

FCC Appendix RF Test Data for BT

FCC ID : 2BVSK-KWCP1

Company : Shenzhen Kaiwei Electronics Co., Ltd

EUT : CarPlay

Model Number : KWCP1

Report No. : CTA26032600701

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	0.945	2401.550	2402.495	---	---
		2441	0.945	2440.550	2441.495	---	---
		2480	0.951	2479.544	2480.495	---	---
2DH5	Ant1	2402	1.335	2401.340	2402.675	---	---
		2441	1.335	2440.346	2441.681	---	---
		2480	1.332	2479.343	2480.675	---	---
3DH5	Ant1	2402	1.299	2401.370	2402.669	---	---
		2441	1.290	2440.364	2441.654	---	---
		2480	1.293	2479.358	2480.651	---	---

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

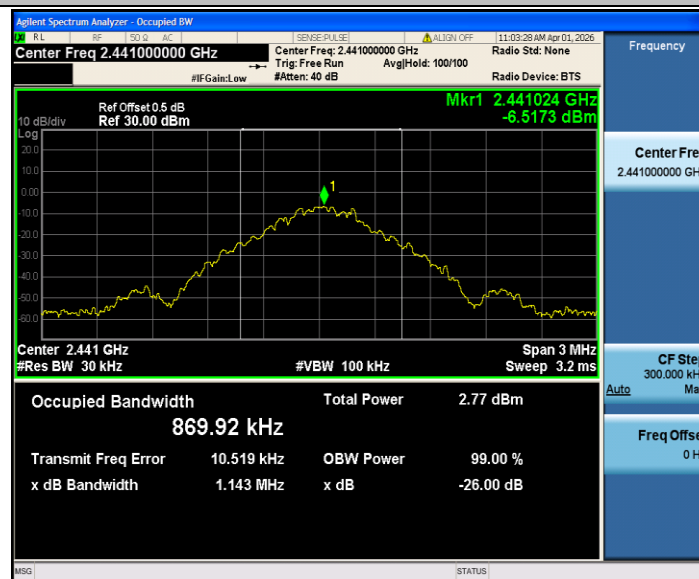
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86859	2401.5778	2402.4464	---	---
		2441	0.86992	2440.5756	2441.4455	---	---
		2480	0.85831	2479.5807	2480.4390	---	---
2DH5	Ant1	2402	1.1848	2401.4188	2402.6036	---	---
		2441	1.1879	2440.4169	2441.6048	---	---
		2480	1.1899	2479.4151	2480.6050	---	---
3DH5	Ant1	2402	1.1900	2401.4165	2402.6065	---	---
		2441	1.1922	2440.4170	2441.6092	---	---
		2480	1.1833	2479.4205	2480.6038	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



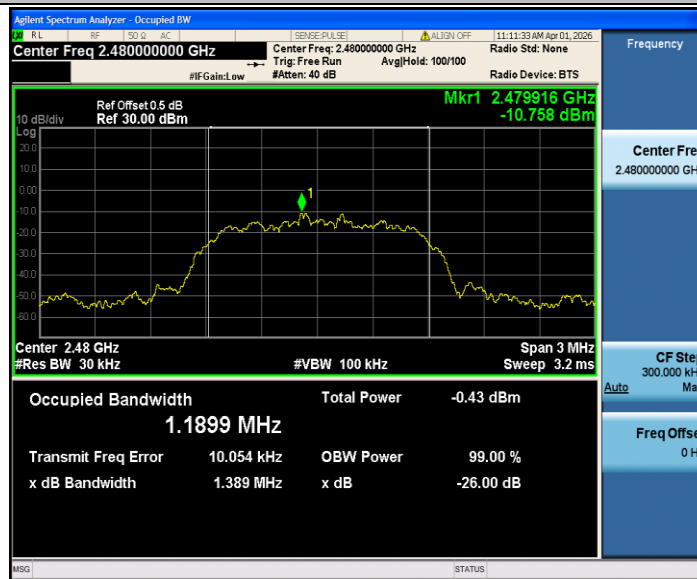
2DH5_Ant1_2402



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	-3.23	≤20.97	PASS
		2441	-3.53	≤20.97	PASS
		2480	-3.55	≤20.97	PASS
2DH5	Ant1	2402	-4.00	≤20.97	PASS
		2441	-4.32	≤20.97	PASS
		2480	-4.31	≤20.97	PASS
3DH5	Ant1	2402	-3.70	≤20.97	PASS
		2441	-4.04	≤20.97	PASS
		2480	-4.10	≤20.97	PASS

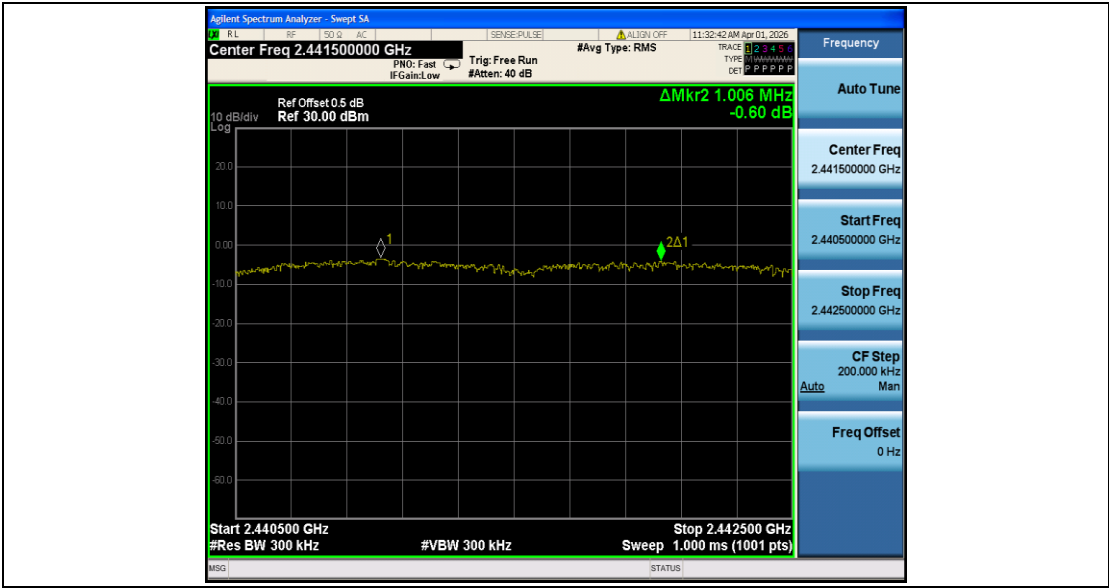
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.994	≥ 0.951	PASS
2DH5	Ant1	Hop	1.204	≥ 0.890	PASS
3DH5	Ant1	Hop	1.006	≥ 0.866	PASS

Test Graphs



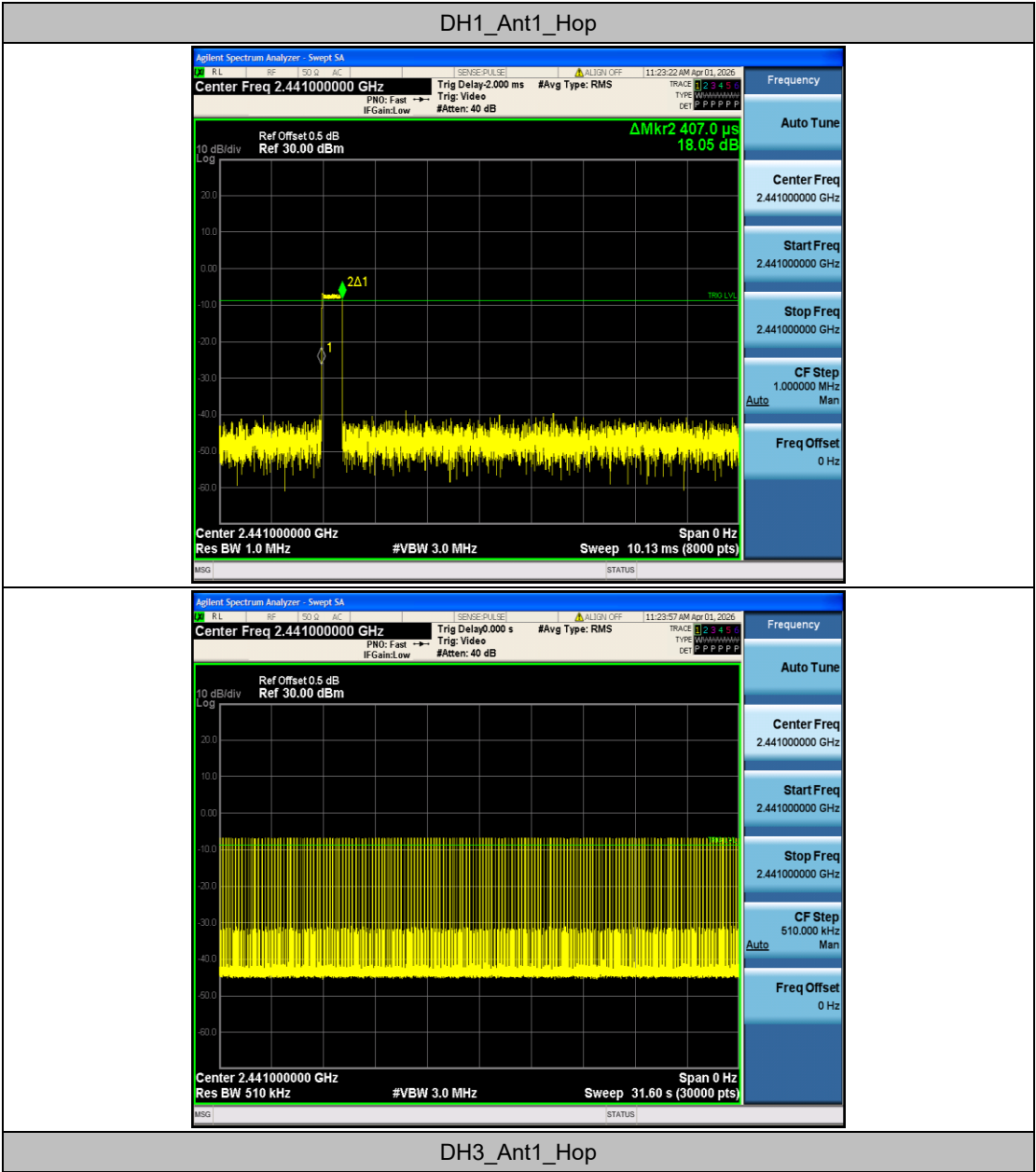


Appendix E: Time of occupancy

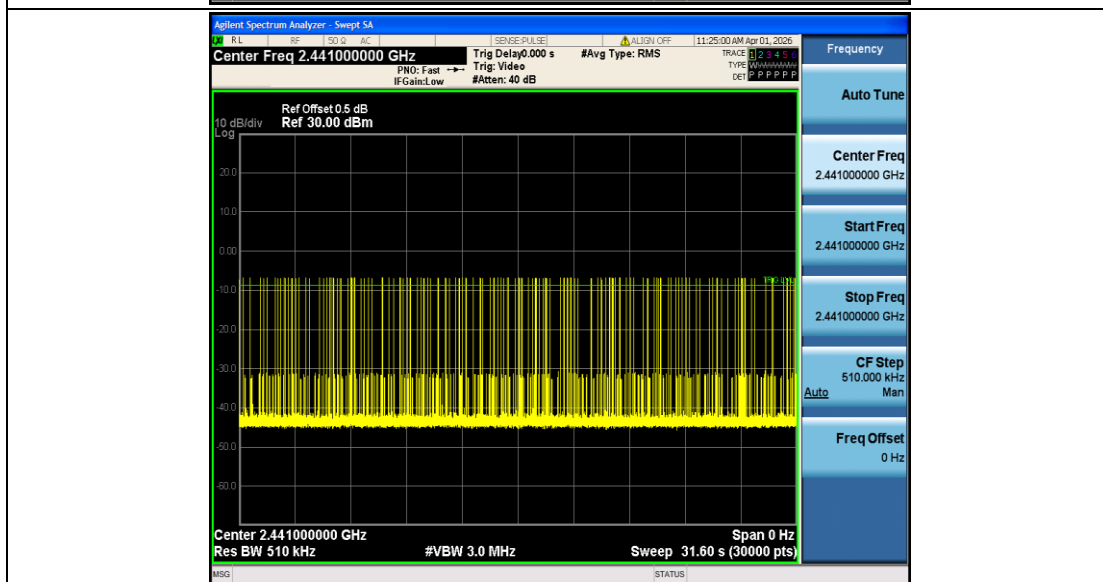
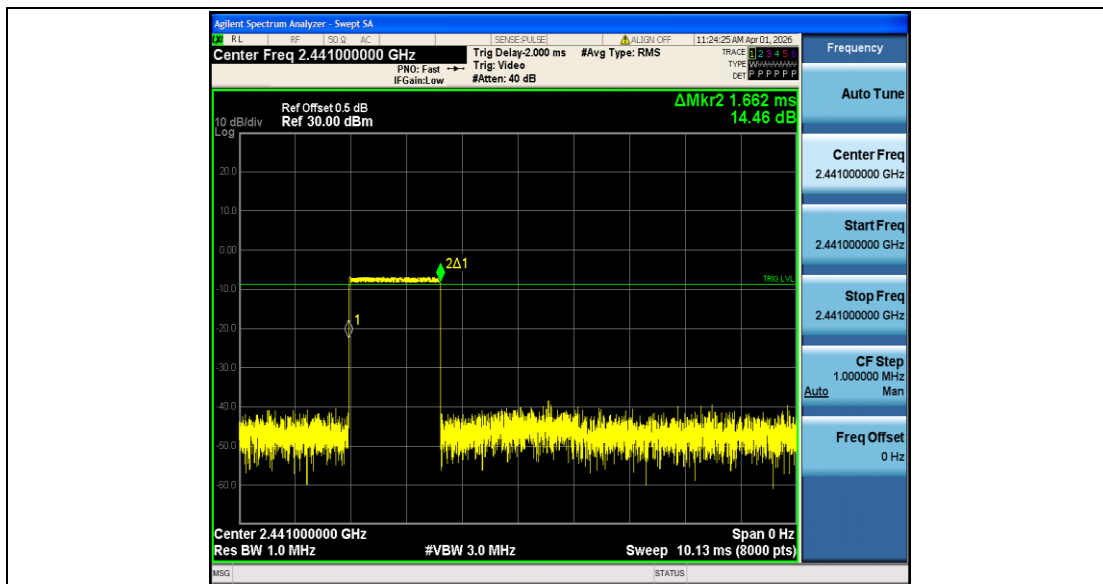
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	317	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.662	158	0.263	≤0.4	PASS
DH5	Ant1	Hop	2.911	115	0.335	≤0.4	PASS
2DH1	Ant1	Hop	0.415	318	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.667	151	0.252	≤0.4	PASS
2DH5	Ant1	Hop	2.916	100	0.292	≤0.4	PASS
3DH1	Ant1	Hop	0.415	319	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.666	162	0.27	≤0.4	PASS
3DH5	Ant1	Hop	2.916	113	0.33	≤0.4	PASS

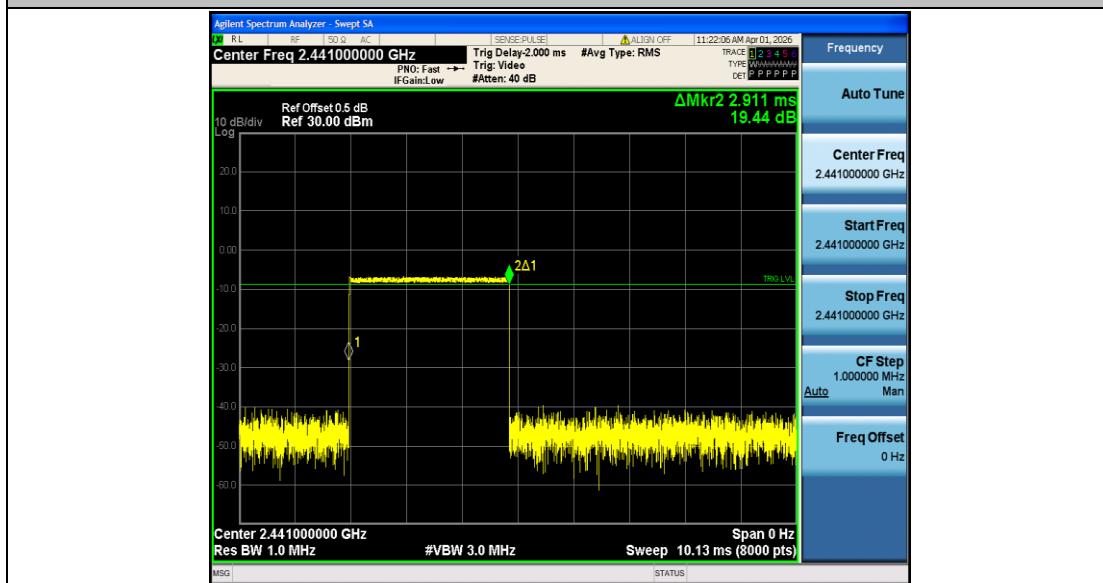
Test Graphs

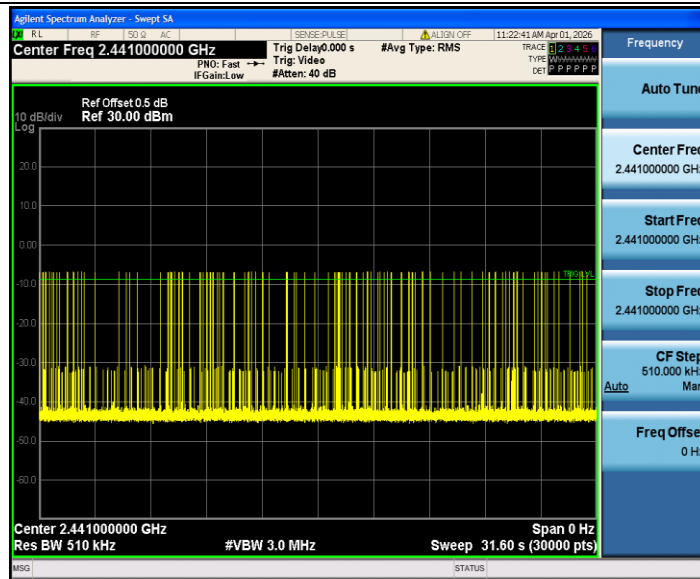


DH3_Ant1_Hop

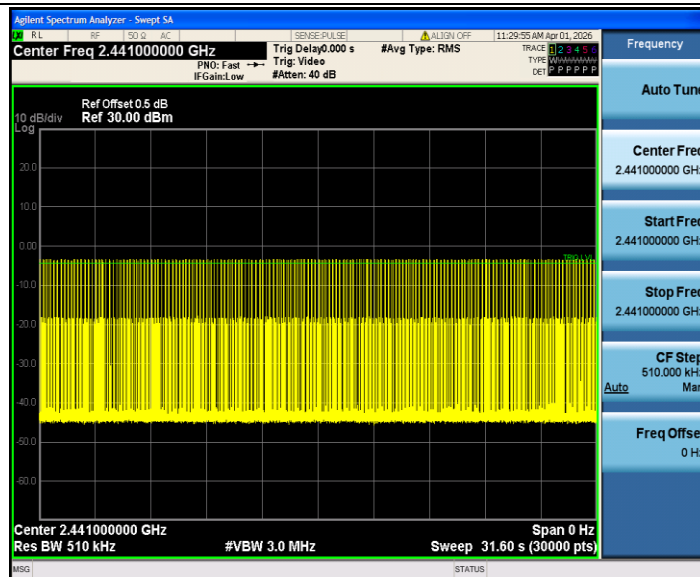
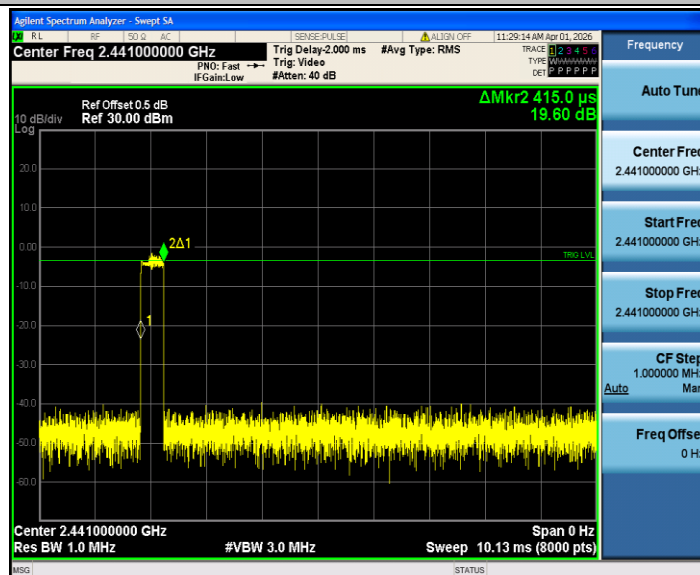


DH5_Ant1_Hop

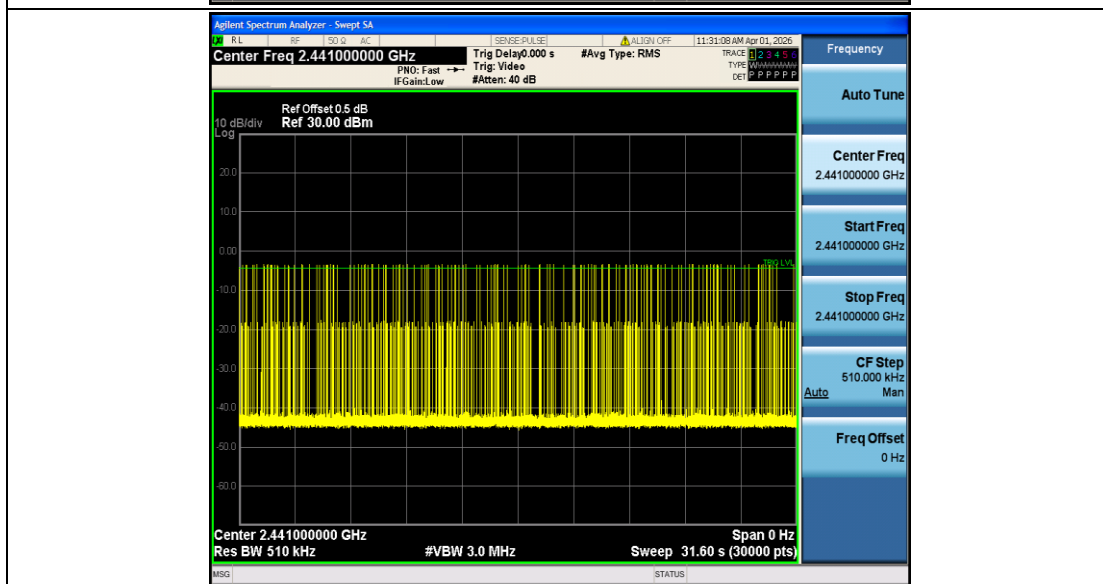
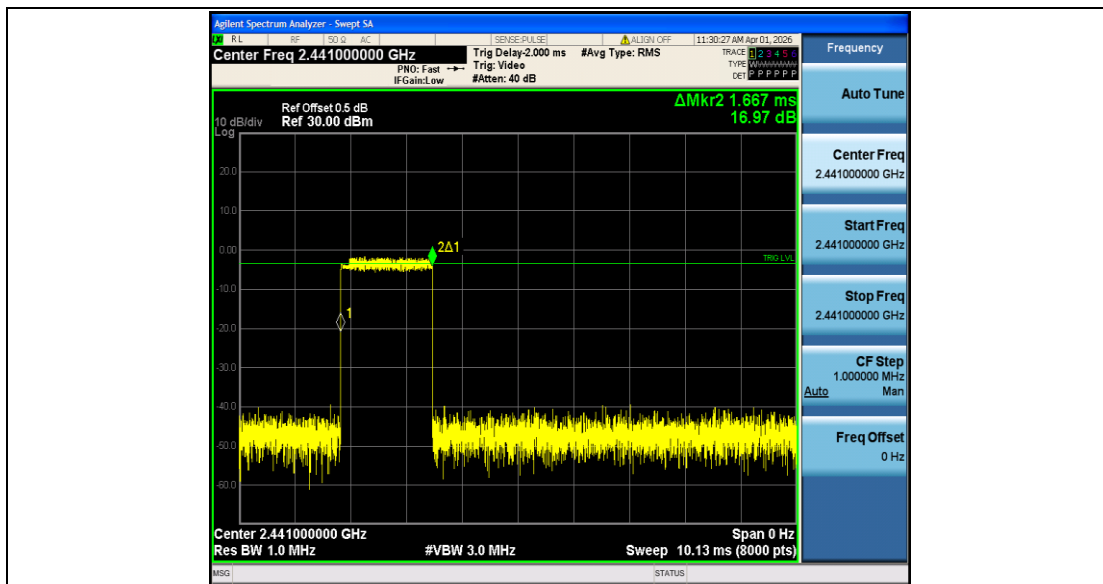




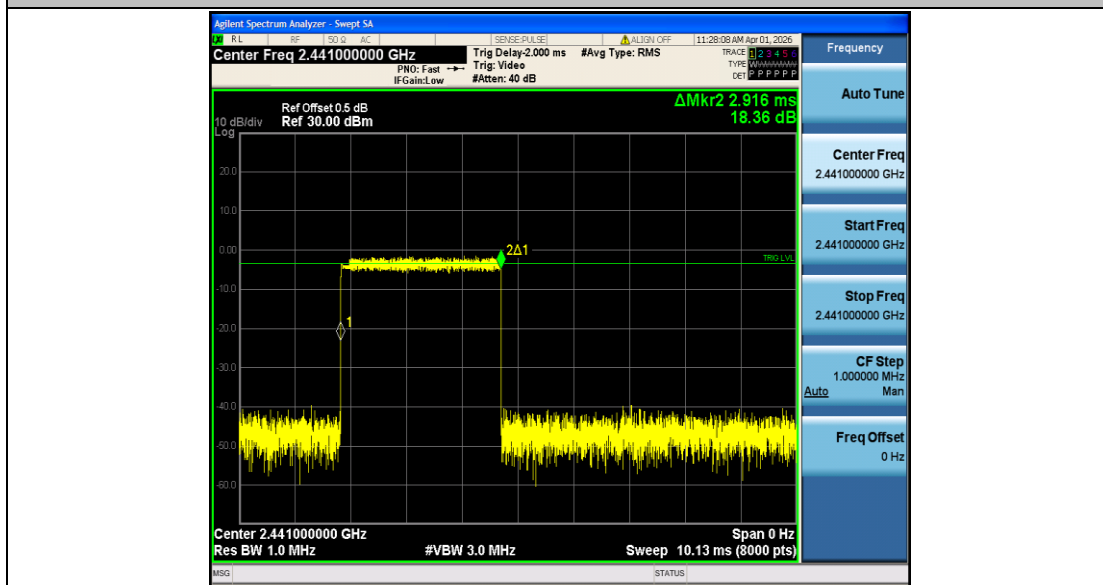
2DH1_Ant1_Hop

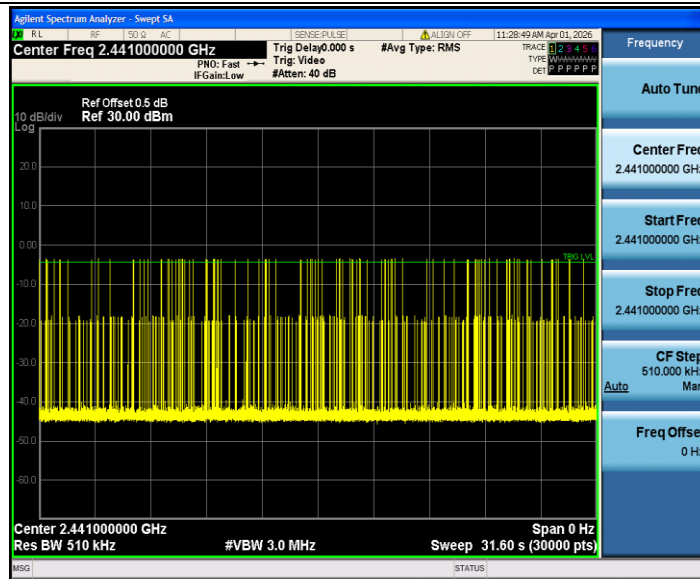


2DH3_Ant1_Hop

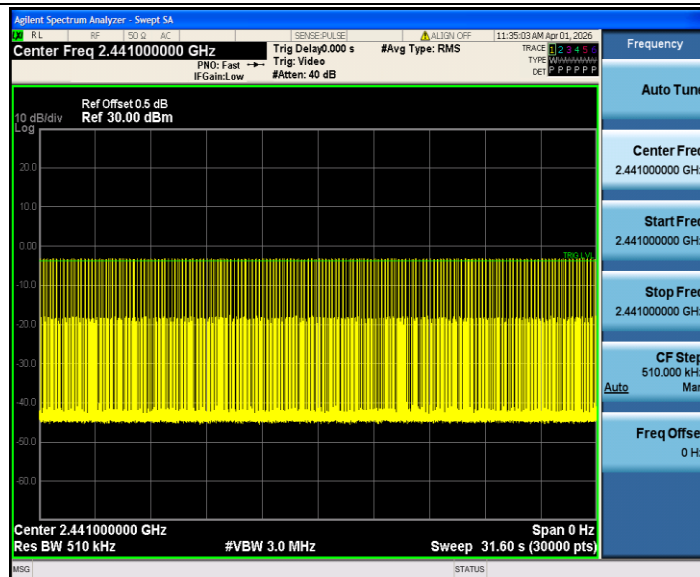
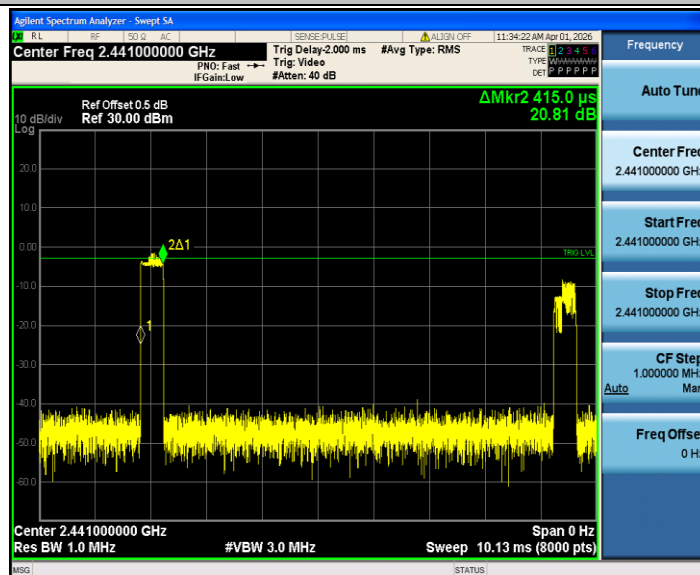


2DH5_Ant1_Hop

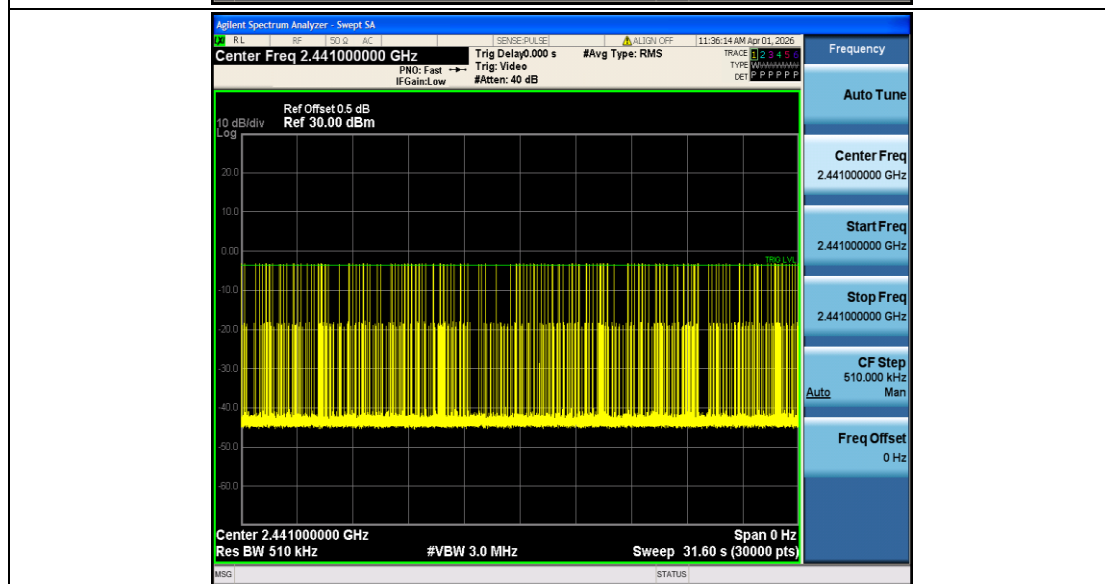
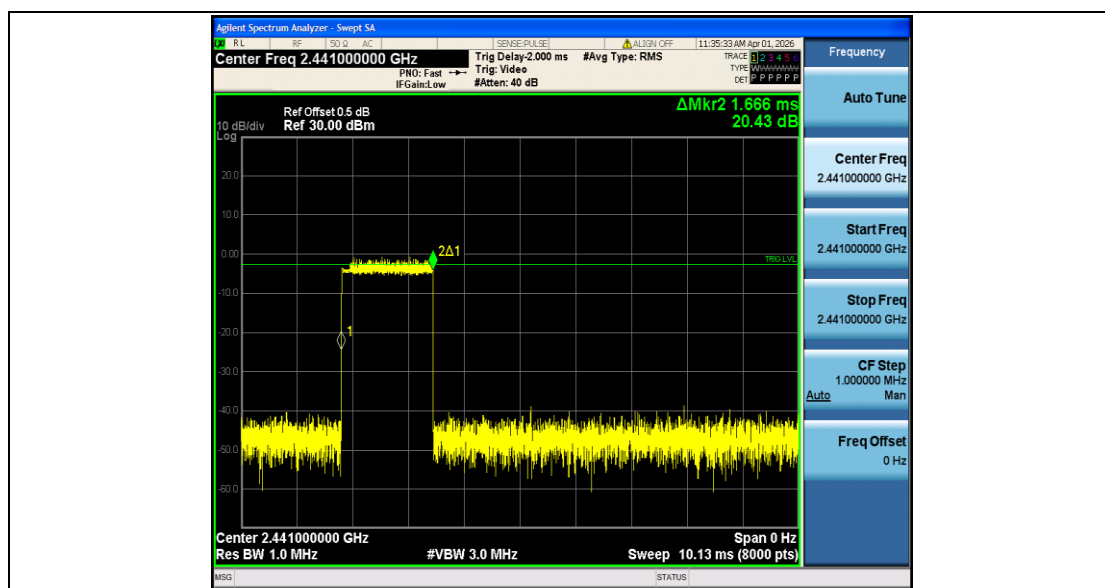




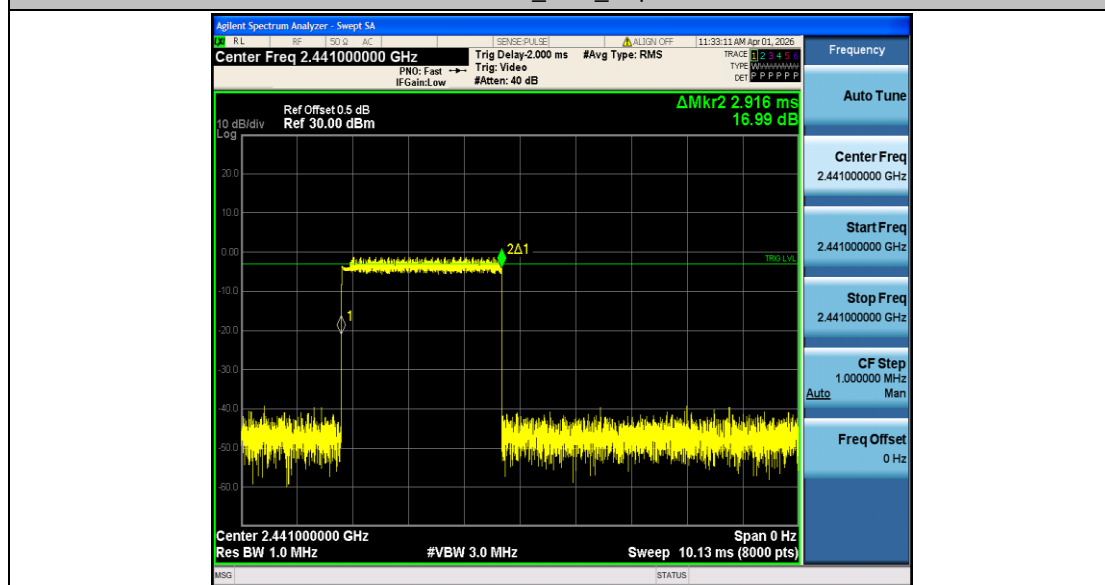
3DH1_Ant1_Hop

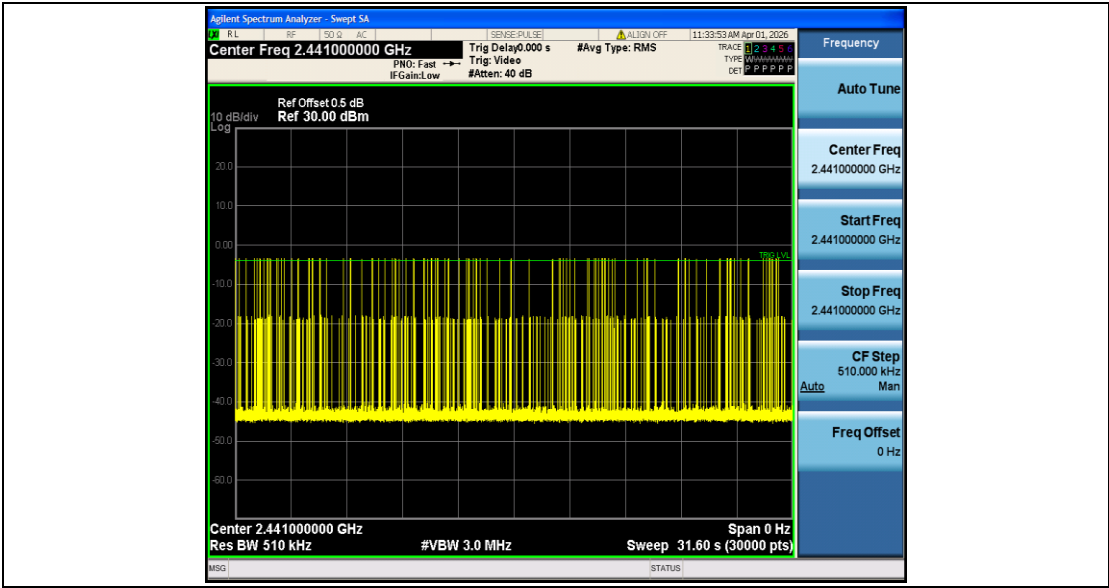


3DH3_Ant1_Hop



3DH5_Ant1_Hop



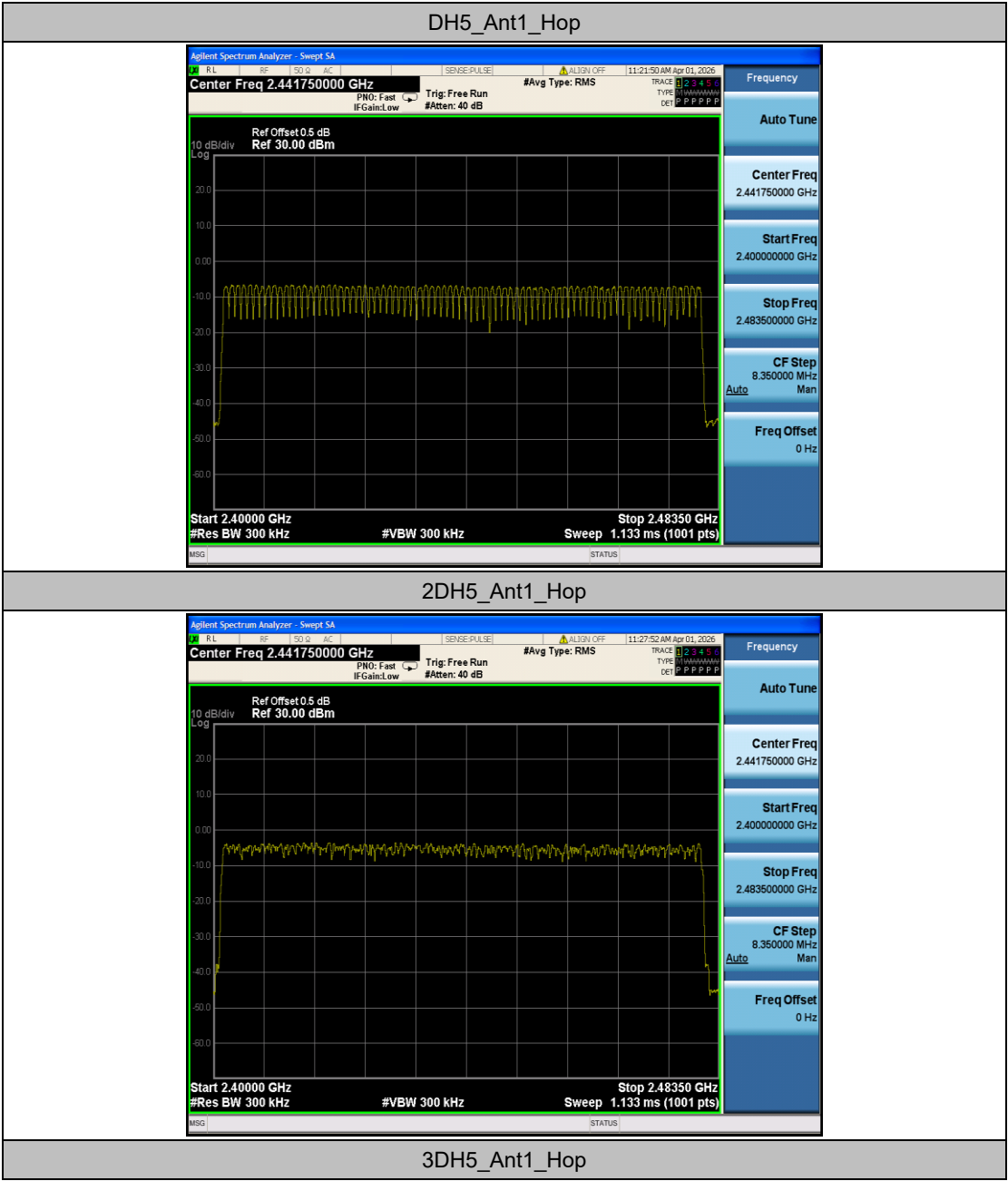


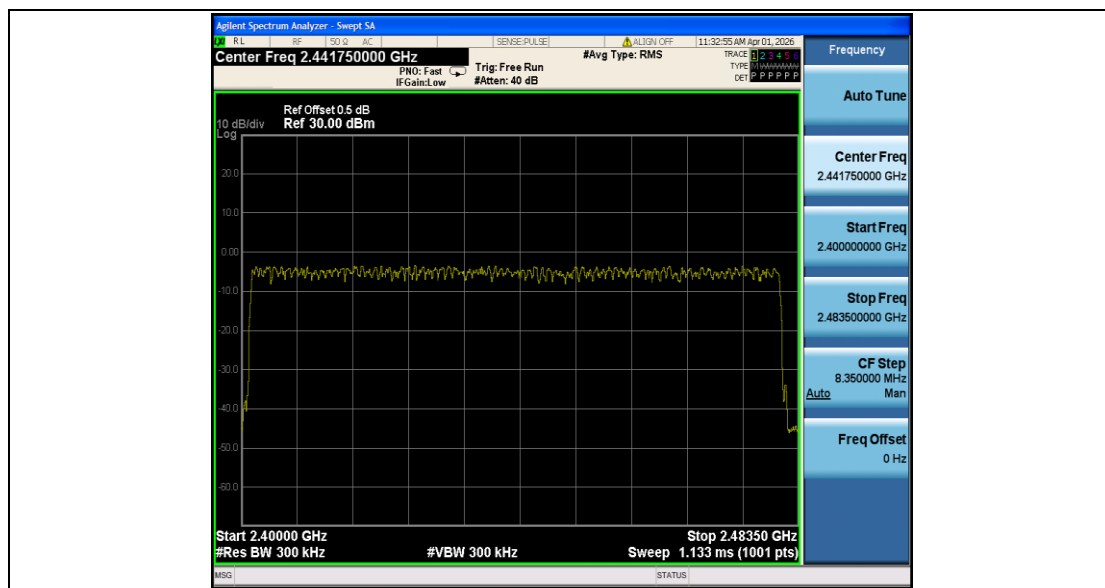
Appendix F: Number of hopping channels

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



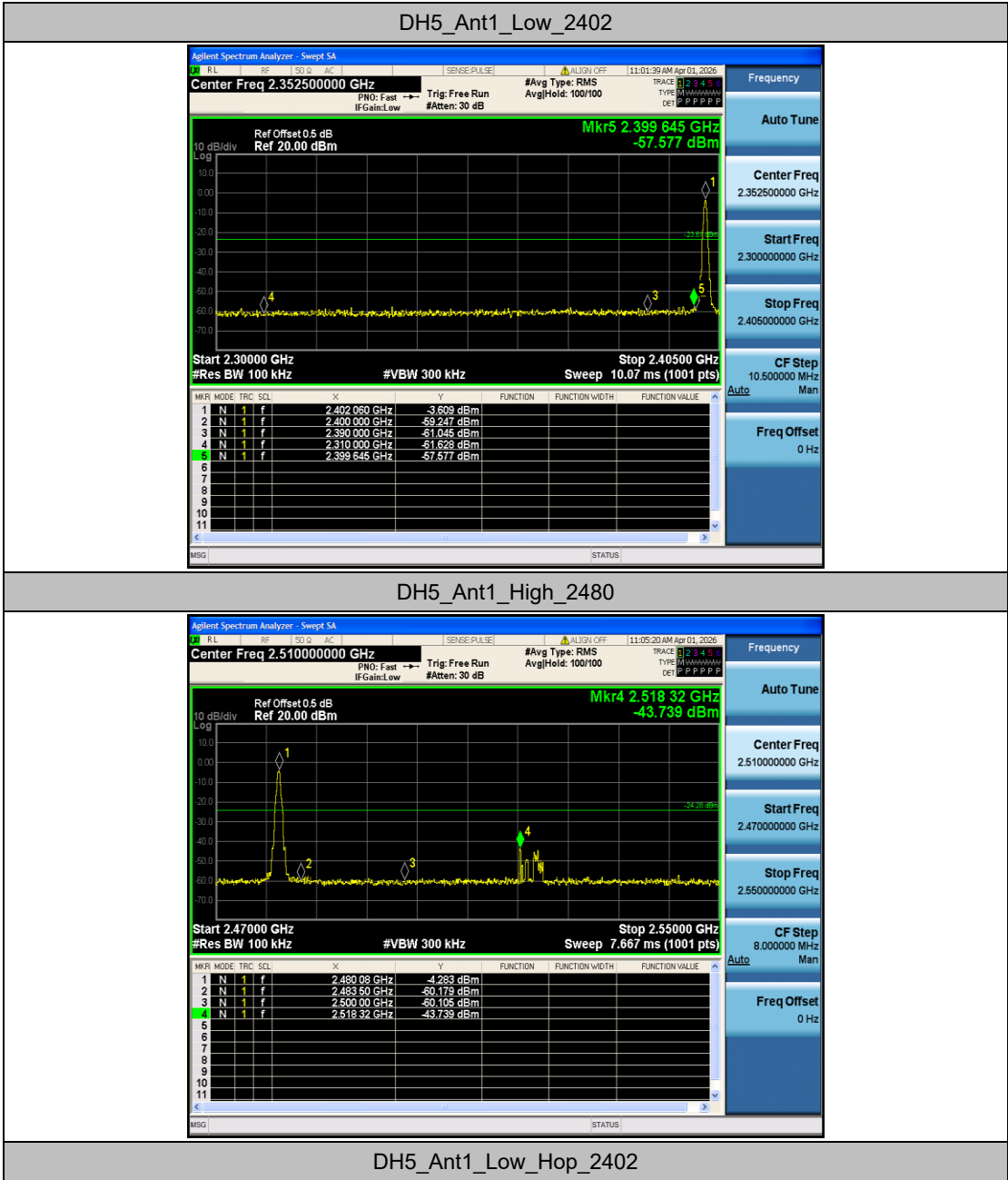


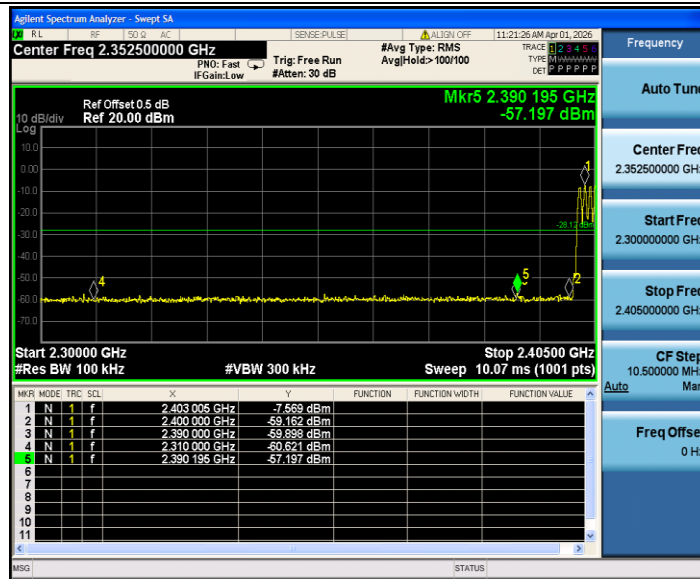
Appendix G: Band edge measurements

Test Result

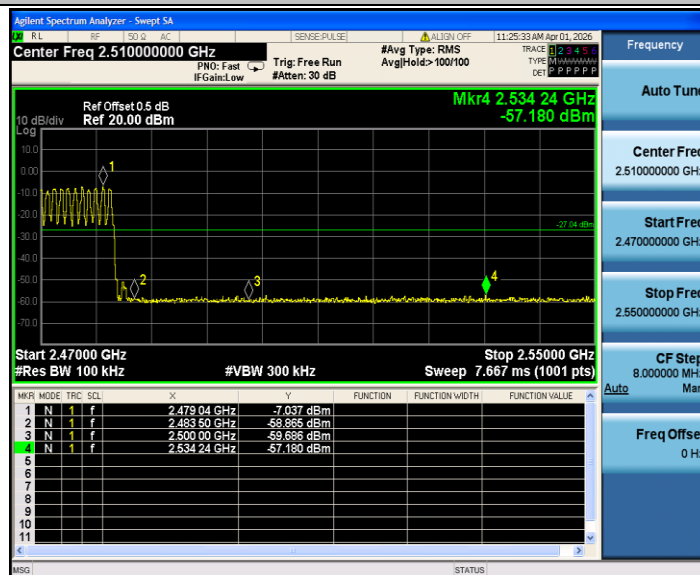
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.61	-57.58	≤-23.61	PASS
		High	2480	-4.28	-43.74	≤-24.28	PASS
		Low	Hop_2402	-8.12	-57.2	≤-28.12	PASS
		High	Hop_2480	-7.04	-57.18	≤-27.04	PASS
2DH5	Ant1	Low	2402	-9.75	-57.36	≤-29.75	PASS
		High	2480	-8.24	-47.23	≤-28.24	PASS
		Low	Hop_2402	-9.07	-58.17	≤-29.07	PASS
		High	Hop_2480	-6.76	-57.35	≤-26.76	PASS
3DH5	Ant1	Low	2402	-7.79	-56.89	≤-27.79	PASS
		High	2480	-7.65	-57.27	≤-27.65	PASS
		Low	Hop_2402	-3.47	-57.38	≤-23.47	PASS
		High	Hop_2480	-6.95	-57.51	≤-26.95	PASS

Test Graphs

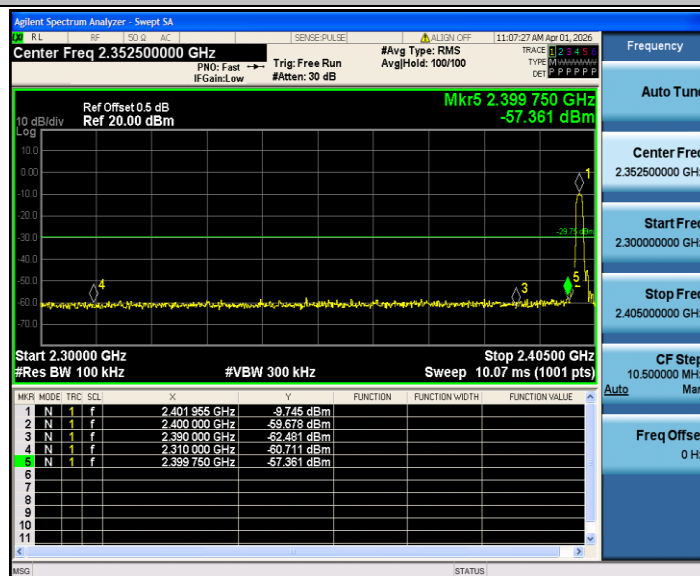




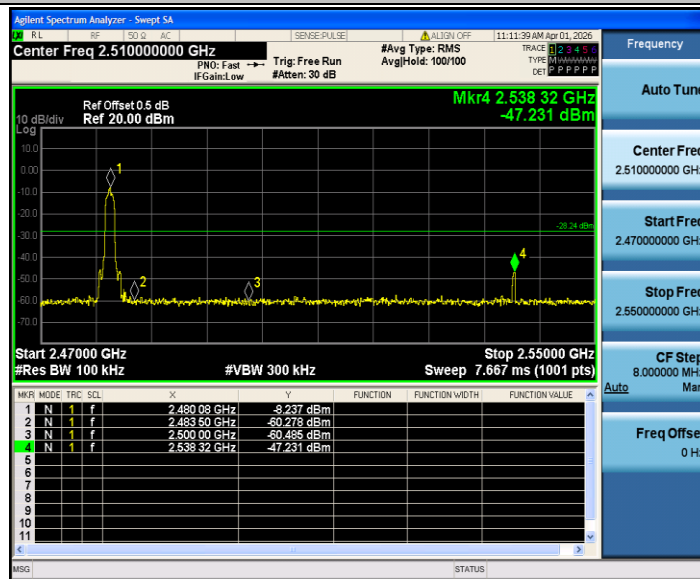
DH5_Ant1_High_Hop_2480



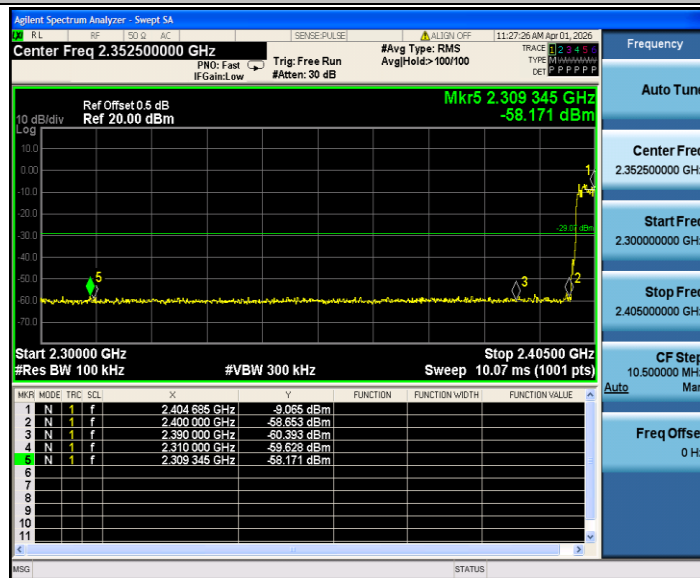
2DH5_Ant1_Low_2402



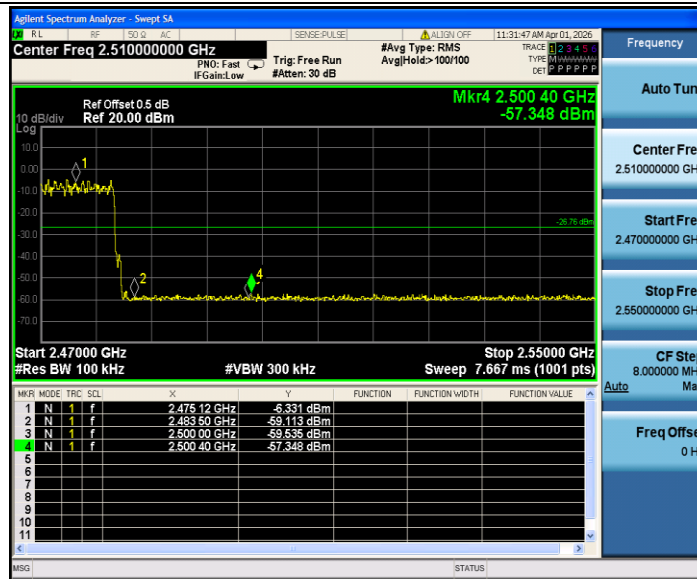
2DH5_Ant1_High_2480



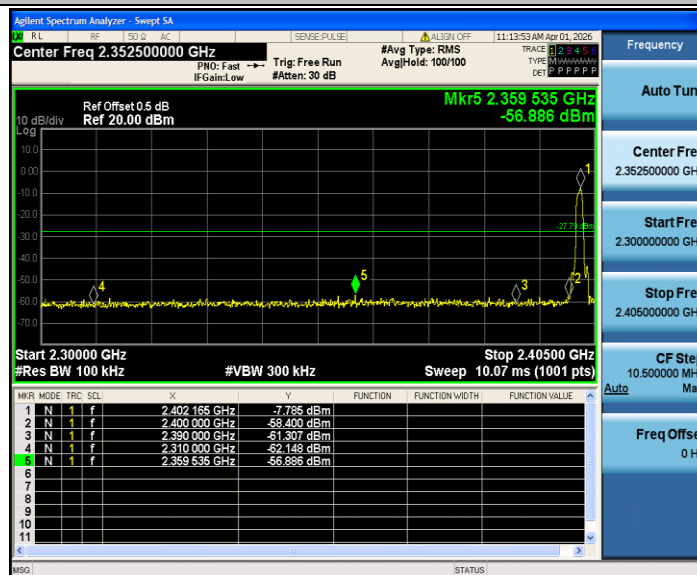
2DH5_Ant1_Low_Hop_2402



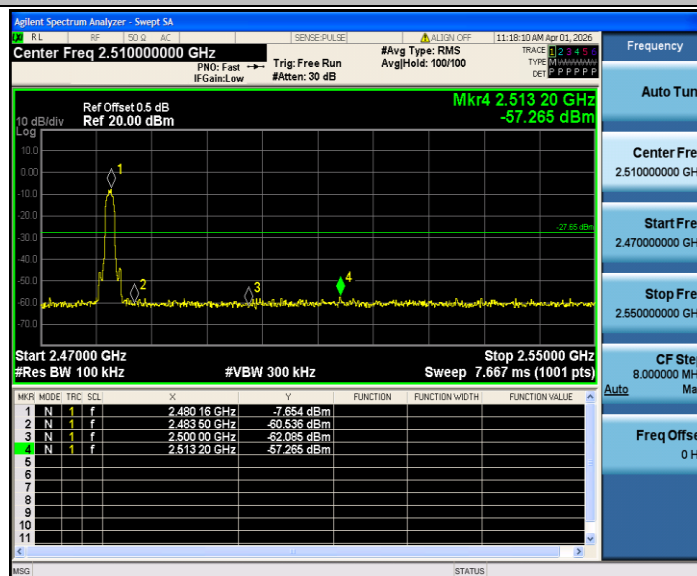
2DH5_Ant1_High_Hop_2480



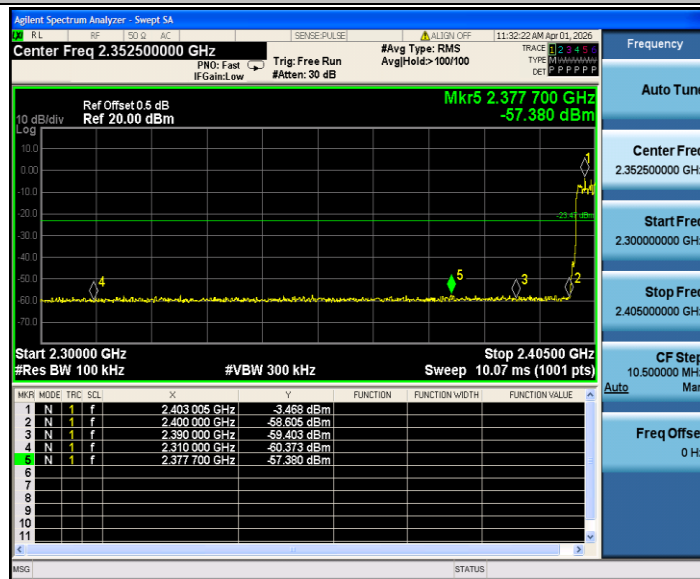
3DH5_Ant1_Low_2402



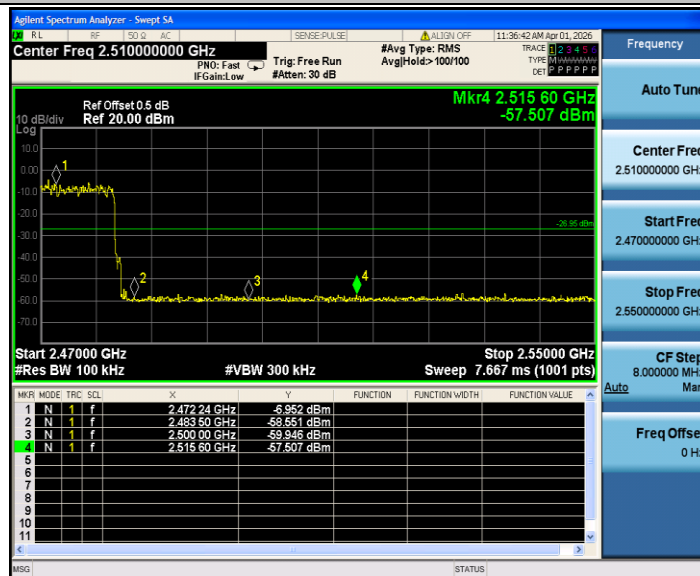
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

Test Result

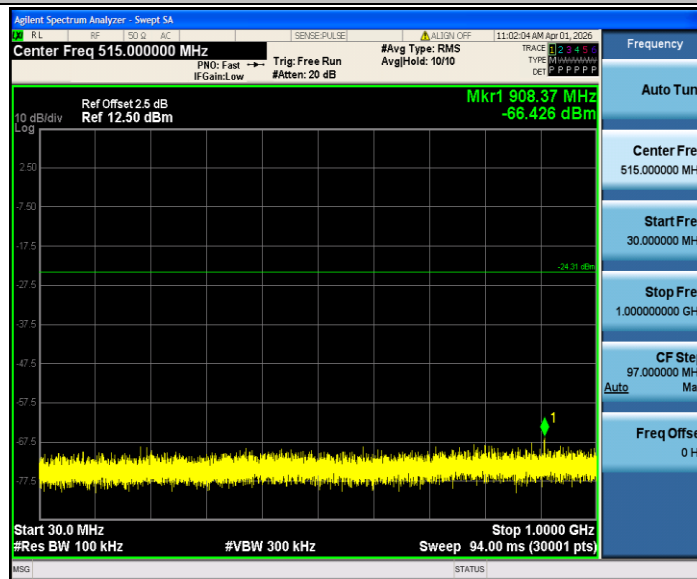
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.31	-4.31	---	PASS
			30~1000	-4.31	-66.43	≤-24.31	PASS
			1000~26500	-4.31	-35.64	≤-24.31	PASS
		2441	Reference	-4.63	-4.63	---	PASS
			30~1000	-4.63	-68.22	≤-24.63	PASS
			1000~26500	-4.63	-38.09	≤-24.63	PASS
		2480	Reference	-4.89	-4.89	---	PASS
			30~1000	-4.89	-67.99	≤-24.89	PASS
			1000~26500	-4.89	-47.56	≤-24.89	PASS
2DH5	Ant1	2402	Reference	-10.89	-10.89	---	PASS
			30~1000	-10.89	-67.68	≤-30.89	PASS
			1000~26500	-10.89	-35.45	≤-30.89	PASS
		2441	Reference	-8.67	-8.67	---	PASS
			30~1000	-8.67	-67.73	≤-28.67	PASS
			1000~26500	-8.67	-45.75	≤-28.67	PASS
		2480	Reference	-8.74	-8.74	---	PASS
			30~1000	-8.74	-67.94	≤-28.74	PASS
			1000~26500	-8.74	-51.65	≤-28.74	PASS
3DH5	Ant1	2402	Reference	-9.02	-9.02	---	PASS
			30~1000	-9.02	-67.52	≤-29.02	PASS
			1000~26500	-9.02	-54.27	≤-29.02	PASS
		2441	Reference	-9.47	-9.47	---	PASS
			30~1000	-9.47	-66.41	≤-29.47	PASS
			1000~26500	-9.47	-54.84	≤-29.47	PASS
		2480	Reference	-9.41	-9.41	---	PASS
			30~1000	-9.41	-67.16	≤-29.41	PASS
			1000~26500	-9.41	-55.74	≤-29.41	PASS

Test Graphs

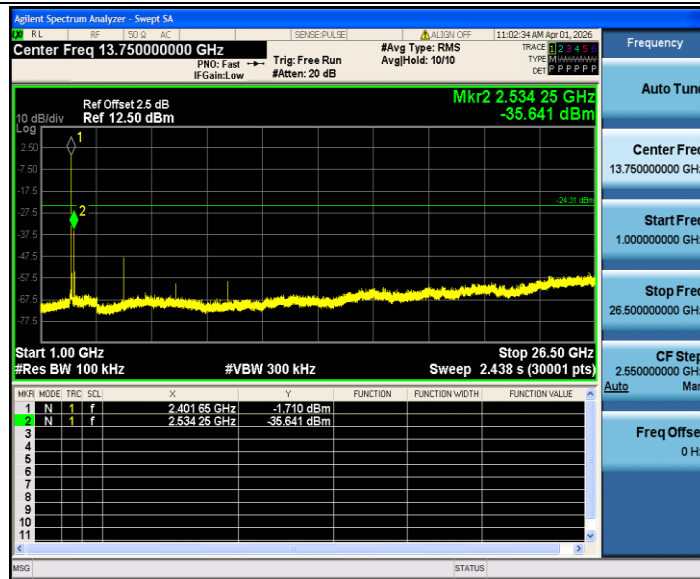
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



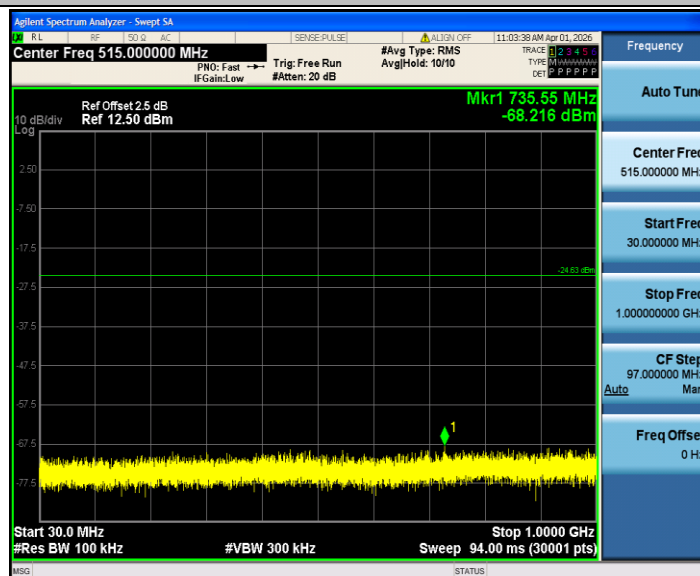
DH5_Ant1_2402_1000~26500



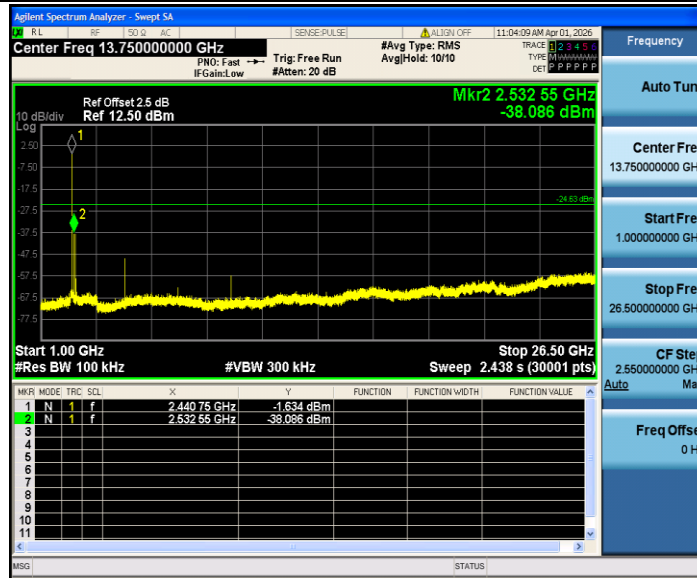
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



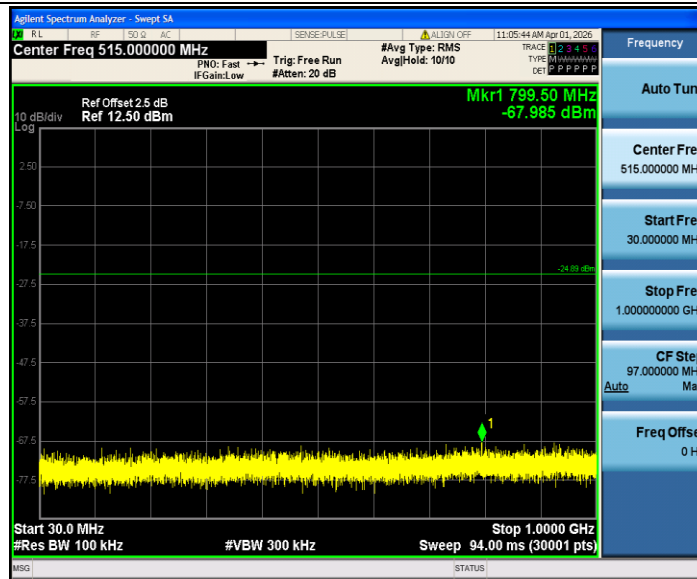
DH5_Ant1_2441_1000~26500



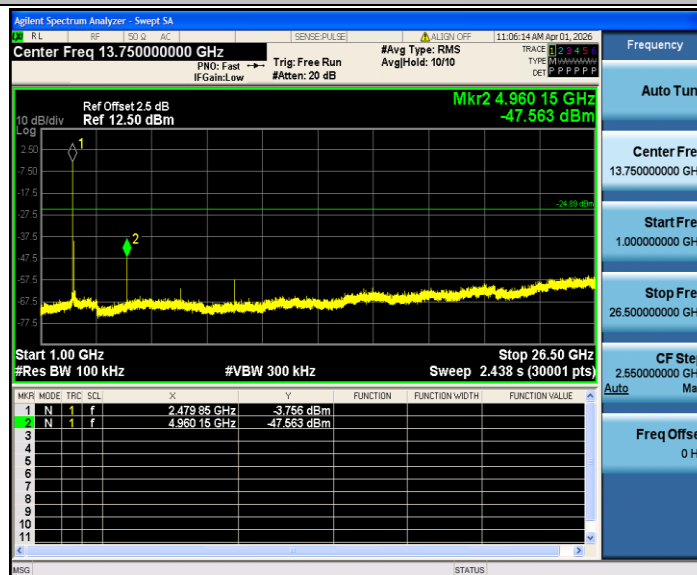
DH5_Ant1_2480_0~Reference



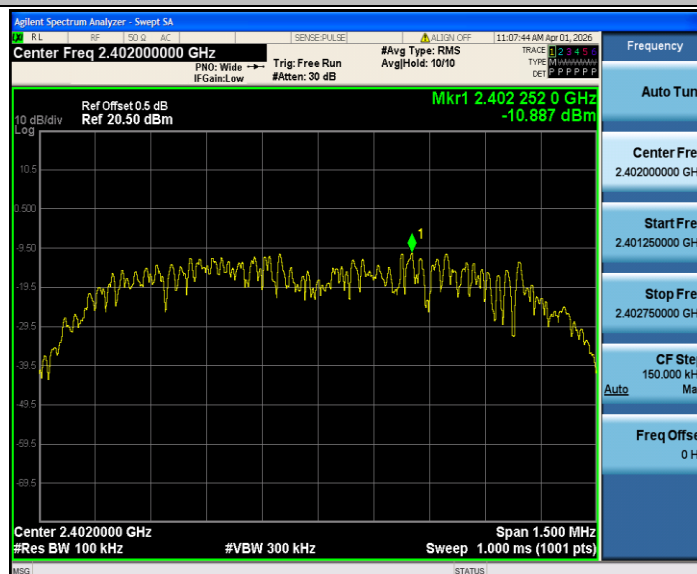
DH5_Ant1_2480_30~1000



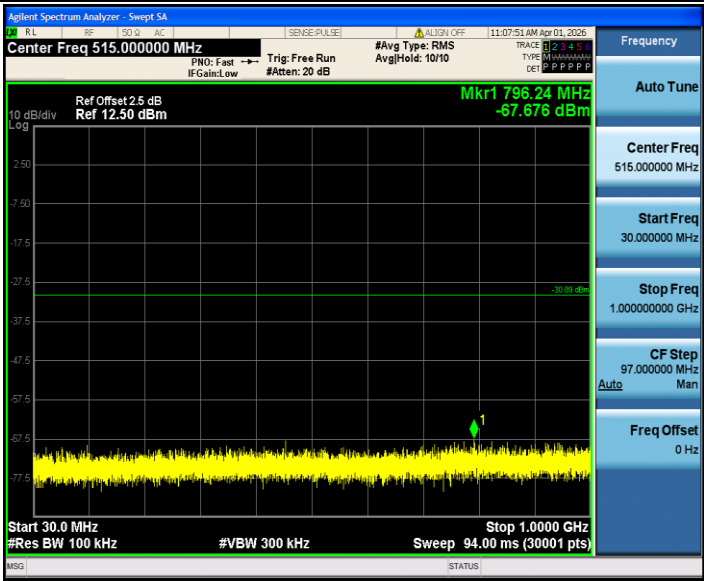
DH5_Ant1_2480_1000~26500



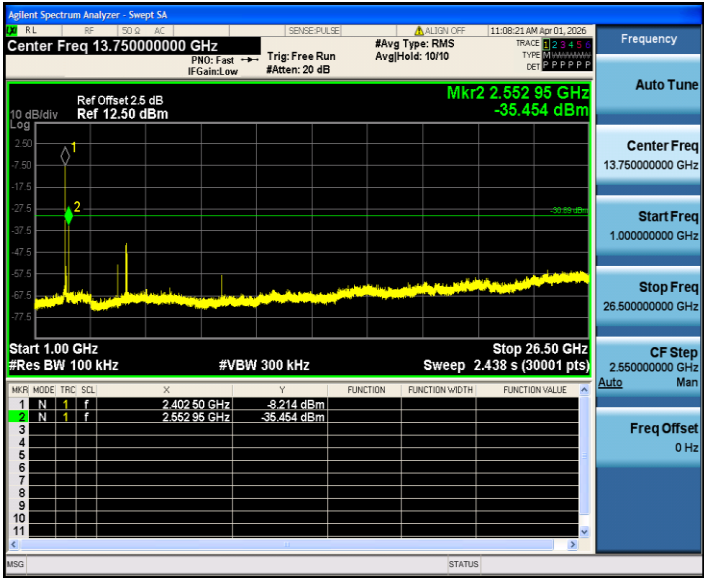
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference