



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Smartphone

Test Model: CG65

Environmental Conditions

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





A.1 20dB Emission Bandwidth

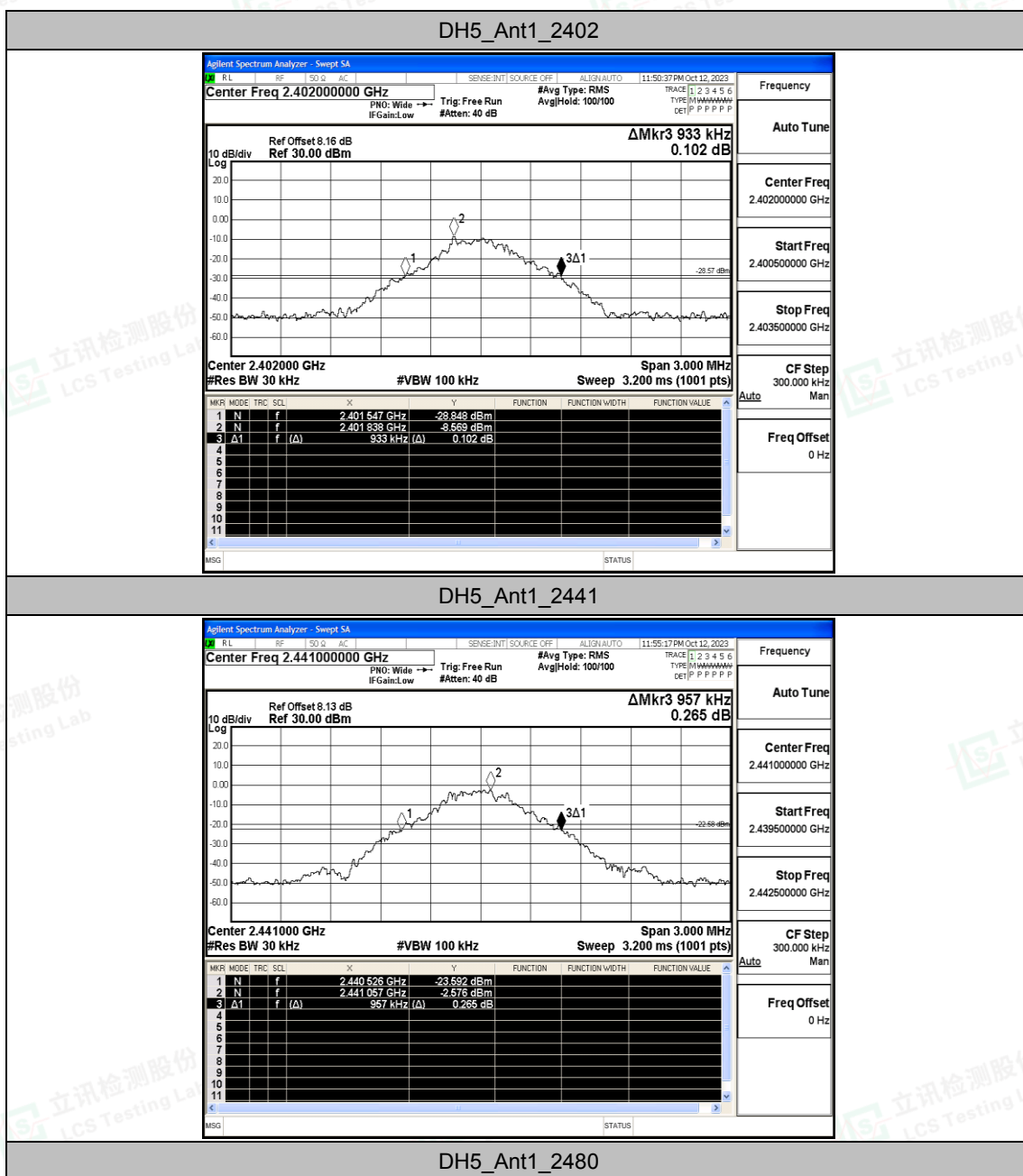
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	0.933	2401.547	2402.480	---
		2441	0.957	2440.526	2441.483	---
		2480	0.954	2479.529	2480.483	---
2DH5	Ant1	2402	1.326	2401.334	2402.660	---
		2441	1.317	2440.337	2441.654	---
		2480	1.326	2479.331	2480.657	---

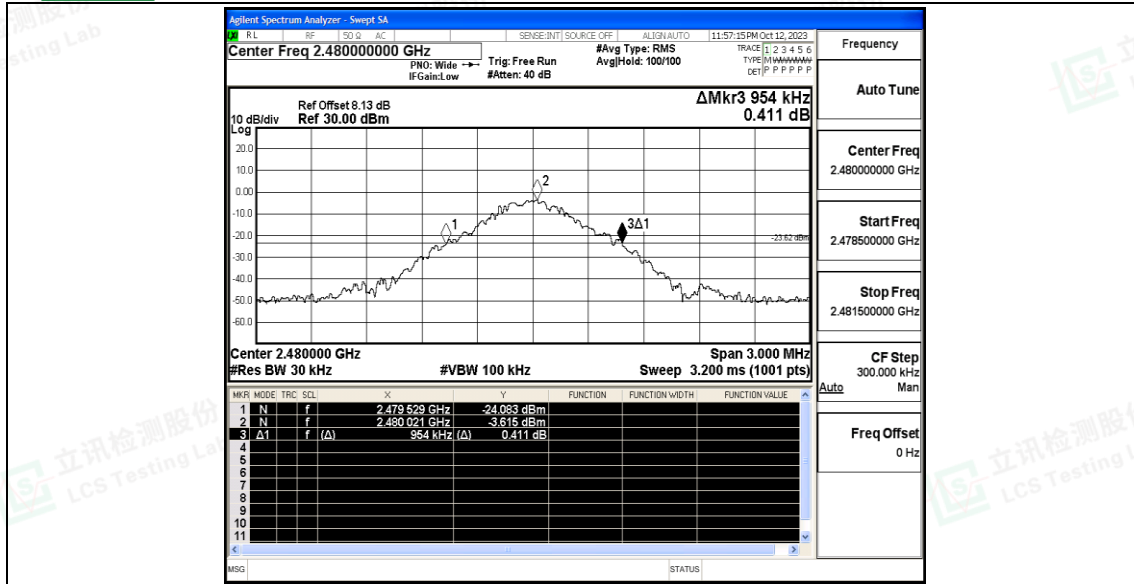




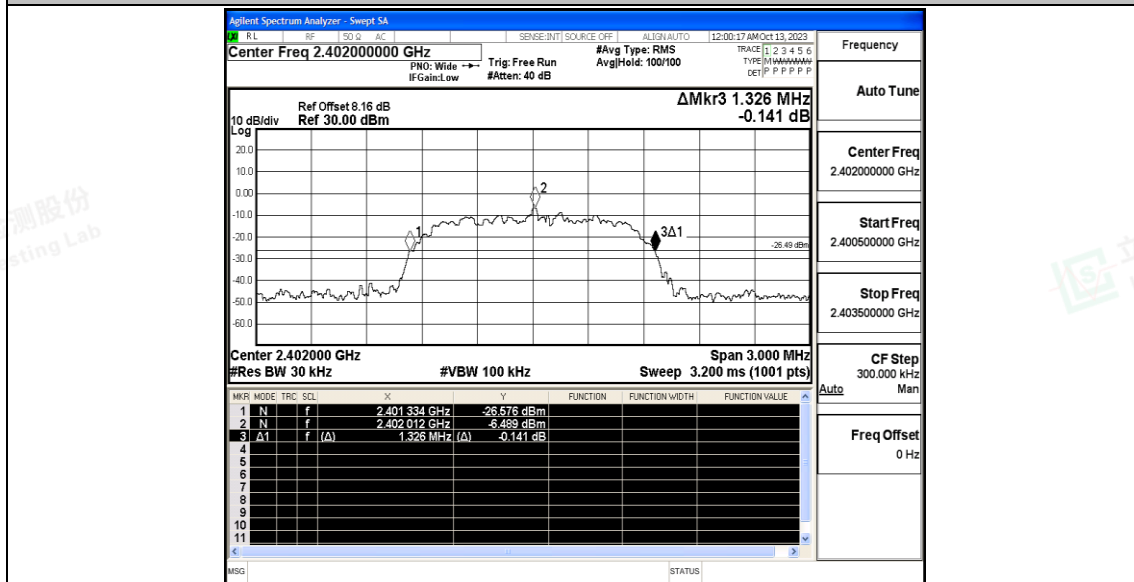
Test Graphs



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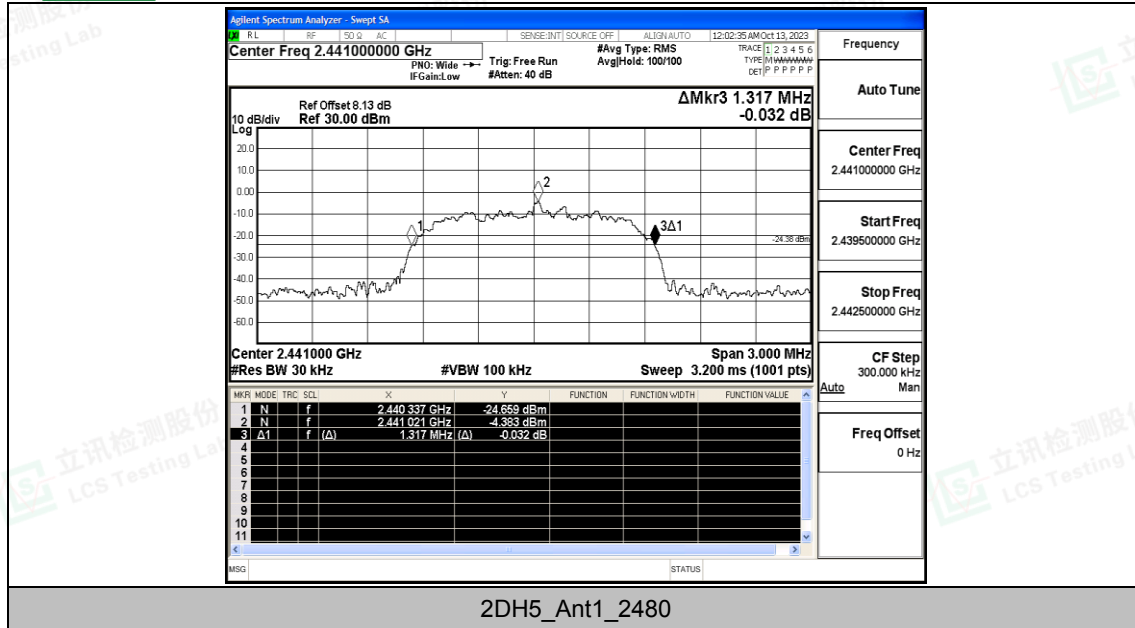


2DH5_Ant1_2402



2DH5_Ant1_2441







A.2 Maximum conducted output power

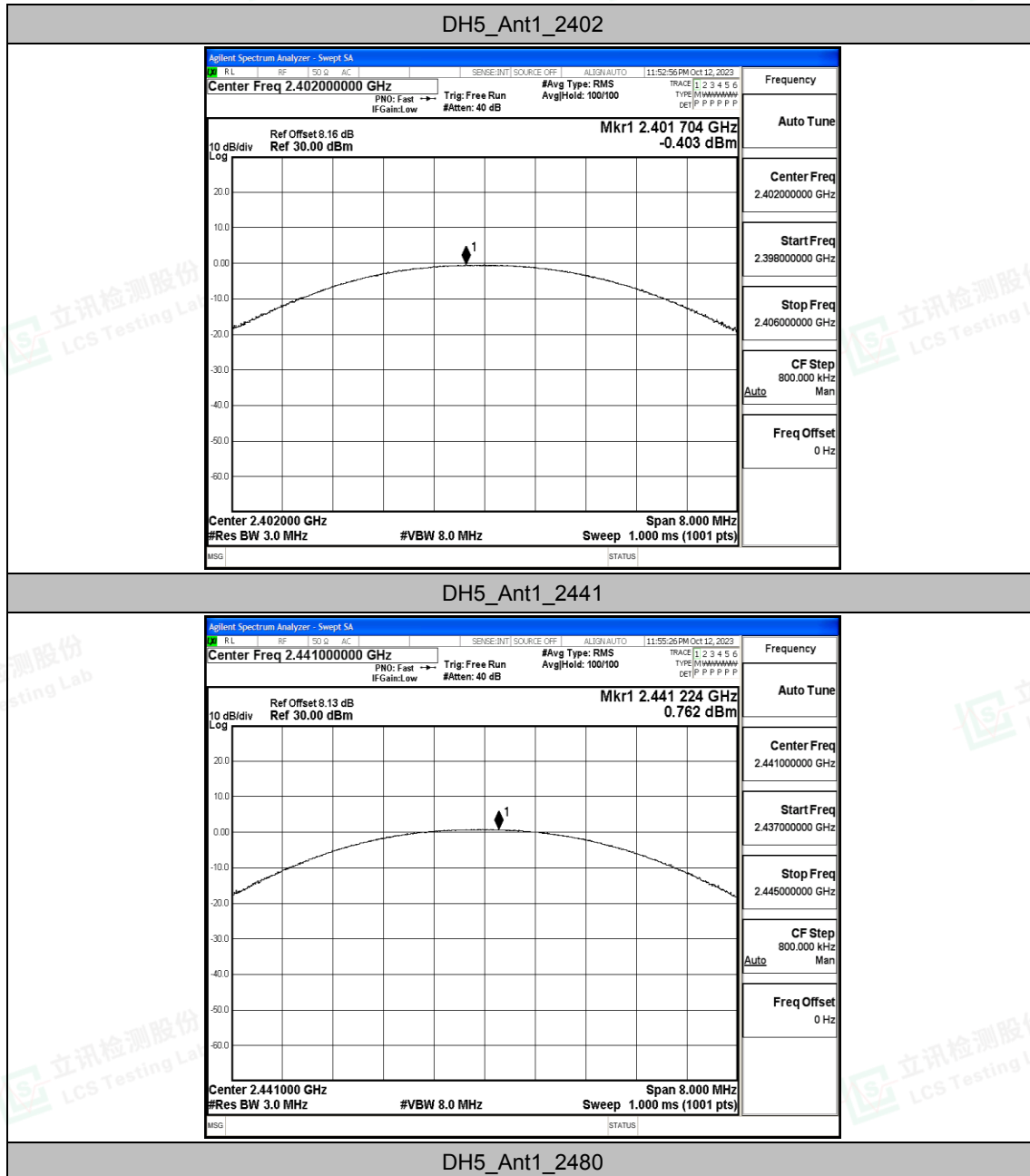
Test Result

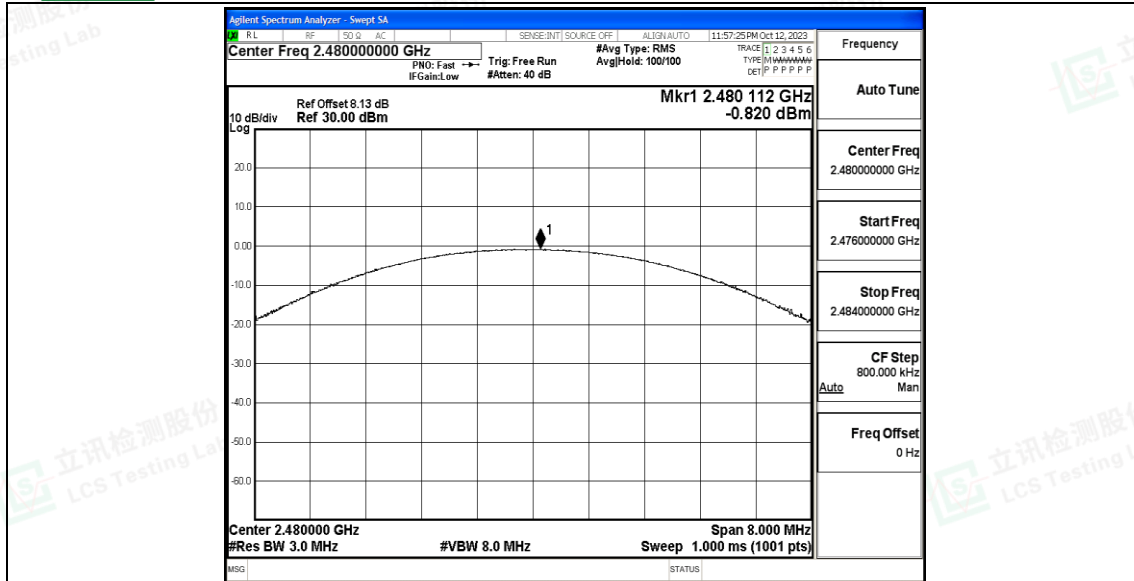
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.4	≤21	PASS
		2441	0.76	≤21	PASS
		2480	-0.82	≤21	PASS
2DH5	Ant1	2402	-0.63	≤21	PASS
		2441	0.69	≤21	PASS
		2480	-0.44	≤21	PASS



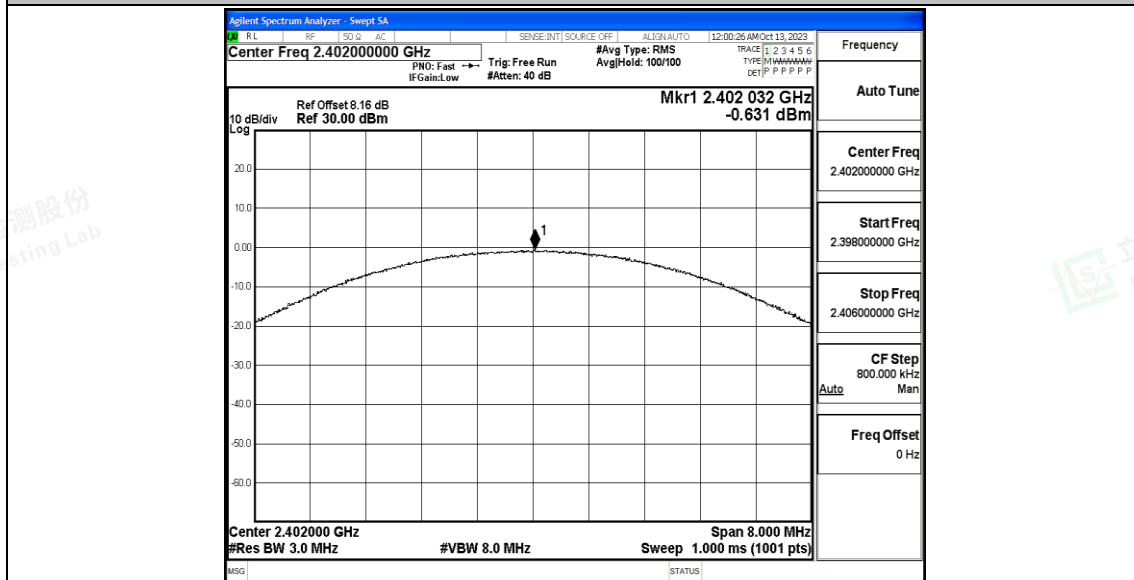


Test Graphs



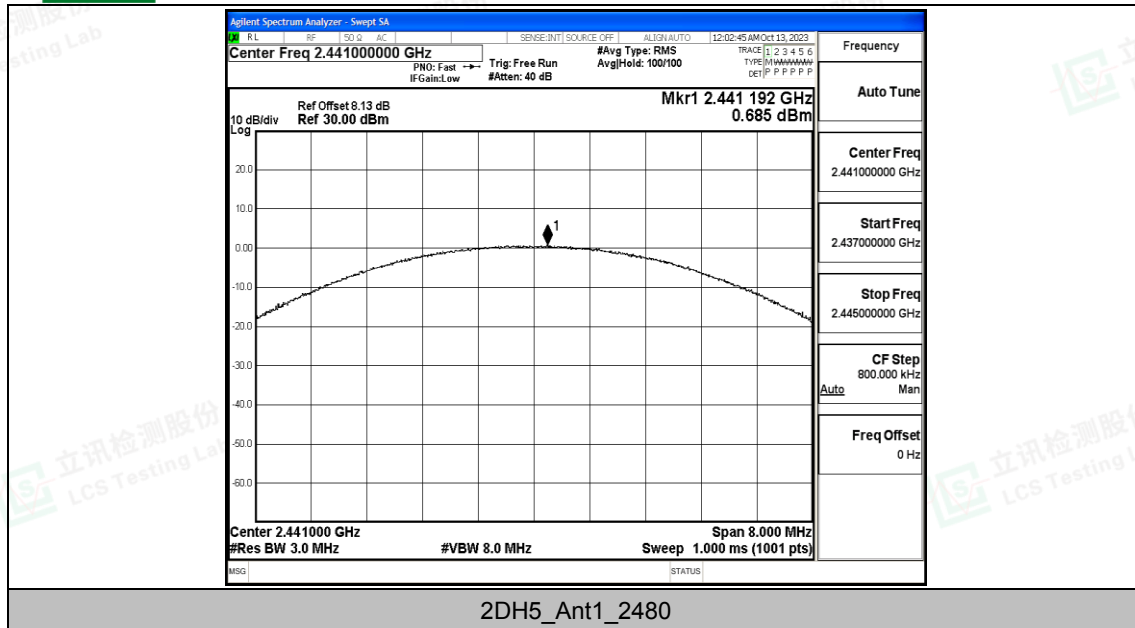


2DH5_Ant1_2402



2DH5_Ant1_2441







A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.068	≥0.638	PASS
2DH5	Ant1	Hop	1.286	≥0.884	PASS





Test Graphs





A.4 Time of occupancy

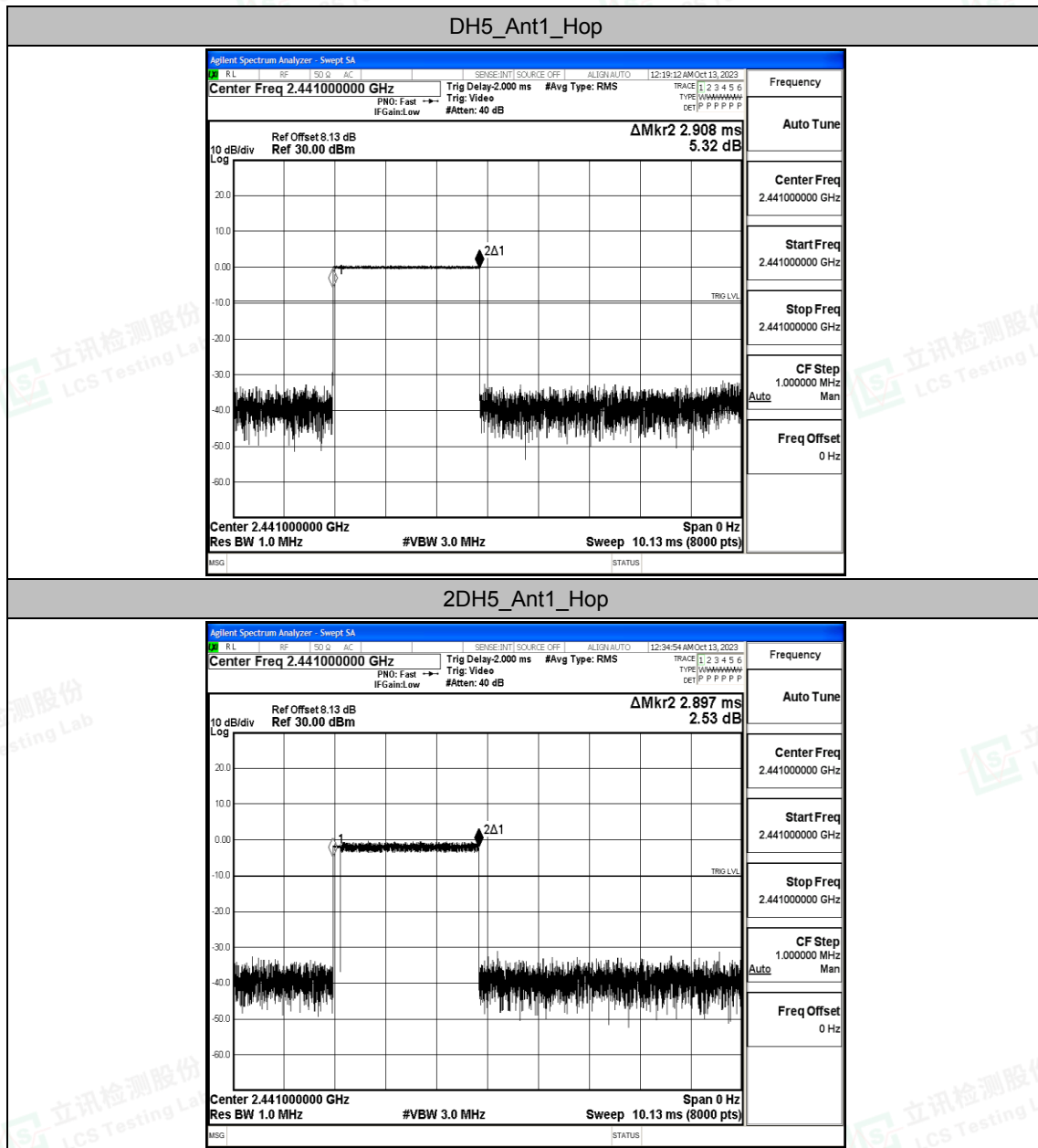
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.908	106.67	0.31	≤0.4	PASS
2DH5	Ant1	Hop	2.897	106.67	0.309	≤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





