

Appendix RF Test Data for BT

FCC ID : 2BA4J-NVMD-C200

Company : Pangao Photoelectric

EUT : Night Vision Multi-purpose Device

Model Number : NVMD-C200

Report No. : CTA25090400101

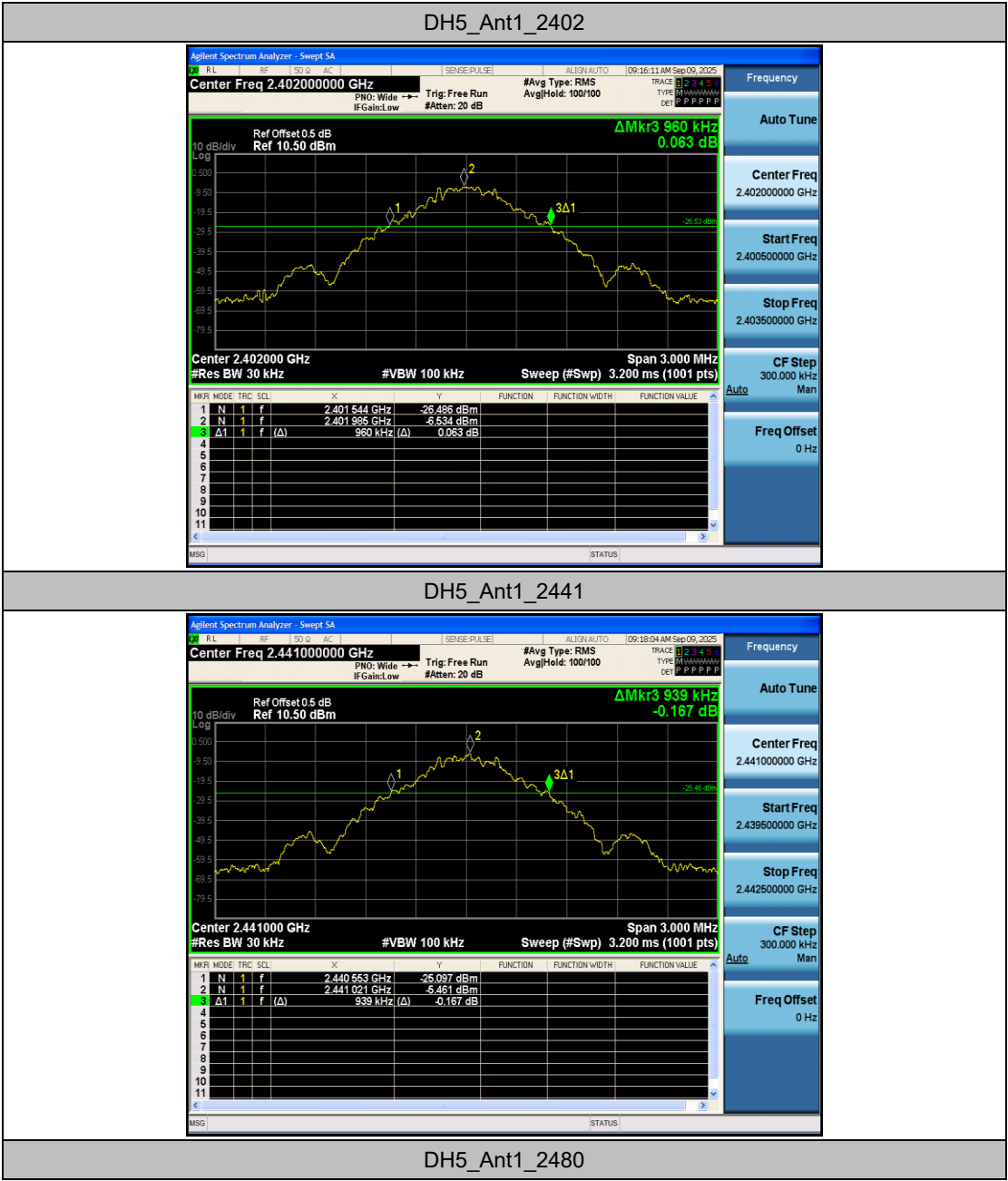
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.960	2401.544	2402.504	---	---
		2441	0.939	2440.553	2441.492	---	---
		2480	0.933	2479.553	2480.486	---	---
2DH5	Ant1	2402	1.278	2401.379	2402.657	---	---
		2441	1.281	2440.379	2441.660	---	---
		2480	1.281	2479.379	2480.660	---	---
3DH5	Ant1	2402	1.314	2401.355	2402.669	---	---
		2441	1.290	2440.367	2441.657	---	---
		2480	1.272	2479.382	2480.654	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



