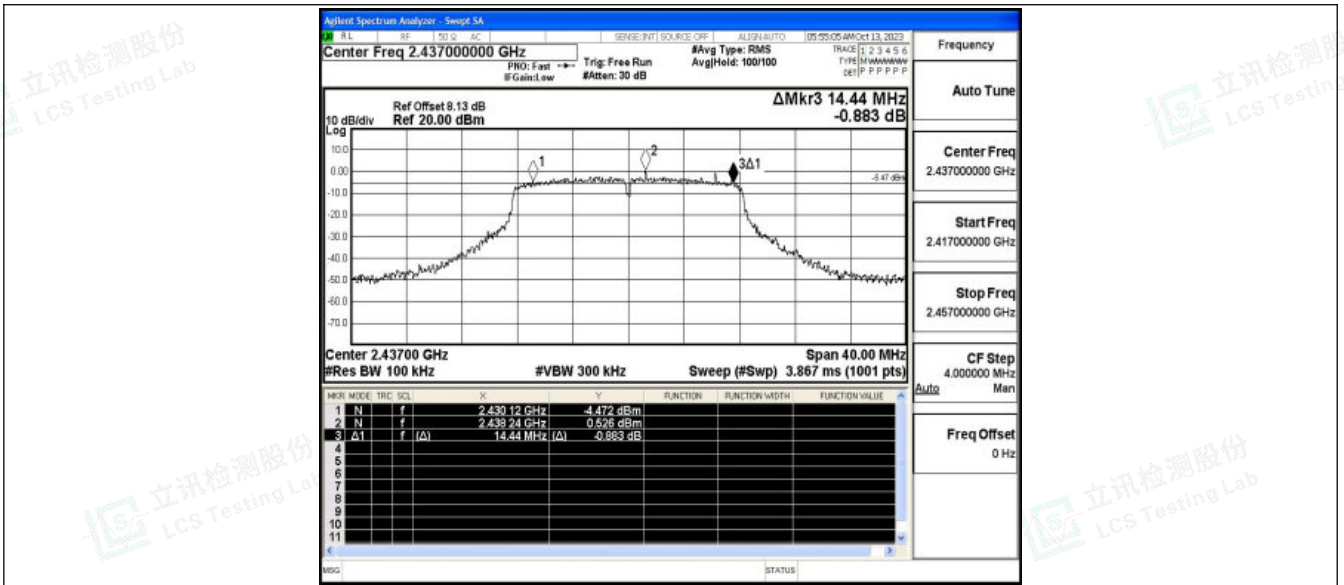


11G_Ant1_2412

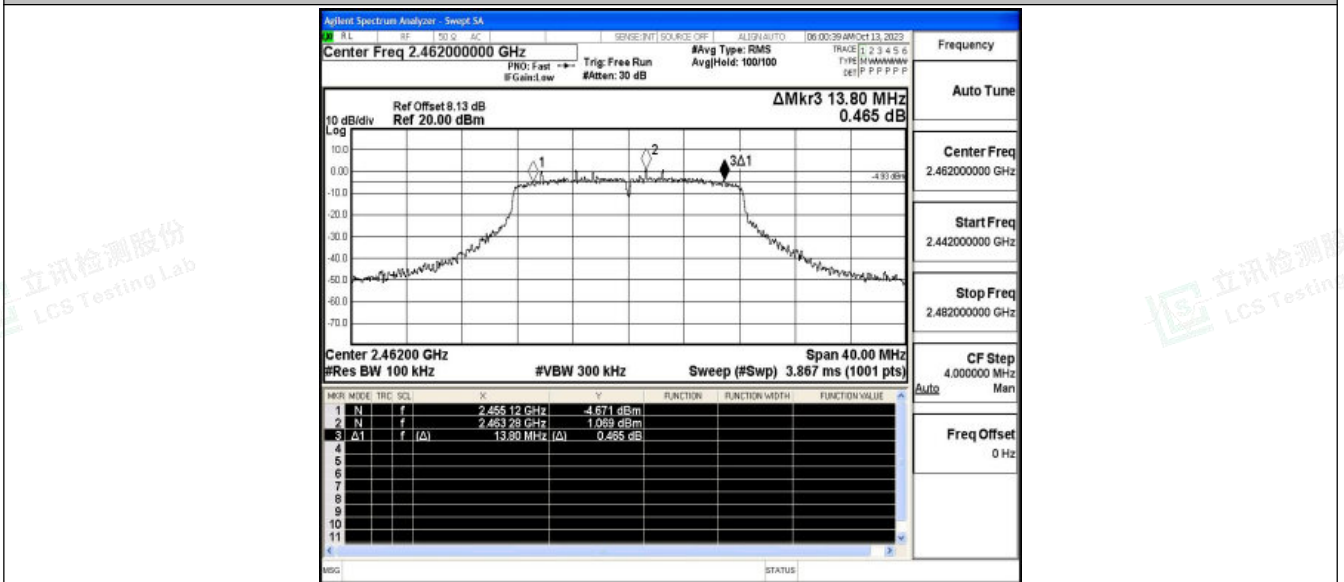


11G_Ant1_2437





11G_Ant1_2462



11N20SISO_Ant1_2412

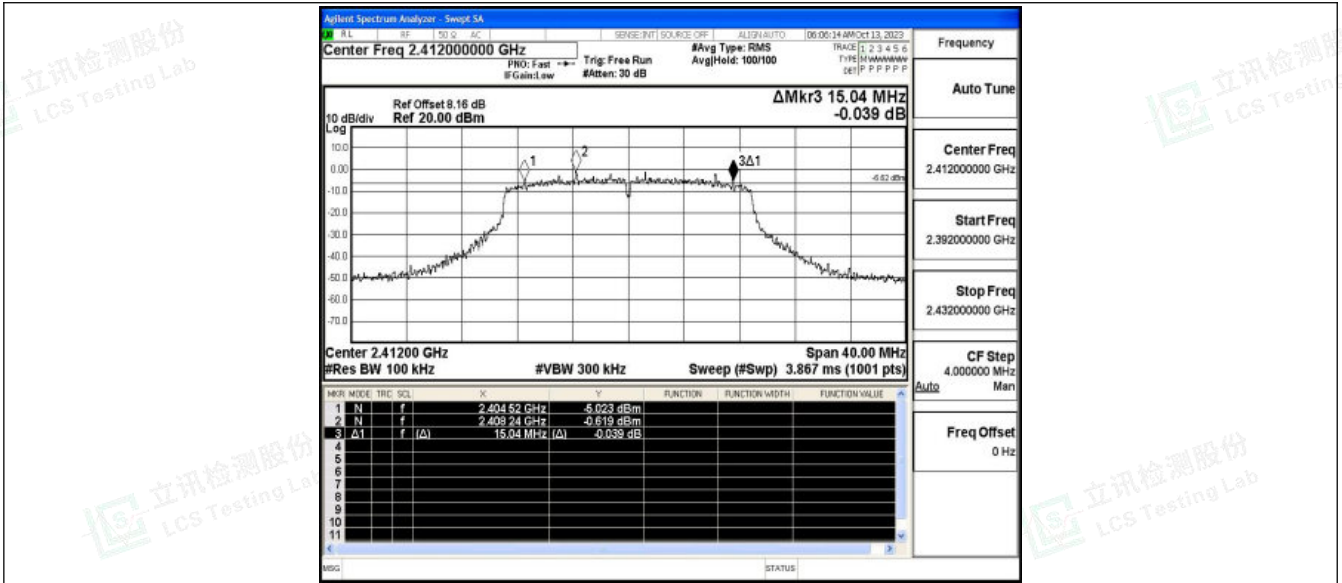


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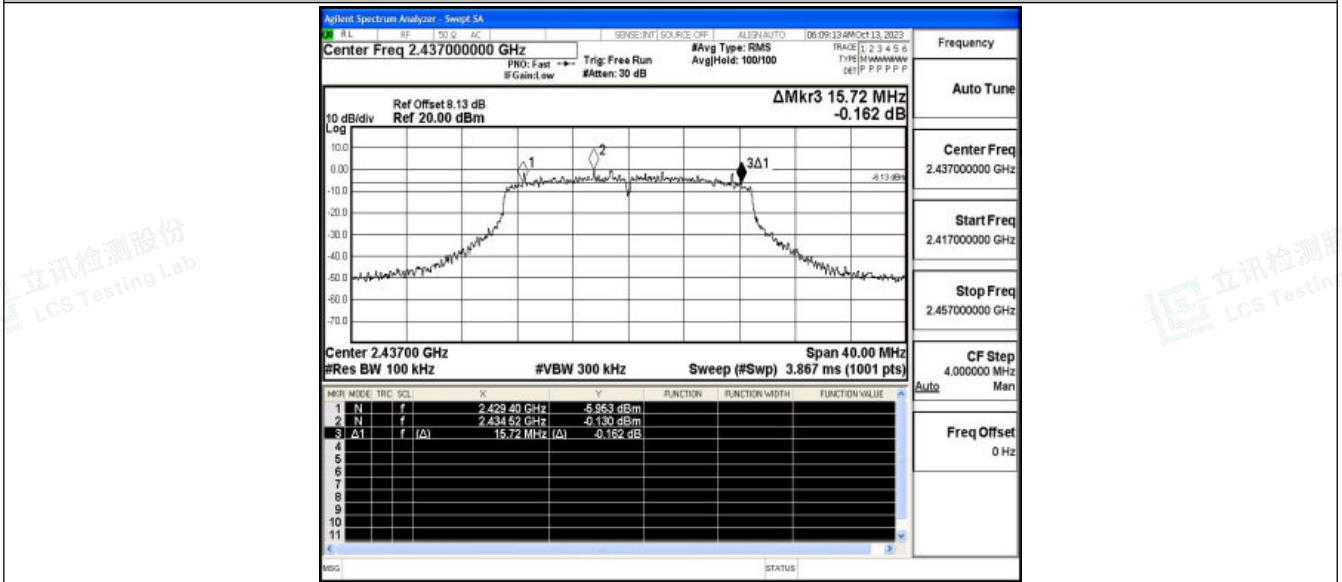
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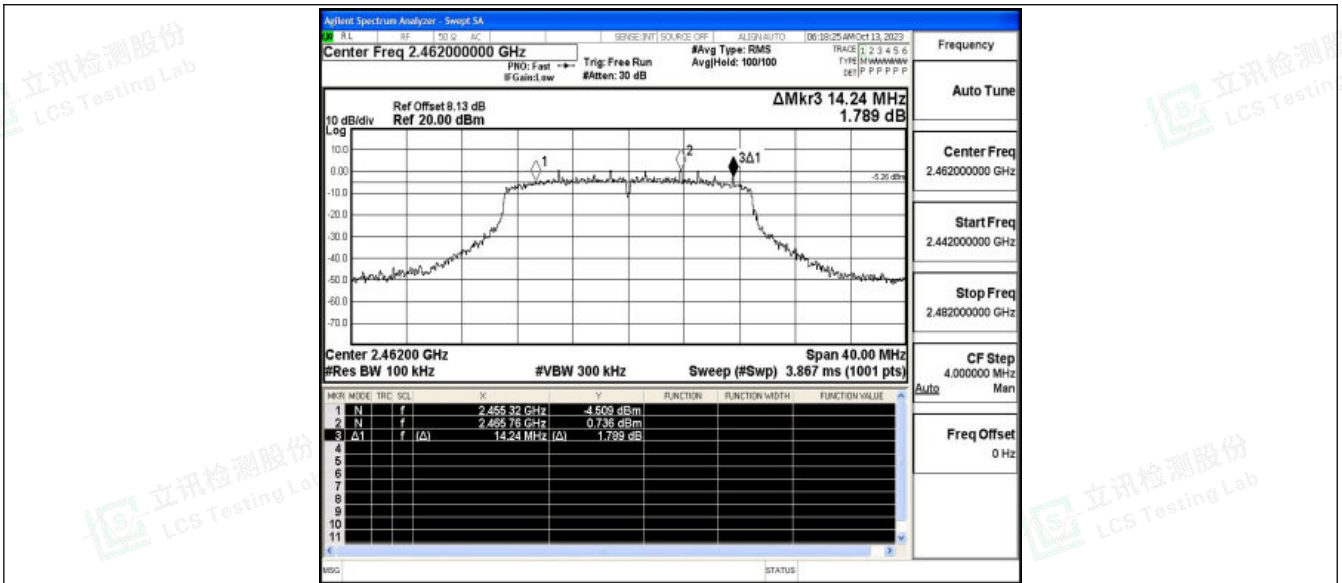


11N20SISO_Ant1_2437

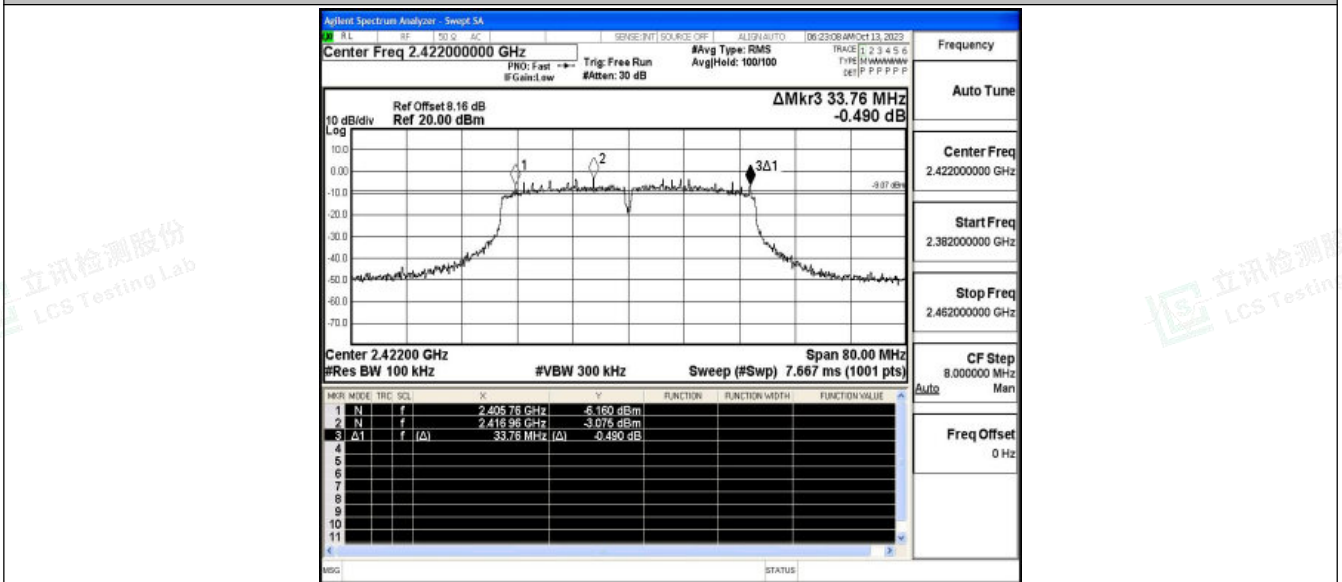


11N20SISO_Ant1_2462



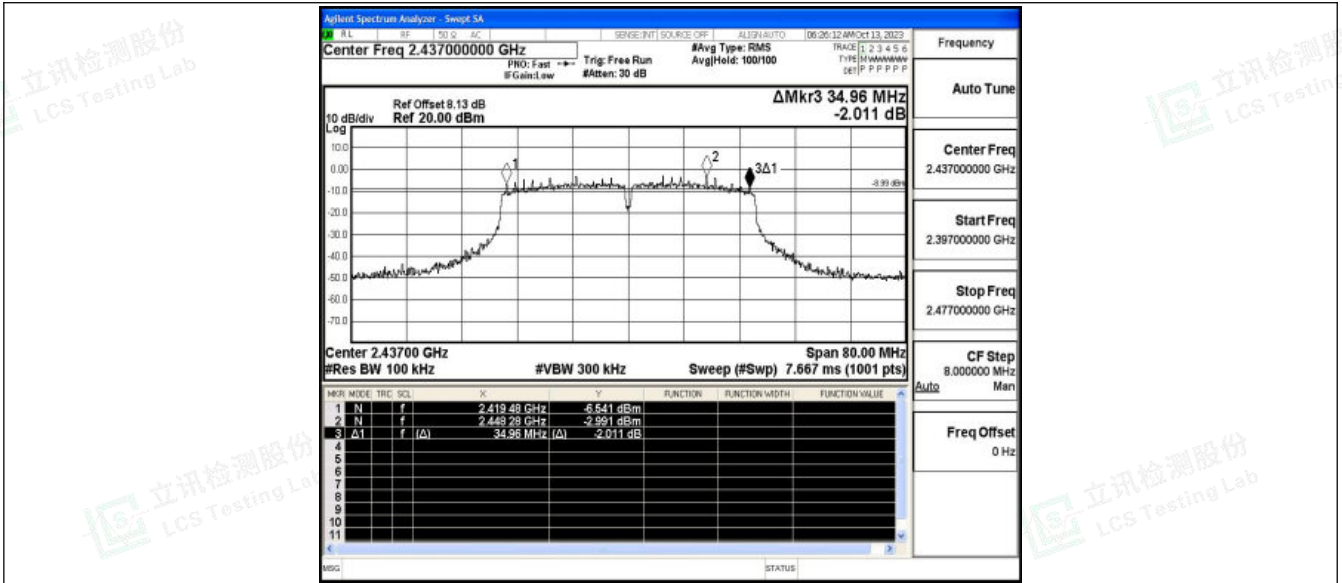


11N40SISO_Ant1_2422

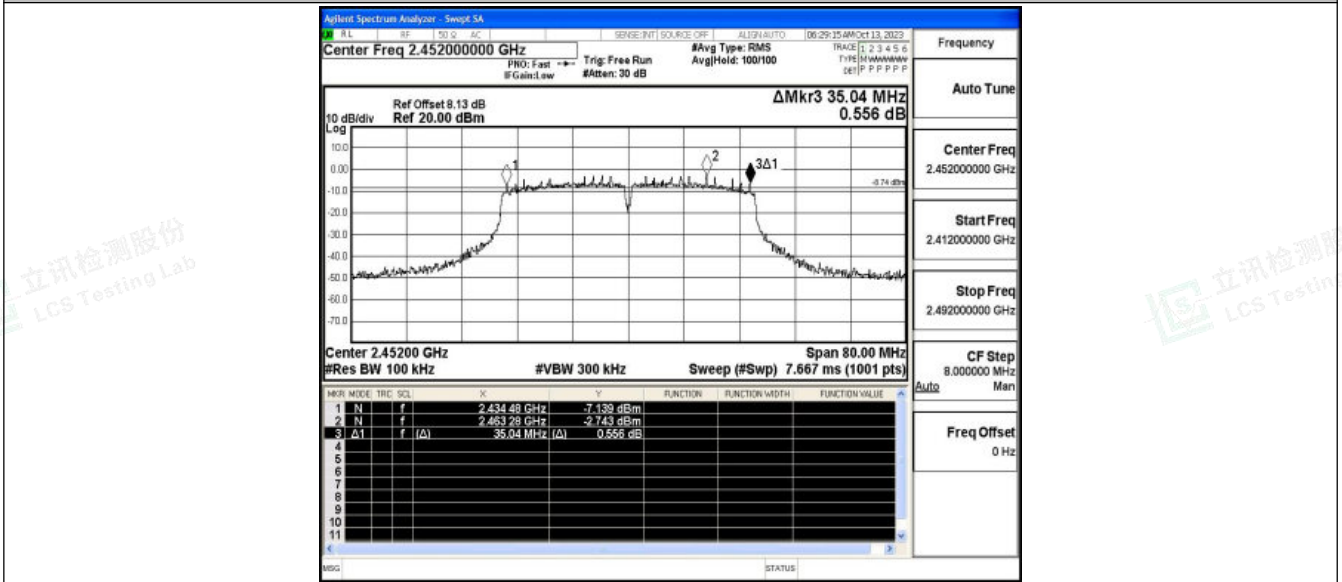


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452





C.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	17.42	≤30.00	PASS
		2437	17.33	≤30.00	PASS
		2462	17.55	≤30.00	PASS
11G	Ant1	2412	16.49	≤30.00	PASS
		2437	17.26	≤30.00	PASS
		2462	17.48	≤30.00	PASS
11N20SISO	Ant1	2412	16.45	≤30.00	PASS
		2437	17.22	≤30.00	PASS
		2462	17.47	≤30.00	PASS
11N40SISO	Ant1	2422	16.67	≤30.00	PASS
		2437	17.09	≤30.00	PASS
		2452	17.35	≤30.00	PASS





C.3 Maximum power spectral density

Test Result

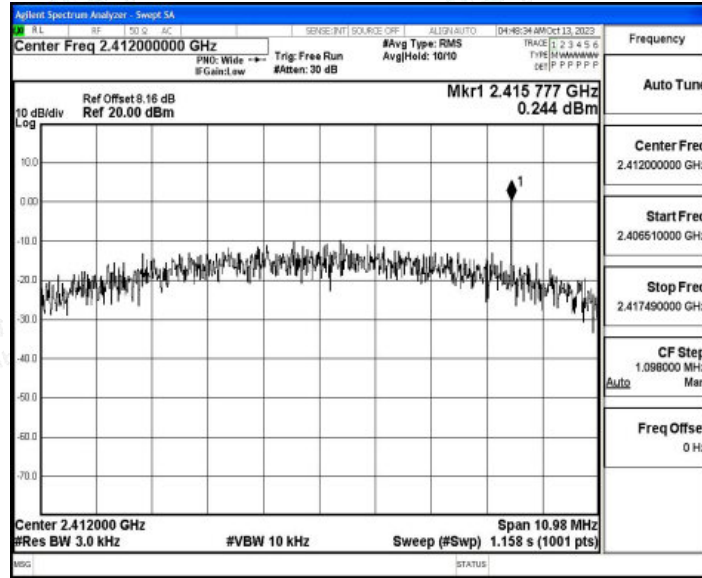
TestMode	Antenna	Freq(MHz)	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	0.24	≤8.00	PASS
		2437	-3.15	≤8.00	PASS
		2462	-3.47	≤8.00	PASS
11G	Ant1	2412	-16.01	≤8.00	PASS
		2437	-15.89	≤8.00	PASS
		2462	-15.94	≤8.00	PASS
11N20SISO	Ant1	2412	-16.66	≤8.00	PASS
		2437	-15.37	≤8.00	PASS
		2462	-15.35	≤8.00	PASS
11N40SISO	Ant1	2422	-18.05	≤8.00	PASS
		2437	-17.96	≤8.00	PASS
		2452	-18.21	≤8.00	PASS



