

FCC Appendix RF Test Data

FCC ID : 2AR4E-P1

Company: : Shenzhen Beibo Intelligent Technology Co., Ltd.

EUT : Carplay Screen for Car

Model Number : P1

Report No. : CTA25050800601

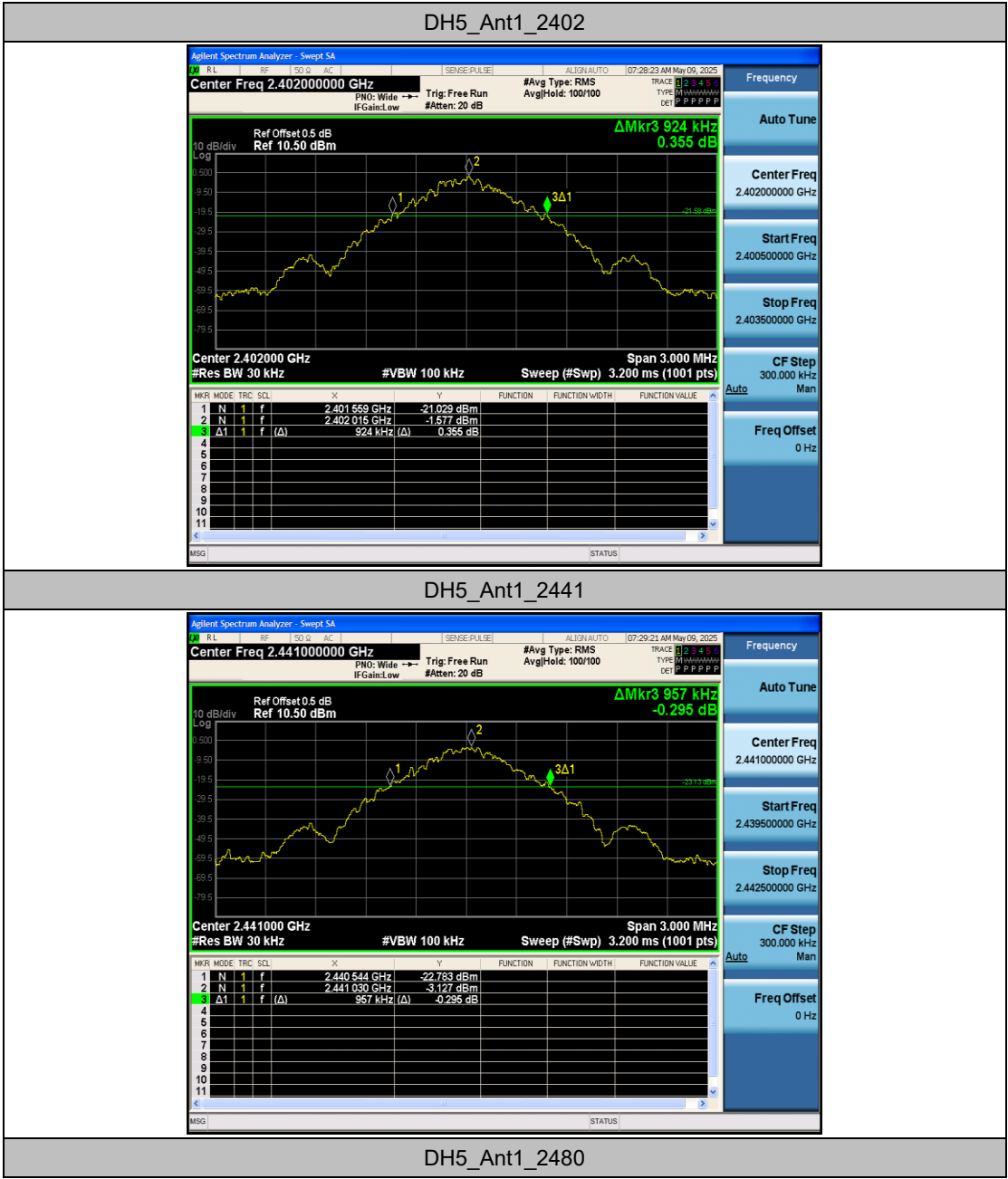
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.924	2401.559	2402.483	---	---
		2441	0.957	2440.544	2441.501	---	---
		2480	0.951	2479.547	2480.498	---	---
2DH5	Ant1	2402	1.320	2401.349	2402.669	---	---
		2441	1.281	2440.379	2441.660	---	---
		2480	1.281	2479.379	2480.660	---	---
3DH5	Ant1	2402	1.299	2401.361	2402.660	---	---
		2441	1.284	2440.367	2441.651	---	---
		2480	1.341	2479.337	2480.678	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

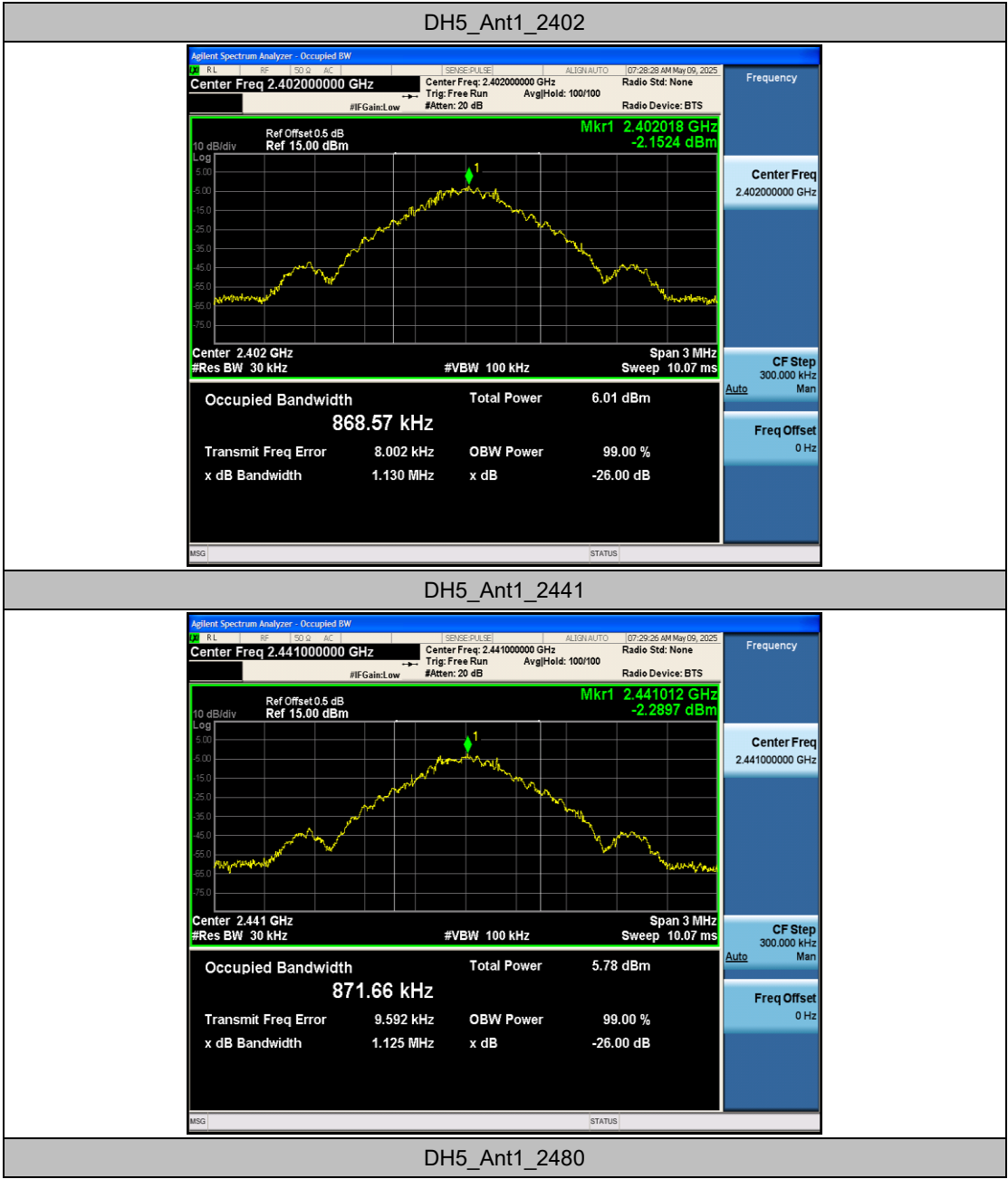


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86857	2401.5737	2402.4423	---	---
		2441	0.87166	2440.5738	2441.4454	---	---
		2480	0.87697	2479.5704	2480.4473	---	---
2DH5	Ant1	2402	1.1849	2401.4177	2402.6026	---	---
		2441	1.1882	2440.4154	2441.6036	---	---
		2480	1.1864	2479.4173	2480.6037	---	---
3DH5	Ant1	2402	1.1811	2401.4216	2402.6027	---	---
		2441	1.1909	2440.4149	2441.6058	---	---
		2480	1.1839	2479.4179	2480.6018	---	---

