



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Magic 4K plus

Test Model: TV-175R

Environmental Conditions

Temperature:	23.8℃
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Monkey Li
Supervised by:	Li Huan





C.1 DTS Bandwidth

Test Result

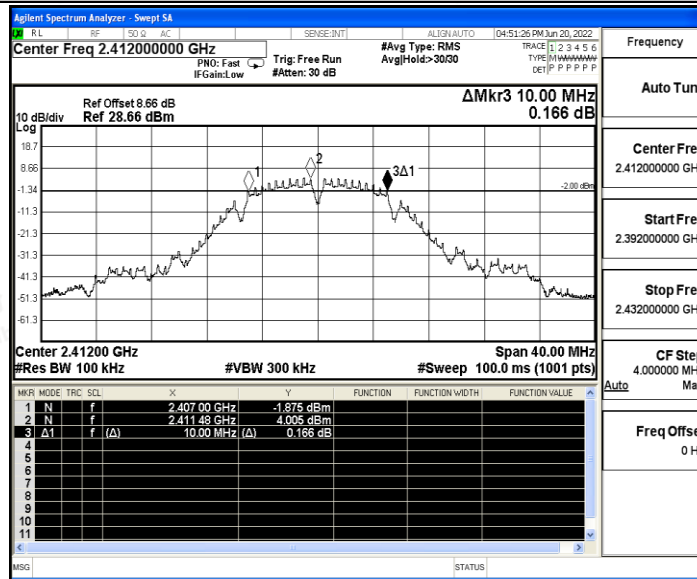
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant0	2412	10.000	2407.000	2417.000	0.5	PASS
		2437	10.040	2431.960	2442.000	0.5	PASS
		2462	10.040	2456.960	2467.000	0.5	PASS
11G	Ant0	2412	15.640	2404.240	2419.880	0.5	PASS
		2437	15.440	2429.440	2444.880	0.5	PASS
		2462	15.400	2454.440	2469.840	0.5	PASS
11N20SISO	Ant0	2412	15.280	2404.440	2419.720	0.5	PASS
		2437	15.440	2429.120	2444.560	0.5	PASS
		2462	15.160	2454.400	2469.560	0.5	PASS
11N40SISO	Ant0	2422	35.120	2404.400	2439.520	0.5	PASS
		2437	35.680	2419.480	2455.160	0.5	PASS
		2452	35.280	2434.240	2469.520	0.5	PASS



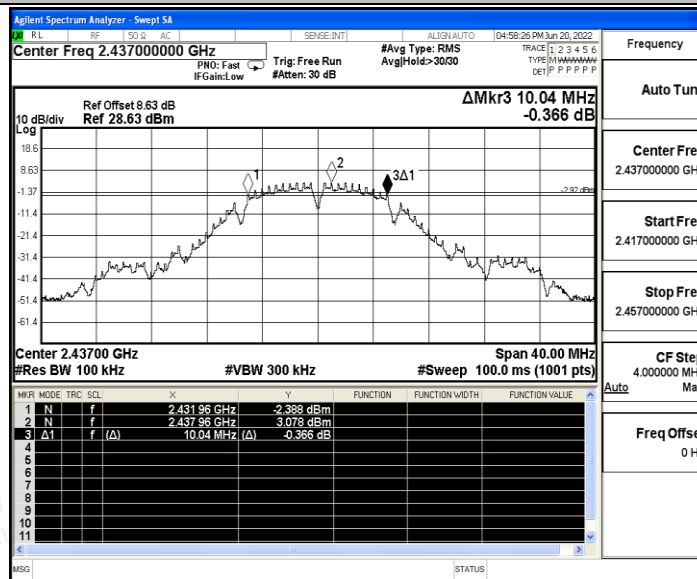


Test Graphs

11B_Ant0_2412

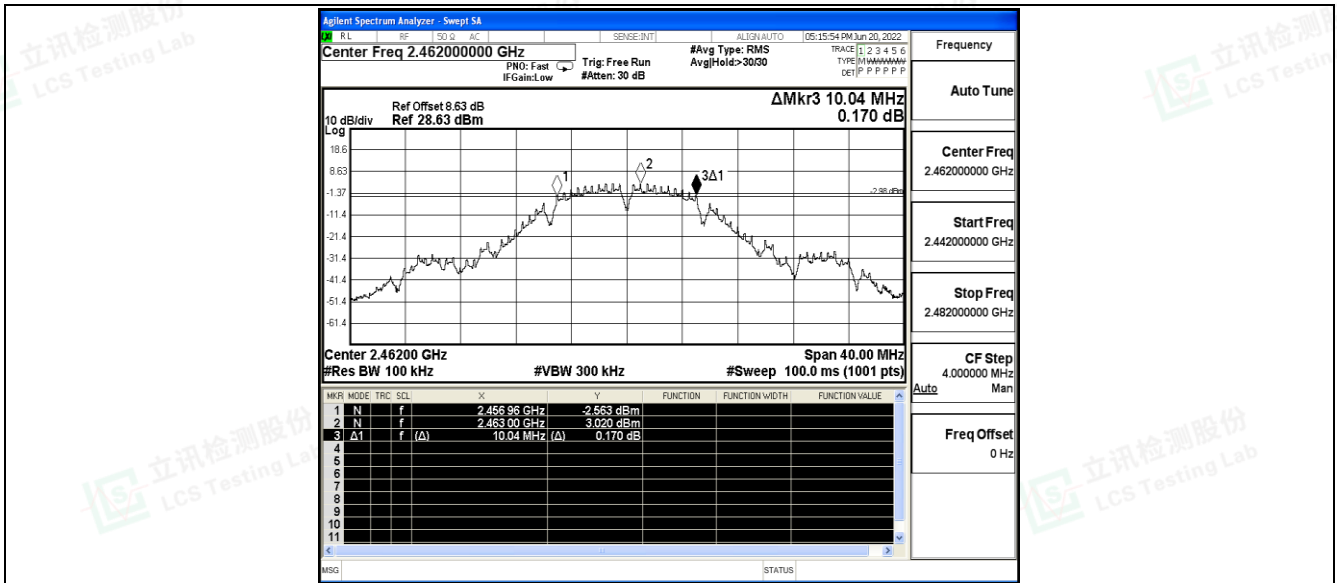


11B_Ant0_2437

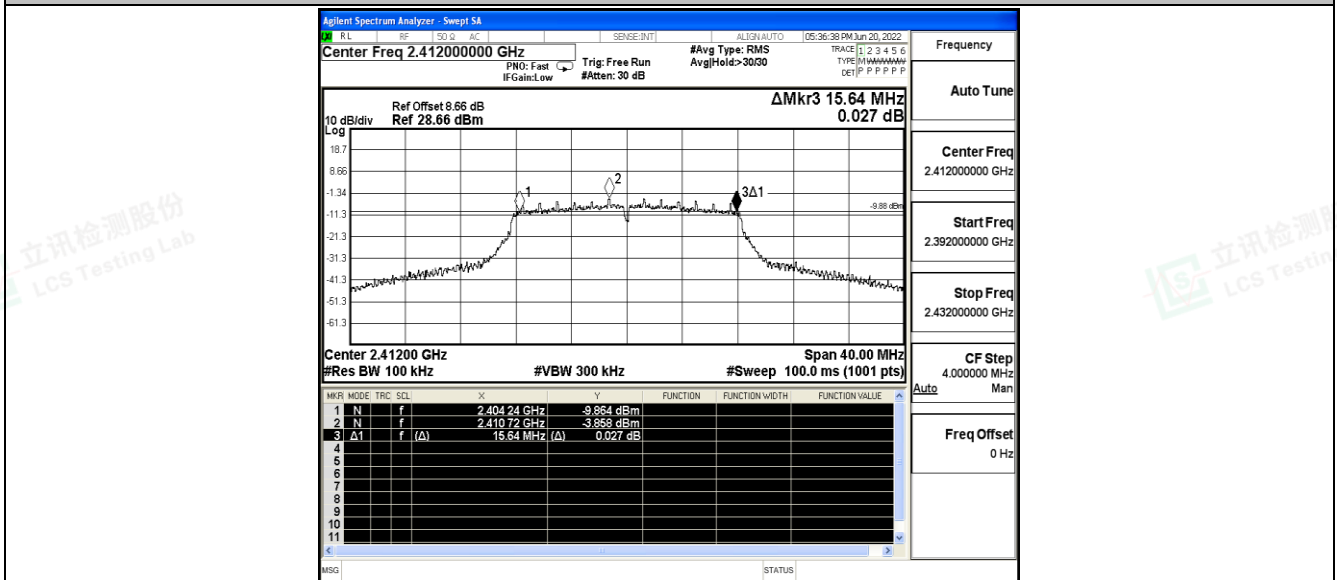


11B_Ant0_2462



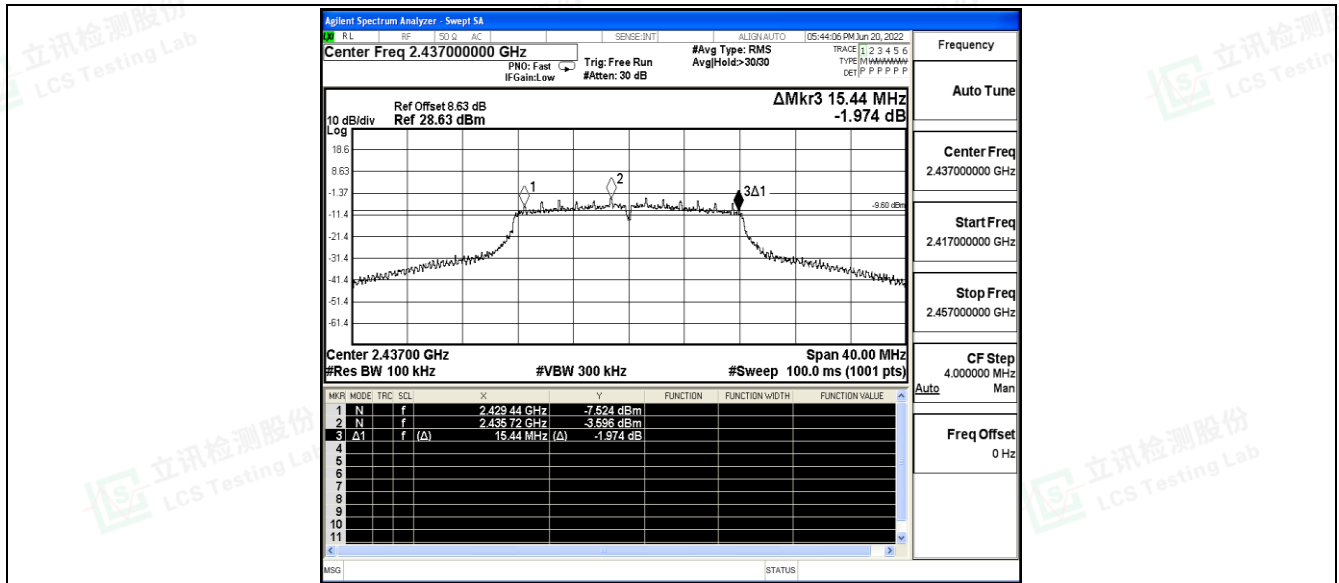


11G_Ant0_2412

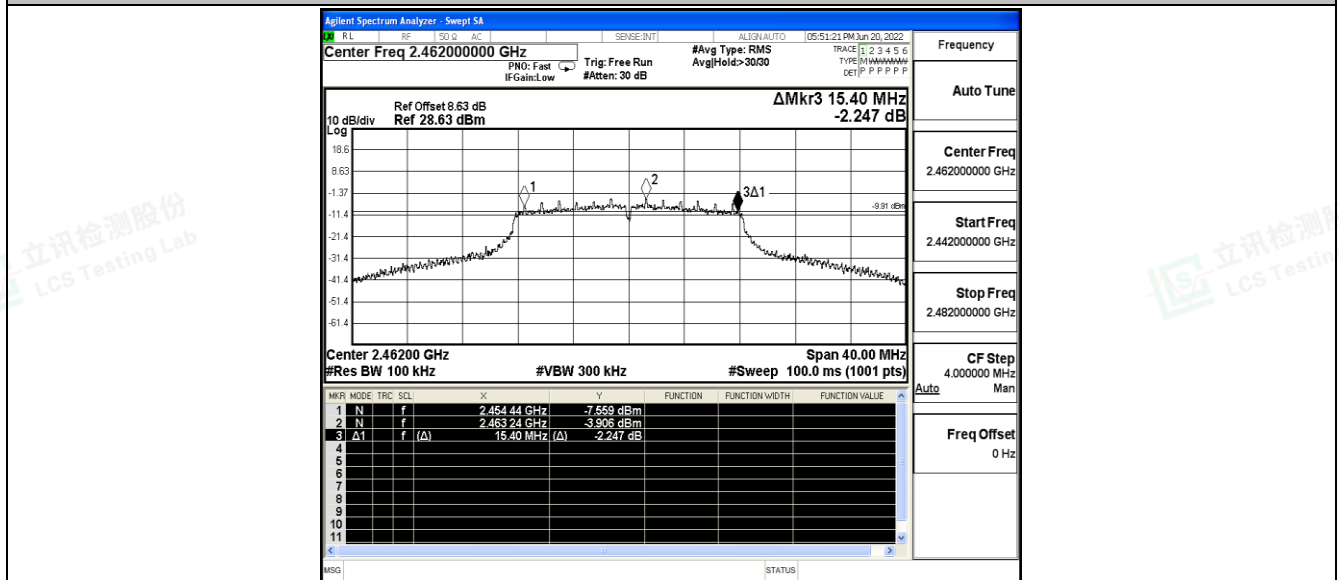


11G_Ant0_2437



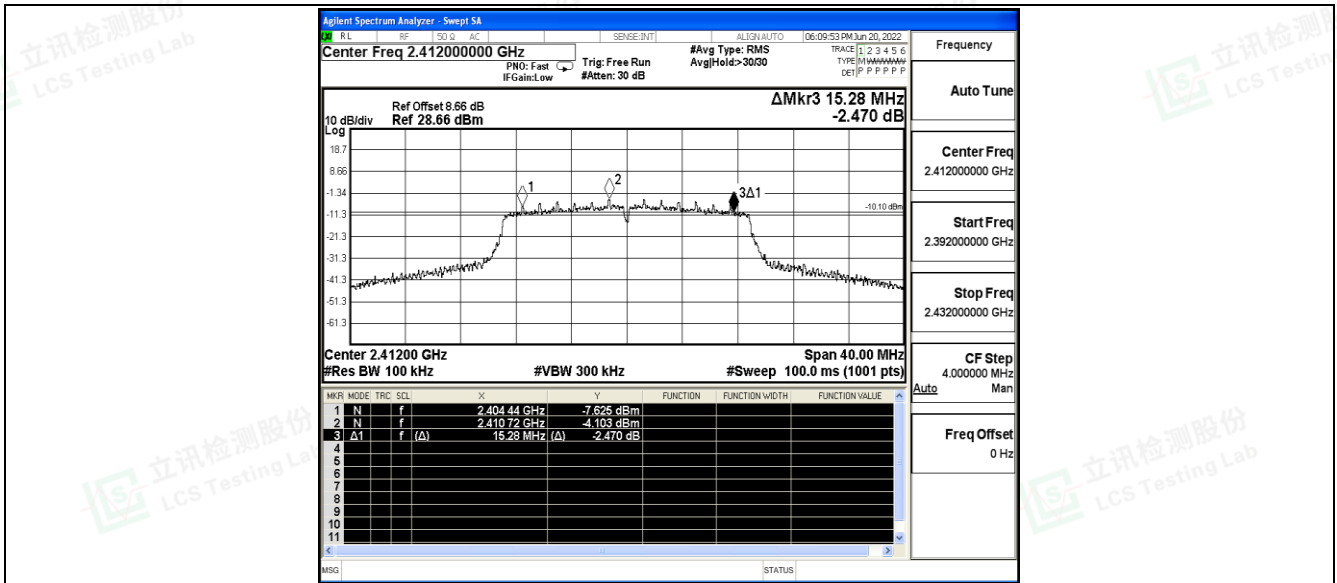


11G_Ant0_2462

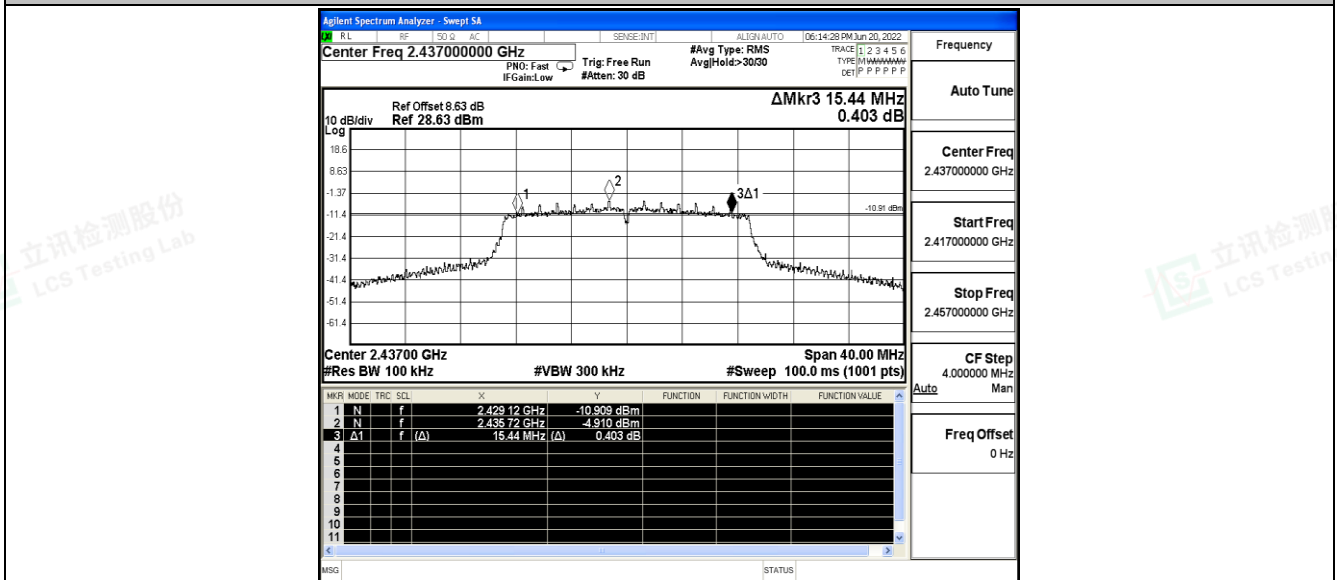


11N20SISO_Ant0_2412



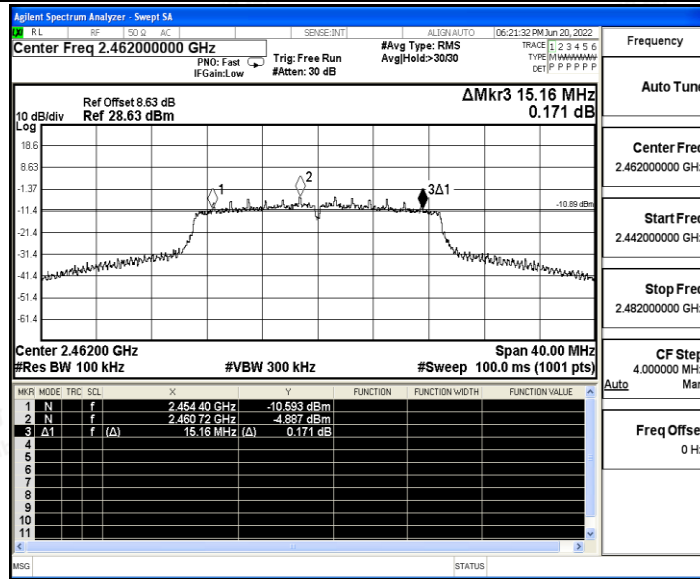


11N20SISO_Ant0_2437

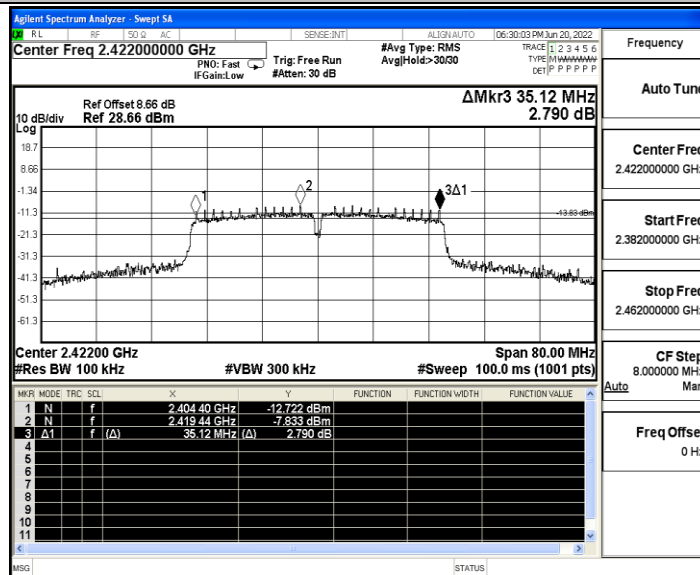


11N20SISO_Ant0_2462





11N40SISO_Ant0_2422



11N40SISO_Ant0_2437





**Test Result**

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.000	2407.000	2417.000	0.5	PASS
		2437	10.040	2431.960	2442.000	0.5	PASS
		2462	9.080	2457.440	2466.520	0.5	PASS
11G	Ant1	2412	15.120	2404.440	2419.560	0.5	PASS
		2437	15.160	2429.400	2444.560	0.5	PASS
		2462	15.560	2454.200	2469.760	0.5	PASS
11N20SISO	Ant1	2412	15.920	2404.440	2420.360	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.560	2453.200	2470.760	0.5	PASS
11N40SISO	Ant1	2422	36.080	2404.080	2440.160	0.5	PASS
		2437	35.120	2419.400	2454.520	0.5	PASS
		2452	36.080	2433.840	2469.920	0.5	PASS

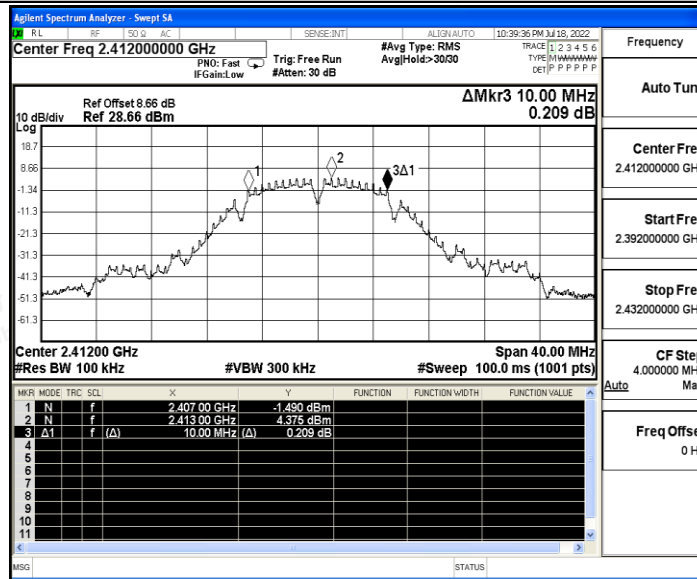


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Scan code to check authenticity