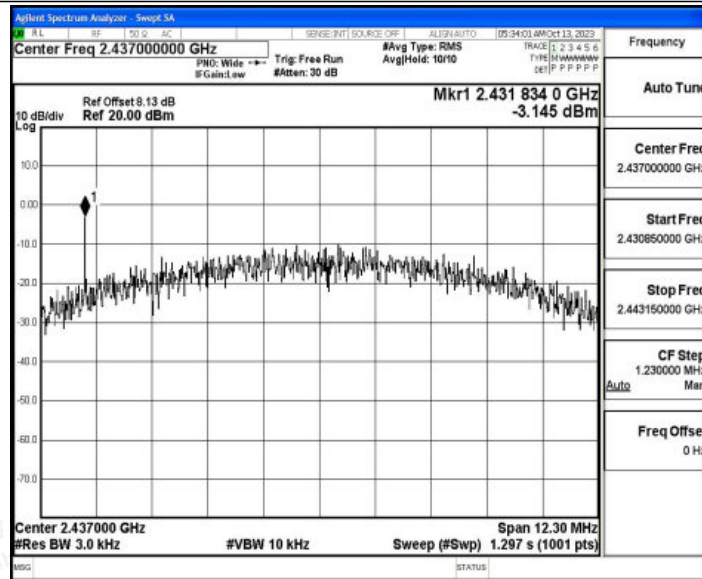


Test Graphs

11B_Ant1_2412

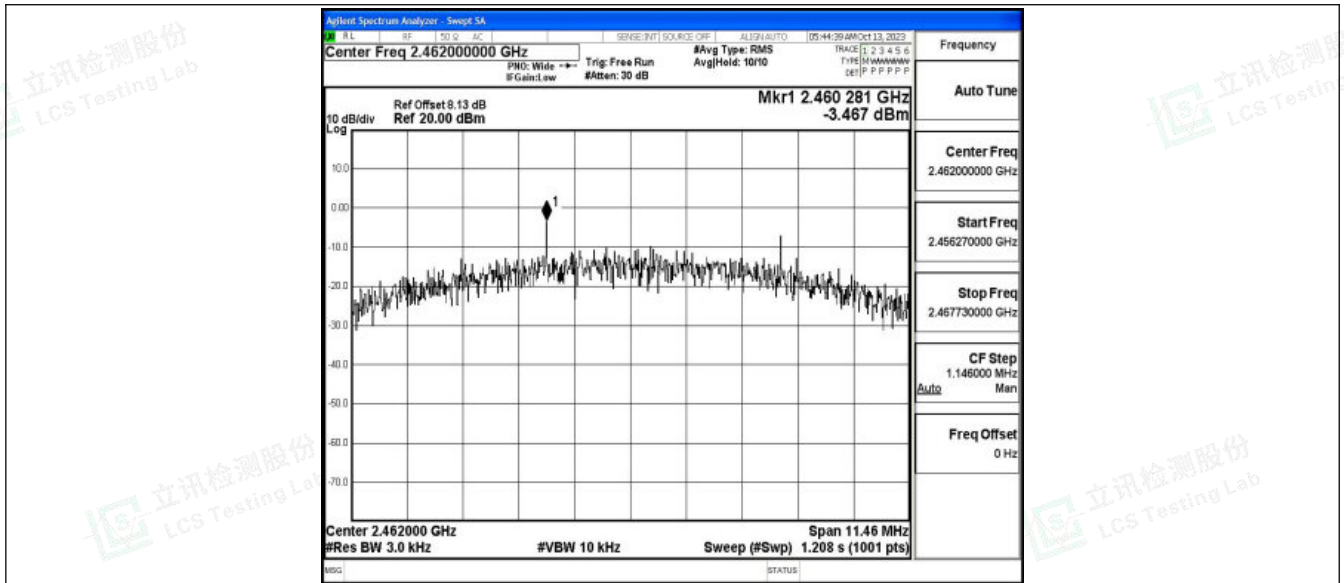


11B_Ant1_2437

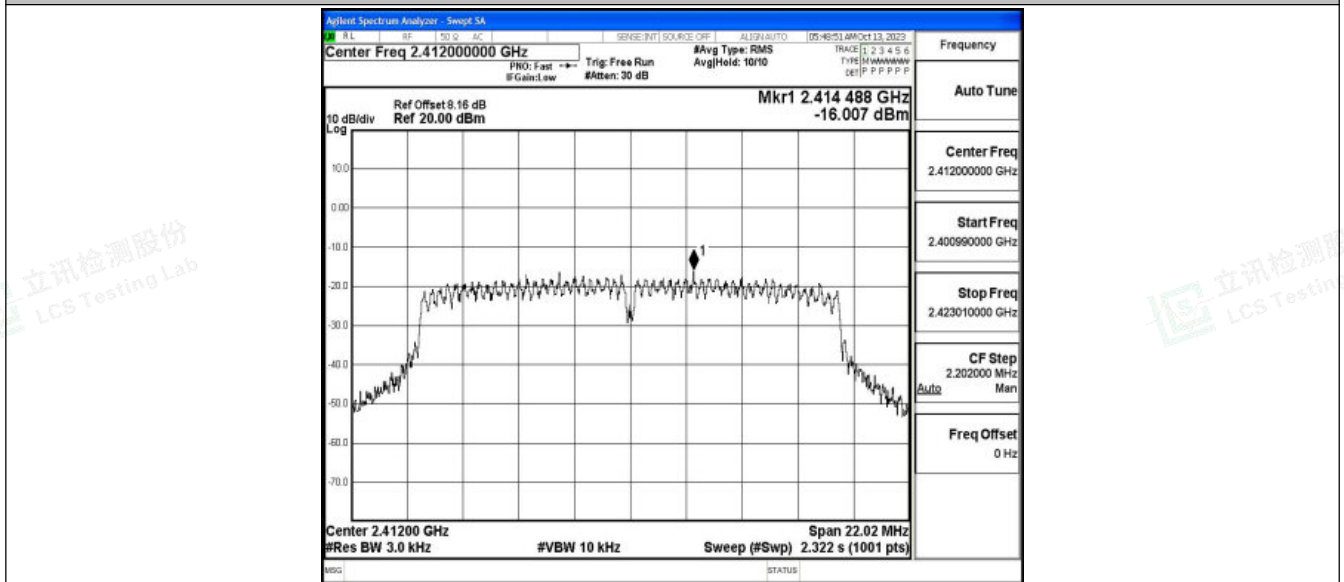


11B_Ant1_2462



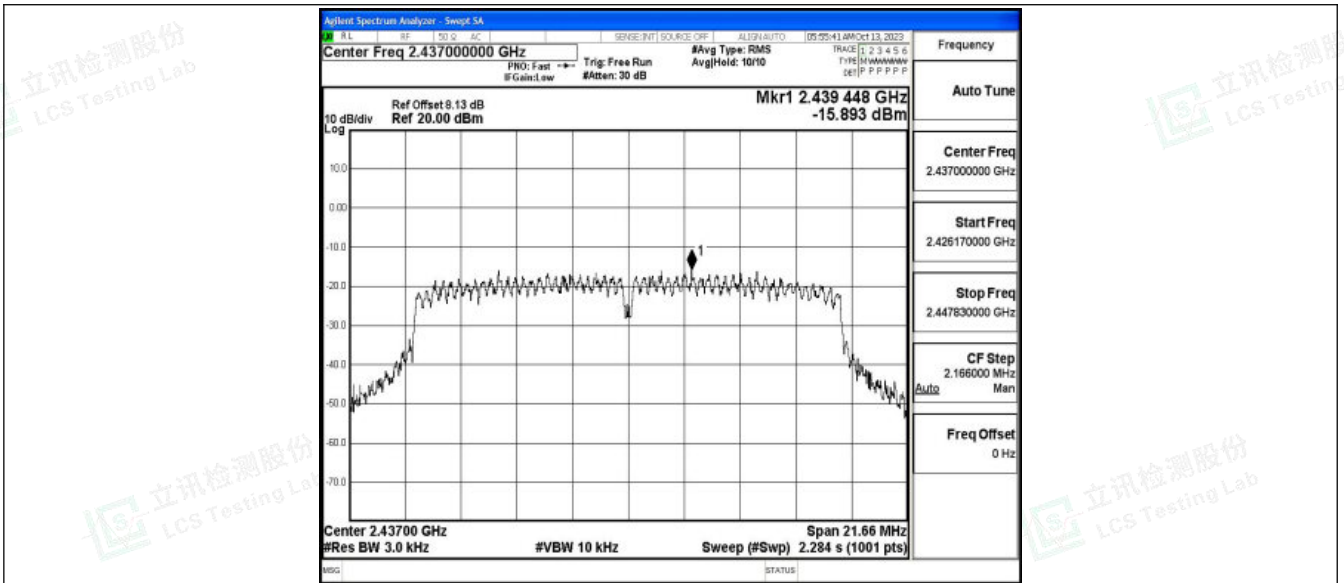


11G_Ant1_2412

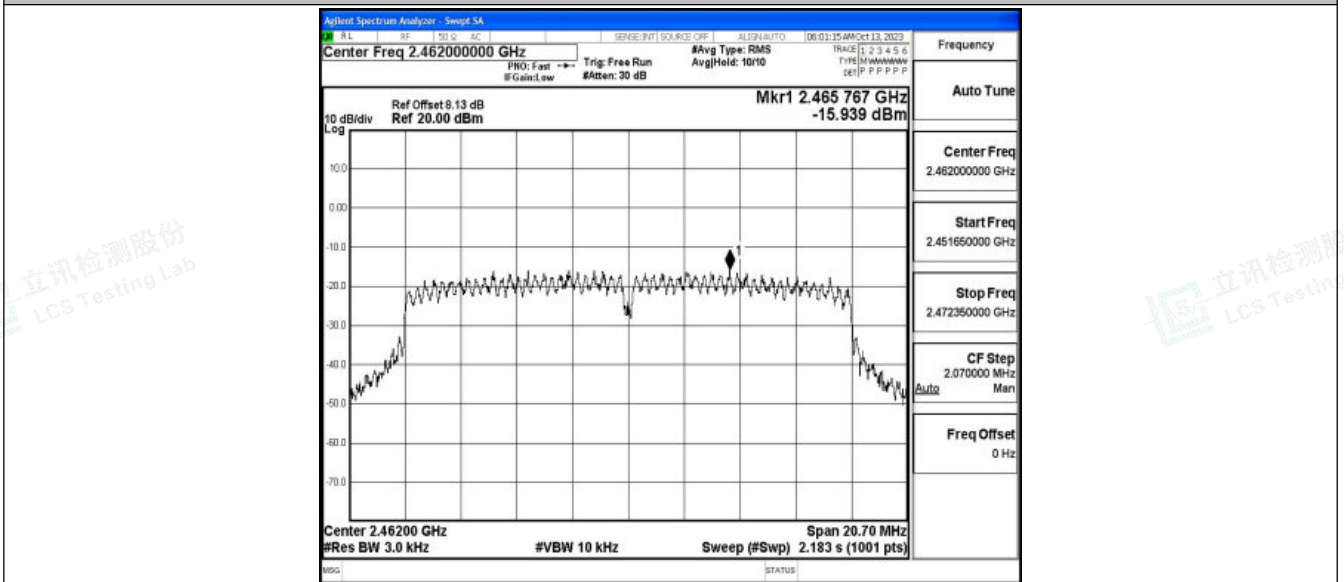


11G_Ant1_2437



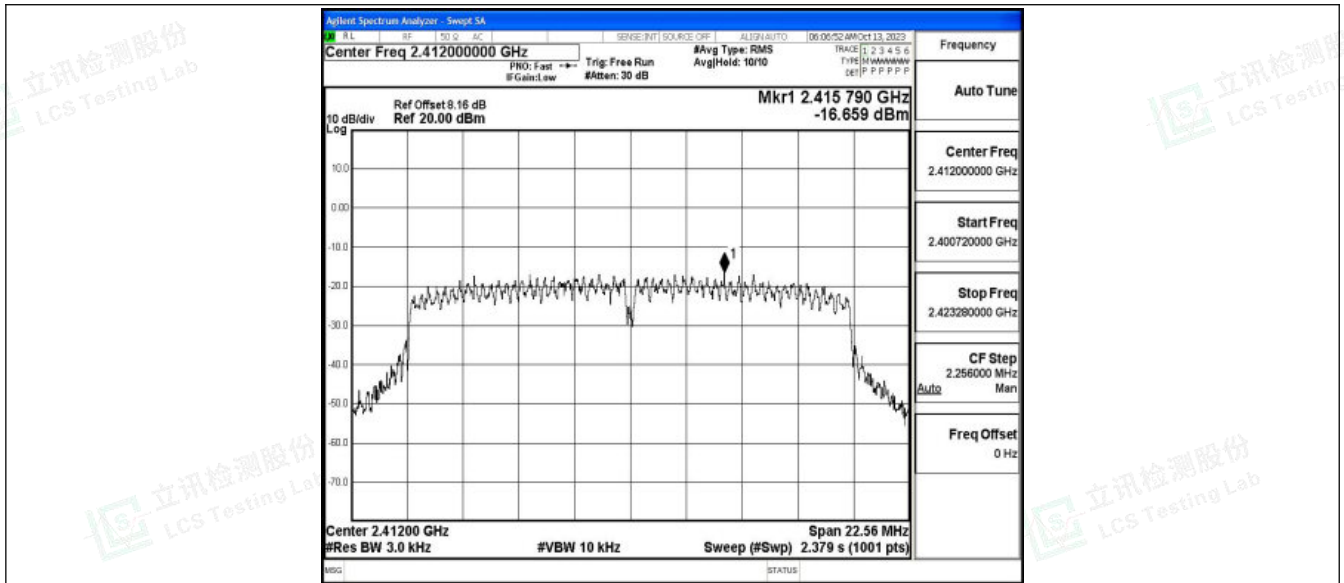


11G_Ant1_2462

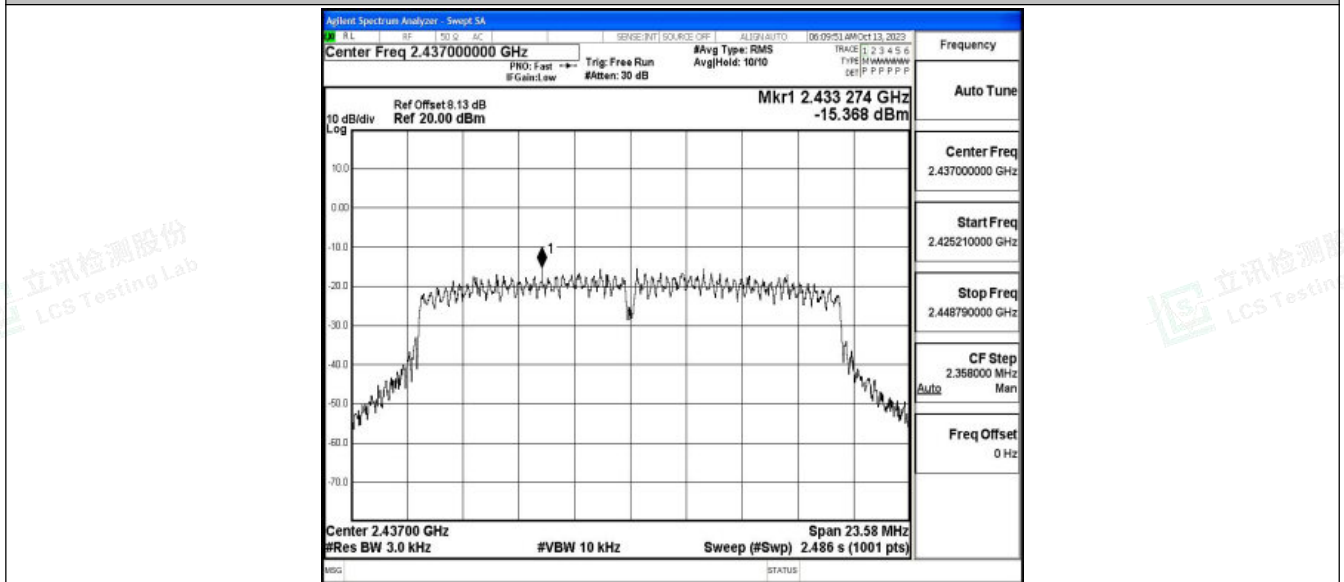


11N20SISO_Ant1_2412



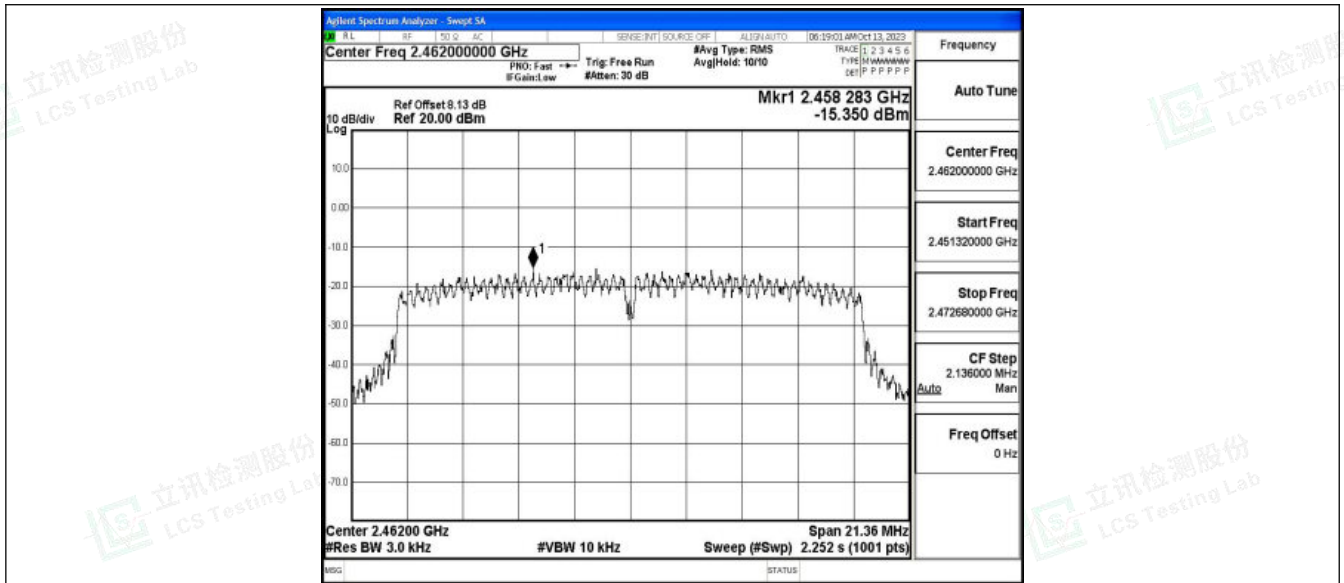


11N20SISO_Ant1_2437

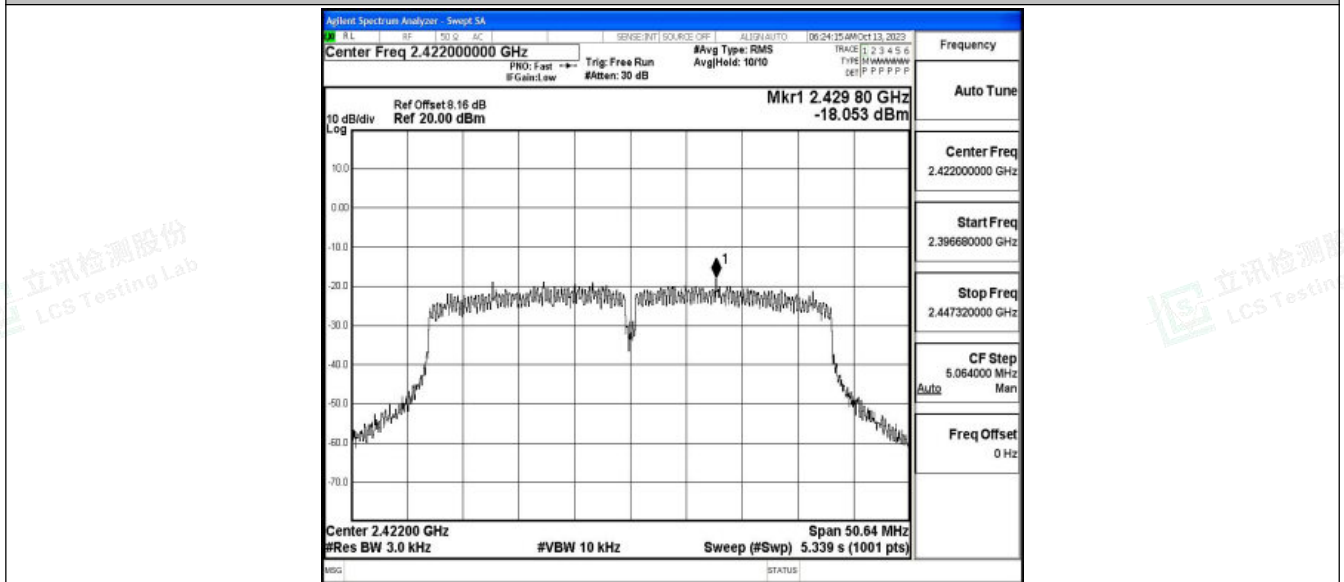


11N20SISO_Ant1_2462



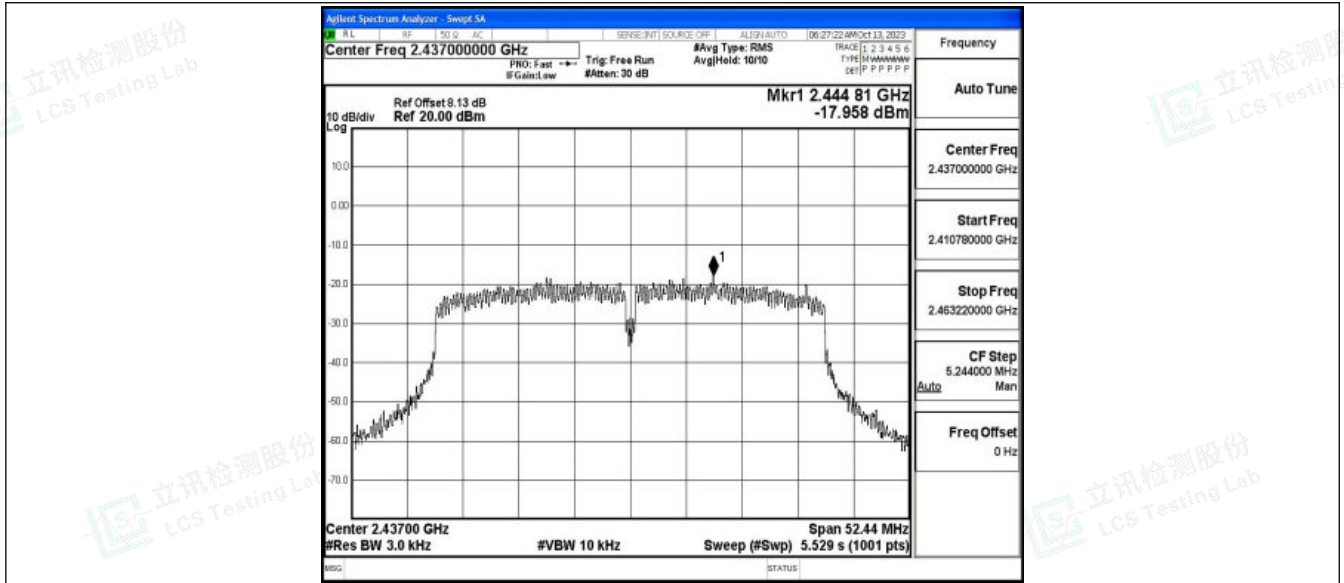


11N40SISO_Ant1_2422

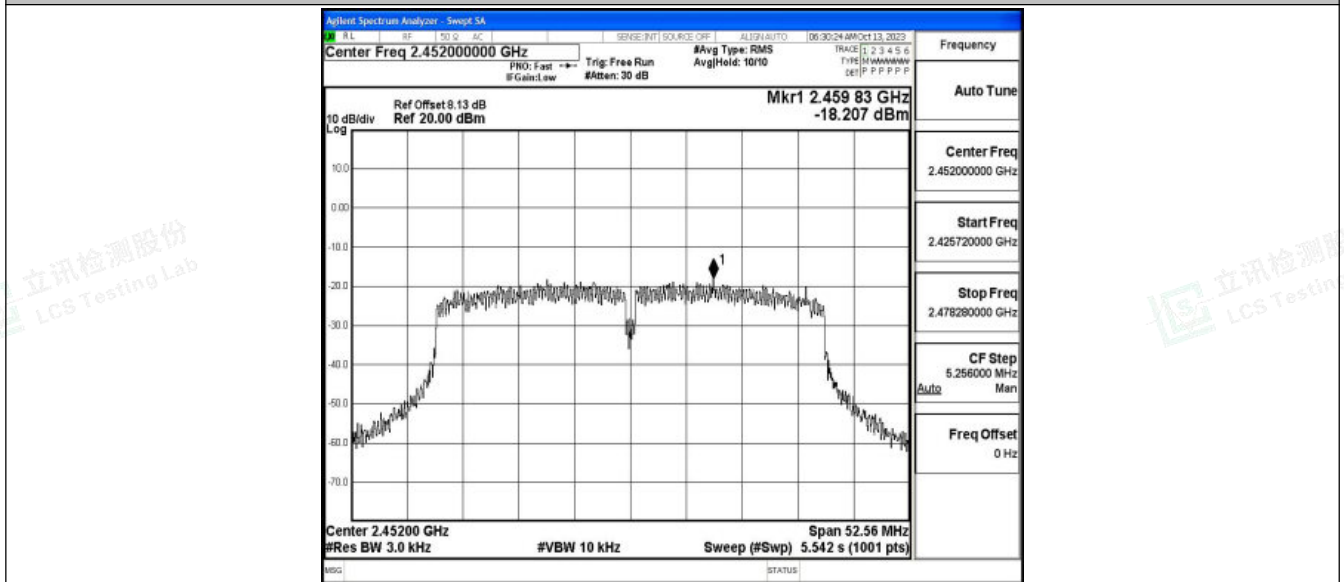


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452





C.4 Band edge measurements

Test Result

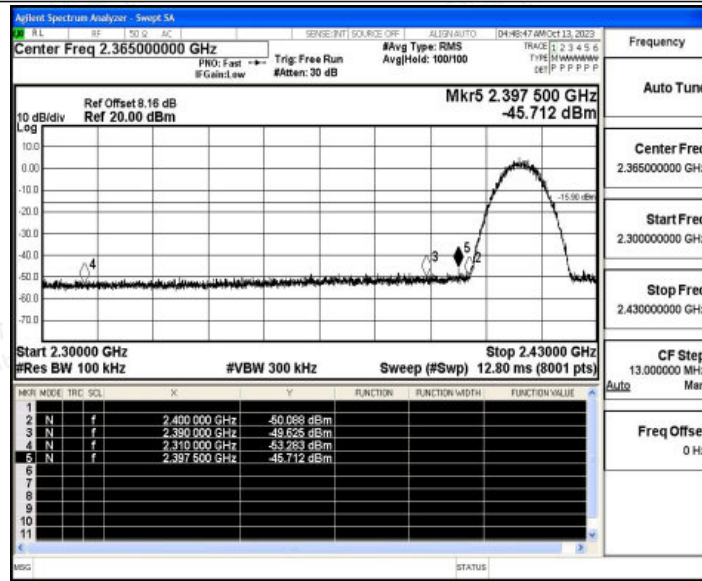
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.10	-45.71	≤-15.9	PASS
		High	2462	3.93	-48.32	≤-16.07	PASS
11G	Ant1	Low	2412	-0.31	-37.73	≤-20.31	PASS
		High	2462	-0.37	-47.65	≤-20.37	PASS
11N20SISO	Ant1	Low	2412	-0.84	-36.98	≤-20.84	PASS
		High	2462	0.98	-47.6	≤-19.02	PASS
11N40SISO	Ant1	Low	2422	-3.14	-37.14	≤-23.14	PASS
		High	2452	-2.40	-45.21	≤-22.4	PASS



