



Appendix A

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Indoor Security Camera

Test Model: QC21SE

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Bill Zhu
Supervised by:	Li huan





A.1 DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant	2412	10.040	2407.000	2417.040	0.5	PASS
		2437	9.520	2432.480	2442.000	0.5	PASS
		2462	9.560	2456.960	2466.520	0.5	PASS
11G	Ant	2412	15.440	2404.440	2419.880	0.5	PASS
		2437	15.440	2429.440	2444.880	0.5	PASS
		2462	15.720	2453.840	2469.560	0.5	PASS
11N20SISO	Ant	2412	16.080	2404.440	2420.520	0.5	PASS
		2437	15.960	2429.440	2445.400	0.5	PASS
		2462	16.080	2453.480	2469.560	0.5	PASS
11N40SISO	Ant	2422	35.840	2404.080	2439.920	0.5	PASS
		2437	36.000	2419.080	2455.080	0.5	PASS
		2452	36.080	2434.080	2470.160	0.5	PASS



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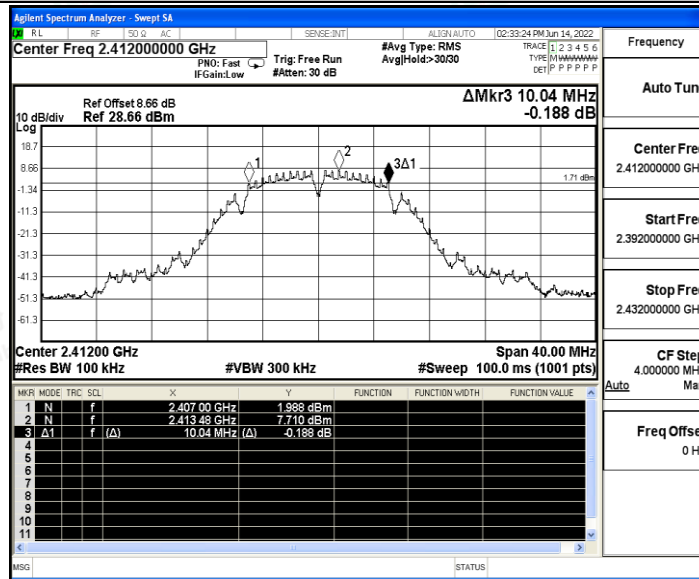
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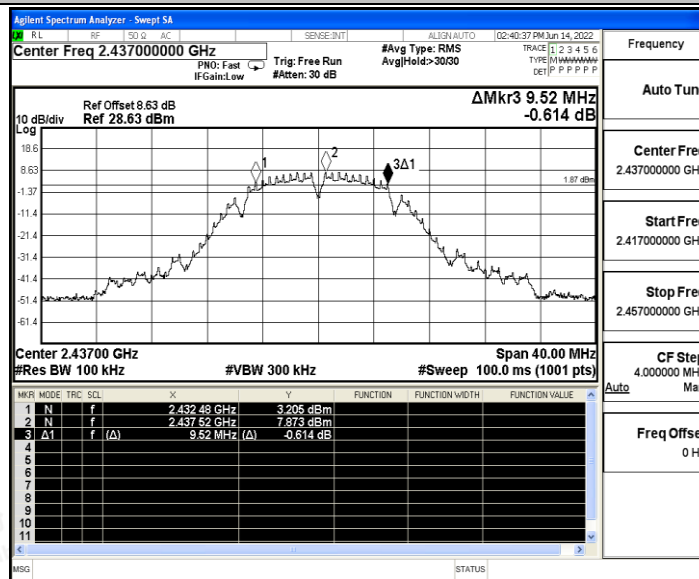


Test Graphs

11B_Ant_2412



11B_Ant_2437



11B_Ant_2462

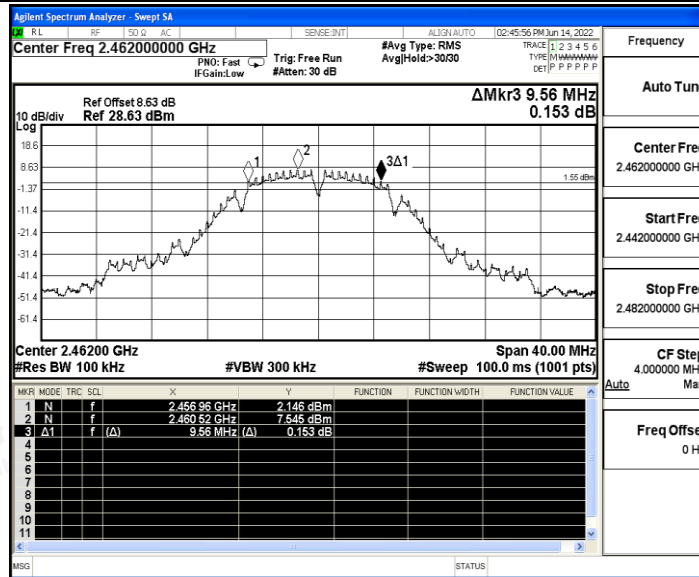


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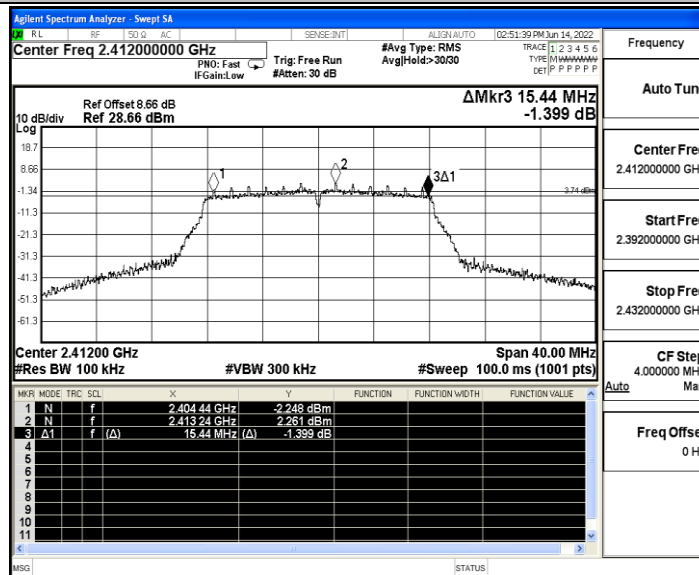
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11G_Ant_2412



11G_Ant_2437

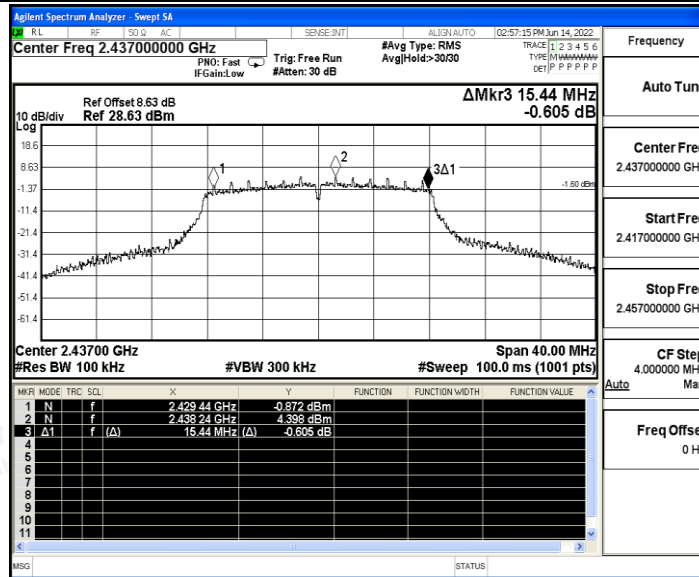


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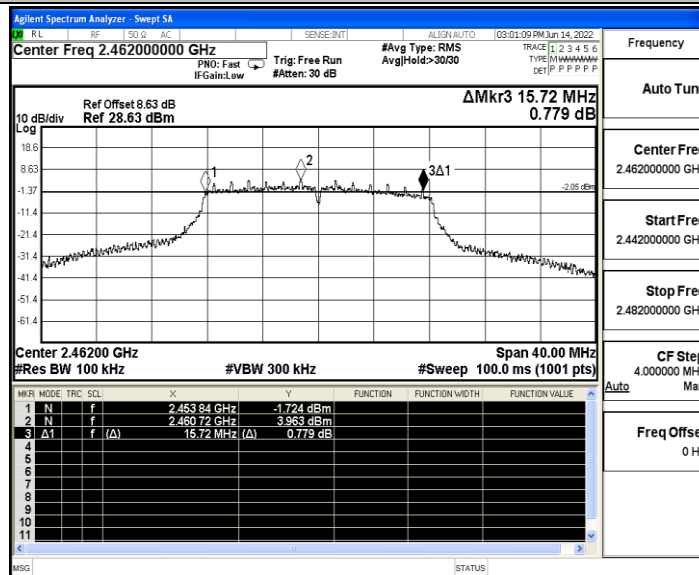
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11G_Ant_2462



11N20SISO_Ant_2412

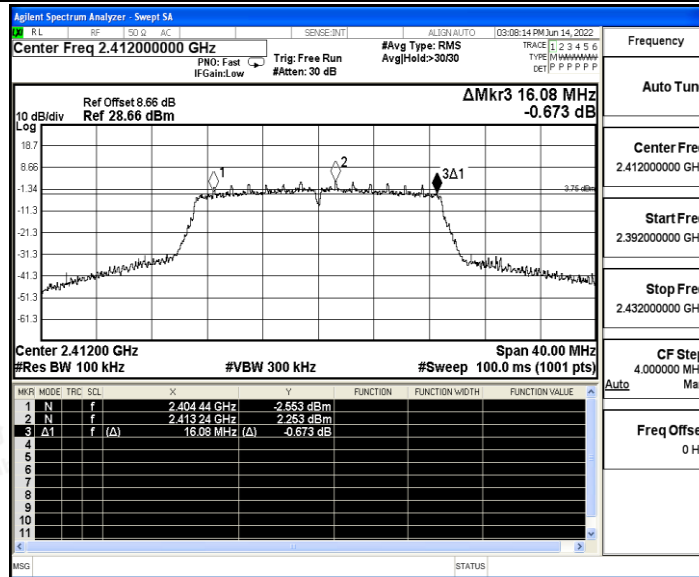


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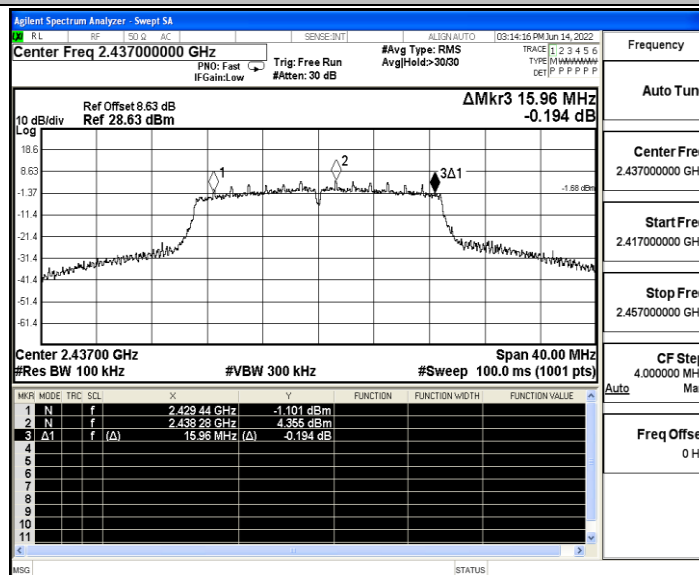
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11N20SISO_Ant_2437



11N20SISO_Ant_2462

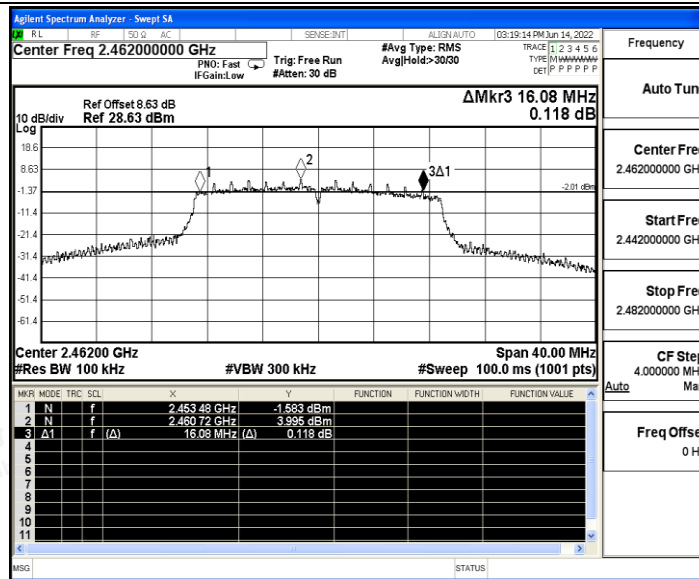


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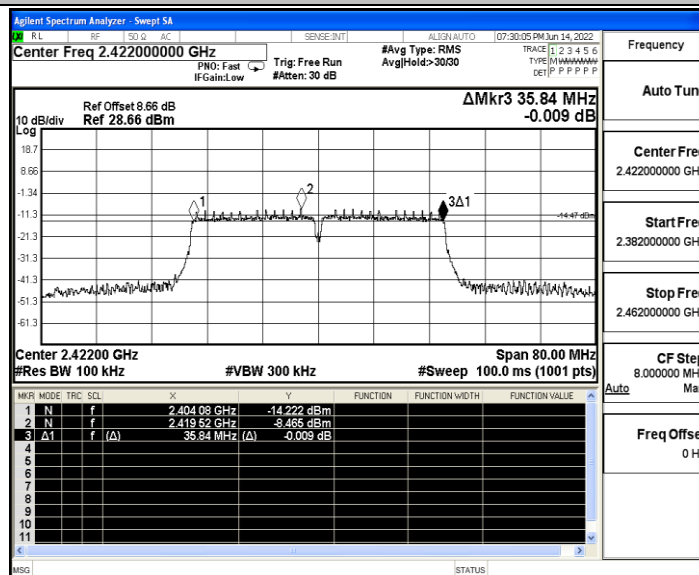
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11N40SISO_Ant_2422



11N40SISO_Ant_2437

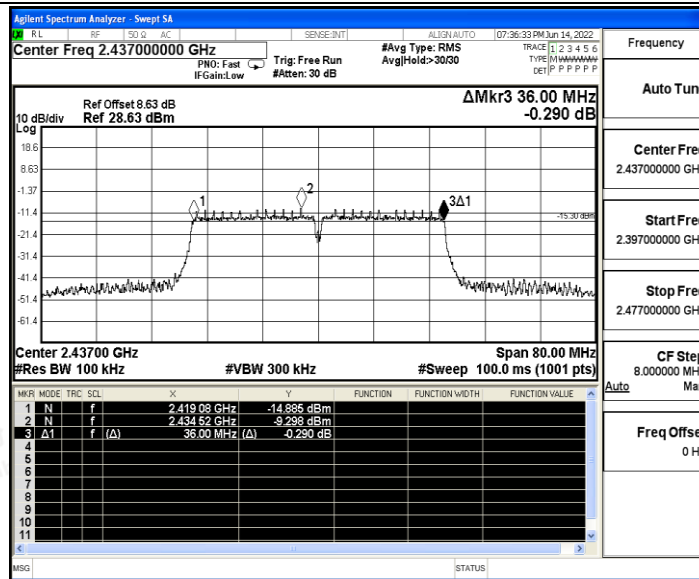


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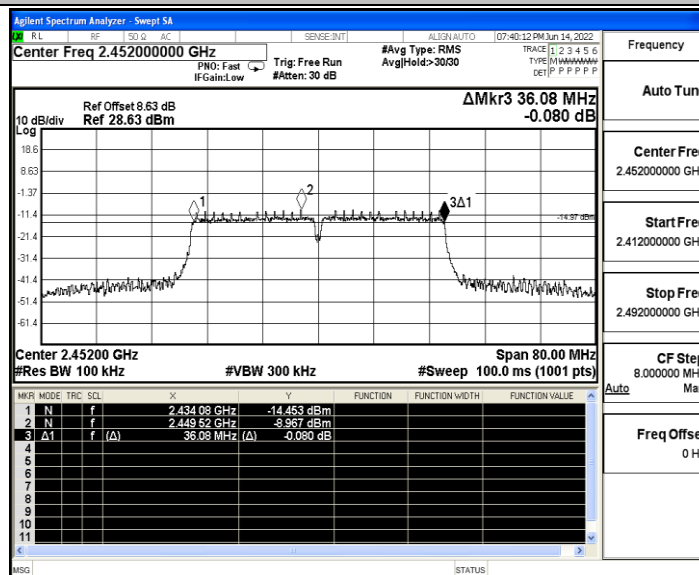
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11N40SISO_Ant_2452



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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	2412	15.89	≤30.00	PASS
		2437	15.53	≤30.00	PASS
		2462	15.08	≤30.00	PASS
11G	Ant	2412	14.29	≤30.00	PASS
		2437	14.28	≤30.00	PASS
		2462	13.87	≤30.00	PASS
11N20SISO	Ant	2412	14.80	≤30.00	PASS
		2437	13.40	≤30.00	PASS
		2462	12.98	≤30.00	PASS
11N40SISO	Ant	2422	13.78	≤30.00	PASS
		2437	13.54	≤30.00	PASS
		2452	12.77	≤30.00	PASS



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A.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant	2412	-4.03	≤8.00	PASS
		2437	-6.57	≤8.00	PASS
		2462	6.53	≤8.00	PASS
11G	Ant	2412	-12.76	≤8.00	PASS
		2437	-8.63	≤8.00	PASS
		2462	-11.31	≤8.00	PASS
11N20SISO	Ant	2412	-12.89	≤8.00	PASS
		2437	-10	≤8.00	PASS
		2462	-11.19	≤8.00	PASS
11N40SISO	Ant	2422	-22.41	≤8.00	PASS
		2437	-24.06	≤8.00	PASS
		2452	-22.97	≤8.00	PASS



