

FCC Appendix RF Test Data for BT

FCC ID : 2BDCJ-E6P

Company : Xi'an Vidoar Technologies Co., Ltd.

EUT : Helmet Smart HUD

Model Number : E6+

Report No. : CTA26040700402

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	0.957	2440.547	2441.504	---	---
		2480	0.945	2479.550	2480.495	---	---
2DH5	Ant1	2402	1.329	2401.343	2402.672	---	---
		2441	1.344	2440.334	2441.678	---	---
		2480	1.335	2479.340	2480.675	---	---
3DH5	Ant1	2402	1.296	2401.364	2402.660	---	---
		2441	1.311	2440.355	2441.666	---	---
		2480	1.296	2479.364	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

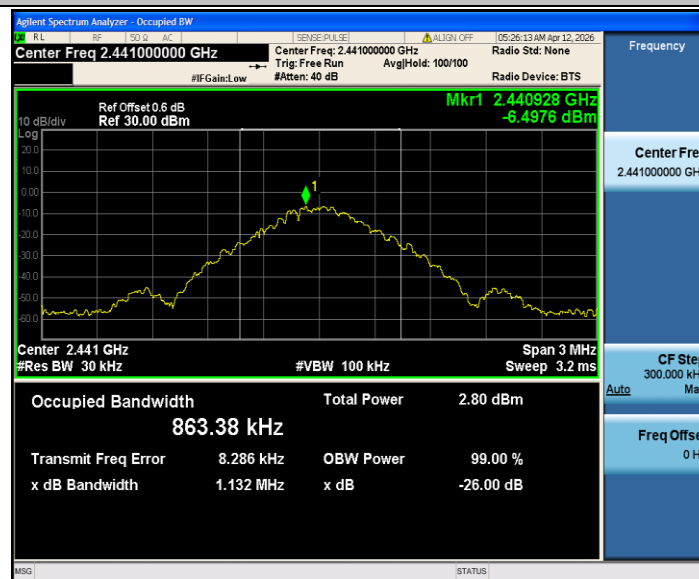
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86109	2401.5783	2402.4394	---	---
		2441	0.86338	2440.5766	2441.4400	---	---
		2480	0.86847	2479.5757	2480.4441	---	---
2DH5	Ant1	2402	1.1975	2401.4123	2402.6098	---	---
		2441	1.1889	2440.4150	2441.6039	---	---
		2480	1.1823	2479.4189	2480.6012	---	---
3DH5	Ant1	2402	1.1870	2401.4186	2402.6056	---	---
		2441	1.1865	2440.4187	2441.6052	---	---
		2480	1.1791	2479.4230	2480.6021	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



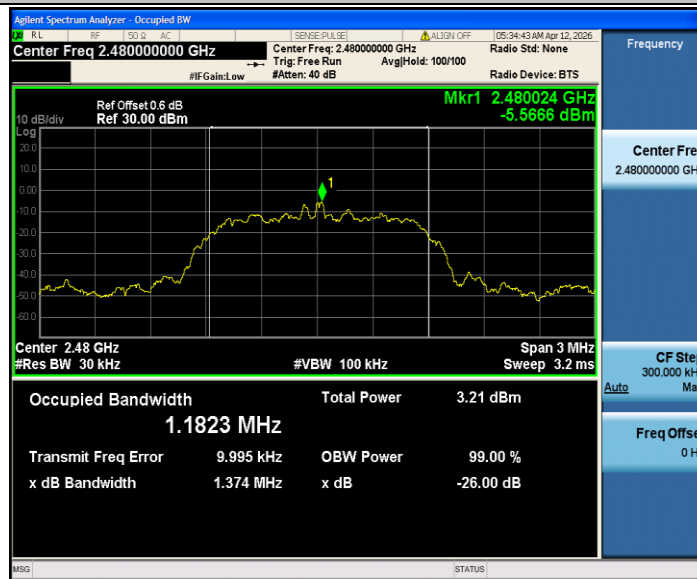
2DH5_Ant1_2402



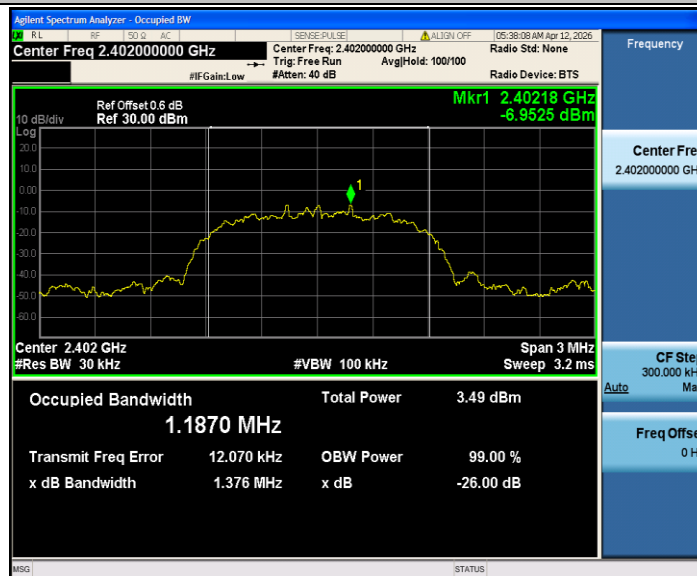
2DH5_Ant1_2441



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	-3.11	≤20.97	PASS
		2441	-3.41	≤20.97	PASS
		2480	-3.48	≤20.97	PASS
2DH5	Ant1	2402	-0.51	≤20.97	PASS
		2441	-0.89	≤20.97	PASS
		2480	-0.93	≤20.97	PASS
3DH5	Ant1	2402	-0.13	≤20.97	PASS
		2441	-0.38	≤20.97	PASS
		2480	-0.52	≤20.97	PASS

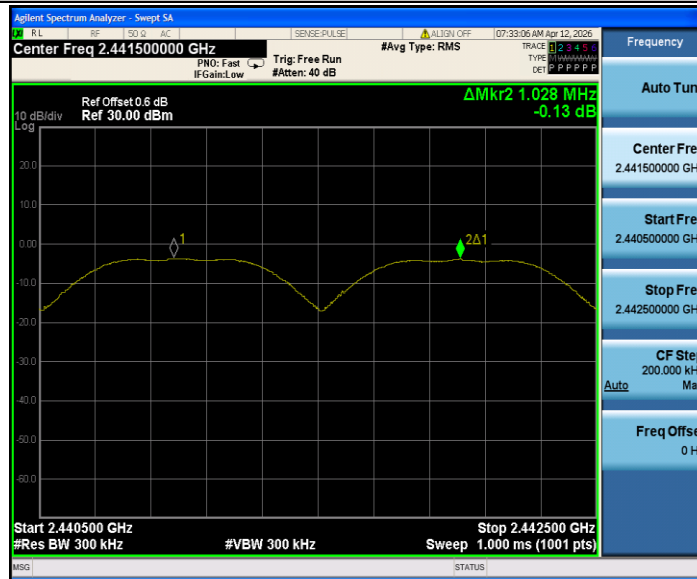
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.028	≥ 0.957	PASS
2DH5	Ant1	Hop	1.008	≥ 0.896	PASS
3DH5	Ant1	Hop	1.008	≥ 0.874	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

