



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: VIM4

Test Model: VIM4

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	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant A	2412	8.080	2408.440	2416.520	0.5	PASS
		2437	9.040	2432.480	2441.520	0.5	PASS
		2462	8.560	2457.480	2466.040	0.5	PASS
11G	Ant A	2412	15.120	2404.440	2419.560	0.5	PASS
		2437	15.120	2429.440	2444.560	0.5	PASS
		2462	15.120	2454.440	2469.560	0.5	PASS
11N20SISO	Ant A	2412	15.920	2404.440	2420.360	0.5	PASS
		2437	15.920	2429.480	2445.400	0.5	PASS
		2462	15.120	2454.440	2469.560	0.5	PASS
11AX20SISO	Ant A	2412	17.560	2403.200	2420.760	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.280	2453.200	2470.480	0.5	PASS
11B	Ant B	2412	8.560	2407.960	2416.520	0.5	PASS
		2437	7.080	2433.440	2440.520	0.5	PASS
		2462	7.560	2458.440	2466.000	0.5	PASS
11G	Ant B	2412	15.320	2404.440	2419.760	0.5	PASS
		2437	15.120	2429.440	2444.560	0.5	PASS
		2462	15.120	2454.440	2469.560	0.5	PASS
11N20SISO	Ant B	2412	15.920	2404.440	2420.360	0.5	PASS
		2437	15.920	2429.440	2445.360	0.5	PASS
		2462	15.120	2454.440	2469.560	0.5	PASS
11AX20SISO	Ant B	2412	16.360	2403.200	2419.560	0.5	PASS
		2437	17.600	2428.200	2445.800	0.5	PASS
		2462	16.040	2453.520	2469.560	0.5	PASS



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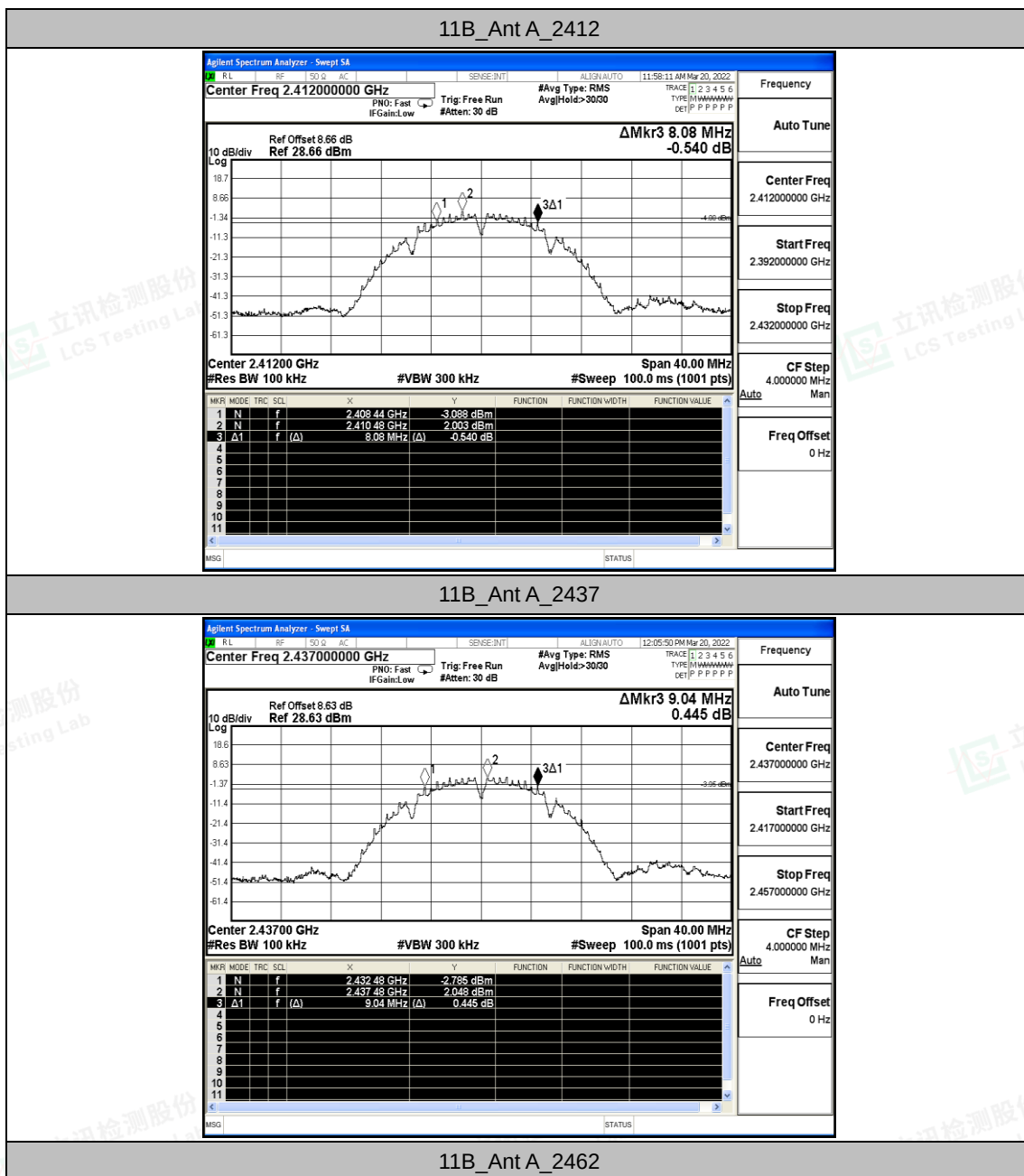
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Test Graphs

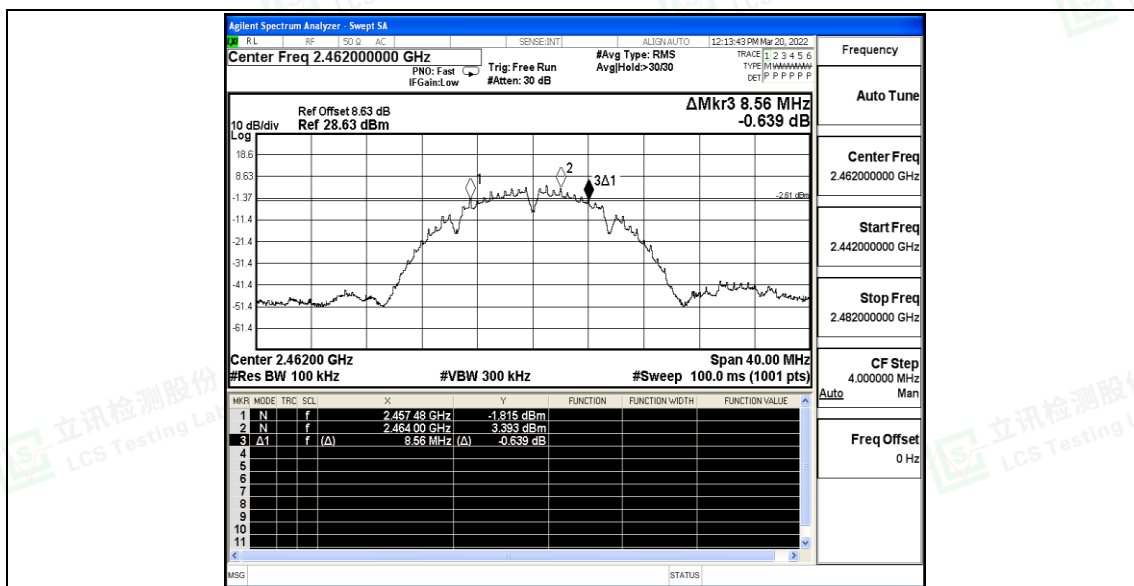


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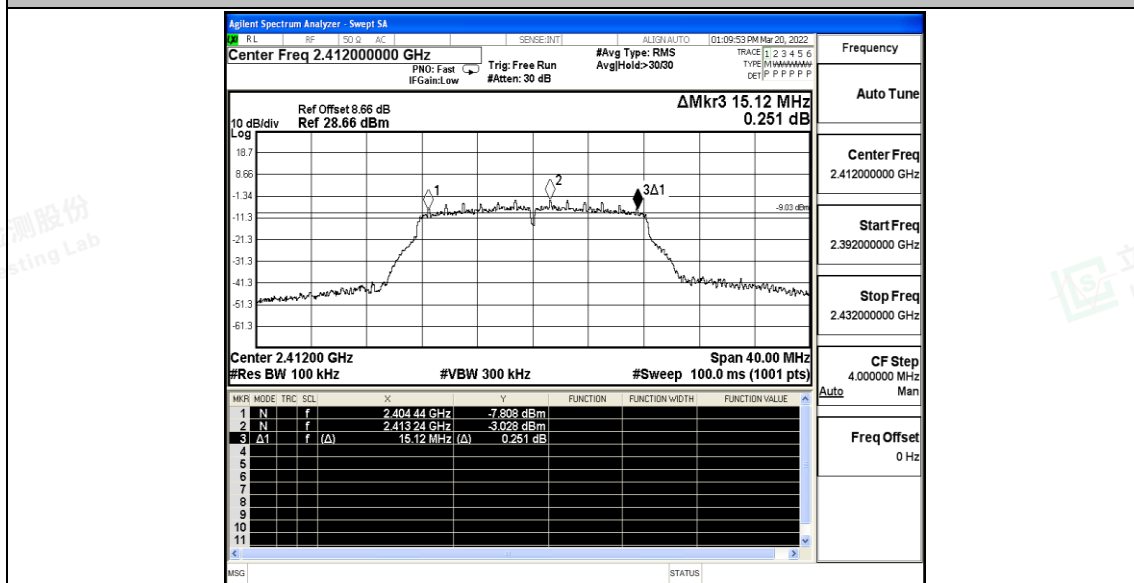
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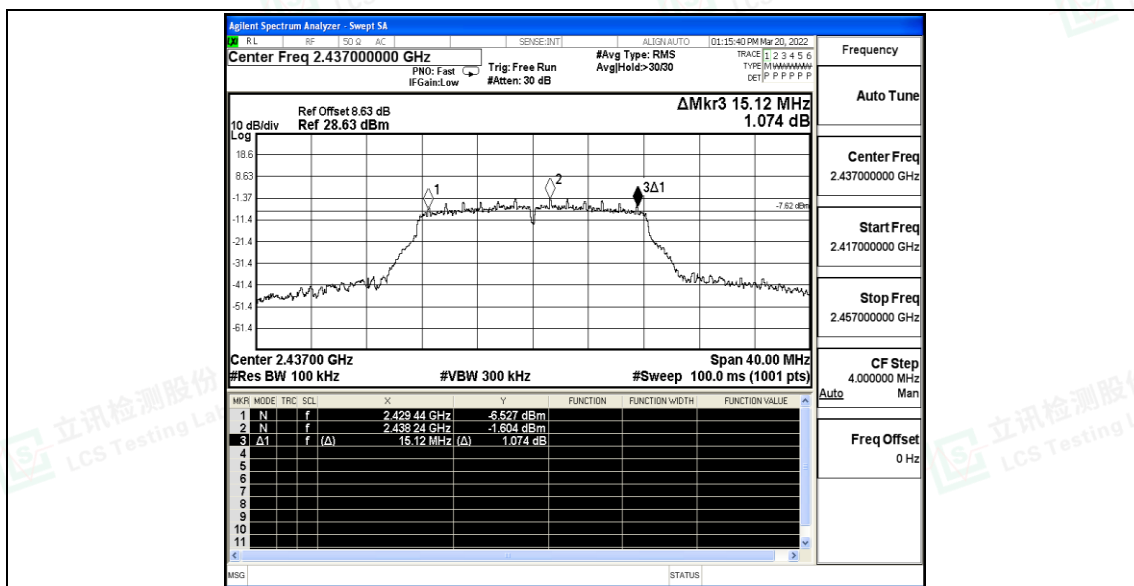


11G Ant A 2412

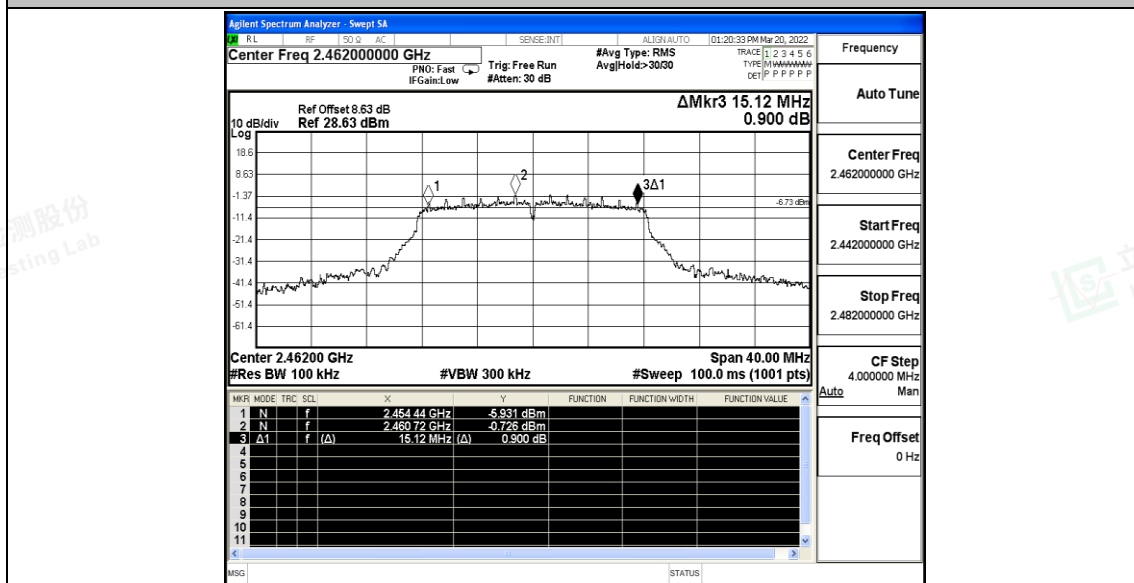


11G Ant A 2437



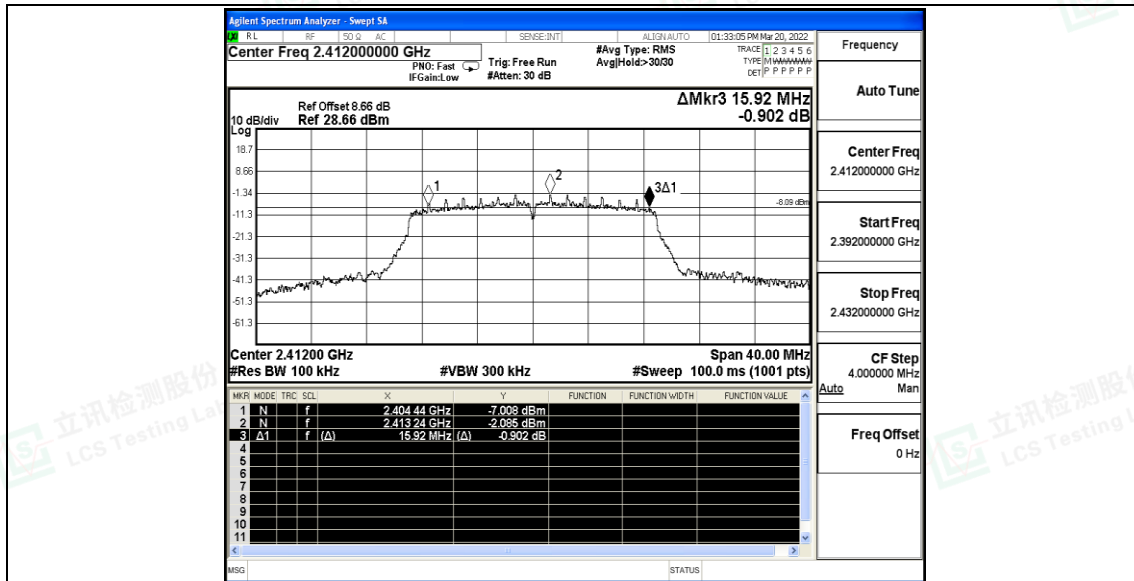


11G Ant A 2462

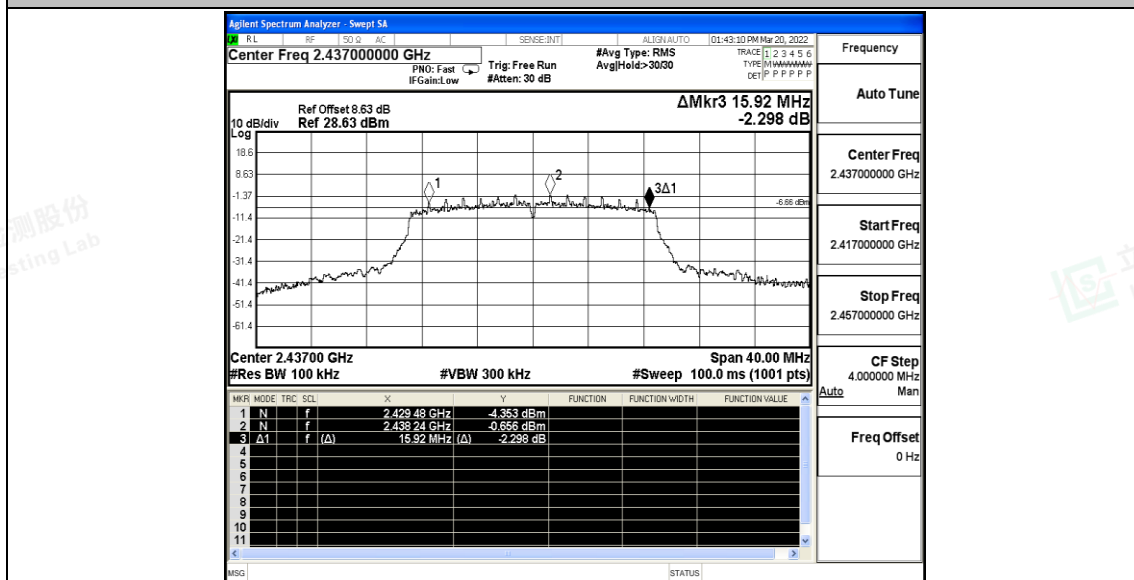


11N20SISO Ant A 2412





11N20SISO_Ant A_2437



11N20SISO_Ant A_2462

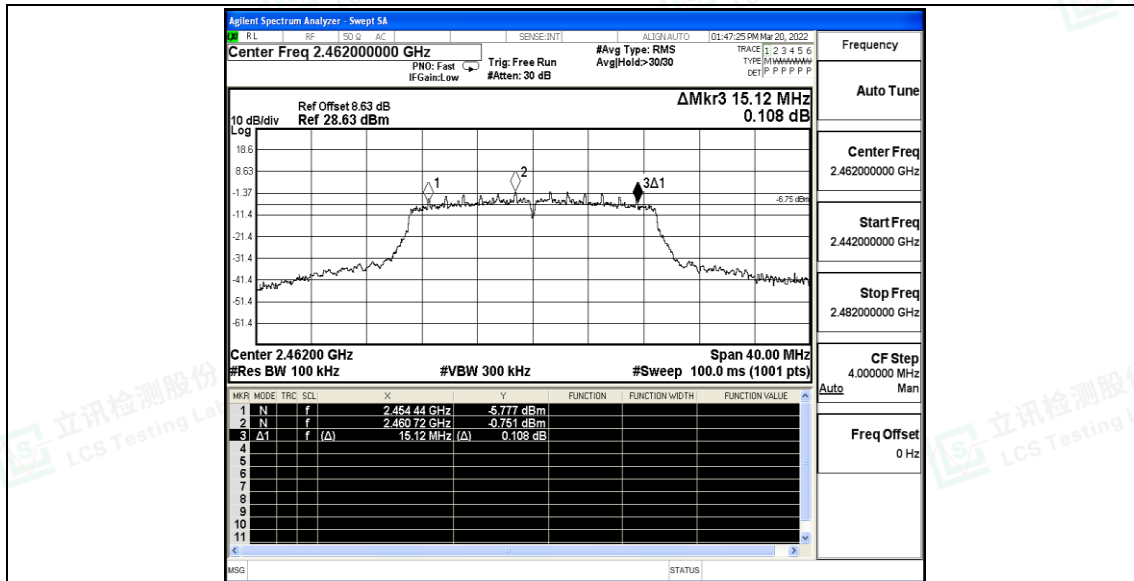


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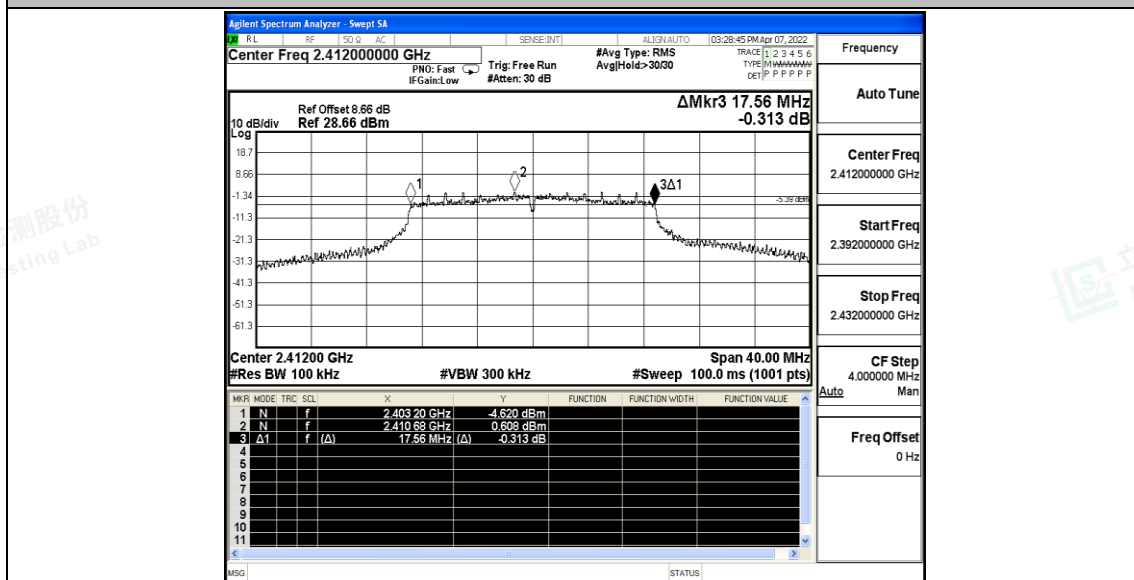
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11AX20SISO_Ant A_2412



