

FCC Appendix RF Test Data for BT

FCC ID : 2BFTD460022

Company : Target Sports Ltd

EUT : OMNI AUTO SCORING SYSTEM

Model Number : 460022

Report No. : CTA26010601701

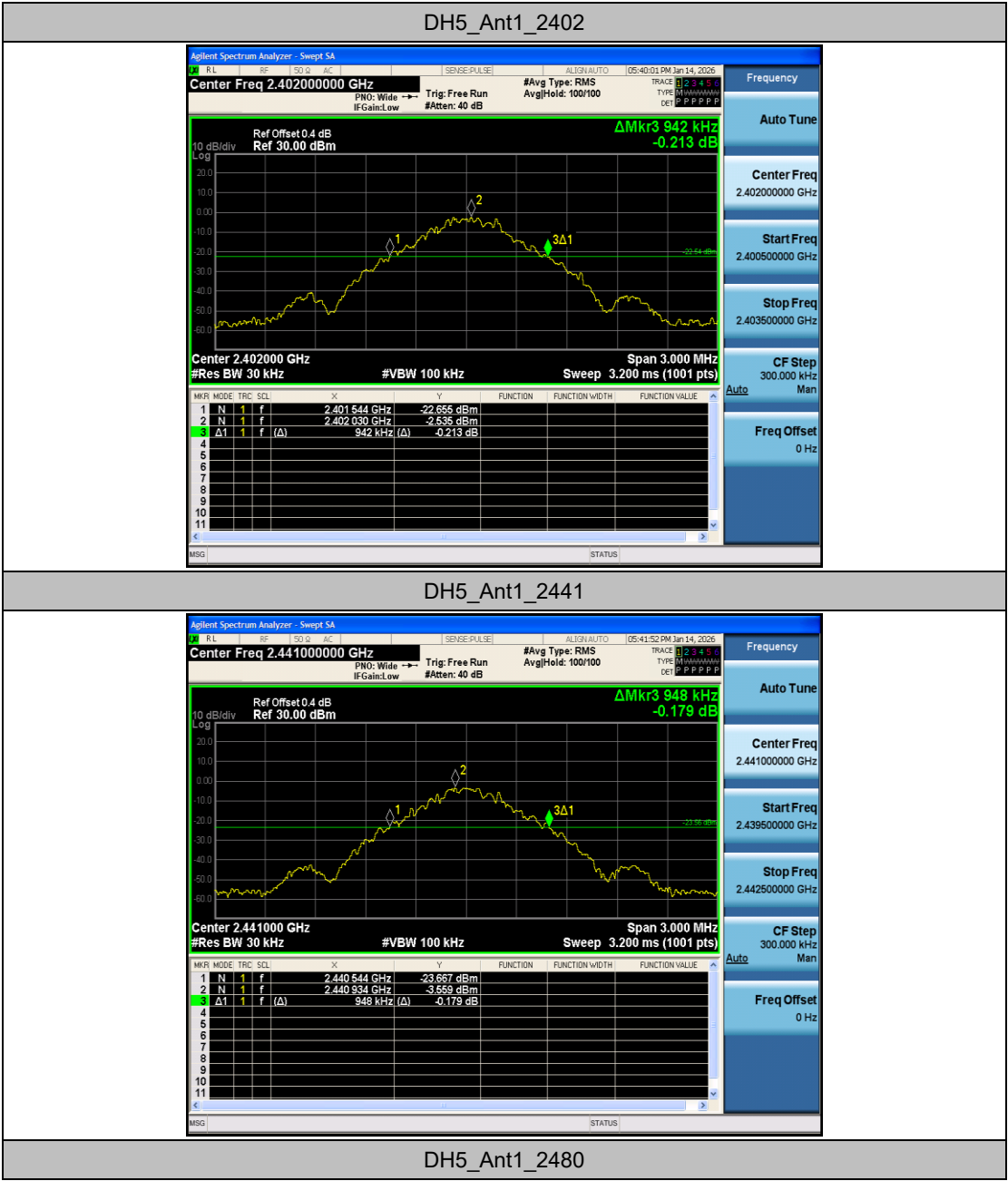
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.942	2401.544	2402.486	---	---
		2441	0.948	2440.544	2441.492	---	---
		2480	0.948	2479.547	2480.495	---	---
2DH5	Ant1	2402	1.284	2401.379	2402.663	---	---
		2441	1.287	2440.376	2441.663	---	---
		2480	1.290	2479.376	2480.666	---	---
3DH5	Ant1	2402	1.311	2401.355	2402.666	---	---
		2441	1.284	2440.379	2441.663	---	---
		2480	1.338	2479.340	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

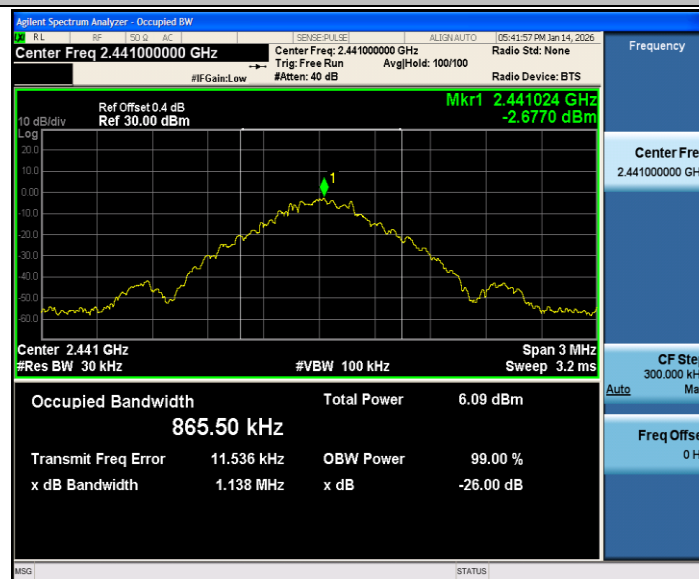
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87442	2401.5759	2402.4503	---	---
		2441	0.86550	2440.5788	2441.4443	---	---
		2480	0.85347	2479.5835	2480.4370	---	---
2DH5	Ant1	2402	1.1920	2401.4131	2402.6051	---	---
		2441	1.1842	2440.4205	2441.6047	---	---
		2480	1.1923	2479.4137	2480.6060	---	---
3DH5	Ant1	2402	1.1861	2401.4176	2402.6037	---	---
		2441	1.1885	2440.4156	2441.6041	---	---
		2480	1.1917	2479.4151	2480.6068	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



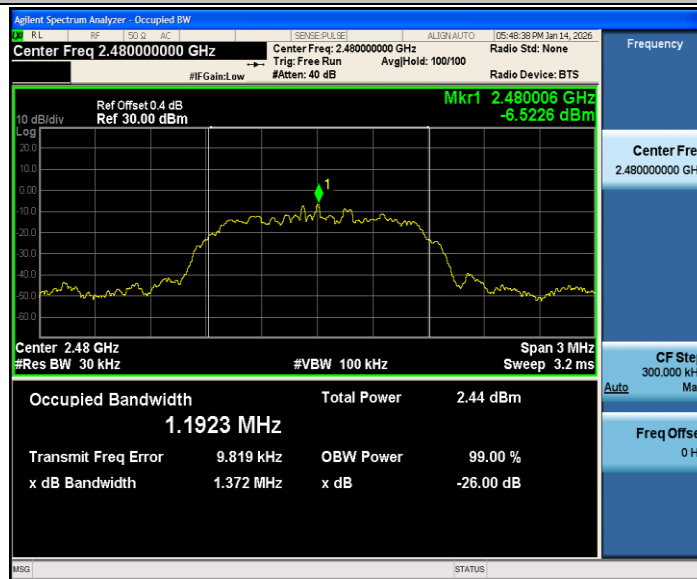
2DH5_Ant1_2402



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	0.21	≤20.97	PASS
		2441	-0.47	≤20.97	PASS
		2480	-0.69	≤20.97	PASS
2DH5	Ant1	2402	-0.61	≤20.97	PASS
		2441	-1.25	≤20.97	PASS
		2480	-1.61	≤20.97	PASS
3DH5	Ant1	2402	-0.67	≤20.97	PASS
		2441	-1.27	≤20.97	PASS
		2480	-1.51	≤20.97	PASS

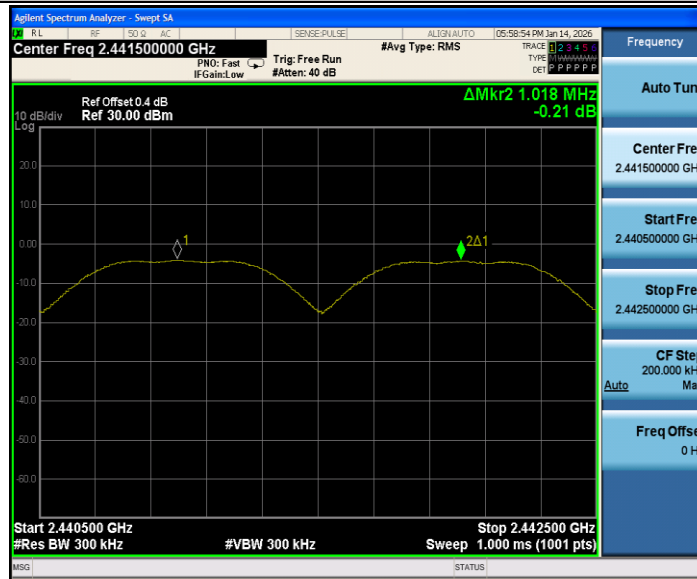
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.018	≥ 0.948	PASS
2DH5	Ant1	Hop	0.97	≥ 0.860	PASS
3DH5	Ant1	Hop	0.982	≥ 0.892	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