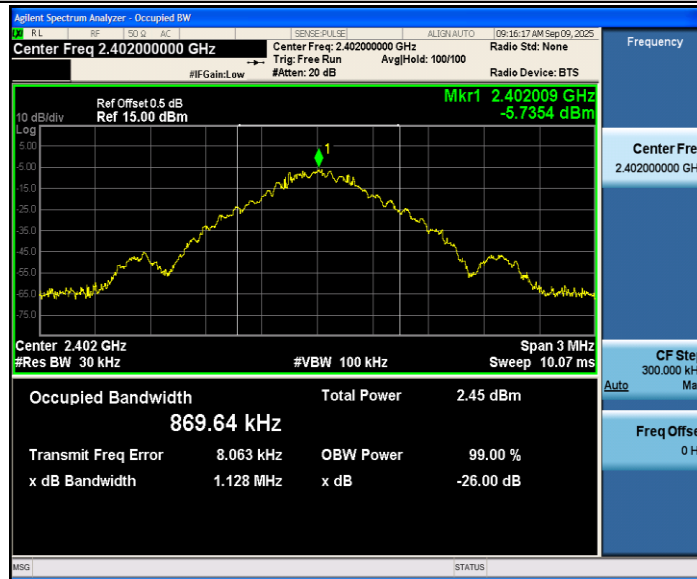
Appendix B: Occupied Channel Bandwidth

Test Result

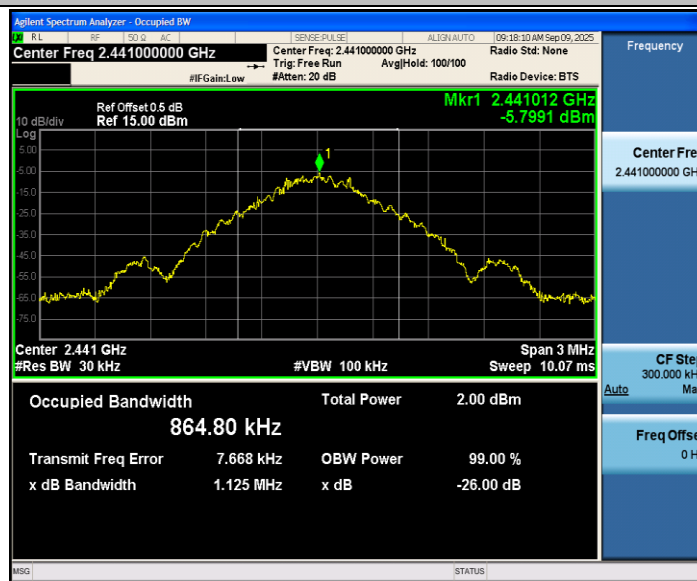
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86964	2401.5732	2402.4429	---	---
		2441	0.86480	2440.5753	2441.4401	---	---
		2480	0.86720	2479.5740	2480.4412	---	---
2DH5	Ant1	2402	1.1889	2401.4142	2402.6031	---	---
		2441	1.1835	2440.4172	2441.6007	---	---
		2480	1.1880	2479.4162	2480.6042	---	---
3DH5	Ant1	2402	1.1845	2401.4178	2402.6023	---	---
		2441	1.1865	2440.4178	2441.6043	---	---
		2480	1.1896	2479.4140	2480.6036	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