11AX20SISO_Ant A_2437

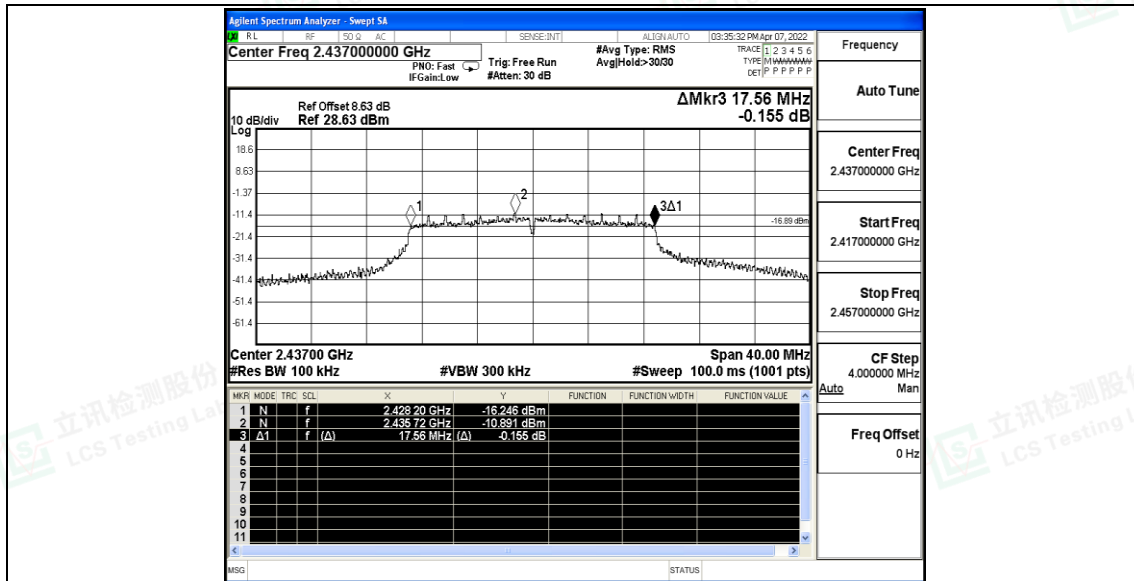


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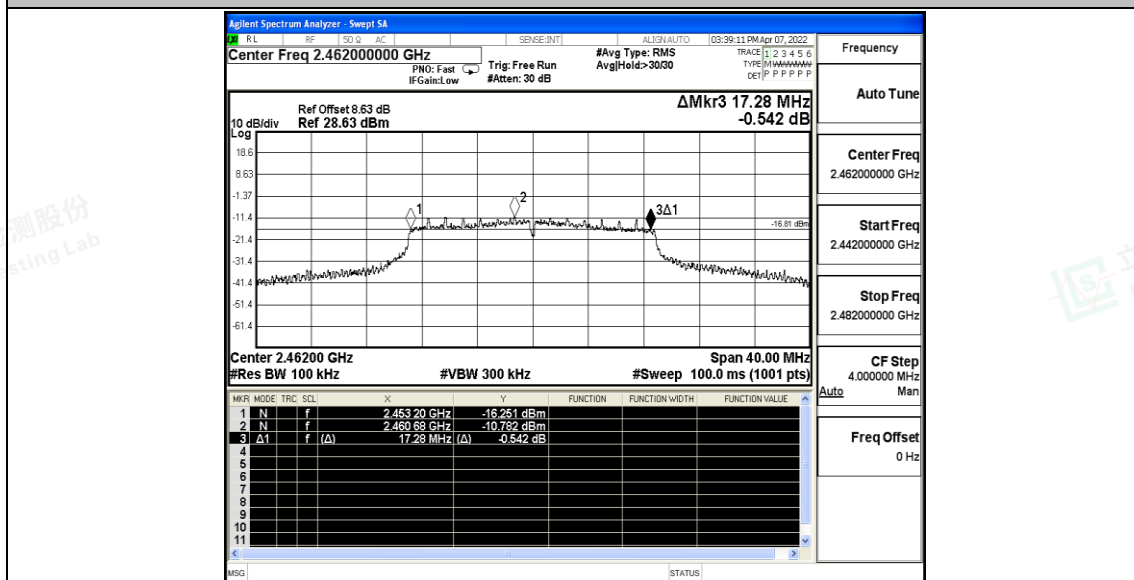
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11AX20SISO_Ant A_2462



11B_Ant B_2412

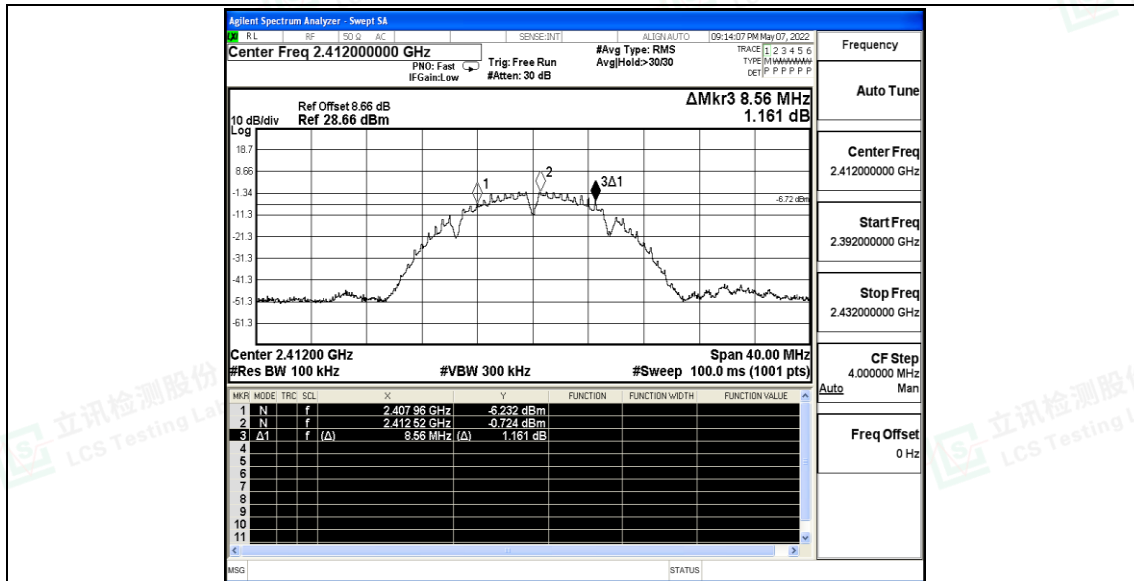


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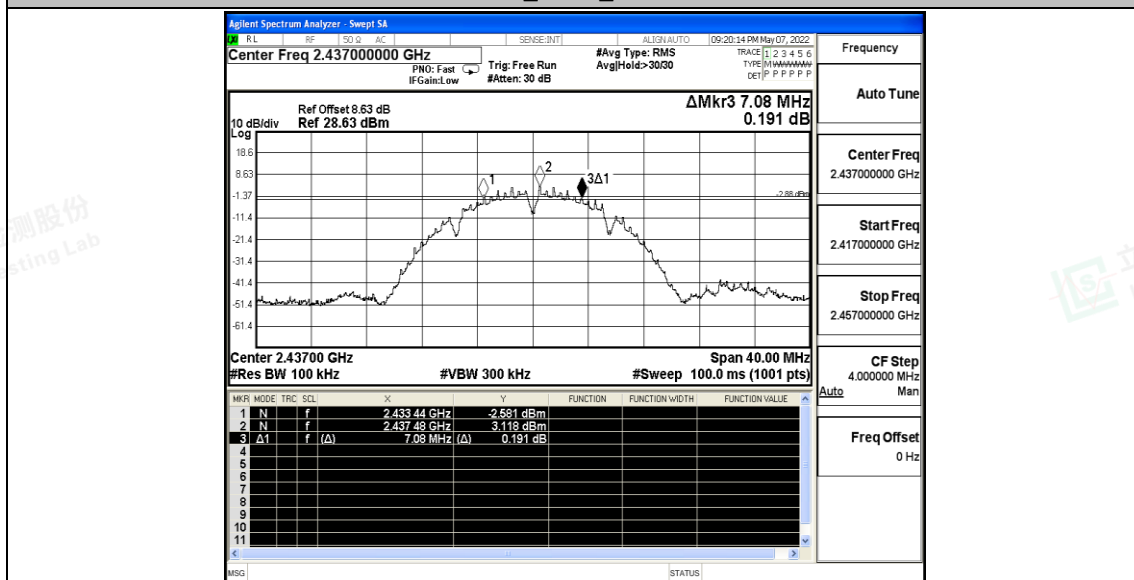
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11B_Ant B_2437



11B_Ant B_2462

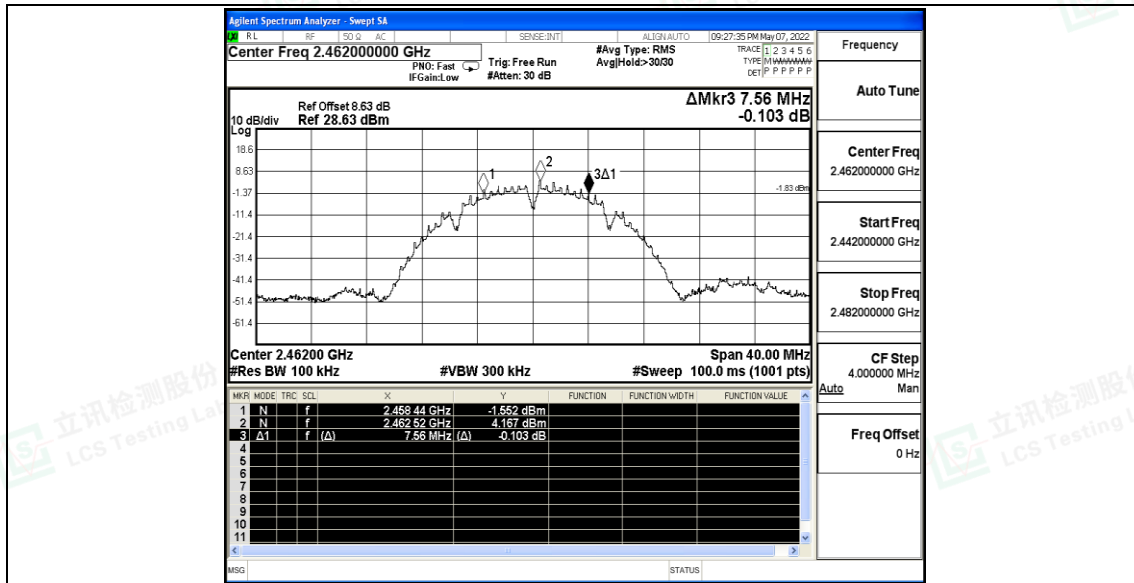


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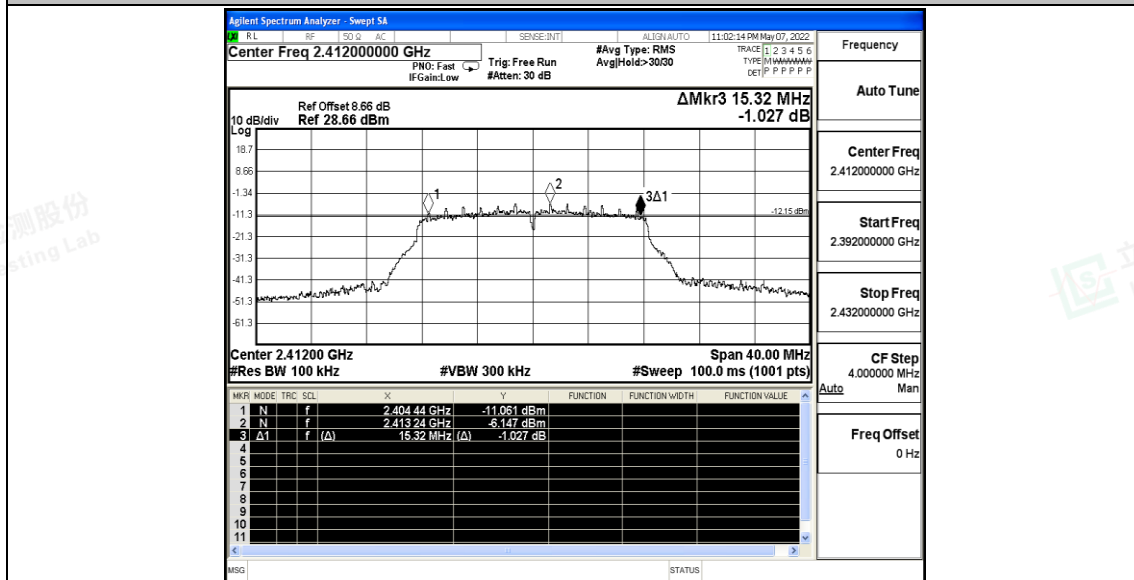
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11G_Ant B_2412



11G_Ant B_2437

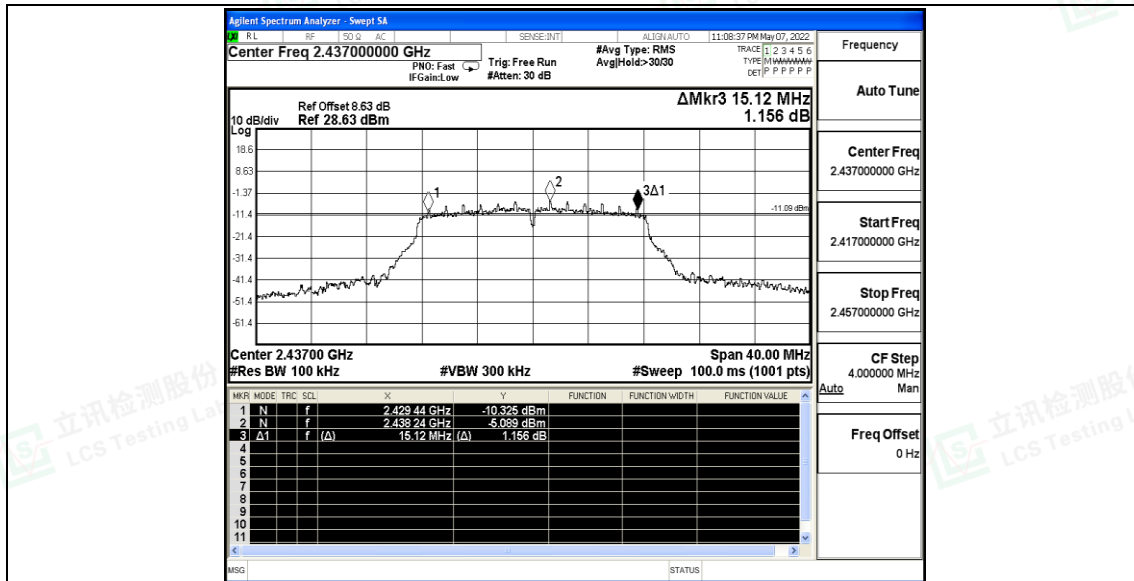


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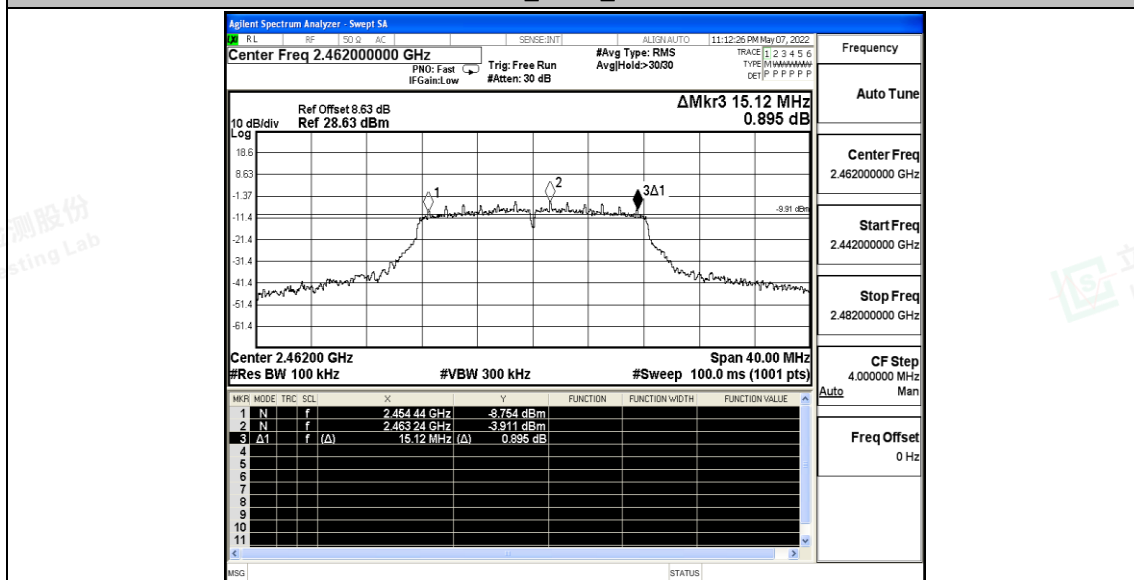
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11G_Ant B_2462



11N20SISO_Ant B_2412

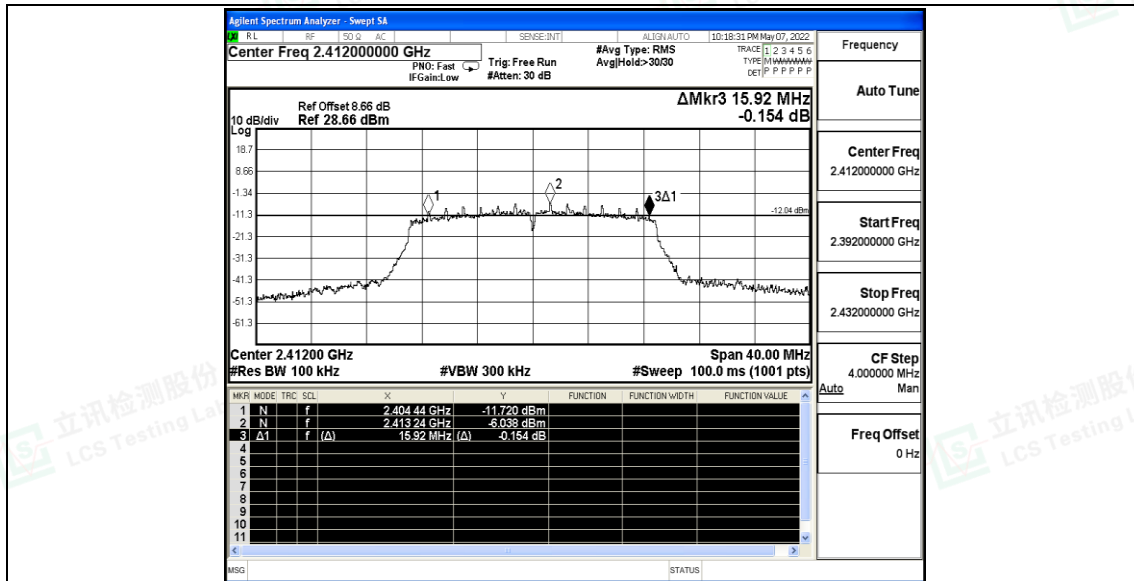


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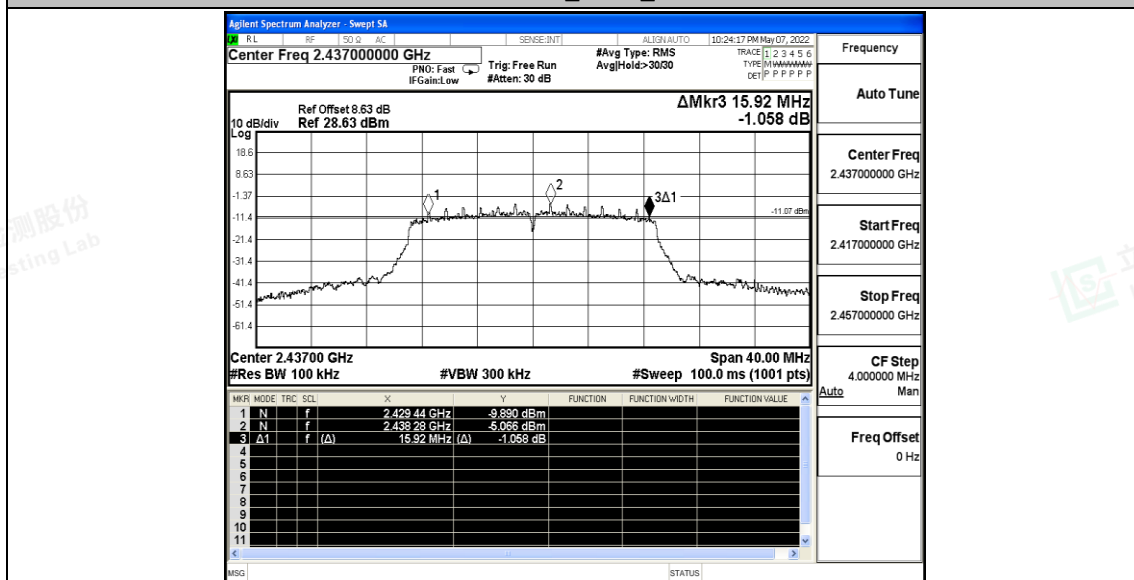
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11N20SISO_Ant B_2437



11N20SISO_Ant B_2462

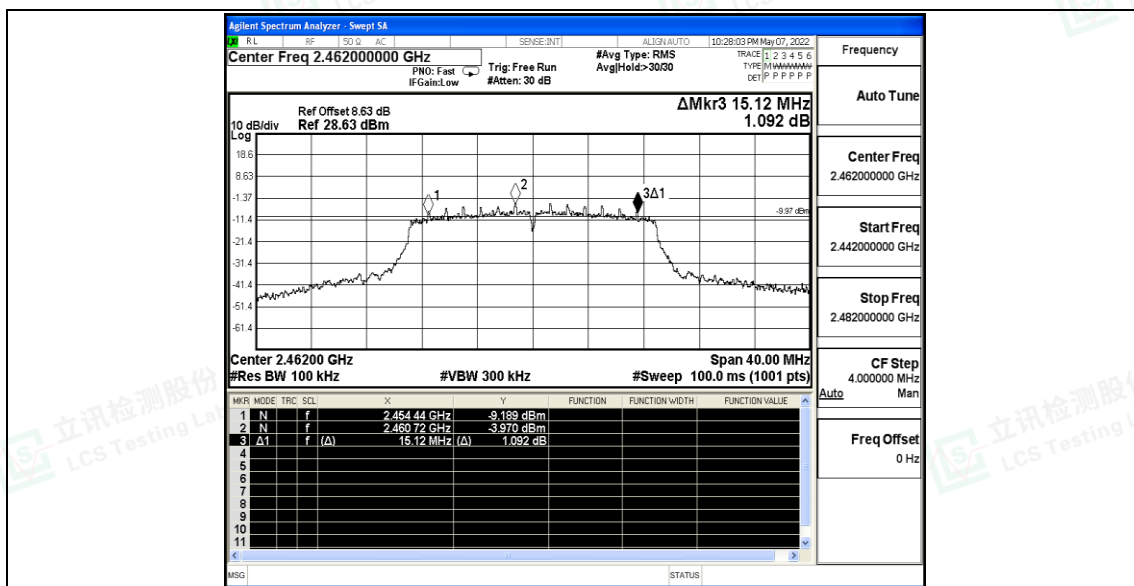


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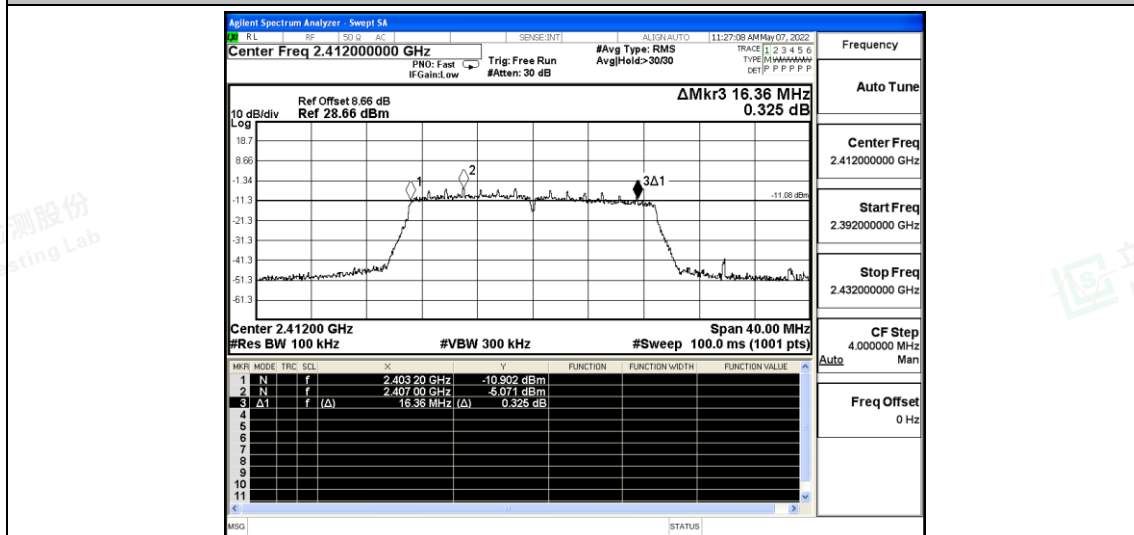
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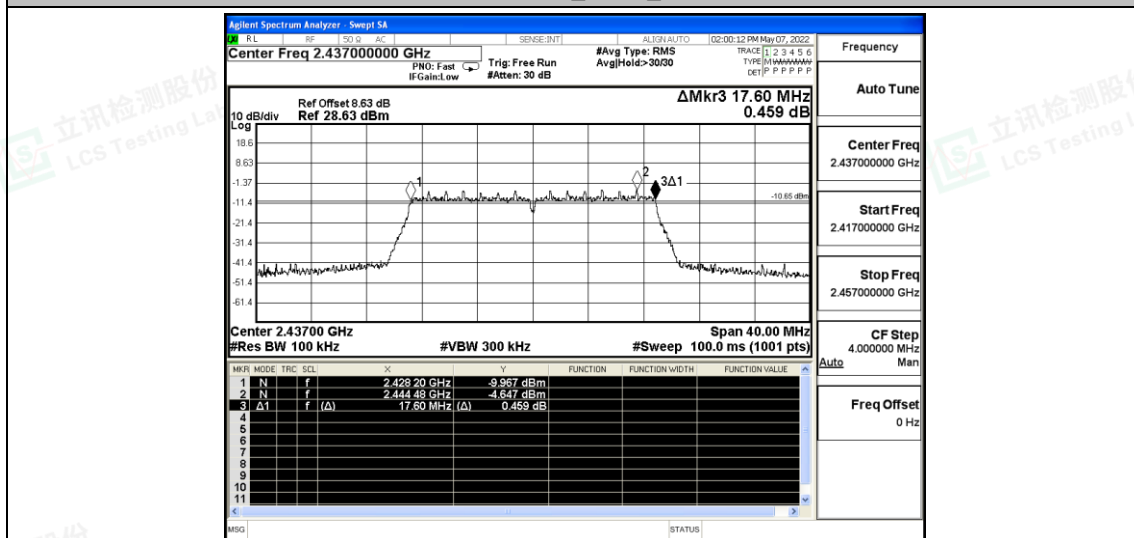
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11AX20SISO_Ant B_2412



11AX20SISO_Ant B_2437

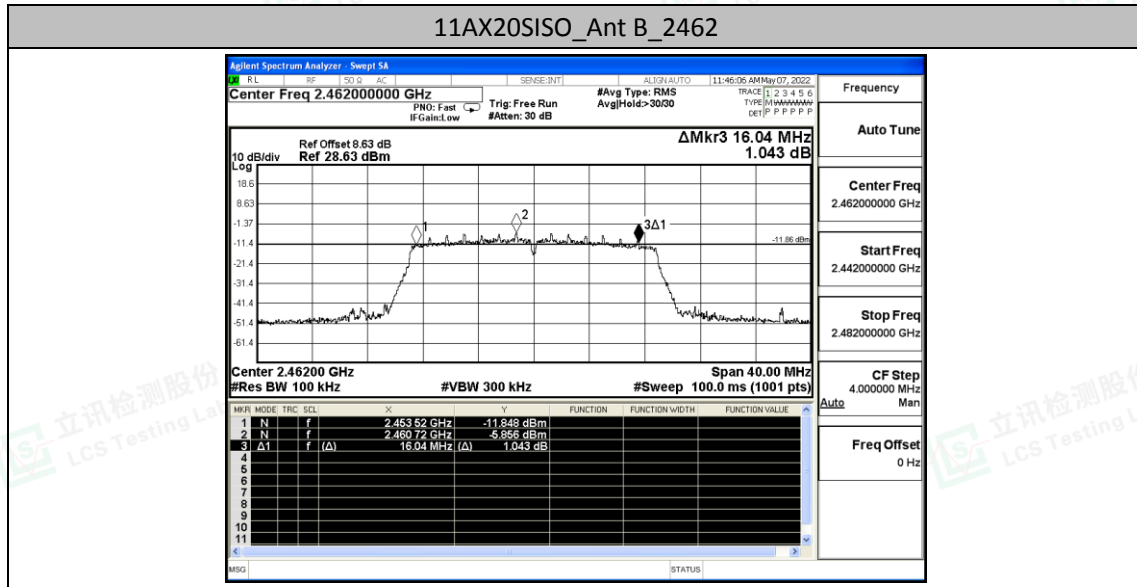


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C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Frequency (MHz)	Result[dBm]	Limit[dBm]	Verdict
11B	Ant A	2412	13.41	≤30.00	PASS
		2437	14.70	≤30.00	PASS
		2462	15.52	≤30.00	PASS
11G	Ant A	2412	15.53	≤30.00	PASS
		2437	16.92	≤30.00	PASS
		2462	17.82	≤30.00	PASS
11N20SISO	Ant A	2412	16.39	≤30.00	PASS
		2437	17.80	≤30.00	PASS
		2462	17.77	≤30.00	PASS
11AX20SISO	Ant A	2412	8.38	≤30.00	PASS
		2437	8.73	≤30.00	PASS
		2462	8.56	≤30.00	PASS
11B	Ant B	2412	11.96	≤30.00	PASS
		2437	13.87	≤30.00	PASS
		2462	14.91	≤30.00	PASS
11G	Ant B	2412	12.39	≤30.00	PASS
		2437	13.47	≤30.00	PASS
		2462	14.55	≤30.00	PASS
11N20SISO	Ant B	2412	12.40	≤30.00	PASS
		2437	13.44	≤30.00	PASS
		2462	14.52	≤30.00	PASS
11AX20SISO	Ant B	2412	8.15	≤30.00	PASS
		2437	8.42	≤30.00	PASS
		2462	8.37	≤30.00	PASS

Ant A+B

Mode	Channel	ANT A [dBm]	ANT B [dBm]	MIMO [dBm]	Limit [dBm]	Verdict
11N20SISO	LCH	16.39	12.40	17.85	29.54	PASS
	MCH	17.80	13.44	19.16	29.54	PASS
	HCH	17.77	14.52	19.45	29.54	PASS
11AX20SISO	LCH	8.38	8.15	11.28	29.54	PASS
	MCH	8.73	8.42	11.59	29.54	PASS
	HCH	8.56	8.37	11.48	29.54	PASS



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C.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant A	2412	-13.75	≤8.00	PASS
		2437	-12.78	≤8.00	PASS
		2462	-11.88	≤8.00	PASS
11G	Ant A	2412	-19.14	≤8.00	PASS
		2437	-16.86	≤8.00	PASS
		2462	-15.55	≤8.00	PASS
11N20SISO	Ant A	2412	-17.63	≤8.00	PASS
		2437	-16.36	≤8.00	PASS
		2462	-16.64	≤8.00	PASS
11AX20SISO	Ant A	2412	-23.77	≤8.00	PASS
		2437	-22.23	≤8.00	PASS
		2462	-23.09	≤8.00	PASS
11B	Ant B	2412	-15.66	≤8.00	PASS
		2437	-14.38	≤8.00	PASS
		2462	-13.4	≤8.00	PASS
11G	Ant B	2412	-21.22	≤8.00	PASS
		2437	-21.69	≤8.00	PASS
		2462	-19.98	≤8.00	PASS
11N20SISO	Ant B	2412	-13.29	≤8.00	PASS
		2437	-11.75	≤8.00	PASS
		2462	-16.59	≤8.00	PASS
11AX20SISO	Ant B	2412	-22.11	≤8.00	PASS
		2437	-20.34	≤8.00	PASS
		2462	-19.88	≤8.00	PASS

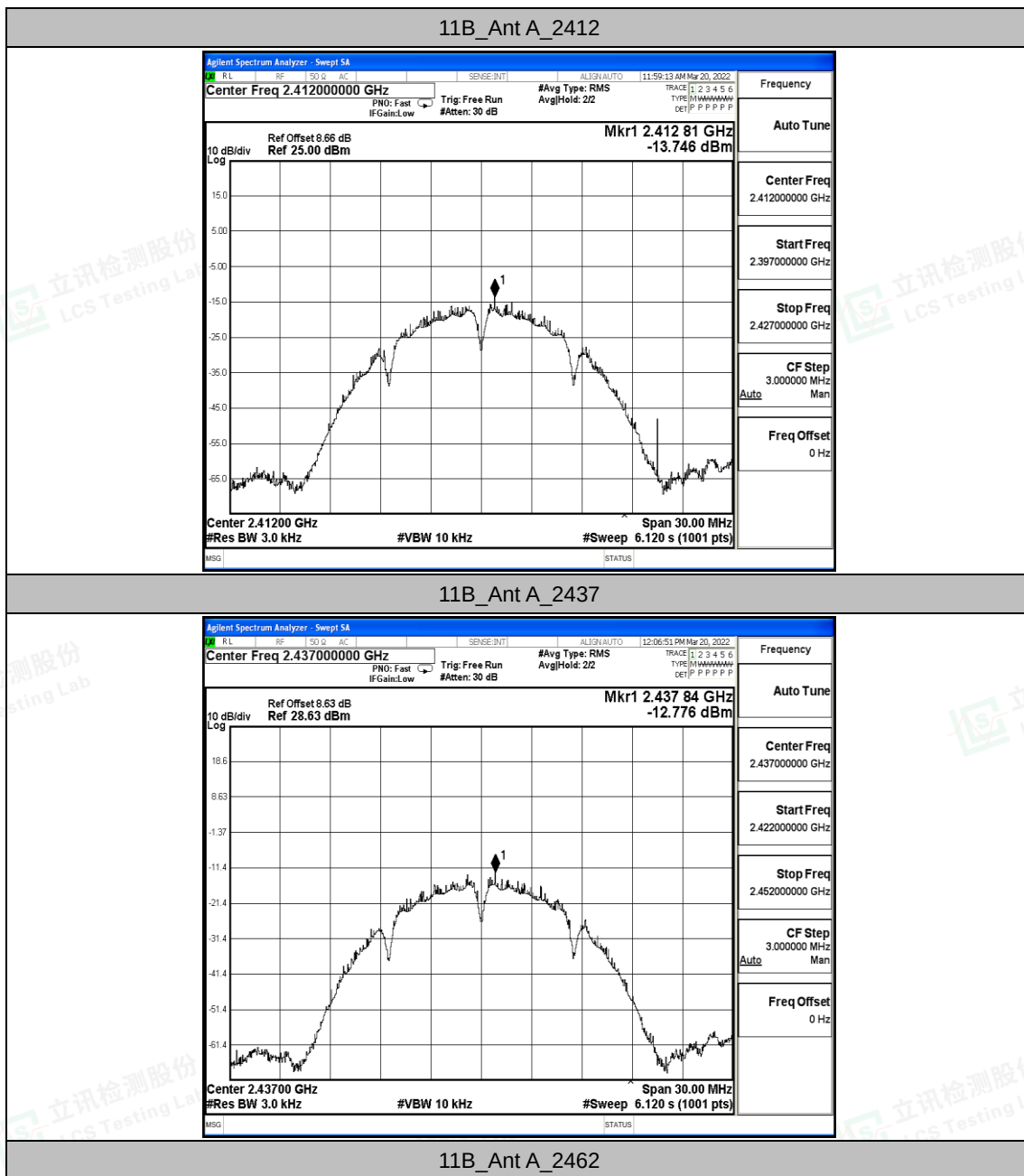
Ant A+B

Mode	Channel	ANT A [dBm/3KHz]	ANT B [dBm/3KHz]	ANT A+B [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11N20SISO	LCH	-17.63	-13.29	-11.93	7.54	PASS
	MCH	-16.36	-11.75	-10.46	7.54	PASS
	HCH	-16.64	-16.59	-13.60	7.54	PASS
11AX20SISO	LCH	-23.77	-22.11	-19.85	7.54	PASS
	MCH	-22.23	-20.34	-18.17	7.54	PASS
	HCH	-23.09	-19.88	-18.18	7.54	PASS





Test Graphs

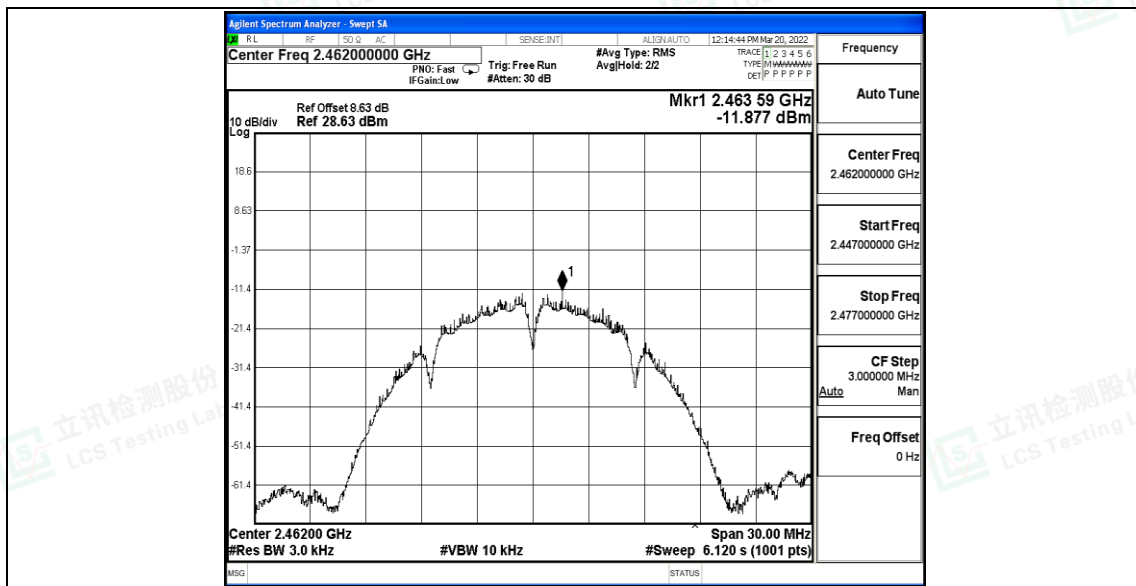


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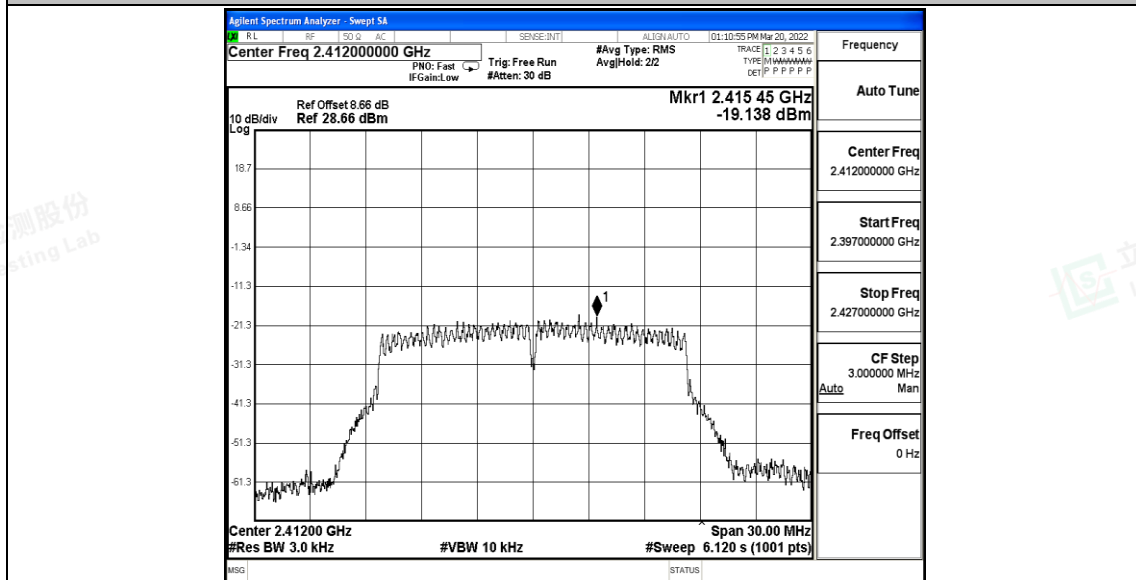
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11G_Ant A_2412



11G_Ant A_2437

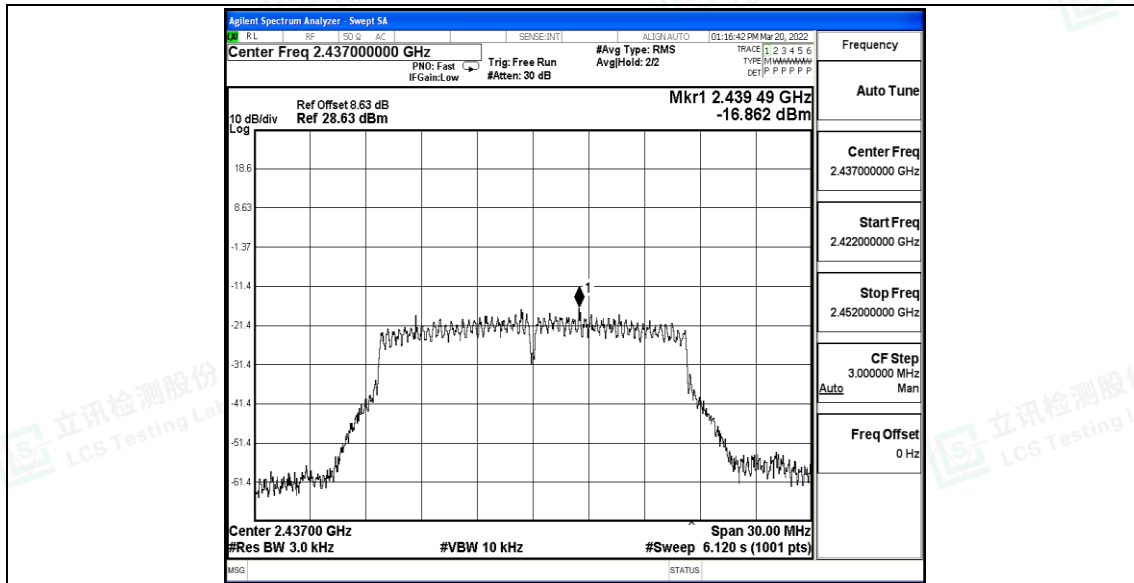


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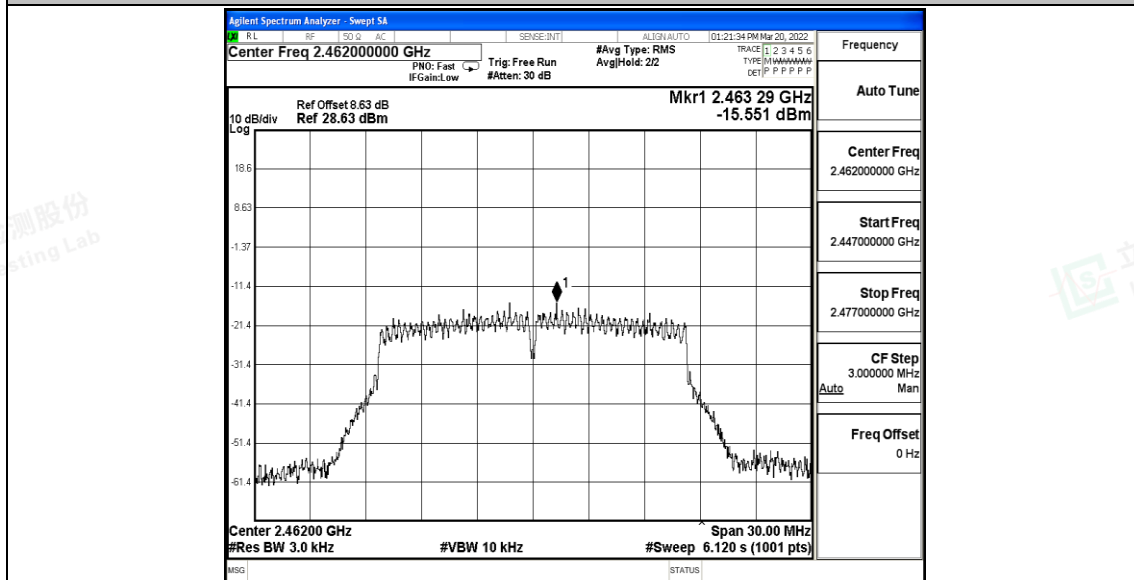
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11G_Ant A_2462



11N20SISO_Ant A_2412

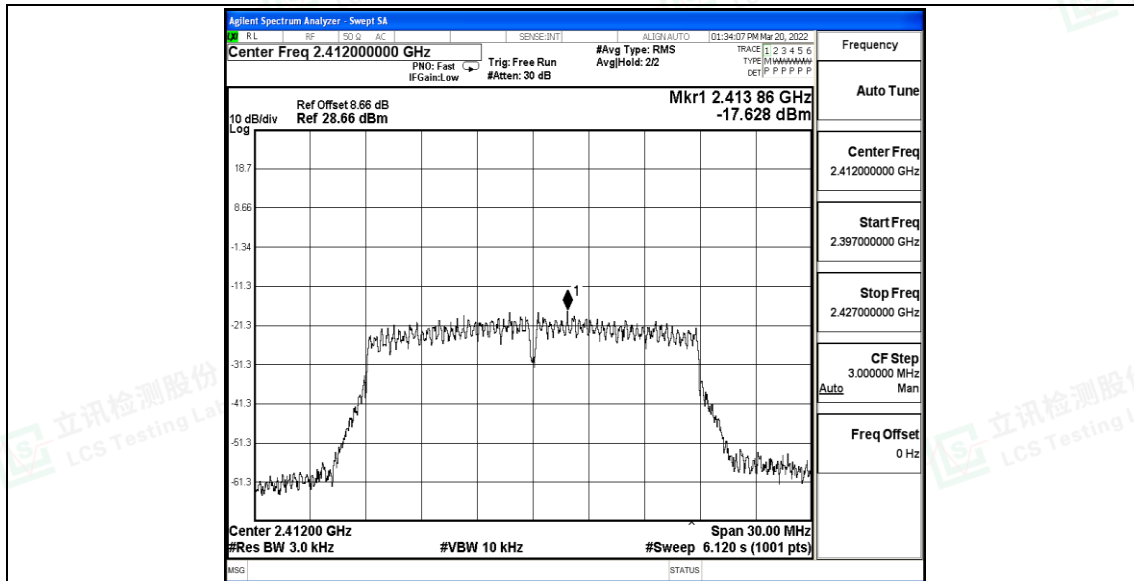


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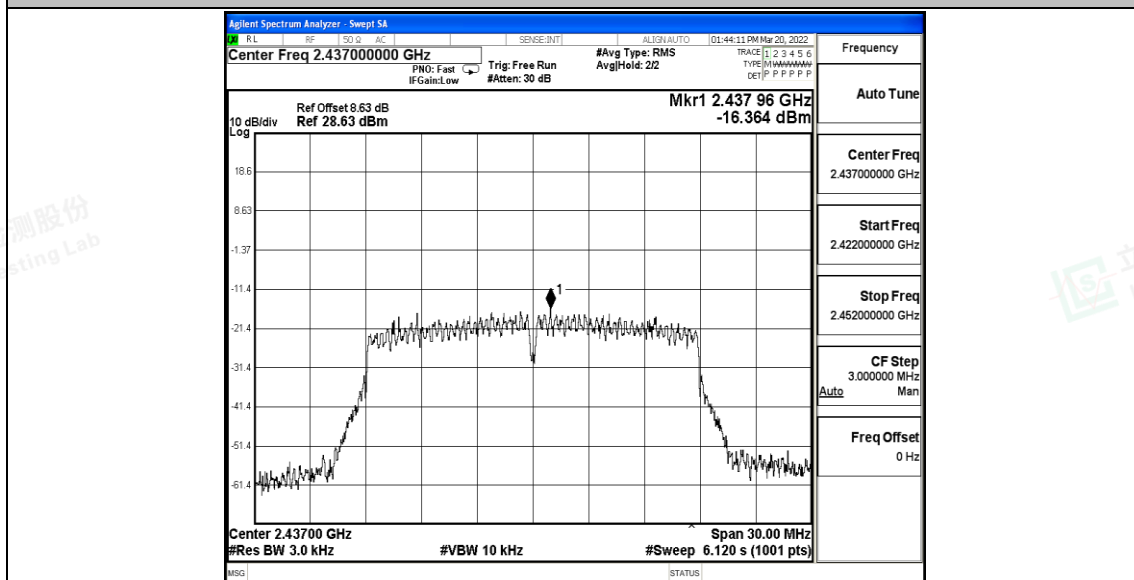
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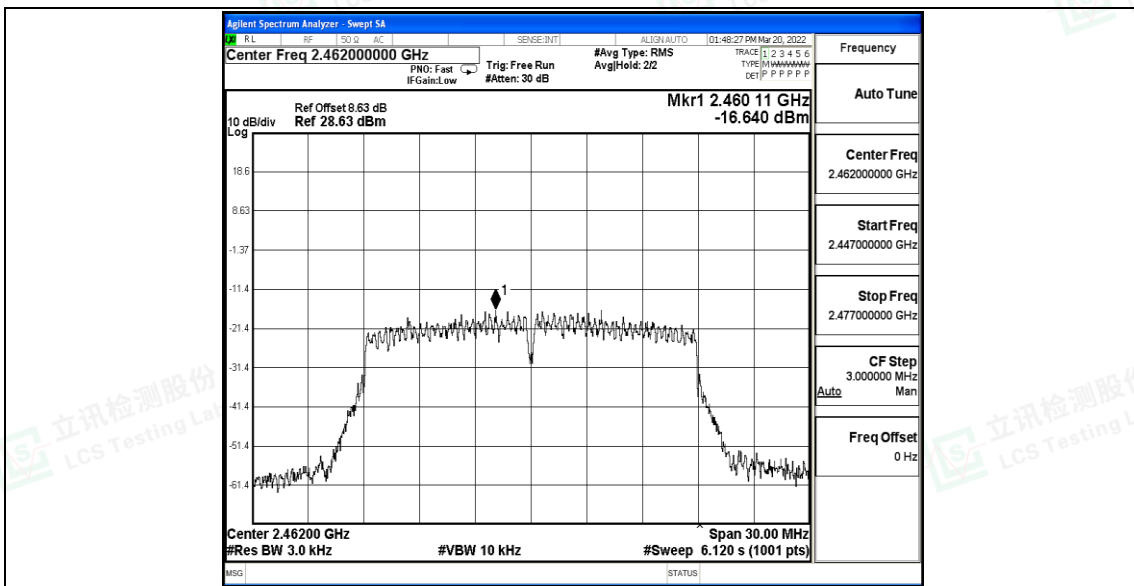


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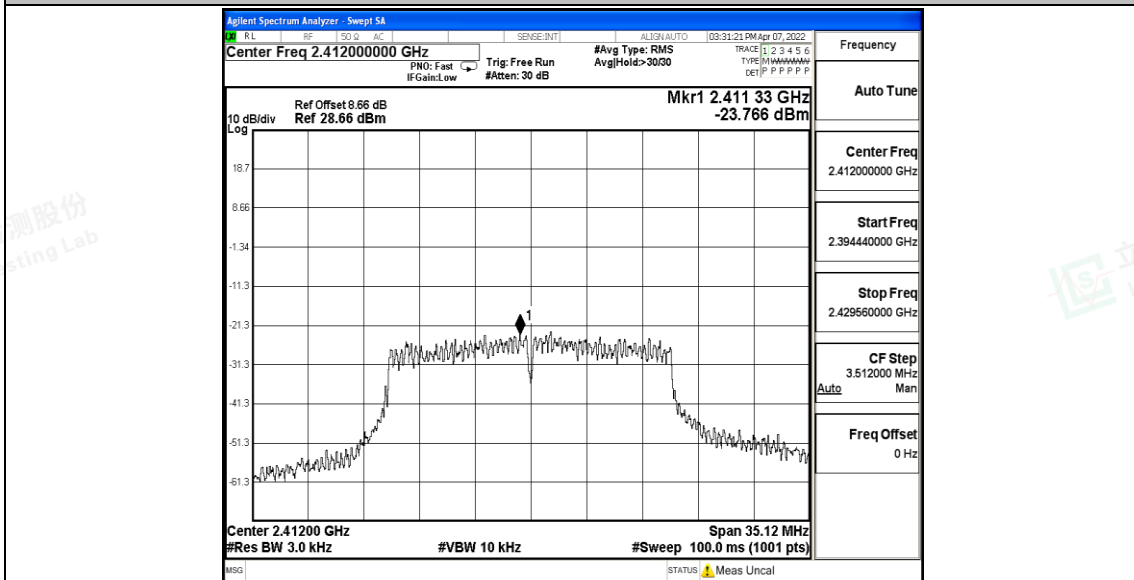


11N20SISO_Ant A_2462





11AX20SISO_Ant A_2412



11AX20SISO_Ant A_2437

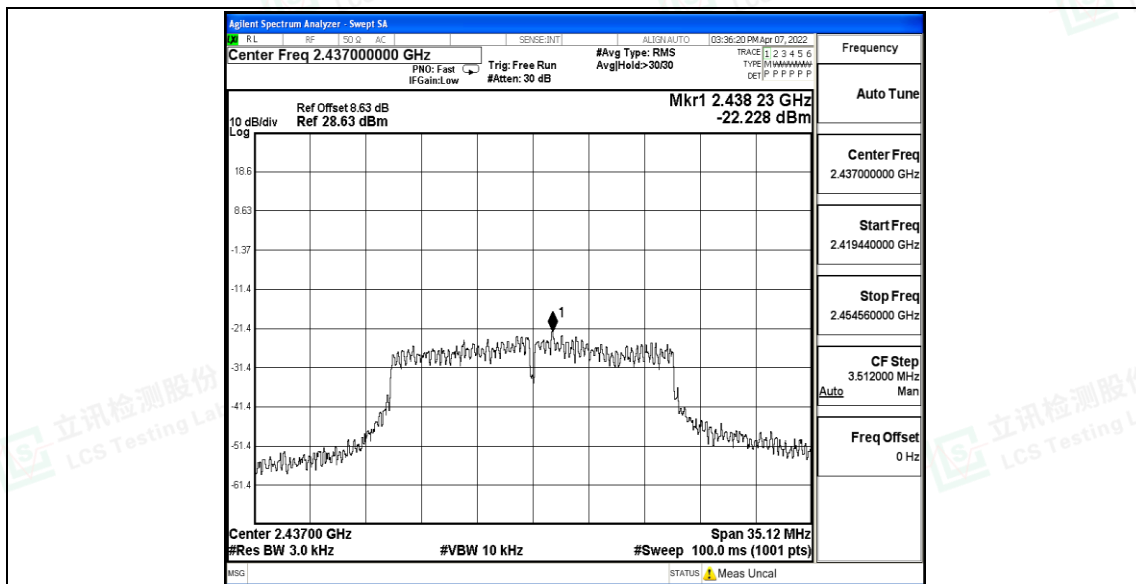


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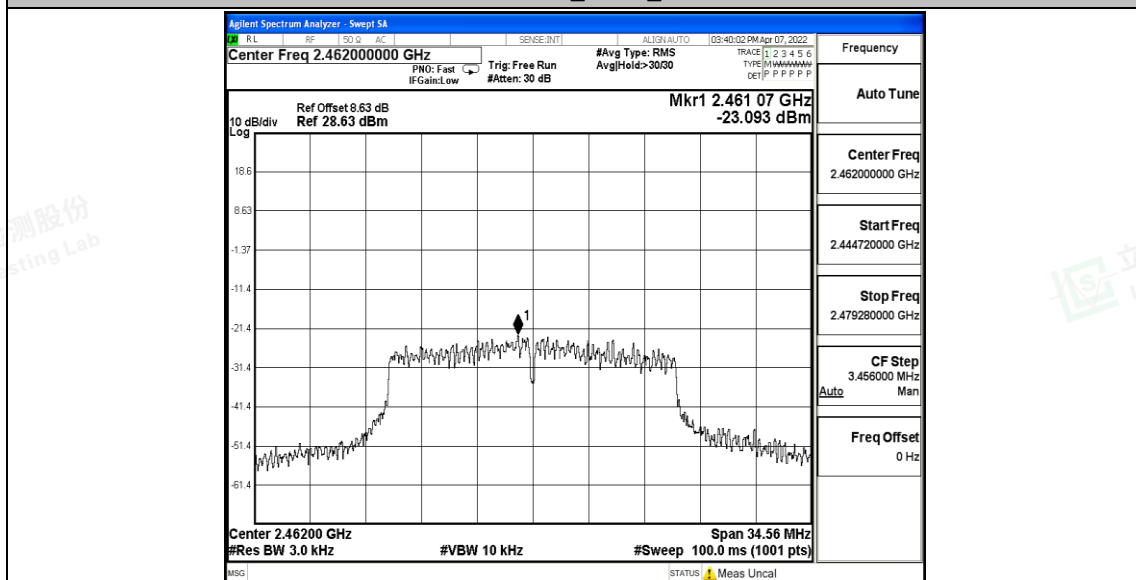
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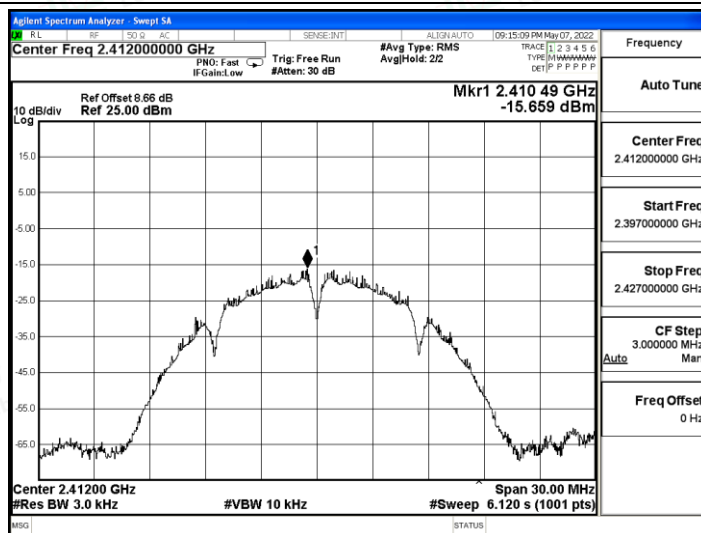


11AX20SISO_Ant A_2462

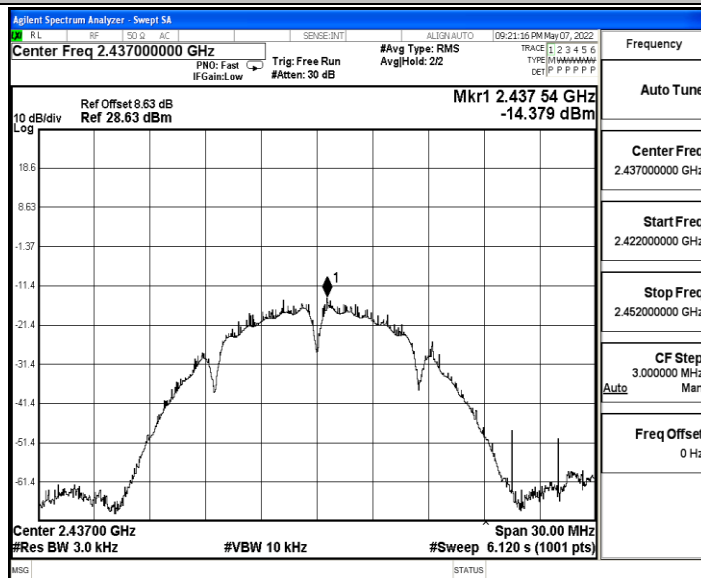


11B_Ant B_2412





11B_Ant B_2437



11B_Ant B_2462

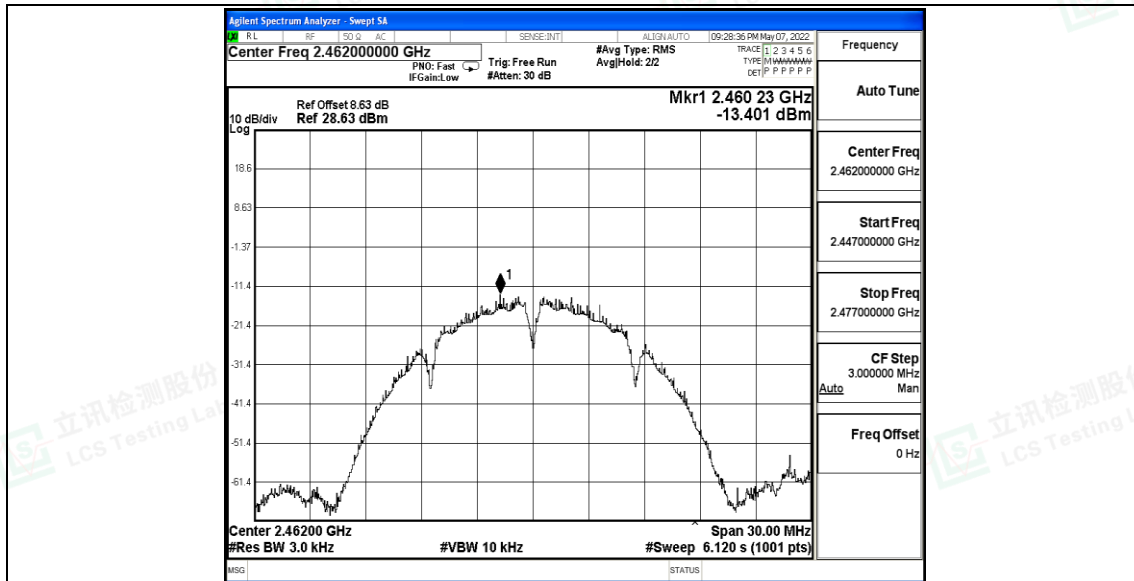


Shenzhen LCS Compliance Testing Laboratory Ltd.

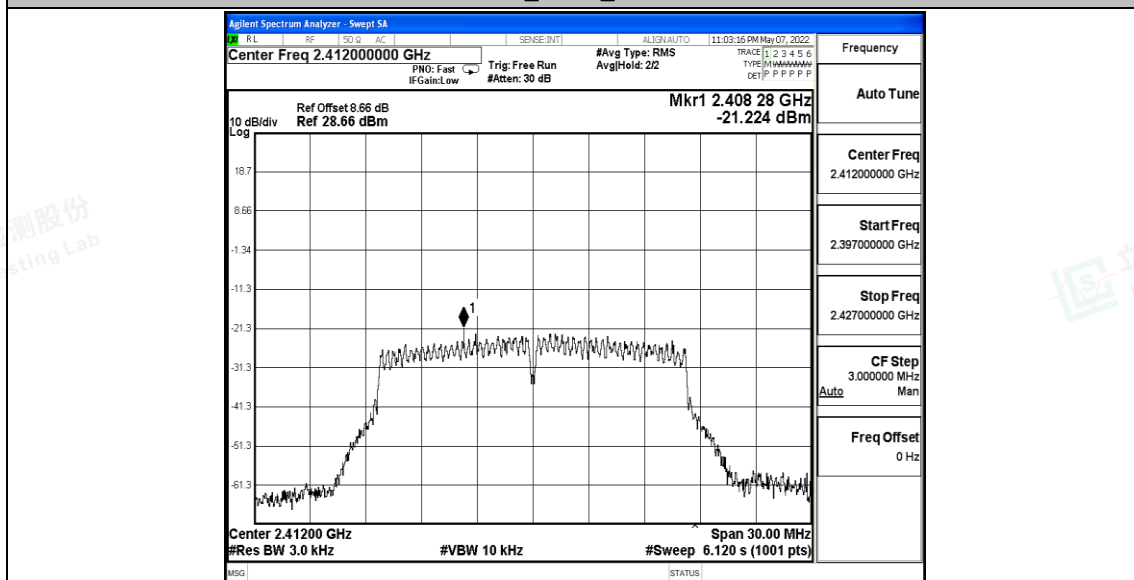
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Scan code to check authenticity

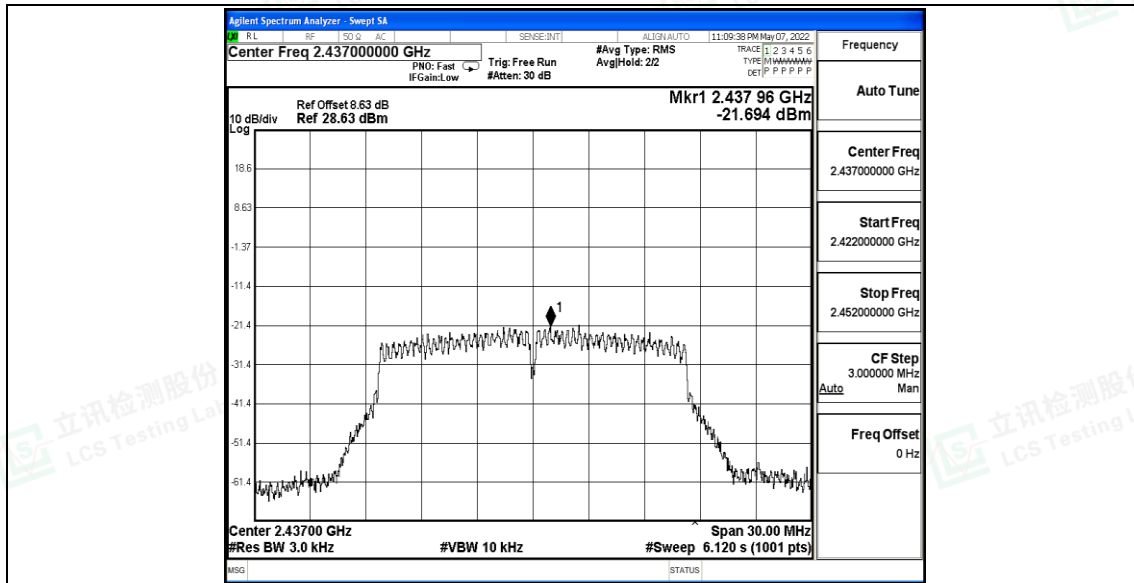


11G_Ant B_2412

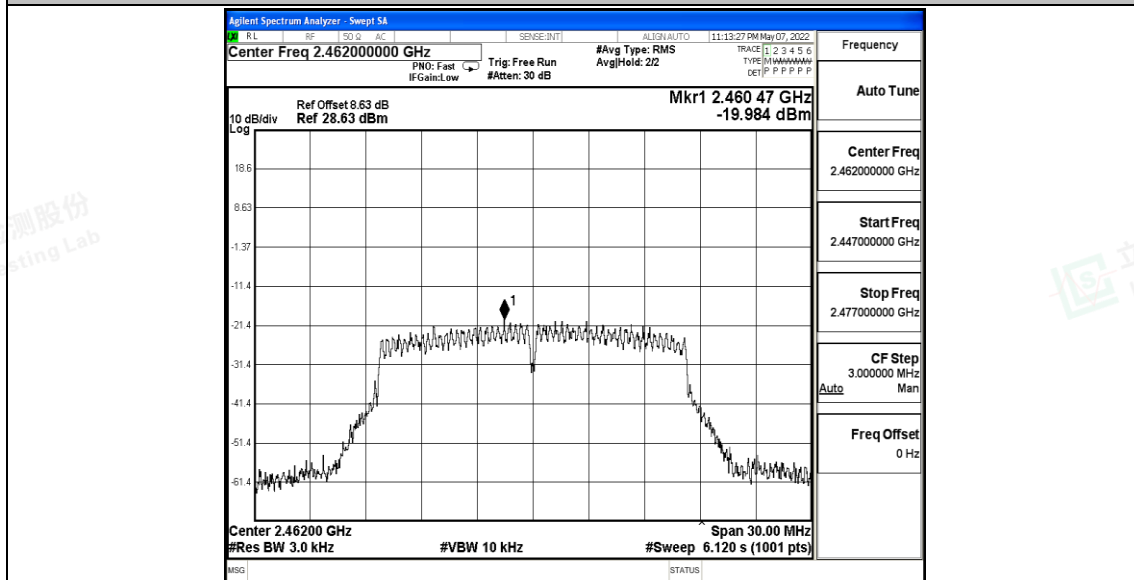


11G_Ant B_2437





11G_Ant B_2462



11N20SISO_Ant B_2412

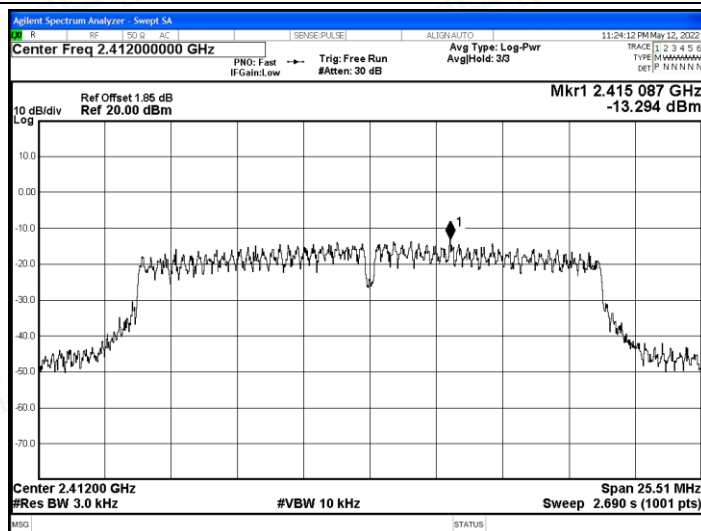


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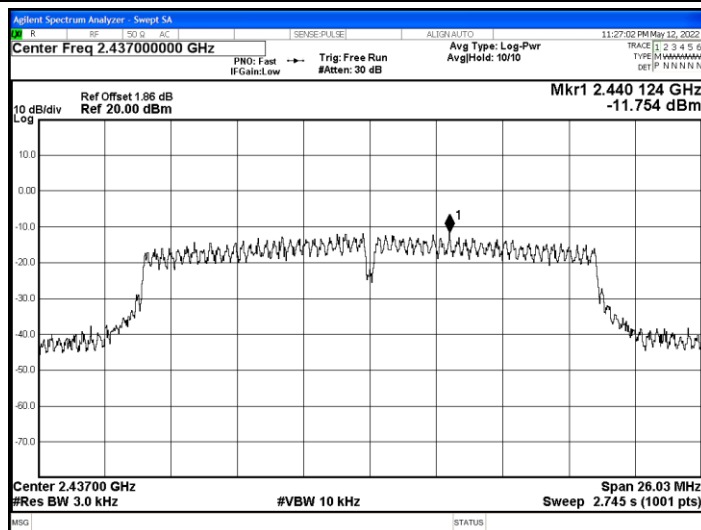
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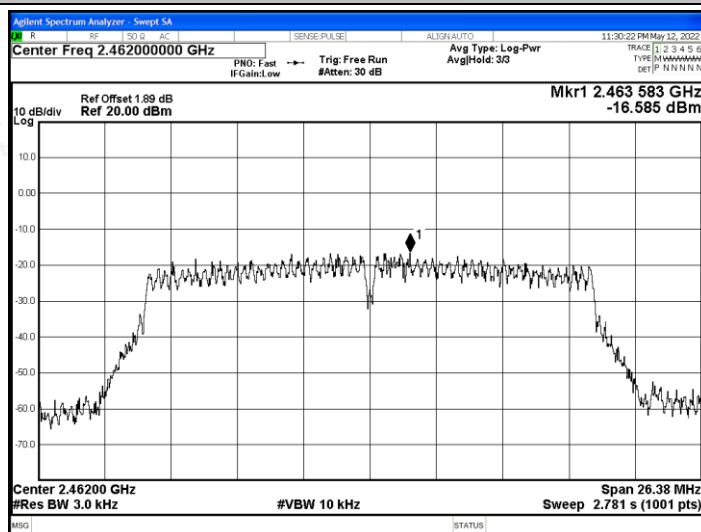
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11N20SISO_Ant B_2437

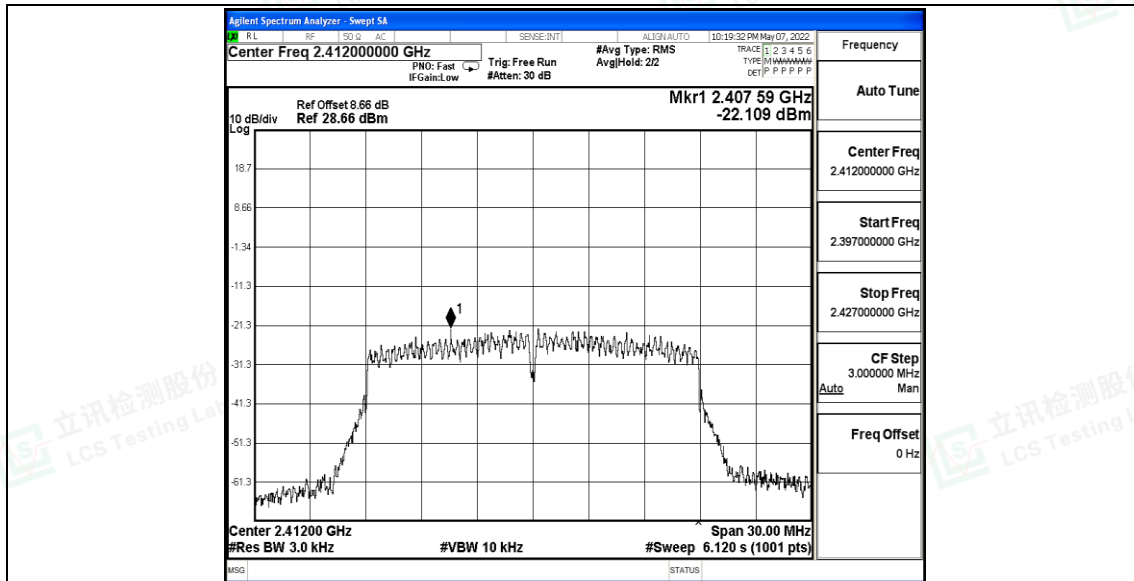


11N20SISO_Ant B_2462

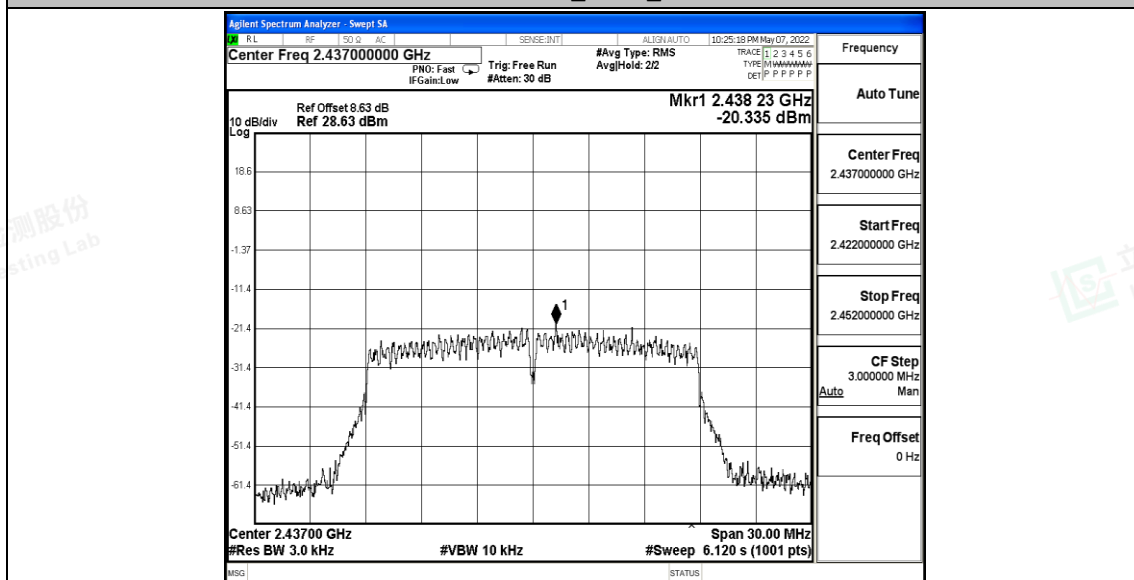


11AX20SISO_Ant B_2412



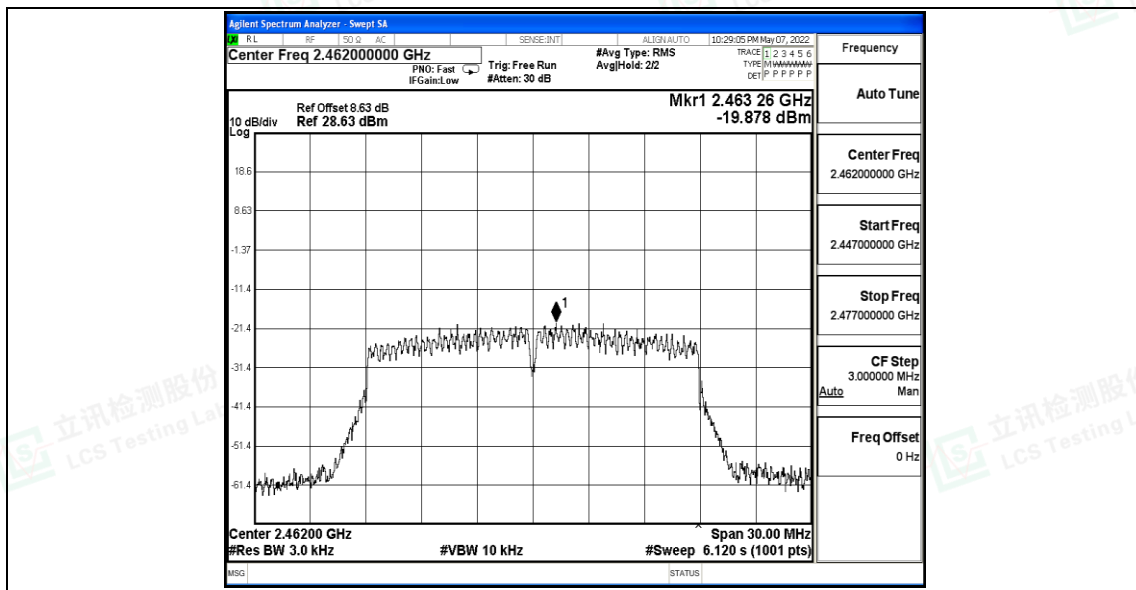


11AX20SISO_Ant B_2437



11AX20SISO_Ant B_2462







C.4 Band edge measurements

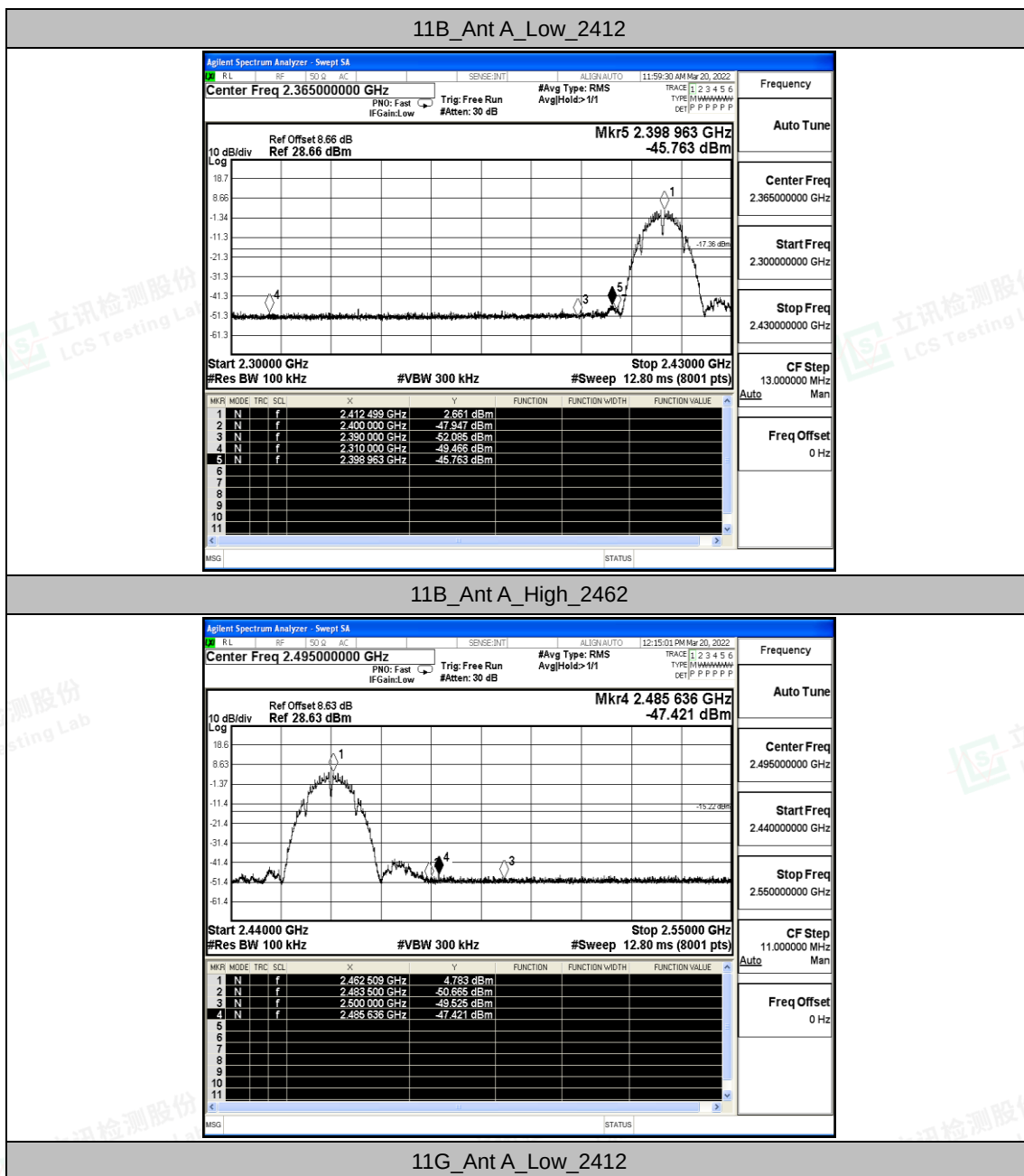
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant A	Low	2412	2.64	-45.76	≤ -17.36	PASS
		High	2462	4.78	-47.42	≤ -15.22	PASS
11G	Ant A	Low	2412	-2.50	-42.02	≤ -22.5	PASS
		High	2462	-0.27	-41.82	≤ -20.27	PASS
11N20SISO	Ant A	Low	2412	-1.45	-38.44	≤ -21.45	PASS
		High	2462	-0.23	-41.59	≤ -20.23	PASS
11AX20SISO	Ant A	Low	2412	-10.88	-37.25	≤ -30.88	PASS
		High	2462	-10.65	-41.22	≤ -30.65	PASS
11B	Ant B	Low	2412	1.18	-47.1	≤ -18.82	PASS
		High	2462	4.17	-47.63	≤ -15.83	PASS
11G	Ant B	Low	2412	-5.81	-42.71	≤ -25.81	PASS
		High	2462	-3.48	-43.1	≤ -23.48	PASS
11N20SISO	Ant B	Low	2412	-5.92	-42.02	≤ -25.92	PASS
		High	2462	-3.96	-43.33	≤ -23.96	PASS
11AX20SISO	Ant B	Low	2412	-5.03	-43.89	≤ -25.03	PASS
		High	2462	-5.90	-48.08	≤ -25.9	PASS





Test Graphs

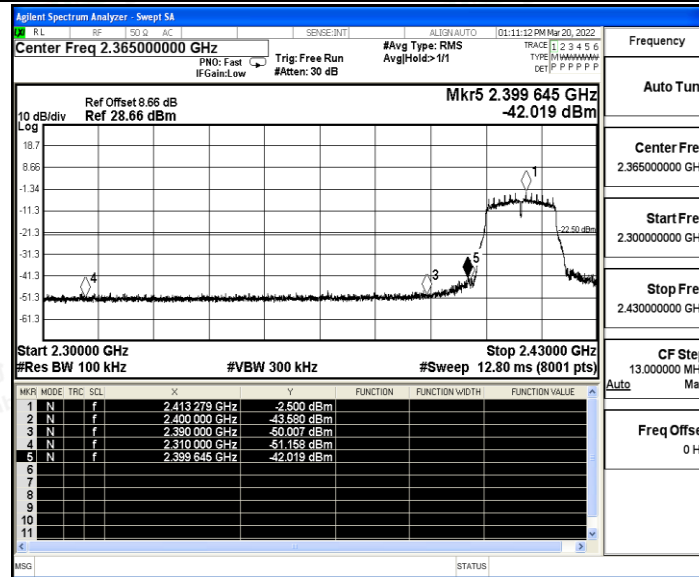


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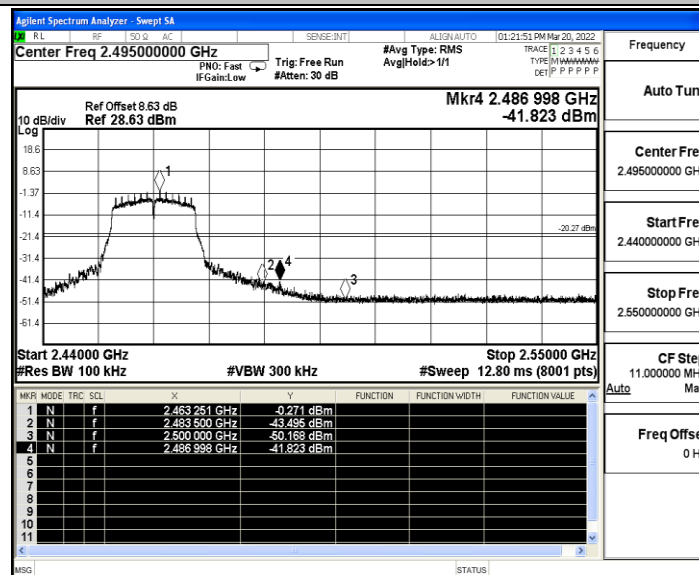
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11G_Ant A_High_2462



11N20SISO_Ant A_Low_2412

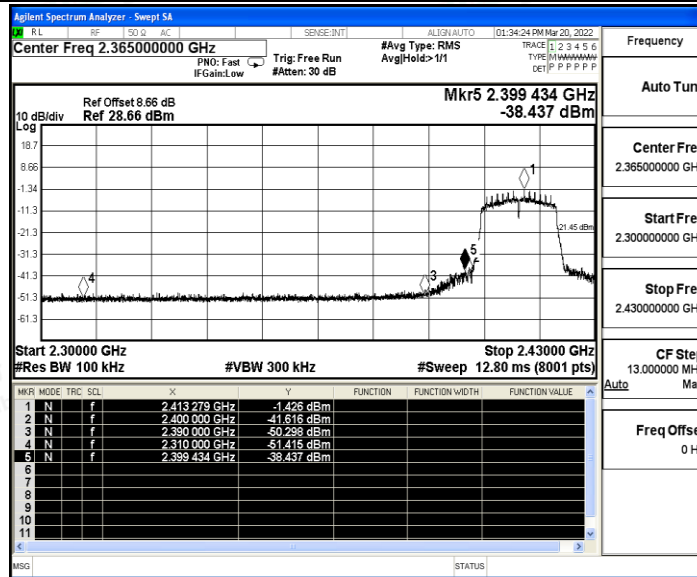


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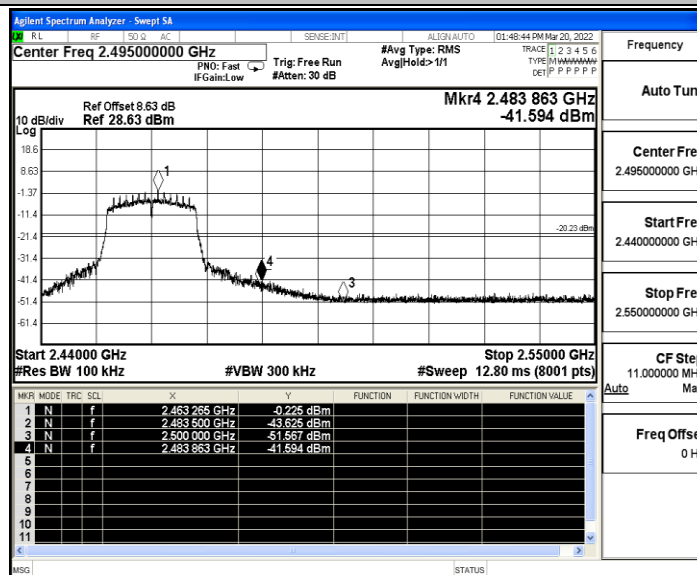
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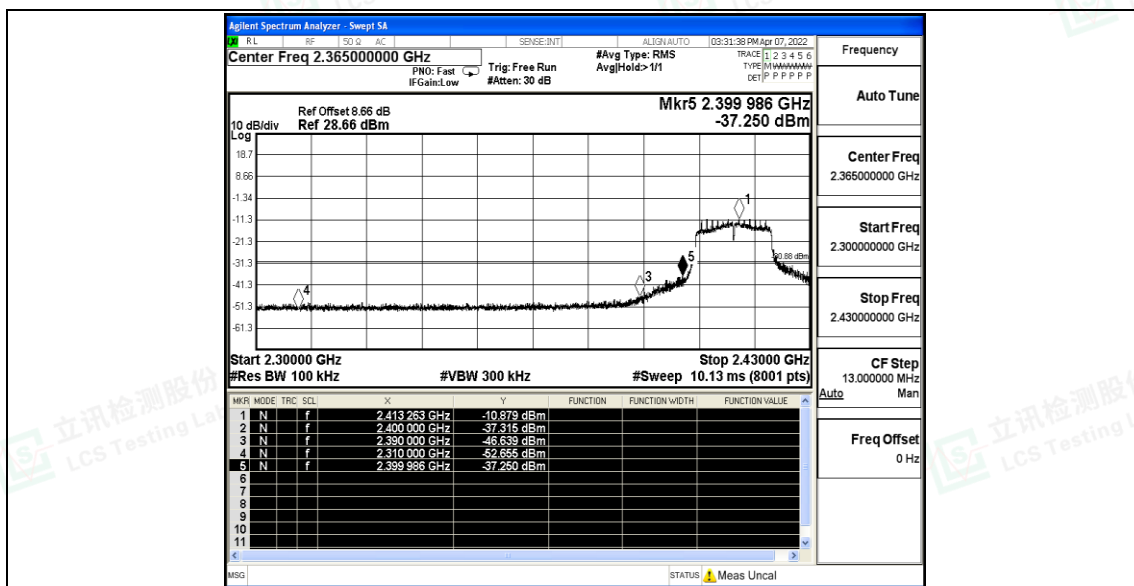


11N20SISO_Ant A_High_2462

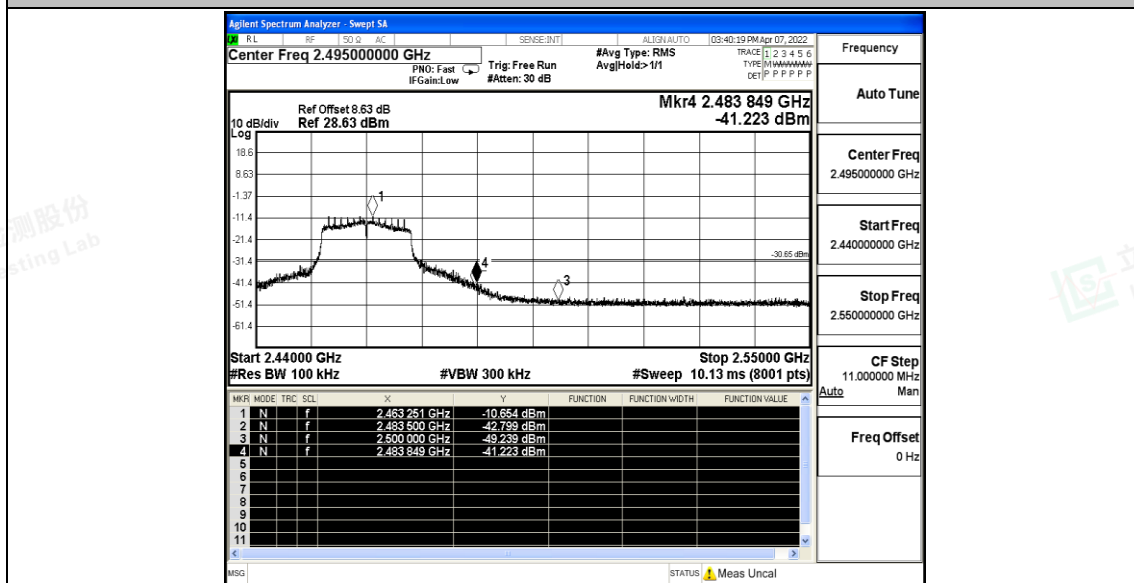


11AX20SISO_Ant A_Low_2412





11AX20SISO_Ant A_High_2462



11B_Ant B_Low_2412

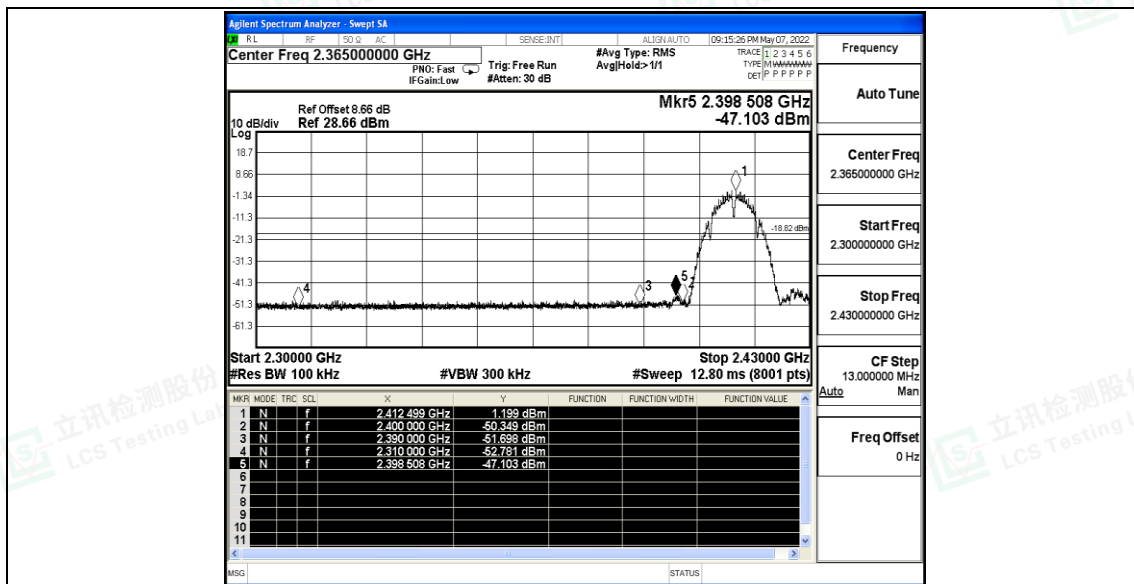


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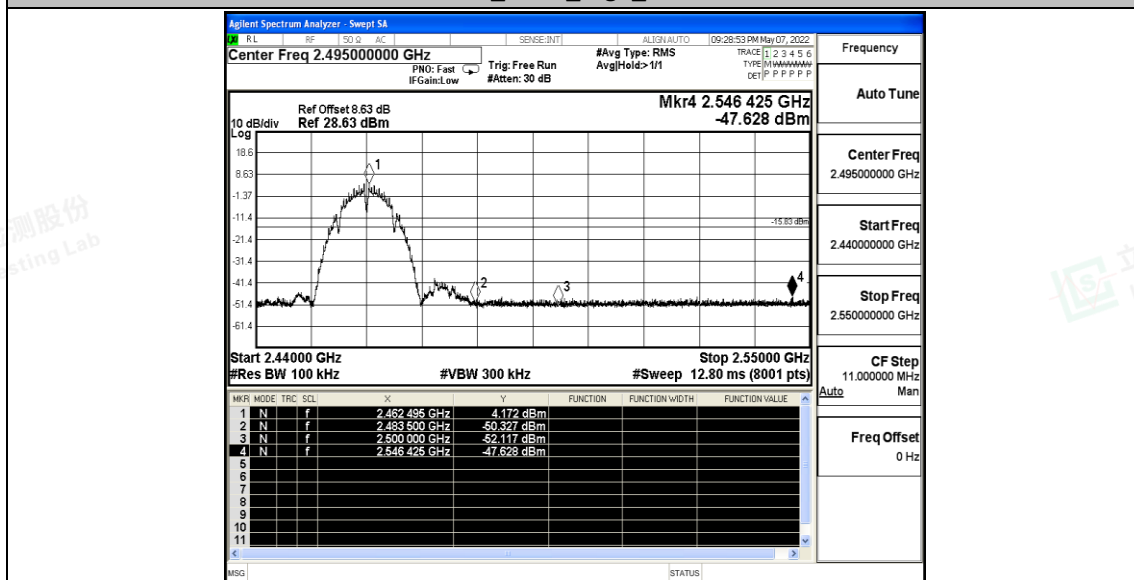
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11B_Ant B_High_2462



11G_Ant B_Low_2412

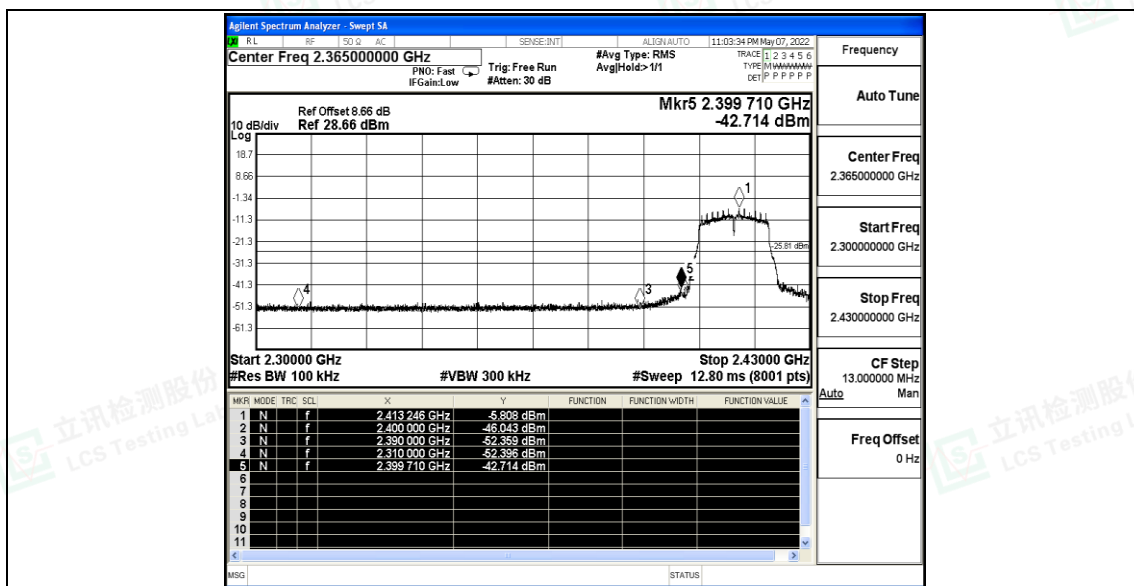


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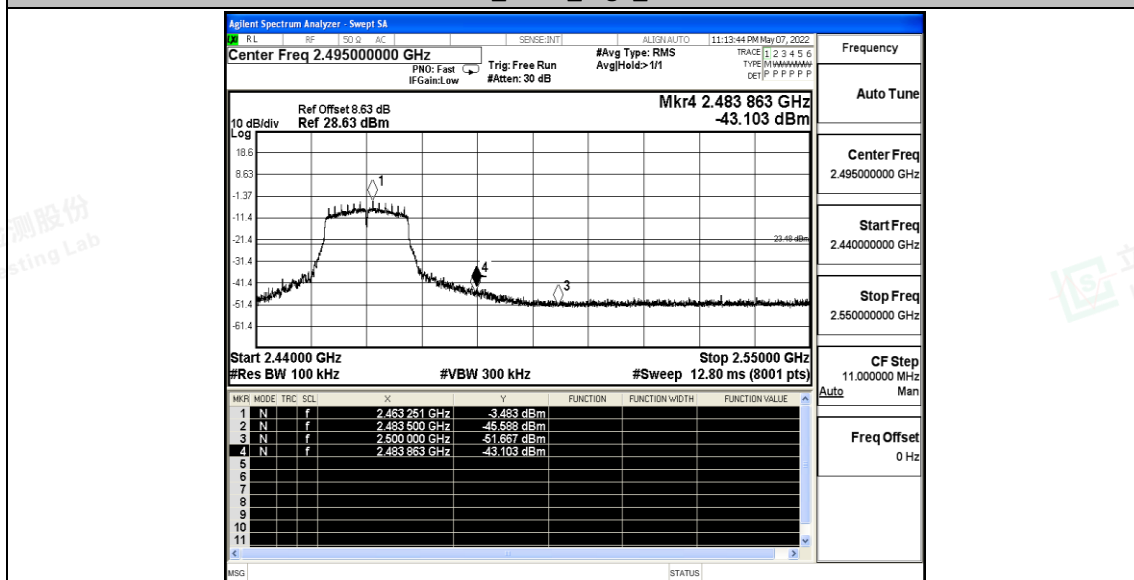
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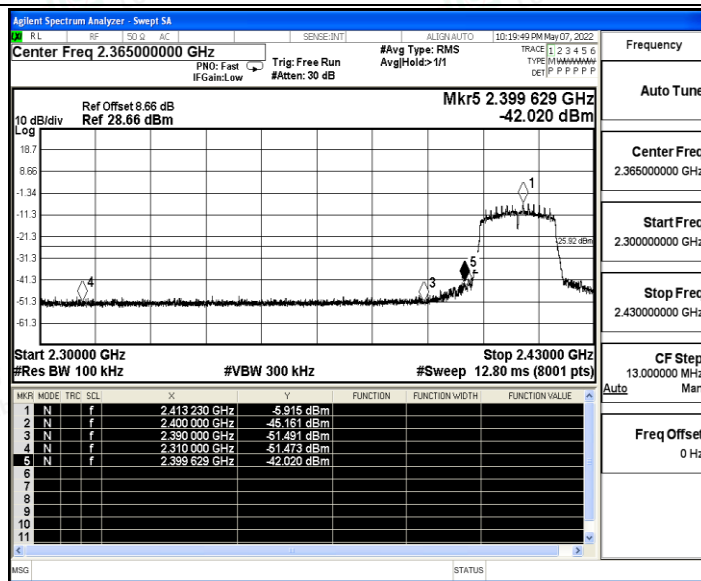


11G_Ant B_High_2462

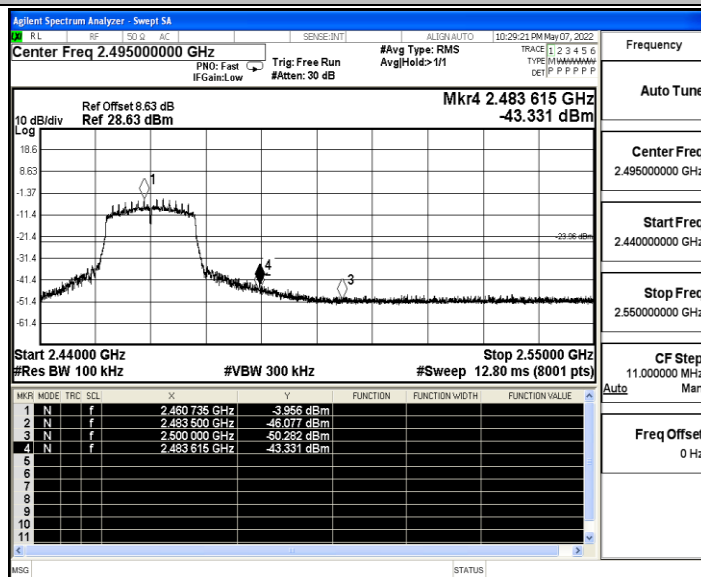


11N20SISO_Ant B_Low_2412





11N20SISO_Ant B_High_2462



11AX20SISO_Ant B_Low_2412

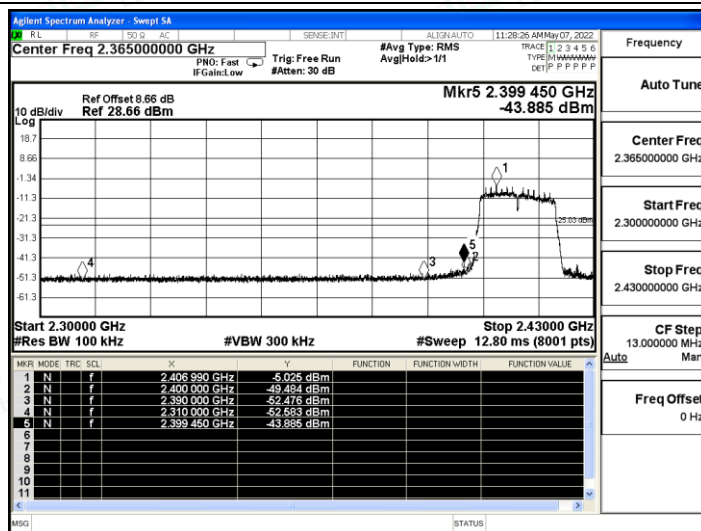


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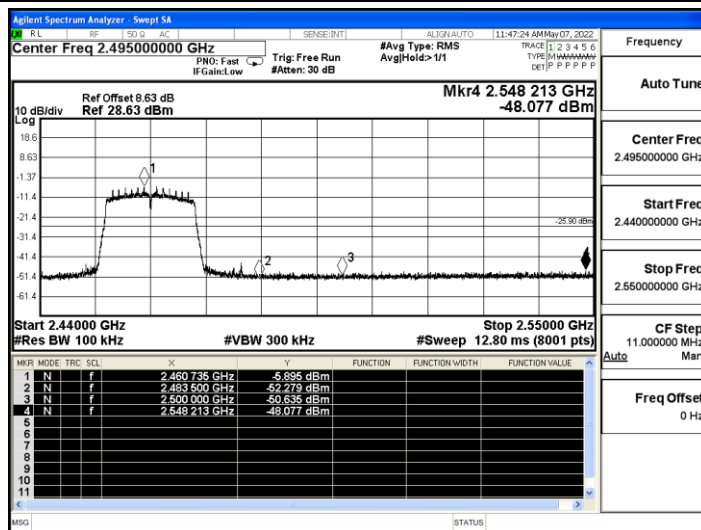
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11AX20SISO_Ant B_High_2462



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C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant A	2412	Reference	2.52	2.52	---	PASS
			30~1000	2.52	-57.82	≤-17.48	PASS
			1000~26500	2.52	-39.52	≤-17.48	PASS
		2437	Reference	3.96	3.96	---	PASS
			30~1000	3.96	-57.49	≤-16.04	PASS
			1000~26500	3.96	-38.95	≤-16.04	PASS
		2462	Reference	4.77	4.77	---	PASS
			30~1000	4.77	-57.99	≤-15.23	PASS
			1000~26500	4.77	-39.32	≤-15.23	PASS
11G	Ant A	2412	Reference	-2.57	-2.57	---	PASS
			30~1000	-2.57	-55.82	≤-22.57	PASS
			1000~26500	-2.57	-45.37	≤-22.57	PASS
		2437	Reference	-1.62	-1.62	---	PASS
			30~1000	-1.62	-54.99	≤-21.62	PASS
			1000~26500	-1.62	-44.78	≤-21.62	PASS
		2462	Reference	-0.12	-0.12	---	PASS
			30~1000	-0.12	-52.61	≤-20.12	PASS
			1000~26500	-0.12	-44.24	≤-20.12	PASS
11N20SISO	Ant A	2412	Reference	-1.69	-1.69	---	PASS
			30~1000	-1.69	-55.21	≤-21.69	PASS
			1000~26500	-1.69	-45.65	≤-21.69	PASS
		2437	Reference	-0.15	-0.15	---	PASS
			30~1000	-0.15	-54.3	≤-20.15	PASS
			1000~26500	-0.15	-46.09	≤-20.15	PASS
		2462	Reference	-0.83	-0.83	---	PASS
			30~1000	-0.83	-54.42	≤-20.83	PASS
			1000~26500	-0.83	-45.77	≤-20.83	PASS
11AX20SISO	Ant A	2412	Reference	-10.59	-10.59	---	PASS
			30~1000	-10.59	-54.74	≤-30.59	PASS
			1000~26500	-10.59	-31.15	≤-30.59	PASS
		2437	Reference	-11.01	-11.01	---	PASS
			30~1000	-11.01	-56.28	≤-31.01	PASS
			1000~26500	-11.01	-43.16	≤-31.01	PASS
		2462	Reference	-14.87	-14.87	---	PASS
			30~1000	-14.87	-59.13	≤-34.87	PASS



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			1000~26500	-10.46	-46.31	≤-30.46	PASS
11B	Ant B	2412	Reference	1.21	1.21	---	PASS
			30~1000	1.21	-60.4	≤-18.79	PASS
			1000~26500	1.21	-40.52	≤-18.79	PASS
		2437	Reference	3.08	3.08	---	PASS
			30~1000	3.08	-60.14	≤-16.92	PASS
			1000~26500	3.08	-39.21	≤-16.92	PASS
		2462	Reference	4.15	4.15	---	PASS
			30~1000	4.15	-60.32	≤-15.85	PASS
			1000~26500	4.15	-39.88	≤-15.85	PASS
11G	Ant B	2412	Reference	-5.76	-5.76	---	PASS
			30~1000	-5.76	-50.05	≤-25.76	PASS
			1000~26500	-5.76	-46.68	≤-25.76	PASS
		2437	Reference	-4.49	-4.49	---	PASS
			30~1000	-4.49	-51.34	≤-24.49	PASS
			1000~26500	-4.49	-46.51	≤-24.49	PASS
		2462	Reference	-3.39	-3.39	---	PASS
			30~1000	-3.39	-51.13	≤-23.39	PASS
			1000~26500	-3.39	-46.33	≤-23.39	PASS
11N20SISO	Ant B	2412	Reference	-6.14	-6.14	---	PASS
			30~1000	-6.14	-50.75	≤-26.14	PASS
			1000~26500	-6.14	-45.69	≤-26.14	PASS
		2437	Reference	-4.39	-4.39	---	PASS
			30~1000	-4.39	-51.8	≤-24.39	PASS
			1000~26500	-4.39	-45.47	≤-24.39	PASS
		2462	Reference	-3.97	-3.97	---	PASS
			30~1000	-3.97	-51.68	≤-23.97	PASS
			1000~26500	-3.97	-46.29	≤-23.97	PASS
11AX20SIS O	Ant B	2412	Reference	-5.11	-5.11	---	PASS
			30~1000	-5.11	-45.22	≤-25.11	PASS
			1000~26500	-5.11	-36.44	≤-25.11	PASS
		2437	Reference	-4.31	-4.31	---	PASS
			30~1000	-4.31	-45.66	≤-24.31	PASS
			1000~26500	-4.31	-35.89	≤-24.31	PASS
		2462	Reference	-5.78	-5.78	---	PASS
			30~1000	-5.78	-44.62	≤-25.78	PASS
			1000~26500	-5.78	-42.36	≤-25.78	PASS



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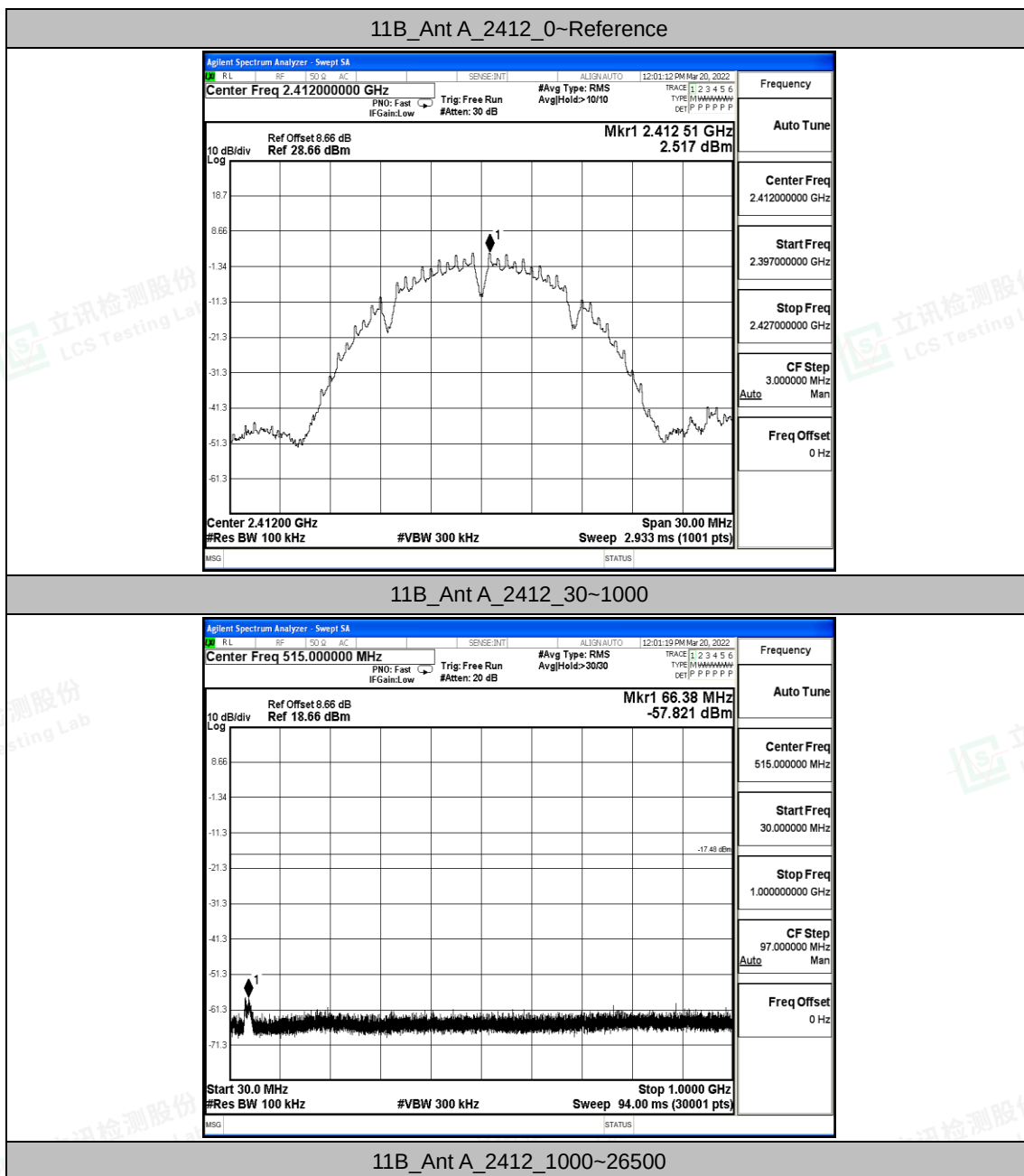
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Test Graphs

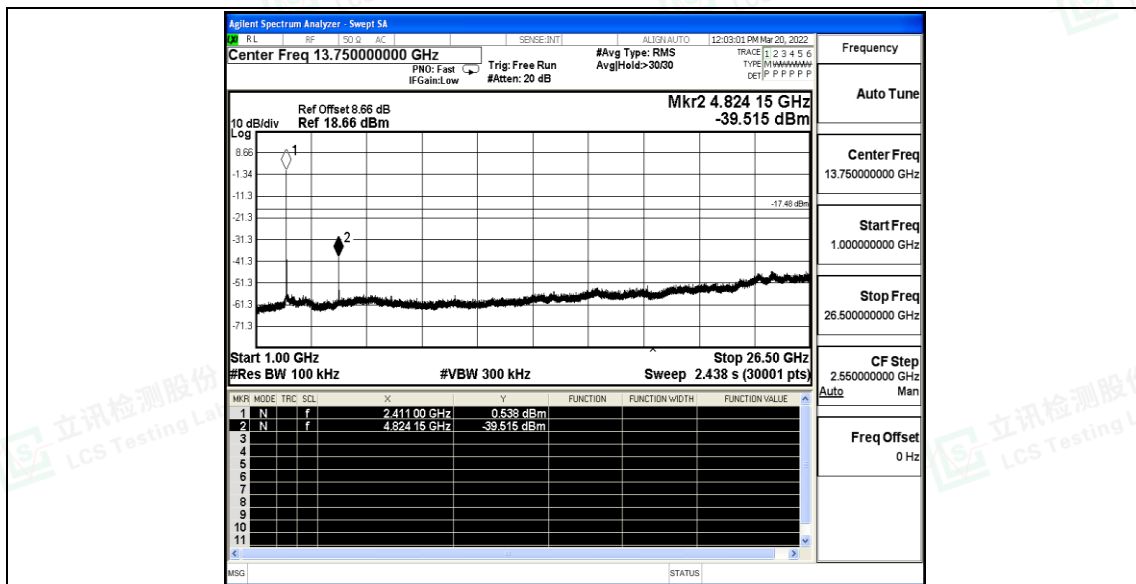


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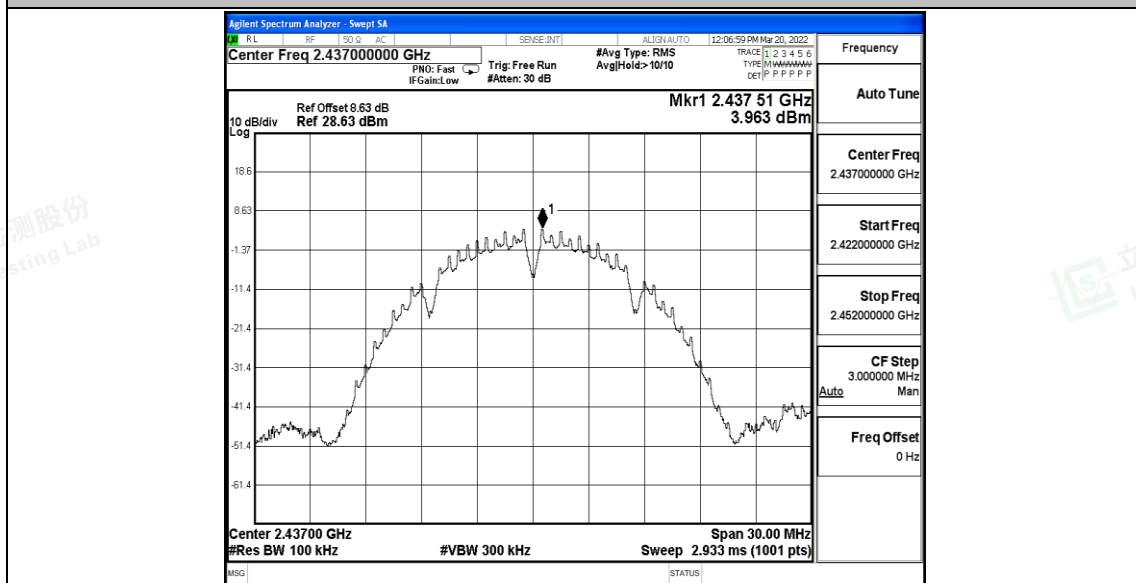
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11B_Ant A_2437_0~Reference



11B_Ant A_2437_30~1000

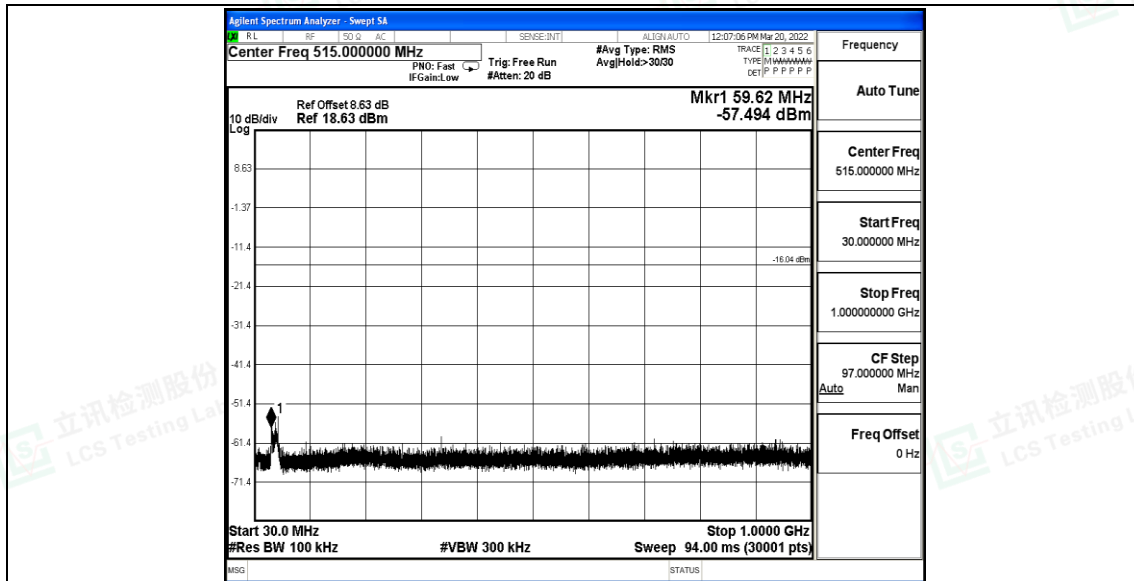


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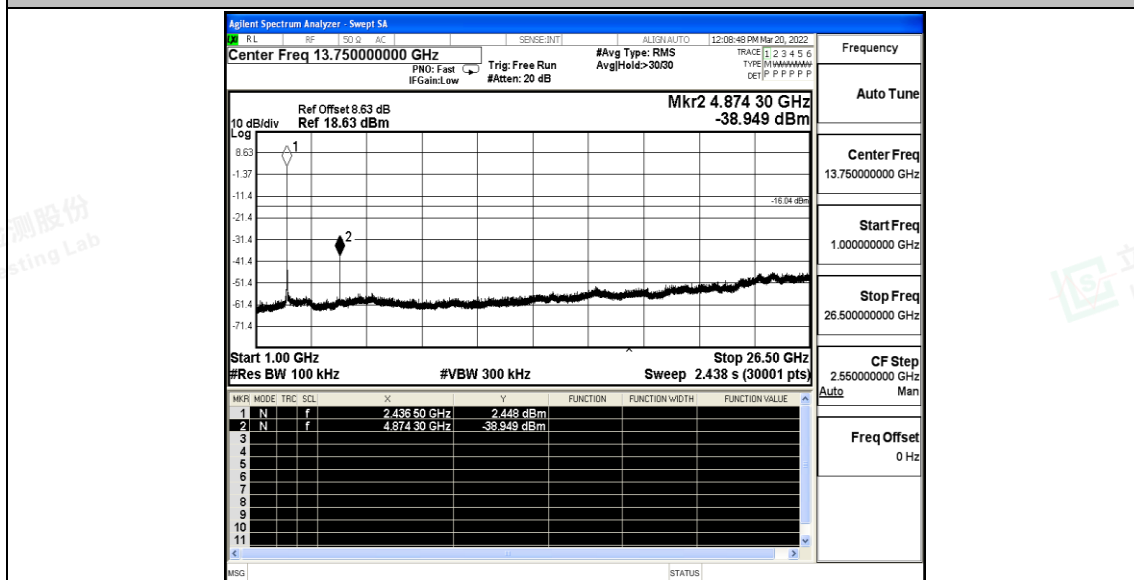
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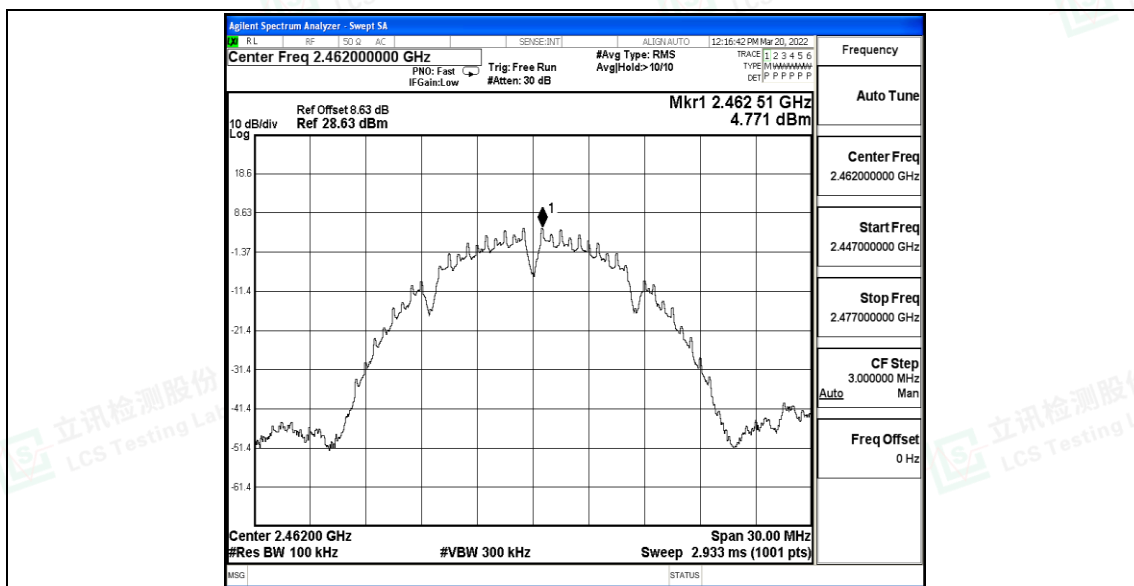


11B_Ant A_2437_1000~26500

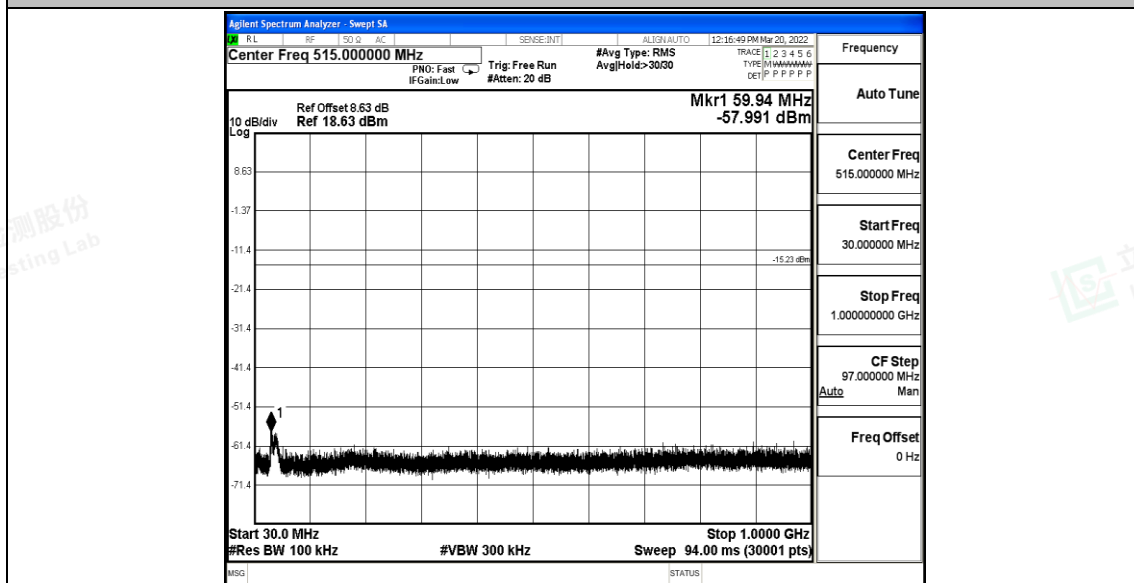


11B_Ant A_2462_0~Reference



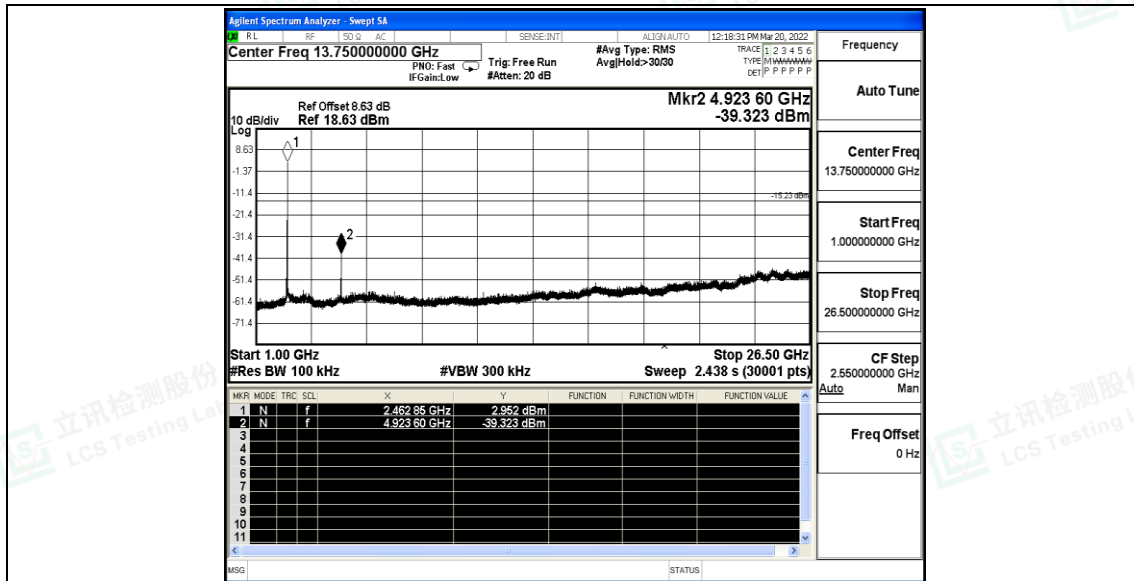


11B_Ant A_2462_30~1000

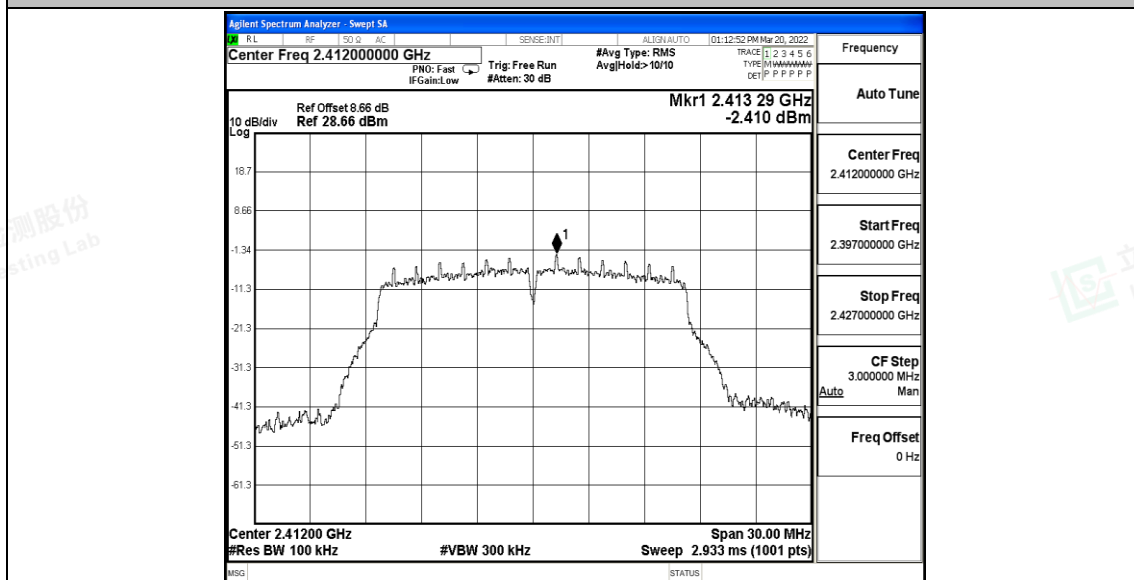


11B_Ant A_2462_1000~26500





11G_Ant A_2412_0~Reference



11G_Ant A_2412_30~1000



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