



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Stents Speaker

Test Model: AJ221

Environmental Conditions

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



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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	2401.499	2402.495	---
		2441	0.966	2440.520	2441.486	---
		2480	0.963	2479.523	2480.486	---
2DH5	Ant1	2402	1.317	2401.328	2402.645	---
		2441	1.293	2440.352	2441.645	---
		2480	1.329	2479.322	2480.651	---
3DH5	Ant1	2402	1.314	2401.334	2402.648	---
		2441	1.311	2440.334	2441.645	---
		2480	1.296	2479.334	2480.630	---



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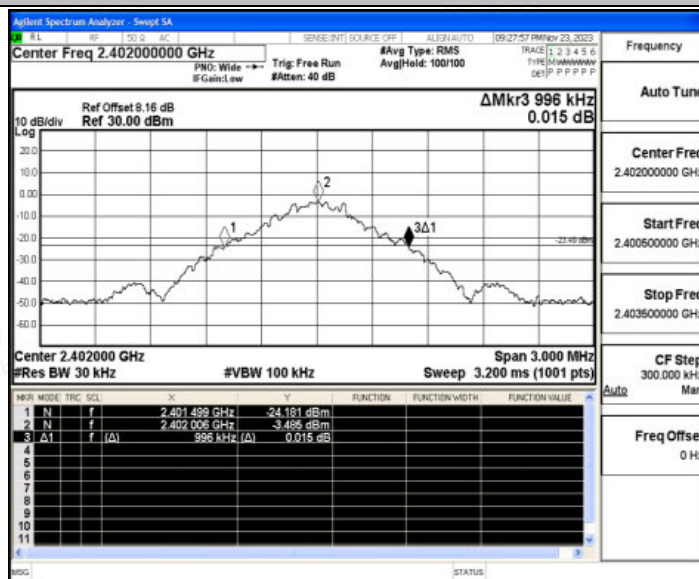
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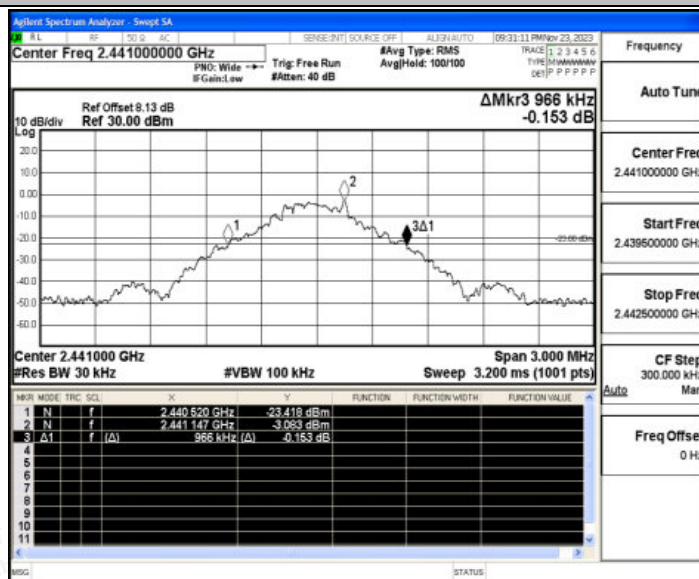


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

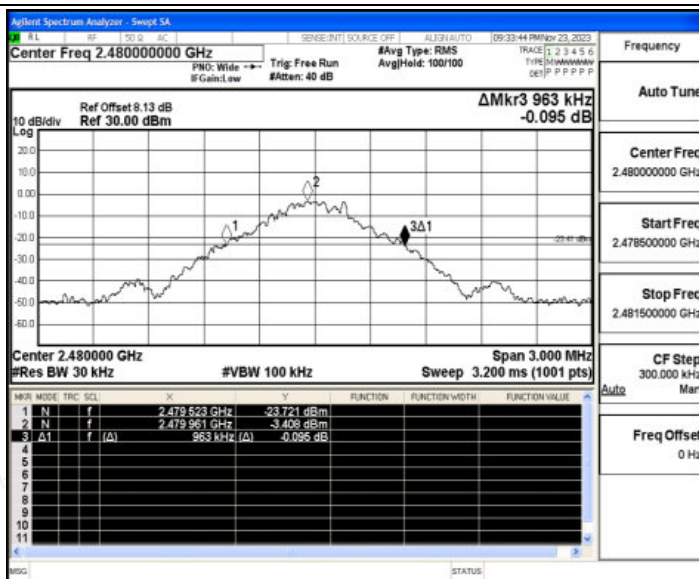


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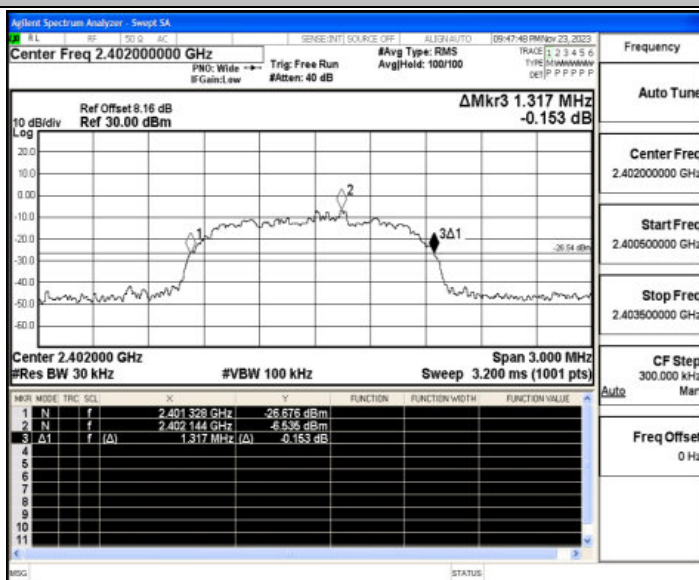
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2DH5_Ant1_2402



2DH5_Ant1_2441

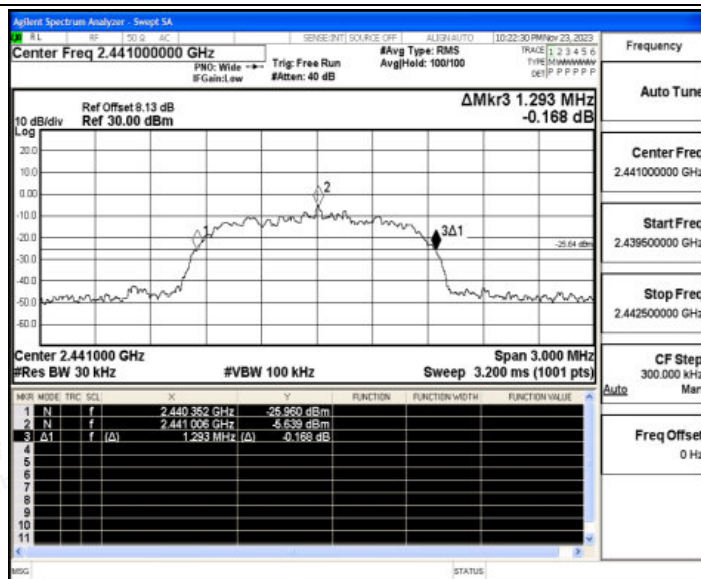


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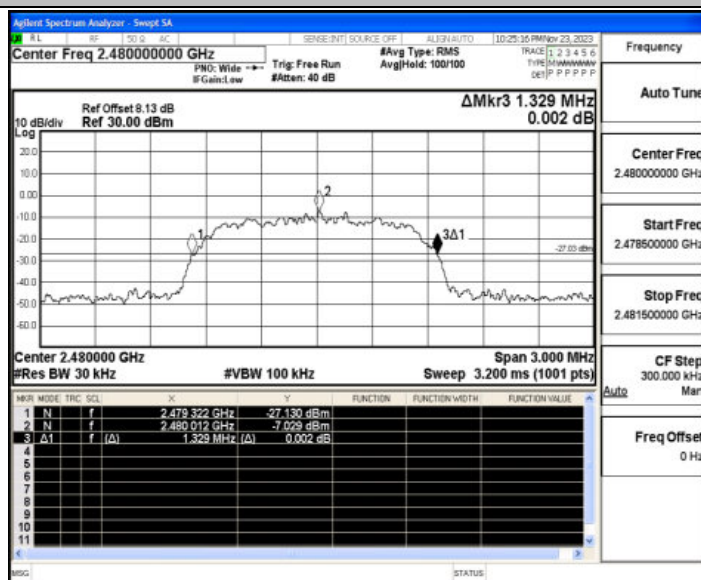
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2DH5_Ant1_2480



3DH5_Ant1_2402

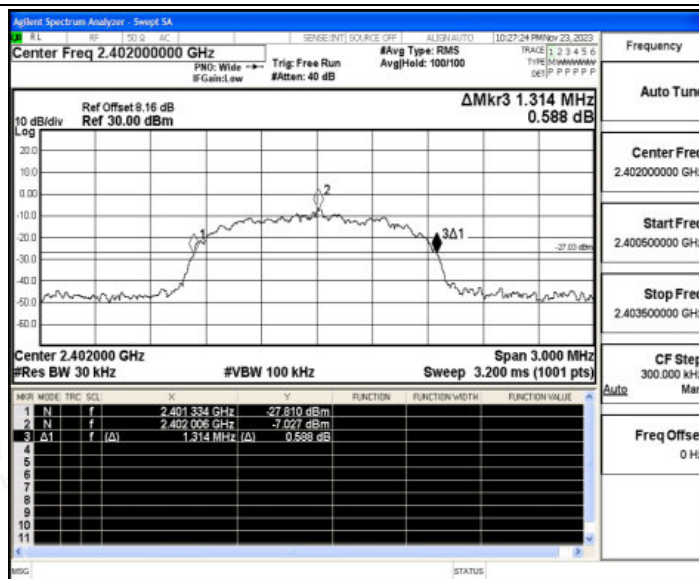


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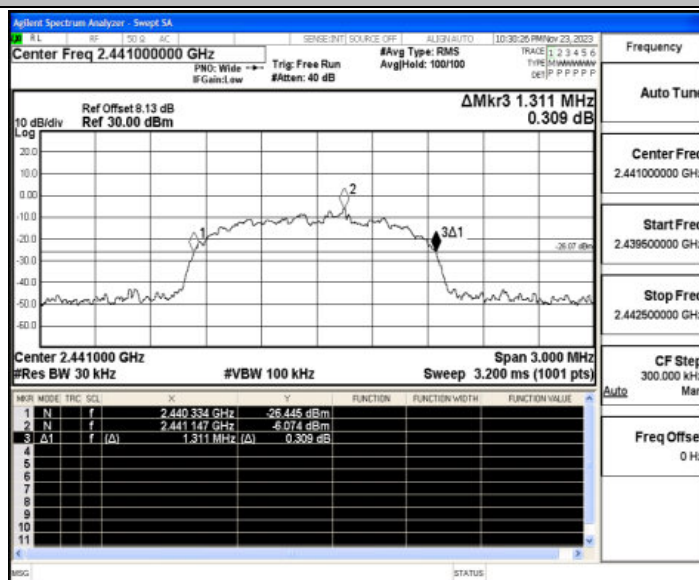
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3DH5_Ant1_2441



3DH5_Ant1_2480

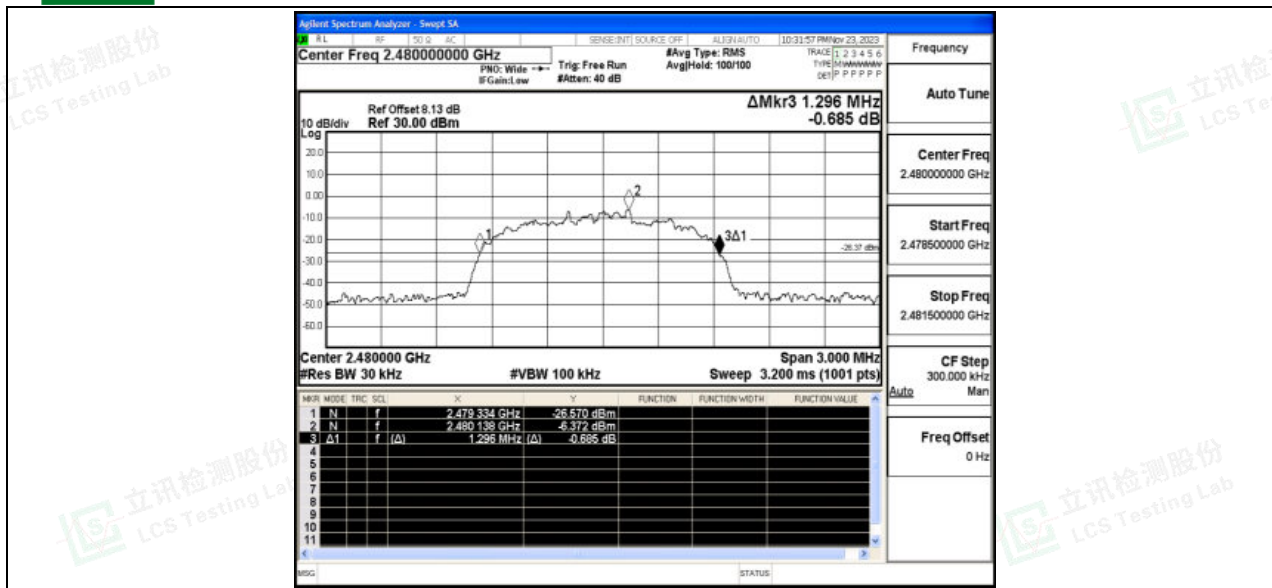


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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.48	≤ 20.97	PASS
		2441	-0.42	≤ 20.97	PASS
		2480	-0.37	≤ 20.97	PASS
2DH5	Ant1	2402	-0.91	≤ 20.97	PASS
		2441	-0.74	≤ 20.97	PASS
		2480	-0.62	≤ 20.97	PASS
3DH5	Ant1	2402	-0.65	≤ 20.97	PASS
		2441	-0.63	≤ 20.97	PASS
		2480	-0.62	≤ 20.97	PASS



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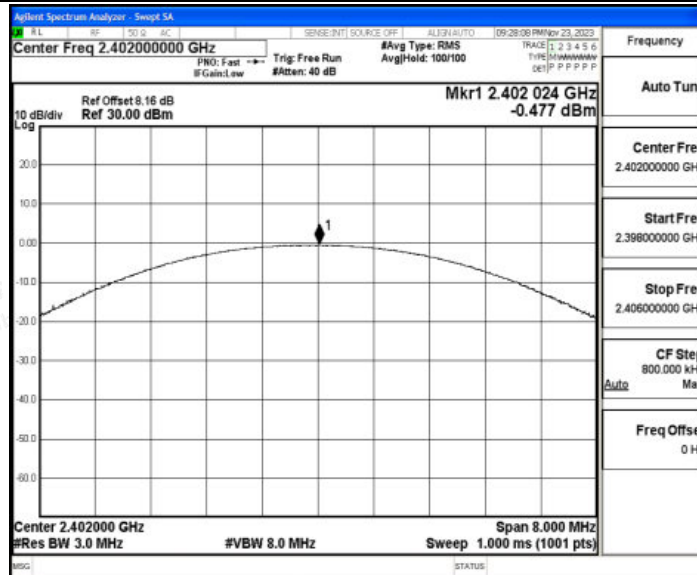
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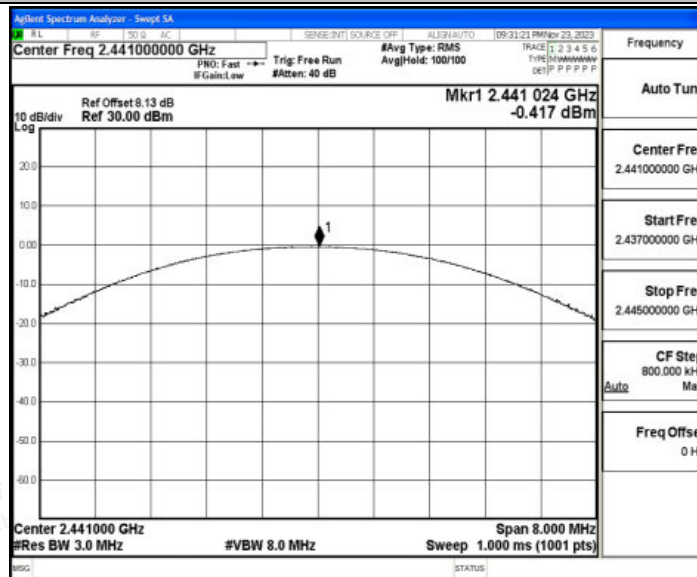


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

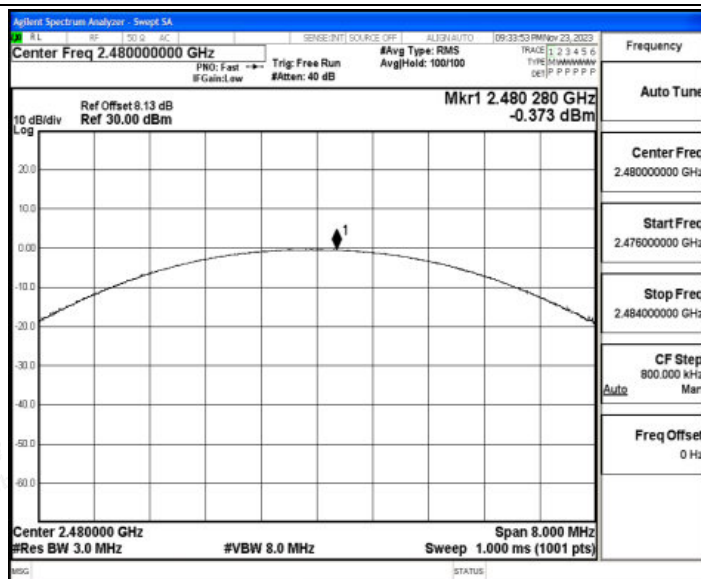


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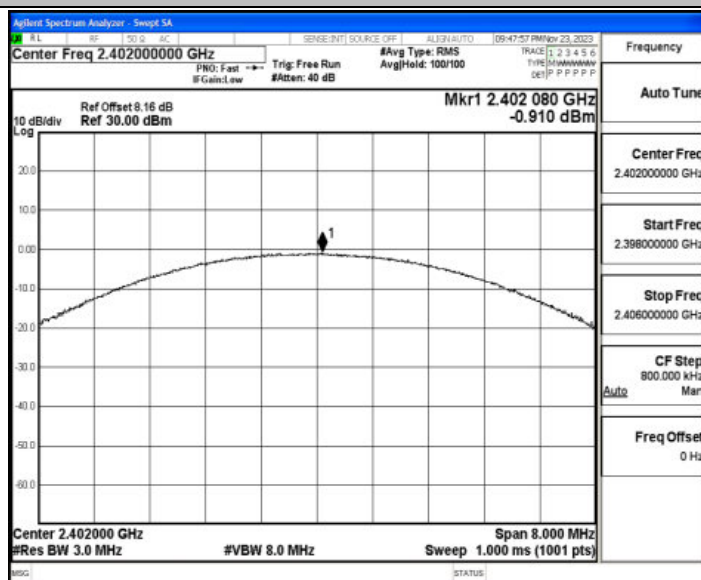
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2DH5_Ant1_2402



2DH5_Ant1_2441

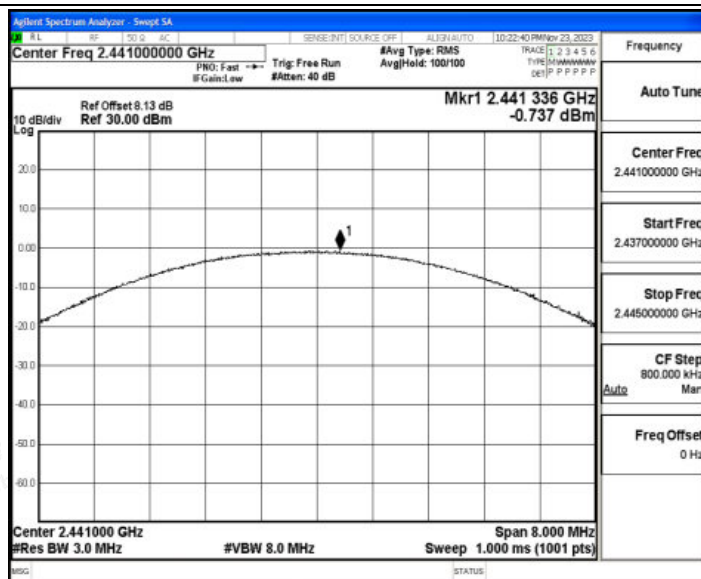


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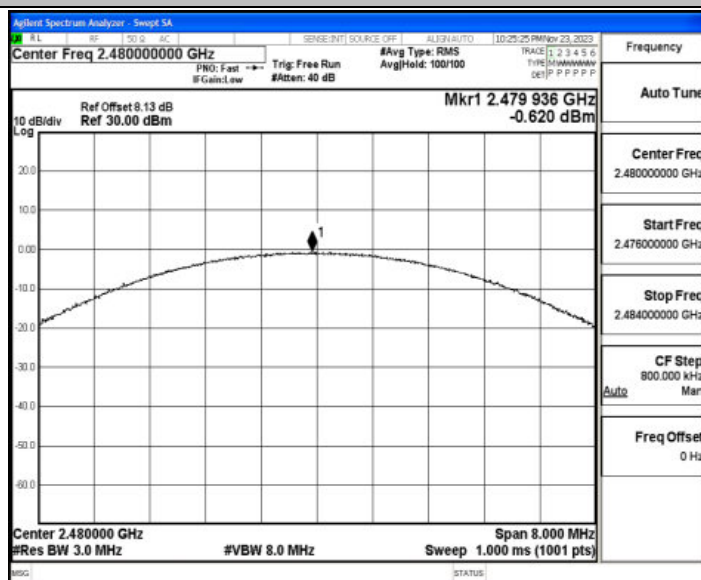
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2DH5_Ant1_2480



3DH5_Ant1_2402

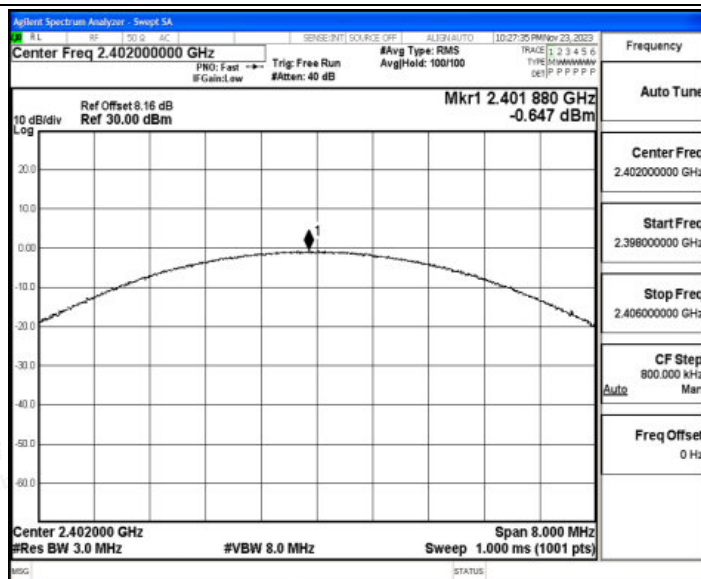


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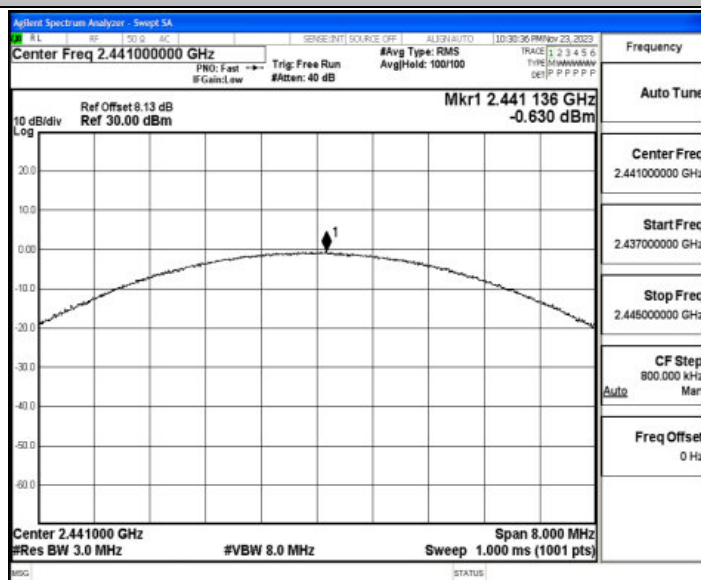
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3DH5_Ant1_2441



3DH5_Ant1_2480

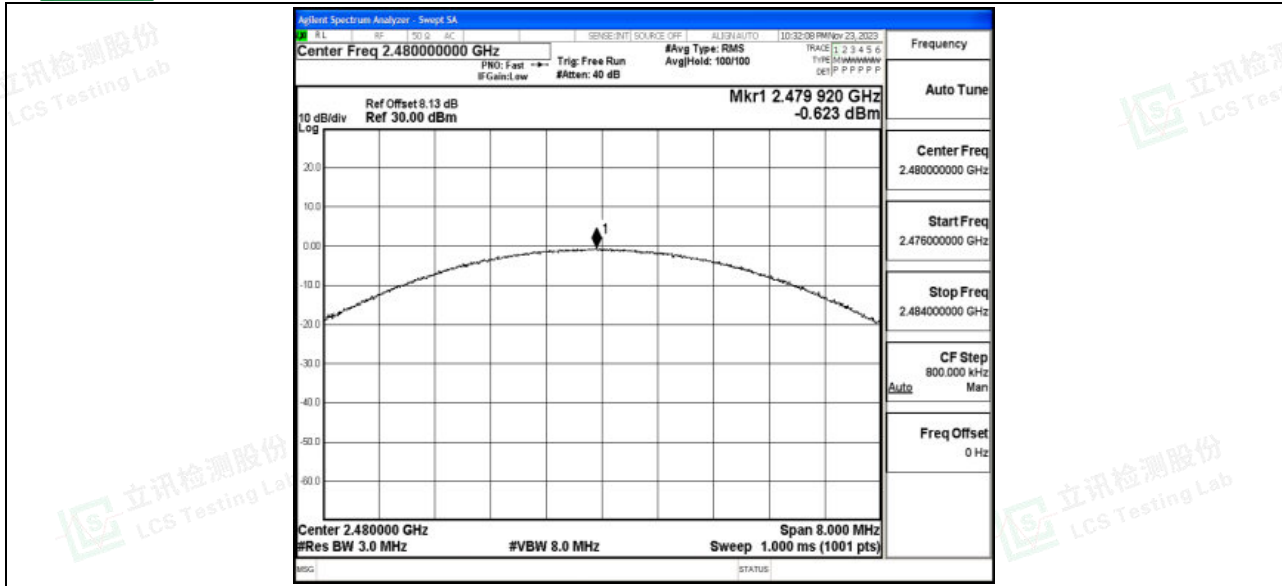


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A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result [MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.004	≥ 0.664	PASS
2DH5	Ant1	Hop	1.16	≥ 0.886	PASS
3DH5	Ant1	Hop	1.006	≥ 0.876	PASS



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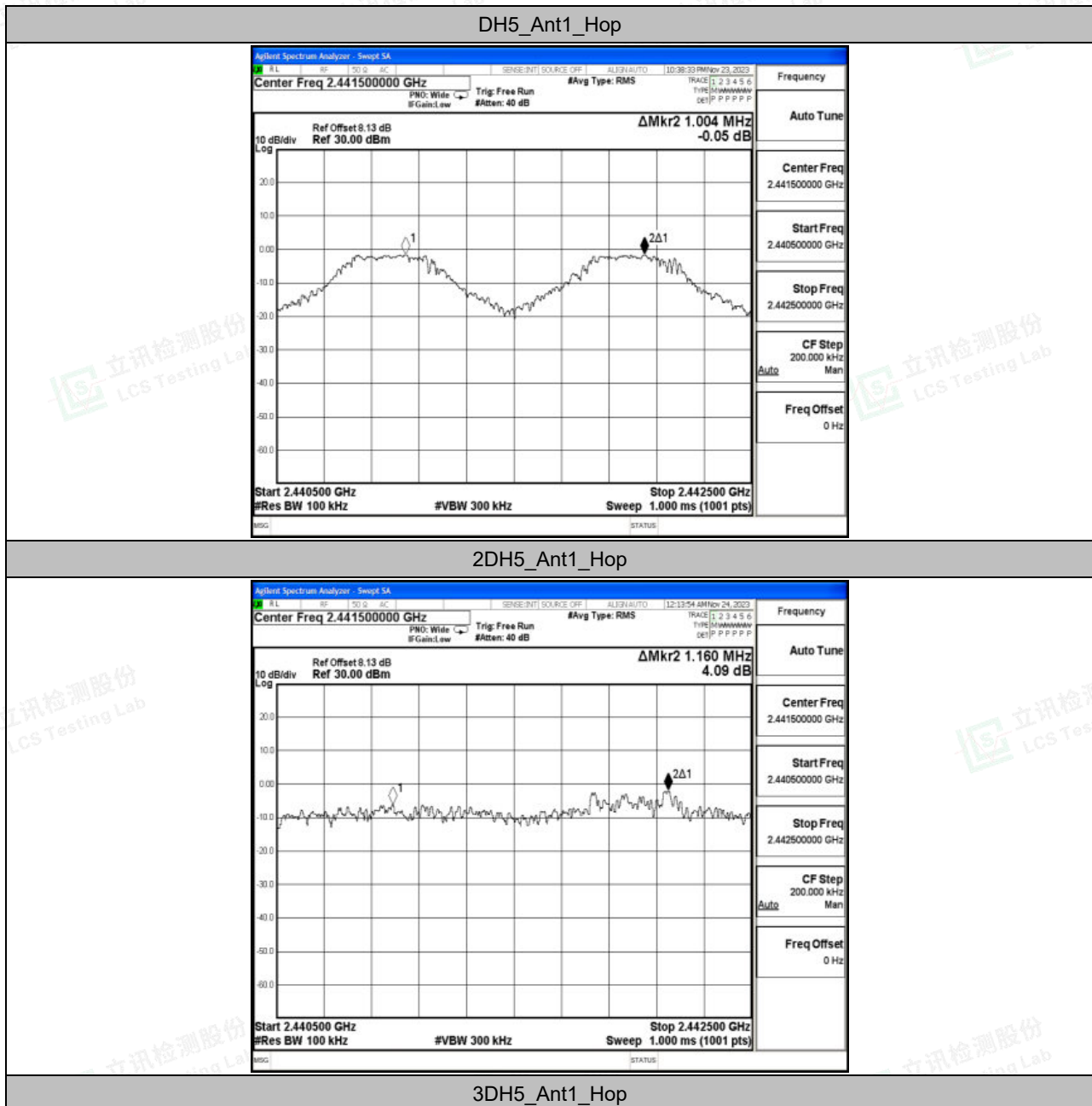
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Test Graphs

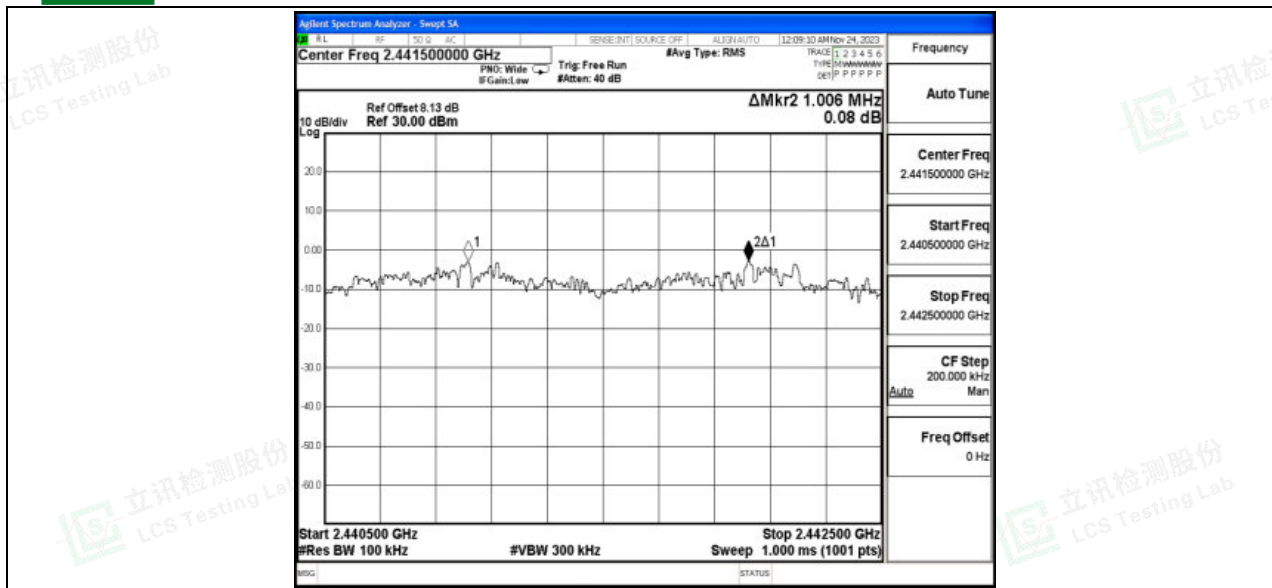


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A.4 Time of occupancy

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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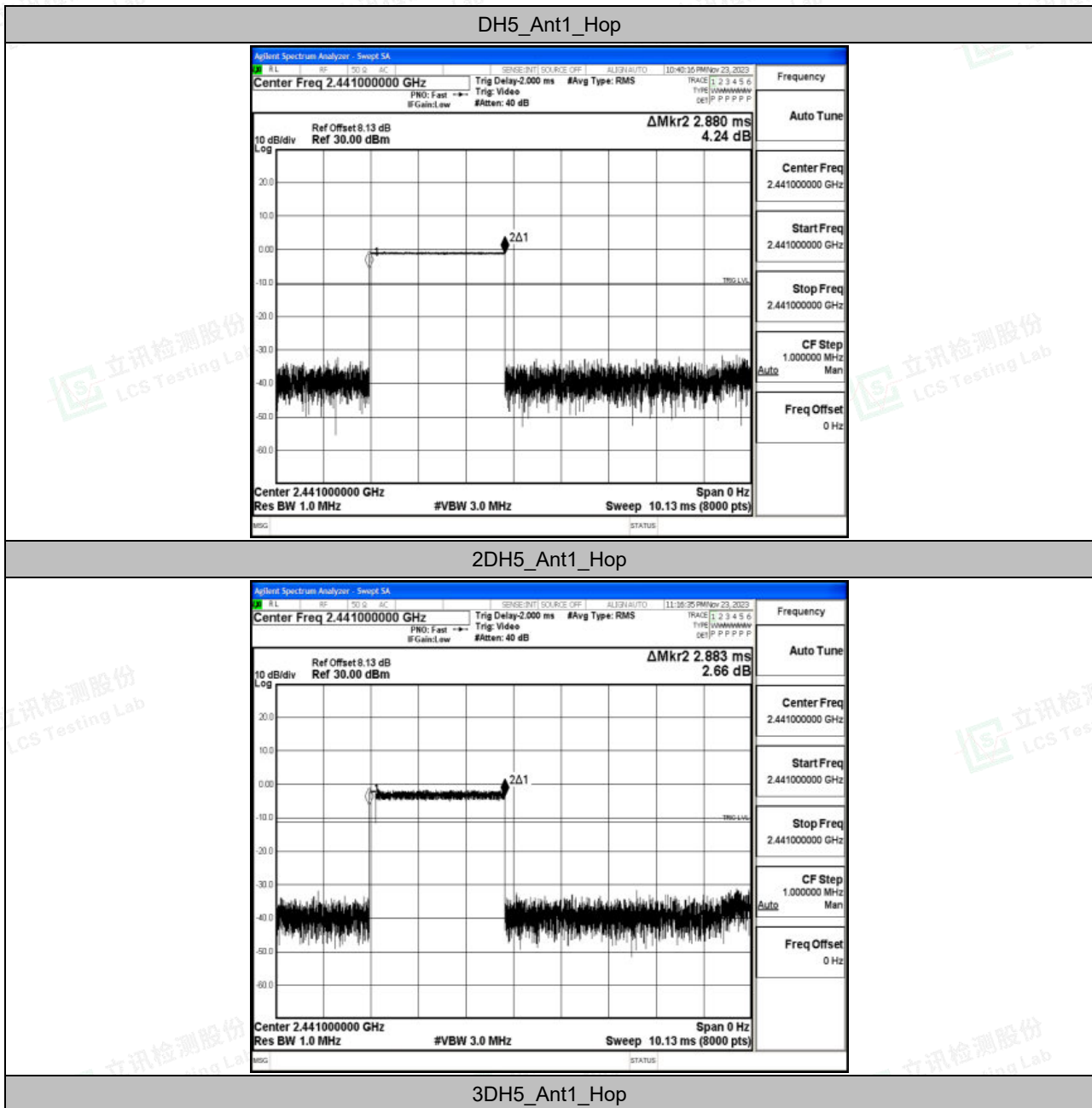
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Test Graphs

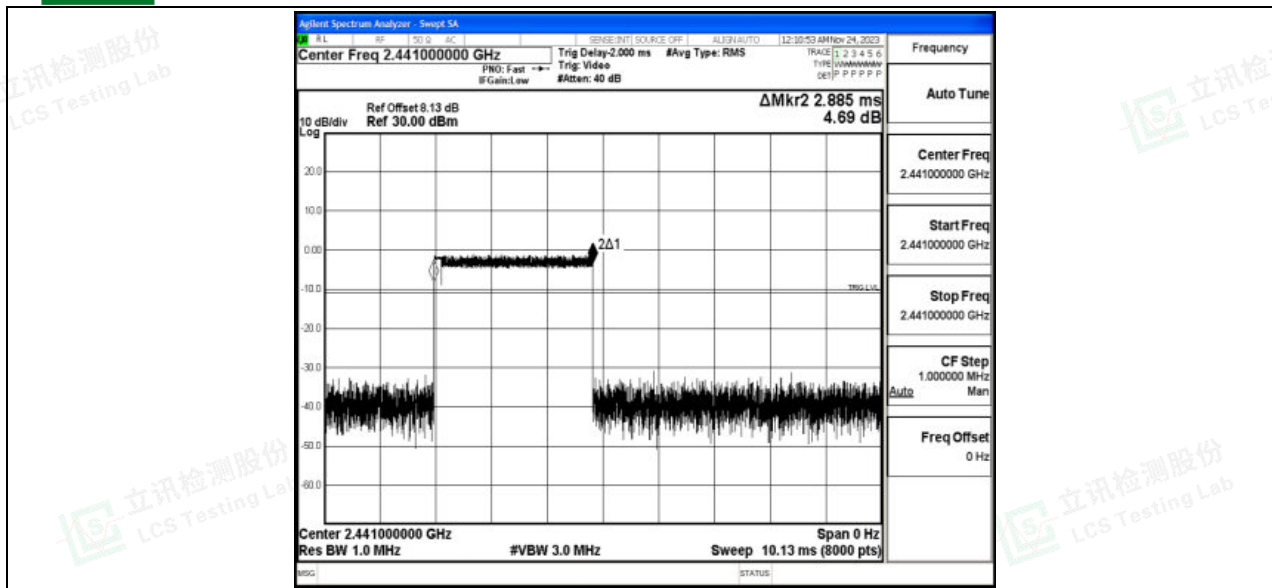


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A.5 Number of hopping channels

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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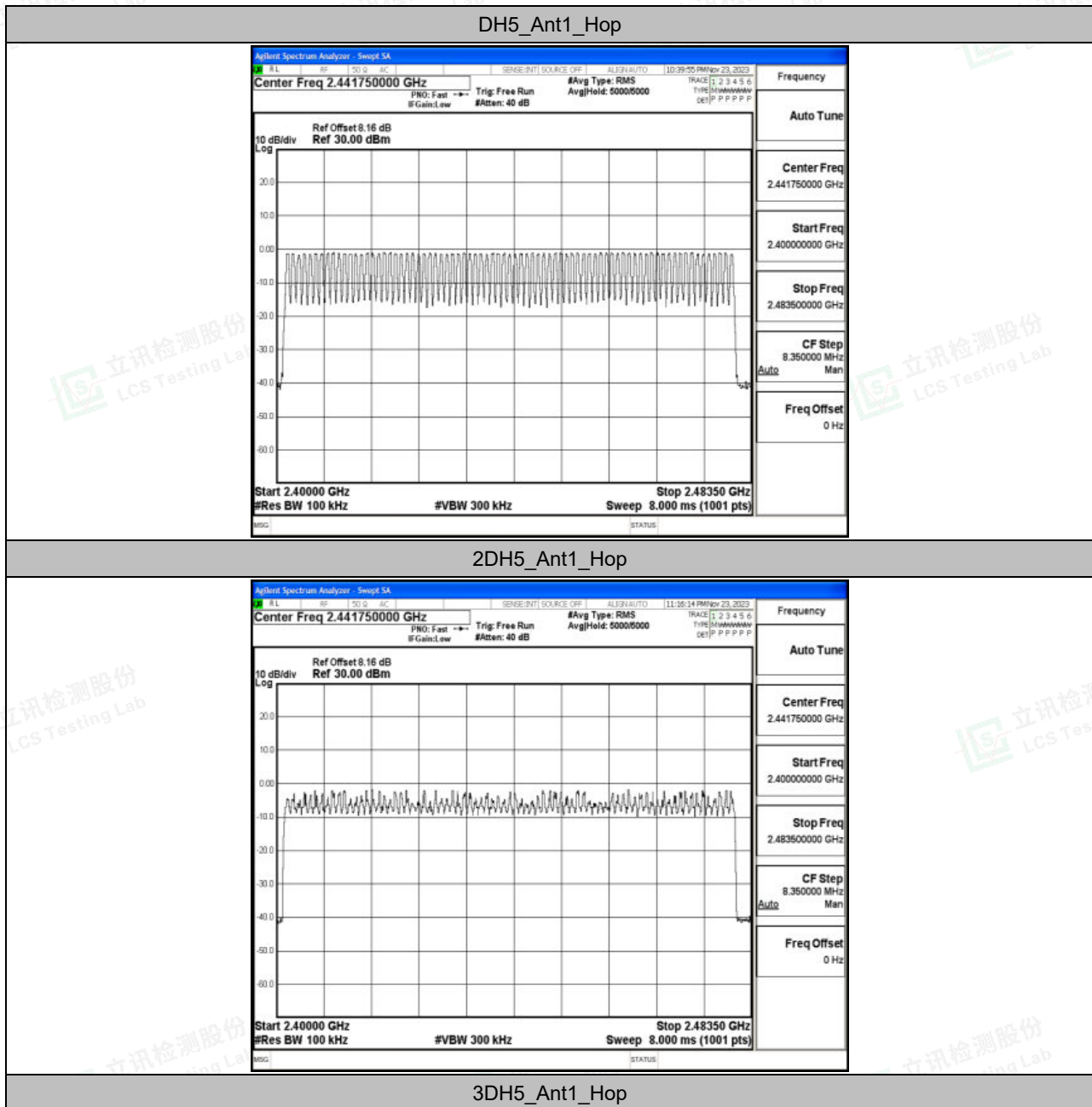
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Test Graphs

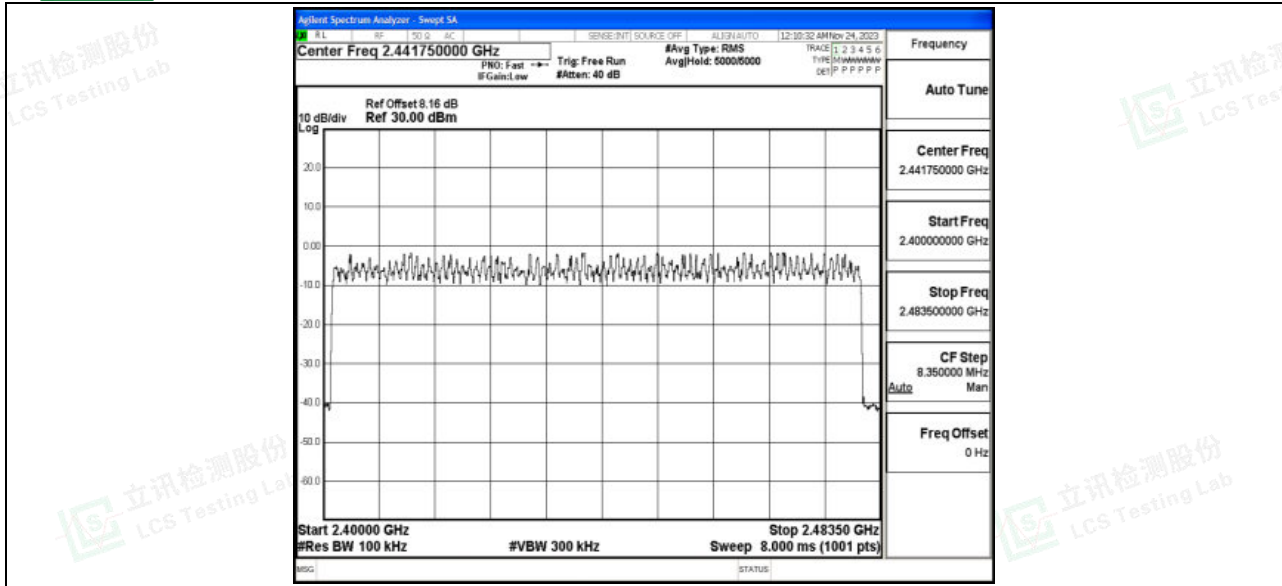


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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.60	-50.68	≤ -21.6	PASS
		High	2480	-1.73	-51.26	≤ -21.73	PASS
		Low	Hop_2402	-1.72	-49.82	≤ -21.72	PASS
		High	Hop_2480	-1.18	-49.69	≤ -21.18	PASS
2DH5	Ant1	Low	2402	-2.60	-50.03	≤ -22.6	PASS
		High	2480	-4.46	-50.07	≤ -24.46	PASS
		Low	Hop_2402	-4.11	-50.04	≤ -24.11	PASS
		High	Hop_2480	-2.38	-49.36	≤ -22.38	PASS
3DH5	Ant1	Low	2402	-5.54	-51.32	≤ -25.54	PASS
		High	2480	-5.29	-50.46	≤ -25.29	PASS
		Low	Hop_2402	-6.16	-49.93	≤ -26.16	PASS
		High	Hop_2480	-1.95	-49.14	≤ -21.95	PASS



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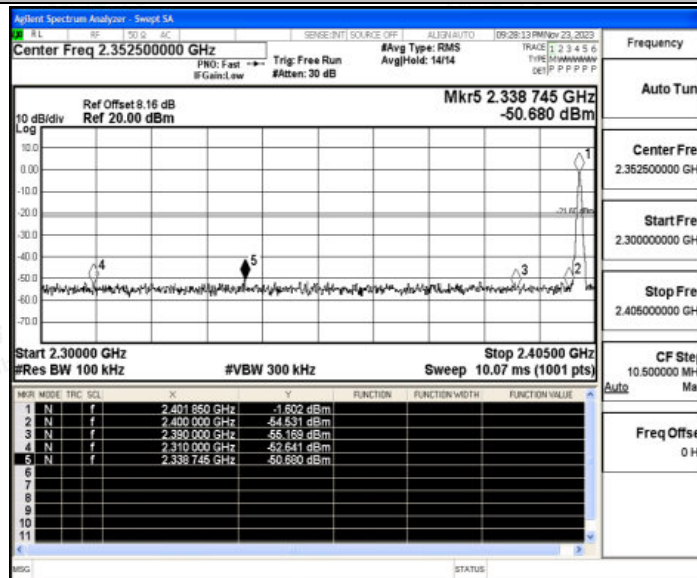
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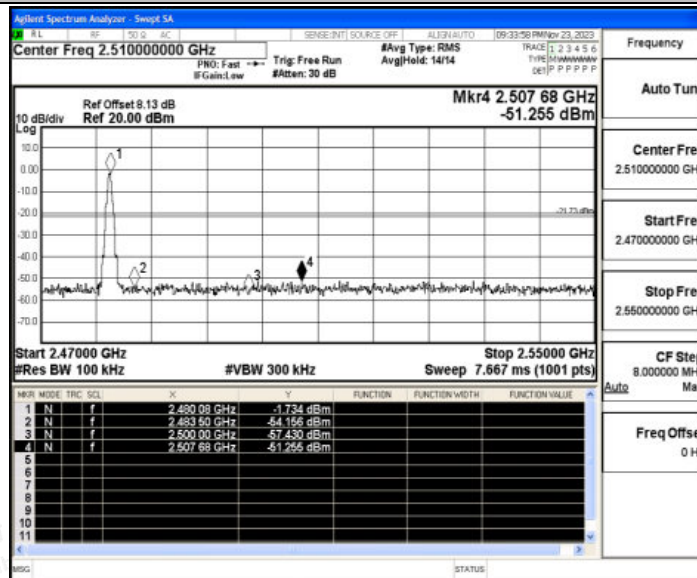


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

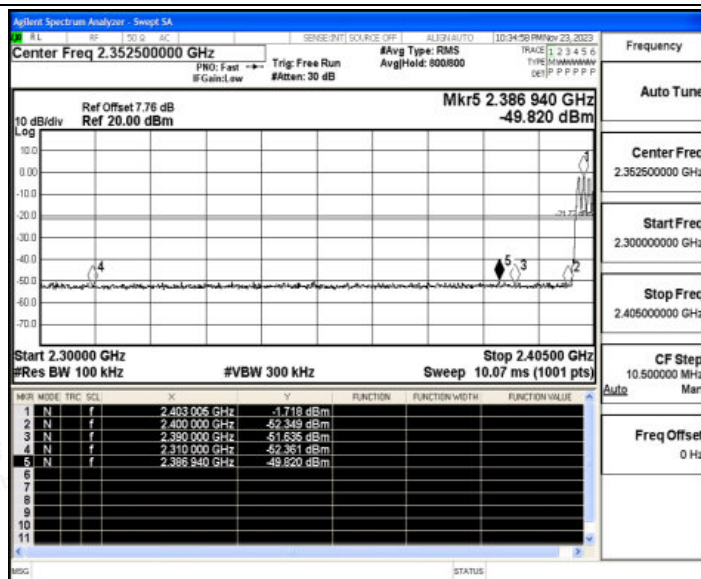


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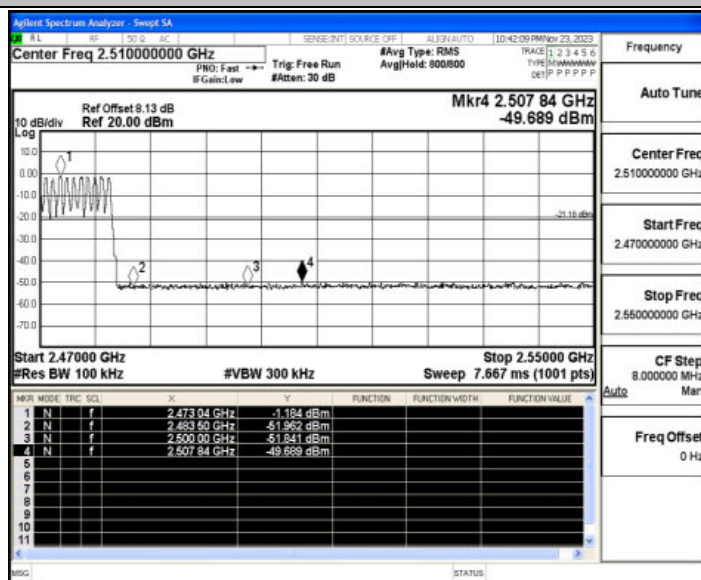
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

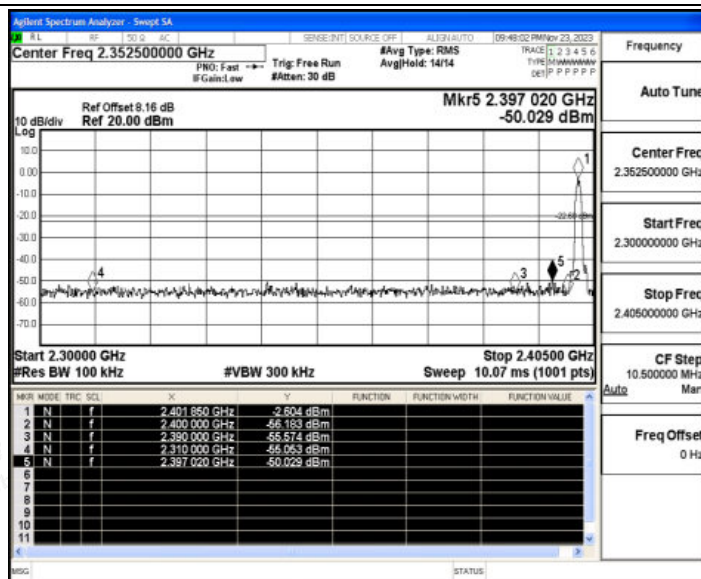


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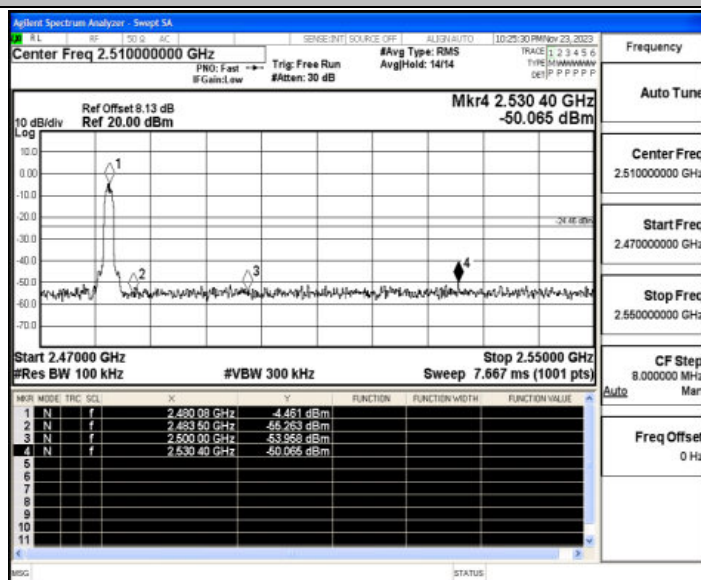
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

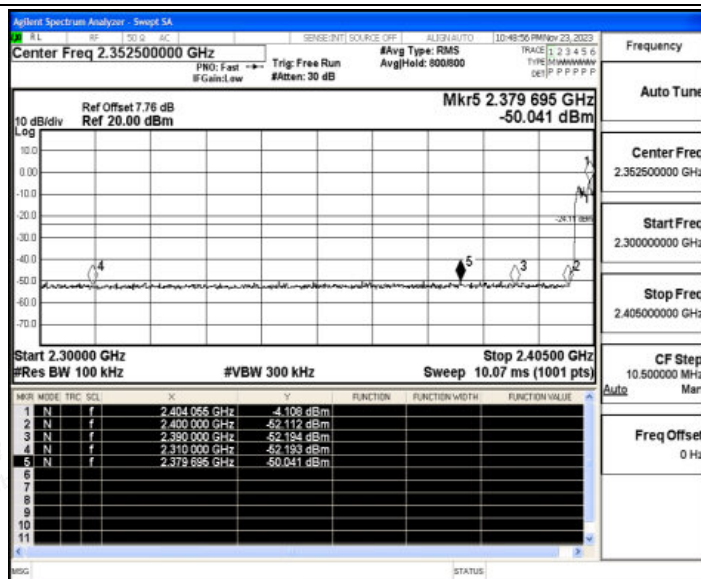


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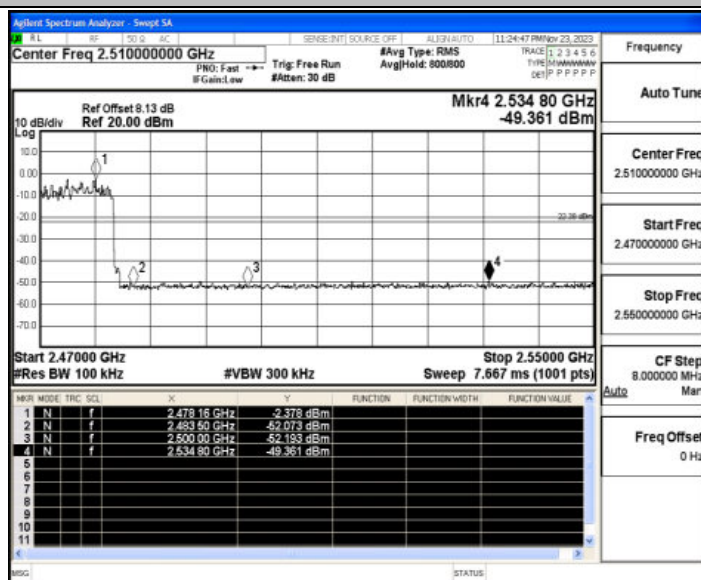
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

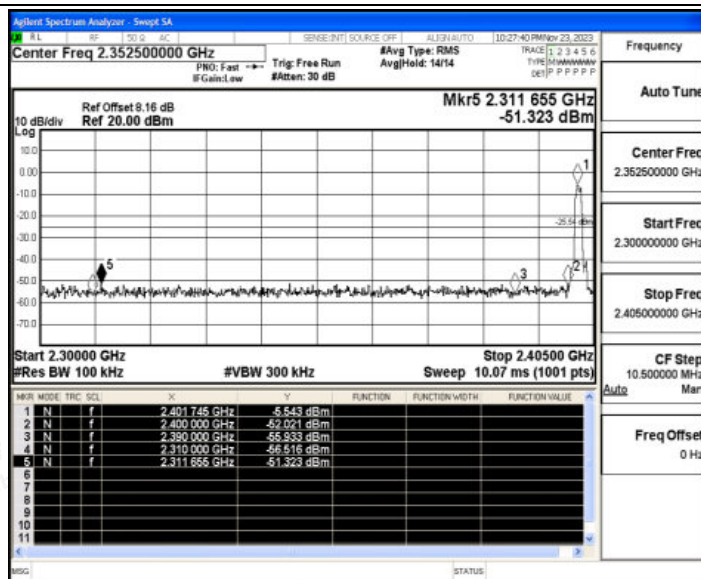


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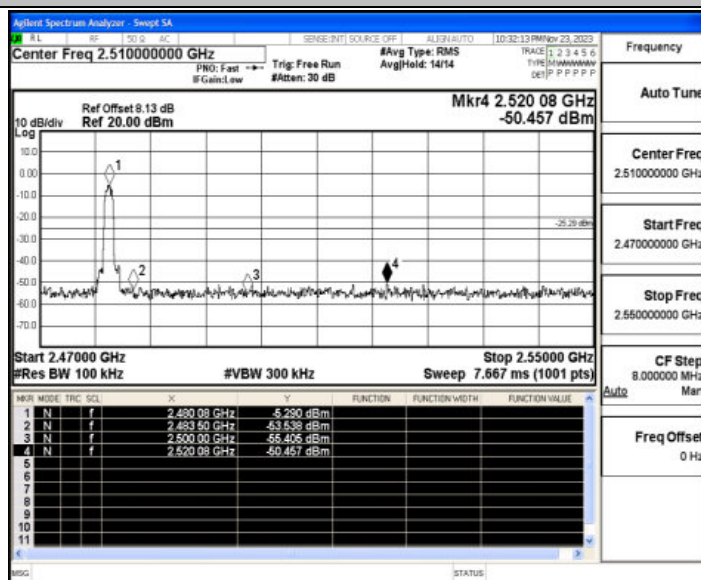
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

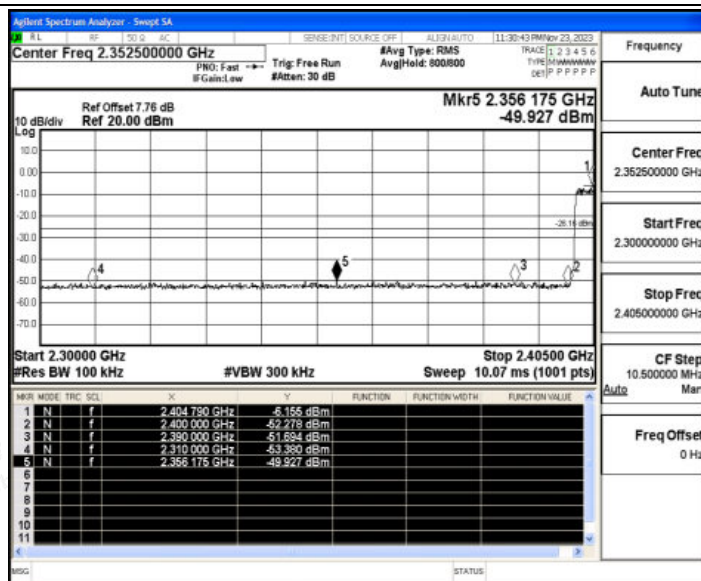


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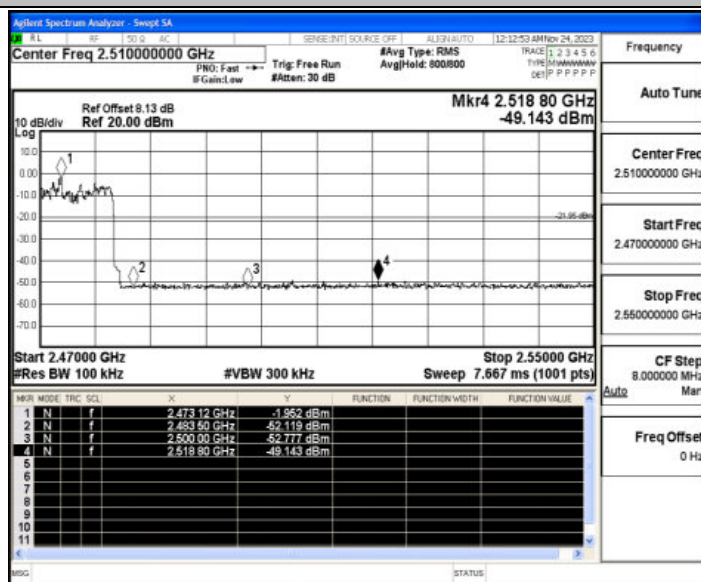
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3DH5_Ant1_High_Hop_2480



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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	-1.45	-1.45	---	PASS
			30~1000	-1.45	-59.53	≤-21.45	PASS
			1000~26500	-1.45	-49.26	≤-21.45	PASS
		2441	Reference	-1.18	-1.18	---	PASS
			30~1000	-1.18	-61.22	≤-21.18	PASS
			1000~26500	-1.18	-48.89	≤-21.18	PASS
		2480	Reference	-1.19	-1.19	---	PASS
			30~1000	-1.19	-60.42	≤-21.19	PASS
			1000~26500	-1.19	-49.45	≤-21.19	PASS
2DH5	Ant1	2402	Reference	-3.44	-3.44	---	PASS
			30~1000	-3.44	-60.82	≤-23.44	PASS
			1000~26500	-3.44	-49.16	≤-23.44	PASS
		2441	Reference	-5.47	-5.47	---	PASS
			30~1000	-5.47	-60.87	≤-25.47	PASS
			1000~26500	-5.47	-48.33	≤-25.47	PASS
		2480	Reference	-2.04	-2.04	---	PASS
			30~1000	-2.04	-61.62	≤-22.04	PASS
			1000~26500	-2.04	-48.89	≤-22.04	PASS
3DH5	Ant1	2402	Reference	-4.98	-4.98	---	PASS
			30~1000	-4.98	-61.15	≤-24.98	PASS
			1000~26500	-4.98	-49.26	≤-24.98	PASS
		2441	Reference	-5.12	-5.12	---	PASS
			30~1000	-5.12	-61.43	≤-25.12	PASS
			1000~26500	-5.12	-49.02	≤-25.12	PASS
		2480	Reference	-3.21	-3.21	---	PASS
			30~1000	-3.21	-60.72	≤-23.21	PASS
			1000~26500	-3.21	-48.94	≤-23.21	PASS



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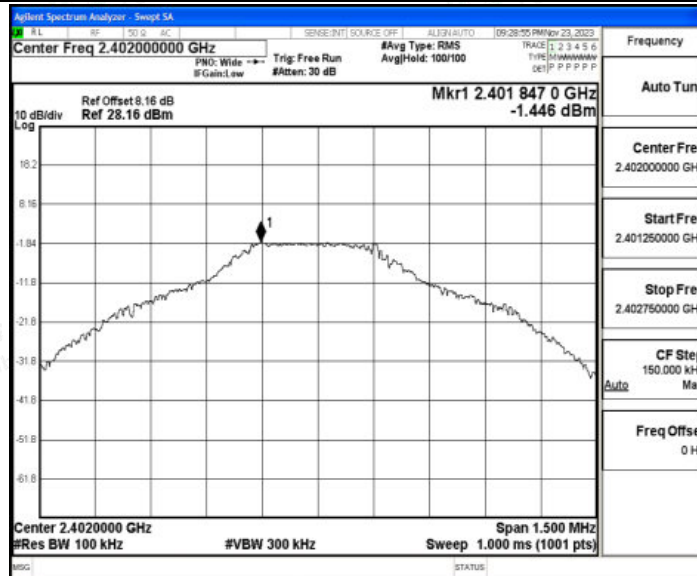
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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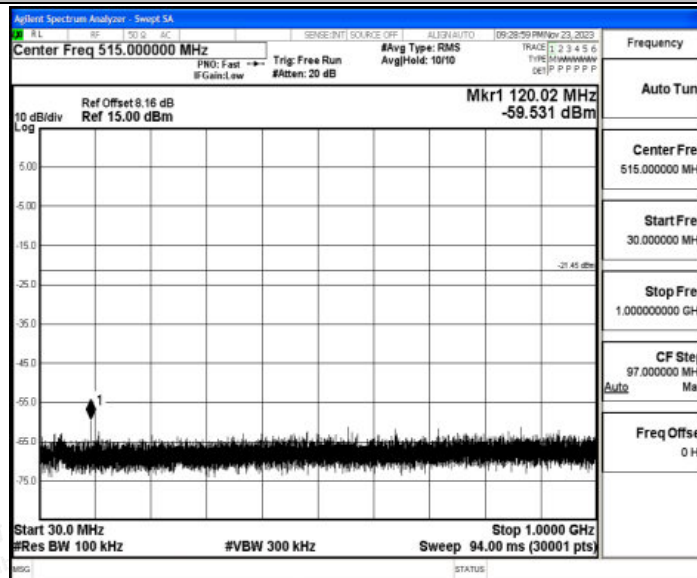


Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

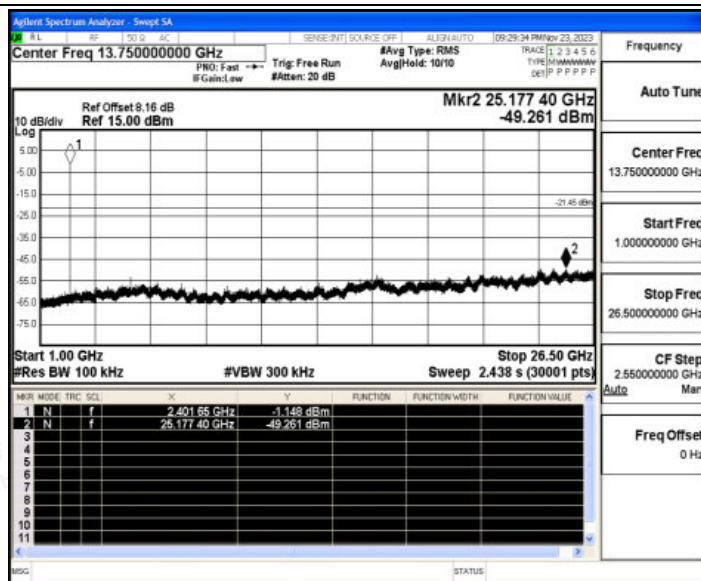


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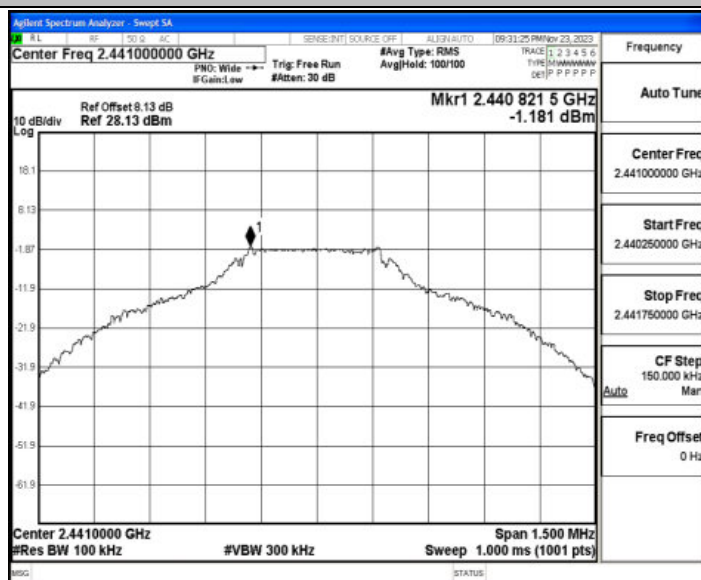
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

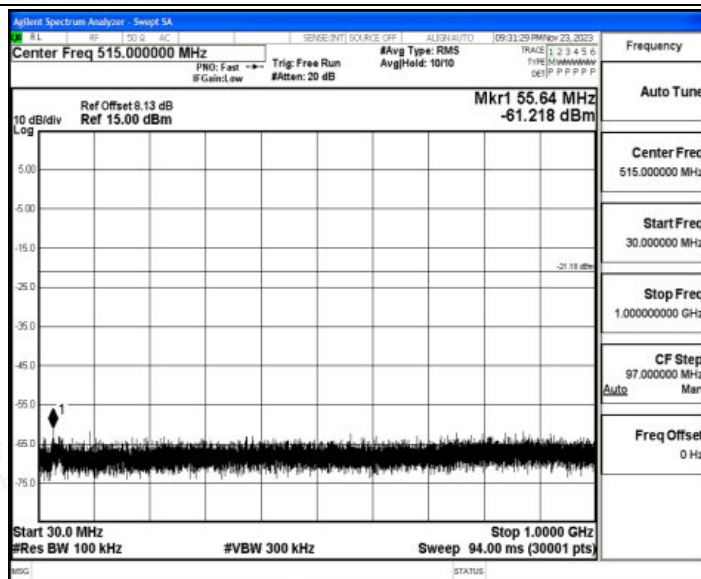


Shenzhen LCS Compliance Testing Laboratory Ltd.

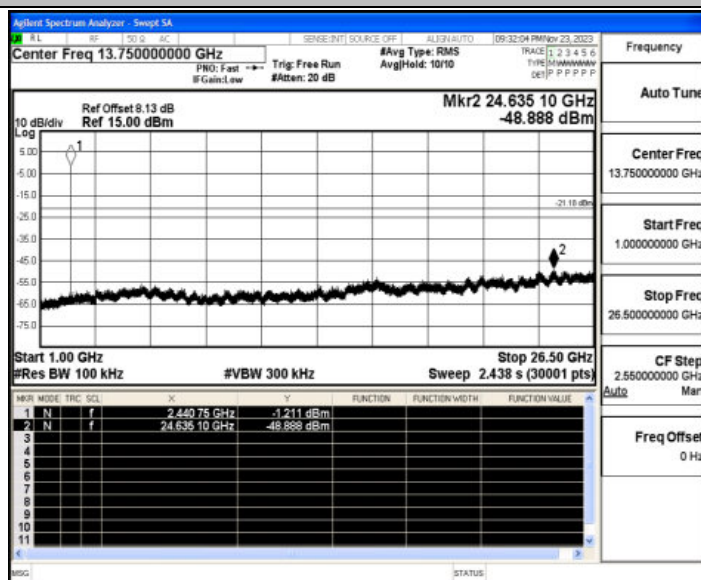
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference

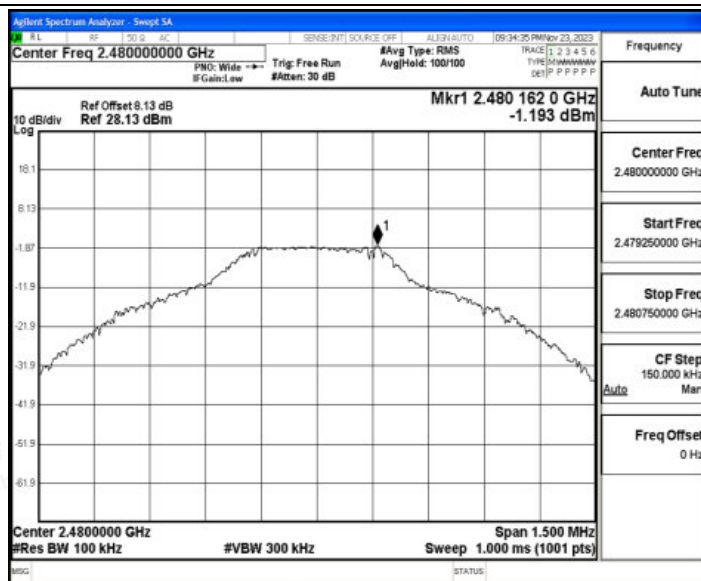


Shenzhen LCS Compliance Testing Laboratory Ltd.

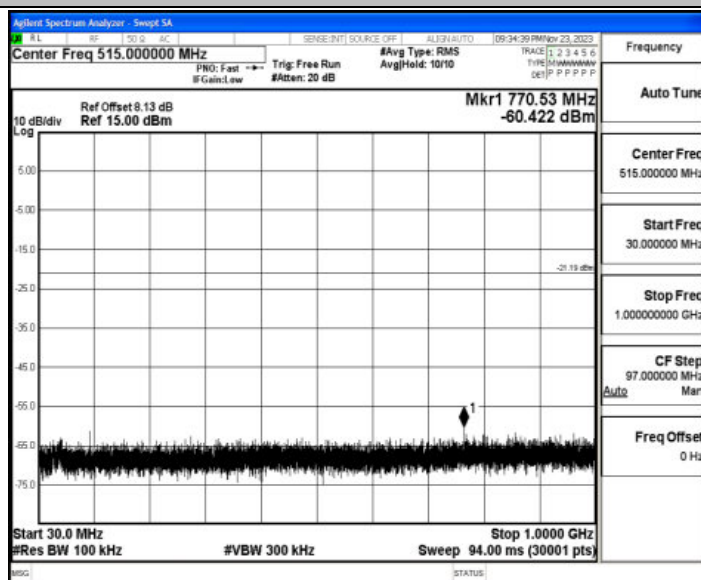
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

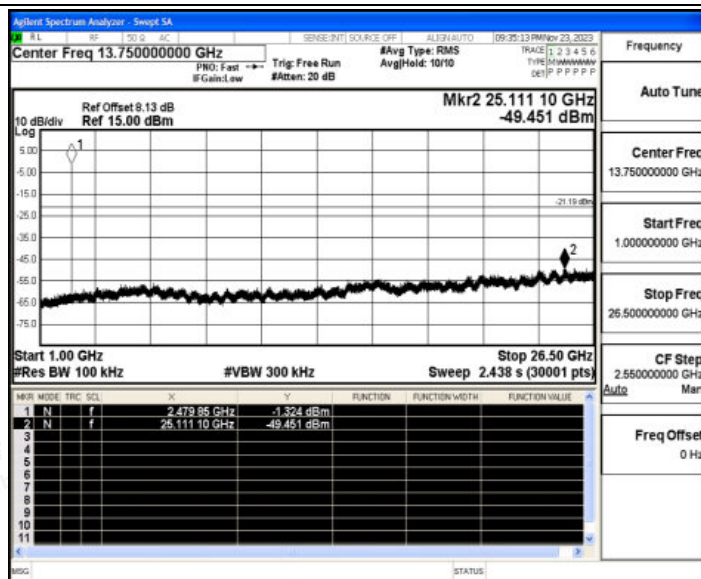


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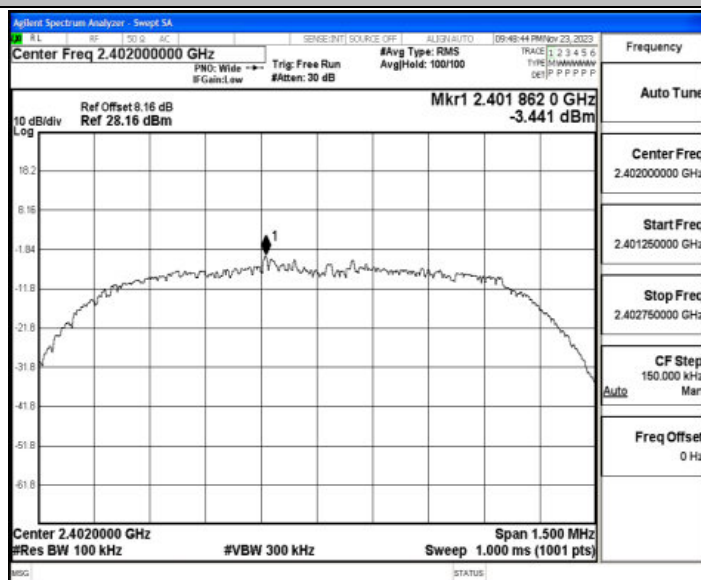
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2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

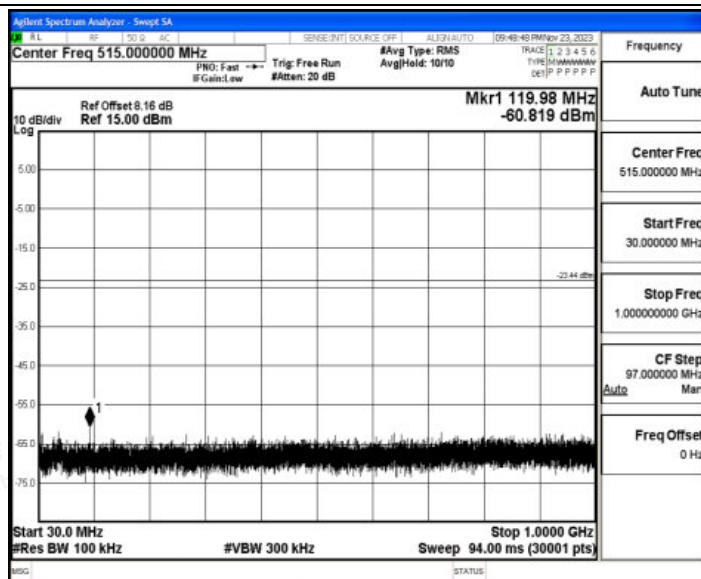


Shenzhen LCS Compliance Testing Laboratory Ltd.

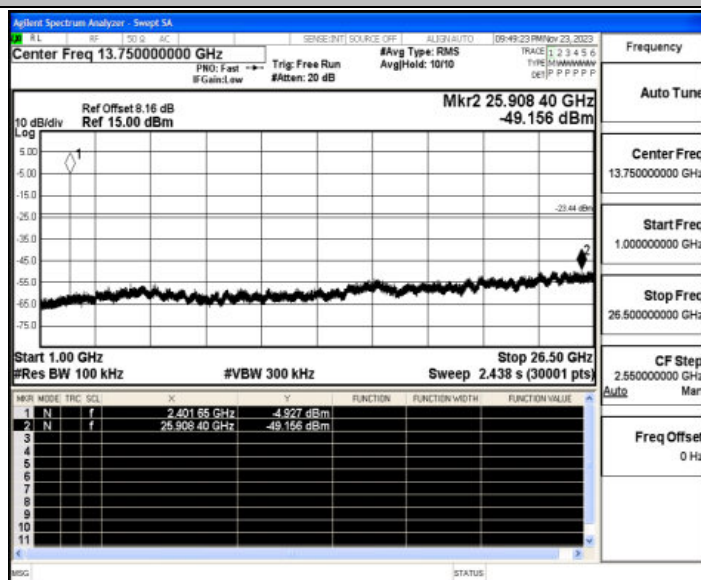
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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference

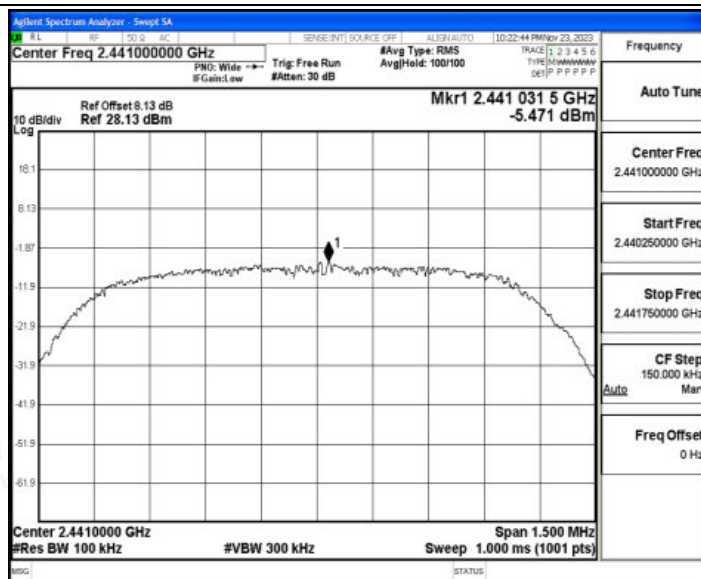


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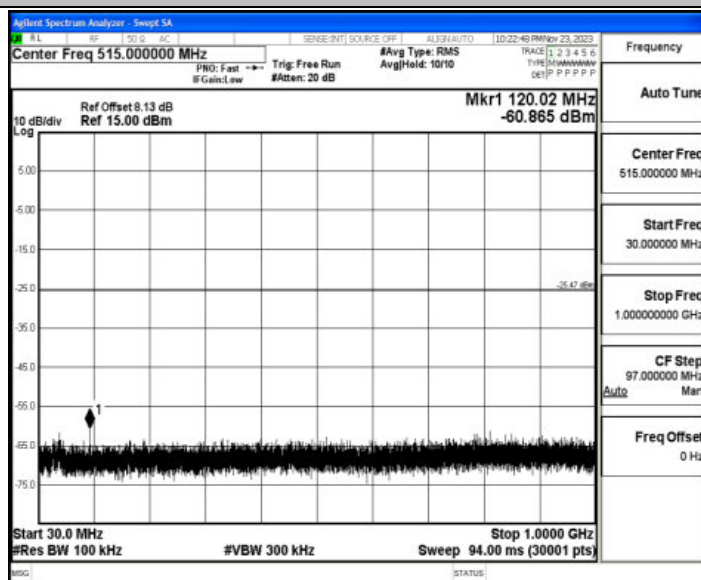
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

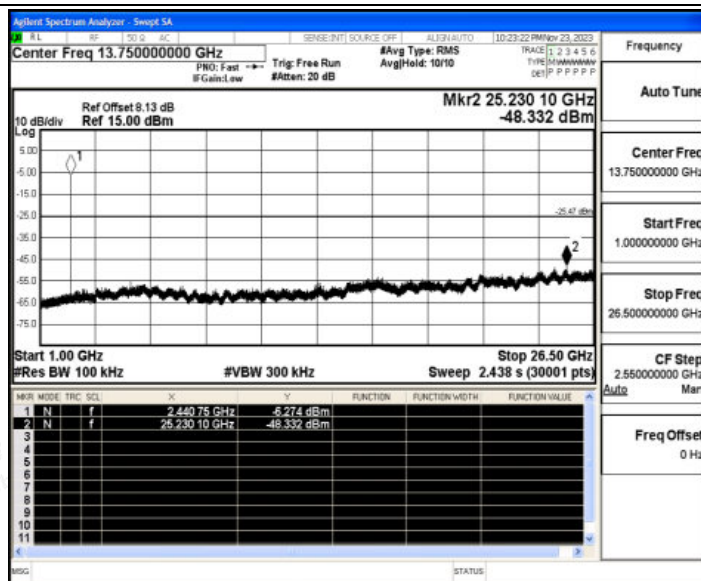


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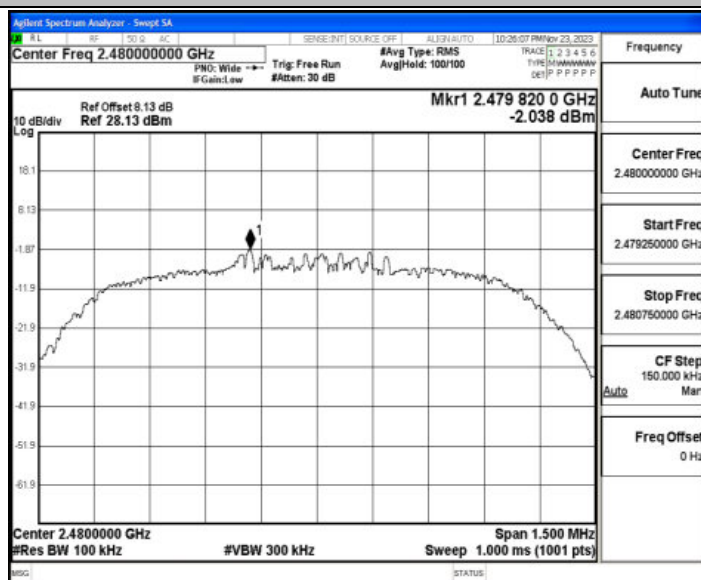
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000

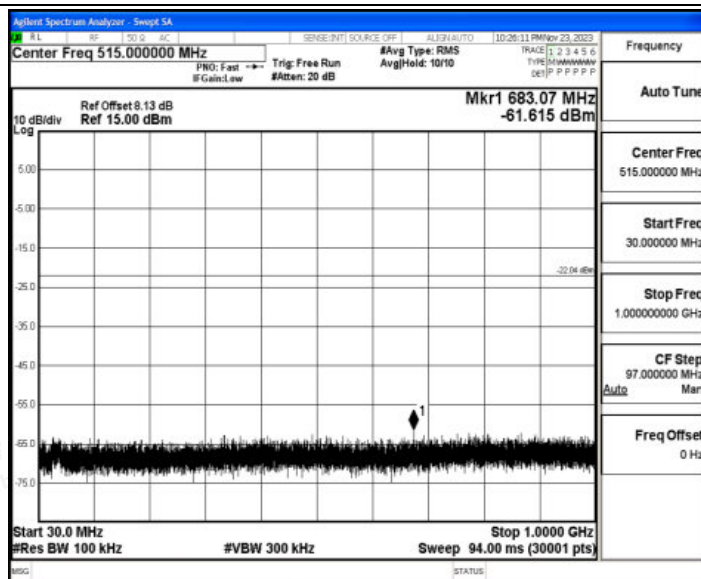


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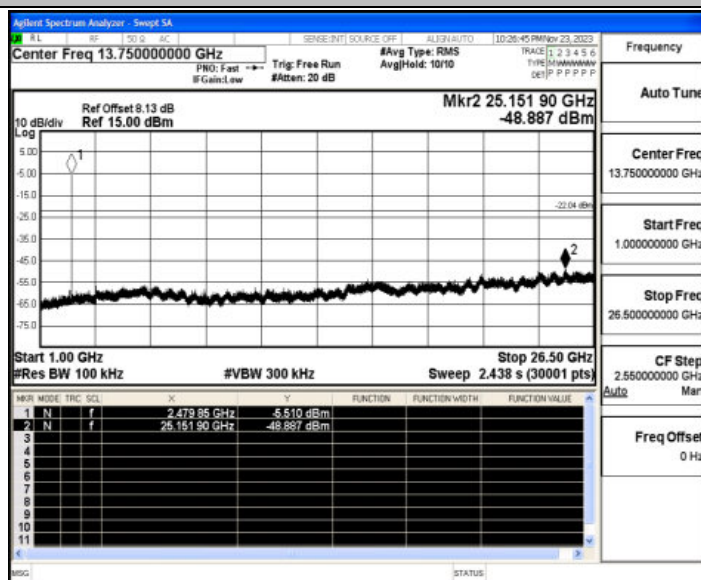
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2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

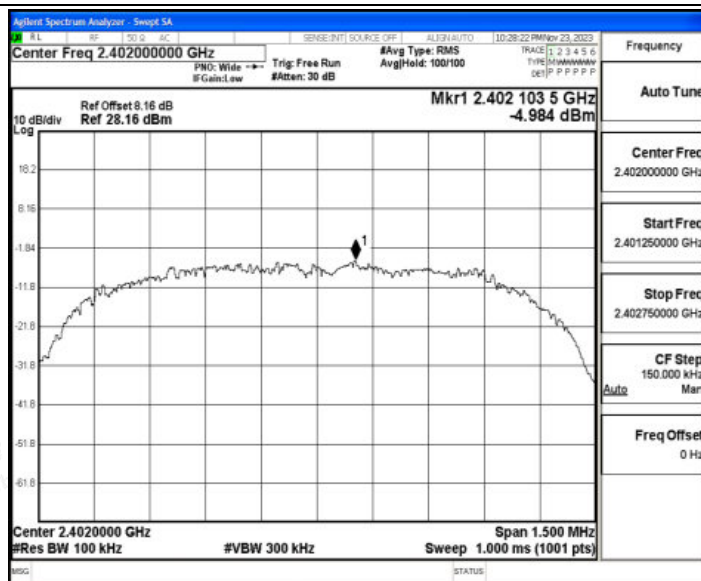


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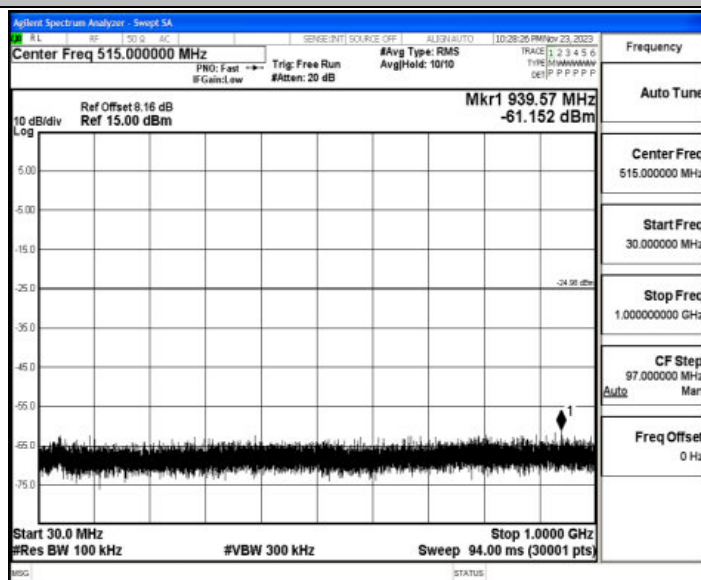
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3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500

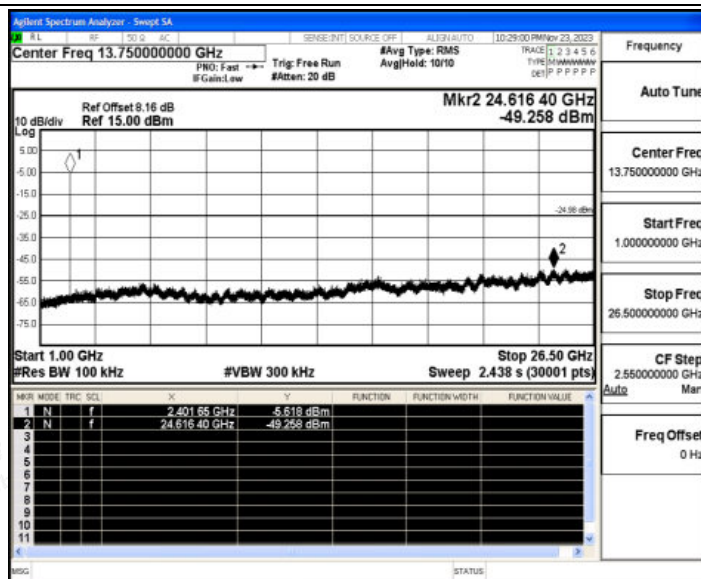


Shenzhen LCS Compliance Testing Laboratory Ltd.

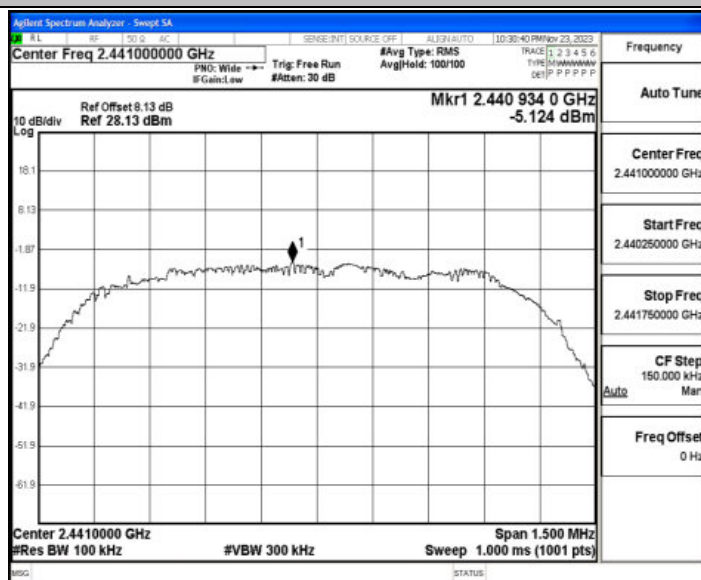
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3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

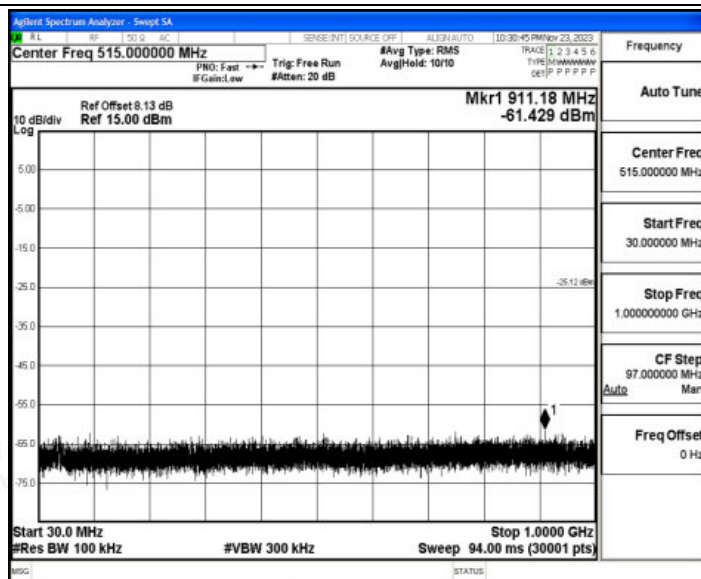


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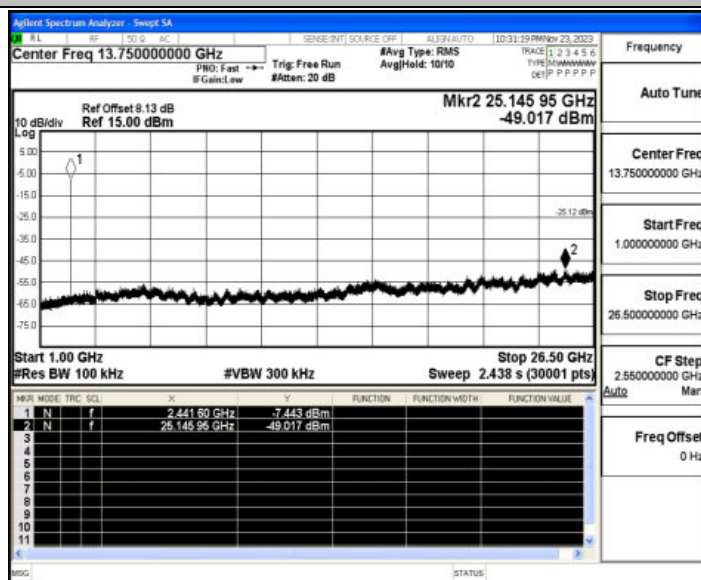
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

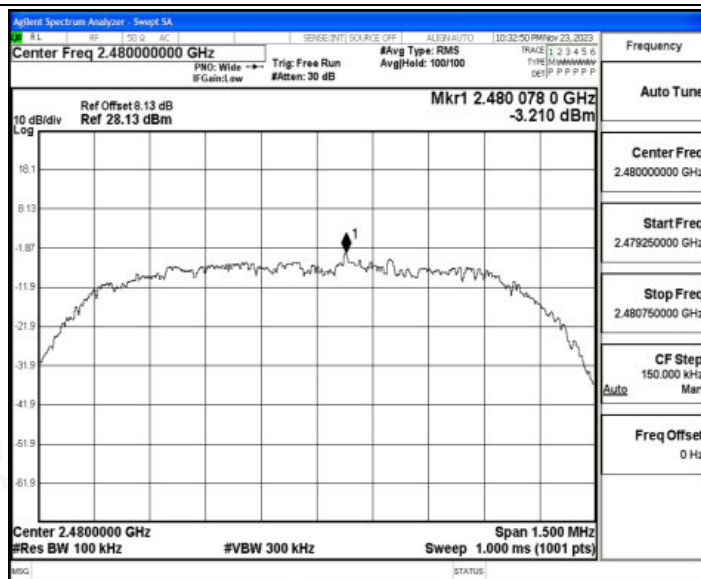


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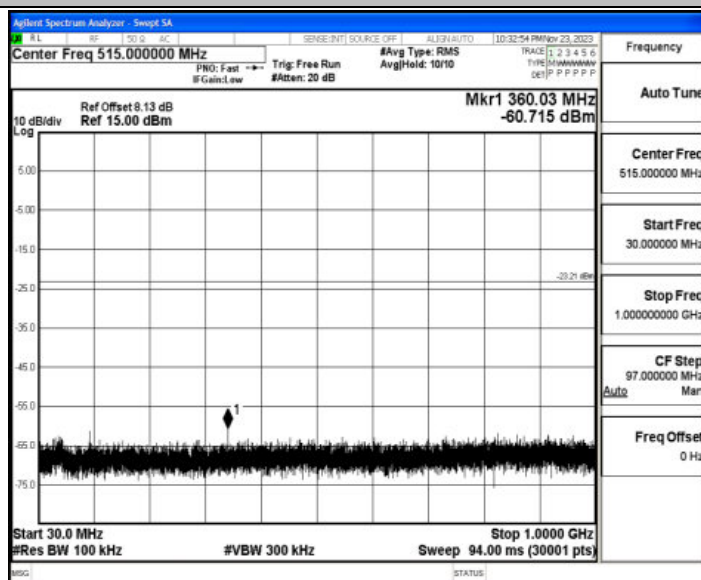
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

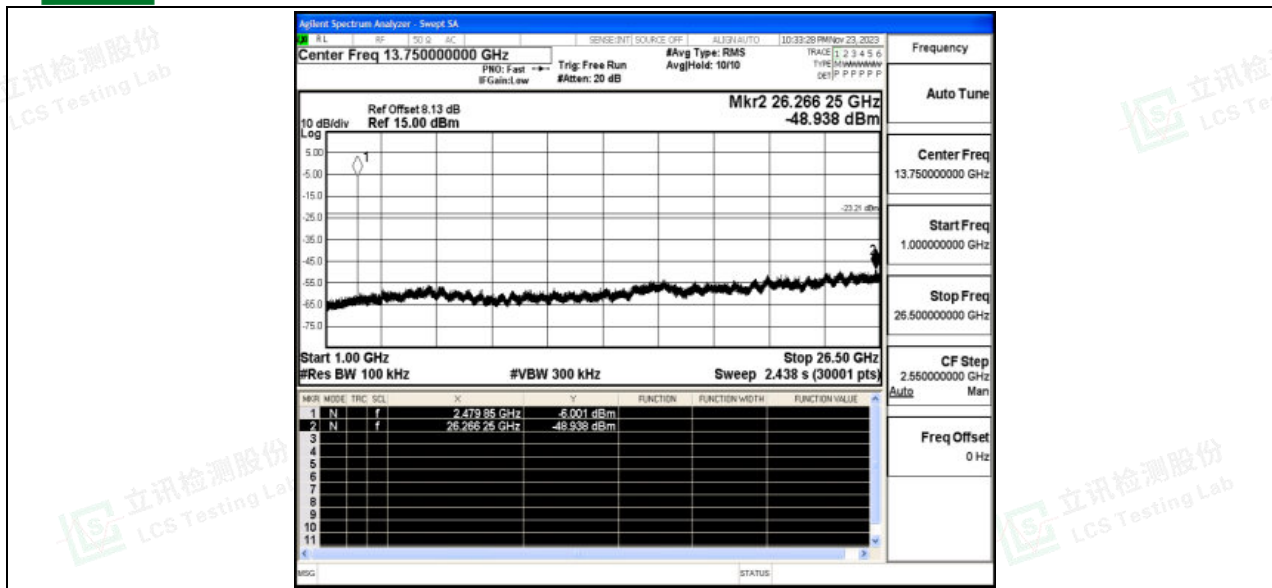


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A.8 Emissions in Restricted Bands

Test Result

TestModel	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.21	≤-41.20	45.99	≤54	PASS
				AV	2381.060	-48.65	≤-41.20	46.55	≤54	PASS
				AV	2390.000	-48.87	≤-41.20	46.33	≤54	PASS
				Peak	2310.000	-45.48	≤-21.20	49.72	≤74	PASS
				Peak	2314.280	-39.38	≤-21.20	55.82	≤74	PASS
				Peak	2390.000	-43.19	≤-21.20	52.01	≤74	PASS
		High	2480	AV	2483.500	-48.57	≤-41.20	46.63	≤54	PASS
				AV	2489.120	-48.51	≤-41.20	46.69	≤54	PASS
				AV	2500.000	-48.7	≤-41.20	46.50	≤54	PASS
				Peak	2483.500	-44.35	≤-21.20	50.85	≤74	PASS
				Peak	2488.240	-40.17	≤-21.20	55.03	≤74	PASS
				Peak	2500.000	-42.97	≤-21.20	52.23	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-41.47	≤-21.20	53.73	≤74	PASS
				Peak	2388.305	-38.34	≤-21.20	56.86	≤74	PASS
				Peak	2390.000	-39.88	≤-21.20	55.32	≤74	PASS
		High	Hop_2480	Peak	2483.500	-41.1	≤-21.20	54.10	≤74	PASS
				Peak	2492.640	-38.11	≤-21.20	57.09	≤74	PASS
				Peak	2500.000	-39.64	≤-21.20	55.56	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.22	≤-41.20	45.98	≤54	PASS
				AV	2381.690	-48.65	≤-41.20	46.55	≤54	PASS
				AV	2390.000	-48.78	≤-41.20	46.42	≤54	PASS
				Peak	2310.000	-44.48	≤-21.20	50.72	≤74	PASS
				Peak	2364.995	-39.38	≤-21.20	55.82	≤74	PASS
				Peak	2390.000	-44.02	≤-21.20	51.18	≤74	PASS
		High	2480	AV	2483.500	-48.57	≤-41.20	46.63	≤54	PASS
				AV	2483.600	-48.45	≤-41.20	46.75	≤54	PASS
				AV	2500.000	-48.72	≤-41.20	46.48	≤54	PASS
				Peak	2483.500	-46.08	≤-21.20	49.12	≤74	PASS
				Peak	2496.480	-39.43	≤-21.20	55.77	≤74	PASS
				Peak	2500.000	-44.06	≤-21.20	51.14	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-41.82	≤-21.20	53.38	≤74	PASS
				Peak	2316.695	-38.18	≤-21.20	57.02	≤74	PASS
				Peak	2390.000	-40.41	≤-21.20	54.79	≤74	PASS
		High	Hop_2480	Peak	2483.500	-40.45	≤-21.20	54.75	≤74	PASS
				Peak	2496.560	-38.1	≤-21.20	57.10	≤74	PASS



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3DH5	Ant1	Low	2402	Peak	2500.000	-39.53	≤ -21.20	55.67	≤ 74	PASS
				AV	2310.000	-49.19	≤ -41.20	46.01	≤ 54	PASS
				AV	2389.880	-48.65	≤ -41.20	46.55	≤ 54	PASS
				AV	2390.000	-48.73	≤ -41.20	46.47	≤ 54	PASS
				Peak	2310.000	-46.85	≤ -21.20	48.35	≤ 74	PASS
				Peak	2386.520	-38.89	≤ -21.20	56.31	≤ 74	PASS
				Peak	2390.000	-45.38	≤ -21.20	49.82	≤ 74	PASS
		High	2480	AV	2483.500	-48.62	≤ -41.20	46.58	≤ 54	PASS
				AV	2496.000	-48.6	≤ -41.20	46.60	≤ 54	PASS
				AV	2500.000	-48.78	≤ -41.20	46.42	≤ 54	PASS
				Peak	2483.500	-41.86	≤ -21.20	53.34	≤ 74	PASS
				Peak	2495.600	-40.5	≤ -21.20	54.70	≤ 74	PASS
				Peak	2500.000	-43.06	≤ -21.20	52.14	≤ 74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.44	≤ -21.20	54.76	≤ 74	PASS
				Peak	2354.810	-38.3	≤ -21.20	56.90	≤ 74	PASS
				Peak	2390.000	-40.71	≤ -21.20	54.49	≤ 74	PASS
		High	Hop_24 80	Peak	2483.500	-39.5	≤ -21.20	55.70	≤ 74	PASS
				Peak	2493.120	-38.37	≤ -21.20	56.83	≤ 74	PASS
				Peak	2500.000	-40.46	≤ -21.20	54.74	≤ 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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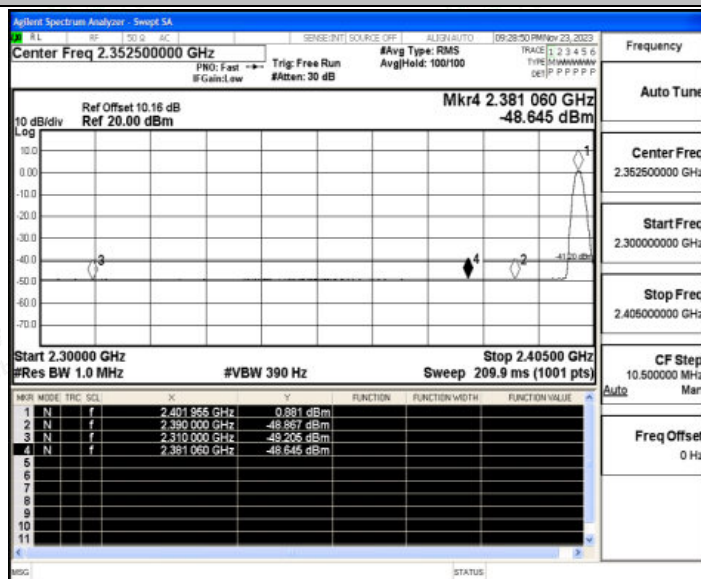
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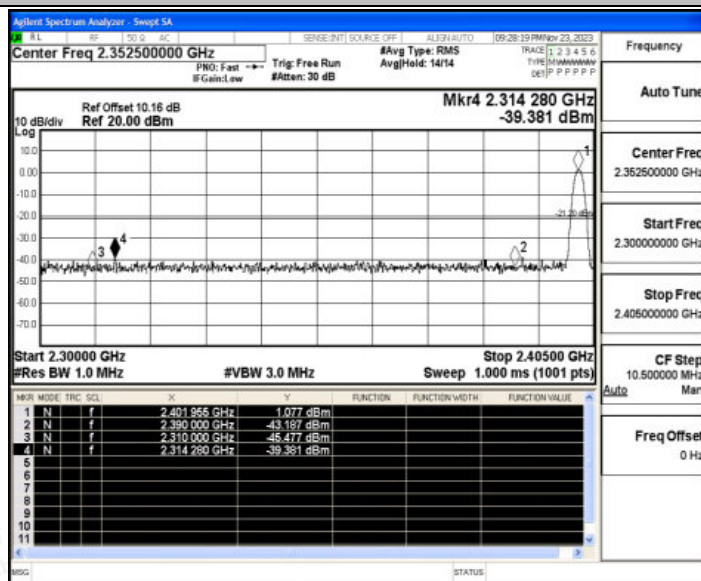


Test Graphs

DH5_Ant1_Low_2402_AV



DH5_Ant1_Low_2402_Peak



DH5_Ant1_High_2480_AV

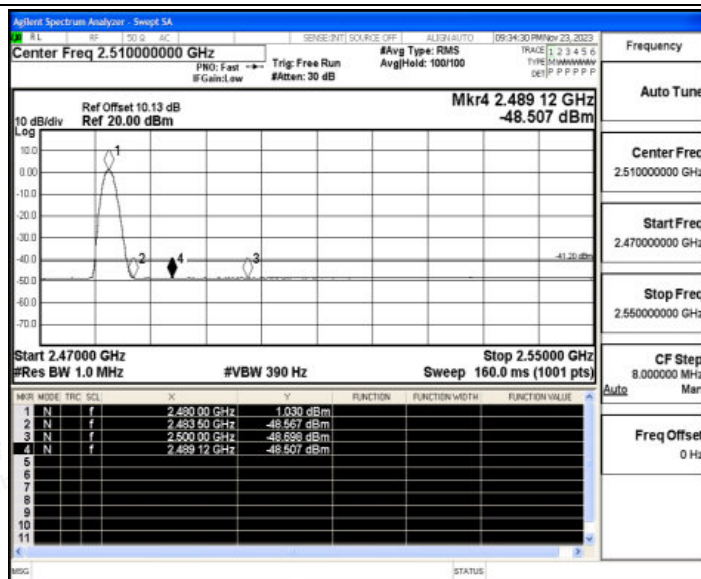


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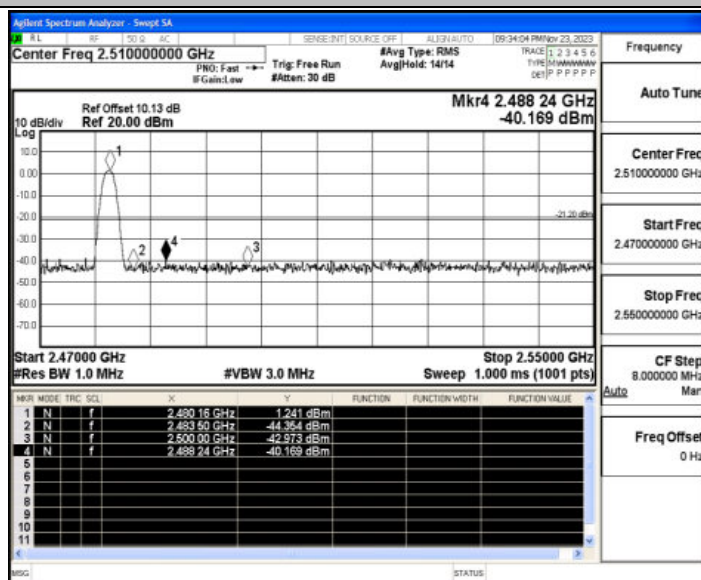
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DH5_Ant1_High_2480_Peak



DH5_Ant1_Low_Hop_2402_Peak

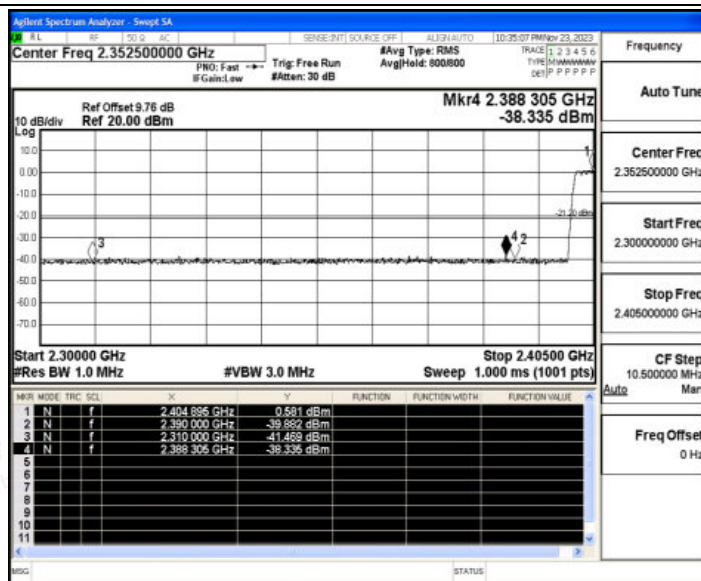


Shenzhen LCS Compliance Testing Laboratory Ltd.

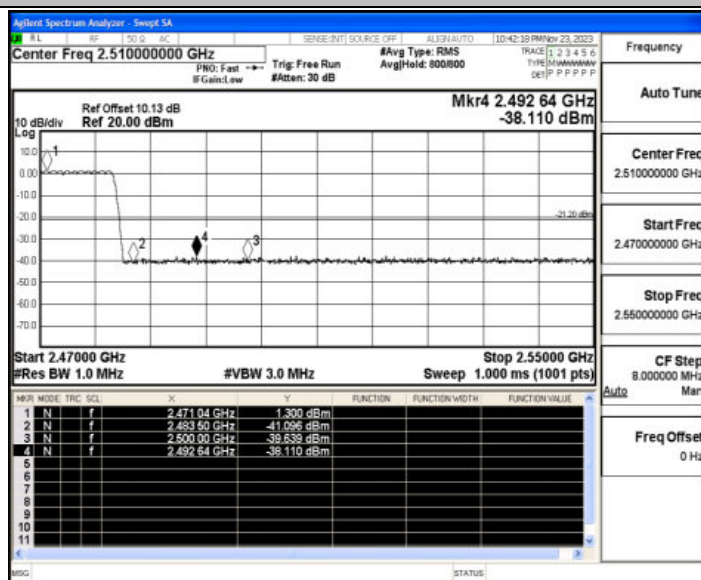
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DH5_Ant1_High_Hop_2480_Peak



2DH5_Ant1_Low_2402_AV

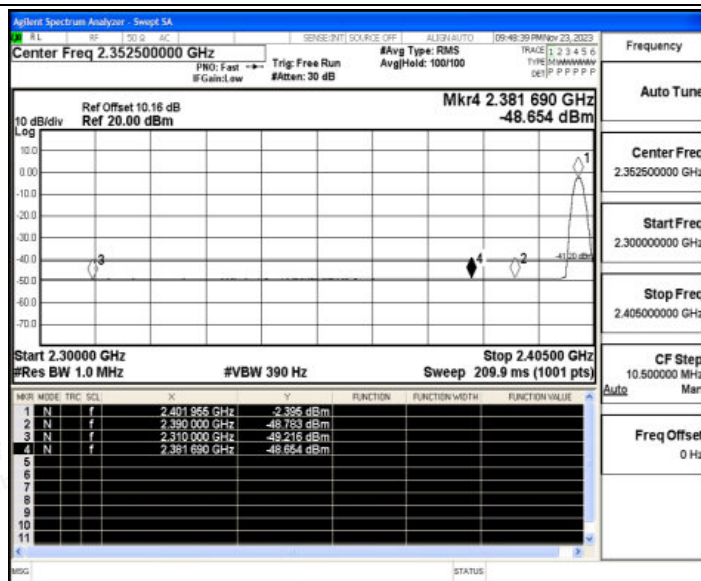


Shenzhen LCS Compliance Testing Laboratory Ltd.

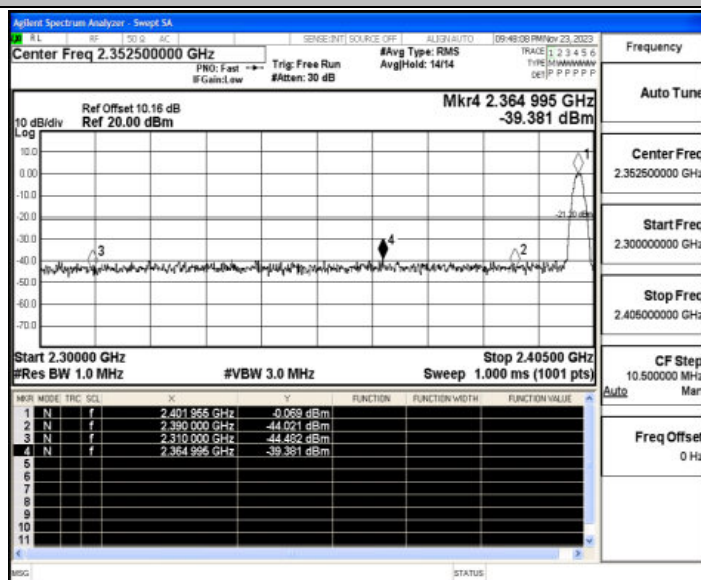
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2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

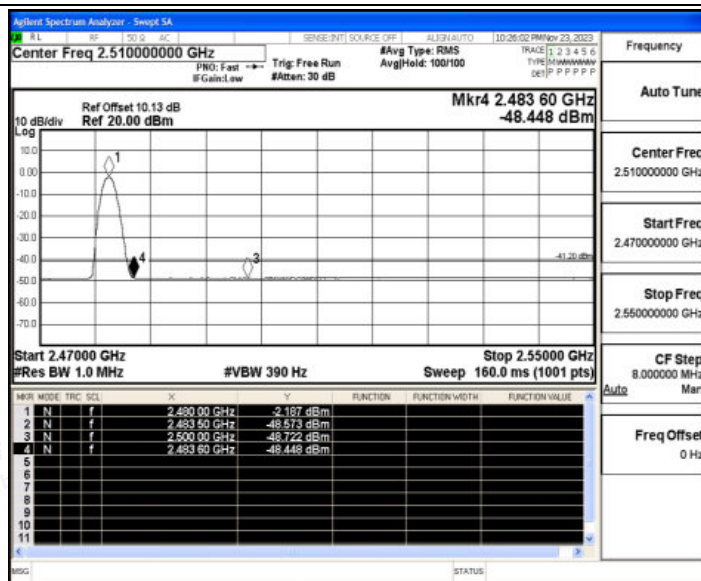


Shenzhen LCS Compliance Testing Laboratory Ltd.

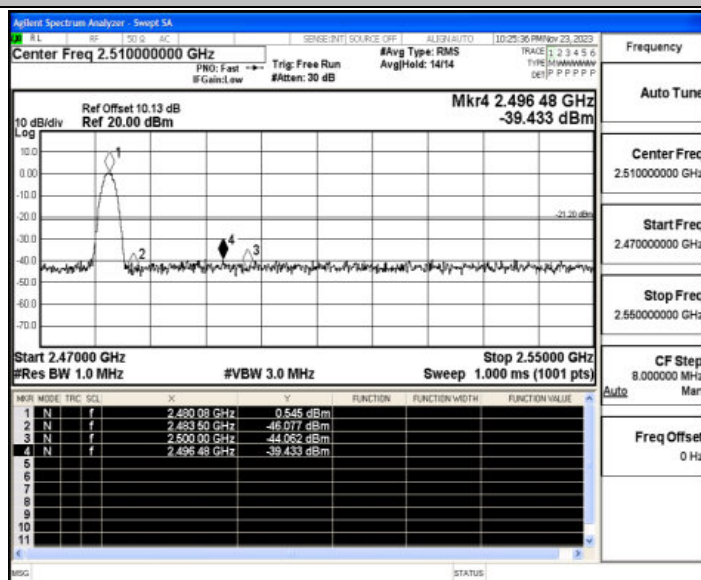
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2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak

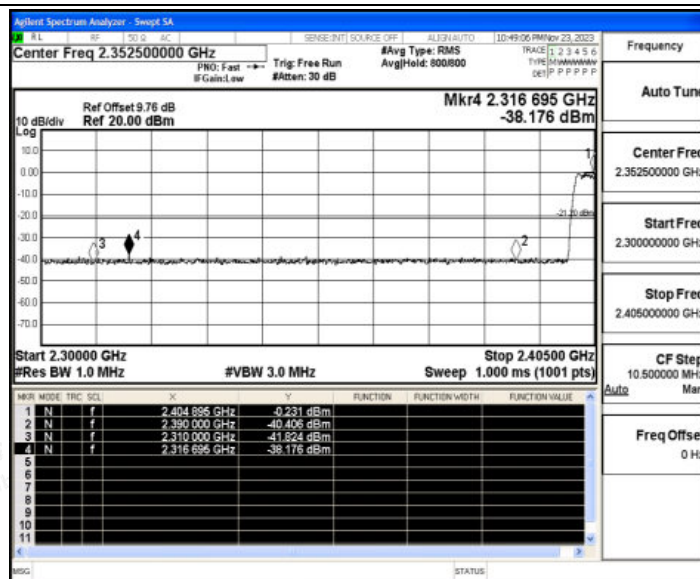


Shenzhen LCS Compliance Testing Laboratory Ltd.

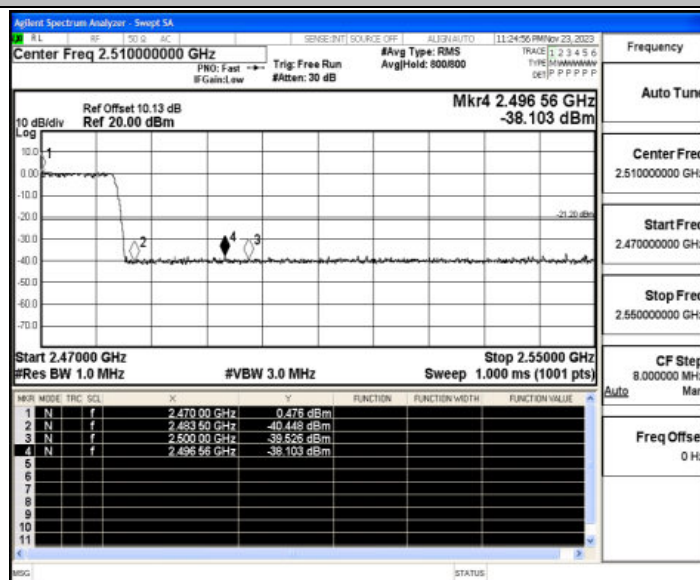
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2DH5_Ant1_High_Hop_2480_Peak



3DH5_Ant1_Low_2402_AV

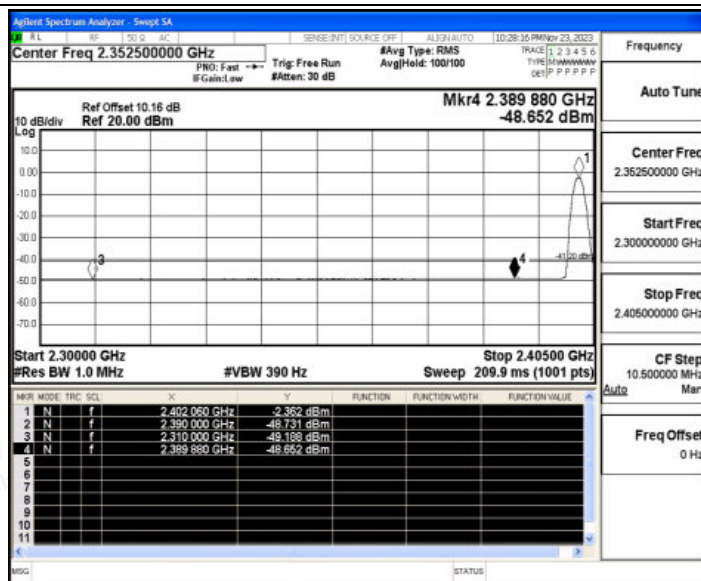


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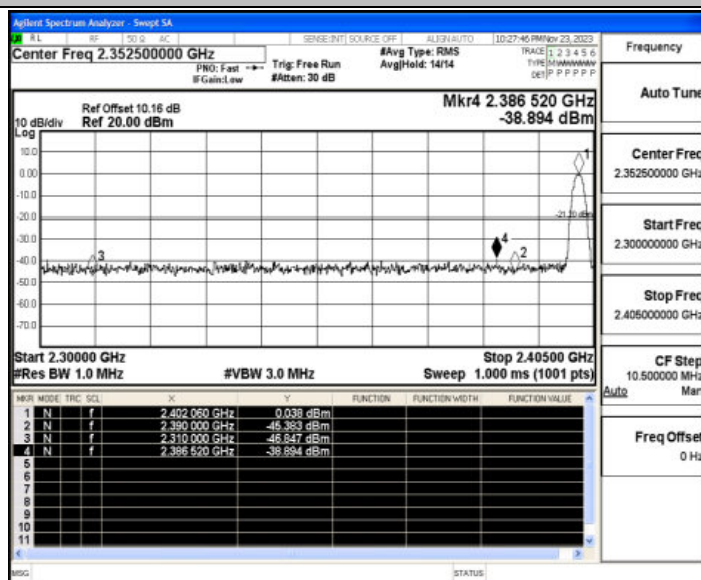
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3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV

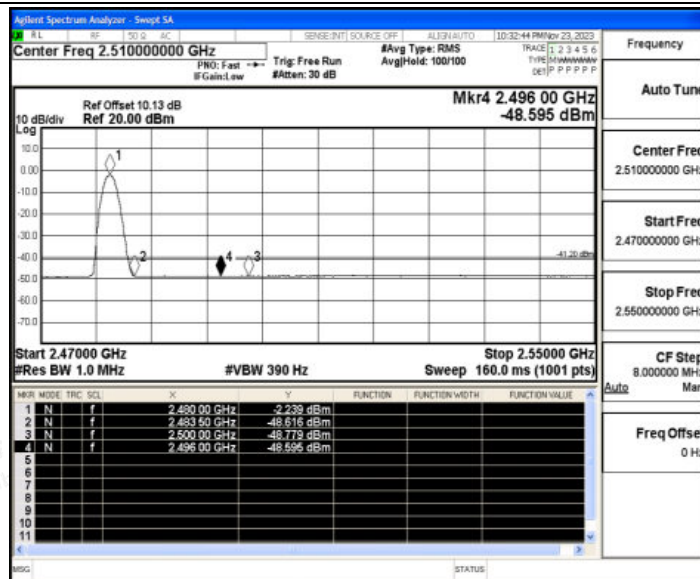


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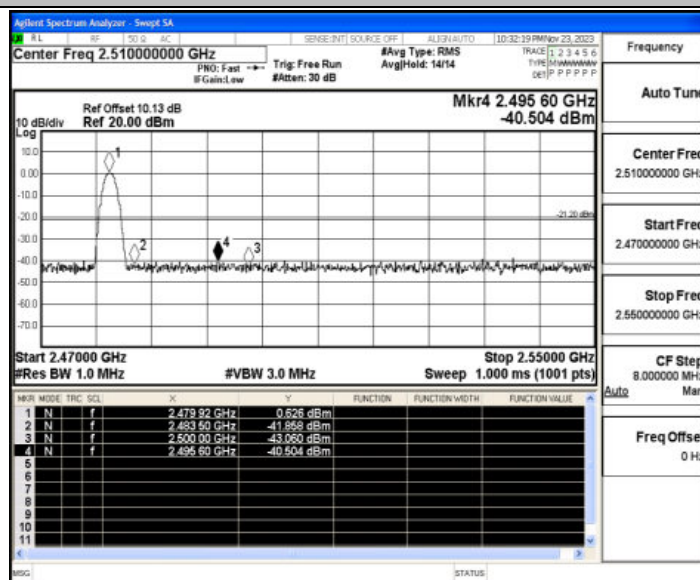
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3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak

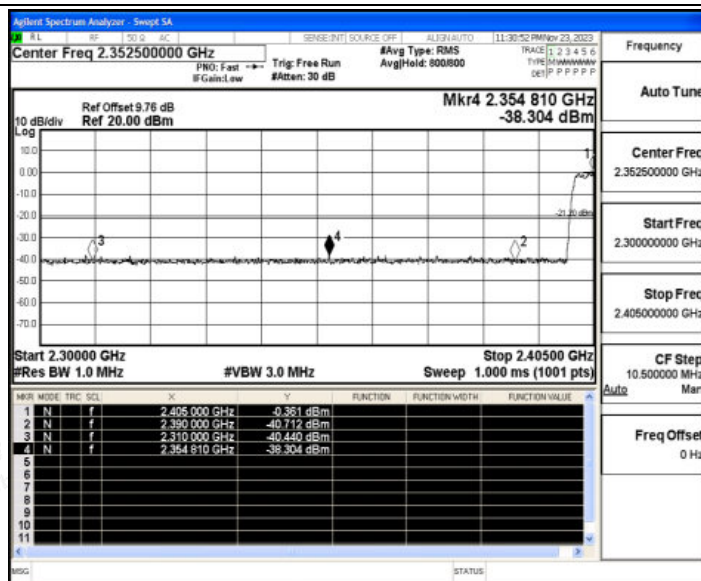


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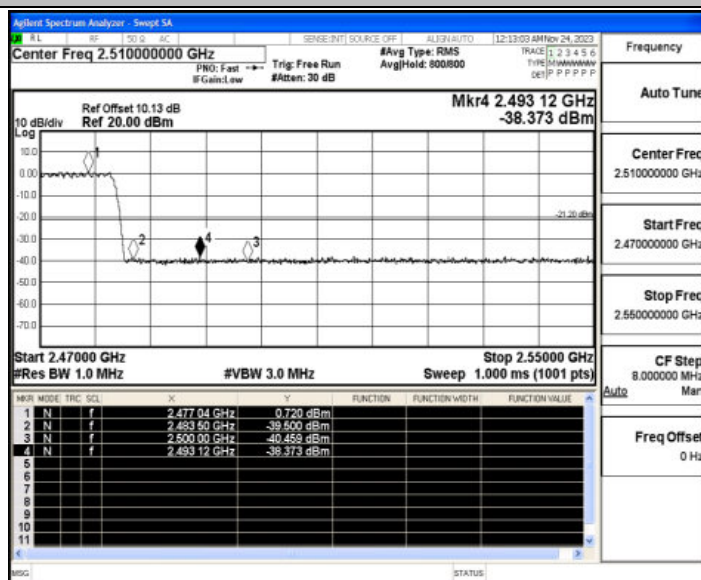
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3DH5_Ant1_High_Hop_2480_Peak



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