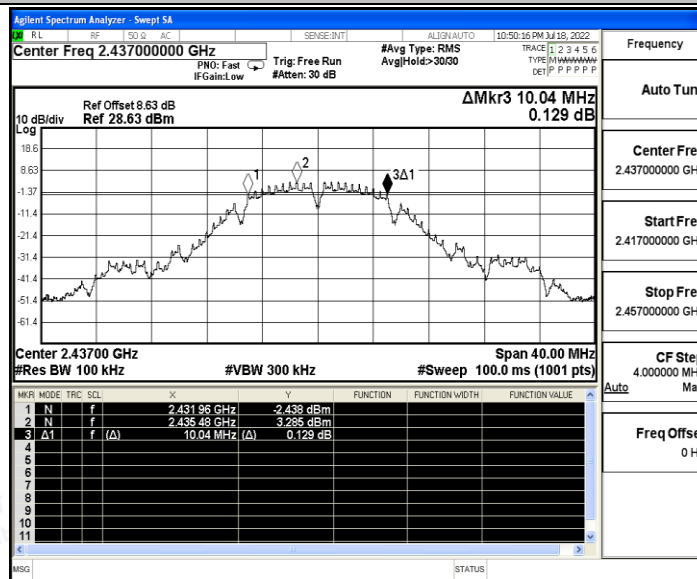


Test Graphs

11B_Ant1_2412

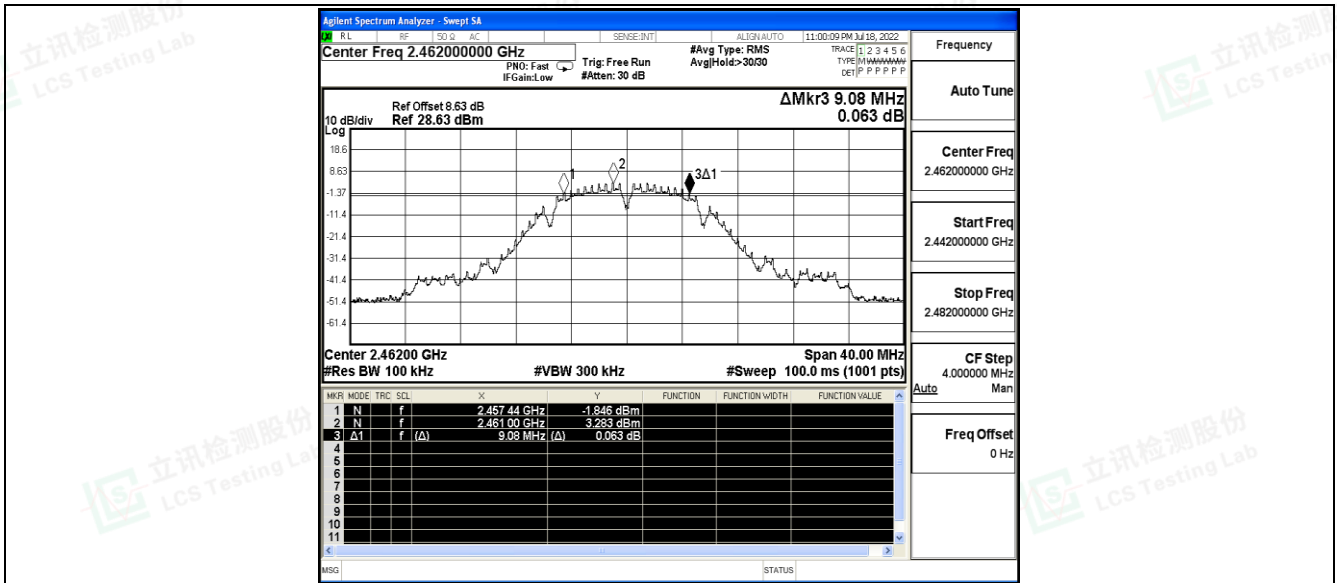


11B_Ant1_2437

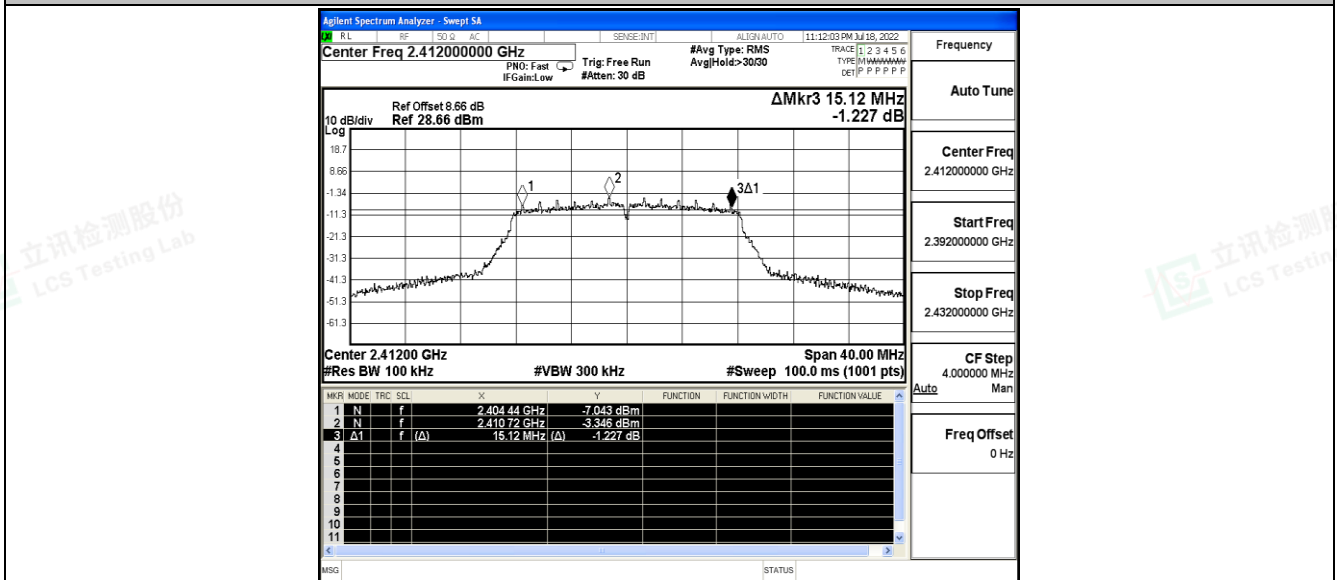


11B_Ant1_2462



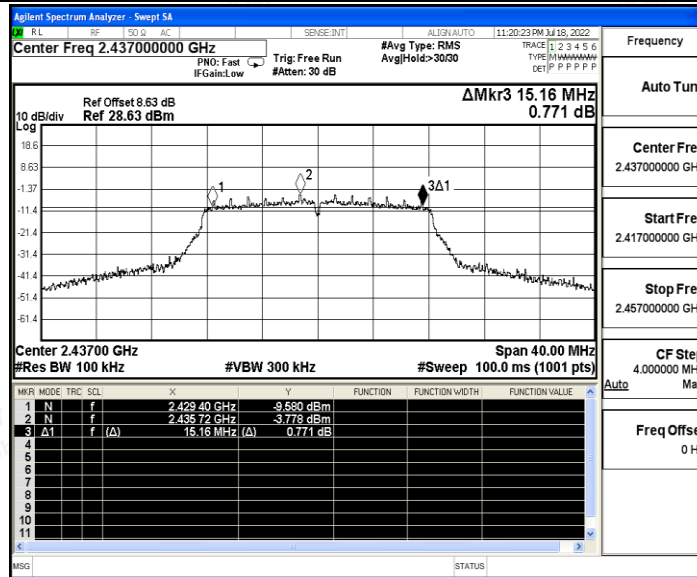


11G_Ant1_2412

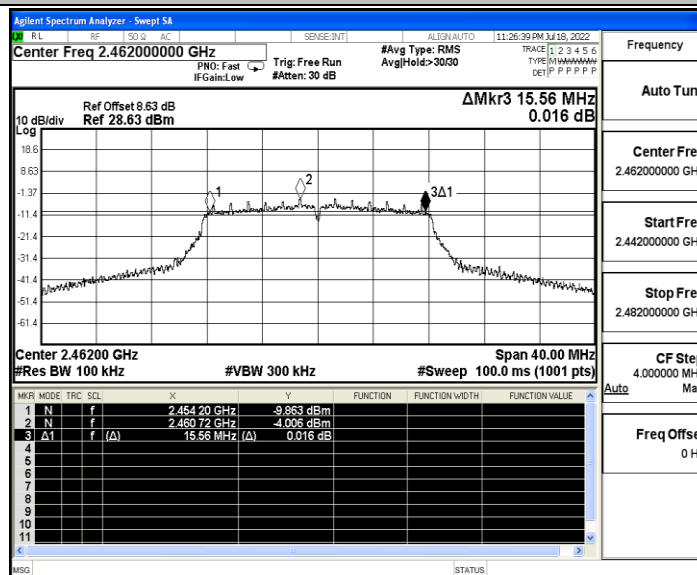


11G_Ant1_2437



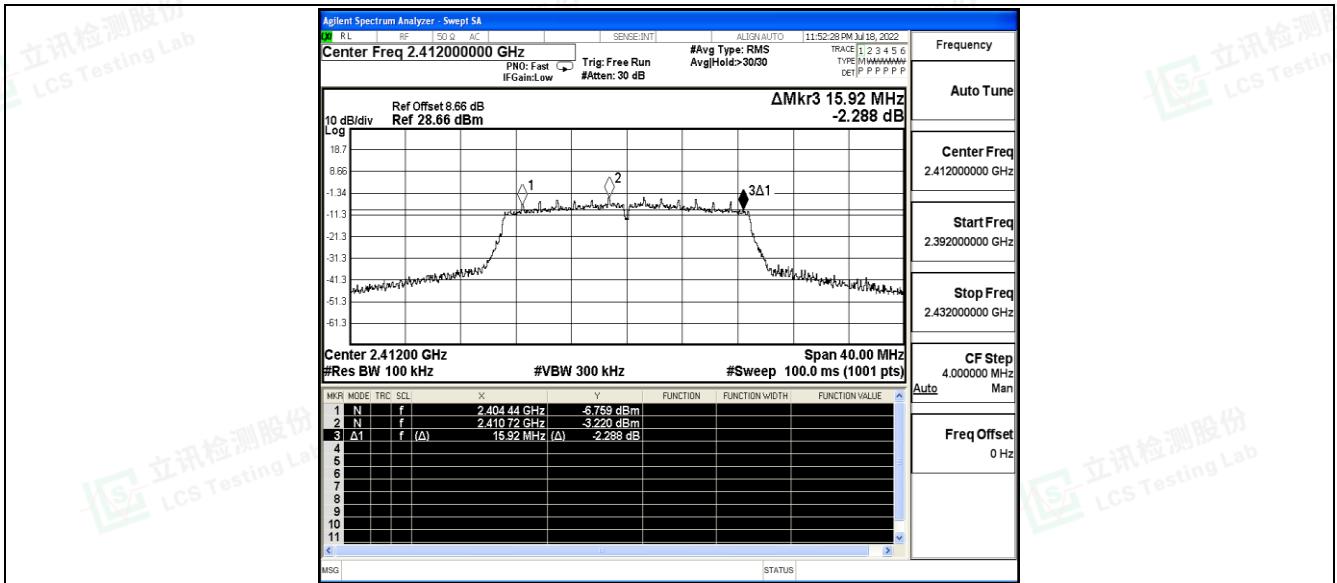


11G_Ant1_2462

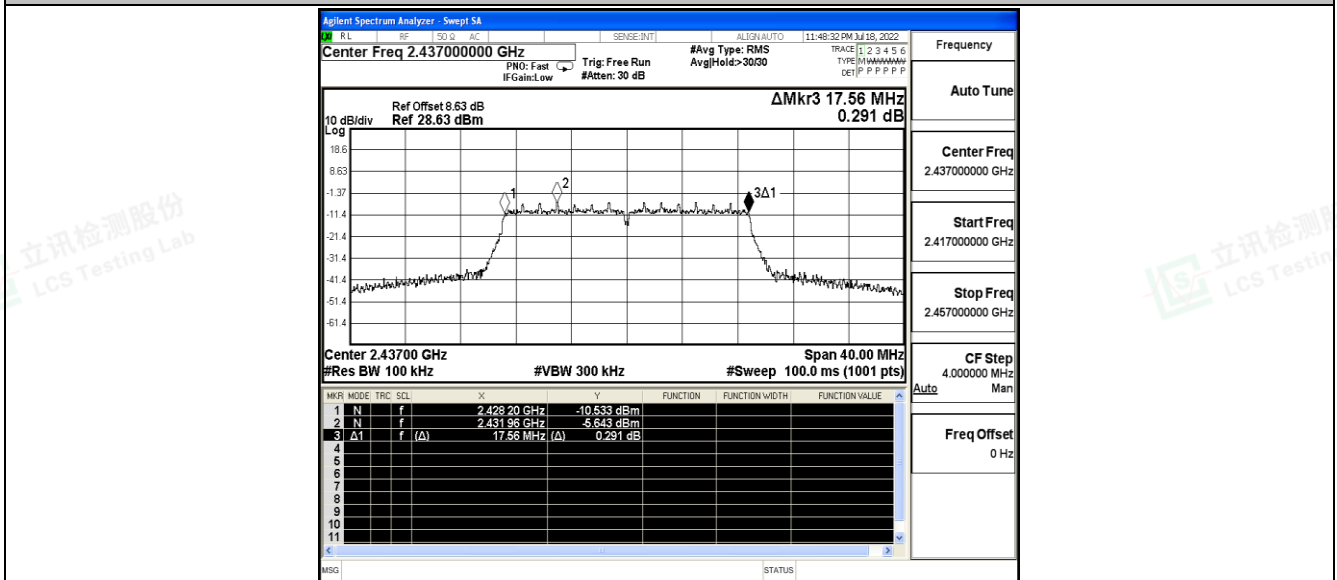


11N20SISO_Ant1_2412



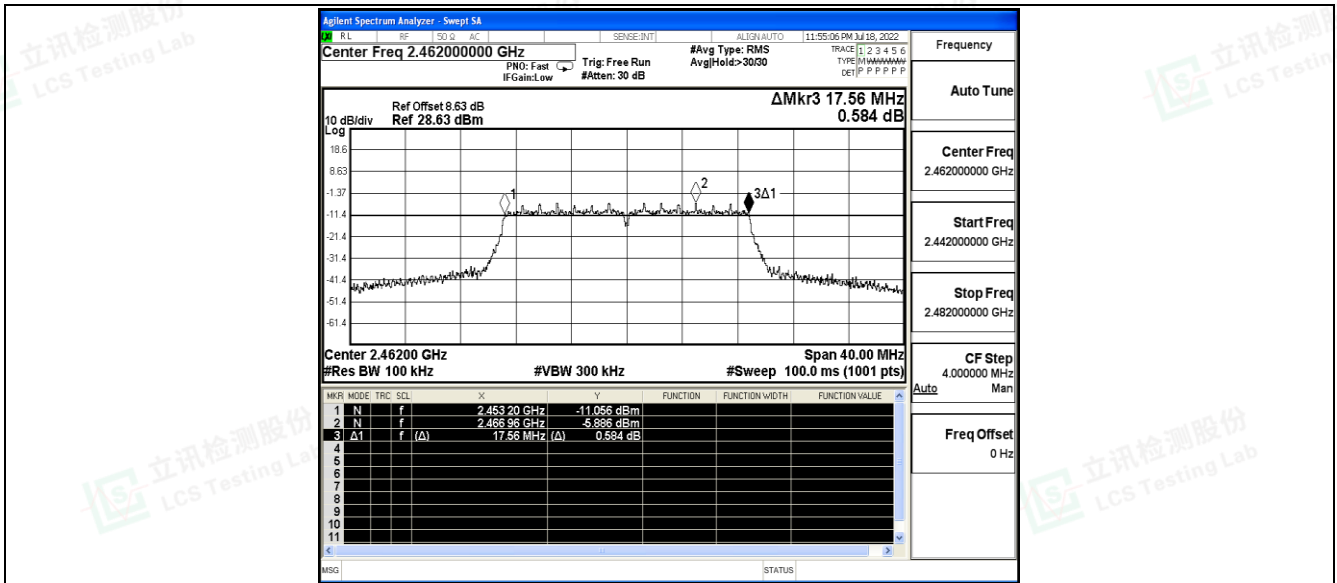


11N20SISO_Ant1_2437

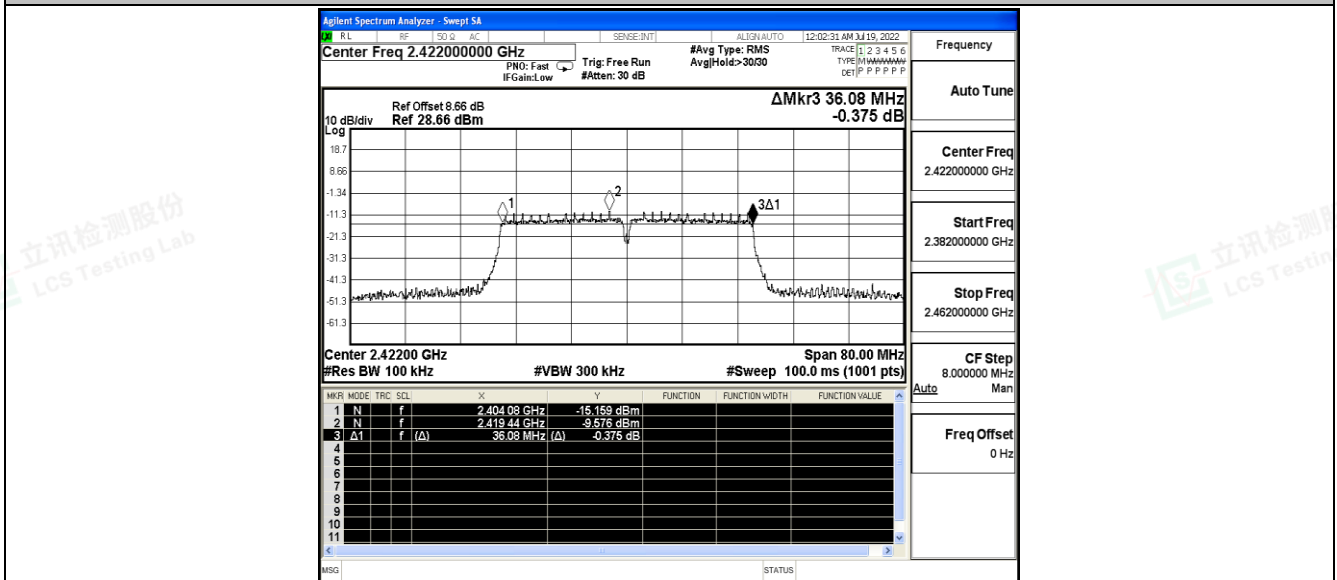


11N20SISO_Ant1_2462



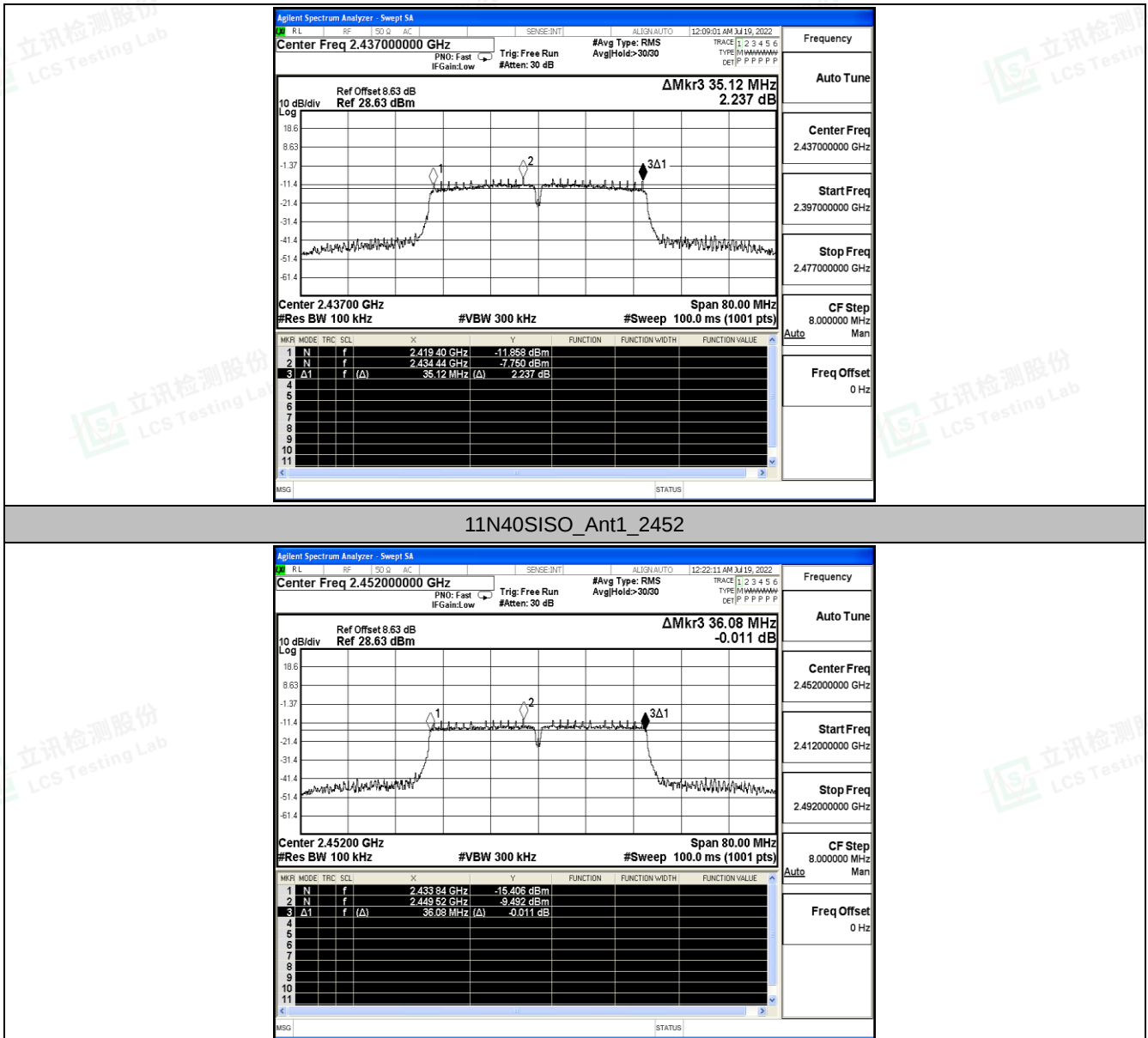


11N40SISO_Ant1_2422



11N40SISO_Ant1_2437







C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant0	2412	---	16.00	≤30.00	PASS
		2437	---	15.38	≤30.00	PASS
		2462	---	15.02	≤30.00	PASS
11G	Ant0	2412	---	14.72	≤30.00	PASS
		2437	---	14.88	≤30.00	PASS
		2462	---	14.51	≤30.00	PASS
11N20SISO	Ant0	2412	---	13.69	≤30.00	PASS
		2437	---	13.61	≤30.00	PASS
		2462	---	13.46	≤30.00	PASS
11N40SISO	Ant0	2422	---	15.05	≤30.00	PASS
		2437	---	12.98	≤30.00	PASS
		2452	---	12.92	≤30.00	PASS

TestMode	Antenna	Frequency[MHz]	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	---	16.25	≤30.00	PASS
		2437	---	15.36	≤30.00	PASS
		2462	---	15.05	≤30.00	PASS
11G	Ant1	2412	---	15.25	≤30.00	PASS
		2437	---	14.78	≤30.00	PASS
		2462	---	14.55	≤30.00	PASS
11N20SISO	Ant1	2412	---	14.47	≤30.00	PASS
		2437	---	13.90	≤30.00	PASS
		2462	---	13.50	≤30.00	PASS
11N40SISO	Ant1	2422	---	12.59	≤30.00	PASS
		2437	---	13.92	≤30.00	PASS
		2452	---	12.70	≤30.00	PASS



