



Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Kid tablet PC

Test Model: AT70K

Environmental Conditions

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



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518000, China
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B.1 6dB Bandwidth

Test Result

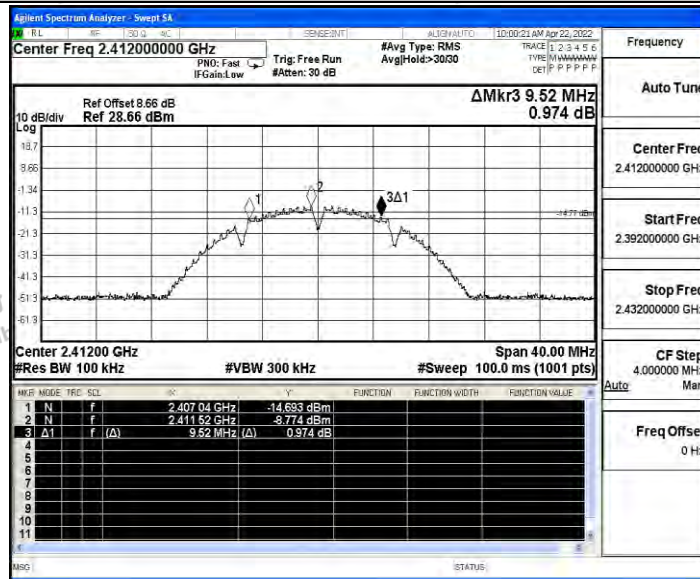
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.520	2407.040	2416.560	0.5	PASS
		2437	9.080	2432.480	2441.560	0.5	PASS
		2462	9.560	2457.000	2466.560	0.5	PASS
11G	Ant1	2412	15.080	2404.480	2419.560	0.5	PASS
		2437	15.080	2429.480	2444.560	0.5	PASS
		2462	15.080	2454.480	2469.560	0.5	PASS
11N20SISO	Ant1	2412	15.080	2404.480	2419.560	0.5	PASS
		2437	15.080	2429.480	2444.560	0.5	PASS
		2462	15.080	2454.480	2469.560	0.5	PASS
11N40SISO	Ant1	2422	35.120	2404.480	2439.600	0.5	PASS
		2437	35.040	2419.480	2454.520	0.5	PASS
		2452	35.040	2434.480	2469.520	0.5	PASS



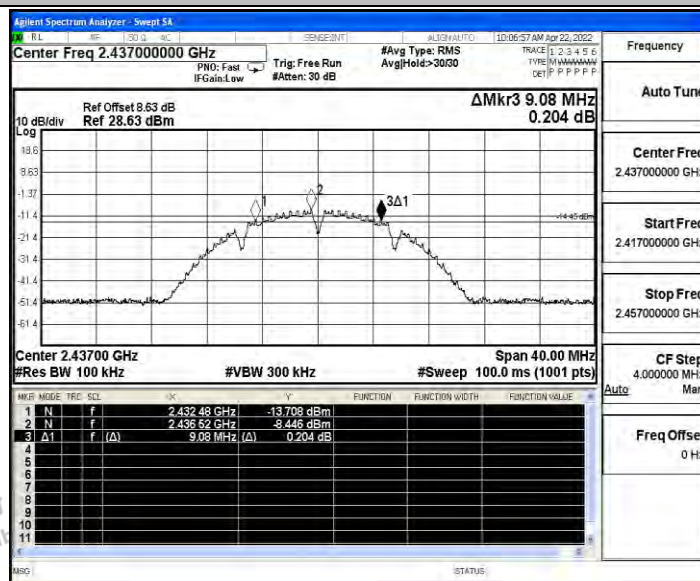


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

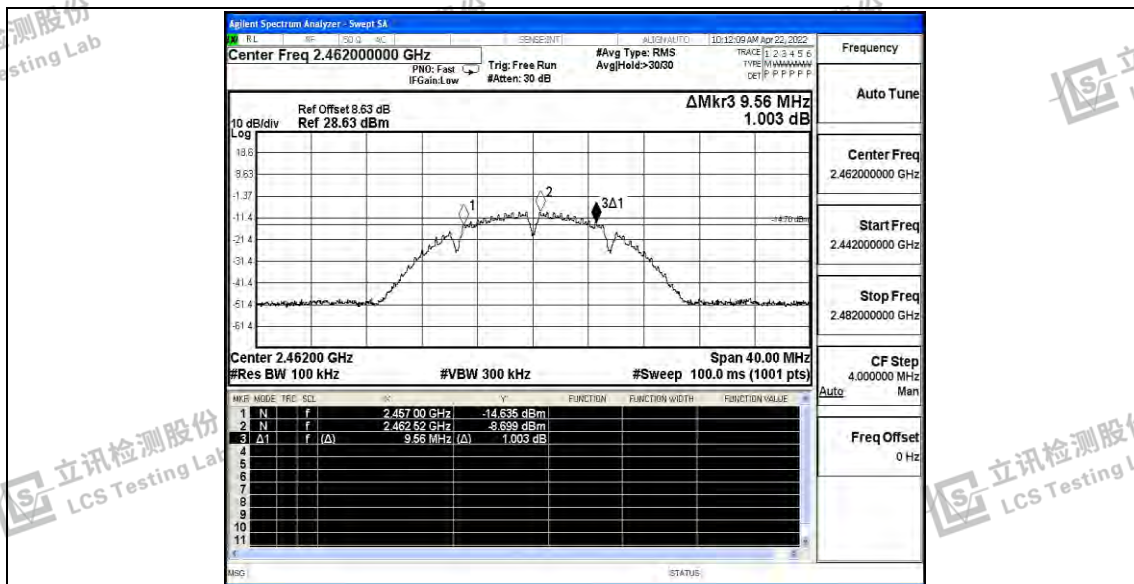


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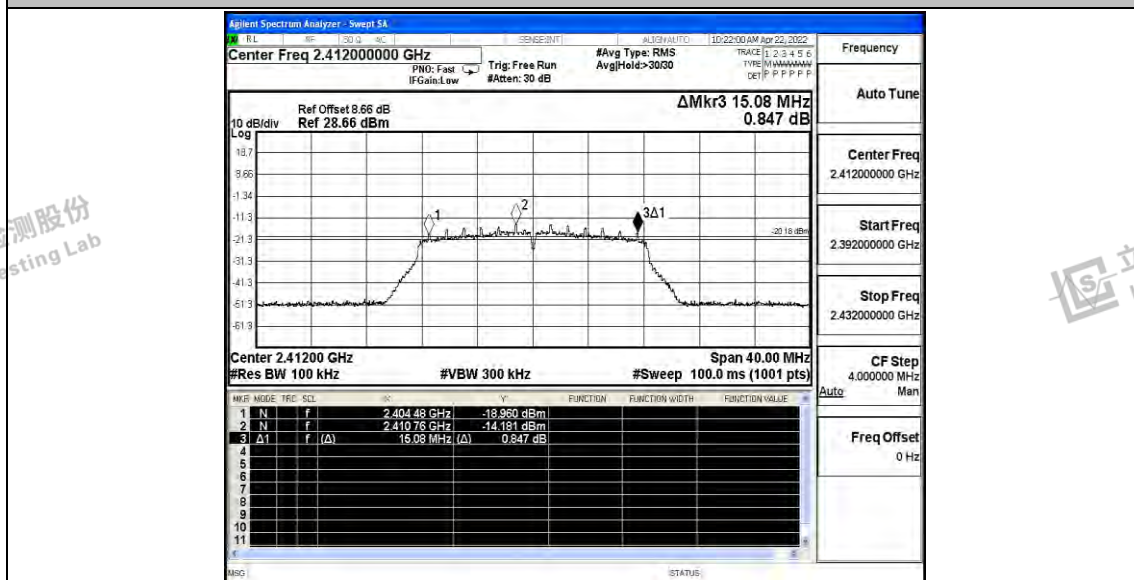
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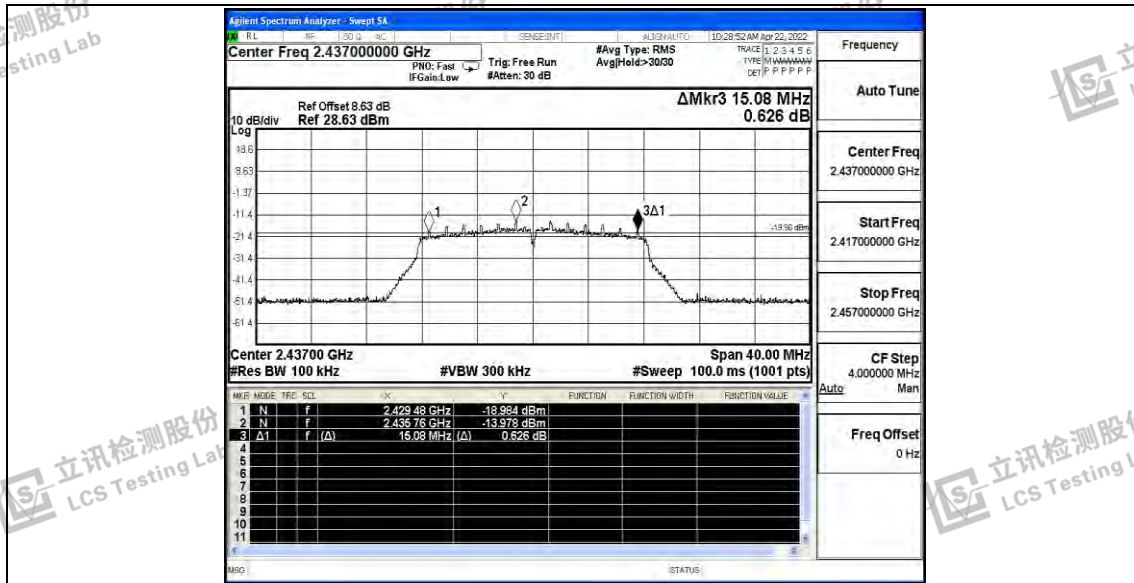


11G_Ant1_2412

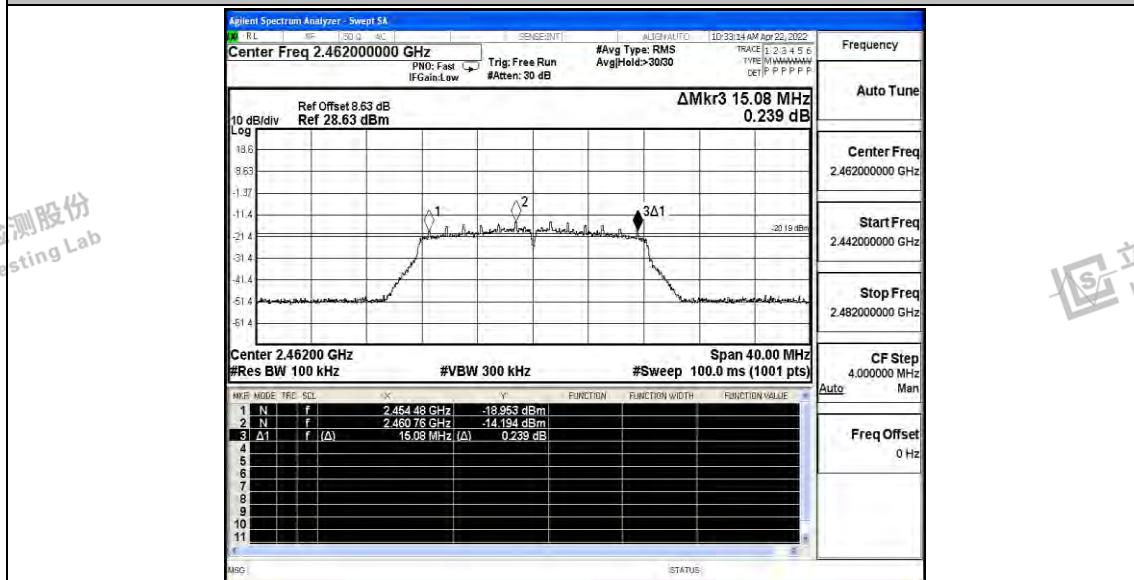


11G_Ant1_2437



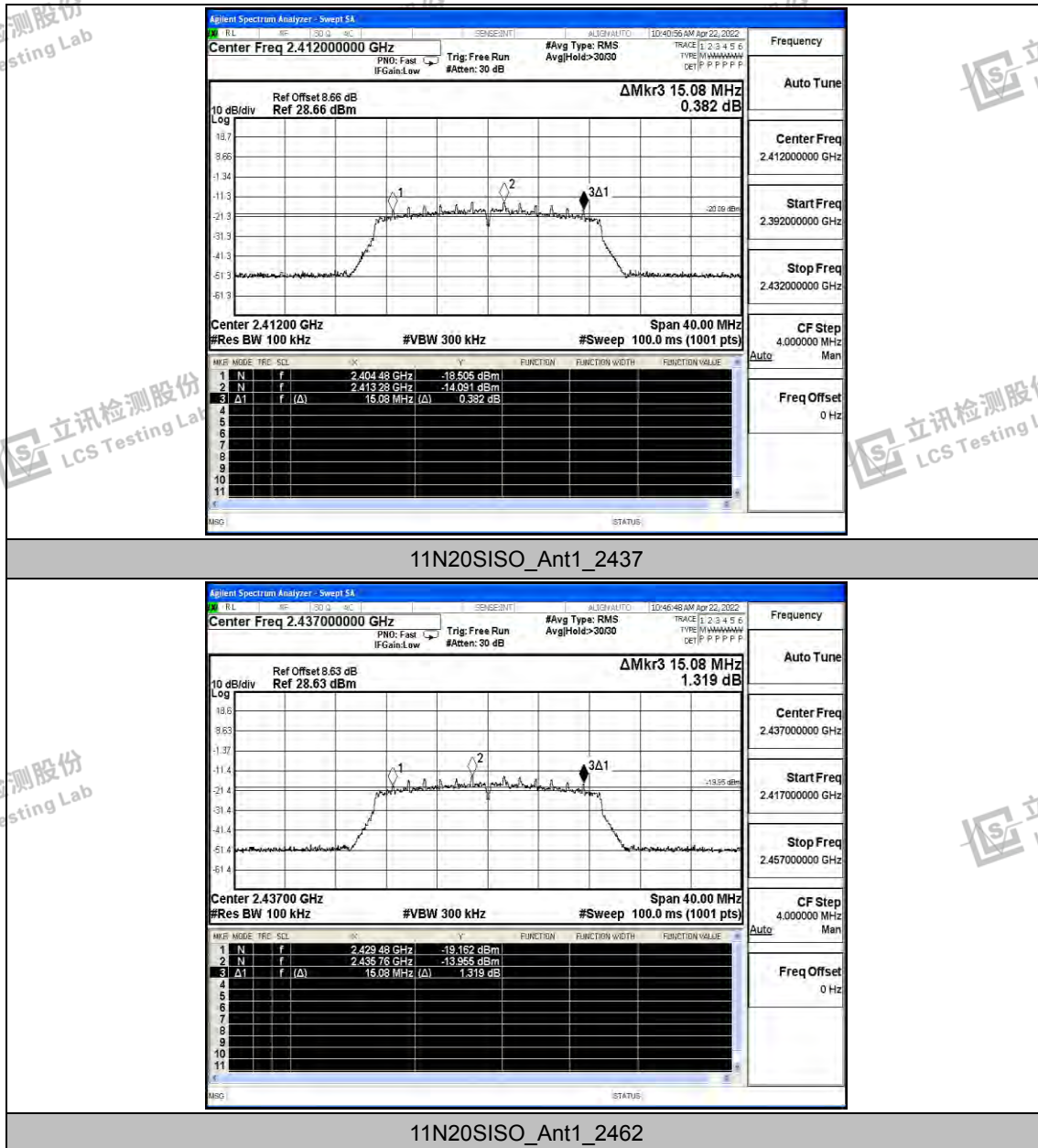


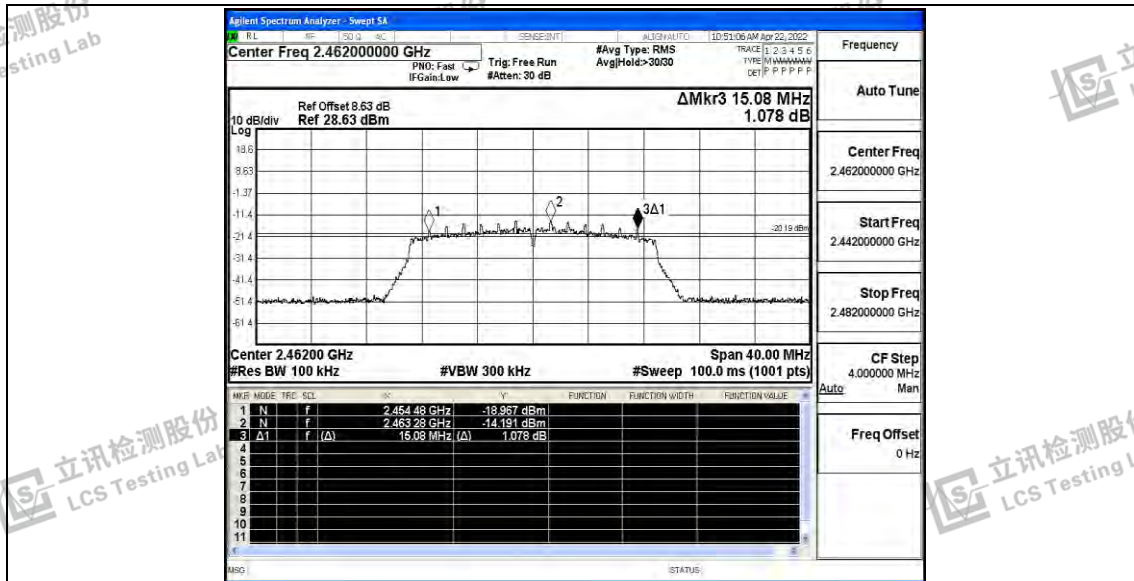
11G_Ant1_2462



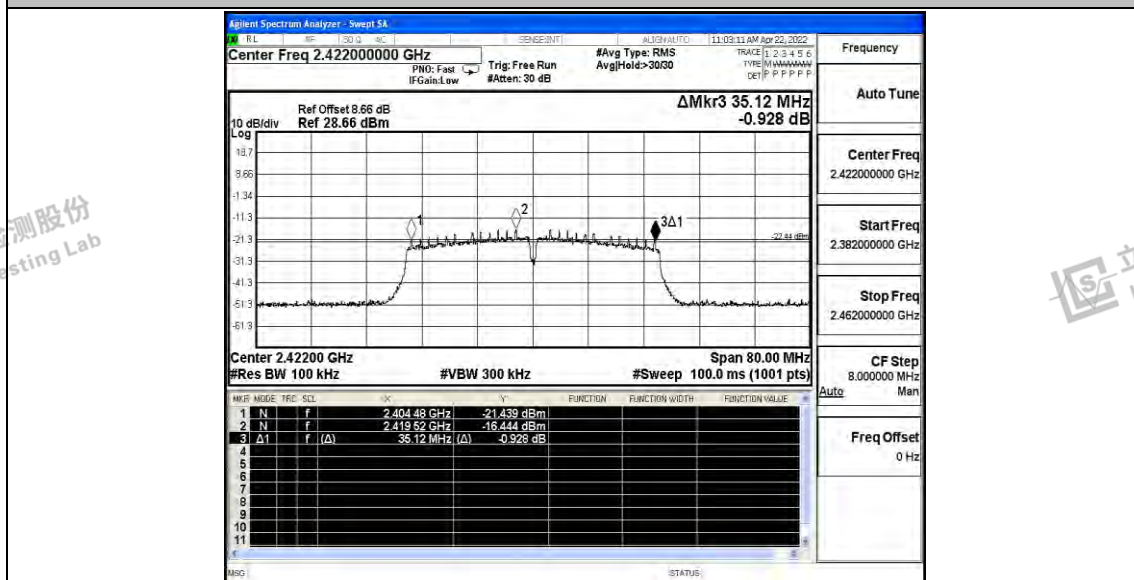
11N20SISO_Ant1_2412







11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

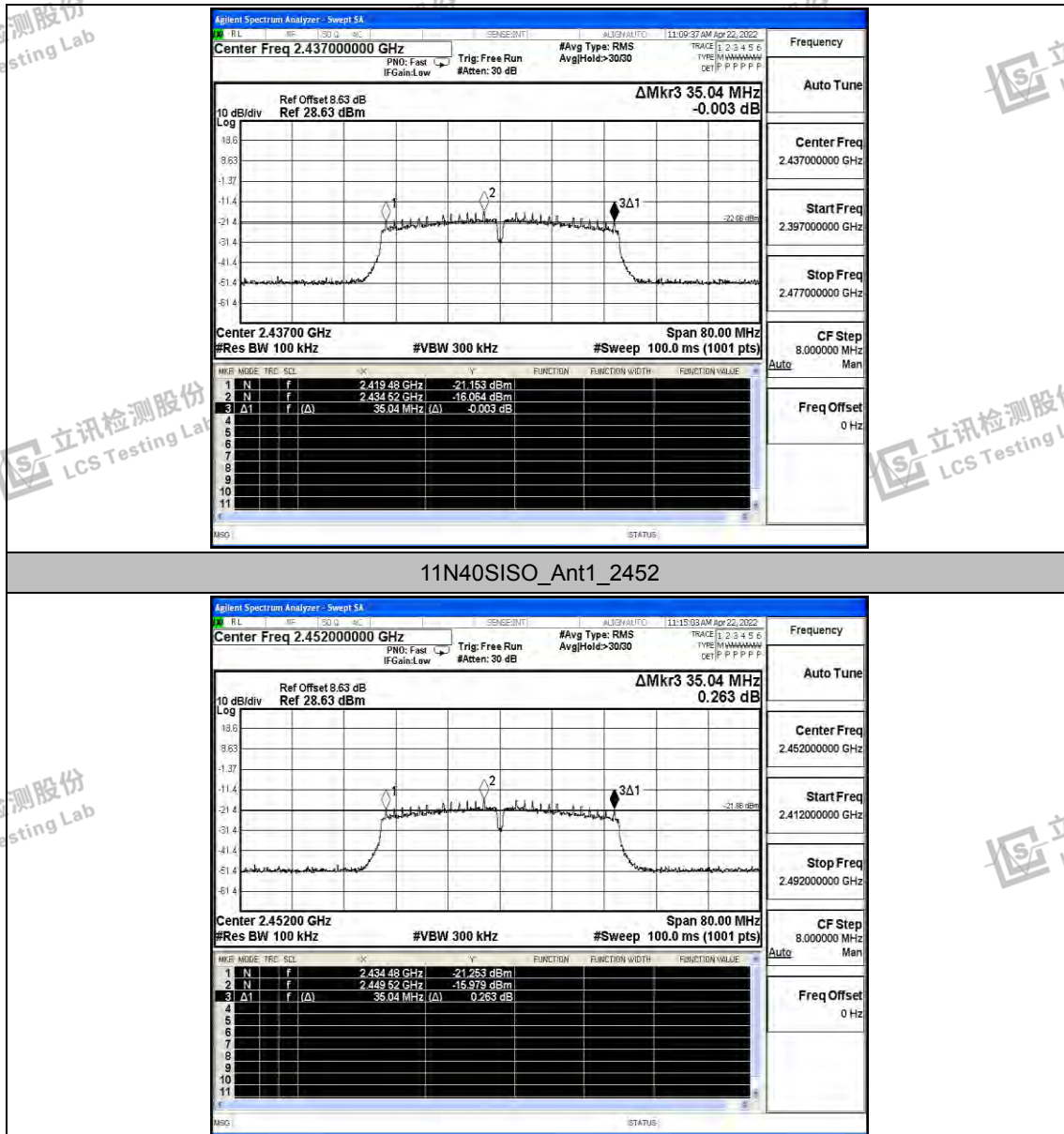


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B.2 Occupied Channel Bandwidth

Test Result

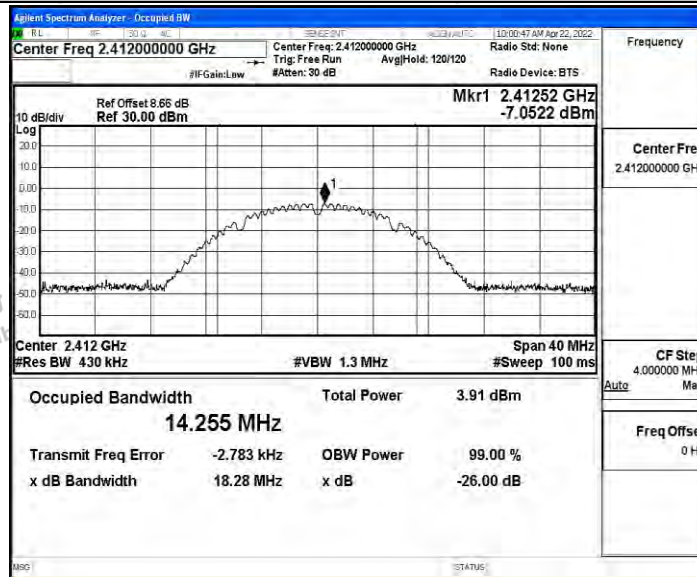
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.255	2404.870	2419.125	---	---
		2437	14.243	2429.889	2444.132	---	---
		2462	14.291	2454.846	2469.137	---	---
11G	Ant1	2412	16.646	2403.649	2420.295	---	---
		2437	16.694	2428.662	2445.356	---	---
		2462	16.682	2453.663	2470.345	---	---
11N20SISO	Ant1	2412	17.680	2403.159	2420.839	---	---
		2437	17.631	2428.183	2445.814	---	---
		2462	17.725	2453.132	2470.857	---	---
11N40SISO	Ant1	2422	36.034	2403.936	2439.970	---	---
		2437	35.987	2419.007	2454.994	---	---
		2452	35.951	2433.993	2469.944	---	---



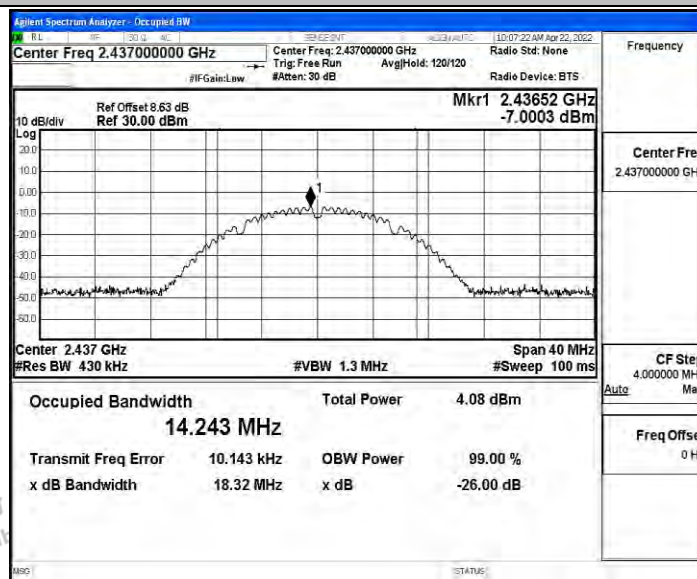


Test Graphs

11B_Ant1_2412

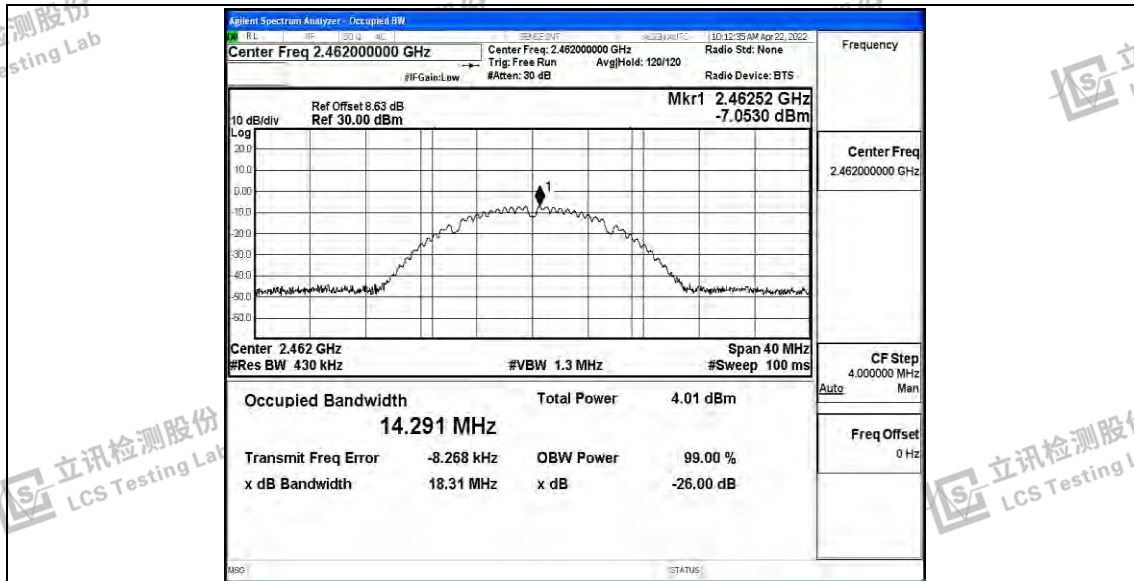


11B_Ant1_2437

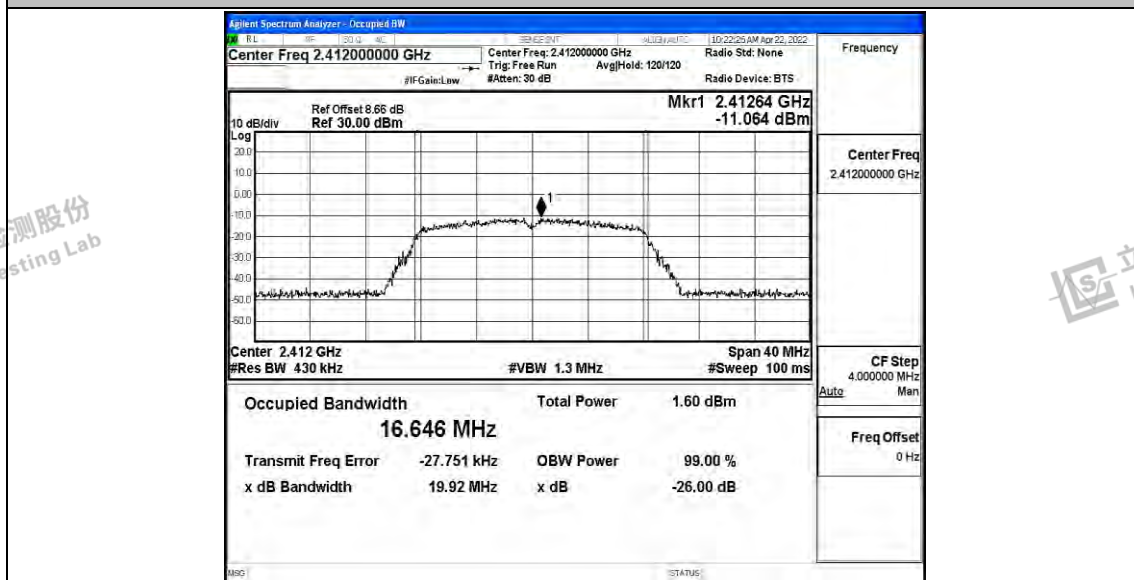


11B_Ant1_2462



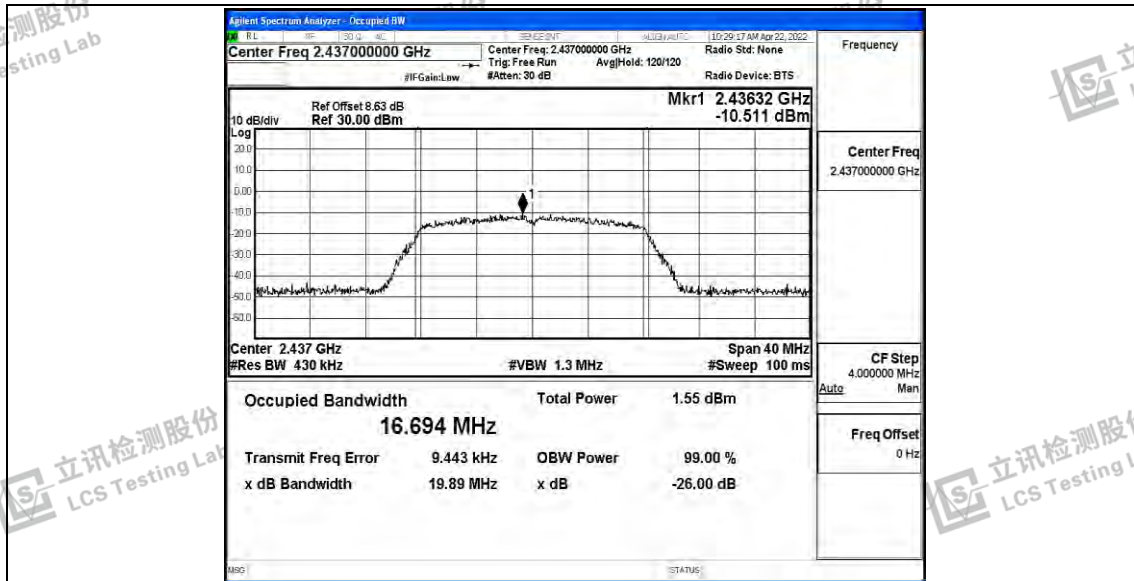


11G_Ant1_2412

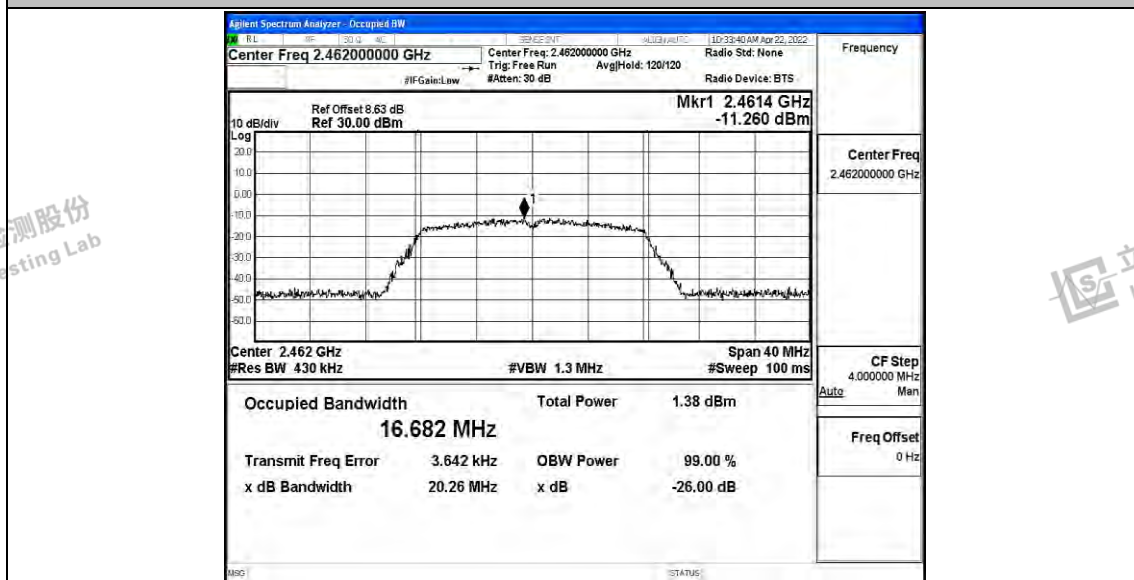


11G_Ant1_2437



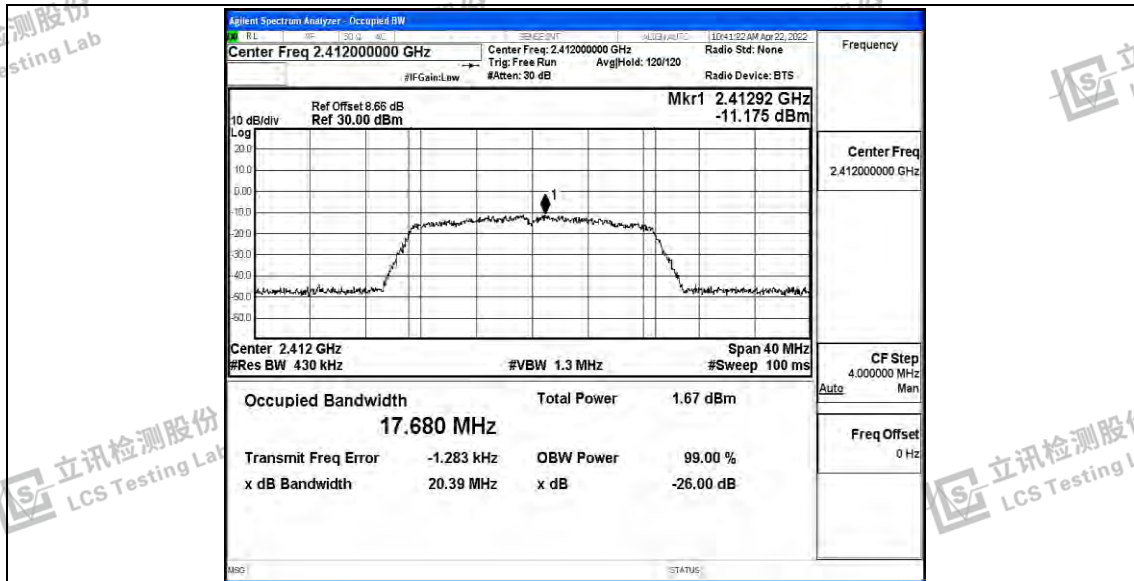


11G_Ant1_2462

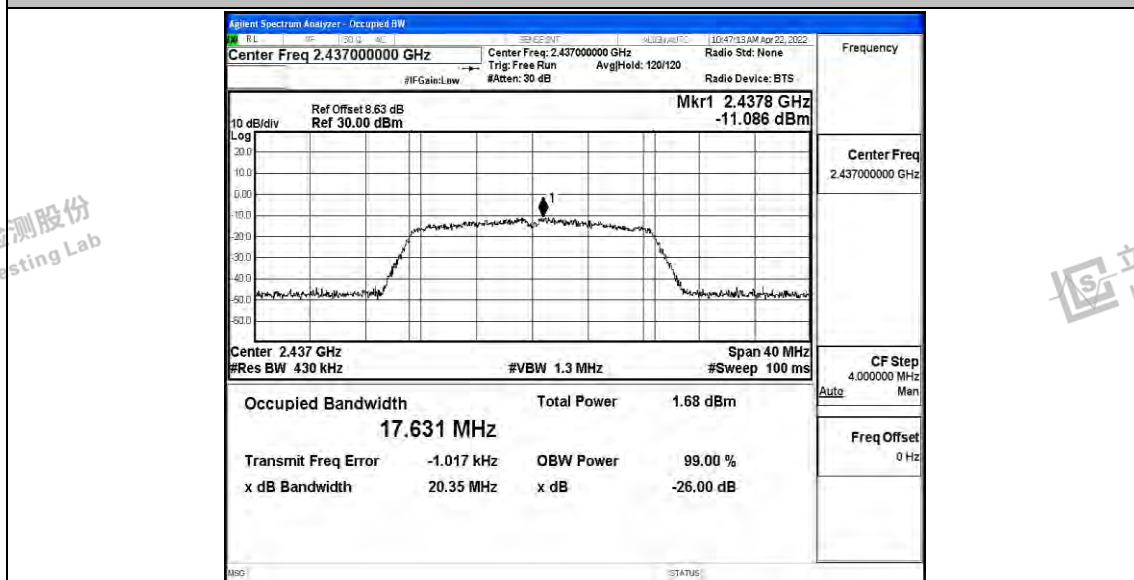


11N20SISO_Ant1_2412



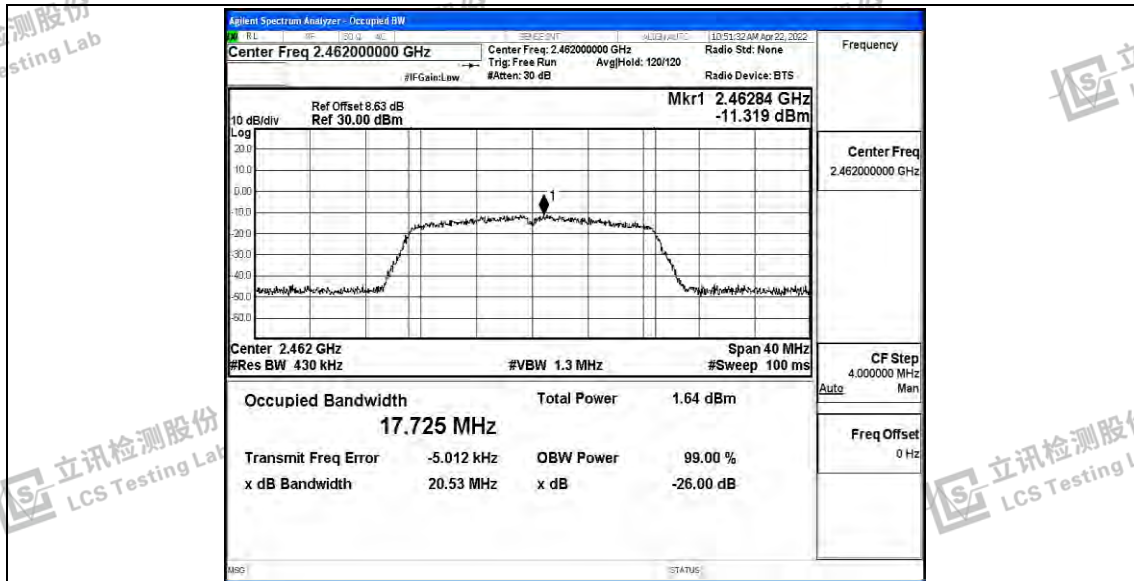


11N20SISO_Ant1_2437

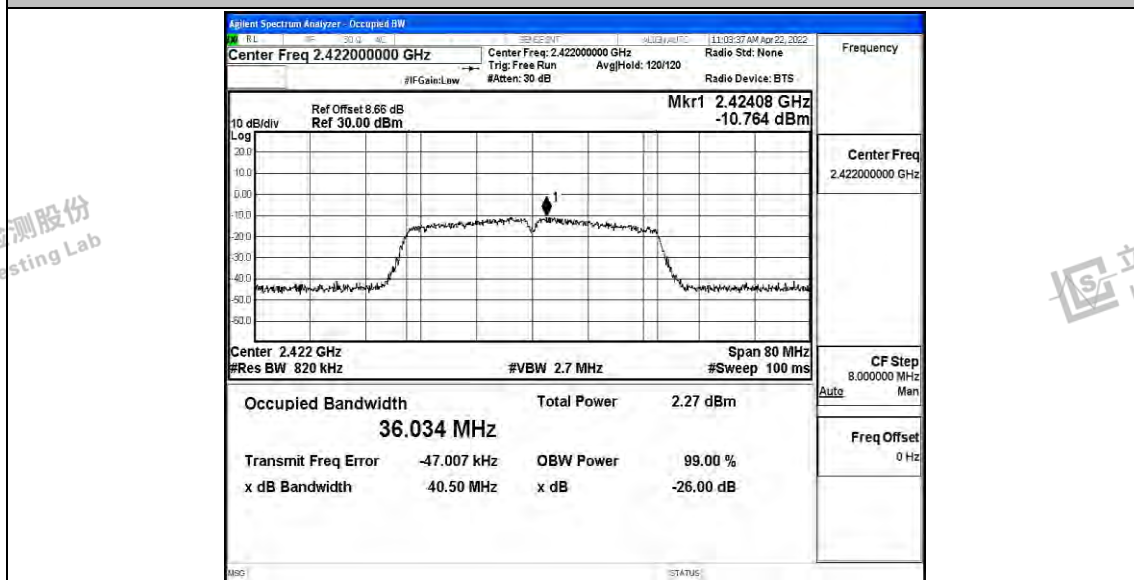


11N20SISO_Ant1_2462



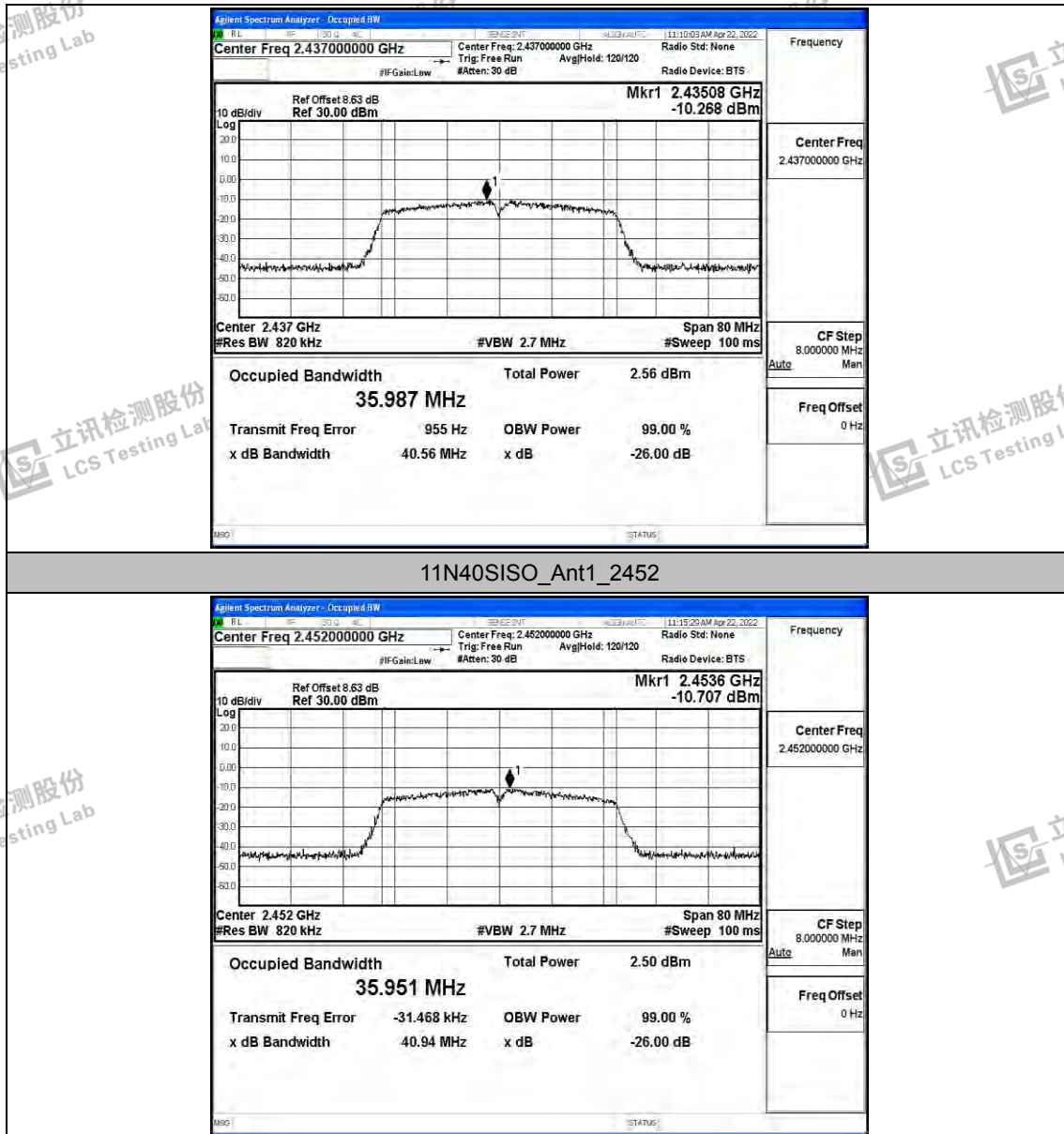


11N40SISO_Ant1_2422



11N40SISO_Ant1_2437







B.3 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	4.26	≤30.00	PASS
		2437	4.42	≤30.00	PASS
		2462	4.33	≤30.00	PASS
11G	Ant1	2412	4.21	≤30.00	PASS
		2437	4.18	≤30.00	PASS
		2462	4.07	≤30.00	PASS
11N20SISO	Ant1	2412	4.13	≤30.00	PASS
		2437	4.12	≤30.00	PASS
		2462	4.09	≤30.00	PASS
11N40SISO	Ant1	2422	4.28	≤30.00	PASS
		2437	4.54	≤30.00	PASS
		2452	4.46	≤30.00	PASS





B.4 Maximum power spectral density

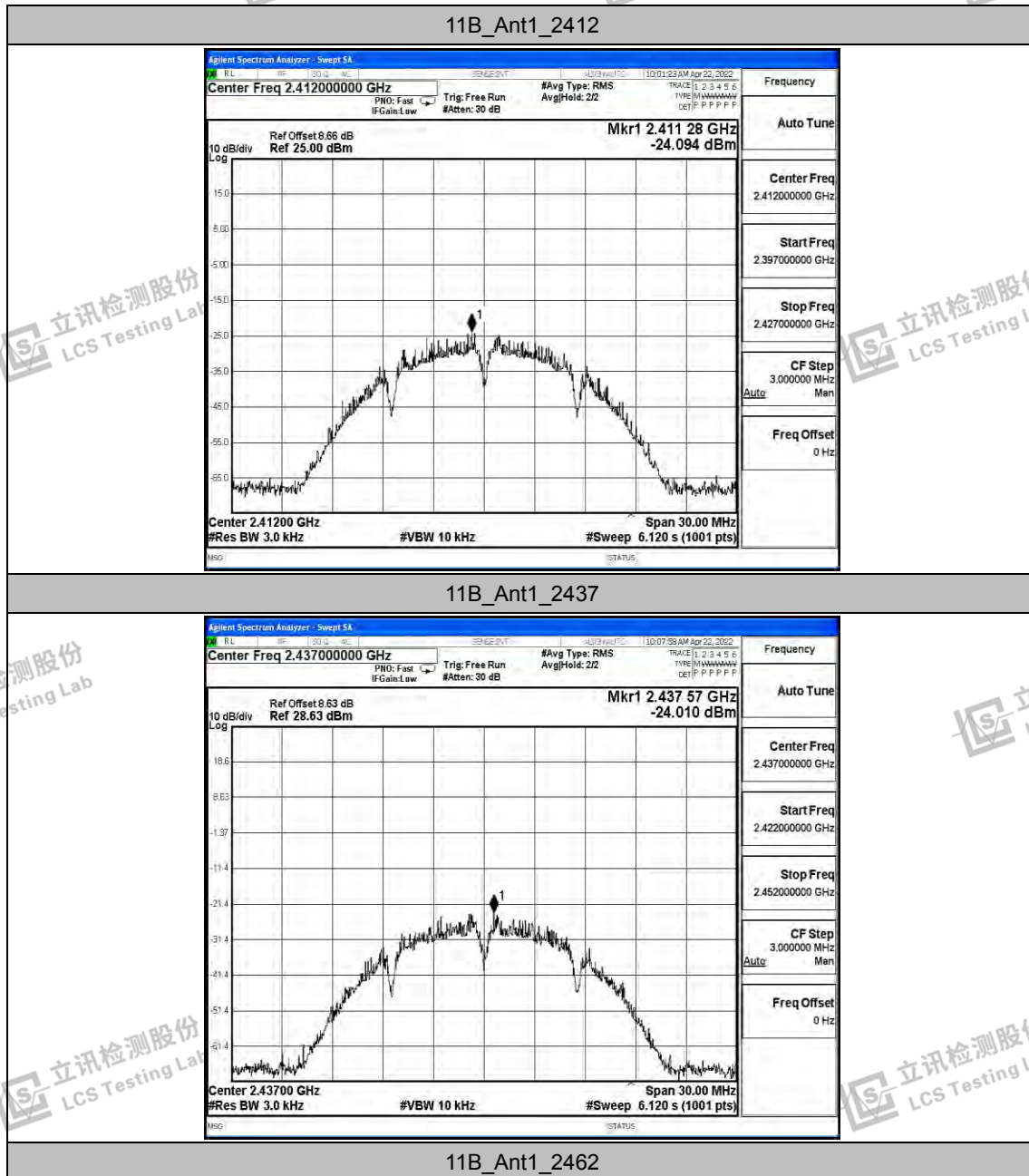
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-24.09	≤8.00	PASS
		2437	-24.01	≤8.00	PASS
		2462	-23.87	≤8.00	PASS
11G	Ant1	2412	-30.82	≤8.00	PASS
		2437	-29.98	≤8.00	PASS
		2462	-30.82	≤8.00	PASS
11N20SISO	Ant1	2412	-30.7	≤8.00	PASS
		2437	-30.54	≤8.00	PASS
		2462	-30.51	≤8.00	PASS
11N40SISO	Ant1	2422	-32.94	≤8.00	PASS
		2437	-33.14	≤8.00	PASS
		2452	-33.2	≤8.00	PASS





Test Graphs

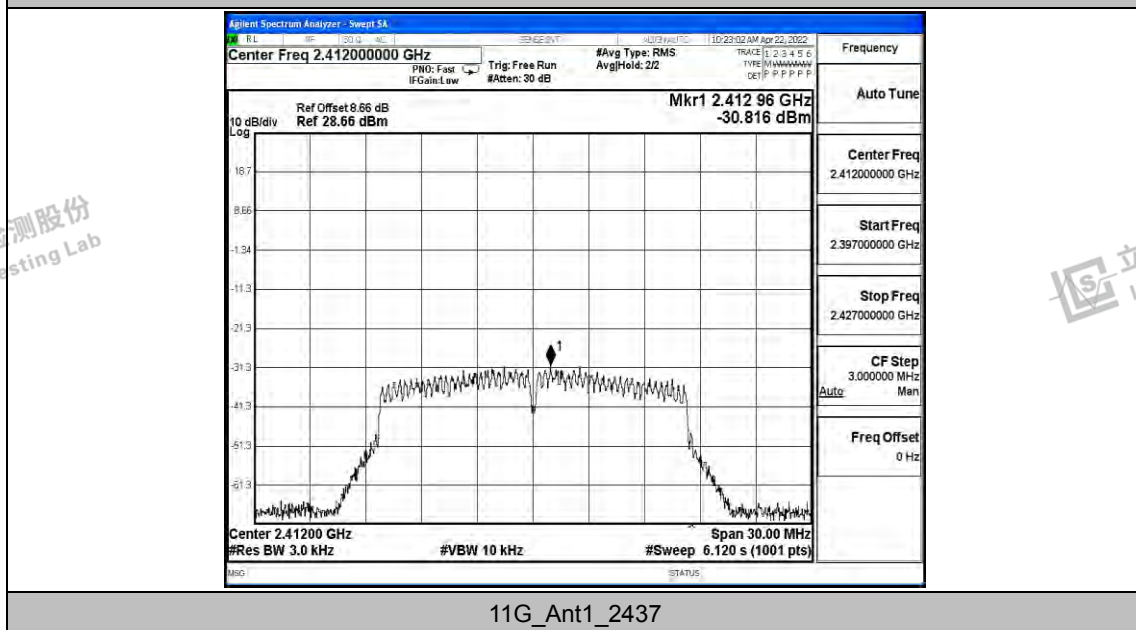
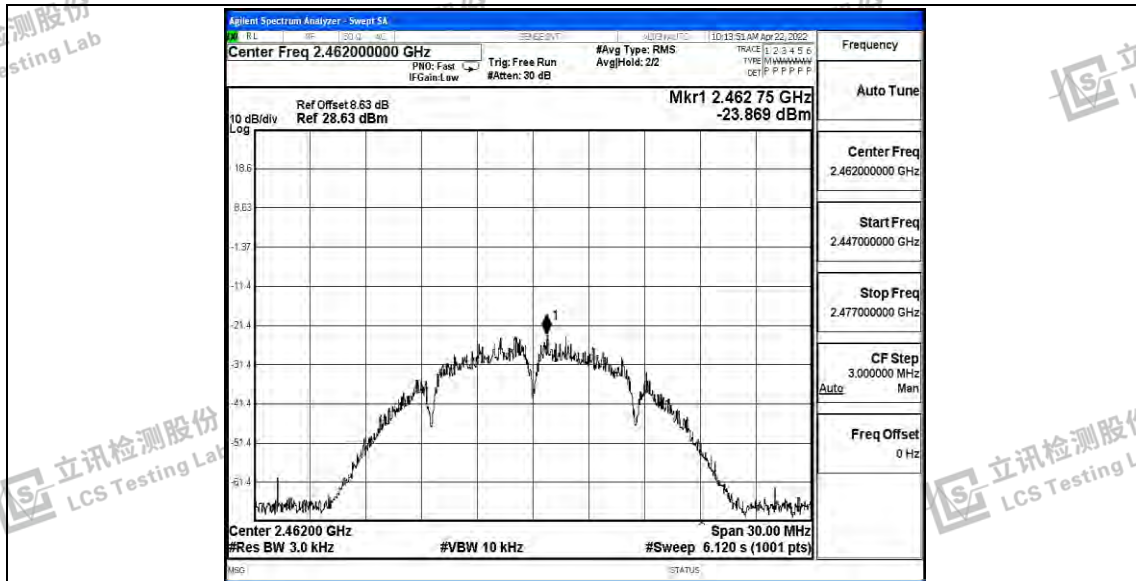


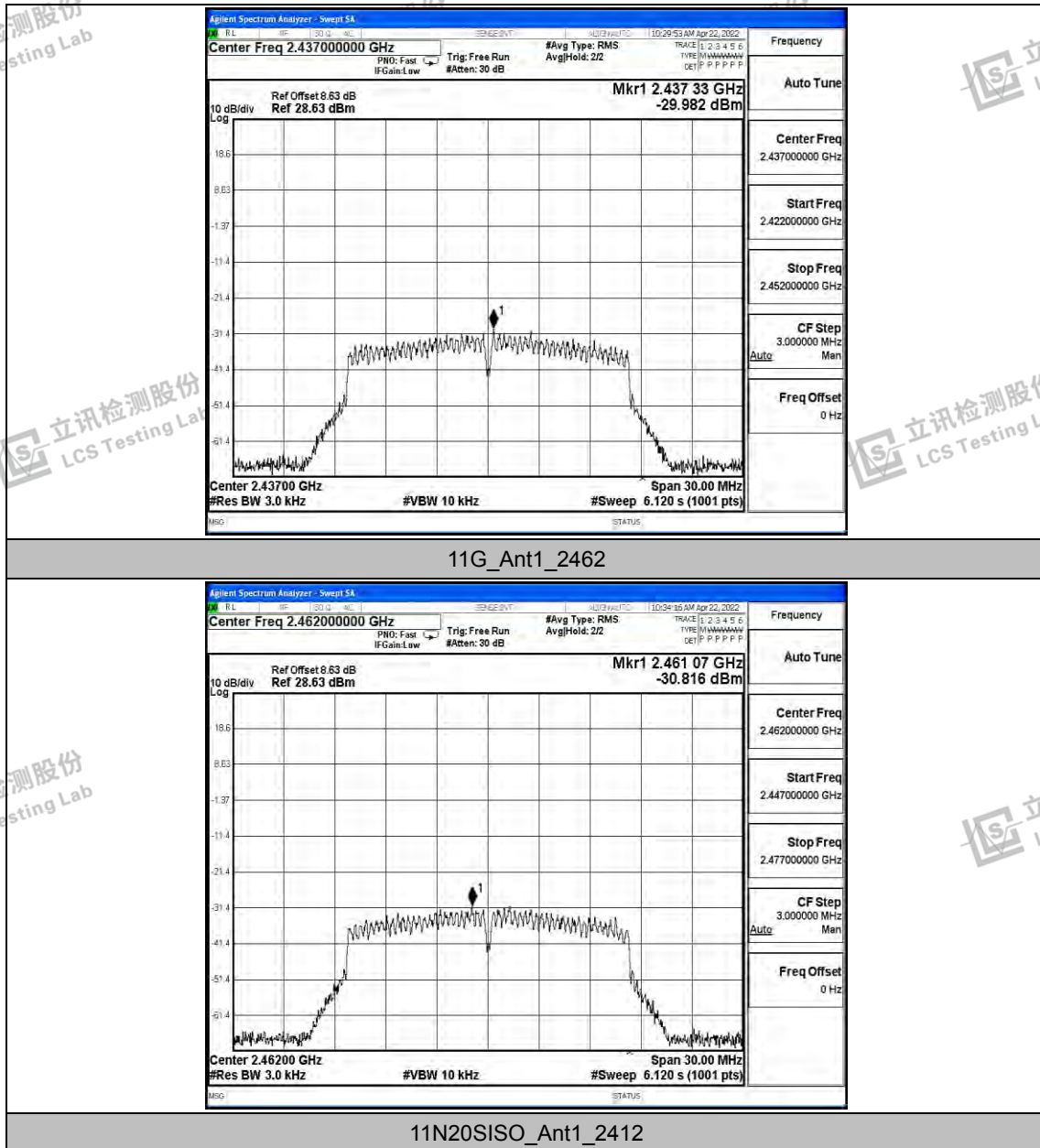
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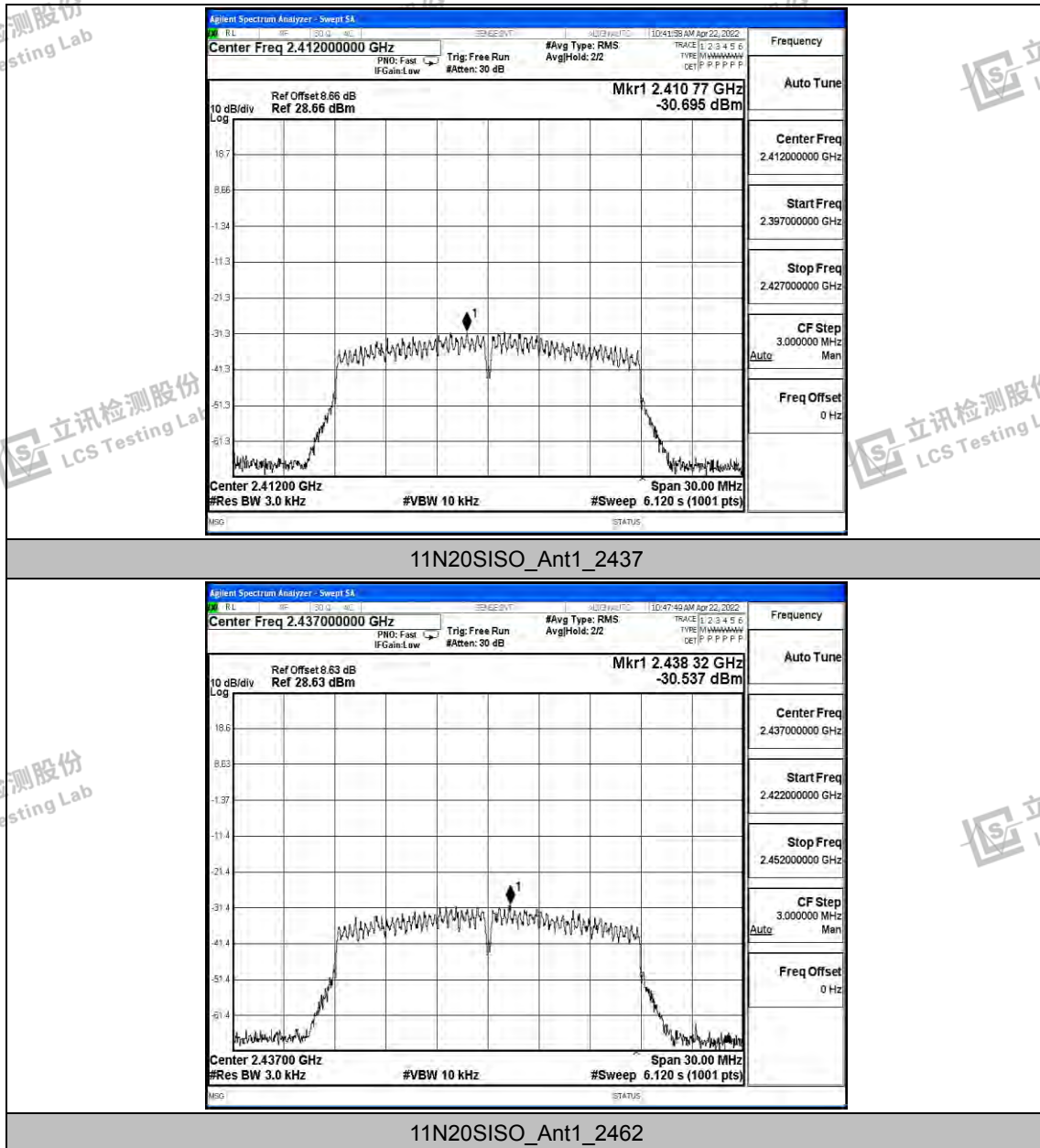
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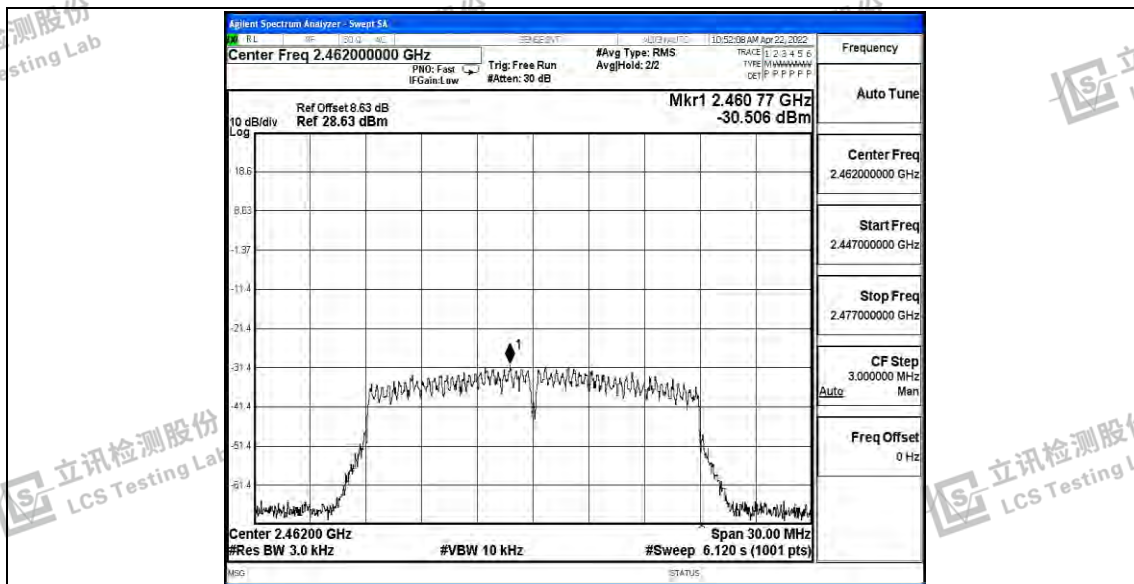
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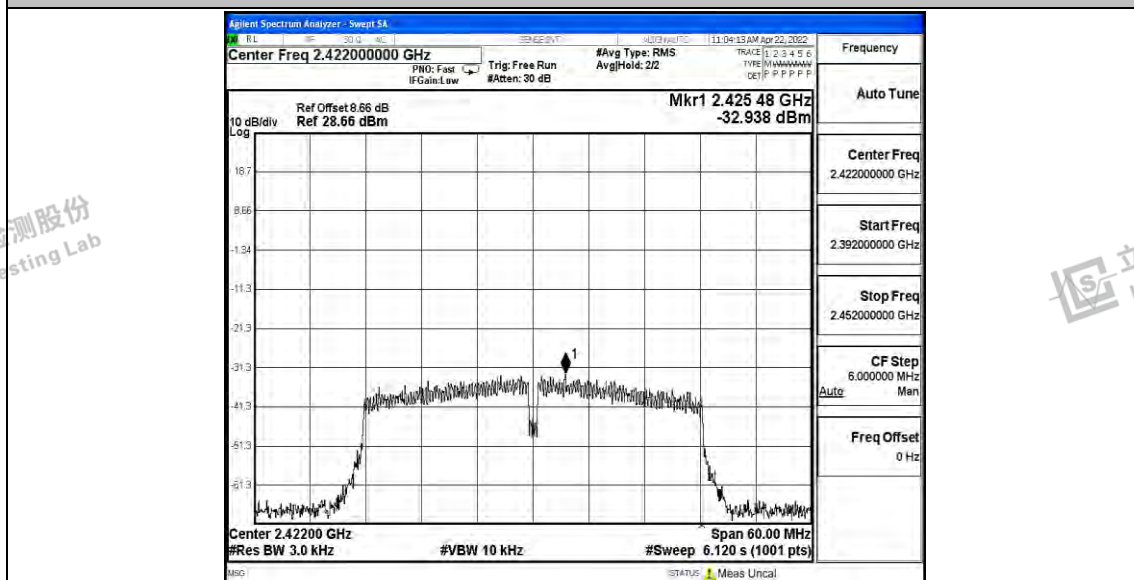






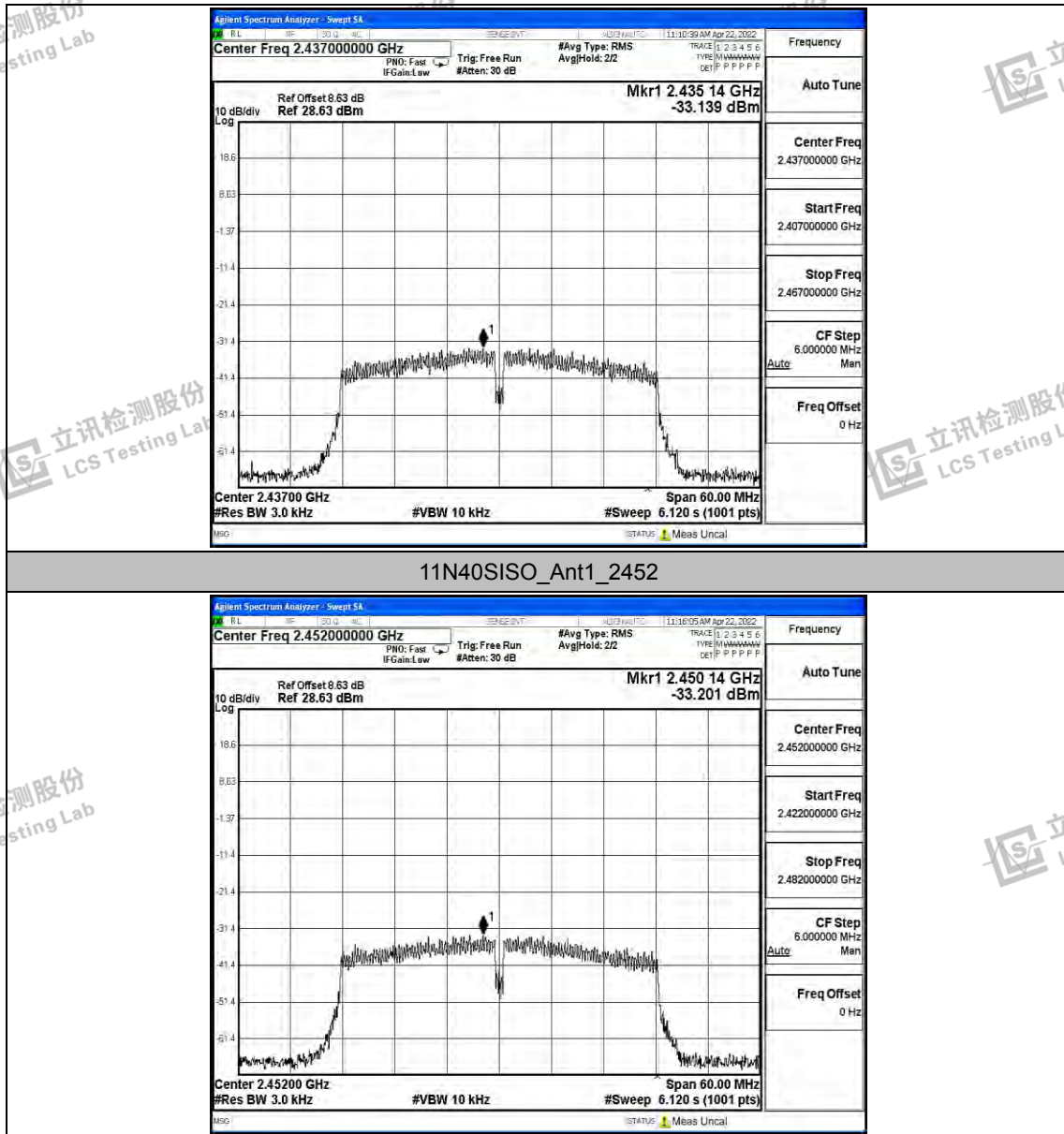


11N40SISO_Ant1_2422



11N40SISO_Ant1_2437







B.5 Band edge measurements

Test Result

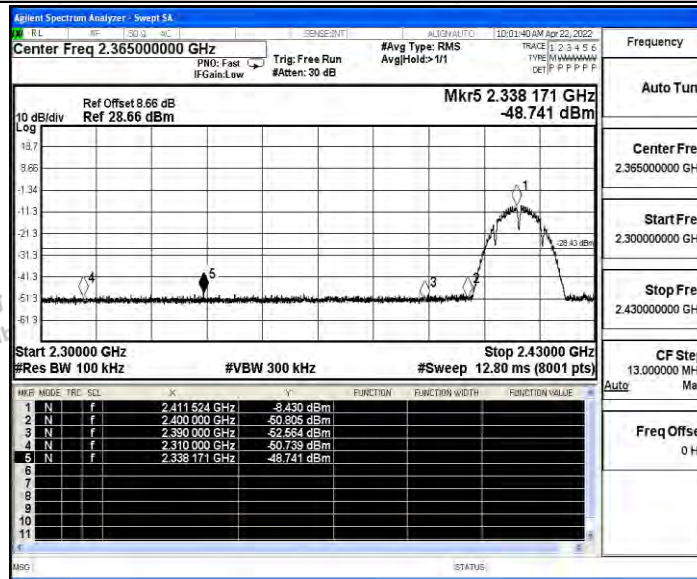
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-8.43	-48.74	≤ -28.43	PASS
		High	2462	-8.41	-48.33	≤ -28.41	PASS
11G	Ant1	Low	2412	-14.81	-48.02	≤ -34.81	PASS
		High	2462	-13.75	-47.61	≤ -33.75	PASS
11N20SISO	Ant1	Low	2412	-13.43	-48.74	≤ -33.43	PASS
		High	2462	-13.68	-48.18	≤ -33.68	PASS
11N40SISO	Ant1	Low	2422	-16.40	-48.06	≤ -36.4	PASS
		High	2452	-16.20	-48.2	≤ -36.2	PASS



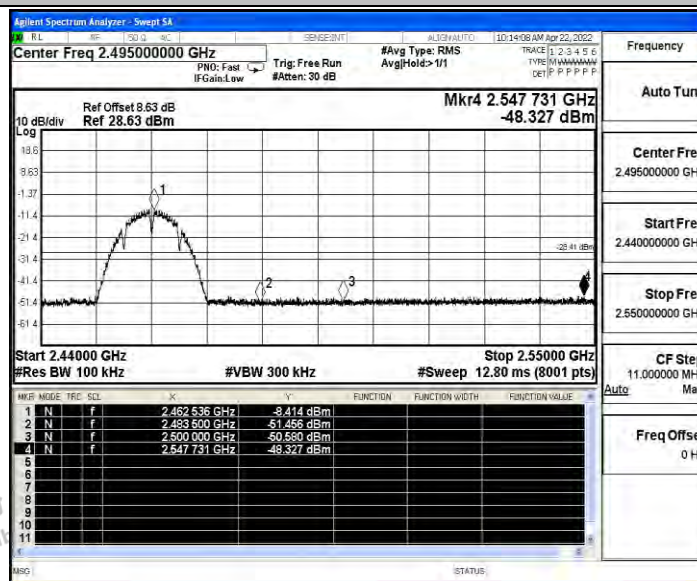


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

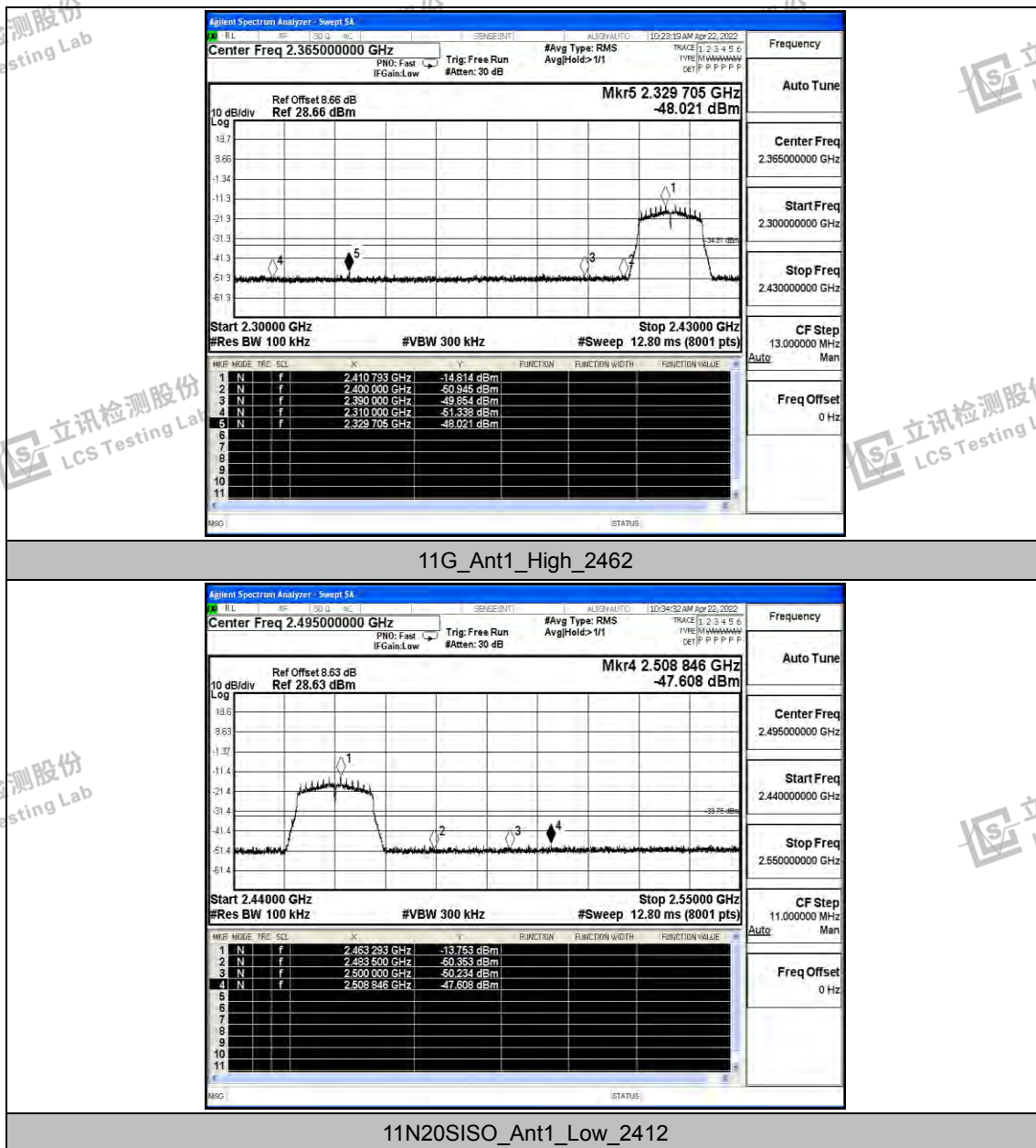


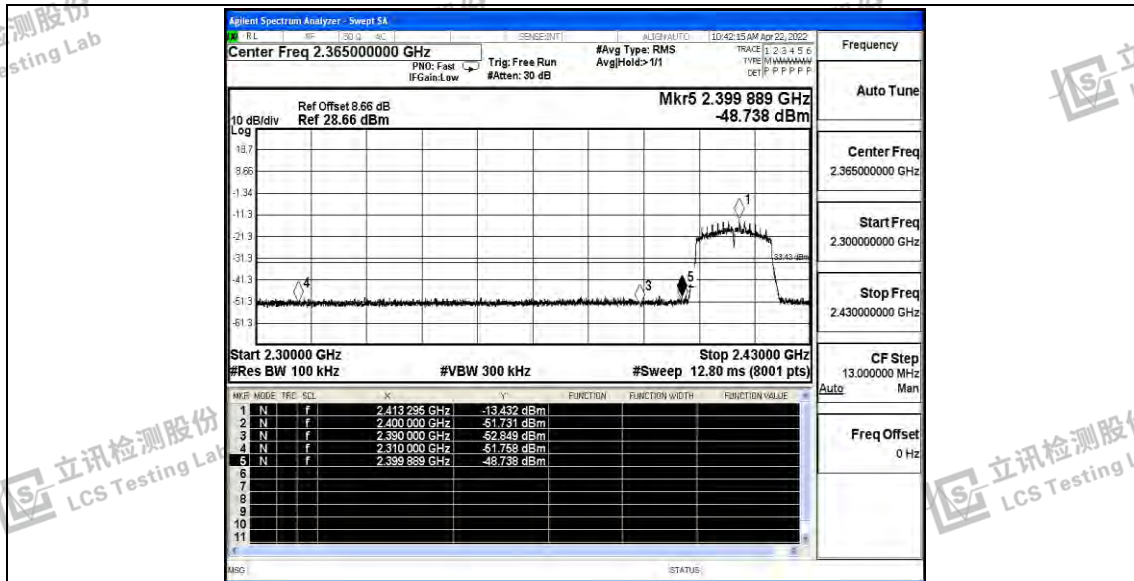
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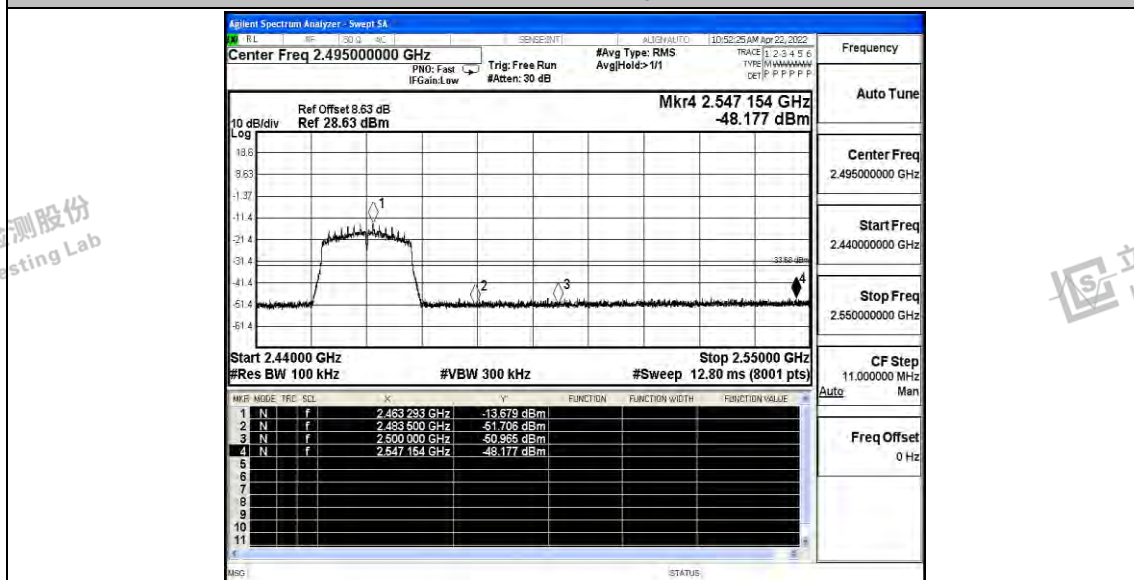
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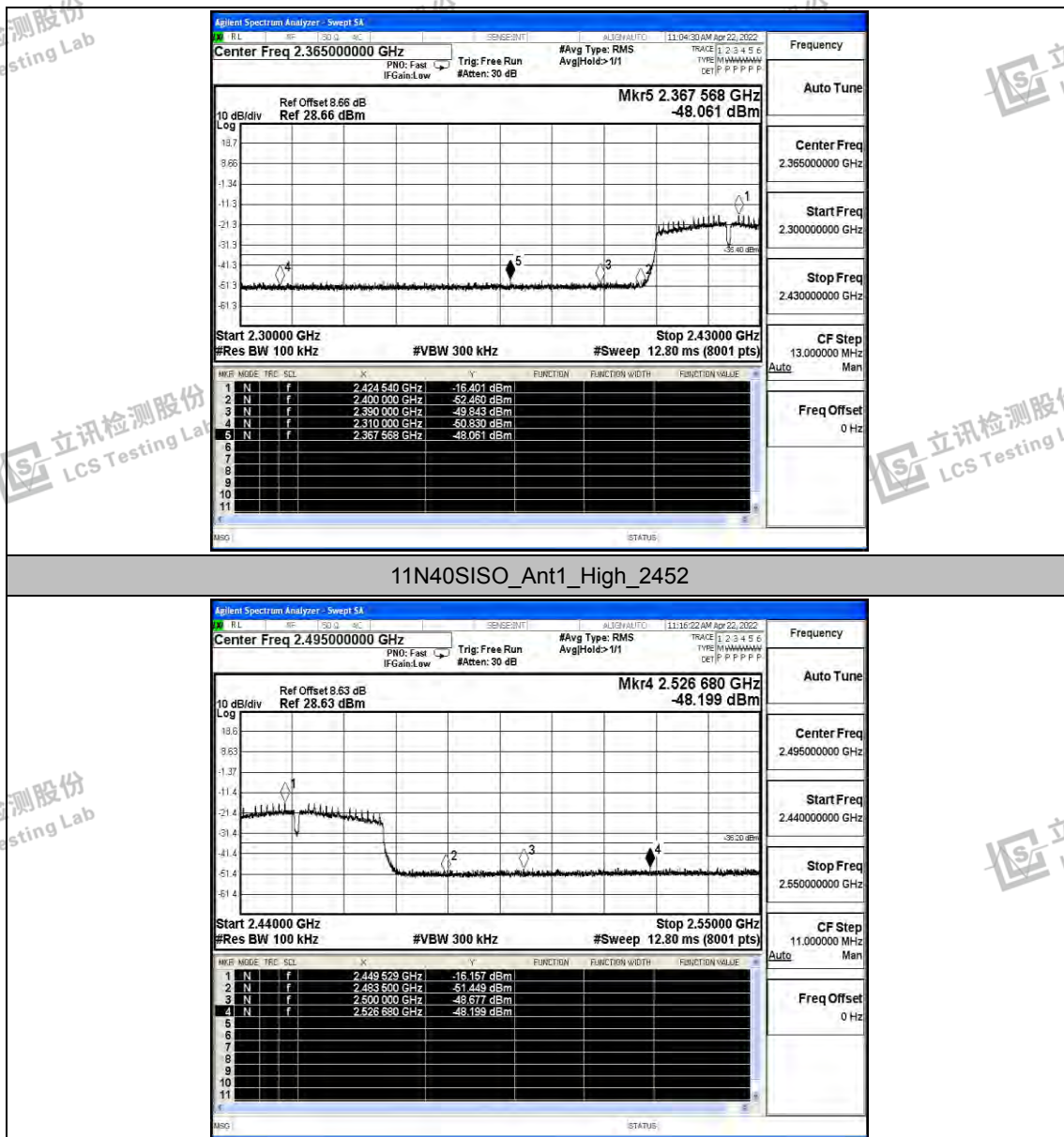


11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422







B.6 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-8.25	-8.25	---	PASS
			30~1000	-8.25	-60.59	≤-28.25	PASS
			1000~26500	-8.25	-46.19	≤-28.25	PASS
		2437	Reference	-8.25	-8.25	---	PASS
			30~1000	-8.25	-60.35	≤-28.25	PASS
			1000~26500	-8.25	-45.8	≤-28.25	PASS
		2462	Reference	-8.28	-8.28	---	PASS
			30~1000	-8.28	-60.65	≤-28.28	PASS
			1000~26500	-8.28	-46.43	≤-28.28	PASS
11G	Ant1	2412	Reference	-13.44	-13.44	---	PASS
			30~1000	-13.44	-59.45	≤-33.44	PASS
			1000~26500	-13.44	-46.03	≤-33.44	PASS
		2437	Reference	-14.27	-14.27	---	PASS
			30~1000	-14.27	-60.68	≤-34.27	PASS
			1000~26500	-14.27	-46.05	≤-34.27	PASS
		2462	Reference	-13.78	-13.78	---	PASS
			30~1000	-13.78	-60.62	≤-33.78	PASS
			1000~26500	-13.78	-45.66	≤-33.78	PASS
11N20SISO	Ant1	2412	Reference	-13.85	-13.85	---	PASS
			30~1000	-13.85	-60.39	≤-33.85	PASS
			1000~26500	-13.85	-46.15	≤-33.85	PASS
		2437	Reference	-13.42	-13.42	---	PASS
			30~1000	-13.42	-60.99	≤-33.42	PASS
			1000~26500	-13.42	-46.08	≤-33.42	PASS
		2462	Reference	-13.62	-13.62	---	PASS
			30~1000	-13.62	-60.42	≤-33.62	PASS
			1000~26500	-13.62	-44.48	≤-33.62	PASS
11N40SISO	Ant1	2422	Reference	-16.48	-16.48	---	PASS
			30~1000	-16.48	-60.44	≤-36.48	PASS
			1000~26500	-16.48	-46.22	≤-36.48	PASS
		2437	Reference	-16.12	-16.12	---	PASS
			30~1000	-16.12	-60.4	≤-36.12	PASS
			1000~26500	-16.12	-46.67	≤-36.12	PASS
		2452	Reference	-16.20	-16.20	---	PASS
			30~1000	-16.20	-60.07	≤-36.2	PASS



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			1000~26500	-16.20	-46.11	≤-36.2	PASS
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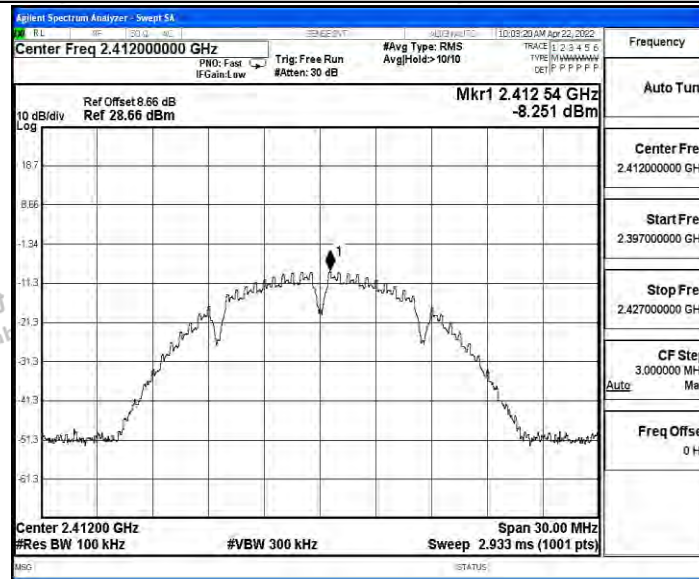


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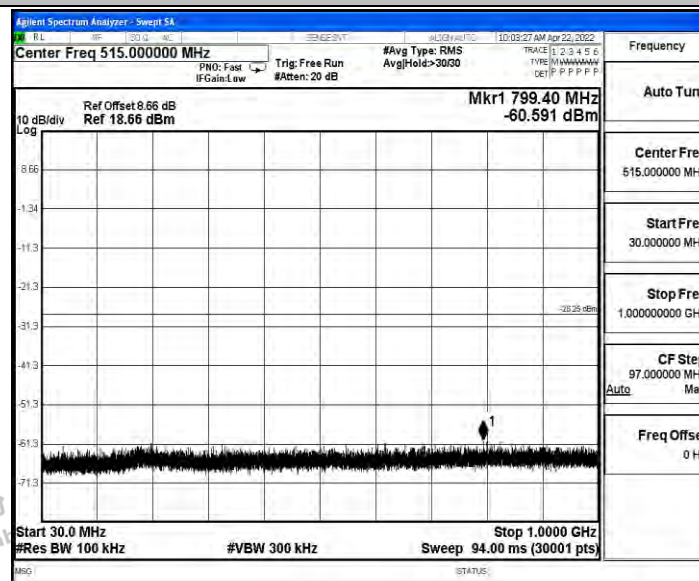


Test Graphs

11B_Ant1_2412_0~Reference

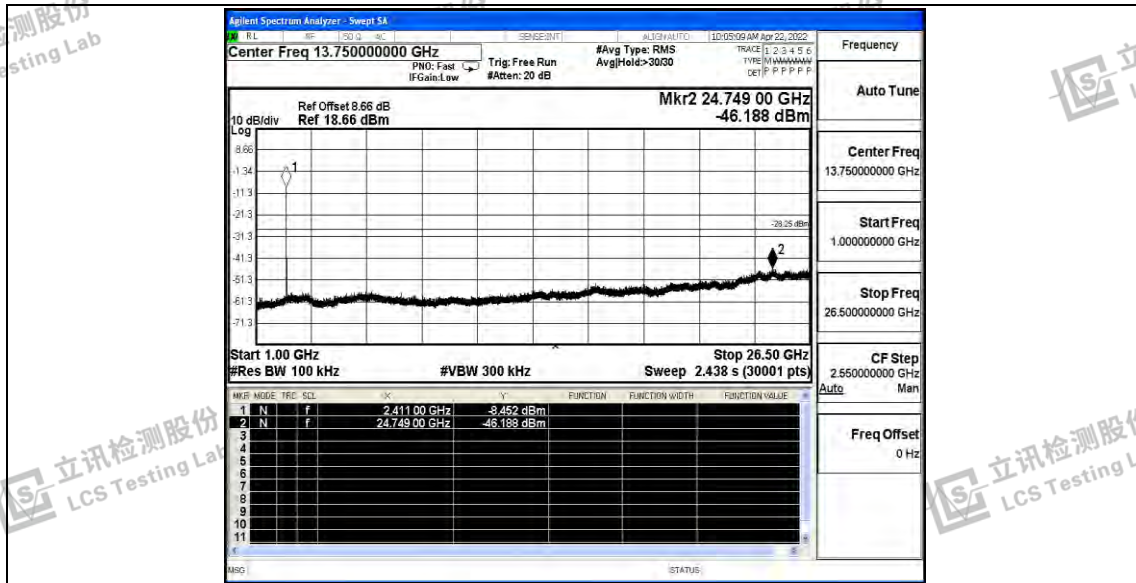


11B_Ant1_2412_30~1000

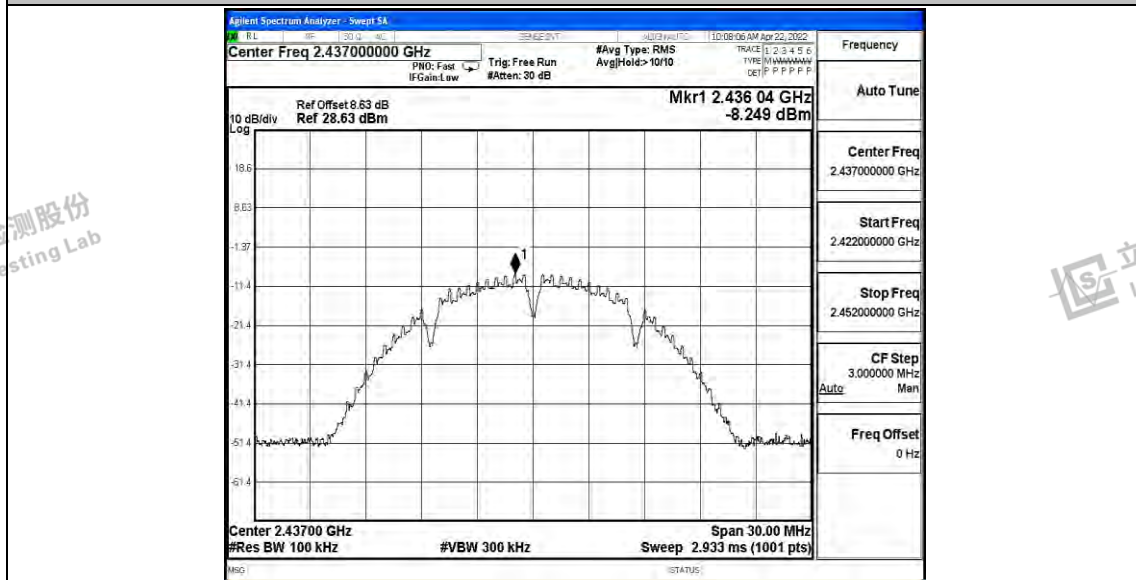


11B_Ant1_2412_1000~26500



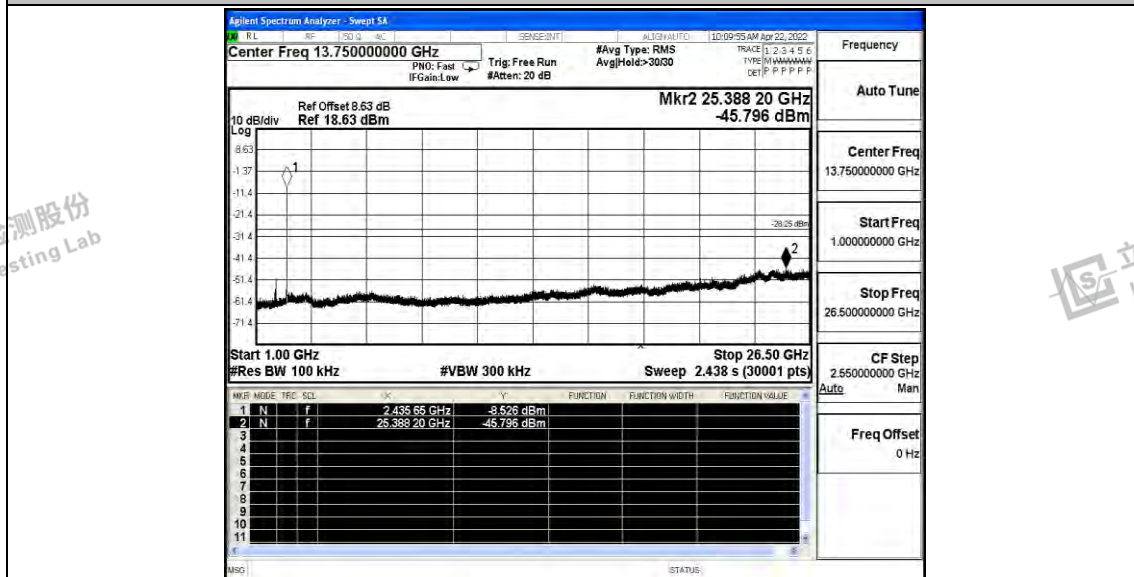
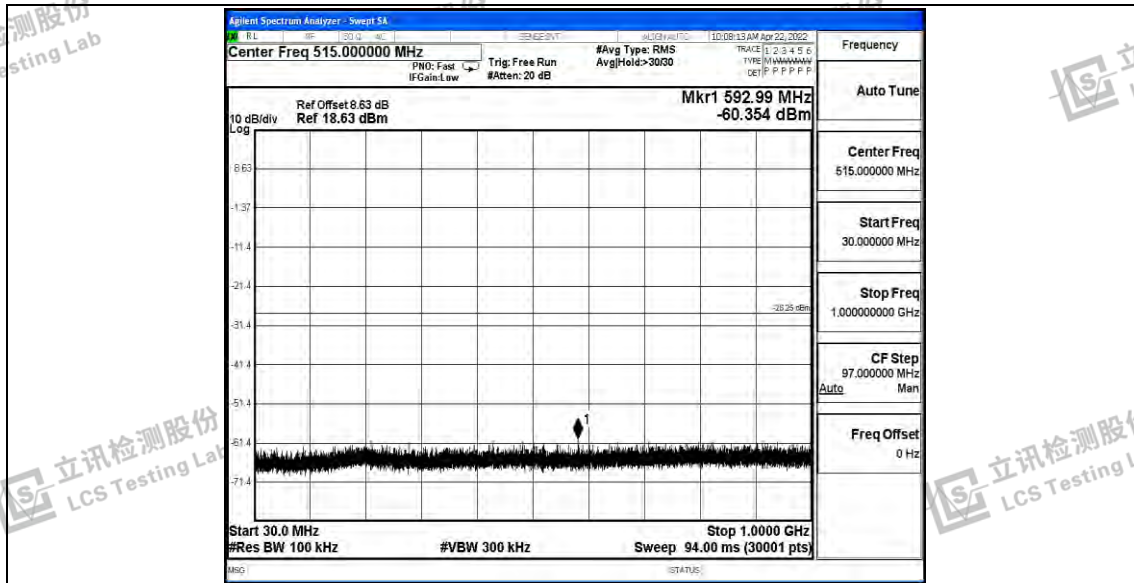


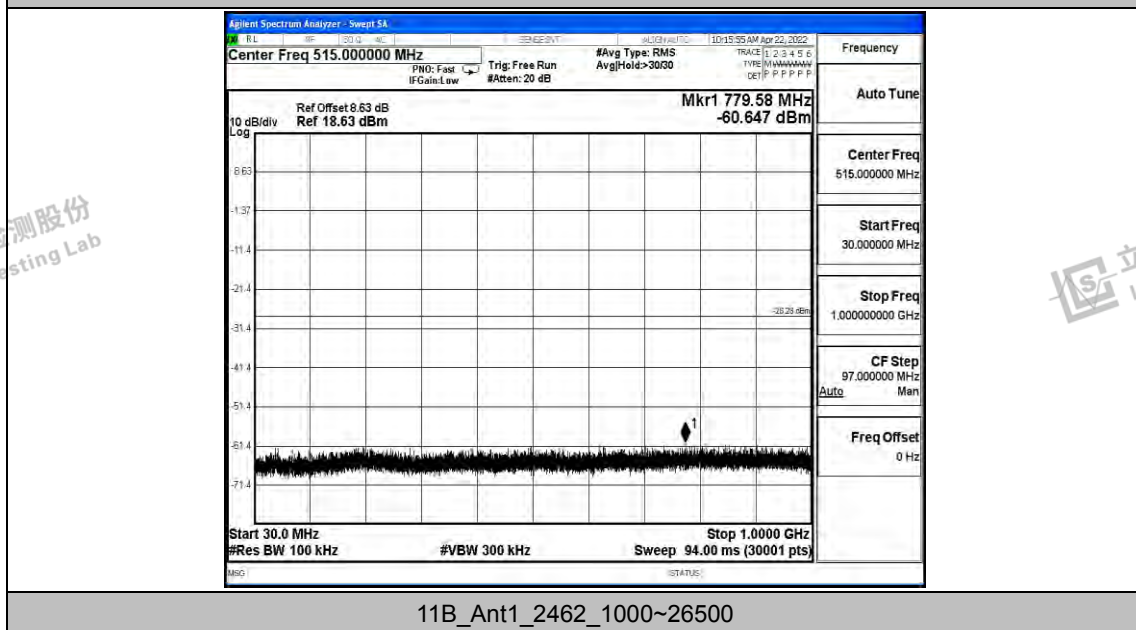
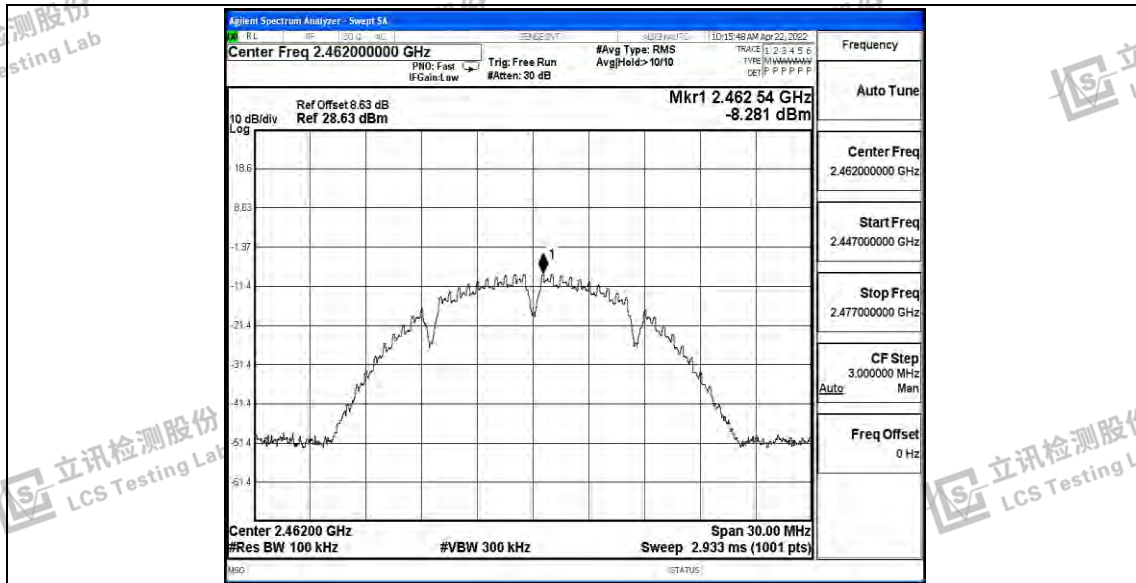
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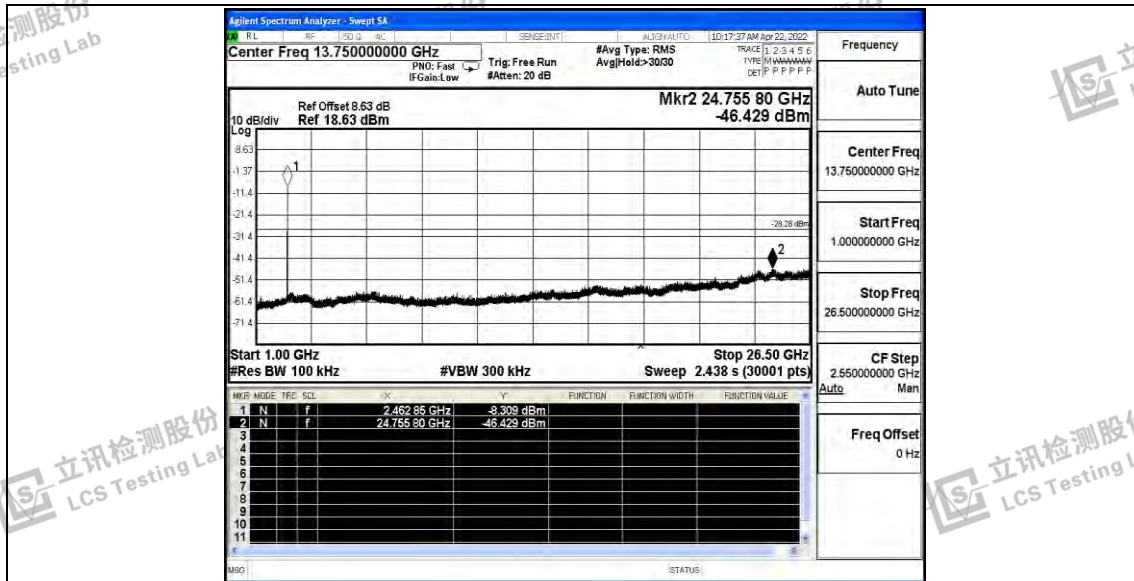


11B_Ant1_2437_30~1000

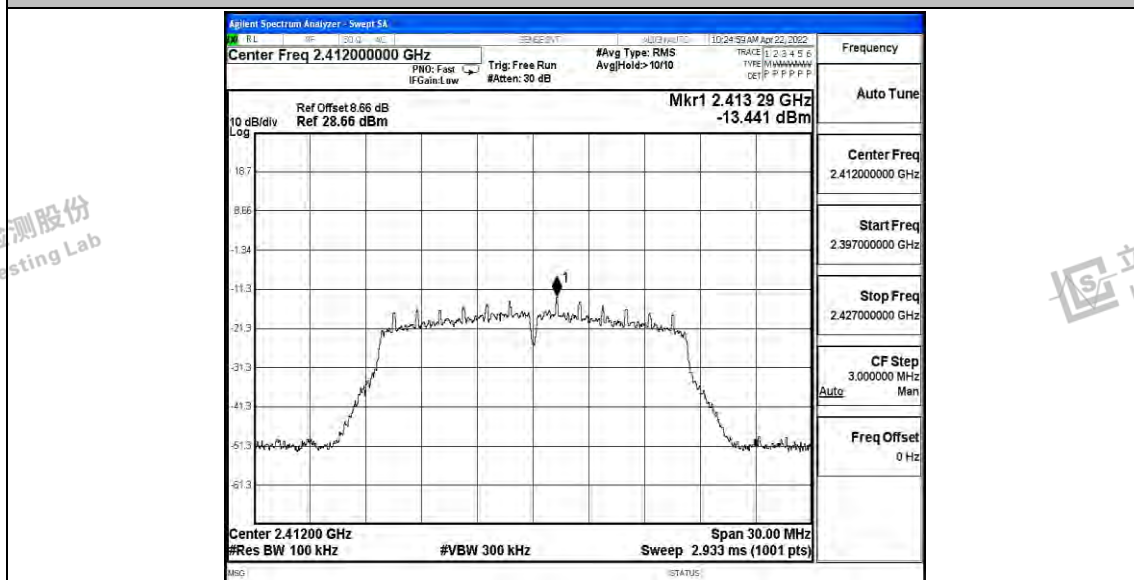






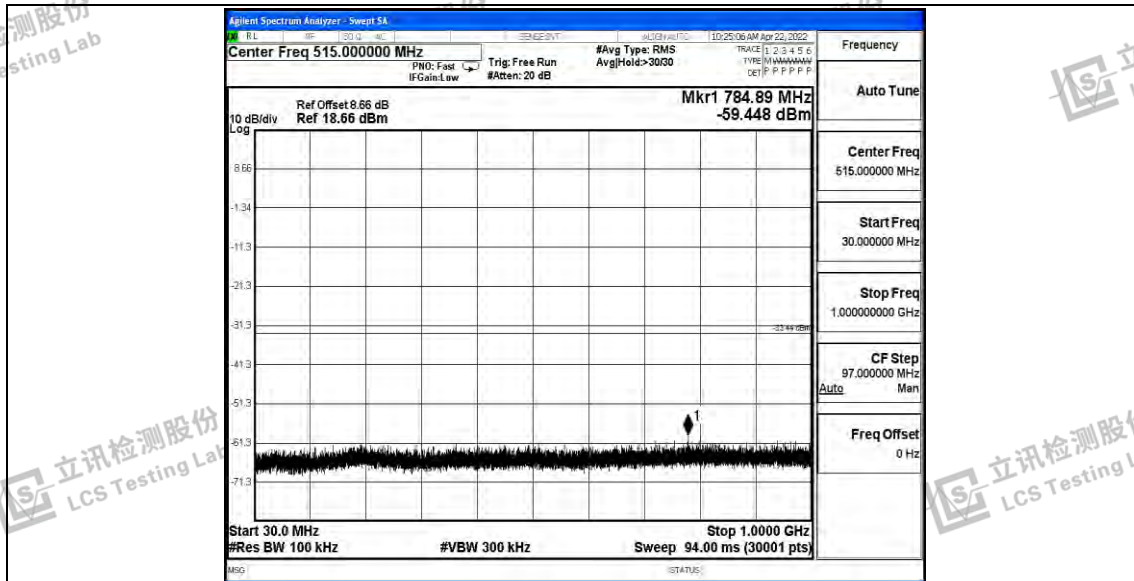


11G_Ant1_2412_0~Reference

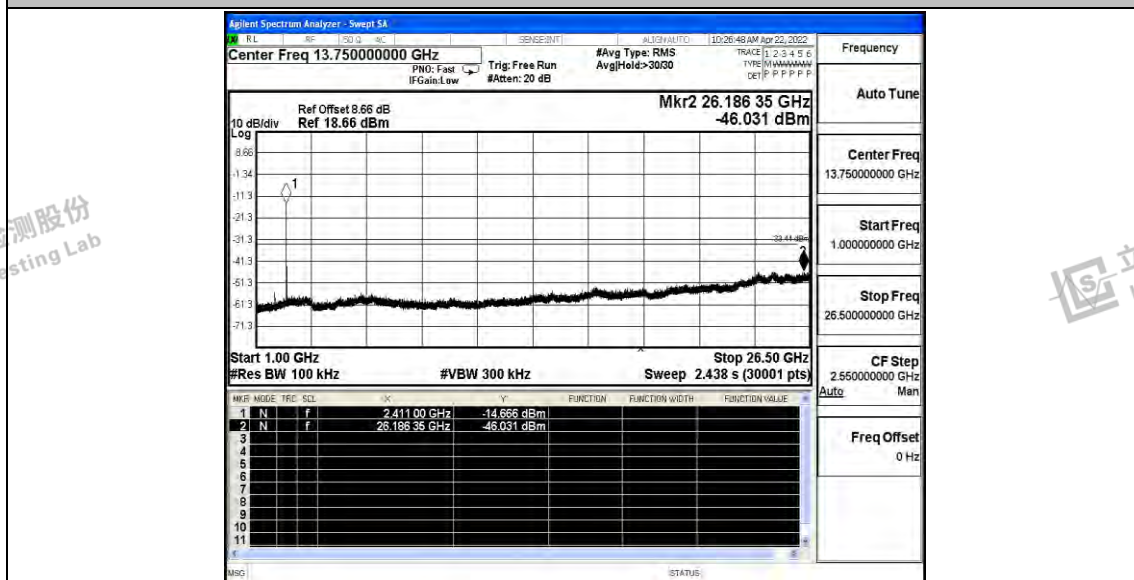


11G_Ant1_2412_30~1000



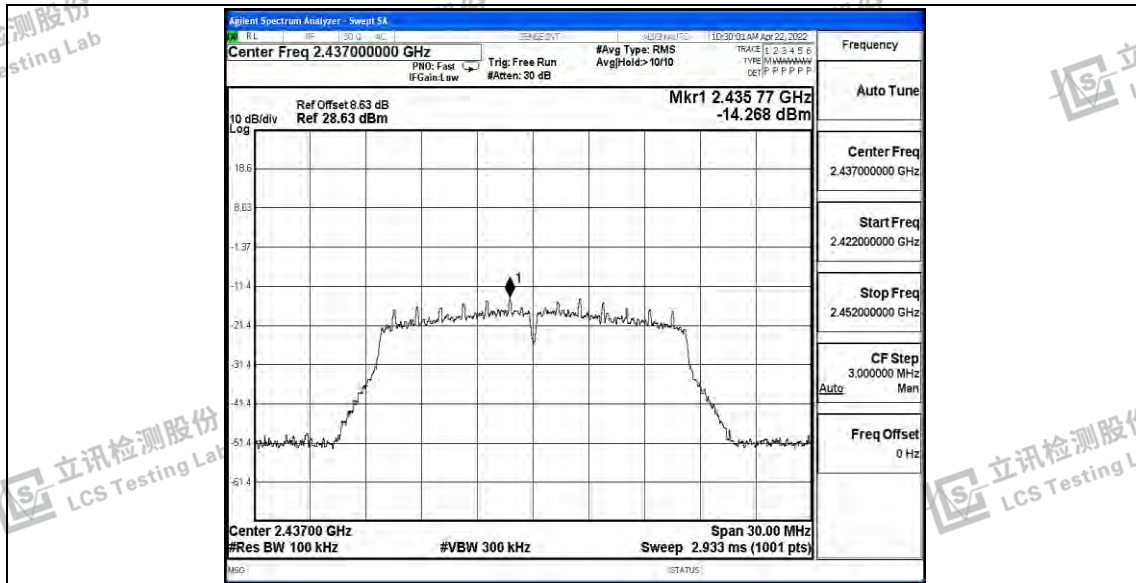


11G_Ant1_2412_1000~26500

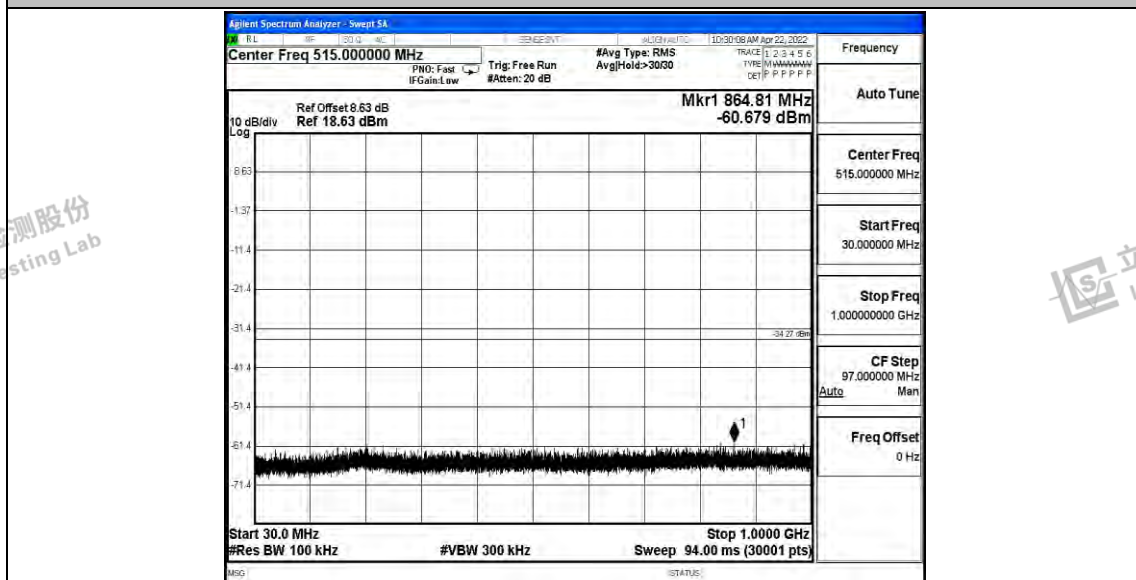


11G_Ant1_2437_0~Reference



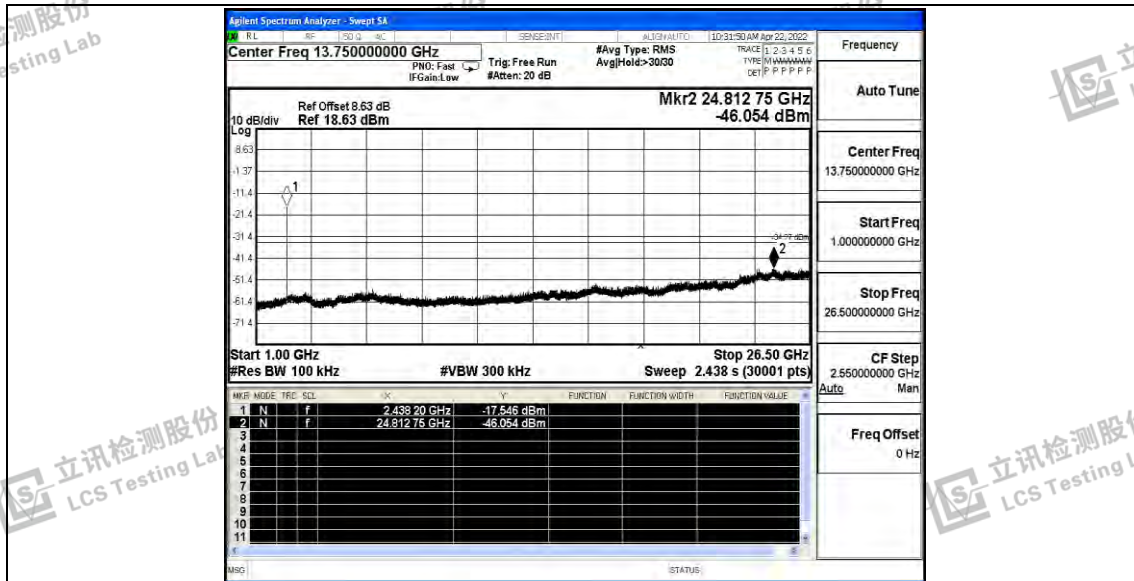


11G_Ant1_2437_30~1000

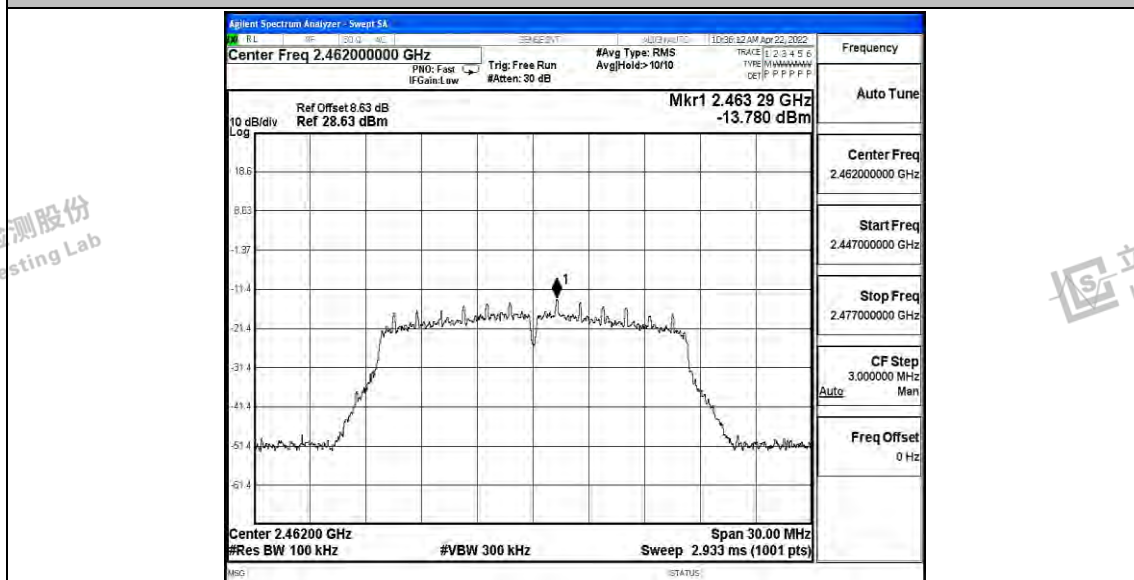


11G_Ant1_2437_1000~26500



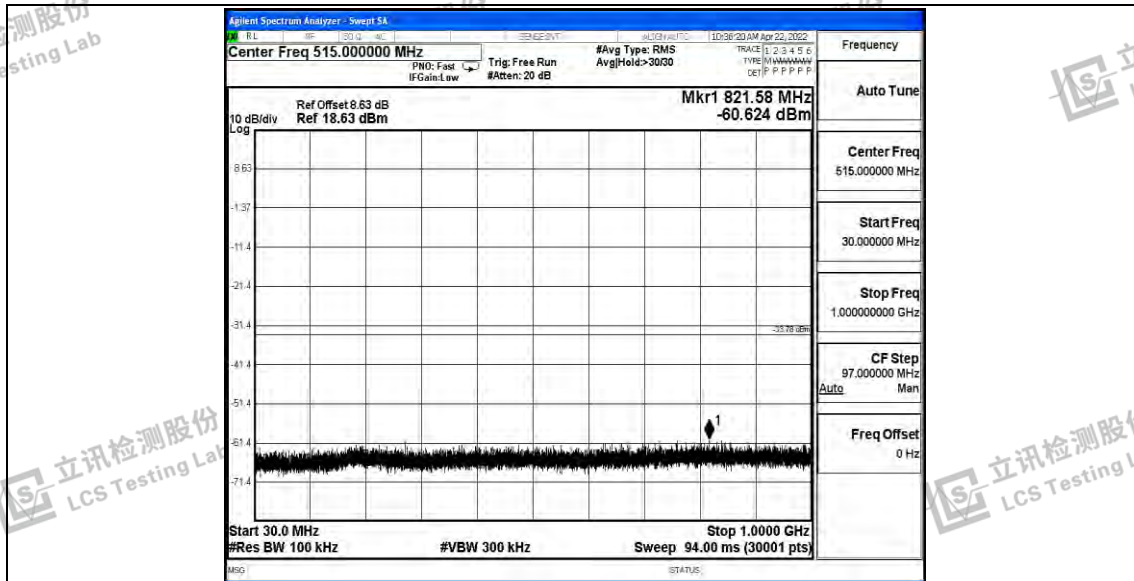


11G_Ant1_2462_0~Reference

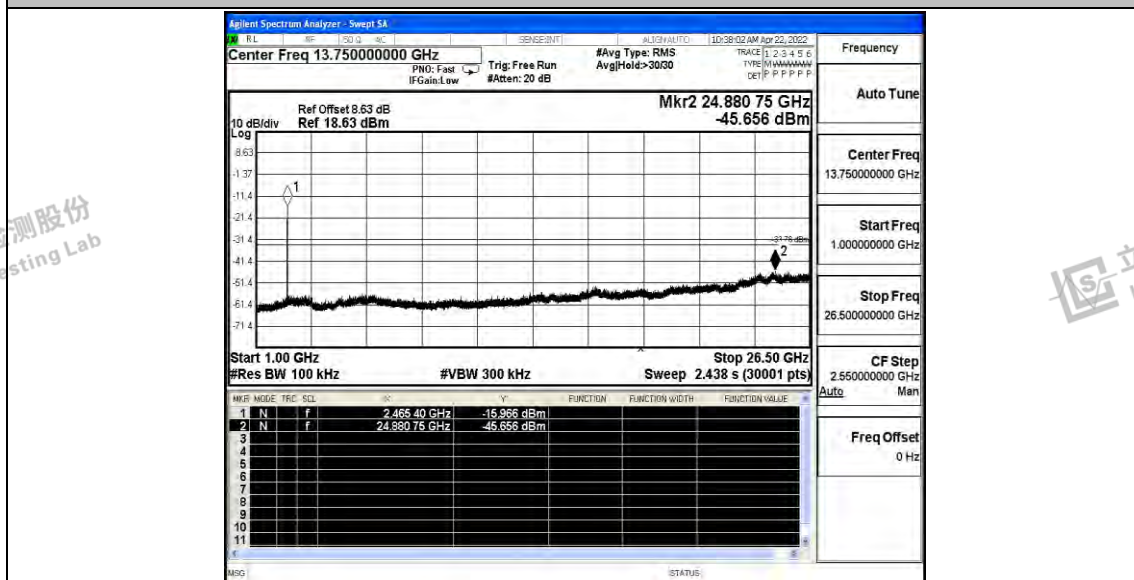


11G_Ant1_2462_30~1000



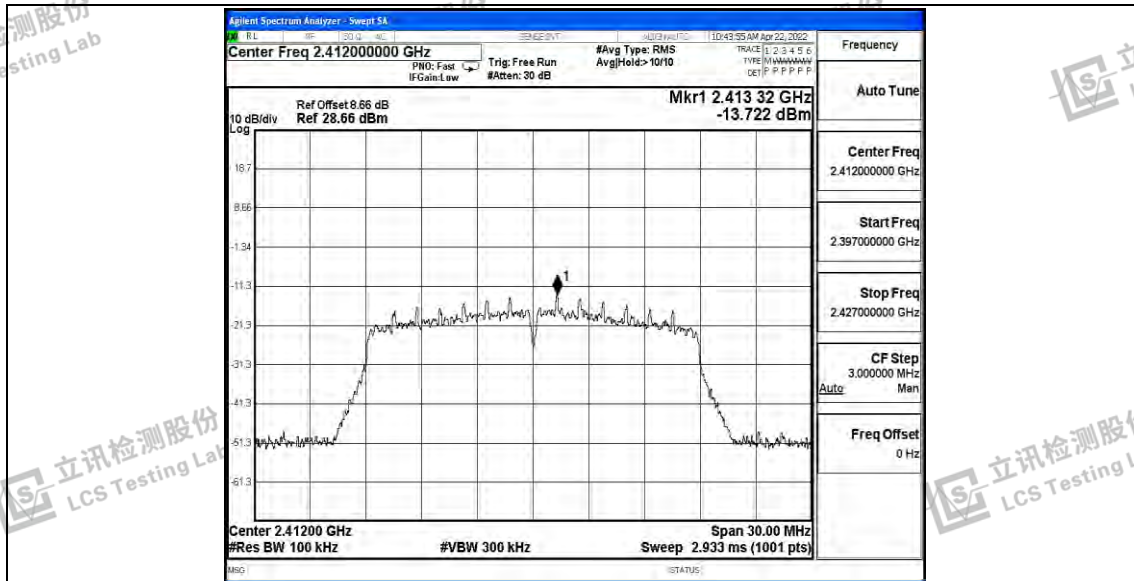


11G_Ant1_2462_1000~26500

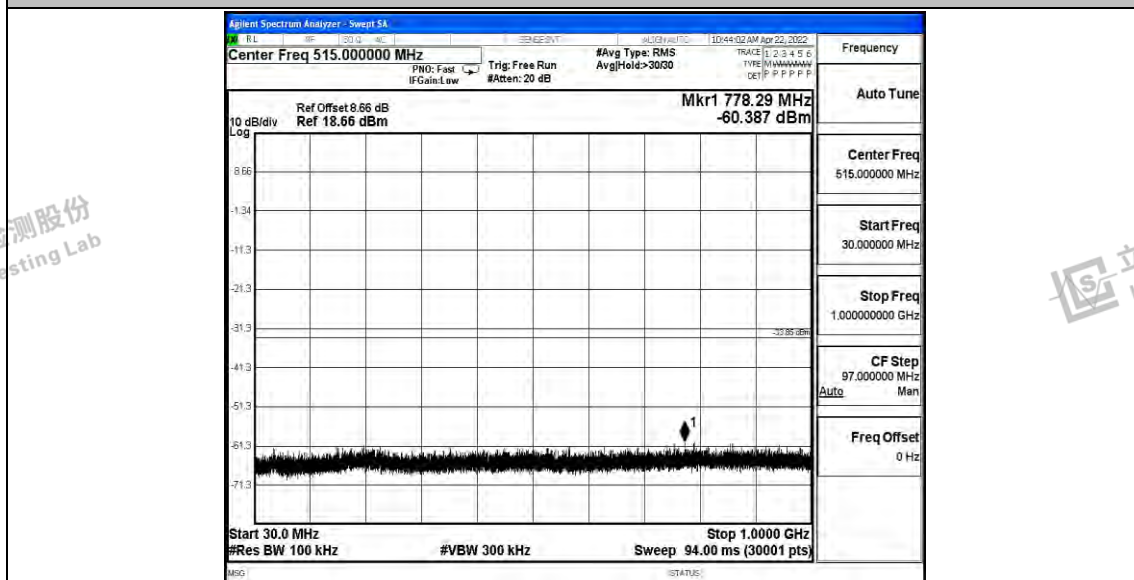


11N20SISO_Ant1_2412_0~Reference



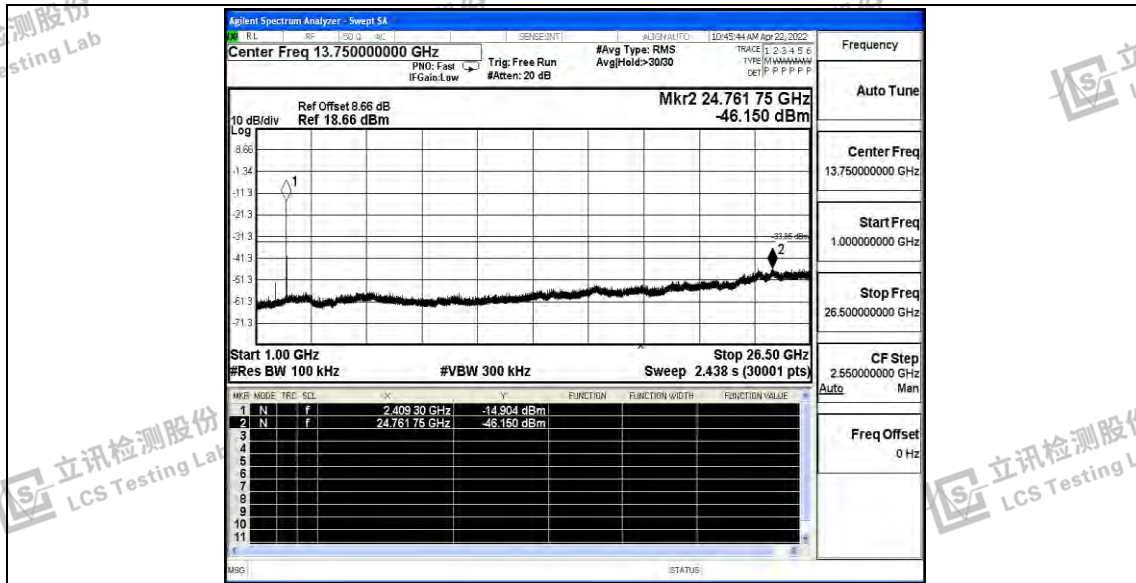


11N20SISO_Ant1_2412_30~1000

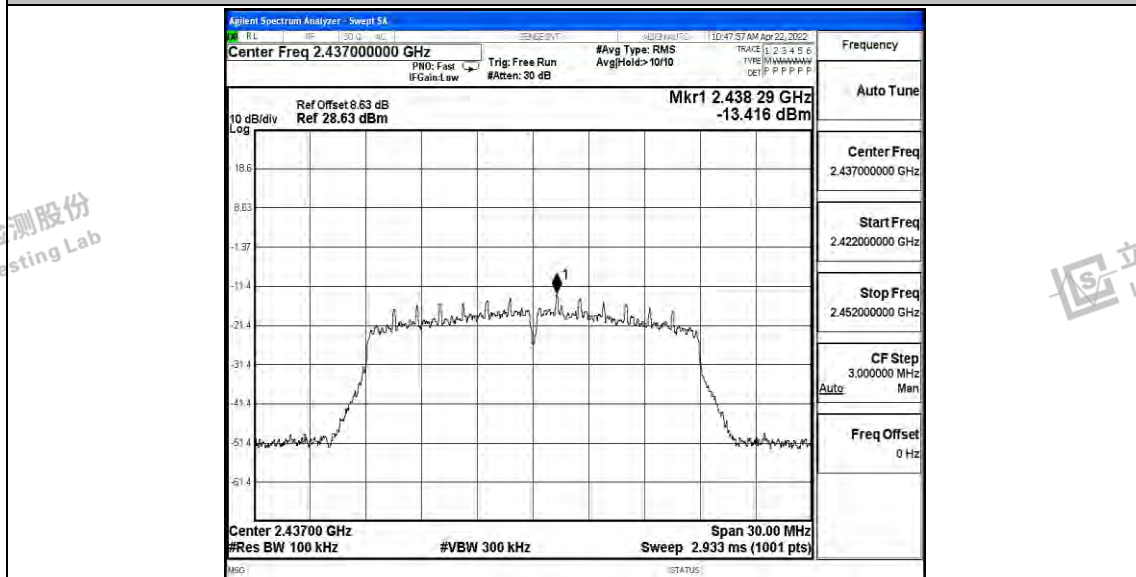


11N20SISO_Ant1_2412_1000~26500



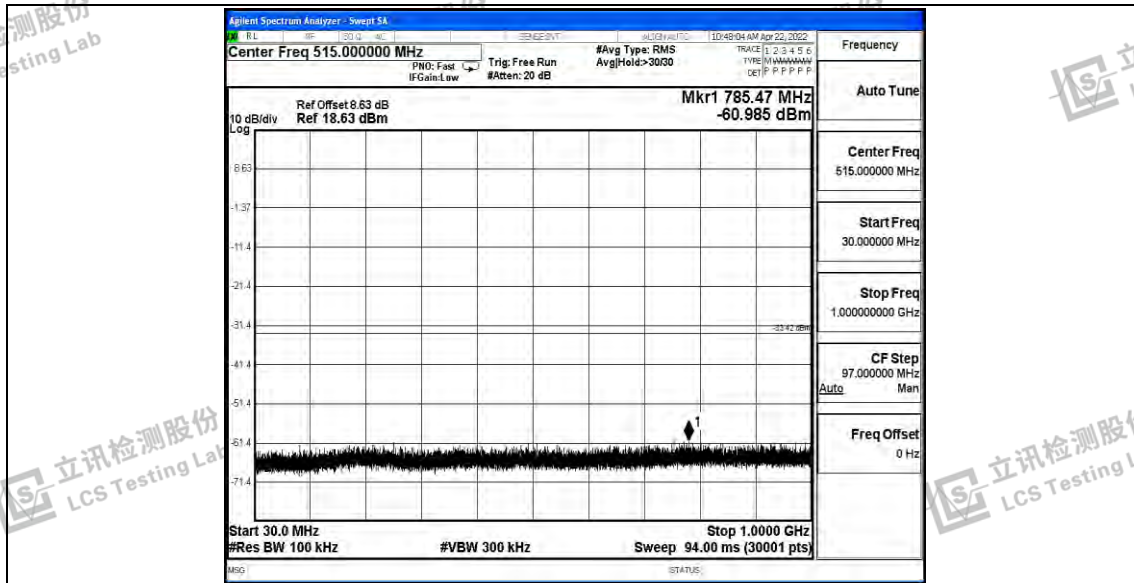


11N20SISO_Ant1_2437_0~Reference

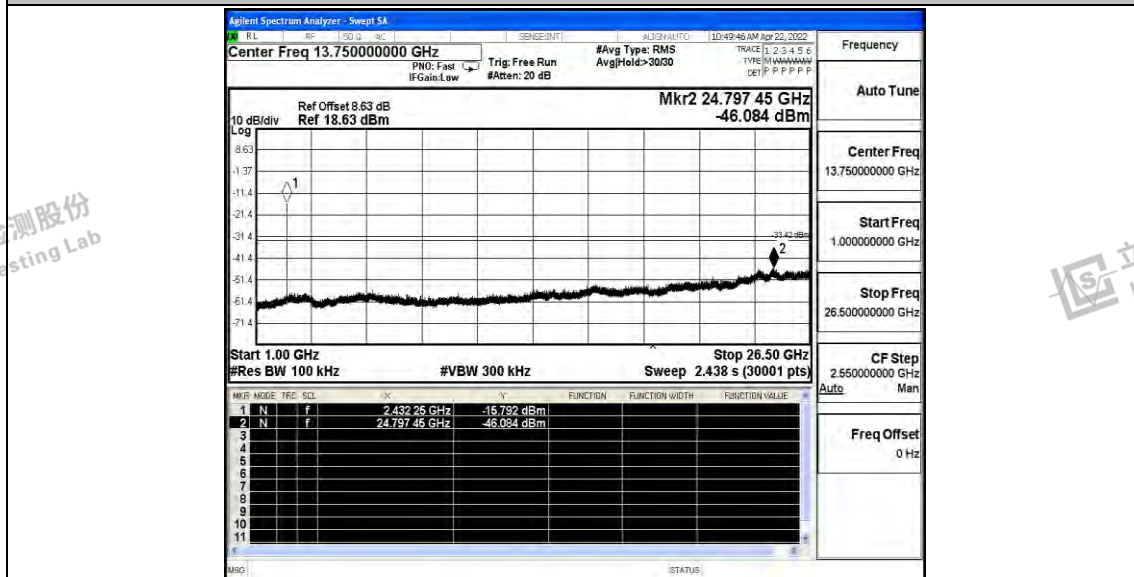


11N20SISO_Ant1_2437_30~1000



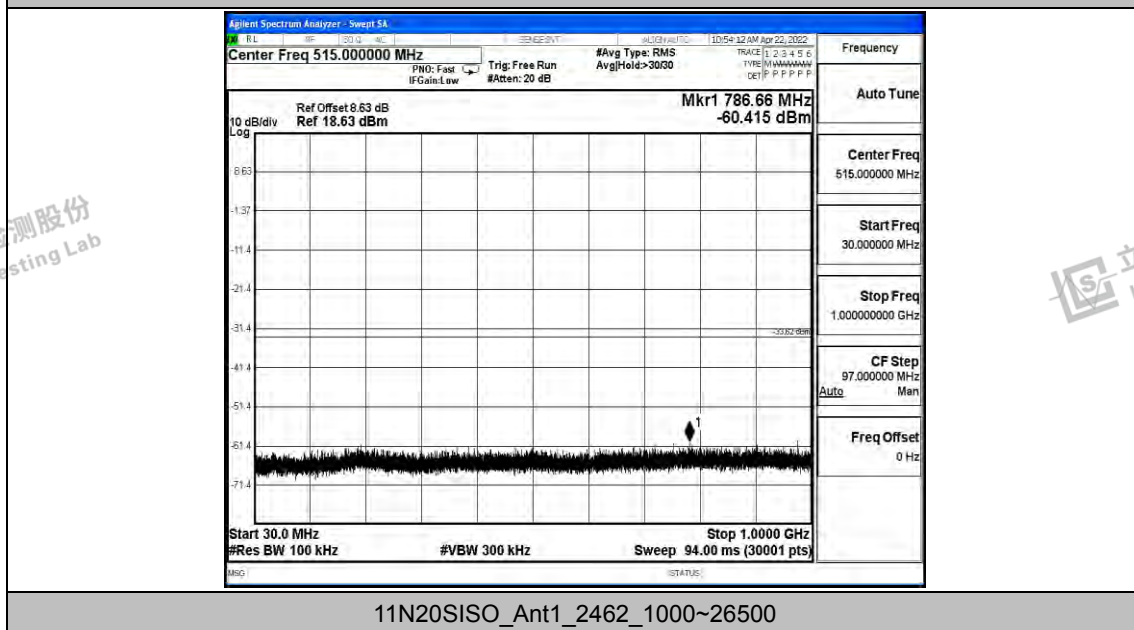
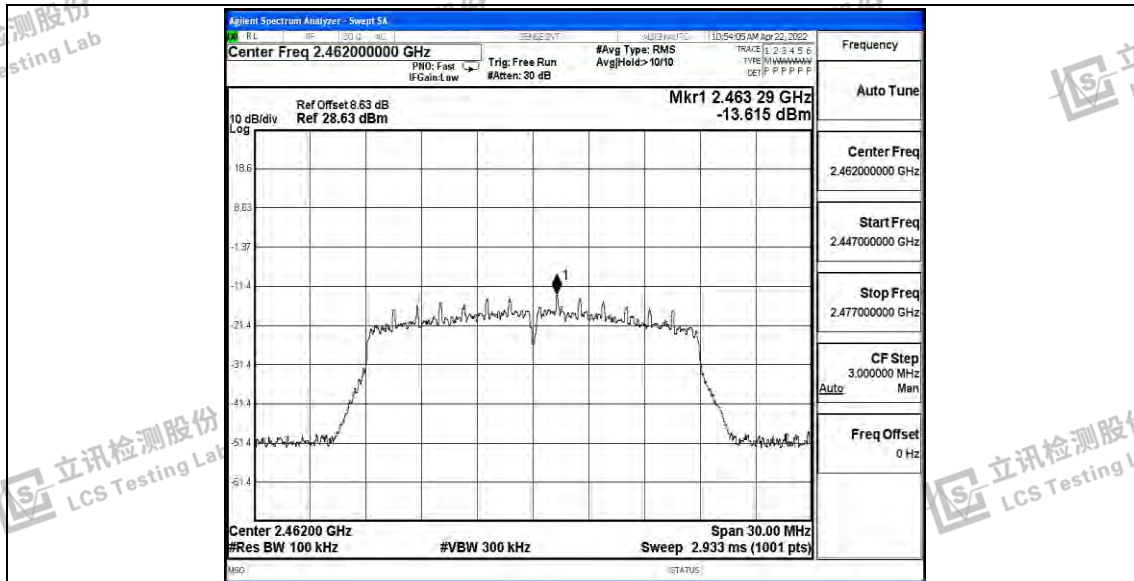


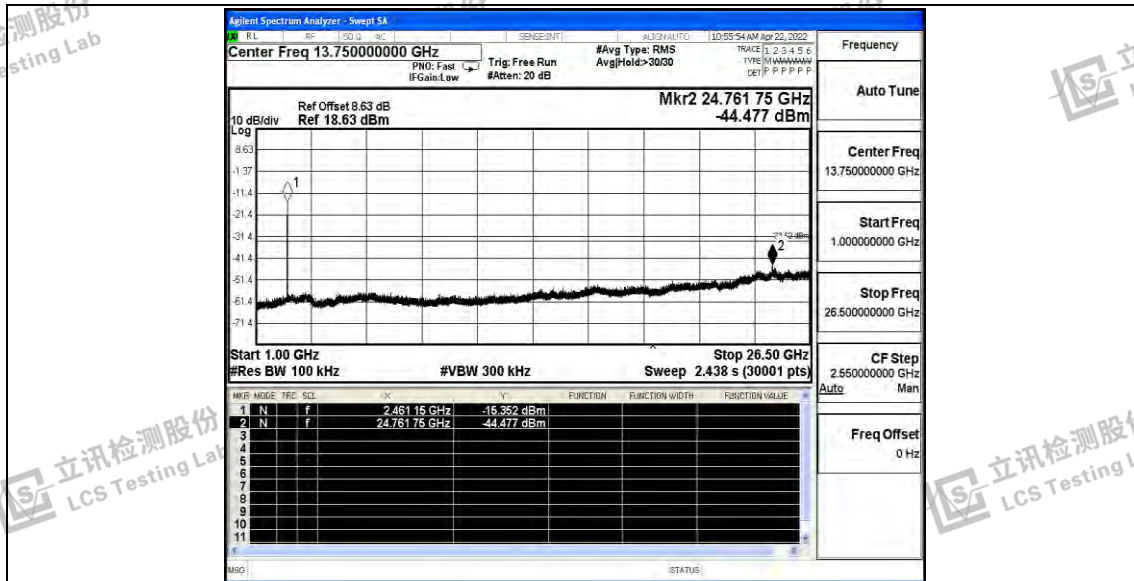
11N20SISO_Ant1_2437_1000~26500



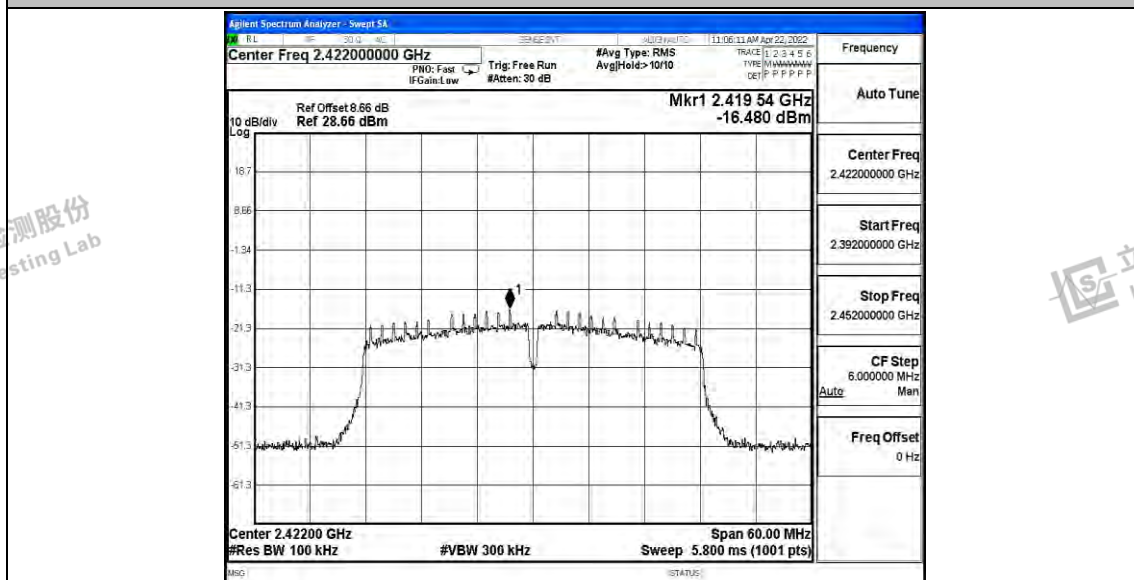
11N20SISO_Ant1_2462_0~Reference





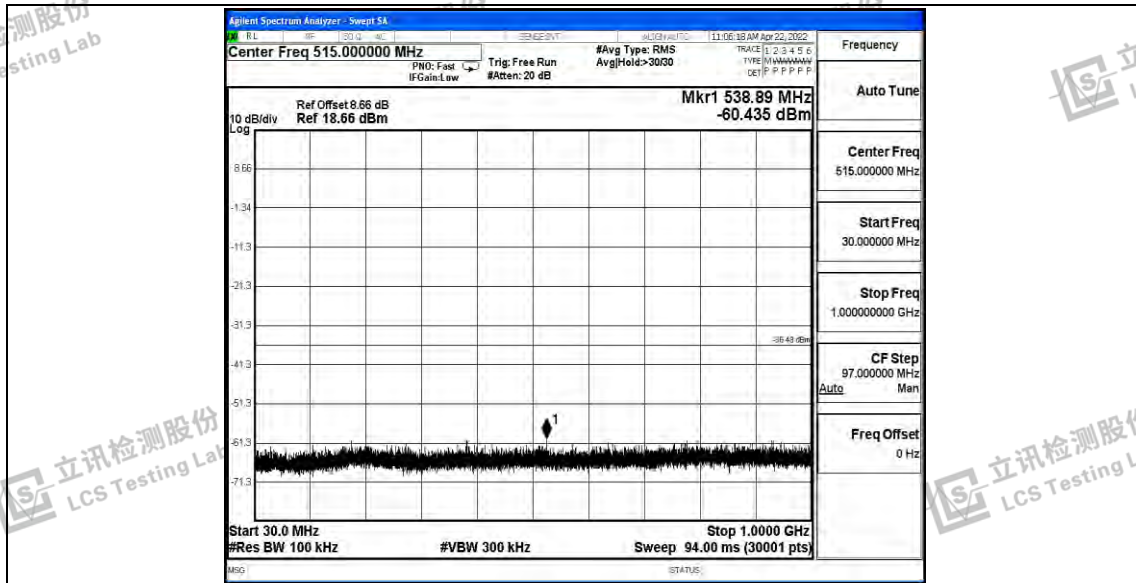


11N40SISO_Ant1_2422_0~Reference

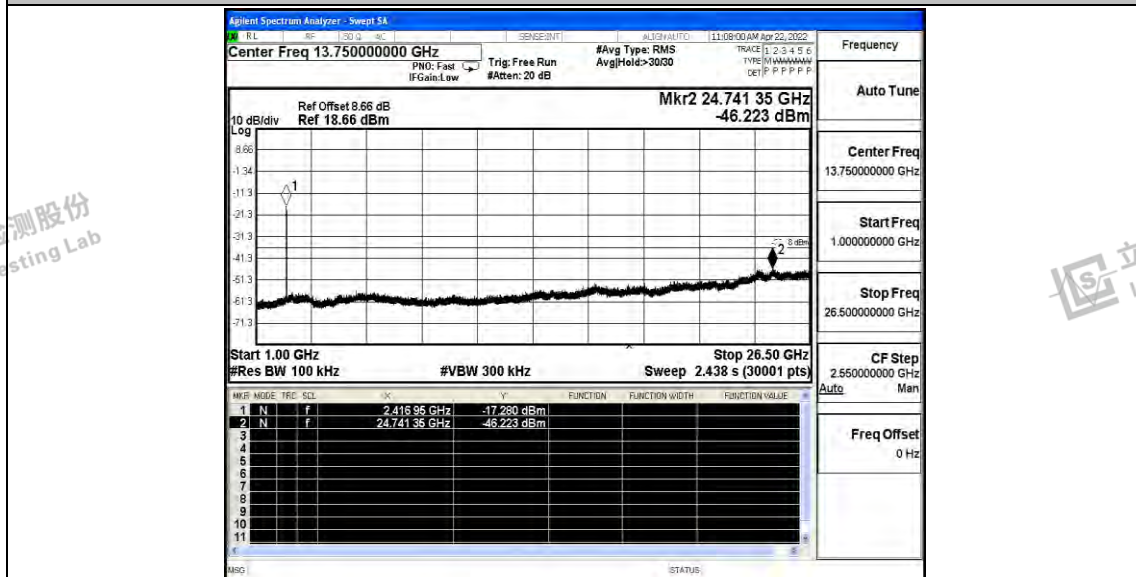


11N40SISO_Ant1_2422_30~1000



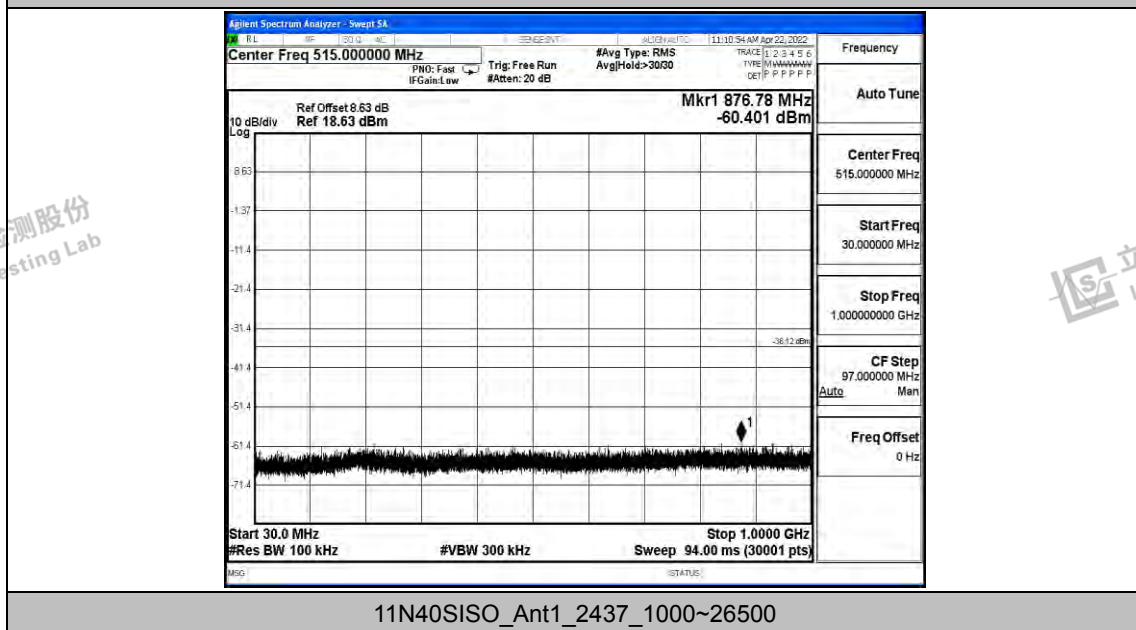
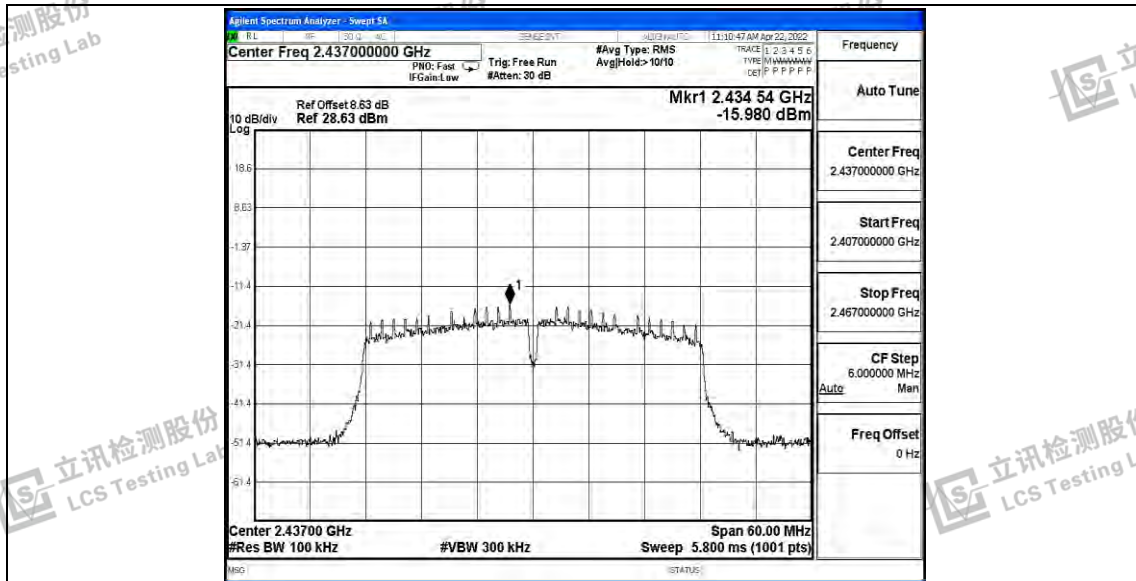


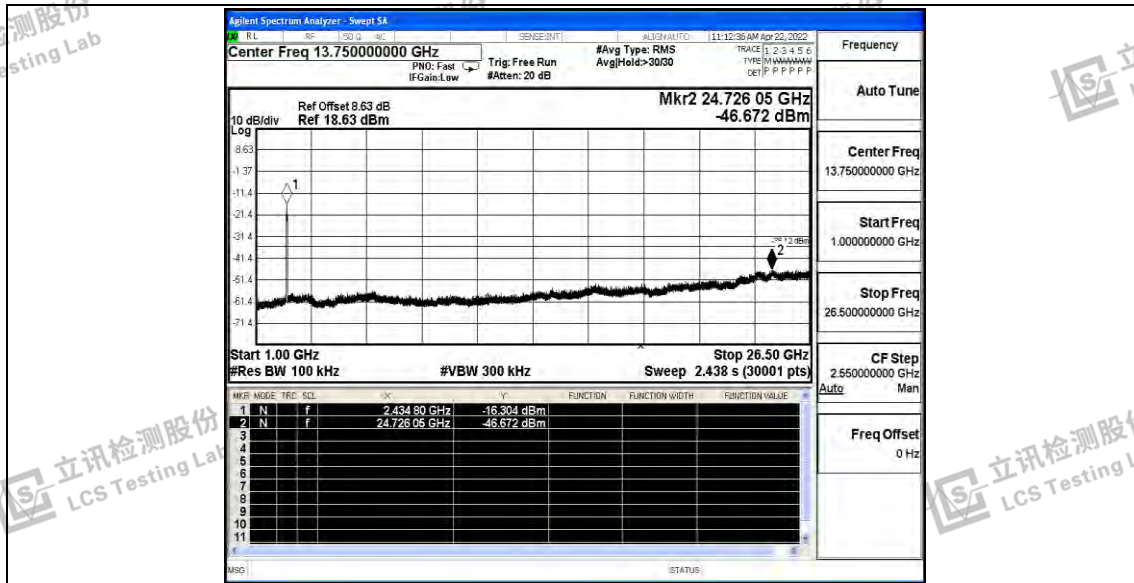
11N40SISO_Ant1_2422_1000~26500



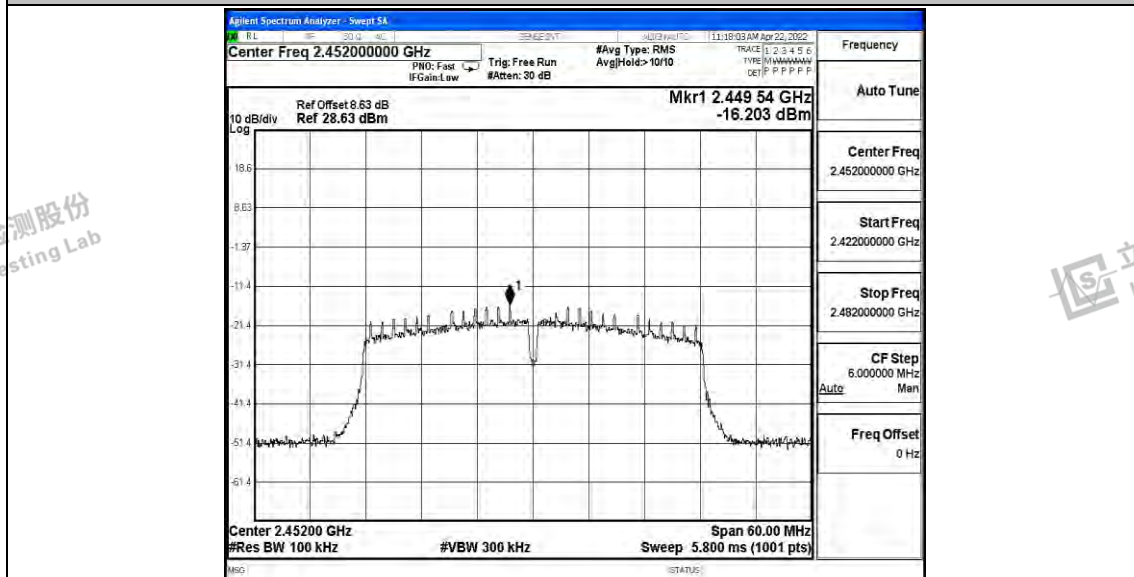
11N40SISO_Ant1_2437_0~Reference





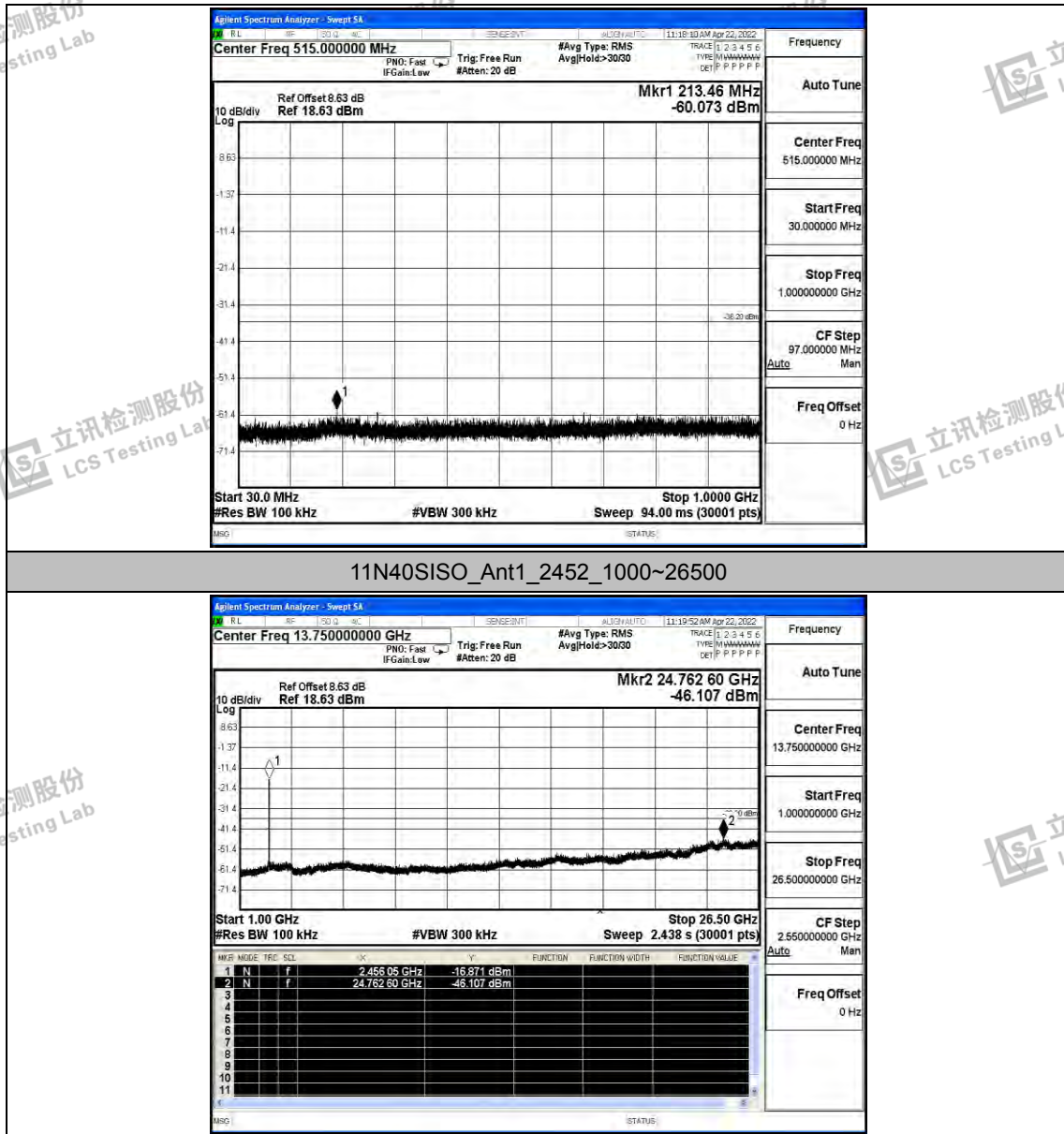


11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000







B.7 Duty Cycle

Test Result

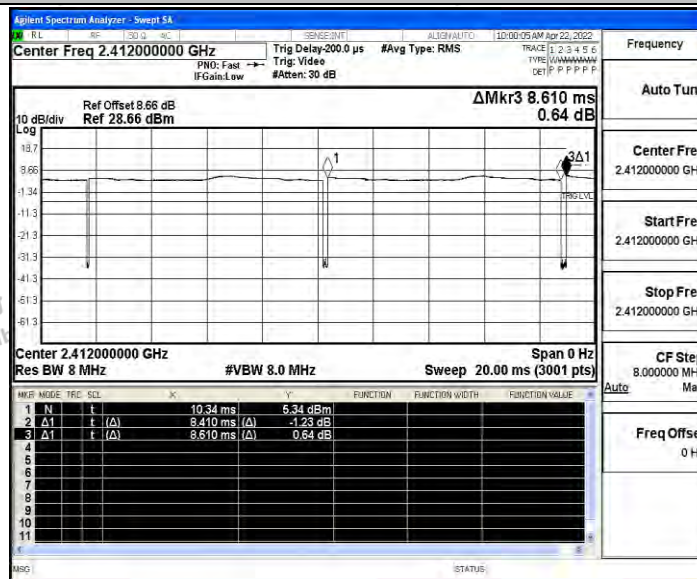
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.41	8.61	97.68	---	---
		2437	8.41	8.49	99.06	---	---
		2462	8.42	8.54	98.59	---	---
11G	Ant1	2412	1.40	1.59	88.05	---	---
		2437	1.40	1.55	90.32	---	---
		2462	1.39	1.57	88.54	---	---
11N20SISO	Ant1	2412	1.31	1.51	86.75	---	---
		2437	1.31	1.46	89.73	---	---
		2462	1.31	1.49	87.92	---	---
11N40SISO	Ant1	2422	0.64	0.85	75.29	---	---
		2437	0.63	0.82	76.83	---	---
		2452	0.63	0.85	74.12	---	---



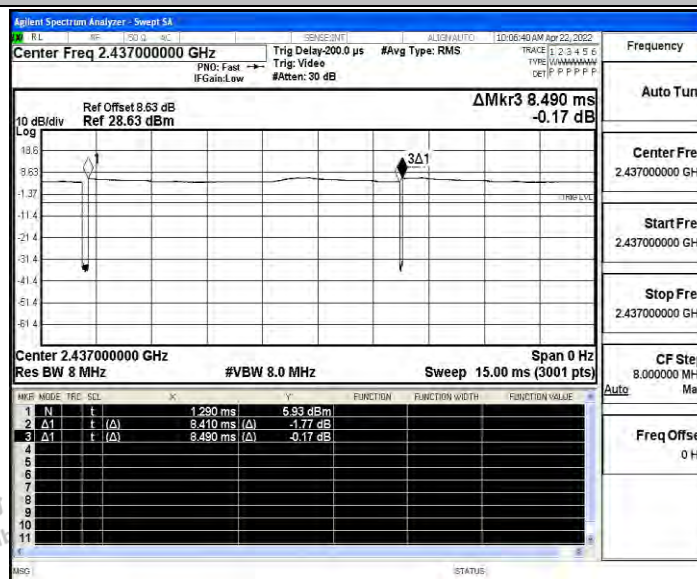


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

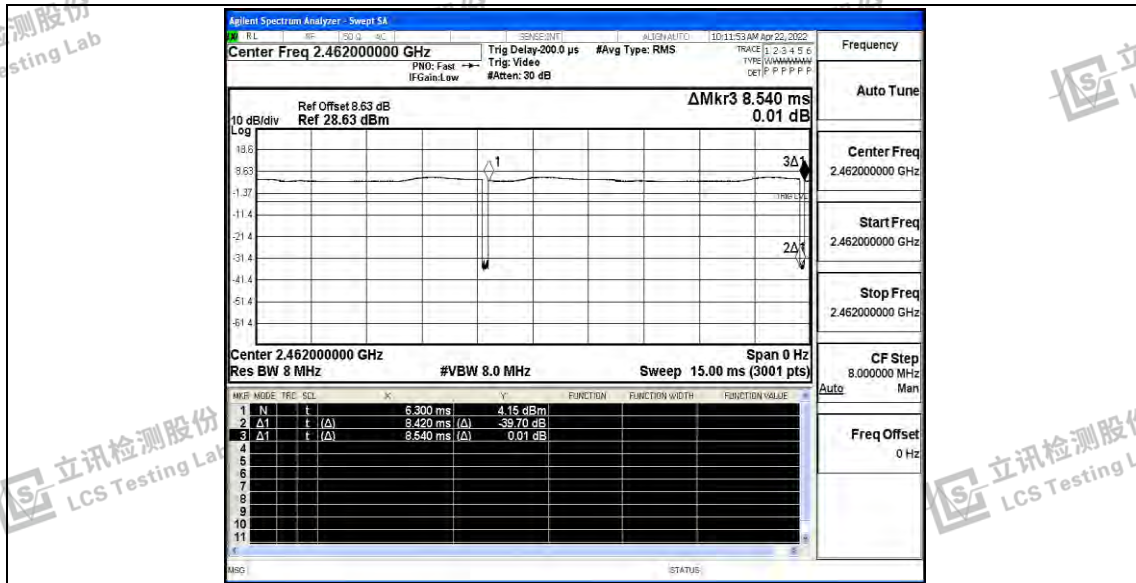


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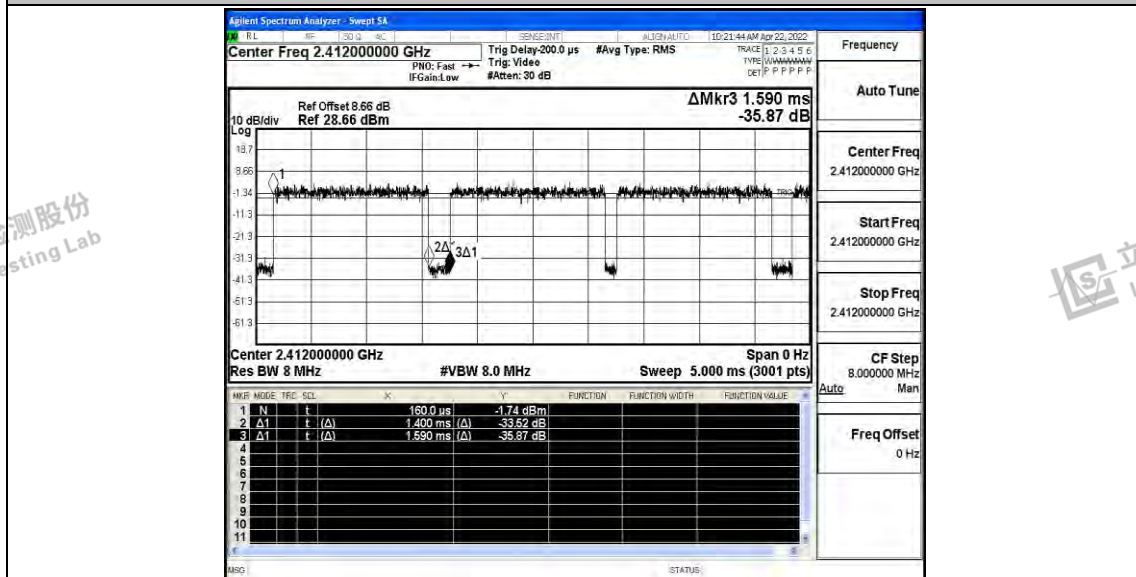
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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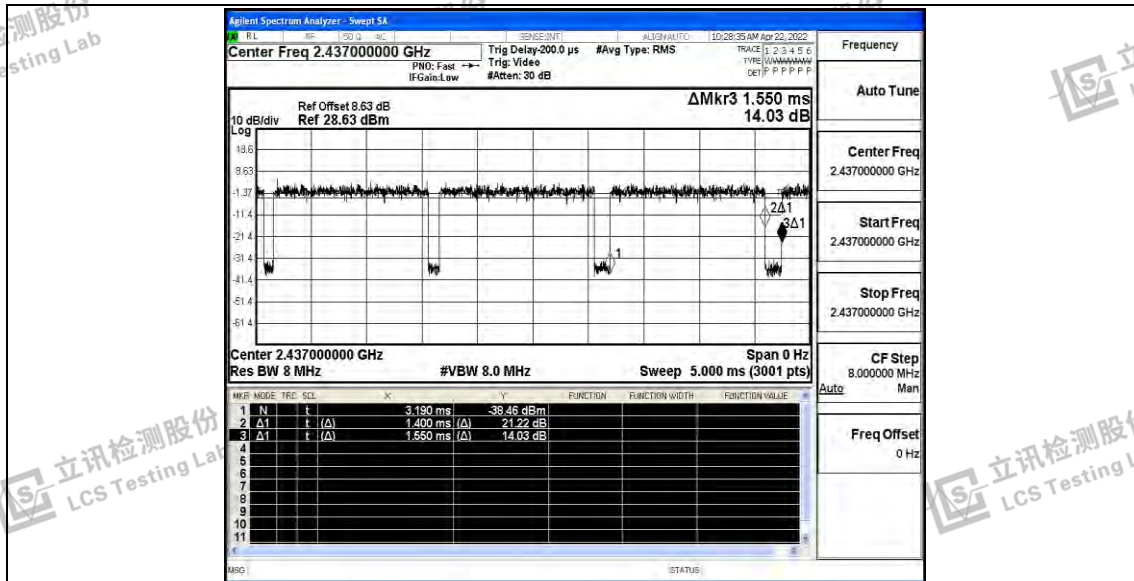


11G_Ant1_2412

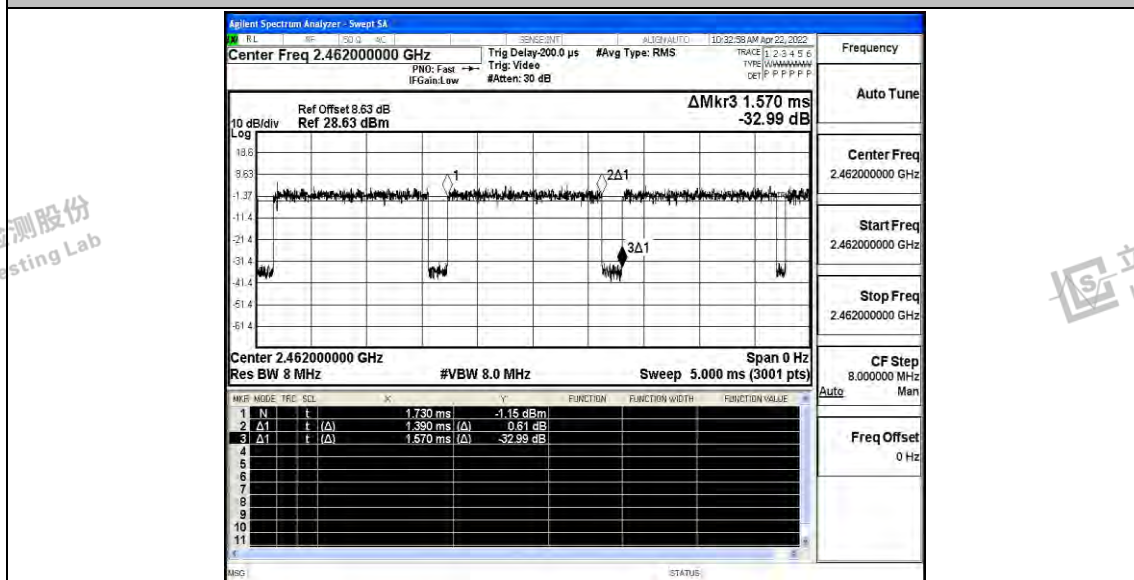


11G_Ant1_2437





11G_Ant1_2462



11N20SISO_Ant1_2412

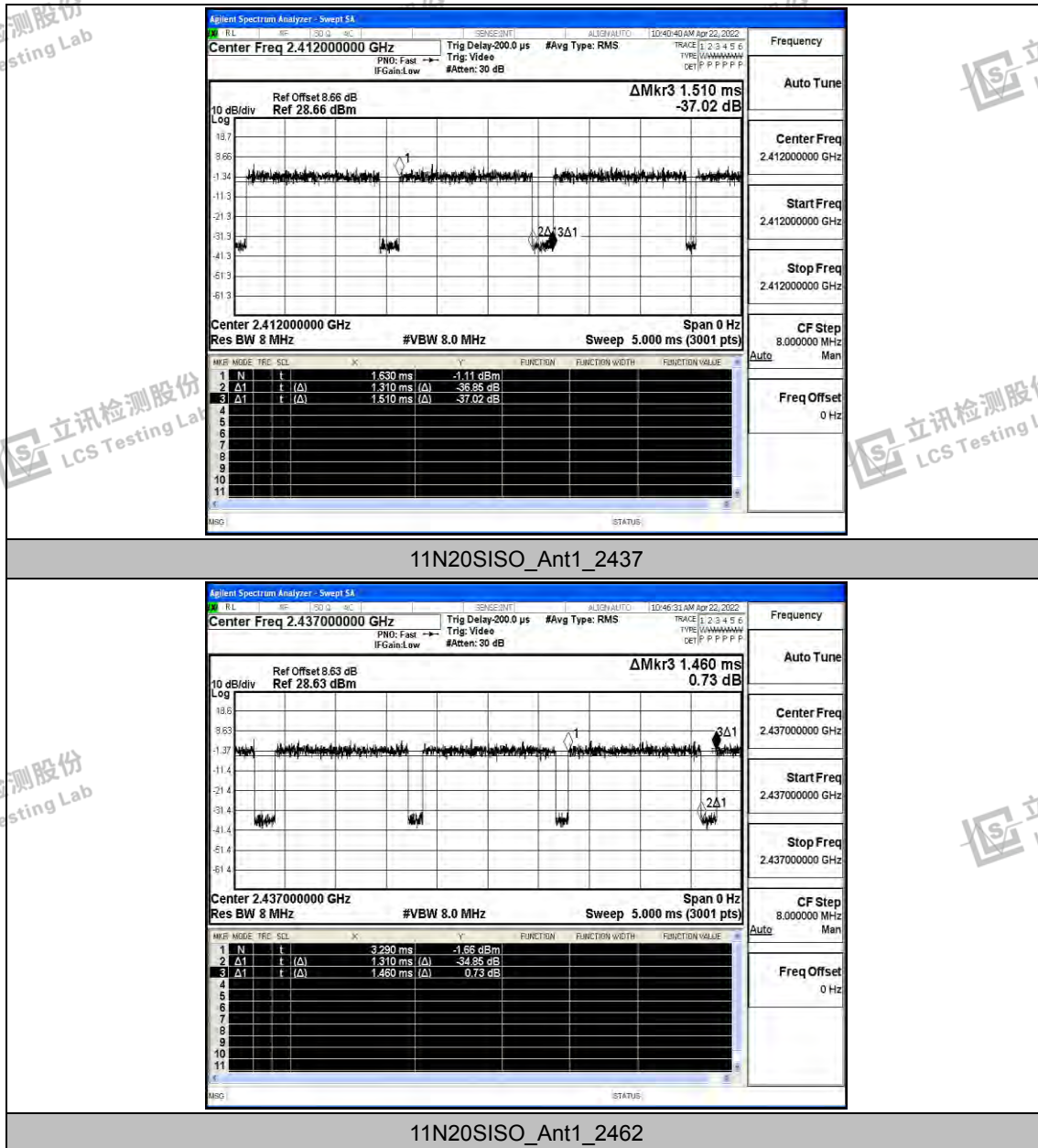


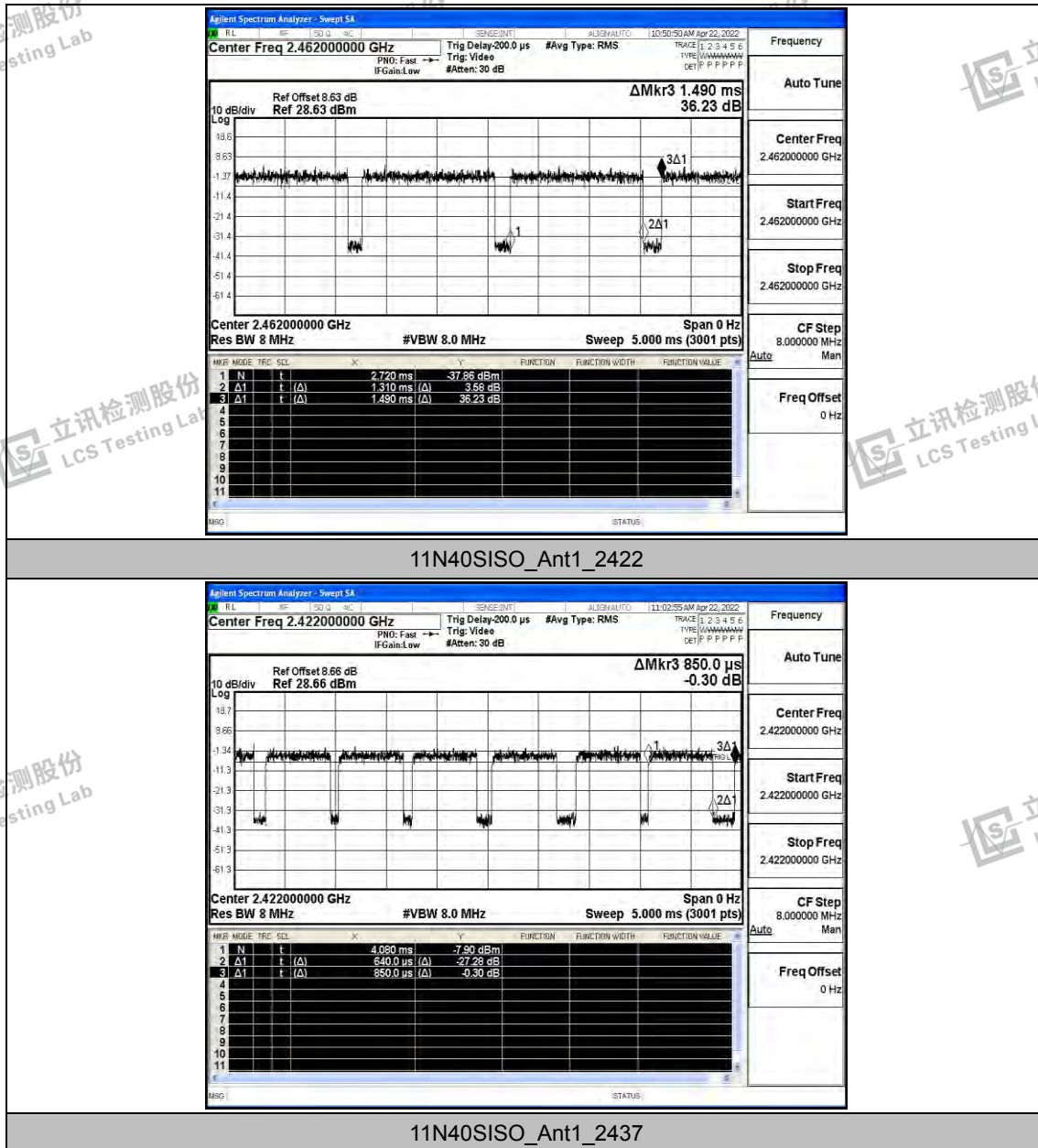
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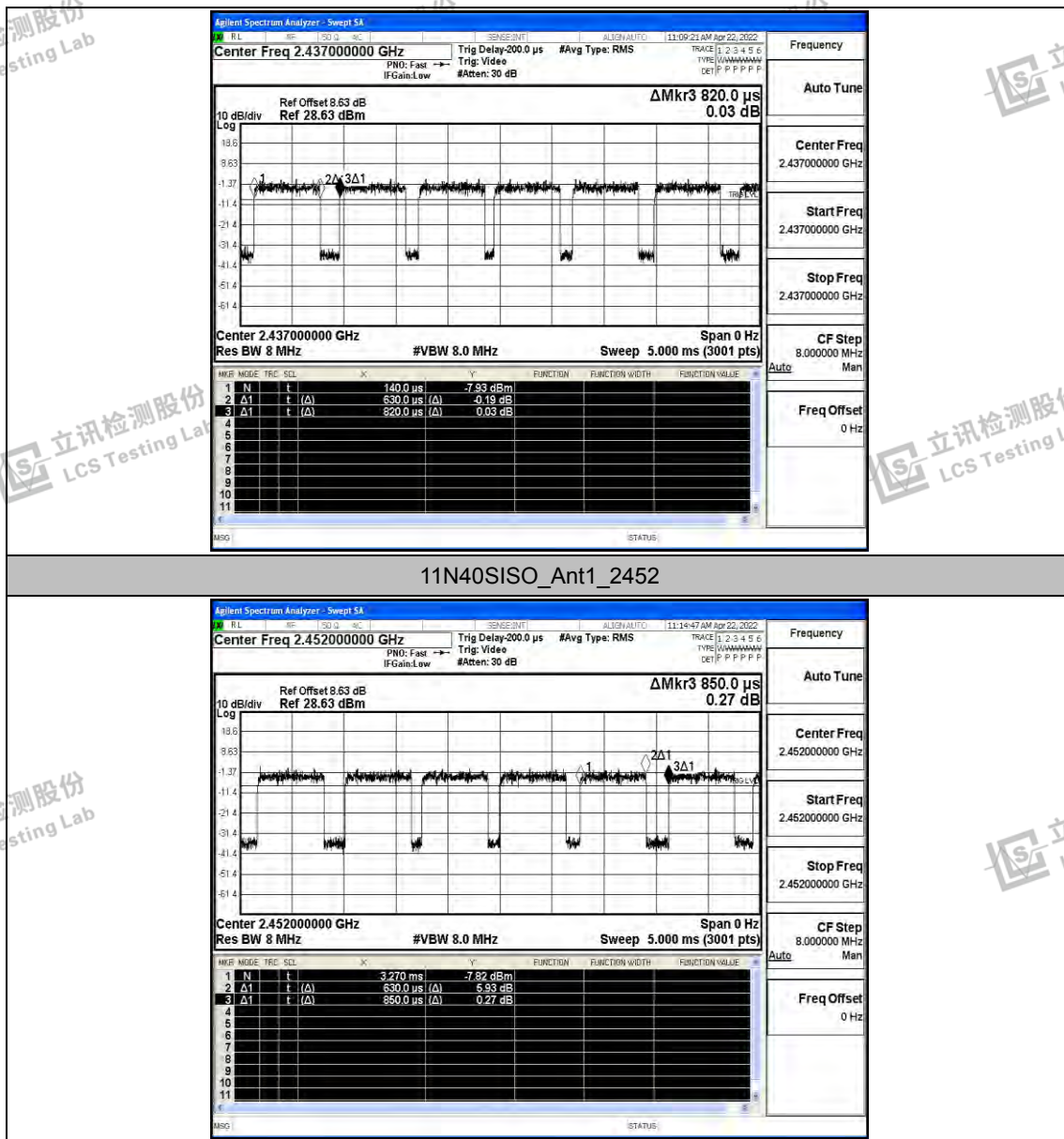


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B.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-58.64	≤-41.20	36.56	≤54	PASS
				AV	2371.110	-57.72	≤-41.20	37.48	≤54	PASS
				AV	2390.000	-58.07	≤-41.20	37.13	≤54	PASS
				Peak	2310.000	-48.13	≤-21.20	47.07	≤74	PASS
				Peak	2366.950	-45.71	≤-21.20	49.49	≤74	PASS
				Peak	2390.000	-47.7	≤-21.20	47.50	≤74	PASS
		High	2462	AV	2483.500	-57.83	≤-41.20	37.37	≤54	PASS
				AV	2499.840	-56.64	≤-41.20	38.56	≤54	PASS
				AV	2500.000	-56.65	≤-41.20	38.55	≤54	PASS
				Peak	2483.500	-47.39	≤-21.20	47.81	≤74	PASS
				Peak	2486.530	-45.32	≤-21.20	49.88	≤74	PASS
				Peak	2500.000	-46.47	≤-21.20	48.73	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-58.2	≤-41.20	37.00	≤54	PASS
				AV	2388.660	-57.28	≤-41.20	37.92	≤54	PASS
				AV	2390.000	-57.41	≤-41.20	37.79	≤54	PASS
				Peak	2310.000	-47.69	≤-21.20	47.51	≤74	PASS
				Peak	2364.090	-45.4	≤-21.20	49.80	≤74	PASS
				Peak	2390.000	-47.29	≤-21.20	47.91	≤74	PASS
		High	2462	AV	2483.500	-57.14	≤-41.20	38.06	≤54	PASS
				AV	2499.950	-56.67	≤-41.20	38.53	≤54	PASS
				AV	2500.000	-56.67	≤-41.20	38.53	≤54	PASS
				Peak	2483.500	-47.16	≤-21.20	48.04	≤74	PASS
				Peak	2484.330	-45.1	≤-21.20	50.10	≤74	PASS
				Peak	2500.000	-47.21	≤-21.20	47.99	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-58.16	≤-41.20	37.04	≤54	PASS
				AV	2387.100	-57.22	≤-41.20	37.98	≤54	PASS
				AV	2390.000	-57.44	≤-41.20	37.76	≤54	PASS
				Peak	2310.000	-48.3	≤-21.20	46.90	≤74	PASS
				Peak	2355.770	-45.89	≤-21.20	49.31	≤74	PASS
				Peak	2390.000	-47.31	≤-21.20	47.89	≤74	PASS
		High	2462	AV	2483.500	-57.11	≤-41.20	38.09	≤54	PASS
				AV	2499.840	-56.72	≤-41.20	38.48	≤54	PASS
				AV	2500.000	-56.77	≤-41.20	38.43	≤54	PASS
				Peak	2483.500	-47.06	≤-21.20	48.14	≤74	PASS
				Peak	2487.410	-45.17	≤-21.20	50.03	≤74	PASS



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11N40SIS O	Ant1	Low	2422	Peak	2500.000	-46.54	≤-21.20	48.66	≤74	PASS
				AV	2310.000	-57.66	≤-41.20	37.54	≤54	PASS
				AV	2389.570	-56.58	≤-41.20	38.62	≤54	PASS
				AV	2390.000	-56.75	≤-41.20	38.45	≤54	PASS
				Peak	2310.000	-47.91	≤-21.20	47.29	≤74	PASS
				Peak	2367.080	-44.36	≤-21.20	50.84	≤74	PASS
				Peak	2390.000	-47.05	≤-21.20	48.15	≤74	PASS
		High	2452	AV	2483.500	-56.76	≤-41.20	38.44	≤54	PASS
				AV	2487.960	-56.4	≤-41.20	38.80	≤54	PASS
				AV	2500.000	-56.42	≤-41.20	38.78	≤54	PASS
				Peak	2483.500	-46.9	≤-21.20	48.30	≤74	PASS
				Peak	2493.460	-45.24	≤-21.20	49.96	≤74	PASS
				Peak	2500.000	-47.1	≤-21.20	48.10	≤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.

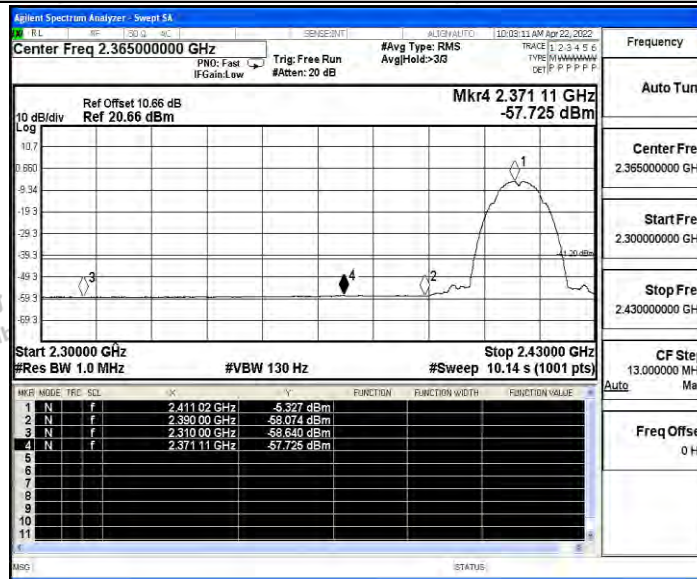


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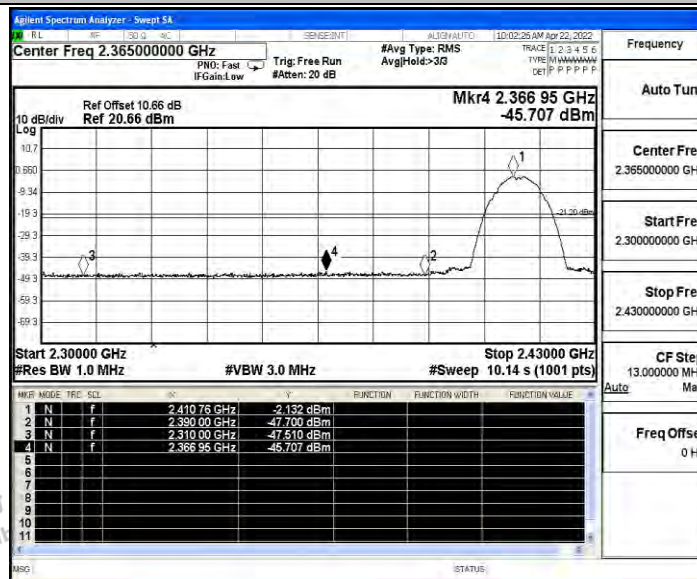


Test Graphs

11B_Ant1_Low_2412_AV



11B_Ant1_Low_2412_Peak



11B_Ant1_High_2462_AV

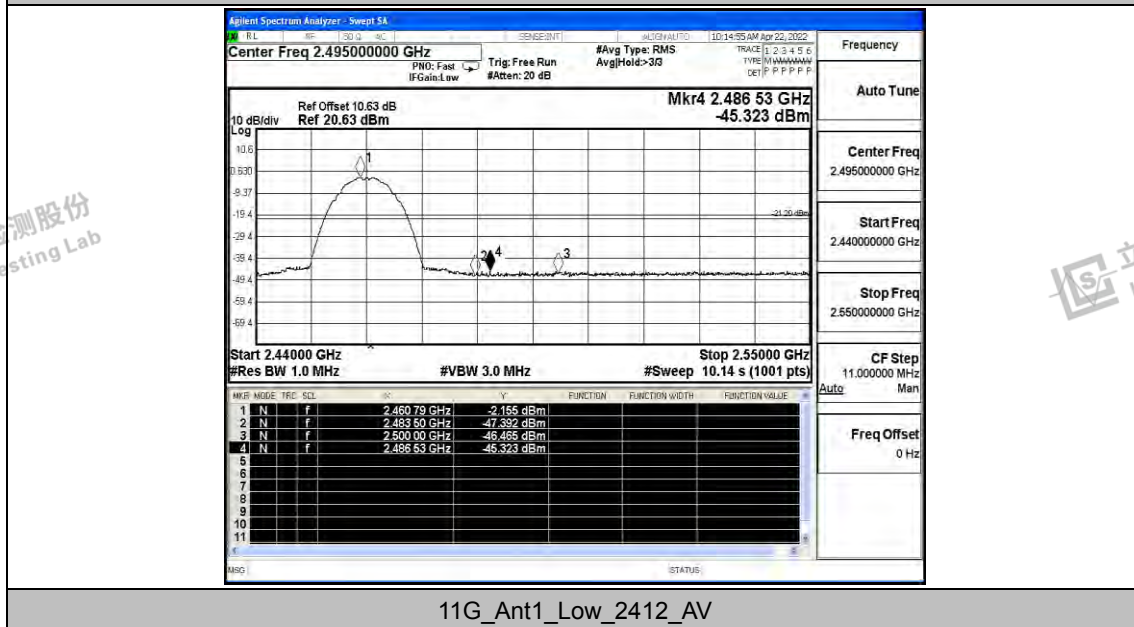
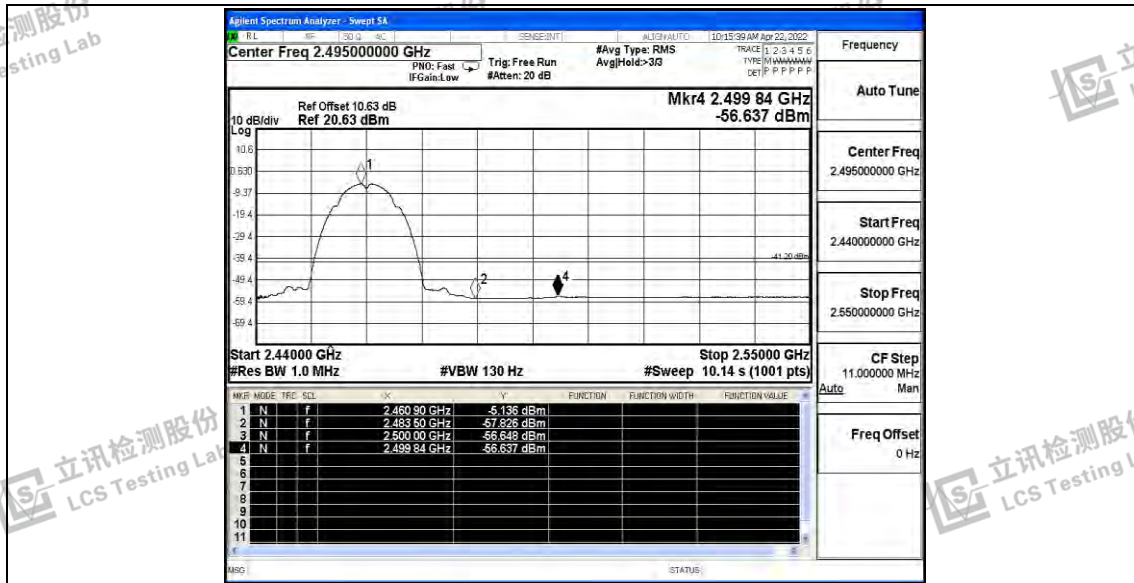


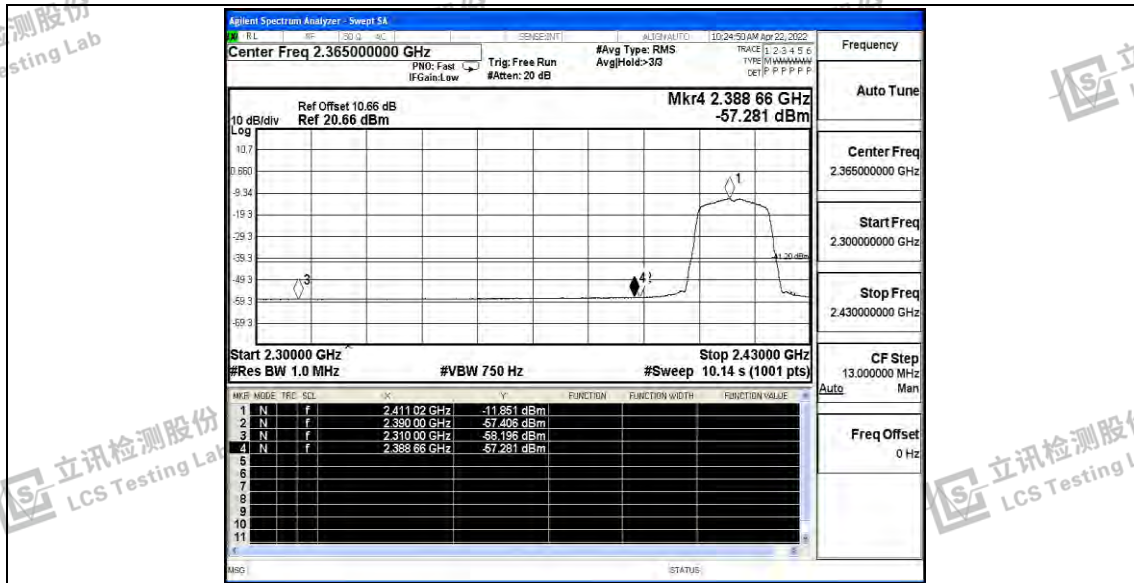
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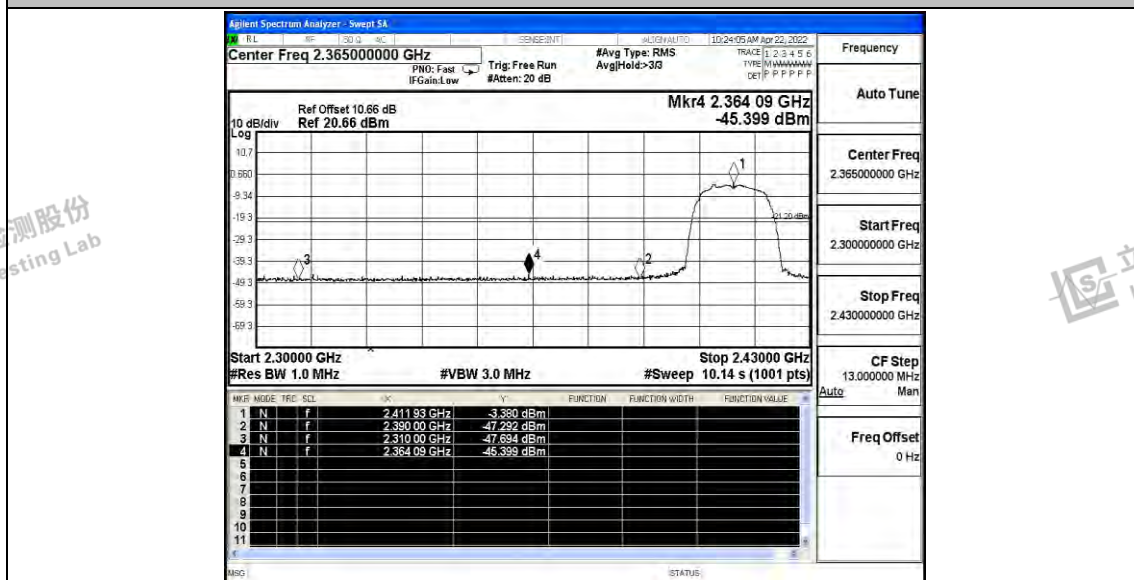
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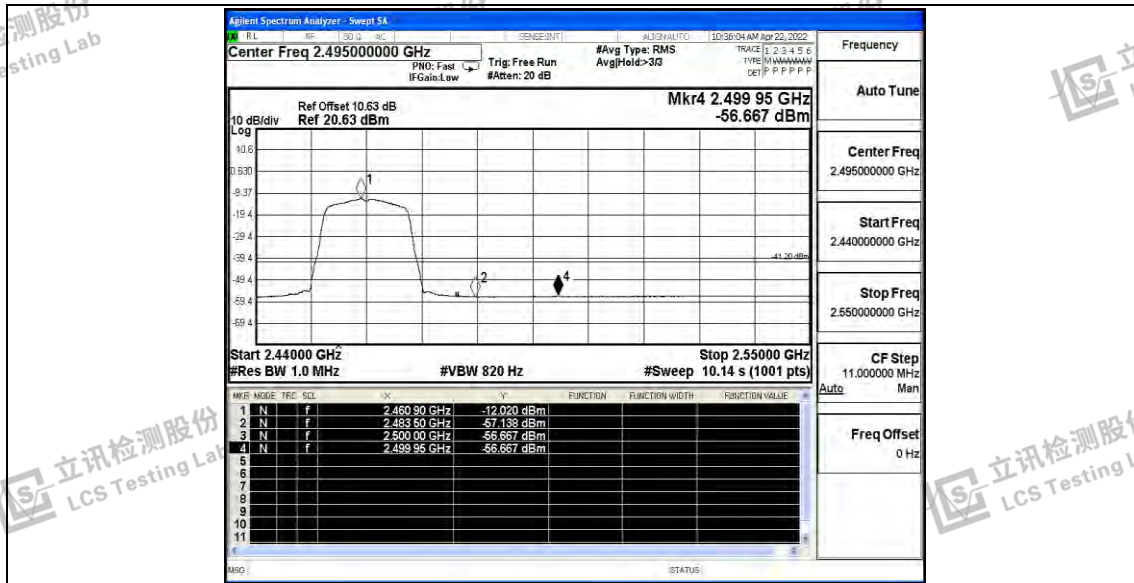


11G_Ant1_Low_2412_Peak

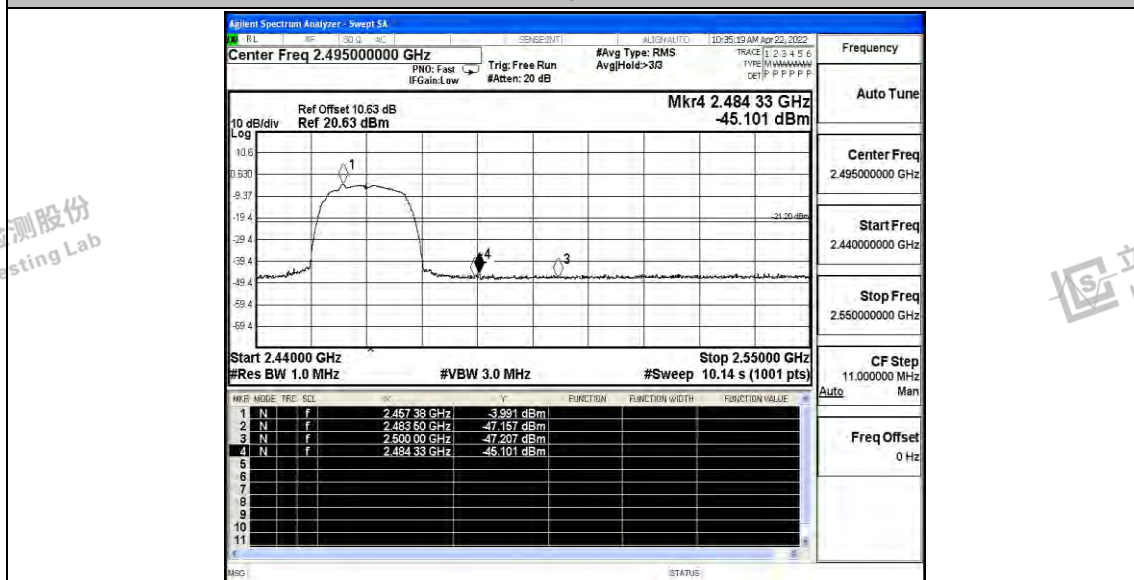


11G_Ant1_High_2462_AV



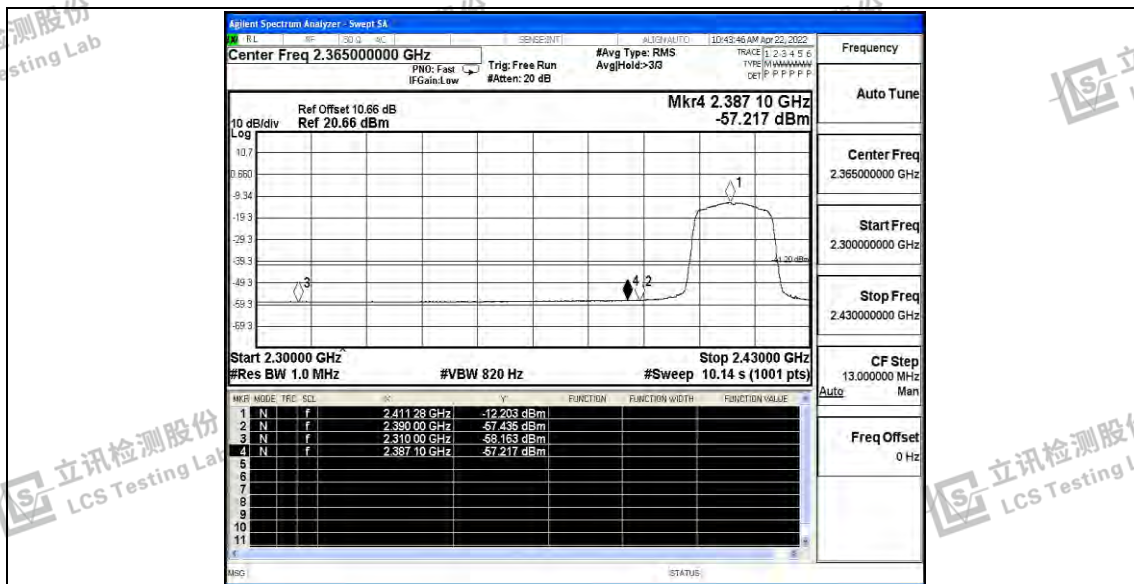


11G_Ant1_High_2462_Peak

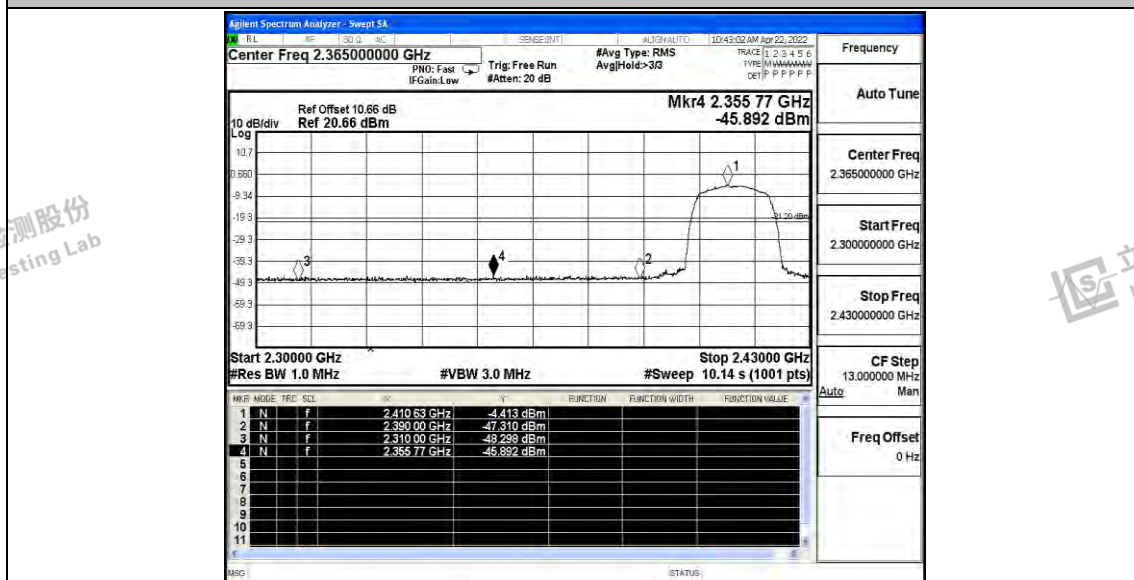


11N20SISO_Ant1_Low_2412_AV



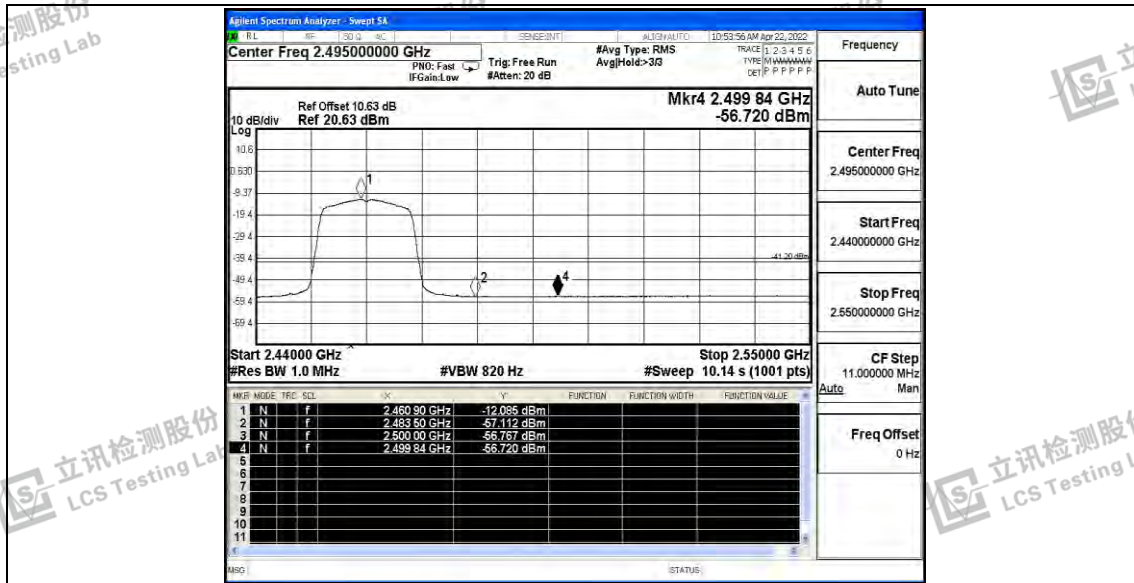


11N20SISO_Ant1_Low_2412_Peak

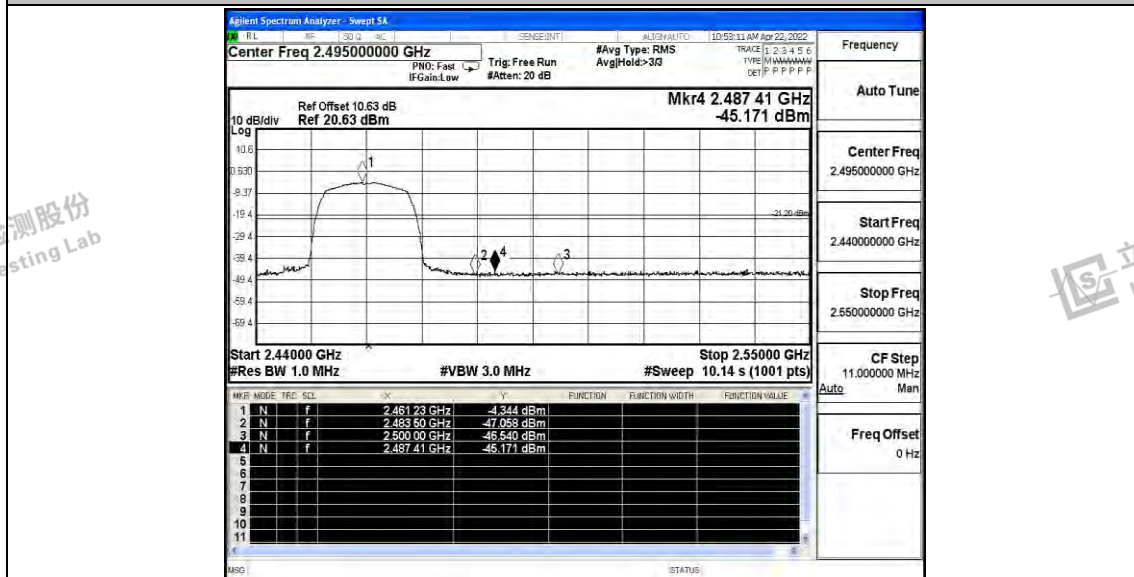


11N20SISO_Ant1_High_2462_AV



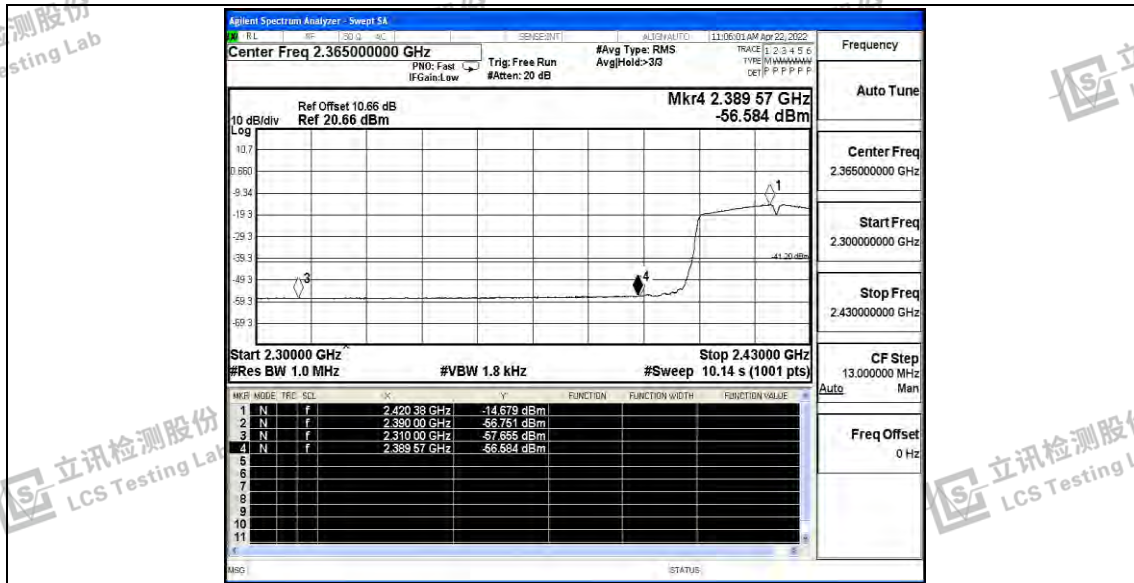


11N20SISO_Ant1_High_2462_Peak

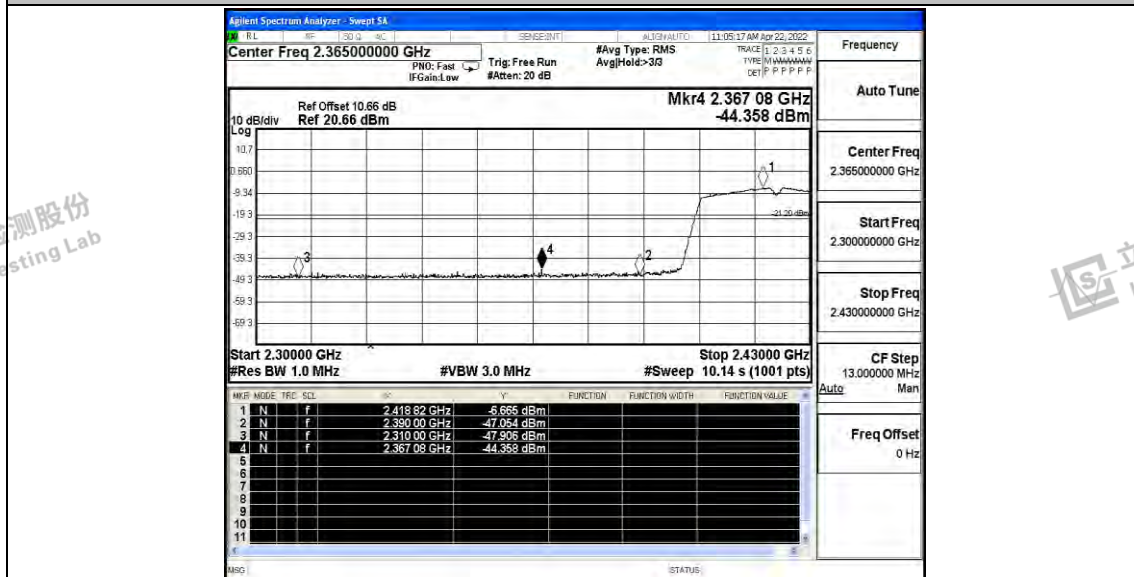


11N40SISO_Ant1_Low_2422_AV





11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV



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