

FCC Appendix RF Test Data for BT

FCC ID : 2BWRU-CY-BX58D

Company : Wuhan Chuangyin Intelligent Electronic
Technology Co., Ltd.

EUT : Thermal Bluetooth Printer

Model Number : CY-BX58D

Report No. : CTA26060201201

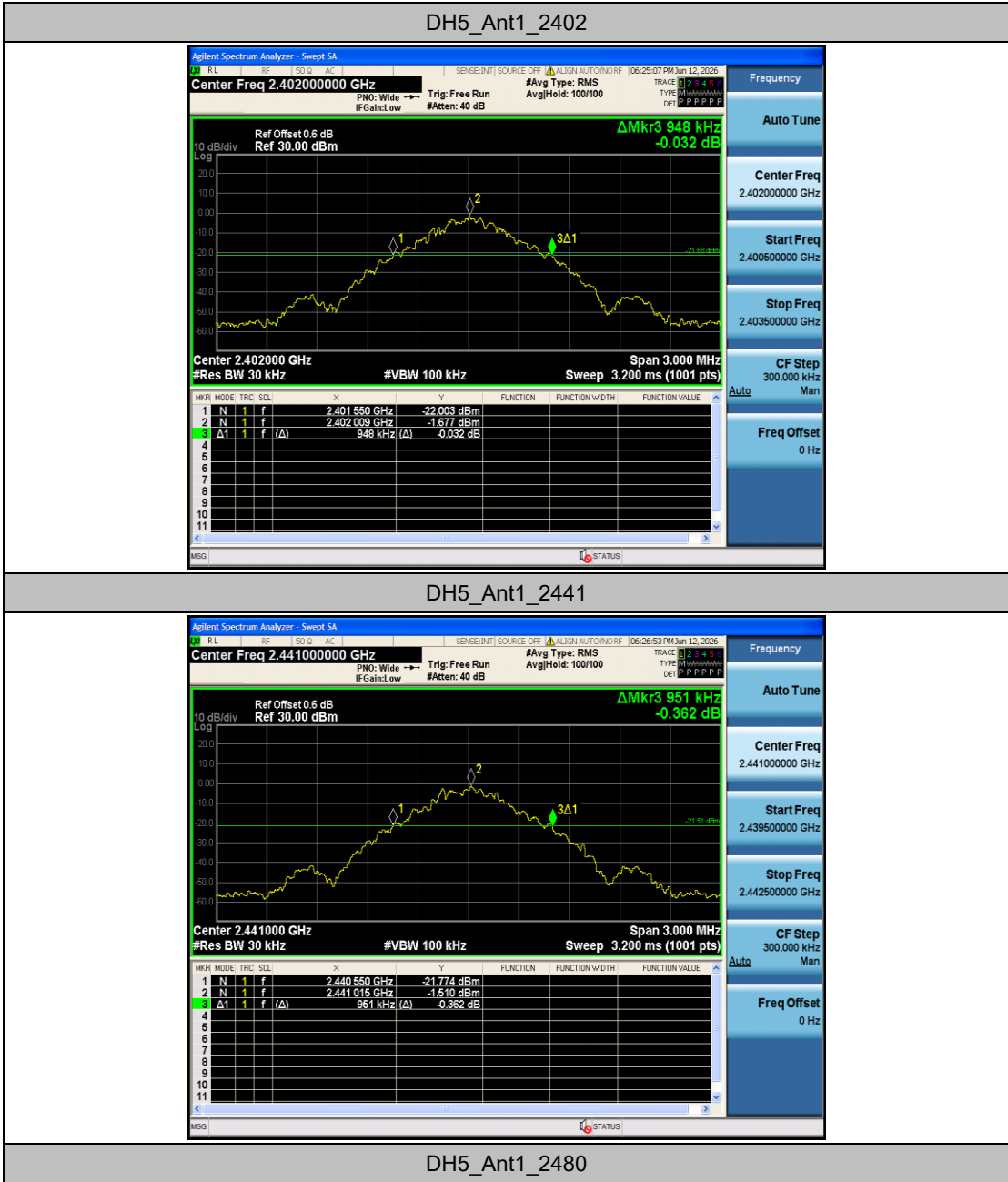
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.550	2402.498	---	---
		2441	0.951	2440.550	2441.501	---	---
		2480	0.957	2479.547	2480.504	---	---
2DH5	Ant1	2402	1.290	2401.376	2402.666	---	---
		2441	1.329	2440.343	2441.672	---	---
		2480	1.284	2479.379	2480.663	---	---
3DH5	Ant1	2402	1.287	2401.367	2402.654	---	---
		2441	1.284	2440.367	2441.651	---	---
		2480	1.299	2479.361	2480.660	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

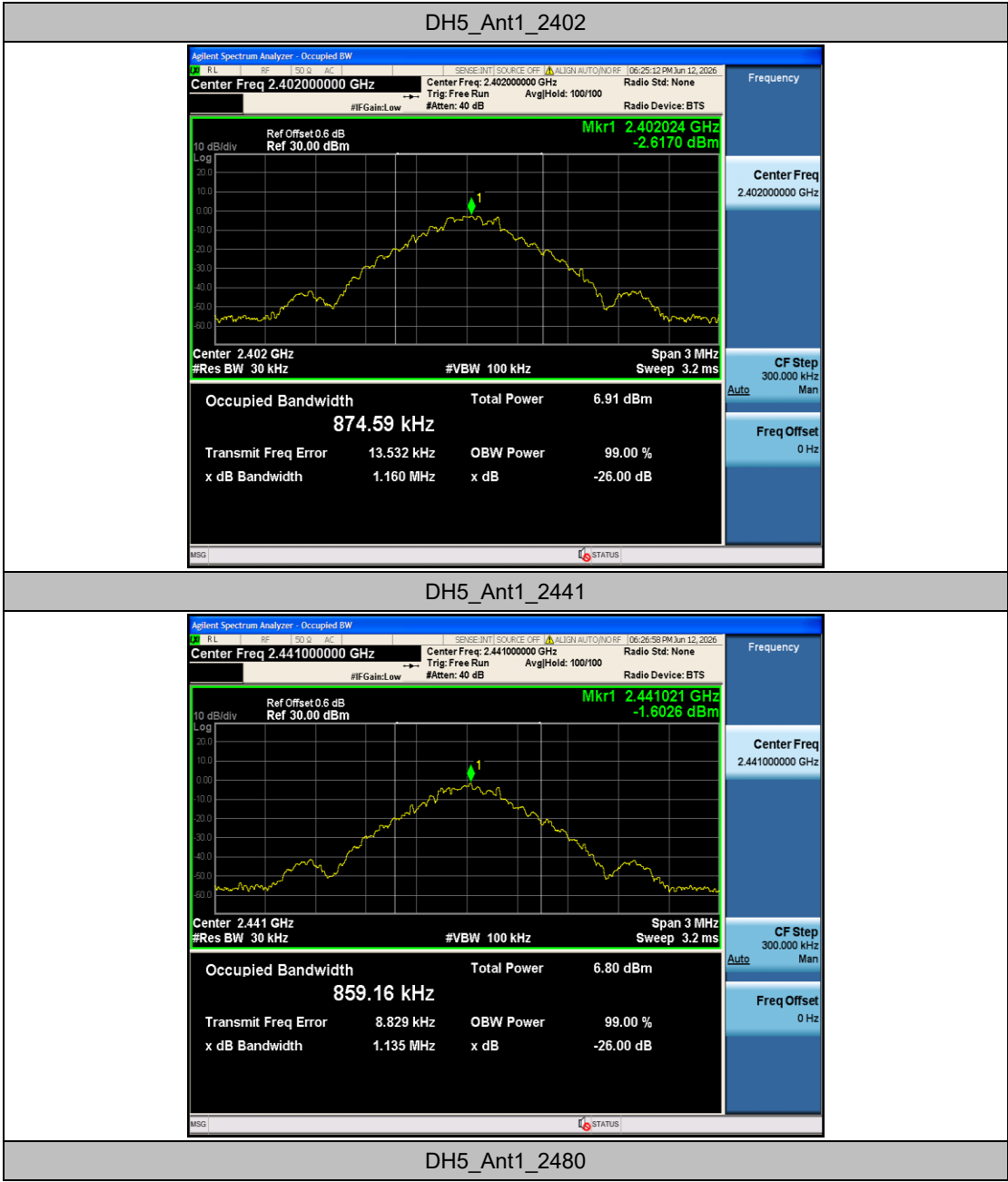


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87459	2401.5762	2402.4508	---	---
		2441	0.85916	2440.5793	2441.4384	---	---
		2480	0.86153	2479.5815	2480.4430	---	---
2DH5	Ant1	2402	1.1851	2401.4166	2402.6017	---	---
		2441	1.1932	2440.4179	2441.6111	---	---
		2480	1.1863	2479.4209	2480.6072	---	---
3DH5	Ant1	2402	1.1896	2401.4157	2402.6053	---	---
		2441	1.1914	2440.4178	2441.6092	---	---
		2480	1.1844	2479.4234	2480.6078	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.34	≤20.97	PASS
		2441	0.26	≤20.97	PASS
		2480	0.02	≤20.97	PASS
2DH5	Ant1	2402	-0.52	≤20.97	PASS
		2441	-0.60	≤20.97	PASS
		2480	-0.81	≤20.97	PASS
3DH5	Ant1	2402	-0.13	≤20.97	PASS
		2441	-0.21	≤20.97	PASS
		2480	-0.44	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.988	≥ 0.957	PASS
2DH5	Ant1	Hop	1.116	≥ 0.898	PASS
3DH5	Ant1	Hop	0.998	≥ 0.874	PASS

Test Graphs





Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	318	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.662	169	0.281	≤0.4	PASS
DH5	Ant1	Hop	2.911	106	0.309	≤0.4	PASS
2DH1	Ant1	Hop	0.414	317	0.131	≤0.4	PASS
2DH3	Ant1	Hop	1.667	163	0.272	≤0.4	PASS
2DH5	Ant1	Hop	2.916	98	0.286	≤0.4	PASS
3DH1	Ant1	Hop	0.414	316	0.131	≤0.4	PASS
3DH3	Ant1	Hop	1.664	155	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.916	120	0.35	≤0.4	PASS

DH1_Ant1_Hop

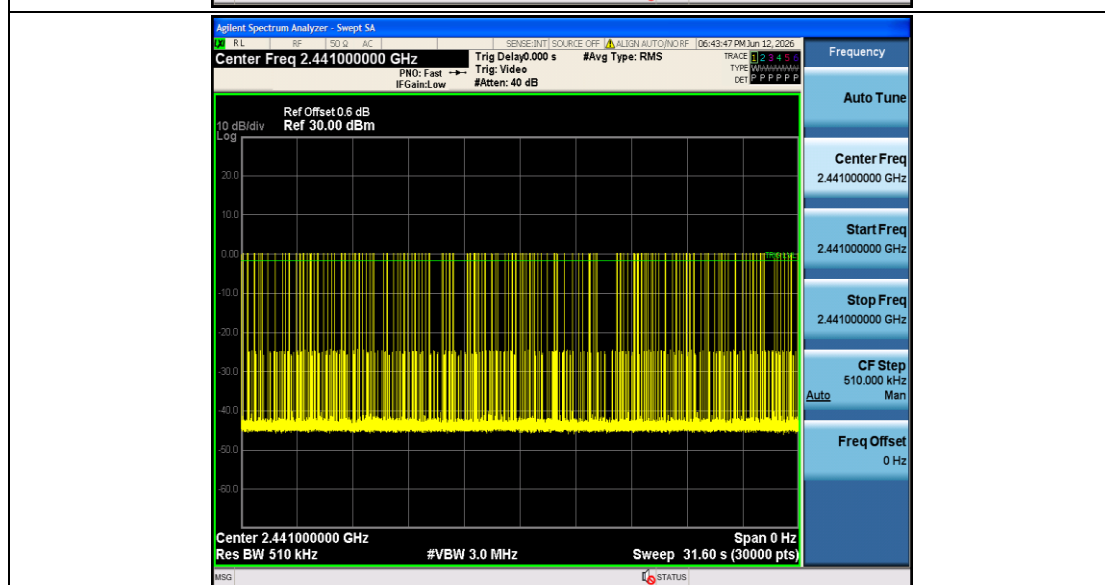
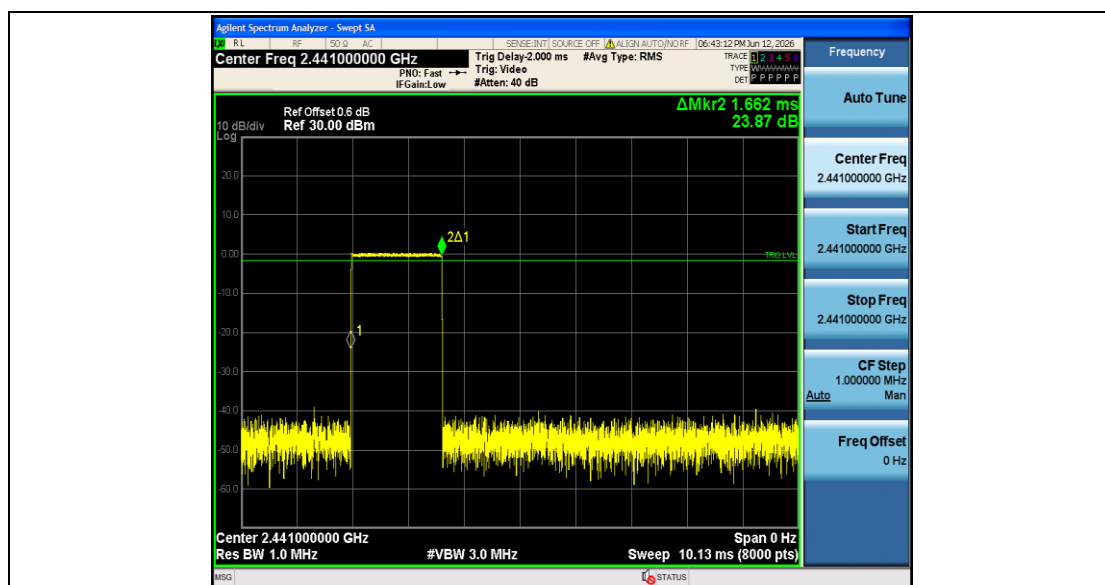
The figure displays two screenshots of an Agilent Spectrum Analyzer, both in Sweep SA mode, showing signal analysis results for two different antennas.

Top Screenshot (DH1_Ant1_Hop):

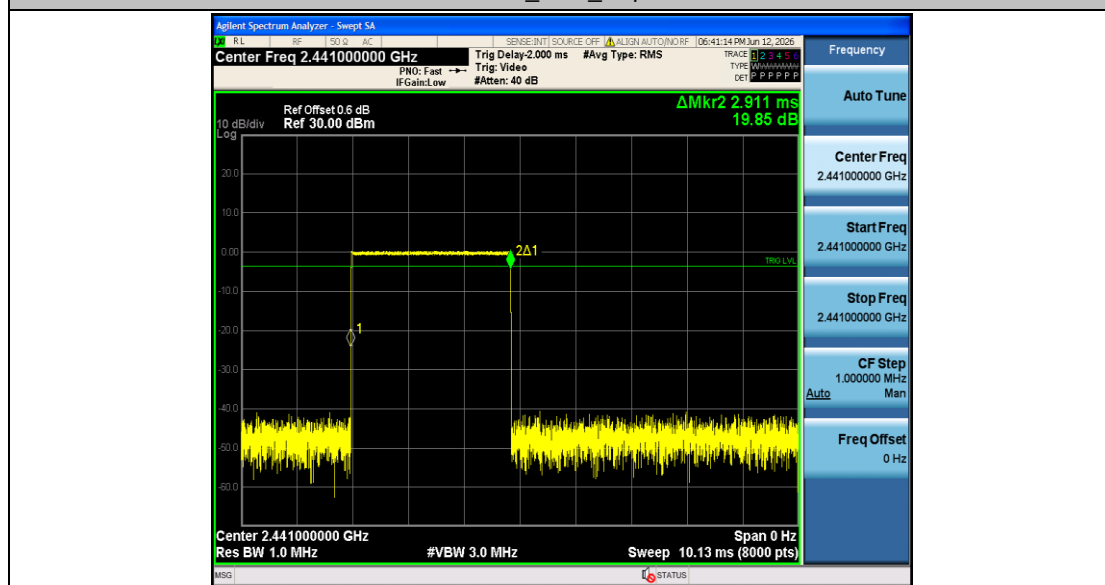
- Center Freq:** 2.441000000 GHz
- Ref Offset:** 0.6 dB
- Ref:** 30.00 dBm
- Trig Delay:** 2.000 ms
- Trig:** Video
- #Avg Type:** RMS
- #Atten:** 40 dB
- Span:** 0 Hz
- Res BW:** 1.0 MHz
- #VBW:** 3.0 MHz
- Sweep:** 10.13 ms (8000 pts)
- Marker 1:** 2.441000000 GHz, -20.00 dBm
- Marker 2:** 2.441000000 GHz, -1.00 dBm
- Marker 2 Delta:** 20.00 dB
- Marker 2 Delay:** 407.0 μ s
- Marker 2 Amplitude:** 21.27 dB

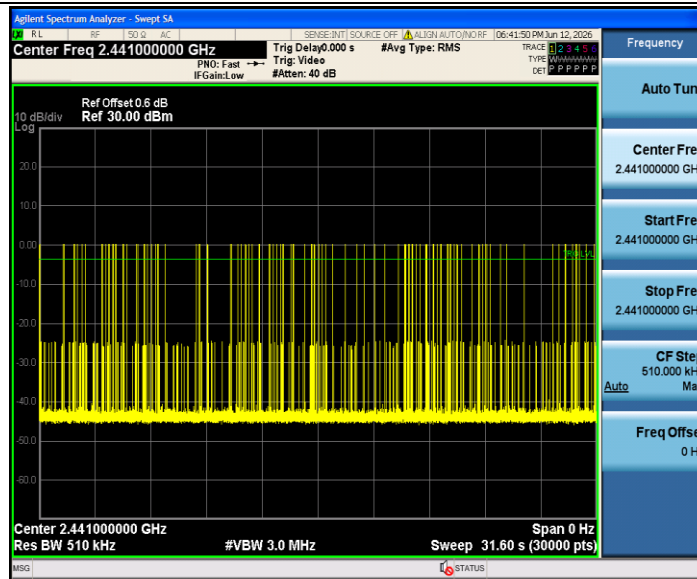
Bottom Screenshot (DH3_Ant1_Hop):

- Center Freq:** 2.441000000 GHz
- Ref Offset:** 0.6 dB
- Ref:** 30.00 dBm
- Trig Delay:** 0.000 s
- Trig:** Video
- #Avg Type:** RMS
- #Atten:** 40 dB
- Span:** 0 Hz
- Res BW:** 510 kHz
- #VBW:** 3.0 MHz
- Sweep:** 31.60 s (30000 pts)

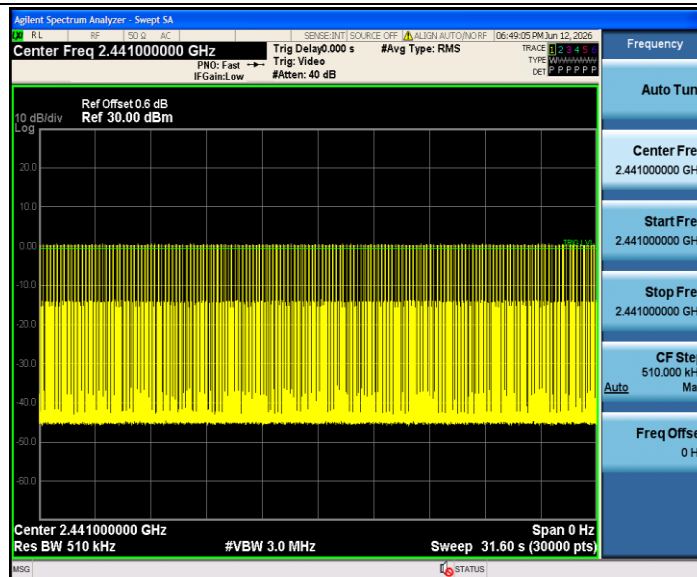
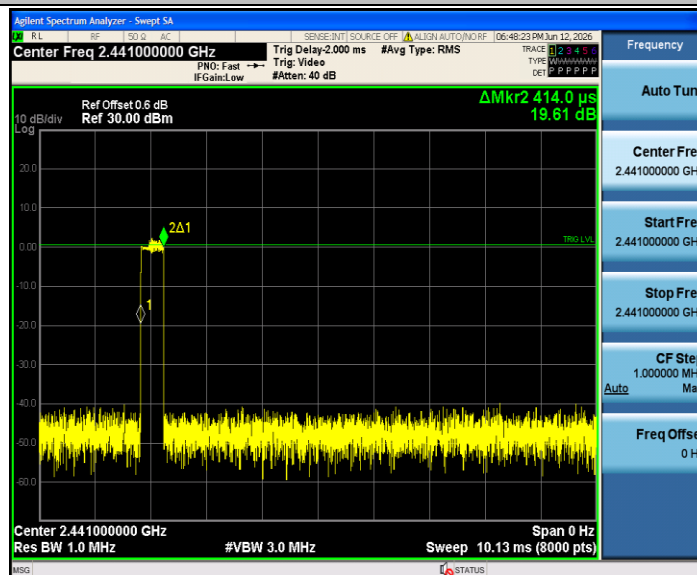


DH5_Ant1_Hop

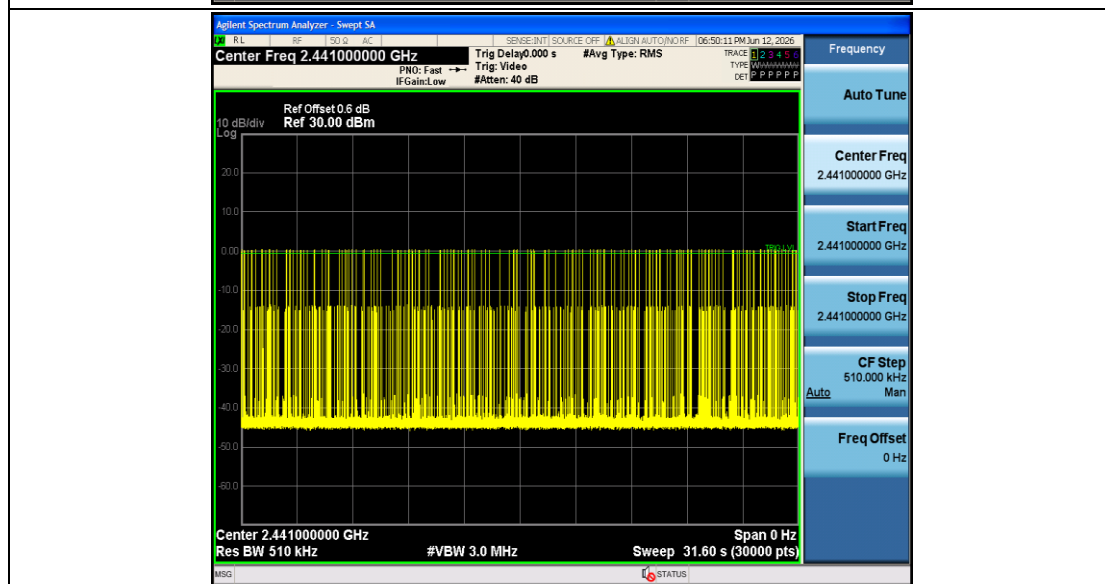
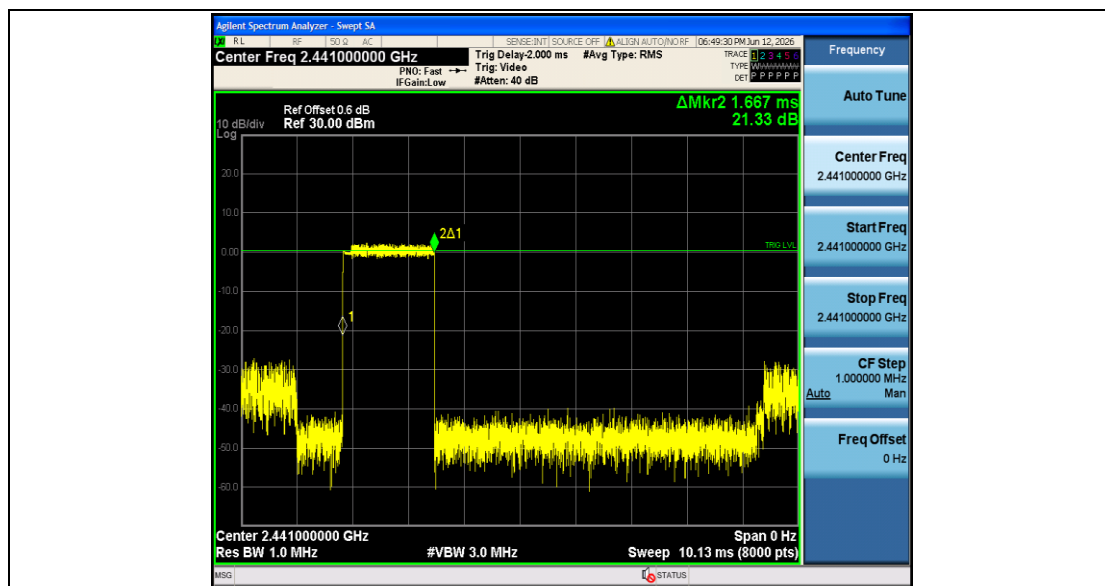




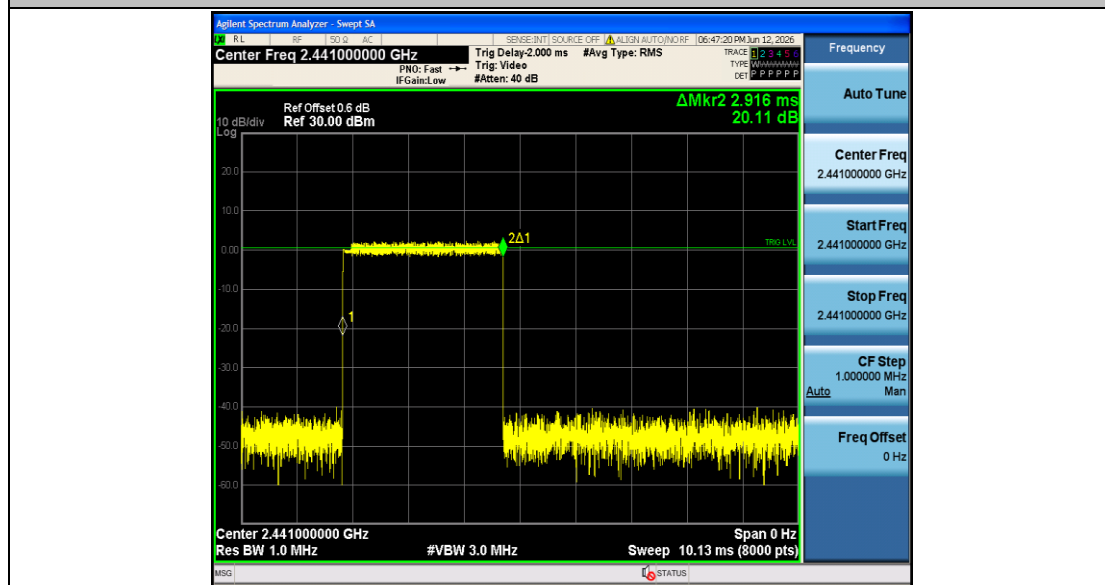
2DH1_Ant1_Hop

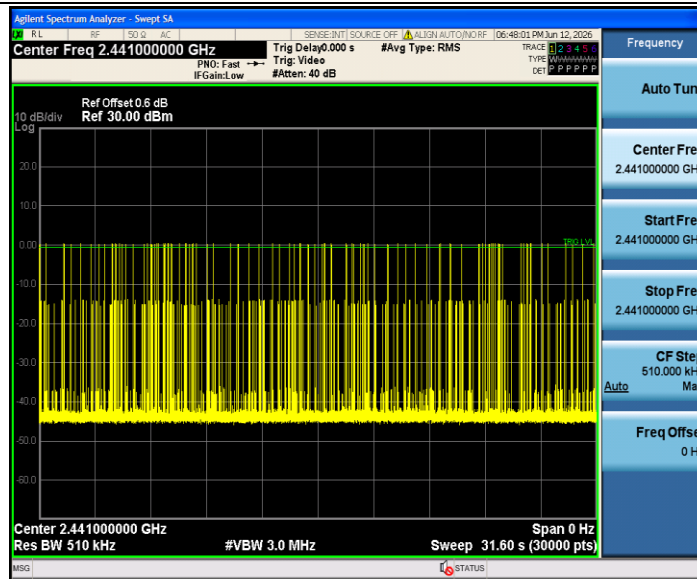


2DH3_Ant1_Hop

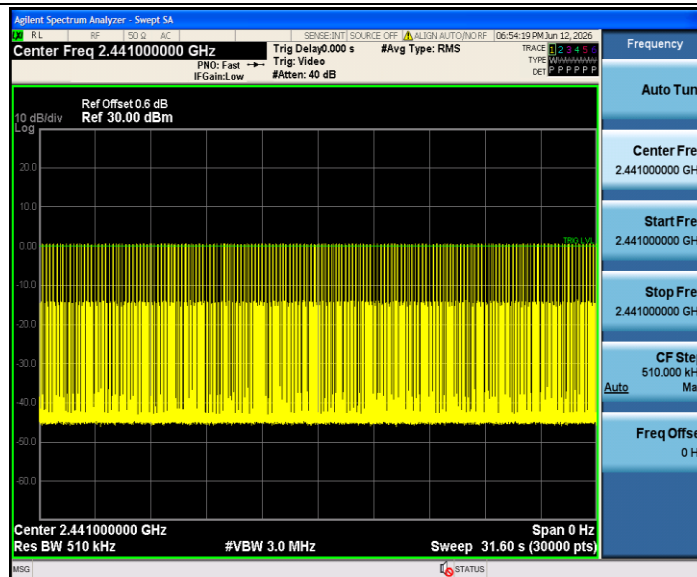
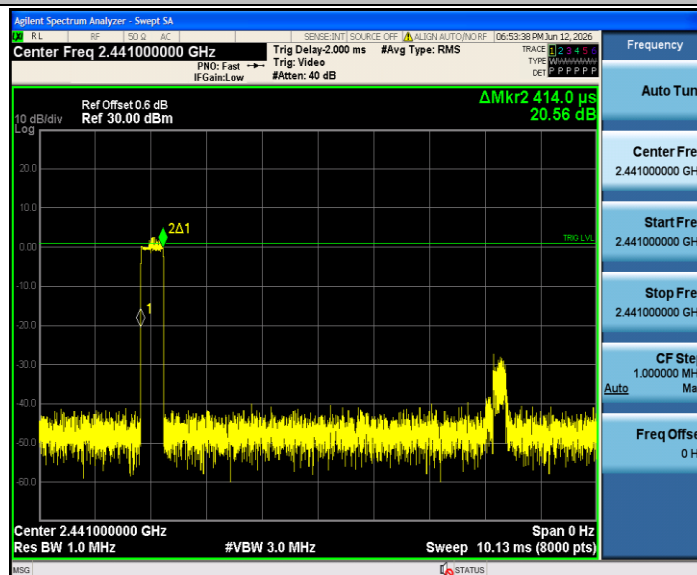


2DH5_Ant1_Hop

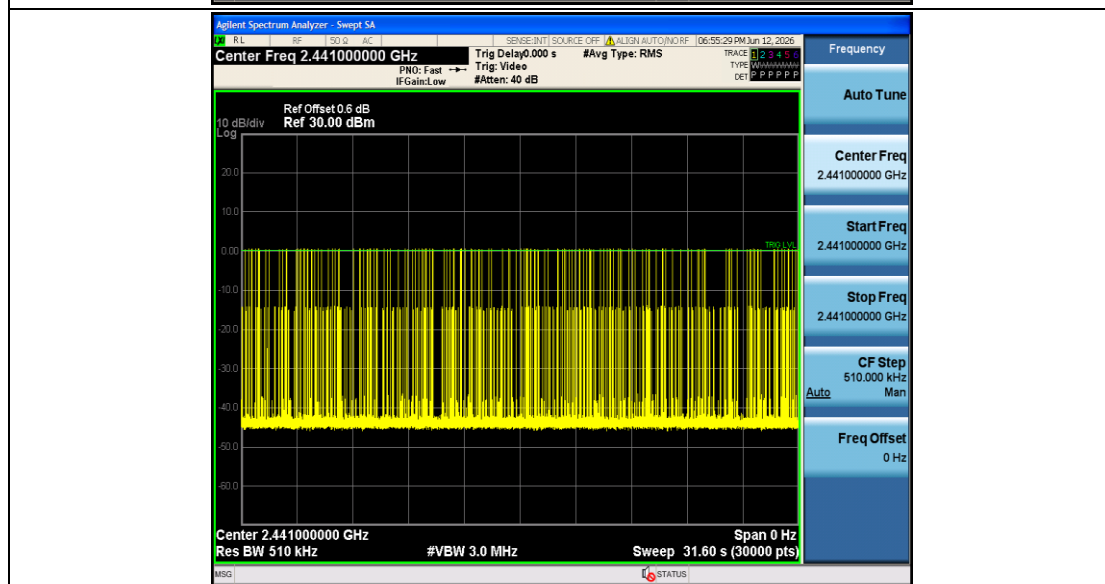
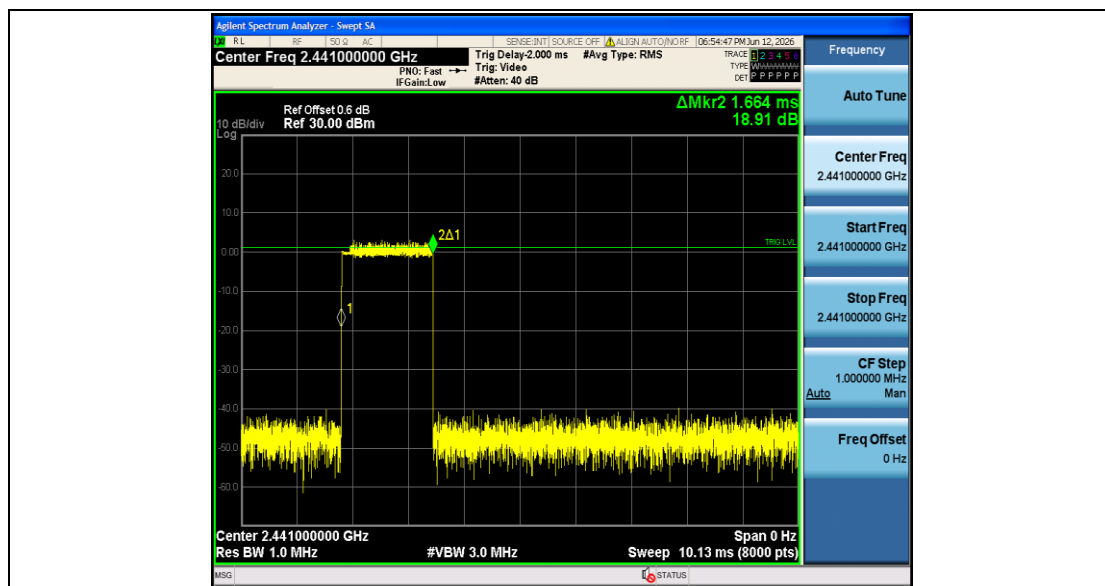




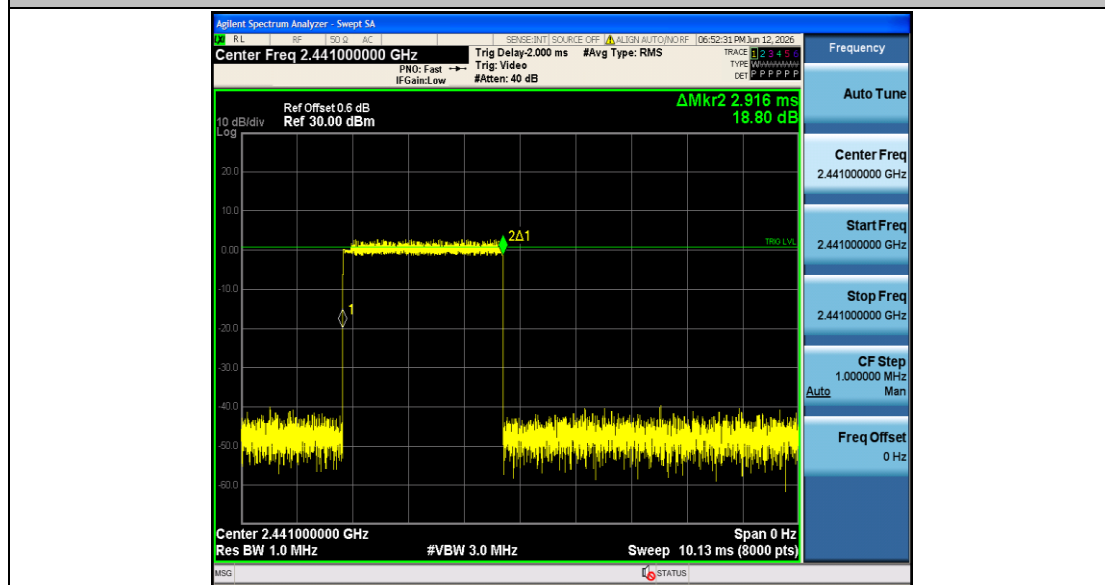
3DH1_Ant1_Hop

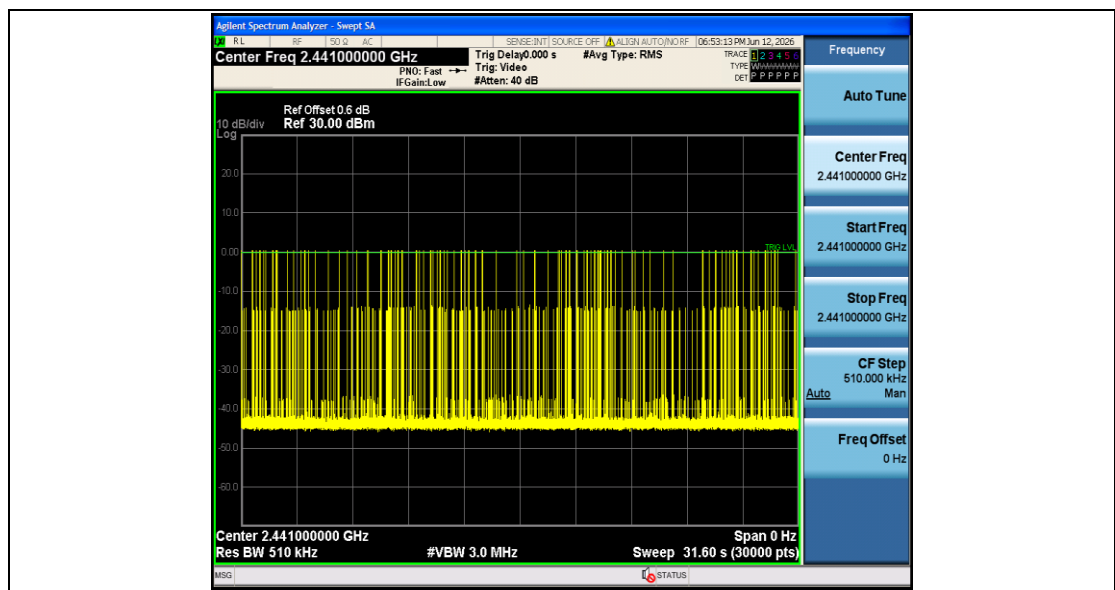


3DH3_Ant1_Hop



3DH5_Ant1_Hop



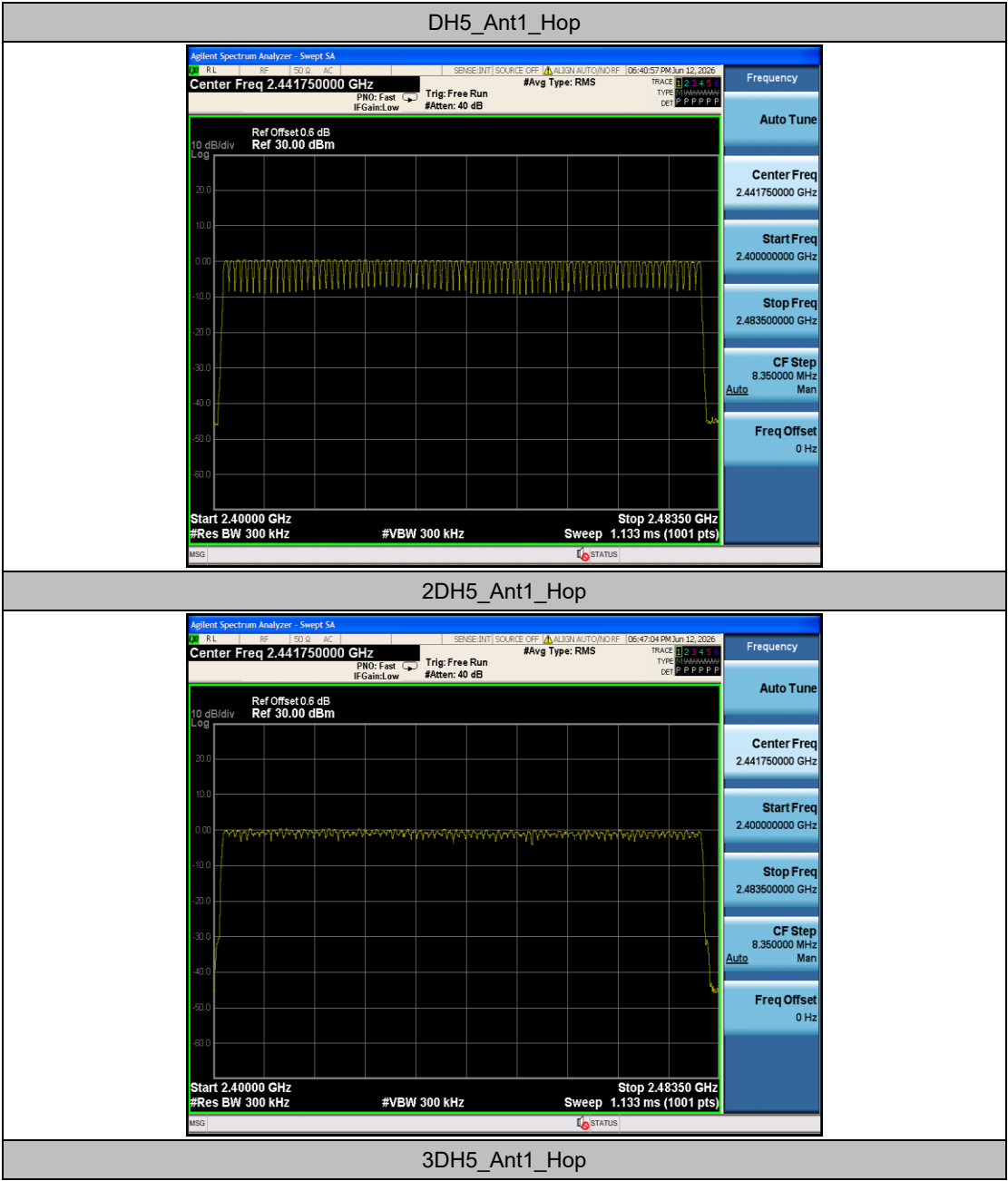


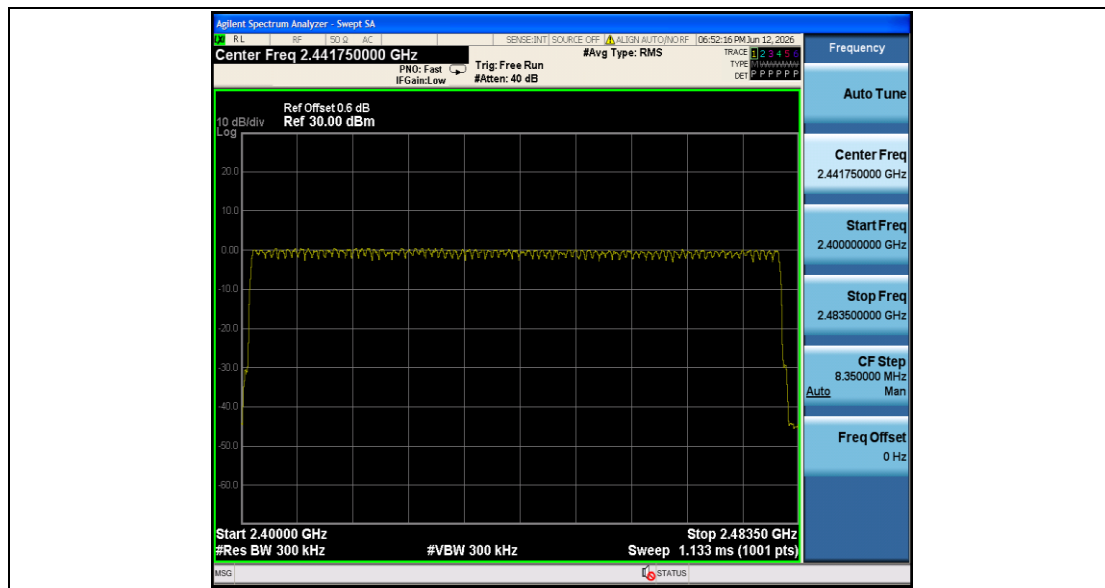
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥ 15	PASS
2DH5	Ant1	Hop	79	≥ 15	PASS
3DH5	Ant1	Hop	79	≥ 15	PASS

Test Graphs



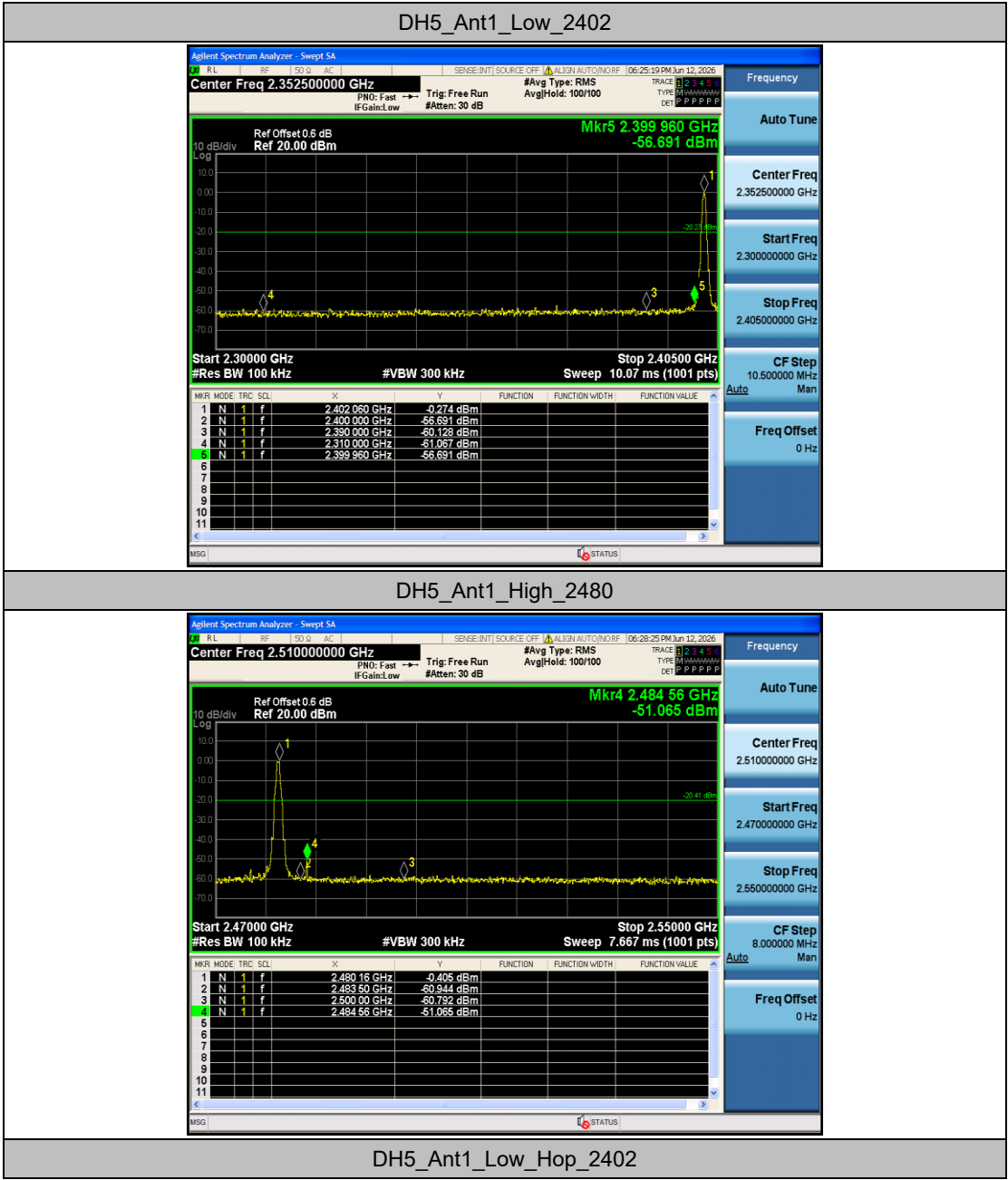


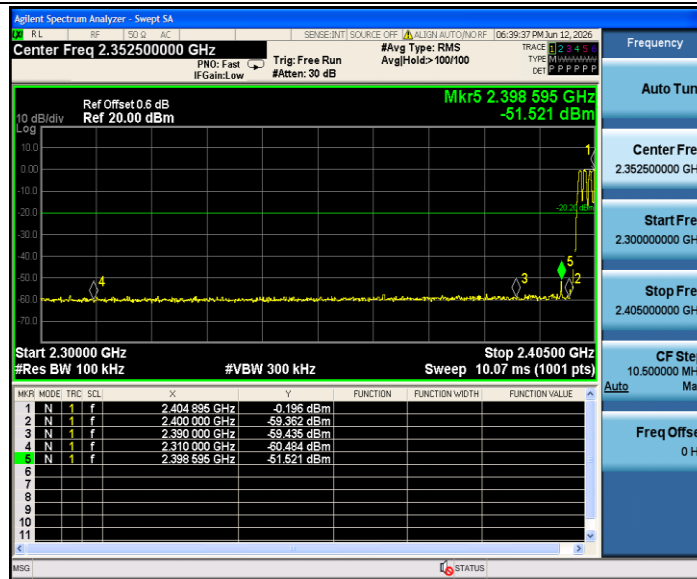
Appendix G: Band edge measurements

Test Result

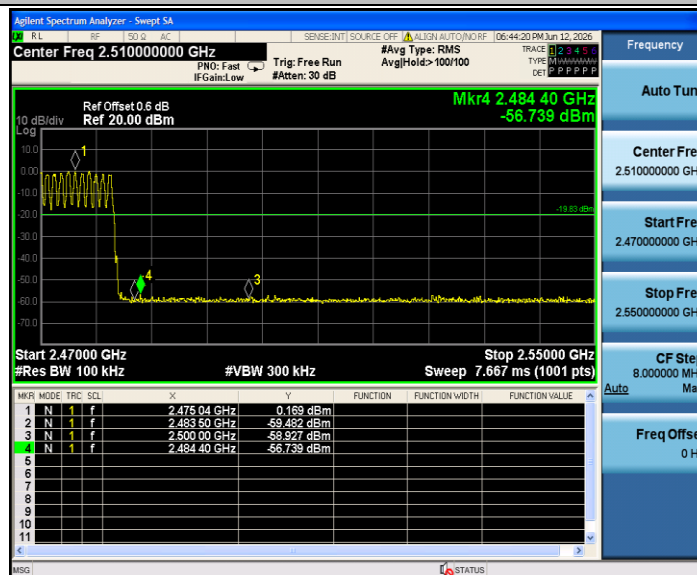
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.27	-56.69	≤ -20.27	PASS
		High	2480	-0.41	-51.07	≤ -20.41	PASS
		Low	Hop_2402	-0.20	-51.52	≤ -20.2	PASS
		High	Hop_2480	0.17	-56.74	≤ -19.83	PASS
2DH5	Ant1	Low	2402	-3.41	-55.19	≤ -23.41	PASS
		High	2480	-5.32	-56.66	≤ -25.32	PASS
		Low	Hop_2402	-0.37	-52.46	≤ -20.37	PASS
		High	Hop_2480	-3.73	-57.14	≤ -23.73	PASS
3DH5	Ant1	Low	2402	-3.38	-57.11	≤ -23.38	PASS
		High	2480	-4.37	-57.91	≤ -24.37	PASS
		Low	Hop_2402	-1.27	-50.2	≤ -21.27	PASS
		High	Hop_2480	-0.59	-57.72	≤ -20.59	PASS

Test Graphs

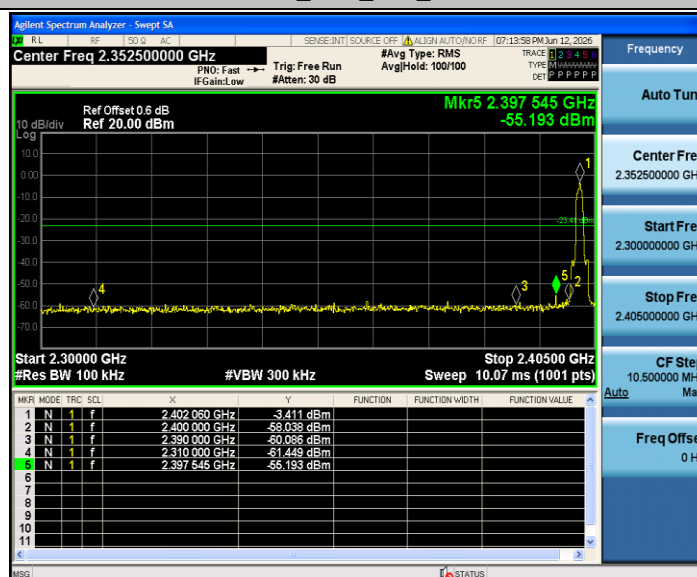




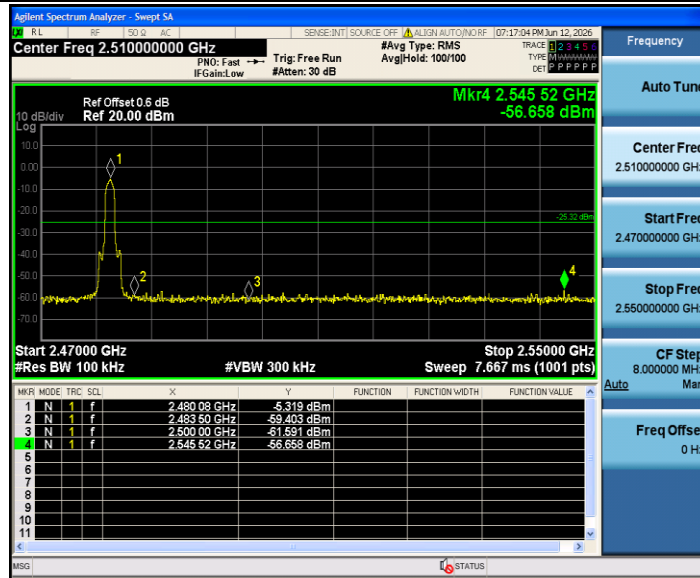
DH5_Ant1_High_Hop_2480



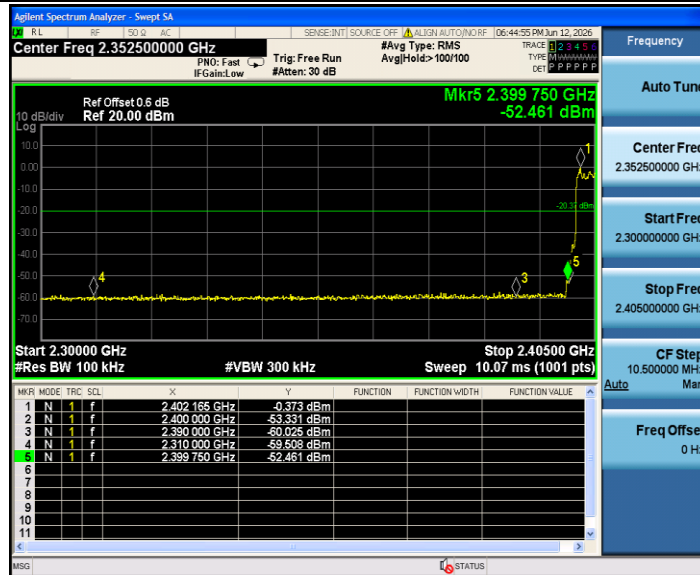
2DH5_Ant1_Low_2402



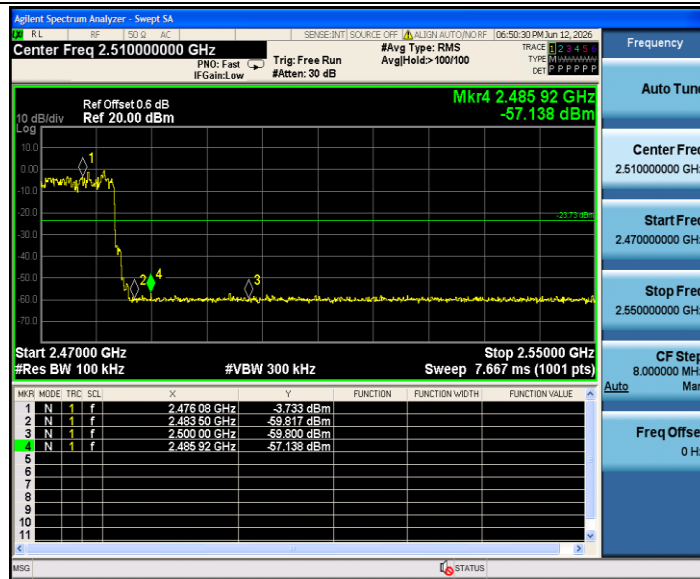
2DH5_Ant1_High_2480



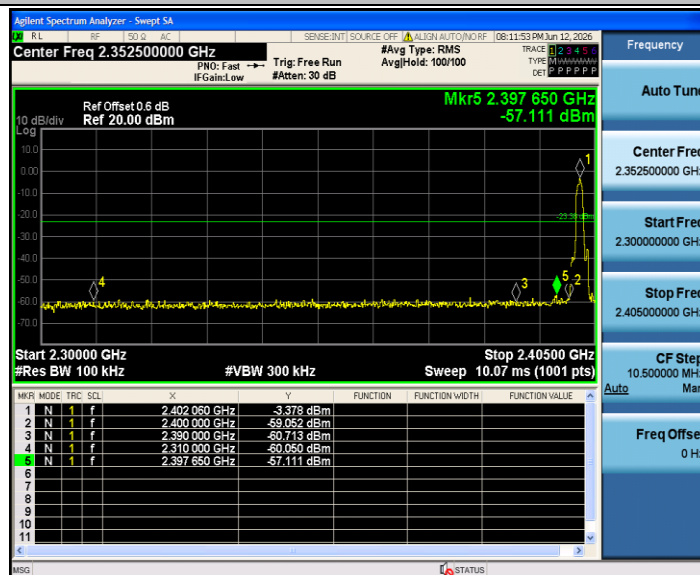
2DH5_Ant1_Low_Hop_2402



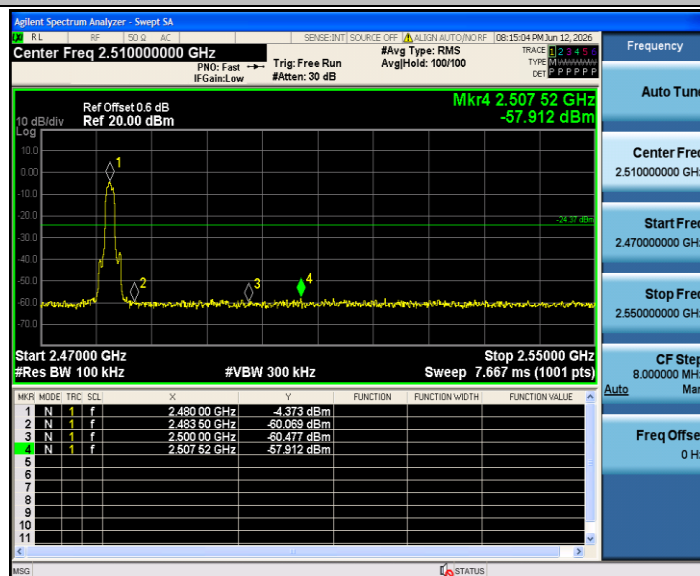
2DH5_Ant1_High_Hop_2480



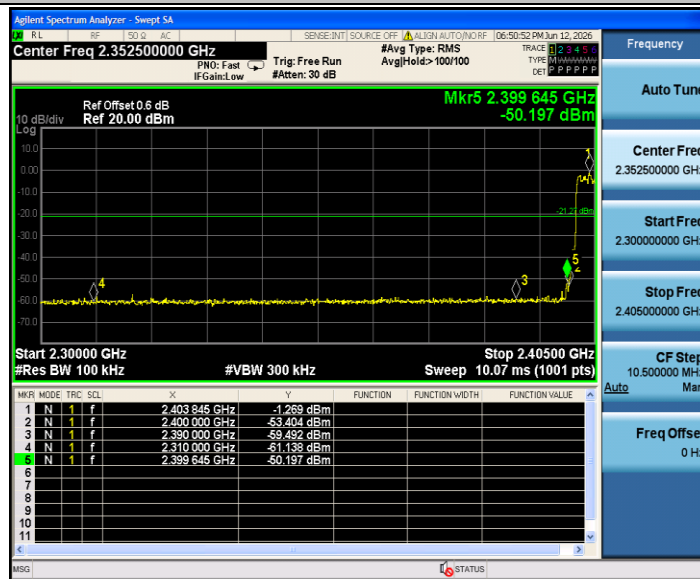
3DH5_Ant1_Low_2402



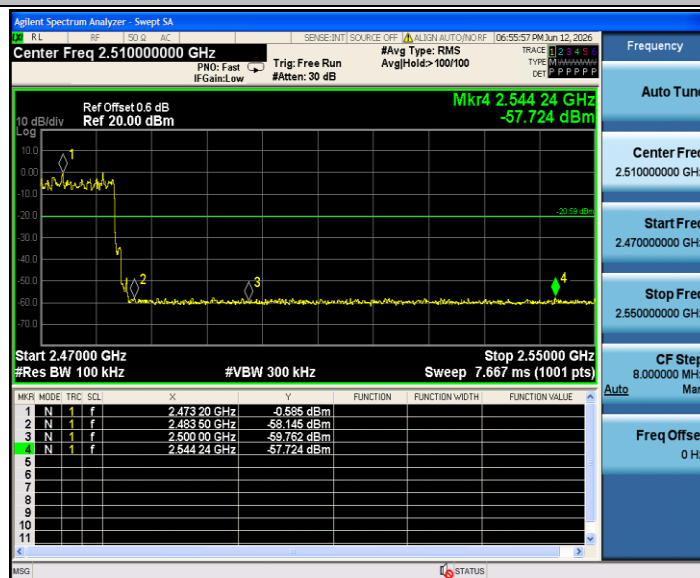
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

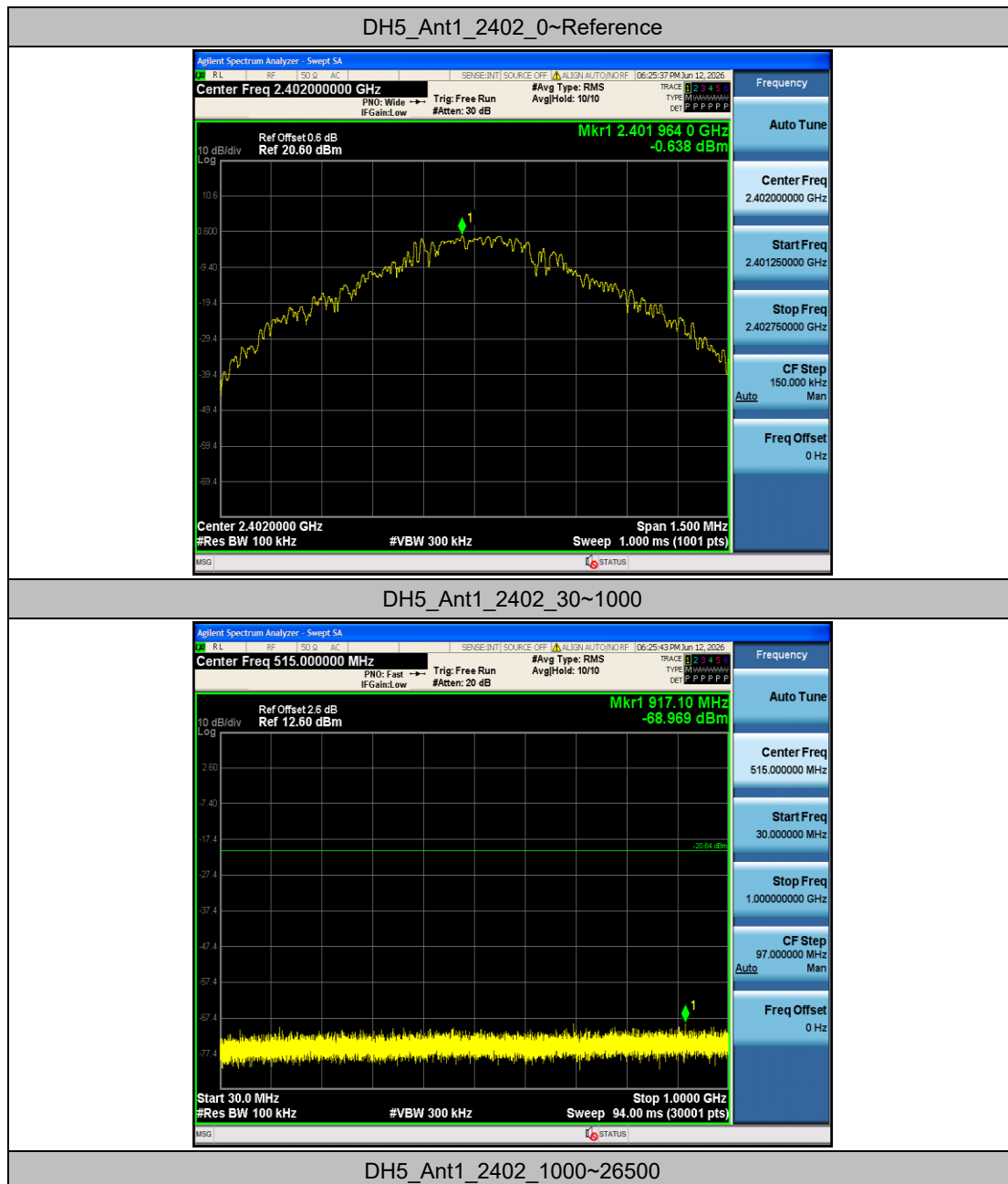


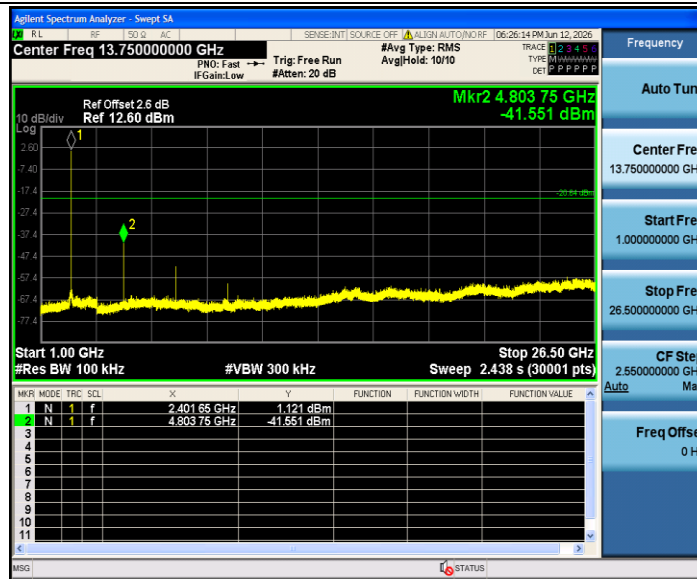
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.64	-0.64	---	PASS
			30~1000	-0.64	-68.97	≤-20.64	PASS
			1000~26500	-0.64	-41.55	≤-20.64	PASS
		2441	Reference	-0.81	-0.81	---	PASS
			30~1000	-0.81	-68.07	≤-20.81	PASS
			1000~26500	-0.81	-42.47	≤-20.81	PASS
		2480	Reference	-0.98	-0.98	---	PASS
			30~1000	-0.98	-69.47	≤-20.98	PASS
			1000~26500	-0.98	-41.08	≤-20.98	PASS
2DH5	Ant1	2402	Reference	-4.60	-4.60	---	PASS
			30~1000	-4.60	-68.65	≤-24.6	PASS
			1000~26500	-4.60	-47.59	≤-24.6	PASS
		2441	Reference	-4.87	-4.87	---	PASS
			30~1000	-4.87	-68.46	≤-24.87	PASS
			1000~26500	-4.87	-47.17	≤-24.87	PASS
		2480	Reference	-4.82	-4.82	---	PASS
			30~1000	-4.82	-68.82	≤-24.82	PASS
			1000~26500	-4.82	-45.69	≤-24.82	PASS
3DH5	Ant1	2402	Reference	-4.54	-4.54	---	PASS
			30~1000	-4.54	-68.68	≤-24.54	PASS
			1000~26500	-4.54	-46.33	≤-24.54	PASS
		2441	Reference	-5.05	-5.05	---	PASS
			30~1000	-5.05	-69.06	≤-25.05	PASS
			1000~26500	-5.05	-44.67	≤-25.05	PASS
		2480	Reference	-5.35	-5.35	---	PASS
			30~1000	-5.35	-69.19	≤-25.35	PASS
			1000~26500	-5.35	-46.83	≤-25.35	PASS

Test Graphs

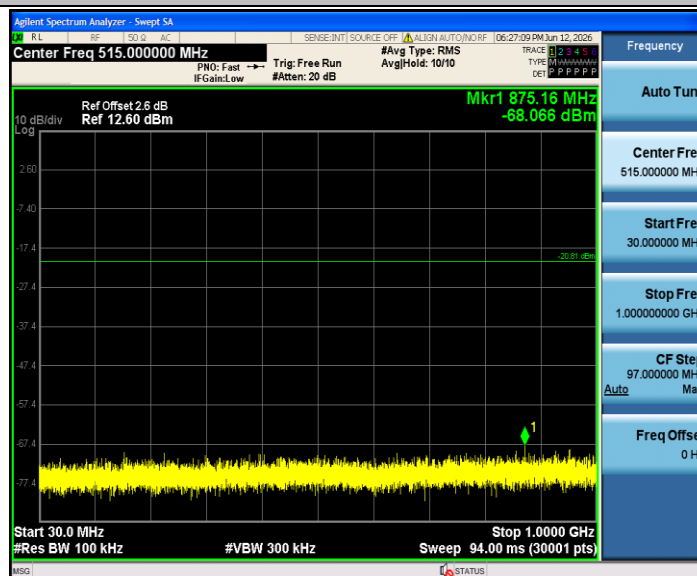




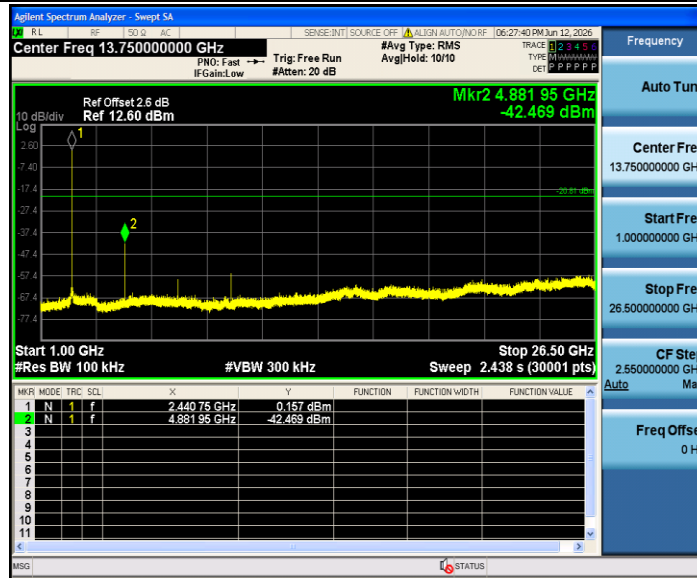
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



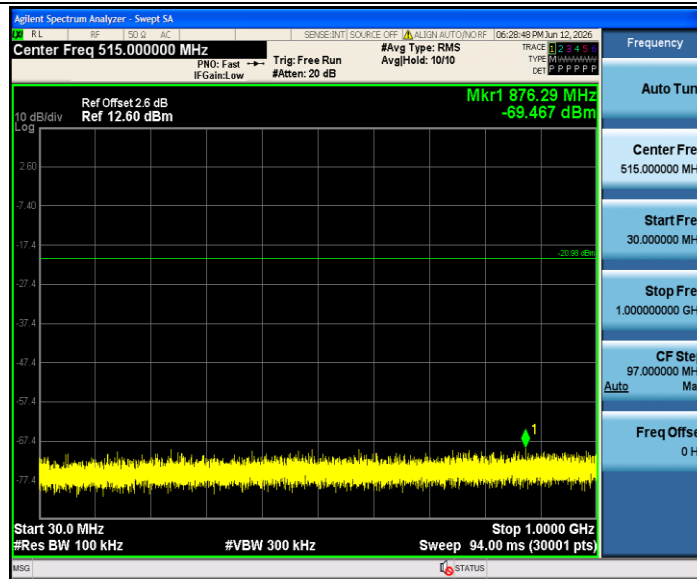
DH5_Ant1_2441_1000~26500



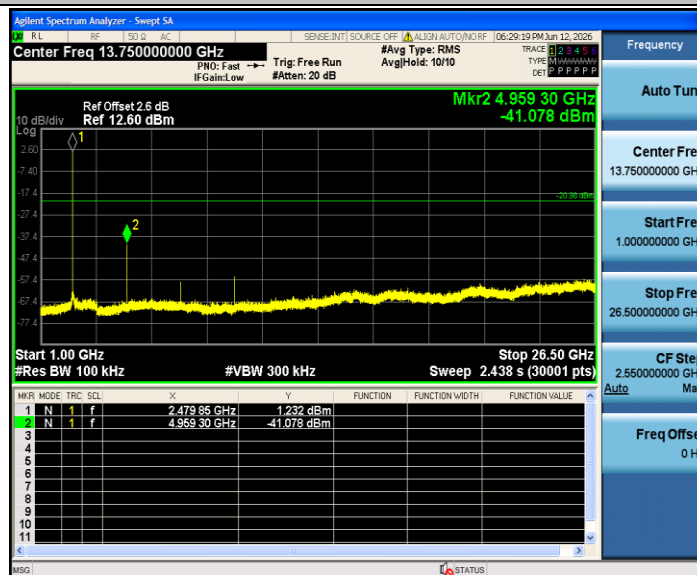
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