**MIMO**

TestMode	Frequency[MHz]	EIRP[dBm]			Conducted Limit[dBm]	Verdict
		ANT0	ANT1	MIMO		
11N20SIS O	2412	13.69	14.47	17.11	≤30.00	PASS
	2437	13.61	13.90	16.77	≤30.00	PASS
	2462	13.46	13.50	16.49	≤30.00	PASS
11N40SIS O	2422	15.05	12.59	17.00	≤30.00	PASS
	2437	12.98	13.92	16.49	≤30.00	PASS
	2452	12.92	12.70	15.82	≤30.00	PASS





C.3 Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant0	2412	-11.04	≤8.00	PASS
		2437	-10.42	≤8.00	PASS
		2462	-9.09	≤8.00	PASS
11G	Ant0	2412	-18.22	≤8.00	PASS
		2437	-18.14	≤8.00	PASS
		2462	-18.52	≤8.00	PASS
11N20SISO	Ant0	2412	-19.68	≤8.00	PASS
		2437	-20.08	≤8.00	PASS
		2462	-19.33	≤8.00	PASS
11N40SISO	Ant0	2422	-19.59	≤8.00	PASS
		2437	-23.4	≤8.00	PASS
		2452	-22.86	≤8.00	PASS

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.32	≤8.00	PASS
		2437	-8.89	≤8.00	PASS
		2462	-11.29	≤8.00	PASS
11G	Ant1	2412	-17.8	≤8.00	PASS
		2437	-17.95	≤8.00	PASS
		2462	-18.12	≤8.00	PASS
11N20SISO	Ant1	2412	-19.78	≤8.00	PASS
		2437	-20.26	≤8.00	PASS
		2462	-20.26	≤8.00	PASS
11N40SISO	Ant1	2422	-24.16	≤8.00	PASS
		2437	-22.9	≤8.00	PASS
		2452	-23.64	≤8.00	PASS



**MIMO**

TestMode	Frequency[MHz]	Result[dBm/3kHz]			Limit[dBm/3kHz]	Verdict
		ANT0	ANT1	MIMO		
11N20SISO	2412	-19.68	-19.78	-16.72	≤7.99	PASS
	2437	-20.08	-20.26	-17.16	≤7.99	PASS
	2462	-19.33	-20.26	-16.76	≤7.99	PASS
11N40SISO	2422	-19.59	-24.16	-18.29	≤7.99	PASS
	2437	-23.4	-22.9	-20.13	≤7.99	PASS
	2452	-22.86	-23.64	-20.22	≤7.99	PASS

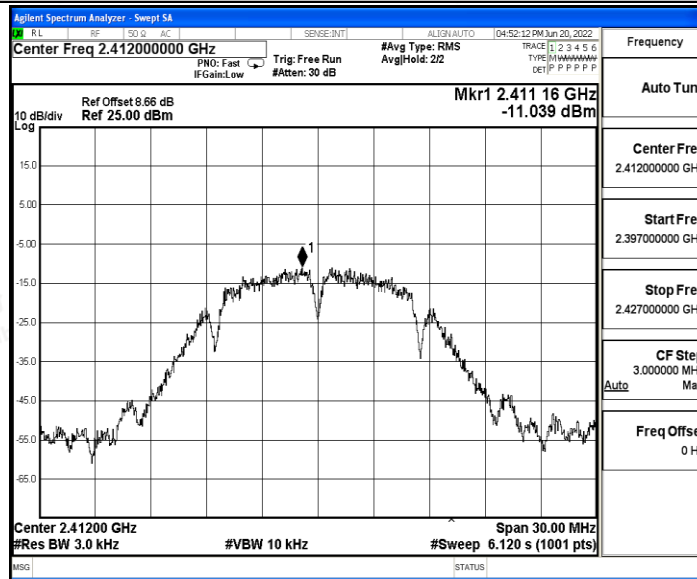


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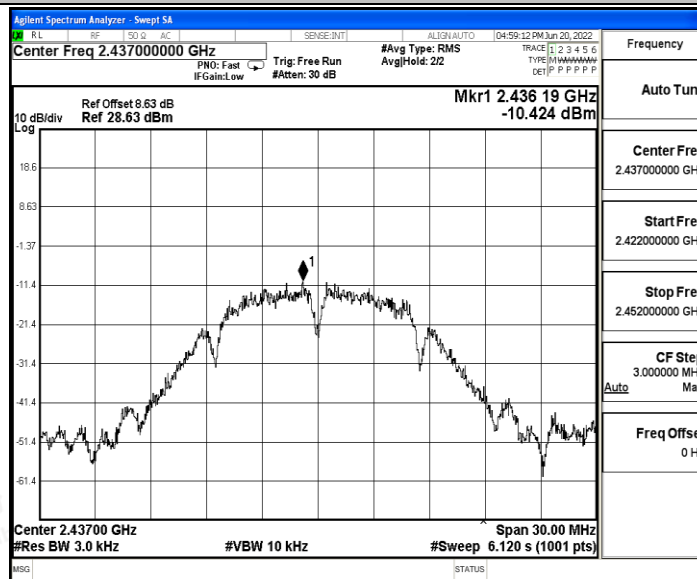


