

FCC Appendix RF Test Data for BT

FCC ID : 2BYJW-W5K8Z

Company : GAINWISE HK CO., LIMITED

EUT : MINI PC

Model Number : E1 PRO

Report No. : CTA26081001001

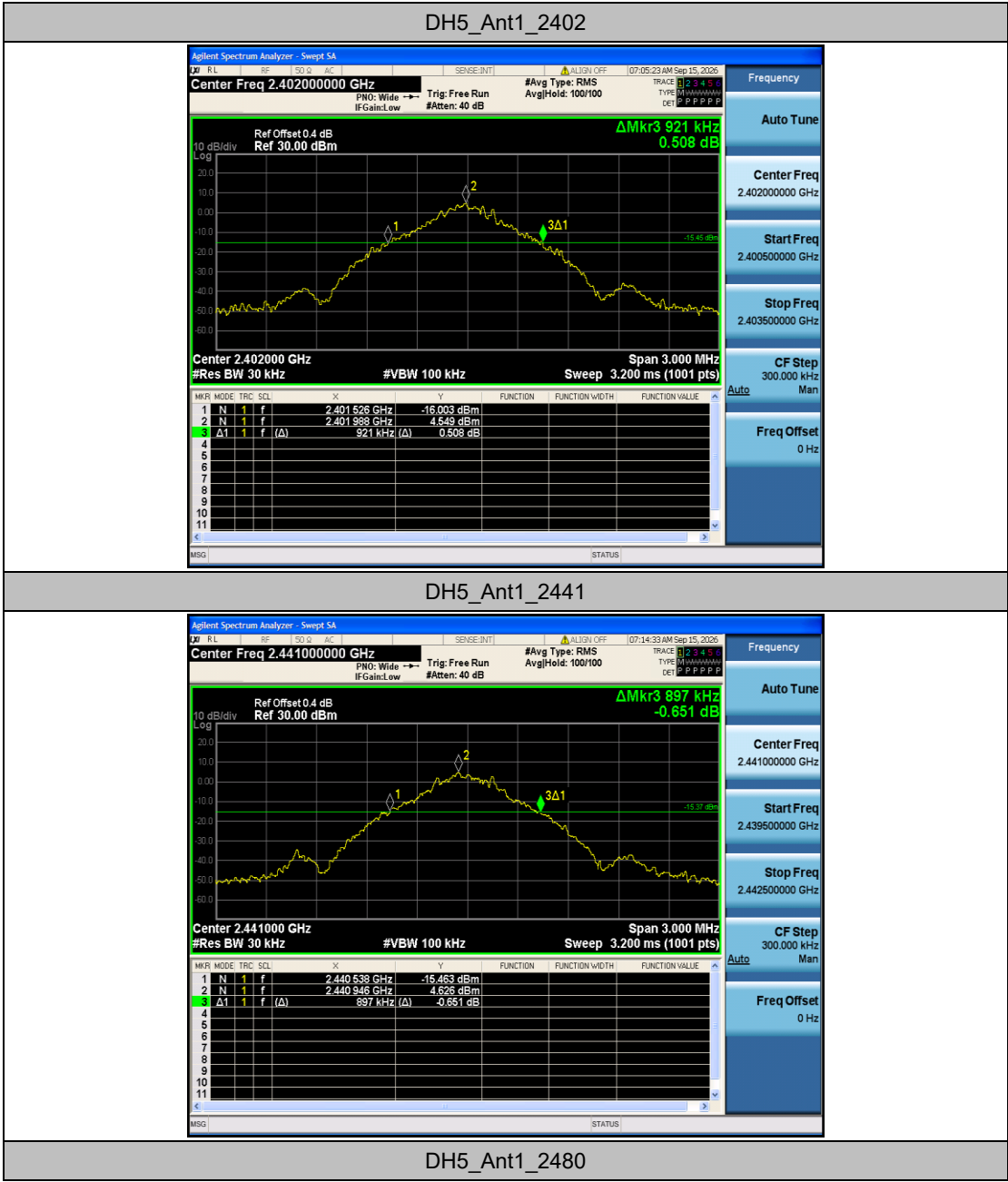
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.921	2401.526	2402.447	---	---
		2441	0.897	2440.538	2441.435	---	---
		2480	0.945	2479.517	2480.462	---	---
2DH5	Ant1	2402	1.305	2401.325	2402.630	---	---
		2441	1.335	2440.313	2441.648	---	---
		2480	1.314	2479.319	2480.633	---	---
3DH5	Ant1	2402	1.335	2401.307	2402.642	---	---
		2441	1.323	2440.322	2441.645	---	---
		2480	1.323	2479.316	2480.639	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



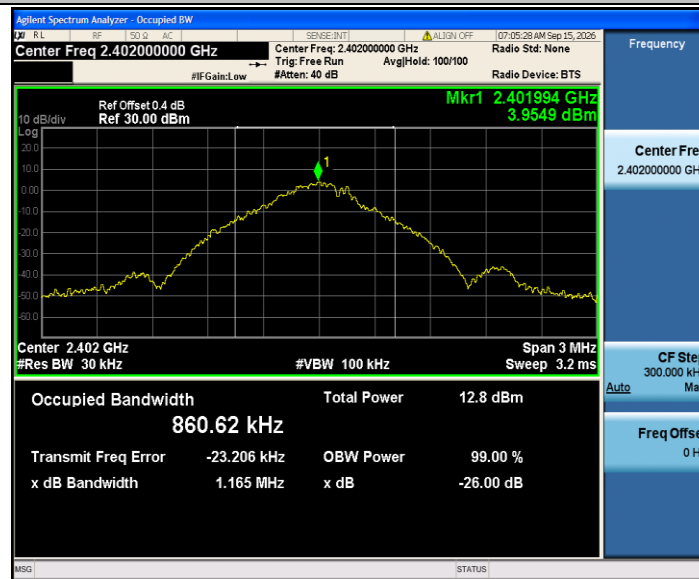
Appendix B: Occupied Channel Bandwidth

Test Result

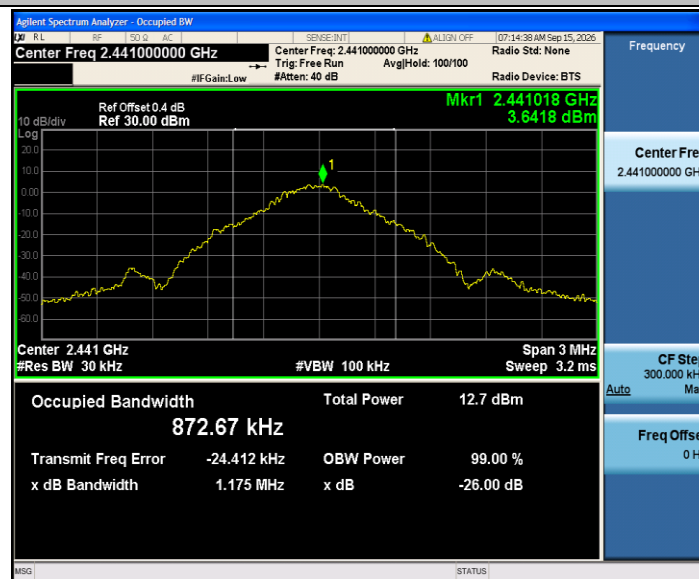
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86062	2401.5465	2402.4071	---	---
		2441	0.87267	2440.5393	2441.4119	---	---
		2480	0.85886	2479.5544	2480.4133	---	---
2DH5	Ant1	2402	1.2051	2401.3767	2402.5818	---	---
		2441	1.1829	2440.3950	2441.5779	---	---
		2480	1.1943	2479.3815	2480.5758	---	---
3DH5	Ant1	2402	1.1978	2401.3795	2402.5773	---	---
		2441	1.1887	2440.3838	2441.5725	---	---
		2480	1.2063	2479.3705	2480.5768	---	---

Test Graphs

DH5_Ant1_2402



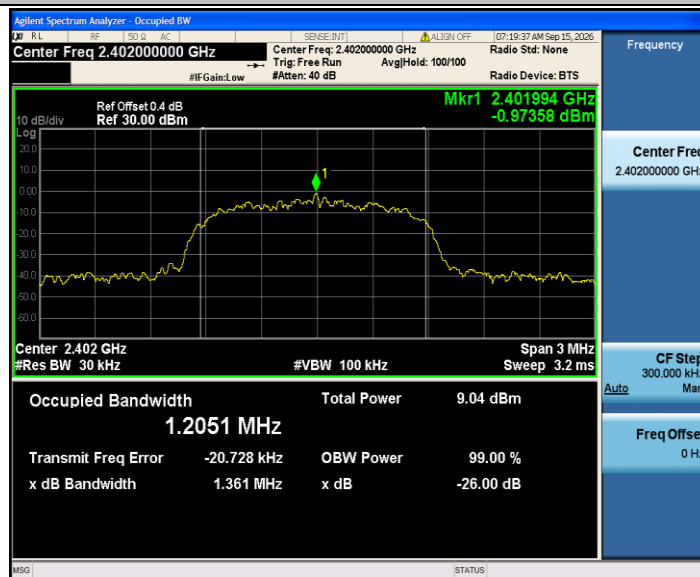
DH5_Ant1_2441



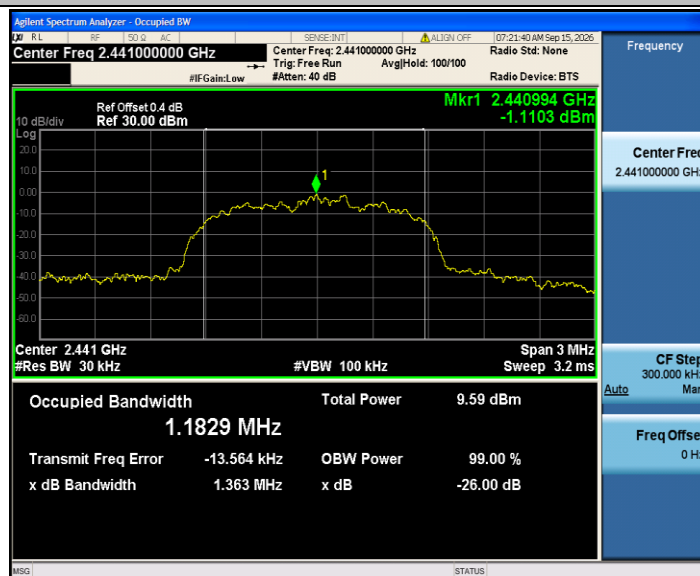
DH5_Ant1_2480



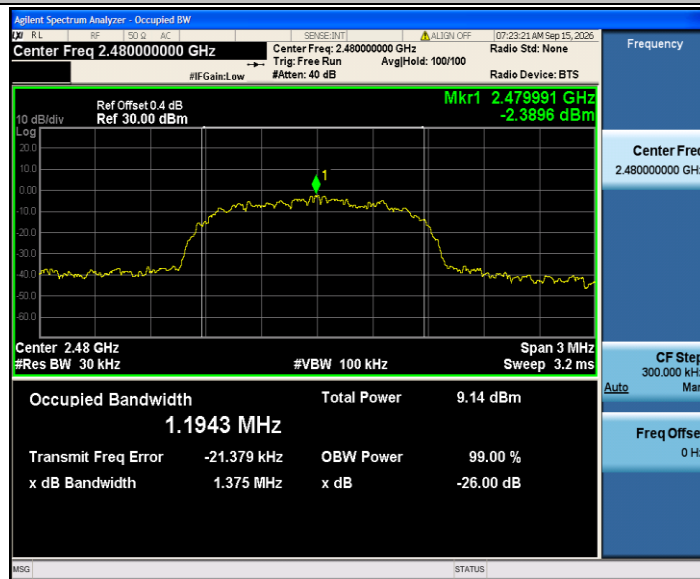
2DH5_Ant1_2402



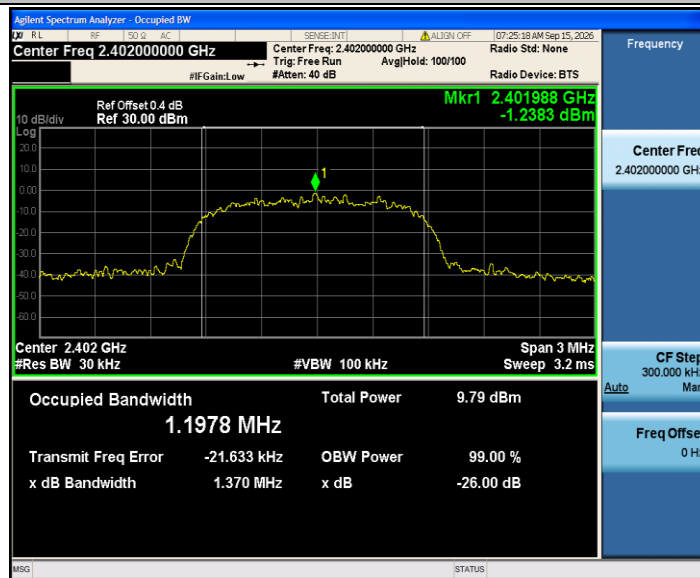
2DH5_Ant1_2441



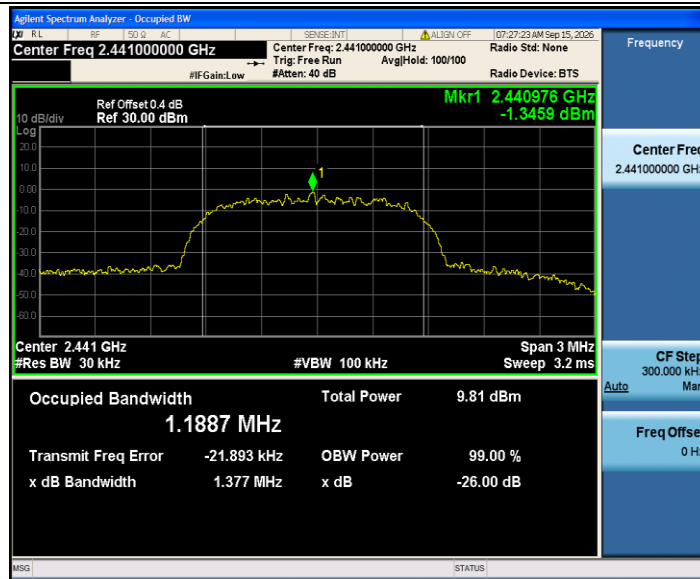
2DH5_Ant1_2480



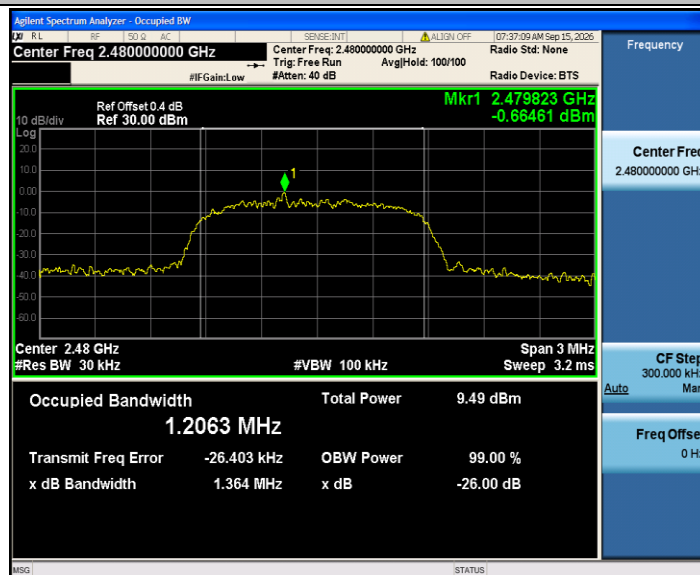
3DH5_Ant1_2402



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	5.88	≤20.97	PASS
		2441	5.78	≤20.97	PASS
		2480	5.36	≤20.97	PASS
2DH5	Ant1	2402	5.91	≤20.97	PASS
		2441	5.78	≤20.97	PASS
		2480	5.31	≤20.97	PASS
3DH5	Ant1	2402	5.90	≤20.97	PASS
		2441	5.76	≤20.97	PASS
		2480	5.69	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.002	≥ 0.945	PASS
2DH5	Ant1	Hop	1.014	≥ 0.890	PASS
3DH5	Ant1	Hop	1.162	≥ 0.890	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



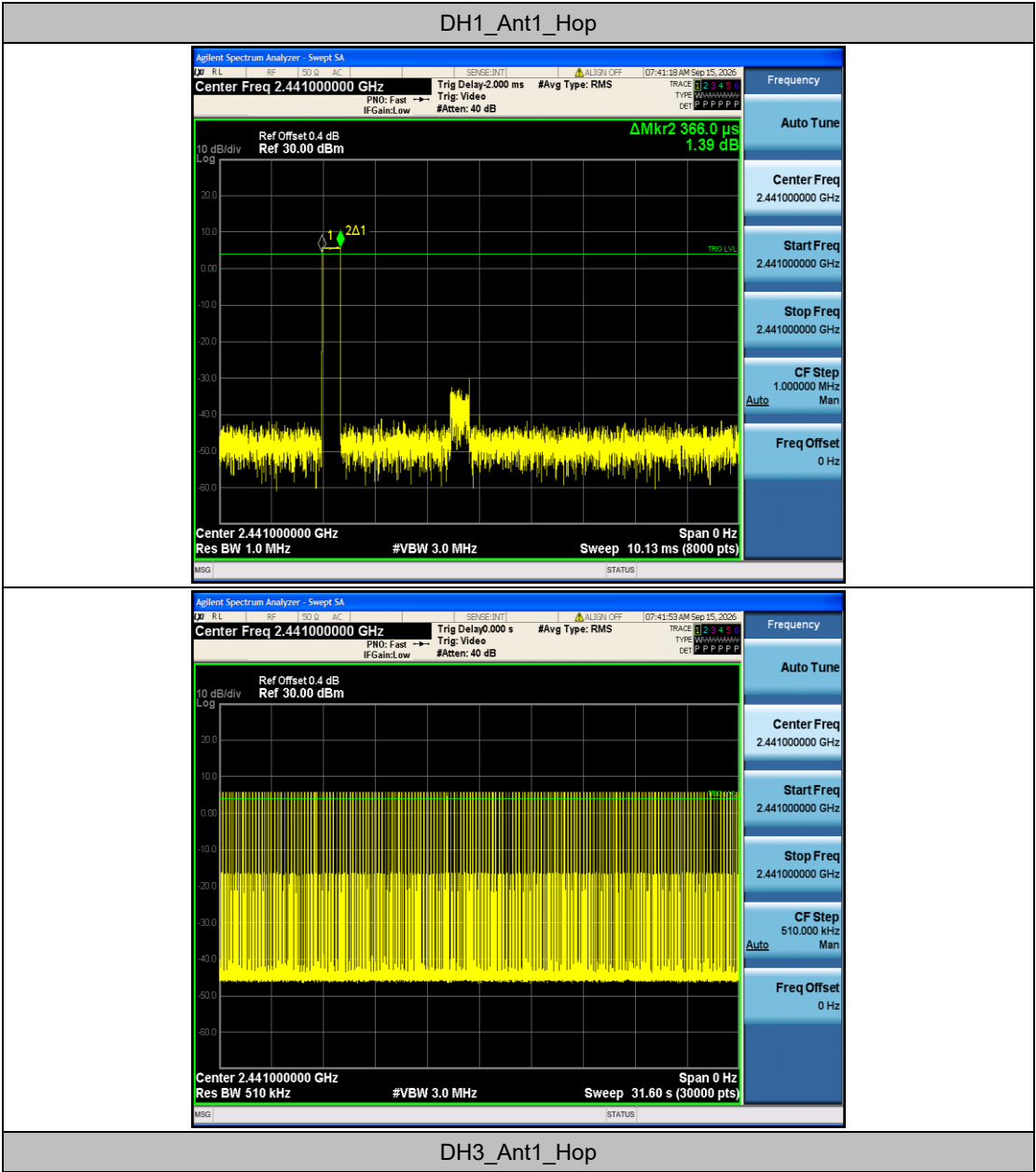
3DH5_Ant1_Hop

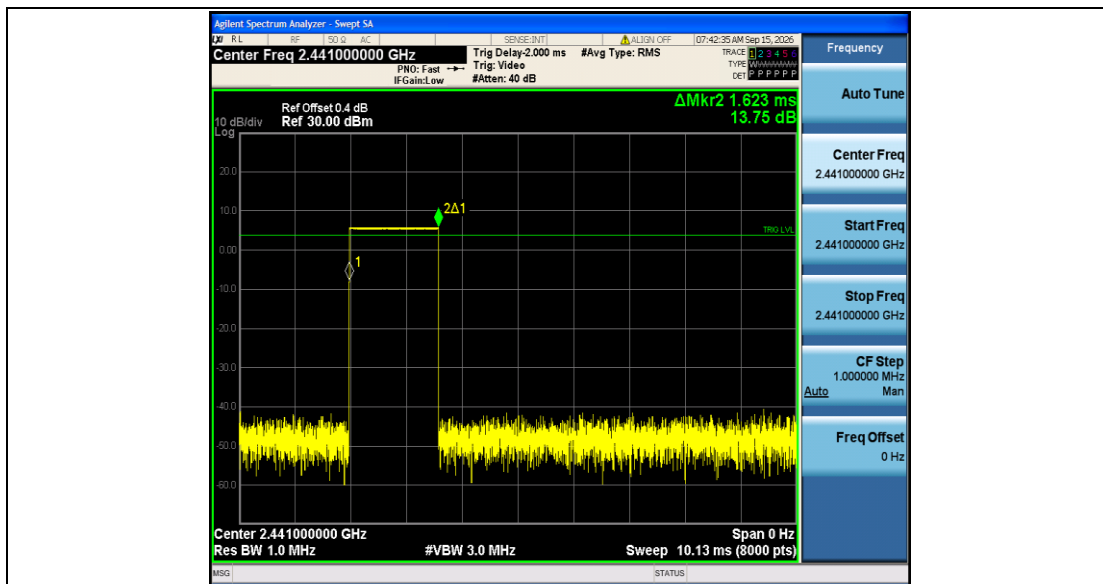
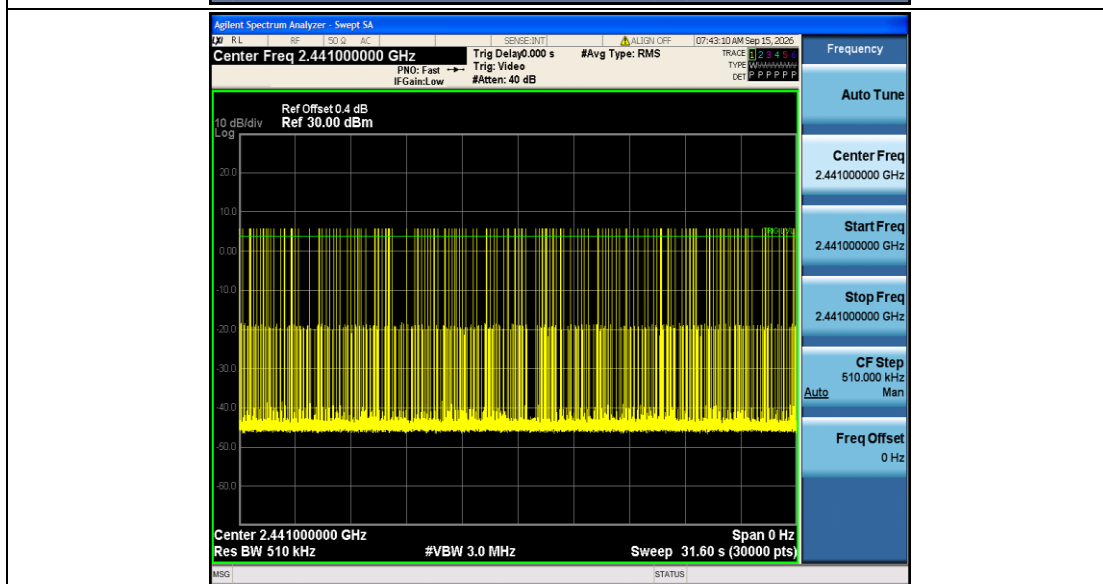
Appendix E: Time of occupancy

Test Result

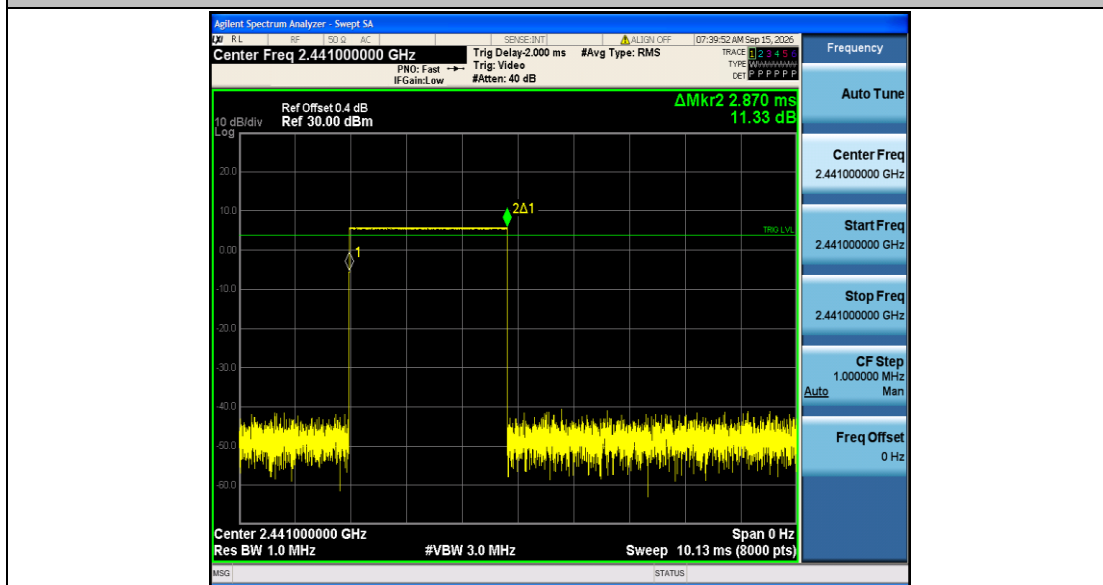
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.366	320	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.623	159	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.870	109	0.313	≤0.4	PASS
2DH1	Ant1	Hop	0.376	319	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.629	160	0.261	≤0.4	PASS
2DH5	Ant1	Hop	2.877	88	0.253	≤0.4	PASS
3DH1	Ant1	Hop	0.376	320	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.628	162	0.264	≤0.4	PASS
3DH5	Ant1	Hop	2.878	111	0.319	≤0.4	PASS

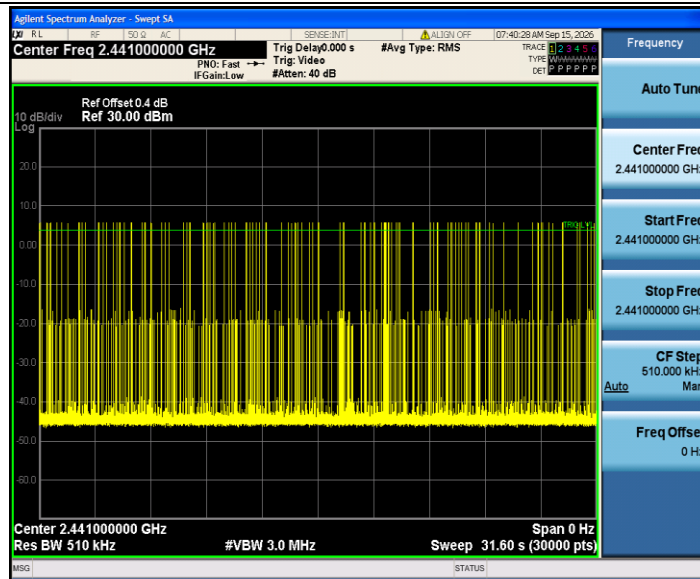
Test Graphs



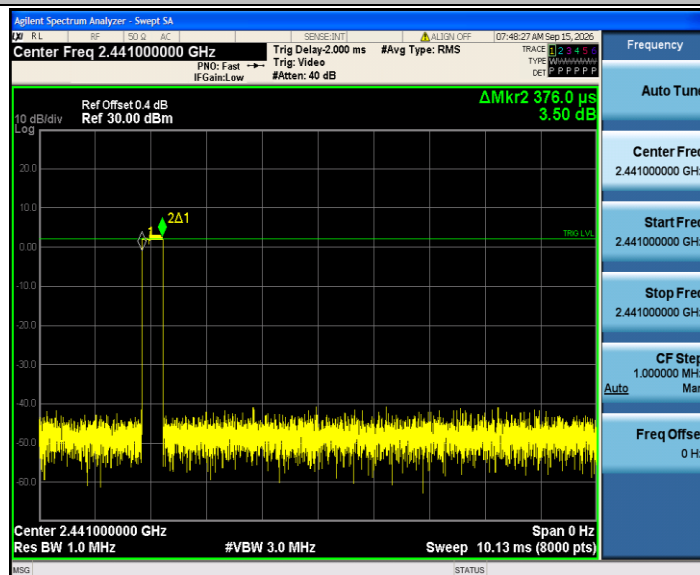
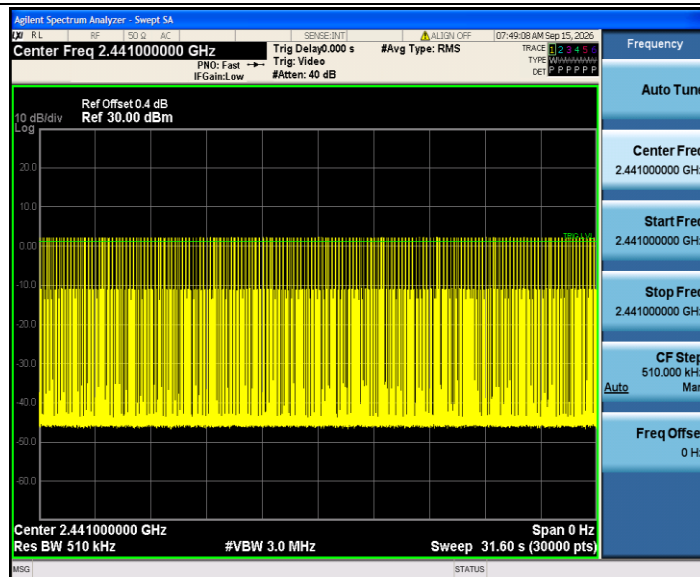


