



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: wireless headphones

Test Model: AKB3518E500T

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Monkey Li
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]	Verdict
DH5	Ant1	2402	1.026	2401.463	2402.489	---
		2441	1.011	2440.469	2441.480	---
		2480	0.957	2479.526	2480.483	---
2DH5	Ant1	2402	1.332	2401.322	2402.654	---
		2441	1.293	2440.355	2441.648	---
		2480	1.281	2479.352	2480.633	---
3DH5	Ant1	2402	1.305	2401.340	2402.645	---
		2441	1.305	2440.340	2441.645	---
		2480	1.332	2479.322	2480.654	---



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Test Graphs

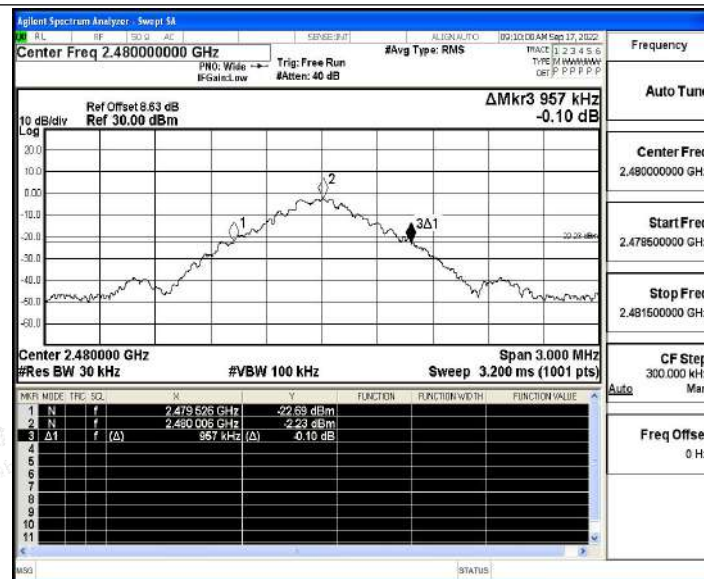


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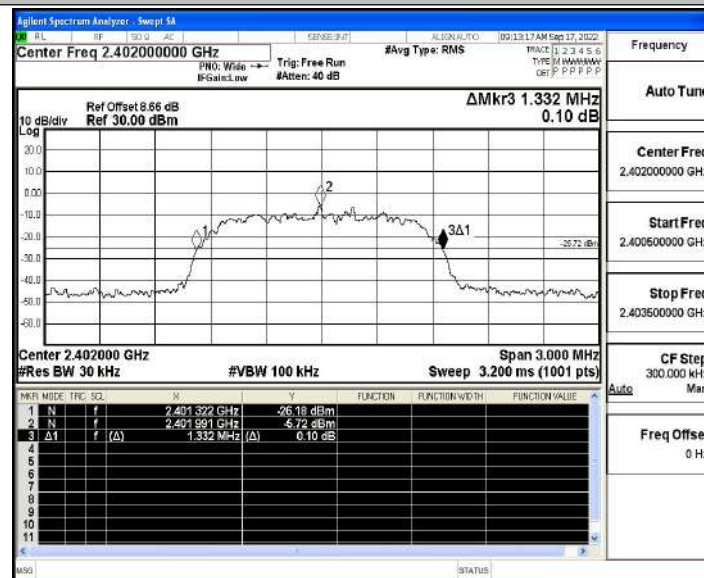
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2DH5_Ant1_2402



2DH5_Ant1_2441

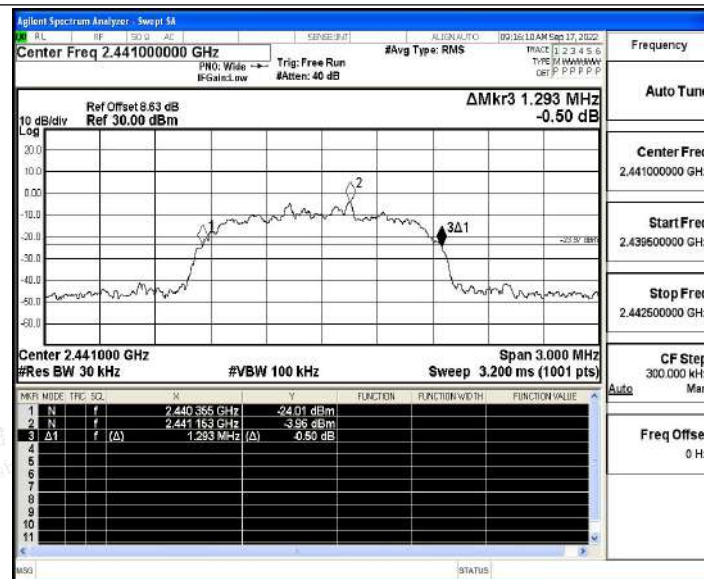


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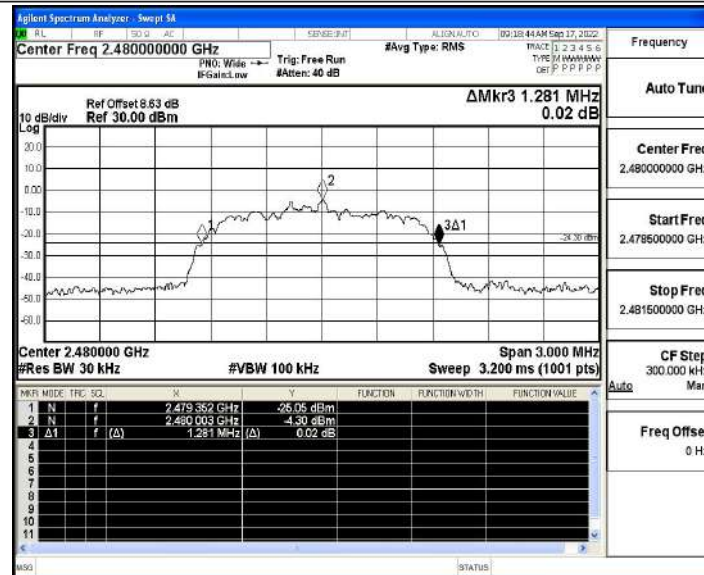
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_2480



3DH5_Ant1_2402

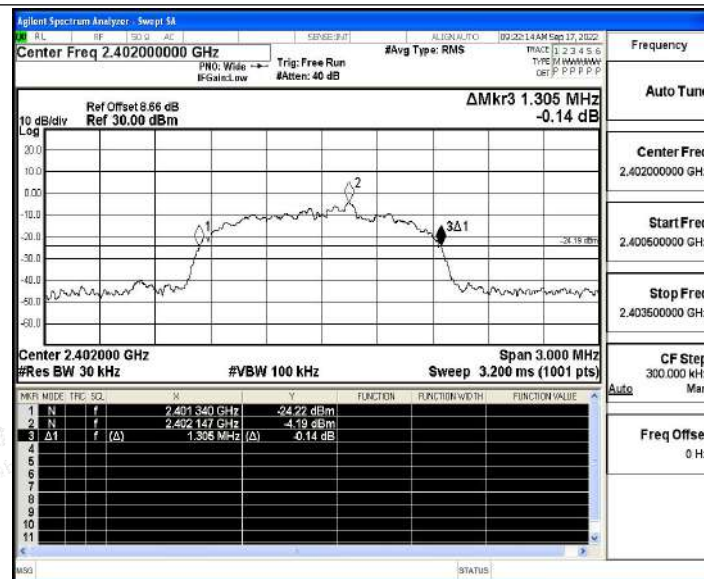


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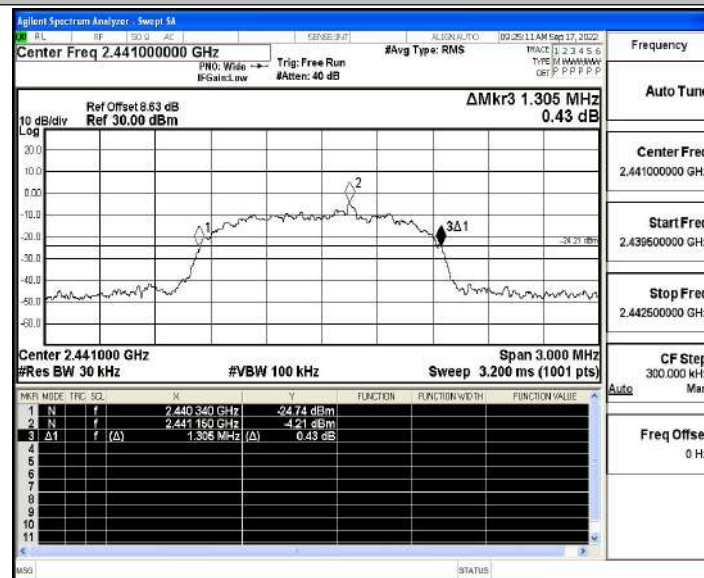
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3DH5_Ant1_2441



3DH5_Ant1_2480

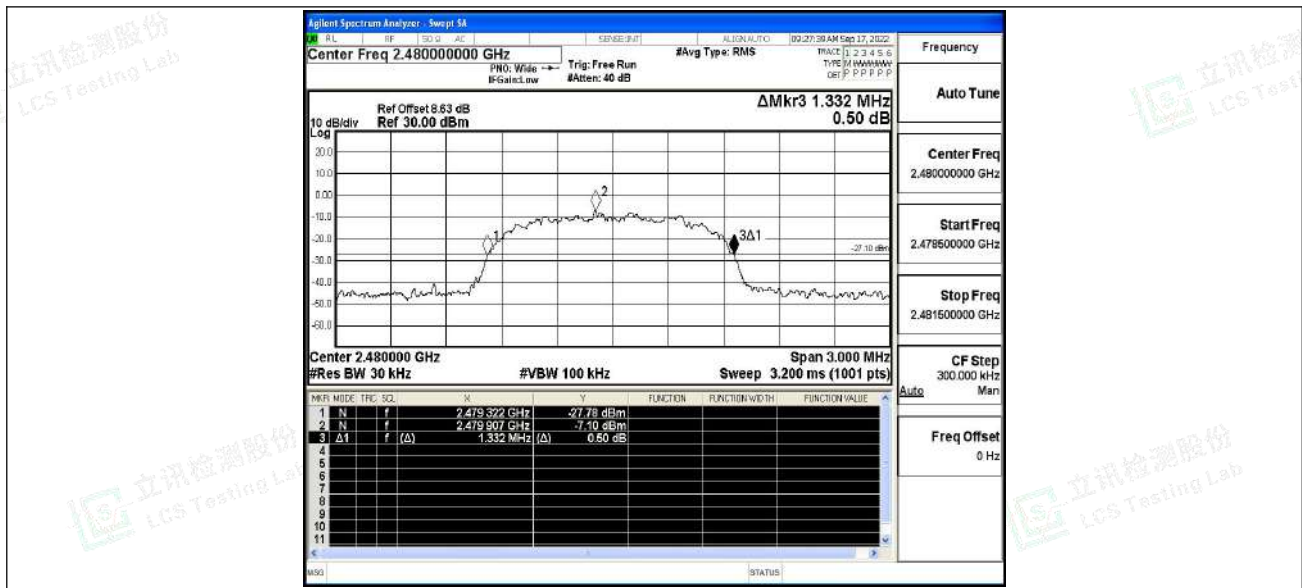


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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.89	≤20.97	PASS
		2441	0.88	≤20.97	PASS
		2480	0.83	≤20.97	PASS
2DH5	Ant1	2402	0.55	≤20.97	PASS
		2441	0.7	≤20.97	PASS
		2480	0.46	≤20.97	PASS
3DH5	Ant1	2402	0.68	≤20.97	PASS
		2441	0.68	≤20.97	PASS
		2480	0.52	≤20.97	PASS



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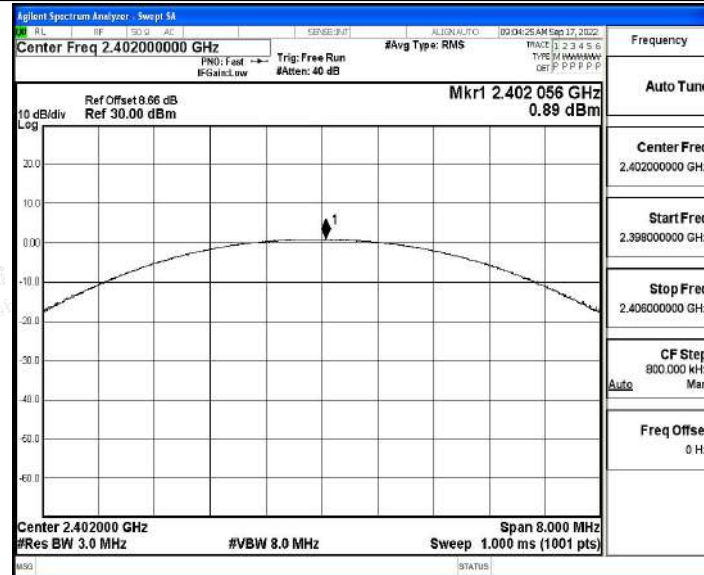
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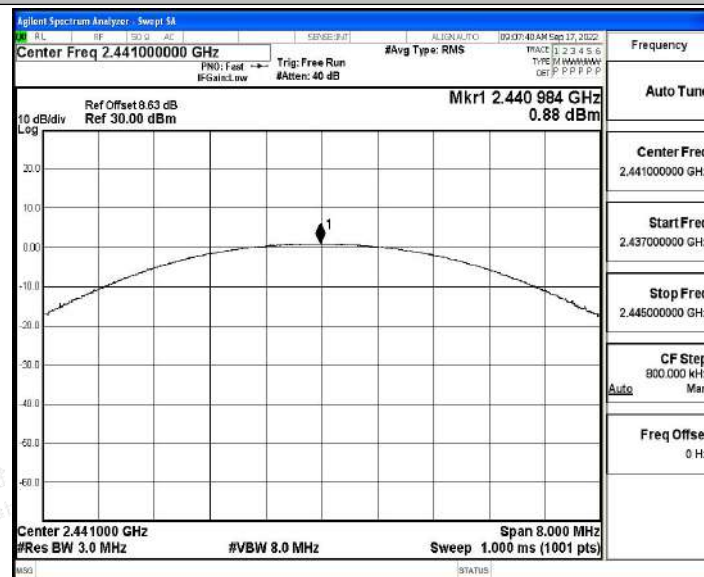


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

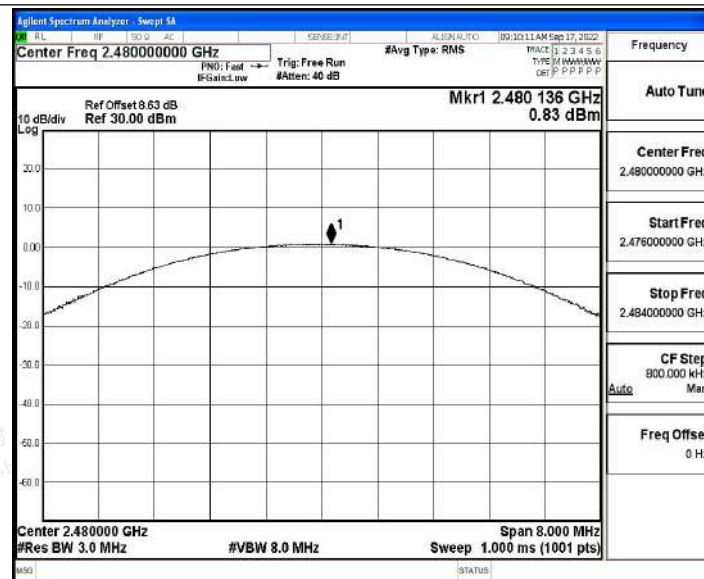


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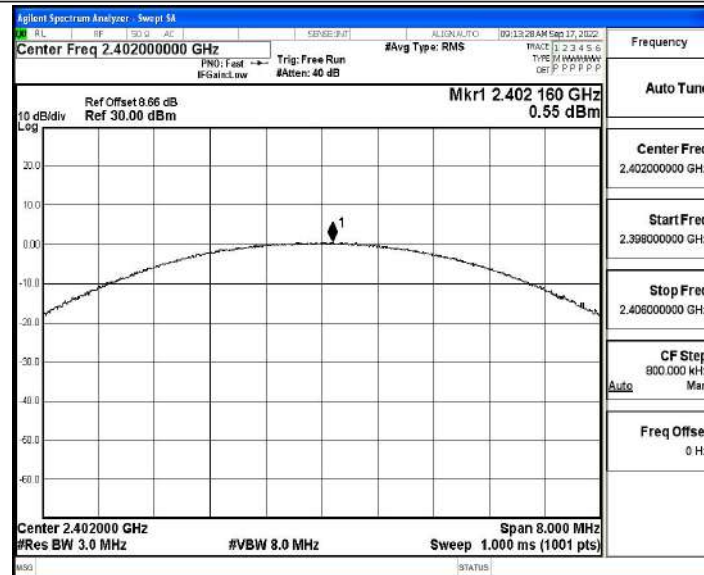
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2DH5_Ant1_2402



2DH5_Ant1_2441

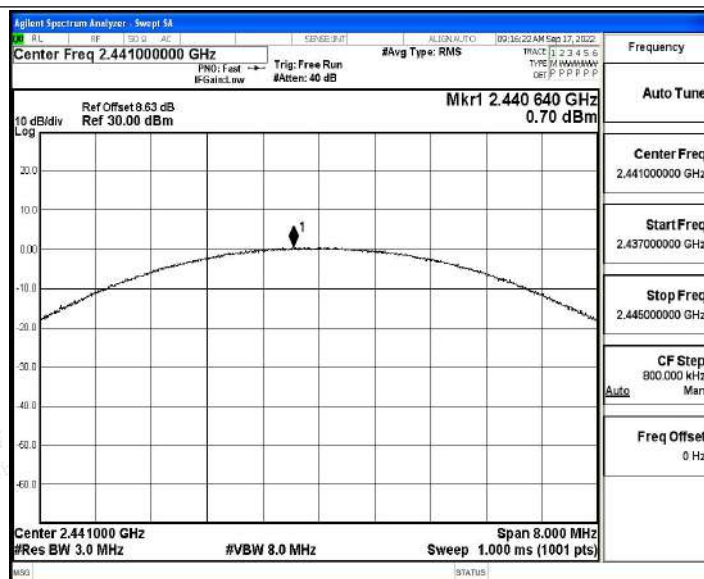


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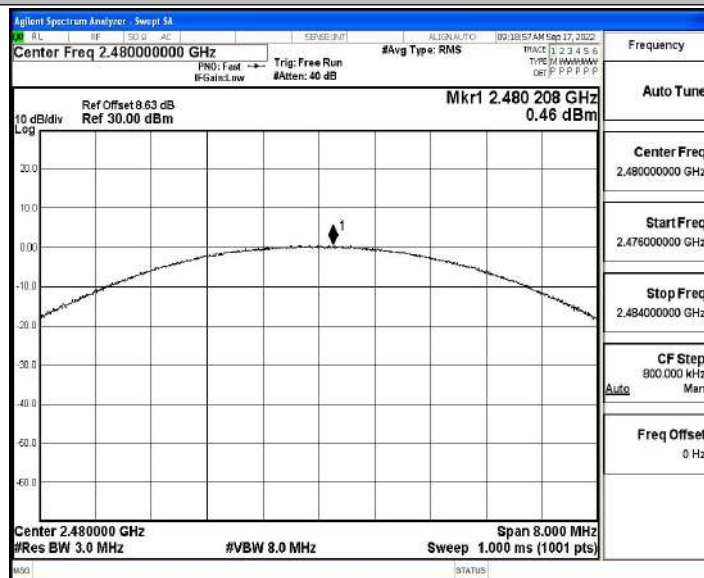
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2DH5_Ant1_2480



3DH5_Ant1_2402

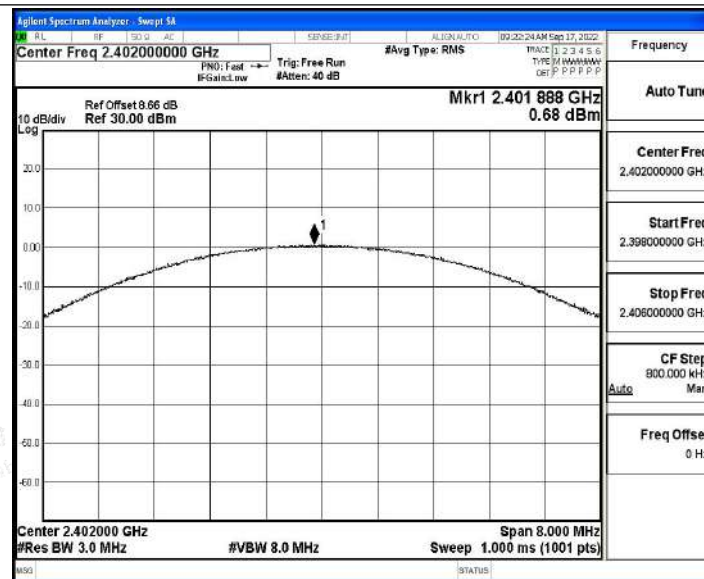


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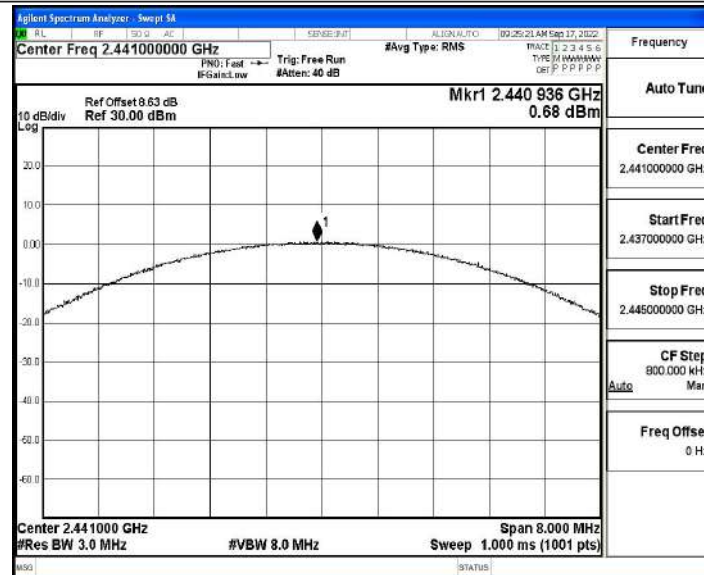
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3DH5_Ant1_2441



3DH5_Ant1_2480

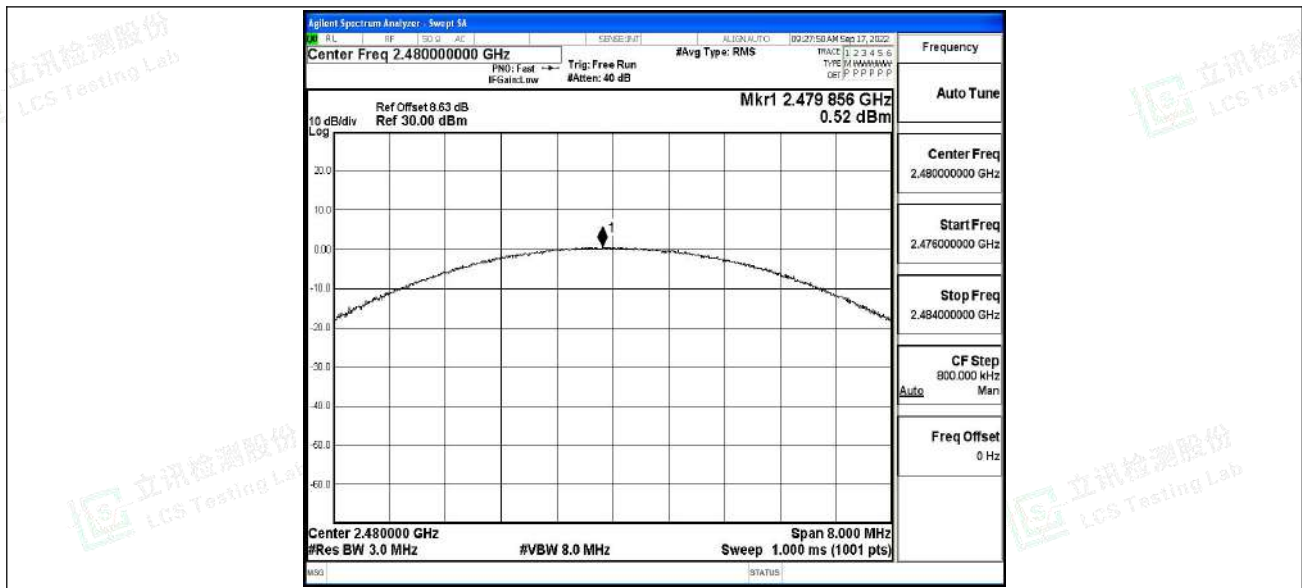


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A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.138	≥ 0.684	PASS
2DH5	Ant1	Hop	1.114	≥ 0.888	PASS
3DH5	Ant1	Hop	1.304	≥ 0.888	PASS



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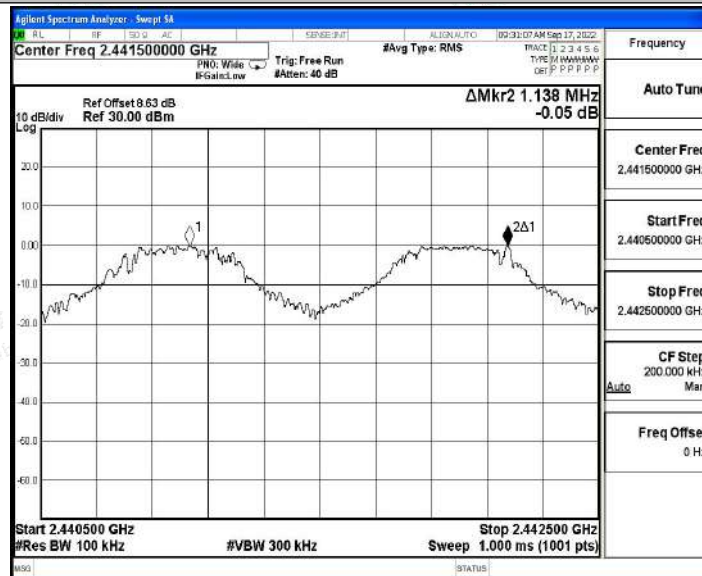
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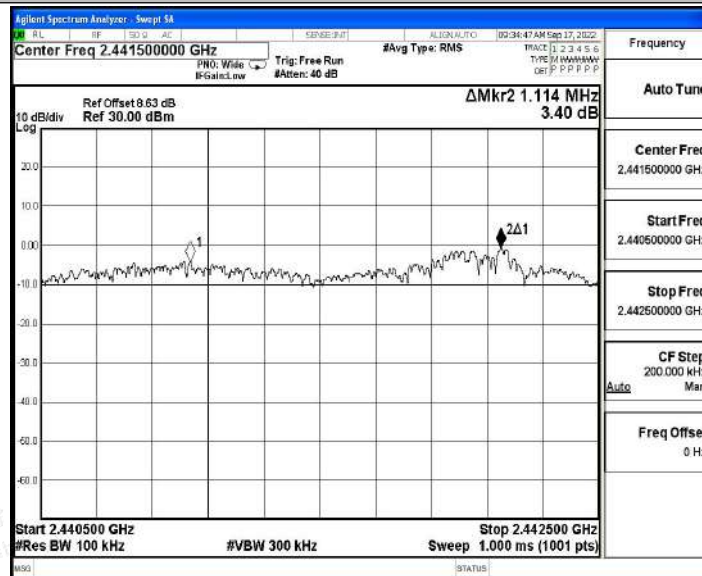


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

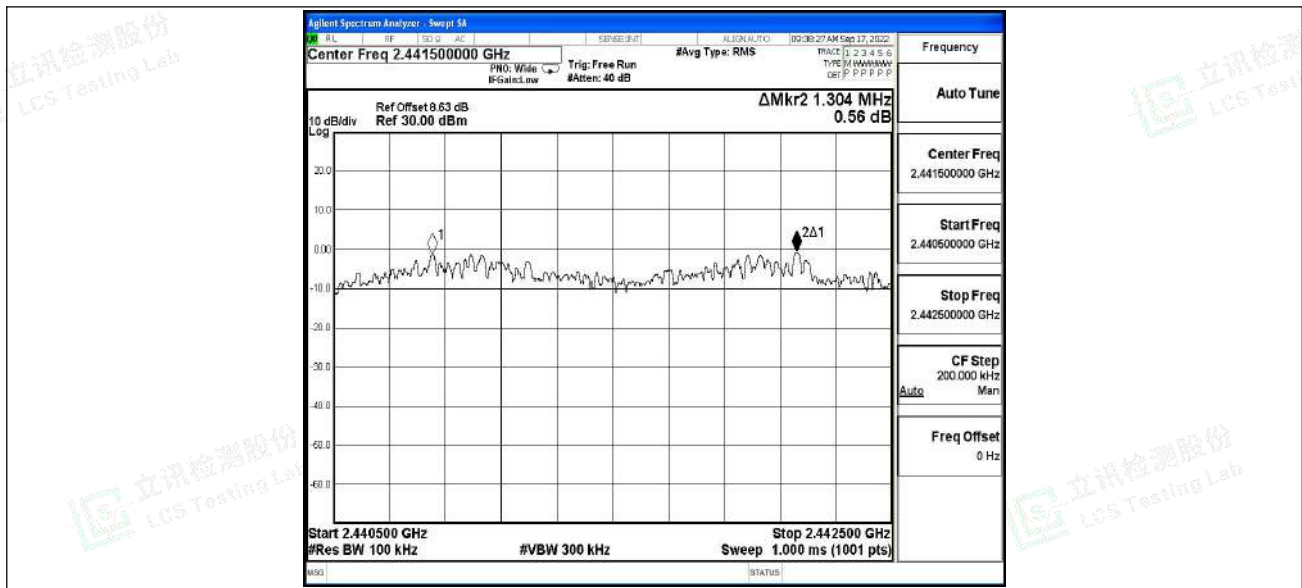


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A.4 Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS



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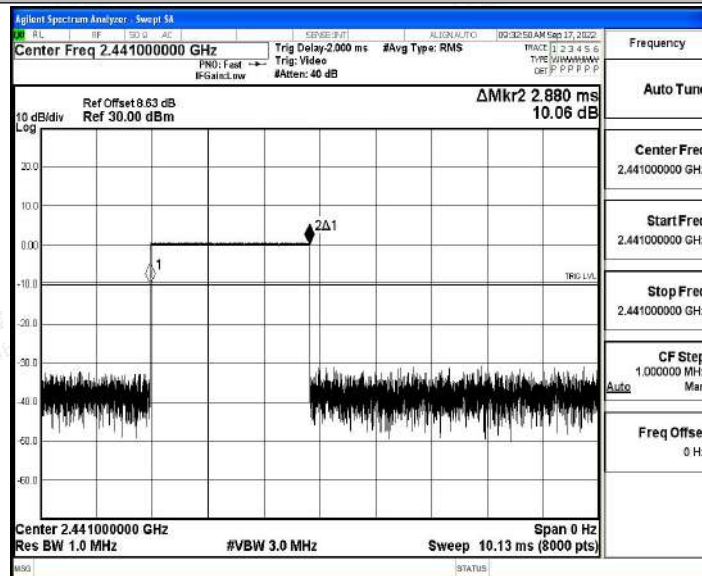
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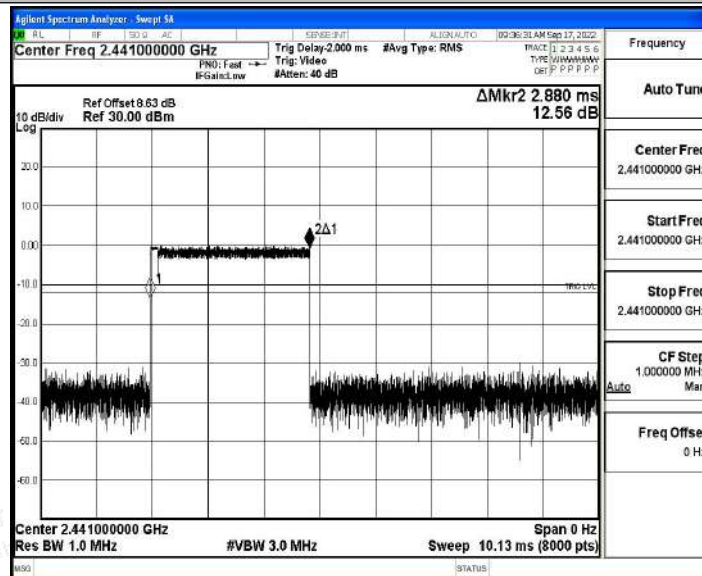


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

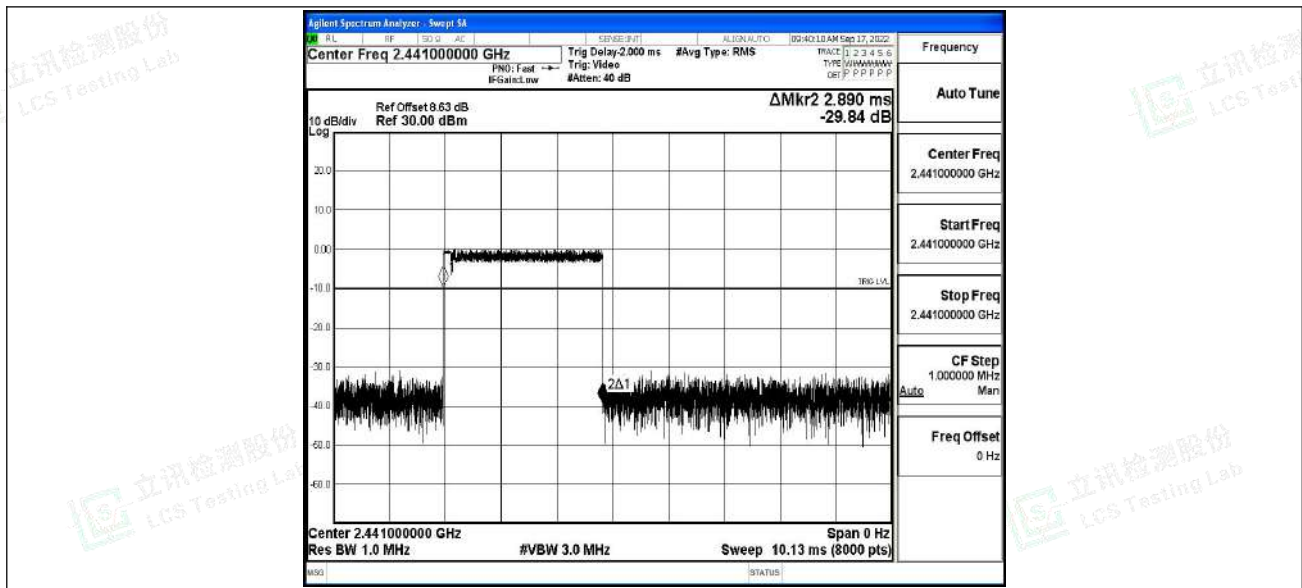


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A.5 Number of hopping channels

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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Test Graphs

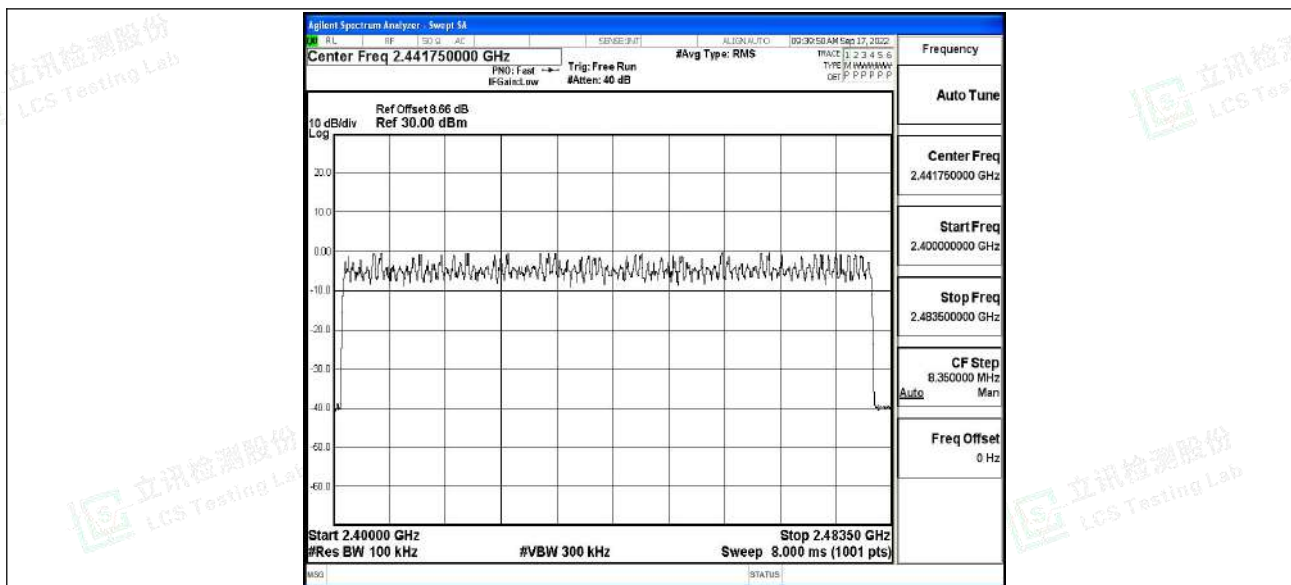


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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.54	-58.32	≤ -20.54	PASS
		High	2480	0.05	-57.94	≤ -19.95	PASS
		Low	Hop_2402	-0.42	-58.95	≤ -20.42	PASS
		High	Hop_2480	0.22	-57.97	≤ -19.78	PASS
2DH5	Ant1	Low	2402	-5.03	-58.53	≤ -25.03	PASS
		High	2480	-0.92	-58.95	≤ -20.92	PASS
		Low	Hop_2402	-1.13	-58.68	≤ -21.13	PASS
		High	Hop_2480	-0.61	-56.41	≤ -20.61	PASS
3DH5	Ant1	Low	2402	-4.38	-57.16	≤ -24.38	PASS
		High	2480	-4.88	-59.09	≤ -24.88	PASS
		Low	Hop_2402	-2.73	-58.75	≤ -22.73	PASS
		High	Hop_2480	-1.06	-57.49	≤ -21.06	PASS



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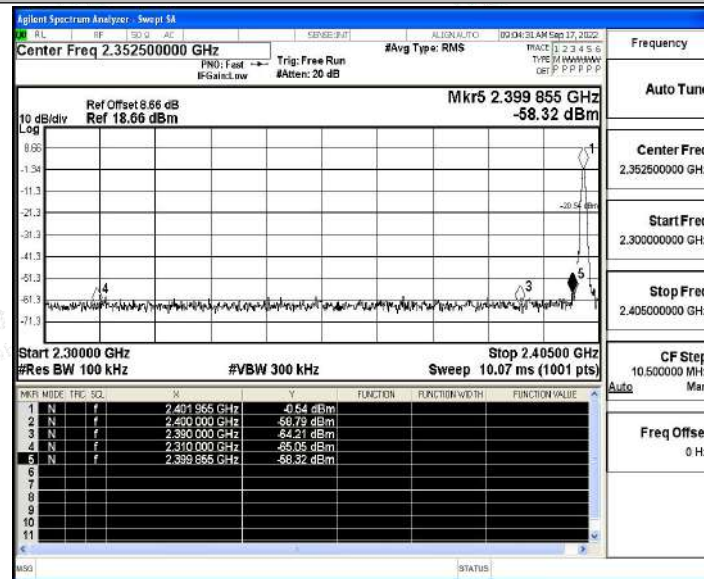
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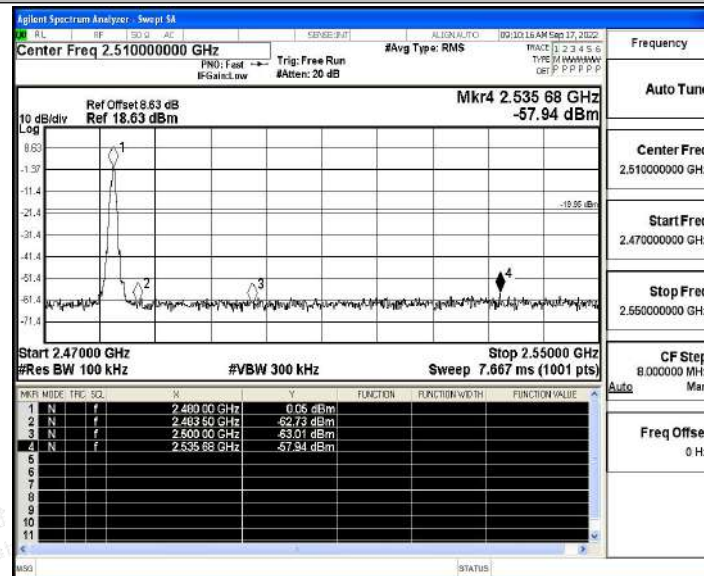


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

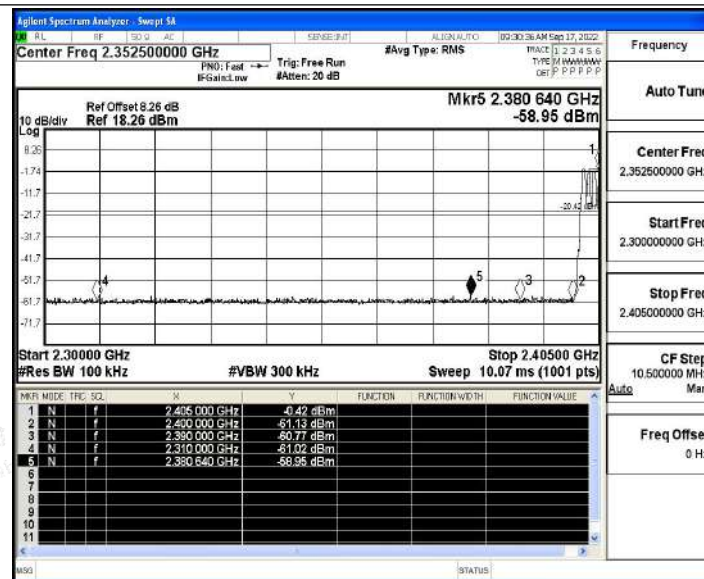


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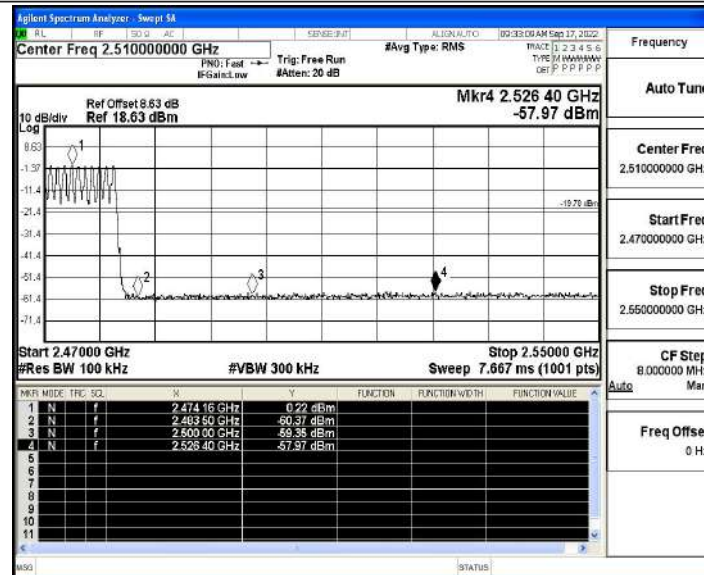
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

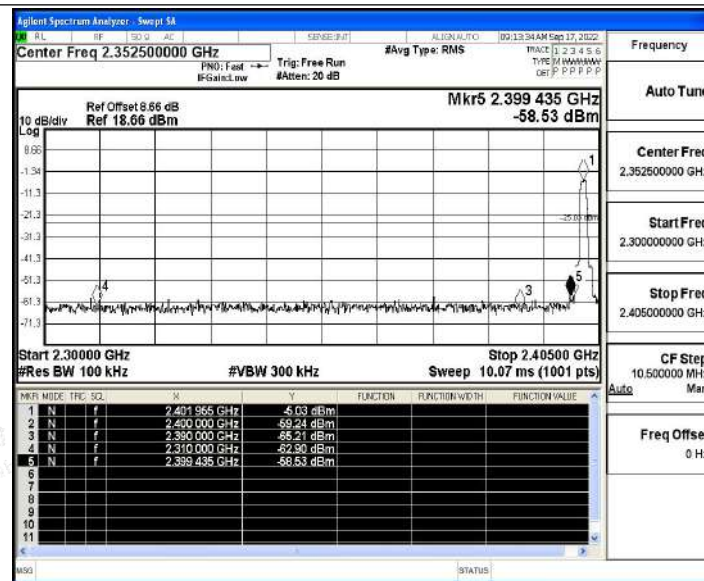


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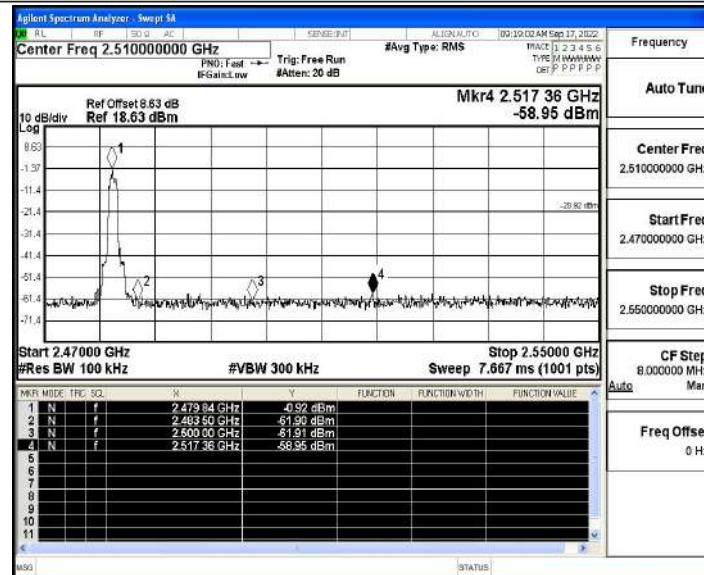
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

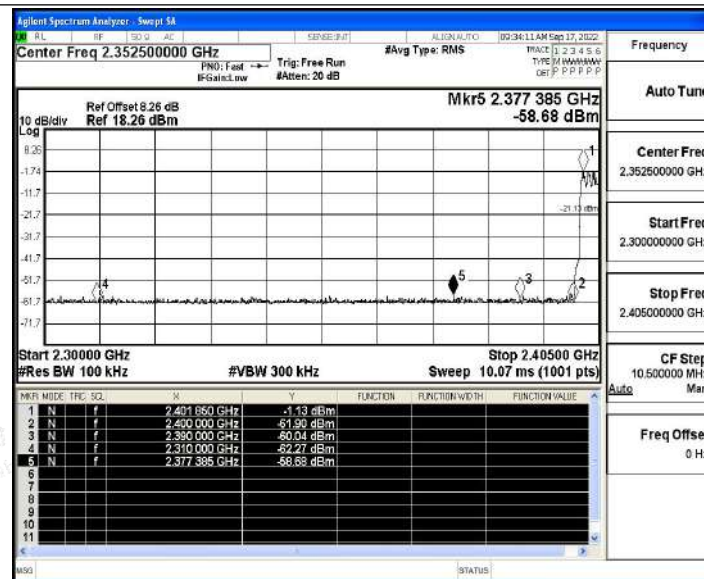


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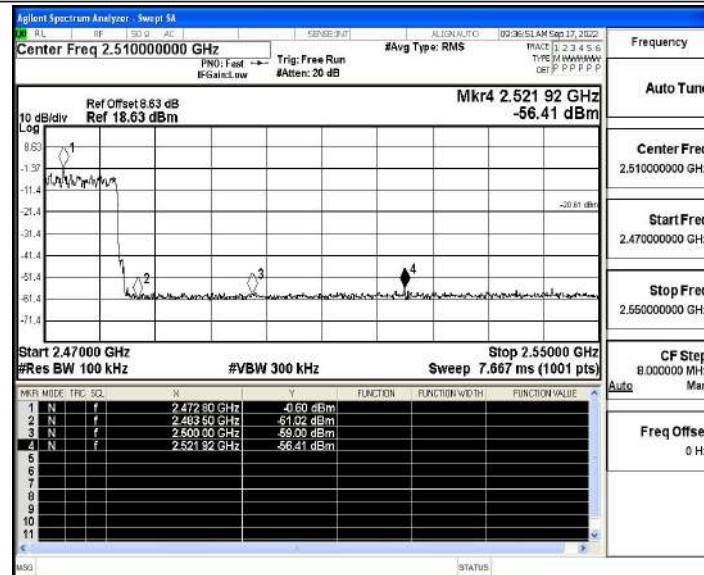
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

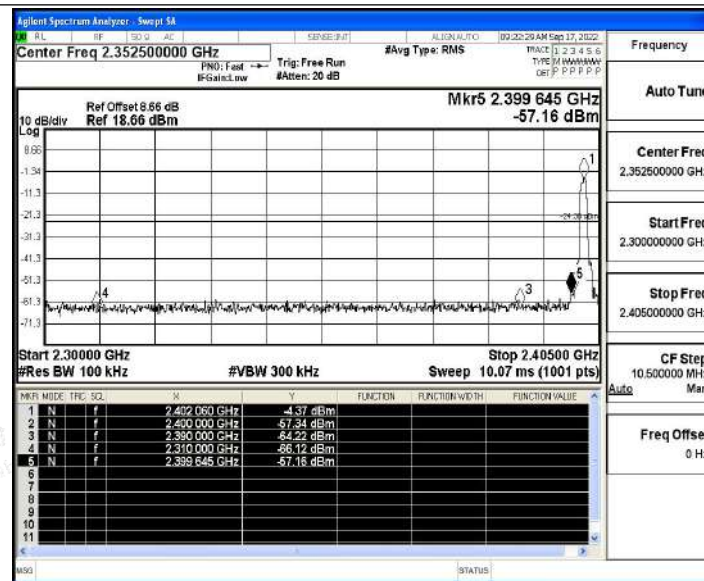


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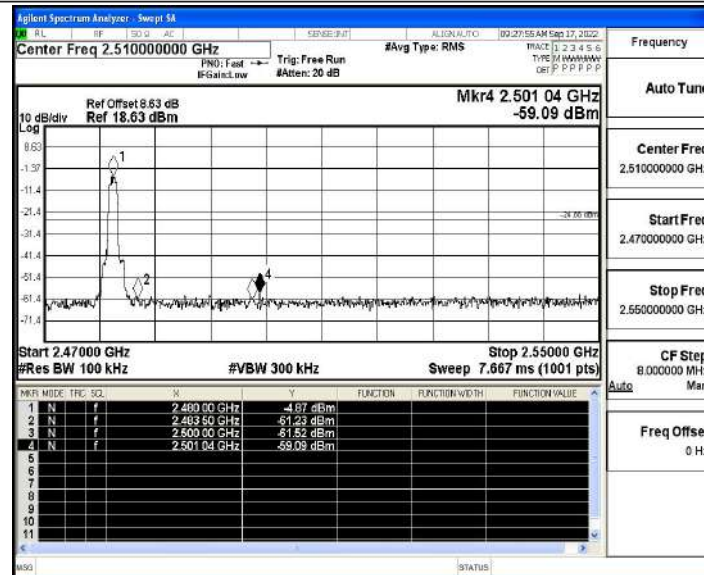
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

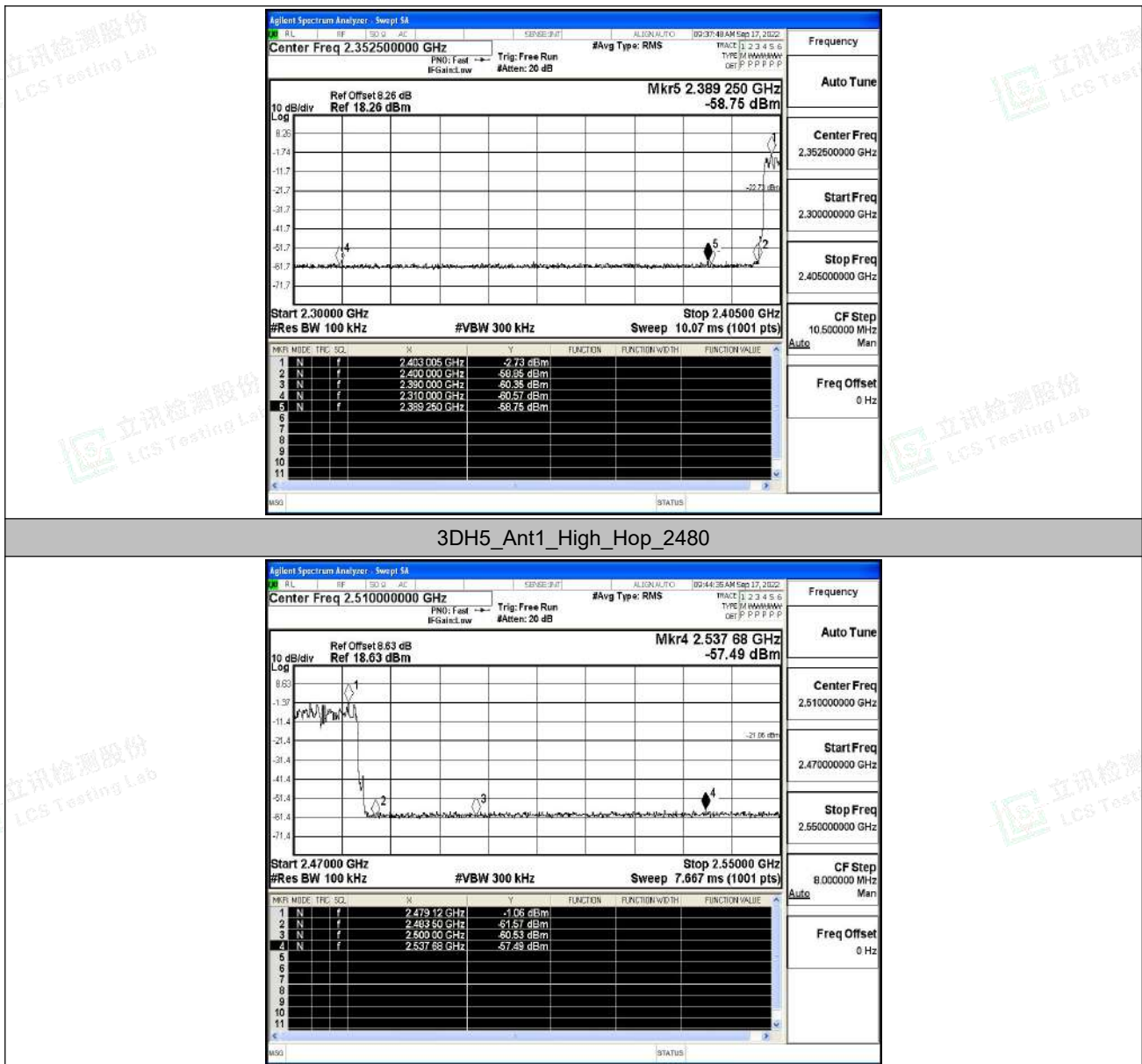


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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.18	-0.18	---	PASS
			30~1000	-0.18	-60.47	≤ -20.18	PASS
			1000~26500	-0.18	-46.08	≤ -20.18	PASS
		2441	Reference	-0.49	-0.49	---	PASS
			30~1000	-0.49	-60.65	≤ -20.49	PASS
			1000~26500	-0.49	-46.35	≤ -20.49	PASS
		2480	Reference	-0.35	-0.35	---	PASS
			30~1000	-0.35	-60.68	≤ -20.35	PASS
			1000~26500	-0.35	-44.54	≤ -20.35	PASS
2DH5	Ant1	2402	Reference	-1.46	-1.46	---	PASS
			30~1000	-1.46	-60.93	≤ -21.46	PASS
			1000~26500	-1.46	-45.09	≤ -21.46	PASS
		2441	Reference	-4.31	-4.31	---	PASS
			30~1000	-4.31	-60.99	≤ -24.31	PASS
			1000~26500	-4.31	-45.32	≤ -24.31	PASS
		2480	Reference	-5.38	-5.38	---	PASS
			30~1000	-5.38	-60.85	≤ -25.38	PASS
			1000~26500	-5.38	-44.85	≤ -25.38	PASS
3DH5	Ant1	2402	Reference	-3.62	-3.62	---	PASS
			30~1000	-3.62	-61.11	≤ -23.62	PASS
			1000~26500	-3.62	-46.33	≤ -23.62	PASS
		2441	Reference	-4.64	-4.64	---	PASS
			30~1000	-4.64	-60.09	≤ -24.64	PASS
			1000~26500	-4.64	-45.21	≤ -24.64	PASS
		2480	Reference	-4.30	-4.30	---	PASS
			30~1000	-4.30	-60.67	≤ -24.3	PASS
			1000~26500	-4.30	-45.63	≤ -24.3	PASS



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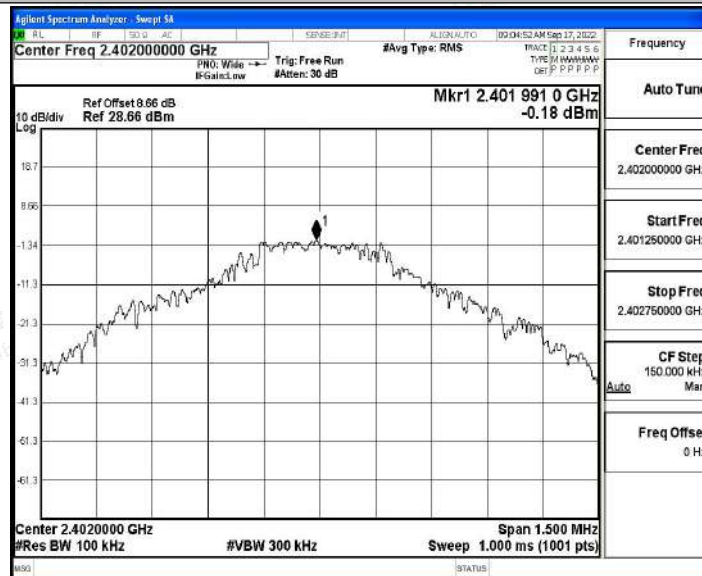
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

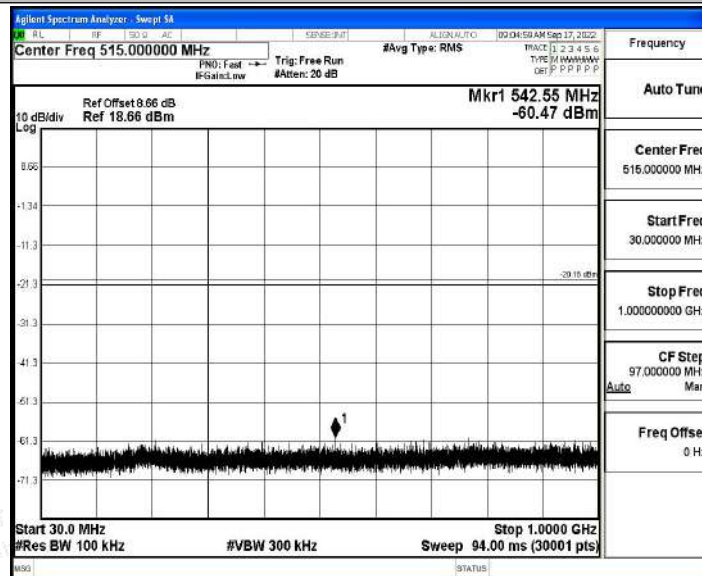


Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

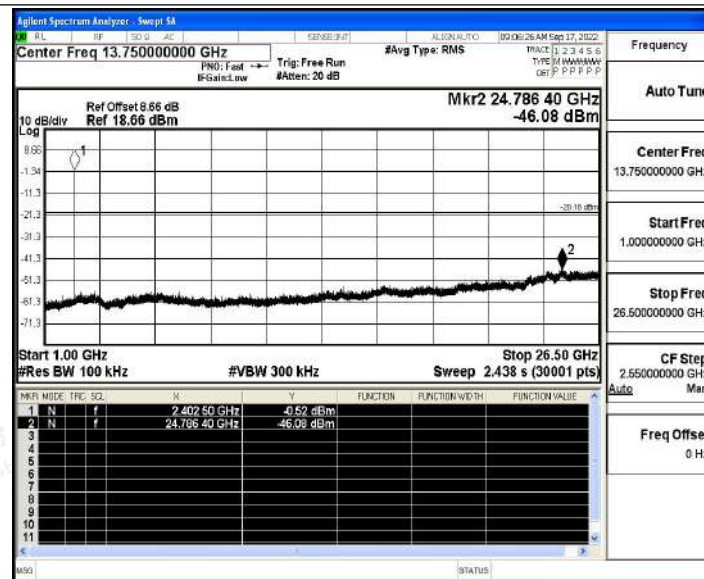


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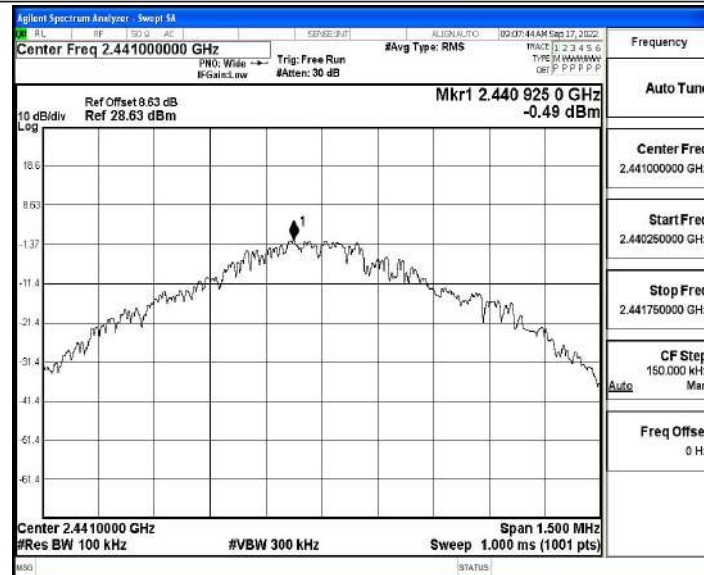
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

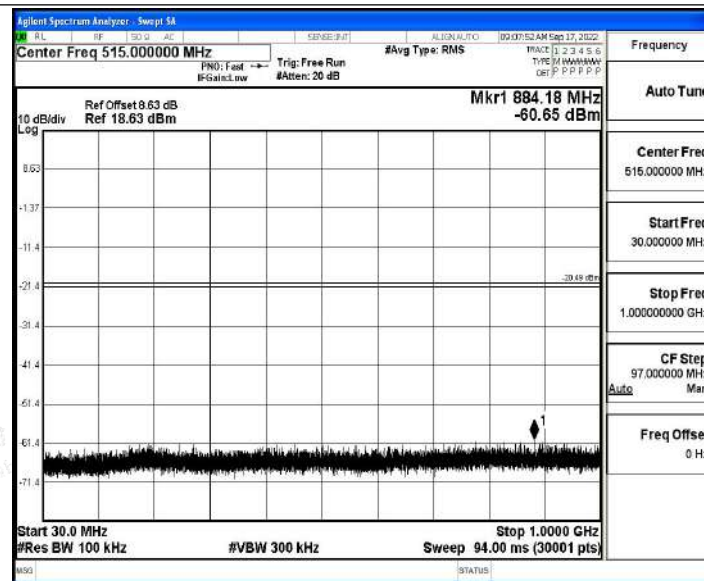


Shenzhen LCS Compliance Testing Laboratory Ltd.

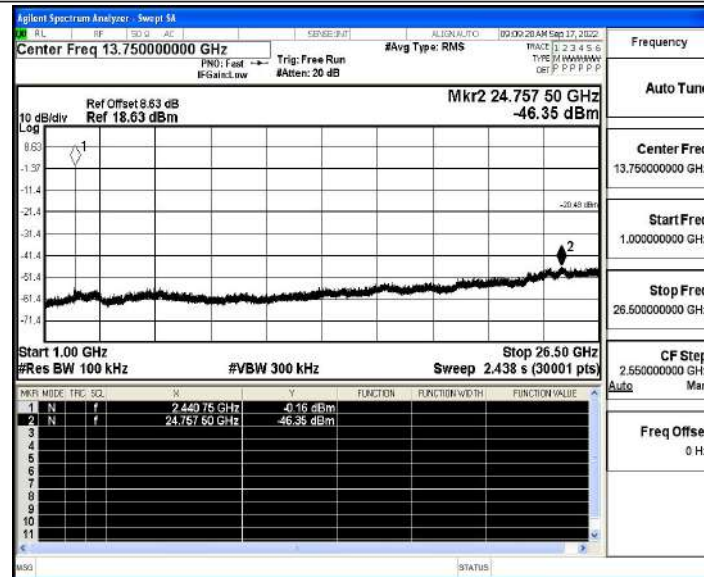
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference

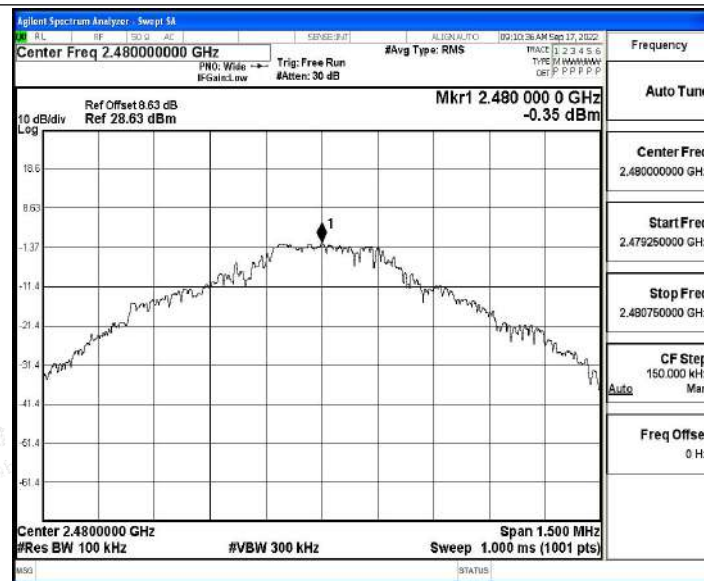


Shenzhen LCS Compliance Testing Laboratory Ltd.

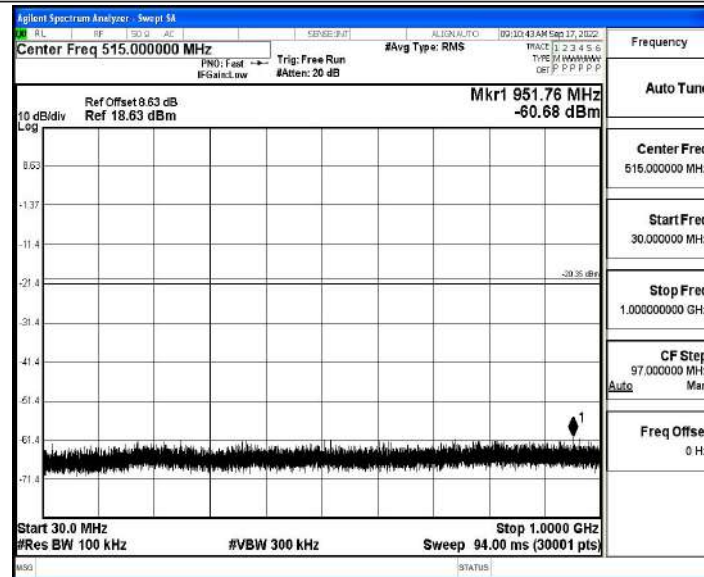
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

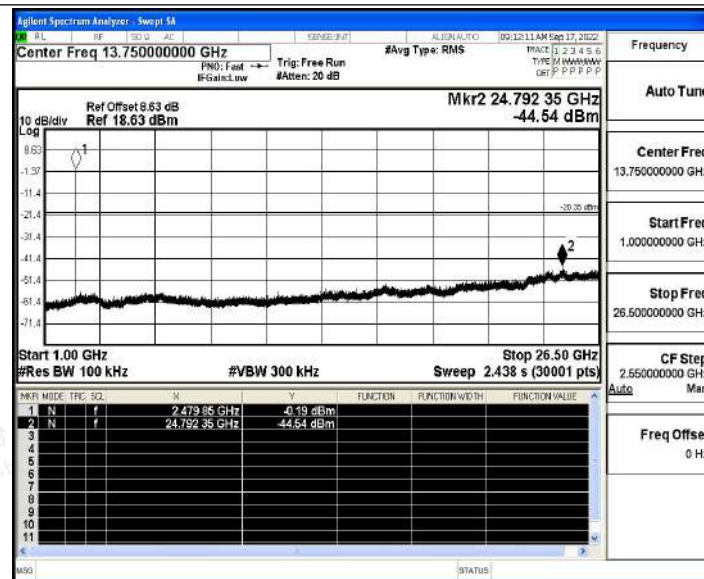


Shenzhen LCS Compliance Testing Laboratory Ltd.

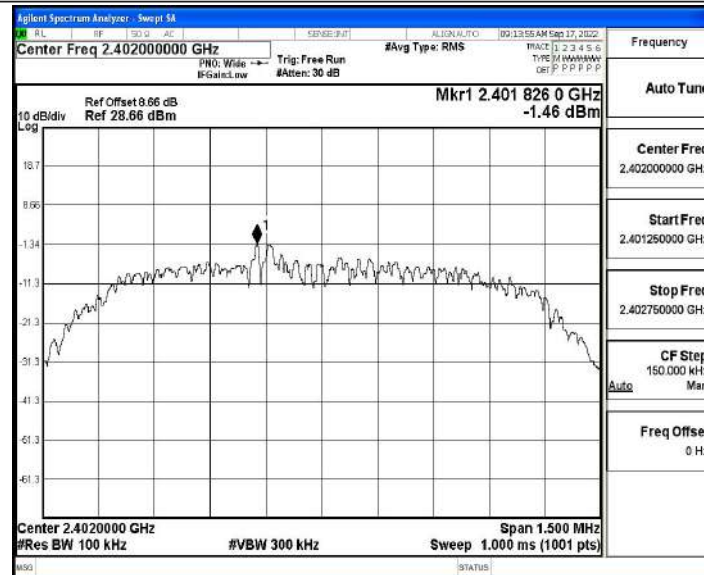
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

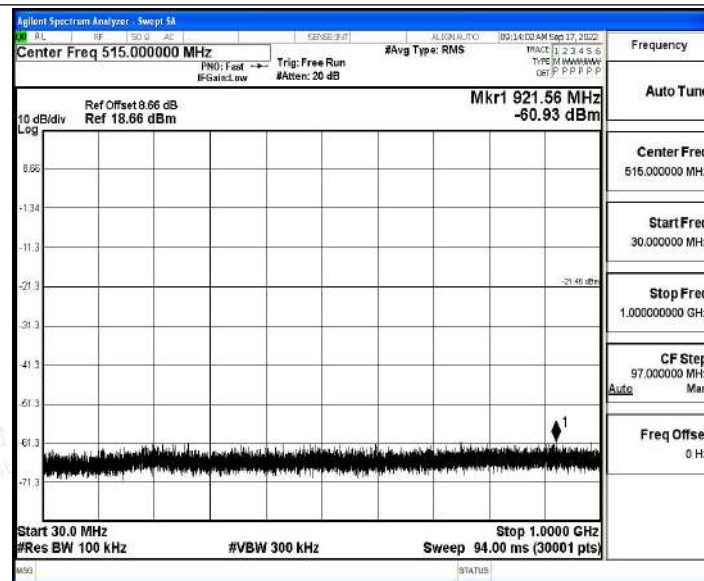


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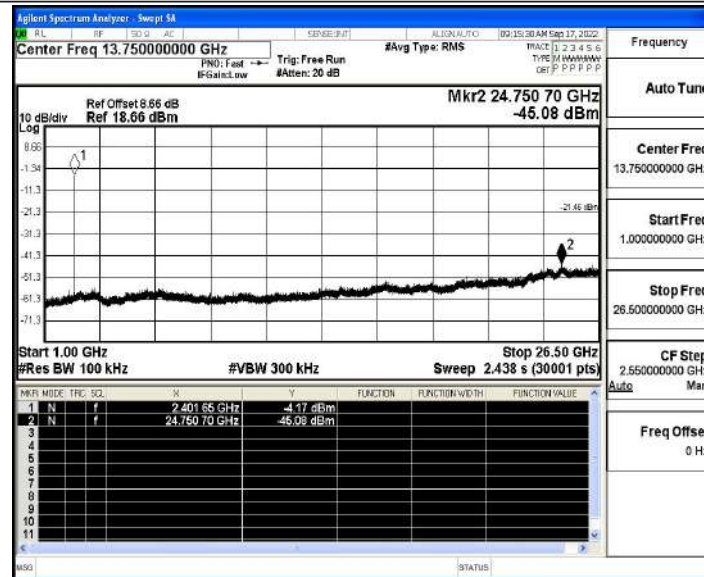
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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference

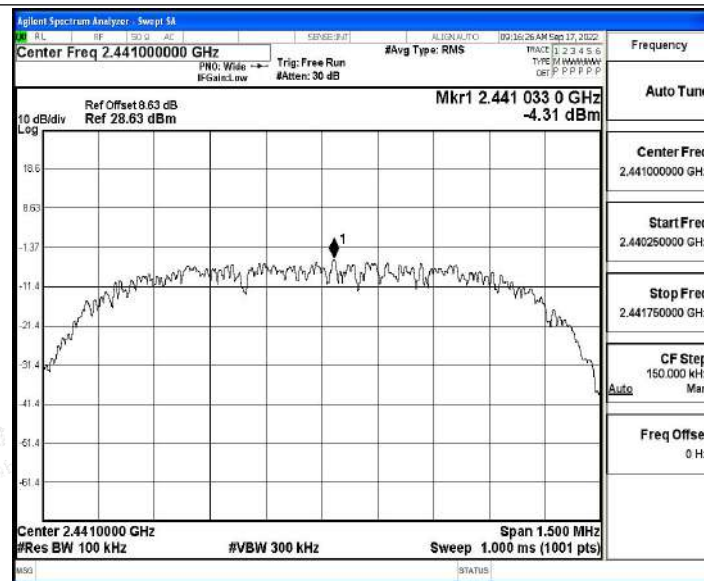


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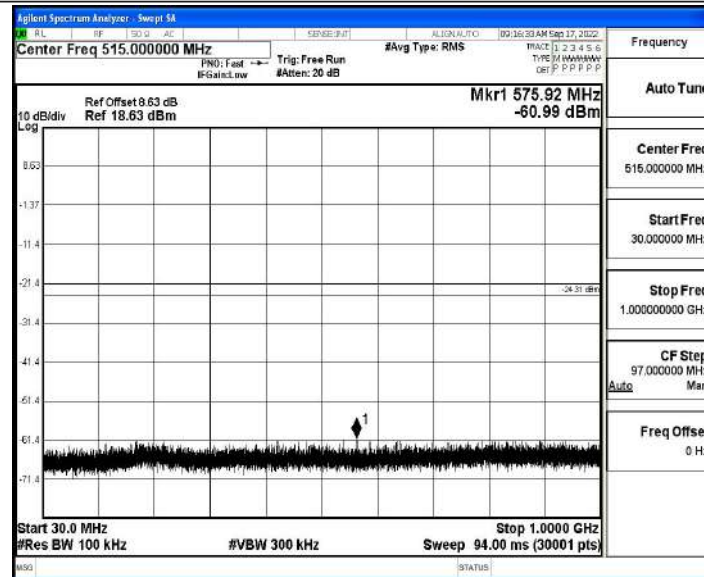
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

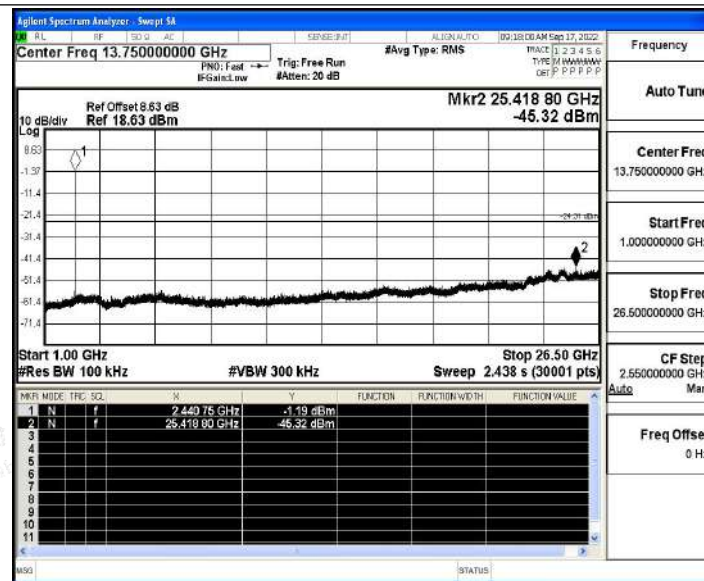


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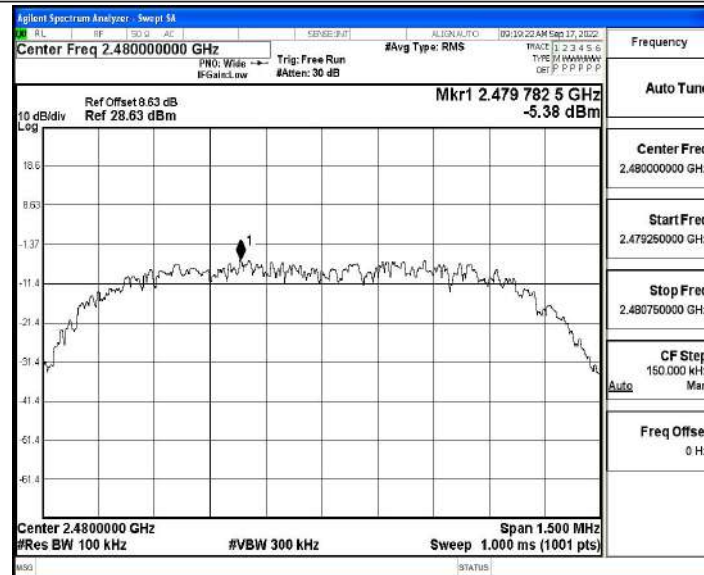
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000

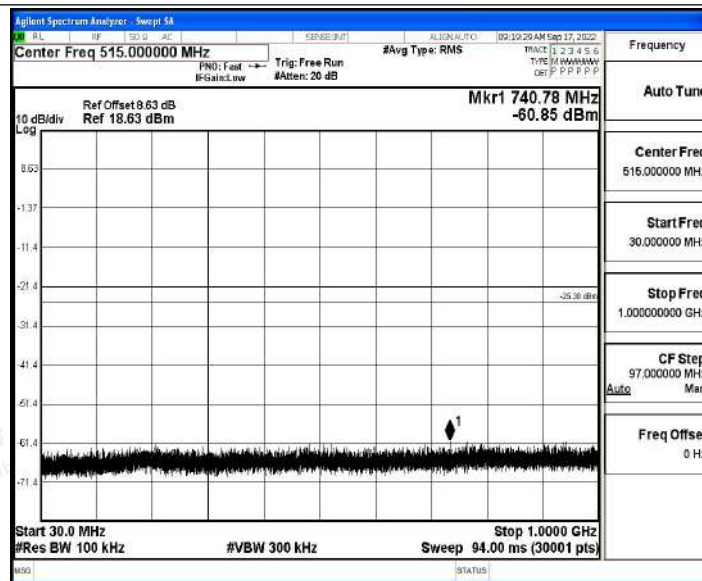


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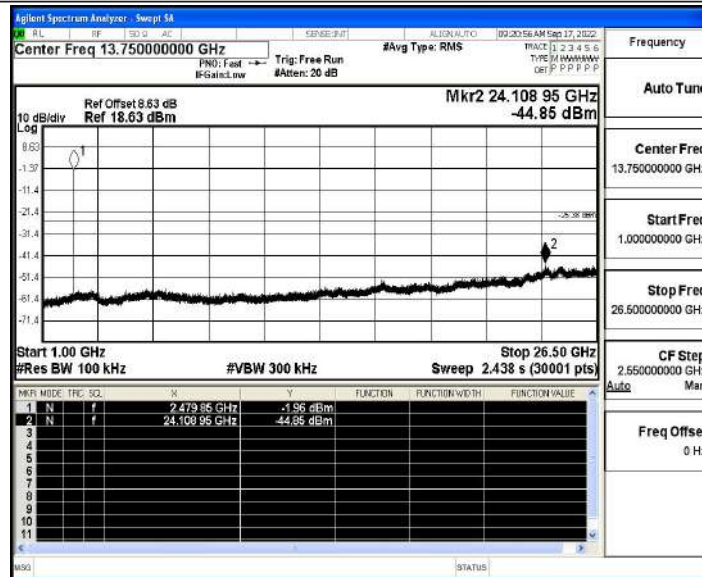
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2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

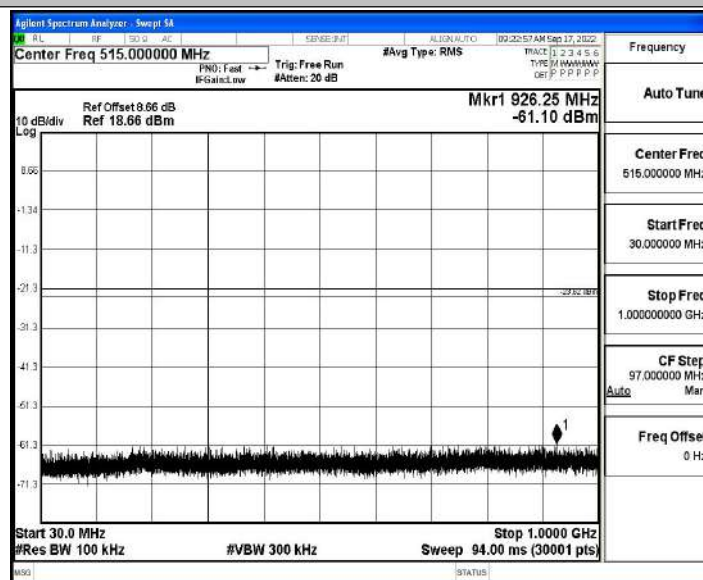
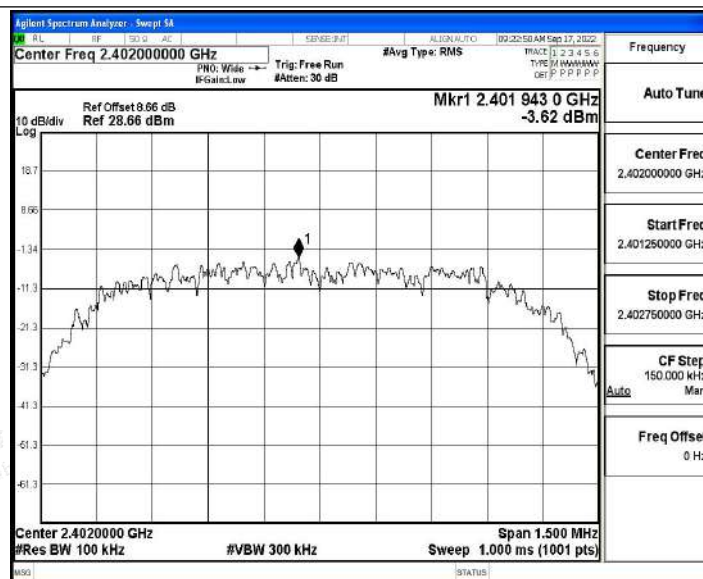


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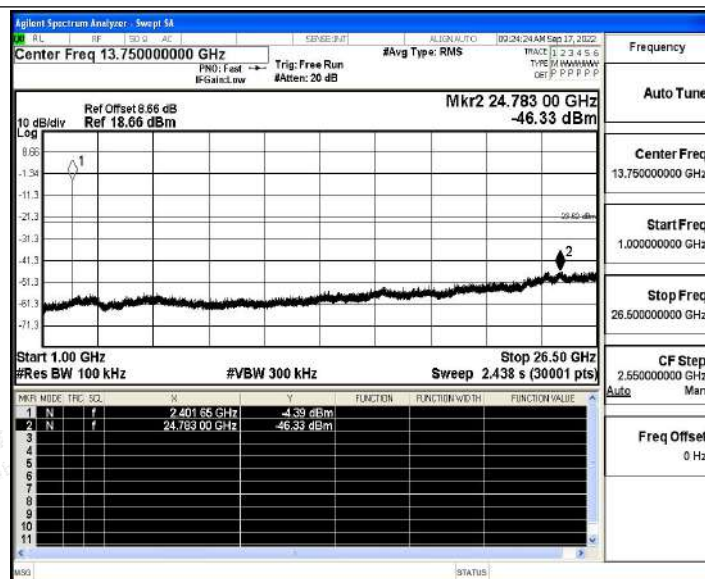


Shenzhen LCS Compliance Testing Laboratory Ltd.

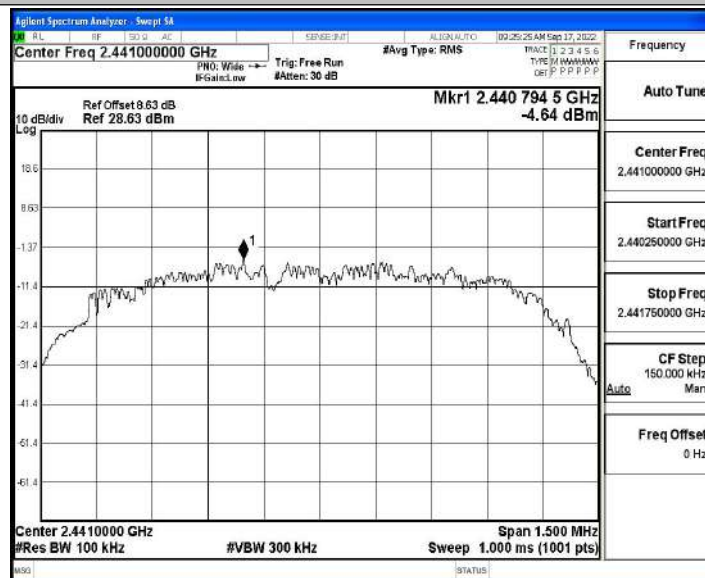
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3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

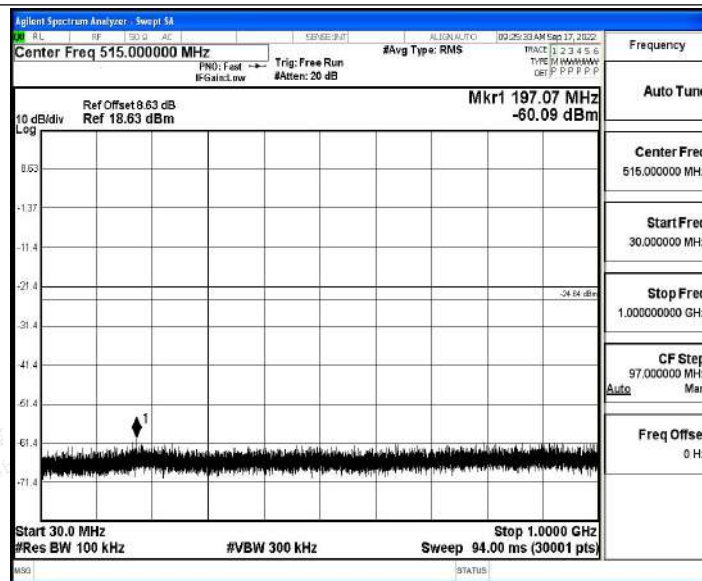


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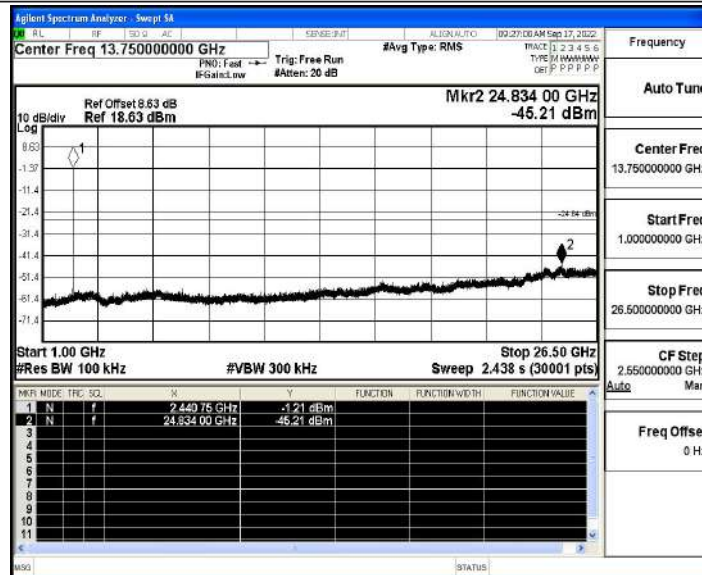
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

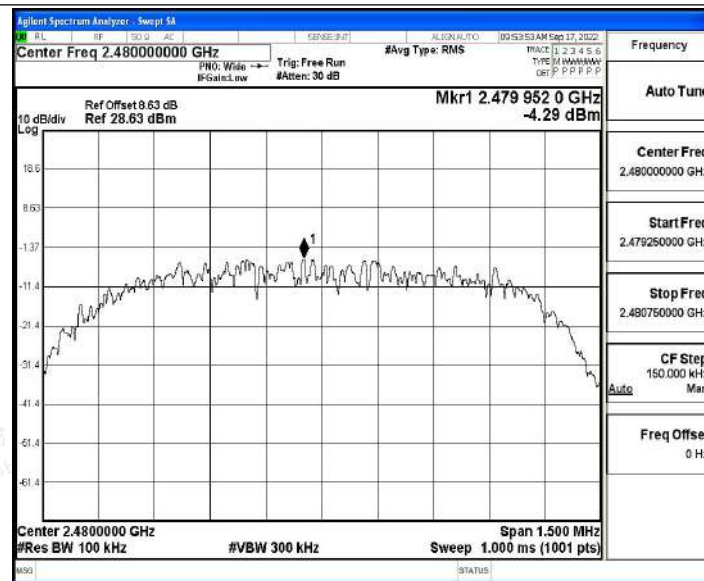


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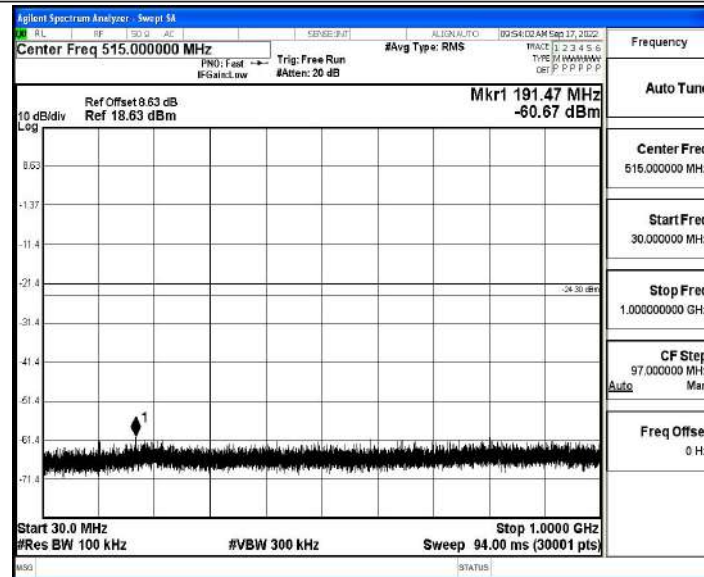
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

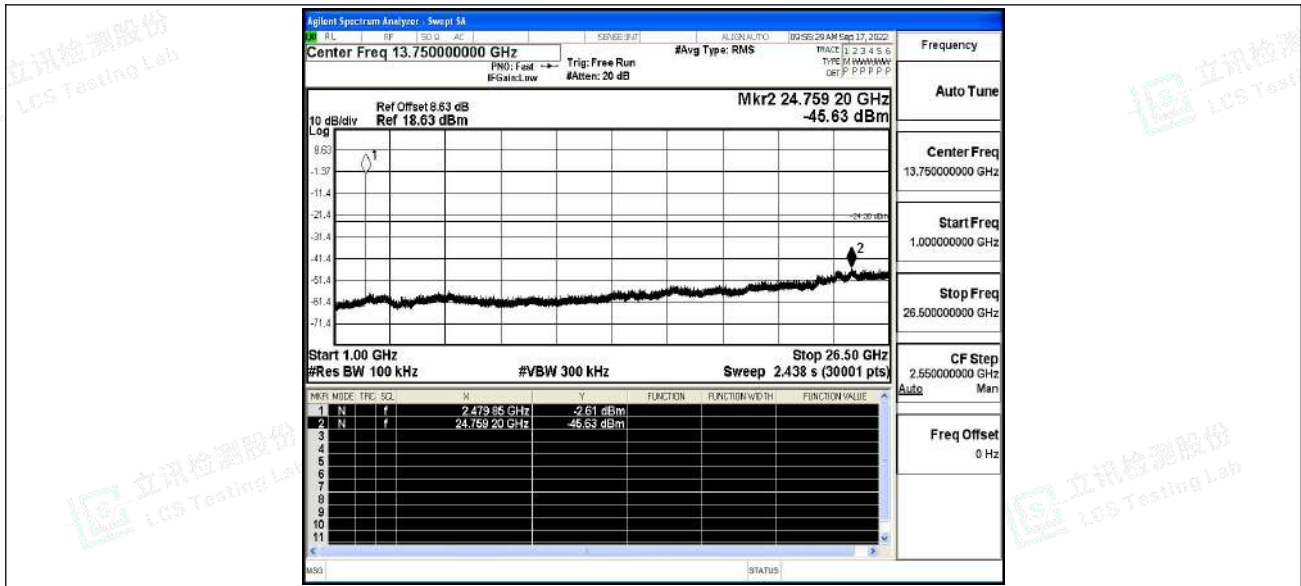


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A.8 Emissions in Restricted Bands

Test Result

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	-58.12	≤-41.20	37.08	≤54	PASS
				AV	2388.305	-57.49	≤-41.20	37.71	≤54	PASS
				AV	2390.000	-57.56	≤-41.20	37.64	≤54	PASS
				Peak	2310.000	-51.89	≤-21.20	43.31	≤74	PASS
				Peak	2370.245	-48.13	≤-21.20	47.07	≤74	PASS
				Peak	2390.000	-53.29	≤-21.20	41.91	≤74	PASS
		High	2480	AV	2483.500	-55.5	≤-41.20	39.70	≤54	PASS
				AV	2483.520	-55.5	≤-41.20	39.70	≤54	PASS
				AV	2500.000	-57.25	≤-41.20	37.95	≤54	PASS
				Peak	2483.500	-49.96	≤-21.20	45.24	≤74	PASS
				Peak	2483.760	-48.32	≤-21.20	46.88	≤74	PASS
				Peak	2500.000	-52.03	≤-21.20	43.17	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-49.31	≤-21.20	45.89	≤74	PASS
				Peak	2325.620	-47.48	≤-21.20	47.72	≤74	PASS
				Peak	2390.000	-49.07	≤-21.20	46.13	≤74	PASS
		High	Hop_2480	Peak	2483.500	-47.4	≤-21.20	47.80	≤74	PASS
				Peak	2499.120	-45.61	≤-21.20	49.59	≤74	PASS
				Peak	2500.000	-48.38	≤-21.20	46.82	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-58.13	≤-41.20	37.07	≤54	PASS
				AV	2385.890	-57.47	≤-41.20	37.73	≤54	PASS
				AV	2390.000	-57.71	≤-41.20	37.49	≤54	PASS
				Peak	2310.000	-51.76	≤-21.20	43.44	≤74	PASS
				Peak	2318.795	-48.74	≤-21.20	46.46	≤74	PASS
				Peak	2390.000	-50.58	≤-21.20	44.62	≤74	PASS
		High	2480	AV	2483.500	-55.17	≤-41.20	40.03	≤54	PASS
				AV	2483.520	-55.17	≤-41.20	40.03	≤54	PASS
				AV	2500.000	-57.13	≤-41.20	38.07	≤54	PASS
				Peak	2483.500	-51.23	≤-21.20	43.97	≤74	PASS
				Peak	2489.840	-48.73	≤-21.20	46.47	≤74	PASS
				Peak	2500.000	-50.91	≤-21.20	44.29	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-49.17	≤-21.20	46.03	≤74	PASS
				Peak	2357.330	-47.5	≤-21.20	47.70	≤74	PASS
				Peak	2390.000	-48.69	≤-21.20	46.51	≤74	PASS
		High	Hop_2480	Peak	2483.500	-49.03	≤-21.20	46.17	≤74	PASS
				Peak	2498.800	-46.75	≤-21.20	48.45	≤74	PASS



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3DH5	Ant1	Low	2402	Peak	2500.000	-48.53	≤-21.20	46.67	≤74	PASS
				AV	2310.000	-58.12	≤-41.20	37.08	≤54	PASS
				AV	2388.725	-57.47	≤-41.20	37.73	≤54	PASS
				AV	2390.000	-57.68	≤-41.20	37.52	≤54	PASS
				Peak	2310.000	-53.62	≤-21.20	41.58	≤74	PASS
				Peak	2387.675	-48.07	≤-21.20	47.13	≤74	PASS
				Peak	2390.000	-52.87	≤-21.20	42.33	≤74	PASS
		High	2480	AV	2483.500	-55.19	≤-41.20	40.01	≤54	PASS
				AV	2483.520	-55.19	≤-41.20	40.01	≤54	PASS
				AV	2500.000	-57.11	≤-41.20	38.09	≤54	PASS
				Peak	2483.500	-52.29	≤-21.20	42.91	≤74	PASS
				Peak	2487.920	-48.21	≤-21.20	46.99	≤74	PASS
				Peak	2500.000	-53	≤-21.20	42.20	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-49.34	≤-21.20	45.86	≤74	PASS
				Peak	2328.350	-47.76	≤-21.20	47.44	≤74	PASS
				Peak	2390.000	-48.46	≤-21.20	46.74	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-47.75	≤-21.20	47.45	≤74	PASS
				Peak	2495.280	-46.9	≤-21.20	48.30	≤74	PASS
				Peak	2500.000	-48.07	≤-21.20	47.13	≤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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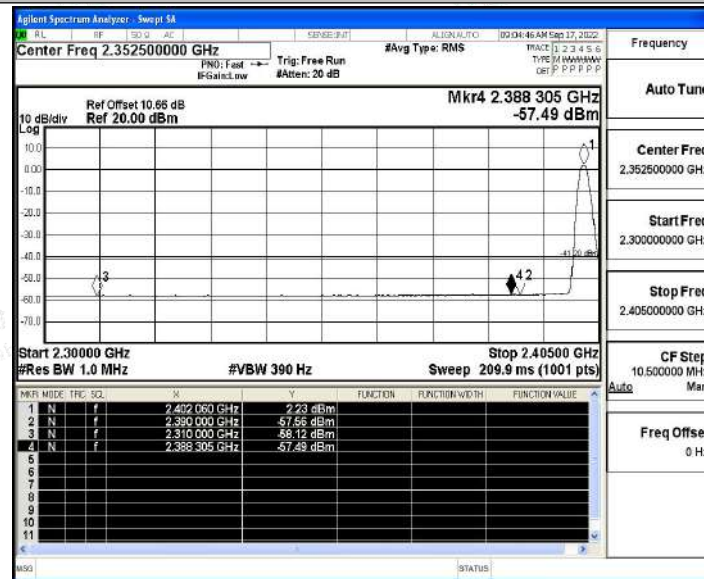
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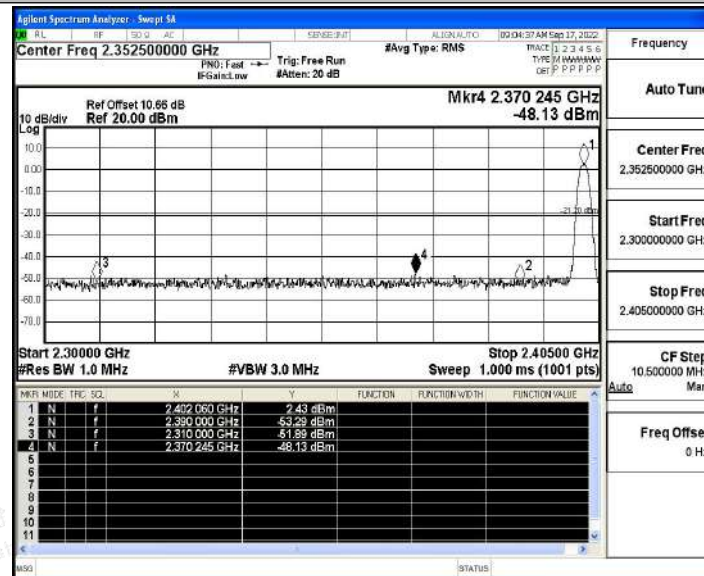


Test Graphs

DH5_Ant1_Low_2402_AV



DH5_Ant1_Low_2402_Peak



DH5_Ant1_High_2480_AV

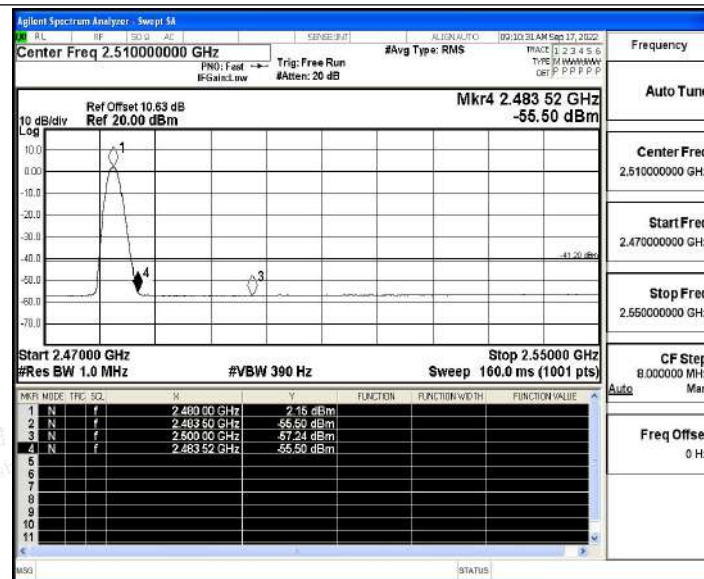


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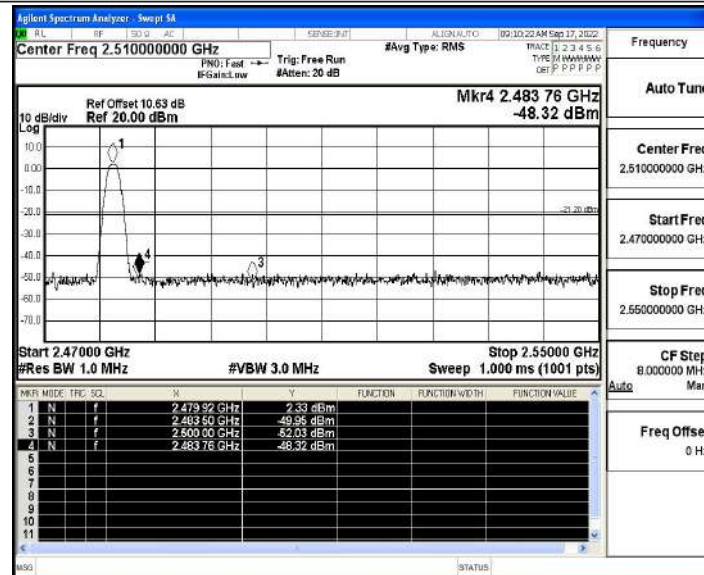
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DH5_Ant1_High_2480_Peak



DH5_Ant1_Low_Hop_2402_Peak

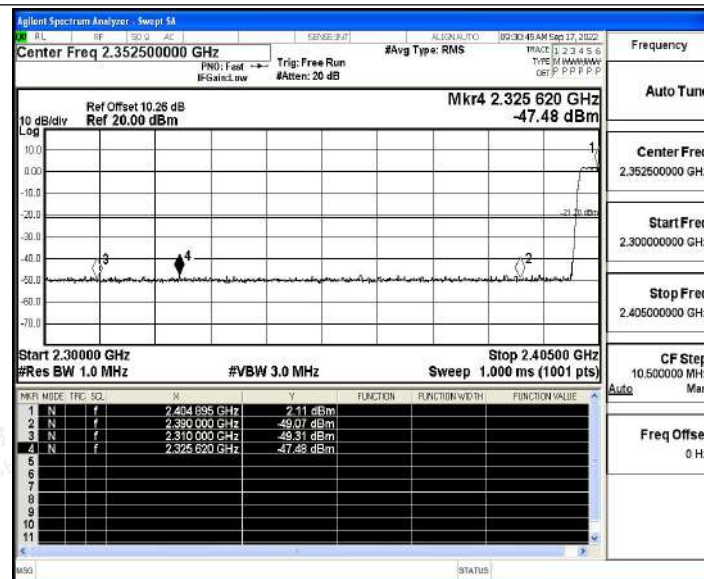


Shenzhen LCS Compliance Testing Laboratory Ltd.

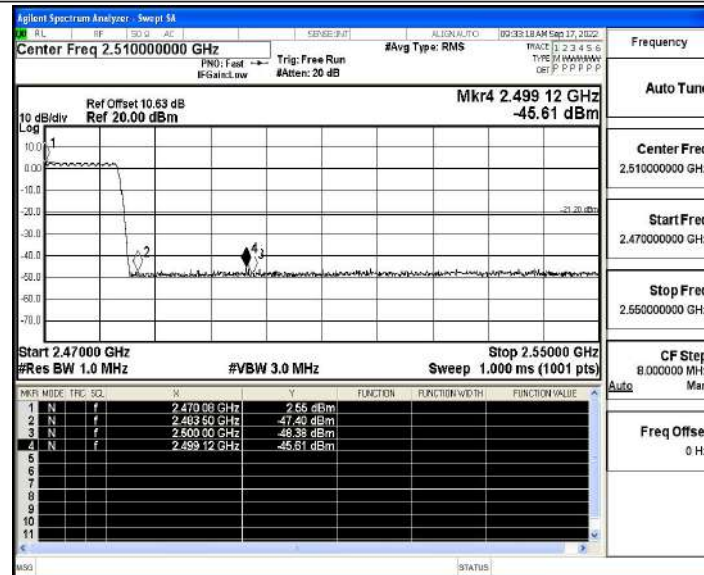
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DH5_Ant1_High_Hop_2480_Peak



2DH5_Ant1_Low_2402_AV

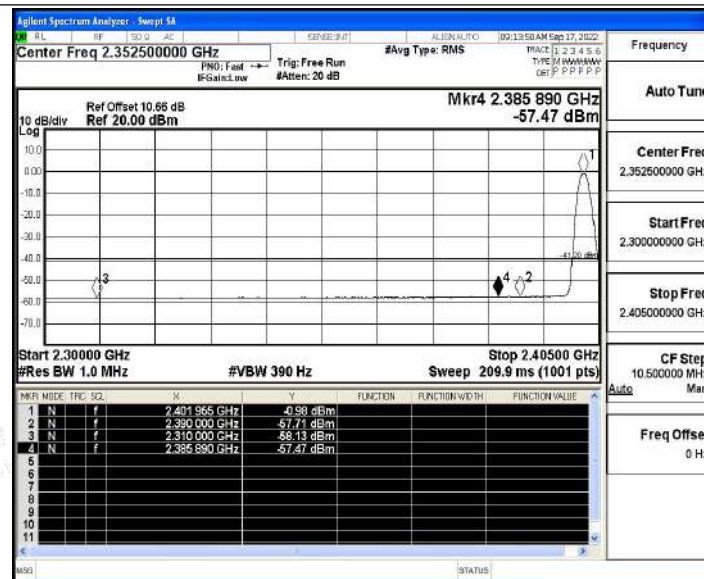


Shenzhen LCS Compliance Testing Laboratory Ltd.

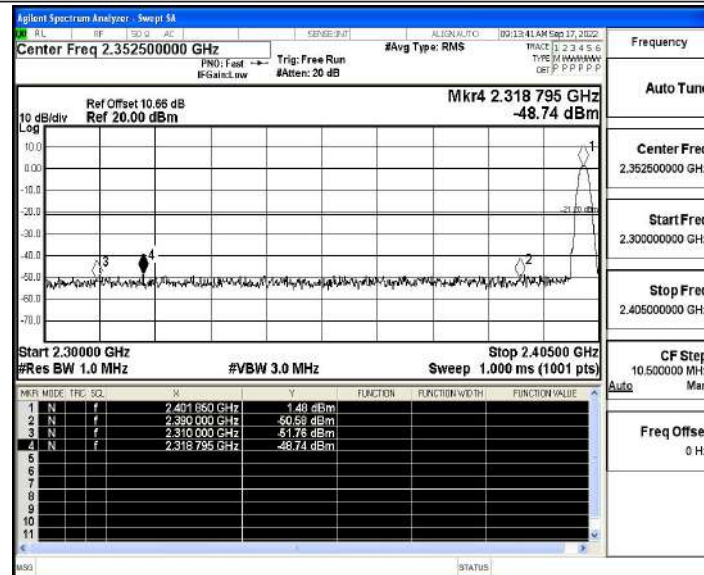
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2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

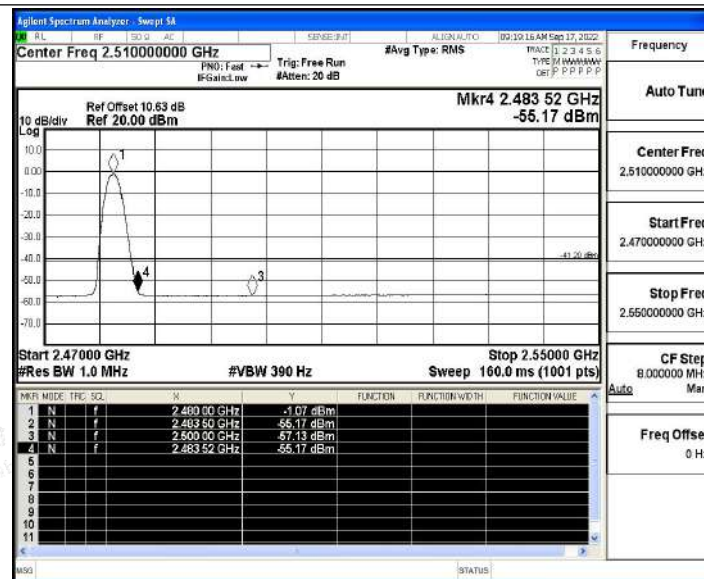


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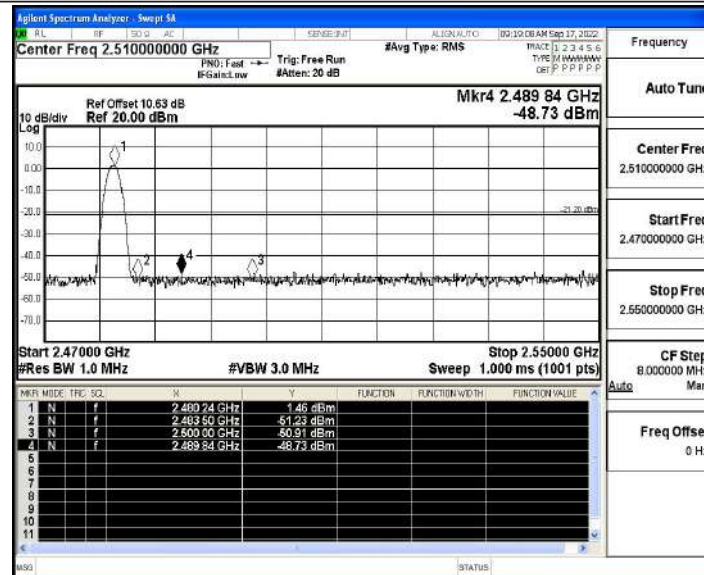
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2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak

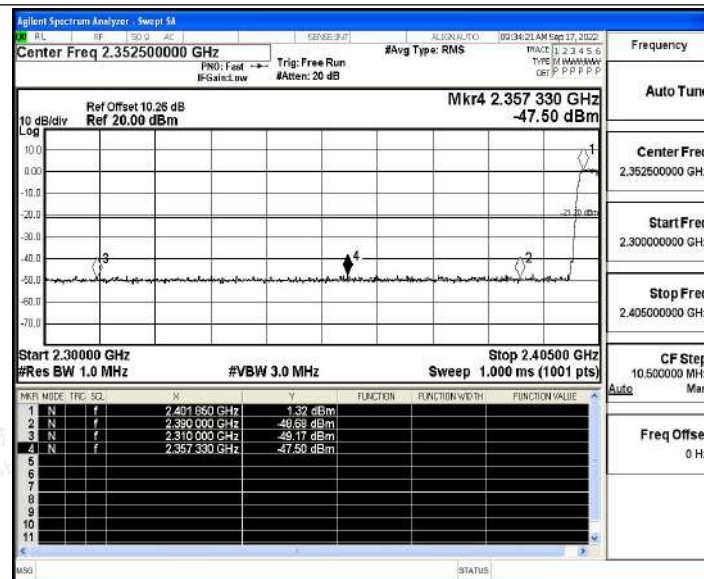


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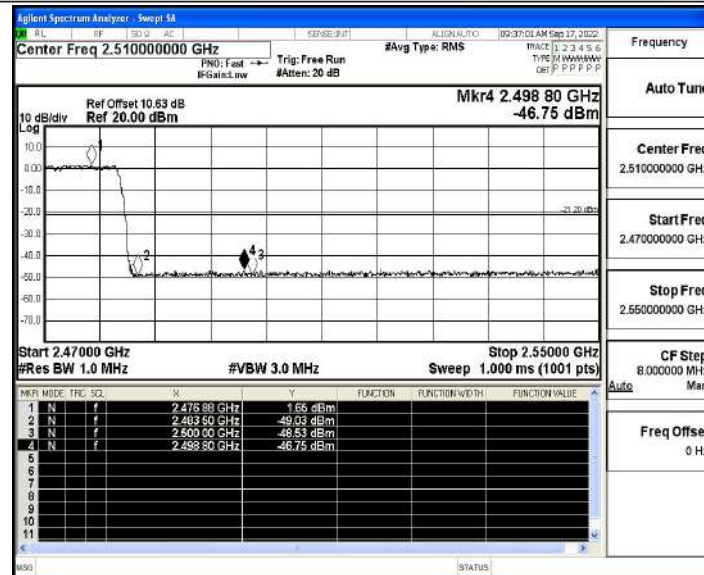
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_High_Hop_2480_Peak



3DH5_Ant1_Low_2402_AV

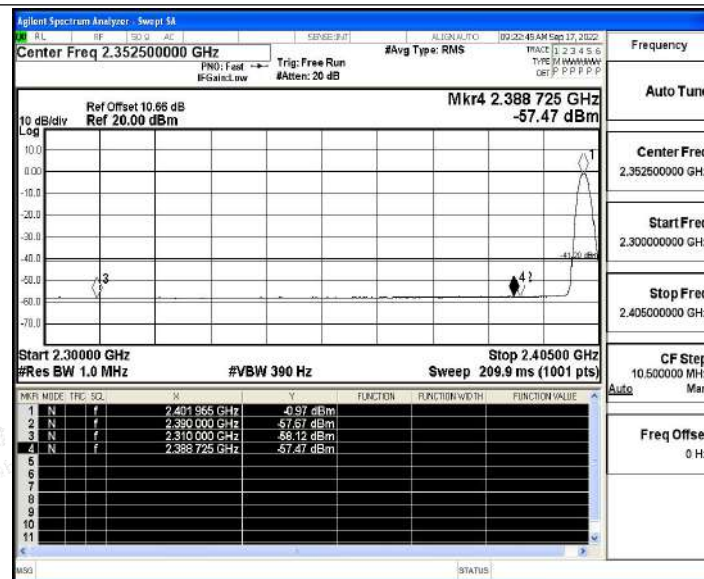


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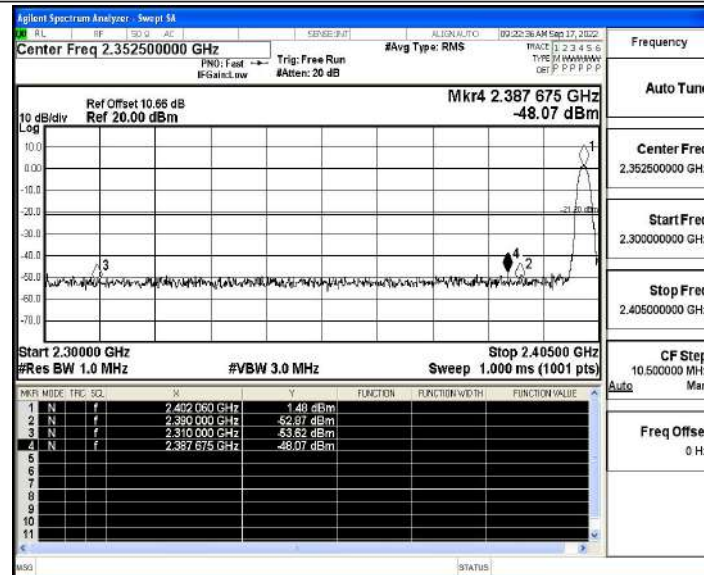
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3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV

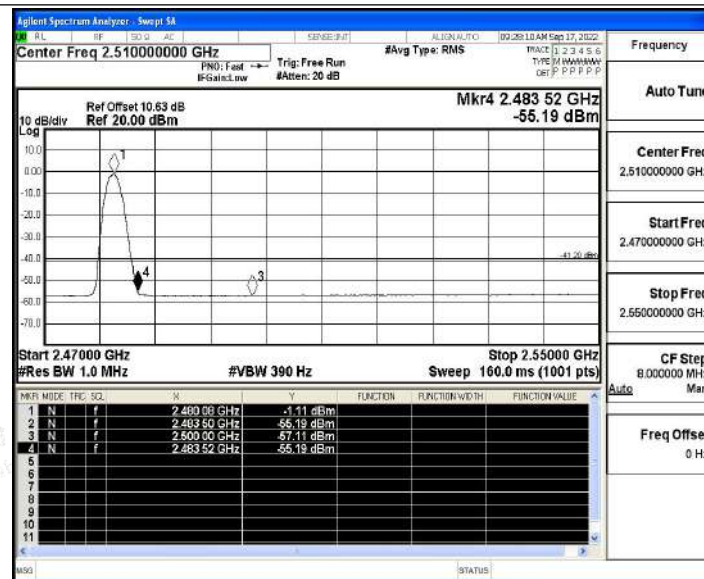


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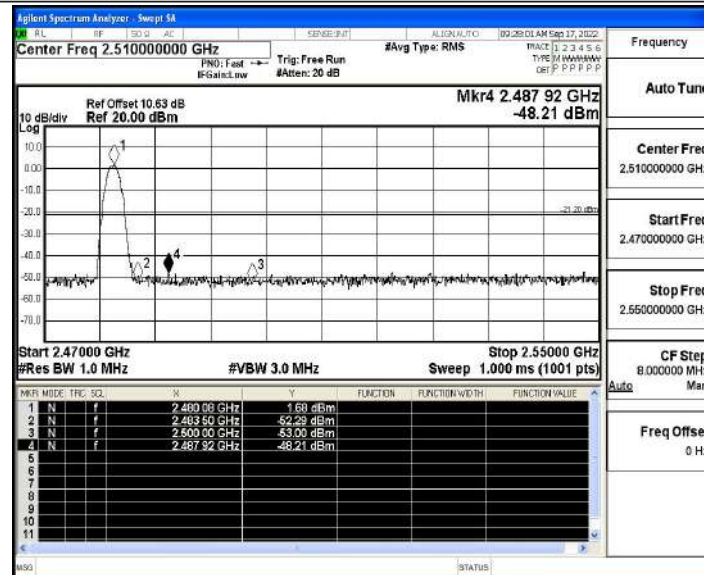
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3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak

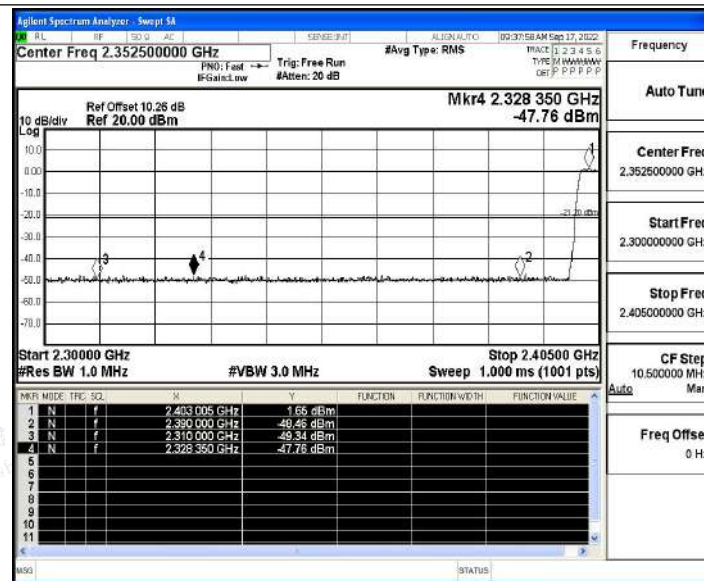


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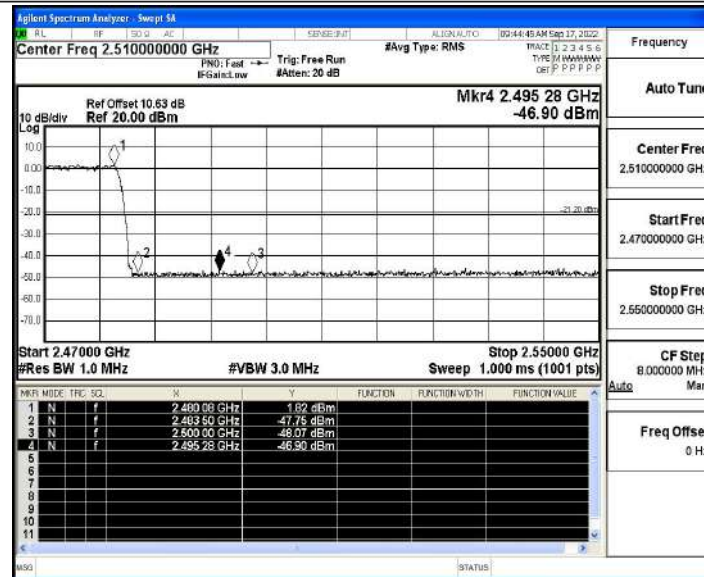
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3DH5_Ant1_High_Hop_2480_Peak



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