Test Graphs

11B_Ant0_2412

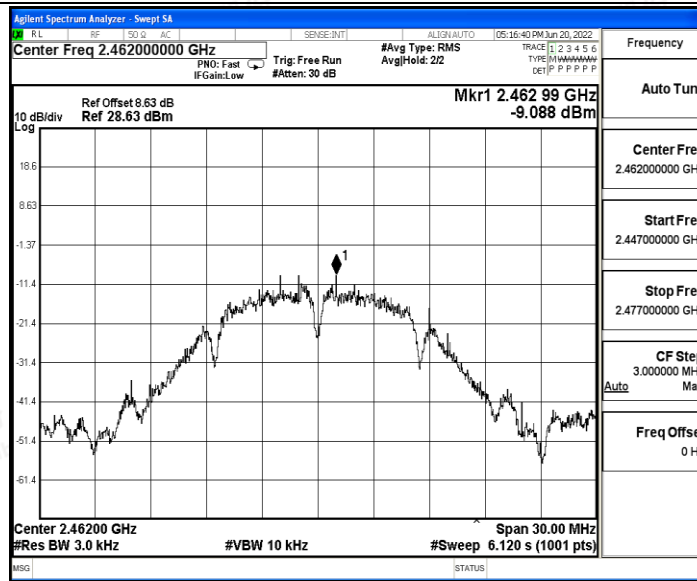


11B_Ant0_2437

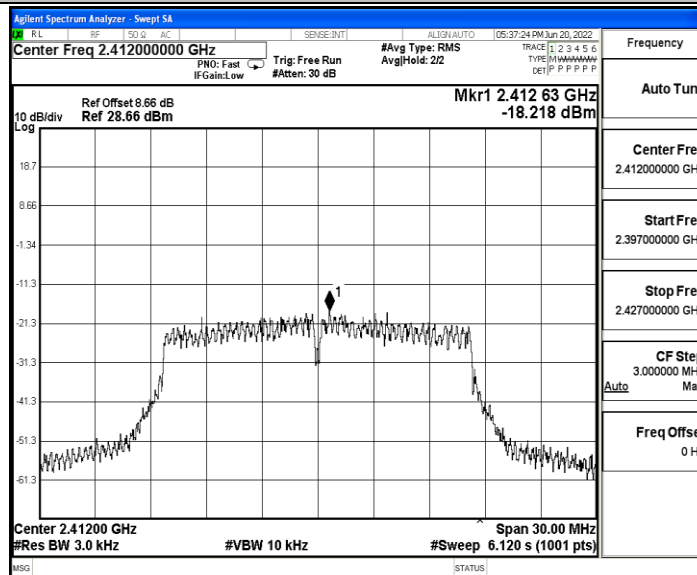


11B_Ant0_2462



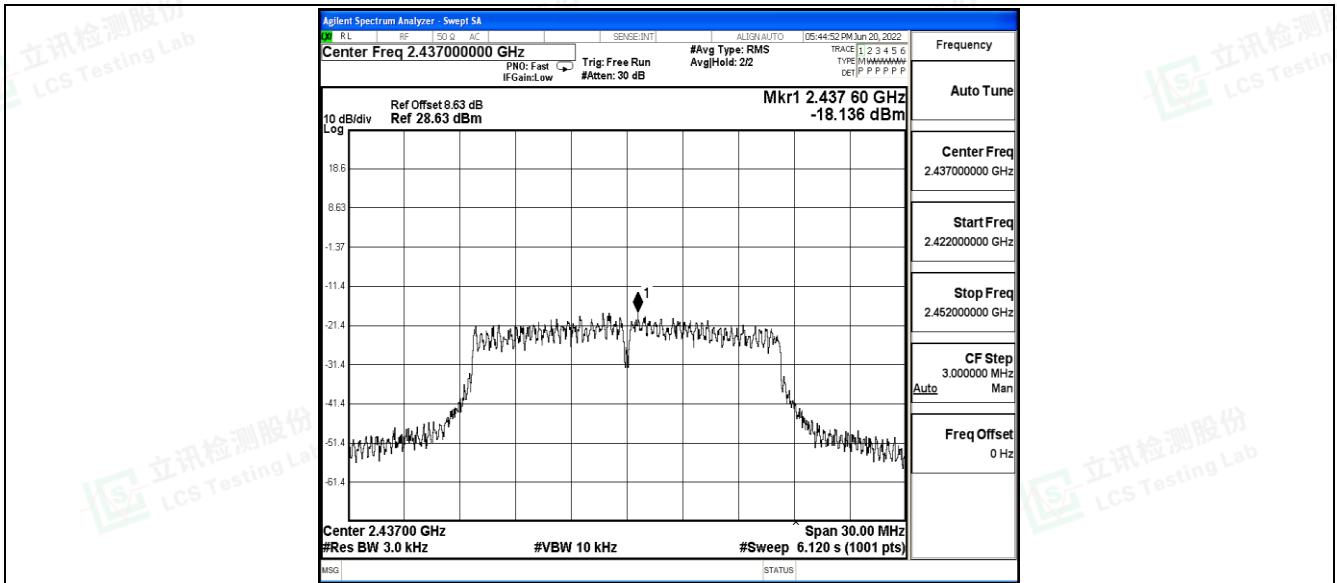


11G_Ant0_2412

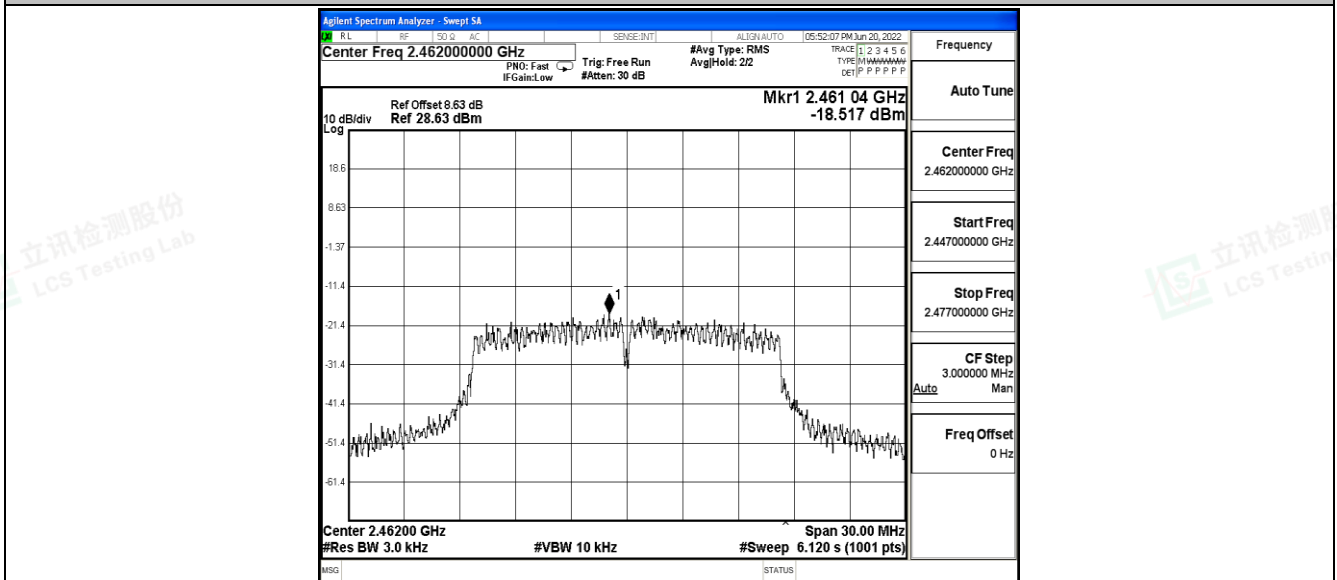


11G_Ant0_2437



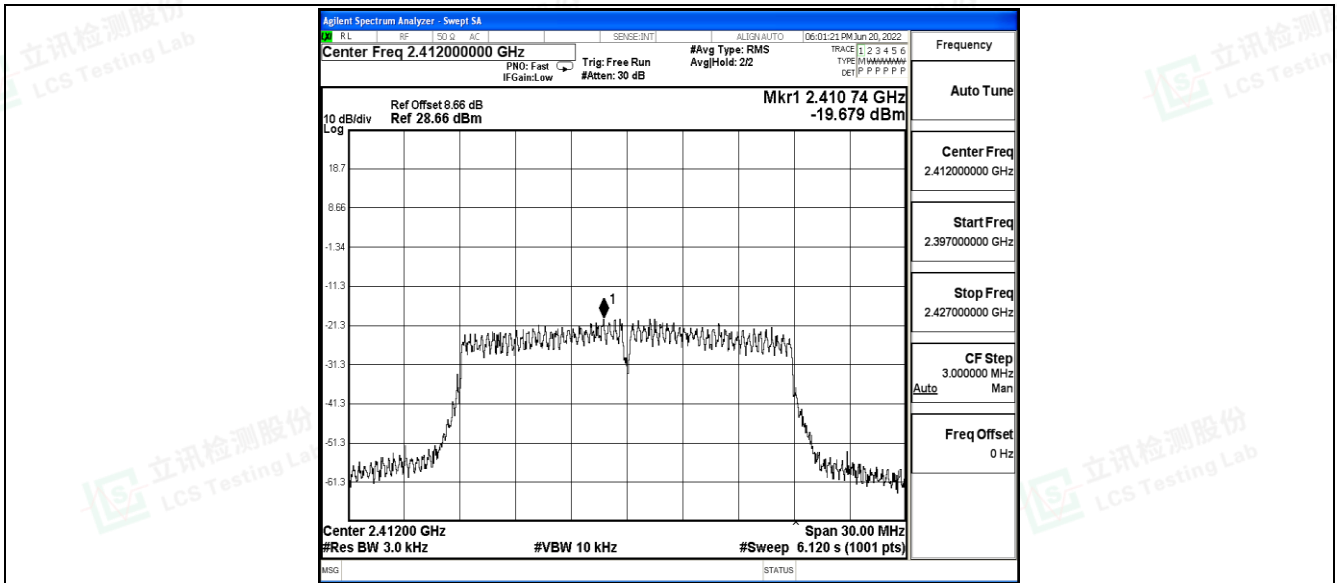


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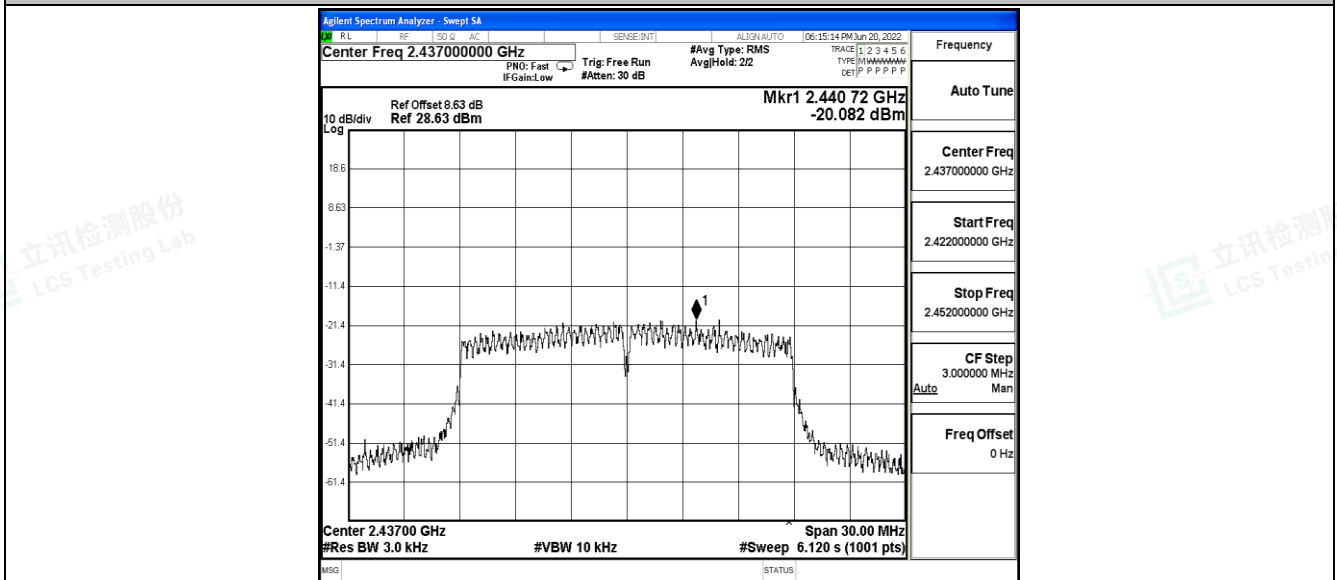


