



Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Wicom Controller RGBCW+Microphone

Test Model: SC2QCEDQ21WR

Environmental Conditions

Temperature:	23.8 °C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>monkey.Li</i> Monkey Li
Supervised by:	<i>Li</i> Li Huan





B.1 DTS Bandwidth

Test Result

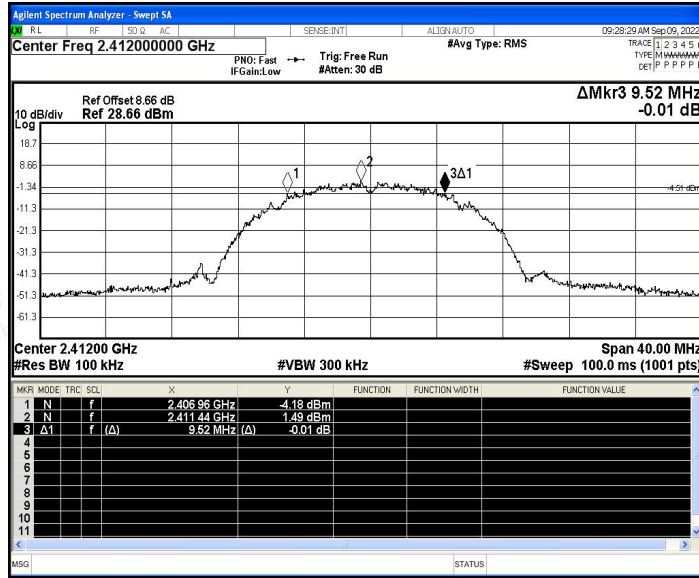
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.520	2406.960	2416.480	0.5	PASS
		2437	9.520	2432.440	2441.960	0.5	PASS
		2462	9.960	2457.000	2466.960	0.5	PASS
11G	Ant1	2412	16.360	2403.800	2420.160	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.320	2453.800	2470.120	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	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	34.080	2405.360	2439.440	0.5	PASS
		2437	35.040	2419.480	2454.520	0.5	PASS
		2452	34.080	2435.360	2469.440	0.5	PASS



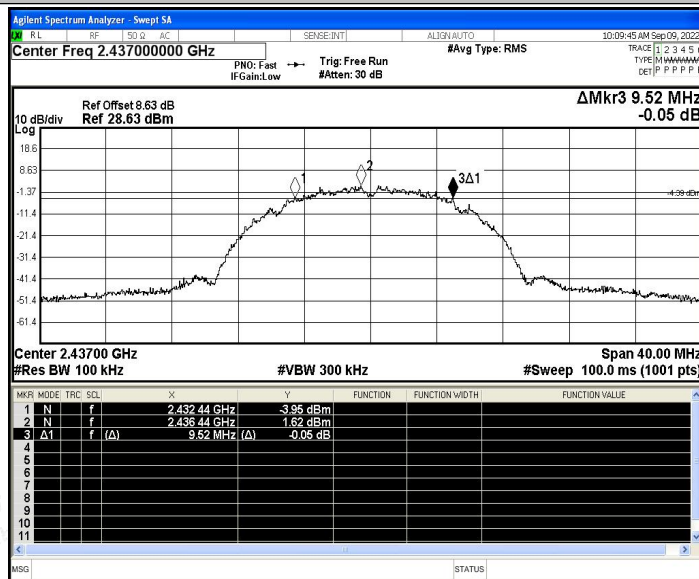


Test Graphs

11B_Ant1_2412

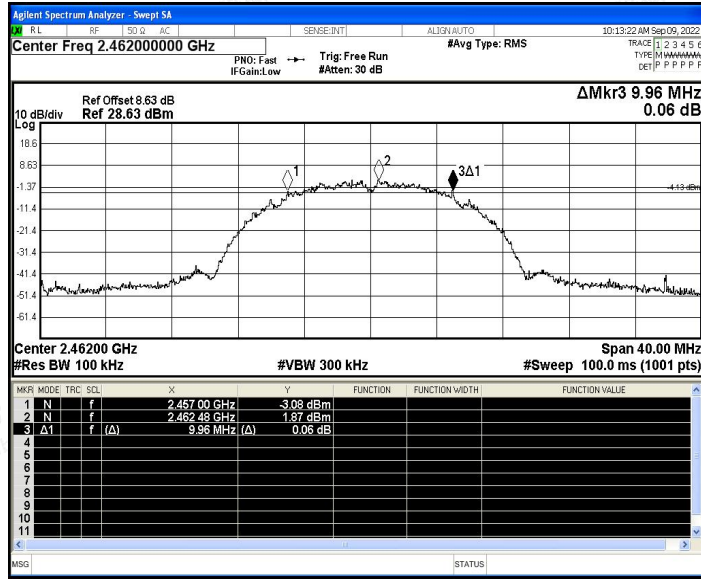


11B_Ant1_2437

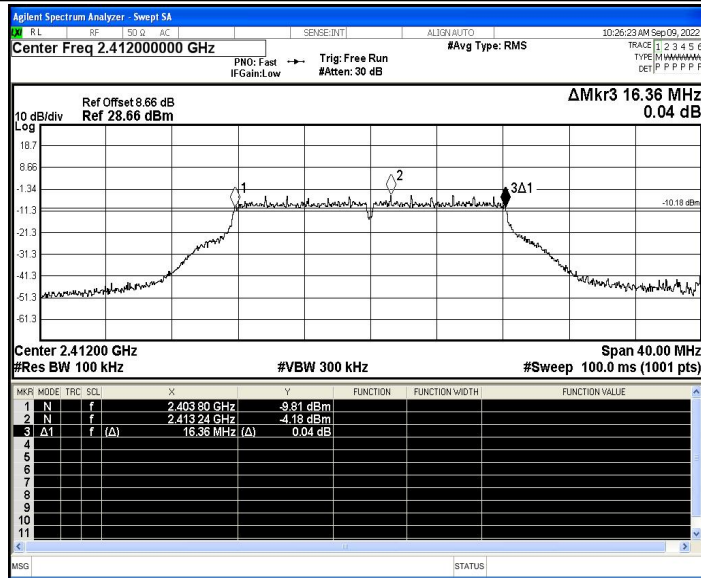


11B_Ant1_2462



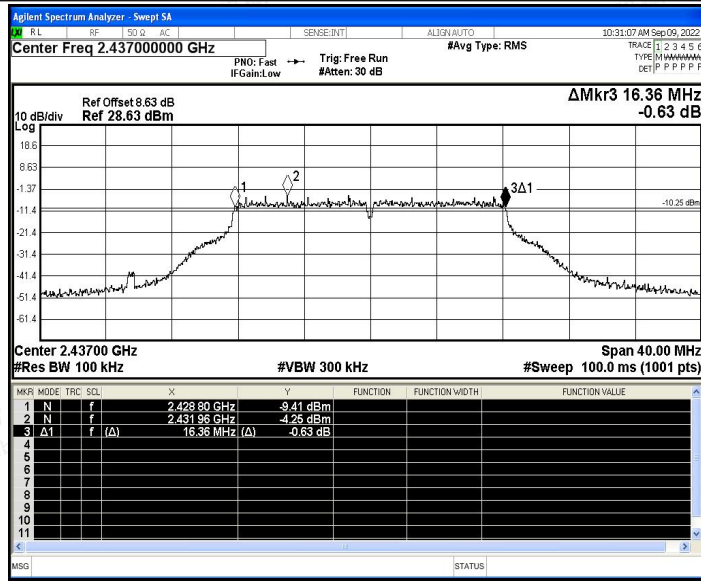


11G_Ant1_2412

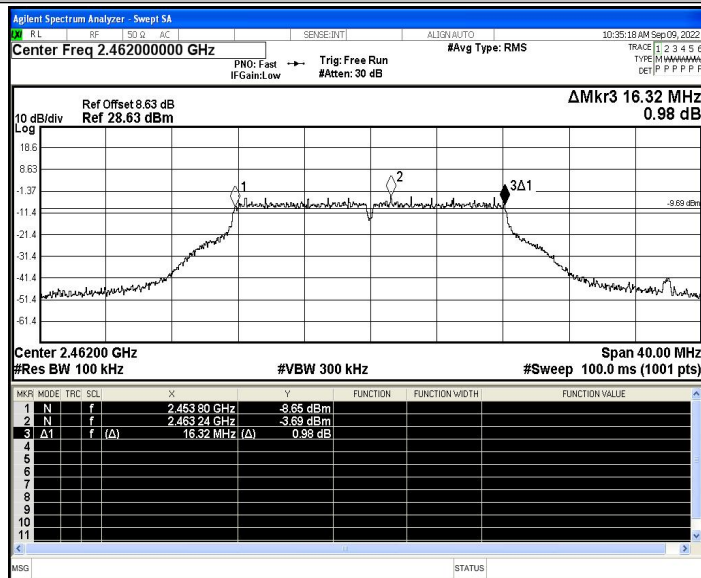


11G_Ant1_2437



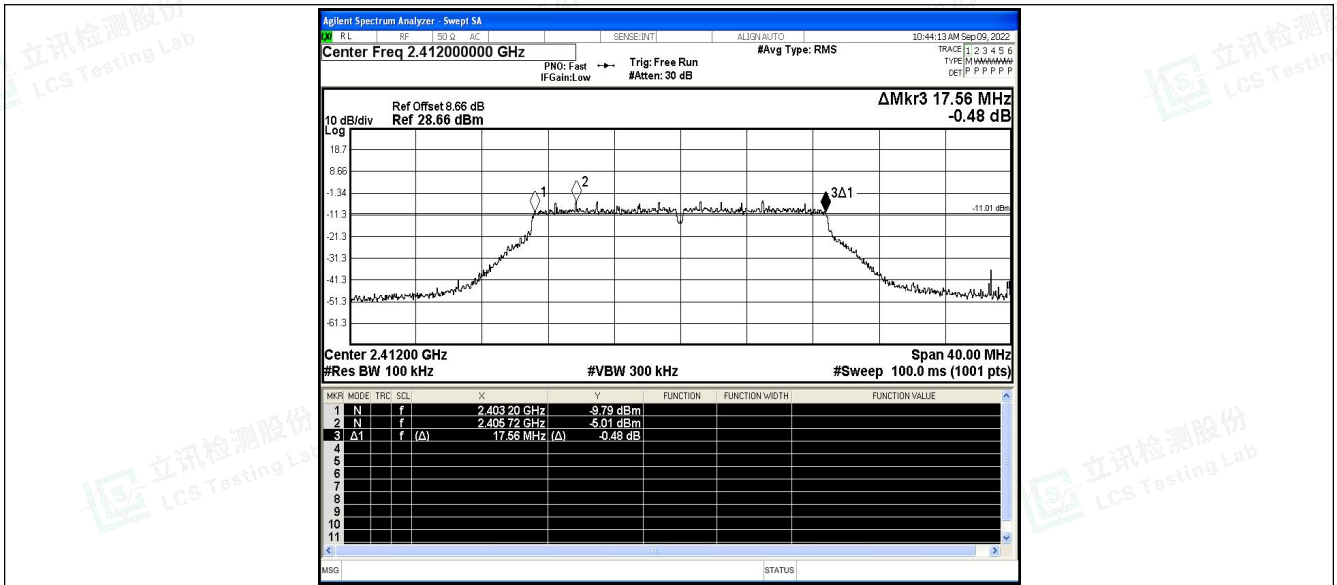


11G_Ant1_2462

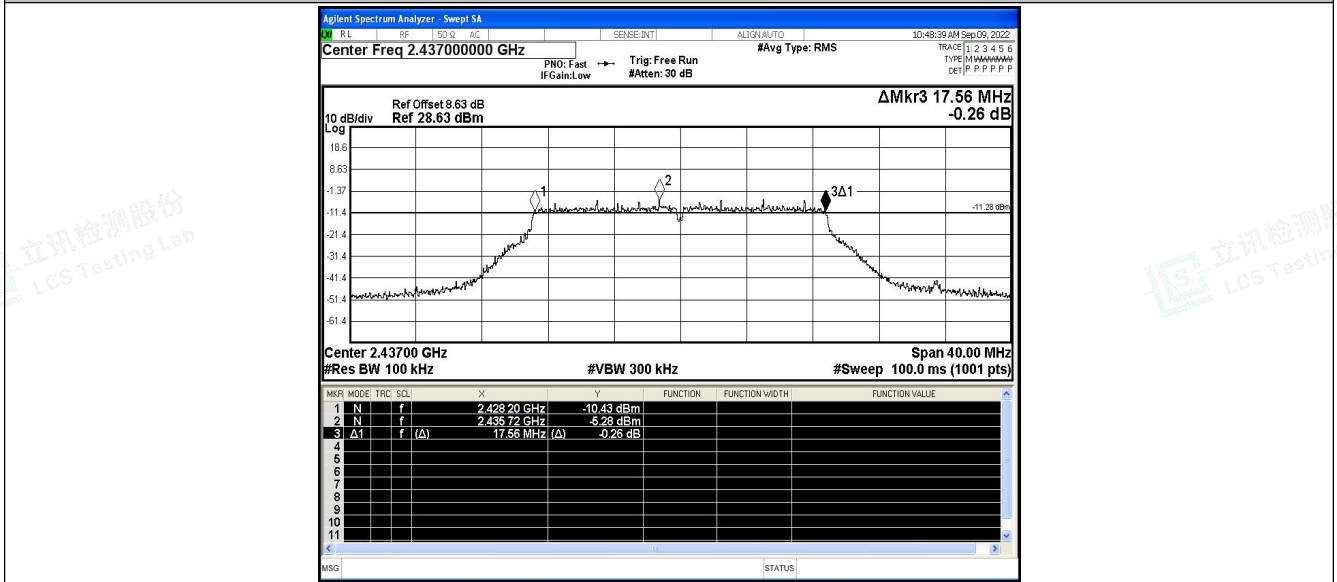


11N20SISO_Ant1_2412



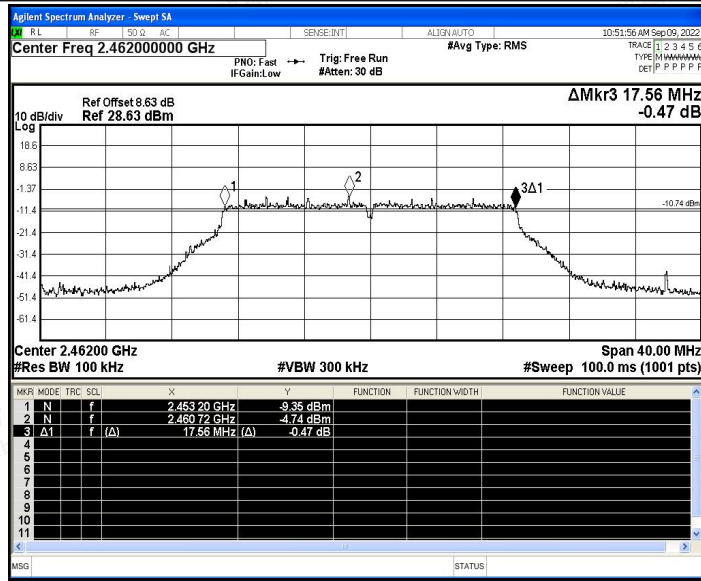


11N20SISO_Ant1_2437

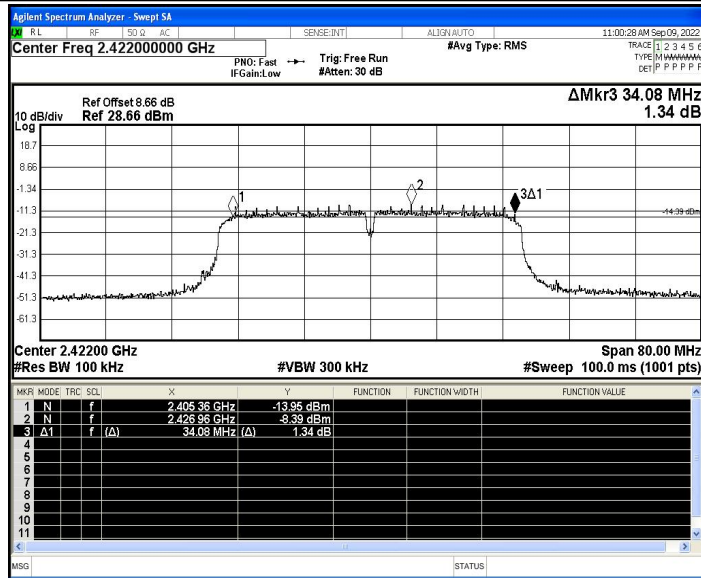


11N20SISO_Ant1_2462



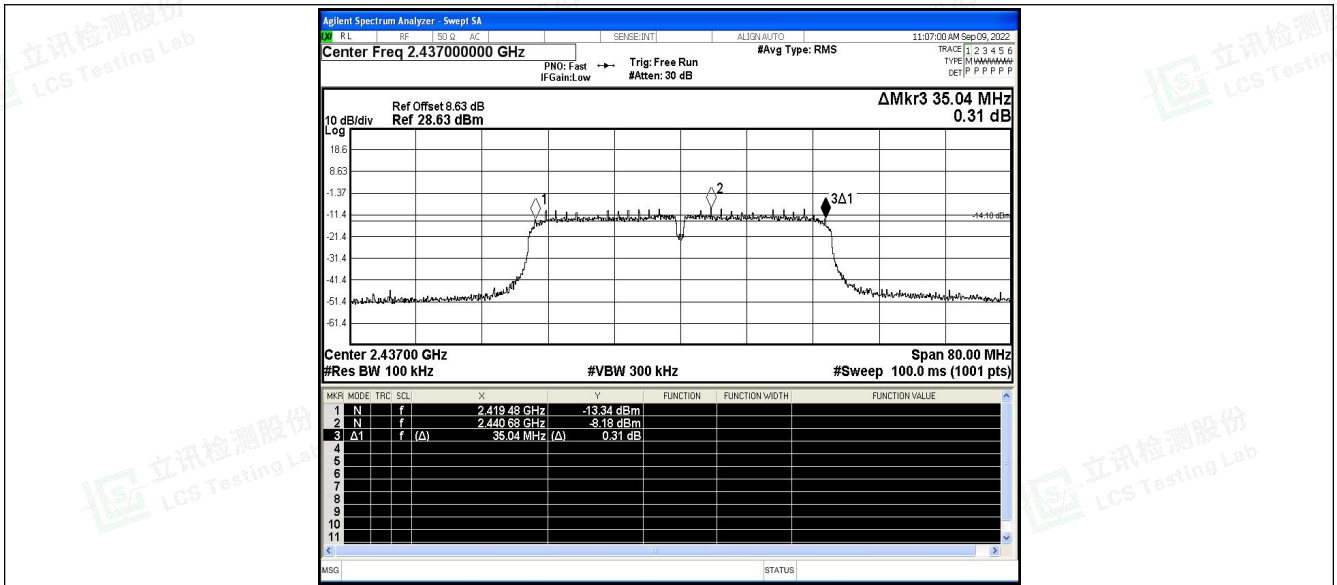


11N40SISO_Ant1_2422

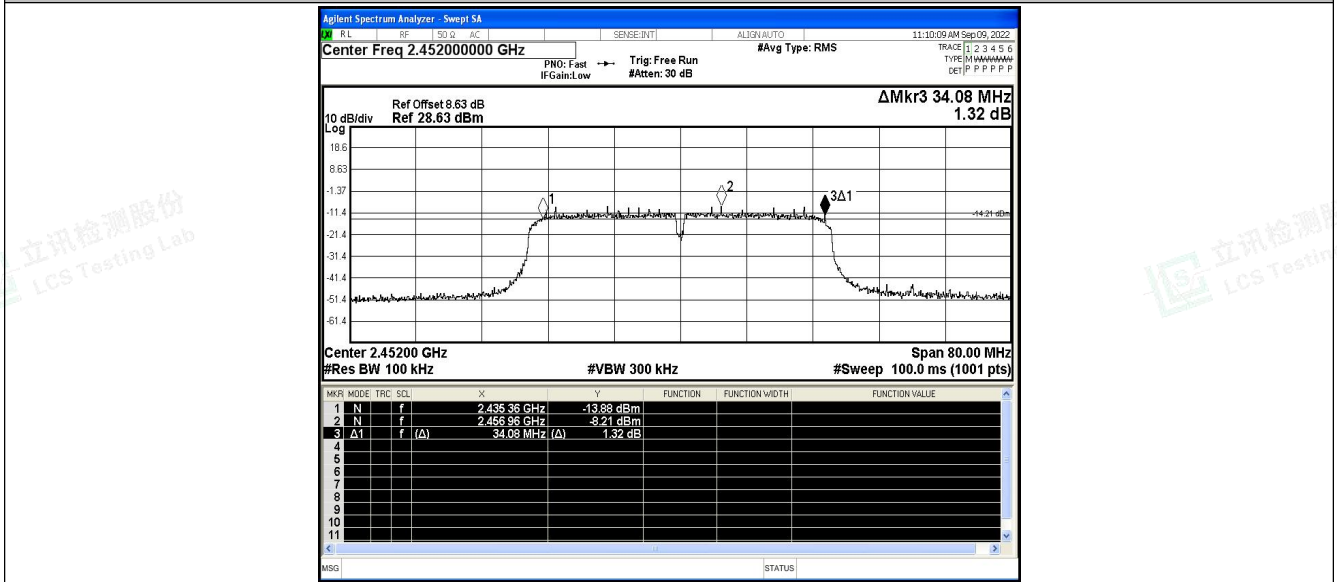


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452





B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	16.33	≤30.00	PASS
		2437	16.72	≤30.00	PASS
		2462	16.26	≤30.00	PASS
11G	Ant1	2412	15.46	≤30.00	PASS
		2437	15.56	≤30.00	PASS
		2462	15.23	≤30.00	PASS
11N20SISO	Ant1	2412	14.60	≤30.00	PASS
		2437	14.38	≤30.00	PASS
		2462	14.91	≤30.00	PASS
11N40SISO	Ant1	2422	14.08	≤30.00	PASS
		2437	13.91	≤30.00	PASS
		2452	14.24	≤30.00	PASS





B.3 Maximum power spectral density

Test Result

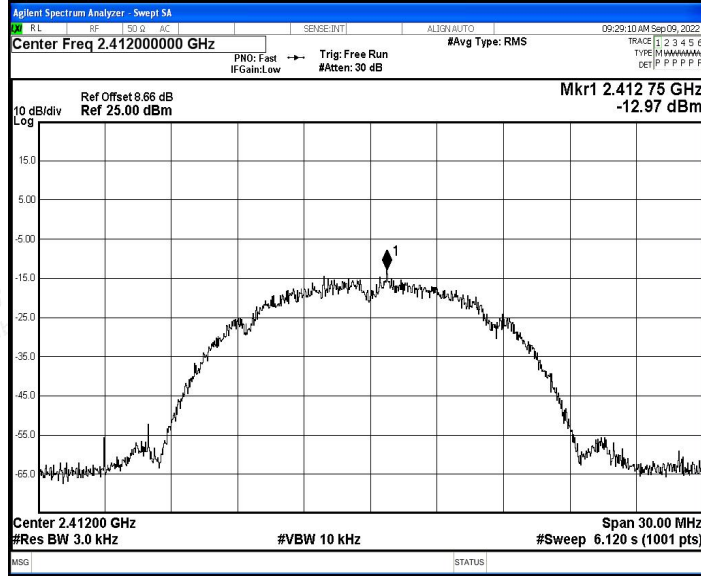
TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-12.97	≤8.00	PASS
		2437	-13.07	≤8.00	PASS
		2462	-13.66	≤8.00	PASS
11G	Ant1	2412	-18.26	≤8.00	PASS
		2437	-18.11	≤8.00	PASS
		2462	-18.32	≤8.00	PASS
11N20SISO	Ant1	2412	-19.52	≤8.00	PASS
		2437	-19.15	≤8.00	PASS
		2462	-18.42	≤8.00	PASS
11N40SISO	Ant1	2422	-22.73	≤8.00	PASS
		2437	-23.22	≤8.00	PASS
		2452	-23	≤8.00	PASS



