



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: NOTEBOOK

Test Model: H719

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

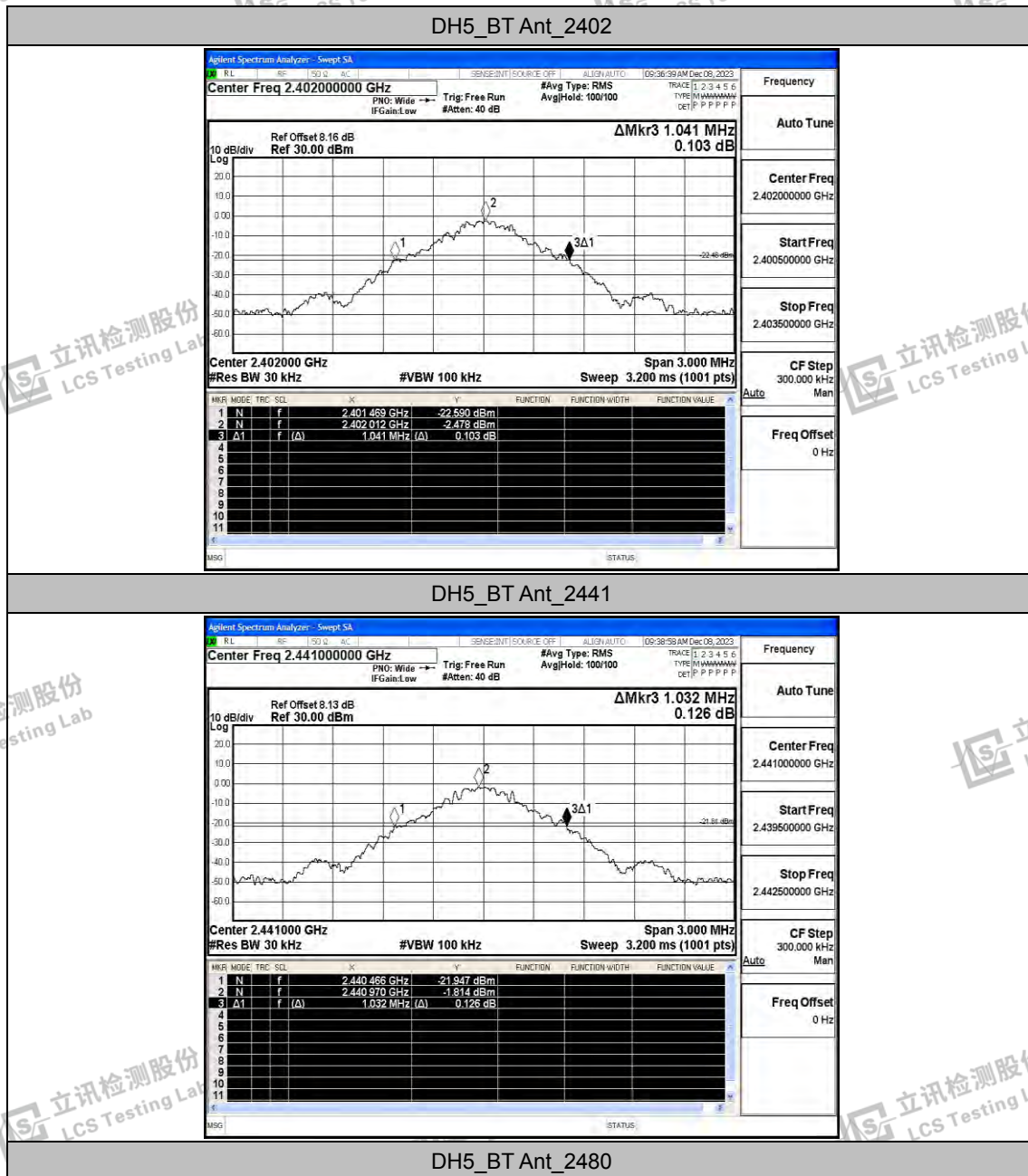
Test Result

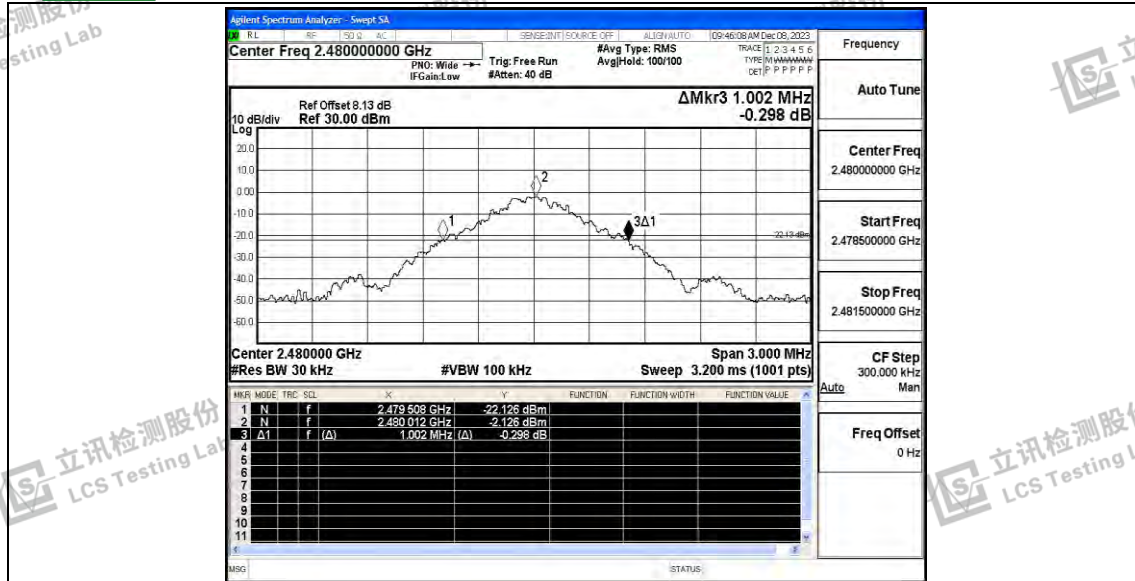
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	BT Ant	2402	1.041	2401.469	2402.510	---
		2441	1.032	2440.466	2441.498	---
		2480	1.002	2479.508	2480.510	---
2DH5	BT Ant	2402	1.320	2401.337	2402.657	---
		2441	1.326	2440.331	2441.657	---
		2480	1.320	2479.337	2480.657	---
3DH5	BT Ant	2402	1.284	2401.349	2402.633	---
		2441	1.311	2440.346	2441.657	---
		2480	1.323	2479.340	2480.663	---



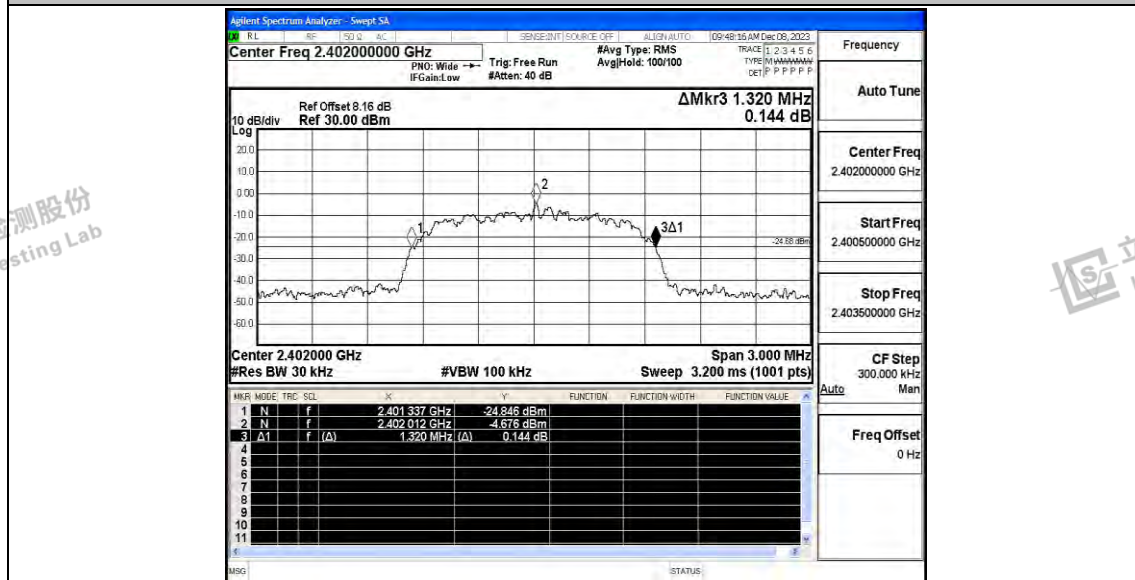


Test Graphs



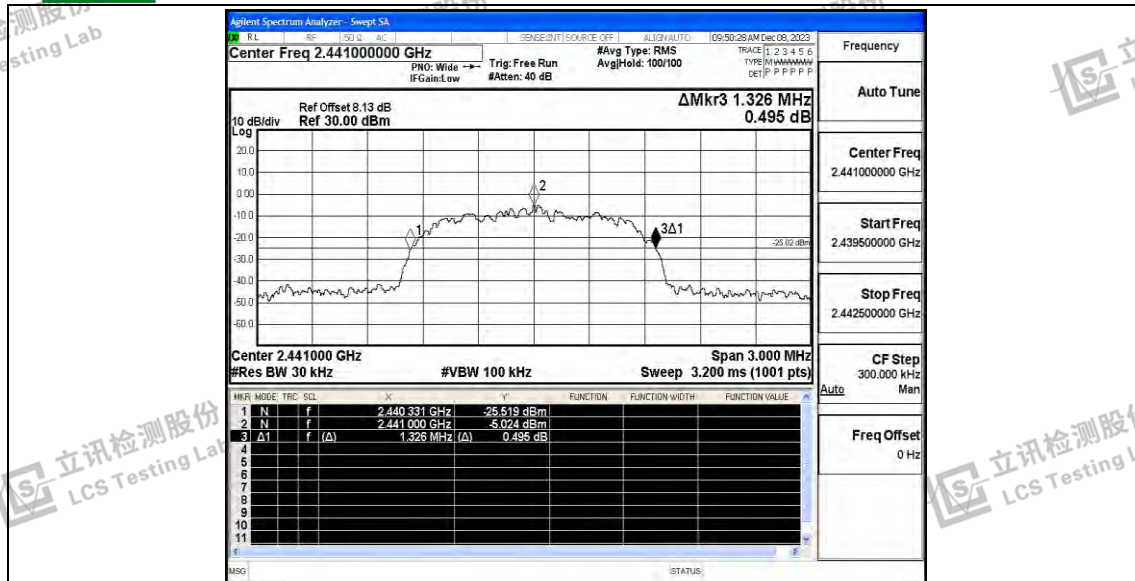


2DH5_BT Ant_2402

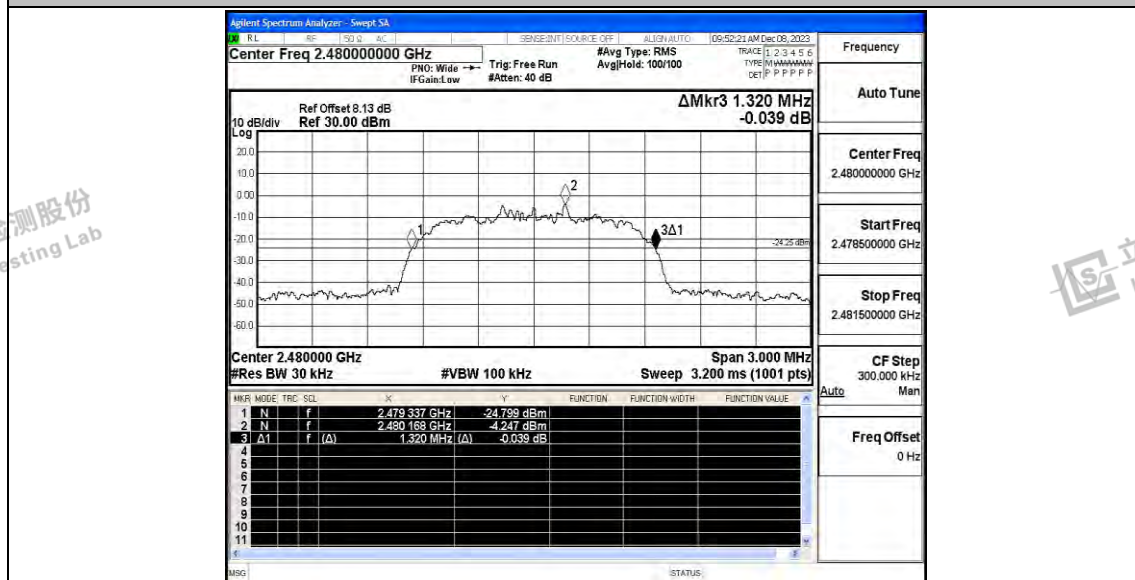


2DH5_BT Ant_2441



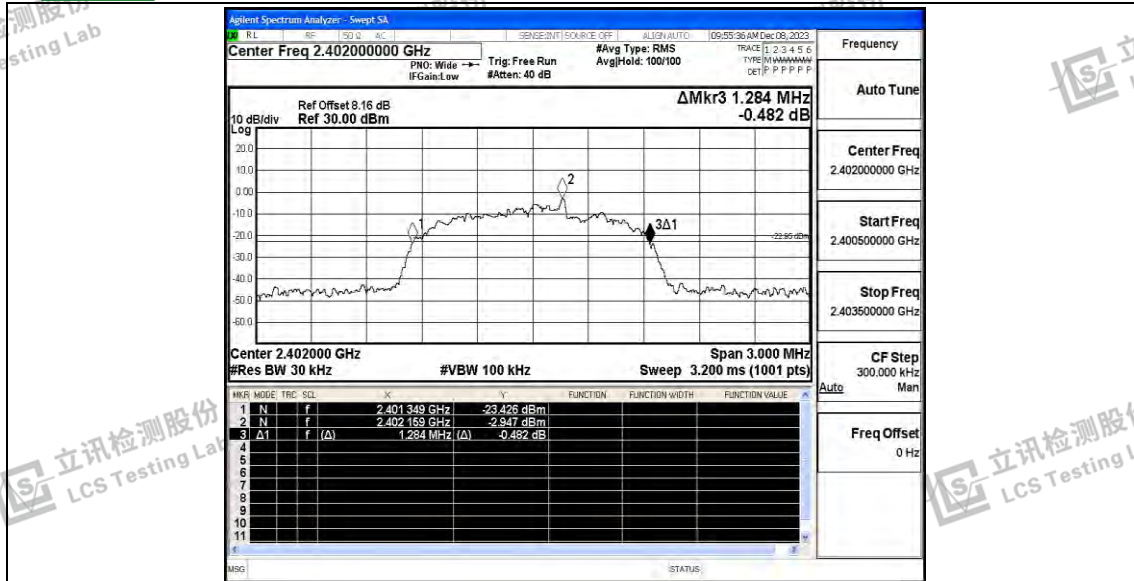


2DH5_BT Ant_2480

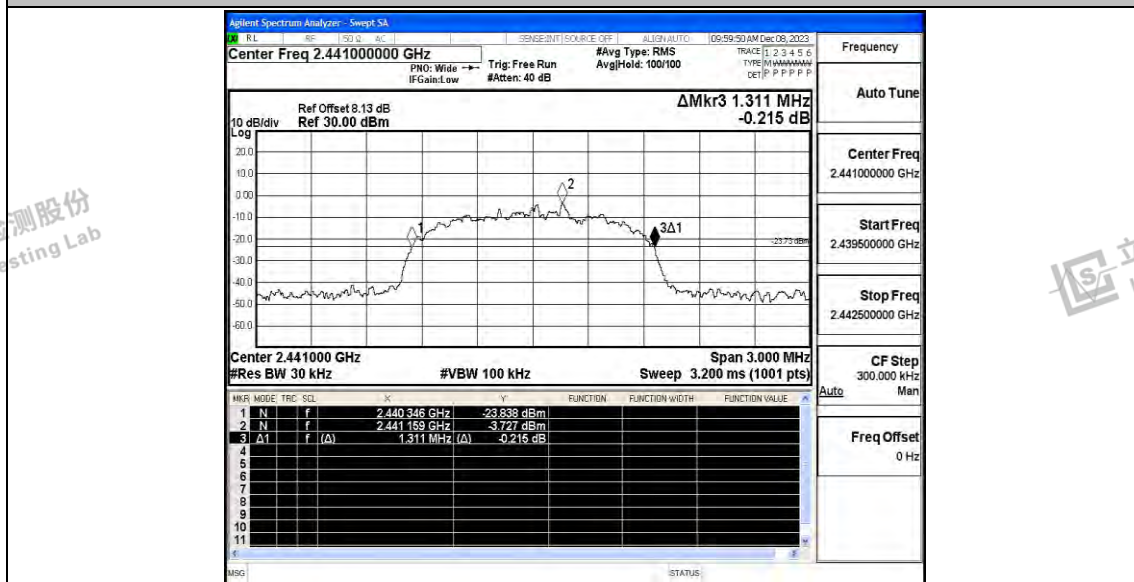


3DH5_BT Ant_2402



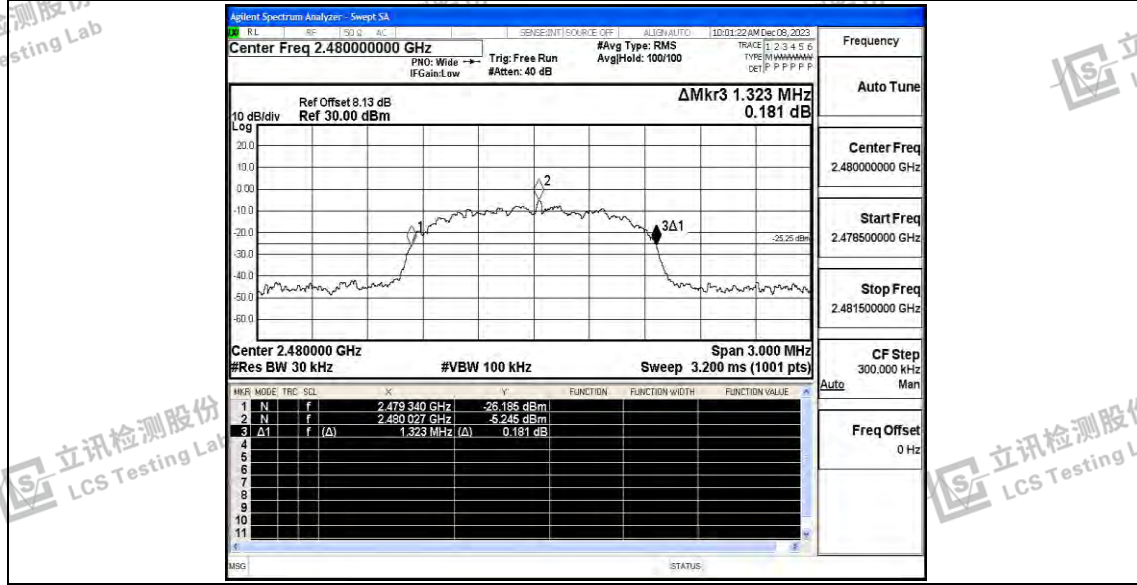


3DH5_BT Ant_2441



3DH5_BT Ant_2480







A.2 Maximum conducted output power

Test Result

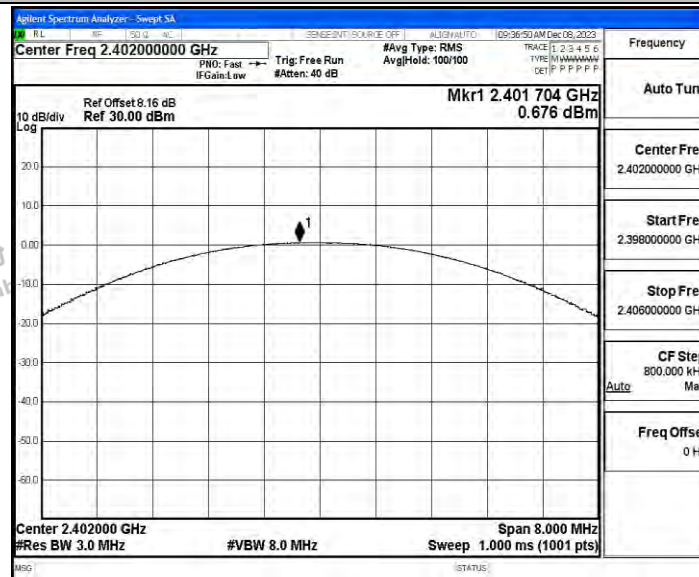
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	BT Ant	2402	0.68	≤20.97	PASS
		2441	1.38	≤20.97	PASS
		2480	1.07	≤20.97	PASS
2DH5	BT Ant	2402	0.31	≤20.97	PASS
		2441	0.99	≤20.97	PASS
		2480	0.73	≤20.97	PASS
3DH5	BT Ant	2402	0.33	≤20.97	PASS
		2441	1.22	≤20.97	PASS
		2480	0.68	≤20.97	PASS



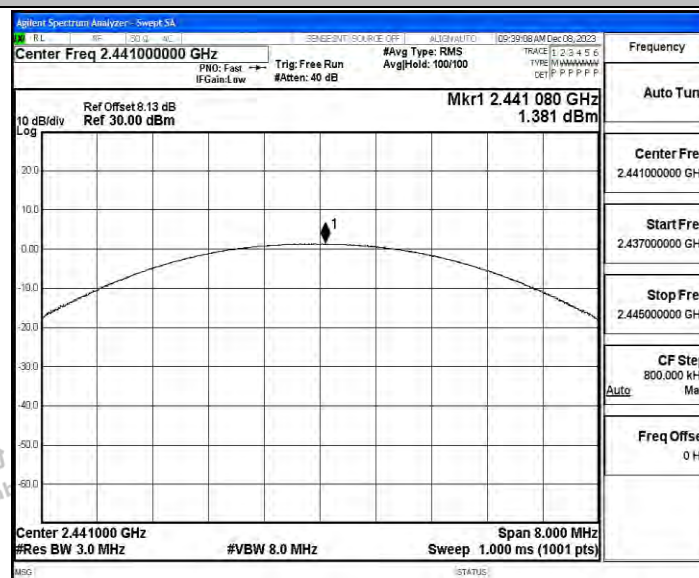


Test Graphs

DH5_BT Ant_2402

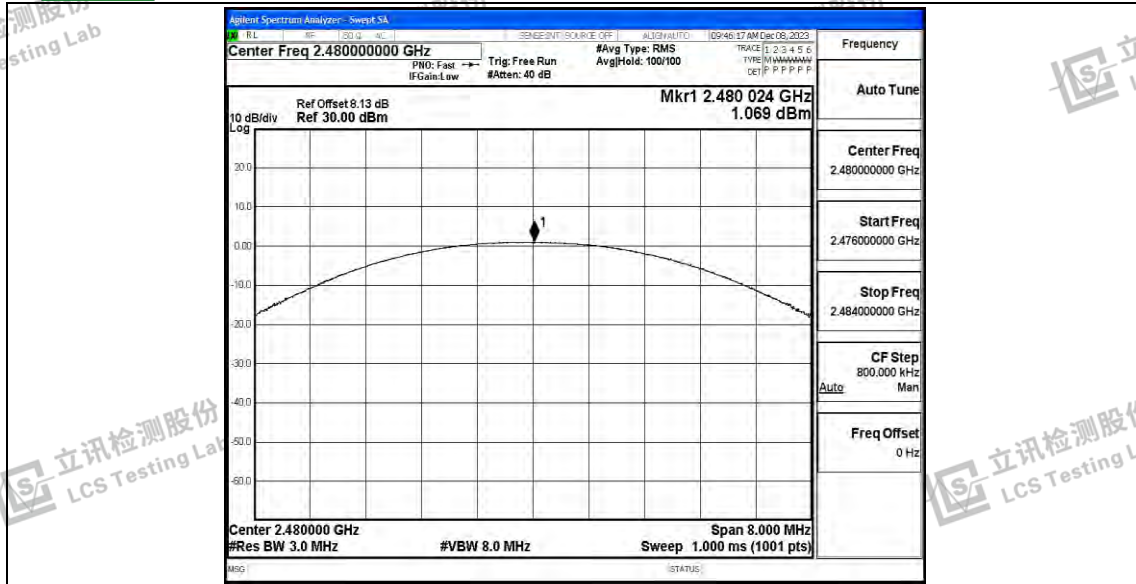


DH5_BT Ant_2441

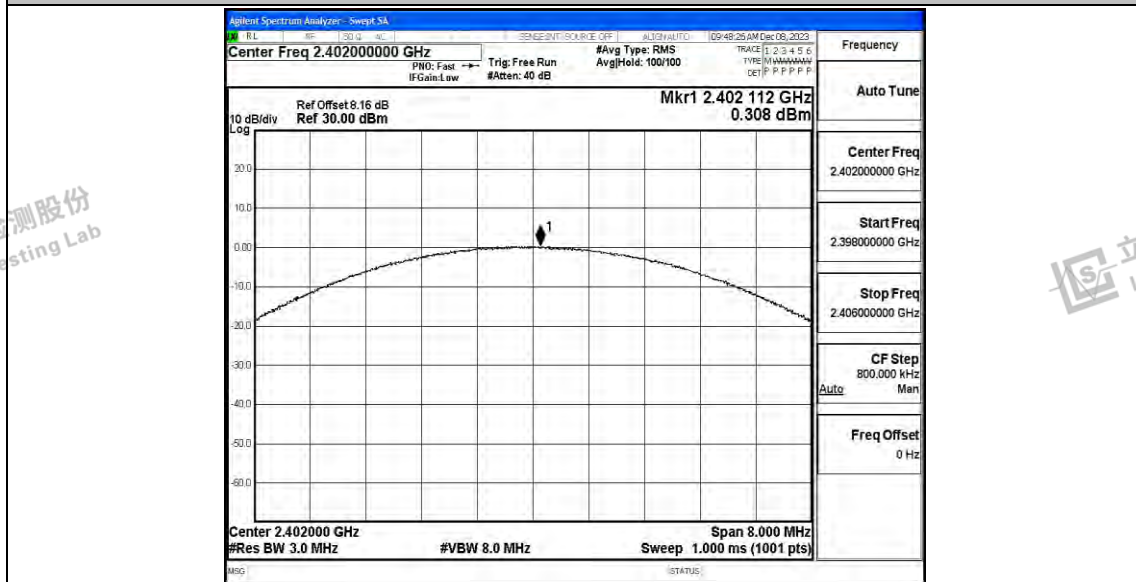


DH5_BT Ant_2480



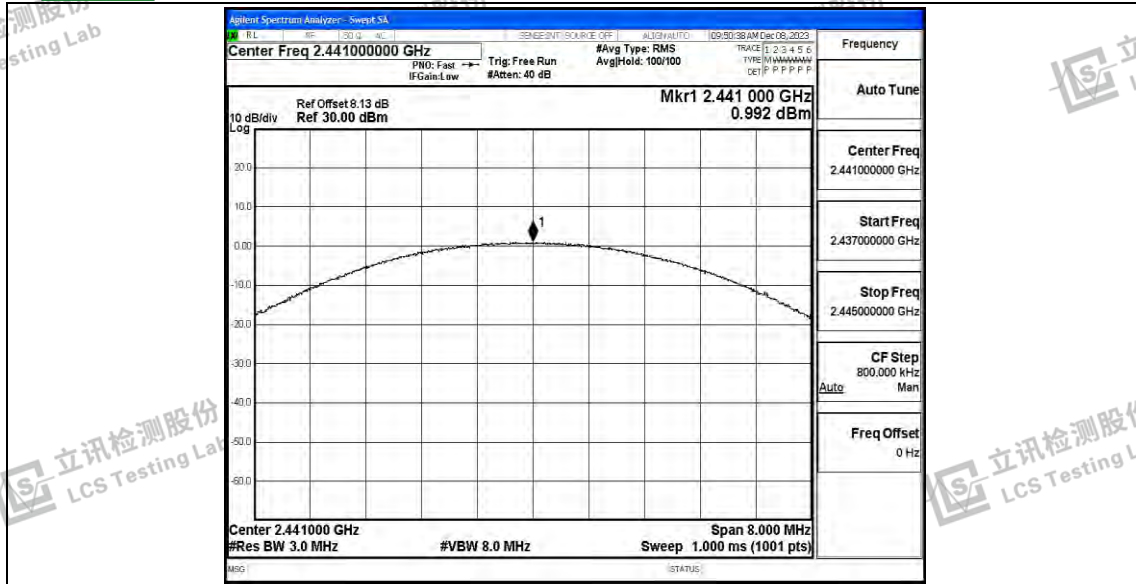


2DH5_BT Ant_2402

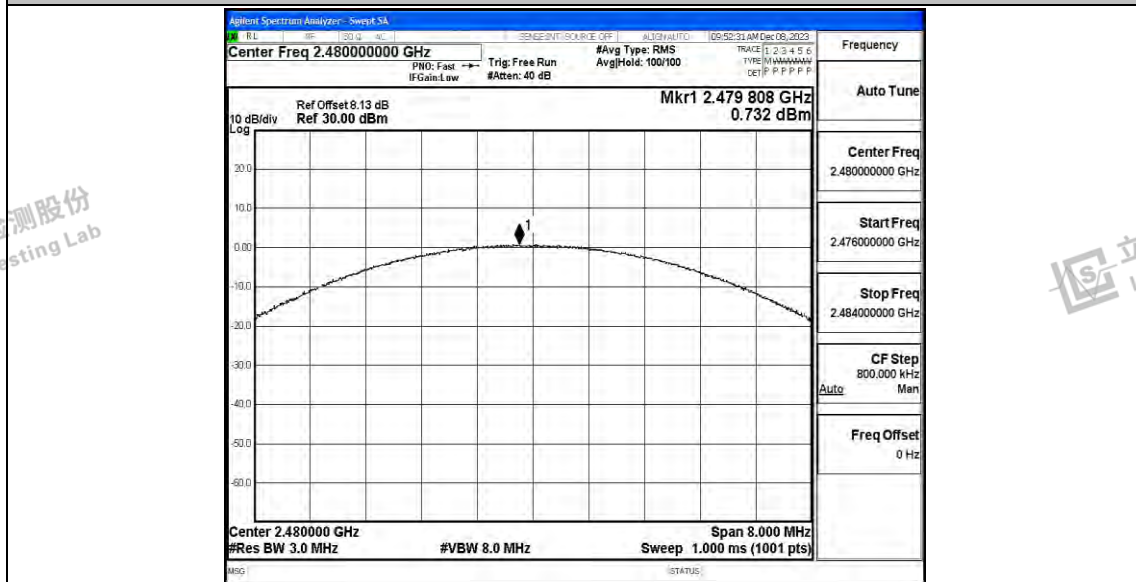


2DH5_BT Ant_2441



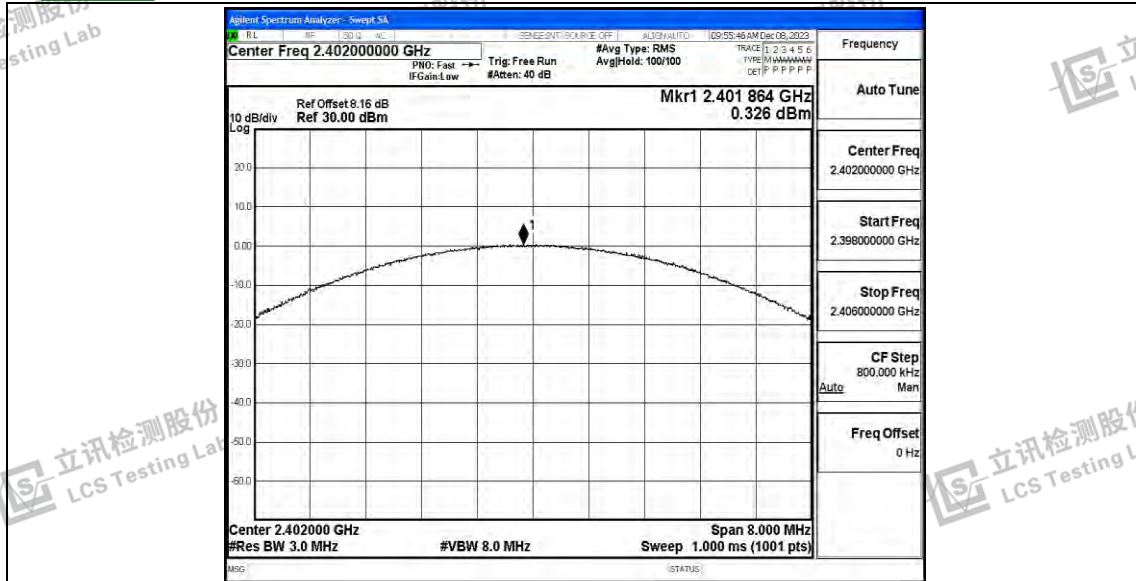


2DH5_BT Ant_2480

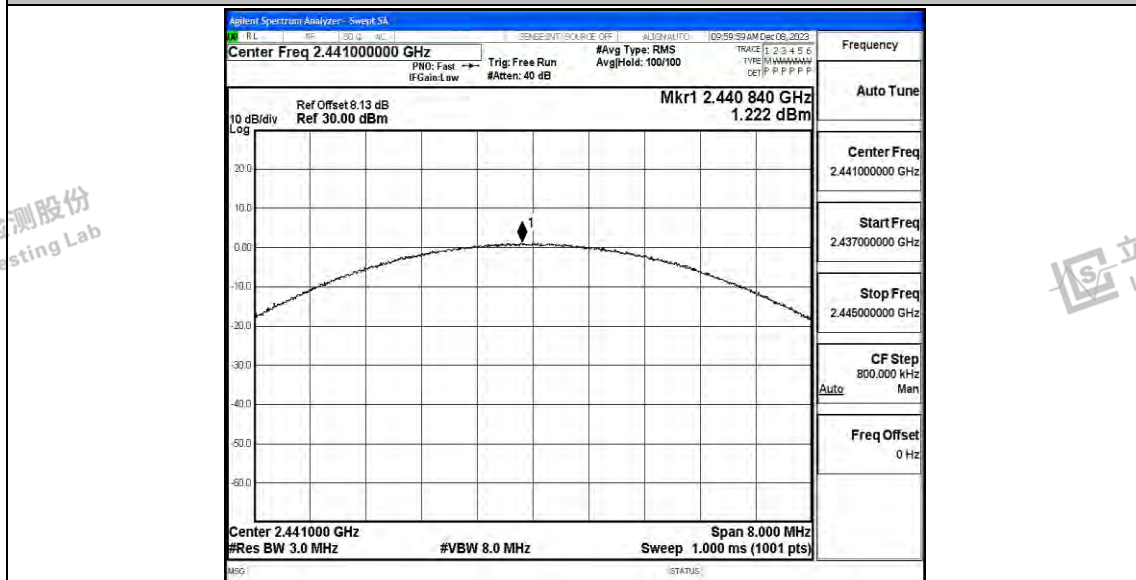


3DH5_BT Ant_2402



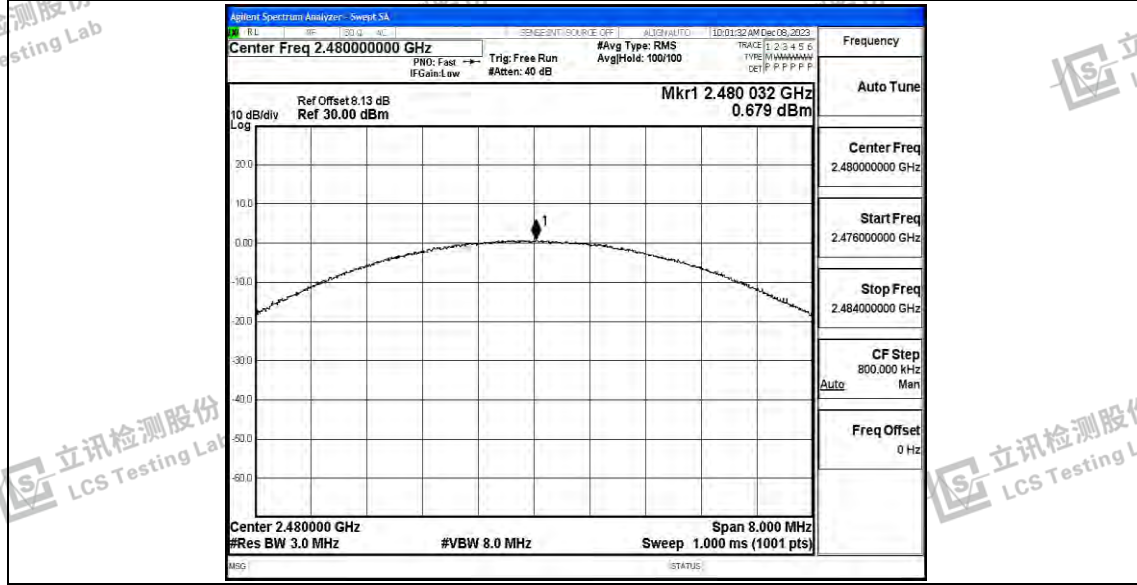


3DH5_BT Ant_2441



3DH5_BT Ant_2480







A.3 Carrier frequency separation

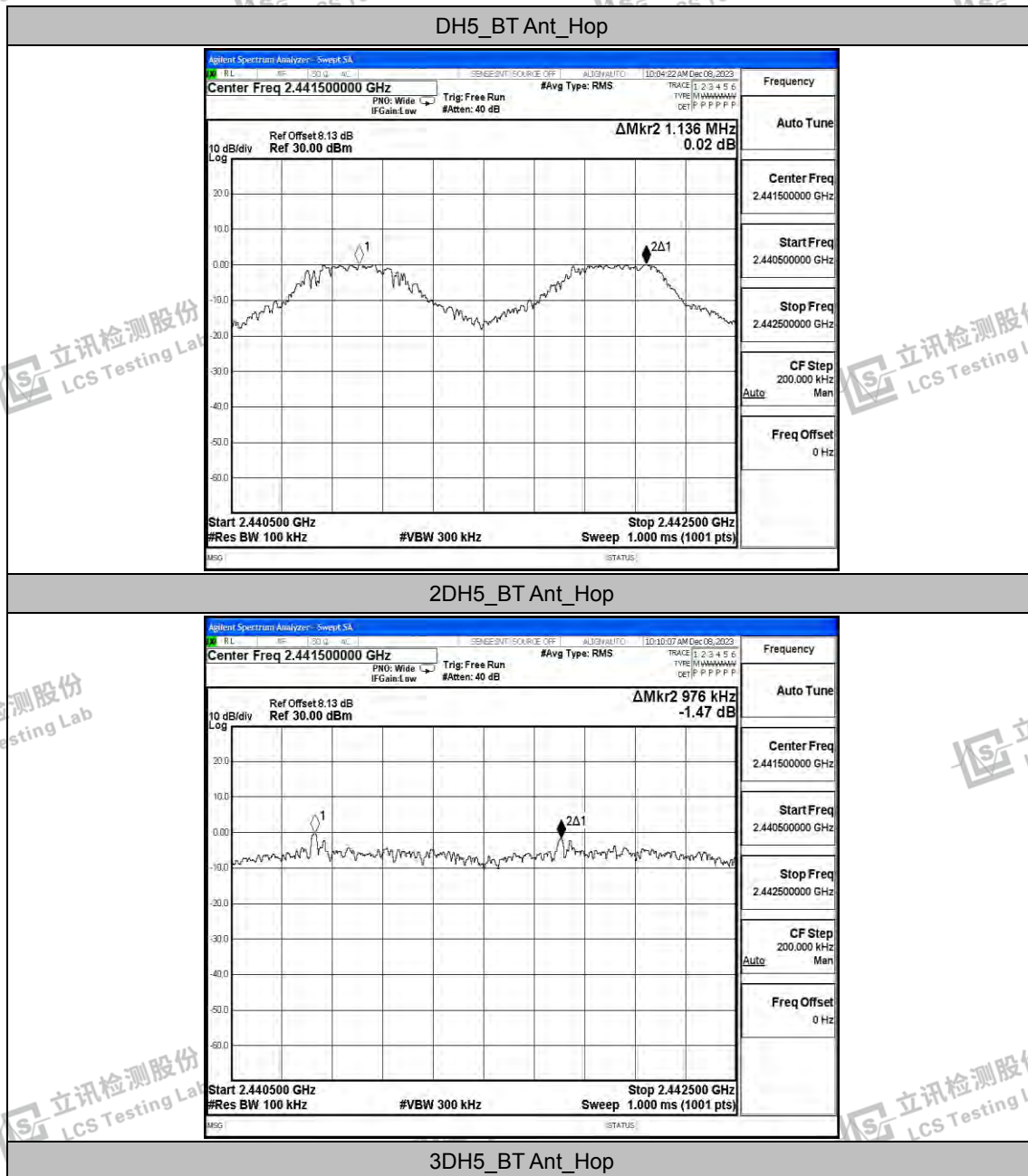
Test Result

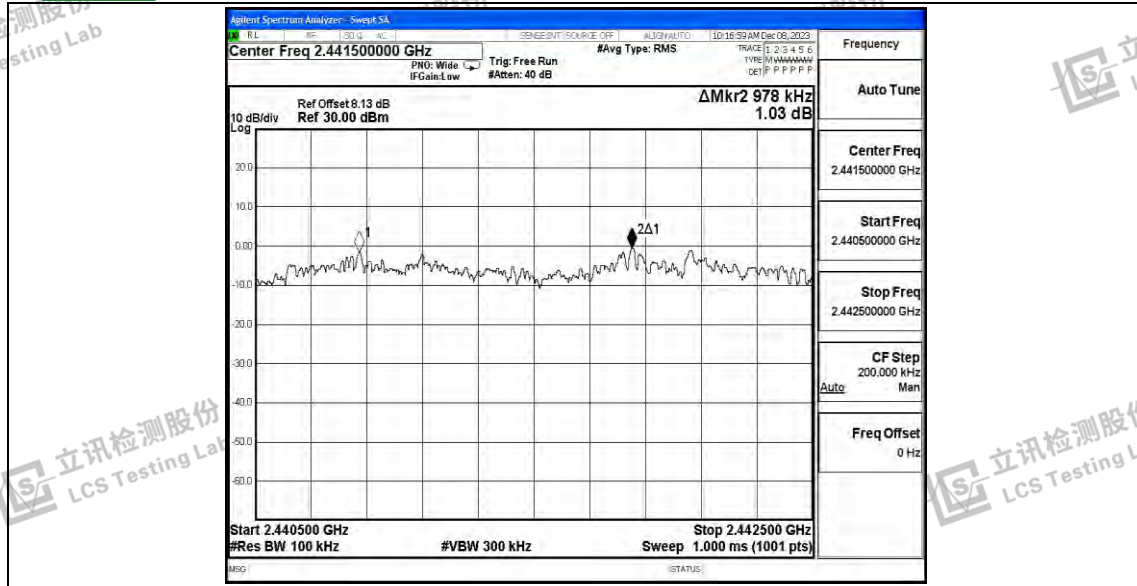
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	BT Ant	Hop	1.136	≥ 0.694	PASS
2DH5	BT Ant	Hop	0.976	≥ 0.884	PASS
3DH5	BT Ant	Hop	0.978	≥ 0.882	PASS





Test Graphs







A.4 Time of occupancy

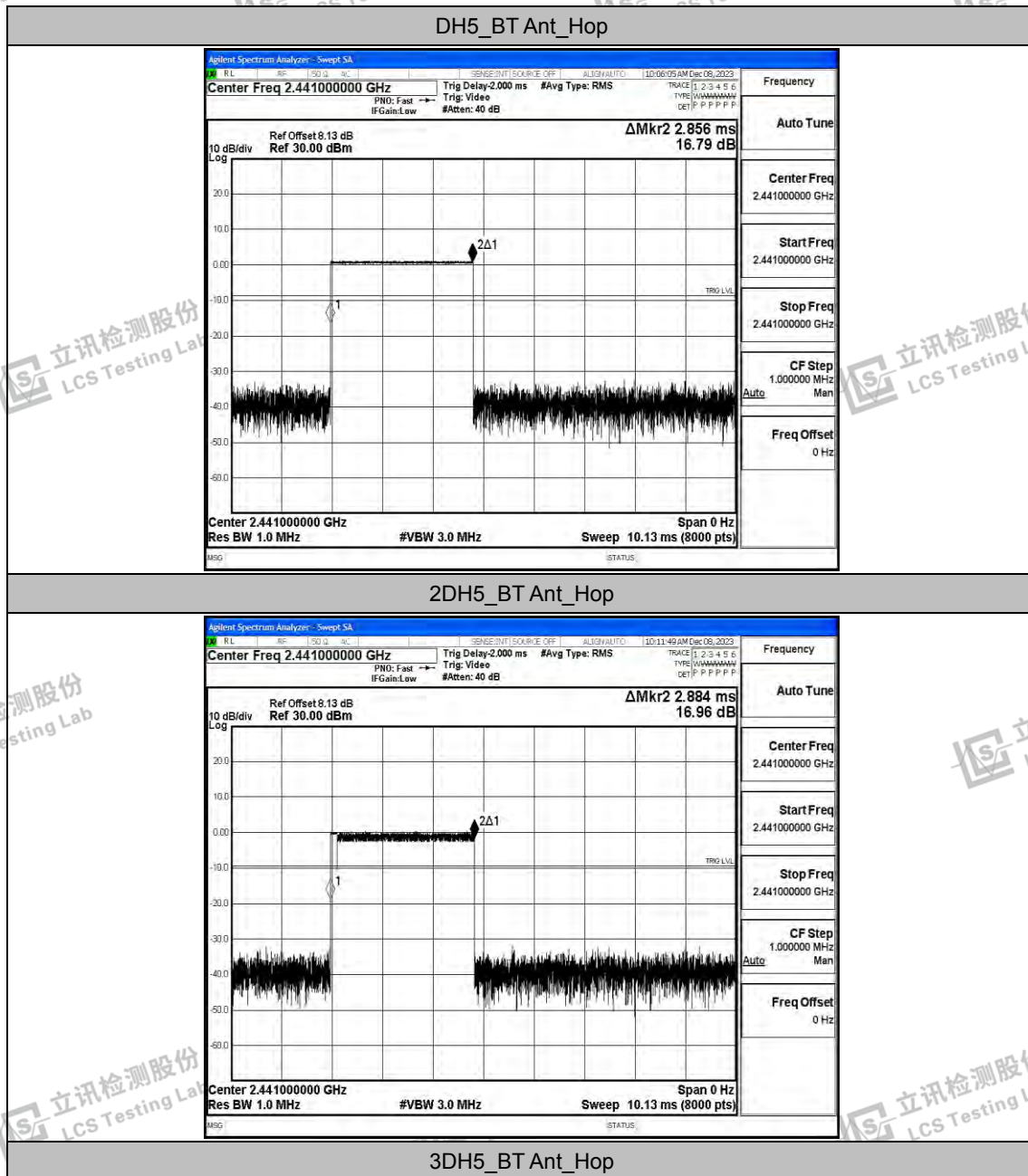
Test Result

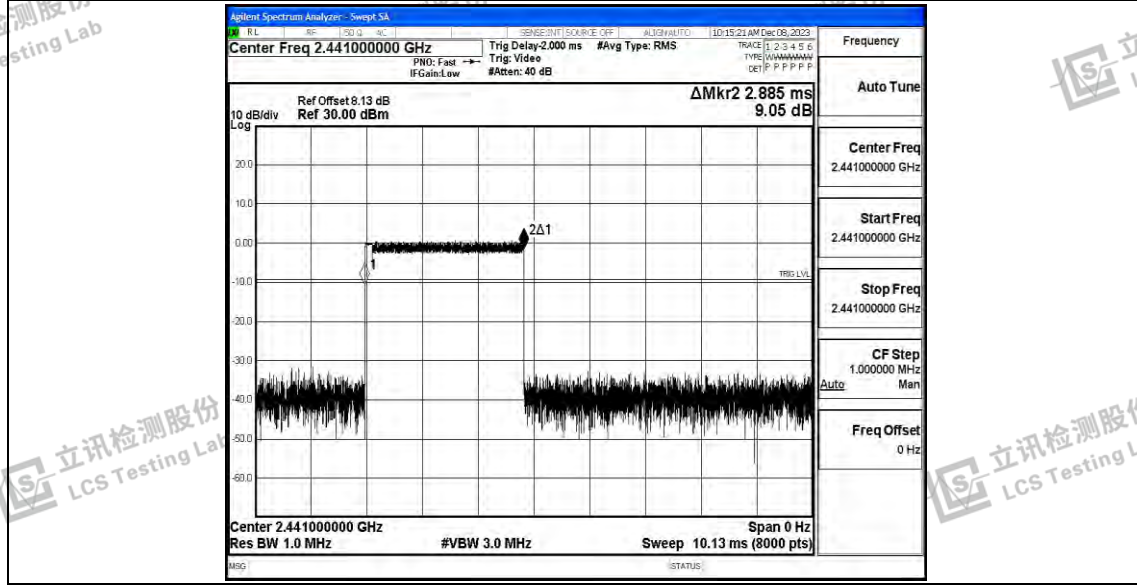
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	BT Ant	Hop	2.856	106.67	0.305	≤0.4	PASS
2DH5	BT Ant	Hop	2.884	106.67	0.308	≤0.4	PASS
3DH5	BT Ant	Hop	2.885	106.67	0.308	≤0.4	PASS





Test Graphs







A.5 Number of hopping channels

Test Result

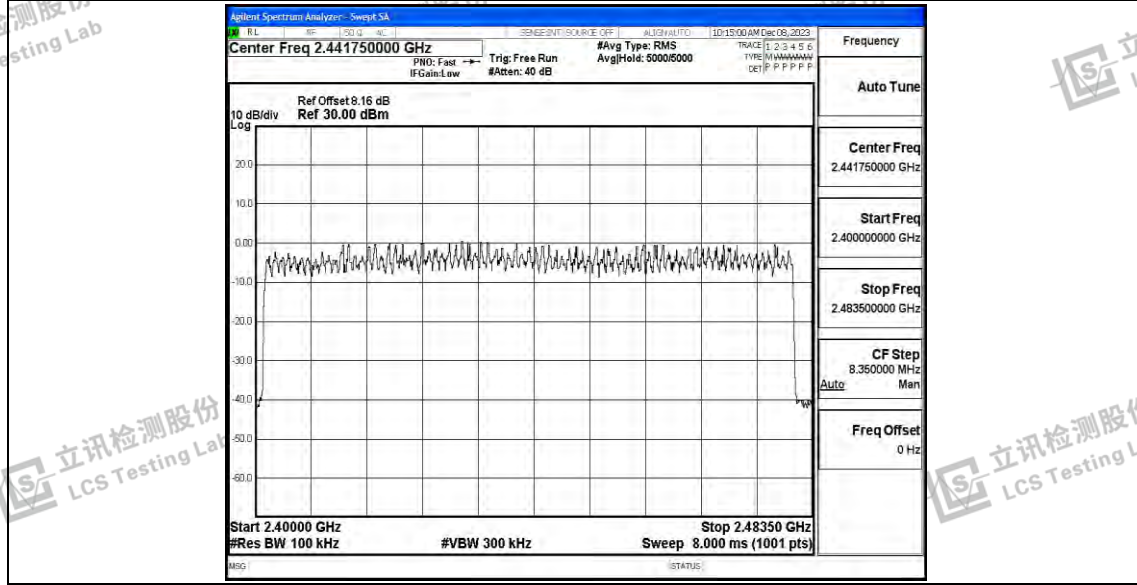
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	BT Ant	Hop	79	≥15	PASS
2DH5	BT Ant	Hop	79	≥15	PASS
3DH5	BT Ant	Hop	79	≥15	PASS





Test Graphs







A.6 Band edge measurements

Test Result

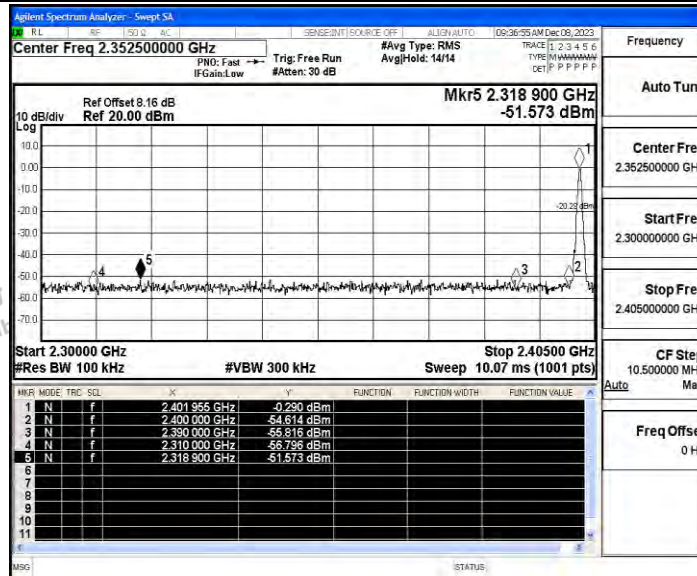
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	BT Ant	Low	2402	-0.29	-51.57	≤ -20.29	PASS
		High	2480	-0.07	-50.61	≤ -20.07	PASS
		Low	Hop_2402	-0.94	-49.89	≤ -20.94	PASS
		High	Hop_2480	0.66	-48.03	≤ -19.34	PASS
2DH5	BT Ant	Low	2402	-6.02	-50.79	≤ -26.02	PASS
		High	2480	-5.65	-50.75	≤ -25.65	PASS
		Low	Hop_2402	-5.16	-50.18	≤ -25.16	PASS
		High	Hop_2480	-0.63	-48.75	≤ -20.63	PASS
3DH5	BT Ant	Low	2402	-4.83	-51.76	≤ -24.83	PASS
		High	2480	-3.44	-50.63	≤ -23.44	PASS
		Low	Hop_2402	-4.99	-49.87	≤ -24.99	PASS
		High	Hop_2480	-0.61	-49.79	≤ -20.61	PASS



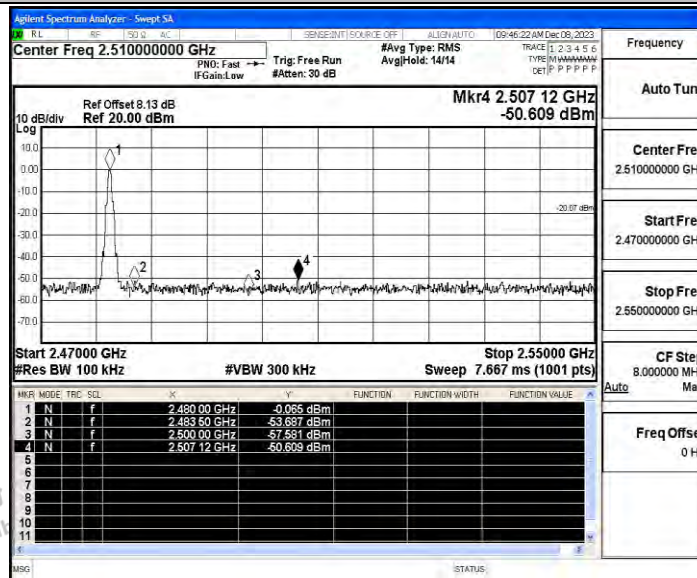


Test Graphs

DH5_BT Ant_Low_2402



DH5_BT Ant_High_2480



DH5_BT Ant_Low_Hop_2402

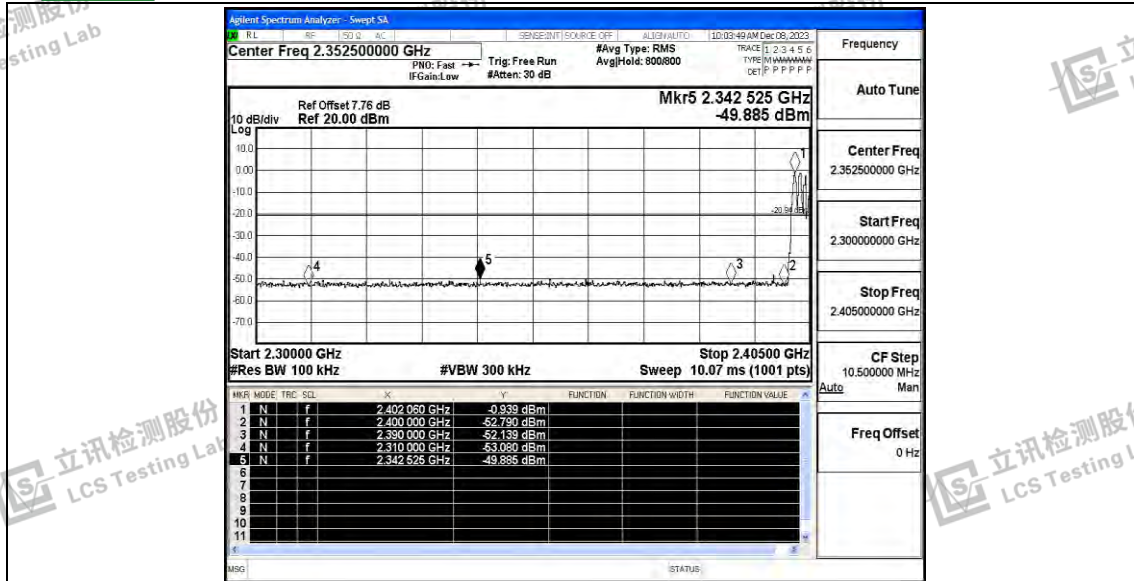


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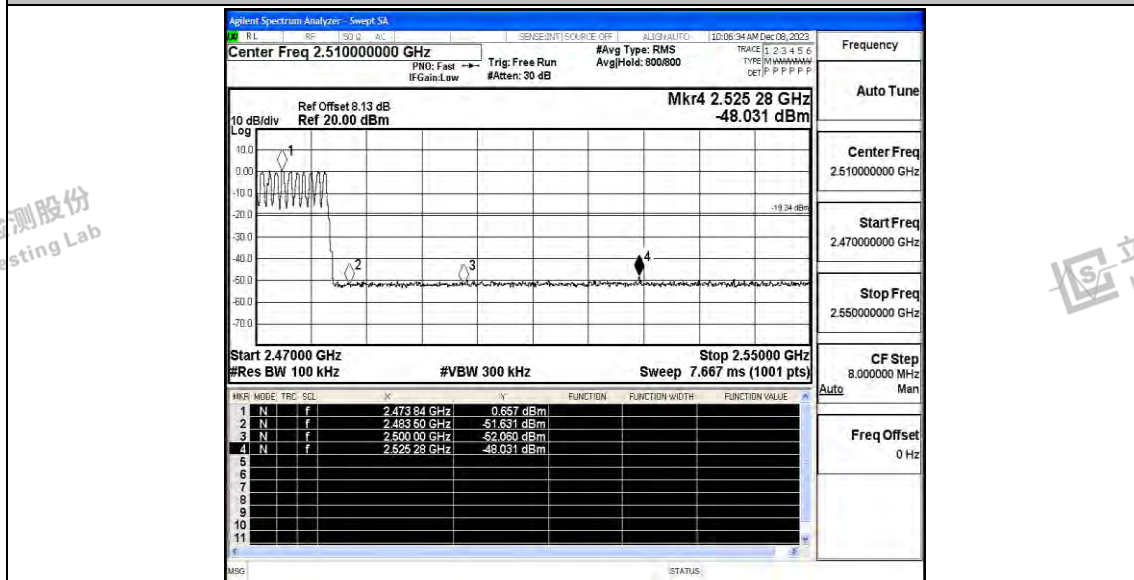
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DH5_BT Ant_High_Hop_2480



2DH5_BT Ant_Low_2402

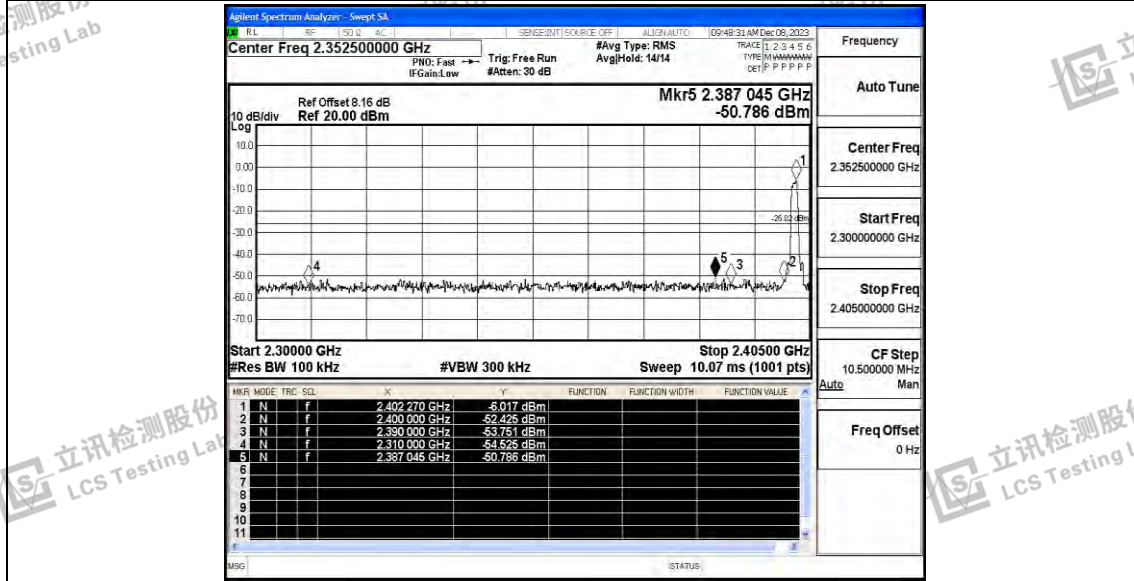


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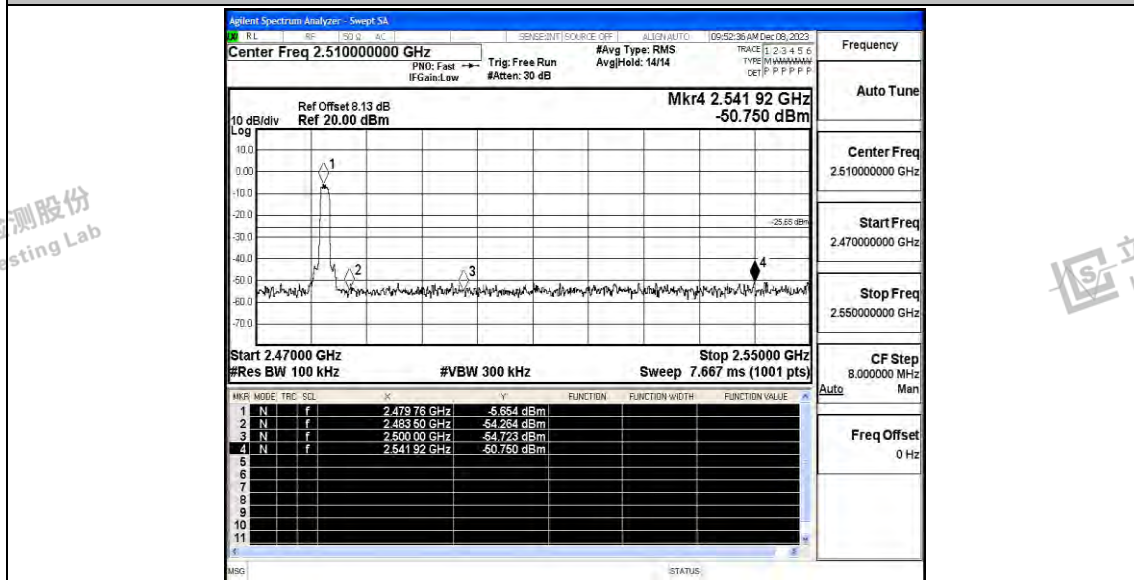
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2DH5_BT Ant_High_2480



2DH5_BT Ant_Low_Hop_2402

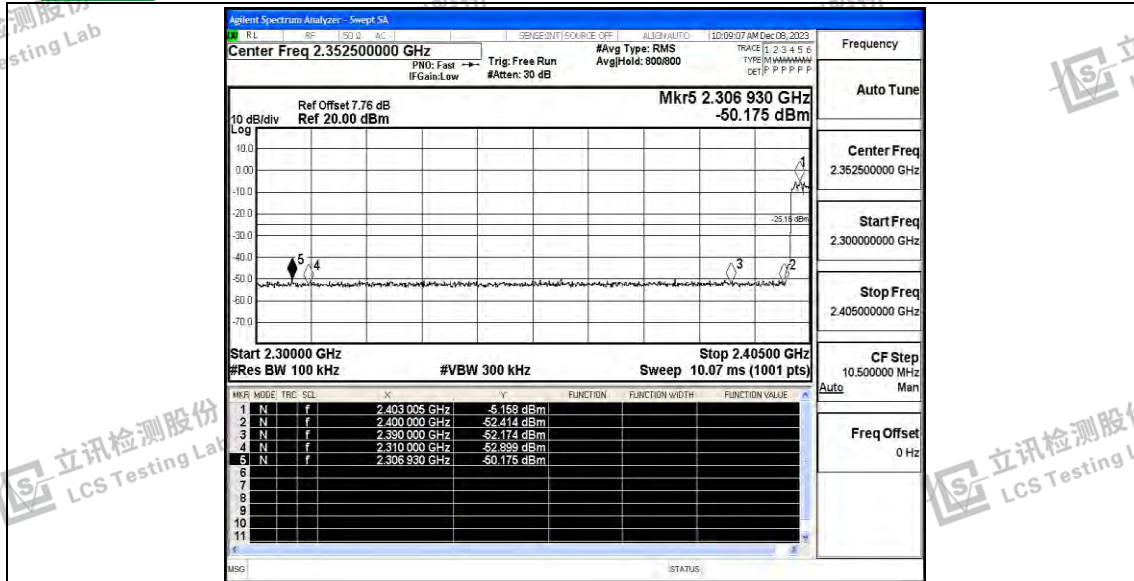


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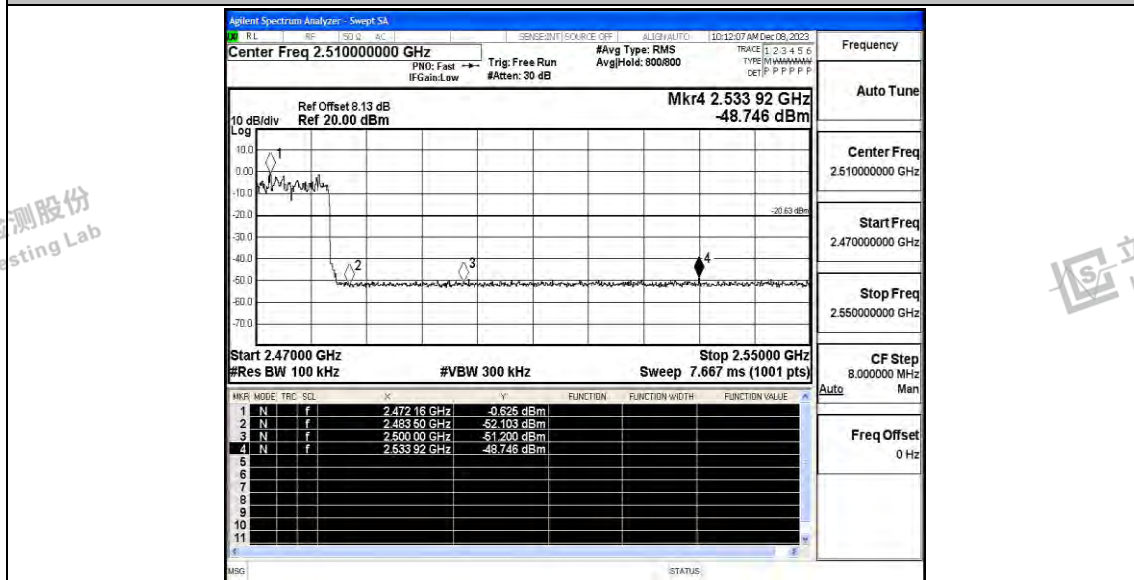
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2DH5_BT Ant_High_Hop_2480



3DH5_BT Ant_Low_2402

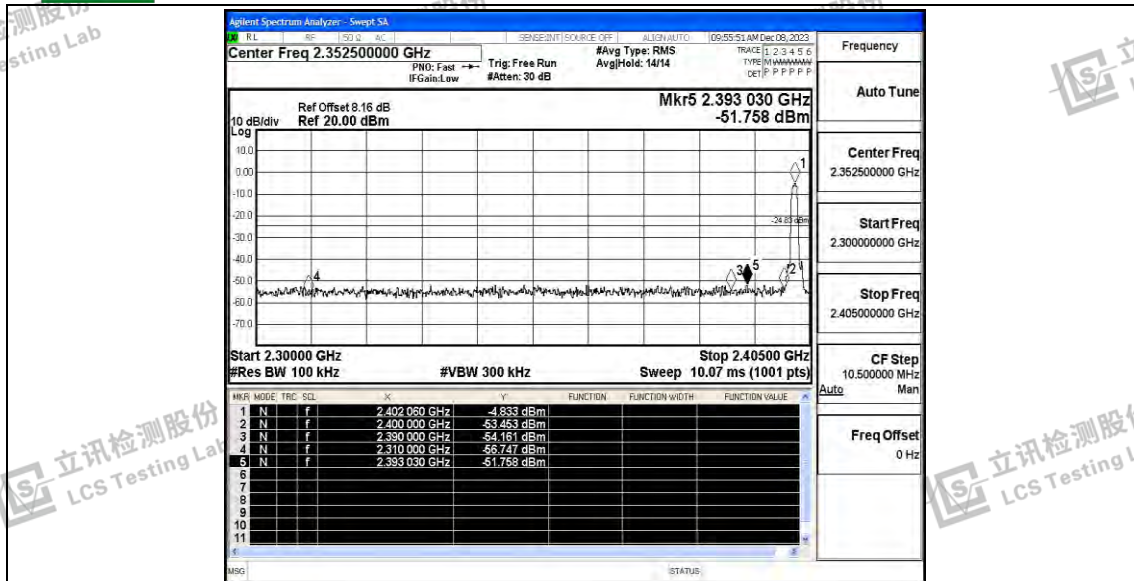


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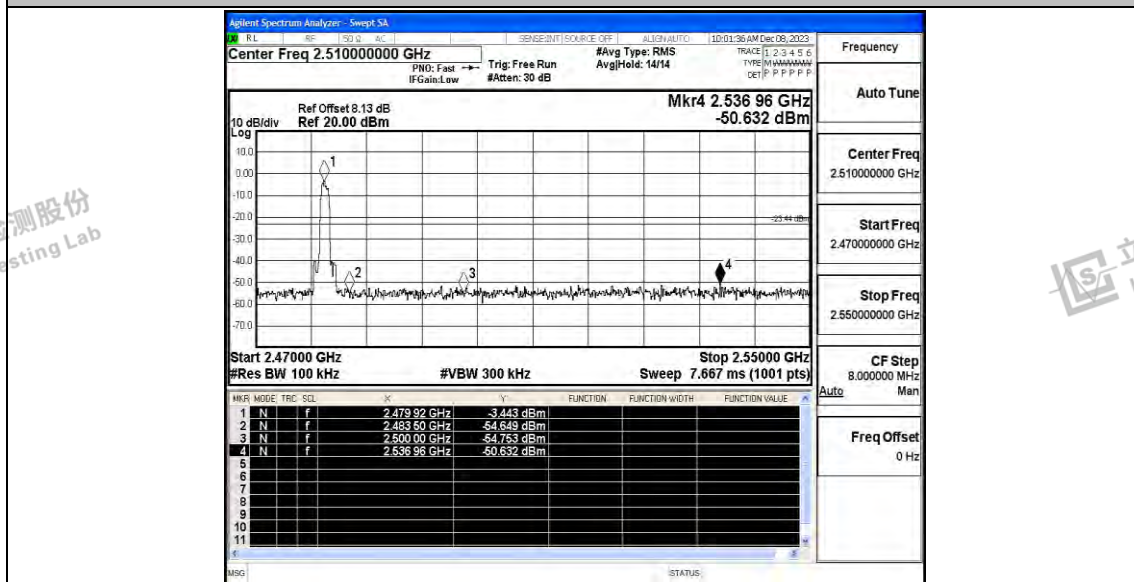
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3DH5_BT Ant_High_2480



3DH5_BT Ant_Low_Hop_2402

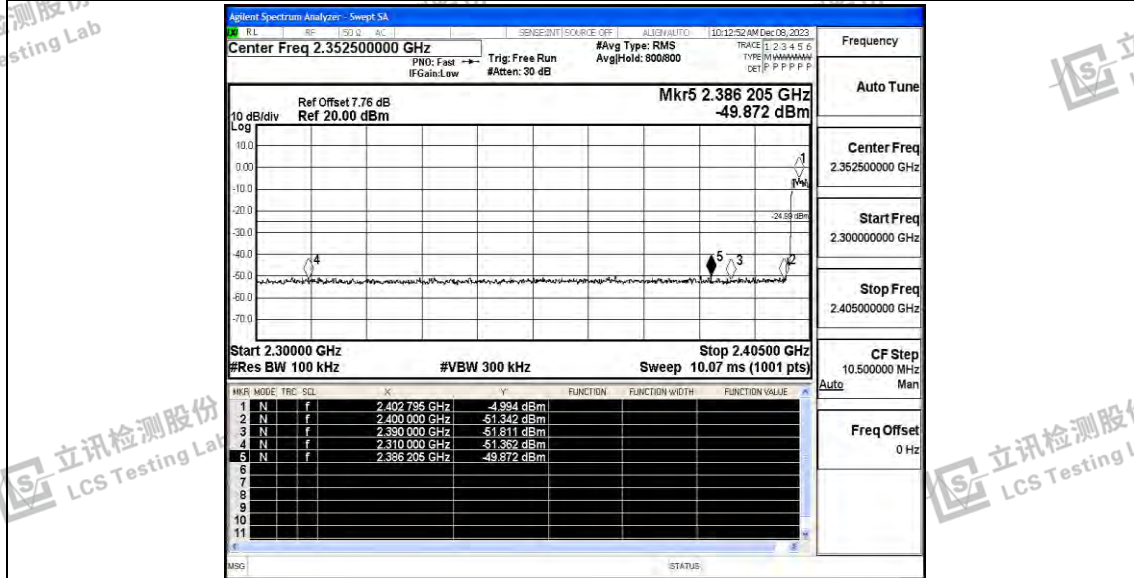


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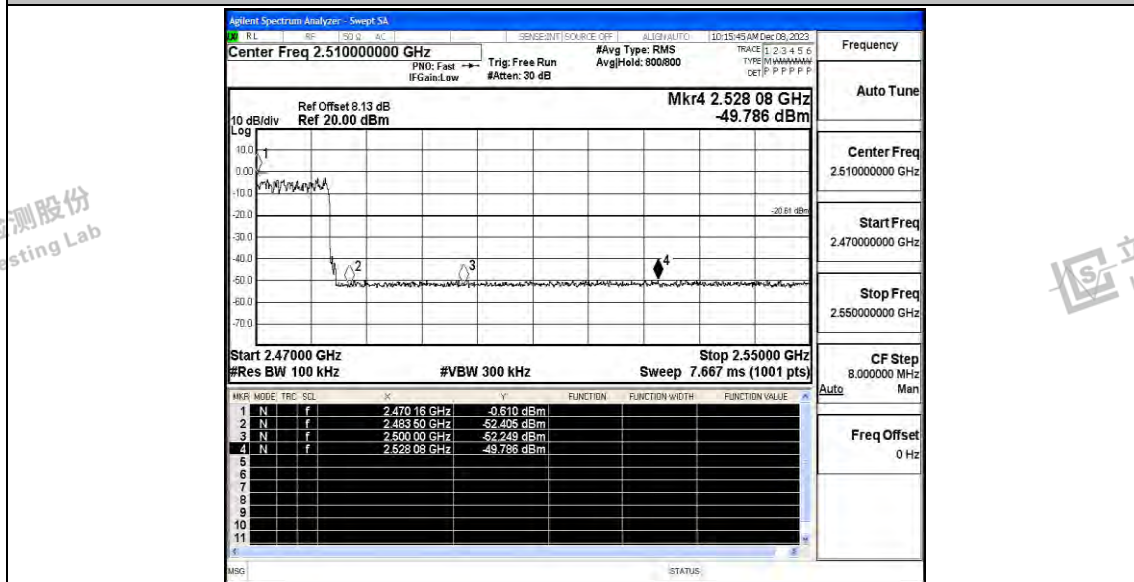
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3DH5_BT Ant_High_Hop_2480



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A.7 Conducted Spurious Emission

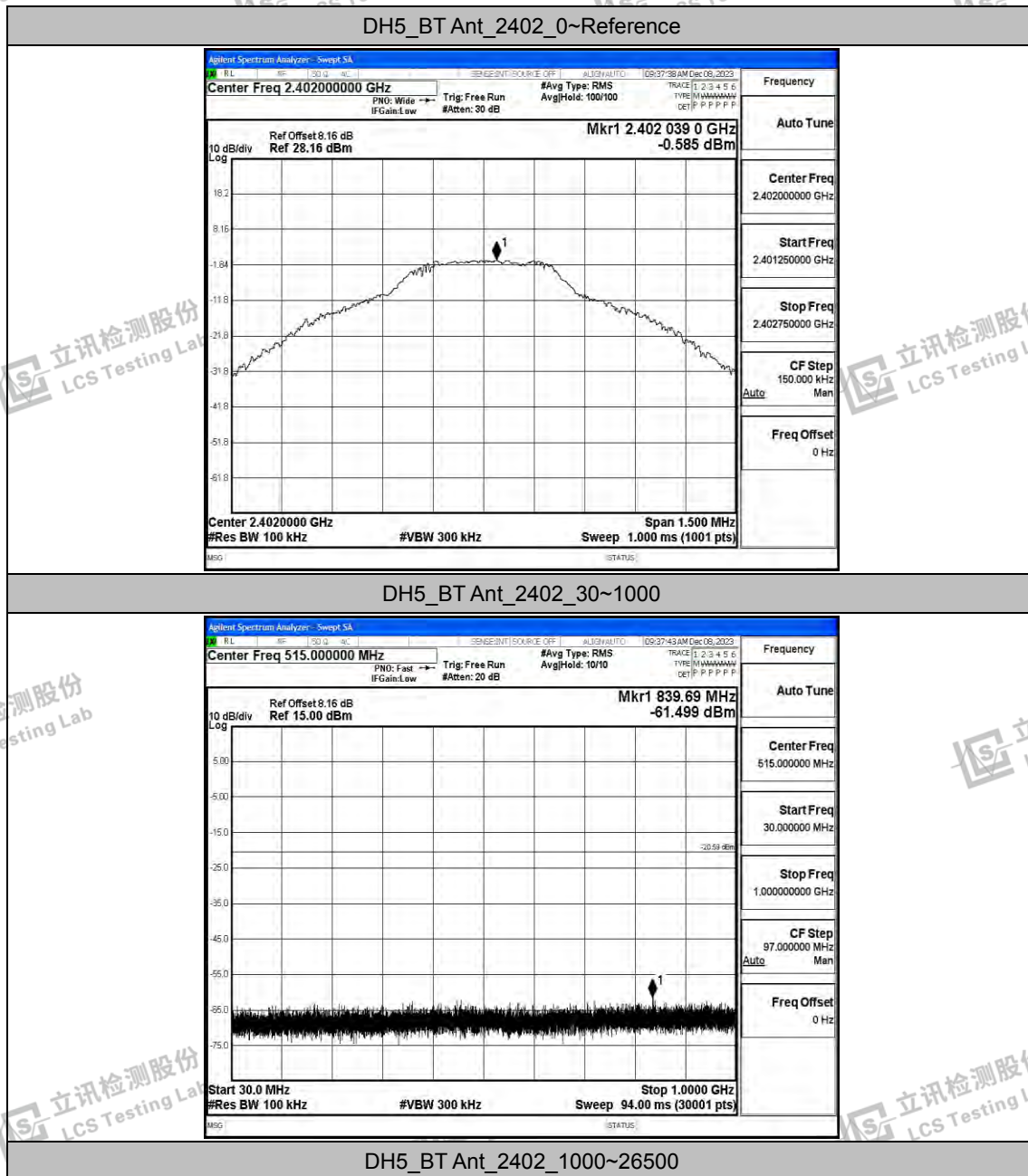
Test Result

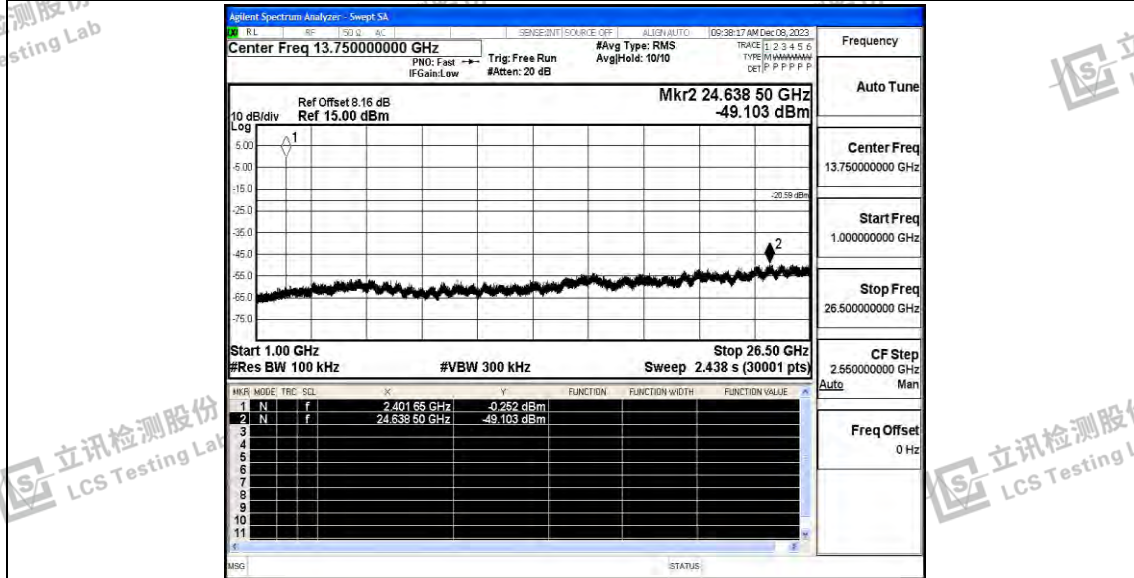
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	BT Ant	2402	Reference	-0.59	-0.59	---	PASS
			30~1000	-0.59	-61.5	≤-20.59	PASS
			1000~26500	-0.59	-49.1	≤-20.59	PASS
		2441	Reference	0.06	0.06	---	PASS
			30~1000	0.06	-59.85	≤-19.94	PASS
			1000~26500	0.06	-48.96	≤-19.94	PASS
		2480	Reference	0.03	0.03	---	PASS
			30~1000	0.03	-60.49	≤-19.97	PASS
			1000~26500	0.03	-49.22	≤-19.97	PASS
2DH5	BT Ant	2402	Reference	-1.20	-1.20	---	PASS
			30~1000	-1.20	-61.42	≤-21.2	PASS
			1000~26500	-1.20	-49.69	≤-21.2	PASS
		2441	Reference	-0.21	-0.21	---	PASS
			30~1000	-0.21	-60.93	≤-20.21	PASS
			1000~26500	-0.21	-48.23	≤-20.21	PASS
		2480	Reference	-2.00	-2.00	---	PASS
			30~1000	-2.00	-61.28	≤-22	PASS
			1000~26500	-2.00	-49.39	≤-22	PASS
3DH5	BT Ant	2402	Reference	-1.90	-1.90	---	PASS
			30~1000	-1.90	-61.79	≤-21.9	PASS
			1000~26500	-1.90	-48.6	≤-21.9	PASS
		2441	Reference	-0.26	-0.26	---	PASS
			30~1000	-0.26	-61.54	≤-20.26	PASS
			1000~26500	-0.26	-49.03	≤-20.26	PASS
		2480	Reference	-1.54	-1.54	---	PASS
			30~1000	-1.54	-61.97	≤-21.54	PASS
			1000~26500	-1.54	-49.12	≤-21.54	PASS



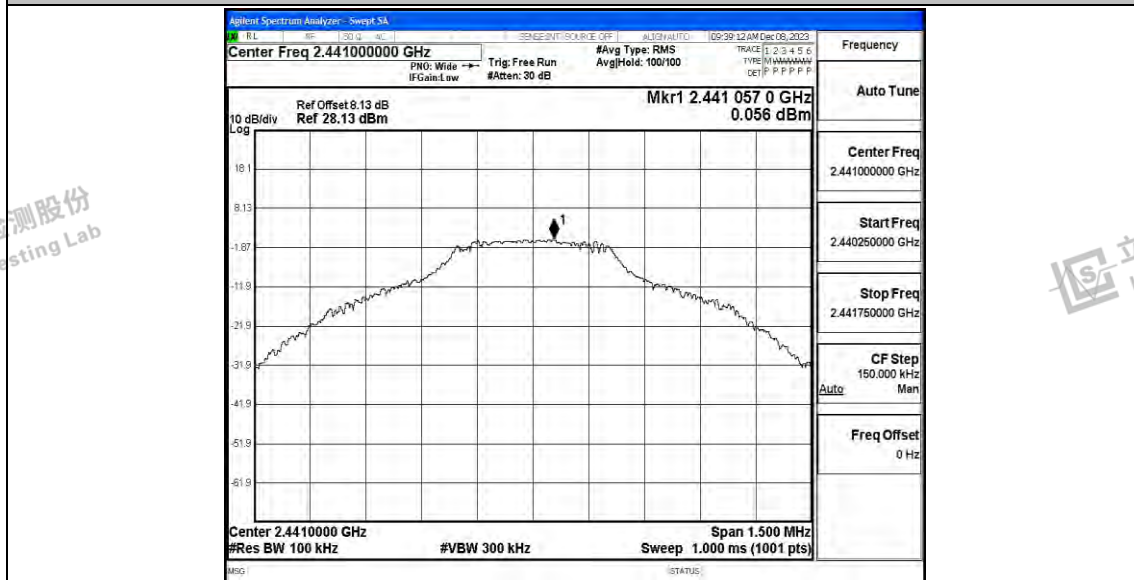


Test Graphs





DH5_BT Ant_2441_0~Reference



DH5_BT Ant_2441_30~1000

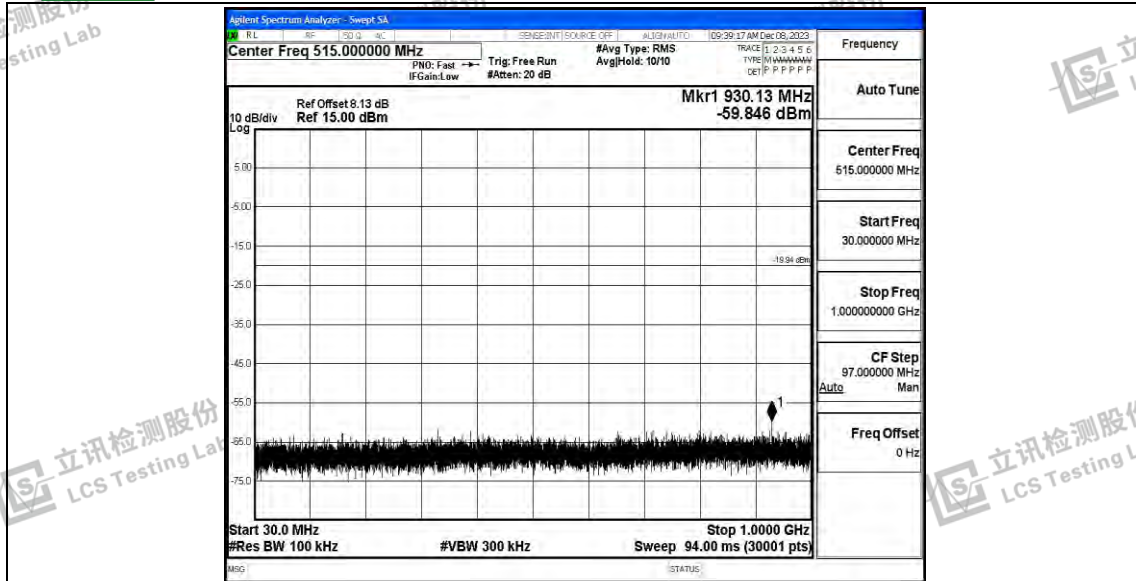


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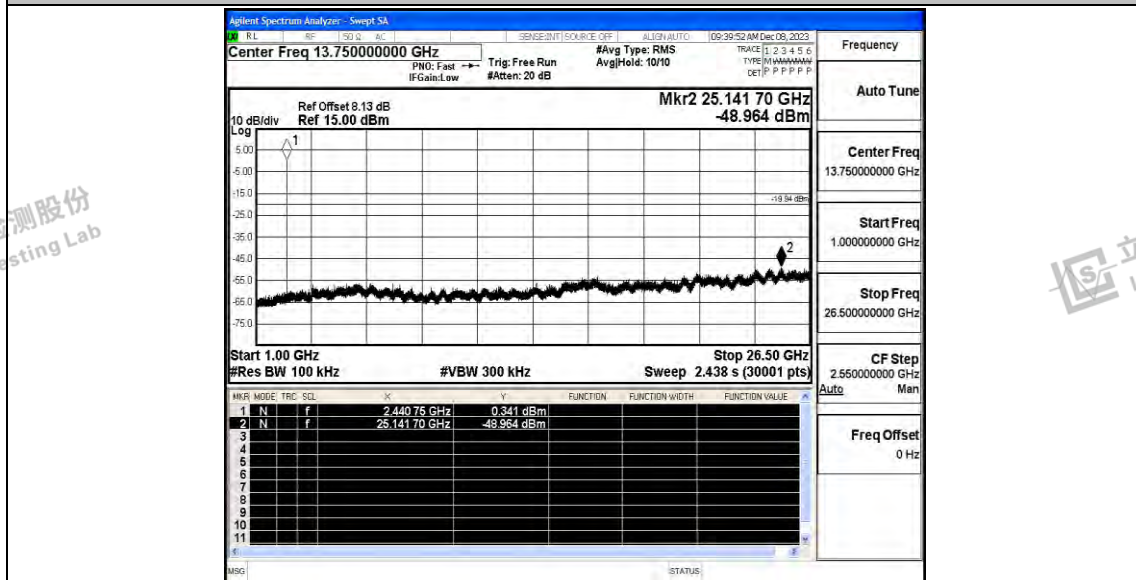
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DH5_BT Ant_2441_1000~26500



DH5_BT Ant_2480_0~Reference

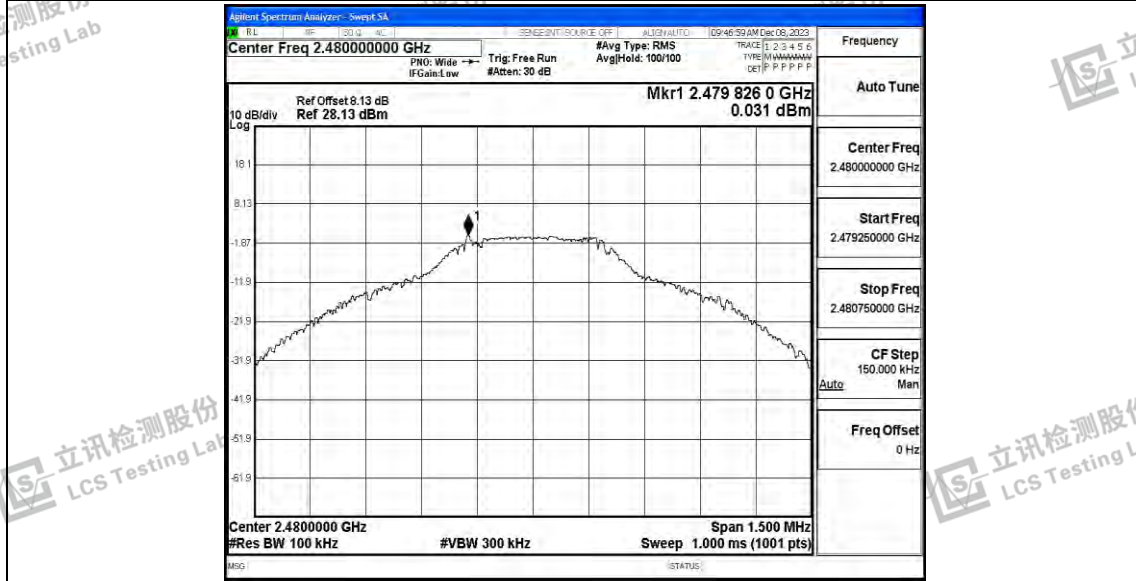


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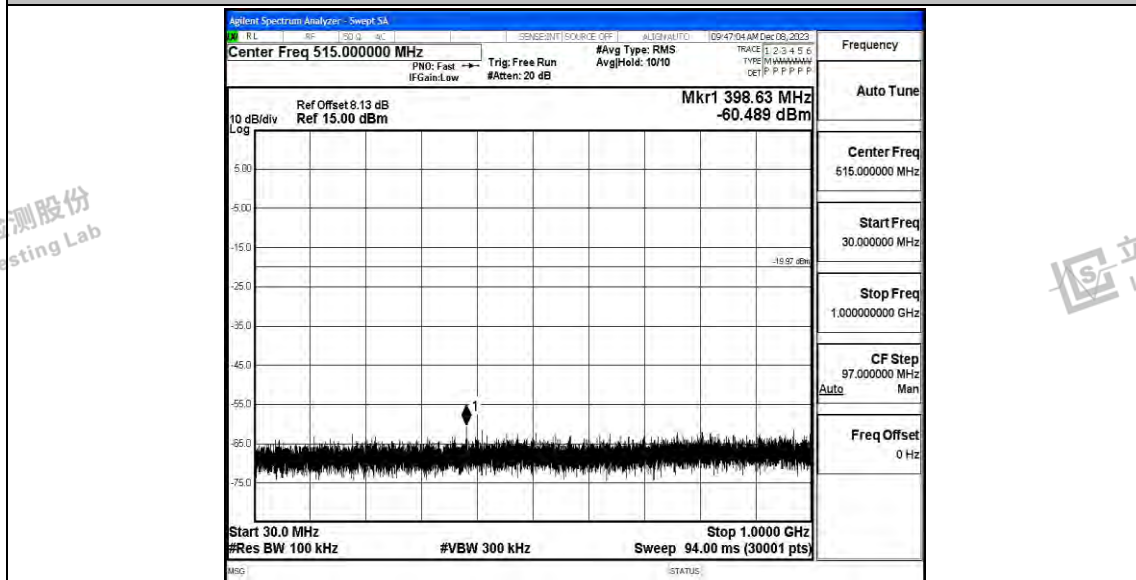
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DH5_BT Ant_2480_30~1000



DH5_BT Ant_2480_1000~26500

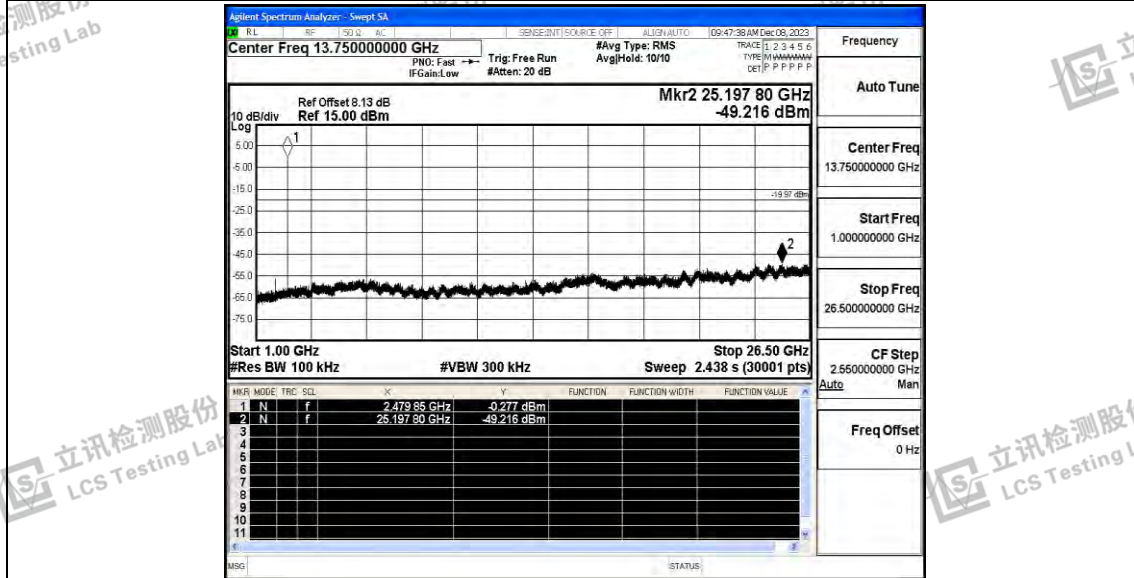


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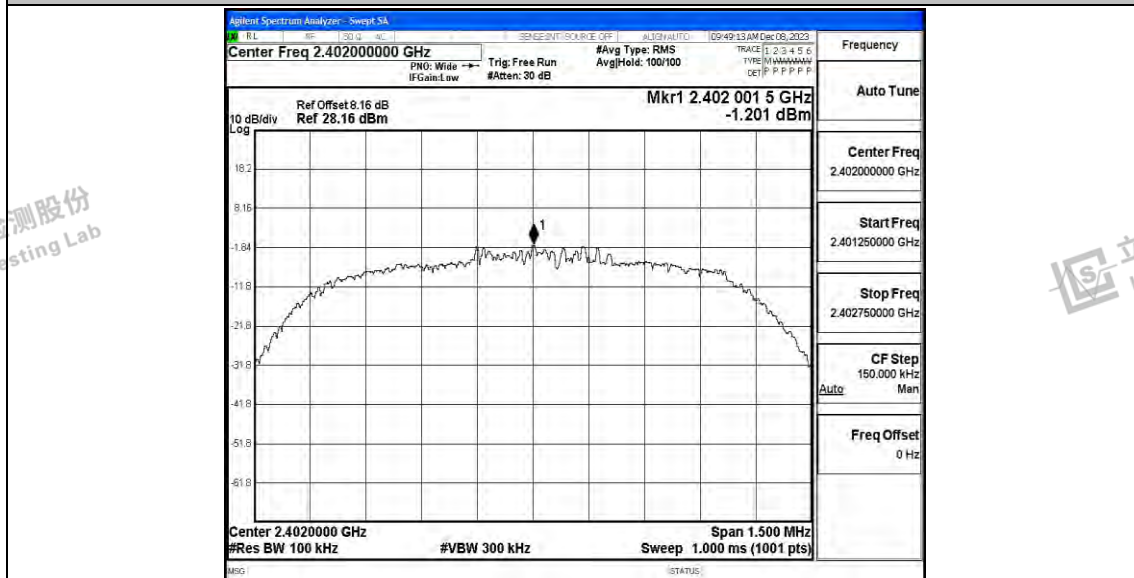
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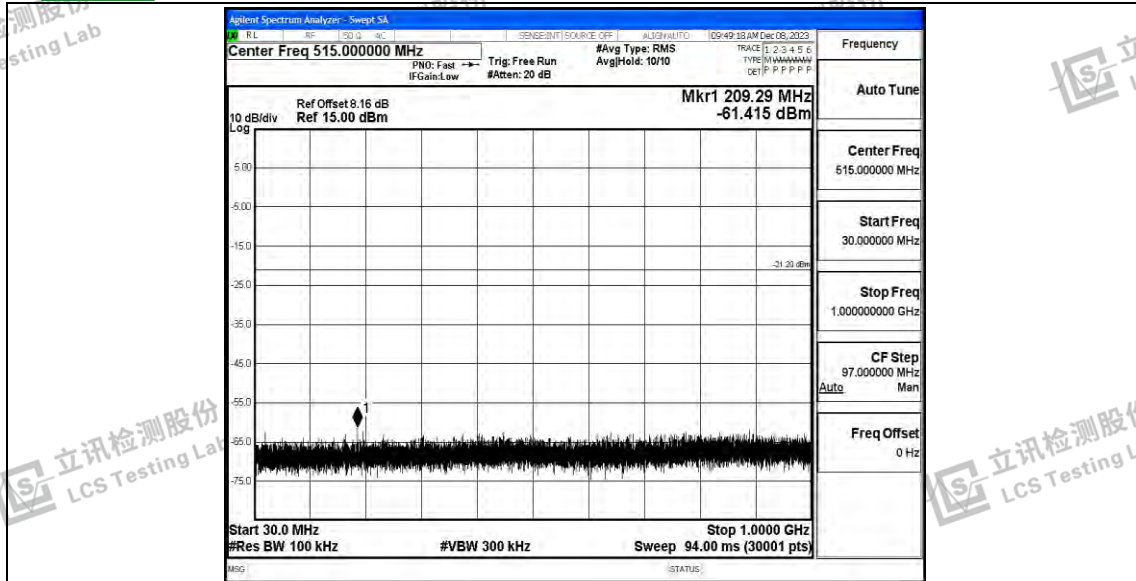


2DH5_BT Ant_2402_0~Reference

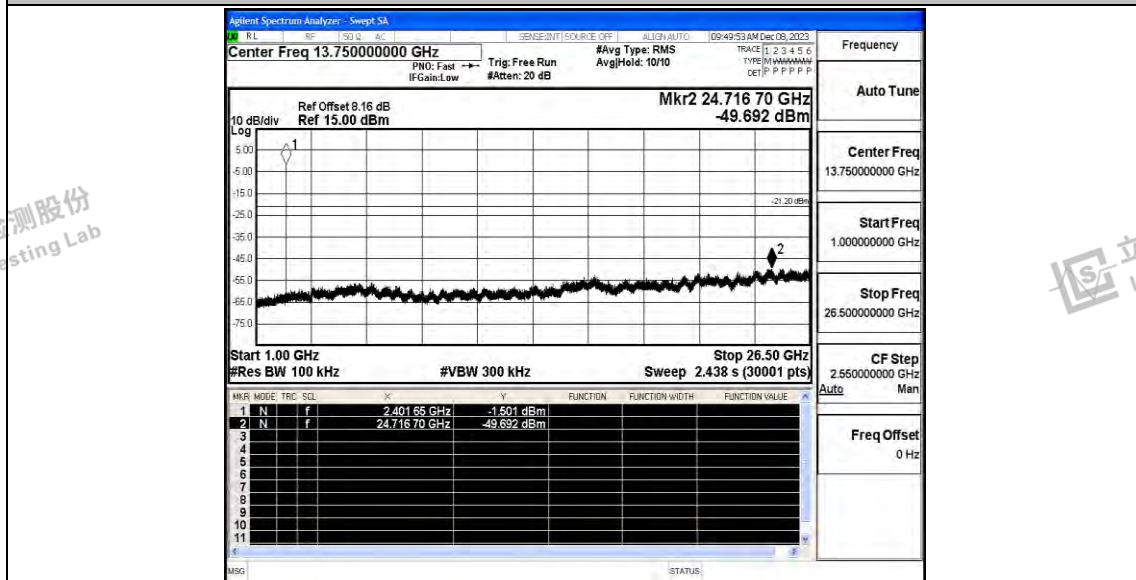


2DH5_BT Ant_2402_30~1000





2DH5_BT Ant_2402_1000~26500



2DH5_BT Ant_2441_0~Reference

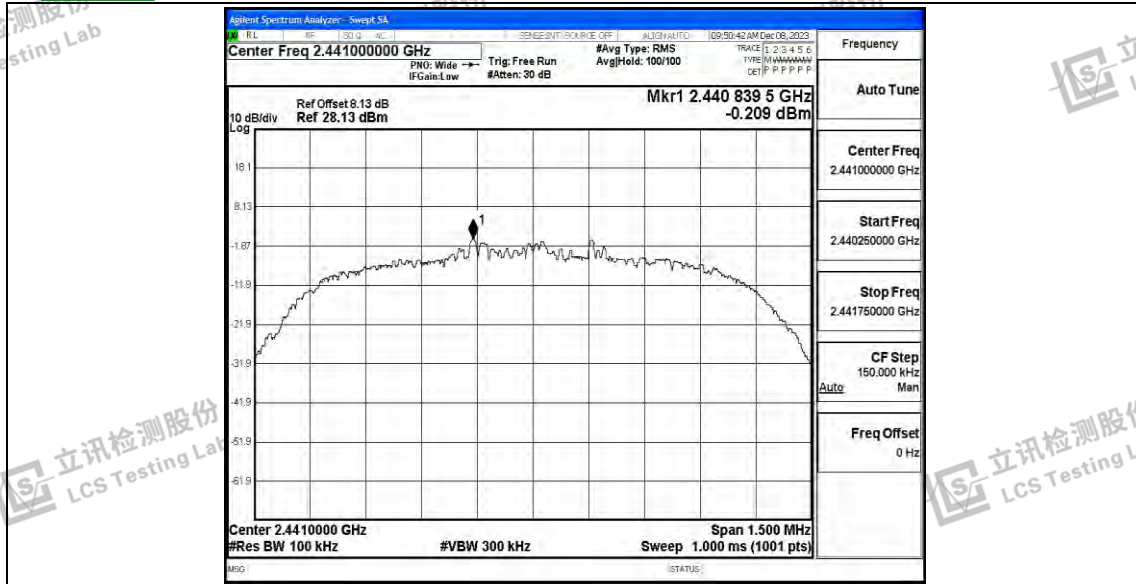


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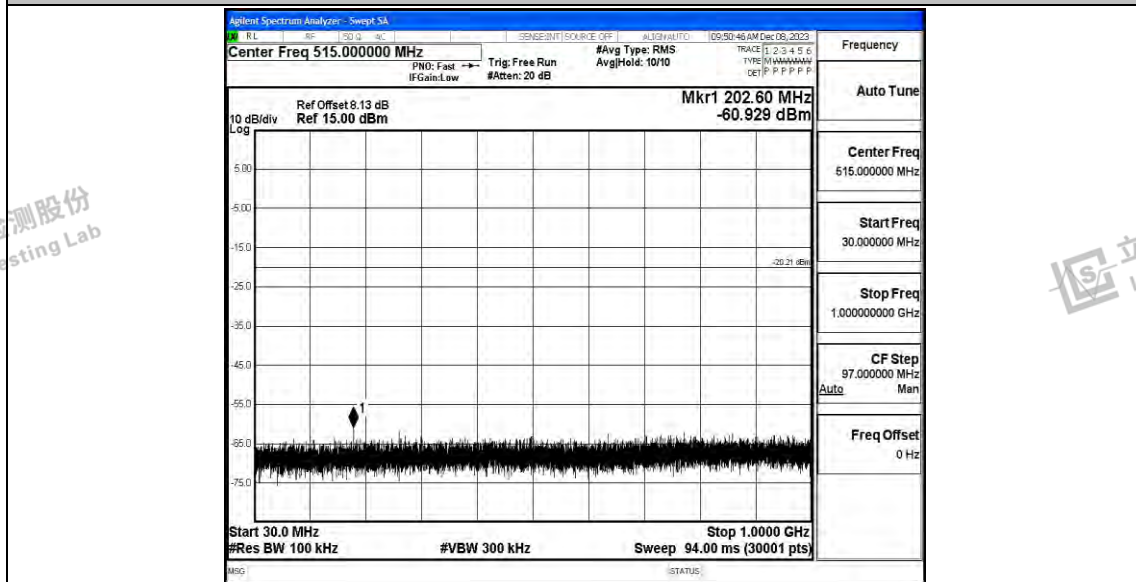
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2DH5_BT Ant_2441_30~1000



2DH5_BT Ant_2441_1000~26500

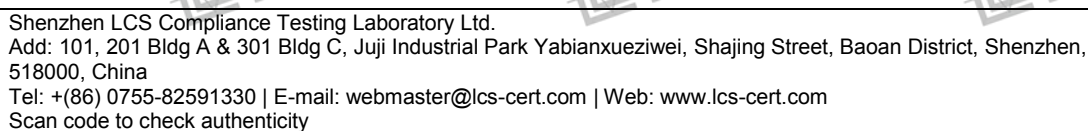
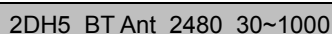
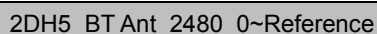


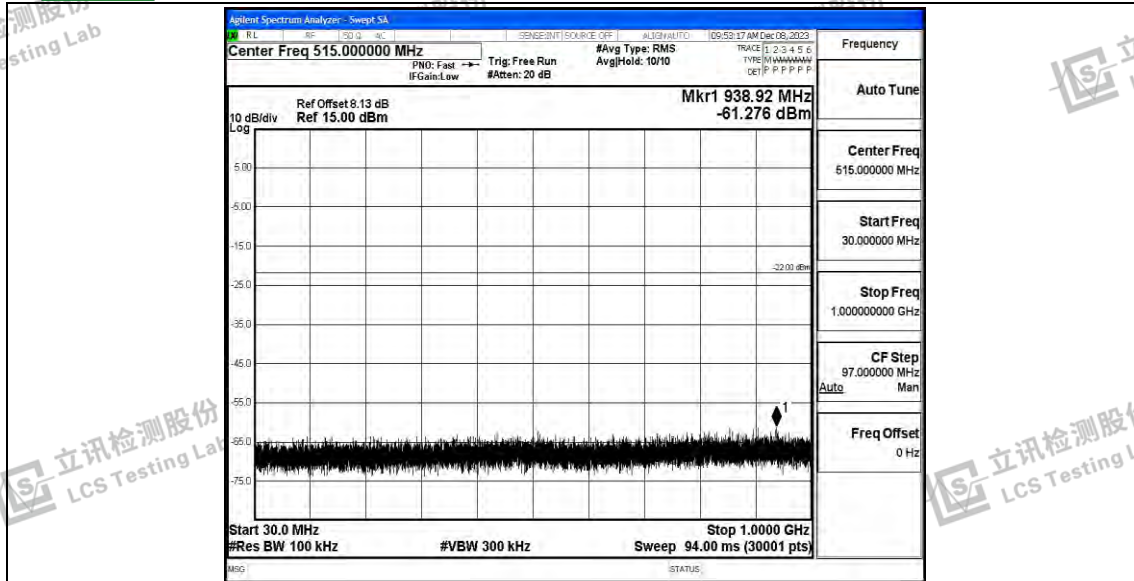
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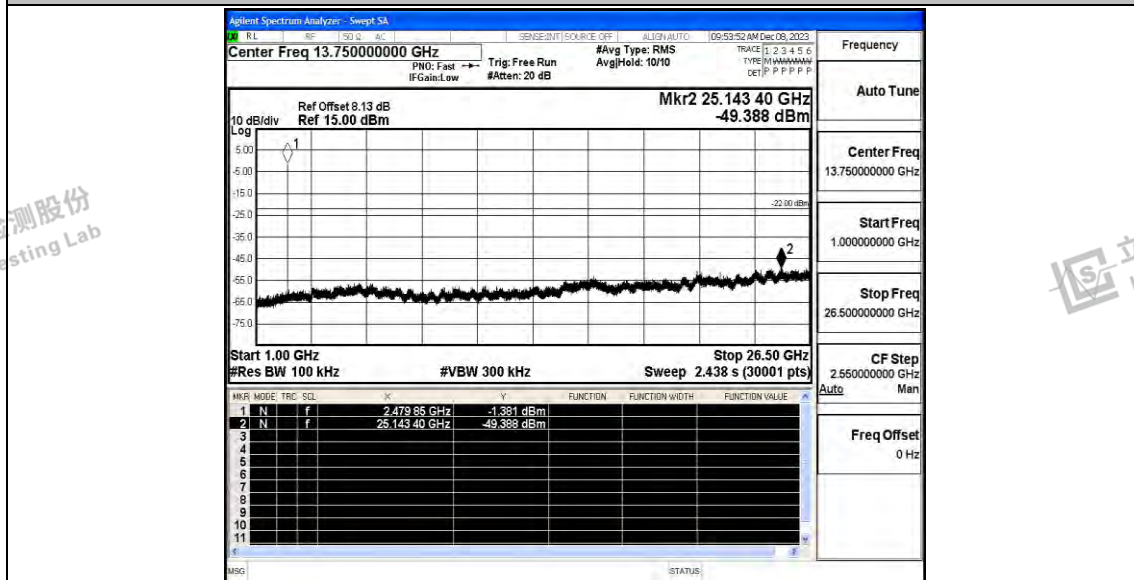
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2DH5_BT Ant_2480_1000~26500



3DH5_BT Ant_2402_0~Reference

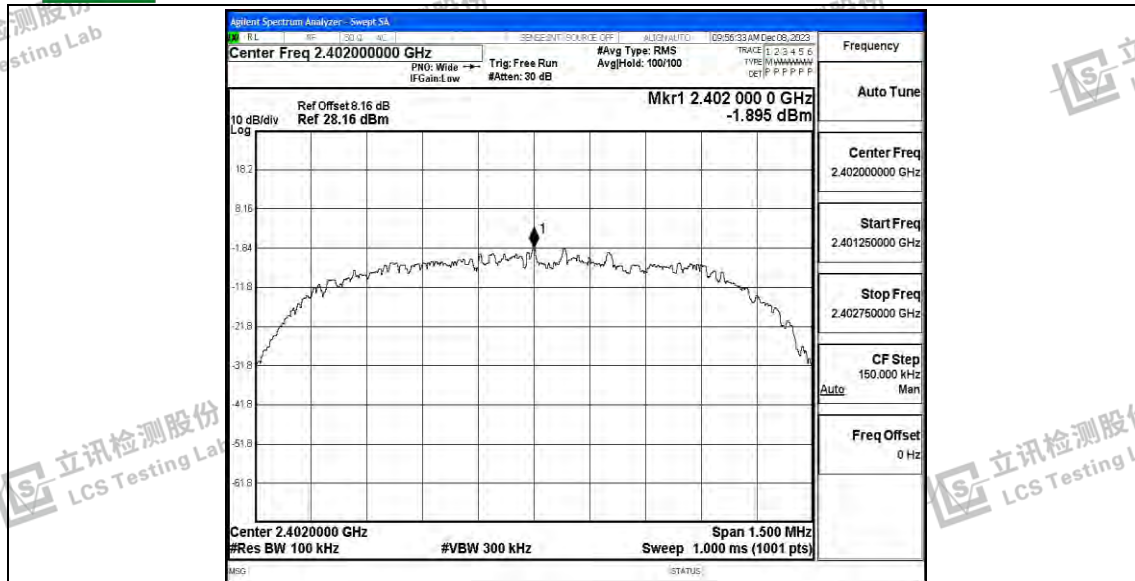


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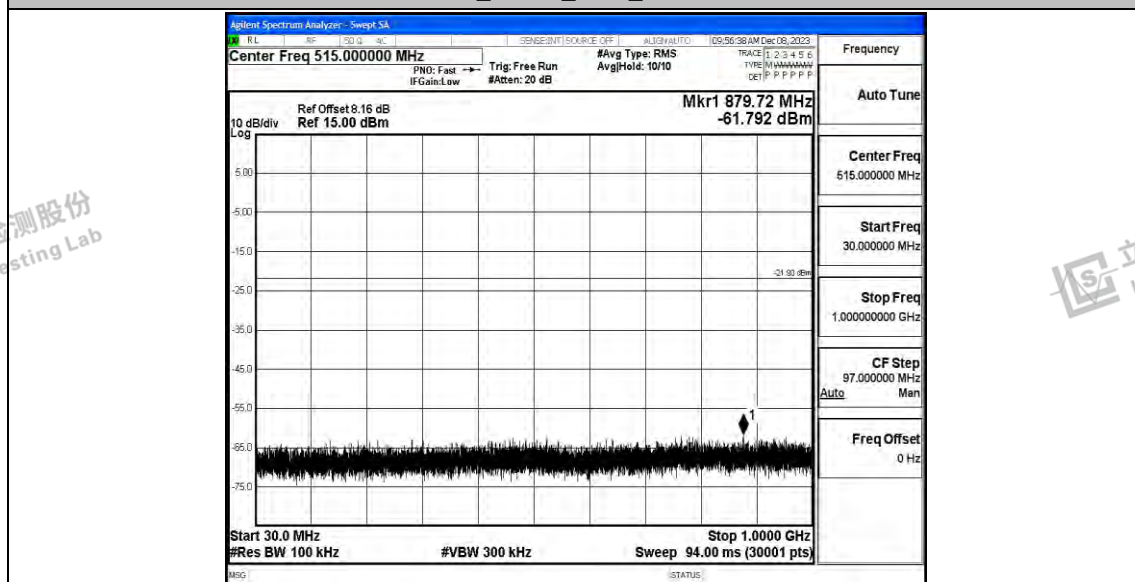
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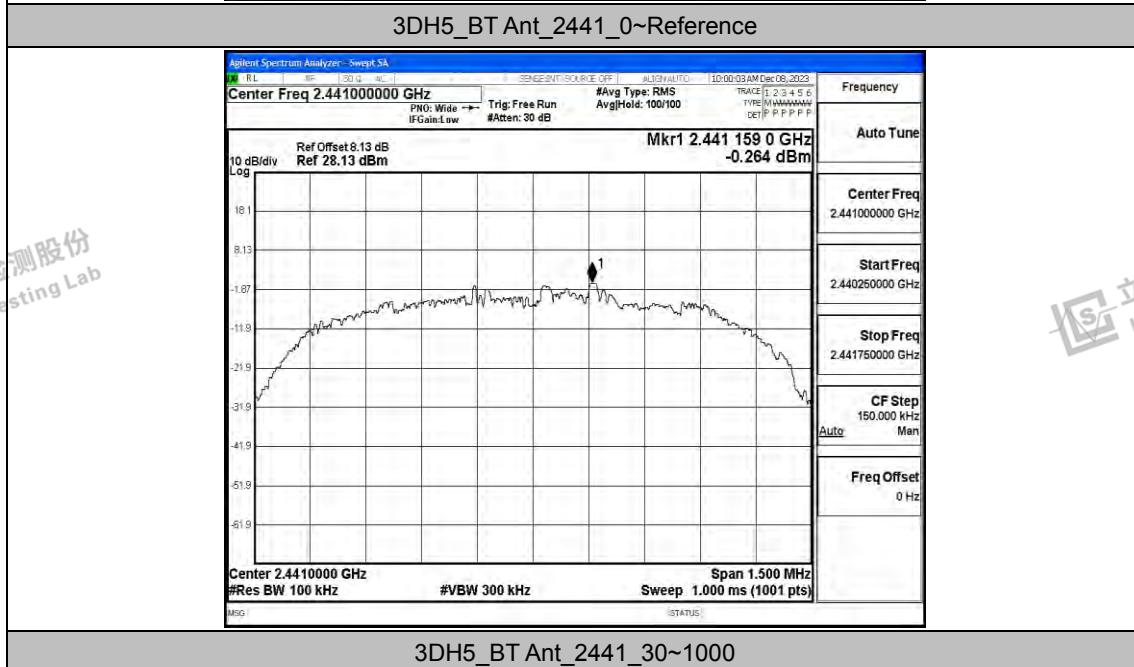
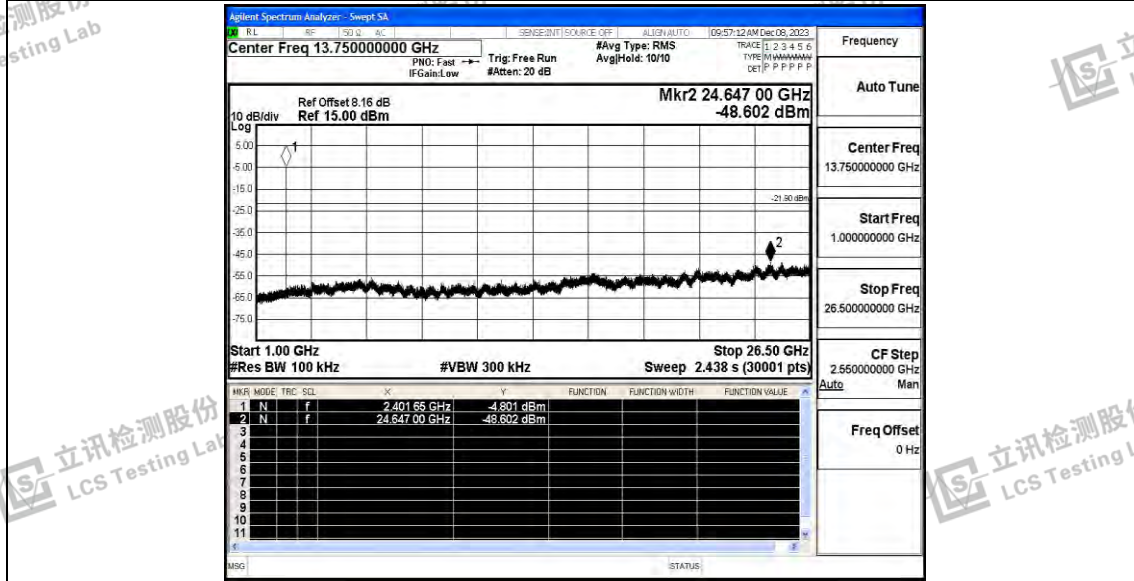


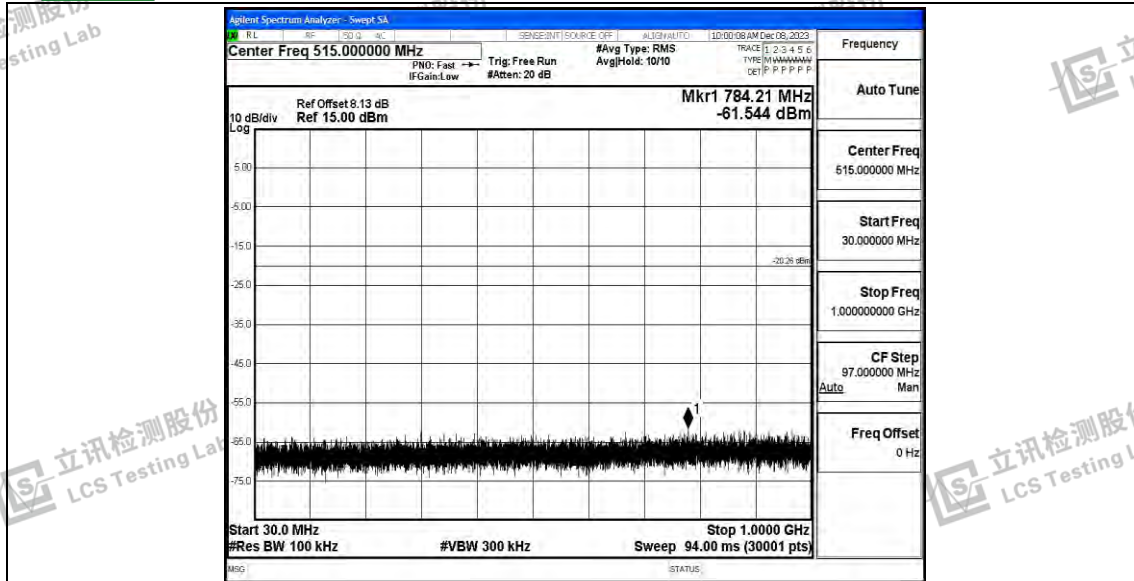
3DH5_BT Ant_2402_30~1000



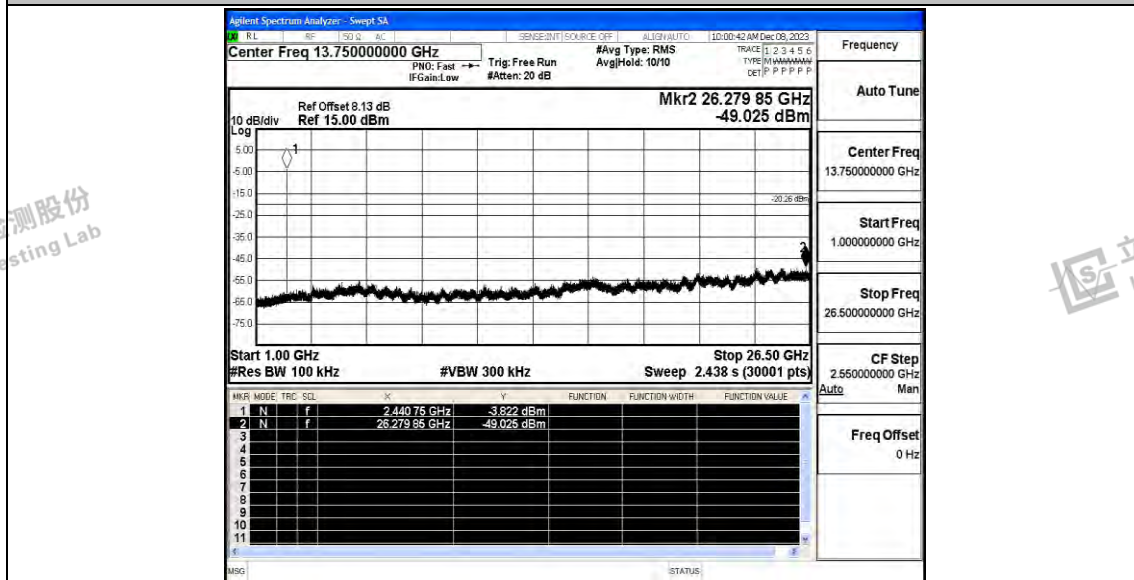
3DH5_BT Ant_2402_1000~26500







3DH5_BT Ant_2441_1000~26500



3DH5_BT Ant_2480_0~Reference

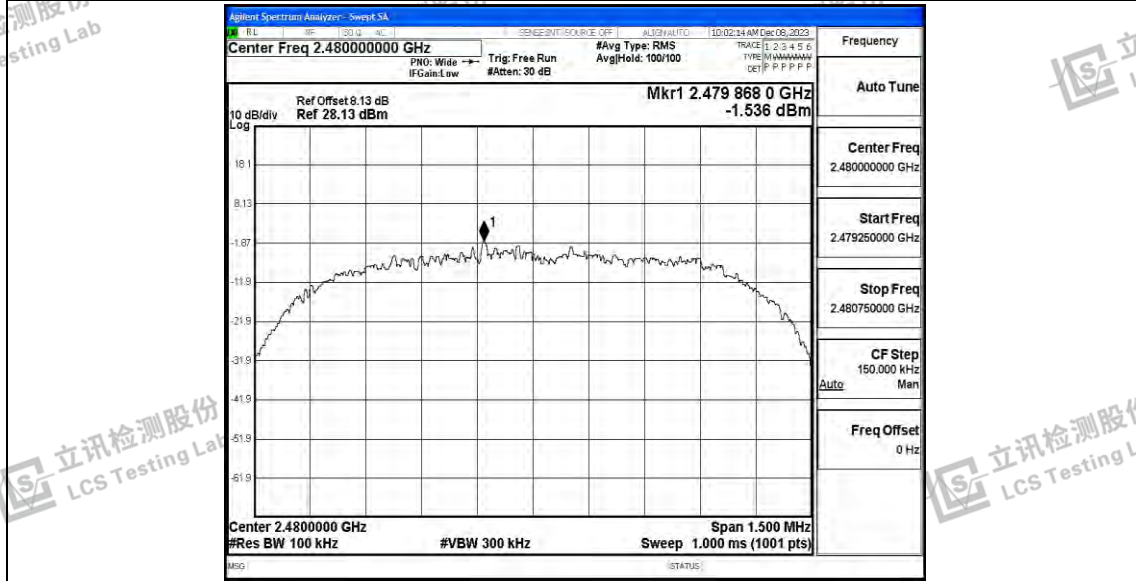


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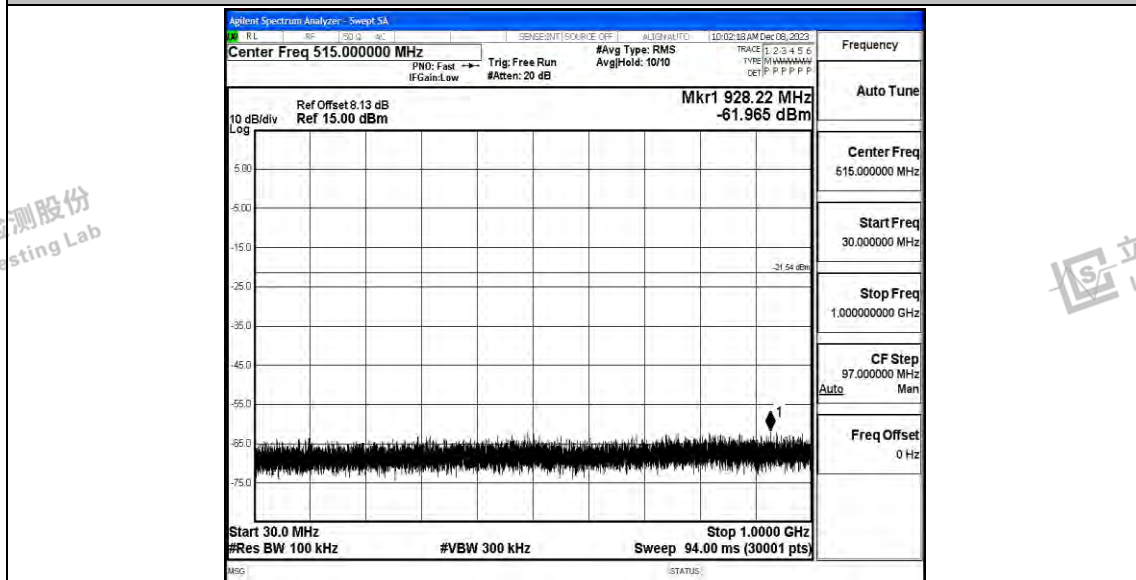
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3DH5_BT Ant_2480_30~1000



3DH5_BT Ant_2480_1000~26500

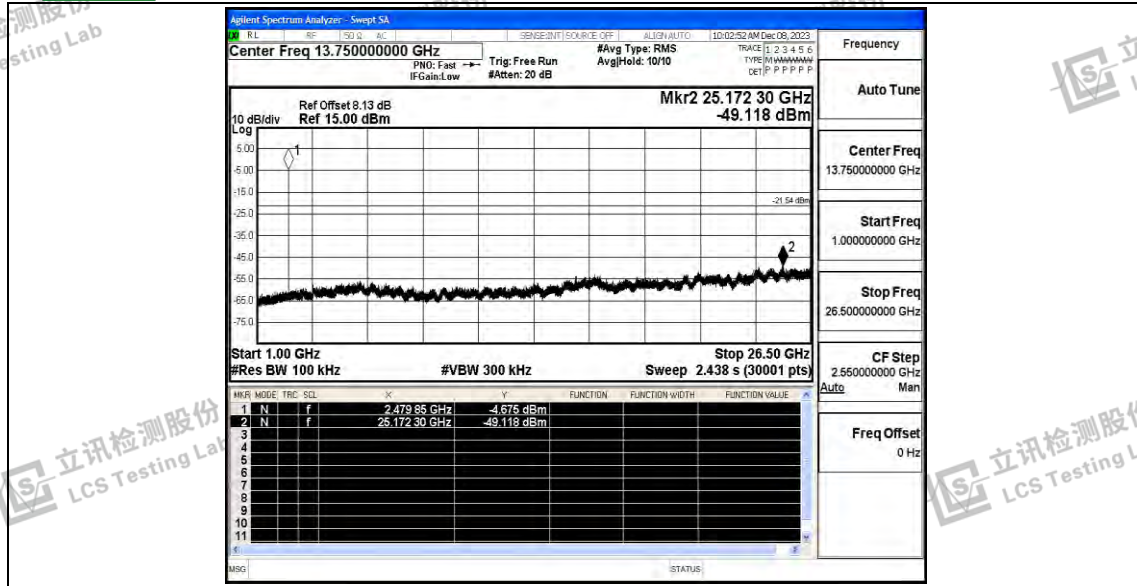


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A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	BT Ant	Low	2402	AV	2310.000	-49.11	≤-41.20	46.09	≤54	PASS
				AV	2387.465	-48.72	≤-41.20	46.48	≤54	PASS
				AV	2390.000	-48.9	≤-41.20	46.30	≤54	PASS
				Peak	2310.000	-44.1	≤-21.20	51.10	≤74	PASS
				Peak	2347.040	-39.32	≤-21.20	55.88	≤74	PASS
				Peak	2390.000	-43.85	≤-21.20	51.35	≤74	PASS
		High	2480	AV	2483.500	-48.49	≤-41.20	46.71	≤54	PASS
				AV	2498.480	-48.42	≤-41.20	46.78	≤54	PASS
				AV	2500.000	-48.73	≤-41.20	46.47	≤54	PASS
				Peak	2483.500	-43.82	≤-21.20	51.38	≤74	PASS
				Peak	2485.600	-37.98	≤-21.20	57.22	≤74	PASS
				Peak	2500.000	-41.25	≤-21.20	53.95	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.88	≤-21.20	54.32	≤74	PASS
				Peak	2388.515	-38.31	≤-21.20	56.89	≤74	PASS
				Peak	2390.000	-40.28	≤-21.20	54.92	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-40.55	≤-21.20	54.65	≤74	PASS
				Peak	2487.280	-38.47	≤-21.20	56.73	≤74	PASS
				Peak	2500.000	-40.6	≤-21.20	54.60	≤74	PASS
2DH5	BT Ant	Low	2402	AV	2310.000	-49.15	≤-41.20	46.05	≤54	PASS
				AV	2381.060	-48.68	≤-41.20	46.52	≤54	PASS
				AV	2390.000	-48.89	≤-41.20	46.31	≤54	PASS
				Peak	2310.000	-44.7	≤-21.20	50.50	≤74	PASS
				Peak	2318.480	-39.09	≤-21.20	56.11	≤74	PASS
				Peak	2390.000	-42.84	≤-21.20	52.36	≤74	PASS
		High	2480	AV	2483.500	-48.39	≤-41.20	46.81	≤54	PASS
				AV	2483.520	-48.39	≤-41.20	46.81	≤54	PASS
				AV	2500.000	-48.64	≤-41.20	46.56	≤54	PASS
				Peak	2483.500	-42.21	≤-21.20	52.99	≤74	PASS
				Peak	2491.360	-39.26	≤-21.20	55.94	≤74	PASS
				Peak	2500.000	-41.46	≤-21.20	53.74	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-41.39	≤-21.20	53.81	≤74	PASS
				Peak	2368.250	-38.47	≤-21.20	56.73	≤74	PASS
				Peak	2390.000	-41.19	≤-21.20	54.01	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-39.23	≤-21.20	55.97	≤74	PASS
				Peak	2492.000	-38.3	≤-21.20	56.90	≤74	PASS



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3DH5	BT Ant	Low	2402	Peak	2500.000	-40.8	≤-21.20	54.40	≤74	PASS
				AV	2310.000	-49.23	≤-41.20	45.97	≤54	PASS
				AV	2374.760	-48.59	≤-41.20	46.61	≤54	PASS
				AV	2390.000	-48.8	≤-41.20	46.40	≤54	PASS
				Peak	2310.000	-43.32	≤-21.20	51.88	≤74	PASS
				Peak	2384.630	-40.03	≤-21.20	55.17	≤74	PASS
				Peak	2390.000	-42.82	≤-21.20	52.38	≤74	PASS
		High	2480	AV	2483.500	-48.29	≤-41.20	46.91	≤54	PASS
				AV	2483.520	-48.29	≤-41.20	46.91	≤54	PASS
				AV	2500.000	-48.75	≤-41.20	46.45	≤54	PASS
				Peak	2483.500	-42.42	≤-21.20	52.78	≤74	PASS
				Peak	2492.000	-40.51	≤-21.20	54.69	≤74	PASS
				Peak	2500.000	-43.11	≤-21.20	52.09	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-41.45	≤-21.20	53.75	≤74	PASS
				Peak	2344.100	-37.93	≤-21.20	57.27	≤74	PASS
				Peak	2390.000	-41.26	≤-21.20	53.94	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-40.44	≤-21.20	54.76	≤74	PASS
				Peak	2487.920	-38.93	≤-21.20	56.27	≤74	PASS
				Peak	2500.000	-40.09	≤-21.20	55.11	≤74	PASS

Note:

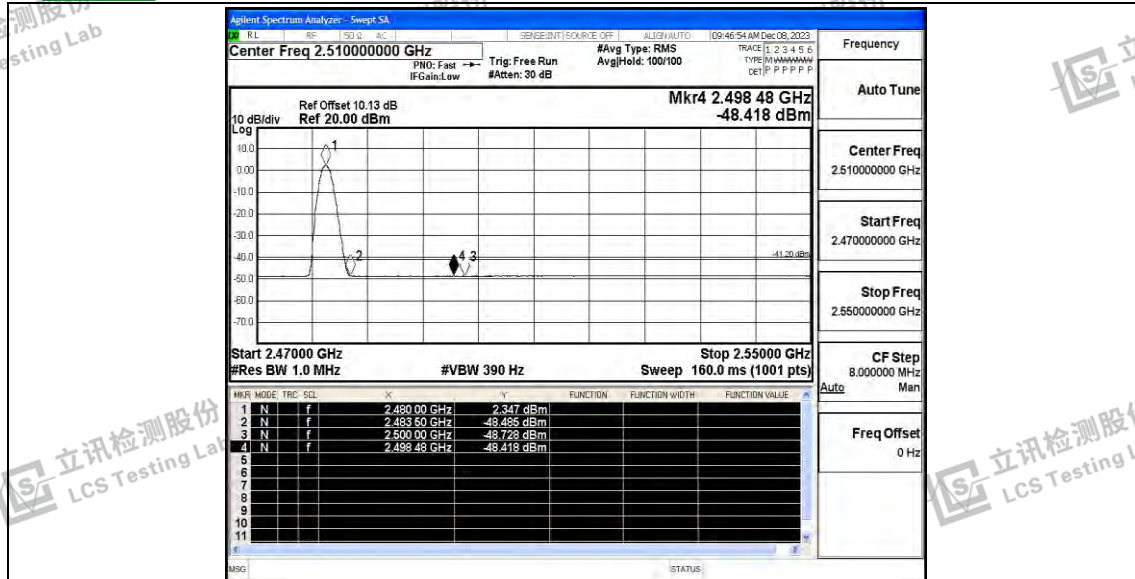
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



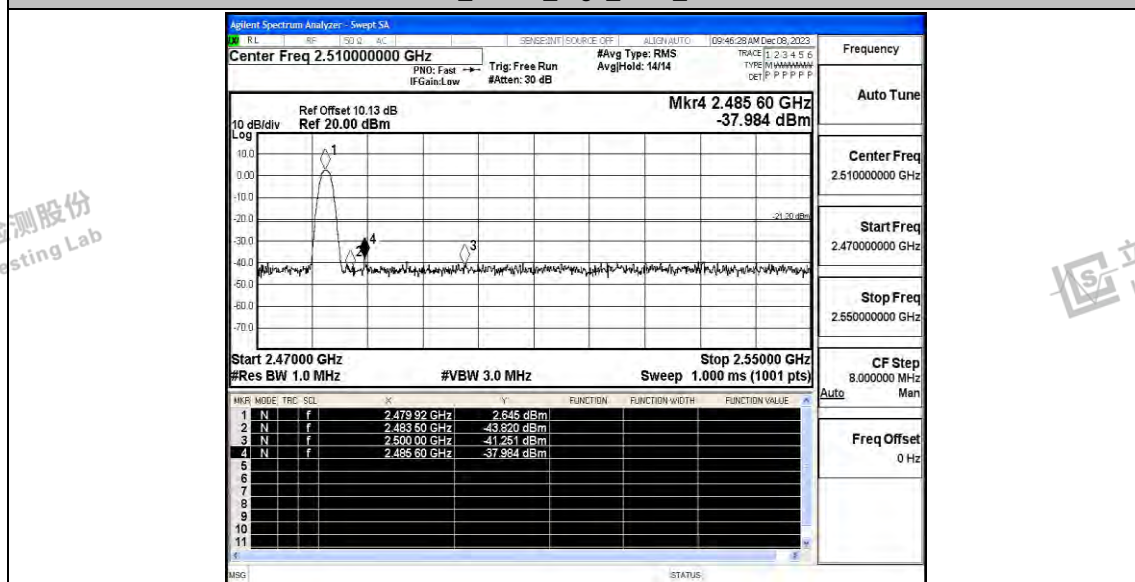


Test Graphs





DH5_BT Ant_High_2480_Peak



DH5_BT Ant_Low_Hop_2402_Peak

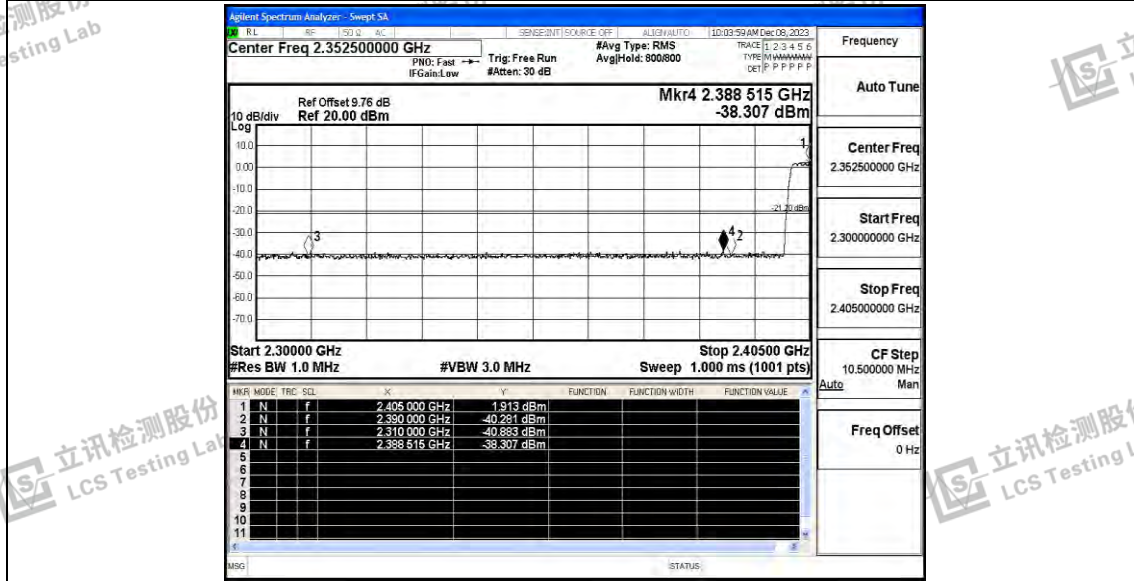


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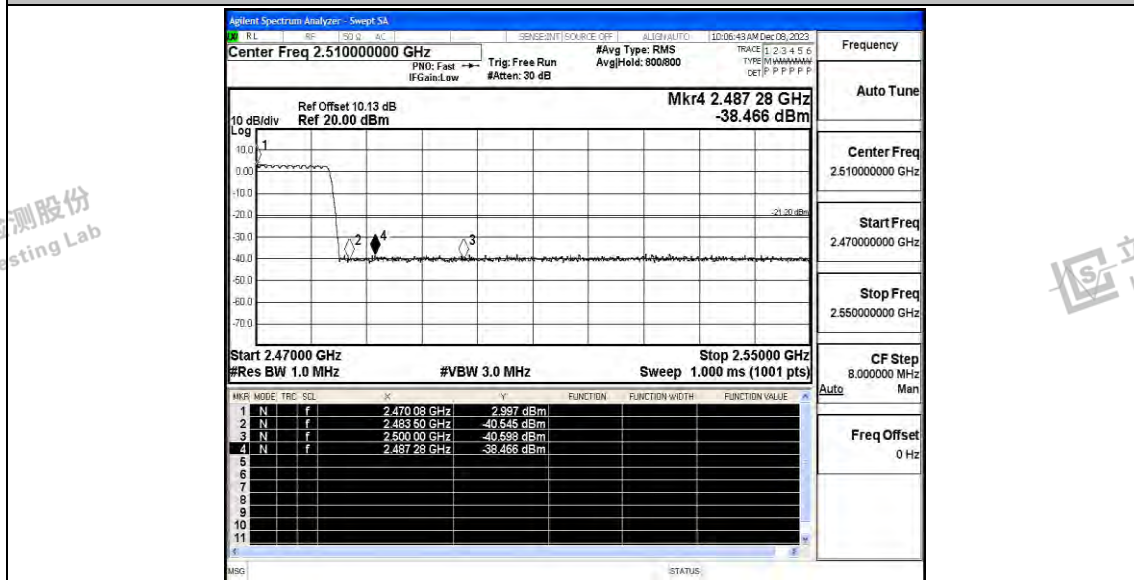
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DH5_BT Ant_High_Hop_2480_Peak



2DH5_BT Ant_Low_2402_AV

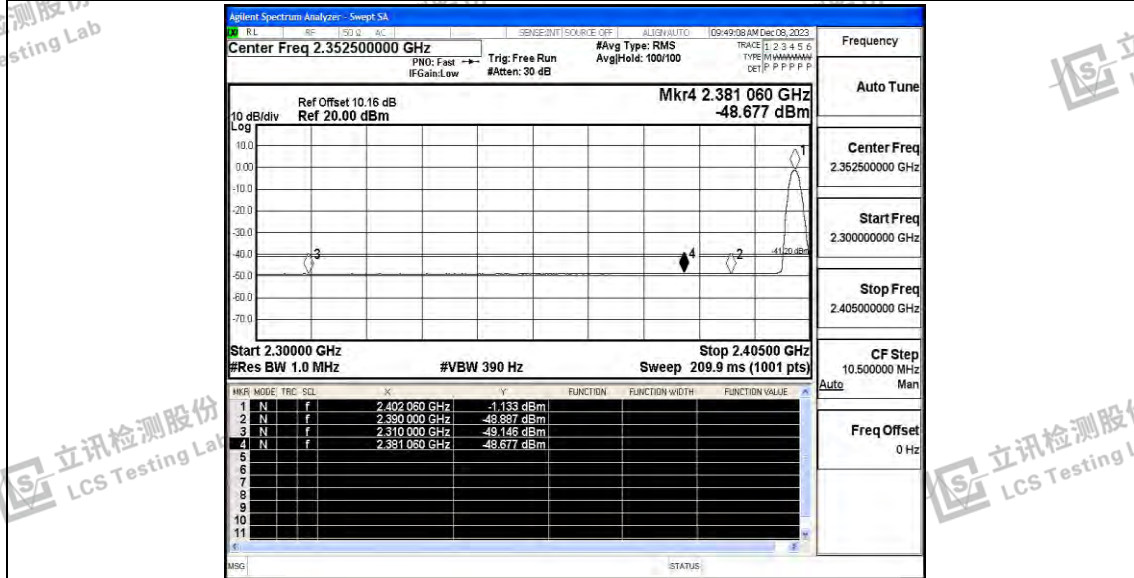


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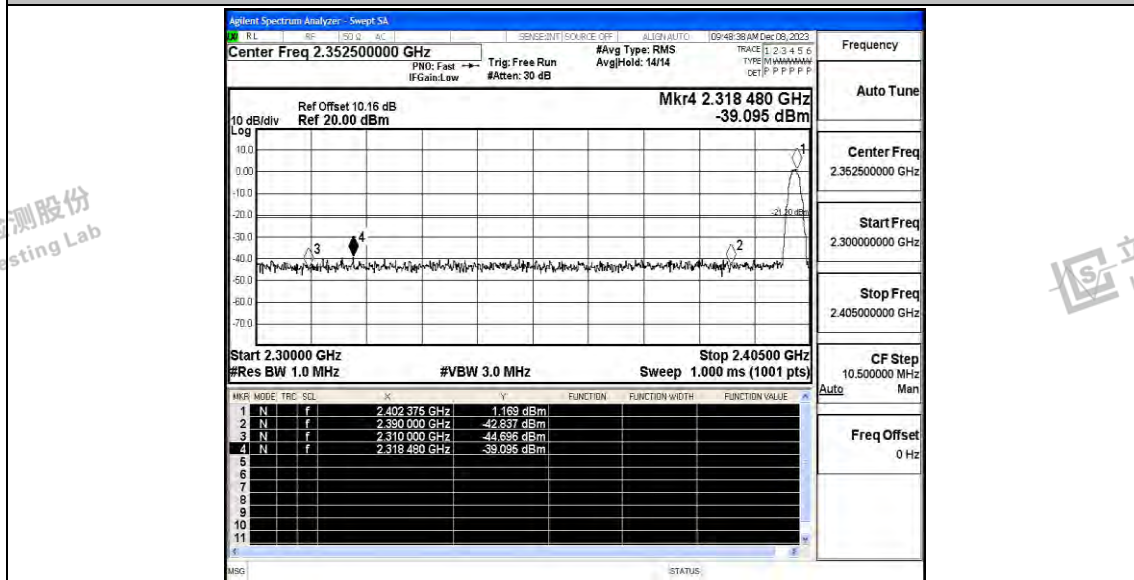
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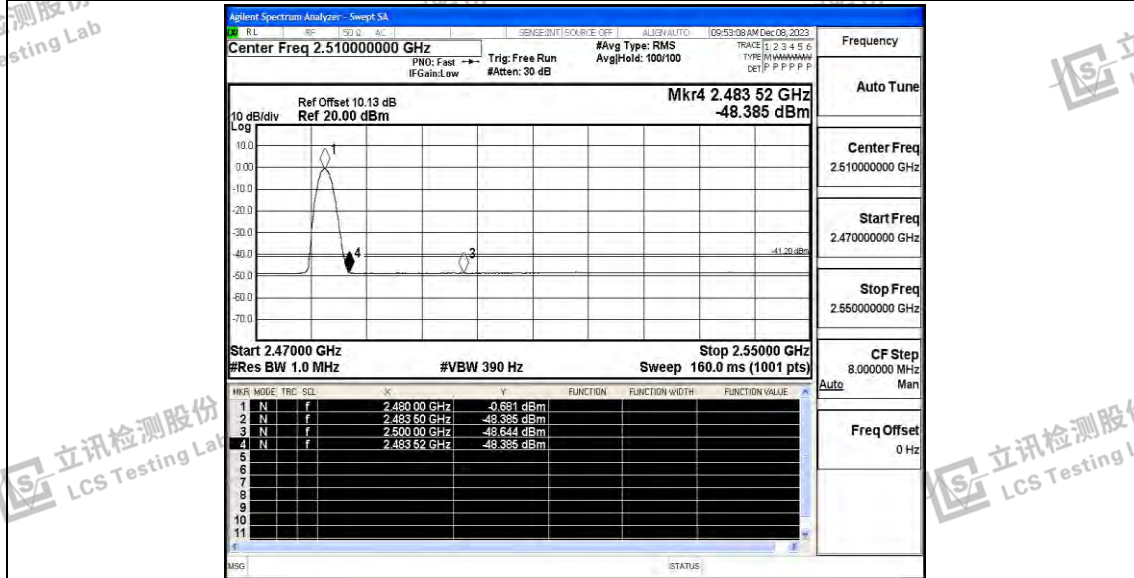


2DH5_BT Ant_Low_2402_Peak

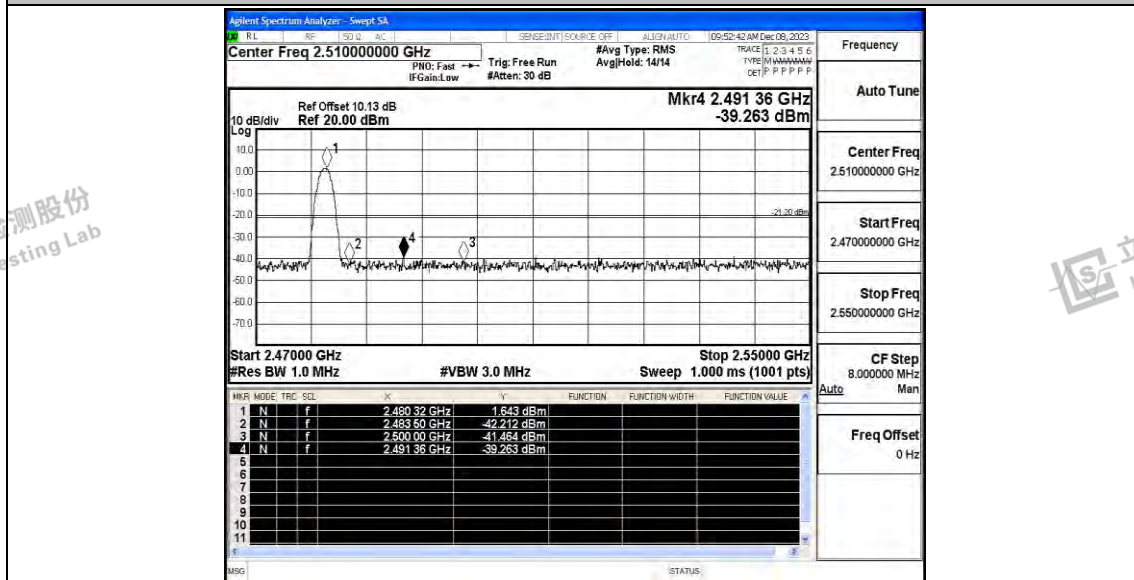


2DH5_BT Ant_High_2480_AV





2DH5_BT Ant_High_2480_Peak



2DH5_BT Ant_Low_Hop_2402_Peak

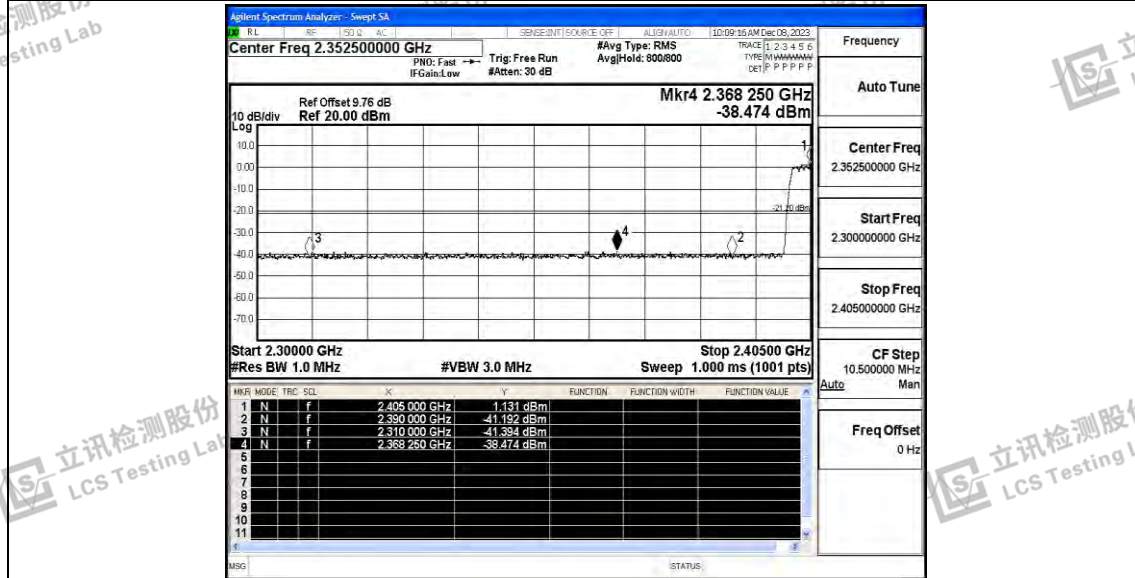


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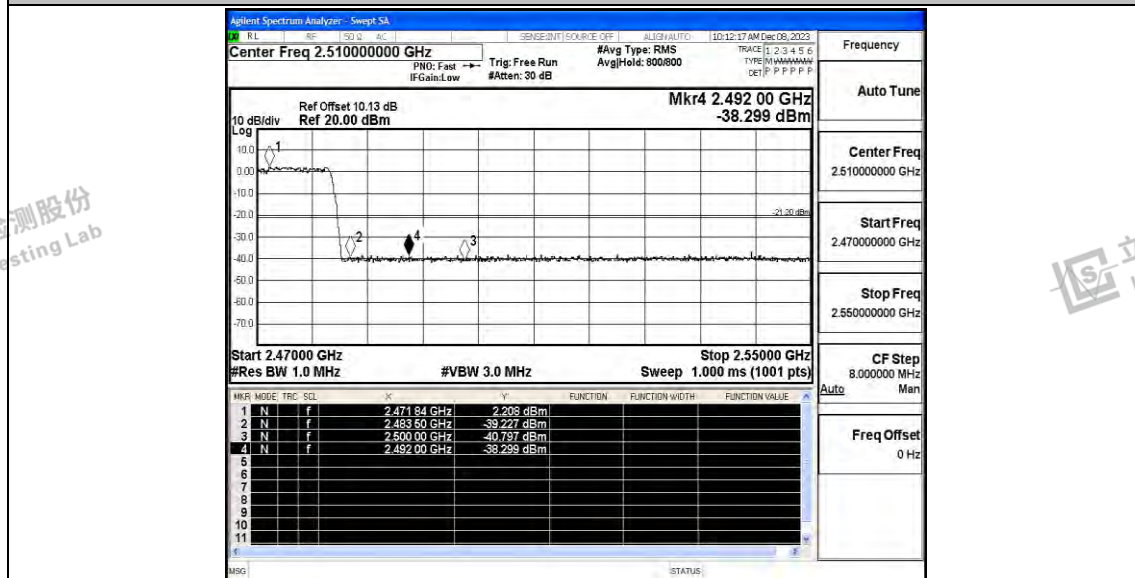
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2DH5_BT Ant_High_Hop_2480_Peak



3DH5_BT Ant_Low_2402_AV

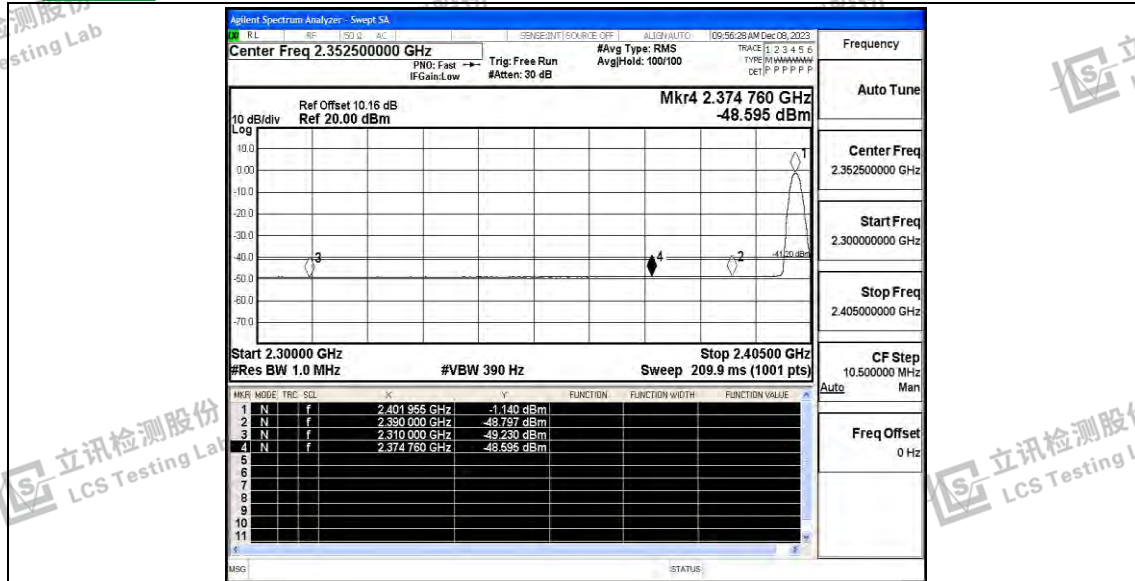


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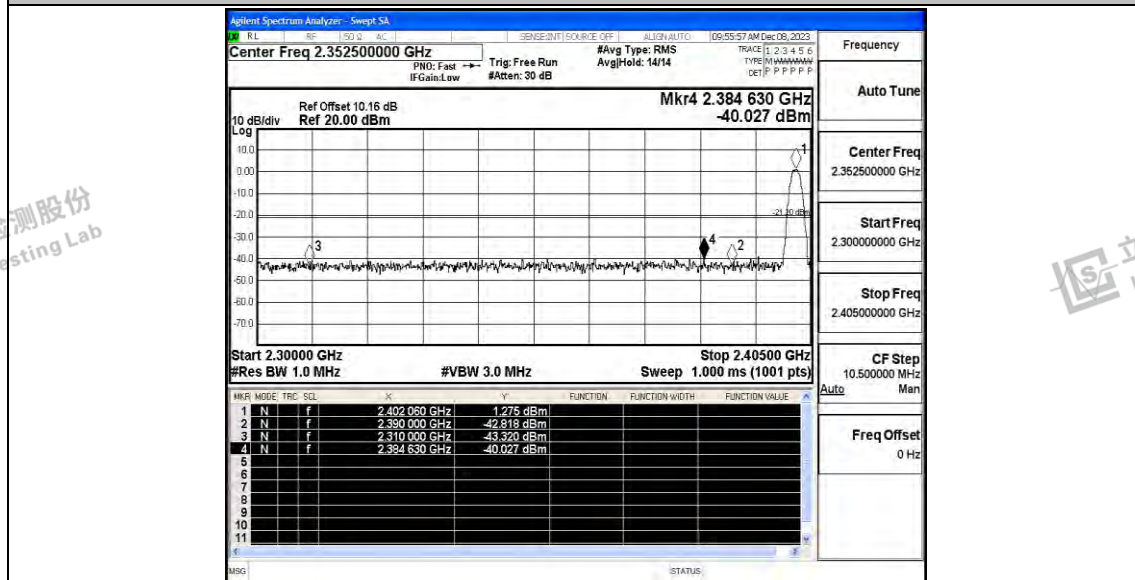
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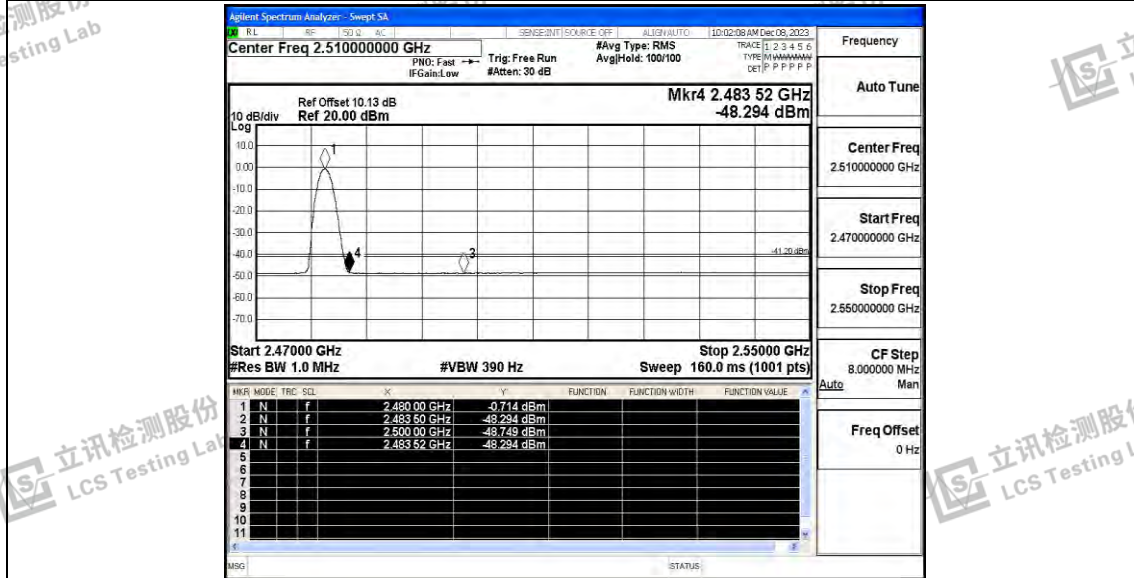


3DH5_BT Ant_Low_2402_Peak

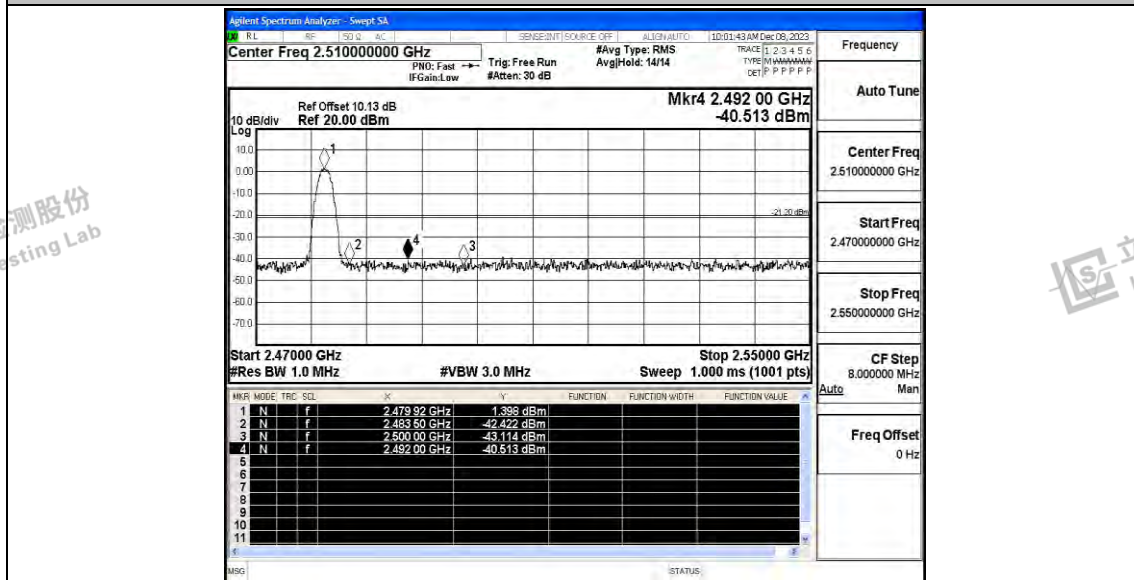


3DH5_BT Ant_High_2480_AV





3DH5_BT Ant_High_2480_Peak



3DH5_BT Ant_Low_Hop_2402_Peak

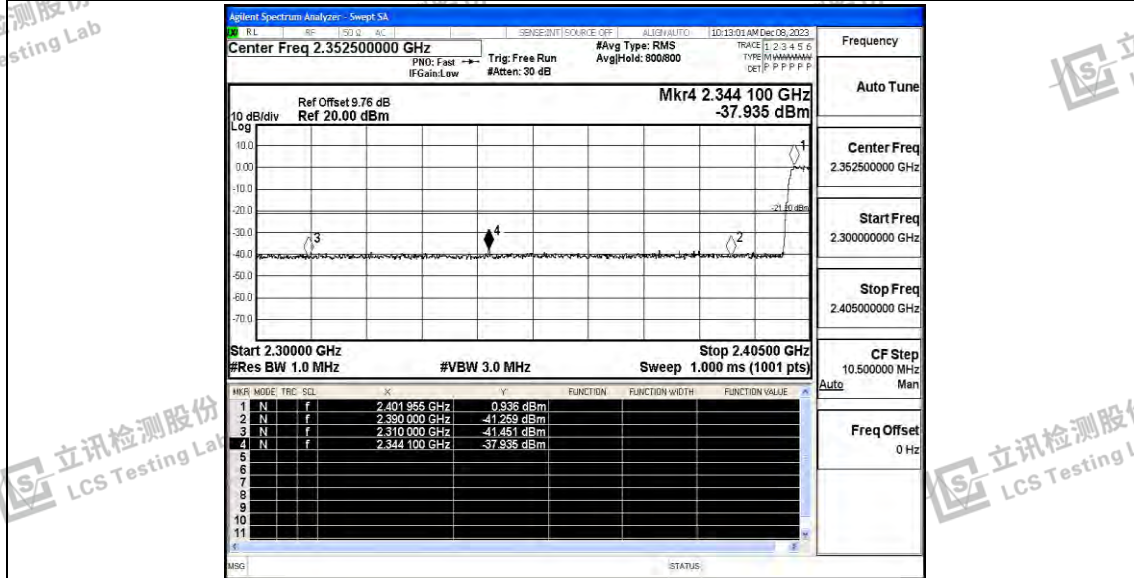


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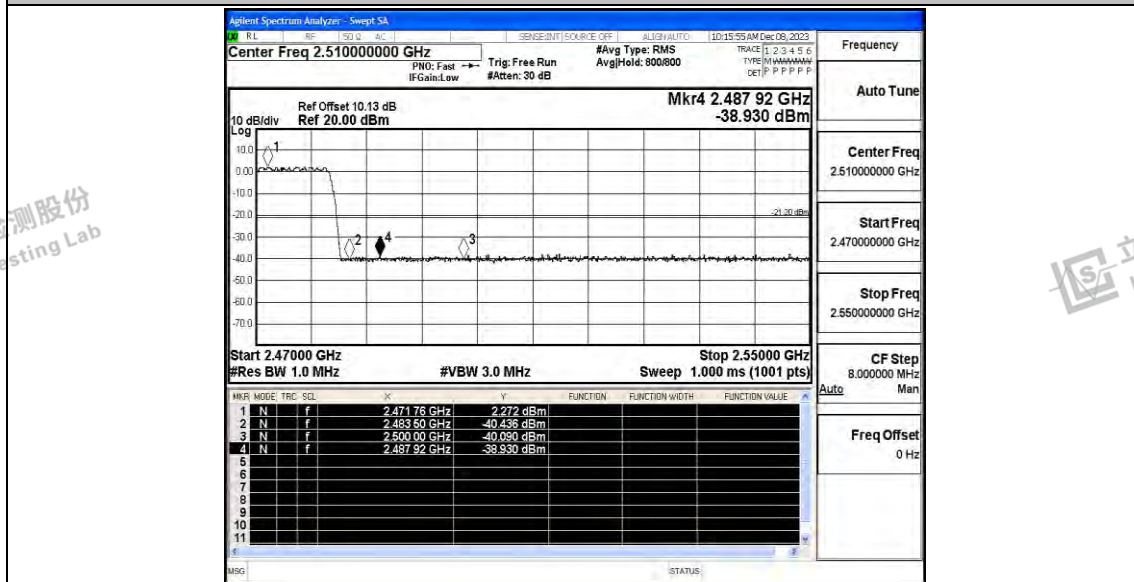
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3DH5_BT Ant_High_Hop_2480_Peak



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