11N20SISO_Ant0_2412



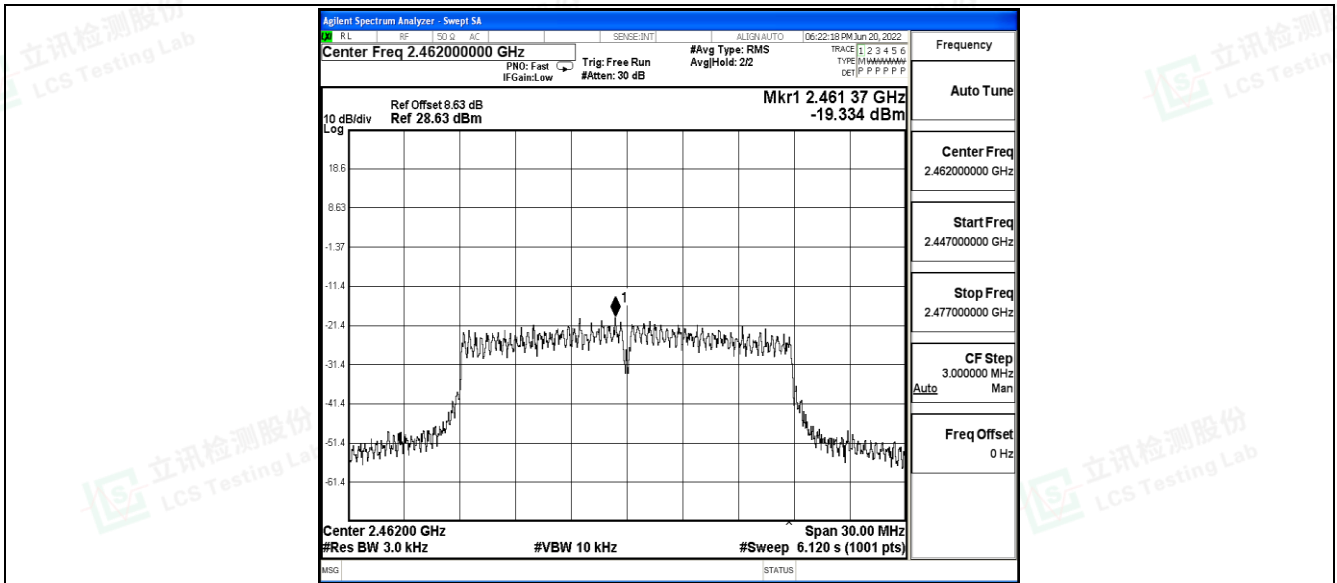


11N20SISO_Ant0_2437

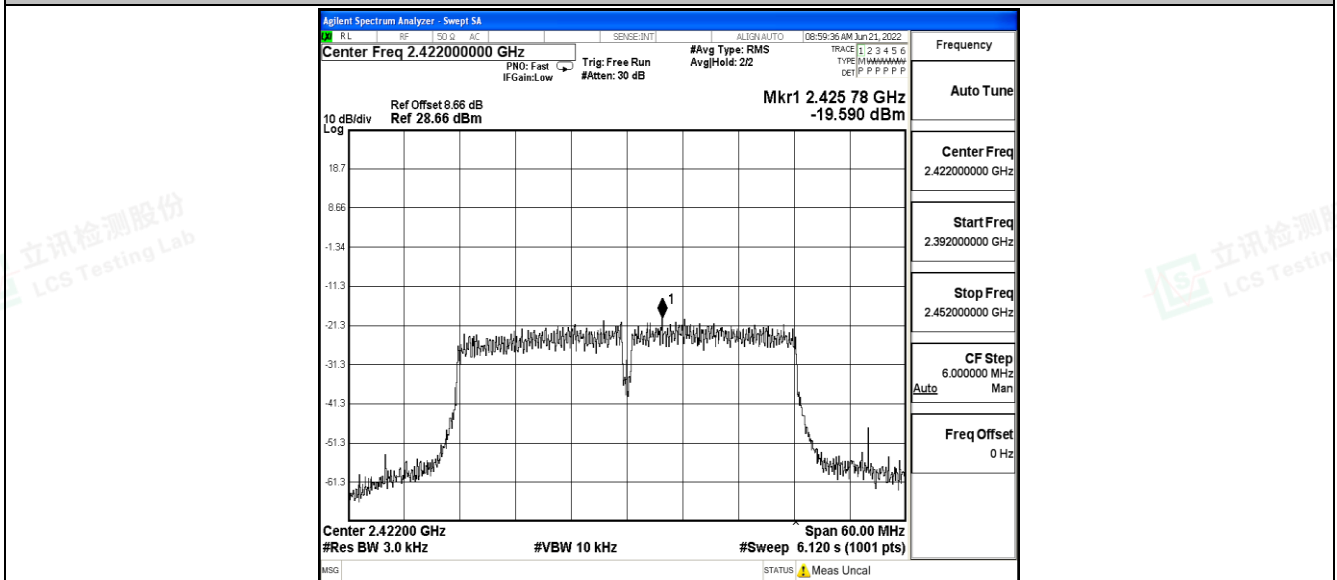


11N20SISO_Ant0_2462



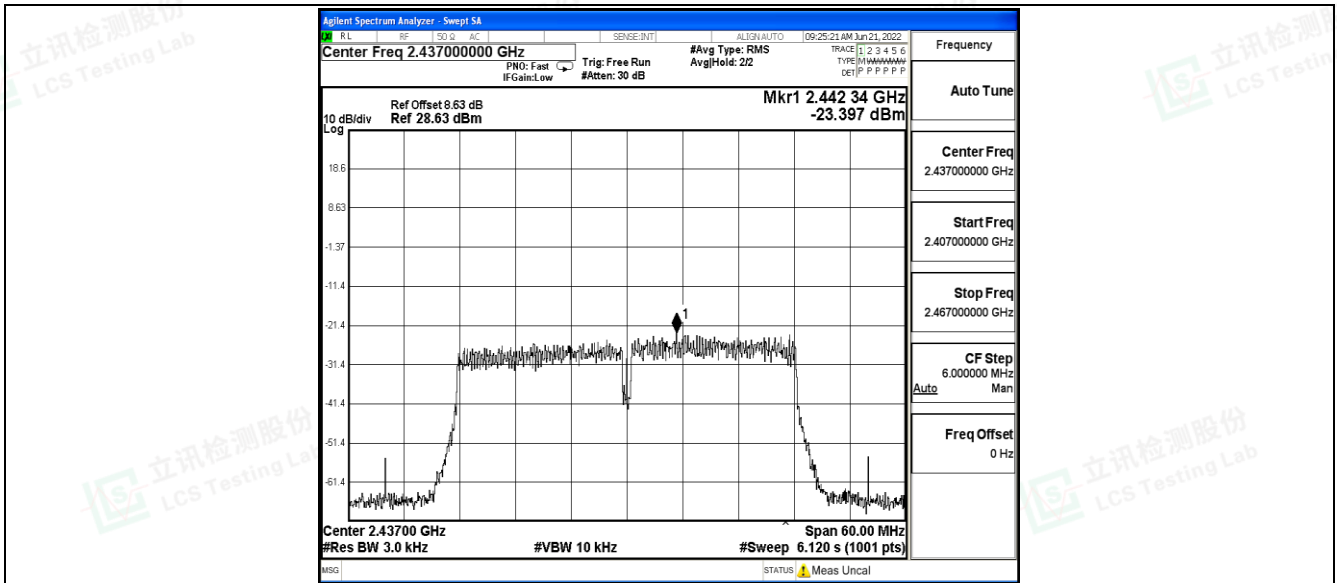


11N40SISO_Ant0_2422

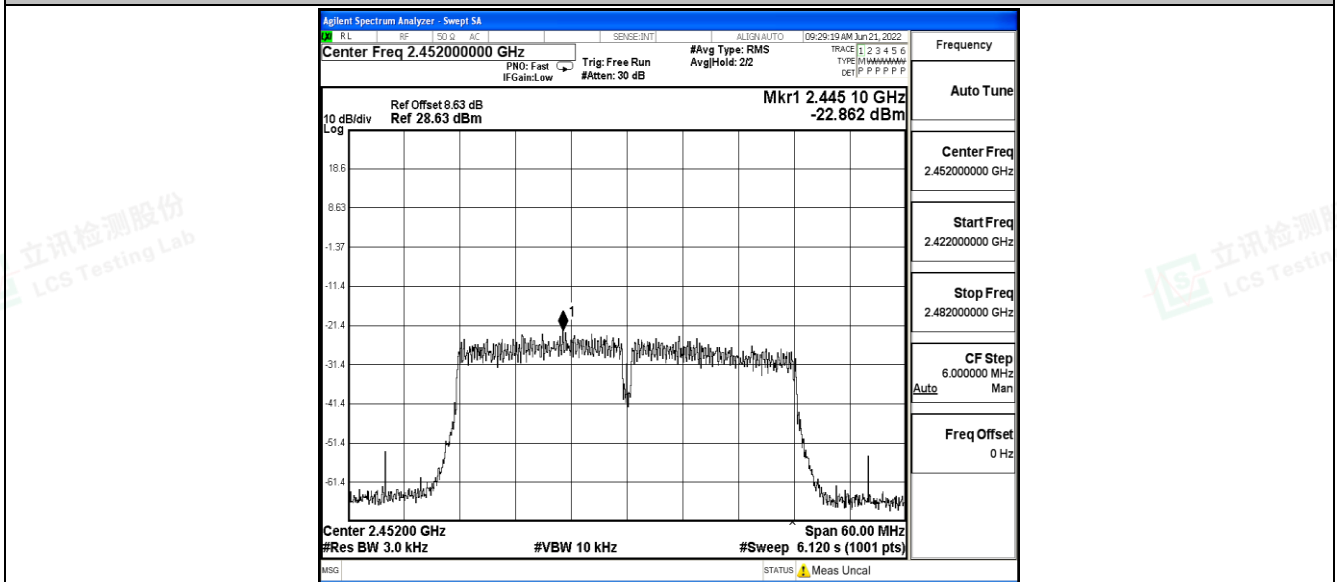


11N40SISO_Ant0_2437



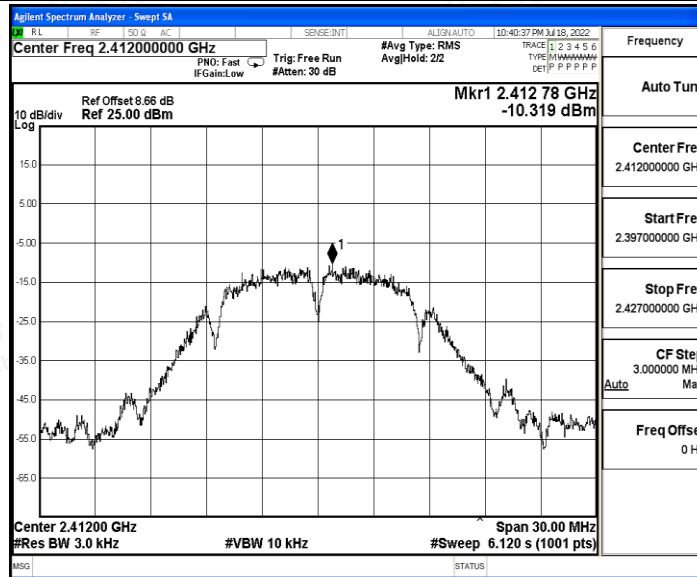


11N40SISO_Ant0_2452

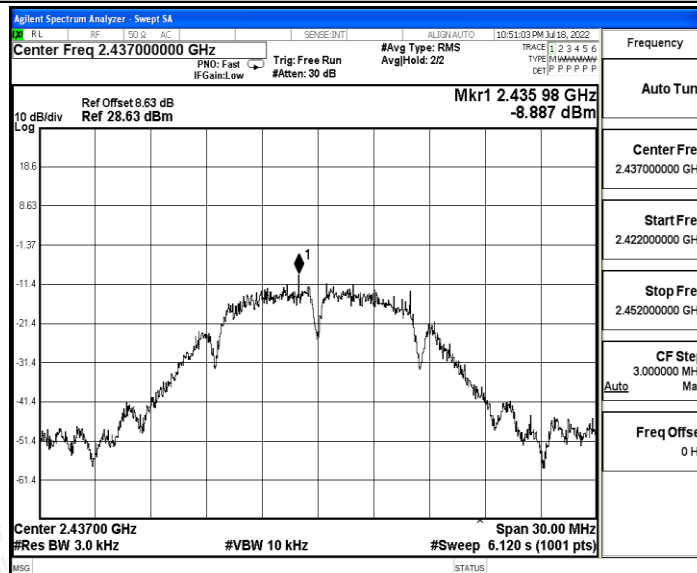




11B_Ant1_2412

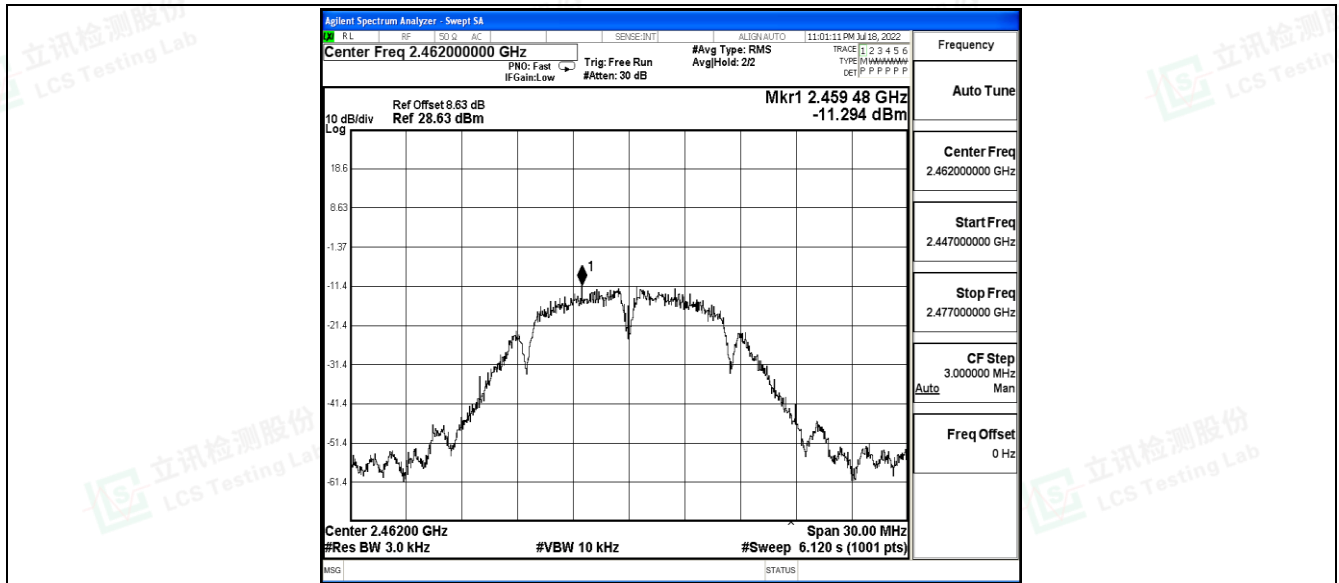


11B_Ant1_2437

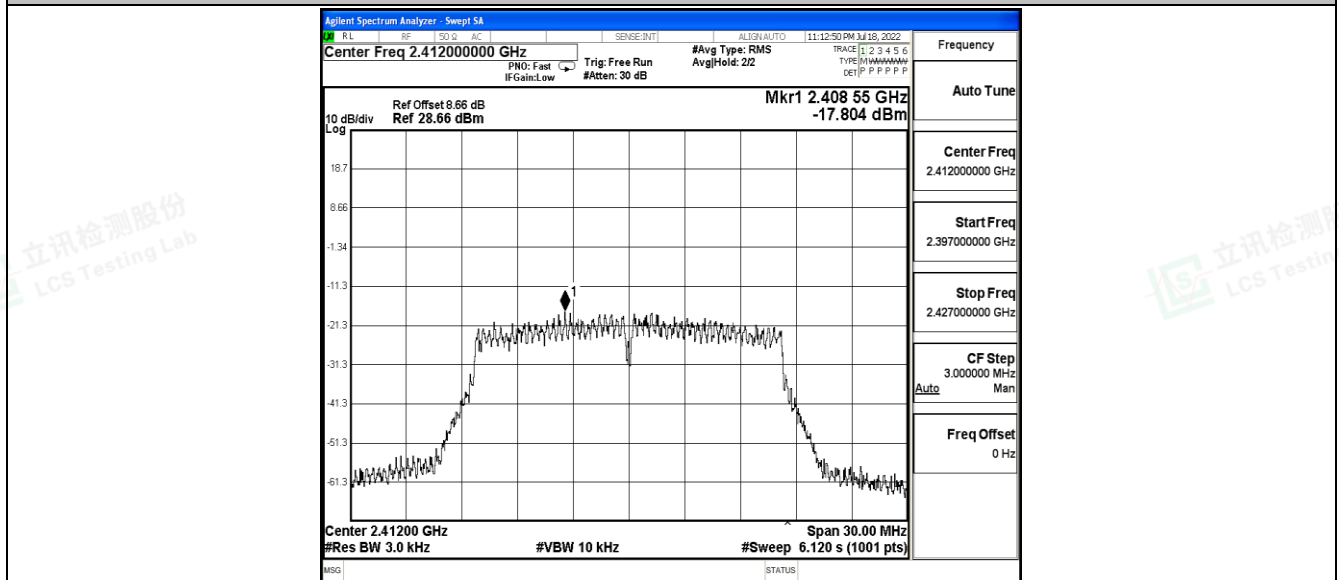


11B_Ant1_2462



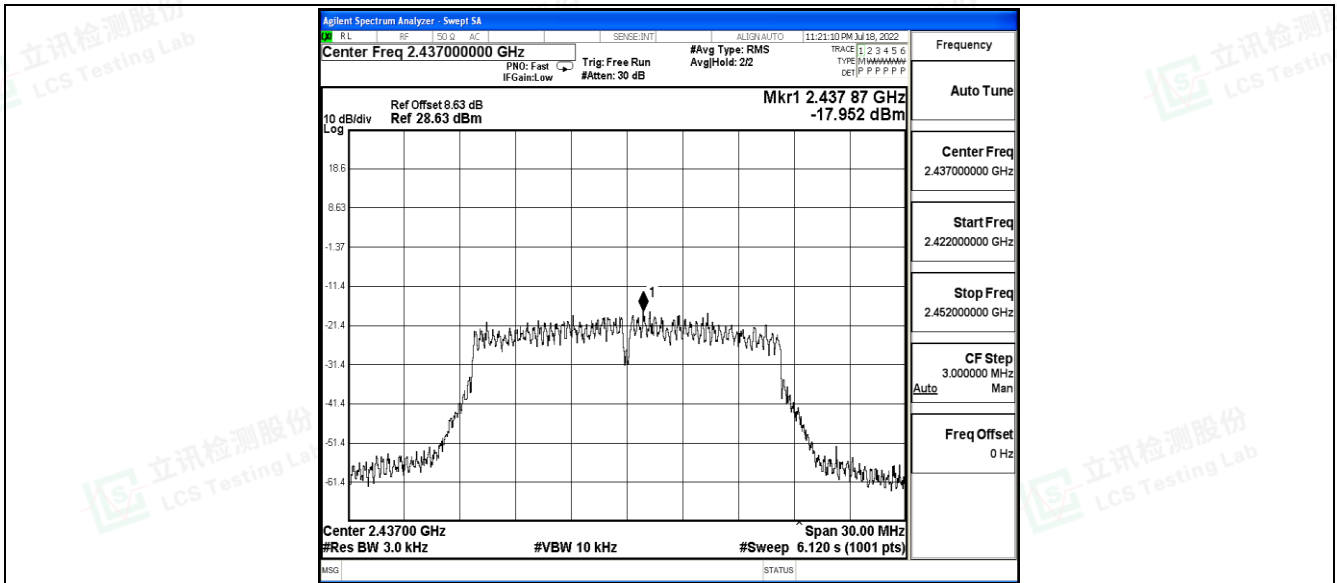


11G_Ant1_2412

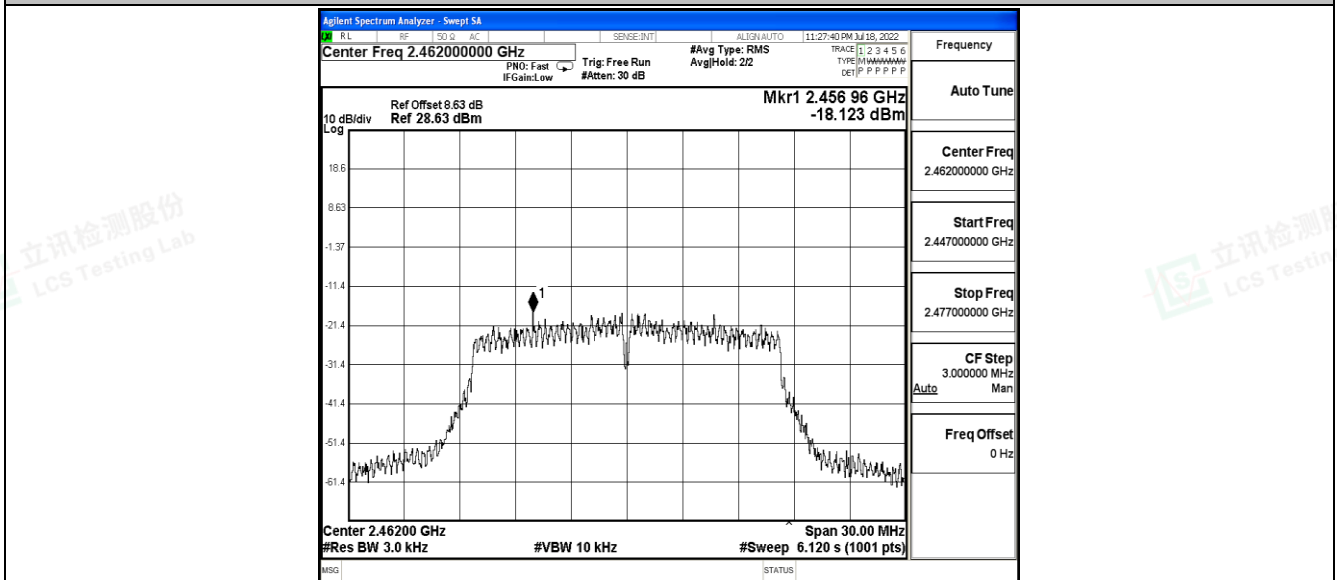


11G_Ant1_2437



