



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Car diagnostics device

Test Model: F500

HVIN: F500

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Monkey Li
Supervised by:	Li huan



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C.1 DTS Bandwidth

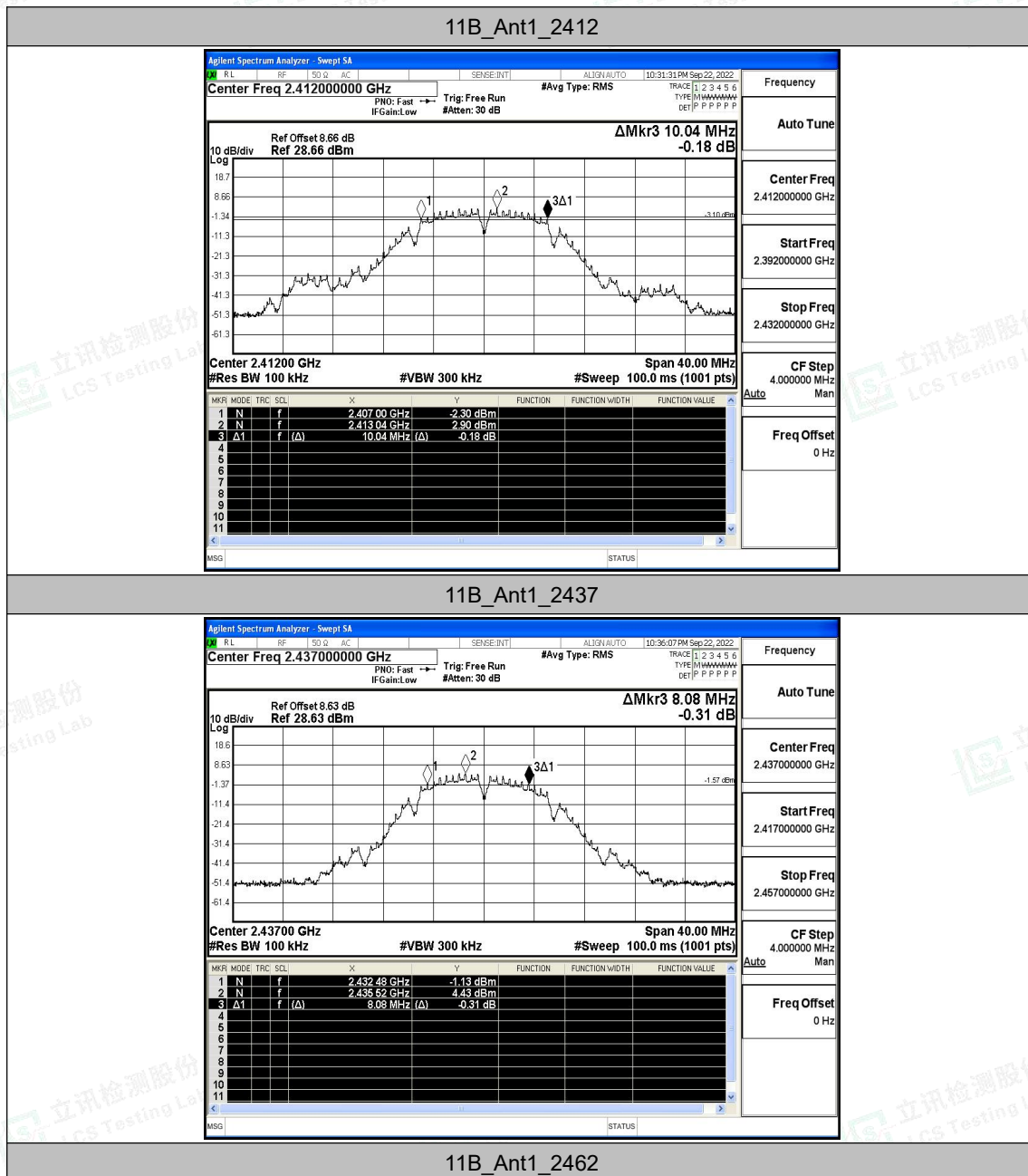
Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.040	2407.000	2417.040	0.5	PASS
		2437	8.080	2432.480	2440.560	0.5	PASS
		2462	9.520	2457.520	2467.040	0.5	PASS
11G	Ant1	2412	16.280	2403.880	2420.160	0.5	PASS
		2437	15.040	2429.480	2444.520	0.5	PASS
		2462	15.800	2454.480	2470.280	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.240	2420.800	0.5	PASS
		2437	15.080	2429.480	2444.560	0.5	PASS
		2462	16.360	2454.480	2470.840	0.5	PASS
11N40SISO	Ant1	2422	35.040	2404.480	2439.520	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

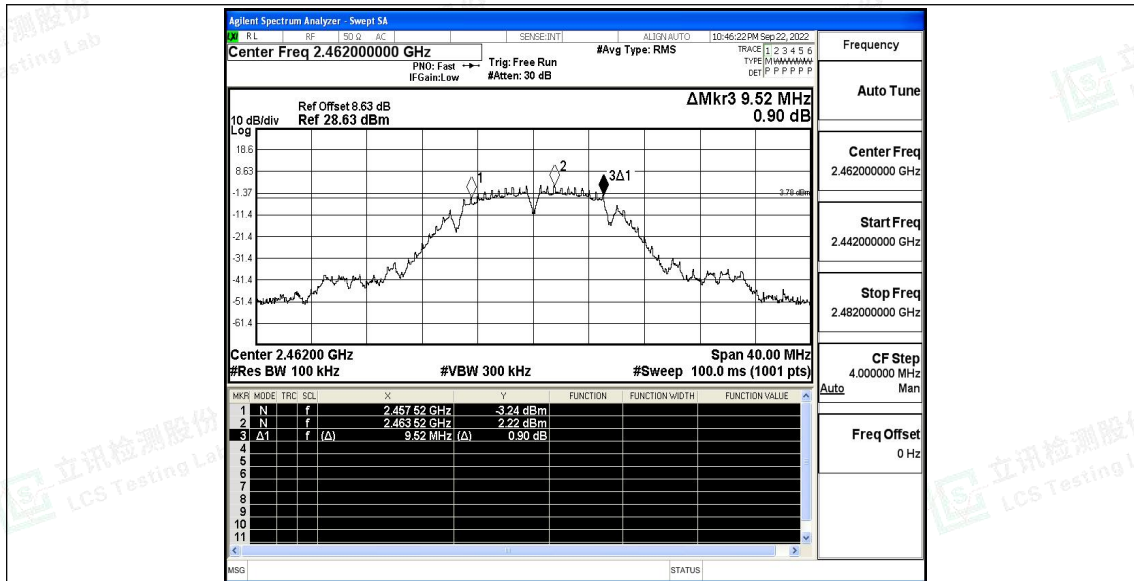


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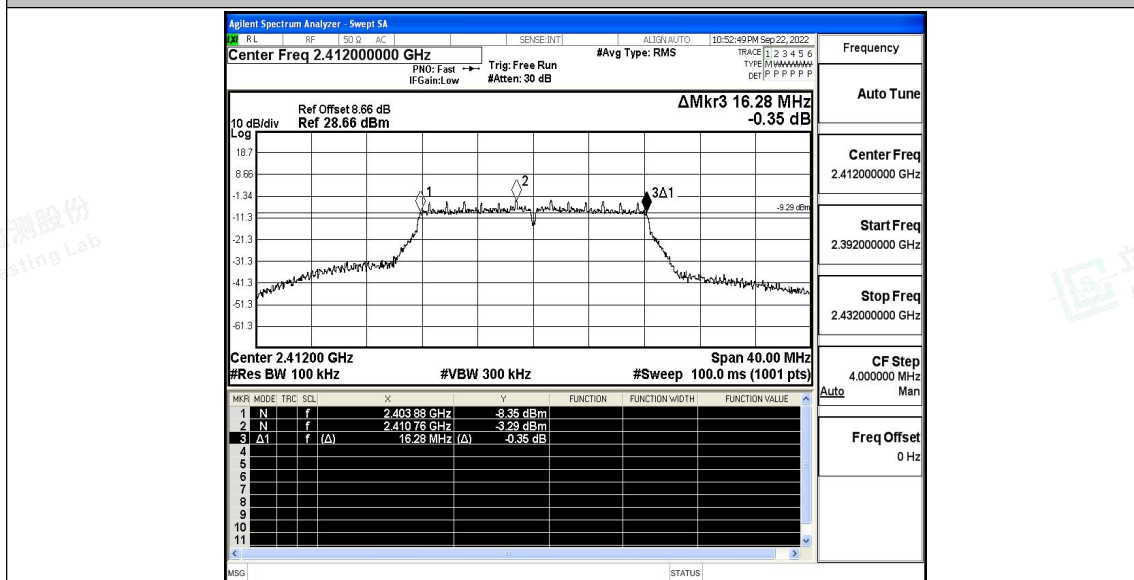
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11G_Ant1_2412



11G_Ant1_2437

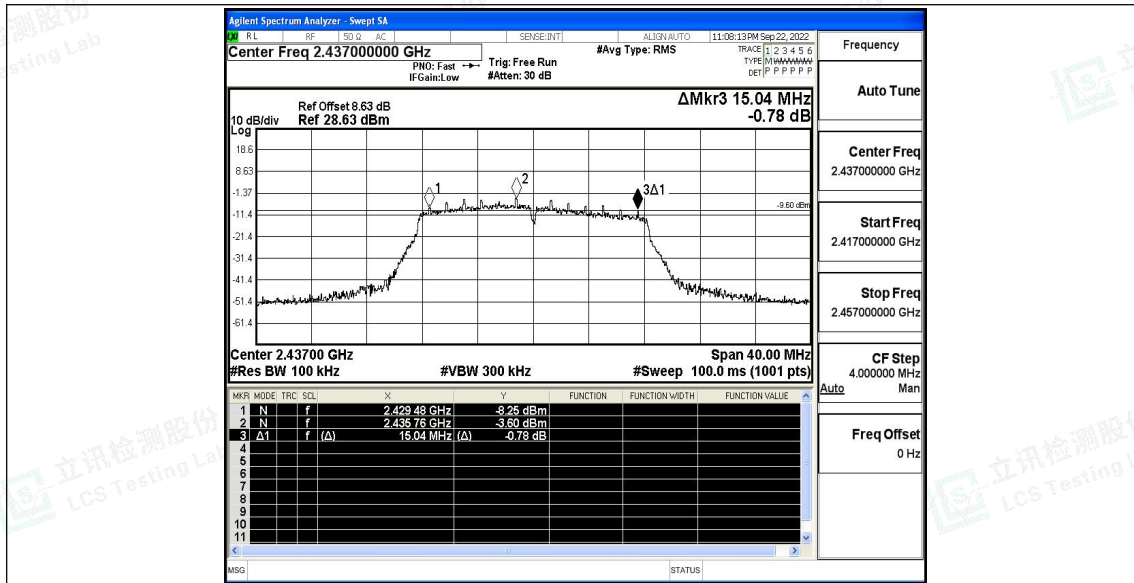


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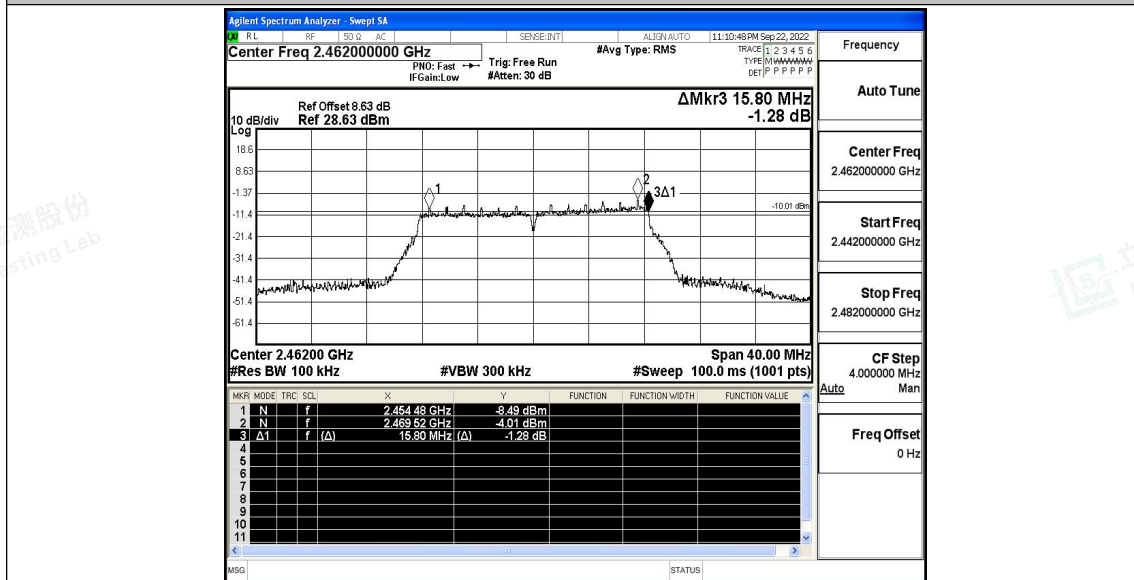
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11G_Ant1_2462



11N20SISO_Ant1_2412

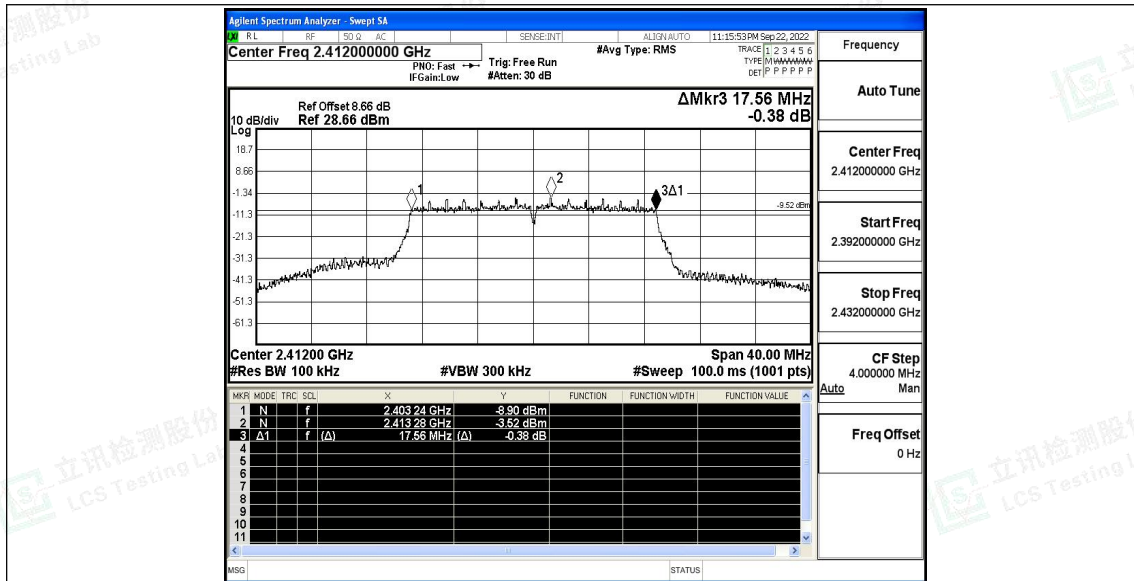


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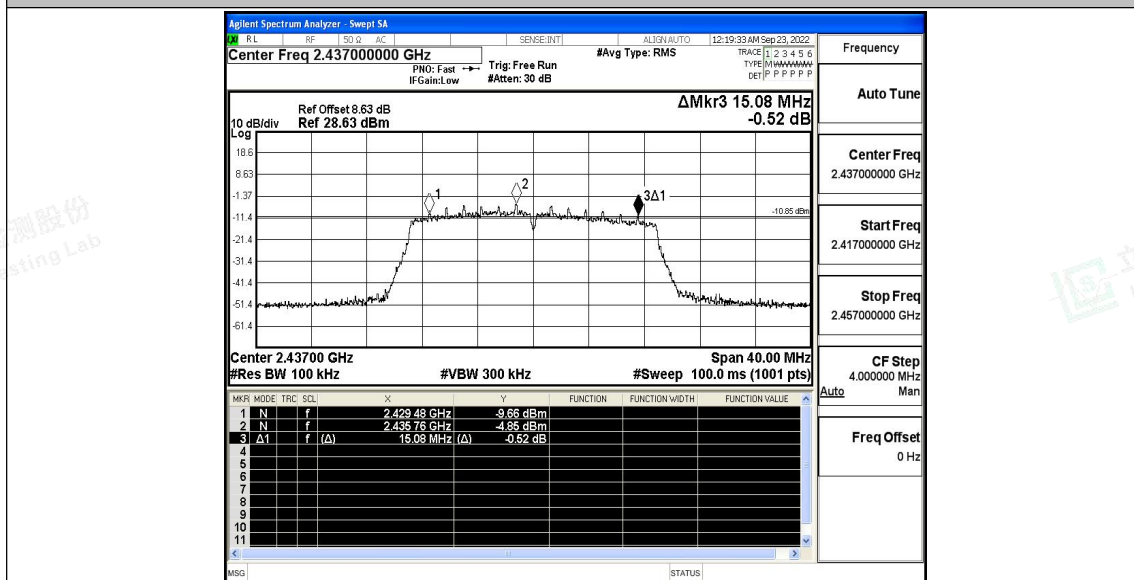
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

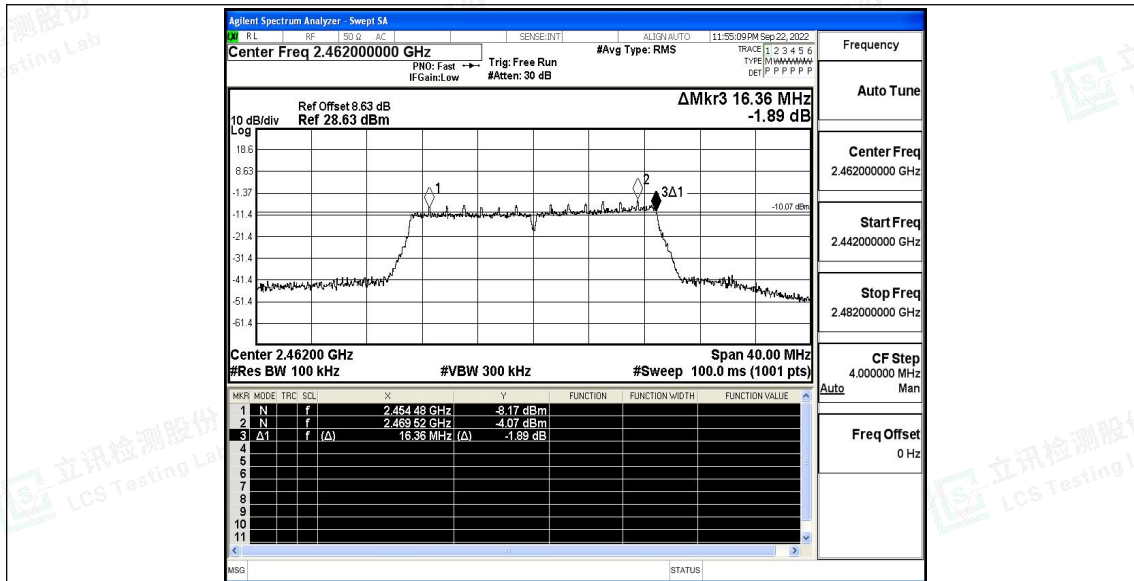


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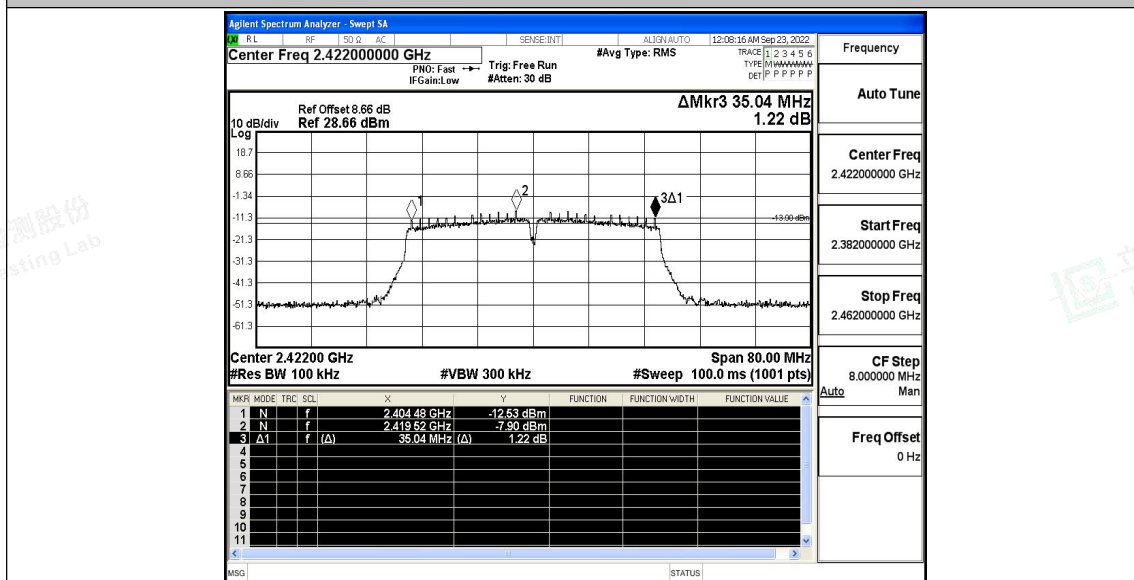
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

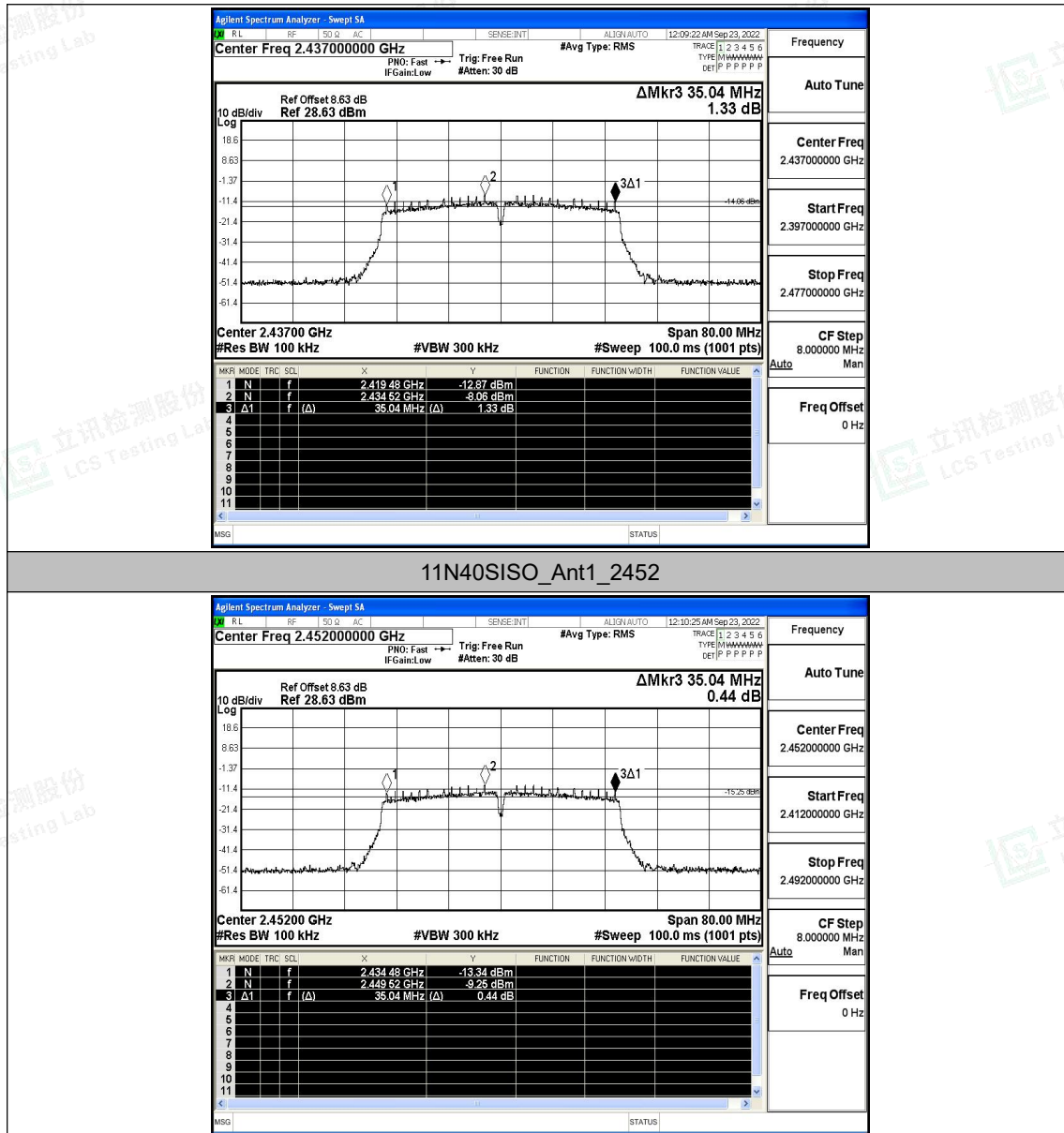


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C.2 Occupied Channel Bandwidth

Test Result

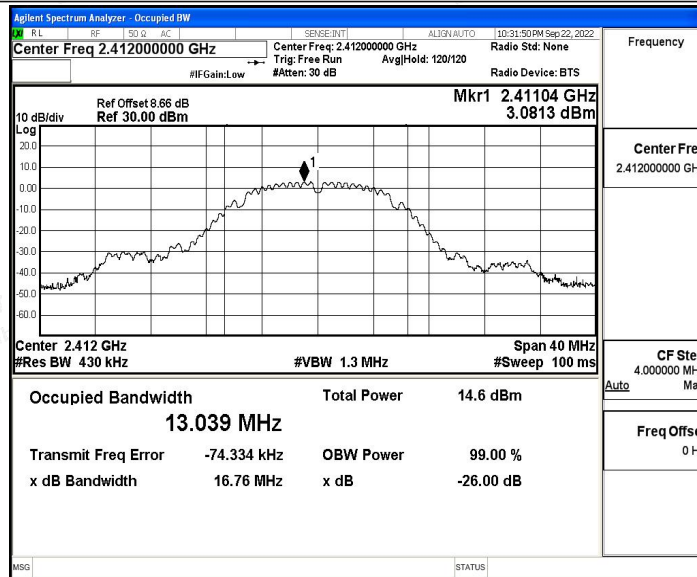
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.039	2405.4062	2418.4452	---	---
		2437	12.009	2430.9192	2442.9282	---	---
		2462	12.808	2455.7959	2468.6039	---	---
11G	Ant1	2412	17.172	2403.3813	2420.5533	---	---
		2437	16.531	2428.6571	2445.1881	---	---
		2462	17.296	2453.5051	2470.8011	---	---
11N20SISO	Ant1	2412	18.174	2402.9016	2421.0756	---	---
		2437	17.562	2428.1829	2445.7449	---	---
		2462	18.185	2453.0620	2471.2470	---	---
11N40SISO	Ant1	2422	36.060	2404.0102	2440.0702	---	---
		2437	36.009	2419.0328	2455.0418	---	---
		2452	36.171	2433.9591	2470.1301	---	---



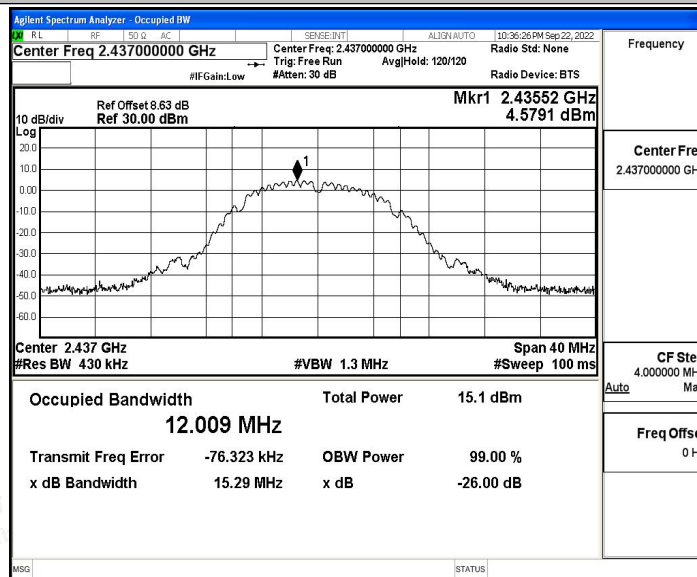


Test Graphs

11B_Ant1_2412

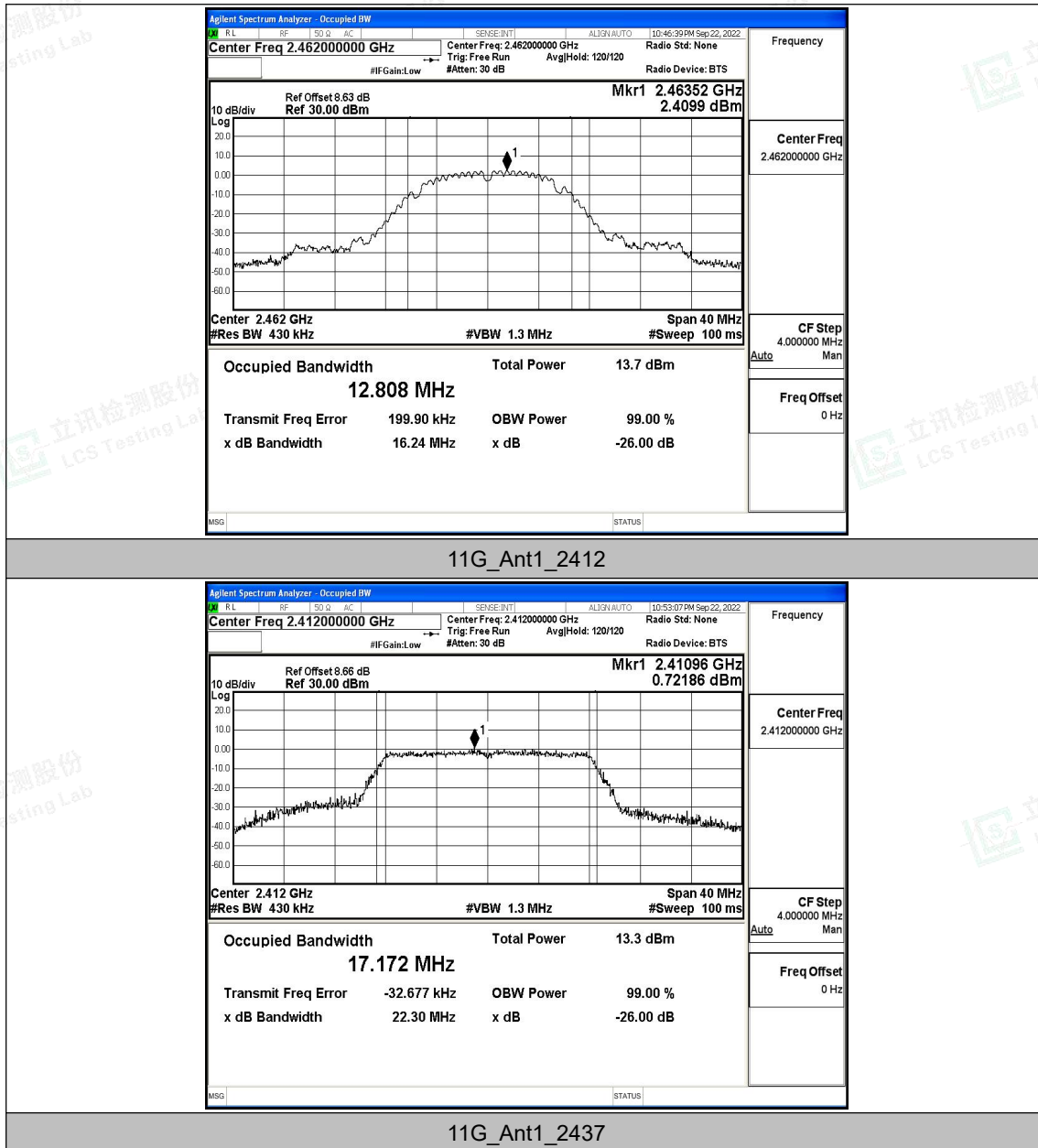


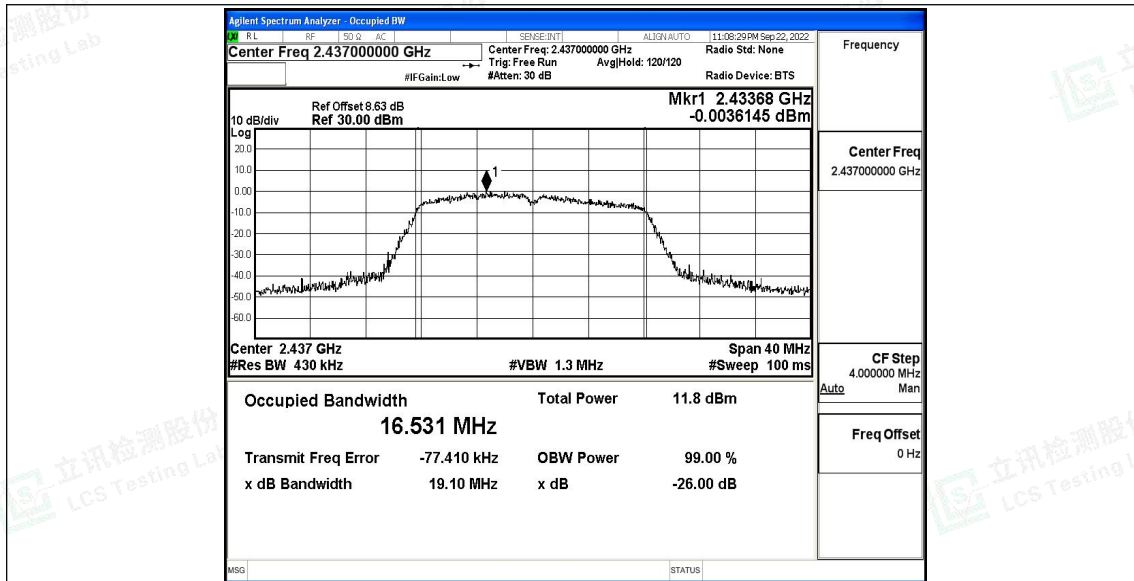
11B_Ant1_2437



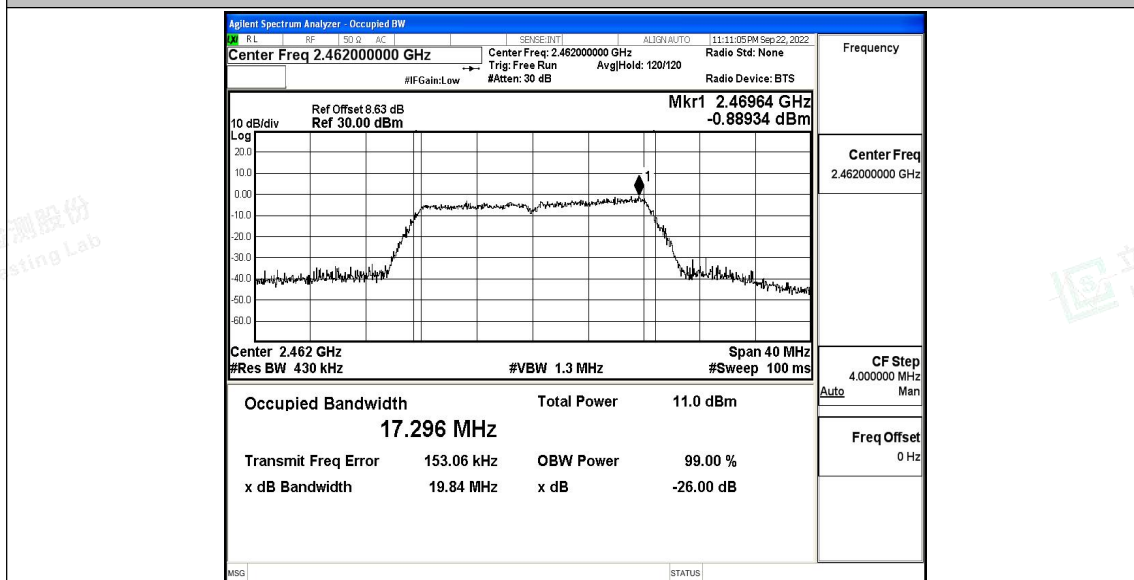
11B_Ant1_2462





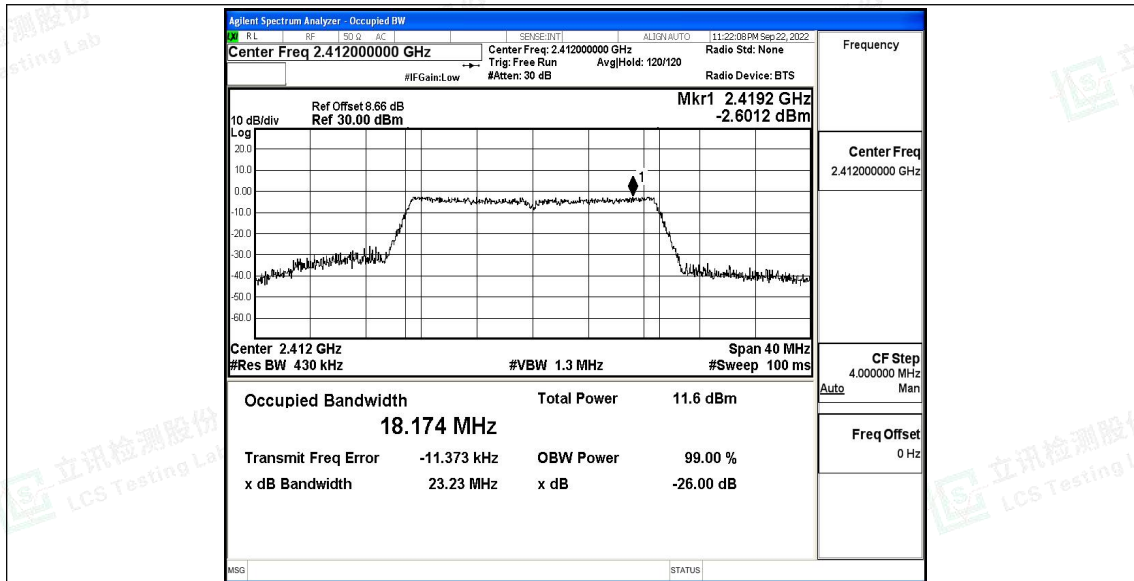


11G_Ant1_2462

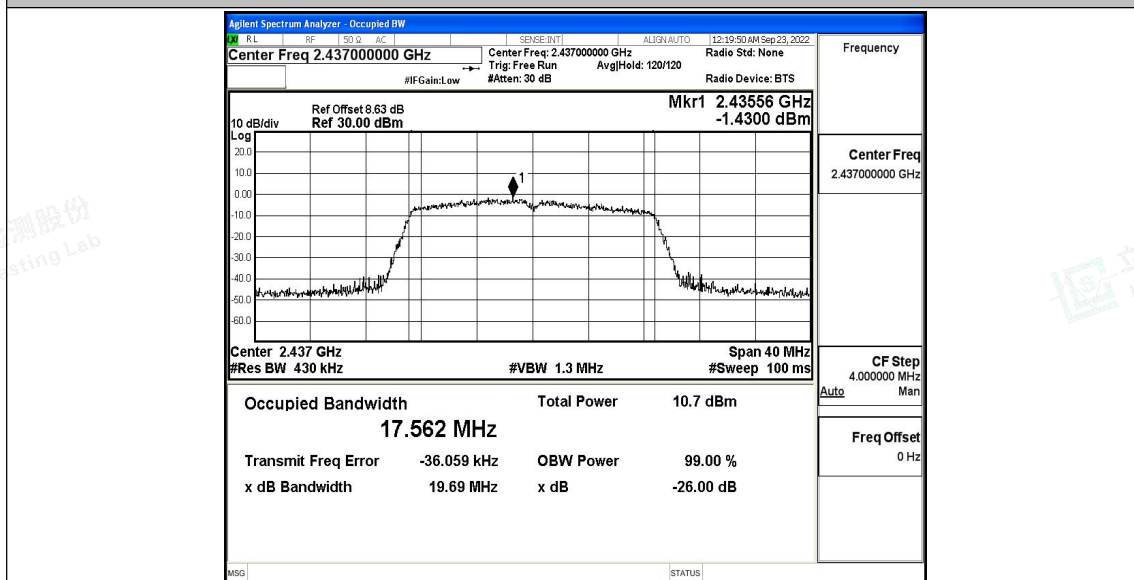


11N20SISO_Ant1_2412





11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

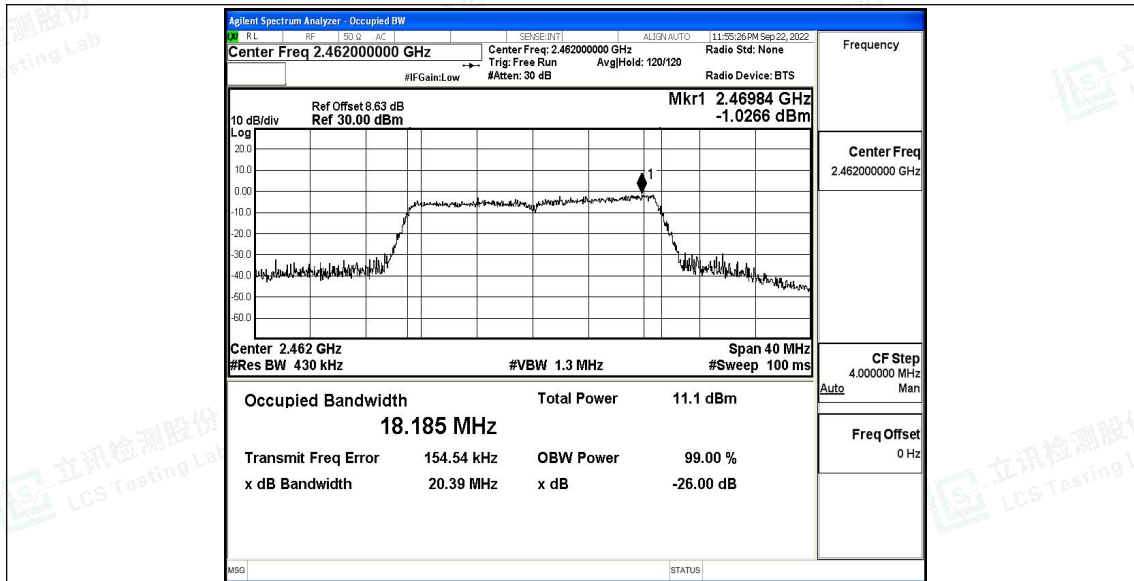


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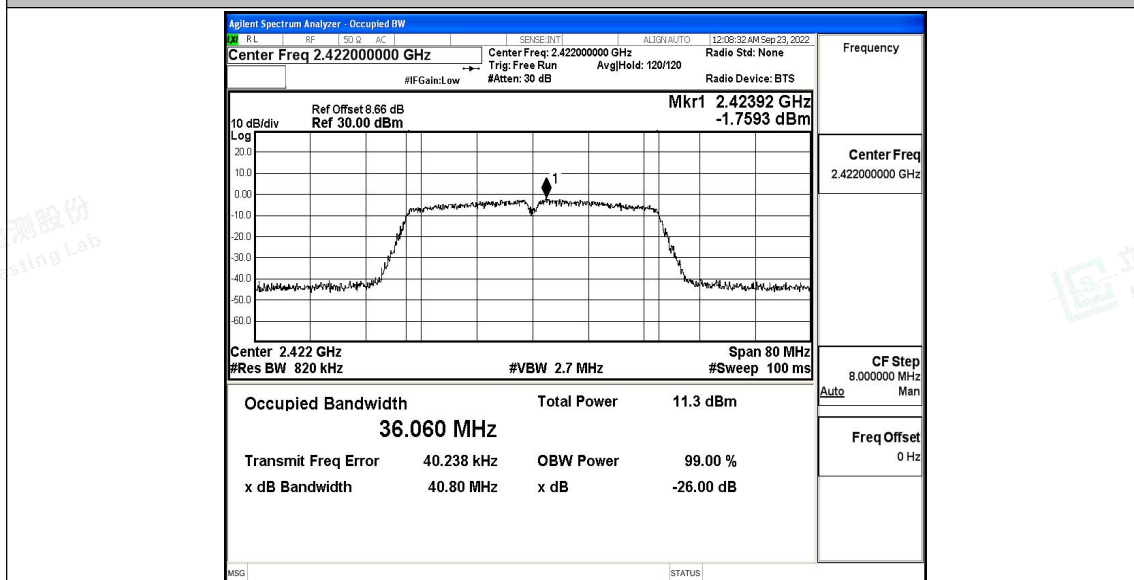
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

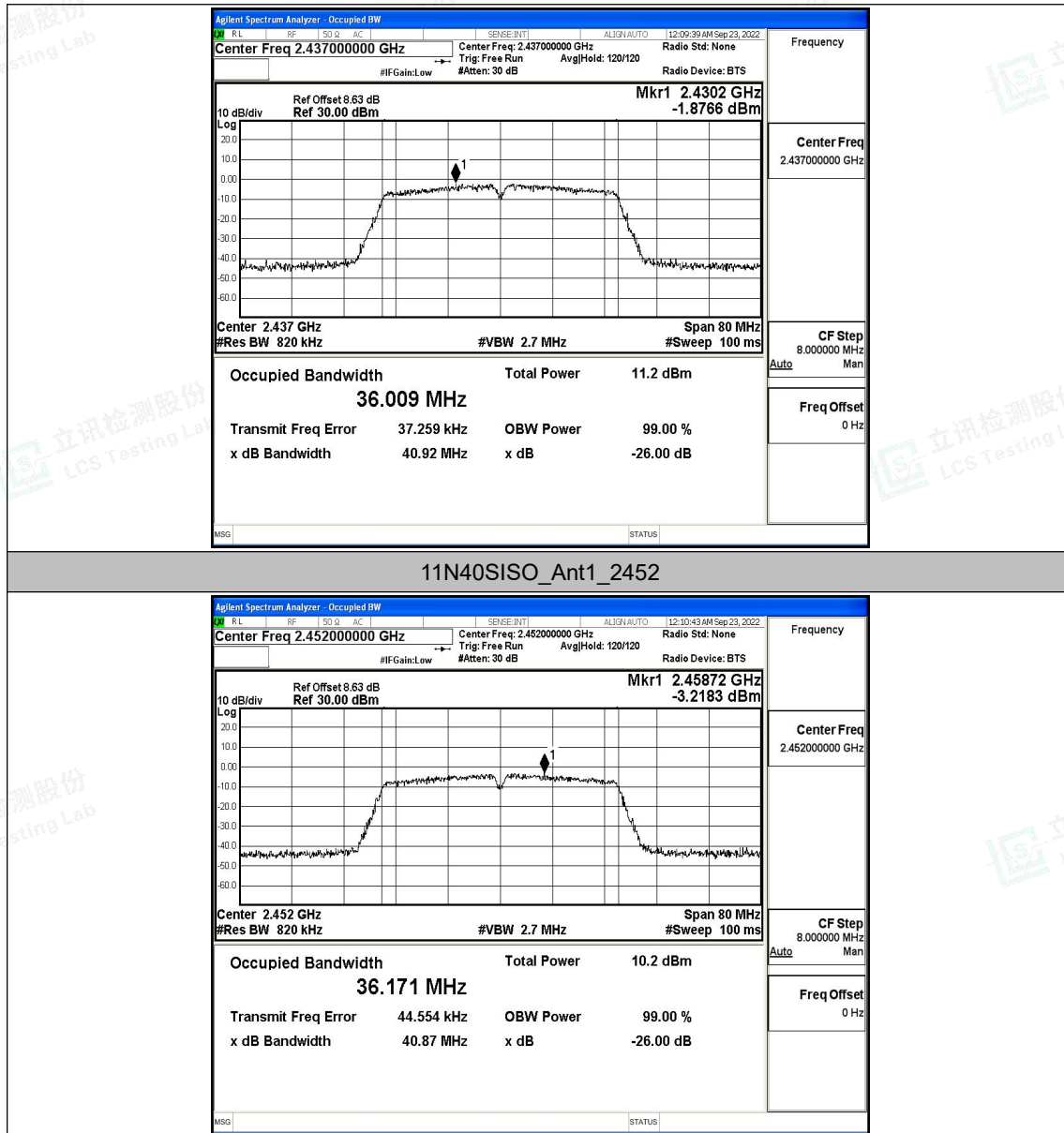


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C.3 Maximum conducted output power and e.i.r.p.

Test Result

Test Mode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant1	2412	15.10	≤30.00	2.99	18.09	≤36	PASS
		2437	15.32	≤30.00	2.99	18.31	≤36	PASS
		2462	14.00	≤30.00	2.99	16.99	≤36	PASS
11G	Ant1	2412	15.78	≤30.00	2.99	18.77	≤36	PASS
		2437	14.28	≤30.00	2.99	17.27	≤36	PASS
		2462	13.46	≤30.00	2.99	16.45	≤36	PASS
11N20SISO	Ant1	2412	14.04	≤30.00	2.99	17.03	≤36	PASS
		2437	13.19	≤30.00	2.99	16.18	≤36	PASS
		2462	13.53	≤30.00	2.99	16.52	≤36	PASS
11N40SISO	Ant1	2422	13.33	≤30.00	2.99	16.32	≤36	PASS
		2437	13.22	≤30.00	2.99	16.21	≤36	PASS
		2452	12.19	≤30.00	2.99	15.18	≤36	PASS



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C.4 Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-10.54	≤8.00	PASS
		2437	-10.95	≤8.00	PASS
		2462	-12.39	≤8.00	PASS
11G	Ant1	2412	-18.48	≤8.00	PASS
		2437	-18.44	≤8.00	PASS
		2462	-18.73	≤8.00	PASS
11N20SISO	Ant1	2412	-17.95	≤8.00	PASS
		2437	-20.24	≤8.00	PASS
		2462	-18.63	≤8.00	PASS
11N40SISO	Ant1	2422	-22.46	≤8.00	PASS
		2437	-23.56	≤8.00	PASS
		2452	-24.7	≤8.00	PASS

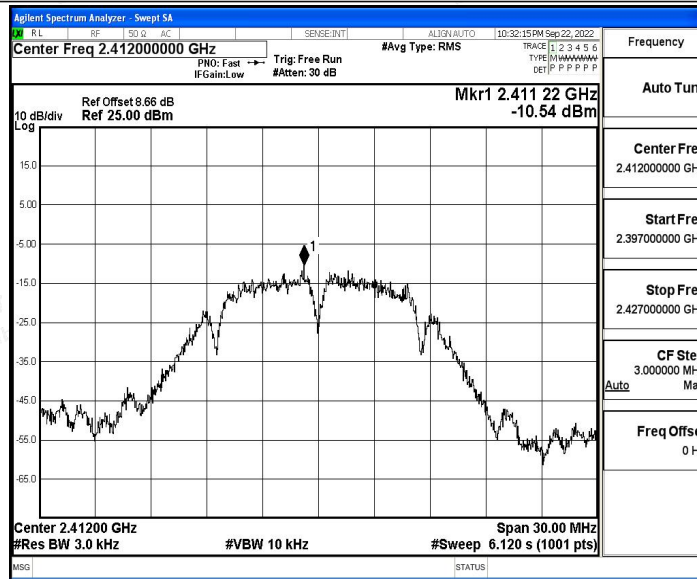


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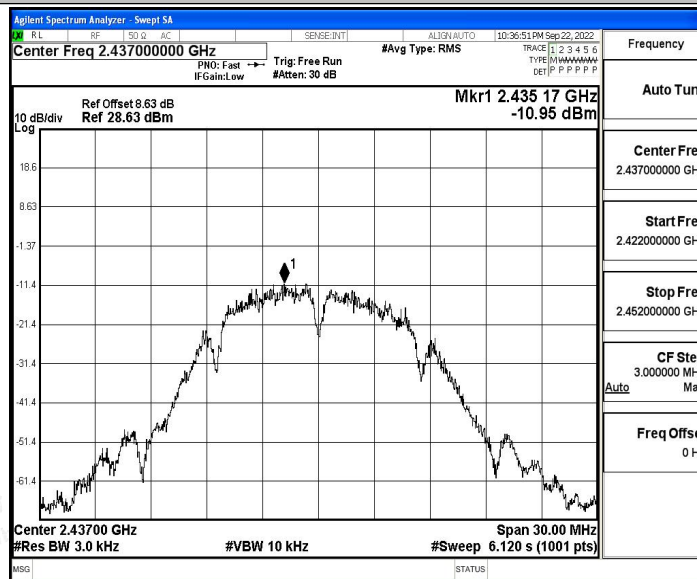


Test Graphs

11B_Ant1_2412

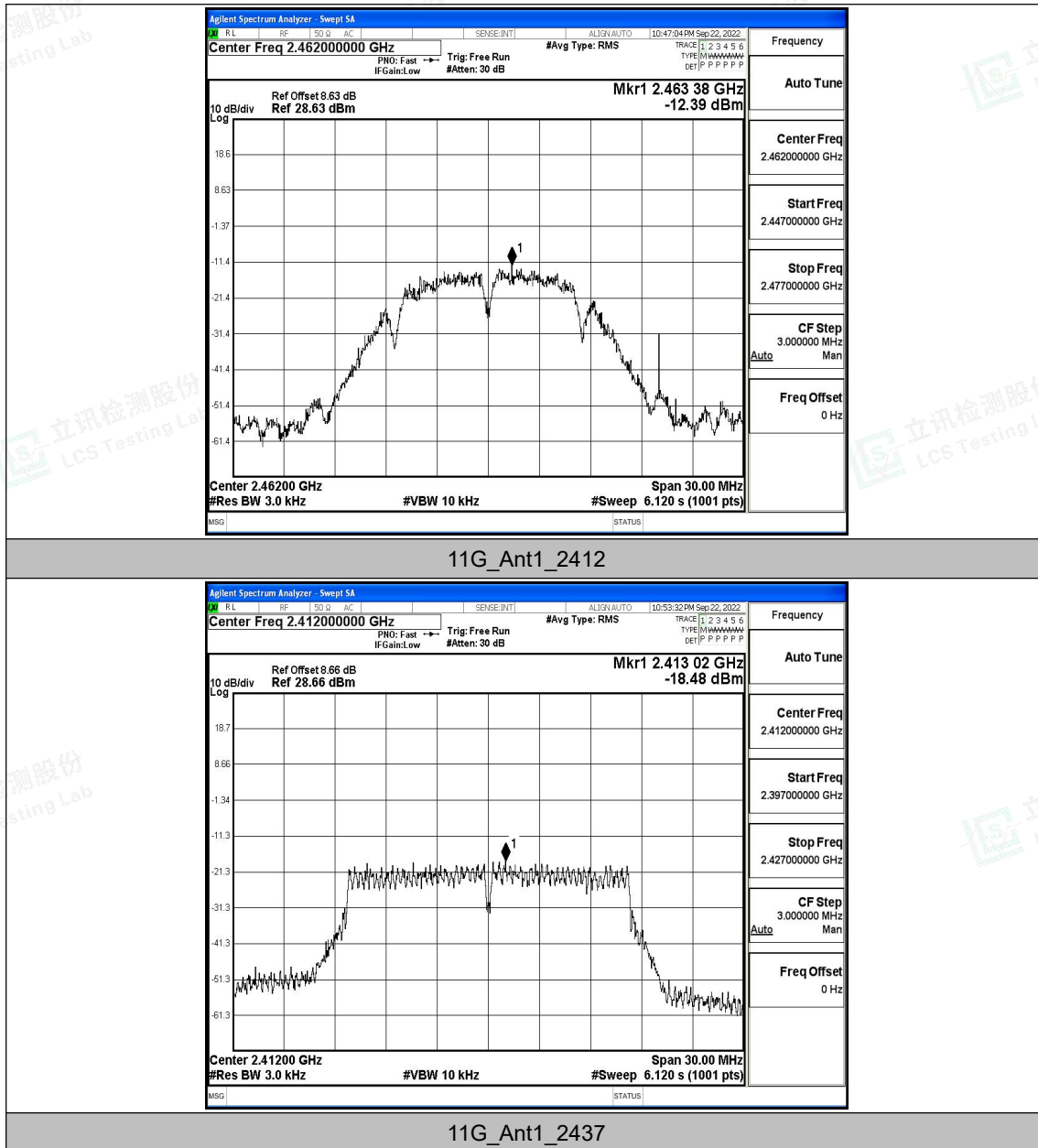


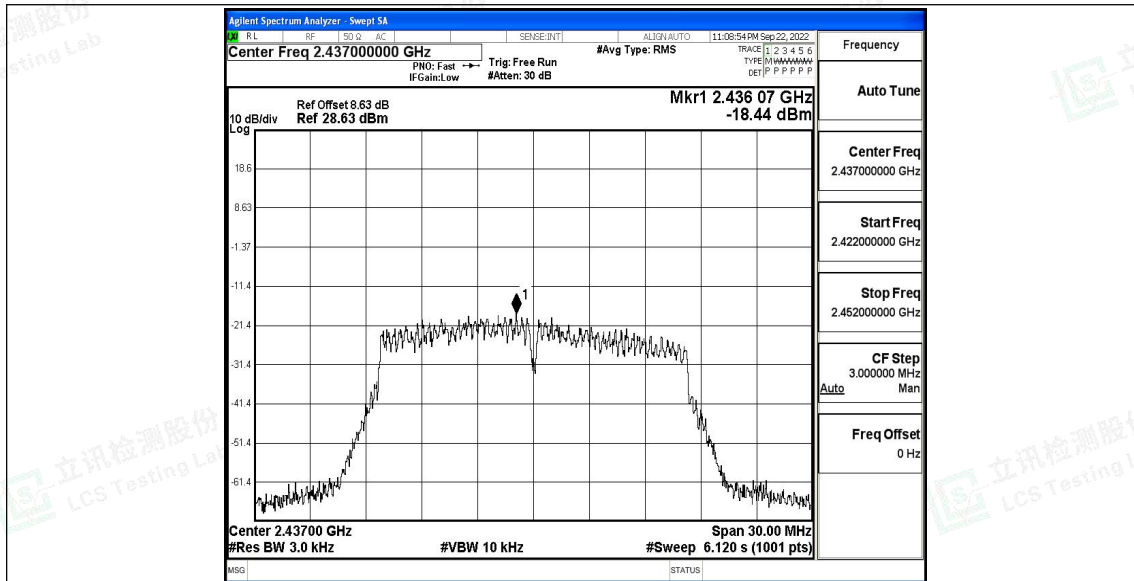
11B_Ant1_2437



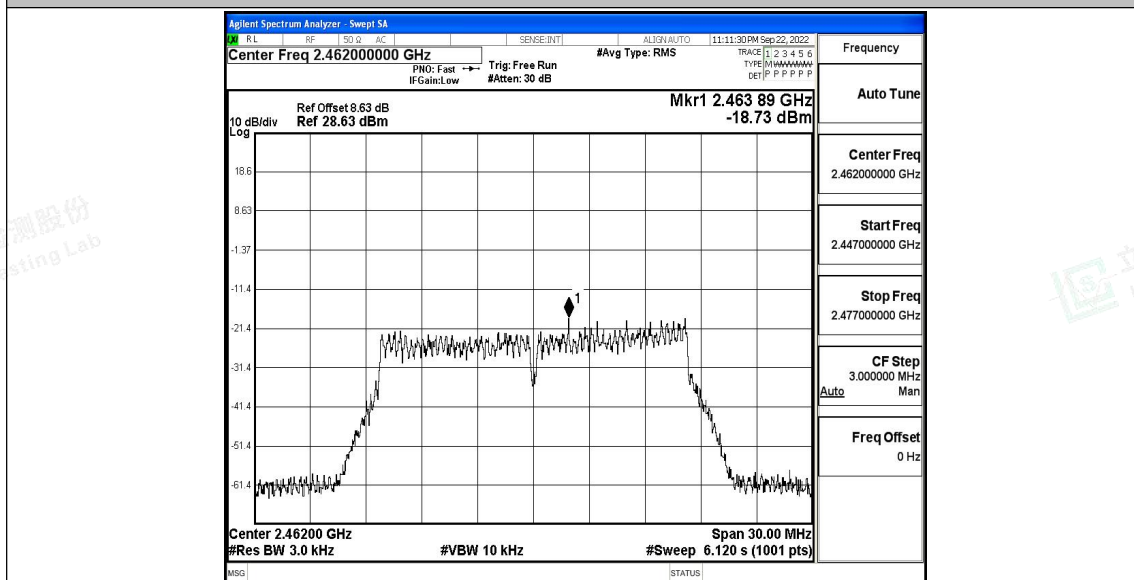
11B_Ant1_2462





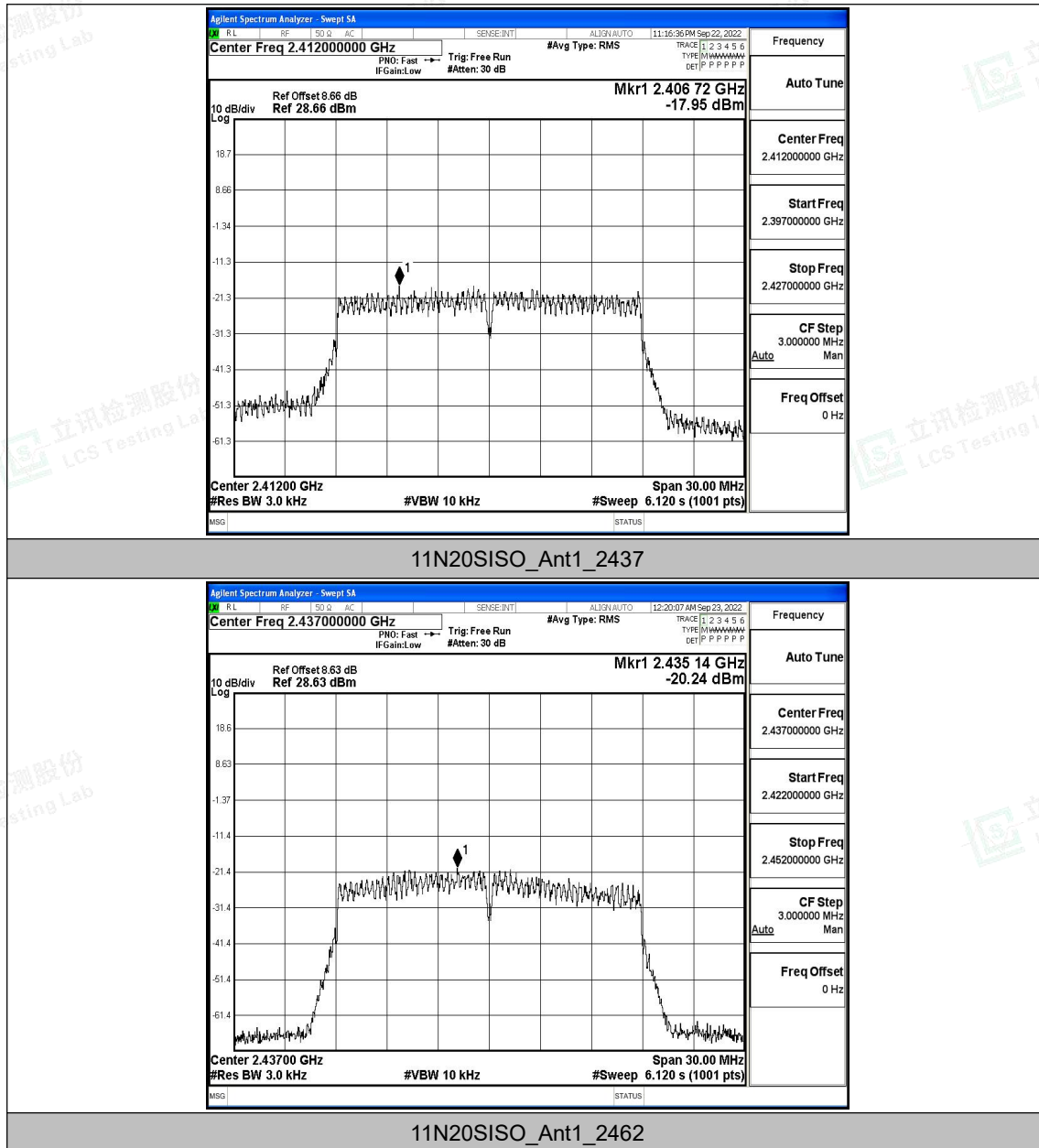


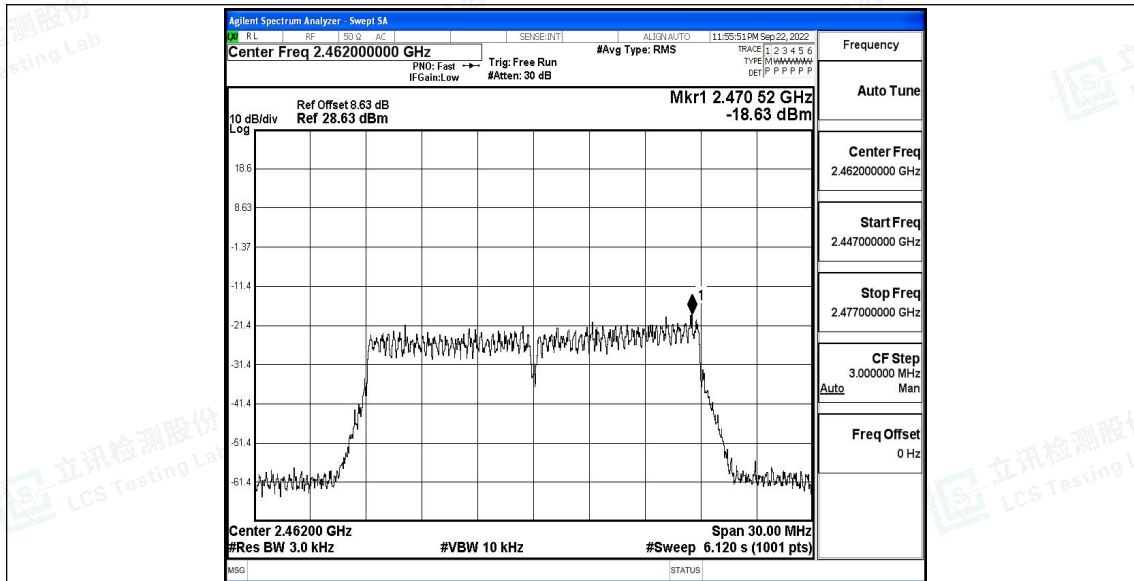
11G_Ant1_2462



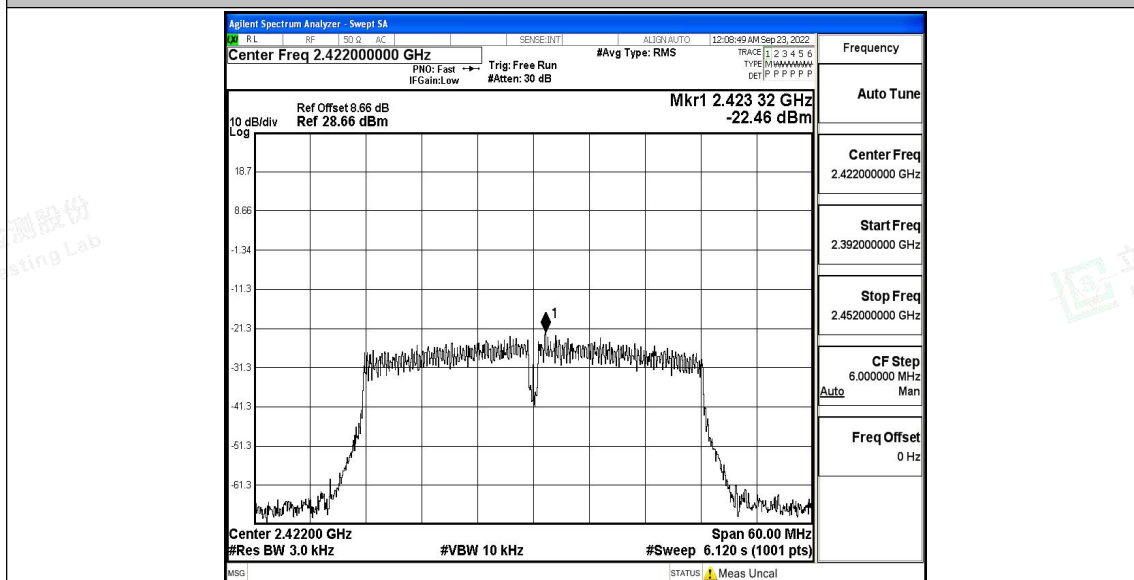
11N20SISO_Ant1_2412





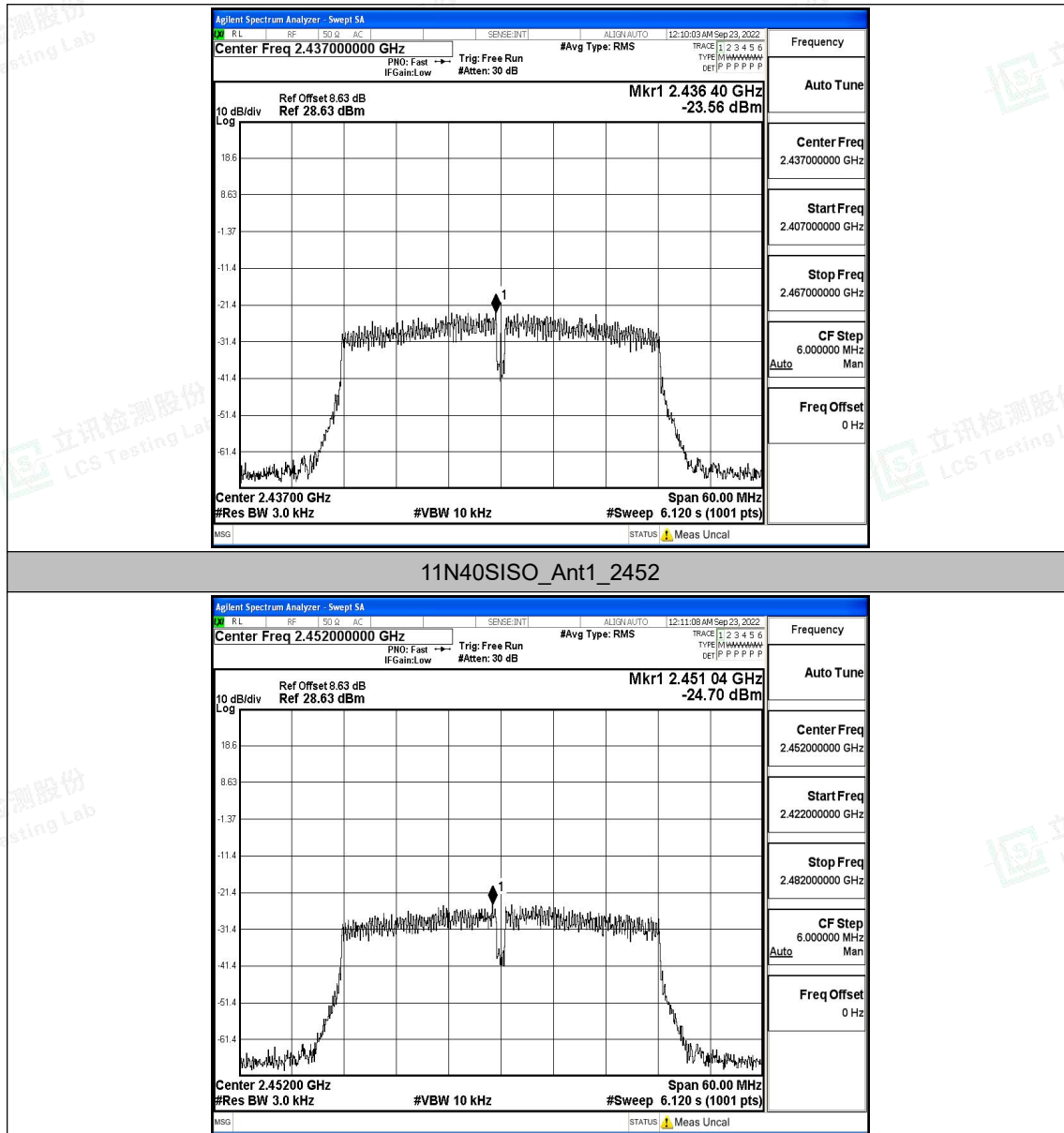


11N40SISO_Ant1_2422



11N40SISO_Ant1_2437







C.5 Band edge measurements

Test Result

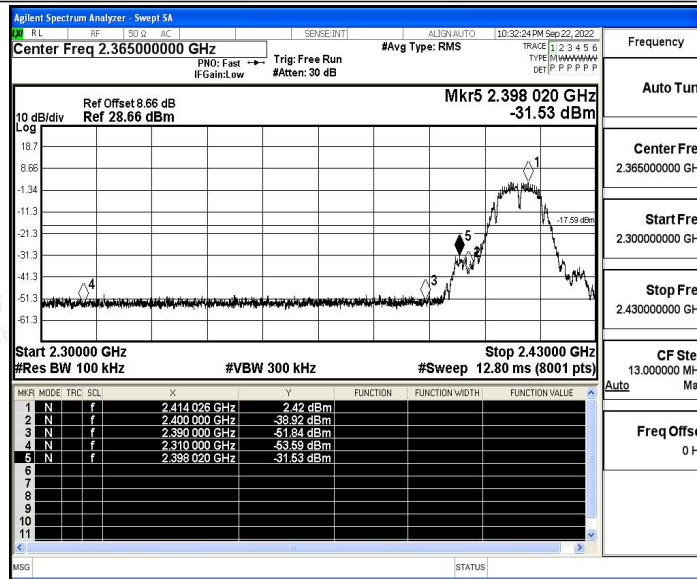
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.42	-31.53	≤-17.59	PASS
		High	2462	1.17	-47.82	≤-18.83	PASS
11G	Ant1	Low	2412	-3.73	-32.05	≤-23.73	PASS
		High	2462	-5.16	-48.66	≤-25.16	PASS
11N20SISO	Ant1	Low	2412	-2.75	-32.46	≤-22.75	PASS
		High	2462	-4.38	-46.68	≤-24.38	PASS
11N40SISO	Ant1	Low	2422	-8.12	-46.67	≤-28.12	PASS
		High	2452	-9.29	-48.56	≤-29.29	PASS



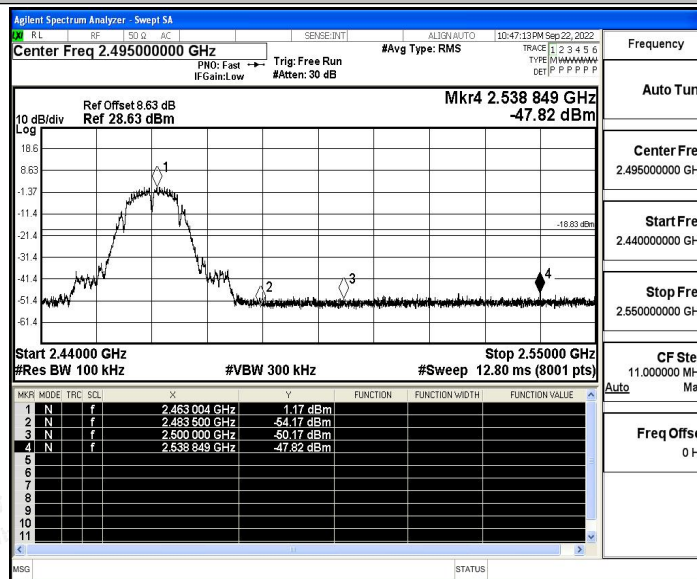


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