Test Graphs





A.6 Band edge measurements

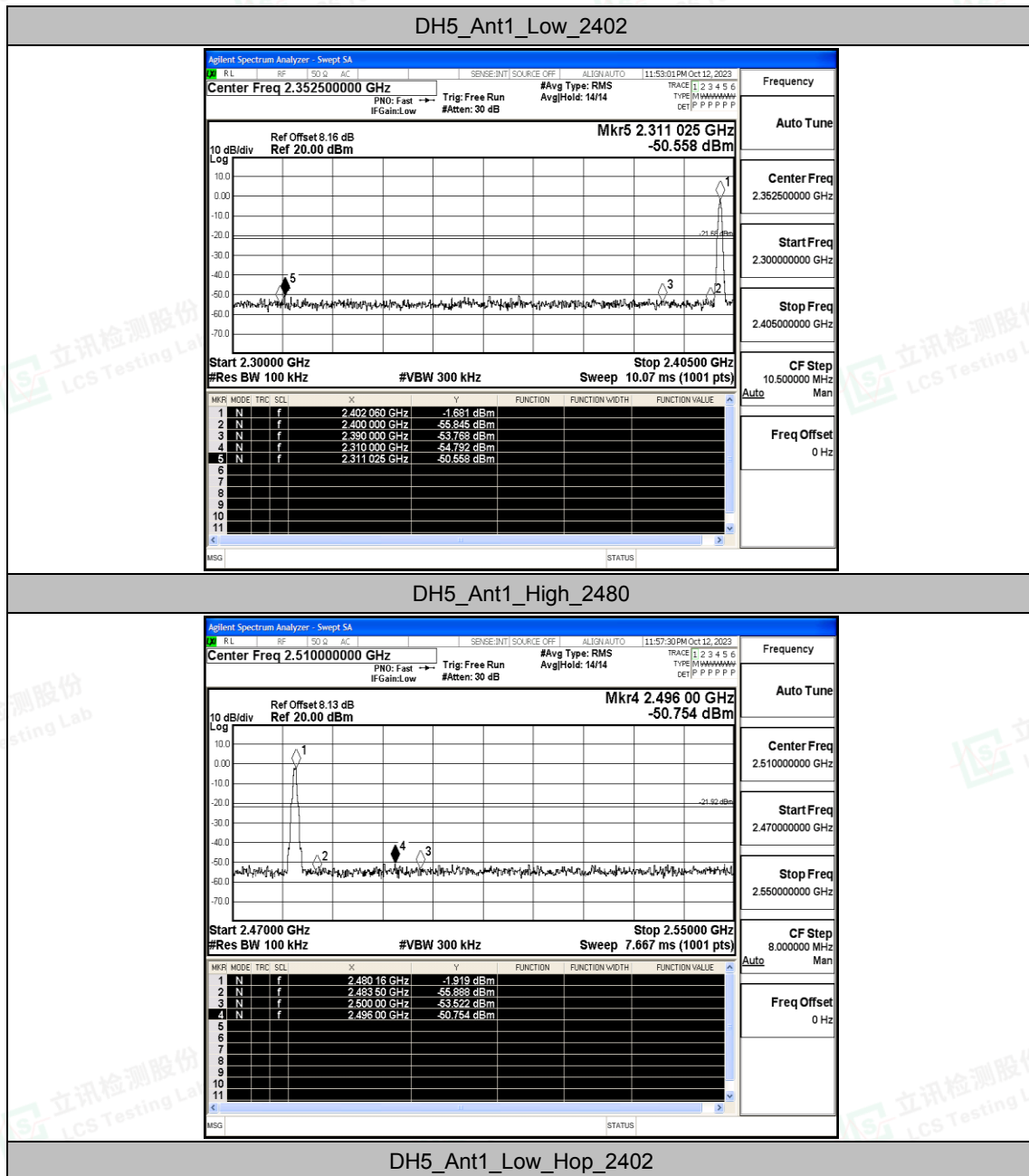
Test Result

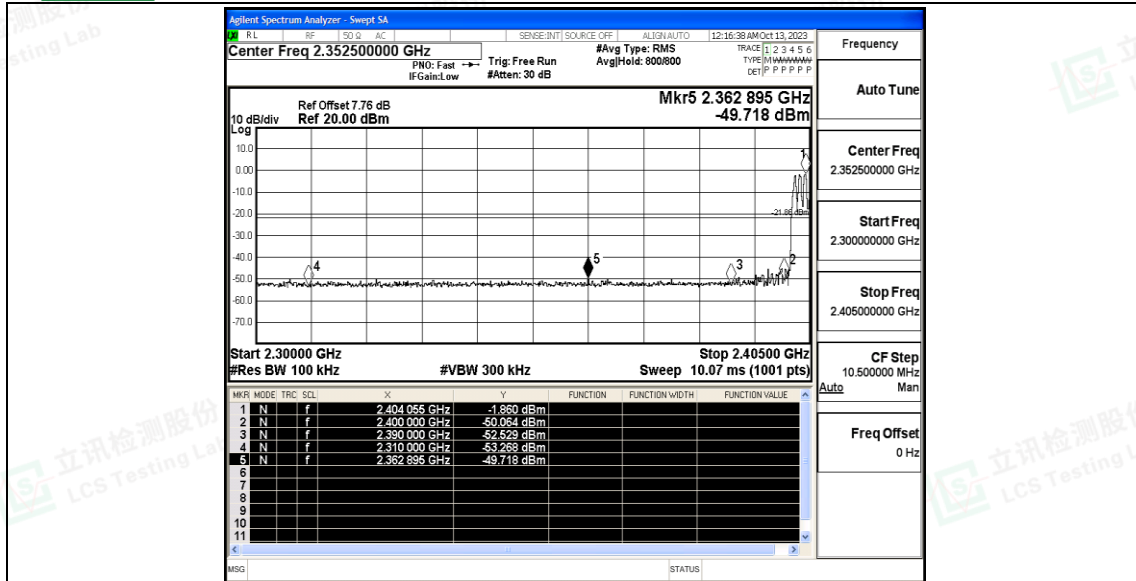
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.68	-50.56	≤ -21.68	PASS
		High	2480	-1.92	-50.75	≤ -21.92	PASS
		Low	Hop_2402	-1.86	-49.72	≤ -21.86	PASS
		High	Hop_2480	-1.50	-49.14	≤ -21.5	PASS
2DH5	Ant1	Low	2402	-6.25	-50.74	≤ -26.25	PASS
		High	2480	-5.57	-50.29	≤ -25.57	PASS
		Low	Hop_2402	-4.53	-49.75	≤ -24.53	PASS
		High	Hop_2480	-3.48	-49.21	≤ -23.48	PASS