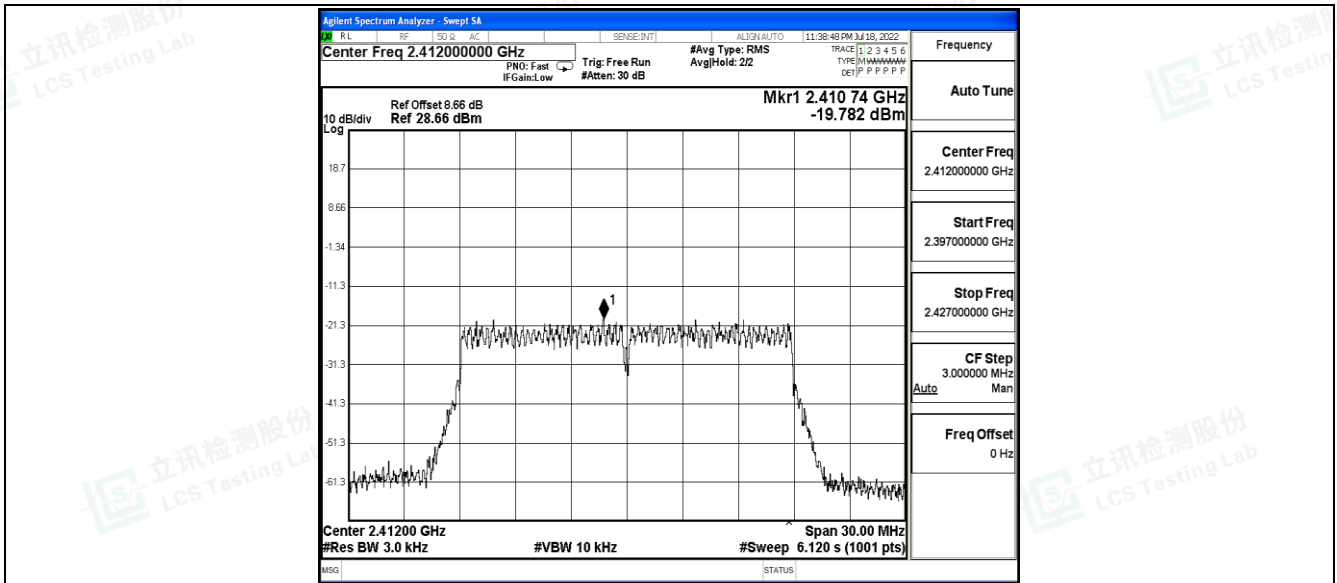


11G_Ant1_2462

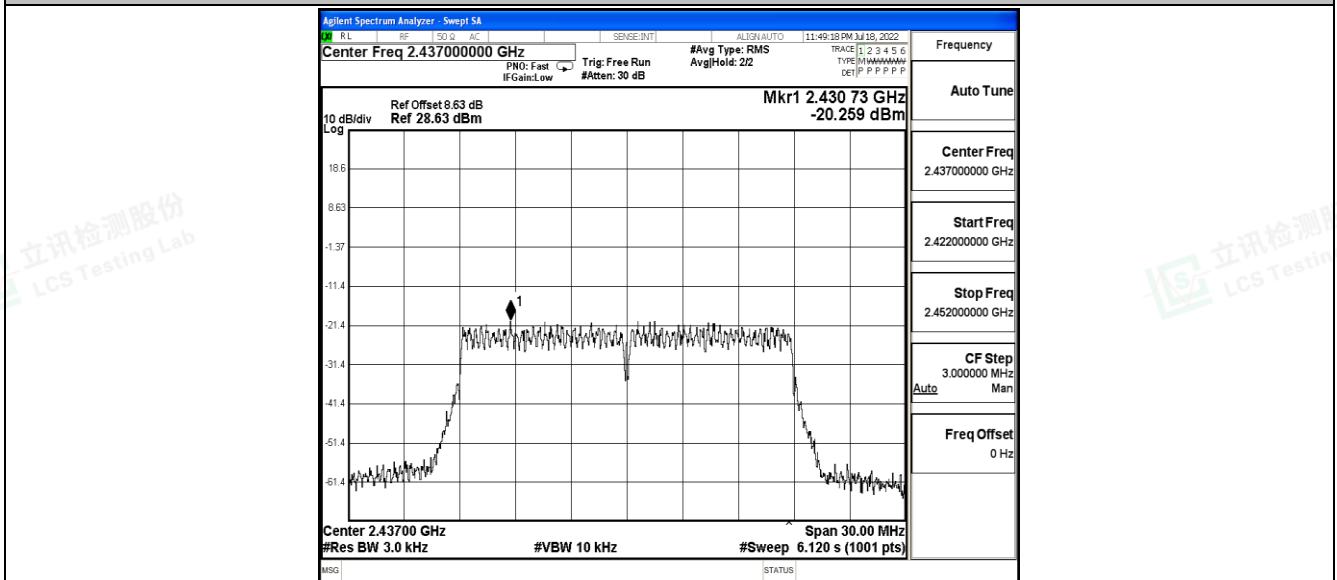


11N20SISO_Ant1_2412



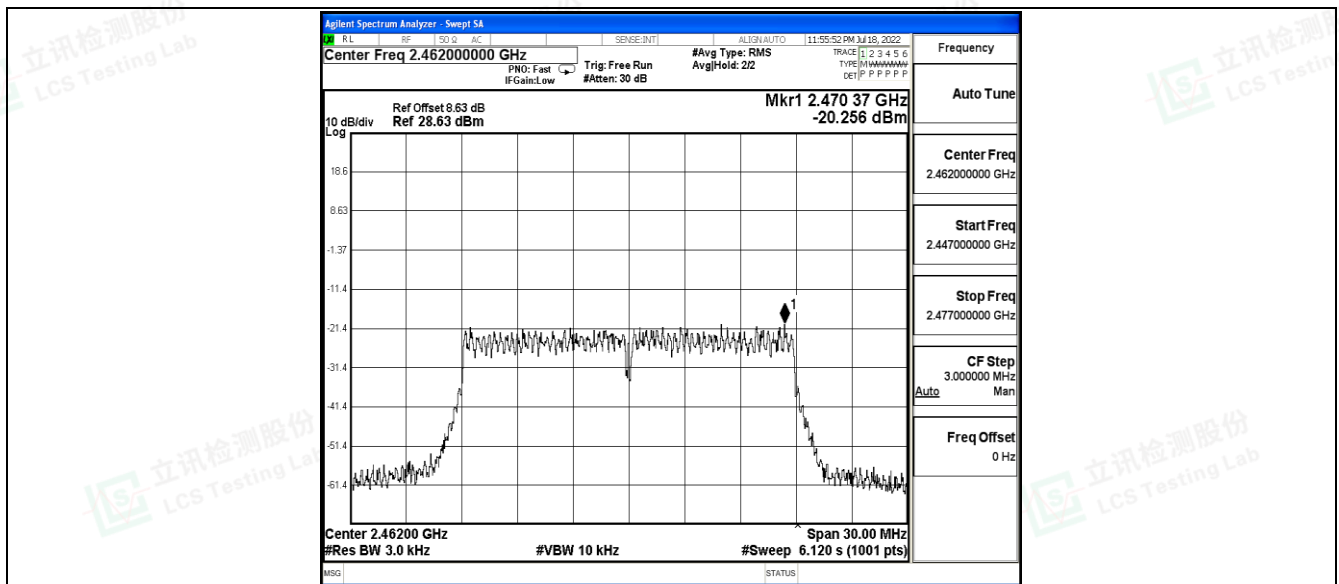


11N20SISO_Ant1_2437

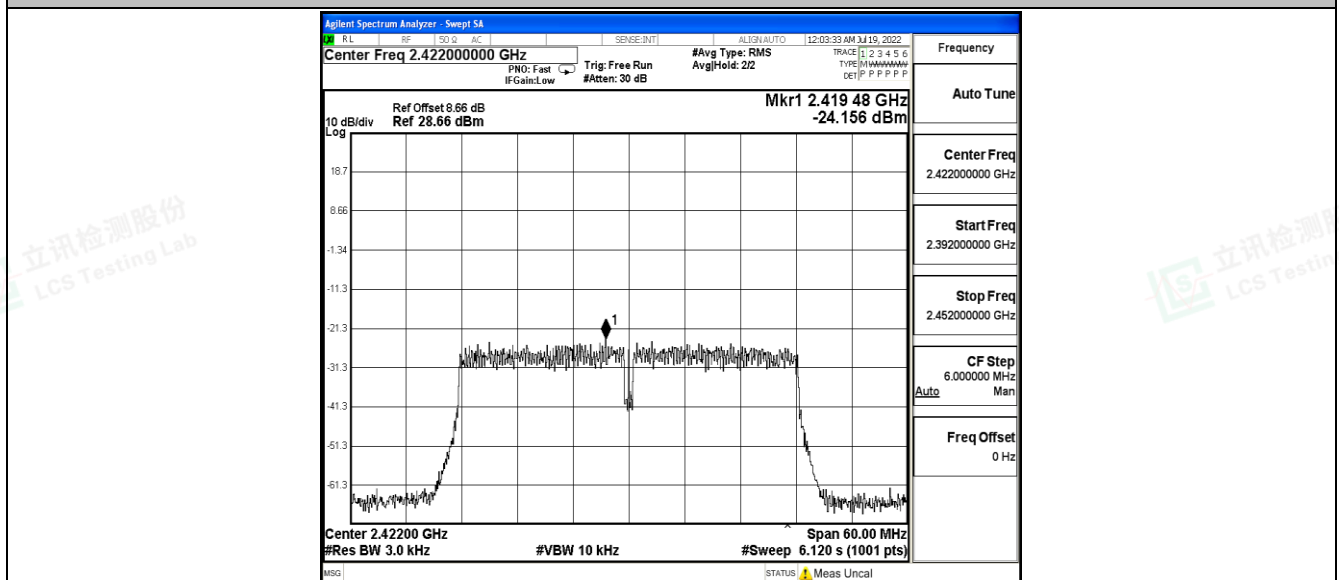


11N20SISO_Ant1_2462



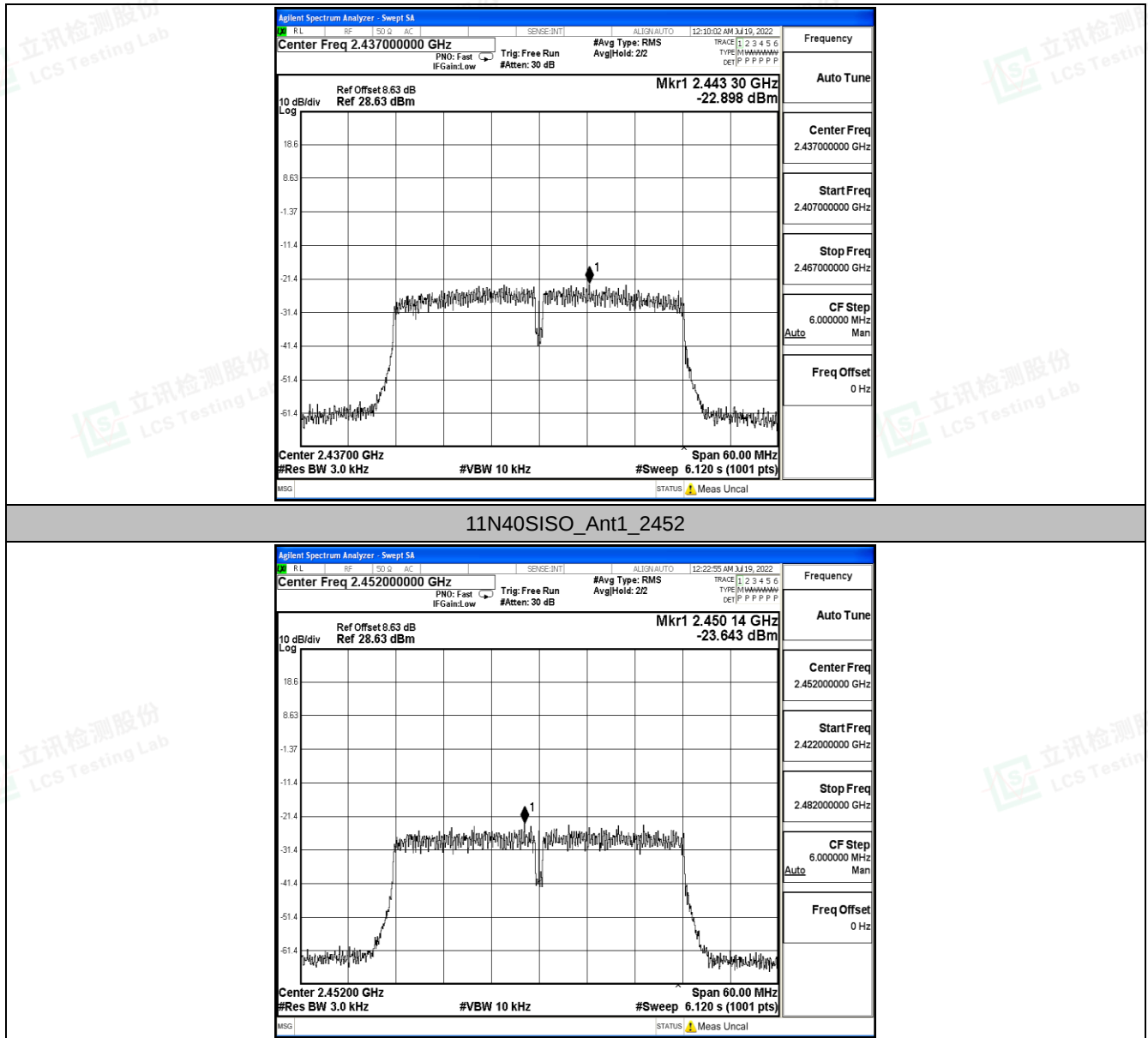


11N40SISO_Ant1_2422



11N40SISO_Ant1_2437







C.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant0	Low	2412	3.94	-36.36	≤ -16.06	PASS
		High	2462	2.94	-44.37	≤ -17.06	PASS
11G	Ant0	Low	2412	-3.37	-35.09	≤ -23.37	PASS
		High	2462	-3.98	-43.56	≤ -23.98	PASS
11N20SISO	Ant0	Low	2412	-4.50	-37.22	≤ -24.5	PASS
		High	2462	-4.48	-43.01	≤ -24.48	PASS
11N40SISO	Ant0	Low	2422	-5.20	-36.1	≤ -25.2	PASS
		High	2452	-8.42	-43.99	≤ -28.42	PASS

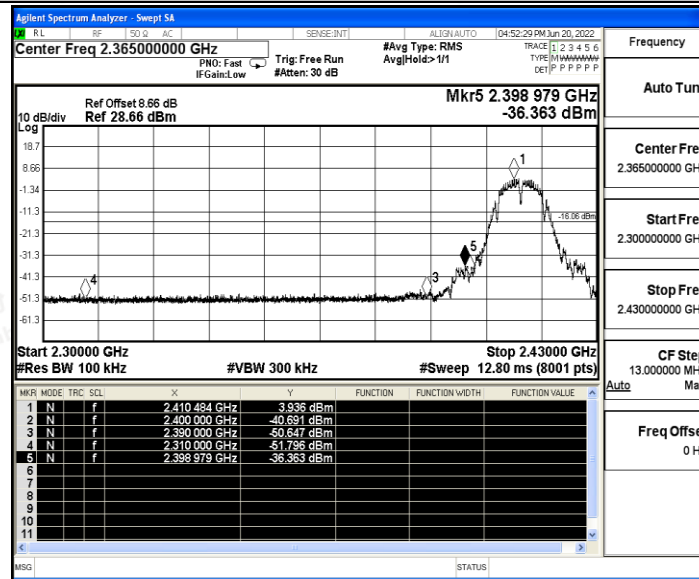


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Scan code to check authenticity

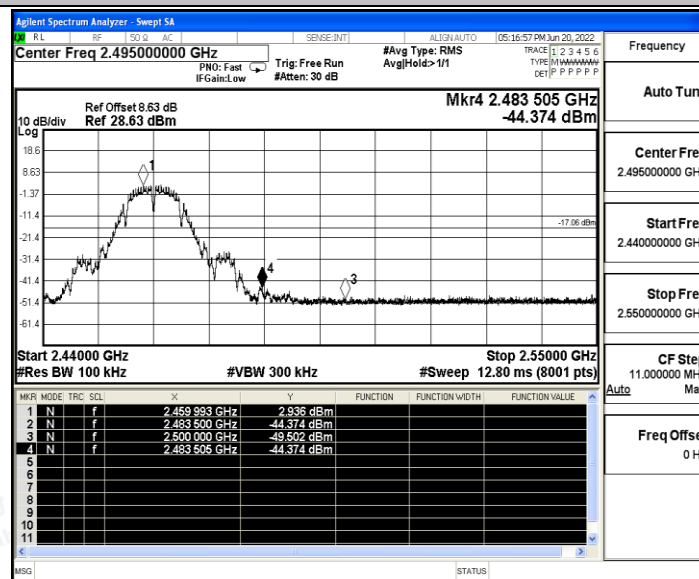


Test Graphs

11B_Ant0_Low_2412

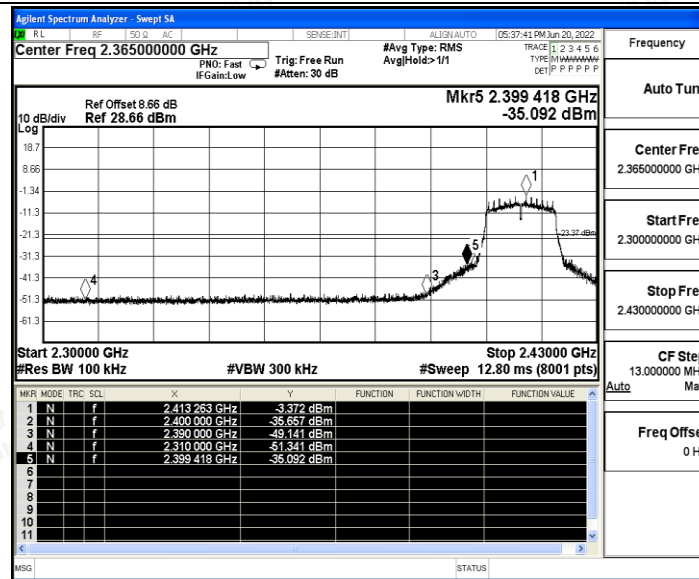


11B_Ant0_High_2462

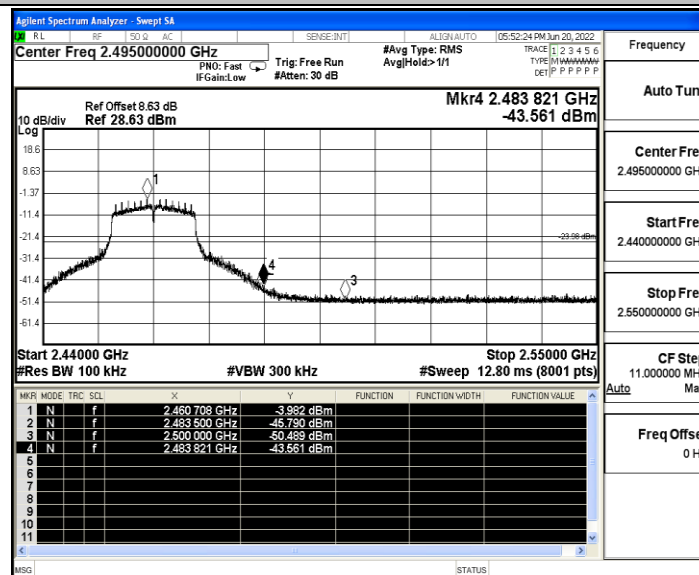


11G_Ant0_Low_2412



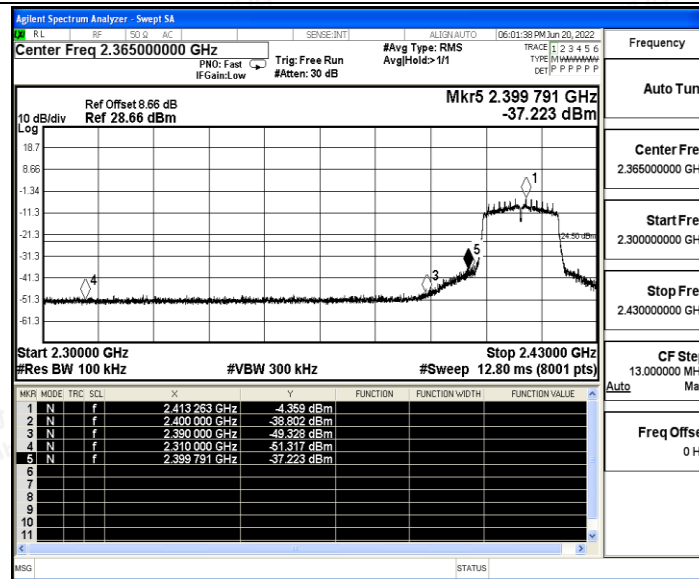


11G_Ant0_High_2462

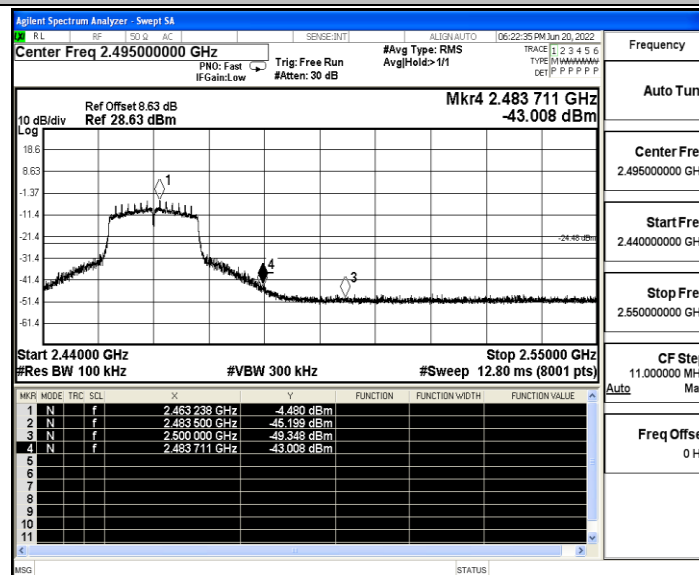


11N20SISO_Ant0_Low_2412





11N20SISO_Ant0_High_2462



11N40SISO_Ant0_Low_2422

