



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless Diagnostics Module

Test Model: V200

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Bill Zhu
Supervised by:	Li Huan



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A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant	2402	1.035	2401.466	2402.501	---	---
		2441	1.041	2440.463	2441.504	---	---
		2480	1.035	2479.463	2480.498	---	---
2DH5	Ant	2402	1.314	2401.340	2402.654	---	---
		2441	1.326	2440.334	2441.660	---	---
		2480	1.320	2479.337	2480.657	---	---
3DH5	Ant	2402	1.305	2401.343	2402.648	---	---
		2441	1.293	2440.349	2441.642	---	---
		2480	1.293	2479.349	2480.642	---	---



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Test Graphs

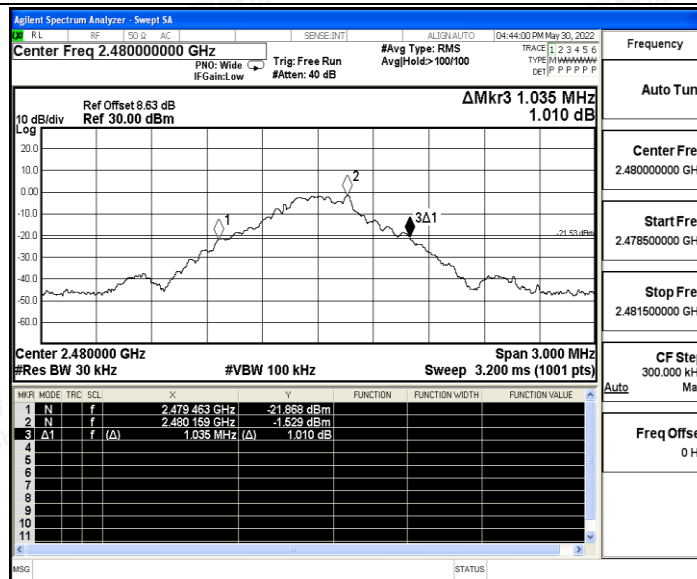


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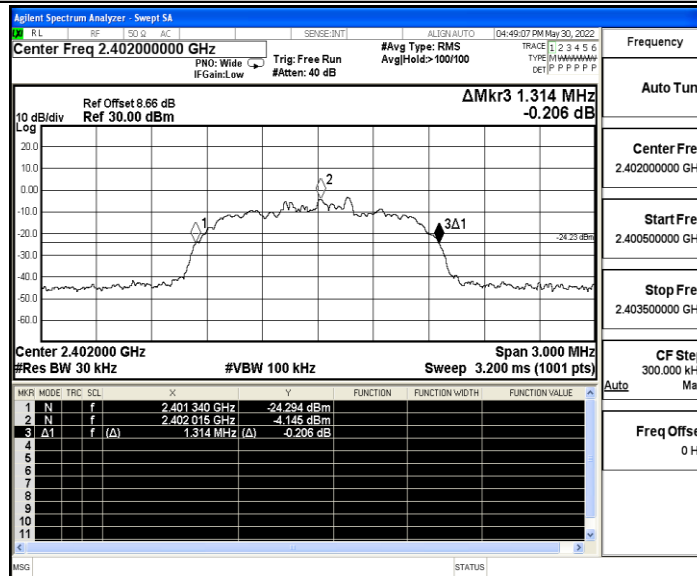
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2DH5_Ant_2402



2DH5_Ant_2441



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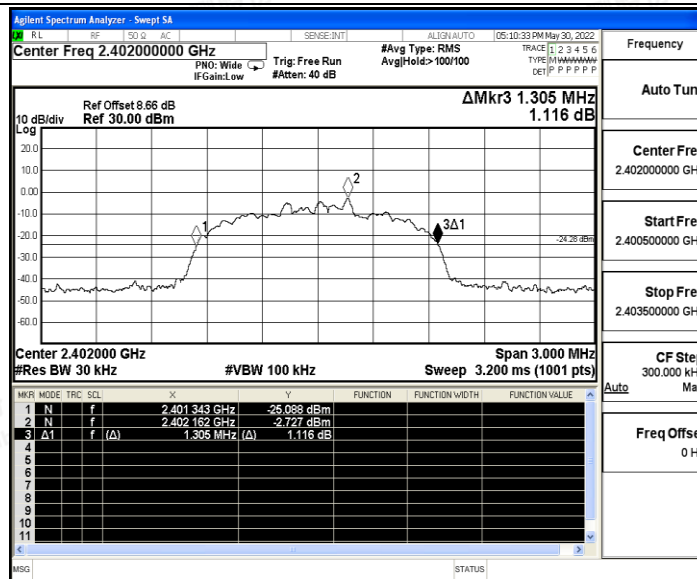


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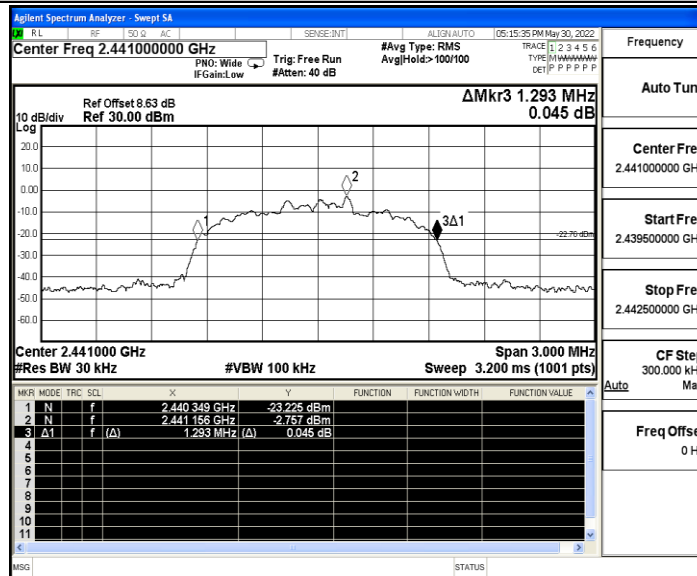
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3DH5_Ant_2441



3DH5_Ant_2480

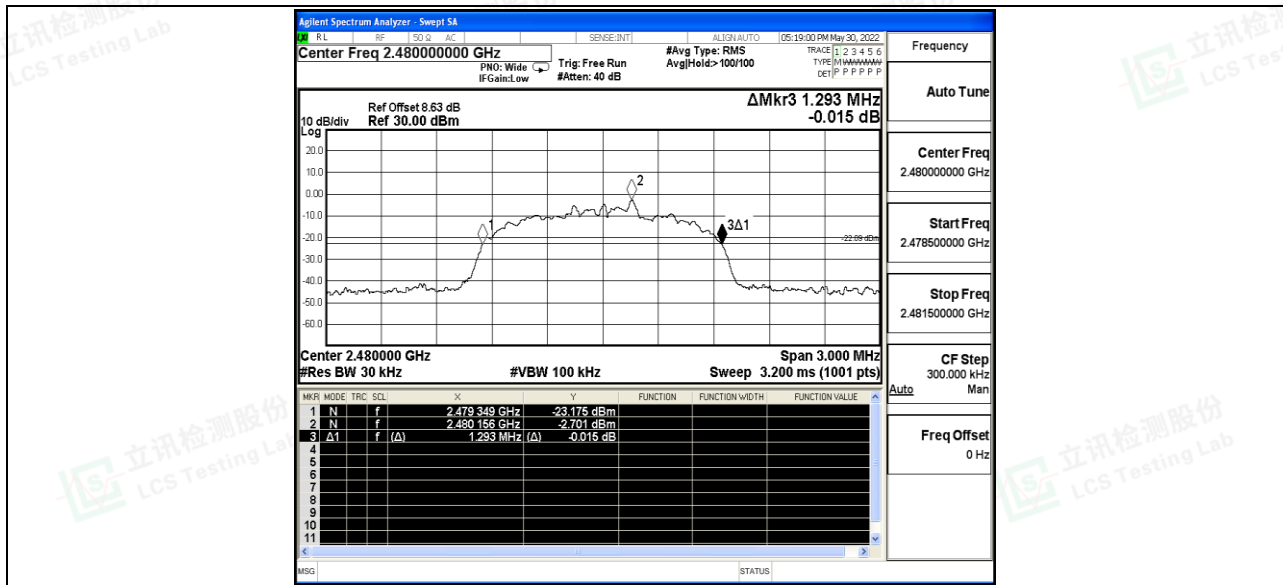


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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant	2402	1.14	≤20.97	PASS
		2441	1.29	≤20.97	PASS
		2480	1.21	≤20.97	PASS
2DH5	Ant	2402	0.82	≤20.97	PASS
		2441	0.87	≤20.97	PASS
		2480	0.81	≤20.97	PASS
3DH5	Ant	2402	0.82	≤20.97	PASS
		2441	0.94	≤20.97	PASS
		2480	0.87	≤20.97	PASS



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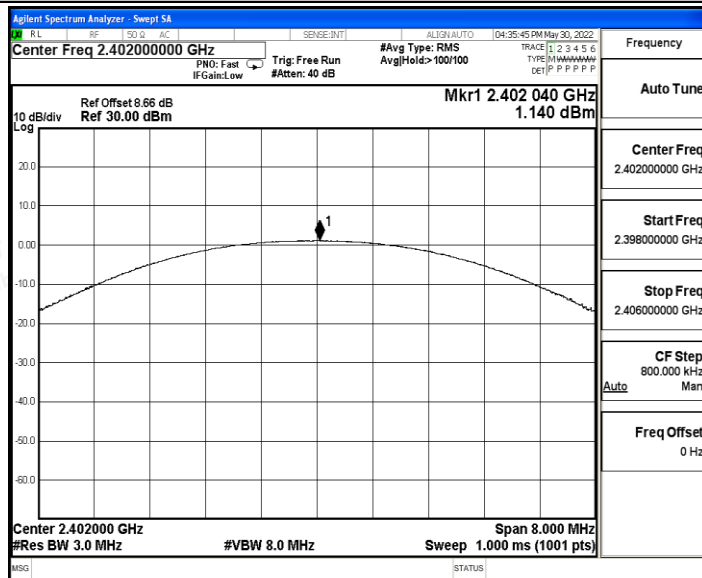
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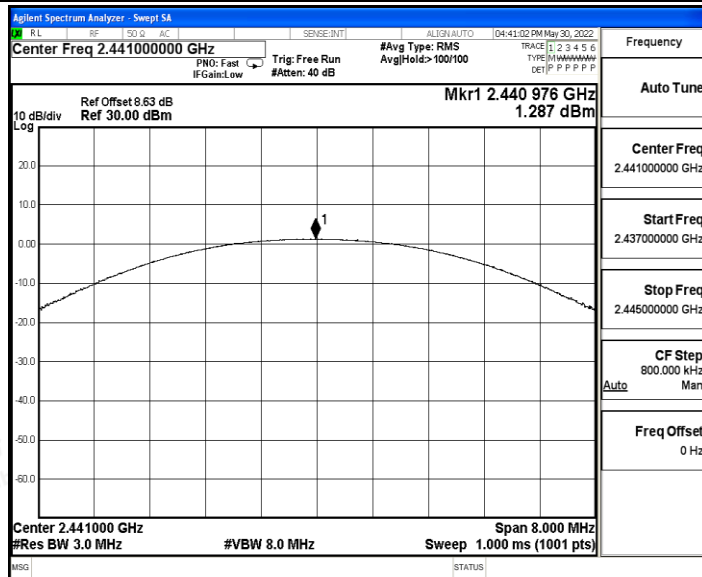


Test Graphs

DH5_Ant_2402



DH5_Ant_2441



DH5_Ant_2480

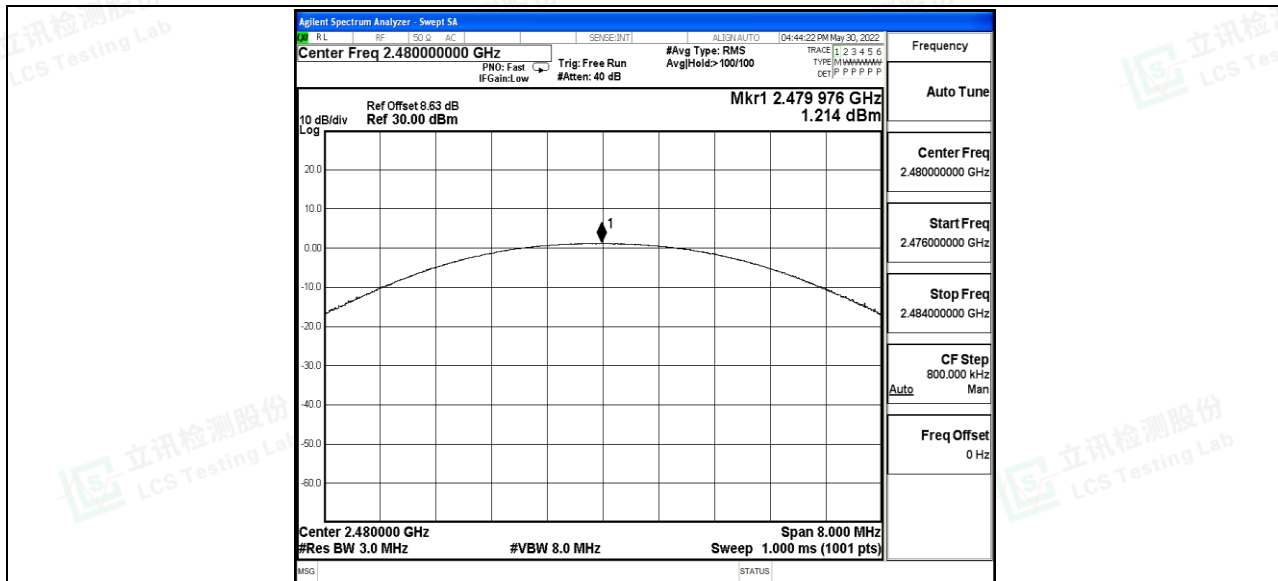


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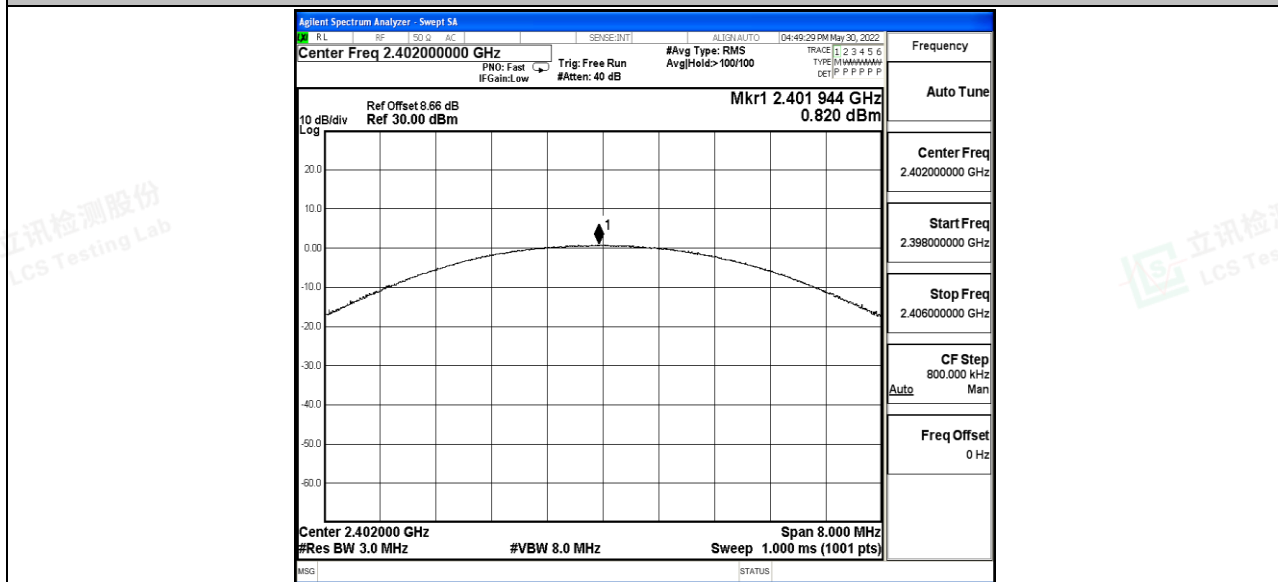
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2DH5_Ant_2402



2DH5_Ant_2441

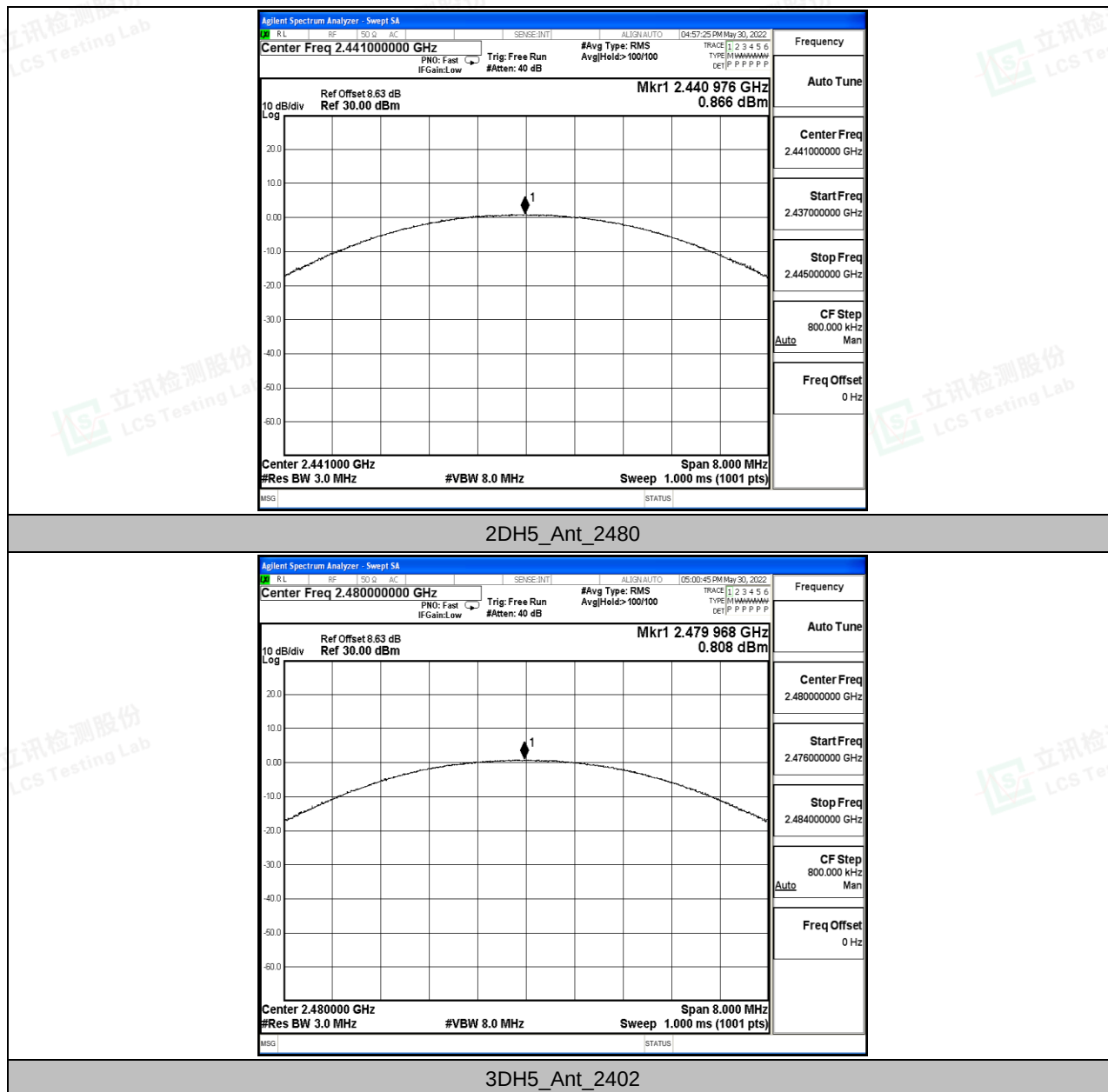


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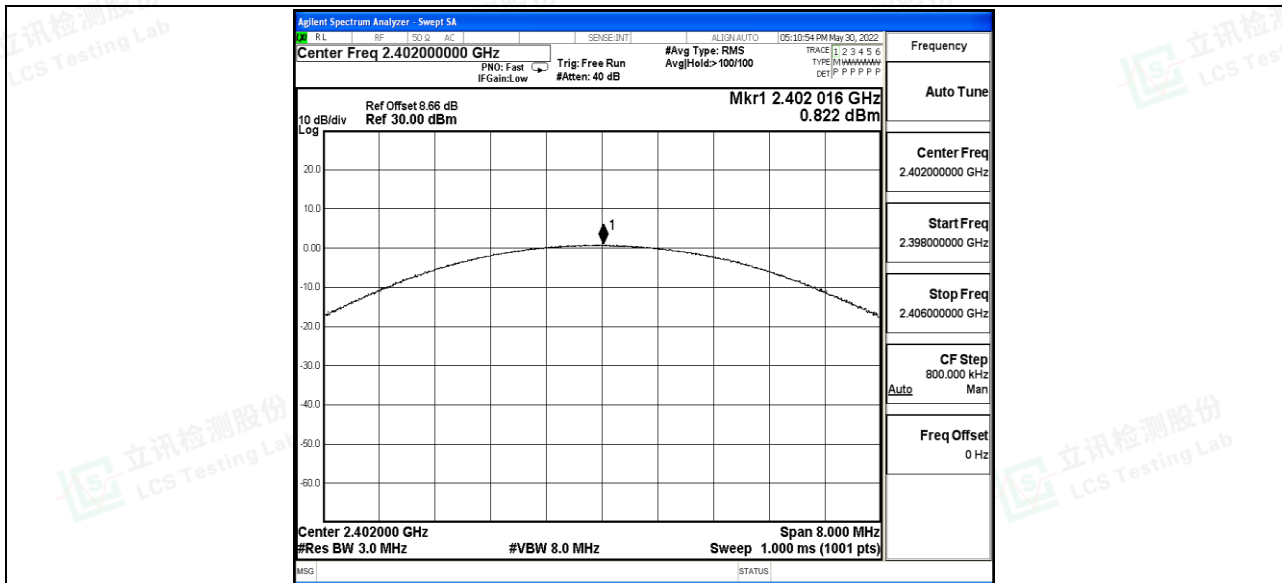


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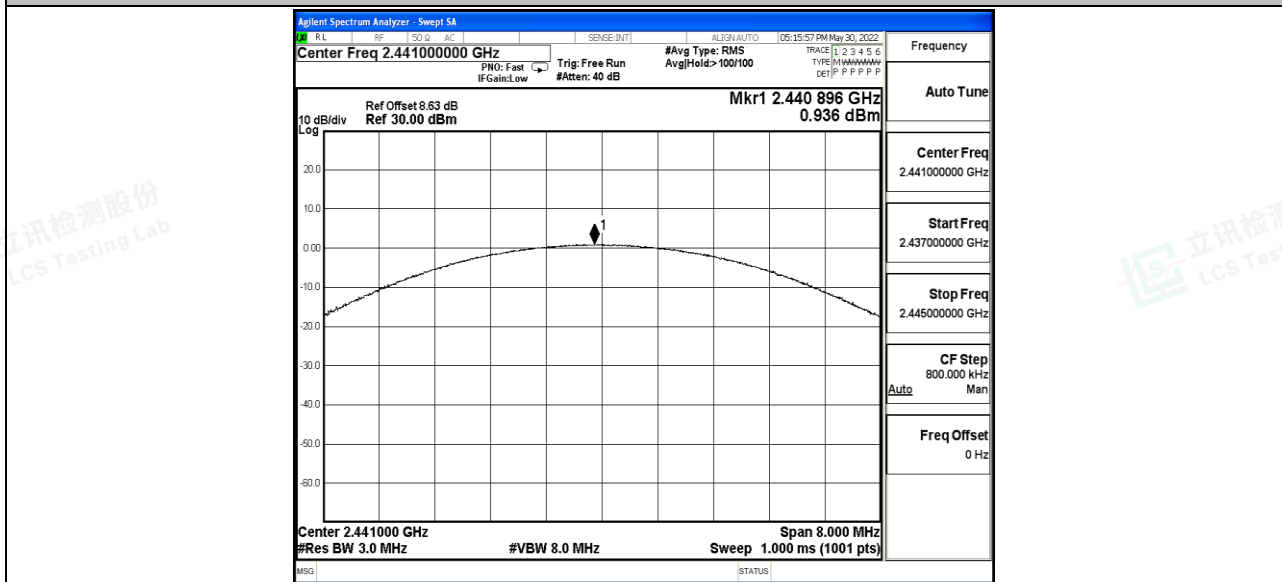
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3DH5_Ant_2441



3DH5_Ant_2480

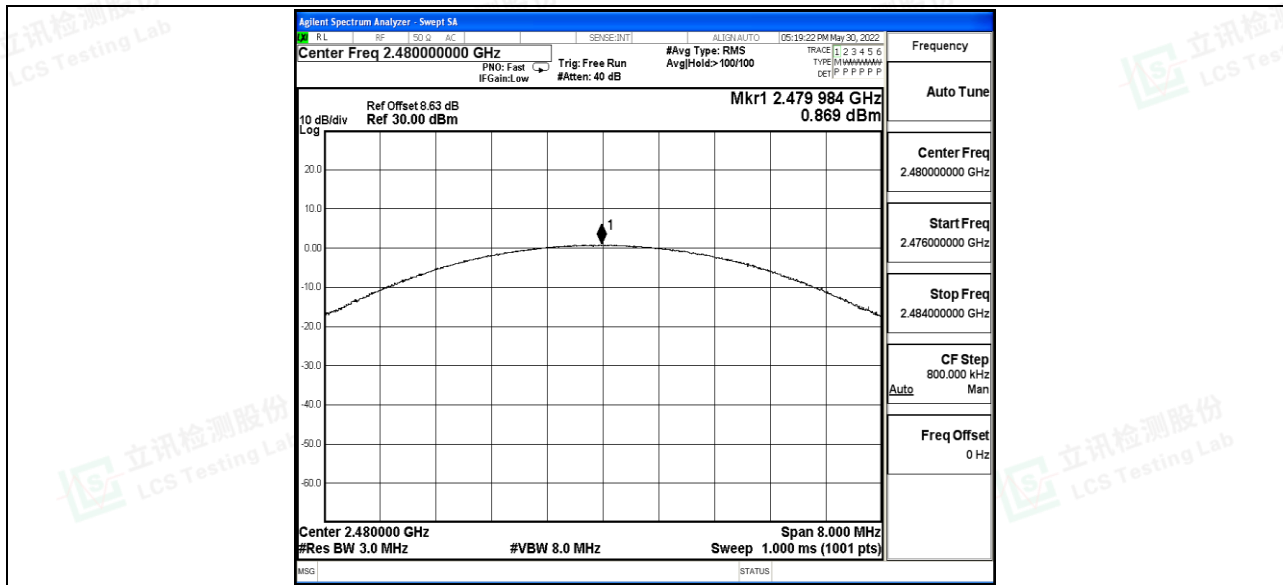


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A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant	Hop	0.874	≥ 0.694	PASS
2DH5	Ant	Hop	1.148	≥ 0.884	PASS
3DH5	Ant	Hop	1.214	≥ 0.870	PASS



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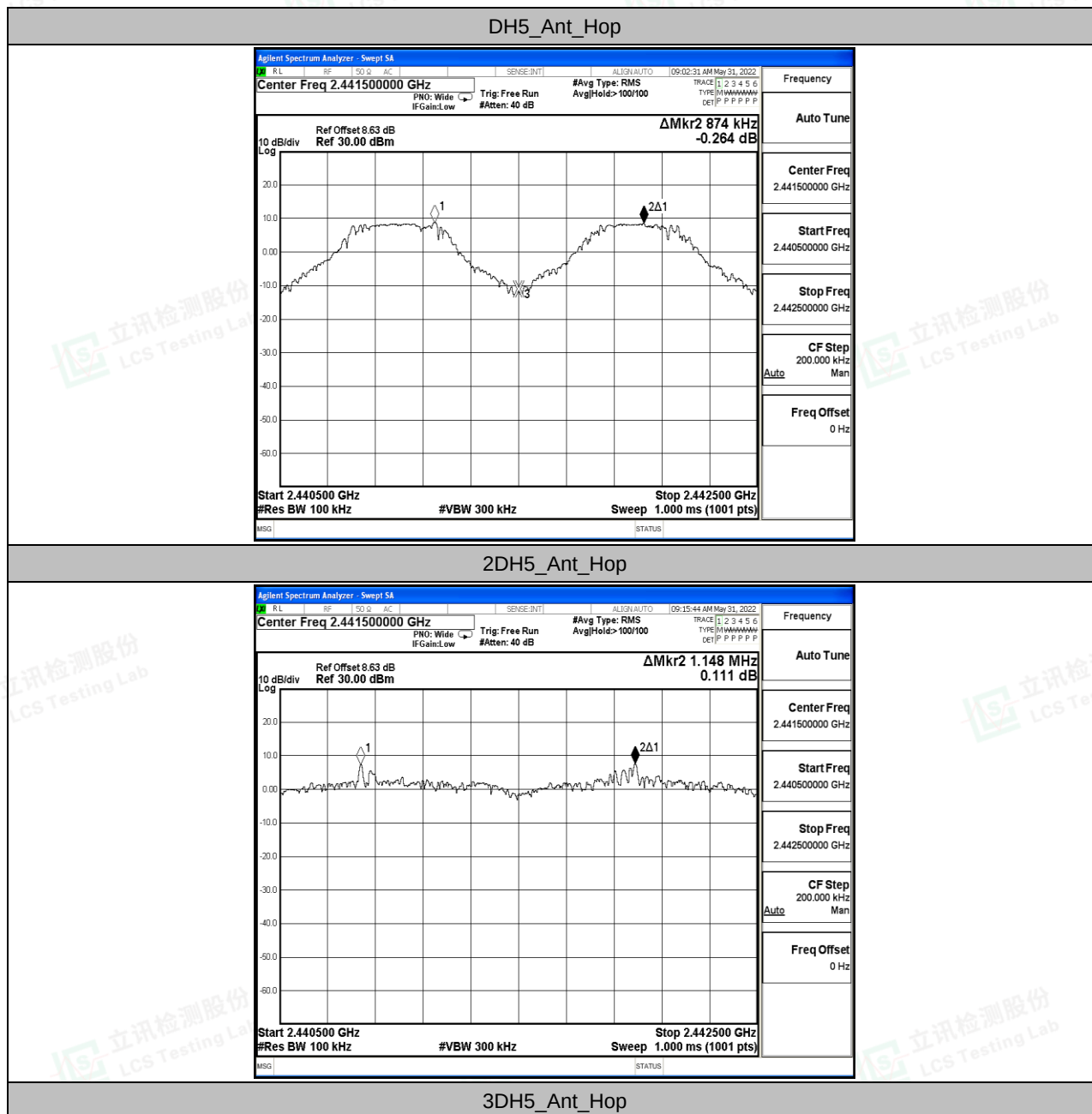
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Test Graphs

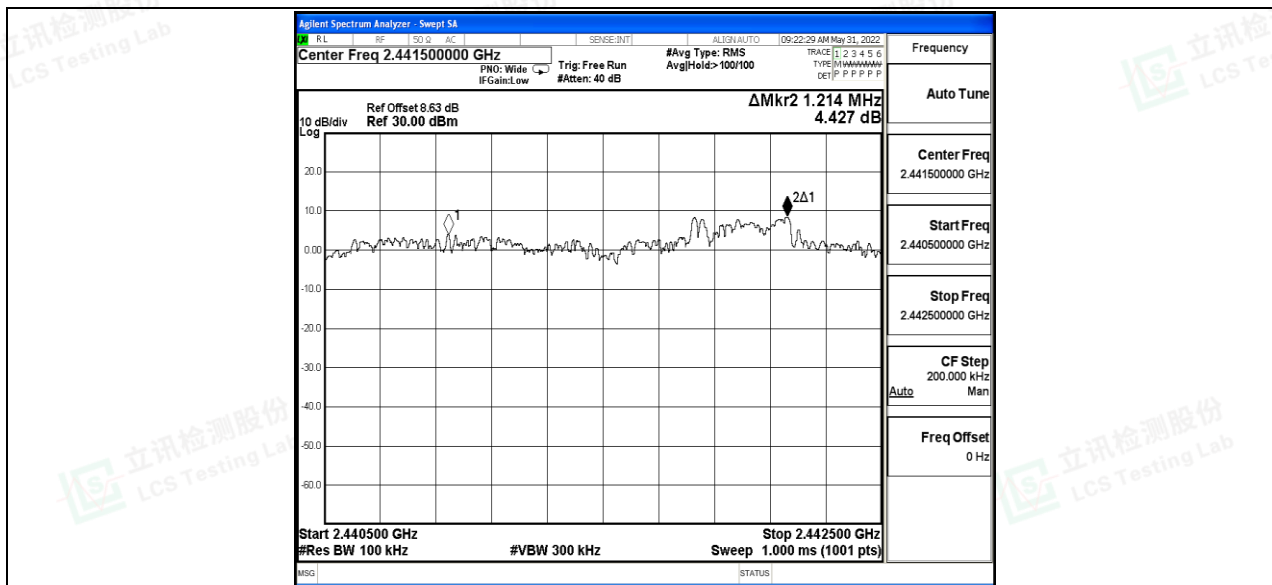


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A.4 Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH5	Ant	Hop	2.88	106.67	0.307	≤0.4	PASS
3DH5	Ant	Hop	2.89	106.67	0.308	≤0.4	PASS



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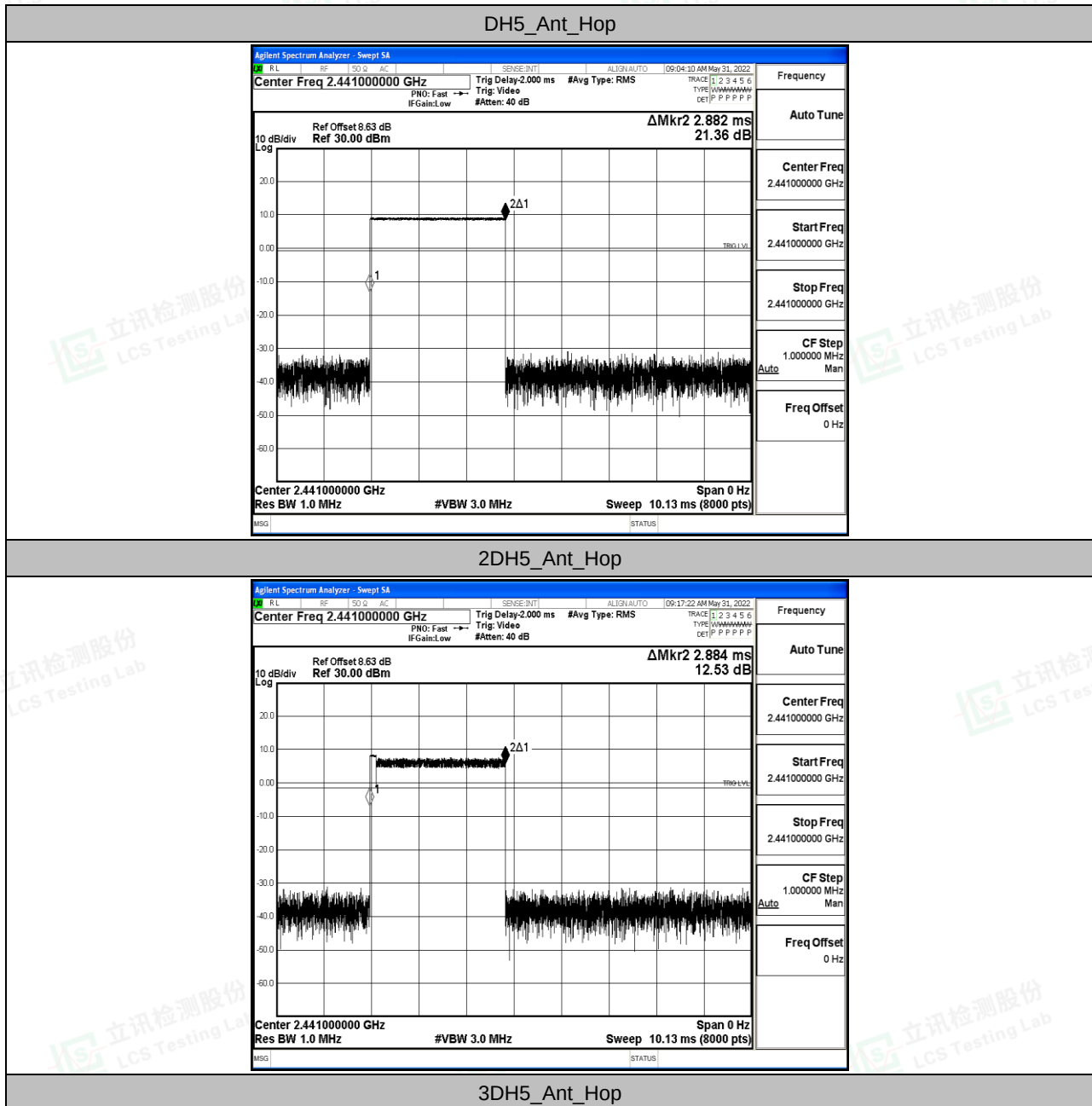
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Test Graphs

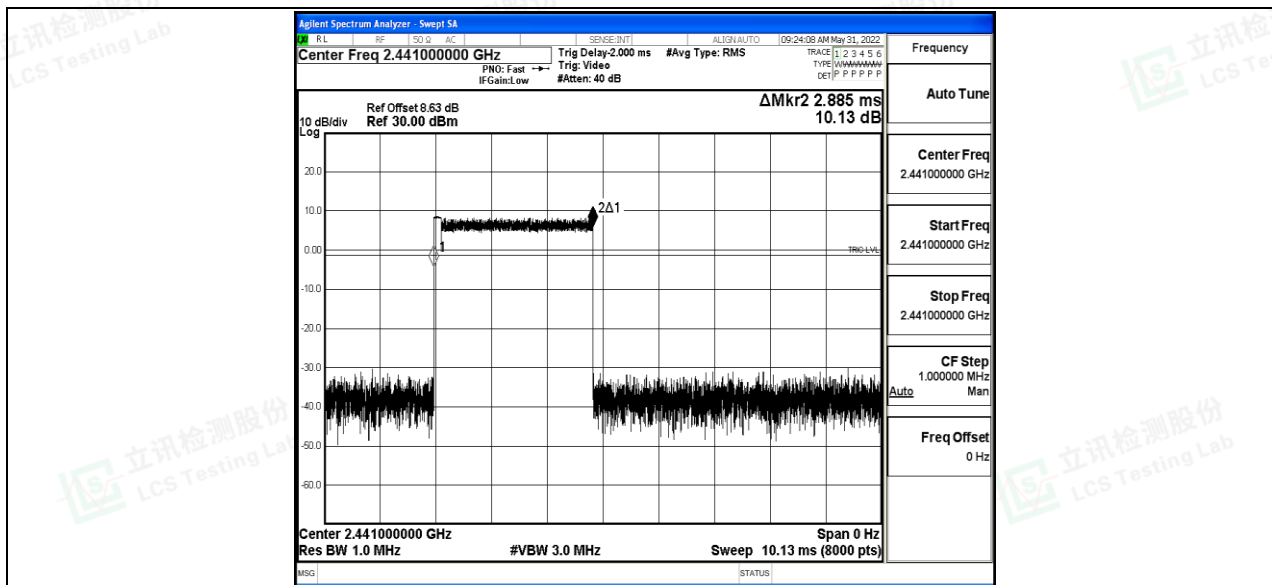


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A.5 Number of hopping channels

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



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Test Graphs

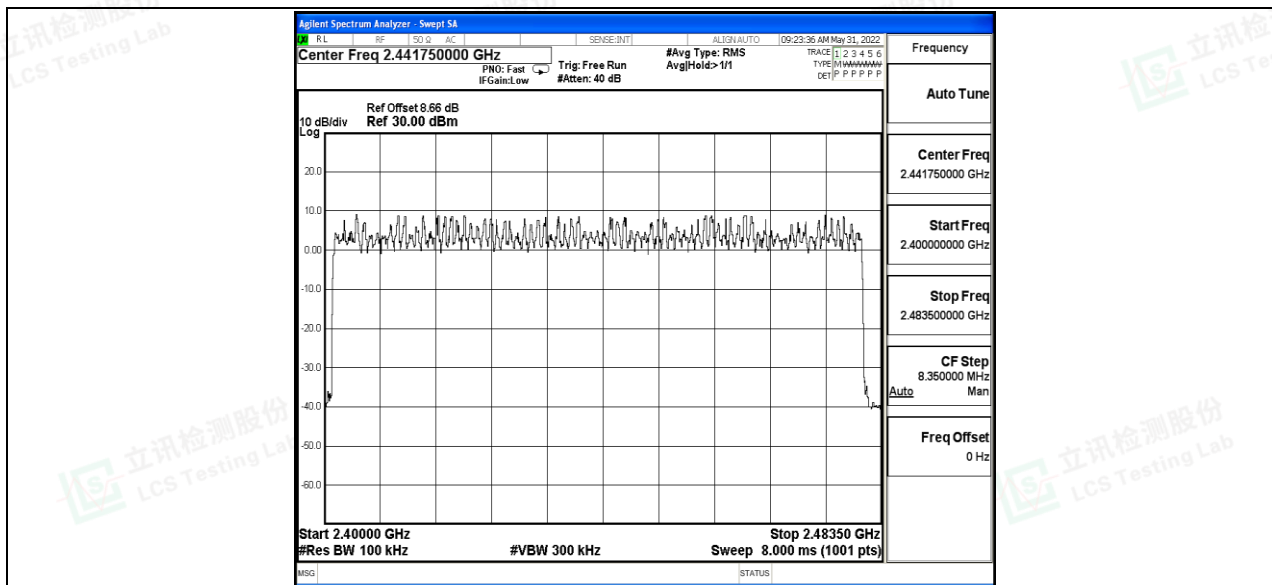


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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	Low	2402	0.39	-46.92	≤ -19.61	PASS
		High	2480	0.52	-46.82	≤ -19.49	PASS
		Low	Hop_2402	9.12	-49.02	≤ -10.89	PASS
		High	Hop_2480	9.26	-47.76	≤ -10.74	PASS
2DH5	Ant	Low	2402	-0.64	-49.32	≤ -20.64	PASS
		High	2480	-0.52	-47.48	≤ -20.52	PASS
		Low	Hop_2402	3.97	-49.61	≤ -16.03	PASS
		High	Hop_2480	8.34	-47.58	≤ -11.66	PASS
3DH5	Ant	Low	2402	-0.62	-48.74	≤ -20.62	PASS
		High	2480	-0.62	-48.35	≤ -20.62	PASS
		Low	Hop_2402	3.95	-48.55	≤ -16.05	PASS
		High	Hop_2480	8.80	-47.11	≤ -11.2	PASS



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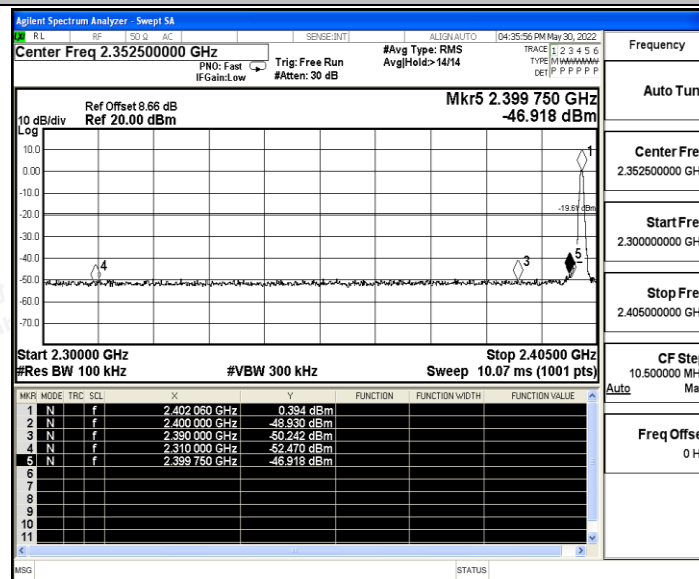
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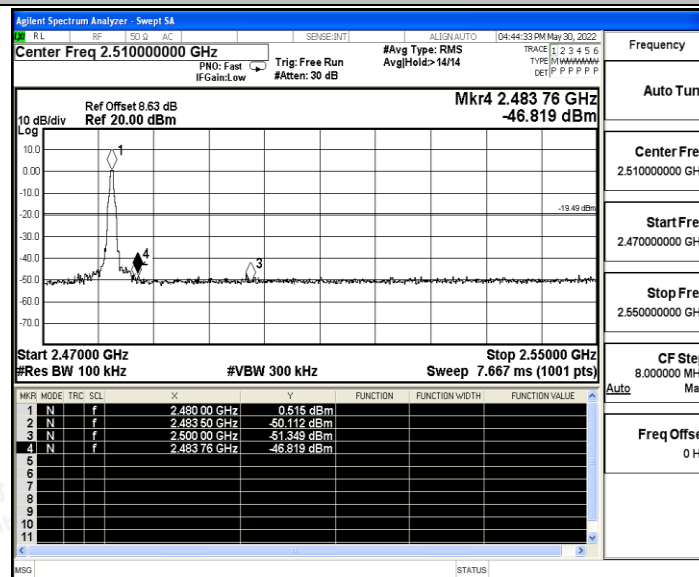


Test Graphs

DH5_Ant_Low_2402



DH5_Ant_High_2480



DH5_Ant_Low_Hop_2402

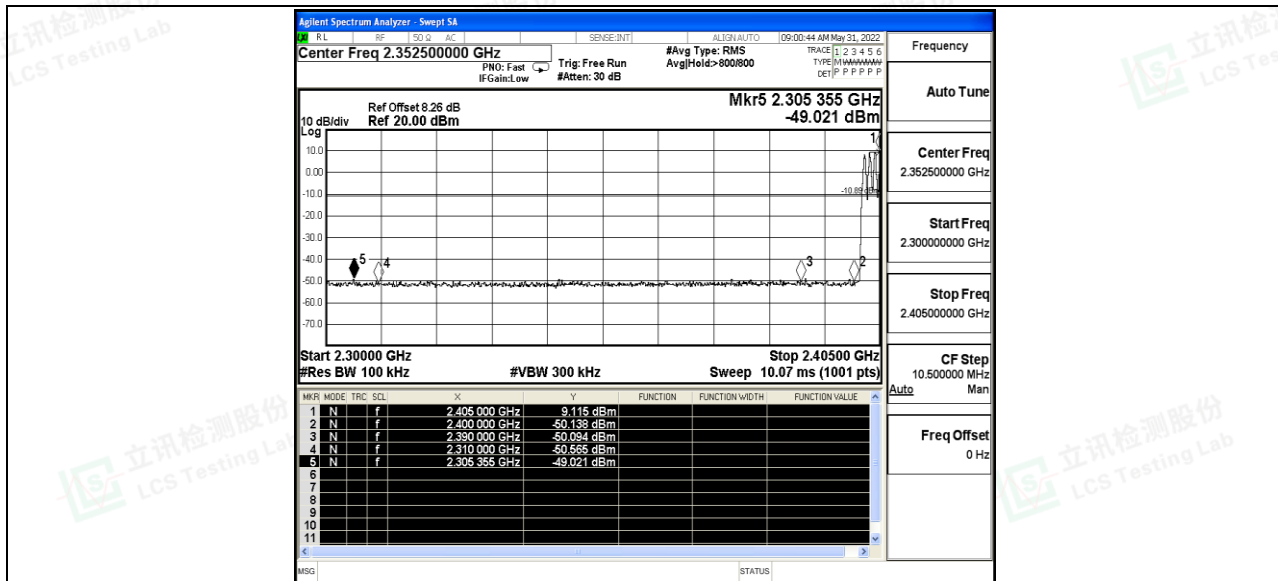


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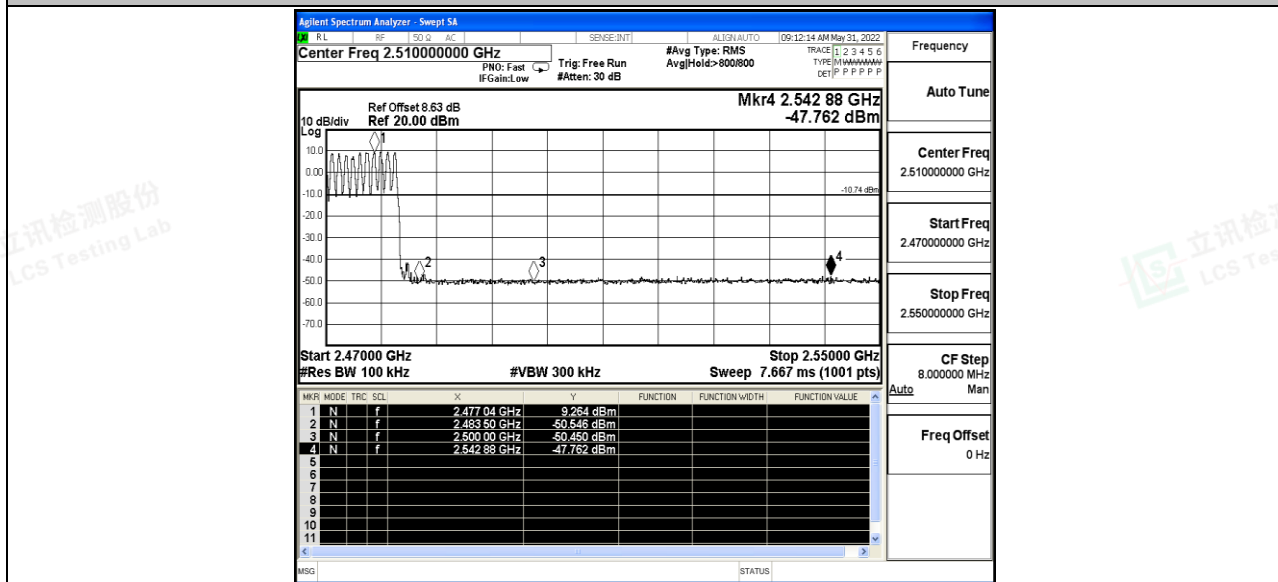
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DH5_Ant_High_Hop_2480



2DH5_Ant_Low_2402

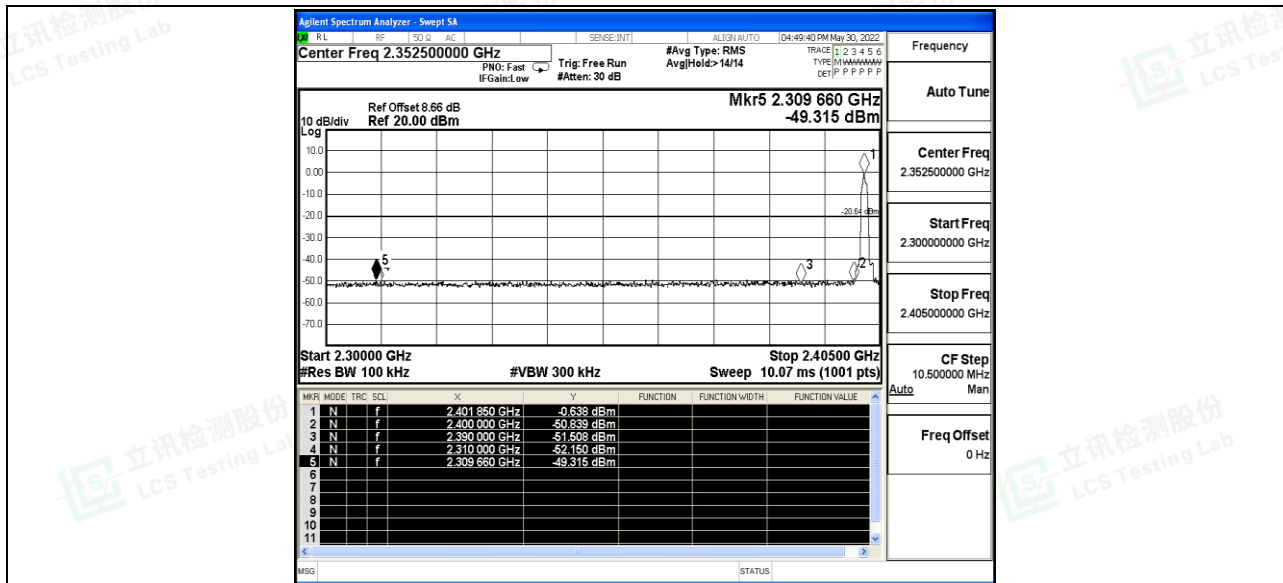


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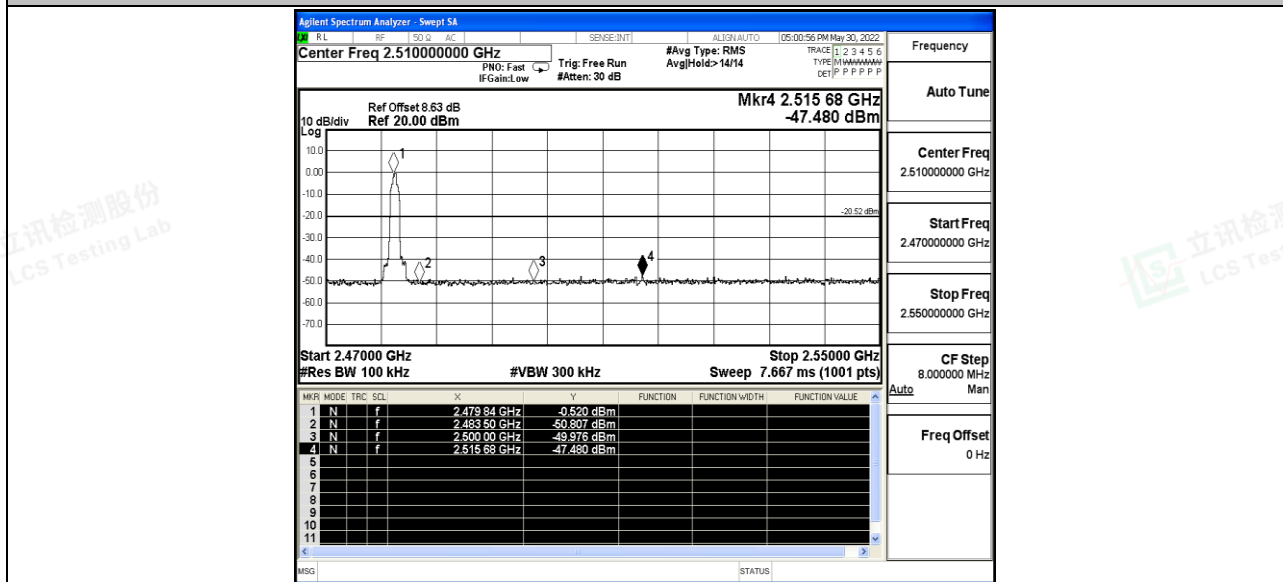
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2DH5_Ant_High_2480



2DH5_Ant_Low_Hop_2402

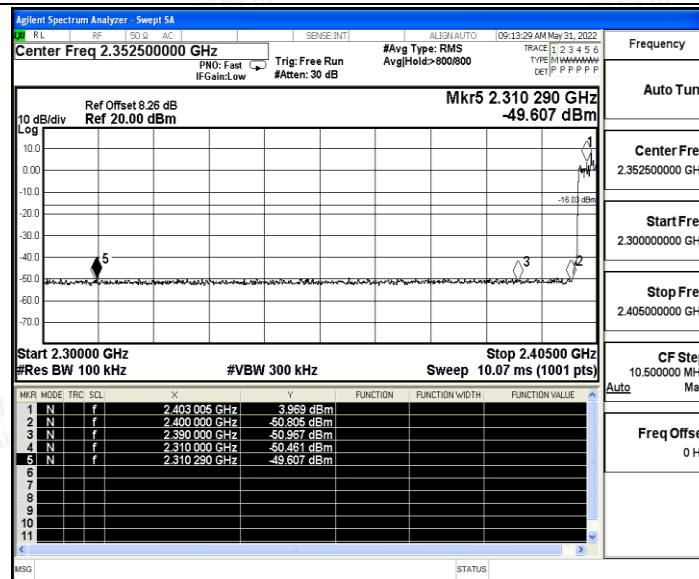


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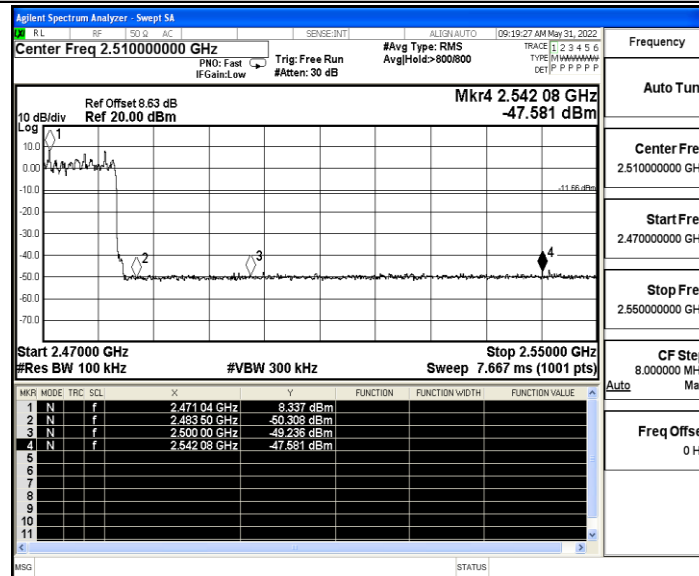
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2DH5_Ant_High_Hop_2480



3DH5_Ant_Low_2402

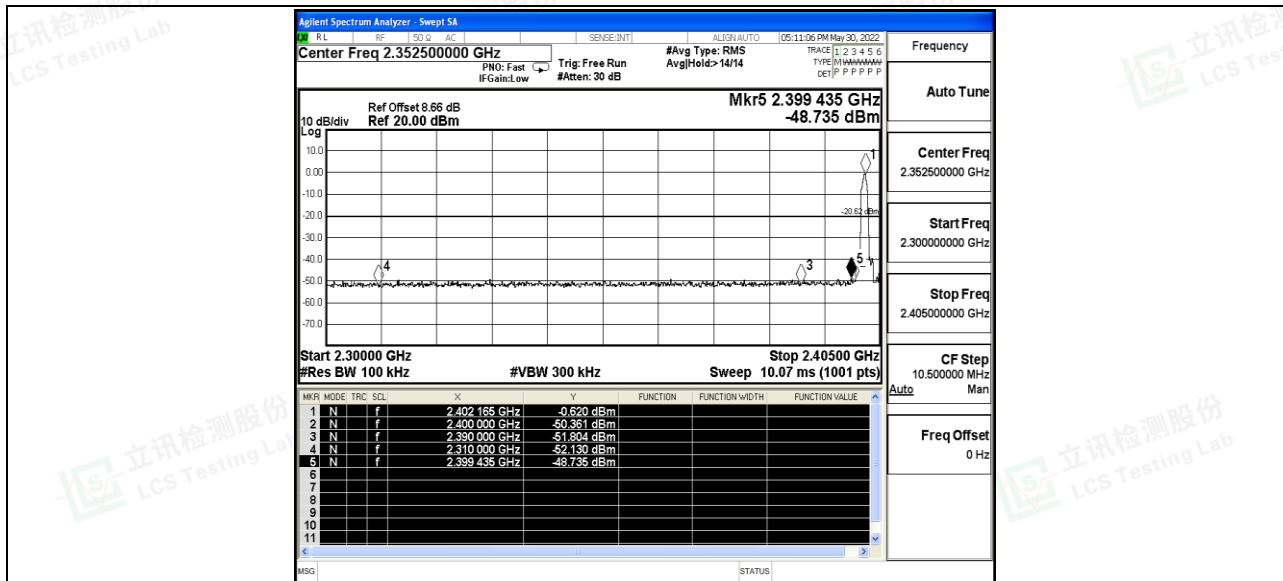


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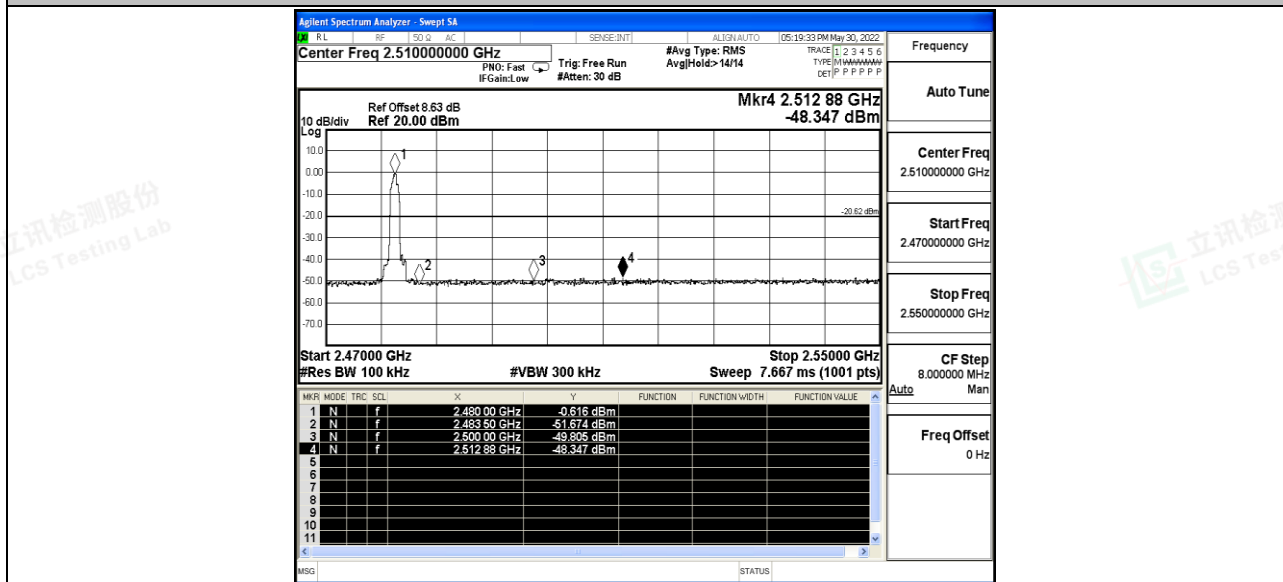
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3DH5_Ant_High_2480



3DH5_Ant_Low_Hop_2402

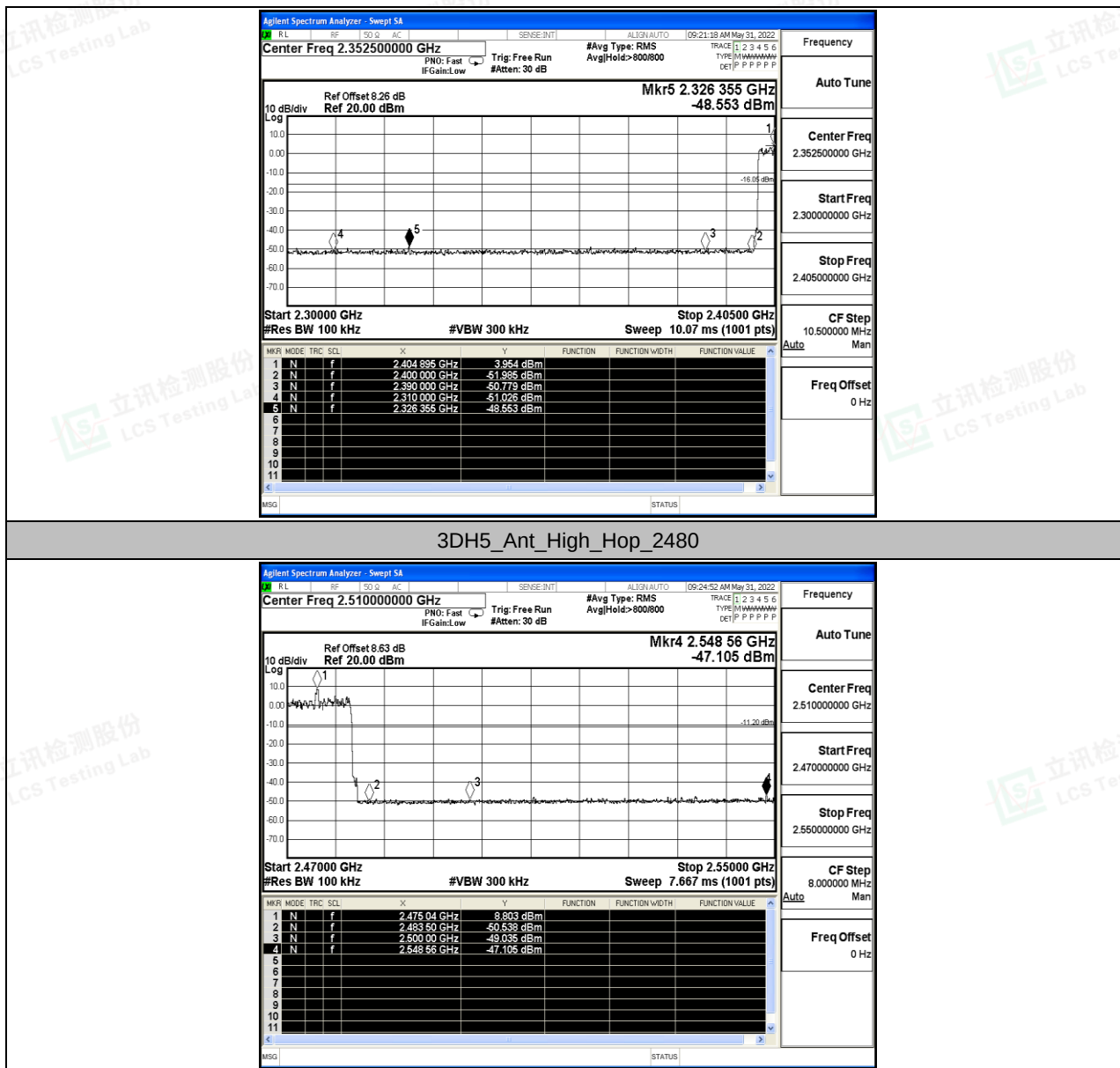


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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	2402	Reference	0.46	0.46	---	PASS
			30~1000	0.46	-56.22	≤-19.54	PASS
			1000~26500	0.46	-29.26	≤-19.54	PASS
		2441	Reference	0.44	0.44	---	PASS
			30~1000	0.44	-56.19	≤-19.56	PASS
			1000~26500	0.44	-41.04	≤-19.56	PASS
		2480	Reference	0.45	0.45	---	PASS
			30~1000	0.45	-51.51	≤-19.55	PASS
			1000~26500	0.45	-45.56	≤-19.55	PASS
2DH5	Ant	2402	Reference	-0.63	-0.63	---	PASS
			30~1000	-0.63	-53.12	≤-20.63	PASS
			1000~26500	-0.63	-40.8	≤-20.63	PASS
		2441	Reference	-0.59	-0.59	---	PASS
			30~1000	-0.59	-52.4	≤-20.59	PASS
			1000~26500	-0.59	-46	≤-20.59	PASS
		2480	Reference	-0.63	-0.63	---	PASS
			30~1000	-0.63	-53.22	≤-20.63	PASS
			1000~26500	-0.63	-45.58	≤-20.63	PASS
3DH5	Ant	2402	Reference	-1.04	-1.04	---	PASS
			30~1000	-1.04	-53.6	≤-21.04	PASS
			1000~26500	-1.04	-46.48	≤-21.04	PASS
		2441	Reference	-0.66	-0.66	---	PASS
			30~1000	-0.66	-52.62	≤-20.66	PASS
			1000~26500	-0.66	-46.87	≤-20.66	PASS
		2480	Reference	-0.83	-0.83	---	PASS
			30~1000	-0.83	-53.48	≤-20.83	PASS
			1000~26500	-0.83	-46.61	≤-20.83	PASS



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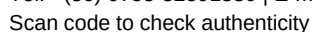
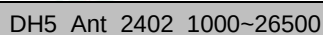
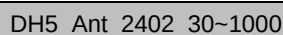
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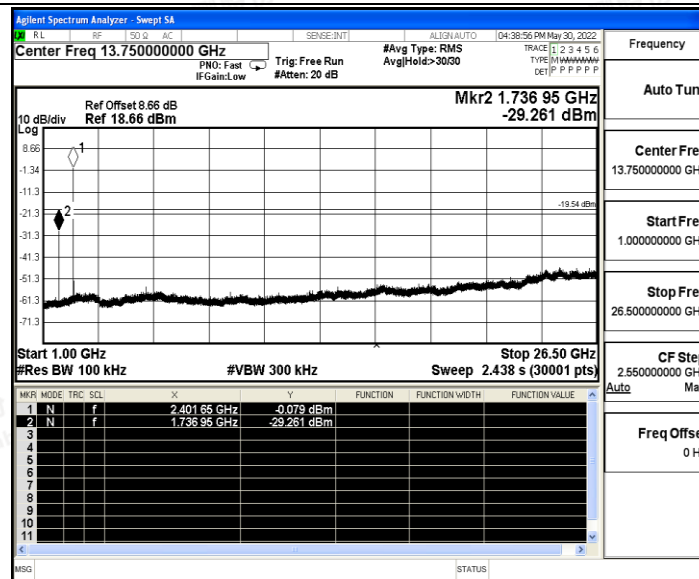
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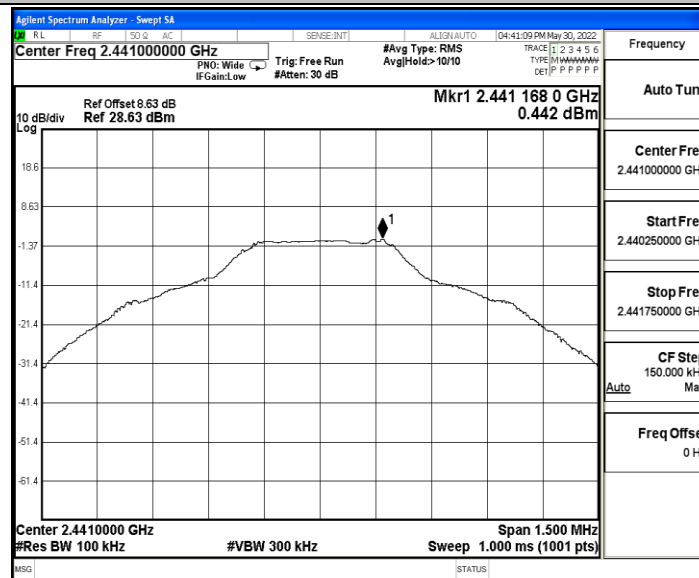


DH5 Ant 2402 0~Reference





DH5_Ant_2441_0~Reference



DH5_Ant_2441_30~1000

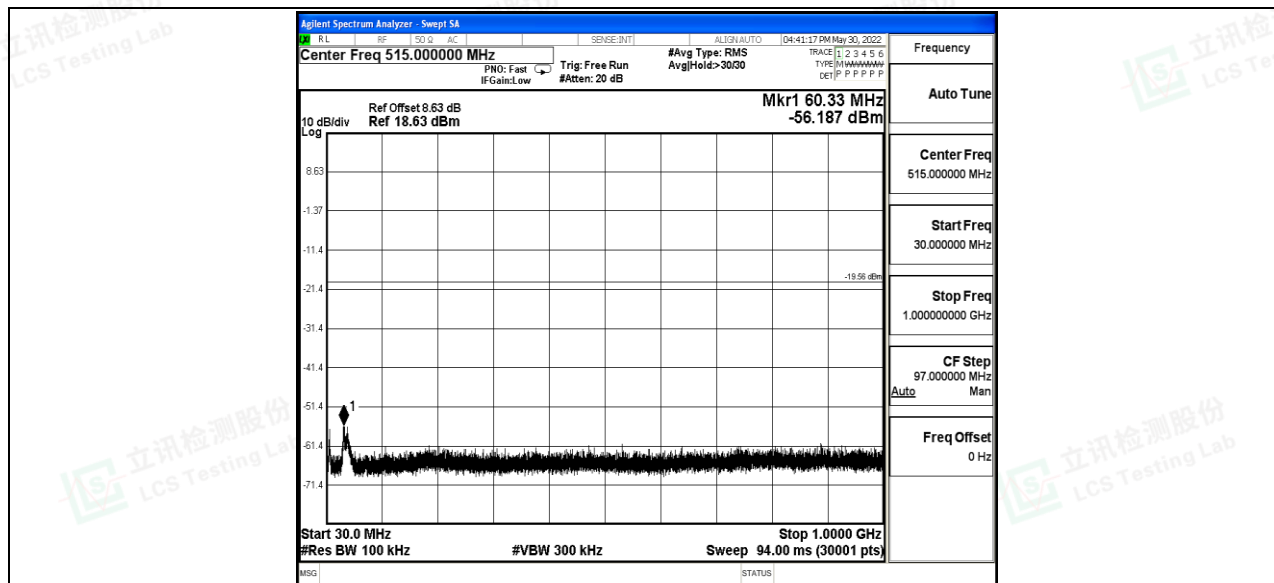


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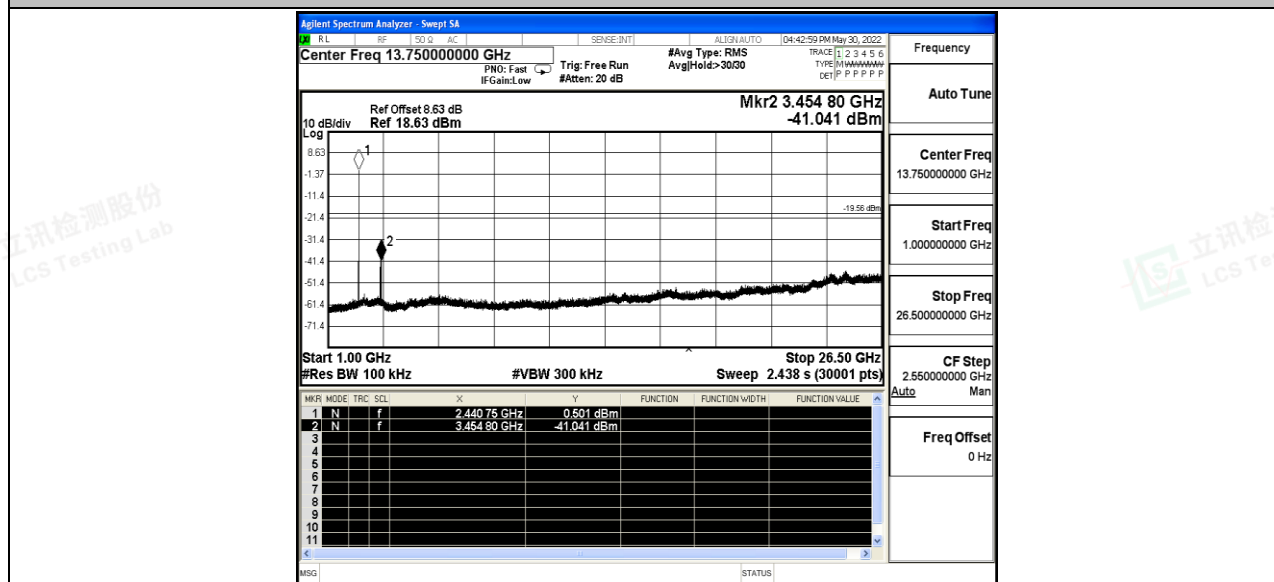
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DH5_Ant_2441_1000~26500



DH5_Ant_2480_0~Reference

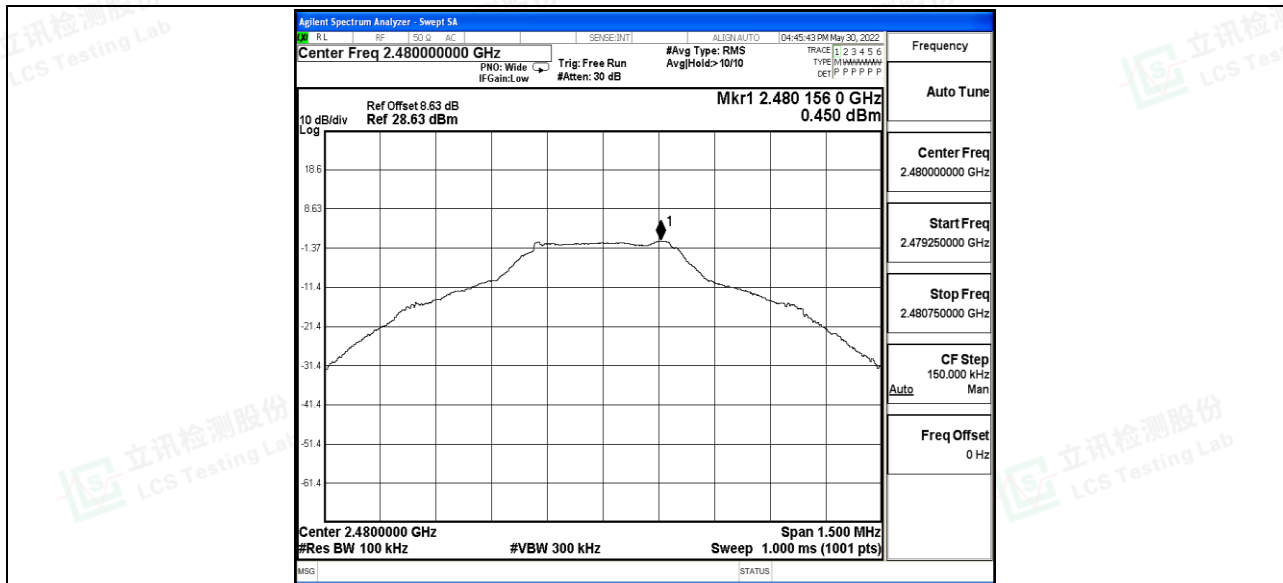


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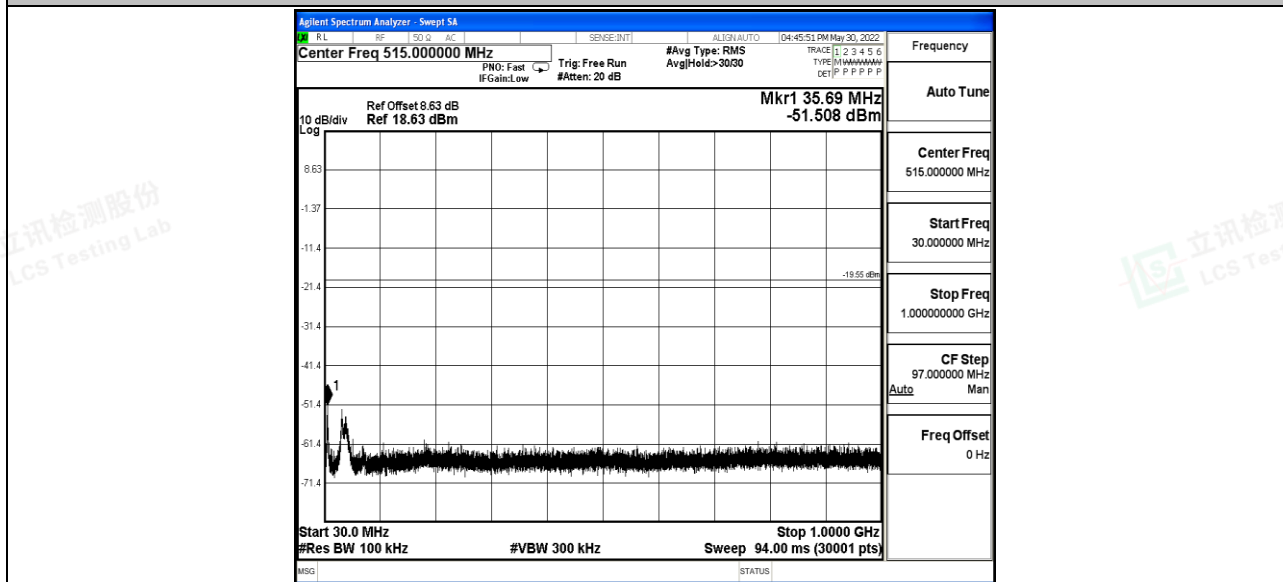
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DH5_Ant_2480_30~1000



DH5_Ant_2480_1000~26500

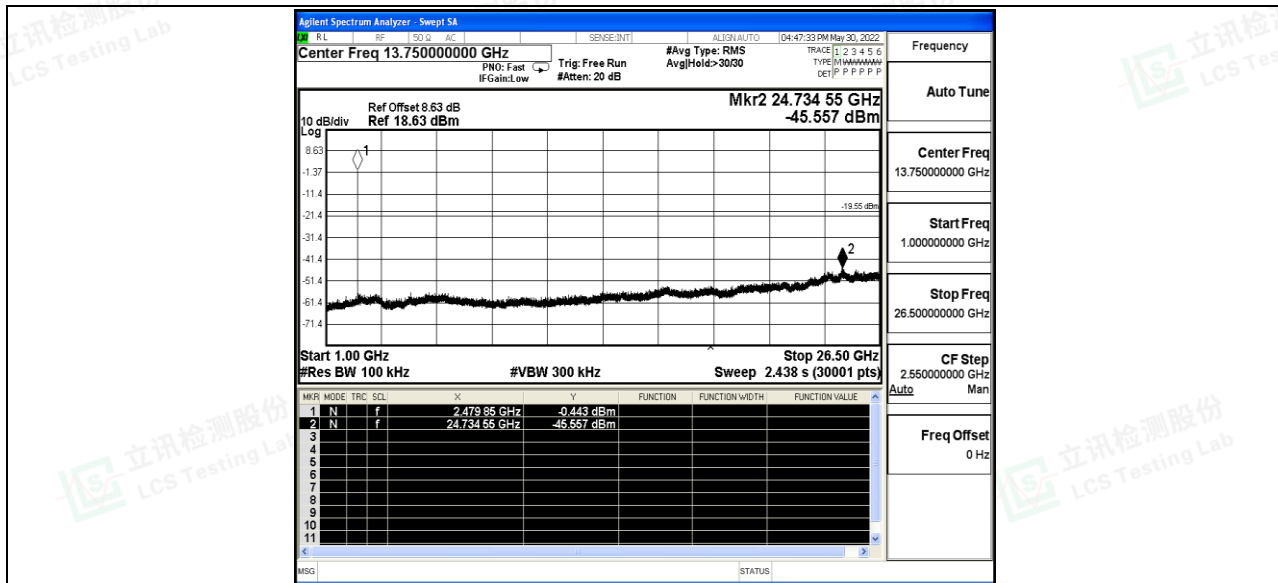


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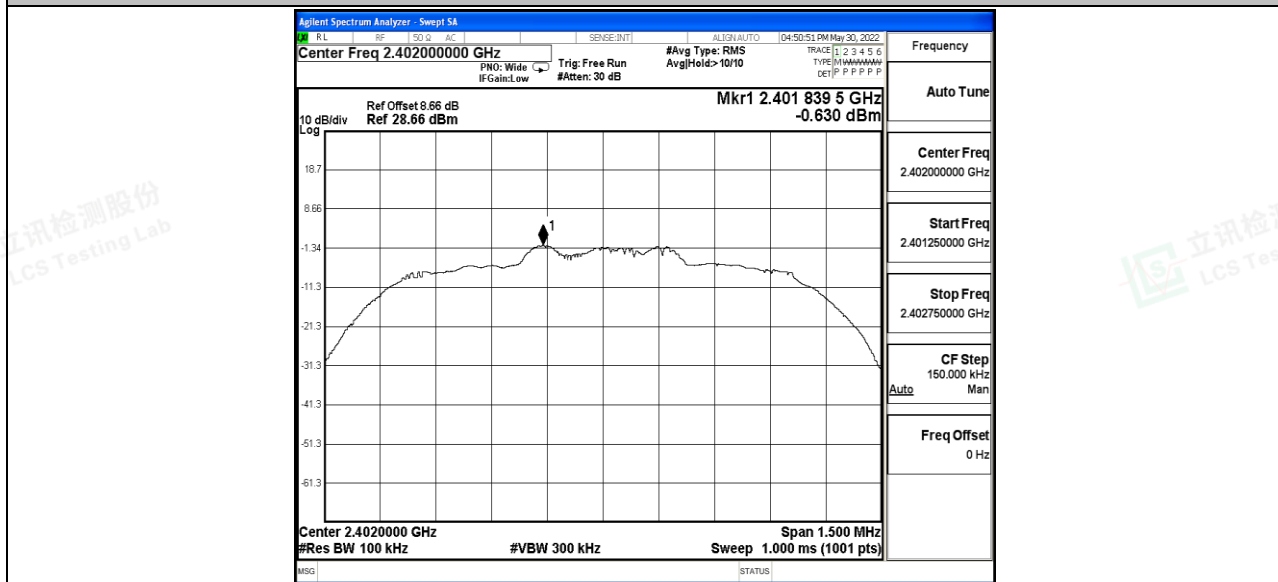
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2DH5_Ant_2402_0~Reference



2DH5_Ant_2402_30~1000

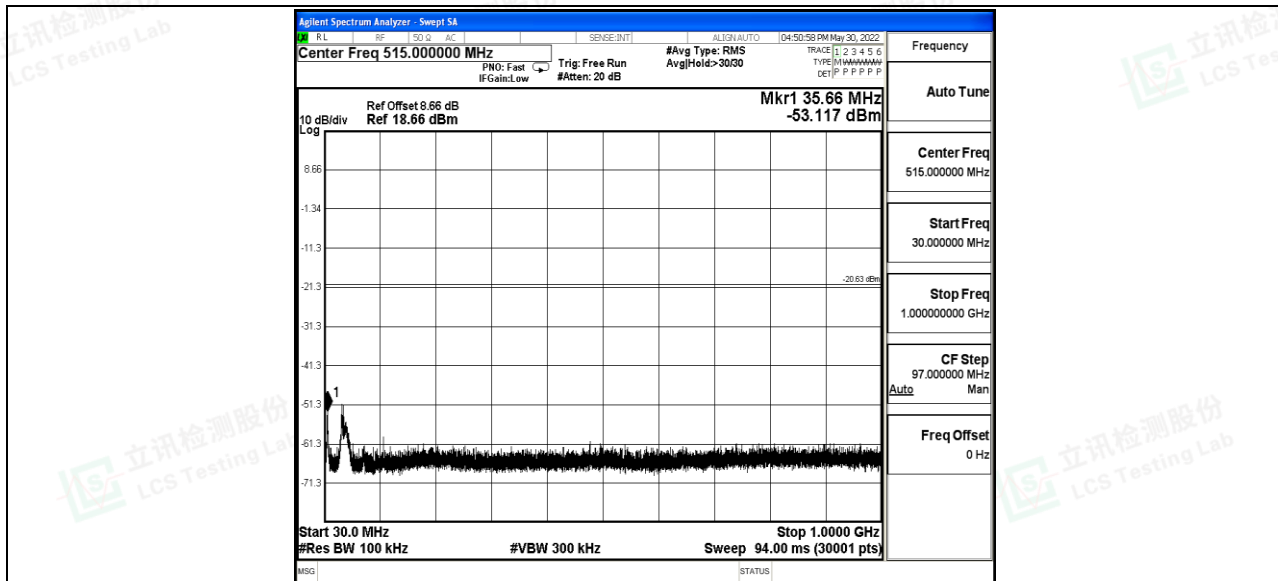


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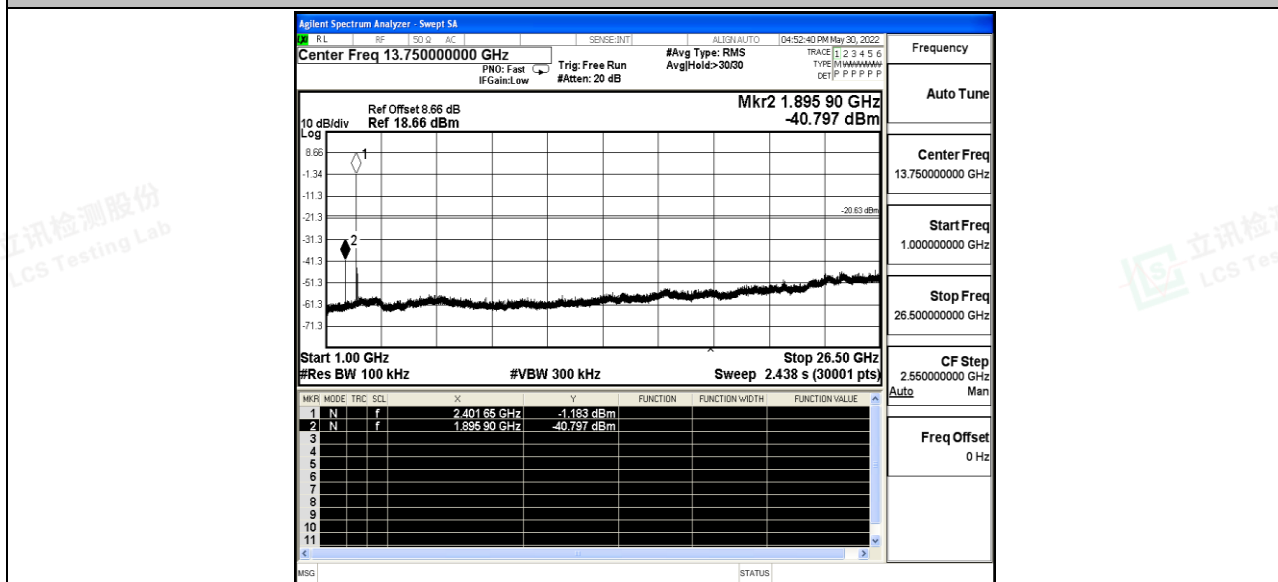
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2DH5_Ant_2402_1000~26500



2DH5_Ant_2441_0~Reference

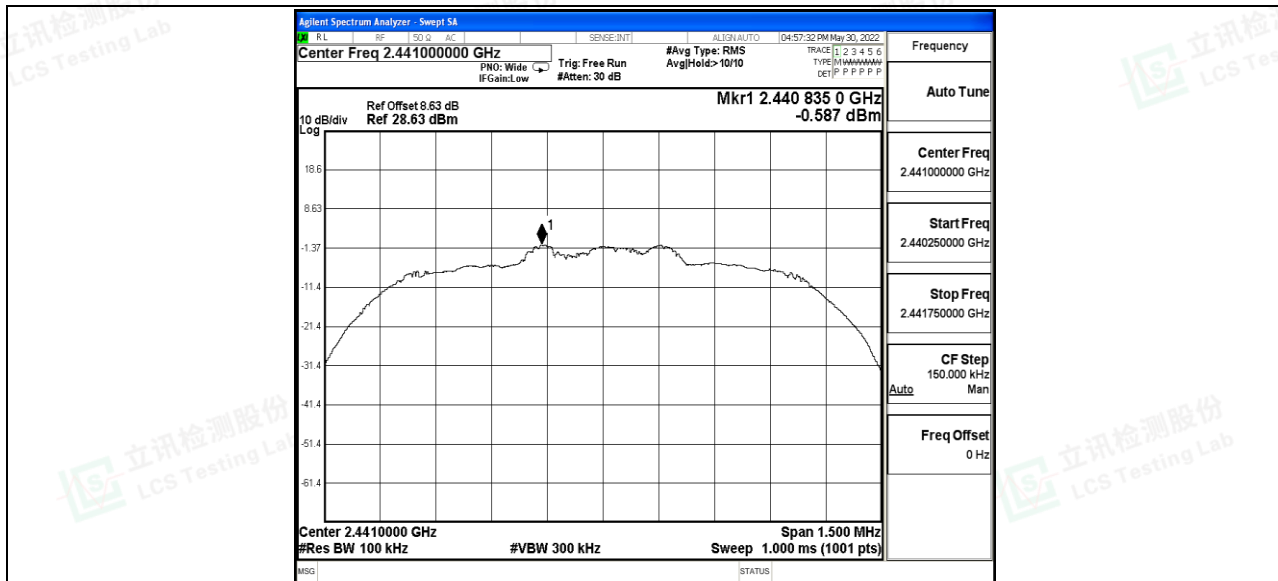


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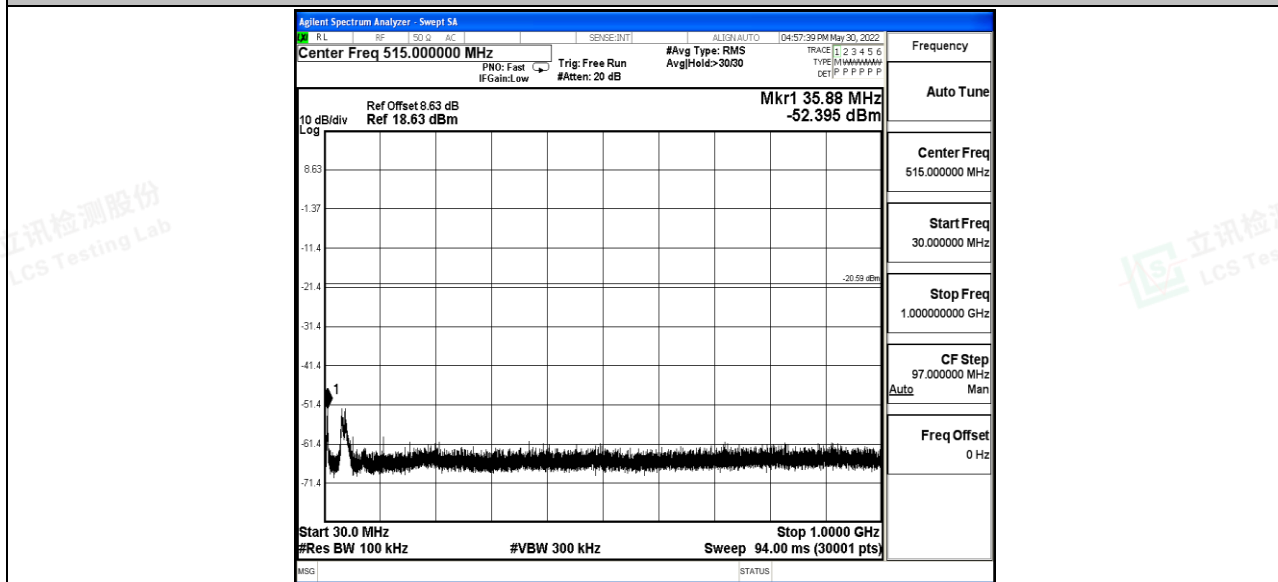
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2DH5_Ant_2441_30~1000



2DH5_Ant_2441_1000~26500

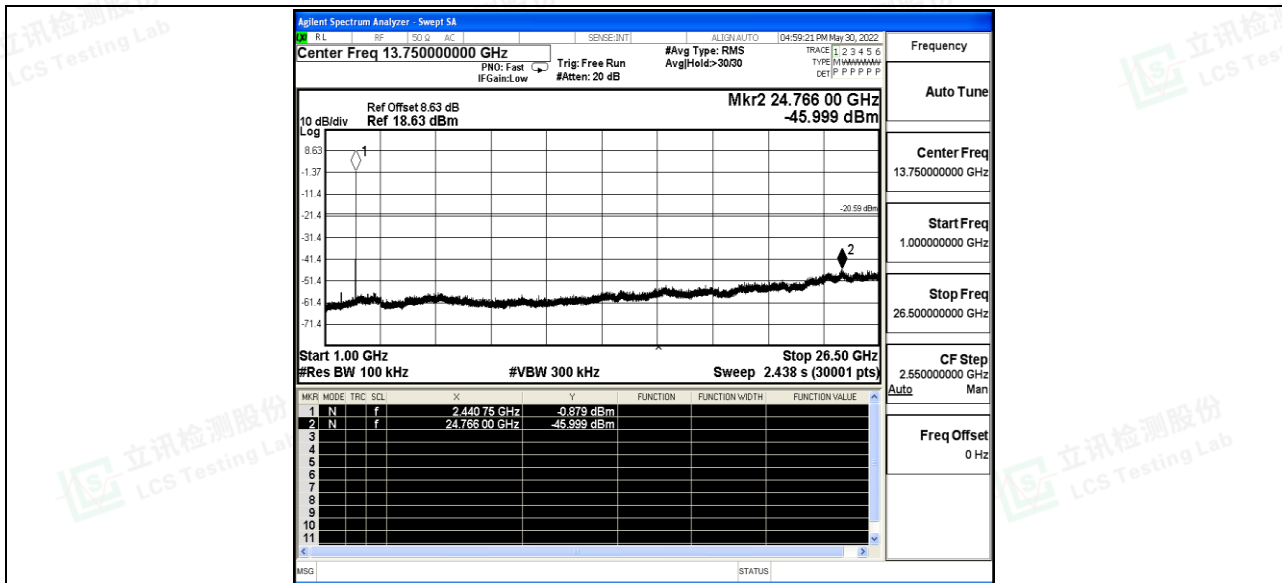


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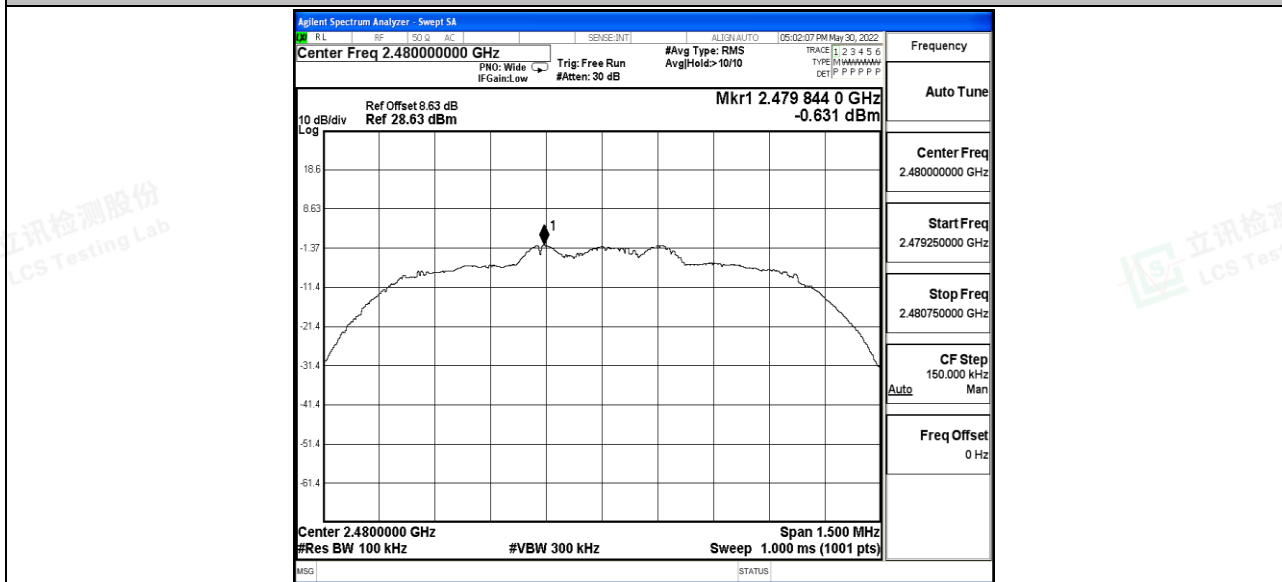
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2DH5_Ant_2480_0~Reference



2DH5_Ant_2480_30~1000

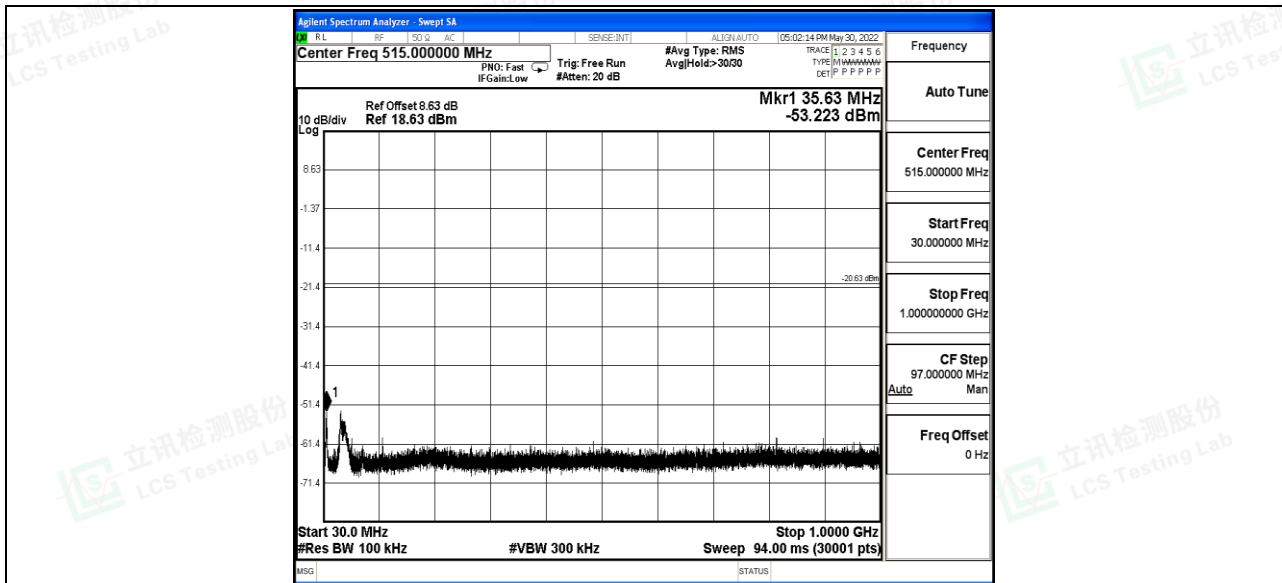


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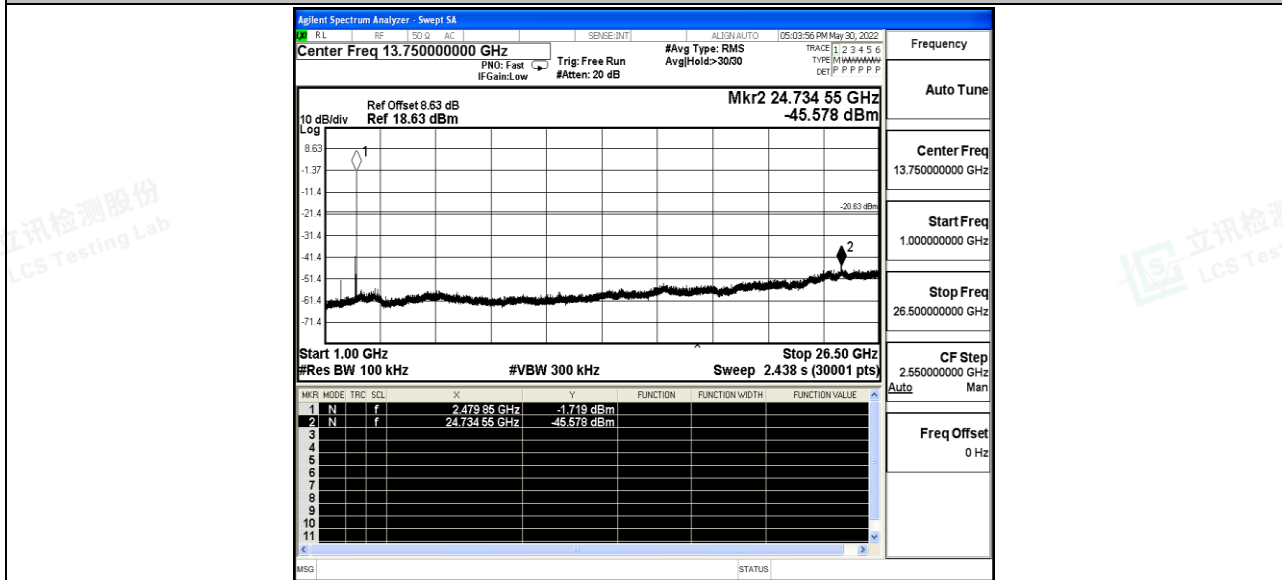
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2DH5_Ant_2480_1000~26500



3DH5_Ant_2402_0~Reference

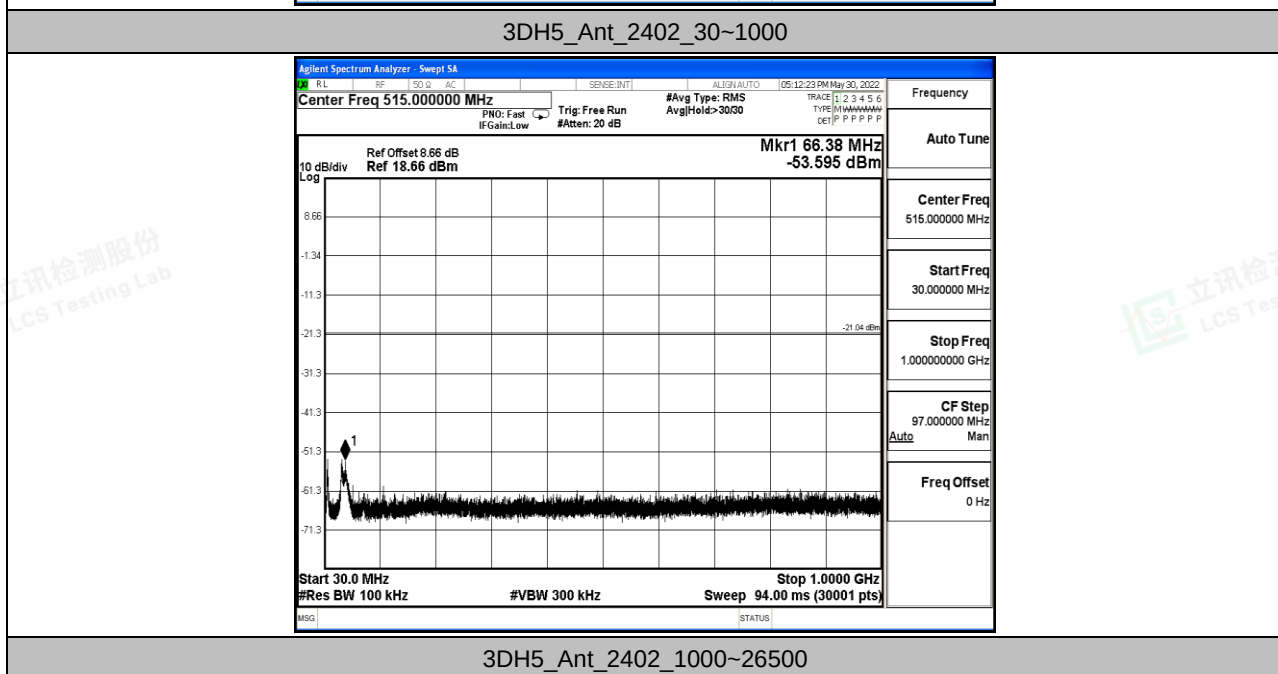
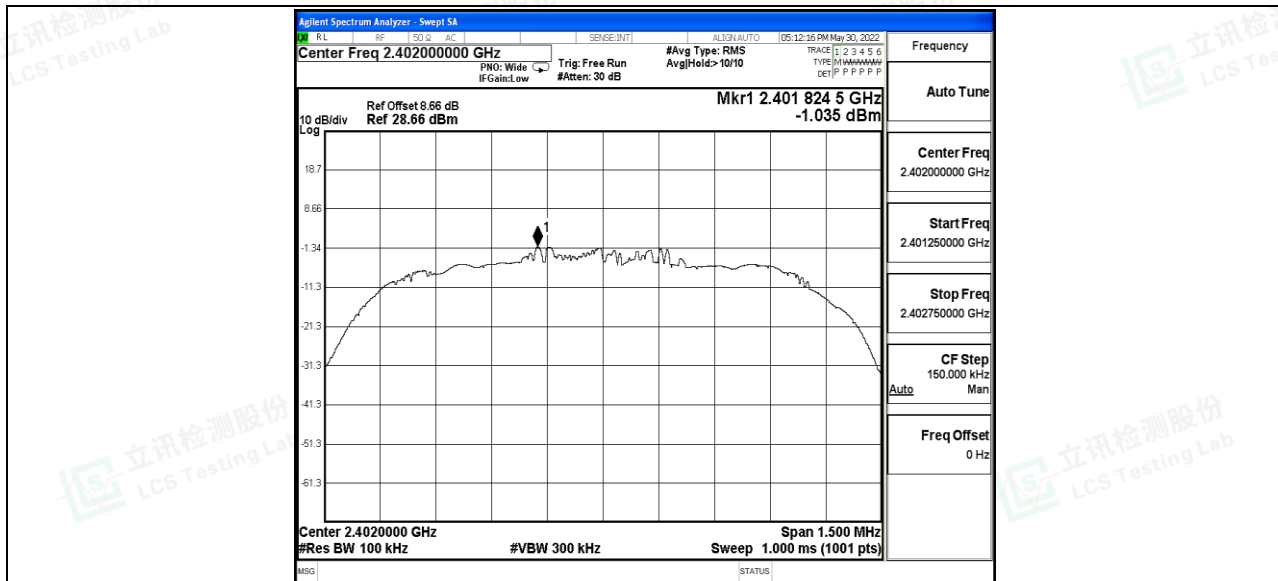


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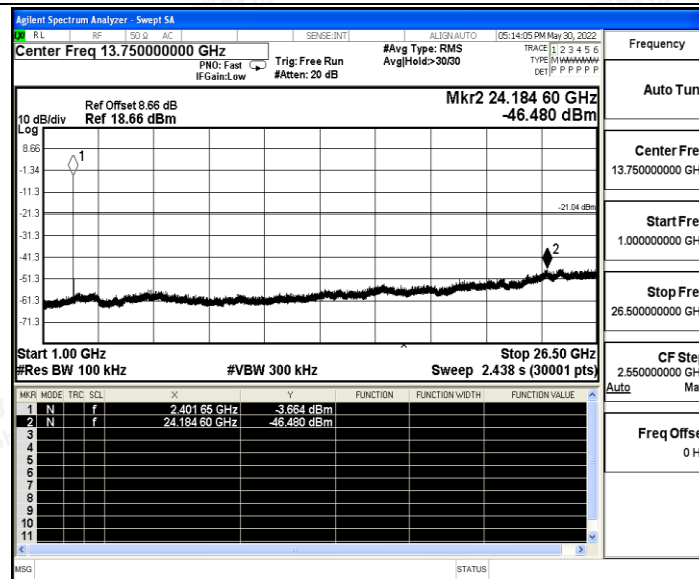


Shenzhen LCS Compliance Testing Laboratory Ltd.

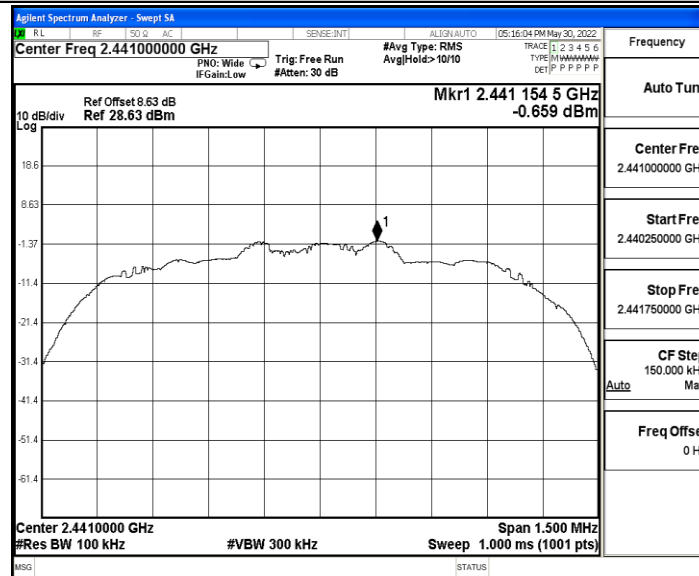
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3DH5_Ant_2441_0~Reference



3DH5_Ant_2441_30~1000

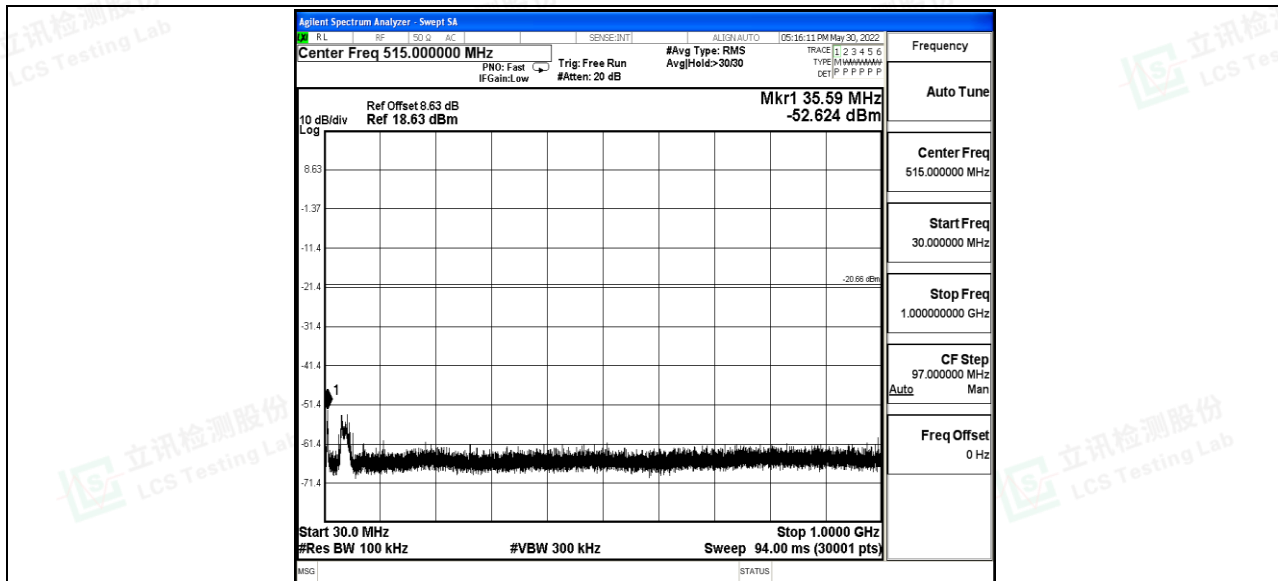


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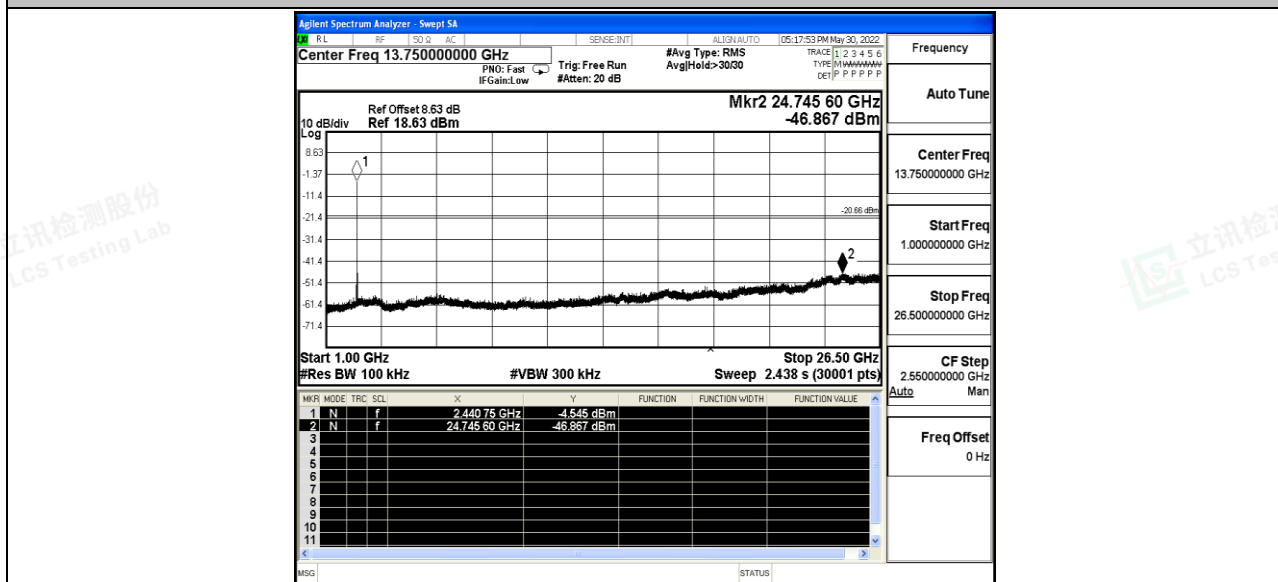
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3DH5_Ant_2441_1000~26500



3DH5_Ant_2480_0~Reference

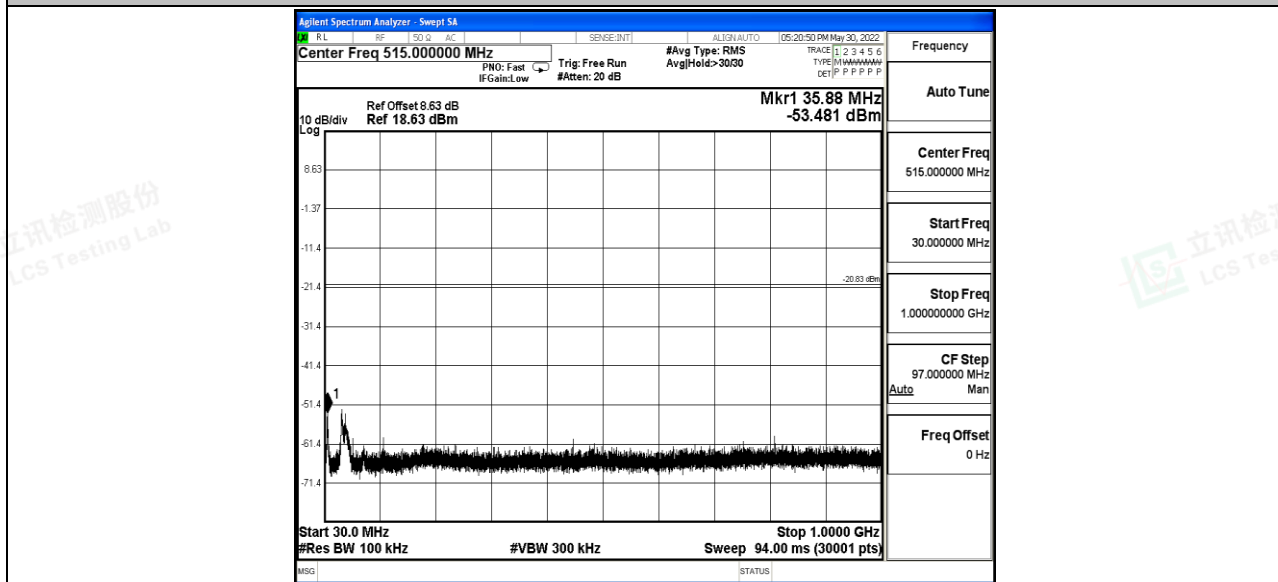
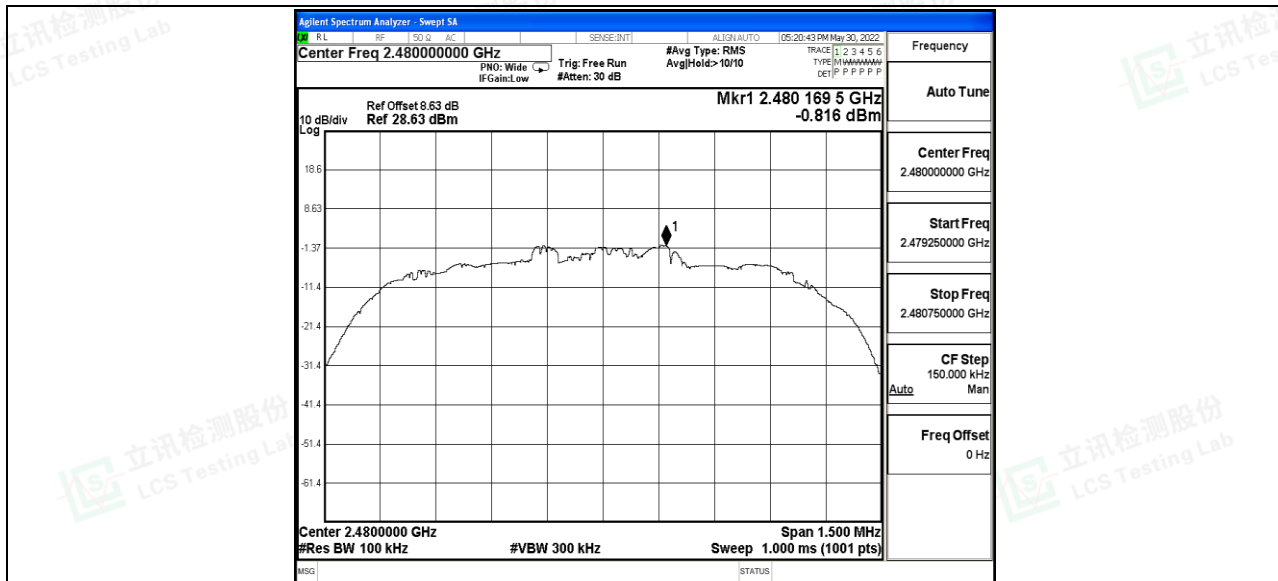


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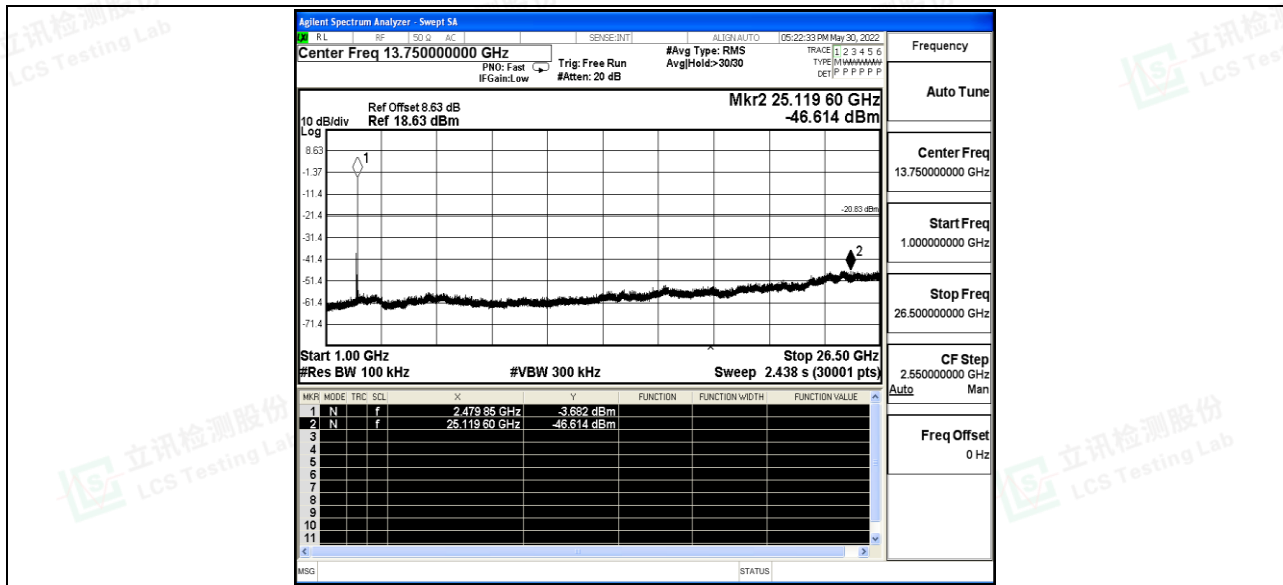


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A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	Channel Name	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant	Low	2402	AV	2310.000	-48.14	≤-41.20	47.06	≤54	PASS
				AV	2384.945	-47.54	≤-41.20	47.66	≤54	PASS
				AV	2390.000	-47.79	≤-41.20	47.41	≤54	PASS
				Peak	2310.000	-38.3	≤-21.20	56.90	≤74	PASS
				Peak	2328.875	-36.26	≤-21.20	58.94	≤74	PASS
				Peak	2390.000	-38.33	≤-21.20	56.87	≤74	PASS
		High	2480	AV	2483.500	-45.68	≤-41.20	49.52	≤54	PASS
				AV	2483.520	-45.68	≤-41.20	49.52	≤54	PASS
				AV	2500.000	-47.19	≤-41.20	48.01	≤54	PASS
				Peak	2483.500	-37.12	≤-21.20	58.08	≤74	PASS
				Peak	2484.640	-35.2	≤-21.20	60.00	≤74	PASS
				Peak	2500.000	-37.05	≤-21.20	58.15	≤74	PASS
2DH5	Ant	Low	2402	AV	2310.000	-48.12	≤-41.20	47.08	≤54	PASS
				AV	2389.040	-47.64	≤-41.20	47.56	≤54	PASS
				AV	2390.000	-47.73	≤-41.20	47.47	≤54	PASS
				Peak	2310.000	-37.39	≤-21.20	57.81	≤74	PASS
				Peak	2389.250	-36.51	≤-21.20	58.69	≤74	PASS
				Peak	2390.000	-38.38	≤-21.20	56.82	≤74	PASS
		High	2480	AV	2483.500	-45.78	≤-41.20	49.42	≤54	PASS
				AV	2483.520	-45.78	≤-41.20	49.42	≤54	PASS
				AV	2500.000	-47.17	≤-41.20	48.03	≤54	PASS
				Peak	2483.500	-37.49	≤-21.20	57.71	≤74	PASS
				Peak	2486.880	-35.53	≤-21.20	59.67	≤74	PASS
				Peak	2500.000	-37.26	≤-21.20	57.94	≤74	PASS
3DH5	Ant	Low	2402	AV	2310.000	-48.21	≤-41.20	46.99	≤54	PASS
				AV	2388.935	-47.64	≤-41.20	47.56	≤54	PASS
				AV	2390.000	-47.69	≤-41.20	47.51	≤54	PASS
				Peak	2310.000	-38.84	≤-21.20	56.36	≤74	PASS
				Peak	2358.800	-36.07	≤-21.20	59.13	≤74	PASS
				Peak	2390.000	-38.26	≤-21.20	56.94	≤74	PASS
		High	2480	AV	2483.500	-45.58	≤-41.20	49.62	≤54	PASS
				AV	2483.520	-45.58	≤-41.20	49.62	≤54	PASS
				AV	2500.000	-47.16	≤-41.20	48.04	≤54	PASS
				Peak	2483.500	-37.98	≤-21.20	57.22	≤74	PASS



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				Peak	2495.040	-35.76	≤-21.20	59.44	≤74	PASS
				Peak	2500.000	-37.58	≤-21.20	57.62	≤74	PASS

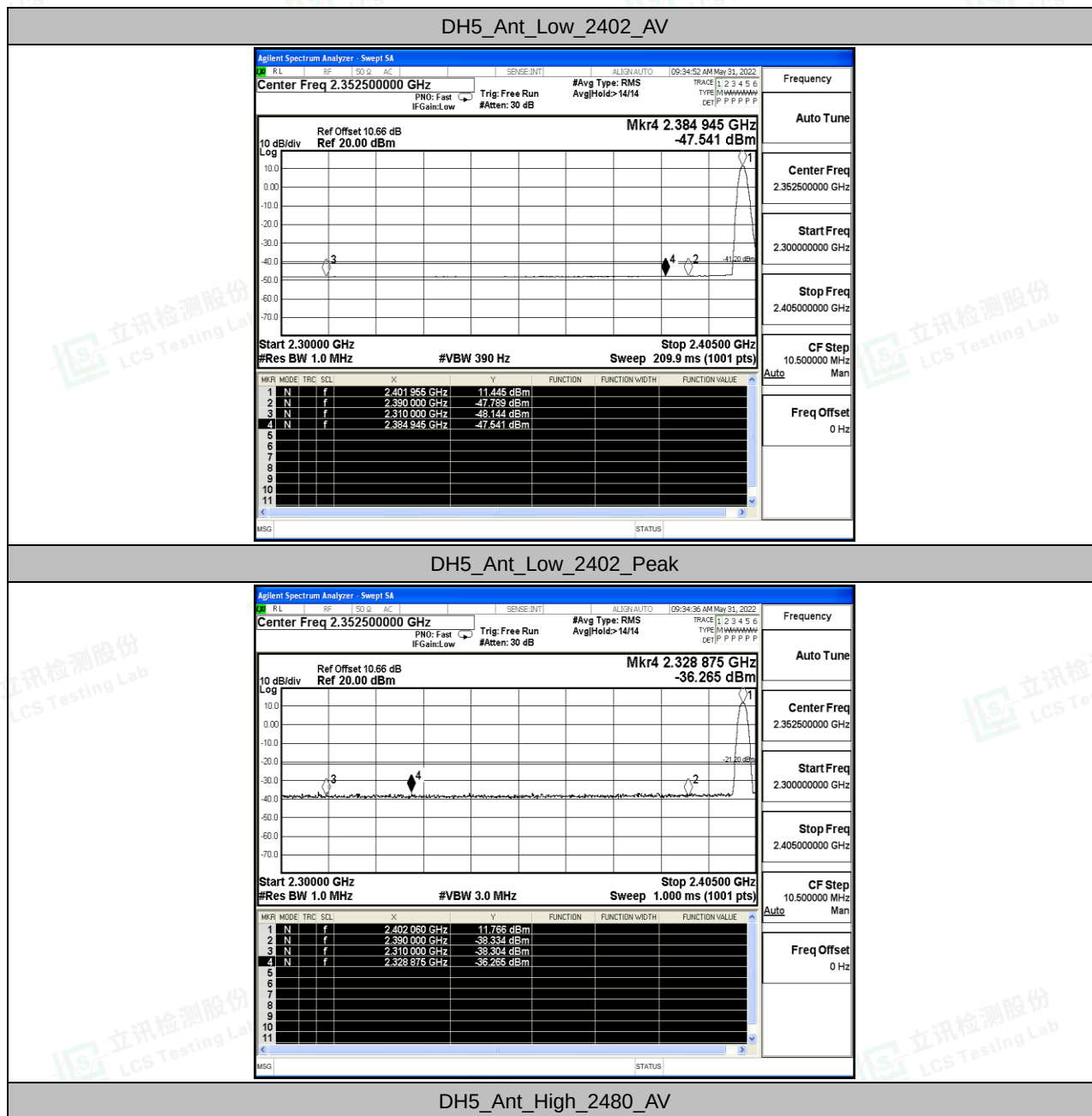
Note:

- 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

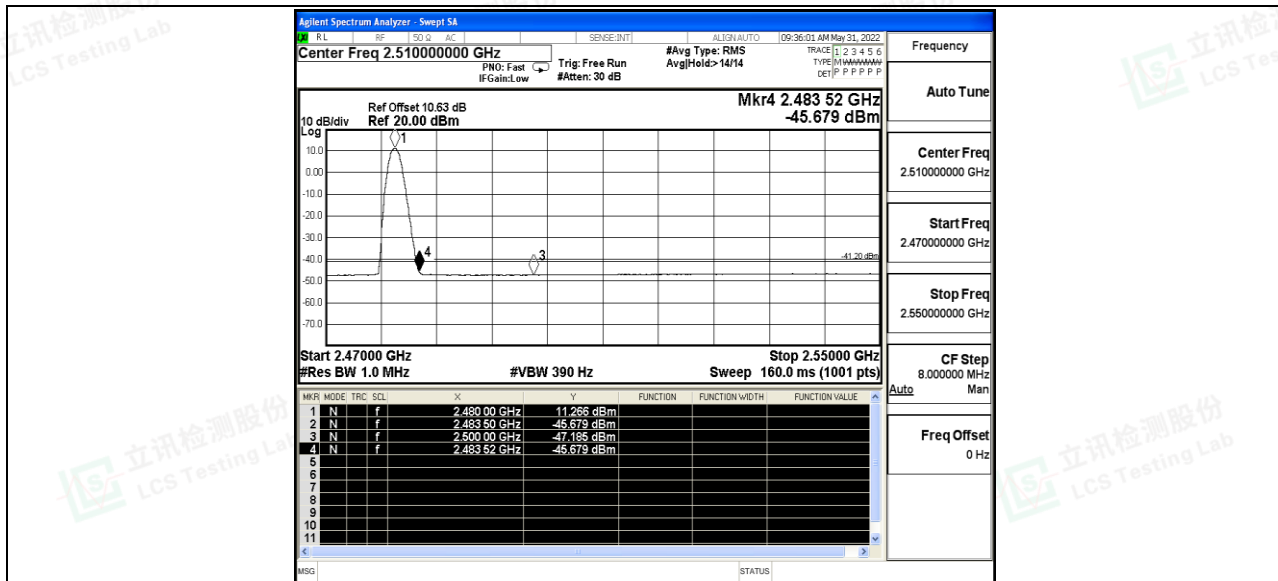


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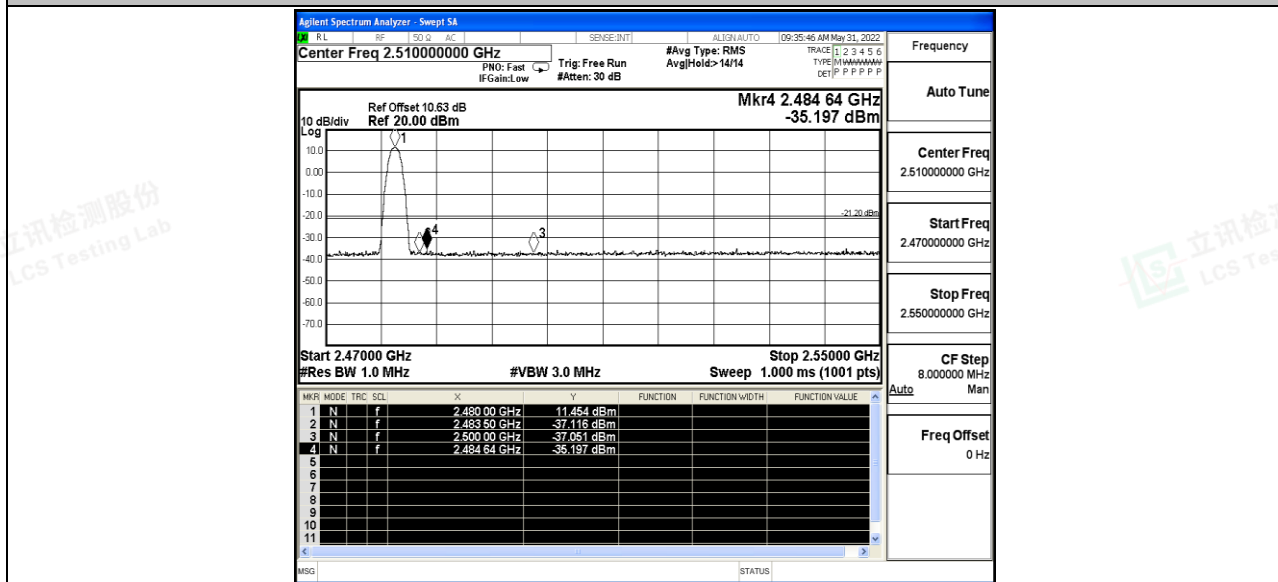
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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DH5_Ant_High_2480_Peak



2DH5_Ant_Low_2402_AV

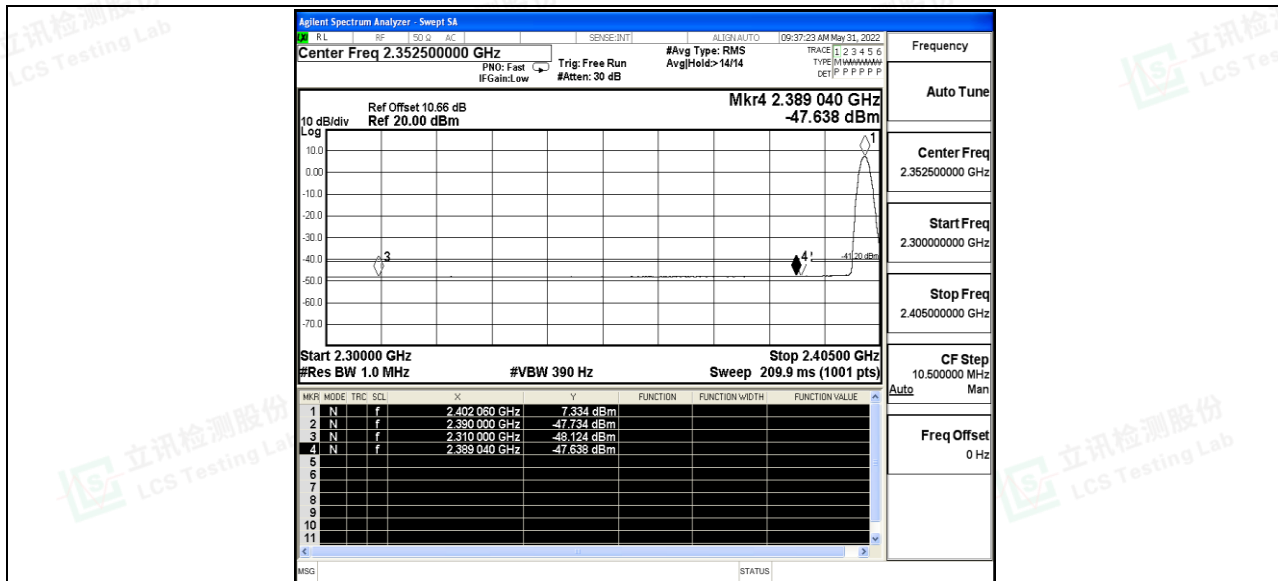


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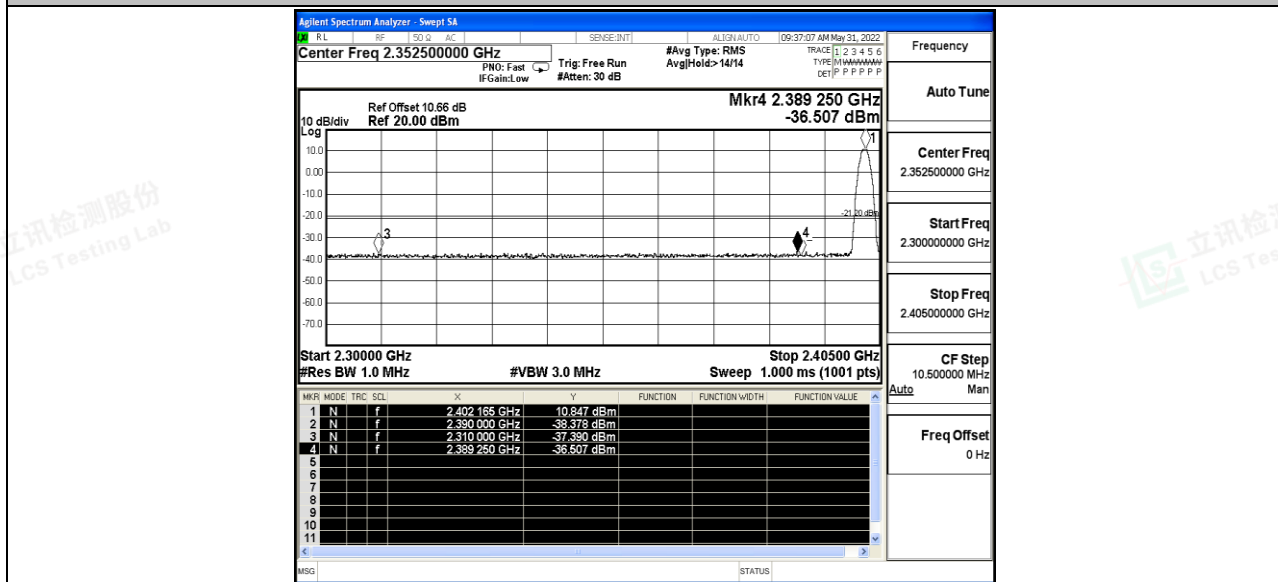
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2DH5_Ant_Low_2402_Peak



2DH5_Ant_High_2480_AV

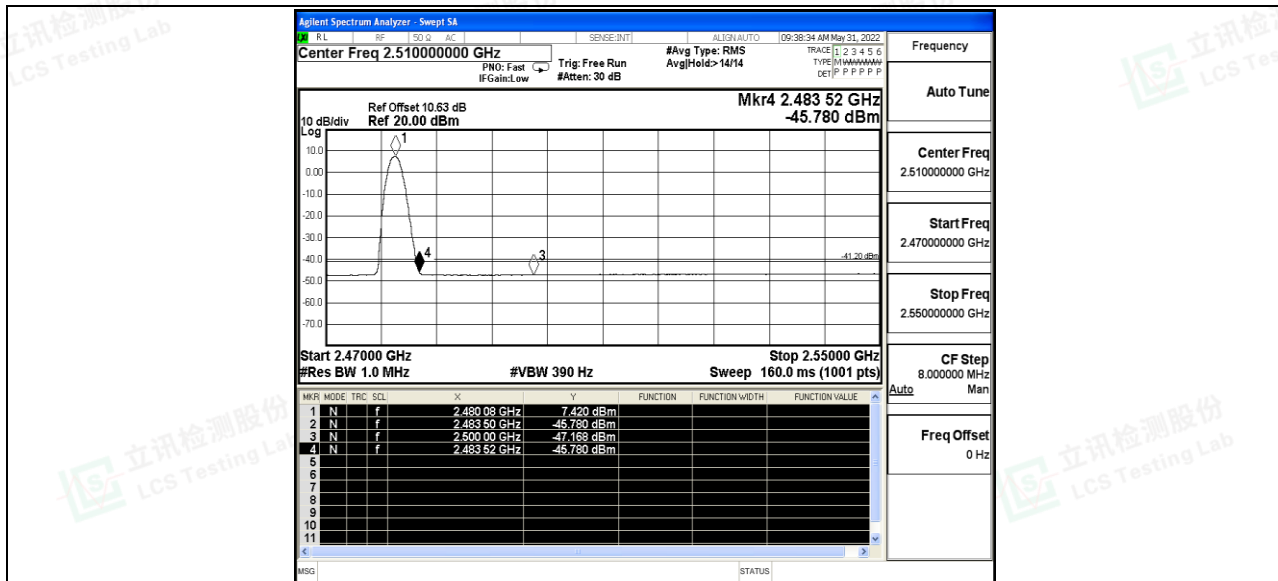


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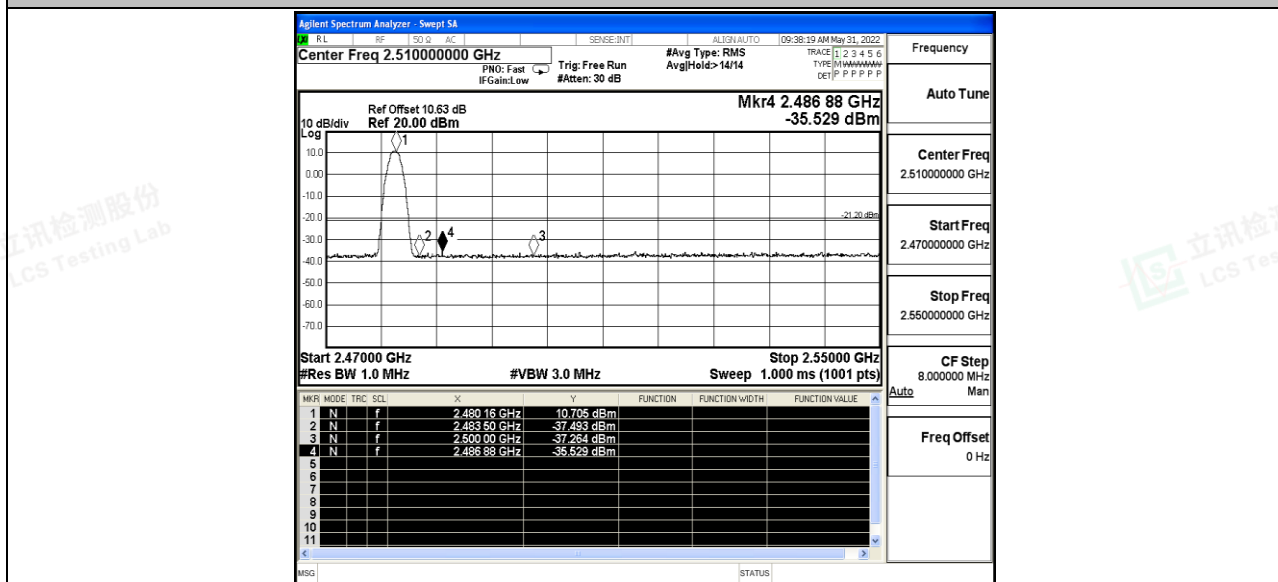
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2DH5_Ant_High_2480_Peak



3DH5_Ant_Low_2402_AV

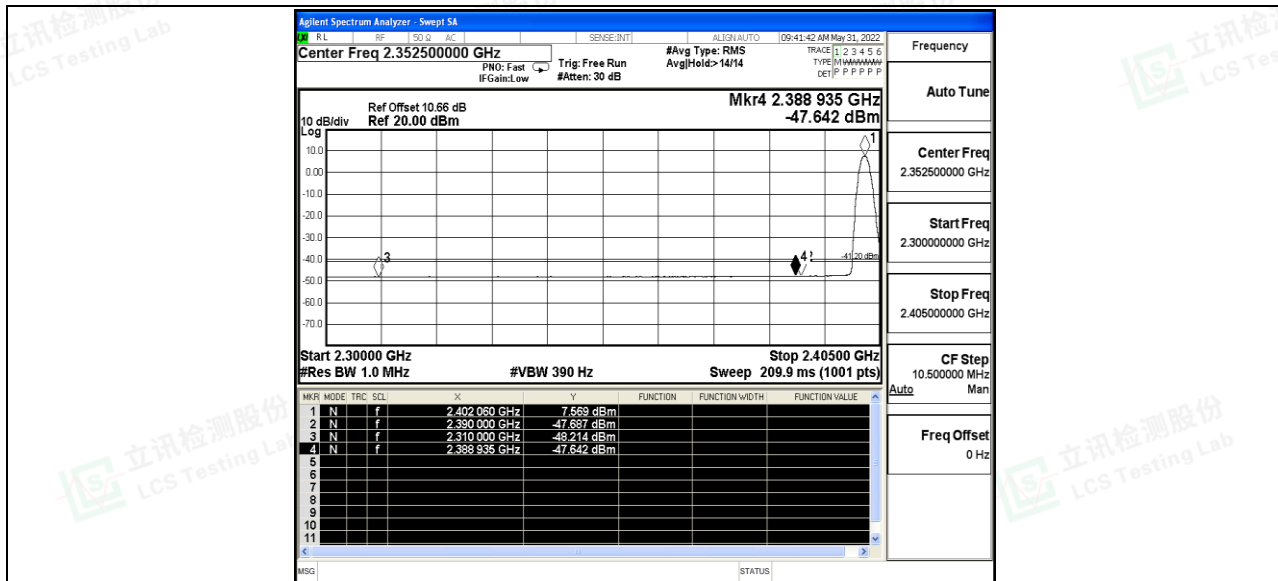


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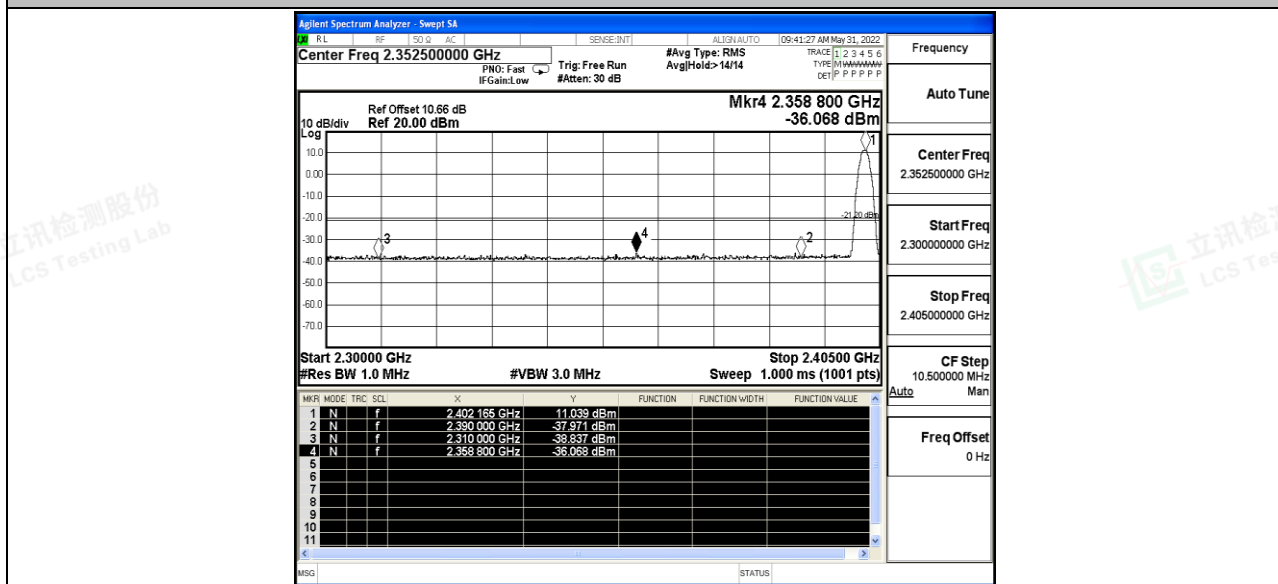
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3DH5_Ant_Low_2402_Peak



3DH5_Ant_High_2480_AV

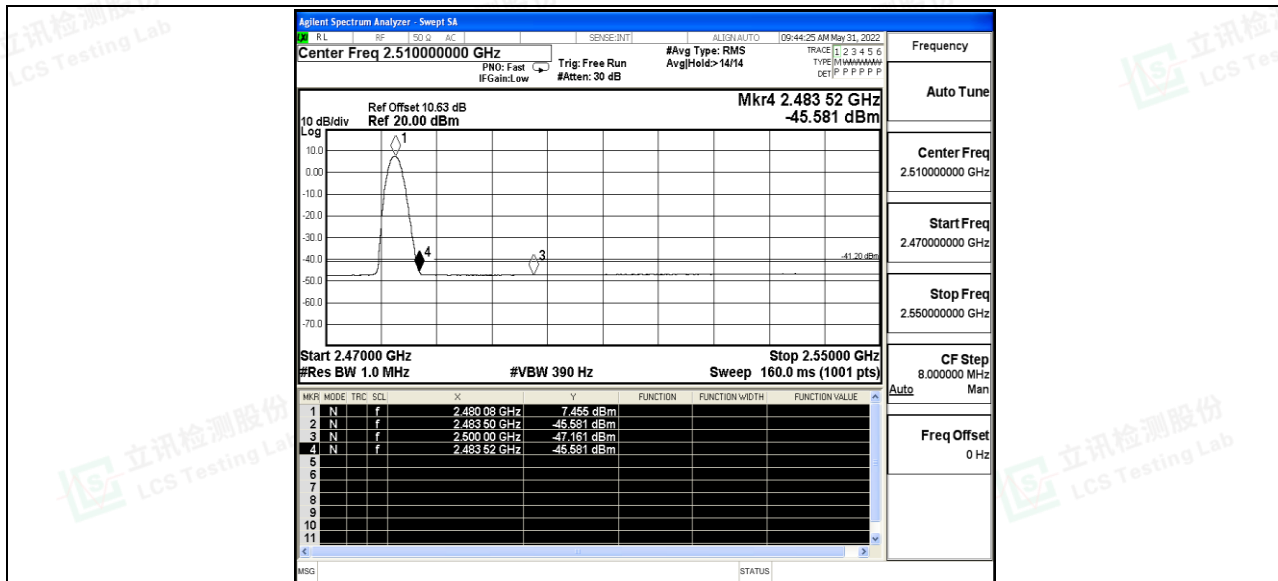


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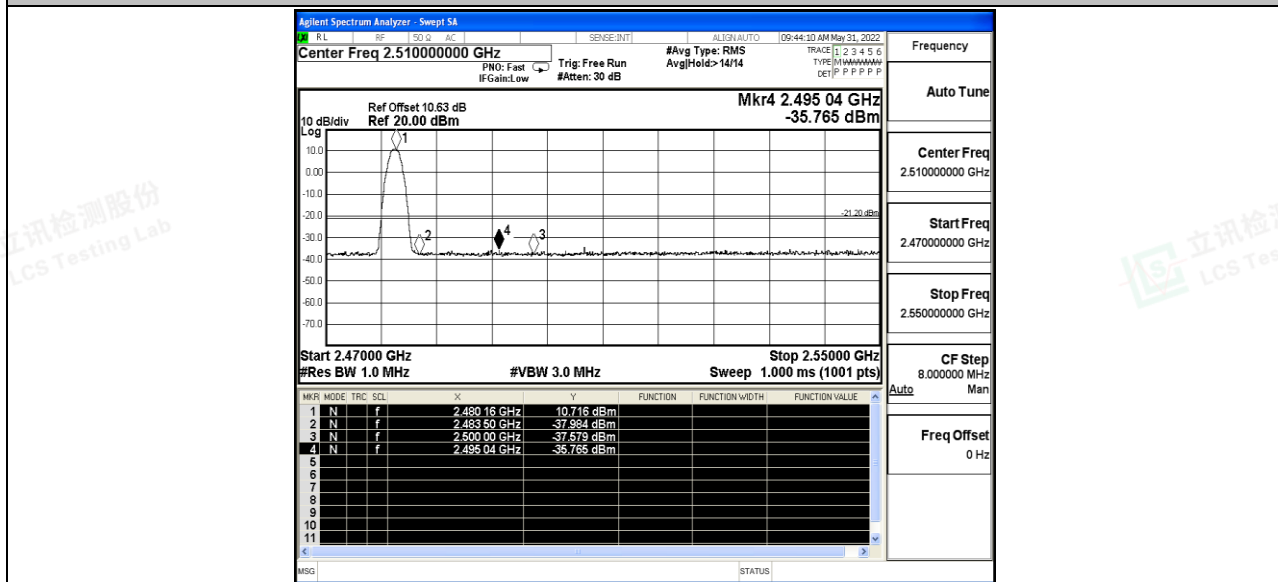
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3DH5_Ant_High_2480_Peak



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