



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: 4G fixed wireless phone

Test Model: F40

Environmental Conditions

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





C.1 DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant	2412	9.080	2407.440	2416.520	0.5	PASS
		2437	9.080	2432.480	2441.560	0.5	PASS
		2462	9.600	2456.960	2466.560	0.5	PASS
11G	Ant	2412	13.600	2406.600	2420.200	0.5	PASS
		2437	15.720	2428.840	2444.560	0.5	PASS
		2462	16.080	2454.080	2470.160	0.5	PASS
11N20SISO	Ant	2412	16.160	2404.480	2420.640	0.5	PASS
		2437	16.160	2428.360	2444.520	0.5	PASS
		2462	16.920	2453.680	2470.600	0.5	PASS
11N40SISO	Ant	2422	35.040	2404.480	2439.520	0.5	PASS
		2437	35.440	2419.080	2454.520	0.5	PASS
		2452	36.320	2433.760	2470.080	0.5	PASS



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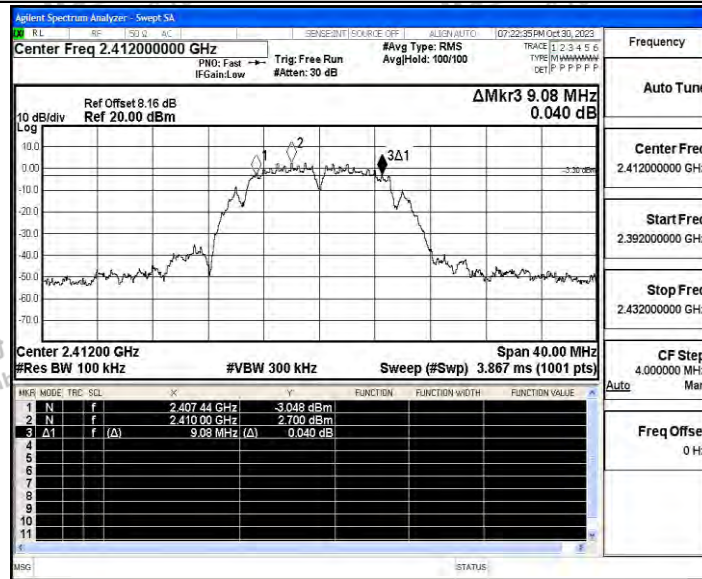
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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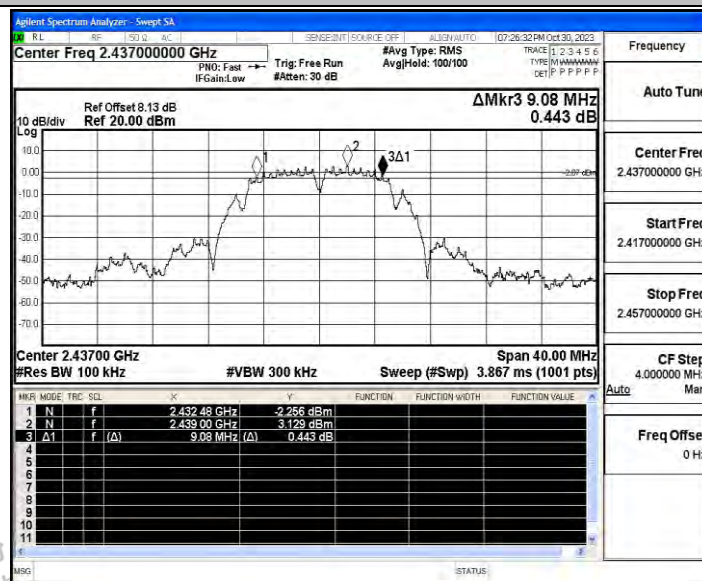


Test Graphs

11B_Ant_2412



11B_Ant_2437



11B_Ant_2462

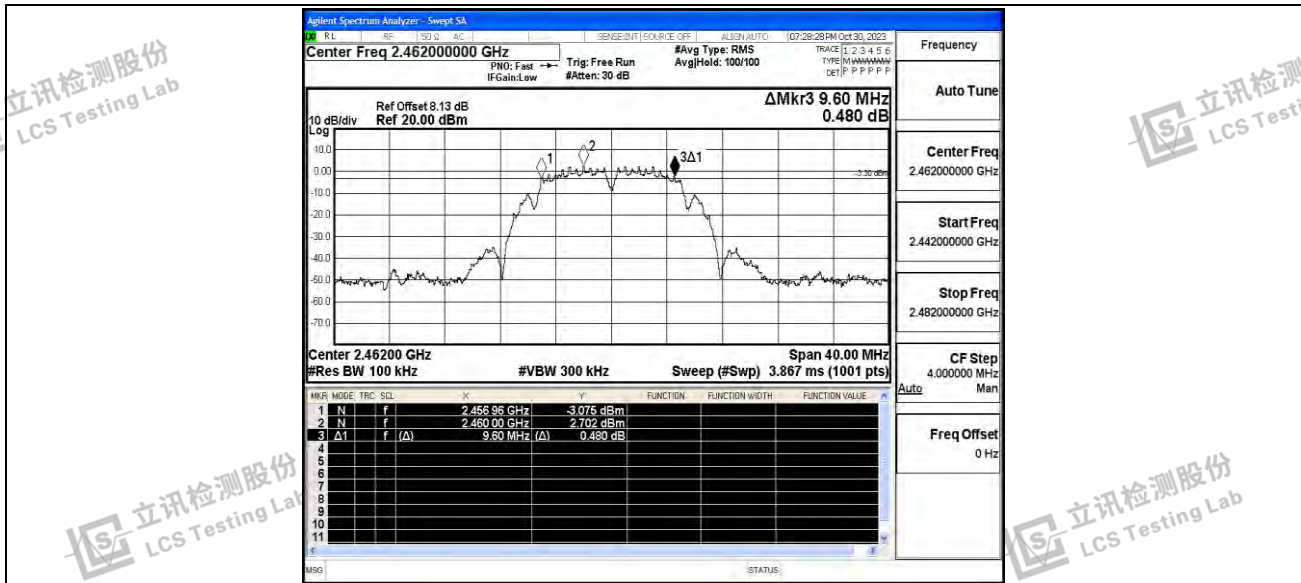


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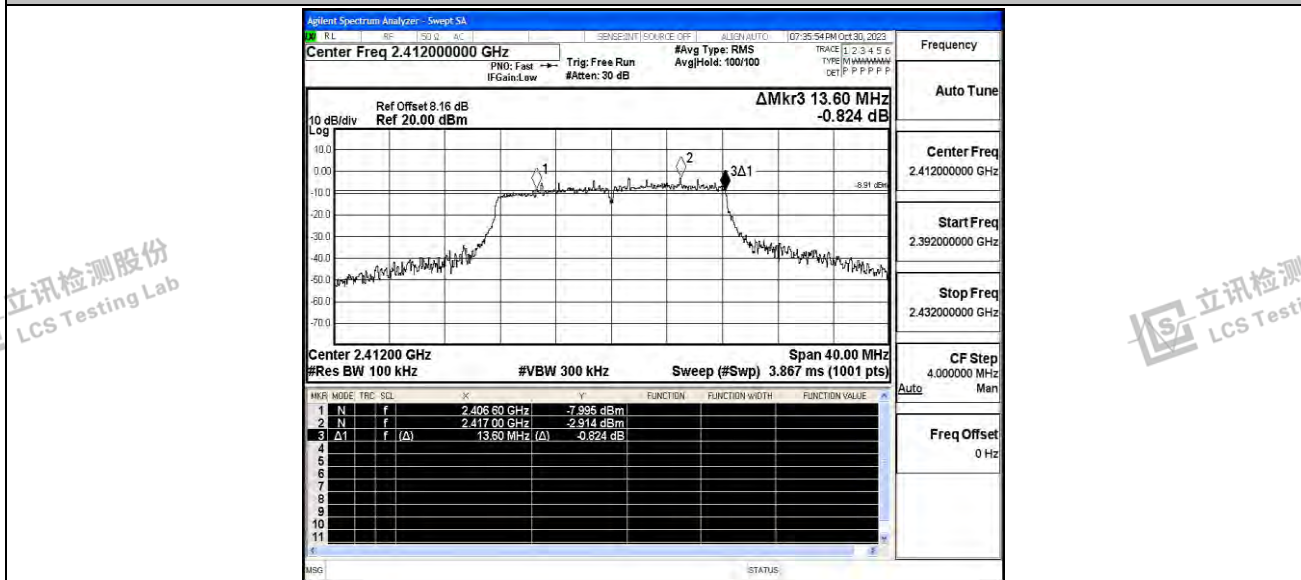
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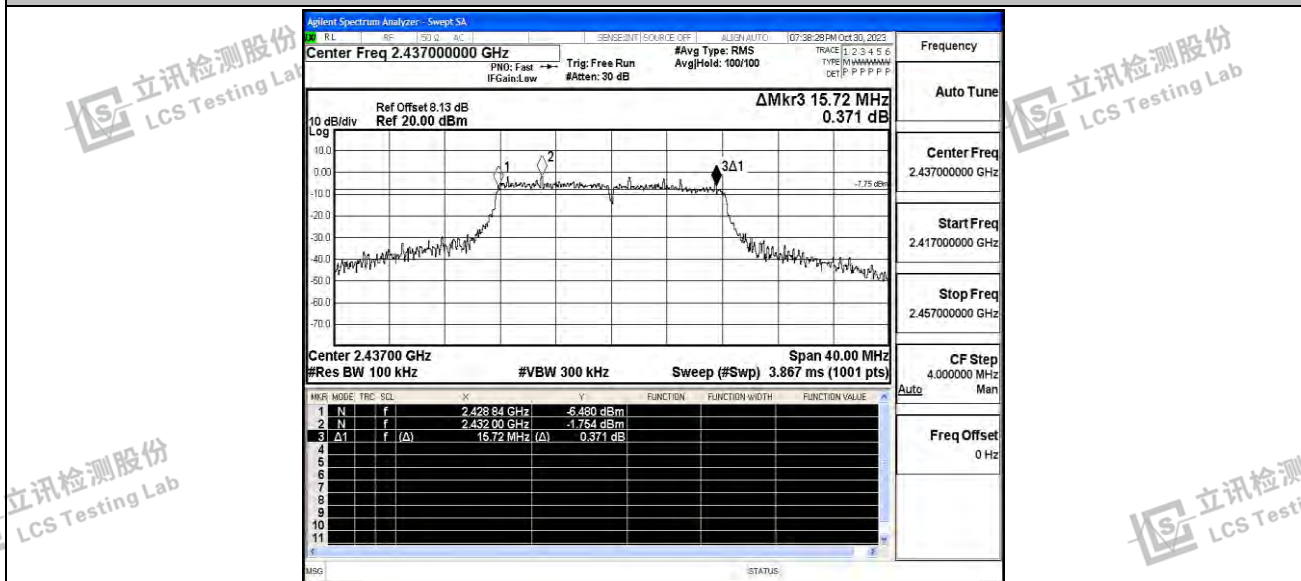
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11G_Ant_2412



11G_Ant_2437



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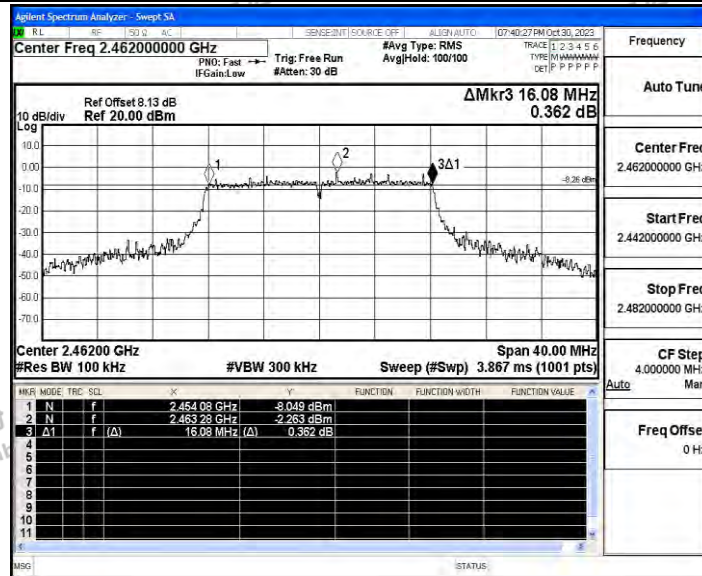
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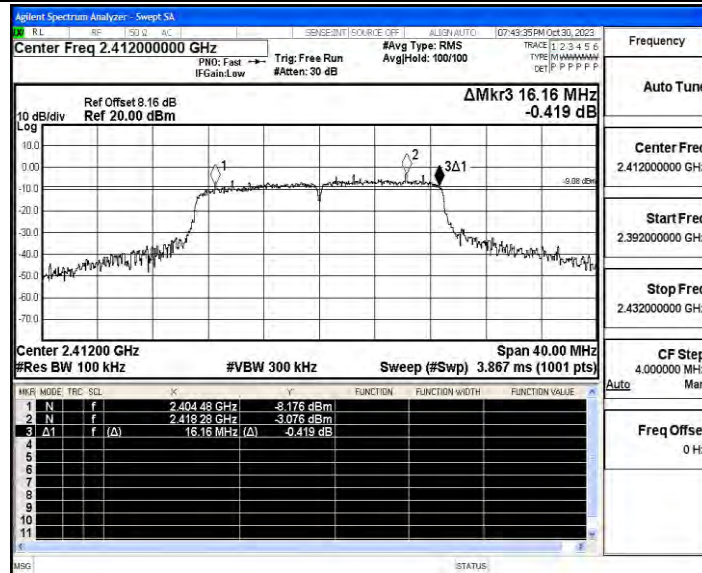
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11G_Ant_2462



11N20SISO_Ant_2412



11N20SISO_Ant_2437

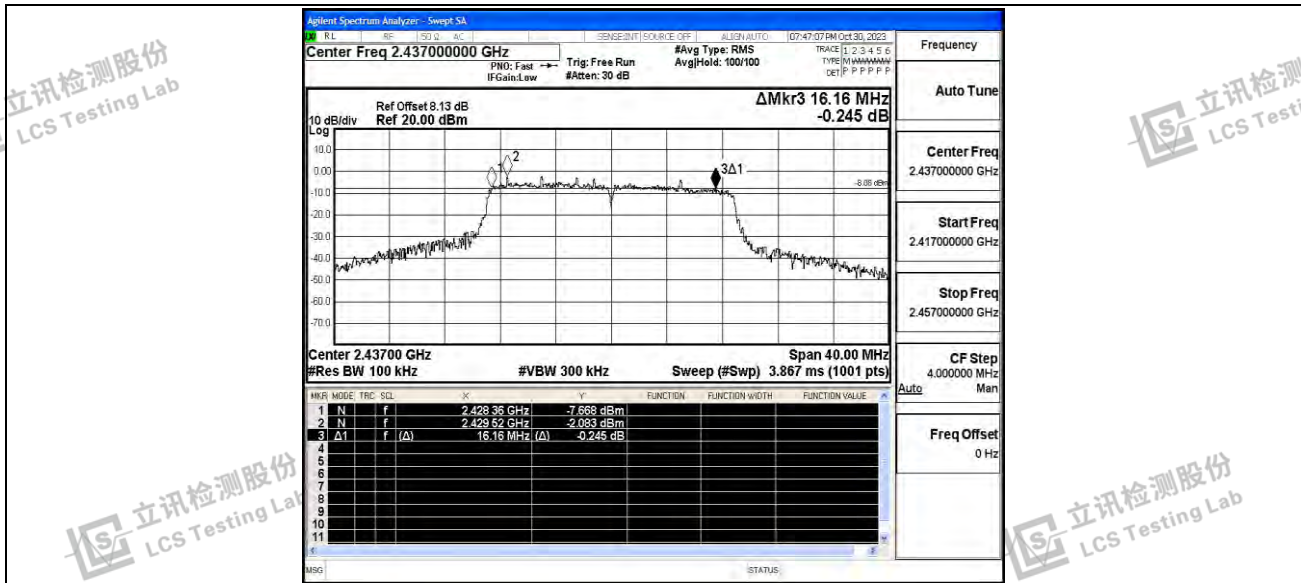


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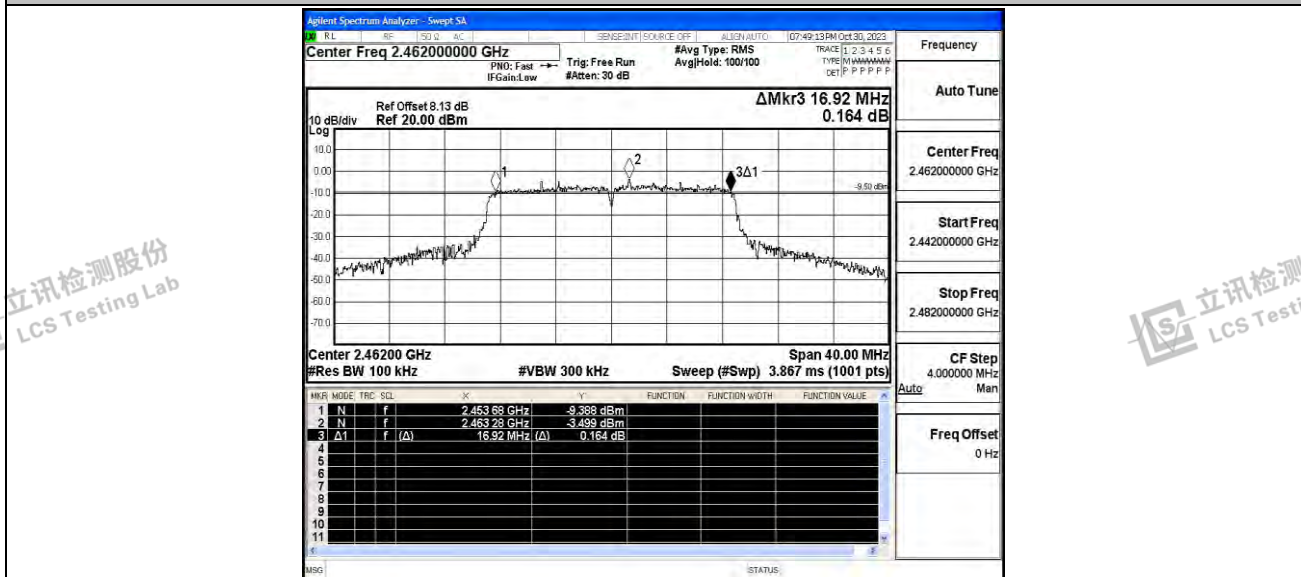
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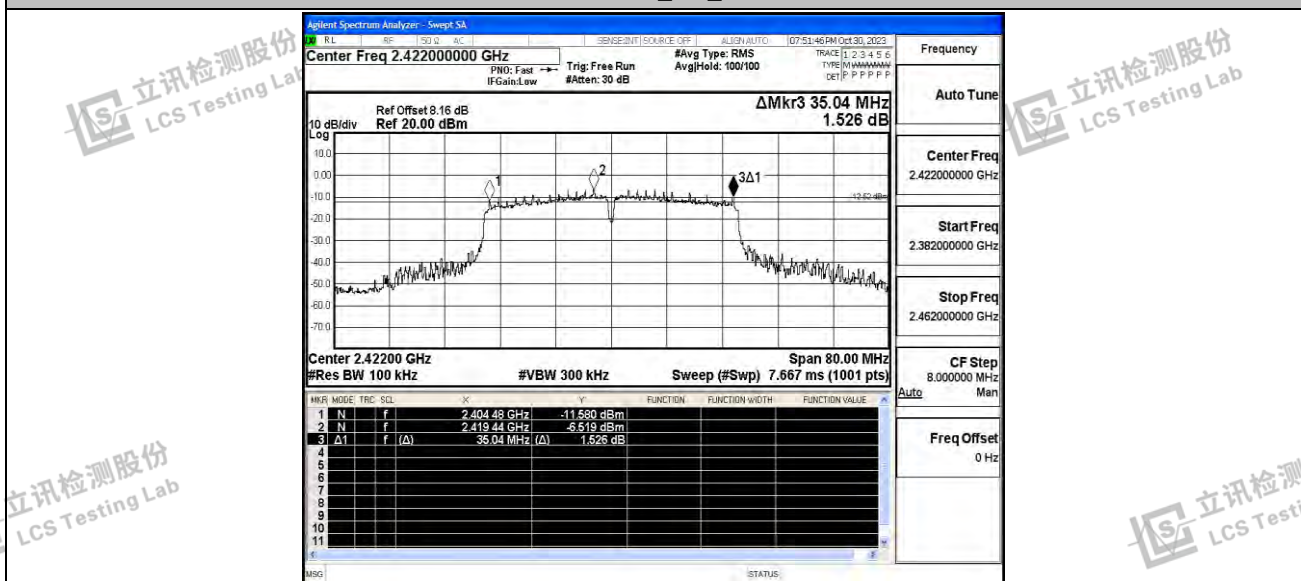
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11N20ISO_Ant_2462



11N40ISO_Ant_2422



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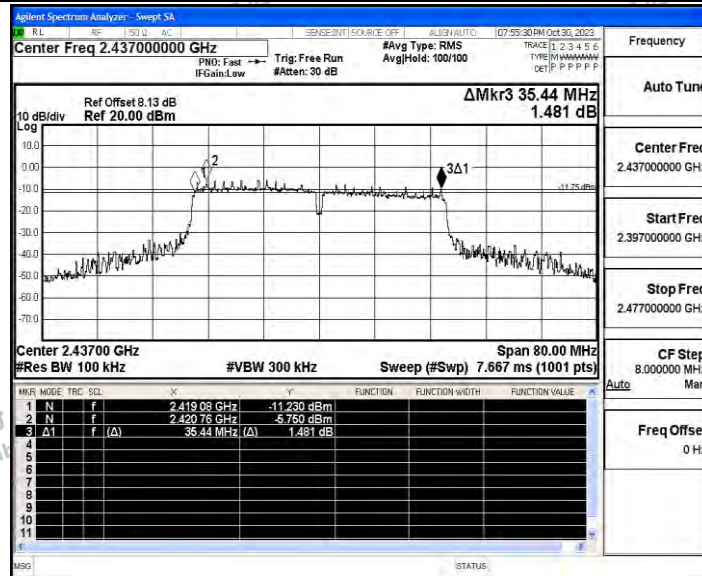
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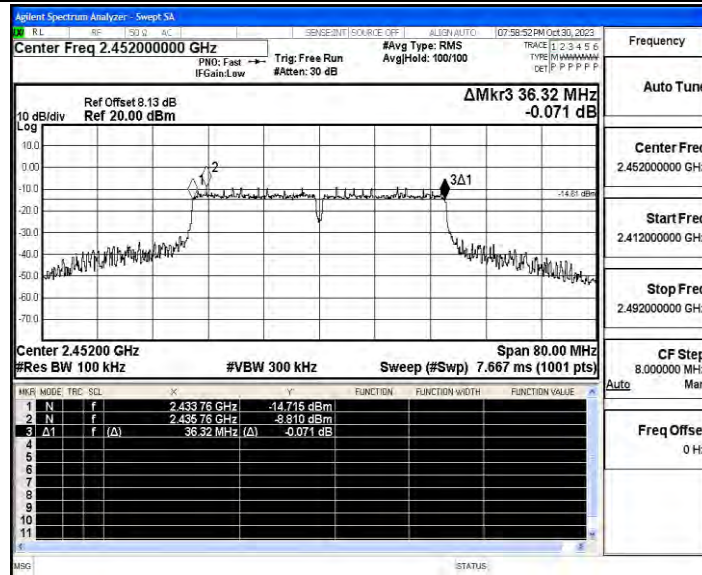
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11N40SISO_Ant_2437



11N40SISO_Ant_2452



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C.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant	2412	14.42	≤30.00	PASS
		2437	14.90	≤30.00	PASS
		2462	14.78	≤30.00	PASS
11G	Ant	2412	14.11	≤30.00	PASS
		2437	15.59	≤30.00	PASS
		2462	14.64	≤30.00	PASS
11N20SISO	Ant	2412	14.09	≤30.00	PASS
		2437	14.89	≤30.00	PASS
		2462	13.95	≤30.00	PASS
11N40SISO	Ant	2422	13.06	≤30.00	PASS
		2437	13.73	≤30.00	PASS
		2452	11.58	≤30.00	PASS





C.3 Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant	2412	-11.13	≤8.00	PASS
		2437	-10.42	≤8.00	PASS
		2462	-8.1	≤8.00	PASS
11G	Ant	2412	-17.52	≤8.00	PASS
		2437	-15.28	≤8.00	PASS
		2462	-17.21	≤8.00	PASS
11N20SISO	Ant	2412	-16.86	≤8.00	PASS
		2437	-16.95	≤8.00	PASS
		2462	-18.36	≤8.00	PASS
11N40SISO	Ant	2422	-20.5	≤8.00	PASS
		2437	-20.93	≤8.00	PASS
		2452	-22.93	≤8.00	PASS



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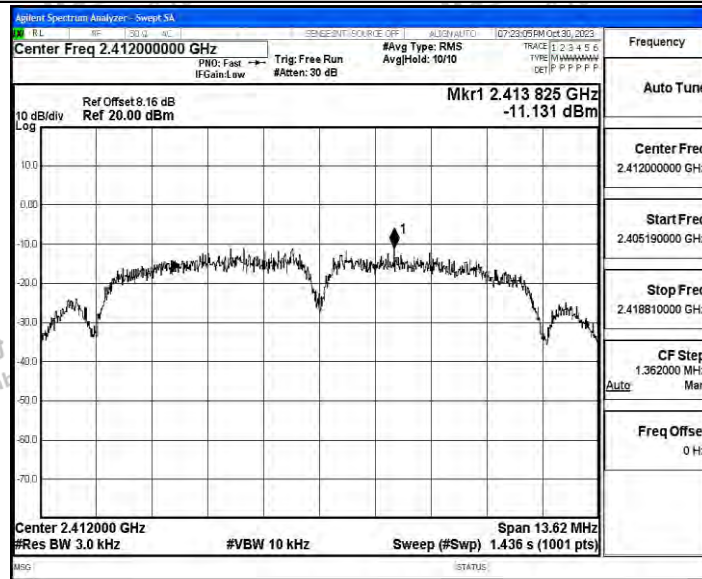
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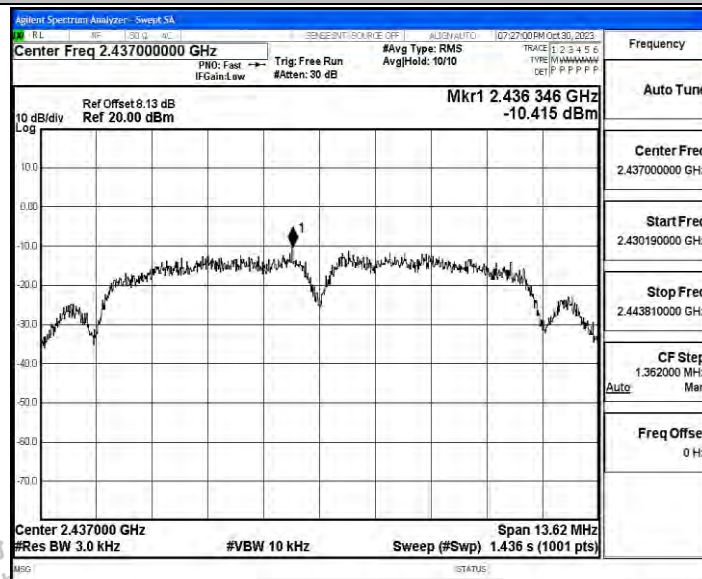


Test Graphs

11B_Ant_2412



11B_Ant_2437



11B_Ant_2462

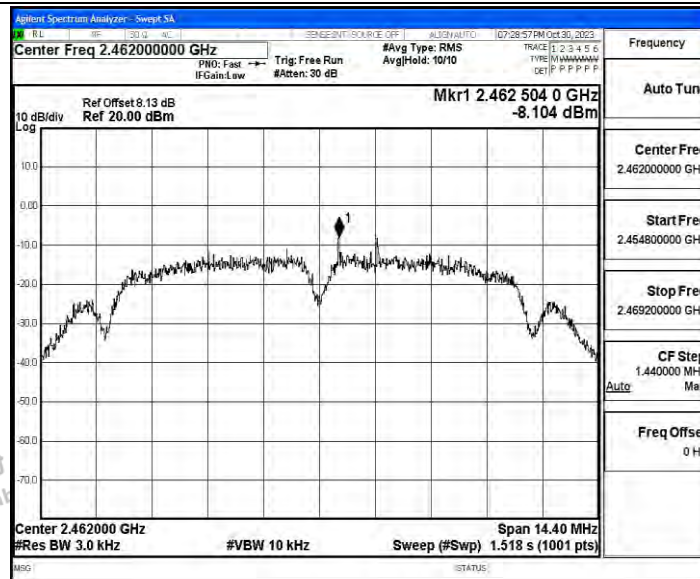


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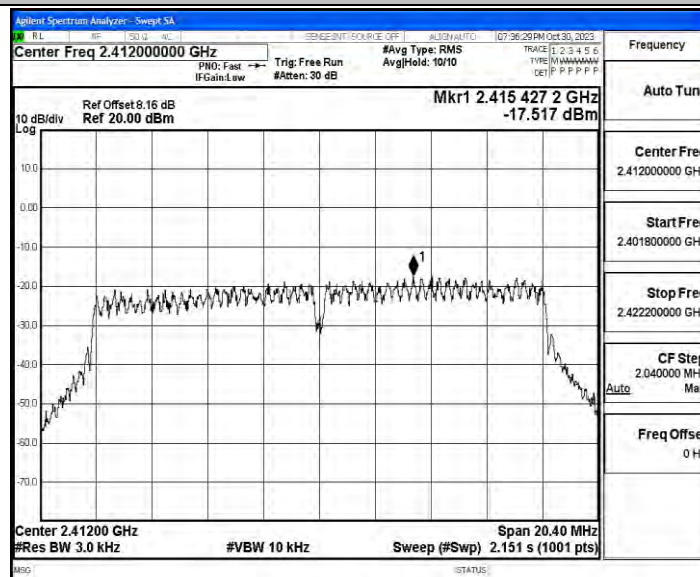
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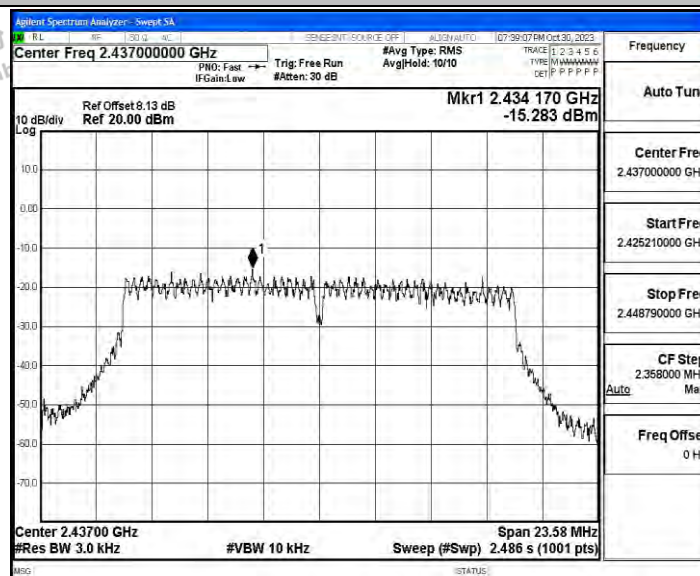
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11G_Ant_2412



11G_Ant_2437



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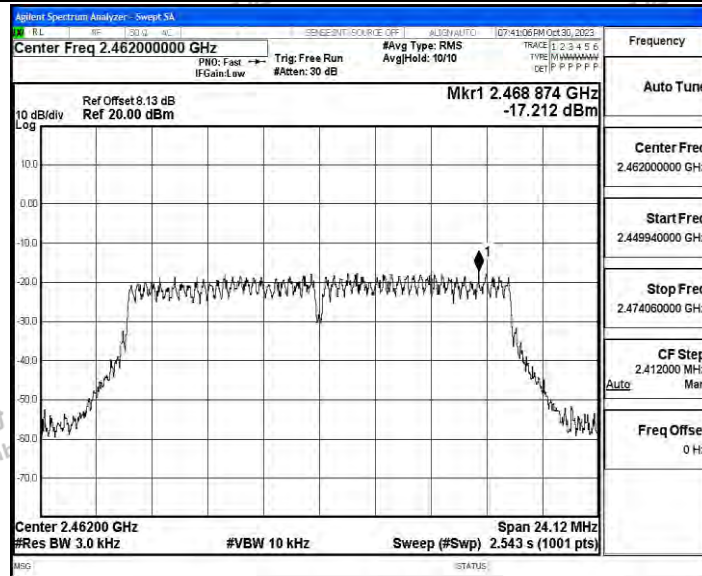
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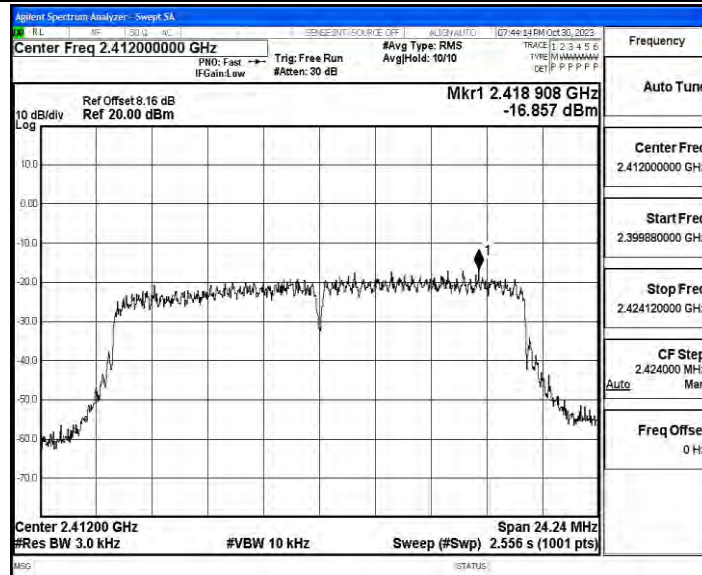
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11G_Ant_2462



11N20SISO_Ant_2412



11N20SISO_Ant_2437

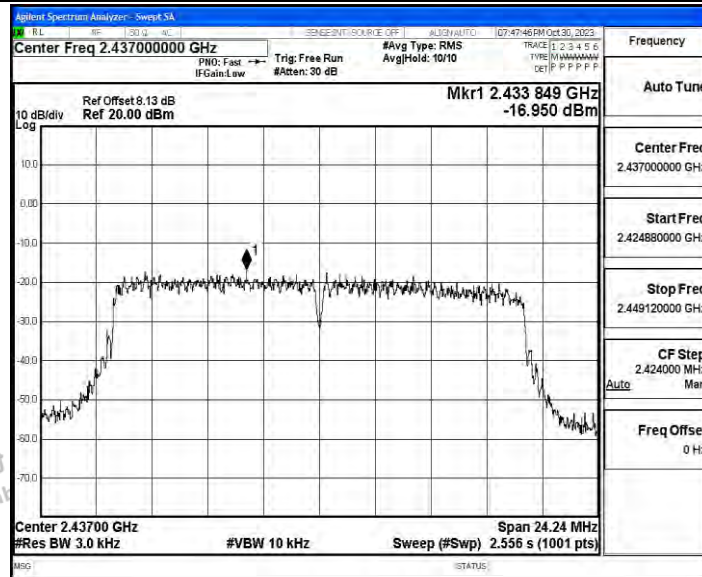


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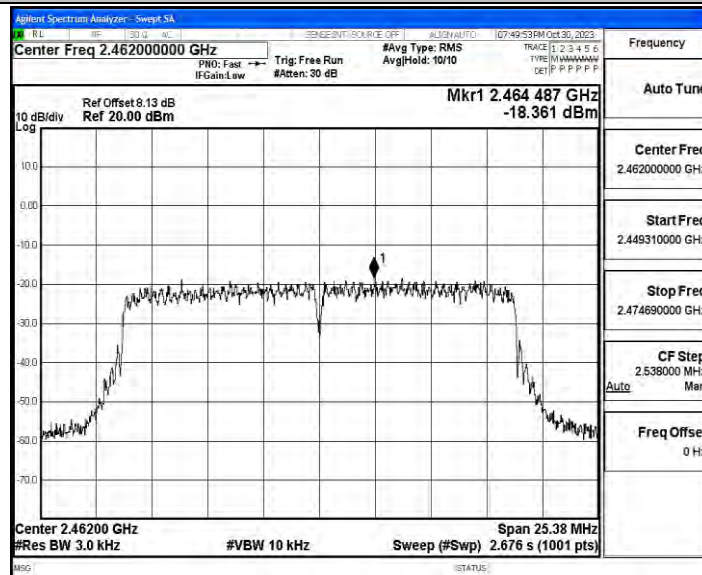
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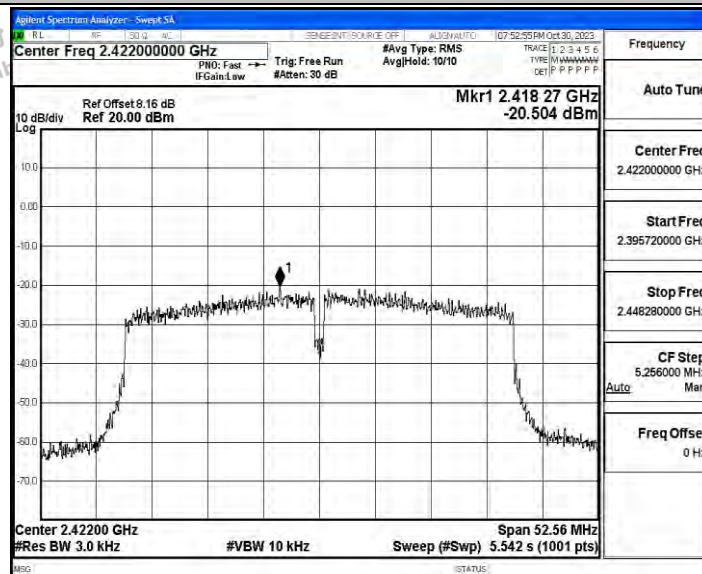
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11N20SISO_Ant_2462



11N40SISO_Ant_2422



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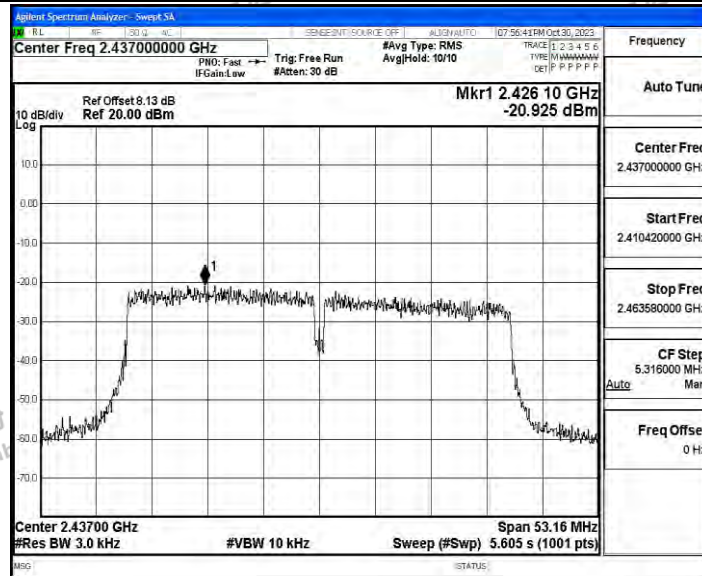
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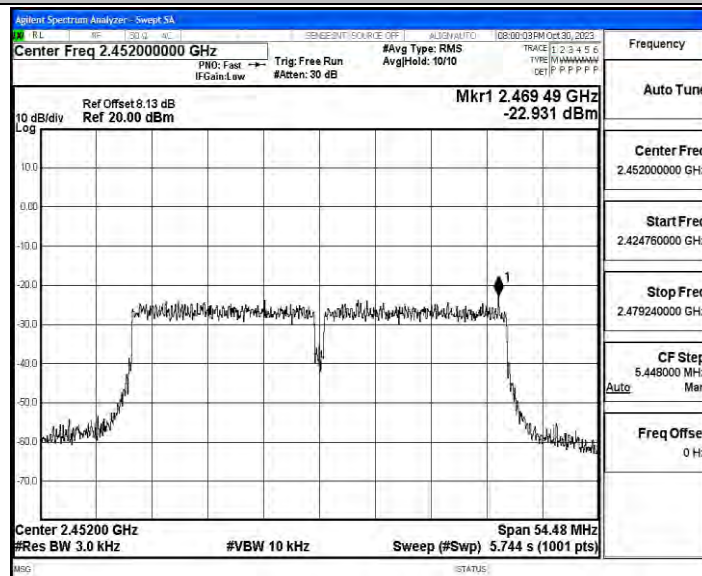
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11N40SISO_Ant_2437



11N40SISO_Ant_2452





C.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	Low	2412	2.38	-45.76	≤ -17.62	PASS
		High	2462	2.84	-50.06	≤ -17.16	PASS
11G	Ant	Low	2412	-2.75	-39.35	≤ -22.75	PASS
		High	2462	-2.46	-46.3	≤ -22.46	PASS
11N20SISO	Ant	Low	2412	-3.36	-36.84	≤ -23.36	PASS
		High	2462	-3.78	-46.89	≤ -23.78	PASS
11N40SISO	Ant	Low	2422	-5.83	-36.89	≤ -25.83	PASS
		High	2452	-8.88	-42.84	≤ -28.88	PASS



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Test Graphs

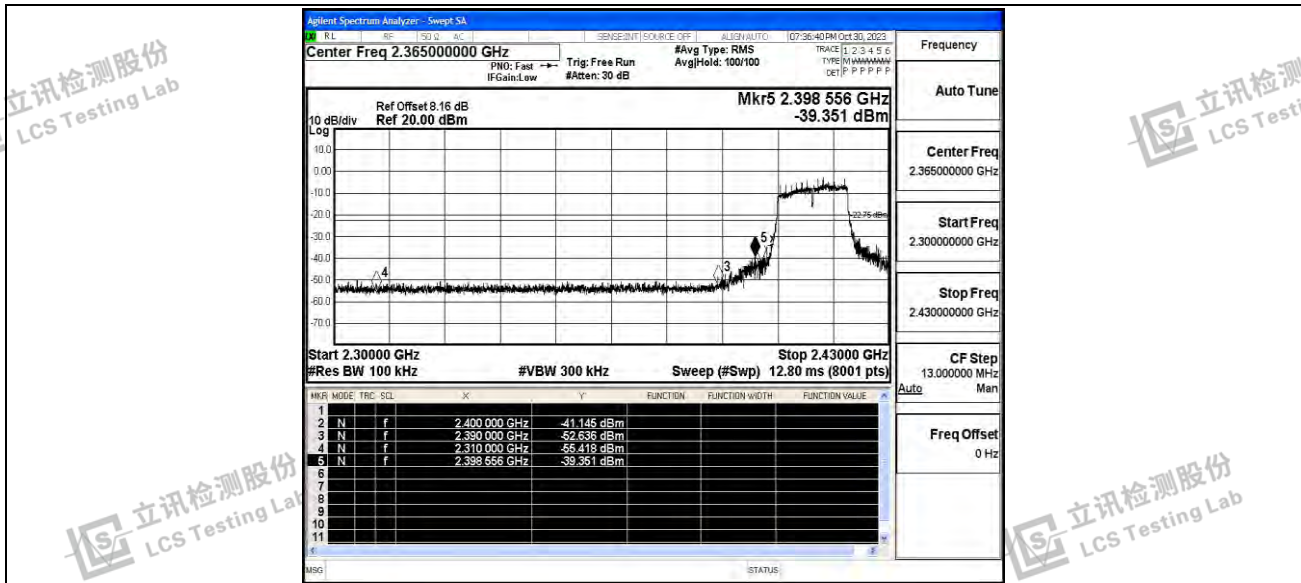


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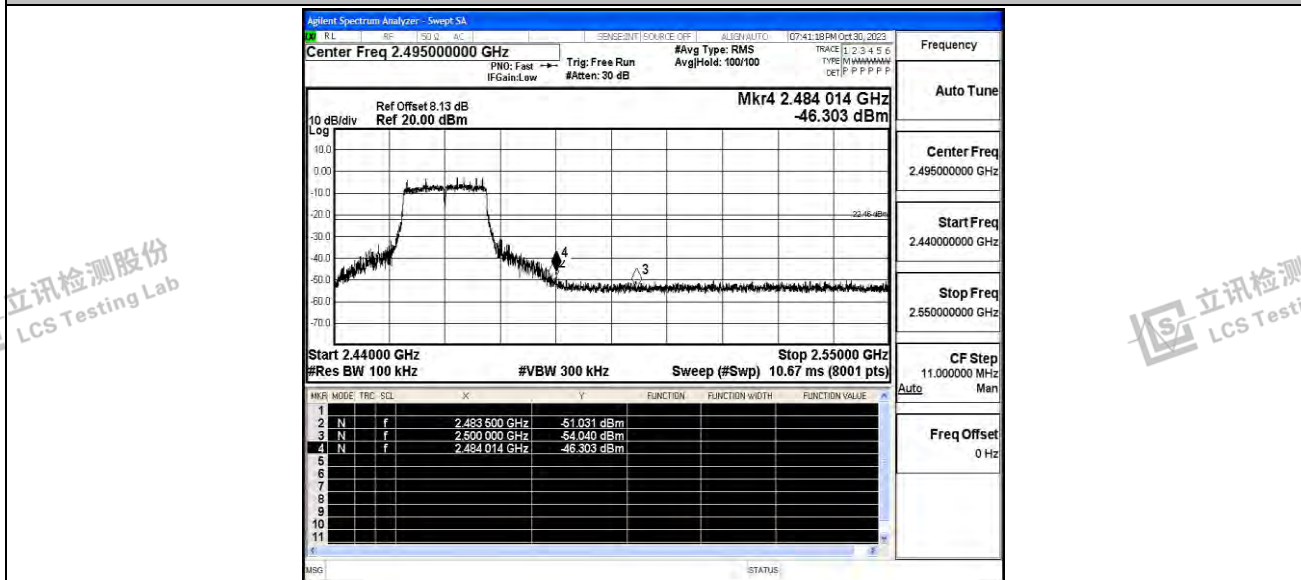
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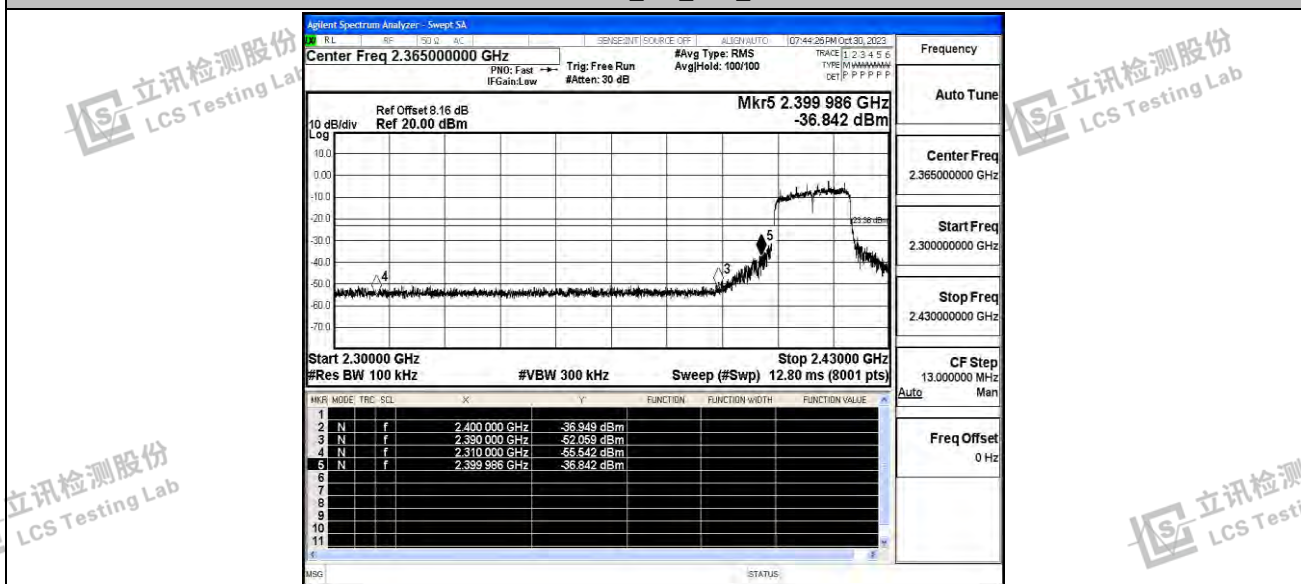
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11G_Ant_High_2462



11N20SISO_Ant_Low_2412



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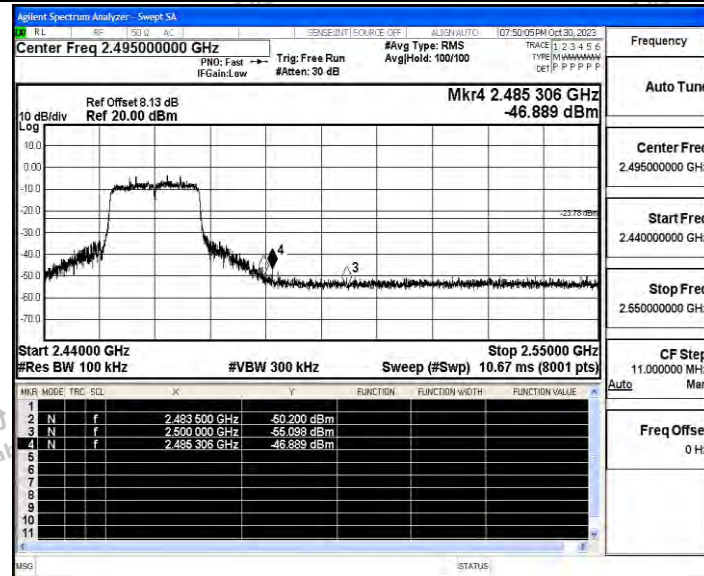
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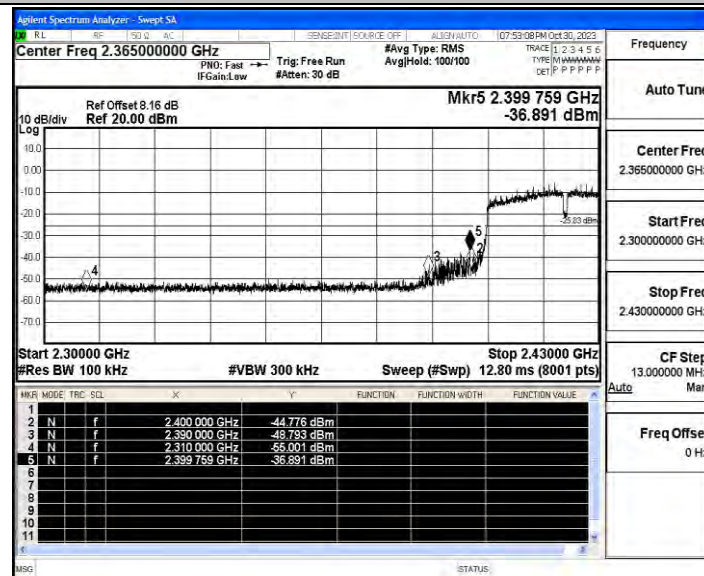
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11N20SISO_Ant_High_2462



11N40SISO_Ant_Low_2422



11N40SISO_Ant_High_2452

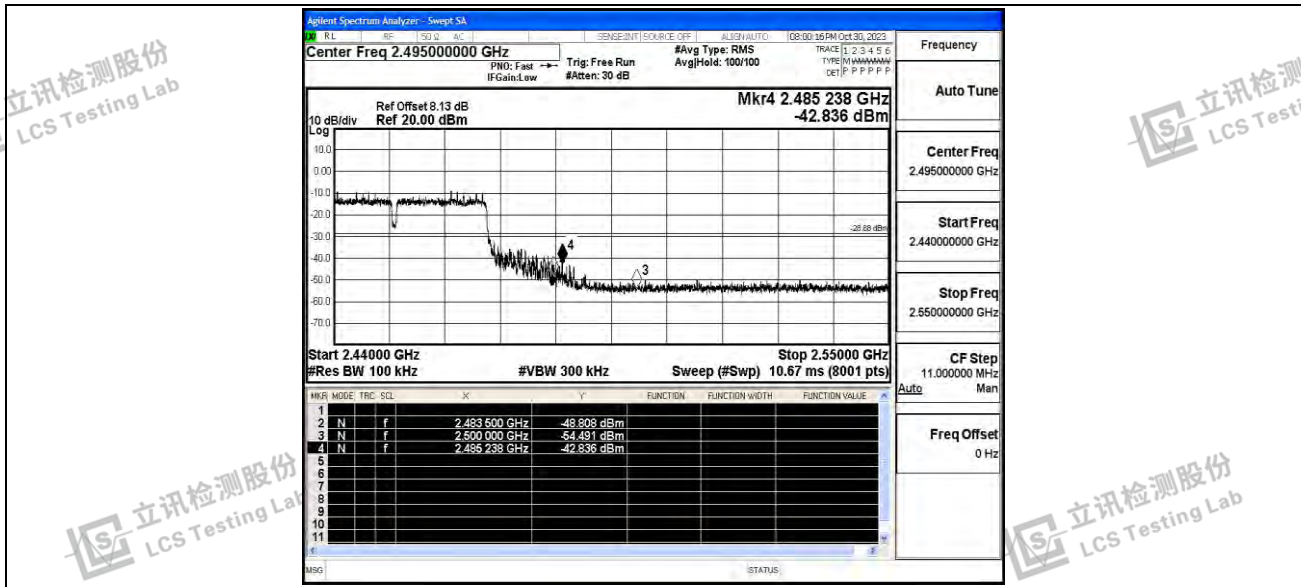


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C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant	2412	30~1000	2.38	-61.33	≤ -17.62	PASS
			1000~26500	2.38	-42.83	≤ -17.62	PASS
		2437	30~1000	2.83	-61.04	≤ -17.17	PASS
			1000~26500	2.83	-42.88	≤ -17.17	PASS
		2462	30~1000	2.84	-61.05	≤ -17.16	PASS
			1000~26500	2.84	-41.27	≤ -17.16	PASS
11G	Ant	2412	30~1000	-2.75	-61.24	≤ -22.75	PASS
			1000~26500	-2.75	-49.3	≤ -22.75	PASS
		2437	30~1000	-2.10	-61.92	≤ -22.1	PASS
			1000~26500	-2.10	-48.61	≤ -22.1	PASS
		2462	30~1000	-2.46	-61.99	≤ -22.46	PASS
			1000~26500	-2.46	-48.96	≤ -22.46	PASS
11N20SISO	Ant	2412	30~1000	-3.36	-61.51	≤ -23.36	PASS
			1000~26500	-3.36	-49.2	≤ -23.36	PASS
		2437	30~1000	-2.13	-61.19	≤ -22.13	PASS
			1000~26500	-2.13	-49.17	≤ -22.13	PASS
		2462	30~1000	-3.78	-61.1	≤ -23.78	PASS
			1000~26500	-3.78	-48.63	≤ -23.78	PASS
11N40SISO	Ant	2422	30~1000	-5.83	-61.32	≤ -25.83	PASS
			1000~26500	-5.83	-48.7	≤ -25.83	PASS
		2437	30~1000	-5.86	-61.65	≤ -25.86	PASS
			1000~26500	-5.86	-46.87	≤ -25.86	PASS
		2452	30~1000	-8.88	-61.44	≤ -28.88	PASS
			1000~26500	-8.88	-48.96	≤ -28.88	PASS



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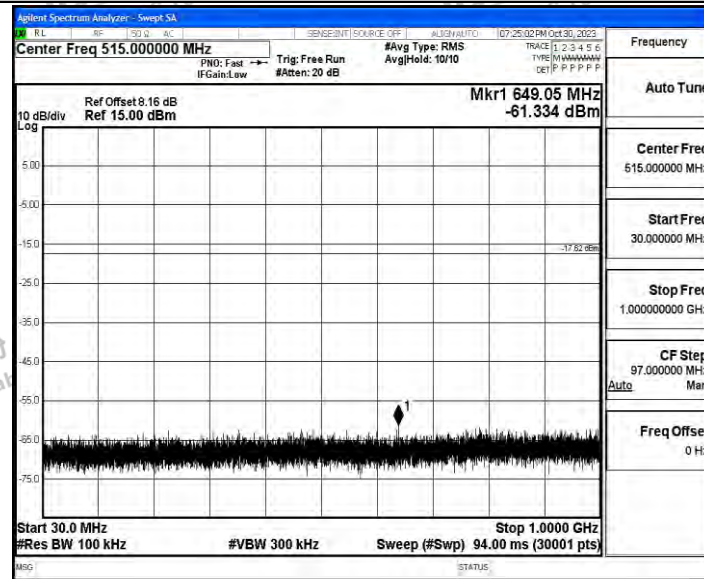
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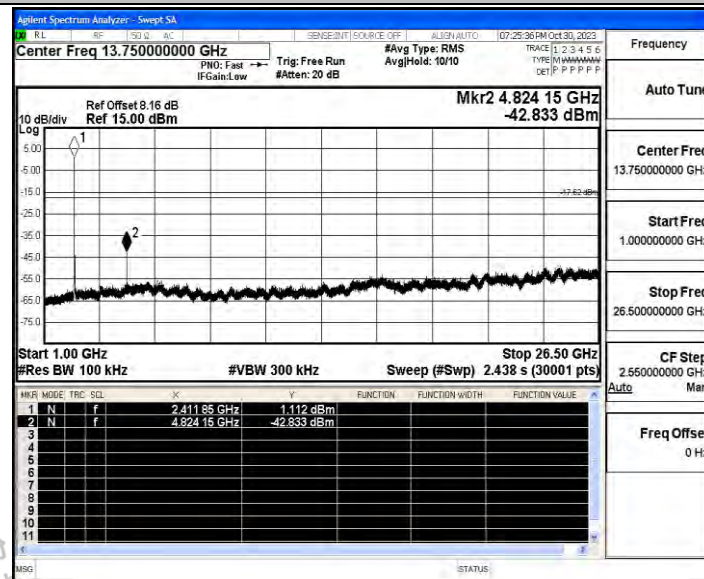


Test Graphs

11B_Ant_2412_30~1000



11B_Ant_2412_1000~26500



11B_Ant_2437_30~1000

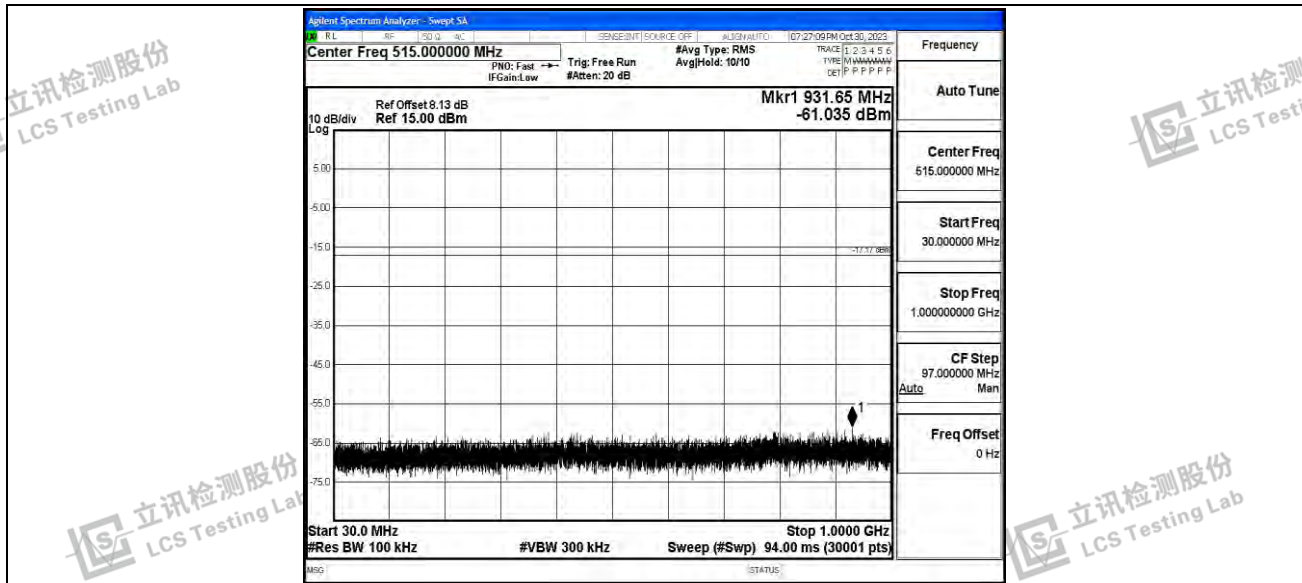


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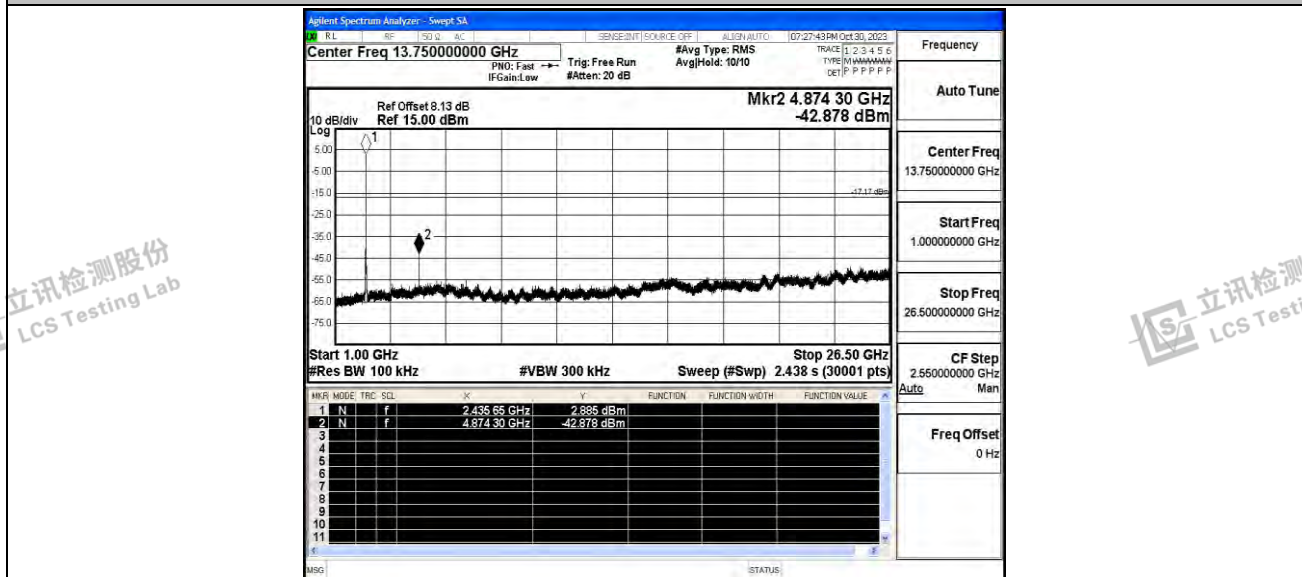
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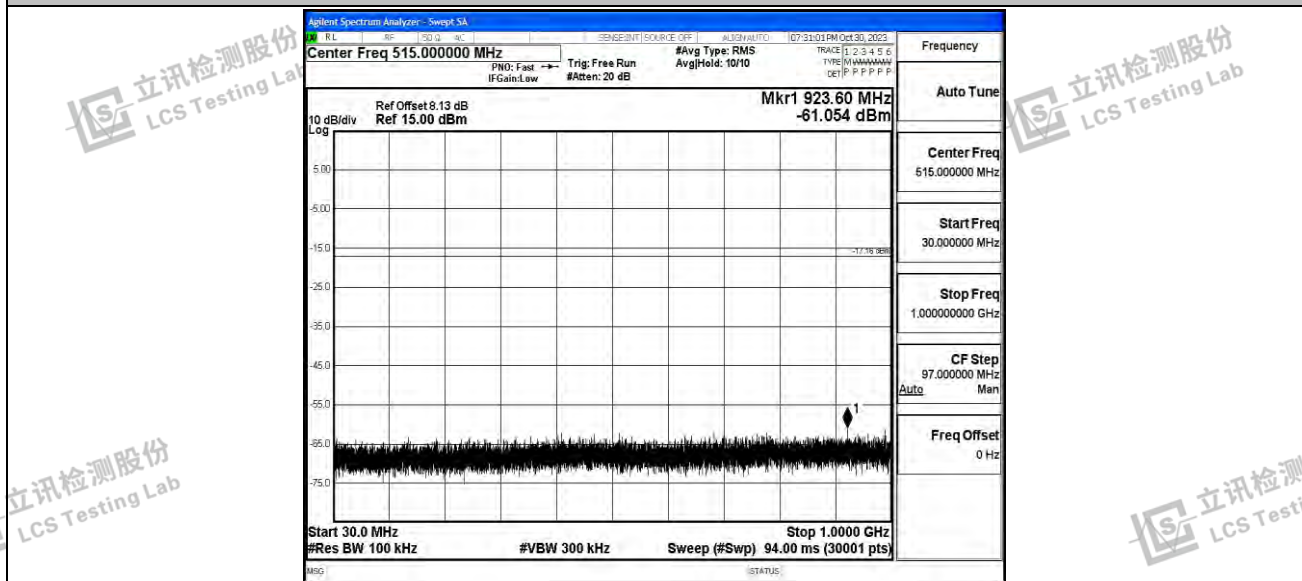
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11B_Ant_2437_1000~26500



11B_Ant_2462_30~1000



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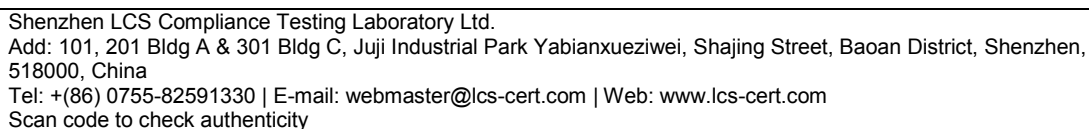
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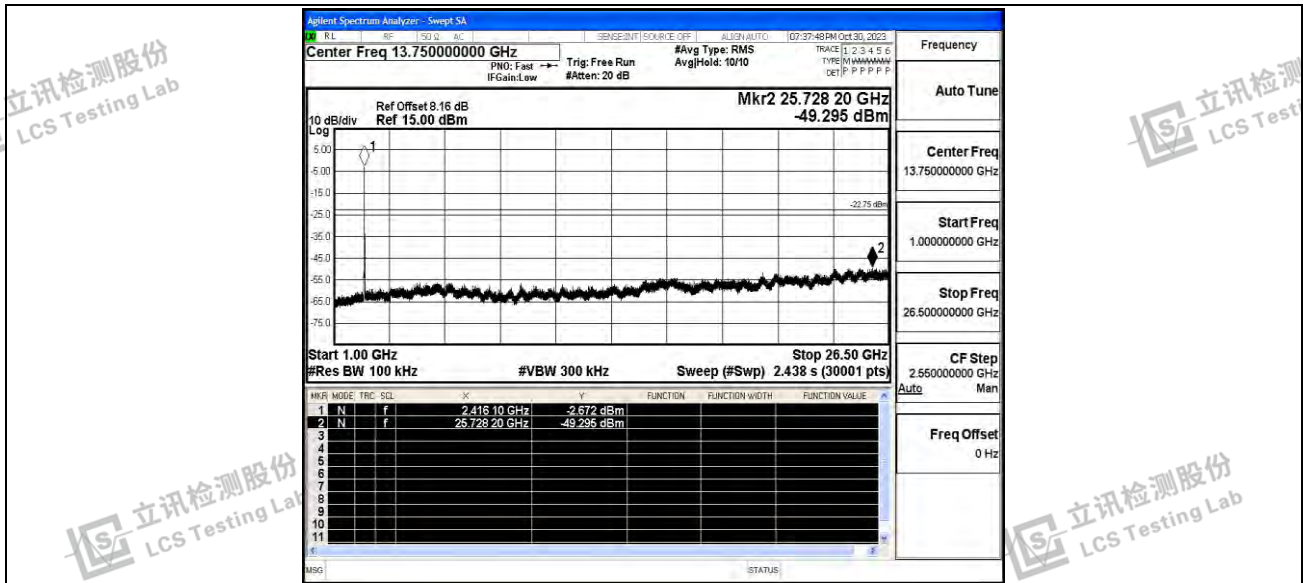
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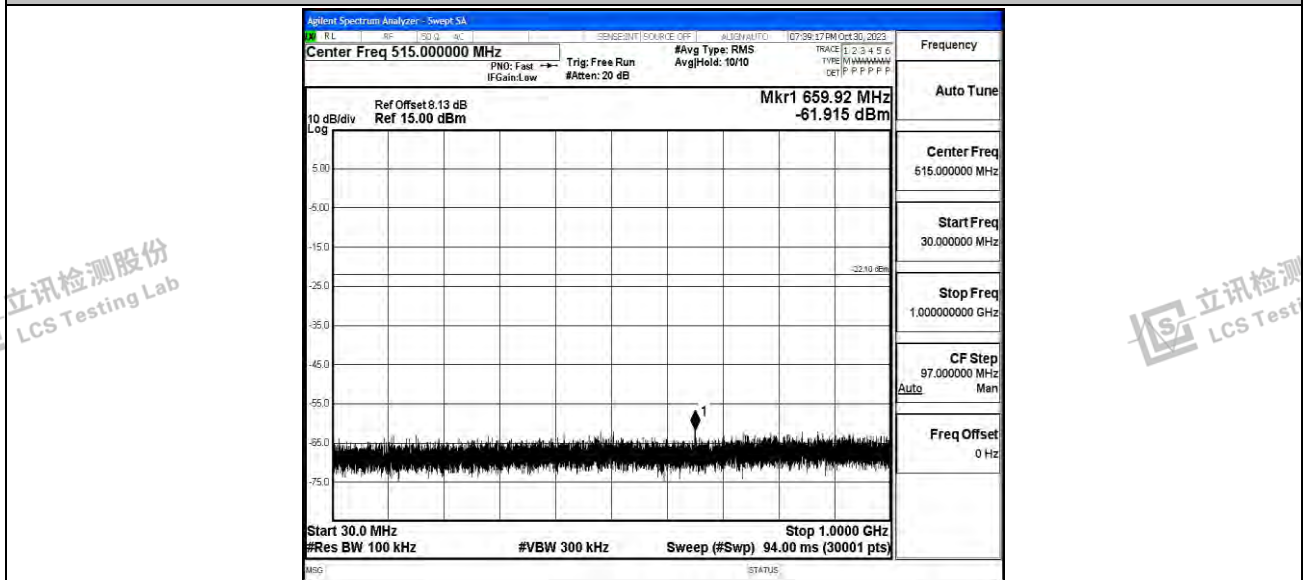


11G Ant 2412 1000~26500

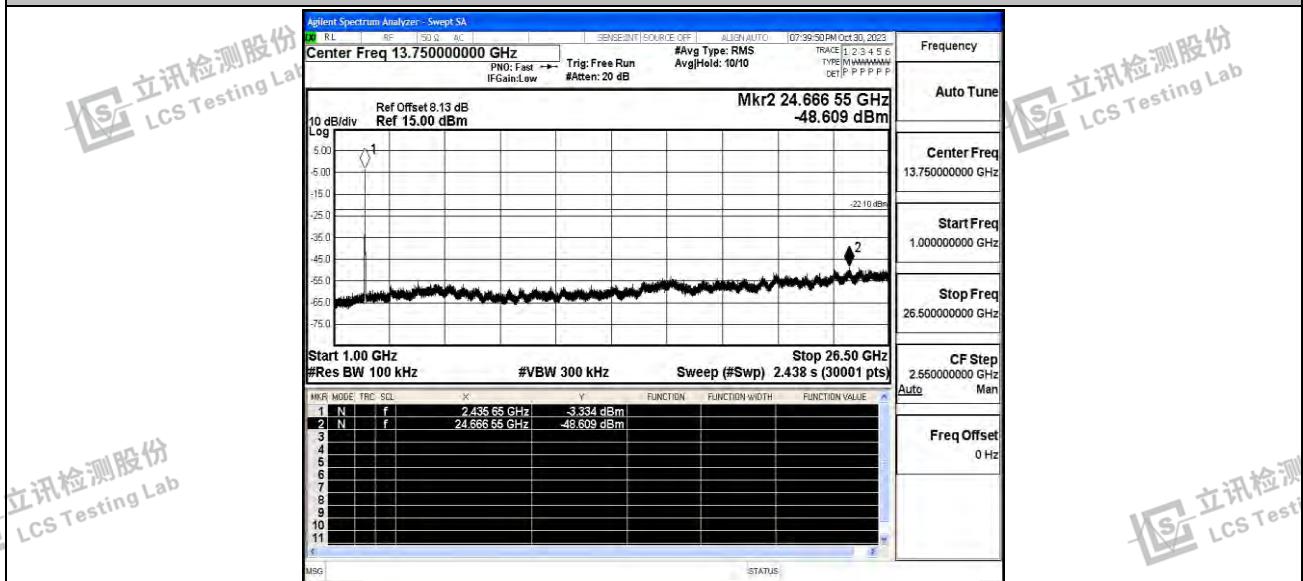




11G_Ant_2437_30~1000



11G_Ant_2437_1000~26500



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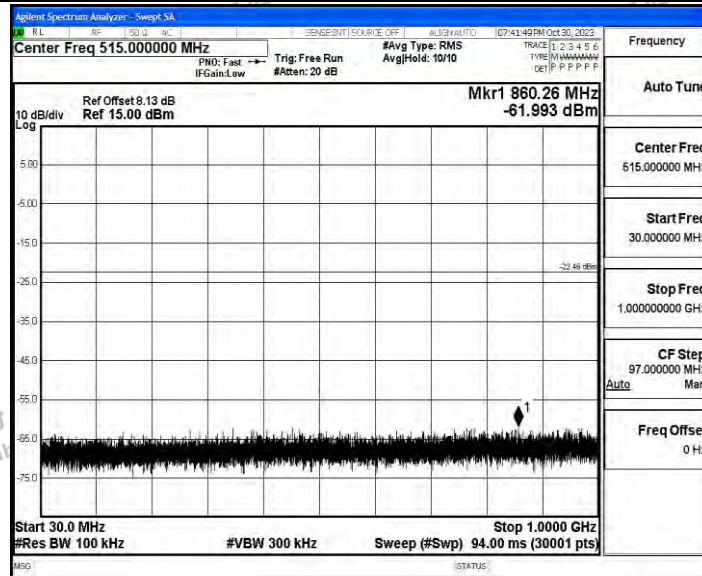
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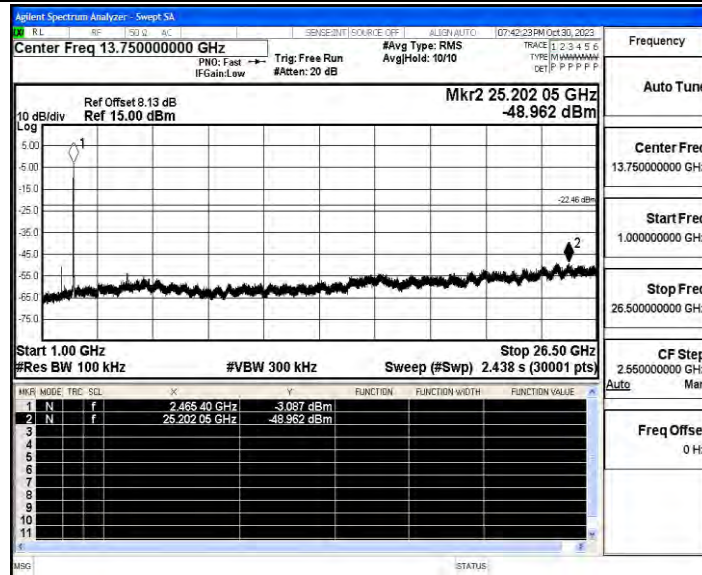
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11G_Ant_2462_30~1000



11G_Ant_2462_1000~26500



11N20SISO_Ant_2412_30~1000

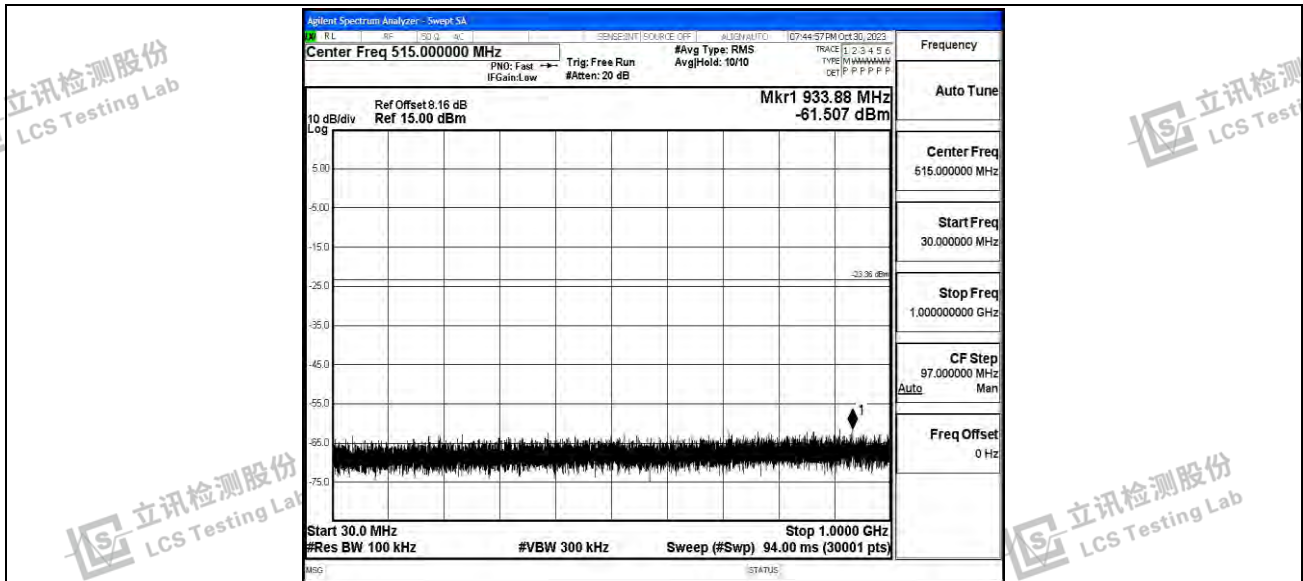


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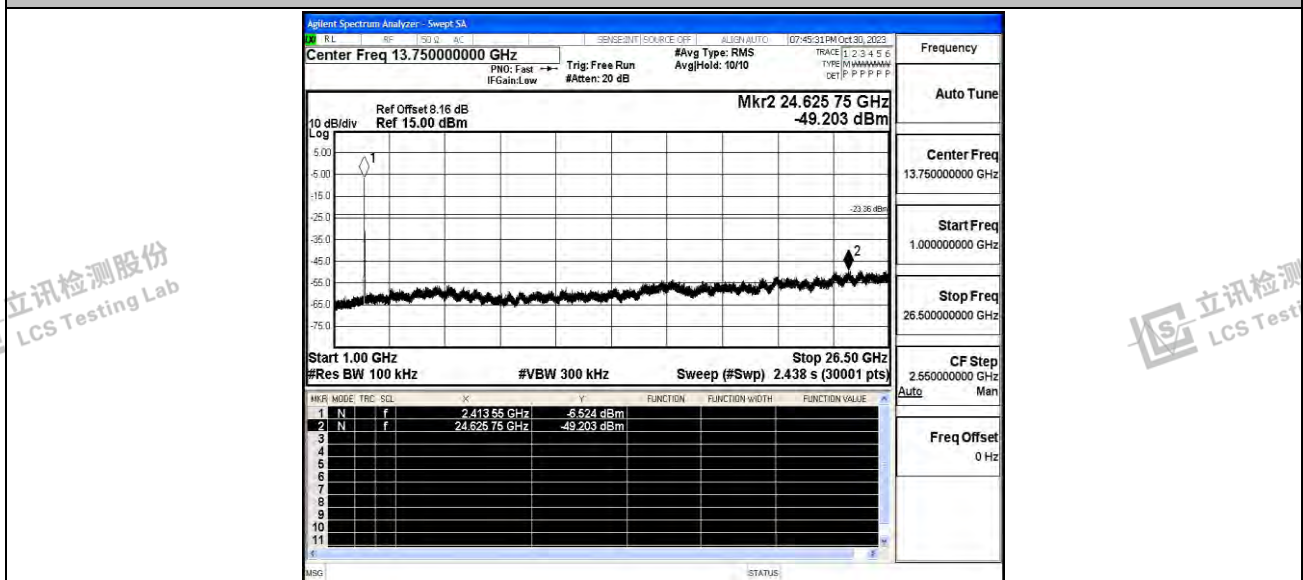
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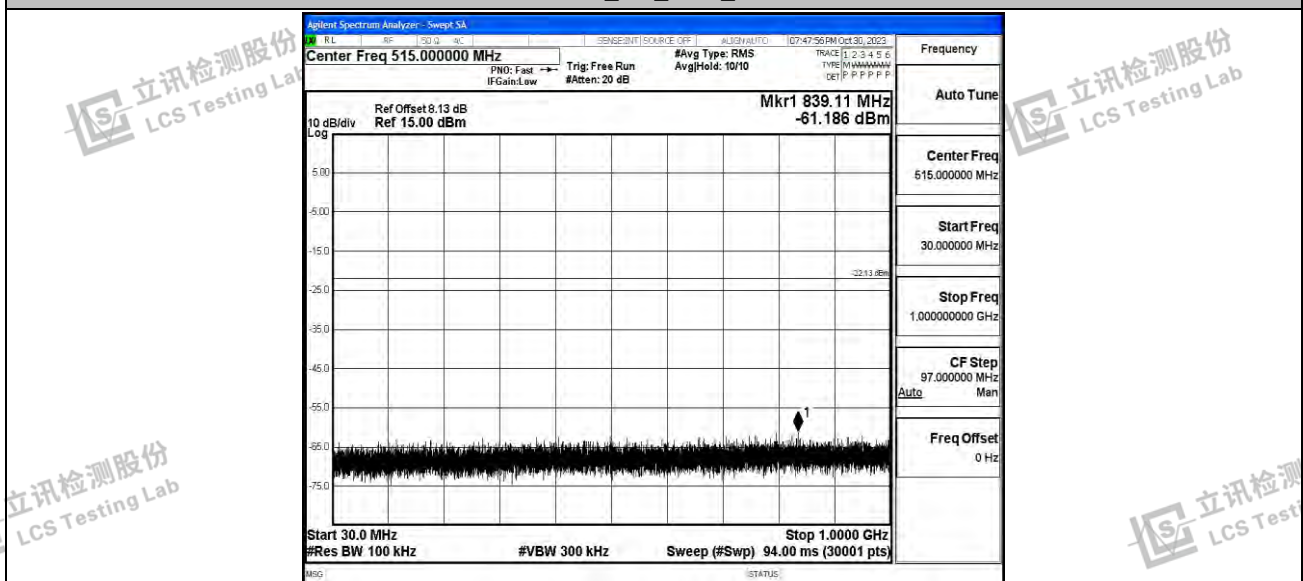
Scan code to check authenticity



11N20SISO_Ant_2412_1000~26500



11N20SISO_Ant_2437_30~1000



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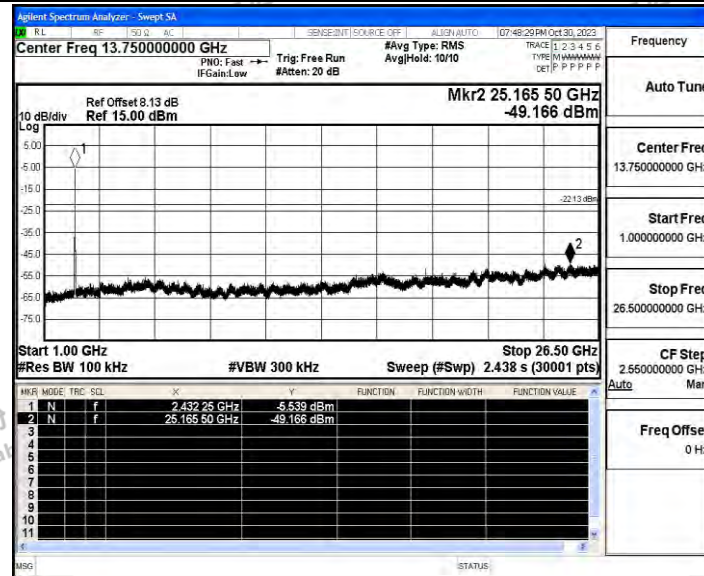
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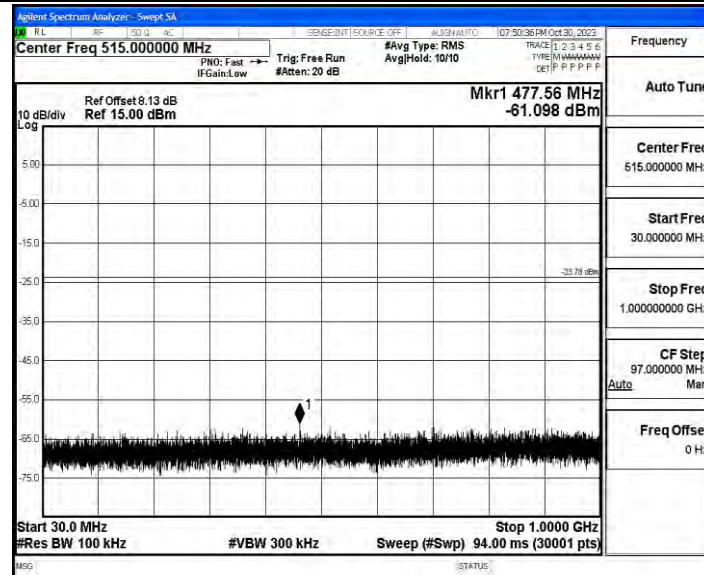
Scan code to check authenticity



11N20SISO_Ant_2437_1000~26500



11N20SISO_Ant_2462_30~1000



11N20SISO_Ant_2462_1000~26500



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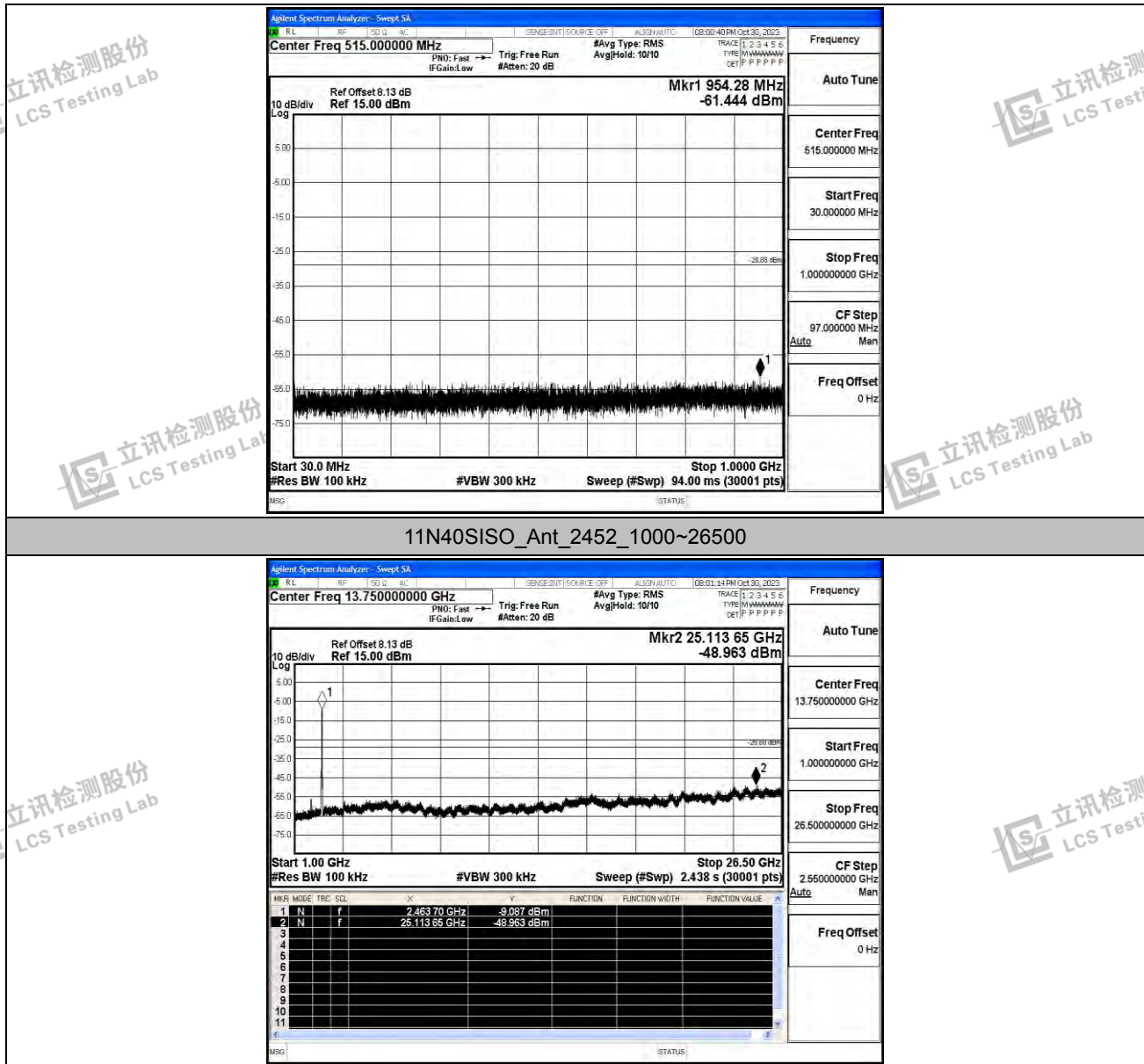
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C.6 Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor	Verdict
11B	Ant	2412	8.38	8.56	97.90	0.09	---
		2437	8.39	8.57	97.90	0.09	---
		2462	8.38	8.55	98.01	0.09	---
11G	Ant	2412	1.39	1.58	87.97	0.56	---
		2437	1.39	1.58	87.97	0.56	---
		2462	1.39	1.56	89.10	0.50	---
11N20SISO	Ant	2412	1.18	1.22	96.72	0.14	---
		2437	1.18	1.35	87.41	0.58	---
		2462	1.18	1.36	86.76	0.62	---
11N40SISO	Ant	2422	0.59	0.78	75.64	1.21	---
		2437	0.59	0.78	75.64	1.21	---
		2452	0.58	0.83	69.88	1.56	---



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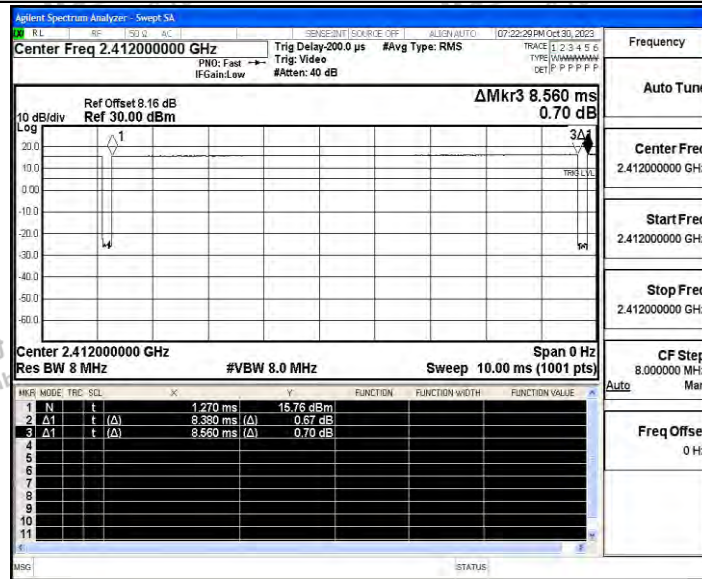
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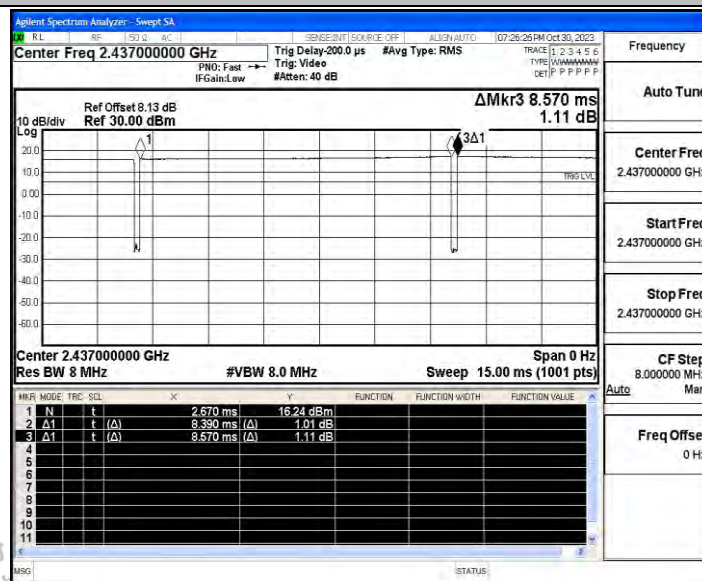


Test Graphs

11B_Ant_2412



11B_Ant_2437



11B_Ant_2462

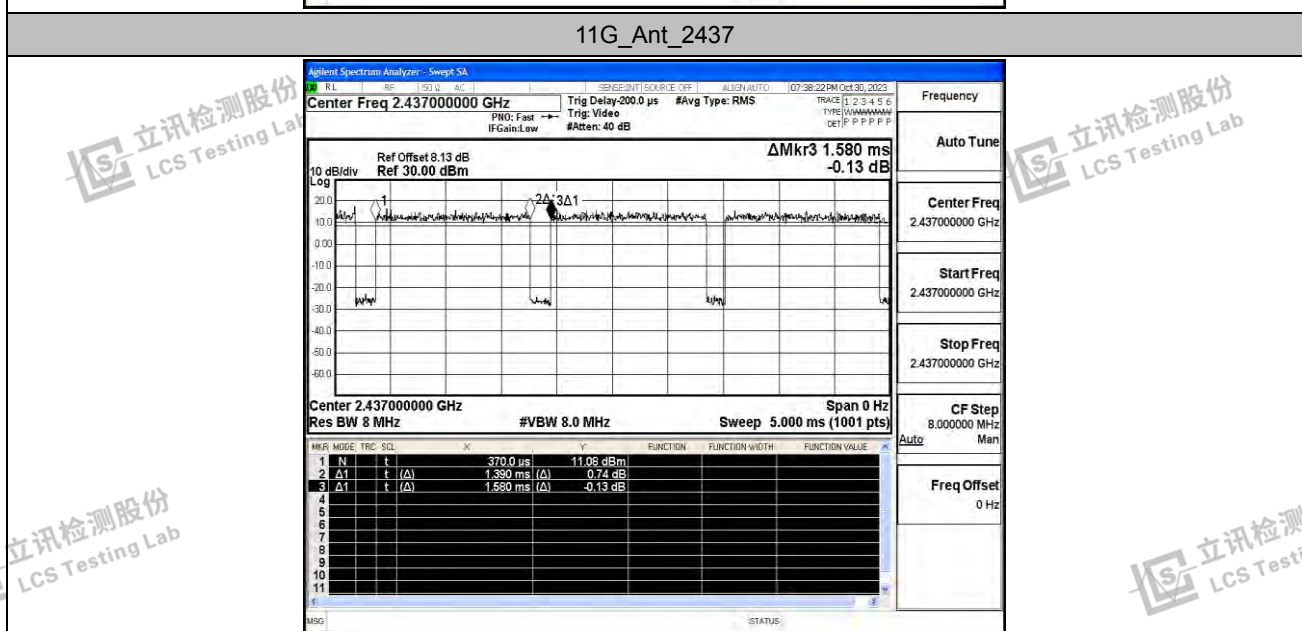
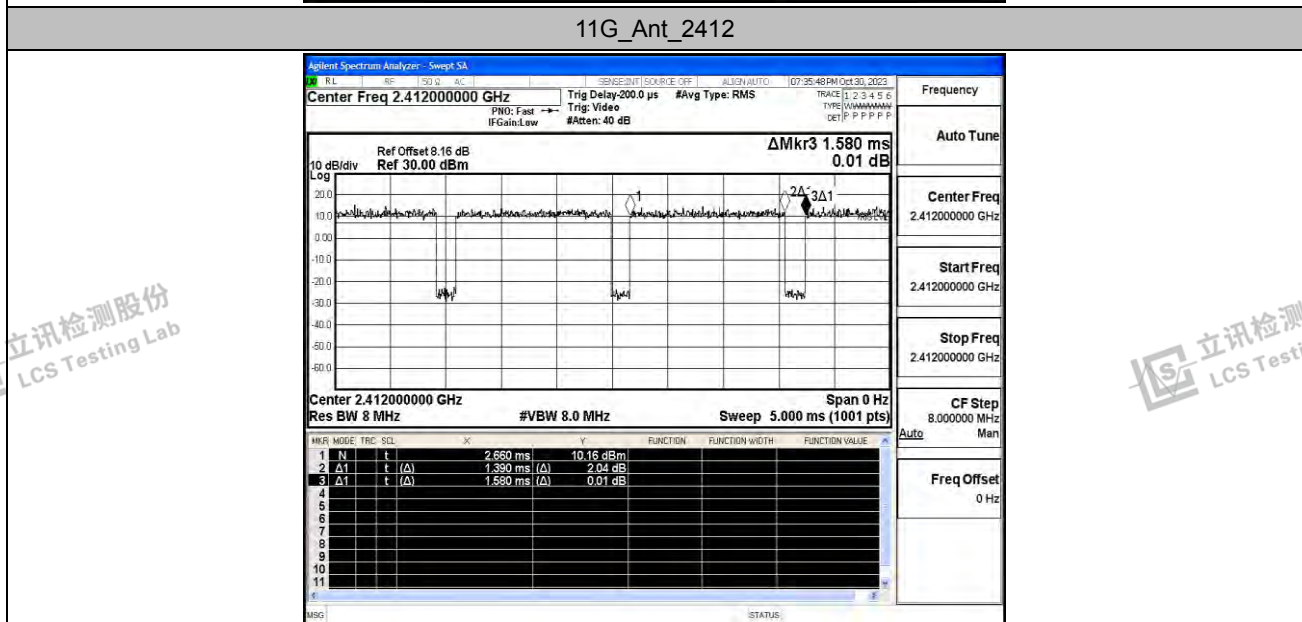
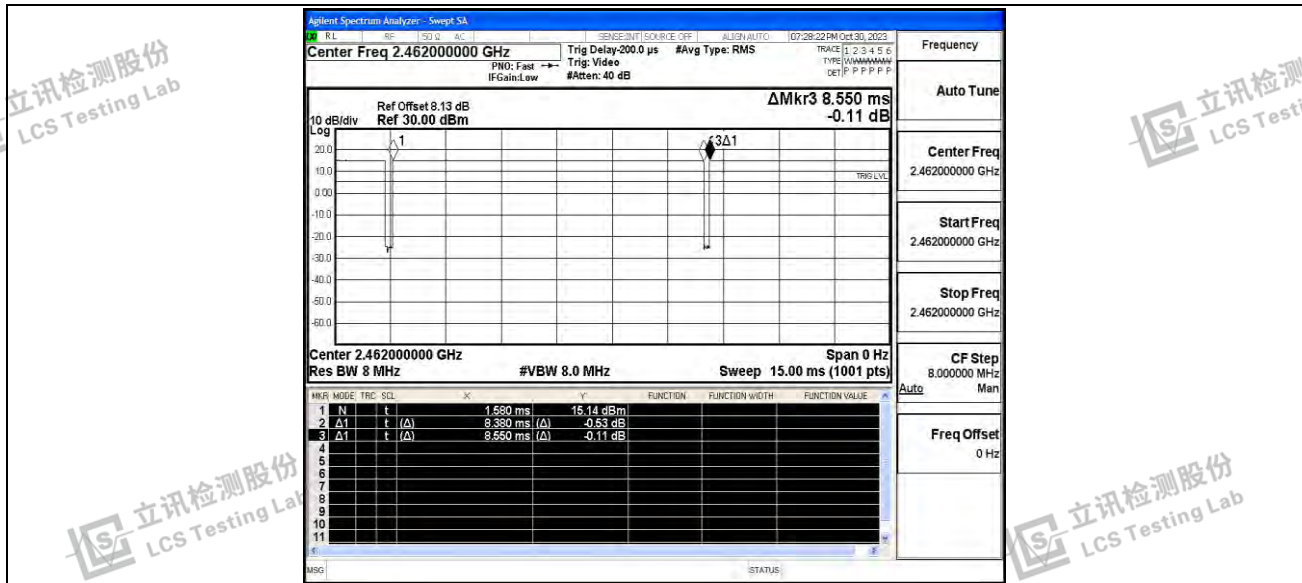


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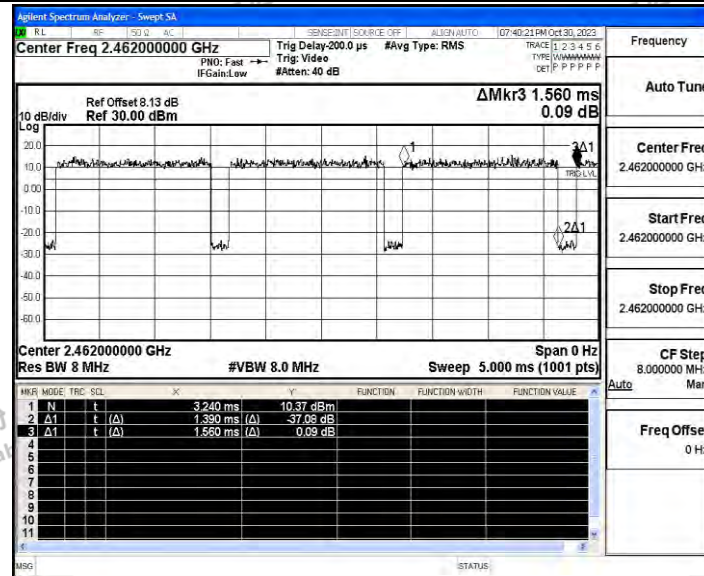
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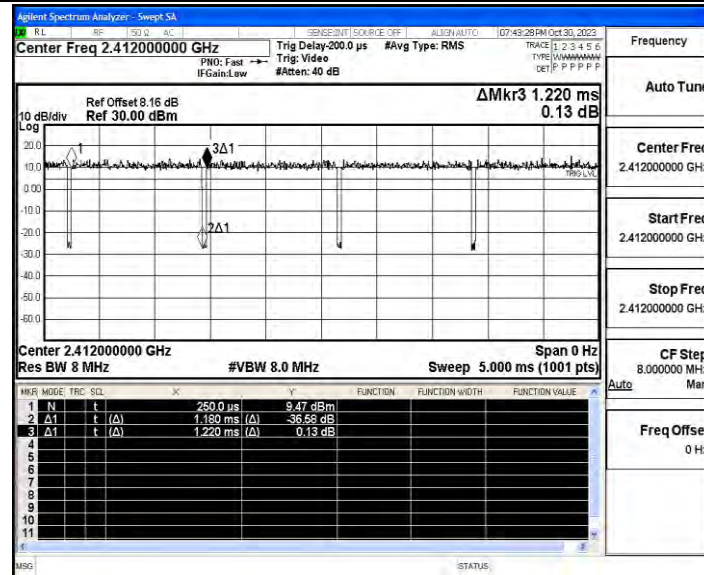
Scan code to check authenticity



11G_Ant_2462



11N20SISO_Ant_2412



11N20SISO_Ant_2437

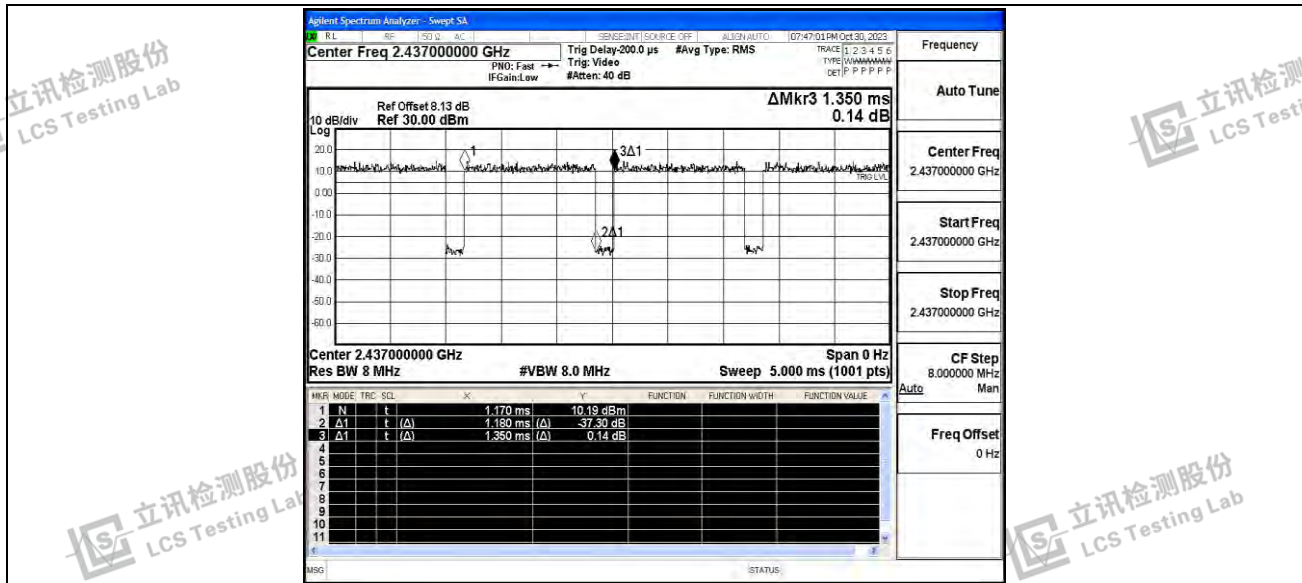


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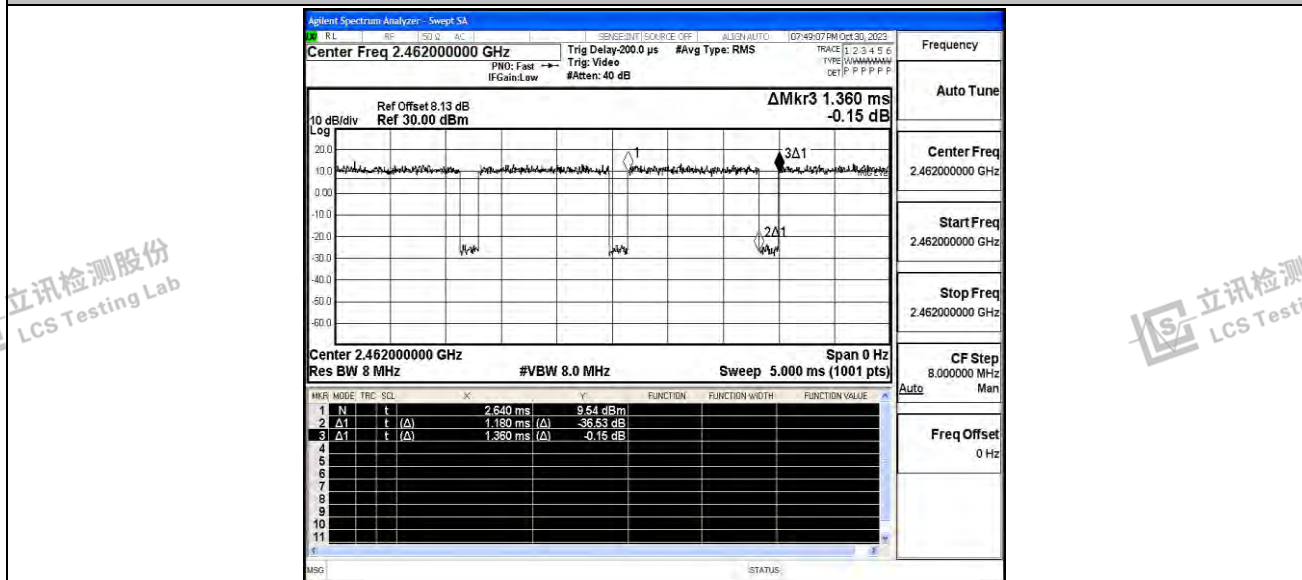
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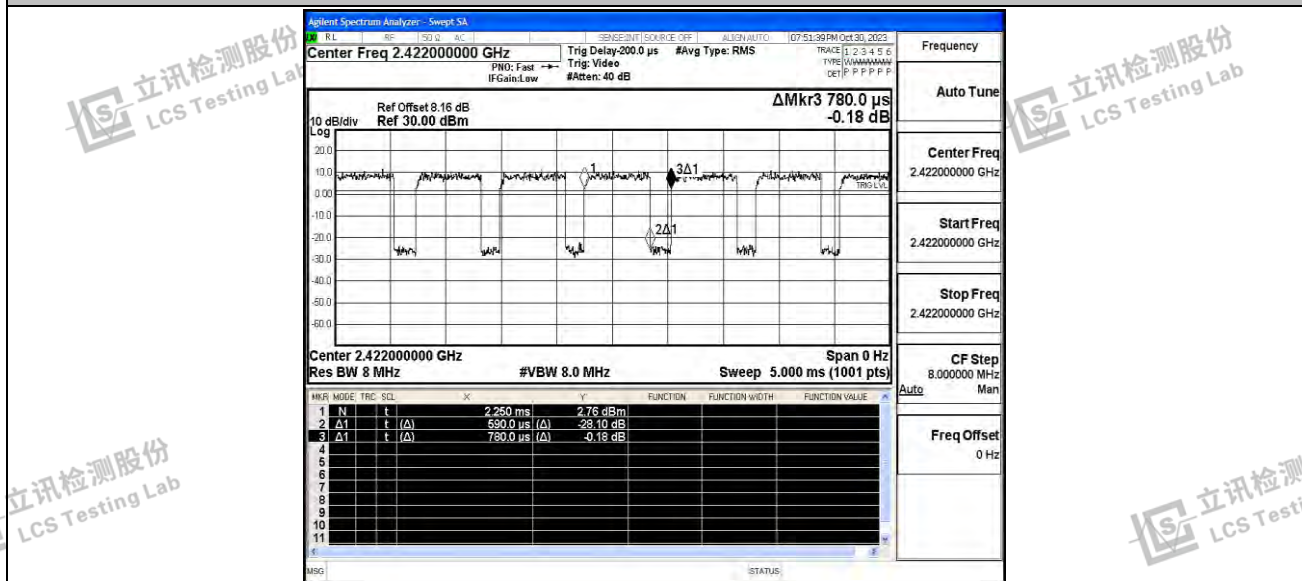
Scan code to check authenticity



11N20SISO_Ant_2462



11N40SISO_Ant_2422



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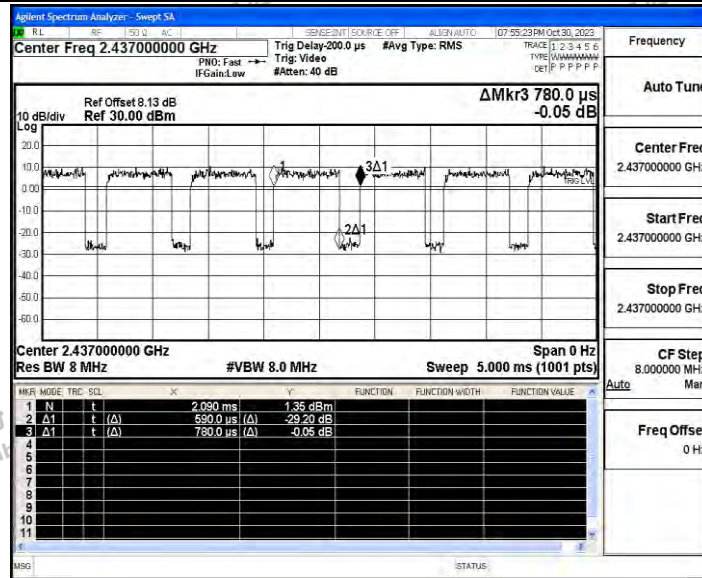
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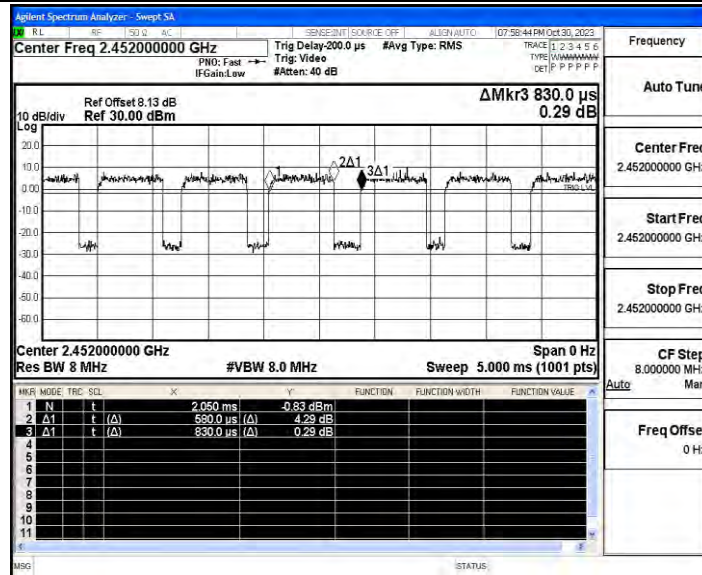
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11N40SISO_Ant_2437



11N40SISO_Ant_2452



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C.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	Channel Name	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant	Low	2412	AV	2310.000	-49.28	≤-41.20	45.92	≤54	PASS
				AV	2389.960	-48.1	≤-41.20	47.10	≤54	PASS
				AV	2390.000	-48.1	≤-41.20	47.10	≤54	PASS
				Peak	2310.000	-42.22	≤-21.20	52.98	≤74	PASS
				Peak	2388.790	-39.68	≤-21.20	55.52	≤74	PASS
				Peak	2390.000	-43	≤-21.20	52.20	≤74	PASS
		High	2462	AV	2483.500	-47.97	≤-41.20	47.23	≤54	PASS
				AV	2486.200	-47.97	≤-41.20	47.23	≤54	PASS
				AV	2500.000	-48.93	≤-41.20	46.27	≤54	PASS
				Peak	2483.500	-38.96	≤-21.20	56.24	≤74	PASS
				Peak	2484.880	-39.85	≤-21.20	55.35	≤74	PASS
				Peak	2500.000	-43.18	≤-21.20	52.02	≤74	PASS
11G	Ant	Low	2412	AV	2310.000	-48.92	≤-41.20	46.28	≤54	PASS
				AV	2389.960	-47.45	≤-41.20	47.75	≤54	PASS
				AV	2390.000	-47.45	≤-41.20	47.75	≤54	PASS
				Peak	2310.000	-43.05	≤-21.20	52.15	≤74	PASS
				Peak	2336.660	-39.48	≤-21.20	55.72	≤74	PASS
				Peak	2390.000	-41.8	≤-21.20	53.40	≤74	PASS
		High	2462	AV	2483.500	-45.67	≤-41.20	49.53	≤54	PASS
				AV	2483.560	-45.96	≤-41.20	49.24	≤54	PASS
				AV	2500.000	-48.41	≤-41.20	46.79	≤54	PASS
				Peak	2483.500	-37.61	≤-21.20	57.59	≤74	PASS
				Peak	2483.780	-31.79	≤-21.20	63.41	≤74	PASS
				Peak	2500.000	-41.38	≤-21.20	53.82	≤74	PASS
11N20SI SO	Ant	Low	2412	AV	2310.000	-48.92	≤-41.20	46.28	≤54	PASS
				AV	2389.960	-47.29	≤-41.20	47.91	≤54	PASS
				AV	2390.000	-47.29	≤-41.20	47.91	≤54	PASS
				Peak	2310.000	-42	≤-21.20	53.20	≤74	PASS
				Peak	2388.010	-37.63	≤-21.20	57.57	≤74	PASS
				Peak	2390.000	-40.82	≤-21.20	54.38	≤74	PASS
		High	2462	AV	2483.500	-45.37	≤-41.20	49.83	≤54	PASS
				AV	2483.780	-45.07	≤-41.20	50.13	≤54	PASS
				AV	2500.000	-48.45	≤-41.20	46.75	≤54	PASS
				Peak	2483.500	-39.19	≤-21.20	56.01	≤74	PASS
				Peak	2483.890	-34.66	≤-21.20	60.54	≤74	PASS
				Peak	2500.000	-42.04	≤-21.20	53.16	≤74	PASS



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11N40SI SO	Ant	Low	2422	AV	2310.000	-48.6	≤ -41.20	46.60	≤ 54	PASS
				AV	2389.830	-44.92	≤ -41.20	50.28	≤ 54	PASS
				AV	2390.000	-44.92	≤ -41.20	50.28	≤ 54	PASS
				Peak	2310.000	-43.39	≤ -21.20	51.81	≤ 74	PASS
				Peak	2388.010	-33.2	≤ -21.20	62.00	≤ 74	PASS
				Peak	2390.000	-38	≤ -21.20	57.20	≤ 74	PASS
		High	2452	AV	2483.500	-42.38	≤ -41.20	52.82	≤ 54	PASS
				AV	2484.330	-42.23	≤ -41.20	52.97	≤ 54	PASS
				AV	2500.000	-48.24	≤ -41.20	46.96	≤ 54	PASS
				Peak	2483.500	-25.28	≤ -21.20	69.92	≤ 74	PASS
				Peak	2483.560	-28.03	≤ -21.20	67.17	≤ 74	PASS
				Peak	2500.000	-43.43	≤ -21.20	51.77	≤ 74	PASS

Note:

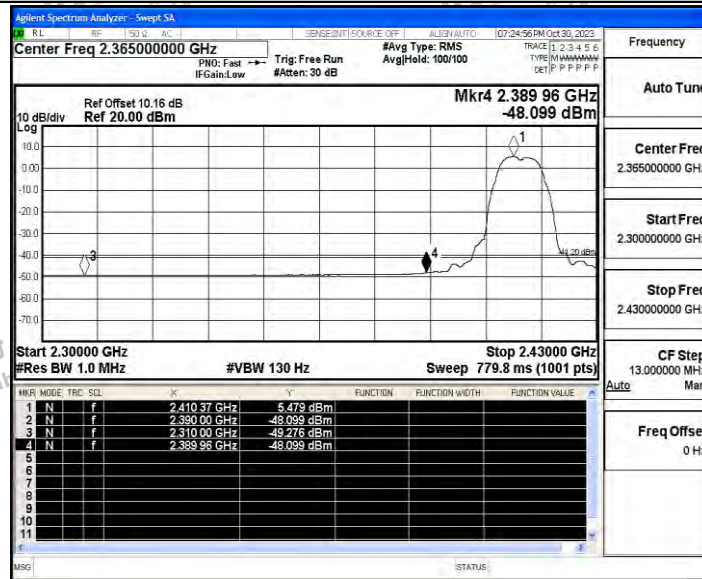
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



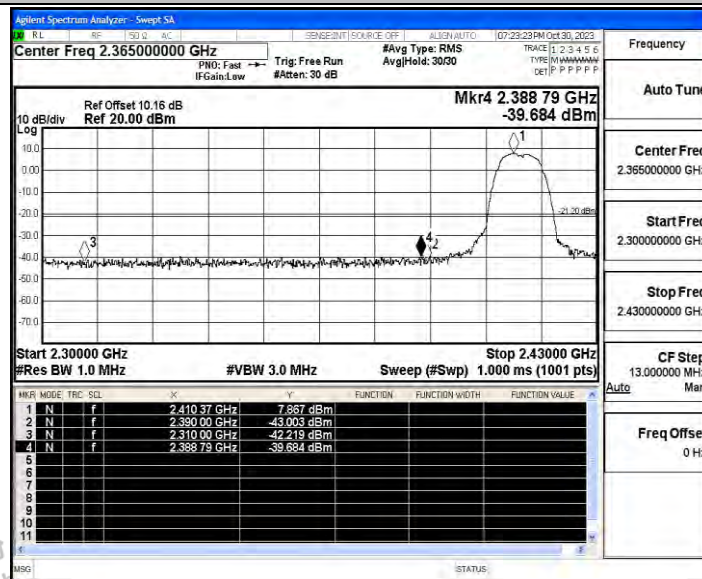


Test Graphs

11B_Ant_Low_2412_AV



11B_Ant_Low_2412_Peak



11B_Ant_High_2462_AV

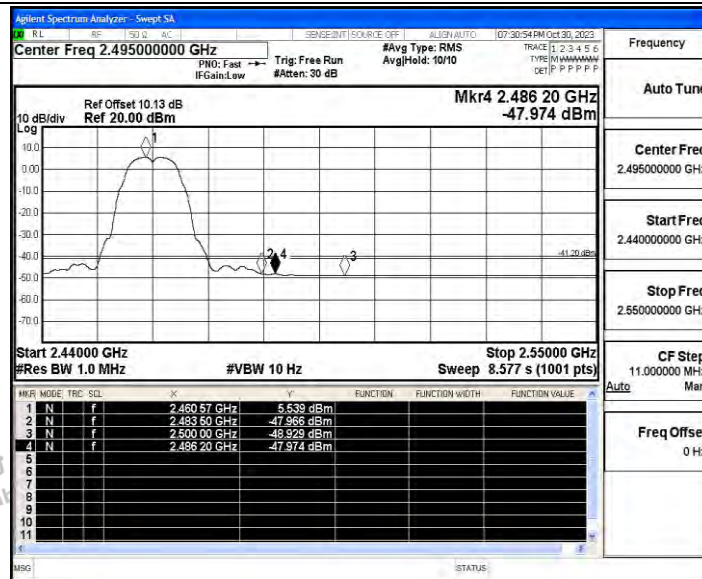


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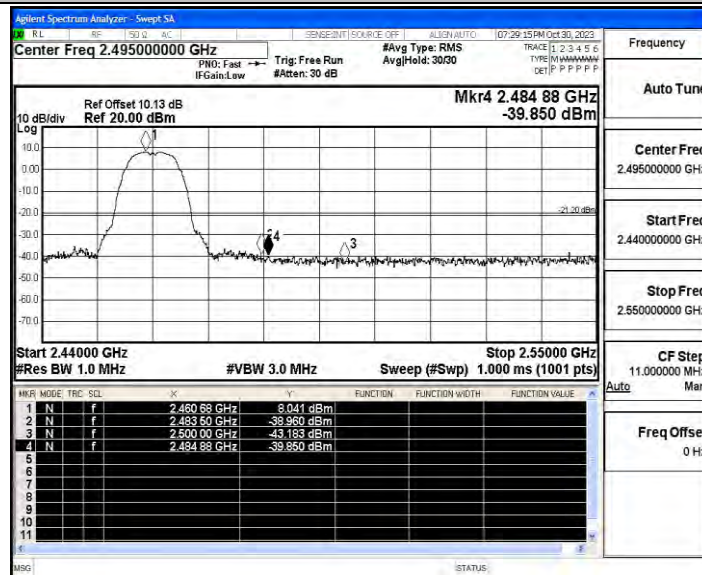
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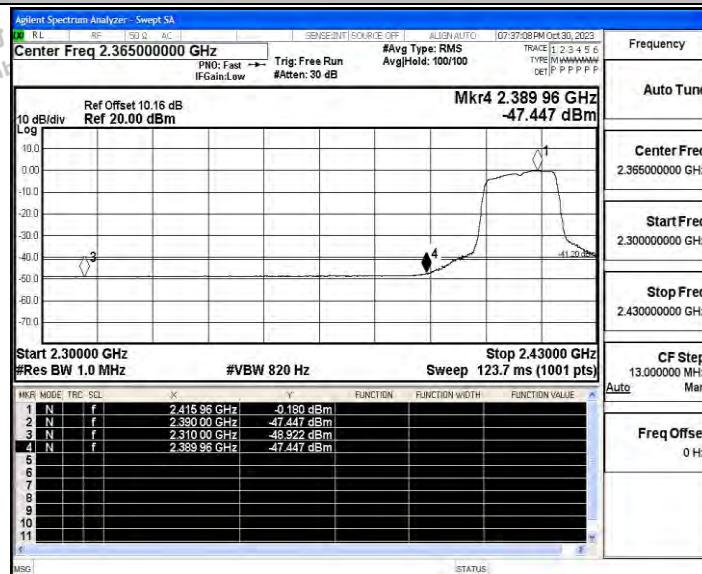
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11B_Ant_High_2462_Peak



11G_Ant_Low_2412_AV



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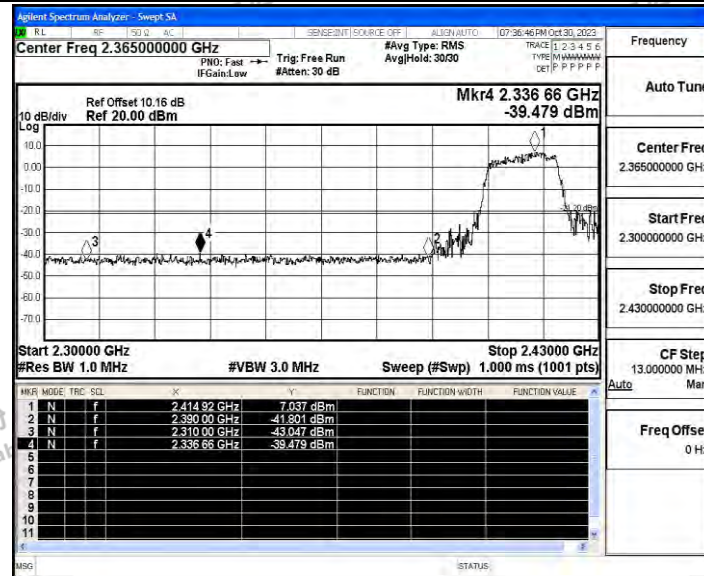
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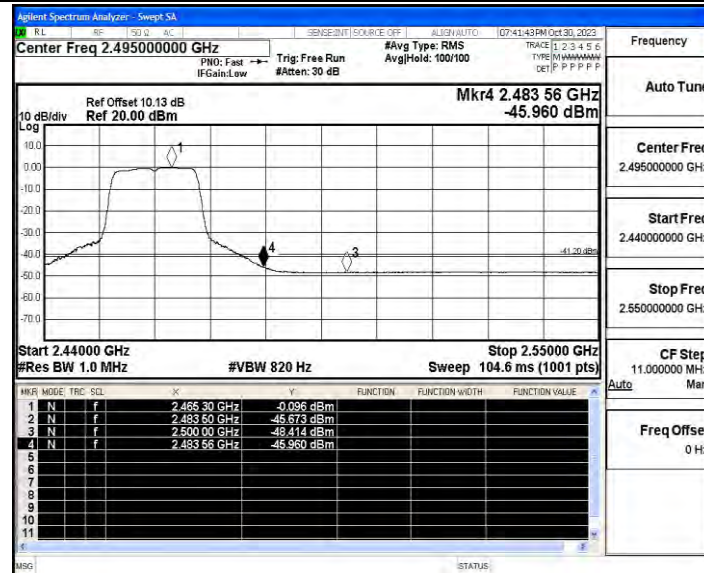
Scan code to check authenticity



11G_Ant_Low_2412_Peak



11G_Ant_High_2462_AV



11G_Ant_High_2462_Peak

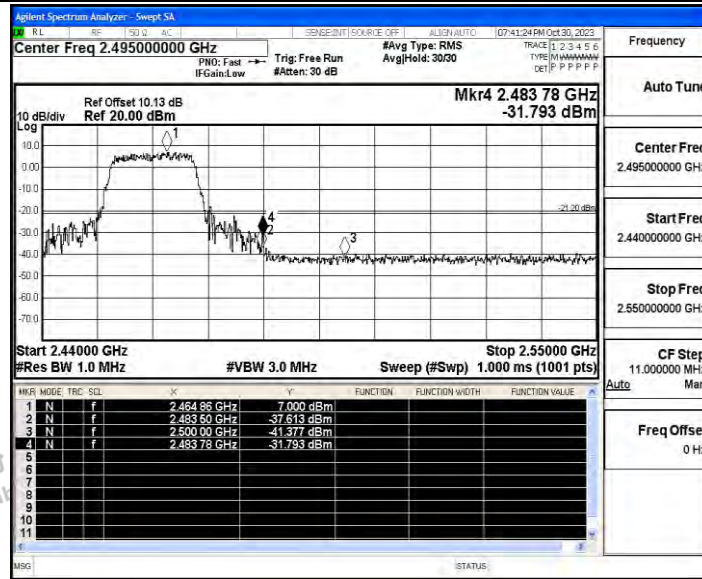


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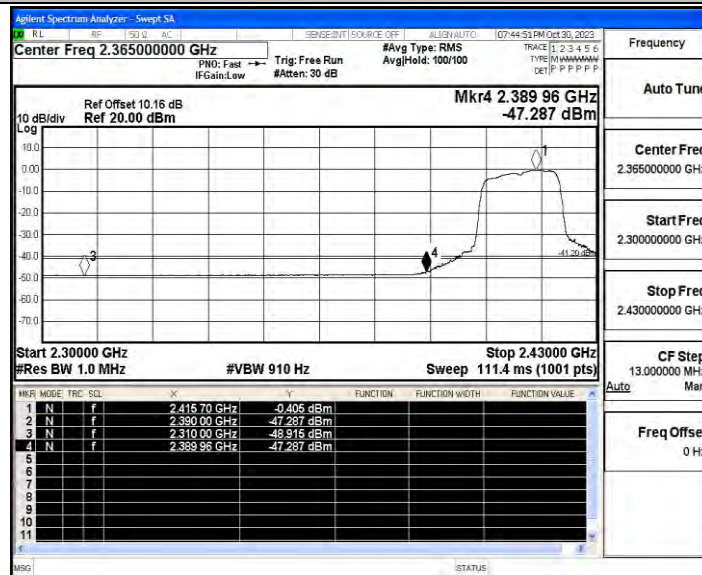
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11N20SISO_Ant_Low_2412_AV



11N20SISO_Ant_Low_2412_Peak



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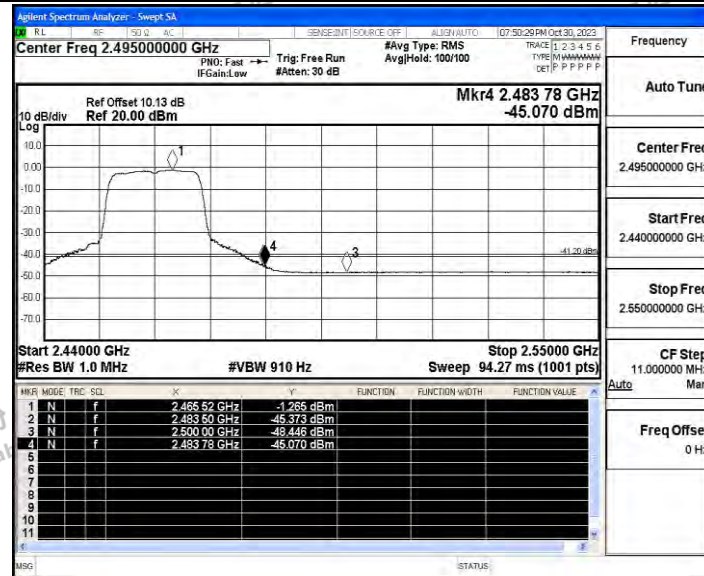
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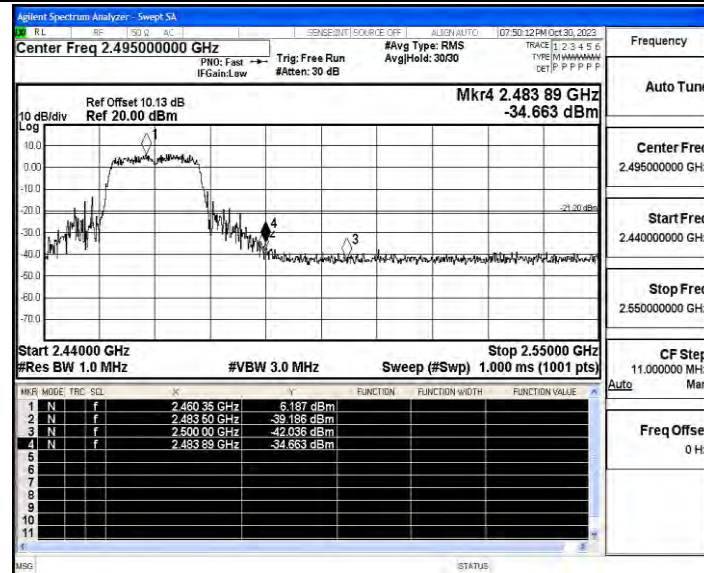
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11N20SISO_Ant_High_2462_AV



11N20SISO_Ant_High_2462_Peak



11N40SISO_Ant_Low_2422_AV

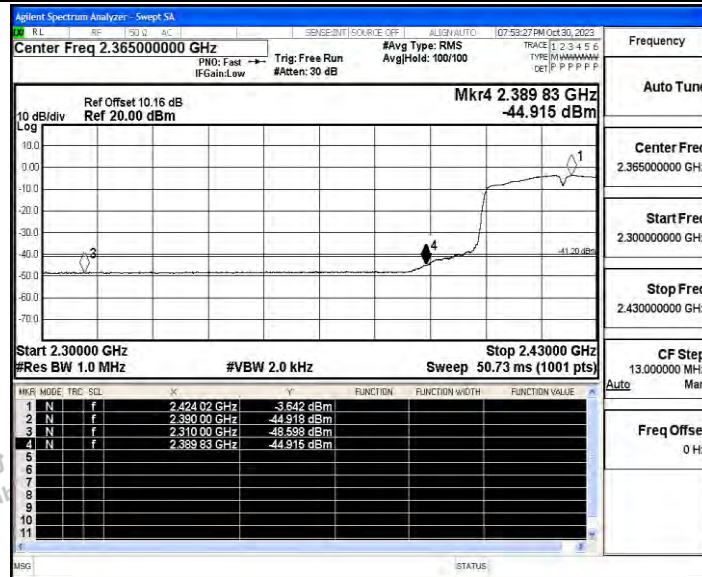


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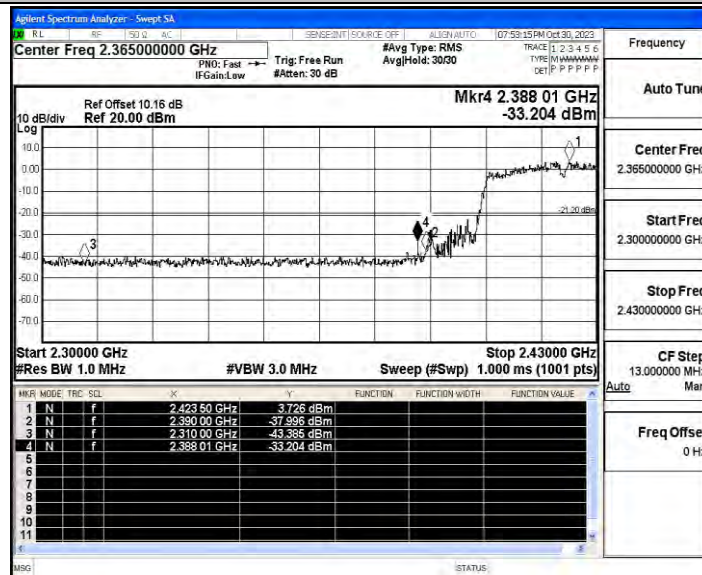
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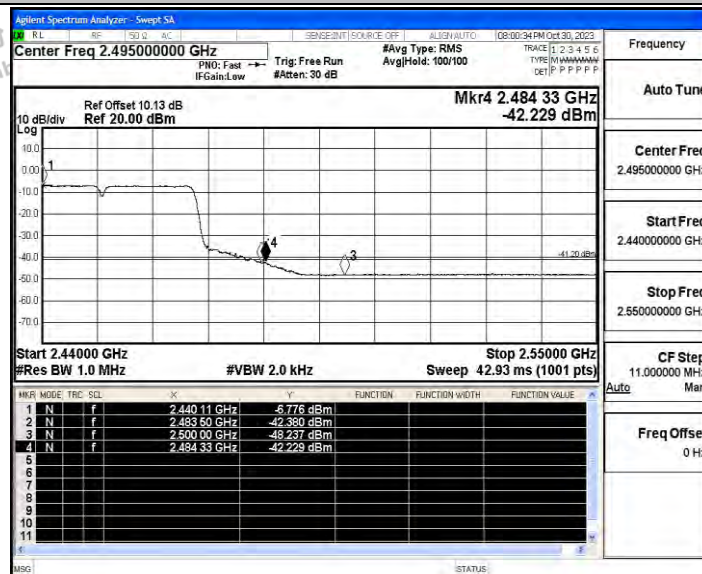
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11N40SISO_Ant_Low_2422_Peak



11N40SISO_Ant_High_2452_AV



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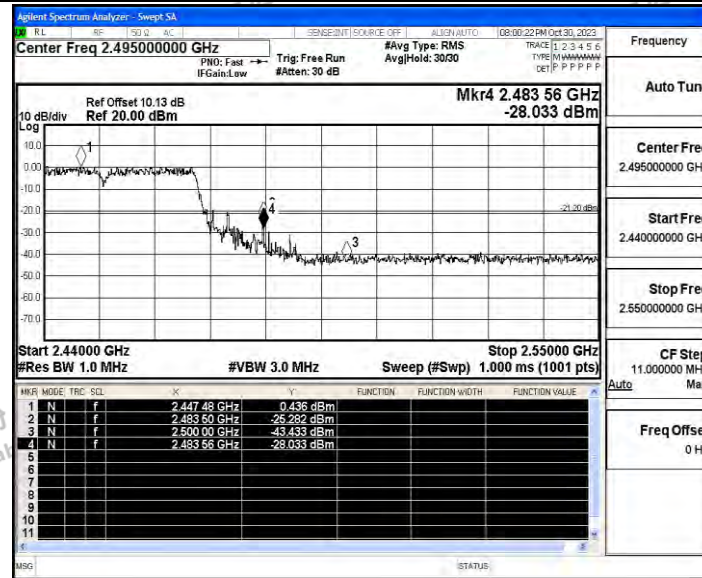
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11N40SISO_Ant_High_2452_Peak



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