



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Karaoke Machine

Test Model: KA219

Environmental Conditions

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



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A1. 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.541	2402.495	---
		2441	0.942	2440.544	2441.486	---
		2480	0.948	2479.541	2480.489	---
2DH5	Ant1	2402	1.296	2401.361	2402.657	---
		2441	1.293	2440.364	2441.657	---
		2480	1.290	2479.364	2480.654	---
3DH5	Ant1	2402	1.305	2401.349	2402.654	---
		2441	1.296	2440.352	2441.648	---
		2480	1.302	2479.352	2480.654	---



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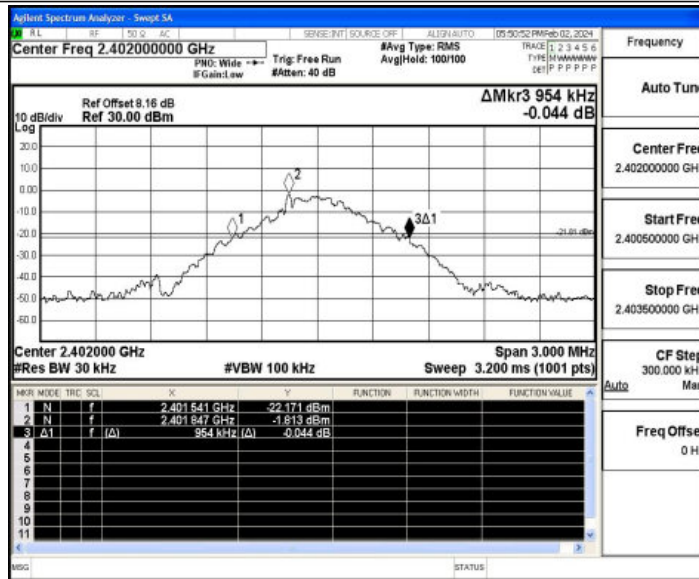
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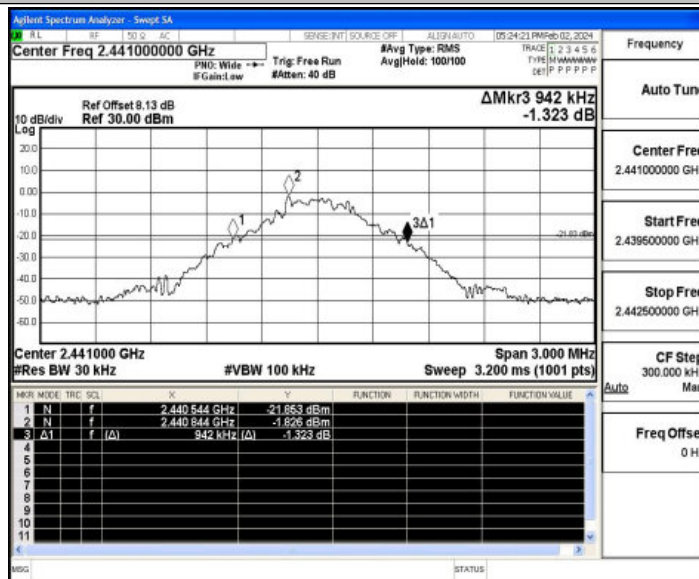


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

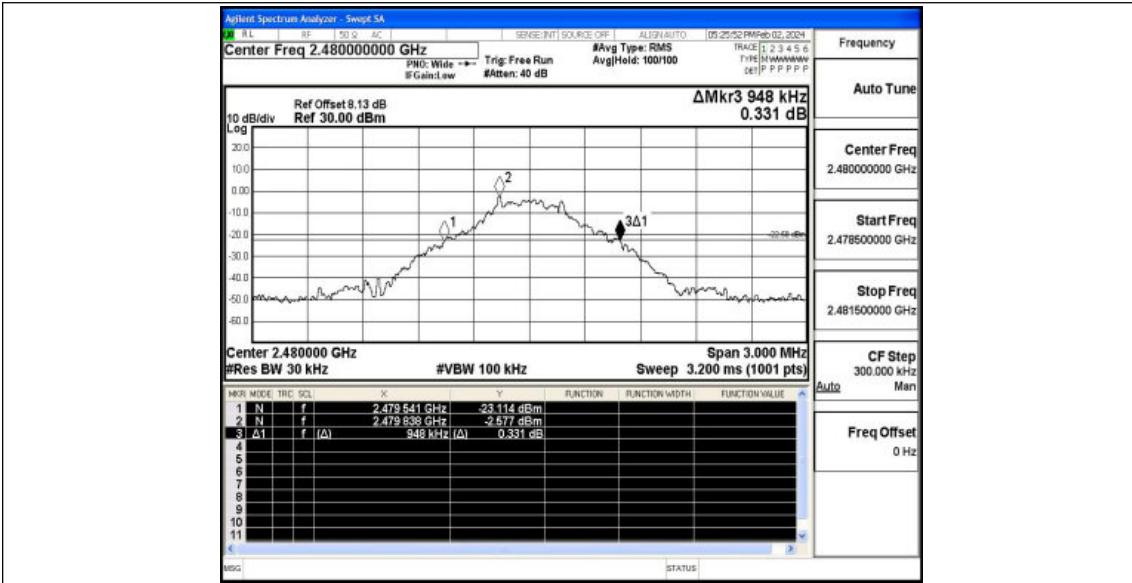


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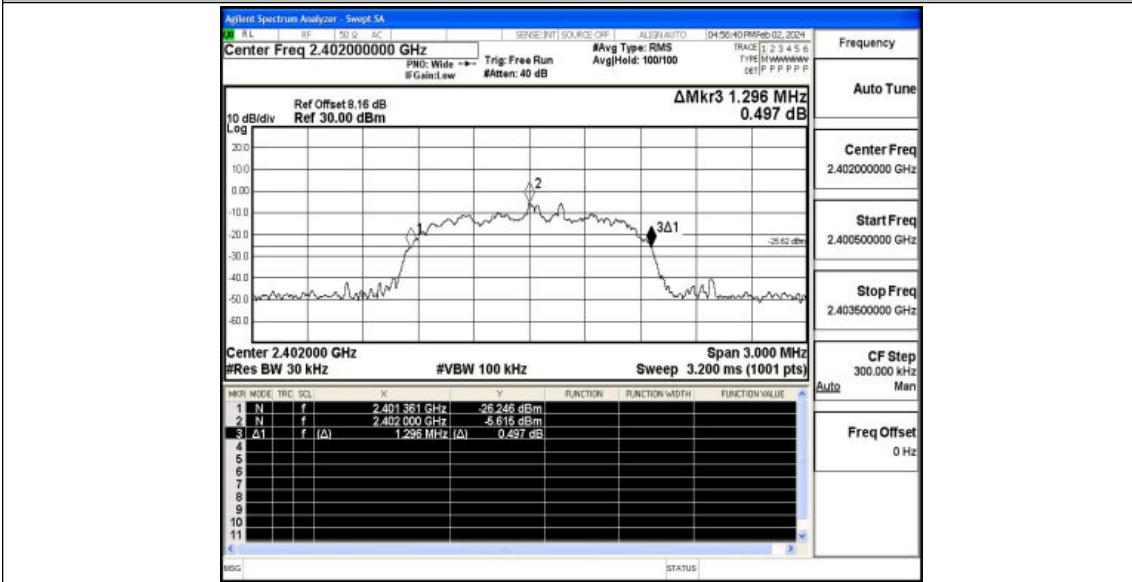
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2DH5_Ant1_2402



2DH5_Ant1_2441

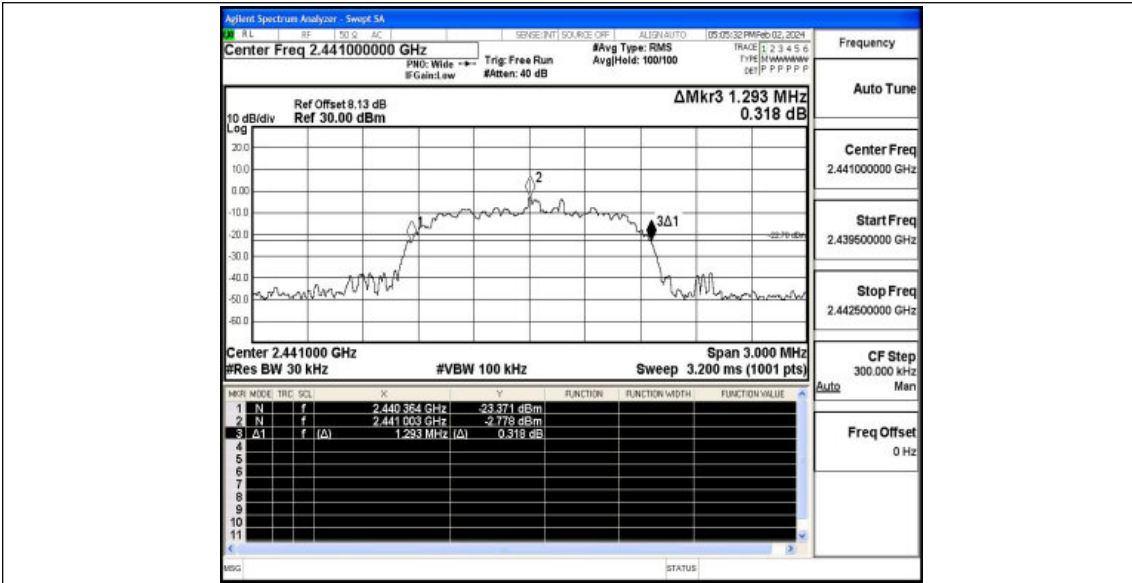


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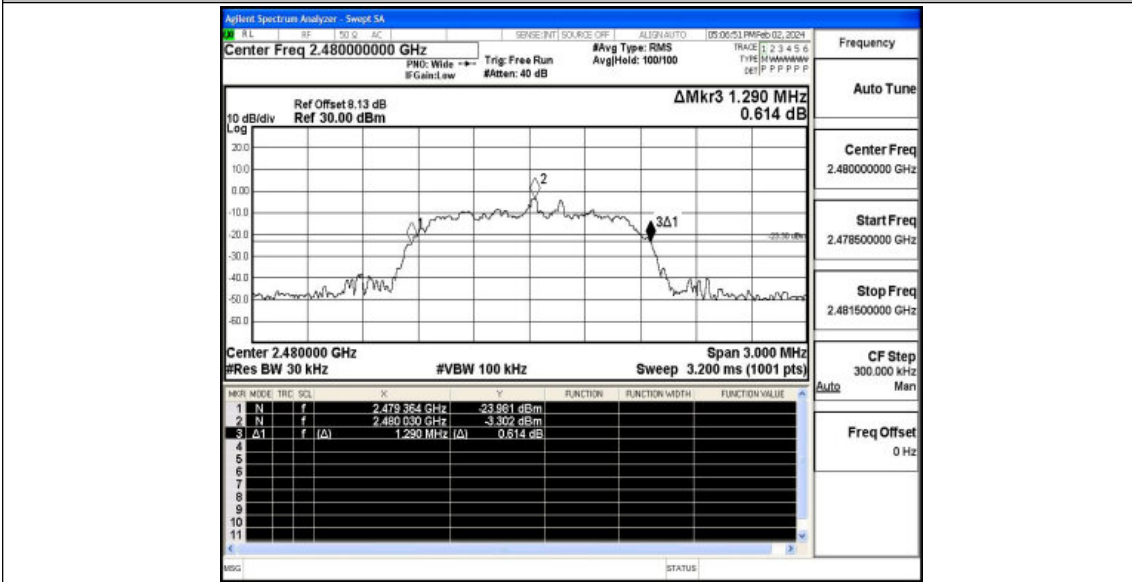
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2DH5_Ant1_2480



3DH5_Ant1_2402

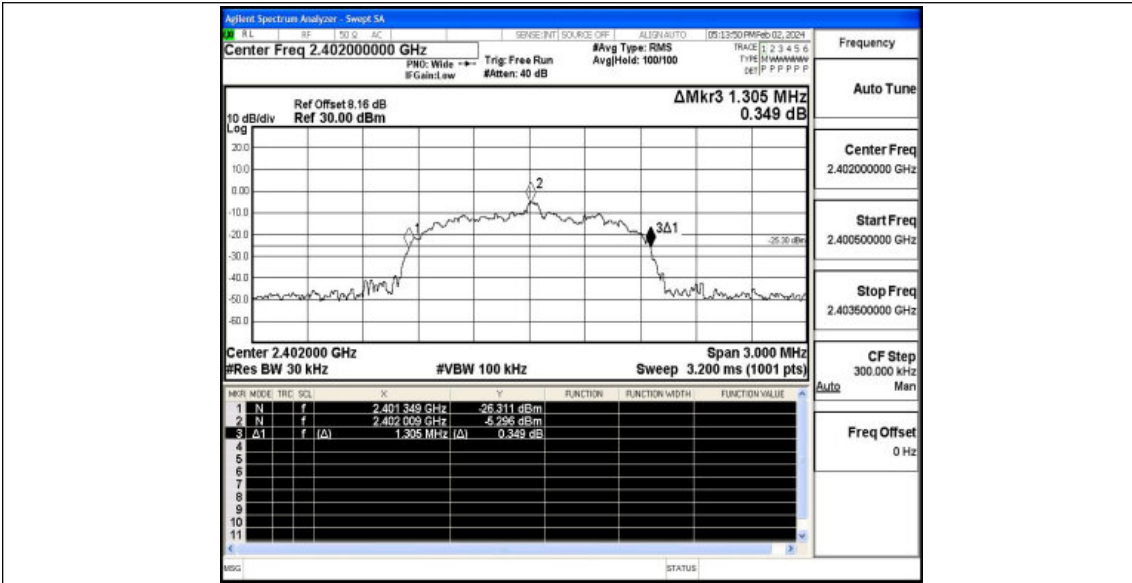


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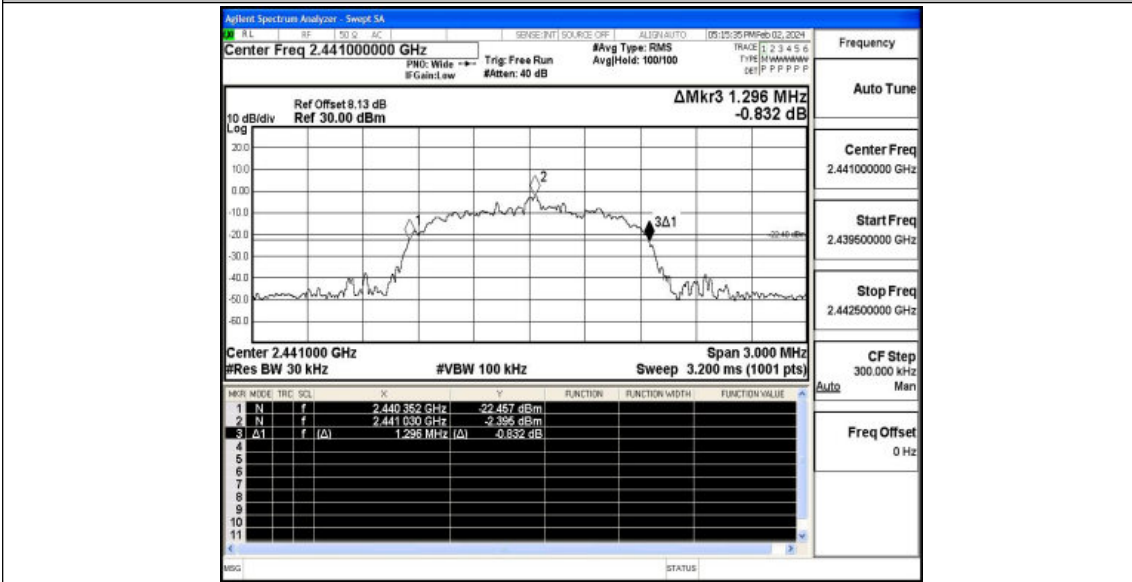
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3DH5_Ant1_2441



3DH5_Ant1_2480

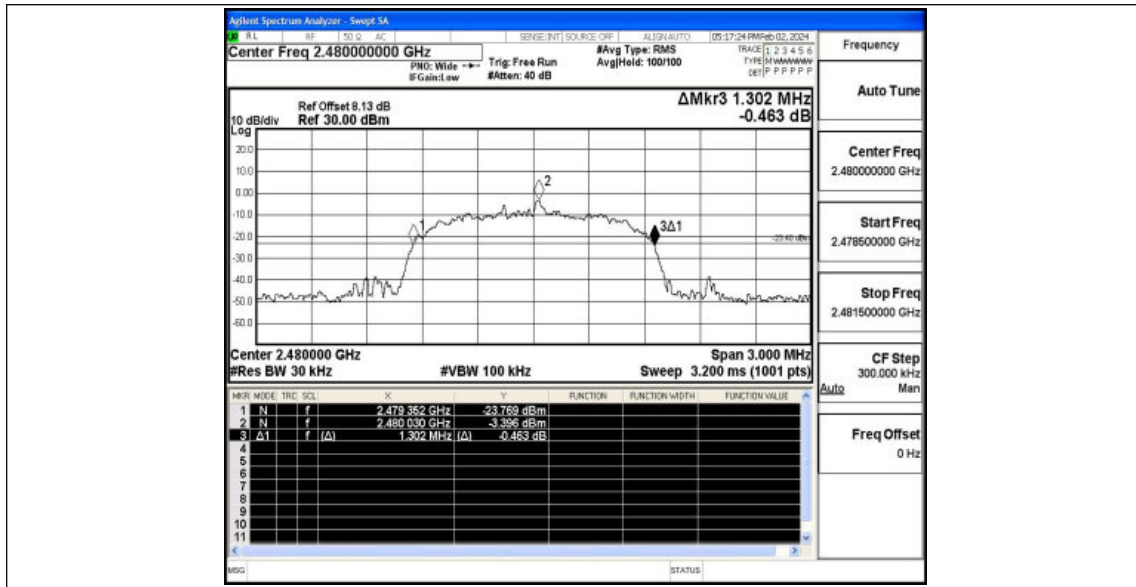


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A.2 Maximum peak conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.25	≤20.97	PASS
		2441	0.04	≤20.97	PASS
		2480	-0.92	≤20.97	PASS
2DH5	Ant1	2402	-0.71	≤20.97	PASS
		2441	1.66	≤20.97	PASS
		2480	0.71	≤20.97	PASS
3DH5	Ant1	2402	-0.30	≤20.97	PASS
		2441	2.01	≤20.97	PASS
		2480	0.78	≤20.97	PASS



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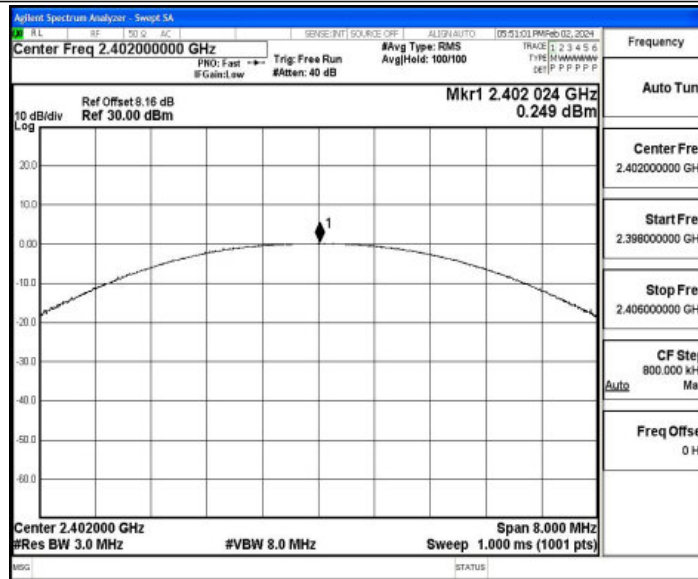
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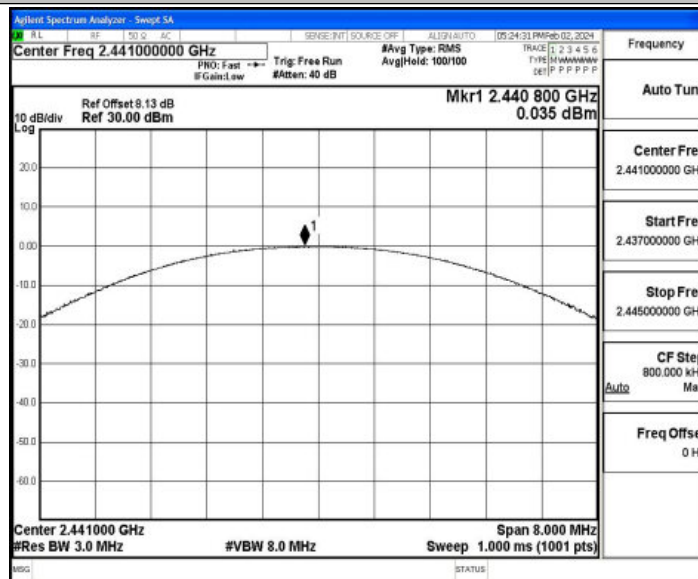


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

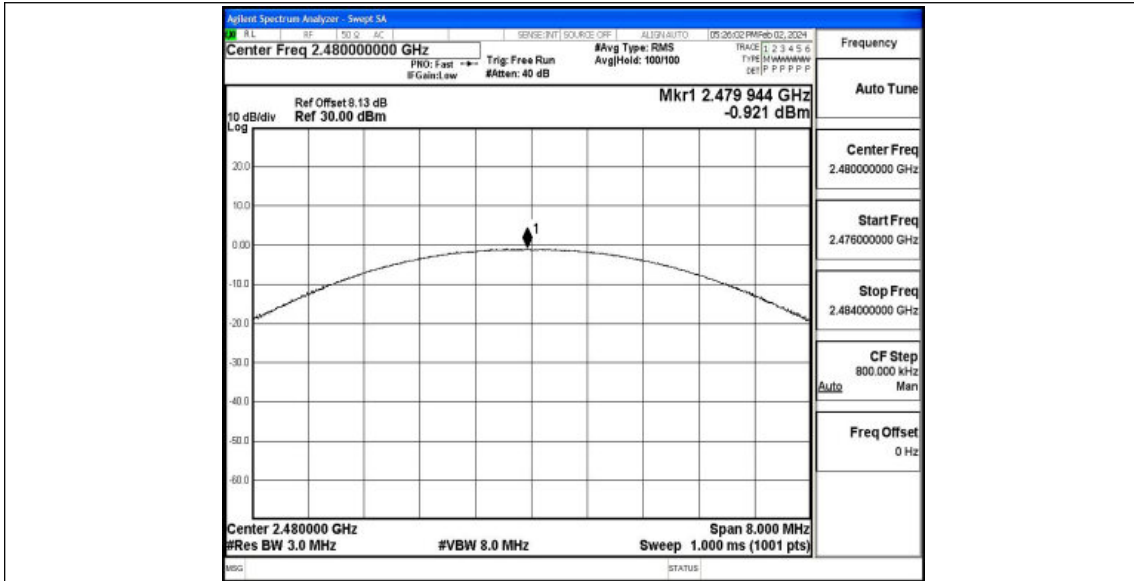


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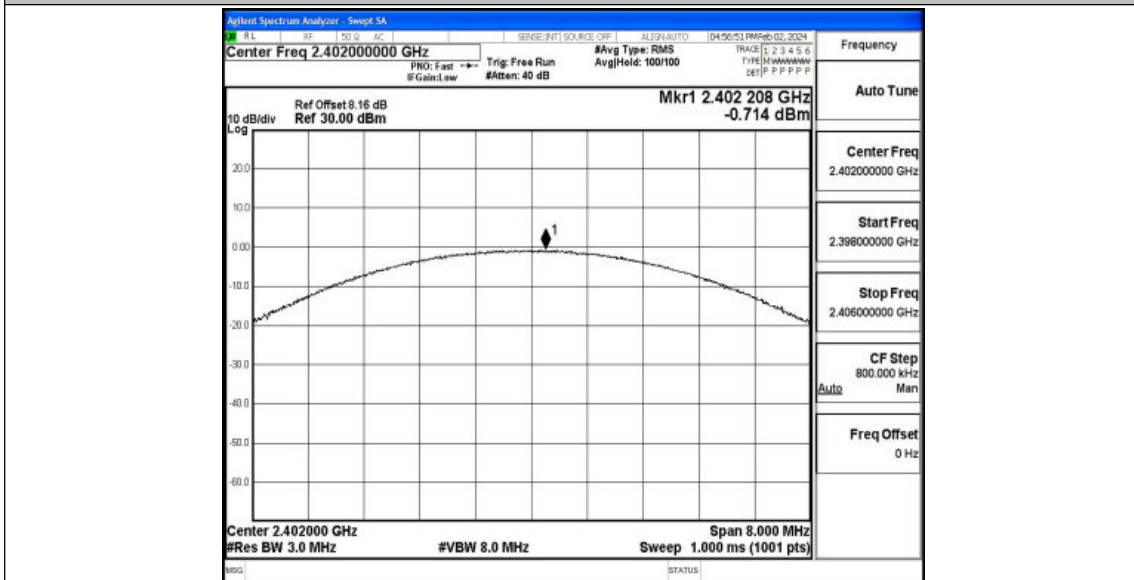
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2DH5_Ant1_2402



2DH5_Ant1_2441

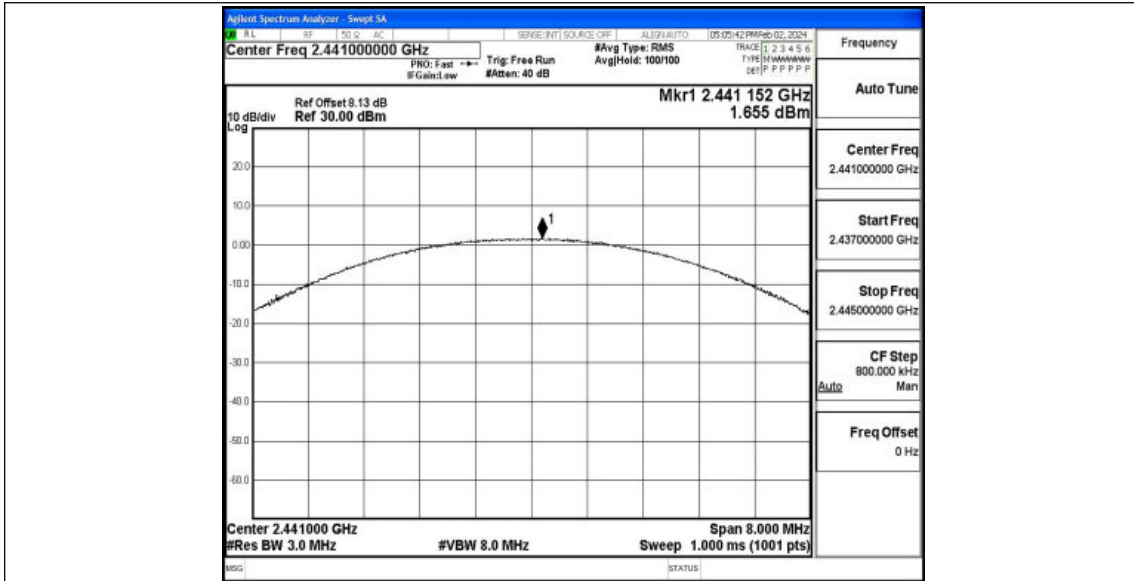


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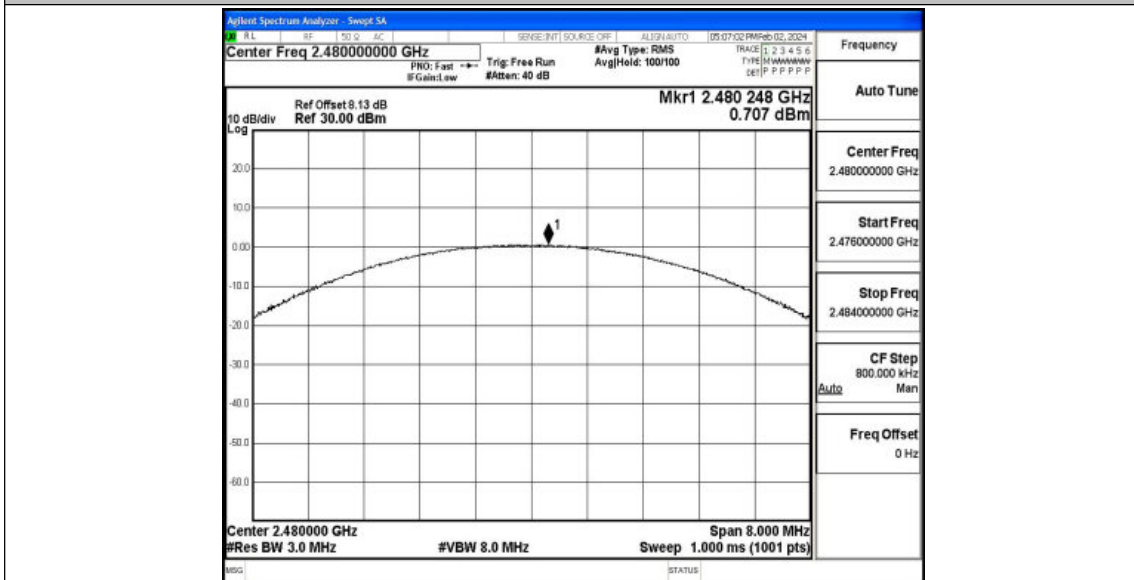
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2DH5_Ant1_2480



3DH5_Ant1_2402

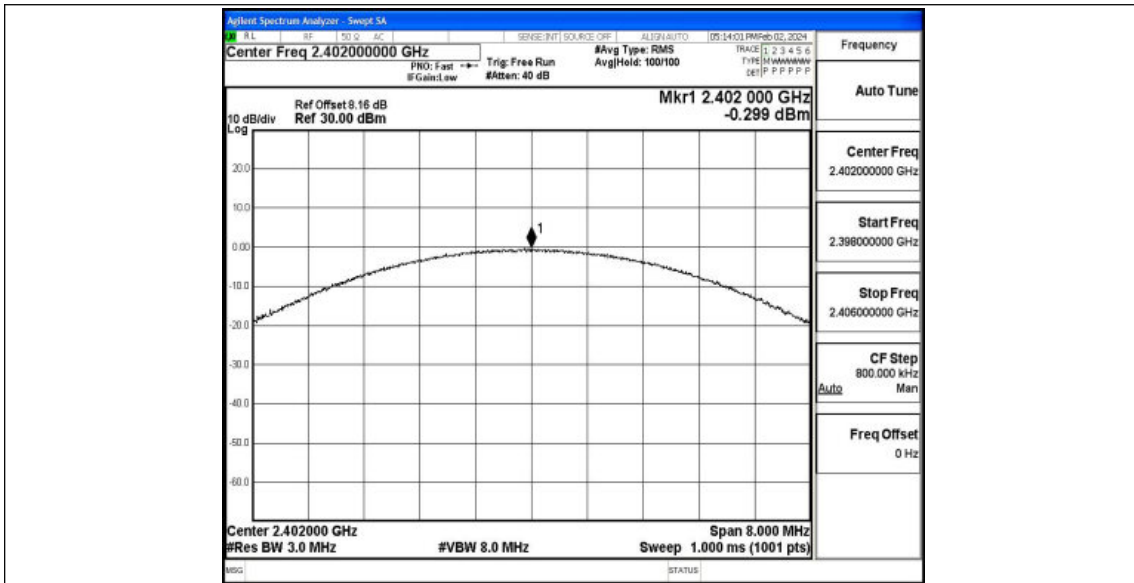


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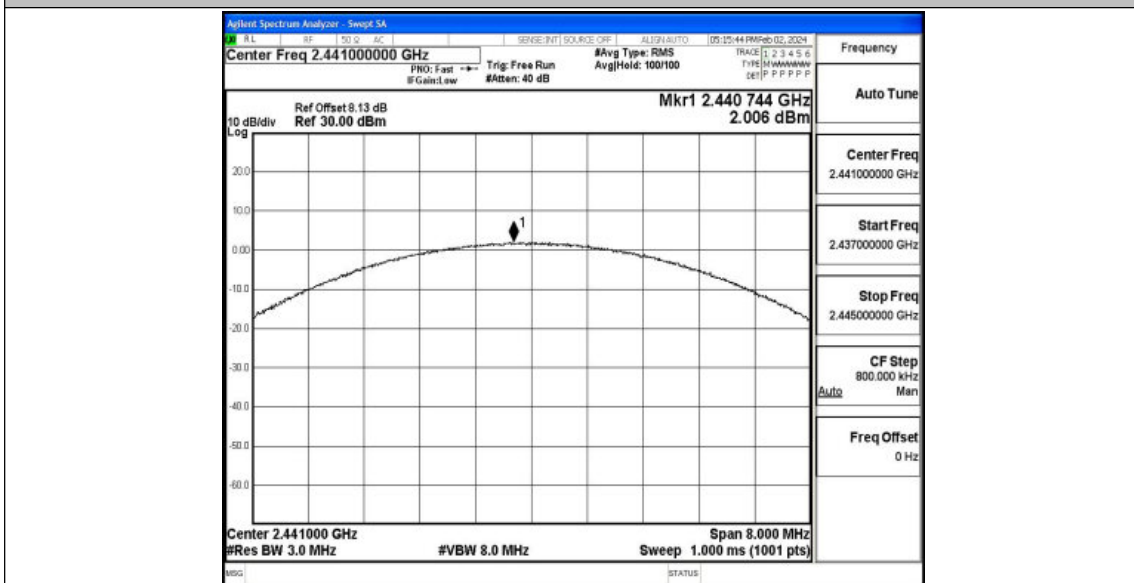
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3DH5_Ant1_2441



3DH5_Ant1_2480

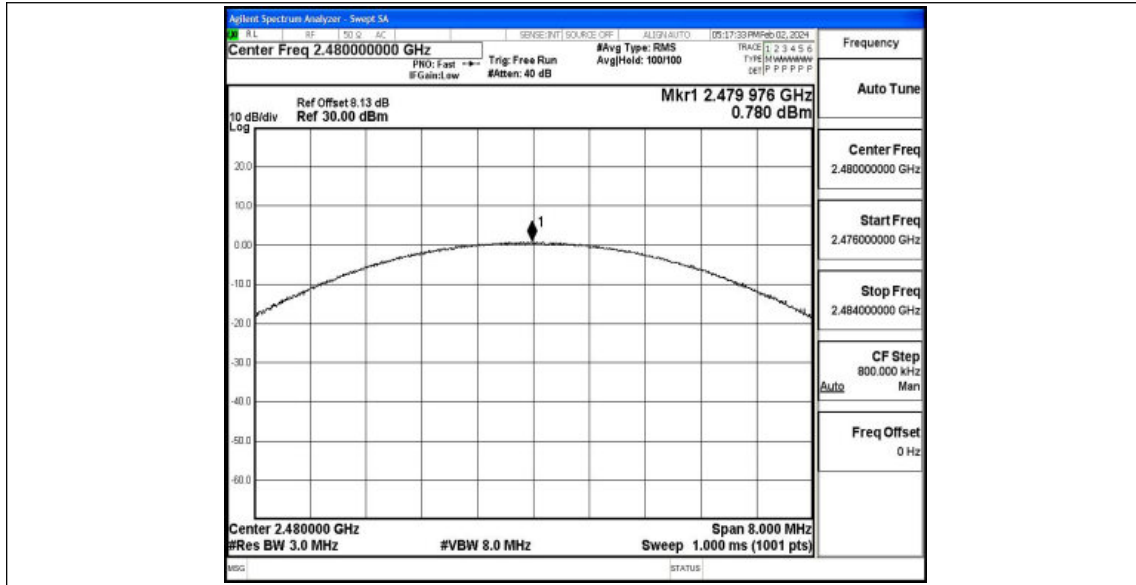


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A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.33	≥ 0.948	PASS
2DH5	Ant1	Hop	0.866	≥ 0.864	PASS
3DH5	Ant1	Hop	1.074	≥ 0.870	PASS



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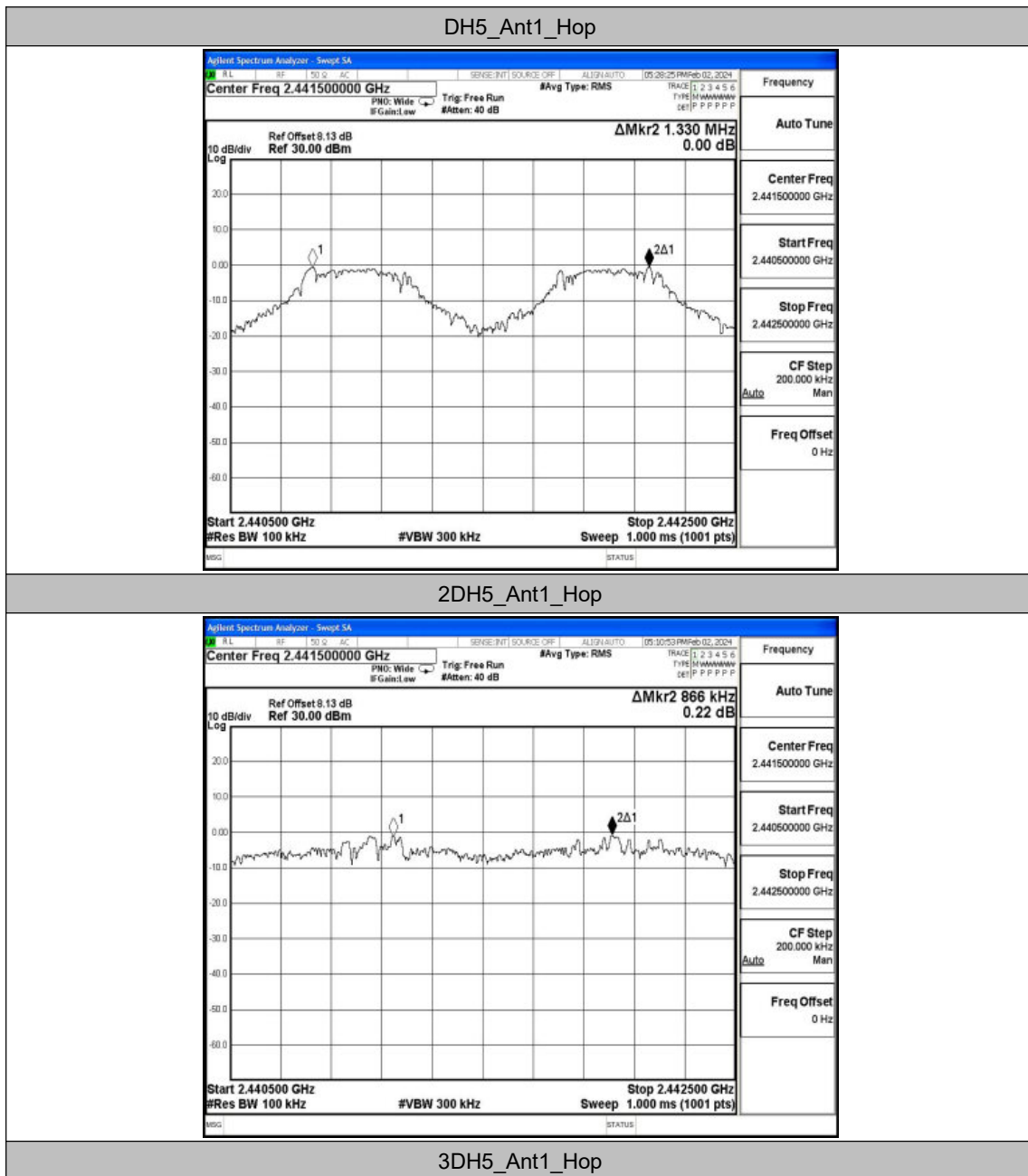
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Test Graphs

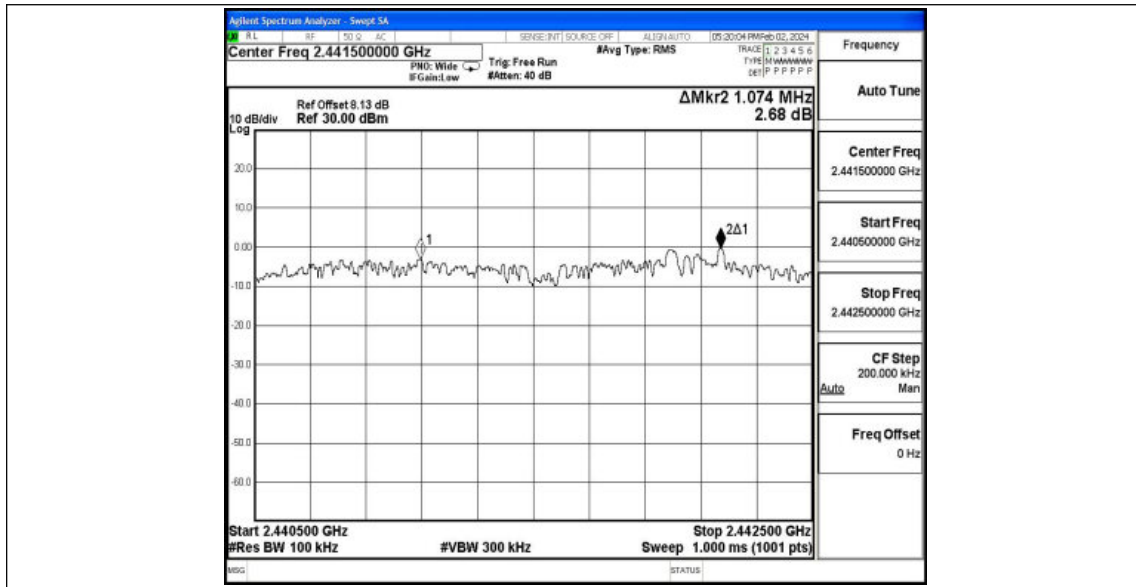


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A.4 Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.907	106.67	0.31	≤0.4	PASS
2DH5	Ant1	Hop	2.896	106.67	0.309	≤0.4	PASS
3DH5	Ant1	Hop	2.896	106.67	0.309	≤0.4	PASS



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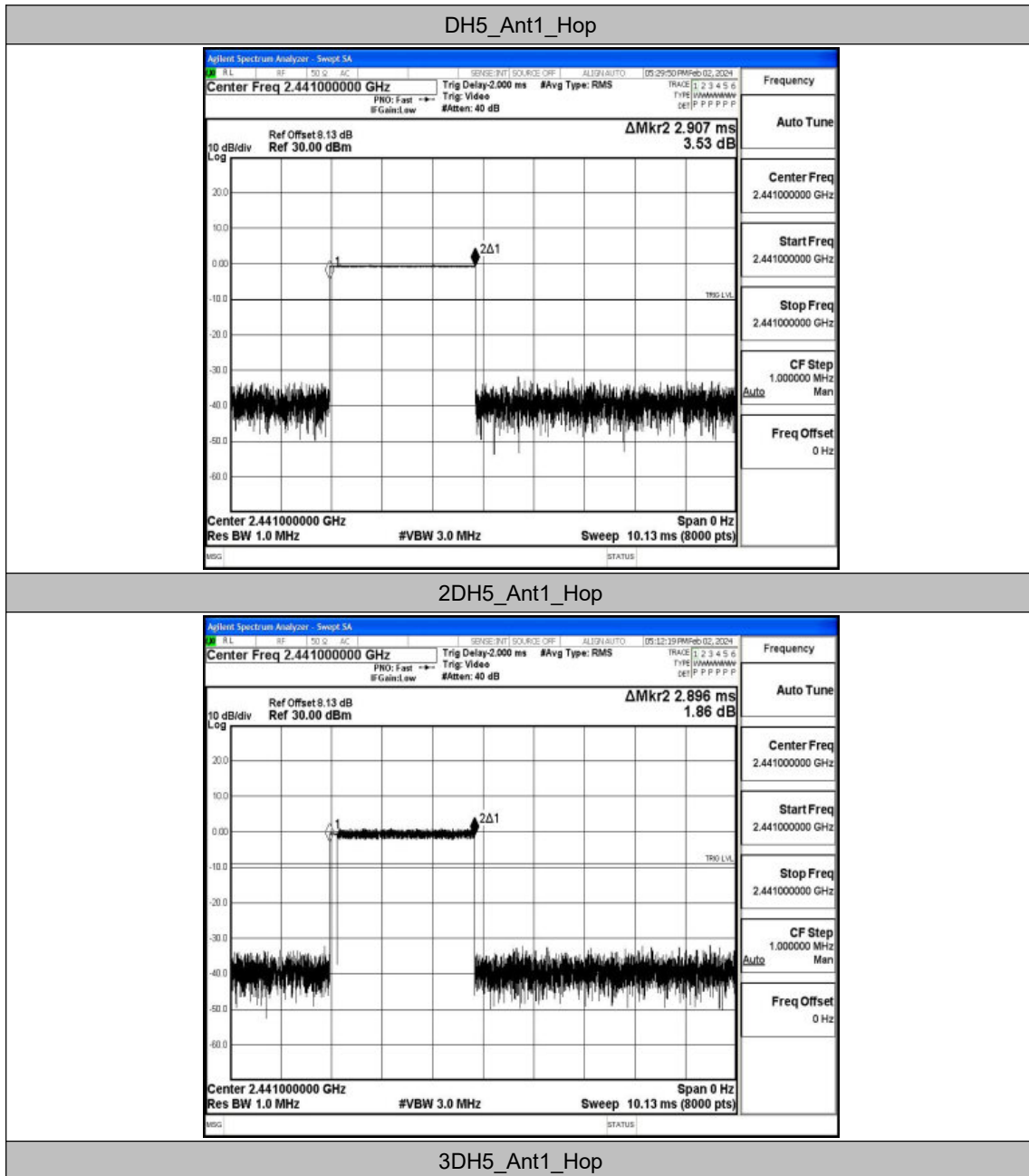
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Test Graphs

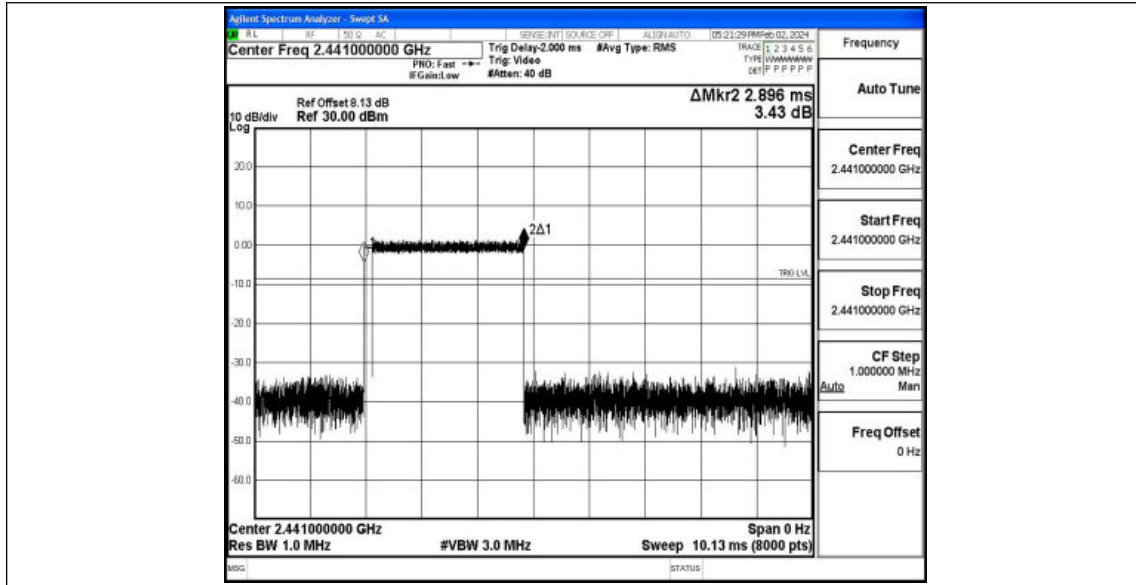


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A.5 Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	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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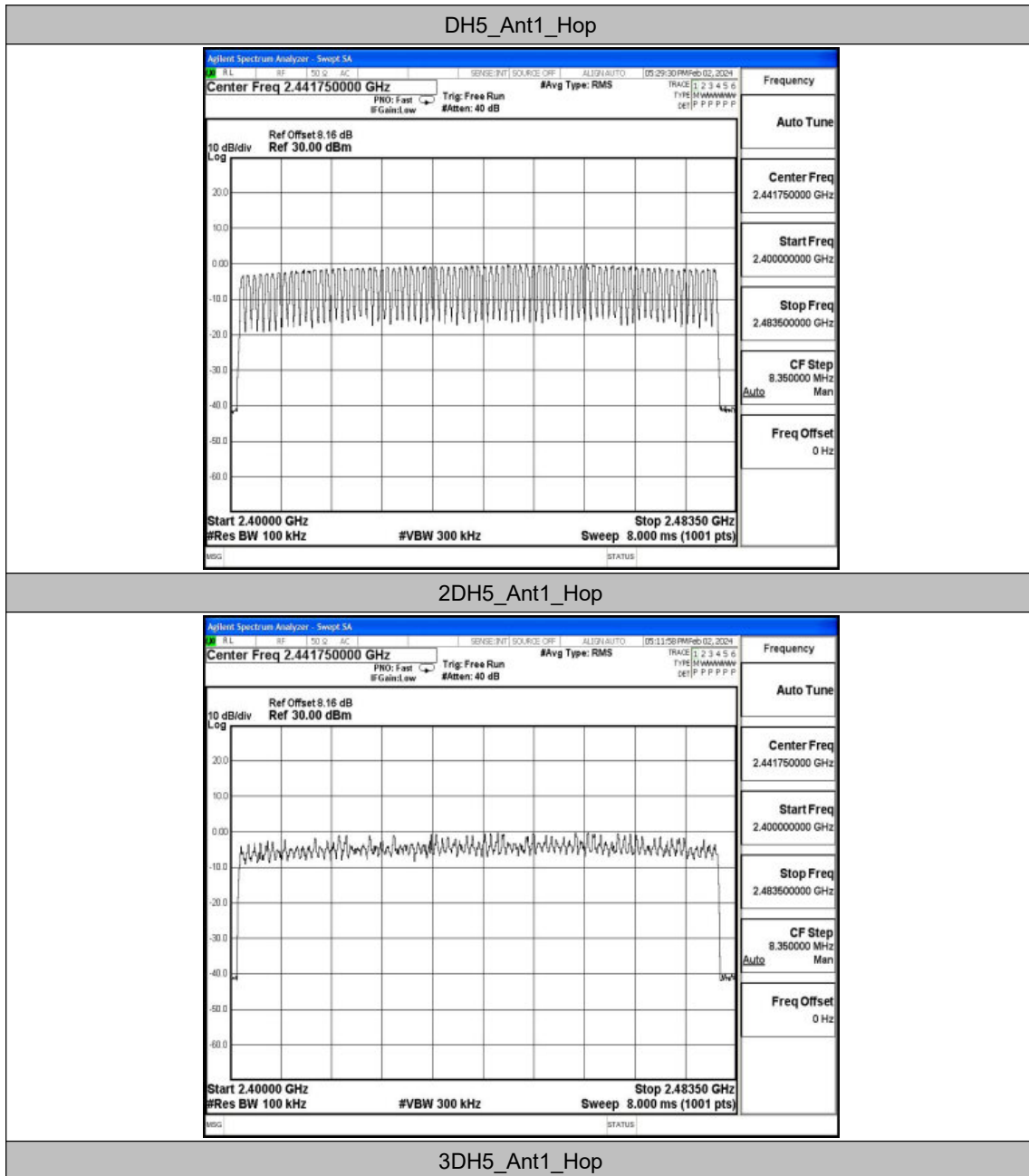
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Test Graphs

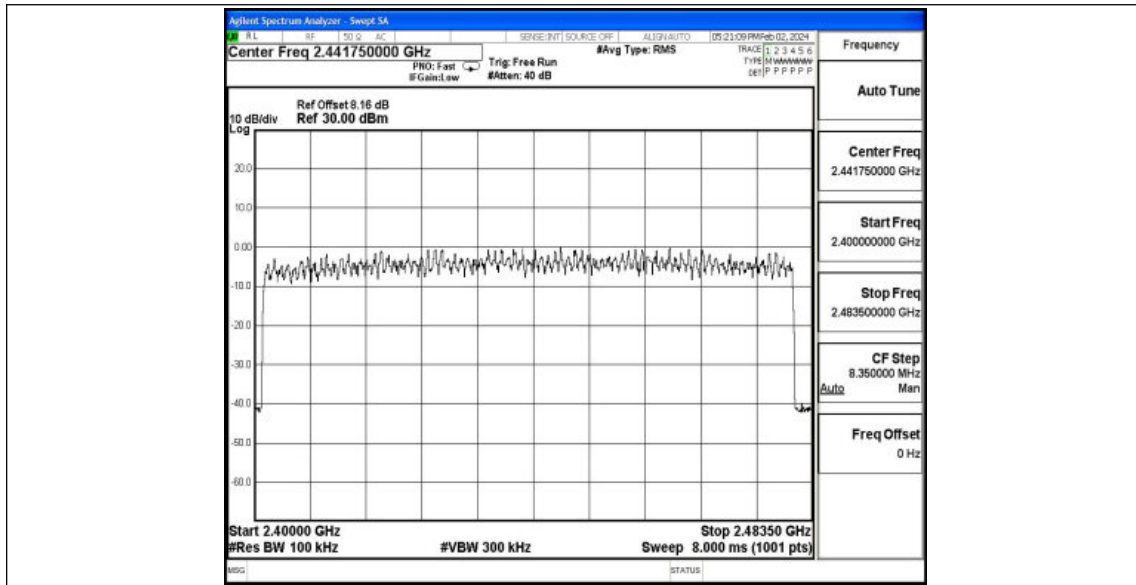


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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.45	-51.05	≤ -20.45	PASS
		High	2480	-1.65	-51.17	≤ -21.65	PASS
		Low	Hop_2402	-3.50	-50.01	≤ -23.5	PASS
		High	Hop_2480	-1.40	-49.1	≤ -21.4	PASS
2DH5	Ant1	Low	2402	-3.30	-50.91	≤ -23.3	PASS
		High	2480	-1.67	-50.42	≤ -21.67	PASS
		Low	Hop_2402	-6.38	-49.97	≤ -26.38	PASS
		High	Hop_2480	-1.84	-49.68	≤ -21.84	PASS
3DH5	Ant1	Low	2402	-3.26	-51.25	≤ -23.26	PASS
		High	2480	-1.67	-50.75	≤ -21.67	PASS
		Low	Hop_2402	-4.44	-49.97	≤ -24.44	PASS
		High	Hop_2480	-1.74	-49.58	≤ -21.74	PASS



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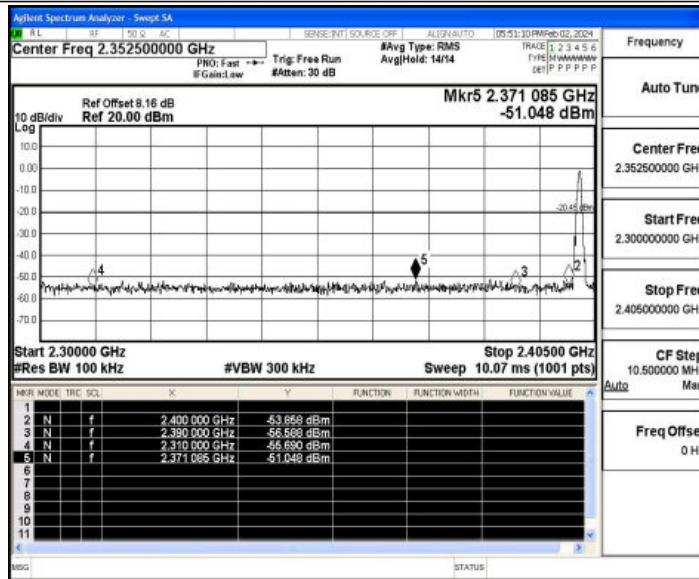
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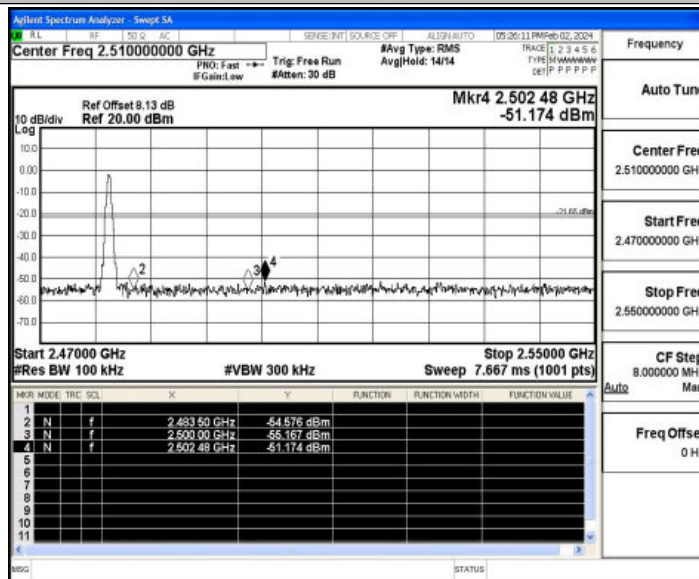


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

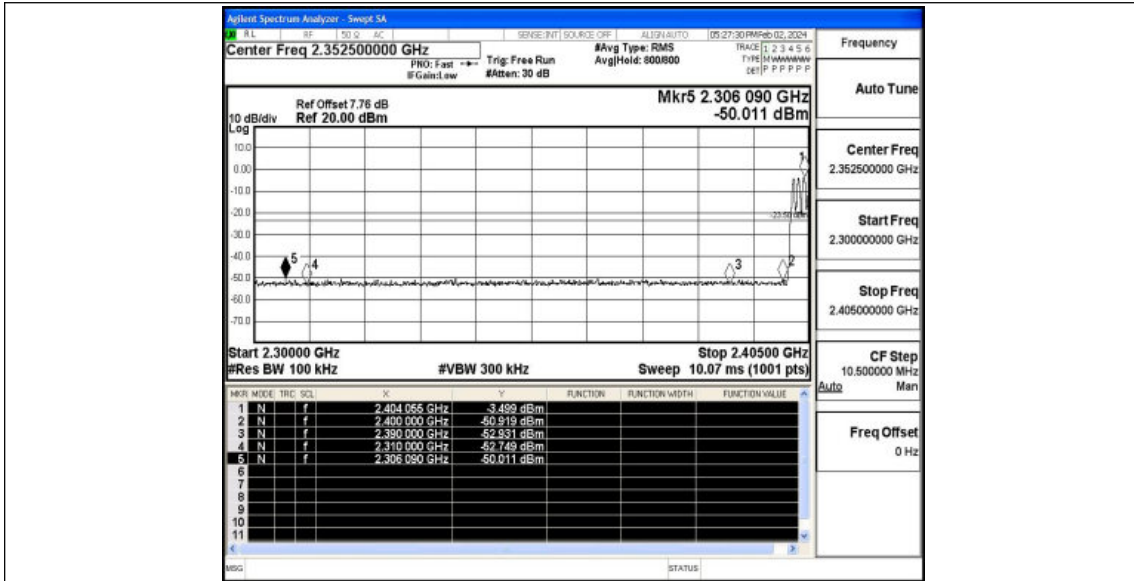


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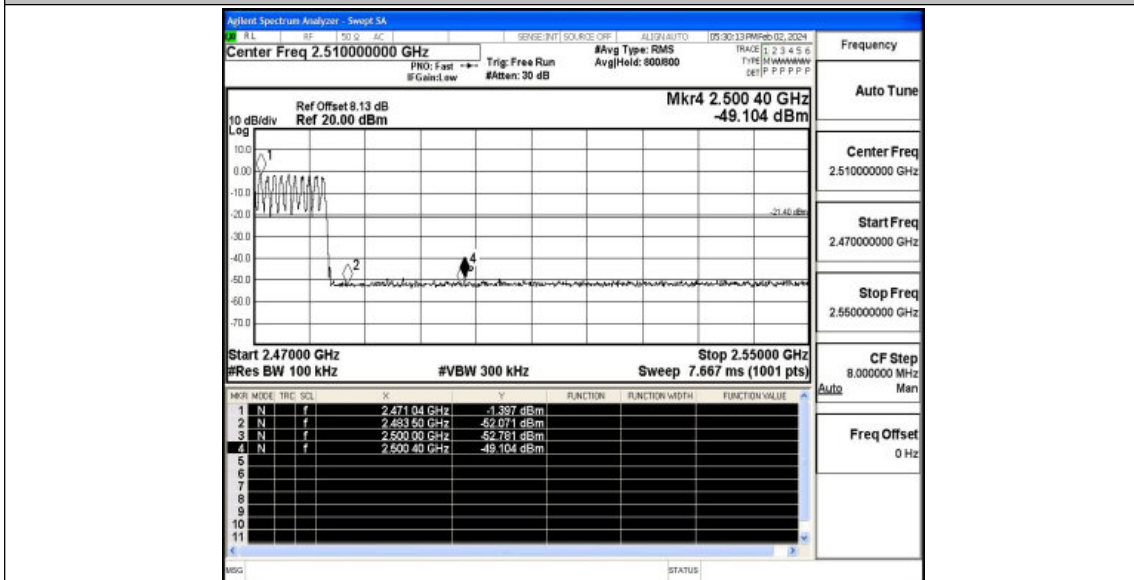
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

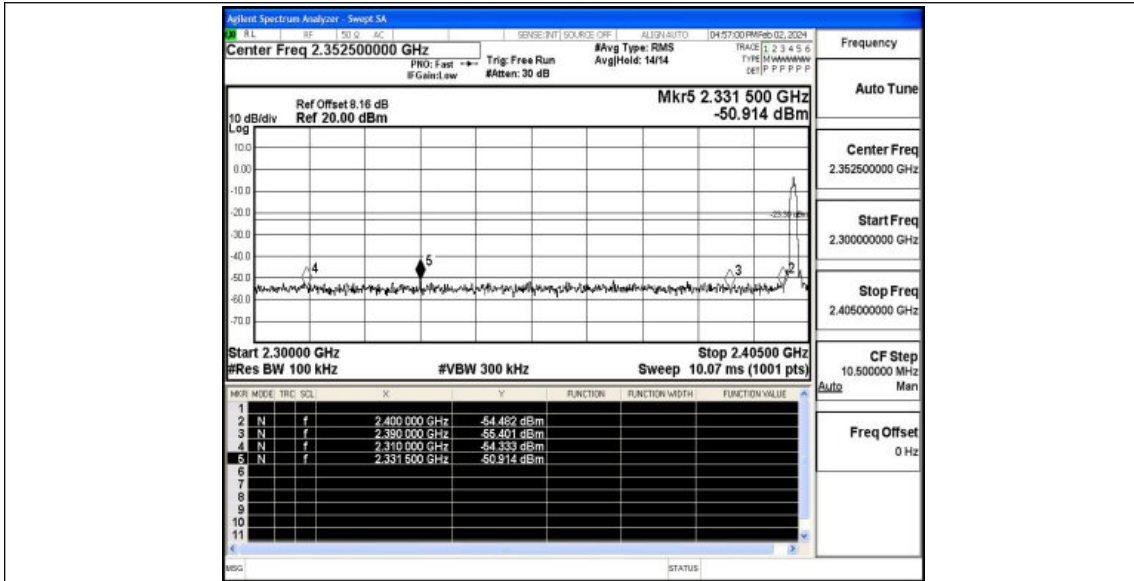


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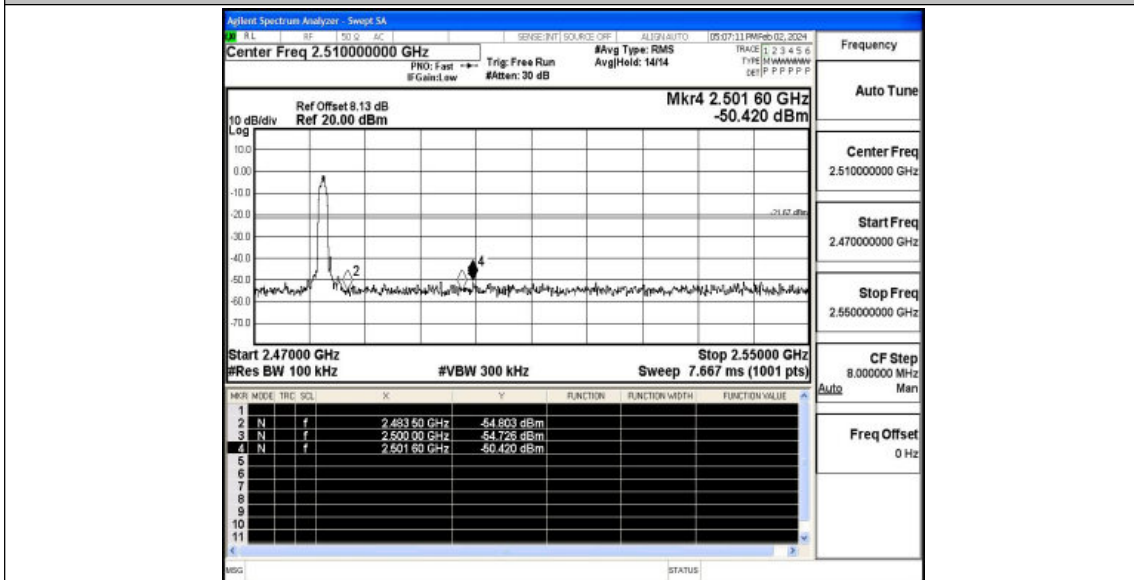
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

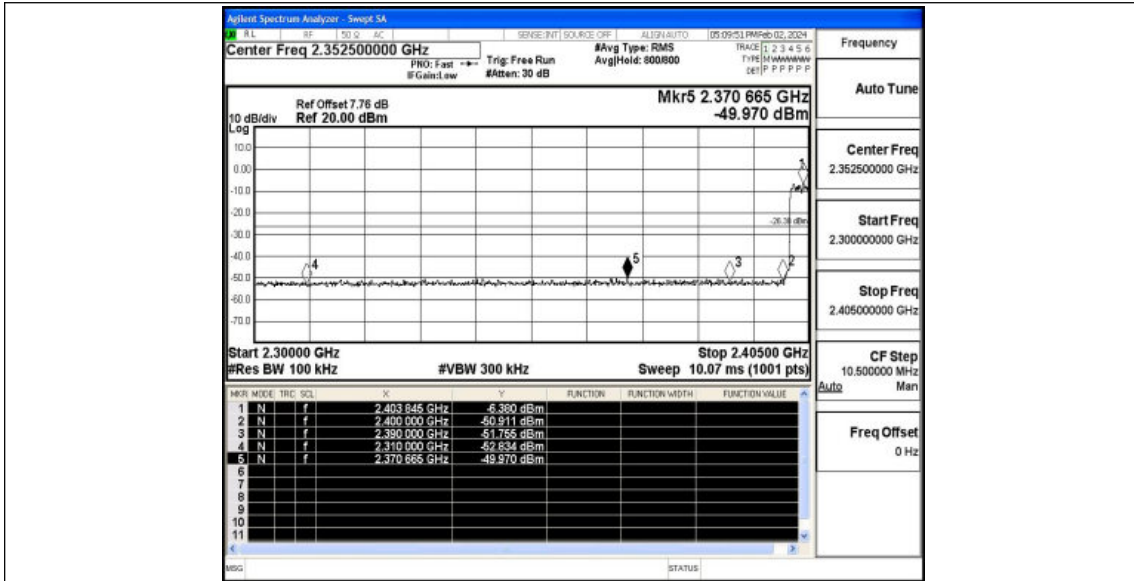


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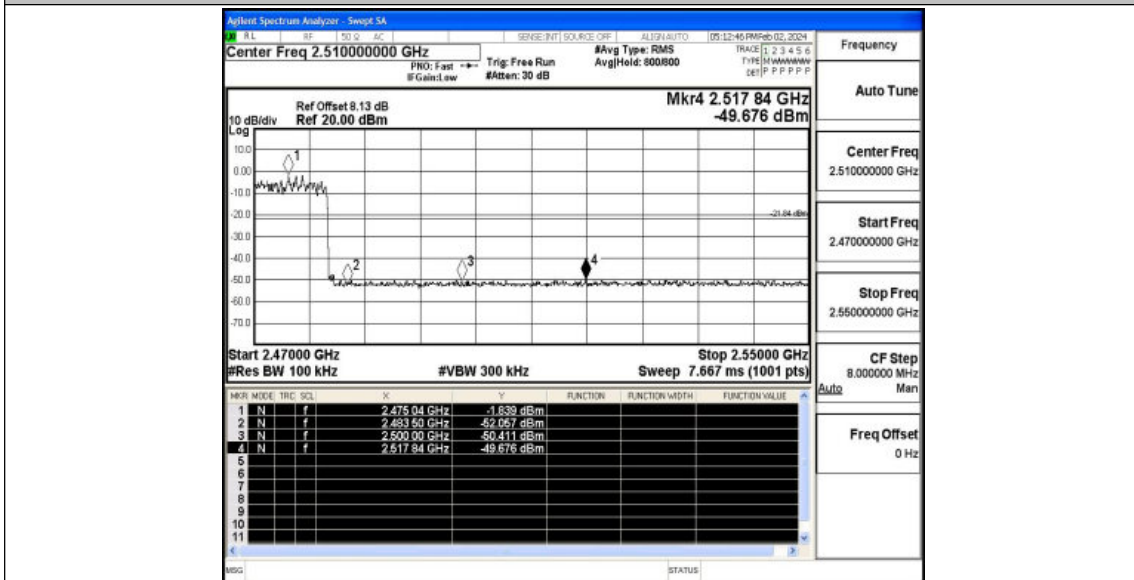
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

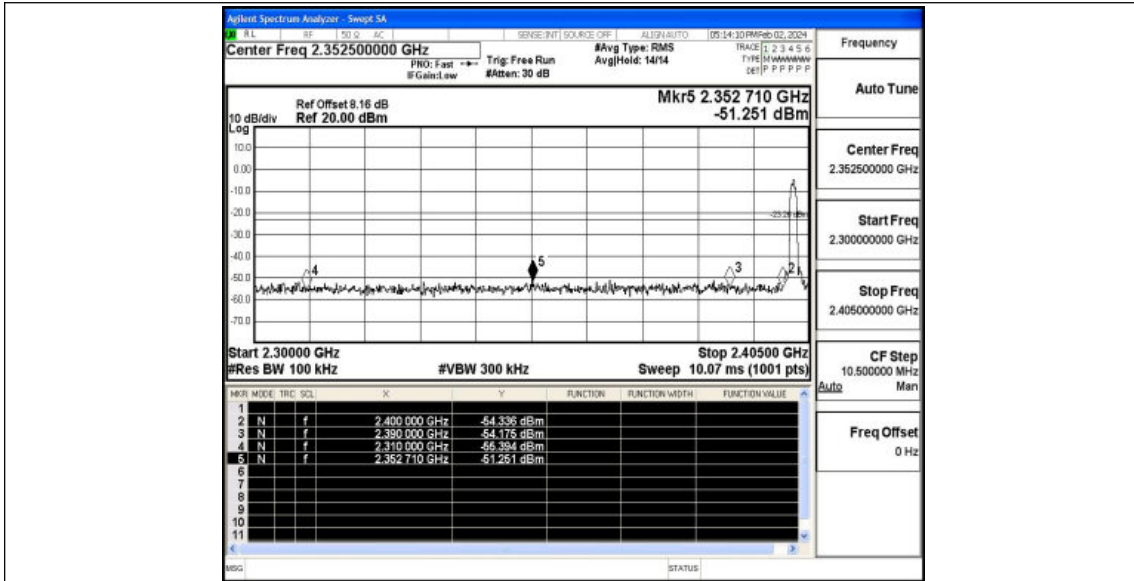


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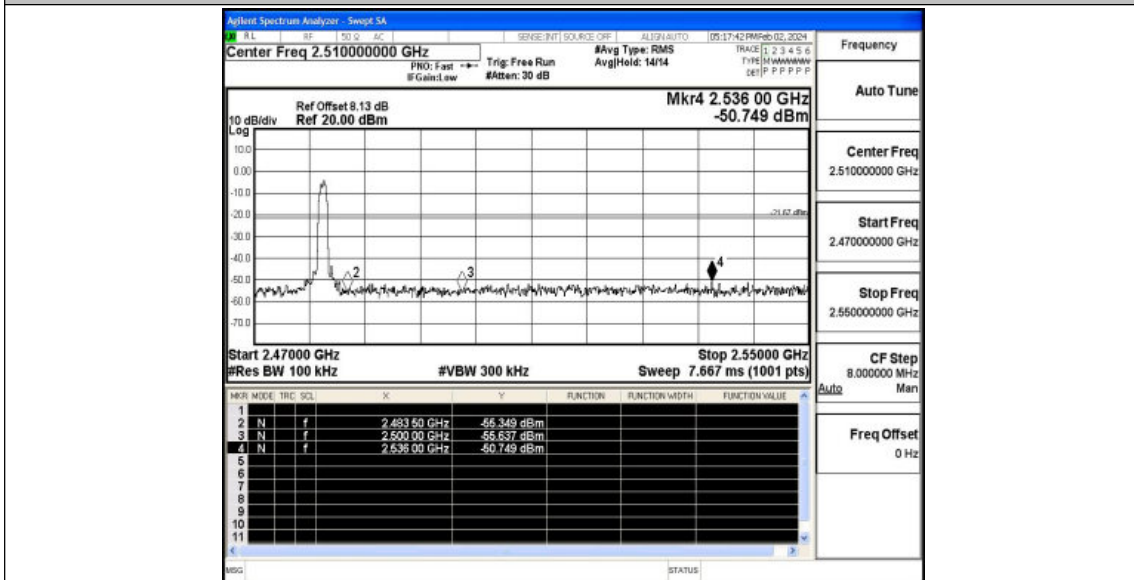
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

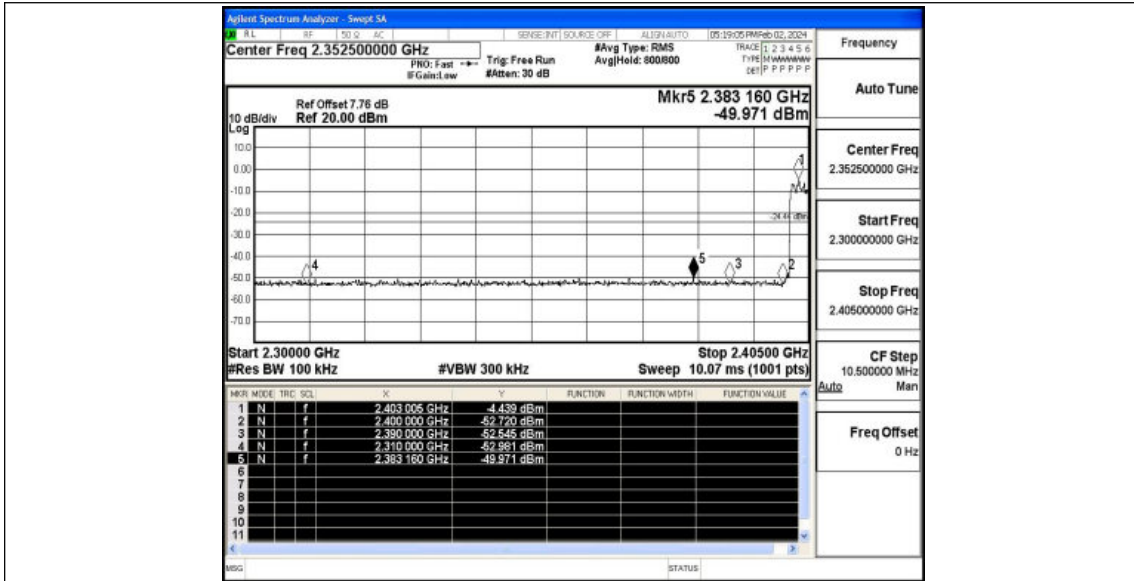


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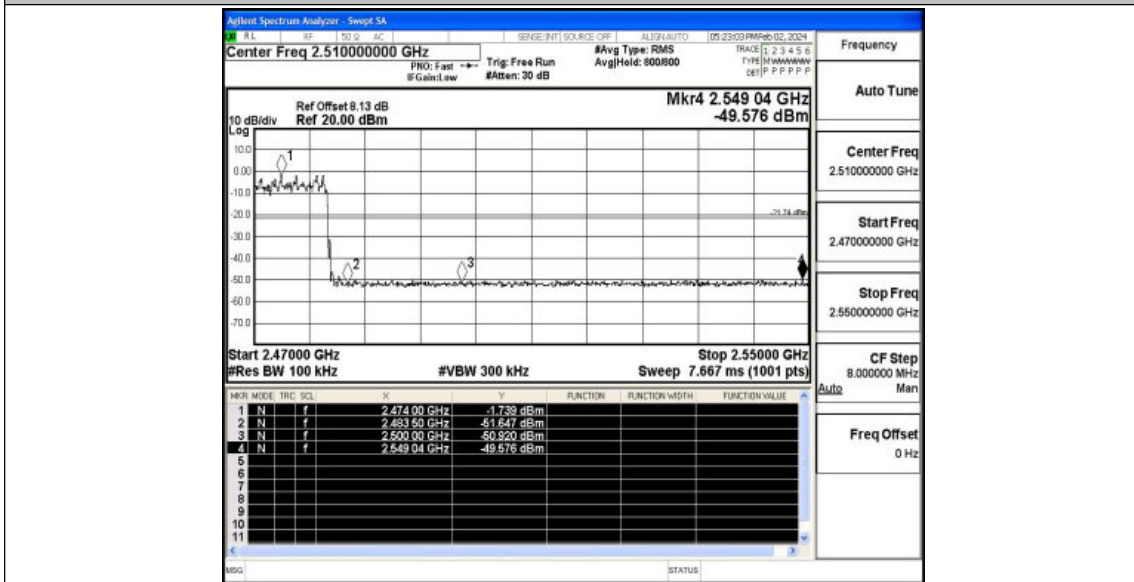
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3DH5_Ant1_High_Hop_2480



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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	30~1000	-0.45	-62.3	≤-20.45	PASS
			1000~26500	-0.45	-48.75	≤-20.45	PASS
		2441	30~1000	-1.18	-62.16	≤-21.18	PASS
			1000~26500	-1.18	-49.38	≤-21.18	PASS
		2480	30~1000	-1.65	-61.67	≤-21.65	PASS
			1000~26500	-1.65	-49.1	≤-21.65	PASS
2DH5	Ant1	2402	30~1000	-3.30	-61.74	≤-23.3	PASS
			1000~26500	-3.30	-48.69	≤-23.3	PASS
		2441	30~1000	-0.72	-61.9	≤-20.72	PASS
			1000~26500	-0.72	-49.48	≤-20.72	PASS
		2480	30~1000	-1.67	-60.81	≤-21.67	PASS
			1000~26500	-1.67	-48.67	≤-21.67	PASS
3DH5	Ant1	2402	30~1000	-3.26	-61.81	≤-23.26	PASS
			1000~26500	-3.26	-49.48	≤-23.26	PASS
		2441	30~1000	-1.28	-60.3	≤-21.28	PASS
			1000~26500	-1.28	-49.09	≤-21.28	PASS
		2480	30~1000	-1.67	-61.2	≤-21.67	PASS
			1000~26500	-1.67	-49.02	≤-21.67	PASS



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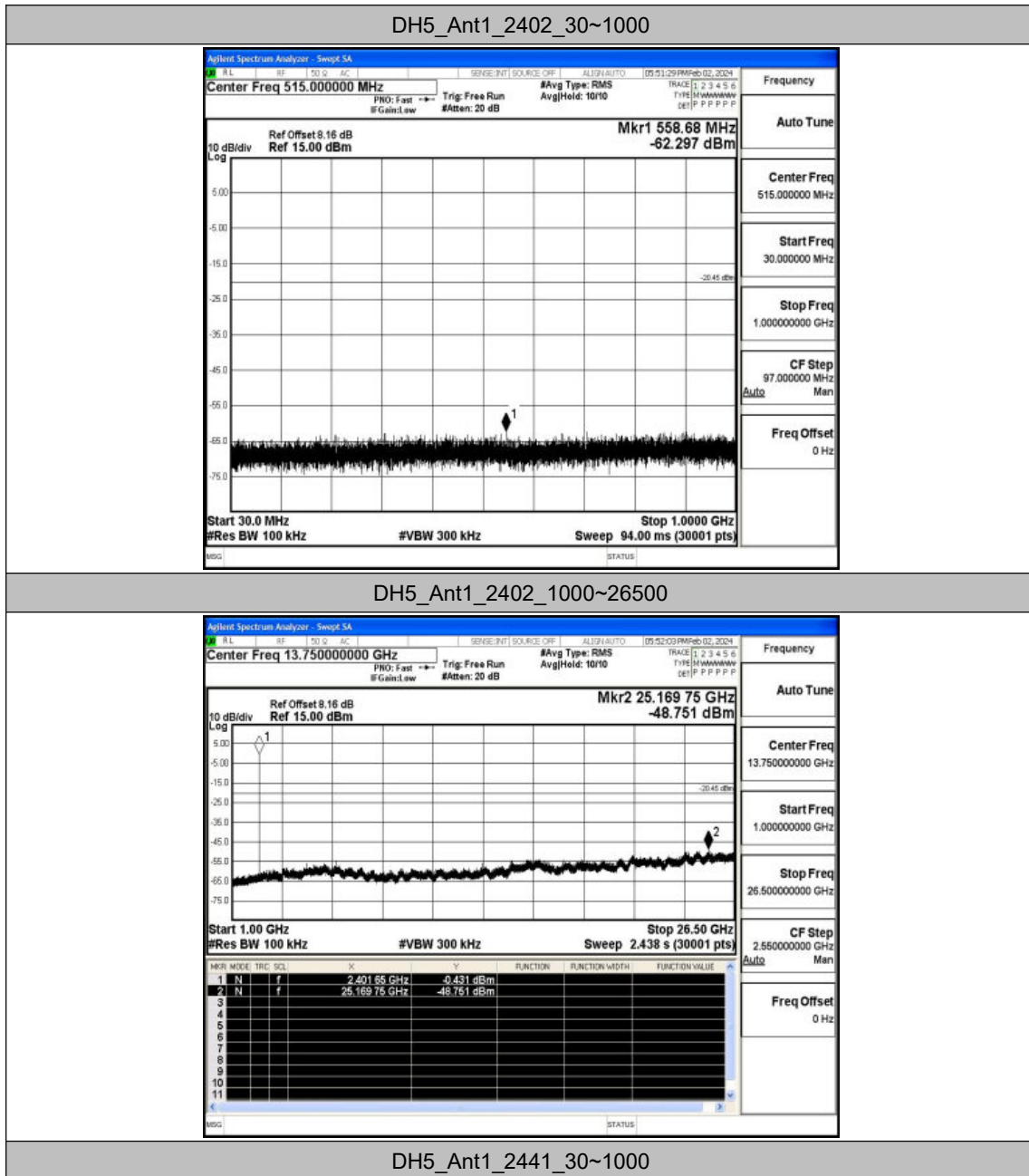
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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Test Graphs

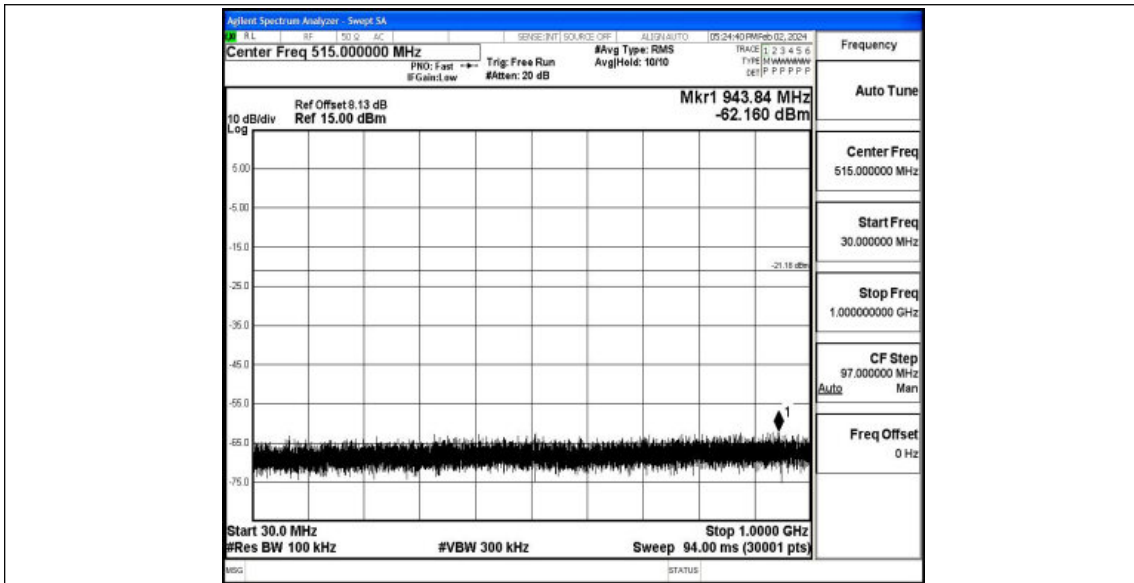


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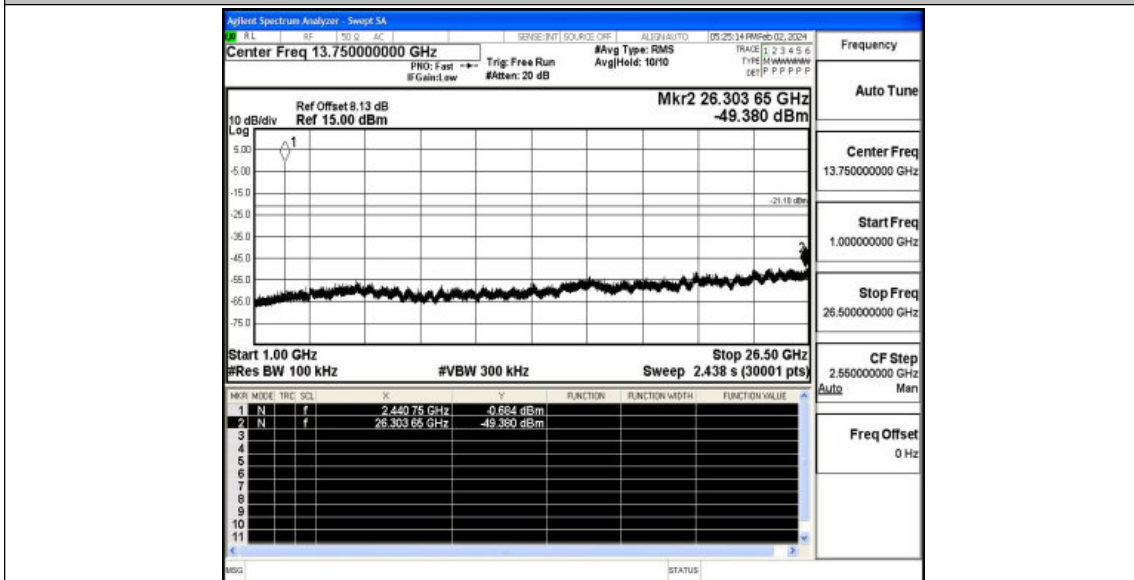
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_30~1000

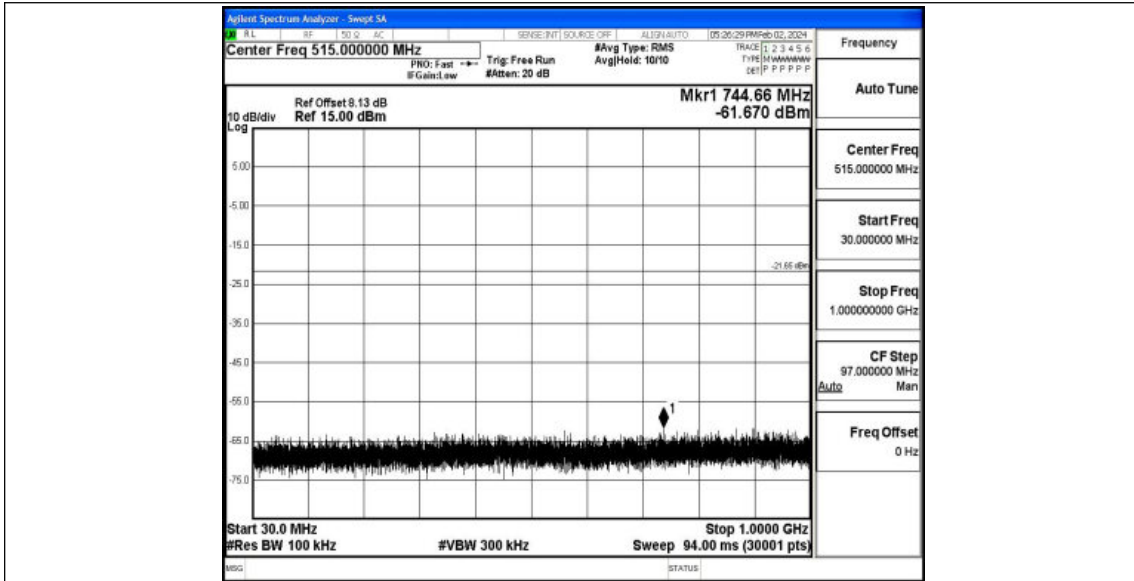


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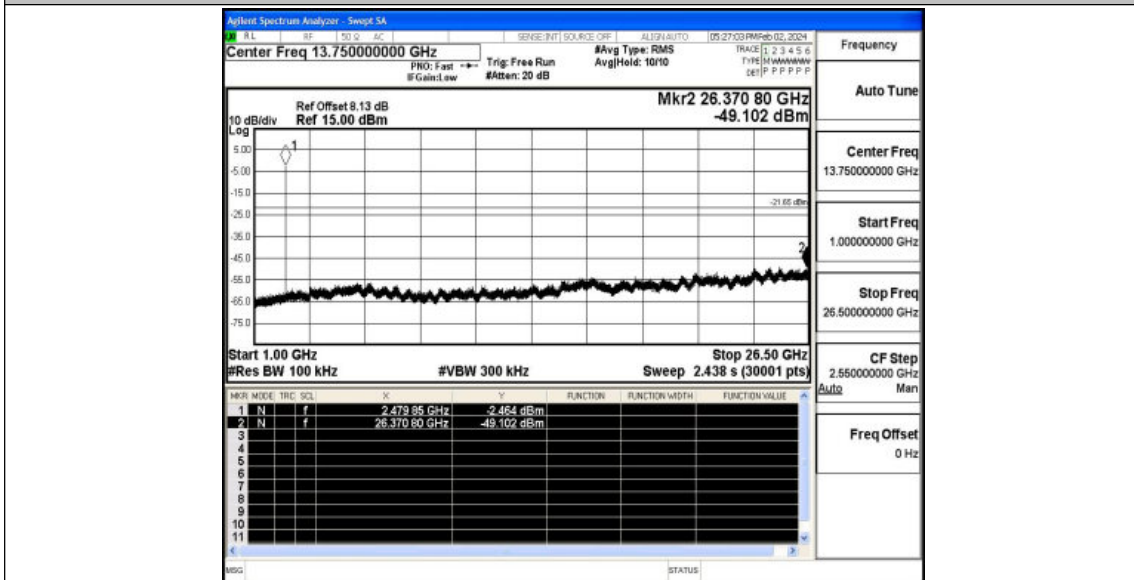
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_30~1000

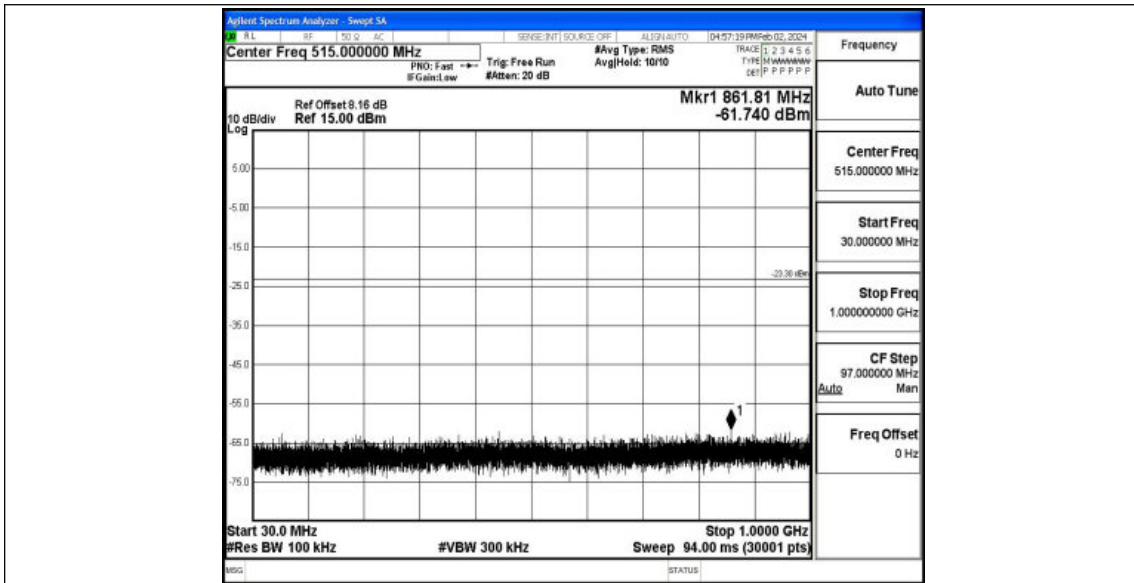


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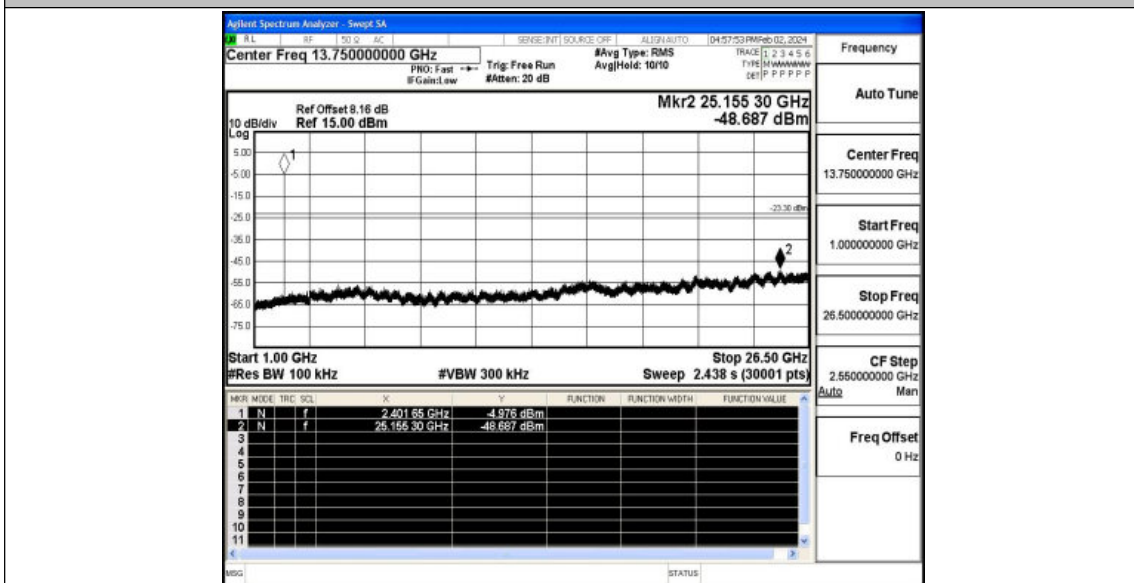
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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_30~1000

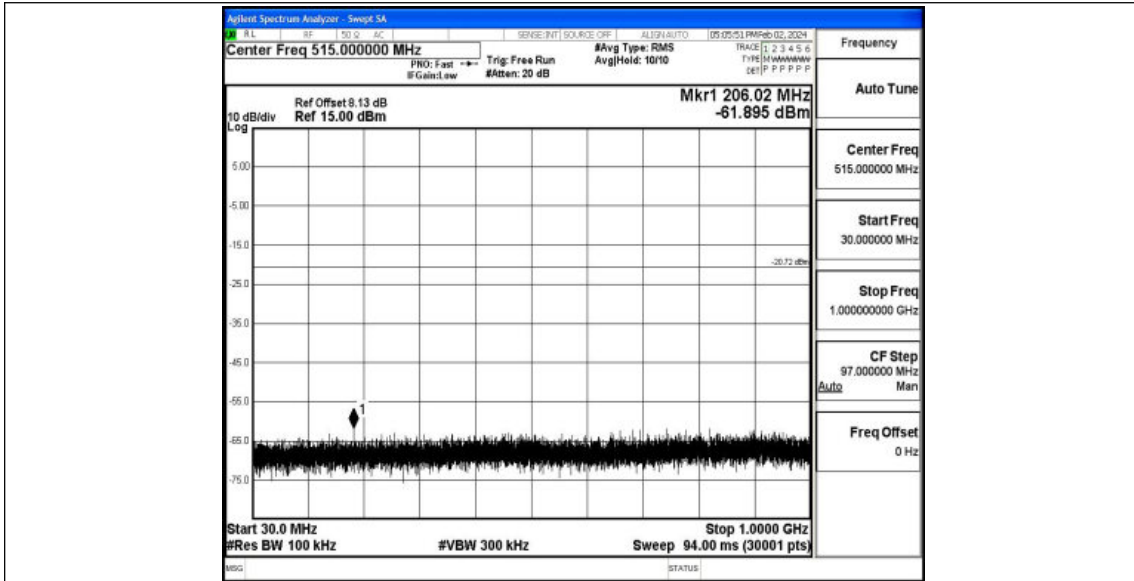


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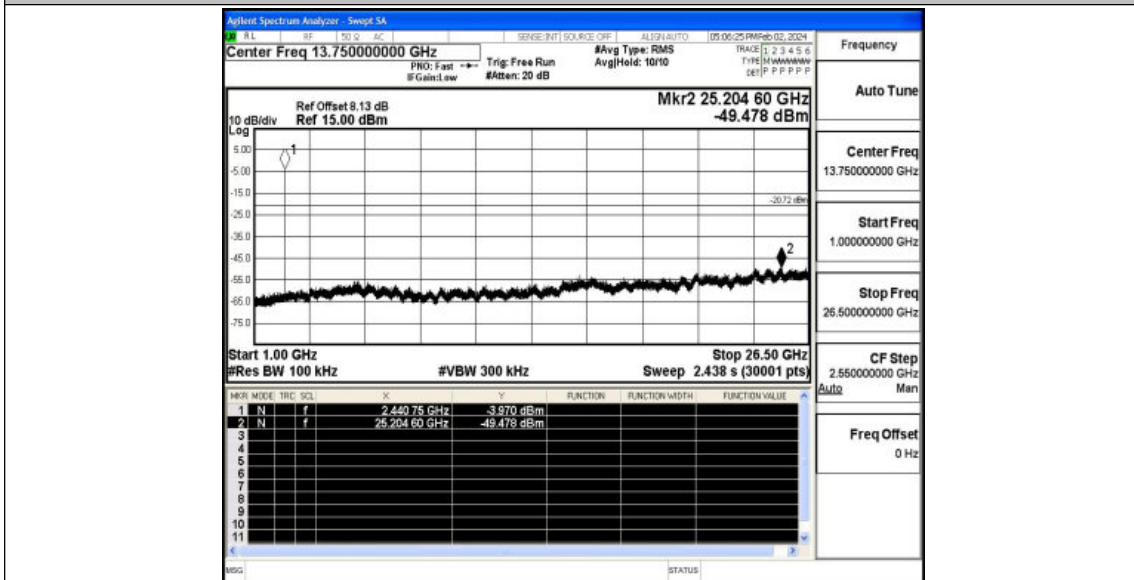
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_2441_1000~26500



2DH5_Ant1_2480_30~1000

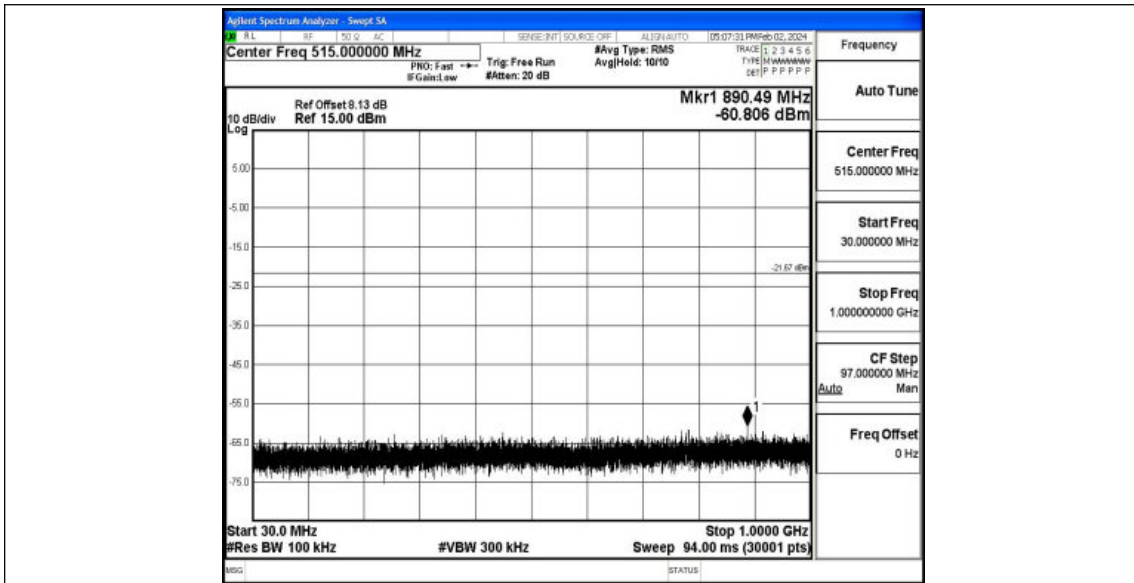


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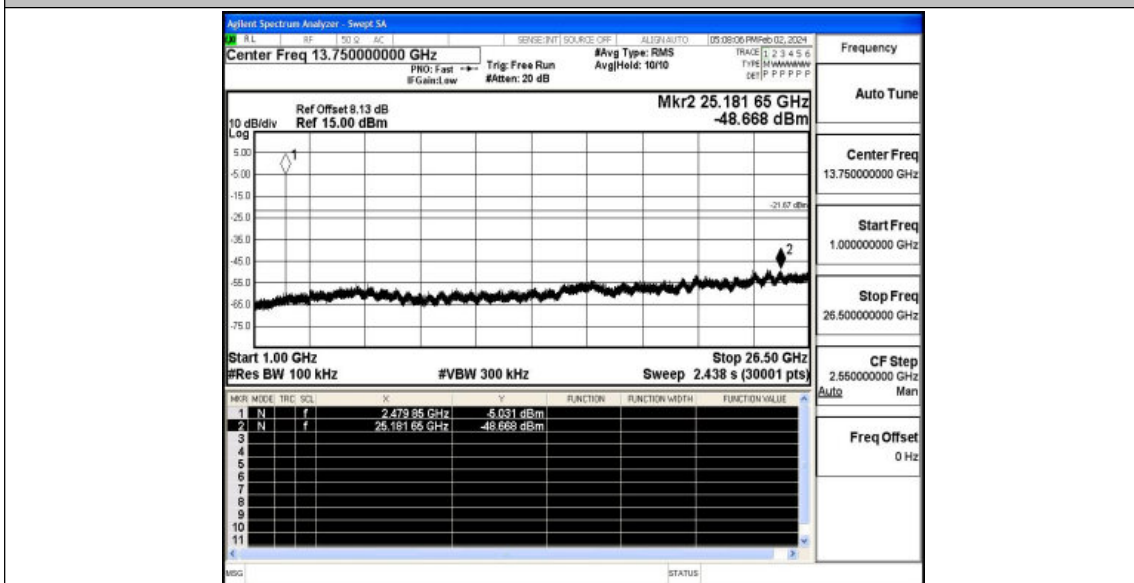
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_30~1000

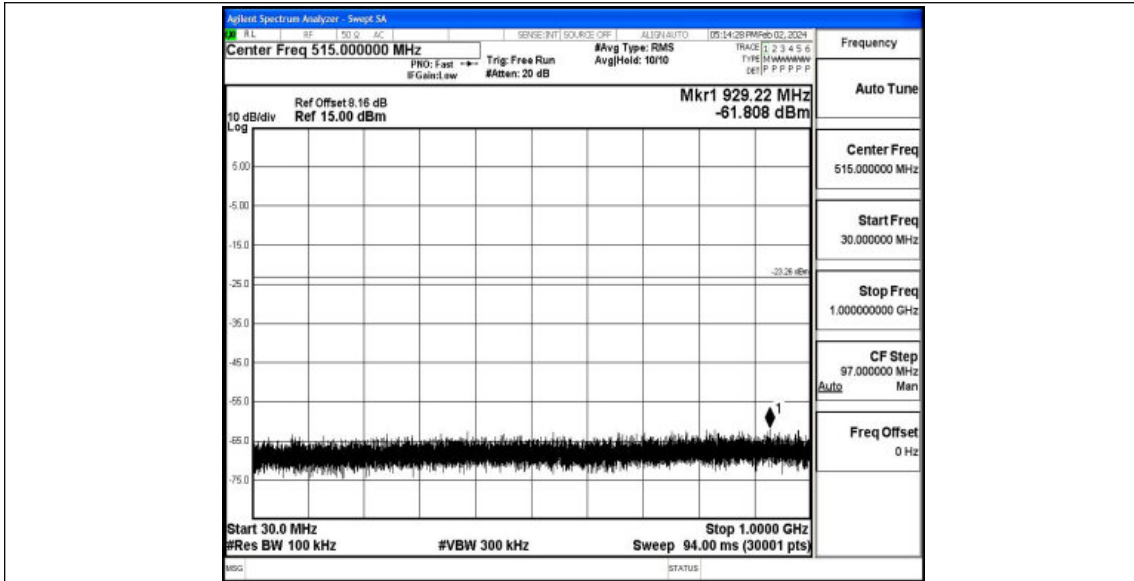


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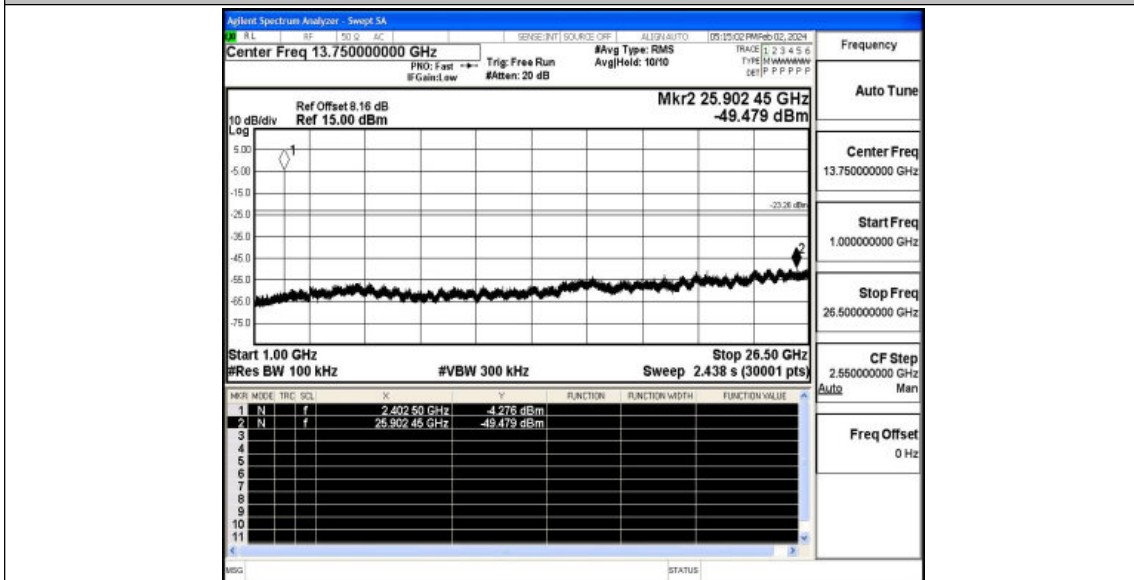
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_30~1000

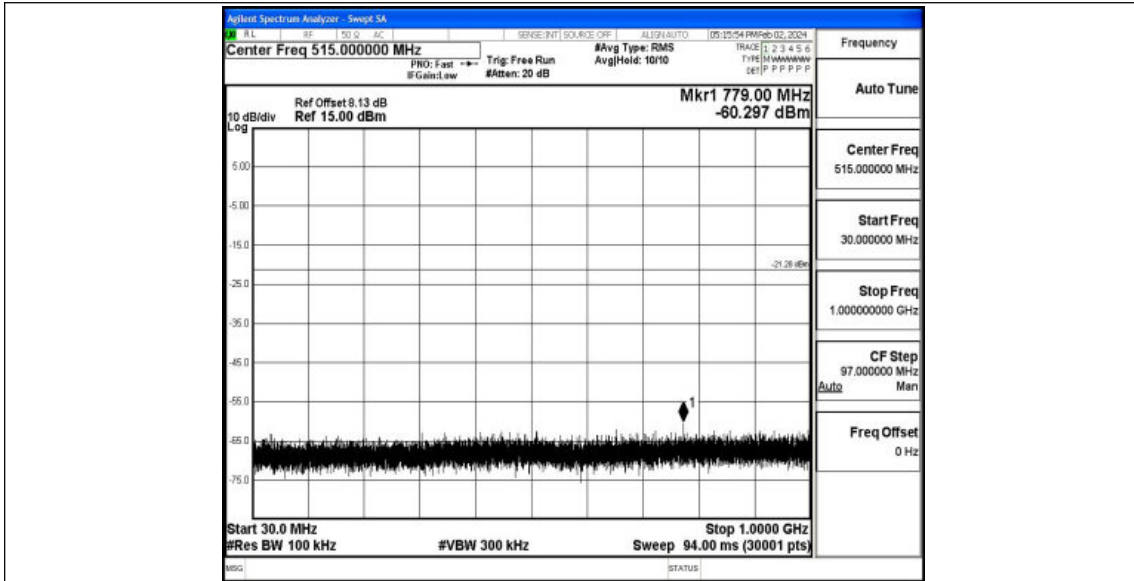


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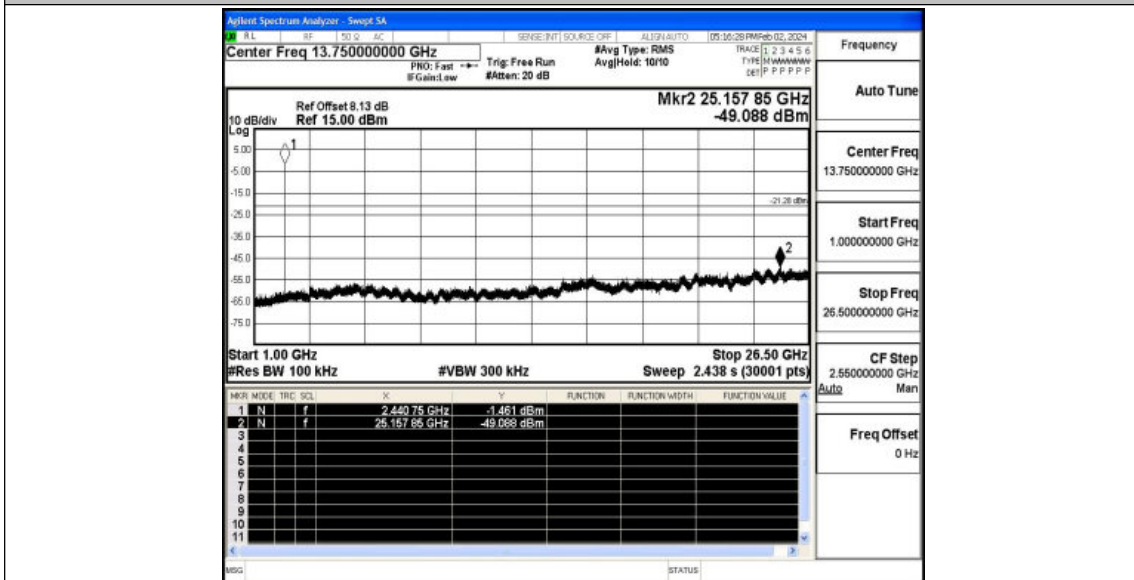
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_30~1000

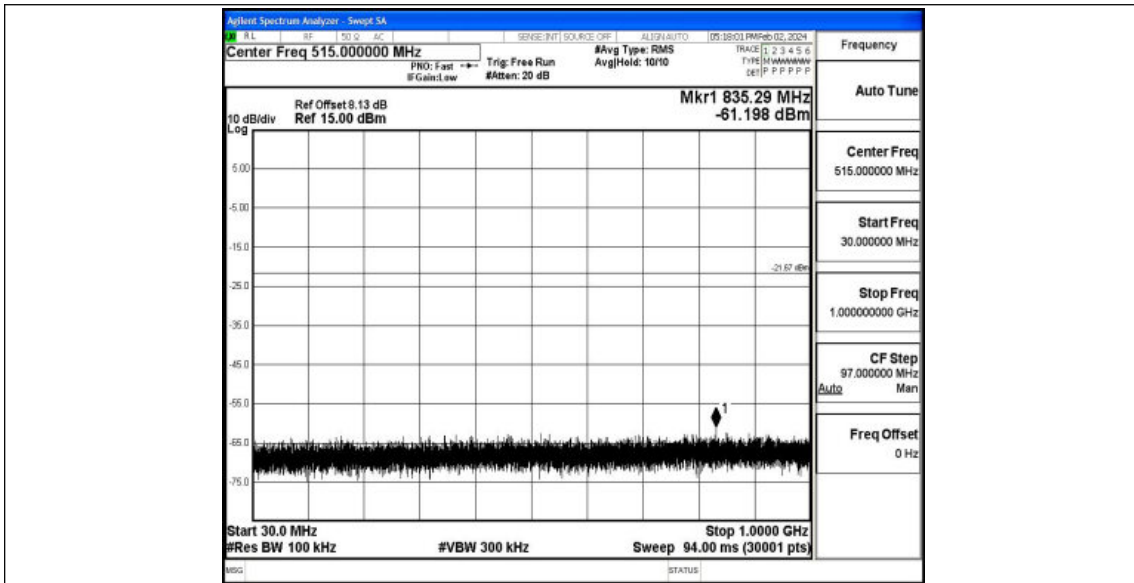


Shenzhen LCS Compliance Testing Laboratory Ltd.

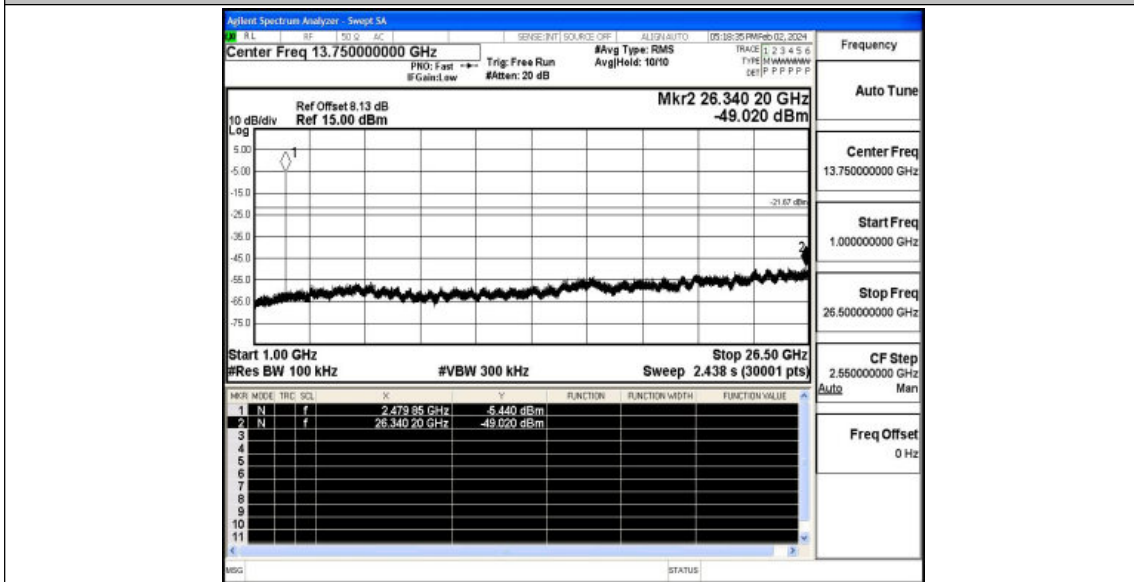
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3DH5_Ant1_2480_1000~26500



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Reference Level

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	2402.18	-0.45	---	PASS
		2441	2441.06	-1.18	---	PASS
		2480	2479.83	-1.65	---	PASS
2DH5	Ant1	2402	2402.00	-3.30	---	PASS
		2441	2440.99	-0.72	---	PASS
		2480	2480.16	-1.67	---	PASS
3DH5	Ant1	2402	2401.85	-3.26	---	PASS
		2441	2440.99	-1.28	---	PASS
		2480	2480.16	-1.67	---	PASS



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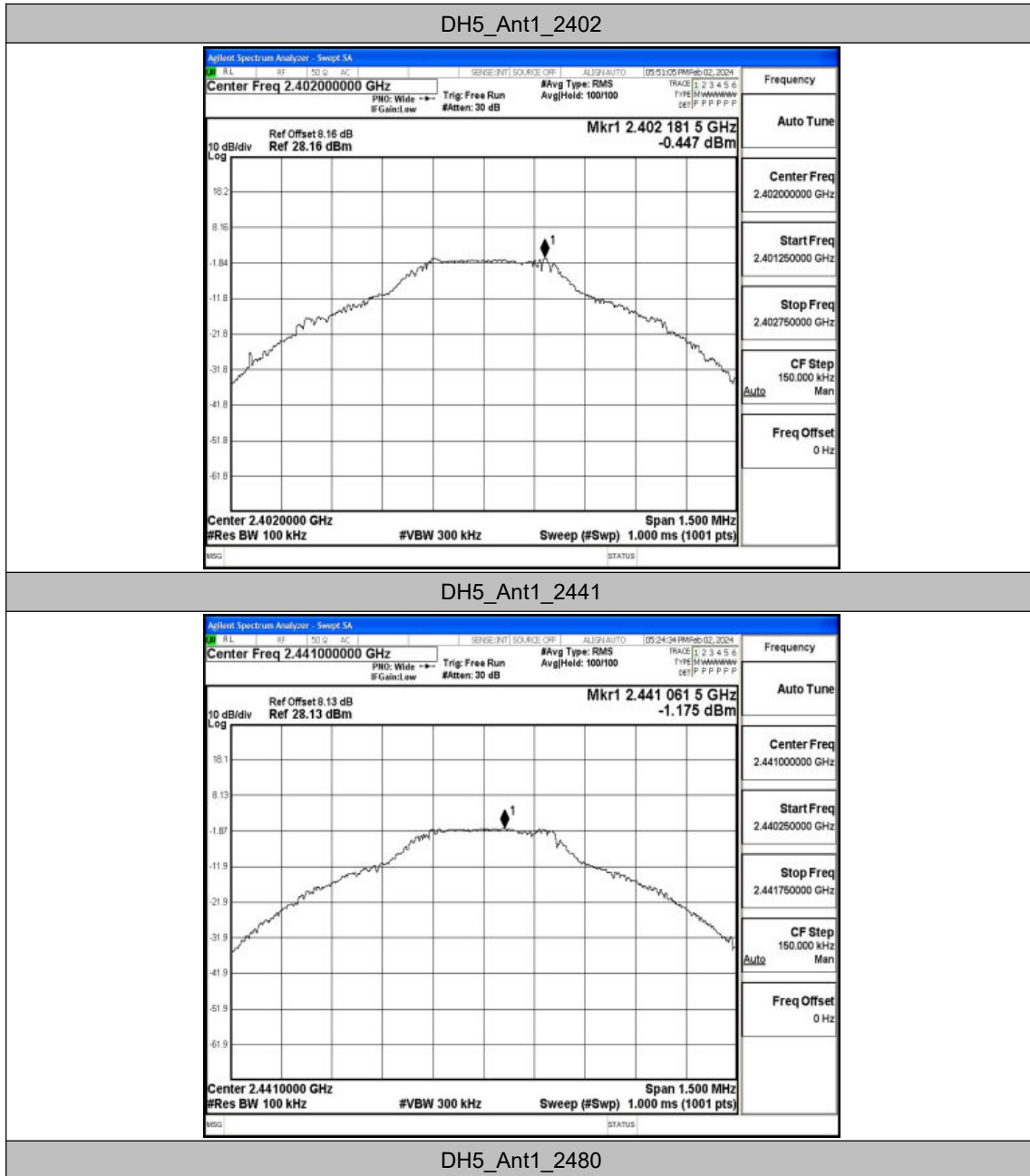
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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Test Graphs

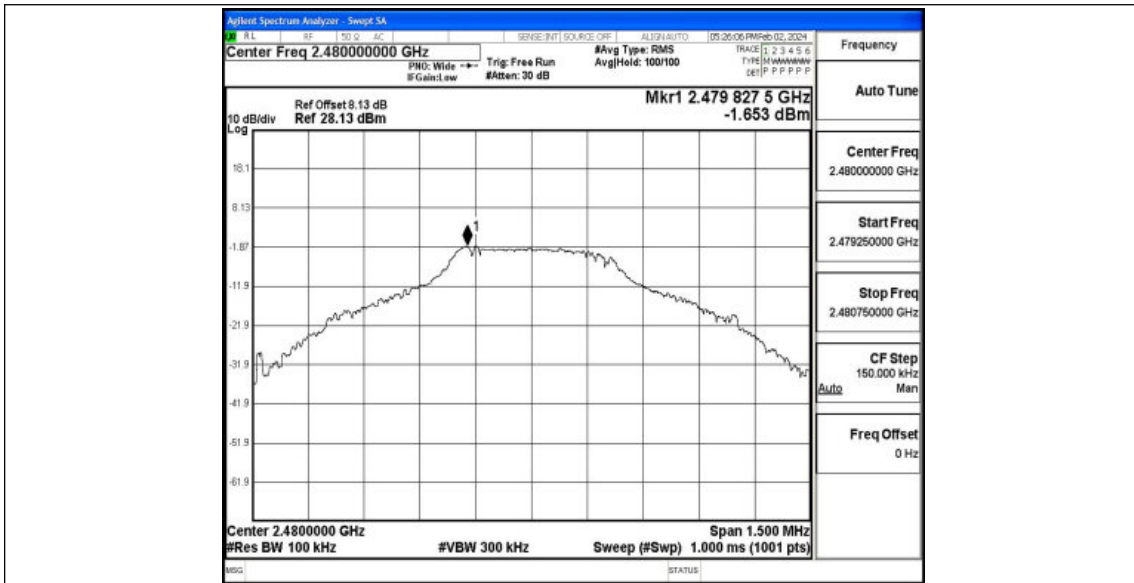


Shenzhen LCS Compliance Testing Laboratory Ltd.

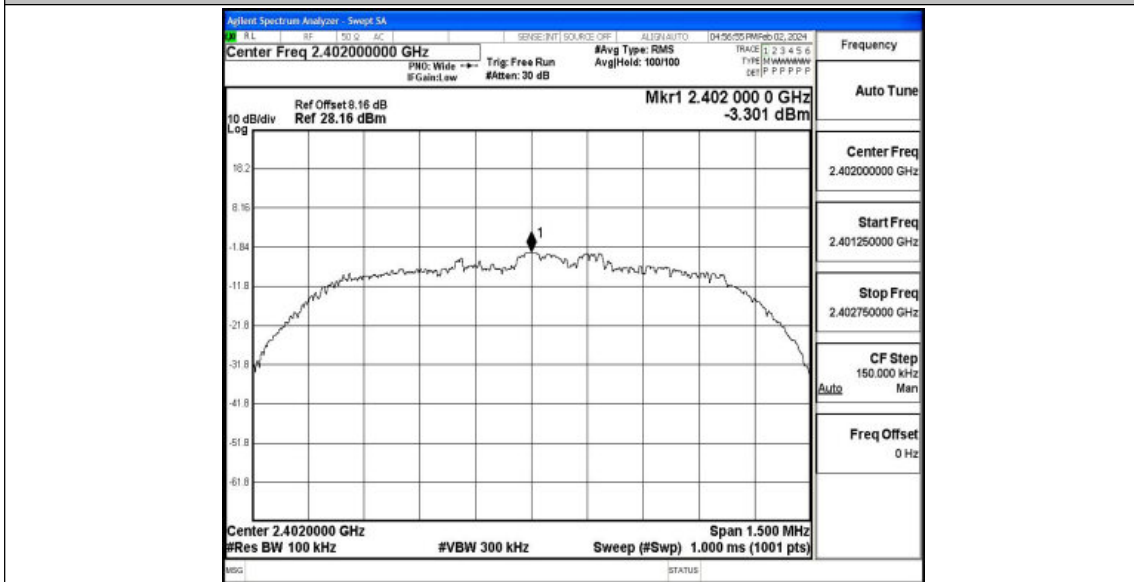
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_2402



2DH5_Ant1_2441

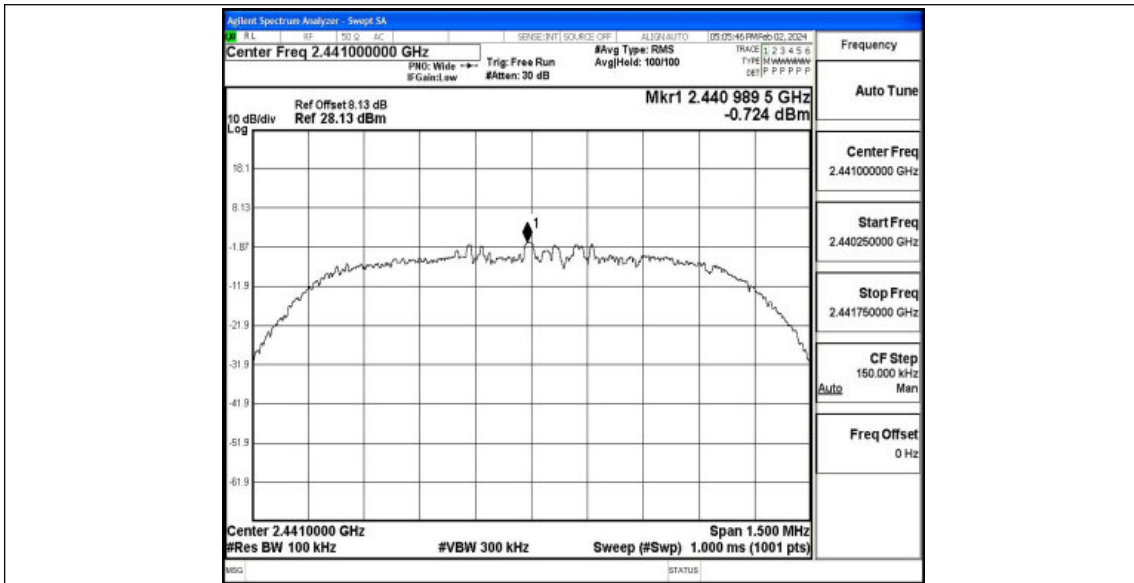


Shenzhen LCS Compliance Testing Laboratory Ltd.

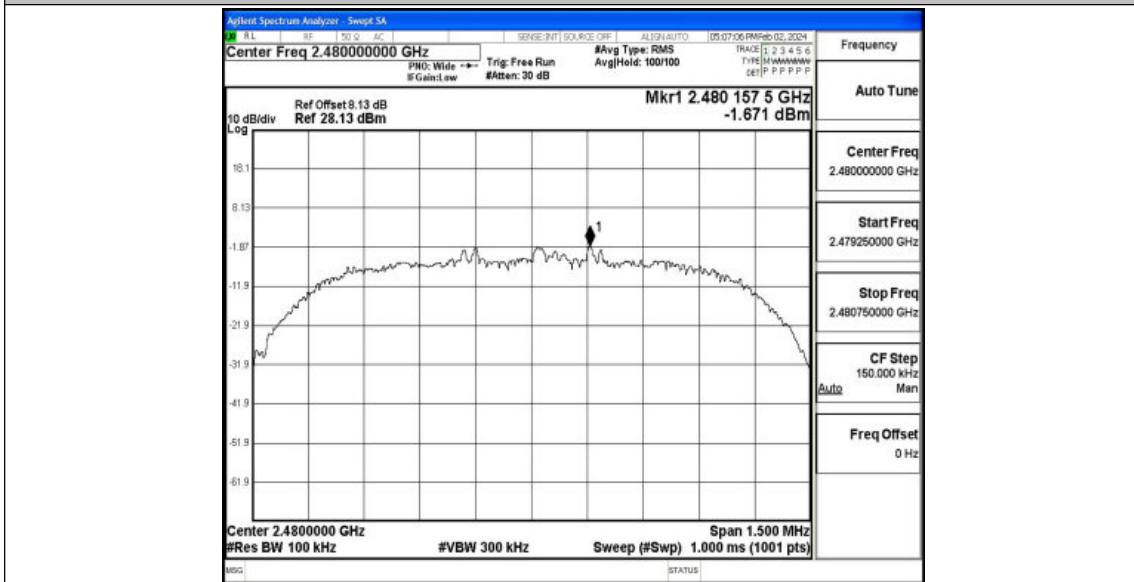
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_2480



3DH5_Ant1_2402

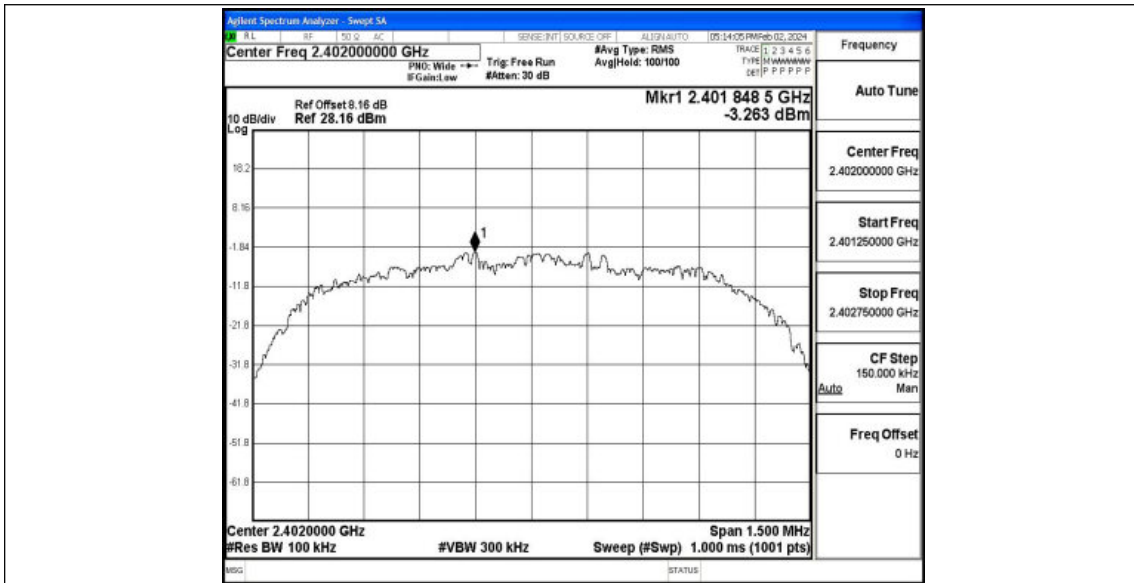


Shenzhen LCS Compliance Testing Laboratory Ltd.

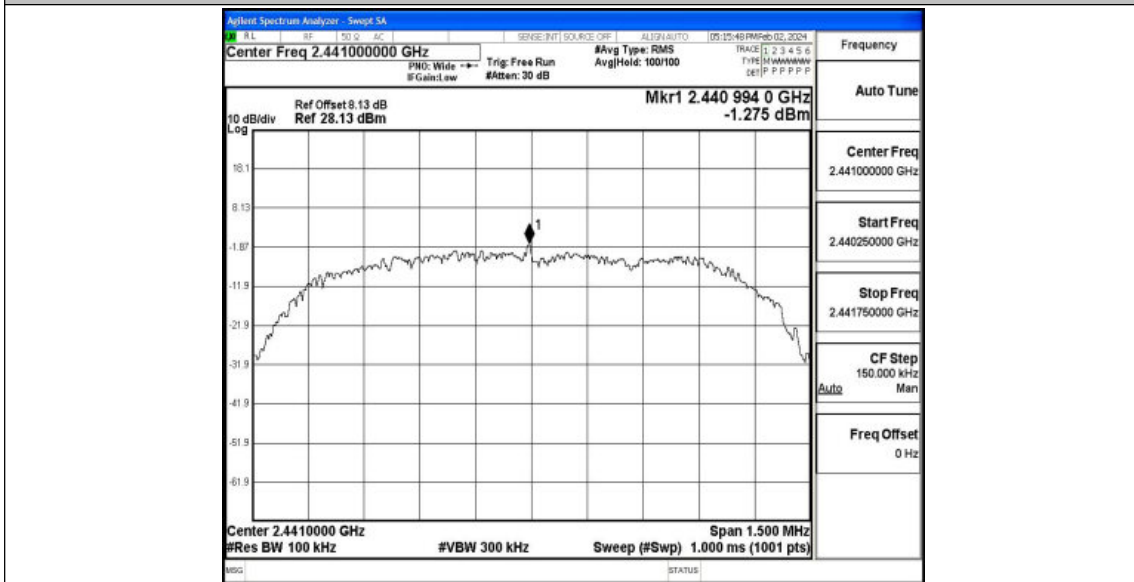
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5_Ant1_2441



3DH5_Ant1_2480

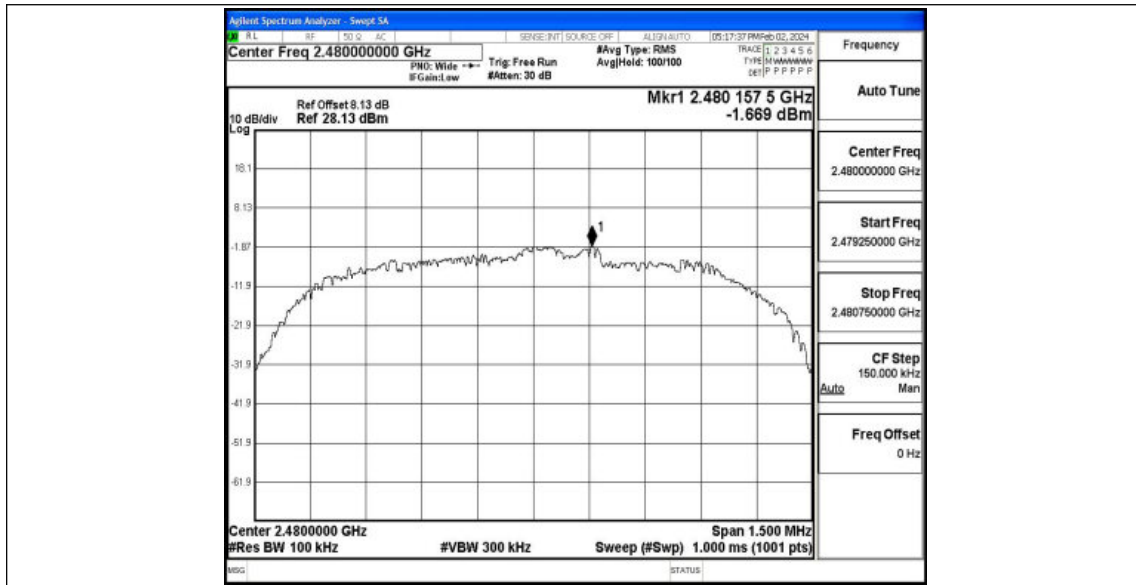


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A.8 Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[kHz]
DH5	Ant1	2402	2.91	3.75	77.60	1.10	0.34
		2441	2.91	3.75	77.60	1.10	0.34
		2480	2.91	3.75	77.60	1.10	0.34
2DH5	Ant1	2402	2.90	3.75	77.33	1.12	0.34
		2441	2.90	3.75	77.33	1.12	0.34
		2480	2.90	3.75	77.33	1.12	0.34
3DH5	Ant1	2402	2.90	3.75	77.33	1.12	0.34
		2441	2.90	3.75	77.33	1.12	0.34
		2480	2.90	3.75	77.33	1.12	0.34



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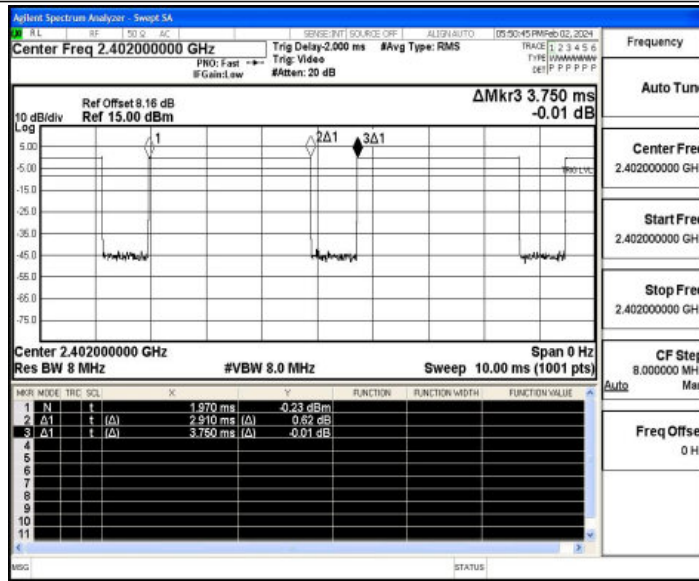
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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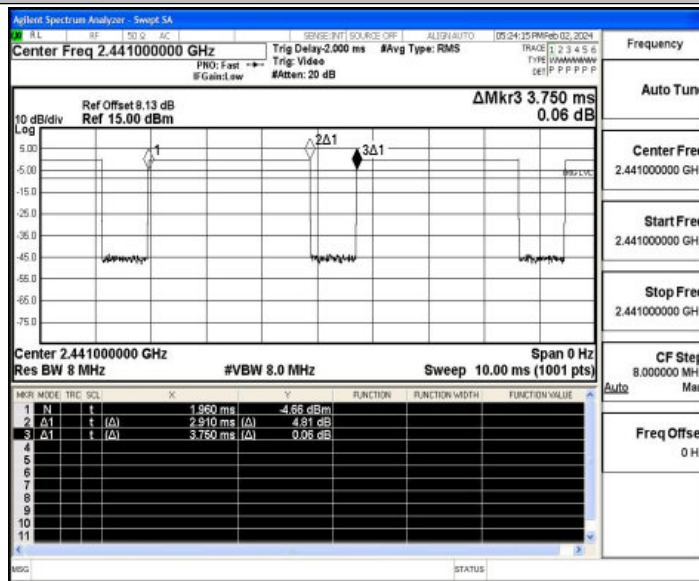


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

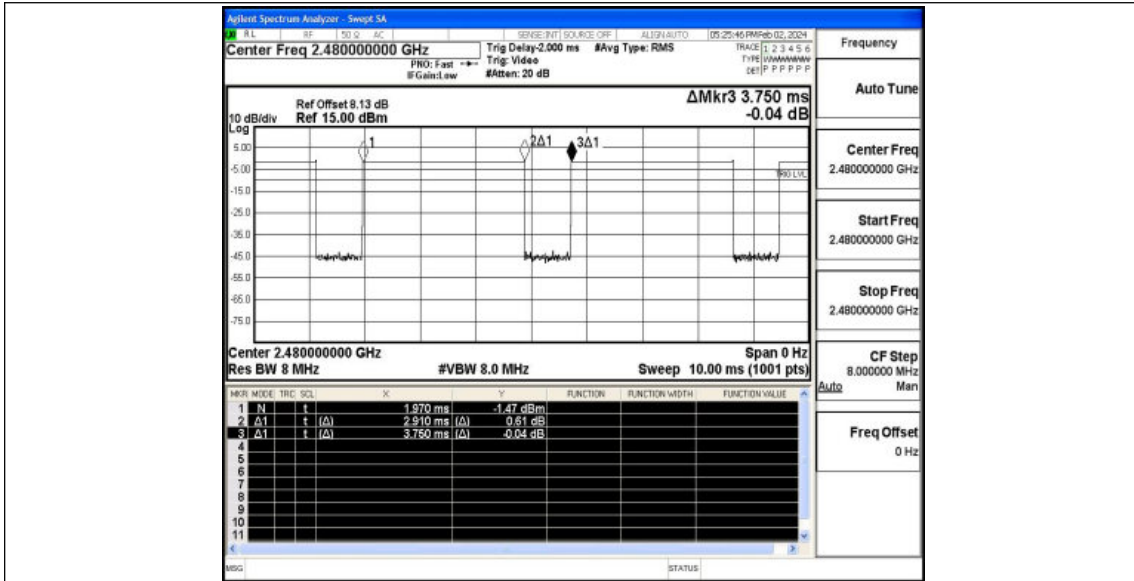


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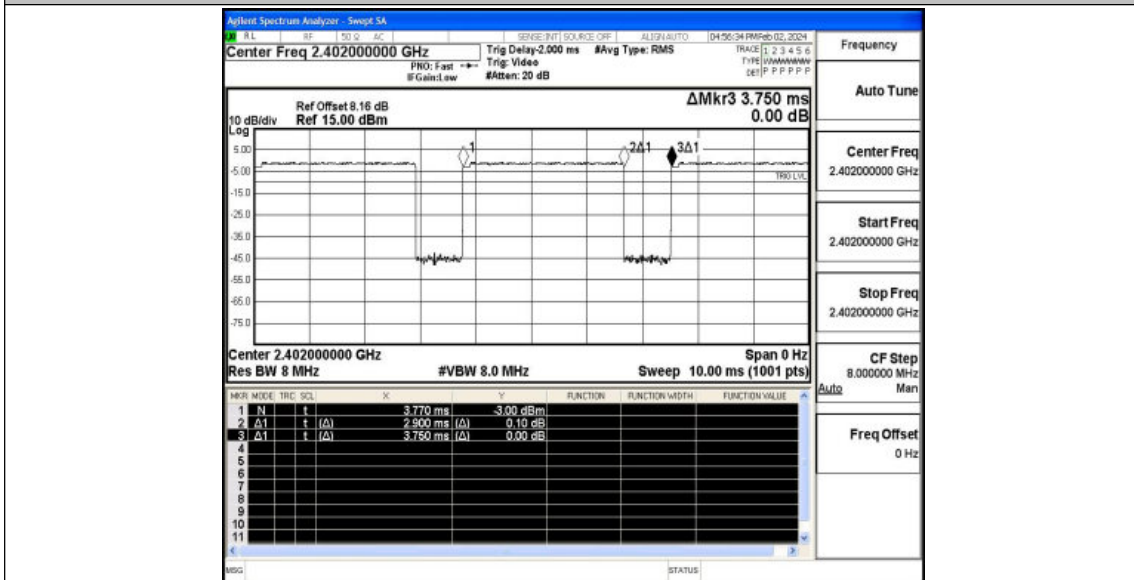
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2DH5_Ant1_2402



2DH5_Ant1_2441

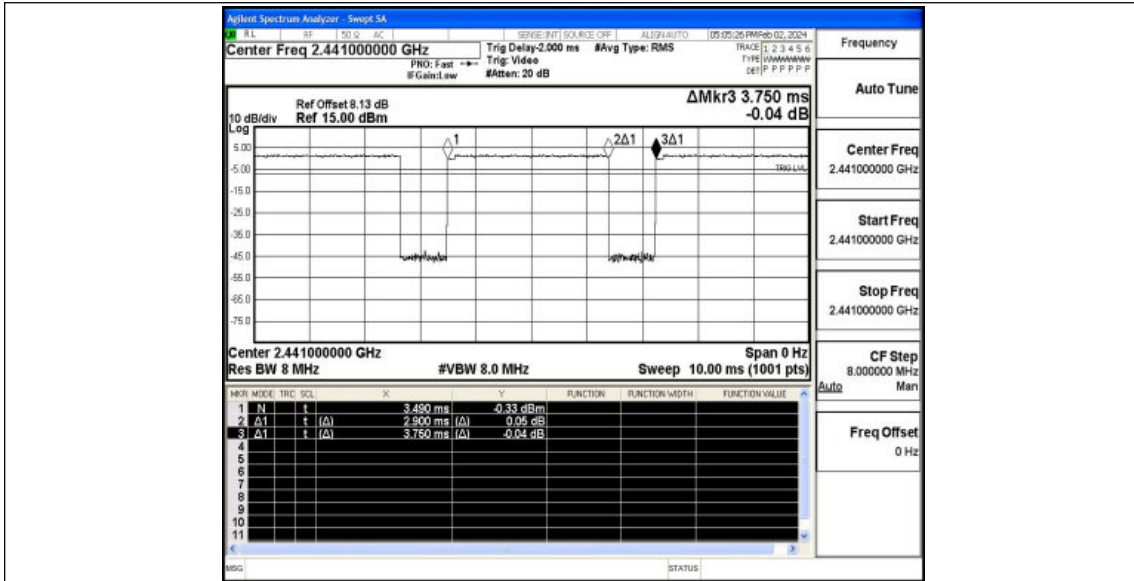


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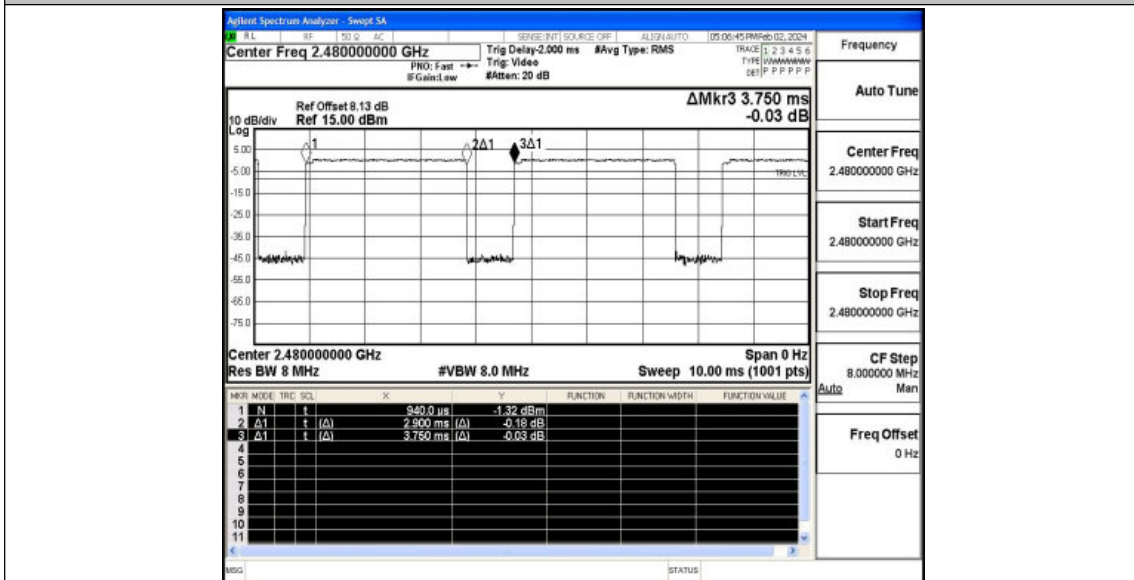
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2DH5_Ant1_2480



3DH5_Ant1_2402

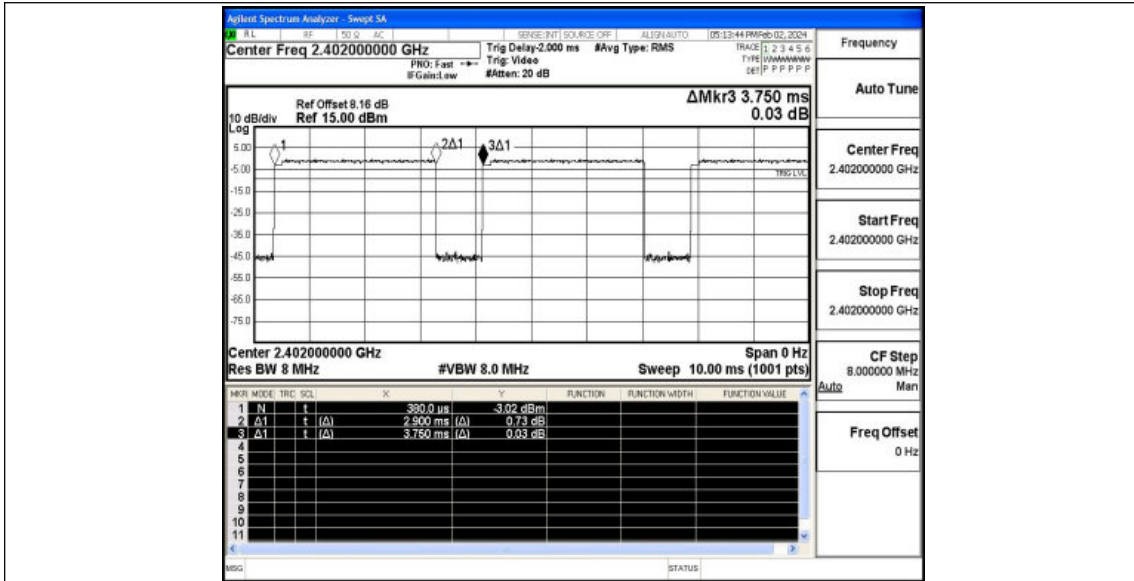


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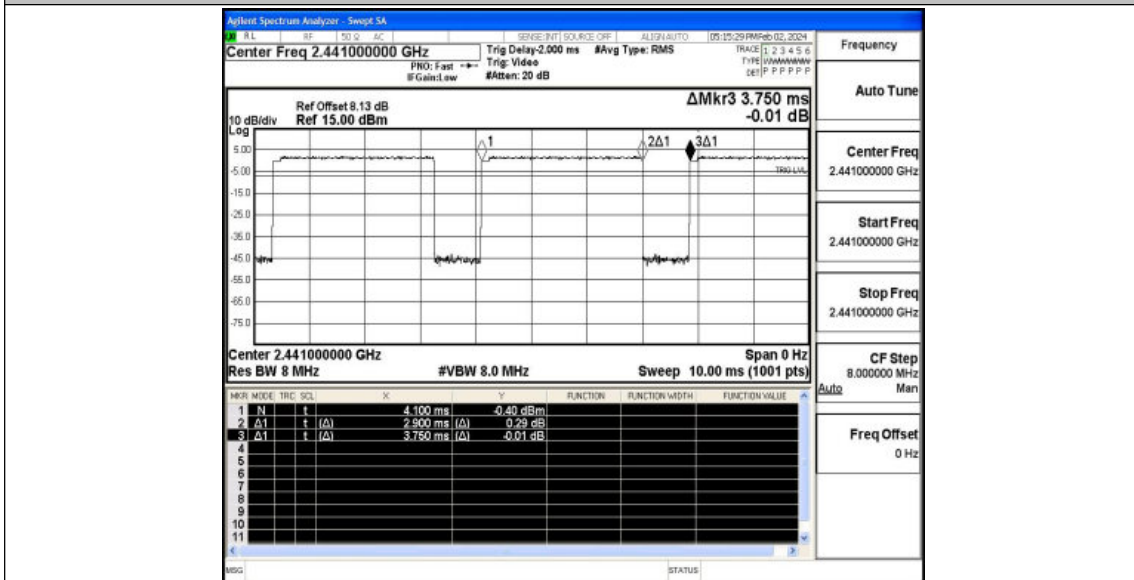
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5_Ant1_2441



3DH5_Ant1_2480

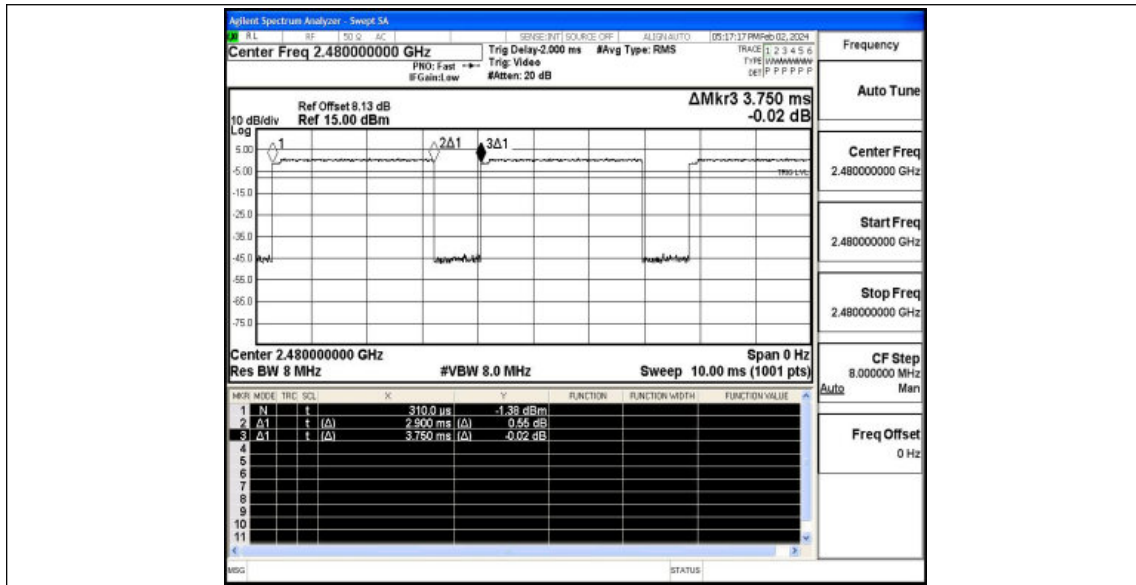


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A.9 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.06	≤-41.20	46.14	≤54	PASS
				AV	2374.865	-47.87	≤-41.20	47.33	≤54	PASS
				AV	2390.000	-49.26	≤-41.20	45.94	≤54	PASS
				Peak	2310.000	-41.87	≤-21.20	53.33	≤74	PASS
				Peak	2379.170	-39.06	≤-21.20	56.14	≤74	PASS
				Peak	2390.000	-41.54	≤-21.20	53.66	≤74	PASS
		High	2480	AV	2483.500	-48.83	≤-41.20	46.37	≤54	PASS
				AV	2498.080	-47.94	≤-41.20	47.26	≤54	PASS
				AV	2500.000	-48.7	≤-41.20	46.50	≤54	PASS
				Peak	2483.500	-42.35	≤-21.20	52.85	≤74	PASS
				Peak	2498.960	-38.88	≤-21.20	56.32	≤74	PASS
				Peak	2500.000	-41.59	≤-21.20	53.61	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-42.38	≤-21.20	52.82	≤74	PASS
				Peak	2337.380	-38.95	≤-21.20	56.25	≤74	PASS
				Peak	2390.000	-40.13	≤-21.20	55.07	≤74	PASS
		High	Hop_2480	Peak	2483.500	-38.71	≤-21.20	56.49	≤74	PASS
				Peak	2500.000	-41.78	≤-21.20	53.42	≤74	PASS
		2DH5	Ant1	Low	2402	AV	2310.000	-48.92	≤-41.20	46.28
AV	2376.650					-47.71	≤-41.20	47.49	≤54	PASS
AV	2390.000					-48.87	≤-41.20	46.33	≤54	PASS
Peak	2310.000					-41.18	≤-21.20	54.02	≤74	PASS
Peak	2339.585					-38.81	≤-21.20	56.39	≤74	PASS
Peak	2390.000					-41.26	≤-21.20	53.94	≤74	PASS
High	2480			AV	2483.500	-48.3	≤-41.20	46.90	≤54	PASS
				AV	2494.240	-47.72	≤-41.20	47.48	≤54	PASS
				AV	2500.000	-48.85	≤-41.20	46.35	≤54	PASS
				Peak	2483.500	-39.72	≤-21.20	55.48	≤74	PASS
				Peak	2491.360	-37.52	≤-21.20	57.68	≤74	PASS
				Peak	2500.000	-42.08	≤-21.20	53.12	≤74	PASS
Low	Hop_2402			Peak	2310.000	-42.45	≤-21.20	52.75	≤74	PASS
				Peak	2386.415	-39.09	≤-21.20	56.11	≤74	PASS
				Peak	2390.000	-41.47	≤-21.20	53.73	≤74	PASS
High	Hop_2480			Peak	2483.500	-42.56	≤-21.20	52.64	≤74	PASS
				Peak	2493.600	-38.55	≤-21.20	56.65	≤74	PASS
				Peak	2500.000	-42.08	≤-21.20	53.12	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-49.2	≤-41.20	46.00	≤54	PASS



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				AV	2381.480	-47.85	≤ -41.20	47.35	≤ 54	PASS
				AV	2390.000	-48.76	≤ -41.20	46.44	≤ 54	PASS
				Peak	2310.000	-42.11	≤ -21.20	53.09	≤ 74	PASS
				Peak	2362.475	-39.32	≤ -21.20	55.88	≤ 74	PASS
				Peak	2390.000	-42.69	≤ -21.20	52.51	≤ 74	PASS
		High	2480	AV	2483.500	-48.21	≤ -41.20	46.99	≤ 54	PASS
				AV	2498.560	-47.69	≤ -41.20	47.51	≤ 54	PASS
				AV	2500.000	-48.27	≤ -41.20	46.93	≤ 54	PASS
				Peak	2483.500	-40.68	≤ -21.20	54.52	≤ 74	PASS
				Peak	2494.160	-39.26	≤ -21.20	55.94	≤ 74	PASS
				Peak	2500.000	-40.01	≤ -21.20	55.19	≤ 74	PASS
		Low	Hop_240 2	Peak	2310.000	-42.09	≤ -21.20	53.11	≤ 74	PASS
				Peak	2386.205	-38.56	≤ -21.20	56.64	≤ 74	PASS
				Peak	2390.000	-43.6	≤ -21.20	51.60	≤ 74	PASS
		High	Hop_248 0	Peak	2483.500	-41.13	≤ -21.20	54.07	≤ 74	PASS
				Peak	2484.480	-39.07	≤ -21.20	56.13	≤ 74	PASS
				Peak	2500.000	-41.97	≤ -21.20	53.23	≤ 74	PASS

Note:

1. The Antenna Gain is compensated in the graph. The Correction Factor 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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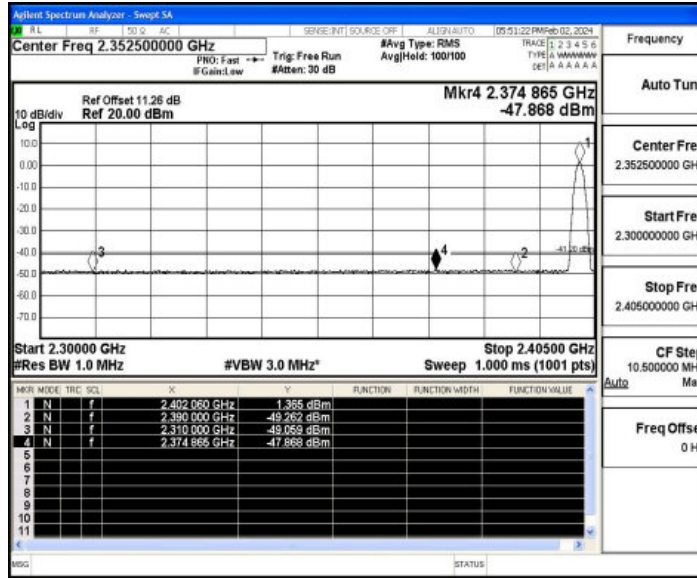
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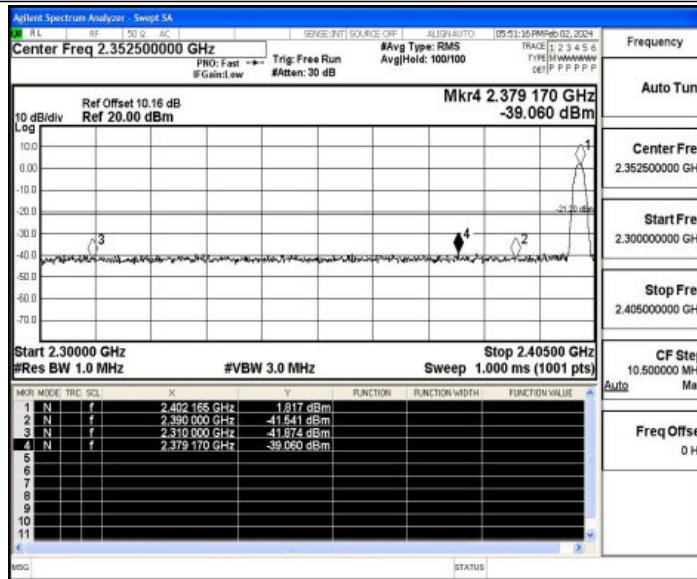


Test Graphs

DH5_Ant1_Low_2402_AV



DH5_Ant1_Low_2402_Peak



DH5_Ant1_High_2480_AV

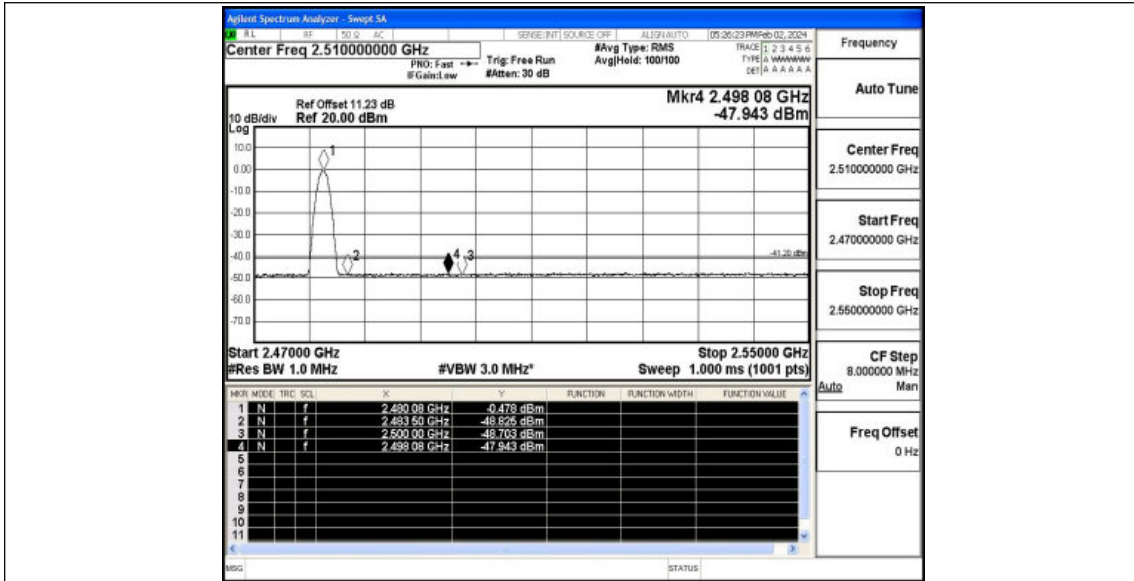


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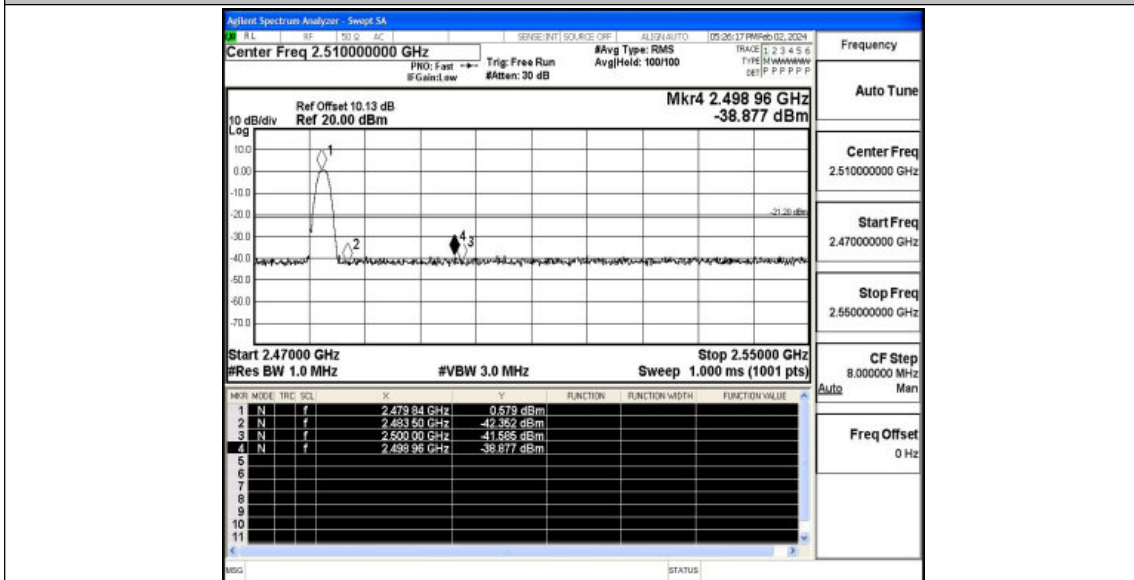
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DH5_Ant1_High_2480_Peak



DH5_Ant1_Low_Hop_2402_Peak

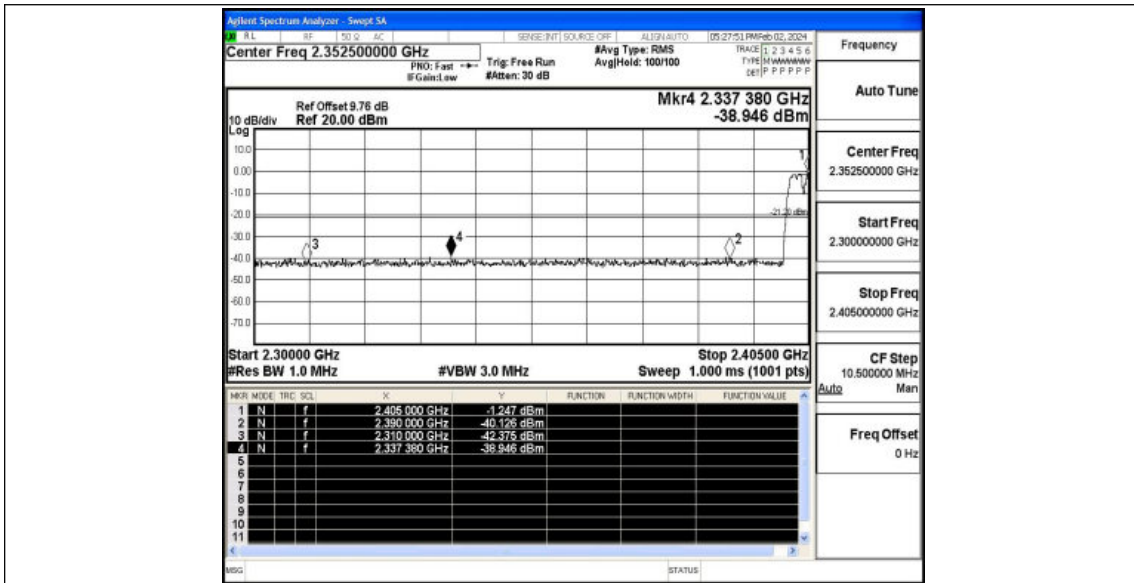


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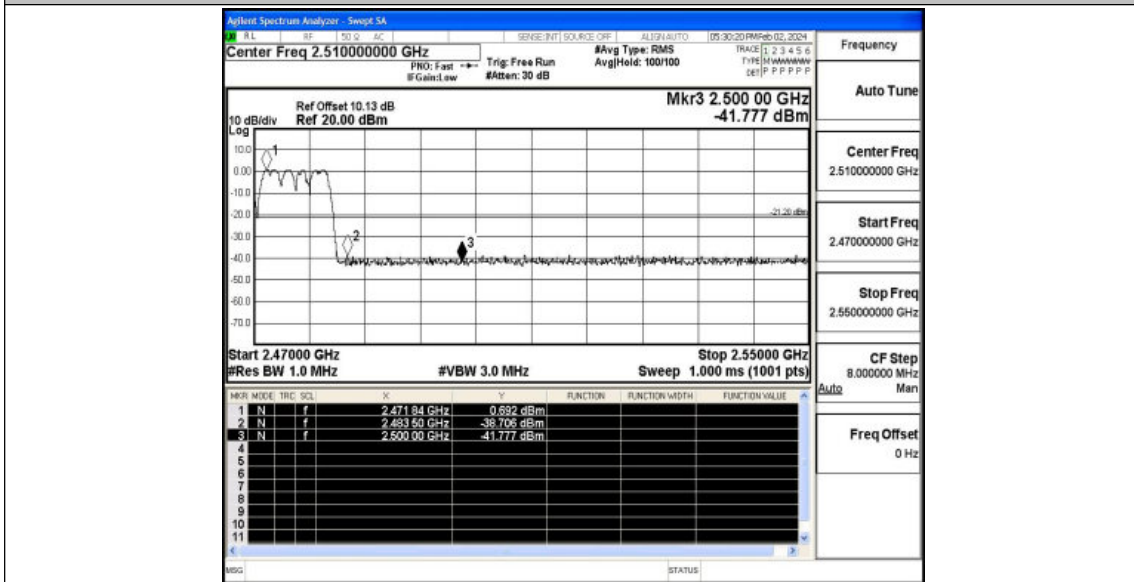
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DH5_Ant1_High_Hop_2480_Peak



2DH5_Ant1_Low_2402_AV

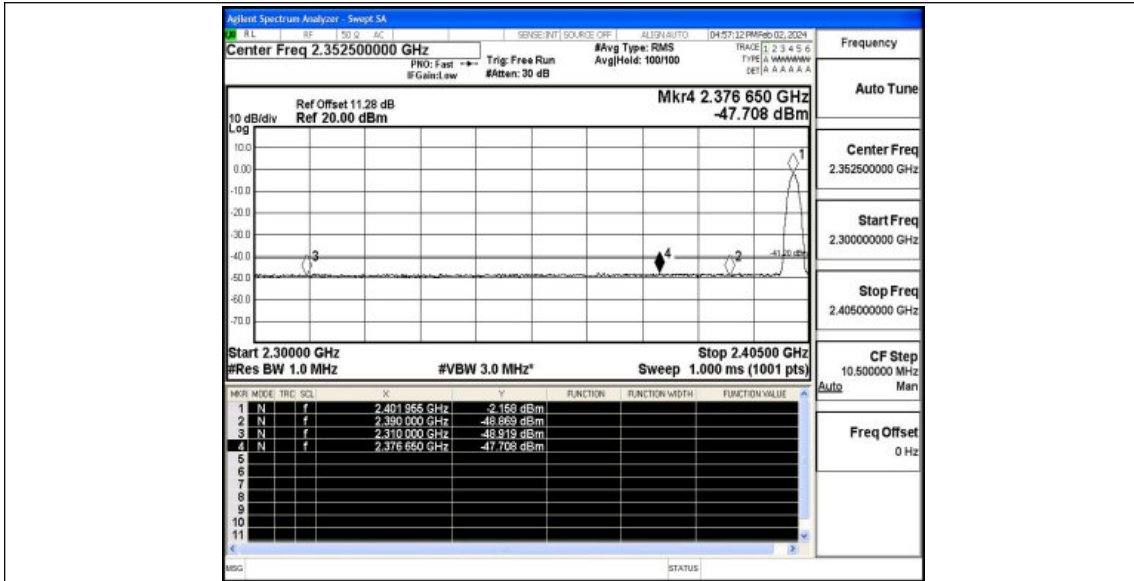


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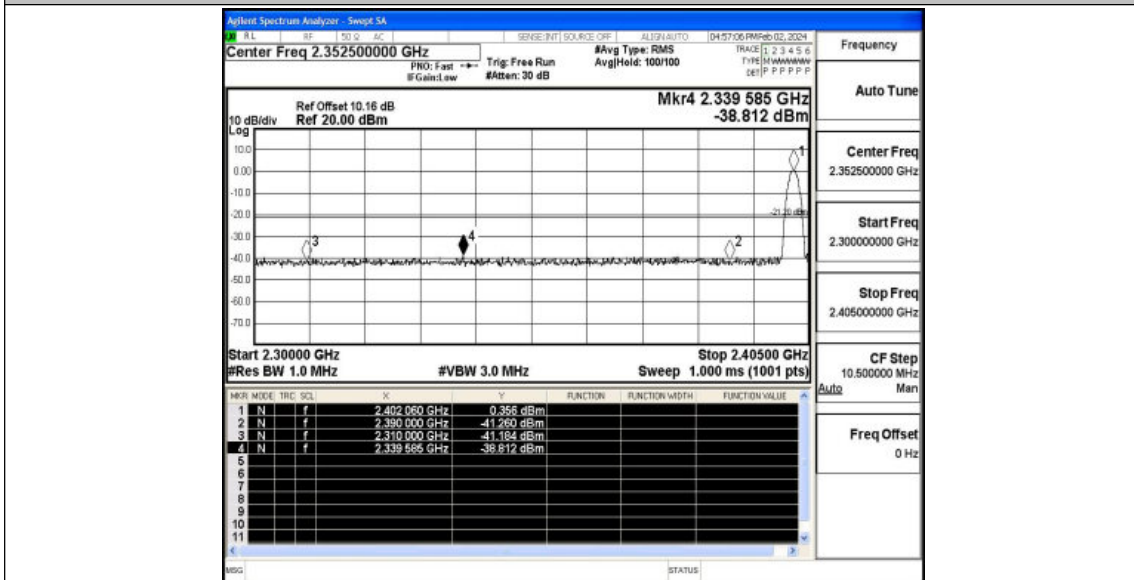
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2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

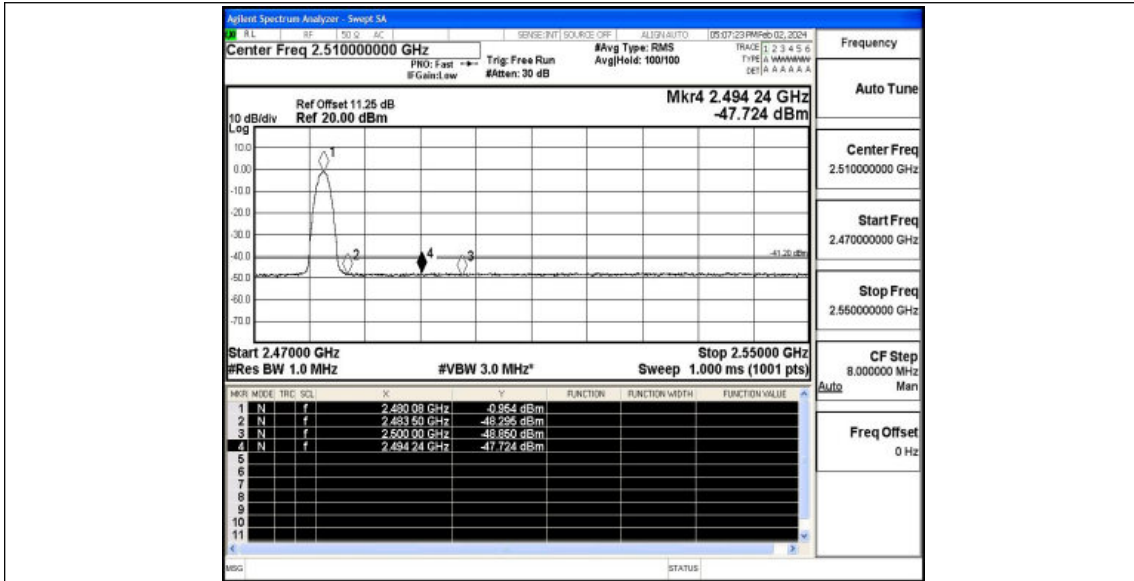


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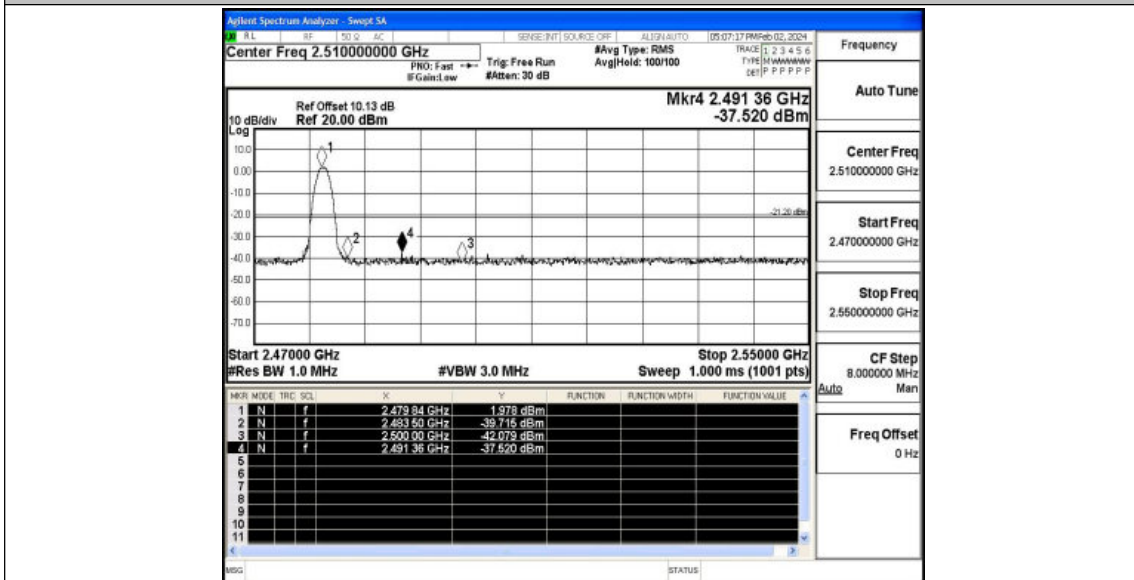
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2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak

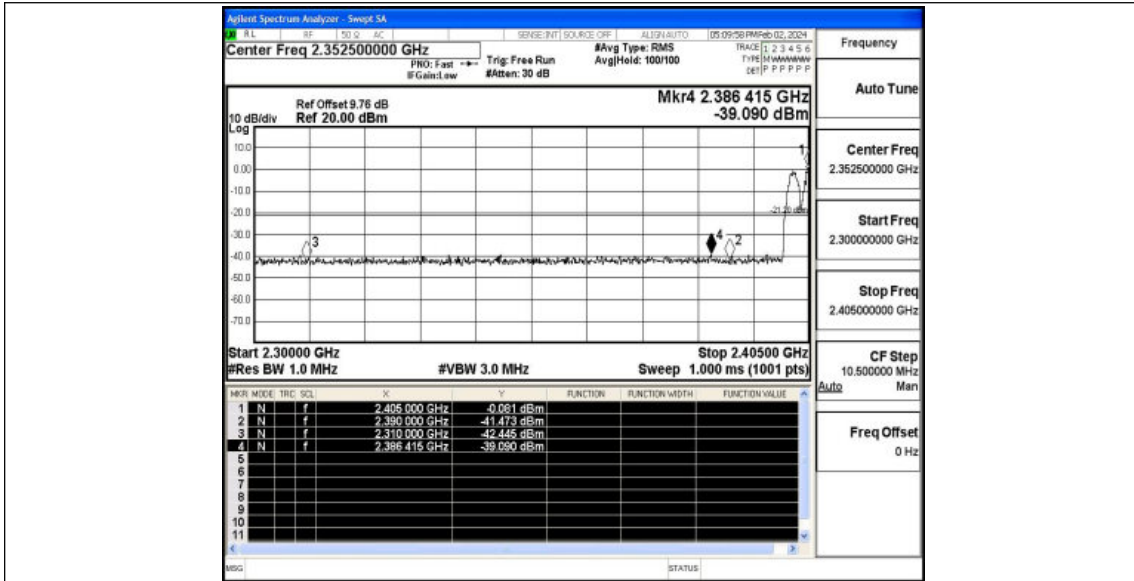


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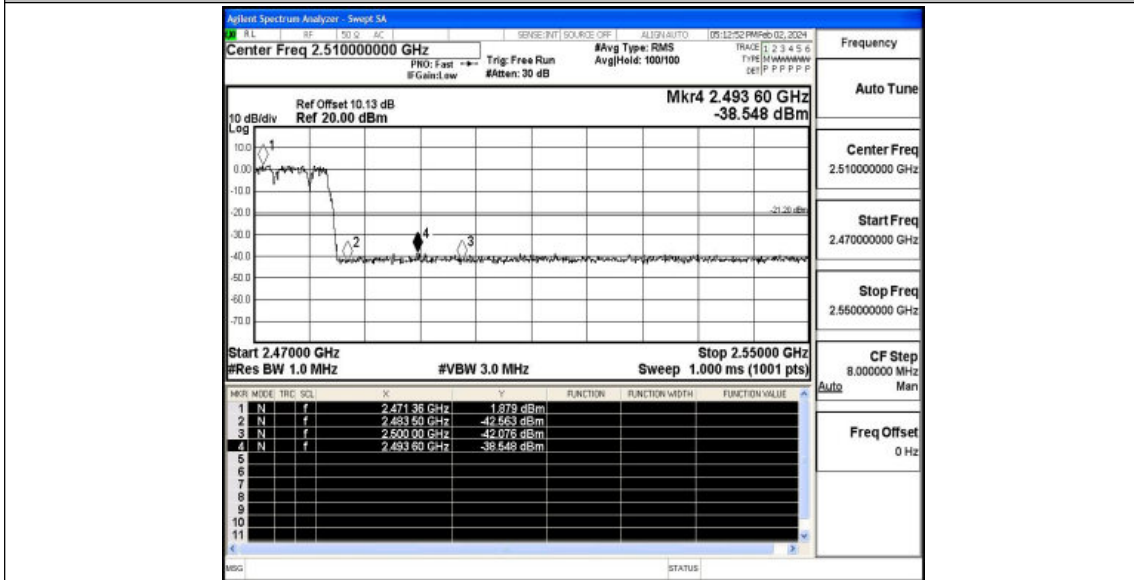
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2DH5_Ant1_High_Hop_2480_Peak



3DH5_Ant1_Low_2402_AV

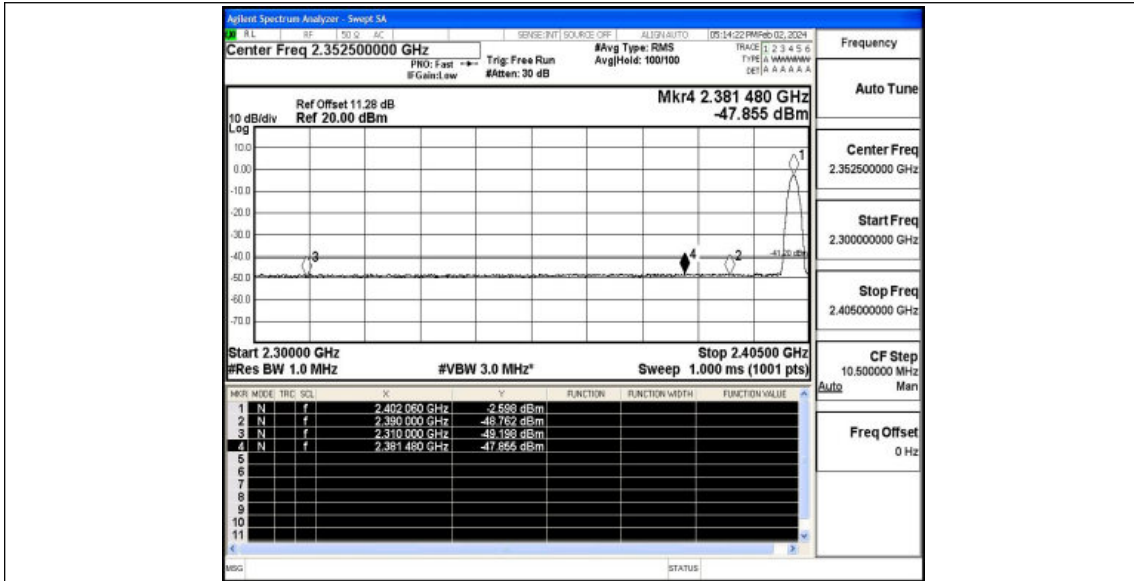


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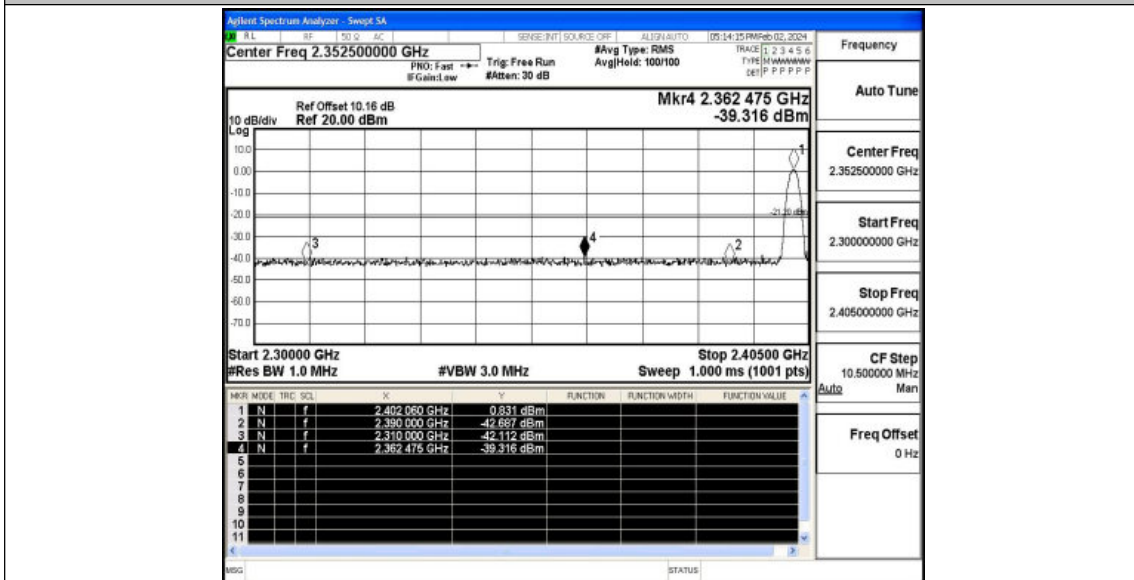
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3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV

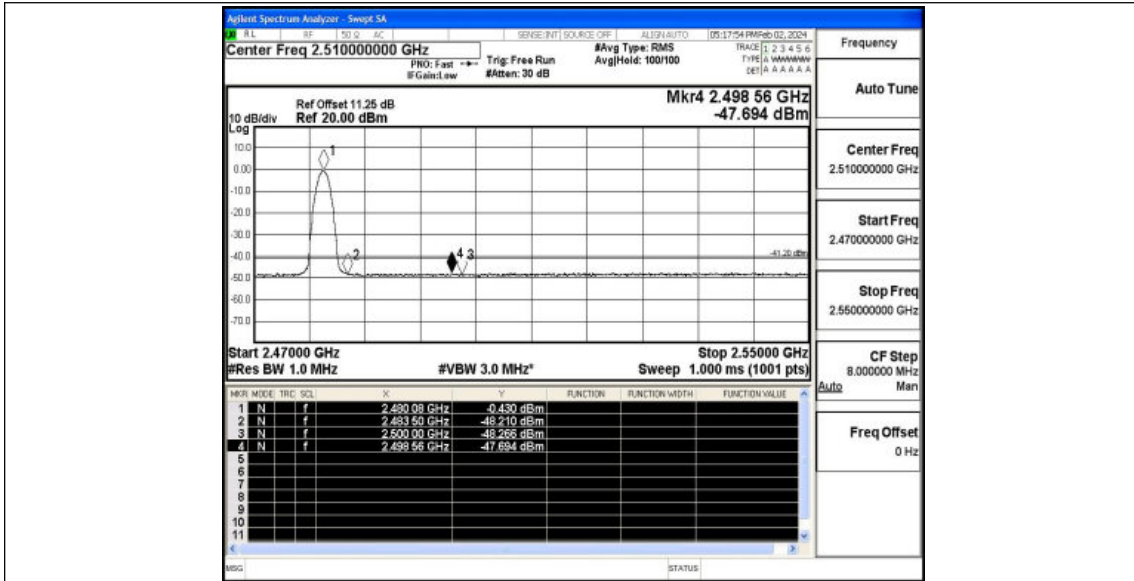


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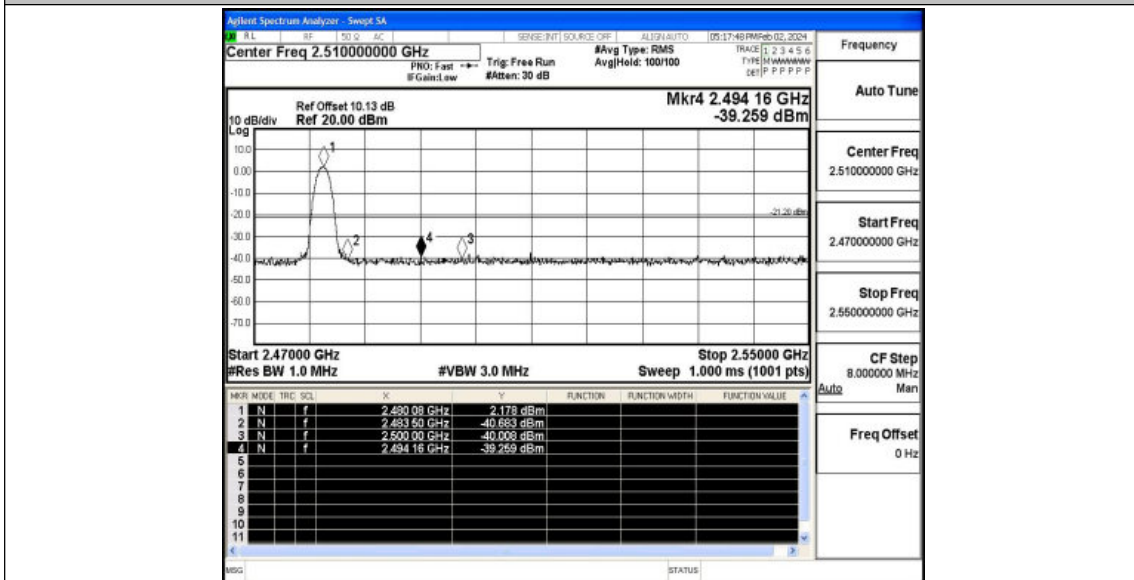
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3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak

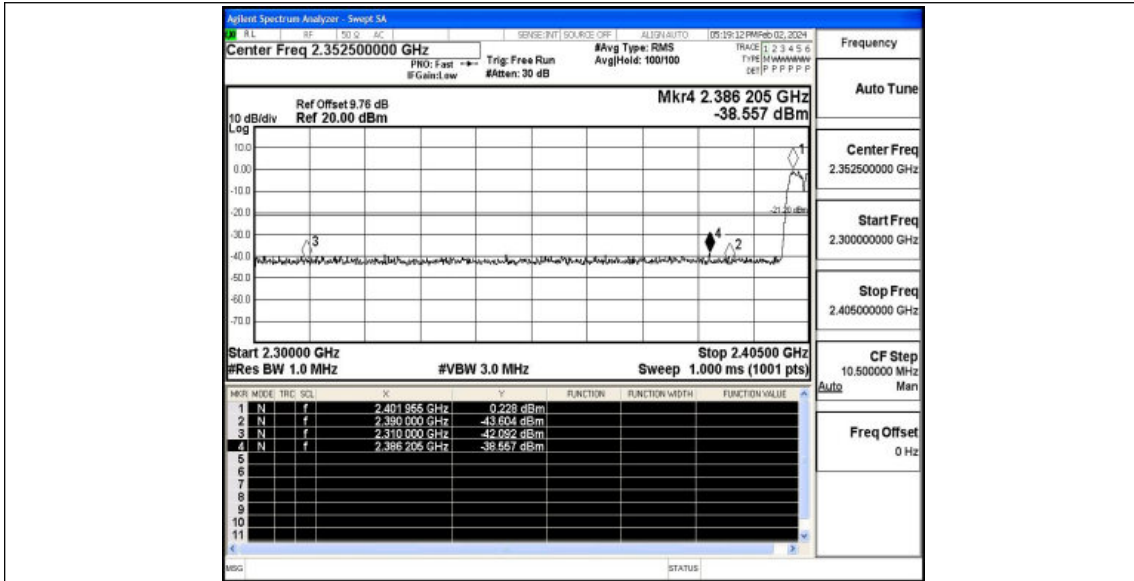


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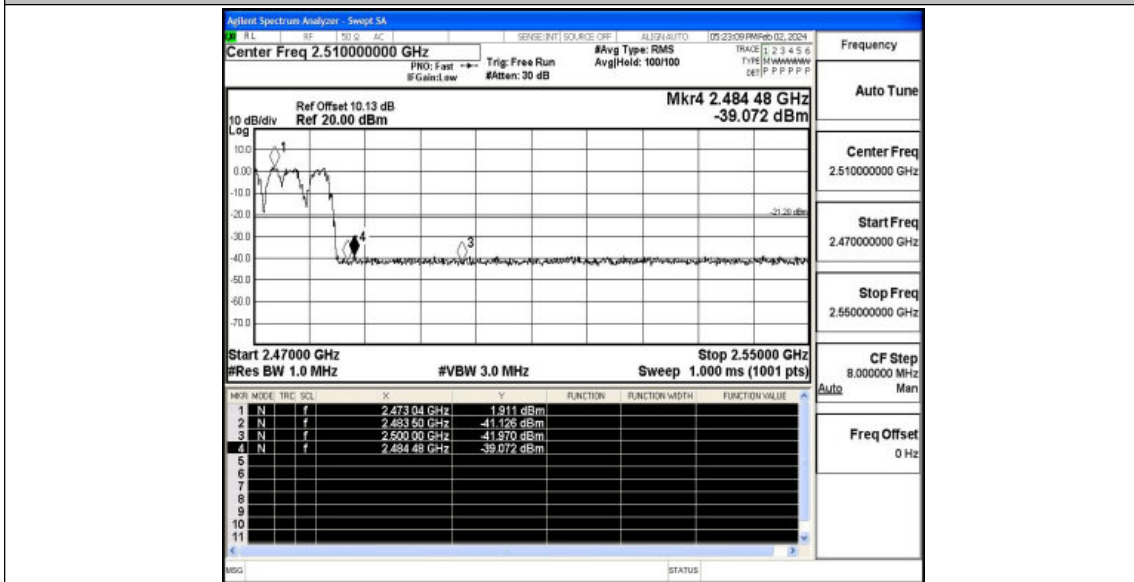
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3DH5_Ant1_High_Hop_2480_Peak



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