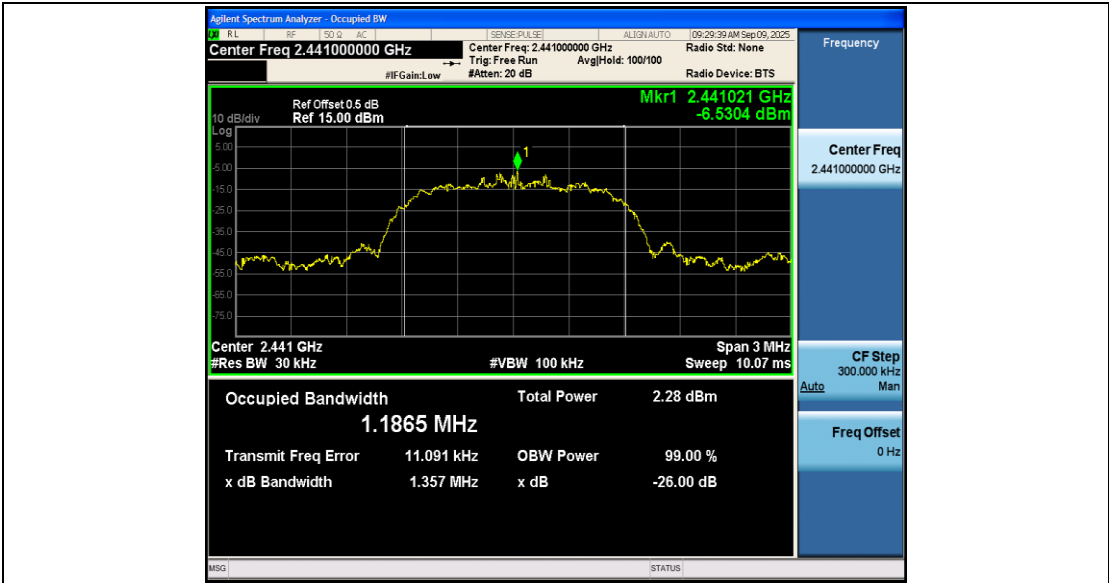
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

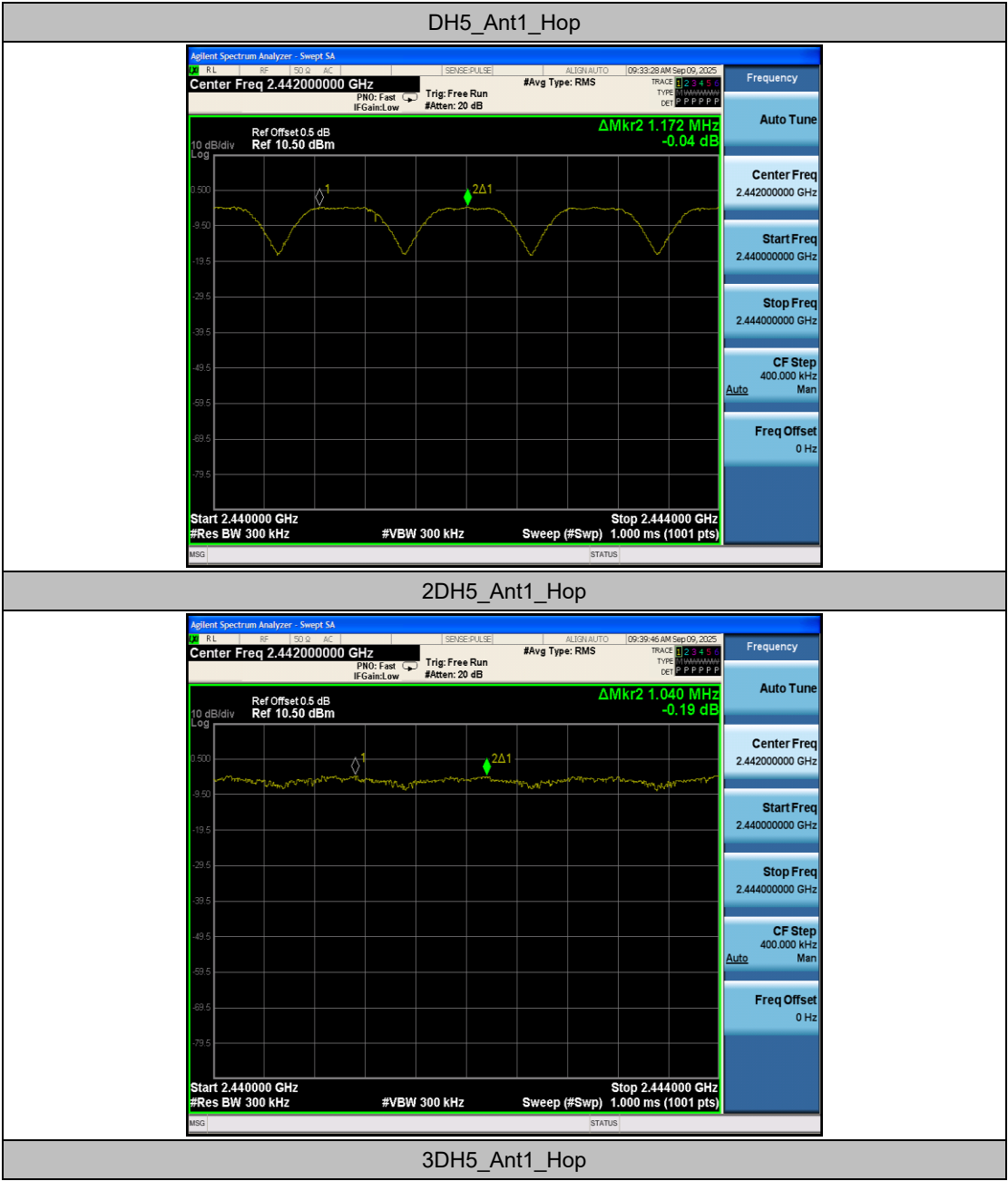
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.43	≤20.97	PASS
		2441	-3.85	≤20.97	PASS
		2480	-4.14	≤20.97	PASS
2DH5	Ant1	2402	-0.73	≤20.97	PASS
		2441	-1.25	≤20.97	PASS
		2480	-1.51	≤20.97	PASS
3DH5	Ant1	2402	-0.35	≤20.97	PASS
		2441	-0.89	≤20.97	PASS
		2480	-1.09	≤20.97	PASS