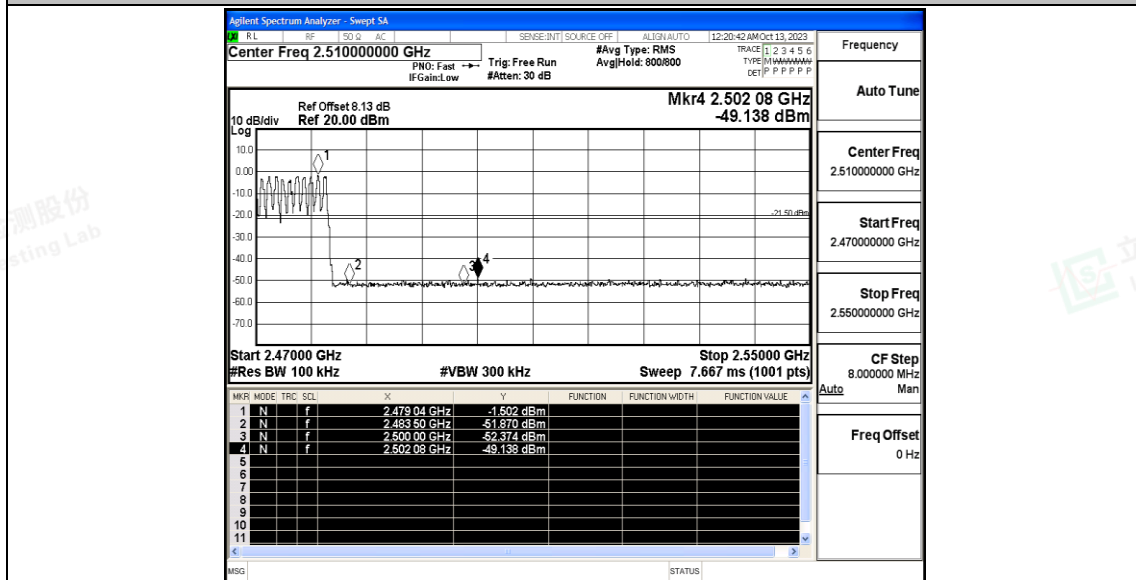


Test Graphs



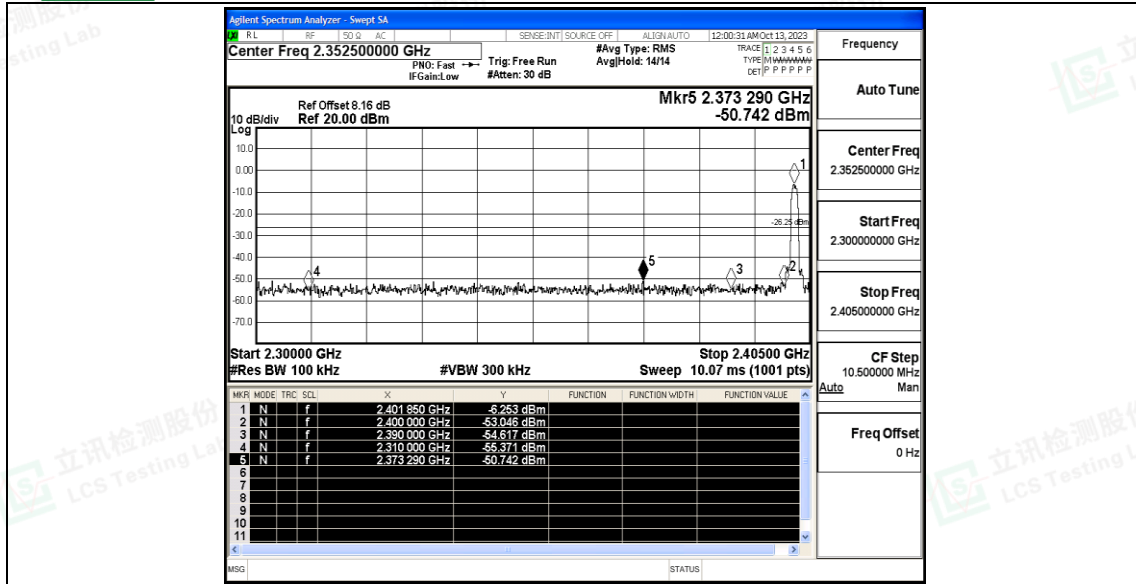


DH5_Ant1_High_Hop_2480

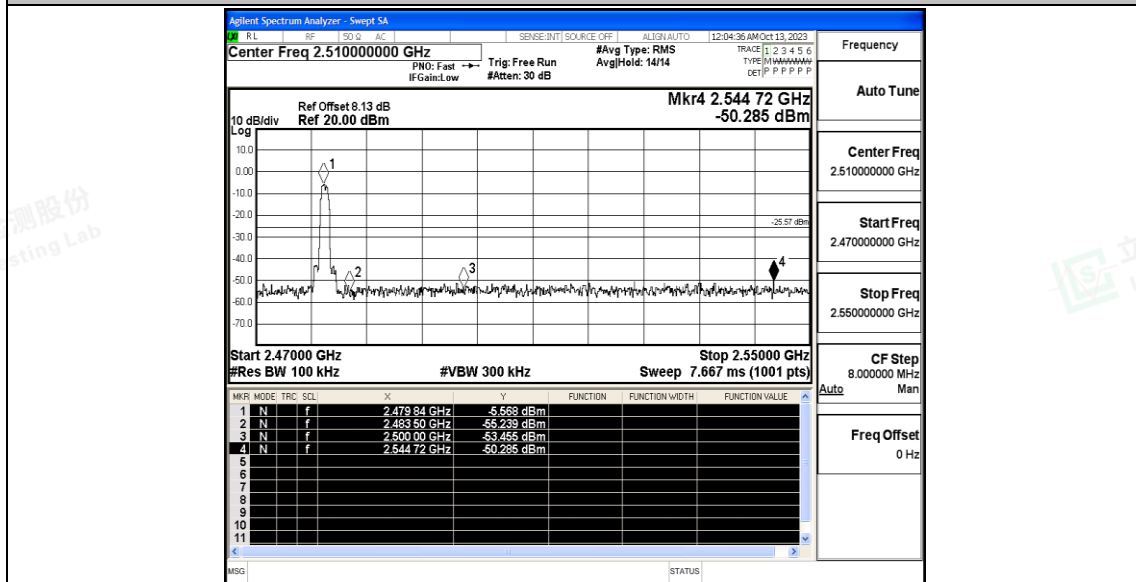


2DH5_Ant1_Low_2402



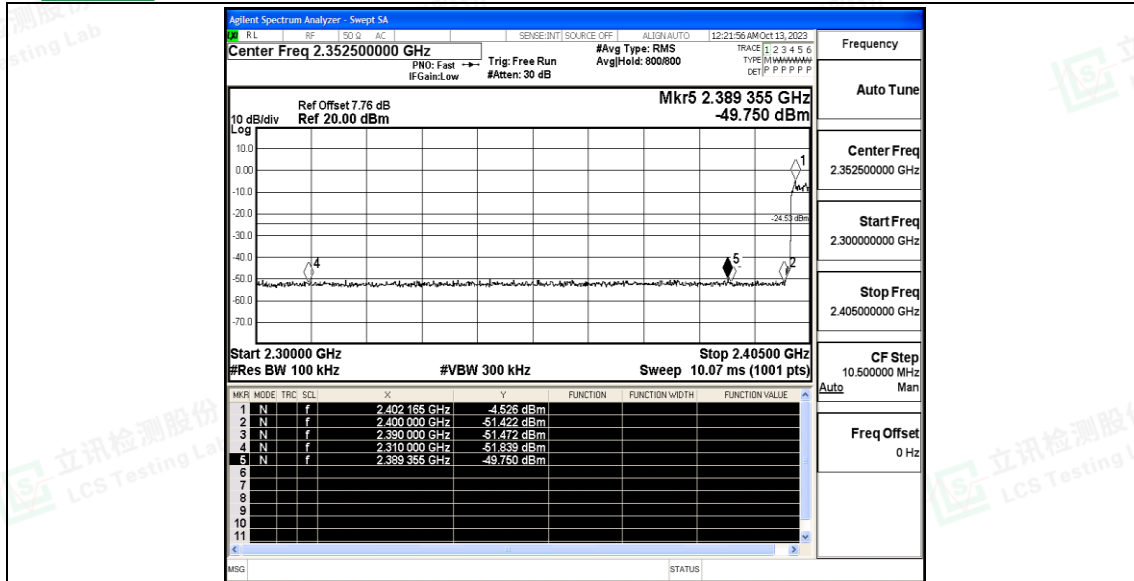


2DH5_Ant1_High_2480

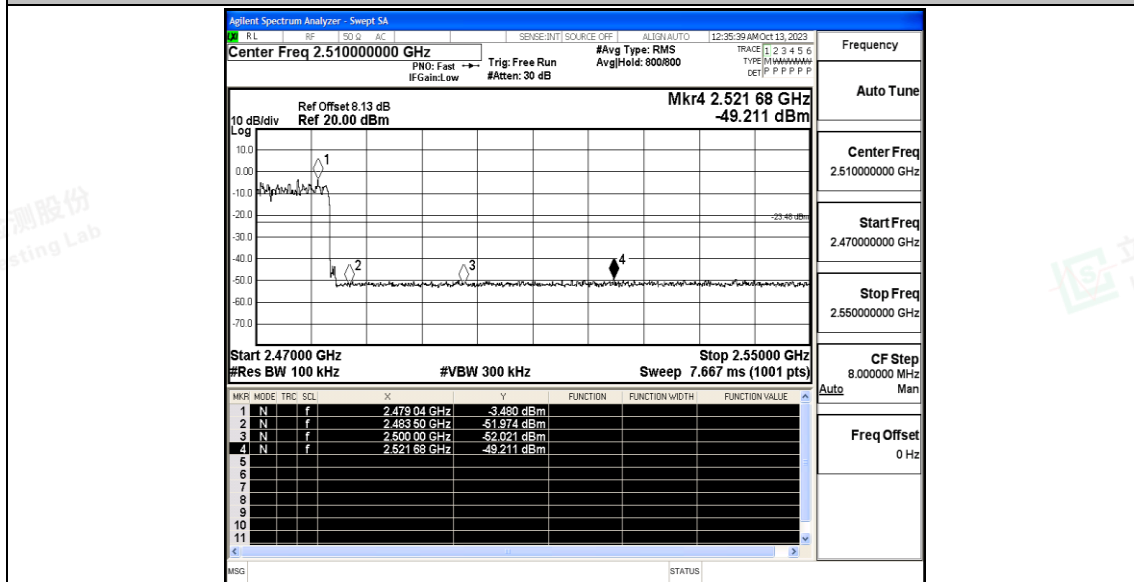


2DH5_Ant1_Low_Hop_2402





2DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

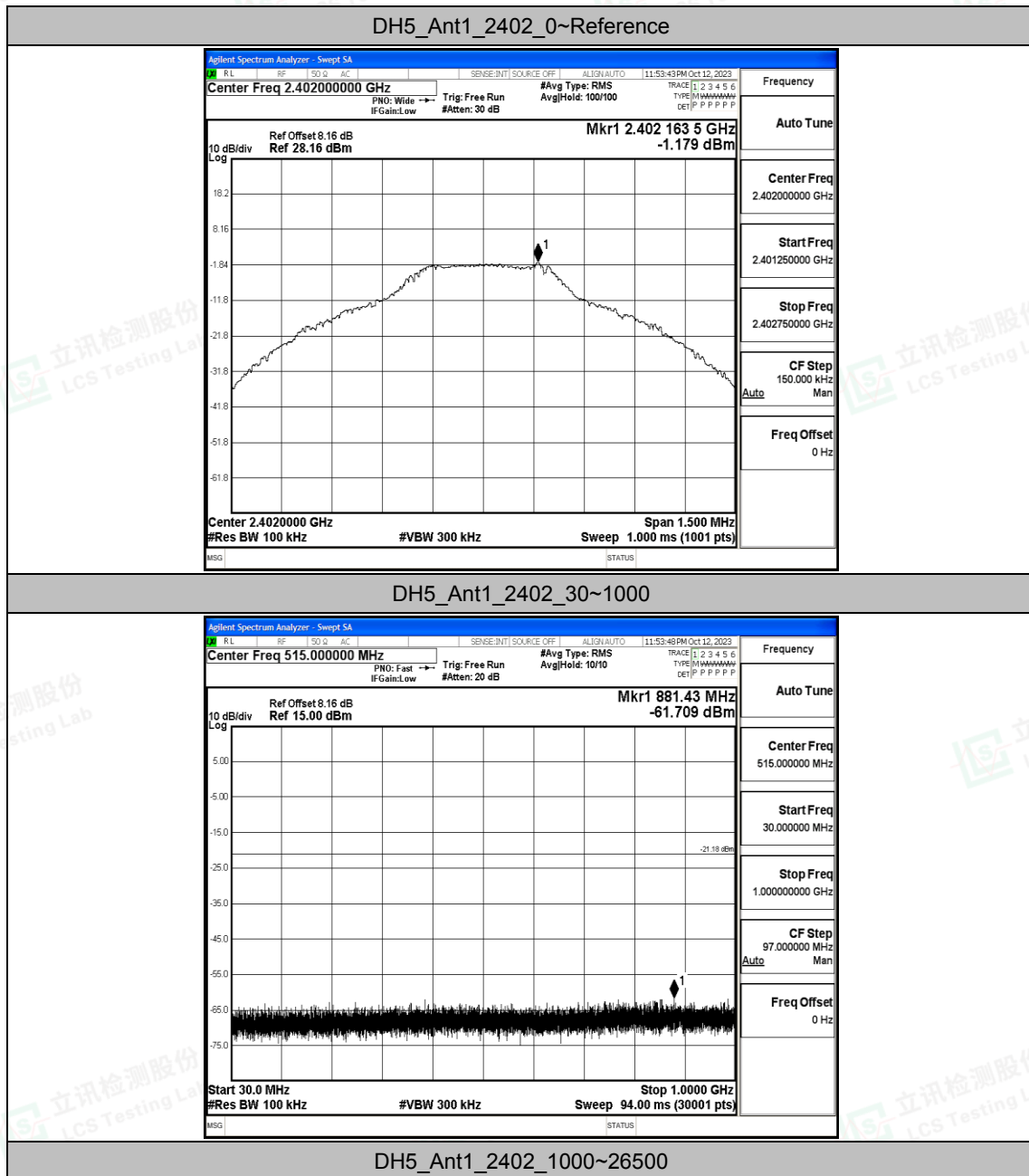
Test Result

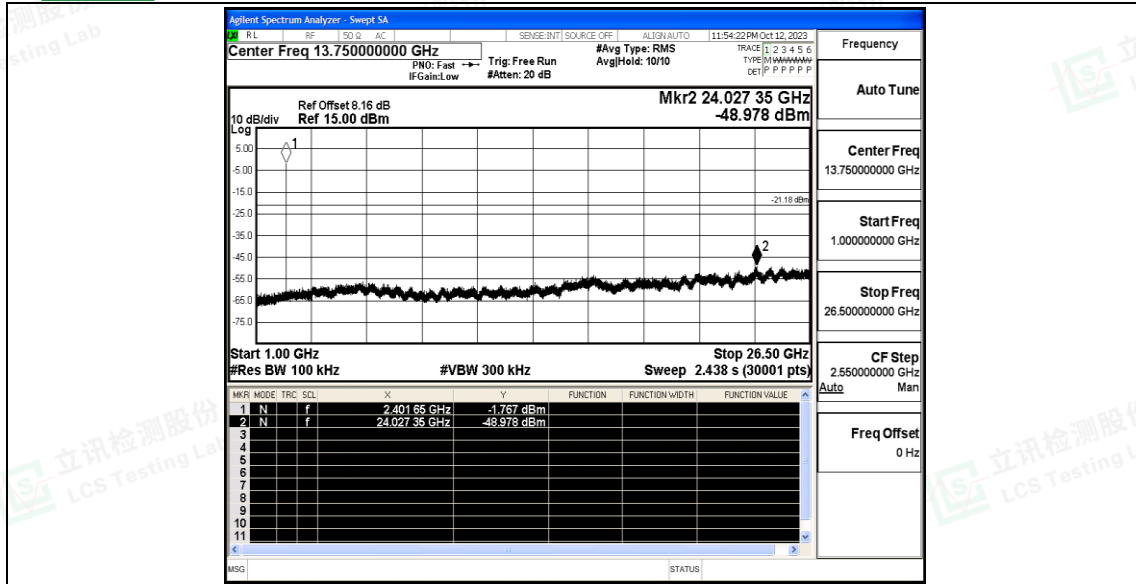
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.18	-1.18	---	PASS
			30~1000	-1.18	-61.71	≤-21.18	PASS
			1000~26500	-1.18	-48.98	≤-21.18	PASS
		2441	Reference	0.12	0.12	---	PASS
			30~1000	0.12	-61.39	≤-19.88	PASS
			1000~26500	0.12	-48.87	≤-19.88	PASS
		2480	Reference	-1.61	-1.61	---	PASS
			30~1000	-1.61	-61.34	≤-21.61	PASS
			1000~26500	-1.61	-49.01	≤-21.61	PASS
2DH5	Ant1	2402	Reference	-2.94	-2.94	---	PASS
			30~1000	-2.94	-61.11	≤-22.94	PASS
			1000~26500	-2.94	-48.67	≤-22.94	PASS
		2441	Reference	-1.79	-1.79	---	PASS
			30~1000	-1.79	-61.43	≤-21.79	PASS
			1000~26500	-1.79	-48.71	≤-21.79	PASS
		2480	Reference	-3.05	-3.05	---	PASS
			30~1000	-3.05	-61.46	≤-23.05	PASS
			1000~26500	-3.05	-49.54	≤-23.05	PASS



