



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless lapel microphone

Test Model: K6

Environmental Conditions

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



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A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant	2402	1.035	2401.463	2402.498	---
		2441	1.041	2440.457	2441.498	---
		2480	1.035	2479.457	2480.492	---
2DH5	Ant	2402	1.287	2401.355	2402.642	---
		2441	1.293	2440.352	2441.645	---
		2480	1.284	2479.358	2480.642	---
3DH5	Ant	2402	1.296	2401.340	2402.636	---
		2441	1.308	2440.337	2441.645	---
		2480	1.296	2479.340	2480.636	---



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Test Graphs

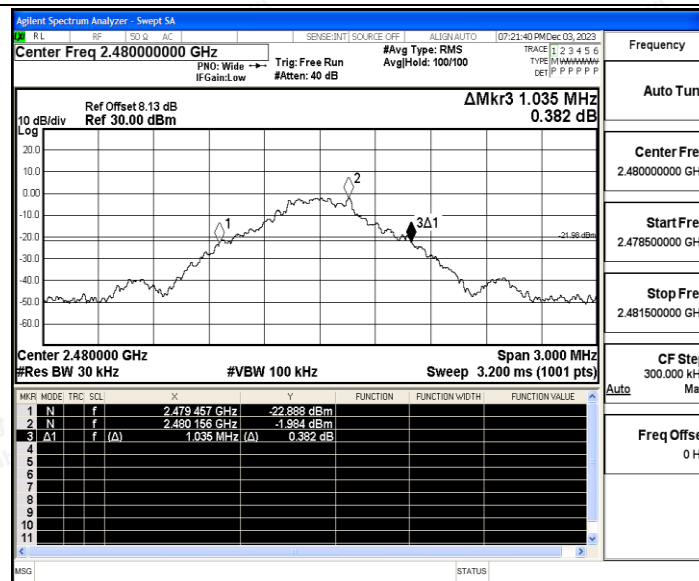


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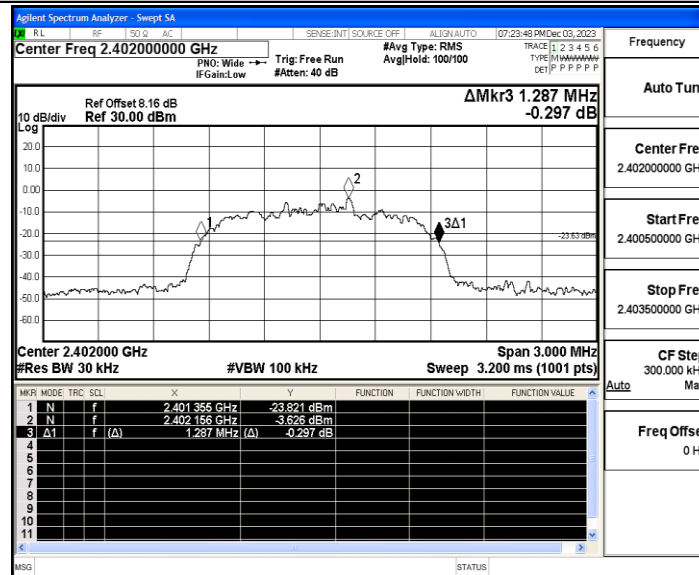
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2DH5_Ant_2402



2DH5_Ant_2441

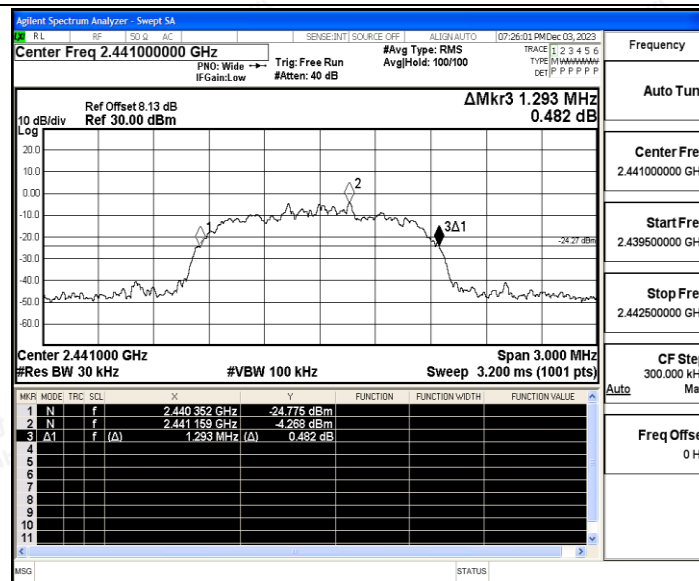


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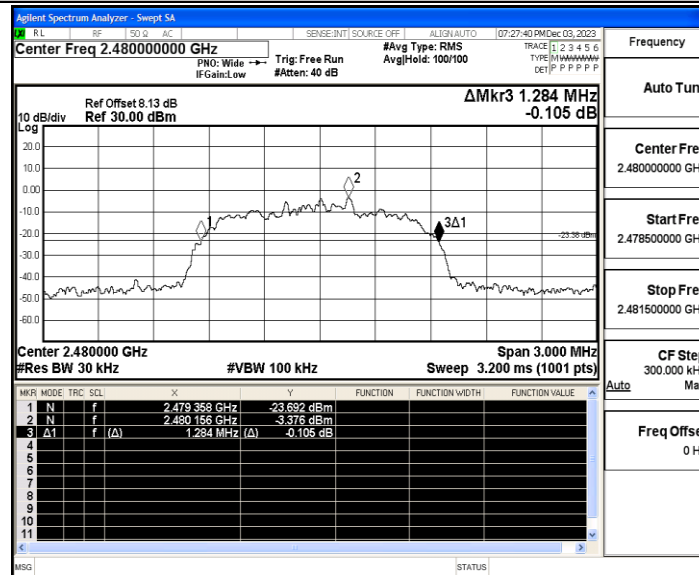
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2DH5_Ant_2480



3DH5_Ant_2402

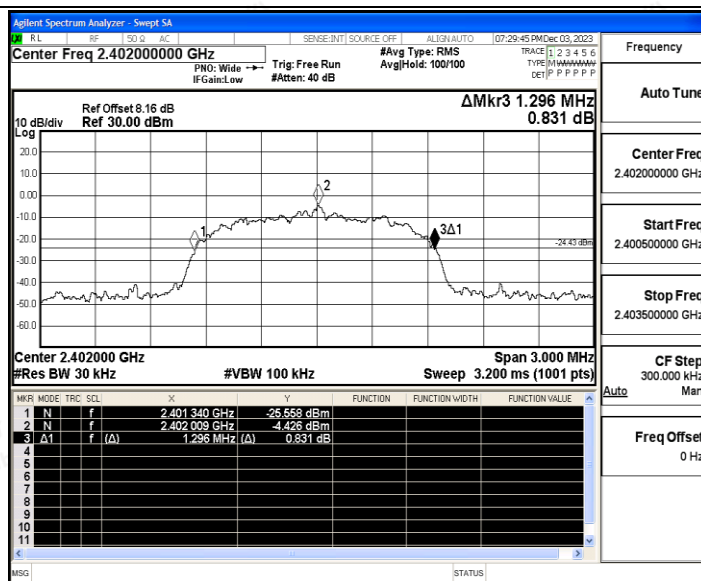


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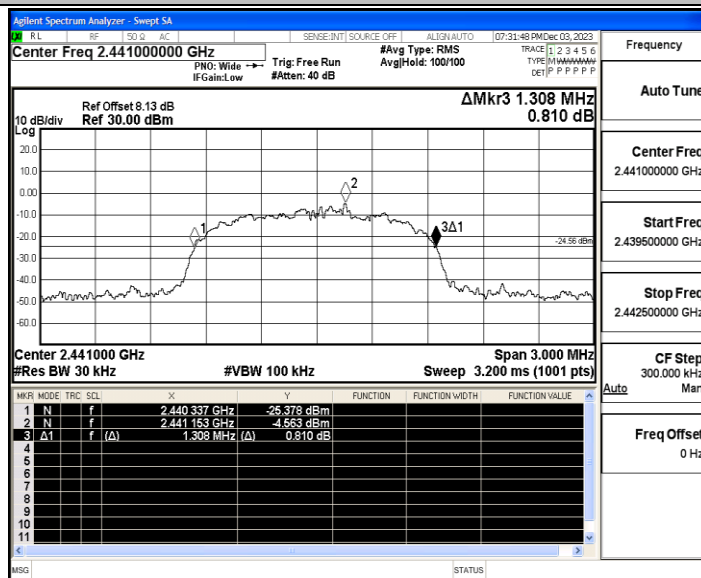
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3DH5_Ant_2441



3DH5_Ant_2480

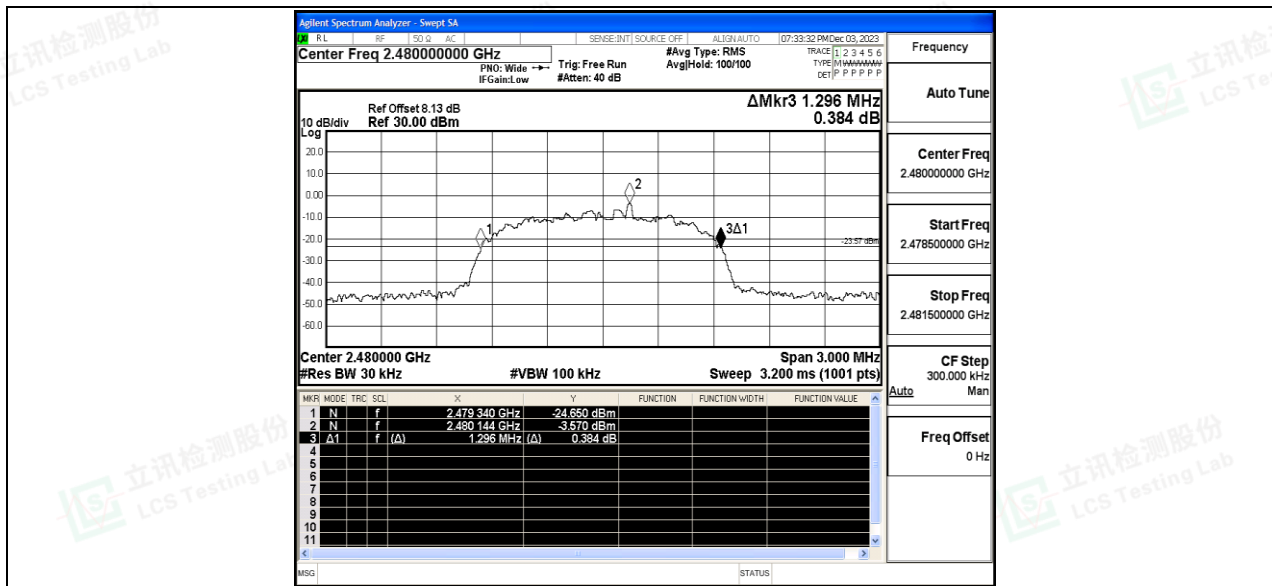


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A.2 Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant	2402	0.90499	2401.5455	2402.4505	---	---
		2441	0.89648	2440.5468	2441.4432	---	---
		2480	0.91755	2479.5353	2480.4528	---	---
2DH5	Ant	2402	1.1830	2401.3991	2402.5821	---	---
		2441	1.1821	2440.3995	2441.5816	---	---
		2480	1.1917	2479.3940	2480.5857	---	---
3DH5	Ant	2402	1.1869	2401.3980	2402.5849	---	---
		2441	1.1837	2440.4011	2441.5848	---	---
		2480	1.1862	2479.3986	2480.5848	---	---



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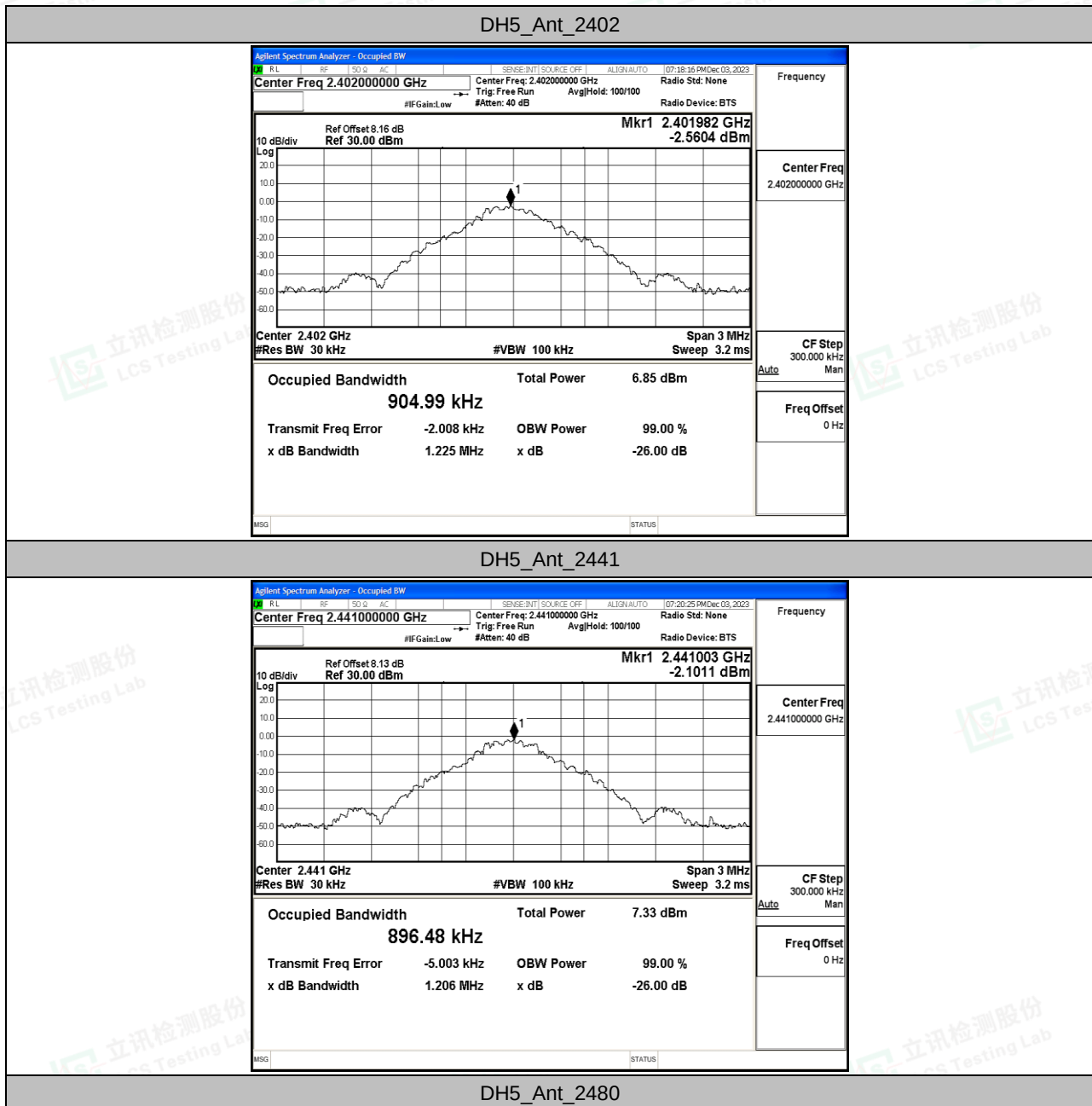
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Test Graphs

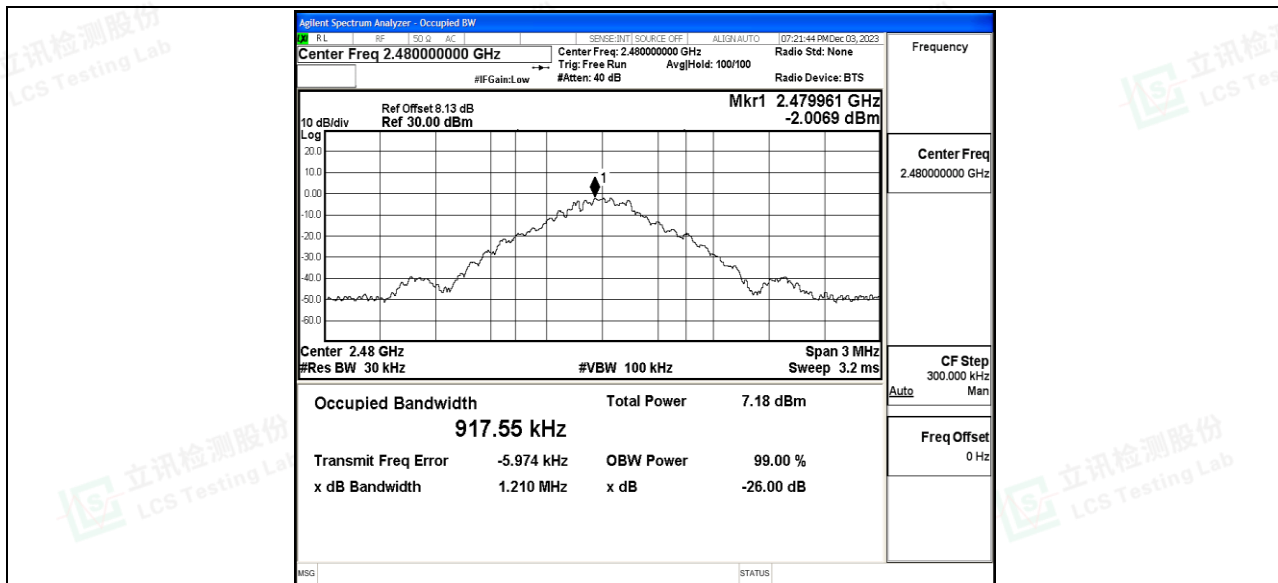


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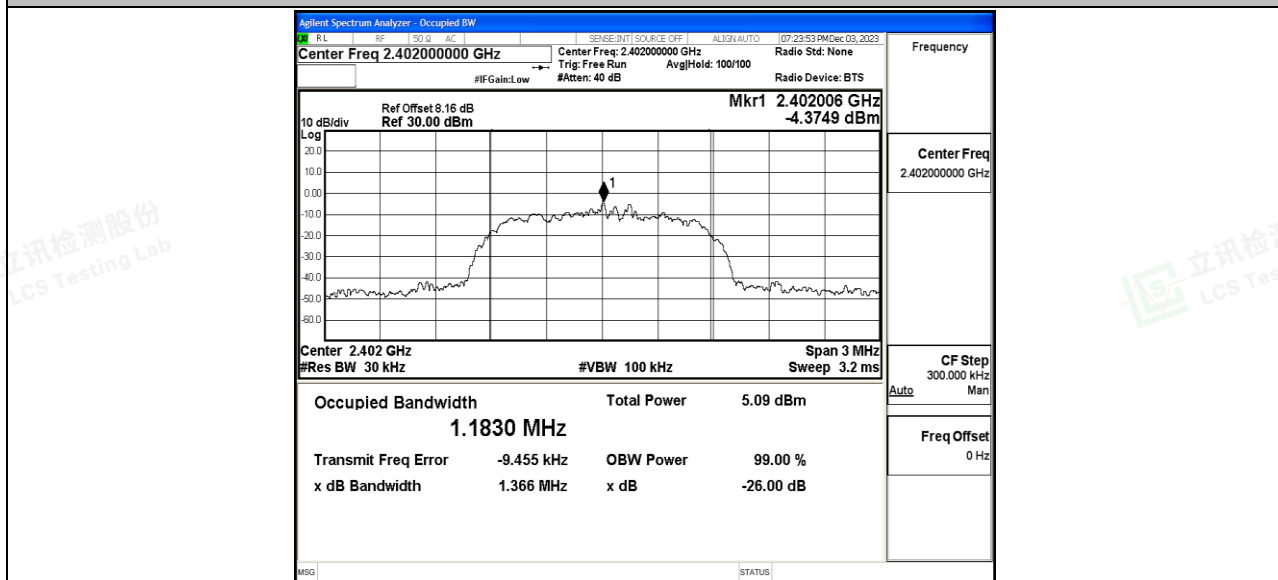
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2DH5_Ant_2402



2DH5_Ant_2441

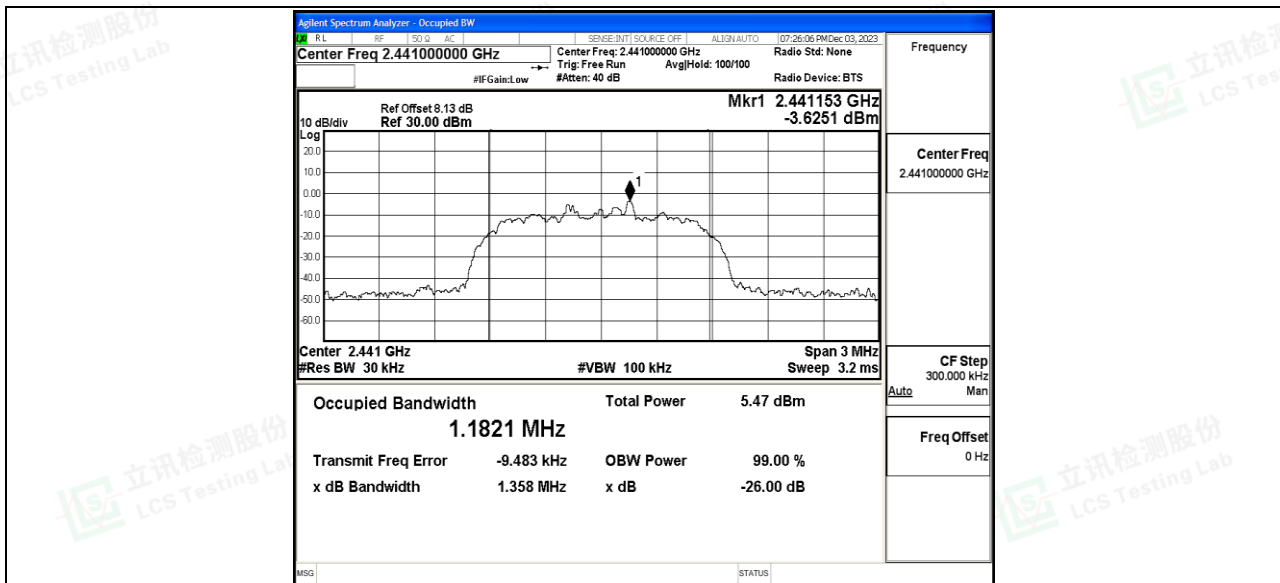


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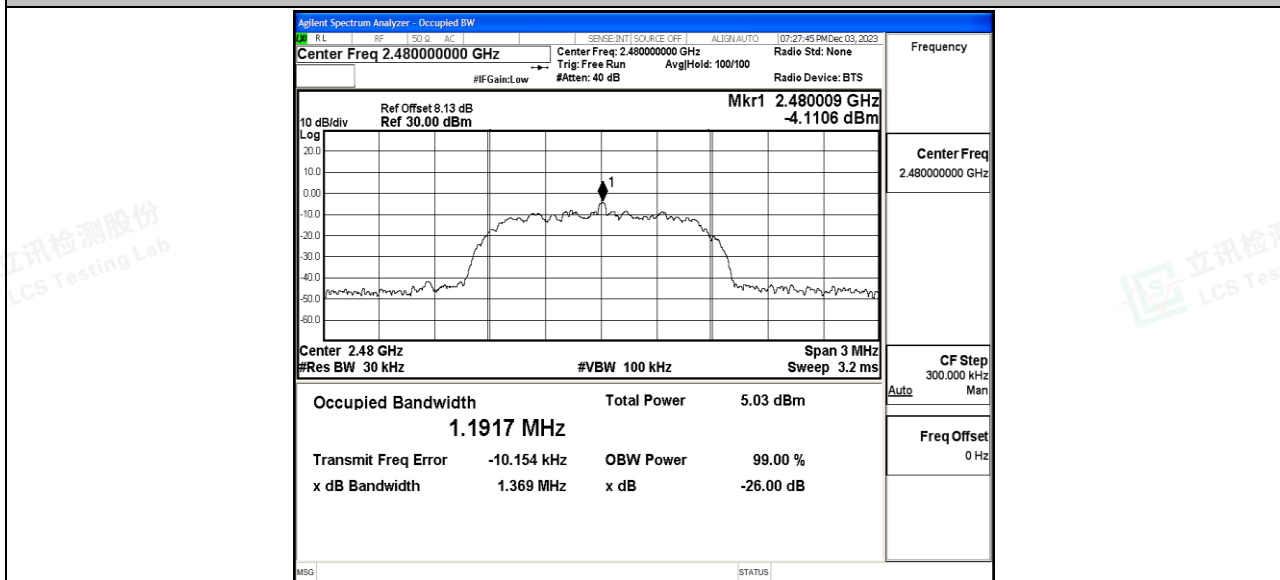
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2DH5_Ant_2480



3DH5_Ant_2402

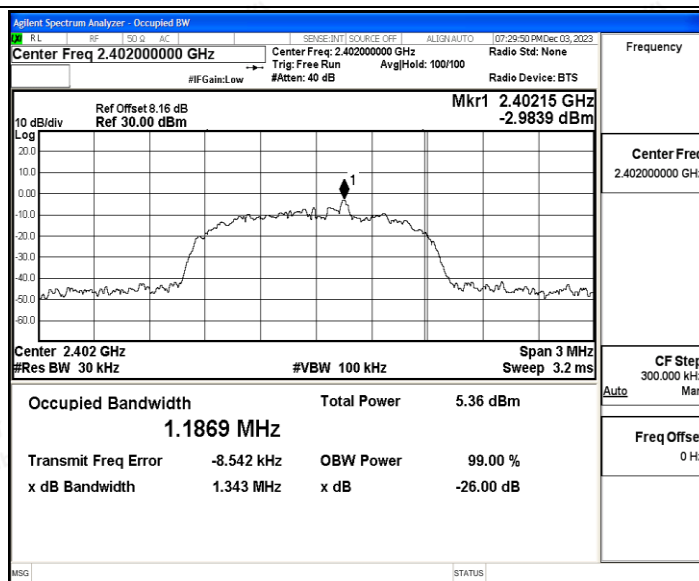


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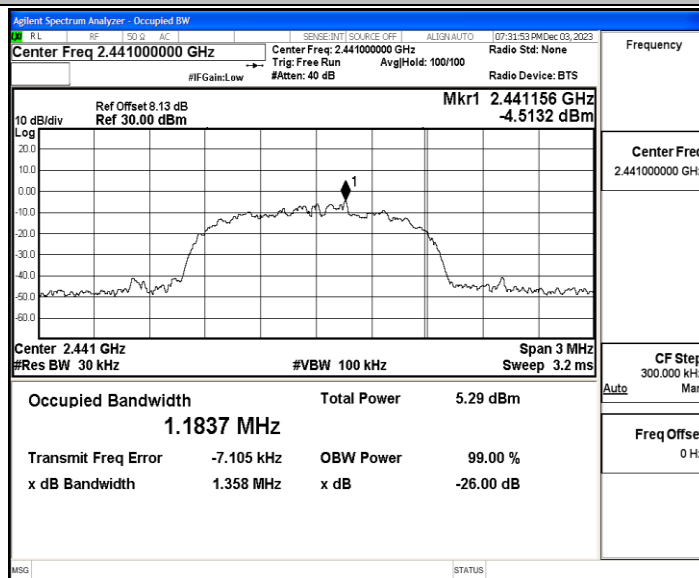
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3DH5_Ant_2441



3DH5_Ant_2480

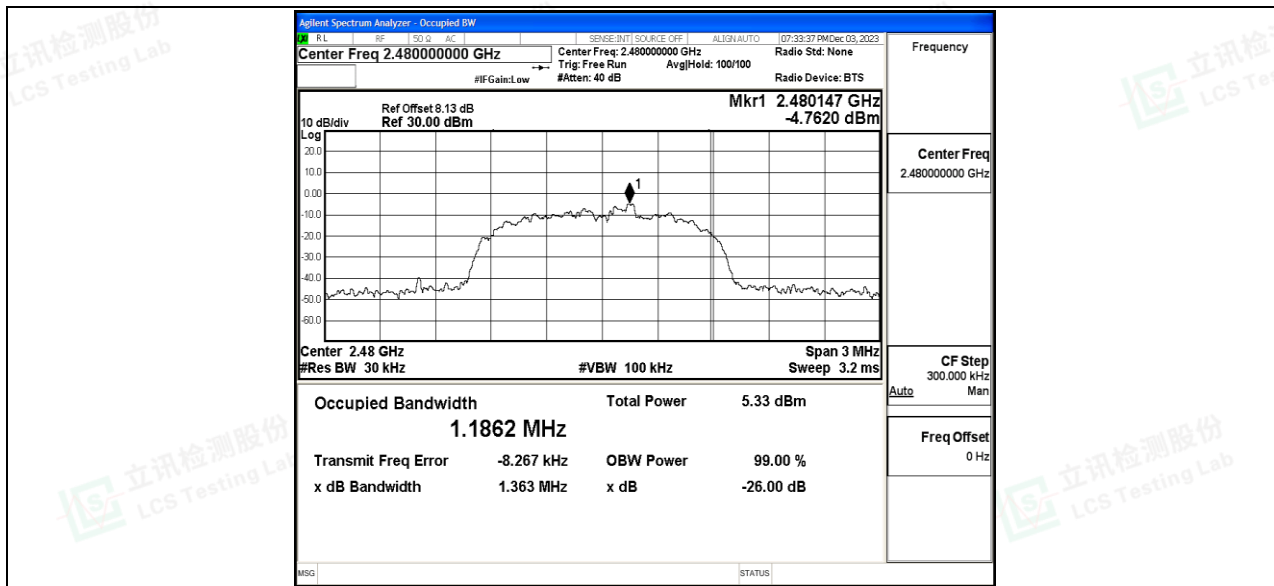


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A.3 Maximum peak conducted output power and EIRP

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Antenna Gain	Report EIRP Power(dBm)	Limit (dBm)	Verdict
DH5	Ant	2402	0.72	≤20.97	2.2	2.92	36	PASS
		2441	0.86	≤20.97	2.2	3.06	36	PASS
		2480	1.04	≤20.97	2.2	3.24	36	PASS
2DH5	Ant	2402	0.48	≤20.97	2.2	2.68	36	PASS
		2441	0.64	≤20.97	2.2	2.84	36	PASS
		2480	0.72	≤20.97	2.2	2.92	36	PASS
3DH5	Ant	2402	0.54	≤20.97	2.2	2.74	36	PASS
		2441	0.67	≤20.97	2.2	2.87	36	PASS
		2480	0.79	≤20.97	2.2	2.99	36	PASS



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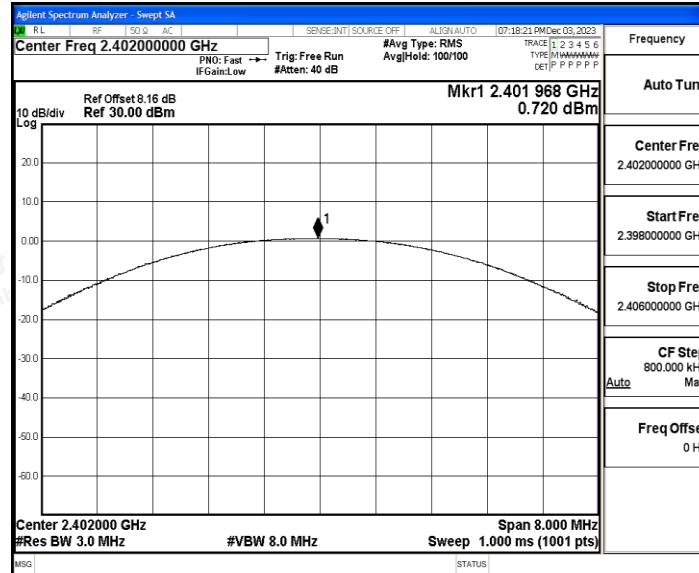
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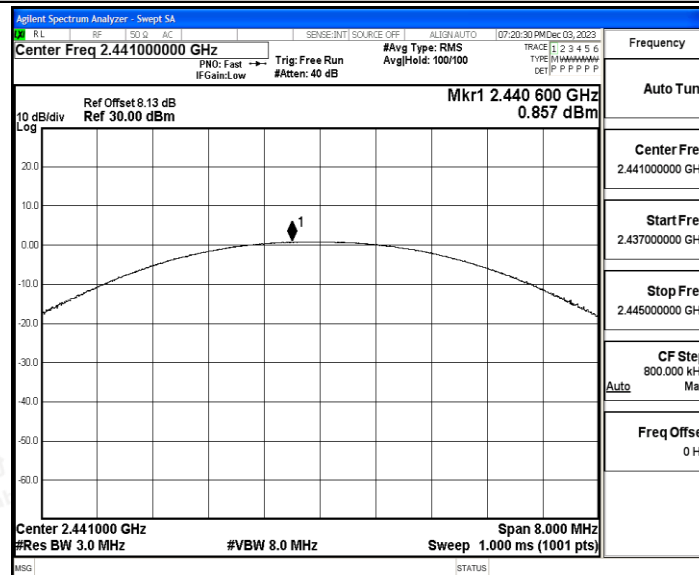


Test Graphs

DH5_Ant_2402



DH5_Ant_2441



DH5_Ant_2480

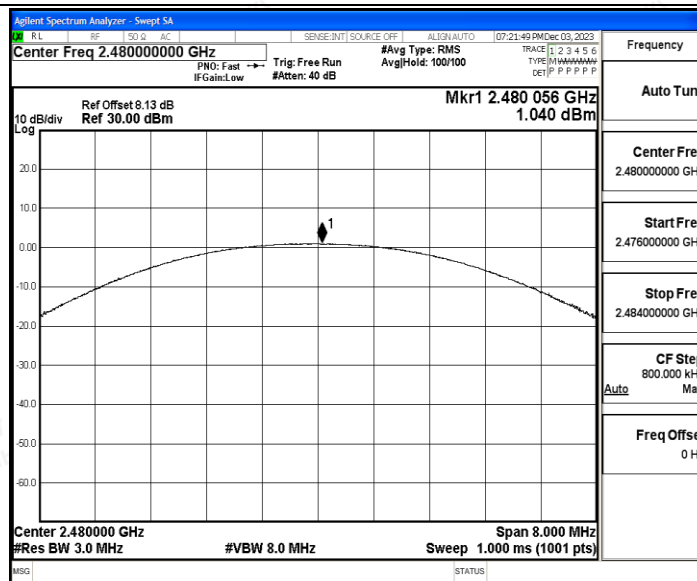


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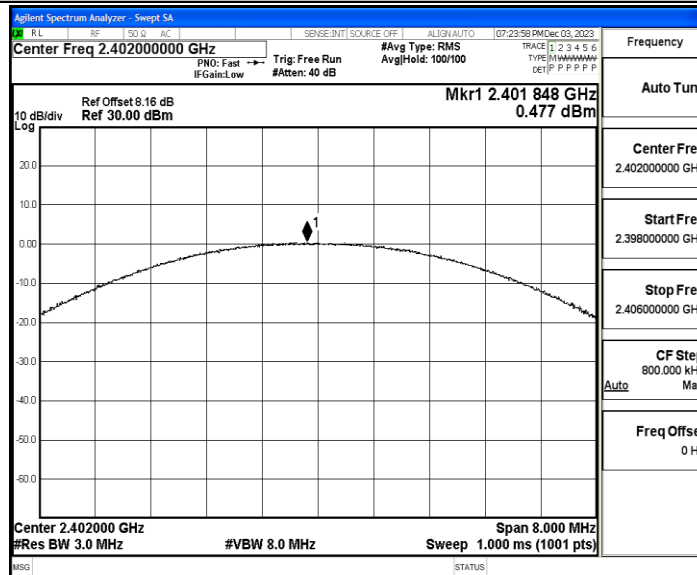
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2DH5_Ant_2402



2DH5_Ant_2441

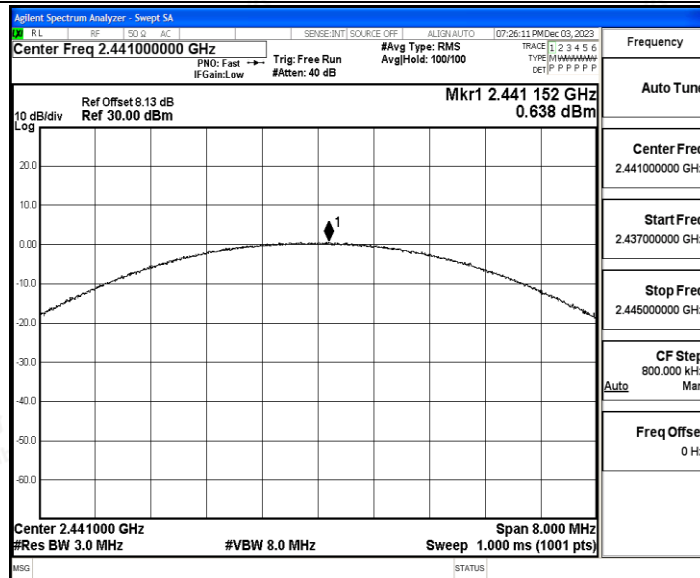


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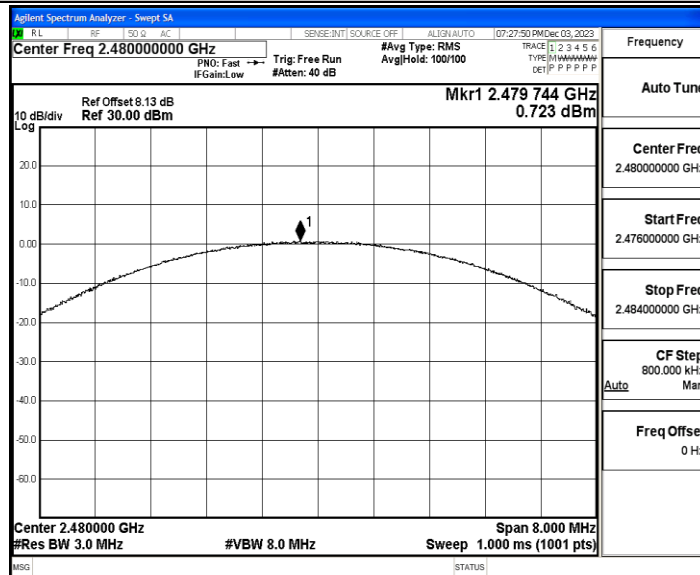
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2DH5_Ant_2480



3DH5_Ant_2402

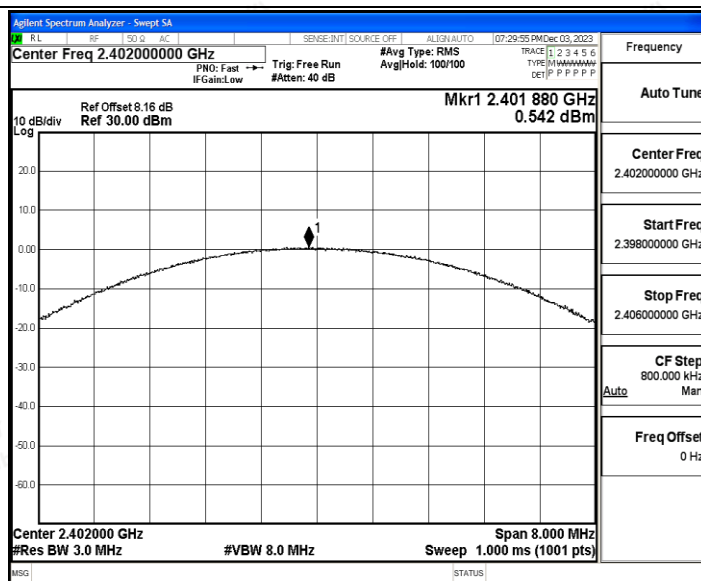


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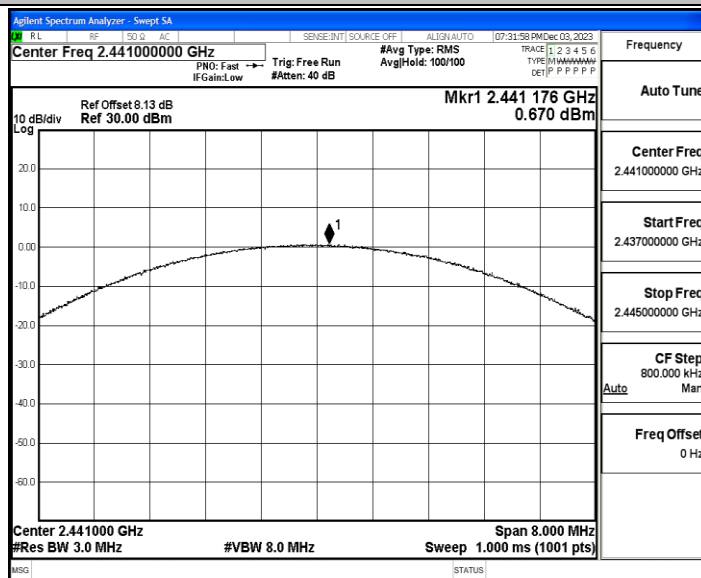
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3DH5_Ant_2441



3DH5_Ant_2480

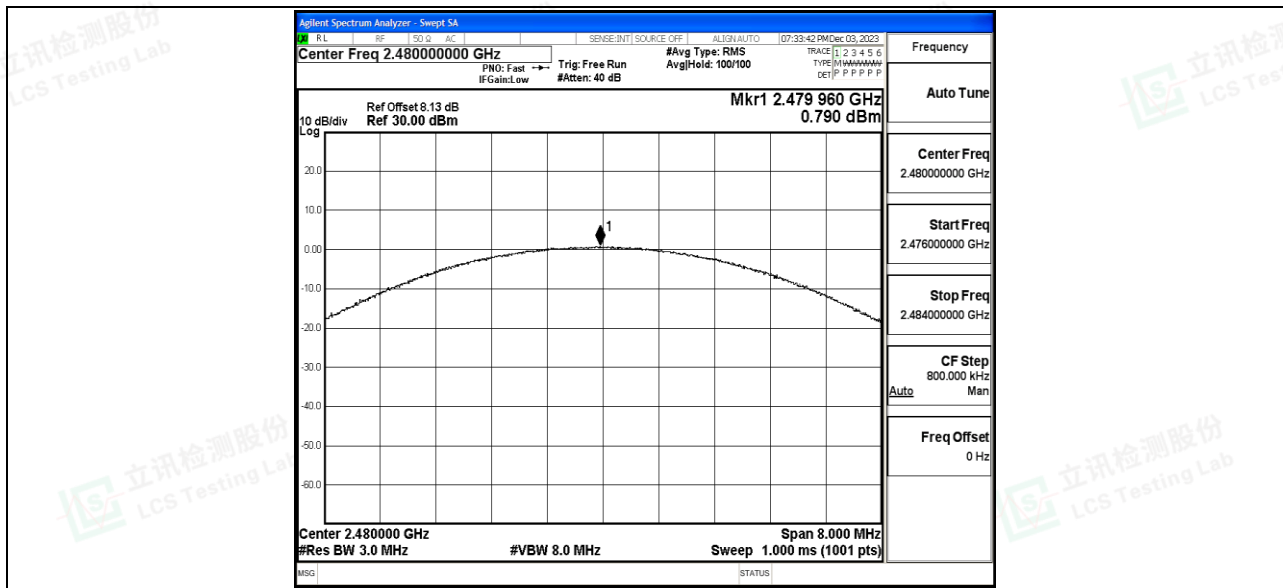


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A.4 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant	Hop	1.188	≥ 0.694	PASS
2DH5	Ant	Hop	0.948	≥ 0.862	PASS
3DH5	Ant	Hop	1.002	≥ 0.872	PASS



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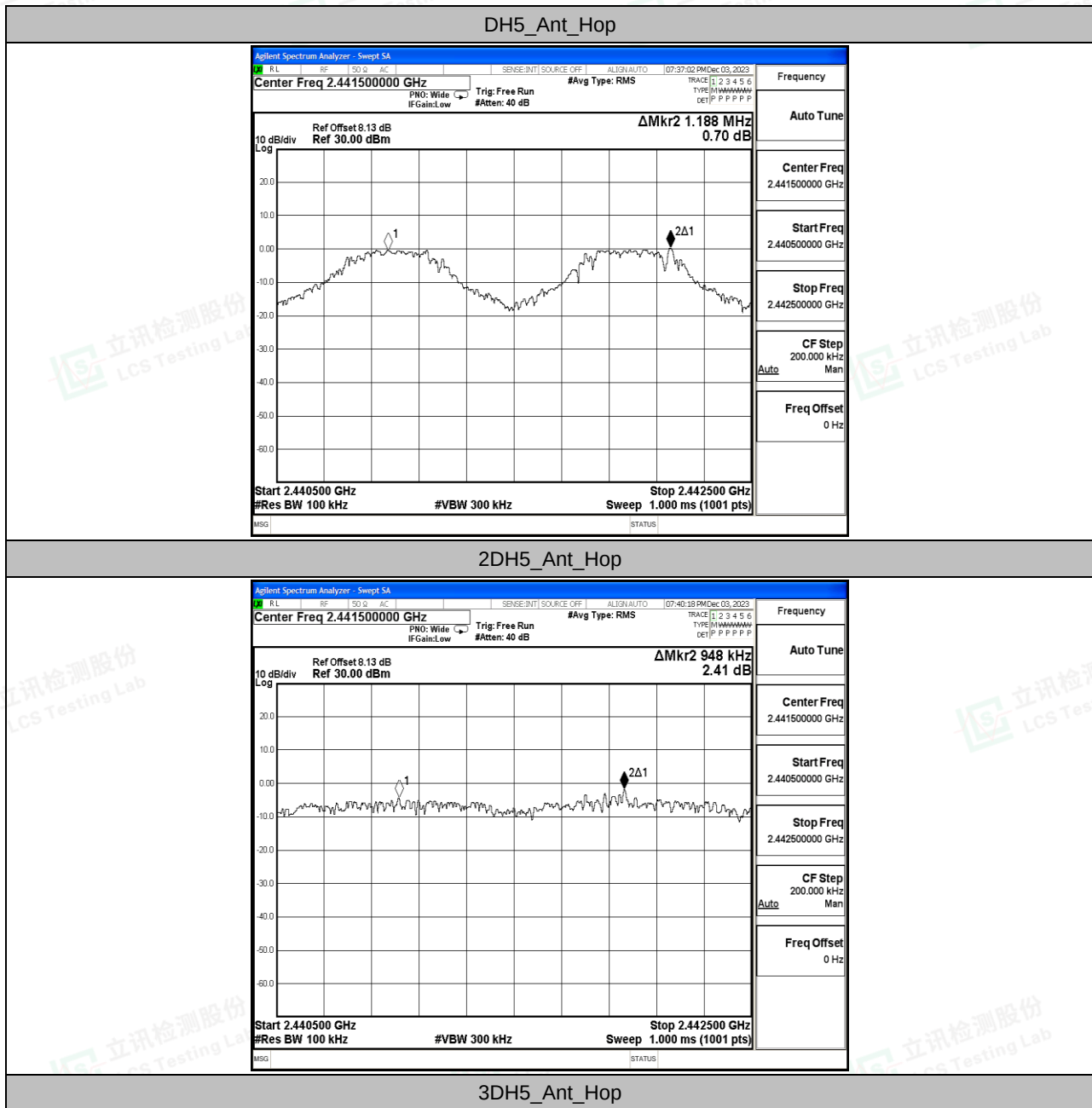
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Test Graphs

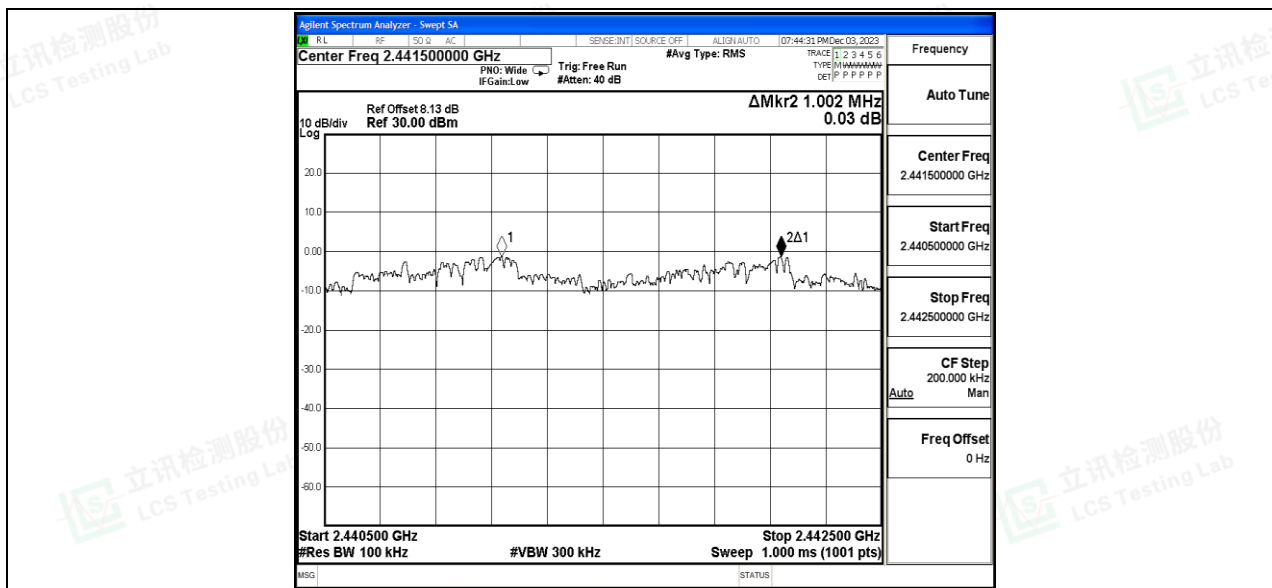


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A.5 Time of occupancy

Test Result

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



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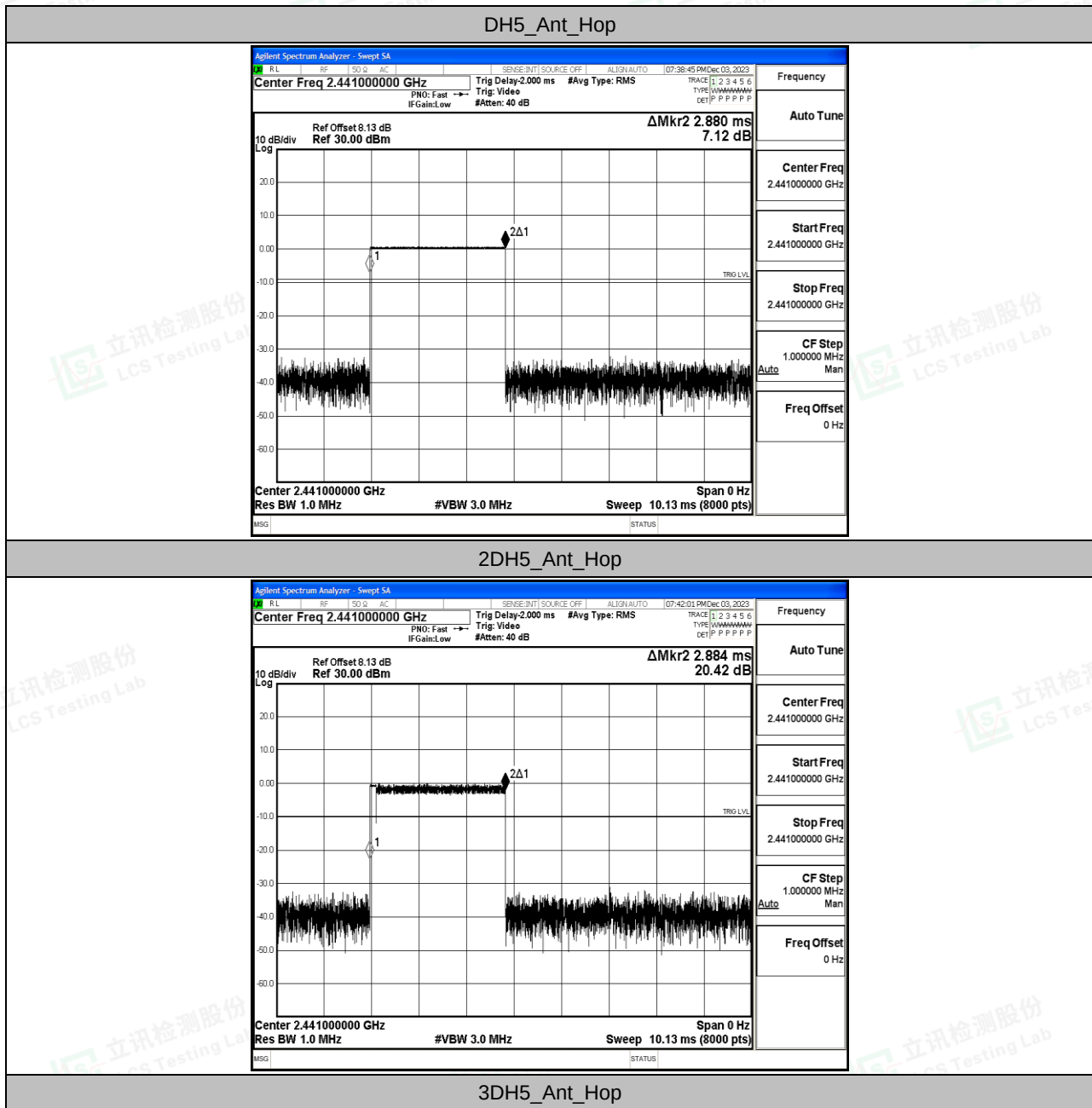
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Test Graphs

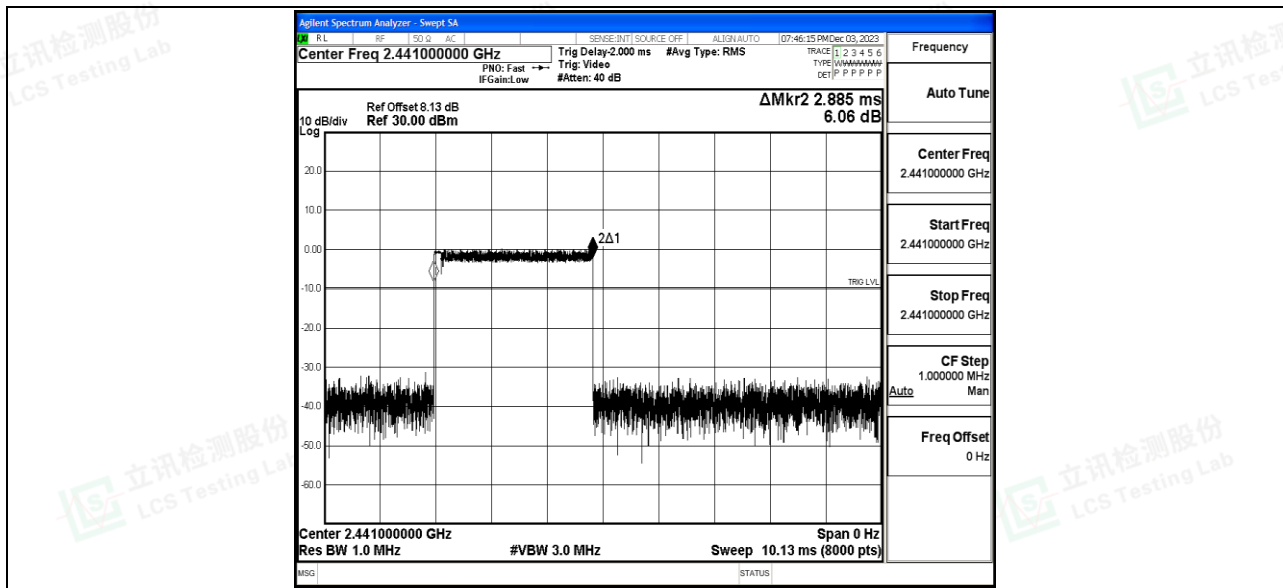


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A.6 Number of hopping channels

Test Result

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





Test Graphs

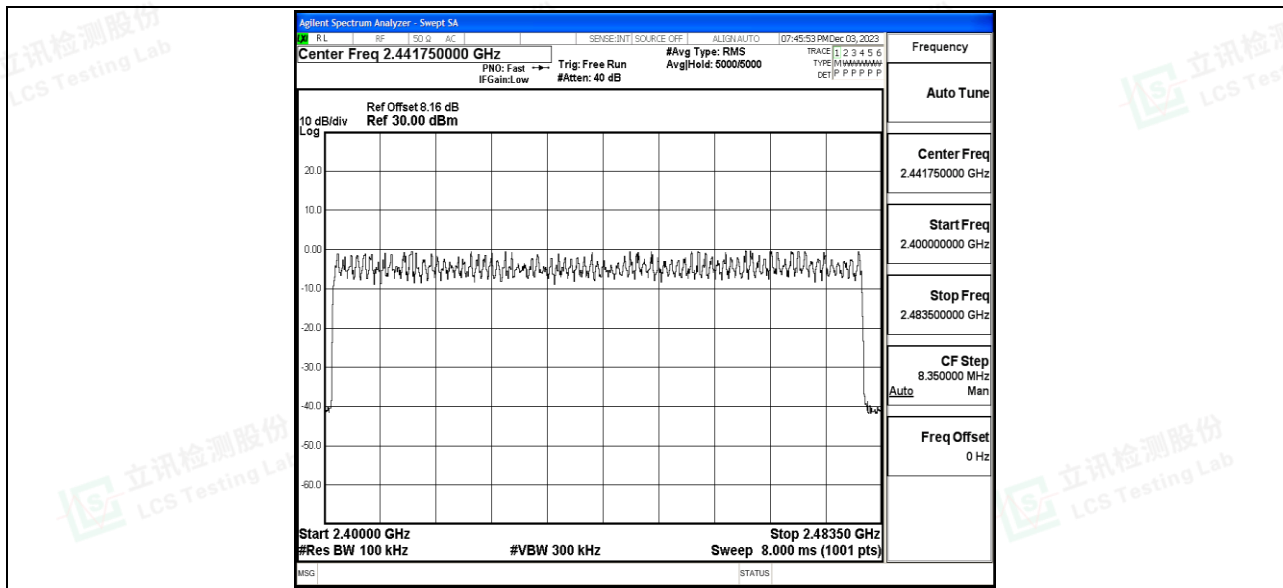


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A.7 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	Low	2402	-0.26	-50.18	≤ -20.26	PASS
		High	2480	-0.10	-50.19	≤ -20.1	PASS
		Low	Hop_2402	-0.44	-50.04	≤ -20.44	PASS
		High	Hop_2480	0.46	-48.87	≤ -19.54	PASS
2DH5	Ant	Low	2402	-5.51	-50.55	≤ -25.51	PASS
		High	2480	-4.28	-50.74	≤ -24.28	PASS
		Low	Hop_2402	-3.24	-49.72	≤ -23.24	PASS
		High	Hop_2480	-0.81	-48.92	≤ -20.81	PASS
3DH5	Ant	Low	2402	-3.92	-50.35	≤ -23.92	PASS
		High	2480	-1.22	-50.4	≤ -21.22	PASS
		Low	Hop_2402	-4.44	-49.73	≤ -24.44	PASS
		High	Hop_2480	-0.43	-49.52	≤ -20.43	PASS



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Test Graphs

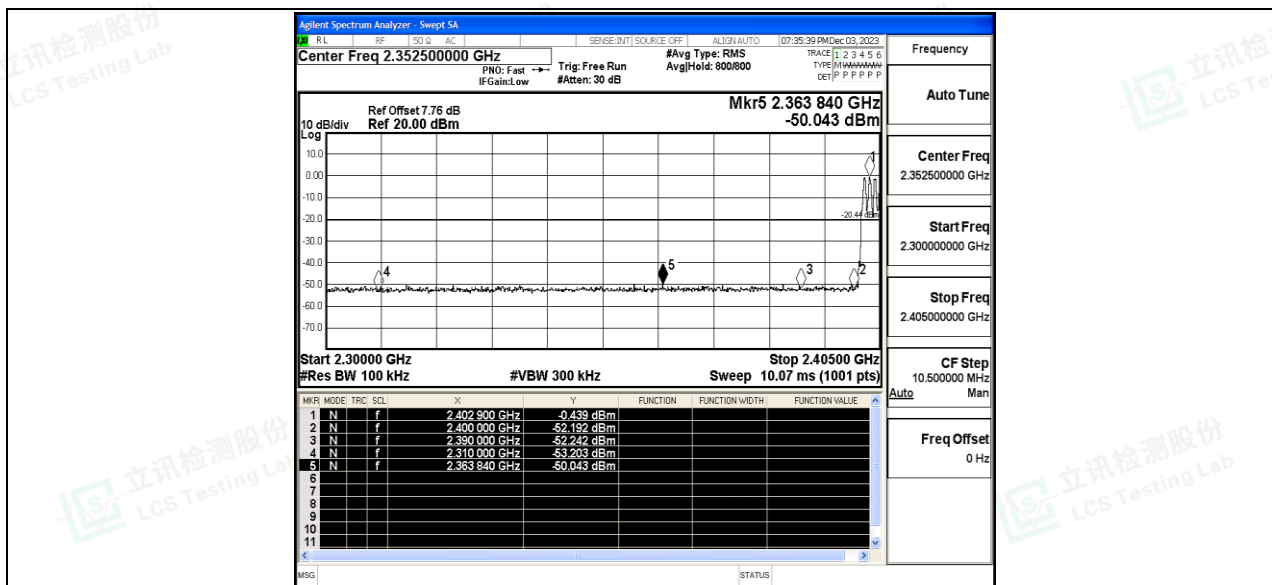


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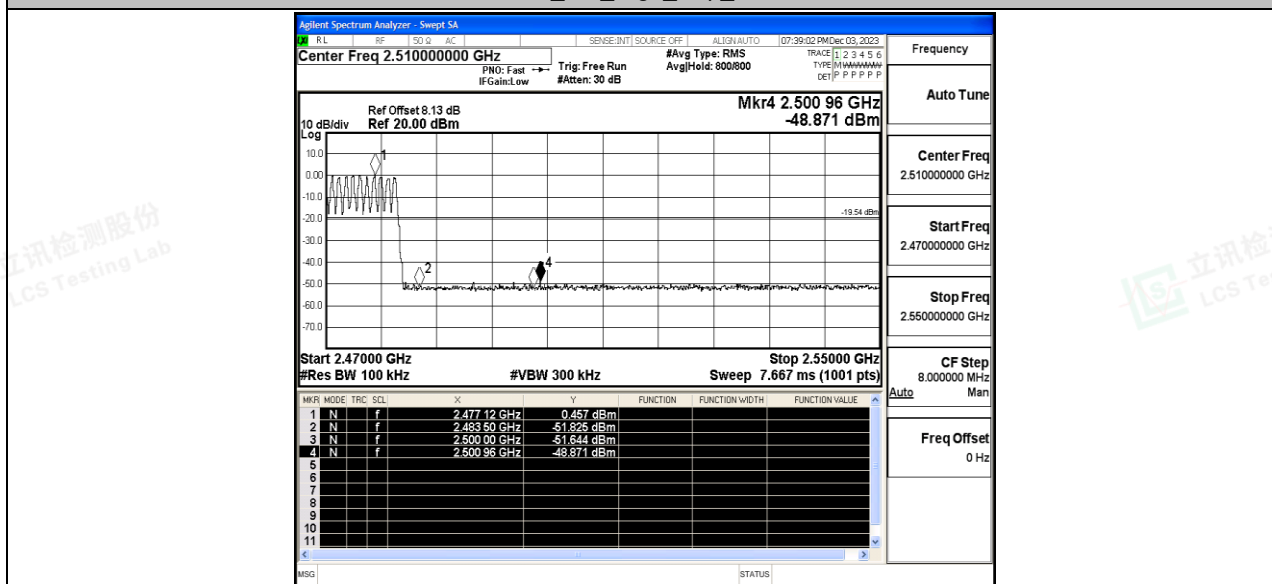
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DH5_Ant_High_Hop_2480



2DH5_Ant_Low_2402

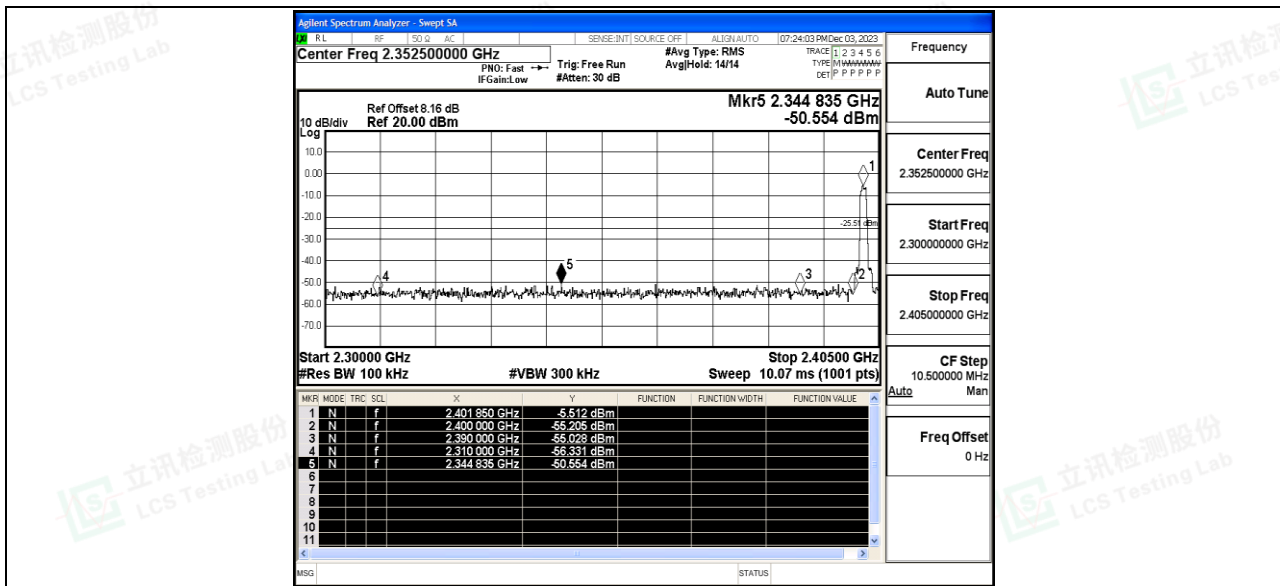


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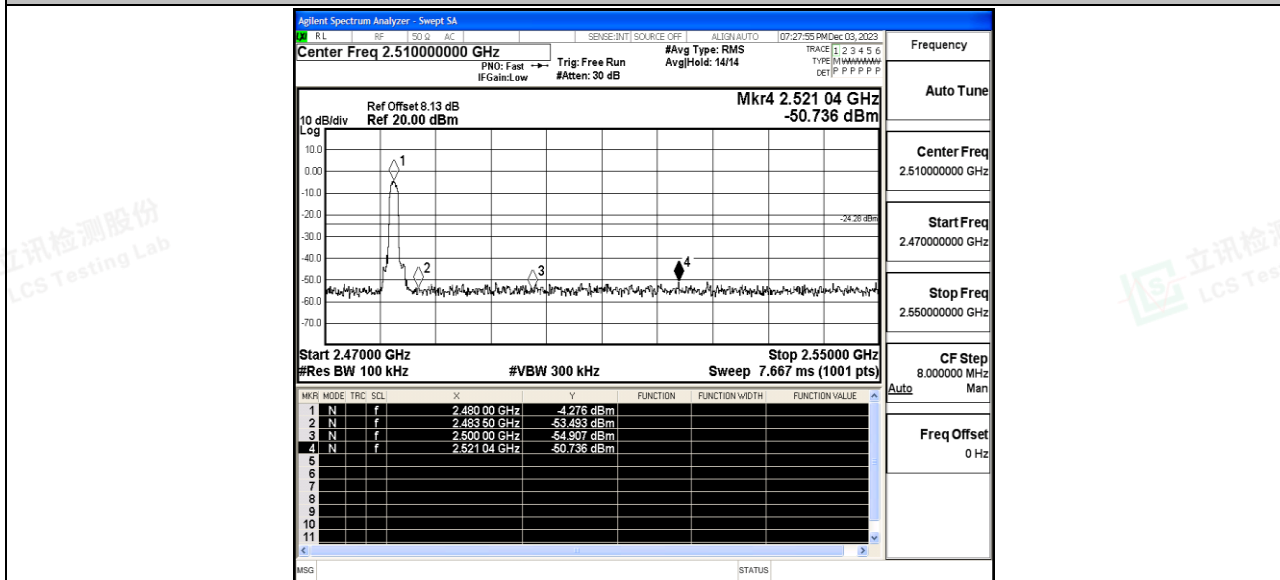
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2DH5_Ant_High_2480



2DH5_Ant_Low_Hop_2402

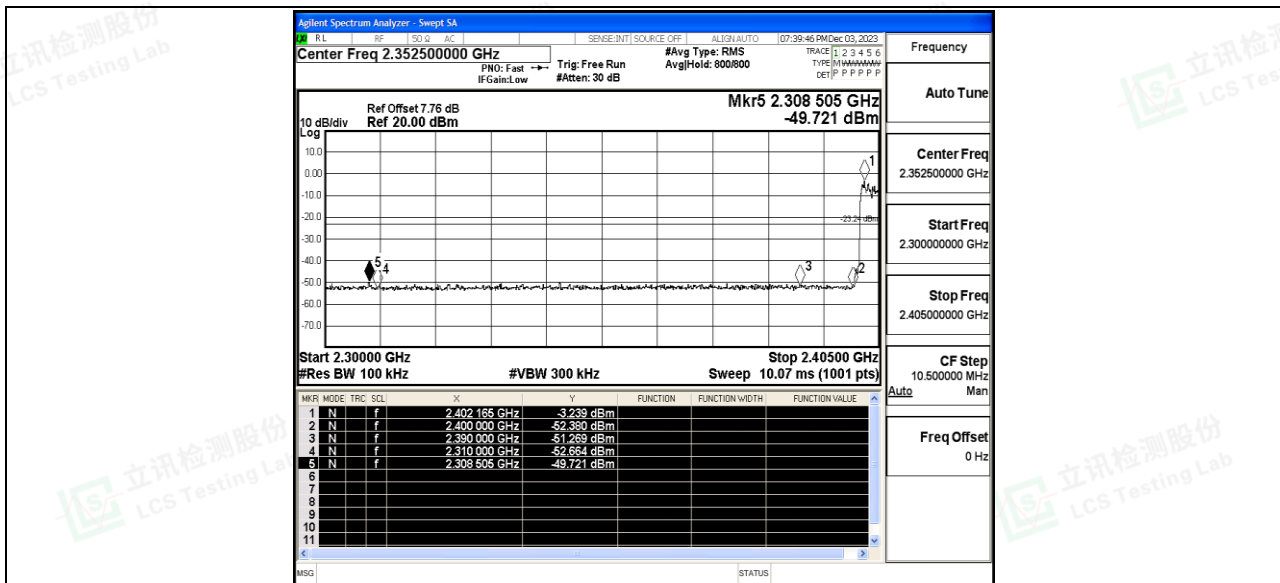


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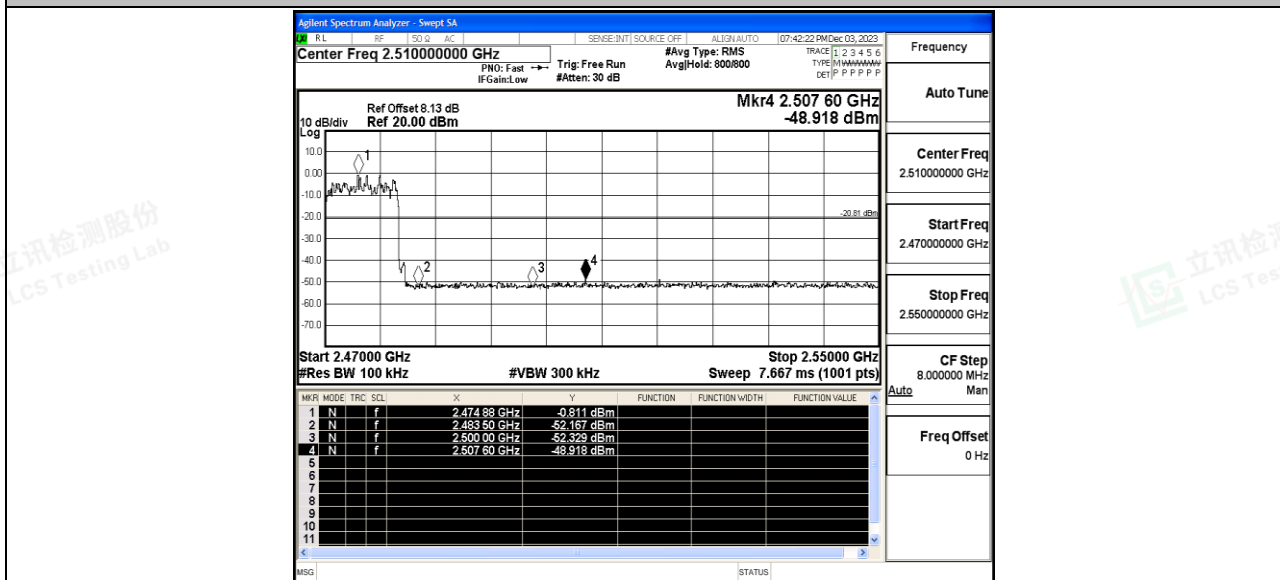
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2DH5_Ant_High_Hop_2480



3DH5_Ant_Low_2402

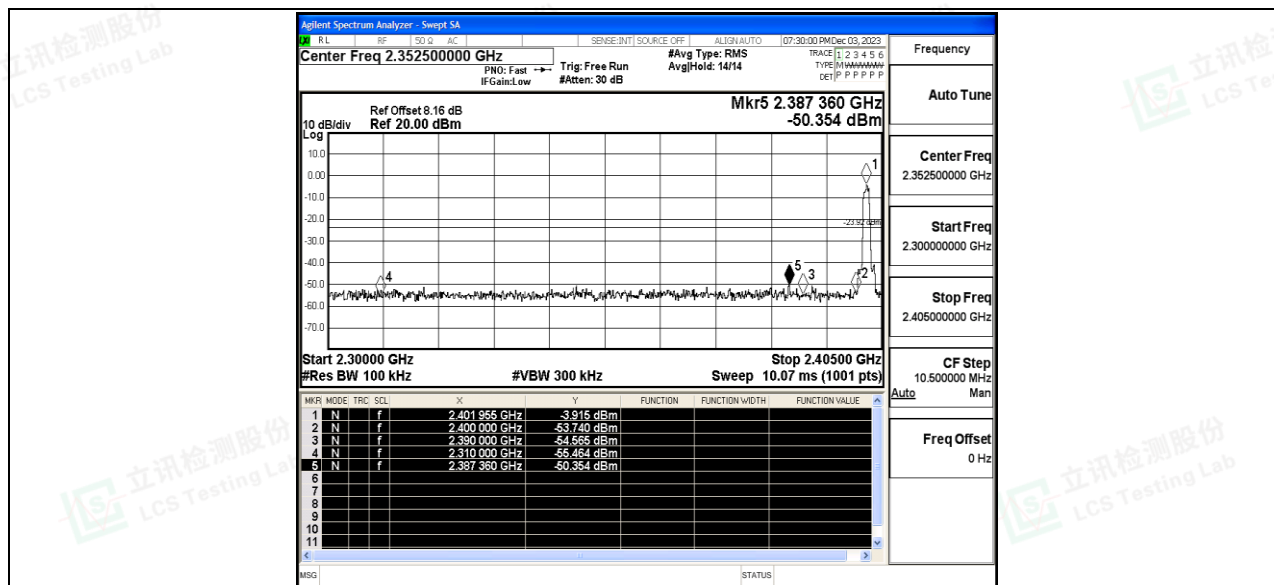


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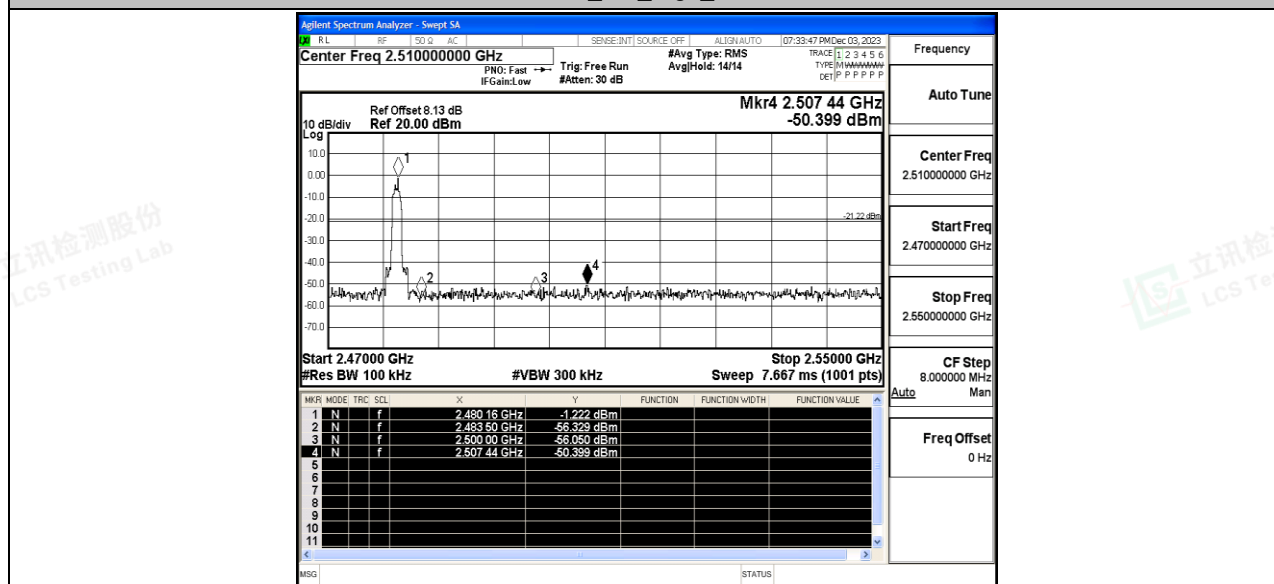
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5_Ant_High_2480



3DH5_Ant_Low_Hop_2402

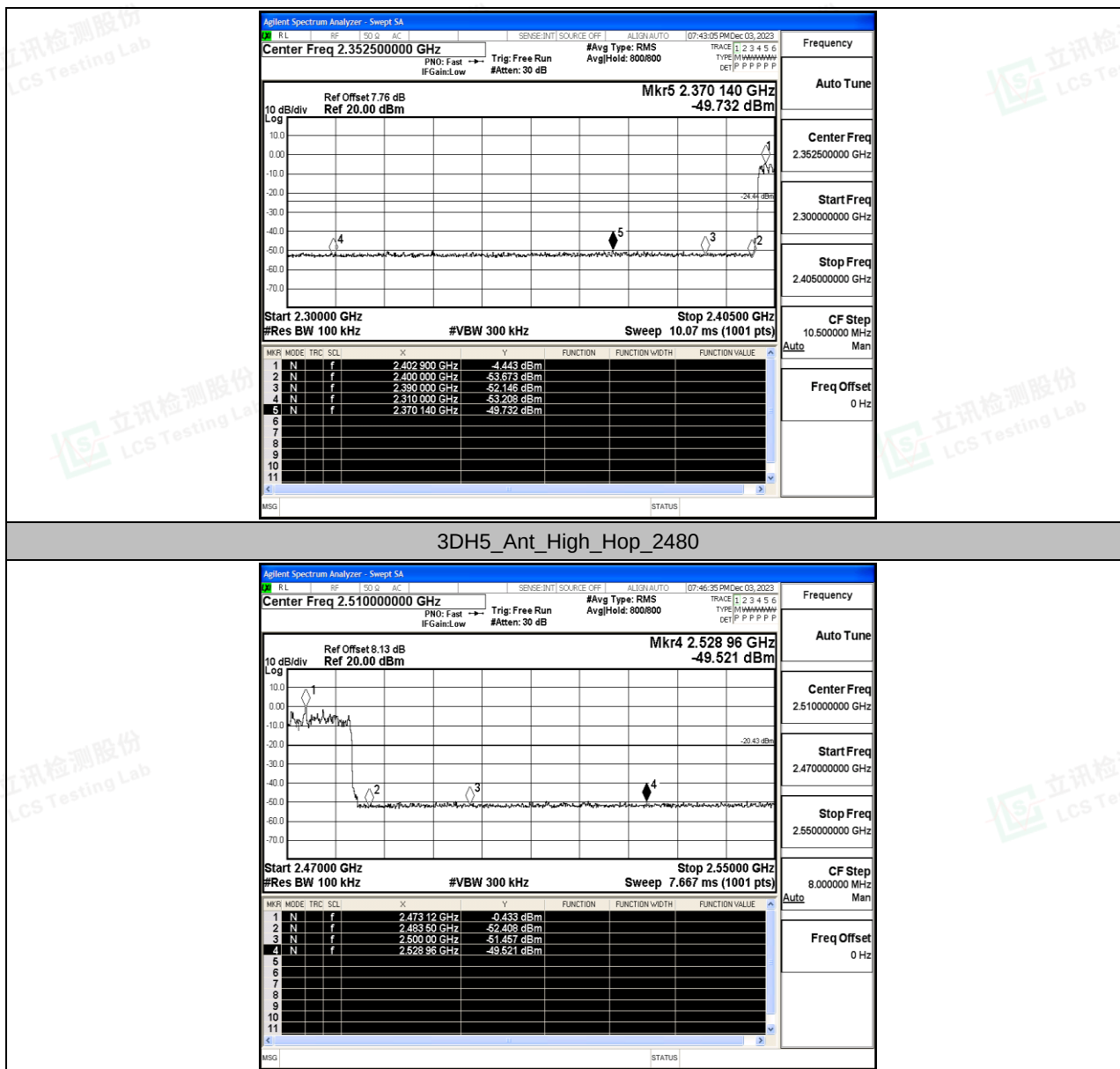


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A.8 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	2402	Reference	0.15	0.15	---	PASS
			30~1000	0.15	-61.52	≤-19.85	PASS
			1000~26500	0.15	-49.39	≤-19.85	PASS
		2441	Reference	0.25	0.25	---	PASS
			30~1000	0.25	-60.87	≤-19.75	PASS
			1000~26500	0.25	-48.34	≤-19.75	PASS
		2480	Reference	0.02	0.02	---	PASS
			30~1000	0.02	-62.04	≤-19.98	PASS
			1000~26500	0.02	-49.2	≤-19.98	PASS
2DH5	Ant	2402	Reference	-0.80	-0.80	---	PASS
			30~1000	-0.80	-61.83	≤-20.8	PASS
			1000~26500	-0.80	-49.33	≤-20.8	PASS
		2441	Reference	-1.41	-1.41	---	PASS
			30~1000	-1.41	-61.14	≤-21.41	PASS
			1000~26500	-1.41	-49.59	≤-21.41	PASS
		2480	Reference	-0.97	-0.97	---	PASS
			30~1000	-0.97	-61.74	≤-20.97	PASS
			1000~26500	-0.97	-49.48	≤-20.97	PASS
3DH5	Ant	2402	Reference	-1.50	-1.50	---	PASS
			30~1000	-1.50	-60.51	≤-21.5	PASS
			1000~26500	-1.50	-47.97	≤-21.5	PASS
		2441	Reference	-0.82	-0.82	---	PASS
			30~1000	-0.82	-61.38	≤-20.82	PASS
			1000~26500	-0.82	-49.04	≤-20.82	PASS
		2480	Reference	-0.70	-0.70	---	PASS
			30~1000	-0.70	-61.24	≤-20.7	PASS
			1000~26500	-0.70	-49.06	≤-20.7	PASS



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