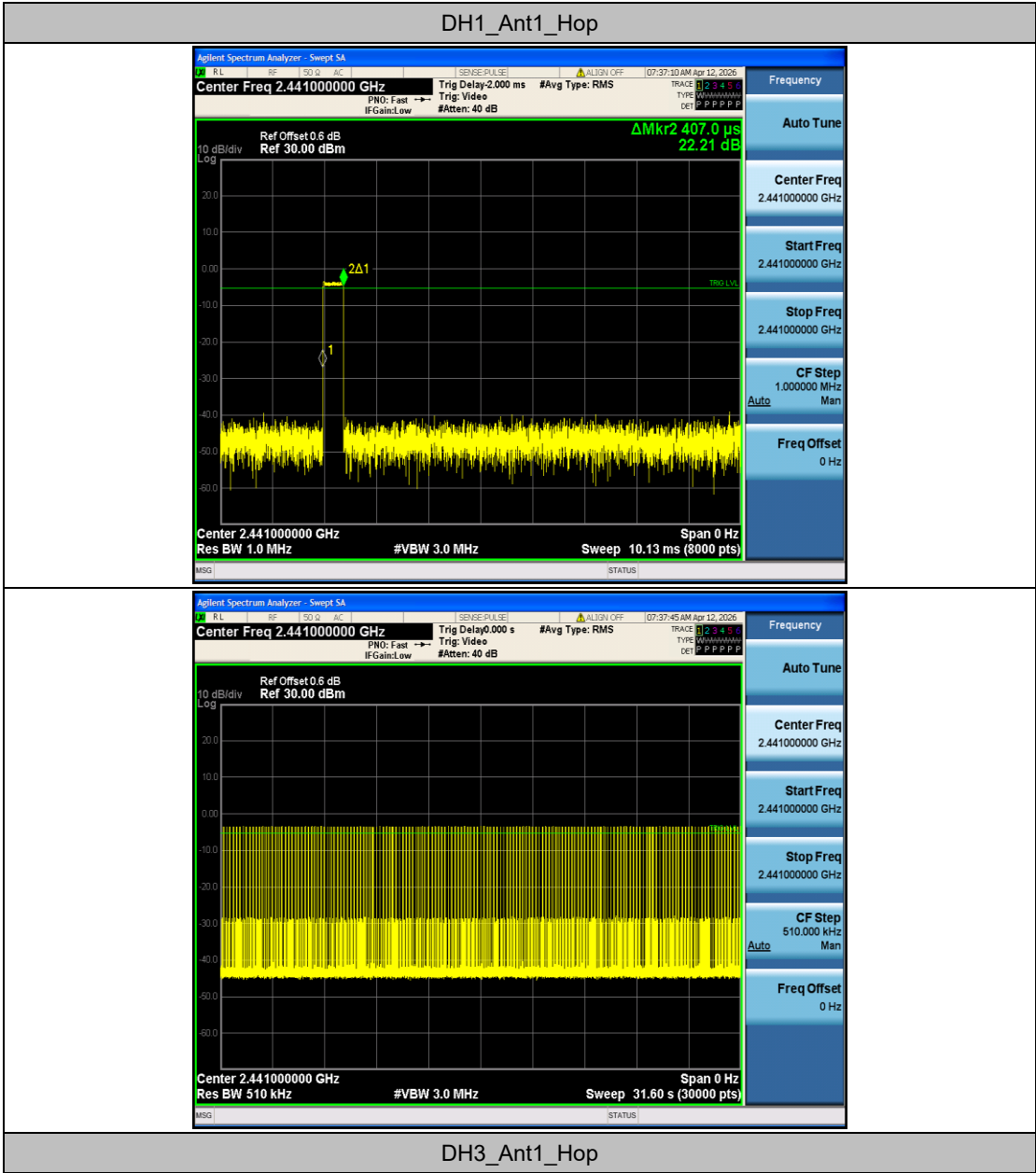


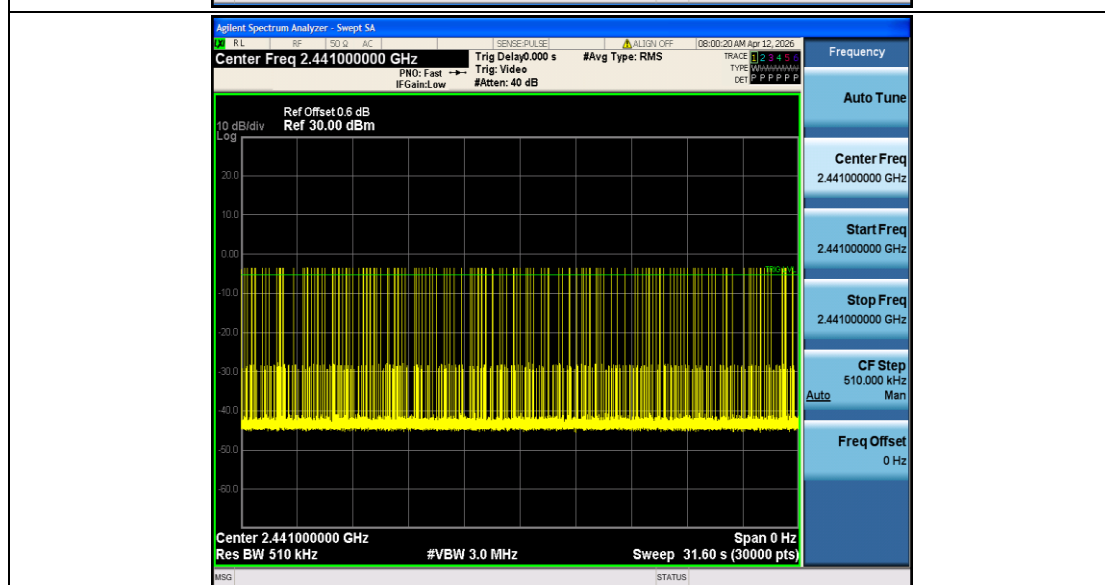
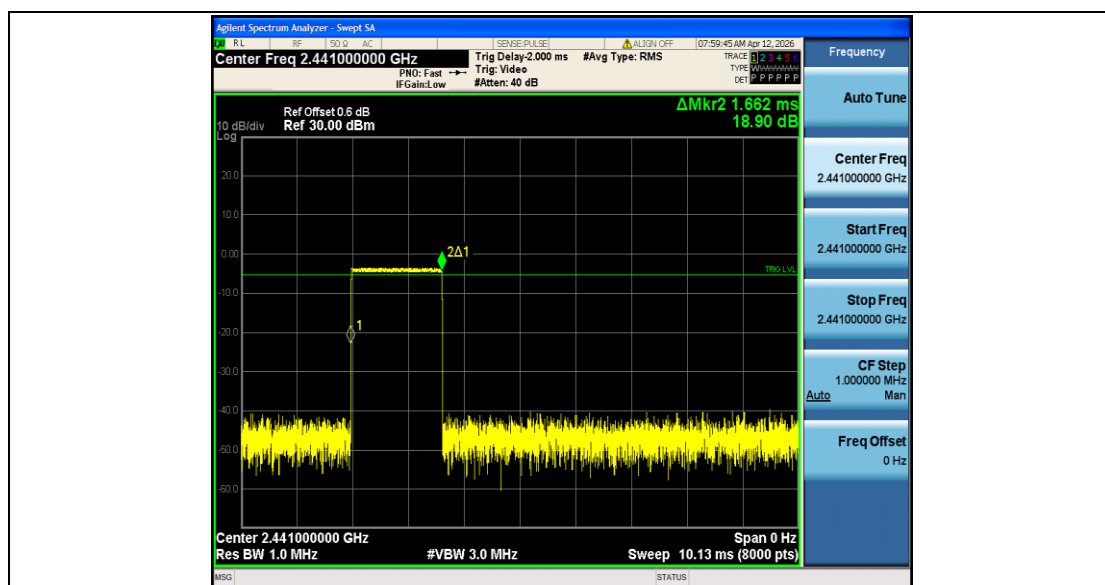
Appendix E: Time of occupancy

Test Result

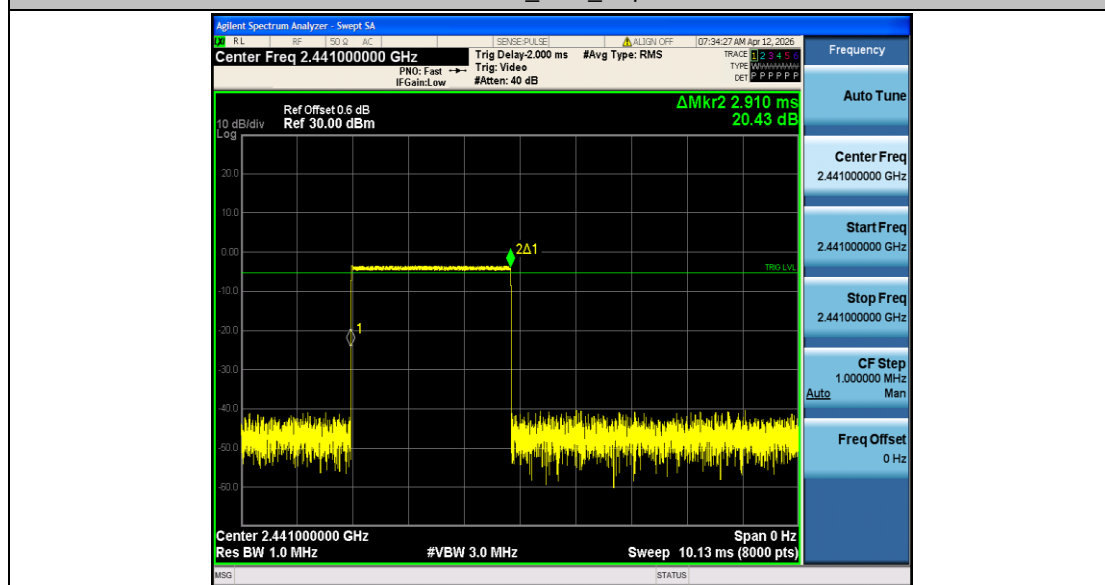
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	319	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.662	157	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.910	102	0.297	≤0.4	PASS
2DH1	Ant1	Hop	0.415	319	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	159	0.265	≤0.4	PASS
2DH5	Ant1	Hop	2.916	96	0.28	≤0.4	PASS
3DH1	Ant1	Hop	0.417	316	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.666	158	0.263	≤0.4	PASS
3DH5	Ant1	Hop	2.917	104	0.303	≤0.4	PASS

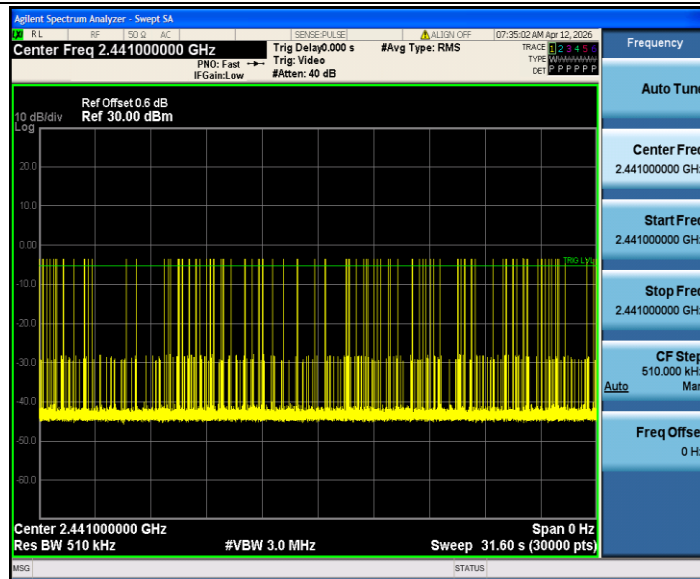
Test Graphs



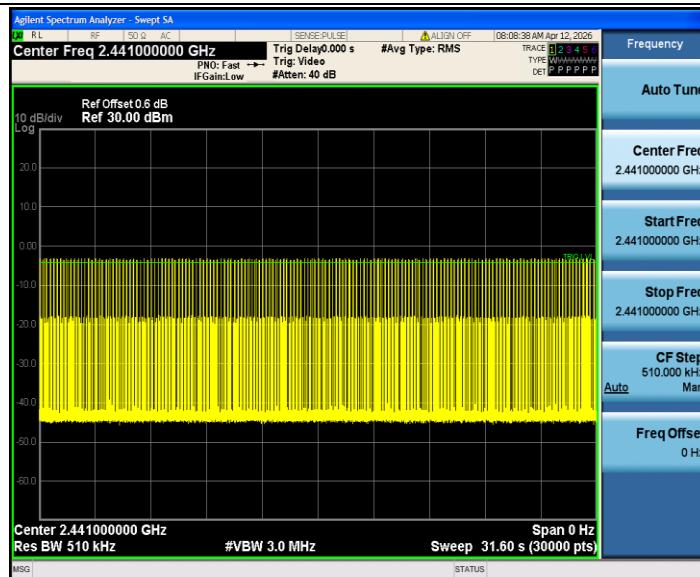
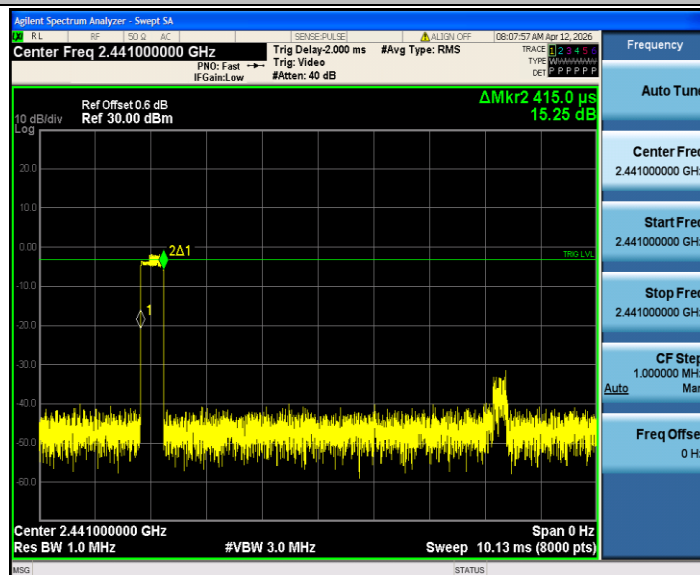


DH5_Ant1_Hop

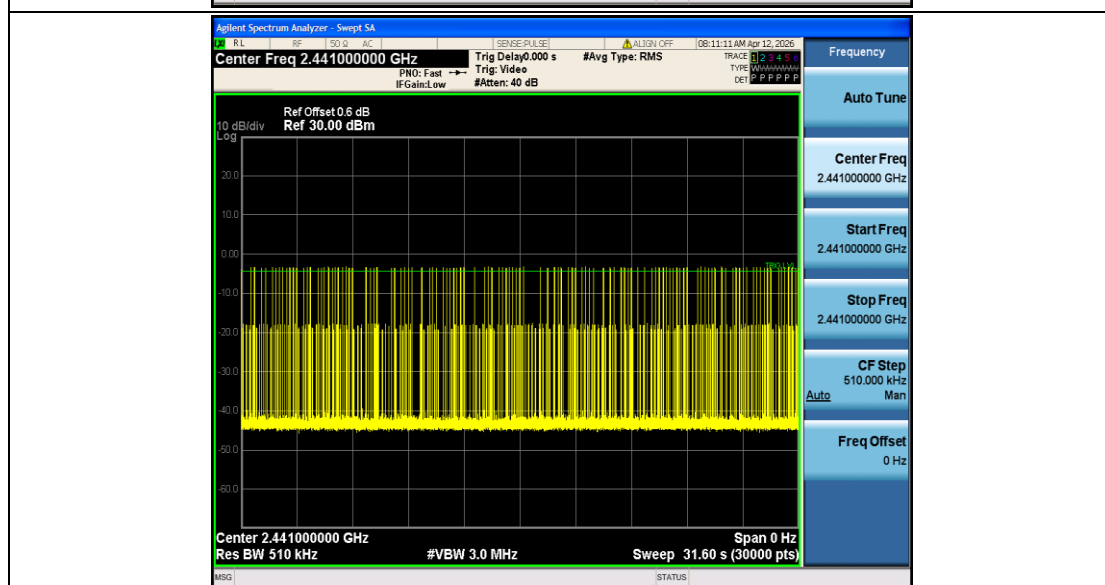
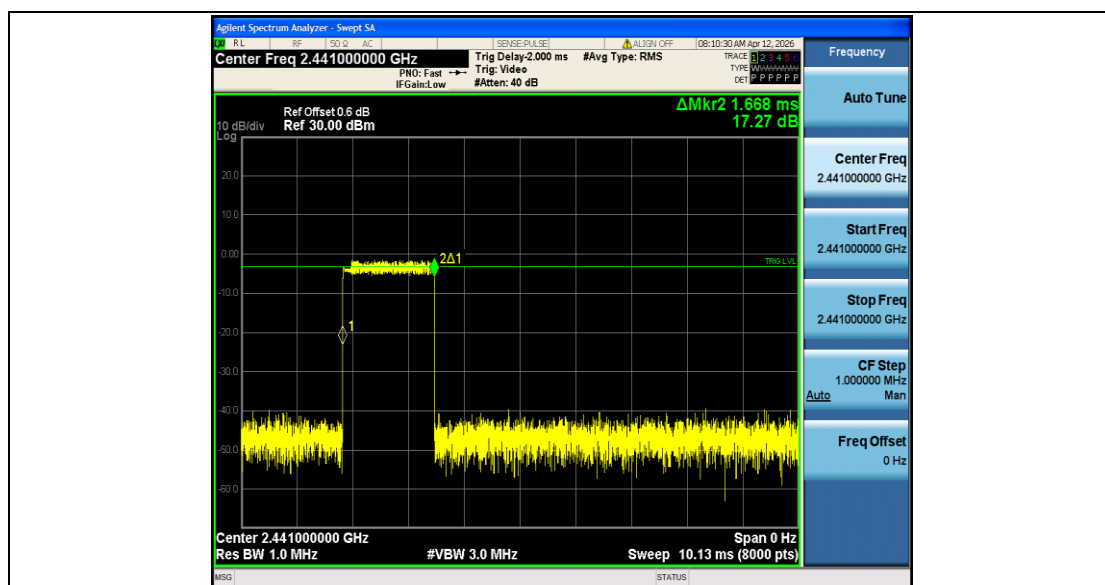




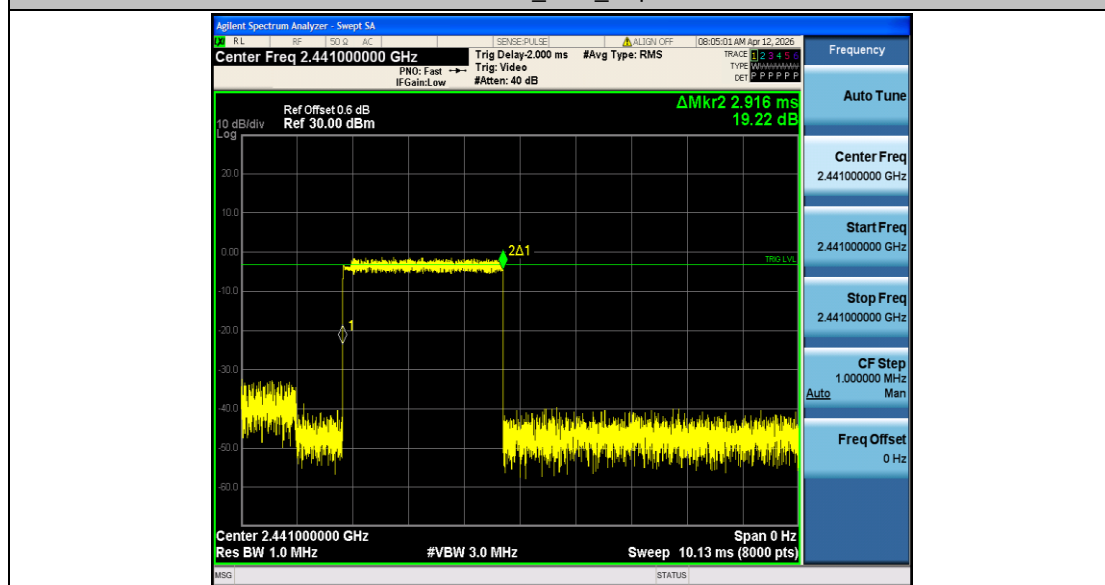
2DH1_Ant1_Hop

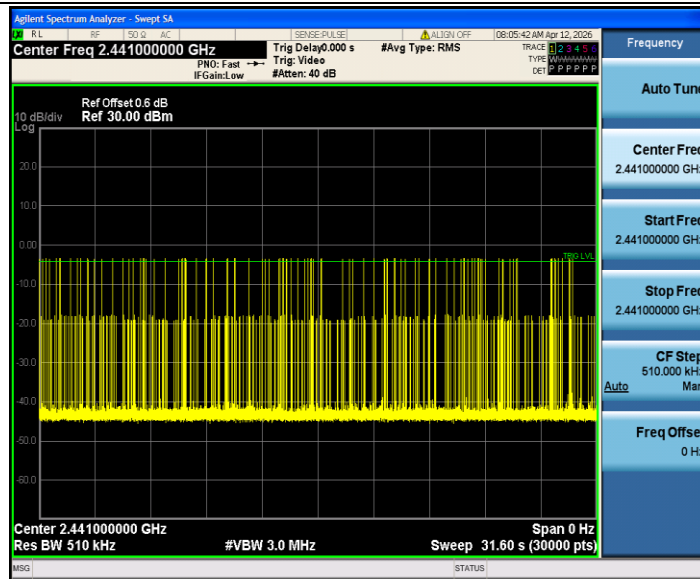


2DH3_Ant1_Hop

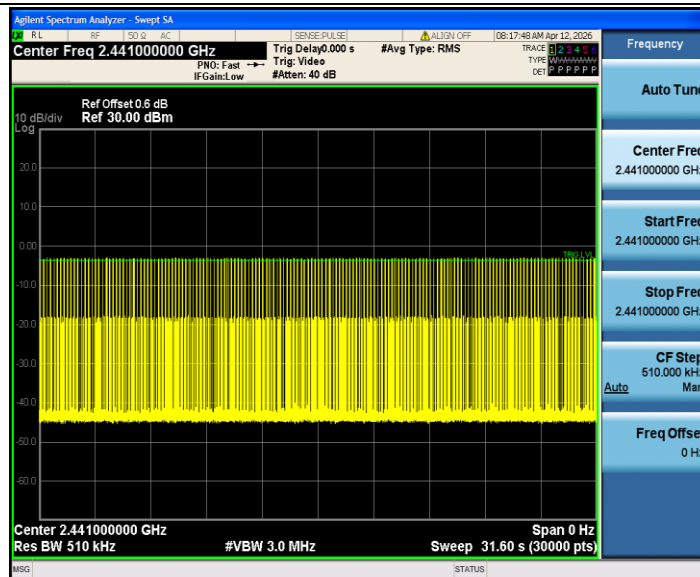
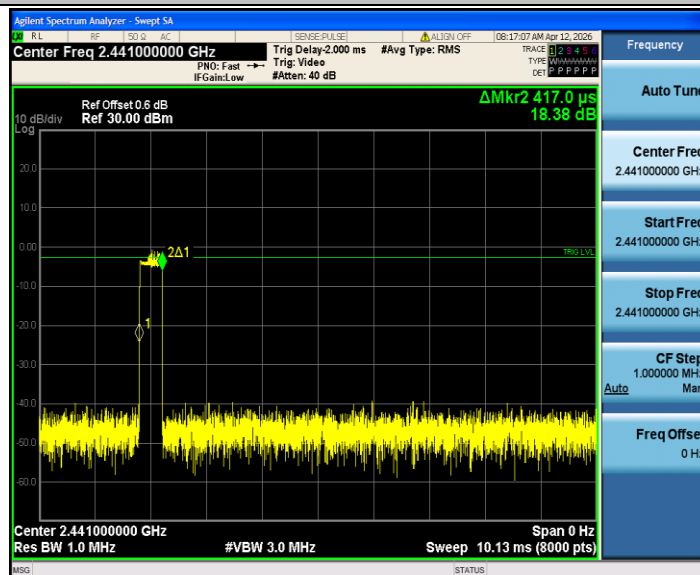


2DH5_Ant1_Hop

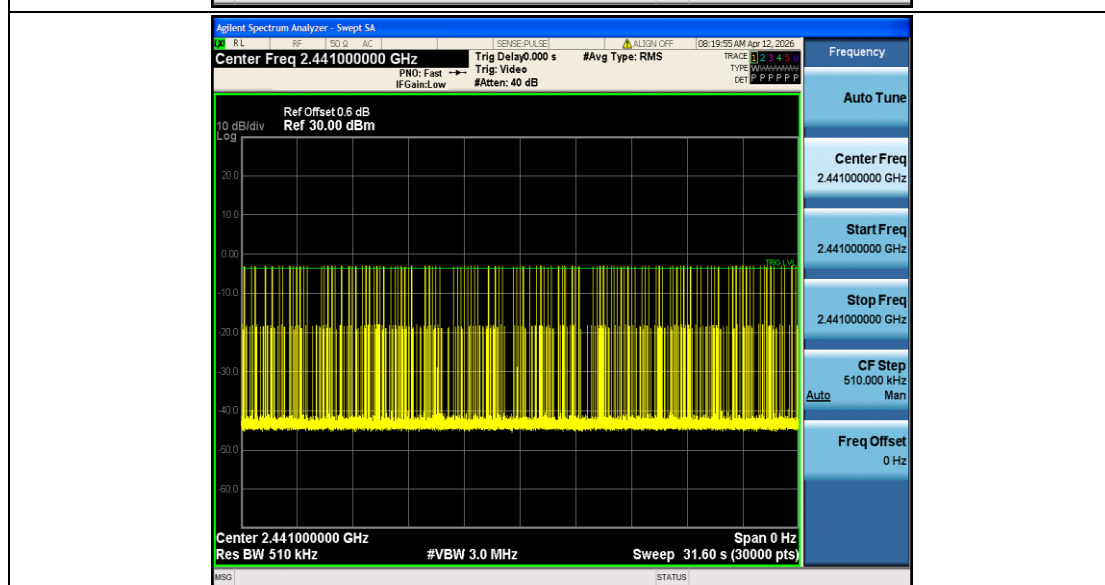
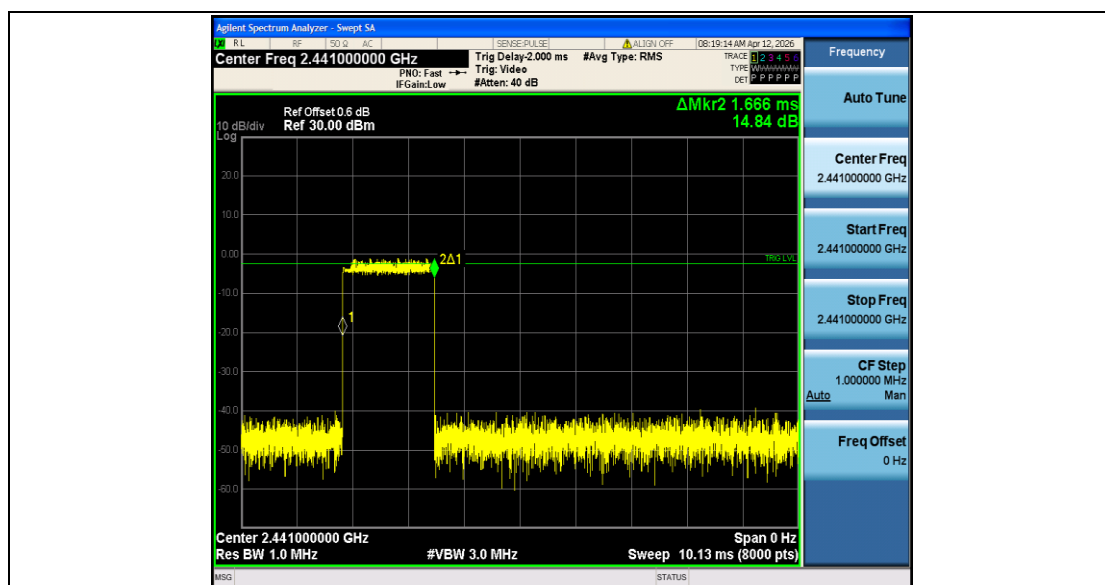




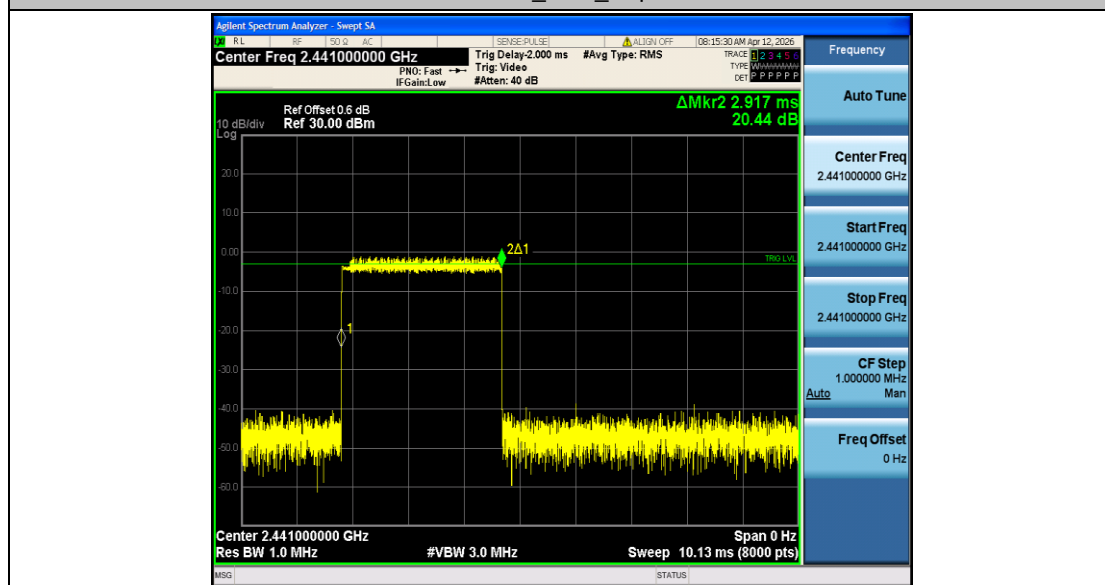
3DH1_Ant1_Hop

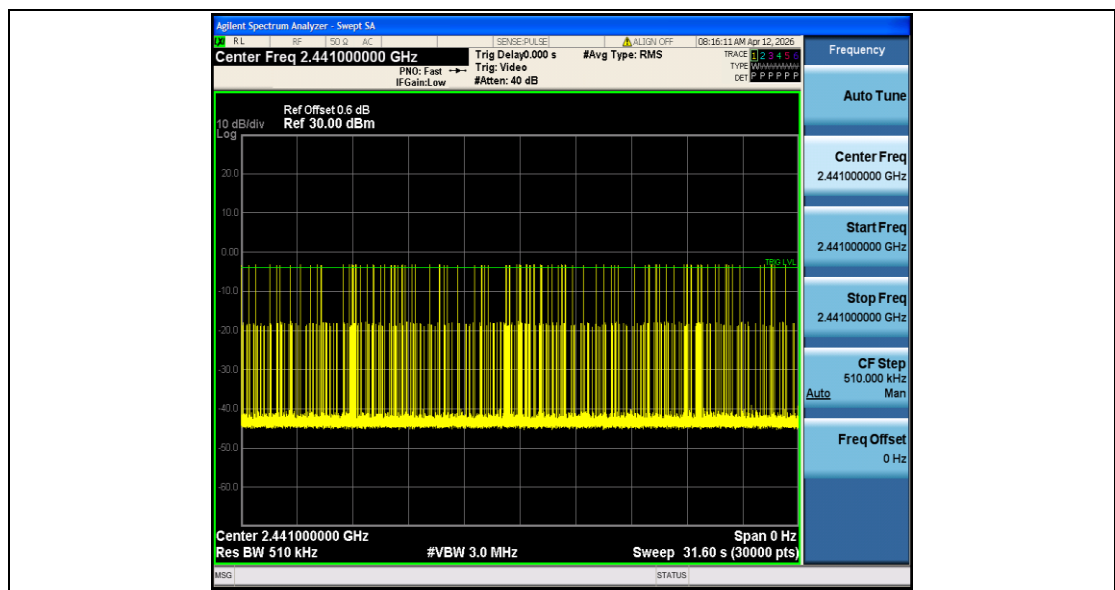


3DH3_Ant1_Hop



3DH5_Ant1_Hop



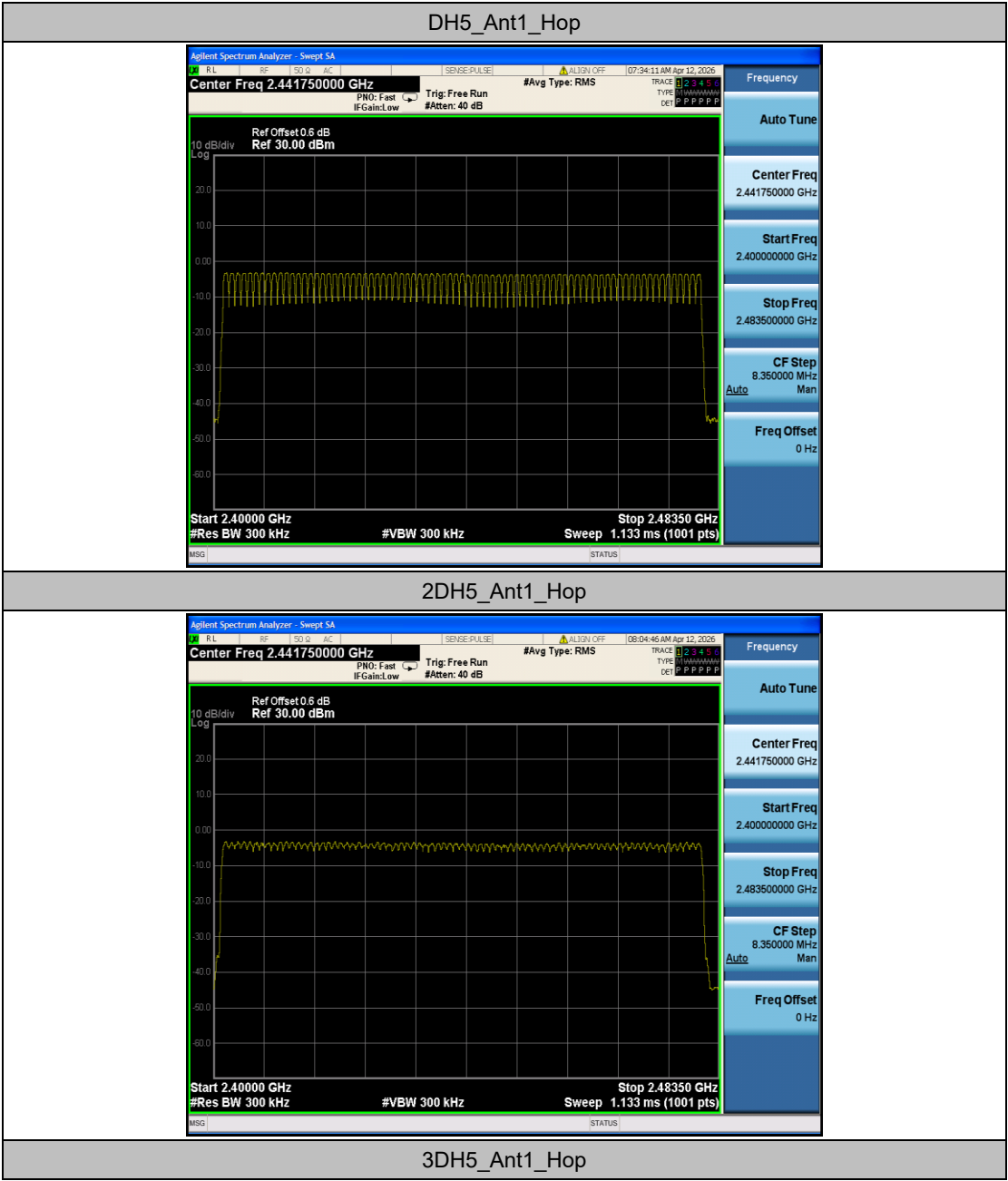


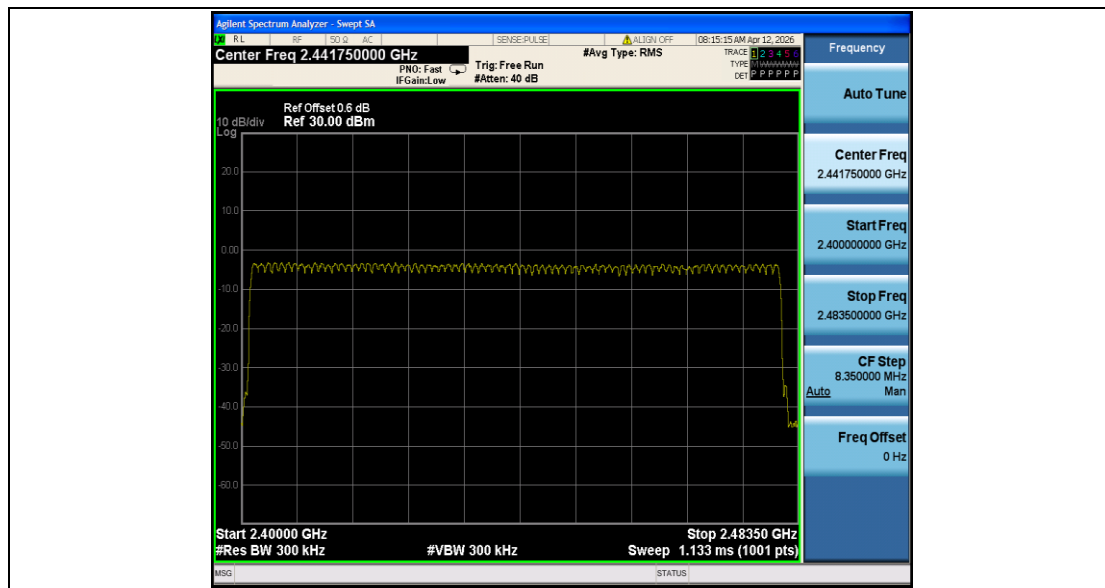
Appendix F: Number of hopping channels

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



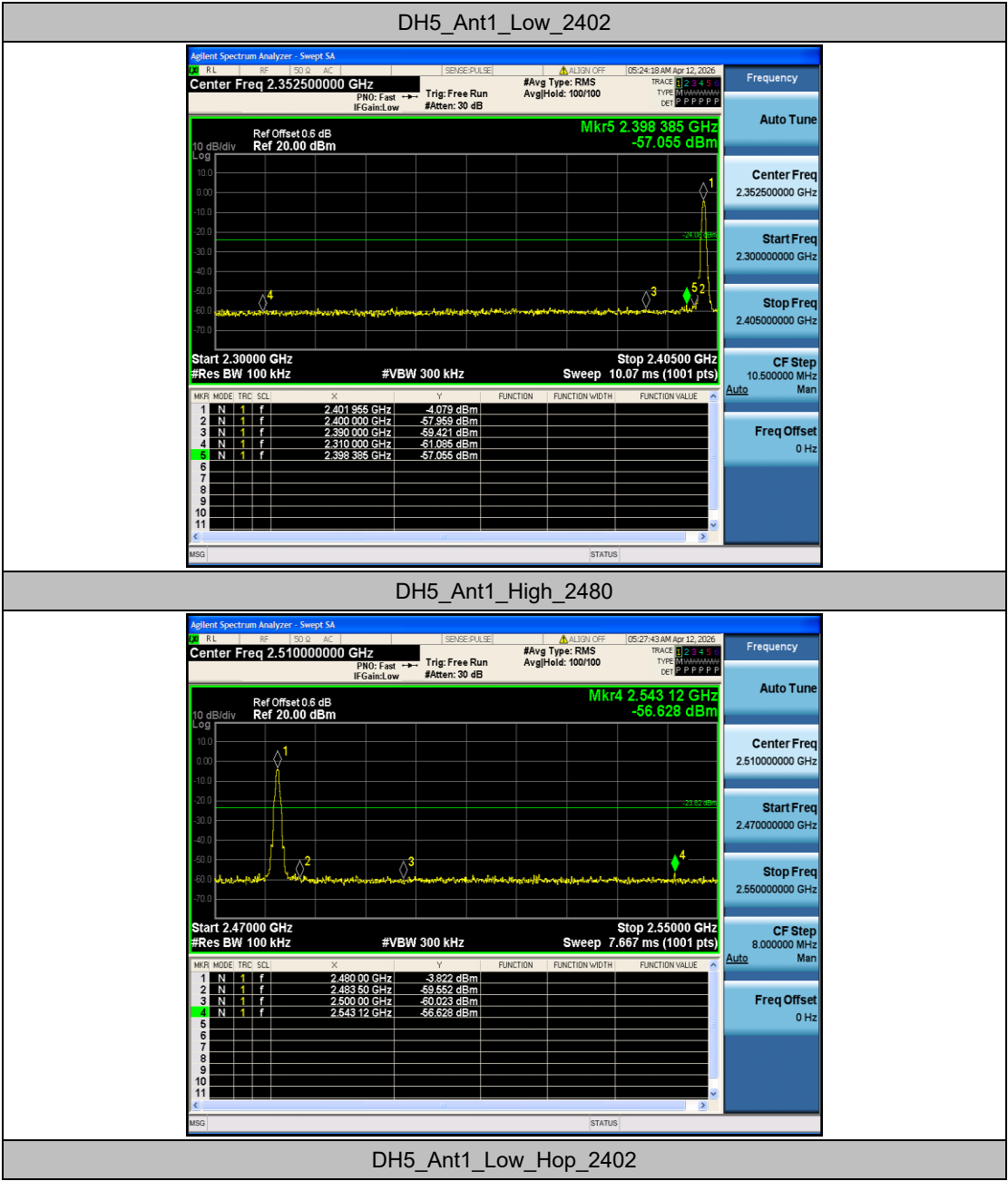


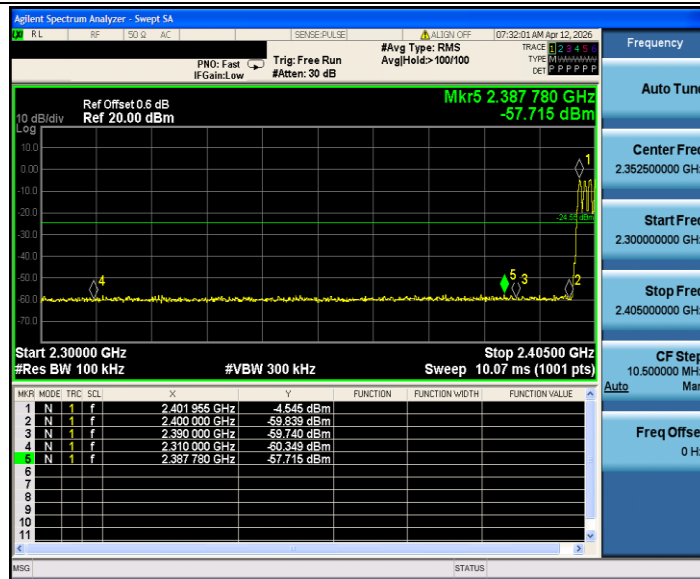
Appendix G: Band edge measurements

Test Result

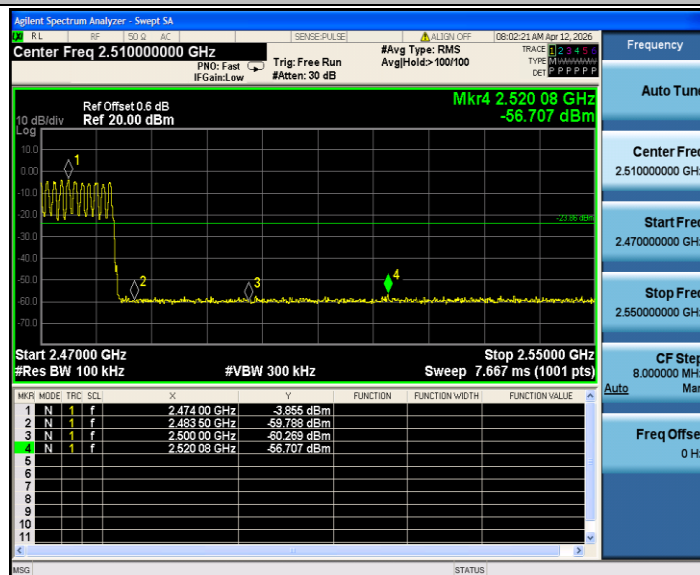
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.08	-57.06	≤-24.08	PASS
		High	2480	-3.82	-56.63	≤-23.82	PASS
		Low	Hop_2402	-4.55	-57.72	≤-24.55	PASS
		High	Hop_2480	-3.86	-56.71	≤-23.86	PASS
2DH5	Ant1	Low	2402	-6.04	-56.85	≤-26.04	PASS
		High	2480	-3.74	-56.4	≤-23.74	PASS
		Low	Hop_2402	-5.05	-57.49	≤-25.05	PASS
		High	Hop_2480	-6.31	-57.11	≤-26.31	PASS
3DH5	Ant1	Low	2402	-3.71	-54.28	≤-23.71	PASS
		High	2480	-4.90	-56.38	≤-24.9	PASS
		Low	Hop_2402	-5.32	-57.47	≤-25.32	PASS
		High	Hop_2480	-3.80	-56.87	≤-23.8	PASS

Test Graphs

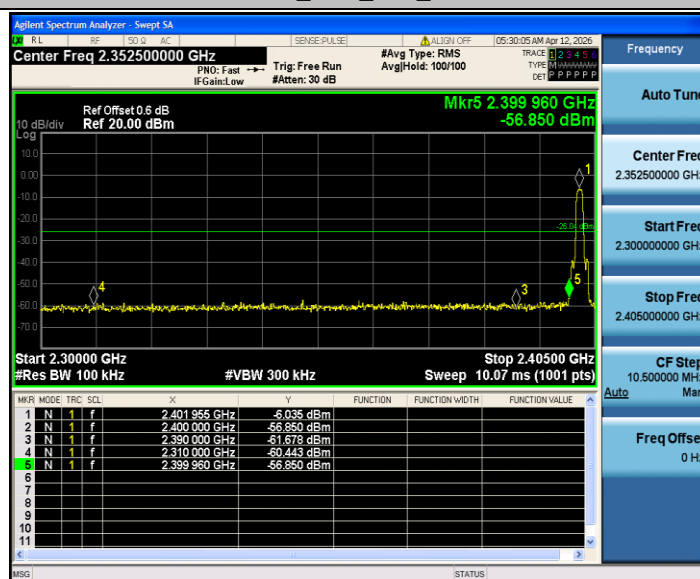




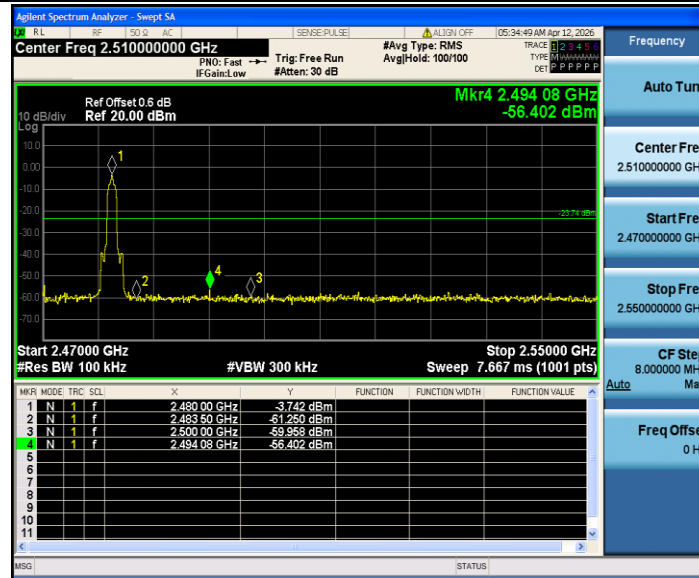
DH5_Ant1_High_Hop_2480



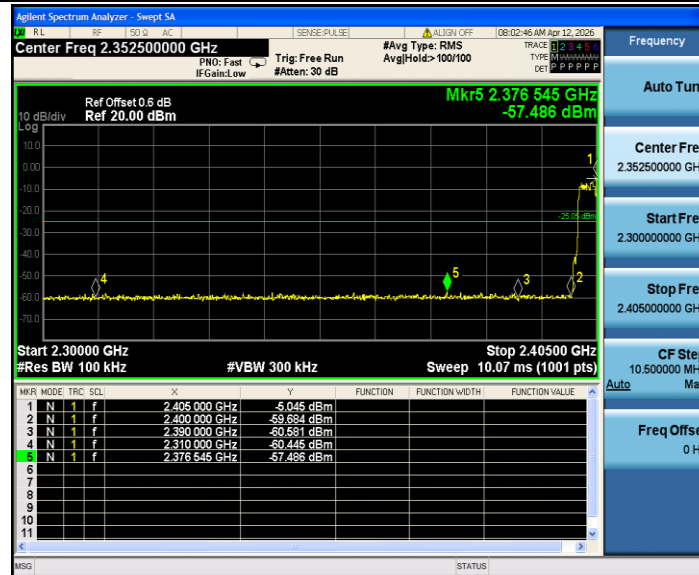
2DH5_Ant1_Low_2402



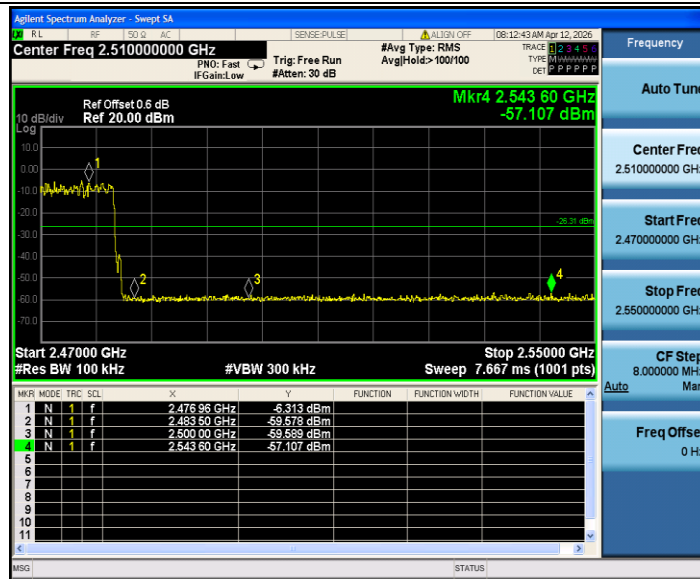
2DH5_Ant1_High_2480



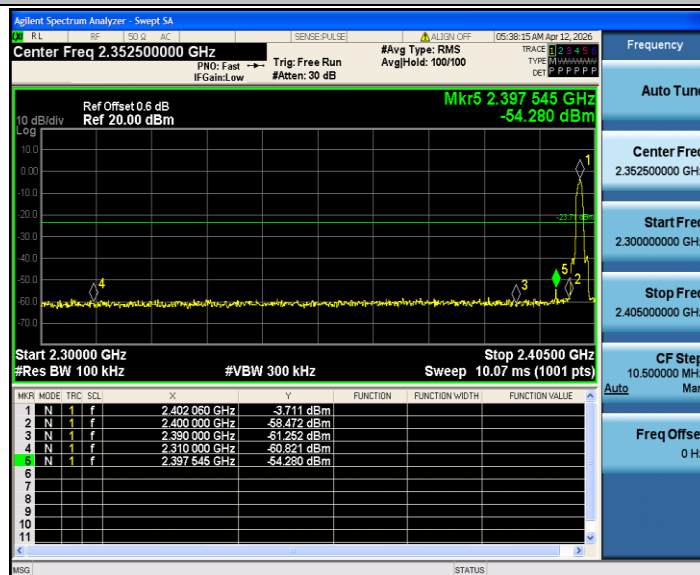
2DH5_Ant1_Low_Hop_2402



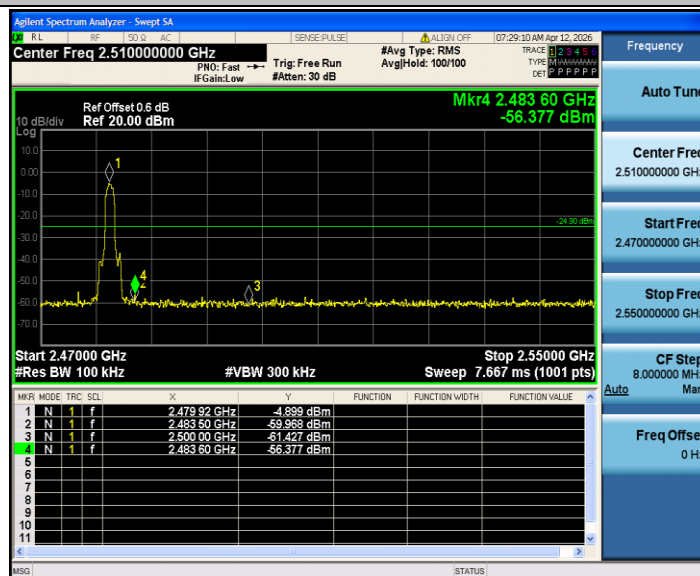
2DH5_Ant1_High_Hop_2480



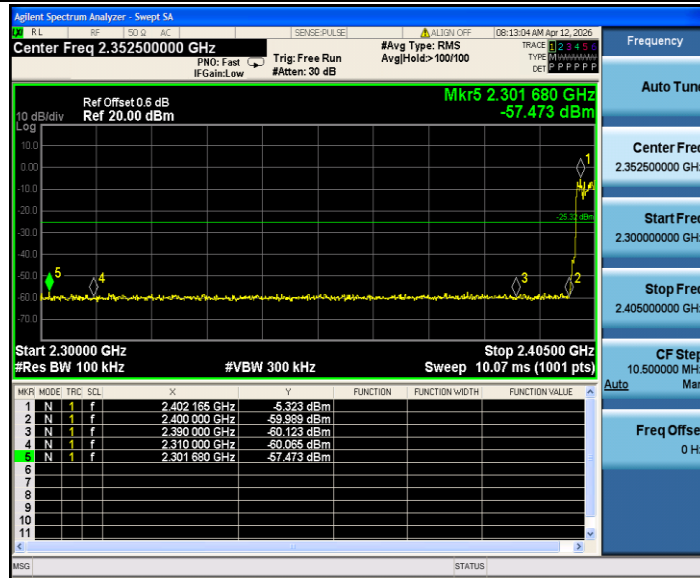
3DH5_Ant1_Low_2402



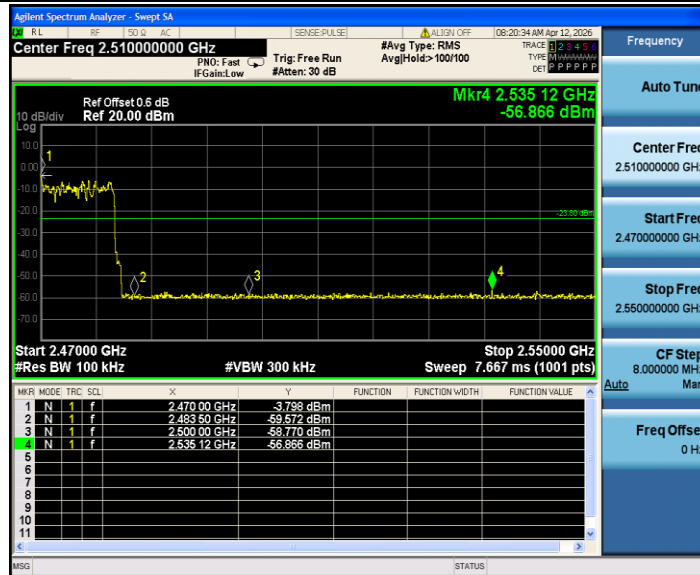
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

Test Result

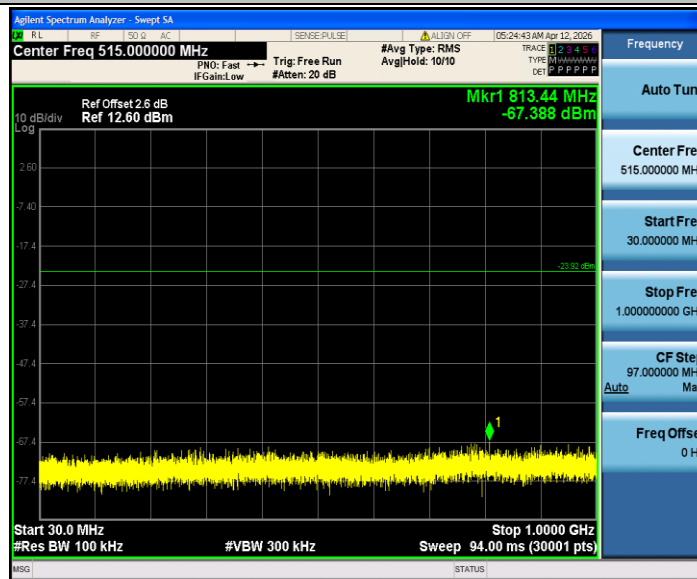
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-3.92	-3.92	---	PASS
			30~1000	-3.92	-67.39	≤-23.92	PASS
			1000~26500	-3.92	-47.49	≤-23.92	PASS
		2441	Reference	-4.38	-4.38	---	PASS
			30~1000	-4.38	-67.53	≤-24.38	PASS
			1000~26500	-4.38	-47.64	≤-24.38	PASS
		2480	Reference	-5.13	-5.13	---	PASS
			30~1000	-5.13	-67.71	≤-25.13	PASS
			1000~26500	-5.13	-48.78	≤-25.13	PASS
2DH5	Ant1	2402	Reference	-5.91	-5.91	---	PASS
			30~1000	-5.91	-67.54	≤-25.91	PASS
			1000~26500	-5.91	-46.24	≤-25.91	PASS
		2441	Reference	-4.99	-4.99	---	PASS
			30~1000	-4.99	-67.39	≤-24.99	PASS
			1000~26500	-4.99	-49.43	≤-24.99	PASS
		2480	Reference	-4.86	-4.86	---	PASS
			30~1000	-4.86	-67.29	≤-24.86	PASS
			1000~26500	-4.86	-49.72	≤-24.86	PASS
3DH5	Ant1	2402	Reference	-4.68	-4.68	---	PASS
			30~1000	-4.68	-67.78	≤-24.68	PASS
			1000~26500	-4.68	-48.95	≤-24.68	PASS
		2441	Reference	-4.35	-4.35	---	PASS
			30~1000	-4.35	-67.27	≤-24.35	PASS
			1000~26500	-4.35	-48.19	≤-24.35	PASS
		2480	Reference	-5.60	-5.60	---	PASS
			30~1000	-5.60	-67.33	≤-25.6	PASS
			1000~26500	-5.60	-49.38	≤-25.6	PASS

Test Graphs

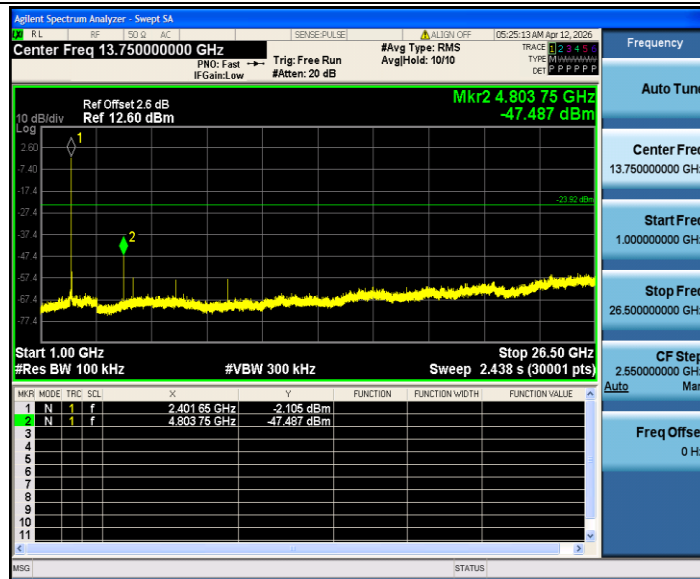
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



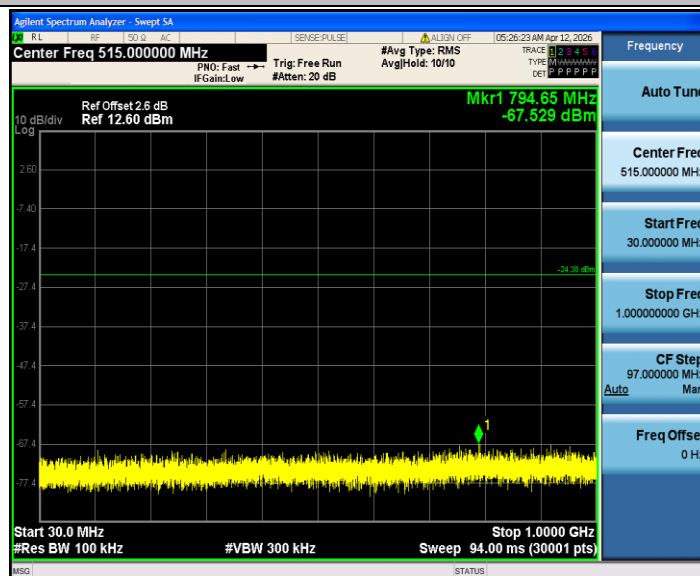
DH5_Ant1_2402_1000~26500



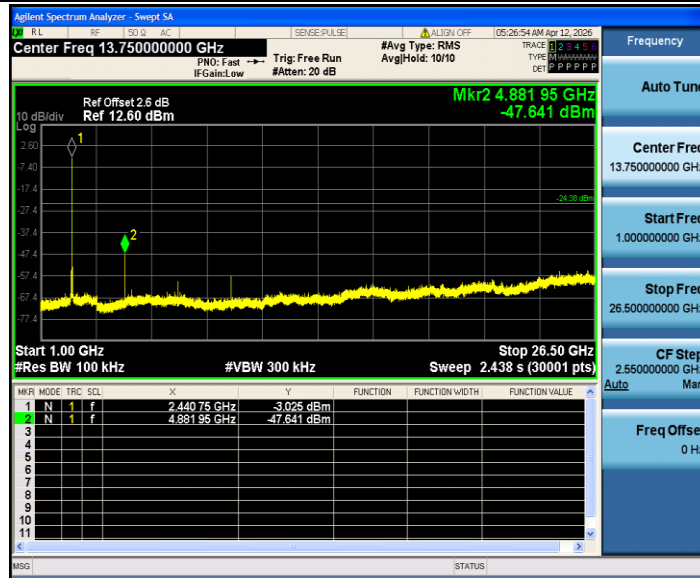
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



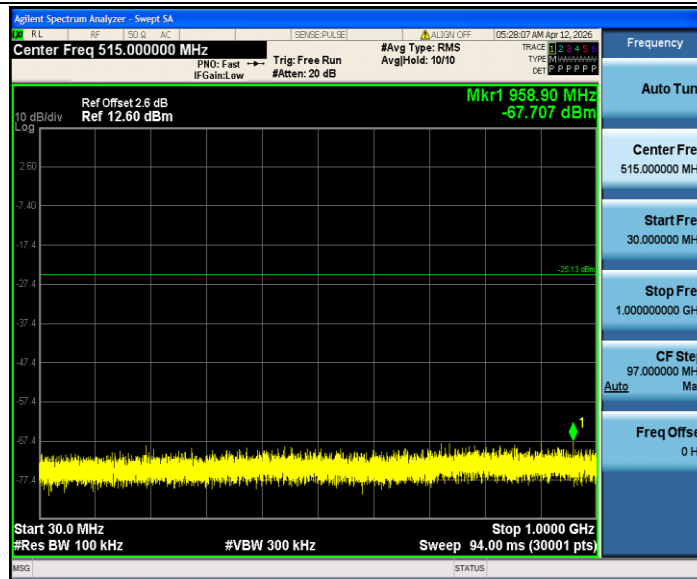
DH5_Ant1_2441_1000~26500



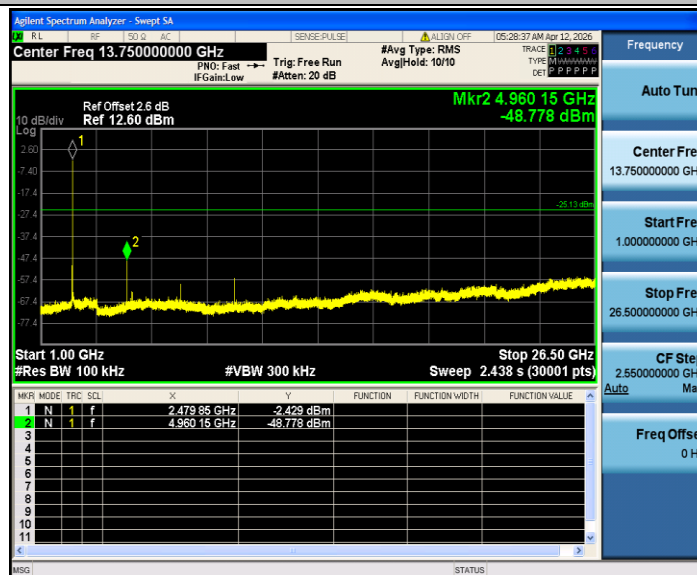
DH5_Ant1_2480_0~Reference



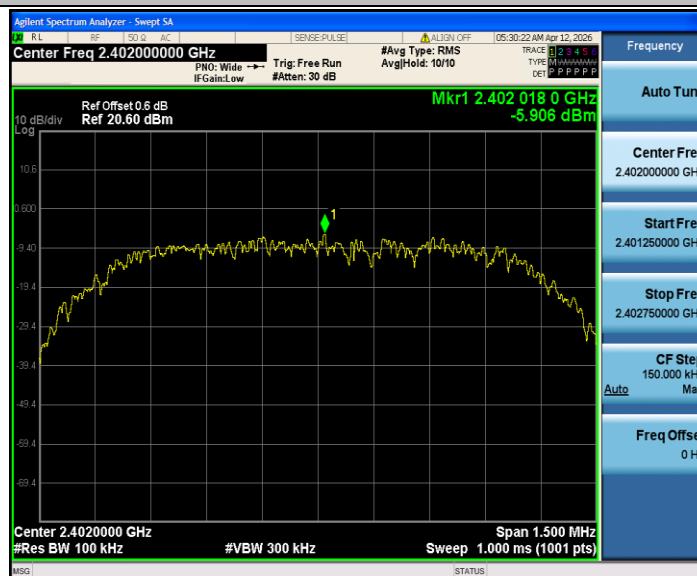
DH5_Ant1_2480_30~1000



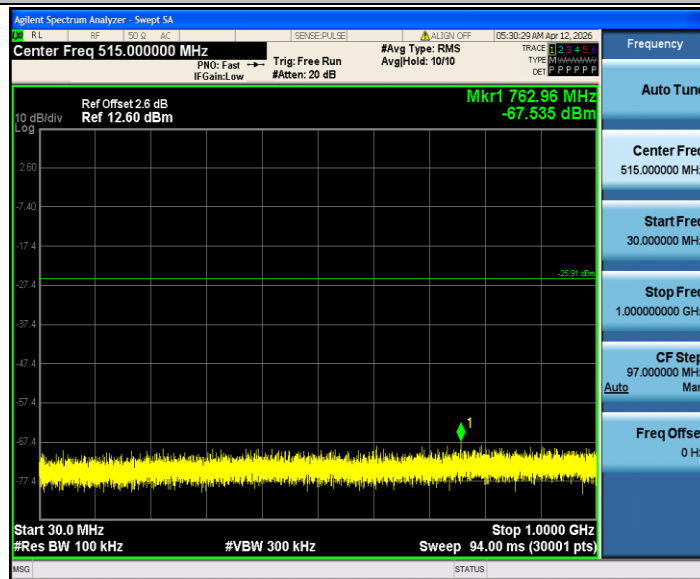
DH5_Ant1_2480_1000~26500



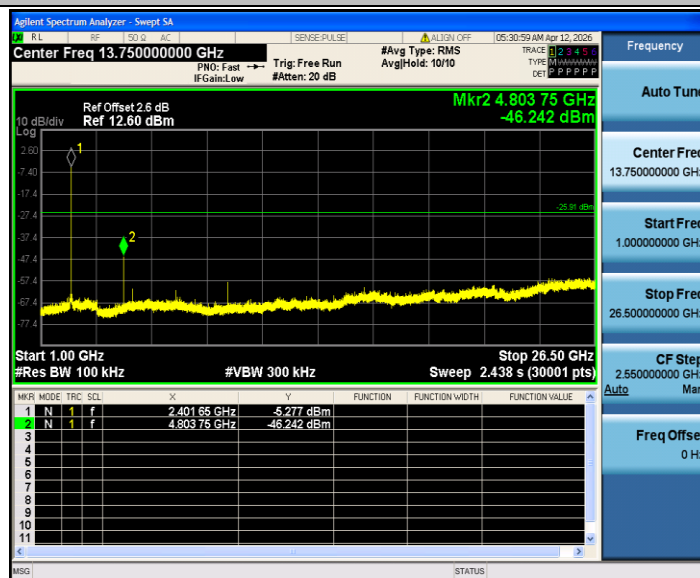
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference