



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: WIRELESS SPEAKER

Test Model: ZEALOT-S49

Environmental Conditions

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



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A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant	2402	1.032	2401.466	2402.498	---	---
		2441	1.023	2440.472	2441.495	---	---
		2480	1.041	2479.454	2480.495	---	---
2DH5	Ant	2402	1.284	2401.355	2402.639	---	---
		2441	1.287	2440.352	2441.639	---	---
		2480	1.290	2479.352	2480.642	---	---
3DH5	Ant	2402	1.323	2401.328	2402.651	---	---
		2441	1.287	2440.340	2441.627	---	---
		2480	1.290	2479.340	2480.630	---	---



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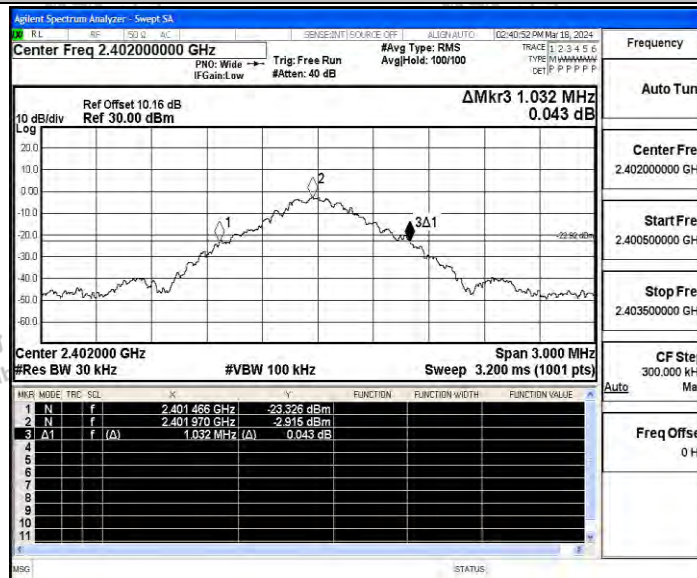
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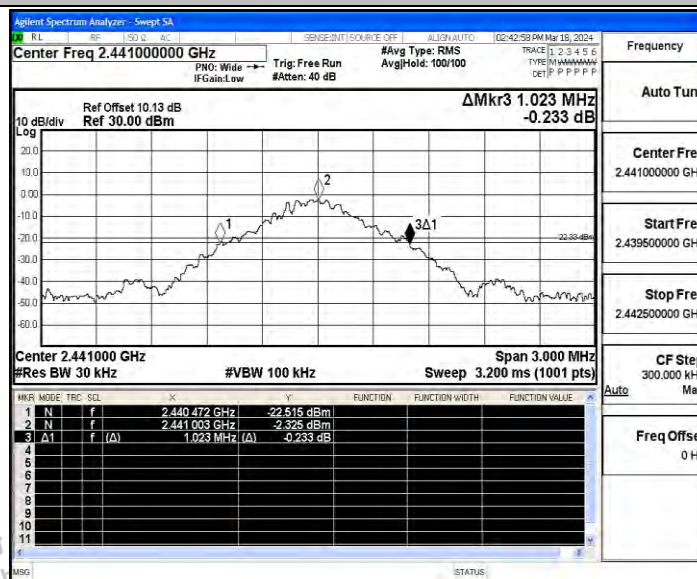


Test Graphs

DH5_Ant_2402



DH5_Ant_2441



DH5_Ant_2480

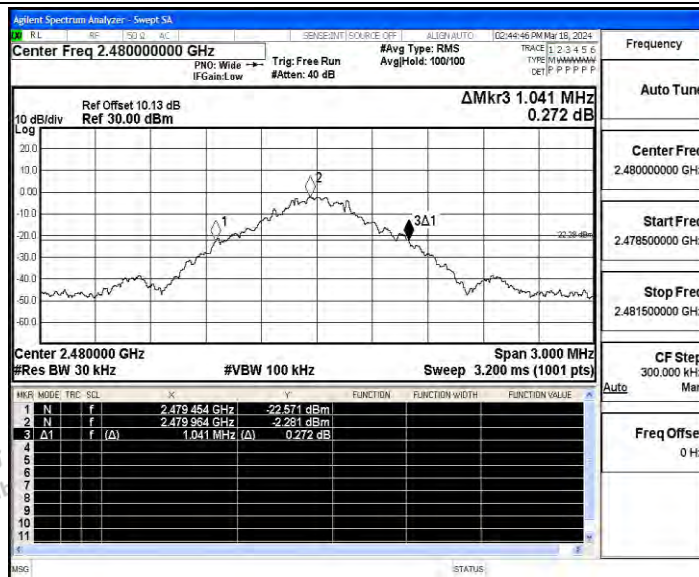


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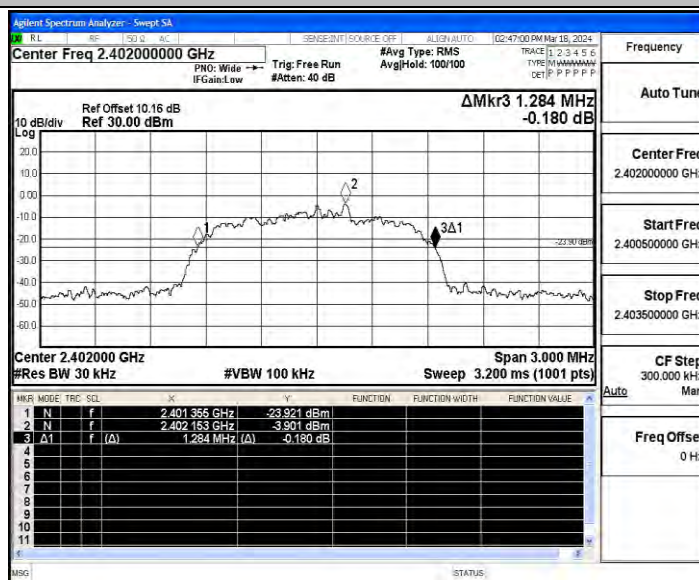
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2DH5_Ant_2402



2DH5_Ant_2441

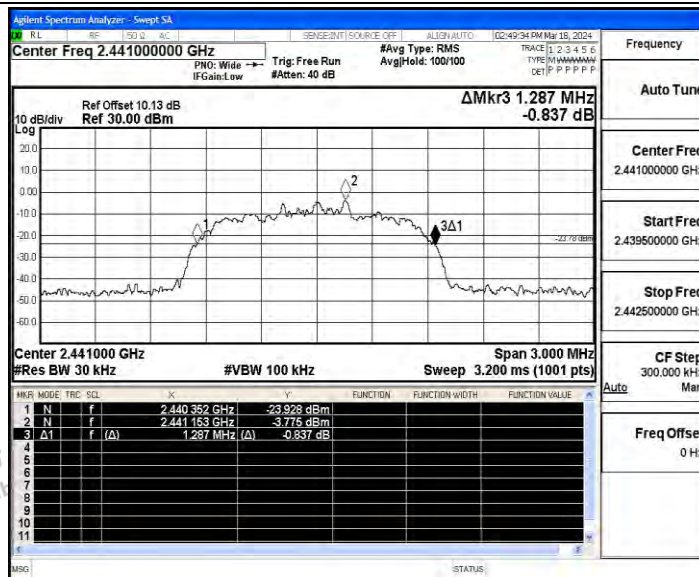


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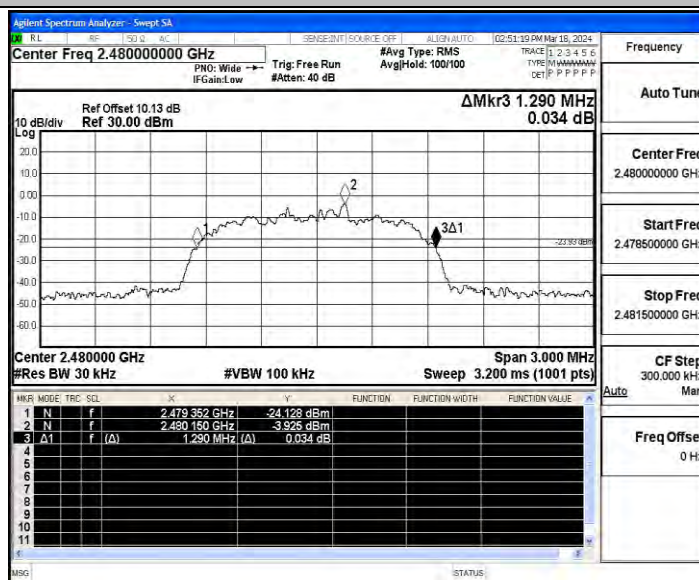
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2DH5_Ant_2480



3DH5_Ant_2402

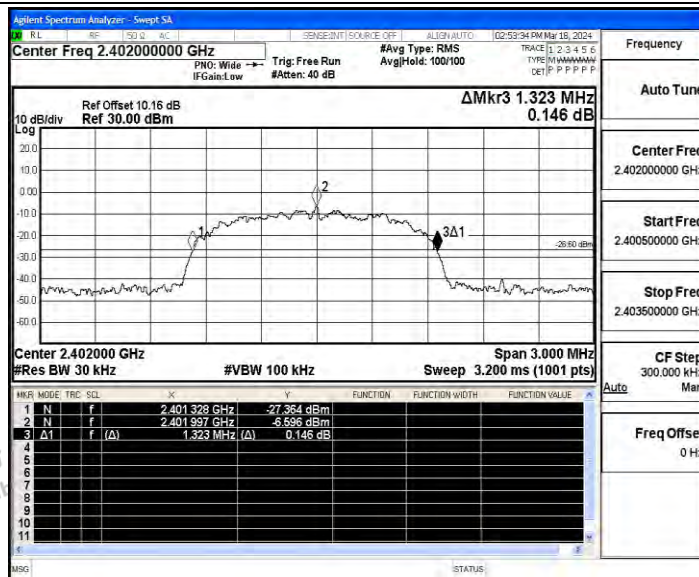


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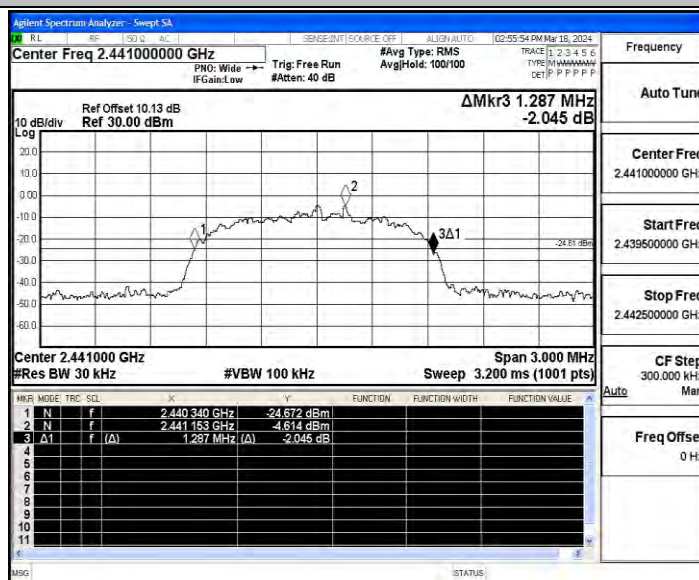
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3DH5_Ant_2441



3DH5_Ant_2480

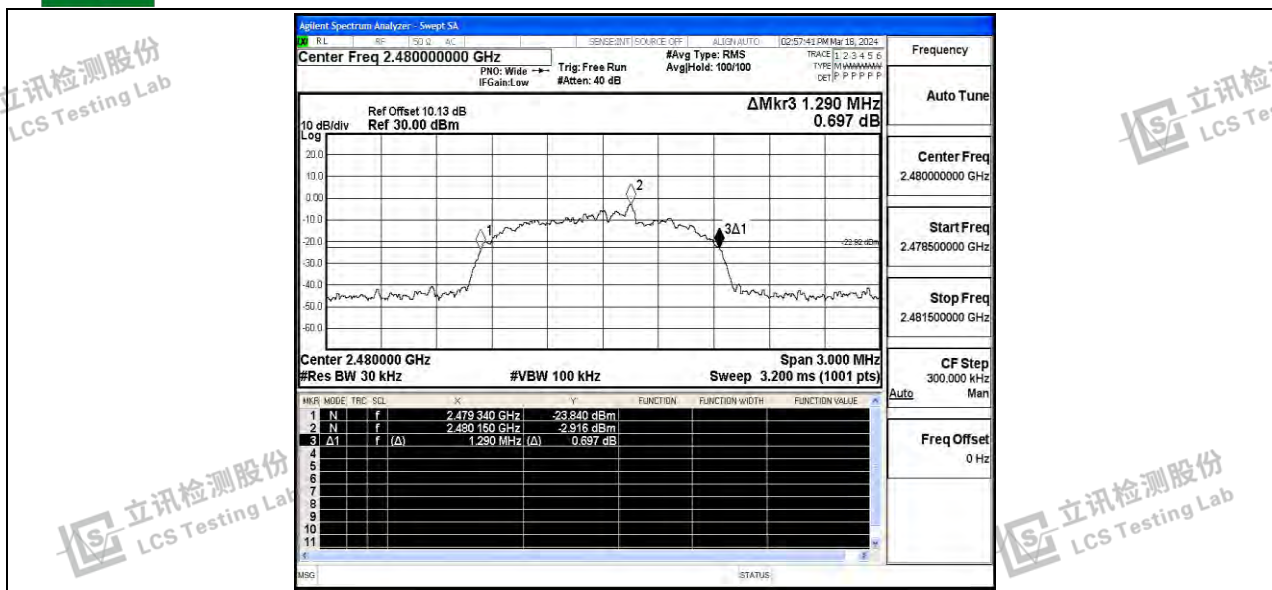


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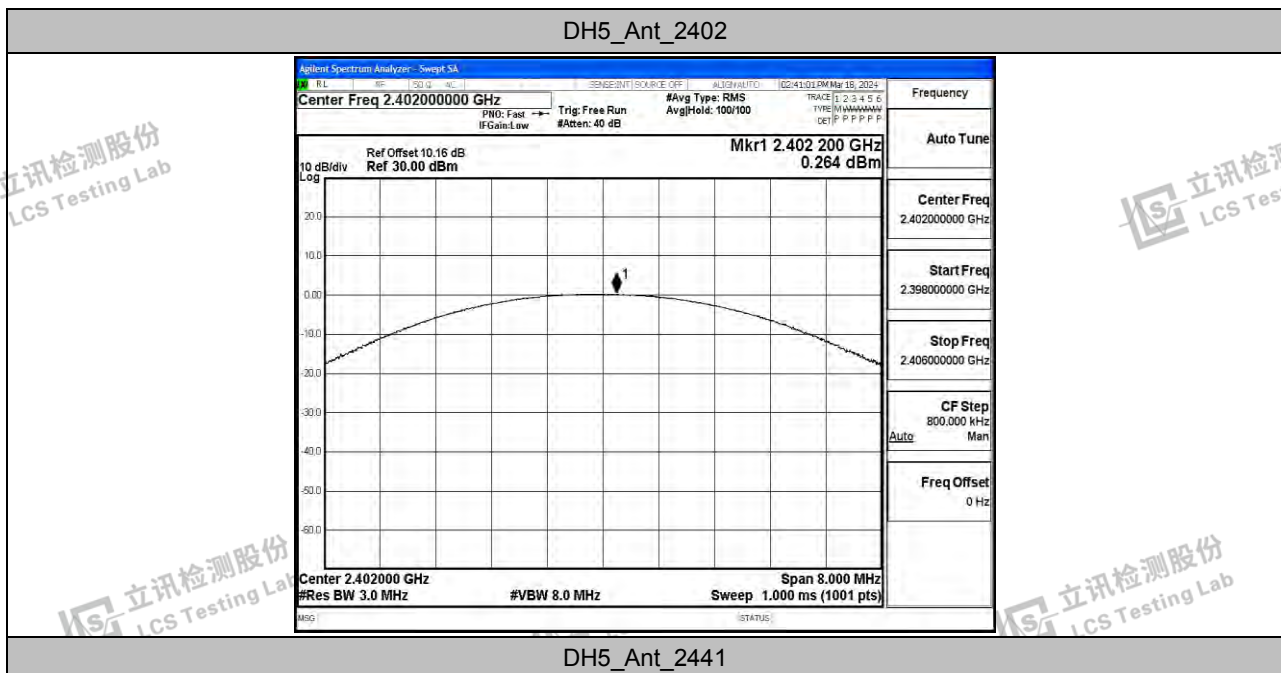


A.2 Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant	2402	0.26	≤20.97	PASS
		2441	0.73	≤20.97	PASS
		2480	0.81	≤20.97	PASS
2DH5	Ant	2402	0.18	≤20.97	PASS
		2441	0.24	≤20.97	PASS
		2480	0.47	≤20.97	PASS
3DH5	Ant	2402	0.33	≤20.97	PASS
		2441	0.39	≤20.97	PASS
		2480	0.43	≤20.97	PASS

Test Graphs

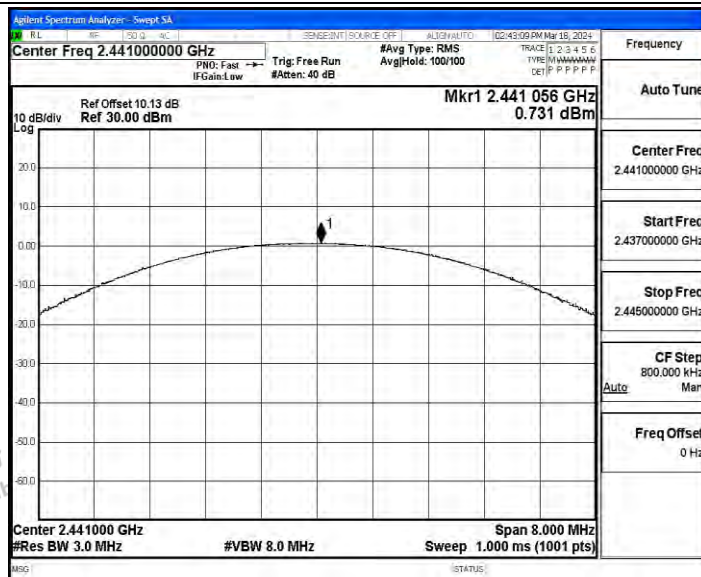


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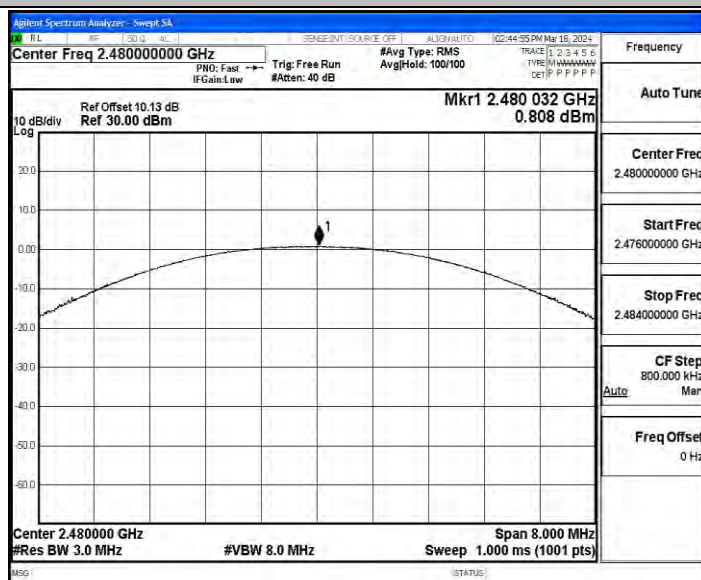
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DH5_Ant_2480



2DH5_Ant_2402

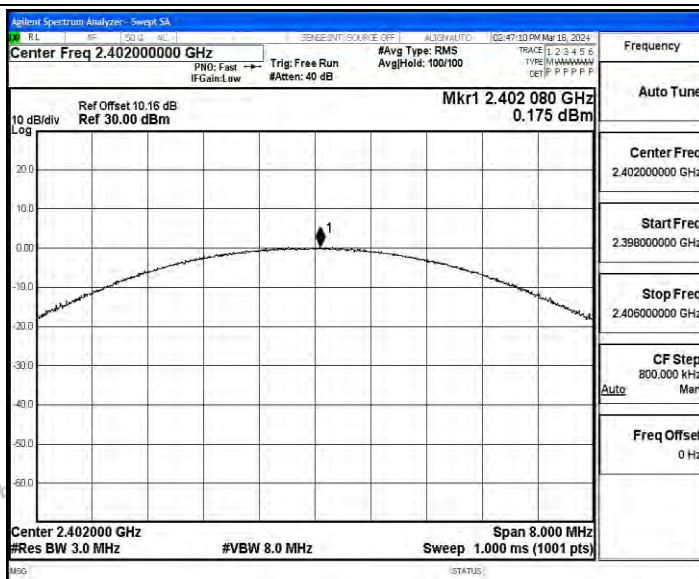


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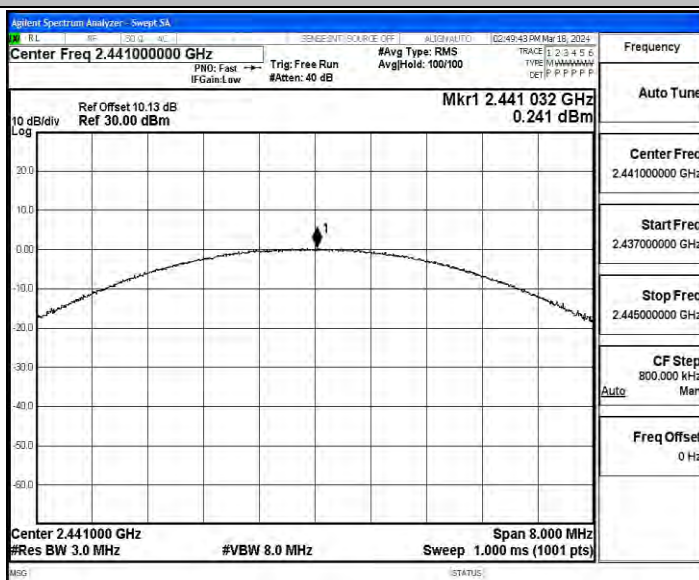
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2DH5_Ant_2441



2DH5_Ant_2480

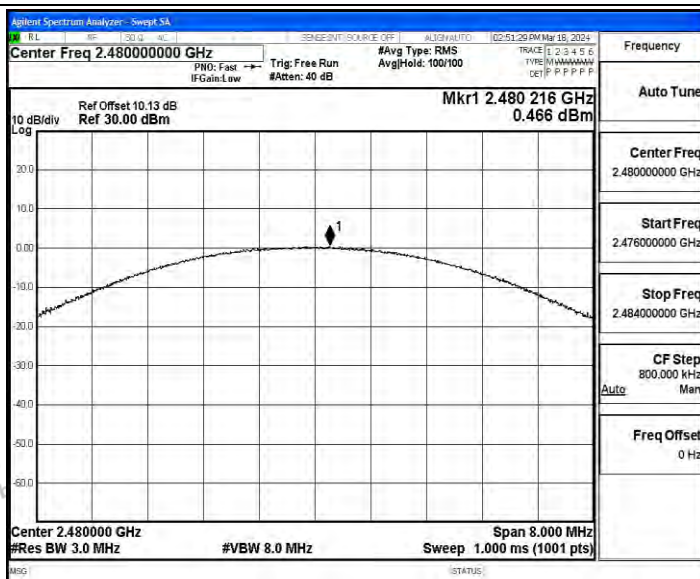


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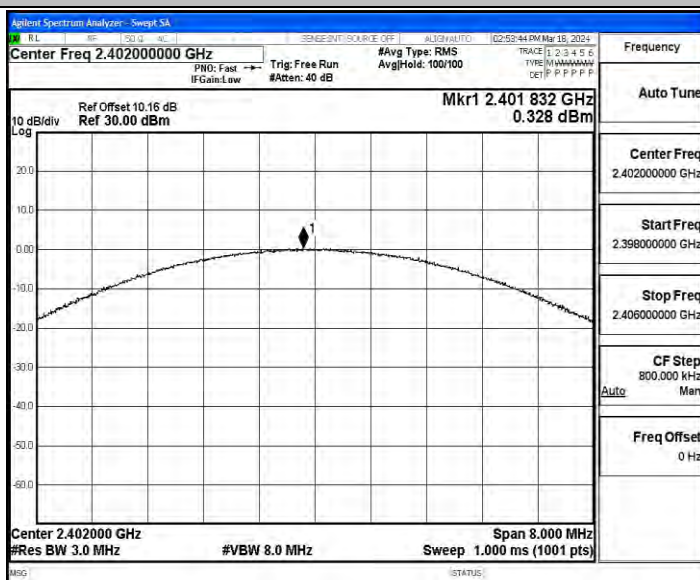
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3DH5_Ant_2402



3DH5_Ant_2441

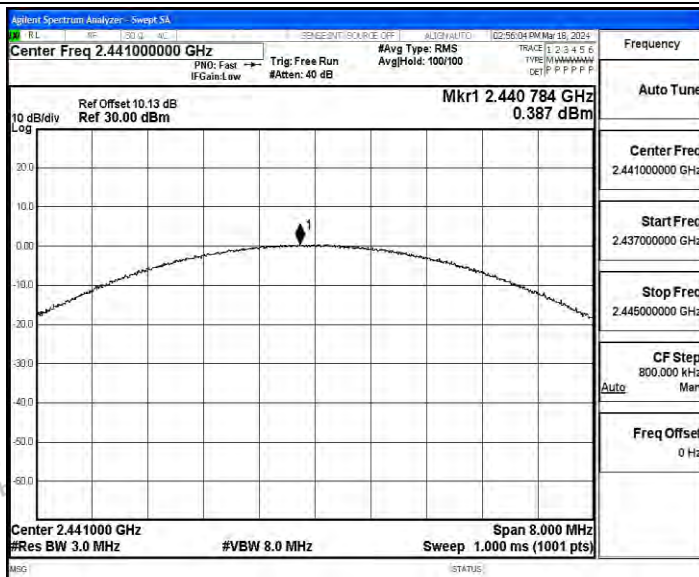


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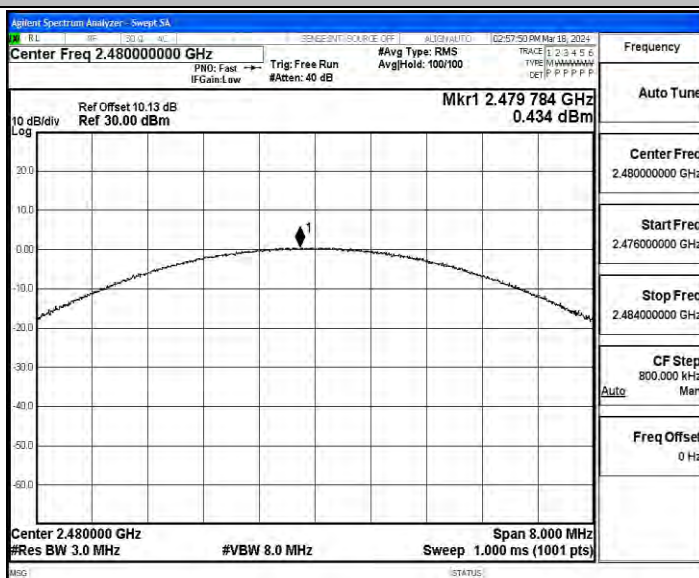
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3DH5_Ant_2480



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A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant	Hop	0.862	≥ 0.694	PASS
2DH5	Ant	Hop	0.866	≥ 0.860	PASS
3DH5	Ant	Hop	1.062	≥ 0.882	PASS



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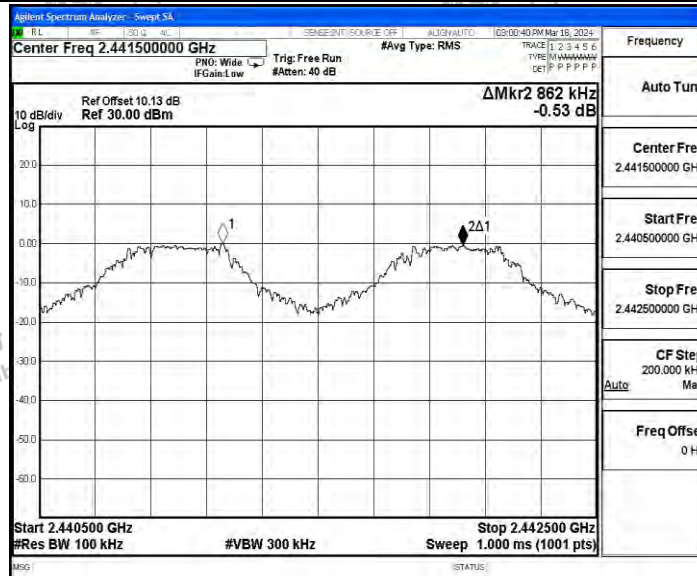
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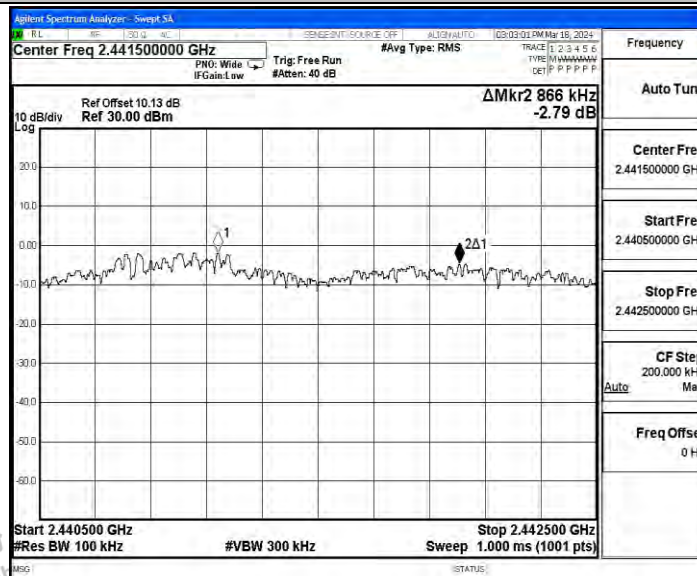


Test Graphs

DH5_Ant_Hop



2DH5_Ant_Hop



3DH5_Ant_Hop

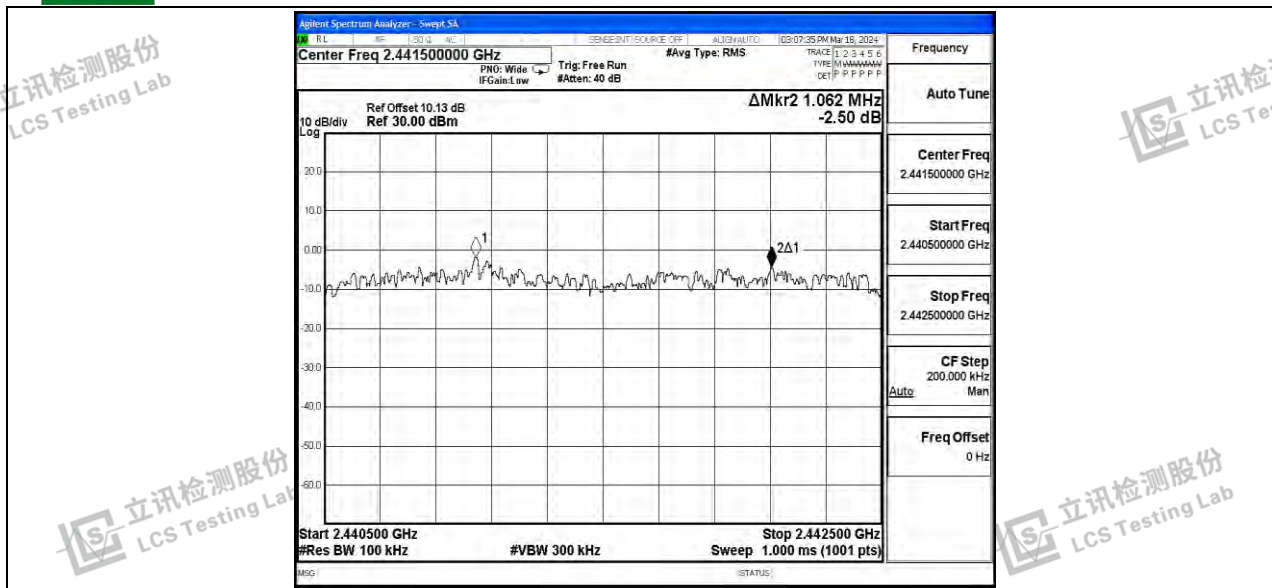


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A.4 Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant	Hop	2.884	106.67	0.308	≤0.4	PASS
3DH5	Ant	Hop	2.887	106.67	0.308	≤0.4	PASS



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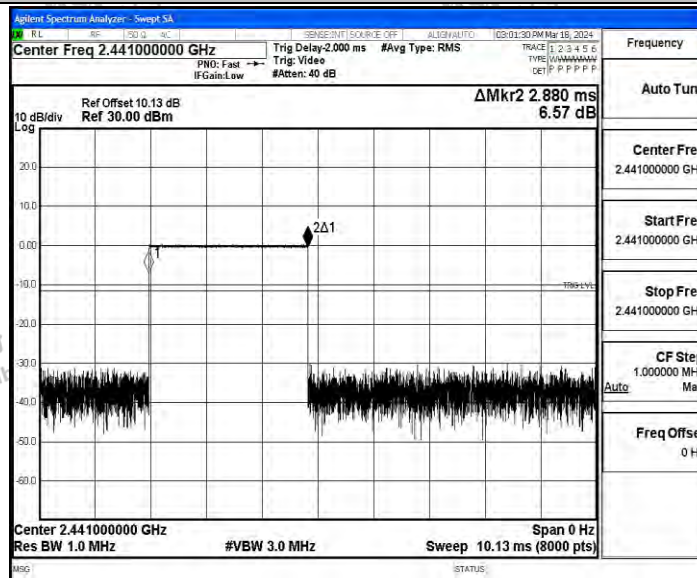
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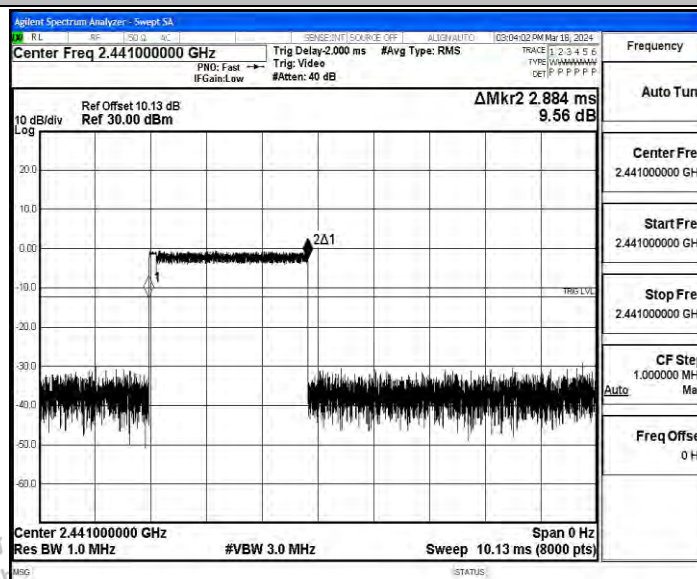


Test Graphs

DH5_Ant_Hop



2DH5_Ant_Hop



3DH5_Ant_Hop

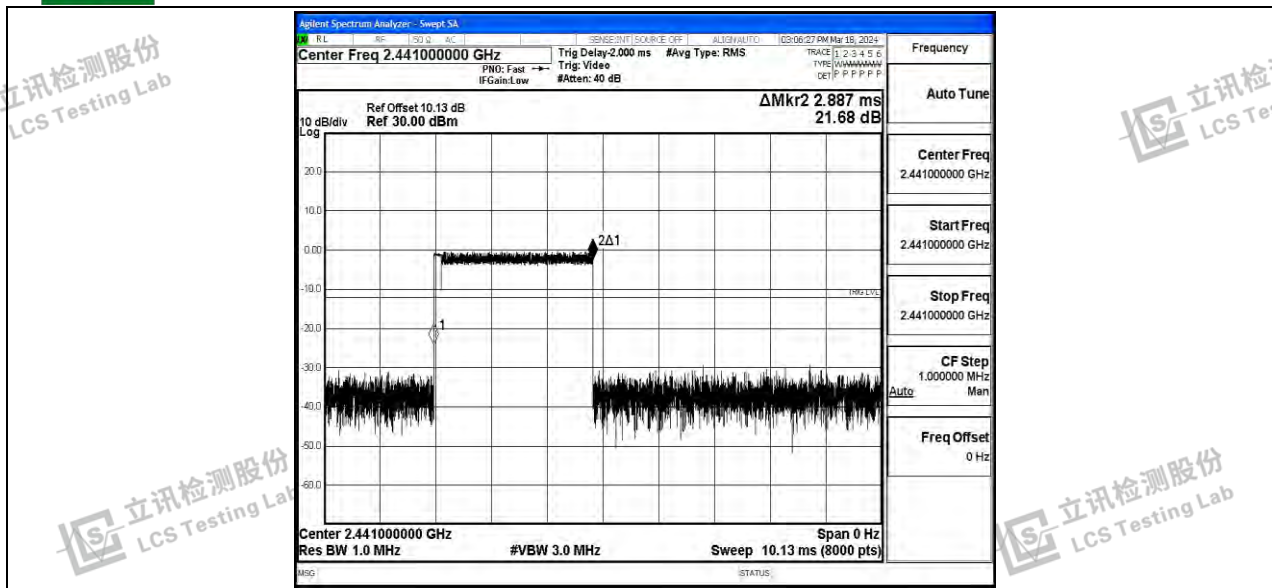


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A.5 Number of hopping channels

Test Result

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



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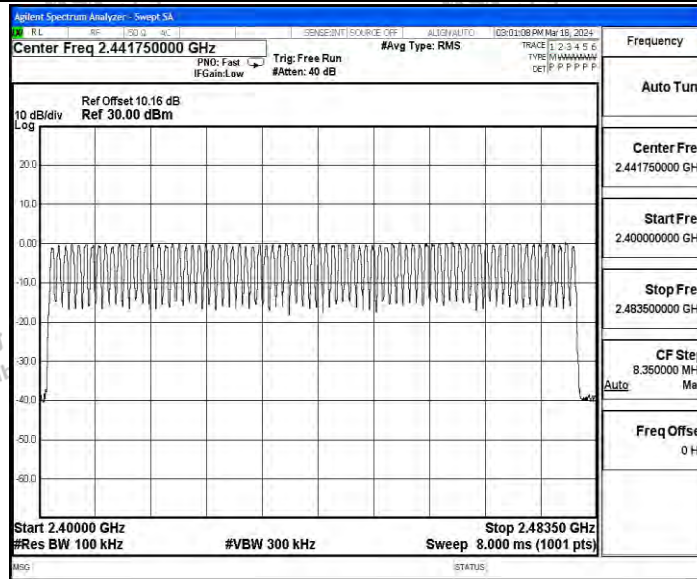
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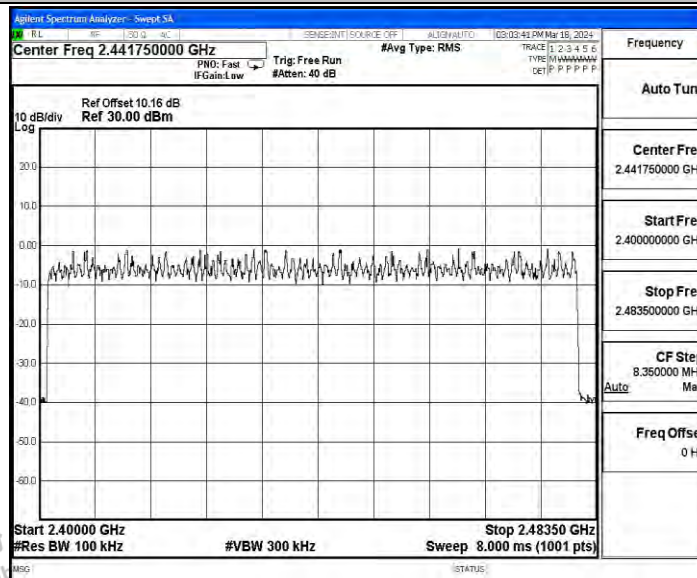


Test Graphs

DH5_Ant_Hop



2DH5_Ant_Hop



3DH5_Ant_Hop

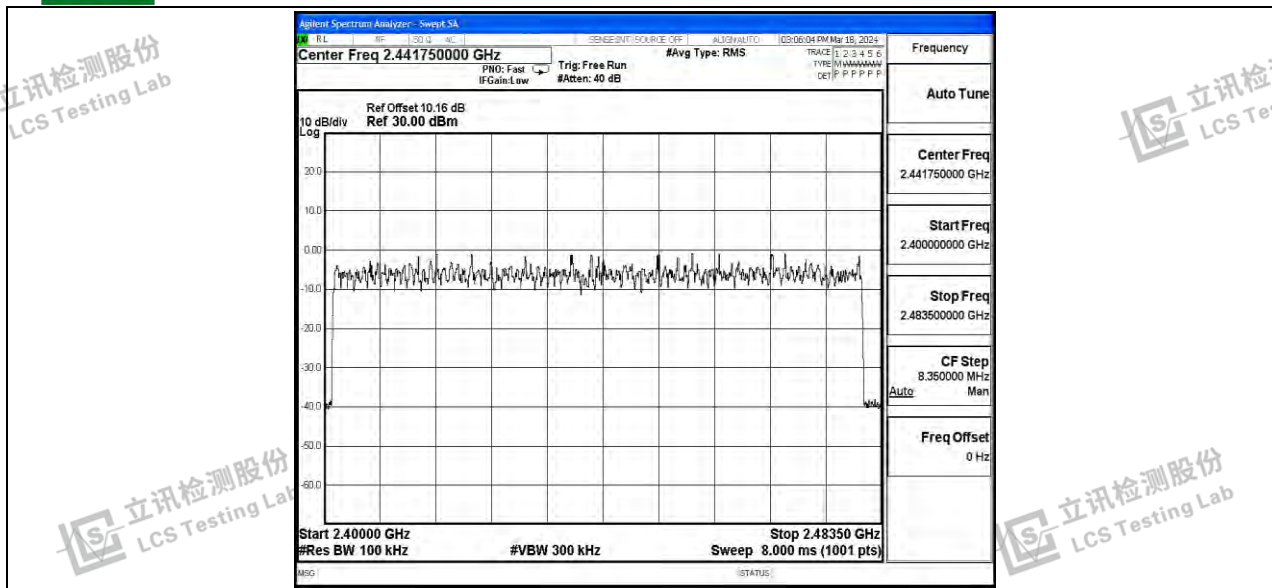


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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	Low	2402	-0.50	-49.06	≤ -20.5	PASS
		High	2480	-0.07	-49.12	≤ -20.07	PASS
		Low	Hop_2402	-1.12	-47.68	≤ -21.12	PASS
		High	Hop_2480	-0.22	-32.31	≤ -20.22	PASS
2DH5	Ant	Low	2402	-1.41	-48.85	≤ -21.41	PASS
		High	2480	-0.96	-48.38	≤ -20.96	PASS
		Low	Hop_2402	-3.67	-47.71	≤ -23.67	PASS
		High	Hop_2480	-1.03	-47.65	≤ -21.03	PASS
3DH5	Ant	Low	2402	-1.84	-48.72	≤ -21.84	PASS
		High	2480	-0.84	-48.6	≤ -20.84	PASS
		Low	Hop_2402	-5.45	-48.27	≤ -25.45	PASS
		High	Hop_2480	-3.35	-47.19	≤ -23.35	PASS



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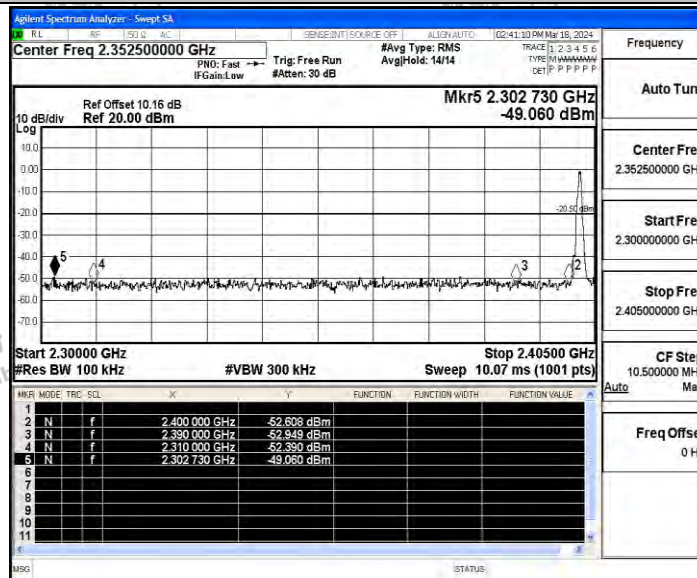
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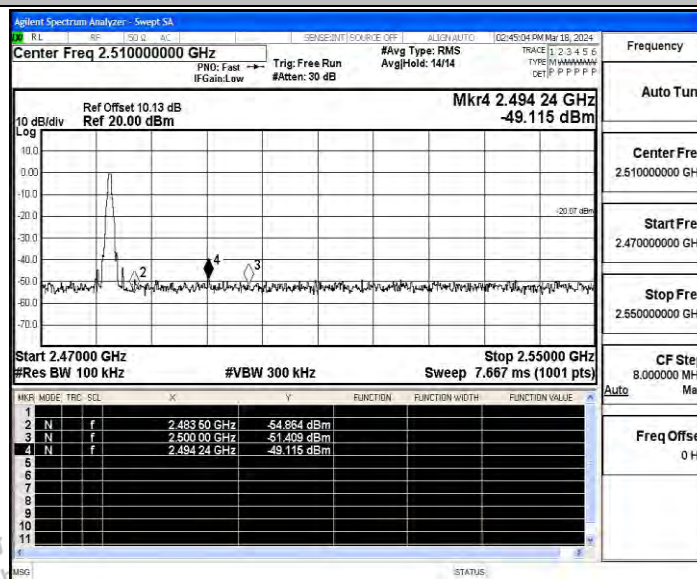


Test Graphs

DH5_Ant_Low_2402



DH5_Ant_High_2480



DH5_Ant_Low_Hop_2402

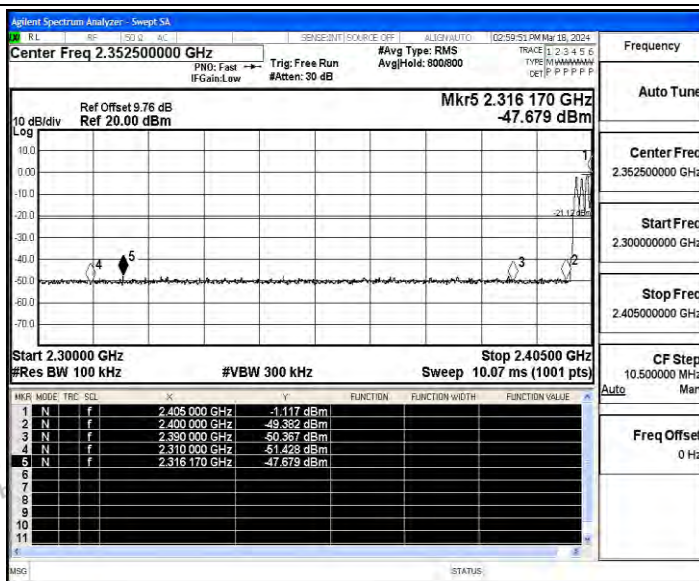


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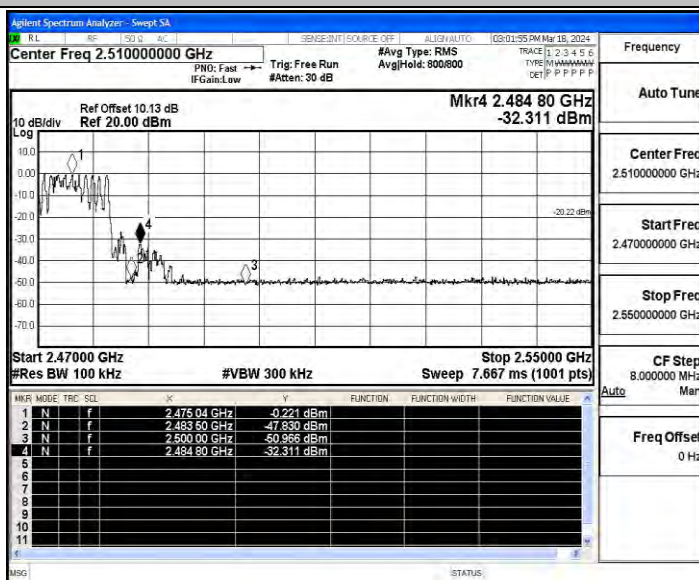
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DH5_Ant_High_Hop_2480



2DH5_Ant_Low_2402

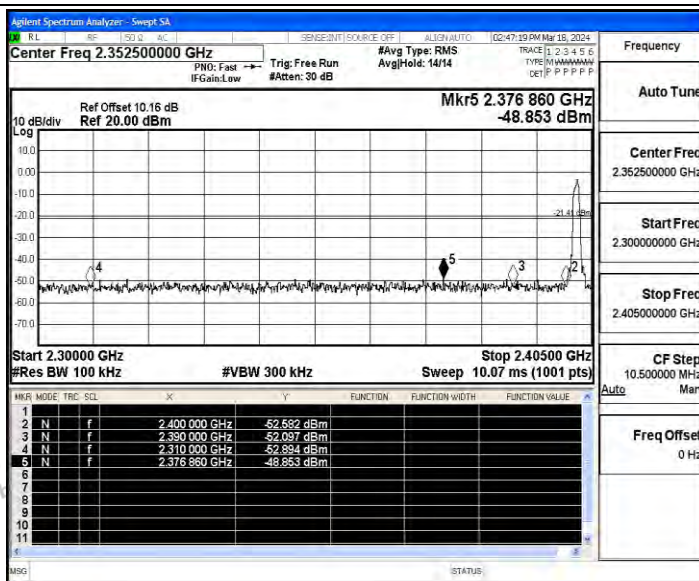


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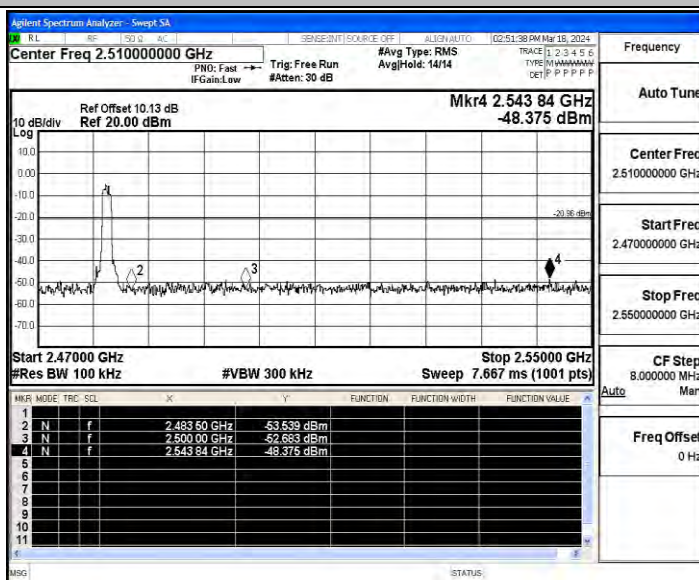
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2DH5_Ant_High_2480



2DH5_Ant_Low_Hop_2402

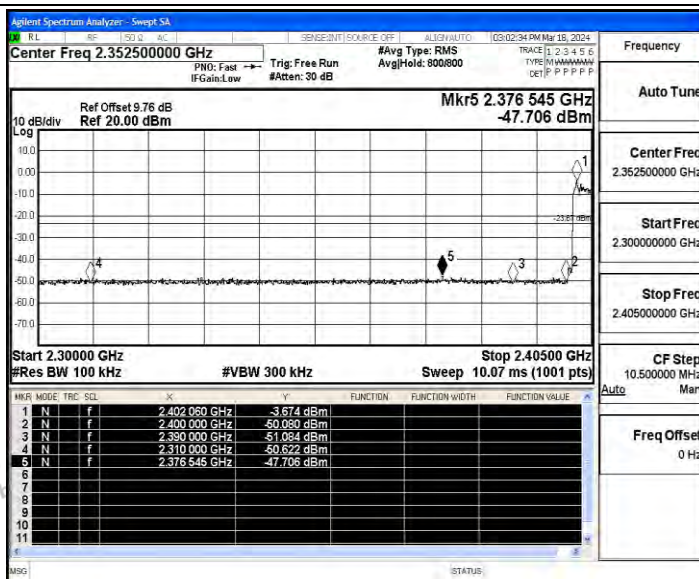


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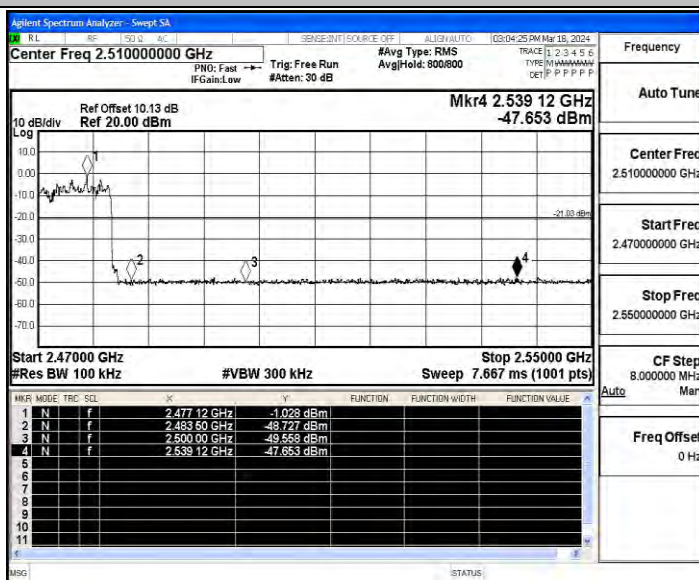
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2DH5_Ant_High_Hop_2480



3DH5_Ant_Low_2402

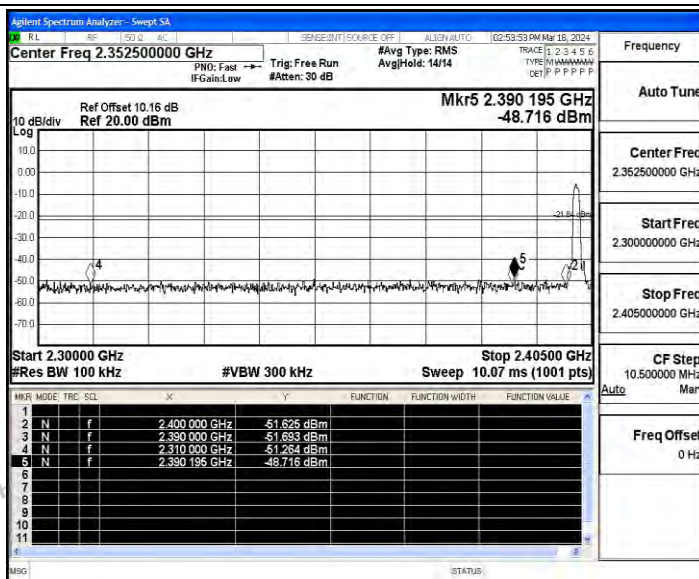


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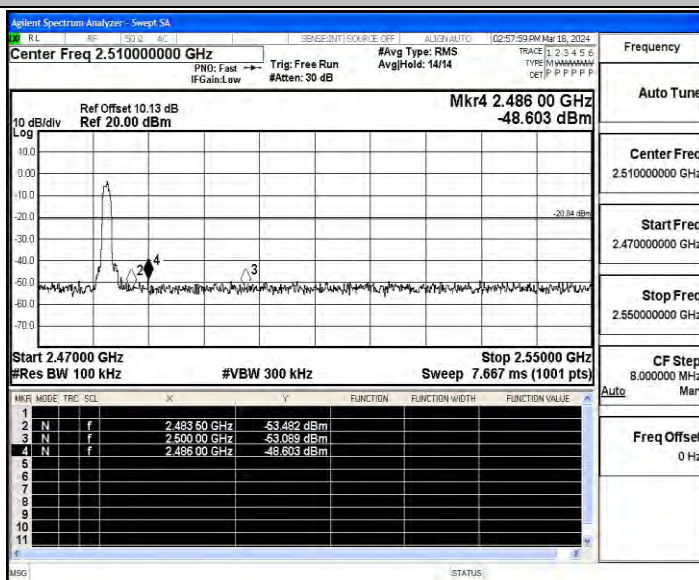
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3DH5_Ant_High_2480



3DH5_Ant_Low_Hop_2402

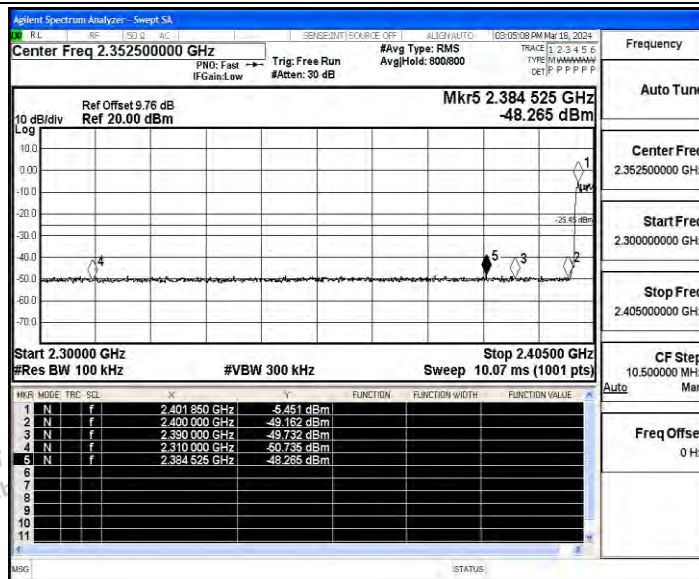


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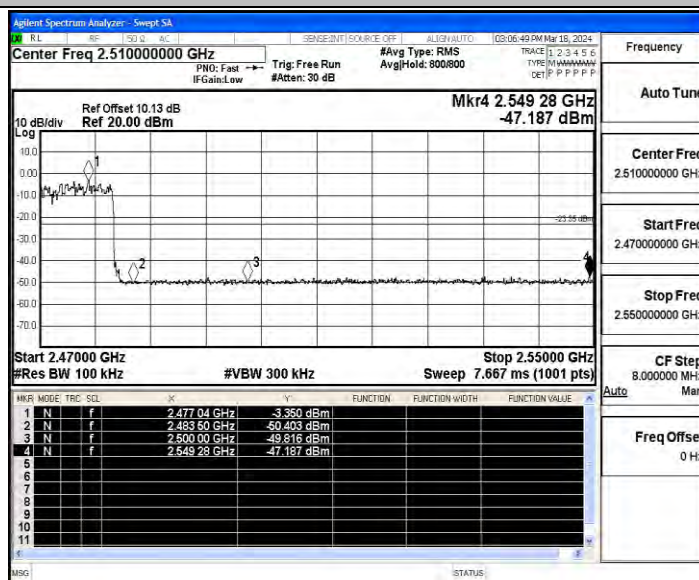
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3DH5_Ant_High_Hop_2480



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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	Ant	2402	30~1000	-0.50	-60.05	≤ -20.5	PASS
			1000~26500	-0.50	-47.5	≤ -20.5	PASS
		2441	30~1000	-0.39	-59.76	≤ -20.39	PASS
			1000~26500	-0.39	-46.59	≤ -20.39	PASS
		2480	30~1000	-0.07	-59.33	≤ -20.07	PASS
			1000~26500	-0.07	-46.8	≤ -20.07	PASS
2DH5	Ant	2402	30~1000	-1.41	-59.47	≤ -21.41	PASS
			1000~26500	-1.41	-46.76	≤ -21.41	PASS
		2441	30~1000	-0.95	-59.38	≤ -20.95	PASS
			1000~26500	-0.95	-47.35	≤ -20.95	PASS
		2480	30~1000	-0.96	-59.61	≤ -20.96	PASS
			1000~26500	-0.96	-47.12	≤ -20.96	PASS
3DH5	Ant	2402	30~1000	-1.84	-59.92	≤ -21.84	PASS
			1000~26500	-1.84	-47.17	≤ -21.84	PASS
		2441	30~1000	-1.92	-59.23	≤ -21.92	PASS
			1000~26500	-1.92	-46.58	≤ -21.92	PASS
		2480	30~1000	-0.84	-59.57	≤ -20.84	PASS
			1000~26500	-0.84	-46.53	≤ -20.84	PASS



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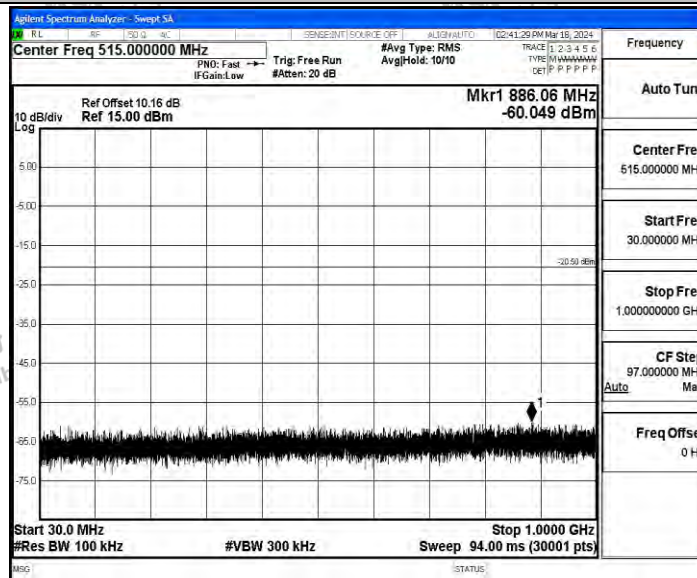
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

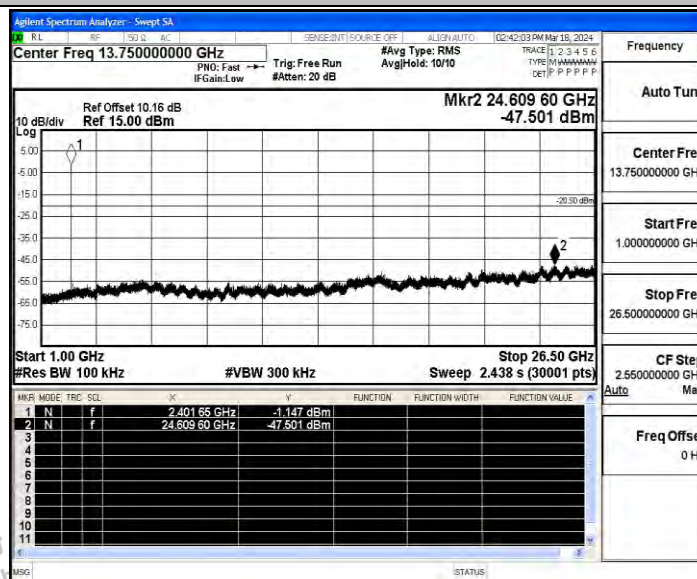


Test Graphs

DH5_Ant_2402_30~1000



DH5_Ant_2402_1000~26500



DH5_Ant_2441_30~1000

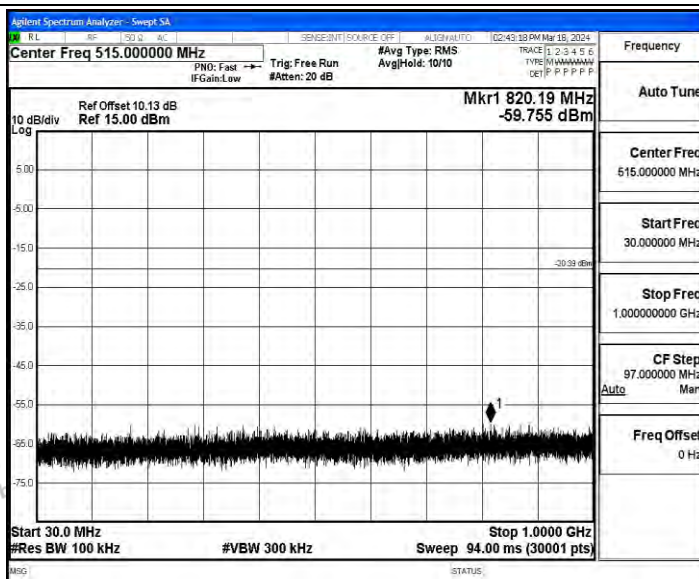


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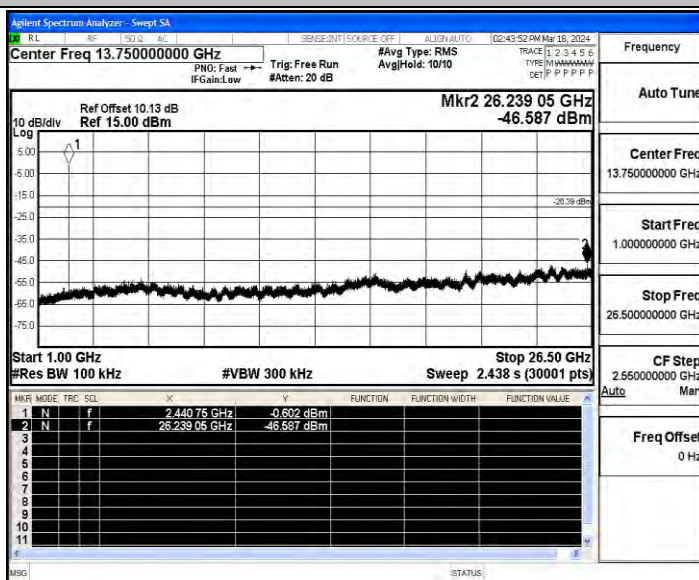
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DH5_Ant_2441_1000~26500



DH5_Ant_2480_30~1000

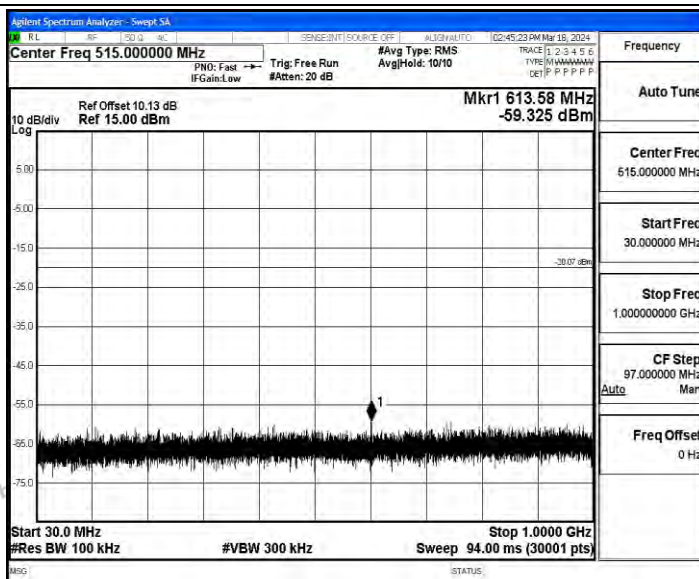


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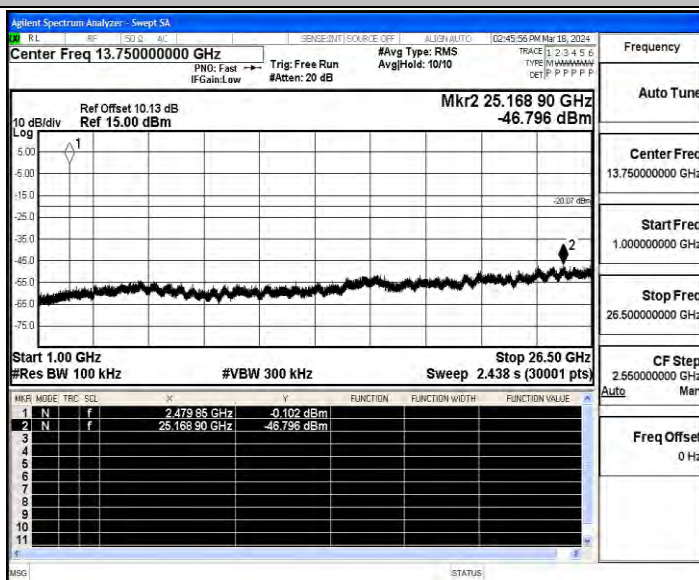
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DH5_Ant_2480_1000~26500



2DH5_Ant_2402_30~1000

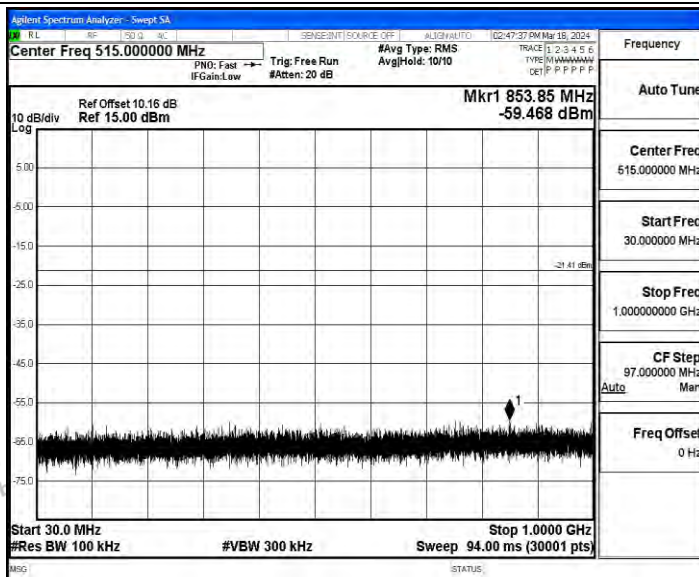


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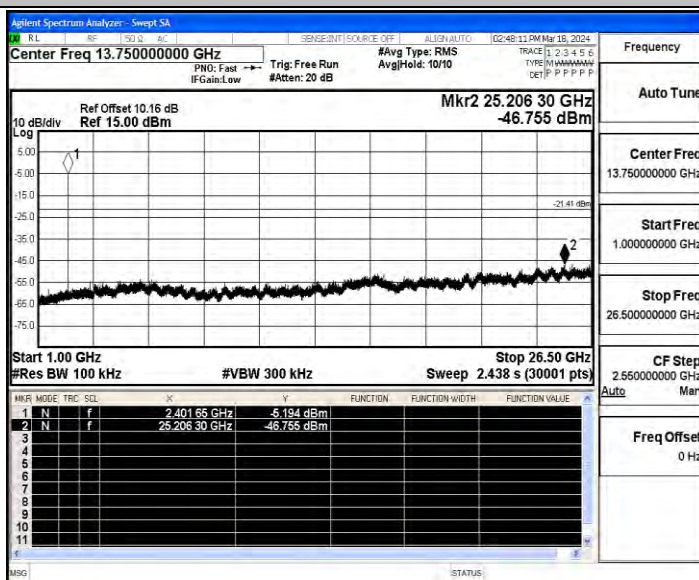
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2DH5_Ant_2402_1000~26500



2DH5_Ant_2441_30~1000

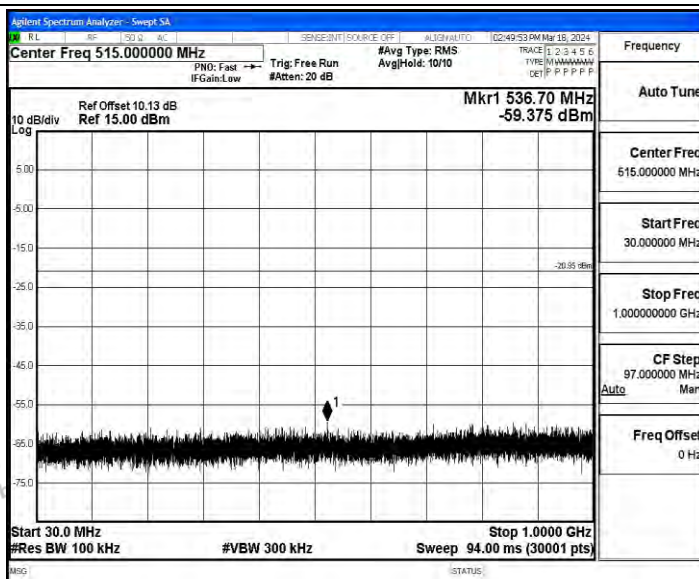


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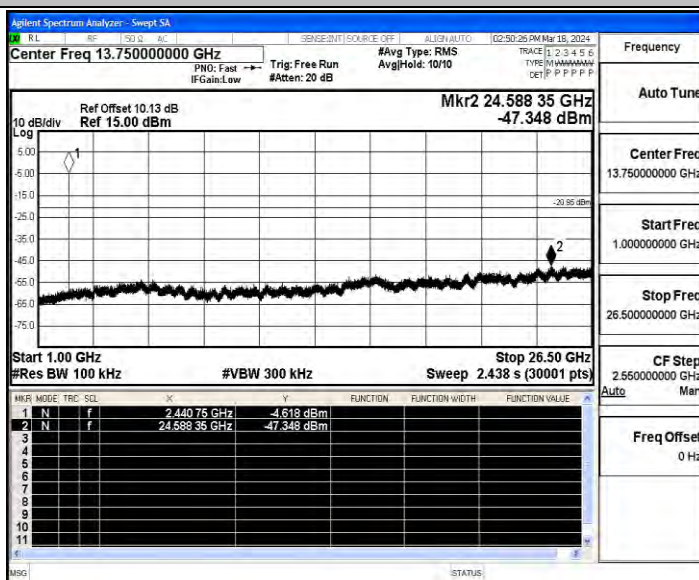
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant_2441_1000~26500



2DH5_Ant_2480_30~1000

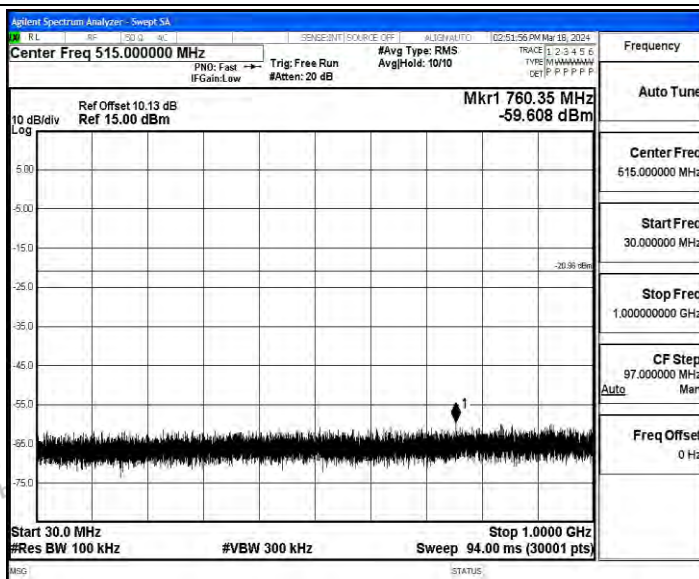


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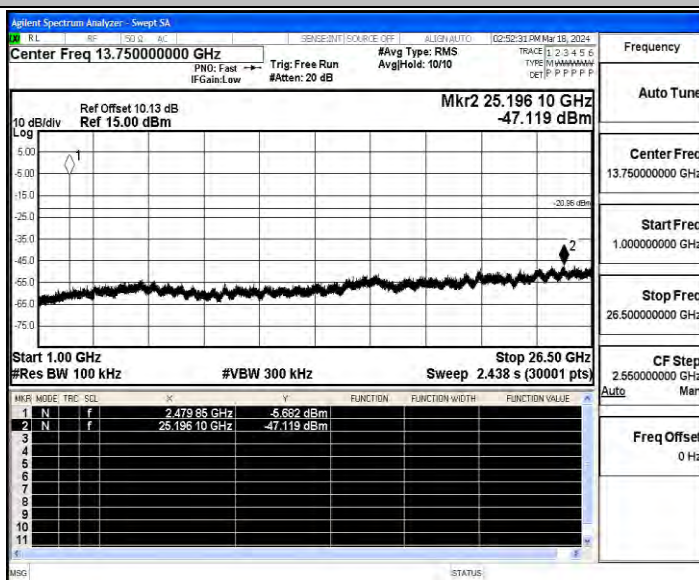
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant_2480_1000~26500



3DH5_Ant_2402_30~1000

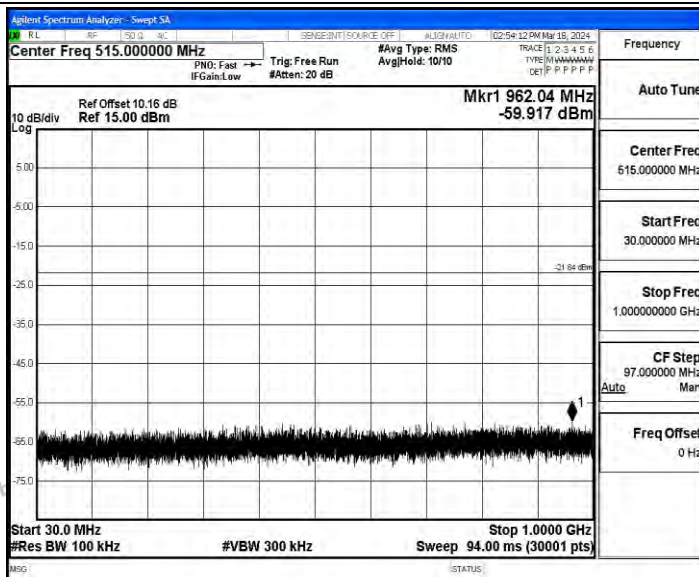


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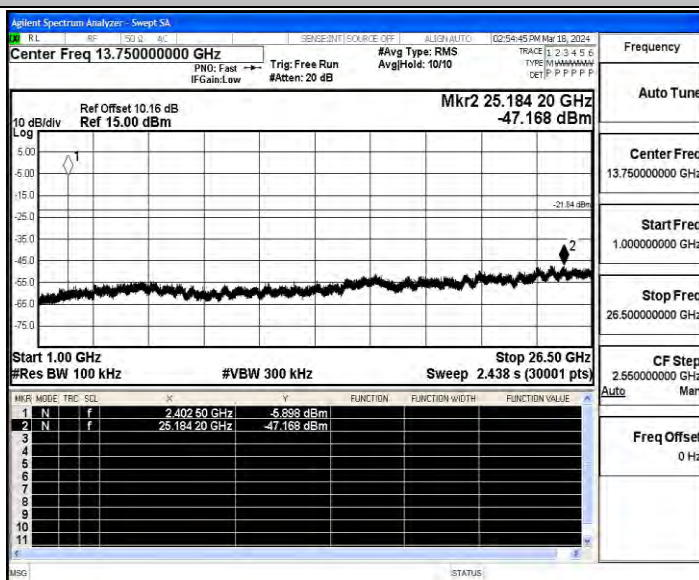
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5_Ant_2402_1000~26500



3DH5_Ant_2441_30~1000

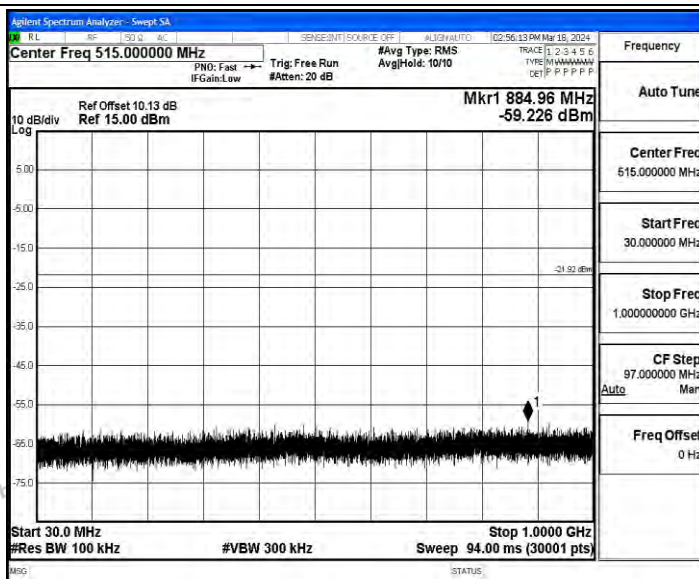


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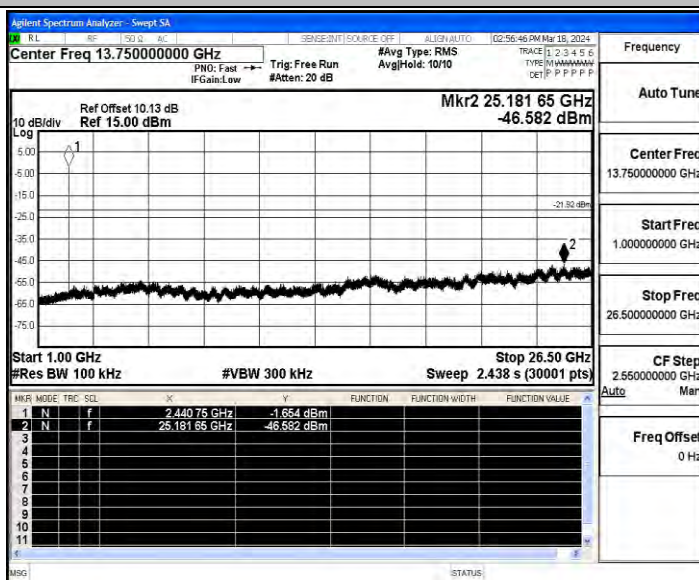
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5_Ant_2441_1000~26500



3DH5_Ant_2480_30~1000

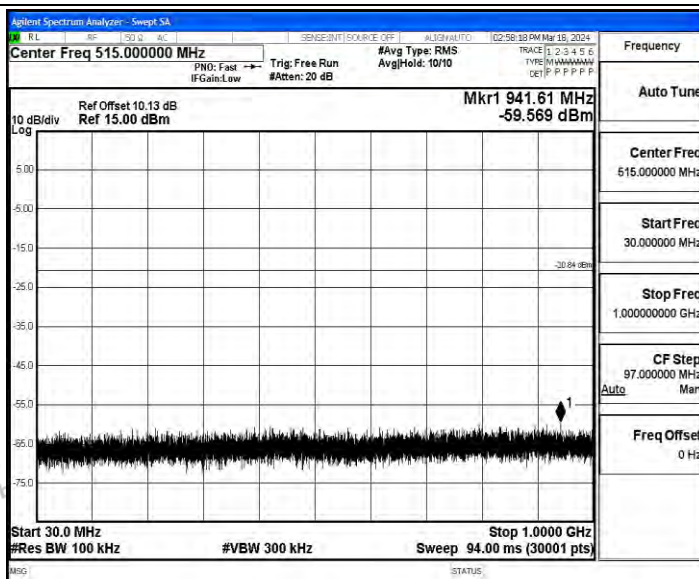


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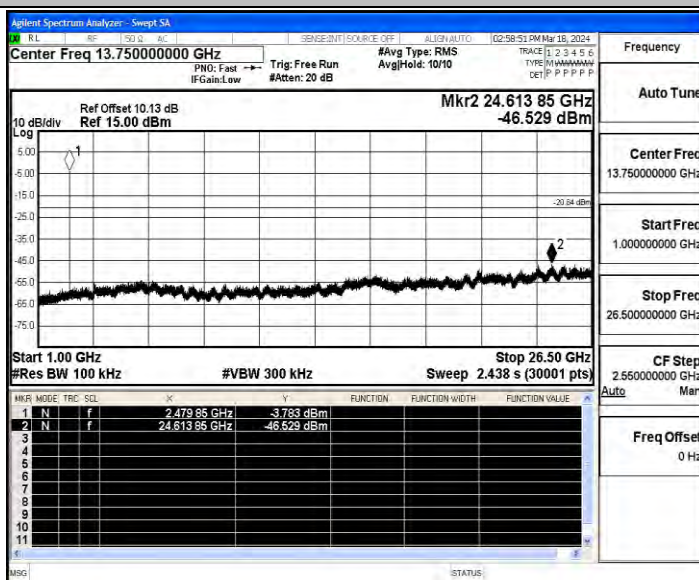
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3DH5_Ant_2480_1000~26500



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Reference Level

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	2402	2401.83	-0.50	---	PASS
		2441	2441.04	-0.39	---	PASS
		2480	2479.85	-0.07	---	PASS
2DH5	Ant	2402	2402.14	-1.41	---	PASS
		2441	2440.83	-0.95	---	PASS
		2480	2480.14	-0.96	---	PASS
3DH5	Ant	2402	2402.14	-1.84	---	PASS
		2441	2441.12	-1.92	---	PASS
		2480	2480.14	-0.84	---	PASS



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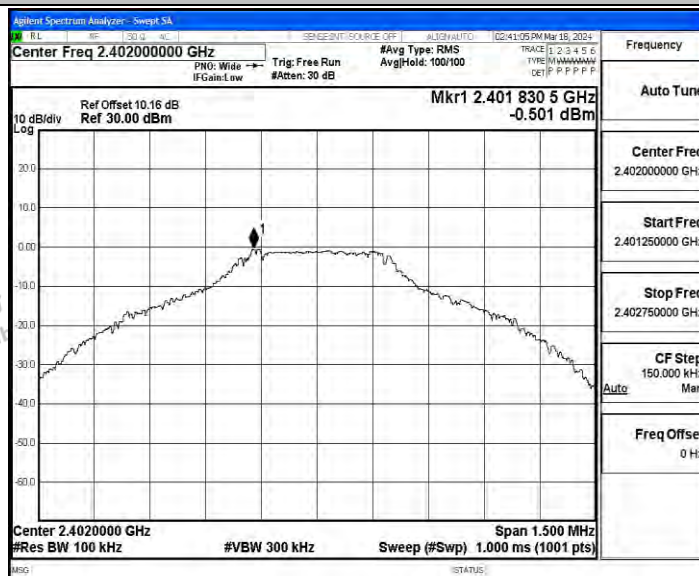
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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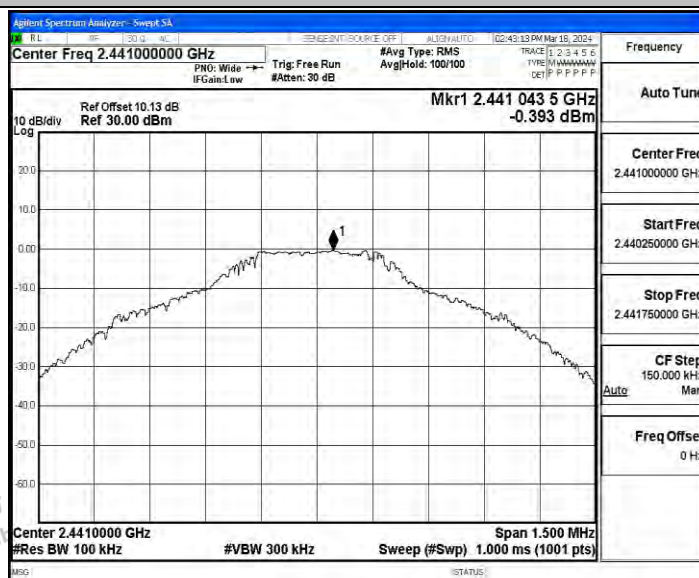


Test Graphs

DH5_Ant_2402



DH5_Ant_2441



DH5_Ant_2480

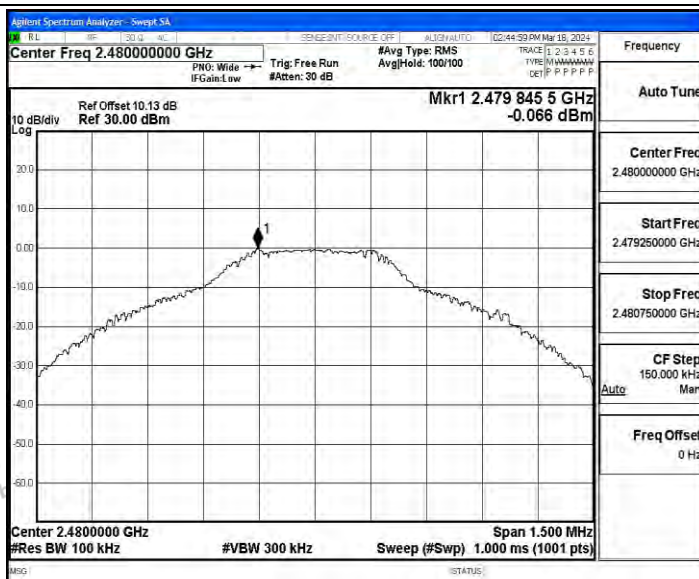


Shenzhen LCS Compliance Testing Laboratory Ltd.

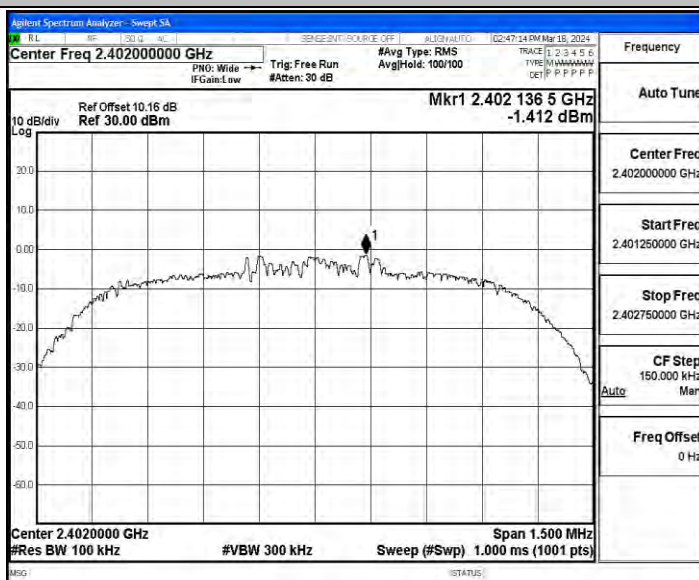
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant_2402



2DH5_Ant_2441

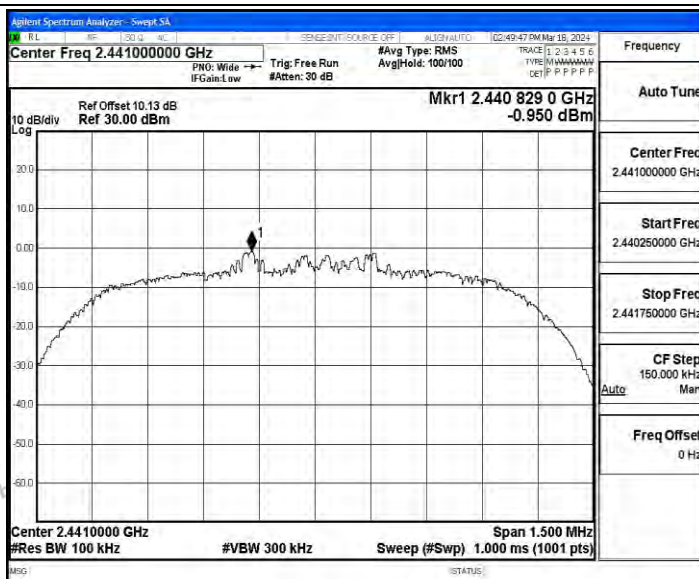


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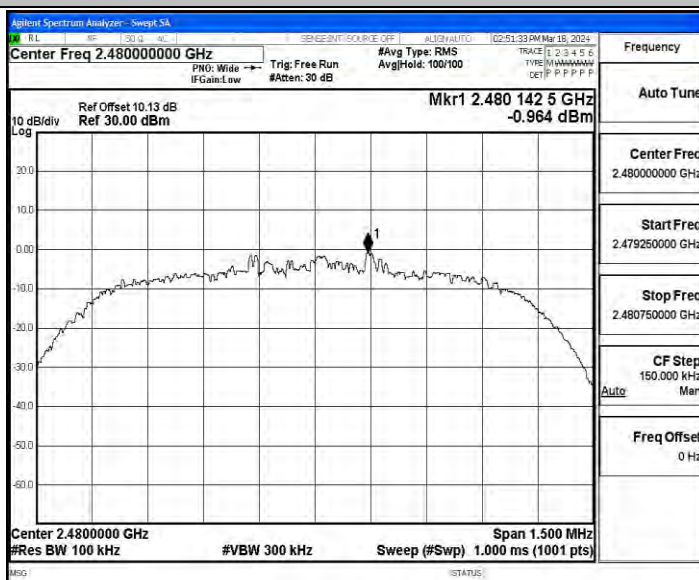
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant_2480



3DH5_Ant_2402

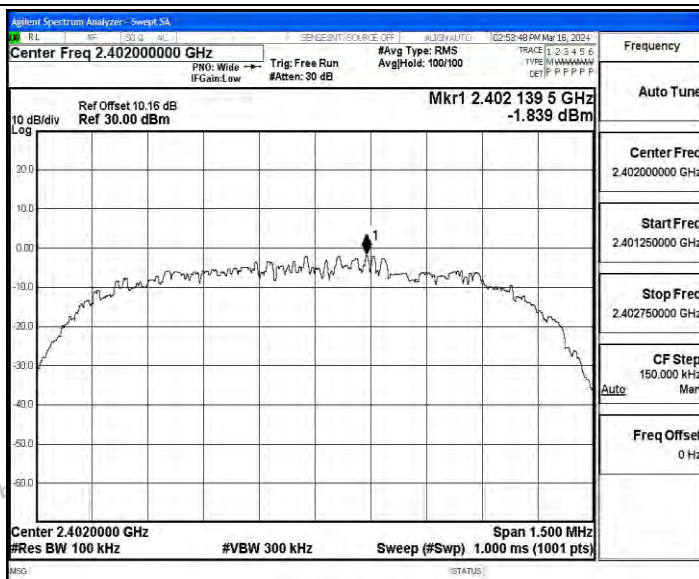


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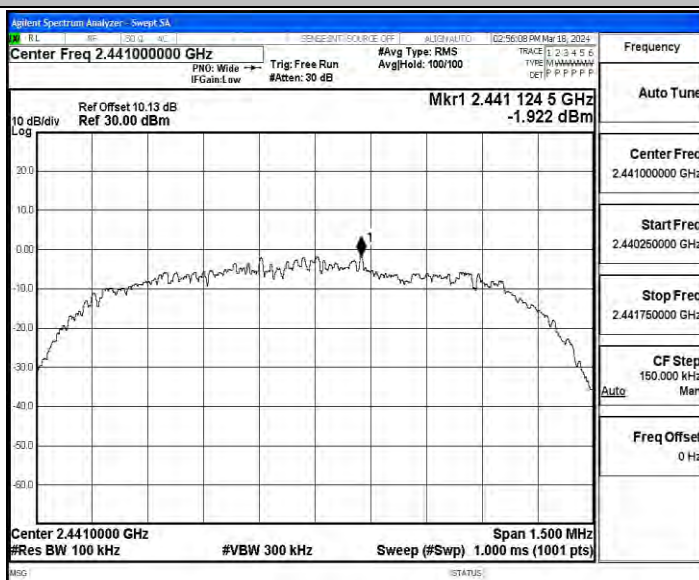
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5_Ant_2441



3DH5_Ant_2480

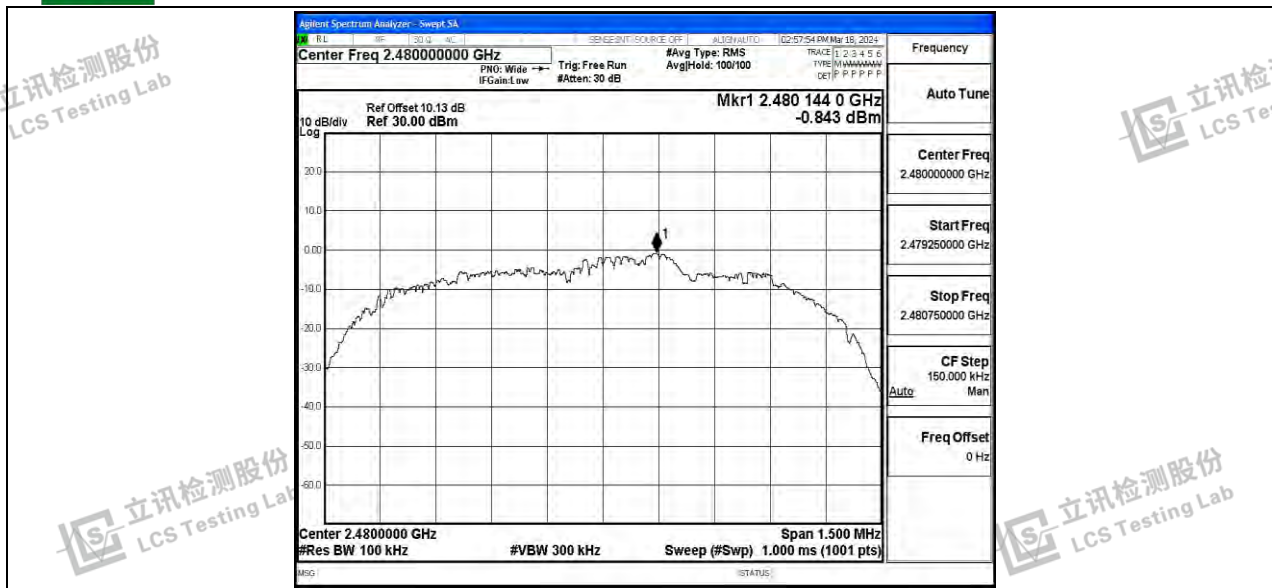


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A.8 Duty Cycle

Test Result

TestMode	Antenna	Frequency[M Hz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[kHz]
DH5	Ant	2402	2.88	3.75	76.80	1.15	0.35
		2441	2.88	3.75	76.80	1.15	0.35
		2480	2.88	3.75	76.80	1.15	0.35
2DH5	Ant	2402	2.89	3.75	77.07	1.13	0.35
		2441	2.88	3.75	76.80	1.15	0.35
		2480	2.89	3.75	77.07	1.13	0.35
3DH5	Ant	2402	2.89	3.75	77.07	1.13	0.35
		2441	2.89	3.75	77.07	1.13	0.35
		2480	2.89	3.75	77.07	1.13	0.35



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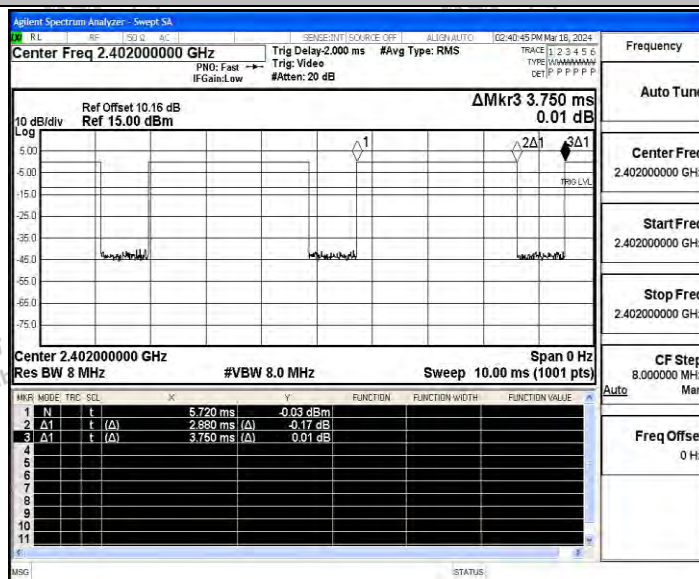
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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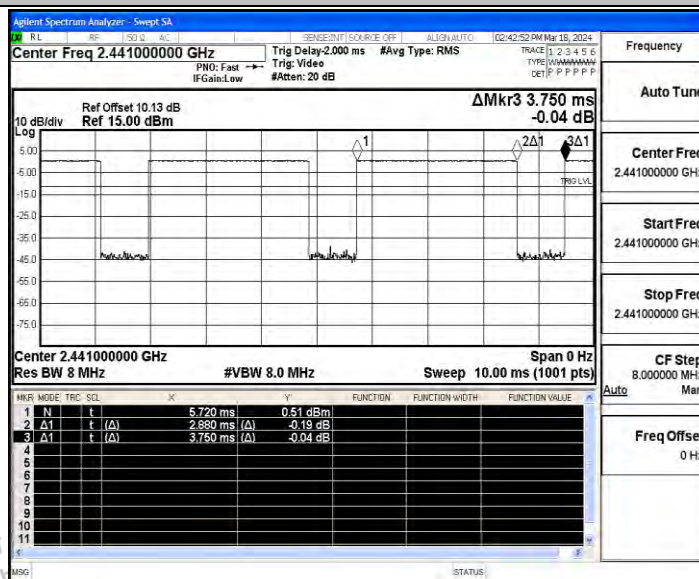


Test Graphs

DH5_Ant_2402



DH5_Ant_2441



DH5_Ant_2480

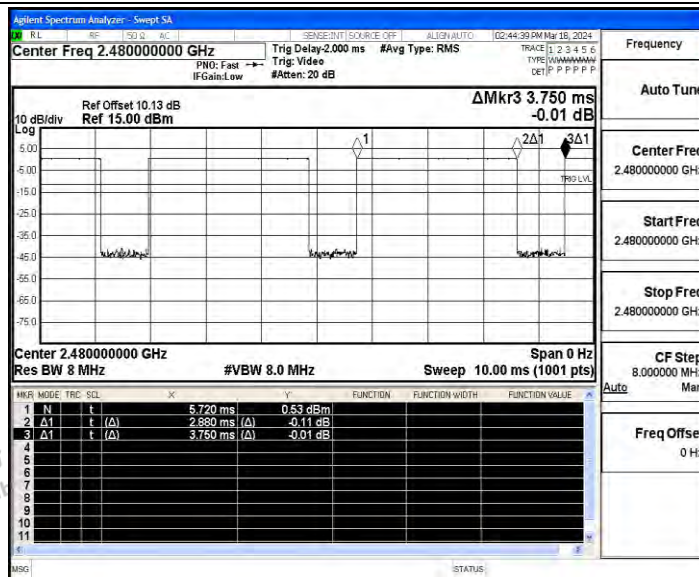


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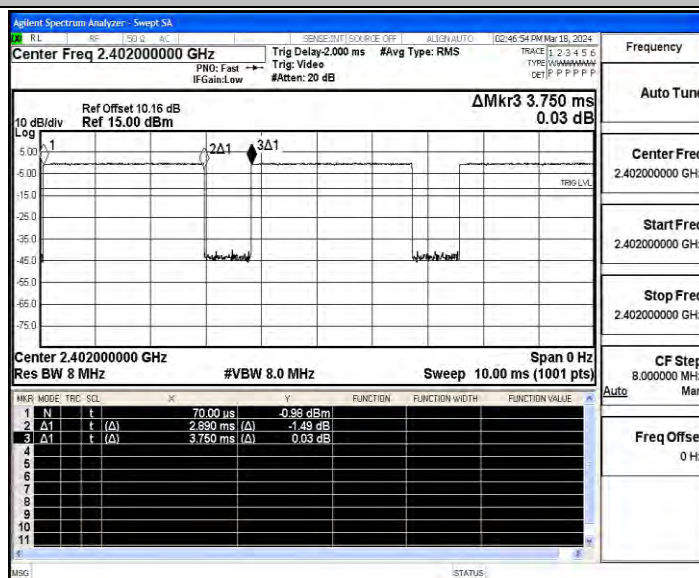
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant_2402



2DH5_Ant_2441

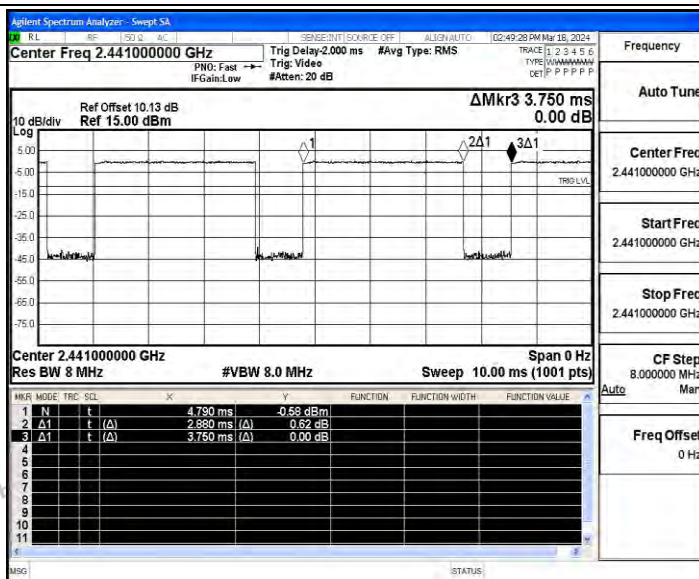


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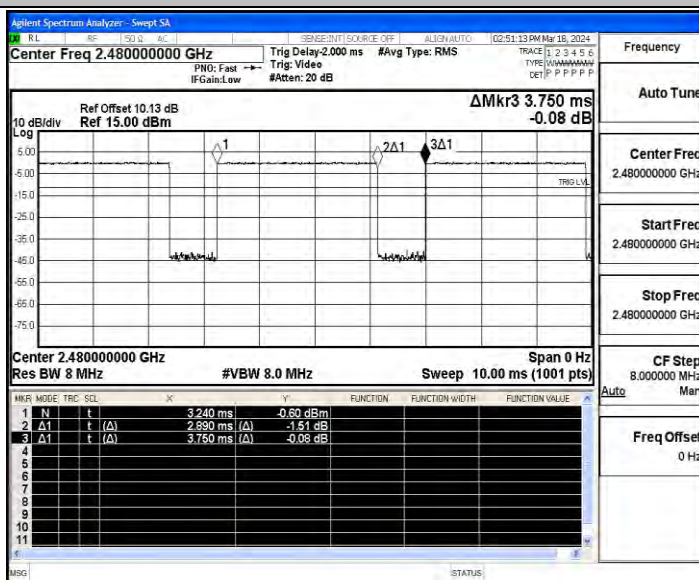
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2DH5_Ant_2480



3DH5_Ant_2402

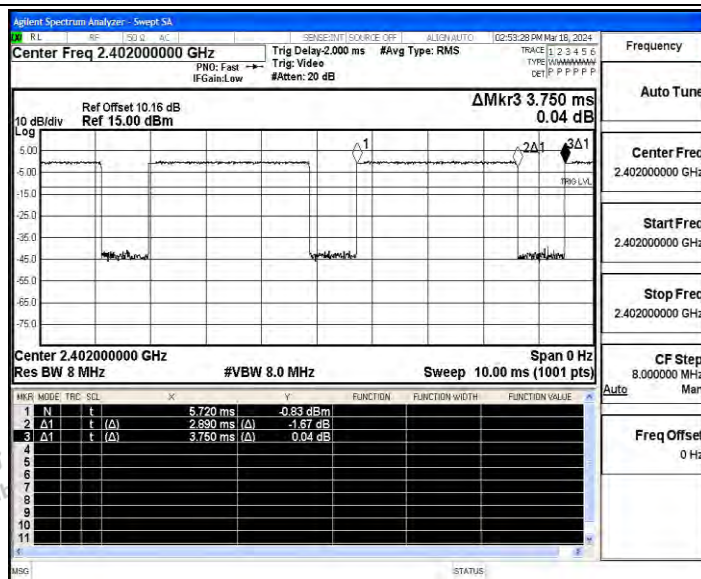


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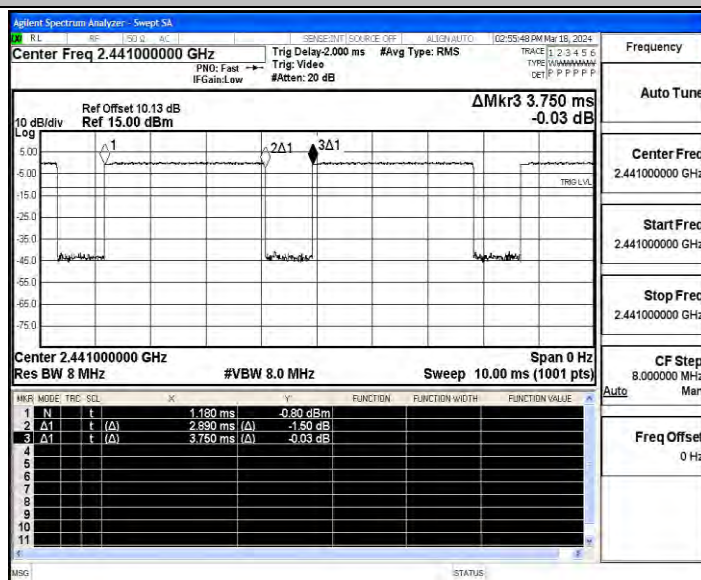
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3DH5_Ant_2441



3DH5_Ant_2480

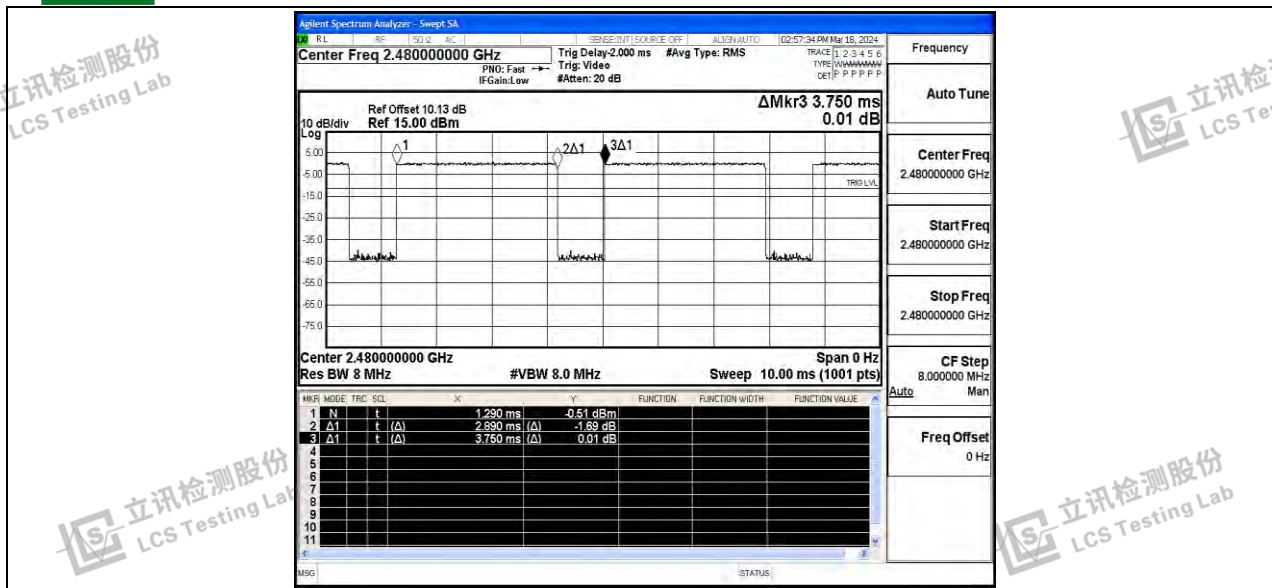


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A.9 Emissions in Restricted Bands

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant	Low	2402	AV	2310.000	-46.89	≤-41.20	48.31	≤54	PASS
				AV	2368.880	-45.85	≤-41.20	49.35	≤54	PASS
				AV	2390.000	-46.54	≤-41.20	48.66	≤54	PASS
				Peak	2310.000	-39.22	≤-21.20	55.98	≤74	PASS
				Peak	2362.055	-36.25	≤-21.20	58.95	≤74	PASS
				Peak	2390.000	-39.79	≤-21.20	55.41	≤74	PASS
		High	2480	AV	2483.500	-46.25	≤-41.20	48.95	≤54	PASS
				AV	2483.600	-45.1	≤-41.20	50.10	≤54	PASS
				AV	2500.000	-45.97	≤-41.20	49.23	≤54	PASS
				Peak	2483.500	-39.17	≤-21.20	56.03	≤74	PASS
				Peak	2496.880	-36.07	≤-21.20	59.13	≤74	PASS
				Peak	2500.000	-40.93	≤-21.20	54.27	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-40.45	≤-21.20	54.75	≤74	PASS
				Peak	2337.065	-36.73	≤-21.20	58.47	≤74	PASS
				Peak	2390.000	-38.54	≤-21.20	56.66	≤74	PASS
		High	Hop_2480	Peak	2483.500	-37.72	≤-21.20	57.48	≤74	PASS
				Peak	2497.920	-36.9	≤-21.20	58.30	≤74	PASS
				Peak	2500.000	-39.13	≤-21.20	56.07	≤74	PASS
2DH5	Ant	Low	2402	AV	2310.000	-46.84	≤-41.20	48.36	≤54	PASS
				AV	2387.360	-45.86	≤-41.20	49.34	≤54	PASS
				AV	2390.000	-46.23	≤-41.20	48.97	≤54	PASS
				Peak	2310.000	-39.18	≤-21.20	56.02	≤74	PASS
				Peak	2358.170	-36.87	≤-21.20	58.33	≤74	PASS
				Peak	2390.000	-40.18	≤-21.20	55.02	≤74	PASS
		High	2480	AV	2483.500	-46.28	≤-41.20	48.92	≤54	PASS
				AV	2490.080	-45.68	≤-41.20	49.52	≤54	PASS
				AV	2500.000	-46.62	≤-41.20	48.58	≤54	PASS
				Peak	2483.500	-38.14	≤-21.20	57.06	≤74	PASS
				Peak	2484.640	-36.28	≤-21.20	58.92	≤74	PASS
				Peak	2500.000	-39.43	≤-21.20	55.77	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-39.68	≤-21.20	55.52	≤74	PASS
				Peak	2380.010	-37.02	≤-21.20	58.18	≤74	PASS
				Peak	2390.000	-40.72	≤-21.20	54.48	≤74	PASS
		High	Hop_2480	Peak	2483.500	-39.64	≤-21.20	55.56	≤74	PASS
				Peak	2487.600	-36.76	≤-21.20	58.44	≤74	PASS
				Peak	2500.000	-38.42	≤-21.20	56.78	≤74	PASS



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3DH5	Ant	Low	2402	AV	2310.000	-47.24	≤ -41.20	47.96	≤ 54	PASS
				AV	2380.325	-45.72	≤ -41.20	49.48	≤ 54	PASS
				AV	2390.000	-46.25	≤ -41.20	48.95	≤ 54	PASS
				Peak	2310.000	-39.58	≤ -21.20	55.62	≤ 74	PASS
				Peak	2359.430	-36.41	≤ -21.20	58.79	≤ 74	PASS
				Peak	2390.000	-38.39	≤ -21.20	56.81	≤ 74	PASS
		High	2480	AV	2483.500	-46.27	≤ -41.20	48.93	≤ 54	PASS
				AV	2493.120	-45.54	≤ -41.20	49.66	≤ 54	PASS
				AV	2500.000	-46.6	≤ -41.20	48.60	≤ 54	PASS
				Peak	2483.500	-39.96	≤ -21.20	55.24	≤ 74	PASS
				Peak	2487.440	-35.97	≤ -21.20	59.23	≤ 74	PASS
				Peak	2500.000	-40.72	≤ -21.20	54.48	≤ 74	PASS
		Low	Hop_2402	Peak	2310.000	-38.85	≤ -21.20	56.35	≤ 74	PASS
				Peak	2346.935	-37.08	≤ -21.20	58.12	≤ 74	PASS
				Peak	2390.000	-39.1	≤ -21.20	56.10	≤ 74	PASS
		High	Hop_2480	Peak	2483.500	-39.33	≤ -21.20	55.87	≤ 74	PASS
				Peak	2486.080	-36.85	≤ -21.20	58.35	≤ 74	PASS
				Peak	2500.000	-39.37	≤ -21.20	55.83	≤ 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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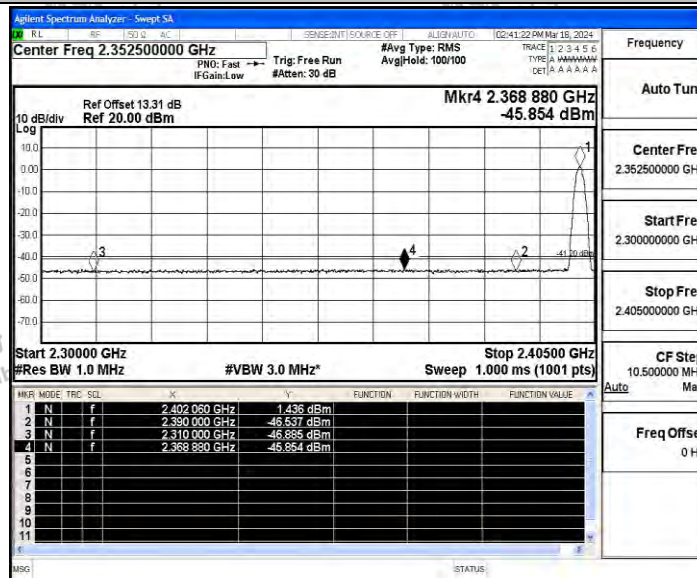
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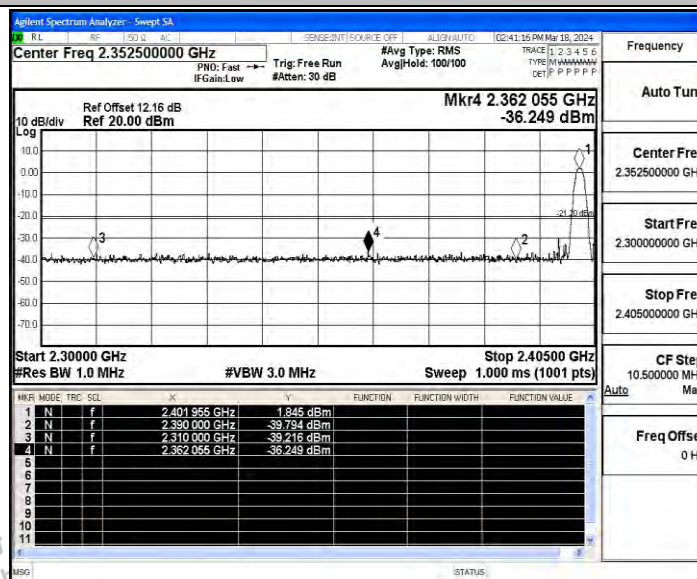


Test Graphs

DH5_Ant_Low_2402_AV



DH5_Ant_Low_2402_Peak



DH5_Ant_High_2480_AV

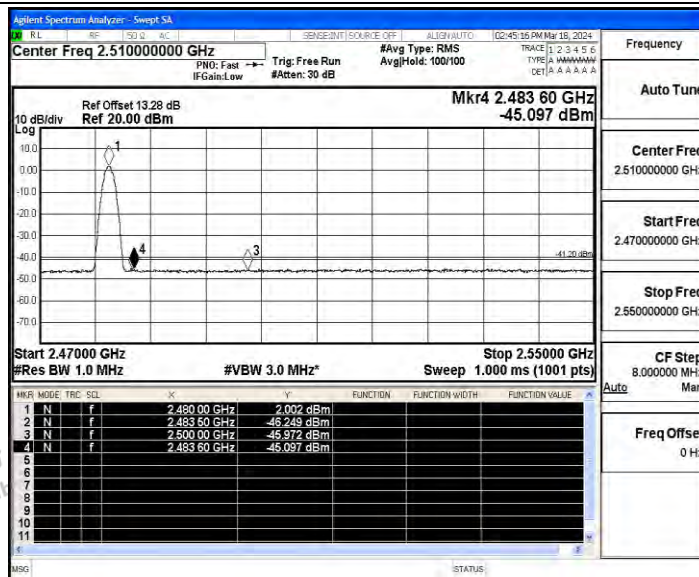


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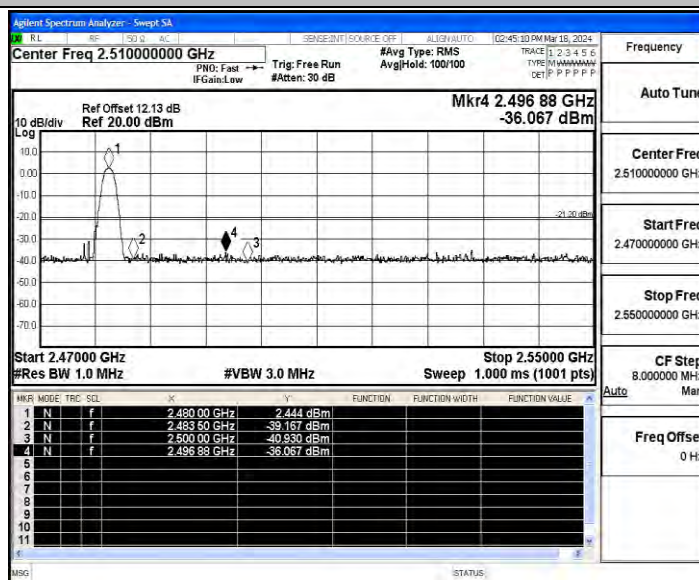
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DH5_Ant_High_2480_Peak



DH5_Ant_Low_Hop_2402_Peak

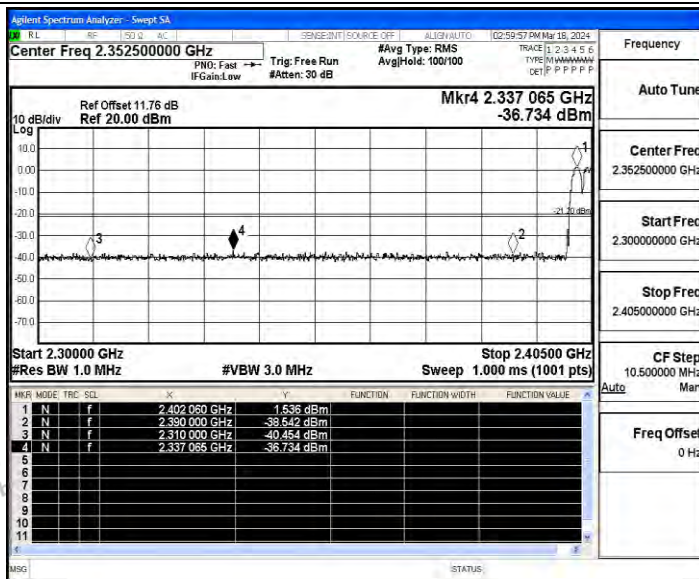


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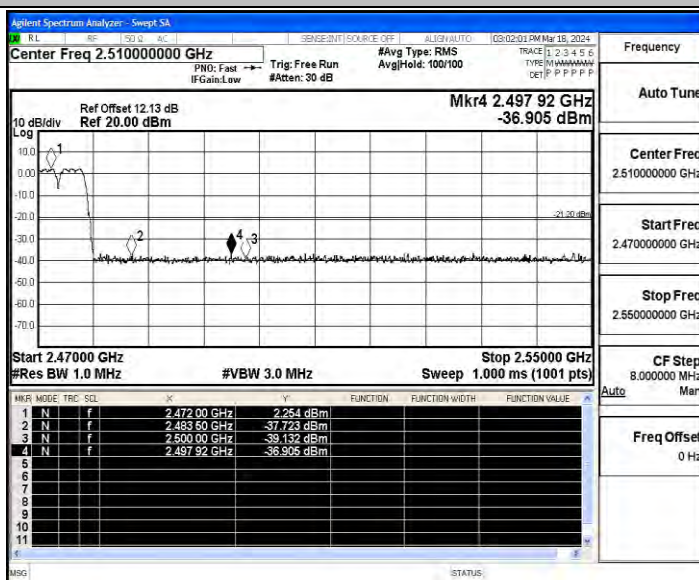
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DH5_Ant_High_Hop_2480_Peak



2DH5_Ant_Low_2402_AV

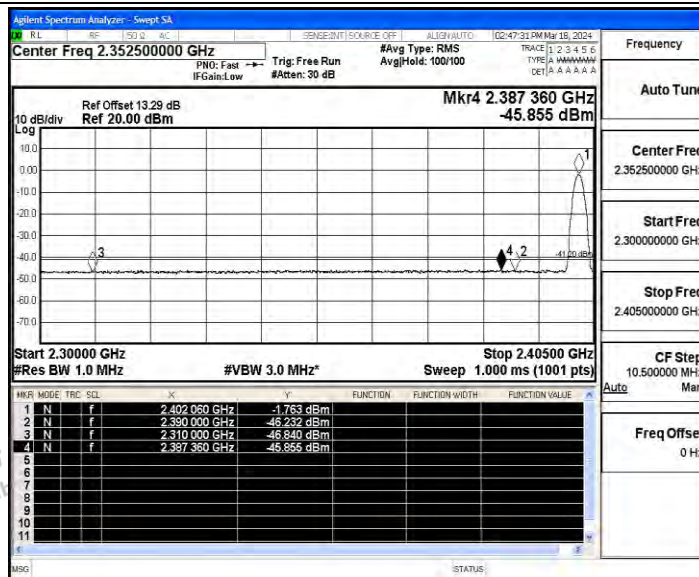


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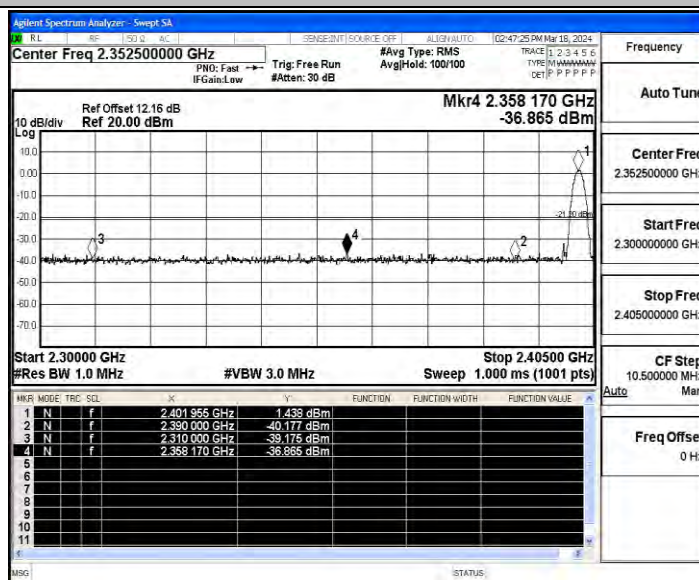
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2DH5_Ant_Low_2402_Peak



2DH5_Ant_High_2480_AV

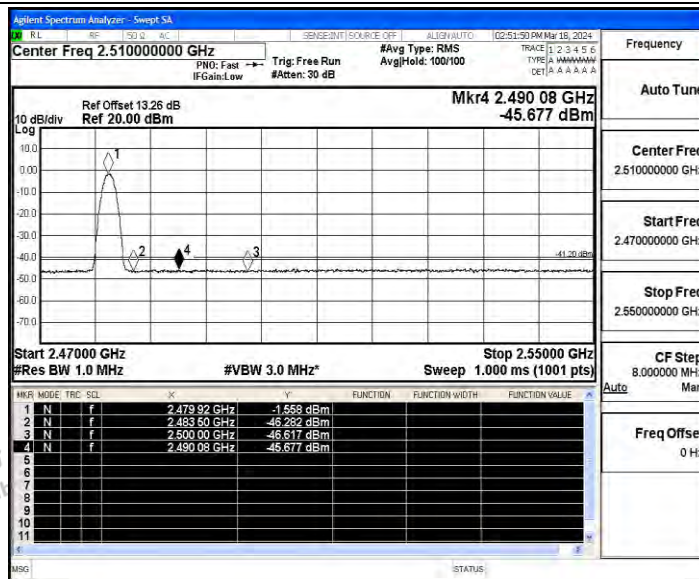


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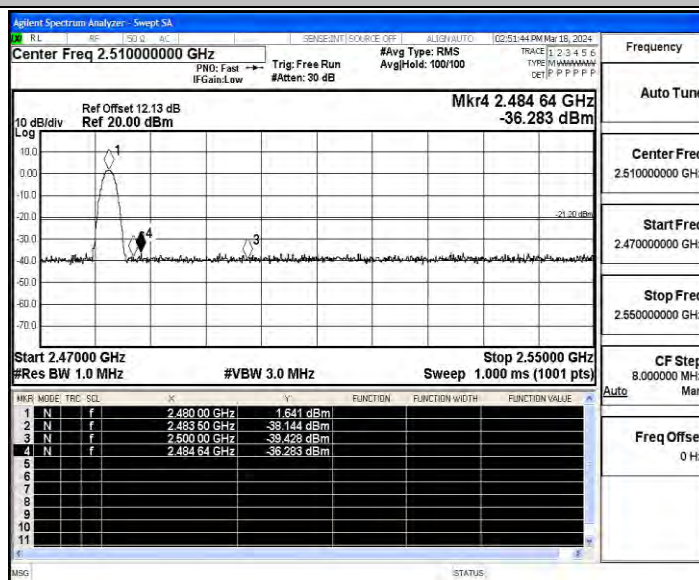
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2DH5_Ant_High_2480_Peak



2DH5_Ant_Low_Hop_2402_Peak

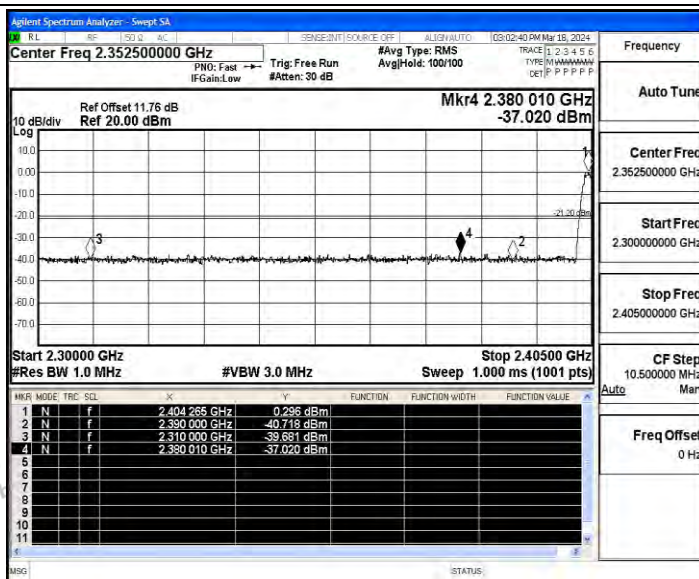


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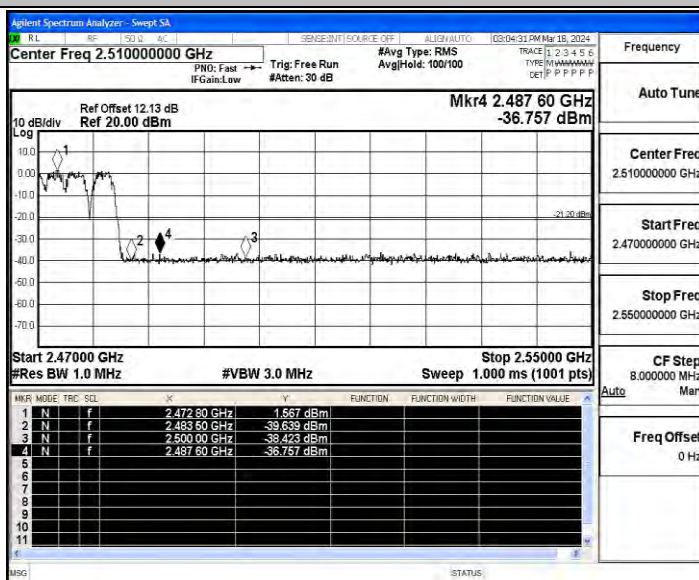
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2DH5_Ant_High_Hop_2480_Peak



3DH5_Ant_Low_2402_AV

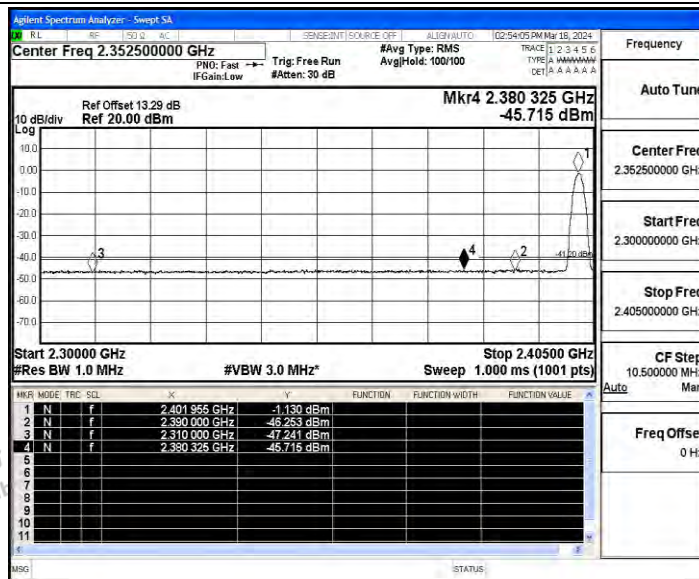


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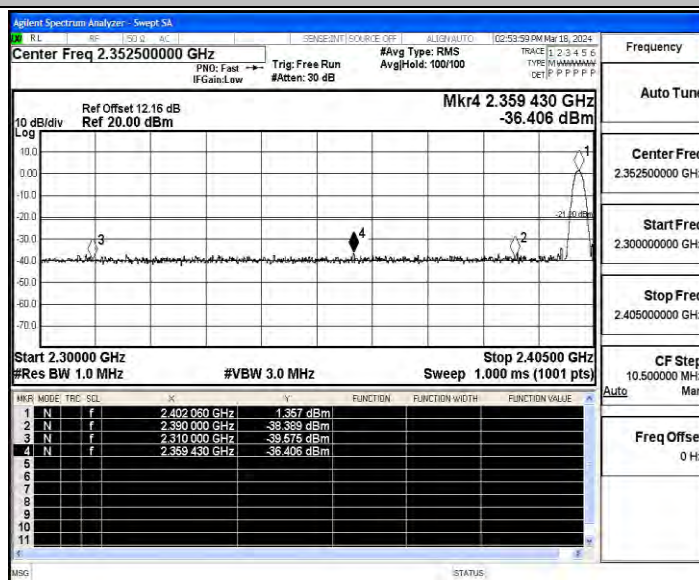
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3DH5_Ant_Low_2402_Peak



3DH5_Ant_High_2480_AV

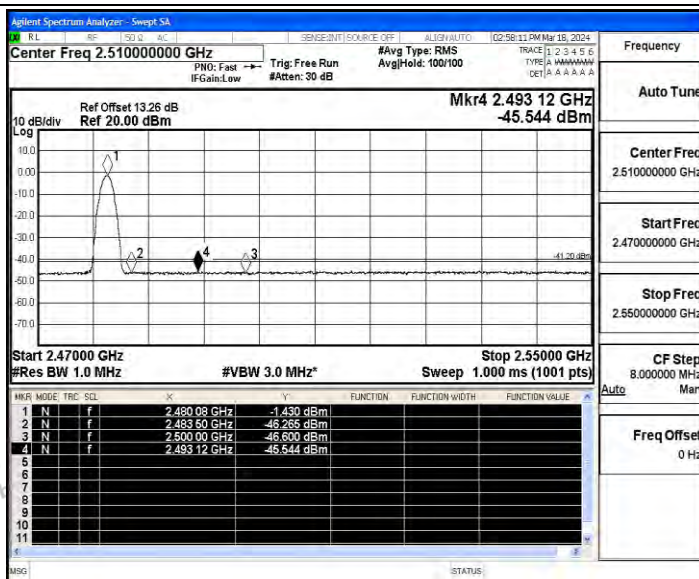


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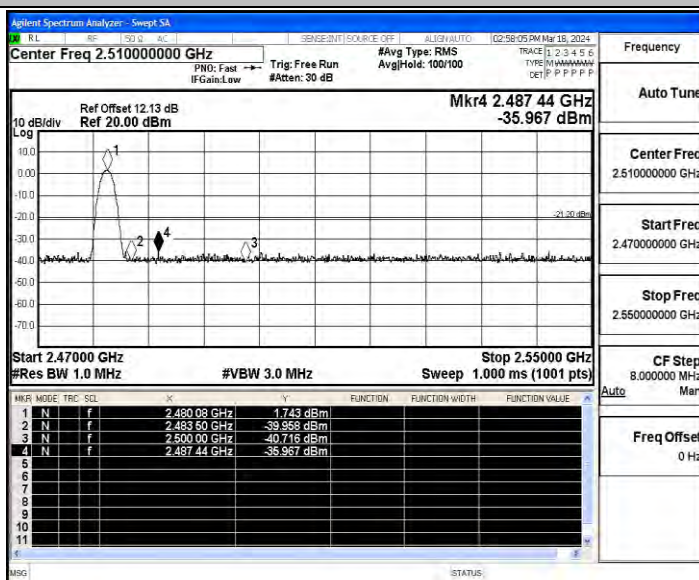
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3DH5_Ant_High_2480_Peak



3DH5_Ant_Low_Hop_2402_Peak

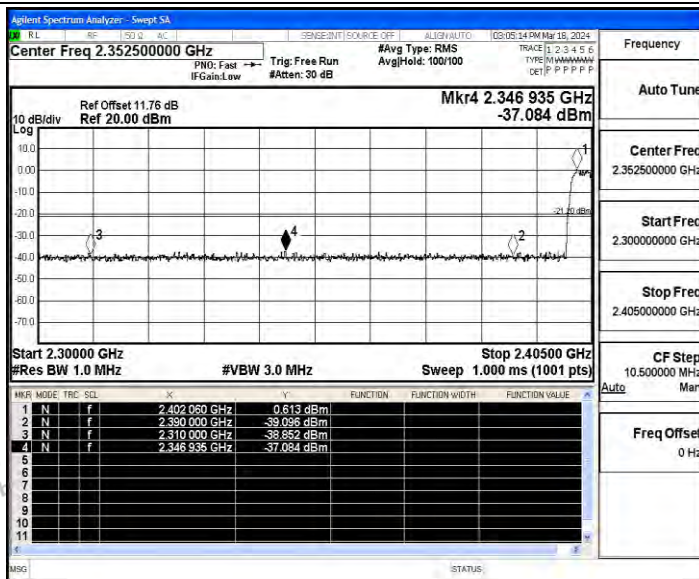


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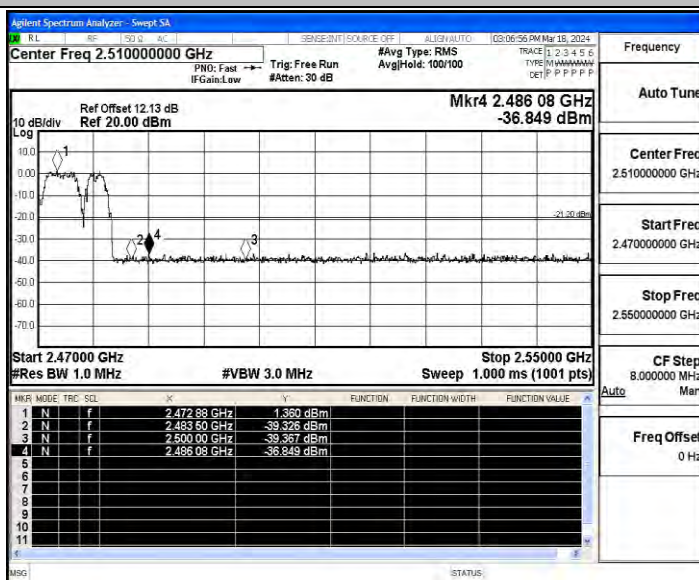
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3DH5_Ant_High_Hop_2480_Peak



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