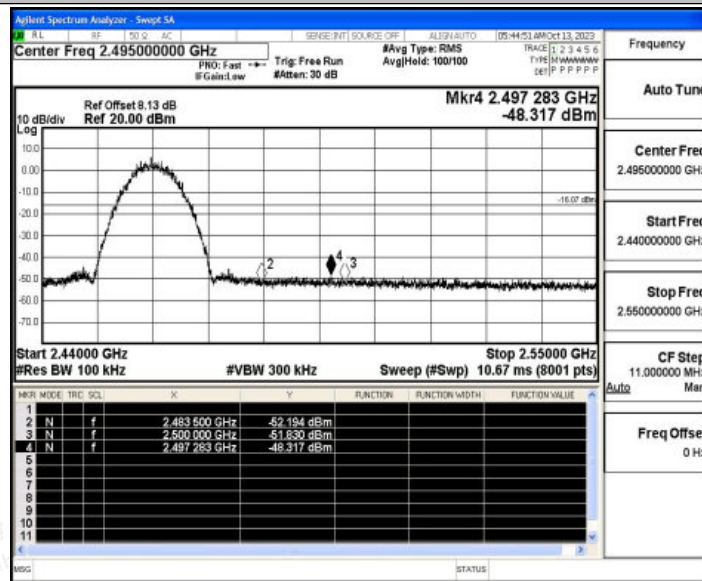


Test Graphs

11B_Ant1_Low_2412

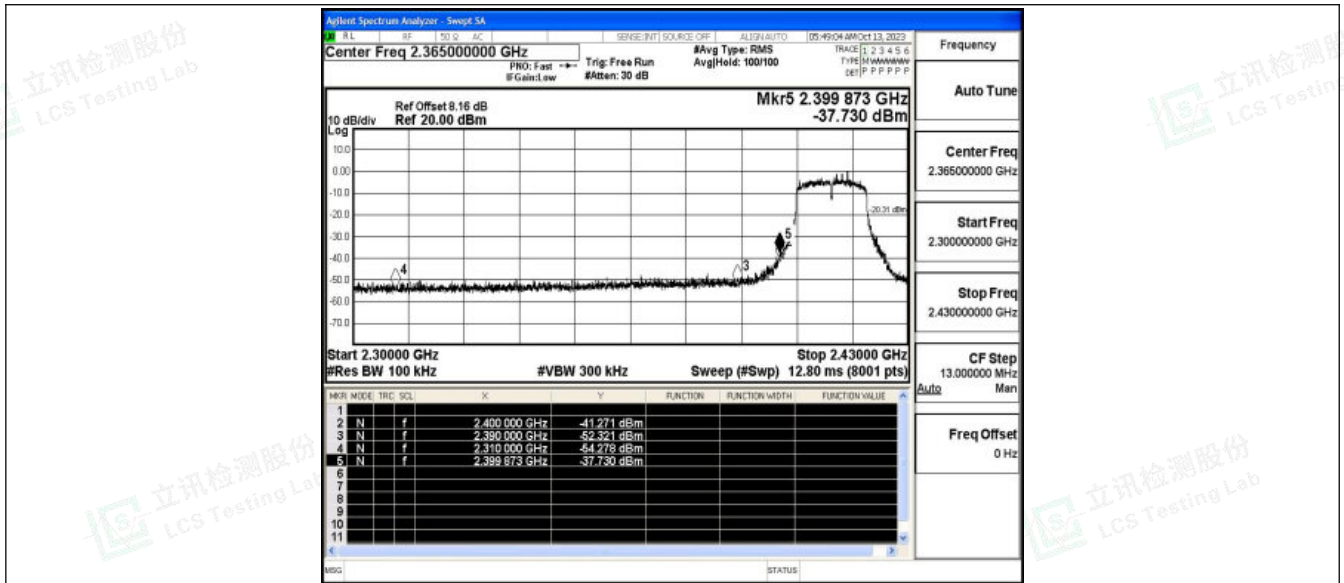


11B_Ant1_High_2462

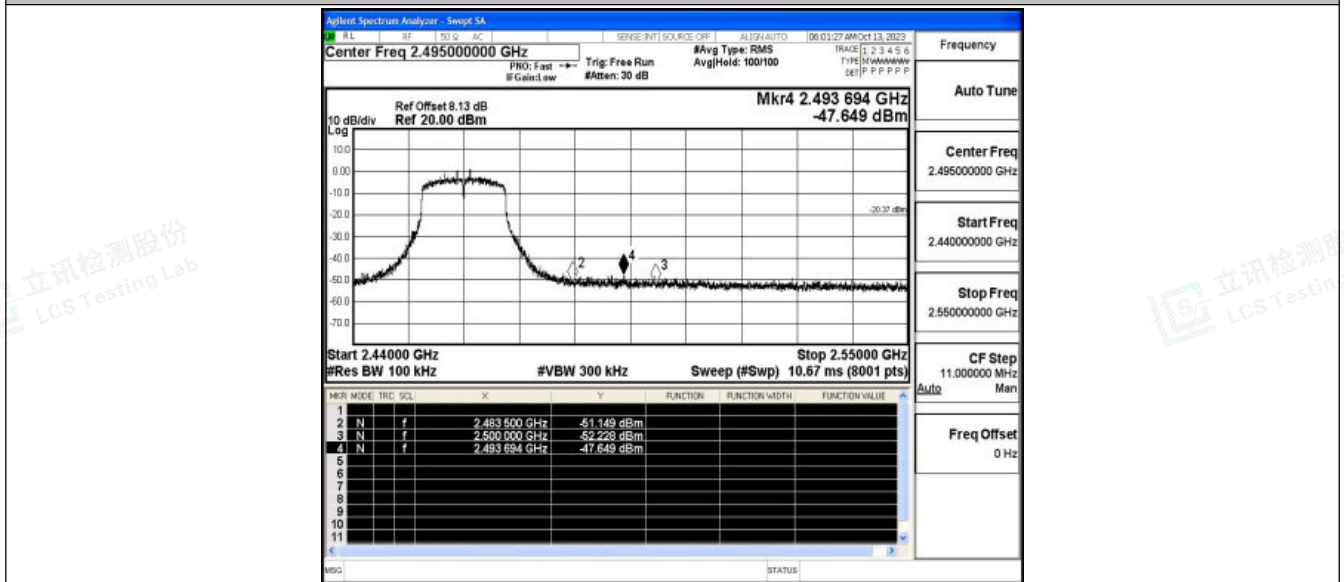


11G_Ant1_Low_2412





11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

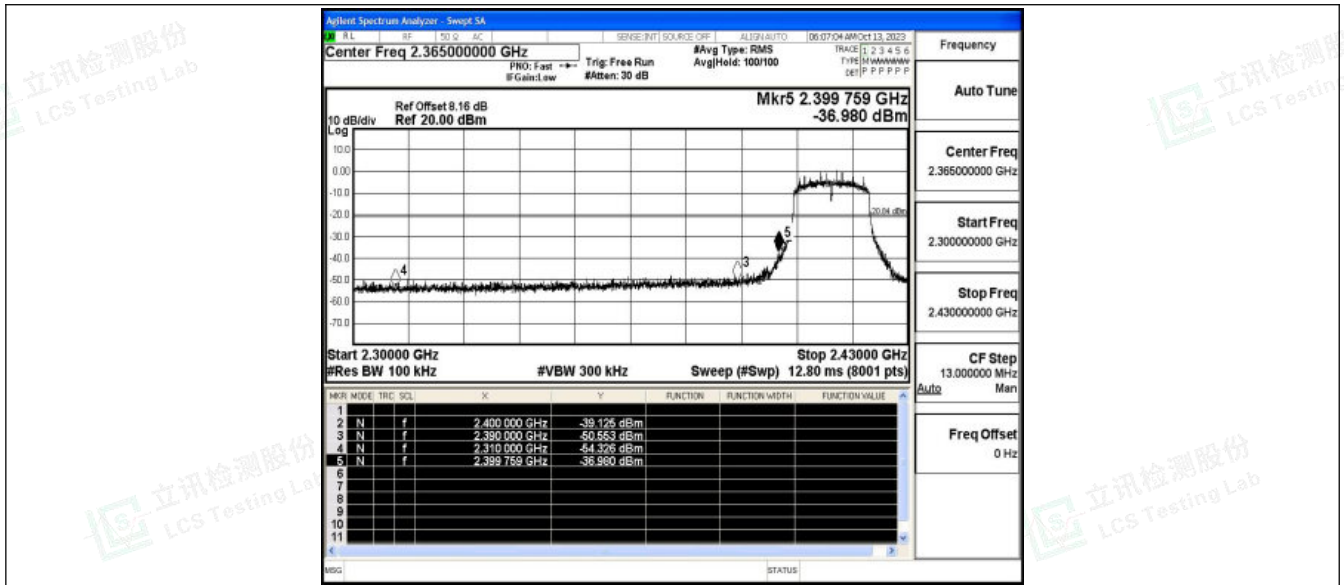


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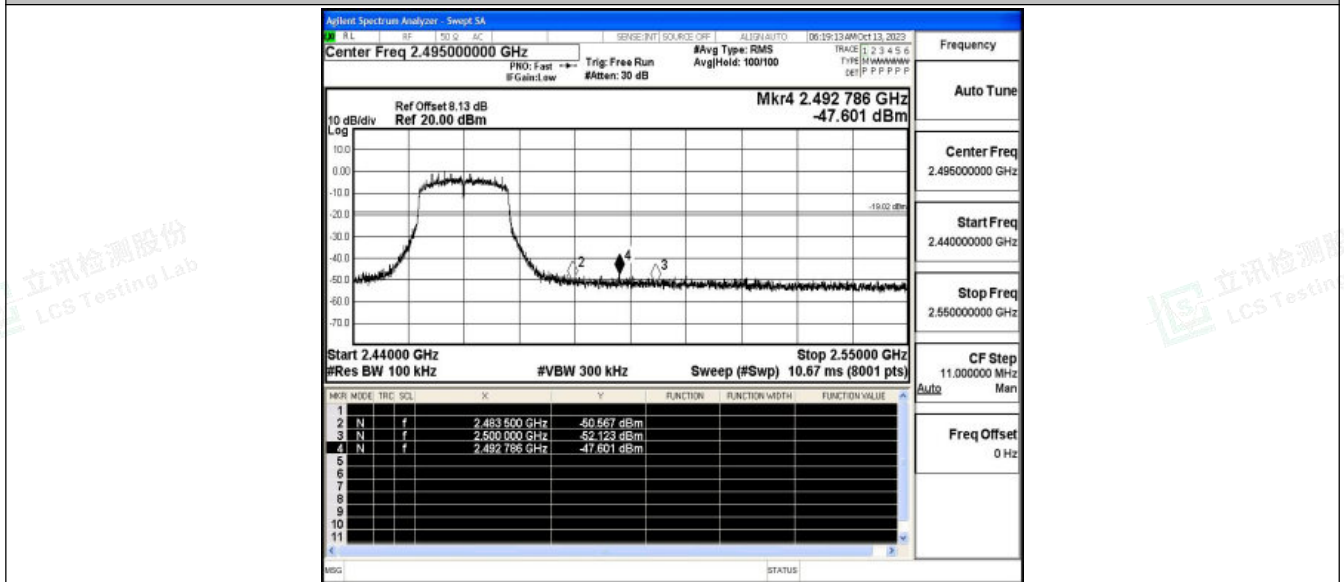
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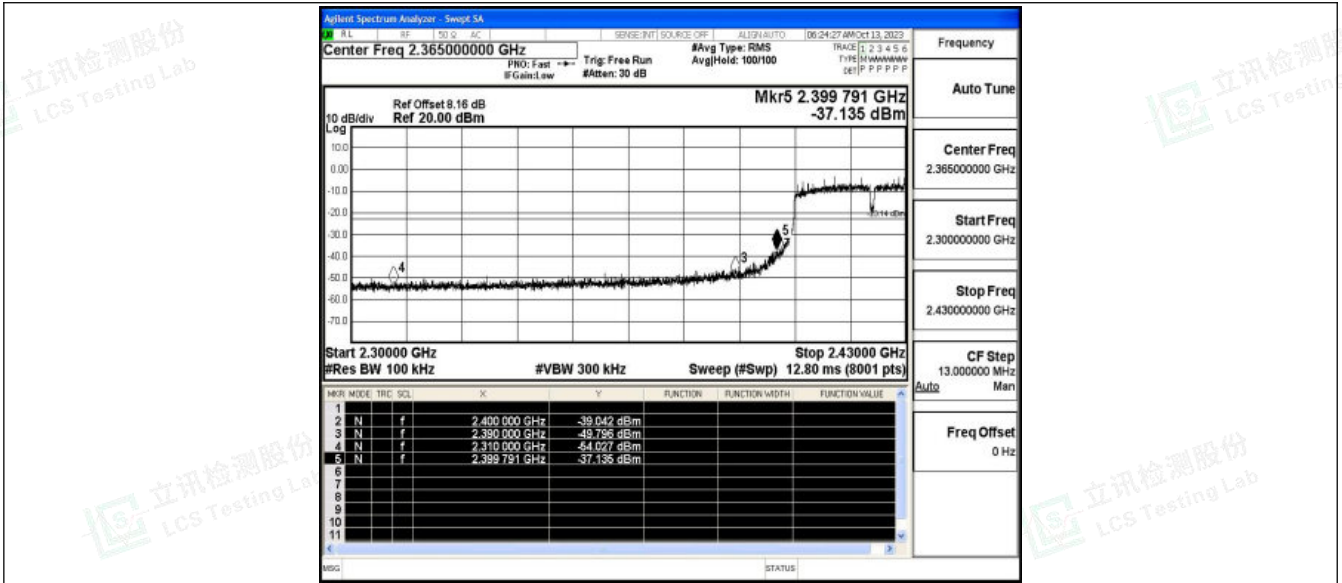


11N20SISO_Ant1_High_2462

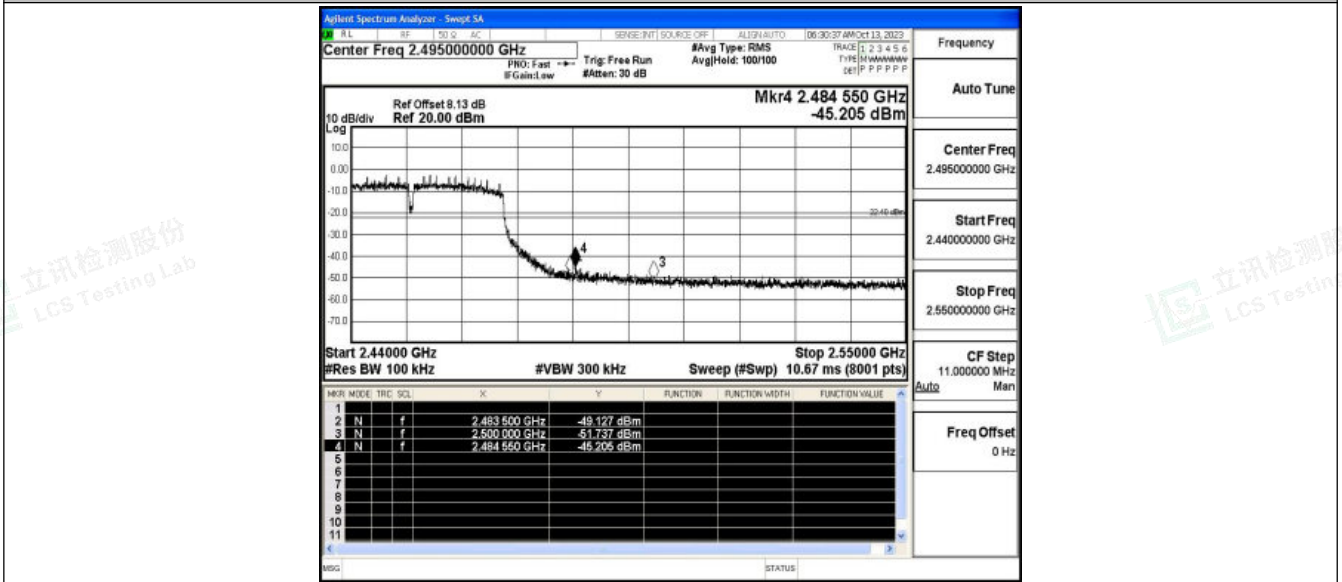


11N40SISO_Ant1_Low_2422





11N40SISO_Ant1_High_2452





C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	4.10	-61.41	≤-15.9	PASS
			1000~26500	4.10	-47.42	≤-15.9	PASS
		2437	30~1000	3.53	-61.84	≤-16.47	PASS
			1000~26500	3.53	-49.08	≤-16.47	PASS
		2462	30~1000	3.93	-61.4	≤-16.07	PASS
			1000~26500	3.93	-48.85	≤-16.07	PASS
11G	Ant1	2412	30~1000	-0.31	-61.46	≤-20.31	PASS
			1000~26500	-0.31	-48.96	≤-20.31	PASS
		2437	30~1000	-1.67	-61.44	≤-21.67	PASS
			1000~26500	-1.67	-48.76	≤-21.67	PASS
		2462	30~1000	-0.37	-61.75	≤-20.37	PASS
			1000~26500	-0.37	-49.75	≤-20.37	PASS
11N20SISO	Ant1	2412	30~1000	-0.84	-61.45	≤-20.84	PASS
			1000~26500	-0.84	-49.25	≤-20.84	PASS
		2437	30~1000	1.30	-60.68	≤-18.7	PASS
			1000~26500	1.30	-48.76	≤-18.7	PASS
		2462	30~1000	0.98	-61.8	≤-19.02	PASS
			1000~26500	0.98	-49.12	≤-19.02	PASS
11N40SISO	Ant1	2422	30~1000	-3.14	-60.81	≤-23.14	PASS
			1000~26500	-3.14	-48.45	≤-23.14	PASS
		2437	30~1000	-2.59	-61.12	≤-22.59	PASS
			1000~26500	-2.59	-49.32	≤-22.59	PASS
		2452	30~1000	-2.40	-61.81	≤-22.4	PASS
			1000~26500	-2.40	-49.08	≤-22.4	PASS



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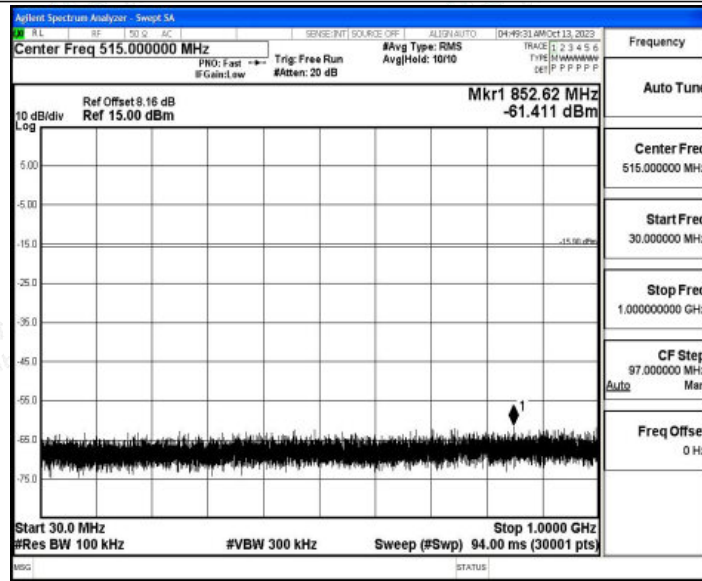
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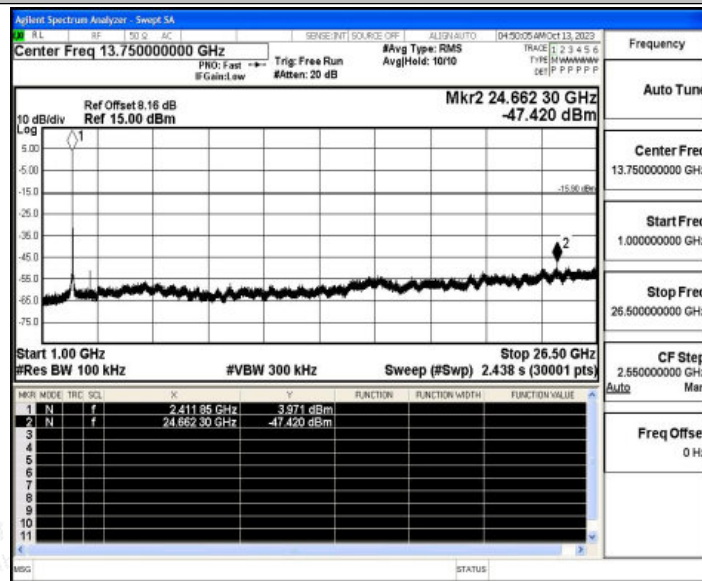


Test Graphs

11B_Ant1_2412_30~1000

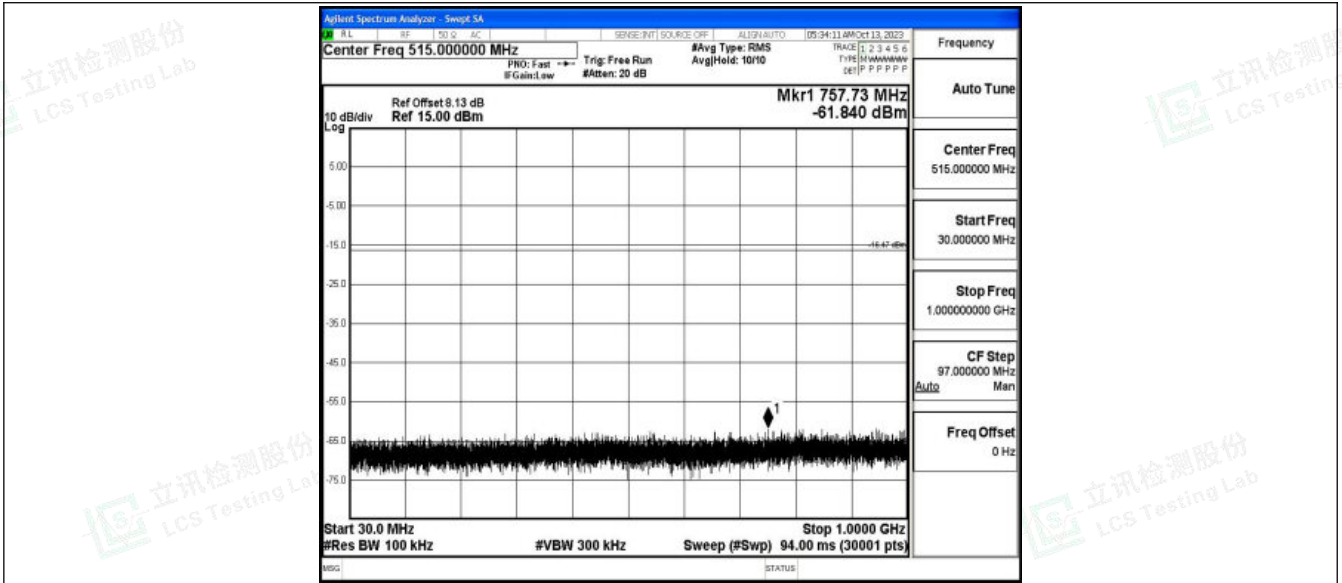


11B_Ant1_2412_1000~26500

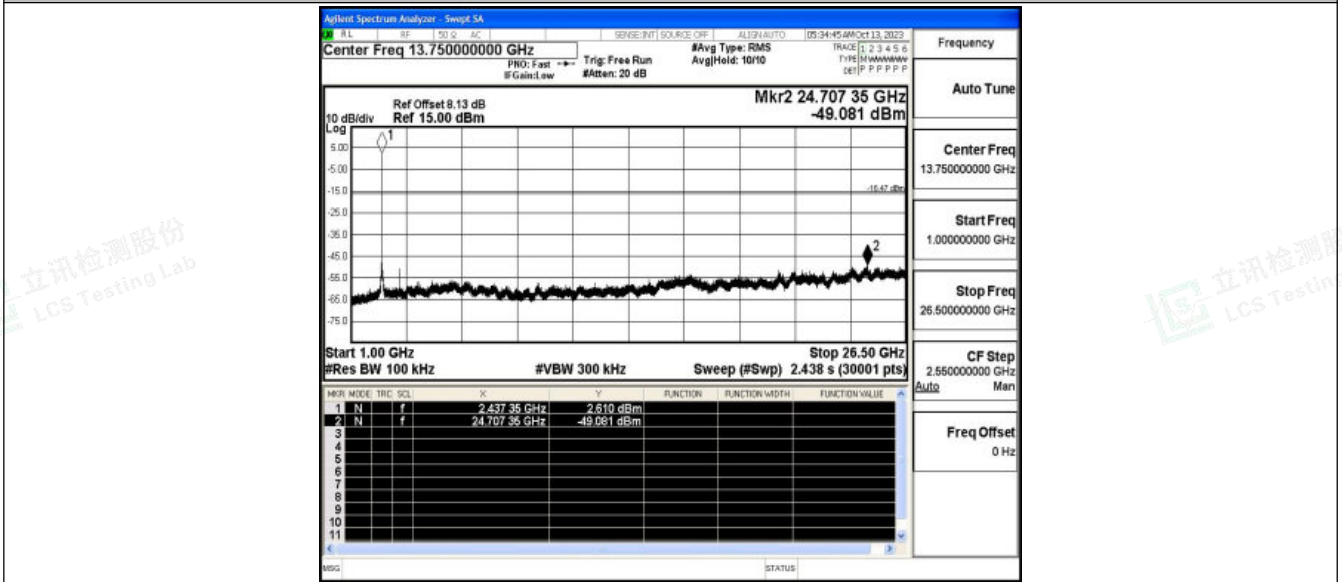


11B_Ant1_2437_30~1000



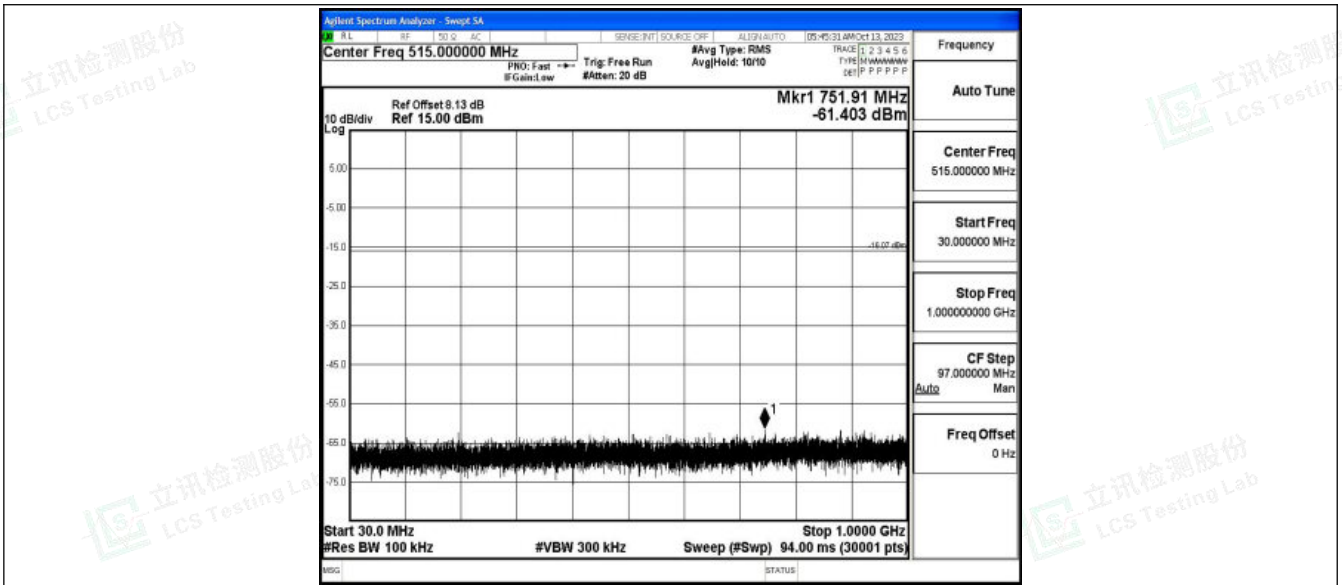


11B_Ant1_2437_1000~26500

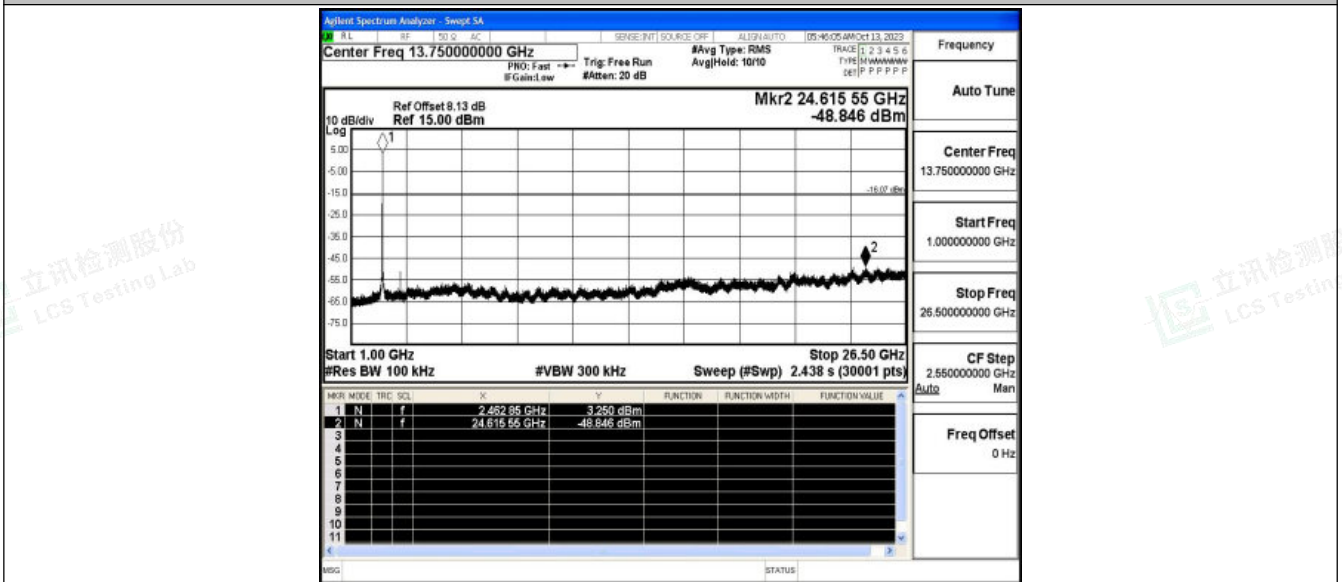


11B_Ant1_2462_30~1000



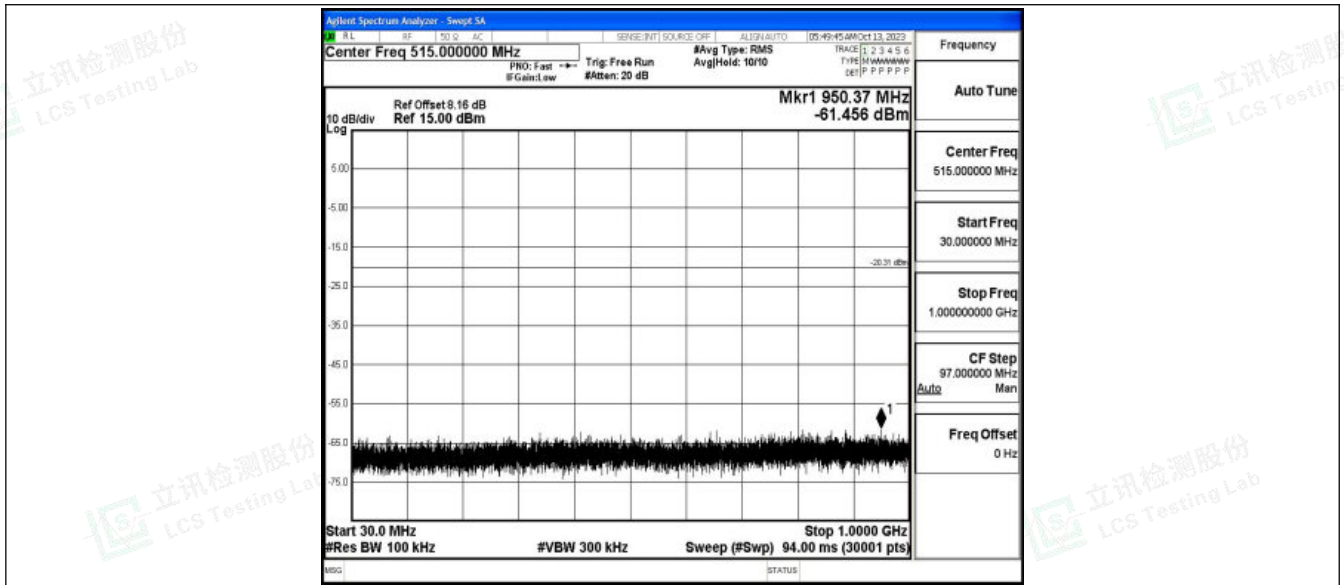


11B_Ant1_2462_1000~26500

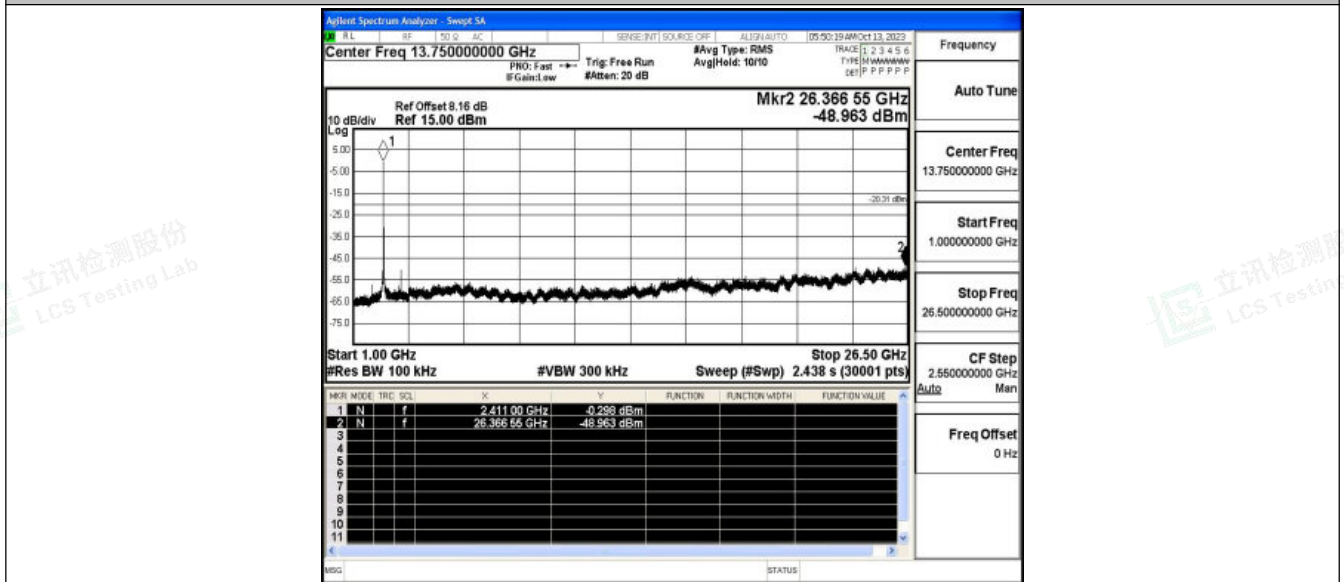


11G_Ant1_2412_30~1000



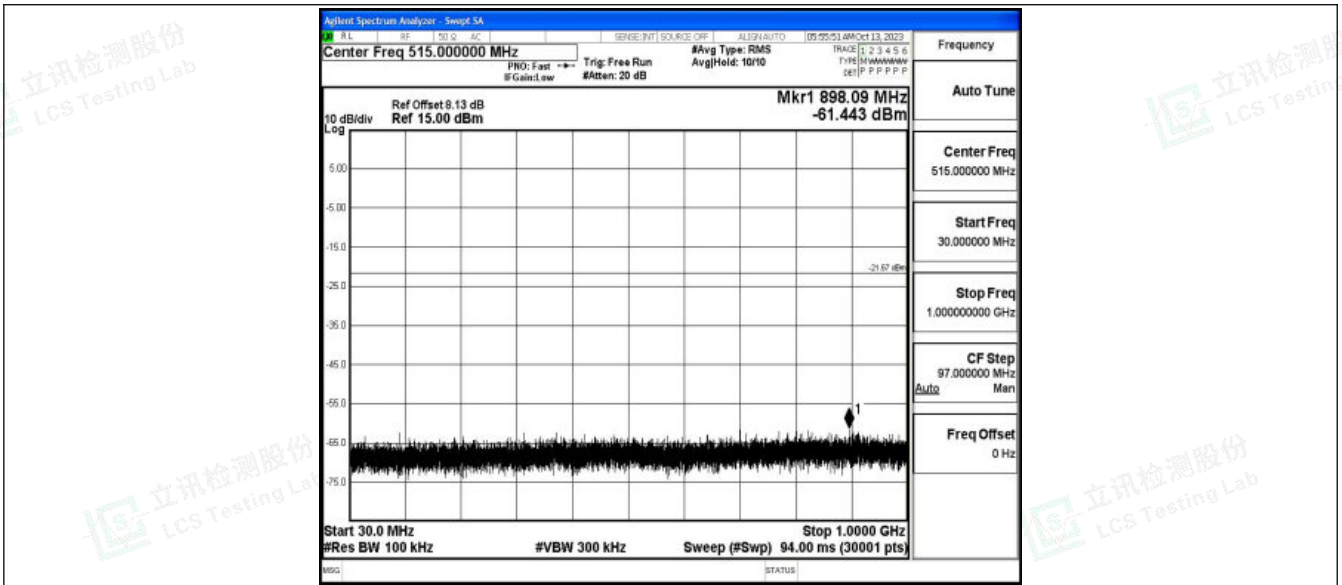


11G_Ant1_2412_1000~26500

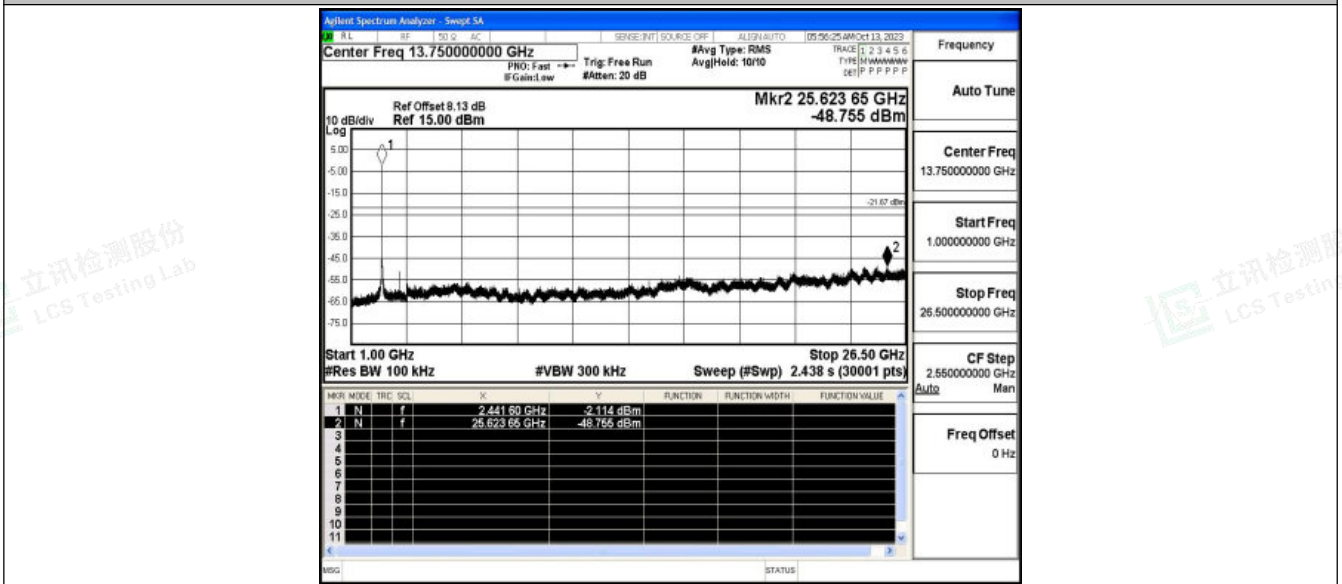


11G_Ant1_2437_30~1000



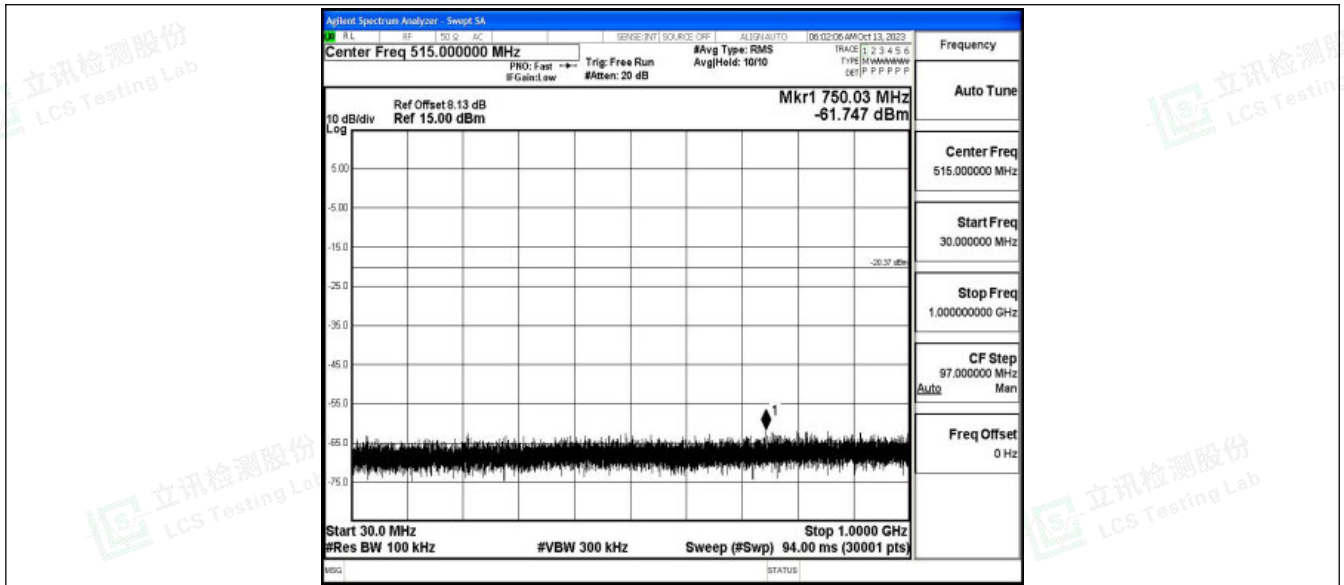


11G_Ant1_2437_1000~26500

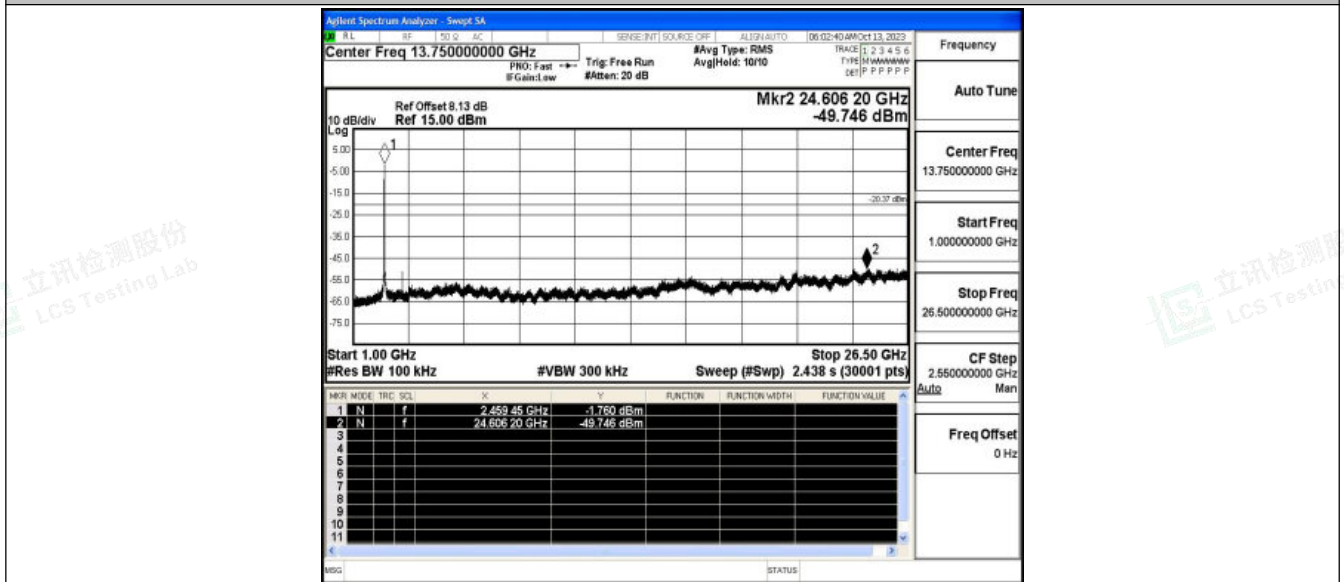


11G_Ant1_2462_30~1000



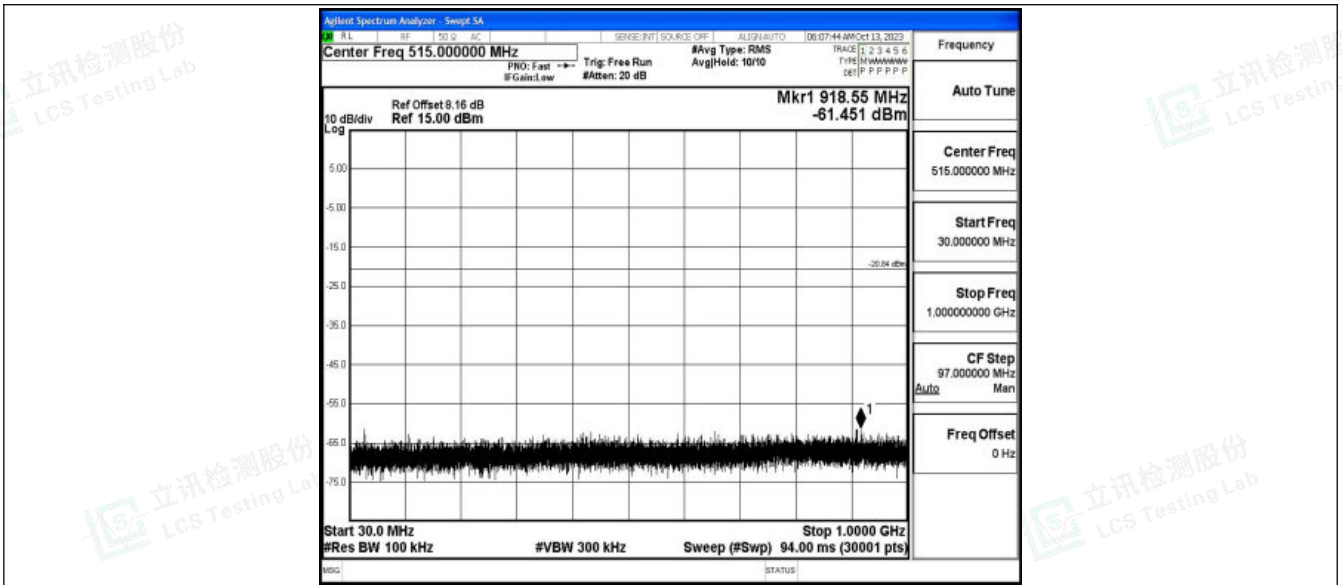


11G_Ant1_2462_1000~26500

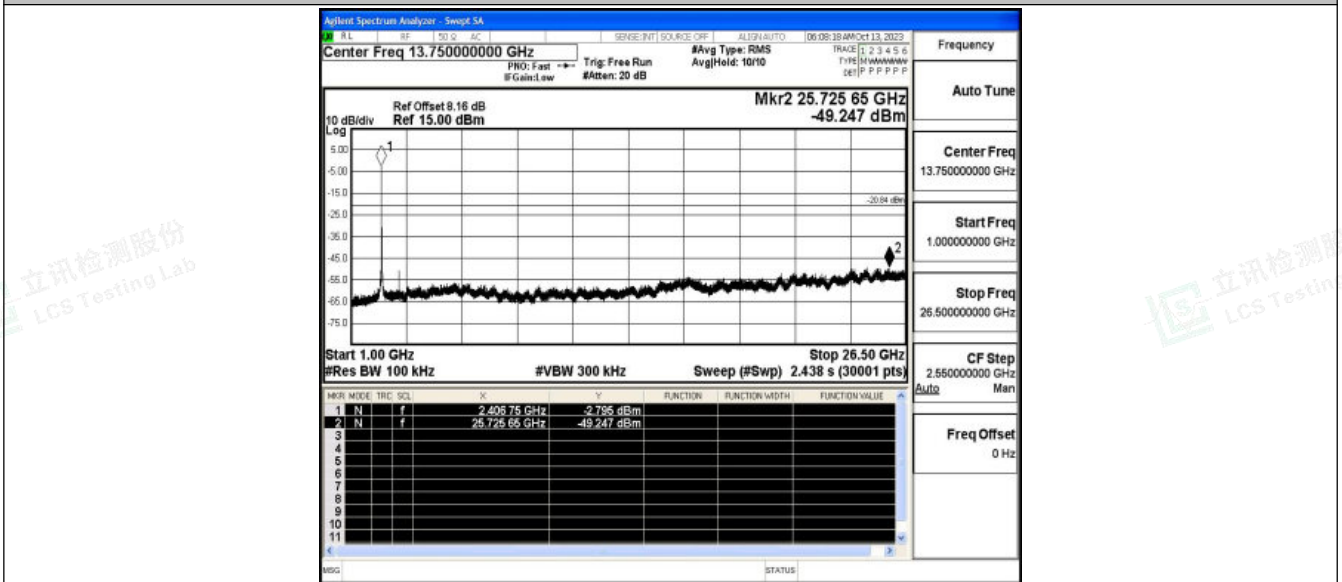


11N20SISO_Ant1_2412_30~1000



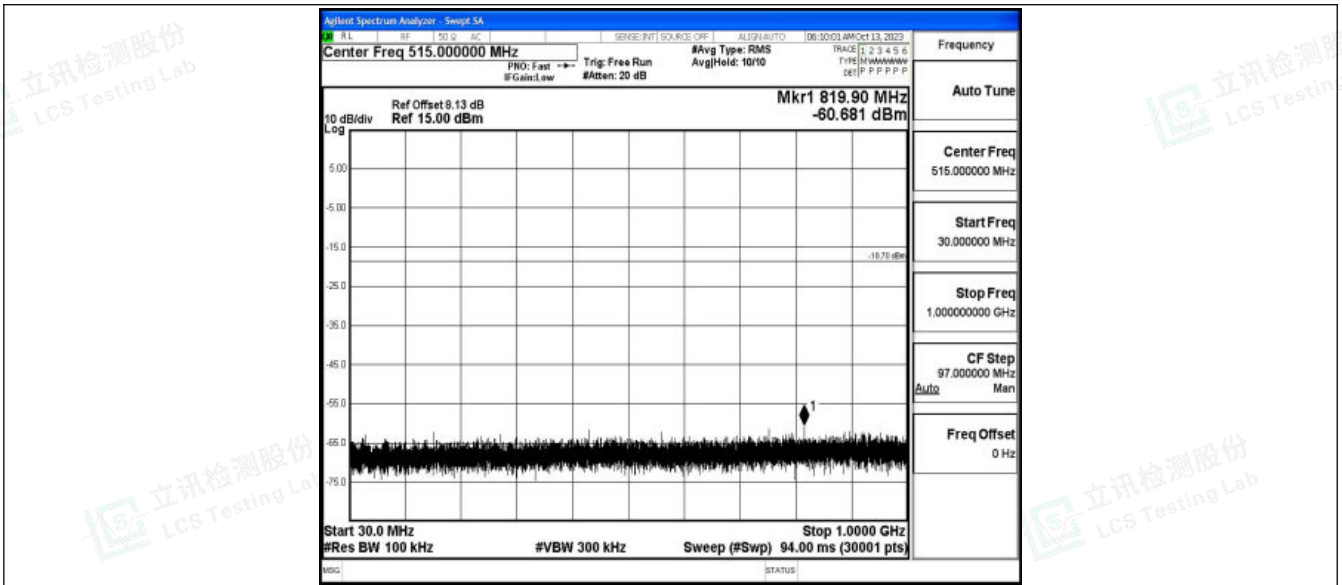


11N20SISO_Ant1_2412_1000~26500

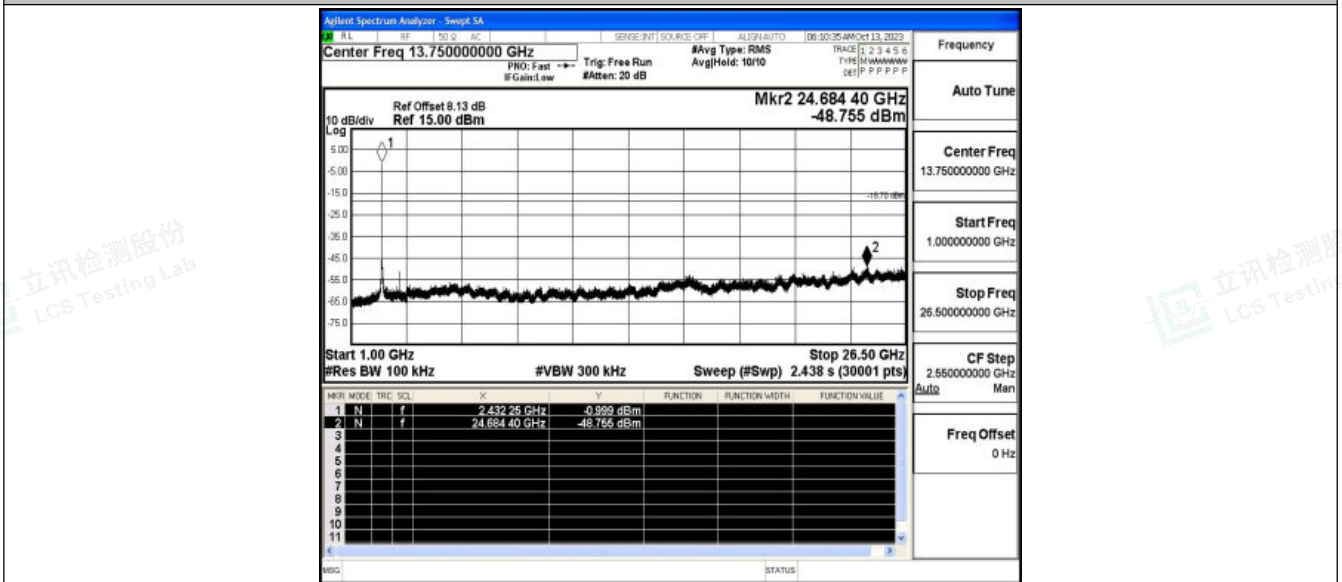


11N20SISO_Ant1_2437_30~1000



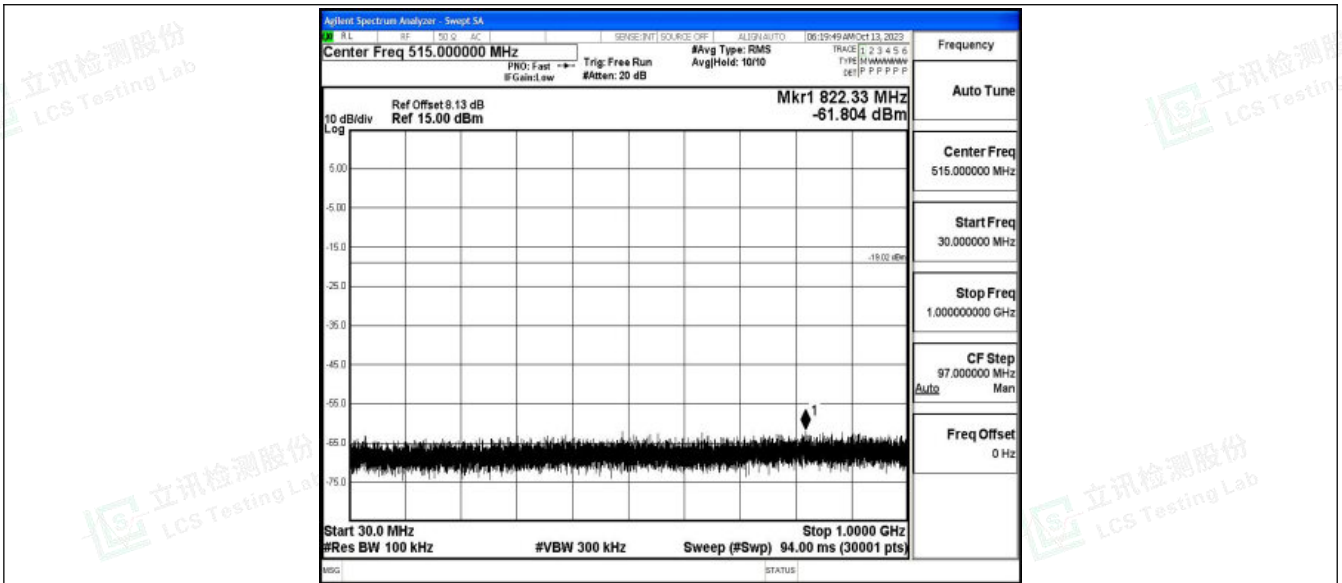


11N20SISO_Ant1_2437_1000~26500

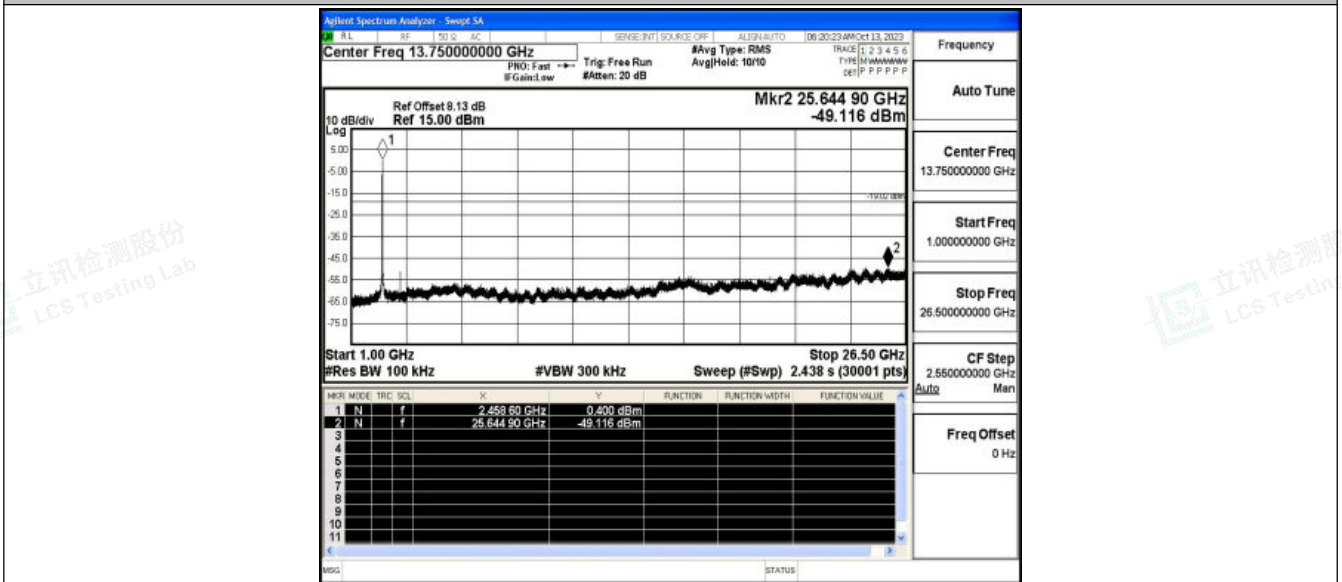


11N20SISO_Ant1_2462_30~1000



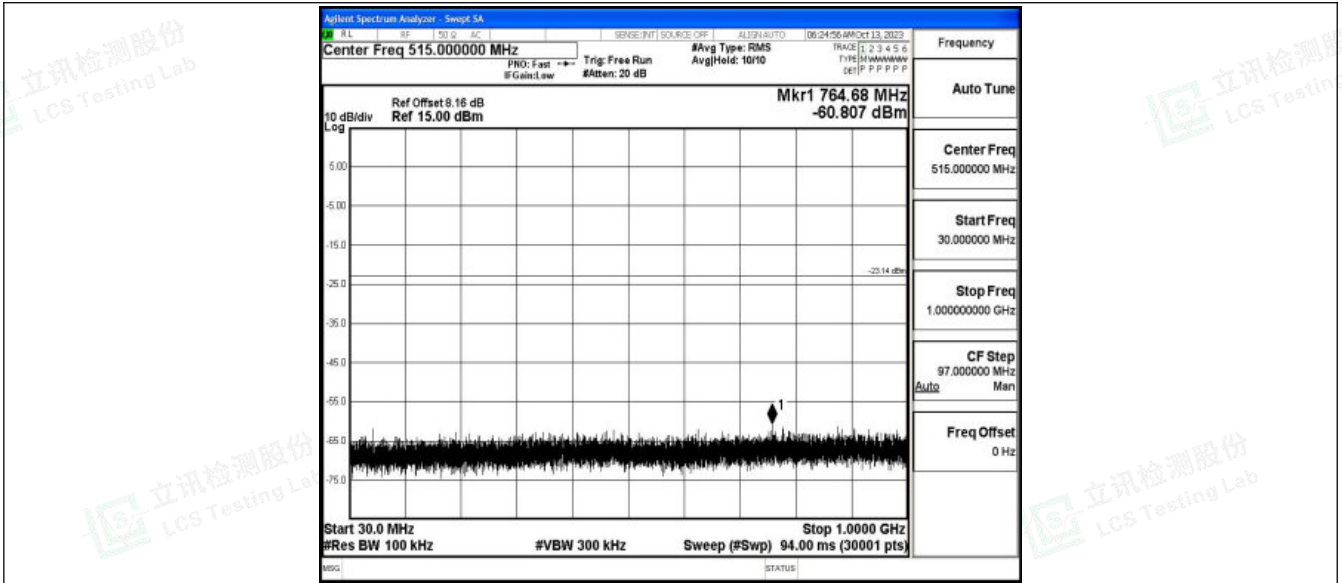


11N20SISO_Ant1_2462_1000~26500

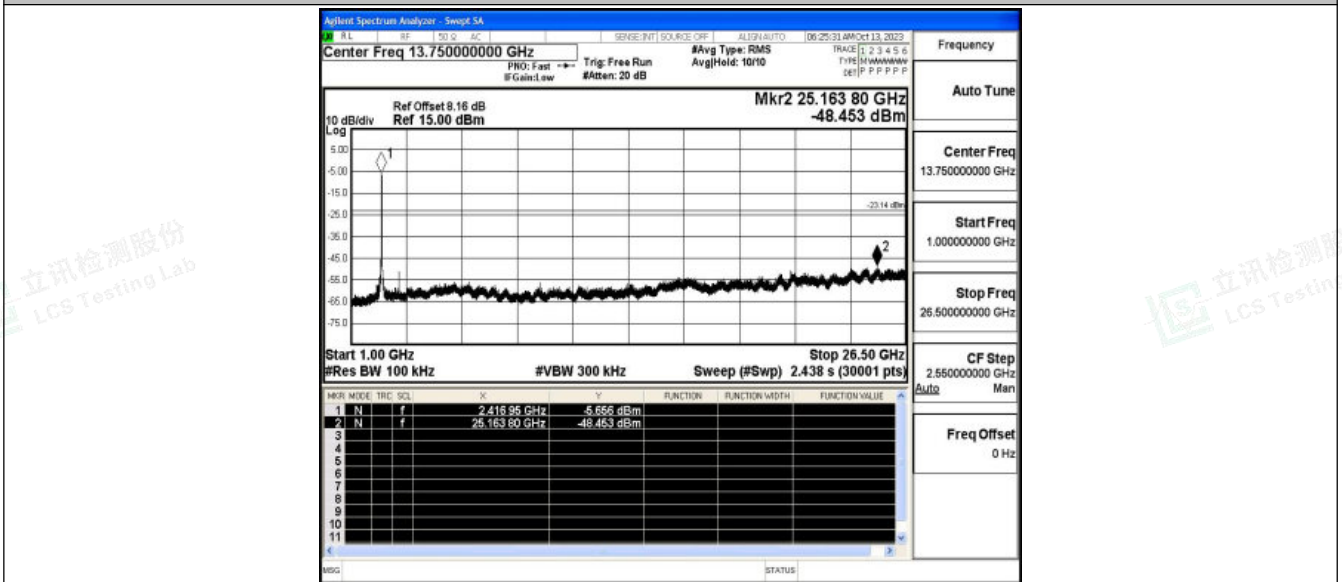


11N40SISO_Ant1_2422_30~1000



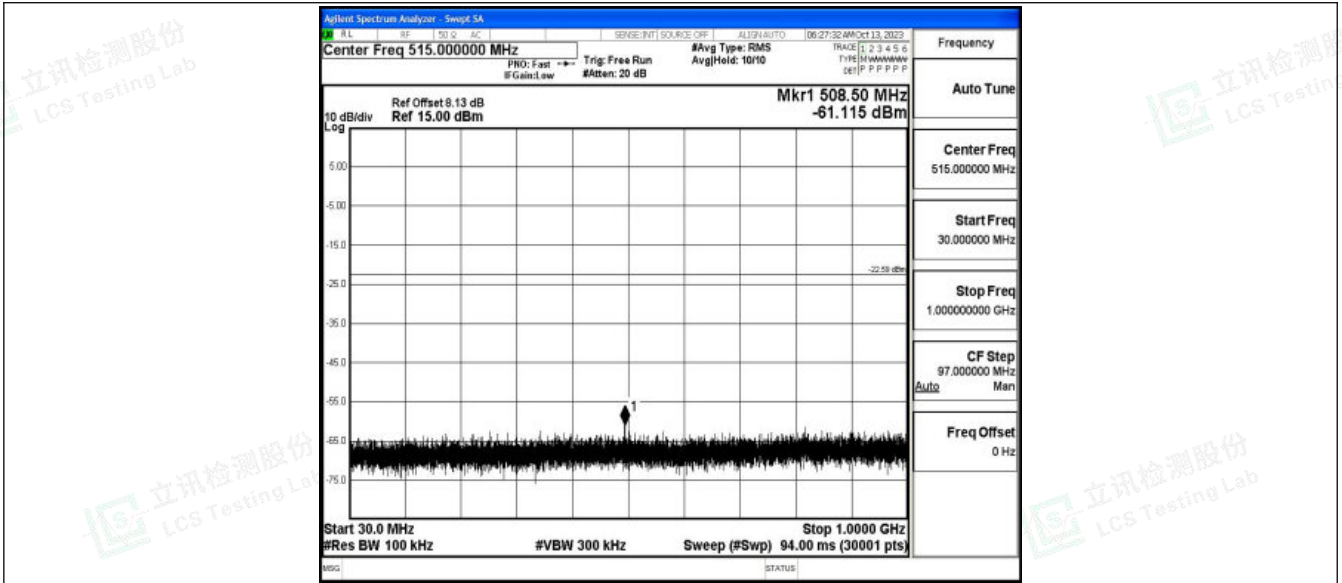


11N40SISO_Ant1_2422_1000~26500

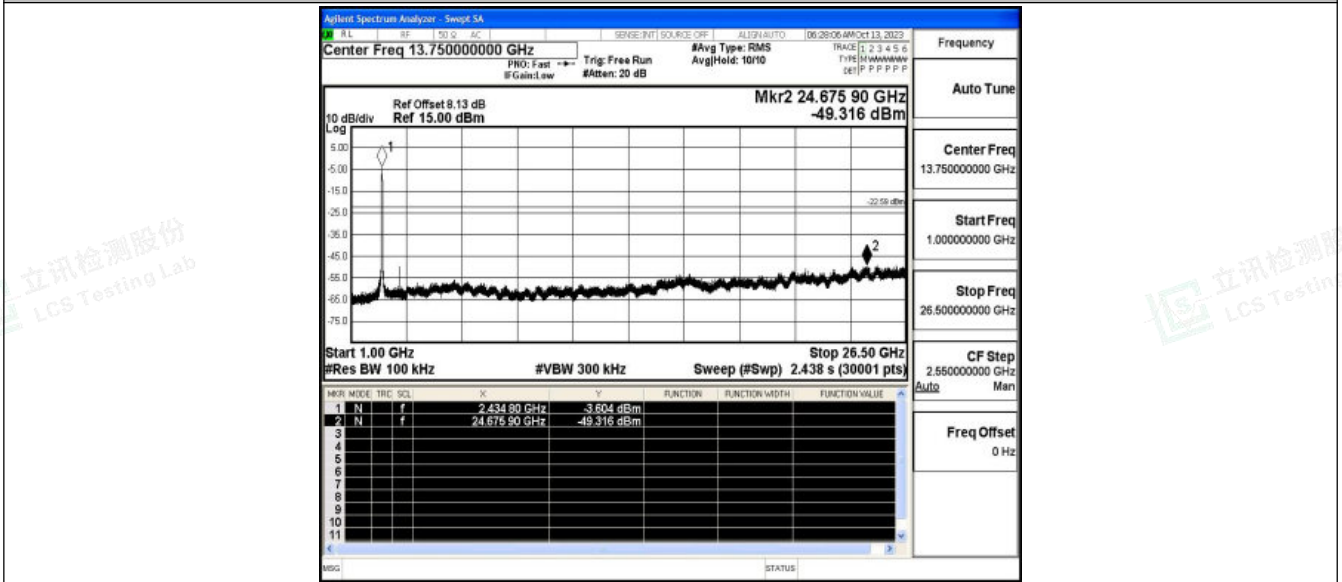


11N40SISO_Ant1_2437_30~1000



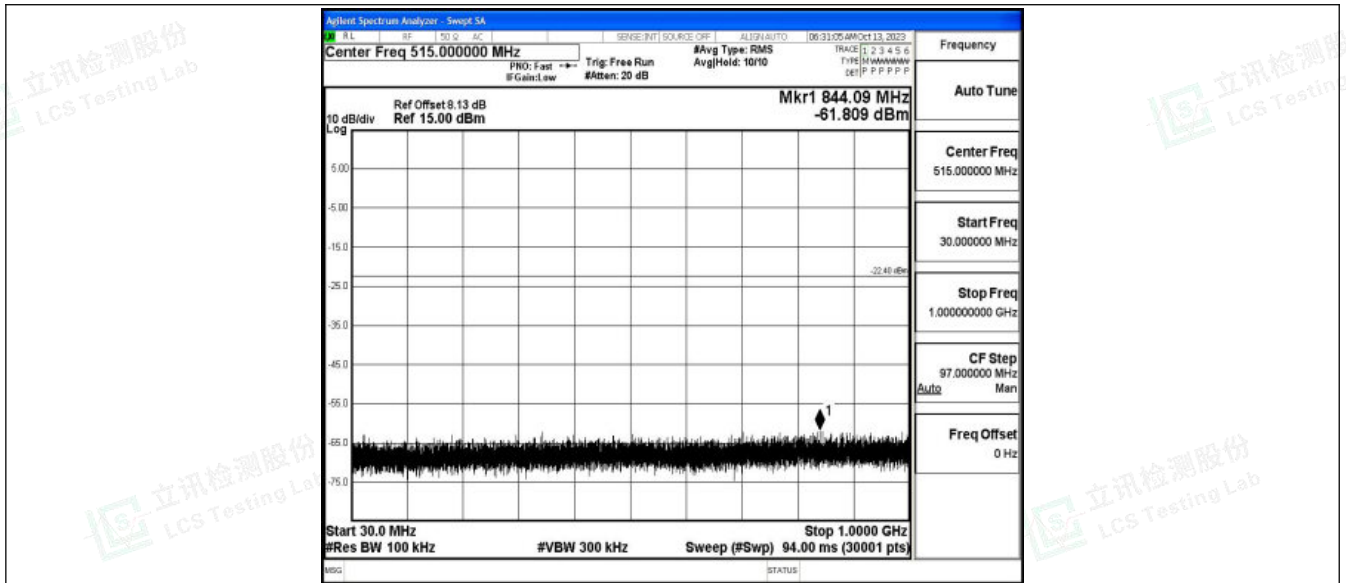


11N40SISO_Ant1_2437_1000~26500

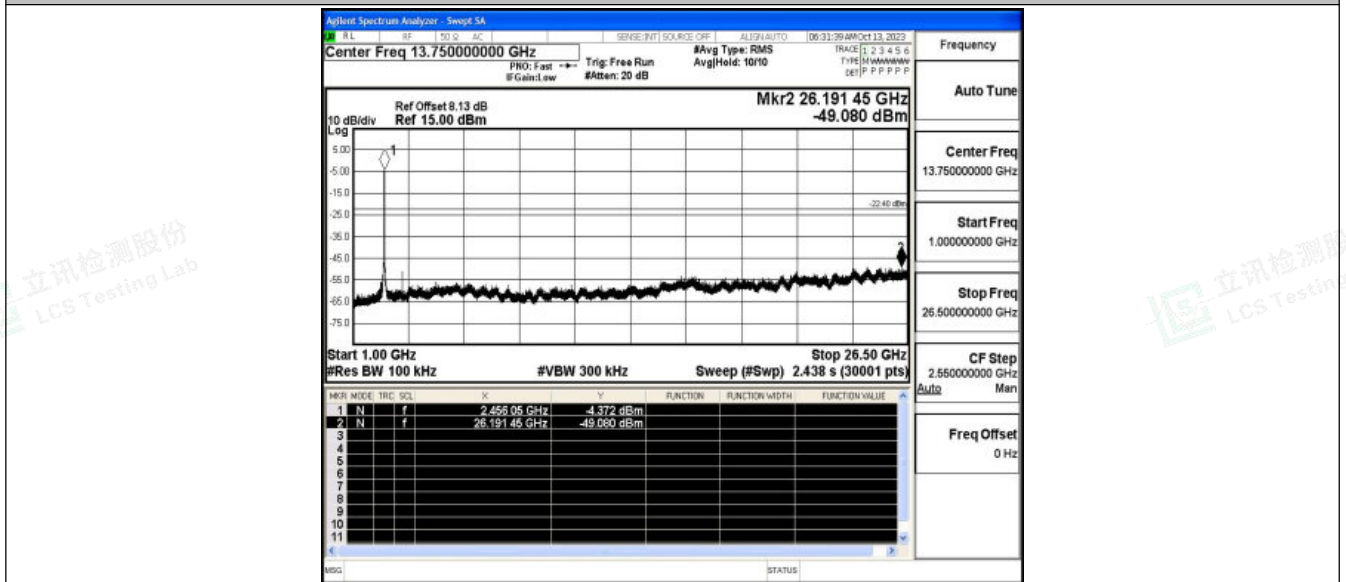


11N40SISO_Ant1_2452_30~1000





11N40SISO_Ant1_2452_1000~26500



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C.6 Duty Cycle

Test Result

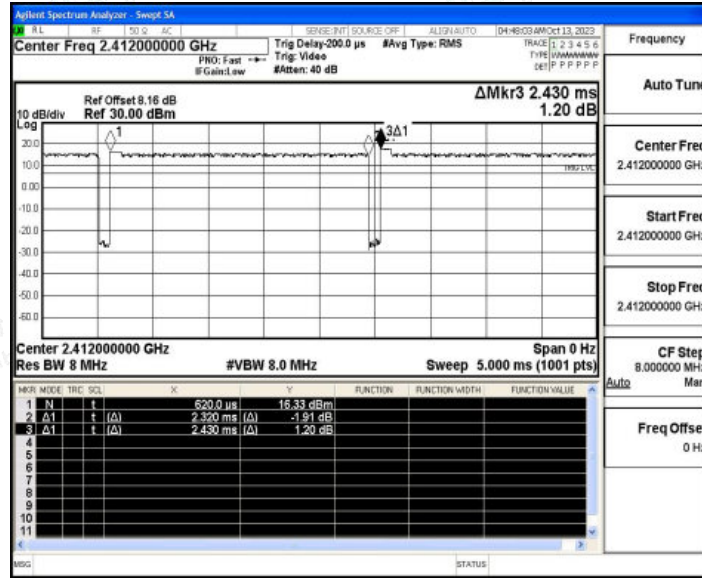
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor	Verdict