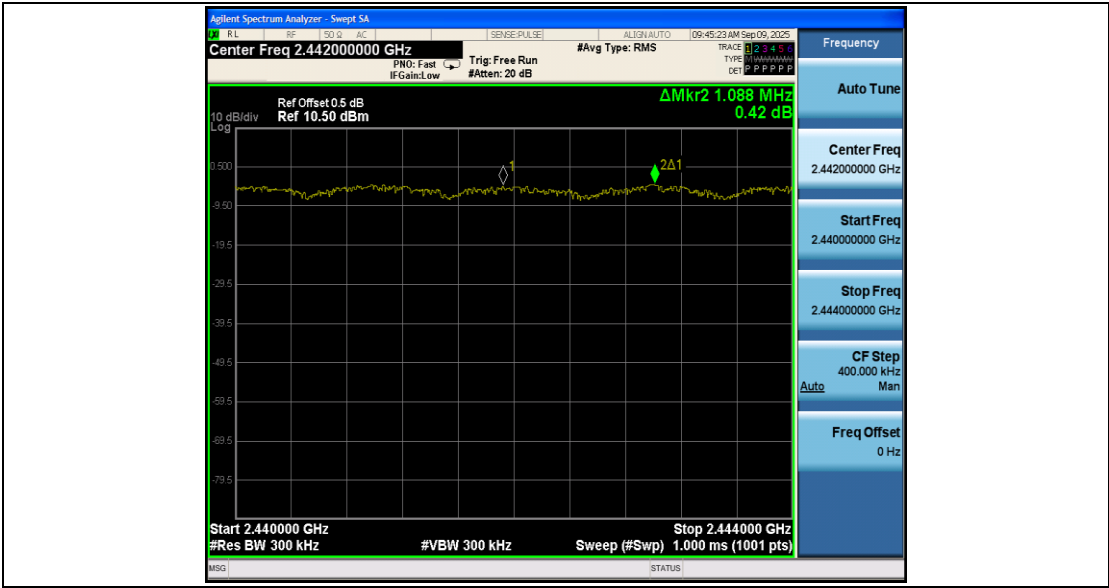
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.172	≥ 0.960	PASS
2DH5	Ant1	Hop	1.04	≥ 0.854	PASS
3DH5	Ant1	Hop	1.088	≥ 0.876	PASS

Test Graphs



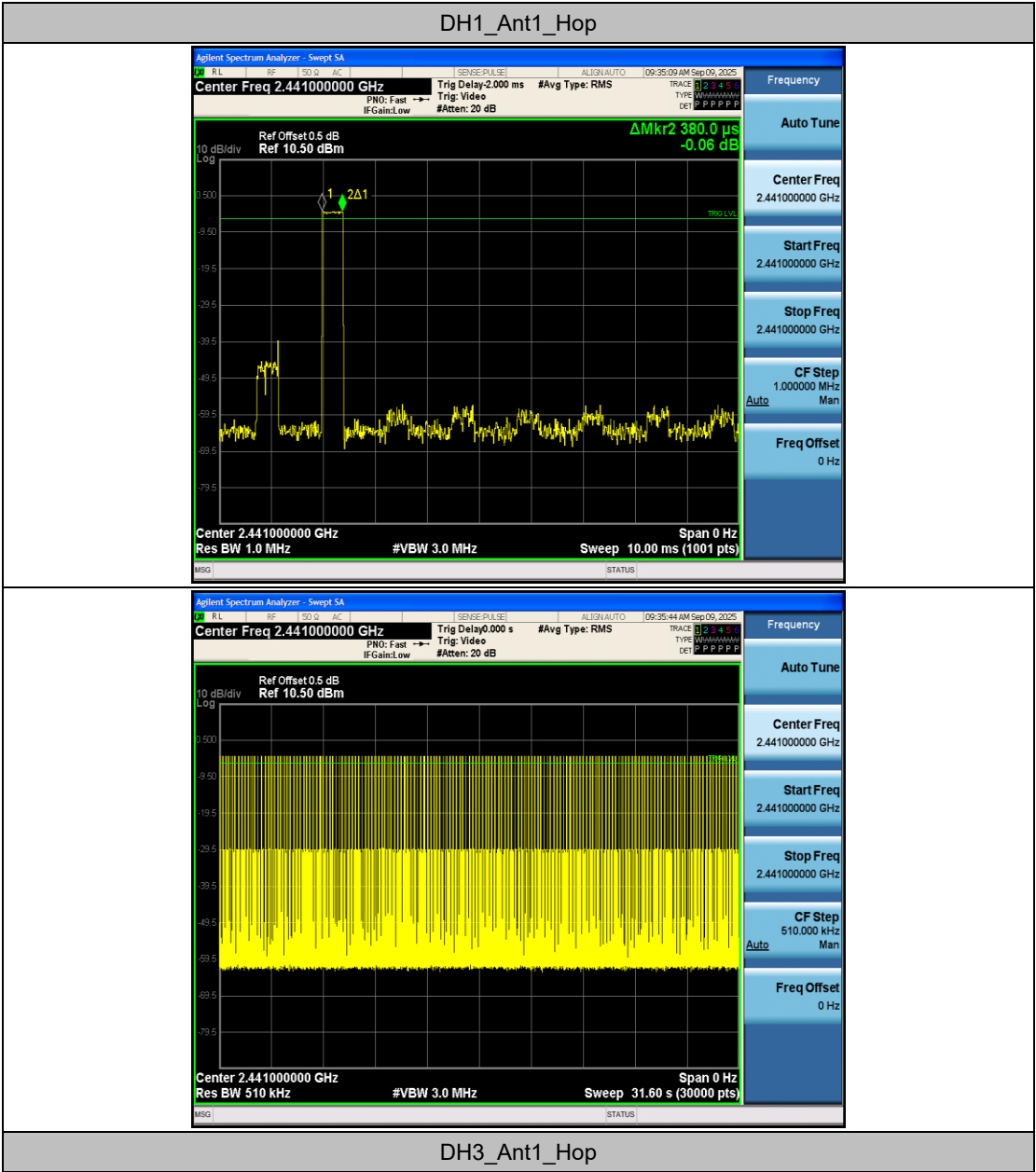


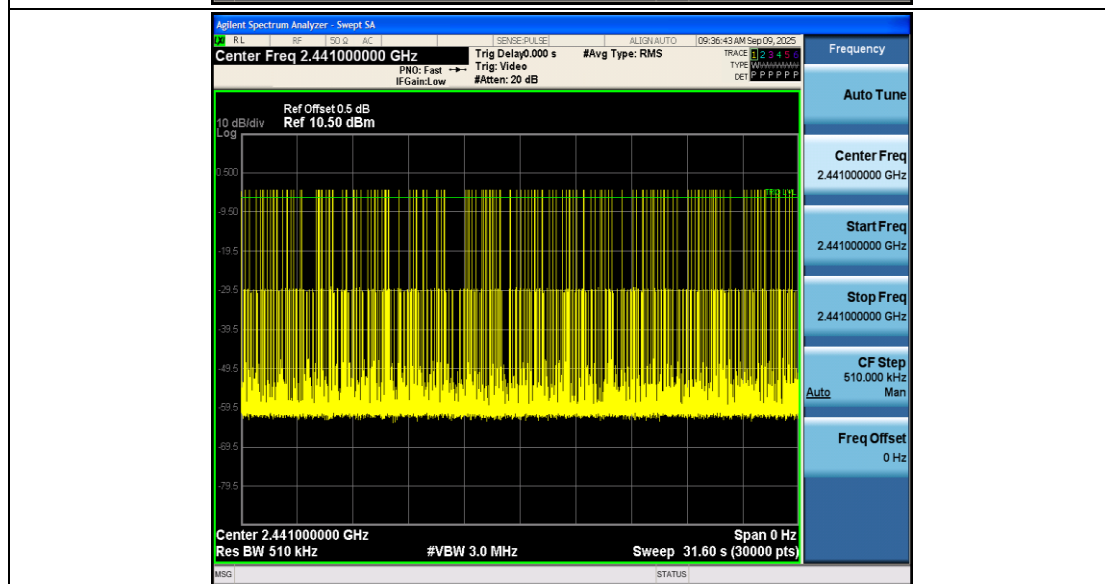
Appendix E: Time of occupancy

Test Result

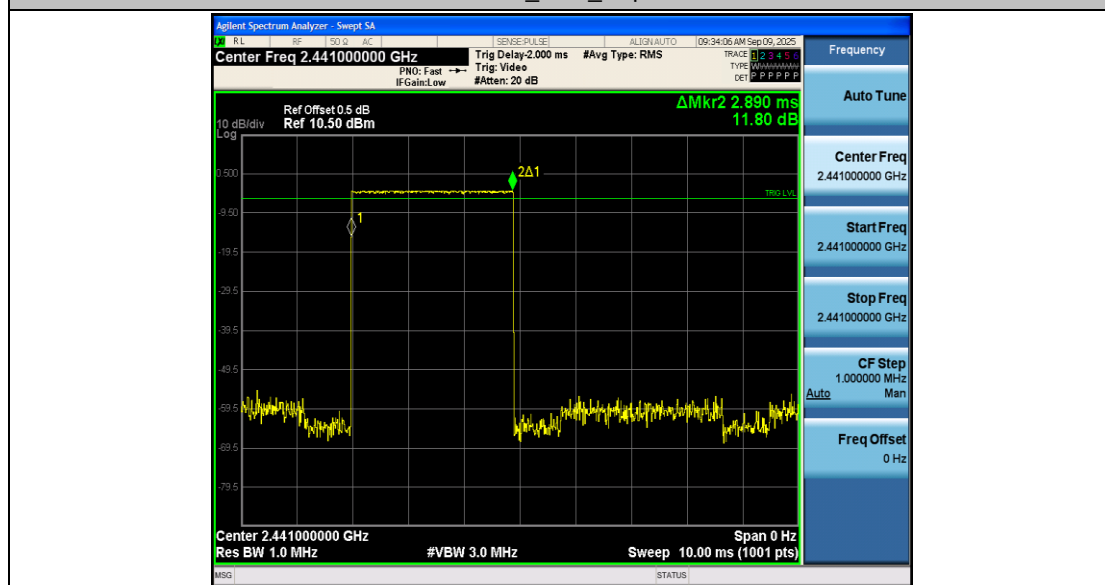
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.380	318	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.650	155	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.890	98	0.283	≤0.4	PASS
2DH1	Ant1	Hop	0.400	317	0.127	≤0.4	PASS
2DH3	Ant1	Hop	1.650	155	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.900	112	0.325	≤0.4	PASS
3DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.650	165	0.272	≤0.4	PASS
3DH5	Ant1	Hop	2.900	97	0.281	≤0.4	PASS

