

FCC Appendix RF Test Data for BT

FCC ID : 2BYDB-KDD-837

Company : HONGKONG LONGZE INTERNATIONAL LIMITED

EUT : Phone Stand with Bluetooth Speaker

Model Number : KDD-837

Report No. : CTA26092900501

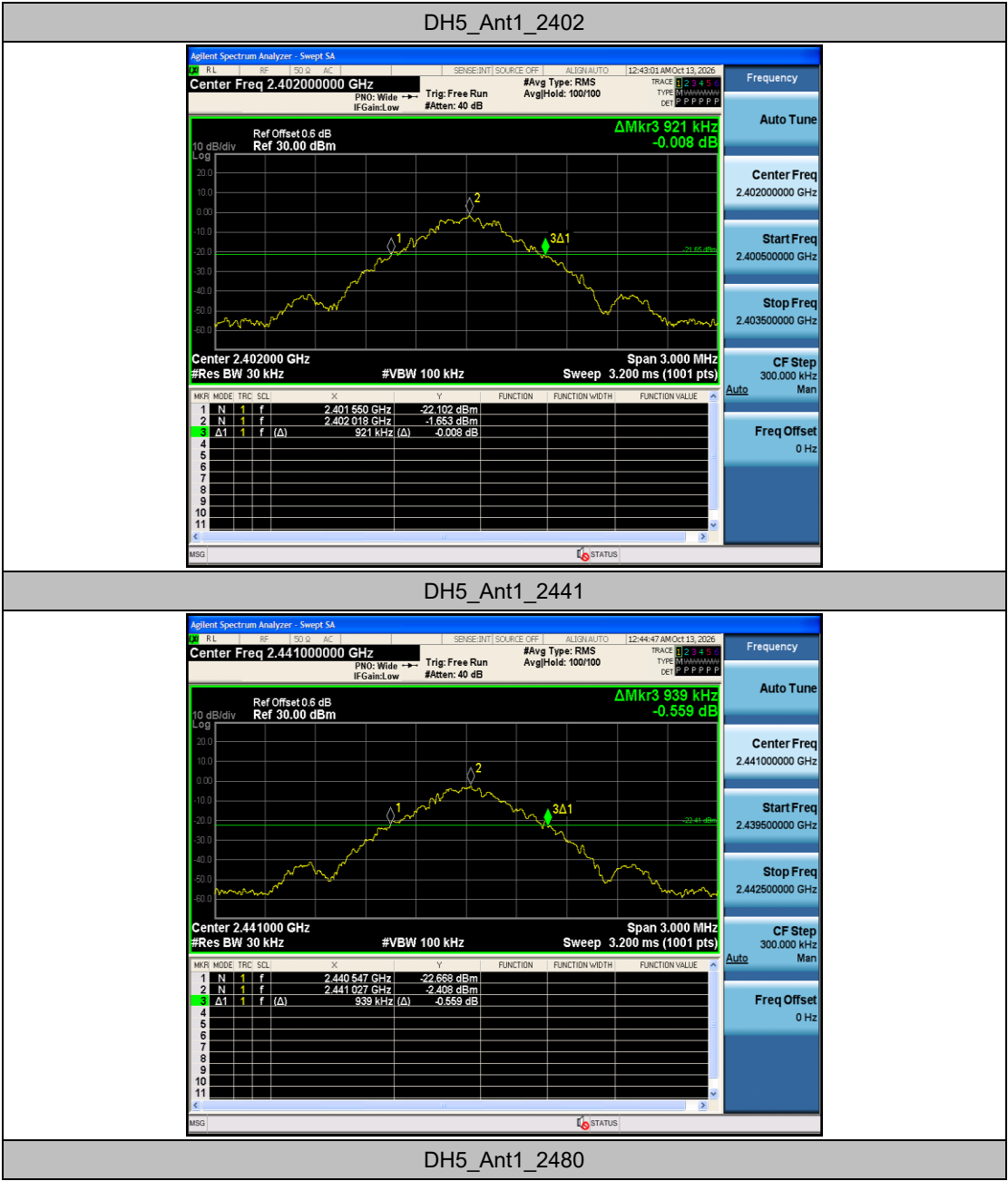
Reviewed By : Eric Wang

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	2401.550	2402.471	---	---
		2441	0.939	2440.547	2441.486	---	---
		2480	0.954	2479.547	2480.501	---	---
2DH5	Ant1	2402	1.323	2401.346	2402.669	---	---
		2441	1.326	2440.346	2441.672	---	---
		2480	1.332	2479.343	2480.675	---	---
3DH5	Ant1	2402	1.317	2401.352	2402.669	---	---
		2441	1.311	2440.358	2441.669	---	---
		2480	1.323	2479.352	2480.675	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

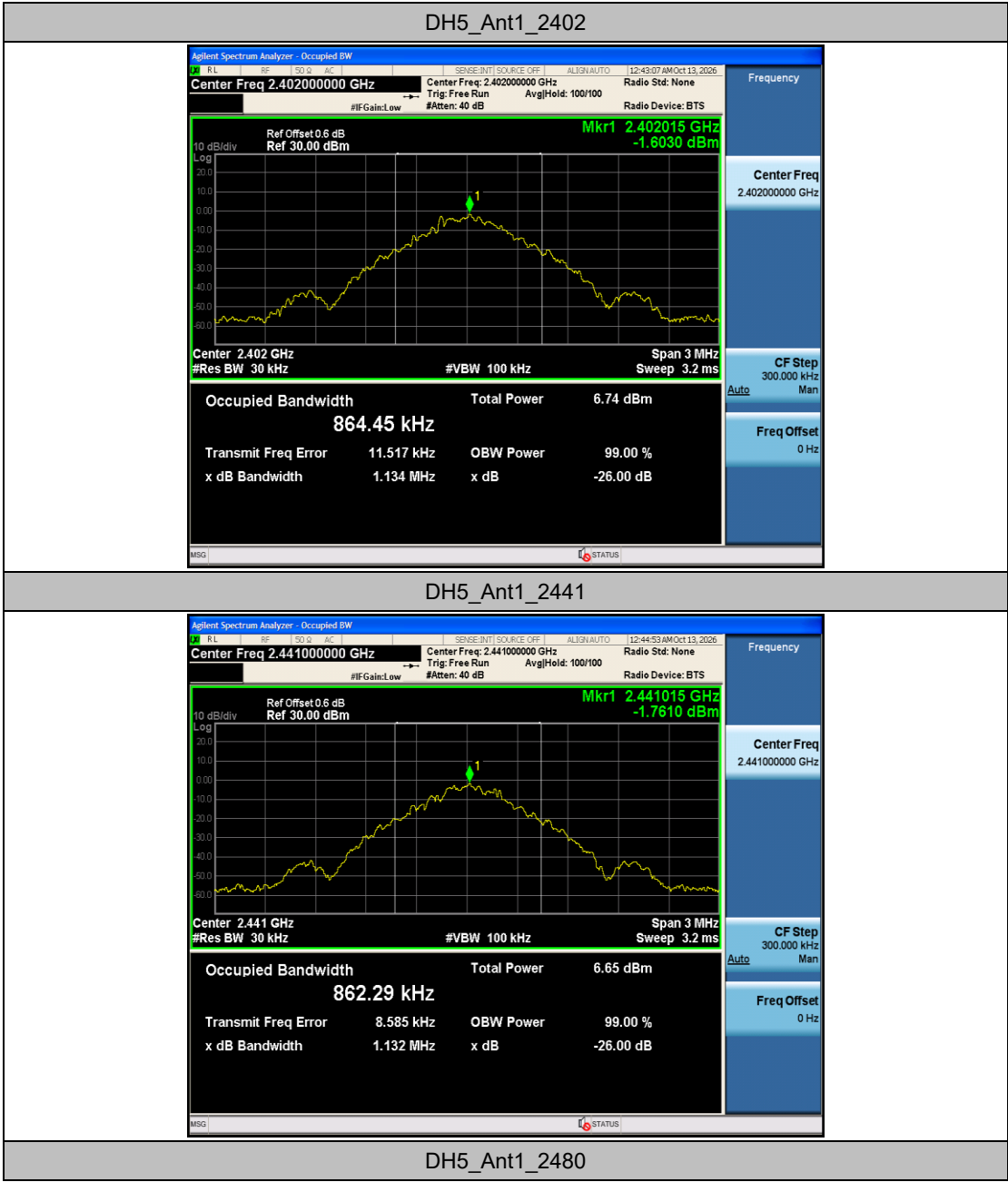


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86445	2401.5793	2402.4437	---	---
		2441	0.86229	2440.5774	2441.4397	---	---
		2480	0.86235	2479.5781	2480.4405	---	---
2DH5	Ant1	2402	1.1922	2401.4139	2402.6061	---	---
		2441	1.1957	2440.4114	2441.6071	---	---
		2480	1.1940	2479.4141	2480.6081	---	---
3DH5	Ant1	2402	1.1858	2401.4172	2402.6030	---	---
		2441	1.1915	2440.4156	2441.6071	---	---
		2480	1.1962	2479.4120	2480.6082	---	---

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	0.11	≤20.97	PASS
		2441	0.01	≤20.97	PASS
		2480	-0.17	≤20.97	PASS
2DH5	Ant1	2402	2.78	≤20.97	PASS
		2441	2.63	≤20.97	PASS
		2480	2.47	≤20.97	PASS
3DH5	Ant1	2402	3.24	≤20.97	PASS
		2441	3.11	≤20.97	PASS
		2480	2.84	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.978	≥ 0.954	PASS
2DH5	Ant1	Hop	1.144	≥ 0.888	PASS
3DH5	Ant1	Hop	0.974	≥ 0.882	PASS

Test Graphs



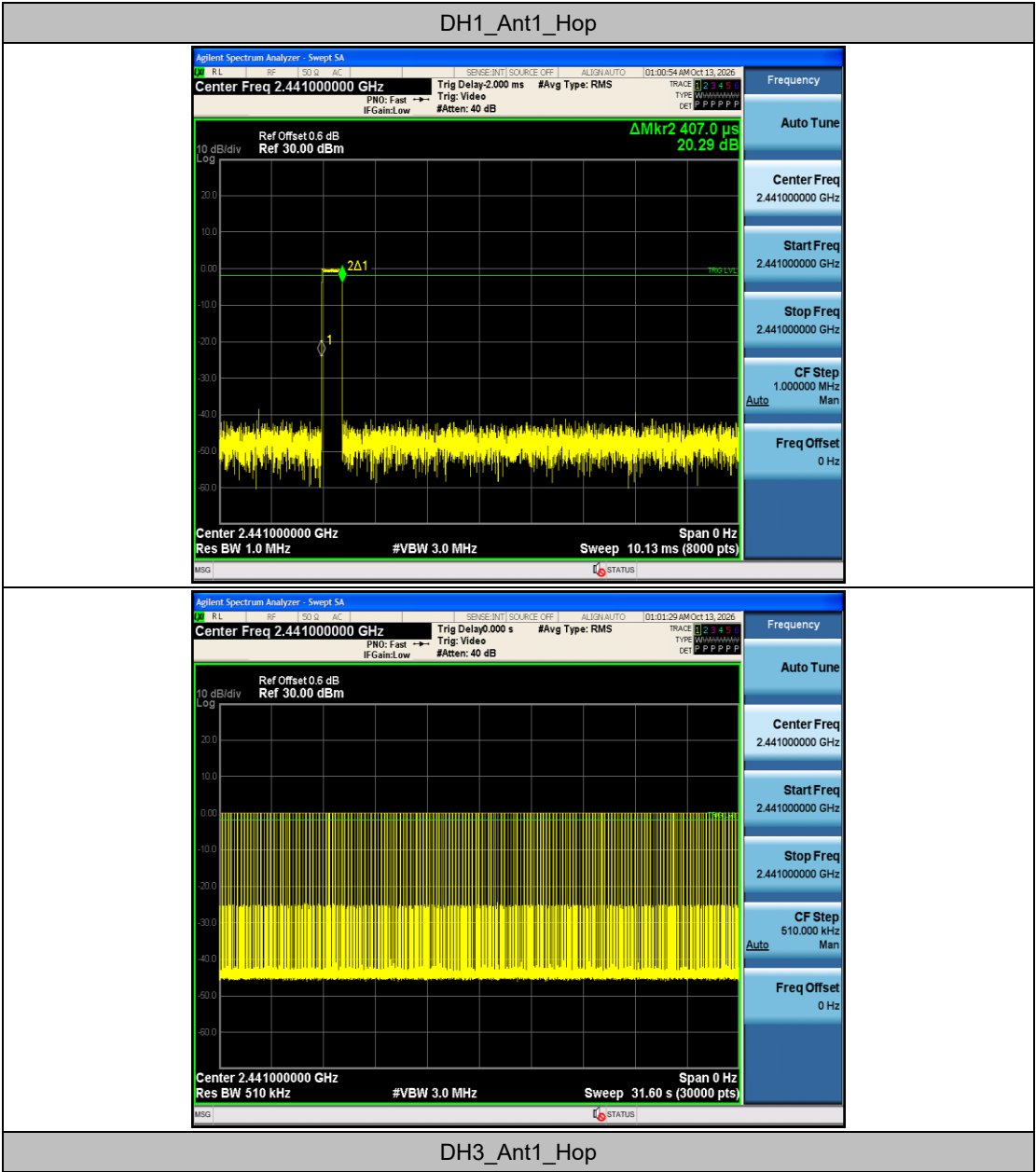


Appendix E: Time of occupancy

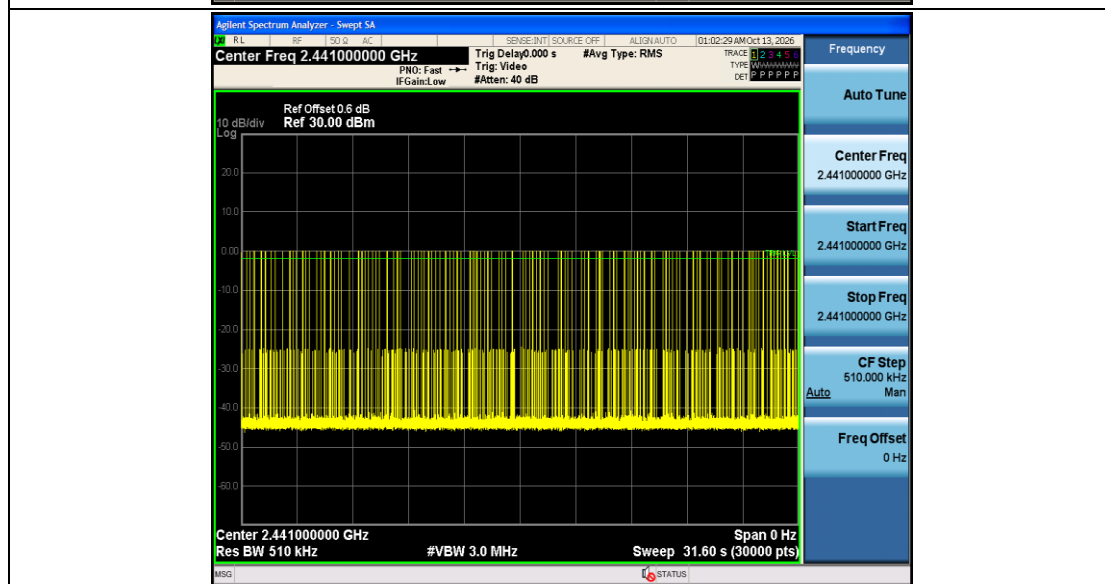
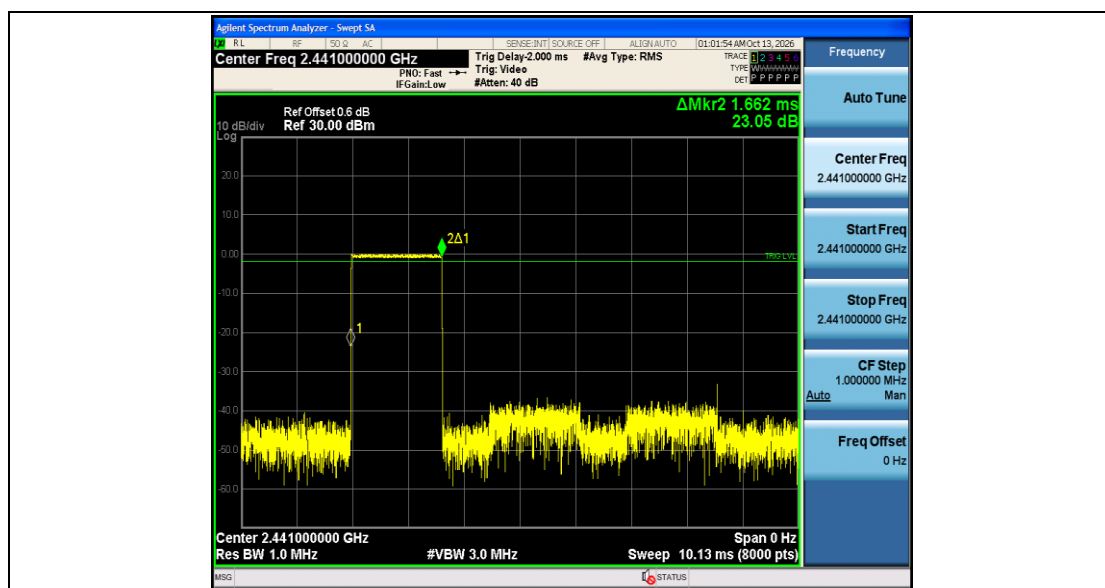
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	316	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	316	0.131	≤0.4	PASS
2DH3	Ant1	Hop	1.668	159	0.265	≤0.4	PASS
2DH5	Ant1	Hop	2.916	103	0.3	≤0.4	PASS
3DH1	Ant1	Hop	0.414	319	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.664	154	0.256	≤0.4	PASS
3DH5	Ant1	Hop	2.916	107	0.312	≤0.4	PASS

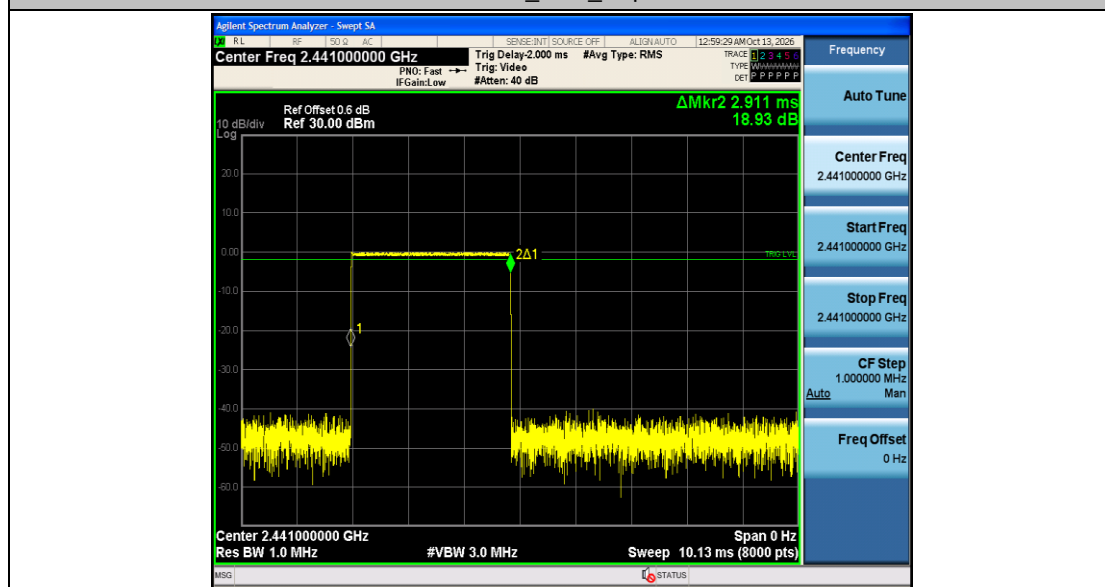
Test Graphs

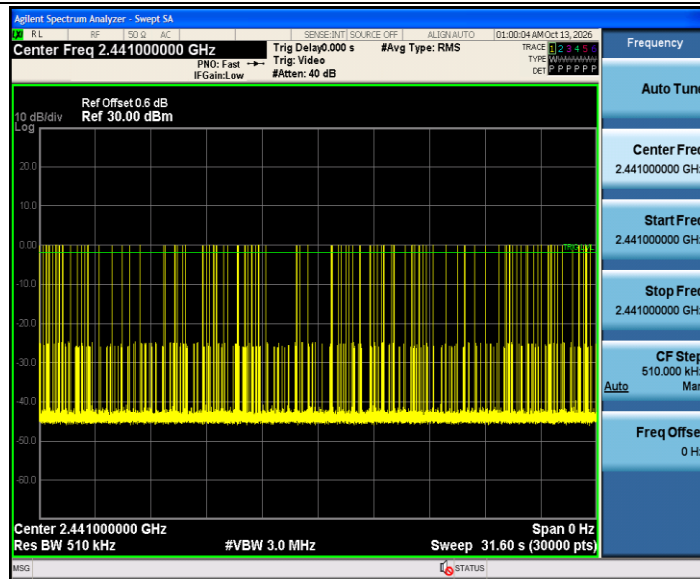


DH3_Ant1_Hop

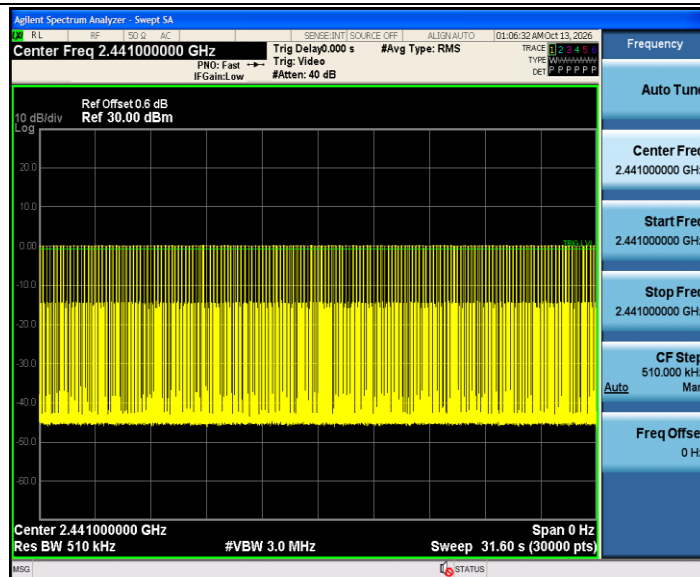
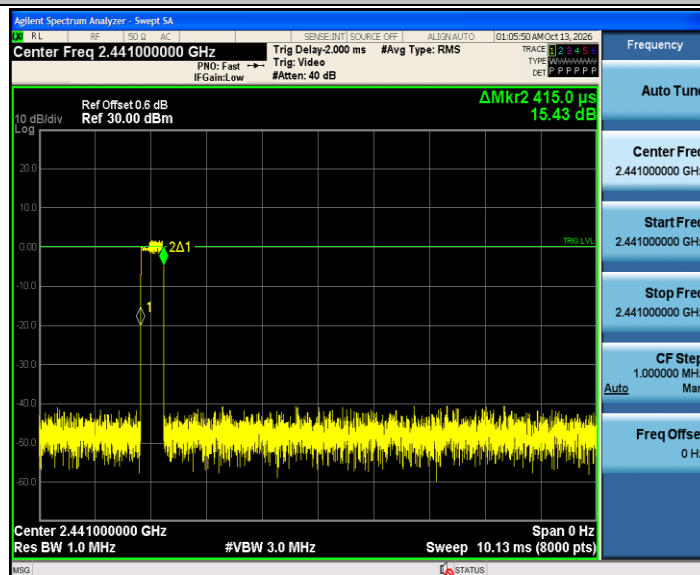


DH5_Ant1_Hop

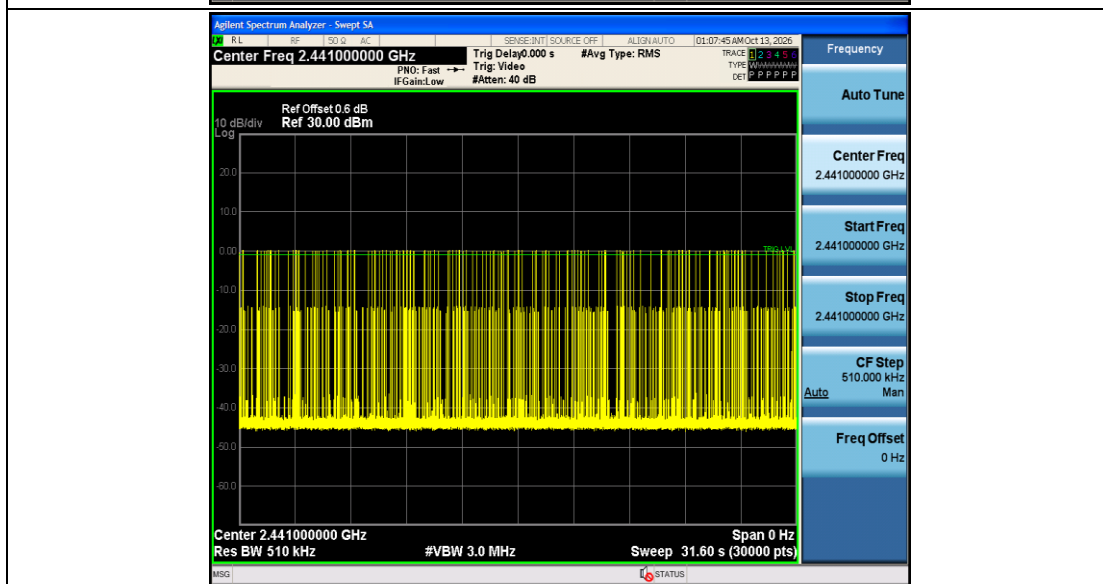
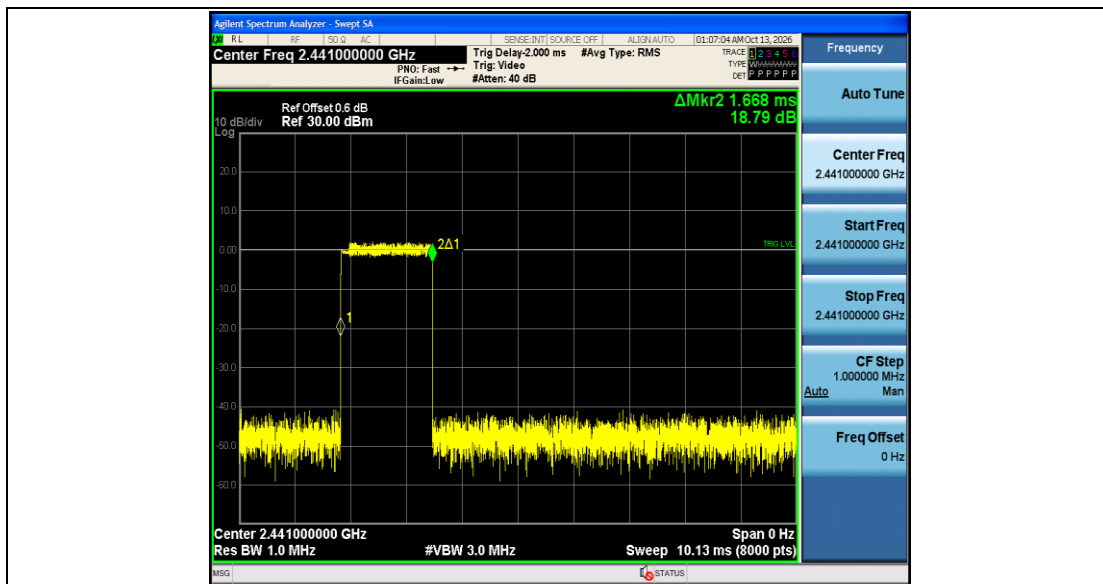




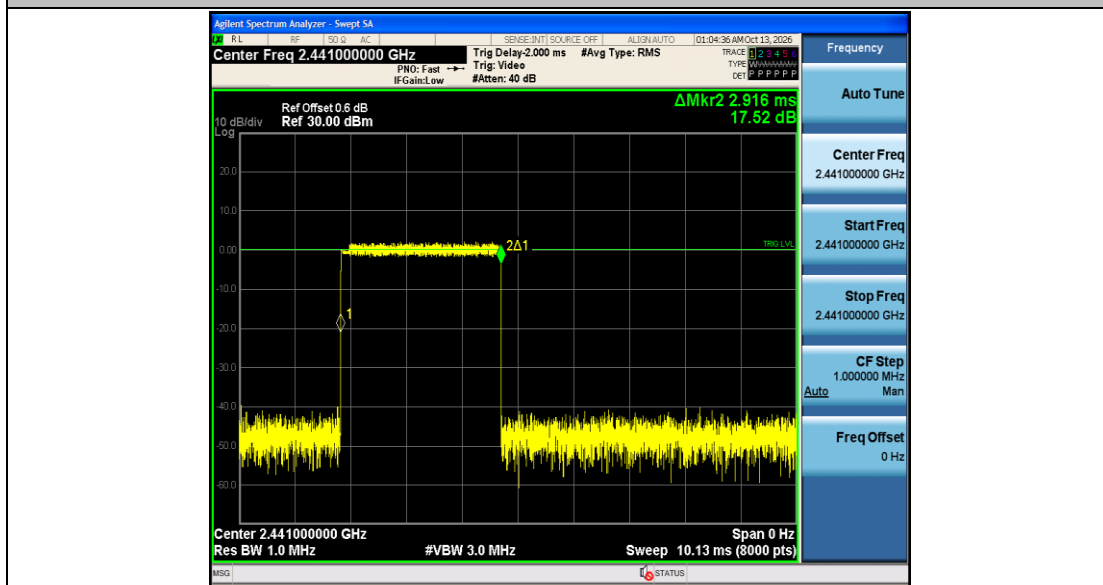
2DH1_Ant1_Hop

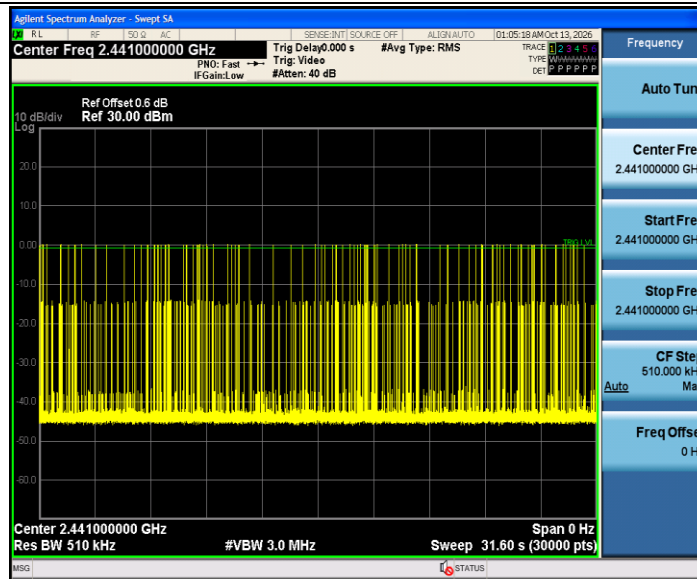


2DH3_Ant1_Hop

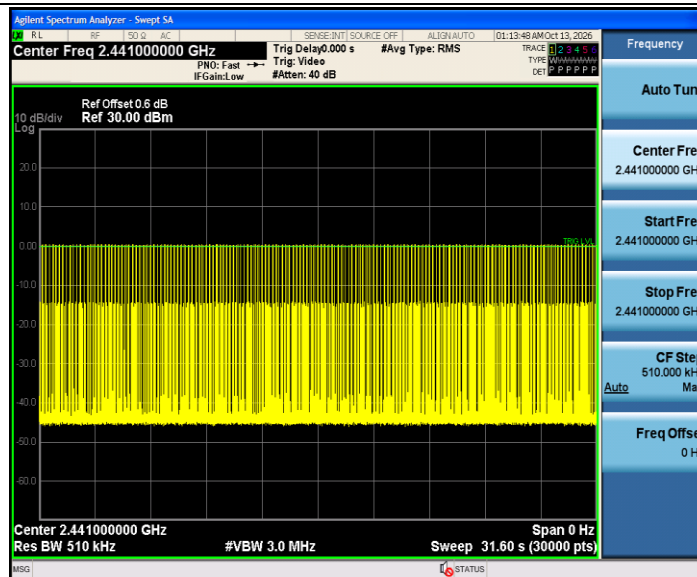
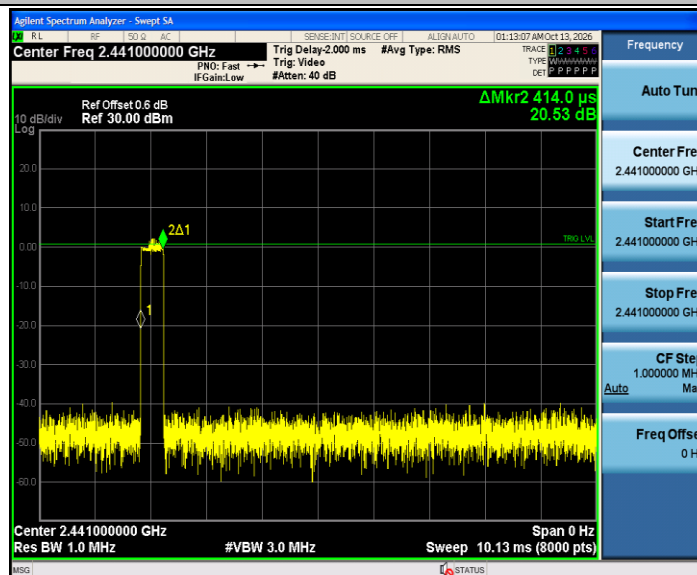


2DH5_Ant1_Hop

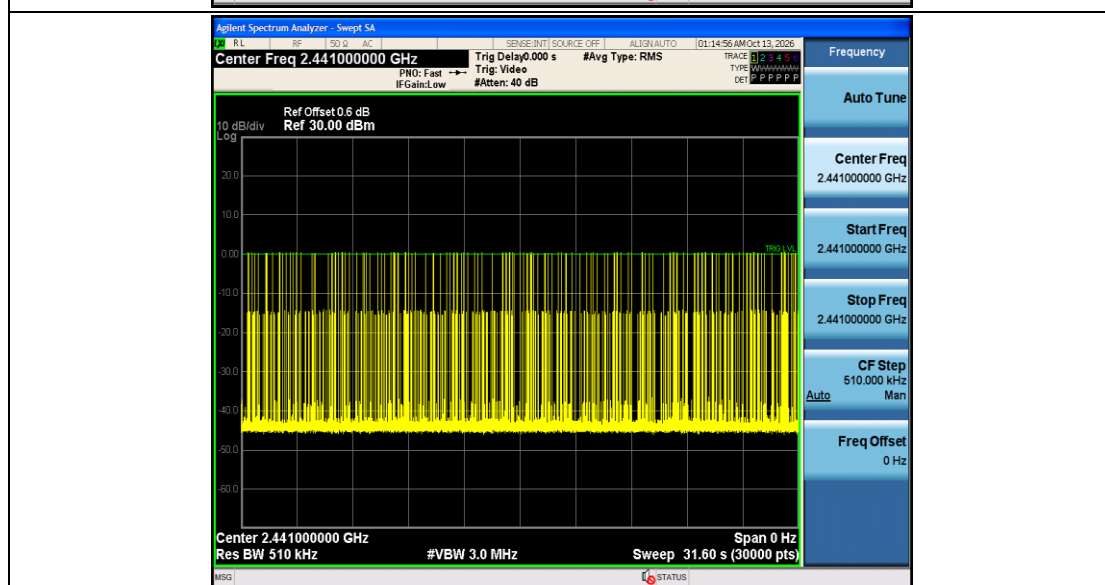
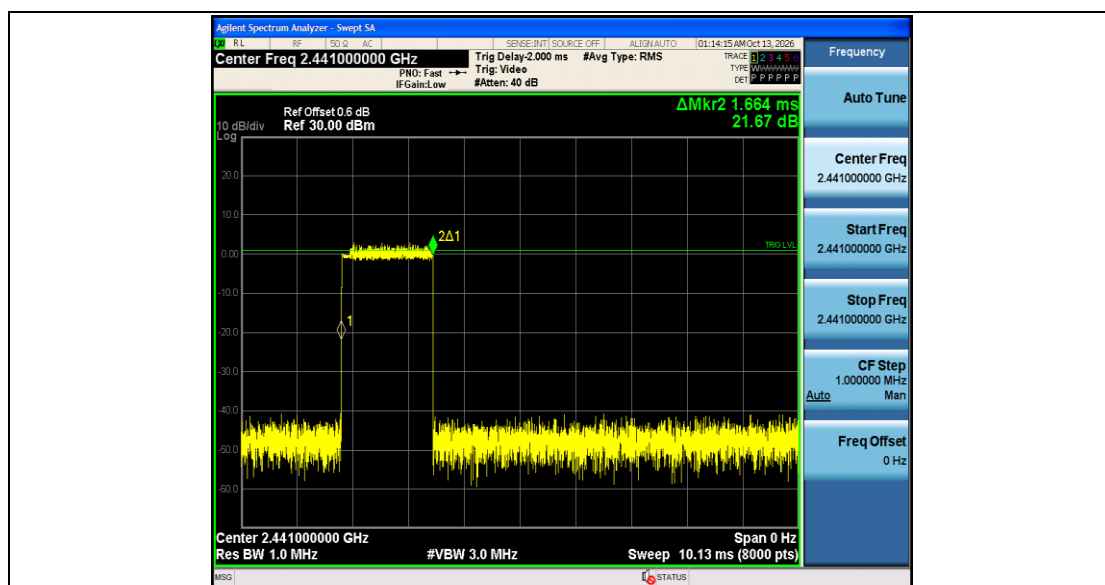




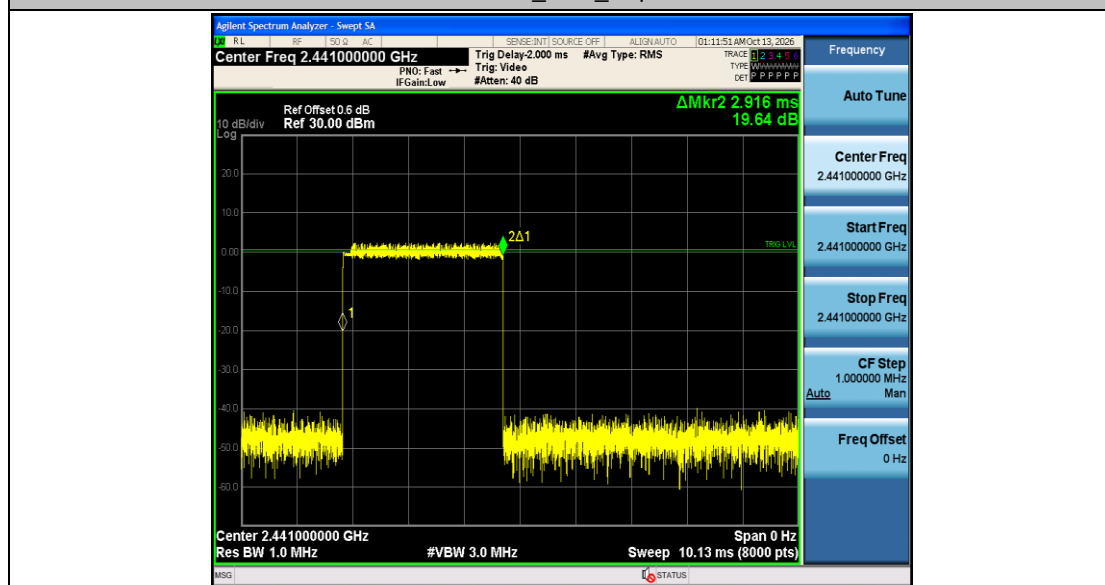
3DH1_Ant1_Hop

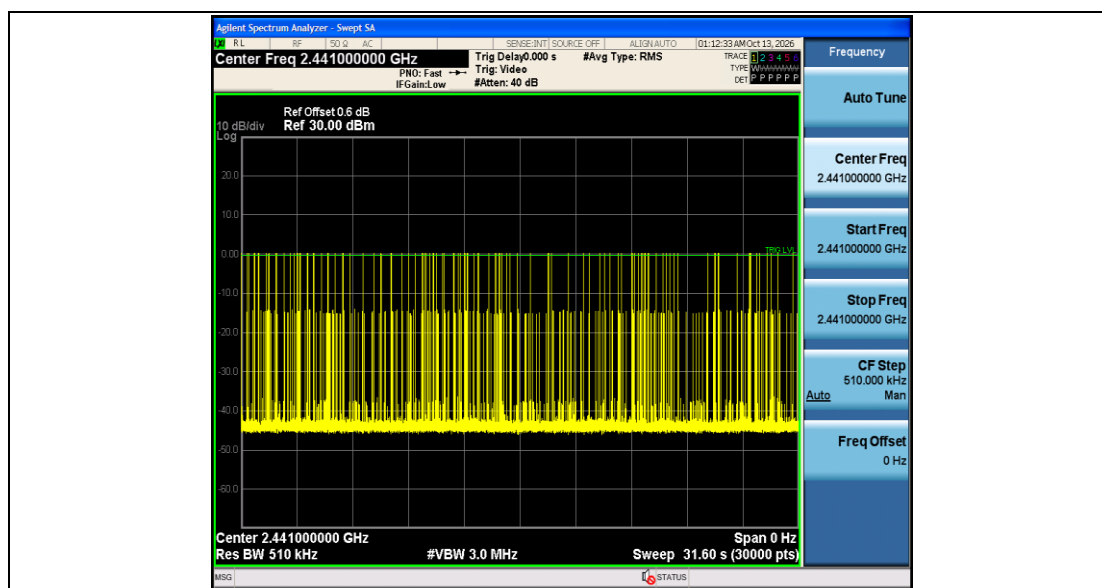


3DH3_Ant1_Hop



3DH5_Ant1_Hop



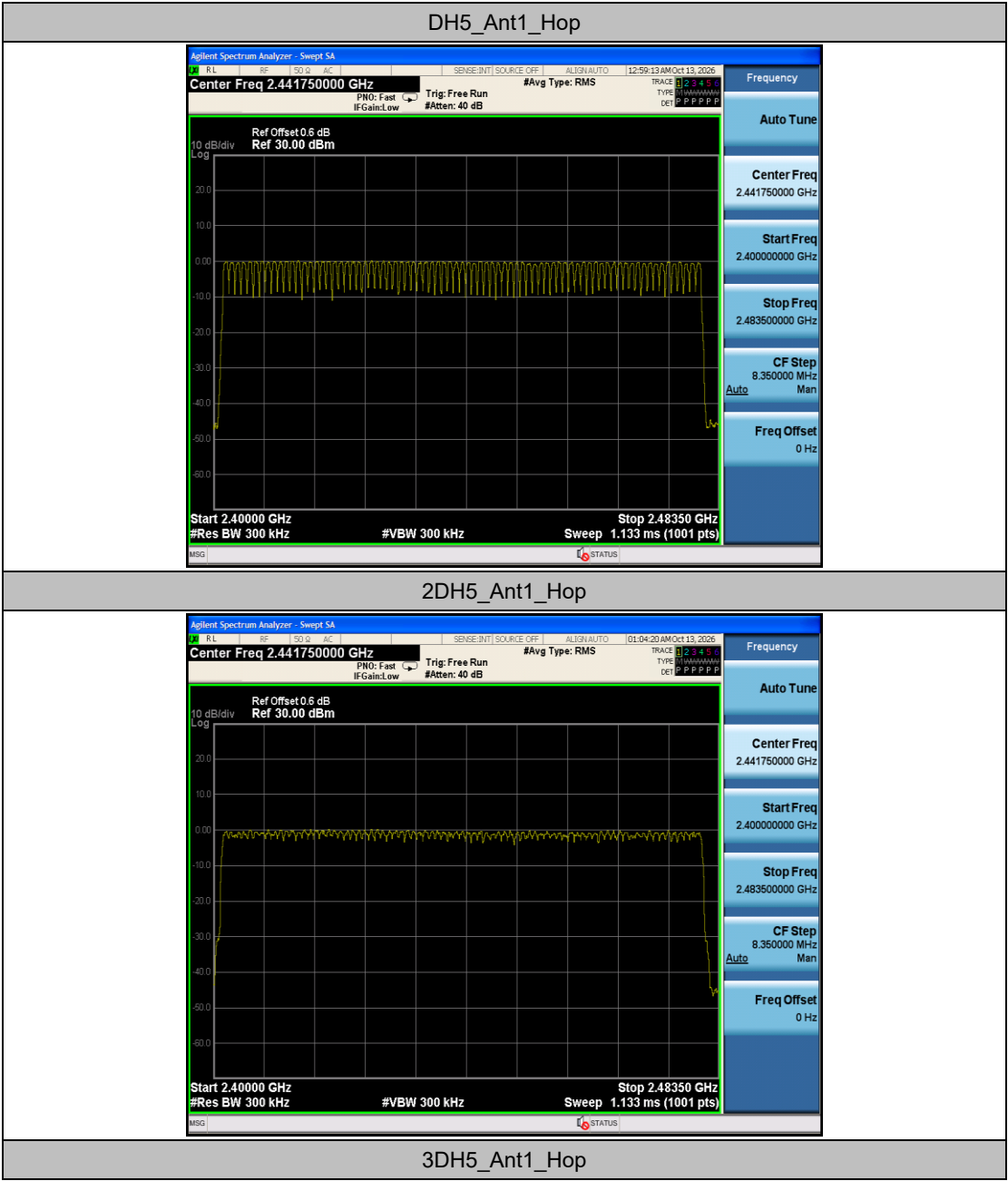


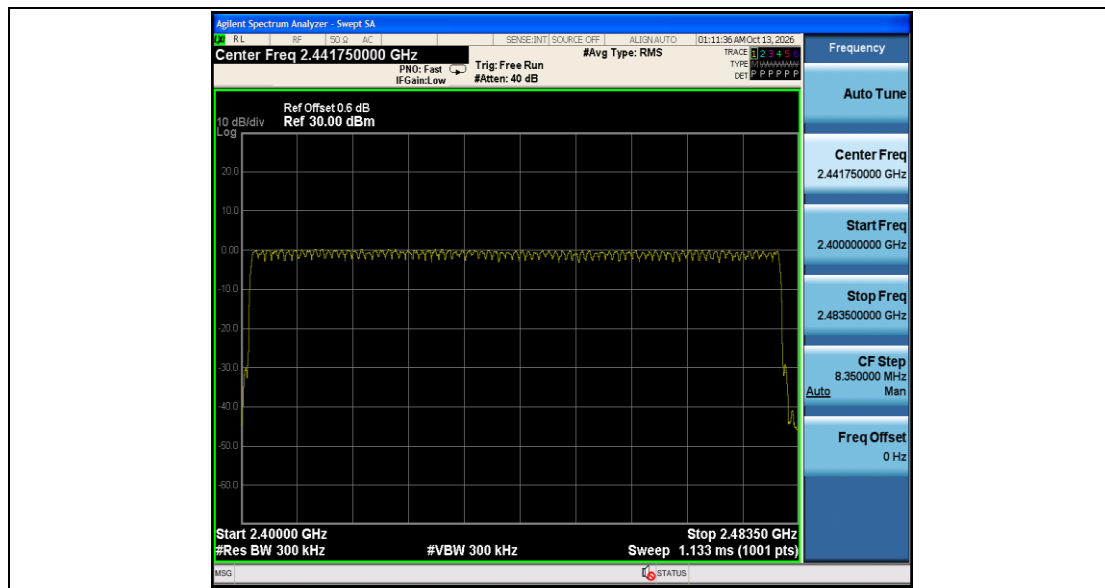
Appendix F: Number of hopping channels

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



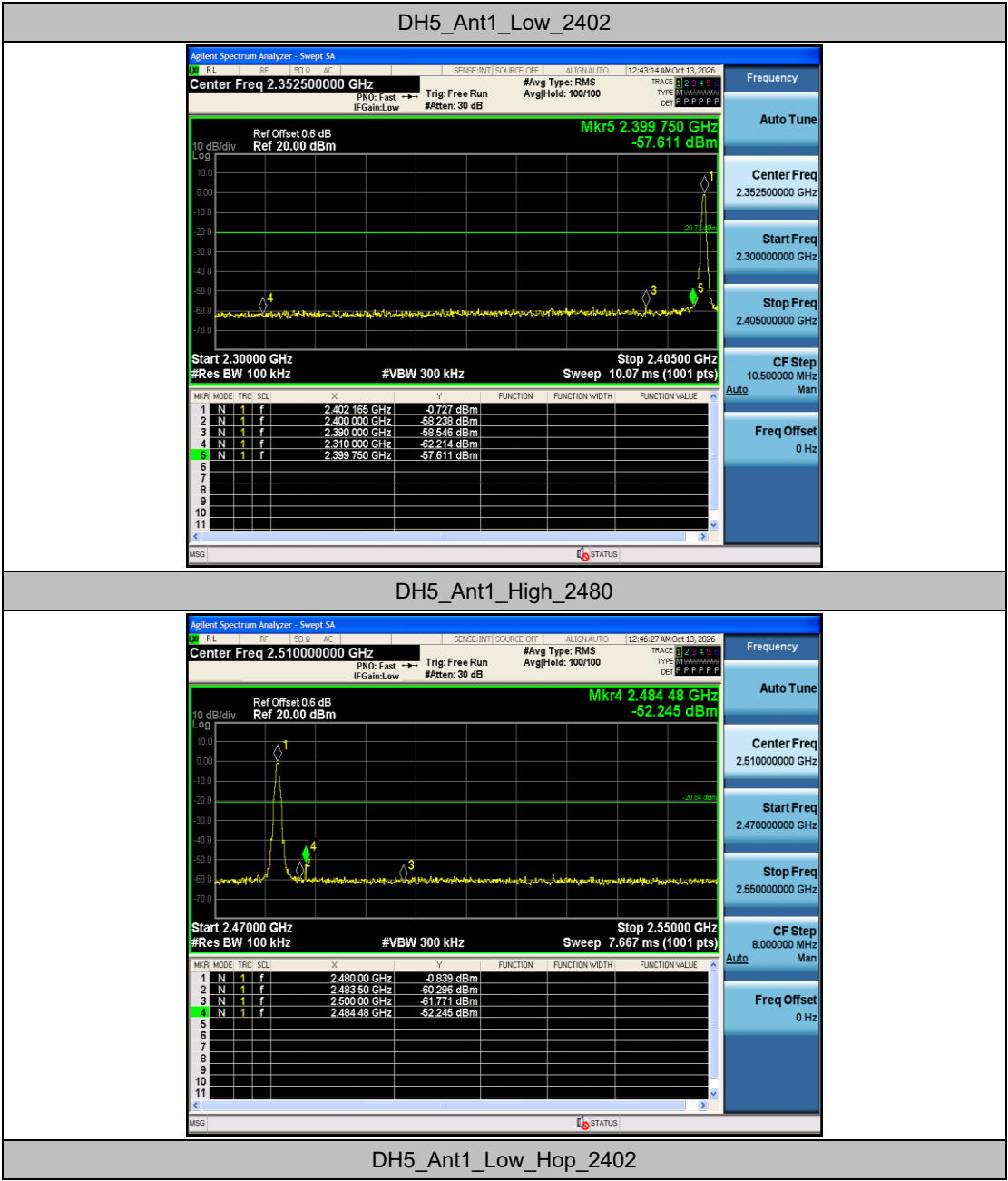


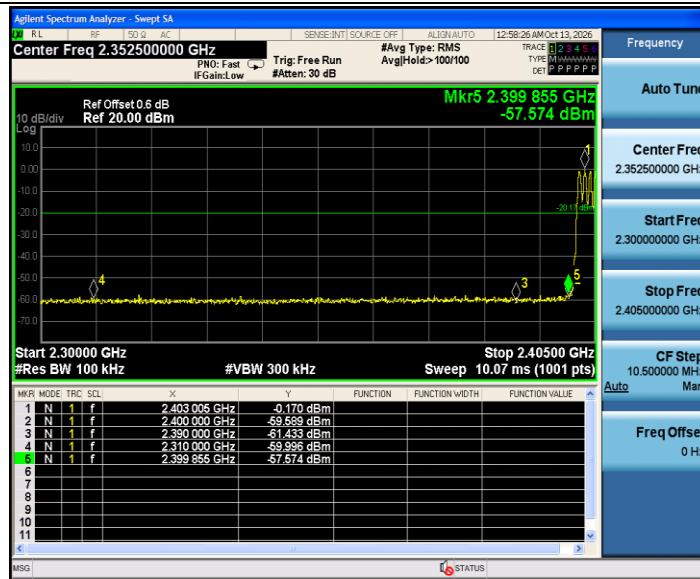
Appendix G: Band edge measurements

Test Result

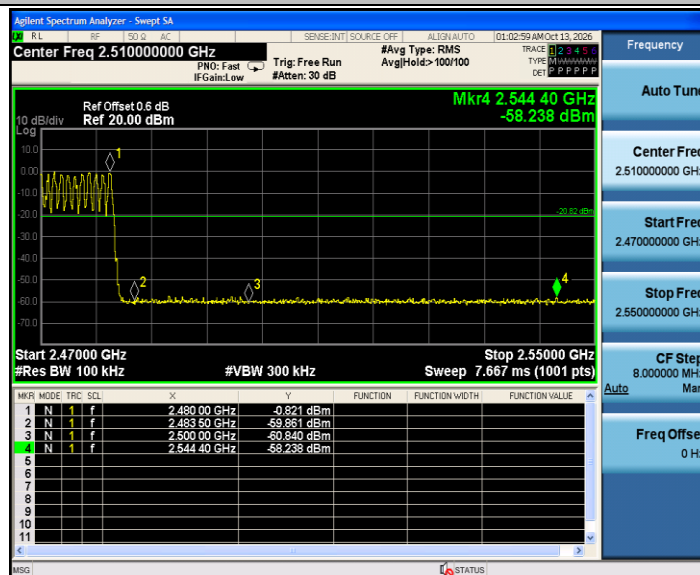
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.73	-57.61	≤-20.73	PASS
		High	2480	-0.84	-52.25	≤-20.84	PASS
		Low	Hop_2402	-0.17	-57.57	≤-20.17	PASS
		High	Hop_2480	-0.82	-58.24	≤-20.82	PASS
2DH5	Ant1	Low	2402	-1.00	-50.04	≤-21	PASS
		High	2480	-2.98	-57.19	≤-22.98	PASS
		Low	Hop_2402	-0.12	-51.39	≤-20.12	PASS
		High	Hop_2480	-0.20	-41.01	≤-20.2	PASS
3DH5	Ant1	Low	2402	-0.43	-49.26	≤-20.43	PASS
		High	2480	-0.89	-51.9	≤-20.89	PASS
		Low	Hop_2402	-0.43	-51.74	≤-20.43	PASS
		High	Hop_2480	-0.55	-56.59	≤-20.55	PASS

Test Graphs

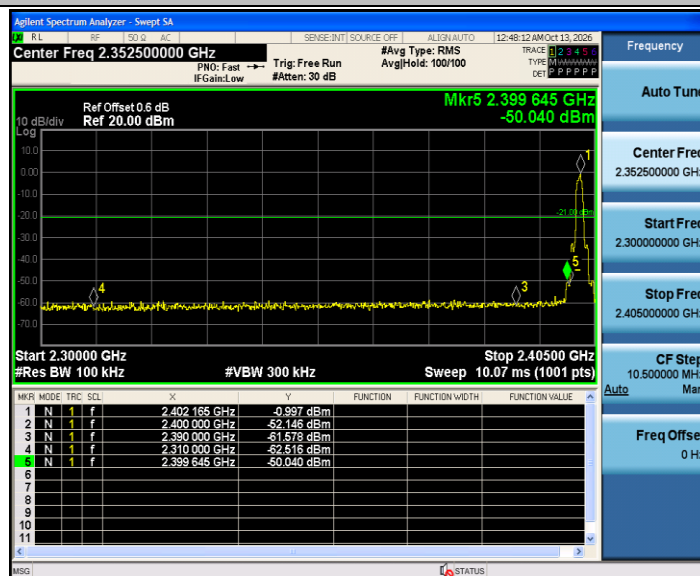




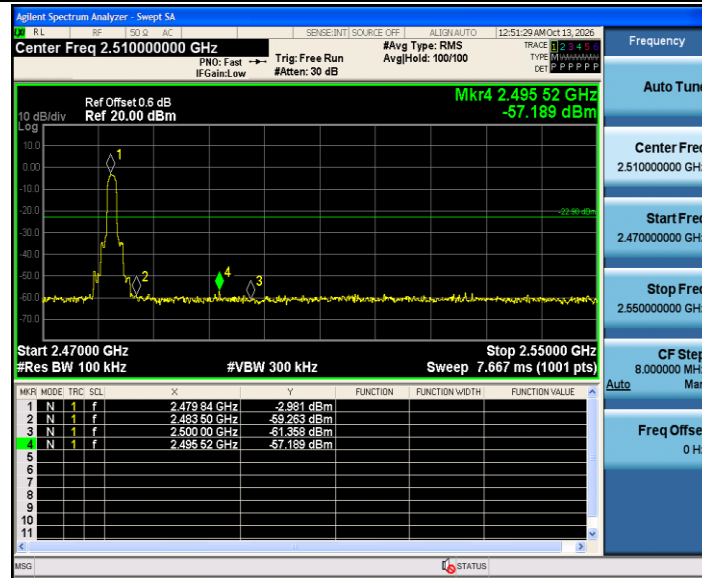
DH5_Ant1_High_Hop_2480



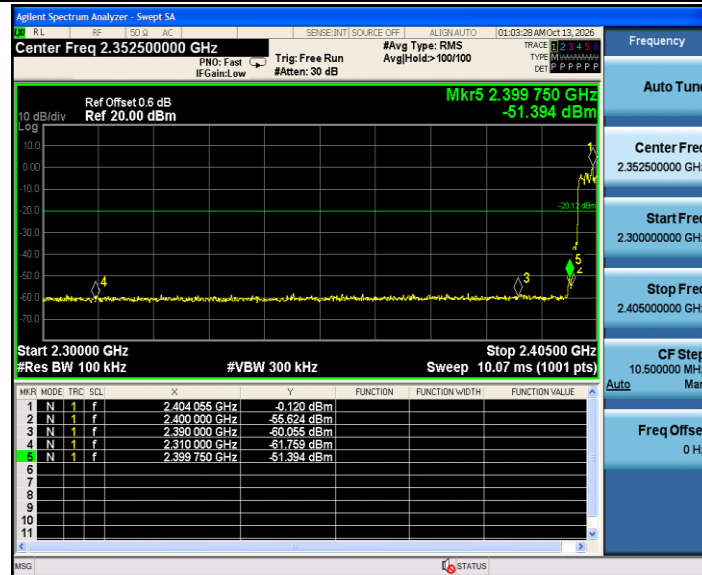
2DH5_Ant1_Low_2402



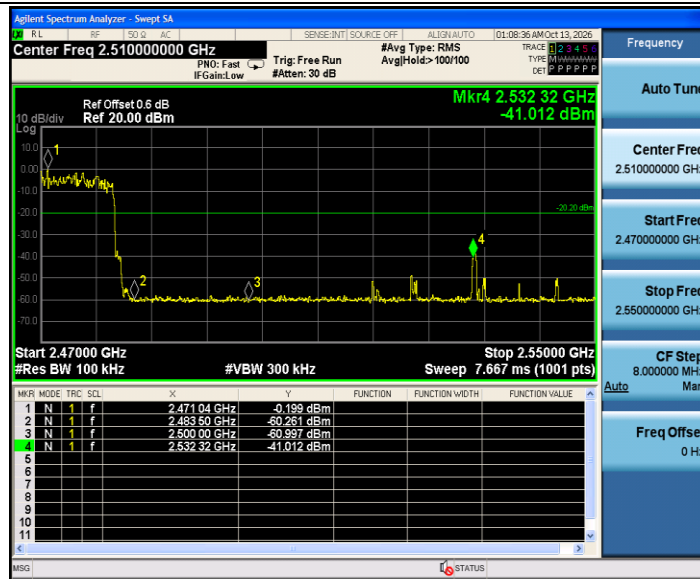
2DH5_Ant1_High_2480



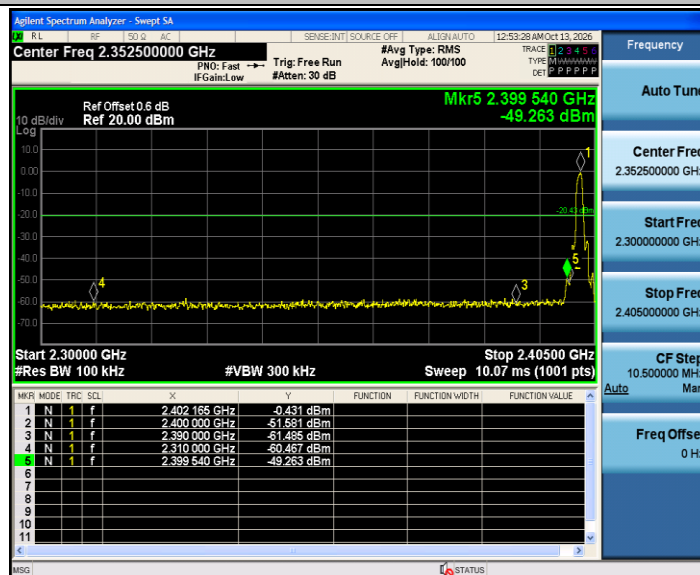
2DH5_Ant1_Low_Hop_2402



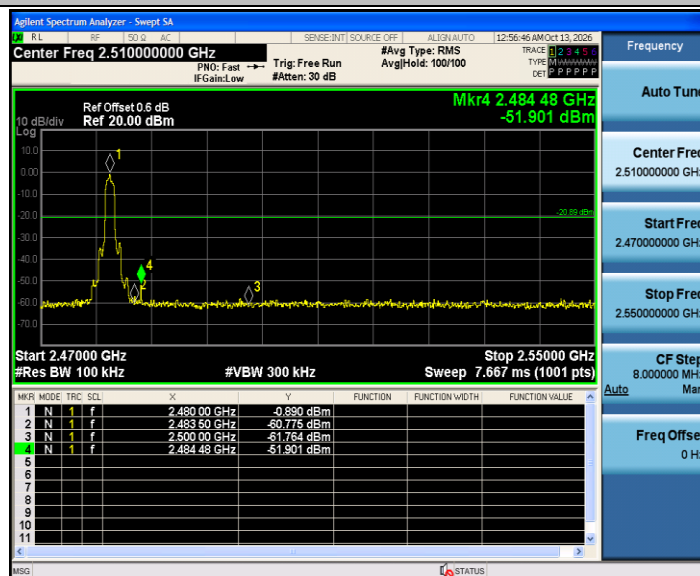
2DH5_Ant1_High_Hop_2480



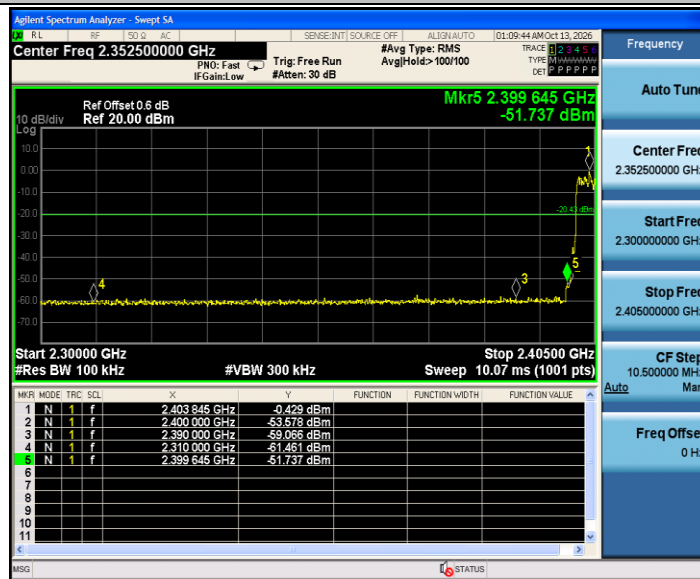
3DH5_Ant1_Low_2402



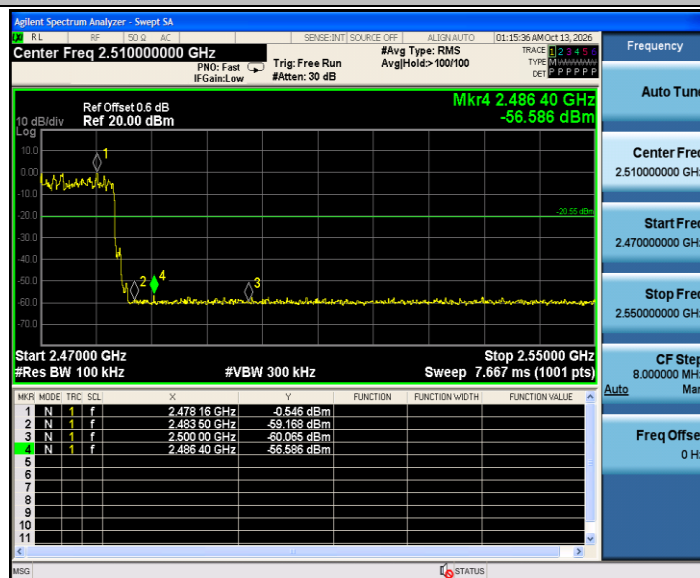
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

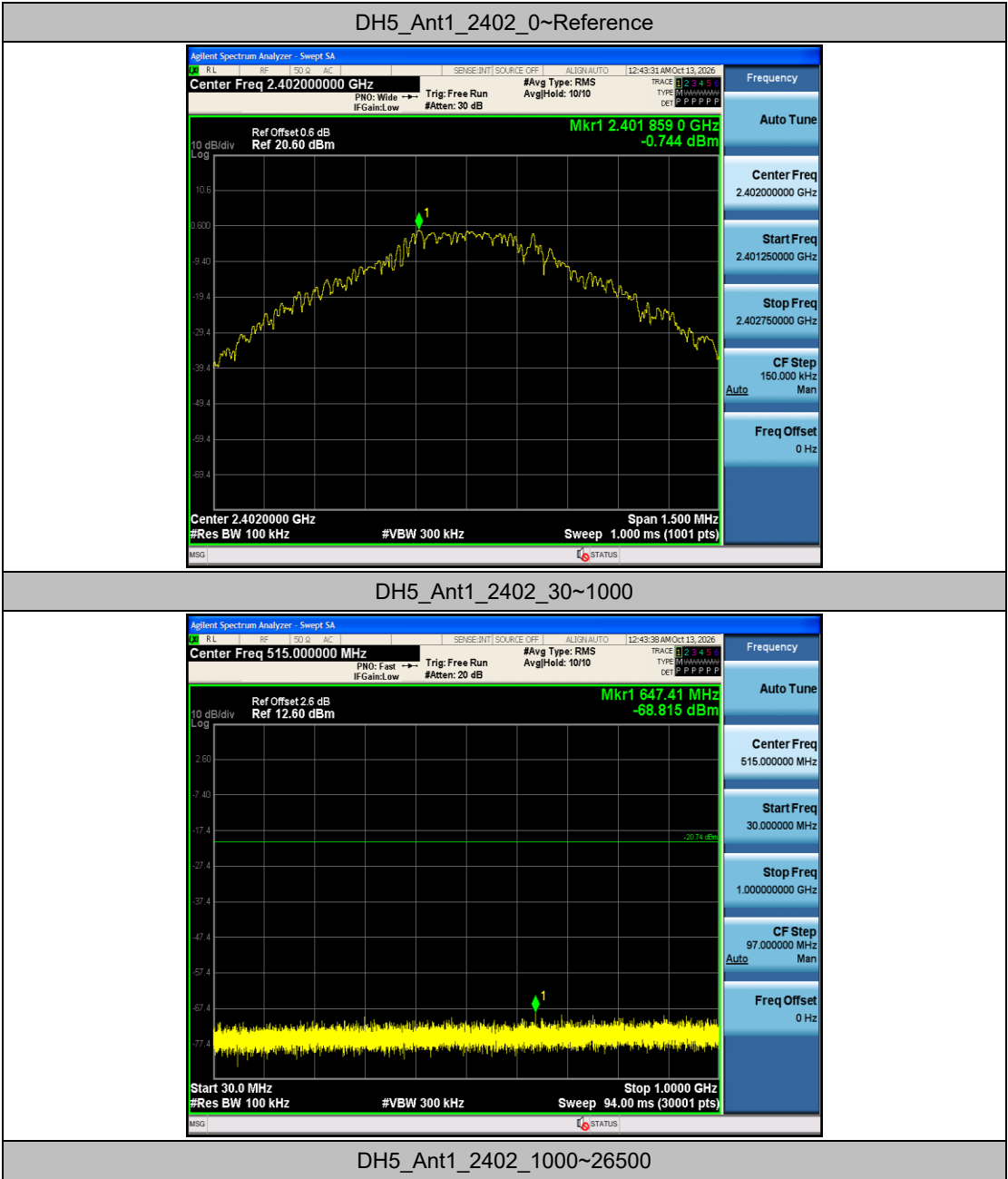


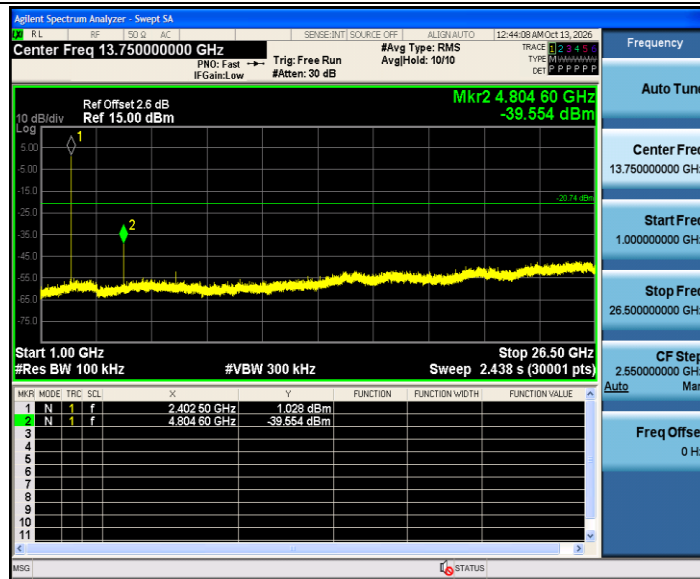
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.74	-0.74	---	PASS
			30~1000	-0.74	-68.82	≤-20.74	PASS
			1000~26500	-0.74	-39.55	≤-20.74	PASS
		2441	Reference	-1.05	-1.05	---	PASS
			30~1000	-1.05	-68.73	≤-21.05	PASS
			1000~26500	-1.05	-41.07	≤-21.05	PASS
		2480	Reference	-1.15	-1.15	---	PASS
			30~1000	-1.15	-67.71	≤-21.15	PASS
			1000~26500	-1.15	-40.85	≤-21.15	PASS
2DH5	Ant1	2402	Reference	-0.16	-0.16	---	PASS
			30~1000	-0.16	-67.73	≤-20.16	PASS
			1000~26500	-0.16	-43.11	≤-20.16	PASS
		2441	Reference	-3.56	-3.56	---	PASS
			30~1000	-3.56	-67.27	≤-23.56	PASS
			1000~26500	-3.56	-43.6	≤-23.56	PASS
		2480	Reference	-1.26	-1.26	---	PASS
			30~1000	-1.26	-67.83	≤-21.26	PASS
			1000~26500	-1.26	-44.38	≤-21.26	PASS
3DH5	Ant1	2402	Reference	-0.69	-0.69	---	PASS
			30~1000	-0.69	-68.77	≤-20.69	PASS
			1000~26500	-0.69	-43.15	≤-20.69	PASS
		2441	Reference	-1.24	-1.24	---	PASS
			30~1000	-1.24	-68.43	≤-21.24	PASS
			1000~26500	-1.24	-43.79	≤-21.24	PASS
		2480	Reference	-1.21	-1.21	---	PASS
			30~1000	-1.21	-67.82	≤-21.21	PASS
			1000~26500	-1.21	-44.17	≤-21.21	PASS

Test Graphs

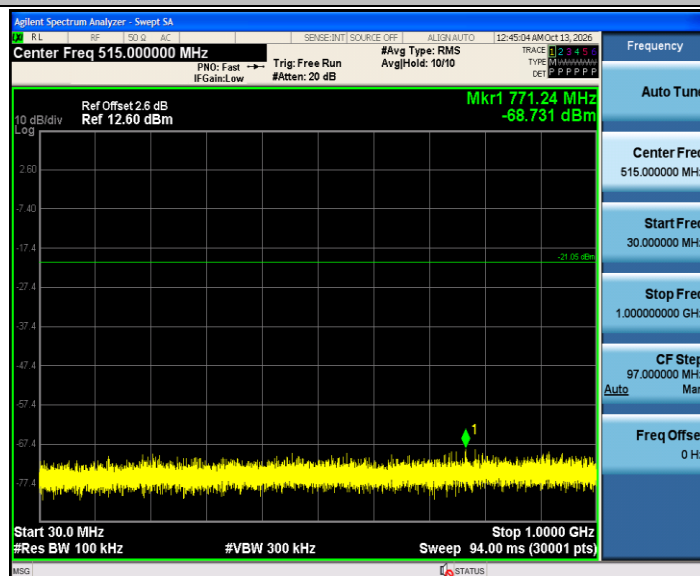




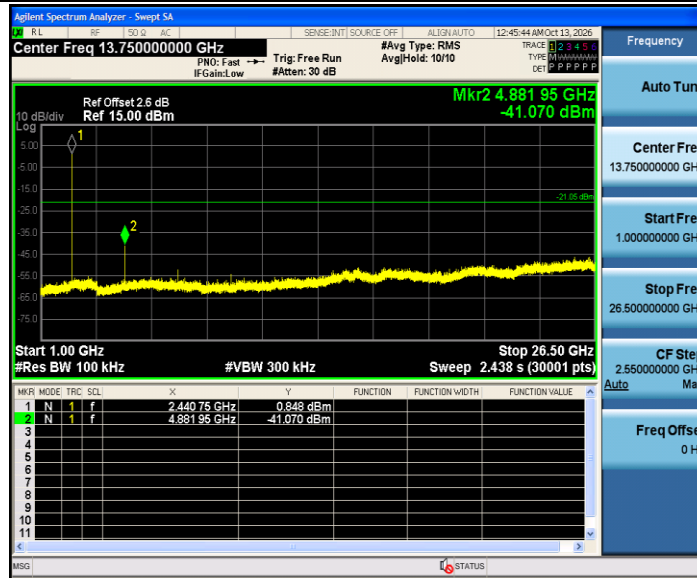
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



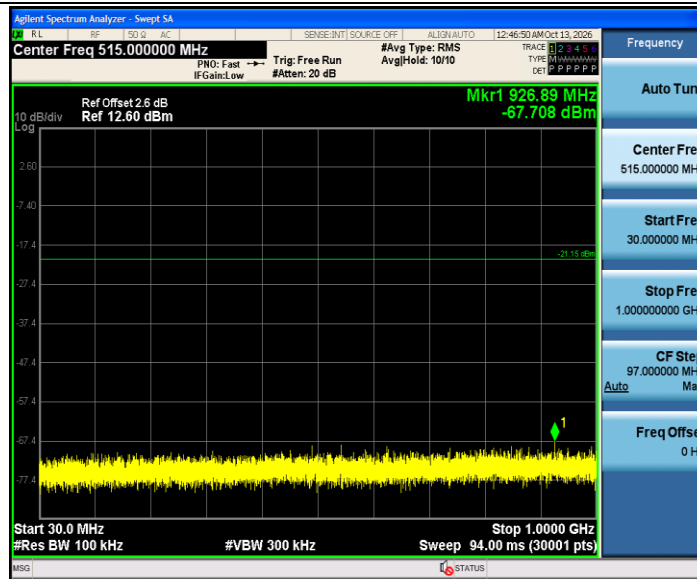
DH5_Ant1_2441_1000~26500



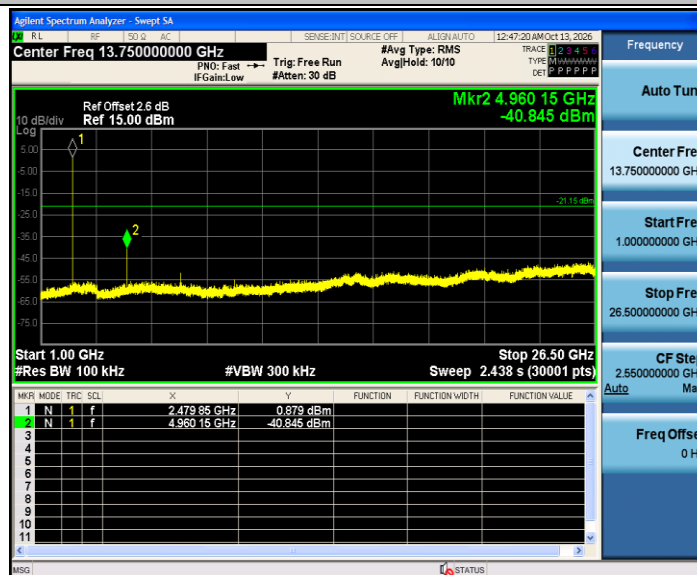
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



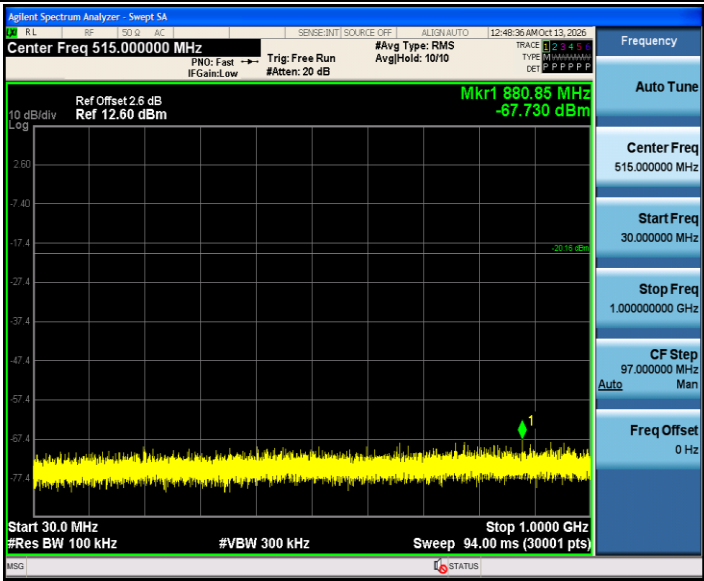
DH5_Ant1_2480_1000~26500



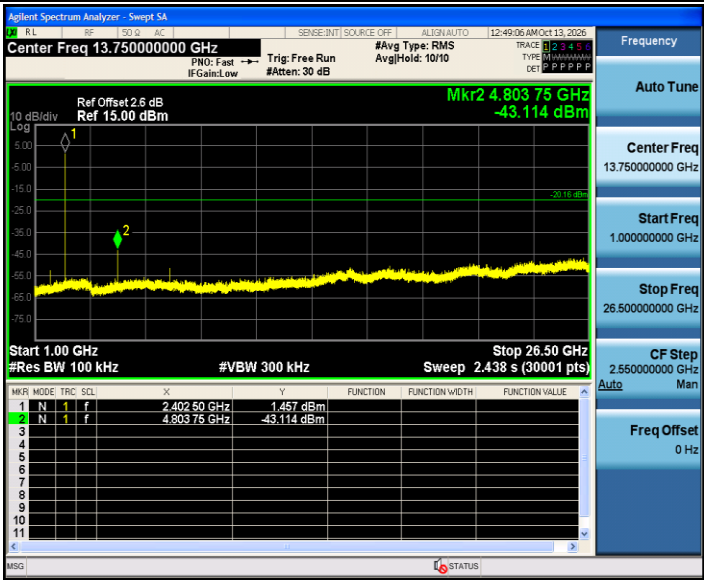
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference