



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Smart TV Box

Test Model: T95MAX+

Environmental Conditions

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





C.1 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant	2412	10.080	2406.960	2417.040	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant	2412	15.680	2404.200	2419.880	0.5	PASS
		2437	15.800	2429.080	2444.880	0.5	PASS
		2462	15.800	2454.080	2469.880	0.5	PASS
11N20SISO	Ant	2412	16.760	2403.600	2420.360	0.5	PASS
		2437	16.520	2428.600	2445.120	0.5	PASS
		2462	16.760	2453.600	2470.360	0.5	PASS
11N40SISO	Ant	2422	35.120	2404.400	2439.520	0.5	PASS
		2437	35.040	2419.480	2454.520	0.5	PASS
		2452	35.120	2434.400	2469.520	0.5	PASS



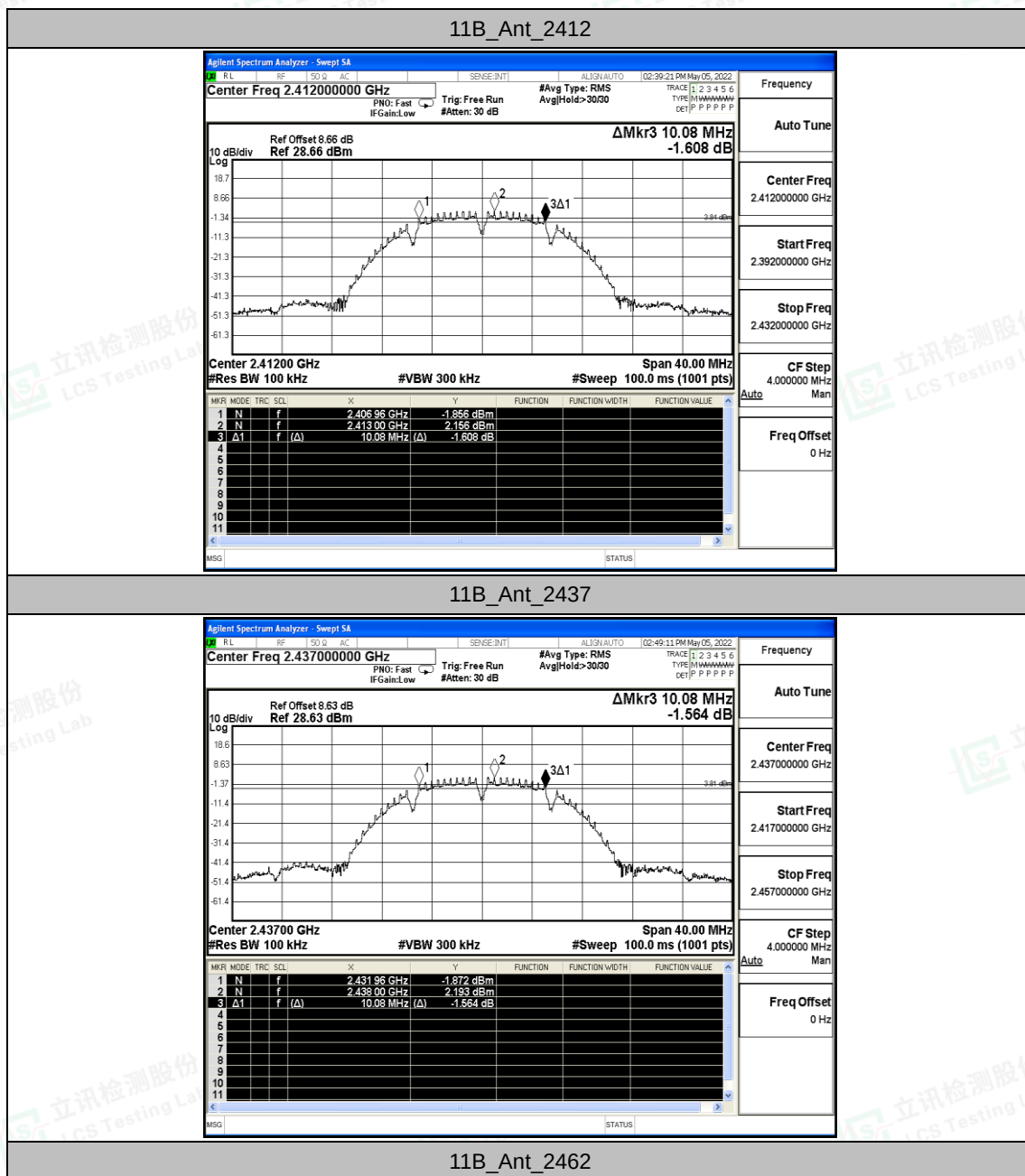
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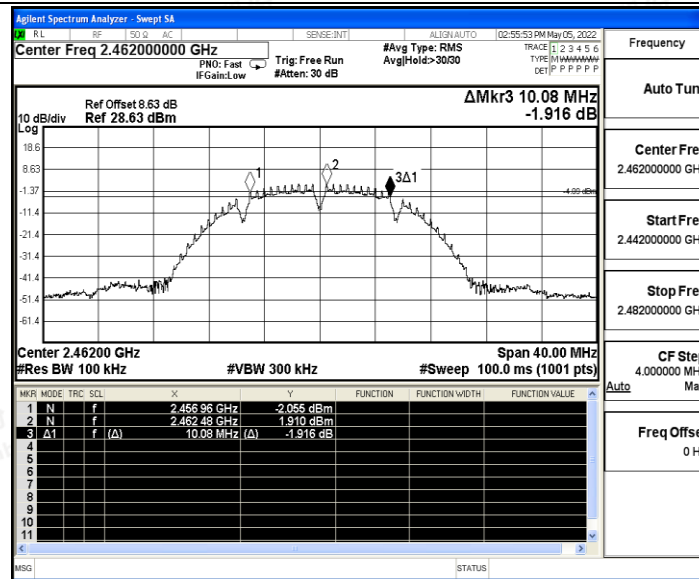
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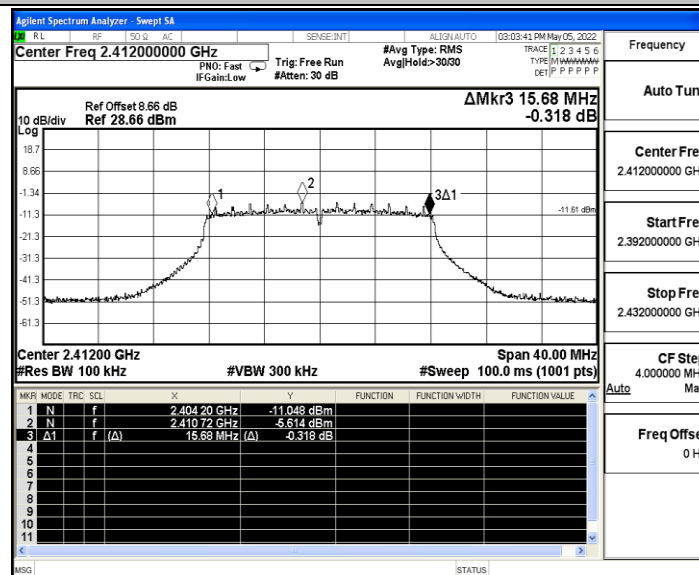
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Test Graphs





11G_Ant_2412



11G_Ant_2437

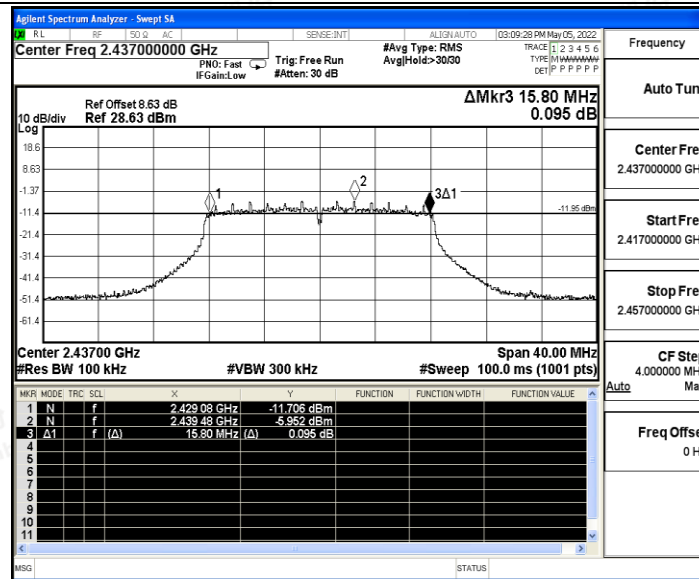


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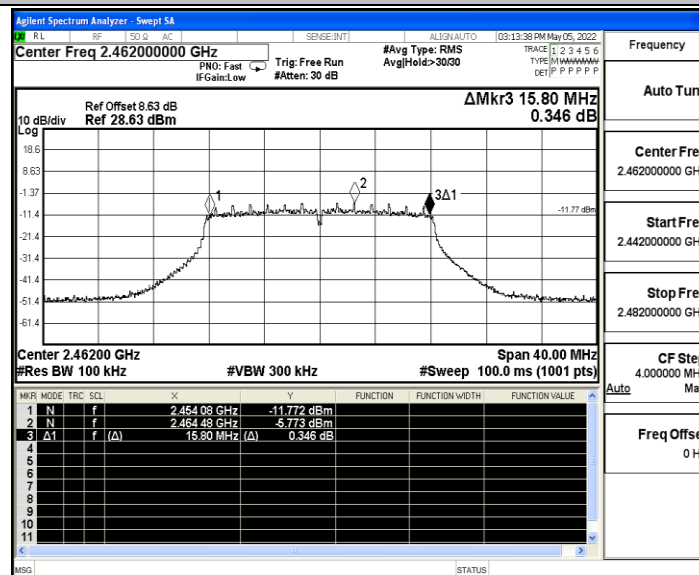
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11G_Ant_2462



11N20SISO_Ant_2412

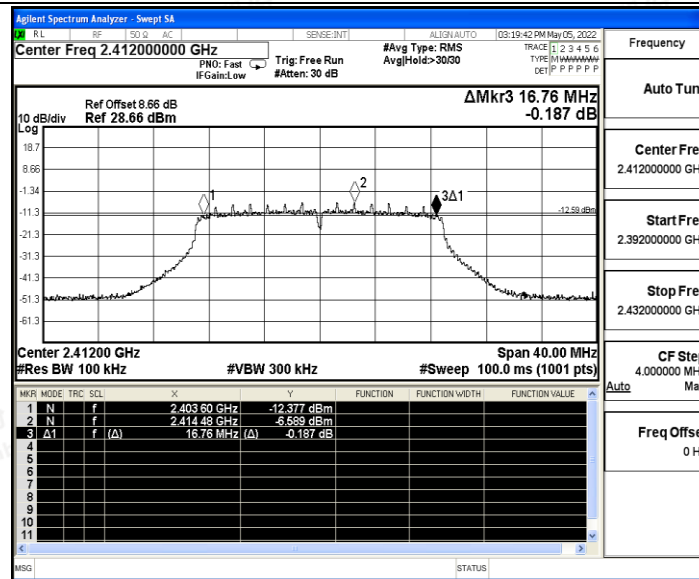


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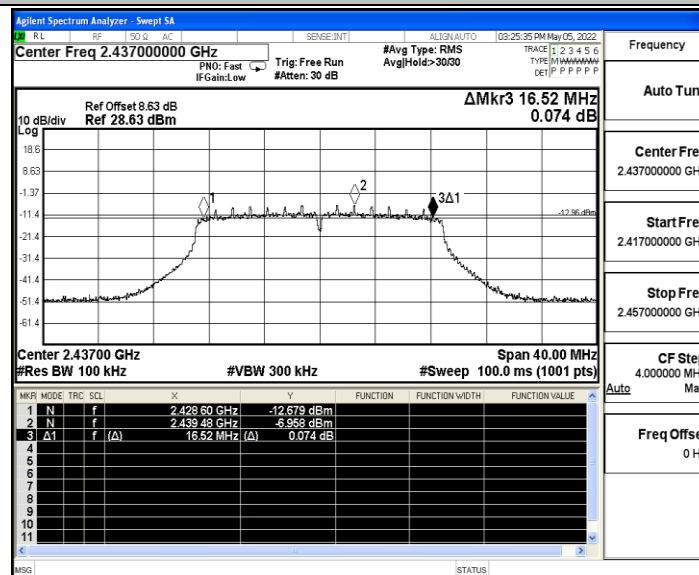
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11N20SISO_Ant_2437



11N20SISO_Ant_2462

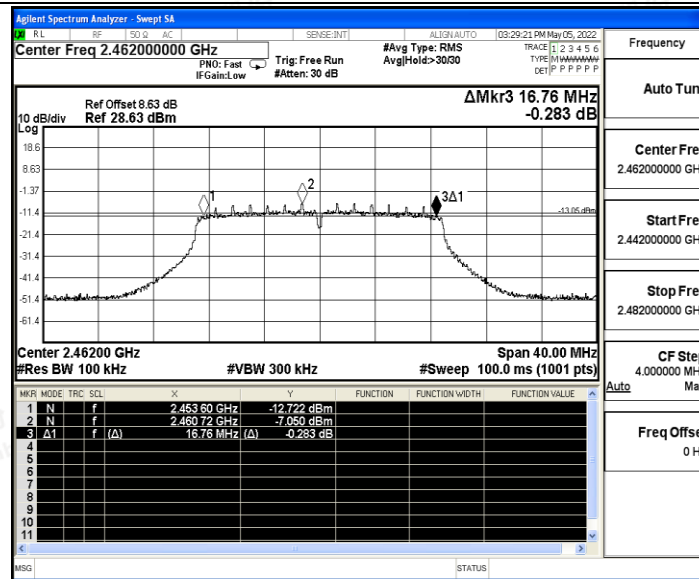


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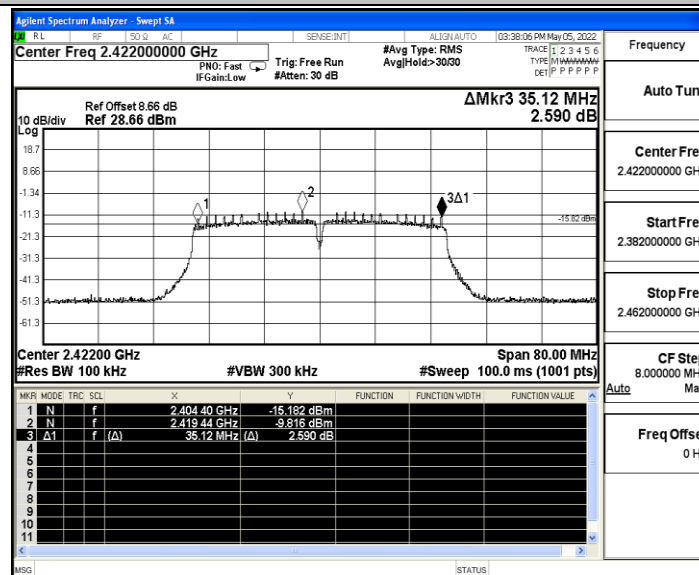
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11N40SISO_Ant_2422



11N40SISO_Ant_2437

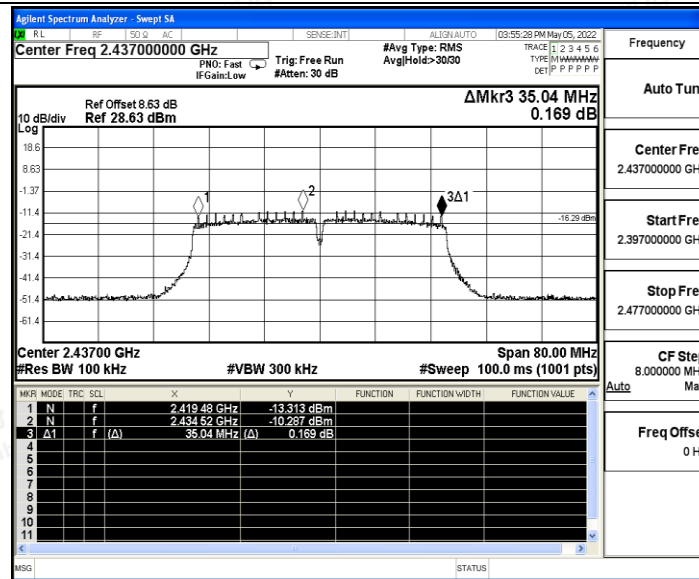


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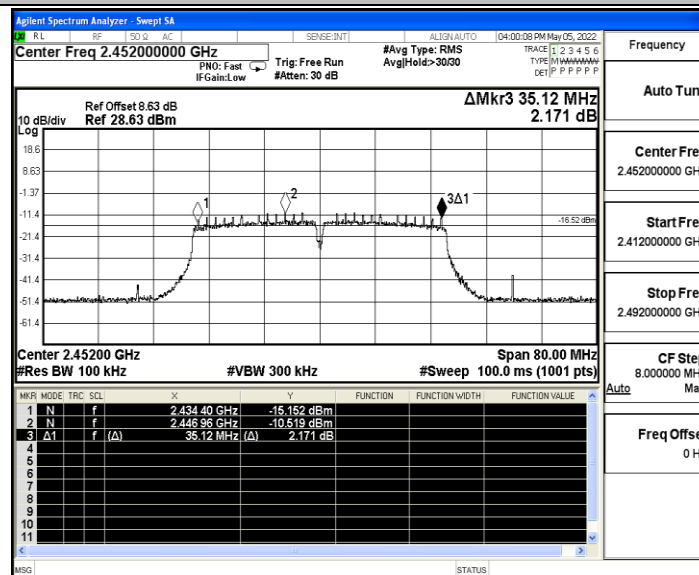
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11N40SISO_Ant_2452



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C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	2412	14.52	≤30.00	PASS
		2437	14.65	≤30.00	PASS
		2462	14.32	≤30.00	PASS
11G	Ant	2412	13.54	≤30.00	PASS
		2437	13.18	≤30.00	PASS
		2462	13.29	≤30.00	PASS
11N20SISO	Ant	2412	12.37	≤30.00	PASS
		2437	11.93	≤30.00	PASS
		2462	12.01	≤30.00	PASS
11N40SISO	Ant	2422	11.96	≤30.00	PASS
		2437	11.41	≤30.00	PASS
		2452	11.31	≤30.00	PASS





C.3 Maximum power spectral density

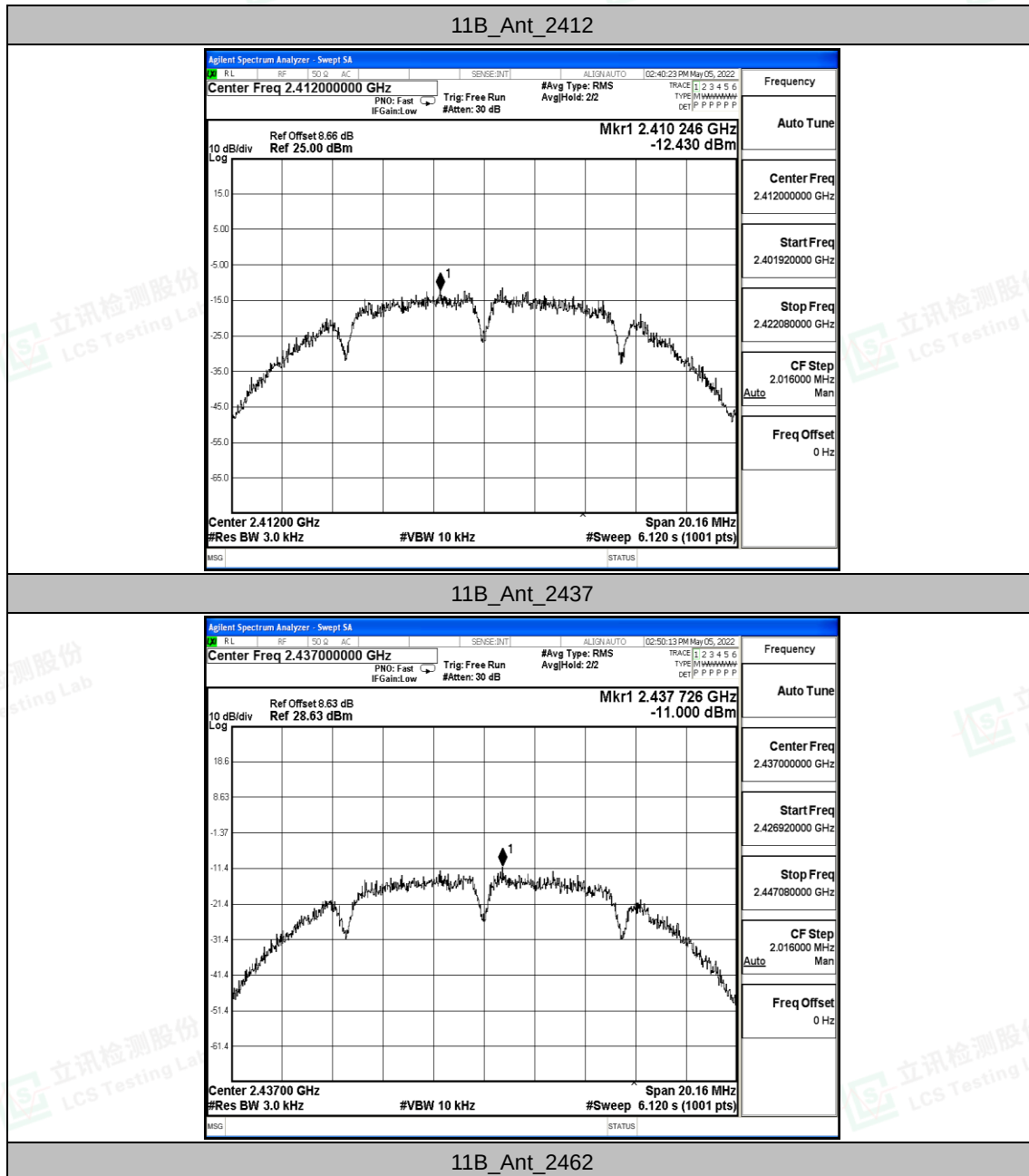
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant	2412	-12.43	≤8.00	PASS
		2437	-11	≤8.00	PASS
		2462	-11.7	≤8.00	PASS
11G	Ant	2412	-20.64	≤8.00	PASS
		2437	-21.13	≤8.00	PASS
		2462	-20.93	≤8.00	PASS
11N20SISO	Ant	2412	-21.45	≤8.00	PASS
		2437	-22.07	≤8.00	PASS
		2462	-21.14	≤8.00	PASS
11N40SISO	Ant	2422	-24.03	≤8.00	PASS
		2437	-25.21	≤8.00	PASS
		2452	-25.49	≤8.00	PASS





Test Graphs

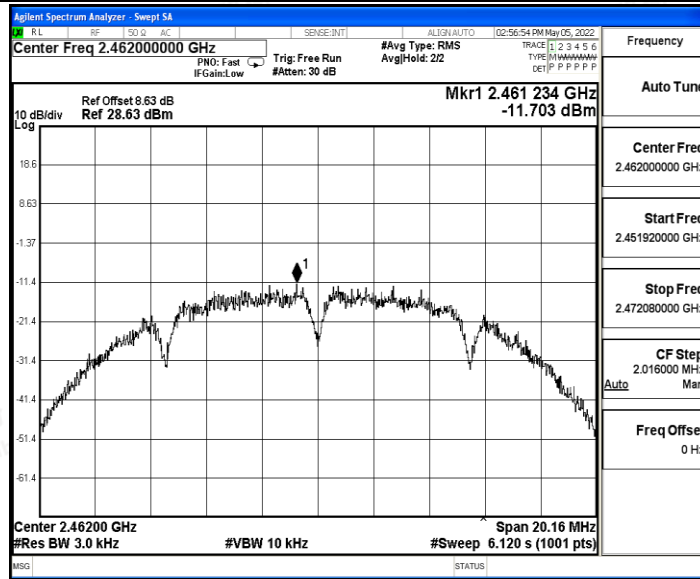


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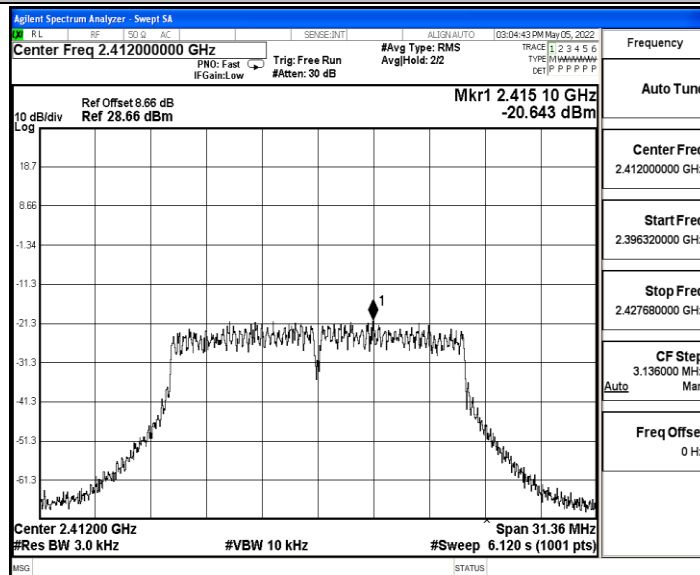
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11G_Ant_2412



11G_Ant_2437

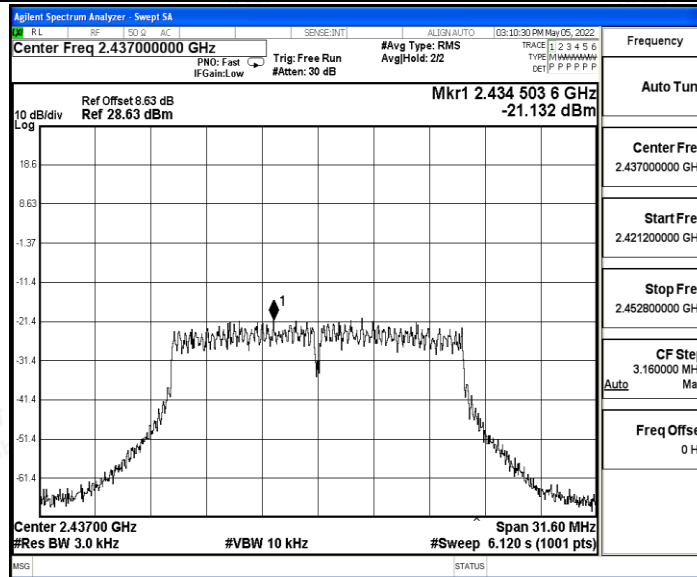


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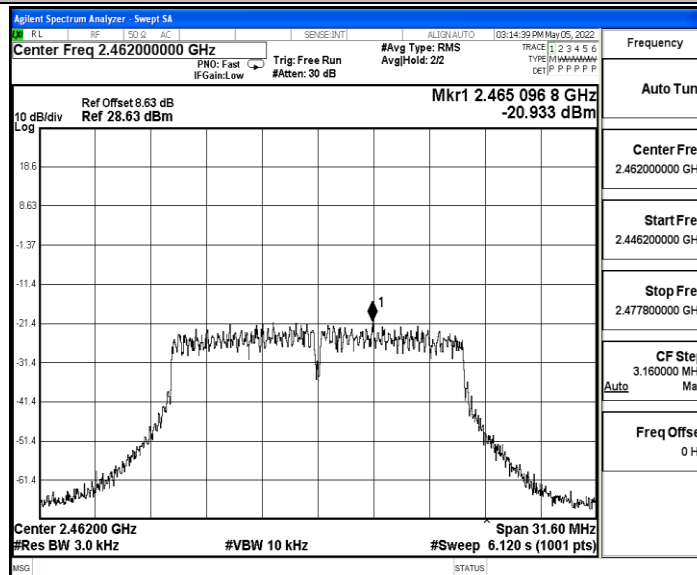
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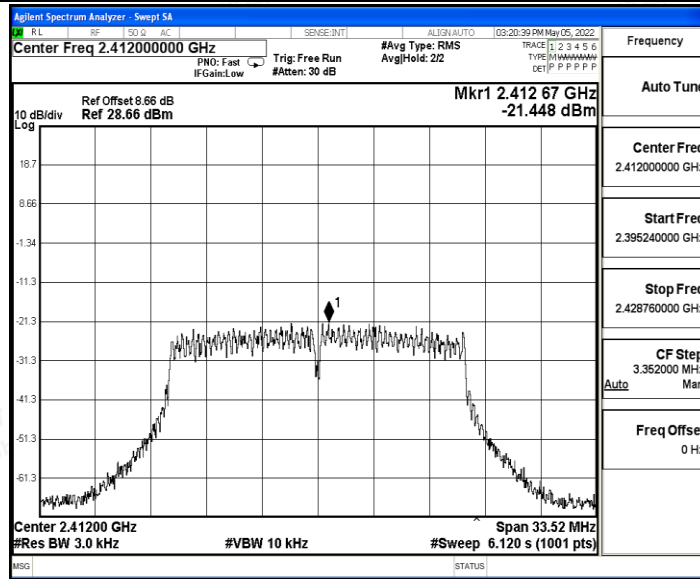


11G_Ant_2462

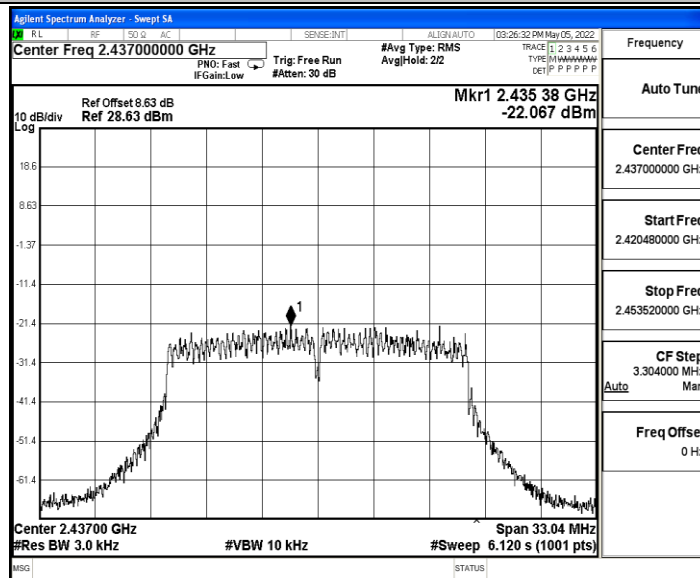


11N20SISO_Ant_2412



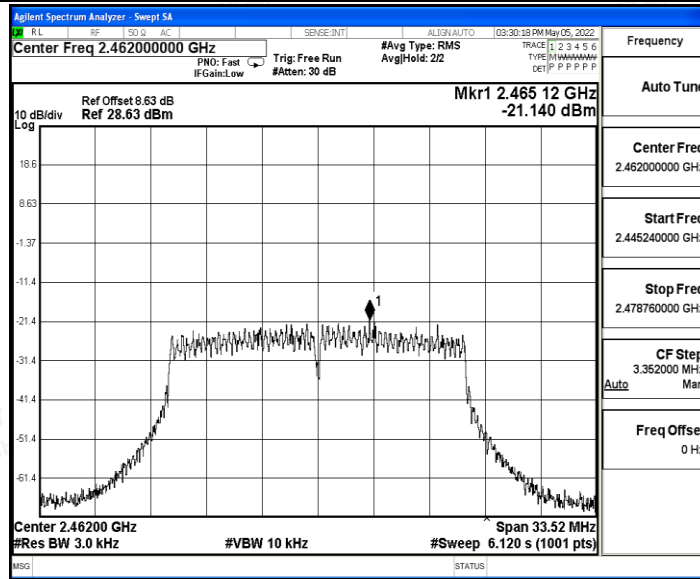


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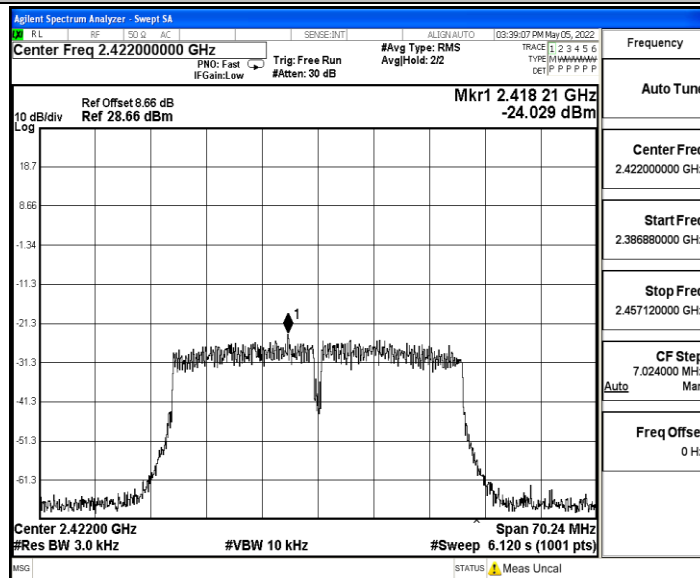


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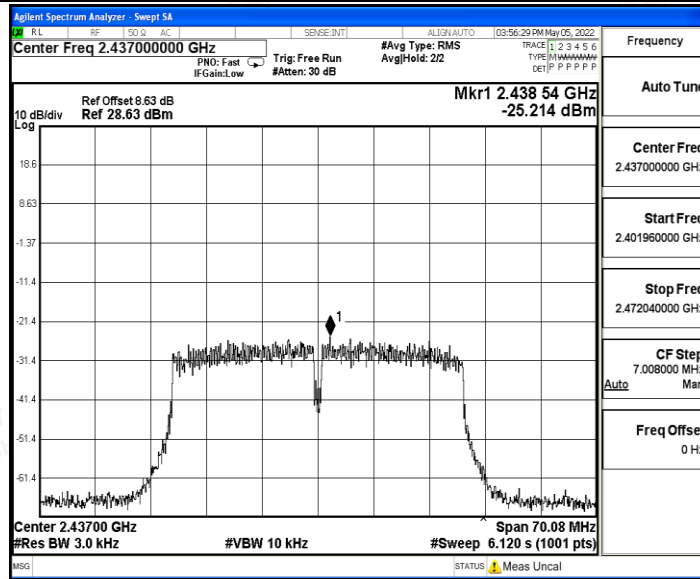


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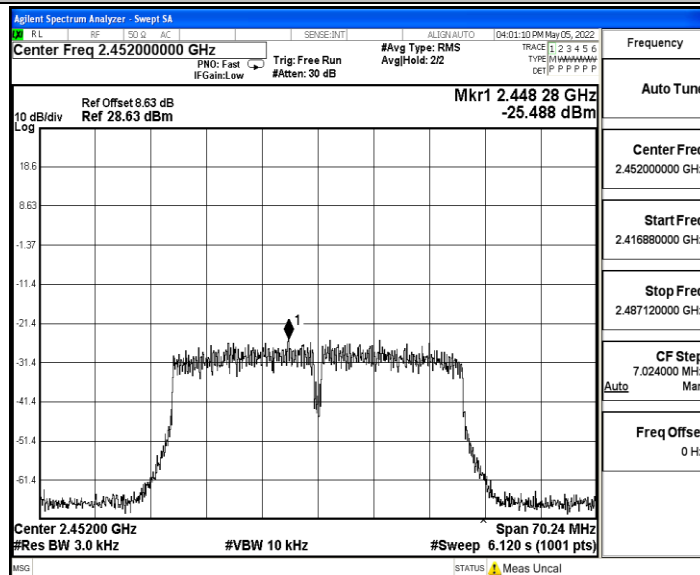


11N40SISO_Ant_2437





11N40SISO_Ant_2452





C.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant	Low	2412	2.12	-42.8	≤-17.88	PASS
		High	2462	1.77	-47.42	≤-18.24	PASS
11G	Ant	Low	2412	-5.35	-44.38	≤-25.35	PASS
		High	2462	-5.55	-48.1	≤-25.55	PASS
11N20SISO	Ant	Low	2412	-6.14	-41.93	≤-26.14	PASS
		High	2462	-6.93	-47.84	≤-26.93	PASS
11N40SISO	Ant	Low	2422	-9.72	-46.83	≤-29.72	PASS
		High	2452	-10.69	-47.62	≤-30.69	PASS



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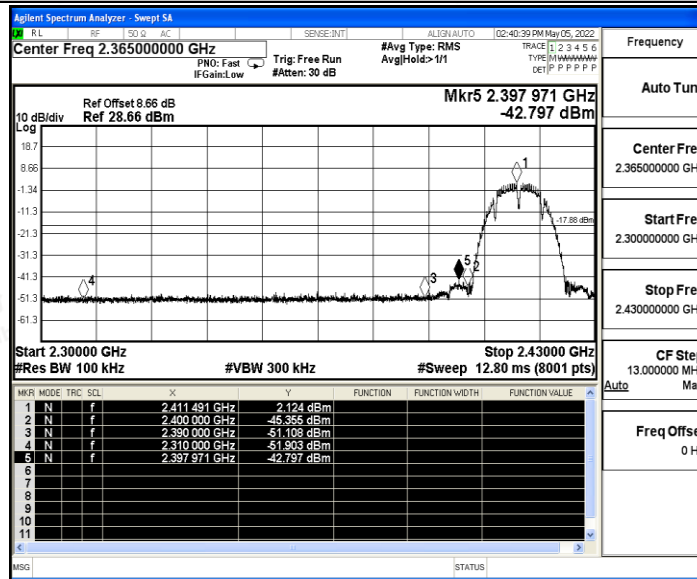
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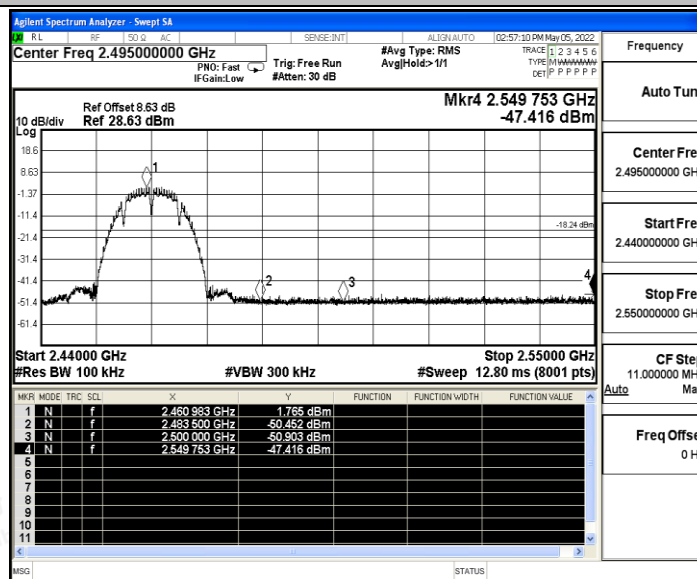


Test Graphs

11B_Ant_Low_2412



11B_Ant_High_2462



11G_Ant_Low_2412

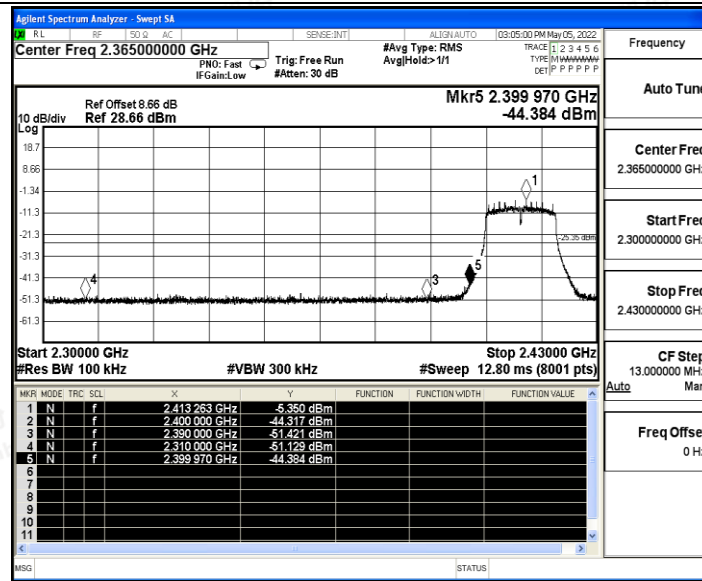


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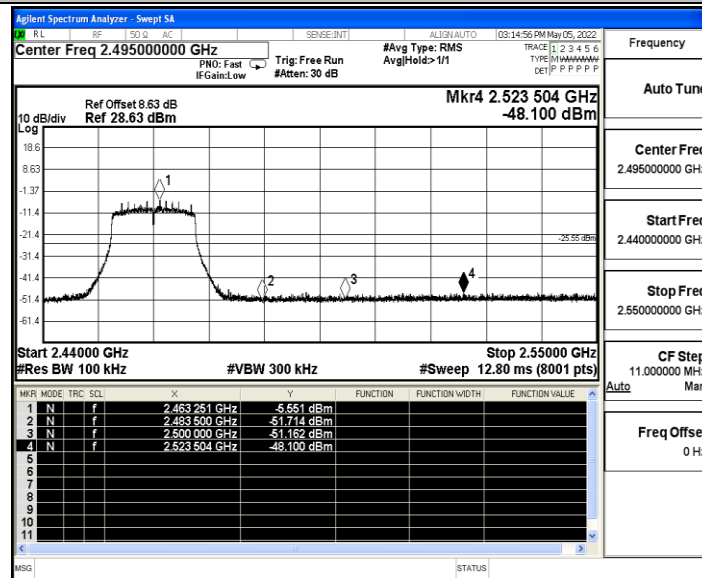
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11G_Ant_High_2462



11N20SISO_Ant_Low_2412

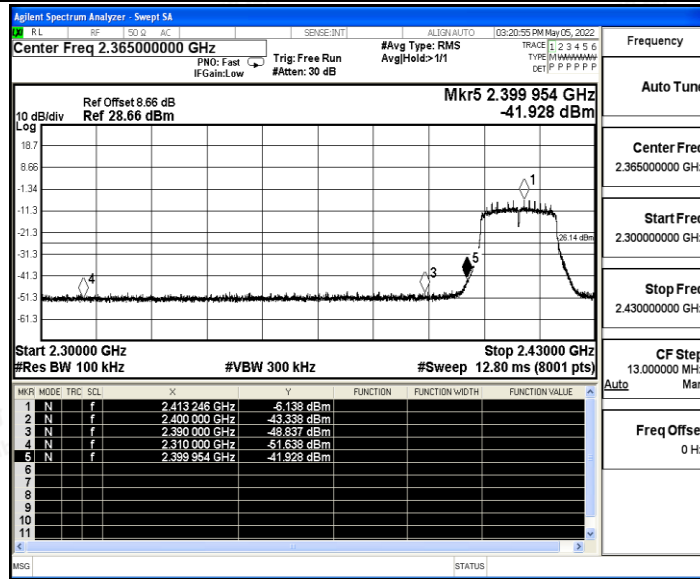


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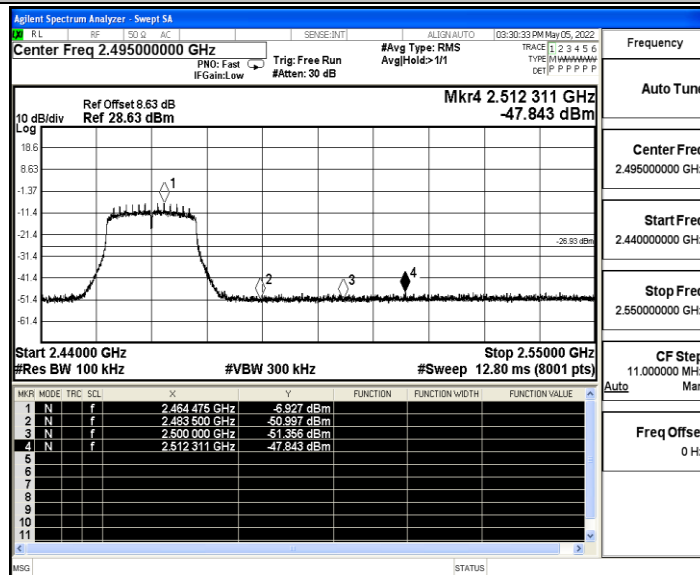
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11N20SISO_Ant_High_2462



11N40SISO_Ant_Low_2422

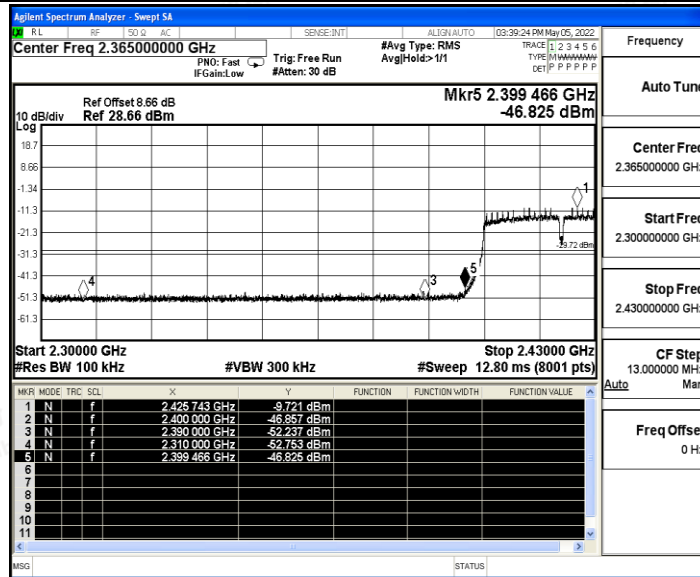


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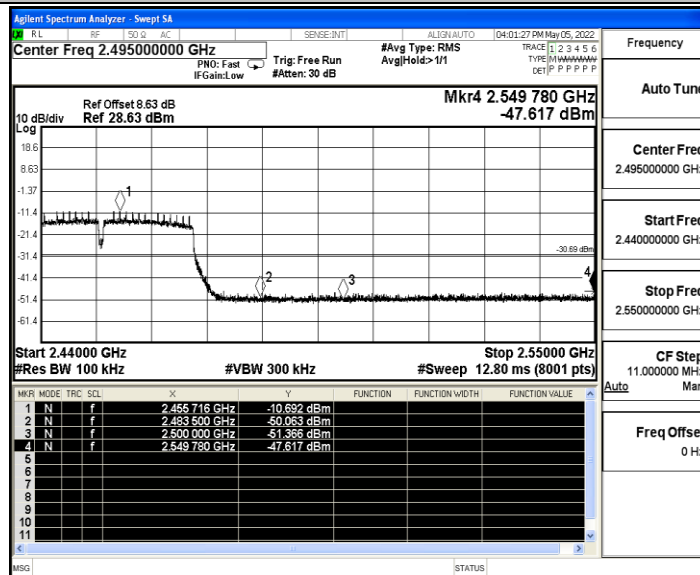
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11N40SISO_Ant_High_2452



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C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant	2412	Reference	2.10	2.10	---	PASS
			30~1000	2.10	-60.58	≤-17.9	PASS
			1000~26500	2.10	-45.6	≤-17.9	PASS
		2437	Reference	2.23	2.23	---	PASS
			30~1000	2.23	-42.3	≤-17.77	PASS
			1000~26500	2.23	-45.99	≤-17.77	PASS
		2462	Reference	1.89	1.89	---	PASS
			30~1000	1.89	-60.74	≤-18.11	PASS
			1000~26500	1.89	-45.55	≤-18.11	PASS
11G	Ant	2412	Reference	-5.09	-5.09	---	PASS
			30~1000	-5.09	-60.64	≤-25.09	PASS
			1000~26500	-5.09	-45.38	≤-25.09	PASS
		2437	Reference	-5.90	-5.90	---	PASS
			30~1000	-5.90	-47.83	≤-25.9	PASS
			1000~26500	-5.90	-46.41	≤-25.9	PASS
		2462	Reference	-5.71	-5.71	---	PASS
			30~1000	-5.71	-60.51	≤-25.71	PASS
			1000~26500	-5.71	-45.9	≤-25.71	PASS
11N20SISO	Ant	2412	Reference	-6.98	-6.98	---	PASS
			30~1000	-6.98	-60.22	≤-26.98	PASS
			1000~26500	-6.98	-45.91	≤-26.98	PASS
		2437	Reference	-6.66	-6.66	---	PASS
			30~1000	-6.66	-60.19	≤-26.66	PASS
			1000~26500	-6.66	-45.95	≤-26.66	PASS
		2462	Reference	-7.40	-7.40	---	PASS
			30~1000	-7.40	-60.52	≤-27.4	PASS
			1000~26500	-7.40	-45.85	≤-27.4	PASS
11N40SISO	Ant	2422	Reference	-9.81	-9.81	---	PASS
			30~1000	-9.81	-60.6	≤-29.81	PASS
			1000~26500	-9.81	-45.92	≤-29.81	PASS
		2437	Reference	-10.46	-10.46	---	PASS
			30~1000	-10.46	-60.75	≤-30.46	PASS
			1000~26500	-10.46	-46.44	≤-30.46	PASS
		2452	Reference	-10.40	-10.40	---	PASS
			30~1000	-10.40	-38.63	≤-30.4	PASS



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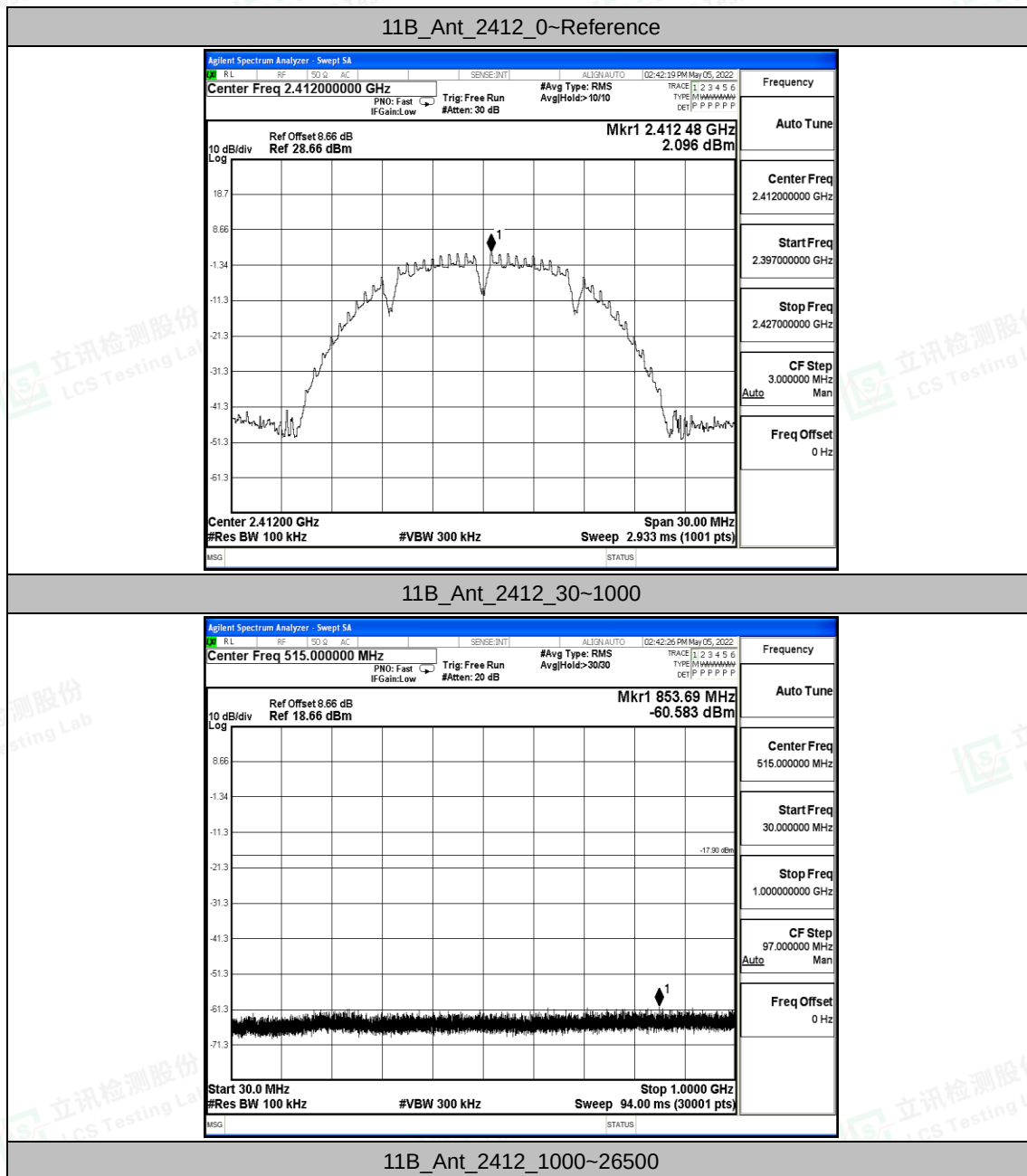


			1000~26500	-10.40	-46.08	≤-30.4	PASS
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Test Graphs

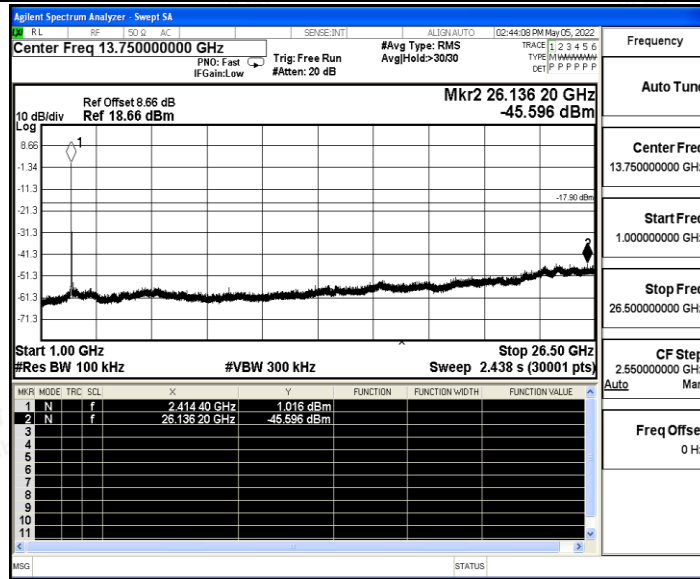


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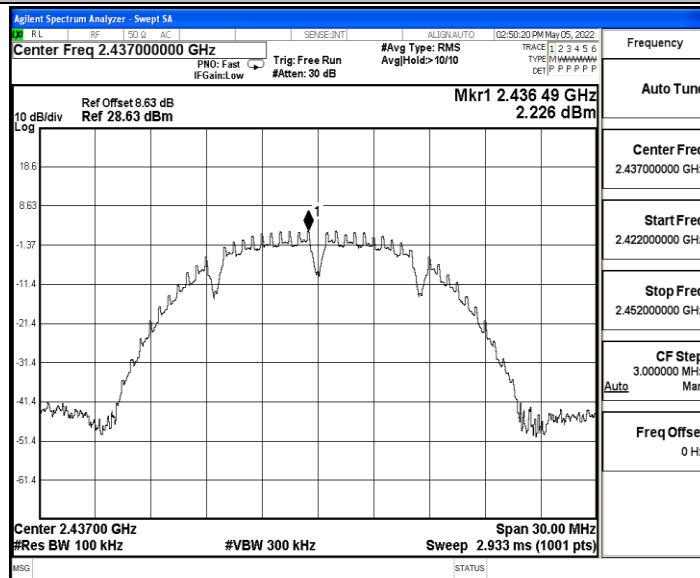
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11B_Ant_2437_0~Reference



11B_Ant_2437_30~1000

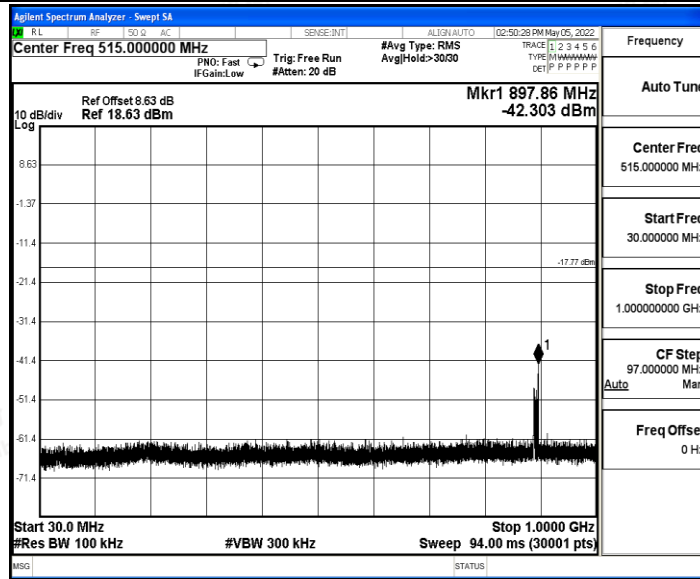


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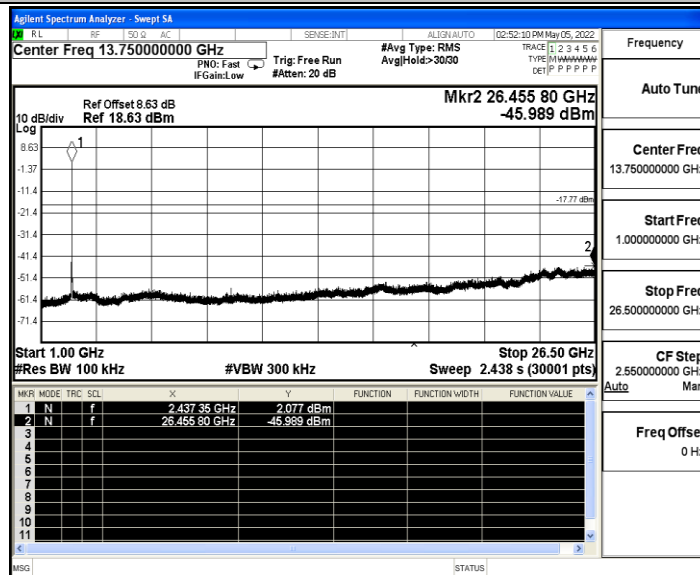
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11B_Ant_2437_1000~26500



11B_Ant_2462_0~Reference

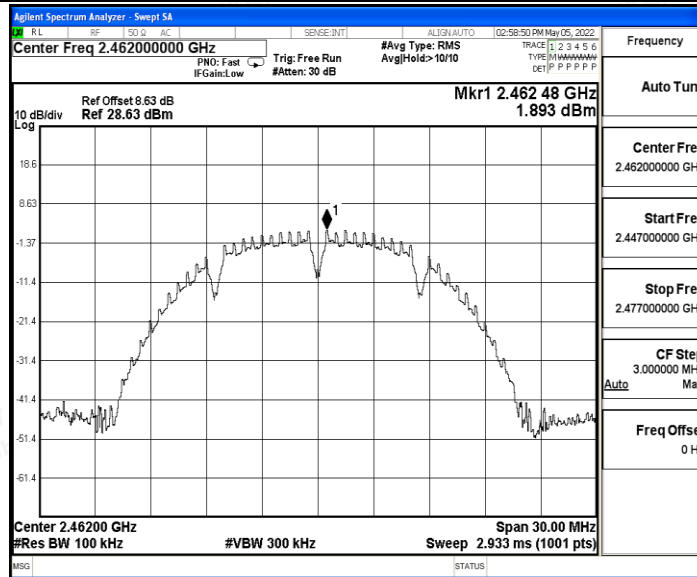


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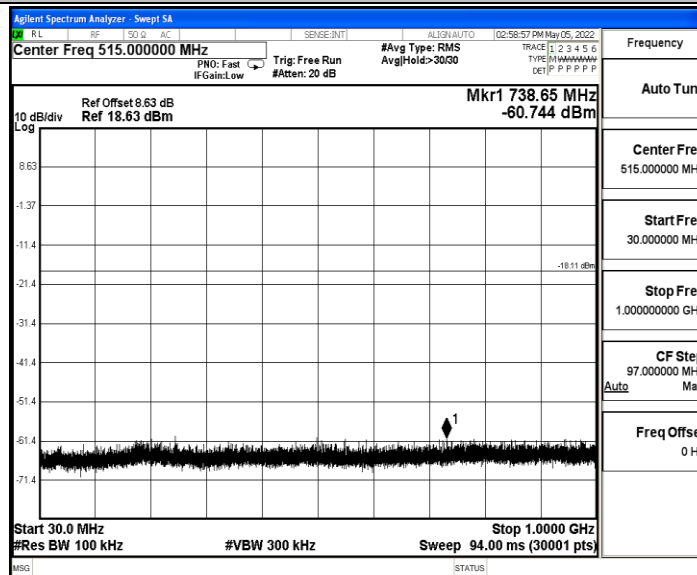
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11B_Ant_2462_30~1000



11B_Ant_2462_1000~26500

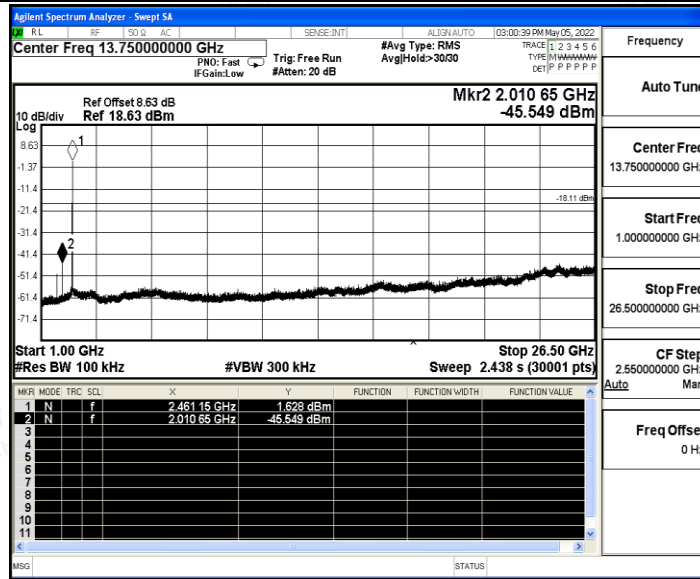


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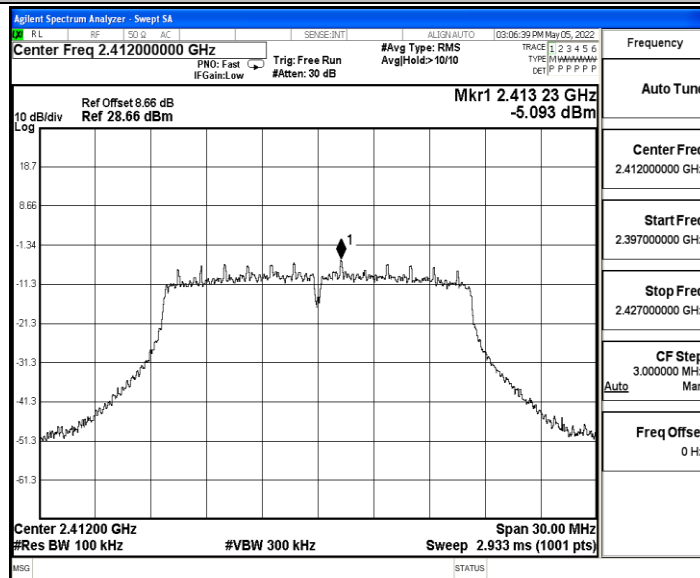
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11G_Ant_2412_0~Reference



11G_Ant_2412_30~1000

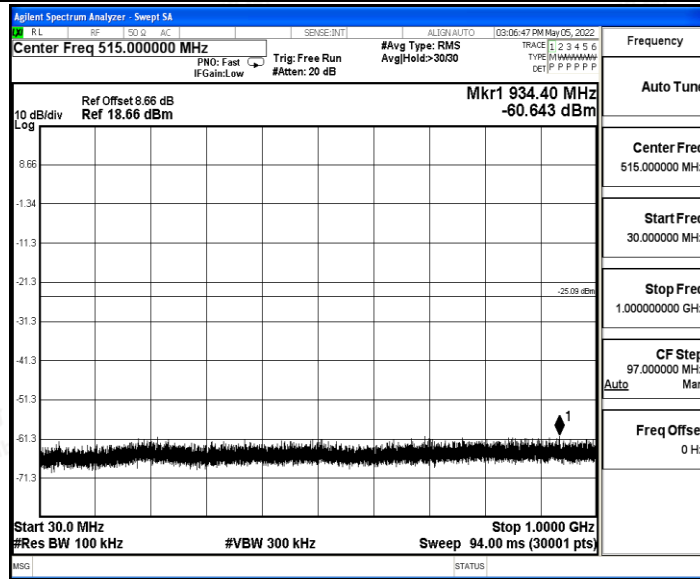


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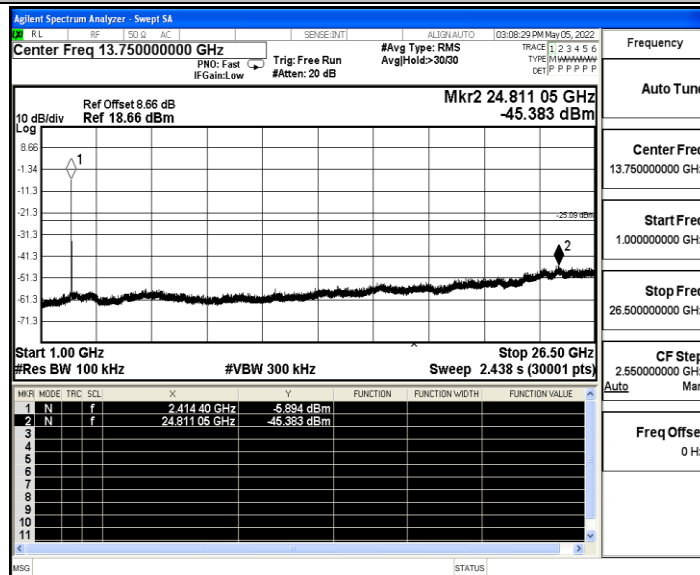
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11G_Ant_2412_1000~26500



11G_Ant_2437_0~Reference

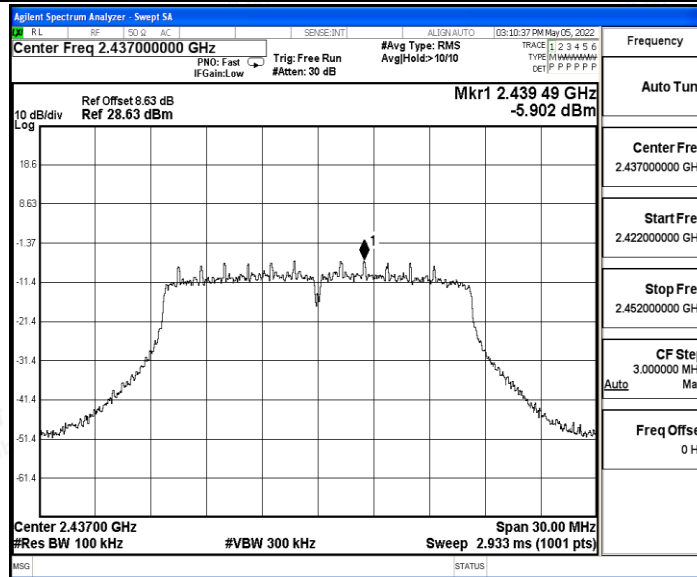


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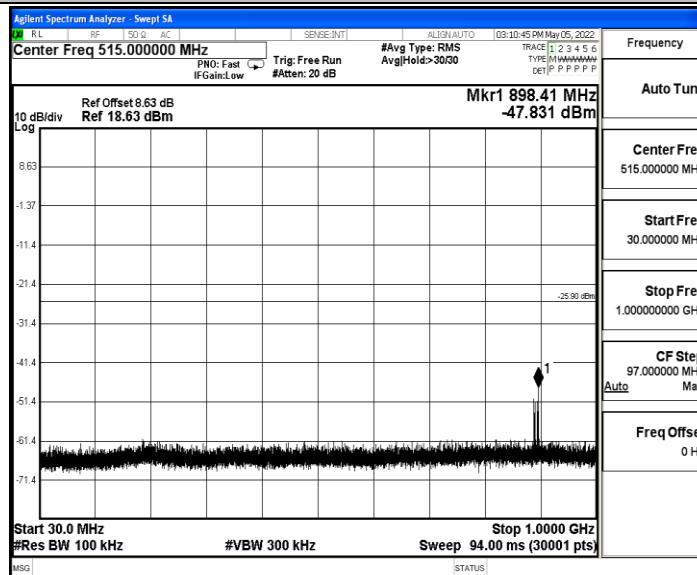
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11G_Ant_2437_30~1000



11G_Ant_2437_1000~26500



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