Test Graphs

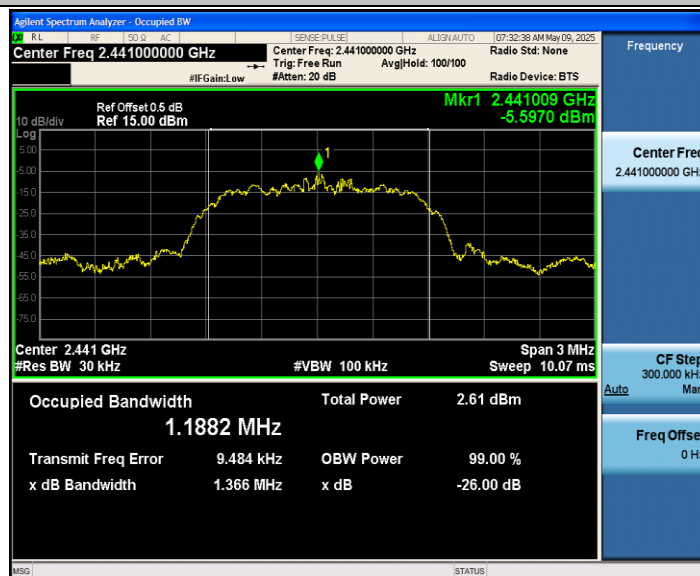




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



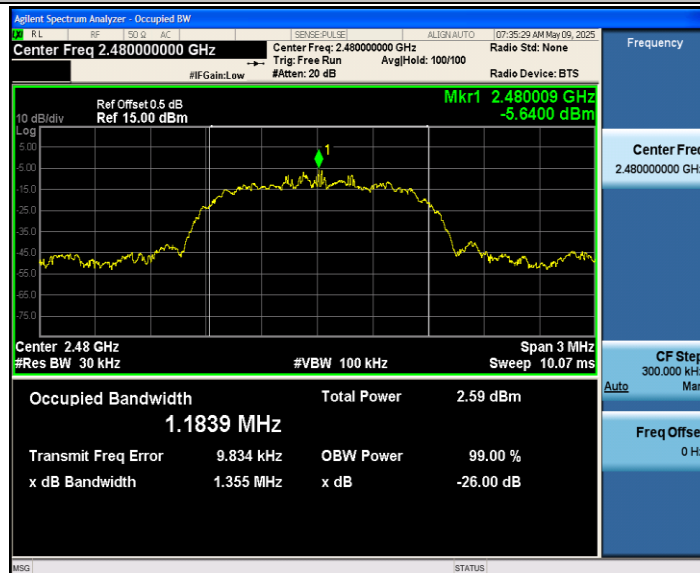
3DH5_Ant1_2402



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	0.08	≤20.97	PASS
		2441	-0.07	≤20.97	PASS
		2480	-0.15	≤20.97	PASS
2DH5	Ant1	2402	-0.81	≤20.97	PASS
		2441	-0.92	≤20.97	PASS
		2480	-0.96	≤20.97	PASS
3DH5	Ant1	2402	-0.39	≤20.97	PASS
		2441	-0.55	≤20.97	PASS
		2480	-0.55	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.304	≥ 0.861	PASS
2DH5	Ant1	Hop	1.196	≥ 0.866	PASS
3DH5	Ant1	Hop	0.952	≥ 0.844	PASS

Test Graphs

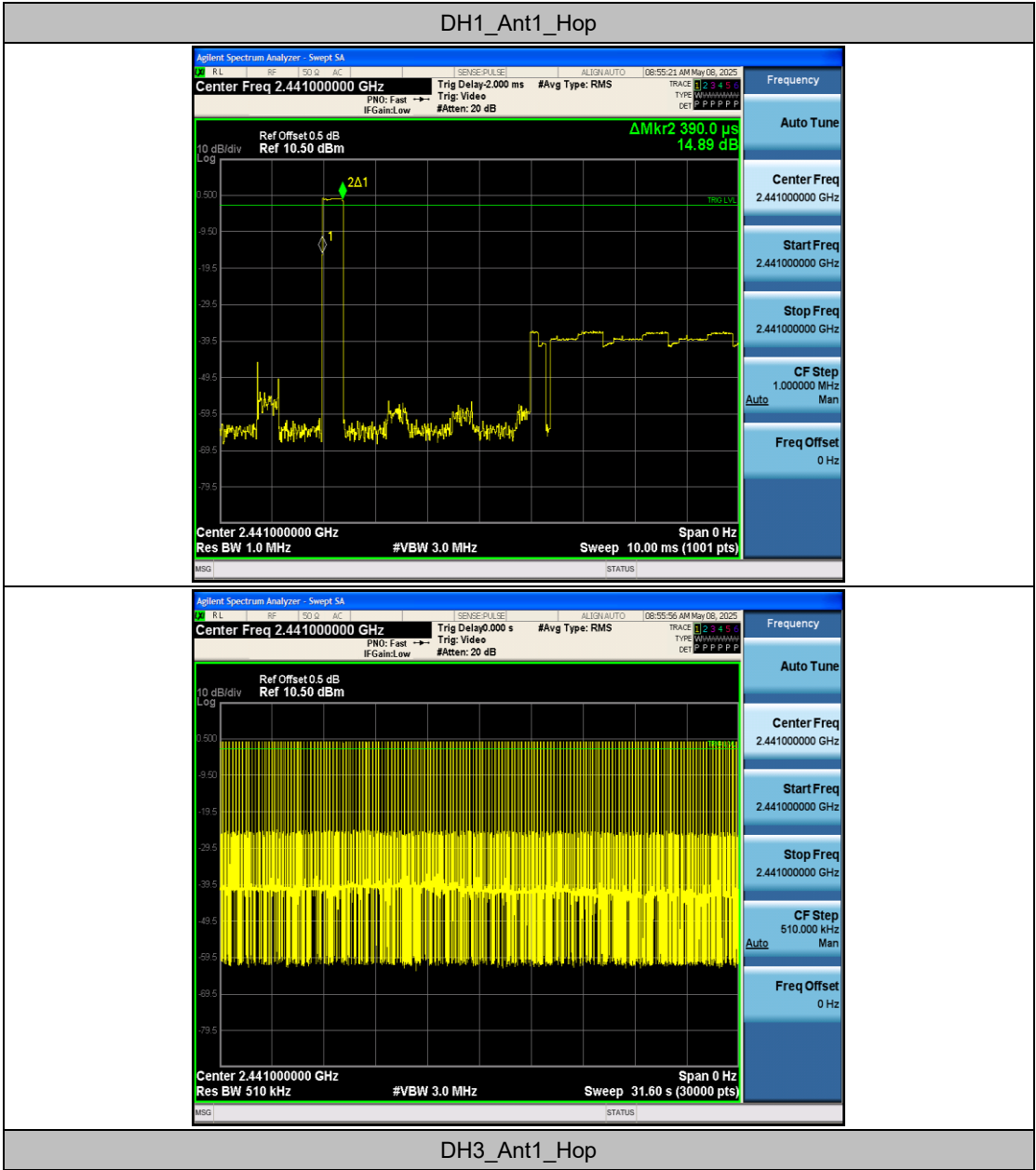


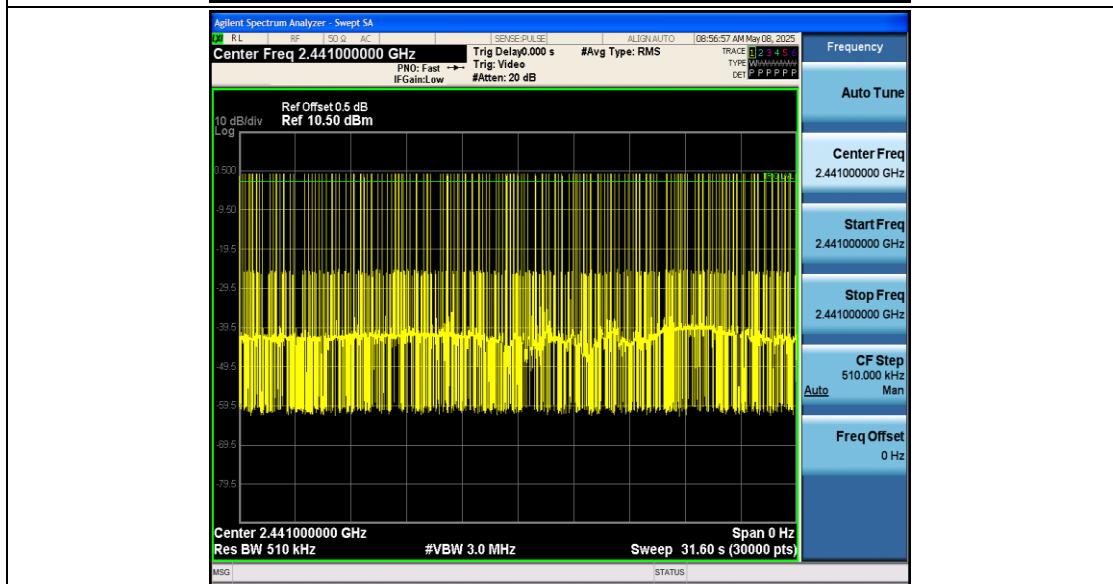
Appendix E: Time of occupancy

Test Result

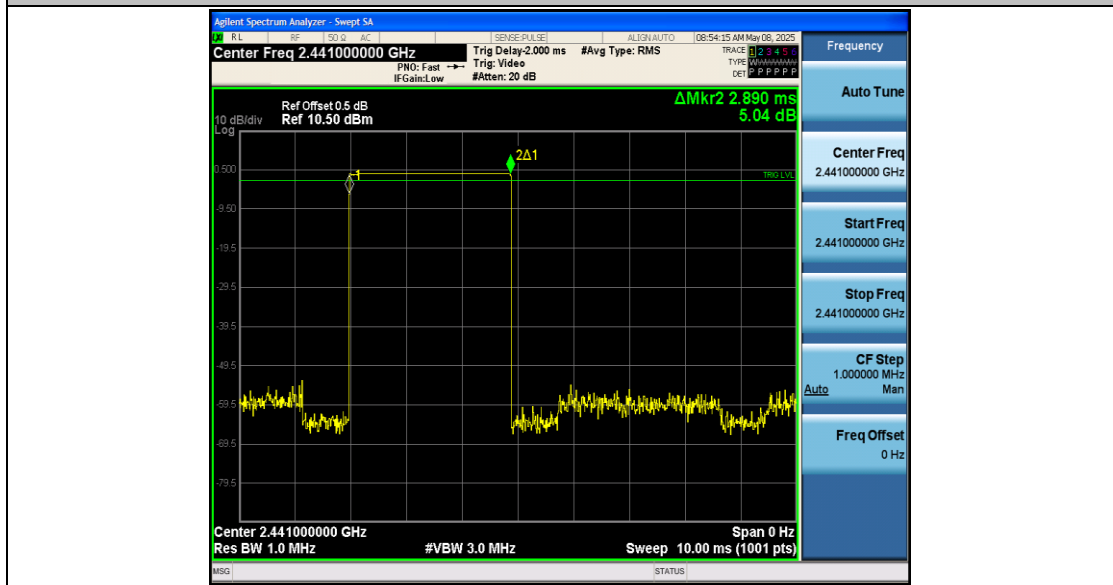
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	318	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.640	174	0.285	≤0.4	PASS
DH5	Ant1	Hop	2.890	99	0.286	≤0.4	PASS
2DH1	Ant1	Hop	0.400	319	0.128	≤0.4	PASS
2DH3	Ant1	Hop	1.650	163	0.269	≤0.4	PASS
2DH5	Ant1	Hop	2.900	103	0.299	≤0.4	PASS
3DH1	Ant1	Hop	0.400	319	0.128	≤0.4	PASS
3DH3	Ant1	Hop	1.650	160	0.264	≤0.4	PASS
3DH5	Ant1	Hop	2.900	102	0.296	≤0.4	PASS

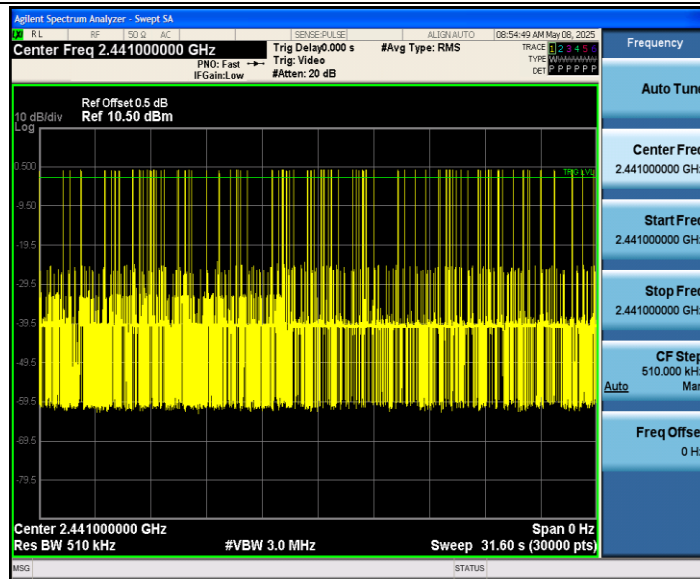
Test Graphs



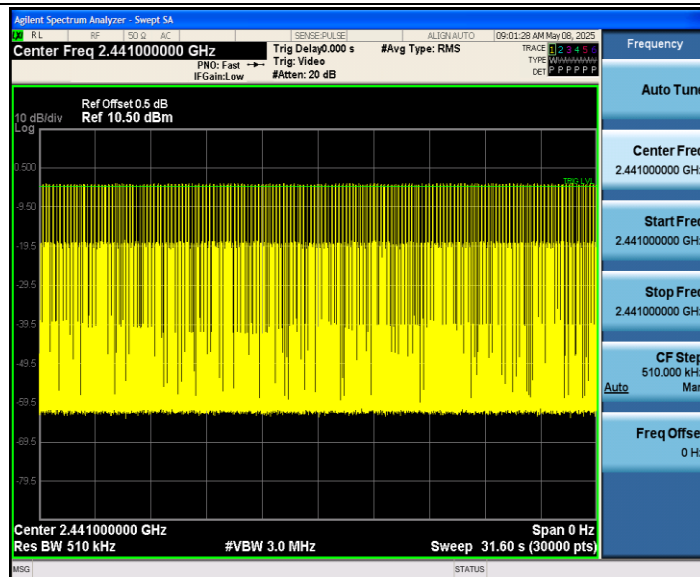
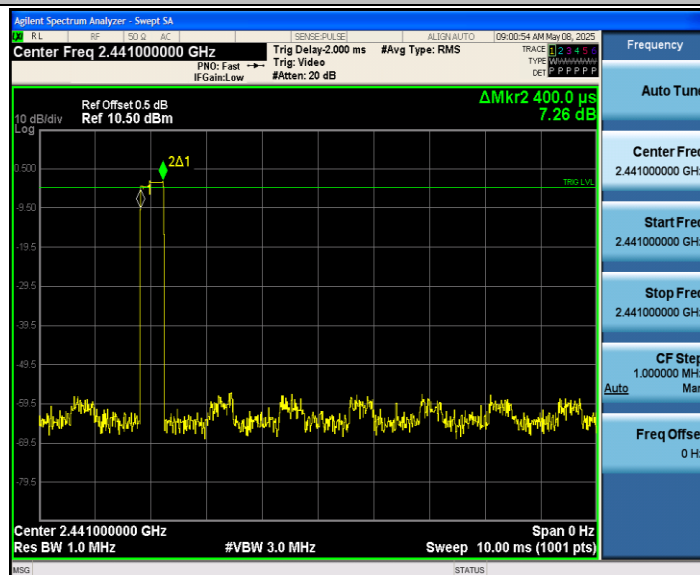