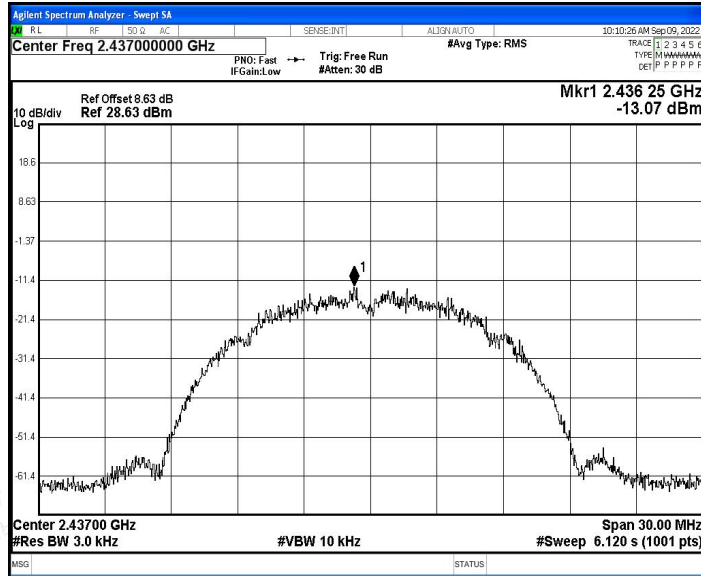


Test Graphs

11B_Ant1_2412

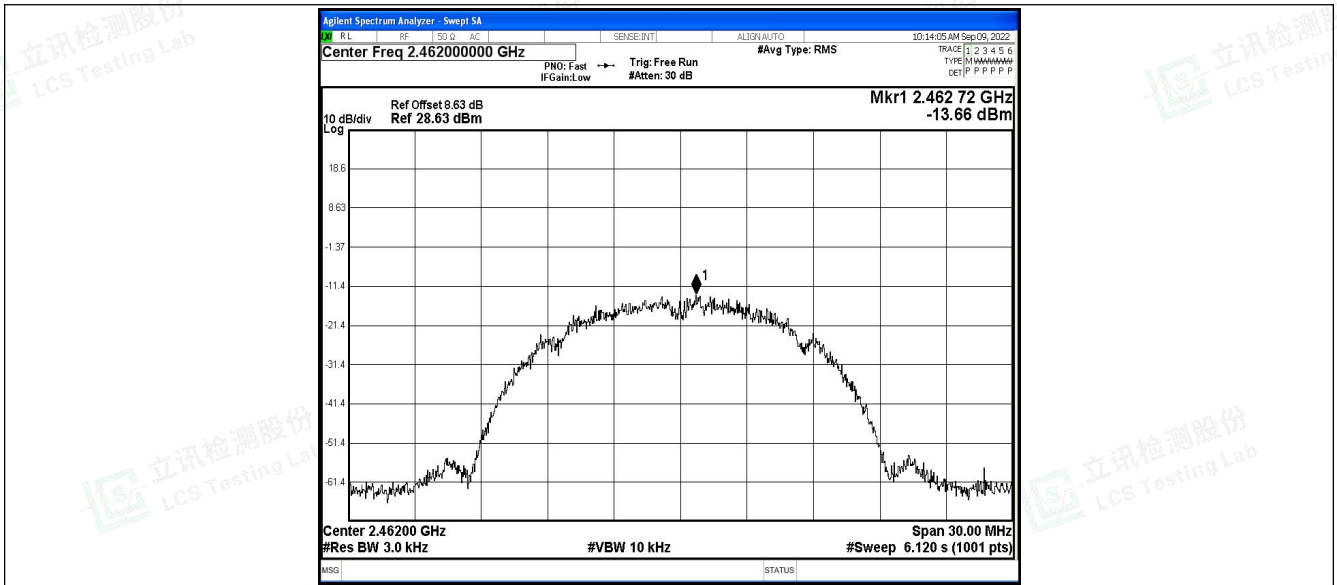


11B_Ant1_2437

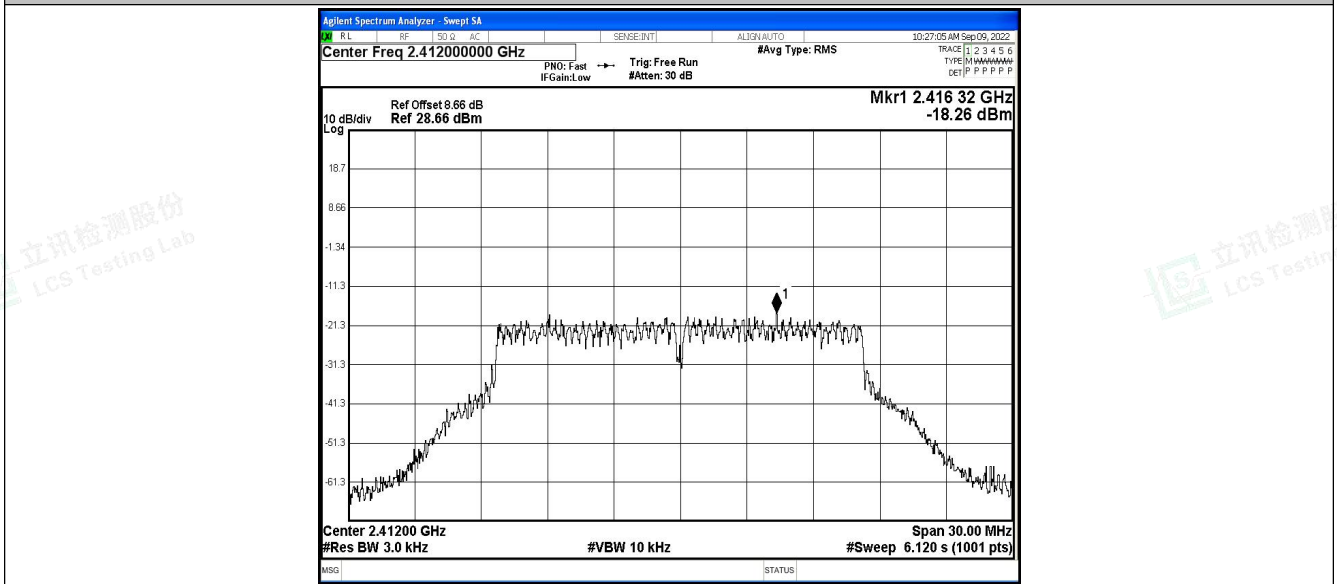


11B_Ant1_2462



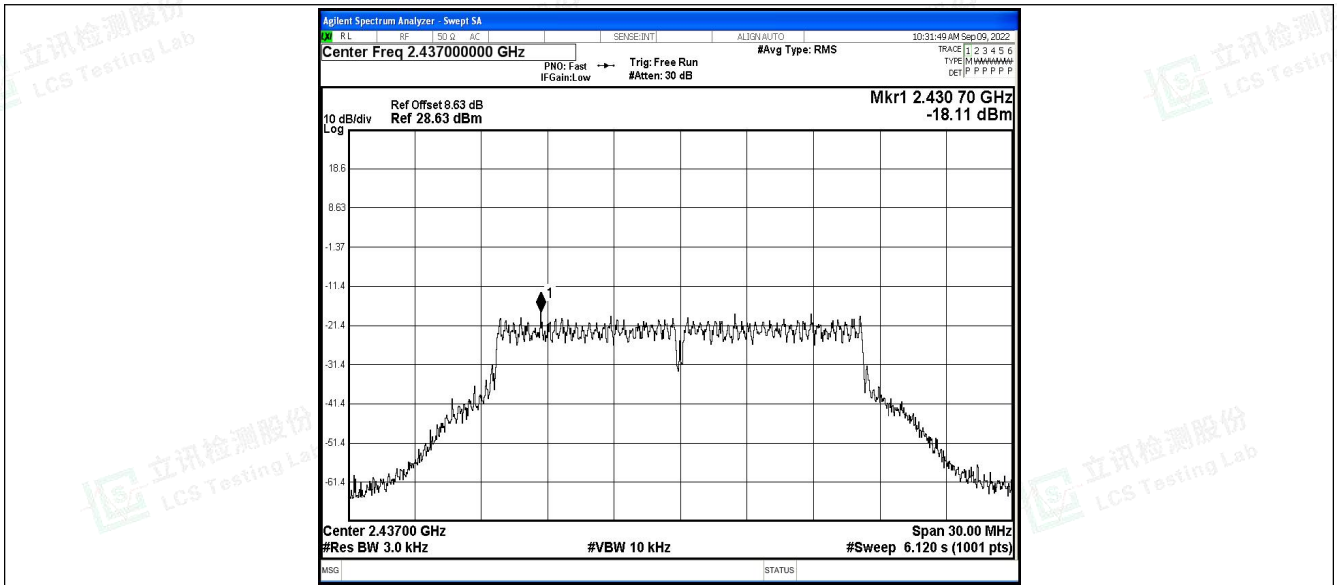


11G_Ant1_2412

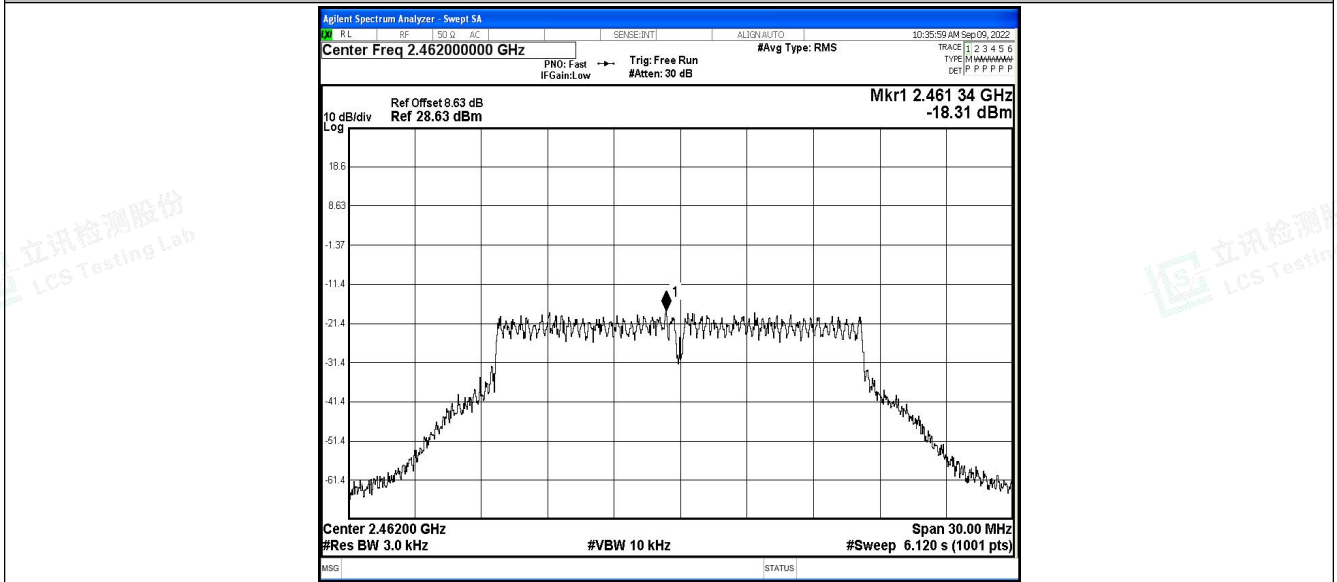


11G_Ant1_2437



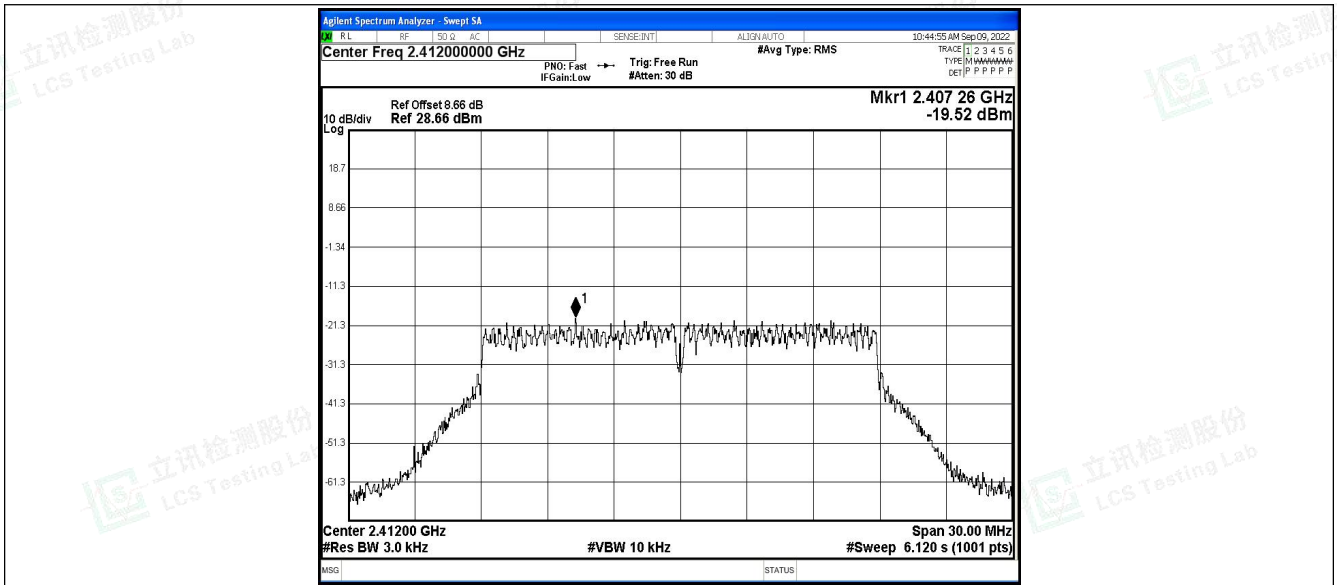


11G_Ant1_2462

