



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: FM Transmitter

Test Model: BT99

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu



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A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	0.996	2401.502	2402.498	---
		2441	1.032	2440.460	2441.492	---
		2480	1.047	2479.451	2480.498	---
2DH5	Ant1	2402	1.314	2401.331	2402.645	---
		2441	1.317	2440.328	2441.645	---
		2480	1.347	2479.316	2480.663	---
3DH5	Ant1	2402	1.278	2401.343	2402.621	---
		2441	1.314	2440.334	2441.648	---
		2480	1.308	2479.337	2480.645	---



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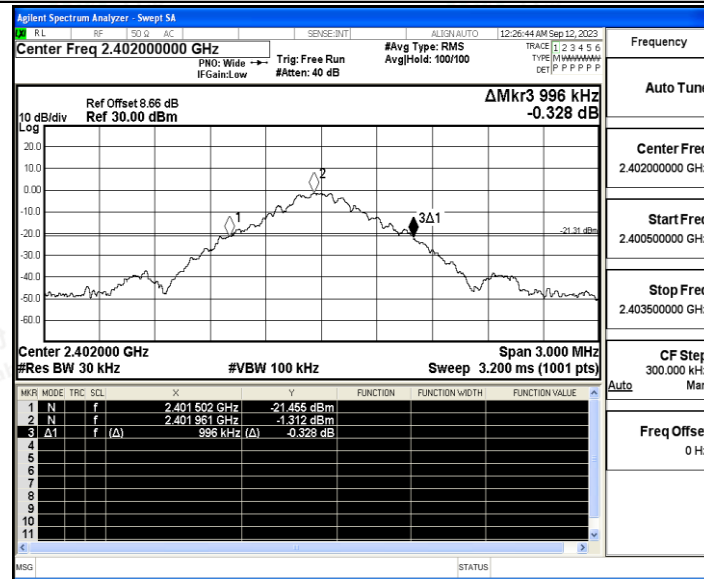
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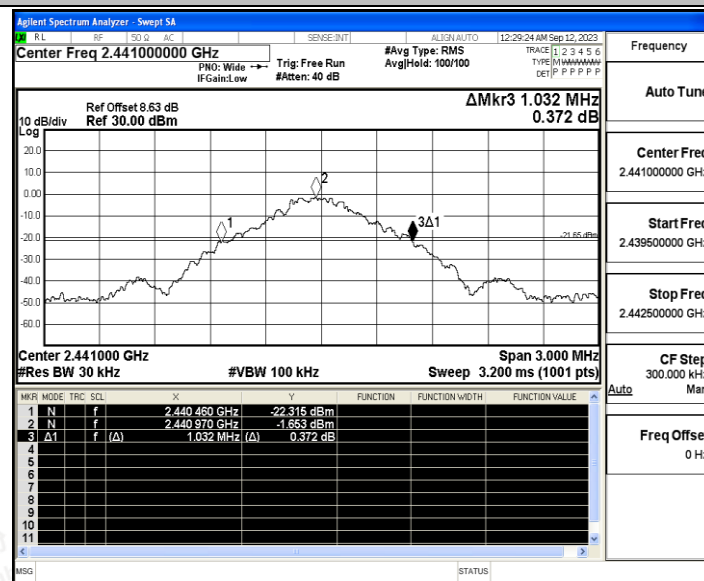


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

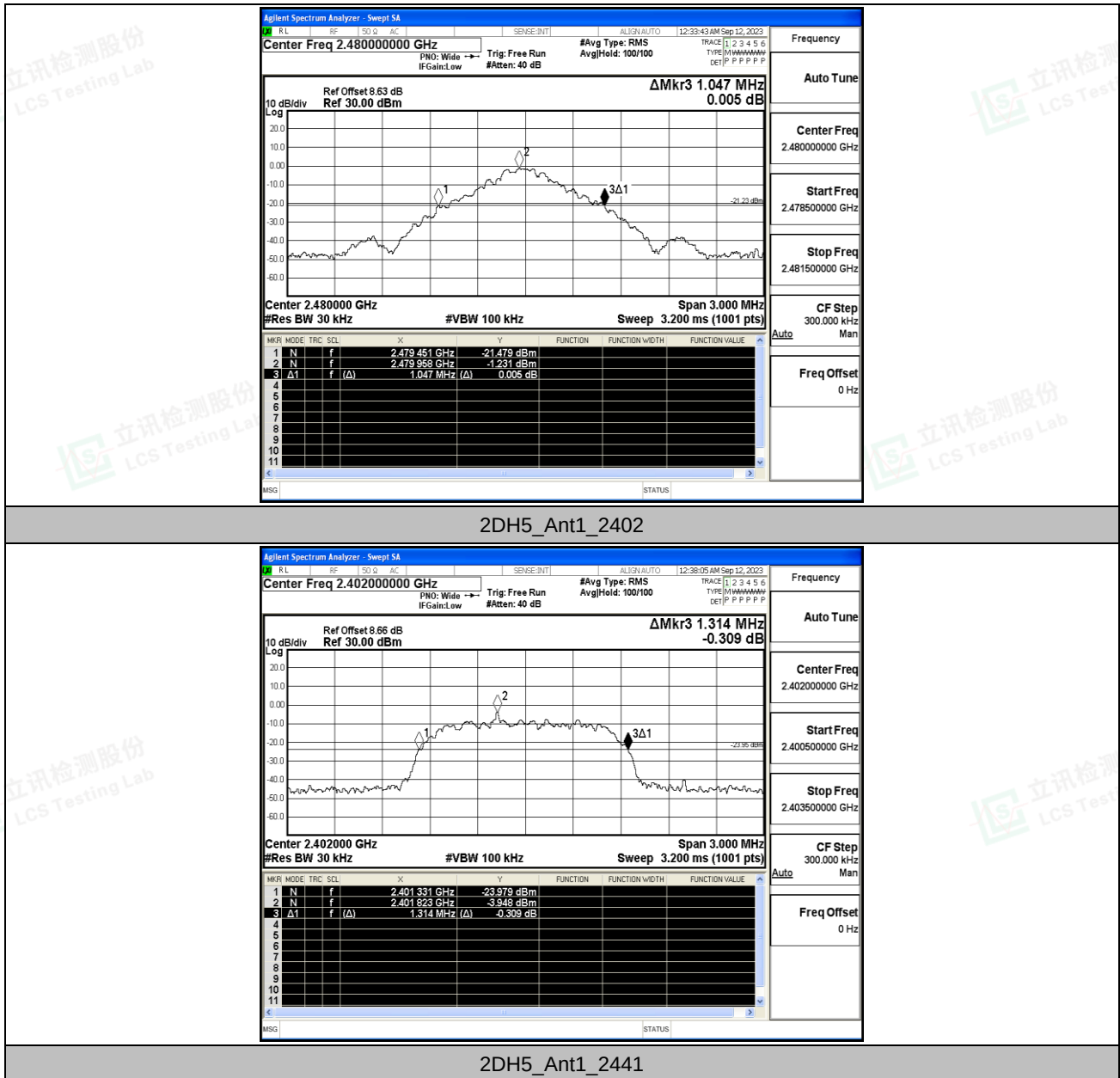


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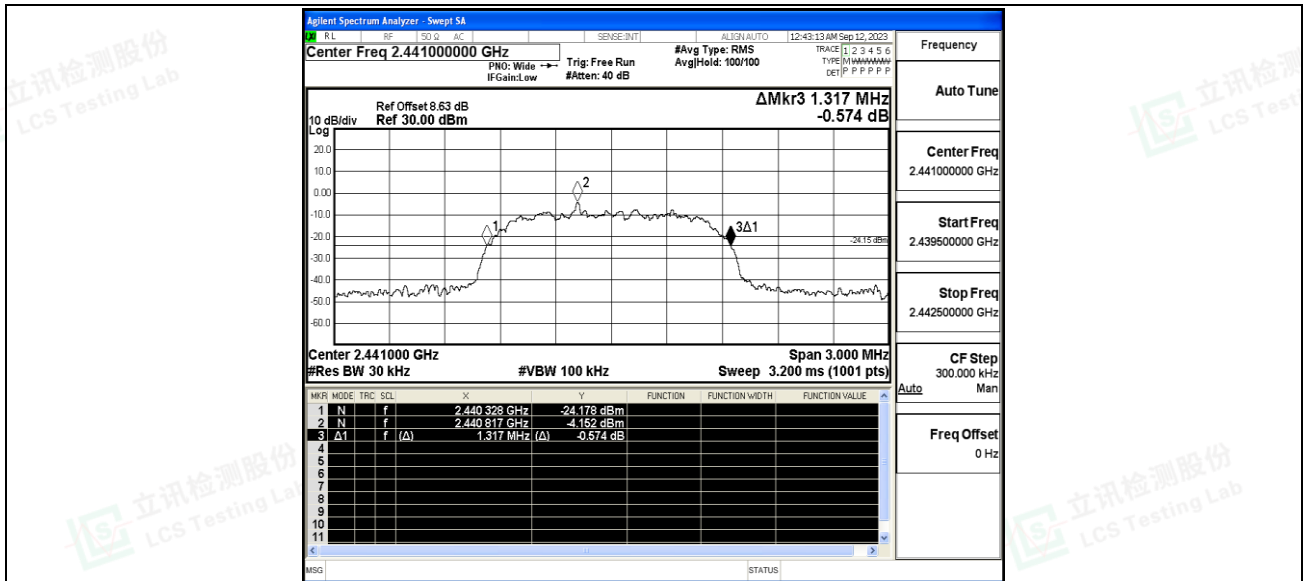


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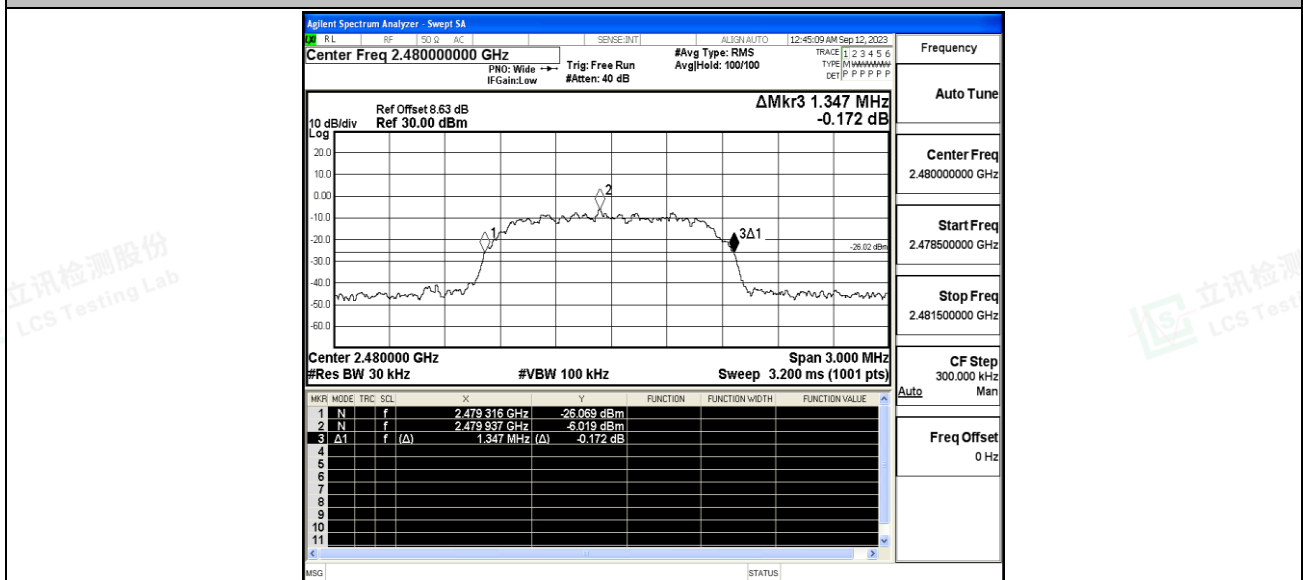
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2DH5_Ant1_2480



3DH5_Ant1_2402

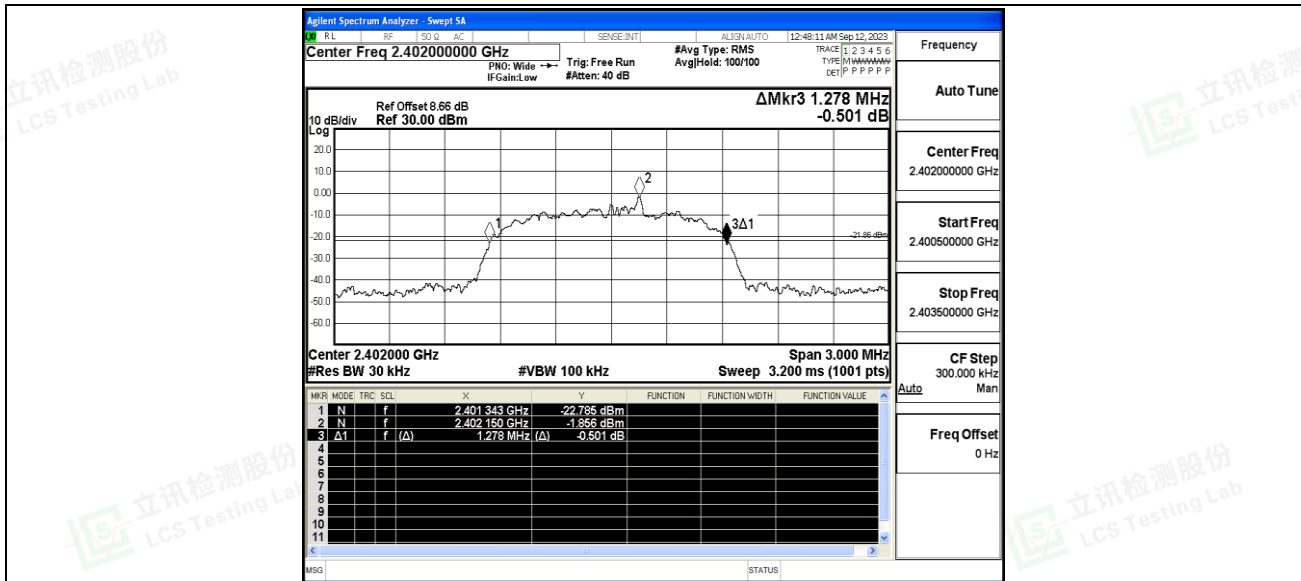


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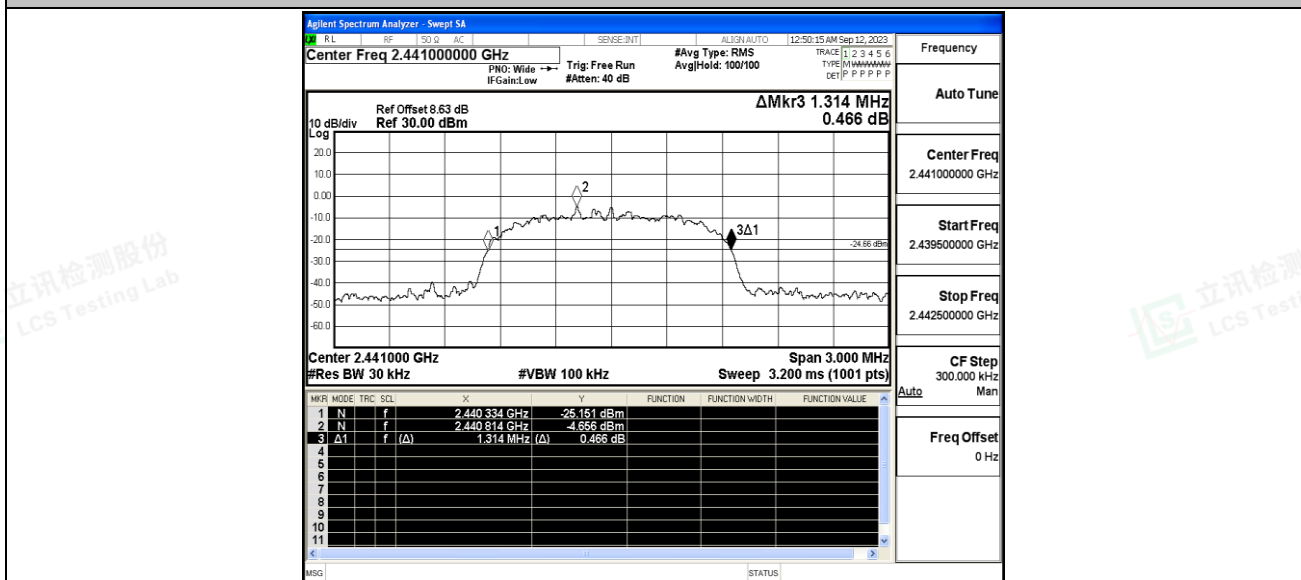
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3DH5_Ant1_2441



3DH5_Ant1_2480

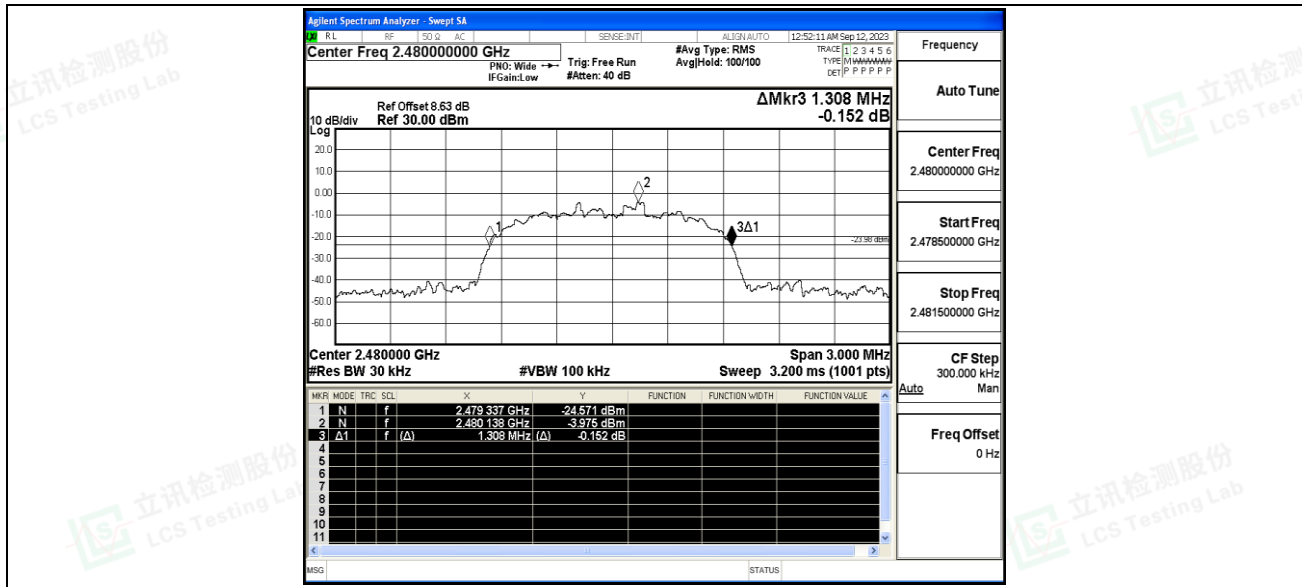


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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.74	≤20.97	PASS
		2441	1.96	≤20.97	PASS
		2480	1.82	≤20.97	PASS
2DH5	Ant1	2402	1.45	≤20.97	PASS
		2441	1.61	≤20.97	PASS
		2480	1.48	≤20.97	PASS
3DH5	Ant1	2402	1.54	≤20.97	PASS
		2441	1.74	≤20.97	PASS
		2480	1.56	≤20.97	PASS



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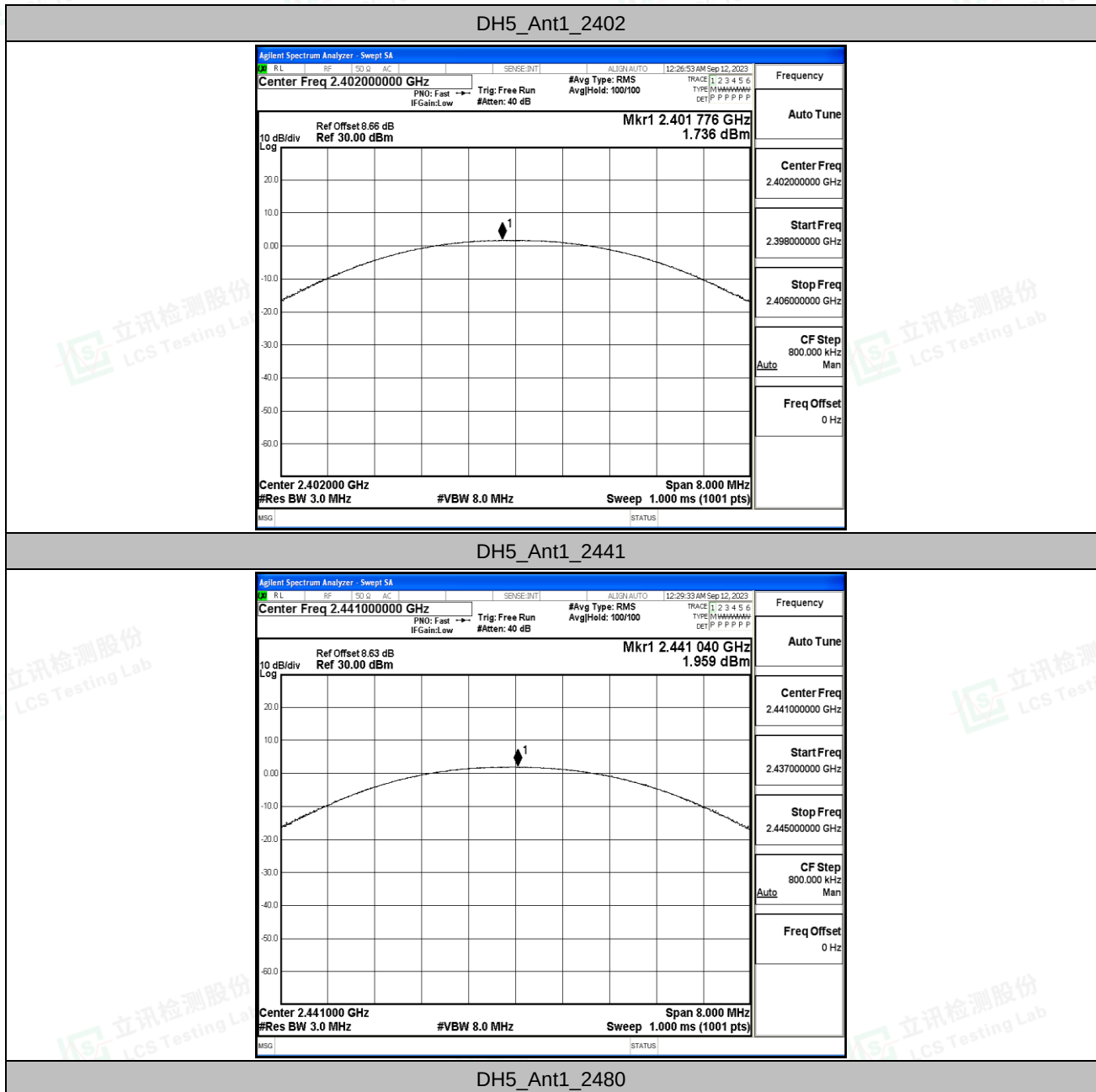
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Test Graphs

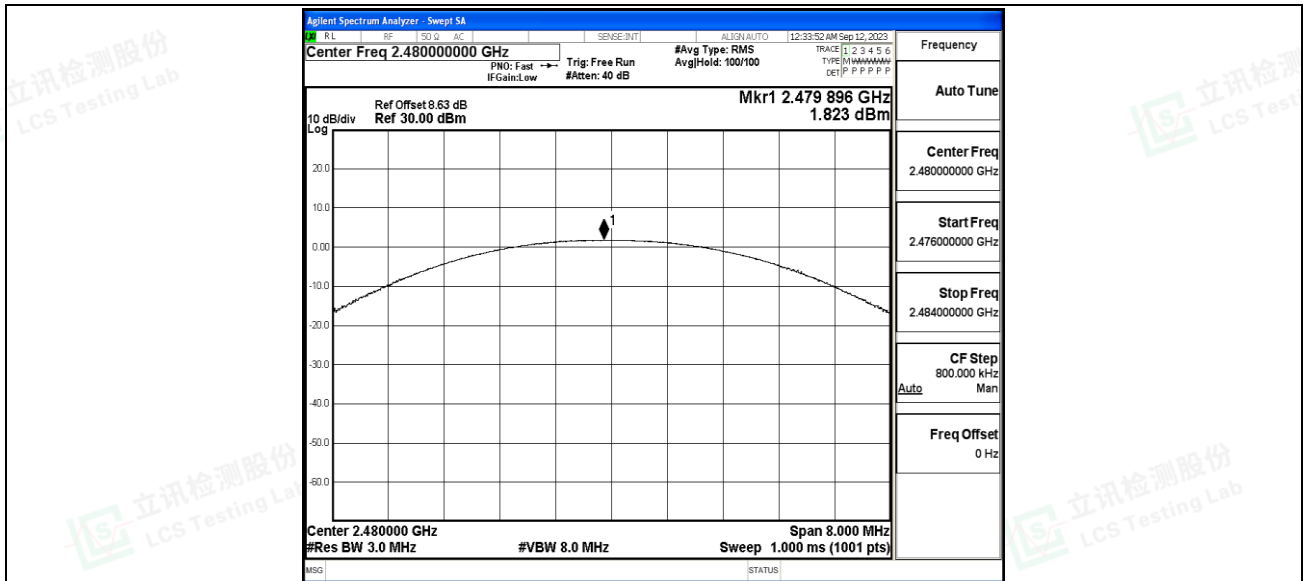


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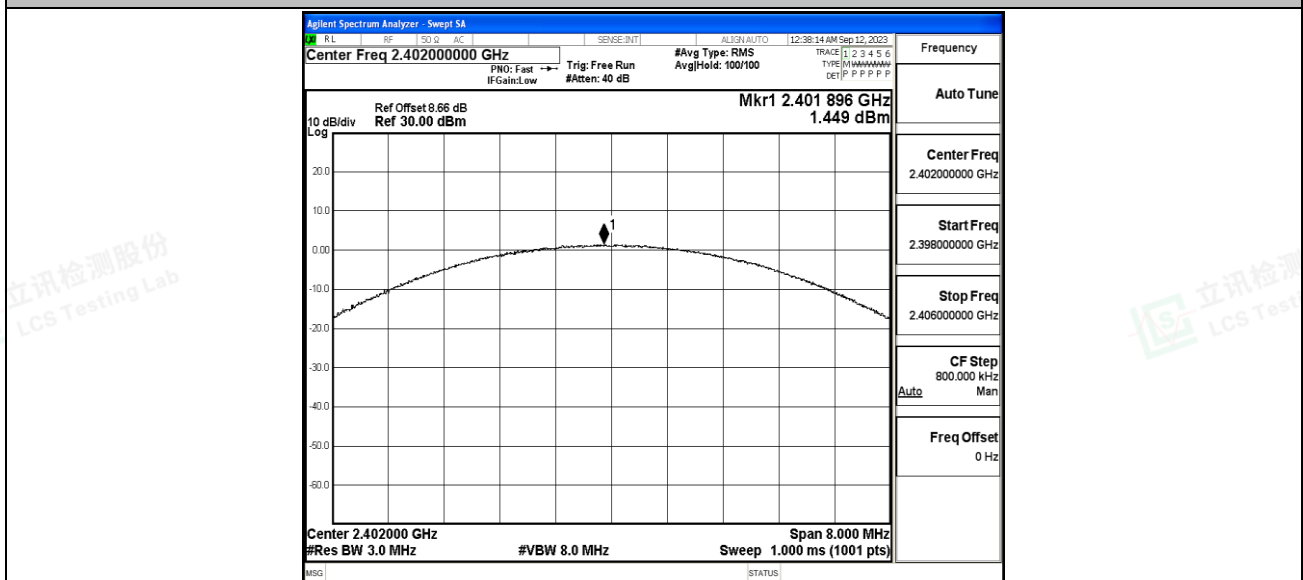
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2DH5_Ant1_2402



2DH5_Ant1_2441

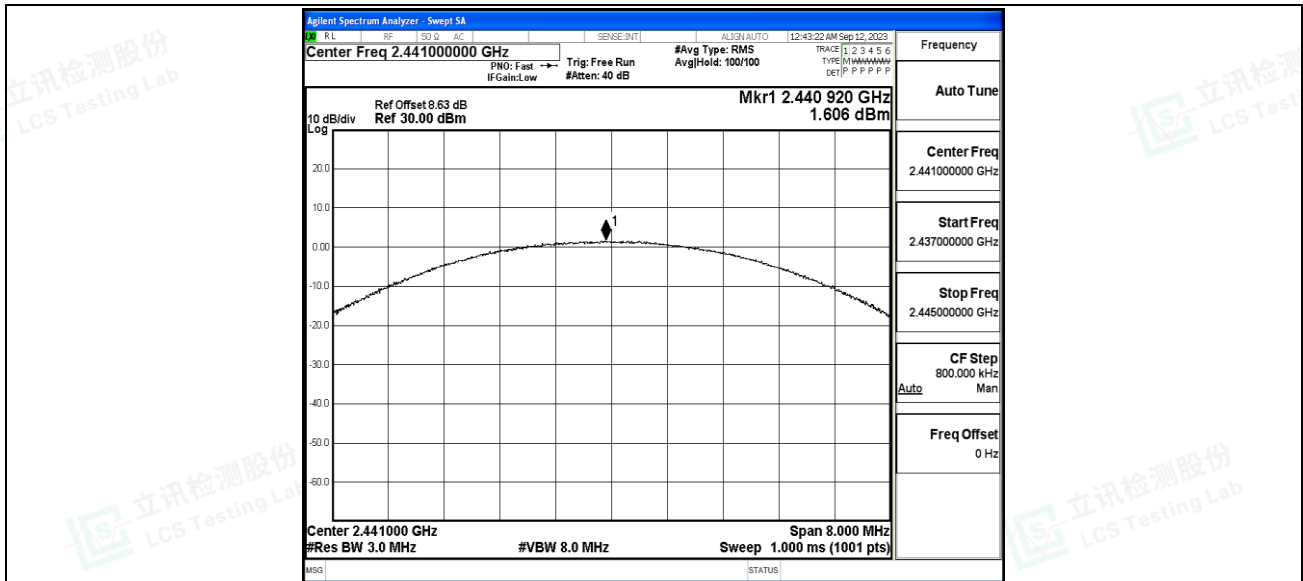


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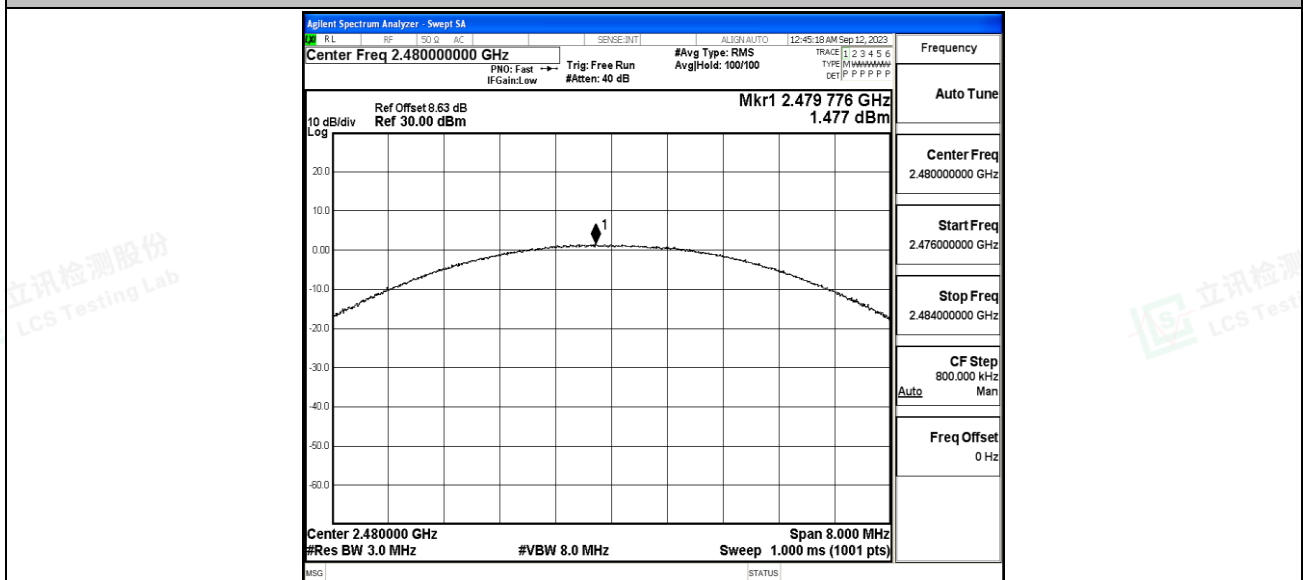
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2DH5_Ant1_2480



3DH5_Ant1_2402

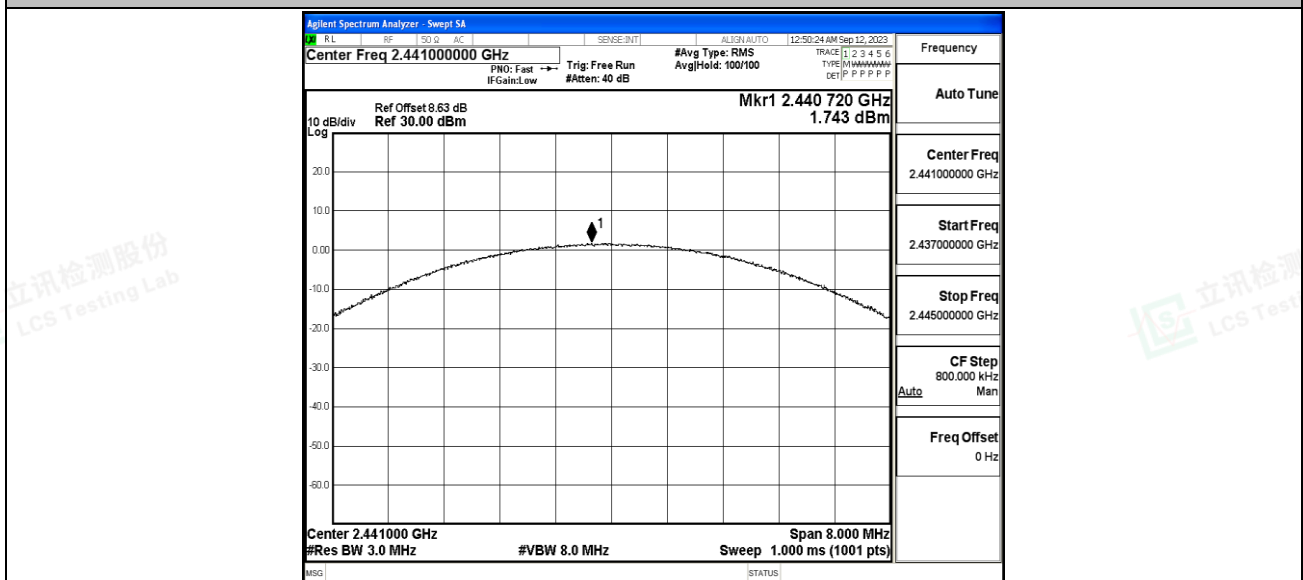
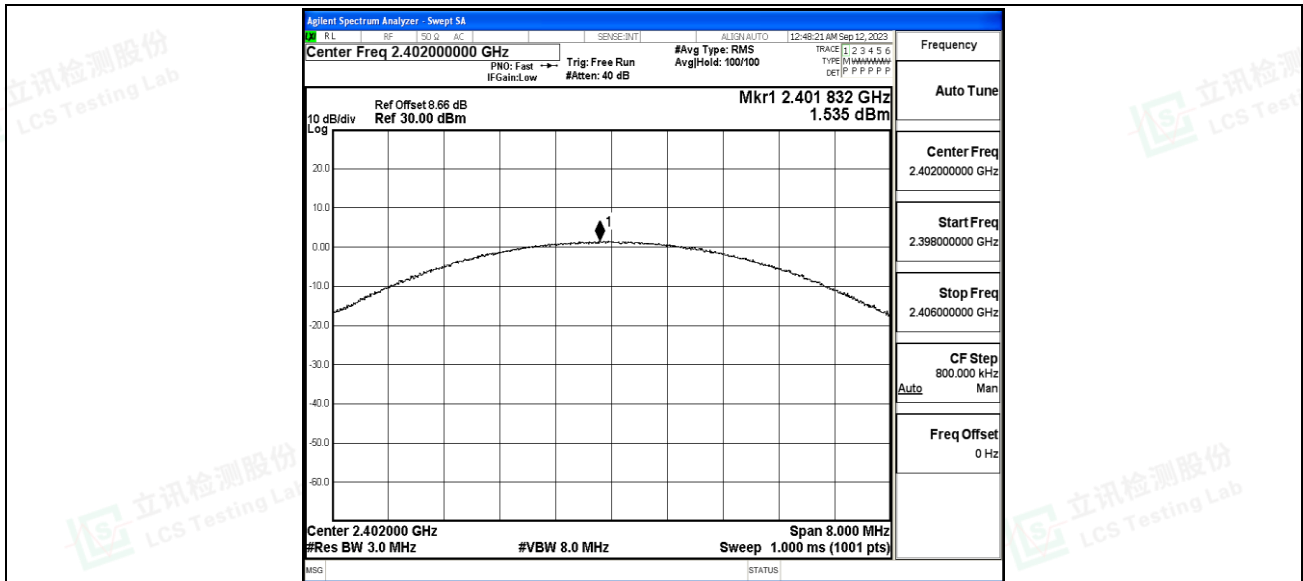


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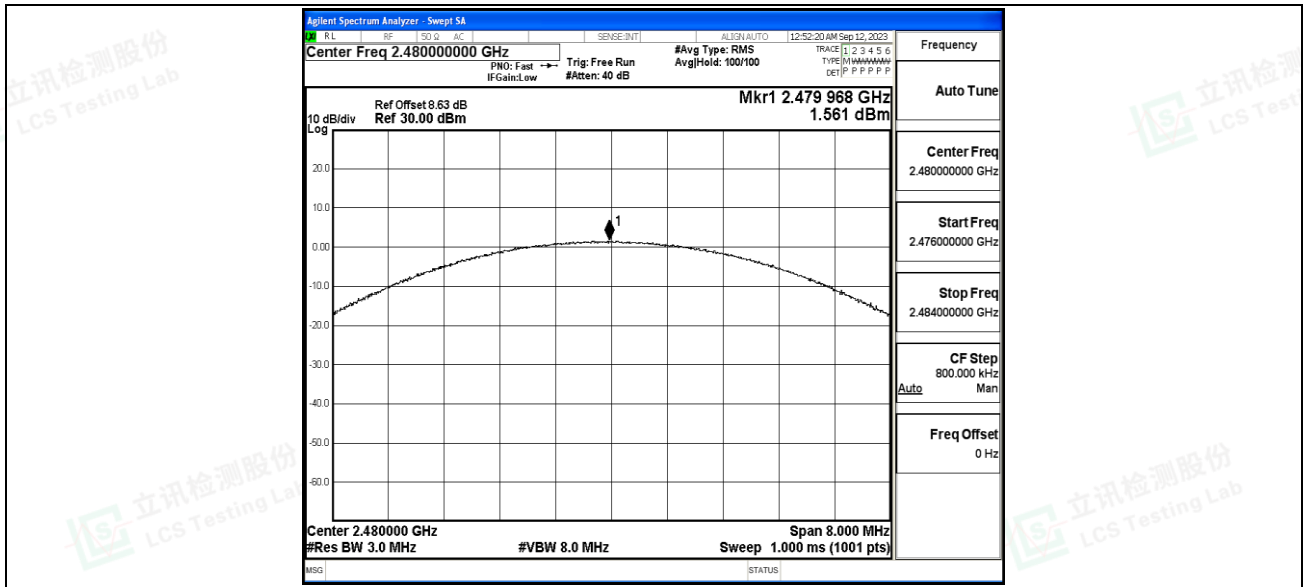


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A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.874	≥ 0.698	PASS
2DH5	Ant1	Hop	0.946	≥ 0.898	PASS
3DH5	Ant1	Hop	1.248	≥ 0.876	PASS



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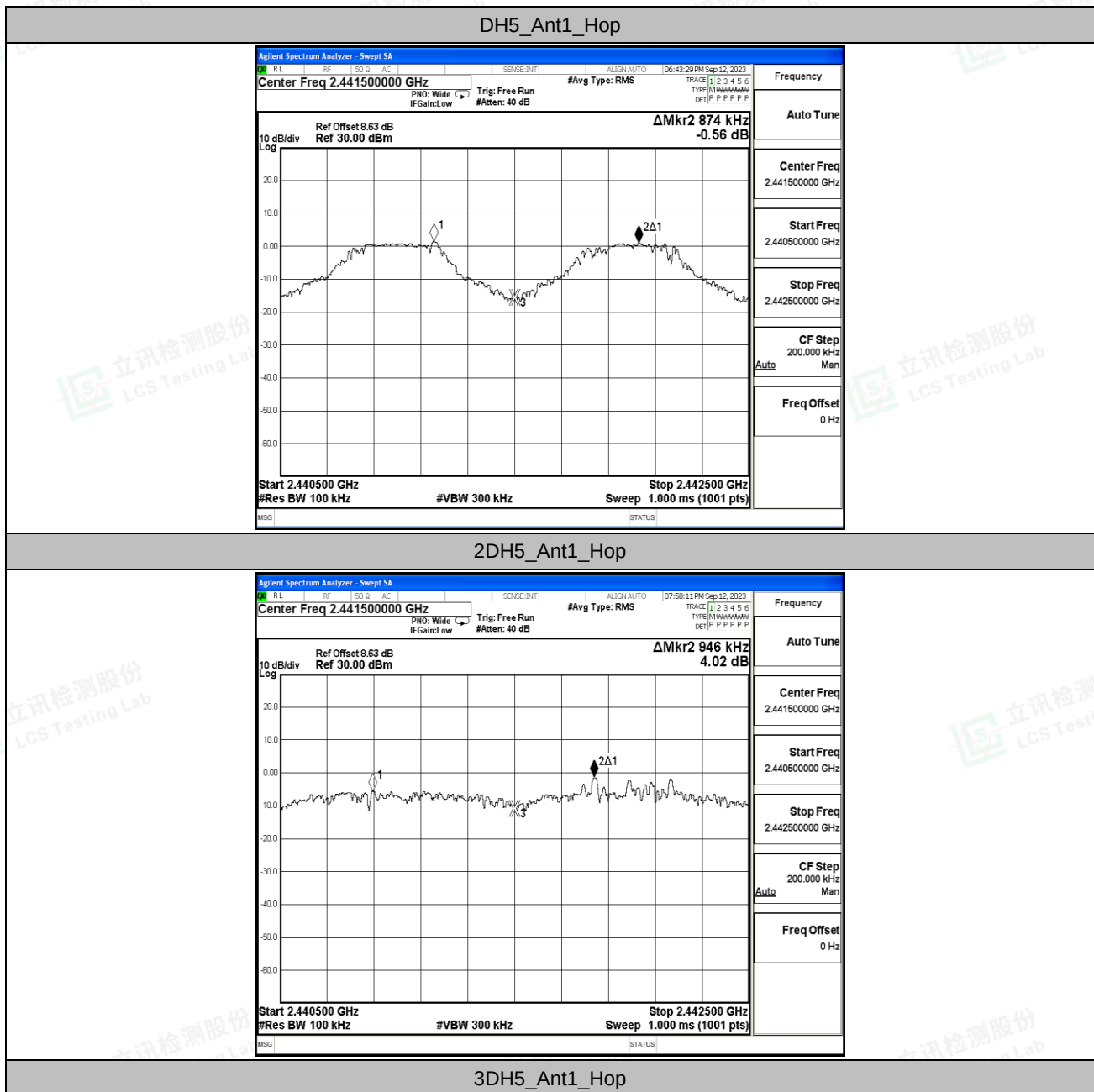
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Test Graphs

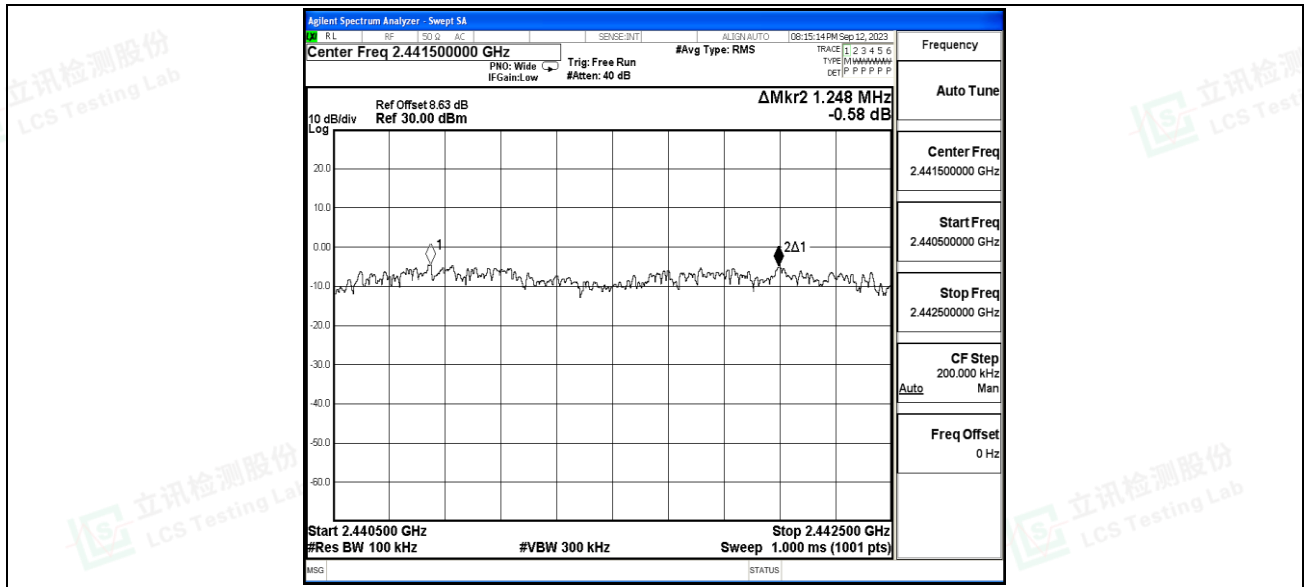


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A.4 Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.883	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.885	106.67	0.308	≤0.4	PASS



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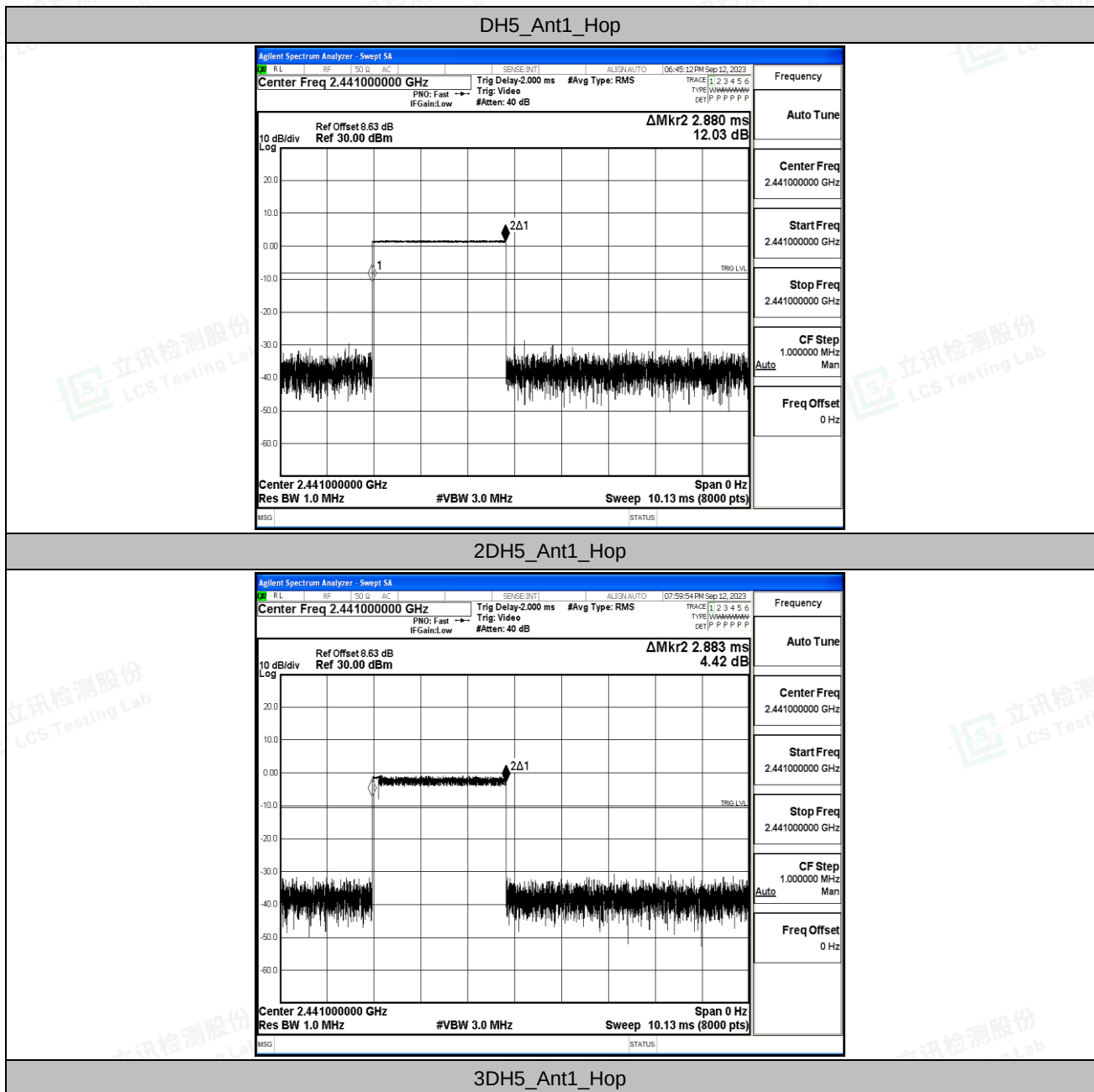
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Test Graphs

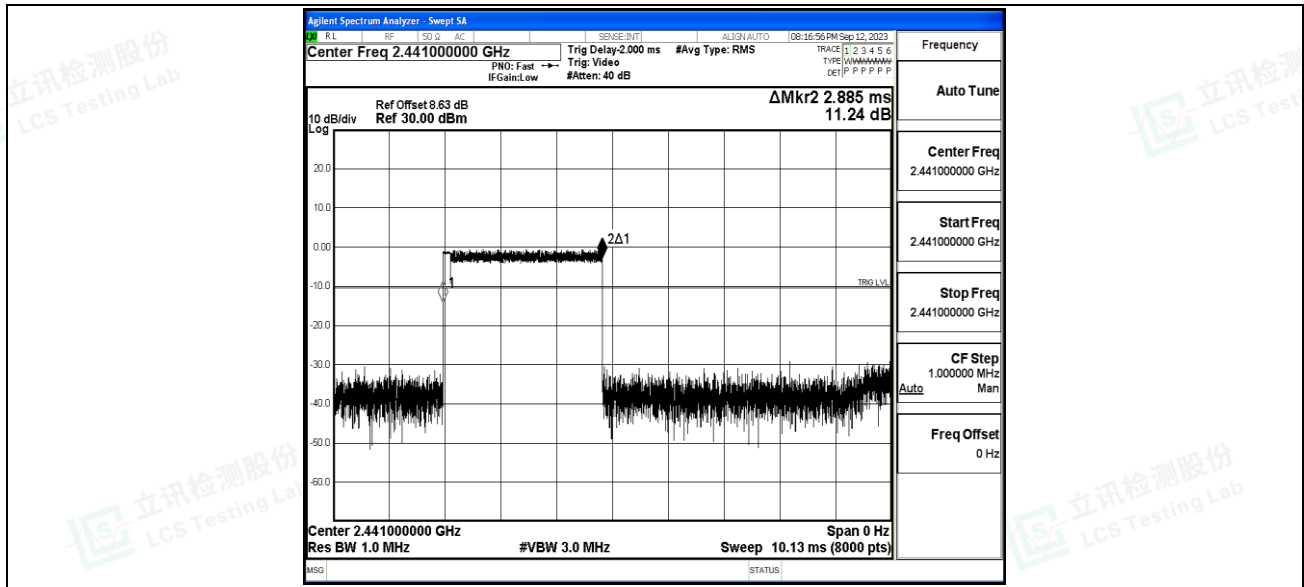


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A.5 Number of hopping channels

Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



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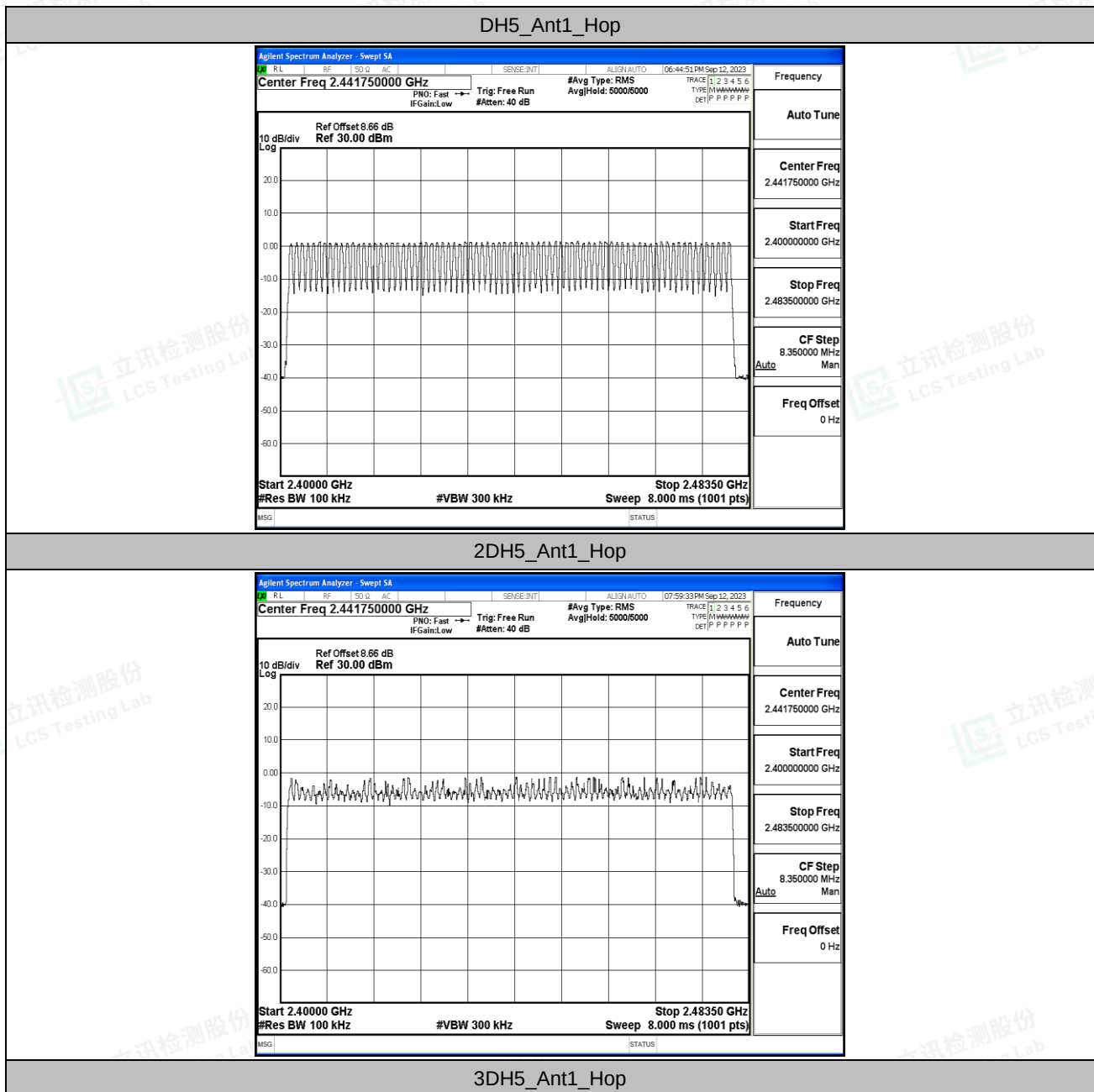
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Test Graphs

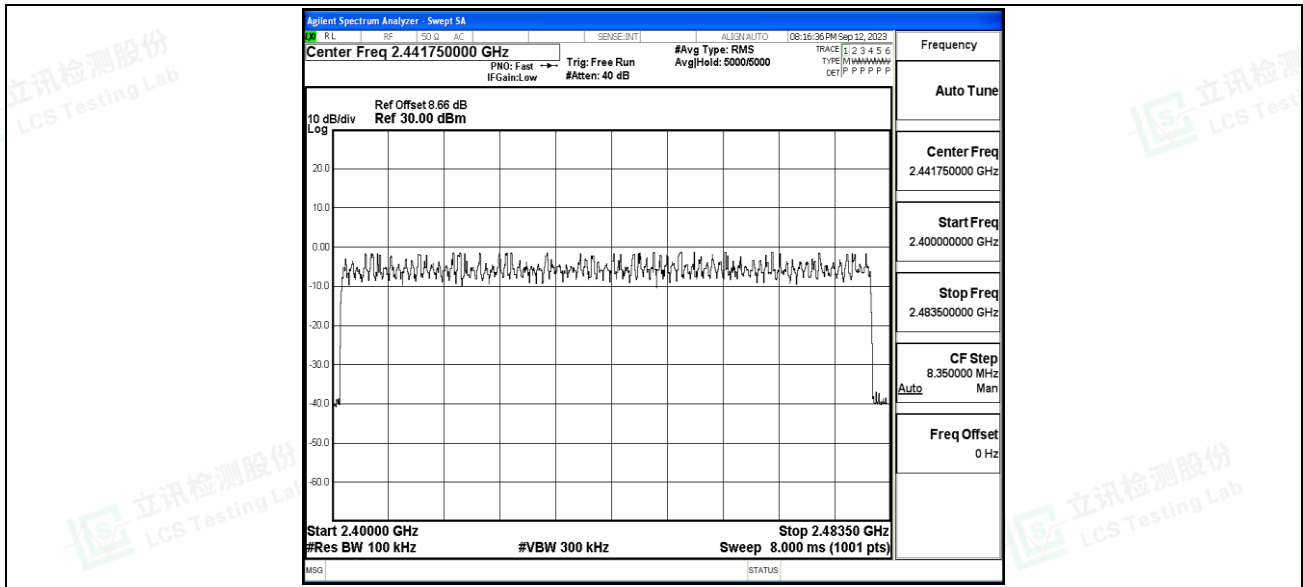


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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.14	-50.17	≤ -20.14	PASS
		High	2480	0.81	-48.3	≤ -19.19	PASS
		Low	Hop_2402	0.27	-48.87	≤ -19.73	PASS
		High	Hop_2480	1.18	-46.67	≤ -18.82	PASS
2DH5	Ant1	Low	2402	-3.92	-50.44	≤ -23.92	PASS
		High	2480	-3.23	-49.72	≤ -23.23	PASS
		Low	Hop_2402	-2.34	-49.16	≤ -22.34	PASS
		High	Hop_2480	-1.52	-47.49	≤ -21.52	PASS
3DH5	Ant1	Low	2402	-2.95	-49.52	≤ -22.95	PASS
		High	2480	-2.18	-48.56	≤ -22.18	PASS
		Low	Hop_2402	-6.06	-48.73	≤ -26.06	PASS
		High	Hop_2480	-3.47	-47.47	≤ -23.47	PASS



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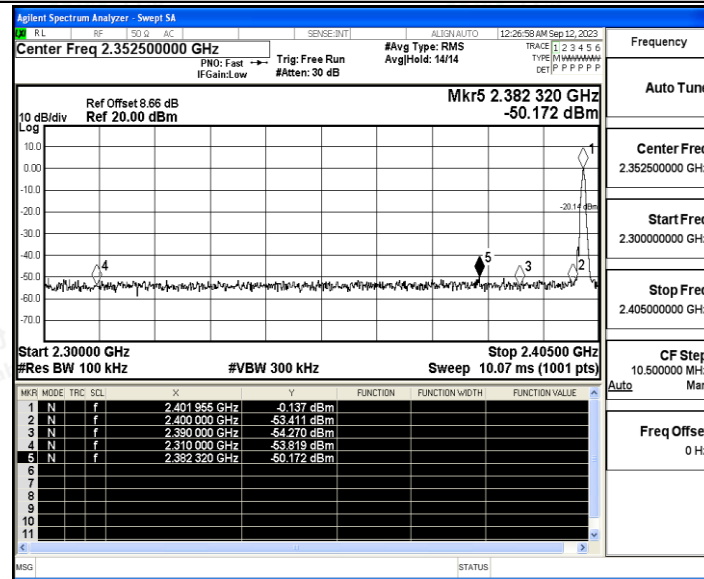
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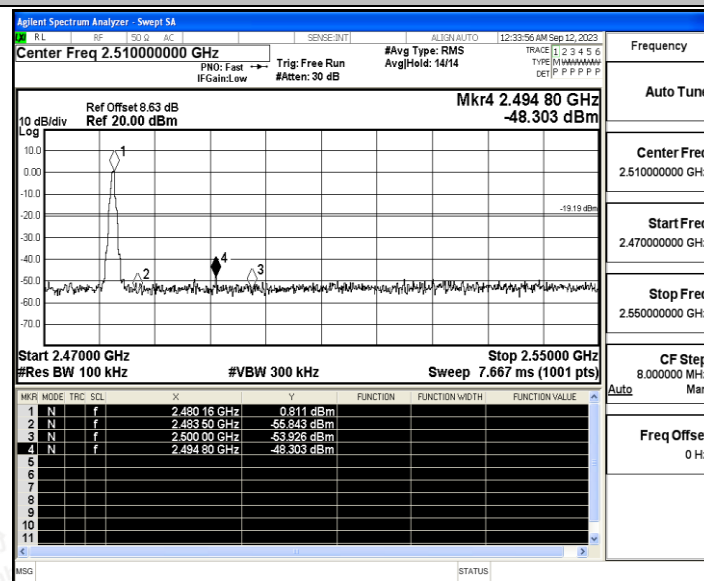


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

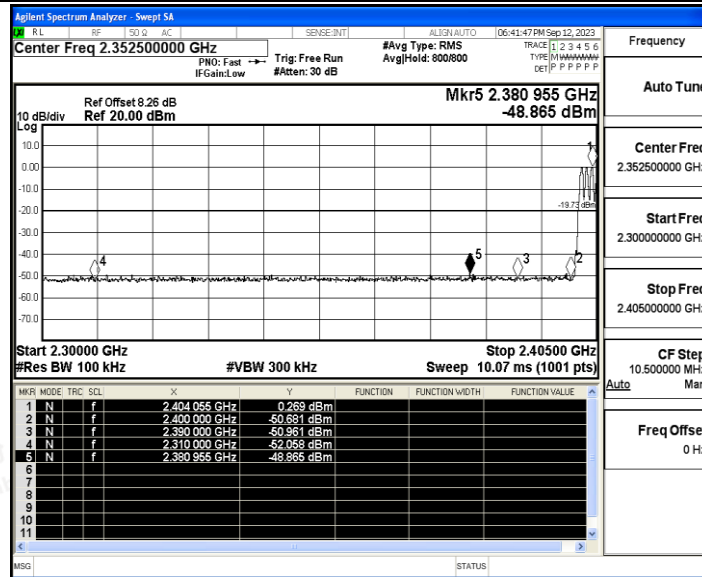


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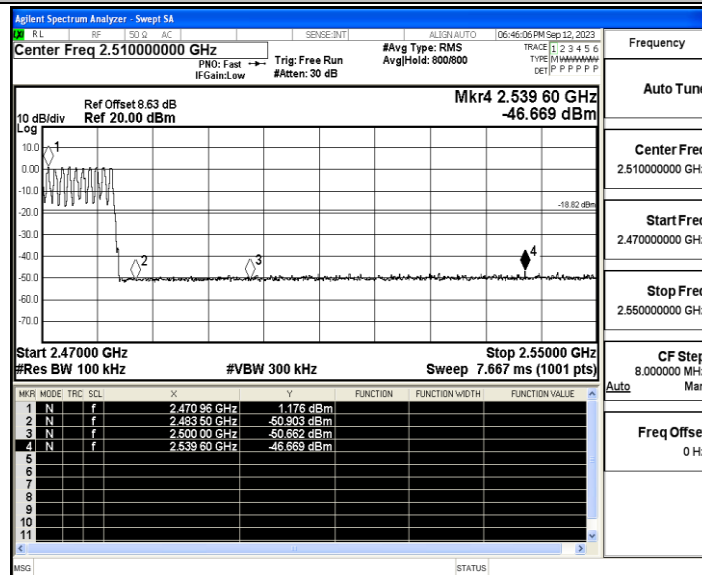
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

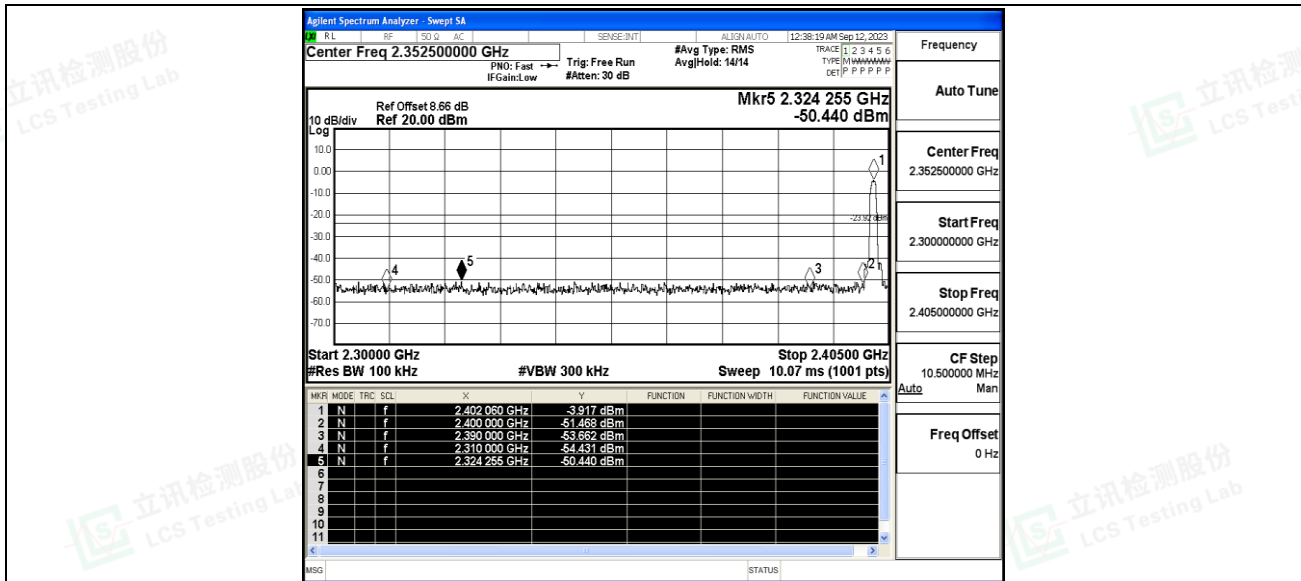


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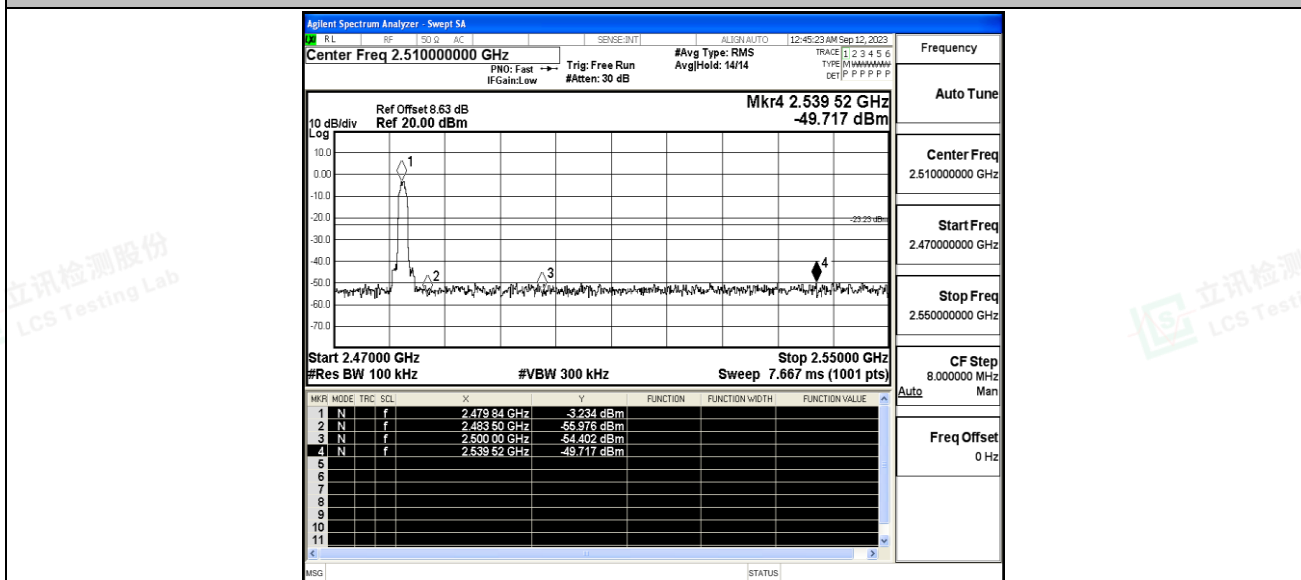
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

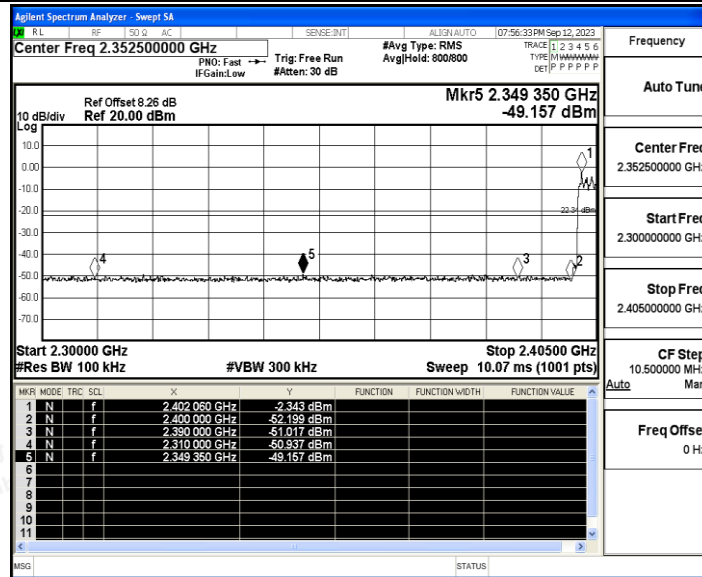


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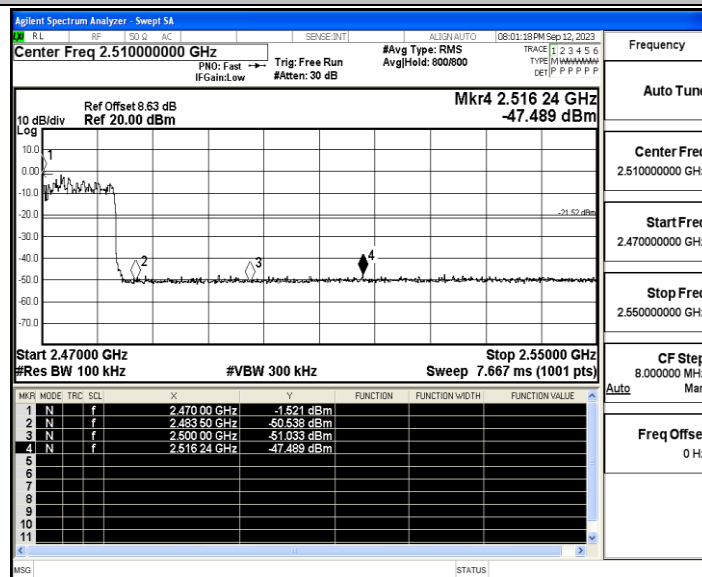
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

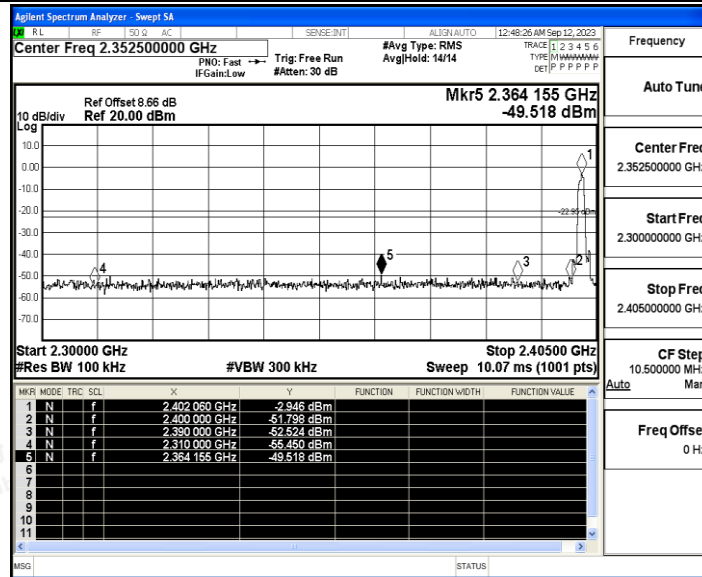


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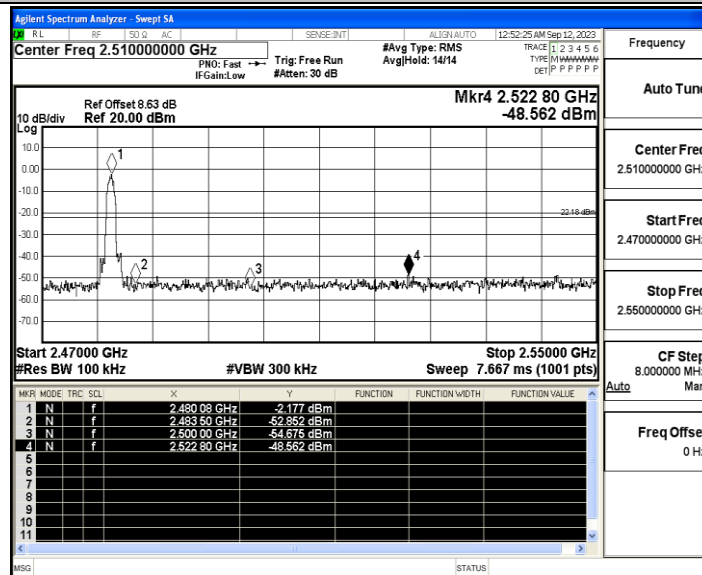
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

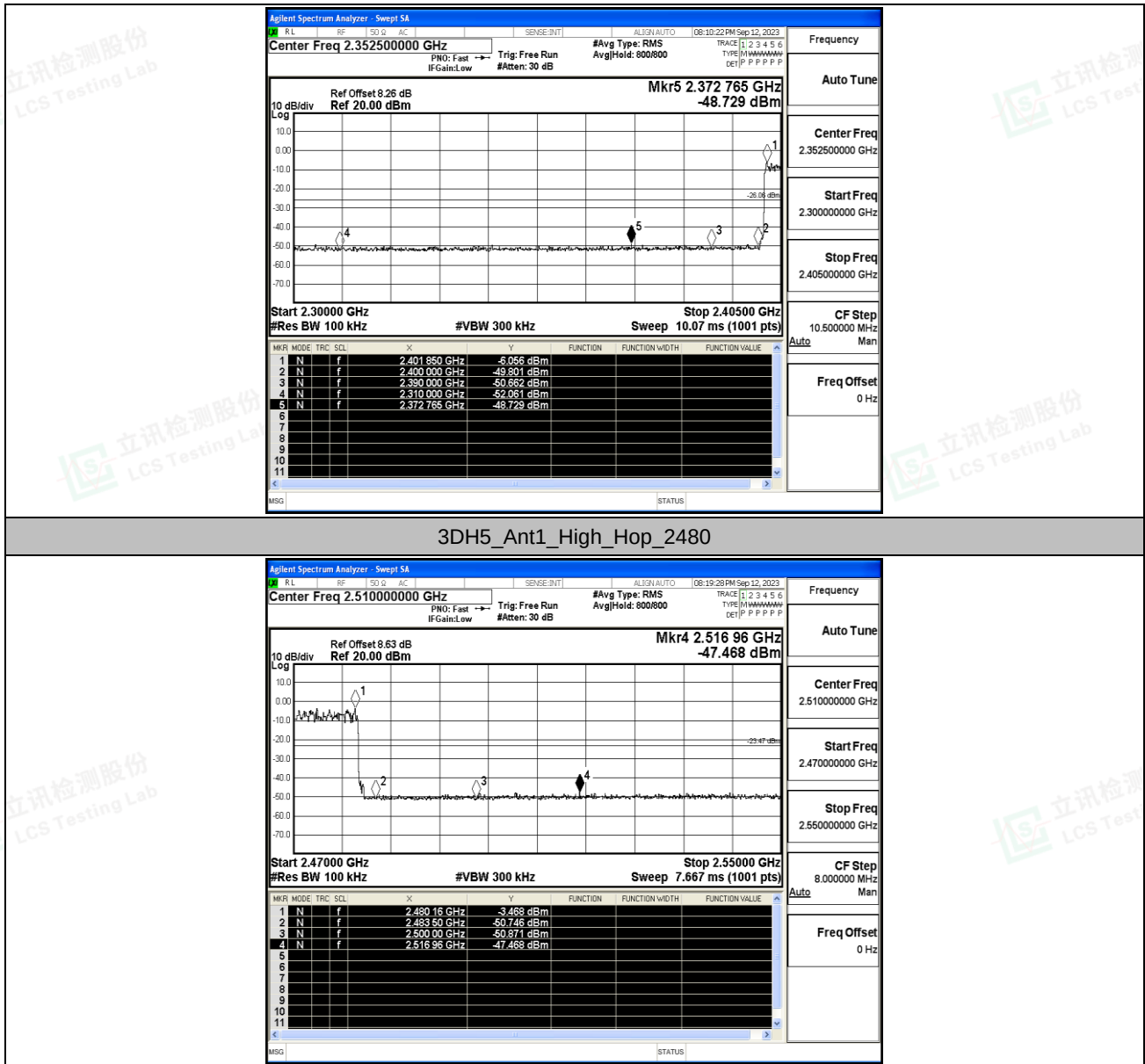


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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.63	0.63	---	PASS
			30~1000	0.63	-60.94	≤-19.37	PASS
			1000~26500	0.63	-46.05	≤-19.37	PASS
		2441	Reference	1.38	1.38	---	PASS
			30~1000	1.38	-61.44	≤-18.62	PASS
			1000~26500	1.38	-46.41	≤-18.62	PASS
		2480	Reference	0.68	0.68	---	PASS
			30~1000	0.68	-61.17	≤-19.32	PASS
			1000~26500	0.68	-46.78	≤-19.32	PASS
2DH5	Ant1	2402	Reference	0.06	0.06	---	PASS
			30~1000	0.06	-61.17	≤-19.94	PASS
			1000~26500	0.06	-46.16	≤-19.94	PASS
		2441	Reference	-1.34	-1.34	---	PASS
			30~1000	-1.34	-60.99	≤-21.34	PASS
			1000~26500	-1.34	-46.79	≤-21.34	PASS
		2480	Reference	-3.07	-3.07	---	PASS
			30~1000	-3.07	-60.92	≤-23.07	PASS
			1000~26500	-3.07	-46.45	≤-23.07	PASS
3DH5	Ant1	2402	Reference	-0.51	-0.51	---	PASS
			30~1000	-0.51	-60.63	≤-20.51	PASS
			1000~26500	-0.51	-46.77	≤-20.51	PASS
		2441	Reference	0.32	0.32	---	PASS
			30~1000	0.32	-60.74	≤-19.68	PASS
			1000~26500	0.32	-46.55	≤-19.68	PASS
		2480	Reference	-0.43	-0.43	---	PASS
			30~1000	-0.43	-60.88	≤-20.43	PASS
			1000~26500	-0.43	-45.63	≤-20.43	PASS



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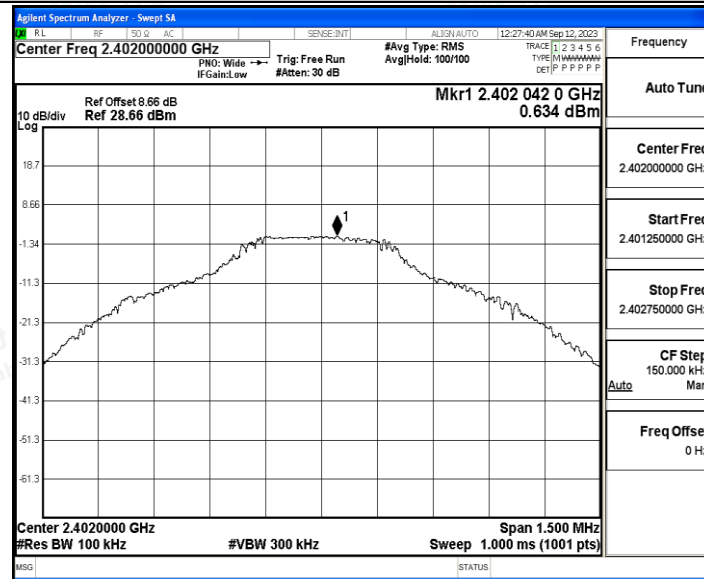
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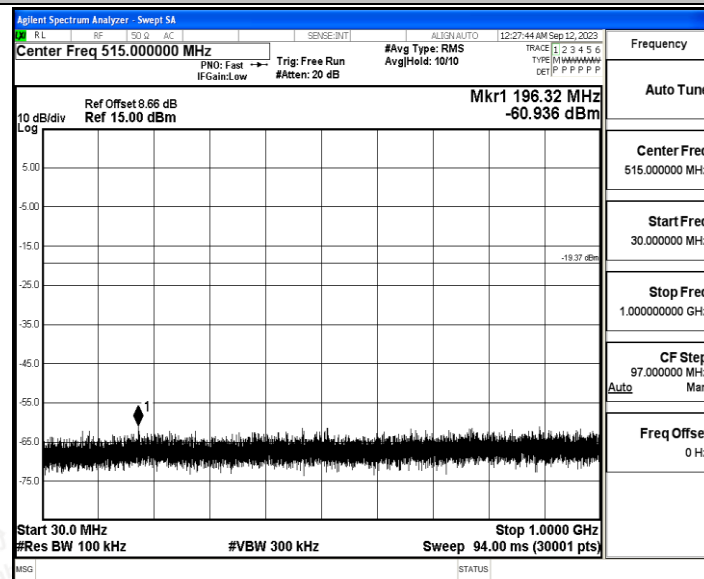


Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

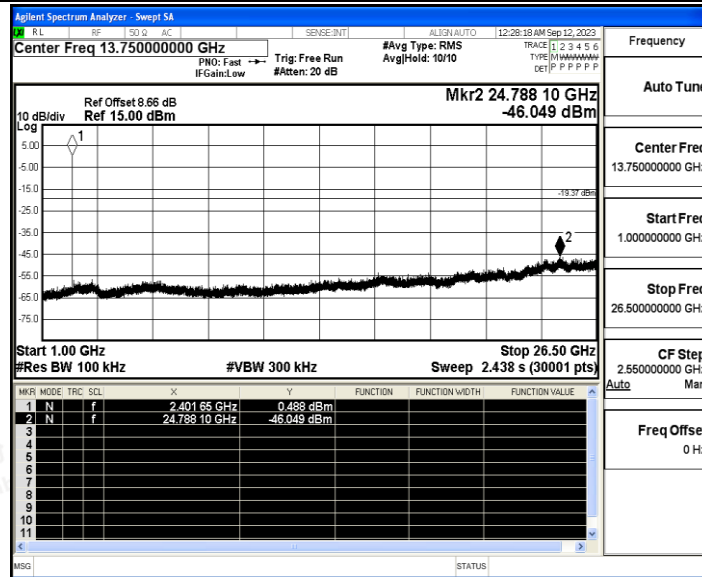


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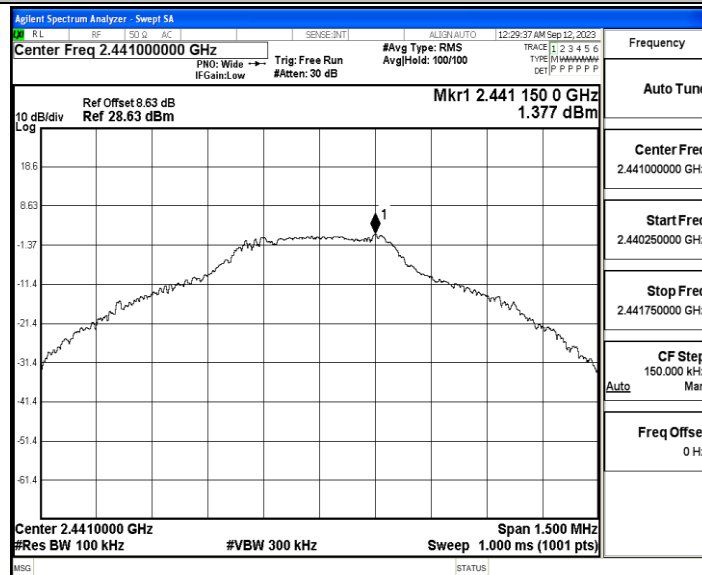
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

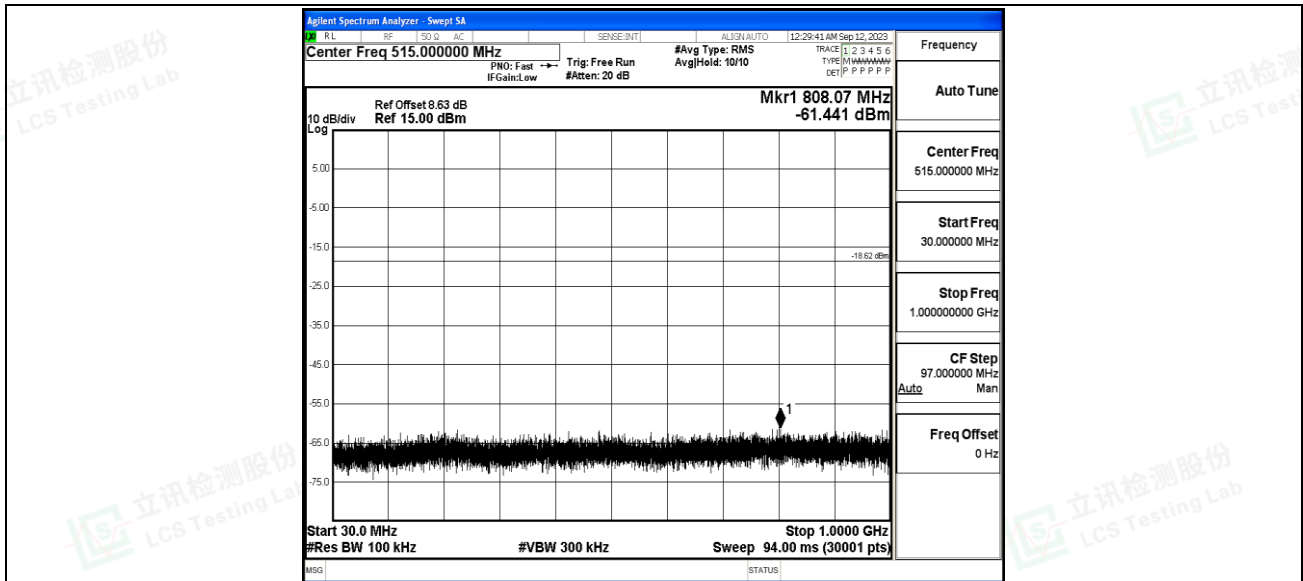


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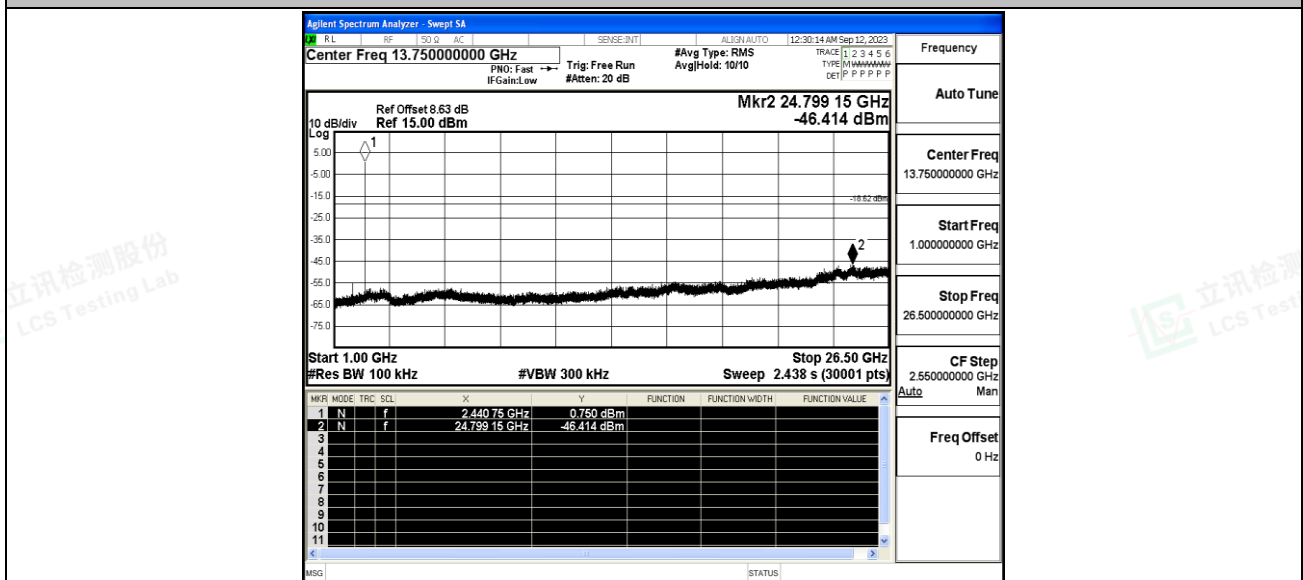
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference

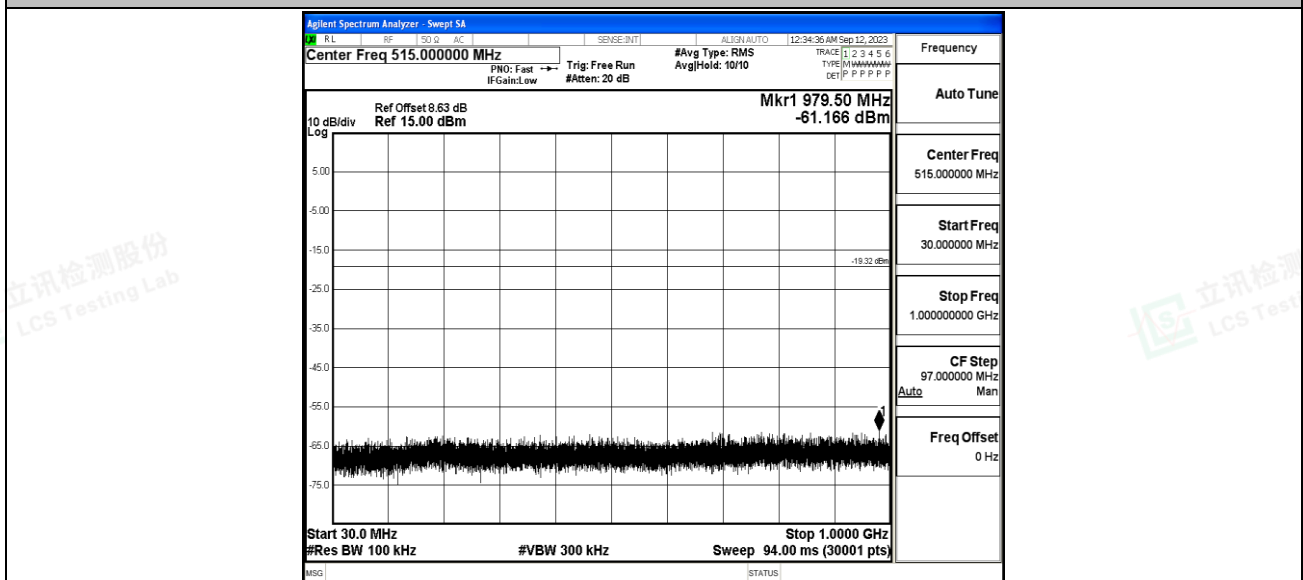
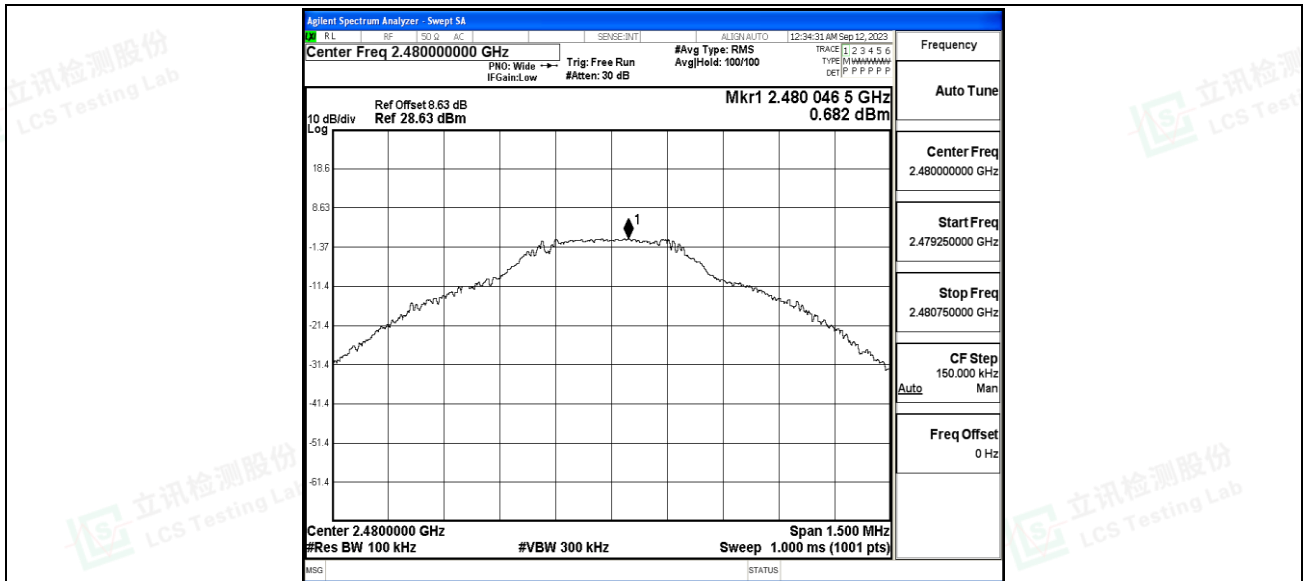


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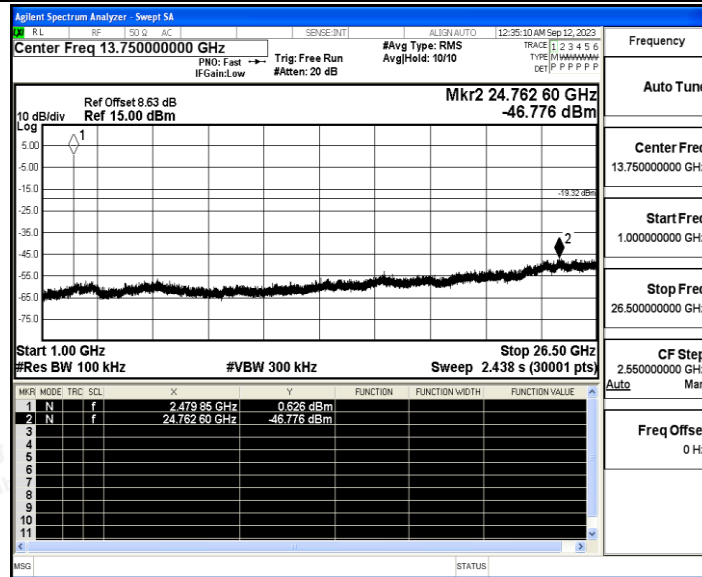


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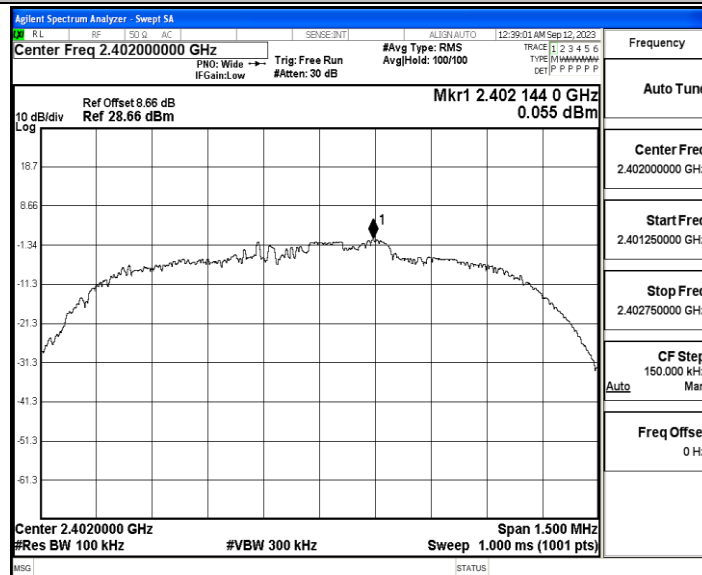
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2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

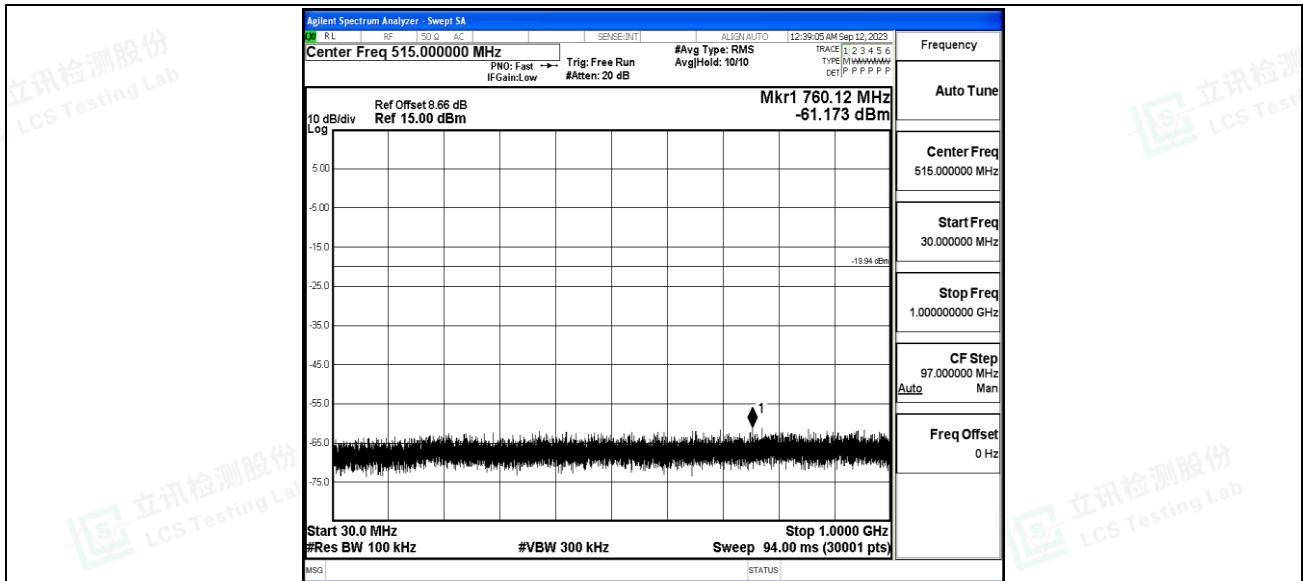


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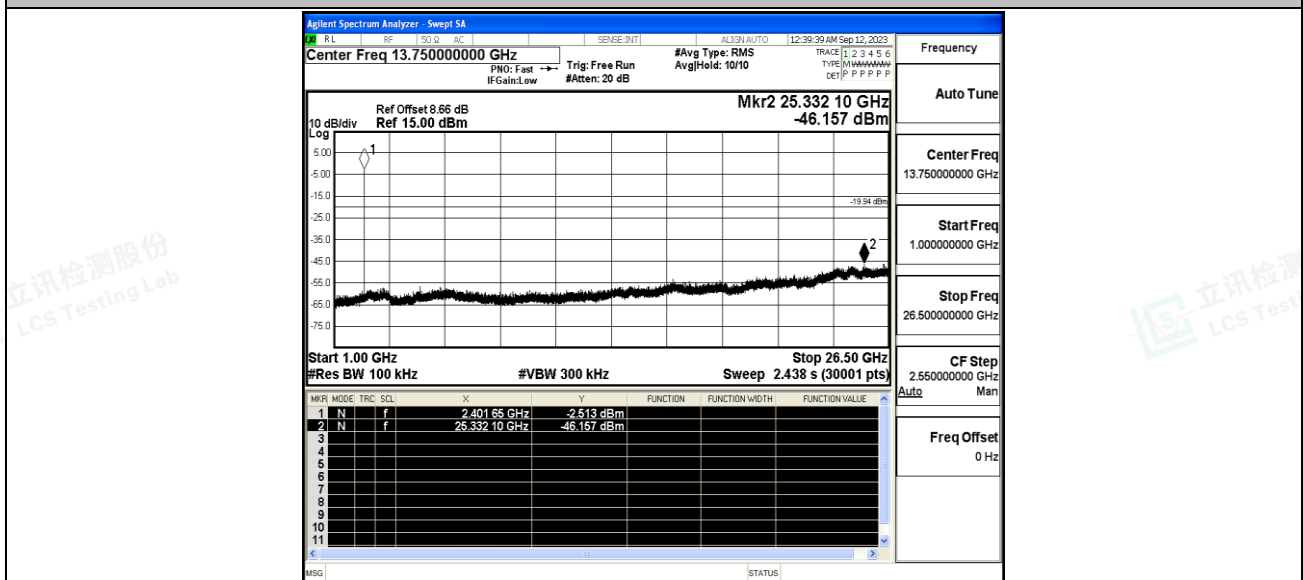
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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference

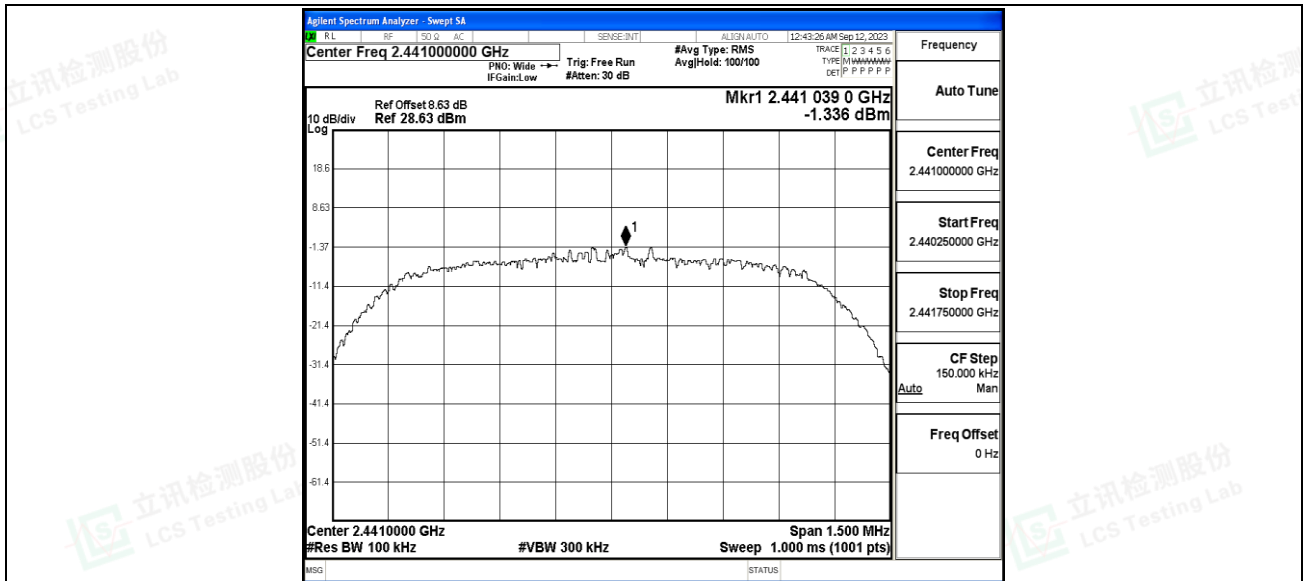


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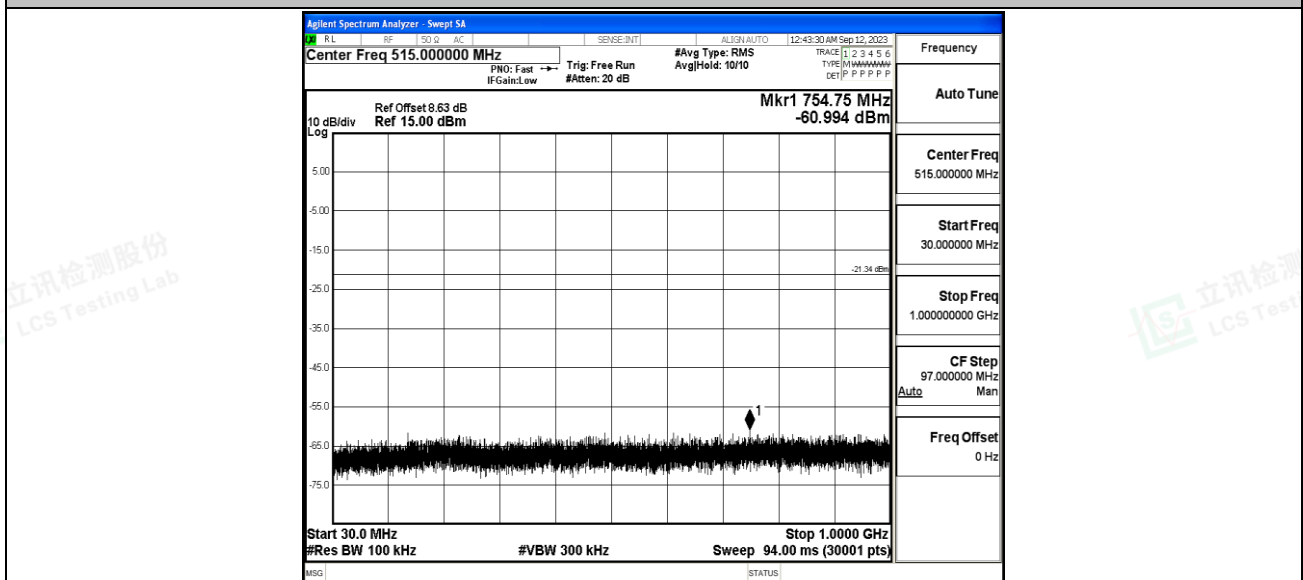
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

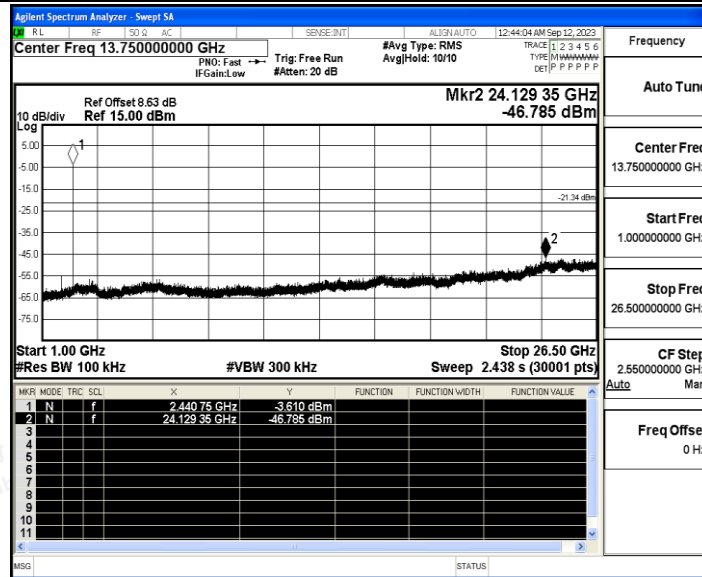


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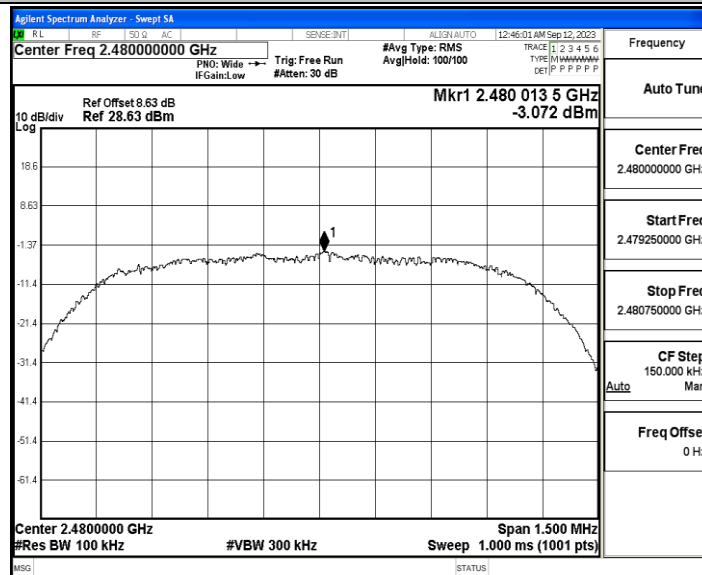
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000

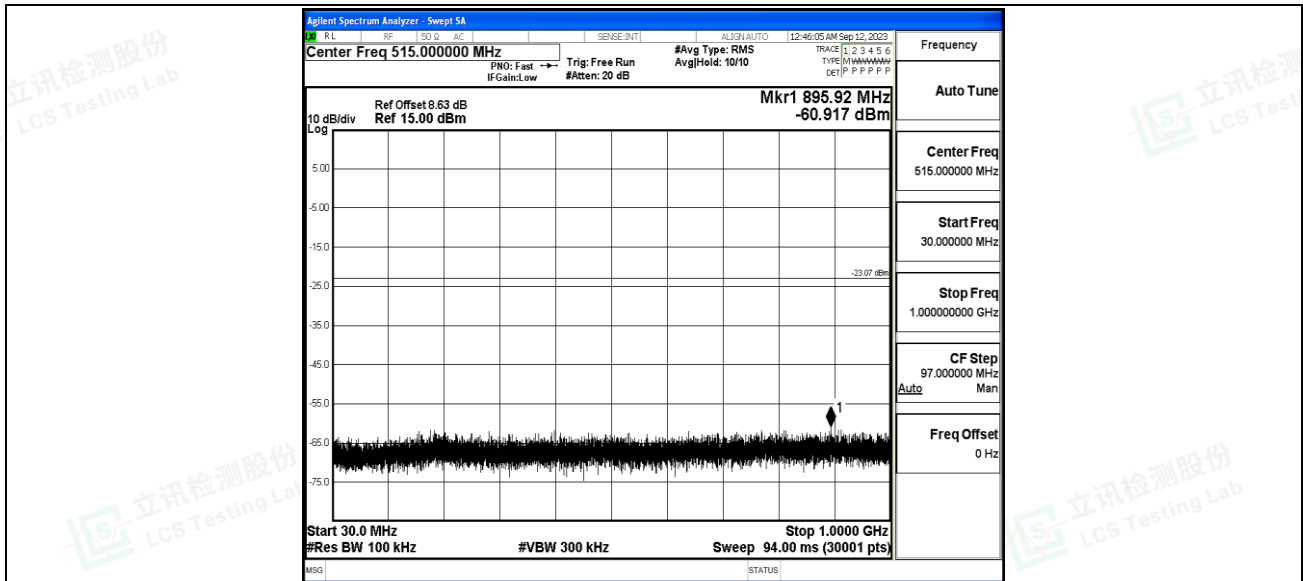


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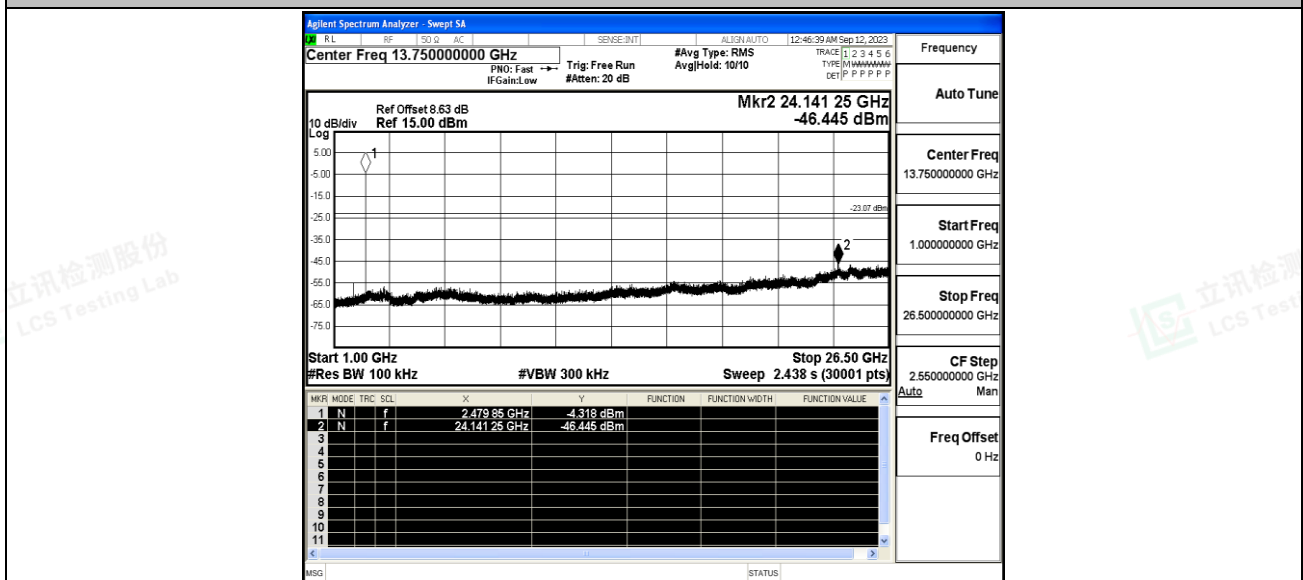
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2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

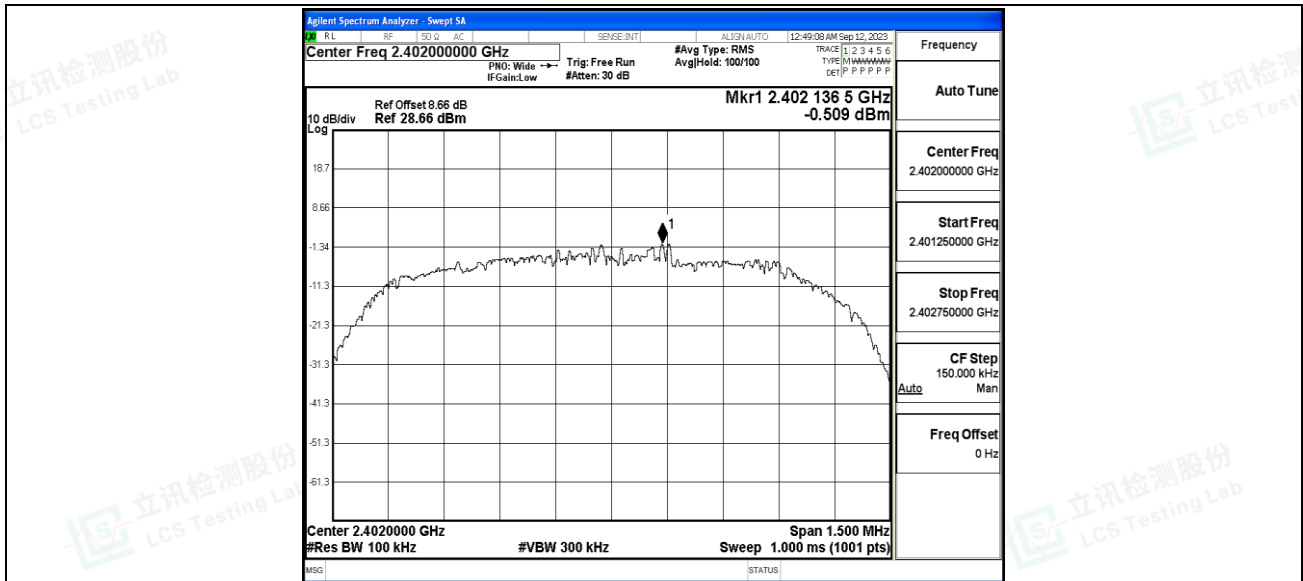


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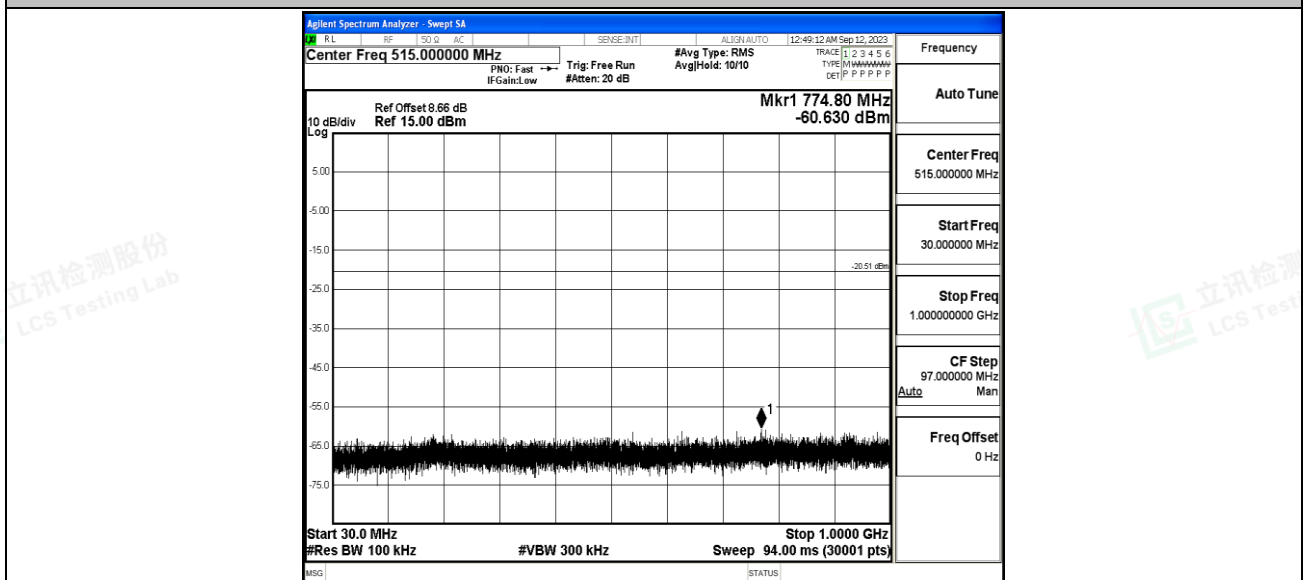
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3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500

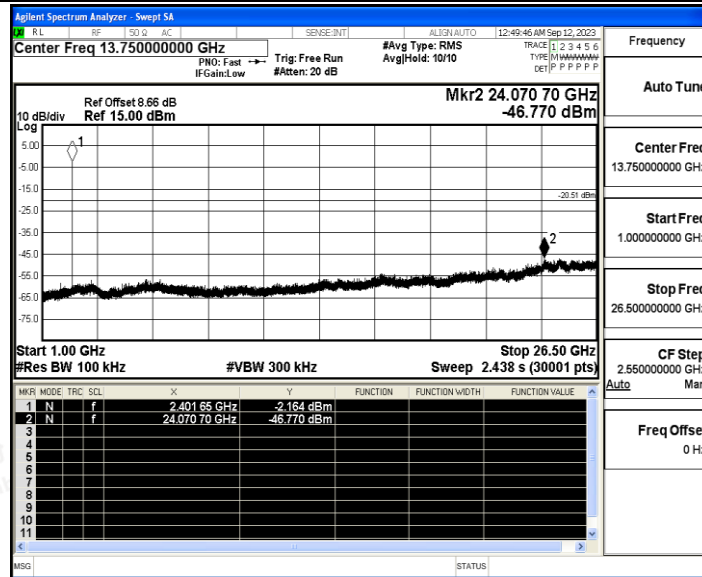


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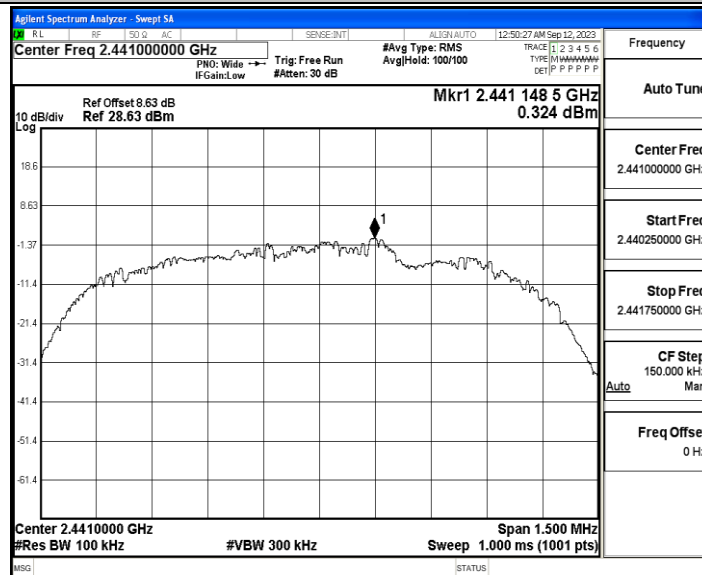
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3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

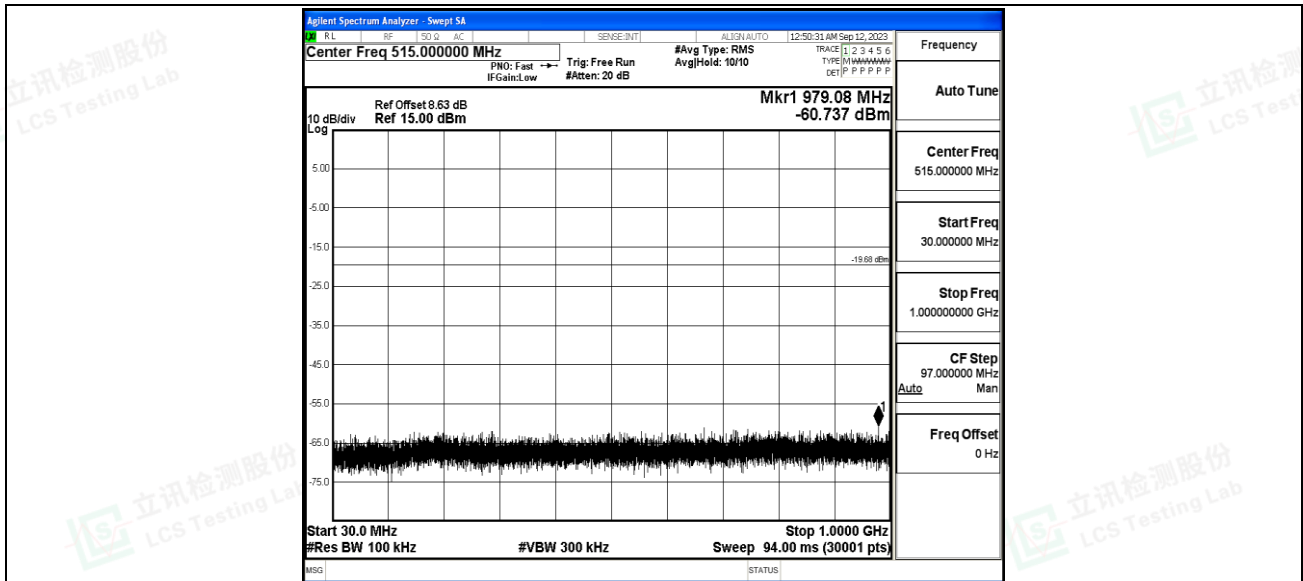


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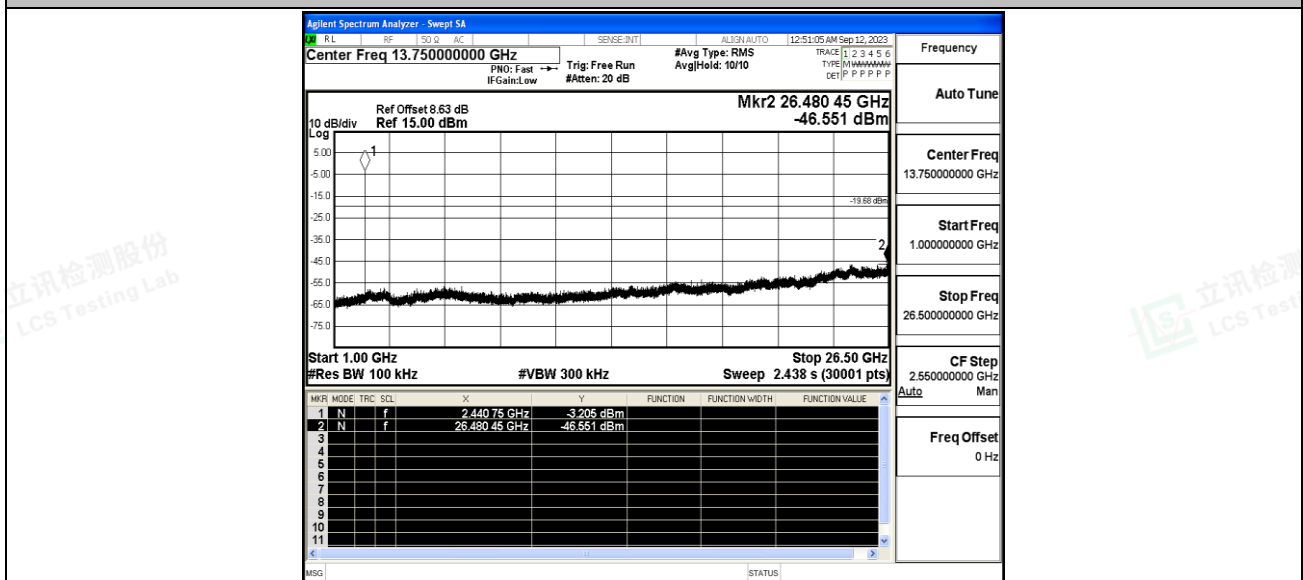
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

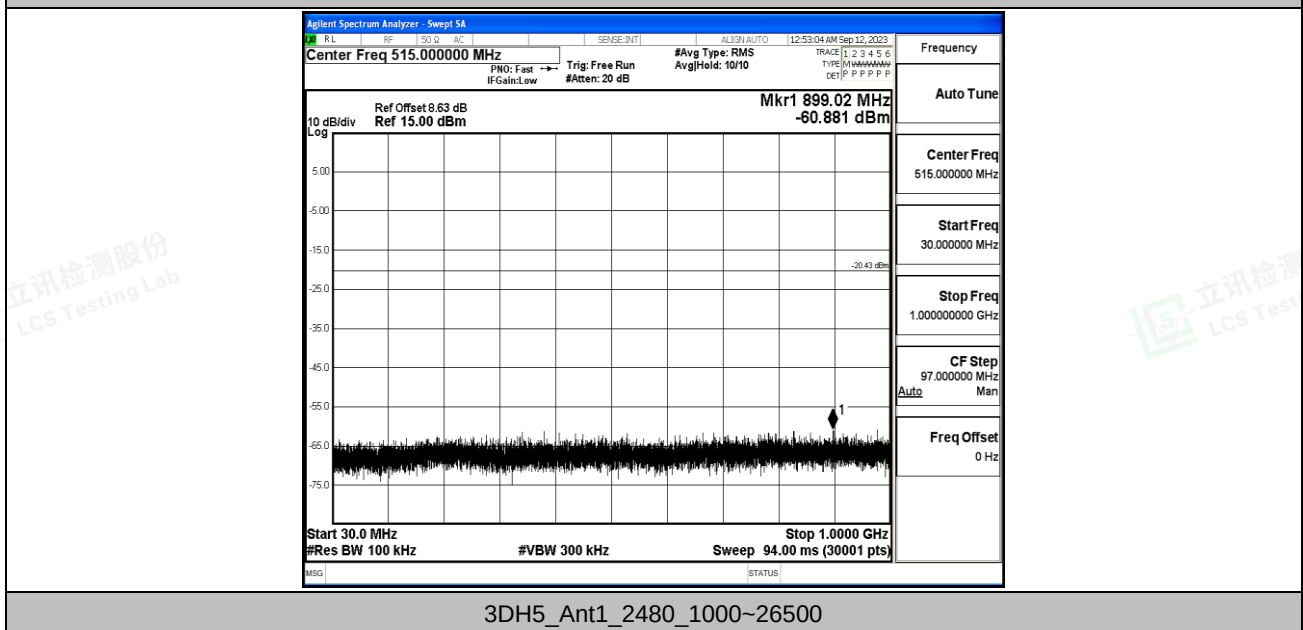
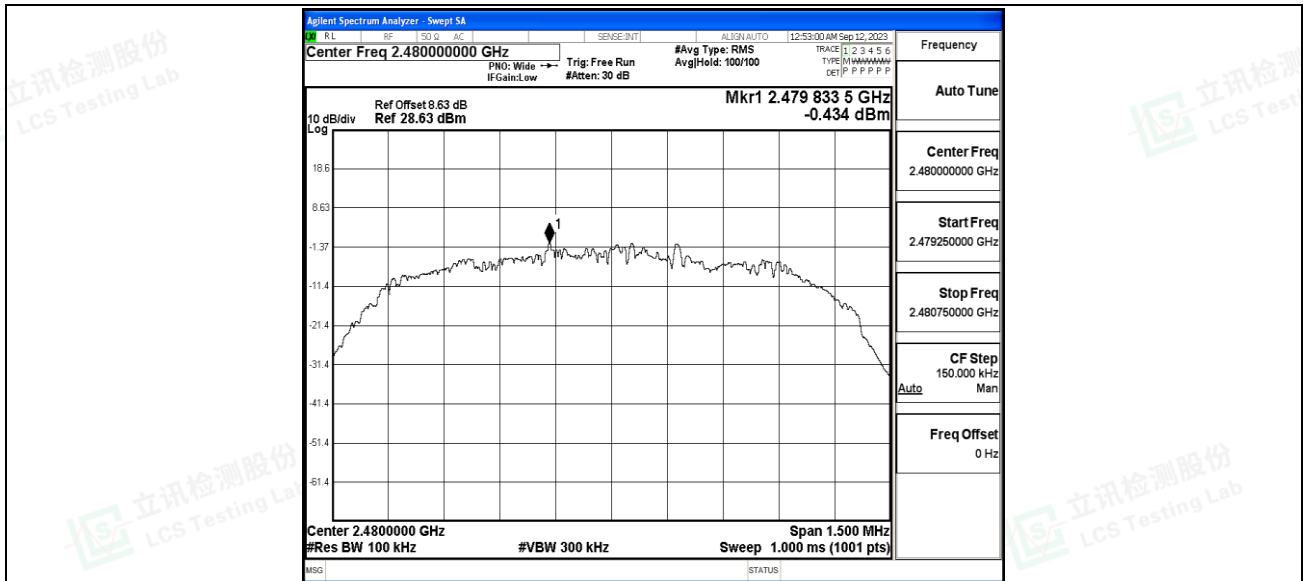


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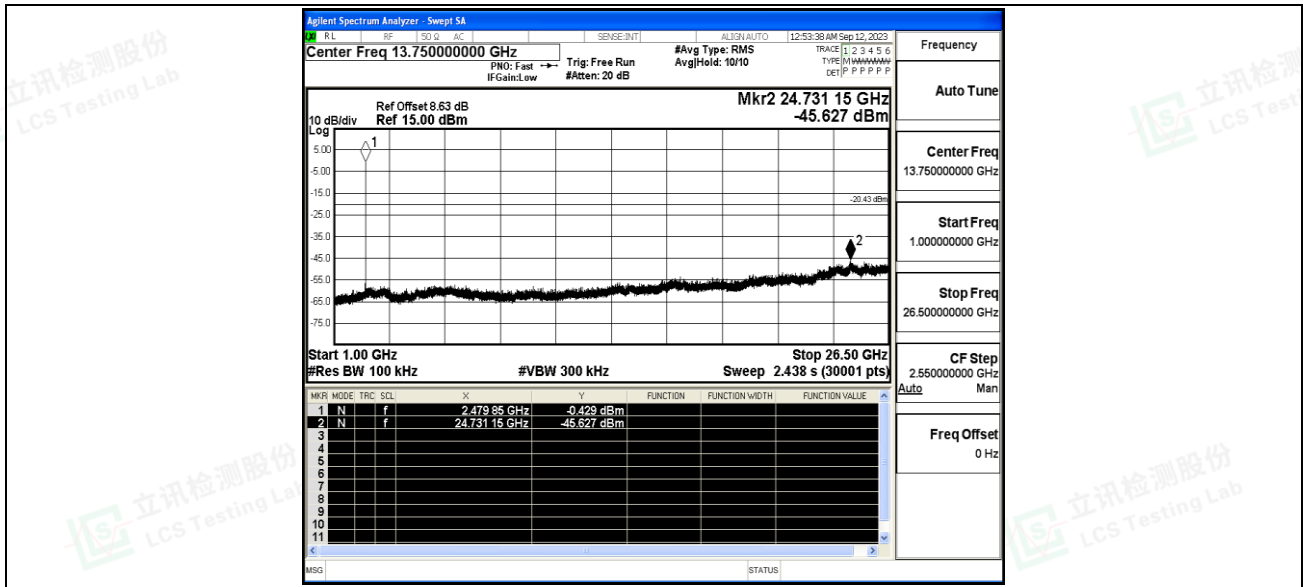


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A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-48.12	≤-41.20	47.08	≤54	PASS
				AV	2387.150	-47.57	≤-41.20	47.63	≤54	PASS
				AV	2390.000	-47.7	≤-41.20	47.50	≤54	PASS
				Peak	2310.000	-42.16	≤-21.20	53.04	≤74	PASS
				Peak	2355.545	-38.31	≤-21.20	56.89	≤74	PASS
				Peak	2390.000	-41.88	≤-21.20	53.32	≤74	PASS
		High	2480	AV	2483.500	-47.19	≤-41.20	48.01	≤54	PASS
				AV	2498.880	-47.1	≤-41.20	48.10	≤54	PASS
				AV	2500.000	-47.22	≤-41.20	47.98	≤54	PASS
				Peak	2483.500	-43.26	≤-21.20	51.94	≤74	PASS
				Peak	2485.200	-38.79	≤-21.20	56.41	≤74	PASS
				Peak	2500.000	-44.28	≤-21.20	50.92	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.04	≤-21.20	55.16	≤74	PASS
				Peak	2372.450	-37.81	≤-21.20	57.39	≤74	PASS
				Peak	2390.000	-39.69	≤-21.20	55.51	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-40.51	≤-21.20	54.69	≤74	PASS
				Peak	2497.440	-36.26	≤-21.20	58.94	≤74	PASS
				Peak	2500.000	-38.87	≤-21.20	56.33	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.2	≤-41.20	47.00	≤54	PASS
				AV	2387.780	-47.61	≤-41.20	47.59	≤54	PASS
				AV	2390.000	-47.84	≤-41.20	47.36	≤54	PASS
				Peak	2310.000	-40.35	≤-21.20	54.85	≤74	PASS
				Peak	2370.350	-38.91	≤-21.20	56.29	≤74	PASS
				Peak	2390.000	-41.61	≤-21.20	53.59	≤74	PASS
		High	2480	AV	2483.500	-47.06	≤-41.20	48.14	≤54	PASS
				AV	2483.520	-47.06	≤-41.20	48.14	≤54	PASS
				AV	2500.000	-47.23	≤-41.20	47.97	≤54	PASS
				Peak	2483.500	-40.44	≤-21.20	54.76	≤74	PASS
				Peak	2483.840	-38.72	≤-21.20	56.48	≤74	PASS
				Peak	2500.000	-42.82	≤-21.20	52.38	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-39.73	≤-21.20	55.47	≤74	PASS
				Peak	2377.175	-37.91	≤-21.20	57.29	≤74	PASS
				Peak	2390.000	-40.05	≤-21.20	55.15	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-39.92	≤-21.20	55.28	≤74	PASS
				Peak	2494.400	-37.13	≤-21.20	58.07	≤74	PASS
				Peak	2500.000	-39.07	≤-21.20	56.13	≤74	PASS



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3DH5	Ant1	Low	2402	AV	2310.000	-48.18	≤ -41.20	47.02	≤ 54	PASS
				AV	2387.255	-47.6	≤ -41.20	47.60	≤ 54	PASS
				AV	2390.000	-47.84	≤ -41.20	47.36	≤ 54	PASS
				Peak	2310.000	-43.28	≤ -21.20	51.92	≤ 74	PASS
				Peak	2384.525	-38.75	≤ -21.20	56.45	≤ 74	PASS
				Peak	2390.000	-43.95	≤ -21.20	51.25	≤ 74	PASS
		High	2480	AV	2483.500	-47.14	≤ -41.20	48.06	≤ 54	PASS
				AV	2499.600	-47.05	≤ -41.20	48.15	≤ 54	PASS
				AV	2500.000	-47.28	≤ -41.20	47.92	≤ 54	PASS
				Peak	2483.500	-42.23	≤ -21.20	52.97	≤ 74	PASS
				Peak	2489.840	-38.24	≤ -21.20	56.96	≤ 74	PASS
				Peak	2500.000	-39.62	≤ -21.20	55.58	≤ 74	PASS
		Low	Hop_24 02	Peak	2310.000	-39.72	≤ -21.20	55.48	≤ 74	PASS
				Peak	2379.065	-36.91	≤ -21.20	58.29	≤ 74	PASS
				Peak	2390.000	-40.07	≤ -21.20	55.13	≤ 74	PASS
		High	Hop_24 80	Peak	2483.500	-39.43	≤ -21.20	55.77	≤ 74	PASS
				Peak	2496.560	-37.21	≤ -21.20	57.99	≤ 74	PASS
				Peak	2500.000	-39.38	≤ -21.20	55.82	≤ 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.



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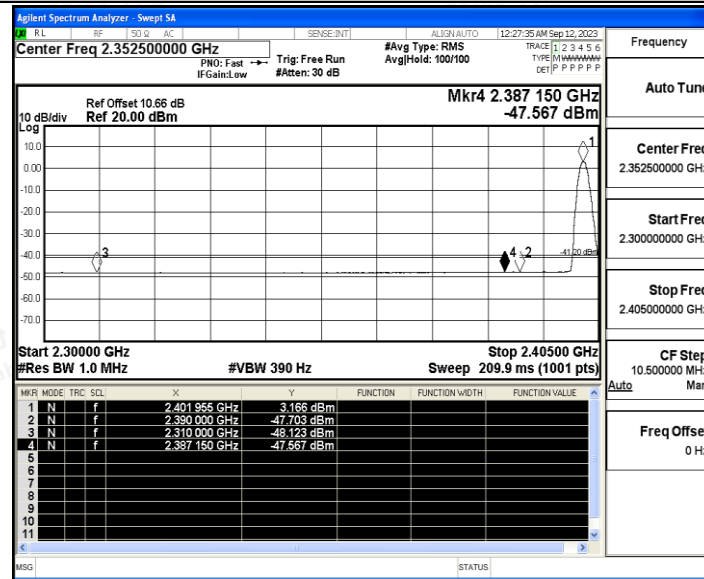
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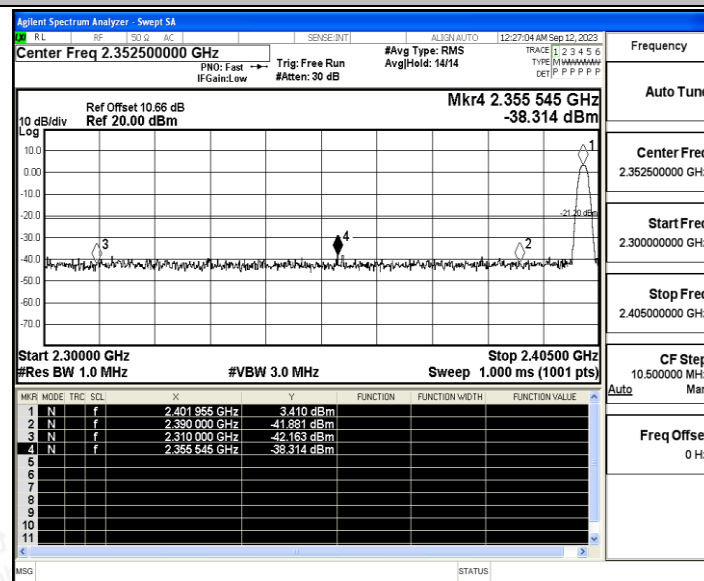


Test Graphs

DH5_Ant1_Low_2402_AV



DH5_Ant1_Low_2402_Peak



DH5_Ant1_High_2480_AV

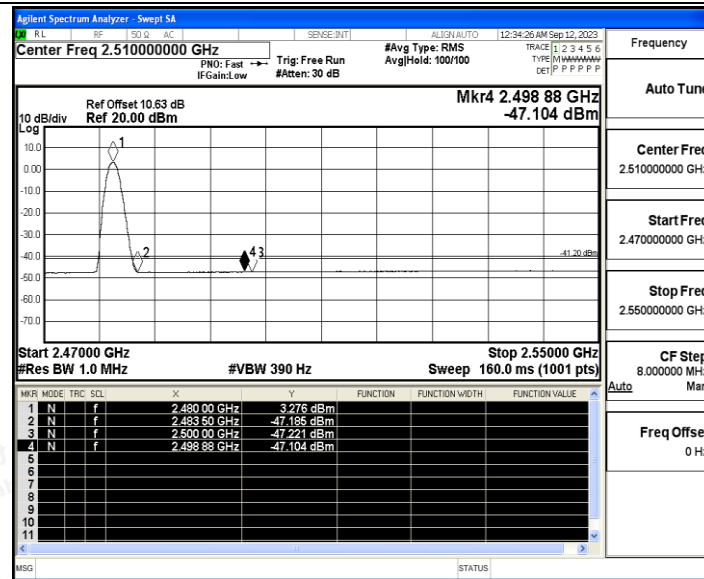


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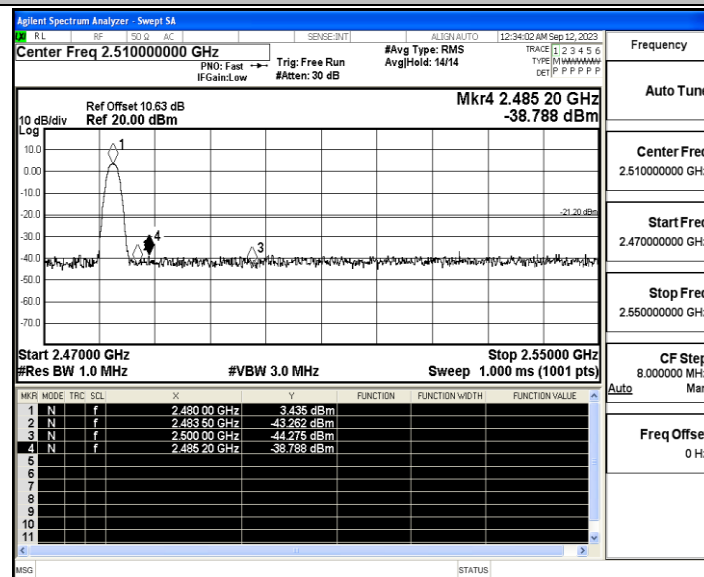
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DH5_Ant1_High_2480_Peak



DH5_Ant1_Low_Hop_2402_Peak

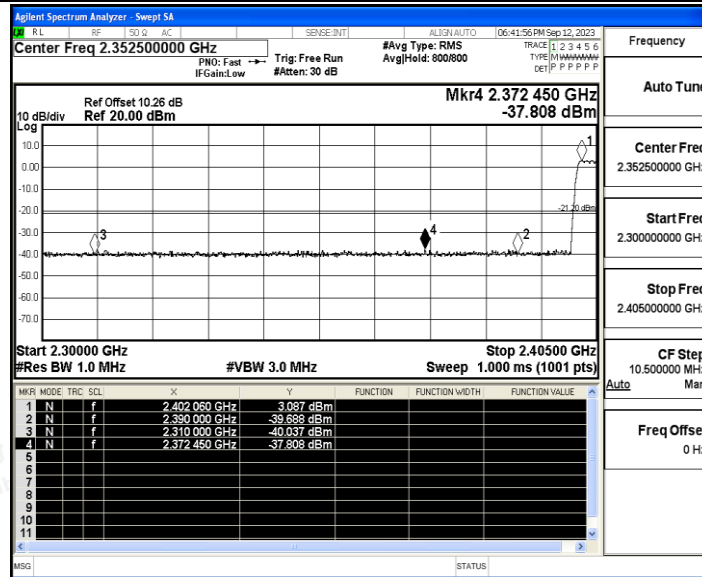


Shenzhen LCS Compliance Testing Laboratory Ltd.

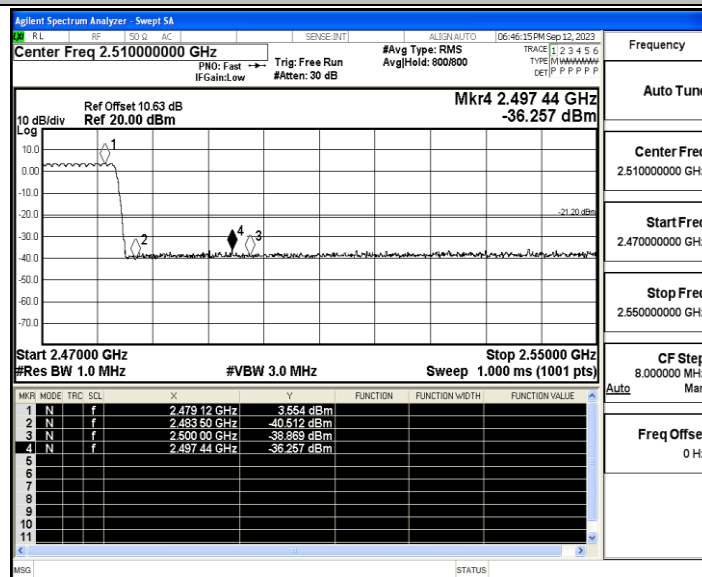
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DH5_Ant1_High_Hop_2480_Peak



2DH5_Ant1_Low_2402_AV

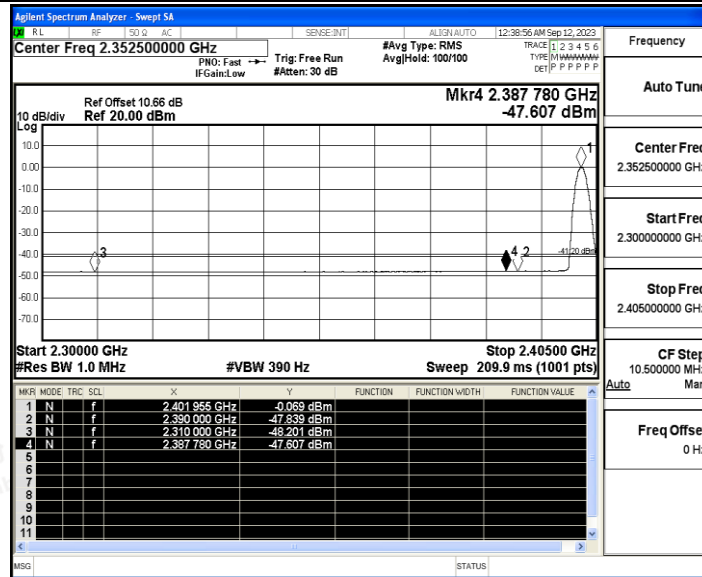


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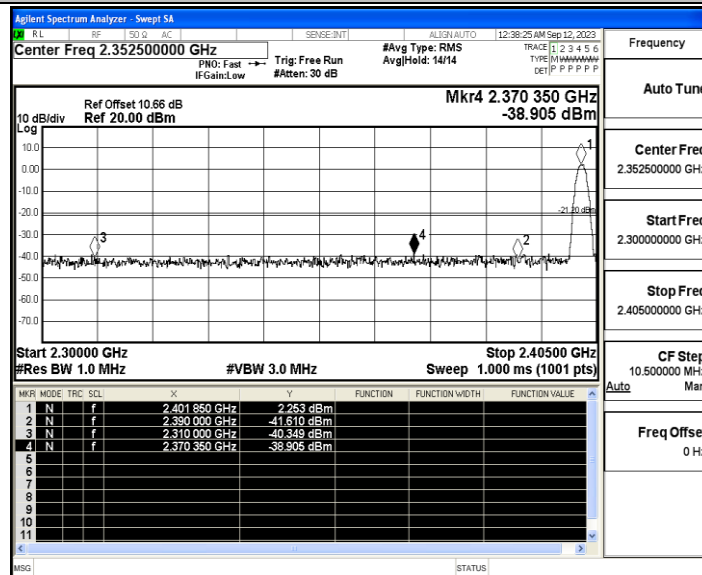
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2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

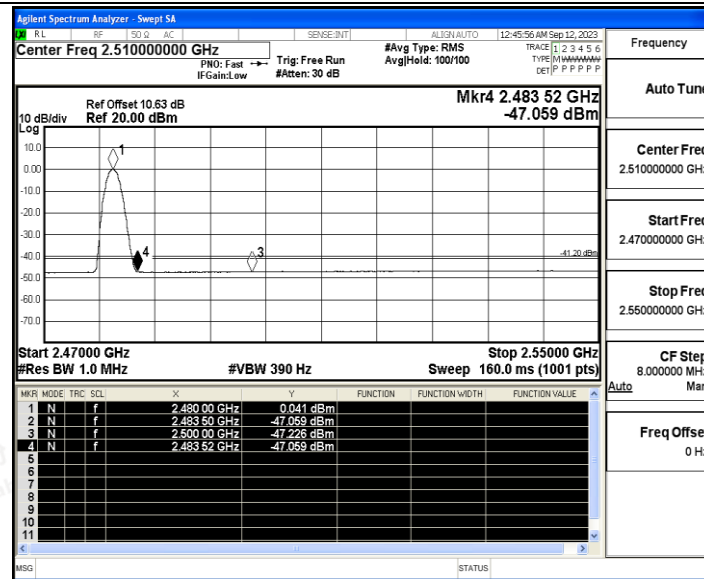


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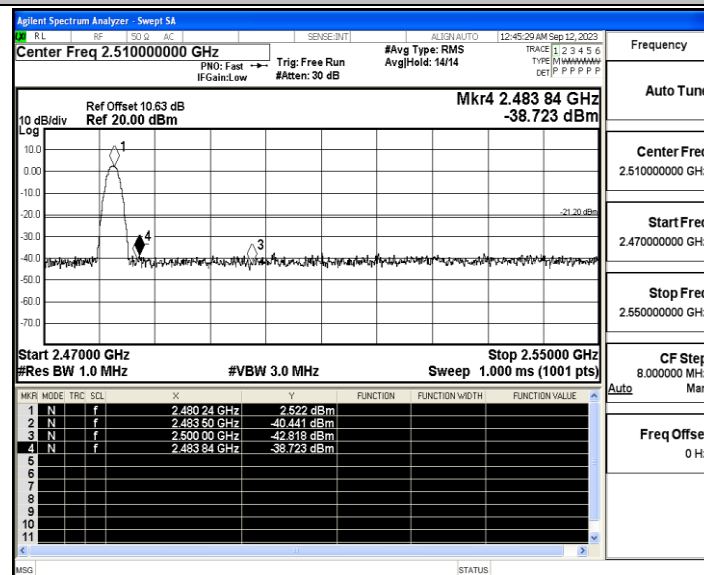
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2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak

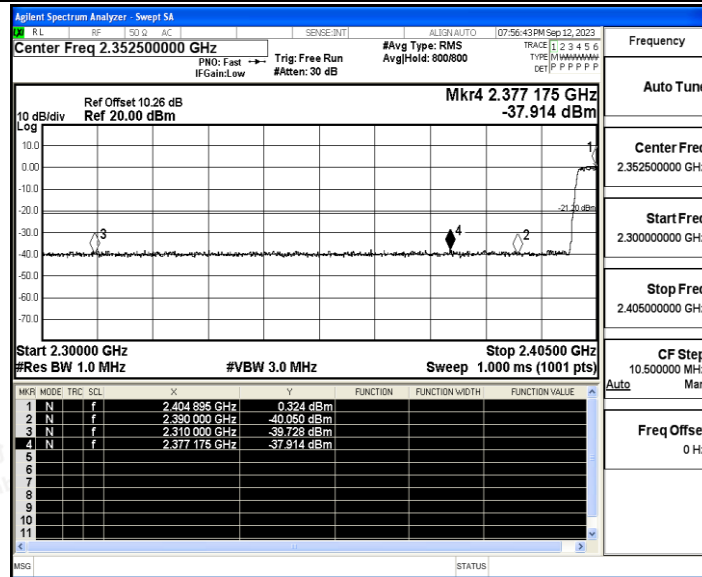


Shenzhen LCS Compliance Testing Laboratory Ltd.

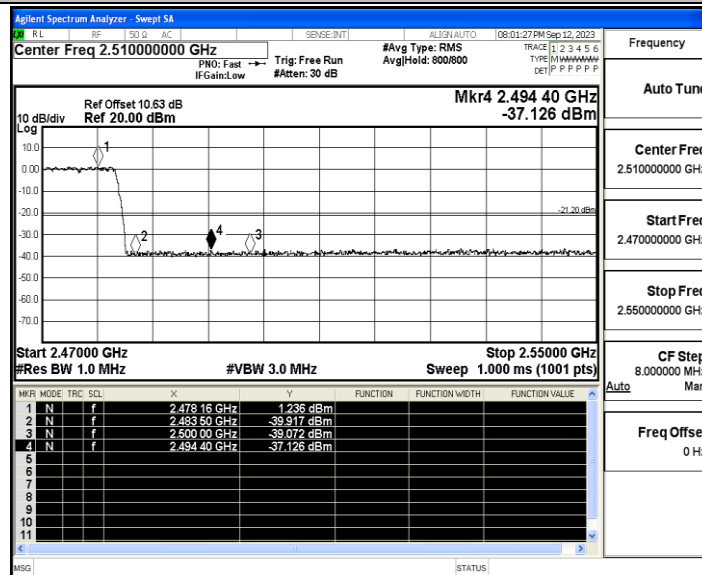
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2DH5_Ant1_High_Hop_2480_Peak



3DH5_Ant1_Low_2402_AV

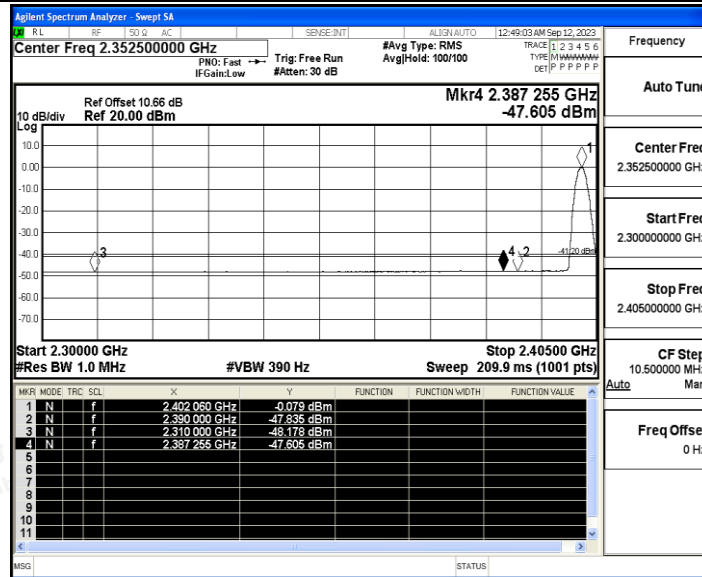


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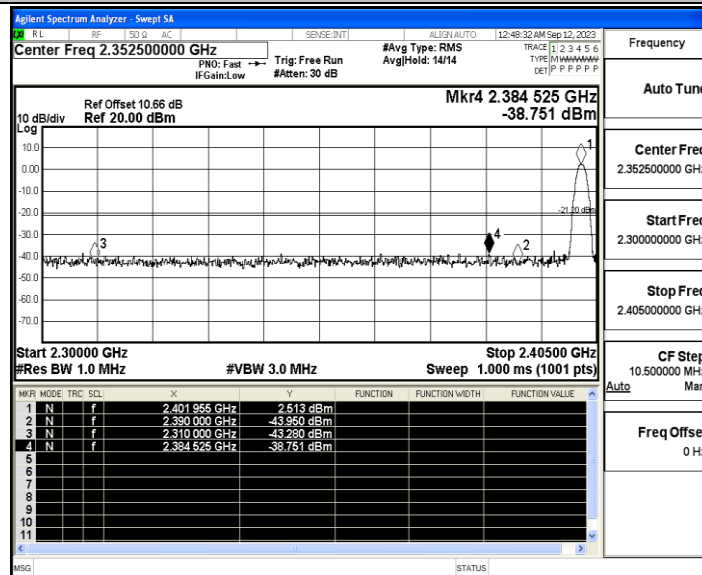
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV

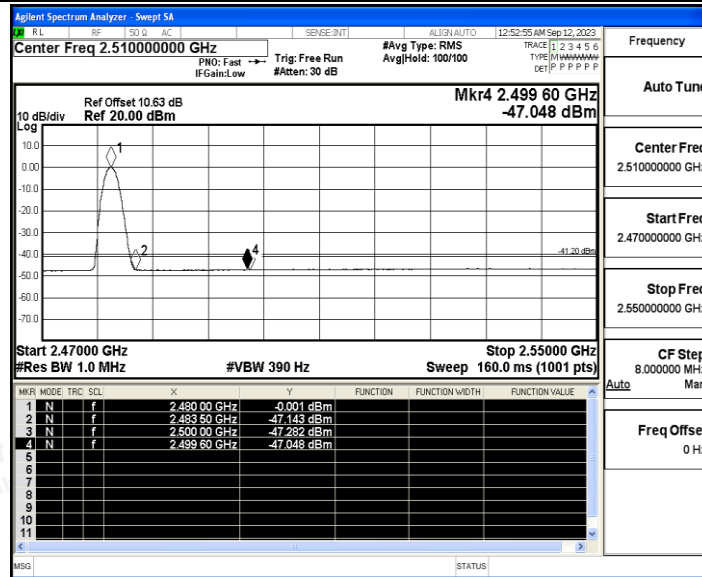


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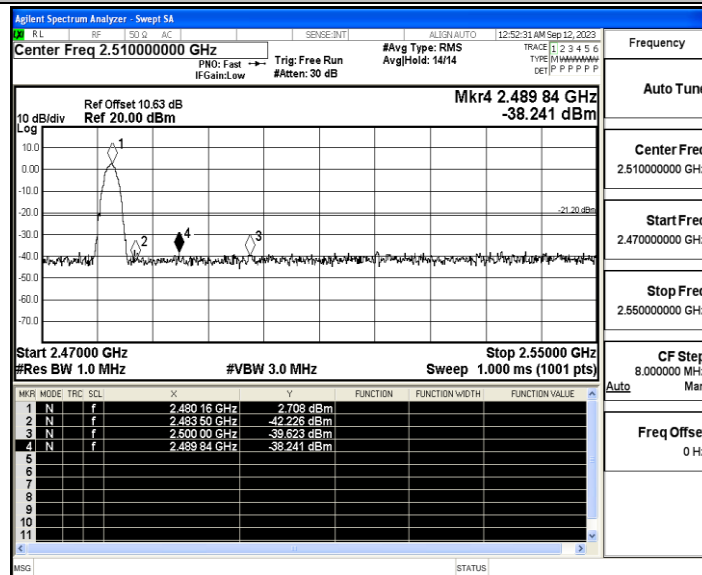
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3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak

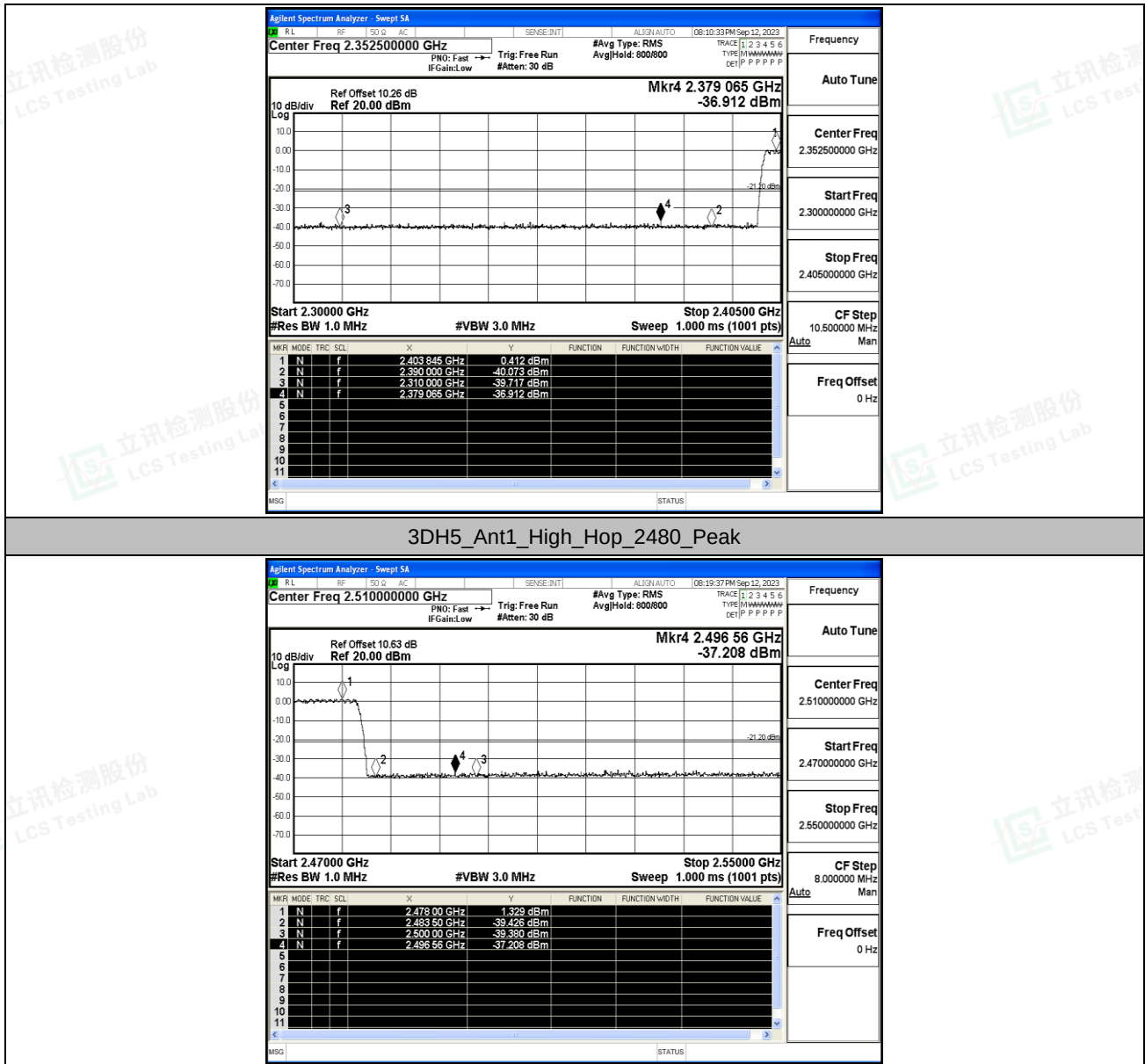


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