



## Appendix C

### RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: ROBOTIC POOL CLEANER

Test Model: OS7010C

#### Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





### C.1 DTS Bandwidth

#### Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.040	2406.960	2417.000	0.5	PASS
		2437	9.120	2432.440	2441.560	0.5	PASS
		2462	10.040	2456.960	2467.000	0.5	PASS
11G	Ant1	2412	15.440	2404.480	2419.920	0.5	PASS
		2437	13.760	2430.760	2444.520	0.5	PASS
		2462	15.080	2454.480	2469.560	0.5	PASS
11N20SISO	Ant1	2412	14.400	2405.080	2419.480	0.5	PASS
		2437	15.080	2429.480	2444.560	0.5	PASS
		2462	15.000	2454.720	2469.720	0.5	PASS
11N40SISO	Ant1	2422	35.120	2404.480	2439.600	0.5	PASS
		2437	35.120	2419.400	2454.520	0.5	PASS
		2452	35.120	2434.400	2469.520	0.5	PASS

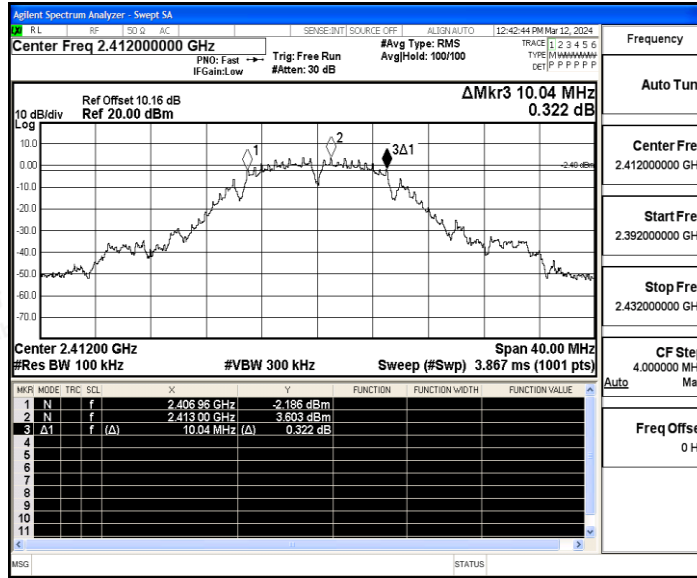


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 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
 Scan code to check authenticity

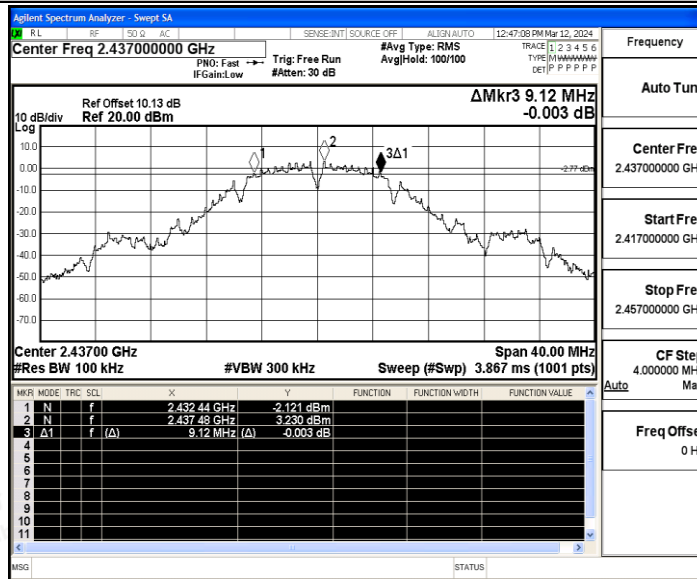


Test Graphs

11B\_Ant1\_2412

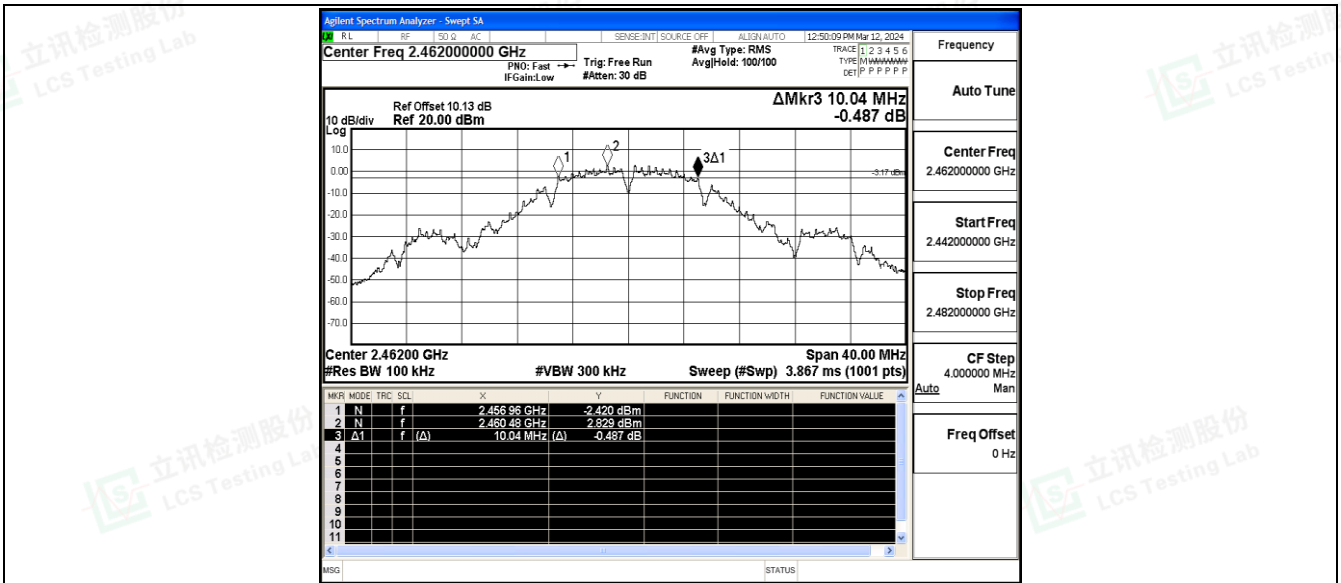


11B\_Ant1\_2437

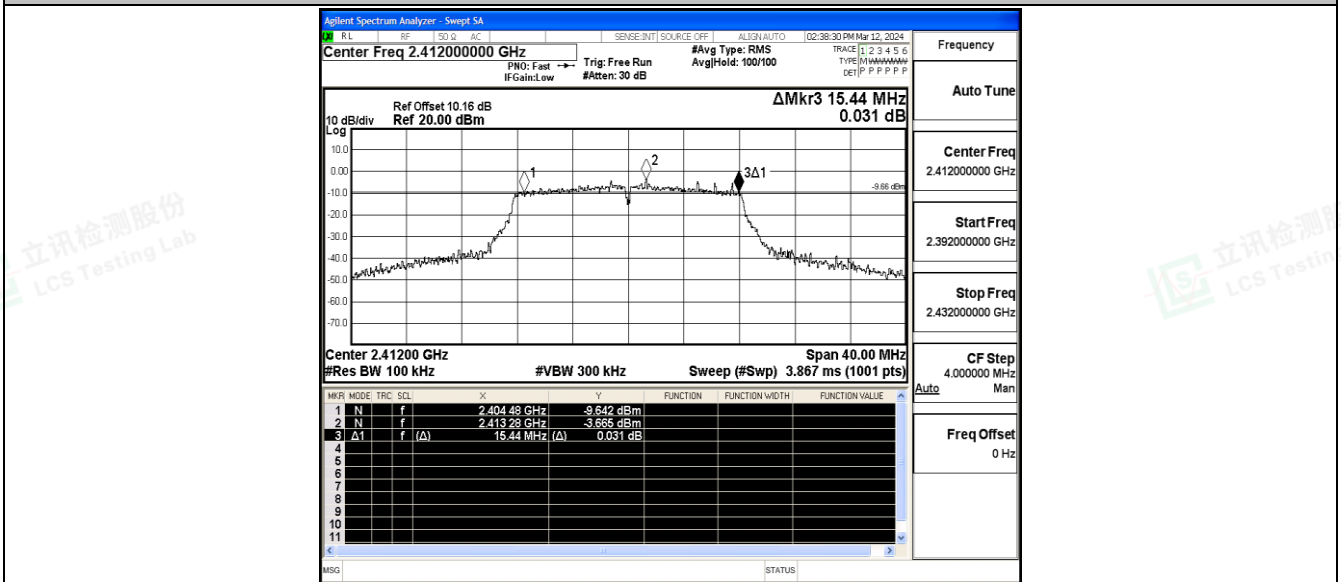


11B\_Ant1\_2462



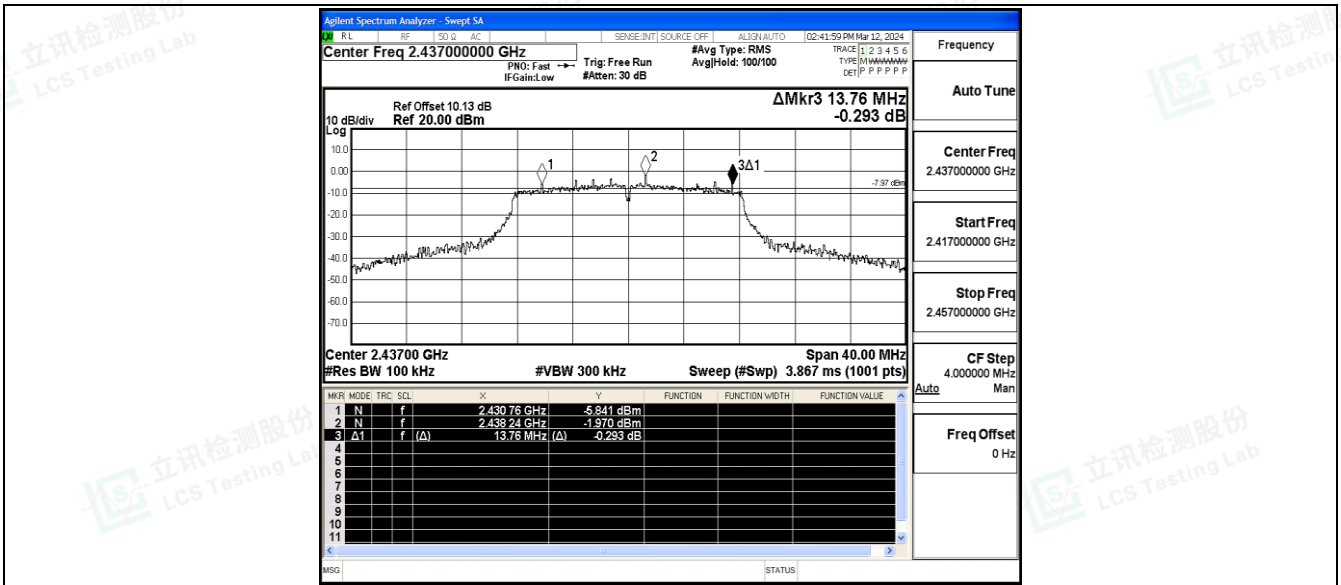


11G\_Ant1\_2412

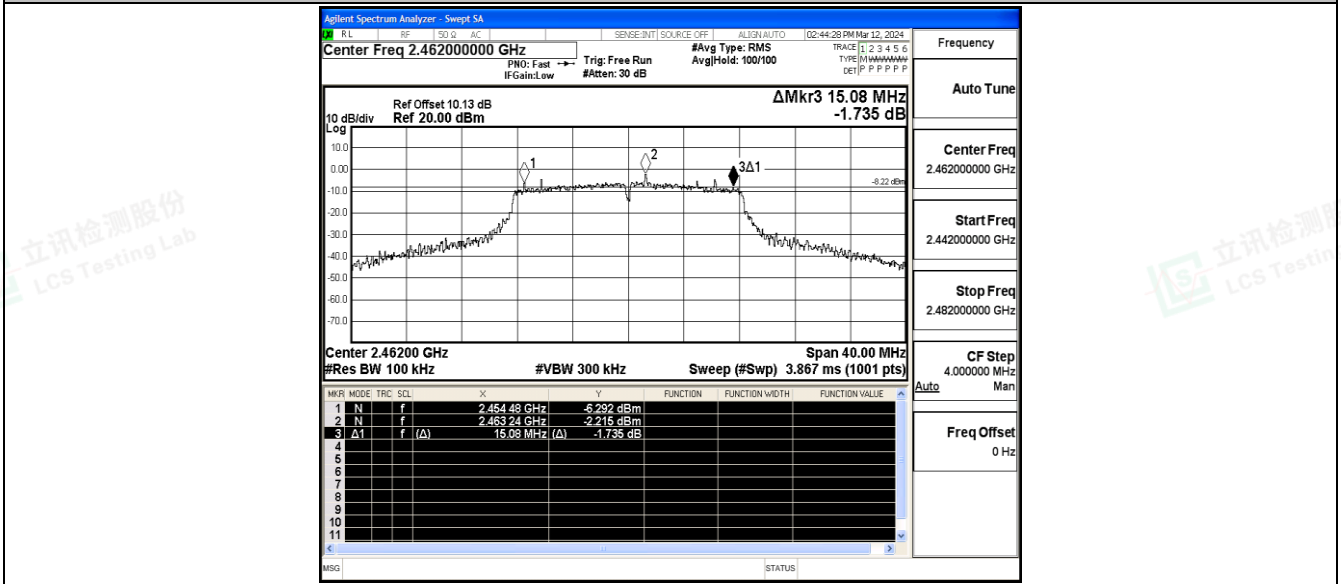


11G\_Ant1\_2437



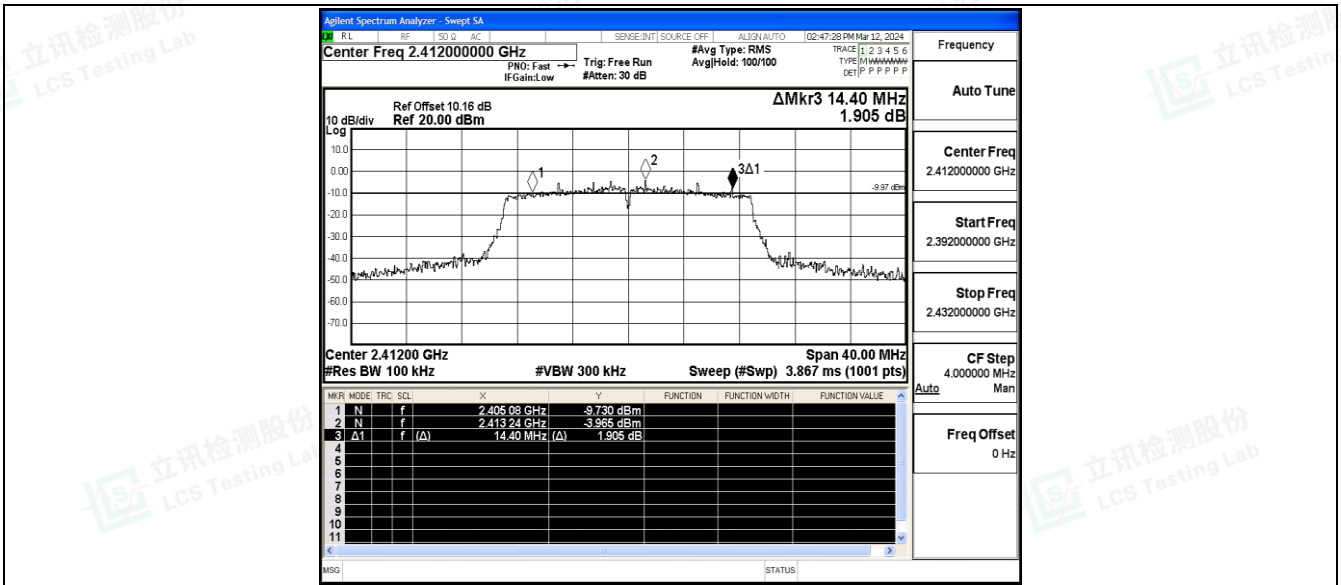


11G\_Ant1\_2462

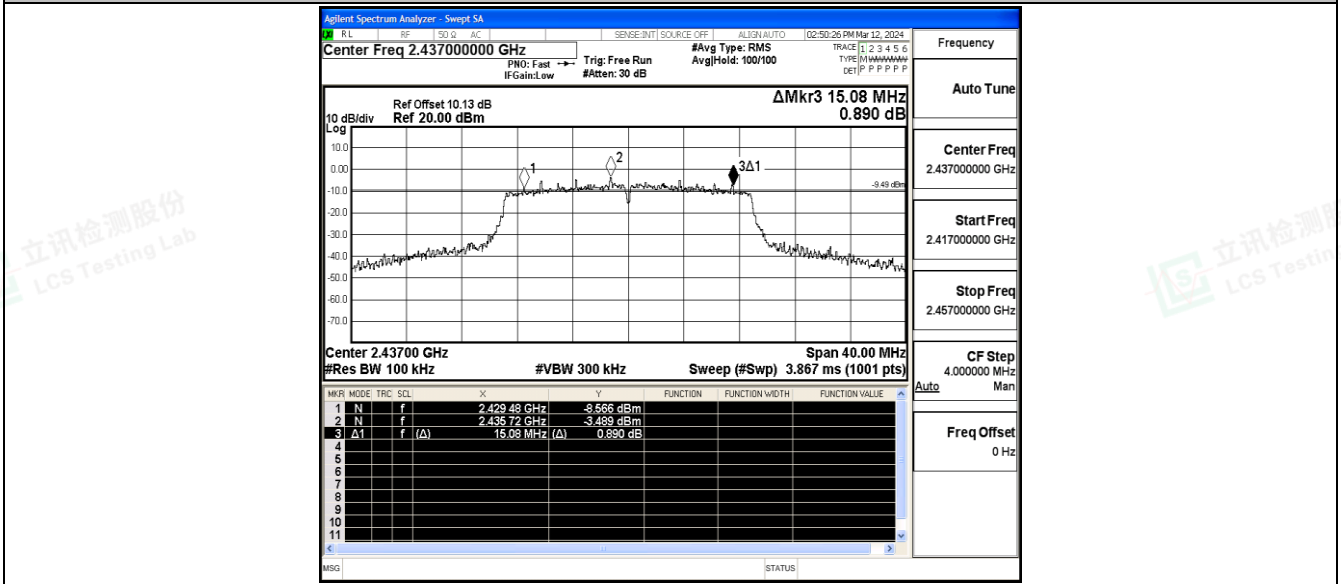


11N20SISO\_Ant1\_2412



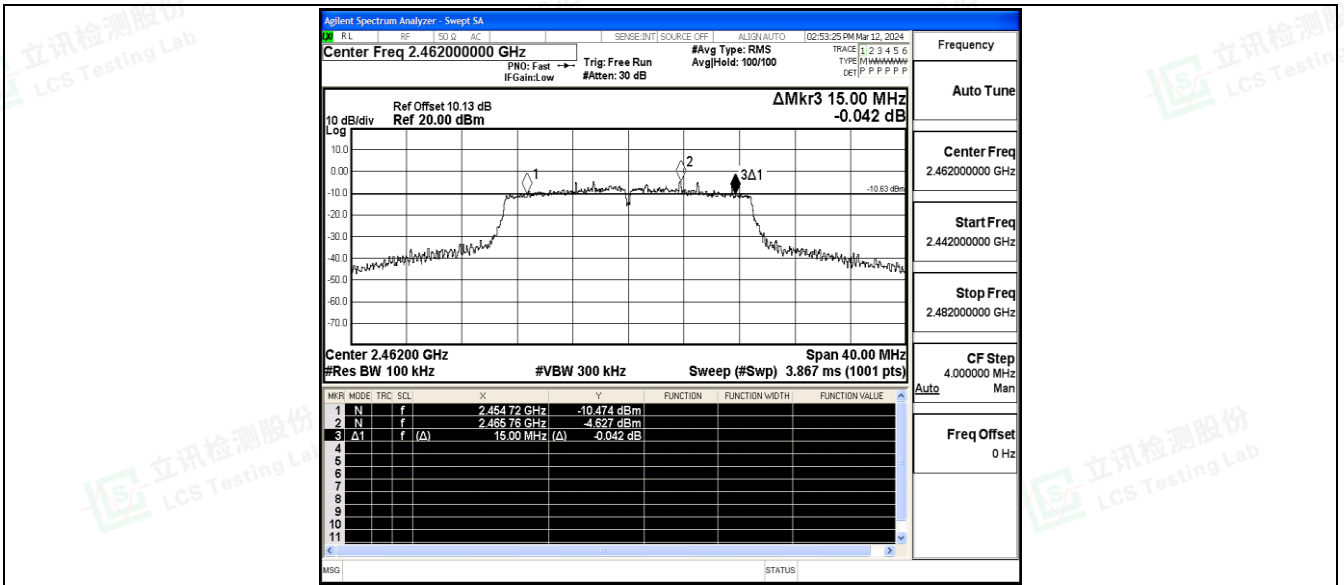


11N20SISO\_Ant1\_2437

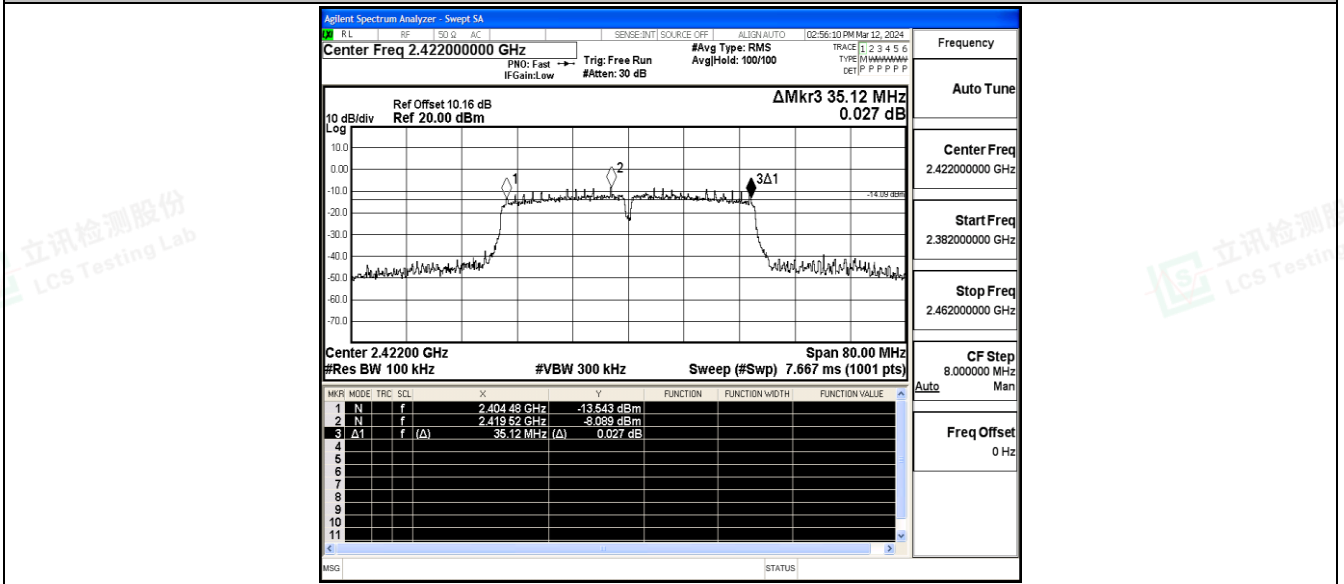


11N20SISO\_Ant1\_2462



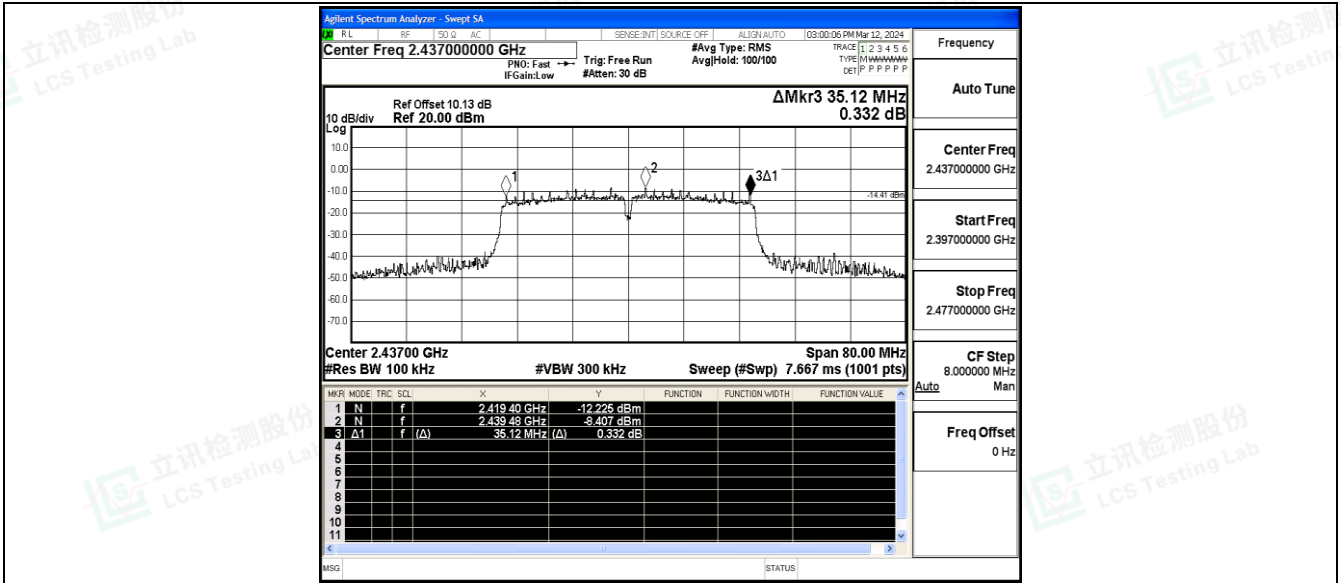


11N40SISO\_Ant1\_2422

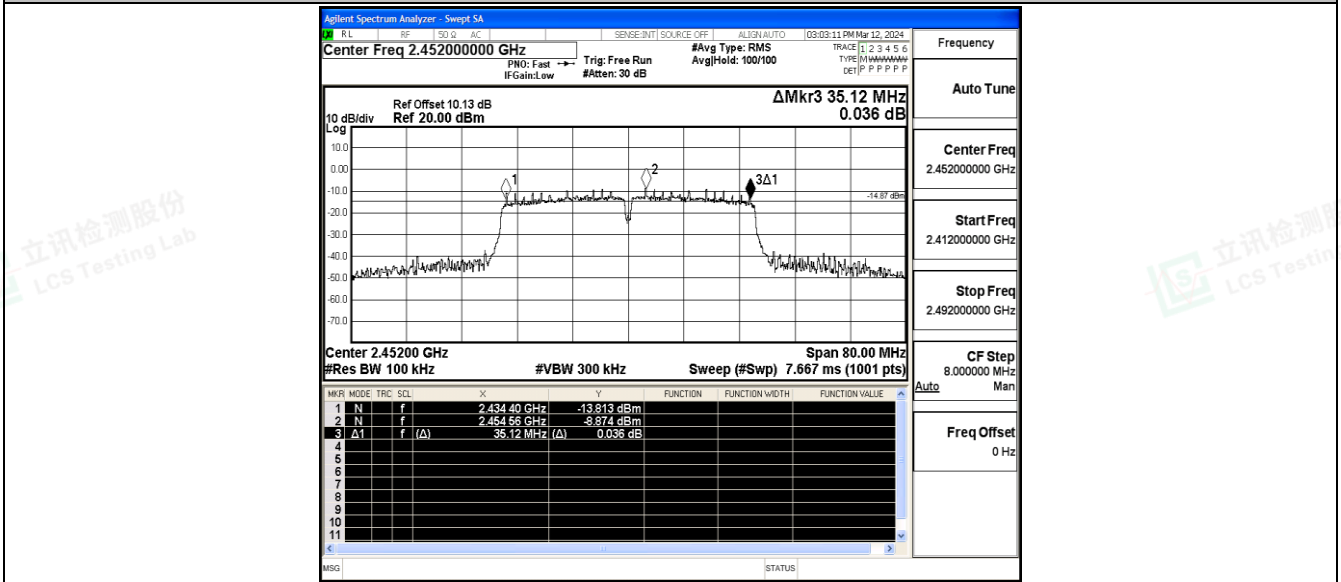


11N40SISO\_Ant1\_2437





11N40SISO\_Ant1\_2452







### C.2 Maximum Peak conducted output power

#### Test Result

TestMode	Antenna	Freq(MHz)	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	---	15.31	≤30.00	PASS
		2437	---	15.15	≤30.00	PASS
		2462	---	14.94	≤30.00	PASS
11G	Ant1	2412	---	13.81	≤30.00	PASS
		2437	---	14.27	≤30.00	PASS
		2462	---	13.89	≤30.00	PASS
11N20SISO	Ant1	2412	---	12.86	≤30.00	PASS
		2437	---	13.41	≤30.00	PASS
		2462	---	13.01	≤30.00	PASS
11N40SISO	Ant1	2422	---	11.81	≤30.00	PASS
		2437	---	11.64	≤30.00	PASS
		2452	---	11.37	≤30.00	PASS



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### C.3 Maximum power spectral density

#### Test Result

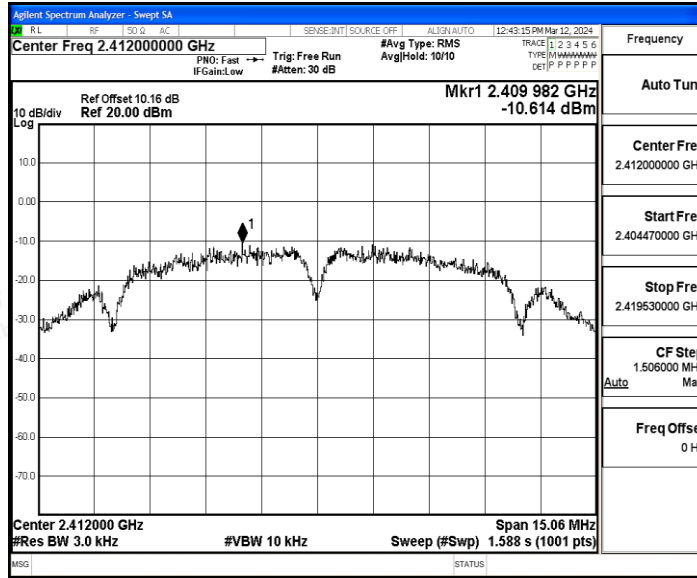
TestMode	Antenna	Freq(MHz)	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-10.61	≤8.00	PASS
		2437	-9.25	≤8.00	PASS
		2462	-10.11	≤8.00	PASS
11G	Ant1	2412	-16.84	≤8.00	PASS
		2437	-16.92	≤8.00	PASS
		2462	-16.55	≤8.00	PASS
11N20SISO	Ant1	2412	-18.70	≤8.00	PASS
		2437	-17.33	≤8.00	PASS
		2462	-17.72	≤8.00	PASS
11N40SISO	Ant1	2422	-22.20	≤8.00	PASS
		2437	-22.78	≤8.00	PASS
		2452	-22.09	≤8.00	PASS



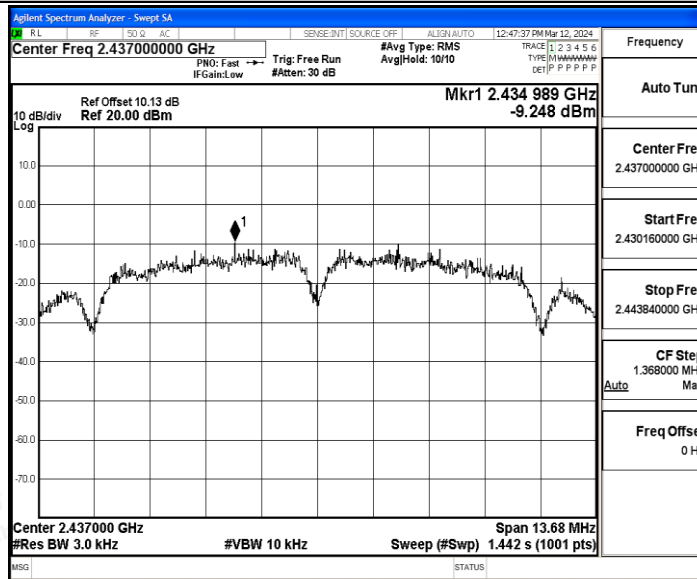


### Test Graphs

11B\_Ant1\_2412

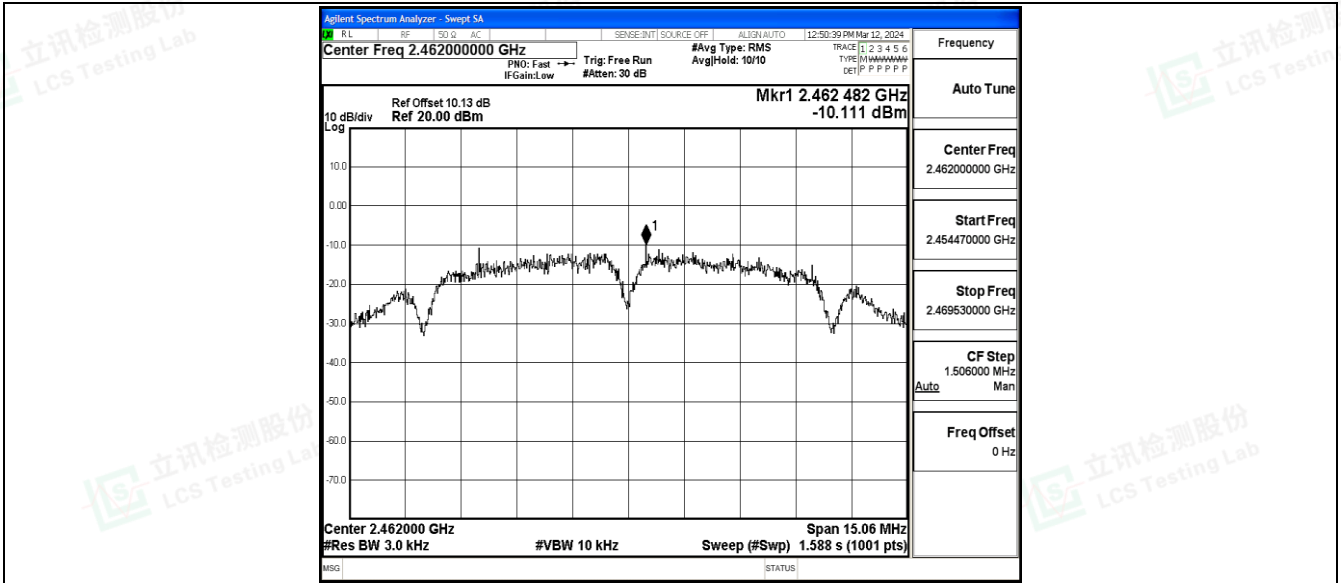


11B\_Ant1\_2437

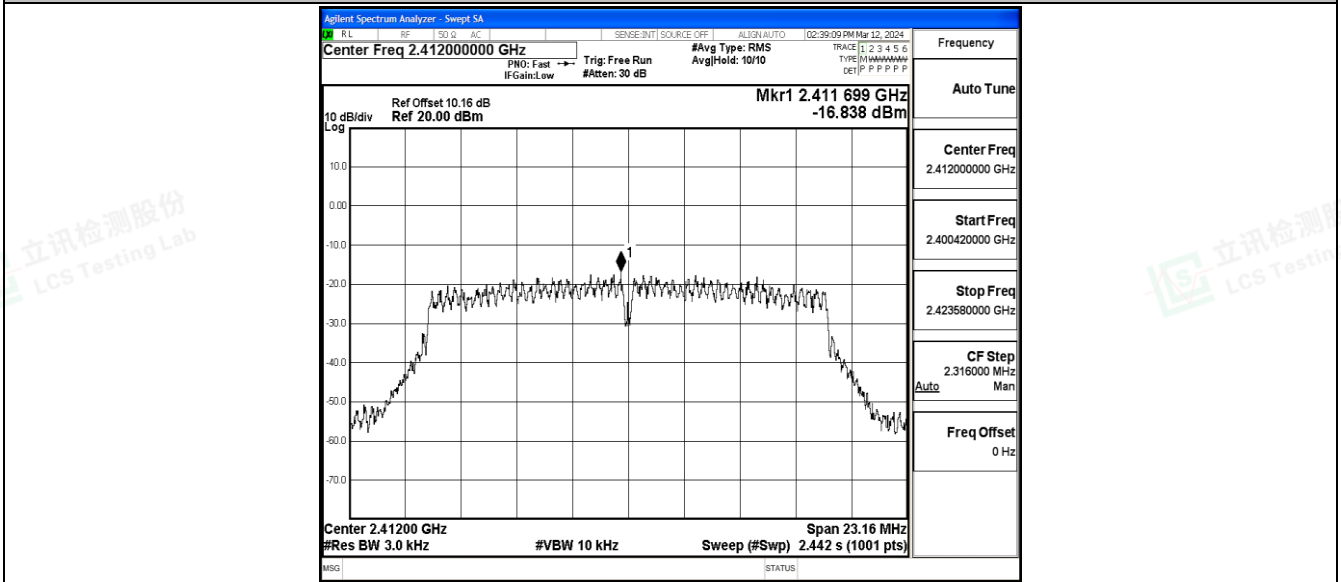


11B\_Ant1\_2462



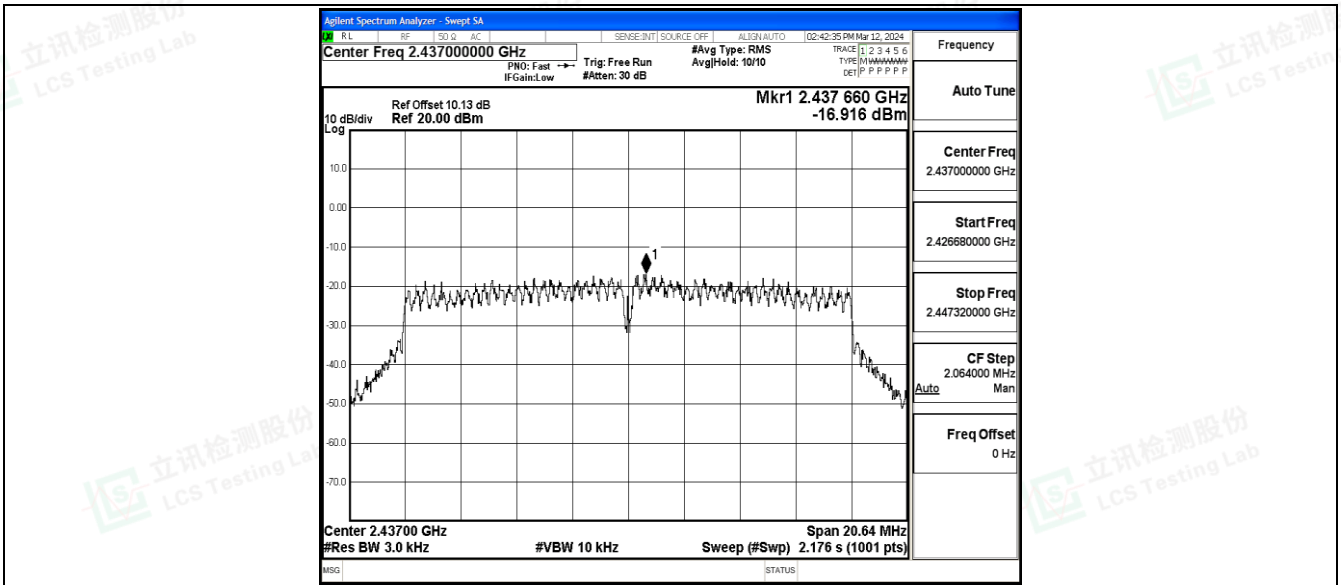


11G\_Ant1\_2412

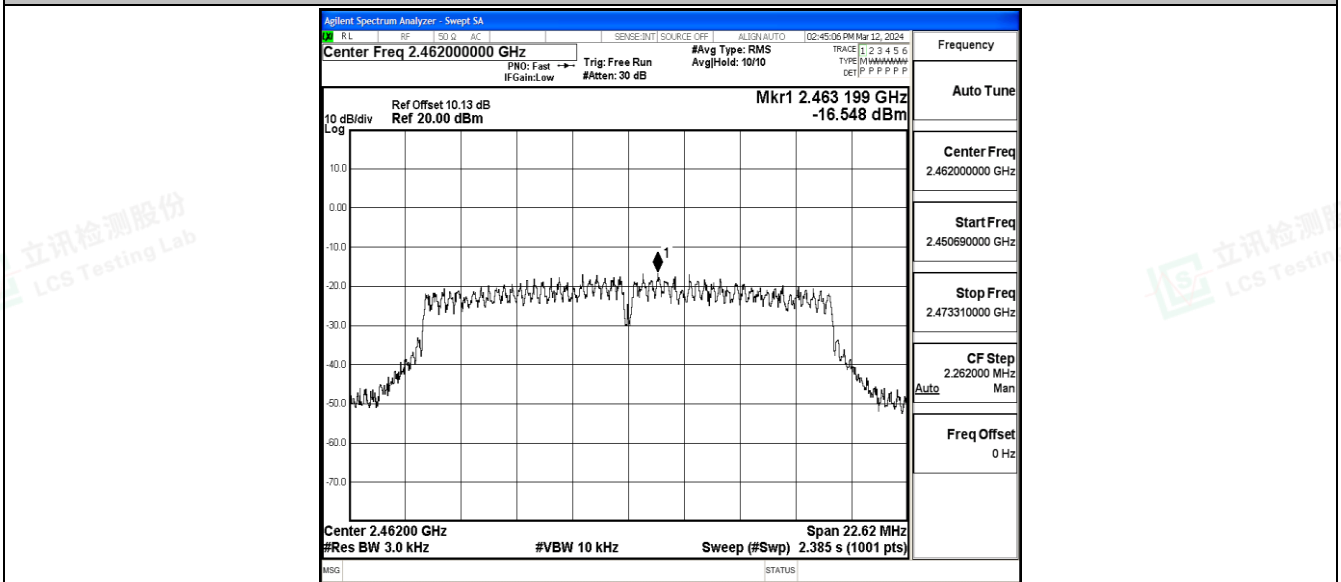


11G\_Ant1\_2437



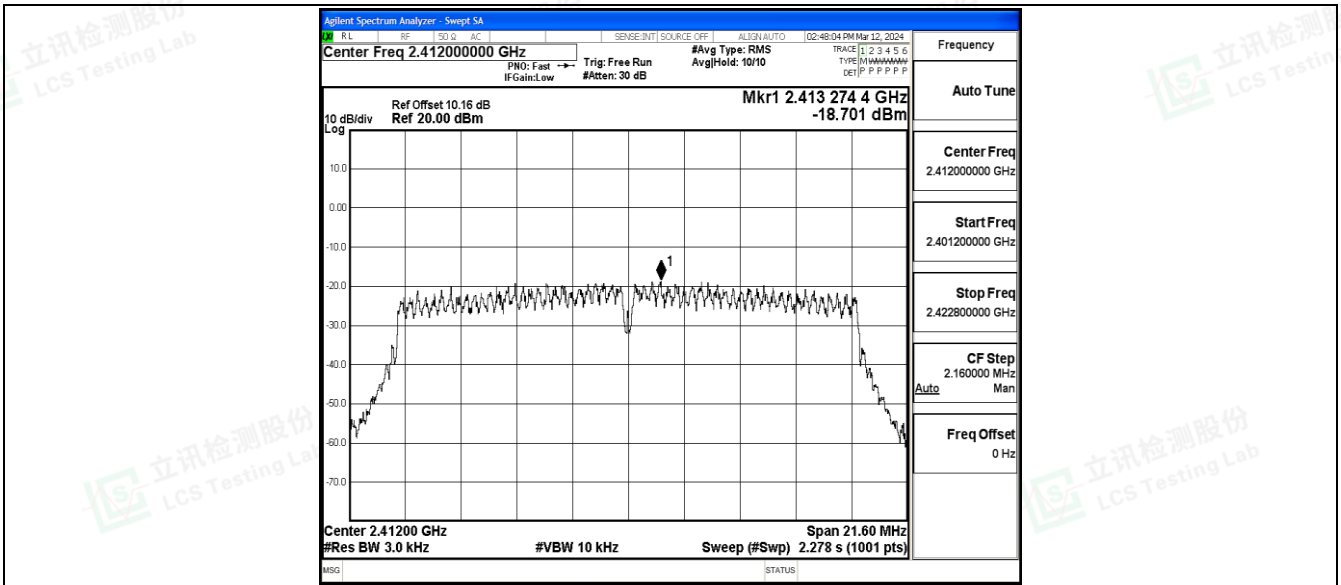


11G\_Ant1\_2462

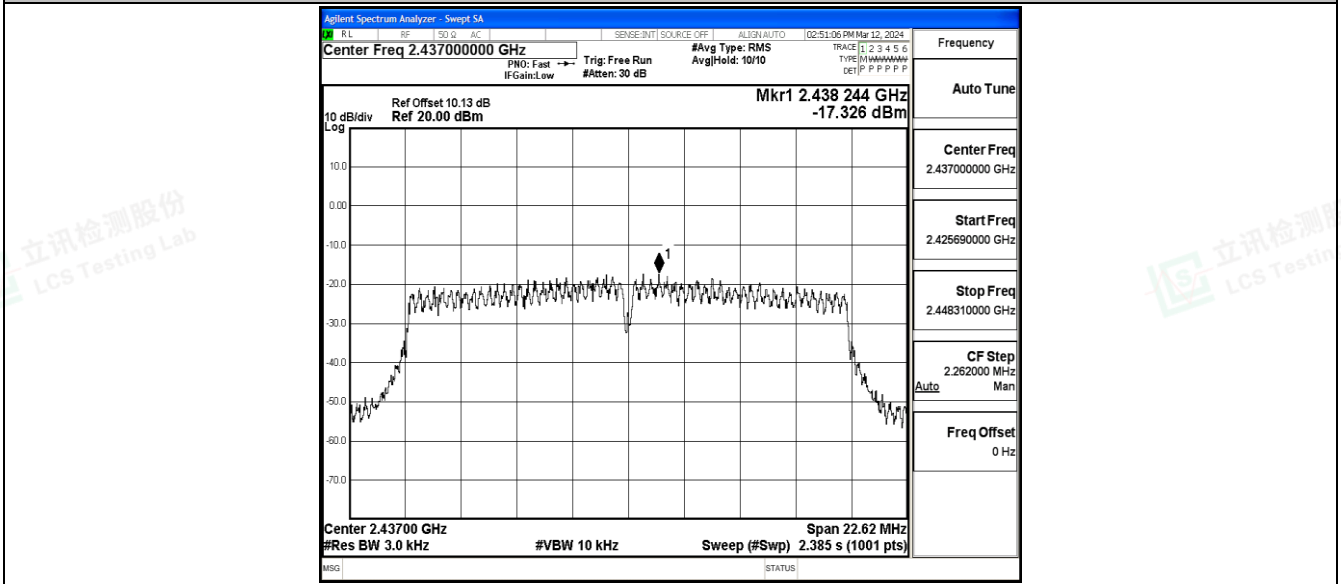


11N20SISO\_Ant1\_2412



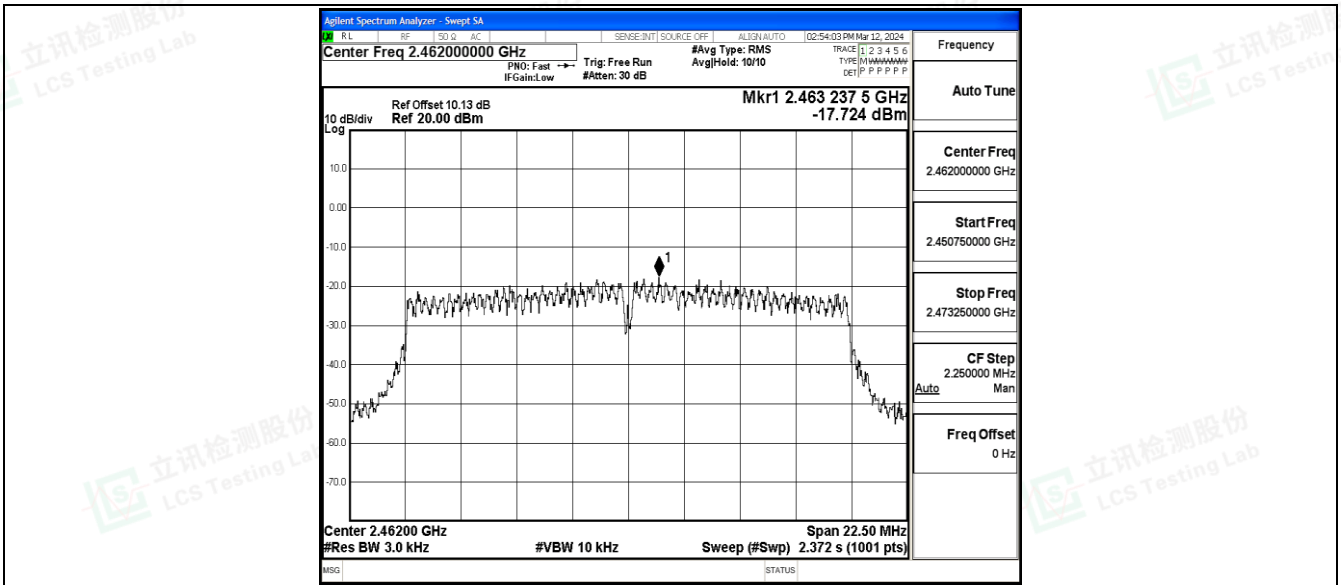


11N20SISO\_Ant1\_2437

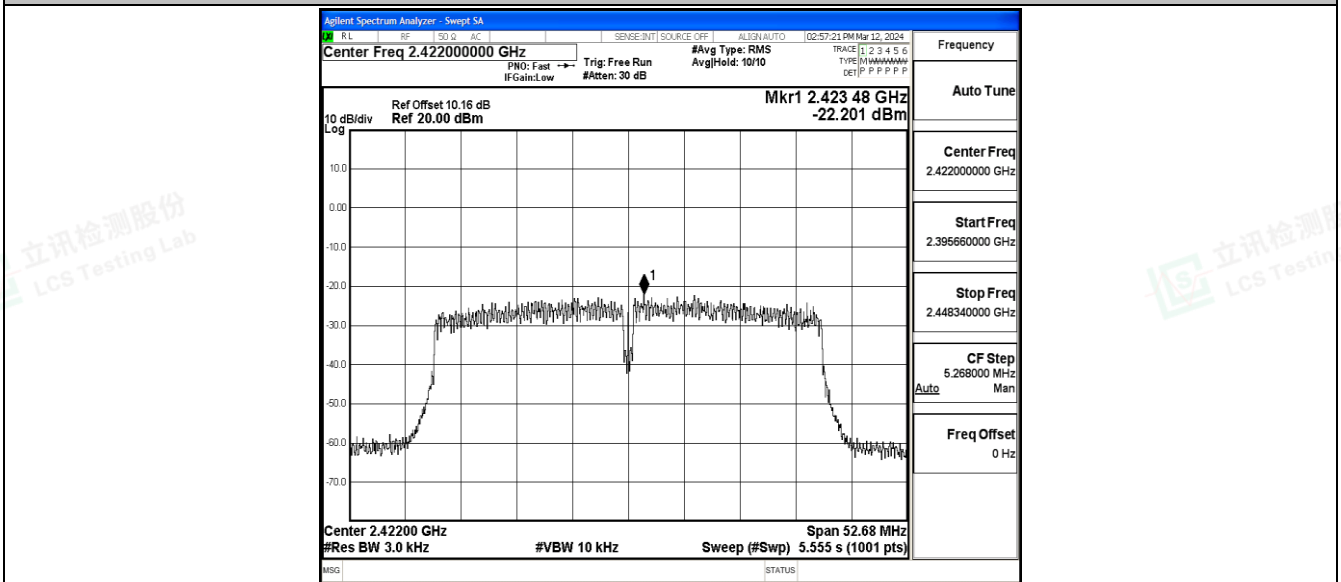


11N20SISO\_Ant1\_2462



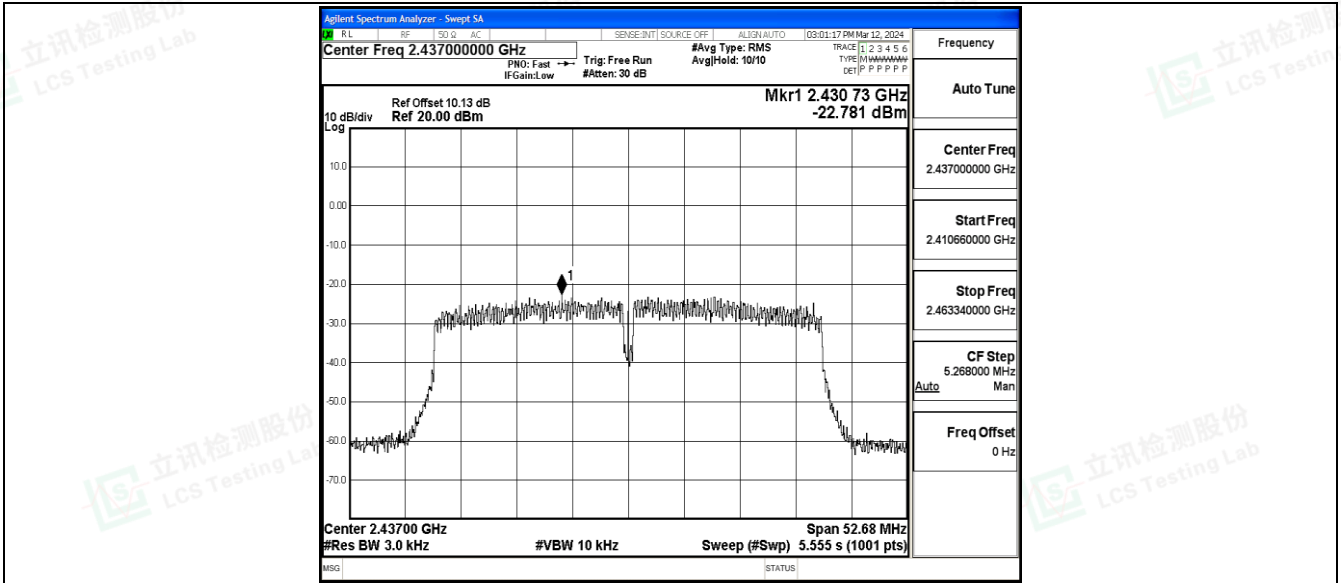


11N40SISO\_Ant1\_2422

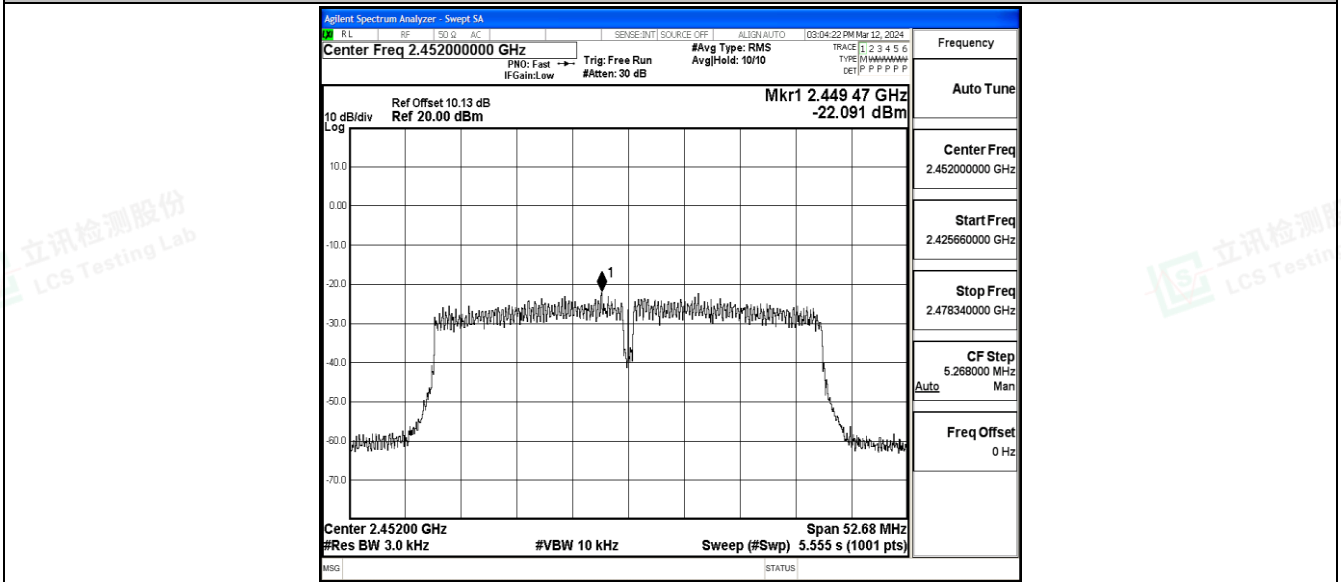


11N40SISO\_Ant1\_2437





11N40SISO\_Ant1\_2452







## C.4 Band edge measurements

### Test Result

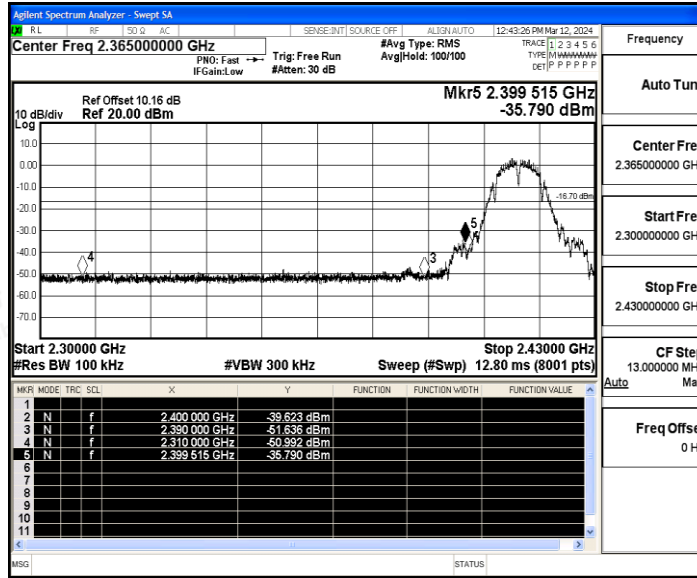
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.30	-35.79	≤-16.7	PASS
		High	2462	2.98	-40.72	≤-17.02	PASS
11G	Ant1	Low	2412	-2.53	-37.9	≤-22.53	PASS
		High	2462	-2.56	-45.86	≤-22.56	PASS
11N20SISO	Ant1	Low	2412	-4.27	-39.75	≤-24.27	PASS
		High	2462	-3.69	-45.88	≤-23.69	PASS
11N40SISO	Ant1	Low	2422	-8.26	-40.8	≤-28.26	PASS
		High	2452	-8.59	-41.75	≤-28.59	PASS



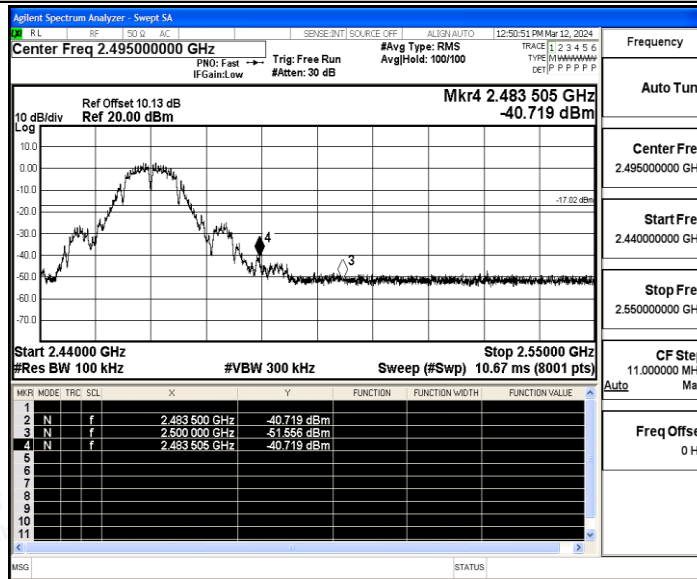


### Test Graphs

11B\_Ant1\_Low\_2412



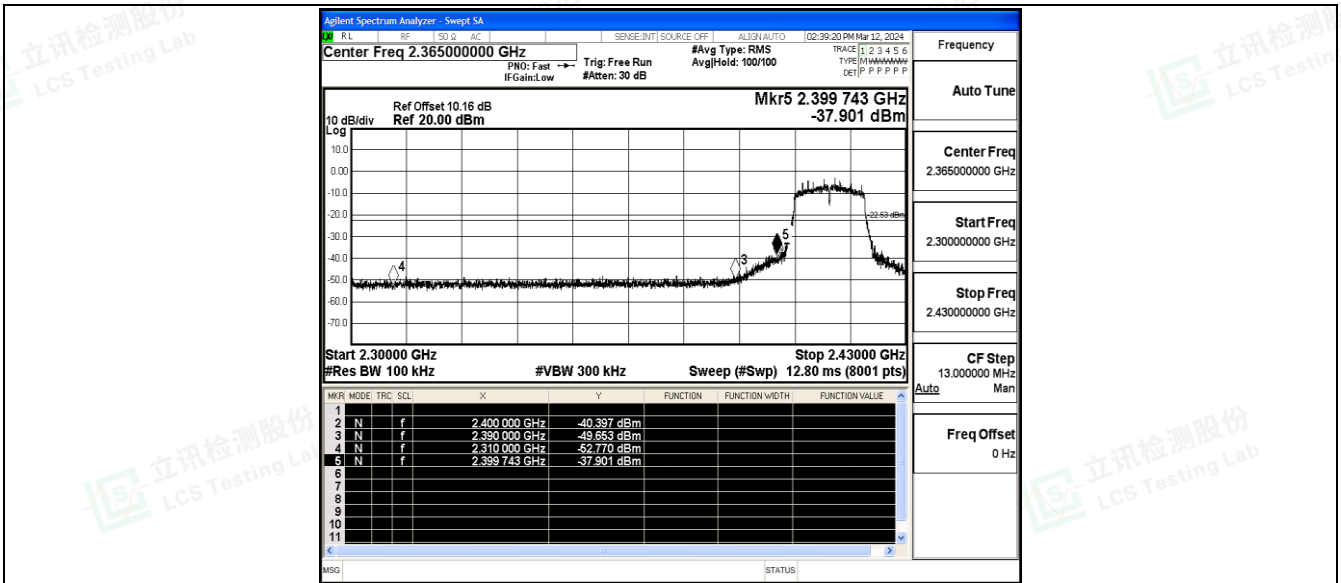
11B\_Ant1\_High\_2462



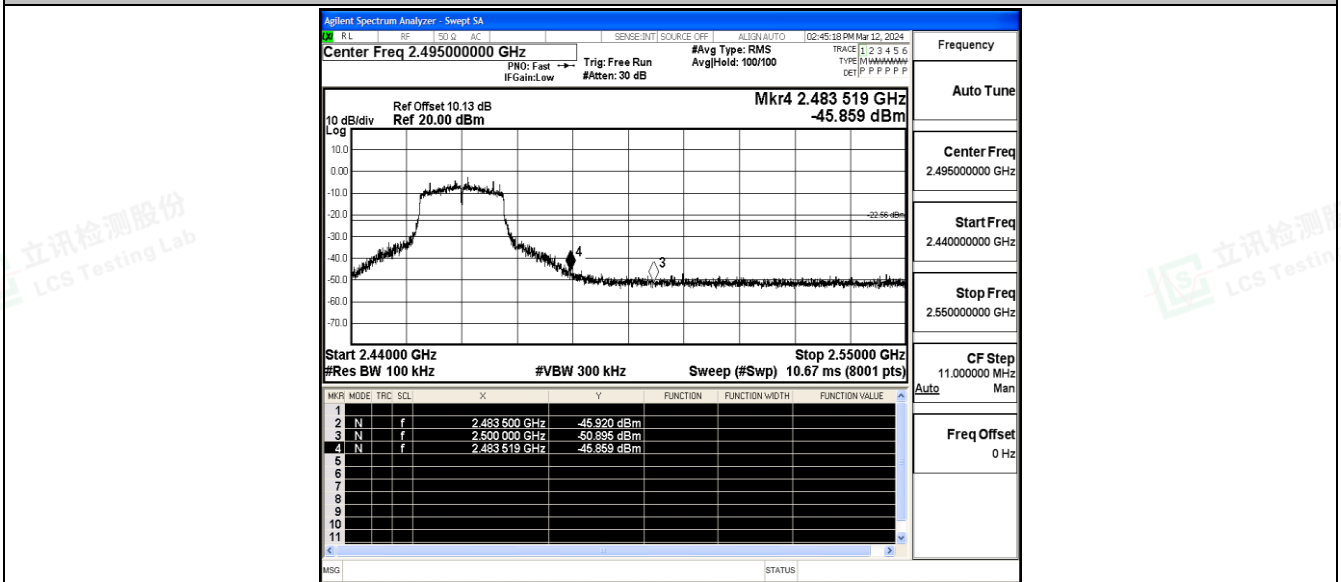
11G\_Ant1\_Low\_2412



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 Scan code to check authenticity

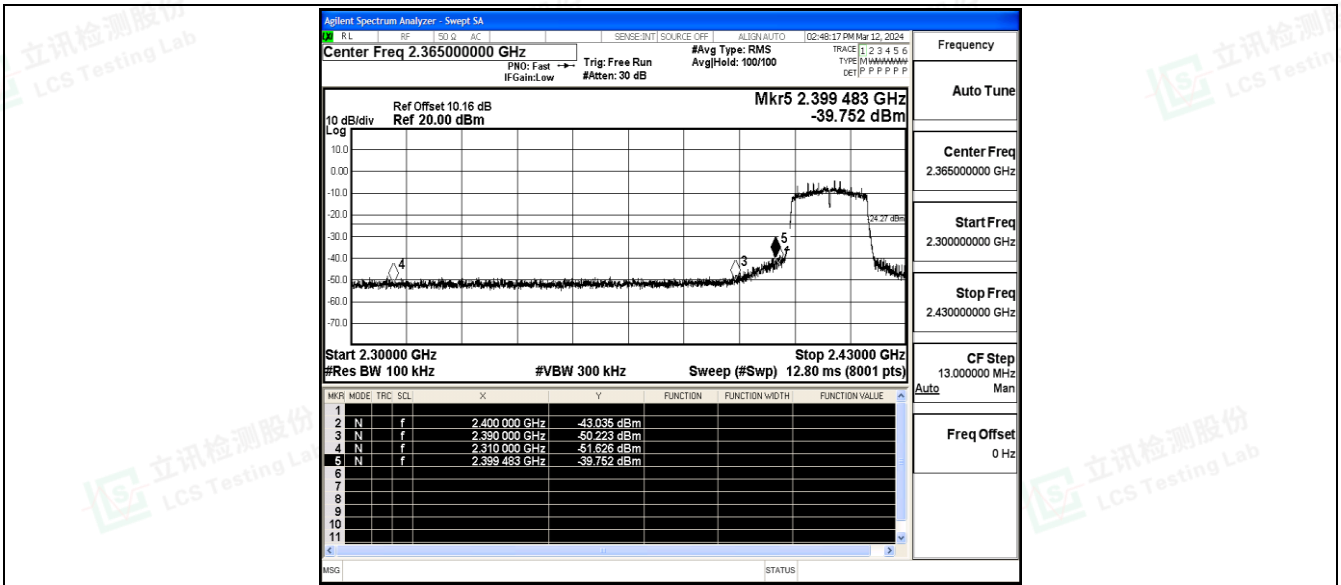


11G\_Ant1\_High\_2462

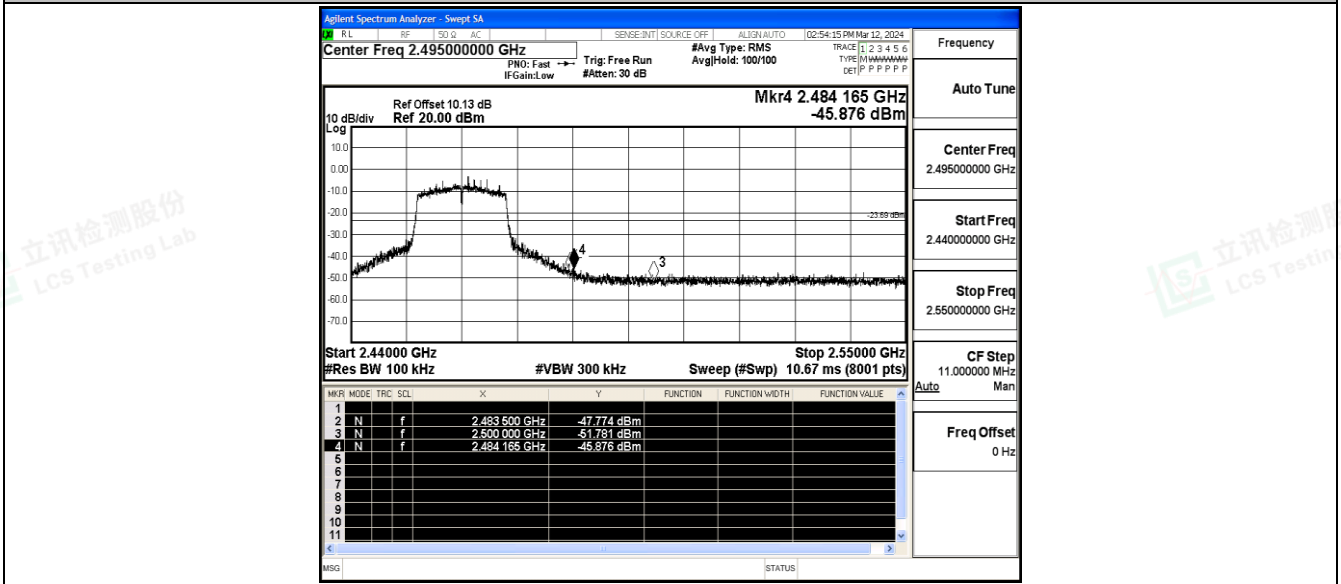


11N20SISO\_Ant1\_Low\_2412



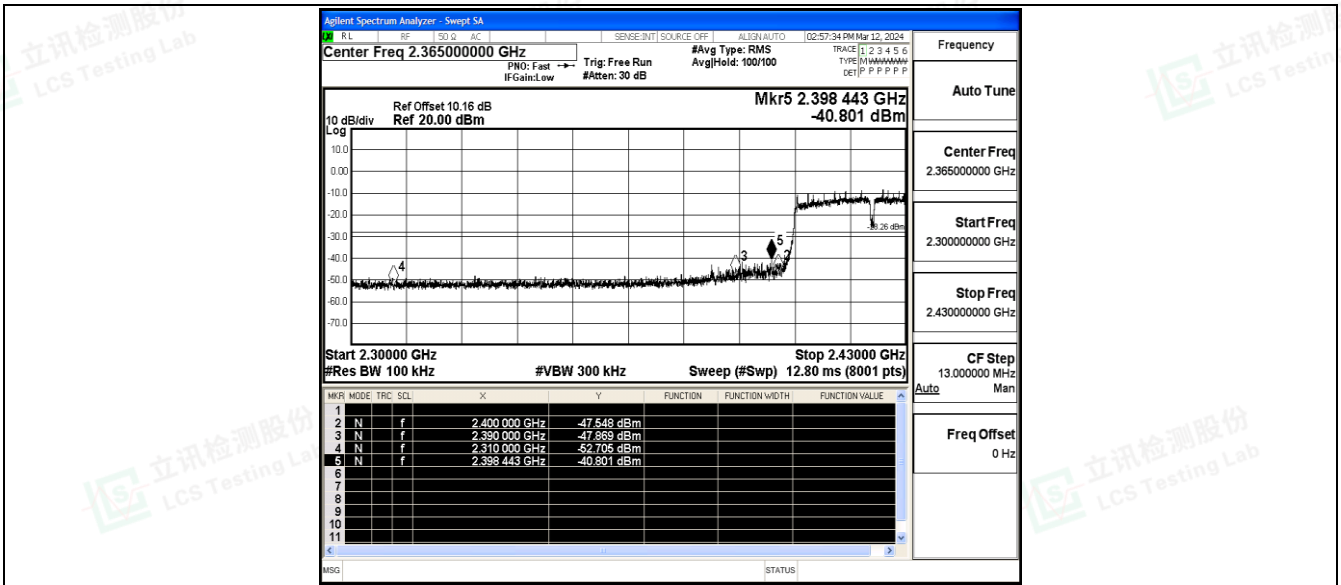


11N20SISO\_Ant1\_High\_2462

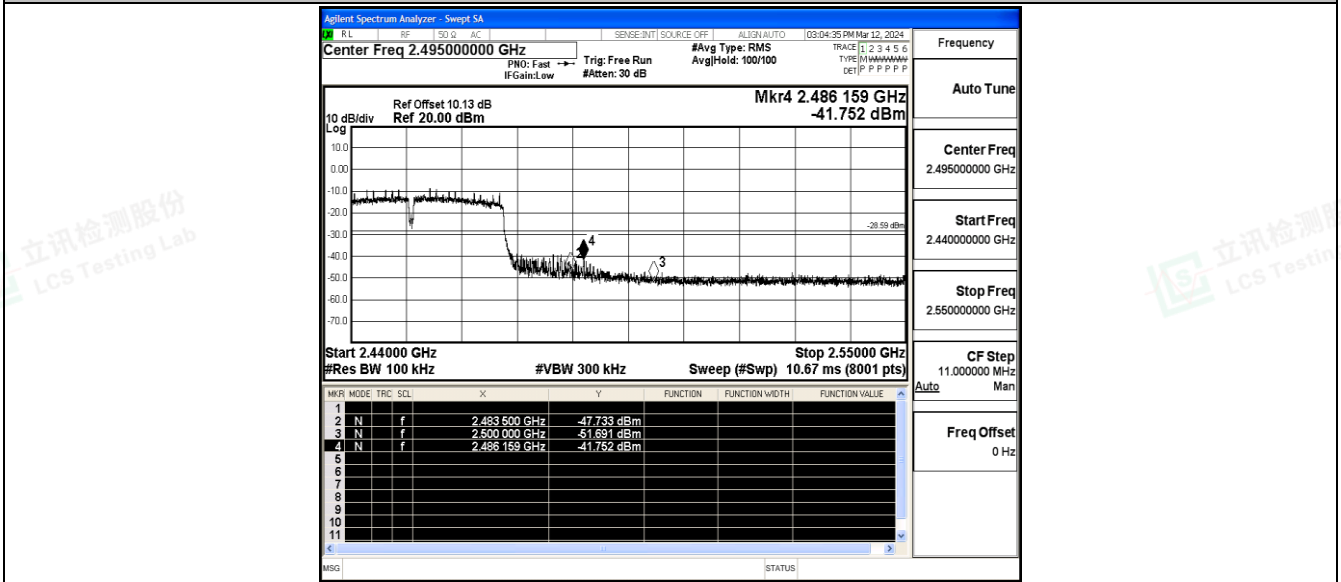


11N40SISO\_Ant1\_Low\_2422





11N40SISO\_Ant1\_High\_2452





## C.5 Conducted Spurious Emission

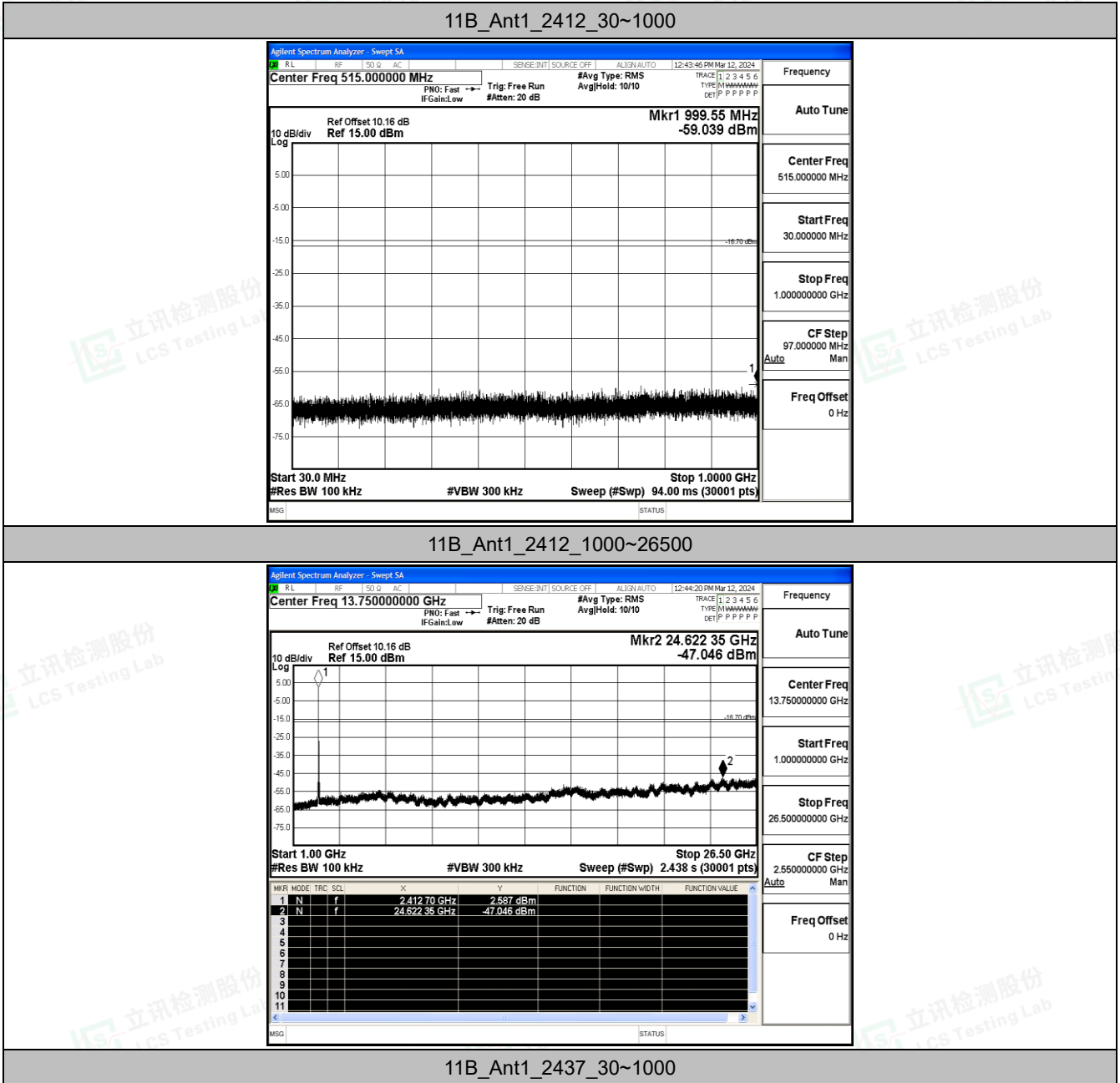
### Test Result

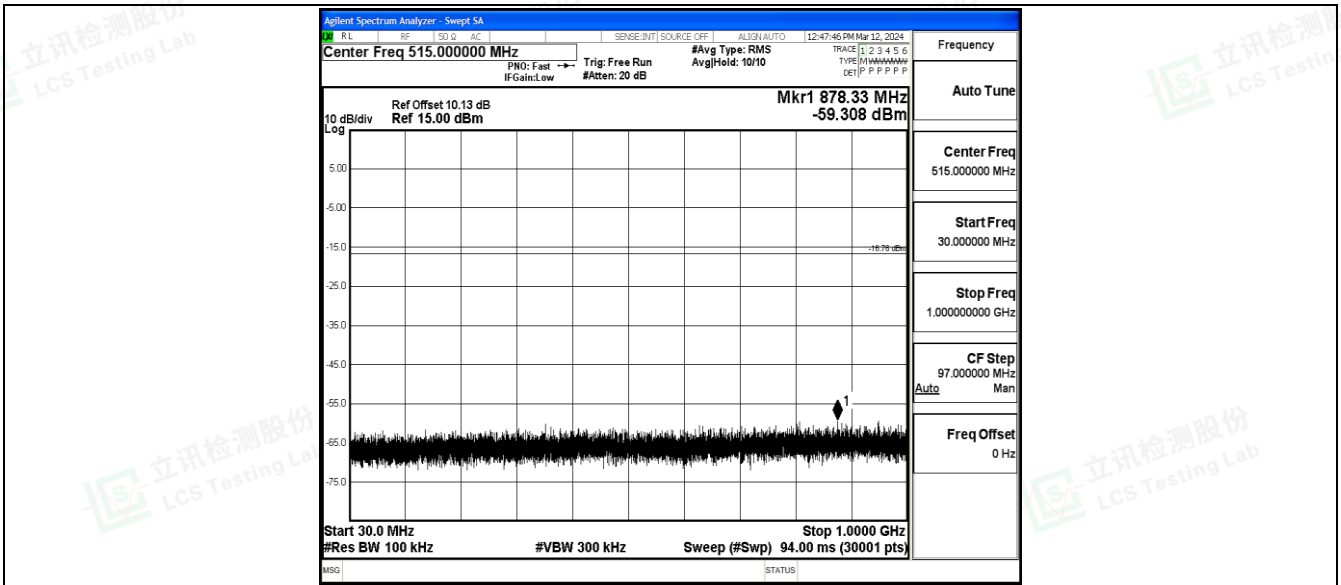
TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	3.30	-59.04	≤-16.7	PASS
			1000~26500	3.30	-47.05	≤-16.7	PASS
		2437	30~1000	3.24	-59.31	≤-16.76	PASS
			1000~26500	3.24	-47.05	≤-16.76	PASS
		2462	30~1000	2.98	-59.82	≤-17.02	PASS
			1000~26500	2.98	-47.76	≤-17.02	PASS
11G	Ant1	2412	30~1000	-2.53	-58.72	≤-22.53	PASS
			1000~26500	-2.53	-46.73	≤-22.53	PASS
		2437	30~1000	-3.46	-59.9	≤-23.46	PASS
			1000~26500	-3.46	-47.1	≤-23.46	PASS
		2462	30~1000	-2.56	-59.8	≤-22.56	PASS
			1000~26500	-2.56	-47.49	≤-22.56	PASS
11N20SISO	Ant1	2412	30~1000	-4.27	-58.57	≤-24.27	PASS
			1000~26500	-4.27	-46.86	≤-24.27	PASS
		2437	30~1000	-5.12	-59.55	≤-25.12	PASS
			1000~26500	-5.12	-47.1	≤-25.12	PASS
		2462	30~1000	-3.69	-59.28	≤-23.69	PASS
			1000~26500	-3.69	-46.93	≤-23.69	PASS
11N40SISO	Ant1	2422	30~1000	-8.26	-59.8	≤-28.26	PASS
			1000~26500	-8.26	-46.48	≤-28.26	PASS
		2437	30~1000	-8.33	-59.14	≤-28.33	PASS
			1000~26500	-8.33	-45.91	≤-28.33	PASS
		2452	30~1000	-8.59	-59.84	≤-28.59	PASS
			1000~26500	-8.59	-46.92	≤-28.59	PASS



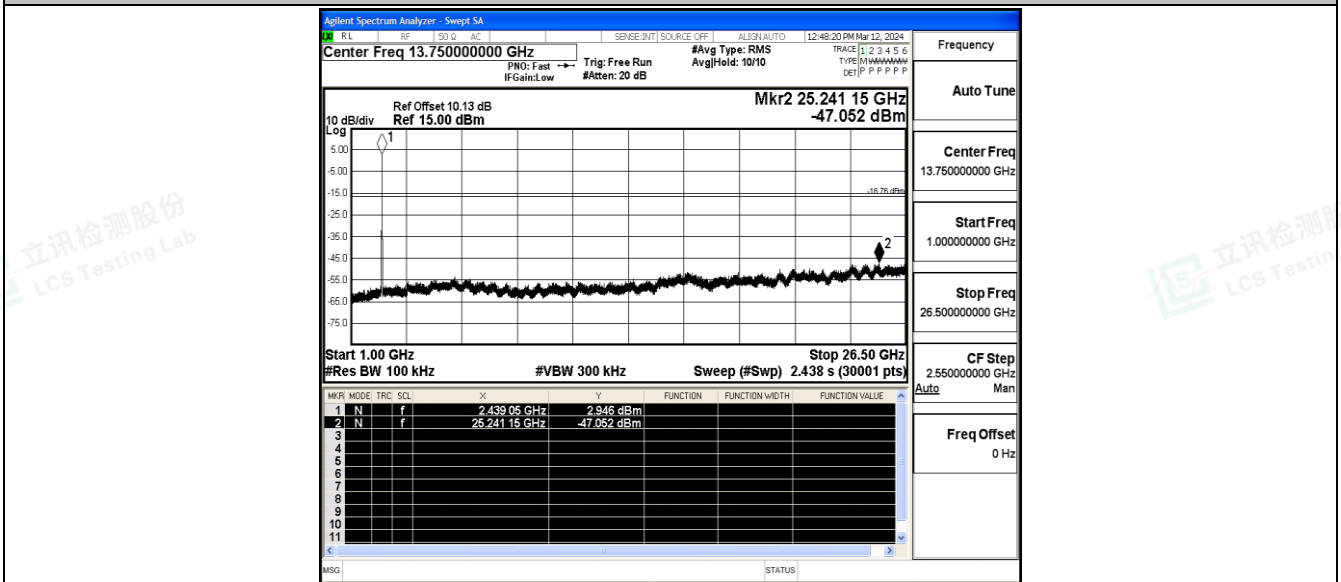


### Test Graphs





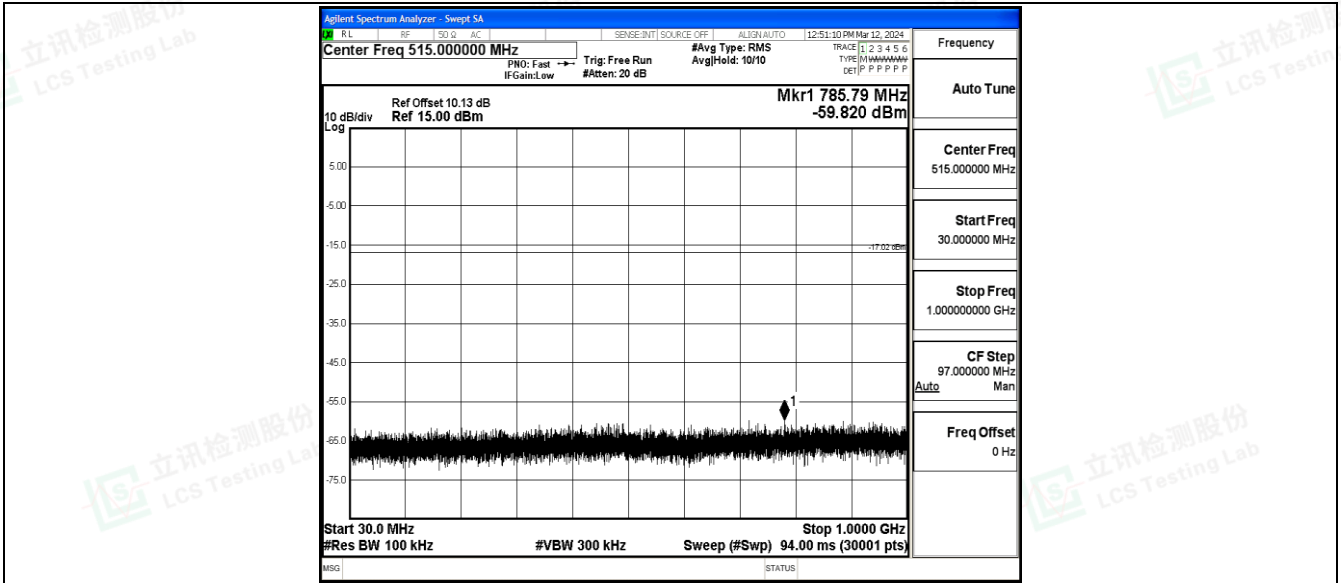
11B\_Ant1\_2437\_1000~26500



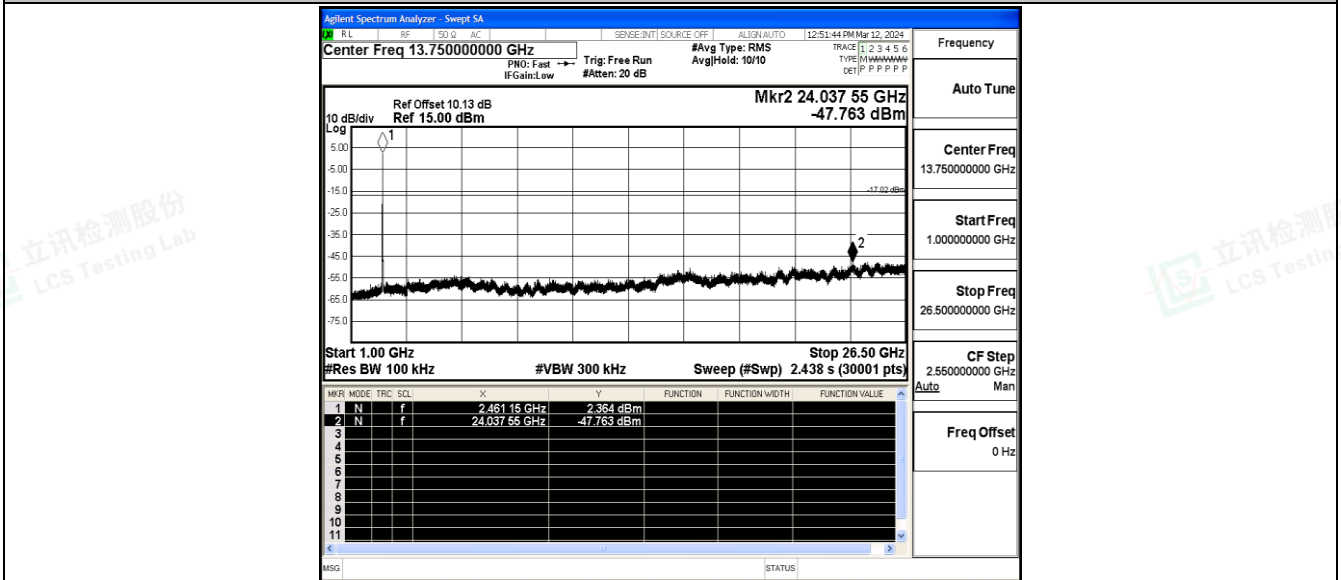
11B\_Ant1\_2462\_30~1000





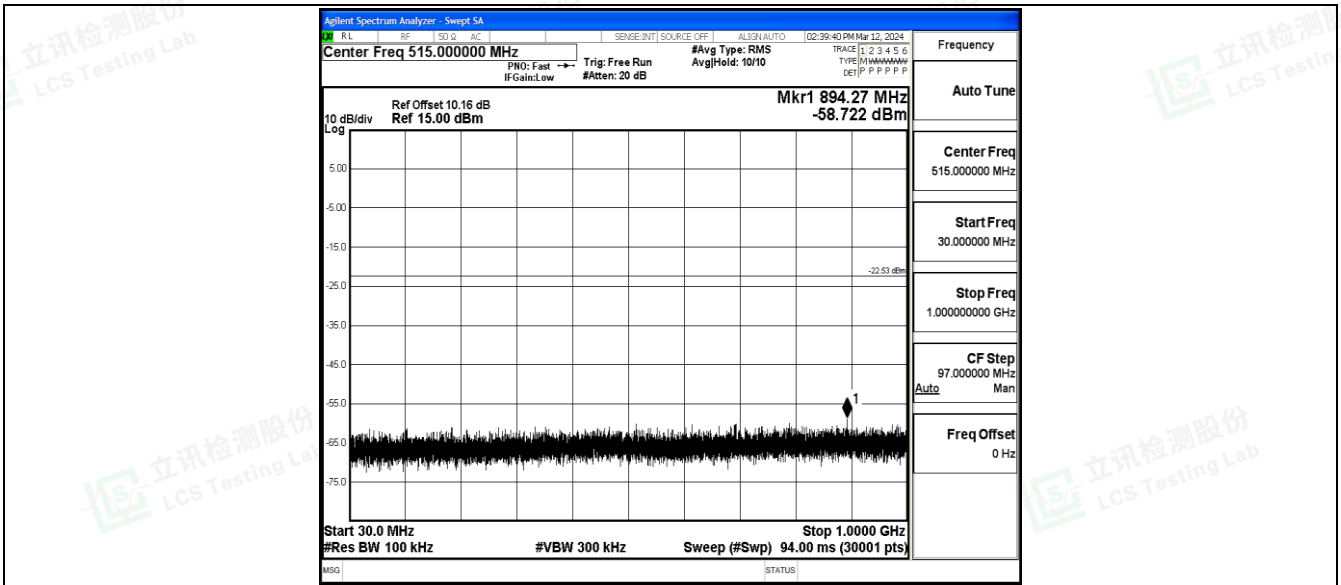


11B\_Ant1\_2462\_1000~26500

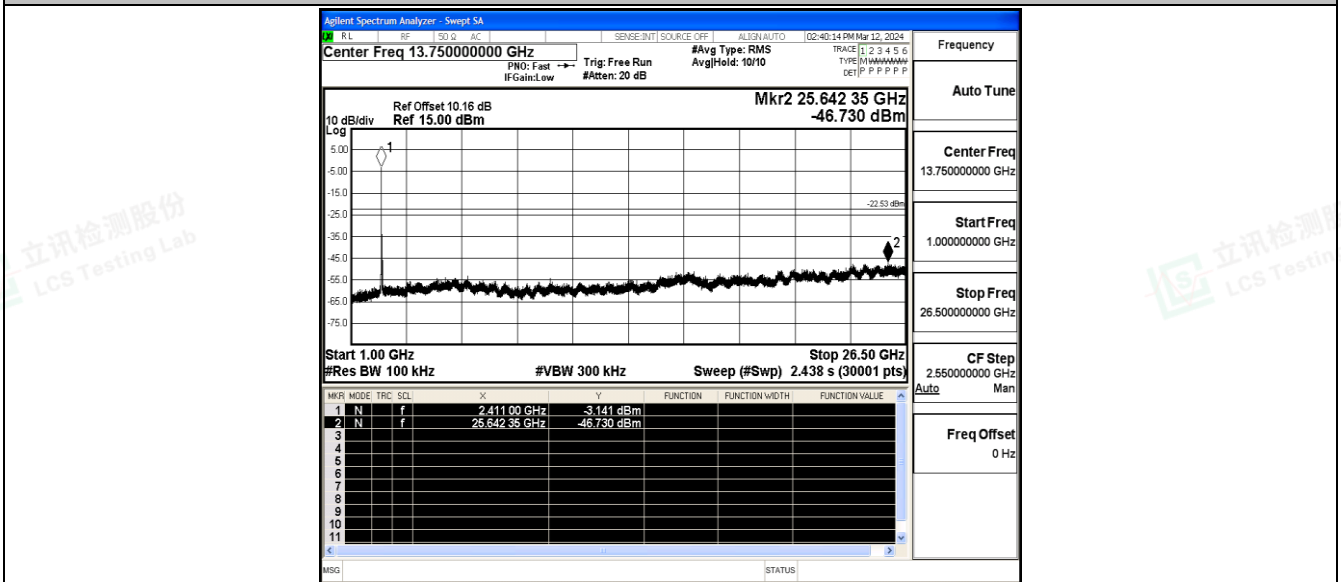


11G\_Ant1\_2412\_30~1000



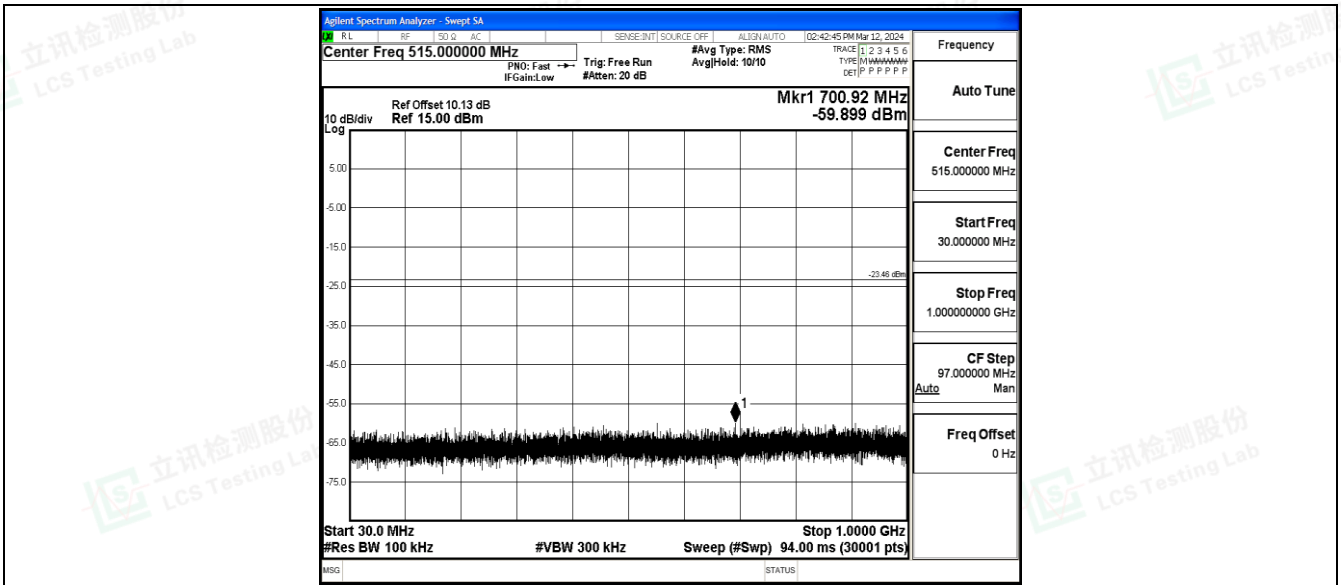


11G\_Ant1\_2412\_1000~26500

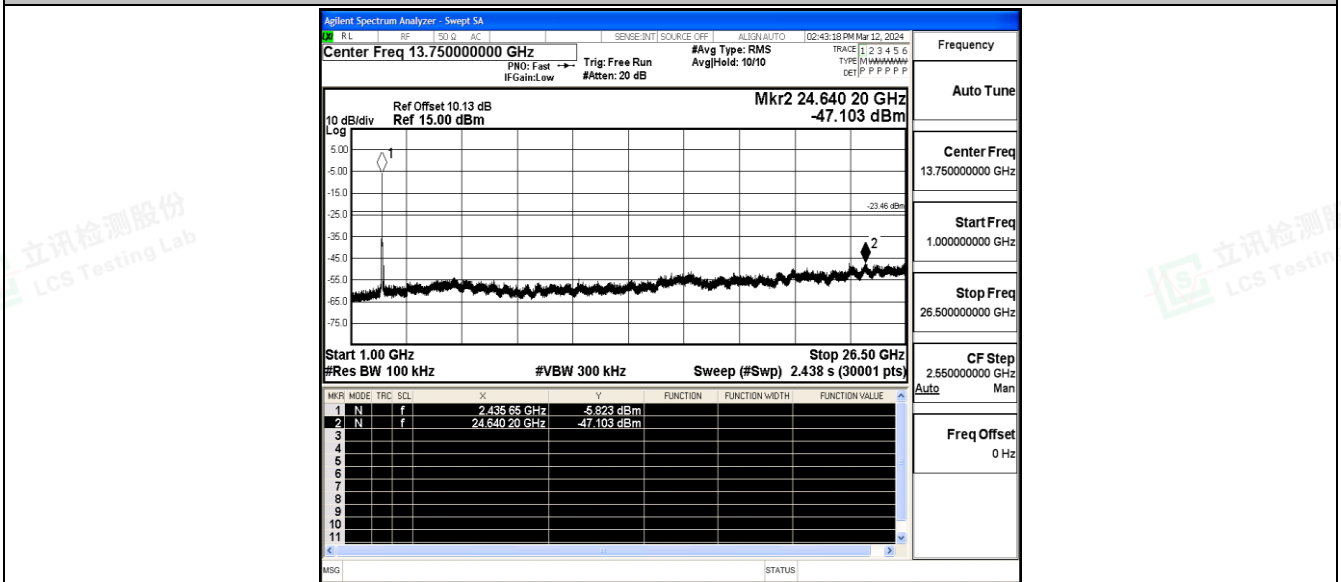


11G\_Ant1\_2437\_30~1000



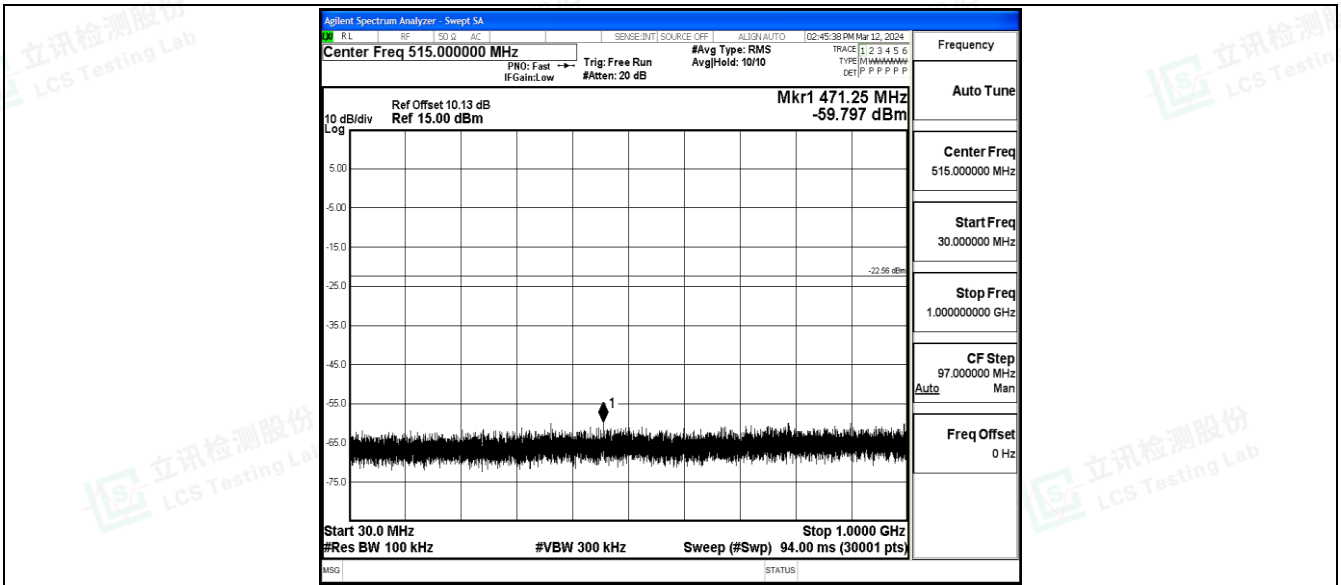


11G\_Ant1\_2437\_1000~26500

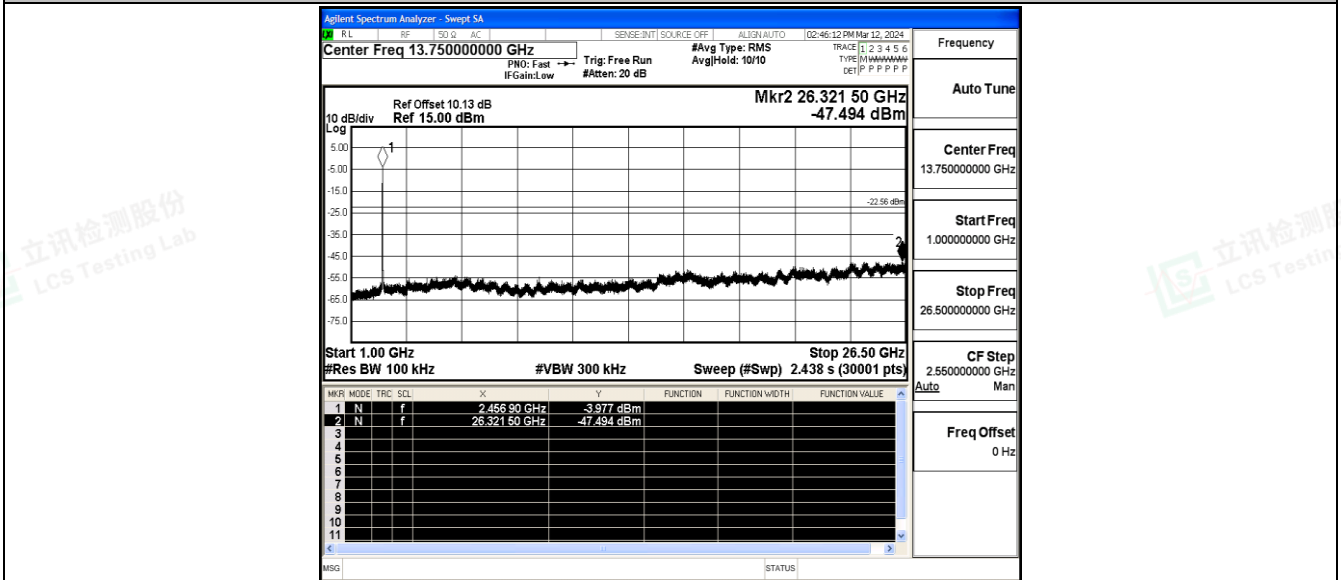


11G\_Ant1\_2462\_30~1000



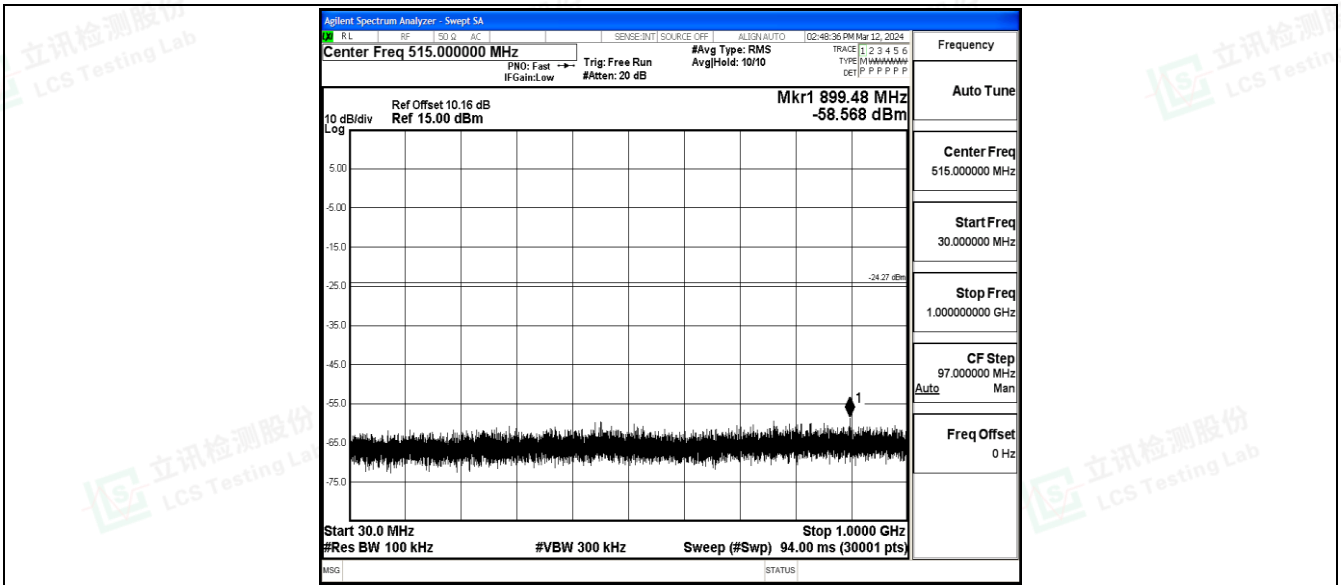


11G\_Ant1\_2462\_1000~26500

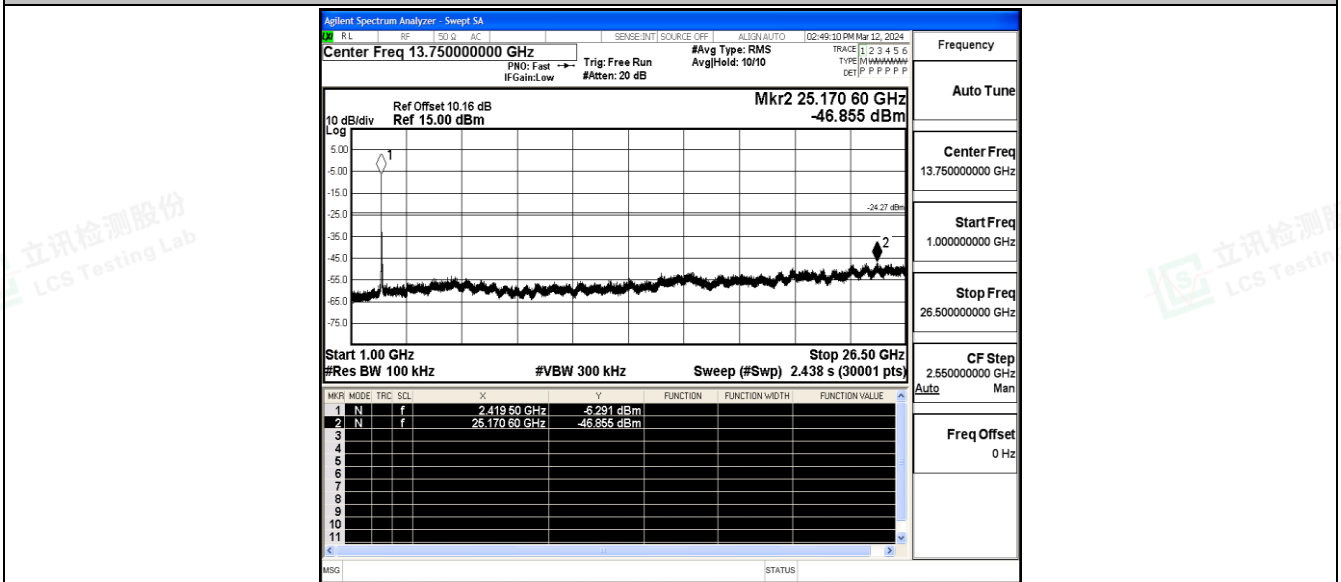


11N20SISO\_Ant1\_2412\_30~1000



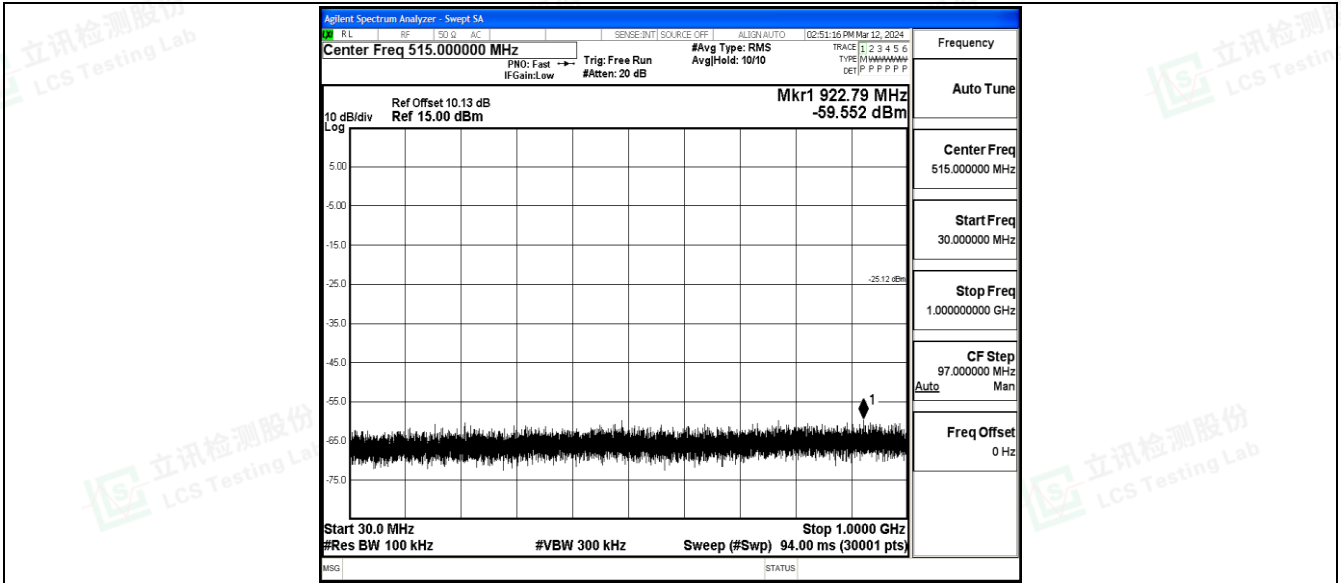


11N20SISO\_Ant1\_2412\_1000~26500

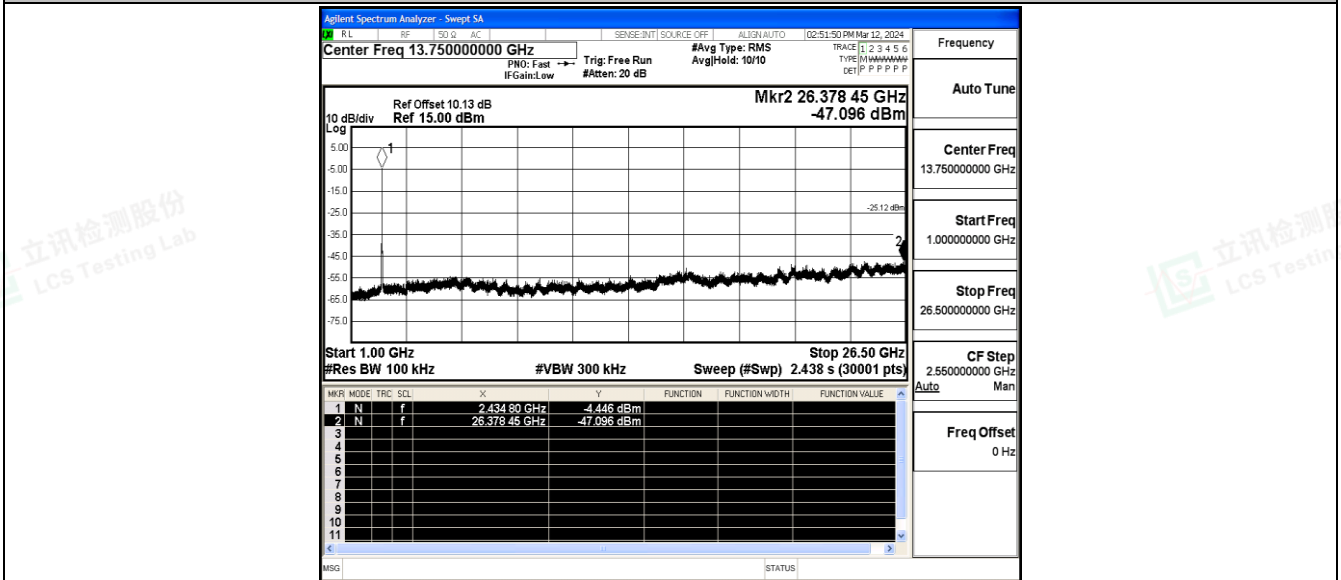


11N20SISO\_Ant1\_2437\_30~1000





11N20SISO\_Ant1\_2437\_1000~26500



11N20SISO\_Ant1\_2462\_30~1000