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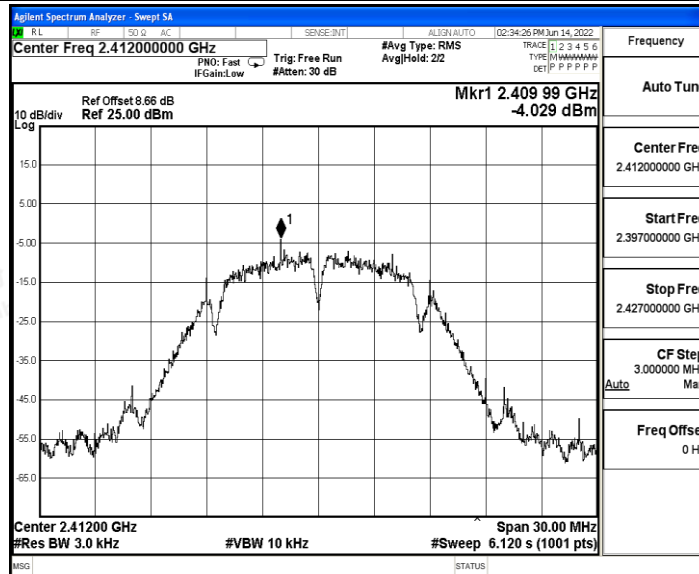
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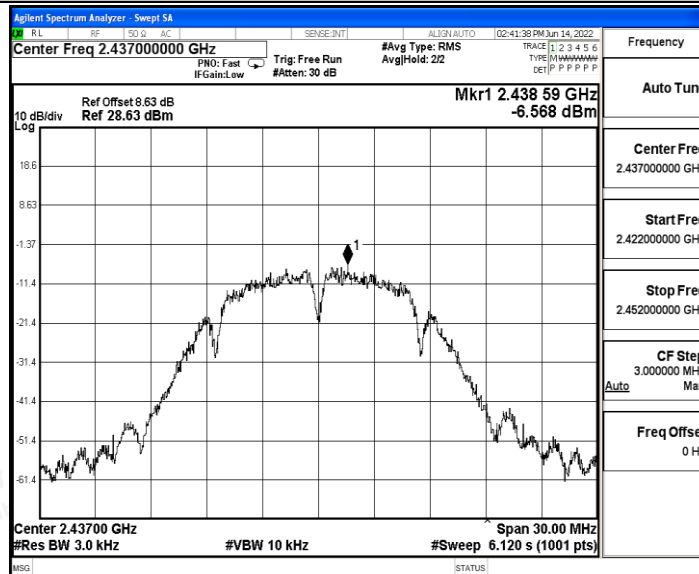


Test Graphs

11B_Ant_2412



11B_Ant_2437



11B_Ant_2462

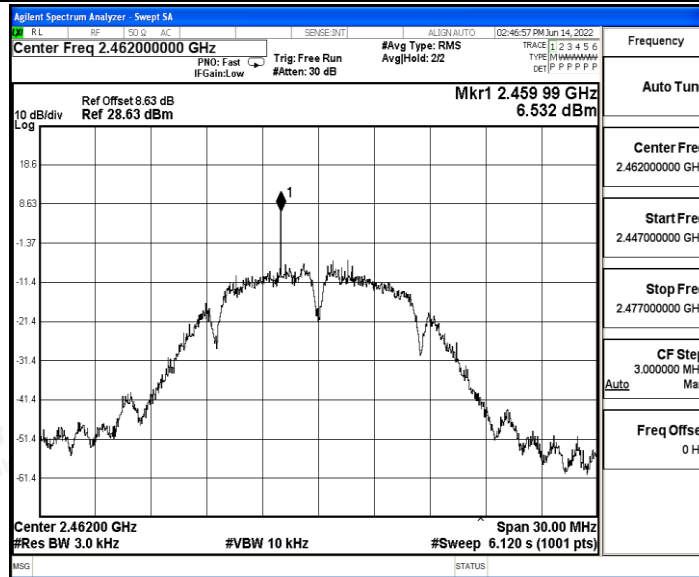


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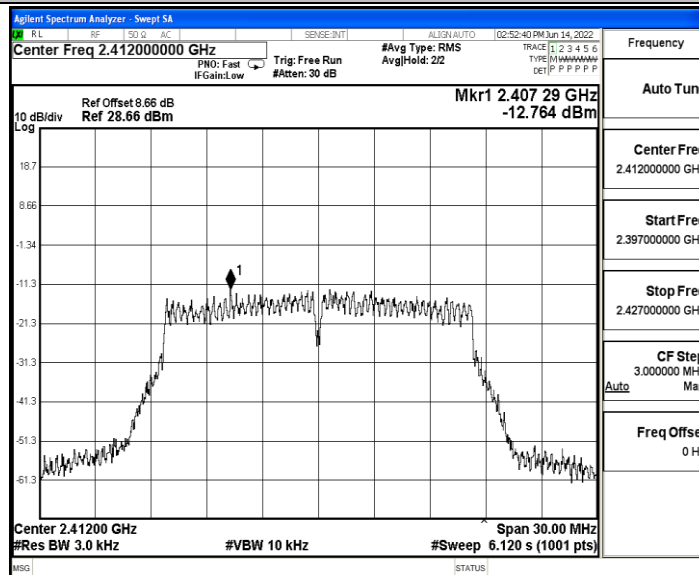
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11G_Ant_2412



11G_Ant_2437

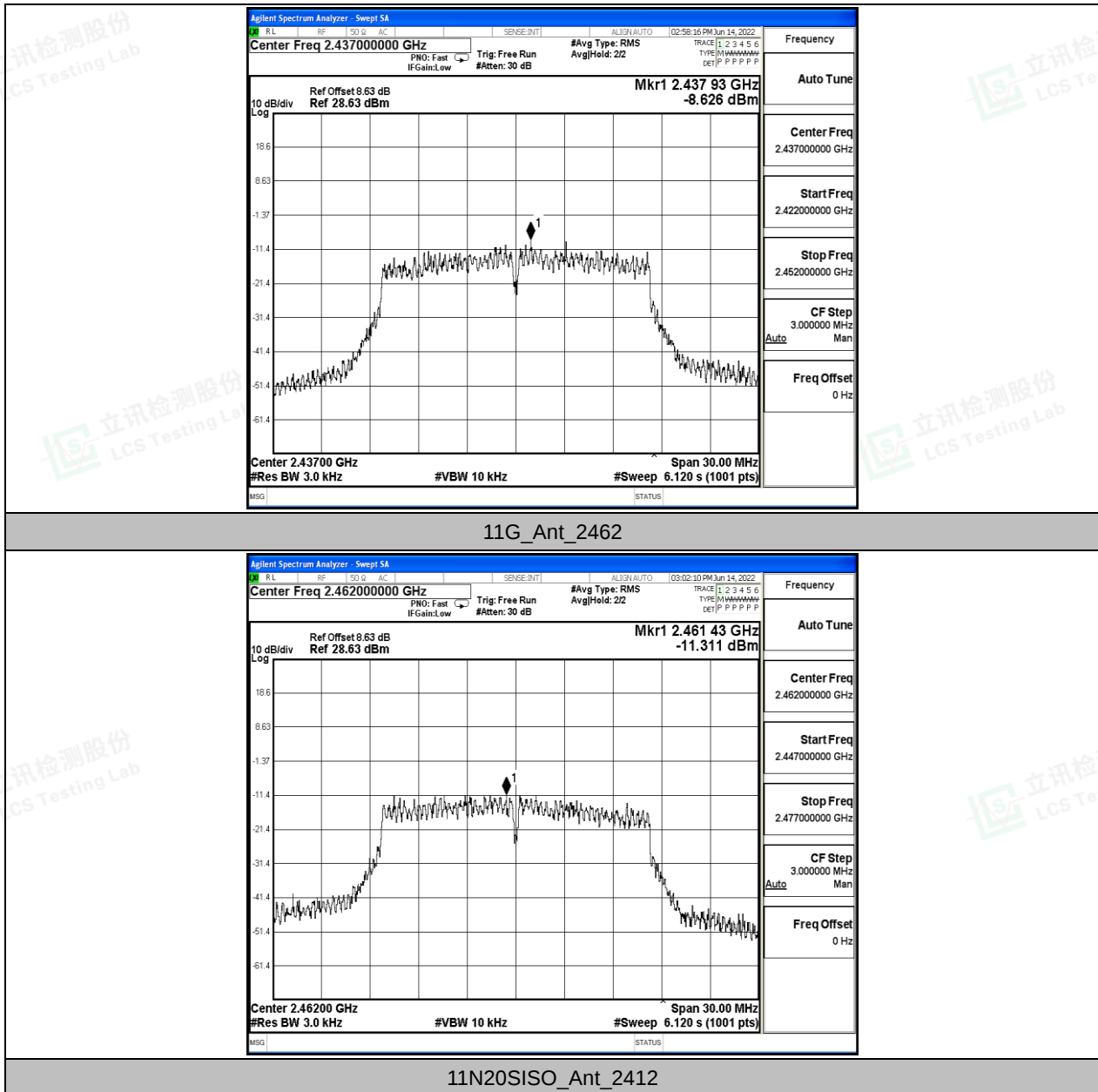


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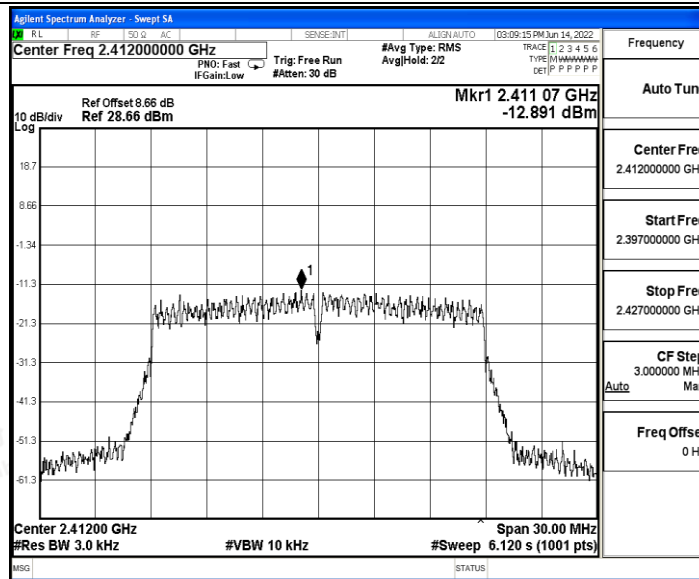


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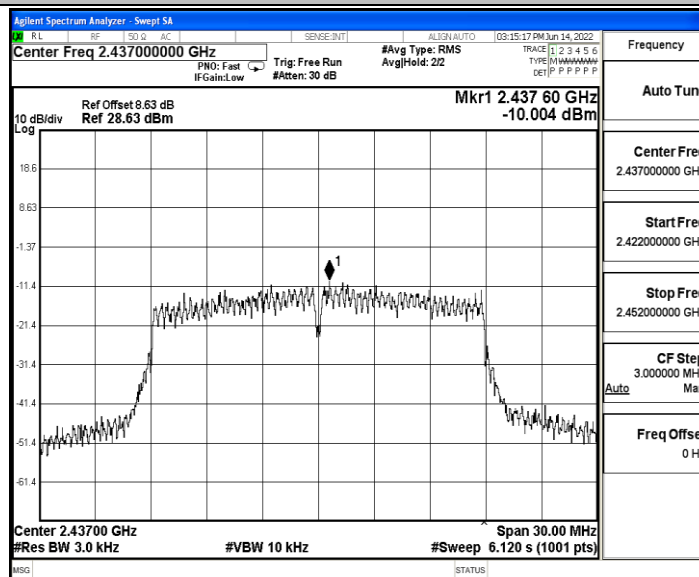
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11N20SISO_Ant_2437



11N20SISO_Ant_2462

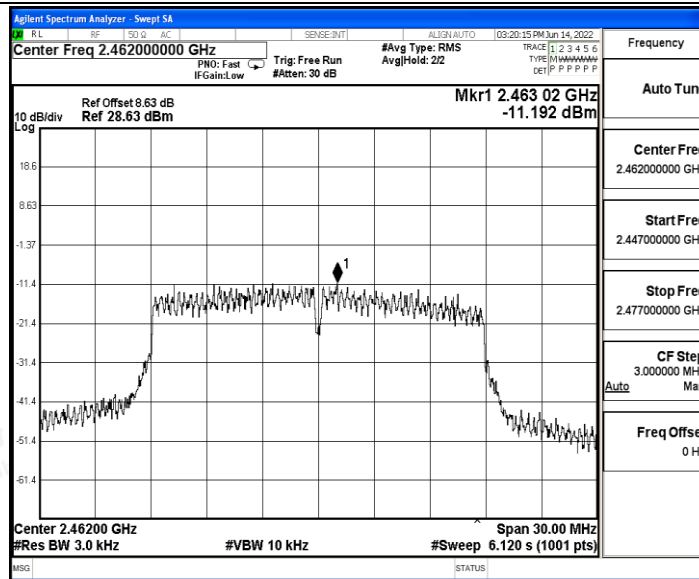


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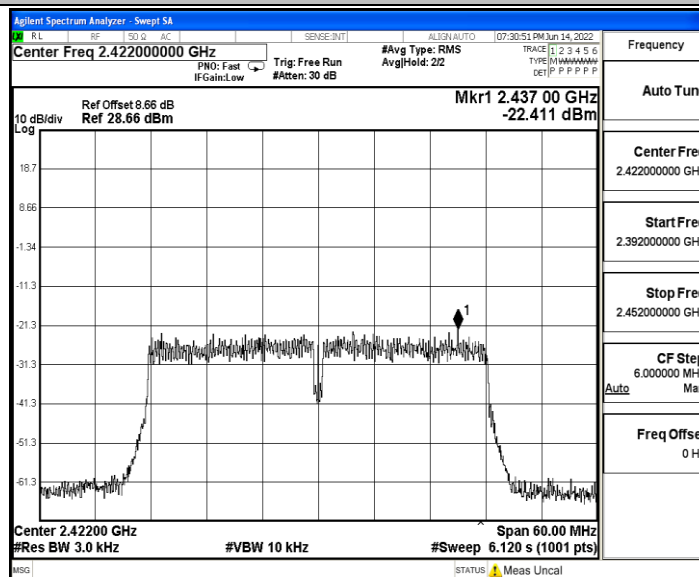
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11N40SISO_Ant_2422



11N40SISO_Ant_2437

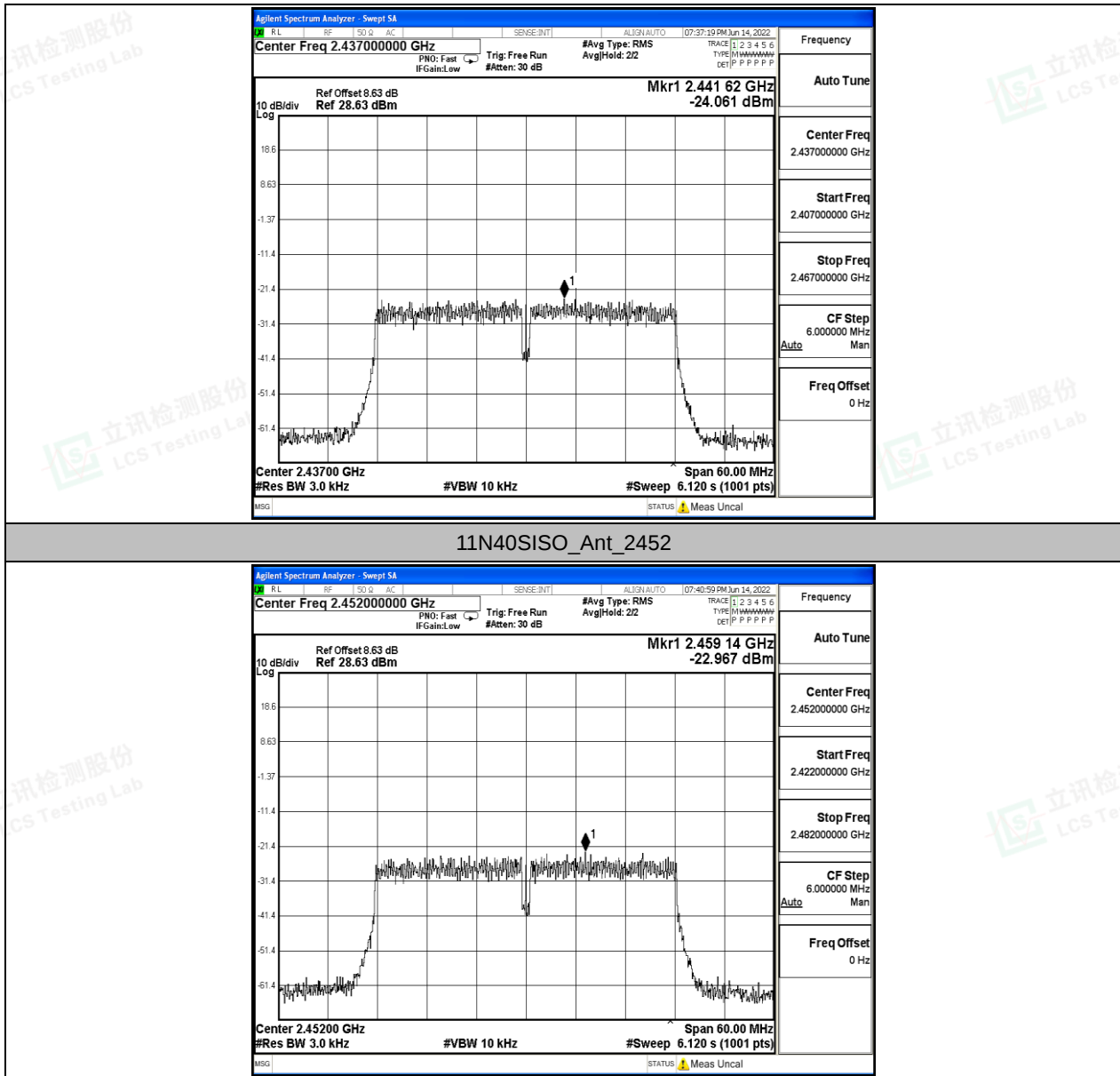


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A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	Low	2412	8.00	-38.13	≤ -12	PASS
		High	2462	7.75	-45.3	≤ -12.25	PASS
11G	Ant	Low	2412	2.75	-35.37	≤ -17.25	PASS
		High	2462	4.02	-40.84	≤ -15.98	PASS
11N20SISO	Ant	Low	2412	2.87	-34.37	≤ -17.13	PASS
		High	2462	4.03	-40	≤ -15.97	PASS
11N40SISO	Ant	Low	2422	-8.31	-41.96	≤ -28.31	PASS
		High	2452	-8.87	-41.52	≤ -28.87	PASS



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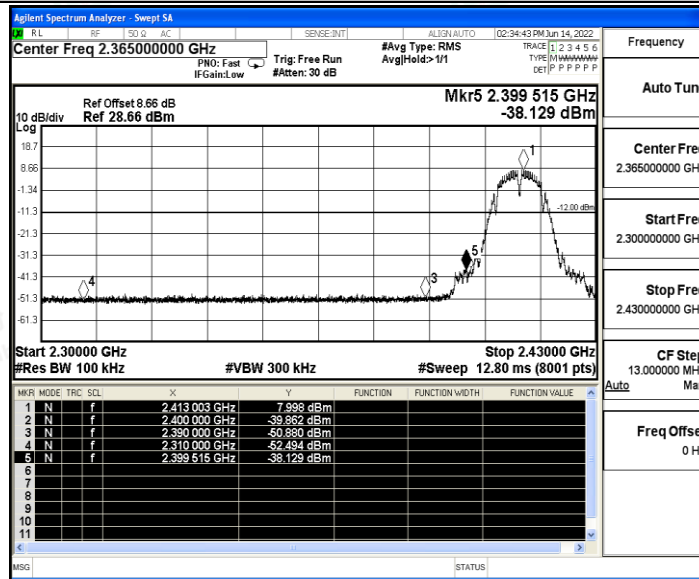
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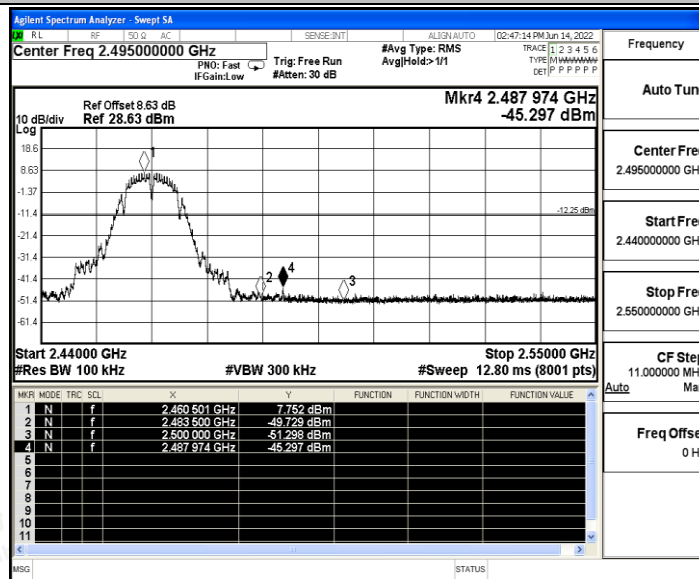


Test Graphs

11B_Ant_Low_2412



11B_Ant_High_2462



11G_Ant_Low_2412

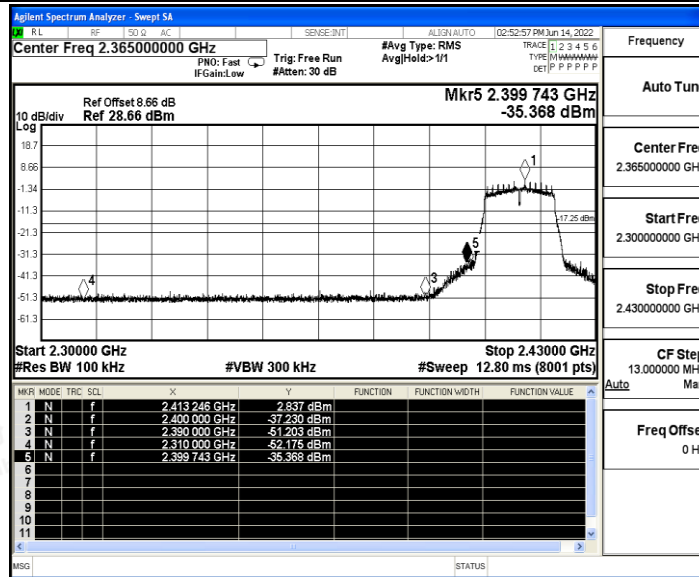


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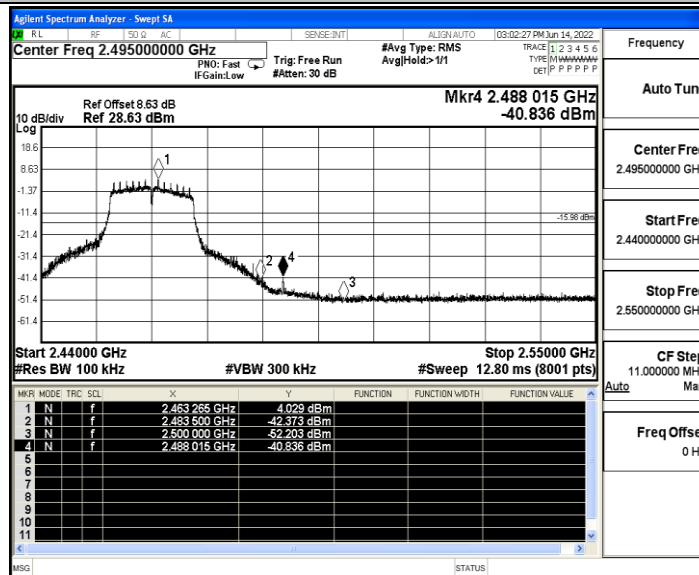
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11G_Ant_High_2462



11N20SISO_Ant_Low_2412

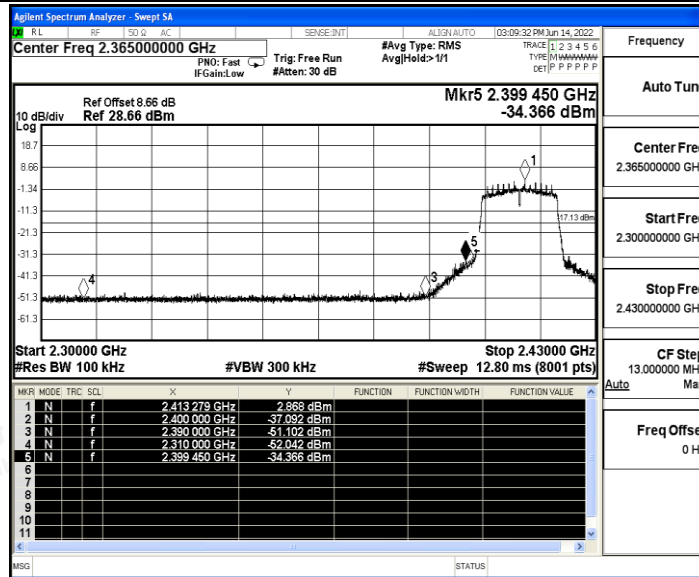


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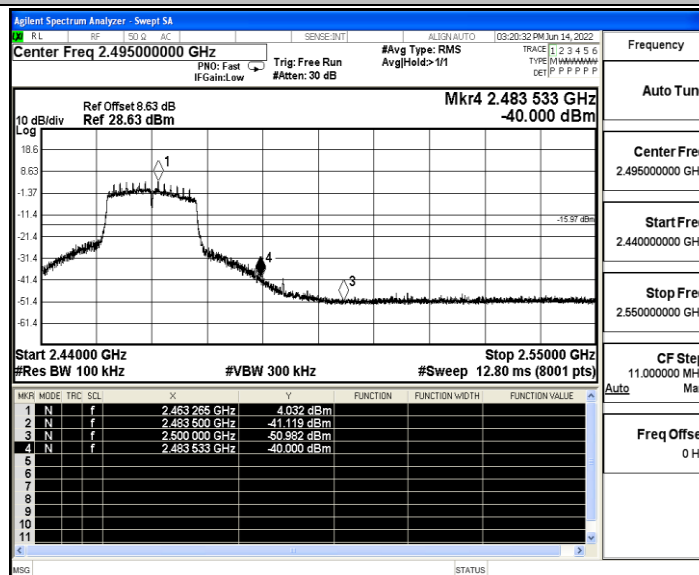
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11N20SISO_Ant_High_2462



11N40SISO_Ant_Low_2422

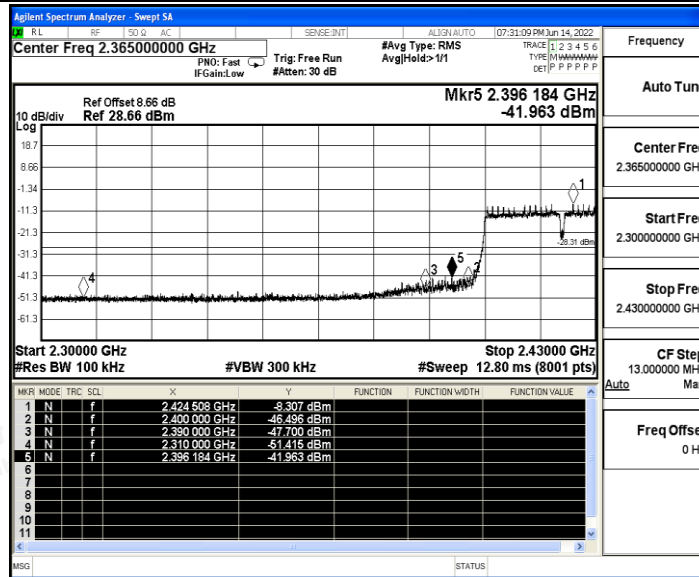


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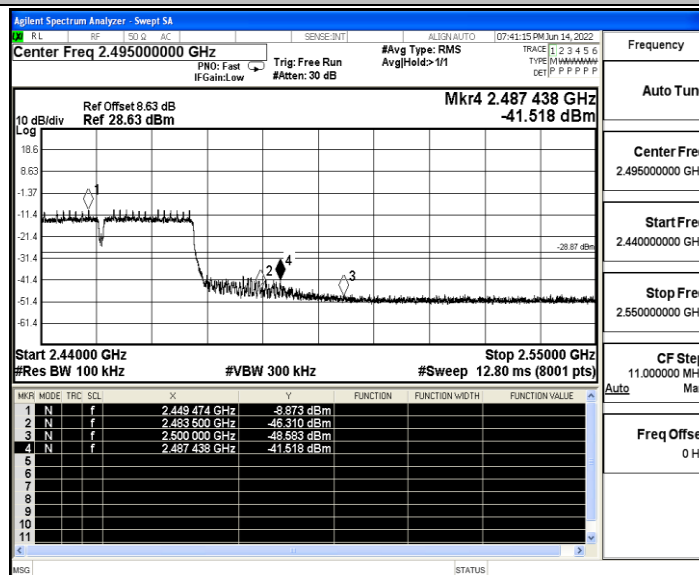
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11N40SISO_Ant_High_2452



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A.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant	2412	Reference	7.93	7.93	---	PASS
			30~1000	7.93	-54.49	≤ -12.07	PASS
			1000~26500	7.93	-46.04	≤ -12.07	PASS
		2437	Reference	8.11	8.11	---	PASS
			30~1000	8.11	-60.15	≤ -11.89	PASS
			1000~26500	8.11	-46	≤ -11.89	PASS
		2462	Reference	7.58	7.58	---	PASS
			30~1000	7.58	-60.41	≤ -12.42	PASS
			1000~26500	7.58	-45.55	≤ -12.42	PASS
11G	Ant	2412	Reference	2.94	2.94	---	PASS
			30~1000	2.94	-59.16	≤ -17.06	PASS
			1000~26500	2.94	-46.21	≤ -17.06	PASS
		2437	Reference	4.82	4.82	---	PASS
			30~1000	4.82	-59.78	≤ -15.18	PASS
			1000~26500	4.82	-46.45	≤ -15.18	PASS
		2462	Reference	3.93	3.93	---	PASS
			30~1000	3.93	-55.9	≤ -16.07	PASS
			1000~26500	3.93	-45.93	≤ -16.07	PASS
11N20SISO	Ant	2412	Reference	2.92	2.92	---	PASS
			30~1000	2.92	-56.54	≤ -17.08	PASS
			1000~26500	2.92	-46.01	≤ -17.08	PASS
		2437	Reference	4.95	4.95	---	PASS
			30~1000	4.95	-56.44	≤ -15.05	PASS
			1000~26500	4.95	-46.08	≤ -15.05	PASS
		2462	Reference	3.97	3.97	---	PASS
			30~1000	3.97	-57.6	≤ -16.03	PASS
			1000~26500	3.97	-46.47	≤ -16.03	PASS
11N40SISO	Ant	2422	Reference	-8.33	-8.33	---	PASS
			30~1000	-8.33	-50.31	≤ -28.33	PASS
			1000~26500	-8.33	-45.88	≤ -28.33	PASS
		2437	Reference	-9.27	-9.27	---	PASS
			30~1000	-9.27	-48.99	≤ -29.27	PASS
			1000~26500	-9.27	-45.79	≤ -29.27	PASS
		2452	Reference	-8.78	-8.78	---	PASS
			30~1000	-8.78	-50.47	≤ -28.78	PASS
			1000~26500	-8.78	-45.96	≤ -28.78	PASS



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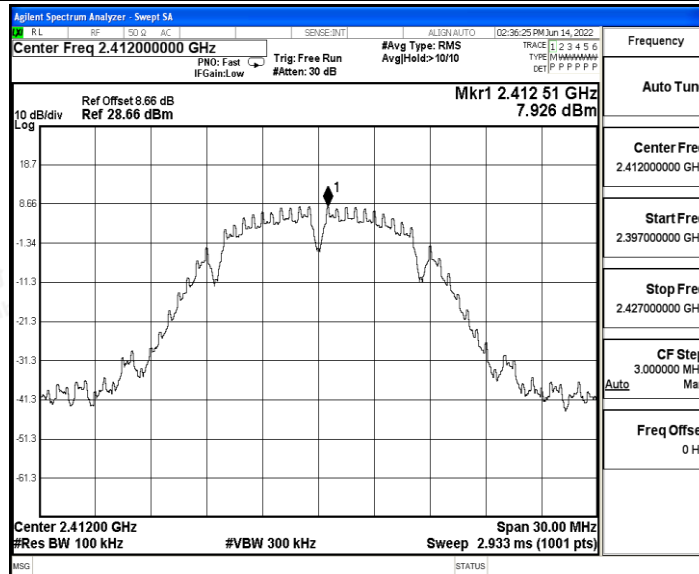
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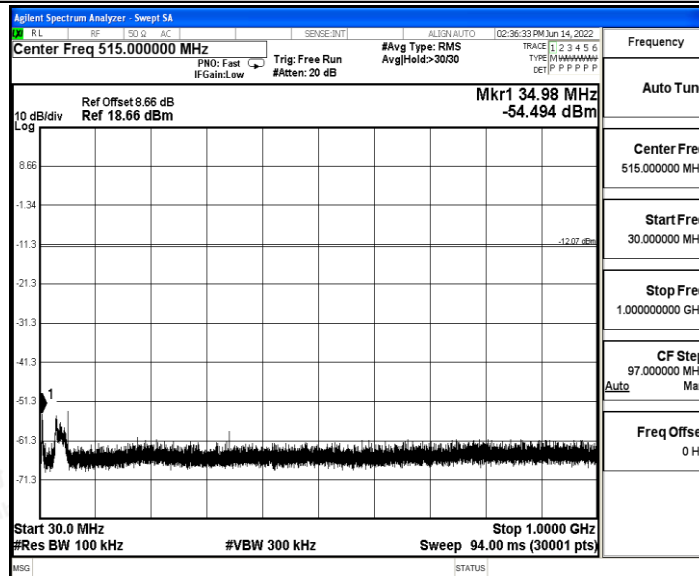


Test Graphs

11B_Ant_2412_0-Reference



11B_Ant_2412_30-1000



11B_Ant_2412_1000-26500

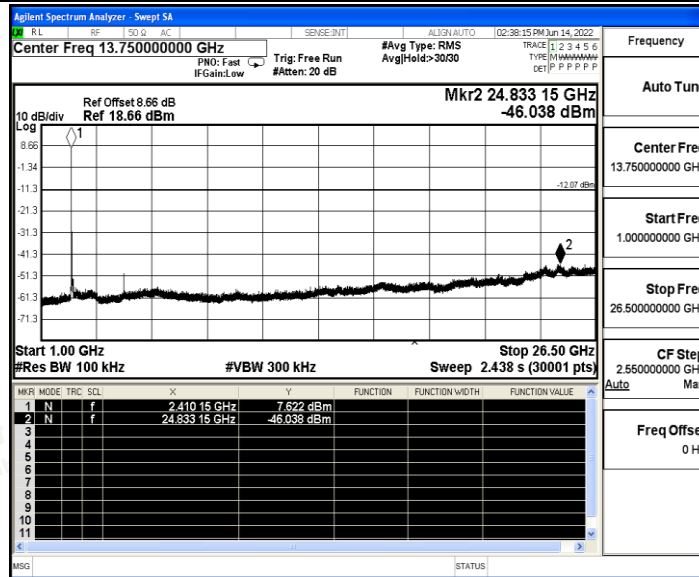


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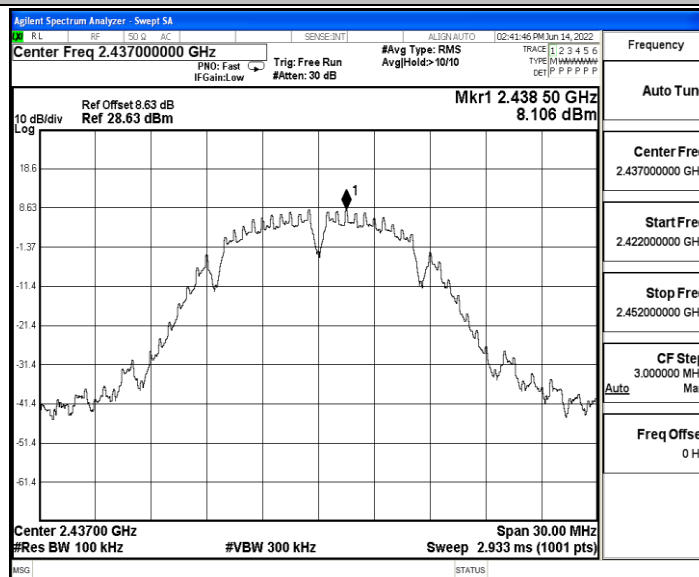
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11B_Ant_2437_0~Reference



11B_Ant_2437_30~1000

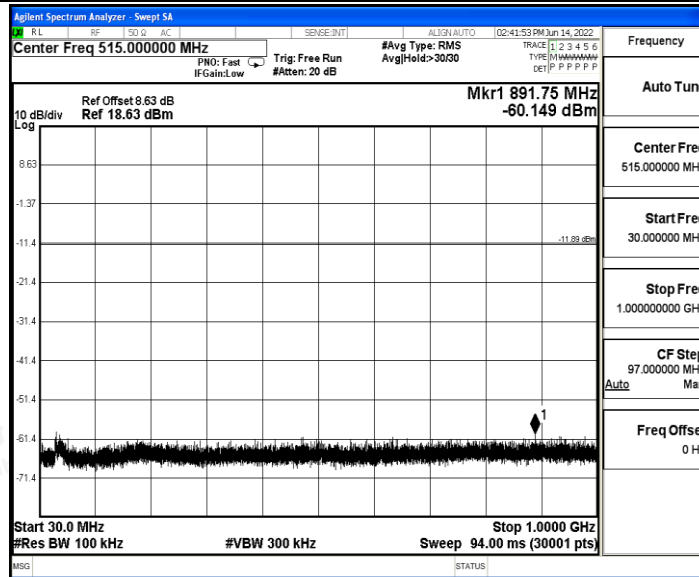


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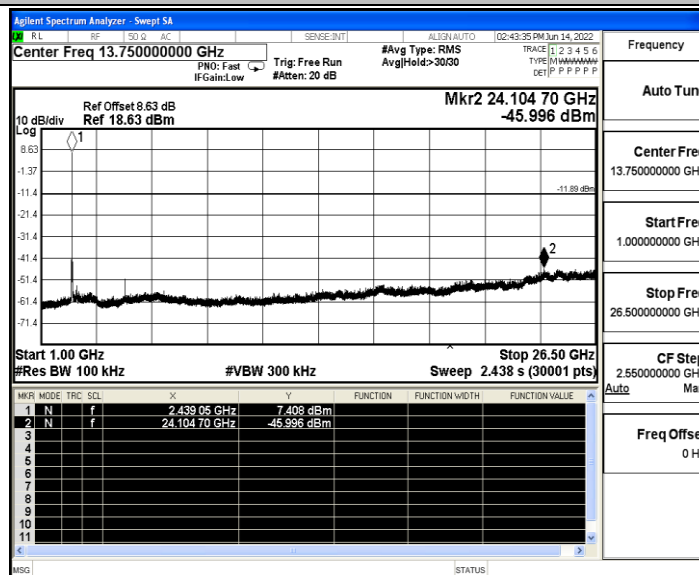
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11B_Ant_2437_1000~26500



11B_Ant_2462_0-Reference

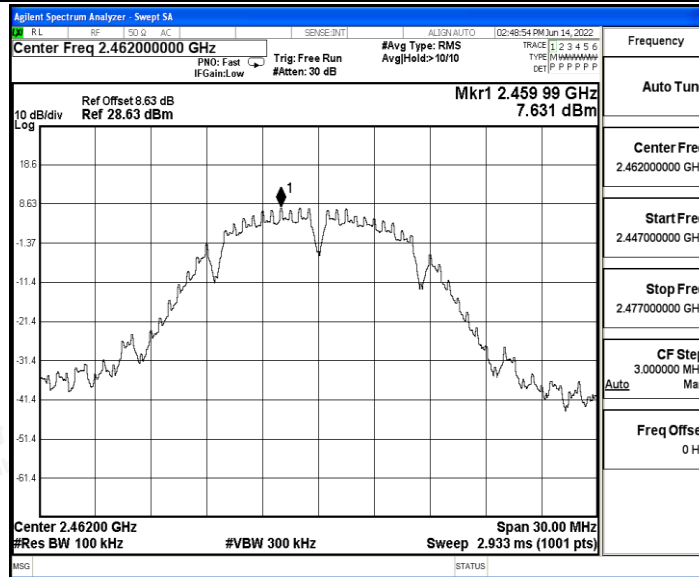


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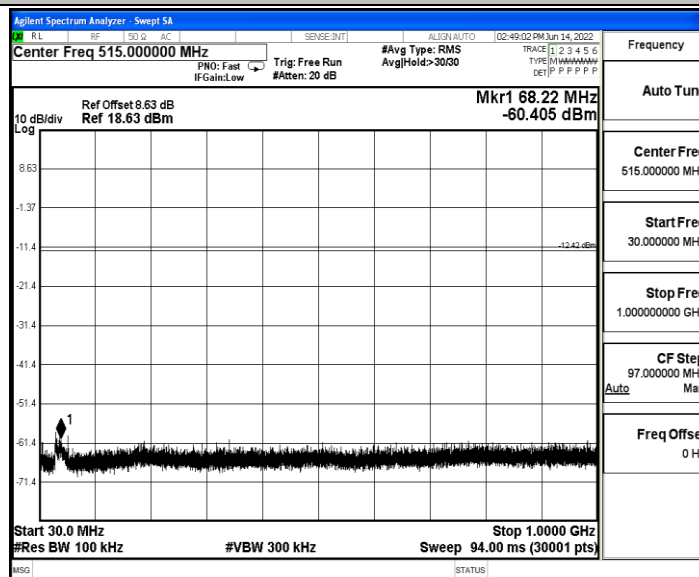
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11B_Ant_2462_30~1000



11B_Ant_2462_1000~26500

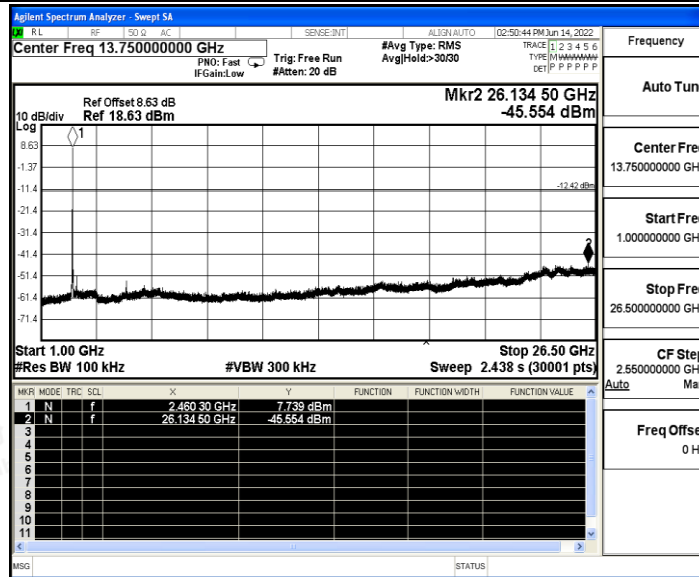


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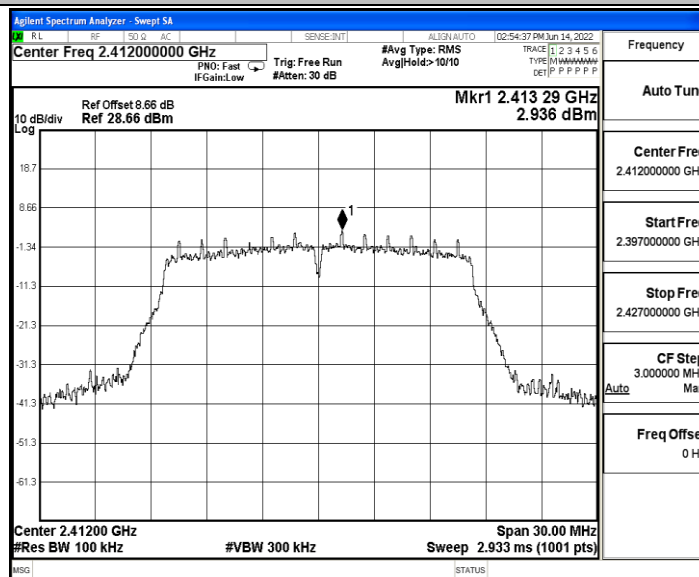
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11G_Ant_2412_0-Reference



11G_Ant_2412_30~1000

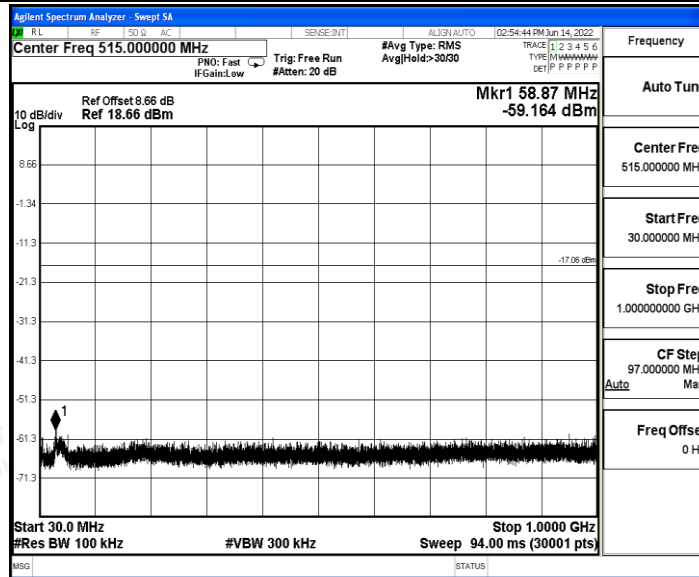


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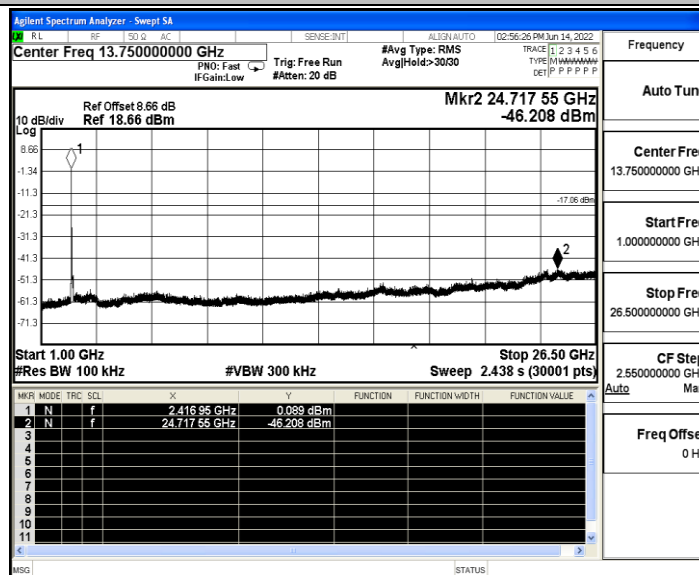
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11G_Ant_2412_1000~26500



11G_Ant_2437_0-Reference

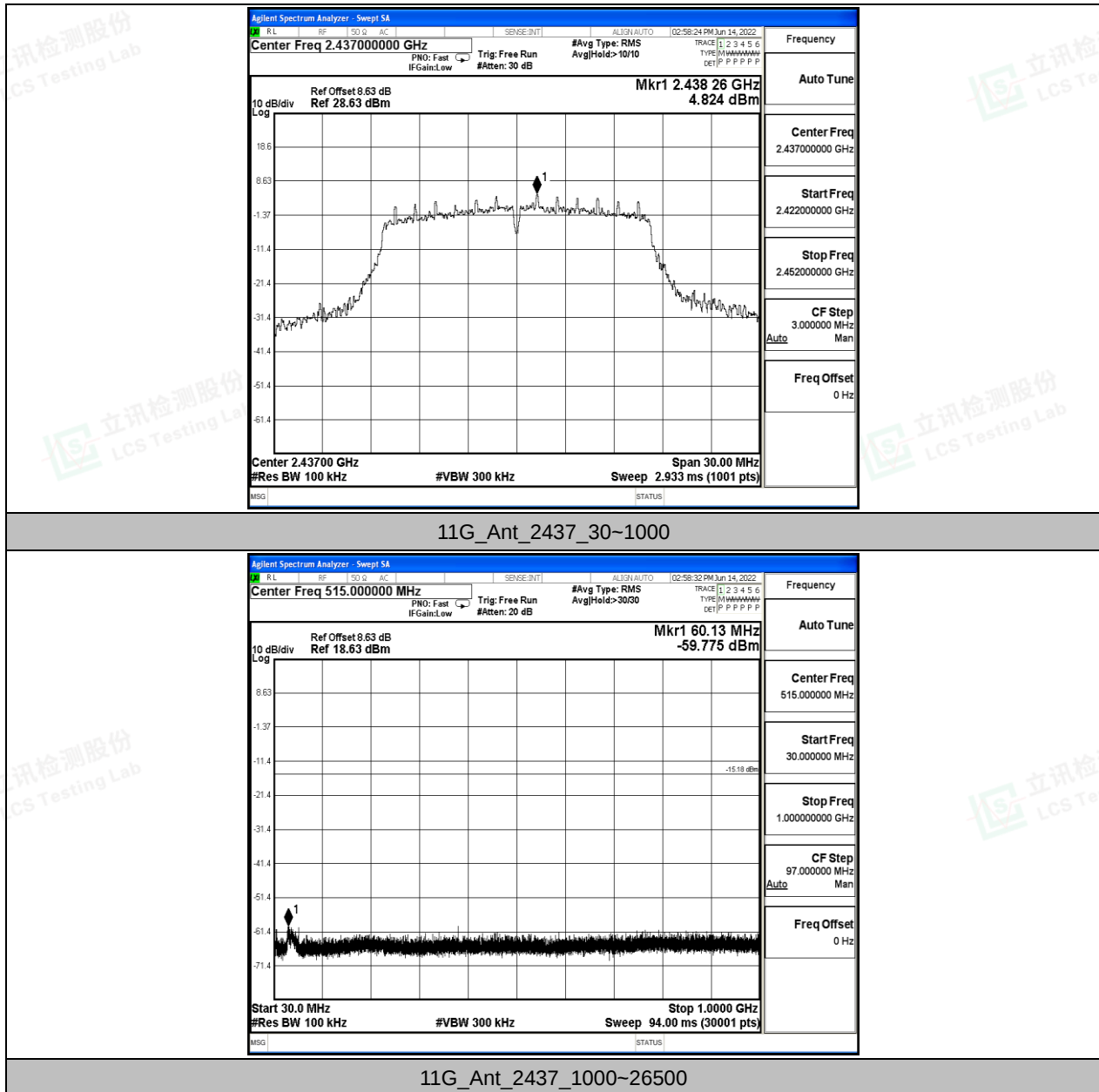


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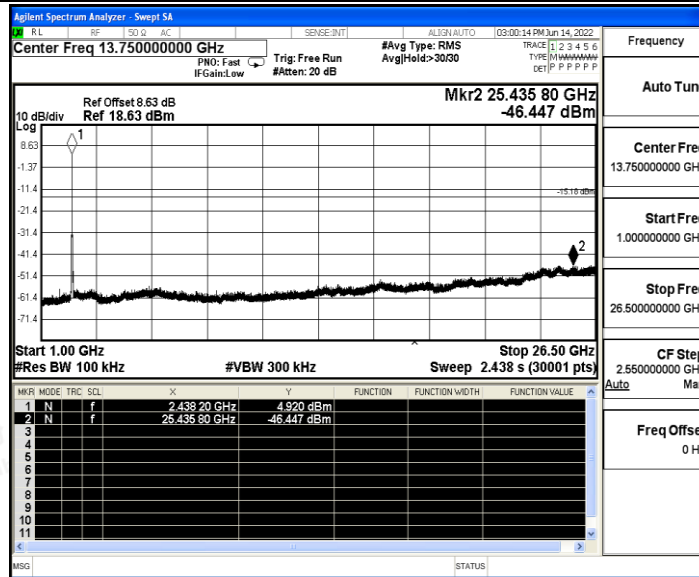


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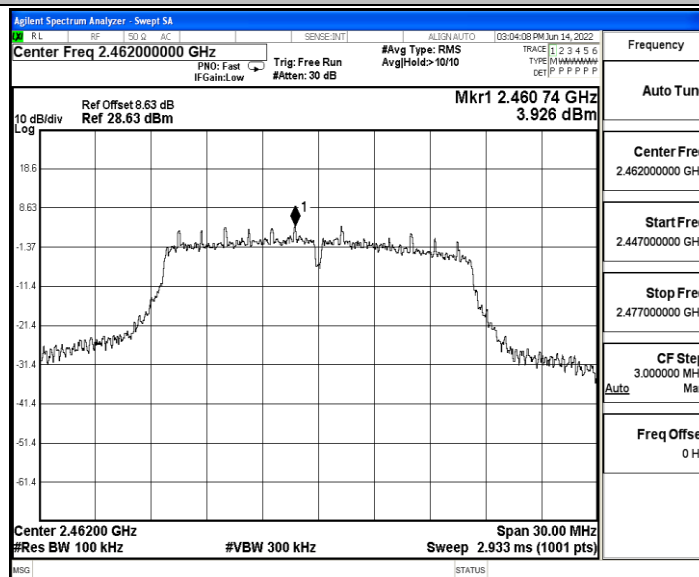
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11G_Ant_2462_0~Reference



11G_Ant_2462_30~1000



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