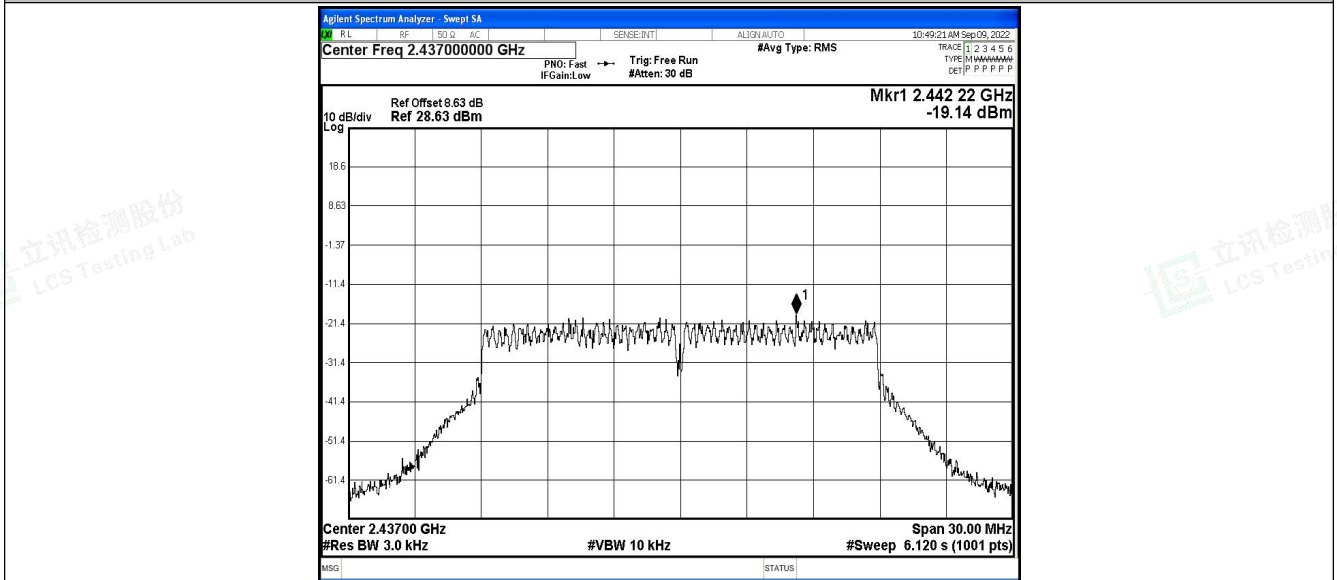


11N20SISO_Ant1_2412



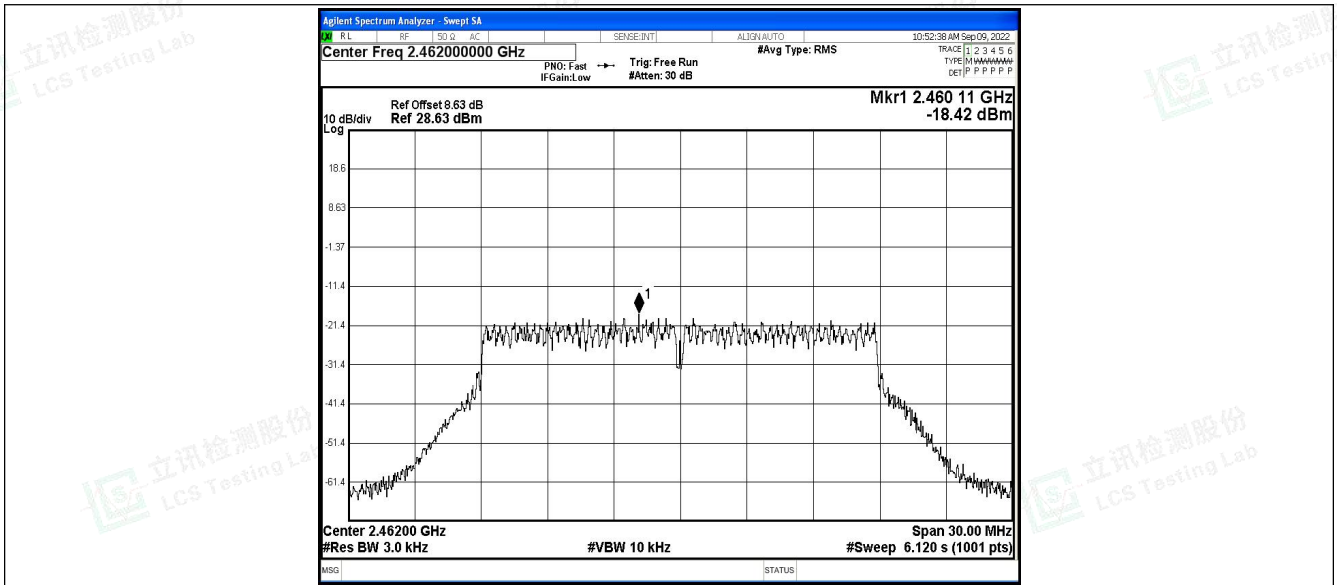


11N20SISO_Ant1_2437

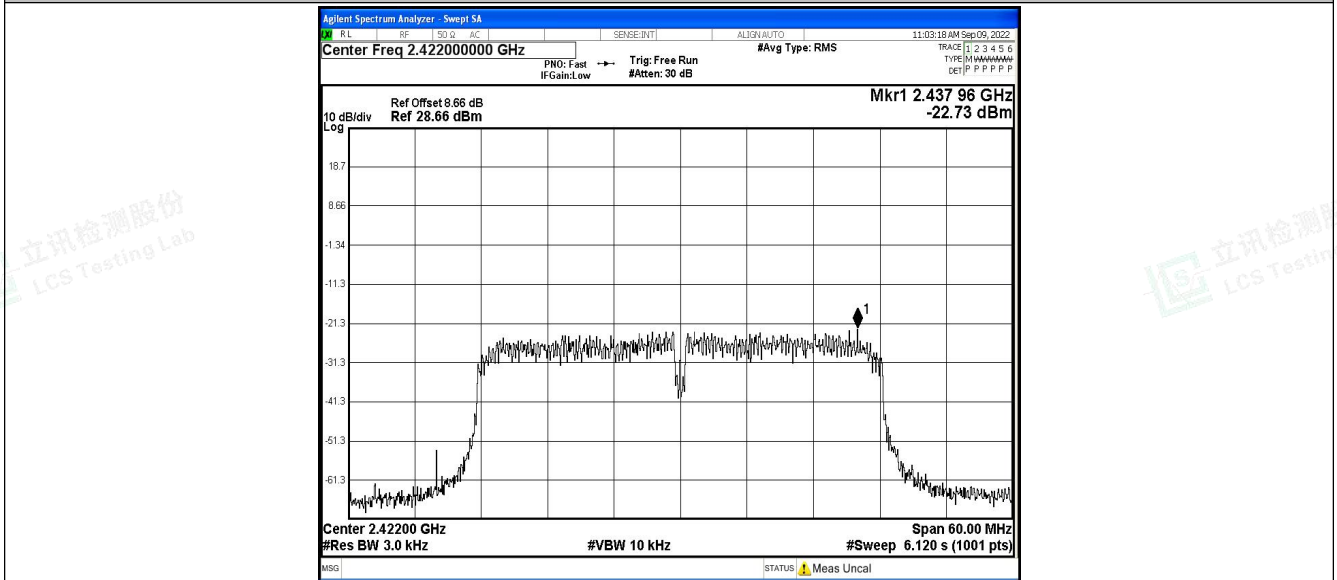


11N20SISO_Ant1_2462



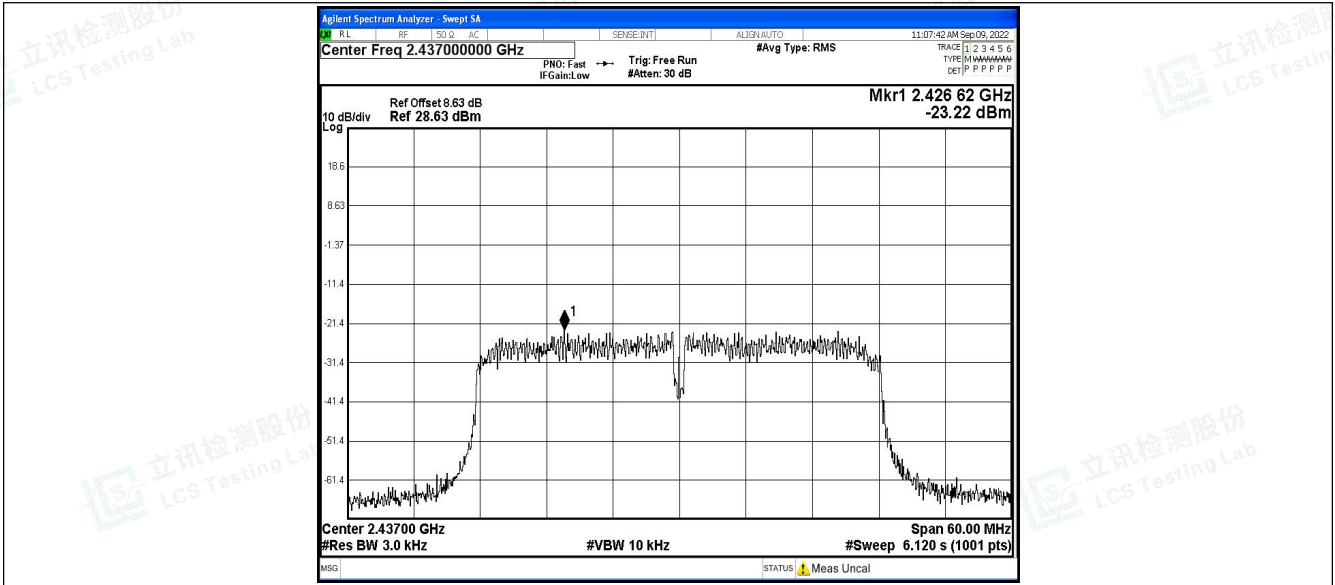


11N40SISO_Ant1_2422

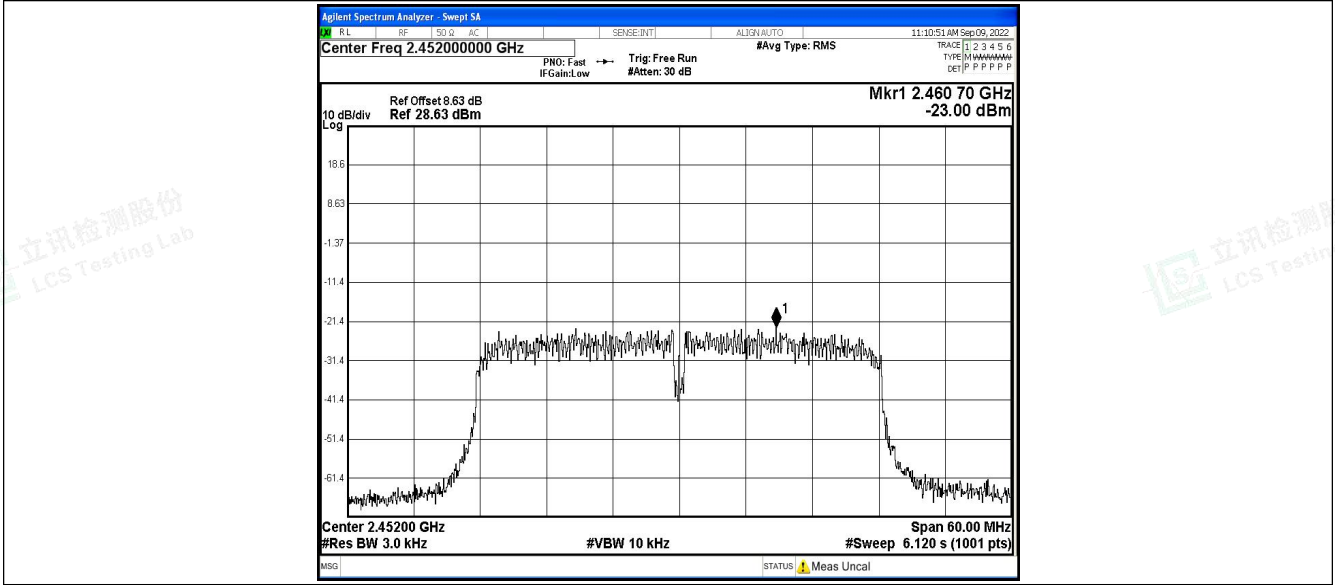


11N40SISO_Ant1_2437





11N40SISO_Ant1_2452





B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	0.79	-46.97	≤-19.22	PASS
		High	2462	1.61	-48.06	≤-18.39	PASS
11G	Ant1	Low	2412	-4.05	-40.05	≤-24.05	PASS
		High	2462	-4.10	-47.49	≤-24.1	PASS
11N20SISO	Ant1	Low	2412	-4.90	-40.16	≤-24.9	PASS
		High	2462	-4.91	-48.23	≤-24.91	PASS
11N40SISO	Ant1	Low	2422	-7.86	-46	≤-27.86	PASS
		High	2452	-8.71	-48.18	≤-28.71	PASS

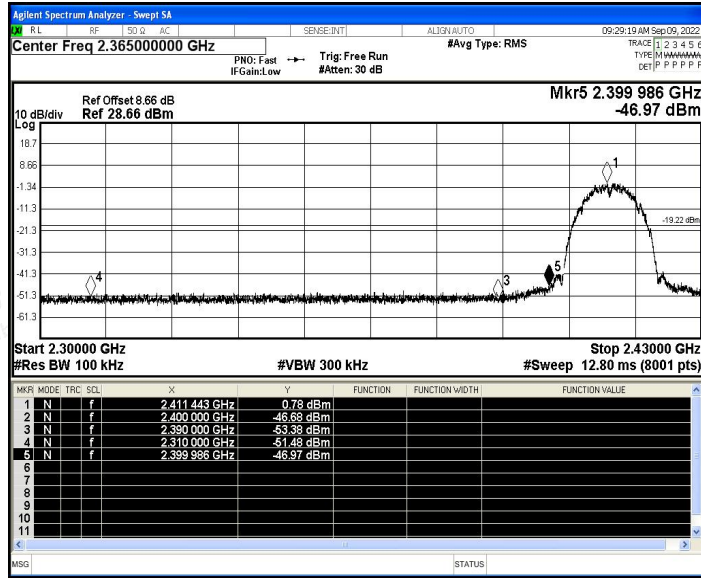


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 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity

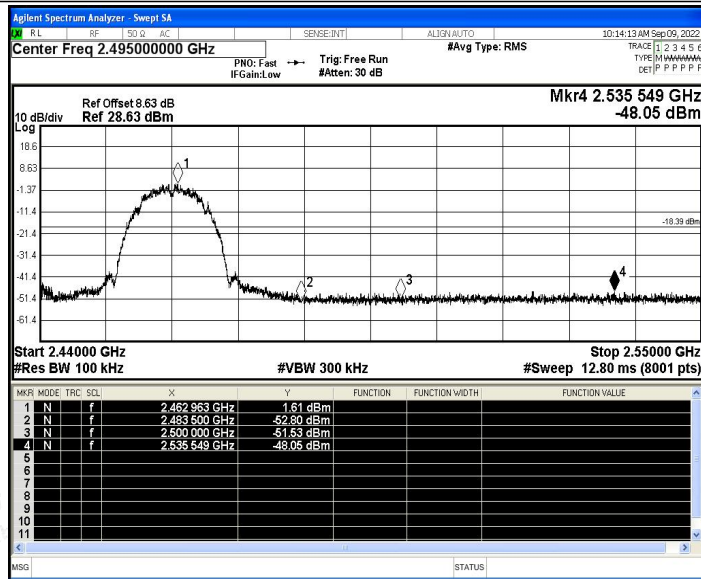


Test Graphs

11B_Ant1_Low_2412

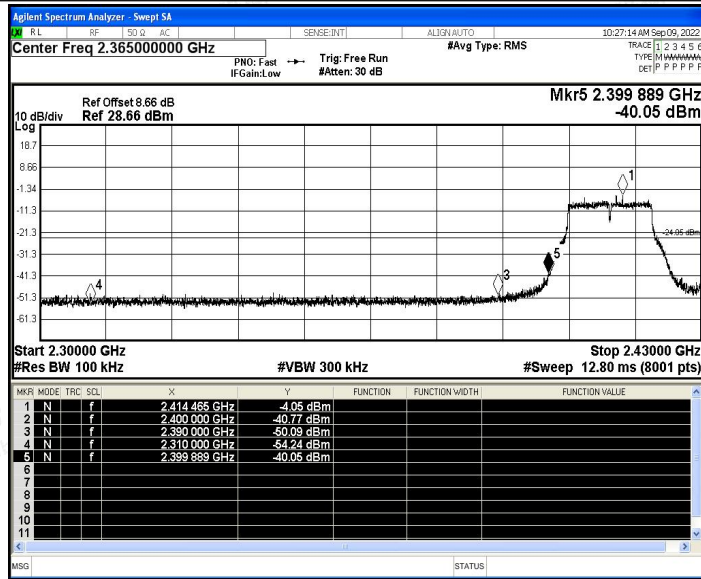


11B_Ant1_High_2462

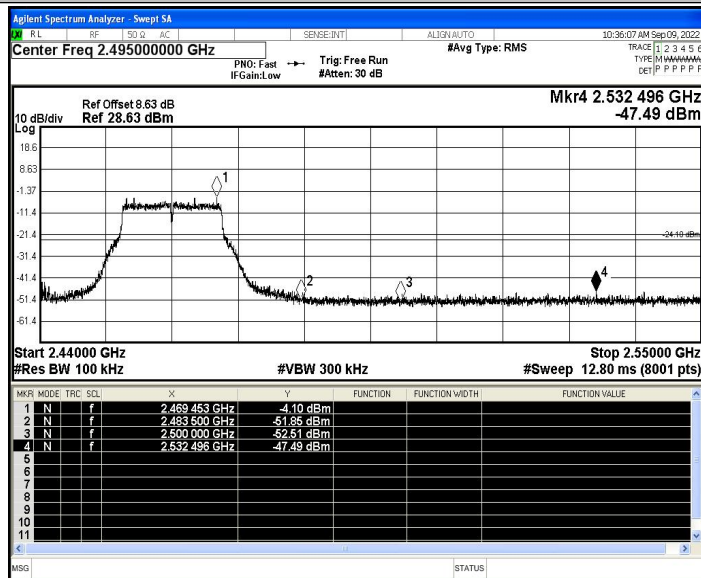


11G_Ant1_Low_2412



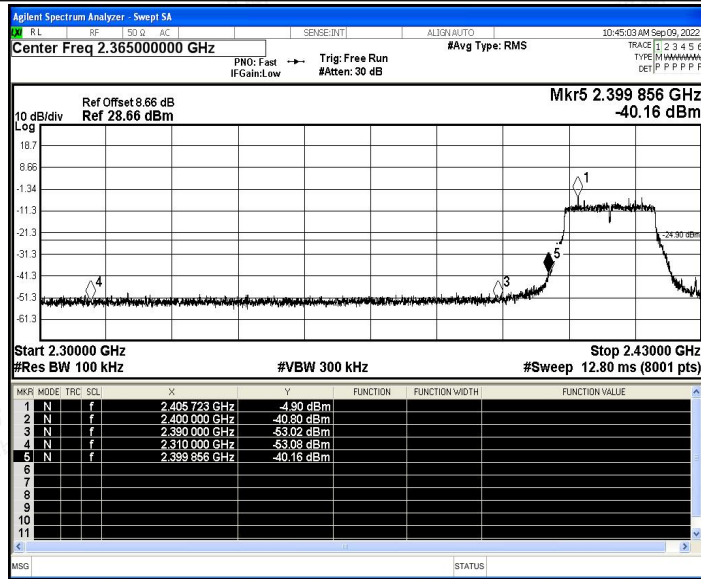


11G_Ant1_High_2462

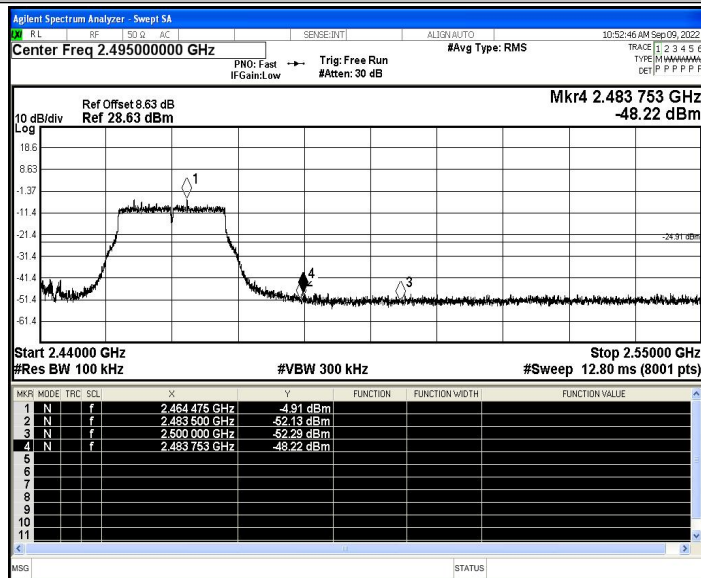


11N20SISO_Ant1_Low_2412



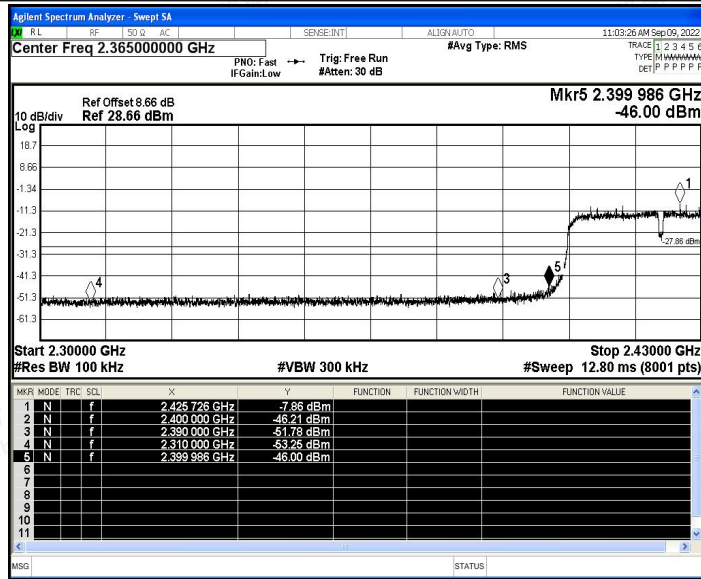


11N20SISO_Ant1_High_2462

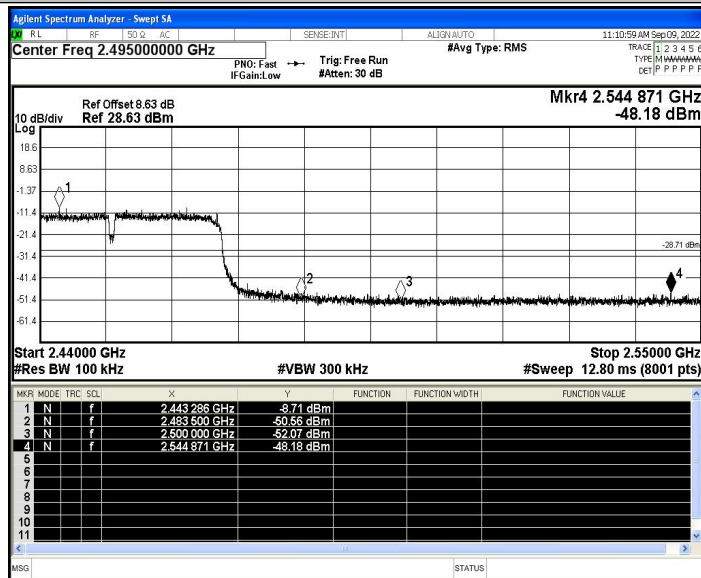


11N40SISO_Ant1_Low_2422





11N40SISO_Ant1_High_2452





B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-0.38	-0.38	---	PASS
			30~1000	-0.38	-50.42	≤-20.38	PASS
			1000~26500	-0.38	-38.07	≤-20.38	PASS
		2437	Reference	0.13	0.13	---	PASS
			30~1000	0.13	-50.87	≤-19.87	PASS
			1000~26500	0.13	-37.56	≤-19.87	PASS
		2462	Reference	-0.39	-0.39	---	PASS
			30~1000	-0.39	-50.43	≤-20.39	PASS
			1000~26500	-0.39	-37.99	≤-20.39	PASS
11G	Ant1	2412	Reference	-6.81	-6.81	---	PASS
			30~1000	-6.81	-51.03	≤-26.81	PASS
			1000~26500	-6.81	-45.52	≤-26.81	PASS
		2437	Reference	-7.45	-7.45	---	PASS
			30~1000	-7.45	-49.54	≤-27.45	PASS
			1000~26500	-7.45	-45.83	≤-27.45	PASS
		2462	Reference	-6.08	-6.08	---	PASS
			30~1000	-6.08	-51.3	≤-26.08	PASS
			1000~26500	-6.08	-45.83	≤-26.08	PASS
11N20SISO	Ant1	2412	Reference	-4.78	-4.78	---	PASS
			30~1000	-4.78	-51.12	≤-24.78	PASS
			1000~26500	-4.78	-46.18	≤-24.78	PASS
		2437	Reference	-8.65	-8.65	---	PASS
			30~1000	-8.65	-51.14	≤-28.65	PASS
			1000~26500	-8.65	-45	≤-28.65	PASS
		2462	Reference	-7.82	-7.82	---	PASS
			30~1000	-7.82	-51.22	≤-27.82	PASS
			1000~26500	-7.82	-46.01	≤-27.82	PASS
11N40SISO	Ant1	2422	Reference	-11.36	-11.36	---	PASS
			30~1000	-11.36	-48.35	≤-31.36	PASS
			1000~26500	-11.36	-46.31	≤-31.36	PASS
		2437	Reference	-9.34	-9.34	---	PASS
			30~1000	-9.34	-48.79	≤-29.34	PASS
			1000~26500	-9.34	-46.19	≤-29.34	PASS
		2452	Reference	-10.57	-10.57	---	PASS
			30~1000	-10.57	-49.14	≤-30.57	PASS



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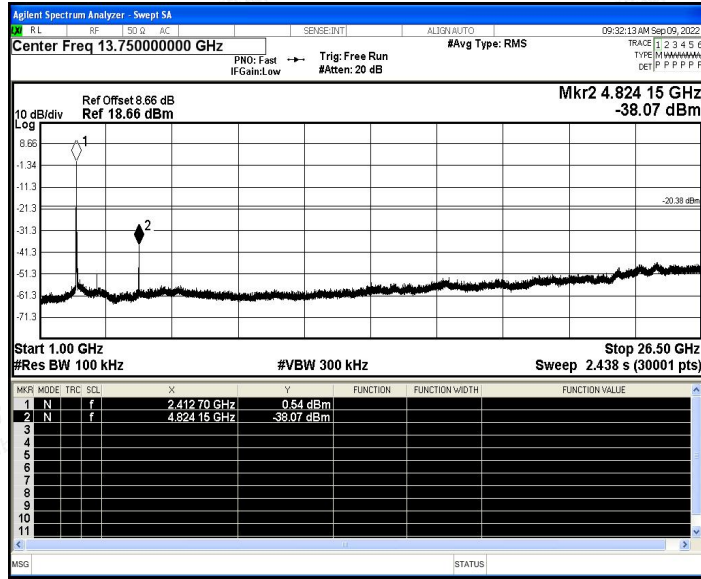
Scan code to check authenticity



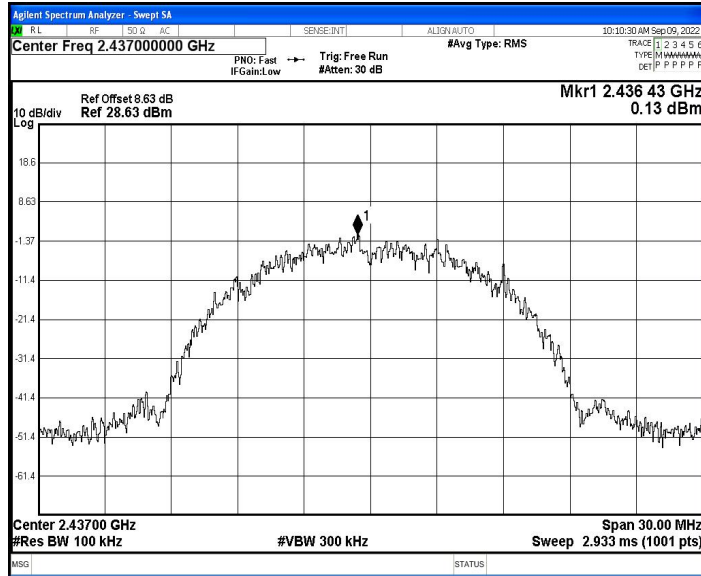
			1000~26500	-10.57	-46.43	≤-30.57	PASS
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Test Graphs





11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

