



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: ROBOTIC POOL CLEANER

Test Model: OS7010C

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

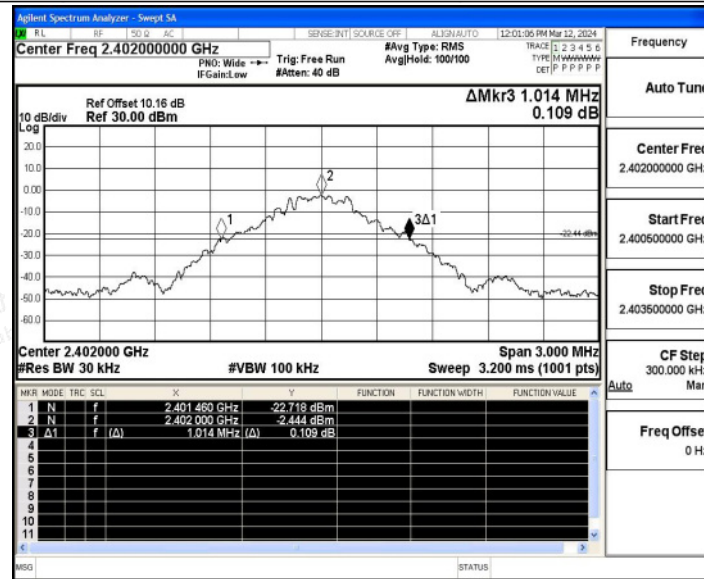
Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.014	2401.460	2402.474	---	---
		2441	1.029	2440.451	2441.480	---	---
		2480	0.990	2479.505	2480.495	---	---
2DH5	Ant1	2402	1.296	2401.346	2402.642	---	---
		2441	1.329	2440.319	2441.648	---	---
		2480	1.290	2479.349	2480.639	---	---
3DH5	Ant1	2402	1.296	2401.337	2402.633	---	---
		2441	1.287	2440.337	2441.624	---	---
		2480	1.275	2479.346	2480.621	---	---

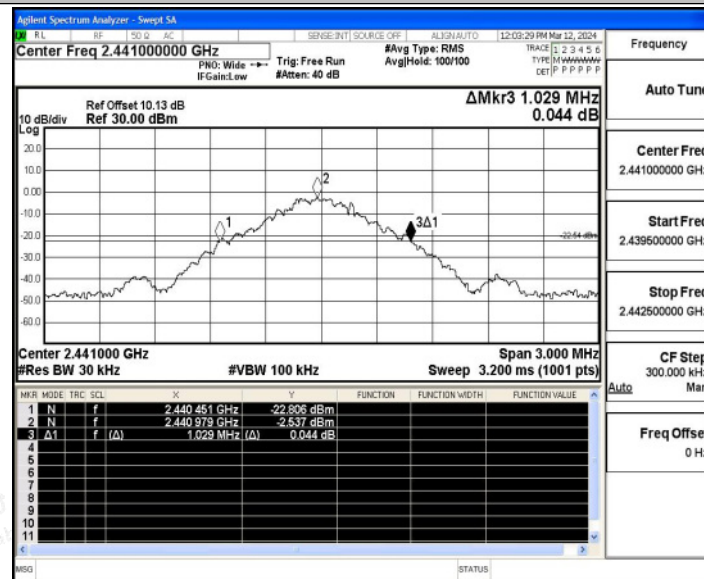


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

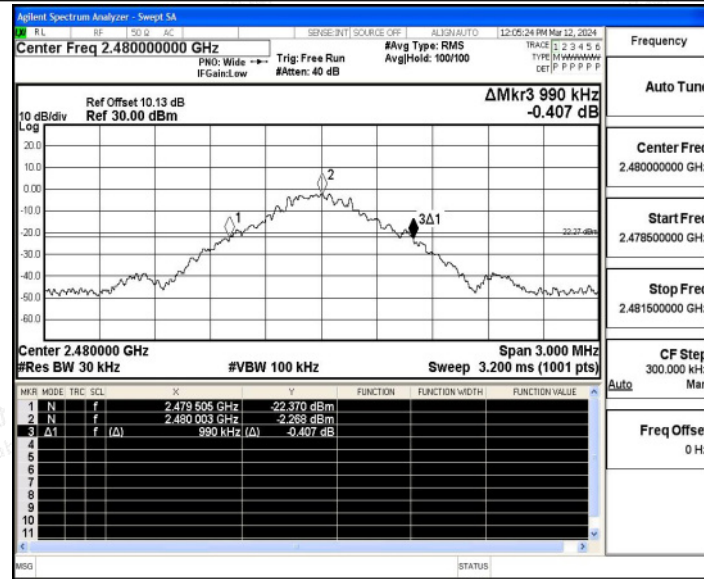


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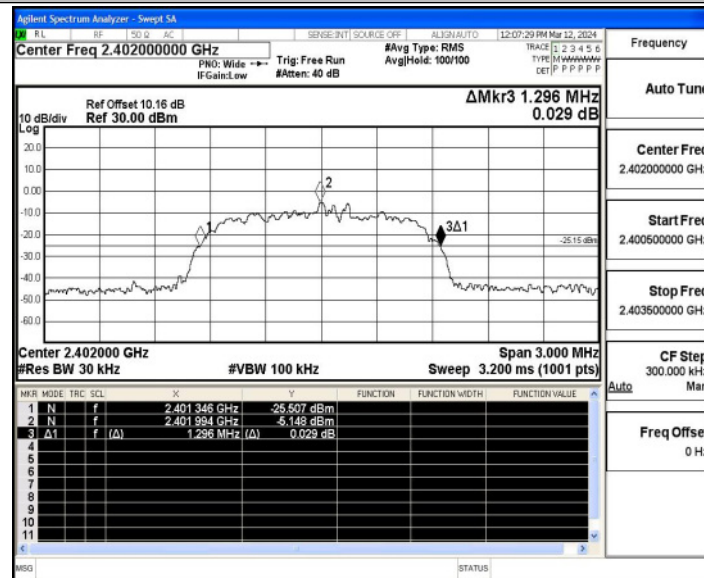
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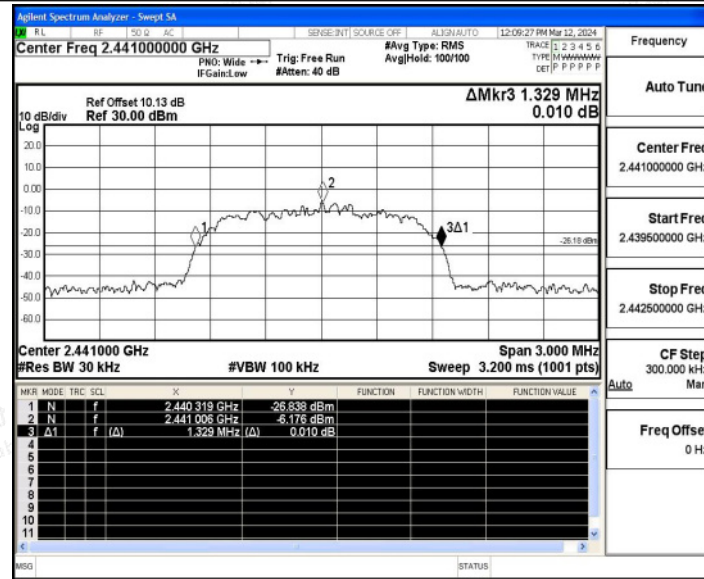


2DH5_Ant1_2402

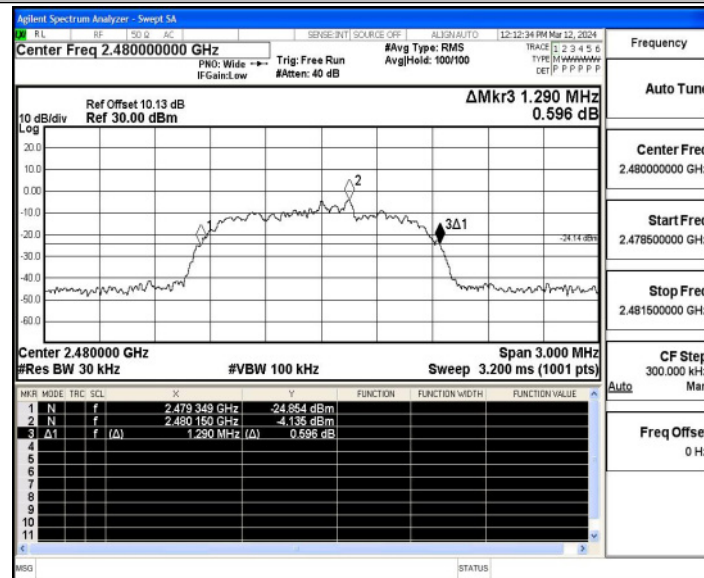


2DH5_Ant1_2441





2DH5_Ant1_2480



3DH5_Ant1_2402

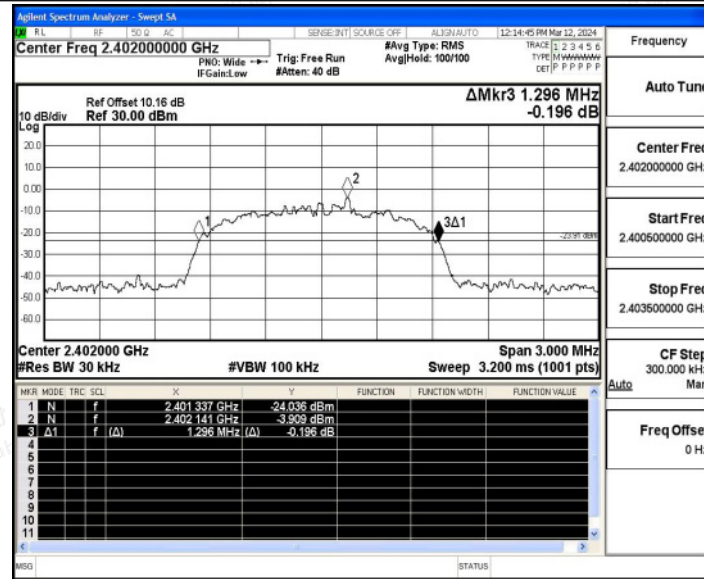


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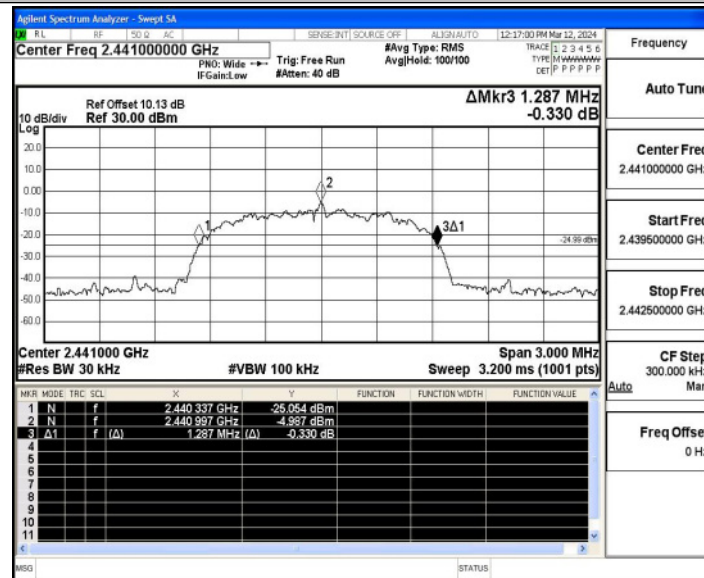
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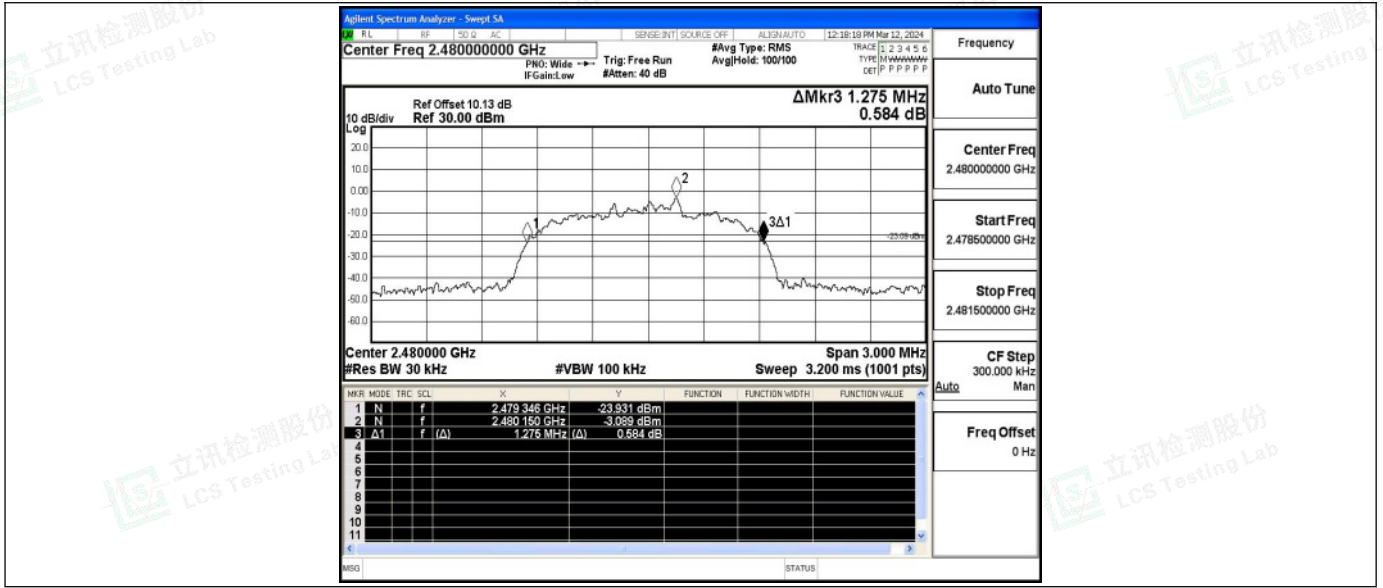


3DH5_Ant1_2441



3DH5_Ant1_2480







A.2 Maximum Peak Conducted Output Power

Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.71	≤20.97	PASS
		2441	0.85	≤20.97	PASS
		2480	0.96	≤20.97	PASS
2DH5	Ant1	2402	-0.17	≤20.97	PASS
		2441	0.06	≤20.97	PASS
		2480	0.32	≤20.97	PASS
3DH5	Ant1	2402	0.11	≤20.97	PASS
		2441	0.24	≤20.97	PASS
		2480	0.39	≤20.97	PASS



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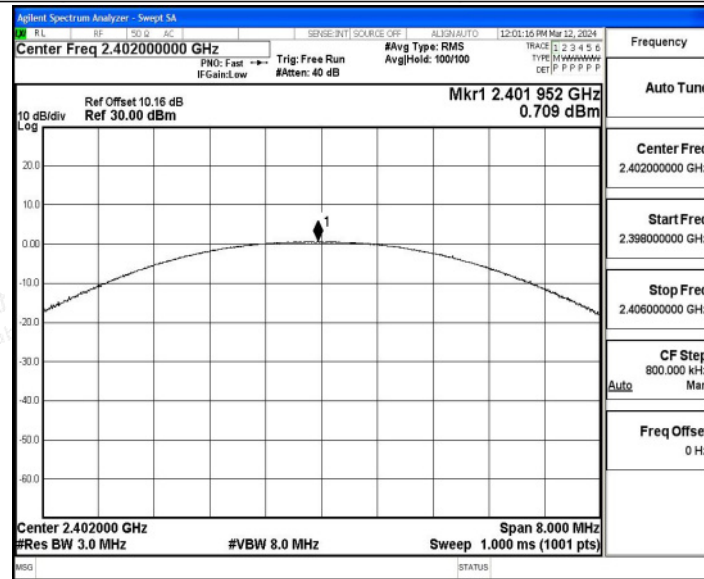
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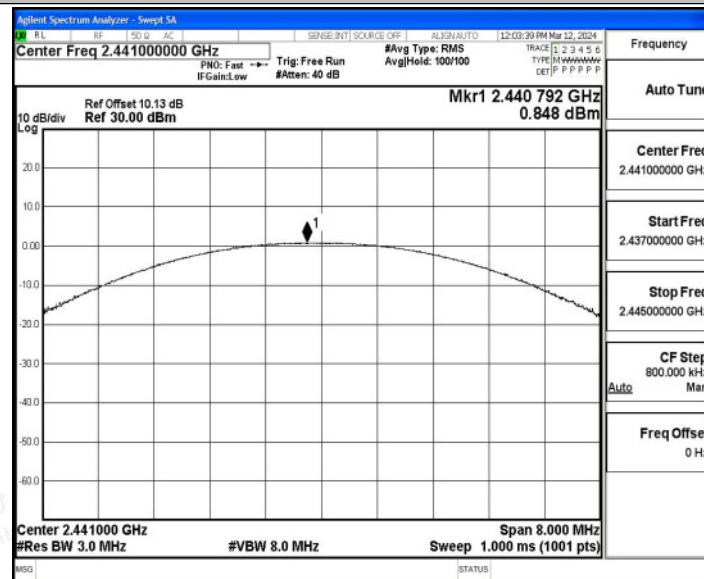


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

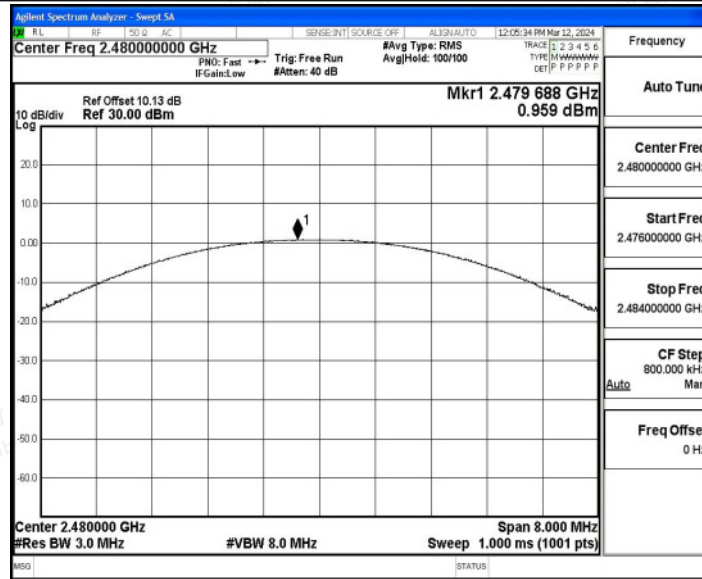


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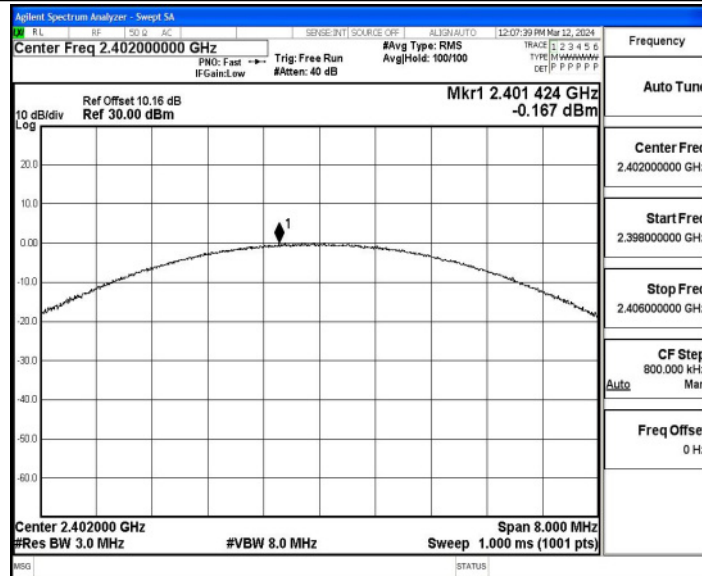
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2DH5_Ant1_2402



2DH5_Ant1_2441

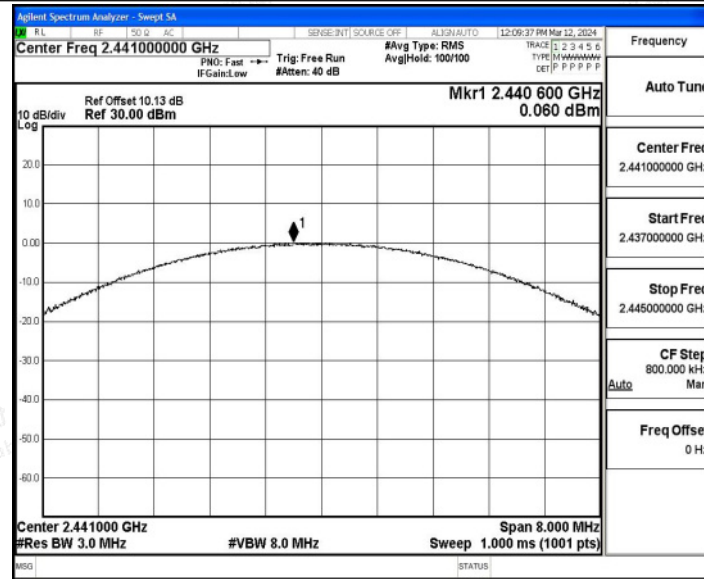


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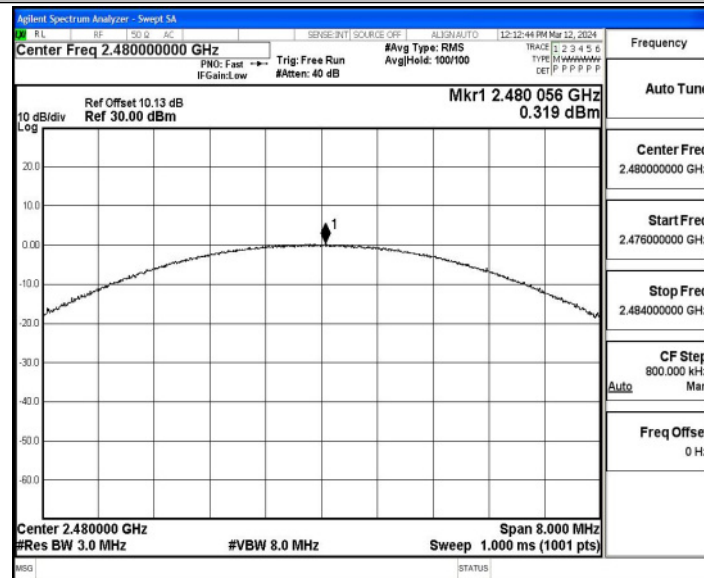
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2DH5_Ant1_2480



3DH5_Ant1_2402

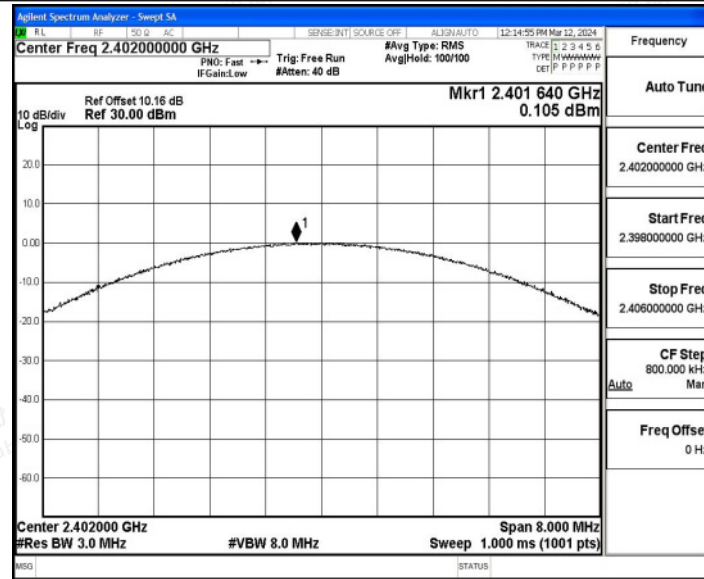


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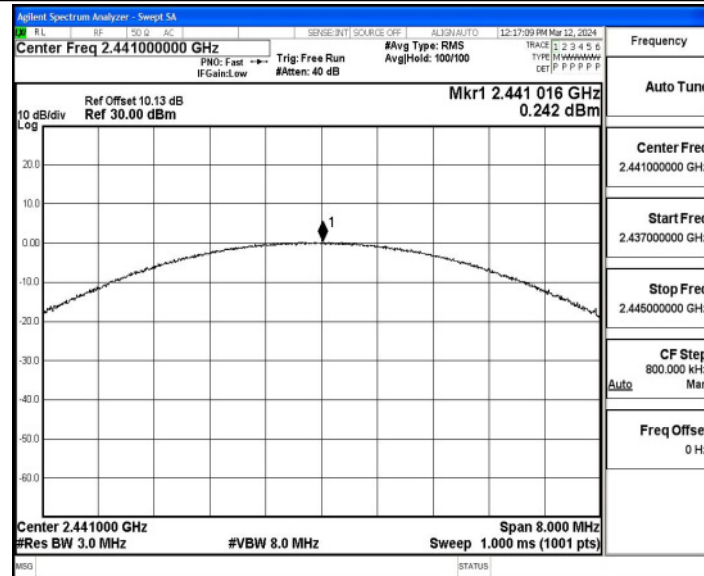
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3DH5_Ant1_2441



3DH5_Ant1_2480

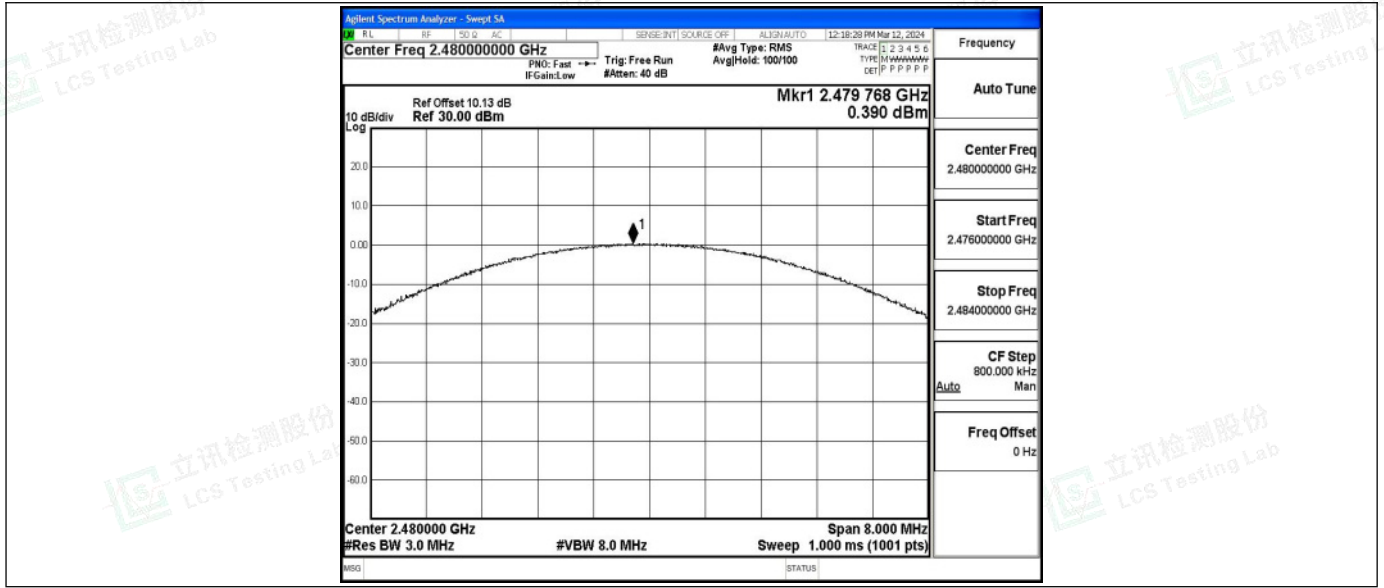


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A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.82	≥ 0.686	PASS
2DH5	Ant1	Hop	1.184	≥ 0.886	PASS
3DH5	Ant1	Hop	1.168	≥ 0.864	PASS



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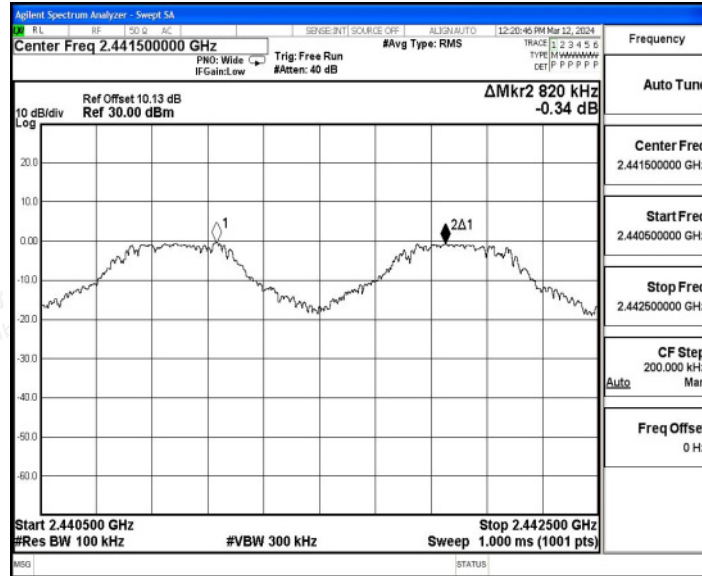
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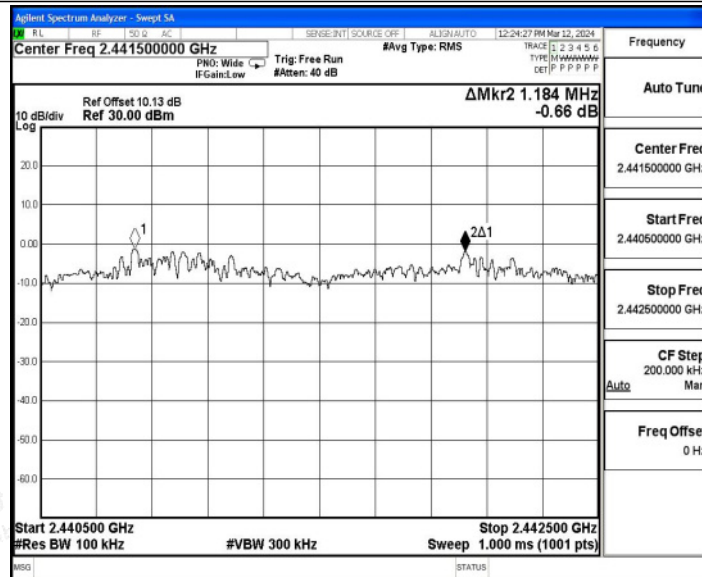


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

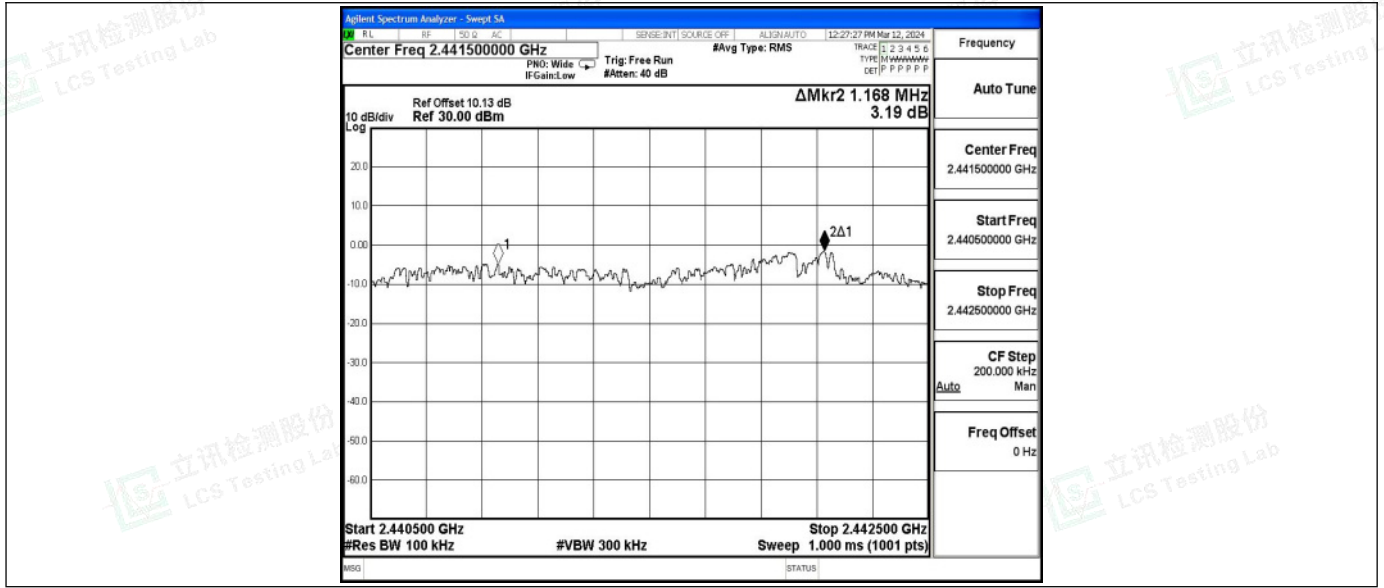


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A.4 Time of occupancy

Test Result

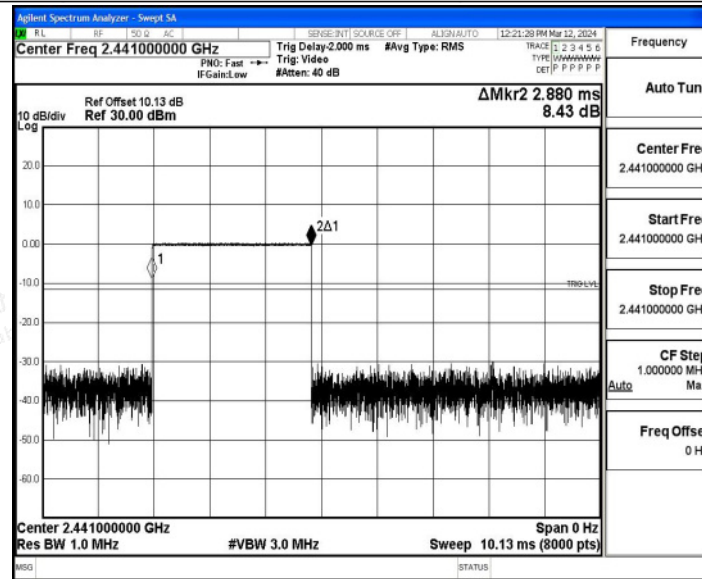
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.883	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.885	106.67	0.308	≤0.4	PASS



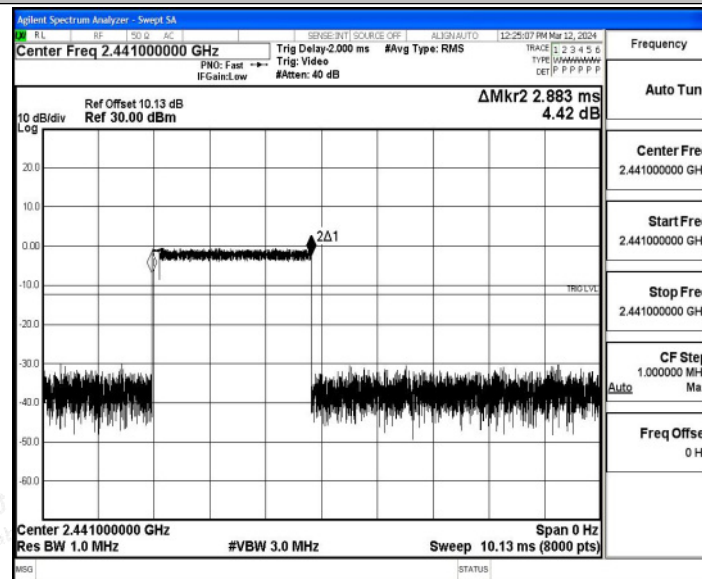


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



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A.5 Number of hopping channels

Test Result

TestMode	Antenna	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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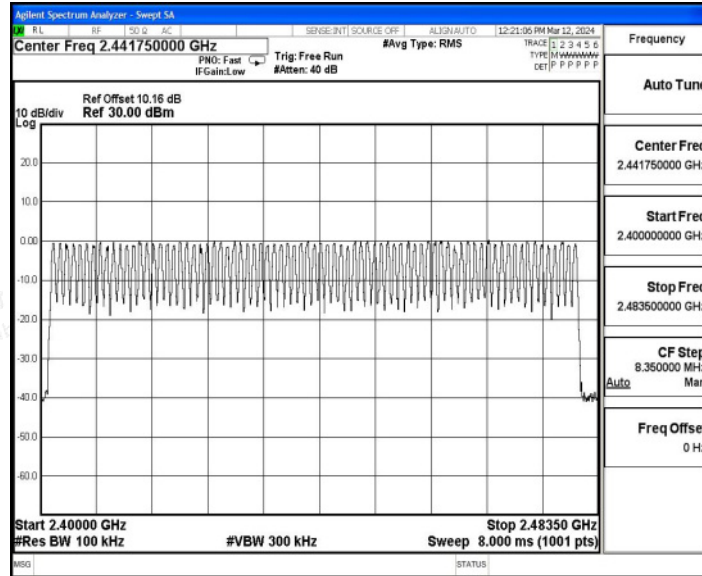
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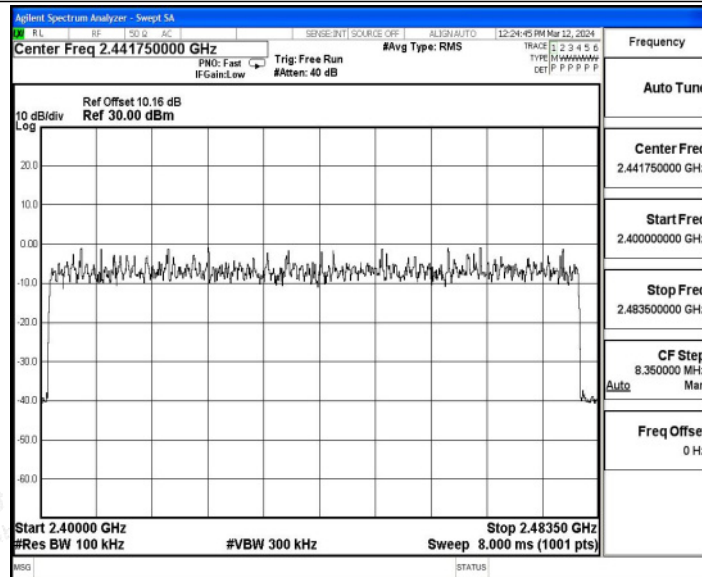


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

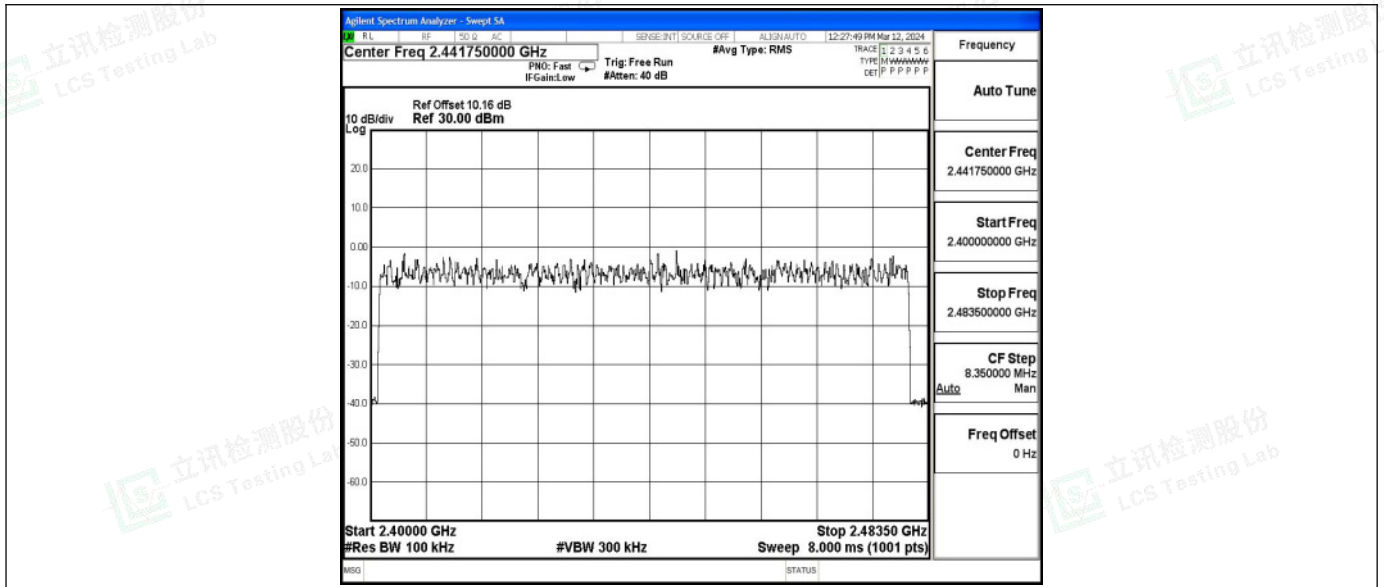


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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.06	-49.62	≤ -20.06	PASS
		High	2480	-0.15	-49.52	≤ -20.15	PASS
		Low	Hop_2402	-0.90	-48.37	≤ -20.9	PASS
		High	Hop_2480	-0.08	-47.59	≤ -20.08	PASS
2DH5	Ant1	Low	2402	-1.74	-48.17	≤ -21.74	PASS
		High	2480	-1.65	-48.21	≤ -21.65	PASS
		Low	Hop_2402	-2.18	-48.04	≤ -22.18	PASS
		High	Hop_2480	-2.48	-47.01	≤ -22.48	PASS
3DH5	Ant1	Low	2402	-1.37	-49.67	≤ -21.37	PASS
		High	2480	-1.05	-49.34	≤ -21.05	PASS
		Low	Hop_2402	-3.06	-48.01	≤ -23.06	PASS
		High	Hop_2480	-2.35	-47.46	≤ -22.35	PASS



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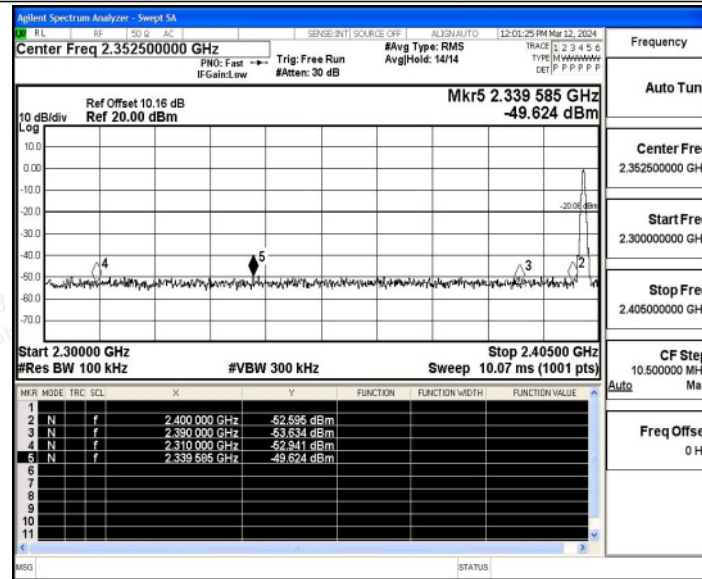
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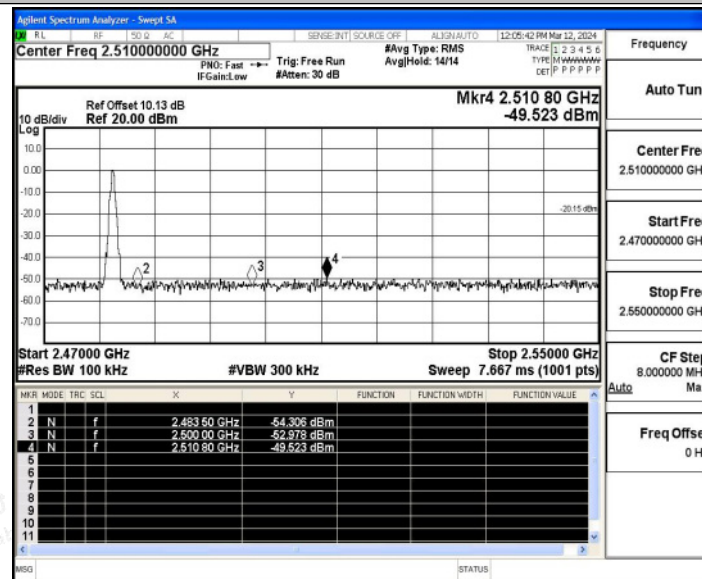


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

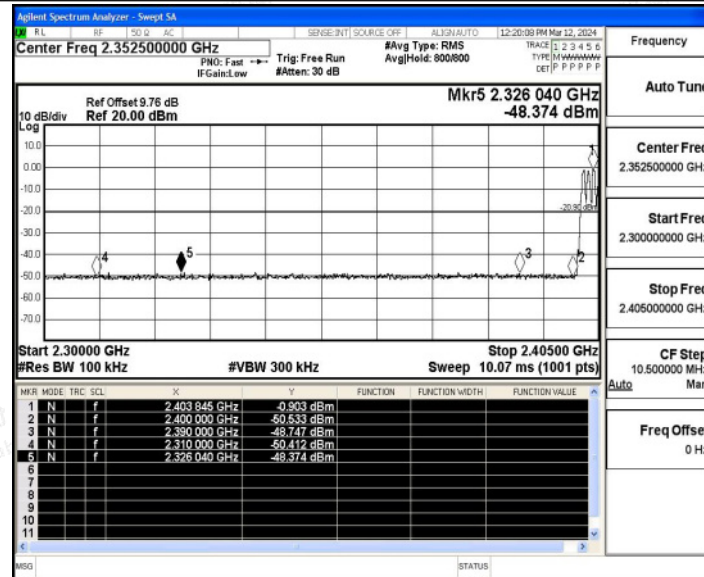


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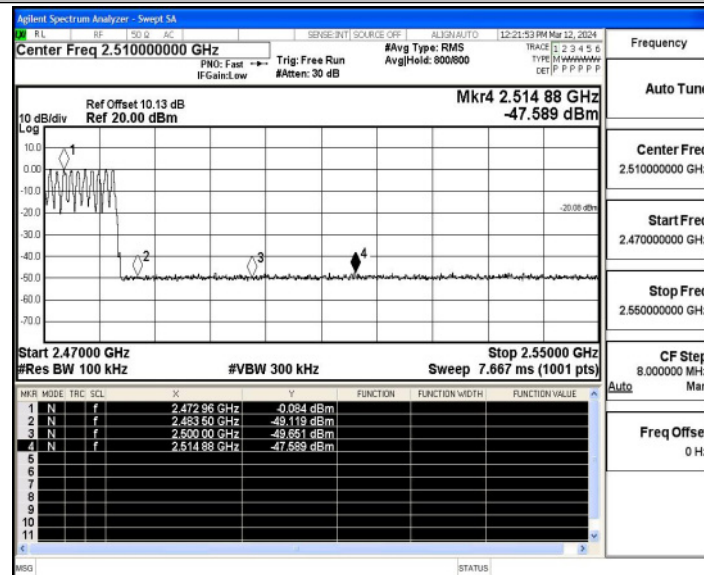
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

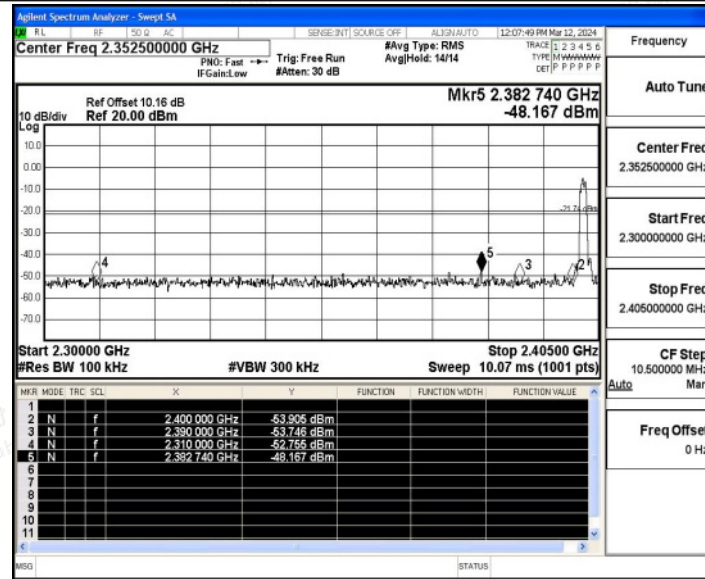


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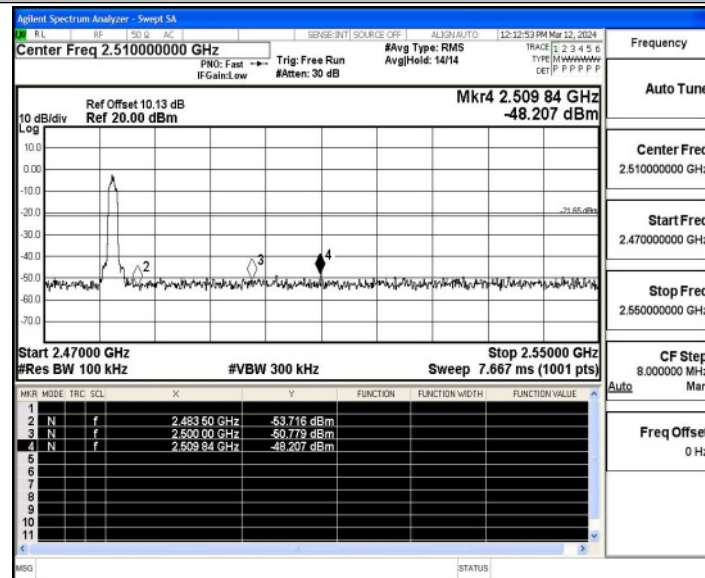
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

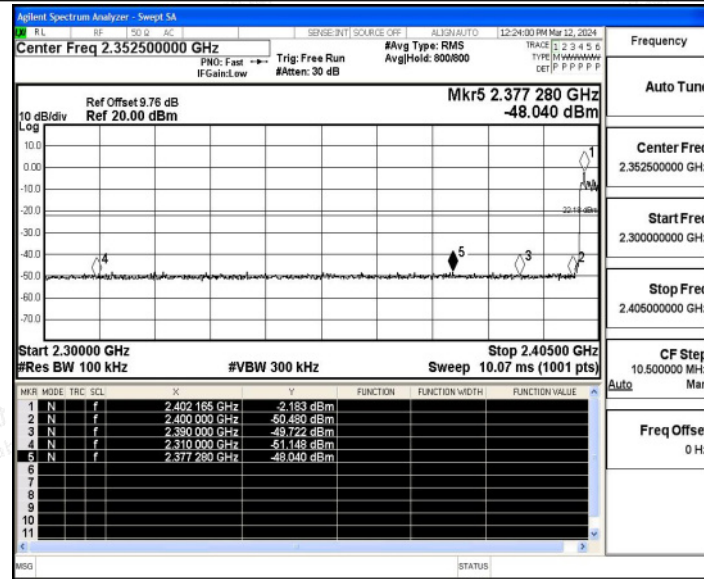


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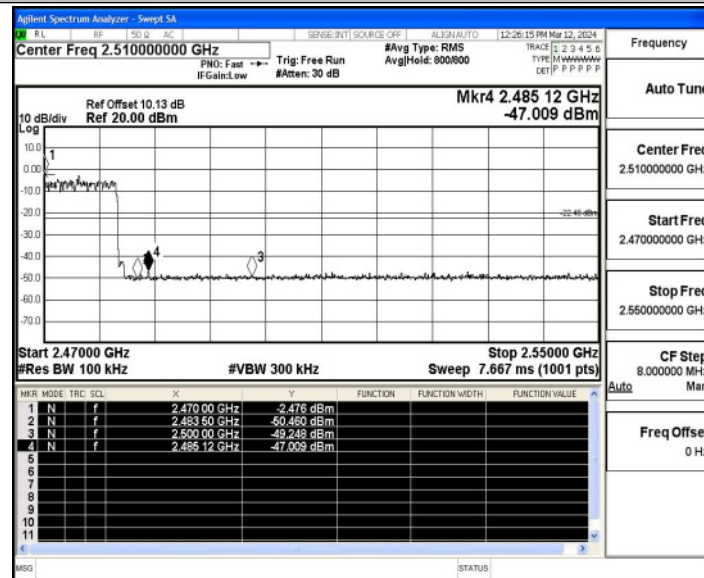
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

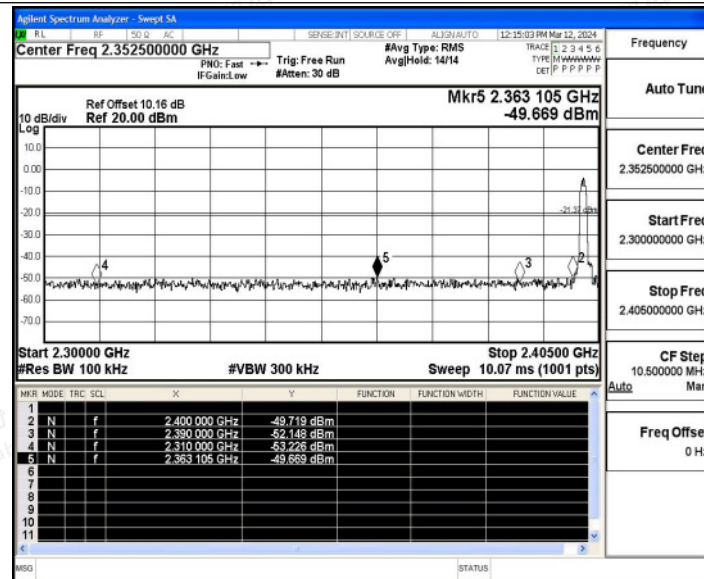


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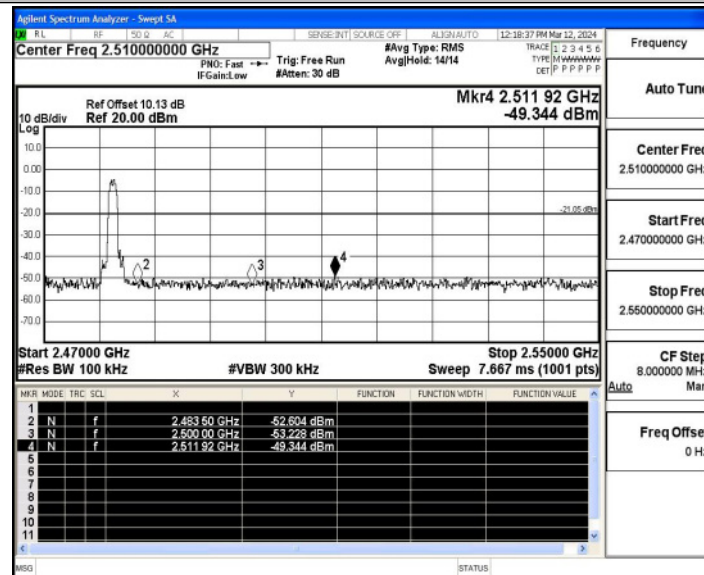
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

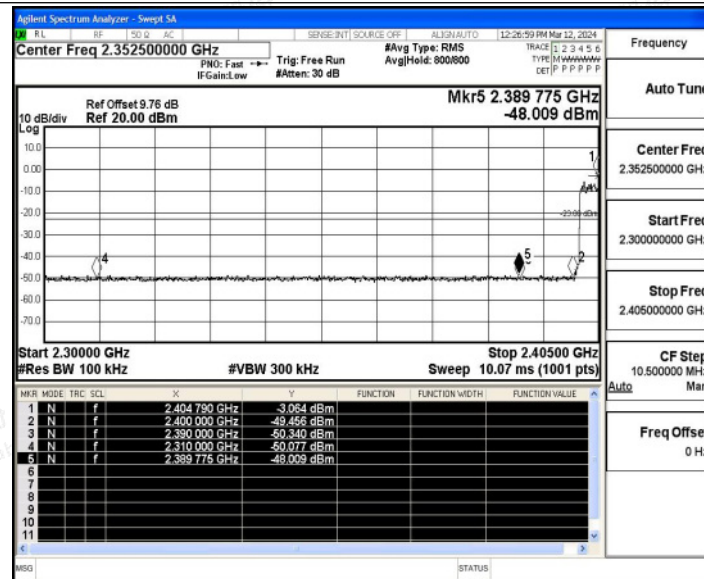


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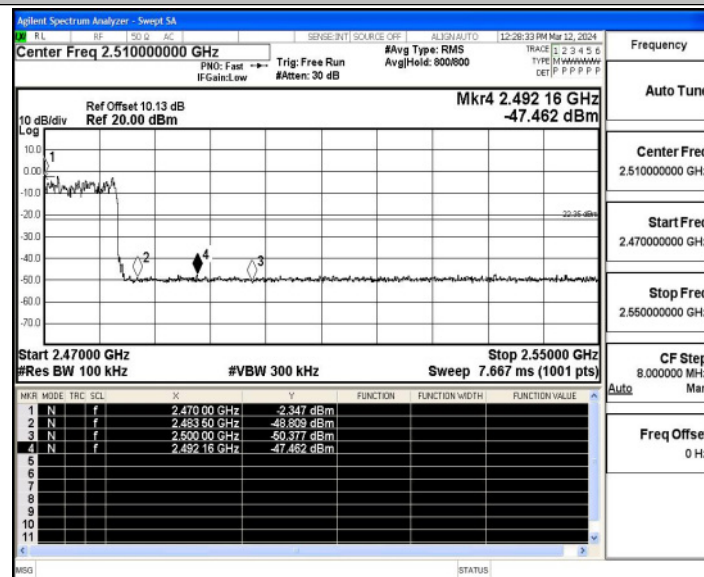
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3DH5_Ant1_High_Hop_2480



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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	-0.06	-59.94	≤-20.06	PASS
			1000~26500	-0.06	-47.03	≤-20.06	PASS
		2441	30~1000	-0.33	-60.21	≤-20.33	PASS
			1000~26500	-0.33	-47	≤-20.33	PASS
		2480	30~1000	-0.15	-59.7	≤-20.15	PASS
			1000~26500	-0.15	-47.24	≤-20.15	PASS
2DH5	Ant1	2402	30~1000	-1.74	-60.23	≤-21.74	PASS
			1000~26500	-1.74	-46.98	≤-21.74	PASS
		2441	30~1000	-1.39	-59.19	≤-21.39	PASS
			1000~26500	-1.39	-47.23	≤-21.39	PASS
		2480	30~1000	-1.65	-59.3	≤-21.65	PASS
			1000~26500	-1.65	-47.38	≤-21.65	PASS
3DH5	Ant1	2402	30~1000	-1.37	-59.24	≤-21.37	PASS
			1000~26500	-1.37	-46.98	≤-21.37	PASS
		2441	30~1000	-1.31	-59.7	≤-21.31	PASS
			1000~26500	-1.31	-47.44	≤-21.31	PASS
		2480	30~1000	-1.05	-59.36	≤-21.05	PASS
			1000~26500	-1.05	-47.54	≤-21.05	PASS



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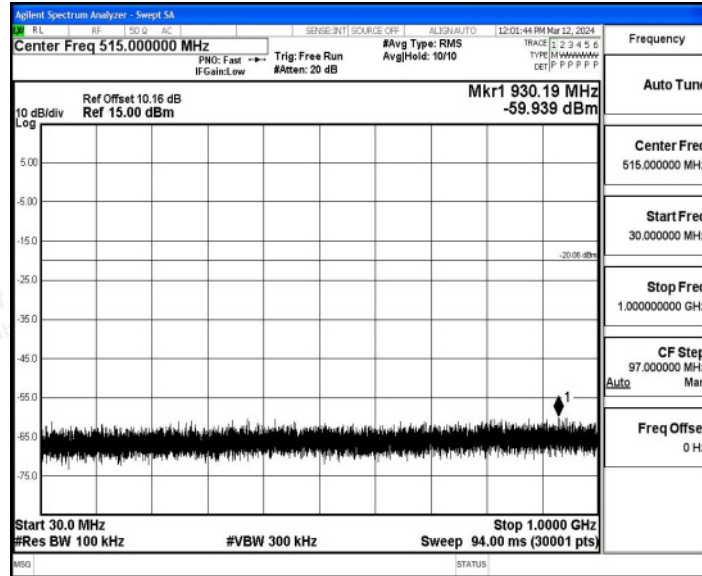
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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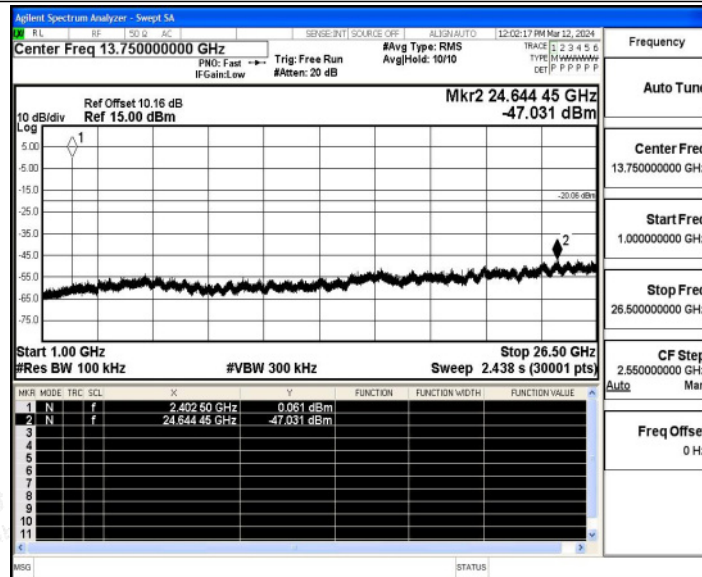


Test Graphs

DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_30~1000

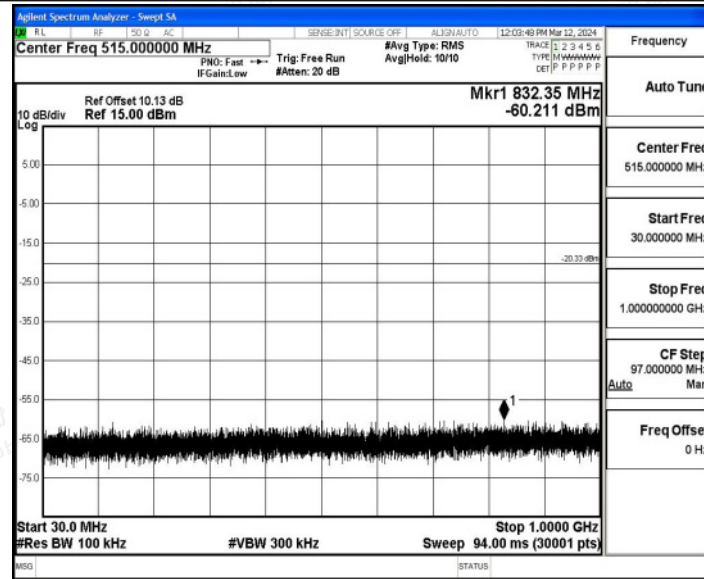


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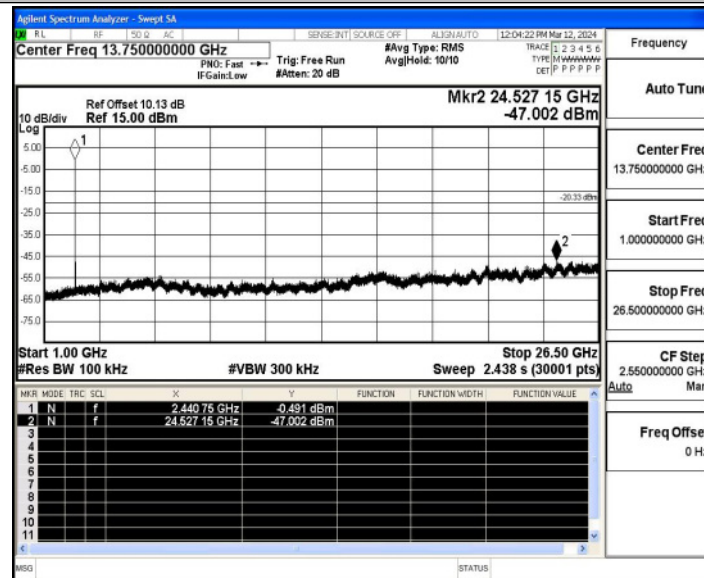
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_30~1000

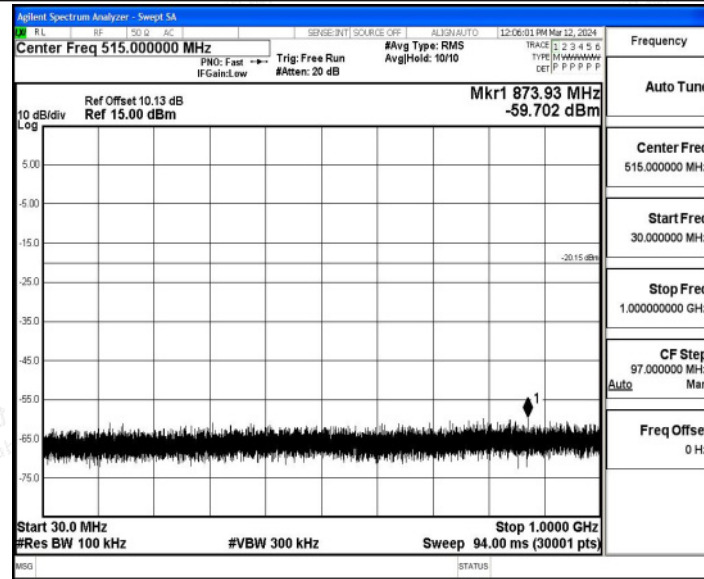


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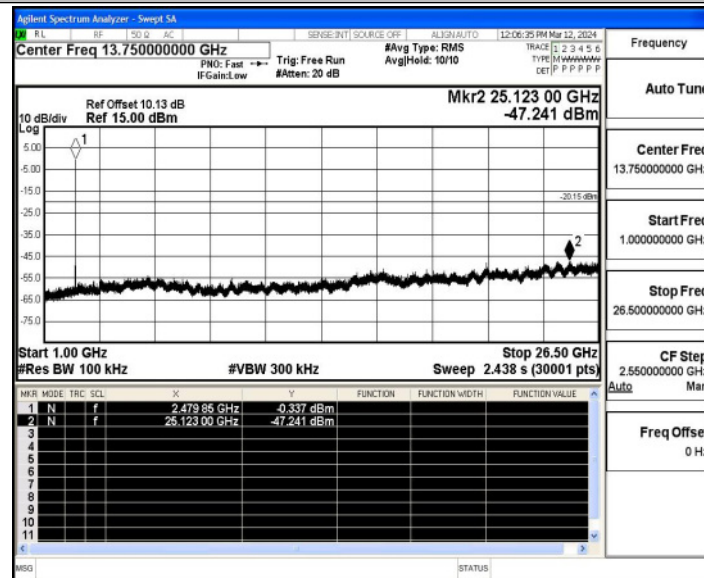
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_30~1000

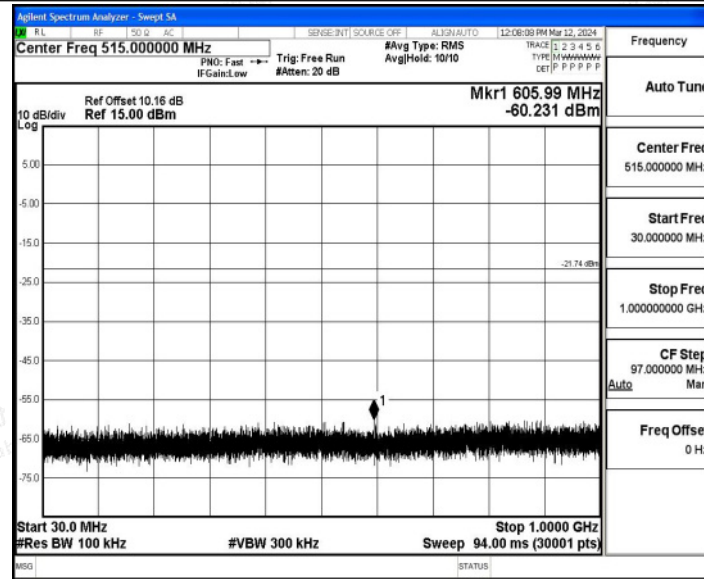


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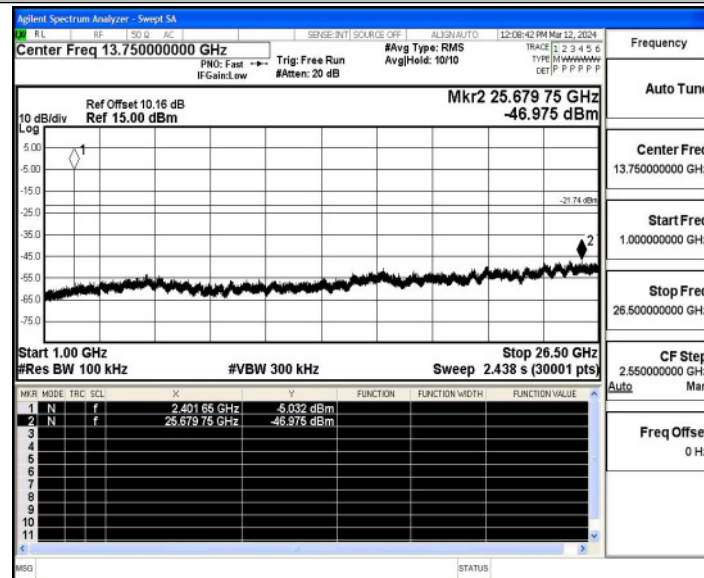
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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_30~1000

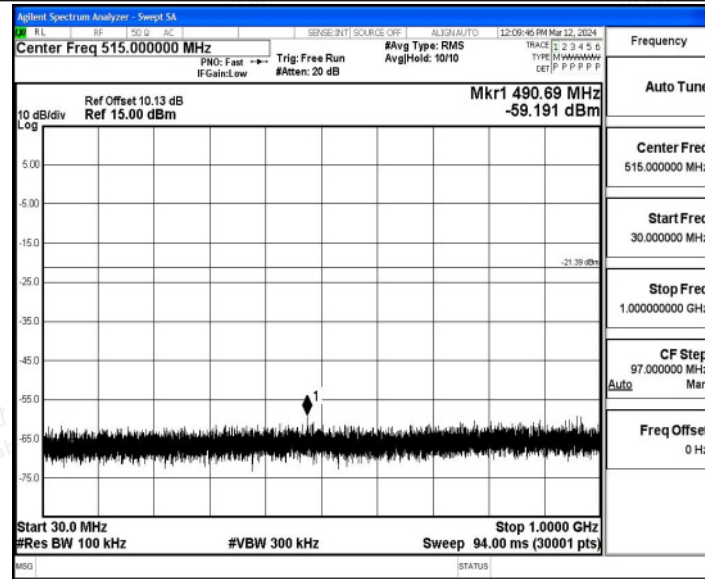


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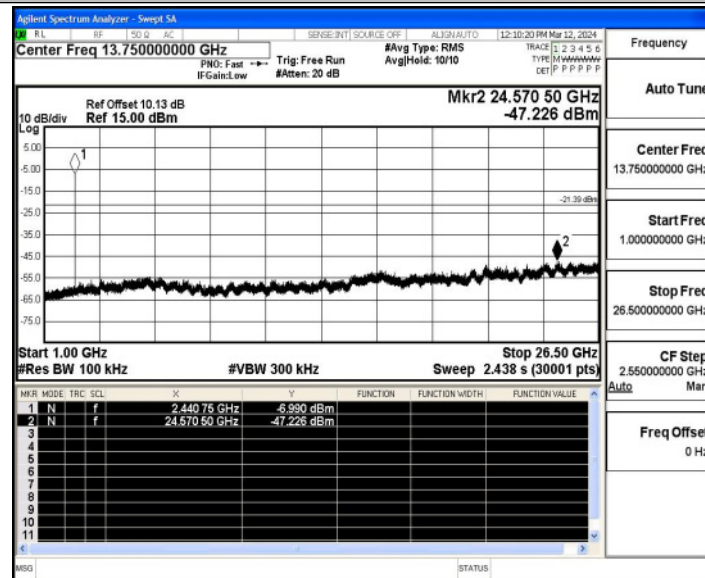
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2DH5_Ant1_2441_1000~26500



2DH5_Ant1_2480_30~1000



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