DH5_Ant1_Hop

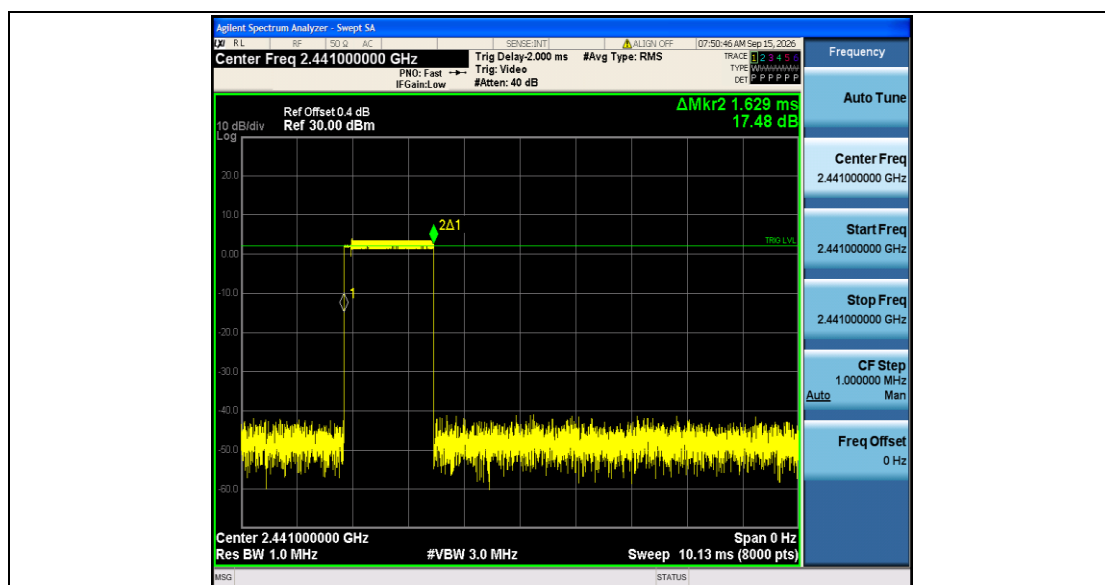
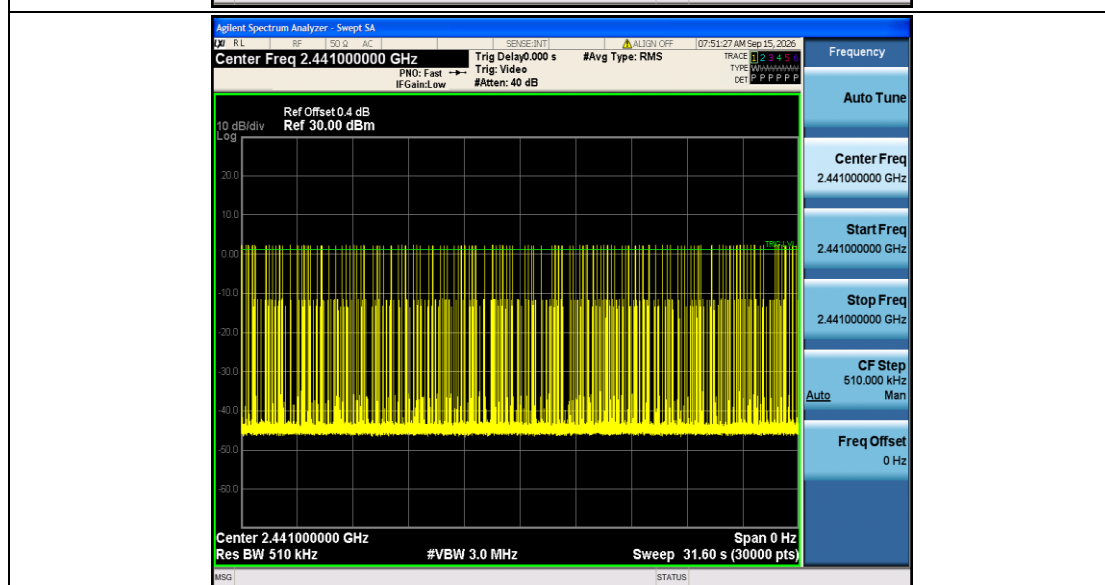




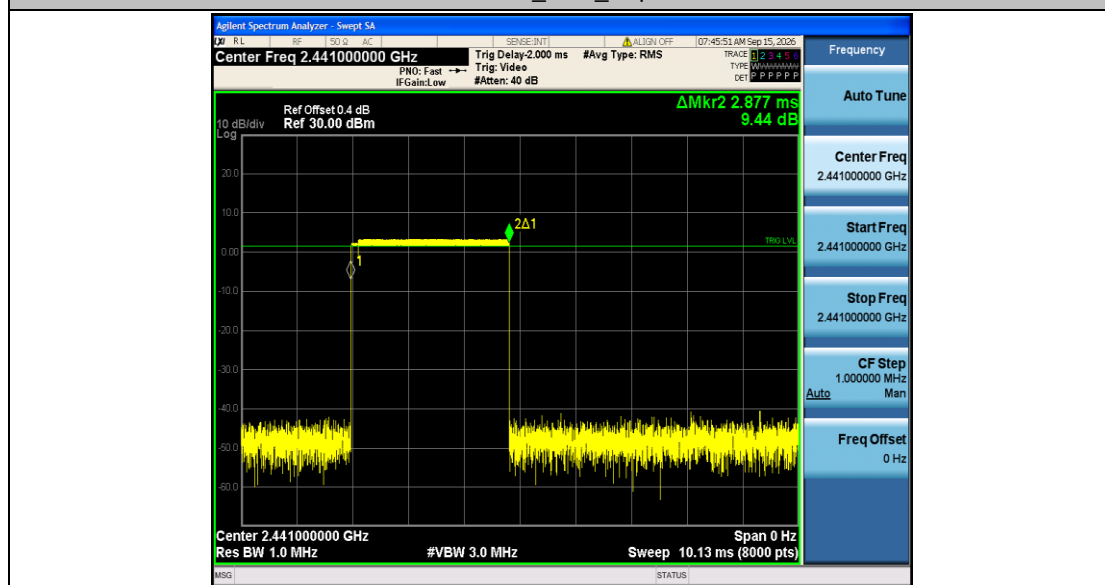
2DH1_Ant1_Hop

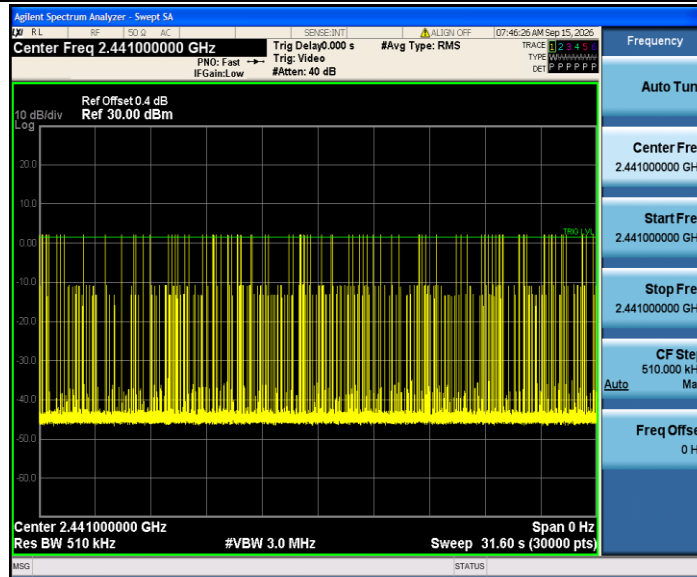


2DH3_Ant1_Hop

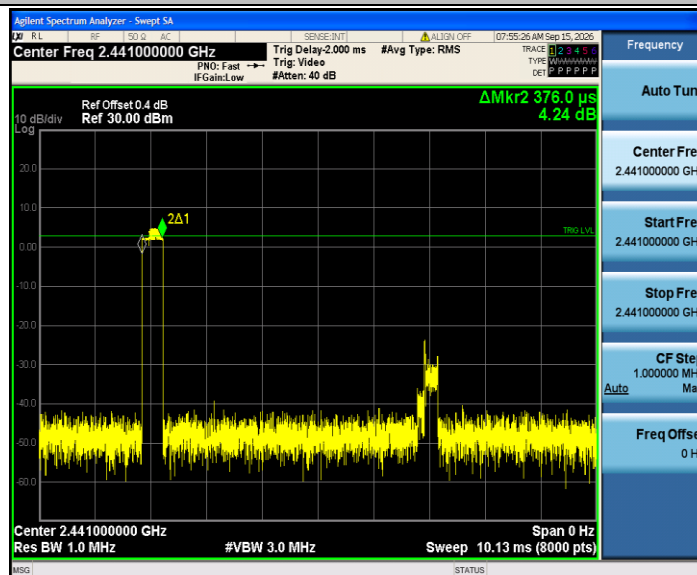
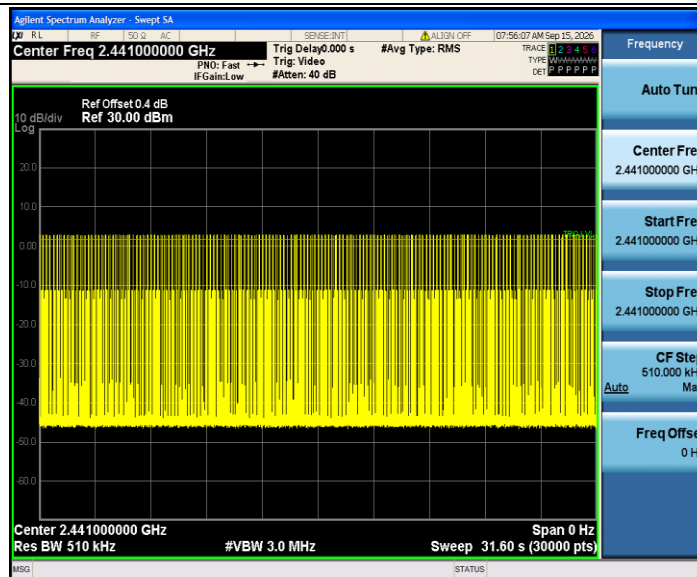


2DH5_Ant1_Hop

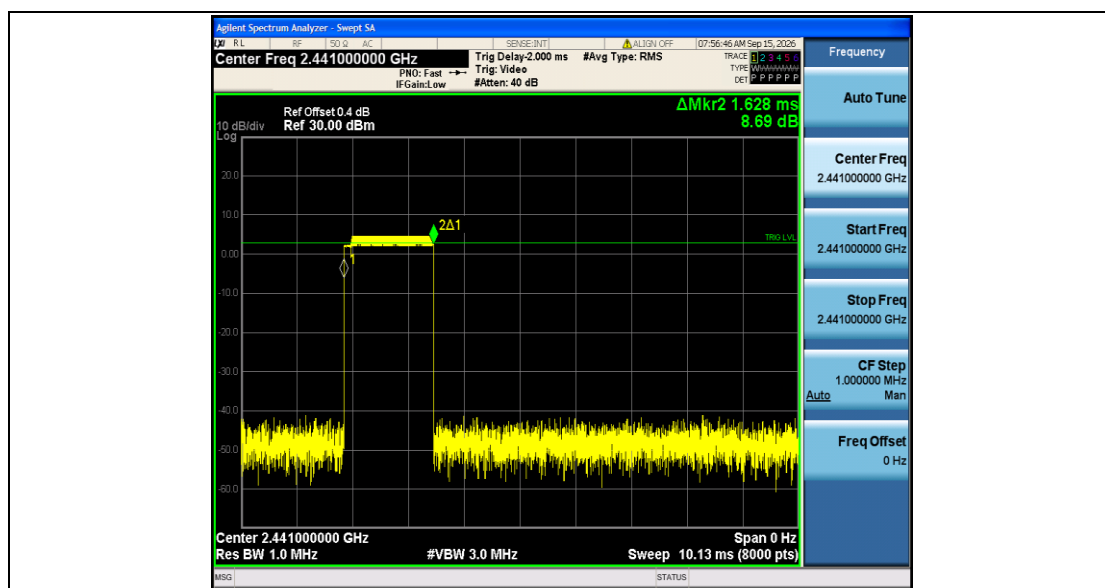
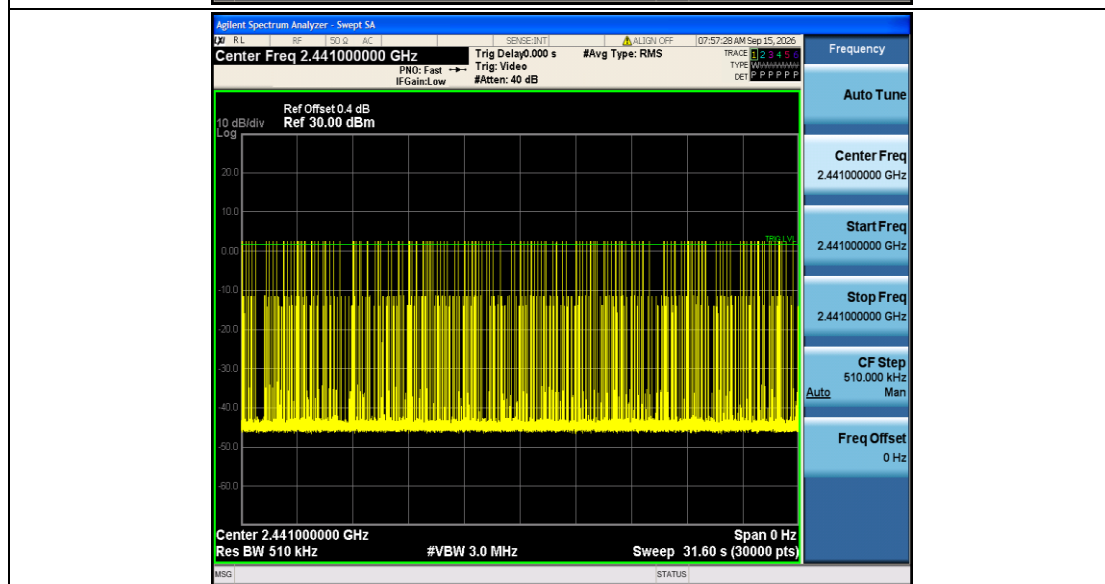




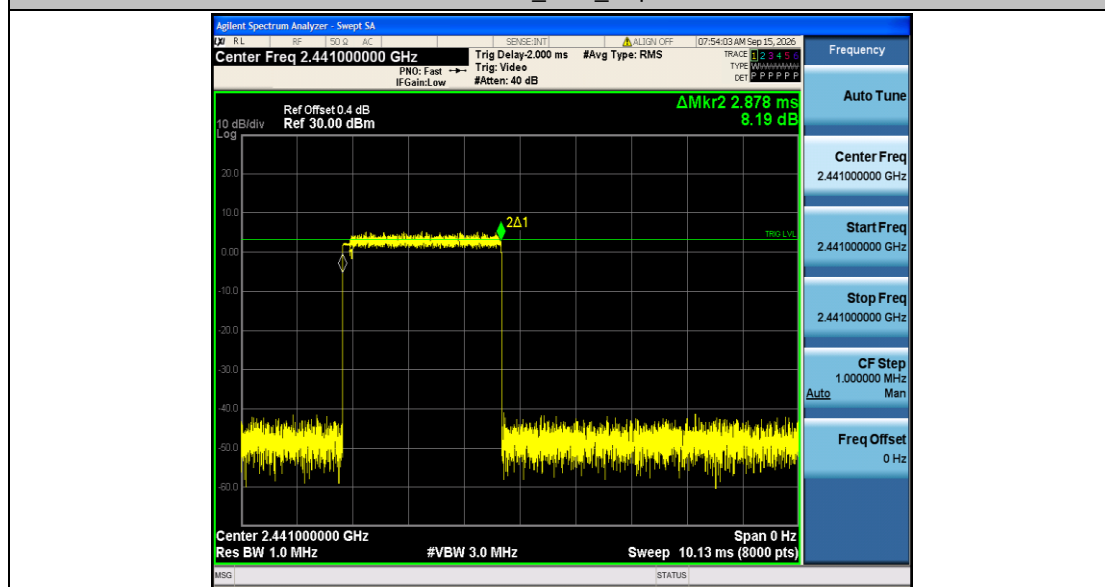
3DH1_Ant1_Hop

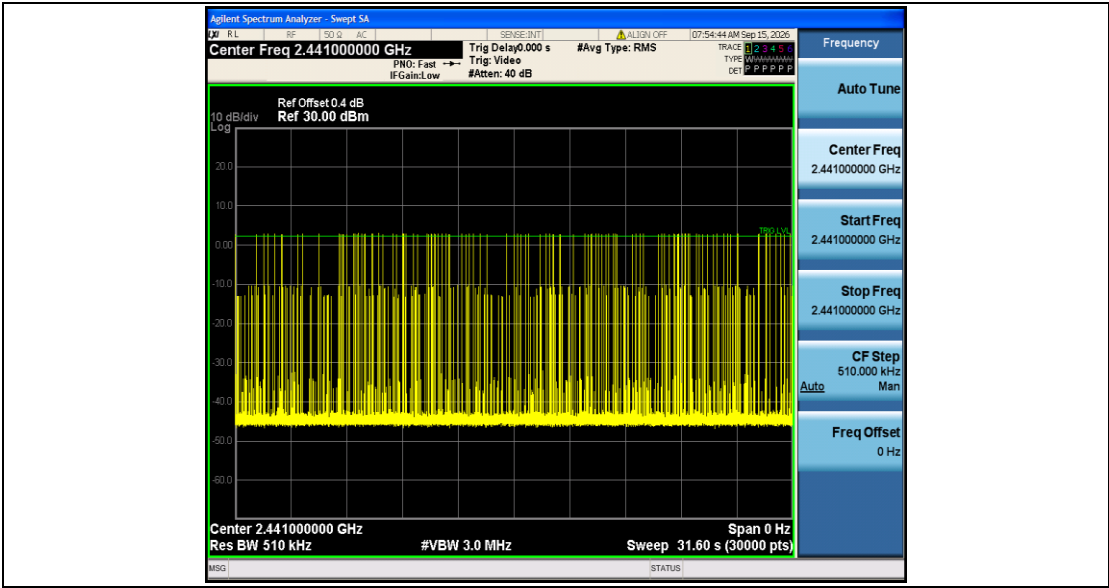


3DH3_Ant1_Hop



3DH5_Ant1_Hop



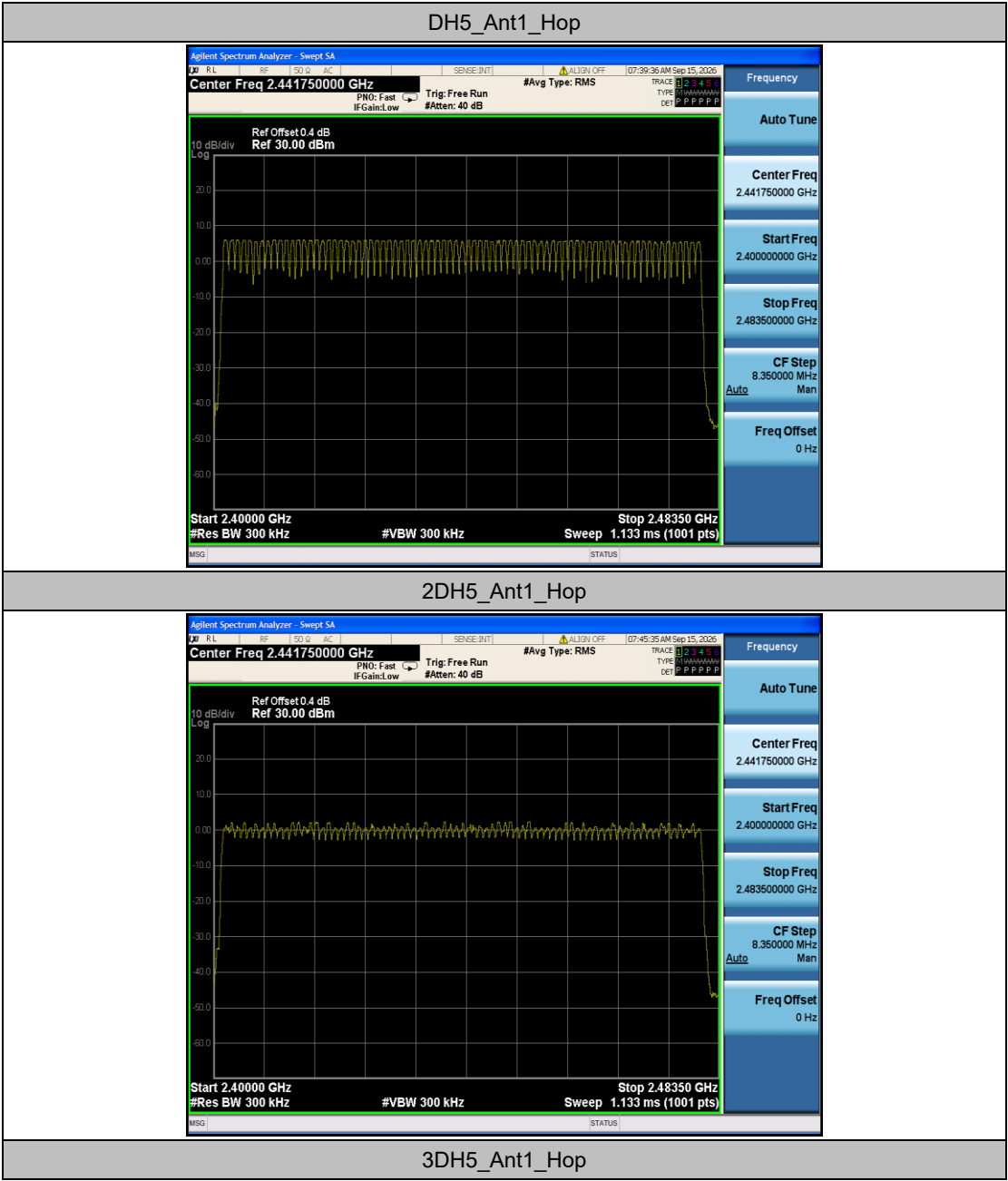


Appendix F: Number of hopping channels

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

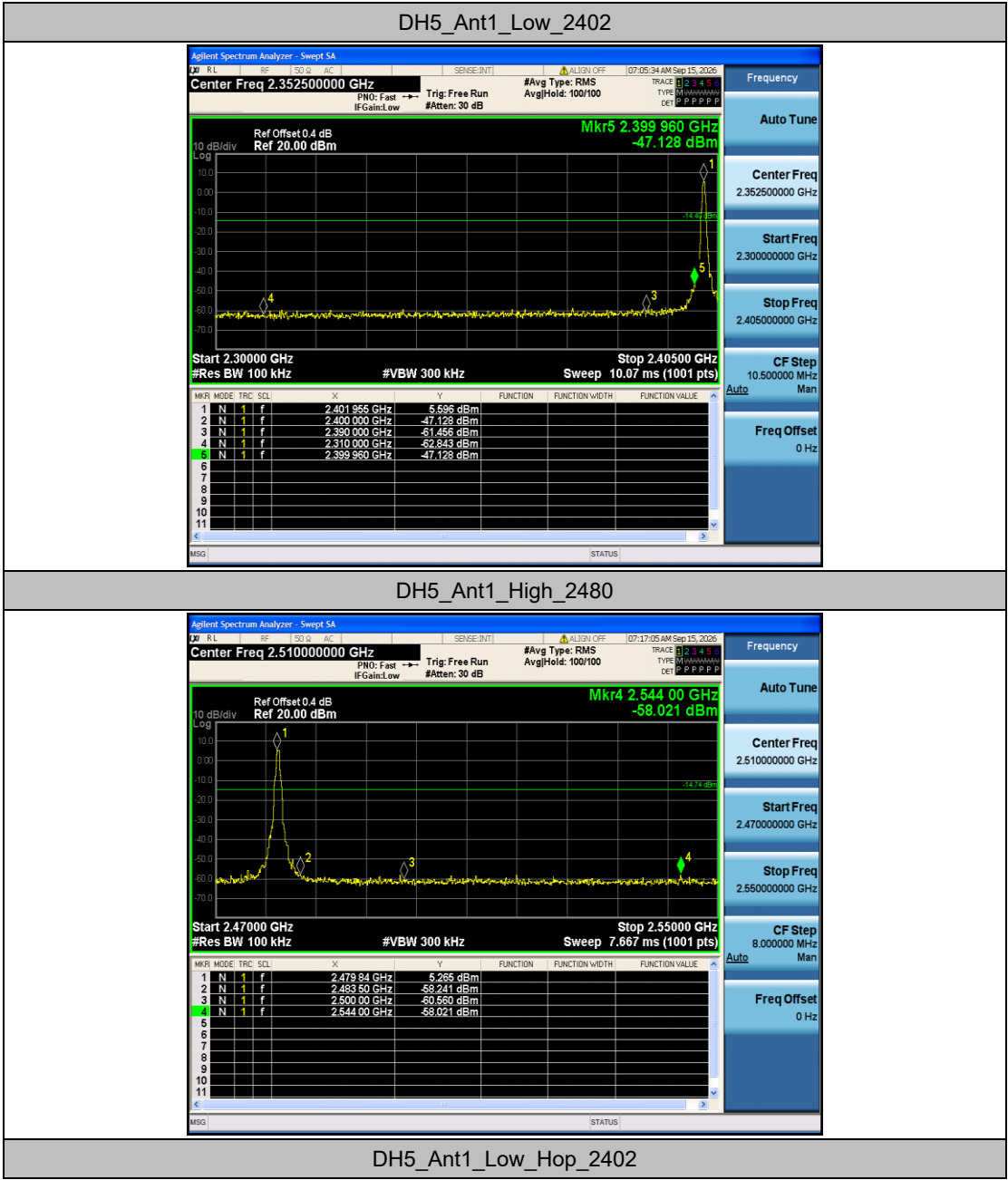


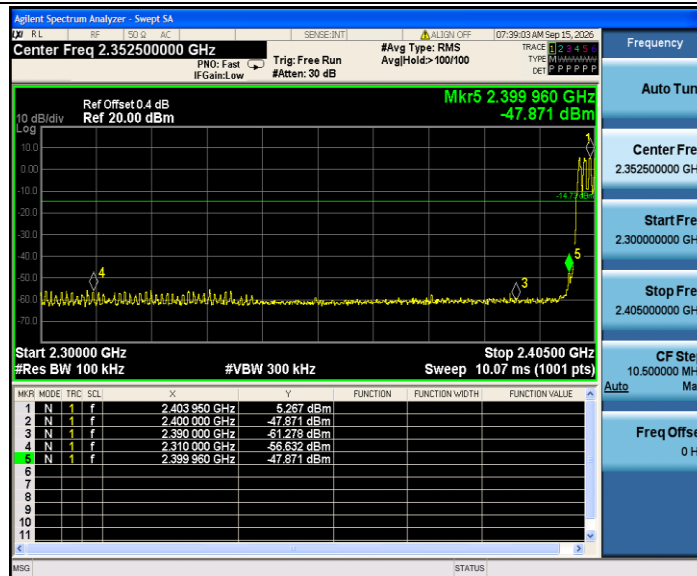
Appendix G: Band edge measurements

Test Result

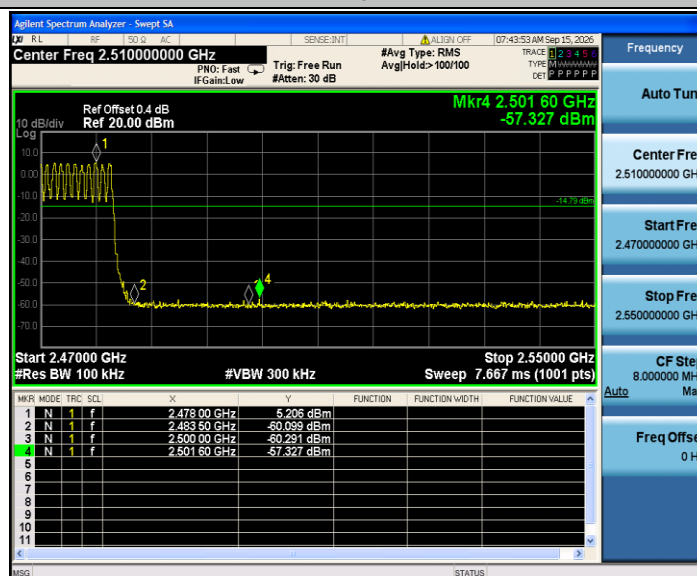
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	5.60	-47.13	≤-14.4	PASS
		High	2480	5.27	-58.02	≤-14.74	PASS
		Low	Hop_2402	5.27	-49.96	≤-14.73	PASS
		High	Hop_2480	5.21	-57.33	≤-14.79	PASS
2DH5	Ant1	Low	2402	0.46	-45.92	≤-19.55	PASS
		High	2480	0.44	-57.14	≤-19.56	PASS
		Low	Hop_2402	-1.74	-49.91	≤-21.74	PASS
		High	Hop_2480	1.58	-57.53	≤-18.42	PASS
3DH5	Ant1	Low	2402	1.18	-46.81	≤-18.82	PASS
		High	2480	1.31	-57.96	≤-18.7	PASS
		Low	Hop_2402	1.24	-54.44	≤-18.76	PASS
		High	Hop_2480	0.07	-58.25	≤-19.93	PASS

Test Graphs

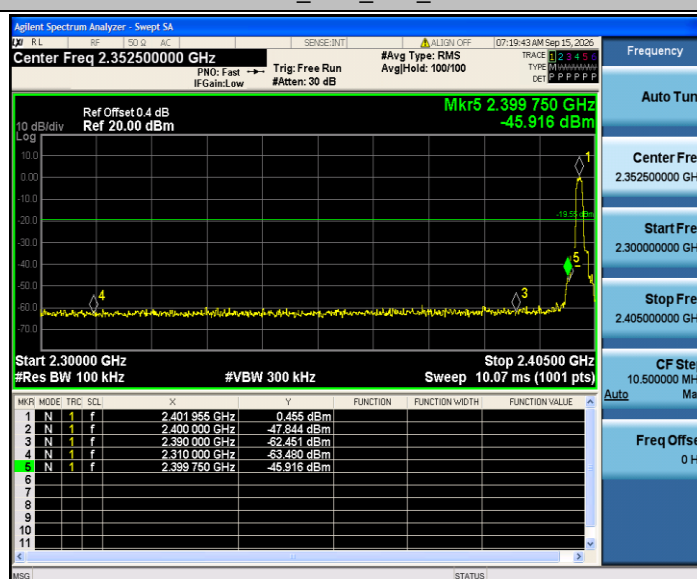




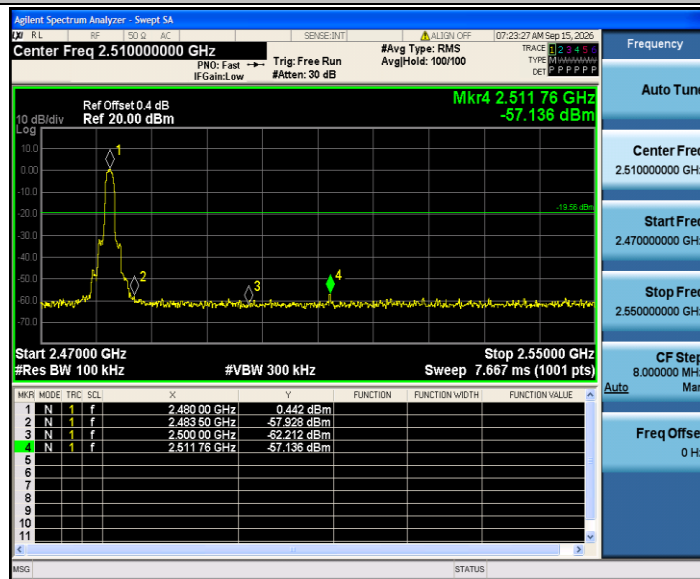
DH5_Ant1_High_Hop_2480



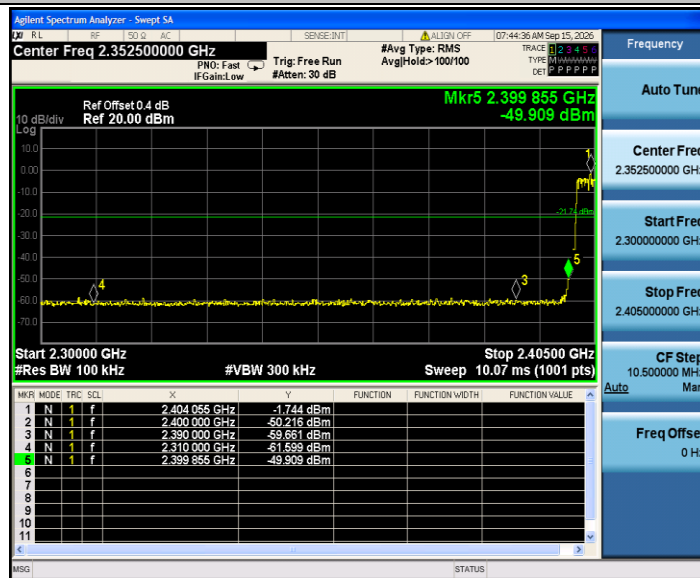
2DH5_Ant1_Low_2402



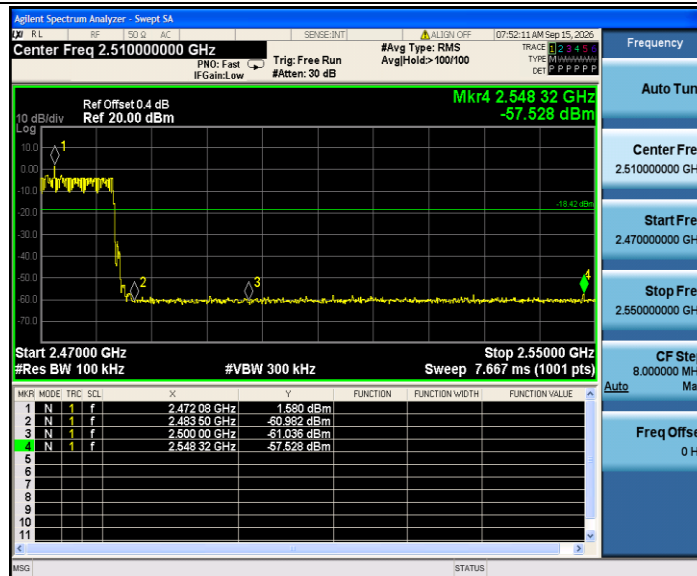
2DH5_Ant1_High_2480



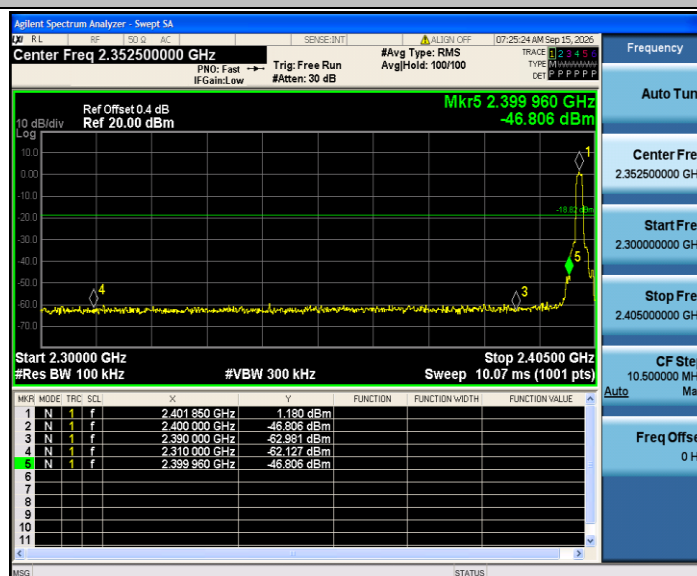
2DH5_Ant1_Low_Hop_2402



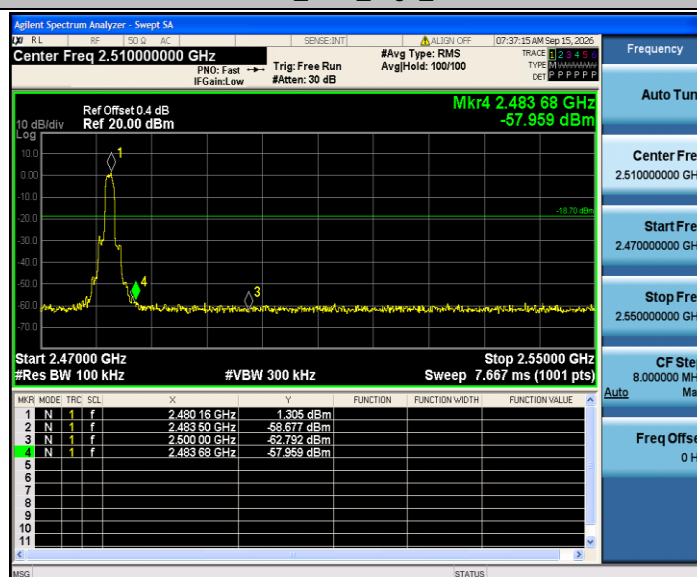
2DH5_Ant1_High_Hop_2480



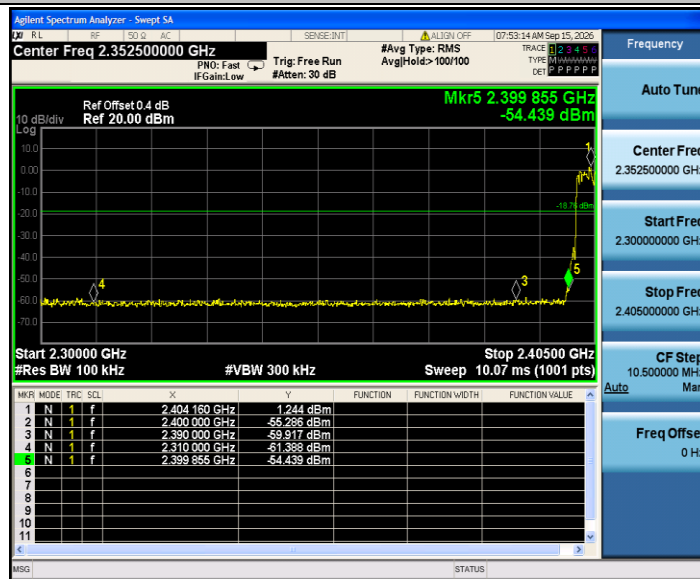
3DH5_Ant1_Low_2402



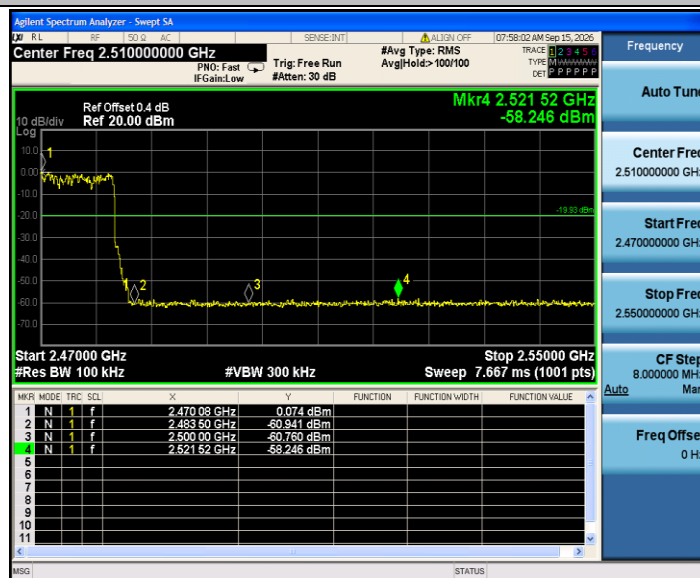
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

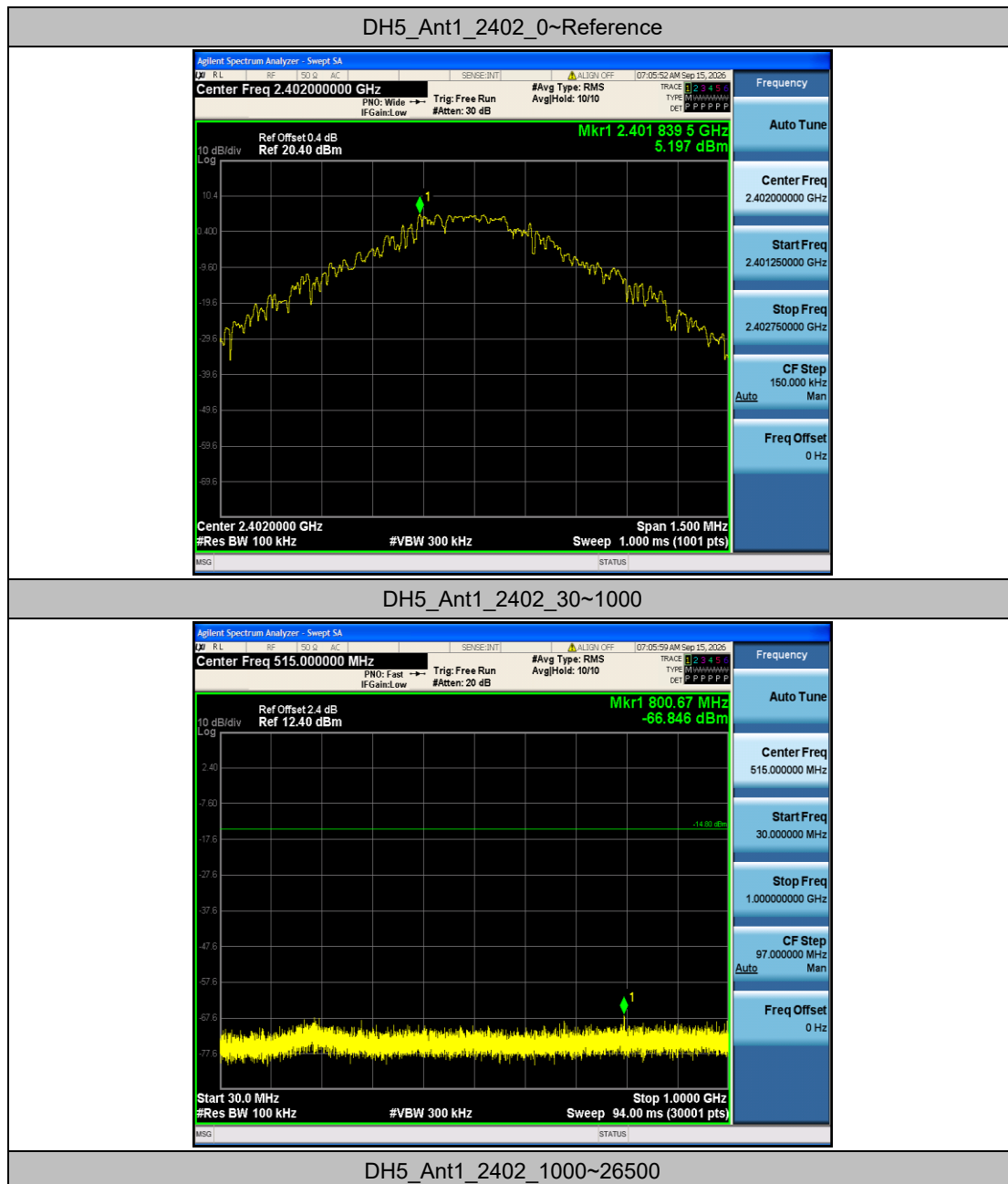


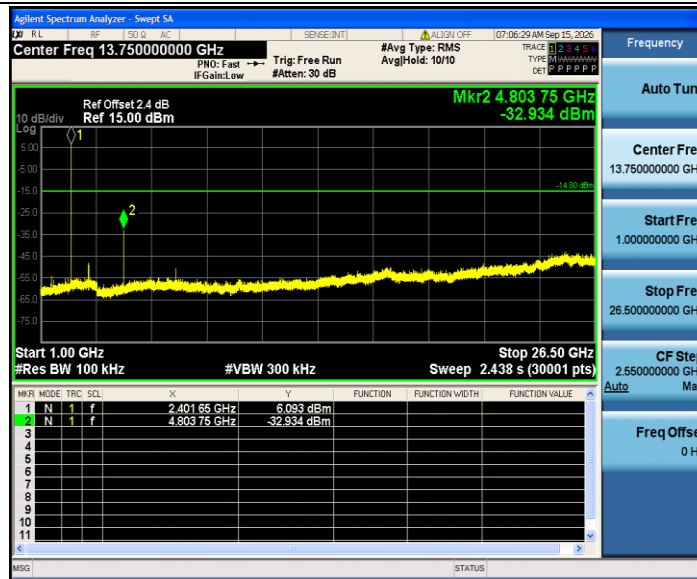
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	5.20	5.20	---	PASS
			30~1000	5.20	-66.85	≤-14.8	PASS
			1000~26500	5.20	-32.93	≤-14.8	PASS
		2441	Reference	5.64	5.64	---	PASS
			30~1000	5.64	-68.28	≤-14.36	PASS
			1000~26500	5.64	-33.82	≤-14.36	PASS
		2480	Reference	4.70	4.70	---	PASS
			30~1000	4.70	-68	≤-15.3	PASS
			1000~26500	4.70	-34.92	≤-15.3	PASS
2DH5	Ant1	2402	Reference	1.67	1.67	---	PASS
			30~1000	1.67	-66.58	≤-18.33	PASS
			1000~26500	1.67	-37.13	≤-18.33	PASS
		2441	Reference	-1.06	-1.06	---	PASS
			30~1000	-1.06	-68.01	≤-21.06	PASS
			1000~26500	-1.06	-38.99	≤-21.06	PASS
		2480	Reference	1.52	1.52	---	PASS
			30~1000	1.52	-67.3	≤-18.48	PASS
			1000~26500	1.52	-40.05	≤-18.48	PASS
3DH5	Ant1	2402	Reference	0.73	0.73	---	PASS
			30~1000	0.73	-68.03	≤-19.27	PASS
			1000~26500	0.73	-38.33	≤-19.27	PASS
		2441	Reference	0.09	0.09	---	PASS
			30~1000	0.09	-68.11	≤-19.91	PASS
			1000~26500	0.09	-38.62	≤-19.91	PASS
		2480	Reference	0.67	0.67	---	PASS
			30~1000	0.67	-67.83	≤-19.33	PASS
			1000~26500	0.67	-37.37	≤-19.33	PASS

Test Graphs

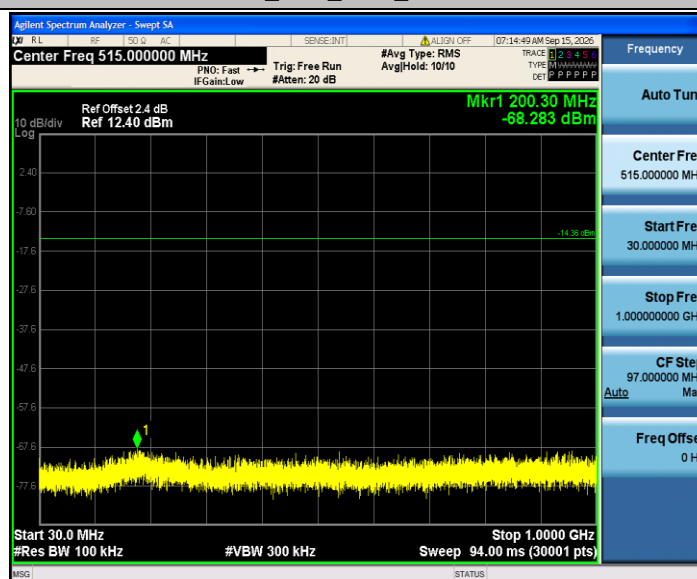




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



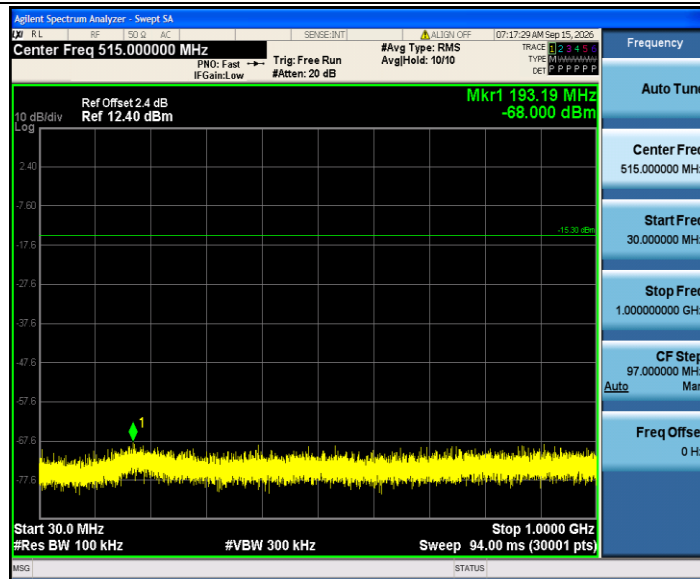
DH5_Ant1_2441_1000~26500



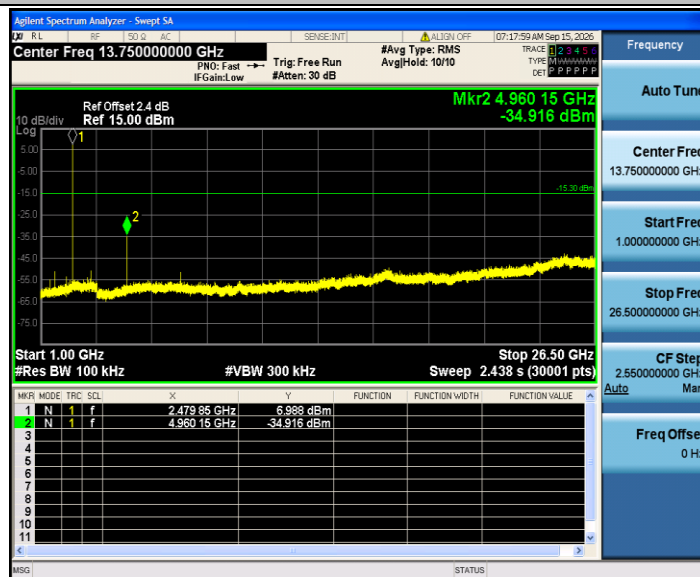
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



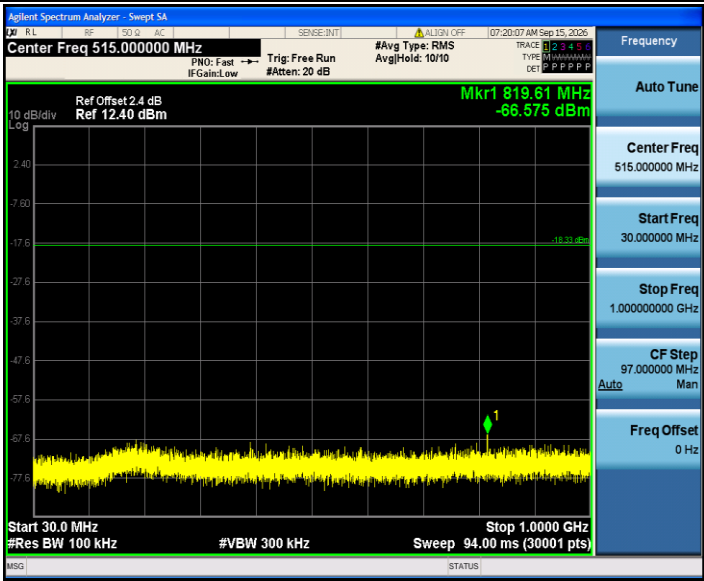
DH5_Ant1_2480_1000~26500



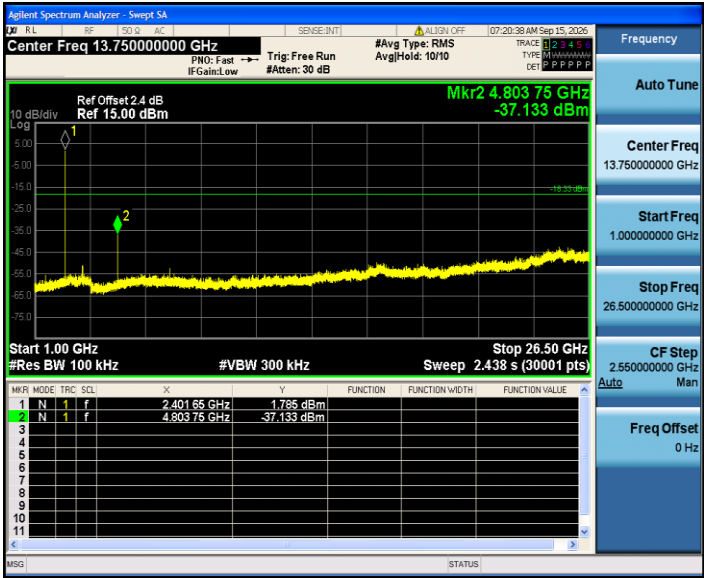
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference