



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: SOUNDEXTREME SE18E

Test Model: SEI-SE18E01

Environmental Conditions

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





A.1 20dB Emission Bandwidth

Test Result

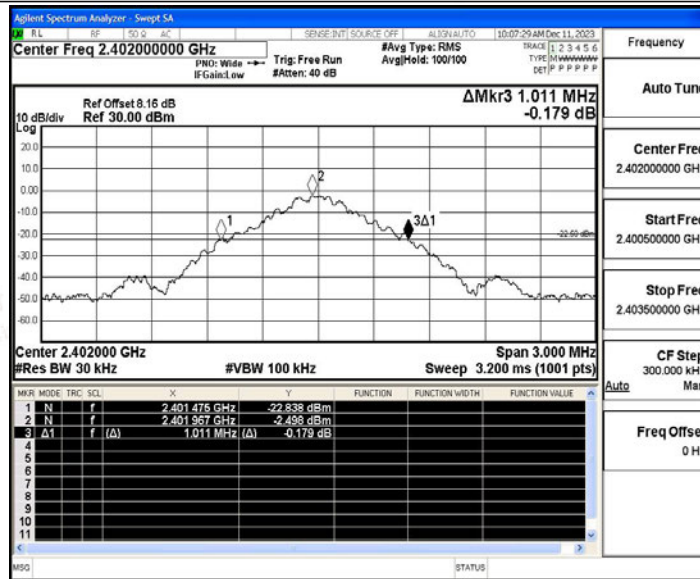
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	1.011	2401.475	2402.486	---
		2441	1.026	2440.466	2441.492	---
		2480	1.038	2479.454	2480.492	---
2DH5	Ant1	2402	1.290	2401.358	2402.648	---
		2441	1.326	2440.328	2441.654	---
		2480	1.287	2479.355	2480.642	---
3DH5	Ant1	2402	1.299	2401.331	2402.630	---
		2441	1.308	2440.334	2441.642	---
		2480	1.344	2479.316	2480.660	---



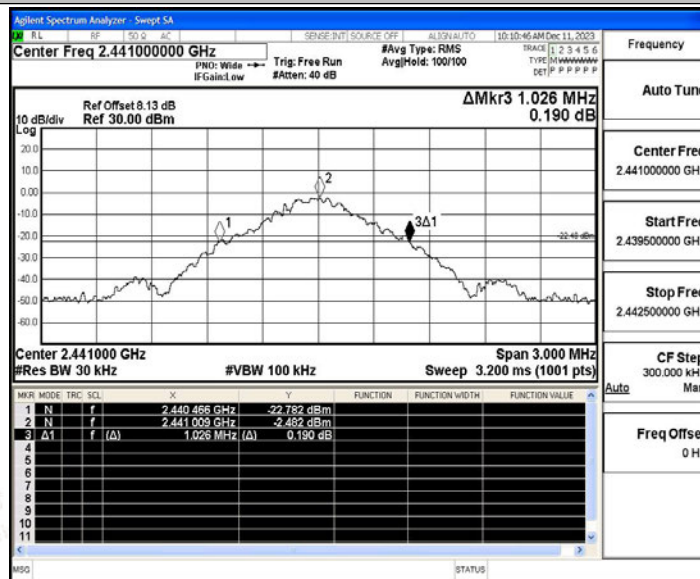


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

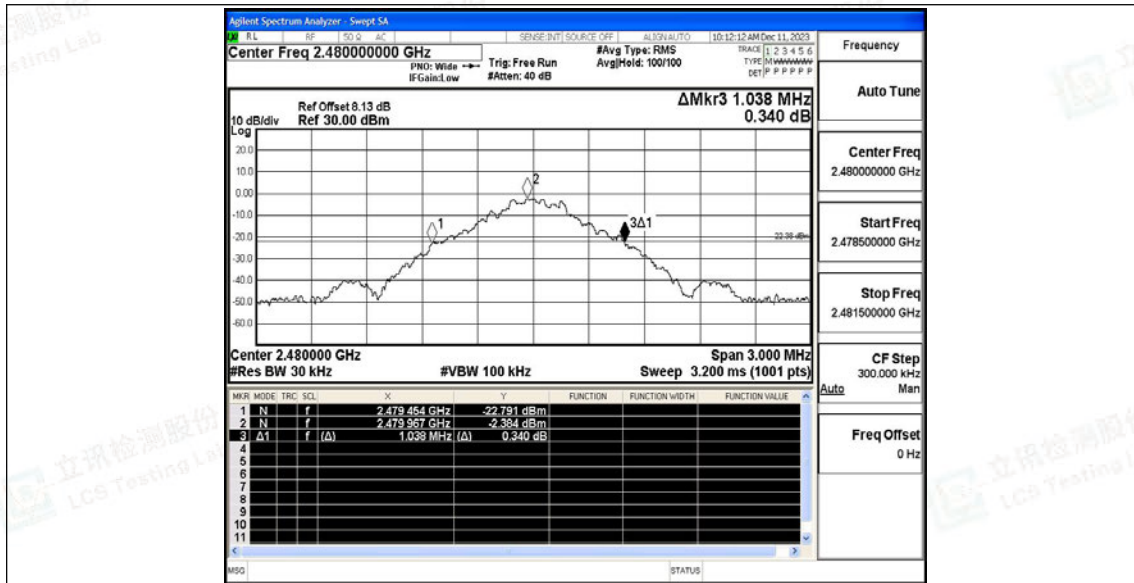


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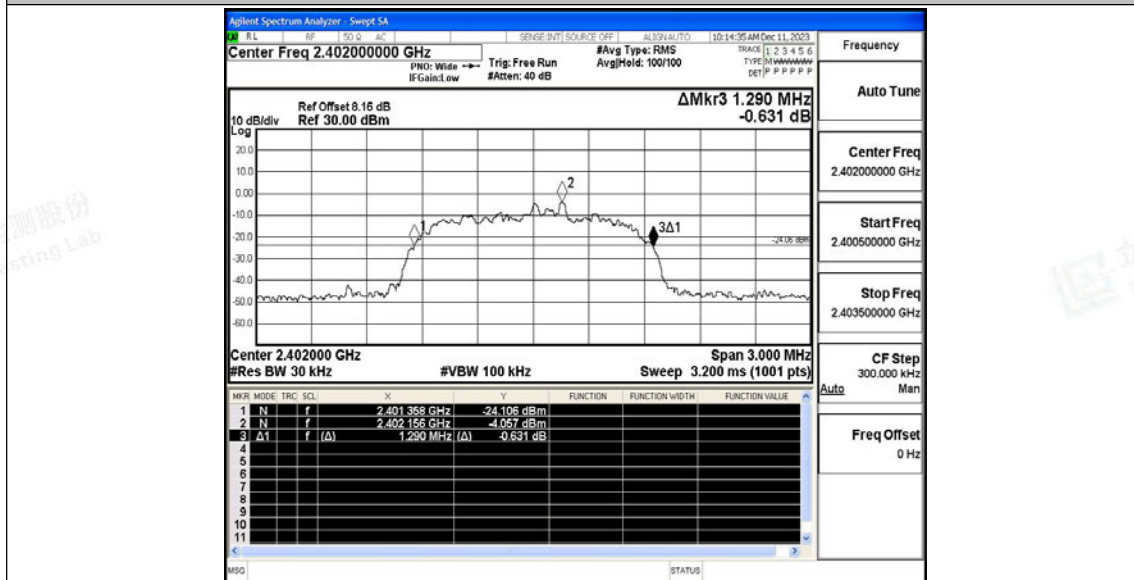
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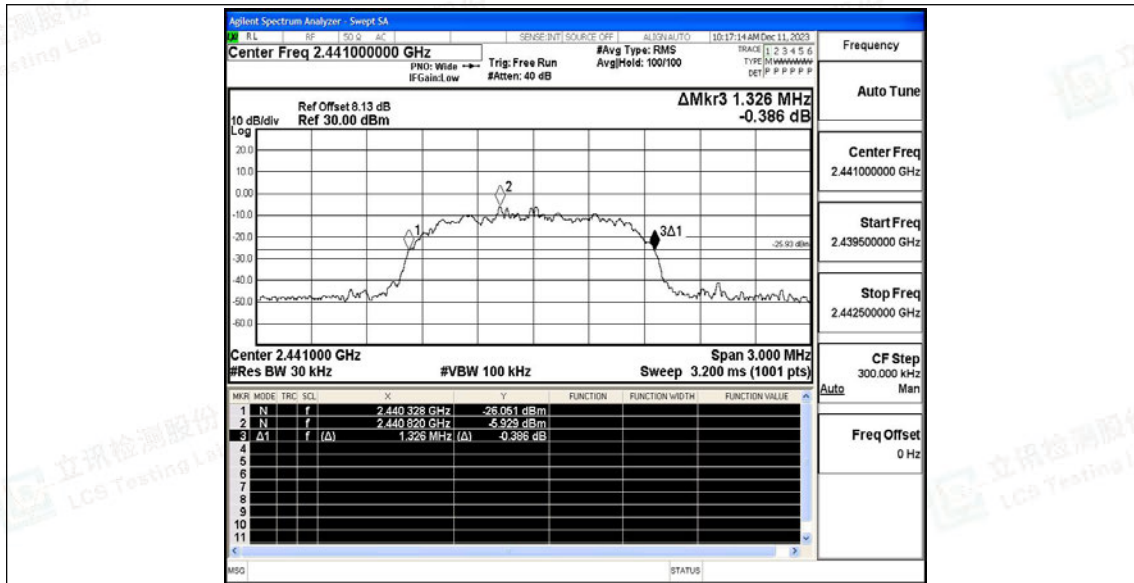


2DH5_Ant1_2402

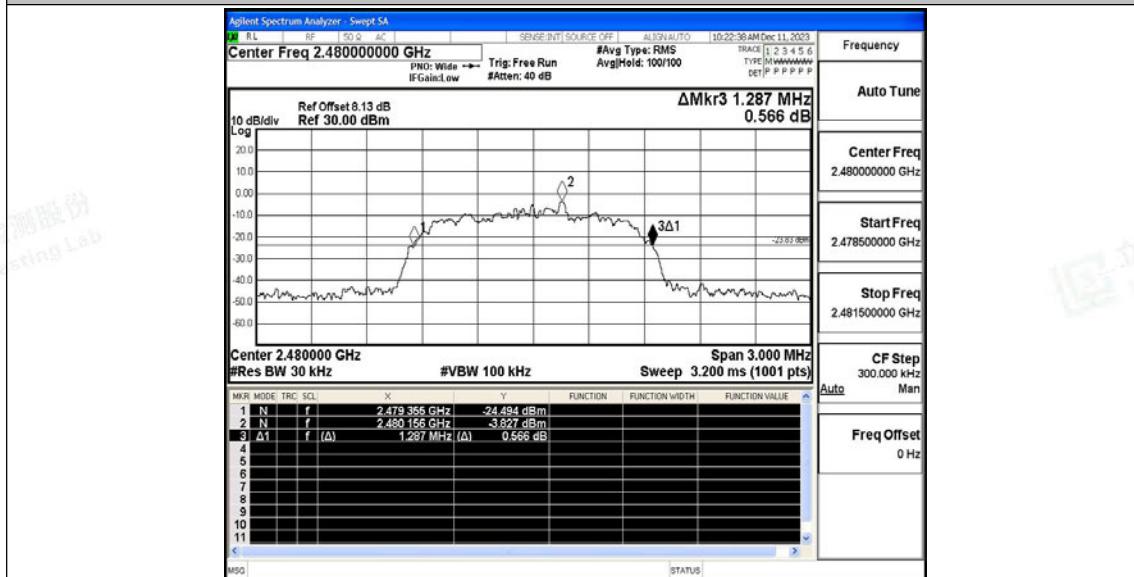


2DH5_Ant1_2441



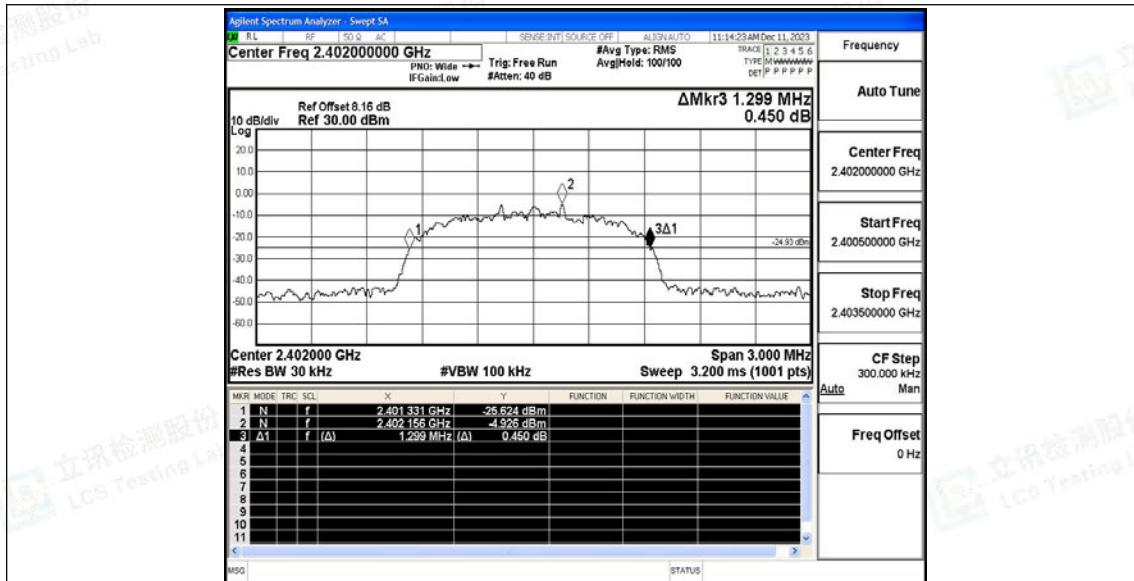


2DH5_Ant1_2480

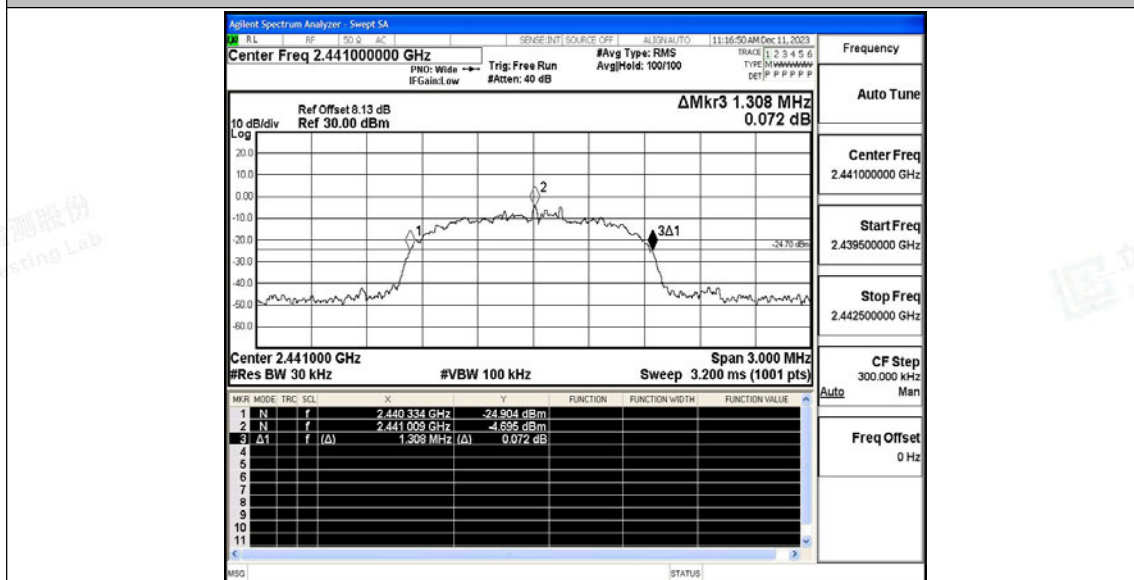


3DH5_Ant1_2402



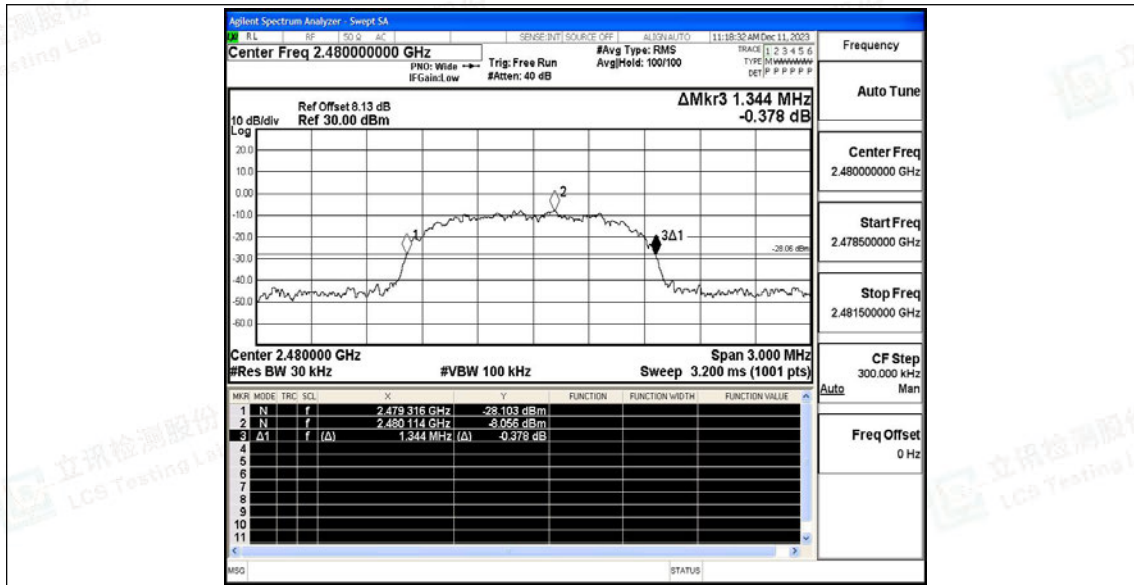


3DH5_Ant1_2441



3DH5_Ant1_2480







A.2 Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.91307	2401.5456	2402.4587	---	---
		2441	0.91082	2440.5447	2441.4555	---	---
		2480	0.91613	2479.5417	2480.4579	---	---
2DH5	Ant1	2402	1.1847	2401.4013	2402.5860	---	---
		2441	1.1842	2440.4014	2441.5856	---	---
		2480	1.1846	2479.3982	2480.5828	---	---
3DH5	Ant1	2402	1.1876	2401.3924	2402.5800	---	---
		2441	1.1942	2440.3890	2441.5832	---	---
		2480	1.1797	2479.3975	2480.5772	---	---



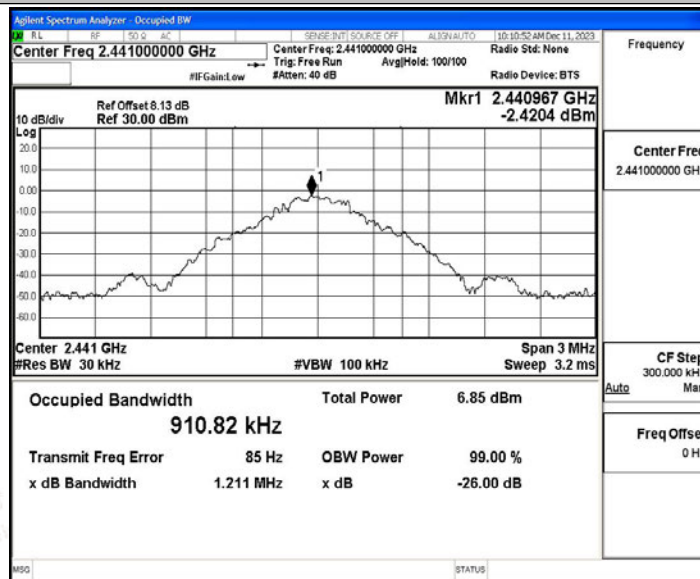


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

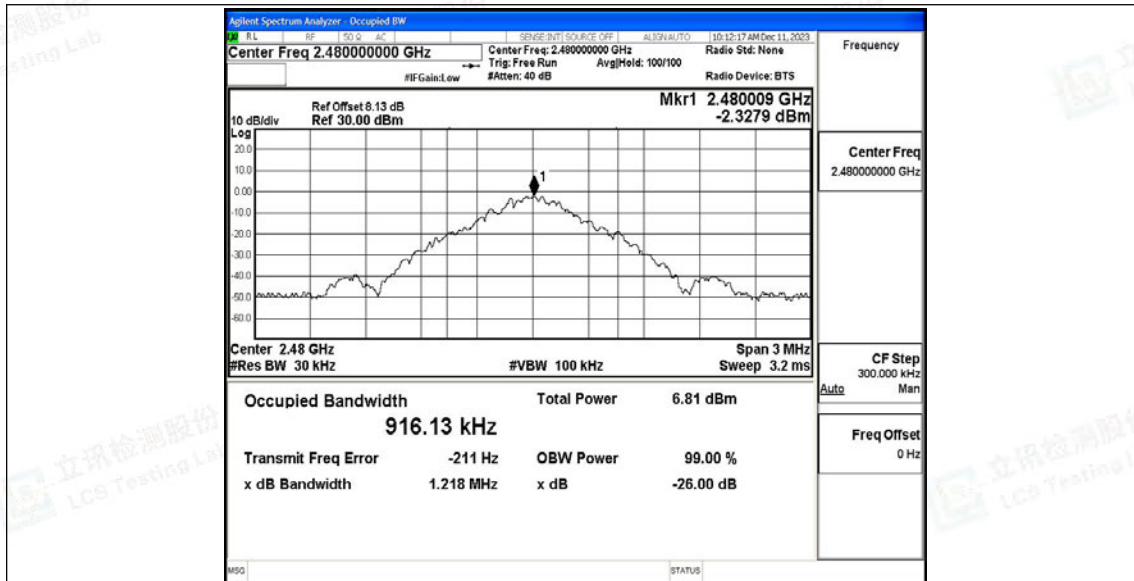


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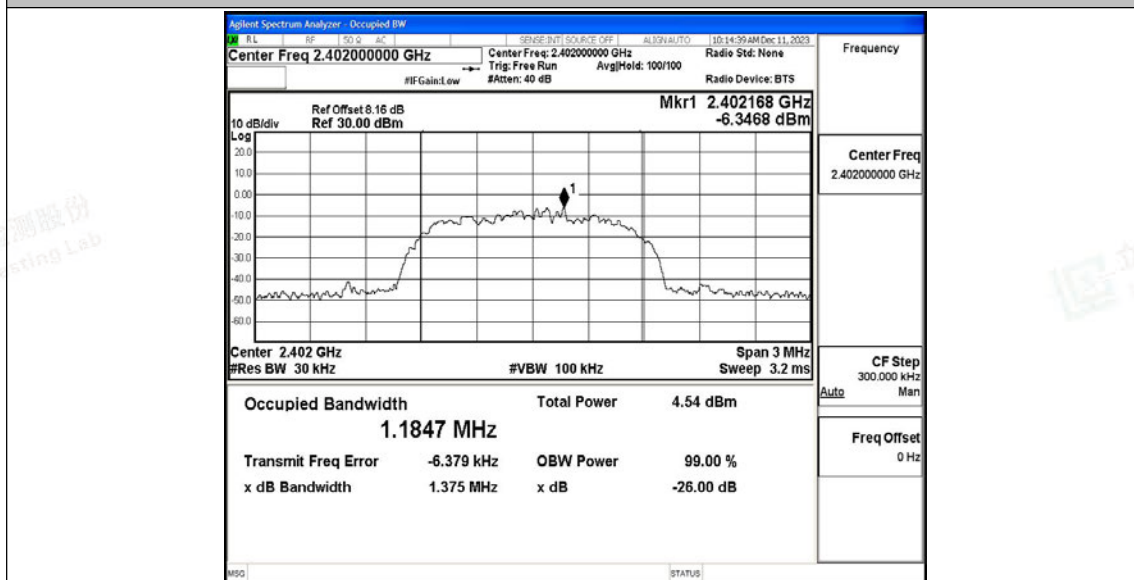
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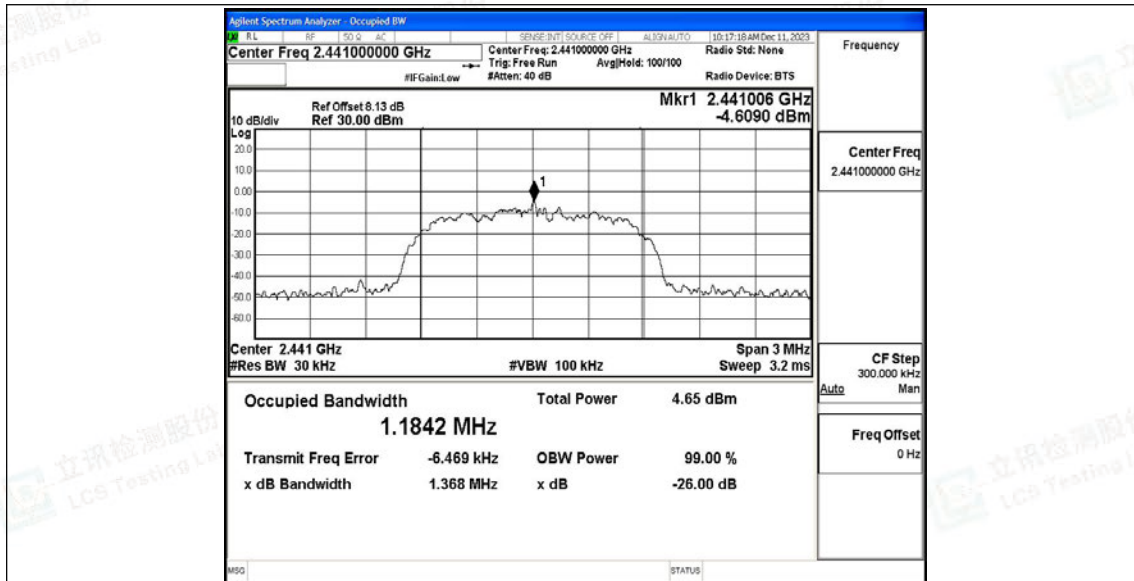


2DH5_Ant1_2402

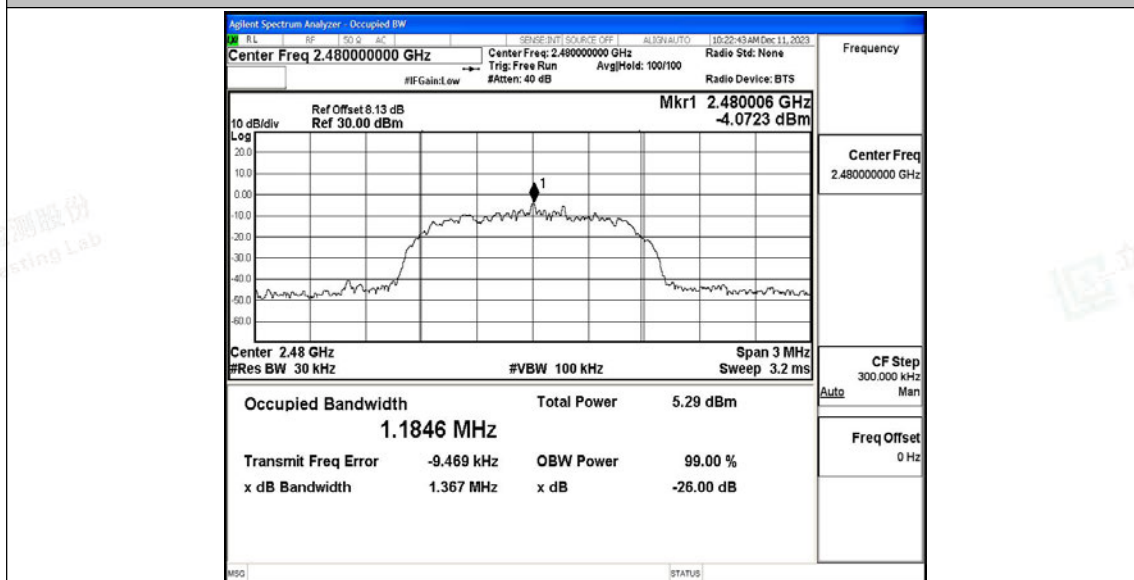


2DH5_Ant1_2441



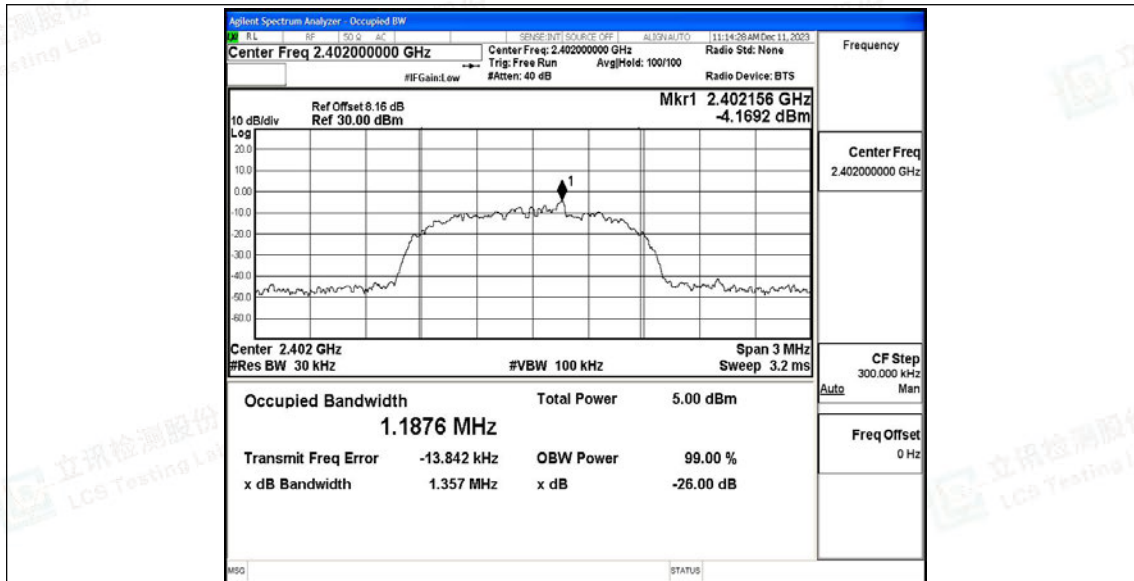


2DH5_Ant1_2480

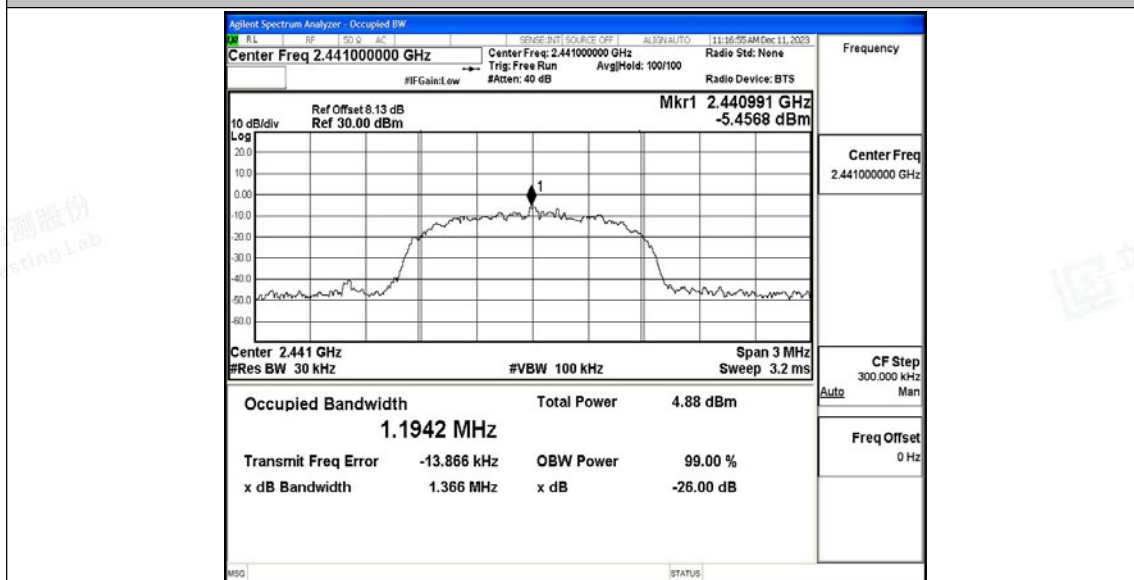


3DH5_Ant1_2402



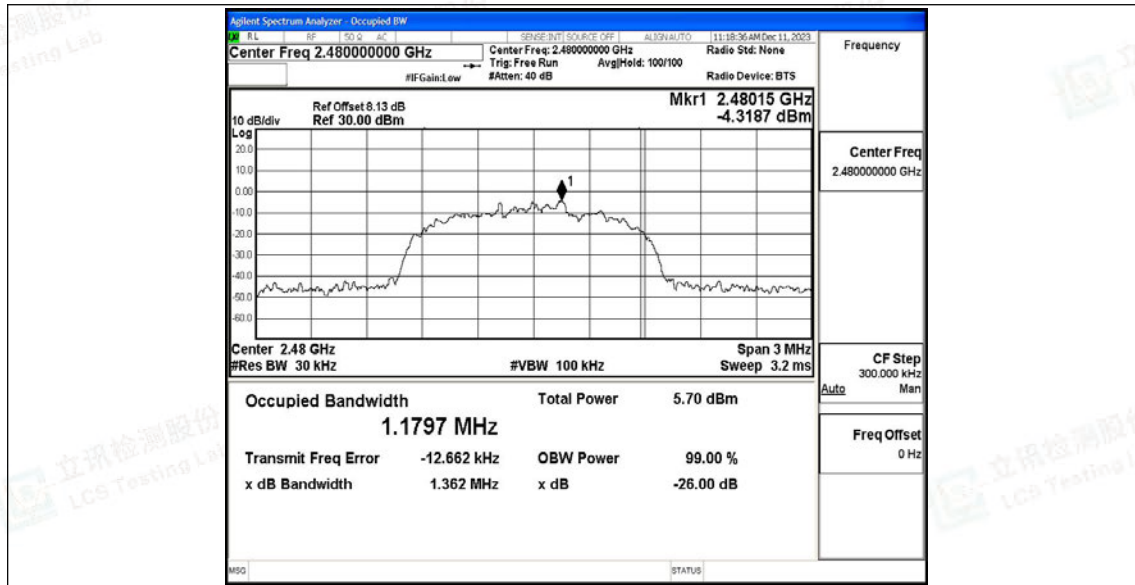


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Maximum Peak Conducted Output Power

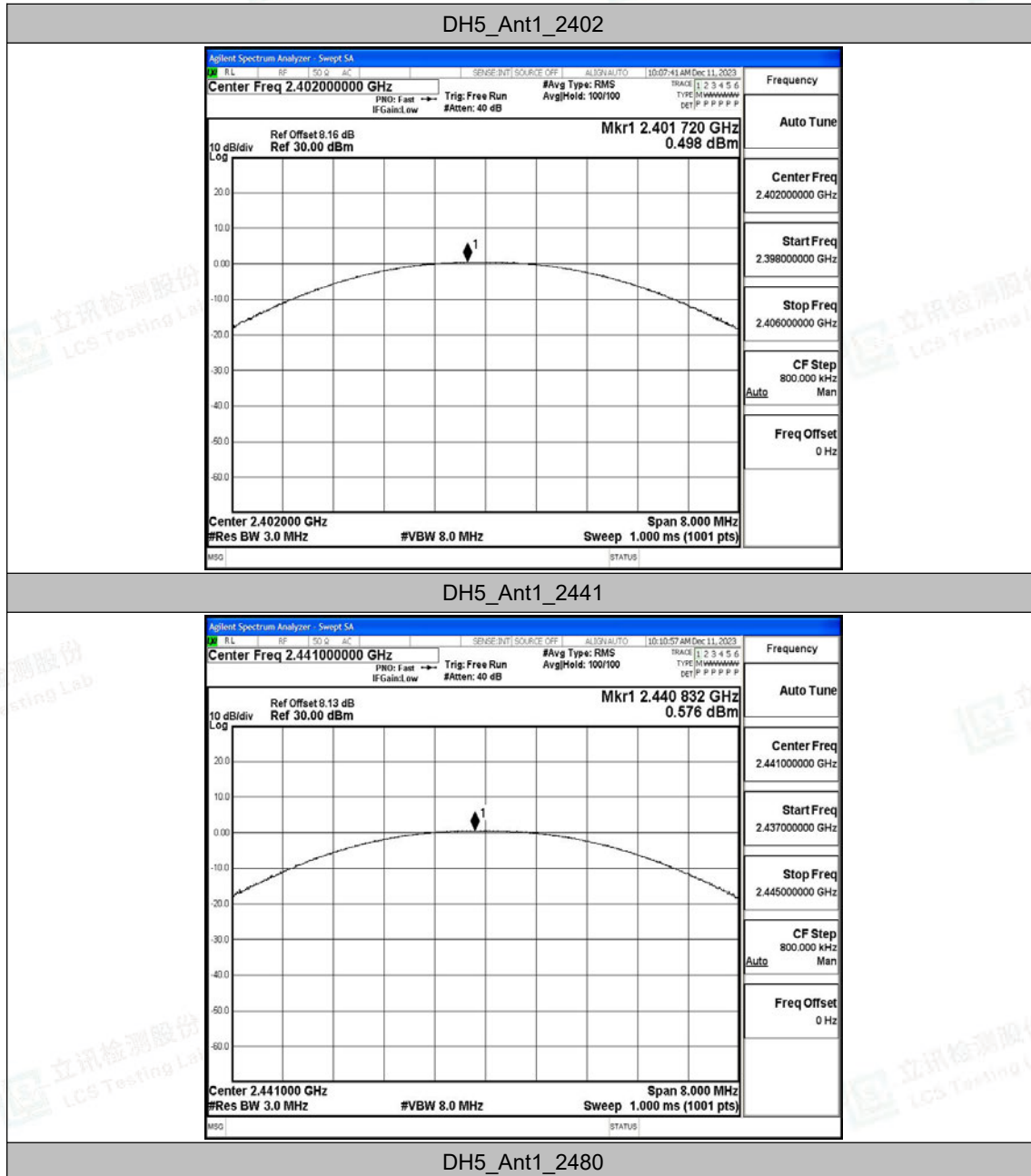
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.50	≤21	PASS
		2441	0.58	≤21	PASS
		2480	0.69	≤21	PASS
2DH5	Ant1	2402	0.02	≤21	PASS
		2441	0.26	≤21	PASS
		2480	0.87	≤21	PASS
3DH5	Ant1	2402	0.41	≤21	PASS
		2441	0.55	≤21	PASS
		2480	0.71	≤21	PASS





Test Graphs

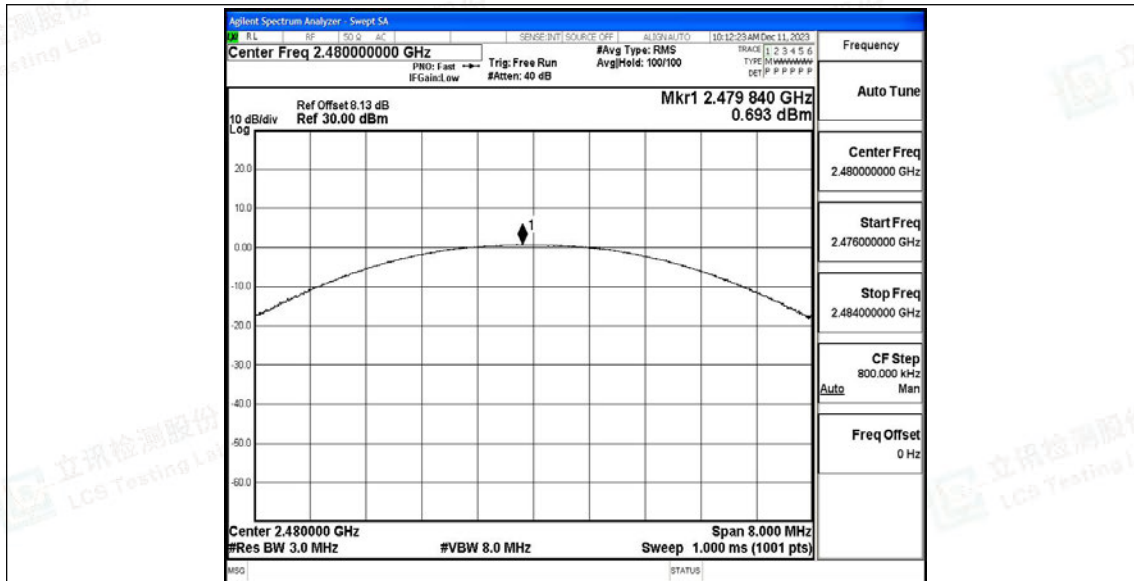


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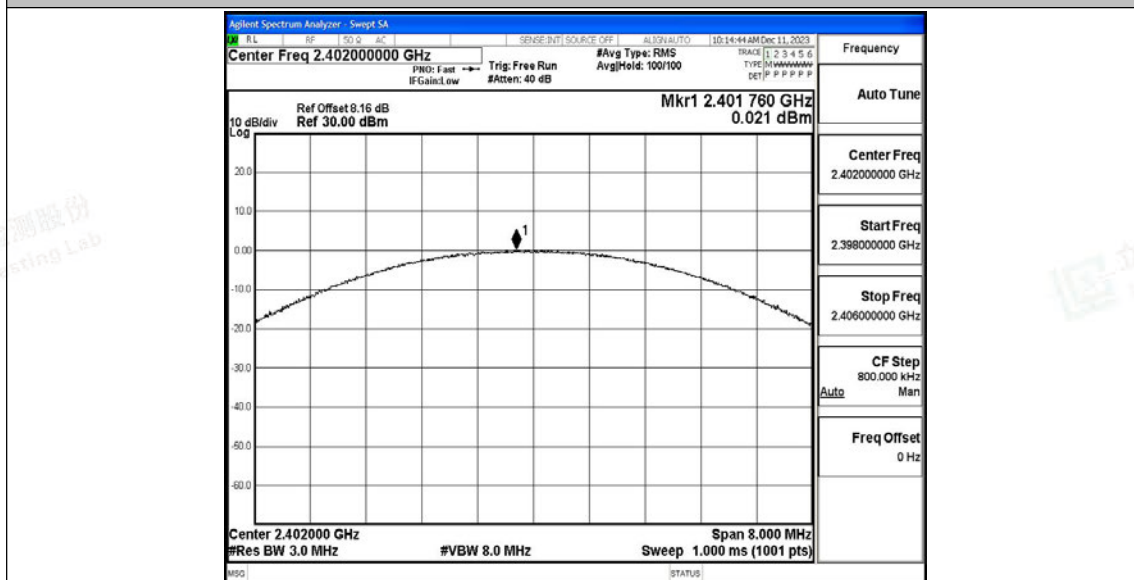
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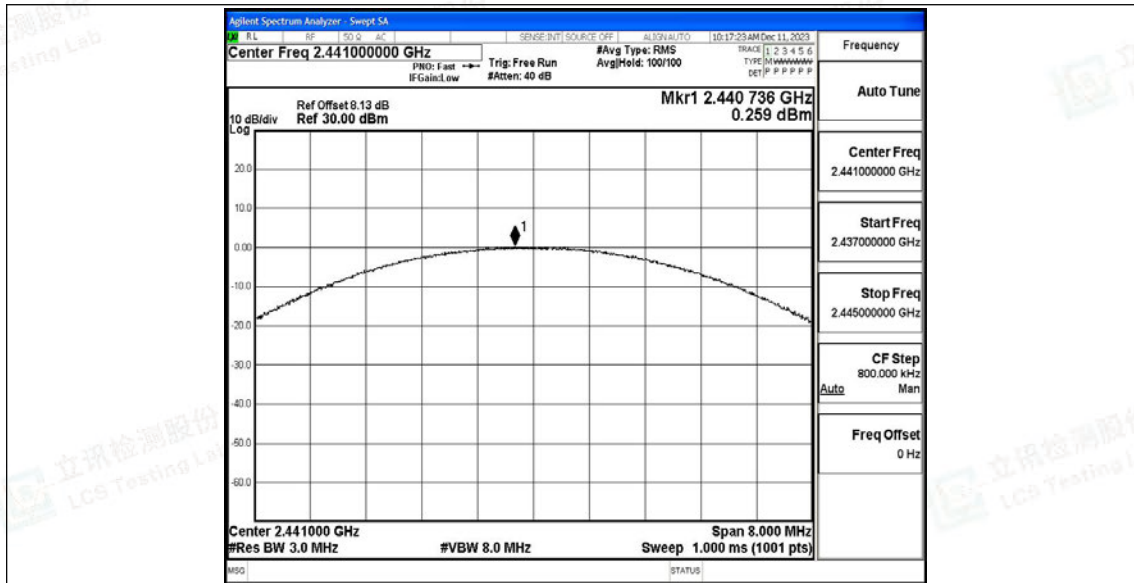


2DH5_Ant1_2402

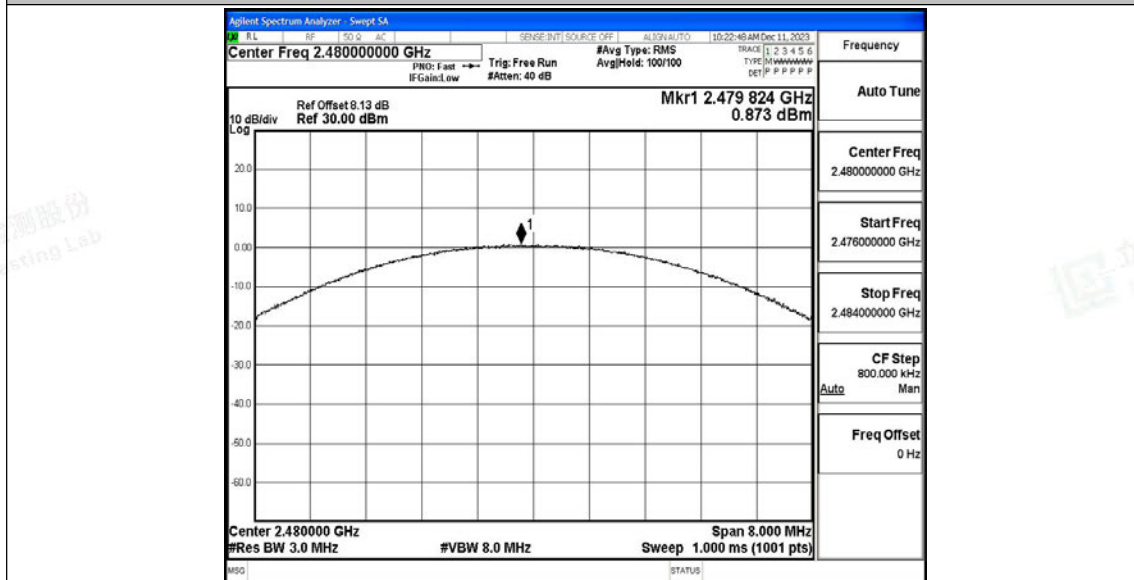


2DH5_Ant1_2441



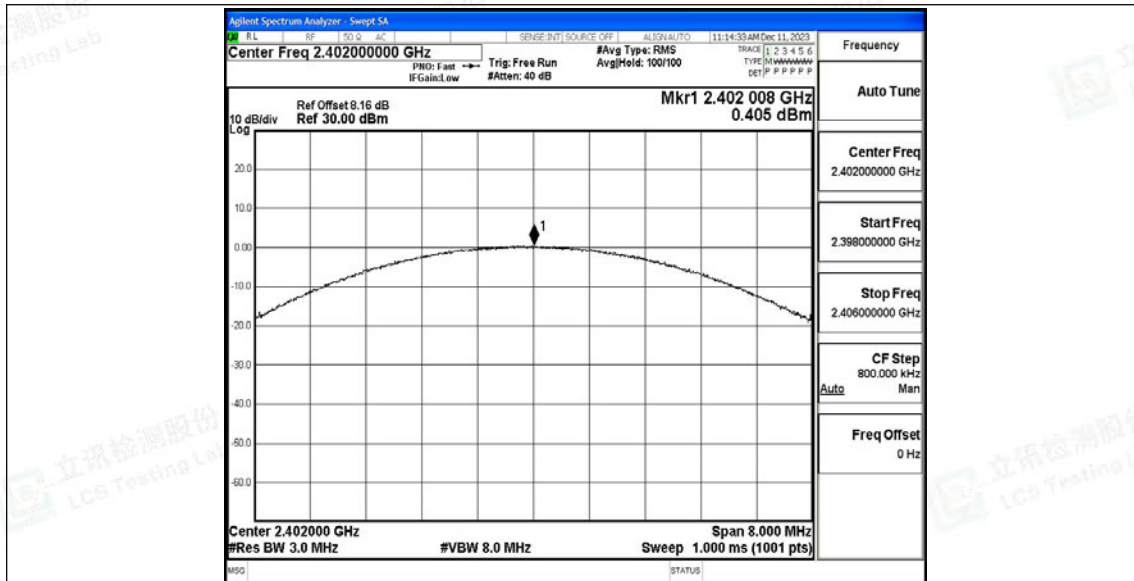


2DH5_Ant1_2480

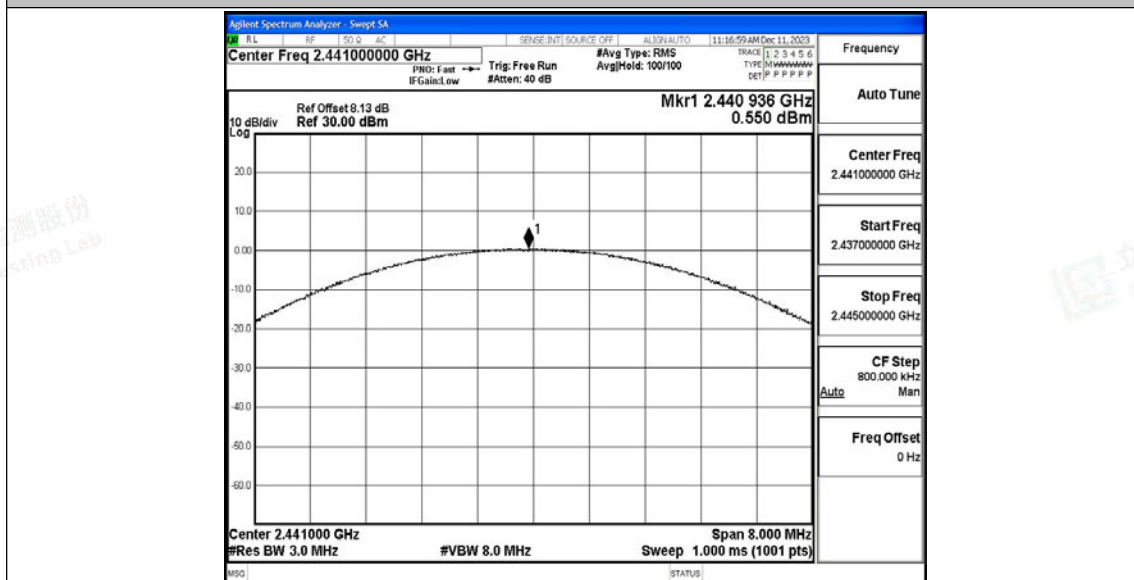


3DH5_Ant1_2402



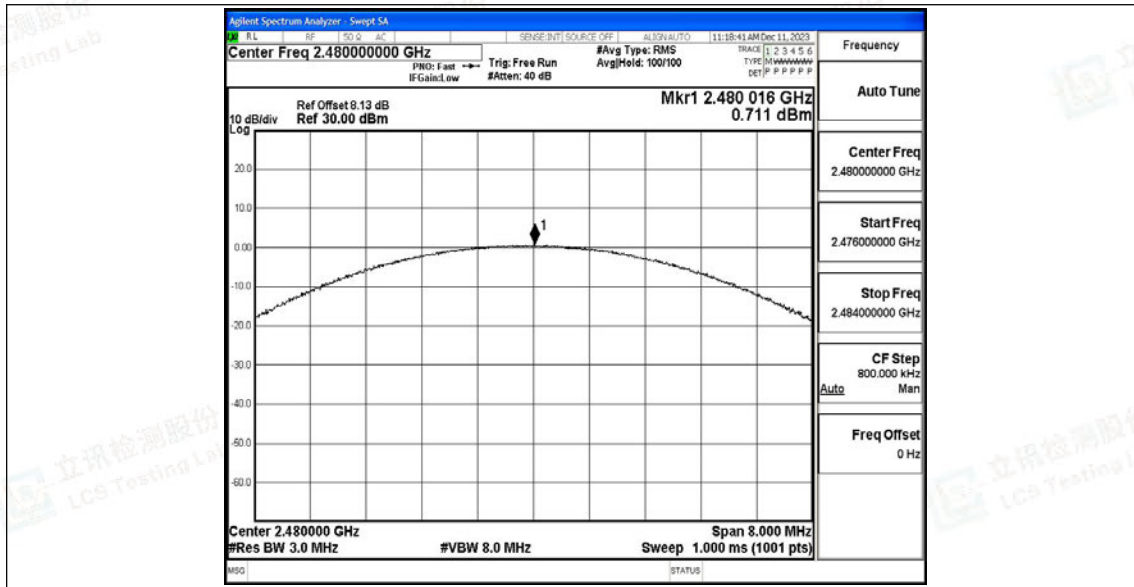


3DH5_Ant1_2441



3DH5_Ant1_2480







A.4 Carrier frequency separation

Test Result

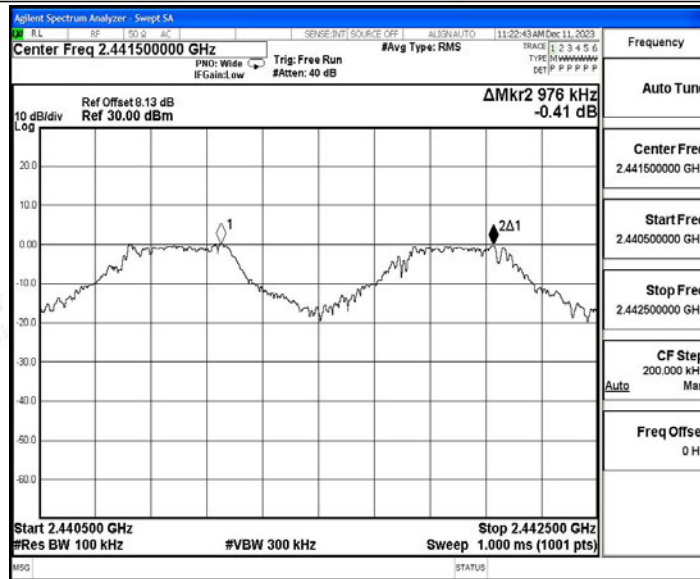
TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.976	≥ 0.692	PASS
2DH5	Ant1	Hop	0.928	≥ 0.884	PASS
3DH5	Ant1	Hop	1.056	≥ 0.896	PASS



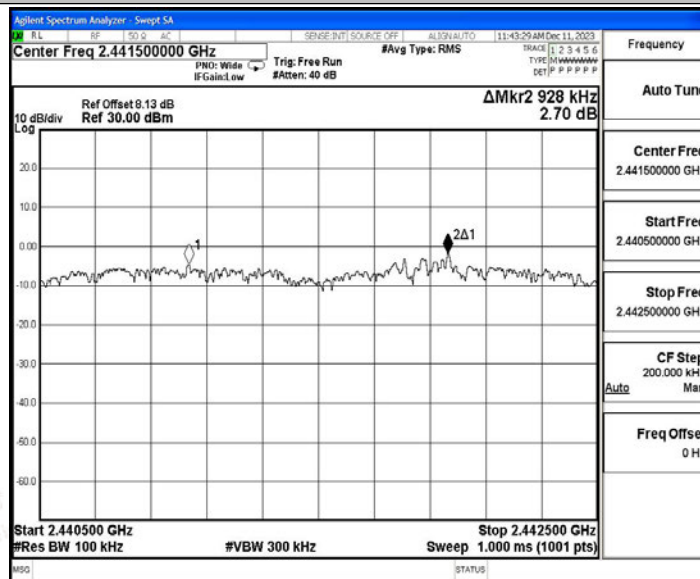


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



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A.5 Time of occupancy

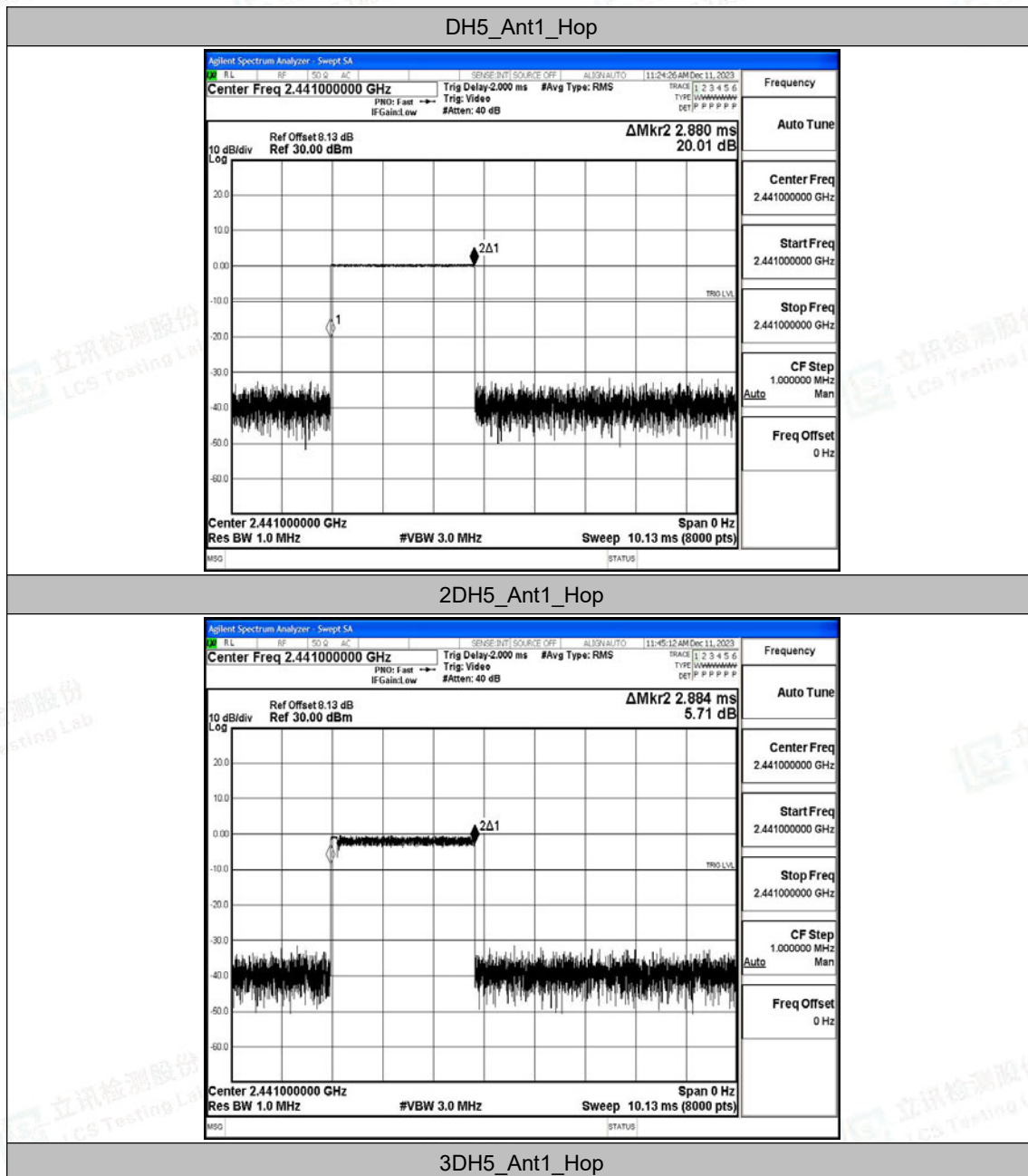
Test Result

TestMode	Antenna	Frequency[MHz]	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	2.887	106.67	0.308	≤0.4	PASS





Test Graphs

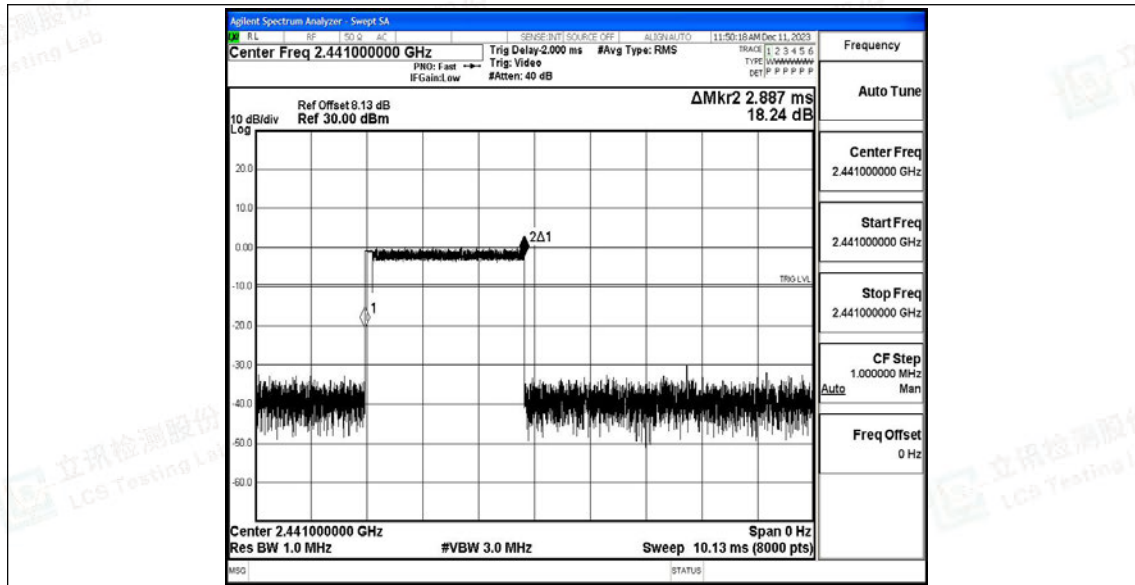


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A.6 Number of hopping channels

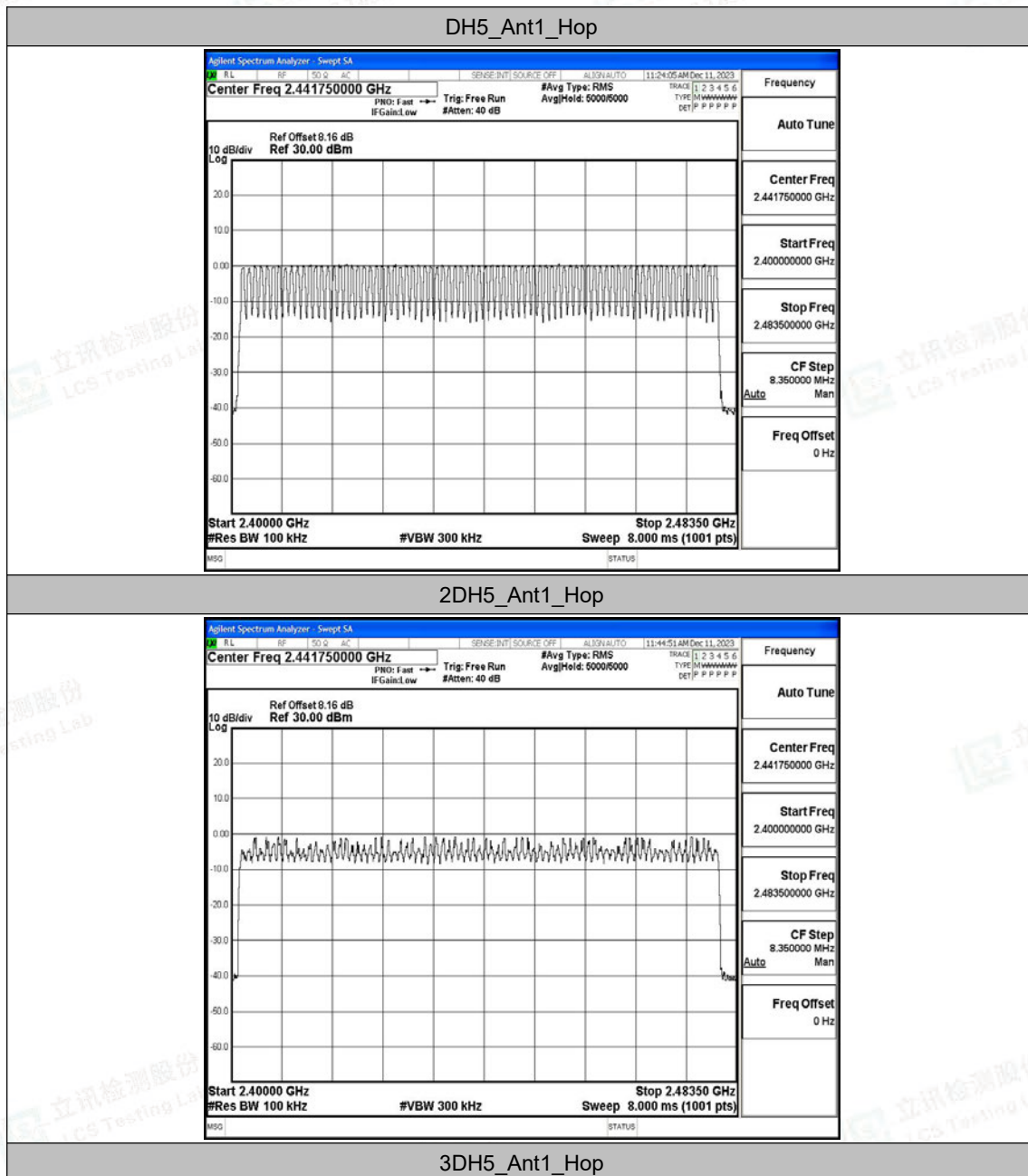
Test Result

TestMode	Antenna	Frequency[MHz]	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

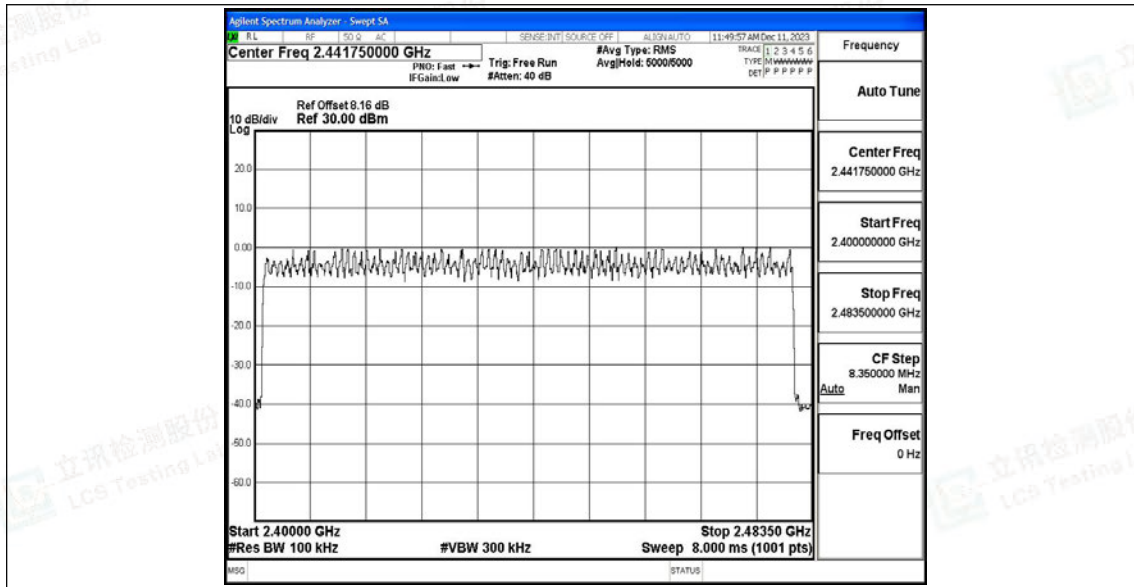


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A.7 Band edge measurements

Test Result

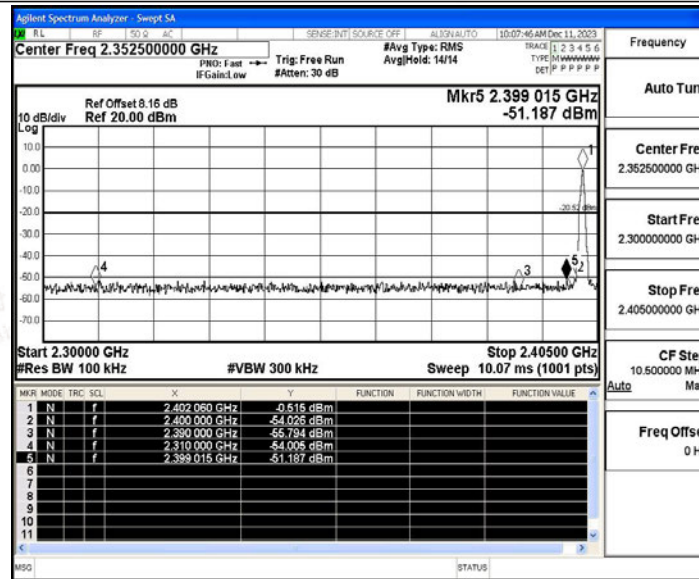
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.52	-51.19	≤-20.52	PASS
		High	2480	-0.62	-51.24	≤-20.62	PASS
		Low	Hop_2402	-0.32	-50.13	≤-20.32	PASS
		High	Hop_2480	0.24	-48.75	≤-19.76	PASS
2DH5	Ant1	Low	2402	-1.75	-51.17	≤-21.75	PASS
		High	2480	-2.04	-51.08	≤-22.04	PASS
		Low	Hop_2402	-1.07	-50.35	≤-21.07	PASS
		High	Hop_2480	-1.46	-48.68	≤-21.46	PASS
3DH5	Ant1	Low	2402	-4.43	-49.91	≤-24.43	PASS
		High	2480	-2.81	-50.27	≤-22.81	PASS
		Low	Hop_2402	-2.99	-49.67	≤-22.99	PASS
		High	Hop_2480	-0.61	-48.45	≤-20.61	PASS



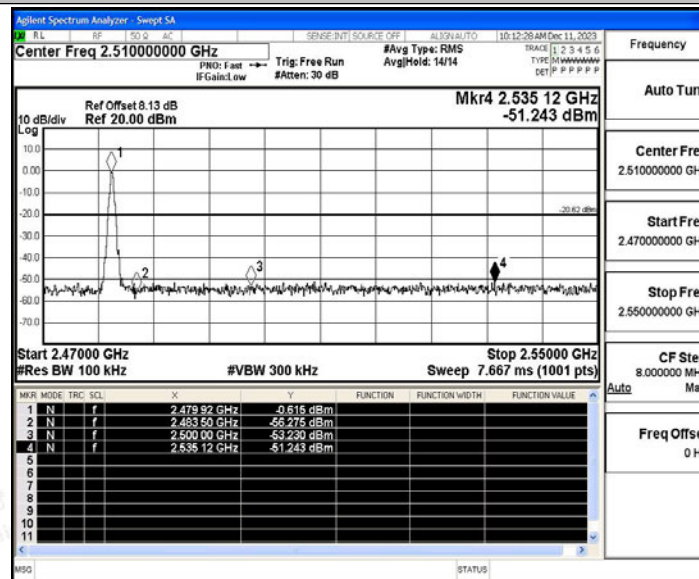


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

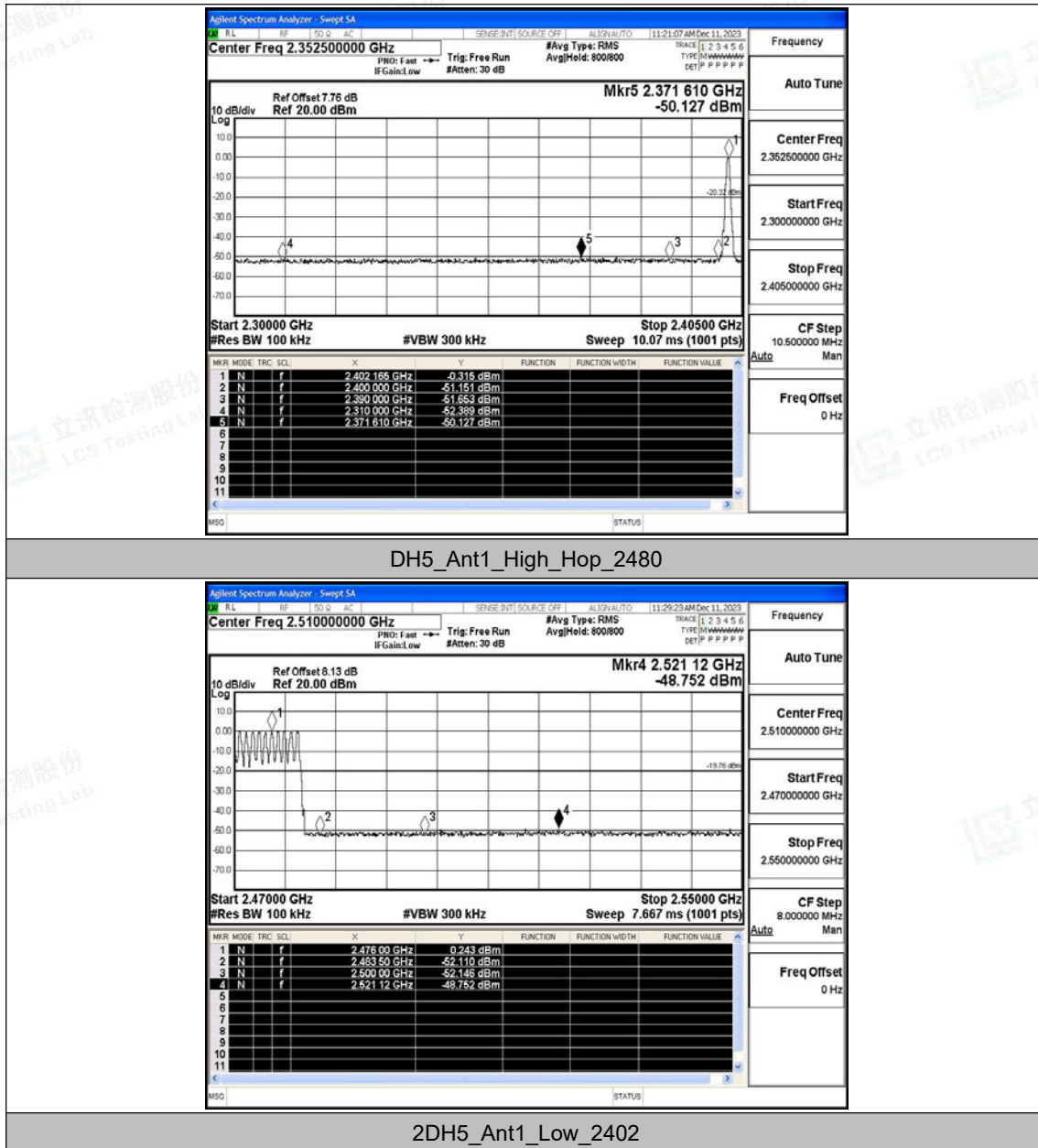


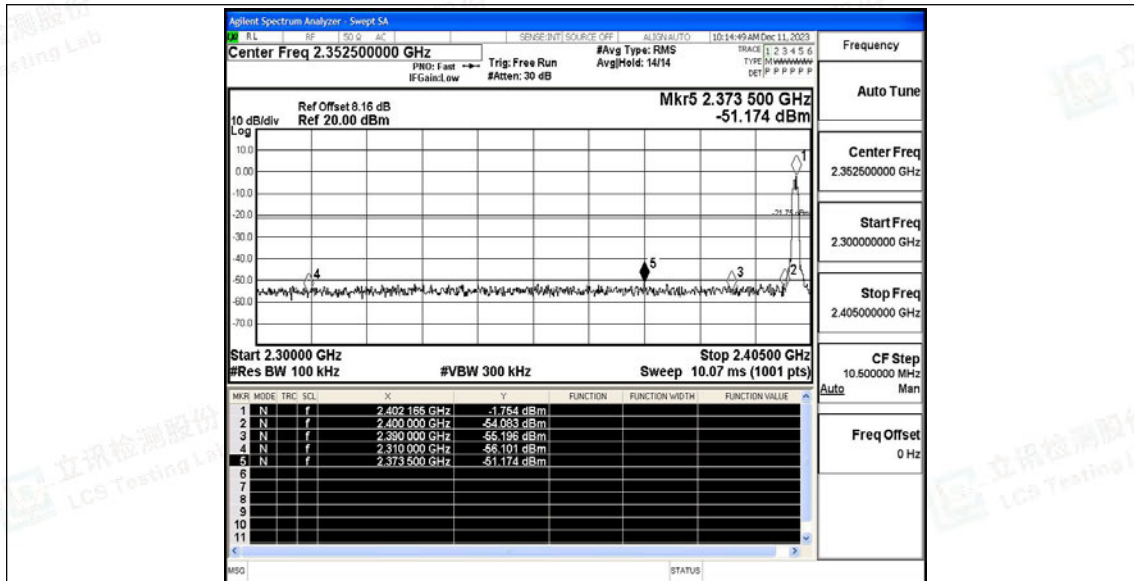
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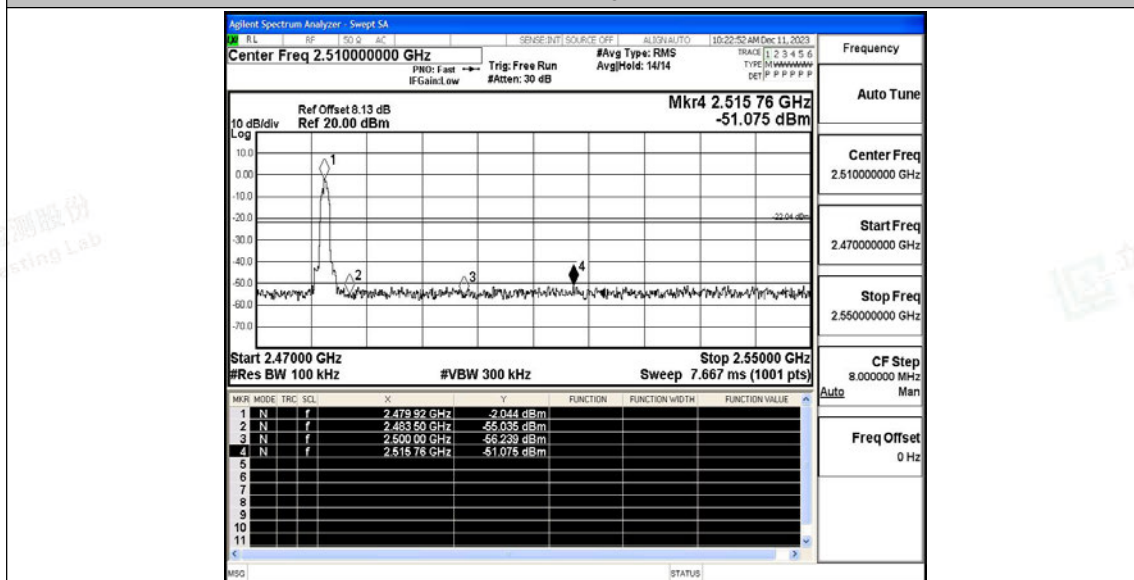
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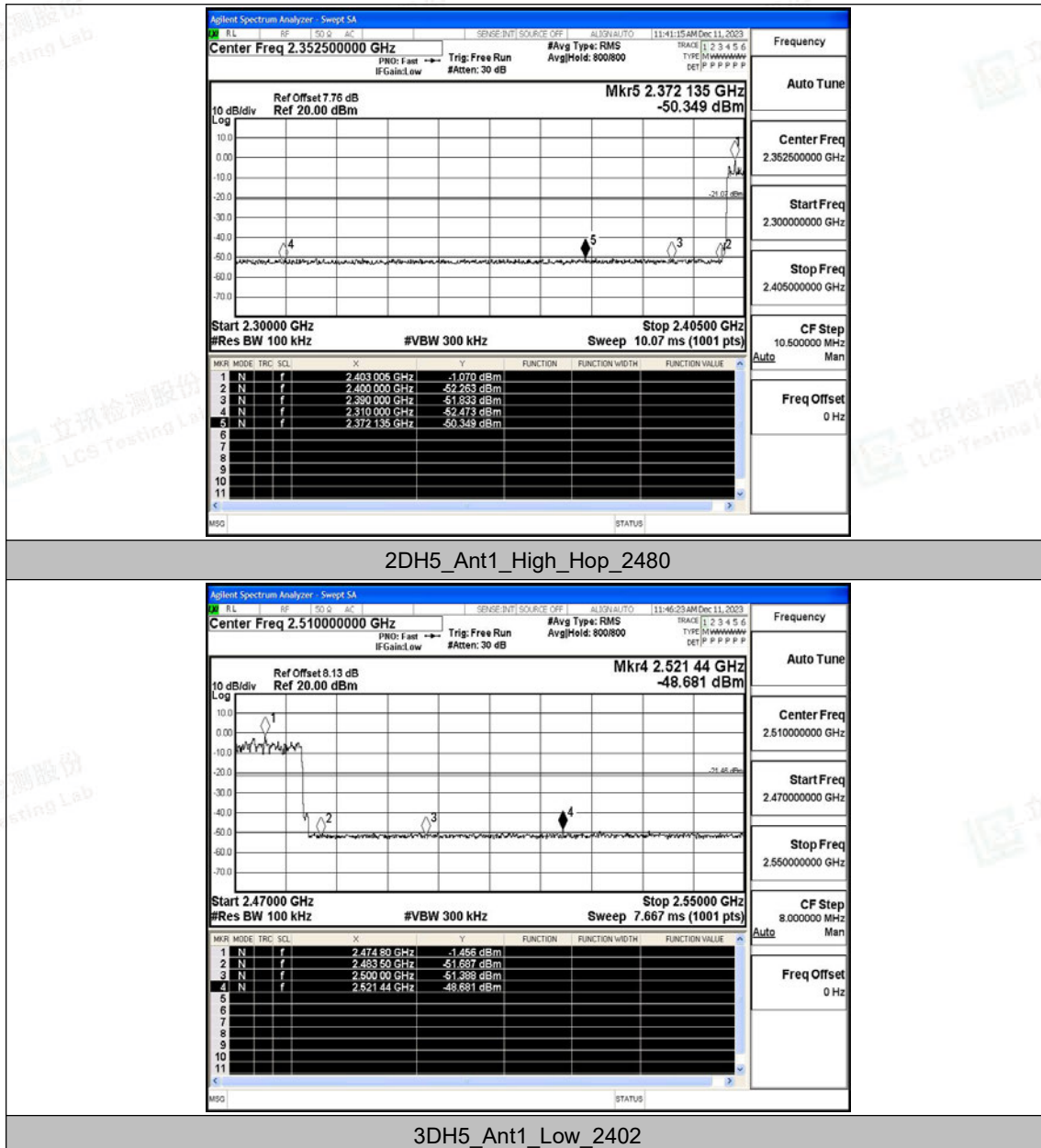


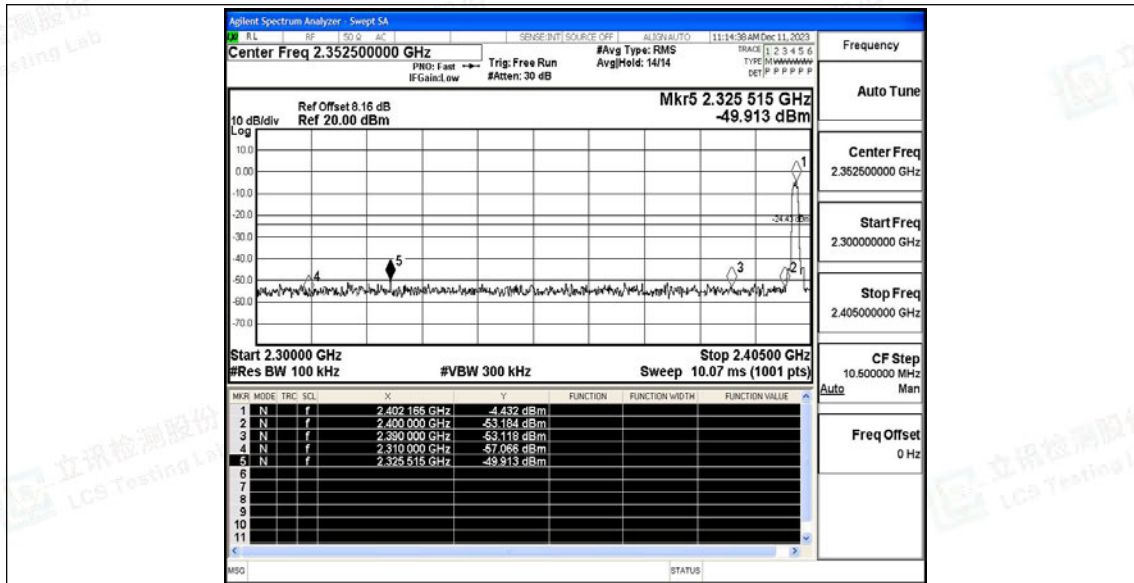
2DH5_Ant1_High_2480



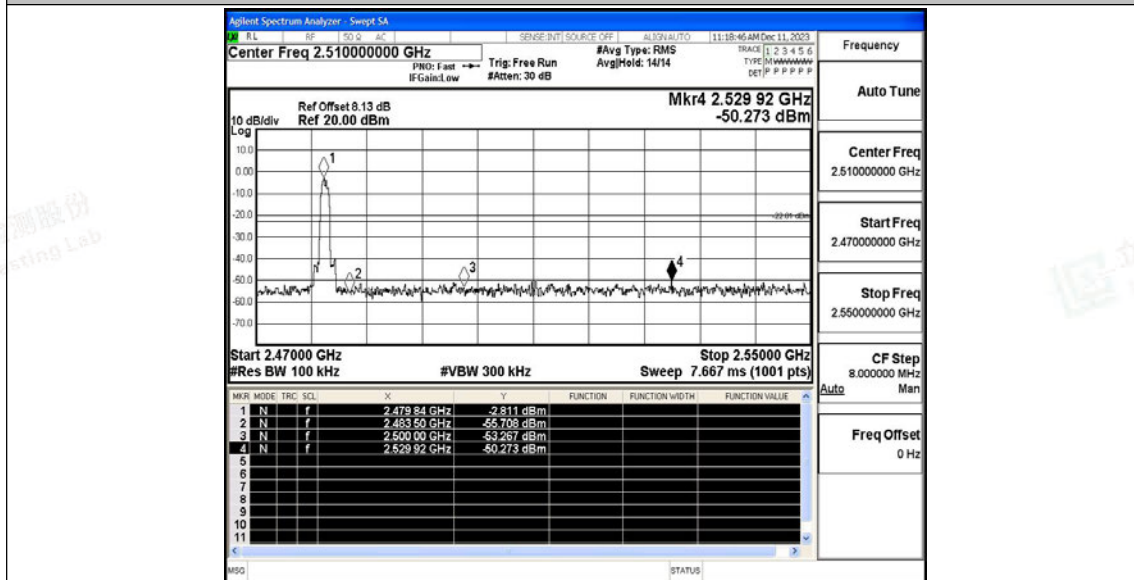
2DH5_Ant1_Low_Hop_2402





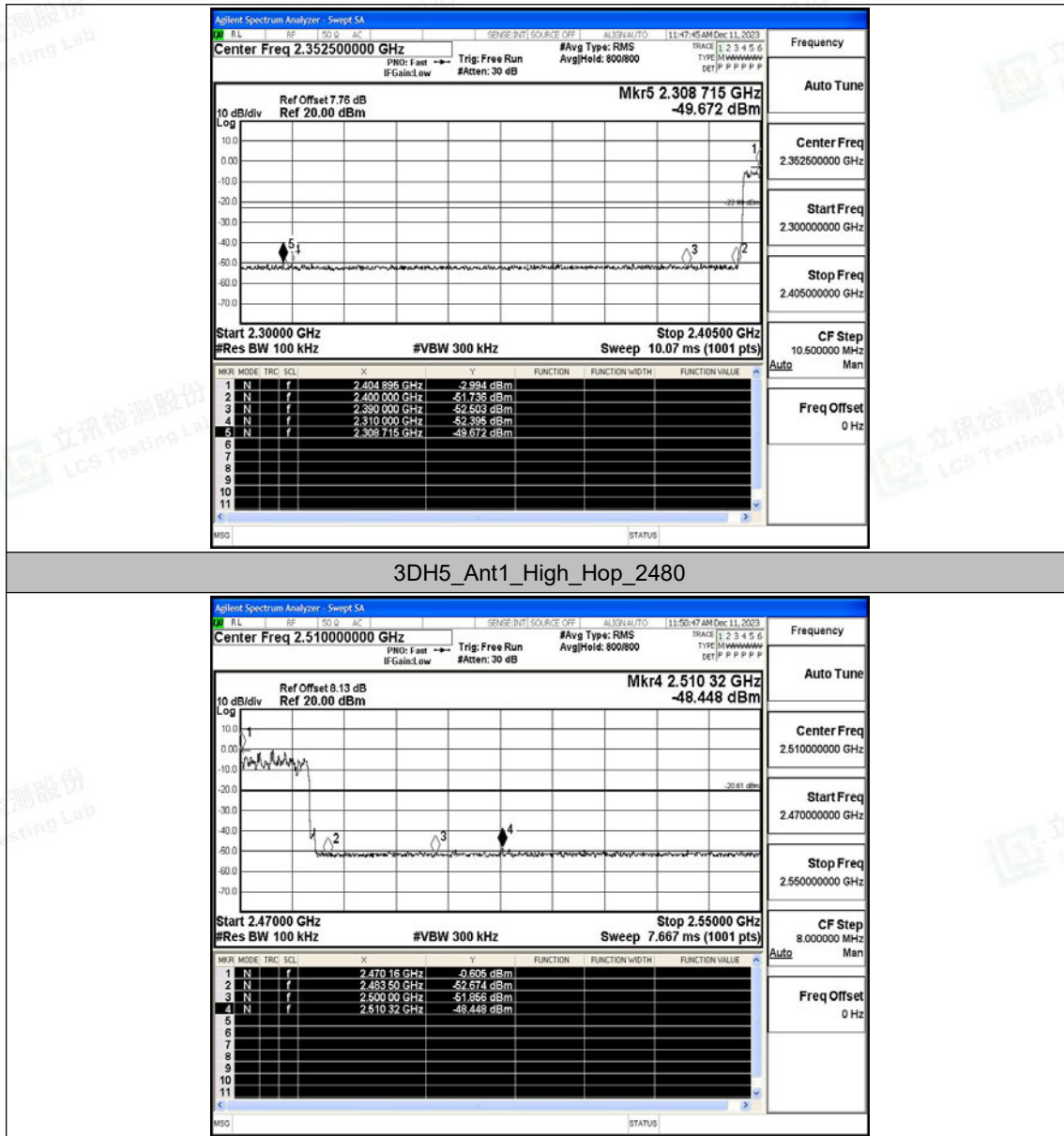


3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402







A.8 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.18	-0.18	---	PASS
			30~1000	-0.18	-61.22	≤-20.18	PASS
			1000~26500	-0.18	-48.78	≤-20.18	PASS
		2441	Reference	-0.10	-0.10	---	PASS
			30~1000	-0.10	-61.77	≤-20.1	PASS
			1000~26500	-0.10	-49.61	≤-20.1	PASS
		2480	Reference	0.06	0.06	---	PASS
			30~1000	0.06	-62.09	≤-19.94	PASS
			1000~26500	0.06	-49.17	≤-19.94	PASS
2DH5	Ant1	2402	Reference	-1.91	-1.91	---	PASS
			30~1000	-1.91	-61.29	≤-21.91	PASS
			1000~26500	-1.91	-49.31	≤-21.91	PASS
		2441	Reference	-1.85	-1.85	---	PASS
			30~1000	-1.85	-62.08	≤-21.85	PASS
			1000~26500	-1.85	-49.3	≤-21.85	PASS
		2480	Reference	-1.23	-1.23	---	PASS
			30~1000	-1.23	-61.33	≤-21.23	PASS
			1000~26500	-1.23	-49.61	≤-21.23	PASS
3DH5	Ant1	2402	Reference	-1.03	-1.03	---	PASS
			30~1000	-1.03	-61.56	≤-21.03	PASS
			1000~26500	-1.03	-49.16	≤-21.03	PASS
		2441	Reference	-0.85	-0.85	---	PASS
			30~1000	-0.85	-61.93	≤-20.85	PASS
			1000~26500	-0.85	-49.38	≤-20.85	PASS
		2480	Reference	-0.79	-0.79	---	PASS
			30~1000	-0.79	-60.88	≤-20.79	PASS
			1000~26500	-0.79	-48.07	≤-20.79	PASS



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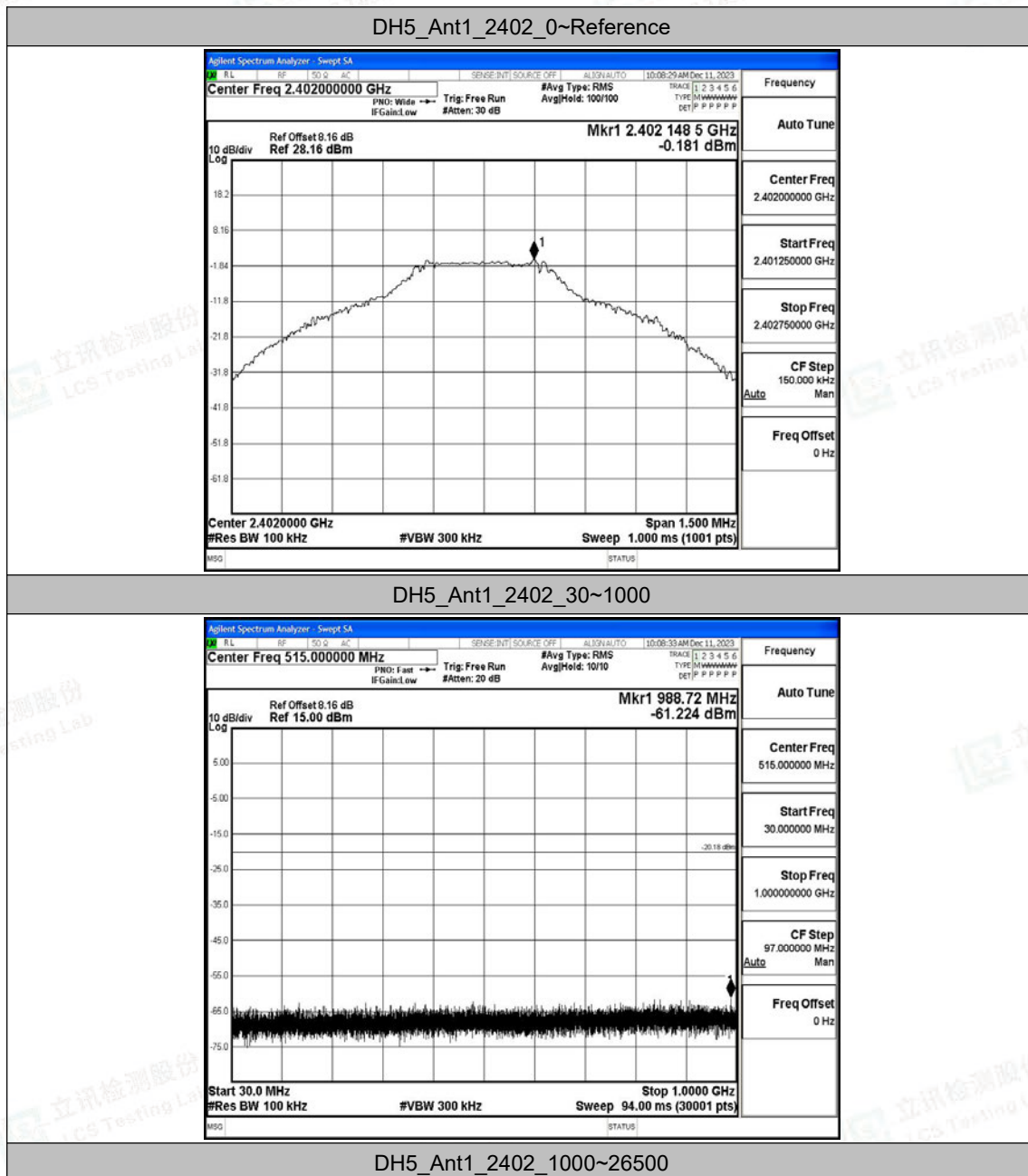
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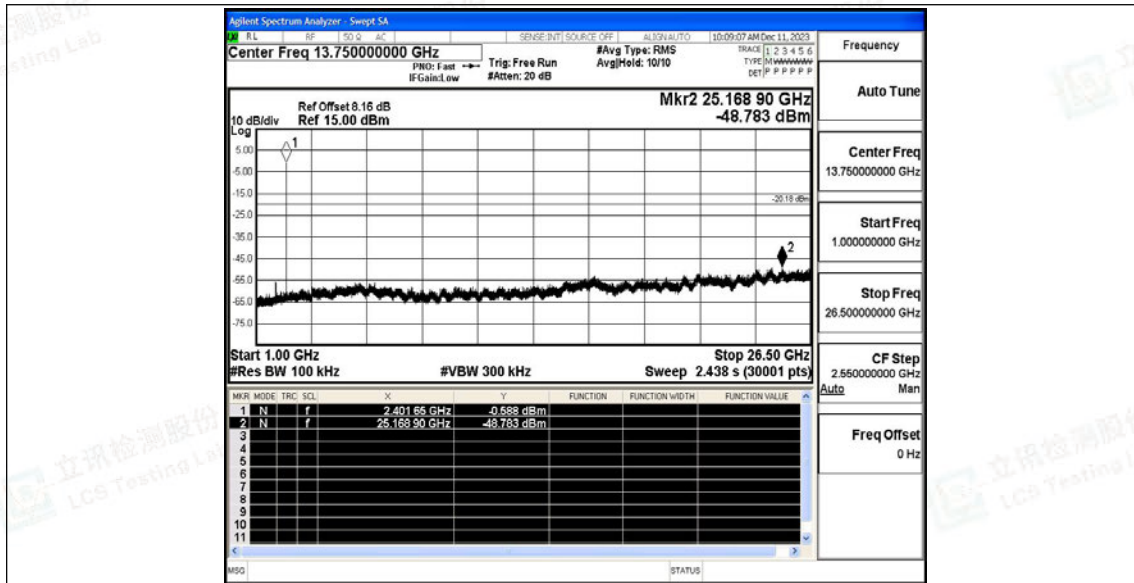
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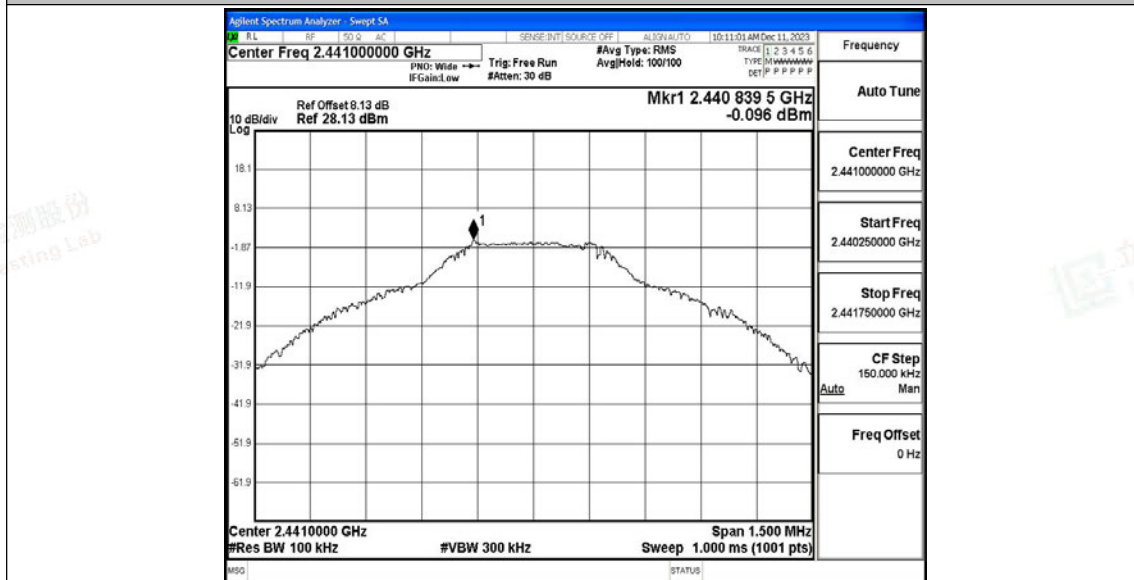


Test Graphs



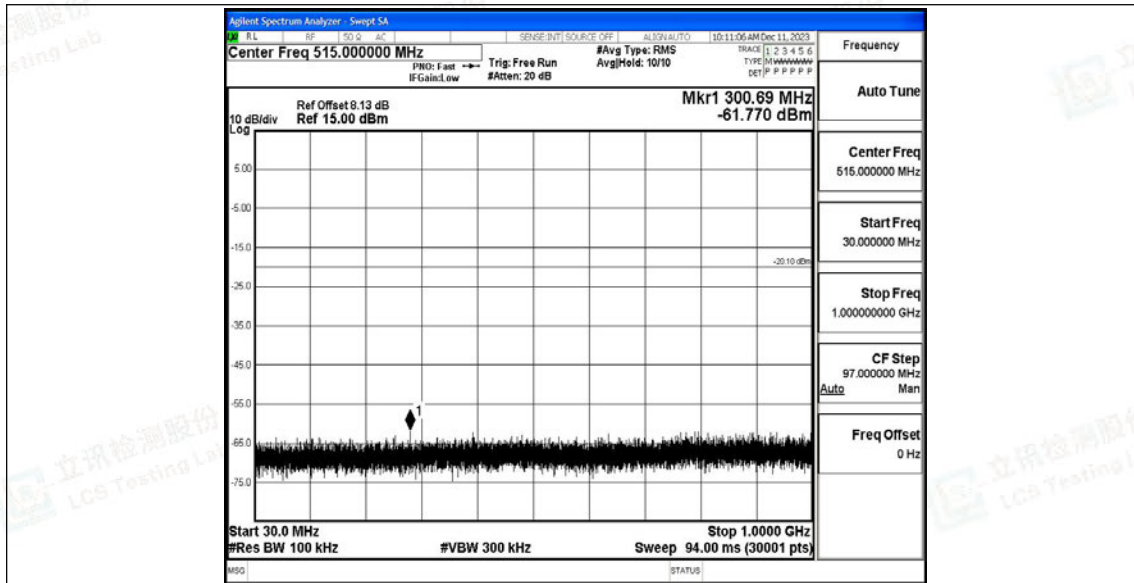


DH5_Ant1_2441_0~Reference

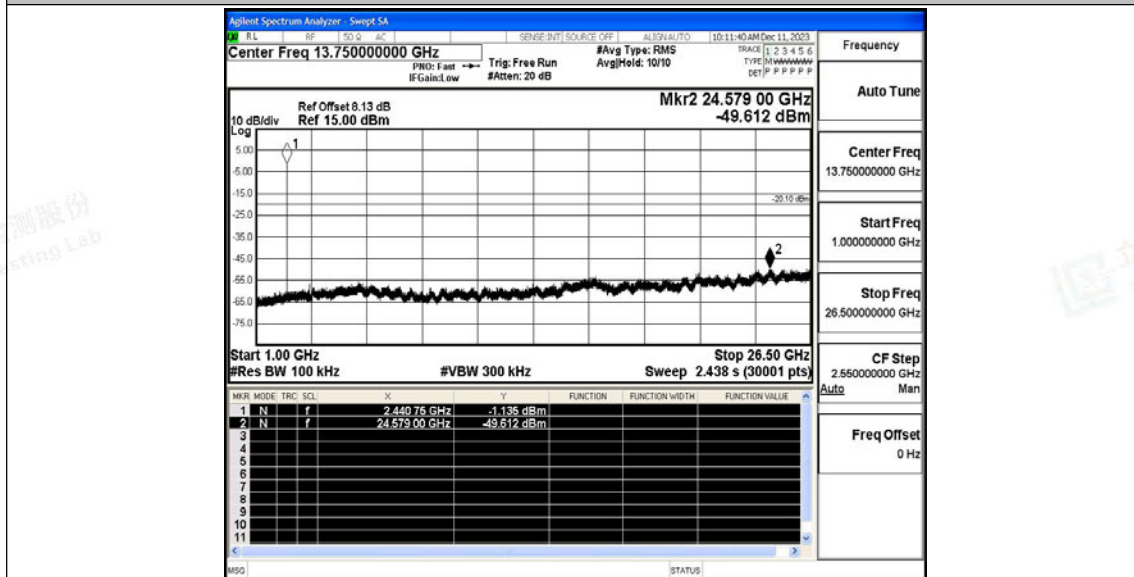


DH5_Ant1_2441_30~1000



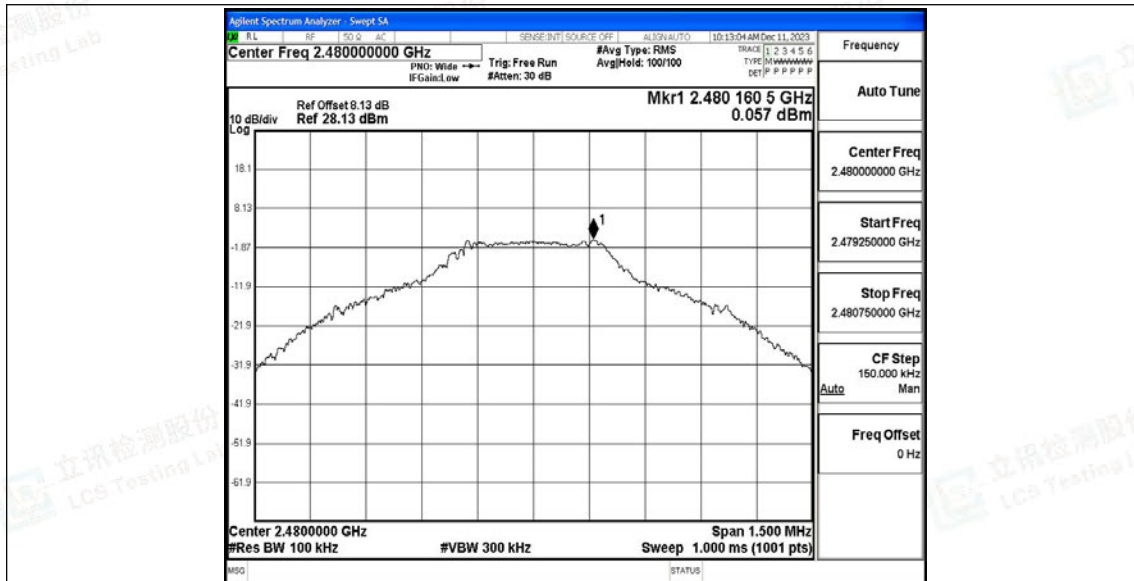


DH5_Ant1_2441_1000~26500

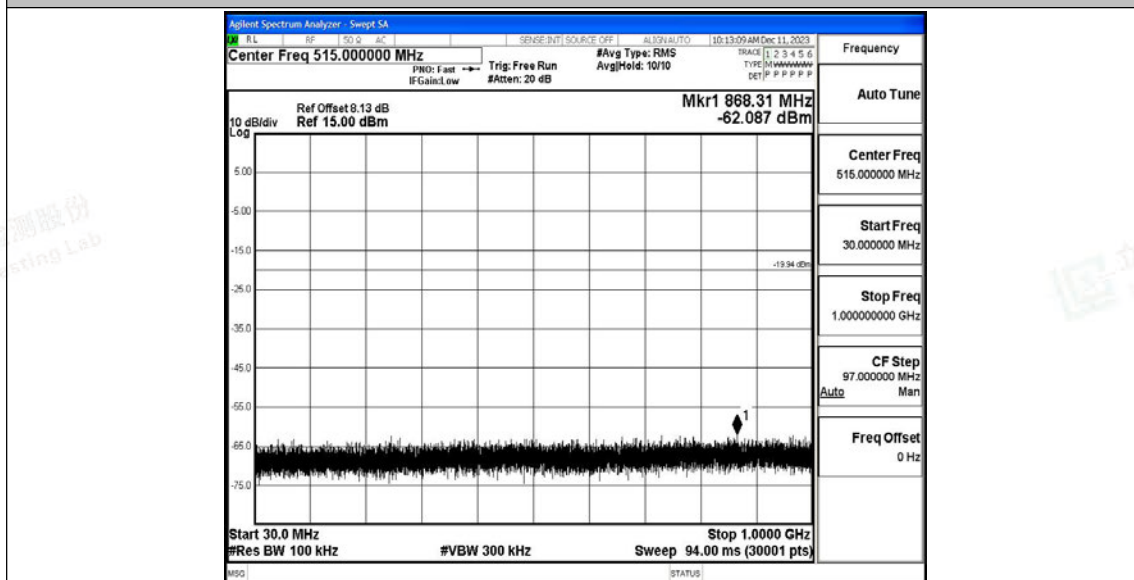


DH5_Ant1_2480_0~Reference



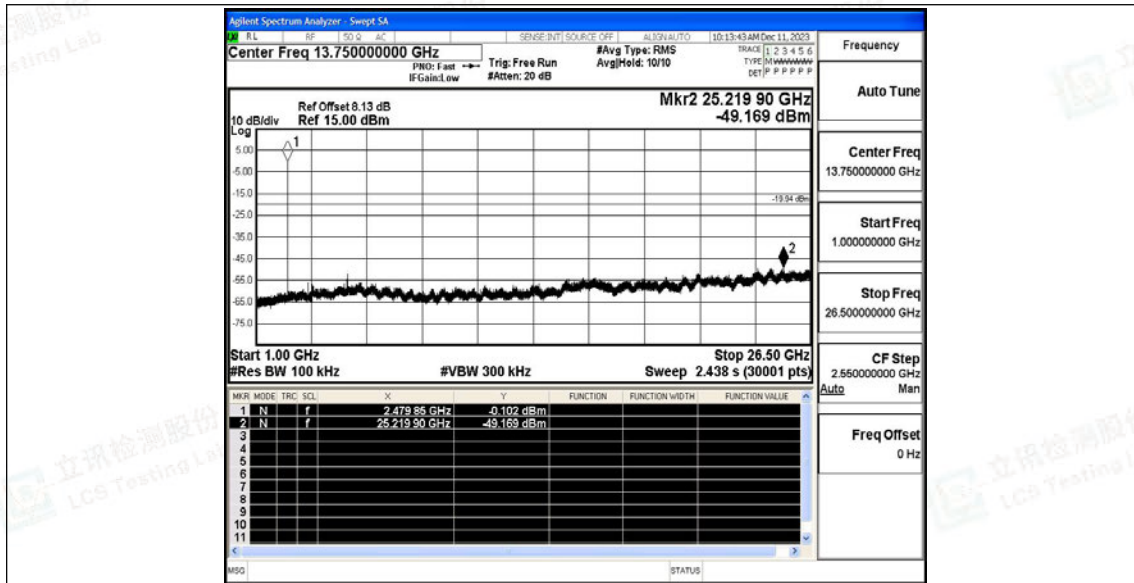


DH5_Ant1_2480_30~1000

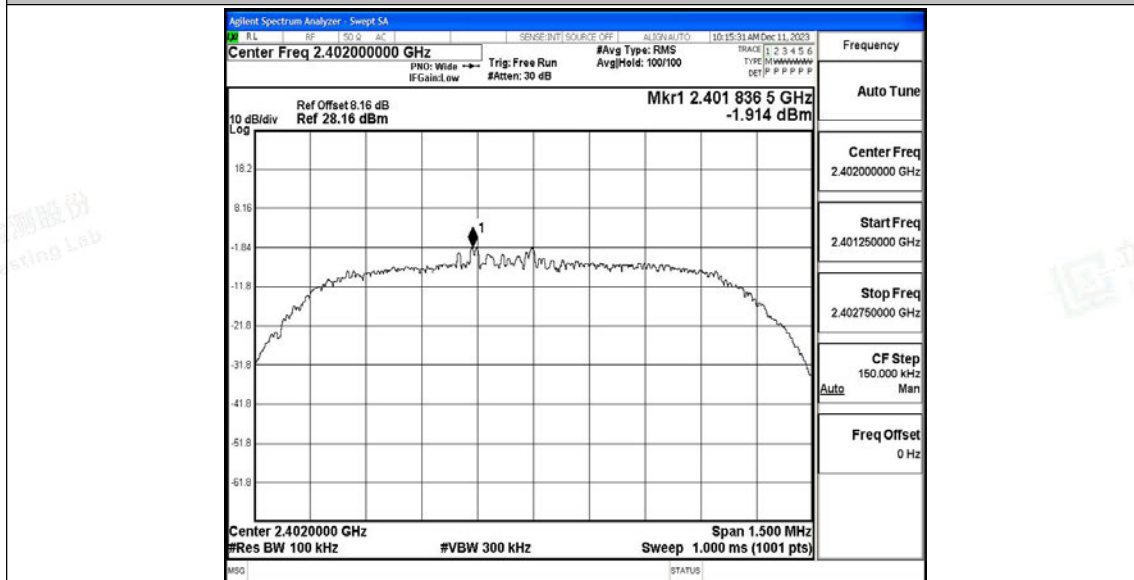


DH5_Ant1_2480_1000~26500





2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

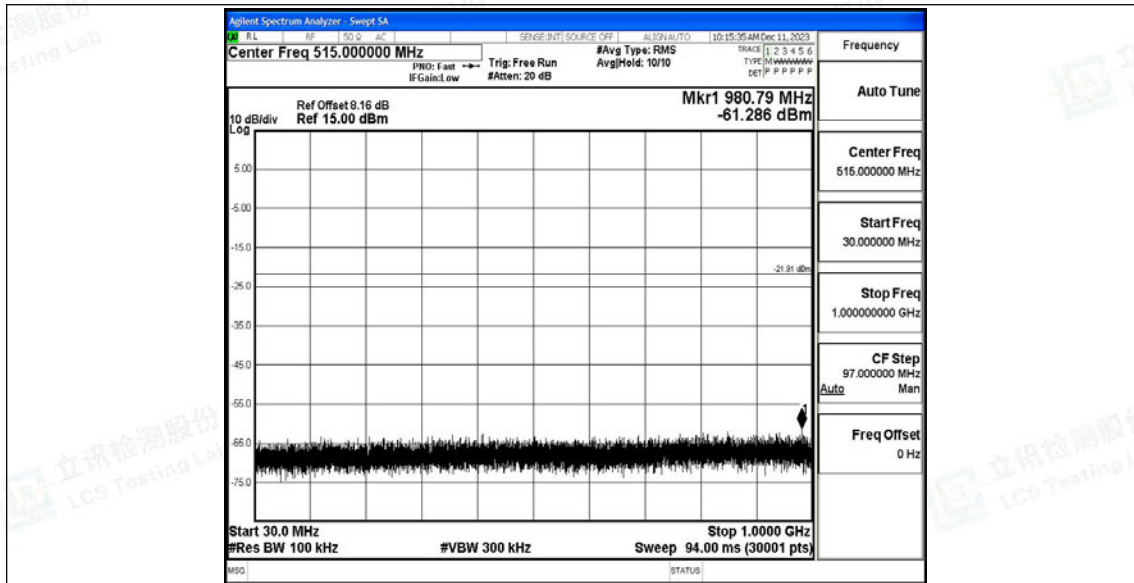


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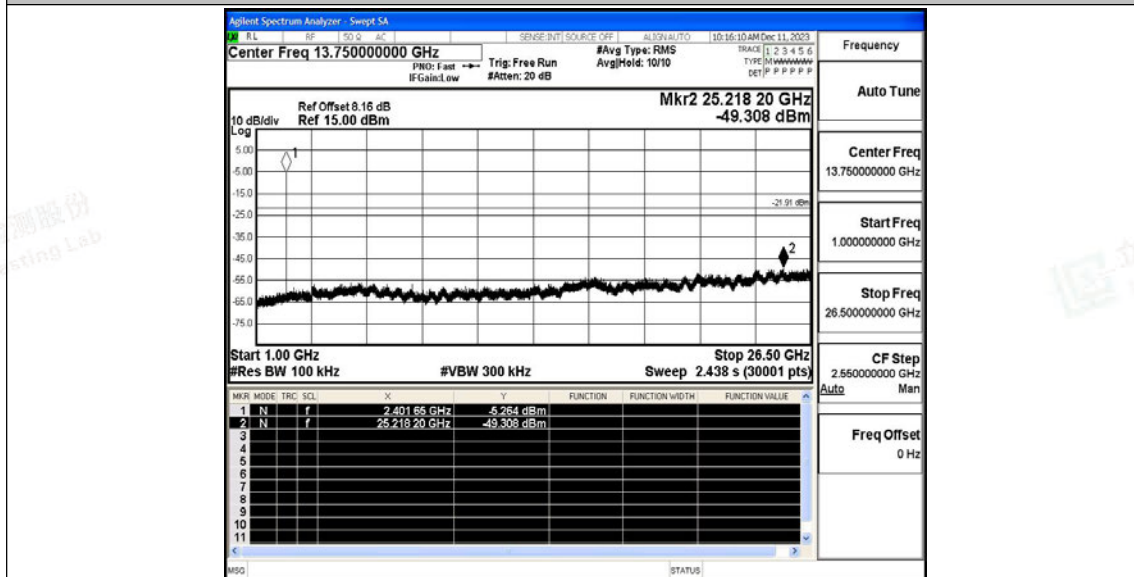
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