DH5_Ant1_Hop

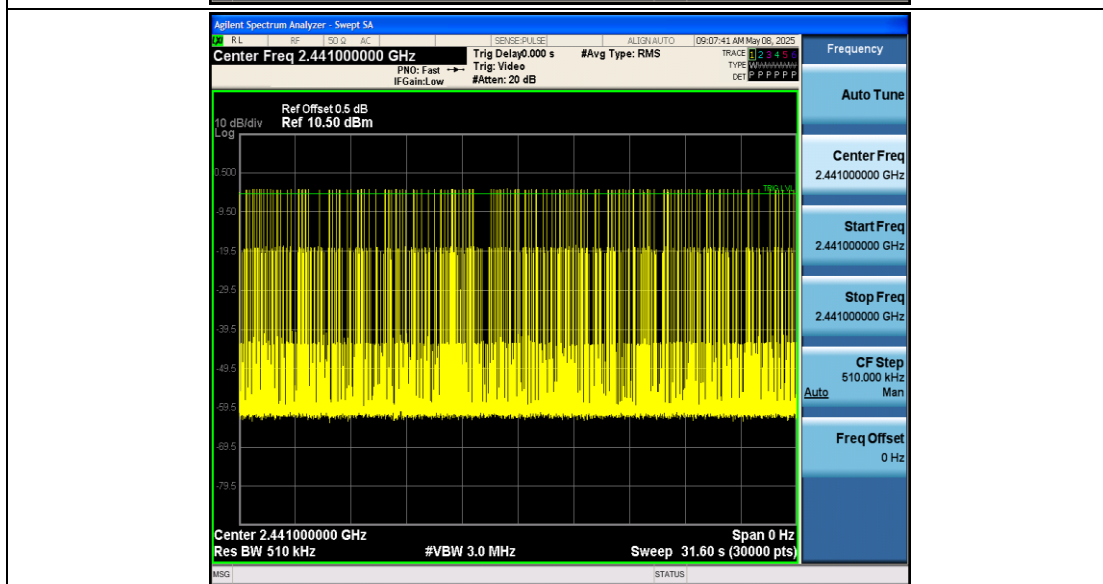




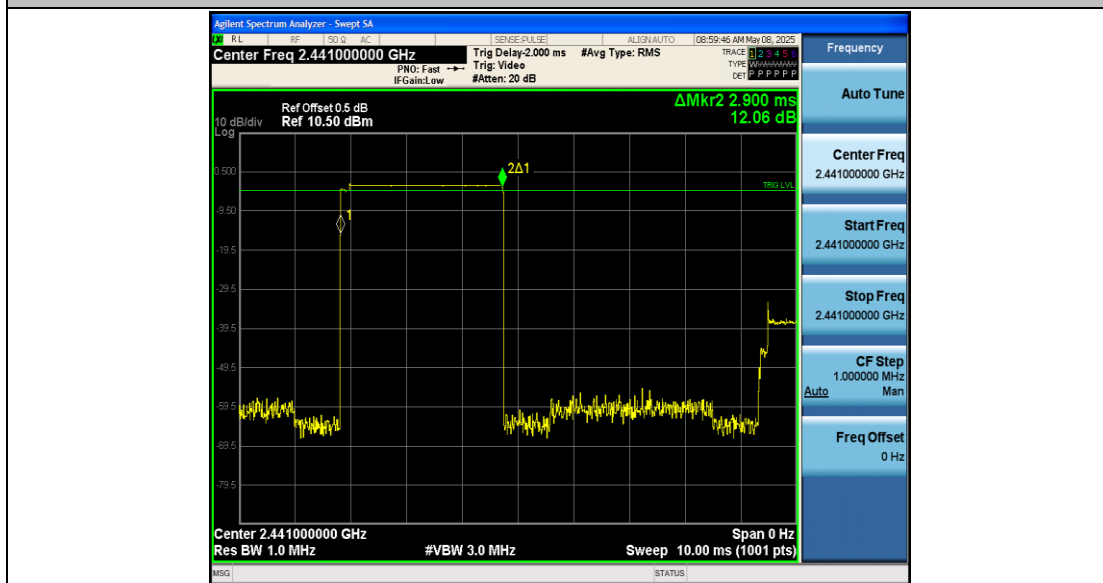
2DH1_Ant1_Hop

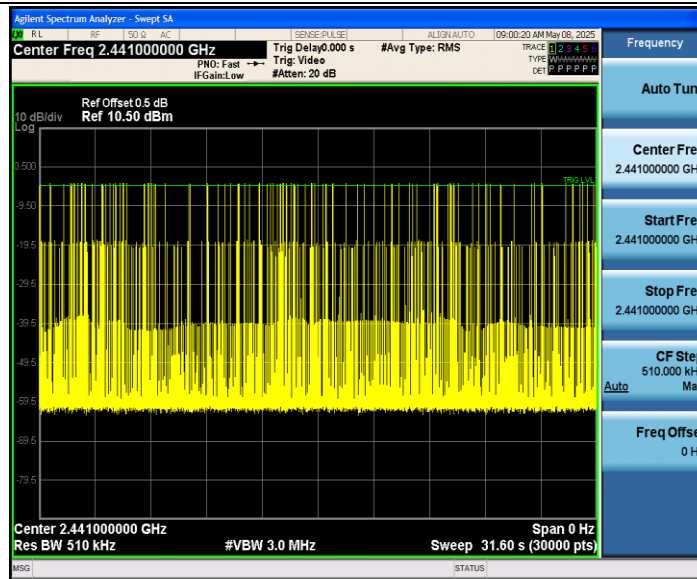


2DH3_Ant1_Hop

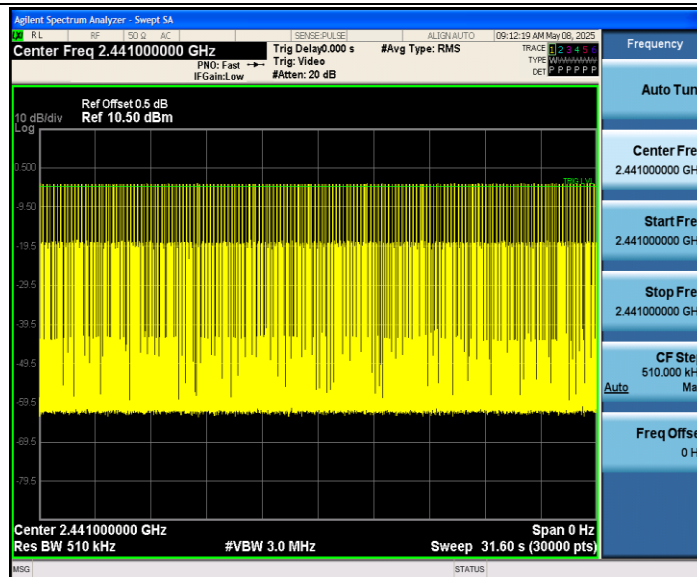
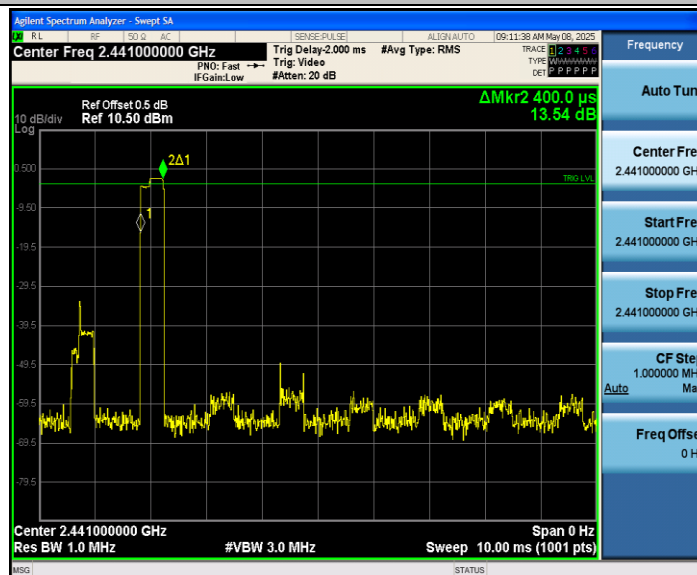


2DH5_Ant1_Hop

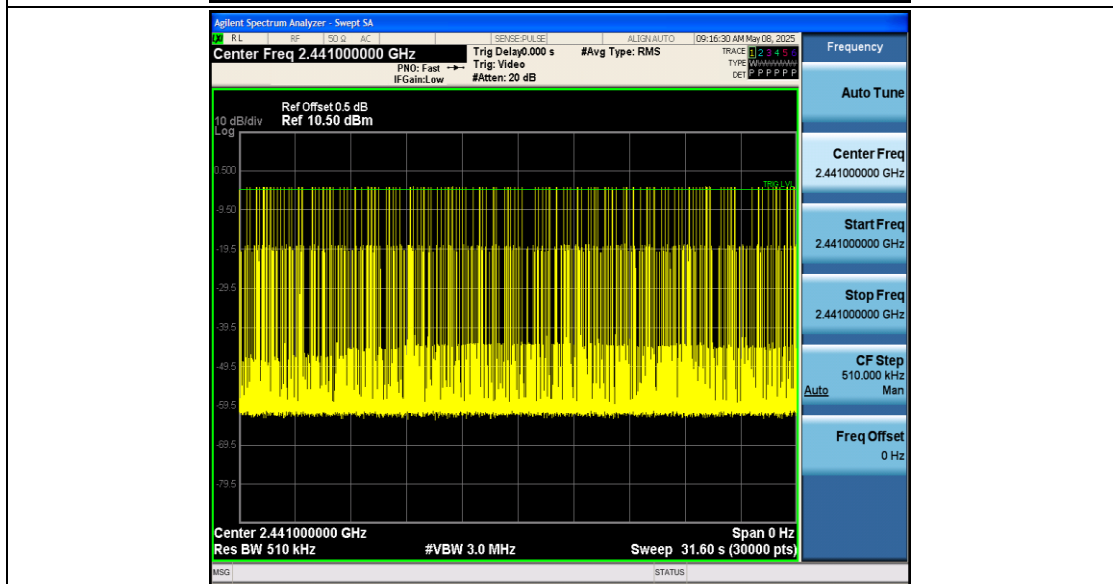
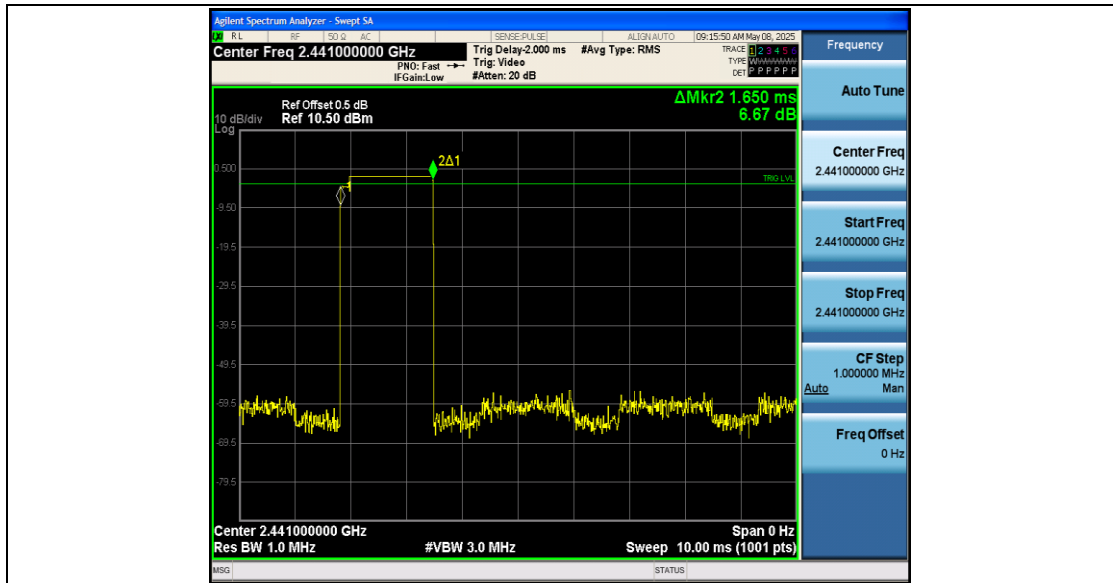




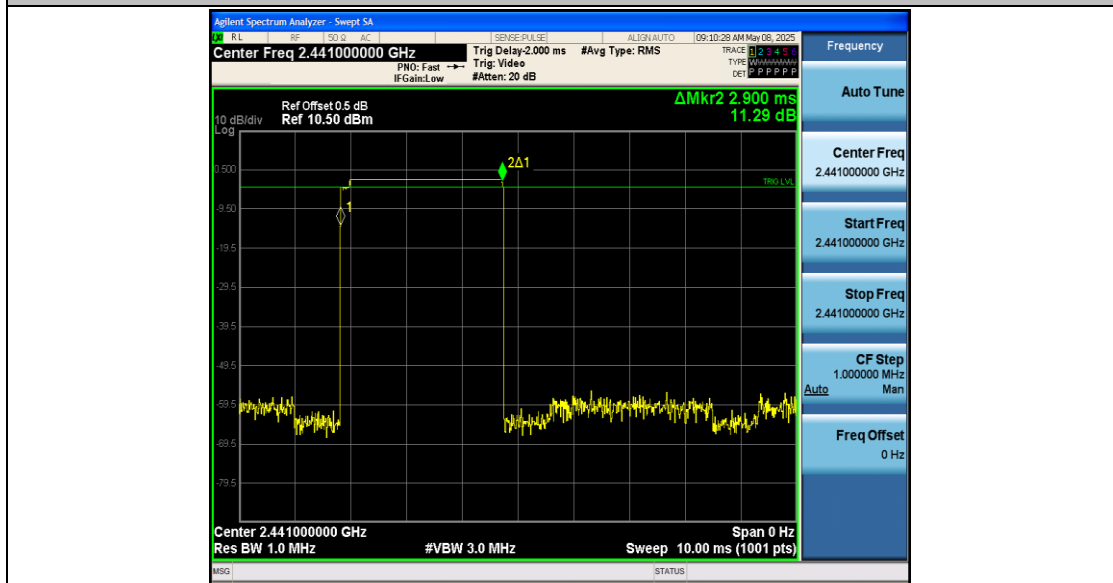
3DH1_Ant1_Hop

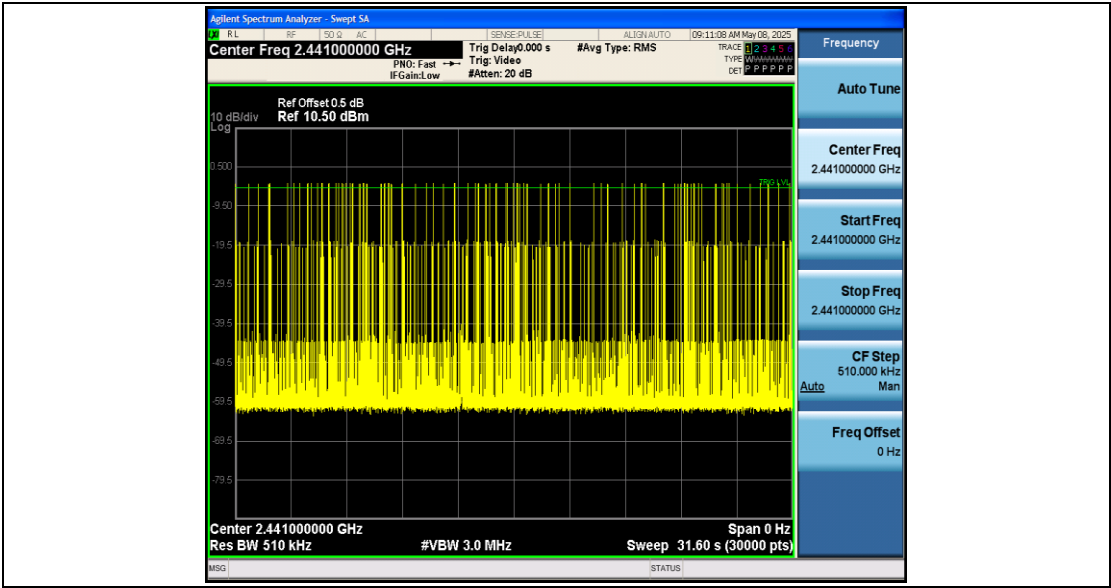


3DH3_Ant1_Hop



3DH5_Ant1_Hop



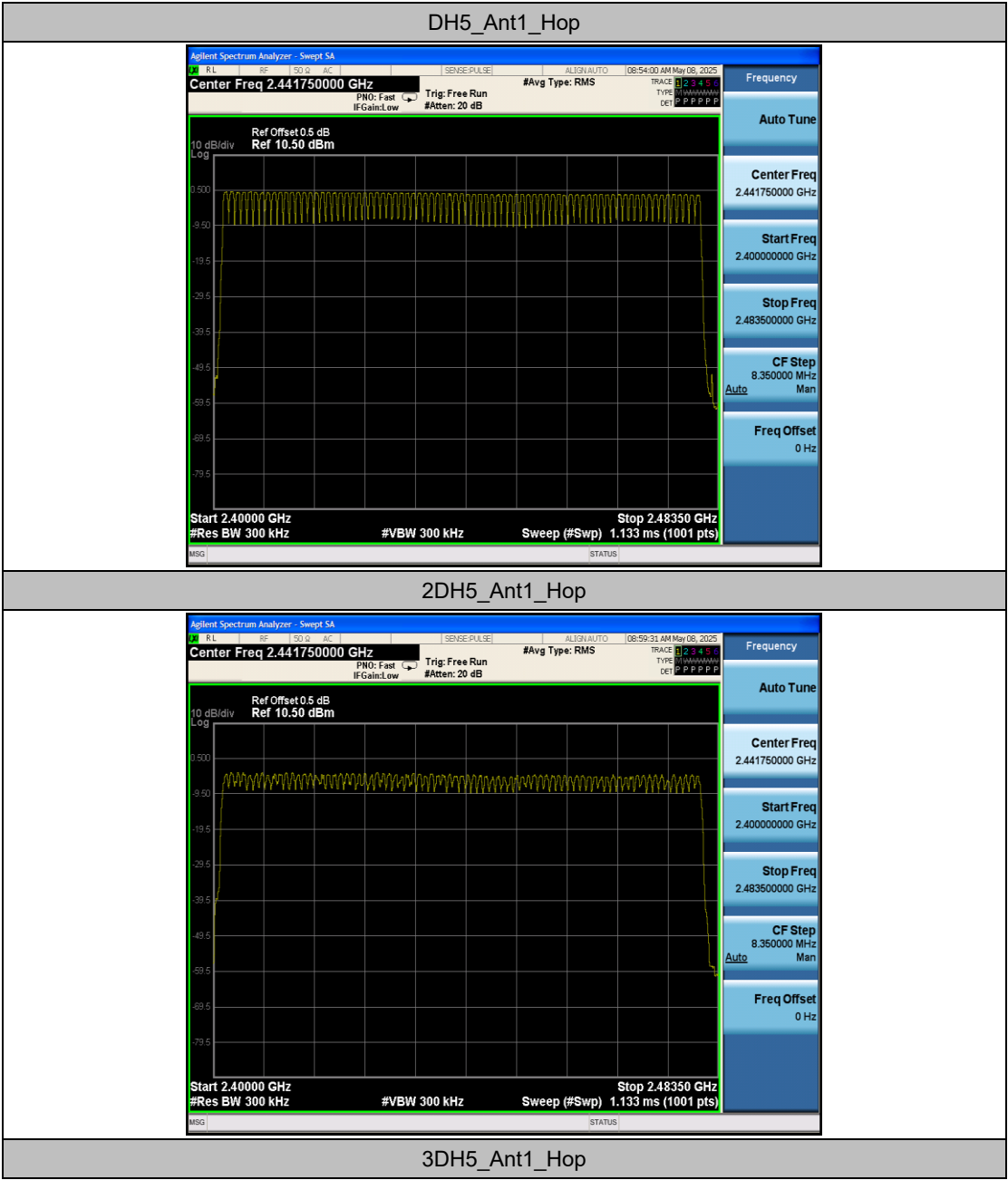


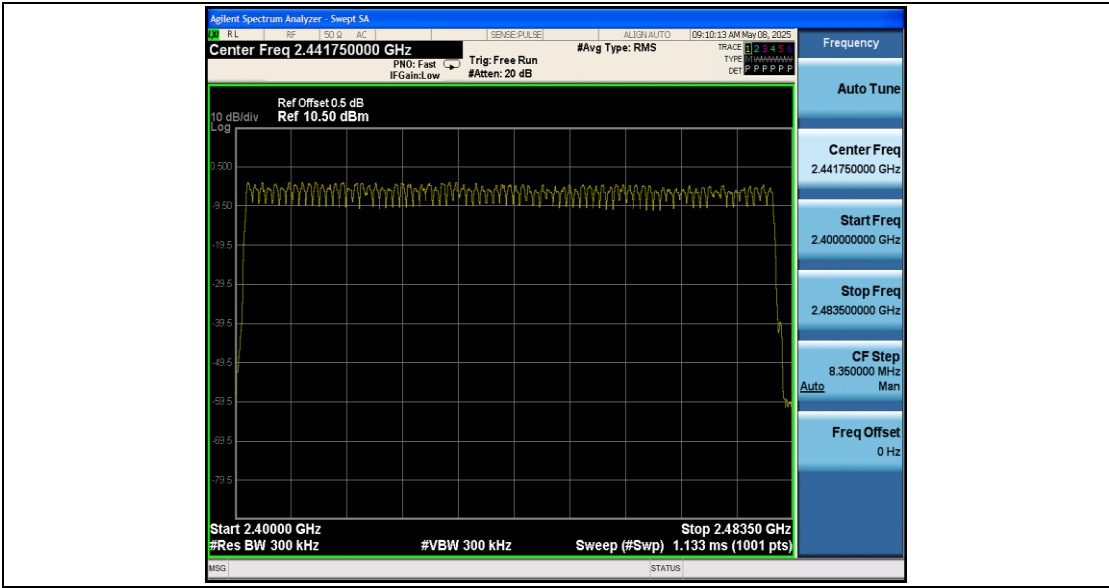
Appendix F: Number of hopping channels

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



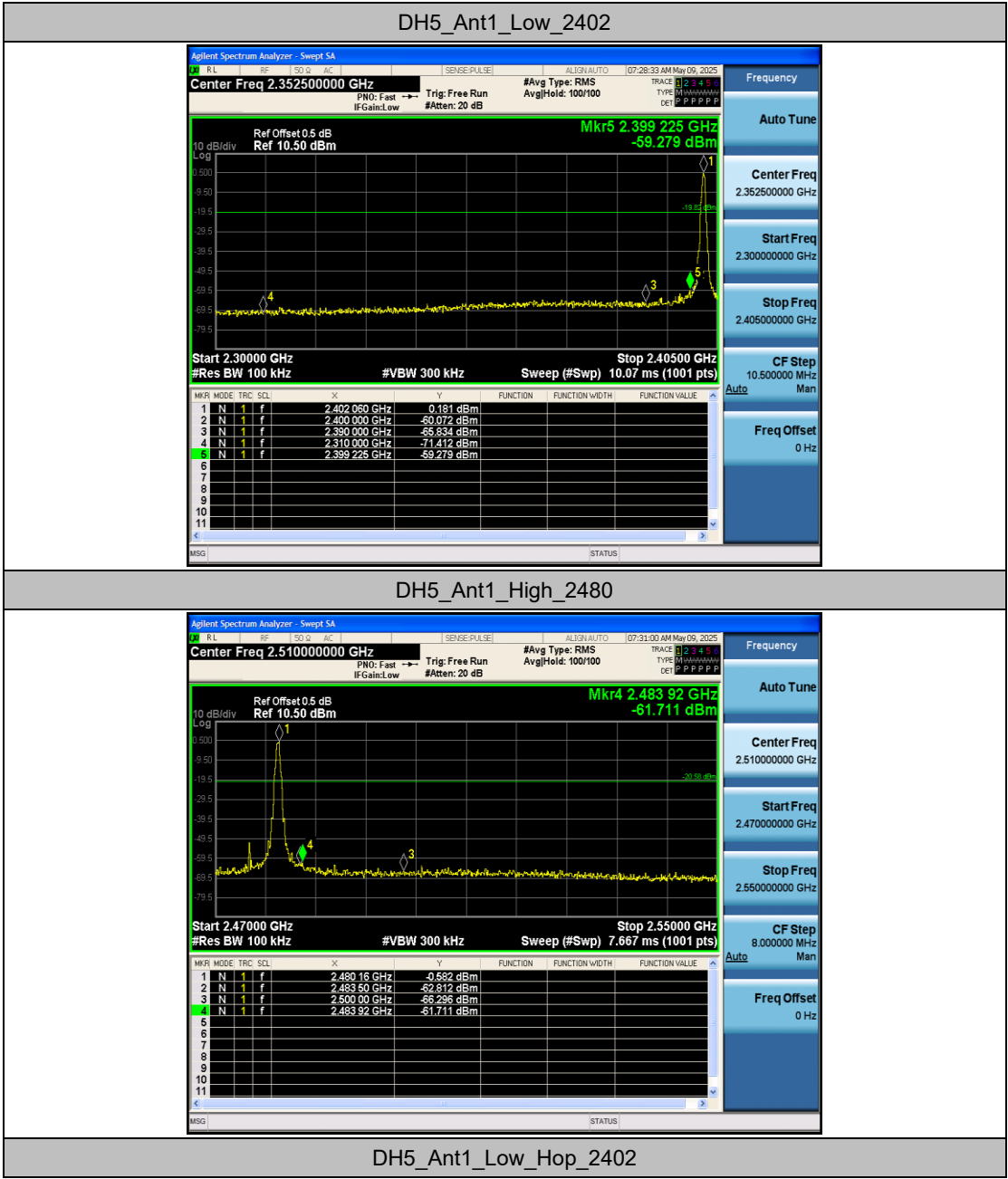


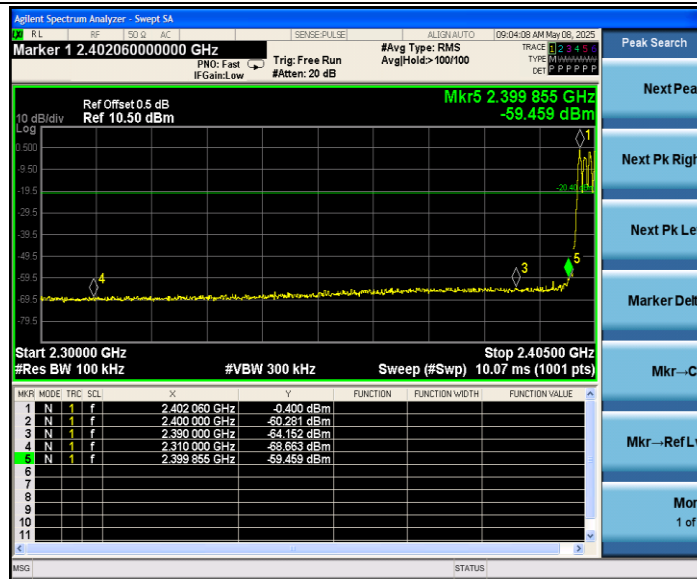
Appendix G: Band edge measurements

Test Result

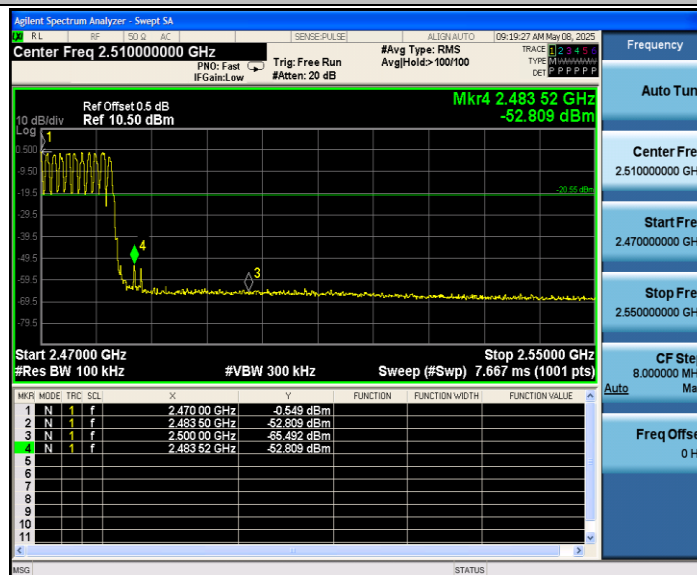
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.18	-59.28	≤-19.82	PASS
		High	2480	-0.58	-61.71	≤-20.58	PASS
		Low	Hop_2402	-0.40	-59.46	≤-20.4	PASS
		High	Hop_2480	-0.55	-52.81	≤-20.55	PASS
2DH5	Ant1	Low	2402	-4.26	-60.07	≤-24.26	PASS
		High	2480	-4.92	-59.62	≤-24.92	PASS
		Low	Hop_2402	-3.50	-61.05	≤-23.5	PASS
		High	Hop_2480	-4.14	-64.22	≤-24.14	PASS
3DH5	Ant1	Low	2402	-4.61	-59.6	≤-24.61	PASS
		High	2480	-3.95	-57.36	≤-23.95	PASS
		Low	Hop_2402	-3.77	-62.26	≤-23.77	PASS
		High	Hop_2480	-4.32	-61.08	≤-24.32	PASS

Test Graphs

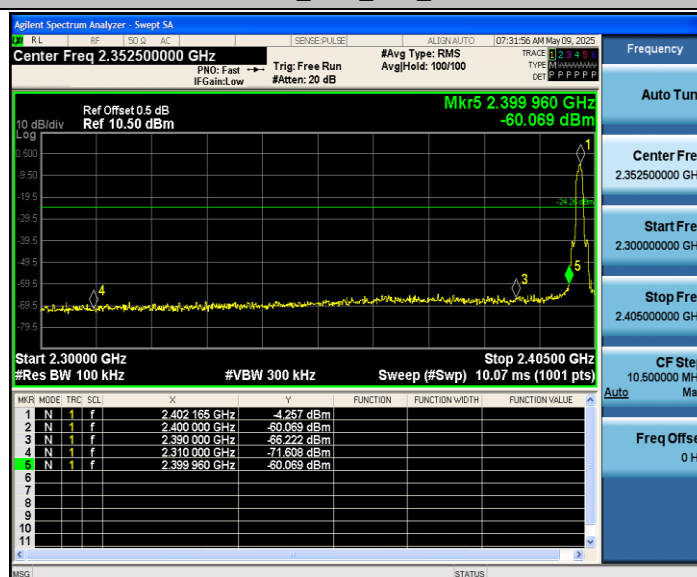




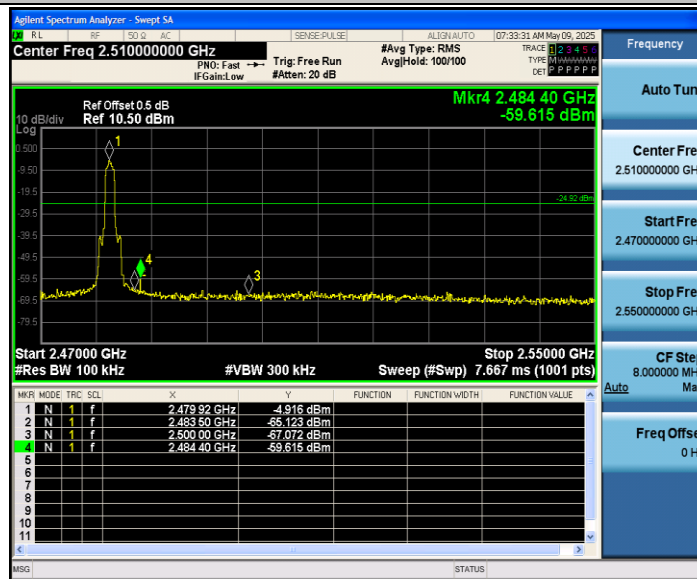
DH5_Ant1_High_Hop_2480



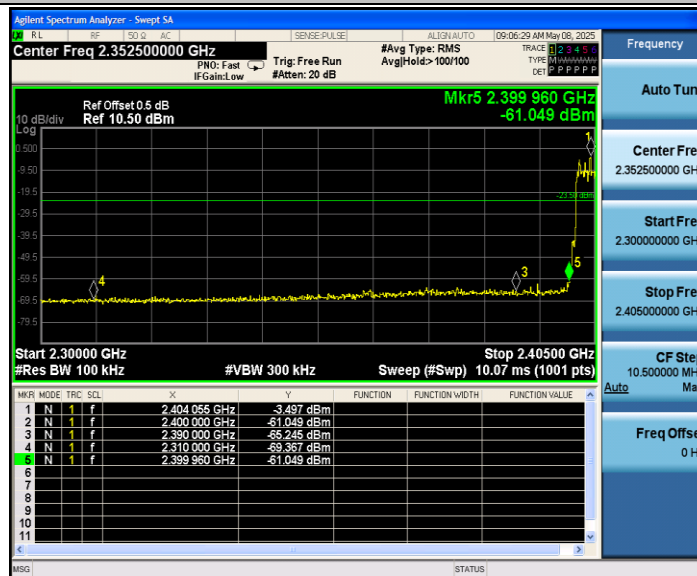
2DH5_Ant1_Low_2402



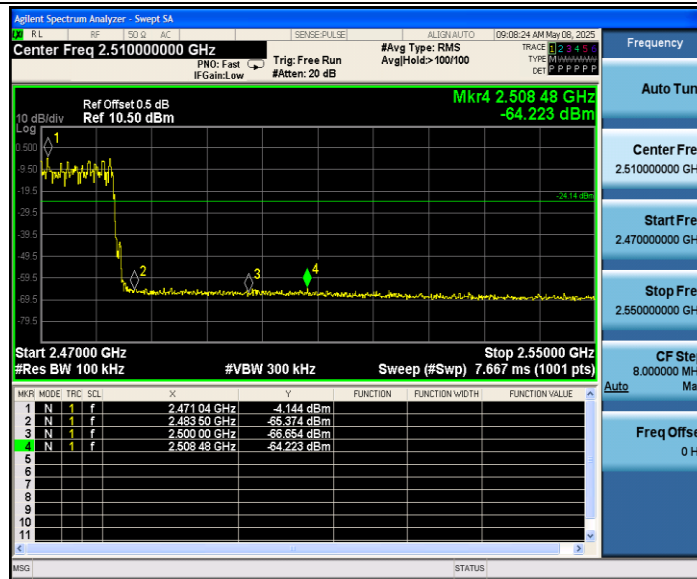
2DH5_Ant1_High_2480



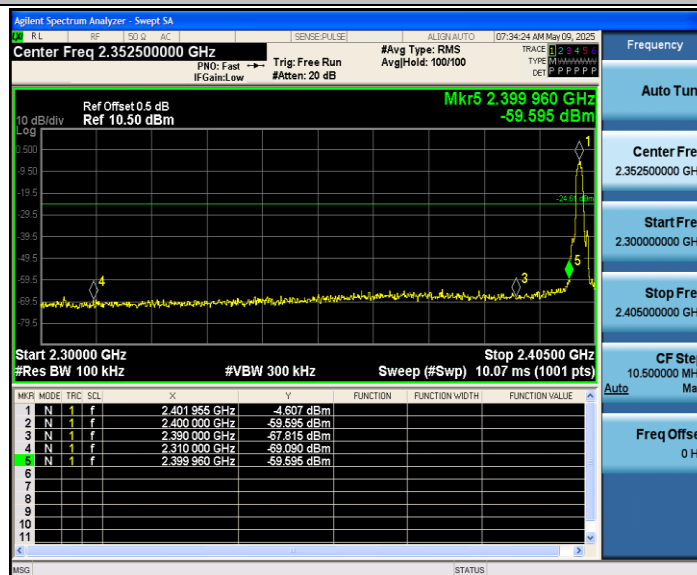
2DH5_Ant1_Low_Hop_2402



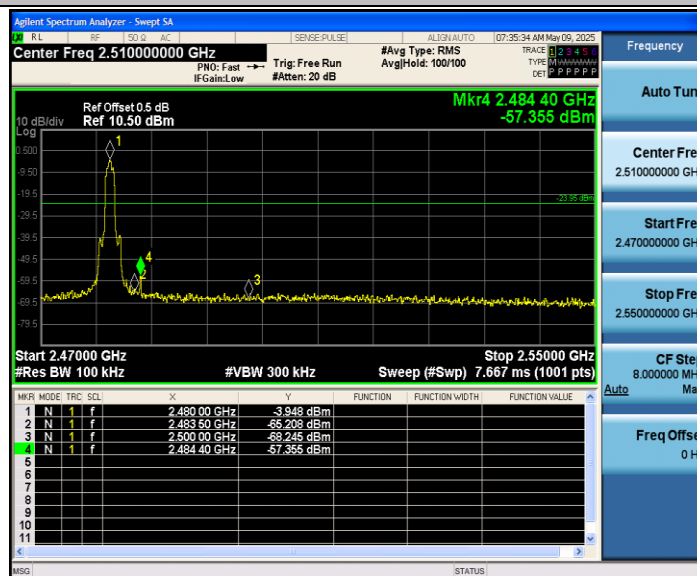
2DH5_Ant1_High_Hop_2480



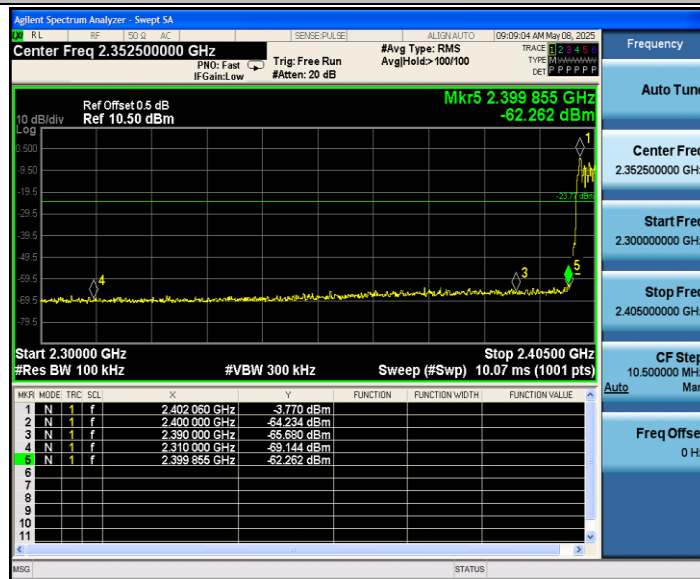
3DH5_Ant1_Low_2402



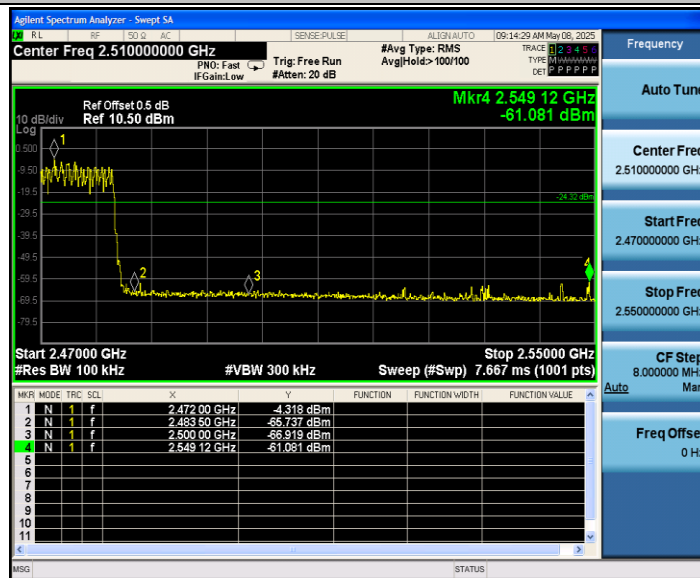
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

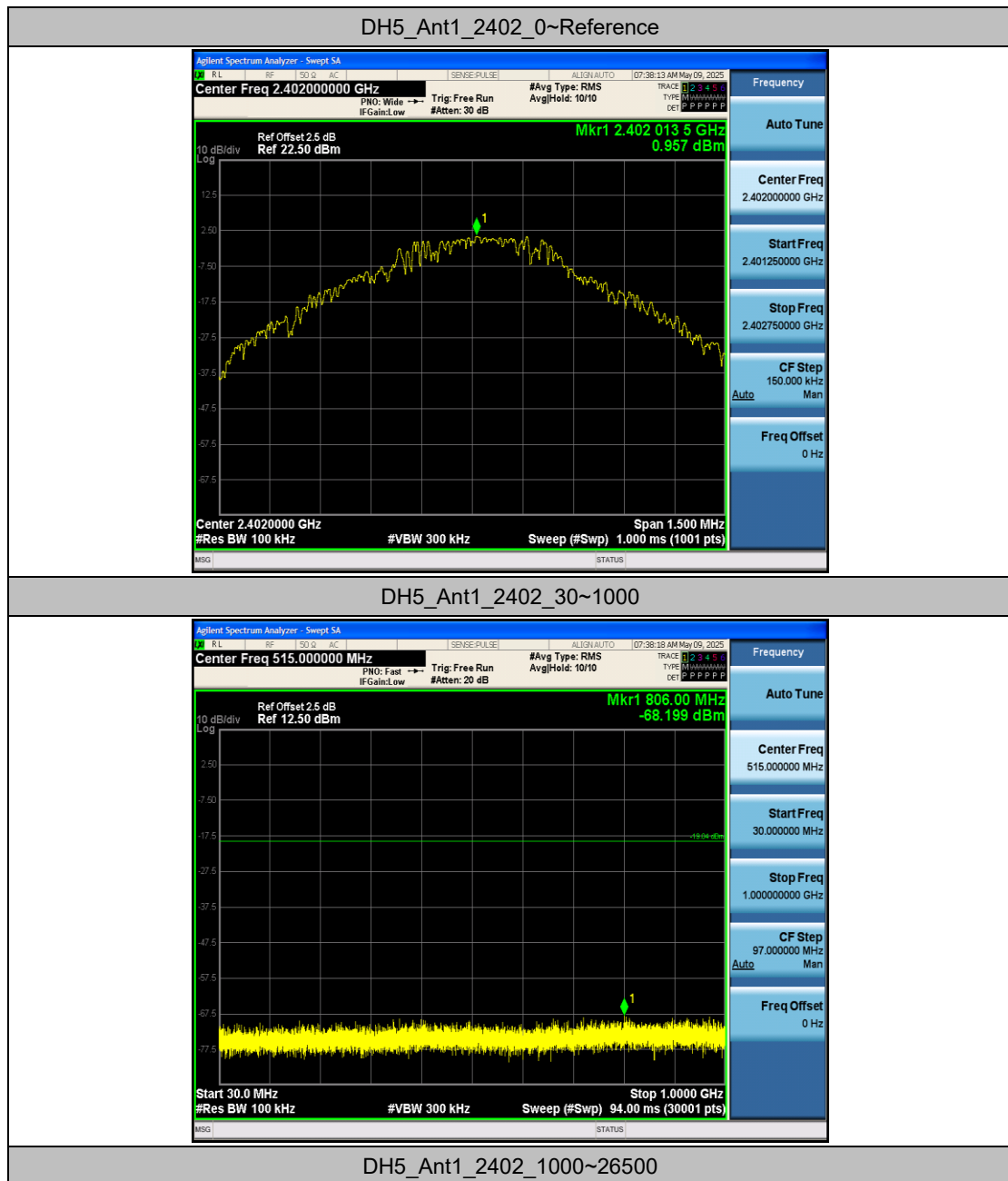


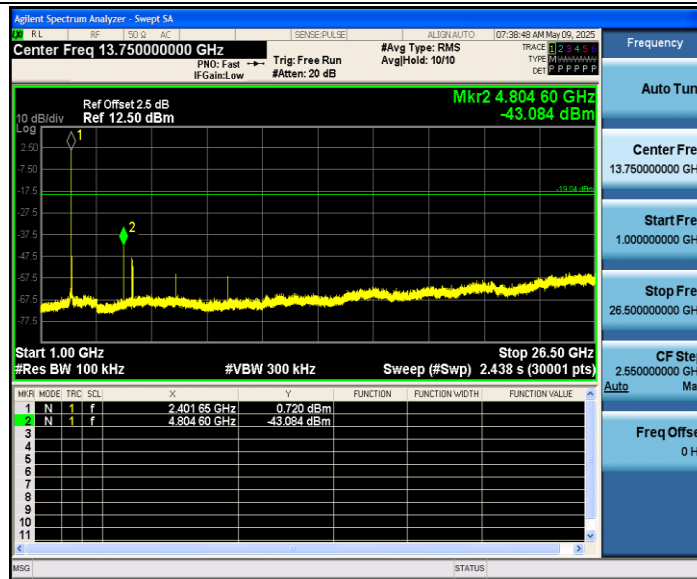
Appendix H: Conducted Spurious Emission

Test Result

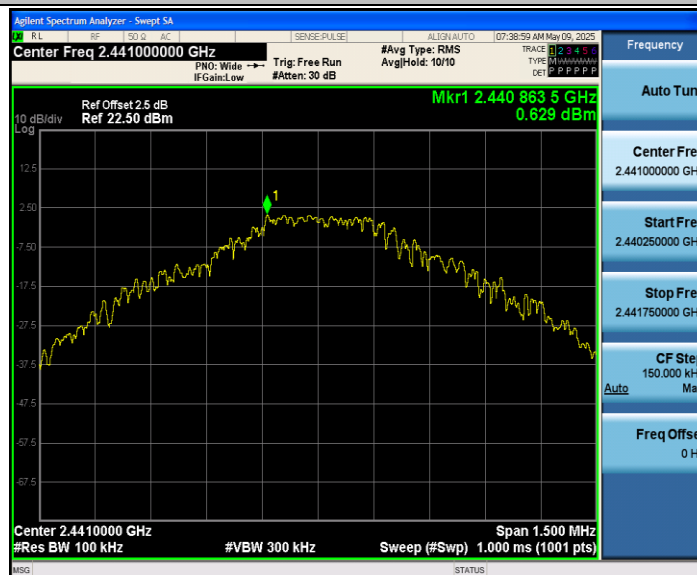
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.96	0.96	---	PASS
			30~1000	0.96	-68.2	≤-19.04	PASS
			1000~26500	0.96	-43.08	≤-19.04	PASS
		2441	Reference	0.63	0.63	---	PASS
			30~1000	0.63	-68.37	≤-19.37	PASS
			1000~26500	0.63	-44.76	≤-19.37	PASS
		2480	Reference	1.03	1.03	---	PASS
			30~1000	1.03	-61.89	≤-18.97	PASS
			1000~26500	1.03	-41.83	≤-18.97	PASS
2DH5	Ant1	2402	Reference	0.51	0.51	---	PASS
			30~1000	0.51	-68.04	≤-19.49	PASS
			1000~26500	0.51	-43.34	≤-19.49	PASS
		2441	Reference	-0.21	-0.21	---	PASS
			30~1000	-0.21	-67.5	≤-20.21	PASS
			1000~26500	-0.21	-43.43	≤-20.21	PASS
		2480	Reference	0.32	0.32	---	PASS
			30~1000	0.32	-67.64	≤-19.68	PASS
			1000~26500	0.32	-46.09	≤-19.68	PASS
3DH5	Ant1	2402	Reference	-4.25	-4.25	---	PASS
			30~1000	-4.25	-67.7	≤-24.25	PASS
			1000~26500	-4.25	-46.18	≤-24.25	PASS
		2441	Reference	-2.41	-2.41	---	PASS
			30~1000	-2.41	-67.75	≤-22.41	PASS
			1000~26500	-2.41	-48.28	≤-22.41	PASS
		2480	Reference	-1.88	-1.88	---	PASS
			30~1000	-1.88	-68.33	≤-21.88	PASS
			1000~26500	-1.88	-42.85	≤-21.88	PASS

Test Graphs

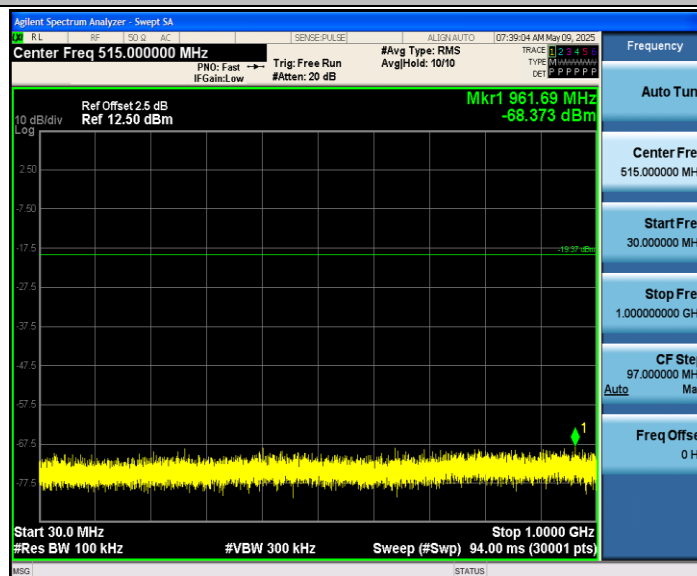




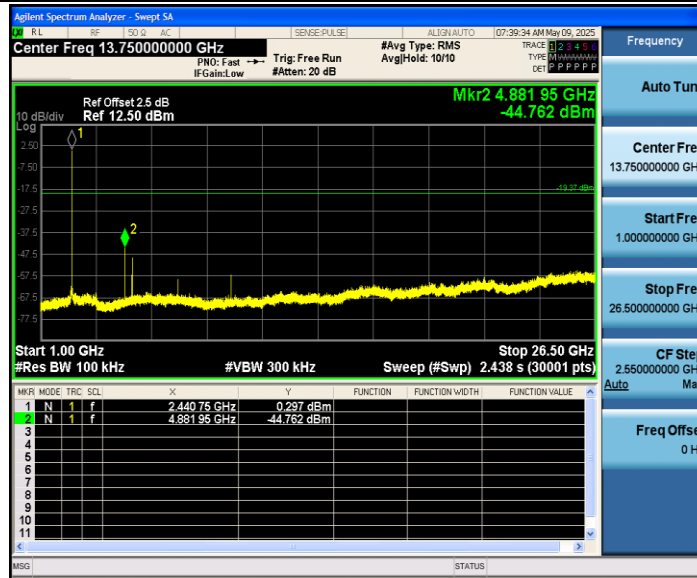
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



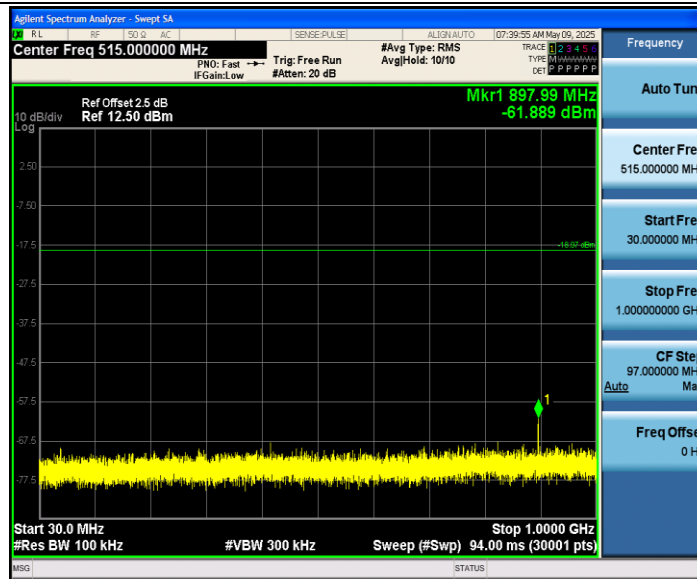
DH5_Ant1_2441_1000~26500



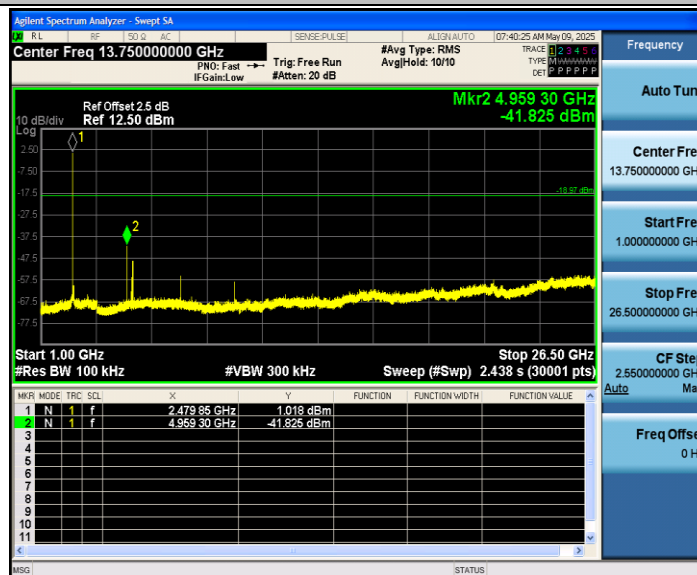
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



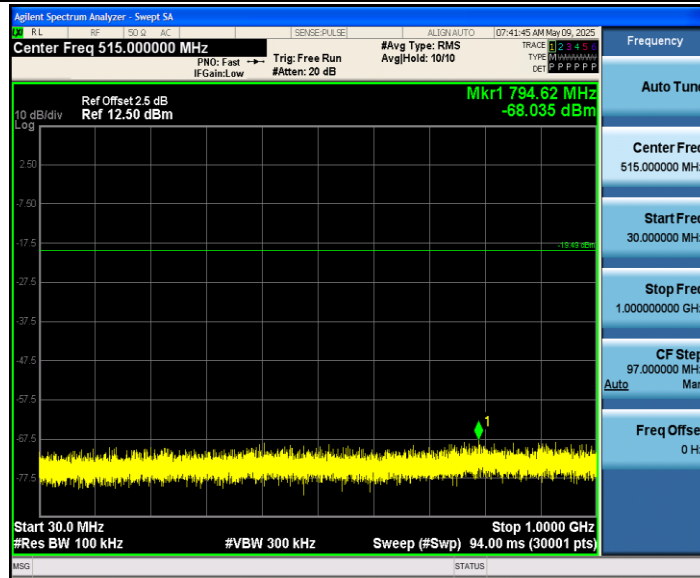
DH5_Ant1_2480_1000~26500



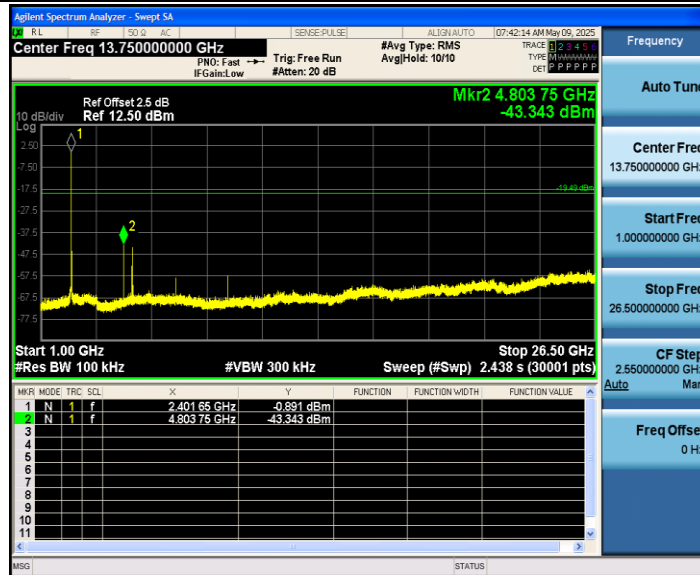
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference