



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Kids Smartwatch

Test Model: XGO3

Environmental Conditions

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





A.1 20dB Emission Bandwidth

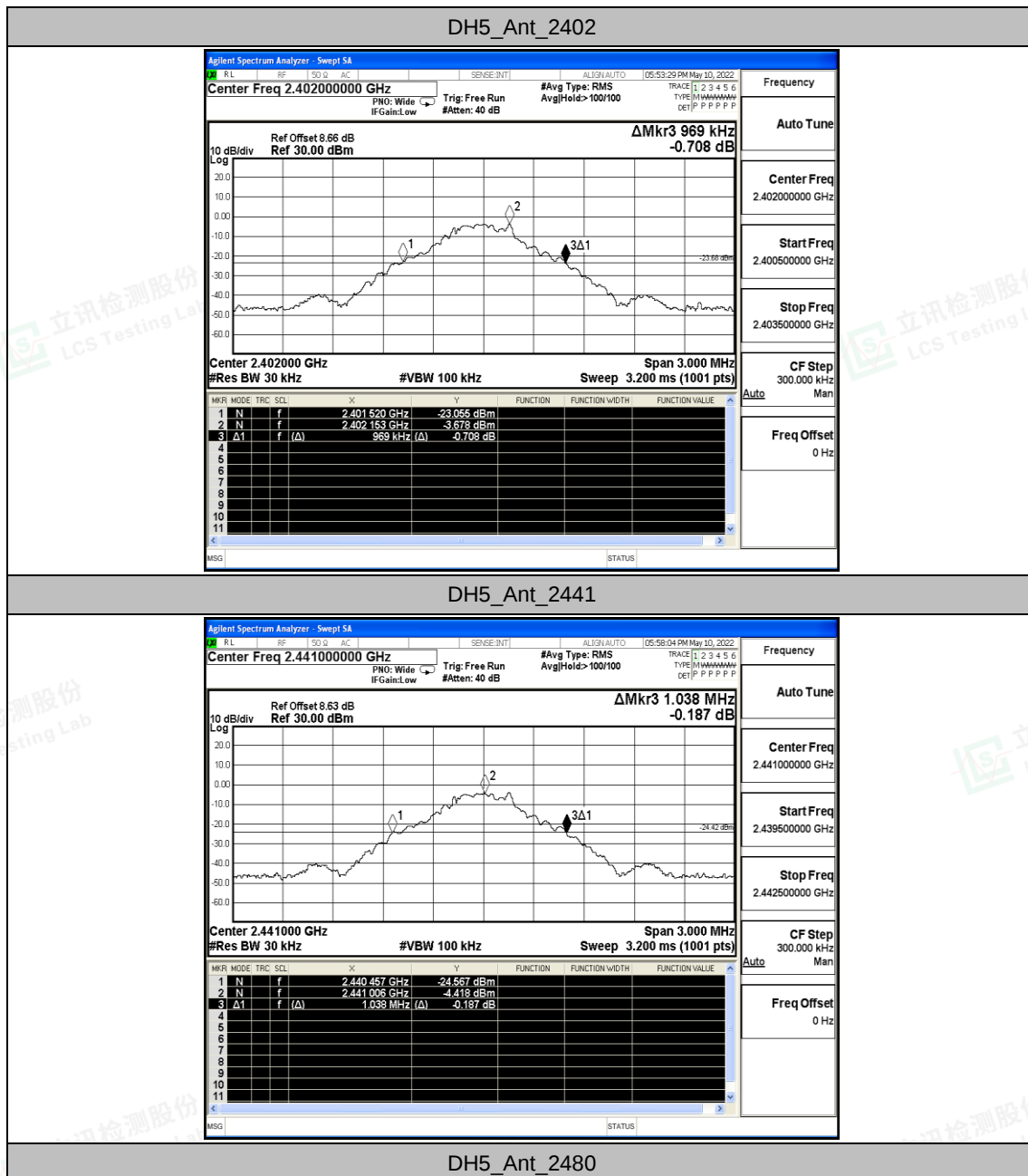
Test Result

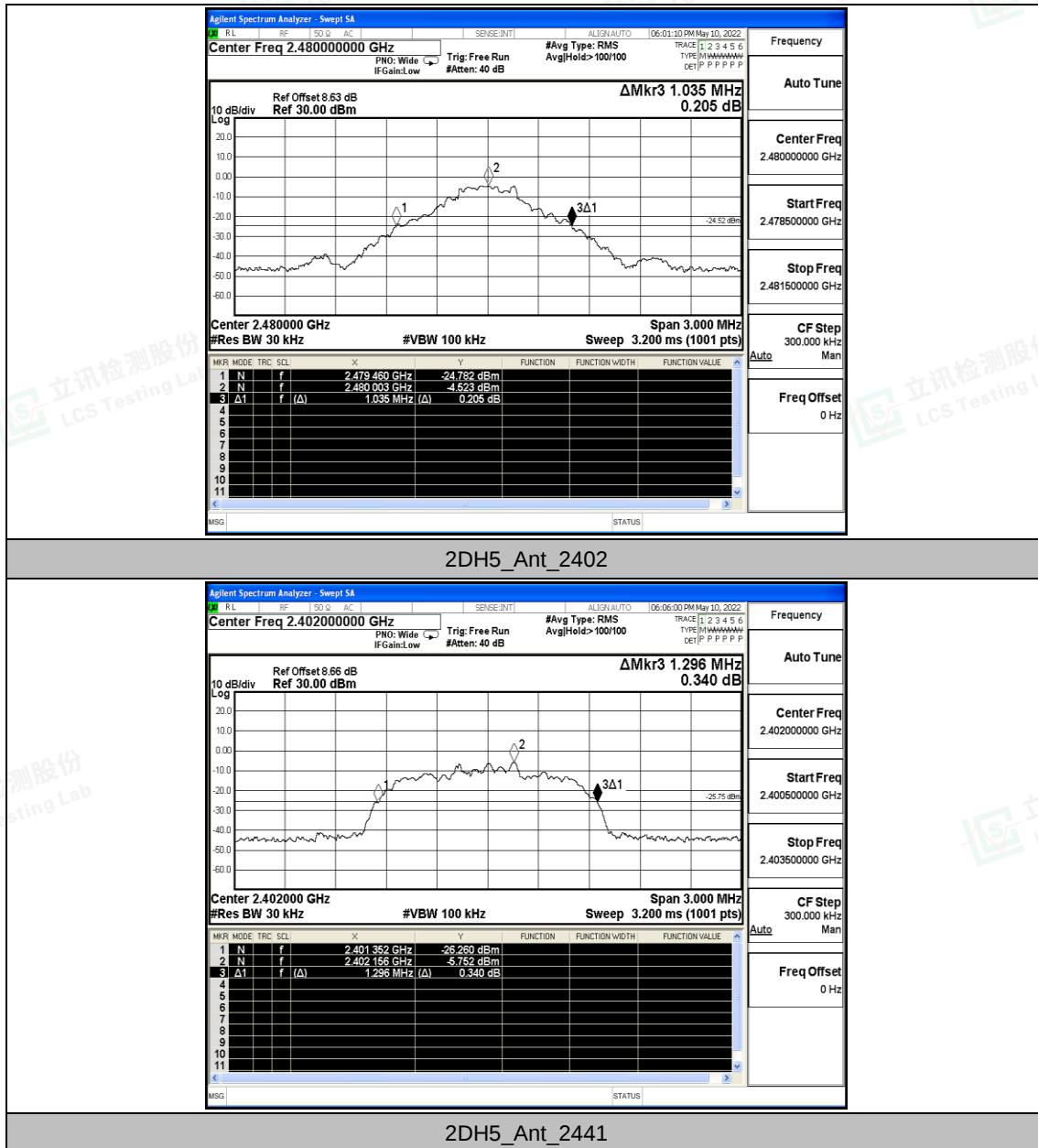
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant	2402	0.969	2401.520	2402.489	---	---
		2441	1.038	2440.457	2441.495	---	---
		2480	1.035	2479.460	2480.495	---	---
2DH5	Ant	2402	1.296	2401.352	2402.648	---	---
		2441	1.293	2440.355	2441.648	---	---
		2480	1.293	2479.355	2480.648	---	---
3DH5	Ant	2402	1.290	2401.343	2402.633	---	---
		2441	1.302	2440.346	2441.648	---	---
		2480	1.308	2479.343	2480.651	---	---





Test Graphs



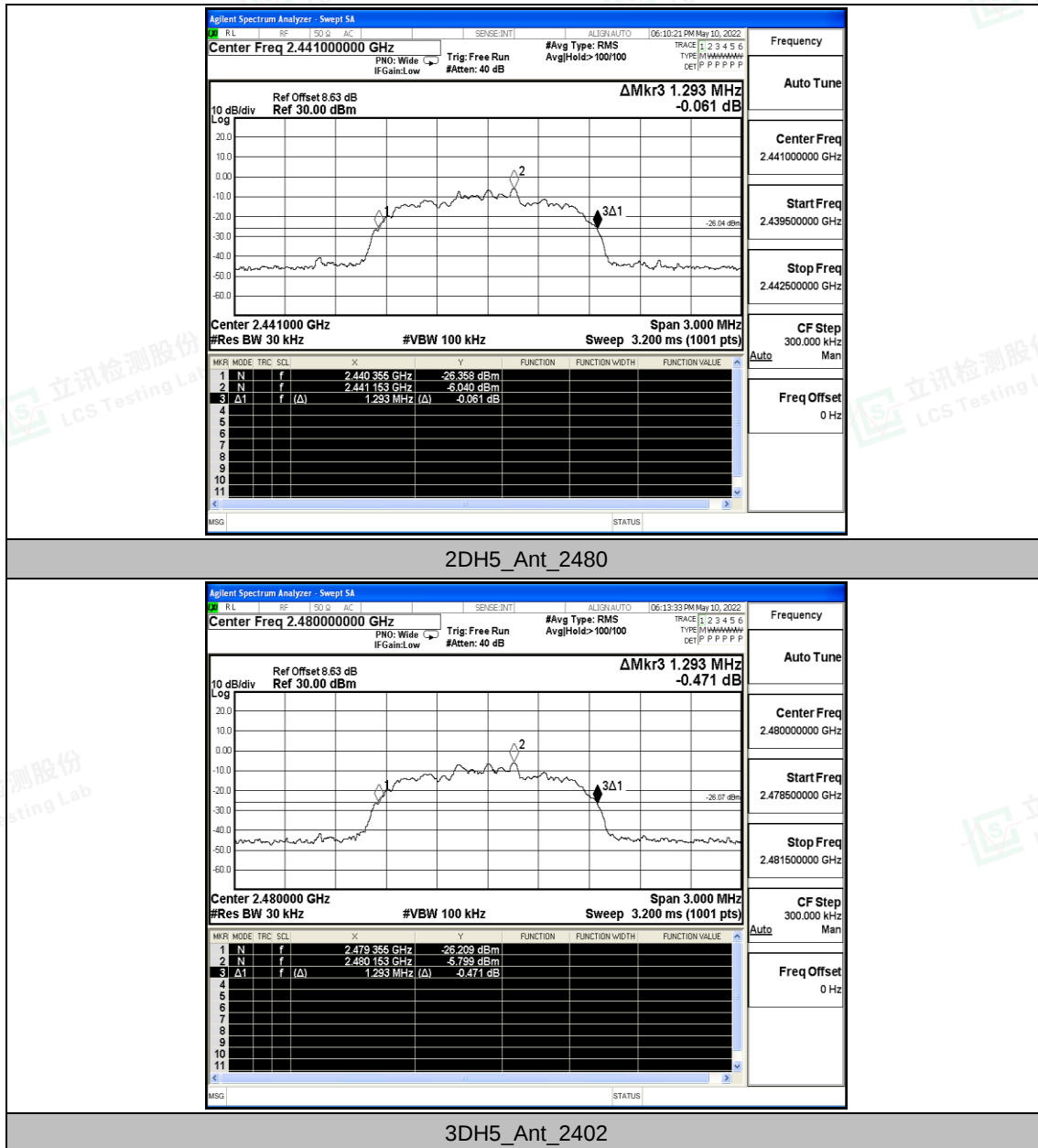


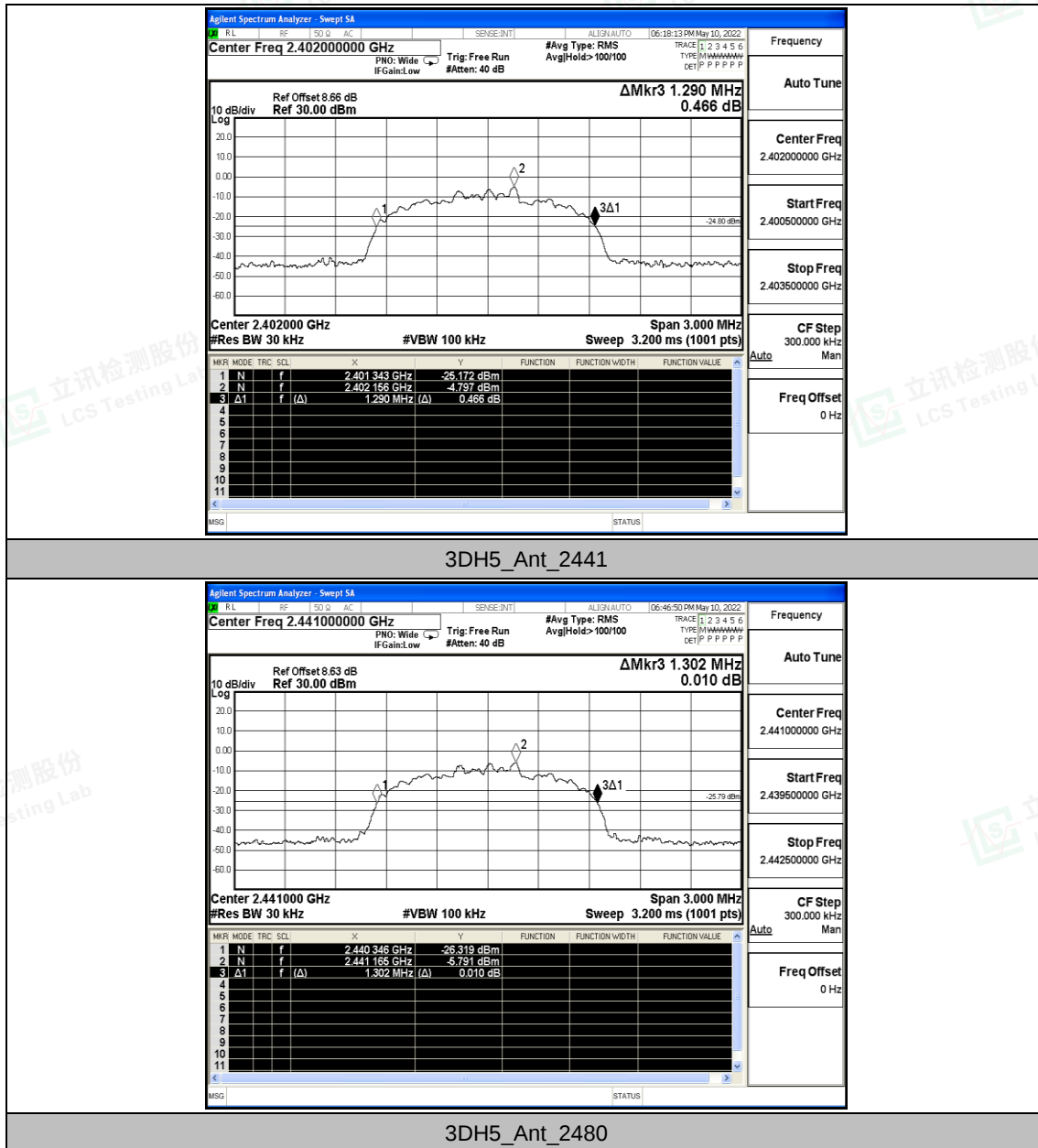
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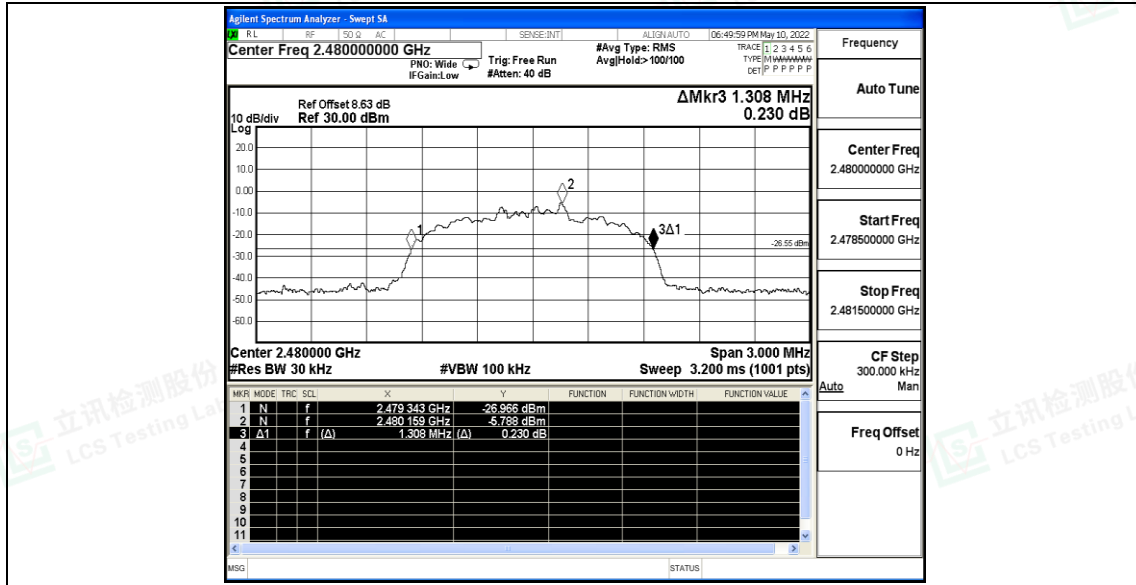
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A.2 Maximum conducted output power

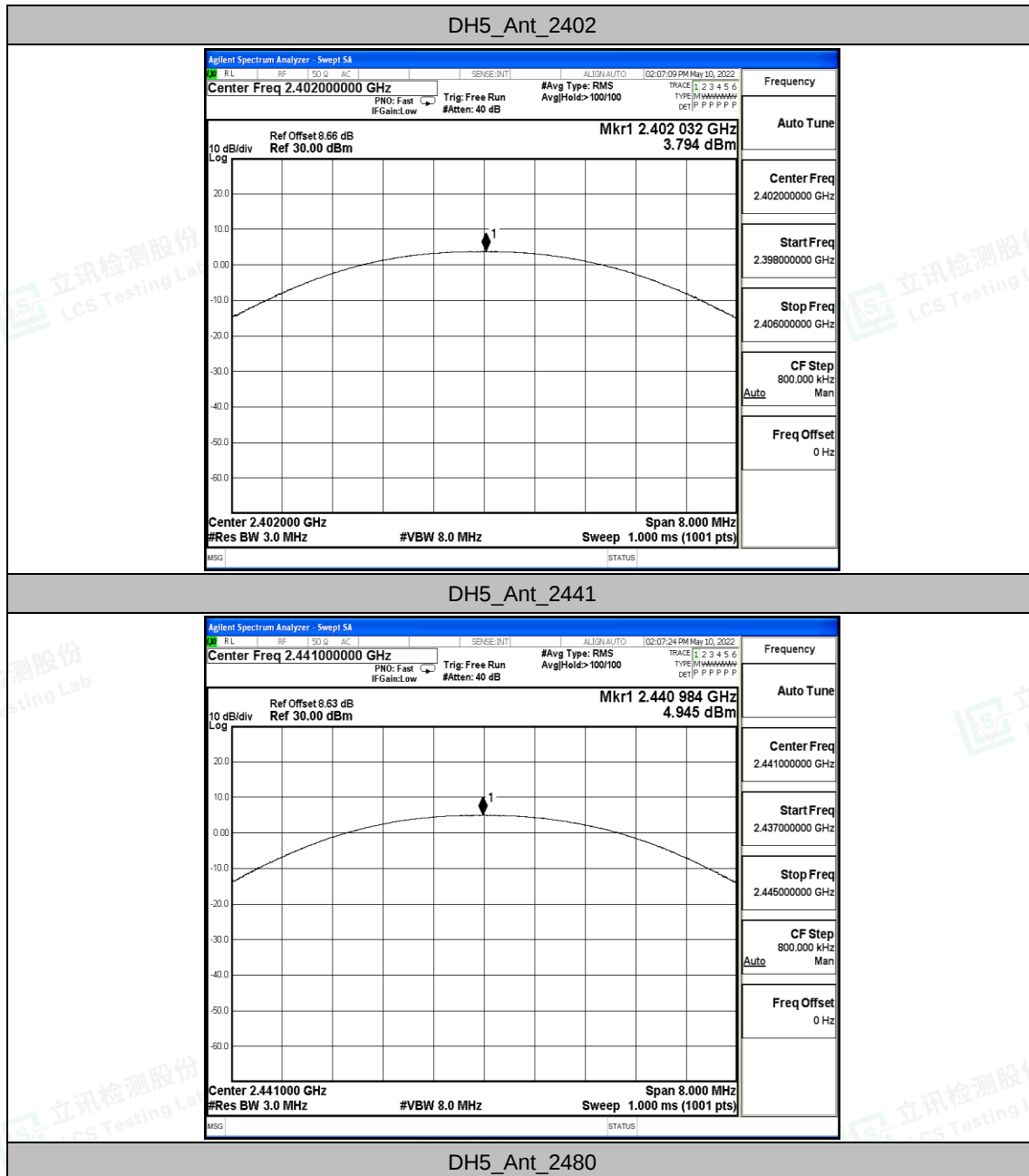
Test Result

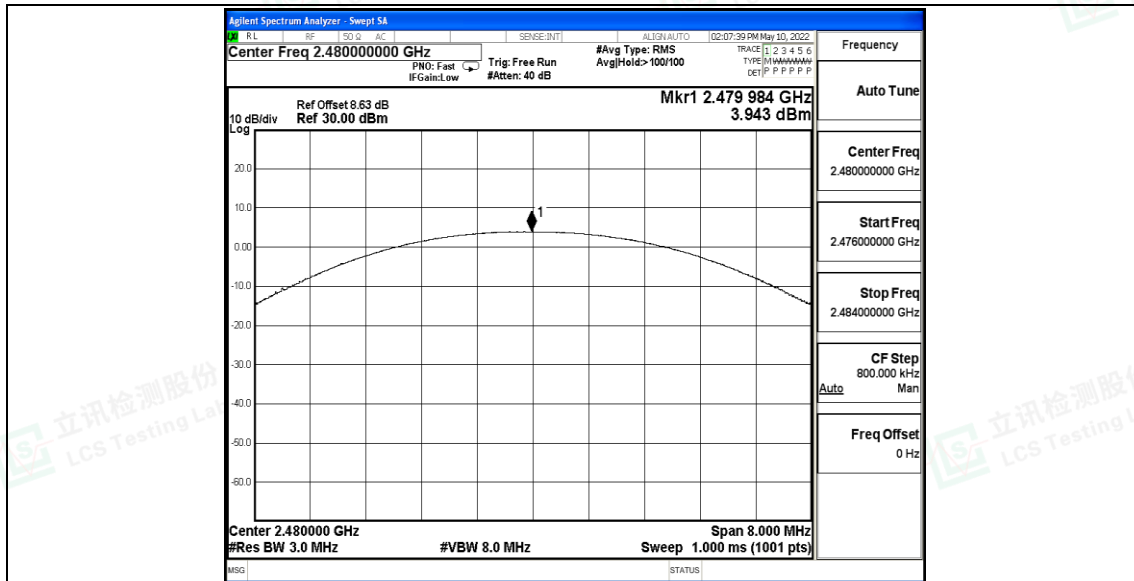
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant	2402	3.79	≤20.97	PASS
		2441	4.95	≤20.97	PASS
		2480	3.94	≤20.97	PASS
2DH5	Ant	2402	3.51	≤20.97	PASS
		2441	4.77	≤20.97	PASS
		2480	3.71	≤20.97	PASS
3DH5	Ant	2402	3.62	≤20.97	PASS
		2441	4.78	≤20.97	PASS
		2480	3.78	≤20.97	PASS



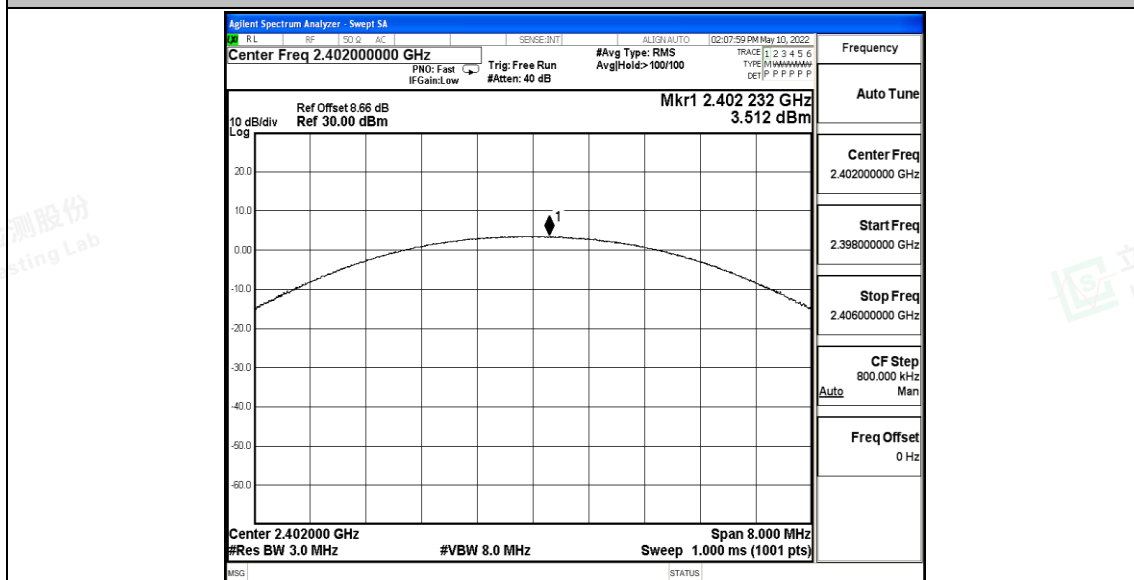


Test Graphs



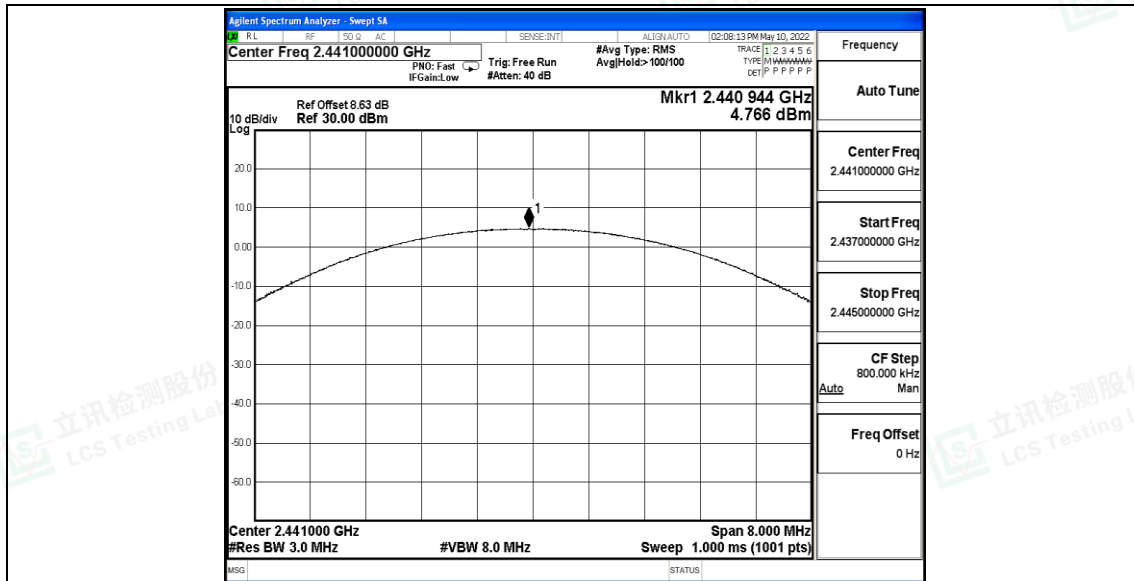


2DH5_Ant_2402

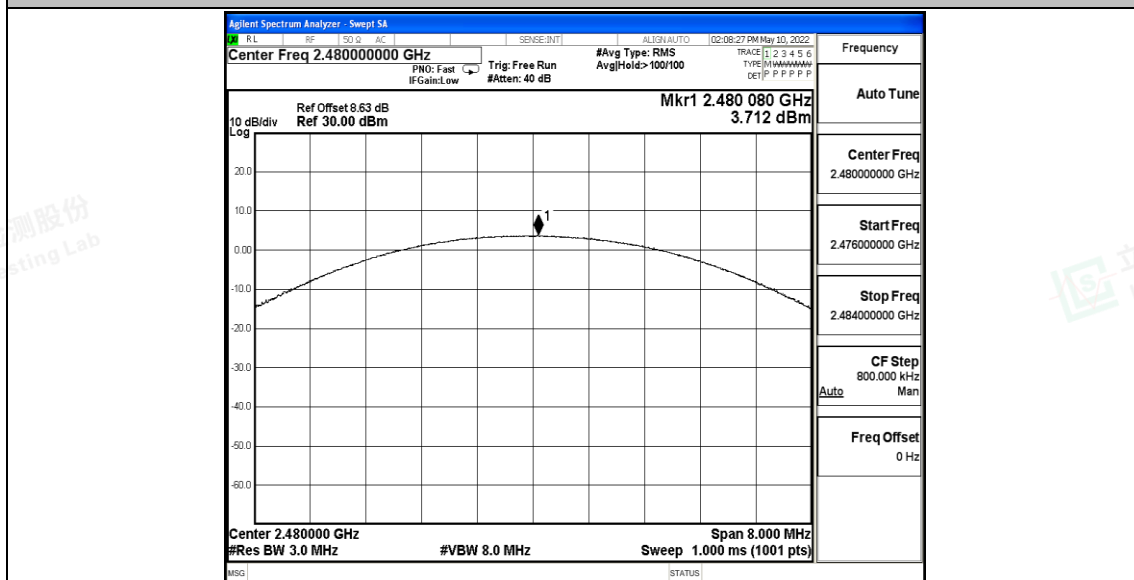


2DH5_Ant_2441



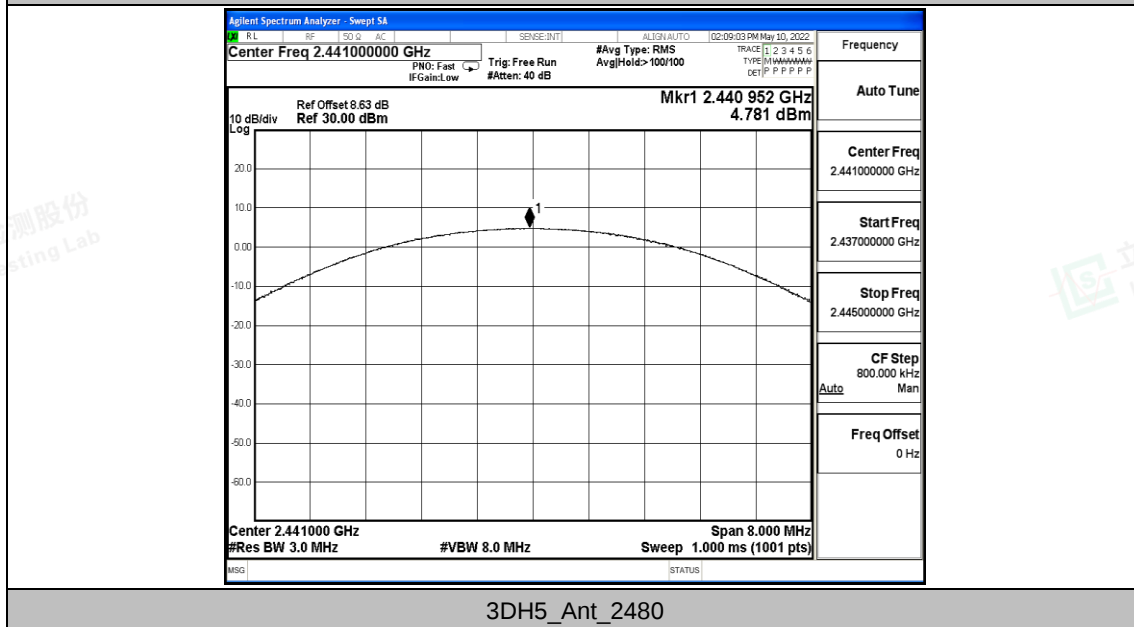
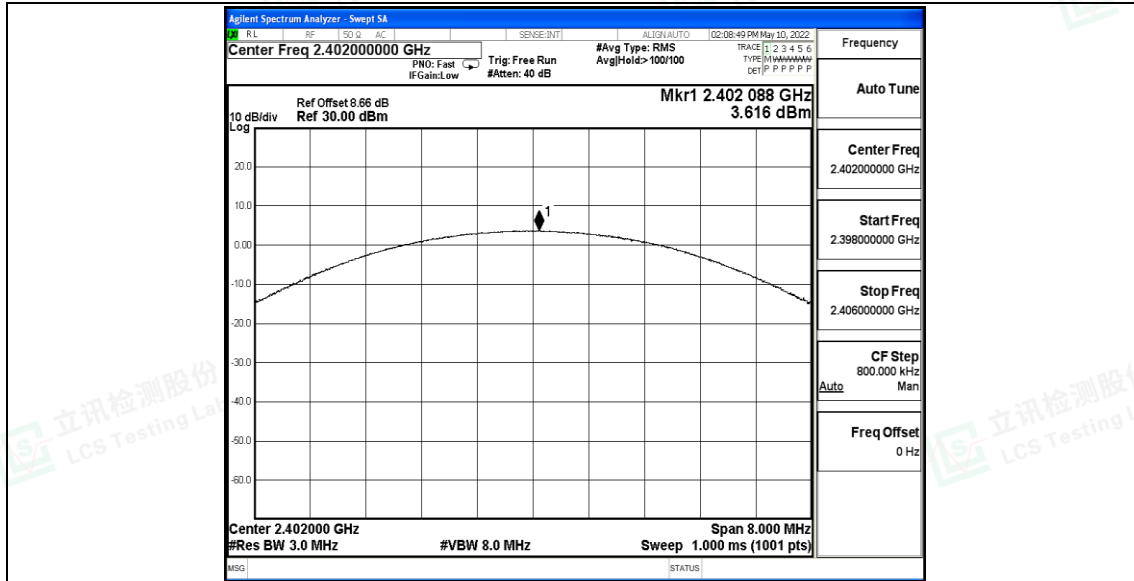


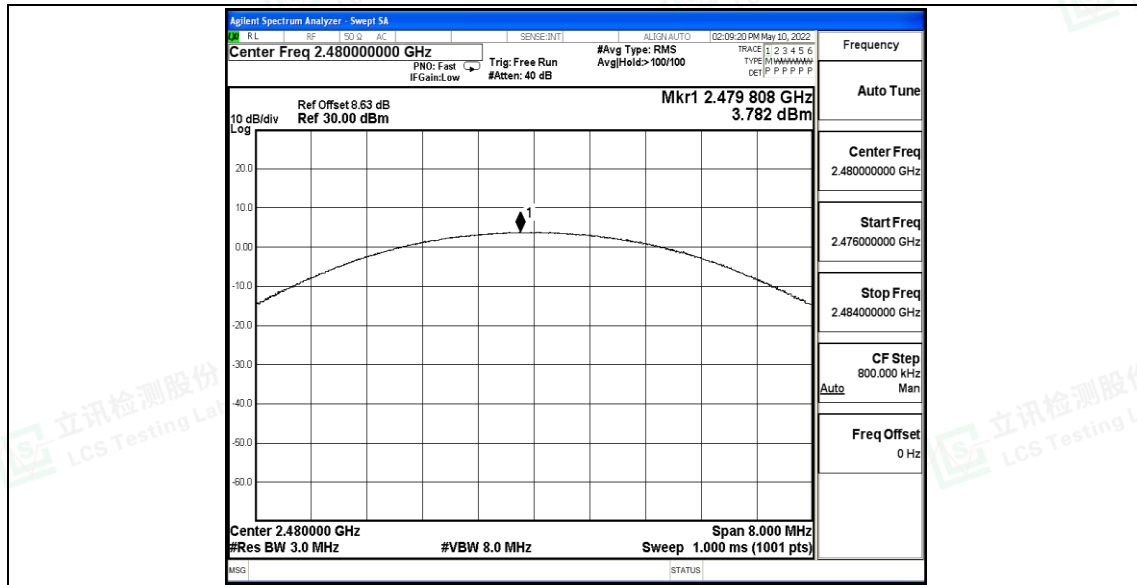
2DH5_Ant_2480



3DH5_Ant_2402









A.3 Carrier frequency separation

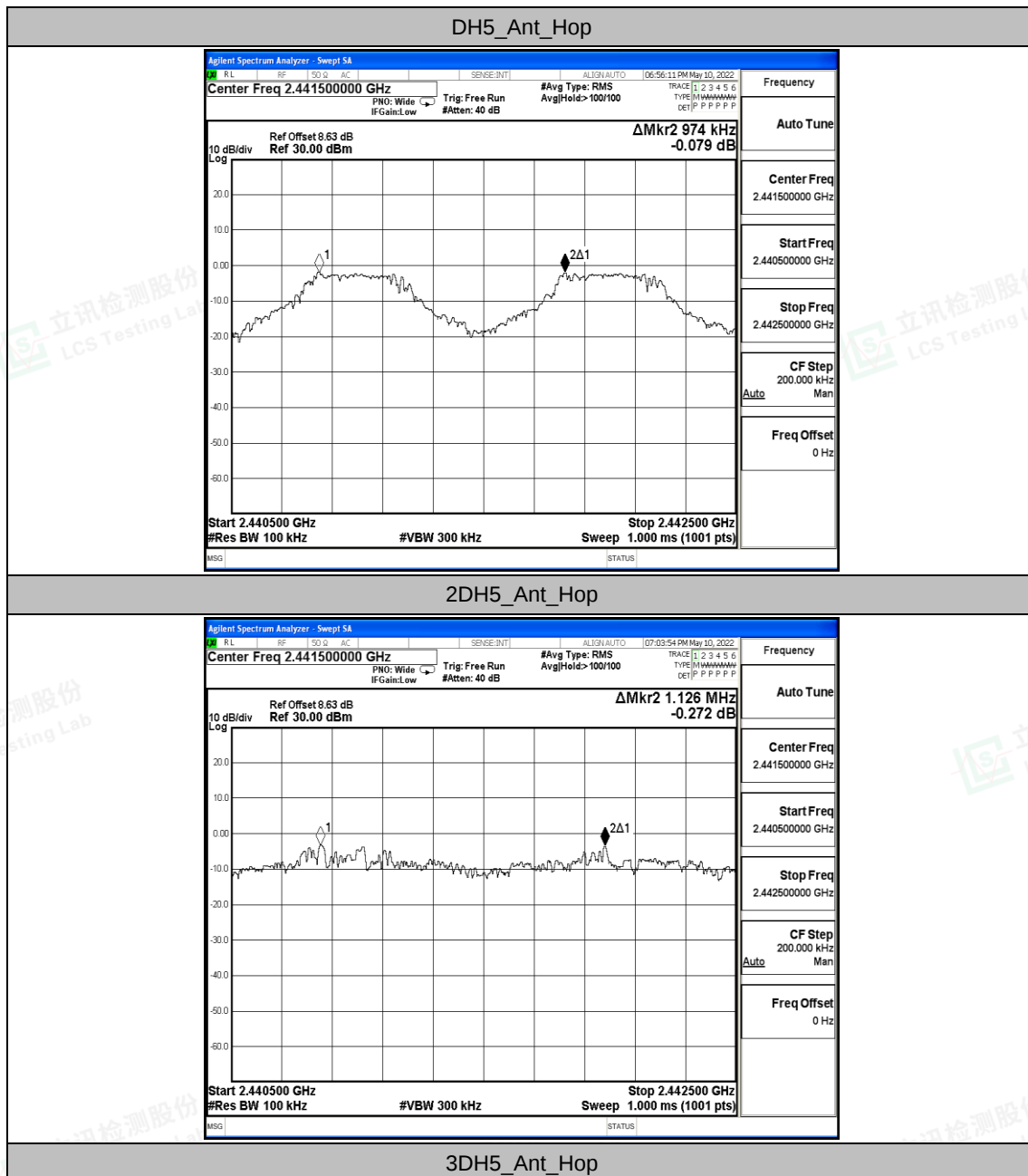
Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant	Hop	0.974	≥ 0.692	PASS
2DH5	Ant	Hop	1.126	≥ 0.864	PASS
3DH5	Ant	Hop	0.944	≥ 0.872	PASS





Test Graphs

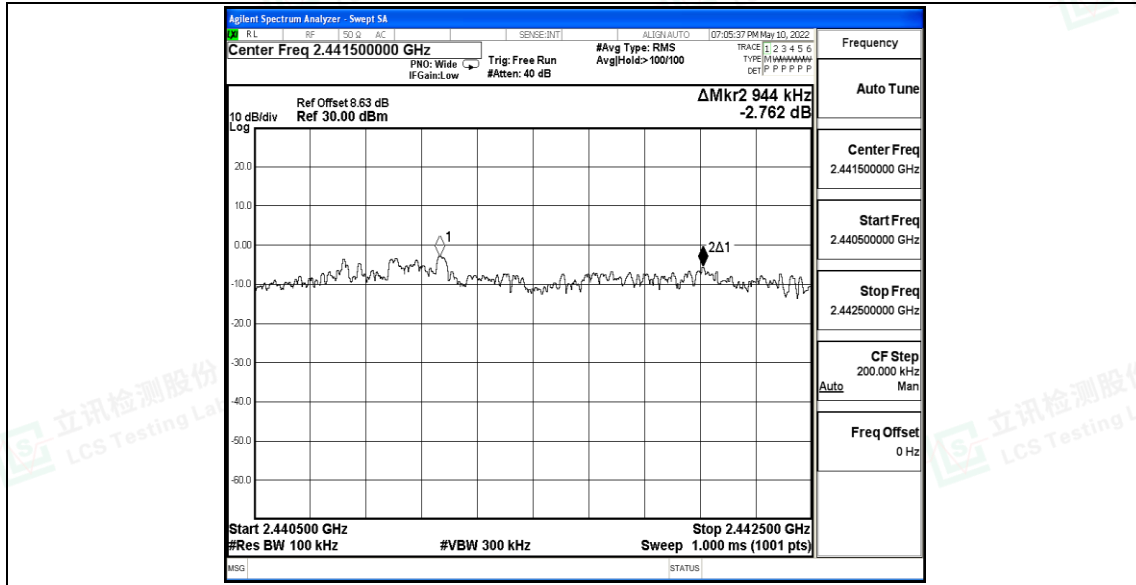


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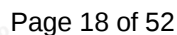


A.4 Time of occupancy

Test Result

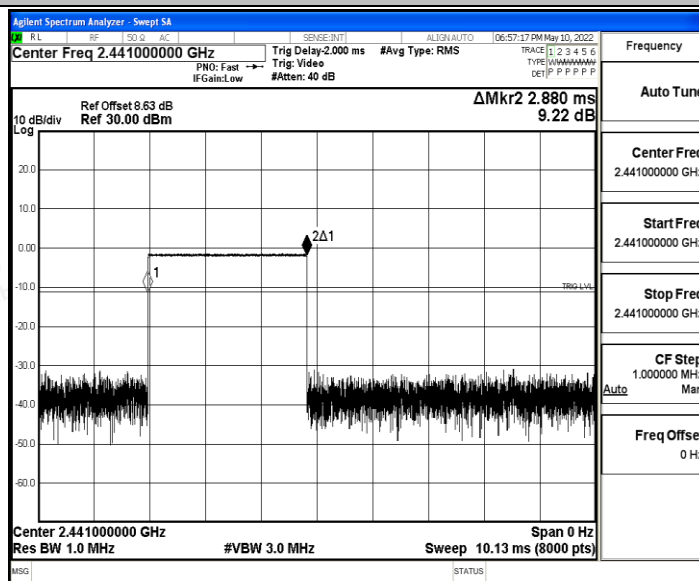
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH5	Ant	Hop	2.88	106.67	0.307	≤0.4	PASS
3DH5	Ant	Hop	2.89	106.67	0.308	≤0.4	PASS



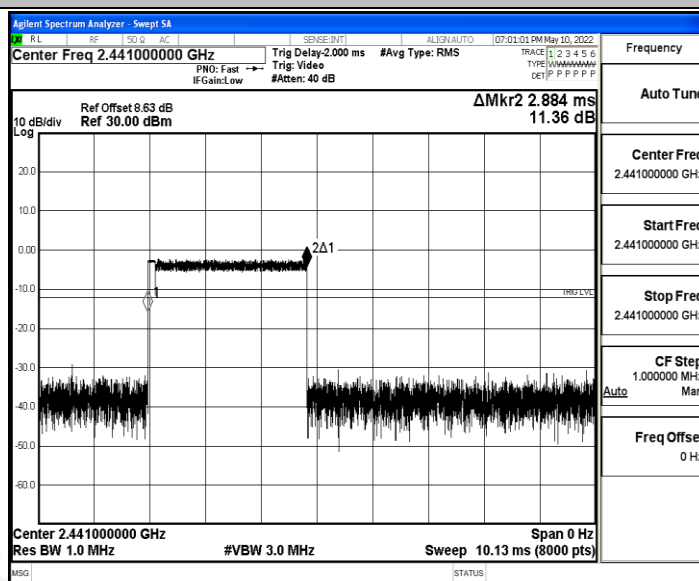


FCC ID: 2AVMJXGO3

DH5 Ant Hop



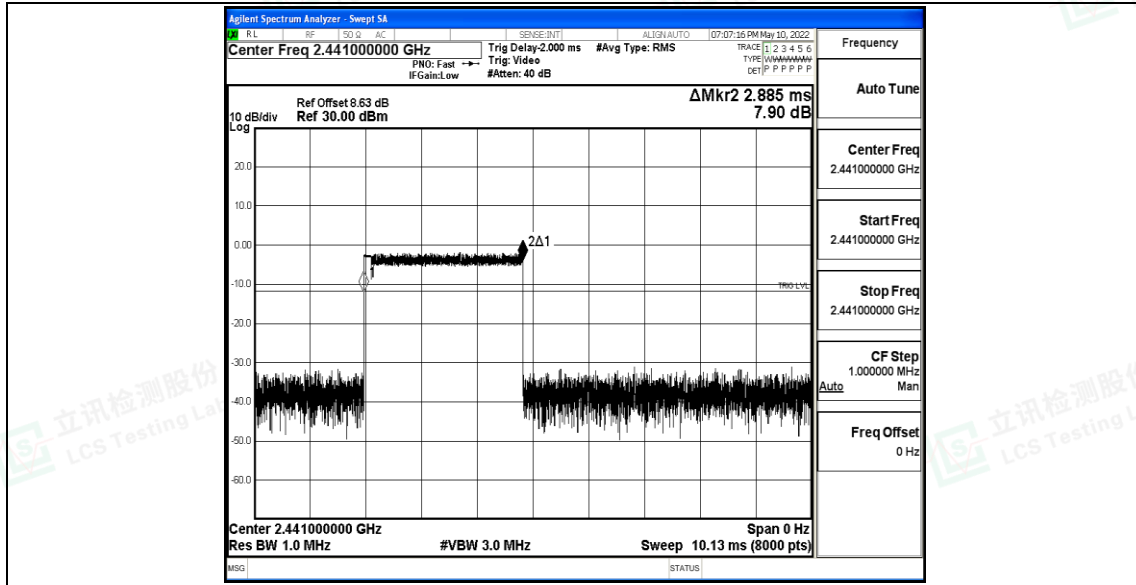
2DH5 Ant Hop



3DH5 Ant Hop



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A.5 Number of hopping channels

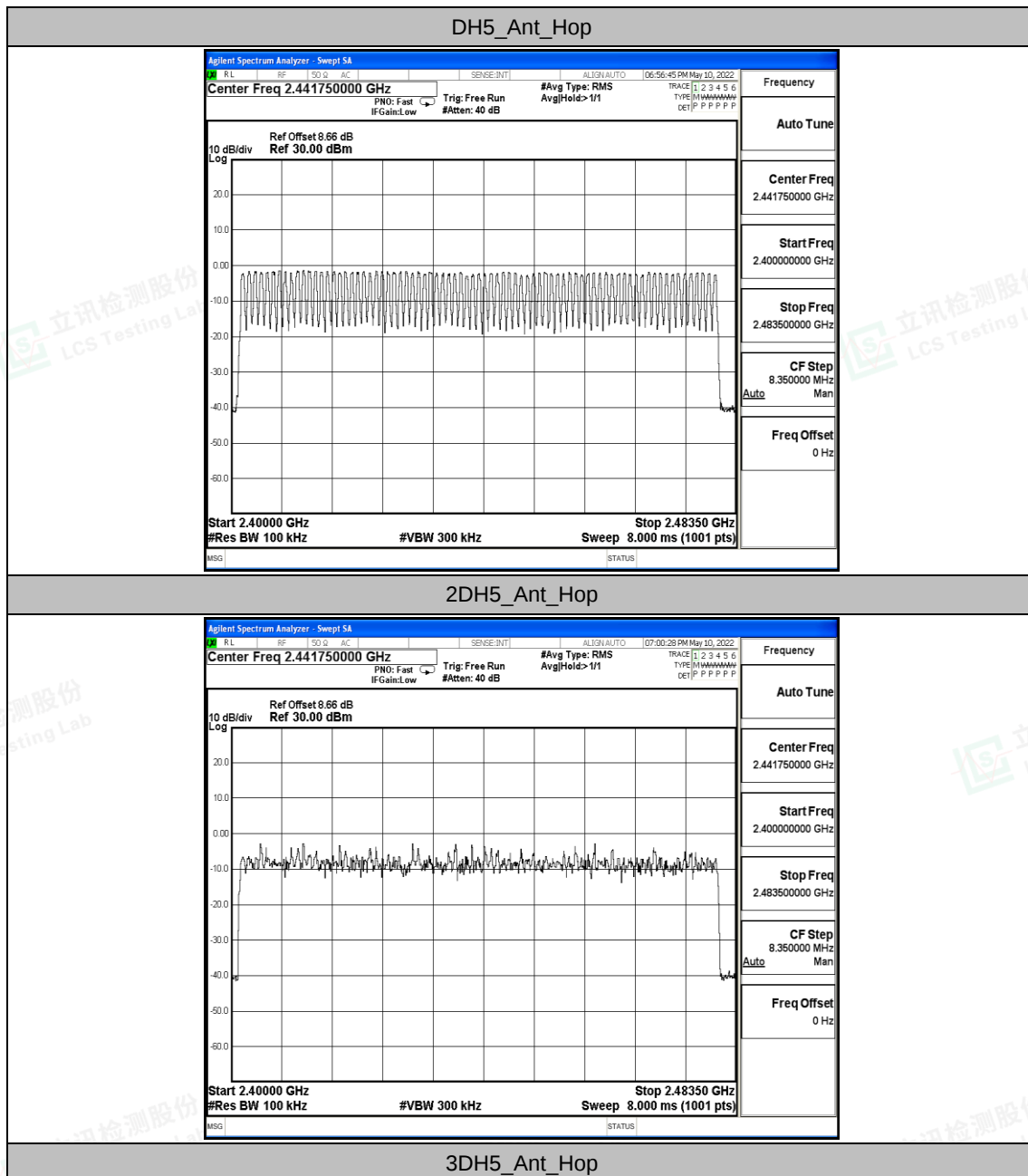
Test Result

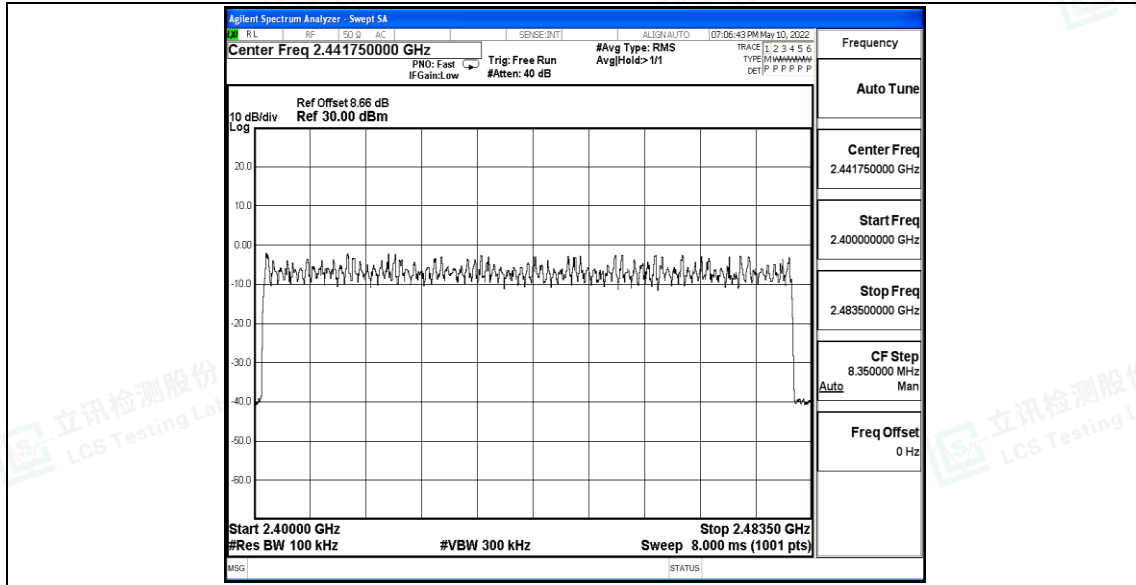
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant	Hop	79	≥15	PASS
2DH5	Ant	Hop	79	≥15	PASS
3DH5	Ant	Hop	79	≥15	PASS





Test Graphs







A.6 Band edge measurements

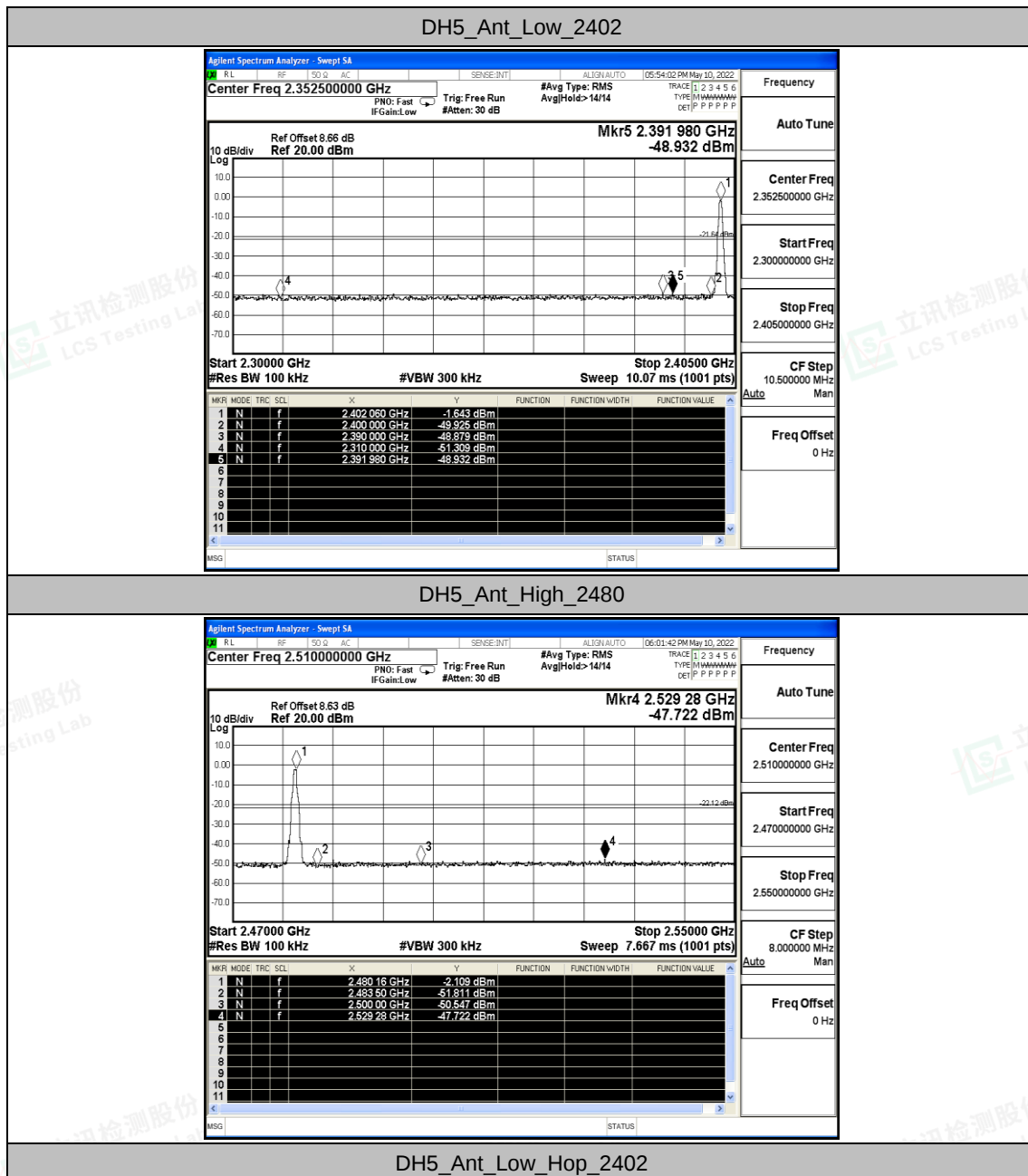
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	Low	2402	-1.64	-48.93	≤ -21.64	PASS
		High	2480	-2.12	-47.72	≤ -22.12	PASS
		Low	Hop_2402	-2.31	-49.08	≤ -22.31	PASS
		High	Hop_2480	-2.08	-48.04	≤ -22.08	PASS
2DH5	Ant	Low	2402	-4.93	-48.57	≤ -24.93	PASS
		High	2480	-2.96	-48.2	≤ -22.96	PASS
		Low	Hop_2402	-5.40	-49.47	≤ -25.4	PASS
		High	Hop_2480	-2.95	-48.29	≤ -22.95	PASS
3DH5	Ant	Low	2402	-2.70	-47.73	≤ -22.7	PASS
		High	2480	-2.99	-48.21	≤ -22.99	PASS
		Low	Hop_2402	-6.06	-49.19	≤ -26.06	PASS
		High	Hop_2480	-3.17	-47.79	≤ -23.17	PASS





Test Graphs

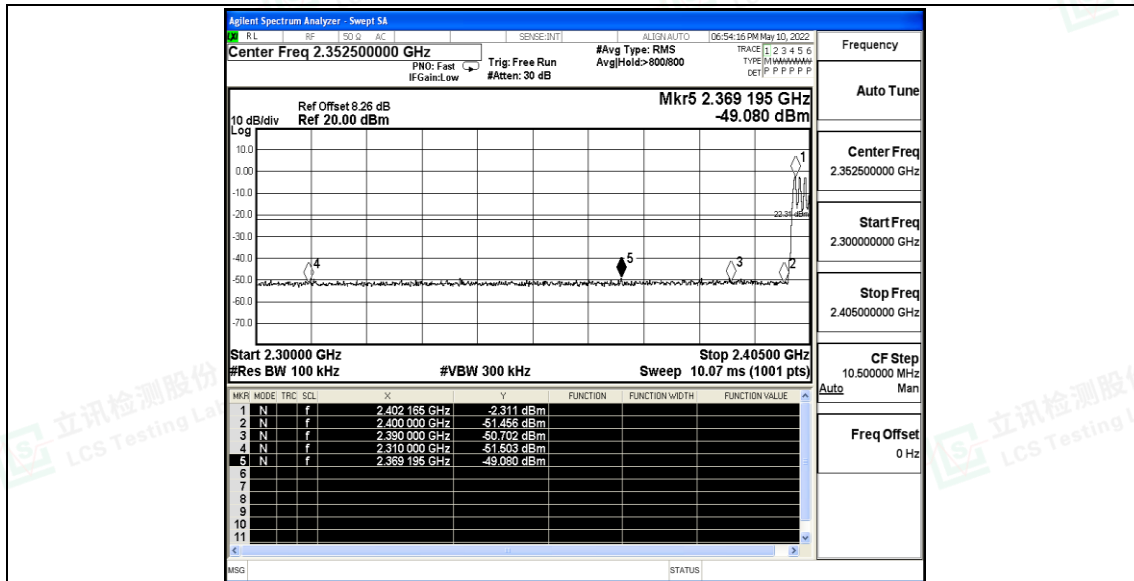


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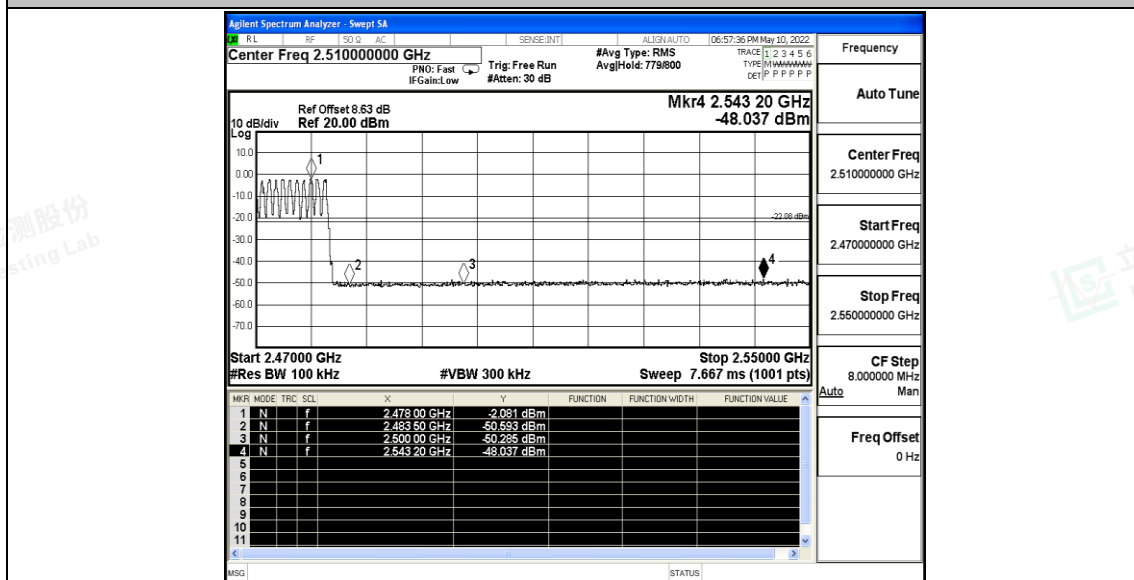
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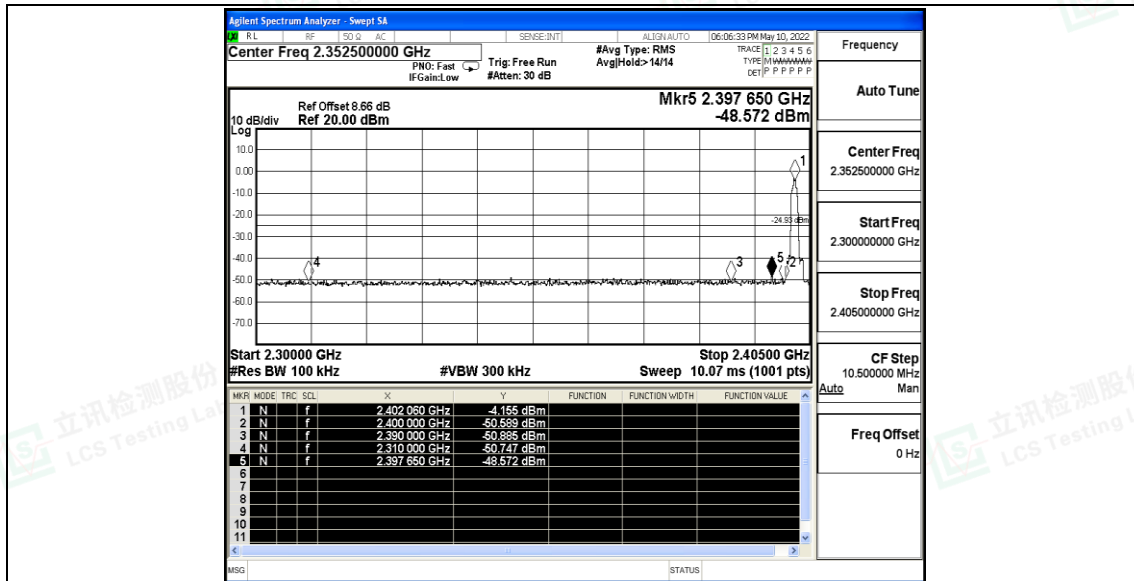


DH5_Ant_High_Hop_2480

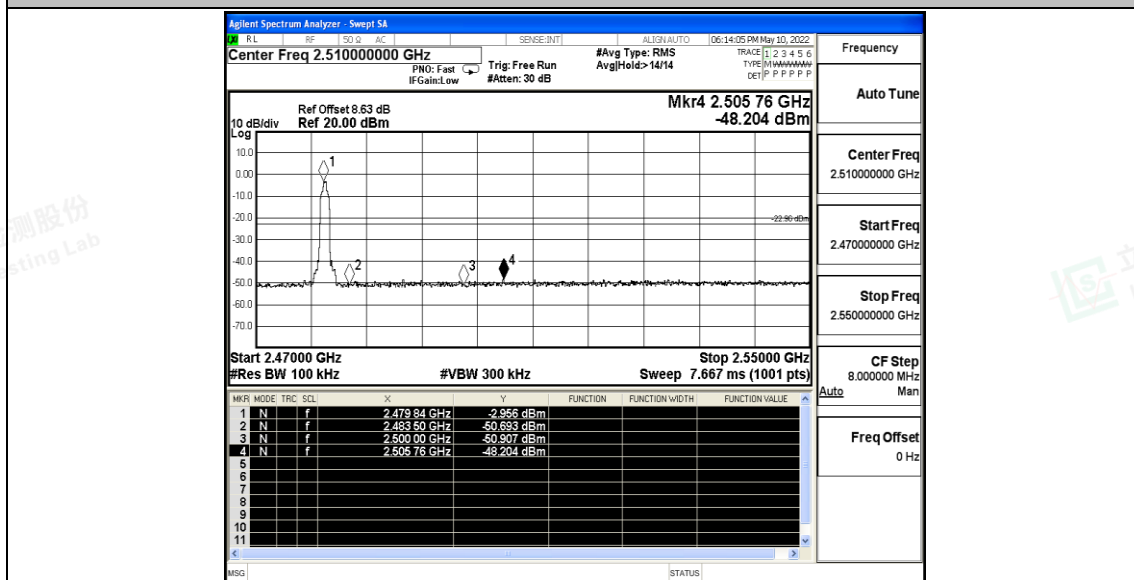


2DH5_Ant_Low_2402



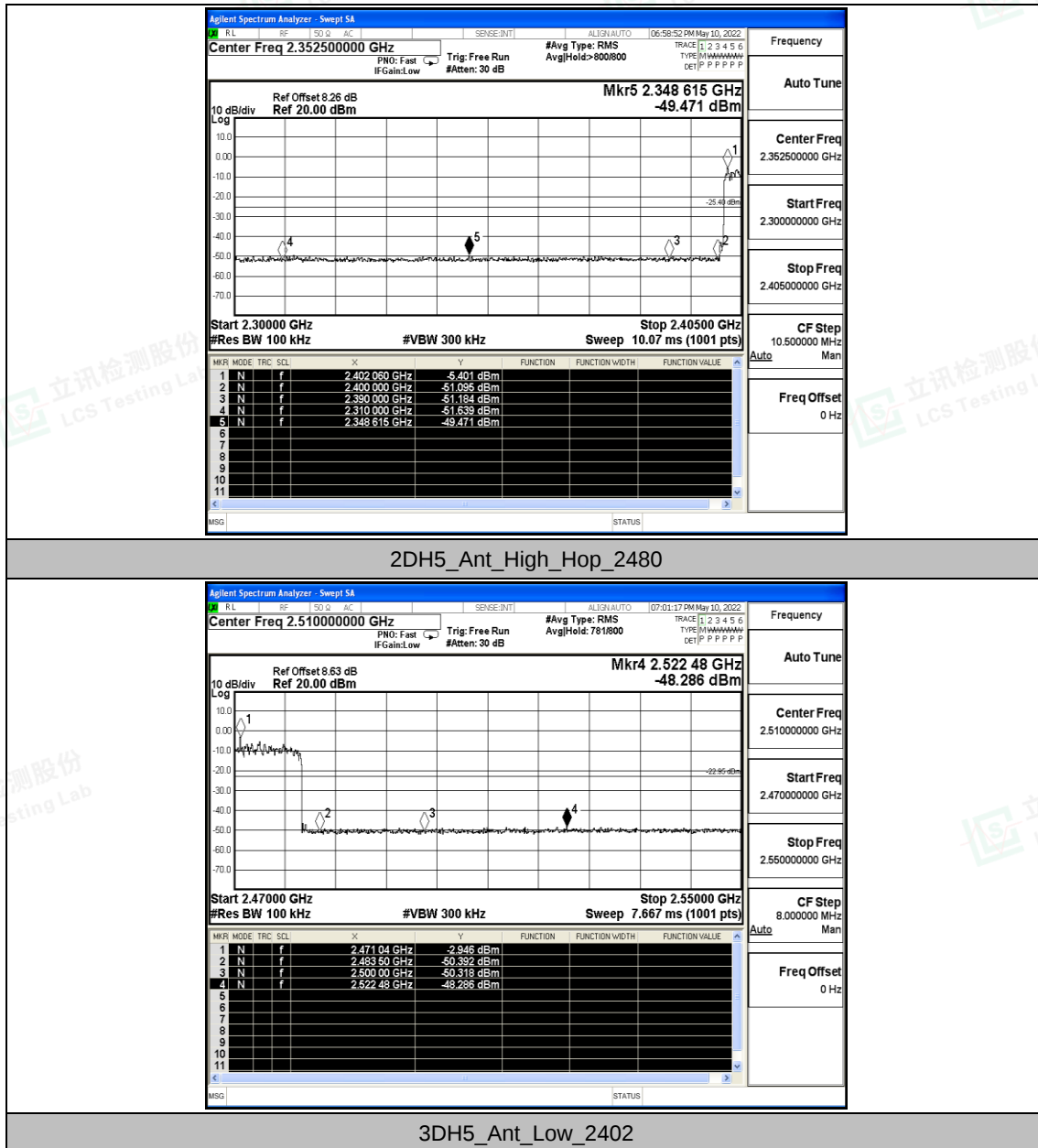


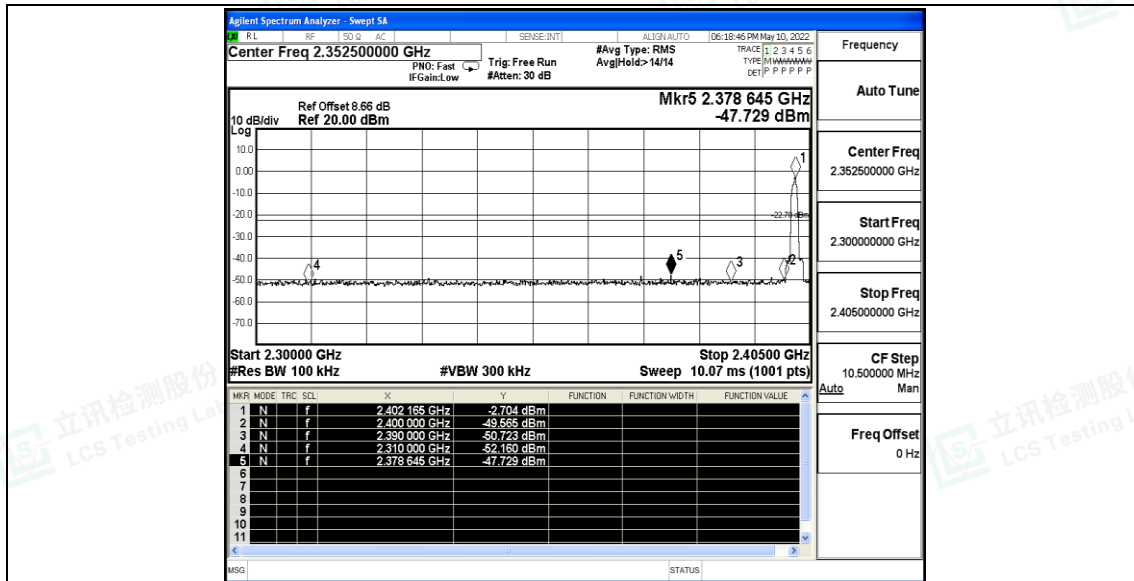
2DH5_Ant_High_2480



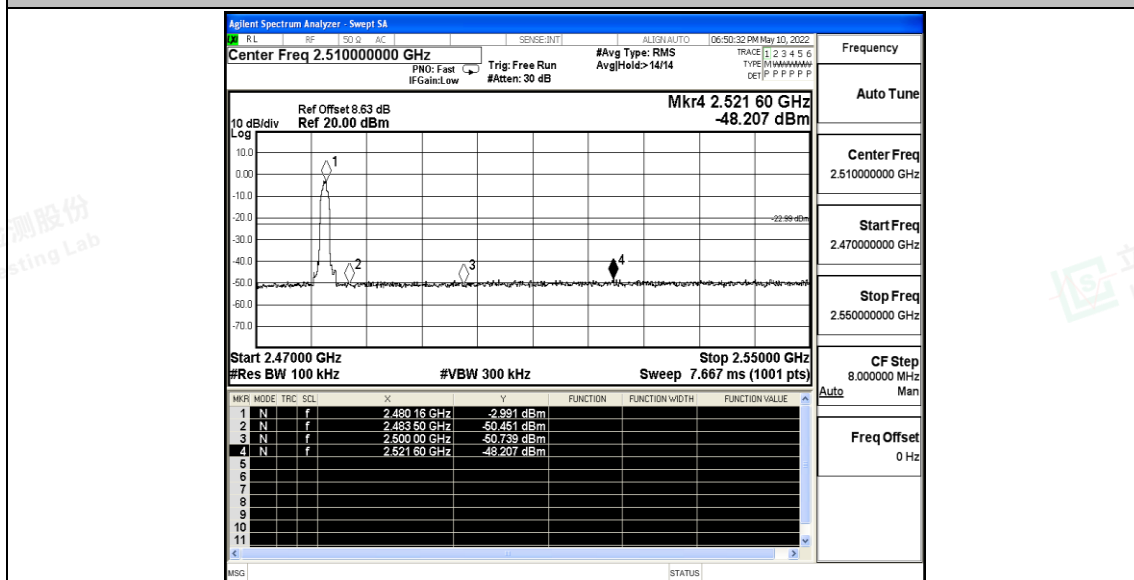
2DH5_Ant_Low_Hop_2402





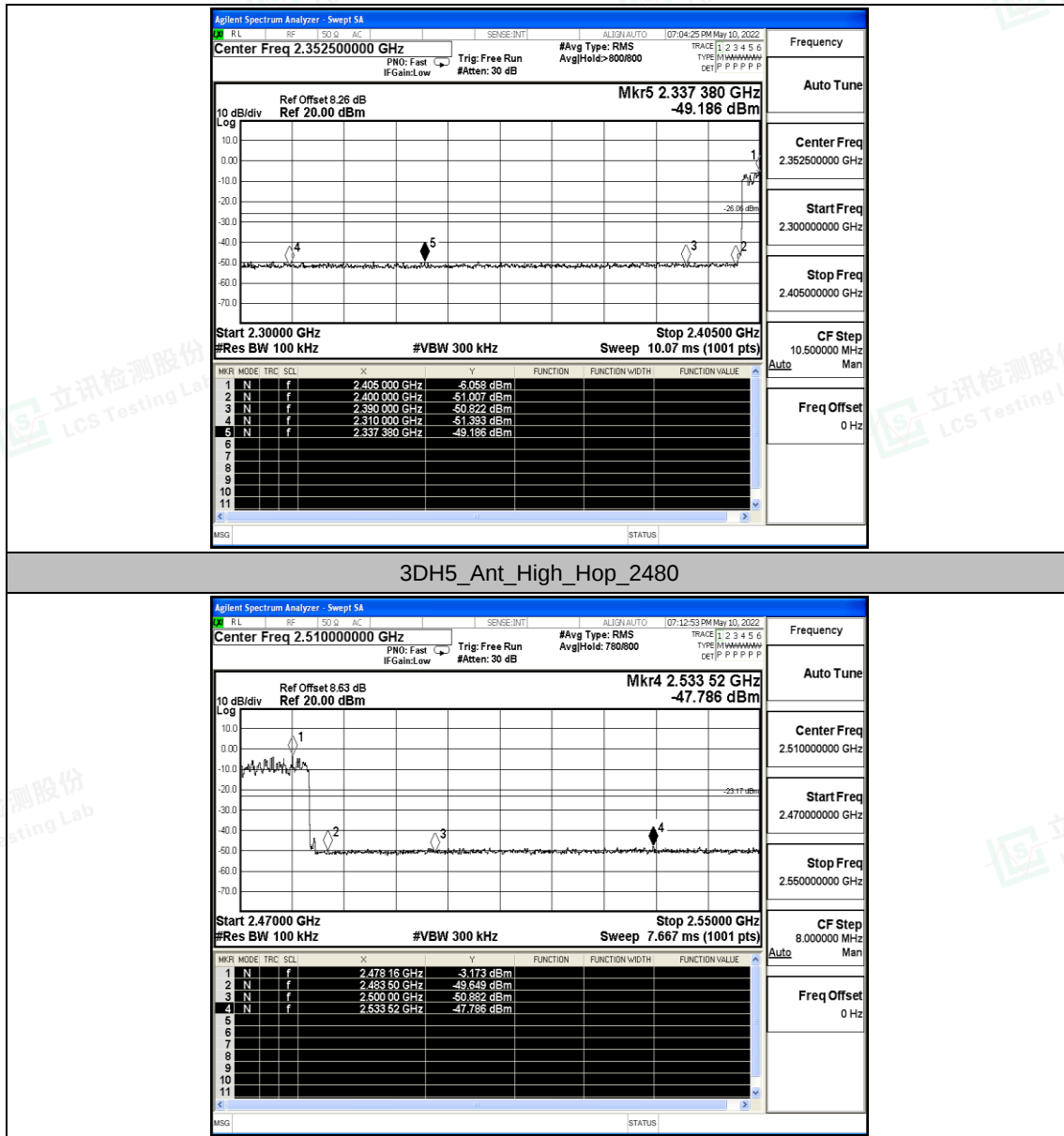


3DH5_Ant_High_2480



3DH5_Ant_Low_Hop_2402







A.7 Conducted Spurious Emission

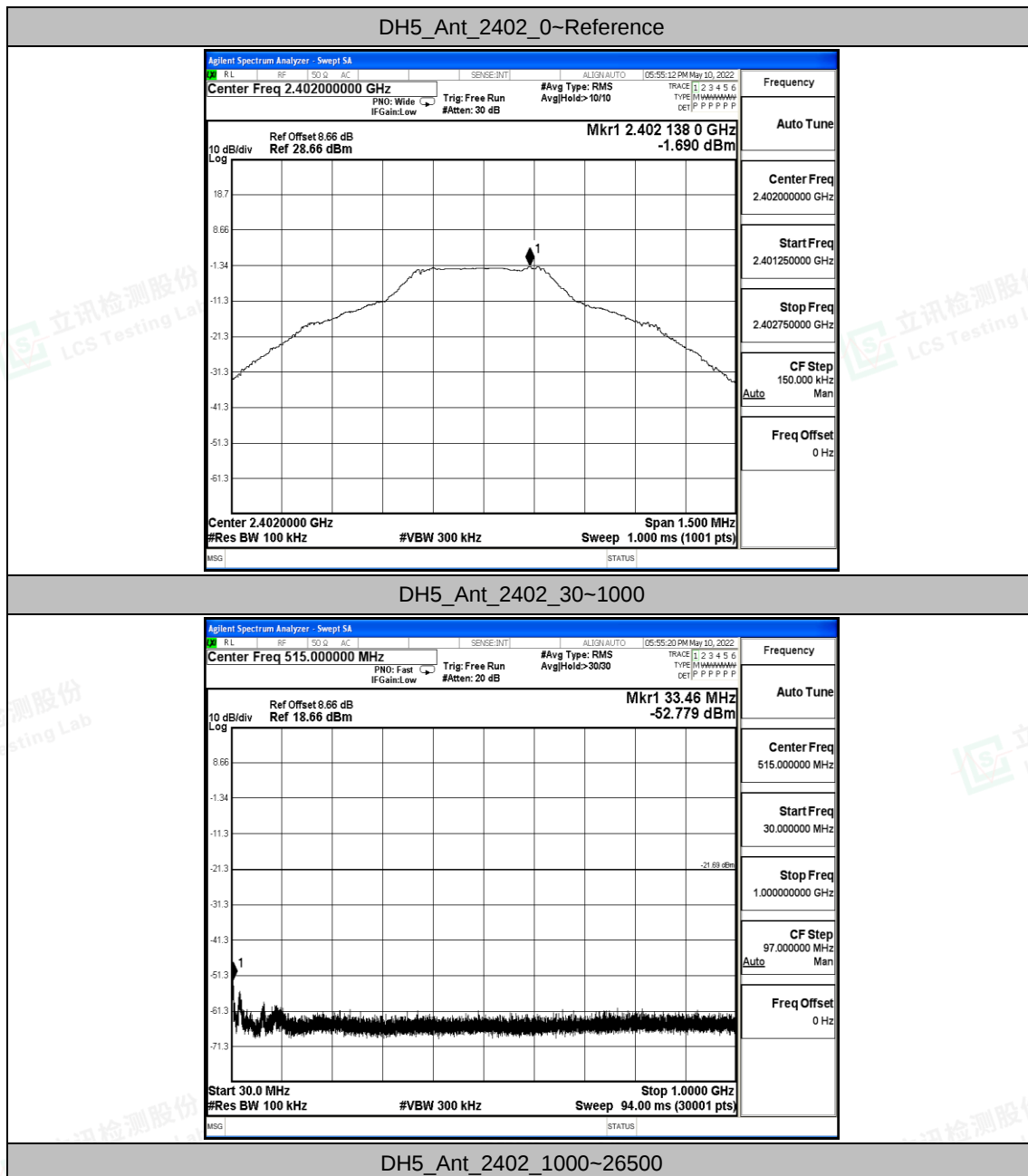
Test Result

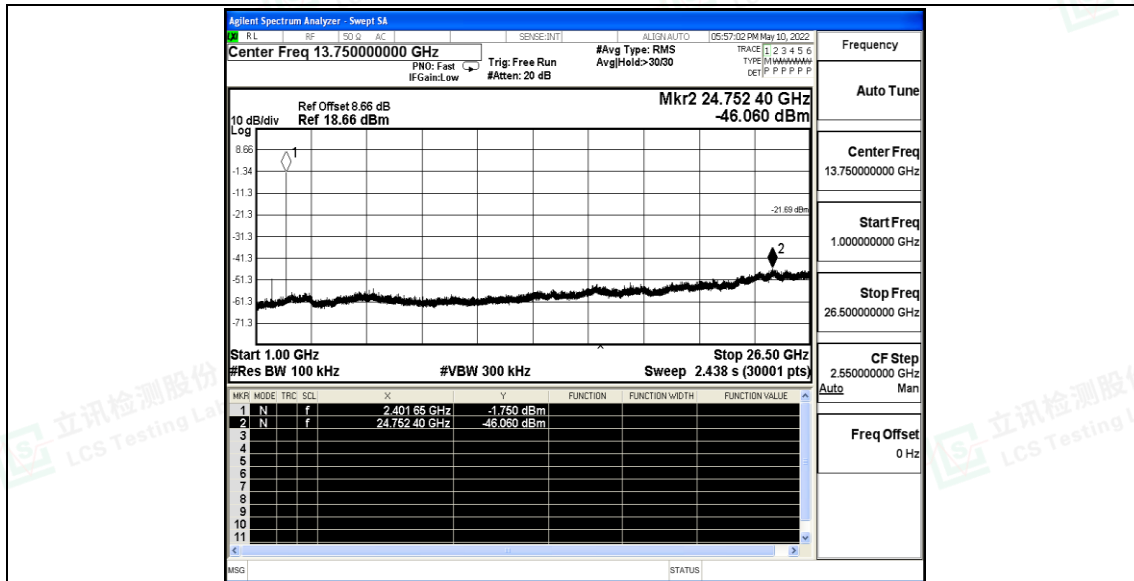
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	2402	Reference	-1.69	-1.69	---	PASS
			30~1000	-1.69	-52.78	≤-21.69	PASS
			1000~26500	-1.69	-46.06	≤-21.69	PASS
		2441	Reference	-2.00	-2.00	---	PASS
			30~1000	-2.00	-53.42	≤-22	PASS
			1000~26500	-2.00	-46.26	≤-22	PASS
		2480	Reference	-2.28	-2.28	---	PASS
			30~1000	-2.28	-37.79	≤-22.28	PASS
			1000~26500	-2.28	-38.76	≤-22.28	PASS
2DH5	Ant	2402	Reference	-2.65	-2.65	---	PASS
			30~1000	-2.65	-57.7	≤-22.65	PASS
			1000~26500	-2.65	-46.32	≤-22.65	PASS
		2441	Reference	-3.19	-3.19	---	PASS
			30~1000	-3.19	-56.2	≤-23.19	PASS
			1000~26500	-3.19	-46.96	≤-23.19	PASS
		2480	Reference	-2.44	-2.44	---	PASS
			30~1000	-2.44	-57.88	≤-22.44	PASS
			1000~26500	-2.44	-46.02	≤-22.44	PASS
3DH5	Ant	2402	Reference	-2.55	-2.55	---	PASS
			30~1000	-2.55	-55.12	≤-22.55	PASS
			1000~26500	-2.55	-46.2	≤-22.55	PASS
		2441	Reference	-1.90	-1.90	---	PASS
			30~1000	-1.90	-56.5	≤-21.9	PASS
			1000~26500	-1.90	-45.1	≤-21.9	PASS
		2480	Reference	-3.04	-3.04	---	PASS
			30~1000	-3.04	-34.18	≤-23.04	PASS
			1000~26500	-3.04	-46.14	≤-23.04	PASS



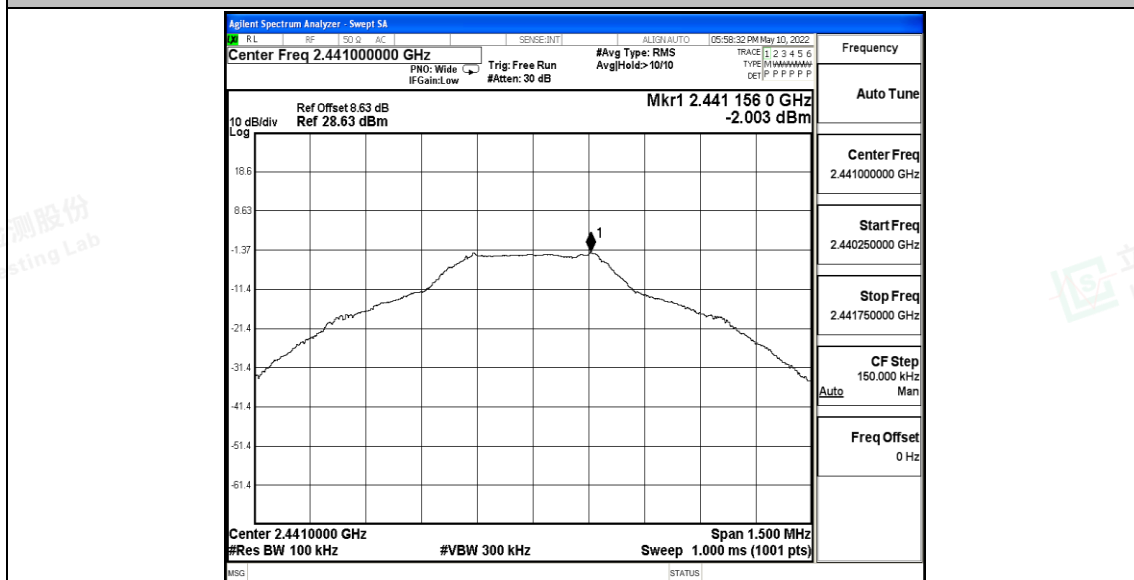


Test Graphs





DH5_Ant_2441_0~Reference



DH5_Ant_2441_30~1000

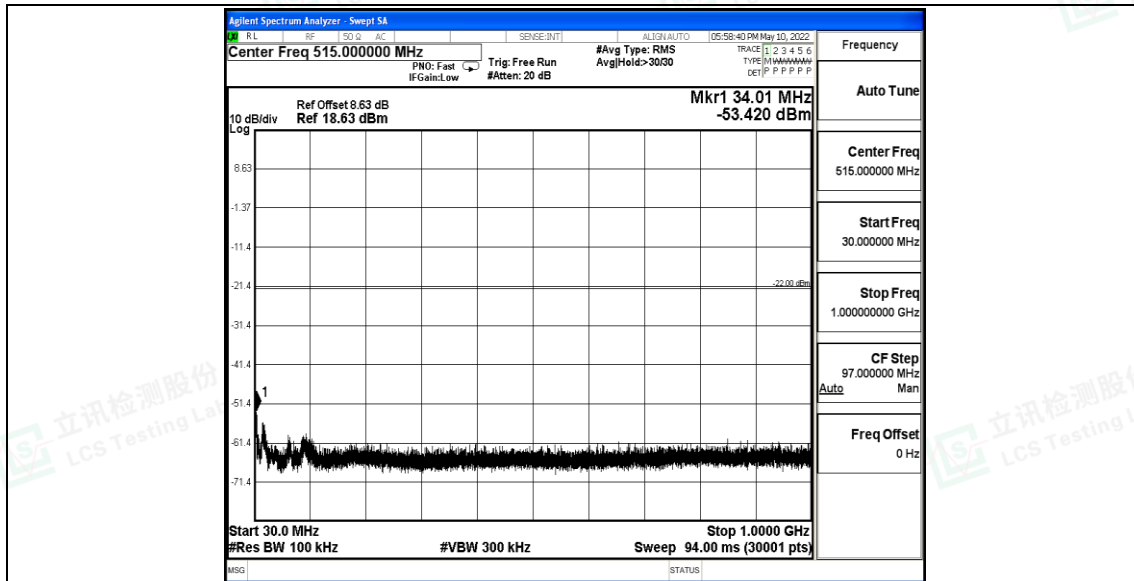


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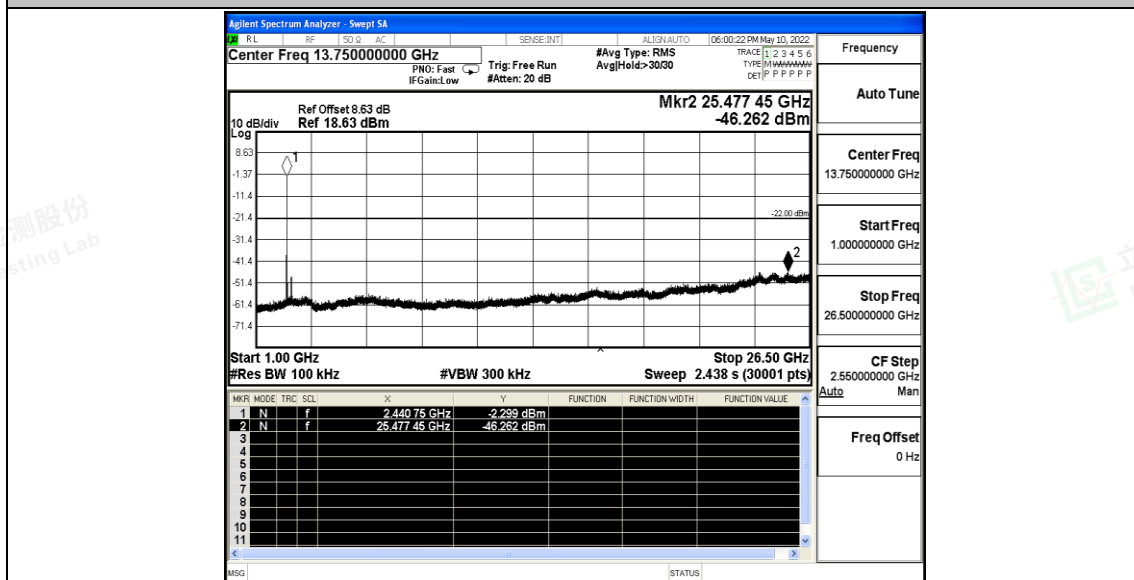
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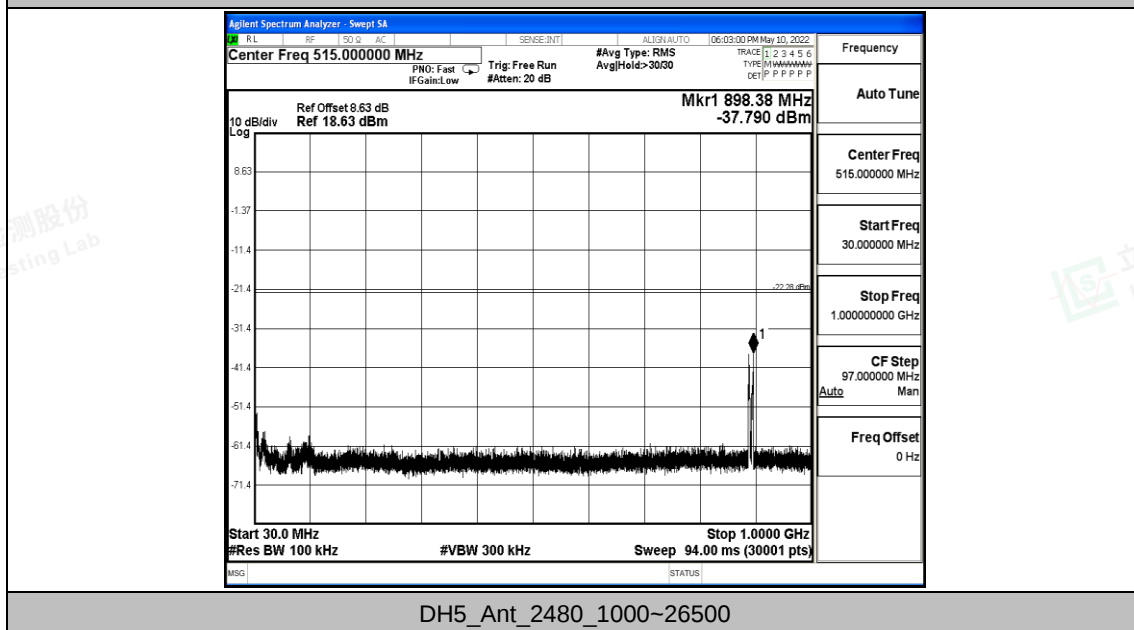
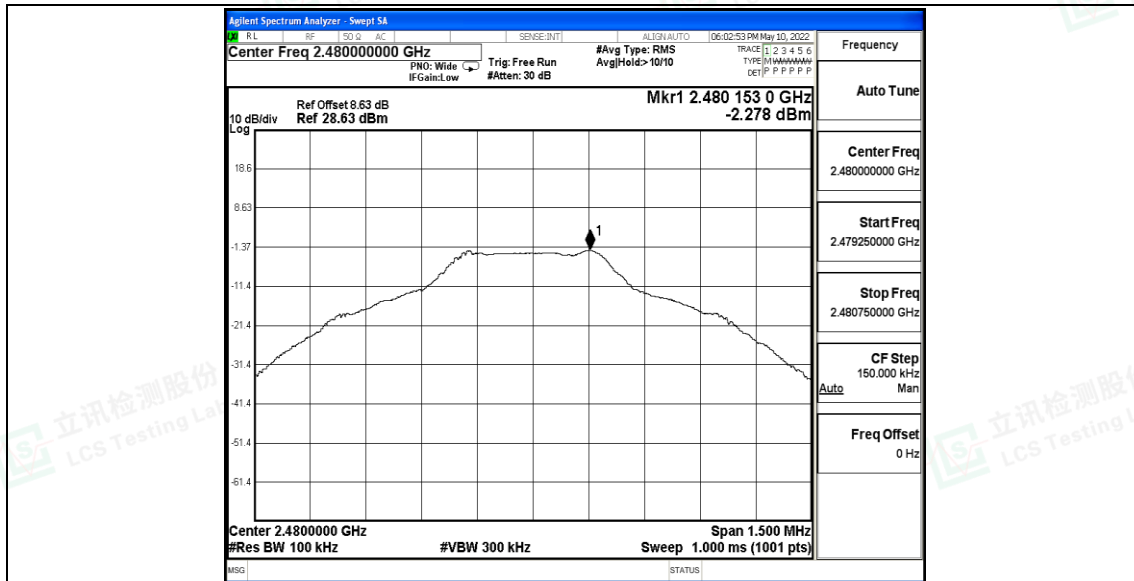


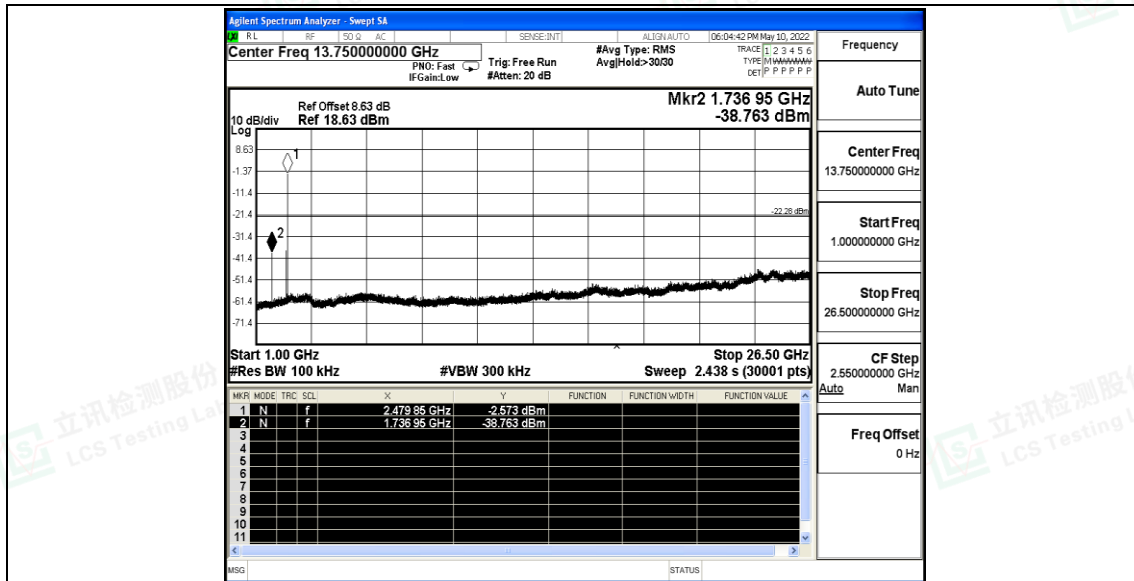
DH5_Ant_2441_1000~26500



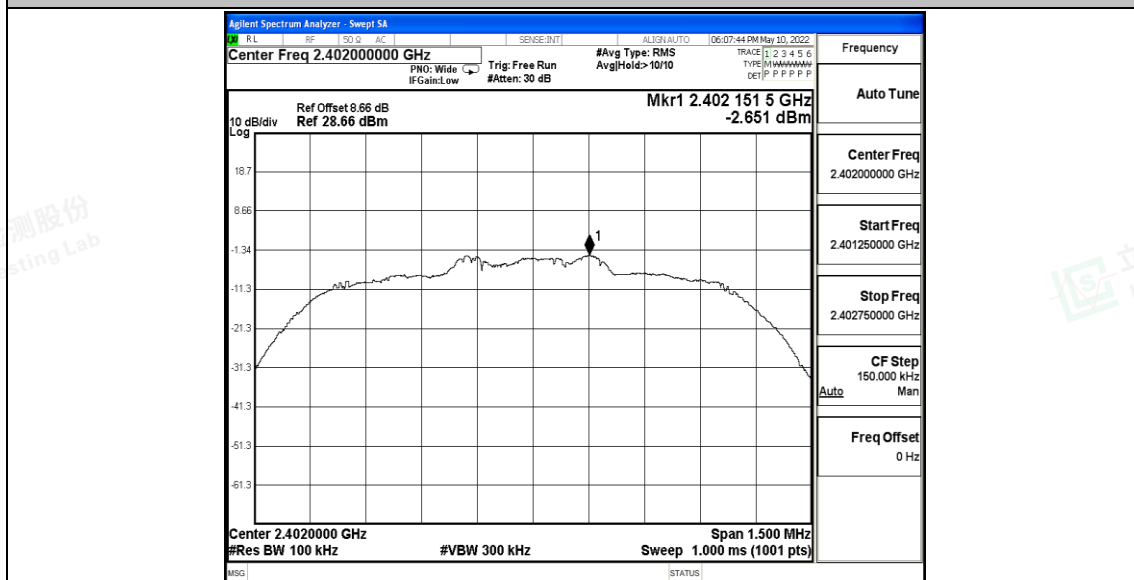
DH5_Ant_2480_0~Reference







2DH5_Ant_2402_0-Reference



2DH5_Ant_2402_30~1000

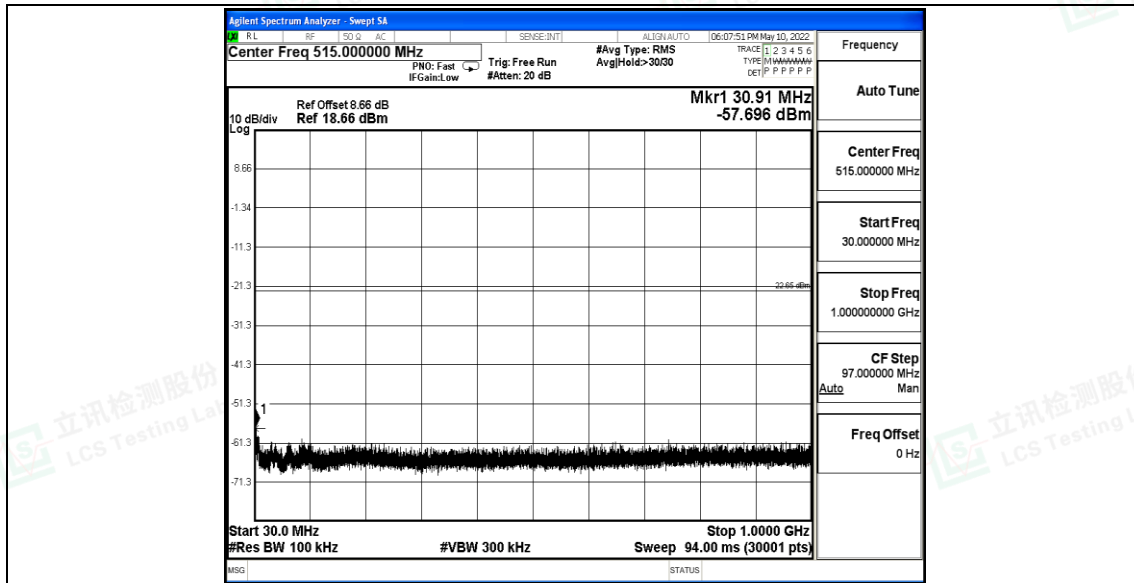


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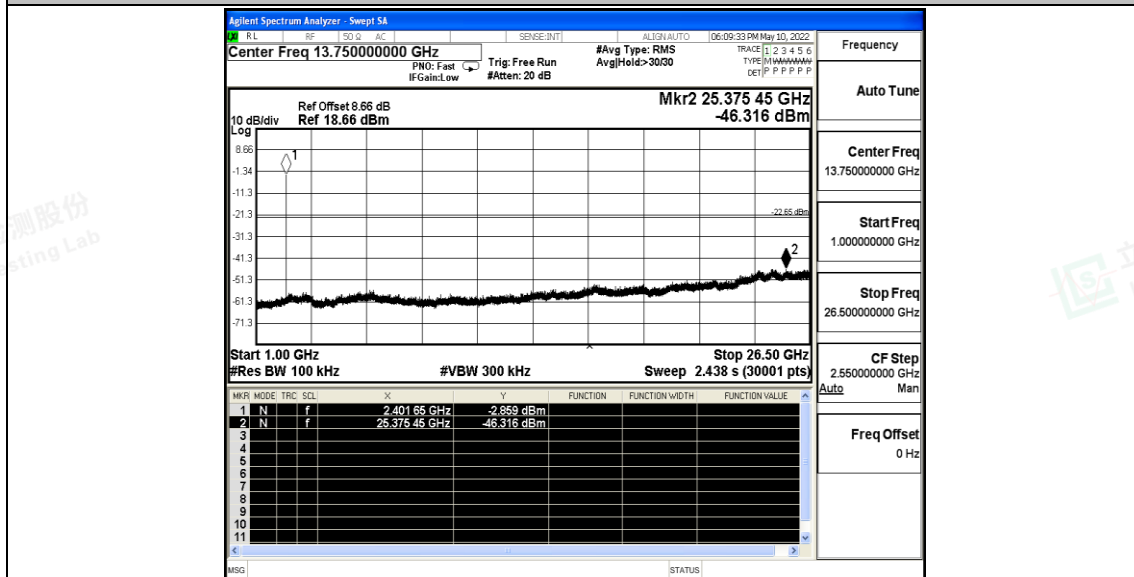
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2DH5_Ant_2402_1000~26500



2DH5_Ant_2441_0~Reference

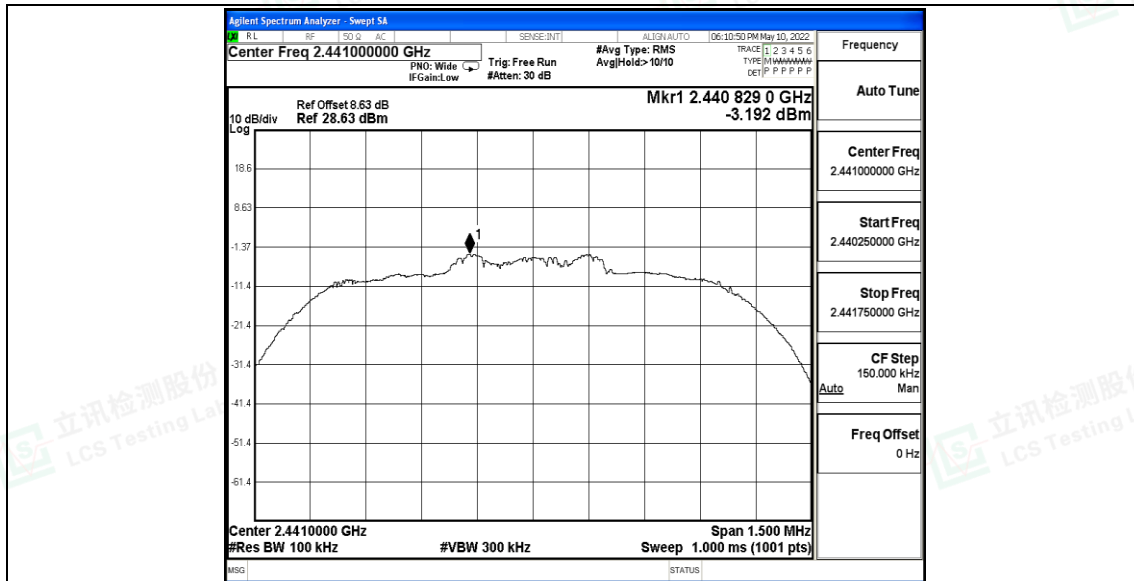


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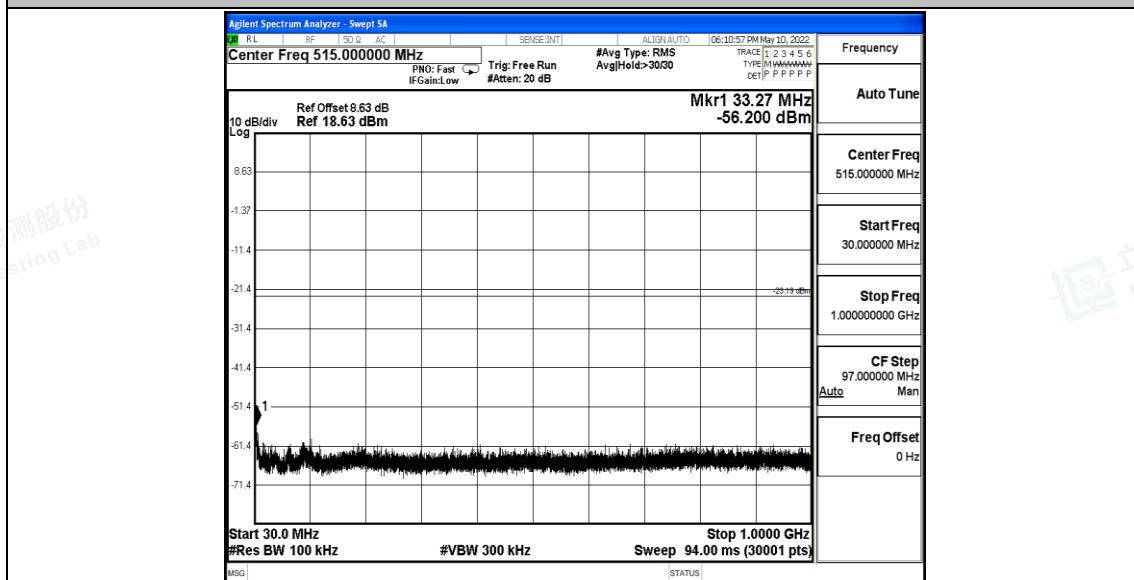
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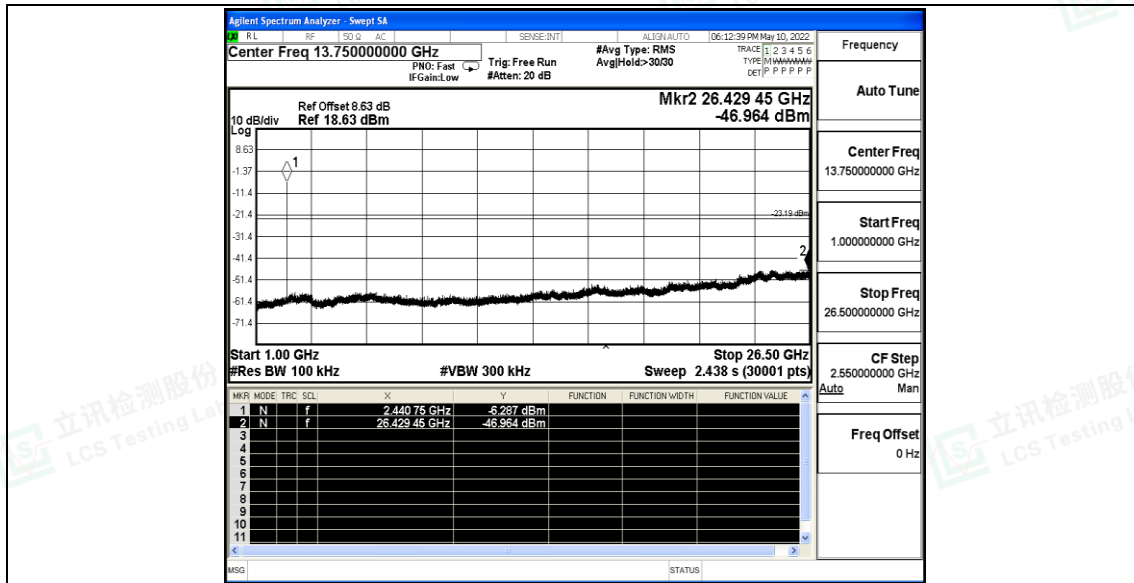


2DH5_Ant_2441_30~1000

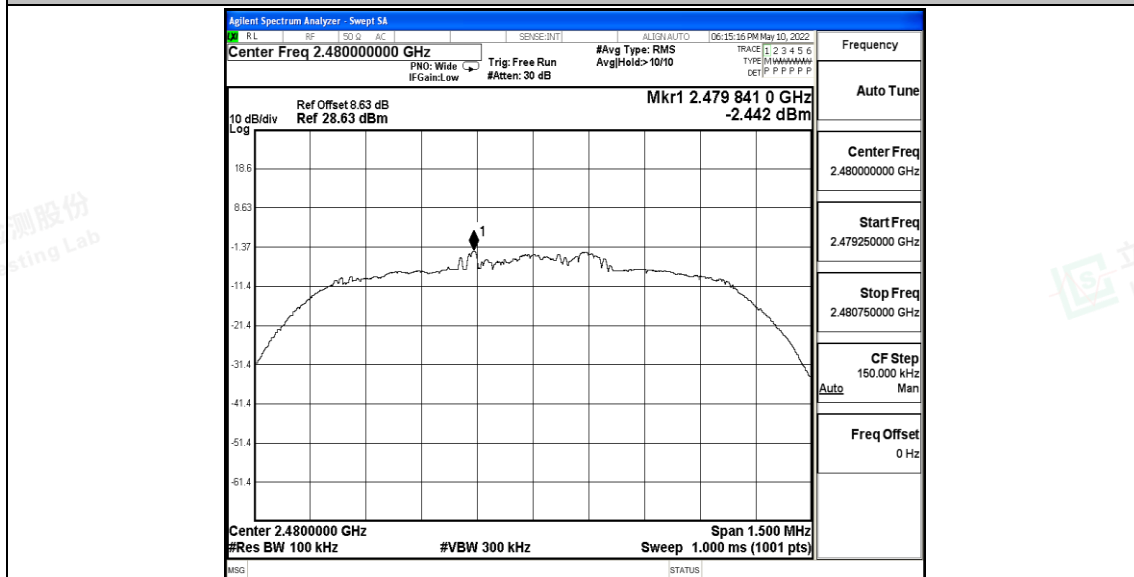


2DH5_Ant_2441_1000~26500





2DH5_Ant_2480_0-Reference



2DH5_Ant_2480_30~1000

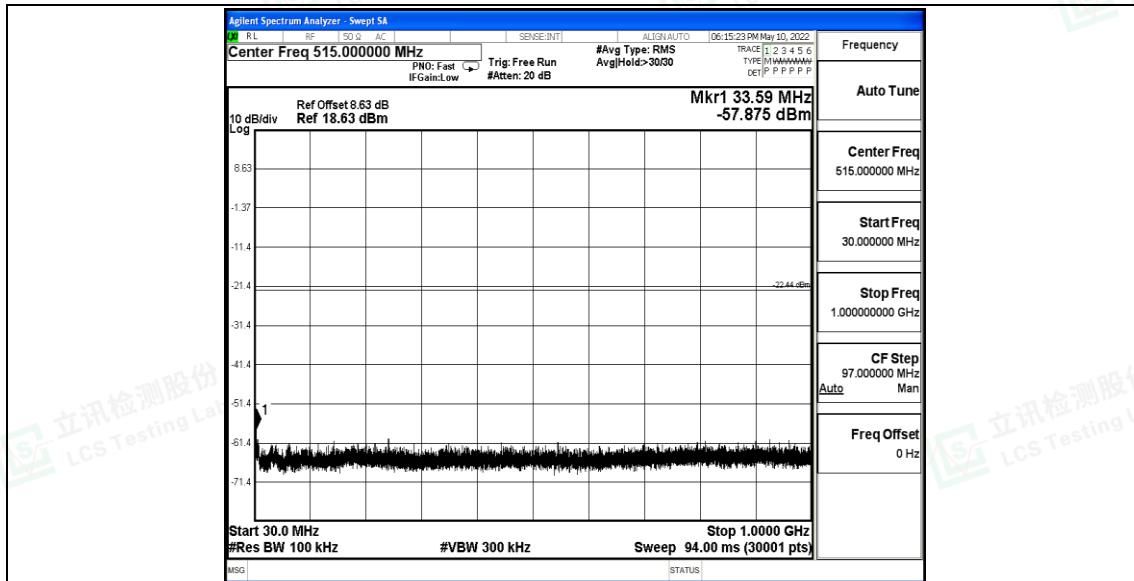


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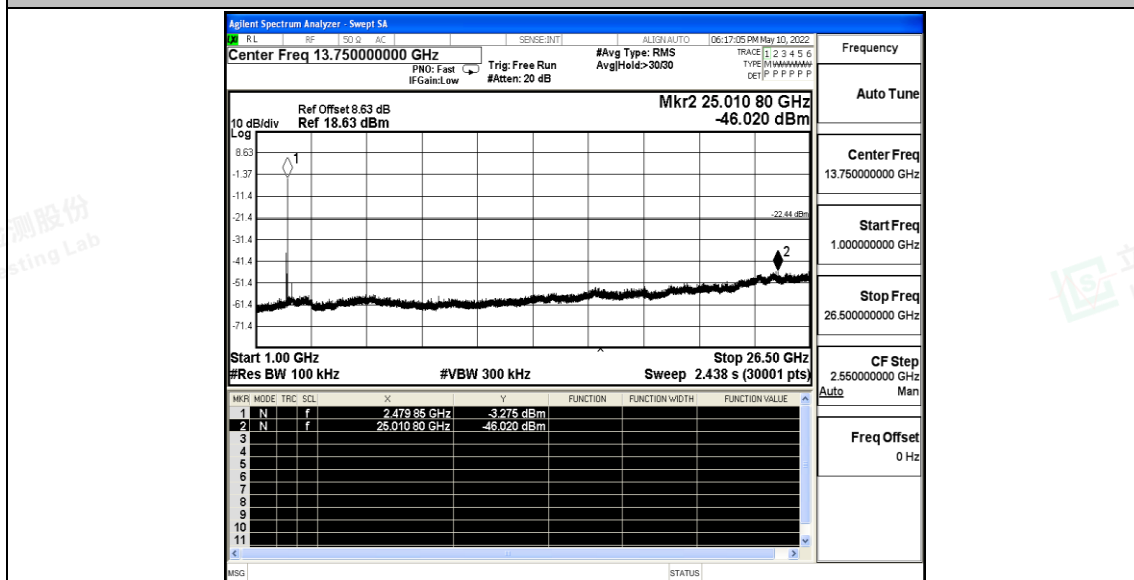
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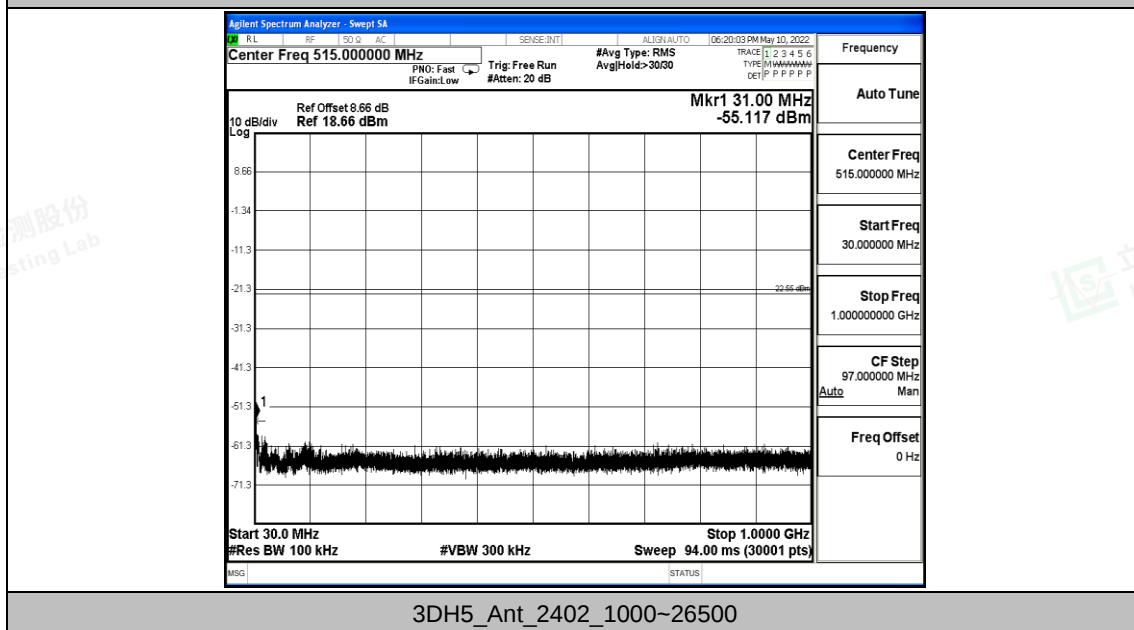
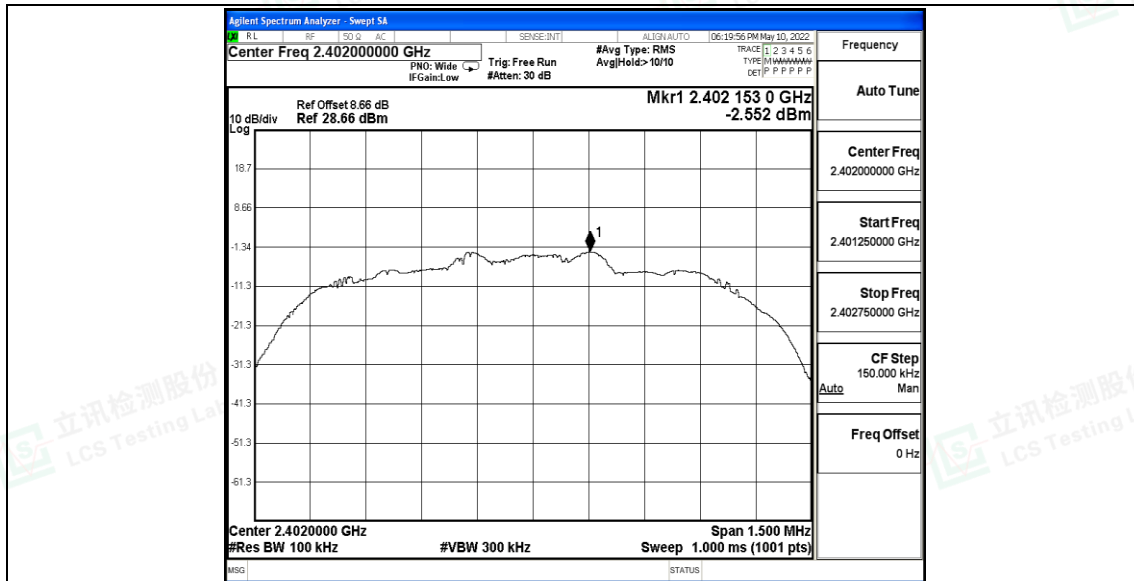


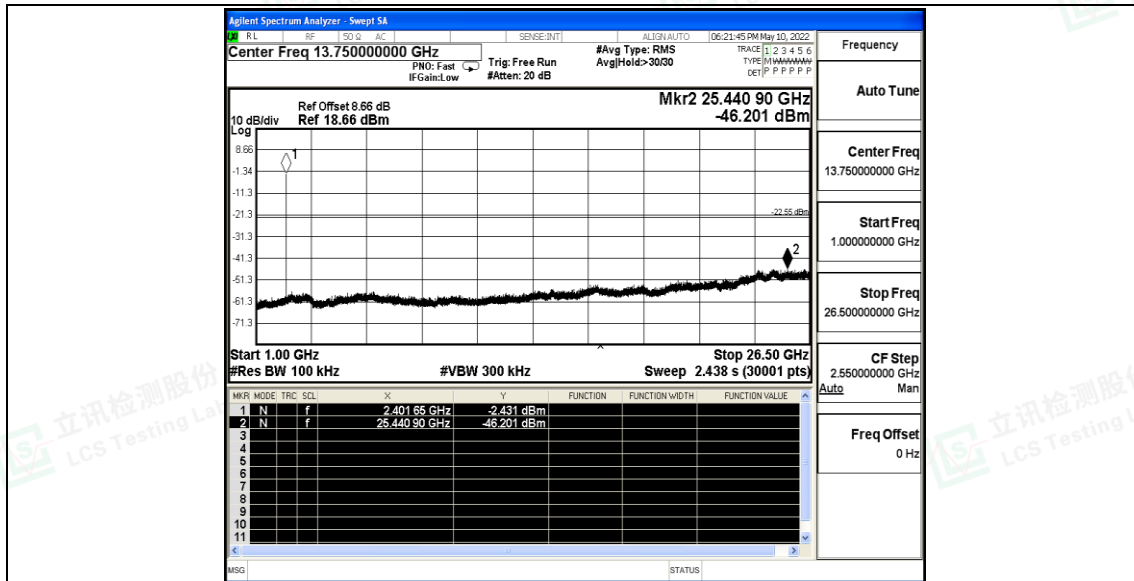
2DH5_Ant_2480_1000~26500



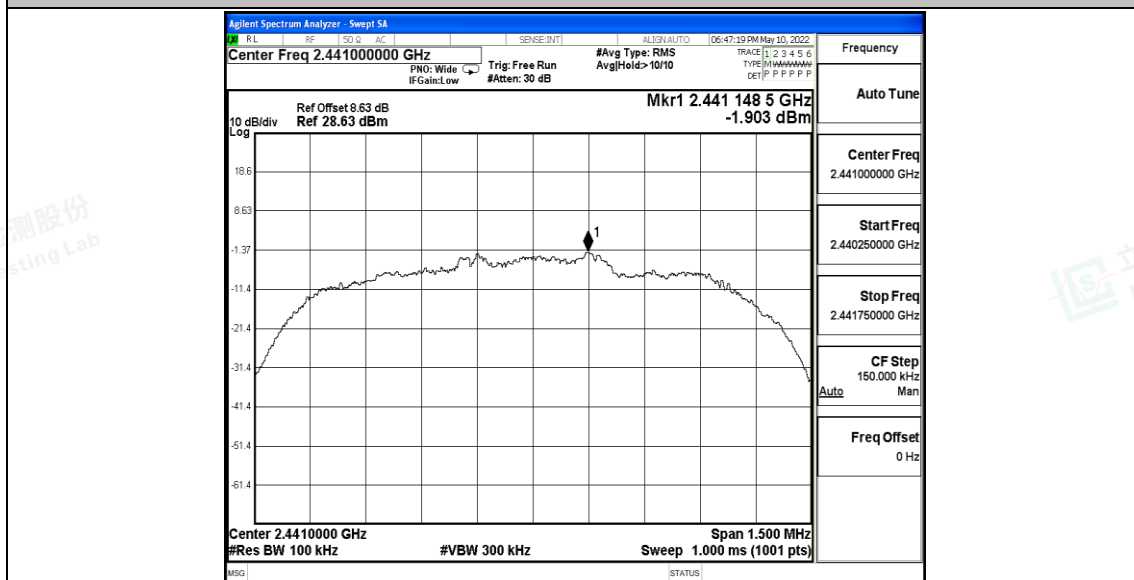
3DH5_Ant_2402_0-Reference







3DH5_Ant_2441_0~Reference



3DH5_Ant_2441_30~1000

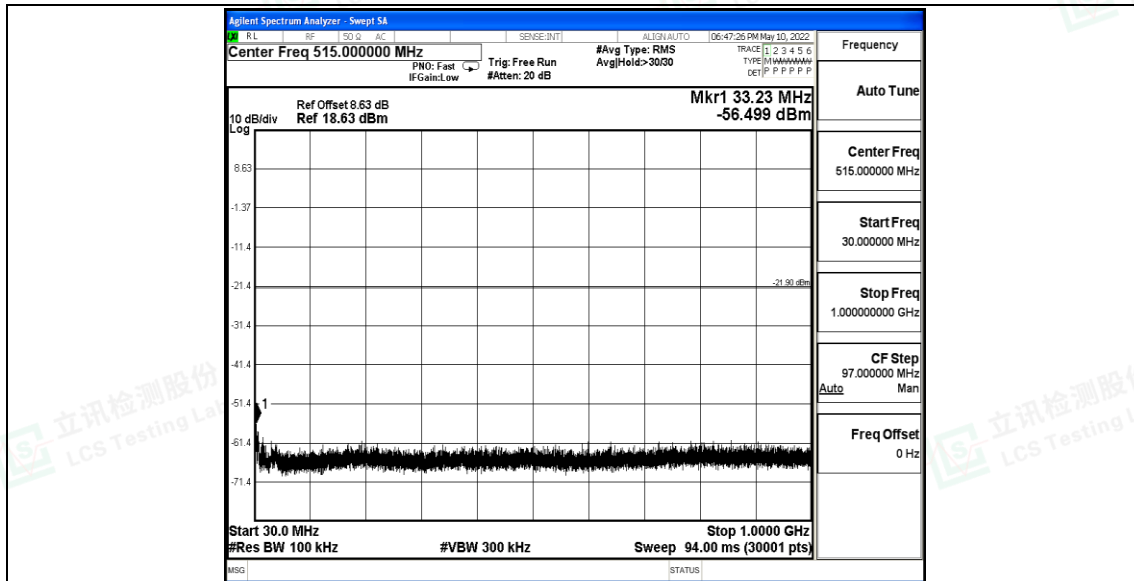


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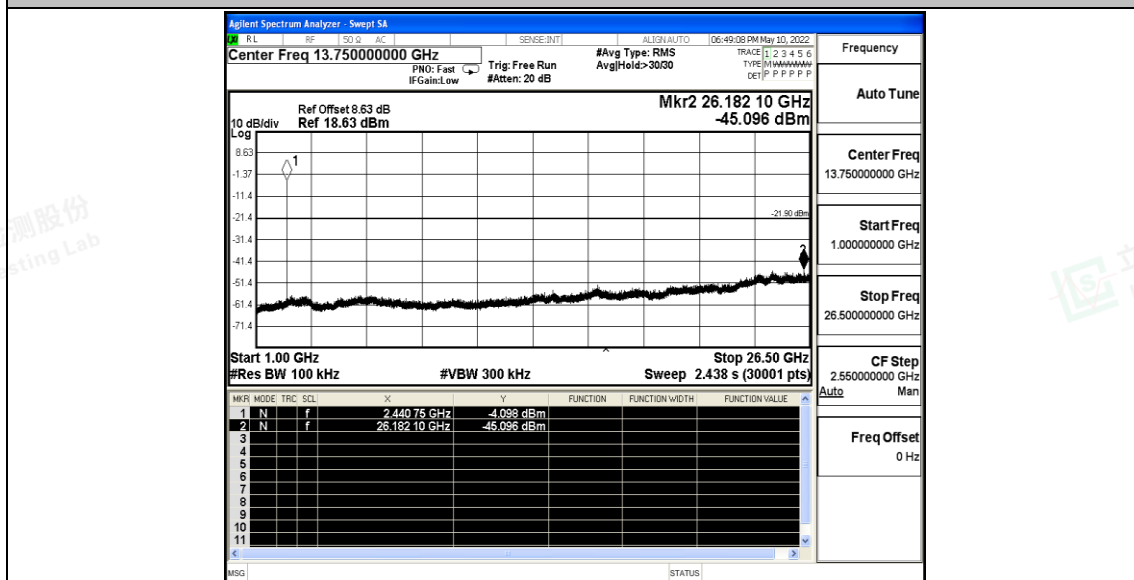
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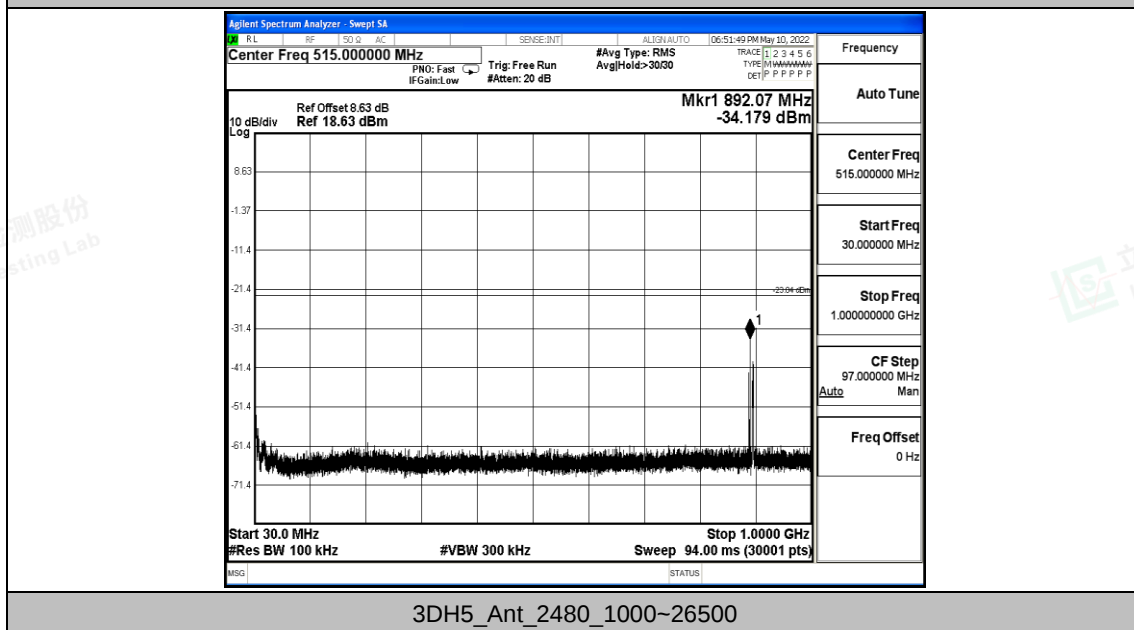
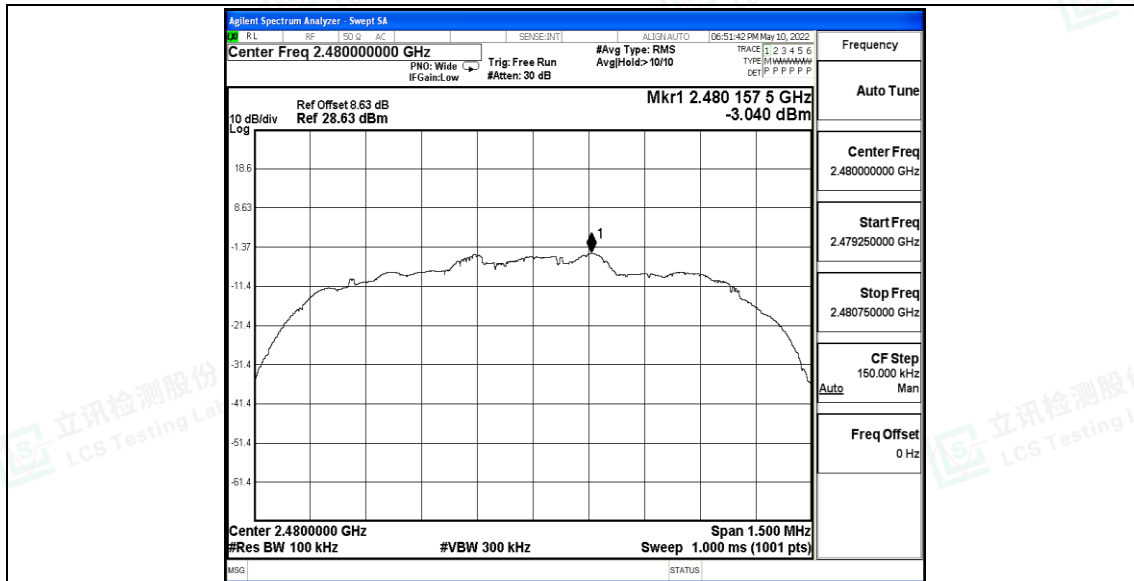


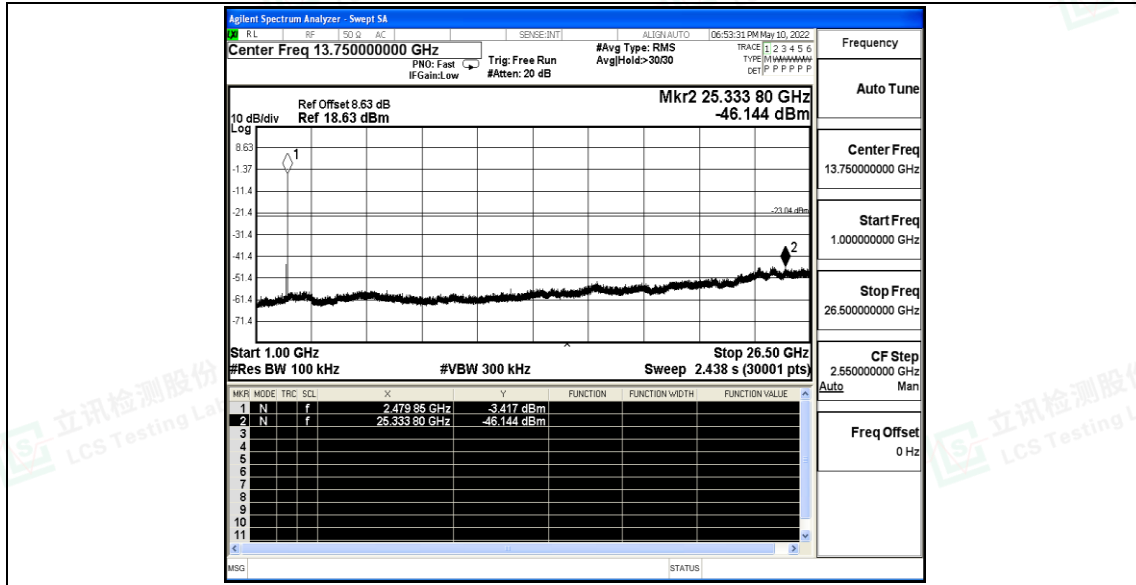
3DH5_Ant_2441_1000~26500



3DH5_Ant_2480_0~Reference









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	Ant	Low	2402	AV	2310.000	-48.28	≤-41.20	46.92	≤54	PASS
				AV	2389.775	-47.81	≤-41.20	47.39	≤54	PASS
				AV	2390.000	-47.97	≤-41.20	47.23	≤54	PASS
				Peak	2310.000	-39.12	≤-21.20	56.08	≤74	PASS
				Peak	2374.970	-36.56	≤-21.20	58.64	≤74	PASS
				Peak	2390.000	-37.77	≤-21.20	57.43	≤74	PASS
		High	2480	AV	2483.500	-47.37	≤-41.20	47.83	≤54	PASS
				AV	2499.120	-47.28	≤-41.20	47.92	≤54	PASS
				AV	2500.000	-47.28	≤-41.20	47.92	≤54	PASS
				Peak	2483.500	-37.65	≤-21.20	57.55	≤74	PASS
				Peak	2496.400	-36.43	≤-21.20	58.77	≤74	PASS
				Peak	2500.000	-37.37	≤-21.20	57.83	≤74	PASS
2DH5	Ant	Low	2402	AV	2310.000	-48.14	≤-41.20	47.06	≤54	PASS
				AV	2385.365	-47.72	≤-41.20	47.48	≤54	PASS
				AV	2390.000	-47.94	≤-41.20	47.26	≤54	PASS
				Peak	2310.000	-38.5	≤-21.20	56.70	≤74	PASS
				Peak	2367.830	-36.77	≤-21.20	58.43	≤74	PASS
				Peak	2390.000	-38.5	≤-21.20	56.70	≤74	PASS
		High	2480	AV	2483.500	-47.39	≤-41.20	47.81	≤54	PASS
				AV	2494.560	-47.19	≤-41.20	48.01	≤54	PASS
				AV	2500.000	-47.26	≤-41.20	47.94	≤54	PASS
				Peak	2483.500	-36.9	≤-21.20	58.30	≤74	PASS
				Peak	2499.440	-35.7	≤-21.20	59.50	≤74	PASS
				Peak	2500.000	-38.45	≤-21.20	56.75	≤74	PASS
3DH5	Ant	Low	2402	AV	2310.000	-48.34	≤-41.20	46.86	≤54	PASS
				AV	2388.830	-47.74	≤-41.20	47.46	≤54	PASS
				AV	2390.000	-47.88	≤-41.20	47.32	≤54	PASS
				Peak	2310.000	-39.05	≤-21.20	56.15	≤74	PASS
				Peak	2382.530	-36.53	≤-21.20	58.67	≤74	PASS
				Peak	2390.000	-37.53	≤-21.20	57.67	≤74	PASS
		High	2480	AV	2483.500	-47.44	≤-41.20	47.76	≤54	PASS
				AV	2498.000	-47.26	≤-41.20	47.94	≤54	PASS
				AV	2500.000	-47.38	≤-41.20	47.82	≤54	PASS
				Peak	2483.500	-37.96	≤-21.20	57.24	≤74	PASS
				Peak	2489.440	-36.35	≤-21.20	58.85	≤74	PASS



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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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				Peak	2500.000	-38.81	≤-21.20	56.39	≤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

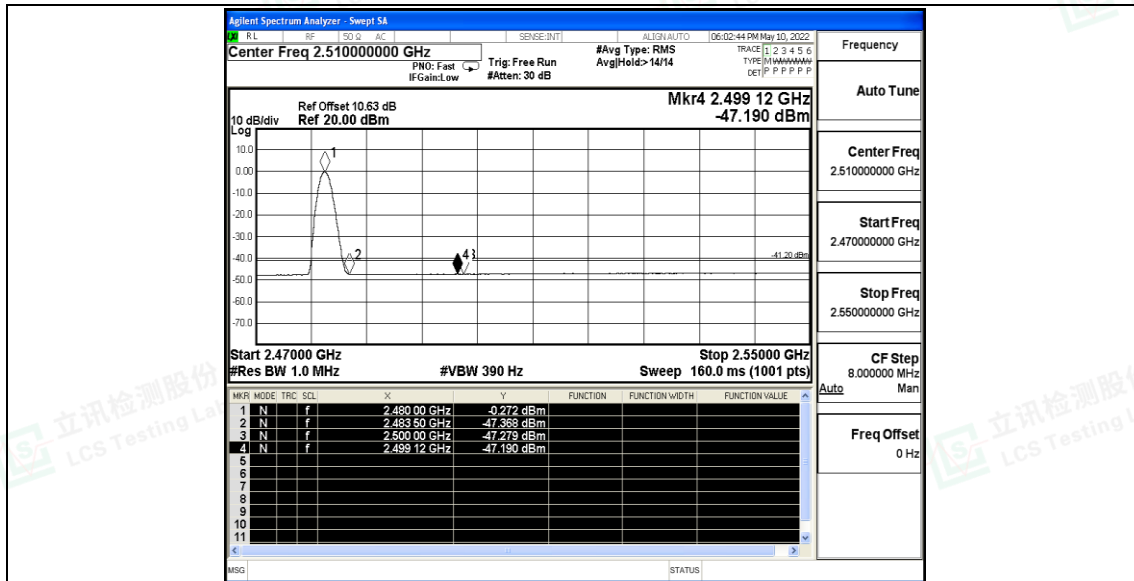


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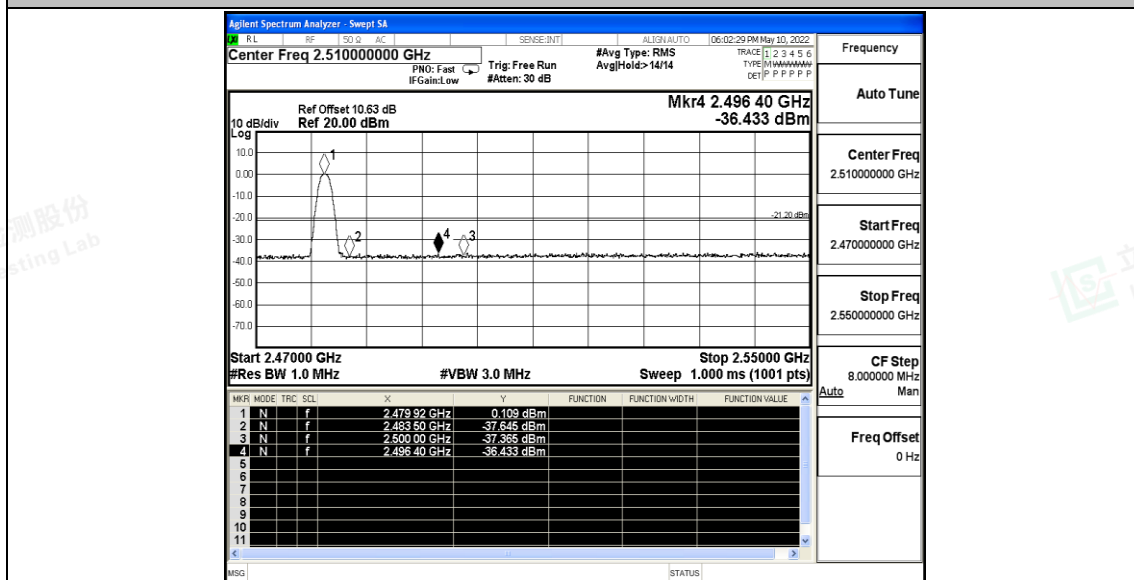
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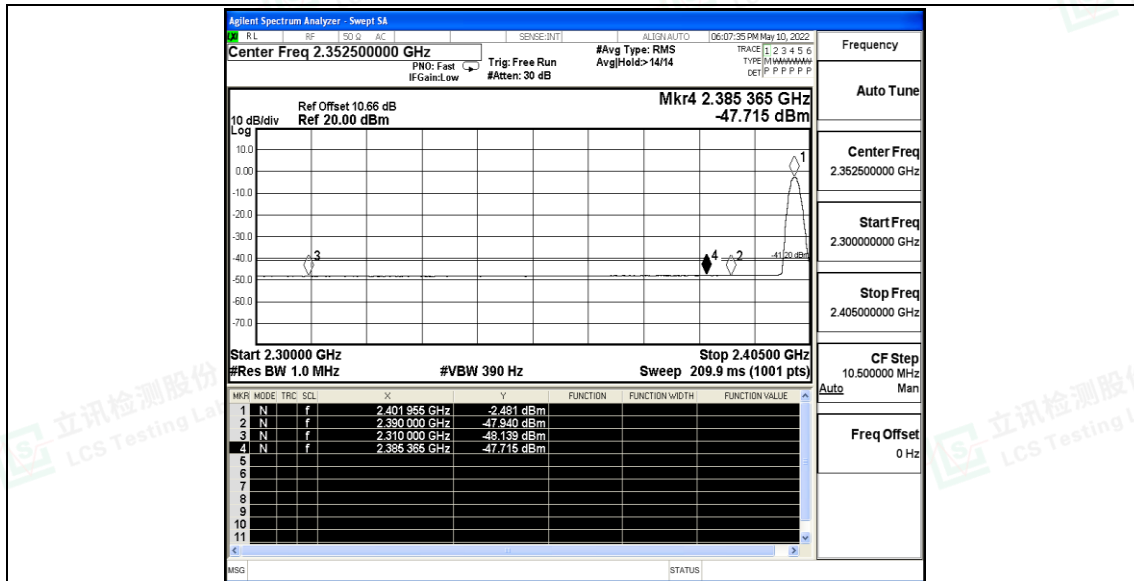


DH5_Ant_High_2480_Peak

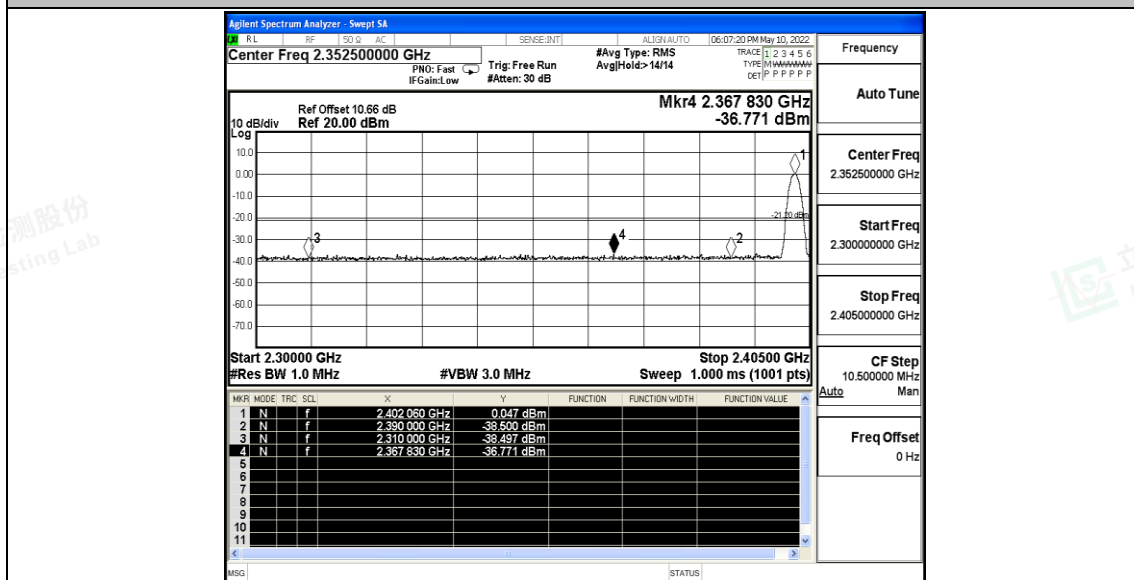


2DH5_Ant_Low_2402_AV





2DH5_Ant_Low_2402_Peak



2DH5_Ant_High_2480_AV

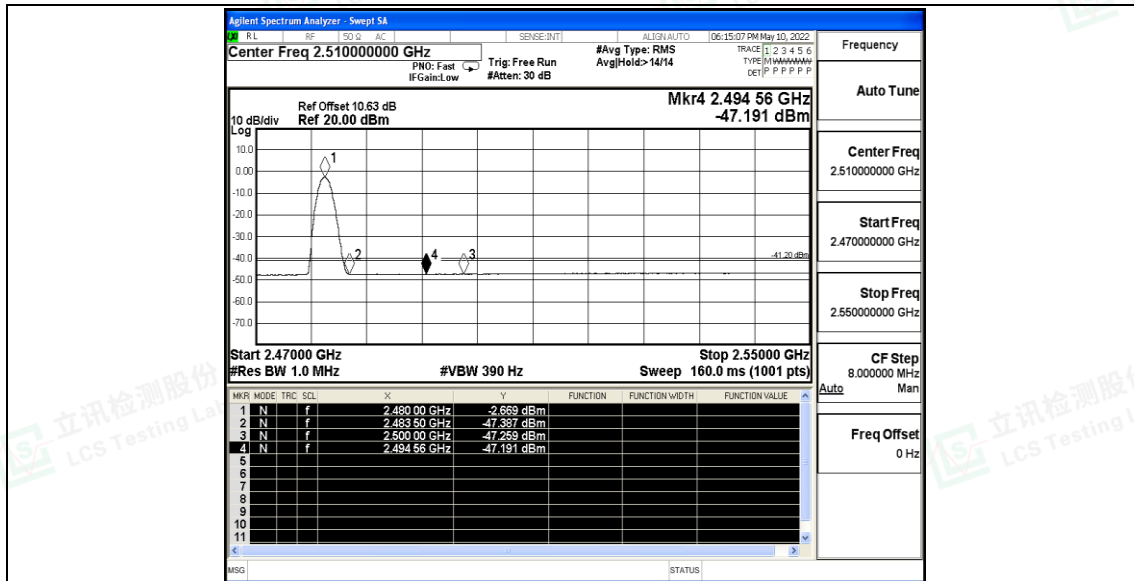


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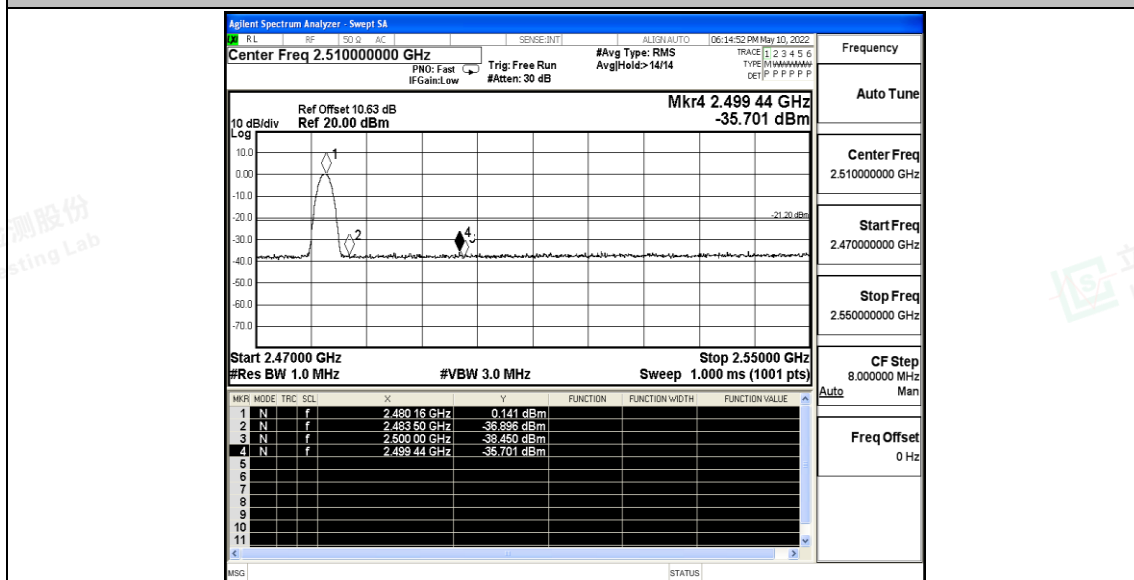
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2DH5_Ant_High_2480_Peak



3DH5_Ant_Low_2402_AV

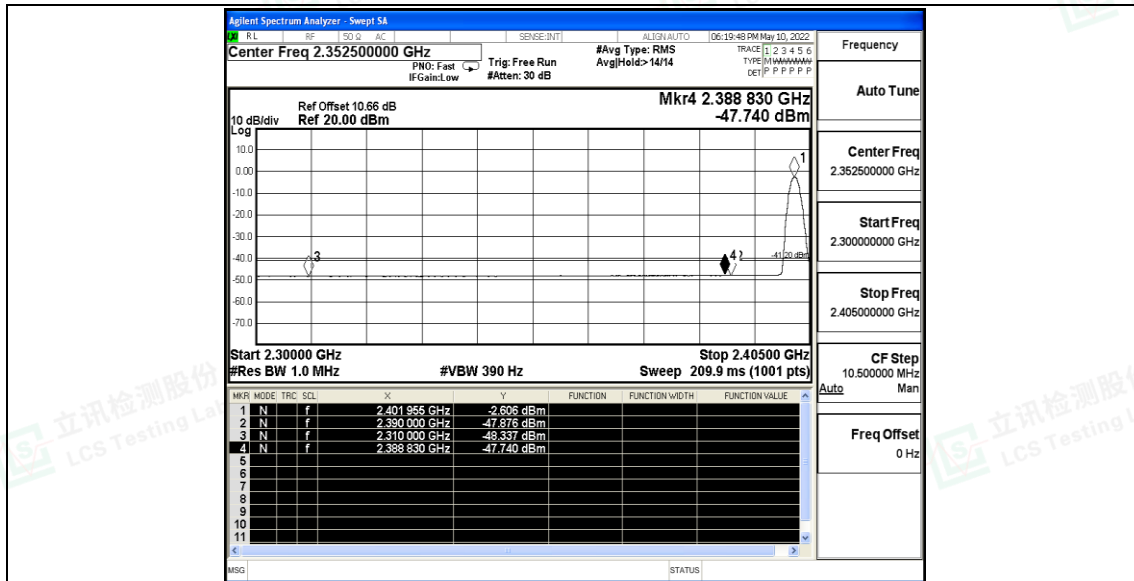


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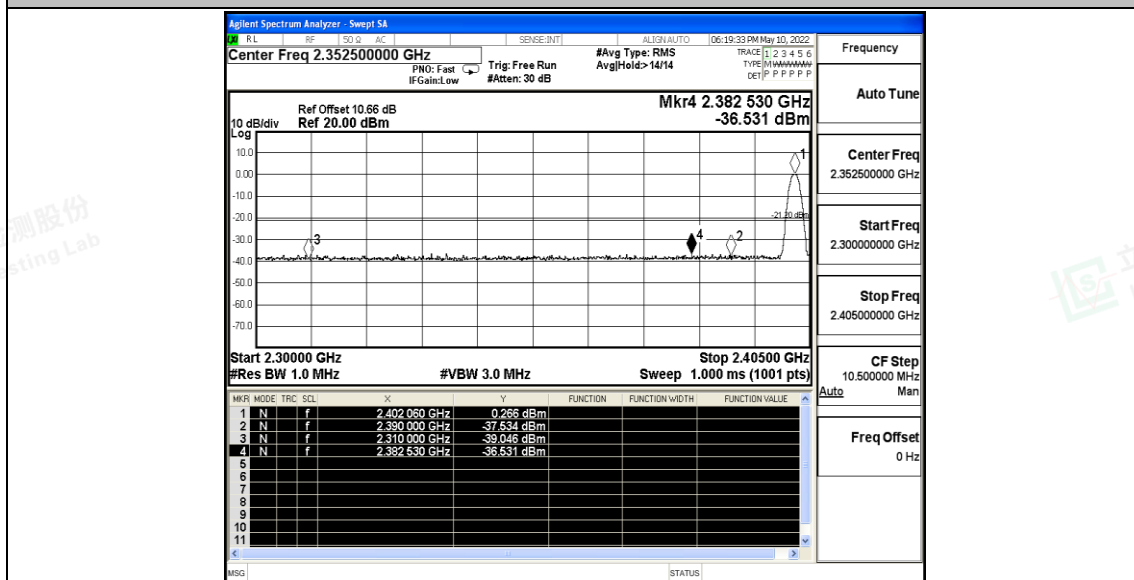
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3DH5_Ant_Low_2402_Peak



3DH5_Ant_High_2480_AV

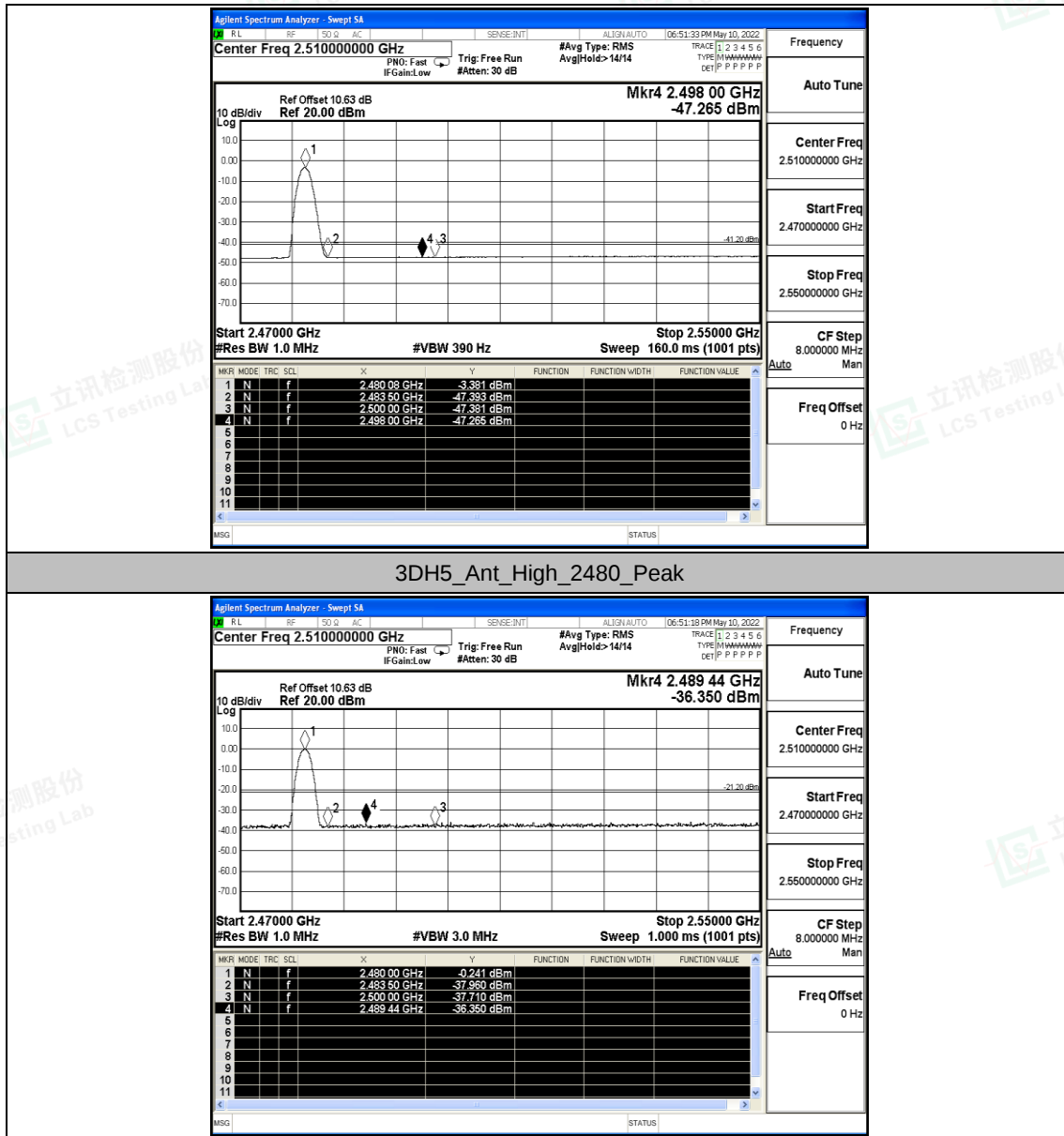


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