



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: PS4 Bluetooth Controller

Test Model: SZ-4005B

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Joker Hu
Supervised by:	Nick Peng





A.1 20dB Emission Bandwidth

Test Result

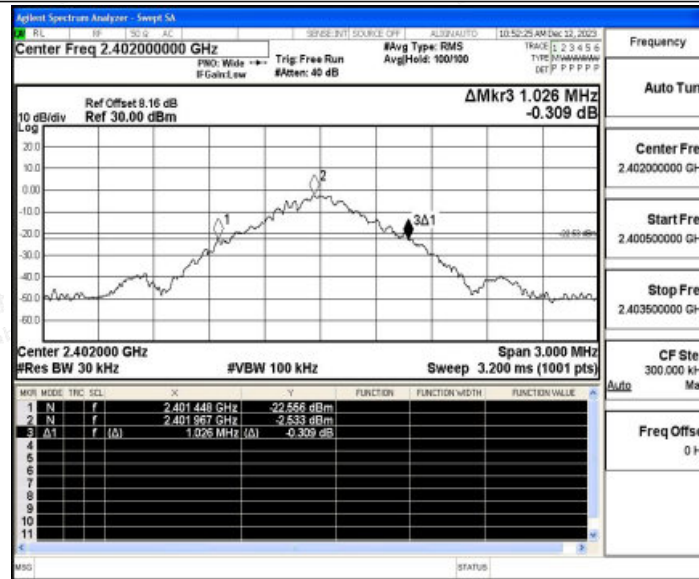
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	1.026	2401.448	2402.474	---
		2441	0.957	2440.523	2441.480	---
		2480	1.026	2479.463	2480.489	---
2DH5	Ant1	2402	1.308	2401.337	2402.645	---
		2441	1.296	2440.352	2441.648	---
		2480	1.293	2479.352	2480.645	---
3DH5	Ant1	2402	1.284	2401.352	2402.636	---
		2441	1.302	2440.337	2441.639	---
		2480	1.314	2479.331	2480.645	---



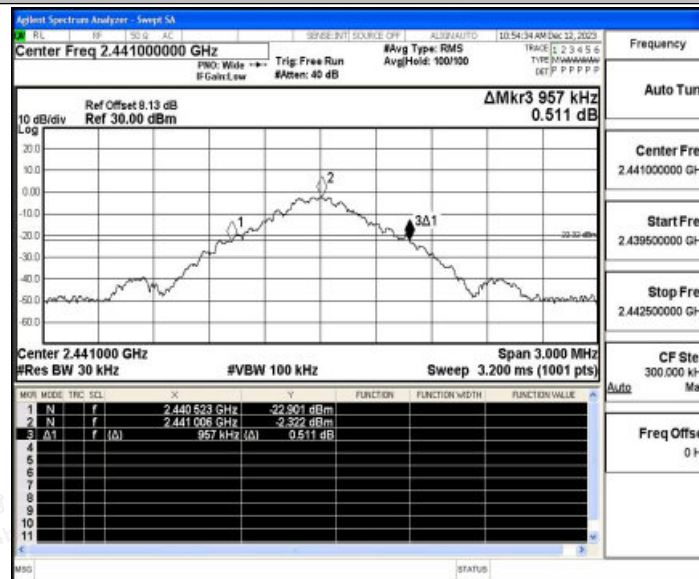


Test Graphs

DH5_Ant1_2402

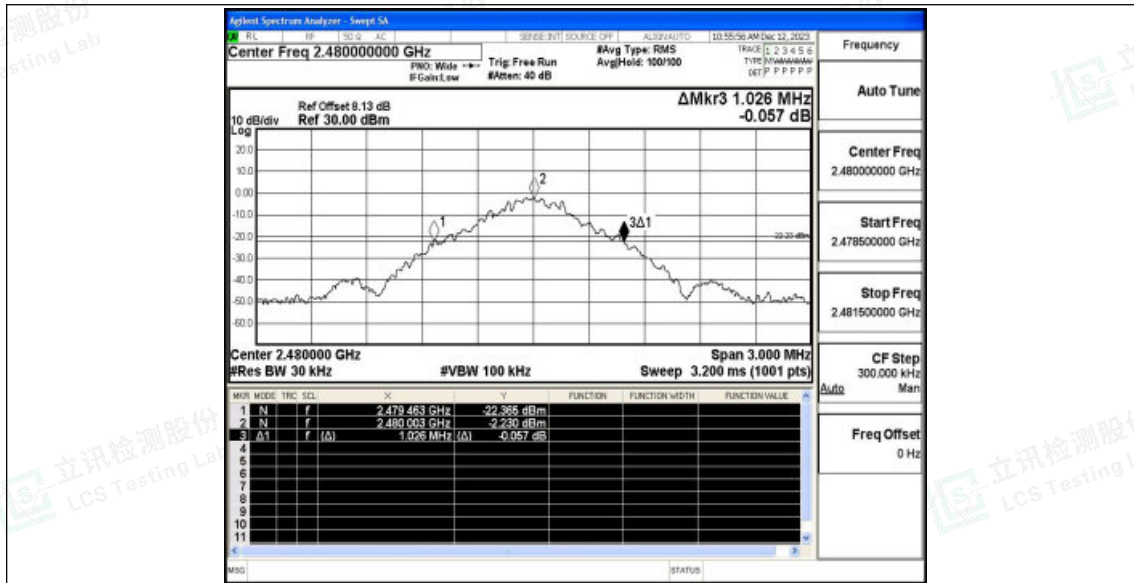


DH5_Ant1_2441

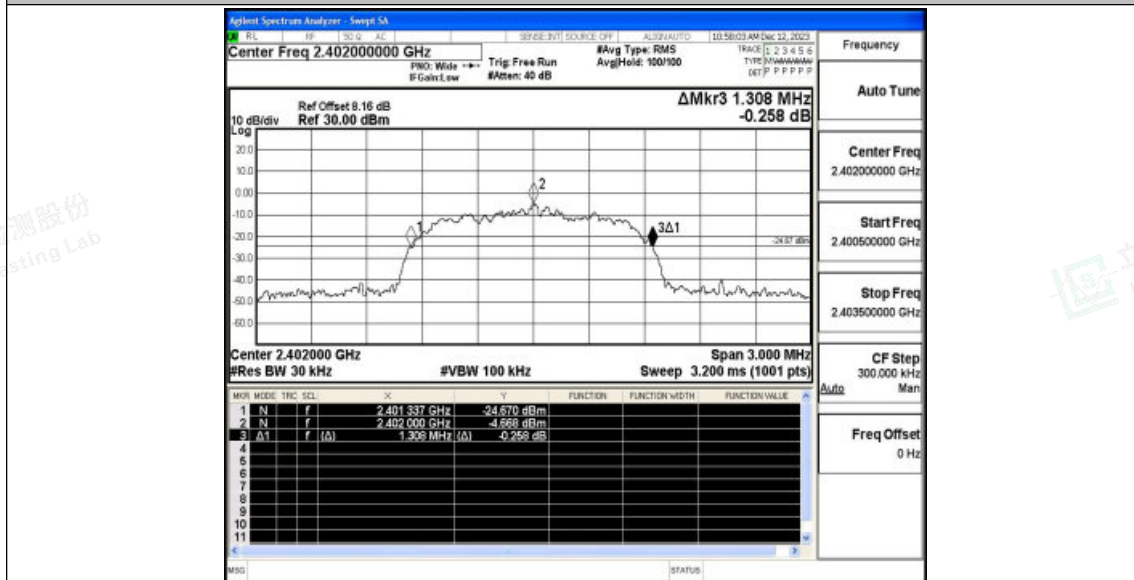


DH5_Ant1_2480



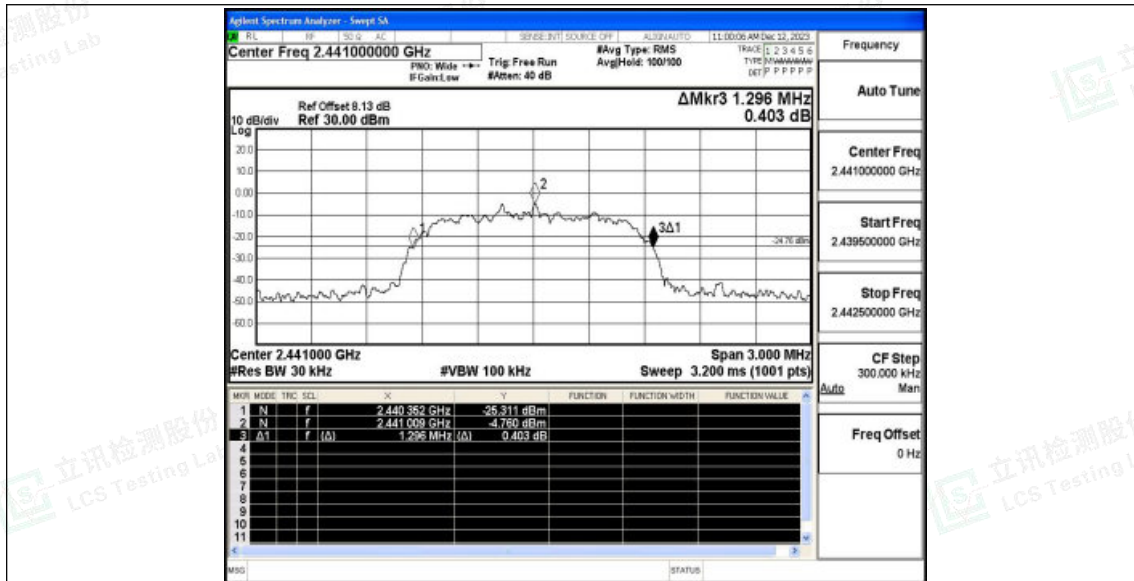


2DH5_Ant1_2402

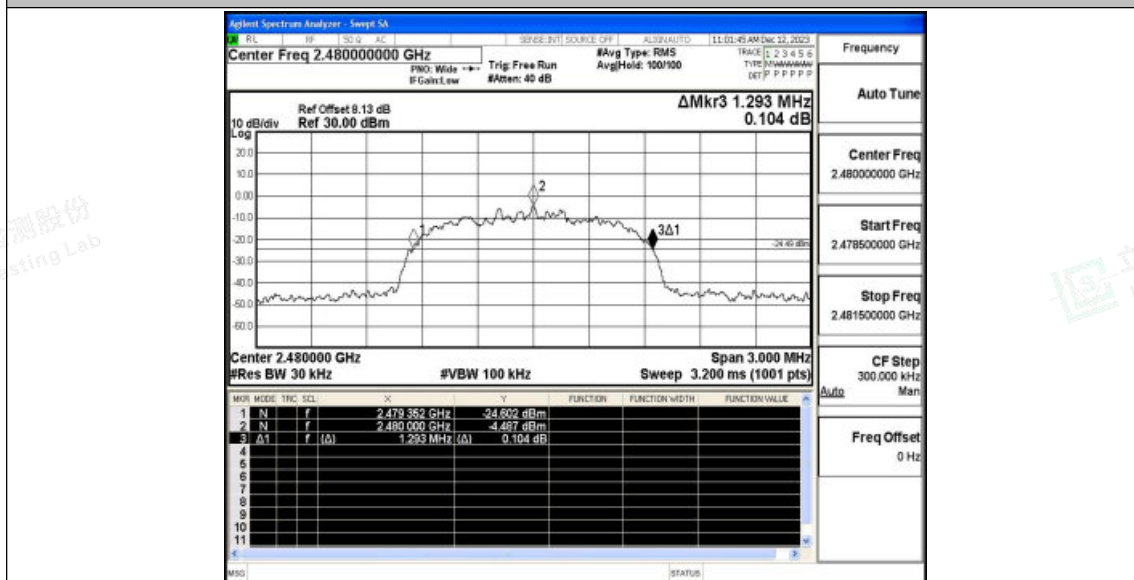


2DH5_Ant1_2441



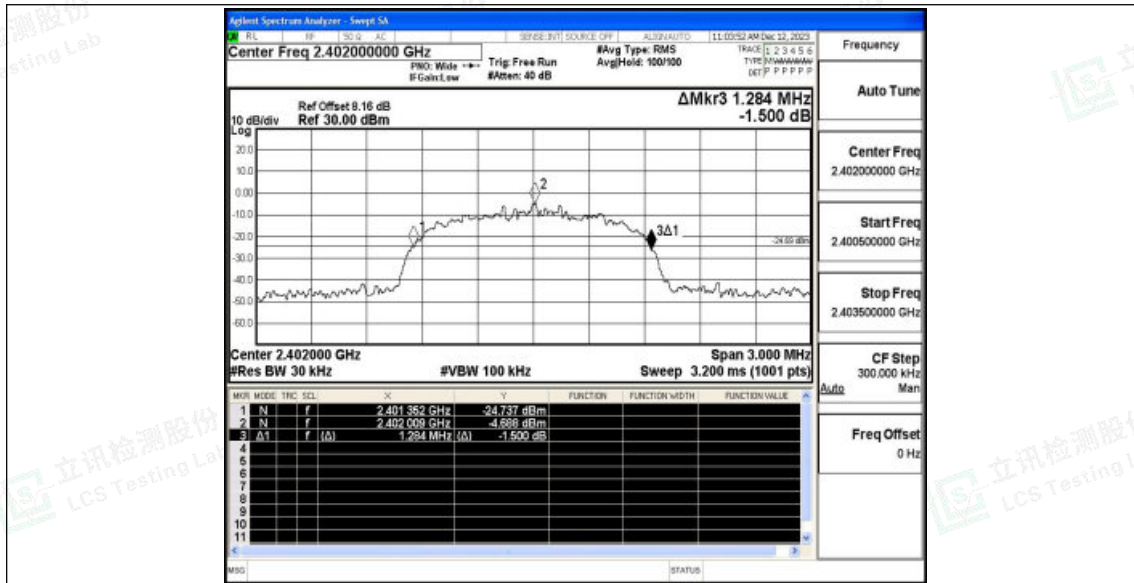


2DH5_Ant1_2480

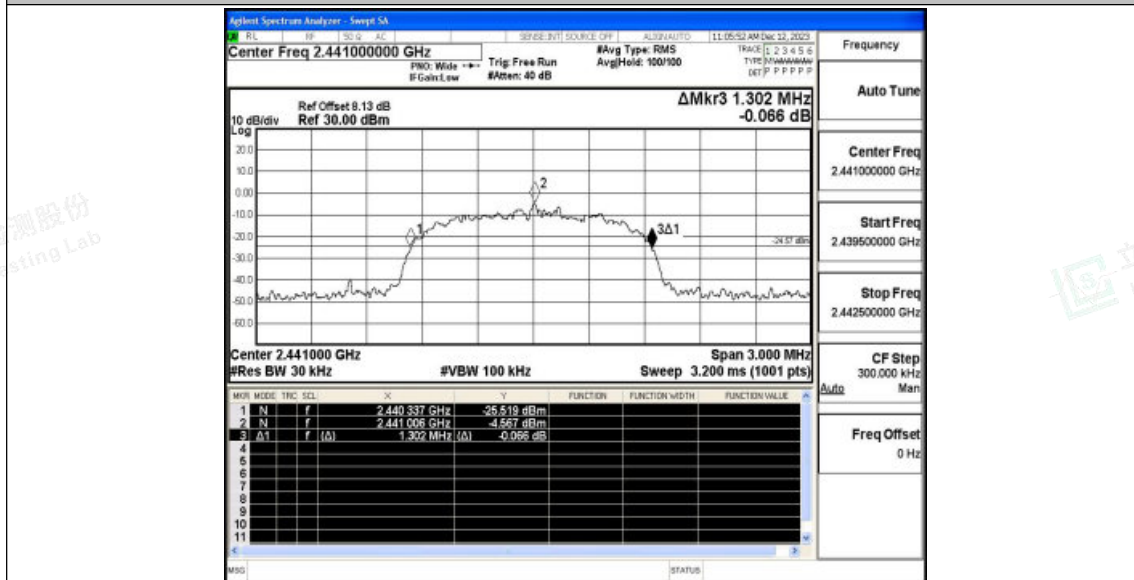


3DH5_Ant1_2402



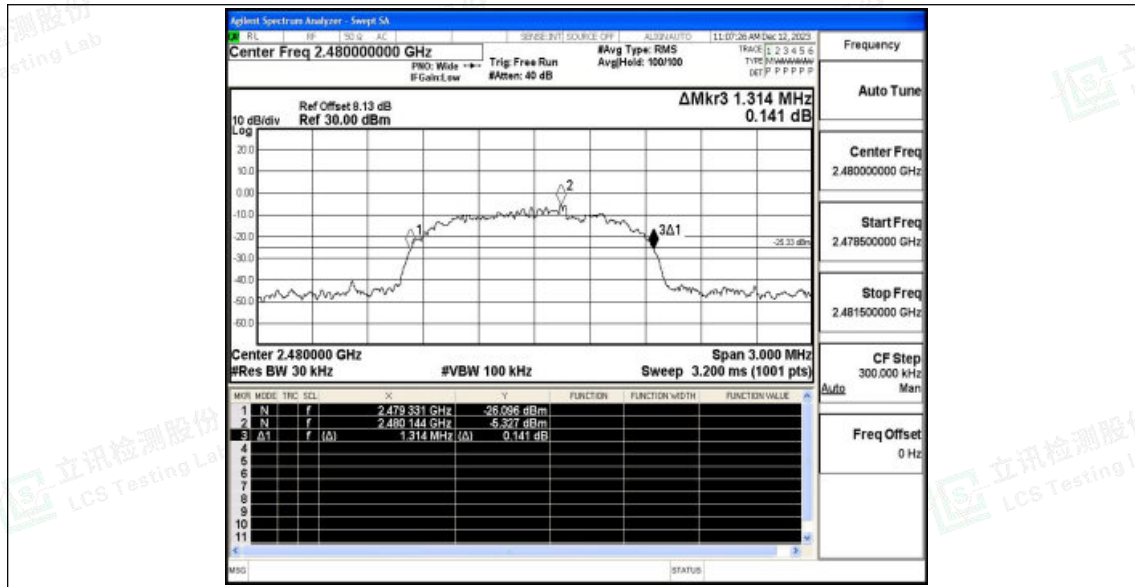


3DH5_Ant1_2441



3DH5_Ant1_2480







A.2 Maximum peak conducted output power

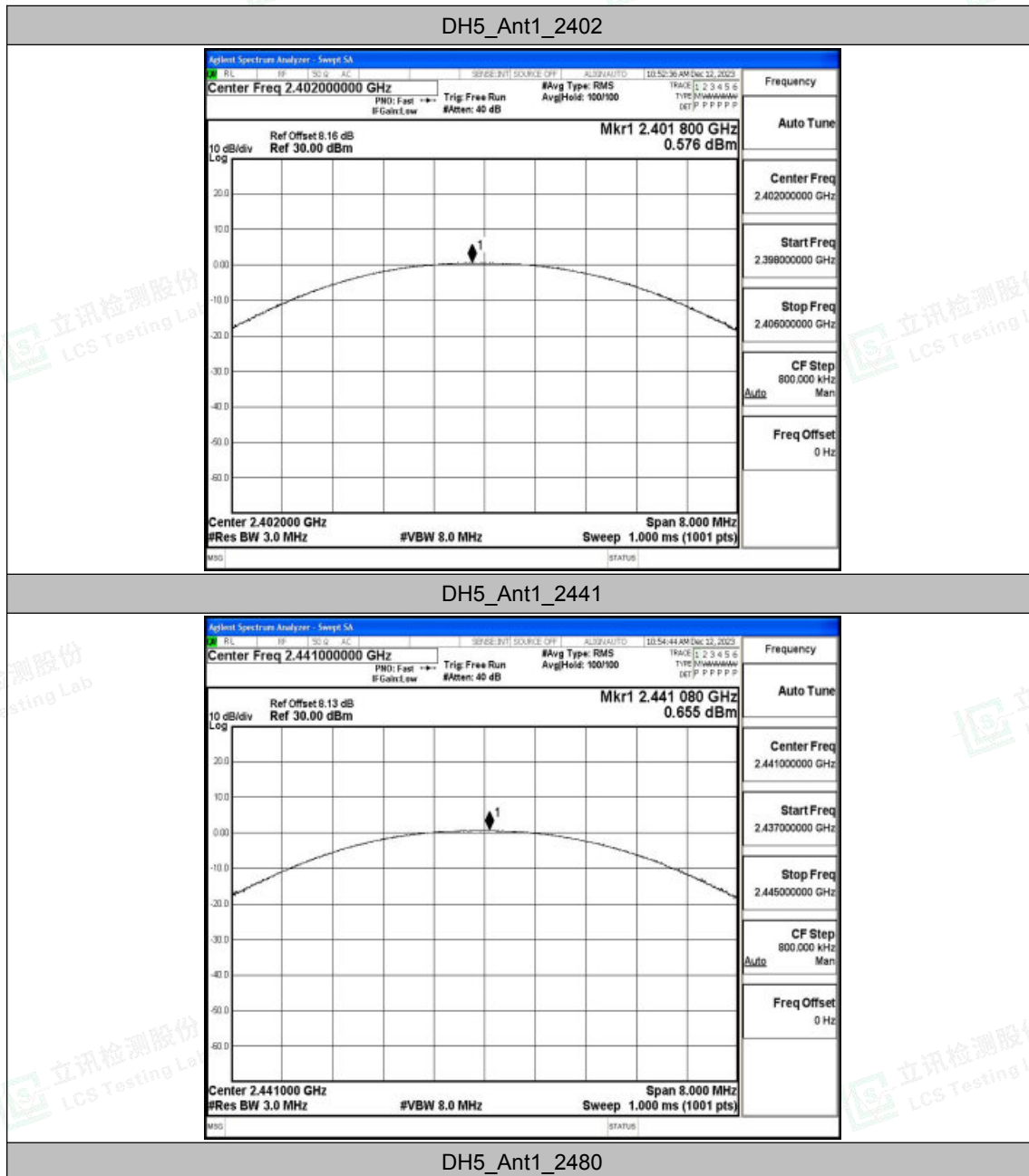
Test Result

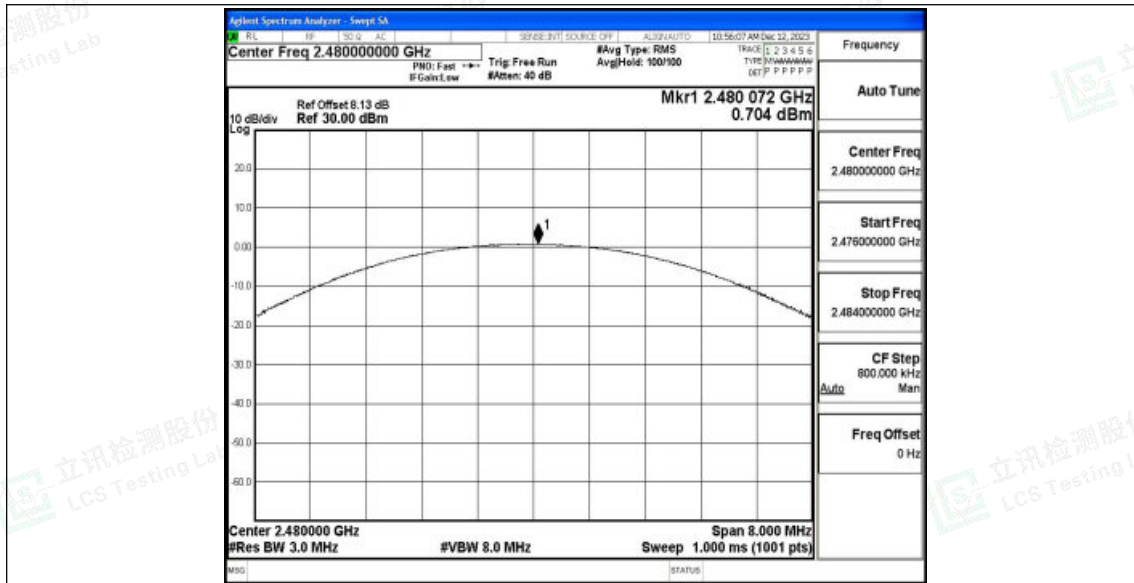
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.58	≤20.97	PASS
		2441	0.66	≤20.97	PASS
		2480	0.7	≤20.97	PASS
2DH5	Ant1	2402	0.25	≤20.97	PASS
		2441	0.44	≤20.97	PASS
		2480	0.43	≤20.97	PASS
3DH5	Ant1	2402	0.38	≤20.97	PASS
		2441	0.54	≤20.97	PASS
		2480	0.6	≤20.97	PASS



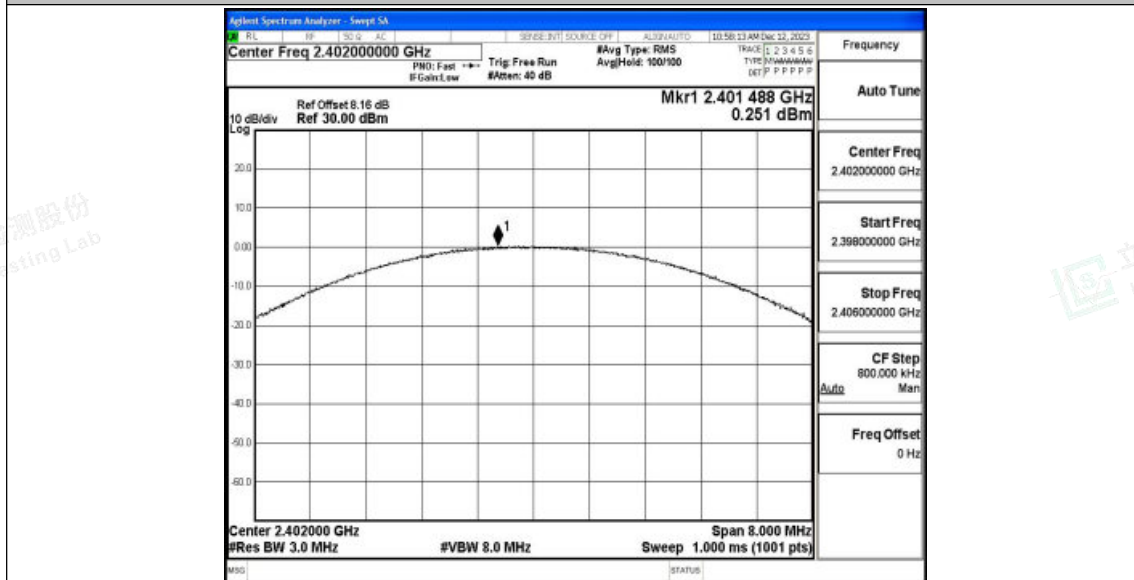


Test Graphs



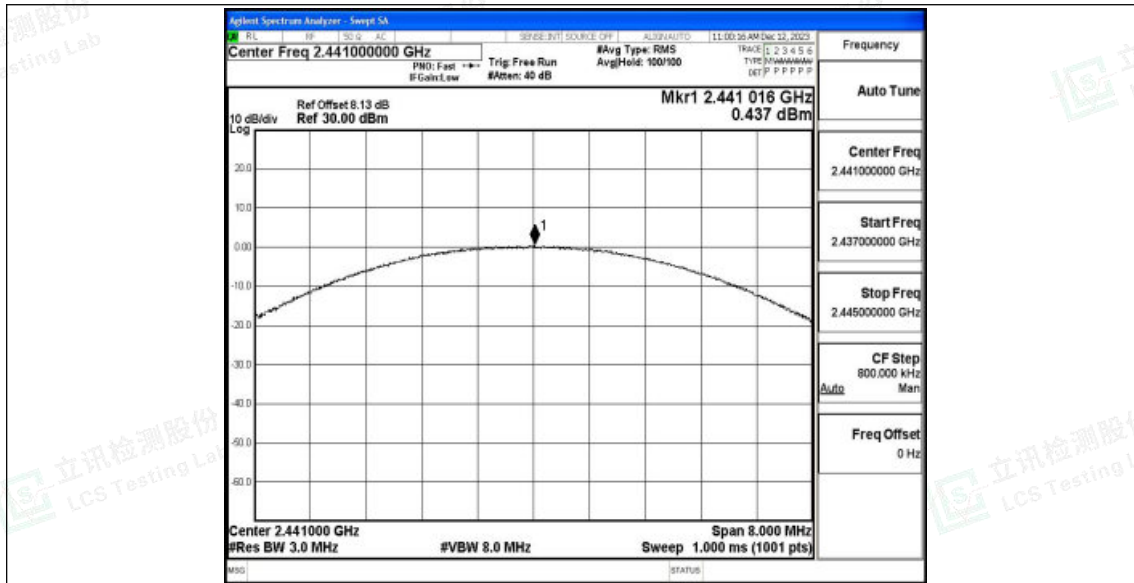


2DH5_Ant1_2402

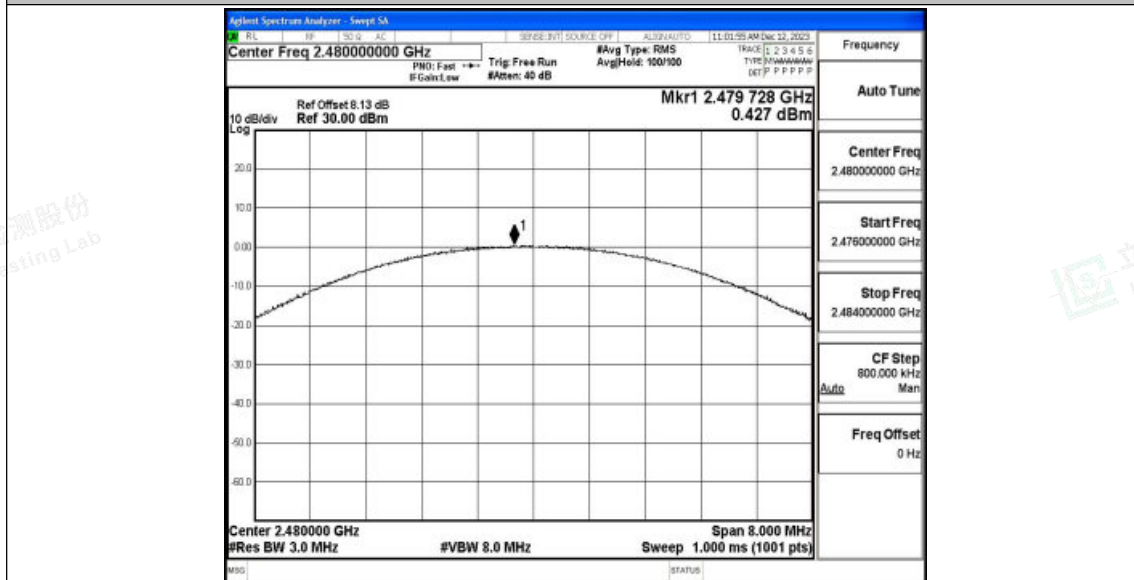


2DH5_Ant1_2441



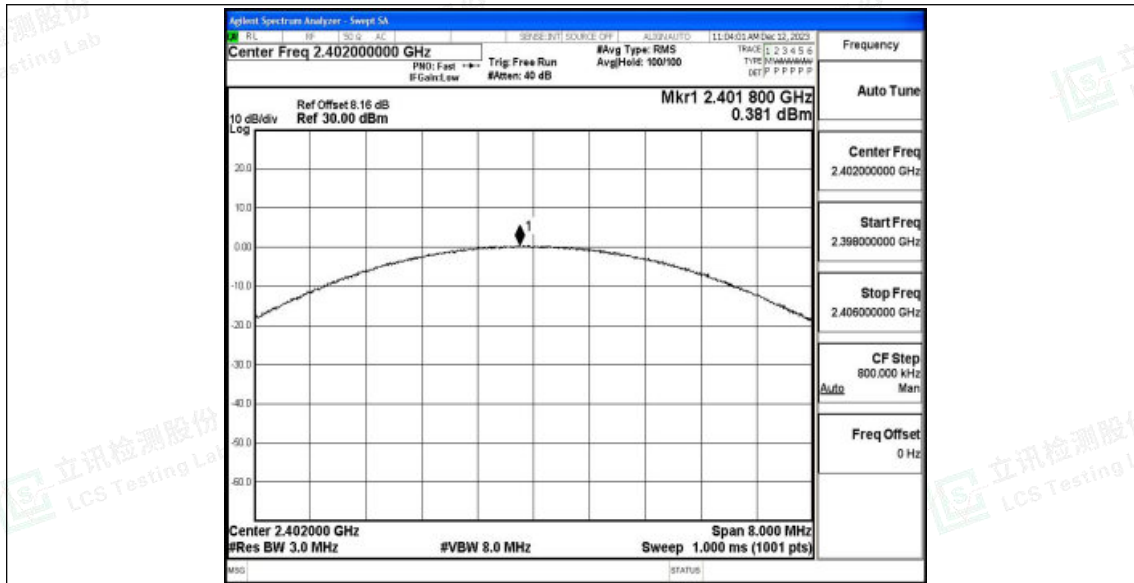


2DH5_Ant1_2480

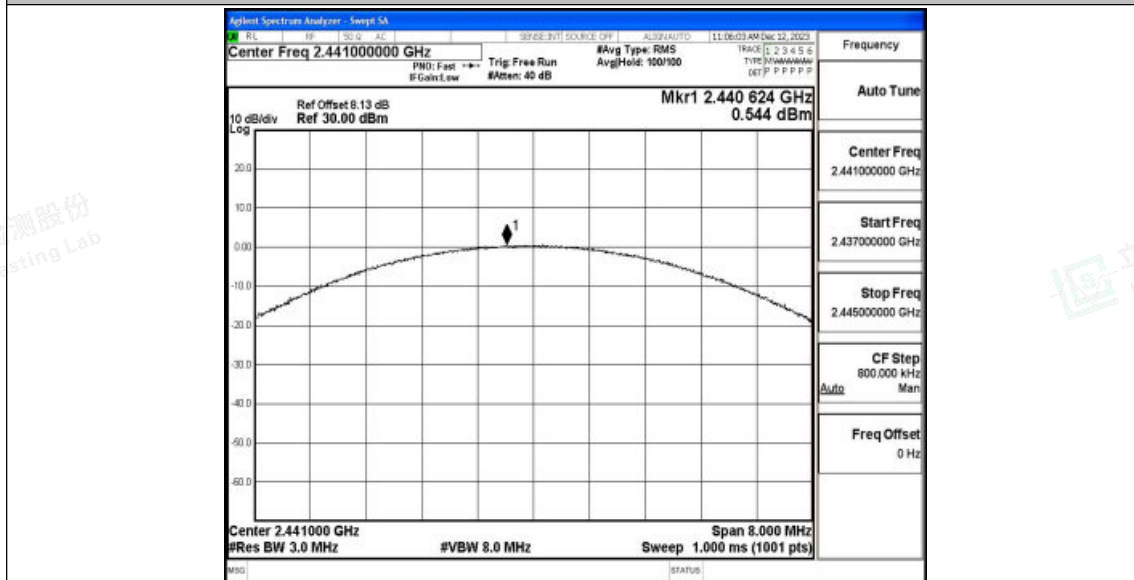


3DH5_Ant1_2402



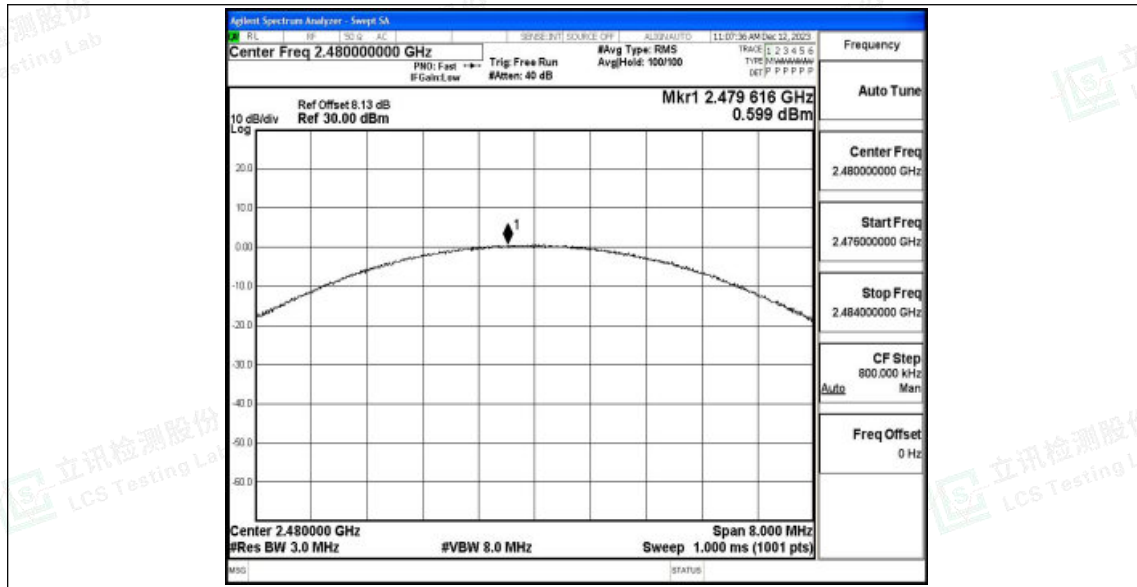


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Carrier frequency separation

Test Result

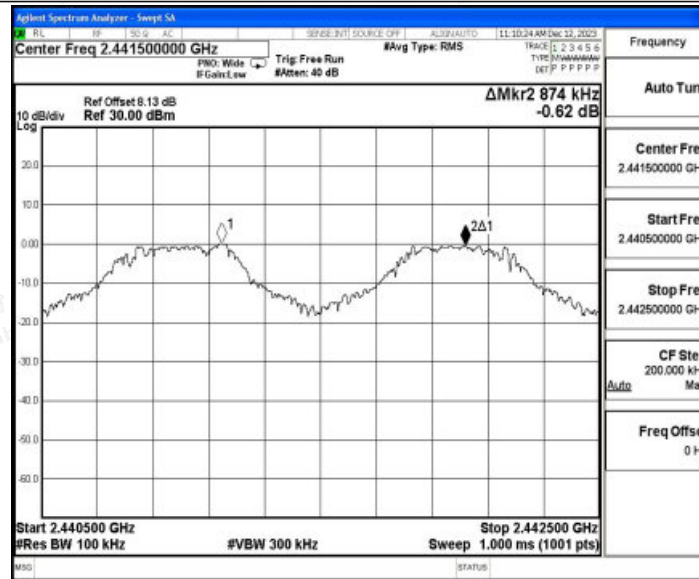
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.874	≥ 0.684	PASS
2DH5	Ant1	Hop	1.012	≥ 0.872	PASS
3DH5	Ant1	Hop	1.274	≥ 0.876	PASS



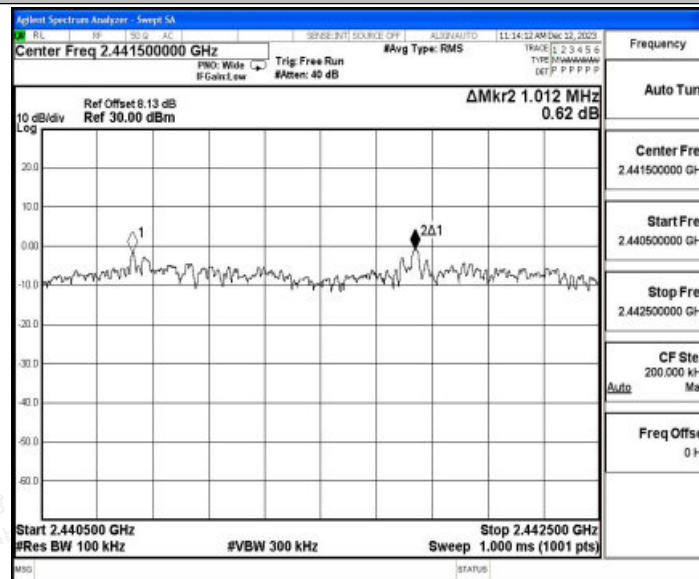


Test Graphs

DH5_Ant1_Hop

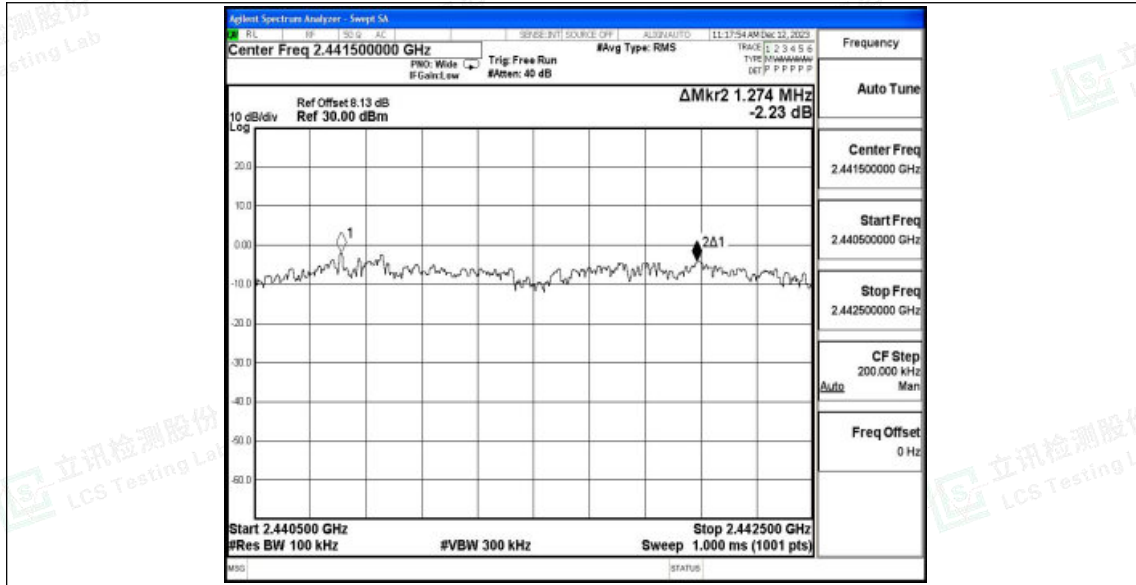


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.4 Time of occupancy

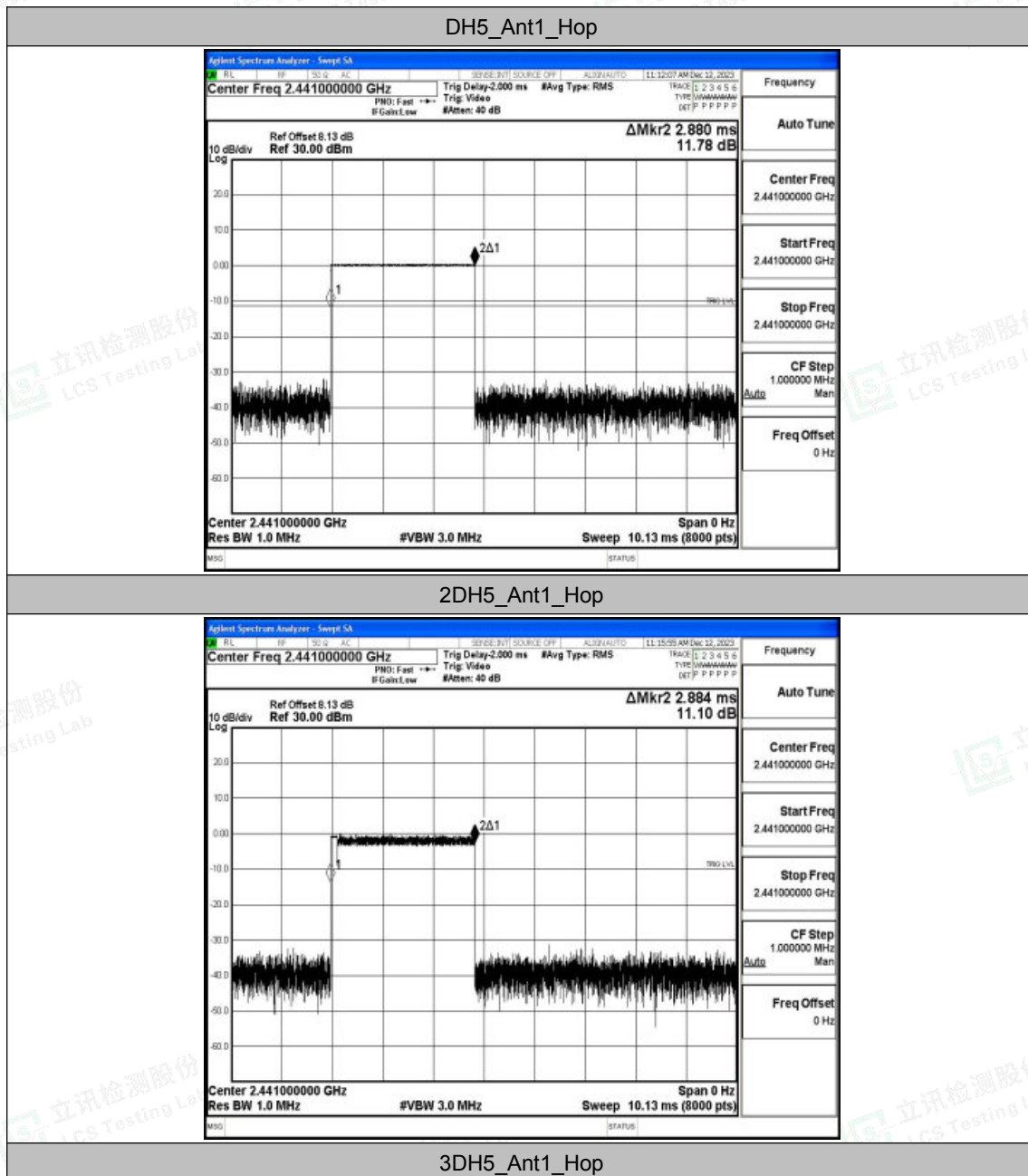
Test Result

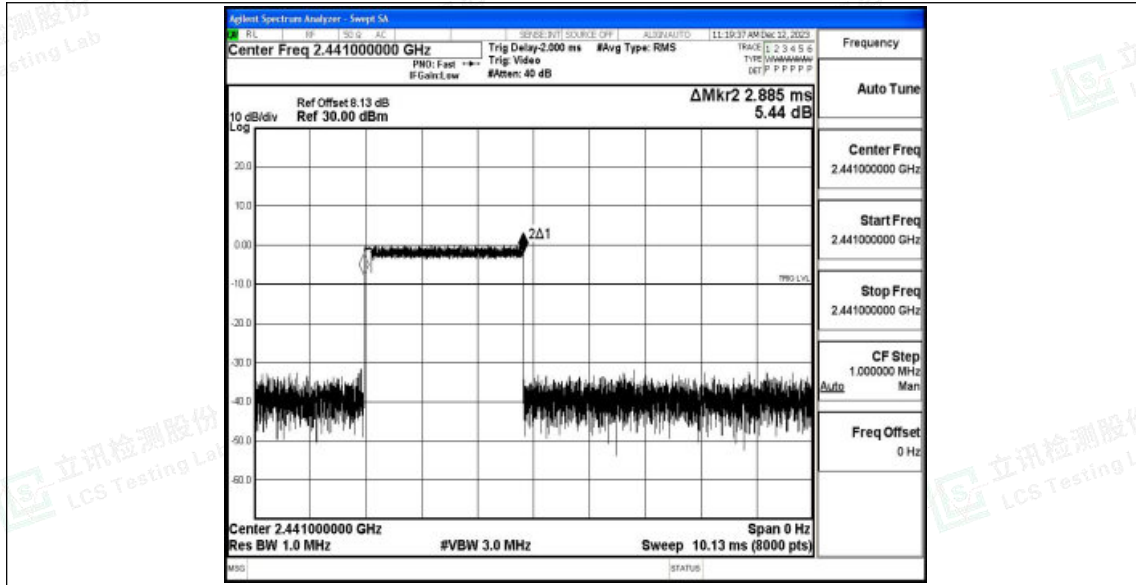
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.884	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.885	106.67	0.308	≤0.4	PASS





Test Graphs







A.5 Number of hopping channels

Test Result

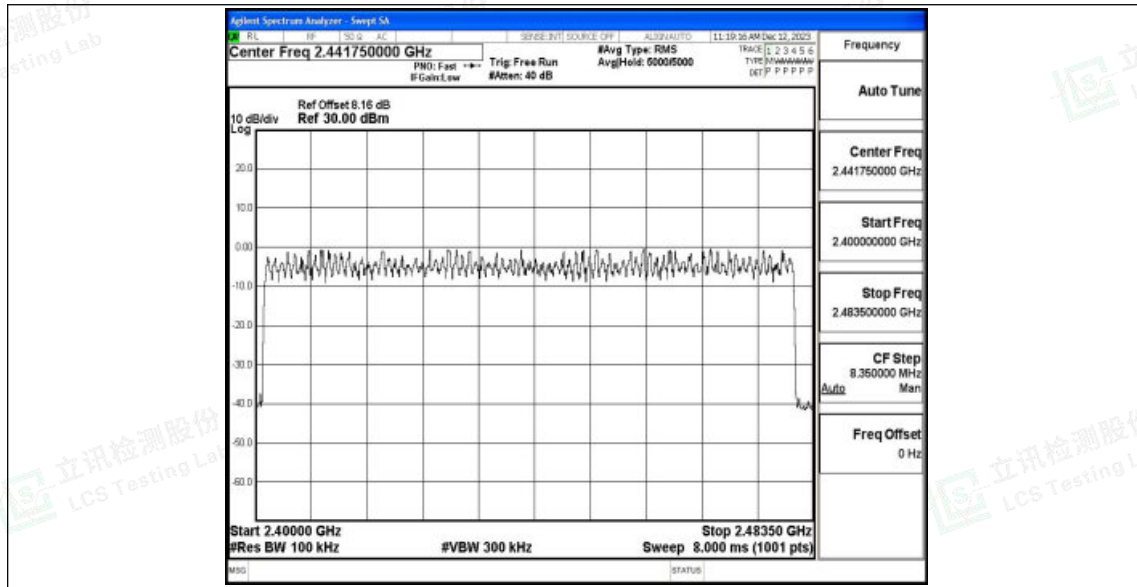
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS





Test Graphs







A.6 Band edge measurements

Test Result

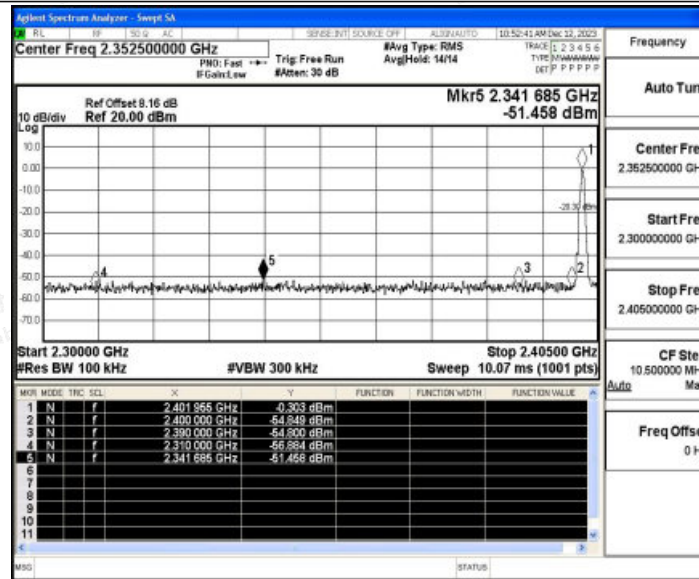
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.30	-51.46	≤-20.3	PASS
		High	2480	0.15	-50.48	≤-19.86	PASS
		Low	Hop_2402	-0.74	-49.66	≤-20.74	PASS
		High	Hop_2480	0.20	-49.18	≤-19.8	PASS
2DH5	Ant1	Low	2402	-1.85	-51.24	≤-21.85	PASS
		High	2480	-2.03	-51.24	≤-22.03	PASS
		Low	Hop_2402	-1.37	-50.09	≤-21.37	PASS
		High	Hop_2480	-1.13	-48.93	≤-21.13	PASS
3DH5	Ant1	Low	2402	-1.57	-50.51	≤-21.57	PASS
		High	2480	-5.22	-50.37	≤-25.22	PASS
		Low	Hop_2402	-4.89	-49.88	≤-24.89	PASS
		High	Hop_2480	-0.56	-48.82	≤-20.56	PASS



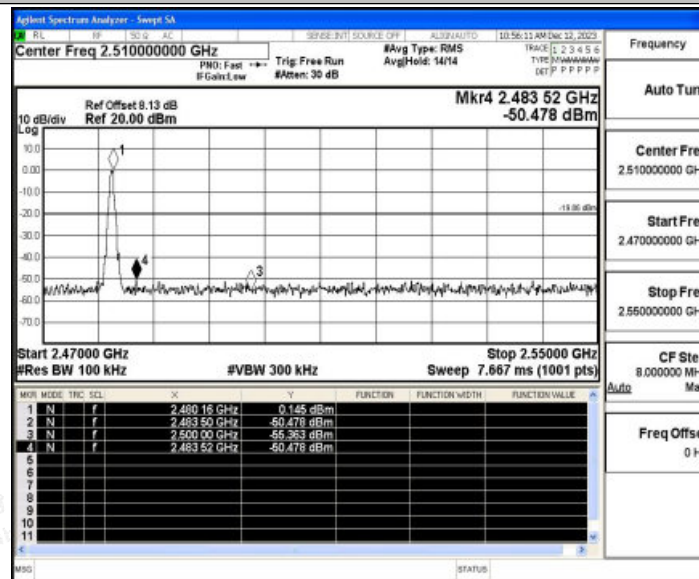


Test Graphs

DH5_Ant1_Low_2402

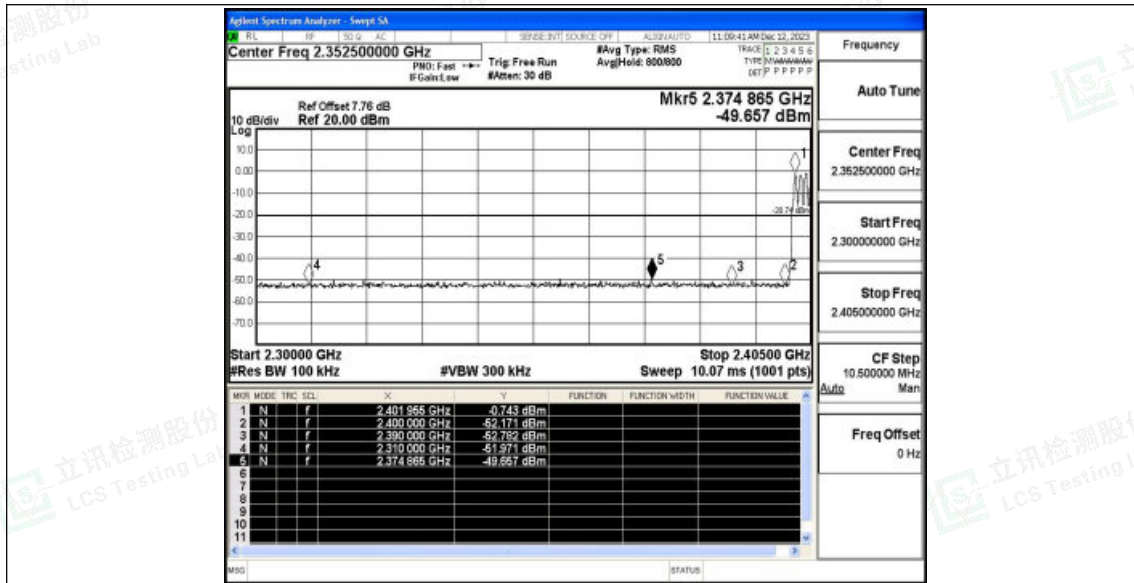


DH5_Ant1_High_2480

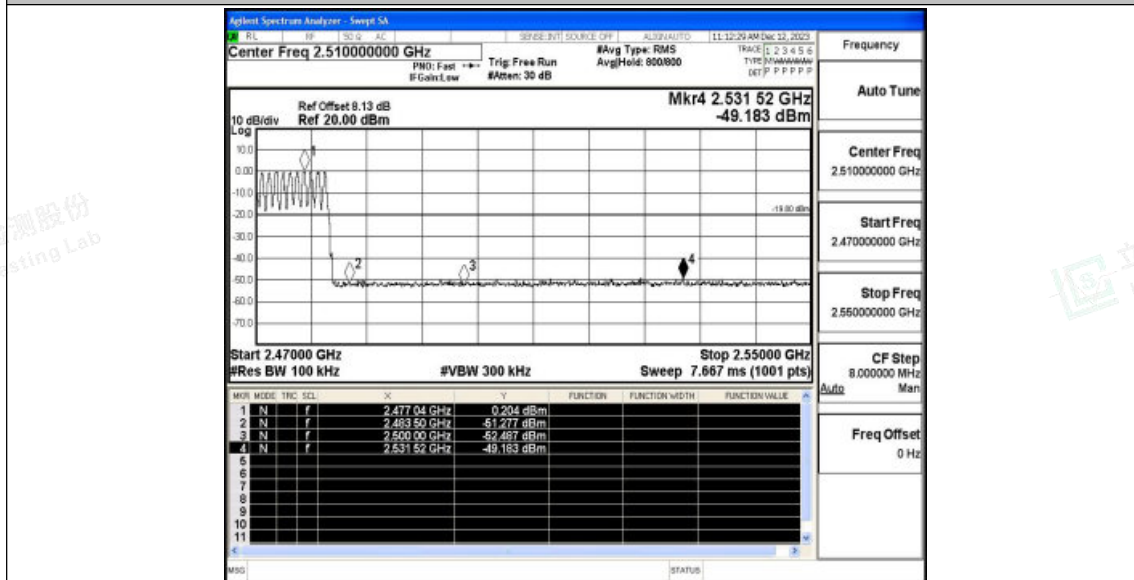


DH5_Ant1_Low_Hop_2402



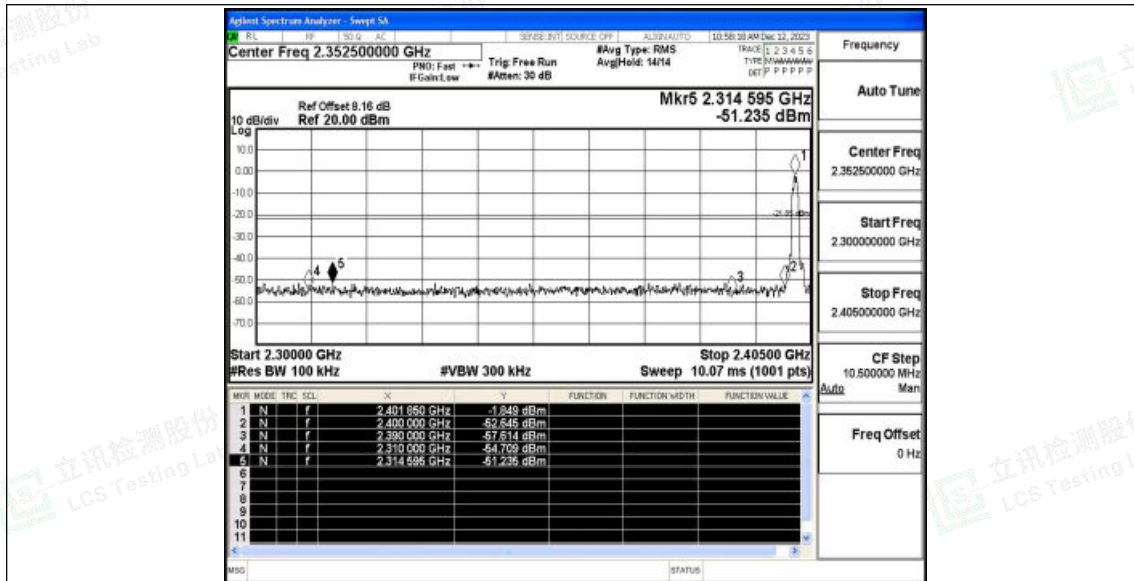


DH5_Ant1_High_Hop_2480

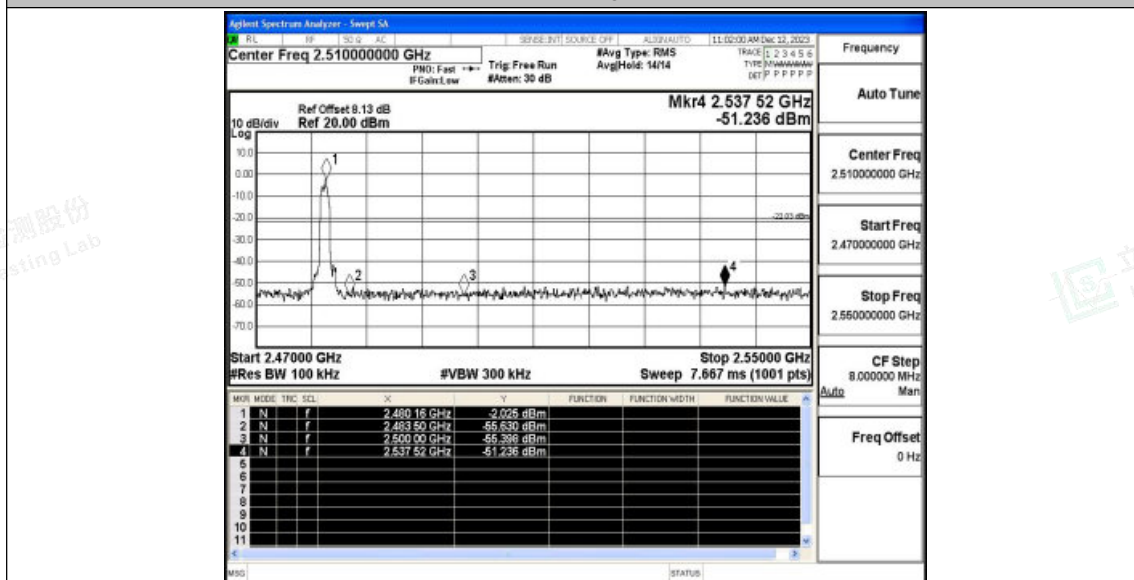


2DH5_Ant1_Low_2402



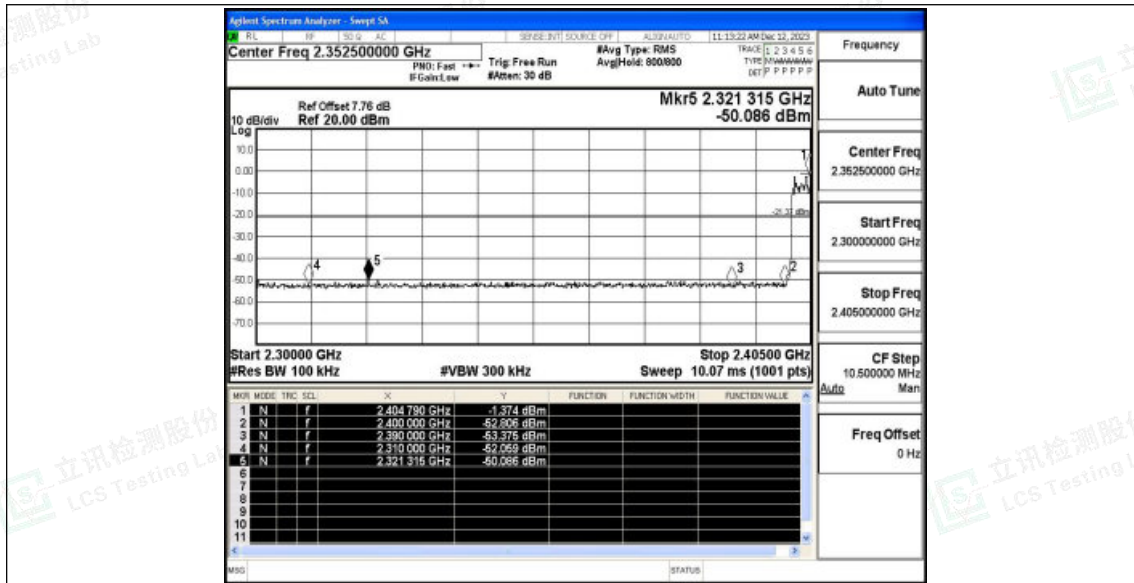


2DH5_Ant1_High_2480

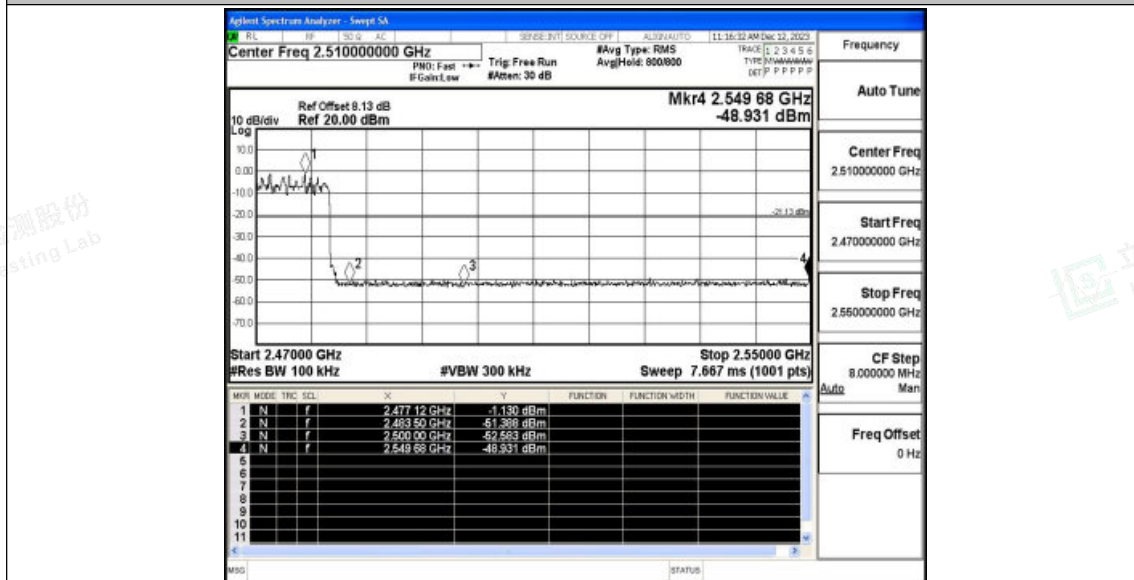


2DH5_Ant1_Low_Hop_2402



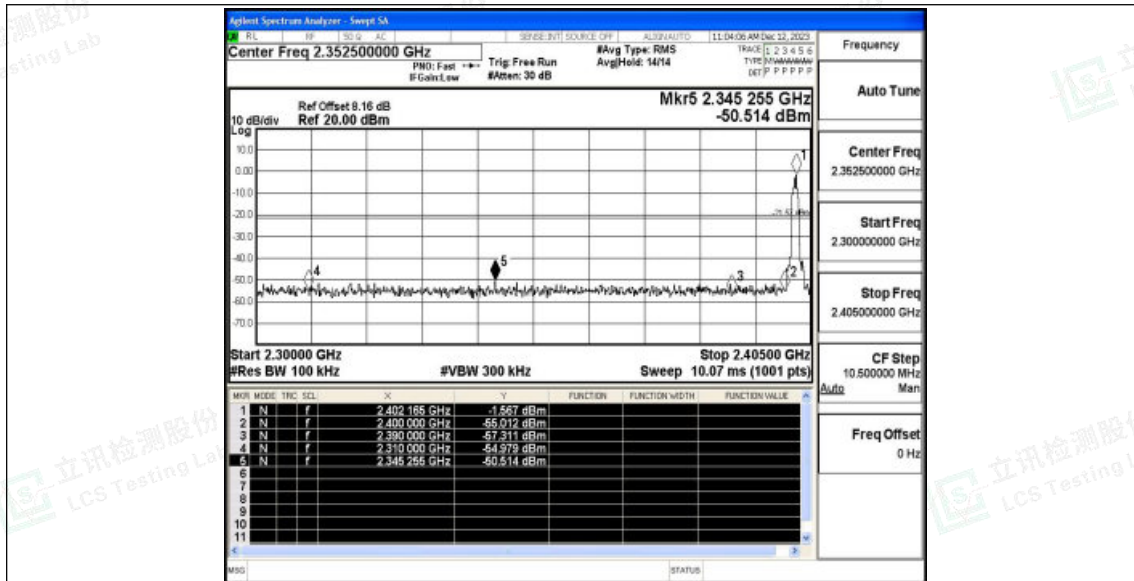


2DH5_Ant1_High_Hop_2480

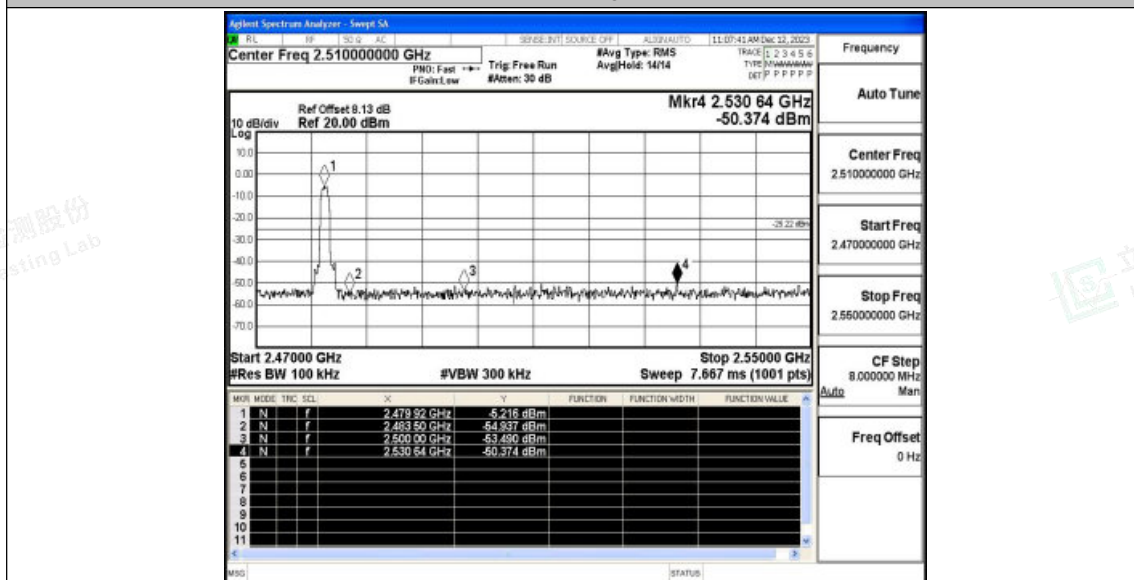


3DH5_Ant1_Low_2402





3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

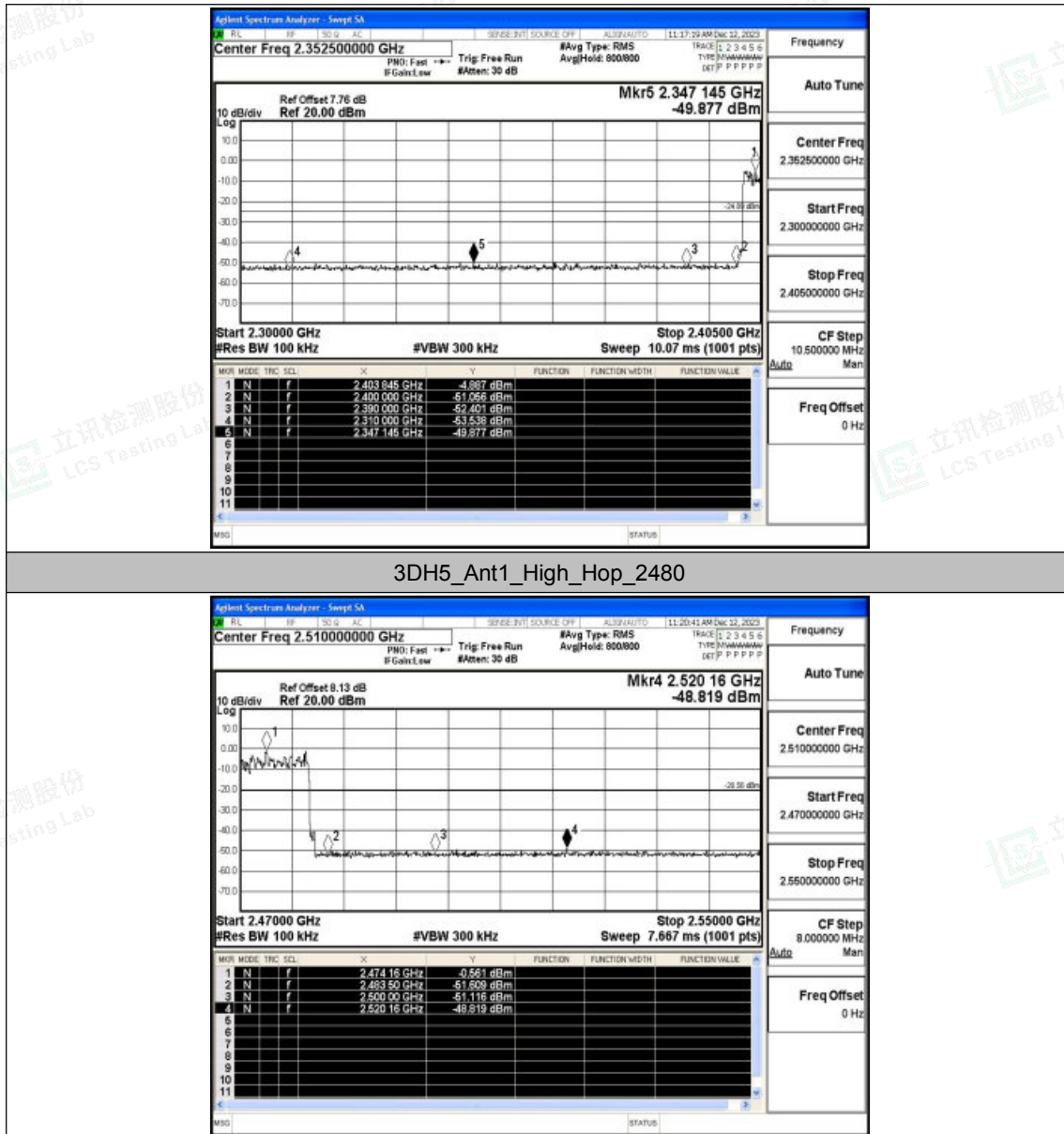


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Scan code to check authenticity





A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.30	-0.30	---	PASS
			30~1000	-0.30	-61.19	≤-20.3	PASS
			1000~26500	-0.30	-48.99	≤-20.3	PASS
		2441	Reference	0.03	0.03	---	PASS
			30~1000	0.03	-61.51	≤-19.97	PASS
			1000~26500	0.03	-49.31	≤-19.97	PASS
		2480	Reference	0.21	0.21	---	PASS
			30~1000	0.21	-61.78	≤-19.79	PASS
			1000~26500	0.21	-48.86	≤-19.79	PASS
2DH5	Ant1	2402	Reference	-1.53	-1.53	---	PASS
			30~1000	-1.53	-61.08	≤-21.53	PASS
			1000~26500	-1.53	-48.23	≤-21.53	PASS
		2441	Reference	-1.63	-1.63	---	PASS
			30~1000	-1.63	-61.62	≤-21.63	PASS
			1000~26500	-1.63	-48.16	≤-21.63	PASS
		2480	Reference	-0.86	-0.86	---	PASS
			30~1000	-0.86	-60.94	≤-20.86	PASS
			1000~26500	-0.86	-49.37	≤-20.86	PASS
3DH5	Ant1	2402	Reference	-2.05	-2.05	---	PASS
			30~1000	-2.05	-62.11	≤-22.05	PASS
			1000~26500	-2.05	-48.82	≤-22.05	PASS
		2441	Reference	-0.96	-0.96	---	PASS
			30~1000	-0.96	-61.11	≤-20.96	PASS
			1000~26500	-0.96	-48.55	≤-20.96	PASS
		2480	Reference	-1.53	-1.53	---	PASS
			30~1000	-1.53	-61.77	≤-21.53	PASS
			1000~26500	-1.53	-48.94	≤-21.53	PASS



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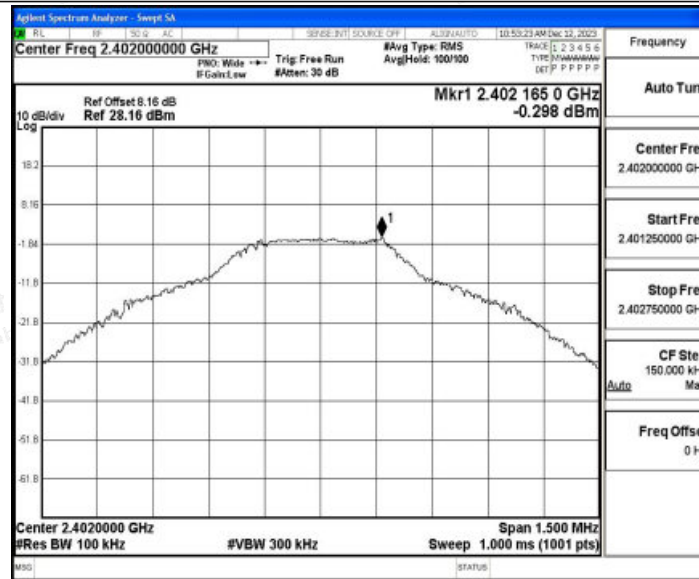
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

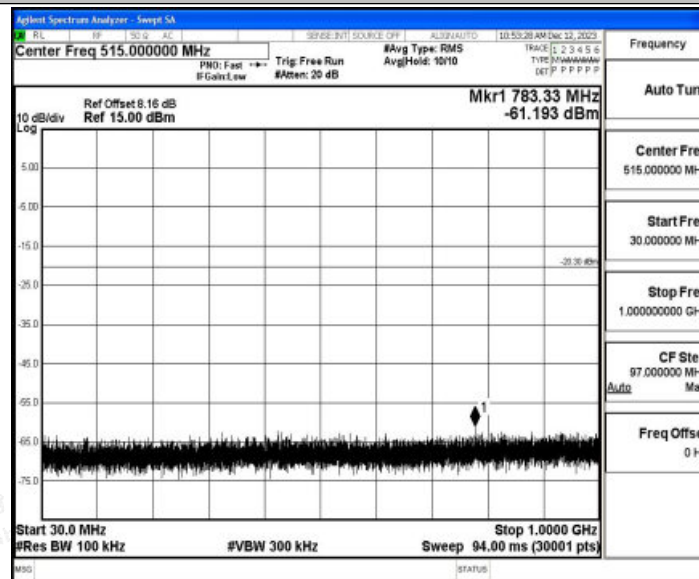


Test Graphs

DH5_Ant1_2402_0~Reference

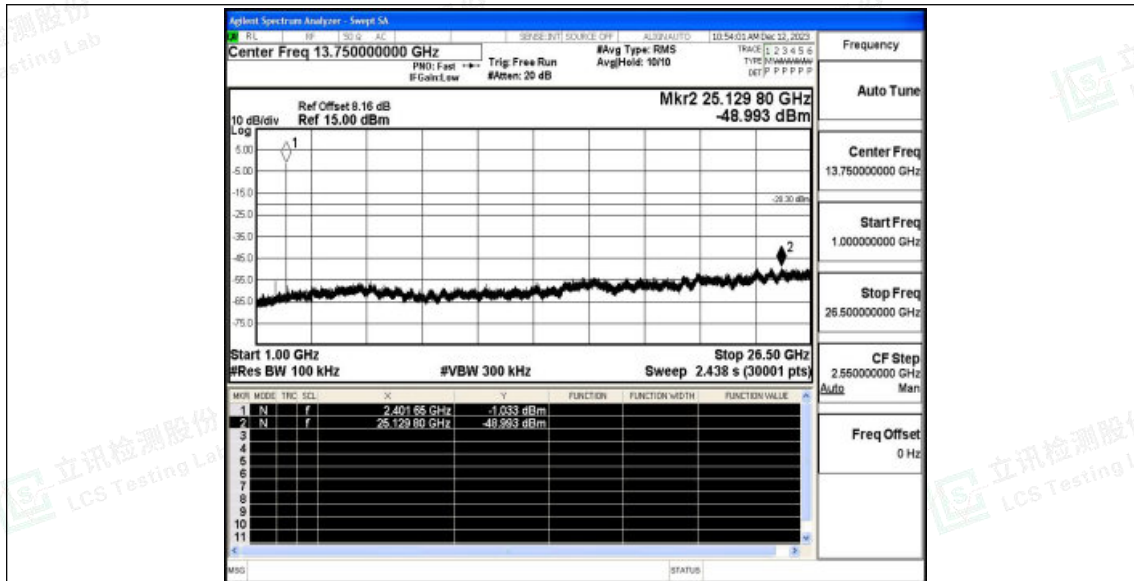


DH5_Ant1_2402_30~1000

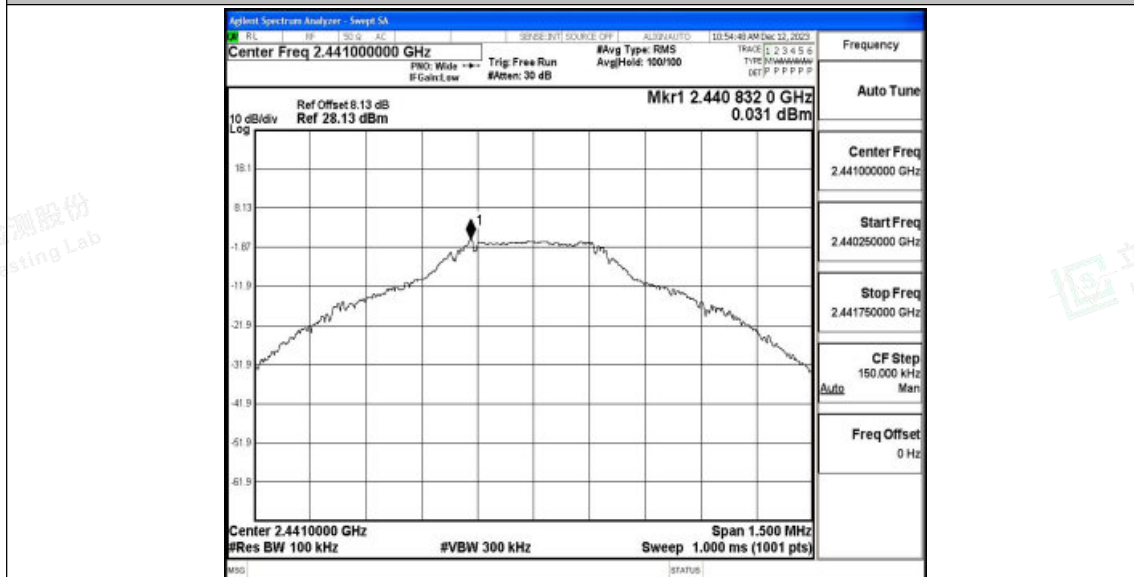


DH5_Ant1_2402_1000~26500



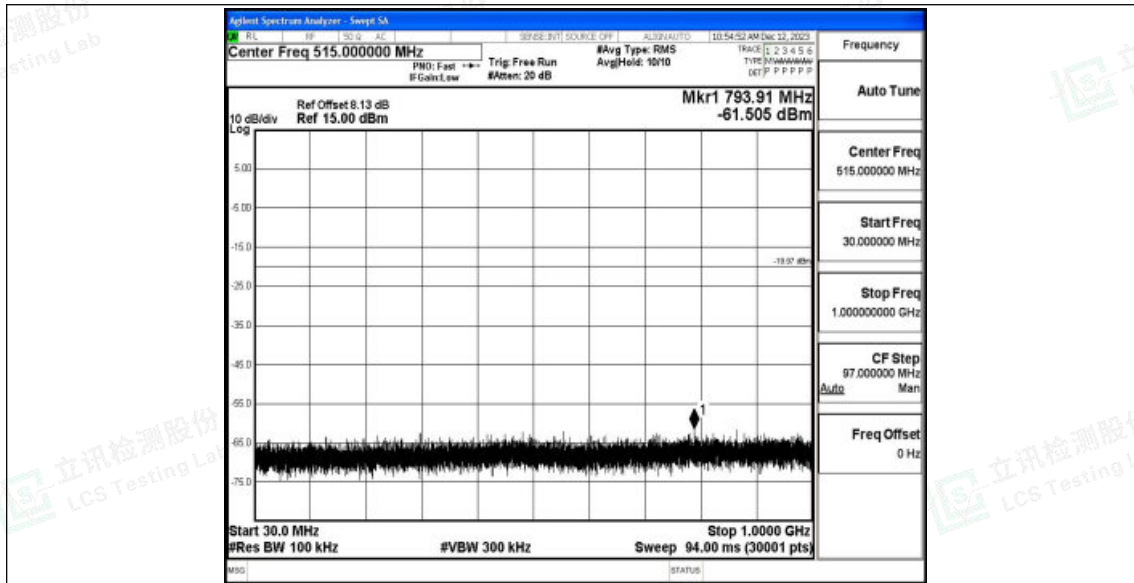


DH5_Ant1_2441_0~Reference

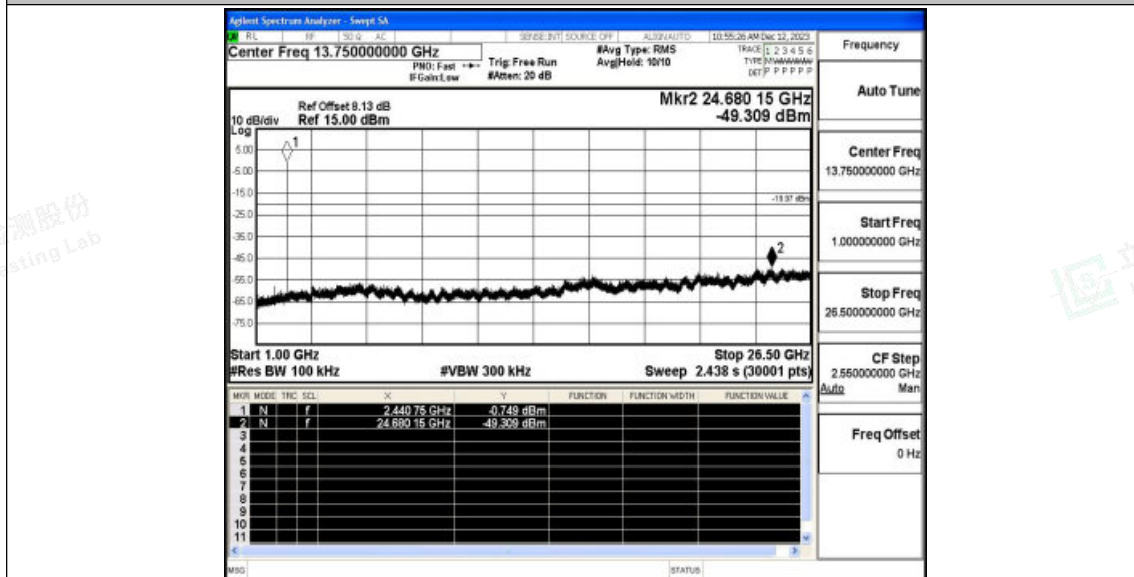


DH5_Ant1_2441_30~1000



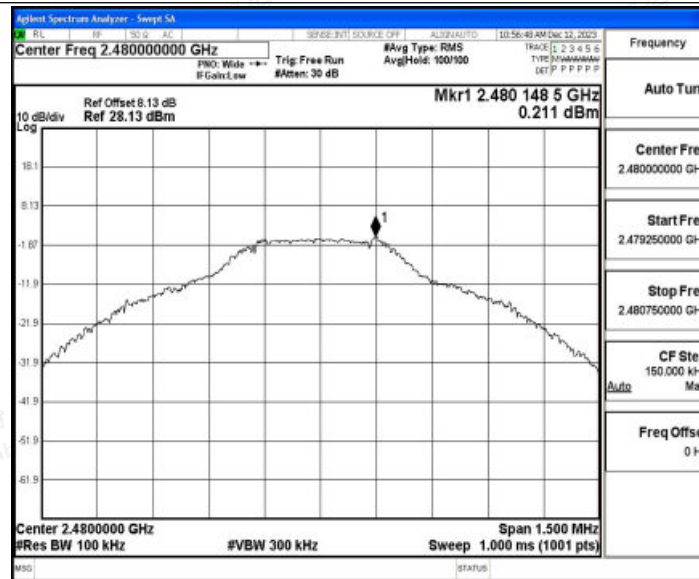


DH5_Ant1_2441_1000~26500

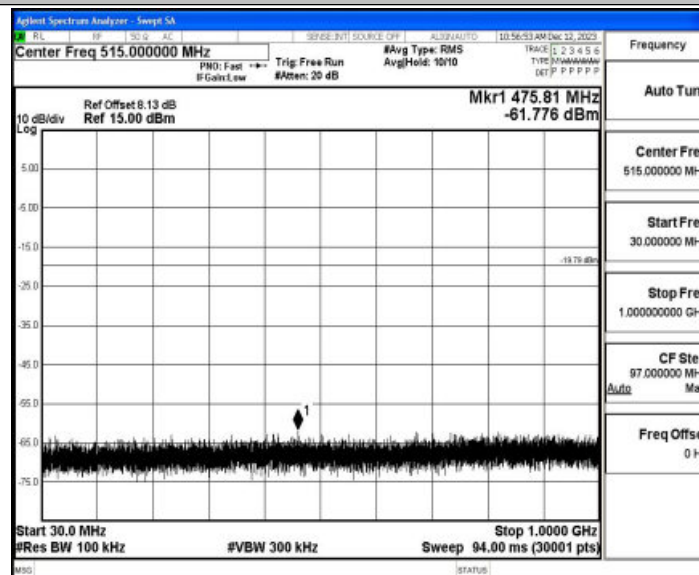


DH5_Ant1_2480_0~Reference



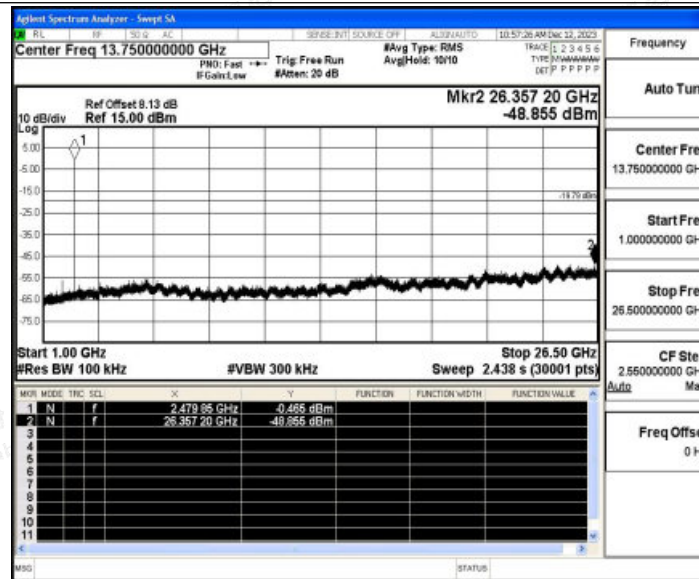


DH5_Ant1_2480_30~1000

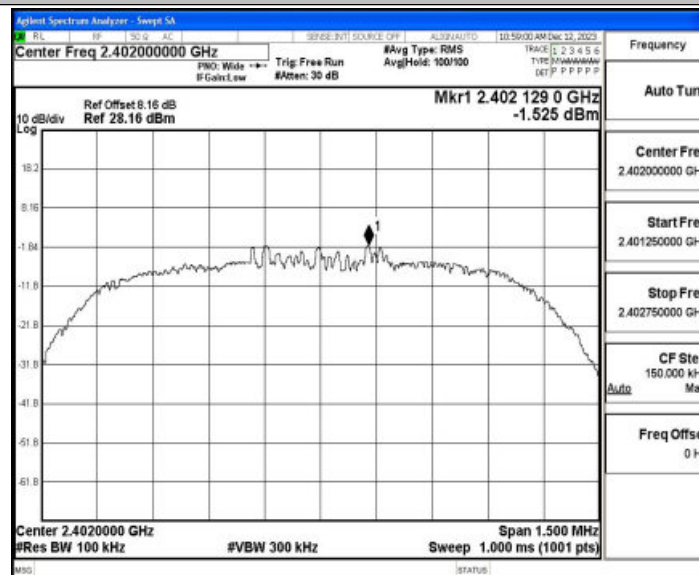


DH5_Ant1_2480_1000~26500



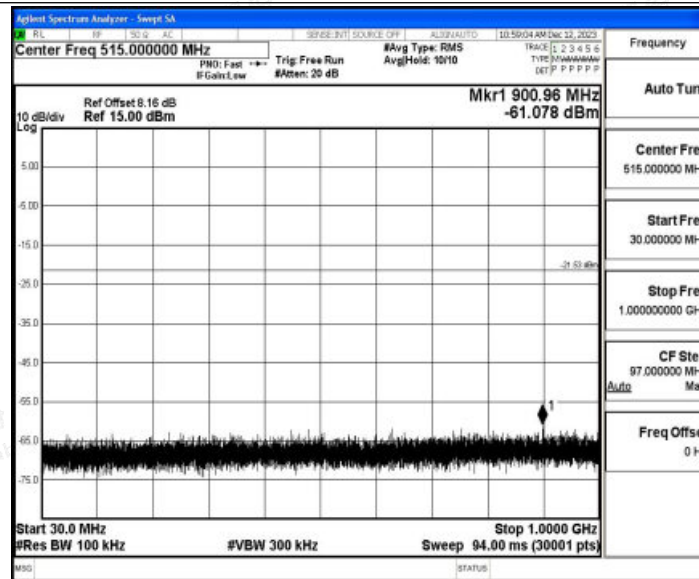


2DH5_Ant1_2402_0~Reference

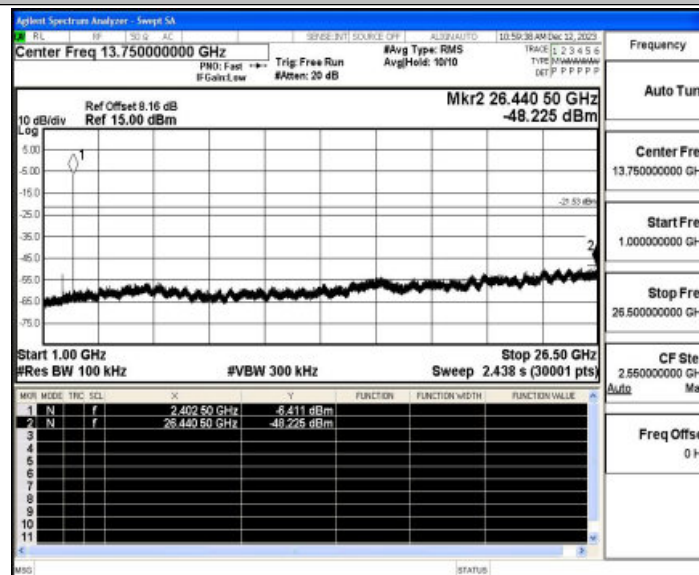


2DH5_Ant1_2402_30~1000



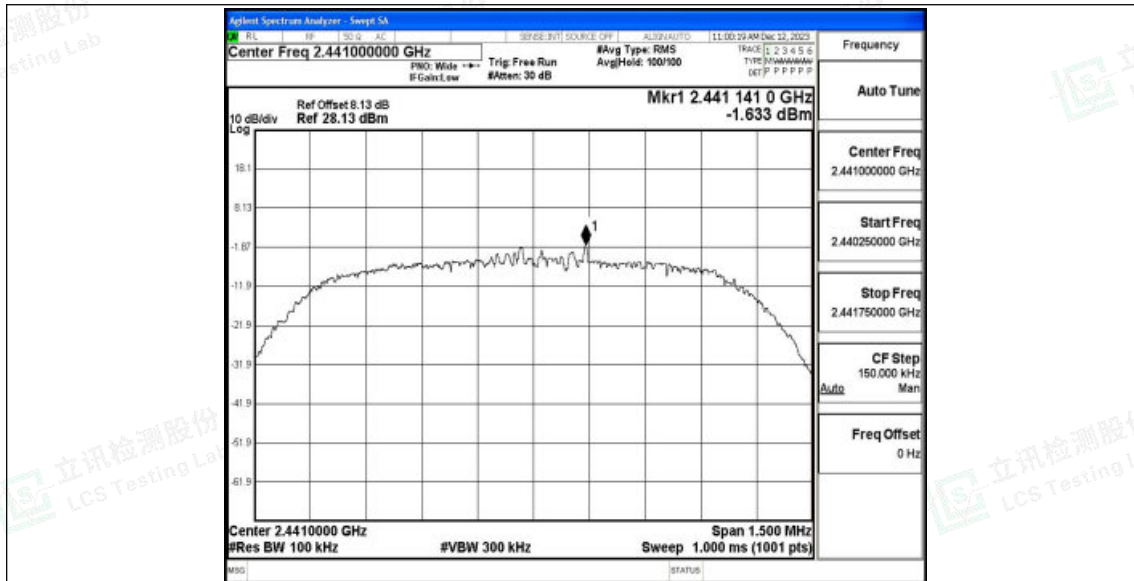


2DH5_Ant1_2402_1000~26500

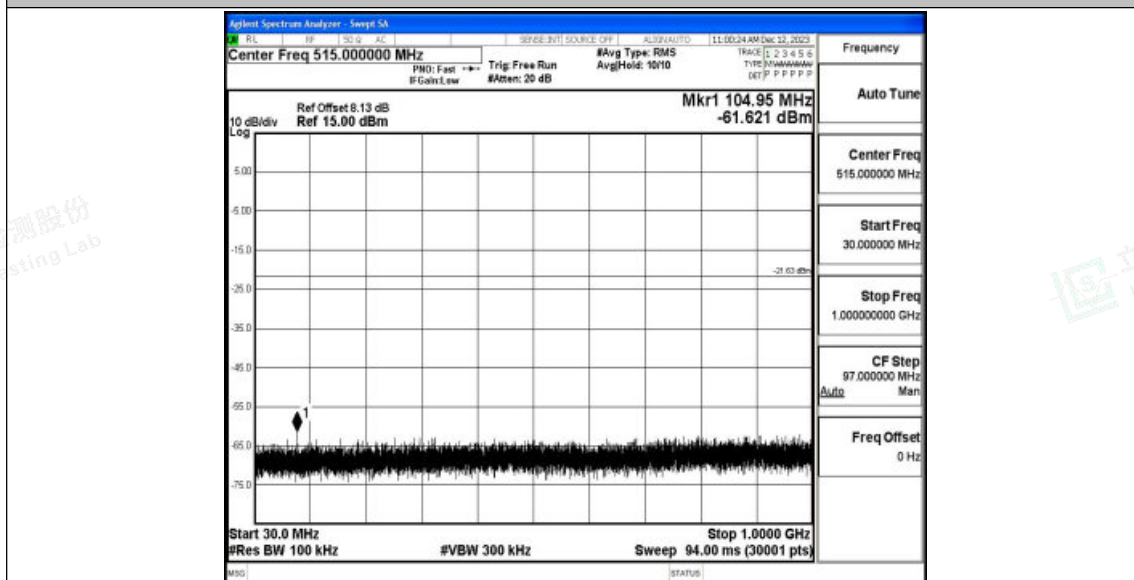


2DH5_Ant1_2441_0~Reference



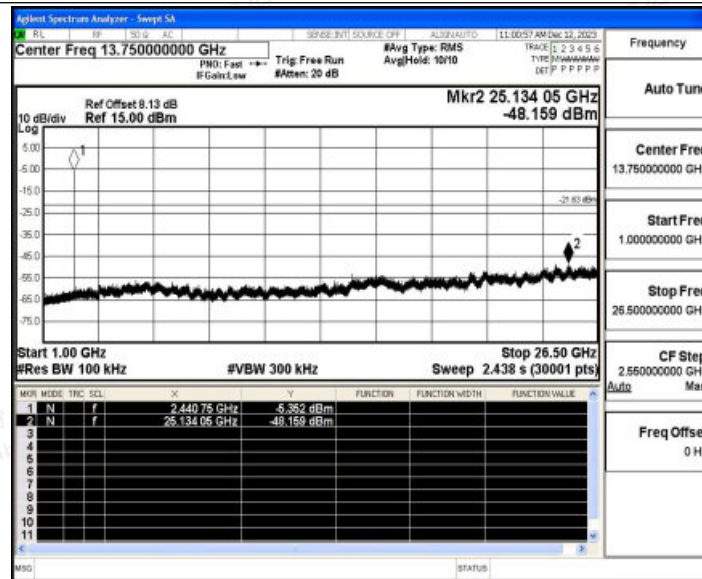


2DH5_Ant1_2441_30~1000

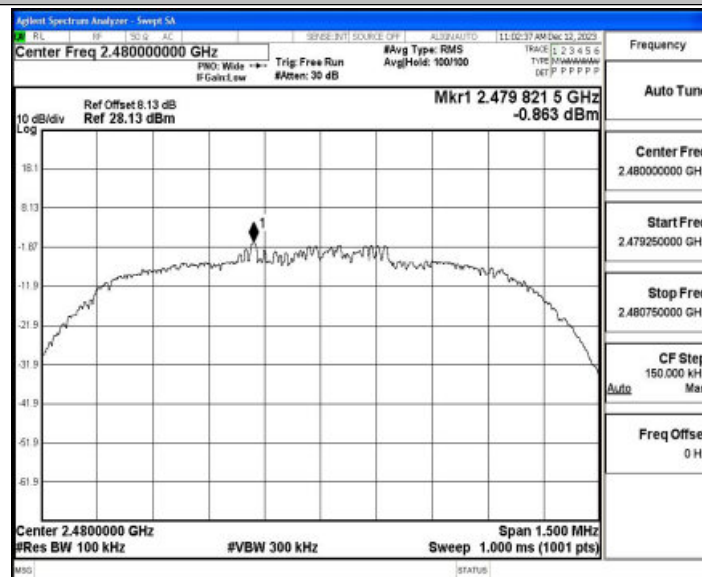


2DH5_Ant1_2441_1000~26500



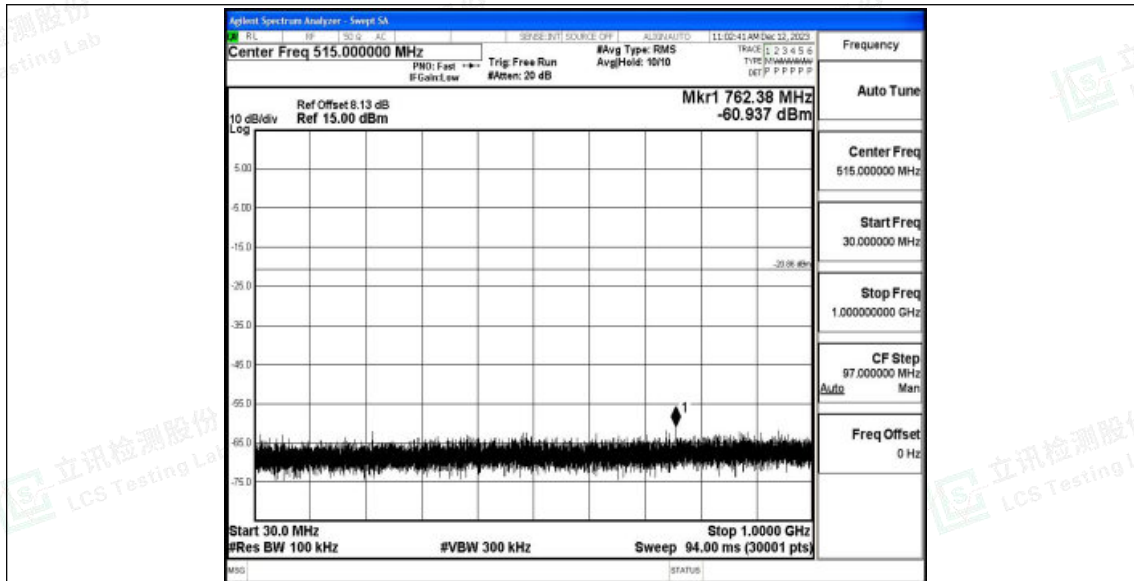


2DH5_Ant1_2480_0~Reference

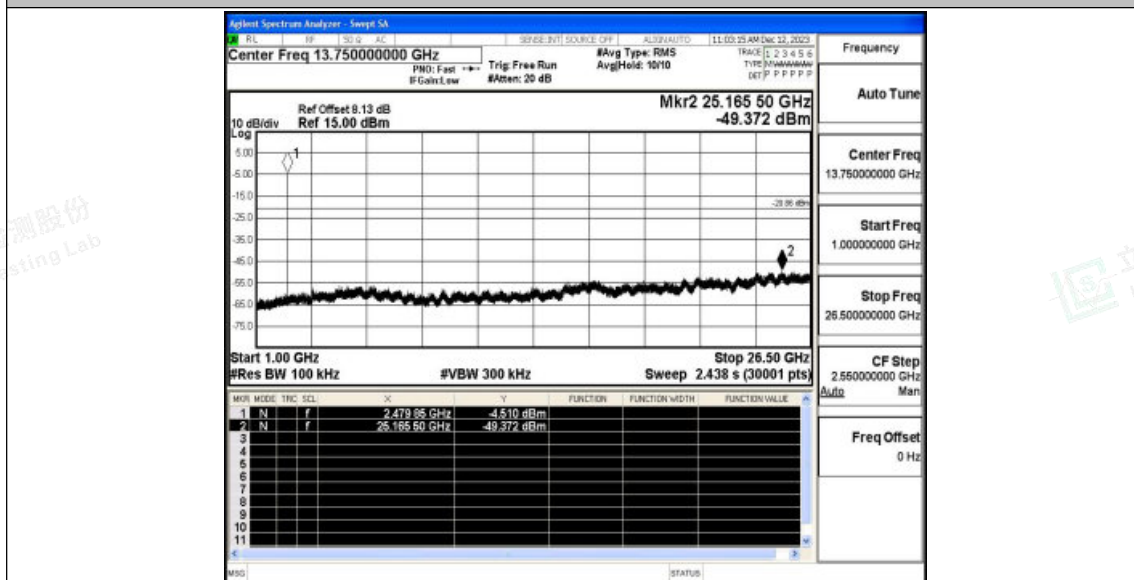


2DH5_Ant1_2480_30~1000



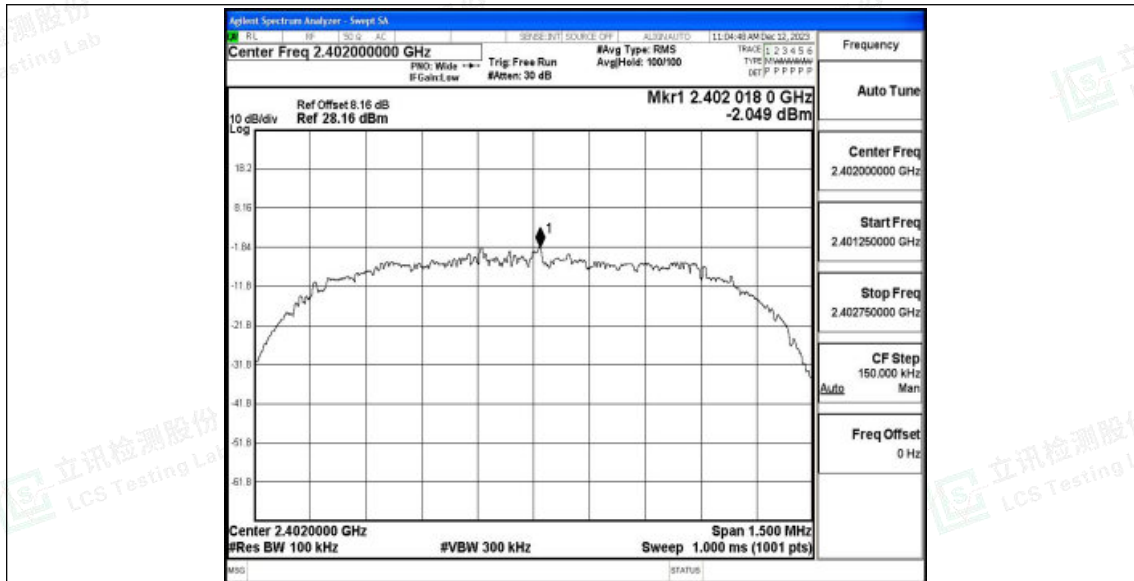


2DH5_Ant1_2480_1000~26500

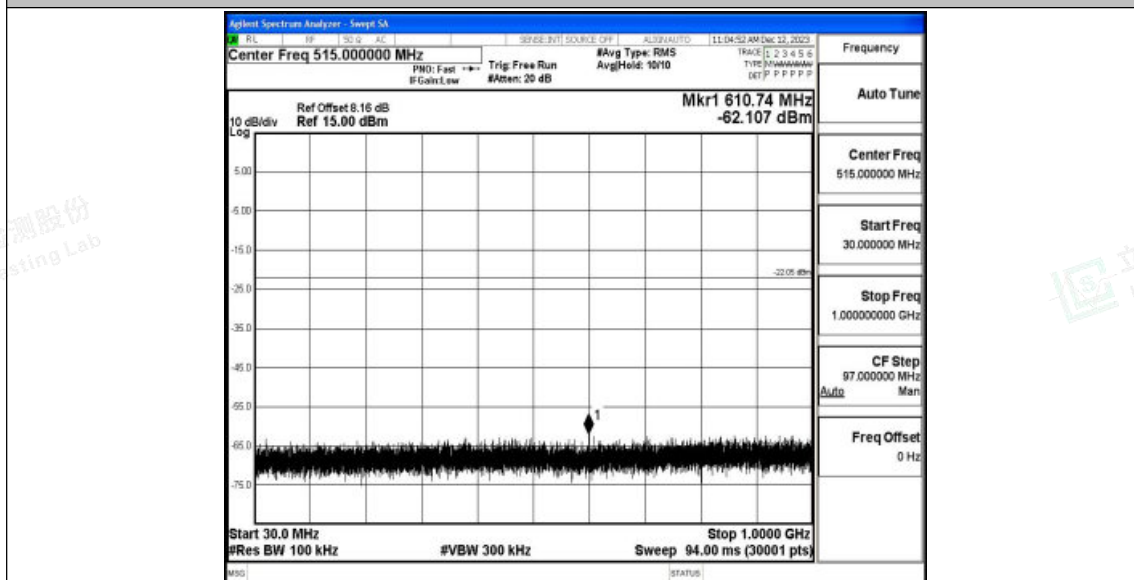


3DH5_Ant1_2402_0~Reference



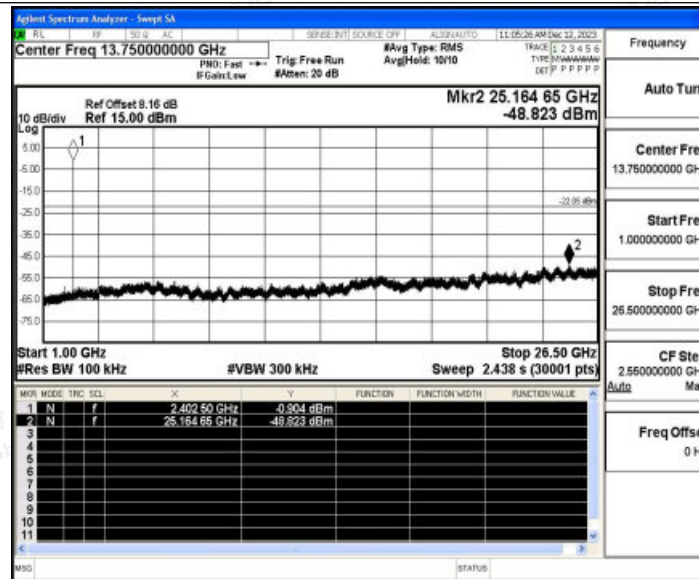


3DH5_Ant1_2402_30~1000

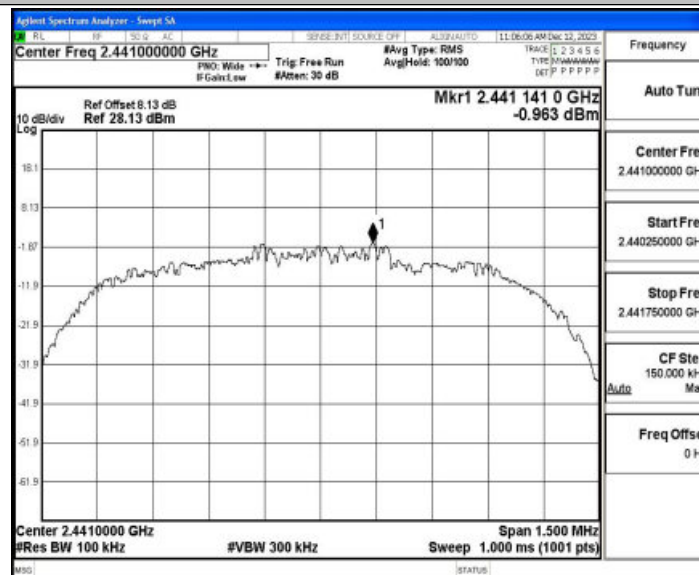


3DH5_Ant1_2402_1000~26500



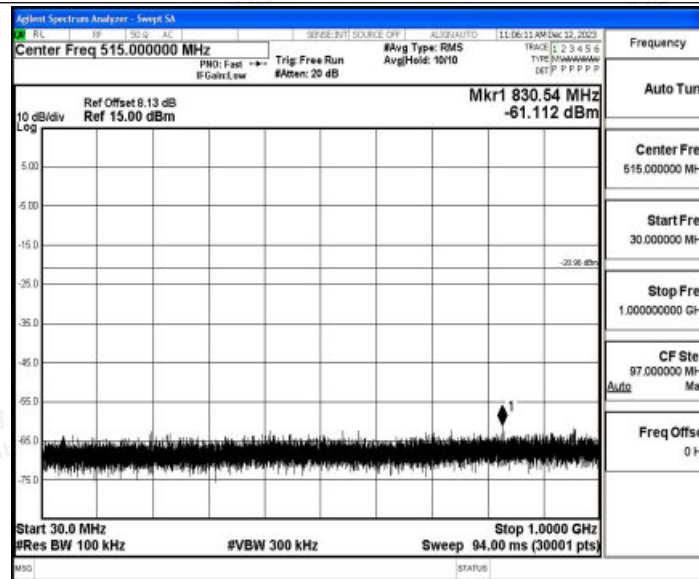


3DH5_Ant1_2441_0~Reference

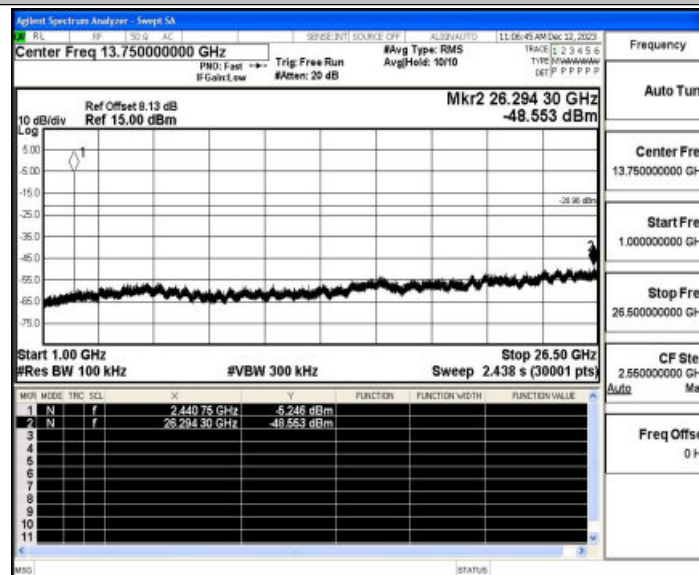


3DH5_Ant1_2441_30~1000



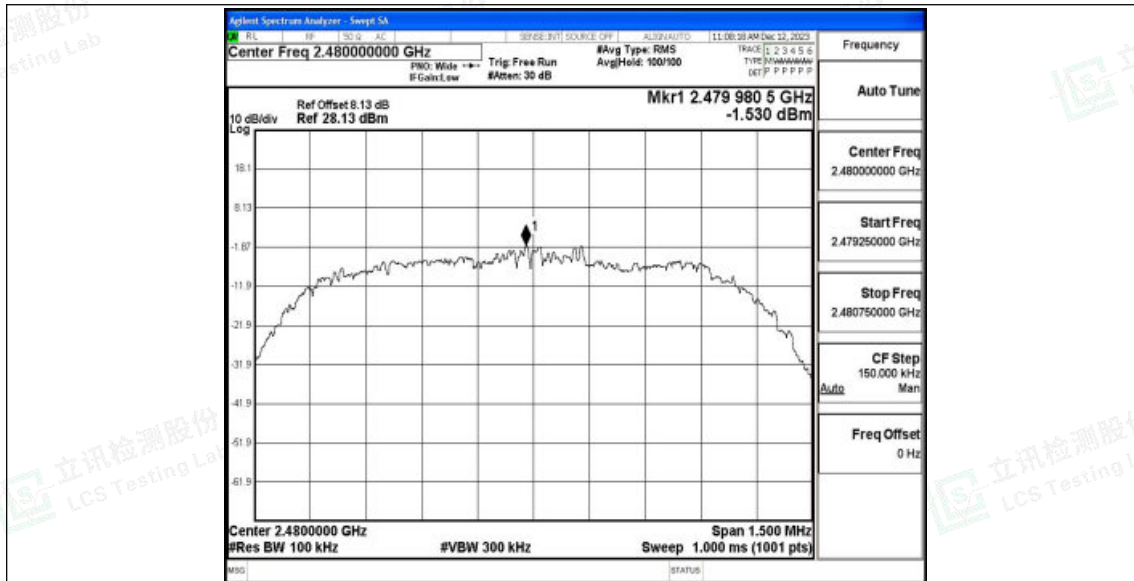


3DH5_Ant1_2441_1000~26500

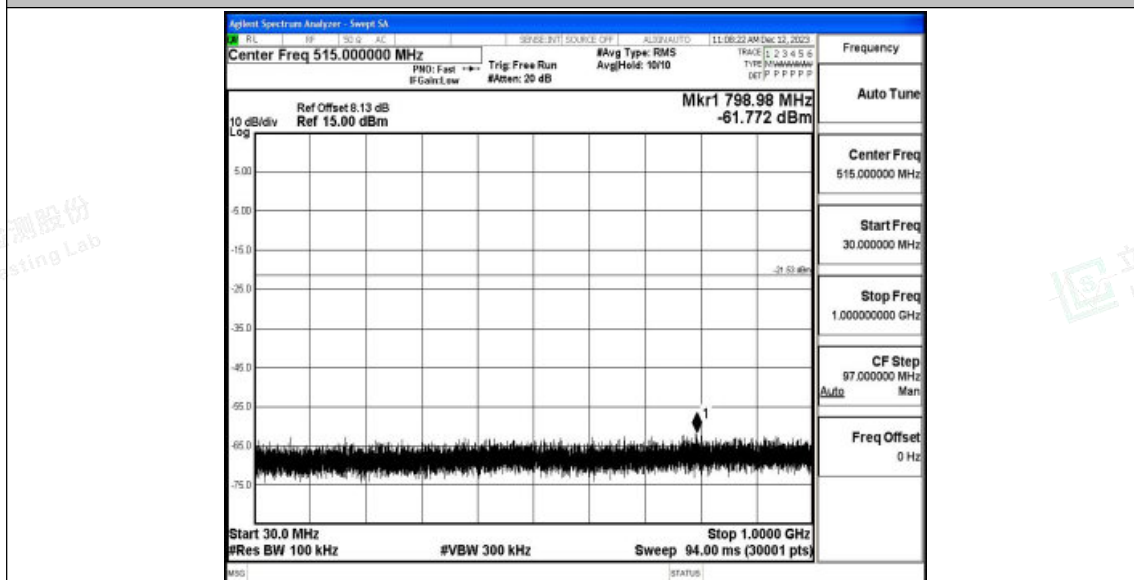


3DH5_Ant1_2480_0~Reference



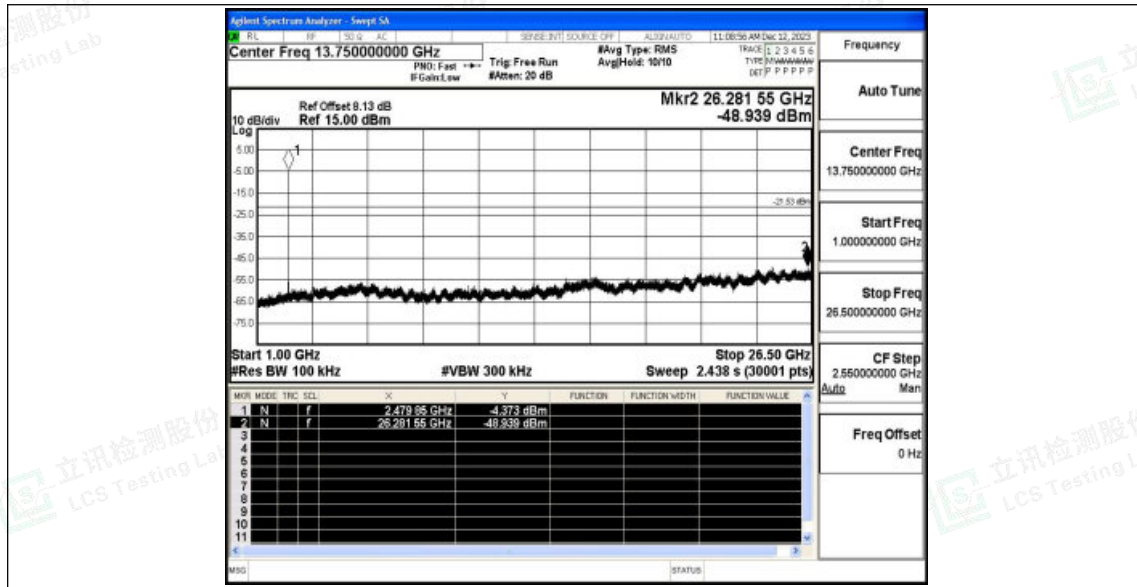


3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500







A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.06	≤-41.20	46.14	≤54	PASS
				AV	2387.465	-48.64	≤-41.20	46.56	≤54	PASS
				AV	2390.000	-48.78	≤-41.20	46.42	≤54	PASS
				Peak	2310.000	-44.45	≤-21.20	50.75	≤74	PASS
				Peak	2325.725	-39	≤-21.20	56.20	≤74	PASS
				Peak	2390.000	-42.27	≤-21.20	52.93	≤74	PASS
		High	2480	AV	2483.500	-48.5	≤-41.20	46.70	≤54	PASS
				AV	2483.520	-48.5	≤-41.20	46.70	≤54	PASS
				AV	2500.000	-48.63	≤-41.20	46.57	≤54	PASS
				Peak	2483.500	-42.54	≤-21.20	52.66	≤74	PASS
				Peak	2491.520	-39.06	≤-21.20	56.14	≤74	PASS
				Peak	2500.000	-43.69	≤-21.20	51.51	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-39.97	≤-21.20	55.23	≤74	PASS
				Peak	2331.710	-38.53	≤-21.20	56.67	≤74	PASS
				Peak	2390.000	-40.96	≤-21.20	54.24	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-40.58	≤-21.20	54.62	≤74	PASS
				Peak	2495.040	-38.59	≤-21.20	56.61	≤74	PASS
				Peak	2500.000	-40.88	≤-21.20	54.32	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.19	≤-41.20	46.01	≤54	PASS
				AV	2382.530	-48.68	≤-41.20	46.52	≤54	PASS
				AV	2390.000	-48.82	≤-41.20	46.38	≤54	PASS
				Peak	2310.000	-45.29	≤-21.20	49.91	≤74	PASS
				Peak	2322.260	-39.33	≤-21.20	55.87	≤74	PASS
				Peak	2390.000	-43.04	≤-21.20	52.16	≤74	PASS
		High	2480	AV	2483.500	-48.45	≤-41.20	46.75	≤54	PASS
				AV	2483.520	-48.45	≤-41.20	46.75	≤54	PASS
				AV	2500.000	-48.78	≤-41.20	46.42	≤54	PASS
				Peak	2483.500	-44.06	≤-21.20	51.14	≤74	PASS
				Peak	2487.360	-40.13	≤-21.20	55.07	≤74	PASS
				Peak	2500.000	-42.84	≤-21.20	52.36	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.26	≤-21.20	54.94	≤74	PASS
				Peak	2320.055	-38.25	≤-21.20	56.95	≤74	PASS
				Peak	2390.000	-41.16	≤-21.20	54.04	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-40.77	≤-21.20	54.43	≤74	PASS
				Peak	2486.000	-38.56	≤-21.20	56.64	≤74	PASS



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3DH5	Ant1	Low	2402	Peak	2500.000	-40.29	≤ -21.20	54.91	≤ 74	PASS
				AV	2310.000	-49.17	≤ -41.20	46.03	≤ 54	PASS
				AV	2386.205	-48.64	≤ -41.20	46.56	≤ 54	PASS
				AV	2390.000	-48.79	≤ -41.20	46.41	≤ 54	PASS
				Peak	2310.000	-45.73	≤ -21.20	49.47	≤ 74	PASS
				Peak	2348.930	-39.99	≤ -21.20	55.21	≤ 74	PASS
		High	2480	Peak	2390.000	-43.99	≤ -21.20	51.21	≤ 74	PASS
				AV	2483.500	-48.42	≤ -41.20	46.78	≤ 54	PASS
				AV	2483.520	-48.42	≤ -41.20	46.78	≤ 54	PASS
				AV	2500.000	-48.69	≤ -41.20	46.51	≤ 54	PASS
				Peak	2483.500	-42.06	≤ -21.20	53.14	≤ 74	PASS
				Peak	2499.200	-39.88	≤ -21.20	55.32	≤ 74	PASS
		Low	Hop_24 02	Peak	2500.000	-43.01	≤ -21.20	52.19	≤ 74	PASS
				Peak	2310.000	-40.88	≤ -21.20	54.32	≤ 74	PASS
				Peak	2366.780	-39.23	≤ -21.20	55.97	≤ 74	PASS
		High	Hop_24 80	Peak	2390.000	-41.21	≤ -21.20	53.99	≤ 74	PASS
				Peak	2483.500	-40	≤ -21.20	55.20	≤ 74	PASS
				Peak	2490.960	-38.21	≤ -21.20	56.99	≤ 74	PASS
				Peak	2500.000	-39.51	≤ -21.20	55.69	≤ 74	PASS

Note:

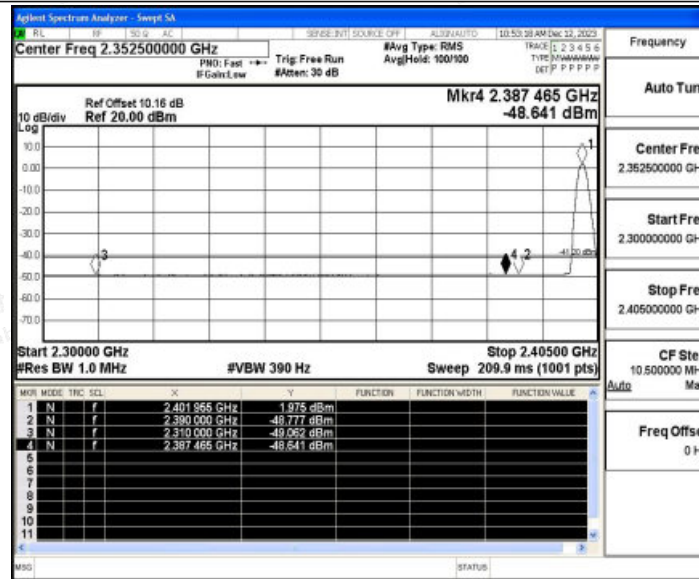
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



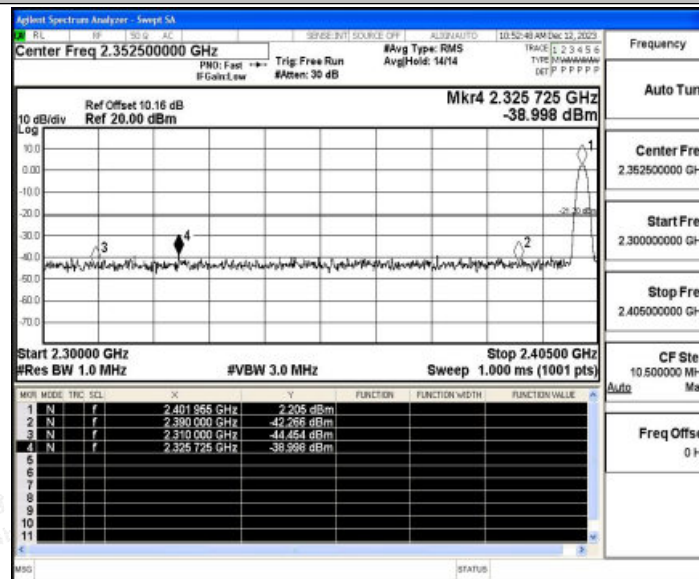


Test Graphs

DH5_Ant1_Low_2402_AV

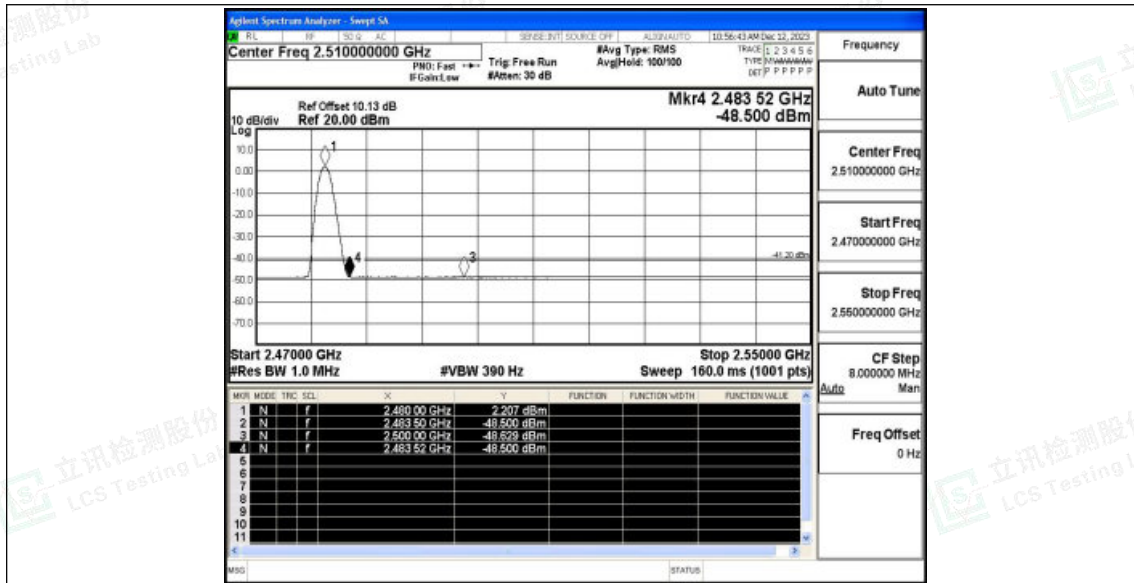


DH5_Ant1_Low_2402_Peak

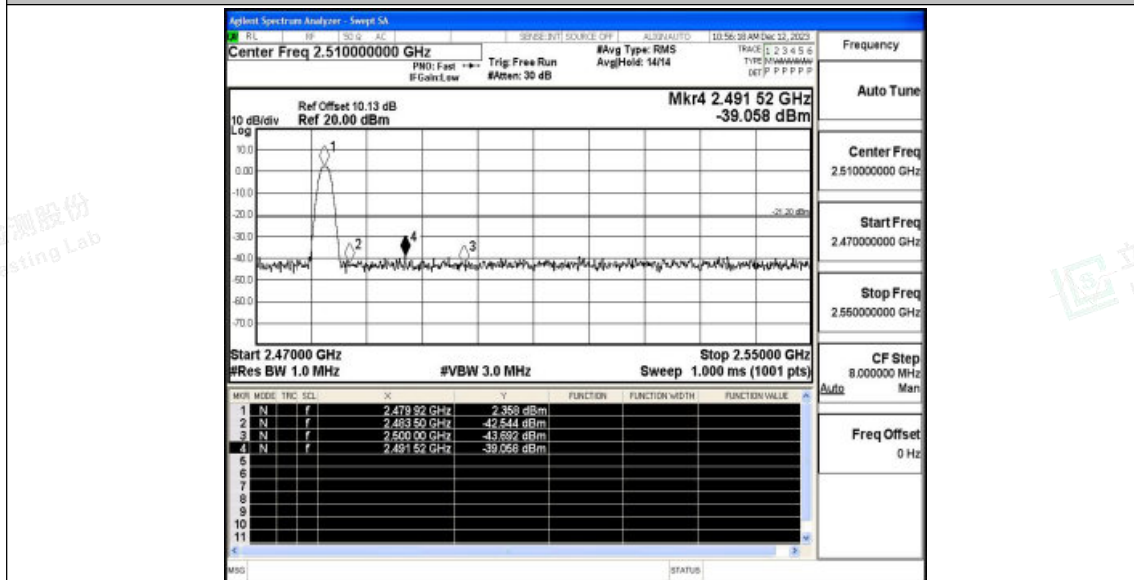


DH5_Ant1_High_2480_AV





DH5_Ant1_High_2480_Peak



DH5_Ant1_Low_Hop_2402_Peak

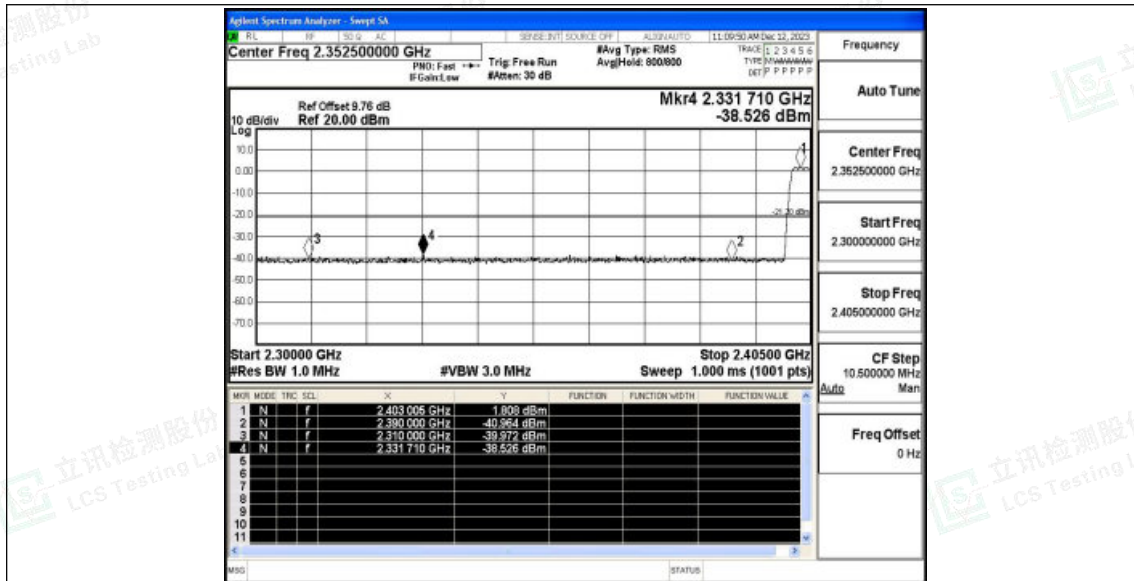


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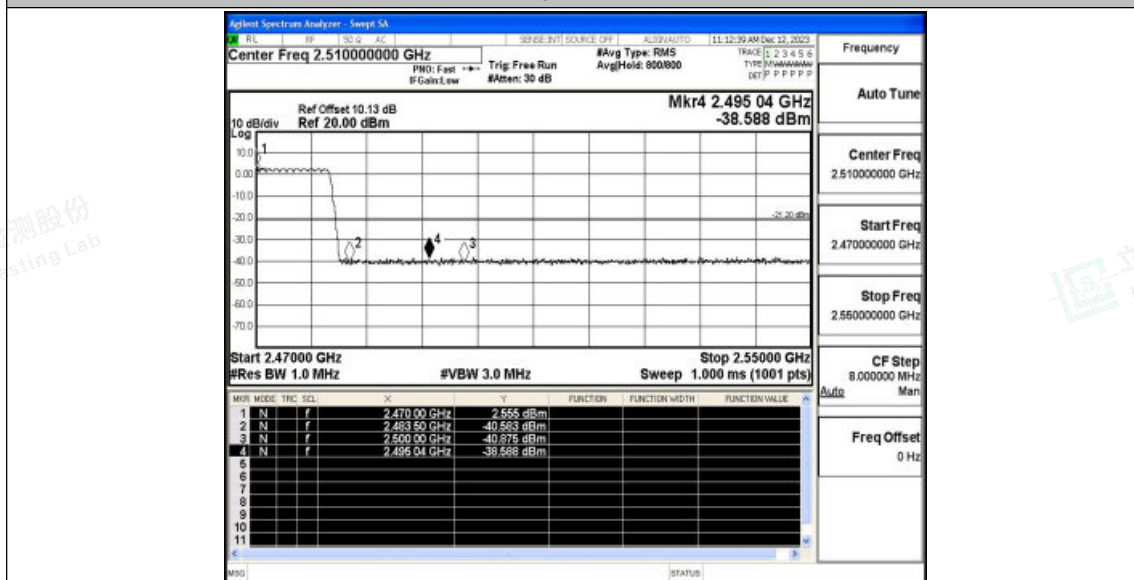
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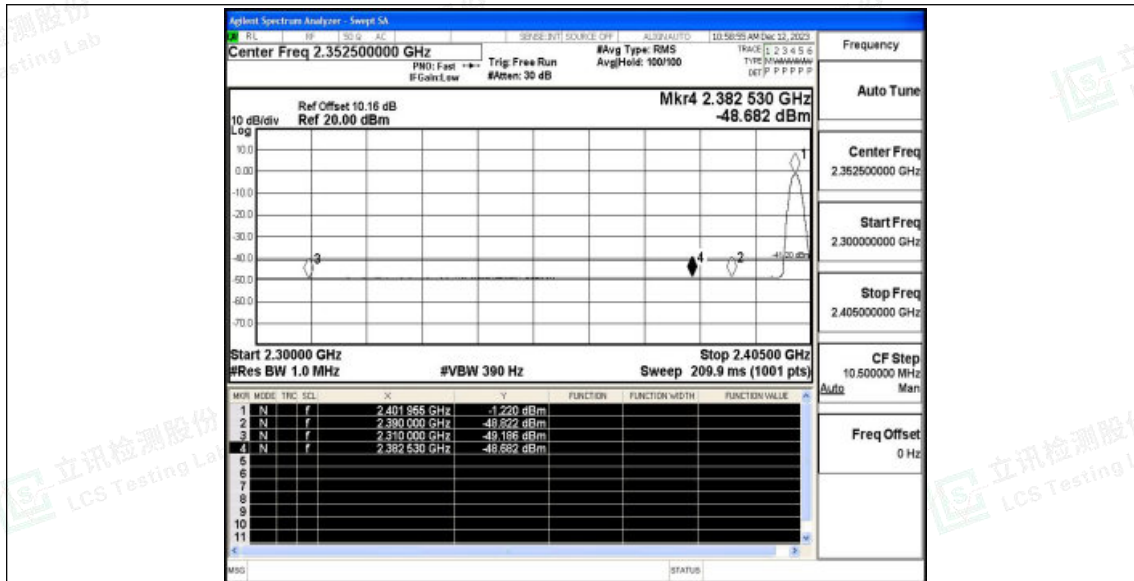


DH5_Ant1_High_Hop_2480_Peak

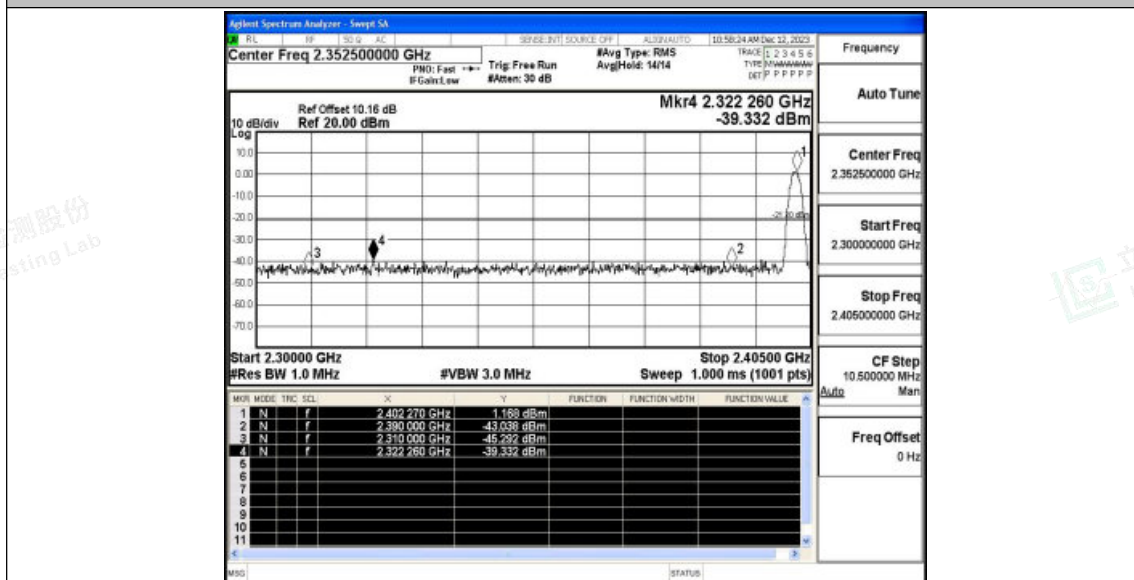


2DH5_Ant1_Low_2402_AV



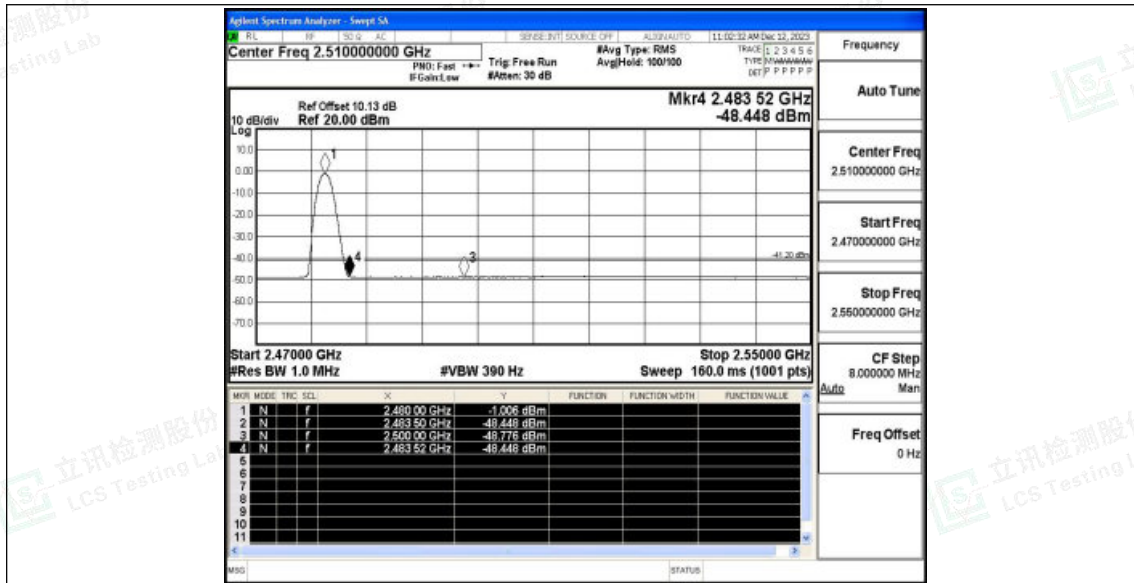


2DH5_Ant1_Low_2402_Peak

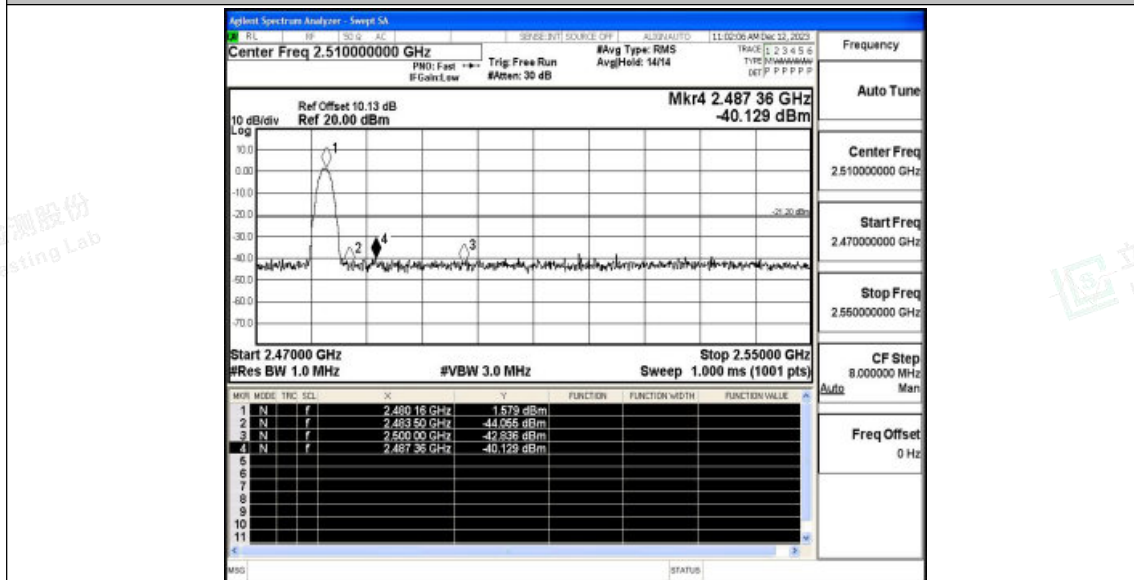


2DH5_Ant1_High_2480_AV





2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak

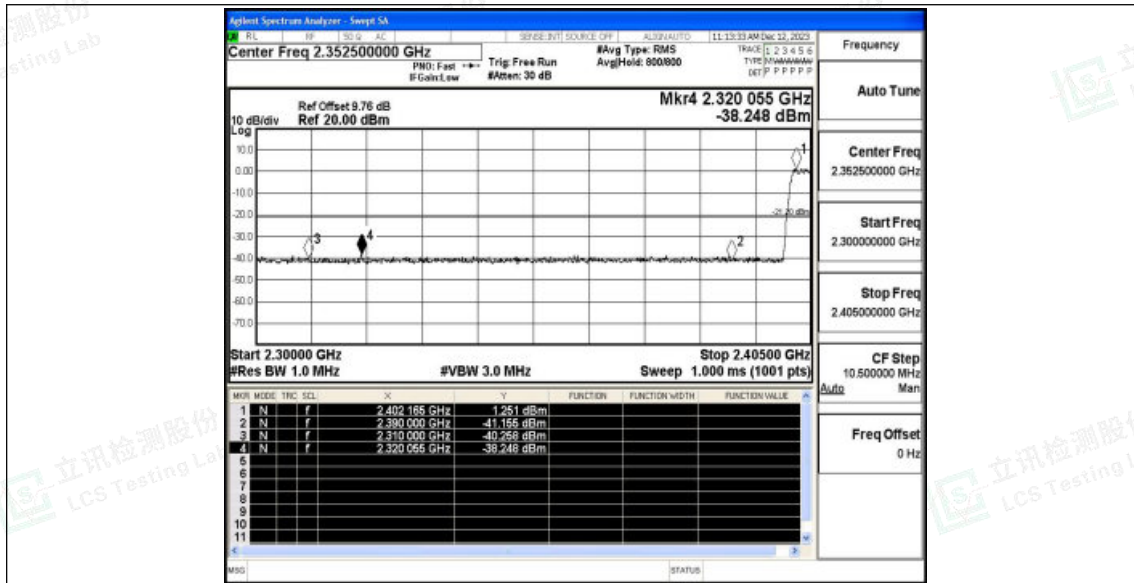


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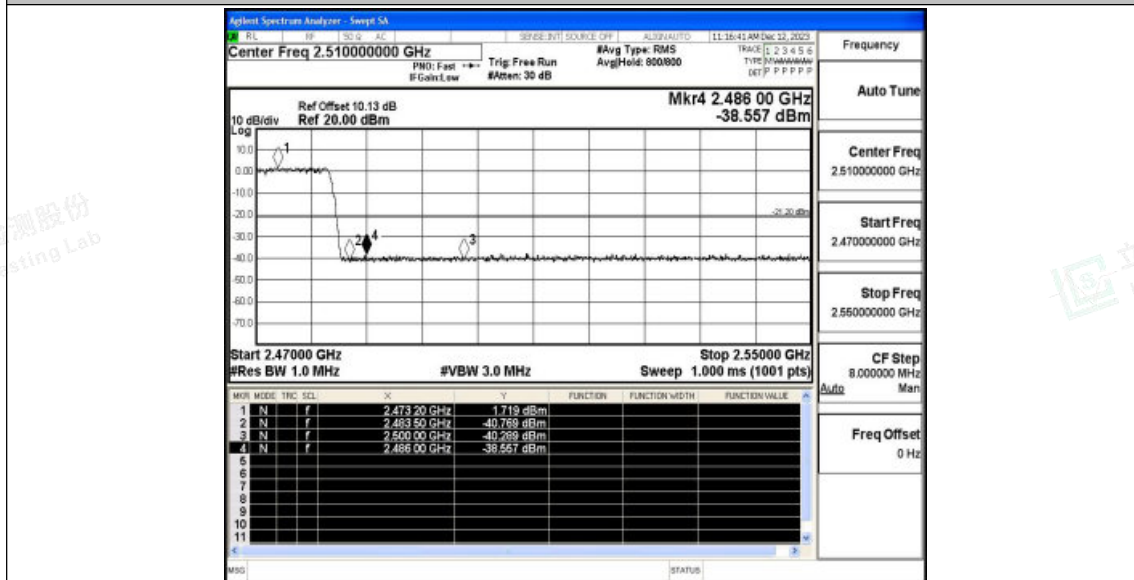
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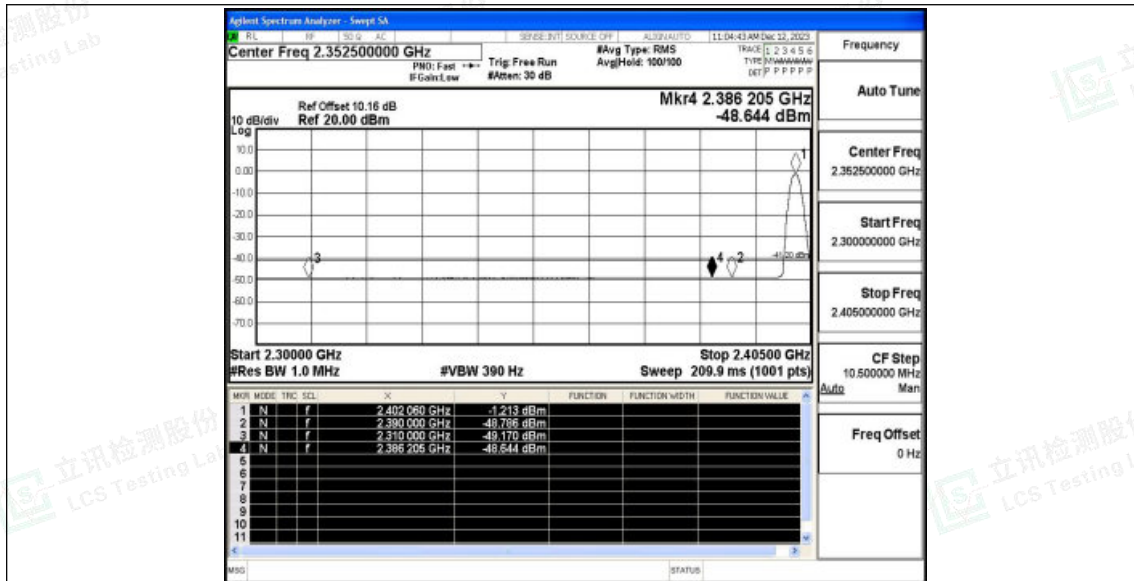


2DH5_Ant1_High_Hop_2480_Peak

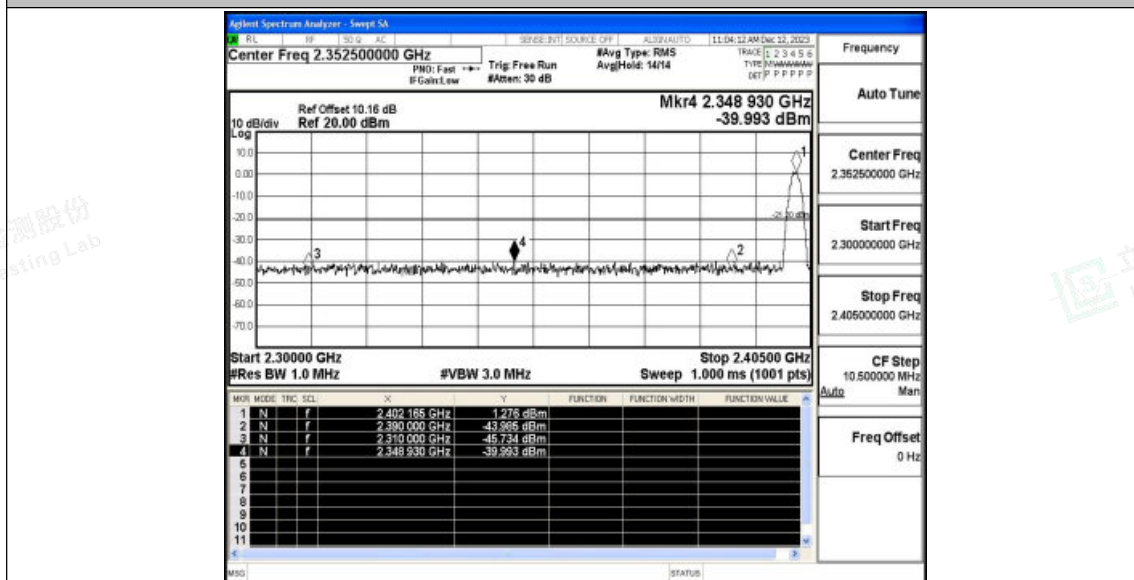


3DH5_Ant1_Low_2402_AV



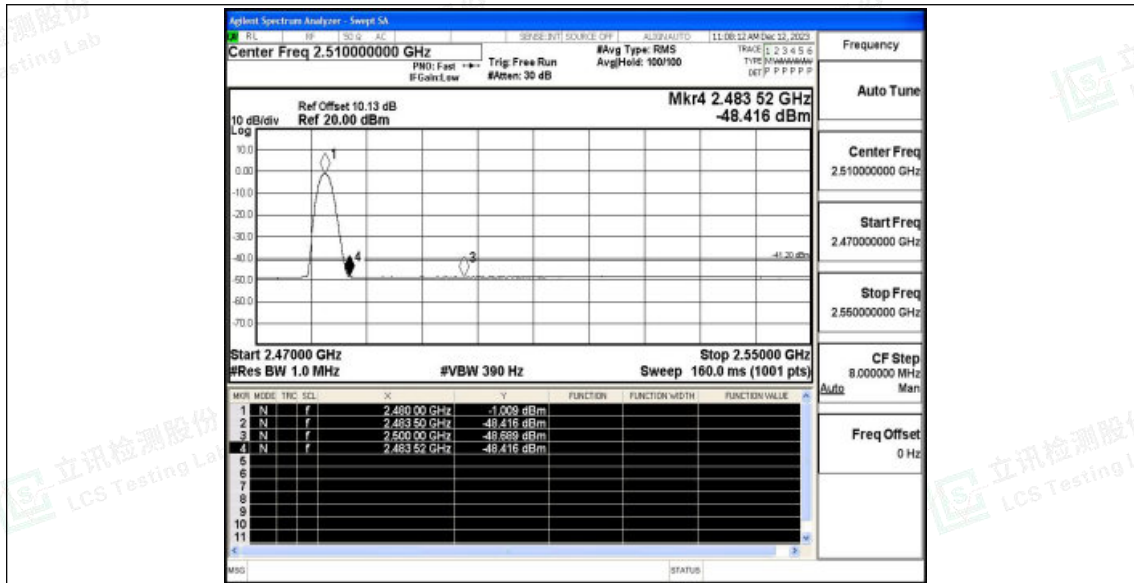


3DH5_Ant1_Low_2402_Peak

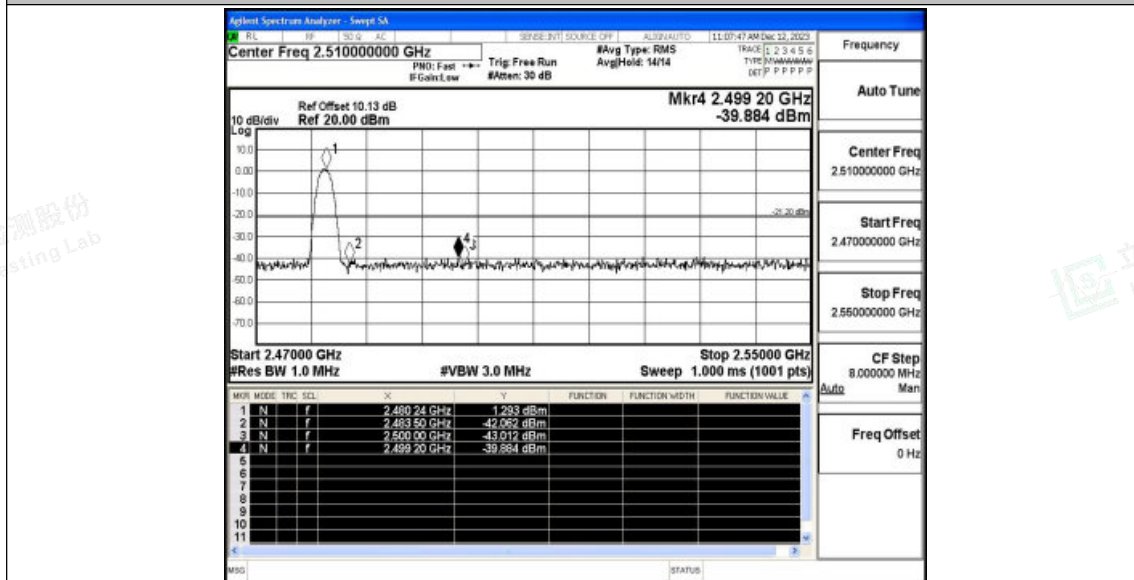


3DH5_Ant1_High_2480_AV





3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak



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