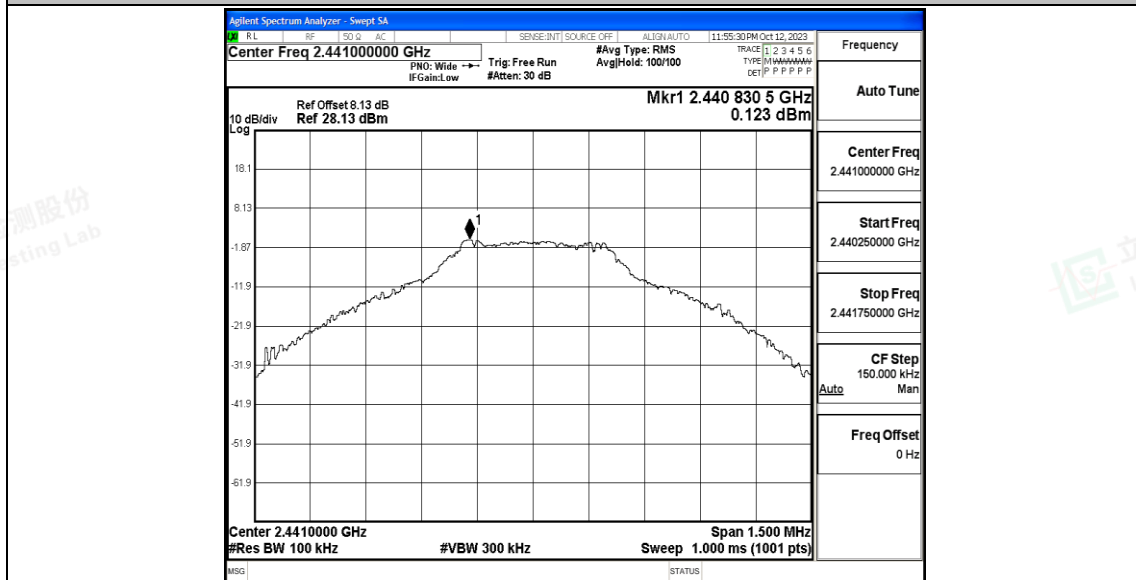


Test Graphs



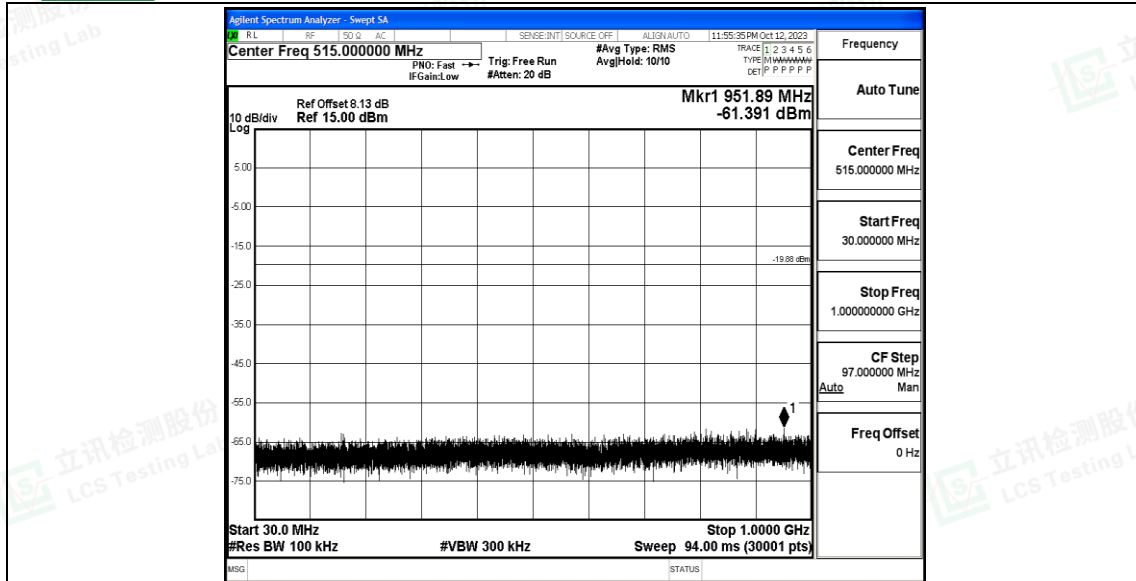


DH5_Ant1_2441_0~Reference

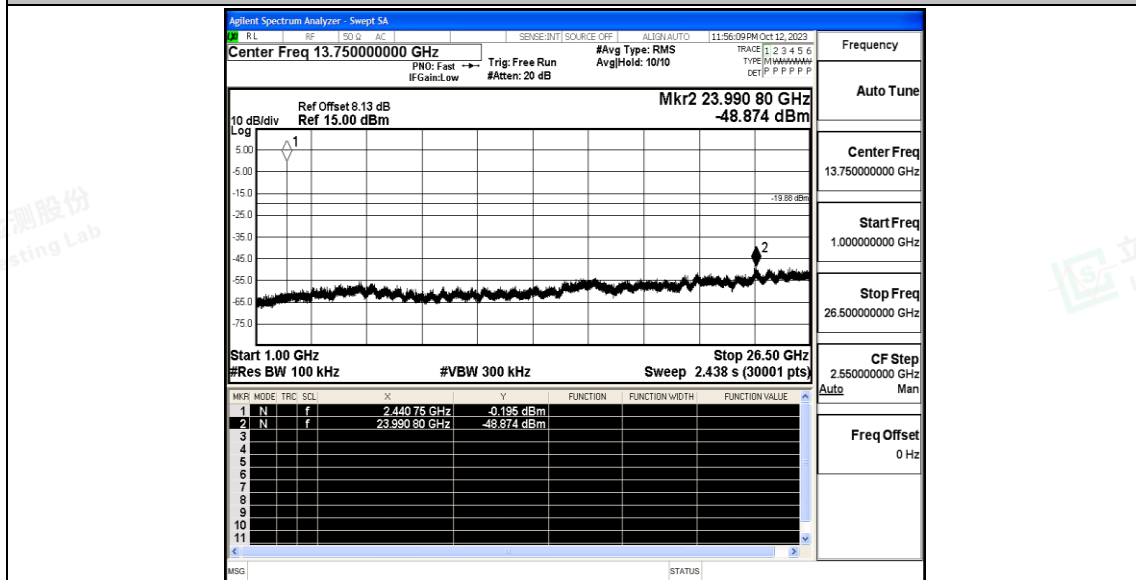


DH5_Ant1_2441_30~1000



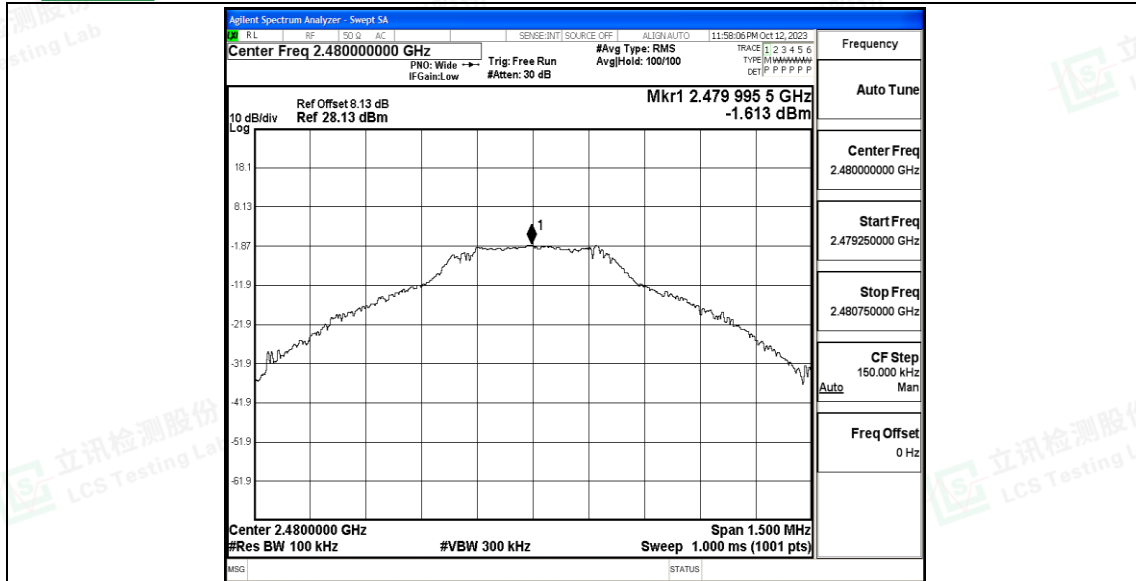


DH5_Ant1_2441_1000~26500

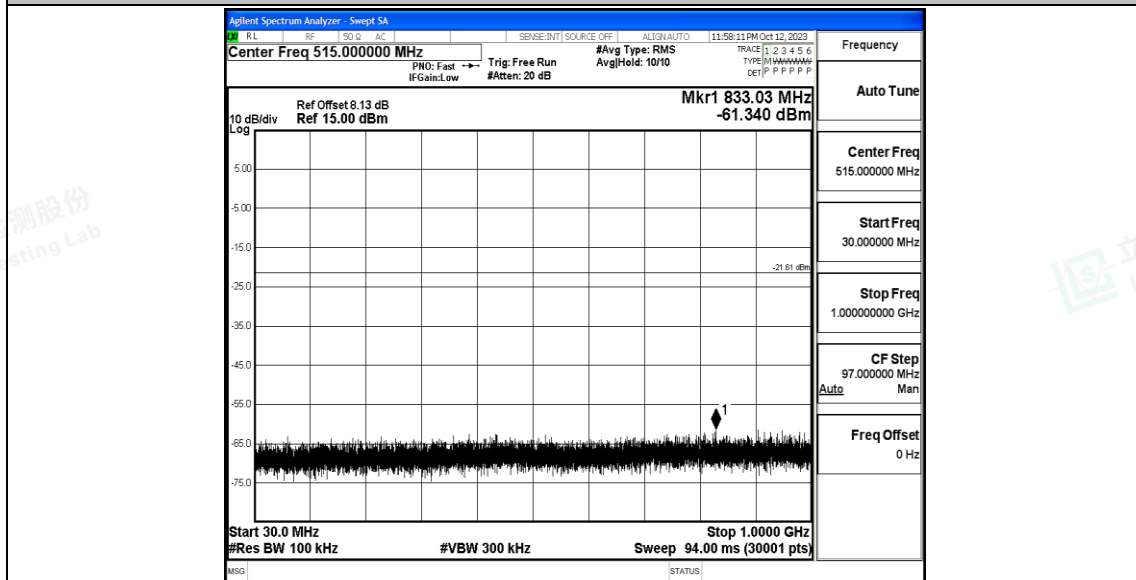


DH5_Ant1_2480_0~Reference



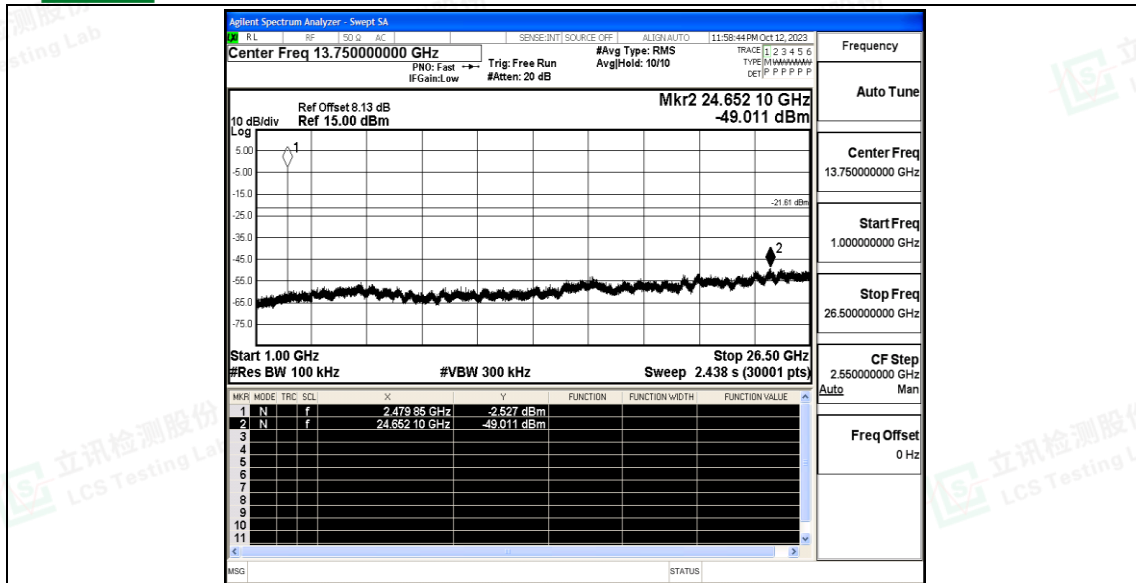


DH5_Ant1_2480_30~1000

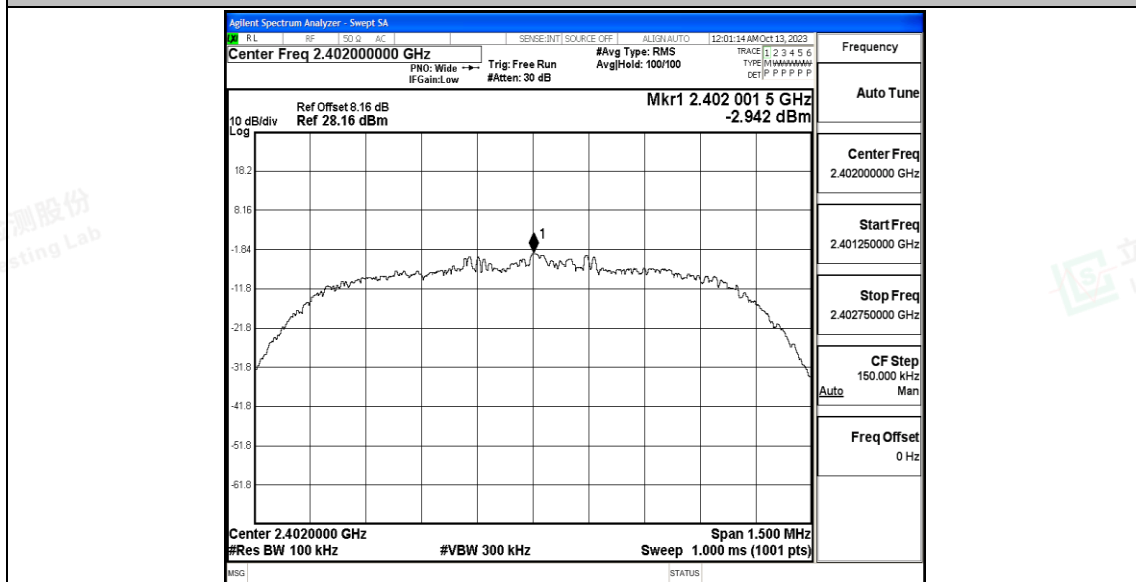


DH5_Ant1_2480_1000~26500



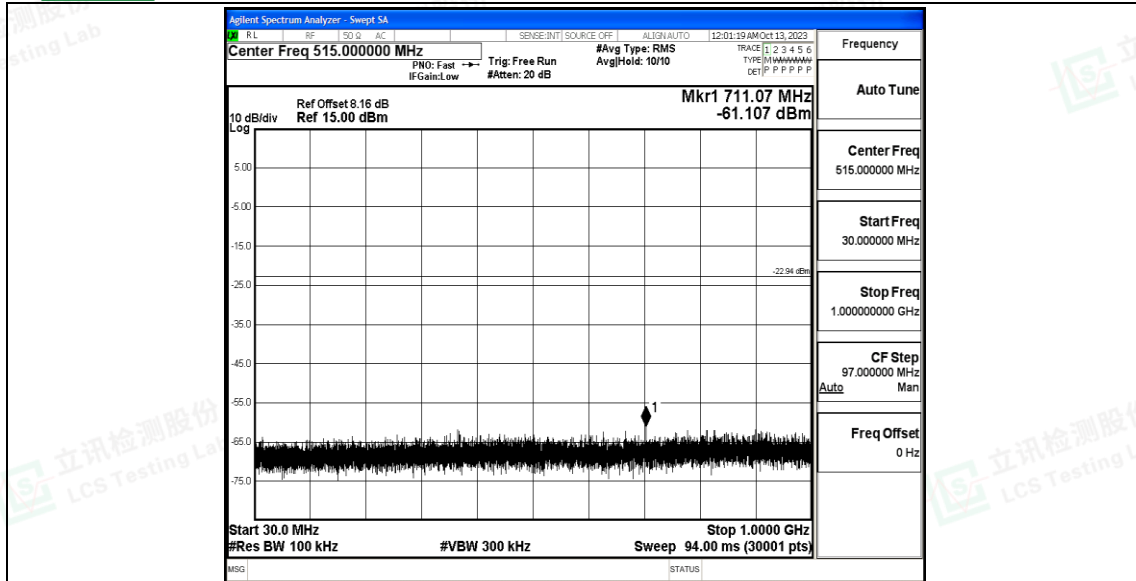


2DH5_Ant1_2402_0~Reference

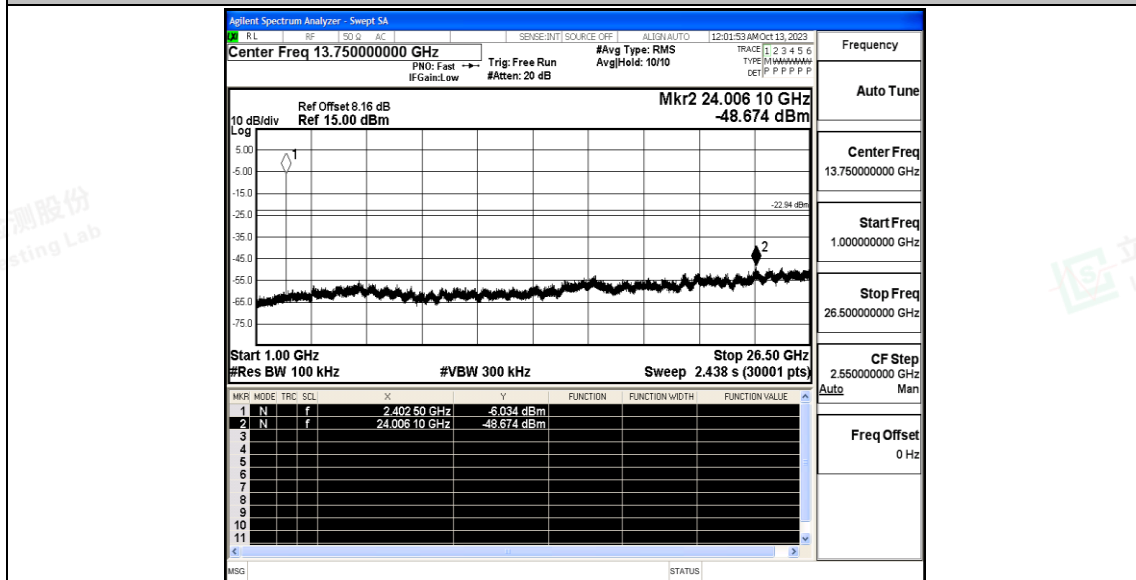


2DH5_Ant1_2402_30~1000



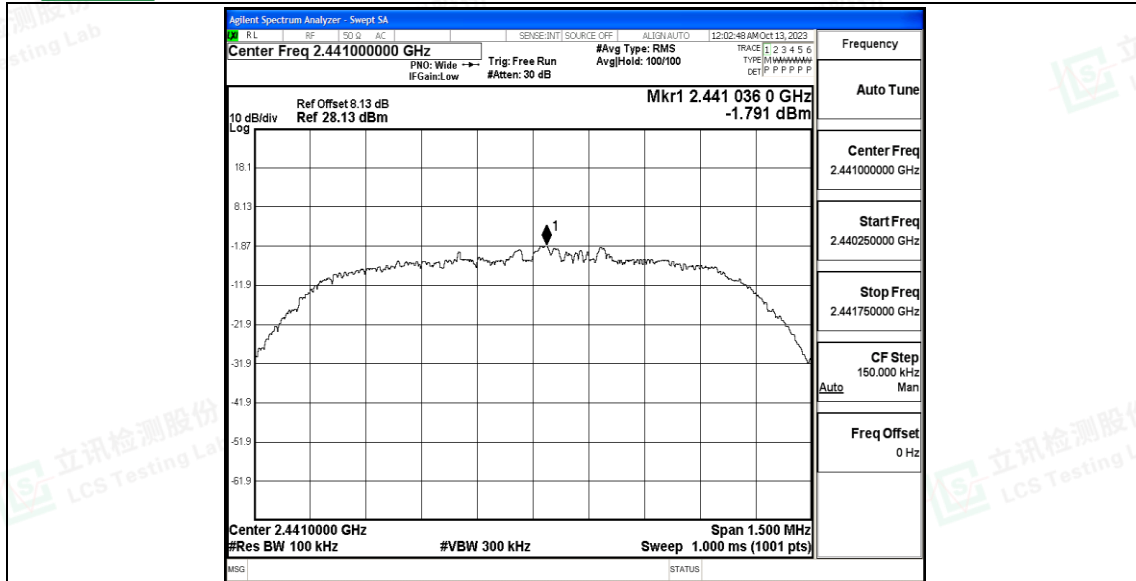


2DH5_Ant1_2402_1000~26500

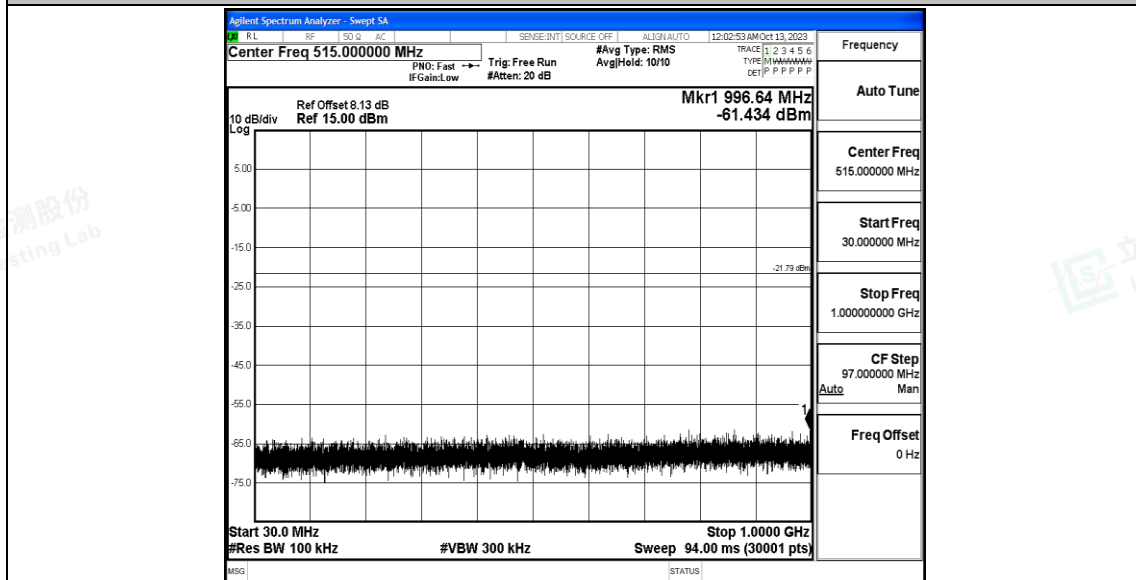


2DH5_Ant1_2441_0~Reference



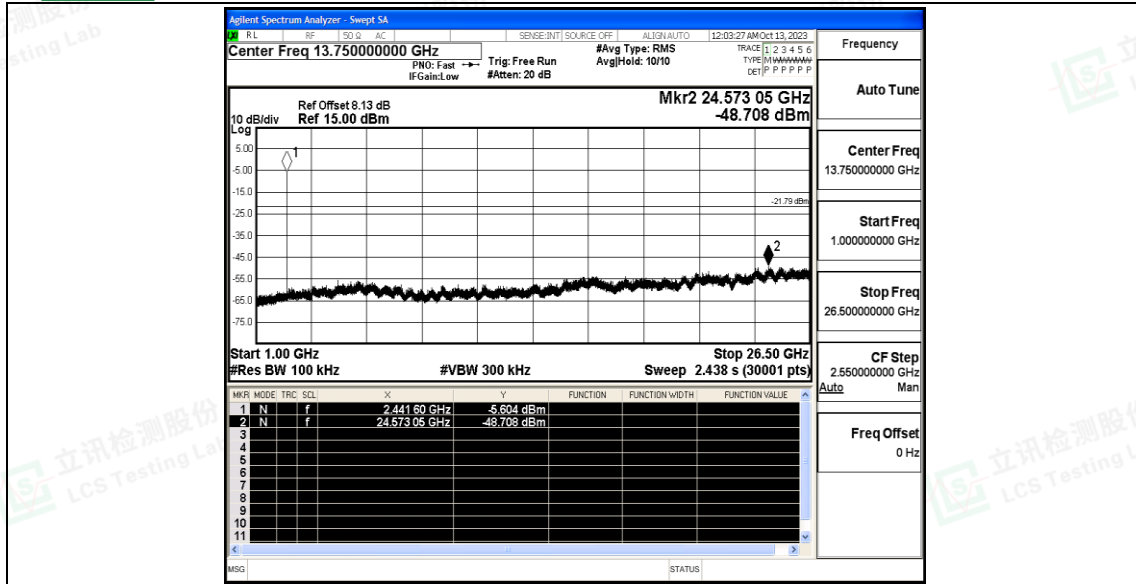


2DH5_Ant1_2441_30~1000

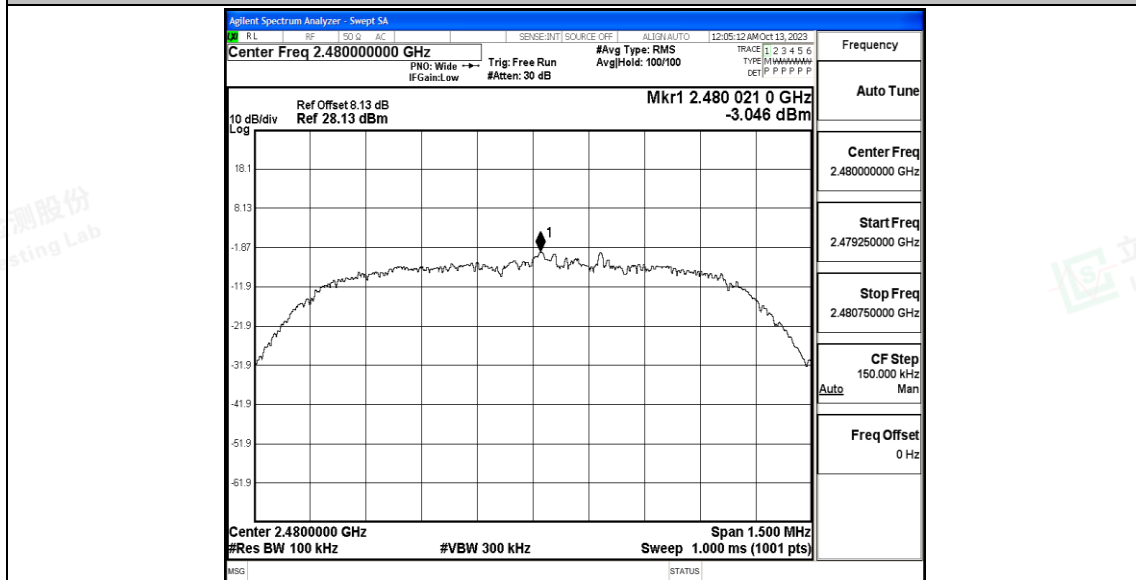


2DH5_Ant1_2441_1000~26500



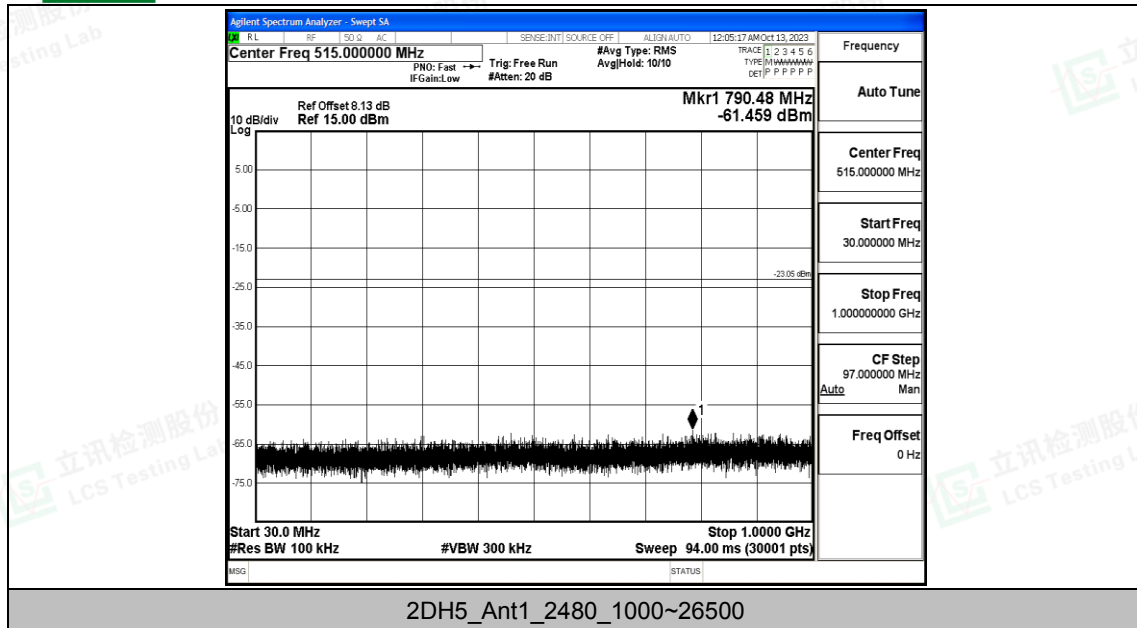


2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000







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	-49.09	≤-41.20	46.11	≤54	PASS
				AV	2373.080	-48.64	≤-41.20	46.56	≤54	PASS
				AV	2390.000	-48.76	≤-41.20	46.44	≤54	PASS
				Peak	2310.000	-44.54	≤-21.20	50.66	≤74	PASS
				Peak	2354.705	-39.16	≤-21.20	56.04	≤74	PASS
				Peak	2390.000	-43.51	≤-21.20	51.69	≤74	PASS
		High	2480	AV	2483.500	-48.56	≤-41.20	46.64	≤54	PASS
				AV	2484.320	-48.5	≤-41.20	46.70	≤54	PASS
				AV	2500.000	-48.68	≤-41.20	46.52	≤54	PASS
				Peak	2483.500	-44.14	≤-21.20	51.06	≤74	PASS
				Peak	2499.520	-39.22	≤-21.20	55.98	≤74	PASS
				Peak	2500.000	-43.38	≤-21.20	51.82	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-41.49	≤-21.20	53.71	≤74	PASS
				Peak	2314.595	-38.64	≤-21.20	56.56	≤74	PASS
				Peak	2390.000	-41.45	≤-21.20	53.75	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-39.57	≤-21.20	55.63	≤74	PASS
				Peak	2495.200	-38.48	≤-21.20	56.72	≤74	PASS
				Peak	2500.000	-40.35	≤-21.20	54.85	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.12	≤-41.20	46.08	≤54	PASS
				AV	2384.315	-48.59	≤-41.20	46.61	≤54	PASS
				AV	2390.000	-48.75	≤-41.20	46.45	≤54	PASS
				Peak	2310.000	-43.74	≤-21.20	51.46	≤74	PASS
				Peak	2351.555	-39.77	≤-21.20	55.43	≤74	PASS
				Peak	2390.000	-43.58	≤-21.20	51.62	≤74	PASS
		High	2480	AV	2483.500	-48.19	≤-41.20	47.01	≤54	PASS
				AV	2483.520	-48.19	≤-41.20	47.01	≤54	PASS
				AV	2500.000	-48.6	≤-41.20	46.60	≤54	PASS
				Peak	2483.500	-43.27	≤-21.20	51.93	≤74	PASS
				Peak	2493.760	-39.17	≤-21.20	56.03	≤74	PASS
				Peak	2500.000	-45.22	≤-21.20	49.98	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-39.58	≤-21.20	55.62	≤74	PASS
				Peak	2353.865	-38.23	≤-21.20	56.97	≤74	PASS
				Peak	2390.000	-41.03	≤-21.20	54.17	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-40.6	≤-21.20	54.60	≤74	PASS
				Peak	2498.960	-38.22	≤-21.20	56.98	≤74	PASS



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			Peak	2500.000	-39.26	≤-21.20	55.94	≤74	PASS
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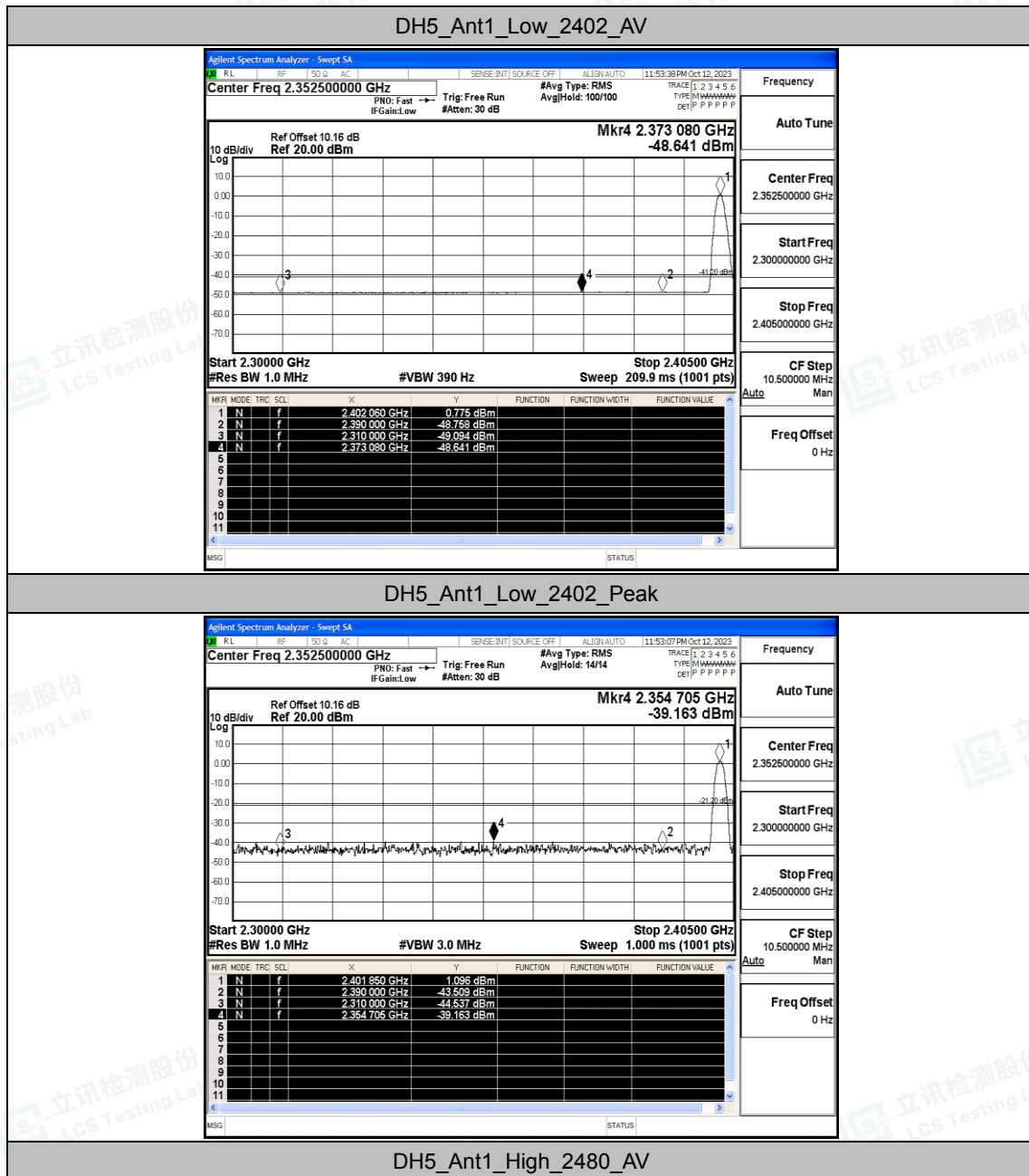
Note:

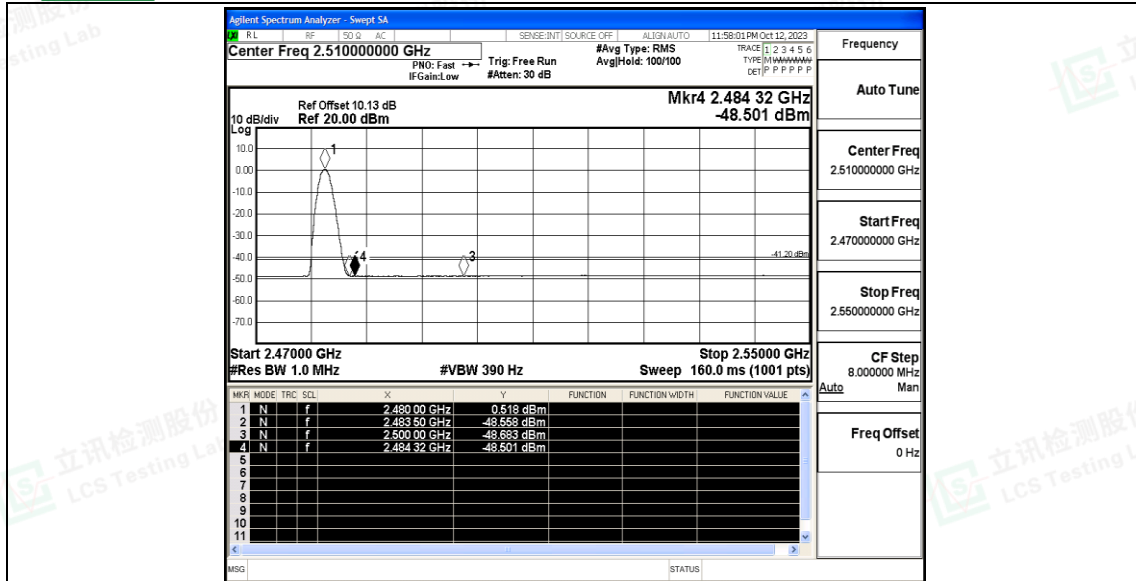
- 1. The Antenna Gain is compensated in the graph.
- 2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



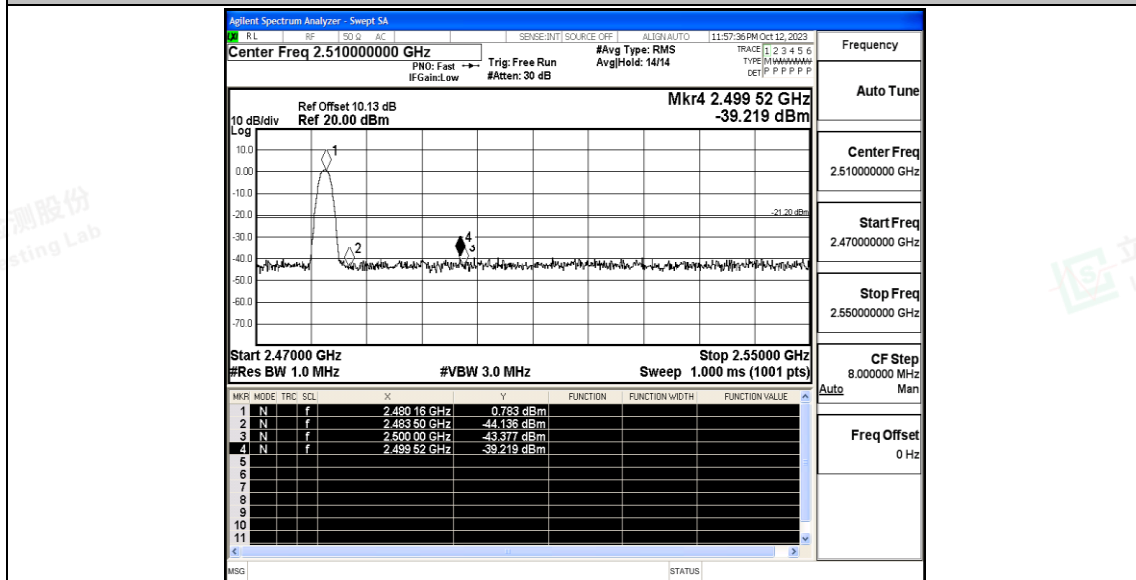


Test Graphs



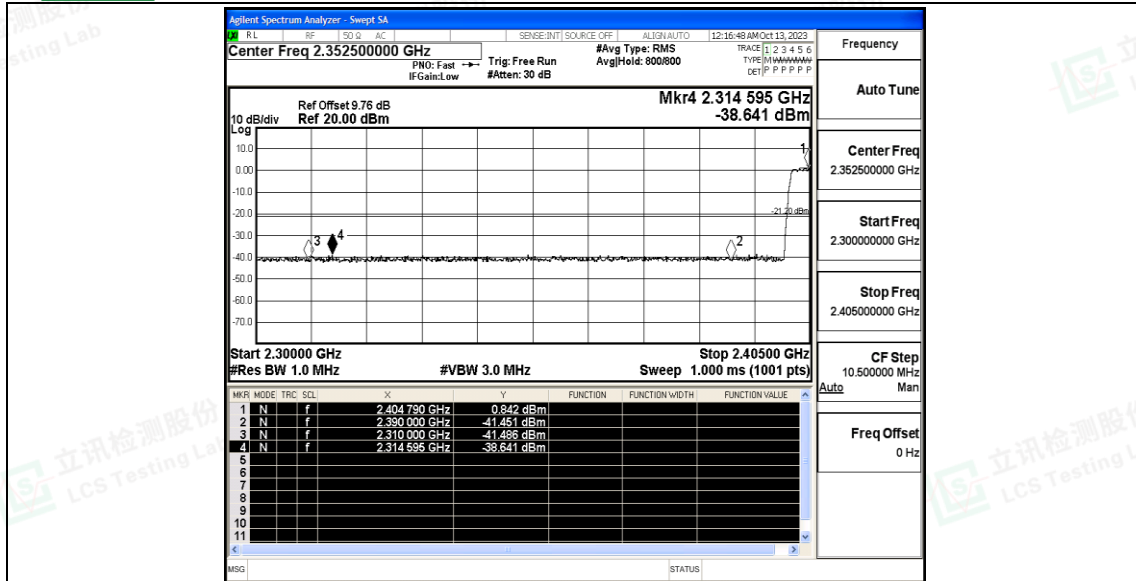


DH5_Ant1_High_2480_Peak

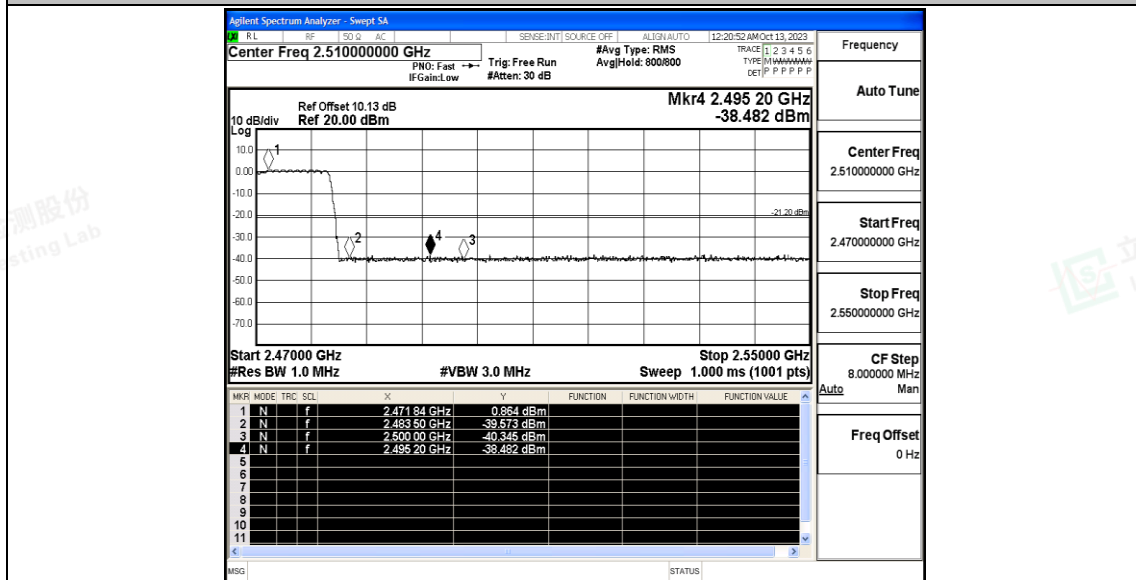


DH5_Ant1_Low_Hop_2402_Peak





DH5_Ant1_High_Hop_2480_Peak



2DH5_Ant1_Low_2402_AV

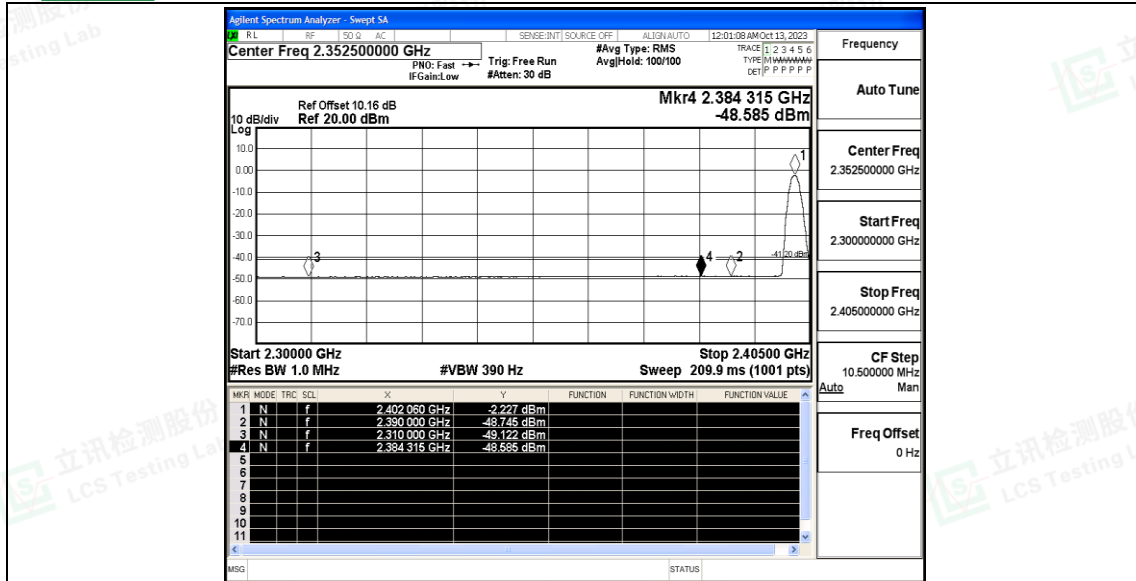


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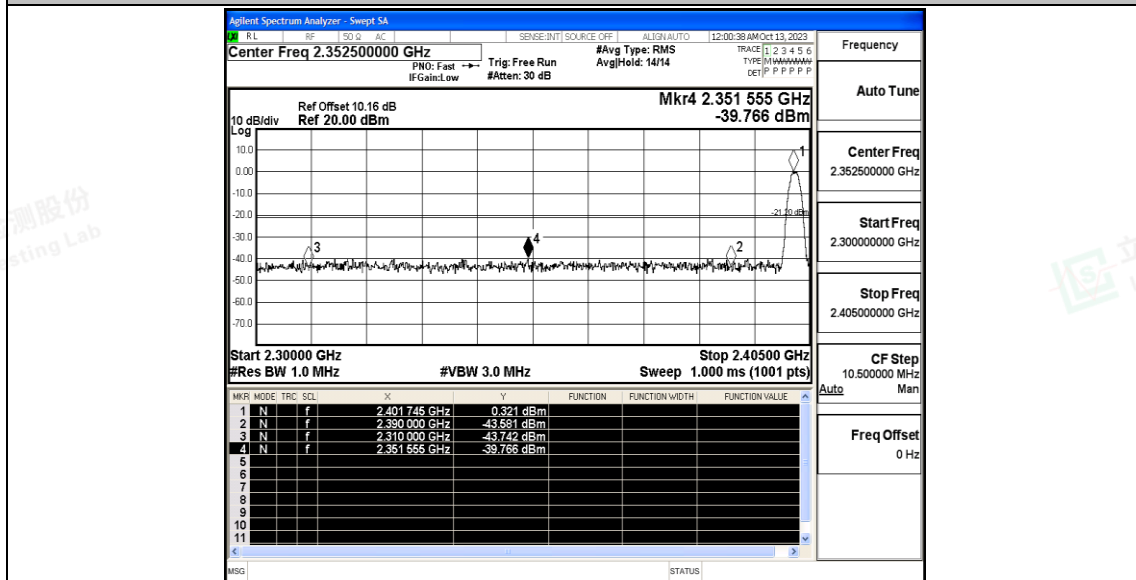
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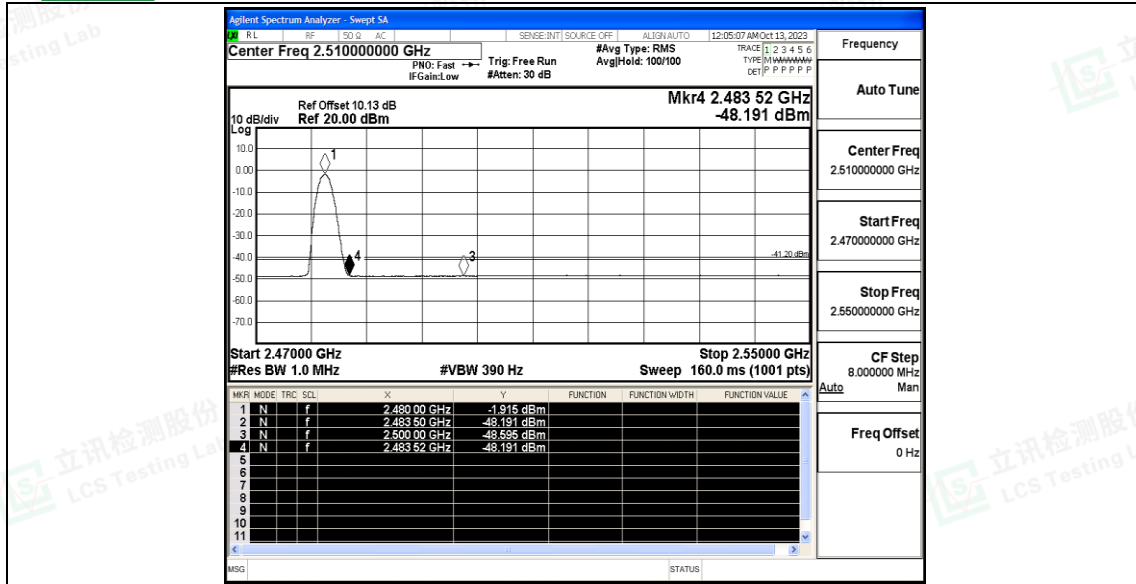


2DH5_Ant1_Low_2402_Peak

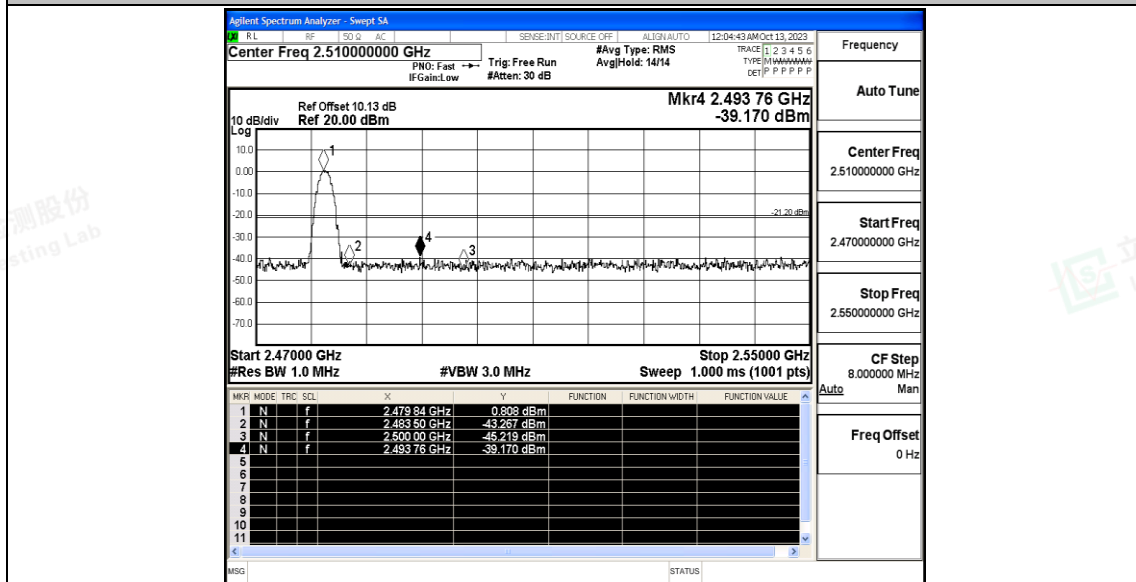


2DH5_Ant1_High_2480_AV



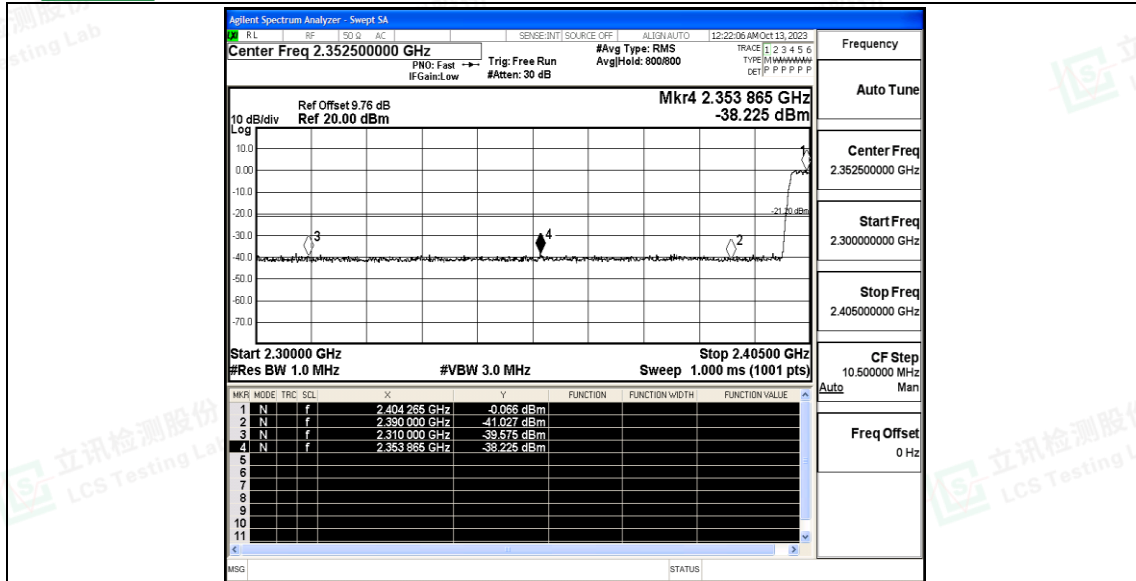


2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak





2DH5_Ant1_High_Hop_2480_Peak