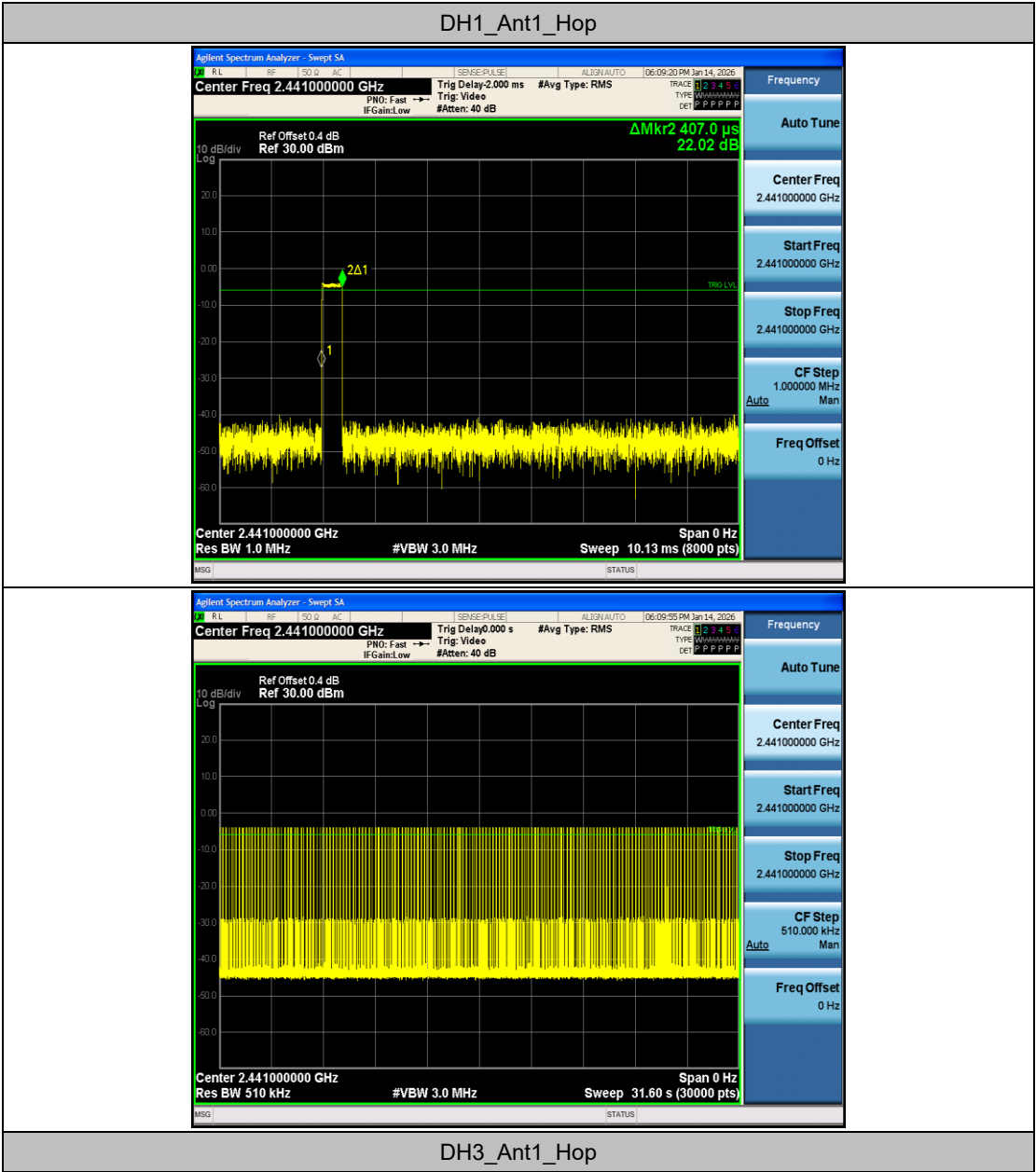


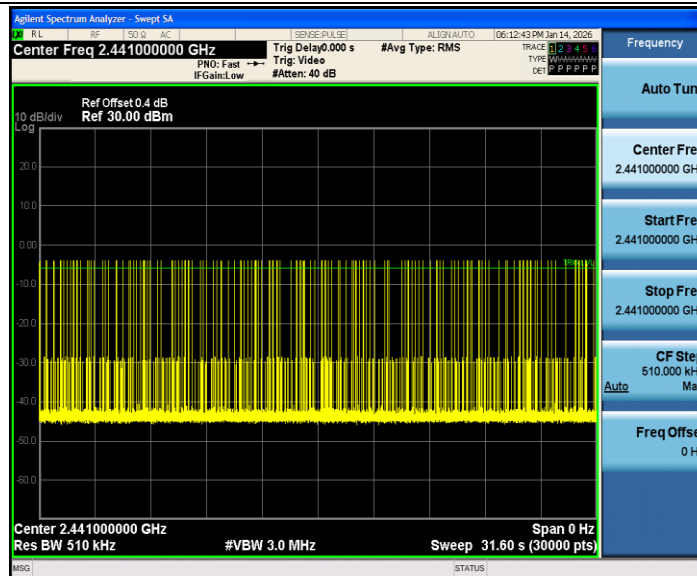
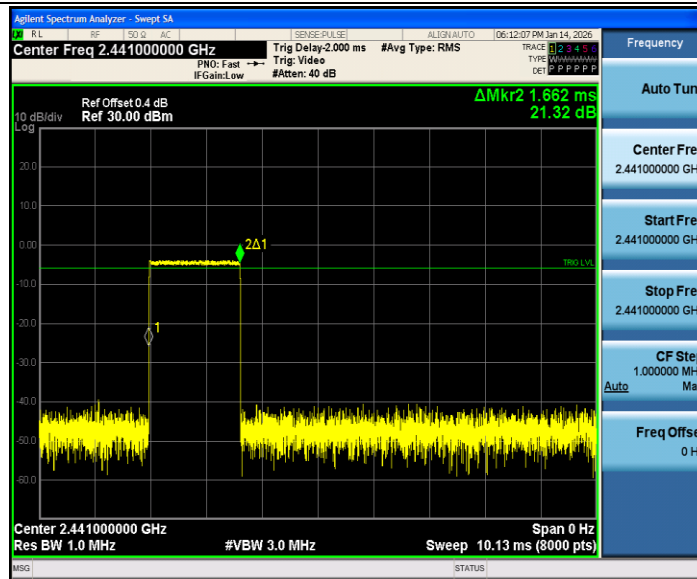
Appendix E: Time of occupancy

Test Result

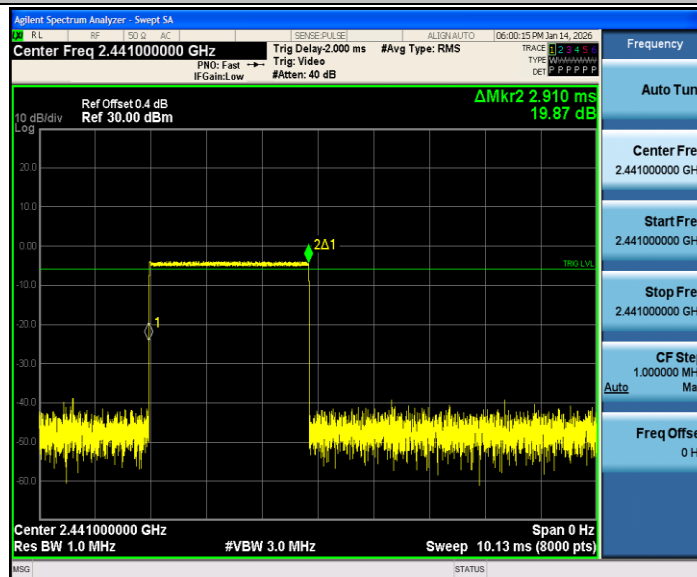
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	319	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.662	156	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.910	100	0.291	≤0.4	PASS
2DH1	Ant1	Hop	0.407	317	0.129	≤0.4	PASS
2DH3	Ant1	Hop	1.662	164	0.273	≤0.4	PASS
2DH5	Ant1	Hop	2.916	107	0.312	≤0.4	PASS
3DH1	Ant1	Hop	0.407	318	0.129	≤0.4	PASS
3DH3	Ant1	Hop	1.662	163	0.271	≤0.4	PASS
3DH5	Ant1	Hop	2.916	113	0.33	≤0.4	PASS

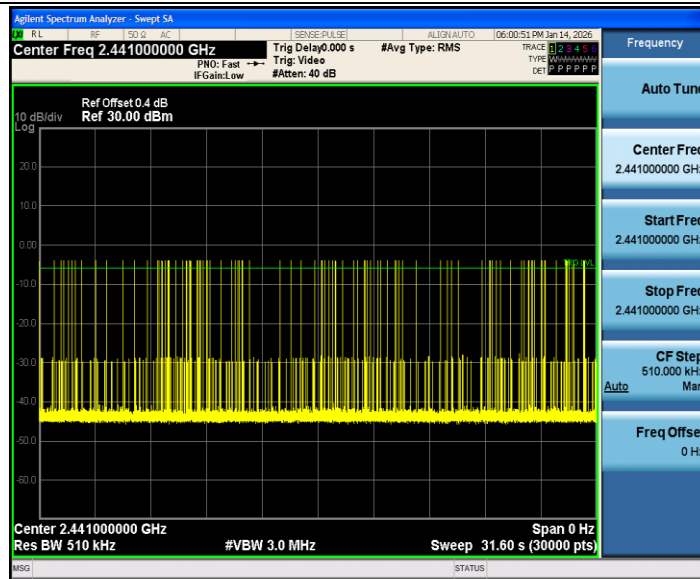
Test Graphs



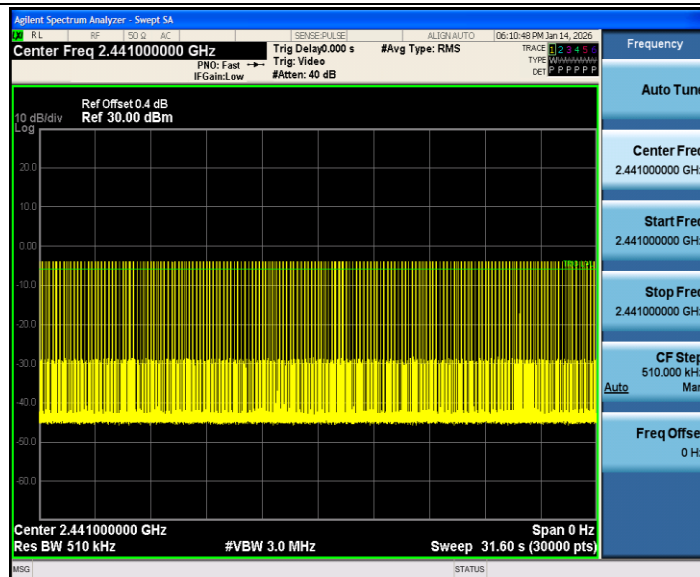
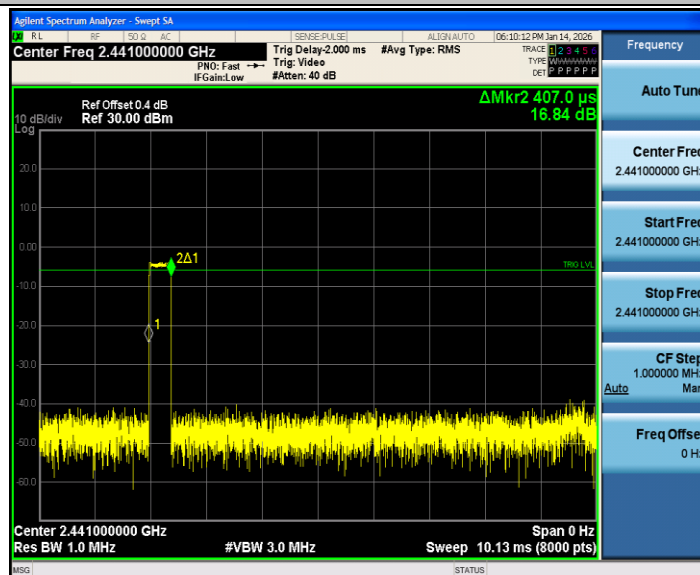


DH5_Ant1_Hop

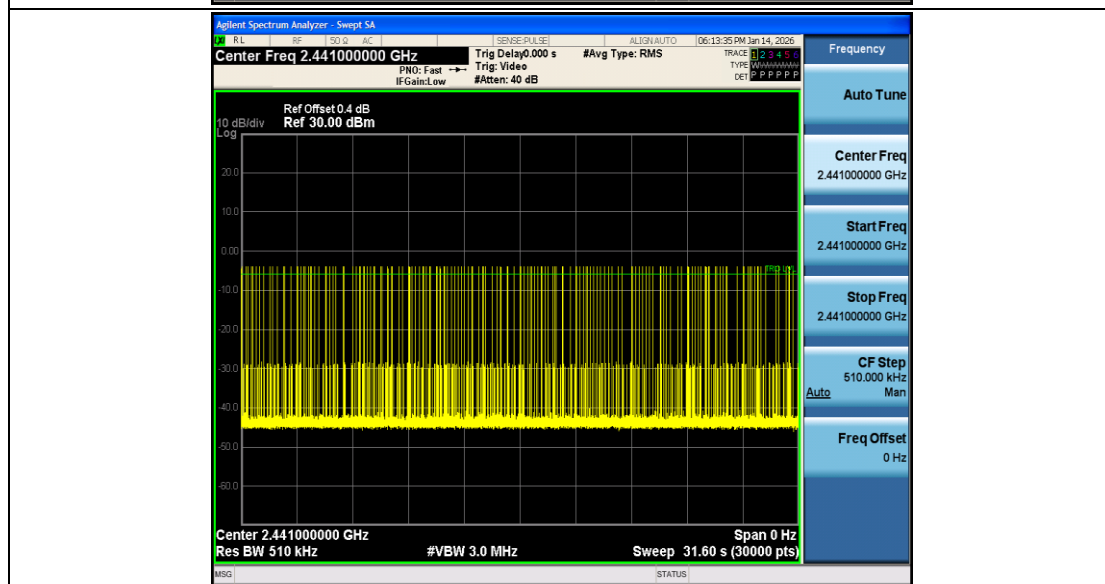
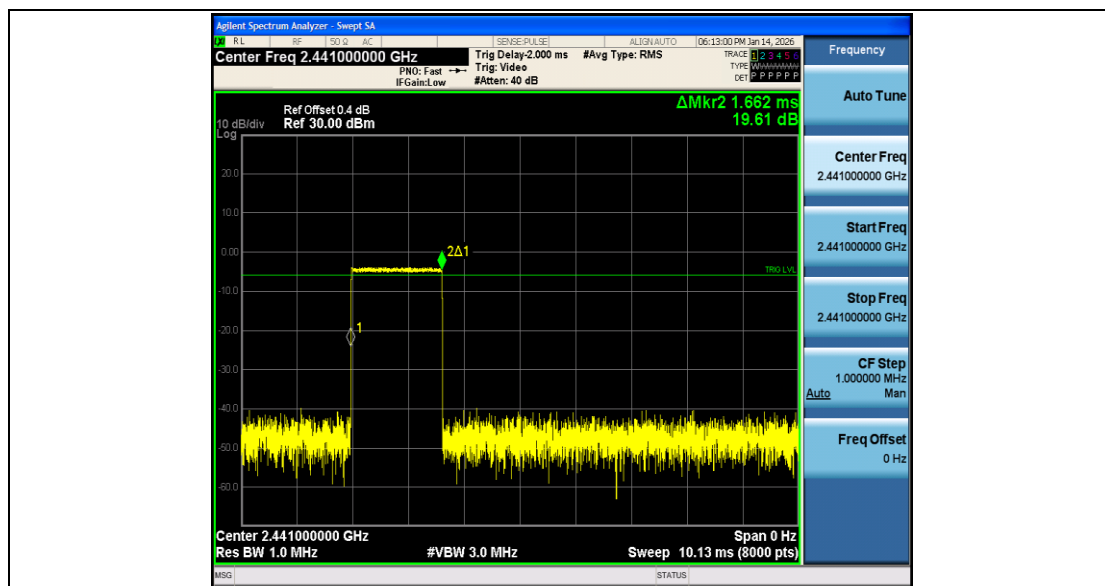




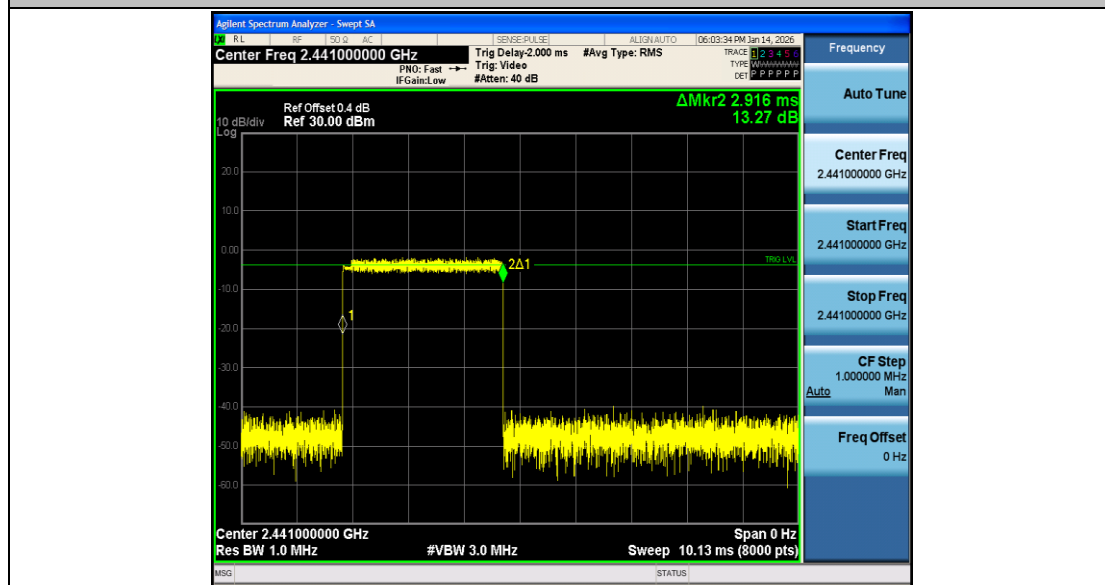
2DH1_Ant1_Hop



2DH3_Ant1_Hop

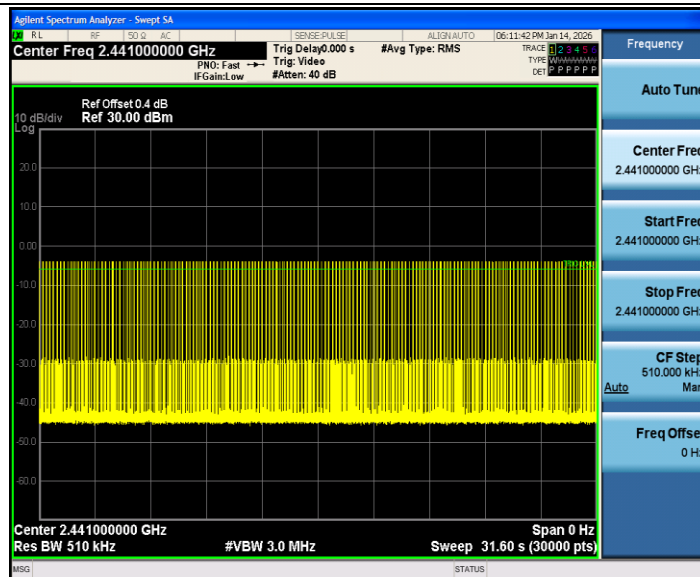
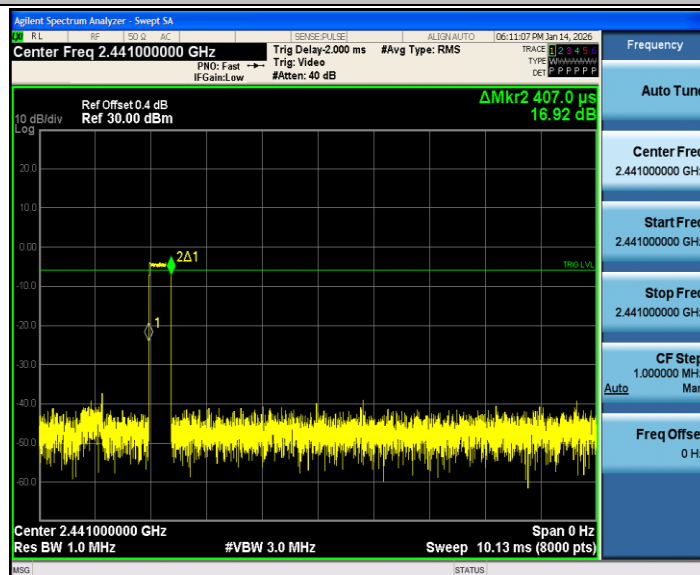


2DH5_Ant1_Hop

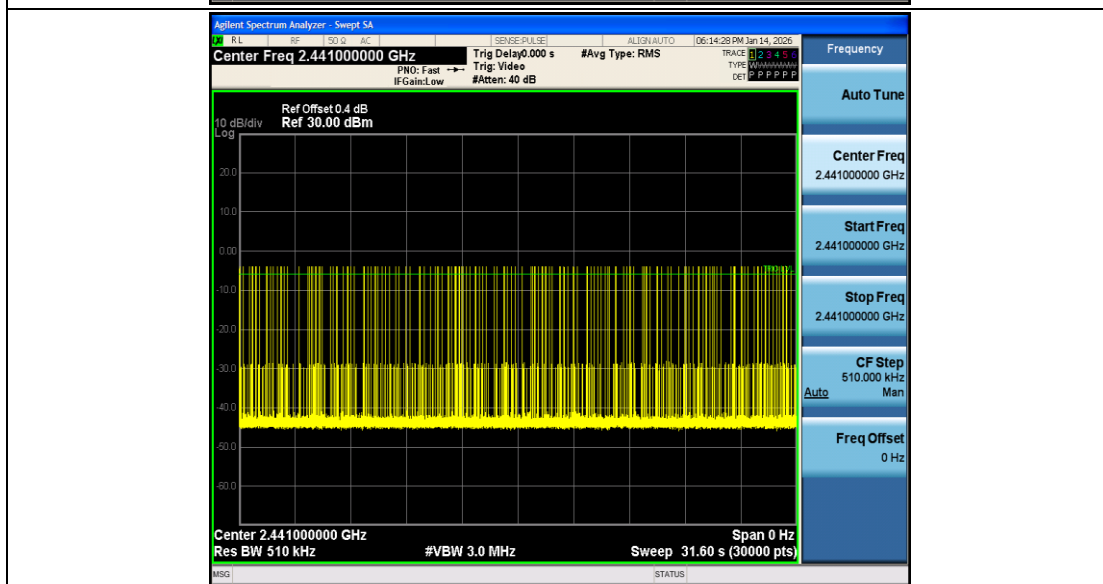
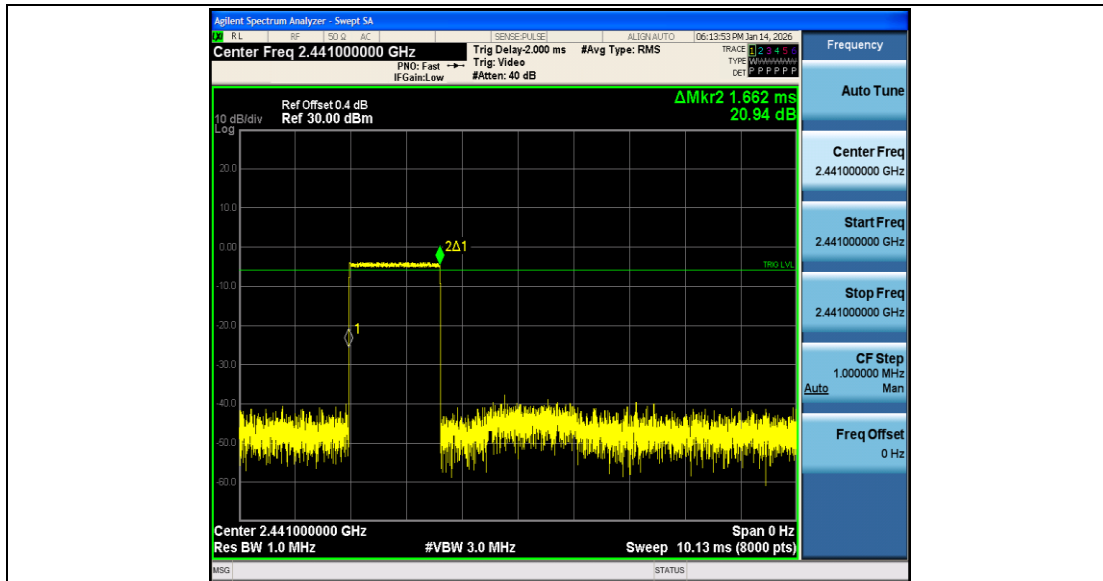




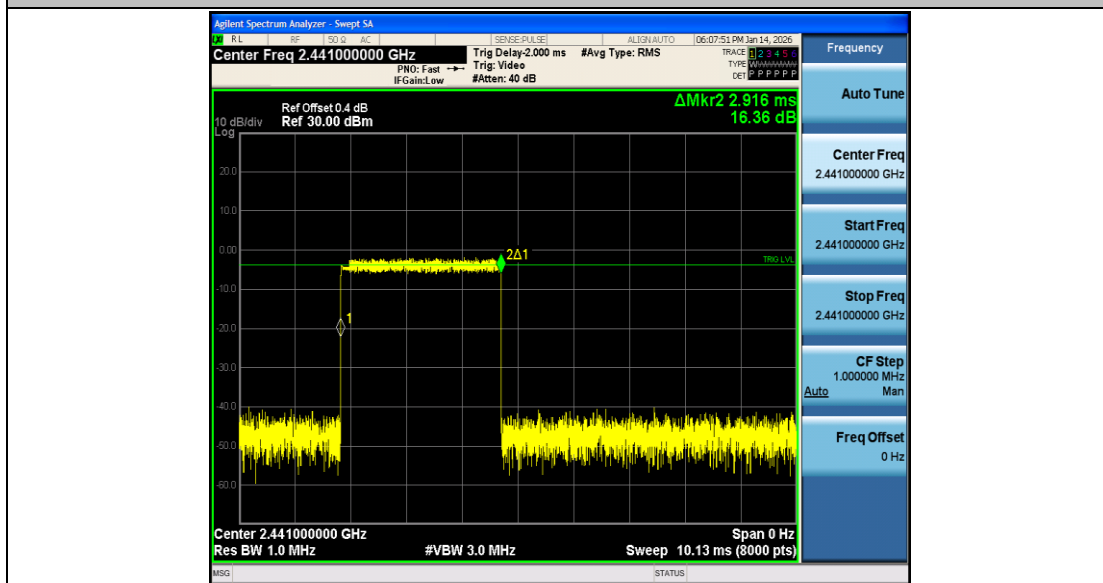
3DH1_Ant1_Hop

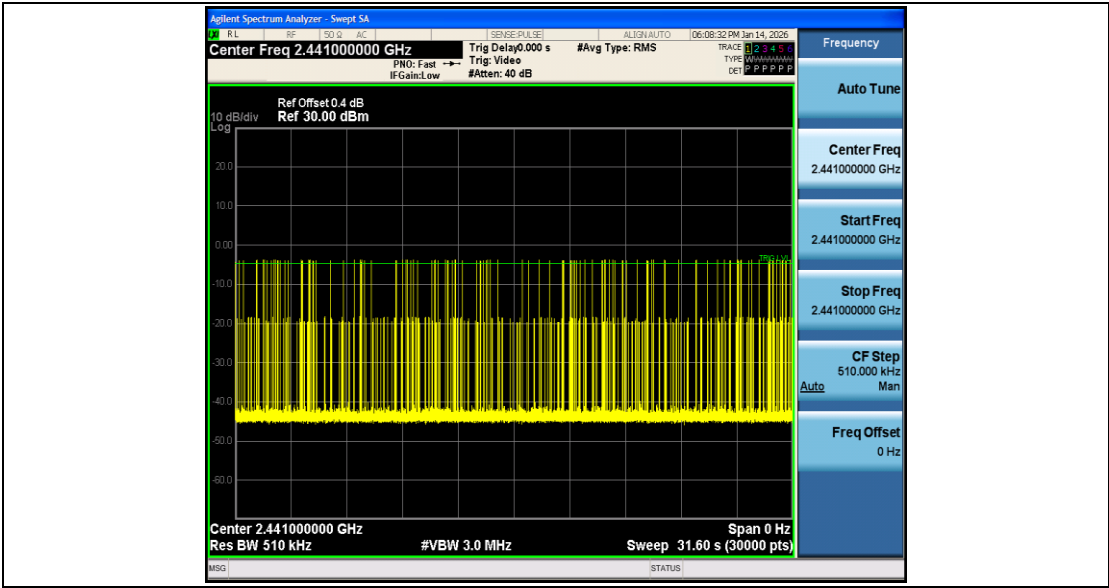


3DH3_Ant1_Hop



3DH5_Ant1_Hop



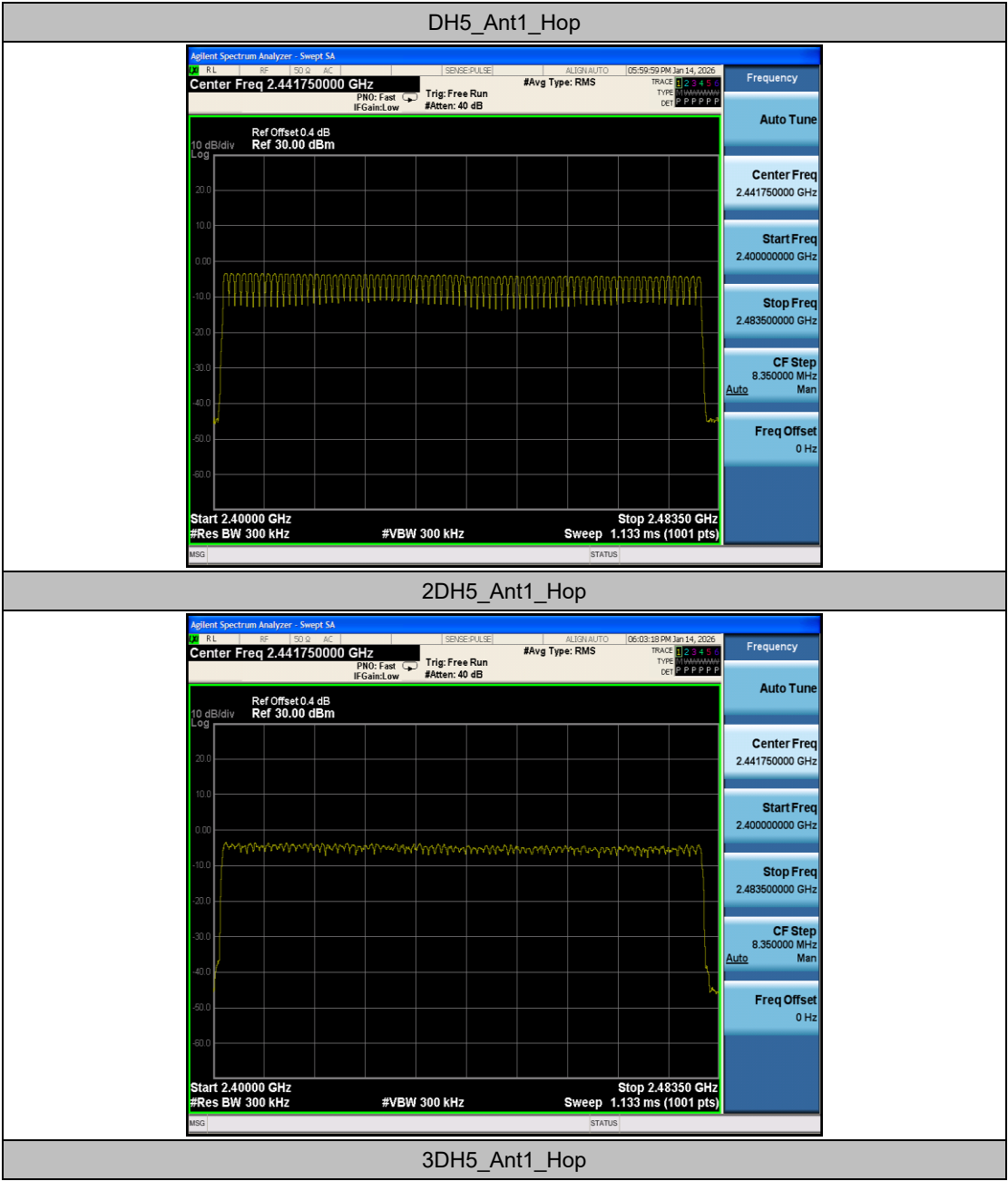


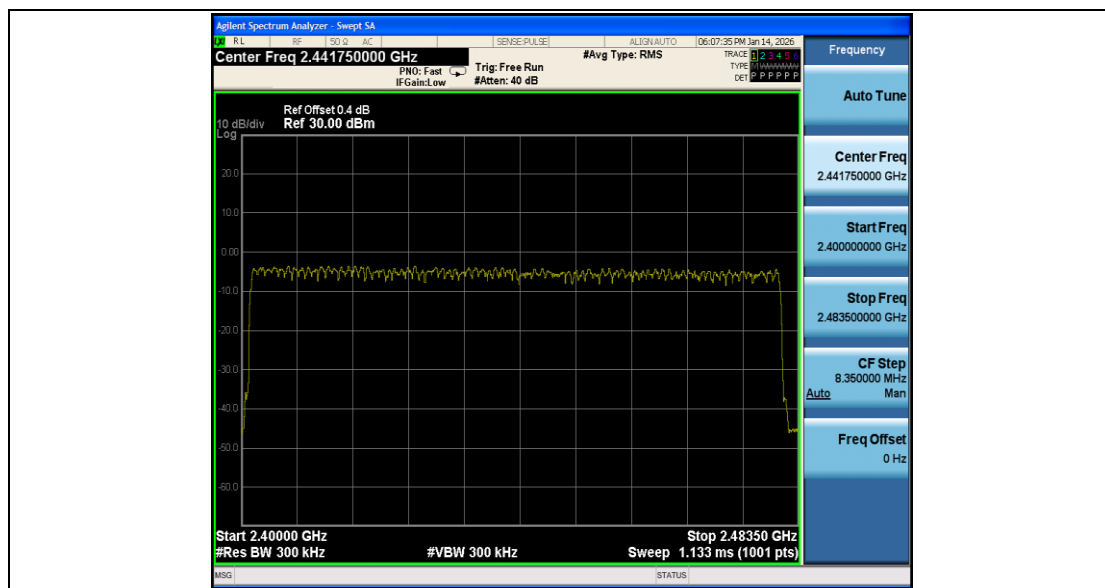
Appendix F: Number of hopping channels

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



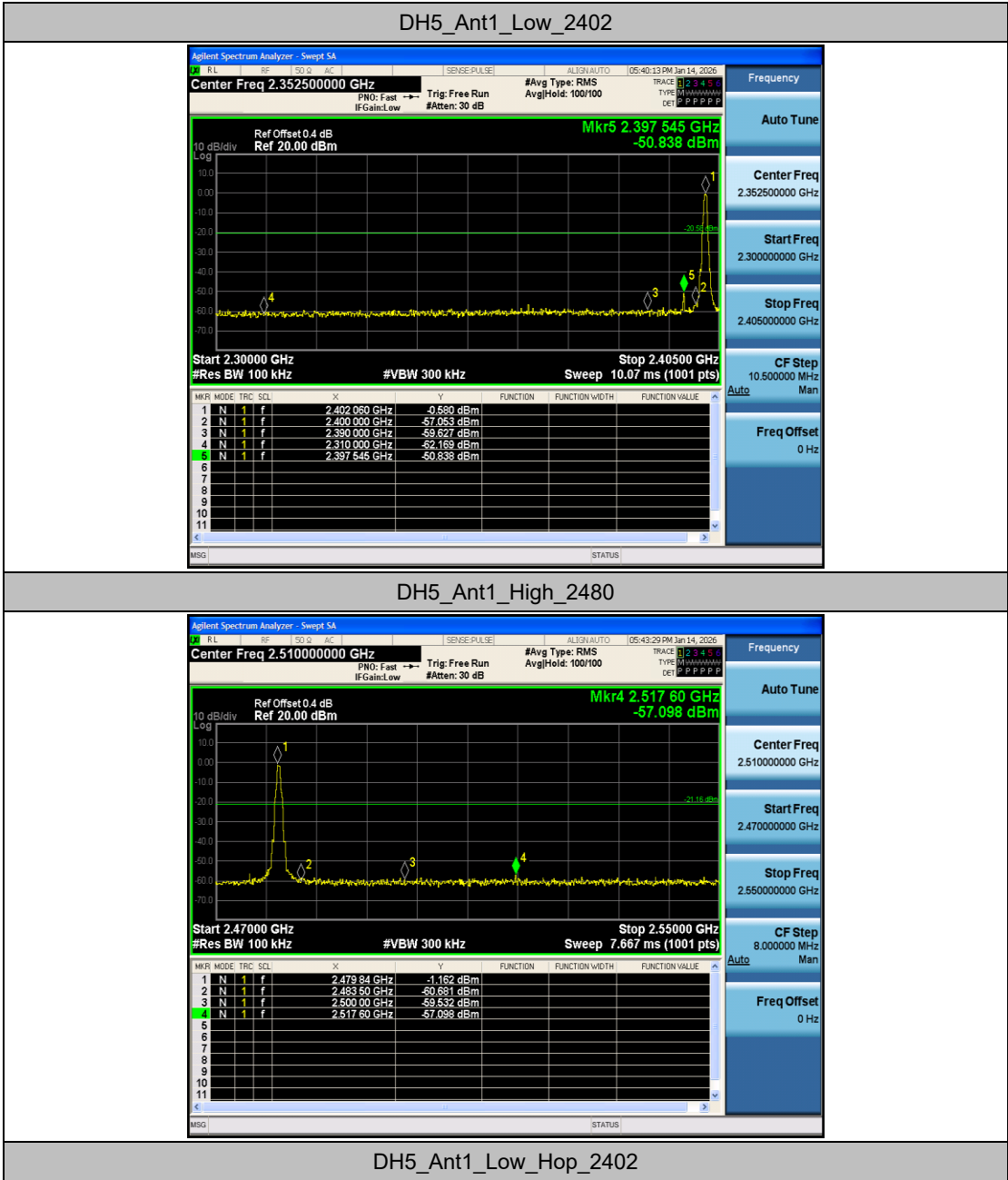


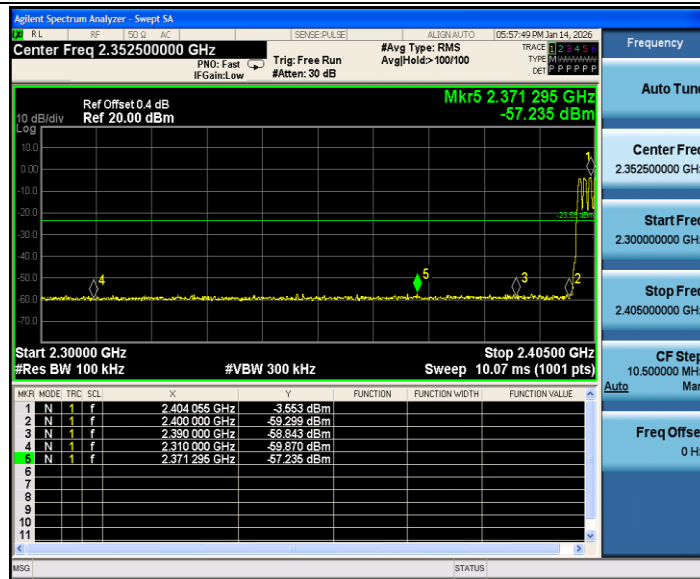
Appendix G: Band edge measurements

Test Result

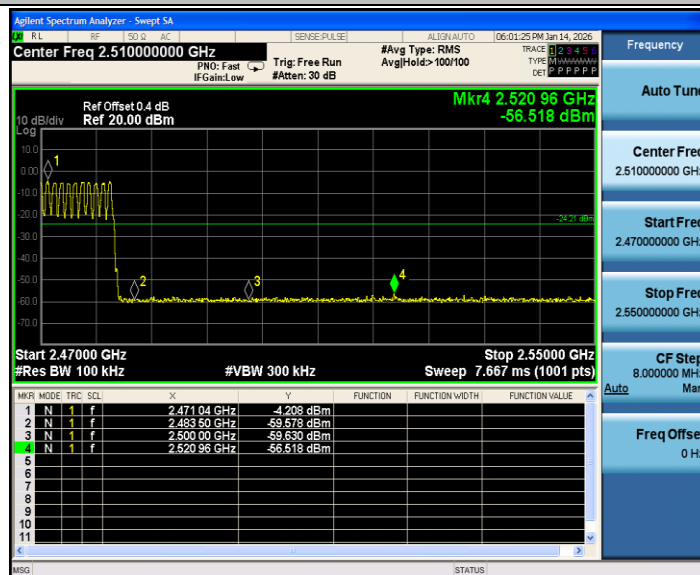
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.58	-50.84	≤-20.58	PASS
		High	2480	-1.16	-57.1	≤-21.16	PASS
		Low	Hop_2402	-3.55	-57.24	≤-23.55	PASS
		High	Hop_2480	-4.21	-56.52	≤-24.21	PASS
2DH5	Ant1	Low	2402	-5.38	-56.52	≤-25.38	PASS
		High	2480	-5.64	-57.29	≤-25.64	PASS
		Low	Hop_2402	-4.94	-57.22	≤-24.94	PASS
		High	Hop_2480	-6.25	-58.12	≤-26.25	PASS
3DH5	Ant1	Low	2402	-4.11	-56.37	≤-24.11	PASS
		High	2480	-4.60	-57.58	≤-24.6	PASS
		Low	Hop_2402	-3.31	-57.01	≤-23.31	PASS
		High	Hop_2480	-4.23	-56.95	≤-24.23	PASS

Test Graphs

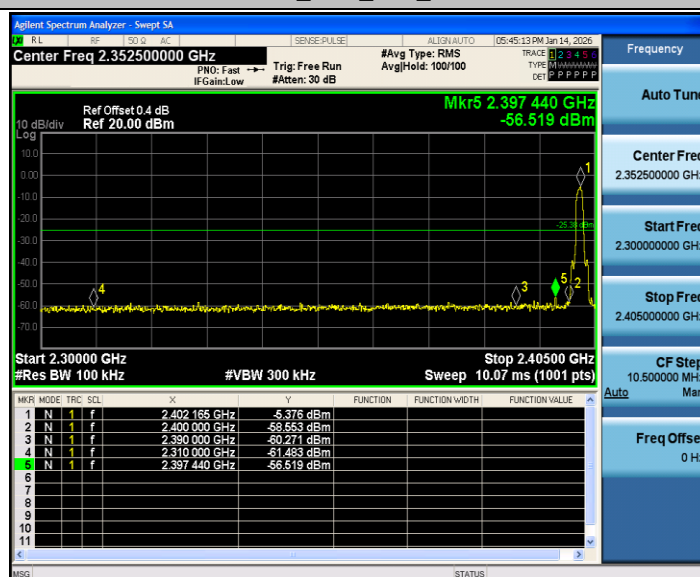




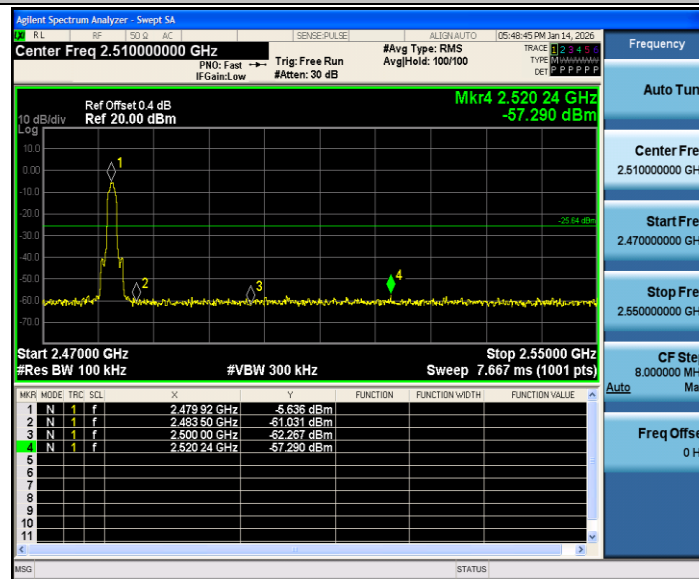
DH5_Ant1_High_Hop_2480



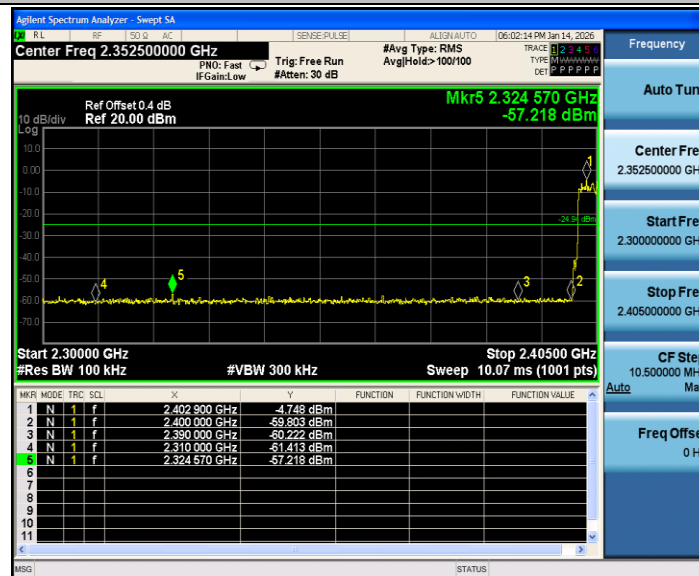
2DH5_Ant1_Low_2402



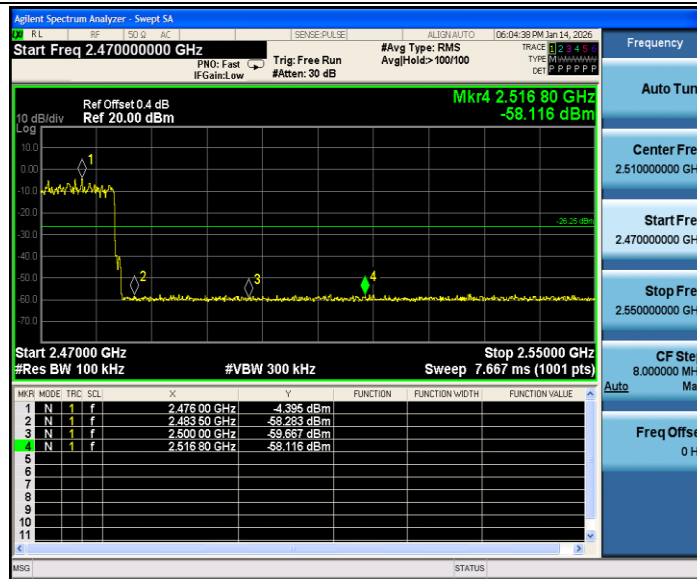
2DH5_Ant1_High_2480



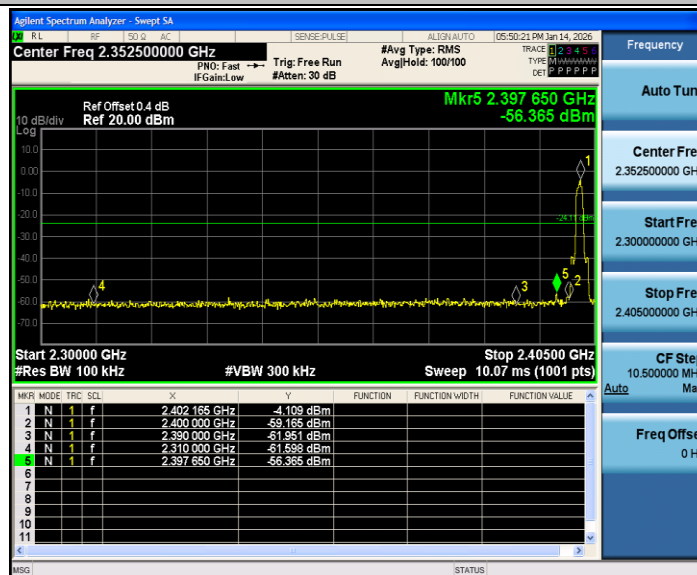
2DH5_Ant1_Low_Hop_2402



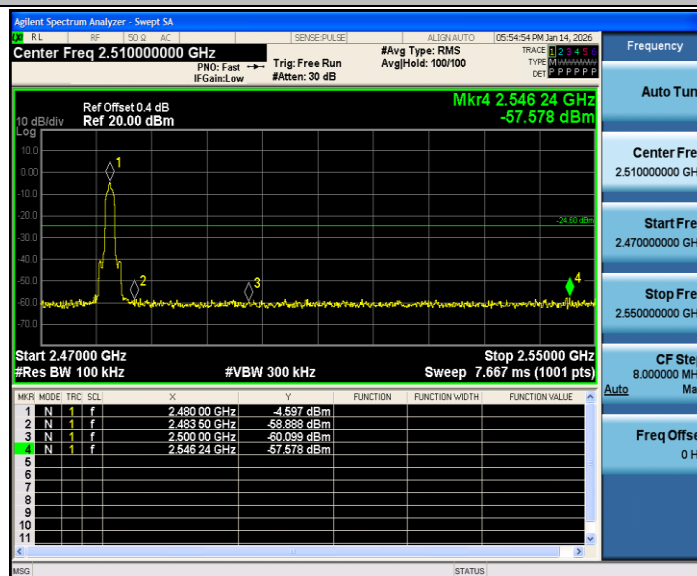
2DH5_Ant1_High_Hop_2480



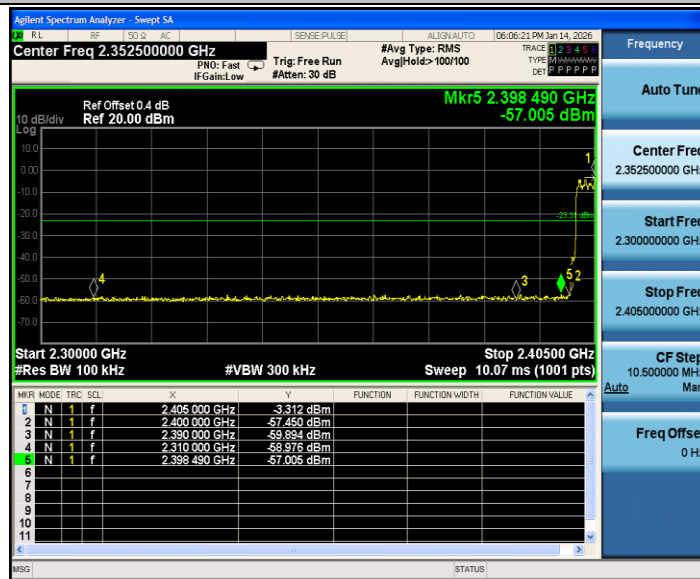
3DH5_Ant1_Low_2402



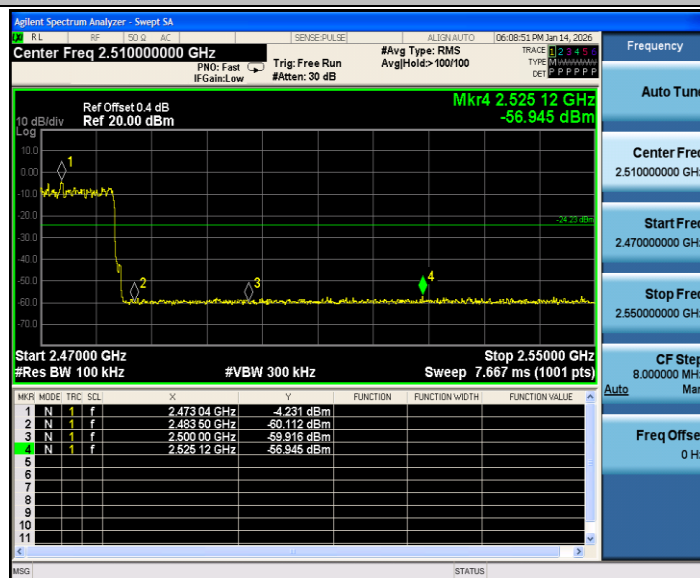
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

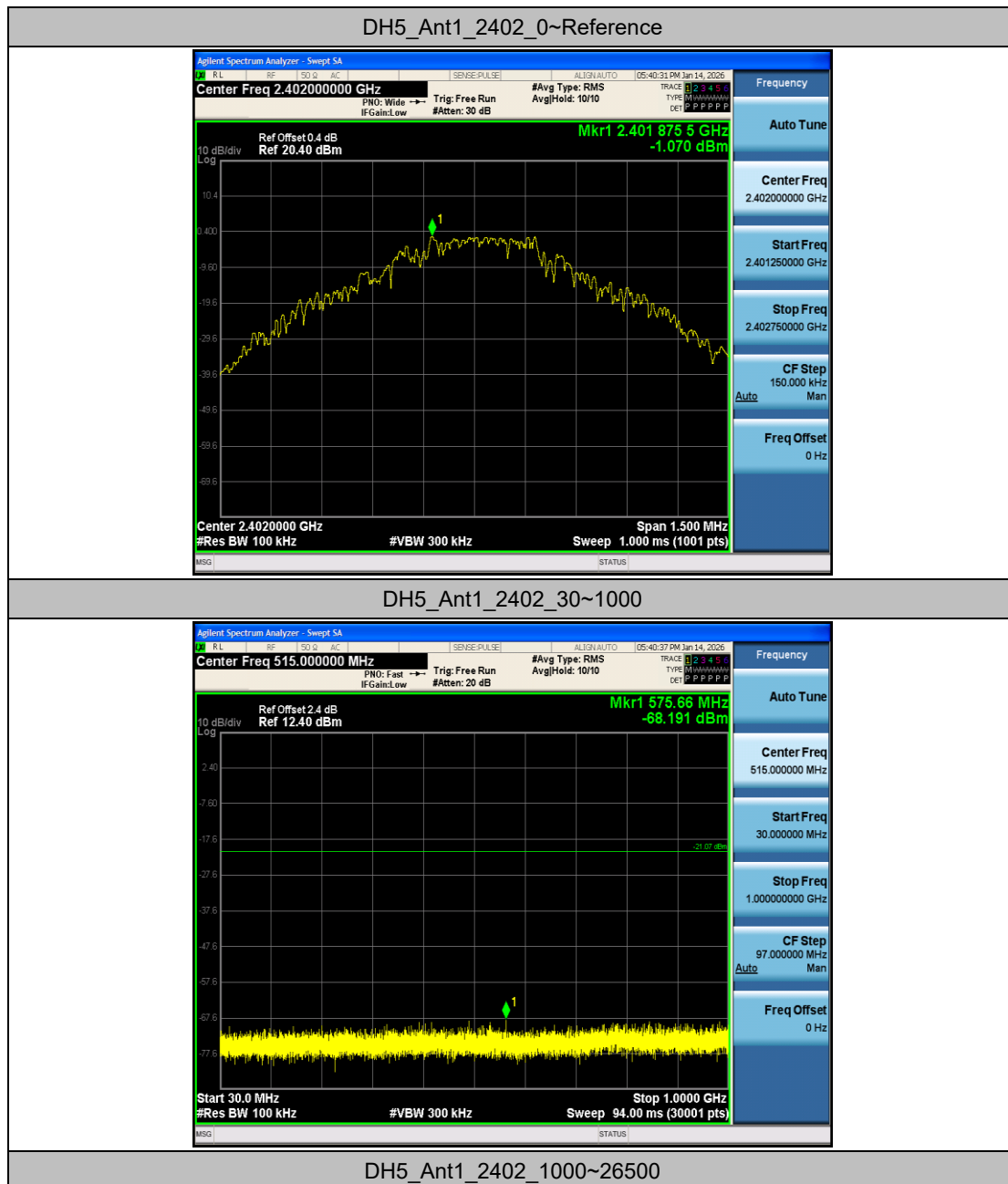


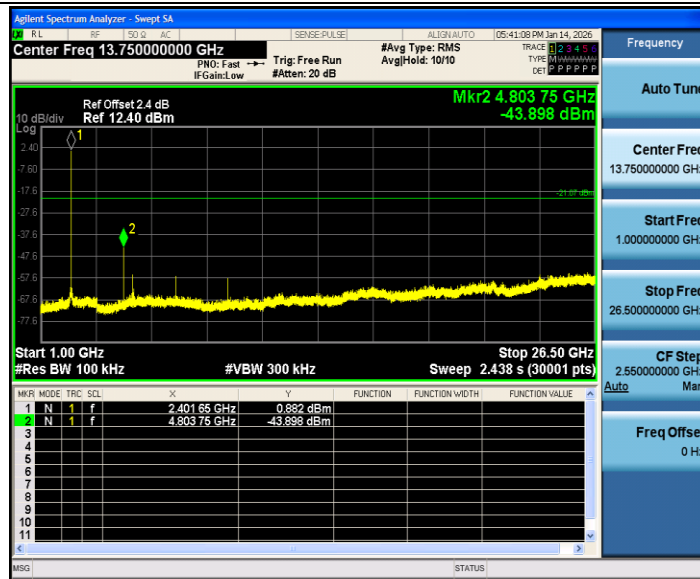
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.07	-1.07	---	PASS
			30~1000	-1.07	-68.19	≤-21.07	PASS
			1000~26500	-1.07	-43.9	≤-21.07	PASS
		2441	Reference	-2.11	-2.11	---	PASS
			30~1000	-2.11	-67.88	≤-22.11	PASS
			1000~26500	-2.11	-44	≤-22.11	PASS
		2480	Reference	-1.46	-1.46	---	PASS
			30~1000	-1.46	-62.63	≤-21.46	PASS
			1000~26500	-1.46	-44.68	≤-21.46	PASS
2DH5	Ant1	2402	Reference	-4.43	-4.43	---	PASS
			30~1000	-4.43	-68.15	≤-24.43	PASS
			1000~26500	-4.43	-49.56	≤-24.43	PASS
		2441	Reference	-5.90	-5.90	---	PASS
			30~1000	-5.90	-61.75	≤-25.9	PASS
			1000~26500	-5.90	-49.58	≤-25.9	PASS
		2480	Reference	-5.80	-5.80	---	PASS
			30~1000	-5.80	-64.53	≤-25.8	PASS
			1000~26500	-5.80	-51.4	≤-25.8	PASS
3DH5	Ant1	2402	Reference	-5.07	-5.07	---	PASS
			30~1000	-5.07	-67.87	≤-25.07	PASS
			1000~26500	-5.07	-51.17	≤-25.07	PASS
		2441	Reference	-5.20	-5.20	---	PASS
			30~1000	-5.20	-67.89	≤-25.2	PASS
			1000~26500	-5.20	-47.34	≤-25.2	PASS
		2480	Reference	-5.60	-5.60	---	PASS
			30~1000	-5.60	-68.53	≤-25.6	PASS
			1000~26500	-5.60	-48.49	≤-25.6	PASS

Test Graphs

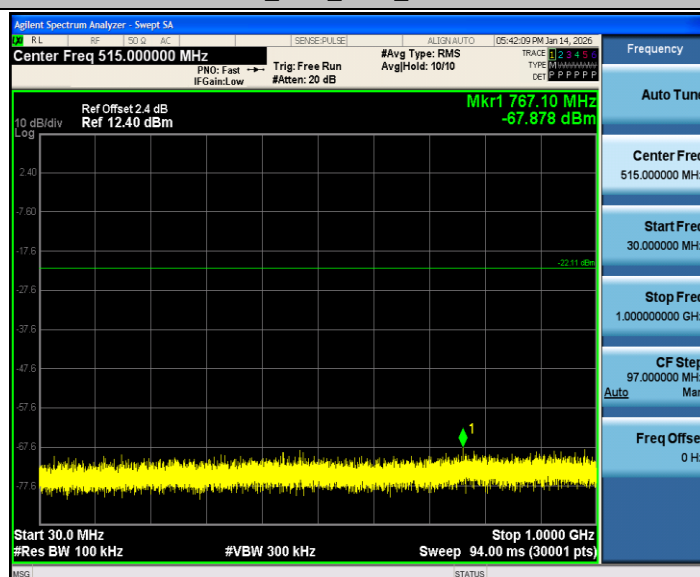




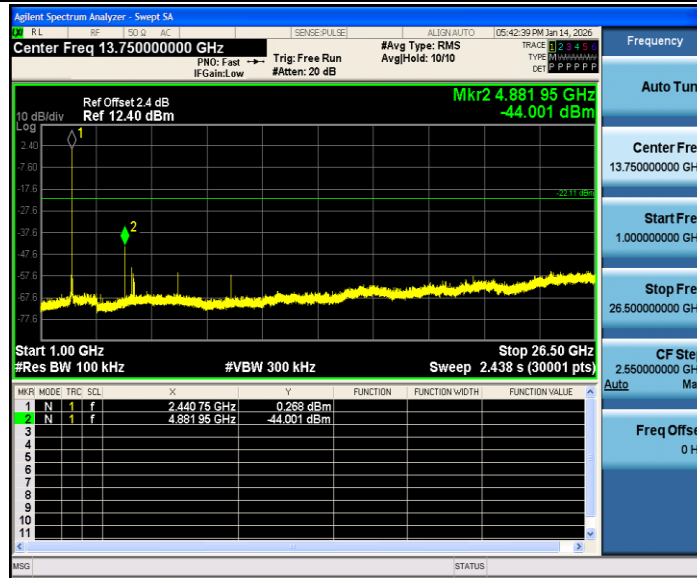
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



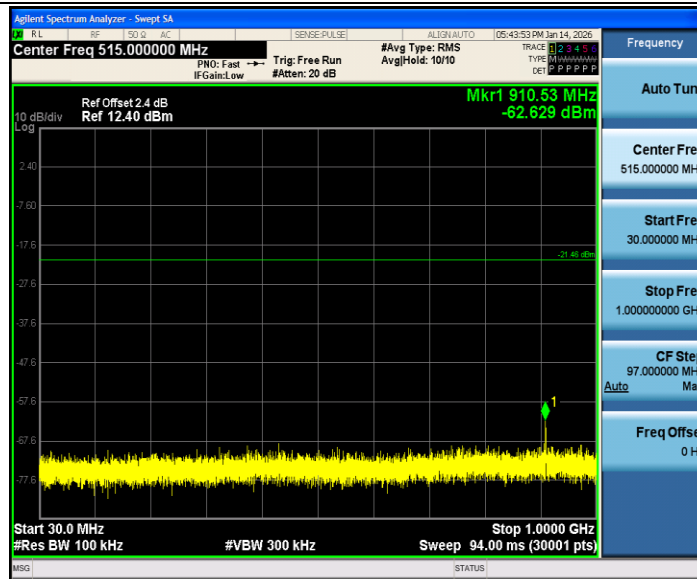
DH5_Ant1_2441_1000~26500



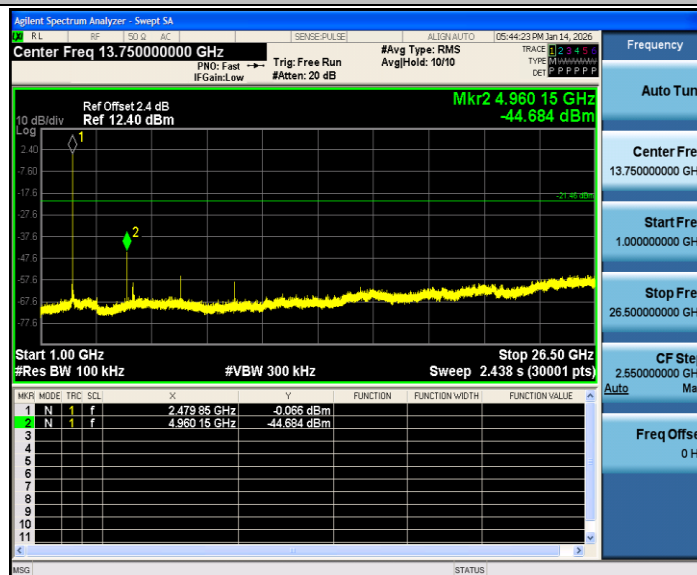
DH5_Ant1_2480_0~Reference



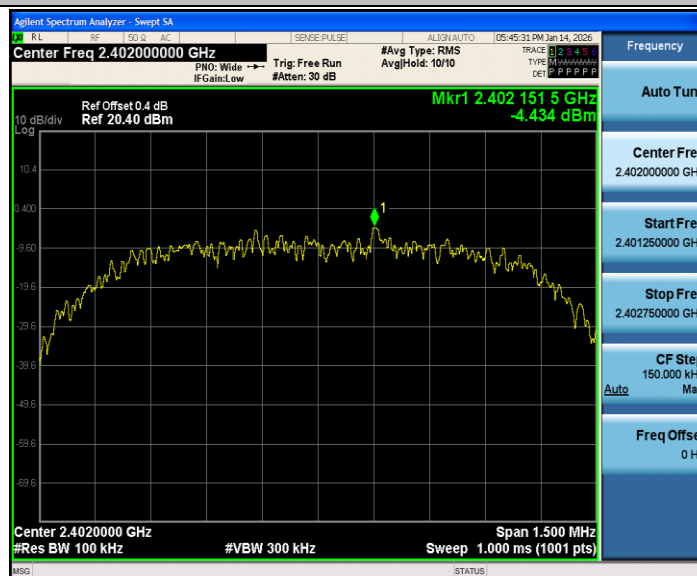
DH5_Ant1_2480_30~1000



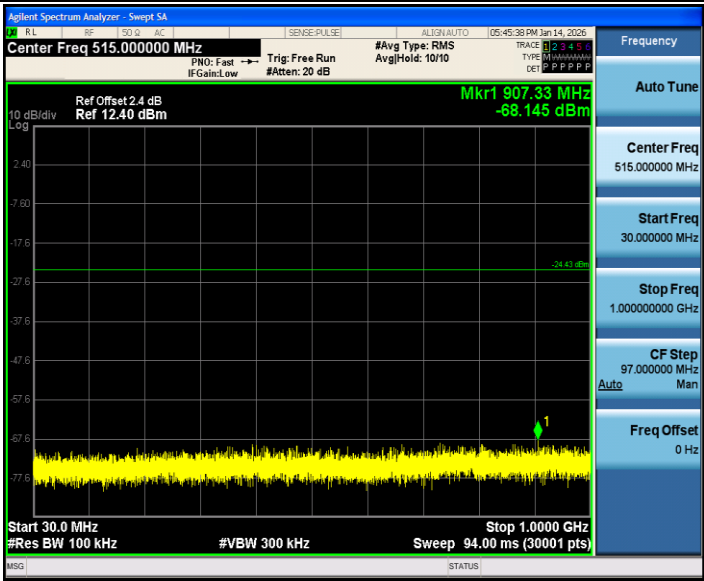
DH5_Ant1_2480_1000~26500



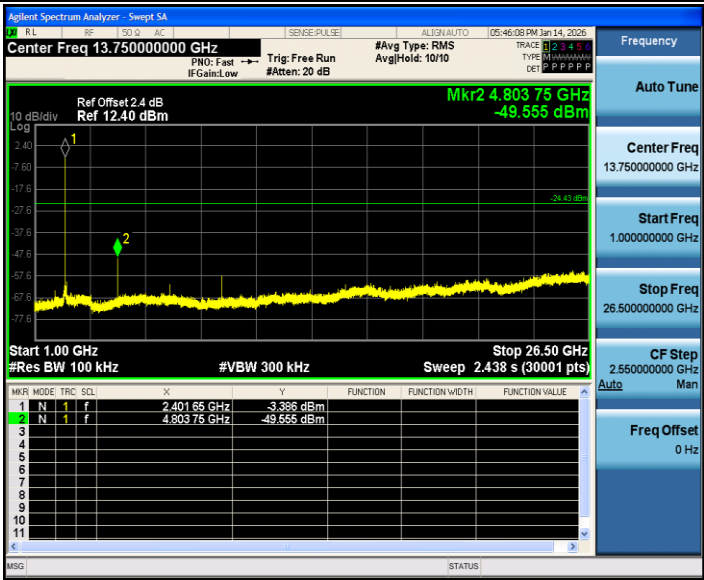
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference