



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: HOME THEATER PROJECTOR

Test Model: B-110

Environmental Conditions

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



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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	1.008	2401.484	2402.492	---
		2441	0.963	2440.532	2441.495	---
		2480	0.963	2479.544	2480.507	---
2DH5	Ant1	2402	1.356	2401.325	2402.681	---
		2441	1.317	2440.346	2441.663	---
		2480	1.311	2479.346	2480.657	---
3DH5	Ant1	2402	1.305	2401.346	2402.651	---
		2441	1.314	2440.343	2441.657	---
		2480	1.311	2479.346	2480.657	---



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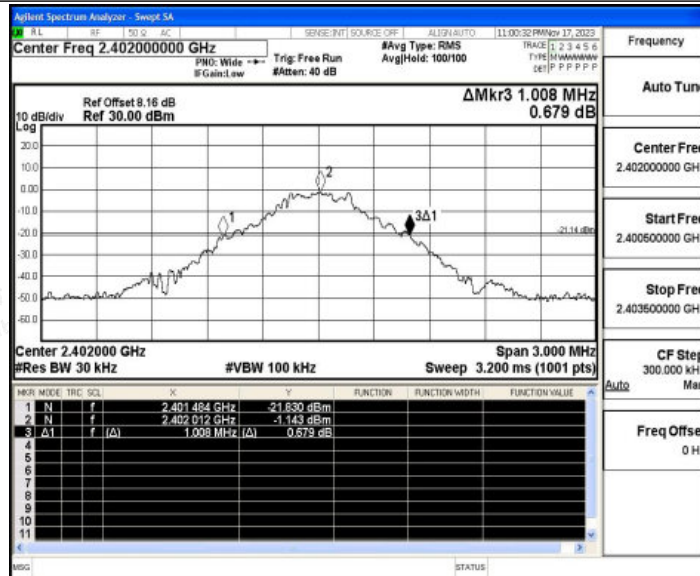
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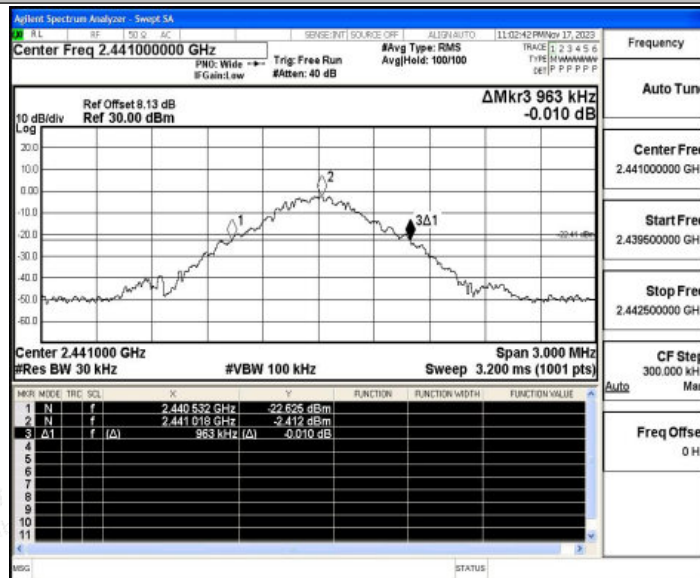


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

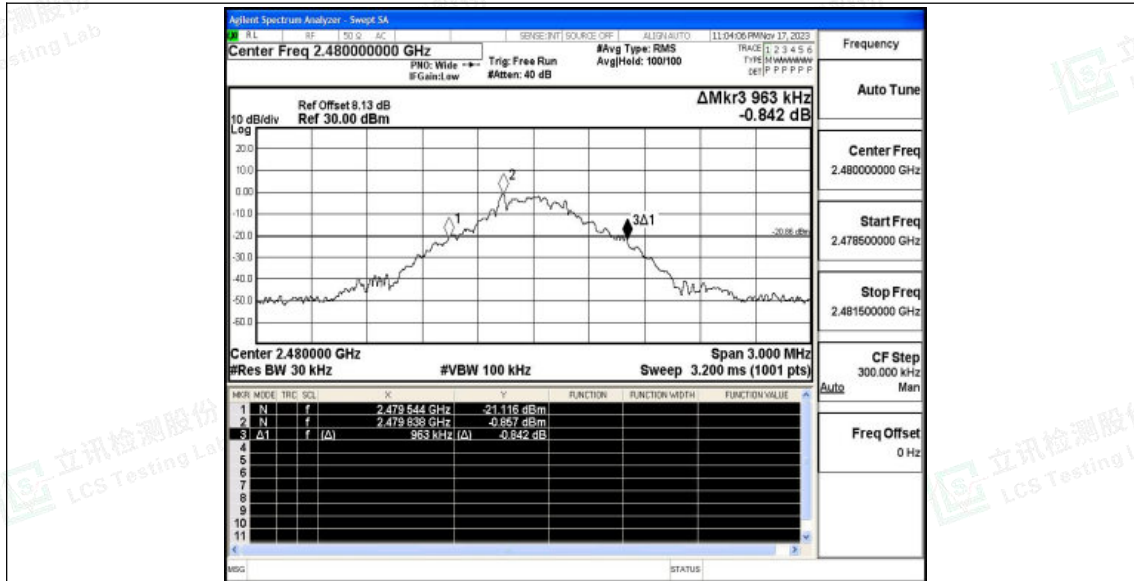


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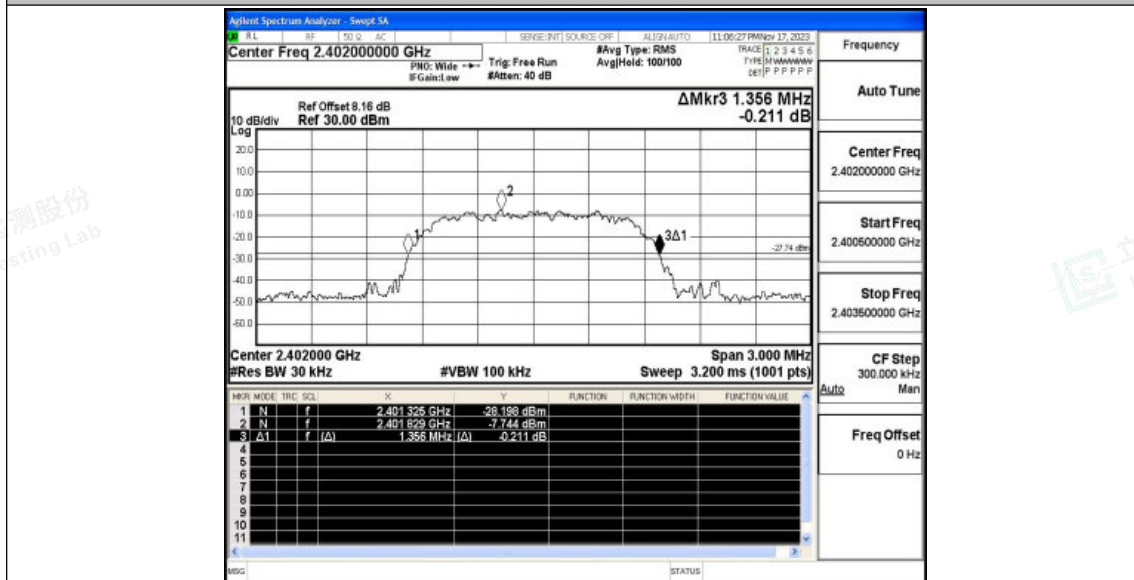
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2DH5_Ant1_2402



2DH5_Ant1_2441

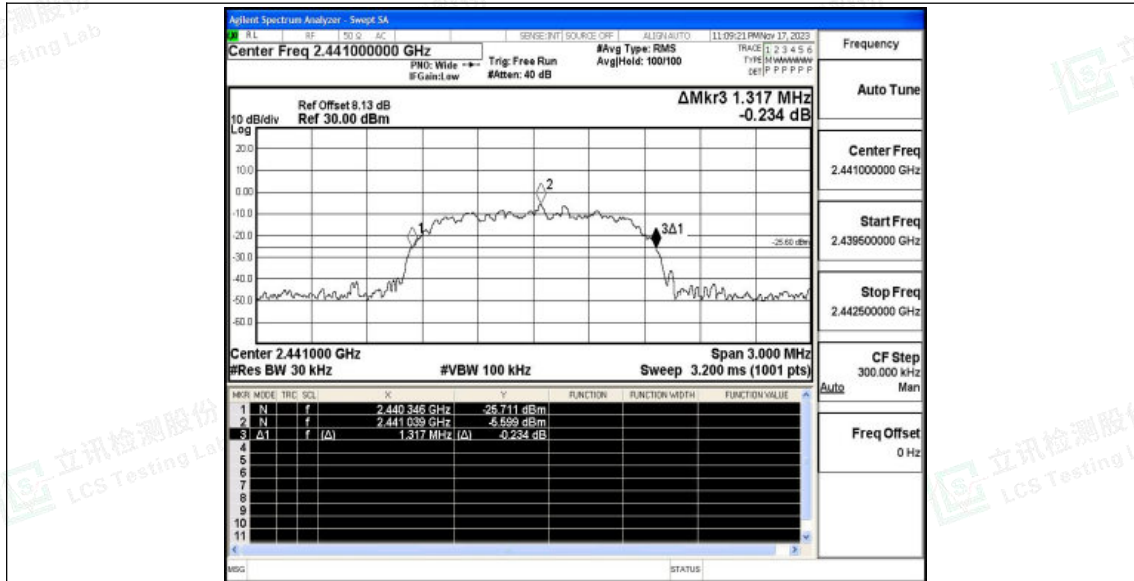


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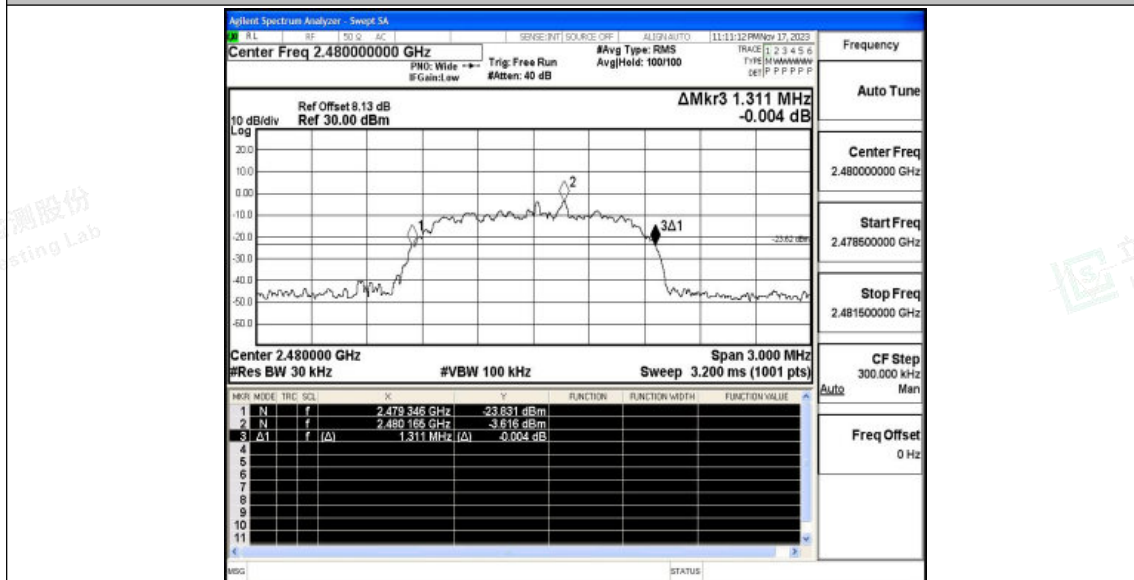
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2DH5_Ant1_2480



3DH5_Ant1_2402

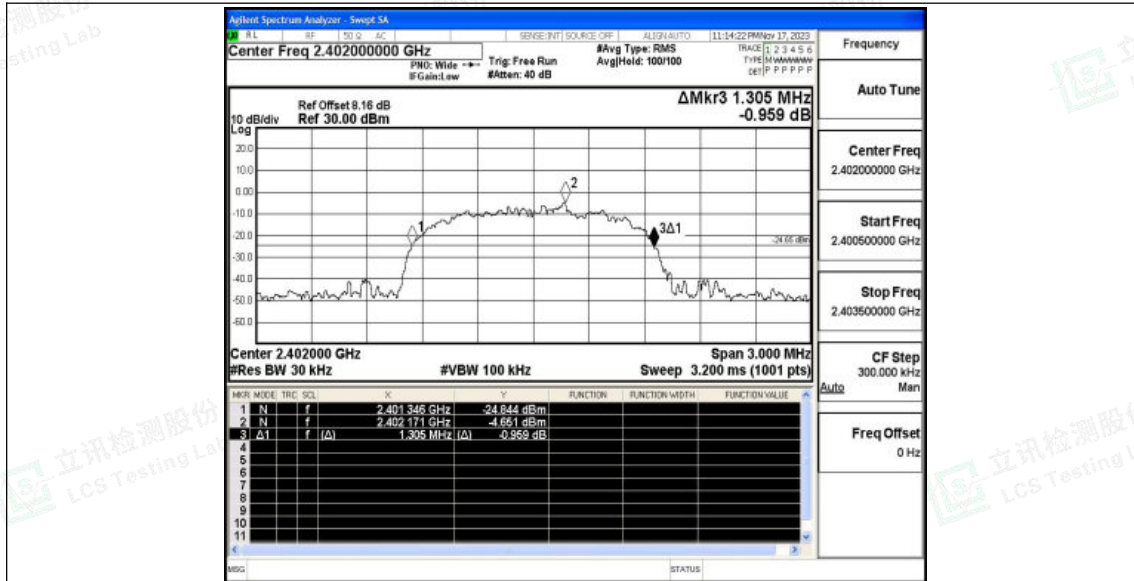


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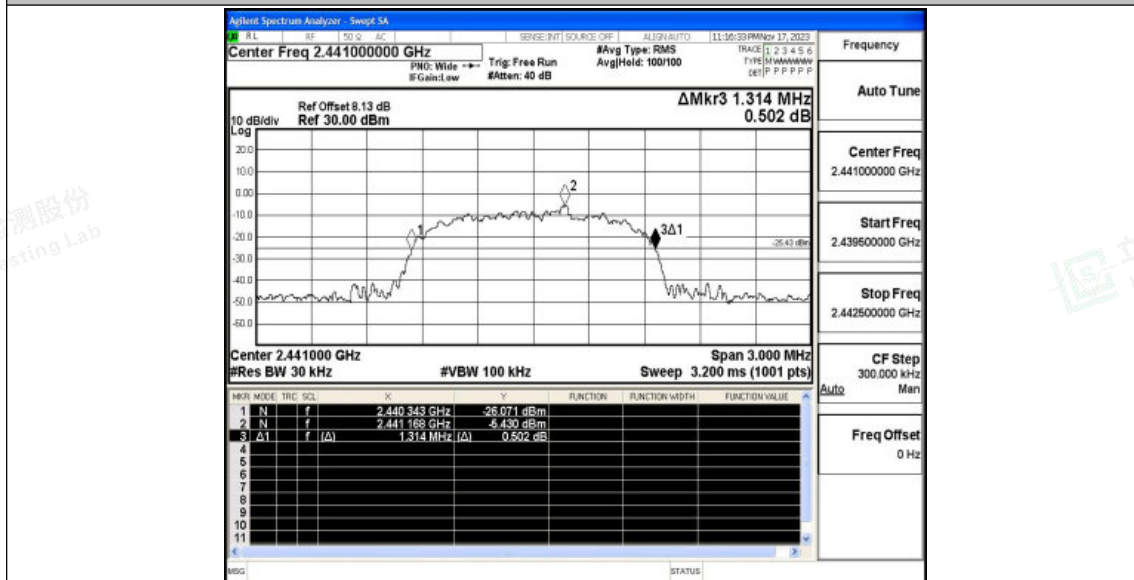
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3DH5_Ant1_2441



3DH5_Ant1_2480

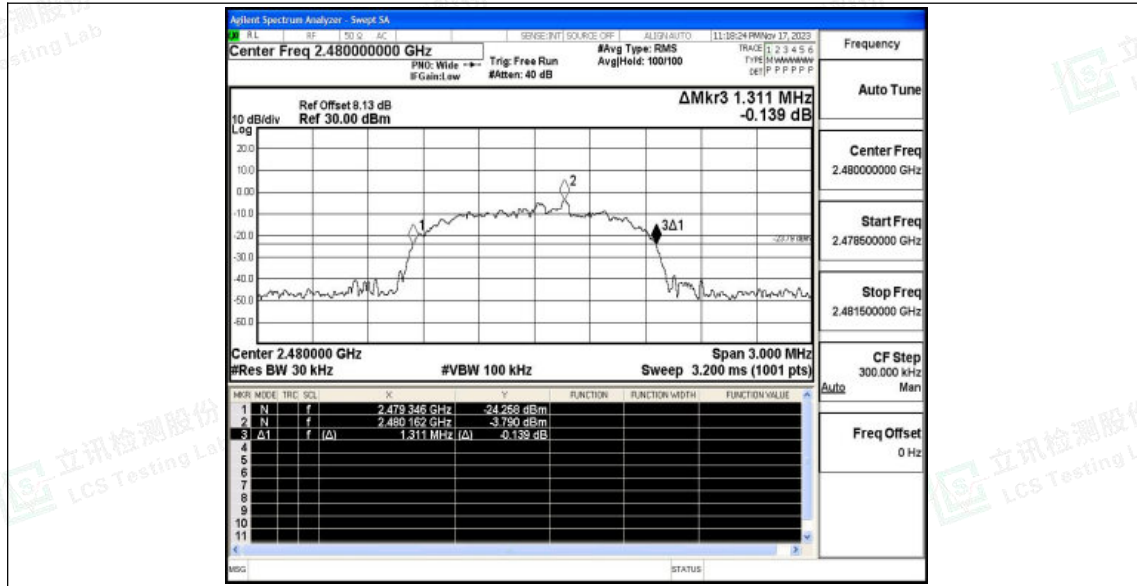


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A.2 Maximum Peak Conducted Output Power

Test Result

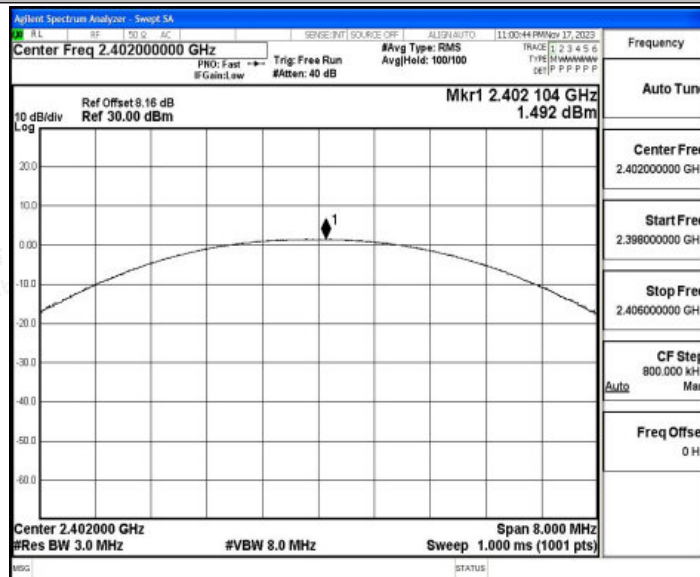
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.49	≤21	PASS
		2441	0.64	≤21	PASS
		2480	0.7	≤21	PASS
2DH5	Ant1	2402	1.49	≤21	PASS
		2441	0.61	≤21	PASS
		2480	1.25	≤21	PASS
3DH5	Ant1	2402	1.72	≤21	PASS
		2441	0.92	≤21	PASS
		2480	1.56	≤21	PASS



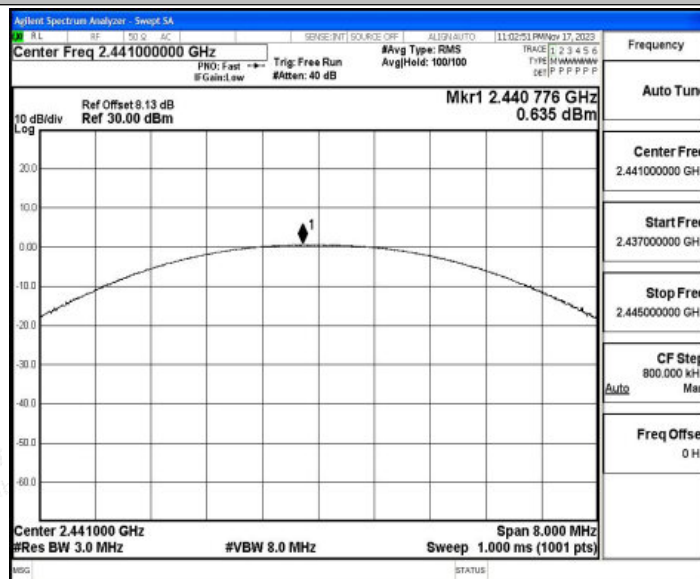


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



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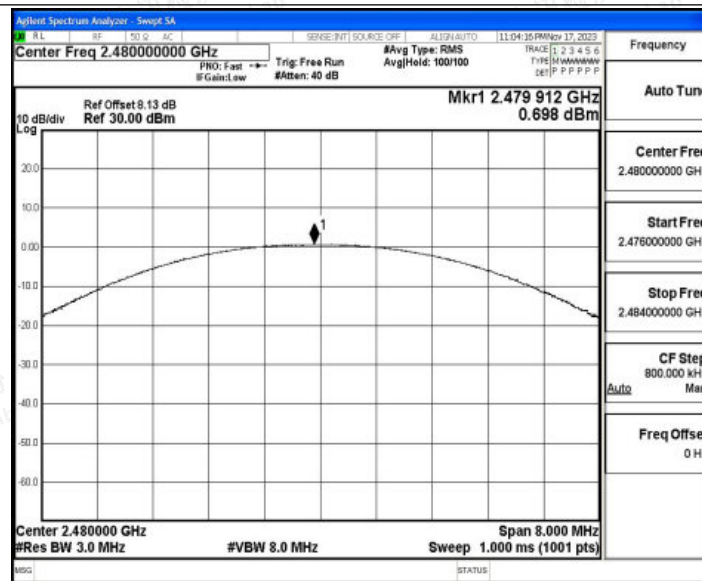
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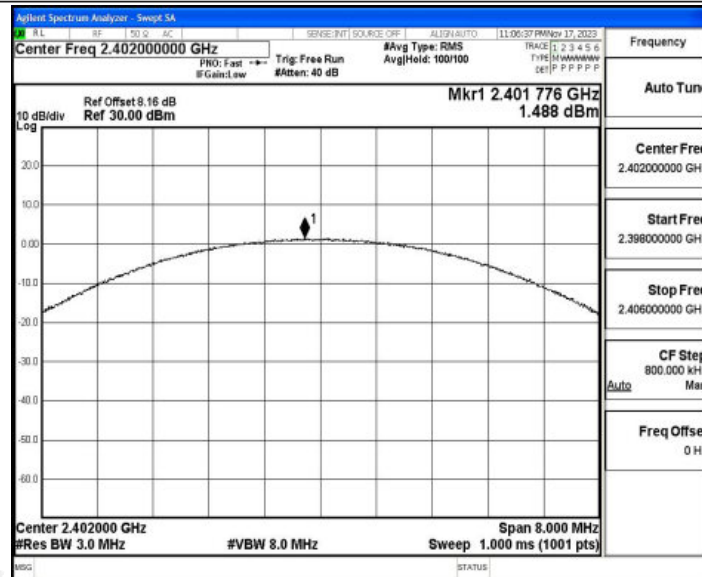
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2DH5_Ant1_2402



2DH5_Ant1_2441



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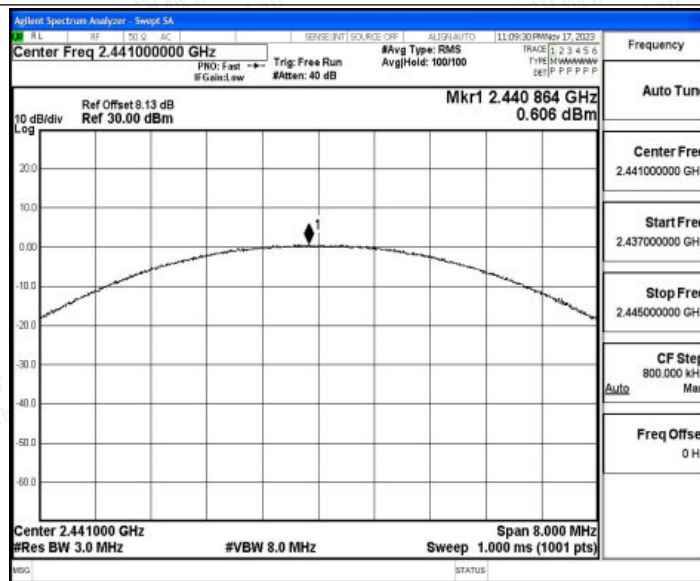
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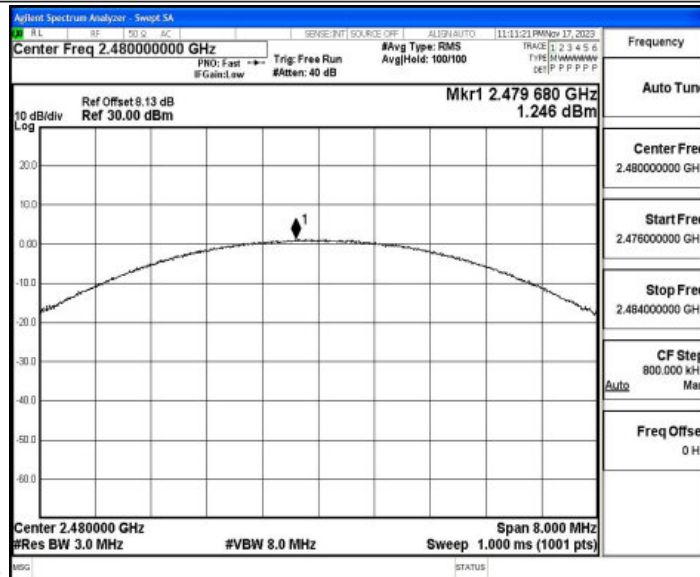
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2DH5_Ant1_2480



3DH5_Ant1_2402



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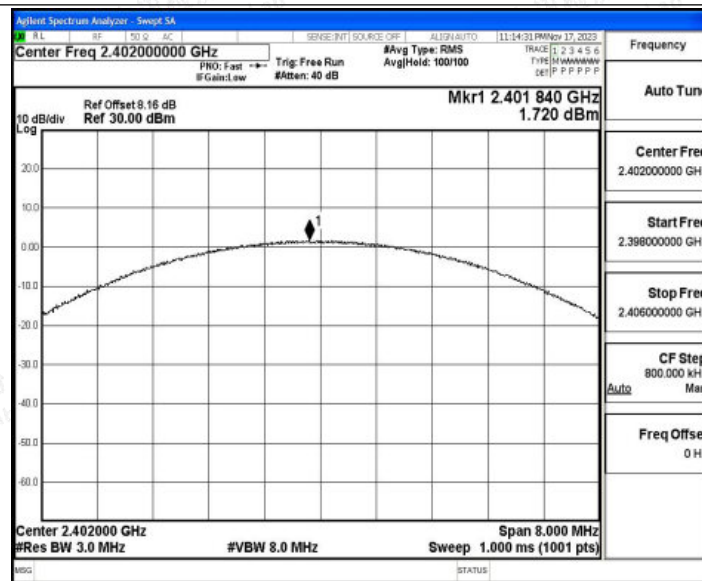
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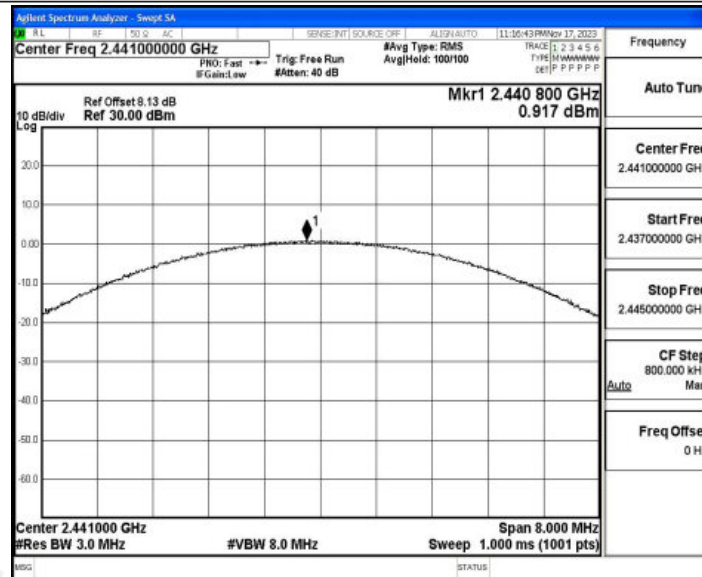
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3DH5_Ant1_2441



3DH5_Ant1_2480



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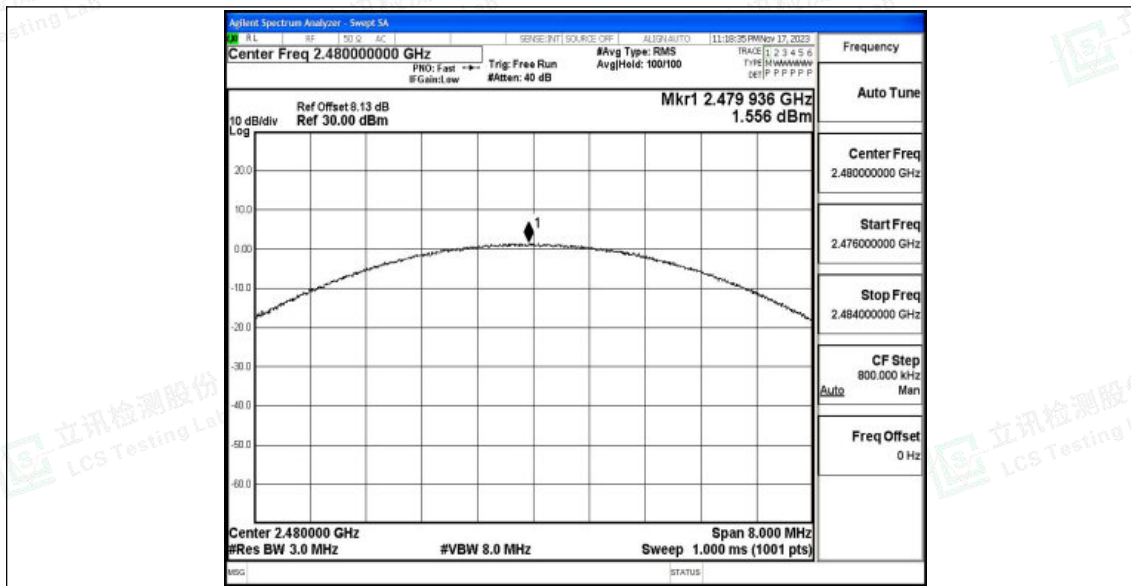
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A.3 Carrier frequency separation

Test Result

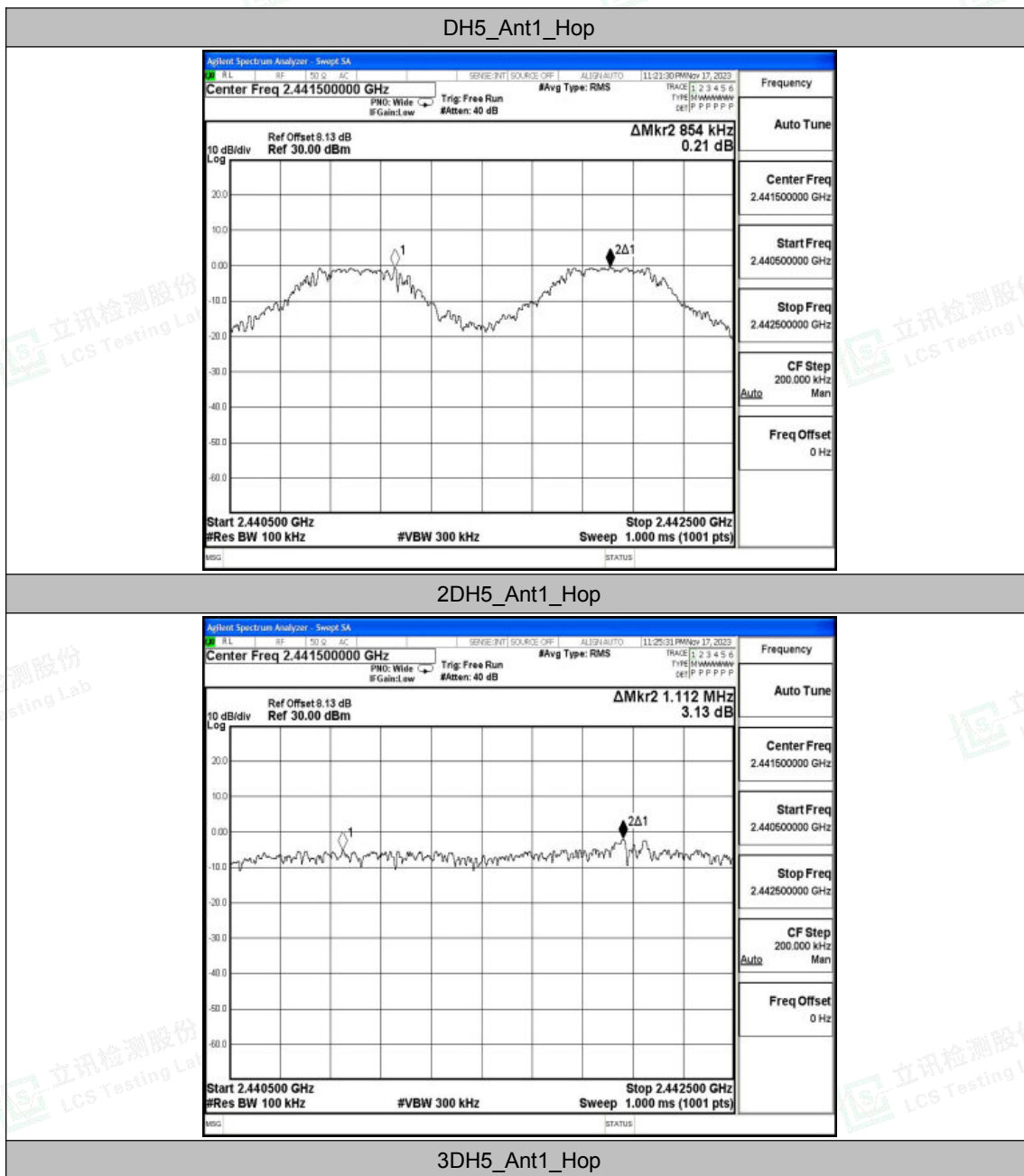
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.854	≥ 0.672	PASS
2DH5	Ant1	Hop	1.112	≥ 0.904	PASS
3DH5	Ant1	Hop	0.936	≥ 0.876	PASS





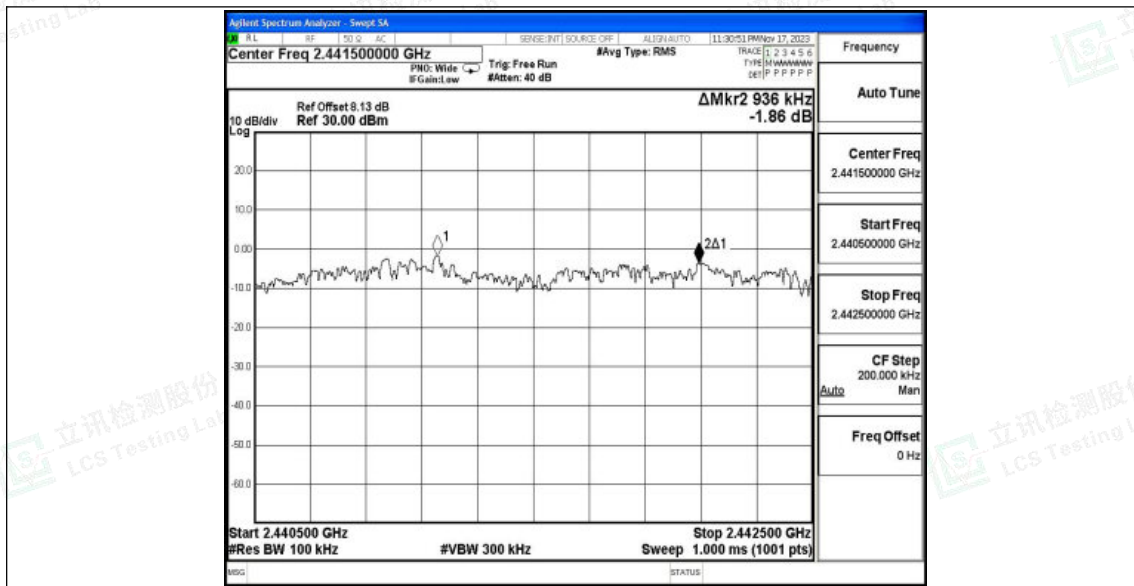
LC SA 2403040EA

Test Graphs





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A.4 Time of occupancy

Test Result

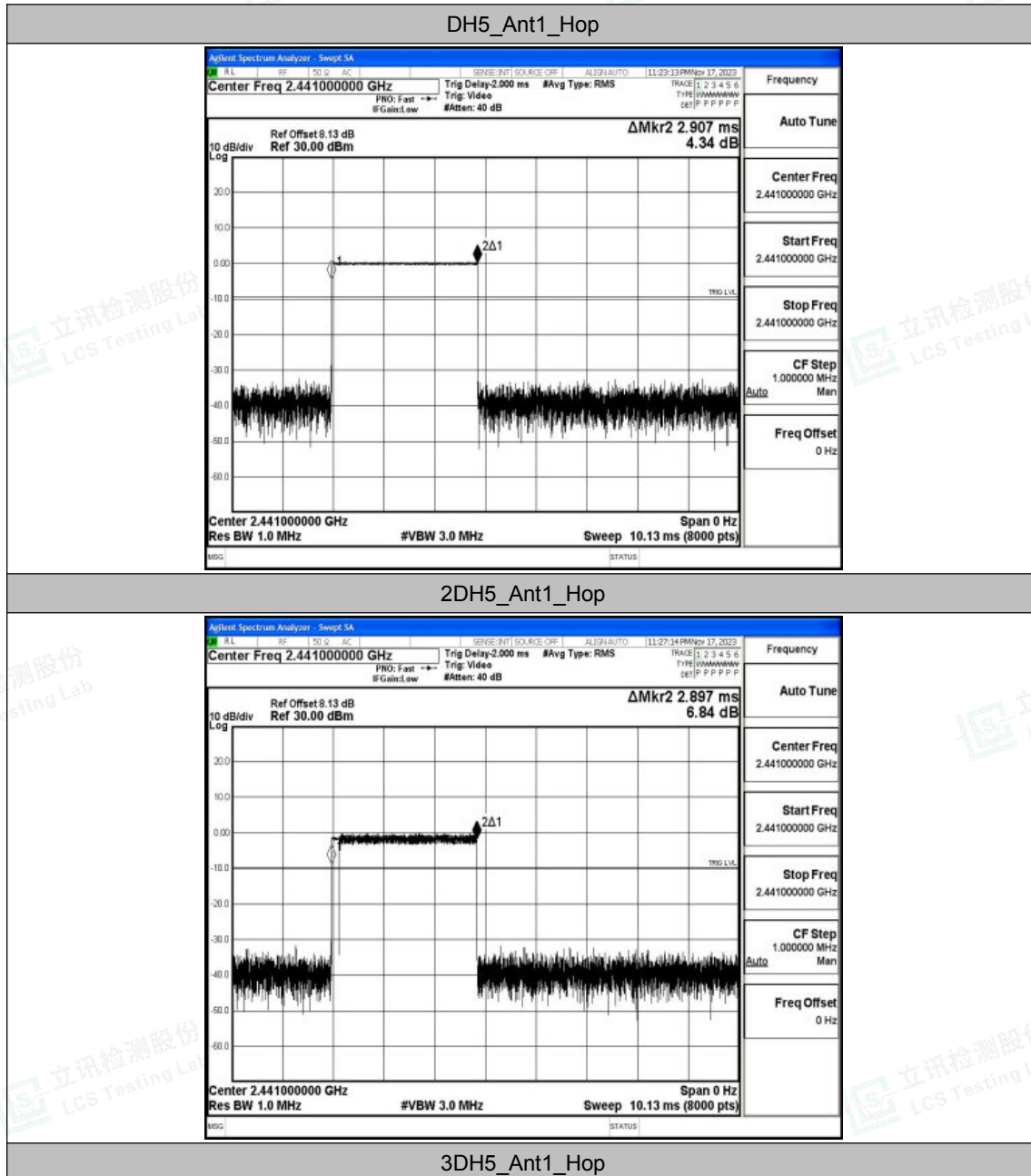
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.907	106.67	0.31	≤0.4	PASS
2DH5	Ant1	Hop	2.897	106.67	0.309	≤0.4	PASS
3DH5	Ant1	Hop	2.896	106.67	0.309	≤0.4	PASS





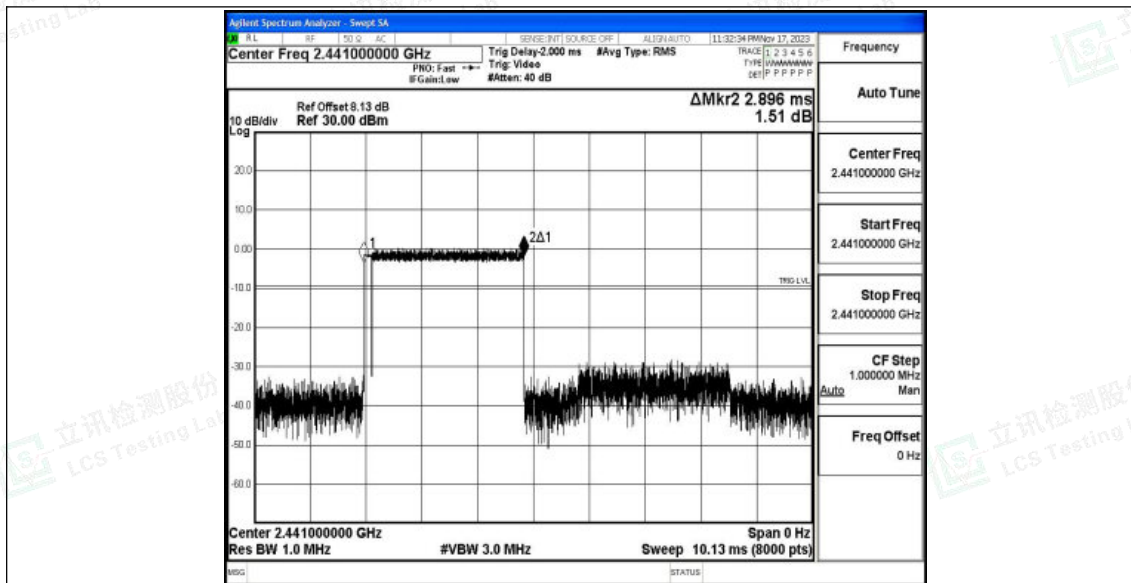
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Test Graphs





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A.5 Number of hopping channels

Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS





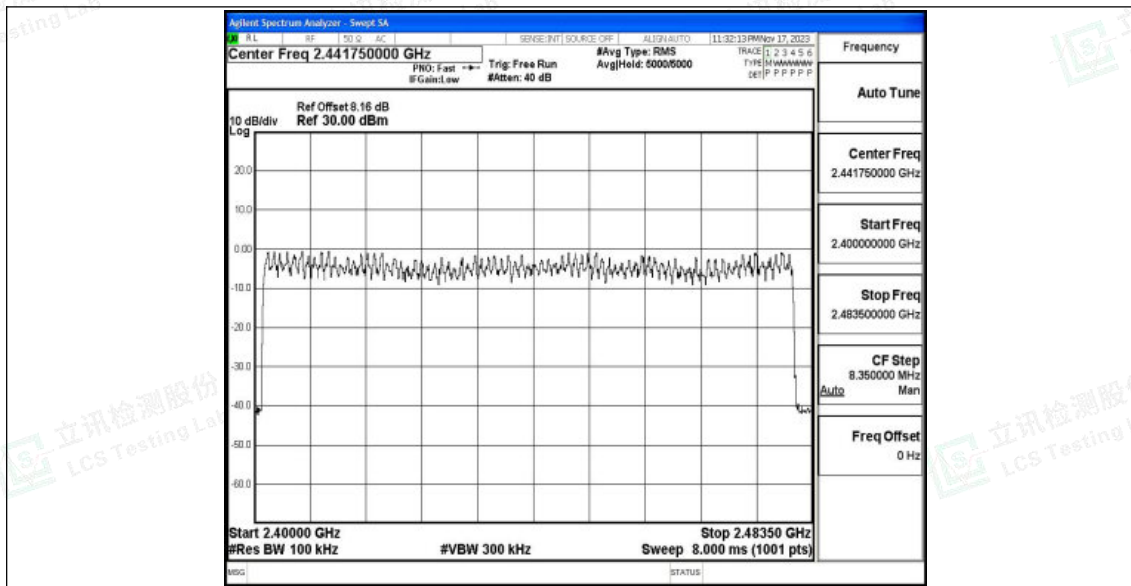
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Test Graphs





LC-SA-M403040EA





A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.83	-51.14	≤ -19.17	PASS
		High	2480	0.03	-51.06	≤ -19.97	PASS
		Low	Hop_2402	0.23	-50.38	≤ -19.77	PASS
		High	Hop_2480	0.08	-48.74	≤ -19.92	PASS
2DH5	Ant1	Low	2402	-3.79	-50.15	≤ -23.79	PASS
		High	2480	-4.77	-50.95	≤ -24.77	PASS
		Low	Hop_2402	-3.61	-50.63	≤ -23.61	PASS
		High	Hop_2480	-1.63	-49.62	≤ -21.63	PASS
3DH5	Ant1	Low	2402	-3.14	-50.7	≤ -23.14	PASS
		High	2480	-3.89	-50.96	≤ -23.89	PASS
		Low	Hop_2402	-2.72	-49.95	≤ -22.72	PASS
		High	Hop_2480	-1.05	-49.5	≤ -21.05	PASS



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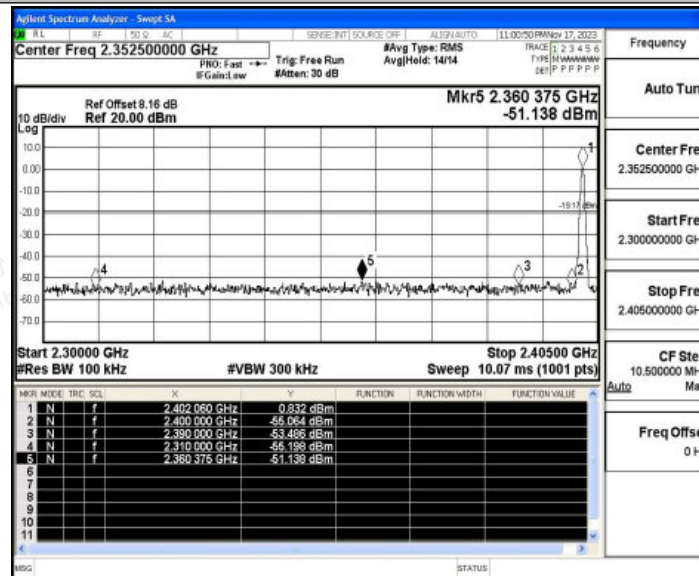
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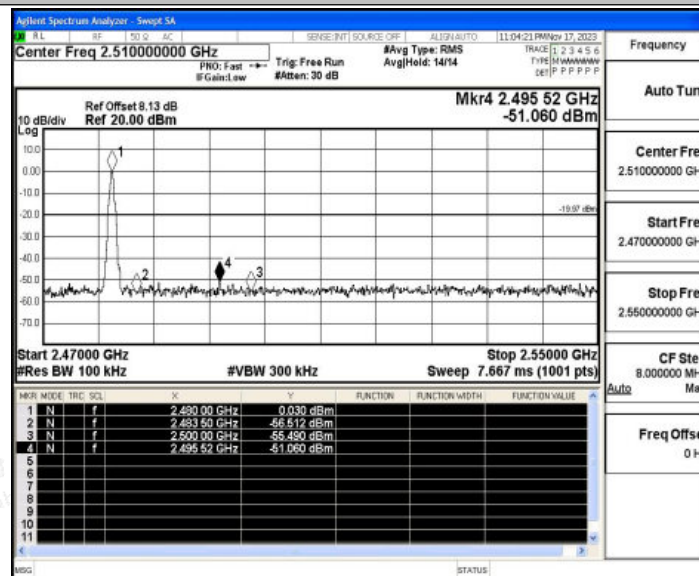
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Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402



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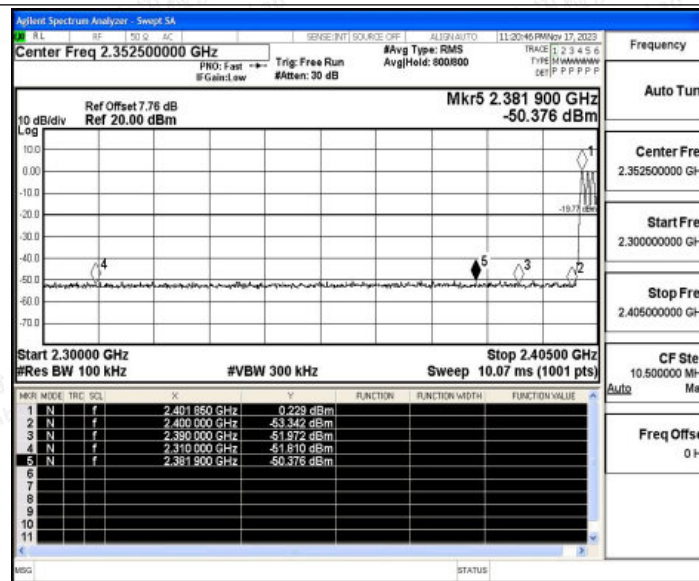
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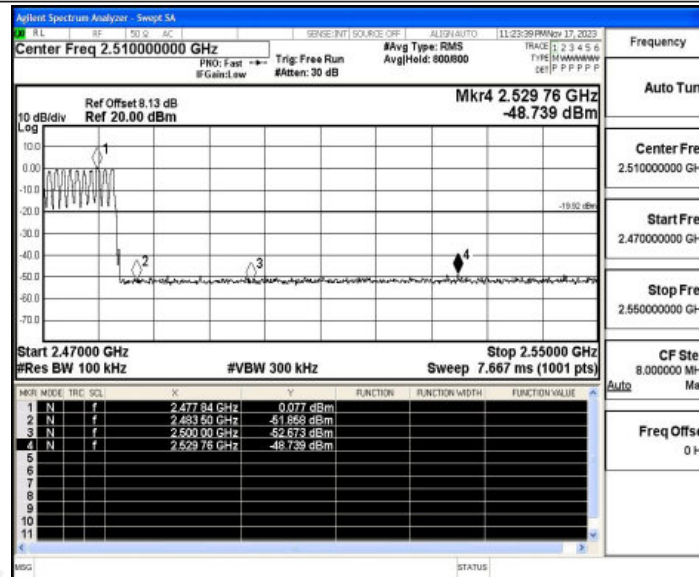
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402



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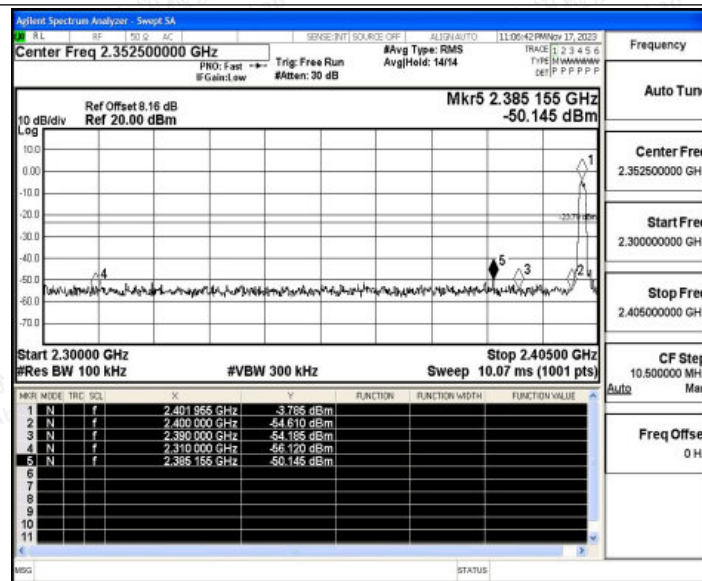
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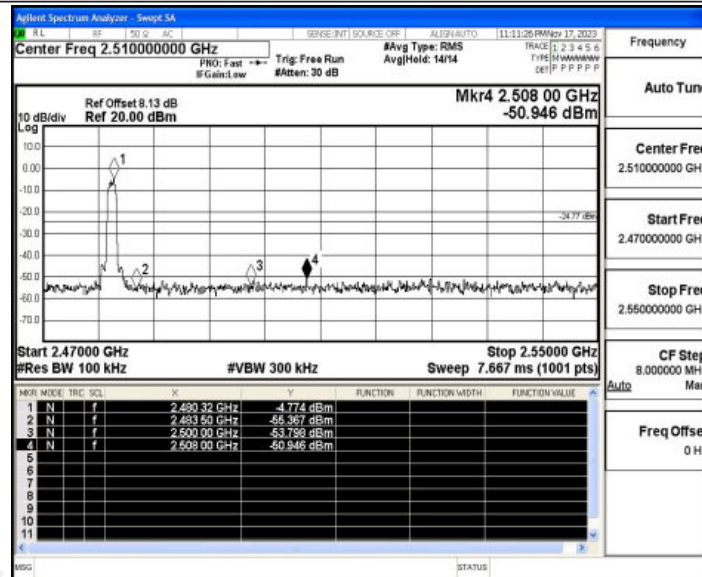
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



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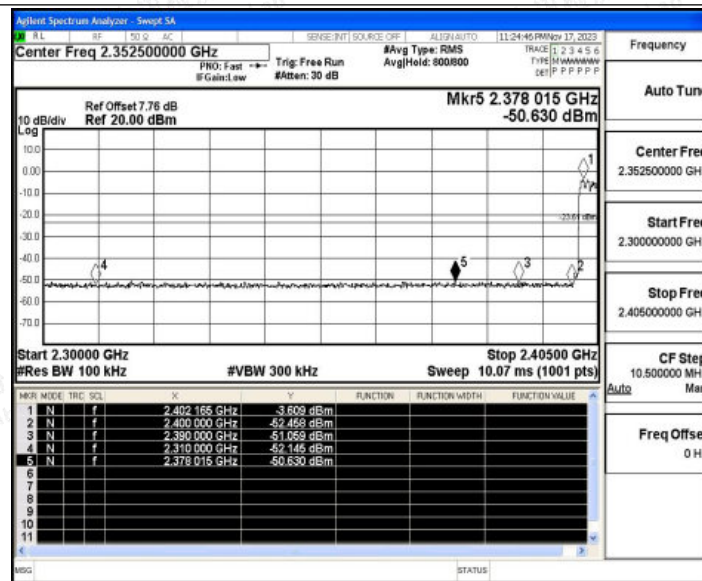
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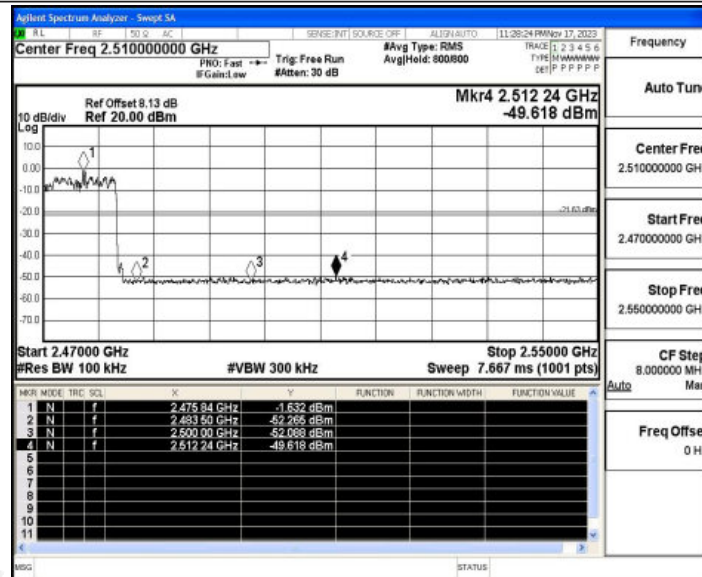
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402



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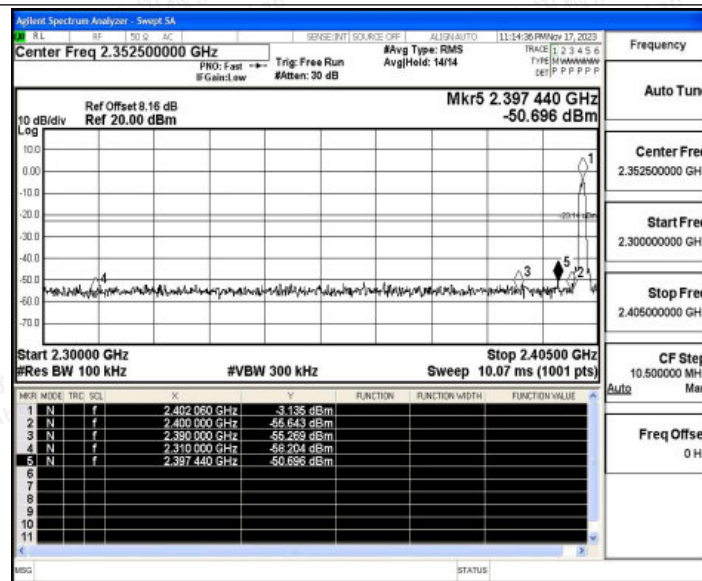
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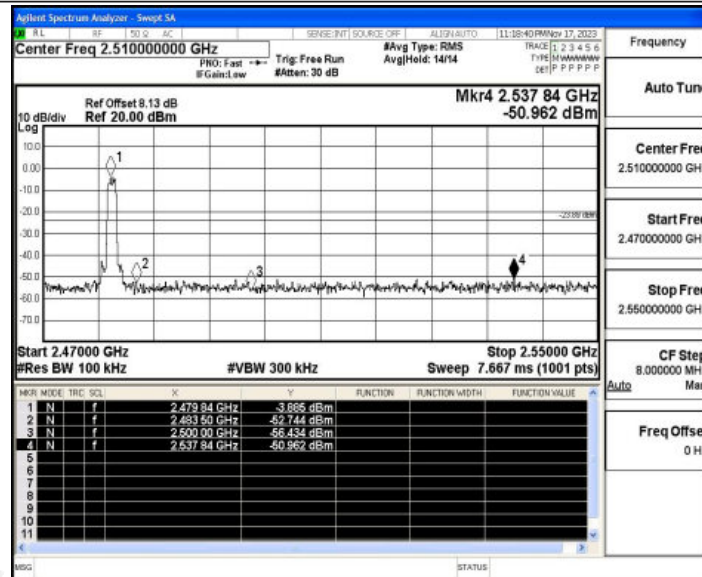
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



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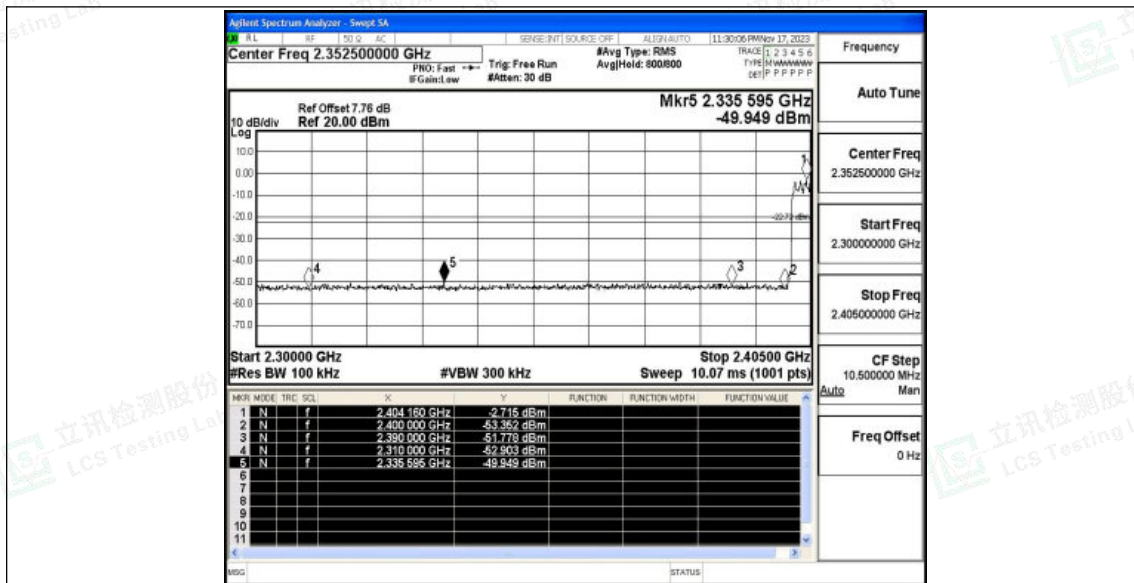
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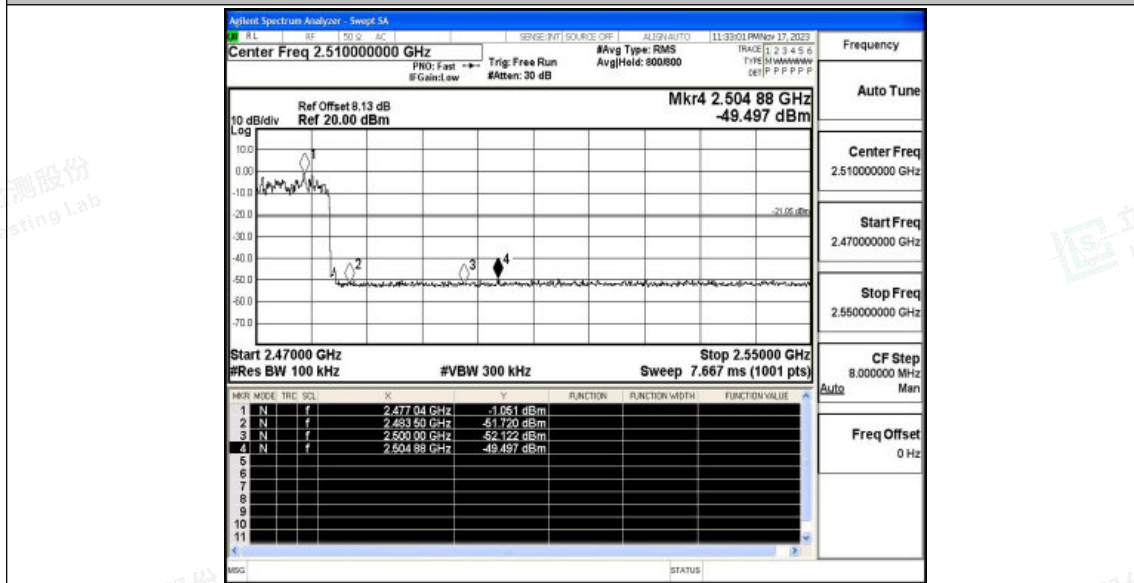
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3DH5_Ant1_High_Hop_2480



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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.46	0.46	---	PASS
			30~1000	0.46	-62.1	≤-19.54	PASS
			1000~26500	0.46	-49.22	≤-19.54	PASS
		2441	Reference	0.10	0.10	---	PASS
			30~1000	0.10	-61.7	≤-19.9	PASS
			1000~26500	0.10	-48.71	≤-19.9	PASS
		2480	Reference	0.16	0.16	---	PASS
			30~1000	0.16	-61.59	≤-19.84	PASS
			1000~26500	0.16	-49.08	≤-19.84	PASS
2DH5	Ant1	2402	Reference	-1.42	-1.42	---	PASS
			30~1000	-1.42	-62.06	≤-21.42	PASS
			1000~26500	-1.42	-49.19	≤-21.42	PASS
		2441	Reference	-1.74	-1.74	---	PASS
			30~1000	-1.74	-60.13	≤-21.74	PASS
			1000~26500	-1.74	-48.5	≤-21.74	PASS
		2480	Reference	-1.09	-1.09	---	PASS
			30~1000	-1.09	-61.74	≤-21.09	PASS
			1000~26500	-1.09	-49	≤-21.09	PASS
3DH5	Ant1	2402	Reference	-1.07	-1.07	---	PASS
			30~1000	-1.07	-61.21	≤-21.07	PASS
			1000~26500	-1.07	-48.57	≤-21.07	PASS
		2441	Reference	-1.77	-1.77	---	PASS
			30~1000	-1.77	-62.32	≤-21.77	PASS
			1000~26500	-1.77	-46.05	≤-21.77	PASS
		2480	Reference	-1.23	-1.23	---	PASS
			30~1000	-1.23	-61.45	≤-21.23	PASS
			1000~26500	-1.23	-48.96	≤-21.23	PASS



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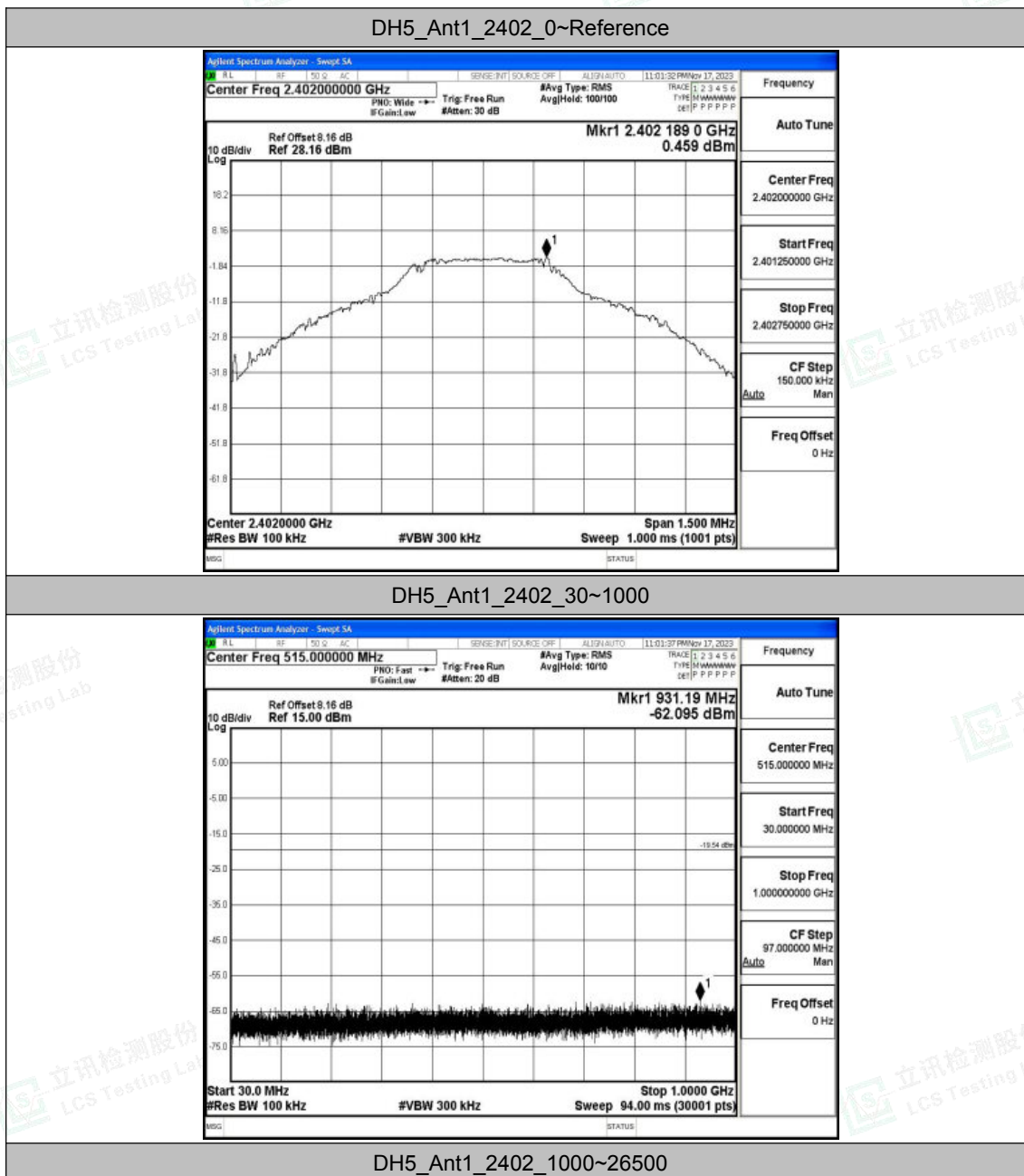
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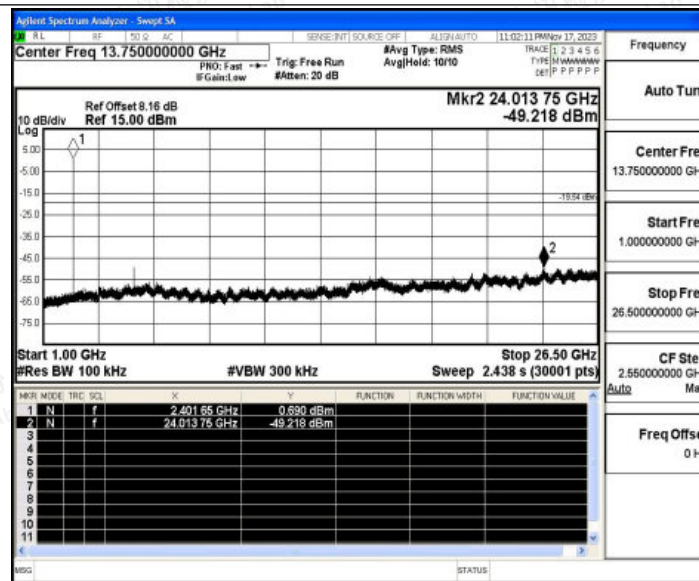
LC-SA-M403040EA

Test Graphs

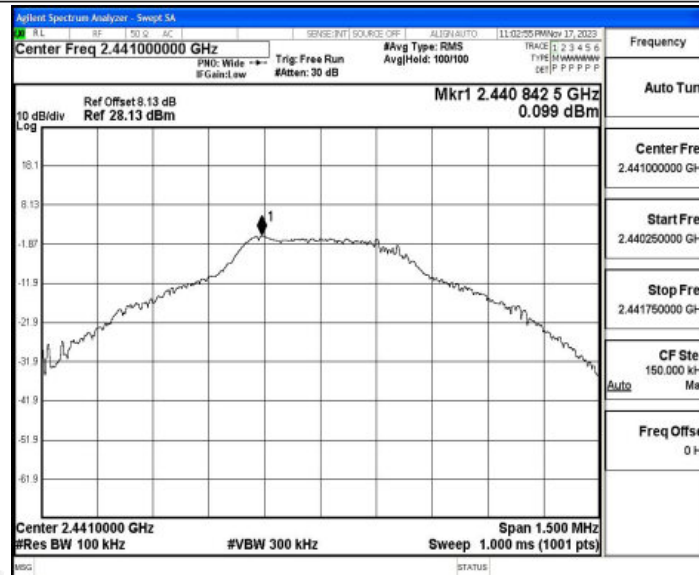




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DH5_Ant1_2441_0~Reference

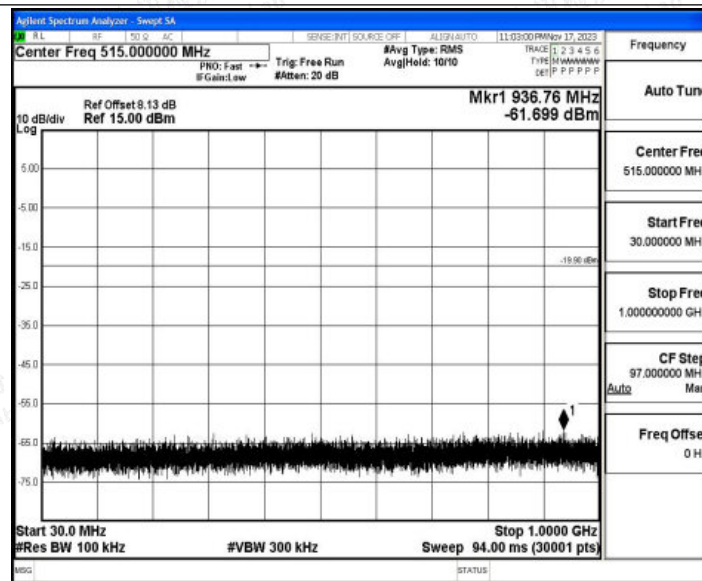


DH5_Ant1_2441_30~1000

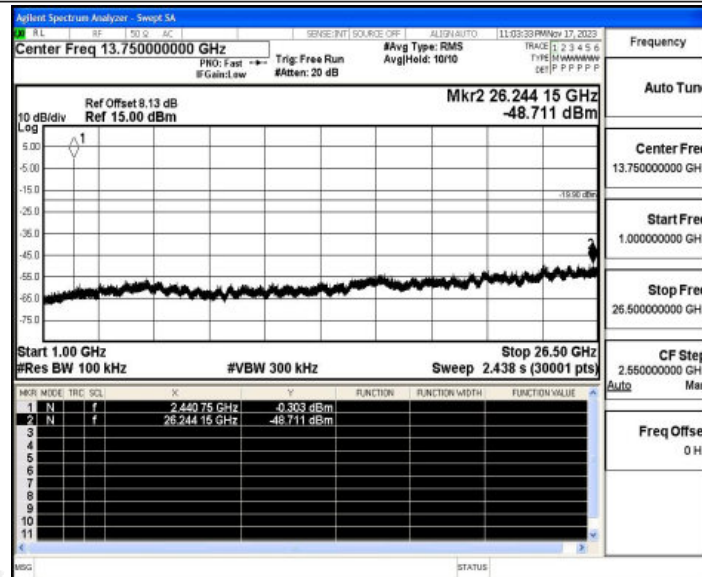




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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



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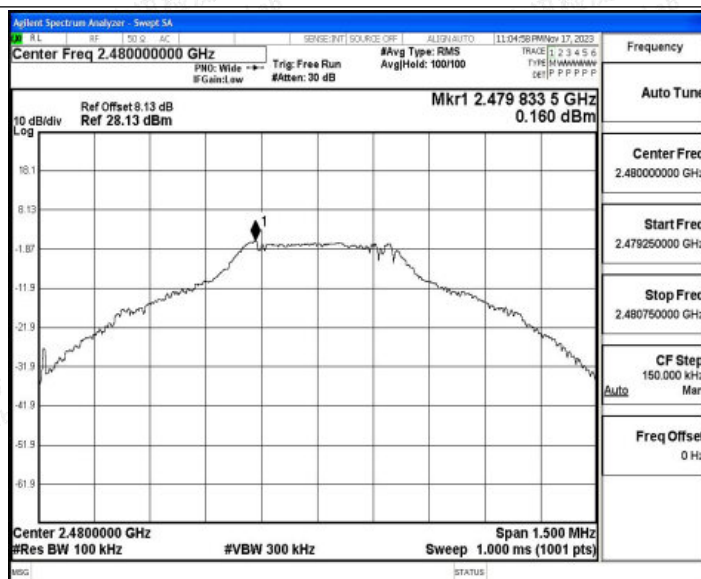
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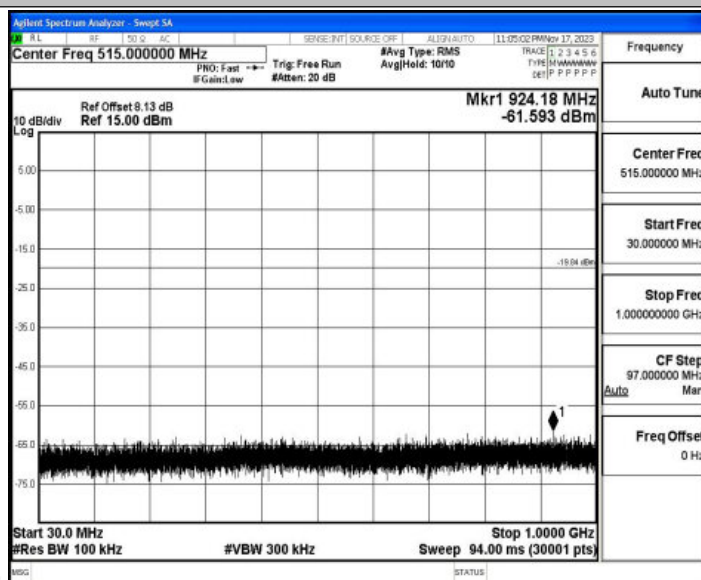
Scan code to check authenticity



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DH5_Ant1_2480_30~1000

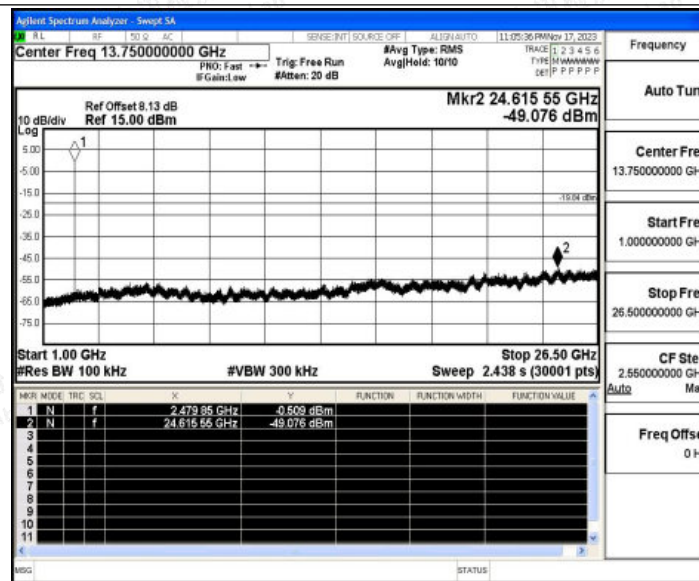


DH5_Ant1_2480_1000~26500

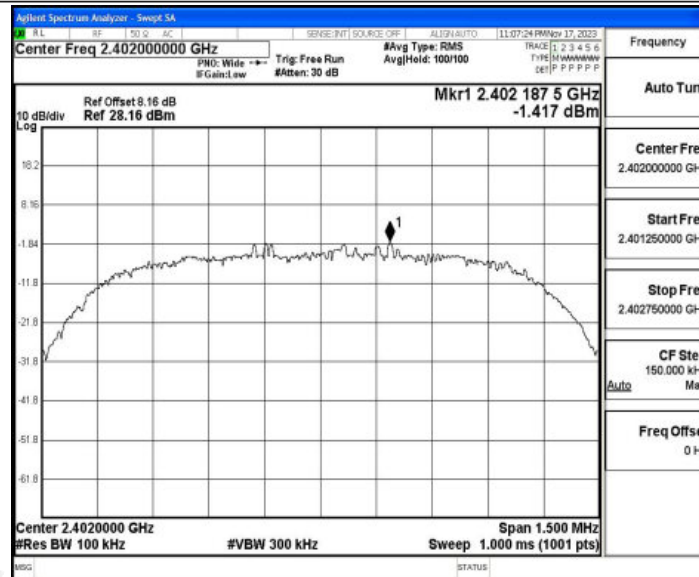




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2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



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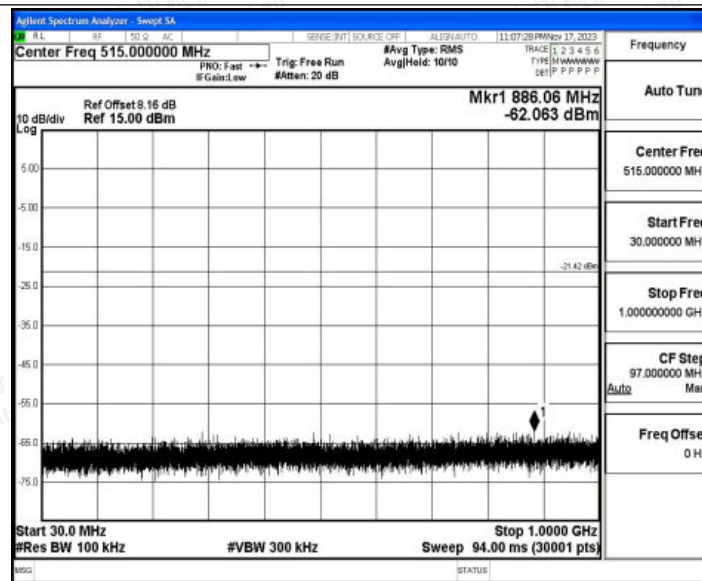
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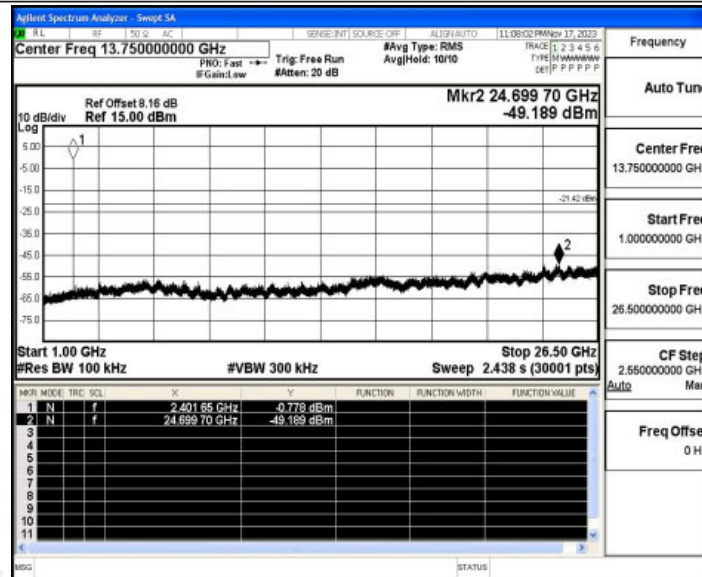
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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference



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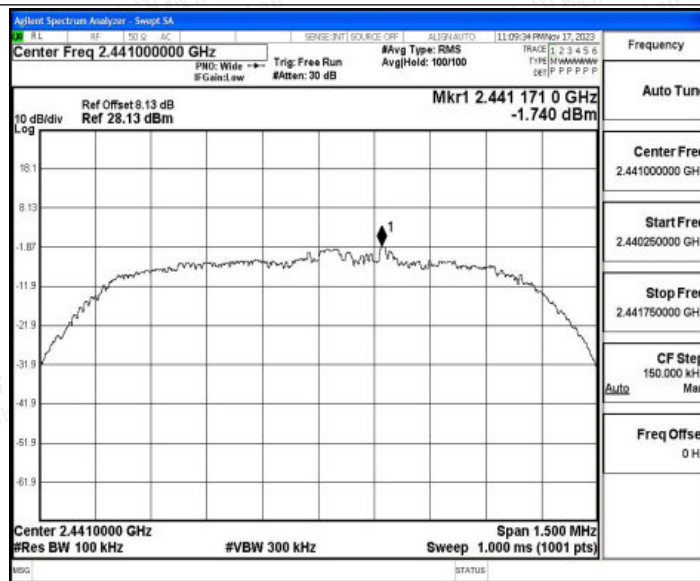
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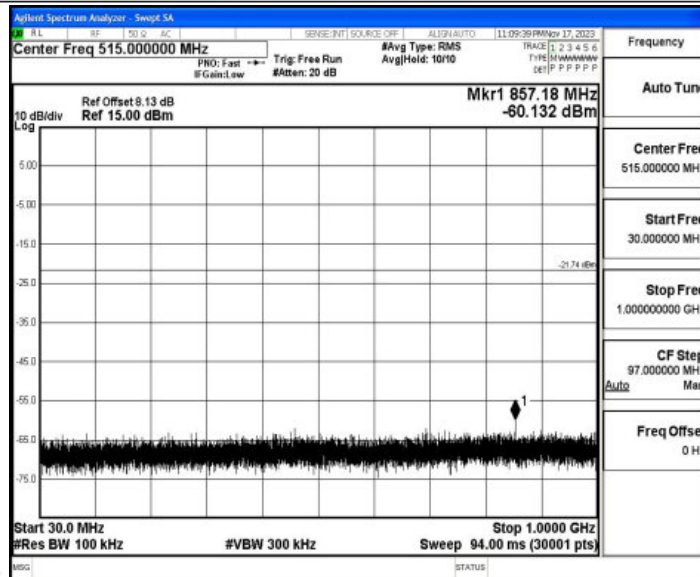
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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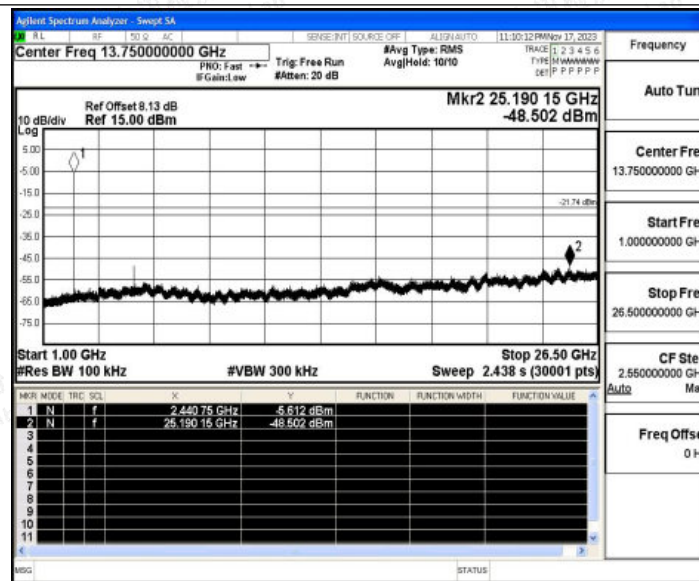
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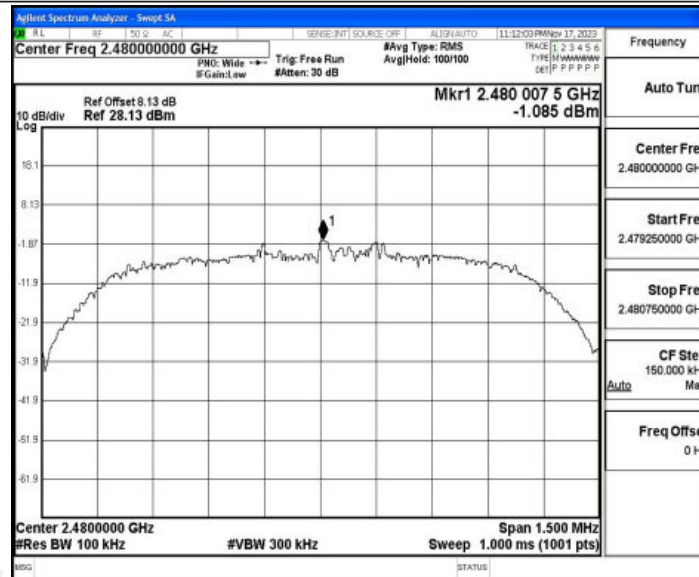
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



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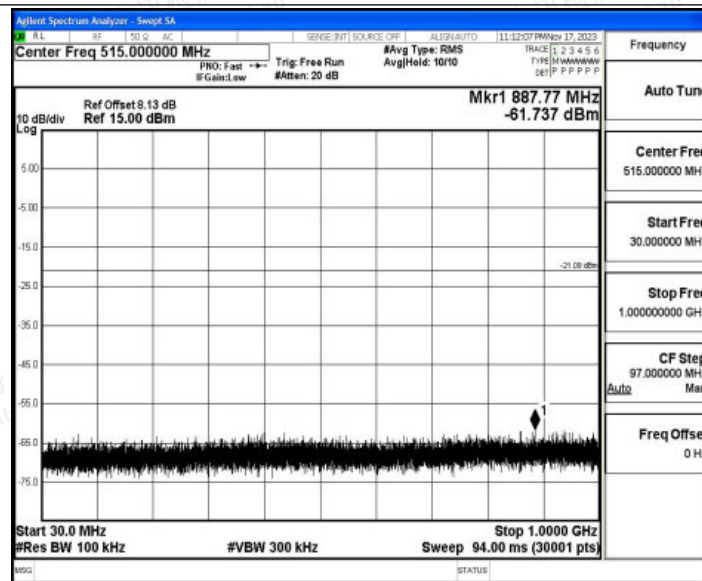
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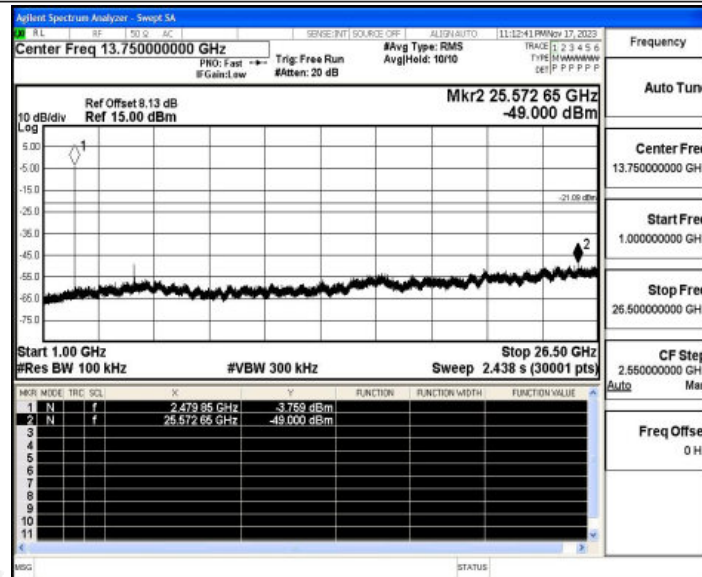
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2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



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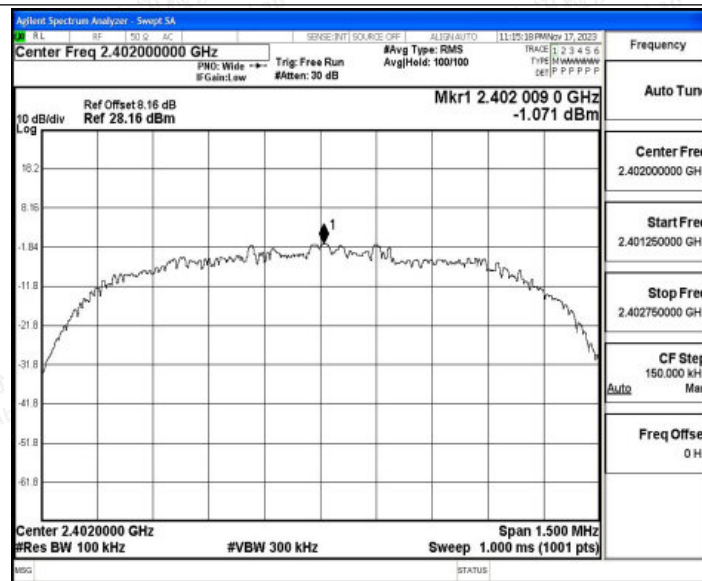
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

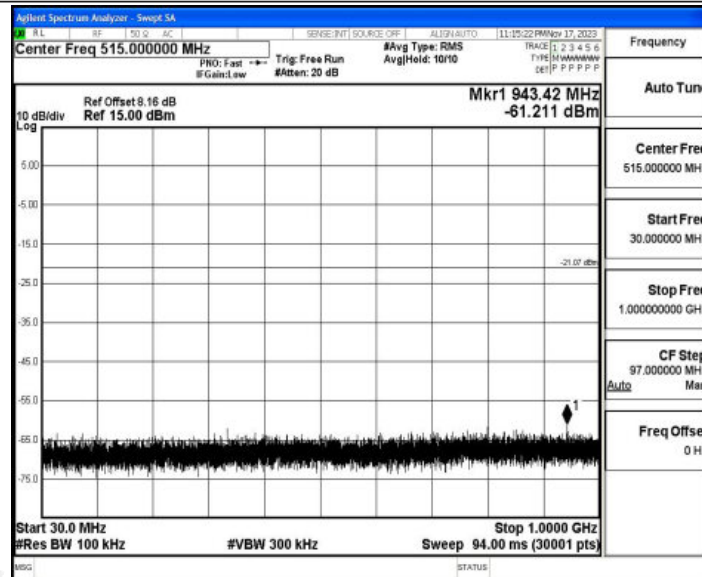
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3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500



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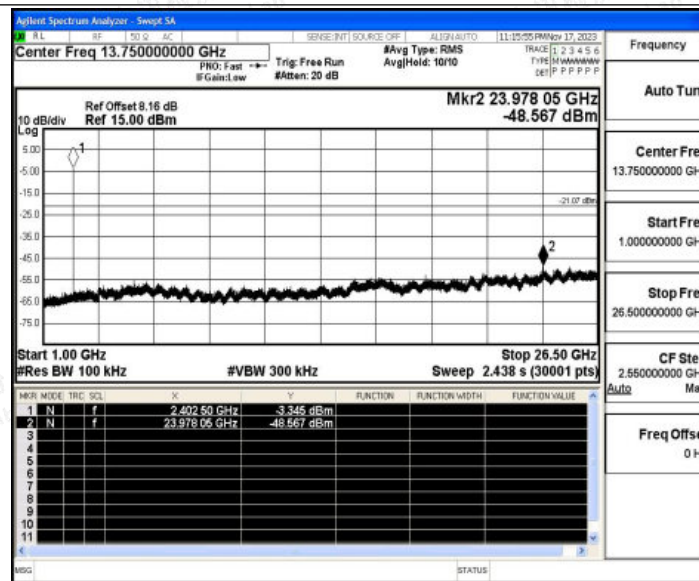
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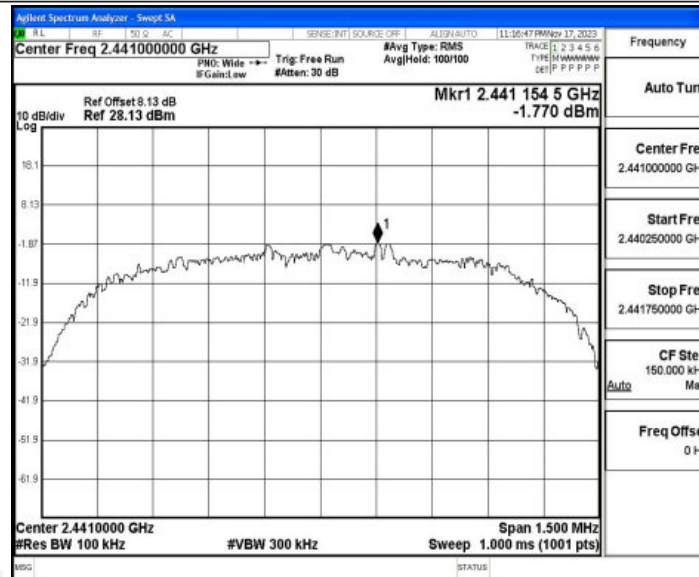
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LC SA 1403040EA



3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



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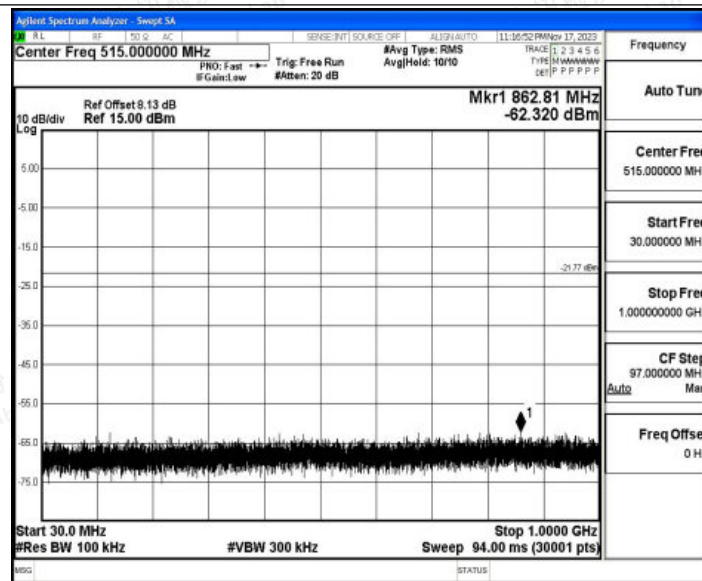
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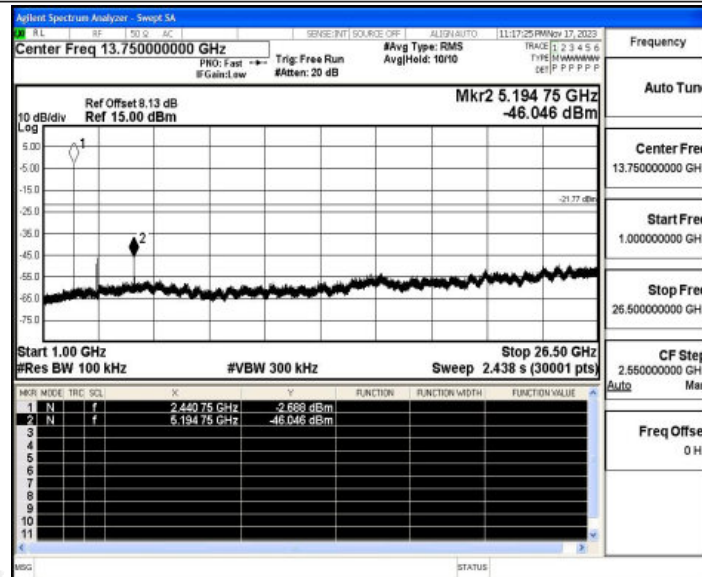
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



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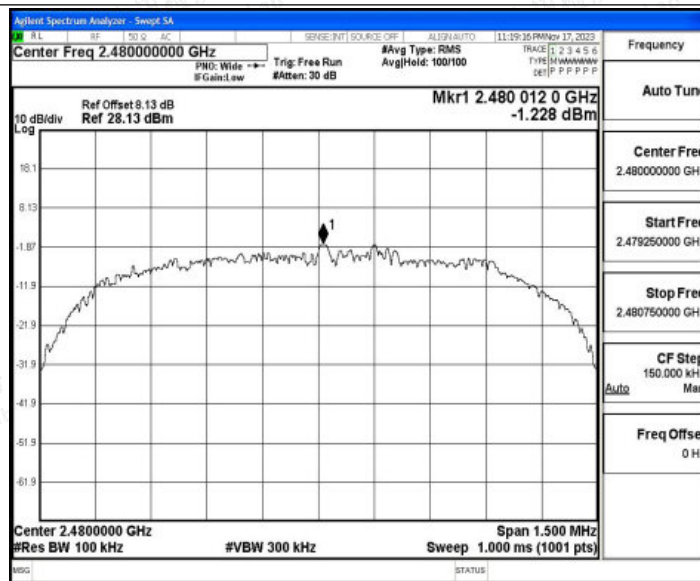
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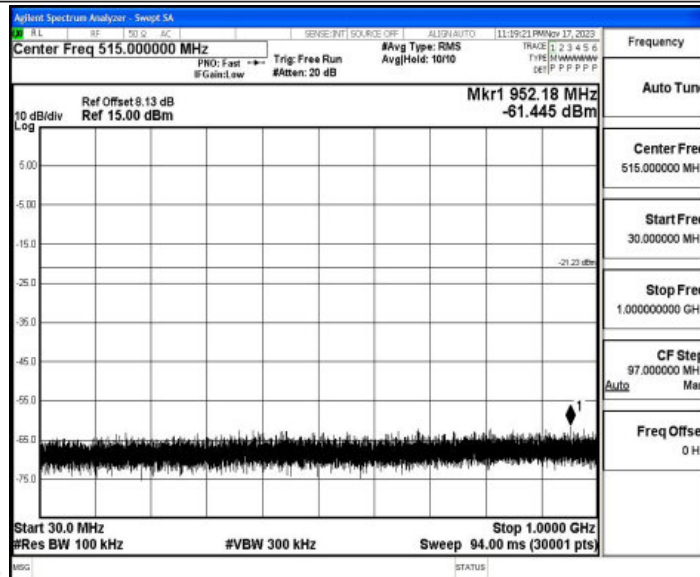
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3DH5_Ant1_2480_30~1000

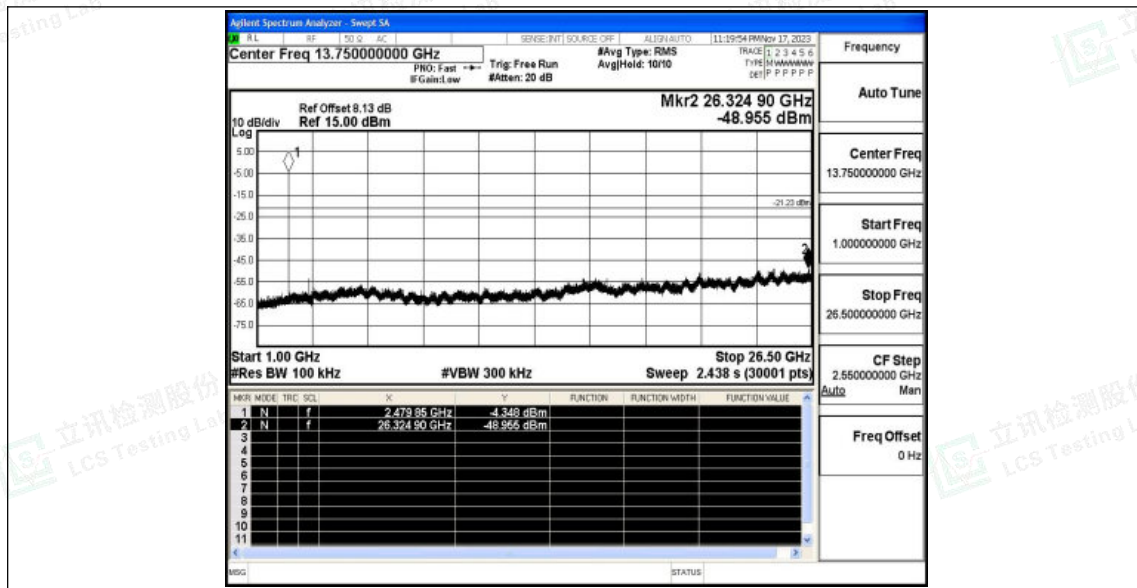


3DH5_Ant1_2480_1000~26500





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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	-49.25	≤-41.20	45.95	≤54	PASS
				AV	2385.470	-48.73	≤-41.20	46.47	≤54	PASS
				AV	2390.000	-48.96	≤-41.20	46.24	≤54	PASS
				Peak	2310.000	-43.73	≤-21.20	51.47	≤74	PASS
				Peak	2319.740	-39.86	≤-21.20	55.34	≤74	PASS
				Peak	2390.000	-40.77	≤-21.20	54.43	≤74	PASS
		High	2480	AV	2483.500	-48.65	≤-41.20	46.55	≤54	PASS
				AV	2498.320	-48.59	≤-41.20	46.61	≤54	PASS
				AV	2500.000	-48.74	≤-41.20	46.46	≤54	PASS
				Peak	2483.500	-43.68	≤-21.20	51.52	≤74	PASS
				Peak	2496.880	-39.23	≤-21.20	55.97	≤74	PASS
				Peak	2500.000	-44.47	≤-21.20	50.73	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-41.51	≤-21.20	53.69	≤74	PASS
				Peak	2312.390	-38.5	≤-21.20	56.70	≤74	PASS
				Peak	2390.000	-41.39	≤-21.20	53.81	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-41.07	≤-21.20	54.13	≤74	PASS
				Peak	2484.080	-38.85	≤-21.20	56.35	≤74	PASS
				Peak	2500.000	-40.67	≤-21.20	54.53	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.24	≤-41.20	45.96	≤54	PASS
				AV	2387.045	-48.67	≤-41.20	46.53	≤54	PASS
				AV	2390.000	-48.93	≤-41.20	46.27	≤54	PASS
				Peak	2310.000	-43.1	≤-21.20	52.10	≤74	PASS
				Peak	2386.835	-39.58	≤-21.20	55.62	≤74	PASS
				Peak	2390.000	-42.63	≤-21.20	52.57	≤74	PASS
		High	2480	AV	2483.500	-48.45	≤-41.20	46.75	≤54	PASS
				AV	2483.520	-48.45	≤-41.20	46.75	≤54	PASS
				AV	2500.000	-48.7	≤-41.20	46.50	≤54	PASS
				Peak	2483.500	-44.27	≤-21.20	50.93	≤74	PASS
				Peak	2489.200	-39.85	≤-21.20	55.35	≤74	PASS
				Peak	2500.000	-44.71	≤-21.20	50.49	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.67	≤-21.20	54.53	≤74	PASS
				Peak	2344.730	-38.71	≤-21.20	56.49	≤74	PASS
				Peak	2390.000	-40.36	≤-21.20	54.84	≤74	PASS
		High	Hop_24	Peak	2483.500	-40.5	≤-21.20	54.70	≤74	PASS



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3DH5	Ant1		80	Peak	2497.200	-38.66	≤ -21.20	56.54	≤ 74	PASS
				Peak	2500.000	-40.63	≤ -21.20	54.57	≤ 74	PASS
		Low	2402	AV	2310.000	-49.14	≤ -41.20	46.06	≤ 54	PASS
				AV	2381.900	-48.71	≤ -41.20	46.49	≤ 54	PASS
				AV	2390.000	-48.92	≤ -41.20	46.28	≤ 54	PASS
				Peak	2310.000	-45.19	≤ -21.20	50.01	≤ 74	PASS
				Peak	2345.675	-39.47	≤ -21.20	55.73	≤ 74	PASS
				Peak	2390.000	-45.08	≤ -21.20	50.12	≤ 74	PASS
		High	2480	AV	2483.500	-48.41	≤ -41.20	46.79	≤ 54	PASS
				AV	2483.520	-48.4	≤ -41.20	46.80	≤ 54	PASS
				AV	2500.000	-48.66	≤ -41.20	46.54	≤ 54	PASS
				Peak	2483.500	-41.73	≤ -21.20	53.47	≤ 74	PASS
				Peak	2485.440	-39.9	≤ -21.20	55.30	≤ 74	PASS
				Peak	2500.000	-42.22	≤ -21.20	52.98	≤ 74	PASS
		Low	Hop_2402	Peak	2310.000	-41.34	≤ -21.20	53.86	≤ 74	PASS
				Peak	2369.510	-38.44	≤ -21.20	56.76	≤ 74	PASS
				Peak	2390.000	-40.88	≤ -21.20	54.32	≤ 74	PASS
		High	Hop_2480	Peak	2483.500	-40.29	≤ -21.20	54.91	≤ 74	PASS
				Peak	2499.680	-38.34	≤ -21.20	56.86	≤ 74	PASS
				Peak	2500.000	-39.93	≤ -21.20	55.27	≤ 74	PASS

Note:

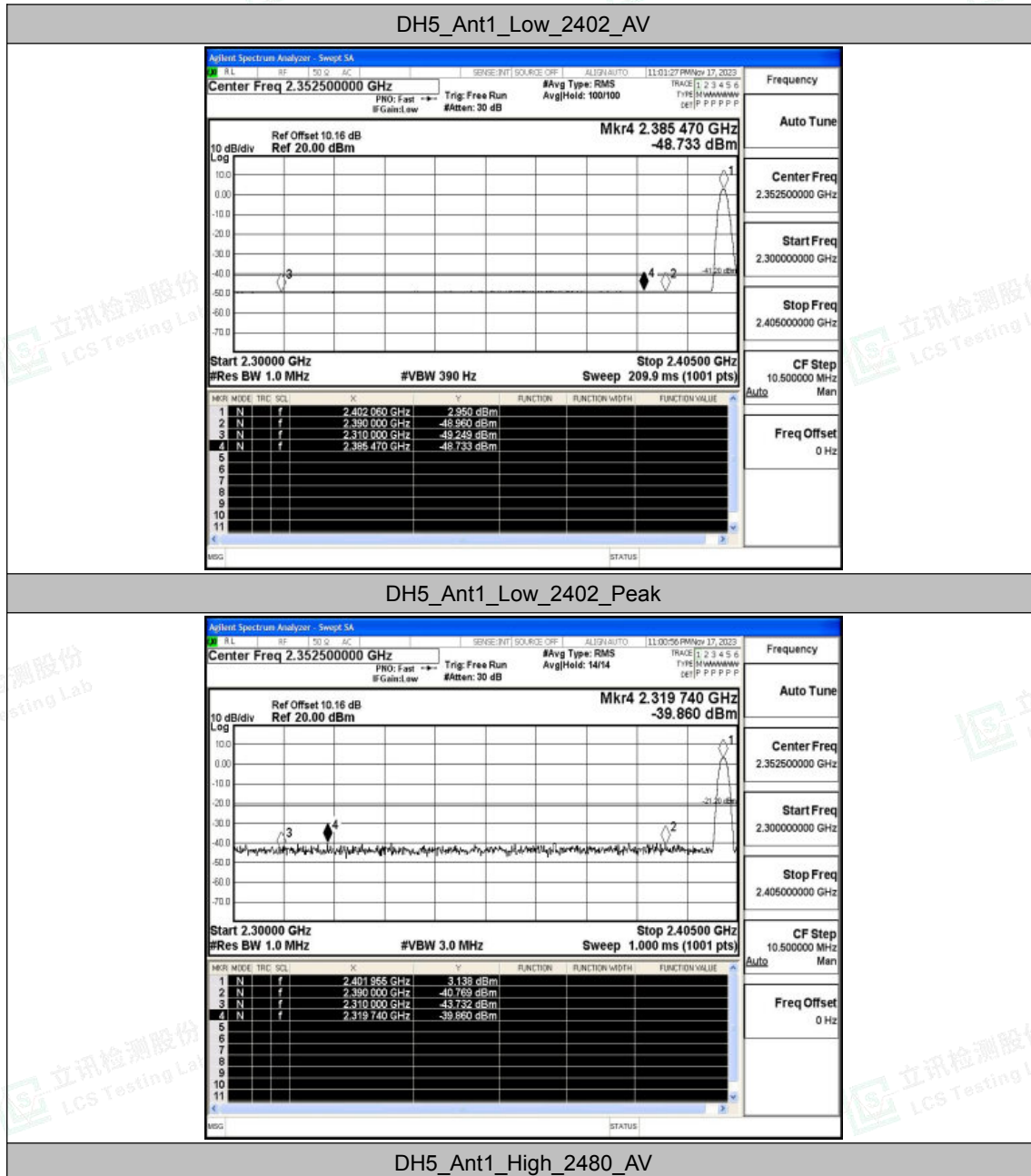
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.





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Test Graphs



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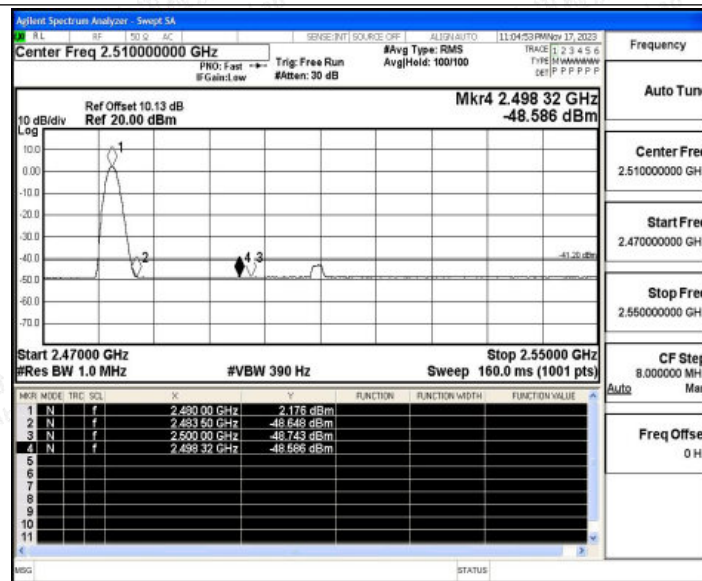
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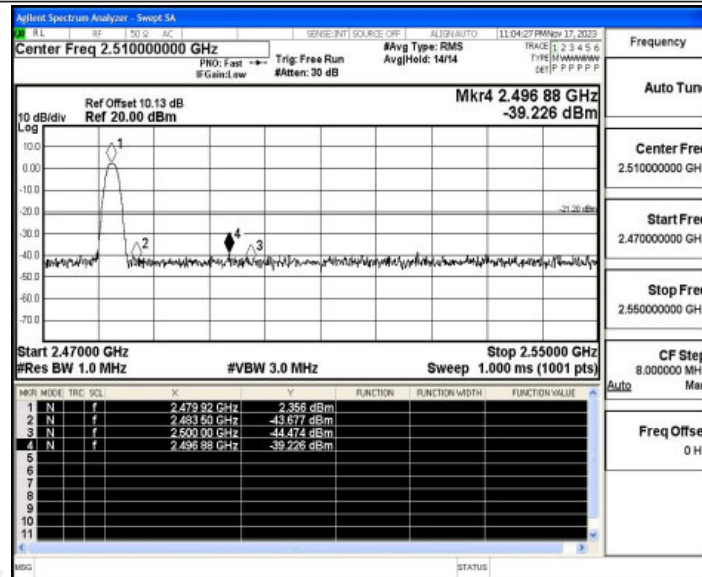
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DH5_Ant1_High_2480_Peak



DH5_Ant1_Low_Hop_2402_Peak



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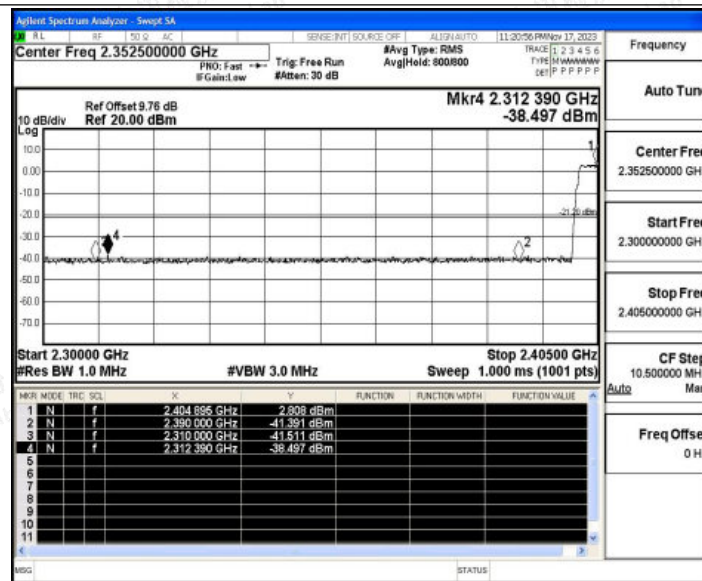
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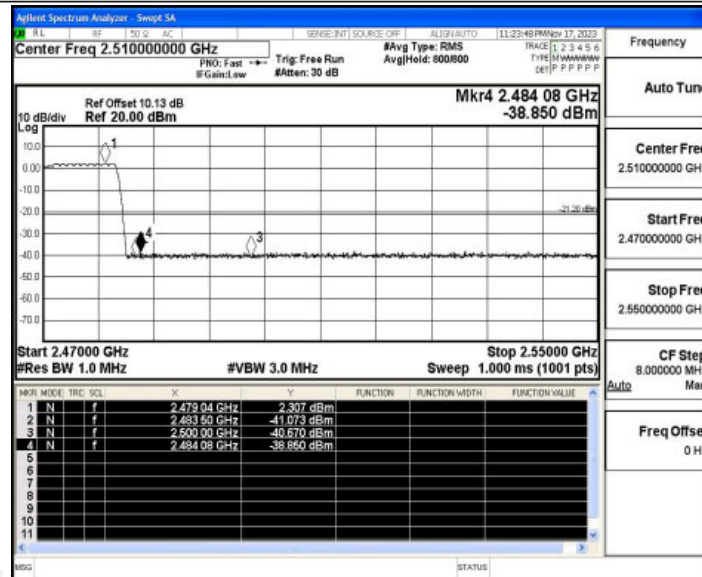
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DH5_Ant1_High_Hop_2480_Peak



2DH5_Ant1_Low_2402_AV



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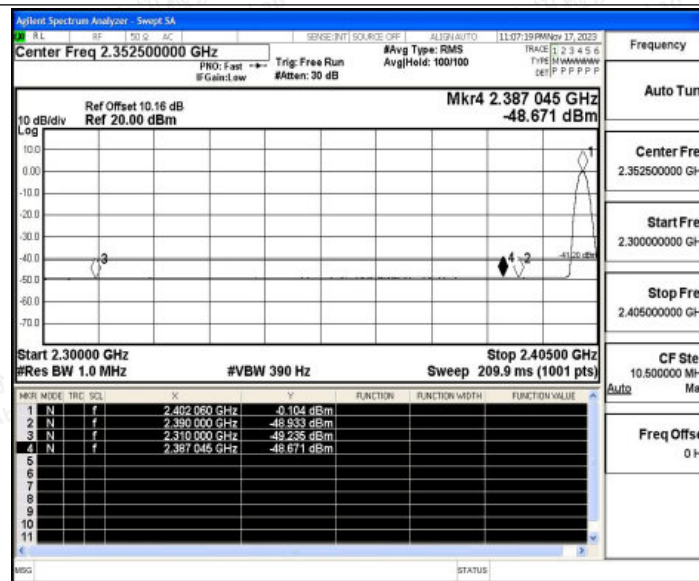
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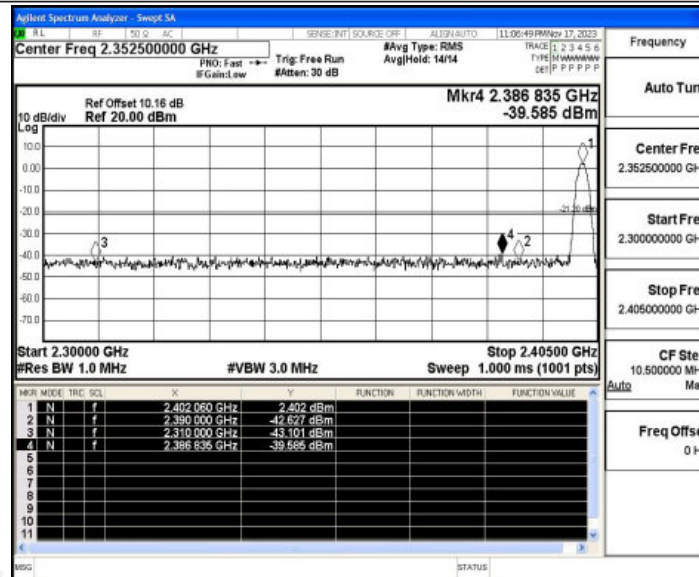
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2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV



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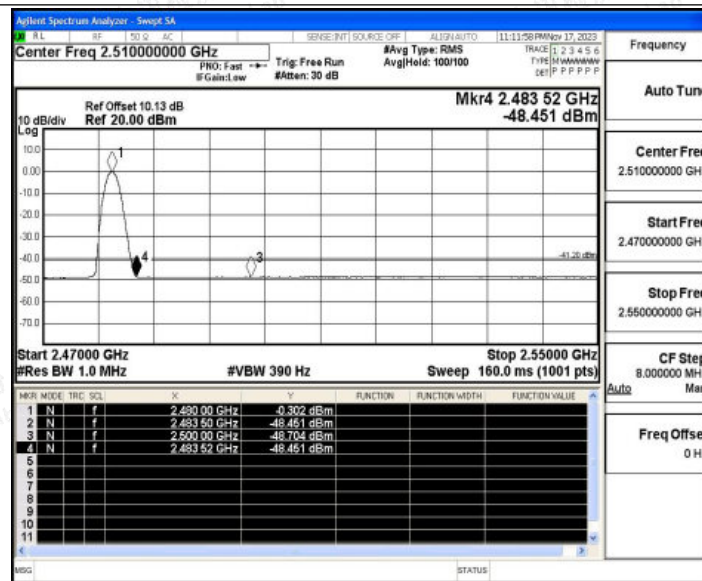
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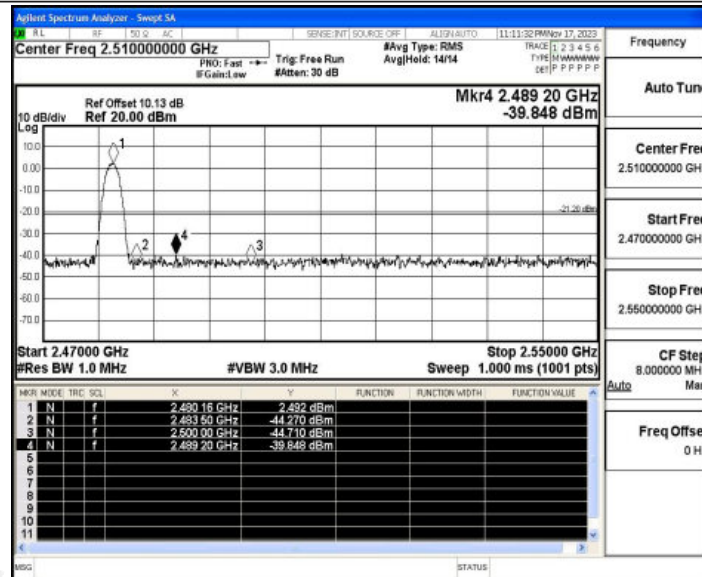
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2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak



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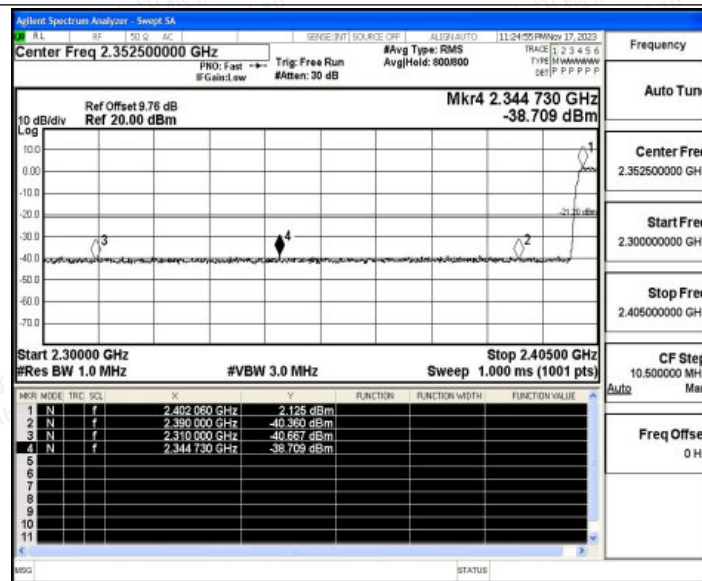
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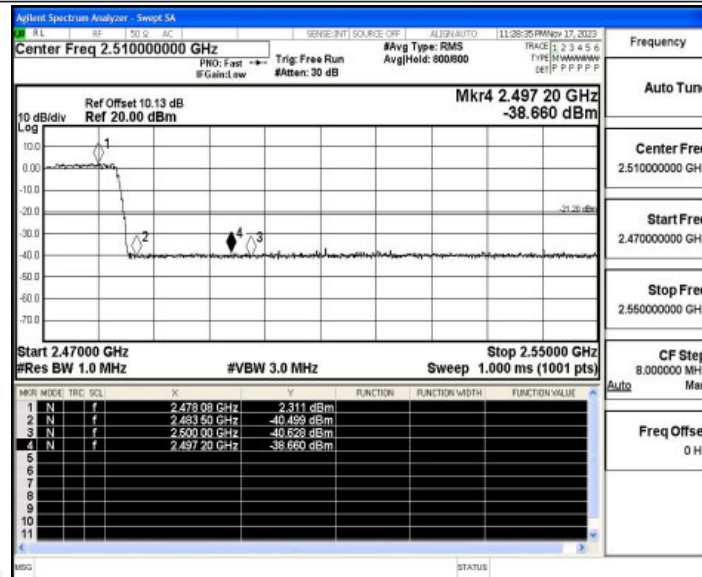
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2DH5_Ant1_High_Hop_2480_Peak



3DH5_Ant1_Low_2402_AV



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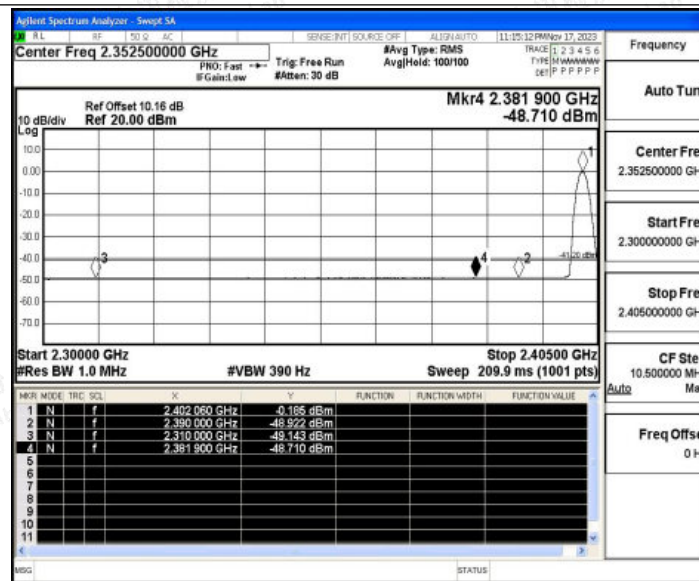
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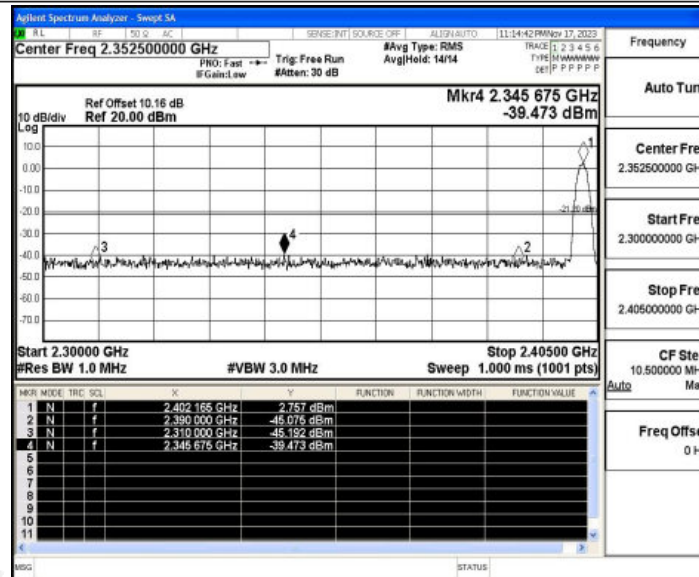
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3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



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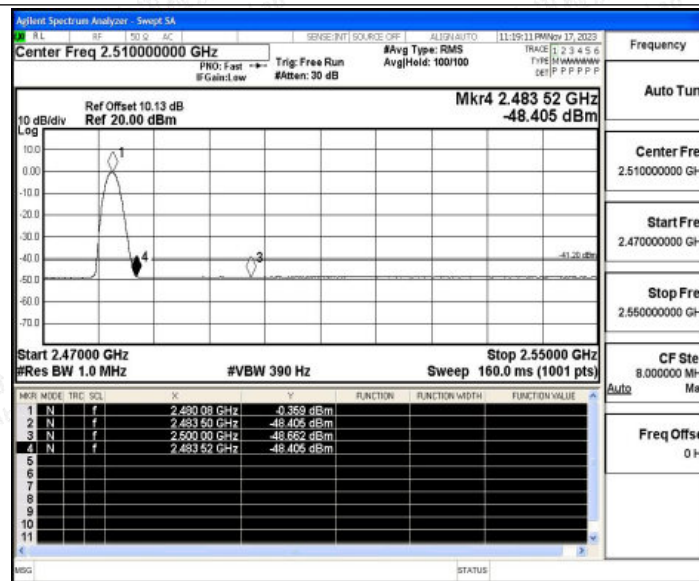
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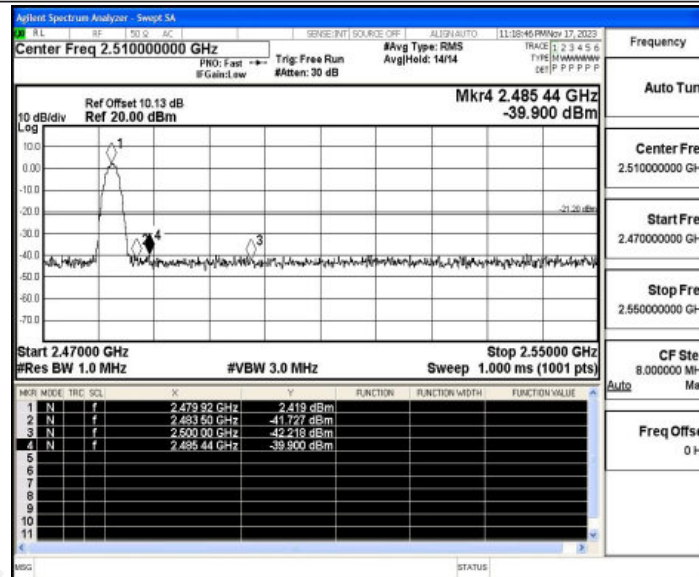
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3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak



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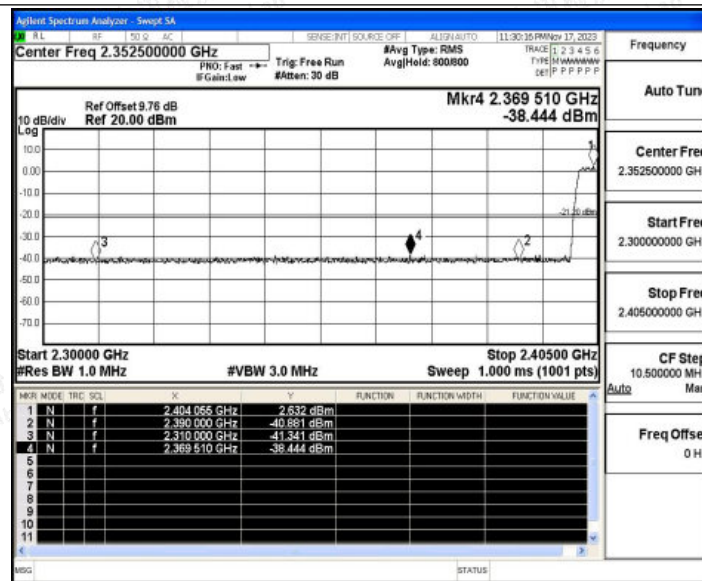
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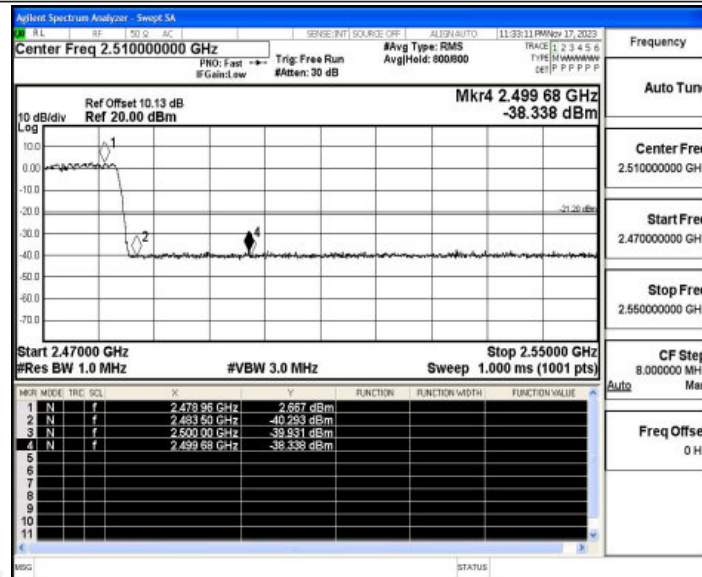
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3DH5_Ant1_High_Hop_2480_Peak



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