11B	Ant1	2412	2.32	2.43	95.47	0.20	---
		2437	2.32	2.43	95.47	0.20	---
		2462	2.32	2.43	95.47	0.20	---
11G	Ant1	2412	2.07	2.18	94.95	0.23	---
		2437	2.07	2.18	94.95	0.23	---
		2462	2.06	2.18	94.50	0.25	---
11N20SISO	Ant1	2412	1.93	2.04	94.61	0.24	---
		2437	1.93	2.05	94.15	0.26	---
		2462	1.92	2.04	94.12	0.26	---
11N40SISO	Ant1	2422	0.95	1.07	88.79	0.52	---
		2437	0.96	1.07	89.72	0.47	---
		2452	0.95	1.07	88.79	0.52	---



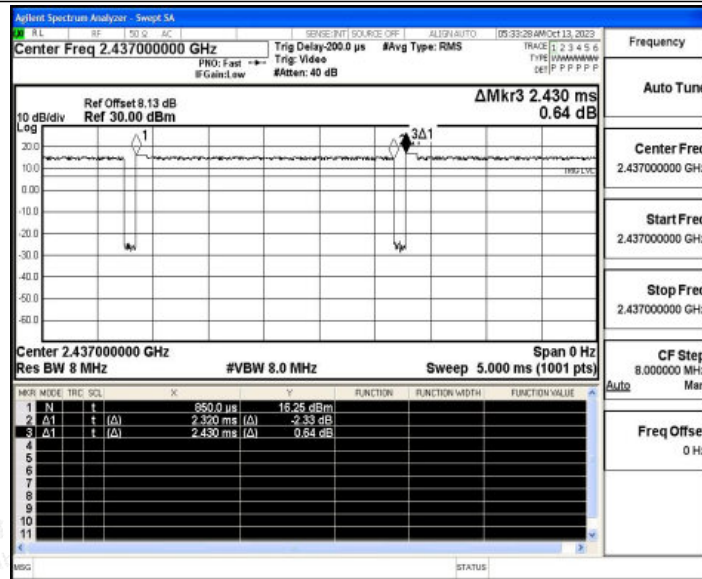


Test Graphs

11B_Ant1_2412

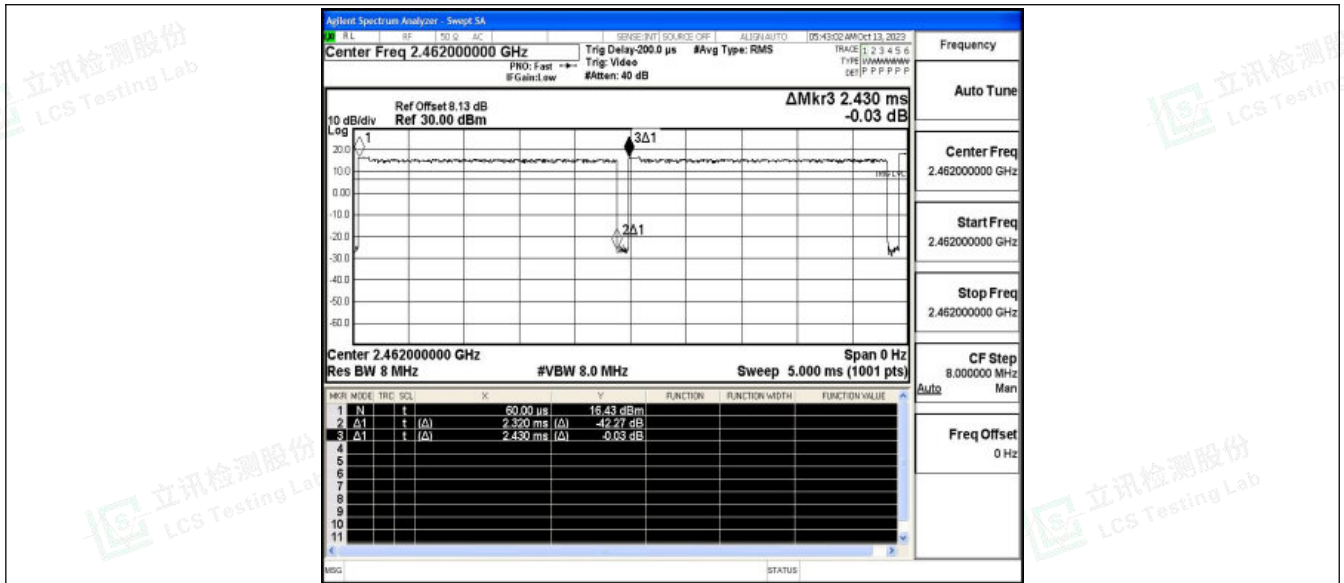


11B_Ant1_2437

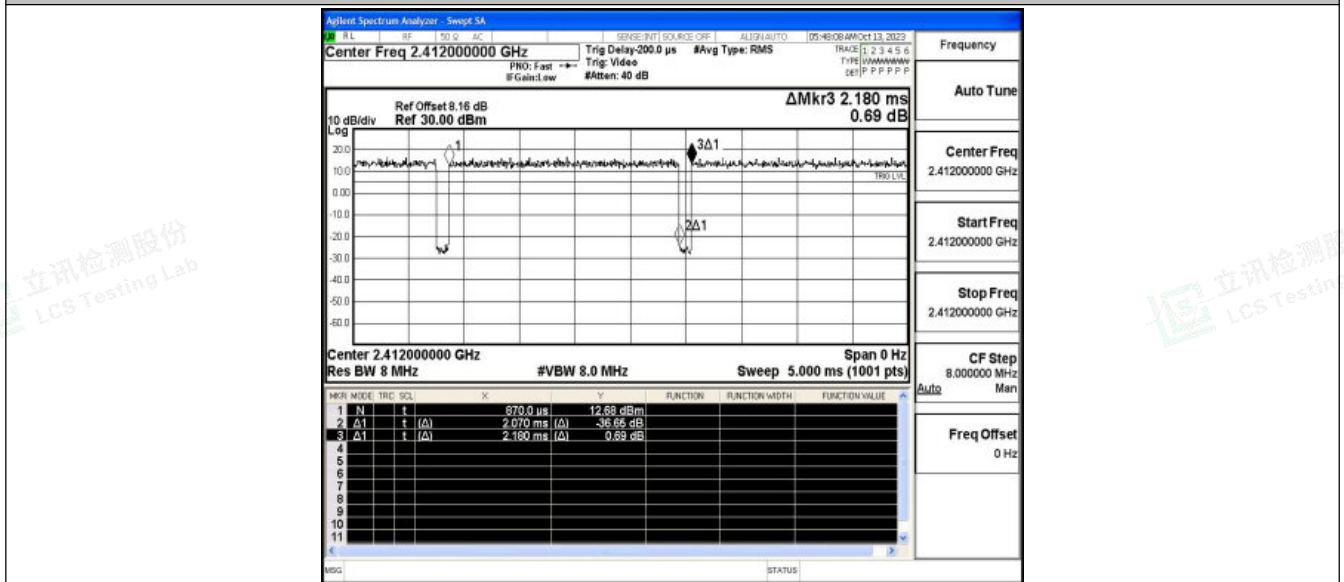


11B_Ant1_2462



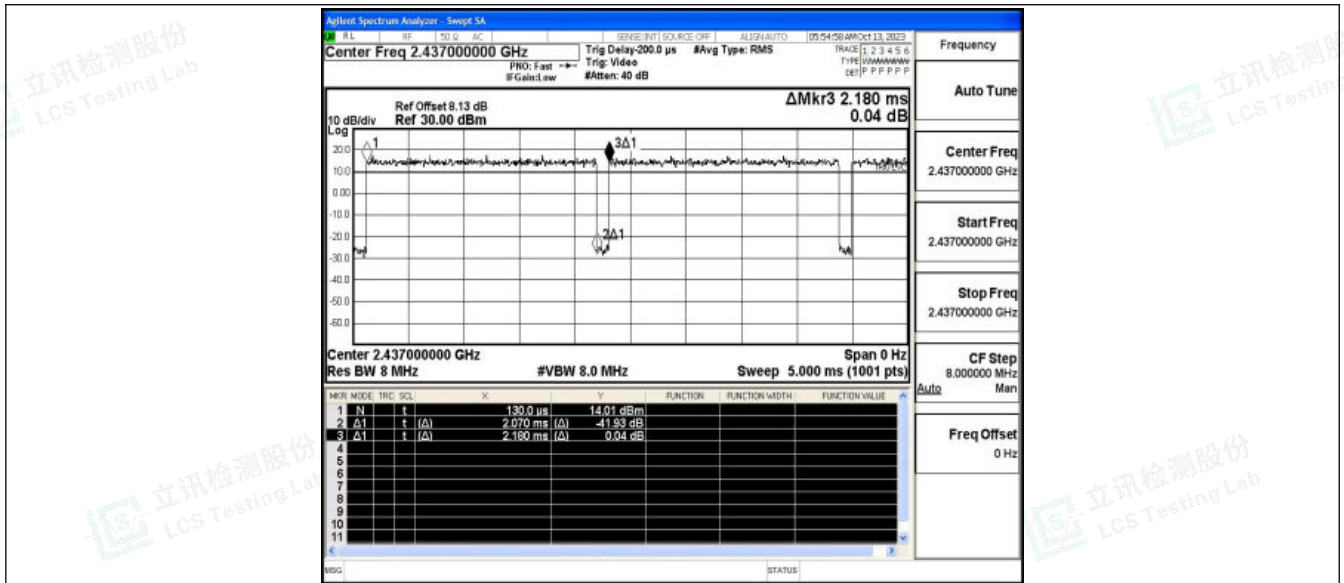


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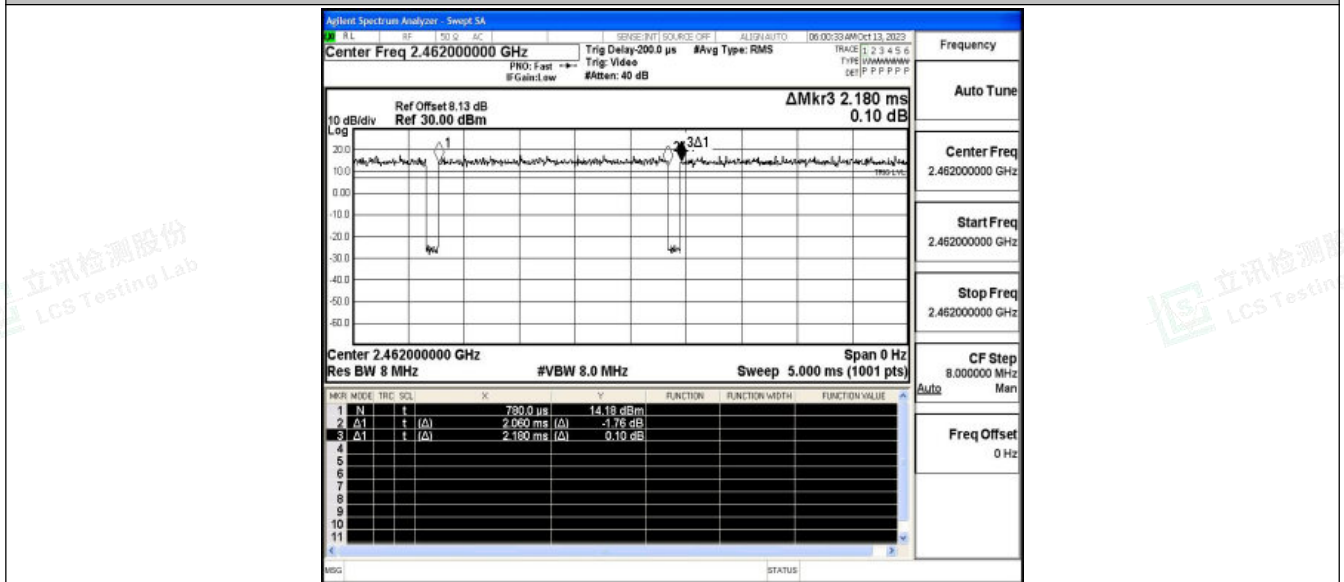


11G_Ant1_2437



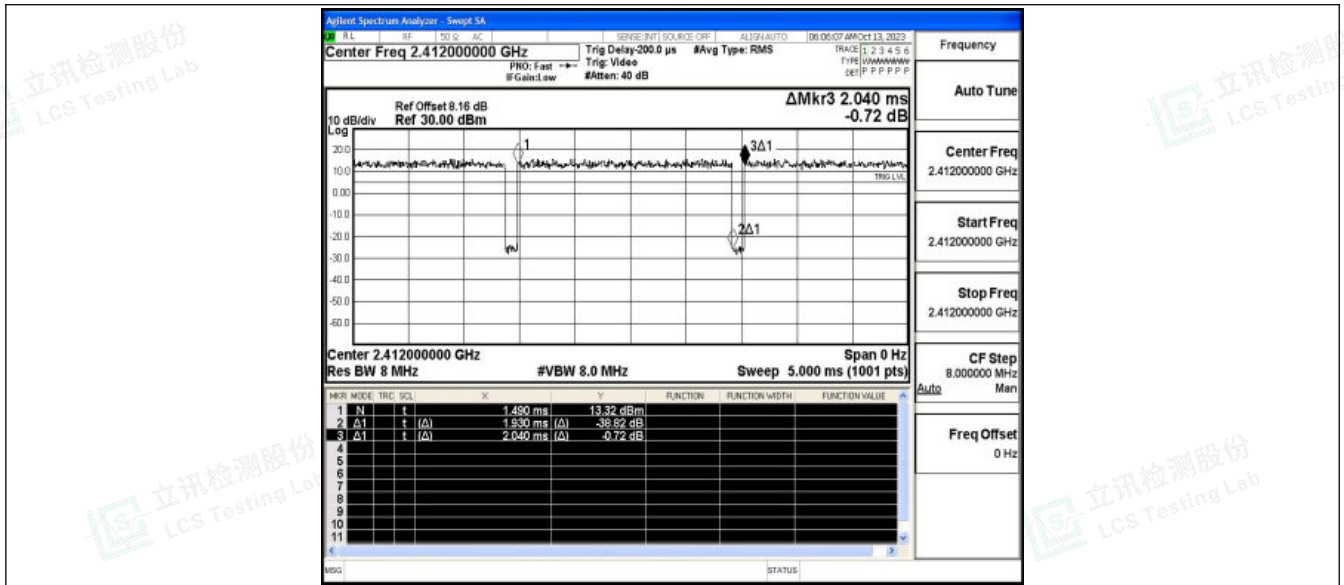


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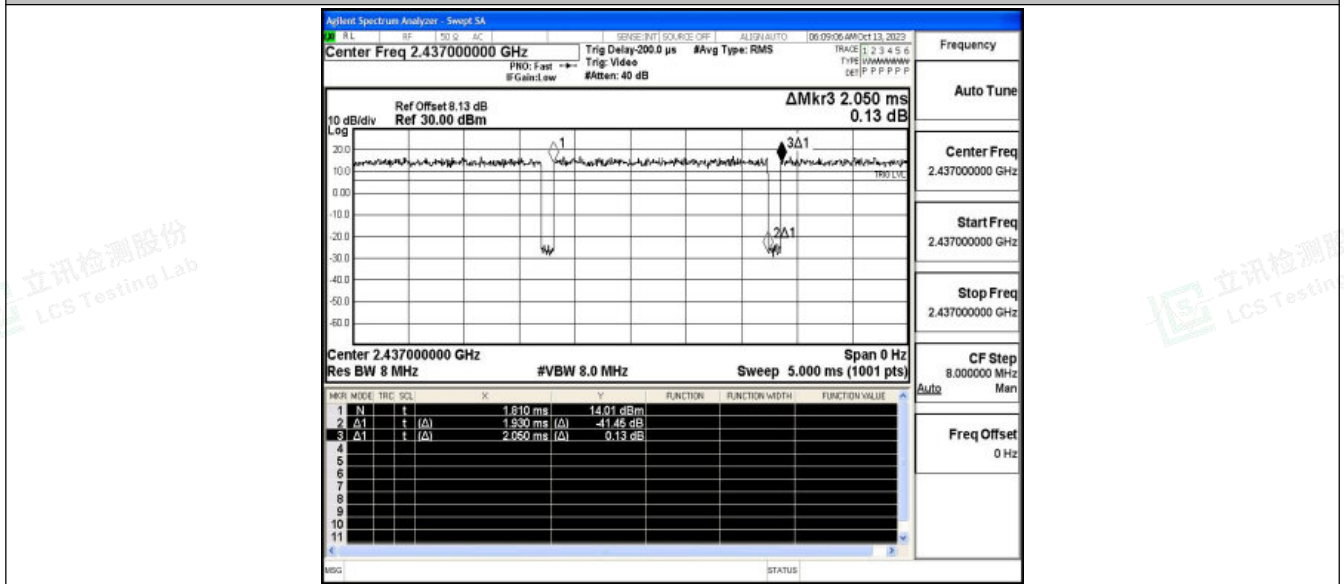


11N20SISO_Ant1_2412



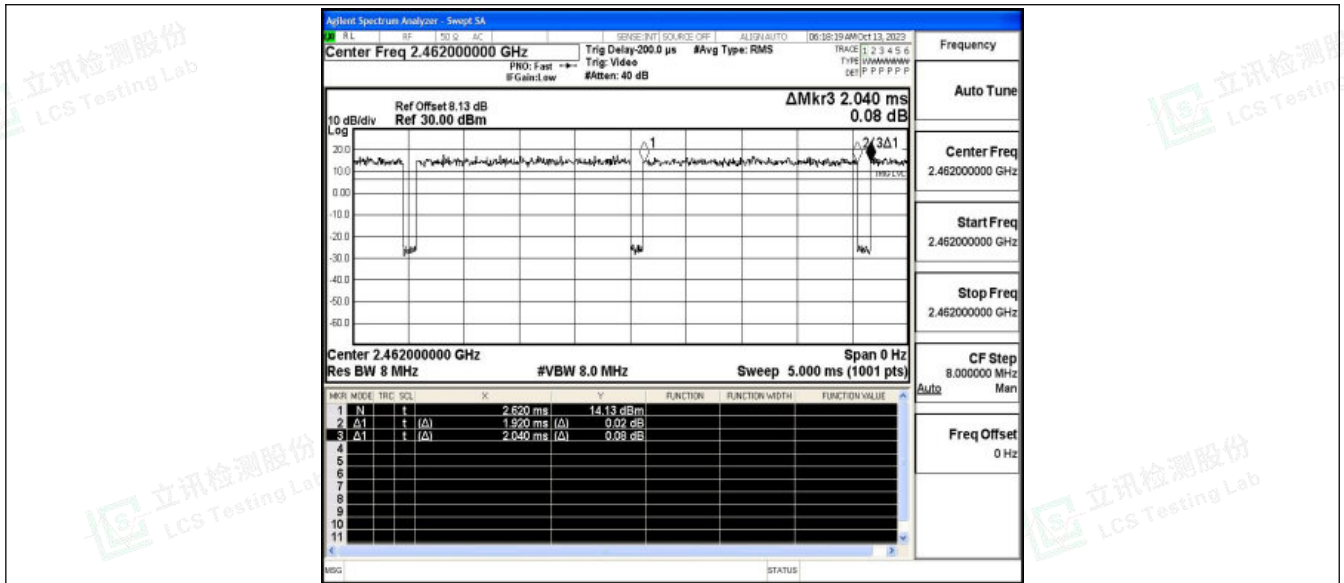


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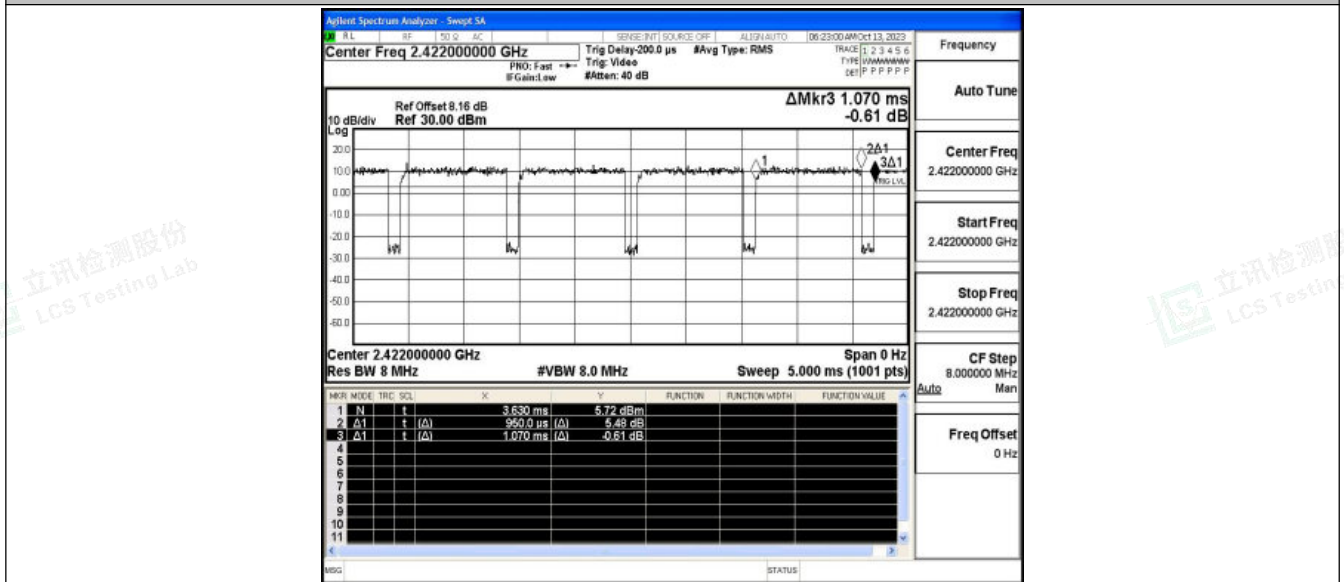


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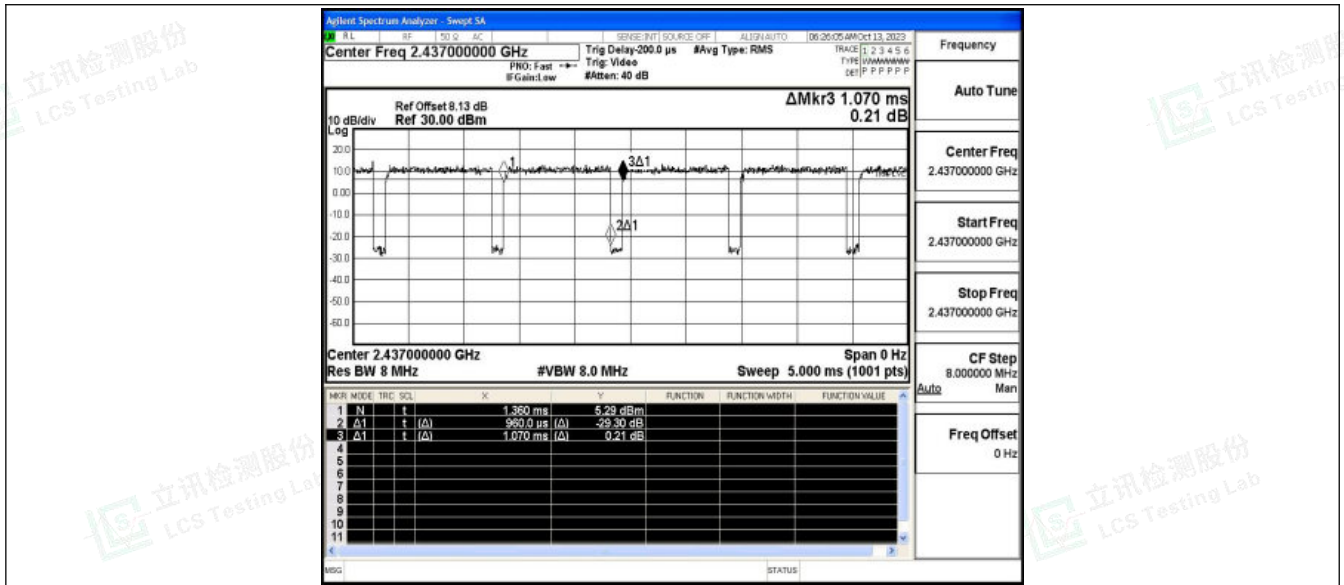


11N40SISO_Ant1_2422

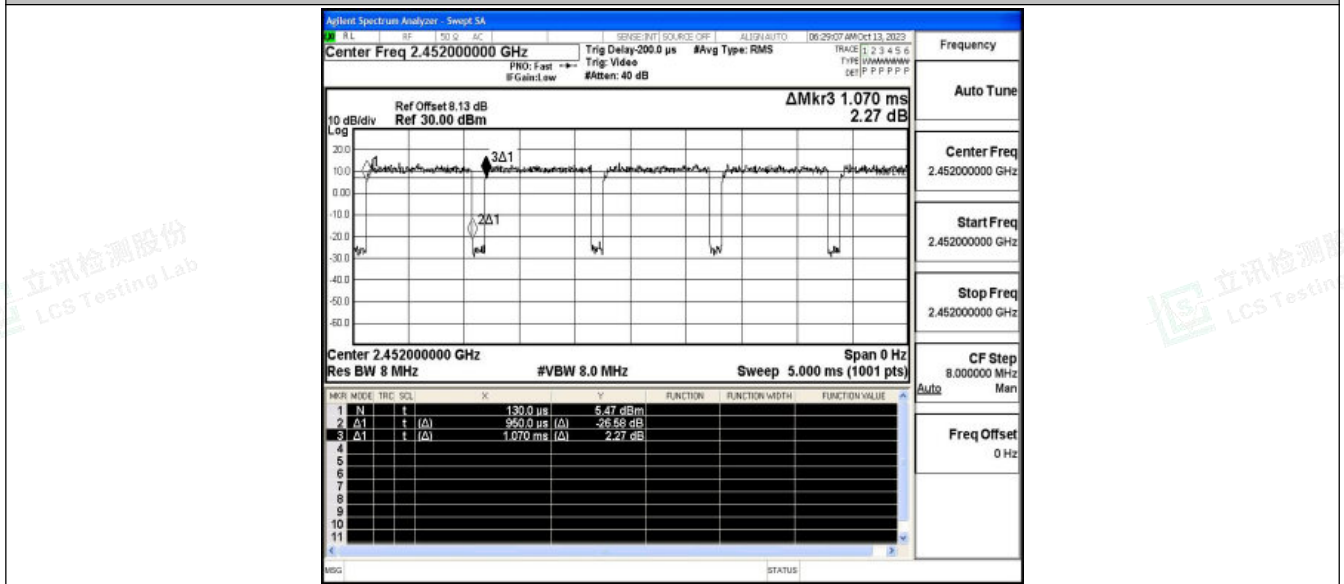


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452





C.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	Channel	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-48.67	≤-41.20	46.53	≤54	PASS
				AV	2381.770	-46.06	≤-41.20	49.14	≤54	PASS
				AV	2390.000	-46.15	≤-41.20	49.05	≤54	PASS
				Peak	2310.000	-42.24	≤-21.20	52.96	≤74	PASS
				Peak	2382.030	-37.28	≤-21.20	57.92	≤74	PASS
				Peak	2390.000	-40.11	≤-21.20	55.09	≤74	PASS
		High	2462	AV	2483.500	-46.05	≤-41.20	49.15	≤54	PASS
				AV	2489.170	-45.71	≤-41.20	49.49	≤54	PASS
				AV	2500.000	-46.28	≤-41.20	48.92	≤54	PASS
				Peak	2483.500	-36.46	≤-21.20	58.74	≤74	PASS
				Peak	2491.480	-37.09	≤-21.20	58.11	≤74	PASS
				Peak	2500.000	-41.61	≤-21.20	53.59	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-48.61	≤-41.20	46.59	≤54	PASS
				AV	2389.700	-45.91	≤-41.20	49.29	≤54	PASS
				AV	2390.000	-45.99	≤-41.20	49.21	≤54	PASS
				Peak	2310.000	-42.05	≤-21.20	53.15	≤74	PASS
				Peak	2379.690	-37.44	≤-21.20	57.76	≤74	PASS
				Peak	2390.000	-39.06	≤-21.20	56.14	≤74	PASS
		High	2462	AV	2483.500	-45.56	≤-41.20	49.64	≤54	PASS
				AV	2483.560	-45.57	≤-41.20	49.63	≤54	PASS
				AV	2500.000	-46.47	≤-41.20	48.73	≤54	PASS
				Peak	2483.500	-40.28	≤-21.20	54.92	≤74	PASS
				Peak	2488.730	-36.51	≤-21.20	58.69	≤74	PASS
				Peak	2500.000	-40.36	≤-21.20	54.84	≤74	PASS
11N20SI SO	Ant1	Low	2412	AV	2310.000	-48.6	≤-41.20	46.60	≤54	PASS
				AV	2389.960	-45.71	≤-41.20	49.49	≤54	PASS
				AV	2390.000	-45.71	≤-41.20	49.49	≤54	PASS
				Peak	2310.000	-43.18	≤-21.20	52.02	≤74	PASS
				Peak	2372.150	-36.67	≤-21.20	58.53	≤74	PASS
				Peak	2390.000	-40.55	≤-21.20	54.65	≤74	PASS
		High	2462	AV	2483.500	-45.22	≤-41.20	49.98	≤54	PASS
				AV	2483.560	-45.31	≤-41.20	49.89	≤54	PASS
				AV	2500.000	-46.35	≤-41.20	48.85	≤54	PASS
				Peak	2483.500	-39.96	≤-21.20	55.24	≤74	PASS
Peak	2488.730	-36.89	≤-21.20	58.31	≤74	PASS				



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11N40SI SO	Ant1	Low	2422	Peak	2500.000	-40.83	≤-21.20	54.37	≤74	PASS
				AV	2310.000	-48.44	≤-41.20	46.76	≤54	PASS
				AV	2388.920	-42.97	≤-41.20	52.23	≤54	PASS
				AV	2390.000	-43.36	≤-41.20	51.84	≤54	PASS
				Peak	2310.000	-42.37	≤-21.20	52.83	≤74	PASS
				Peak	2389.960	-34.56	≤-21.20	60.64	≤74	PASS
		High	2452	Peak	2390.000	-34.56	≤-21.20	60.64	≤74	PASS
				AV	2483.500	-43.43	≤-41.20	51.77	≤54	PASS
				AV	2484.660	-43.28	≤-41.20	51.92	≤54	PASS
				AV	2500.000	-45.8	≤-41.20	49.40	≤54	PASS
				Peak	2483.500	-36.96	≤-21.20	58.24	≤74	PASS
				Peak	2486.750	-35.84	≤-21.20	59.36	≤74	PASS
				Peak	2500.000	-38.88	≤-21.20	56.32	≤74	PASS

Note:

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



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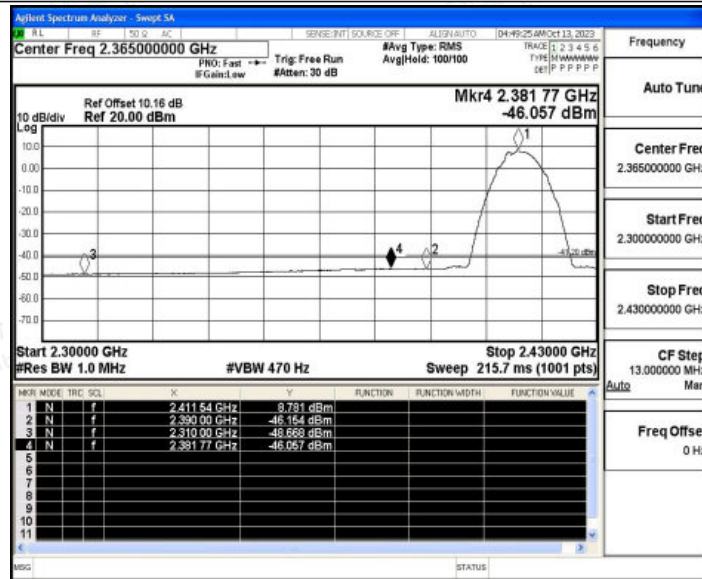
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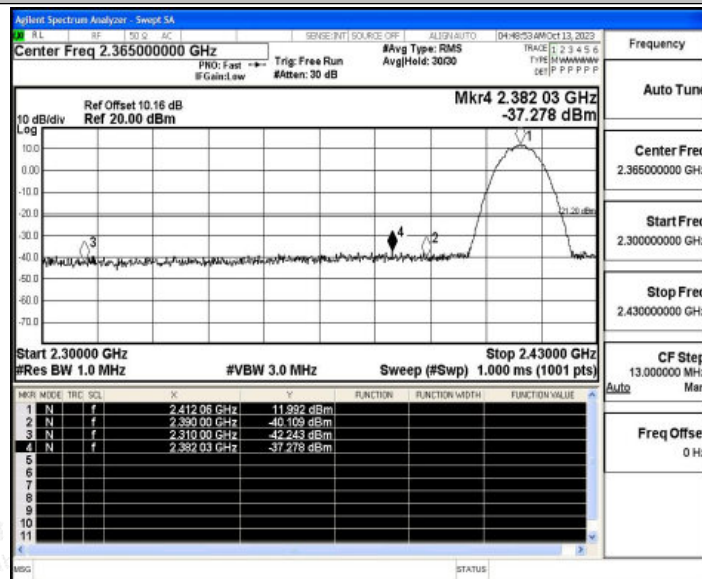


Test Graphs

11B_Ant1_Low_2412_AV



11B_Ant1_Low_2412_Peak



11B_Ant1_High_2462_AV

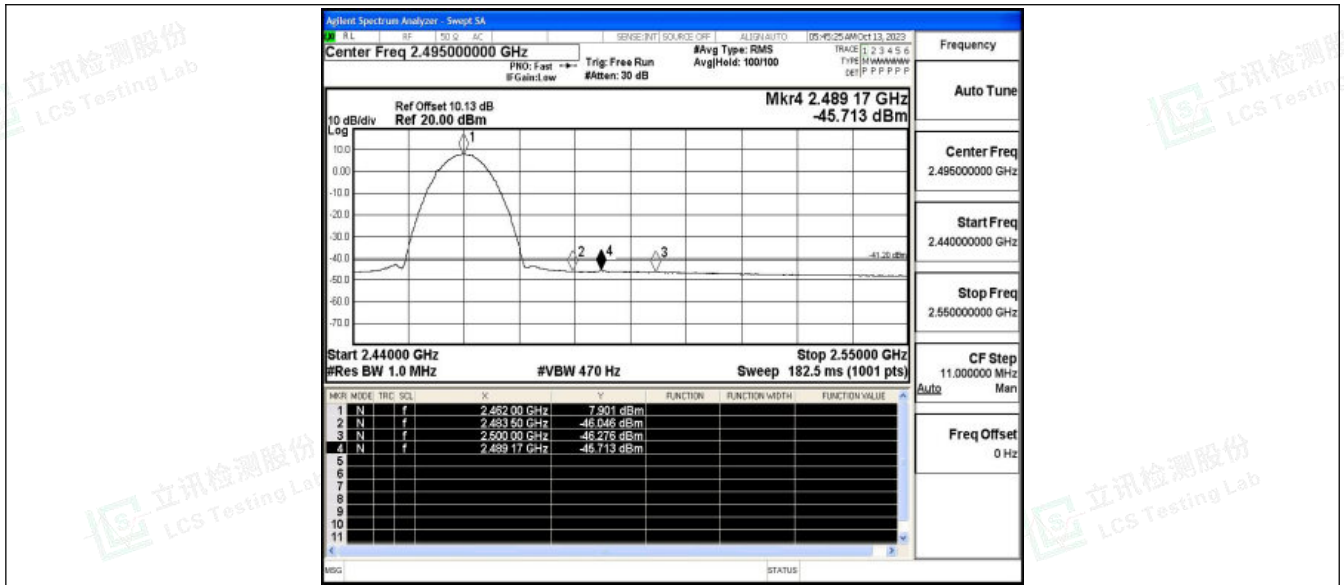


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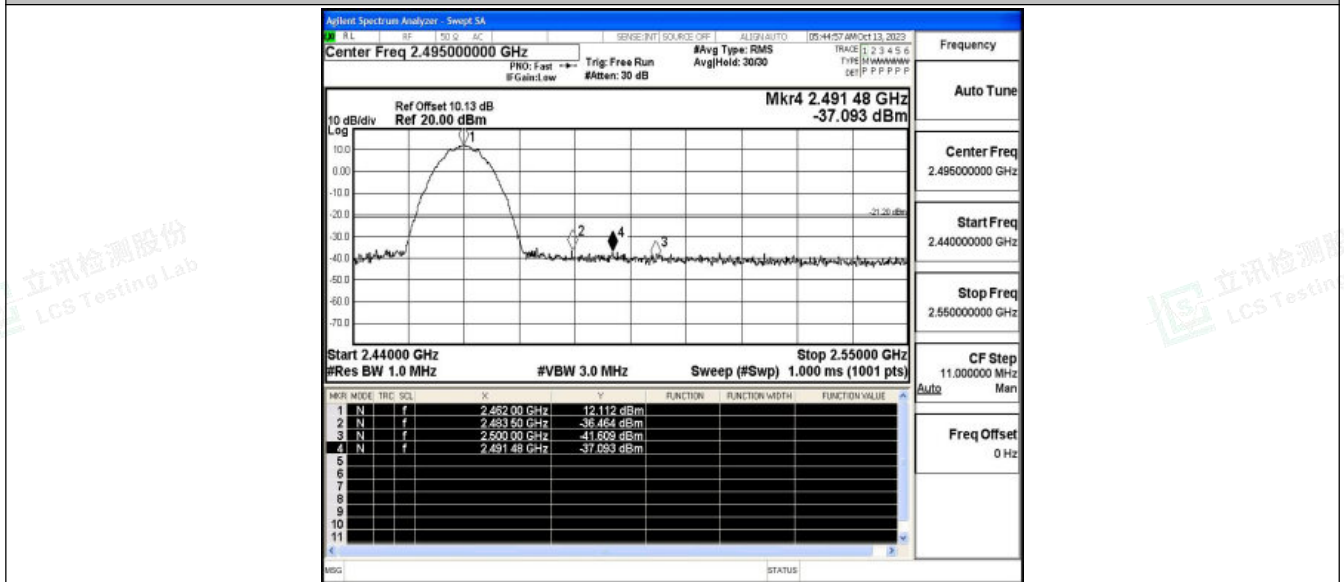
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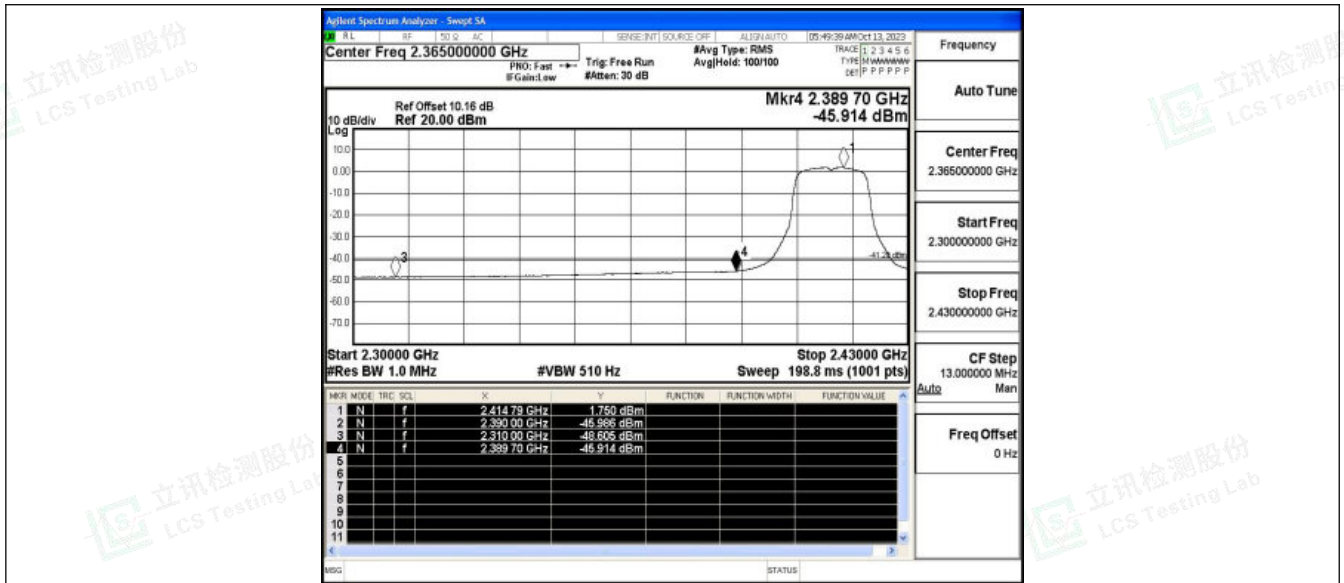


11B_Ant1_High_2462_Peak

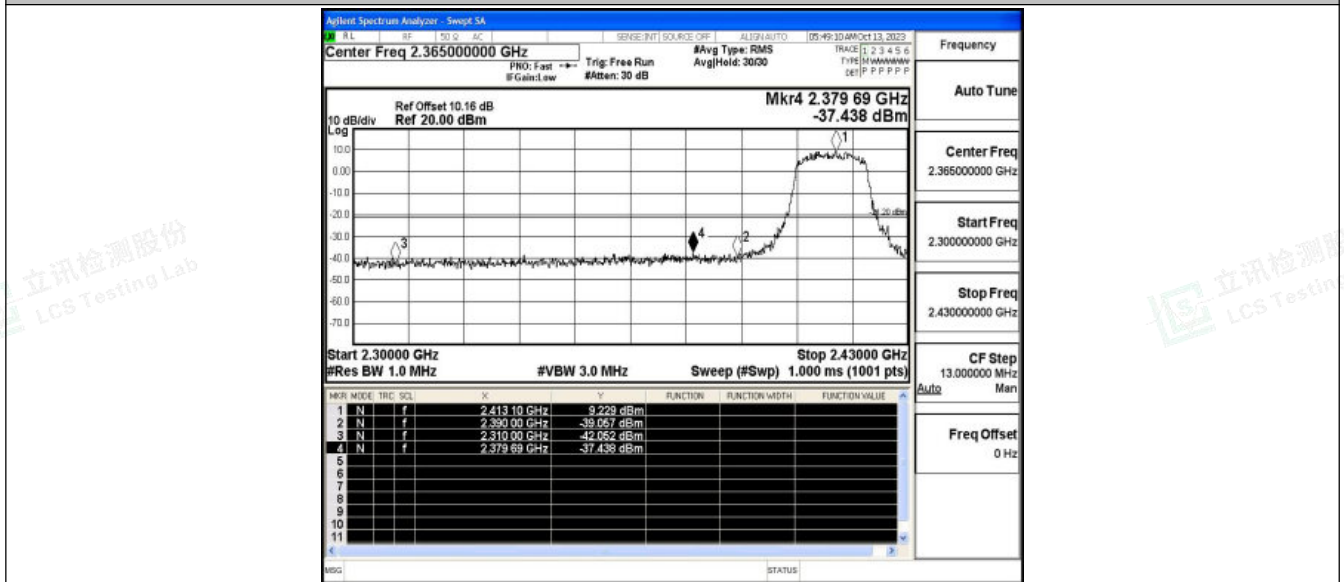


11G_Ant1_Low_2412_AV





11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV

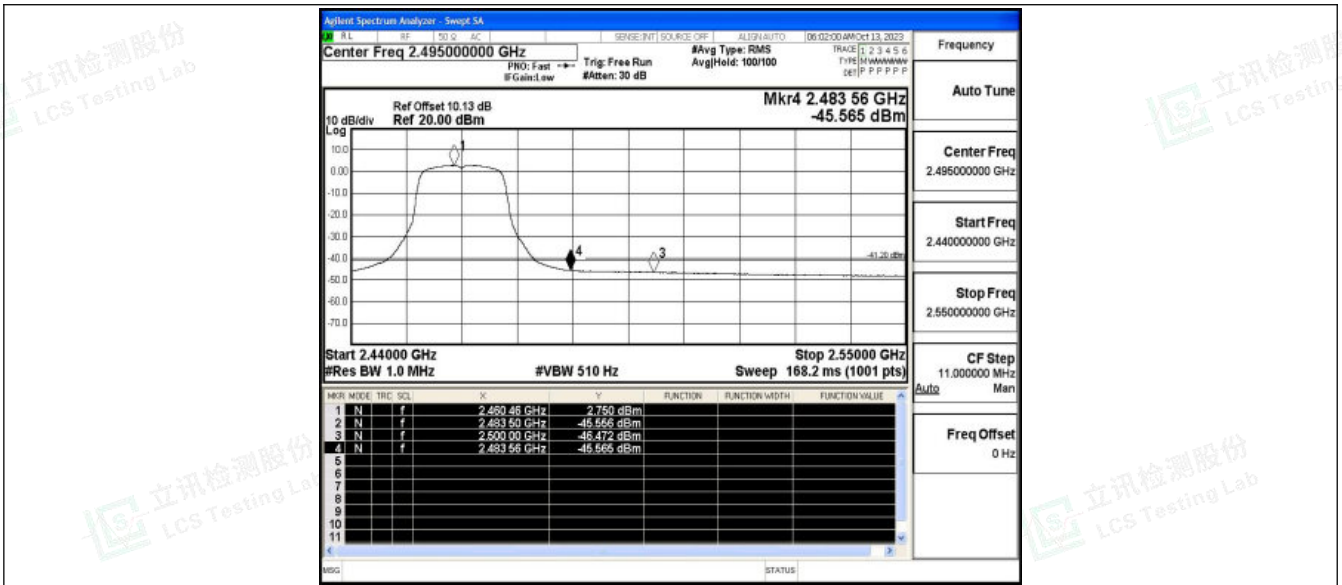


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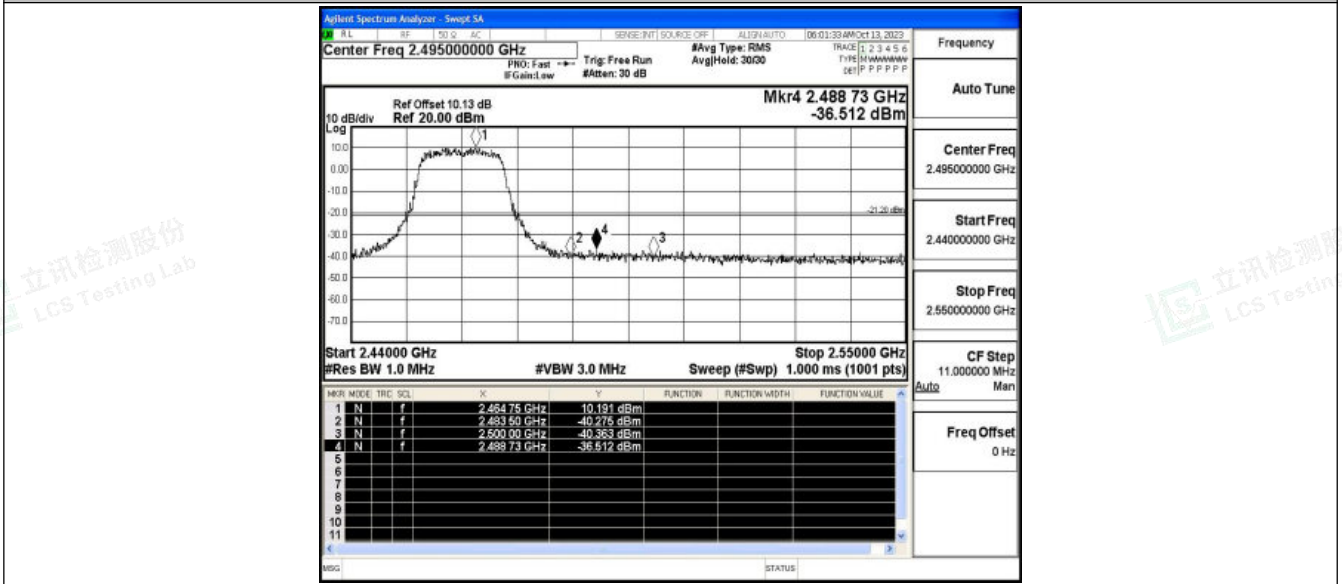
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11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV

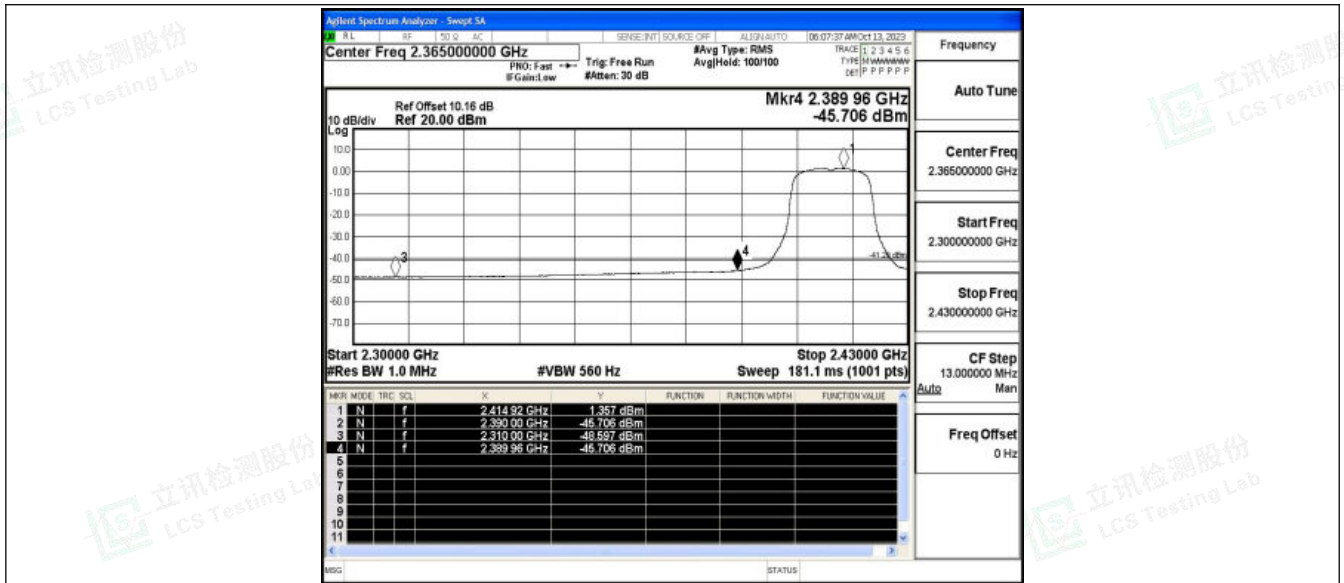


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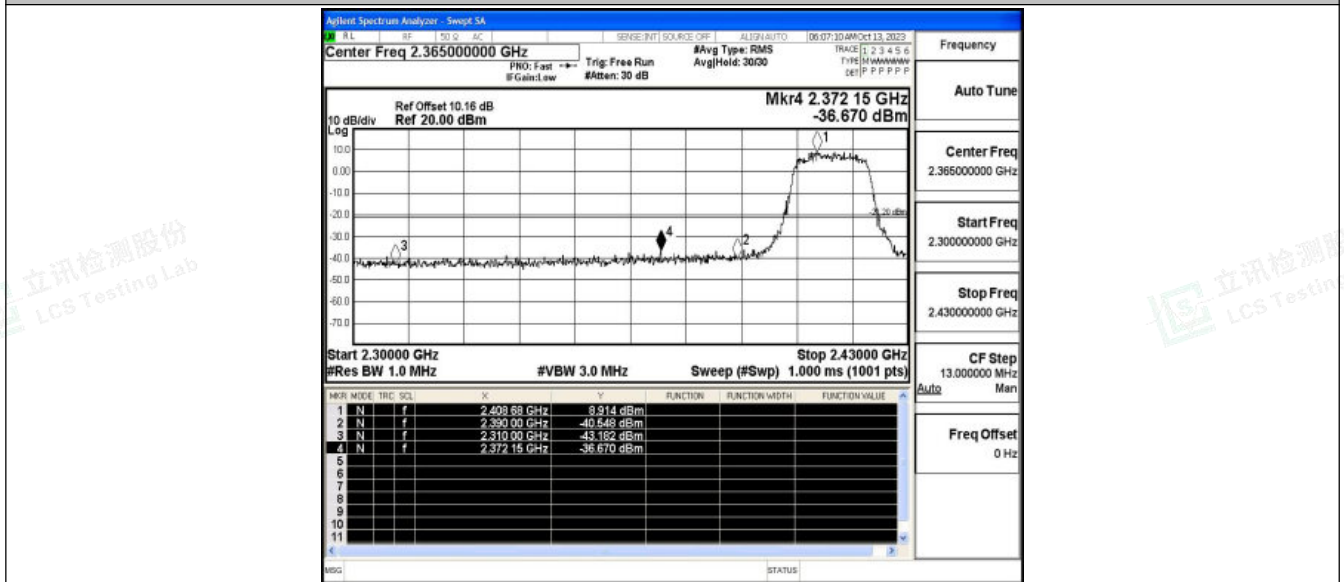
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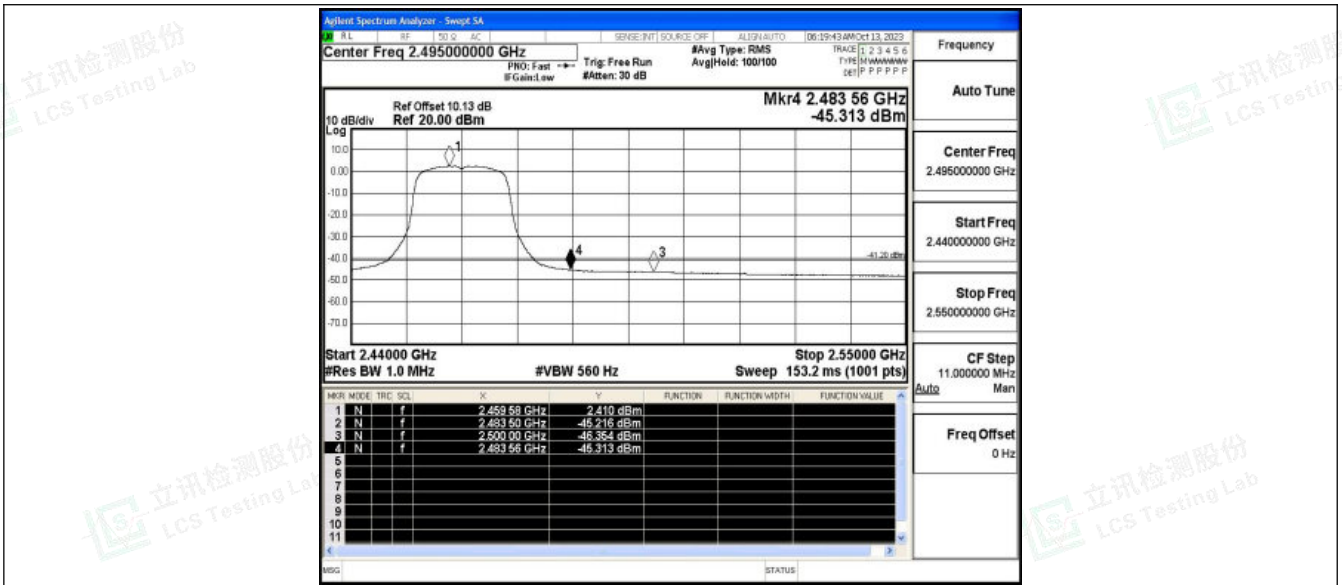


11N20SISO_Ant1_Low_2412_Peak

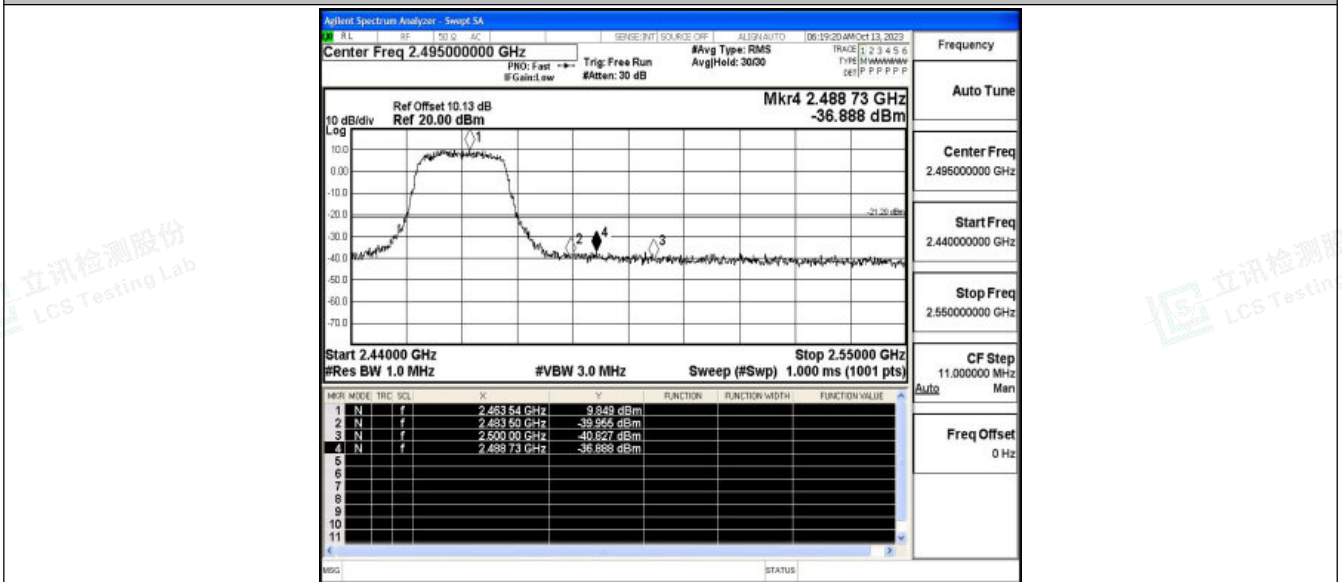


11N20SISO_Ant1_High_2462_AV





11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV

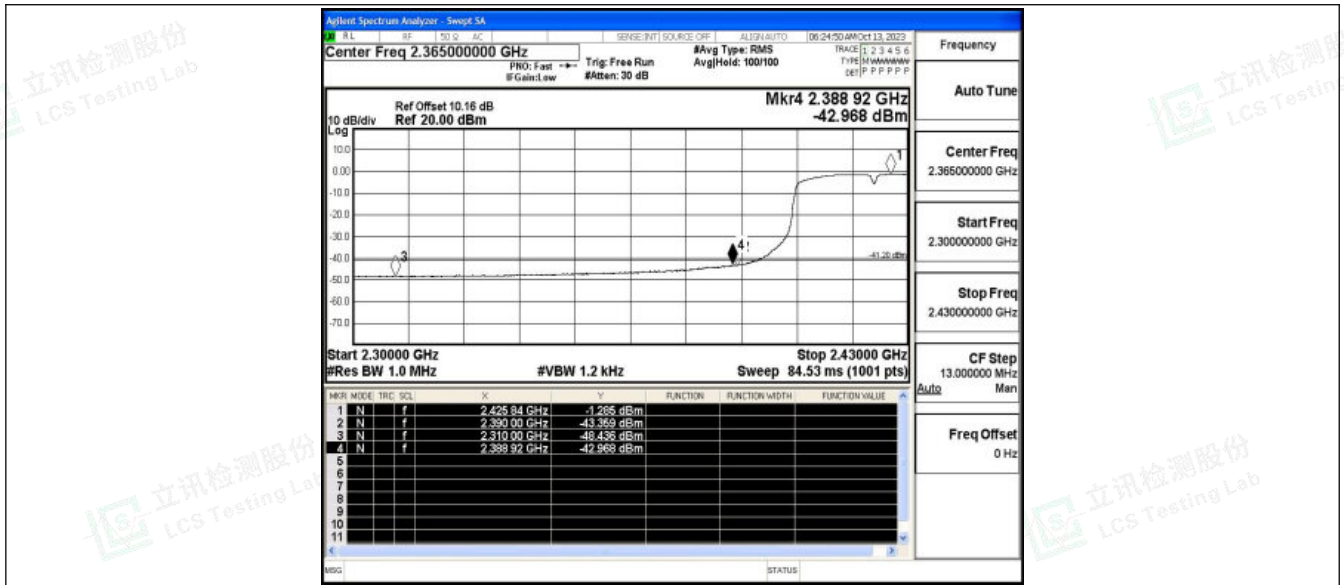


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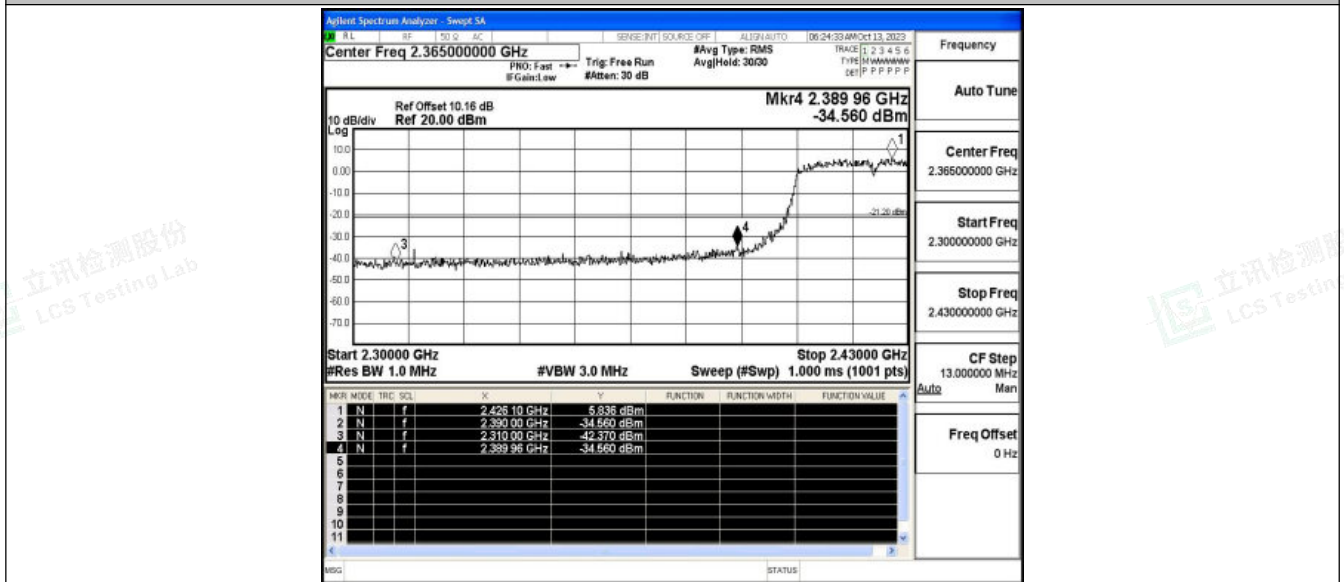
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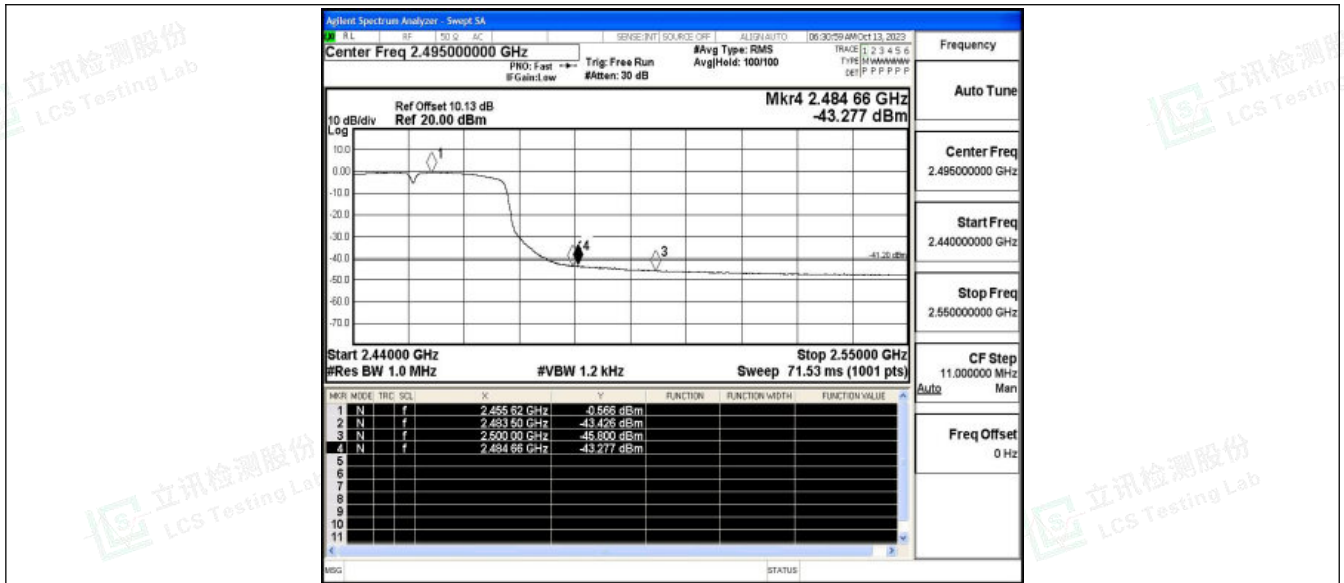


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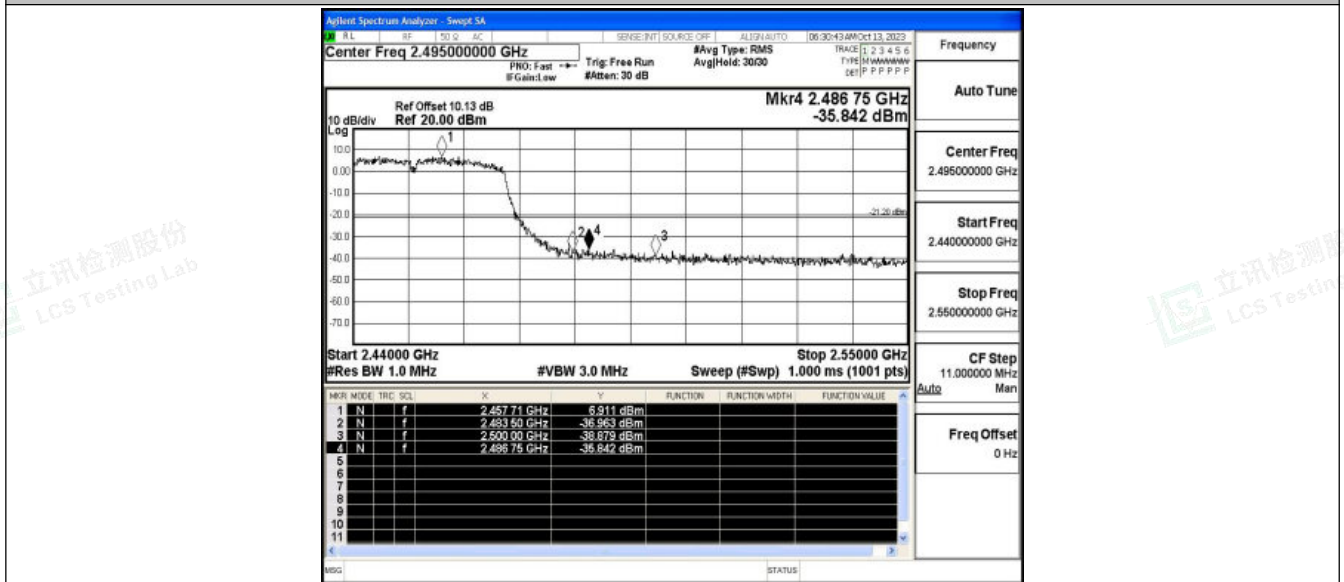


11N40SISO_Ant1_High_2452_AV





11N40SISO_Ant1_High_2452_Peak



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