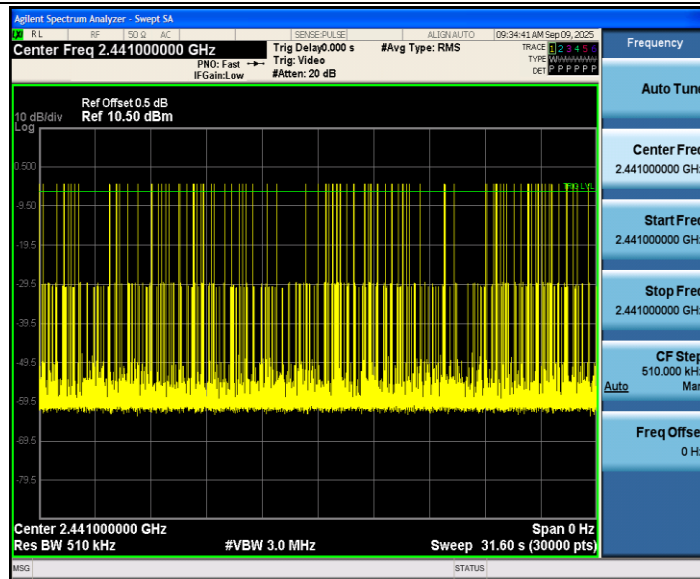
Test Graphs



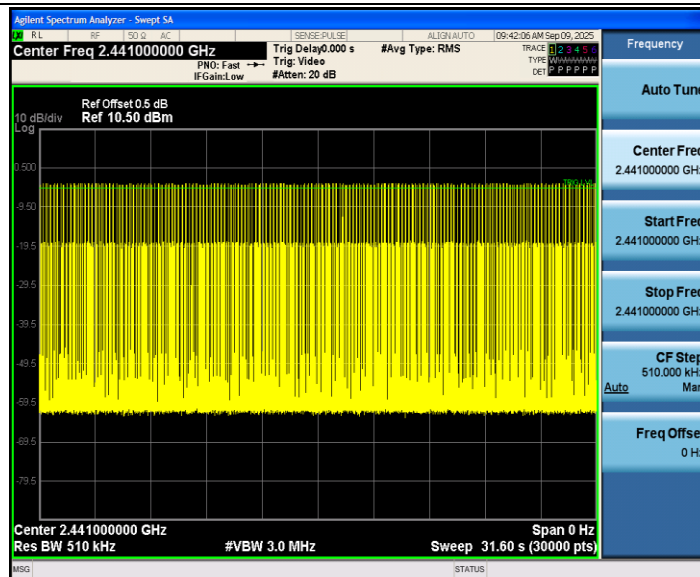
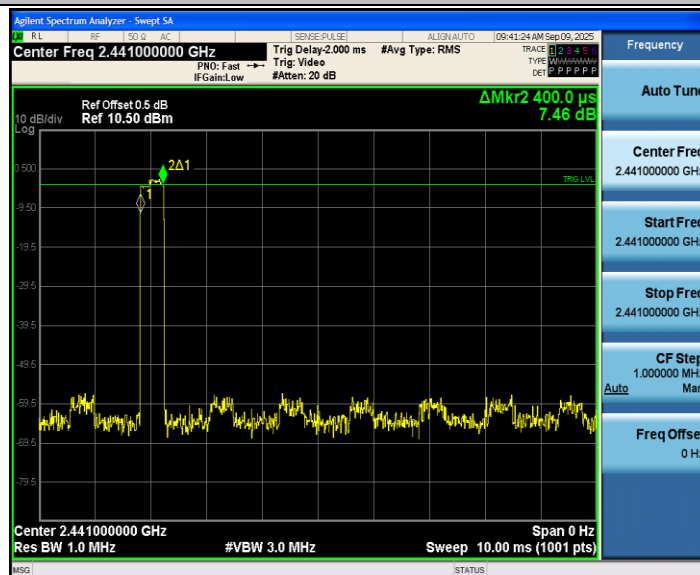


DH5_Ant1_Hop

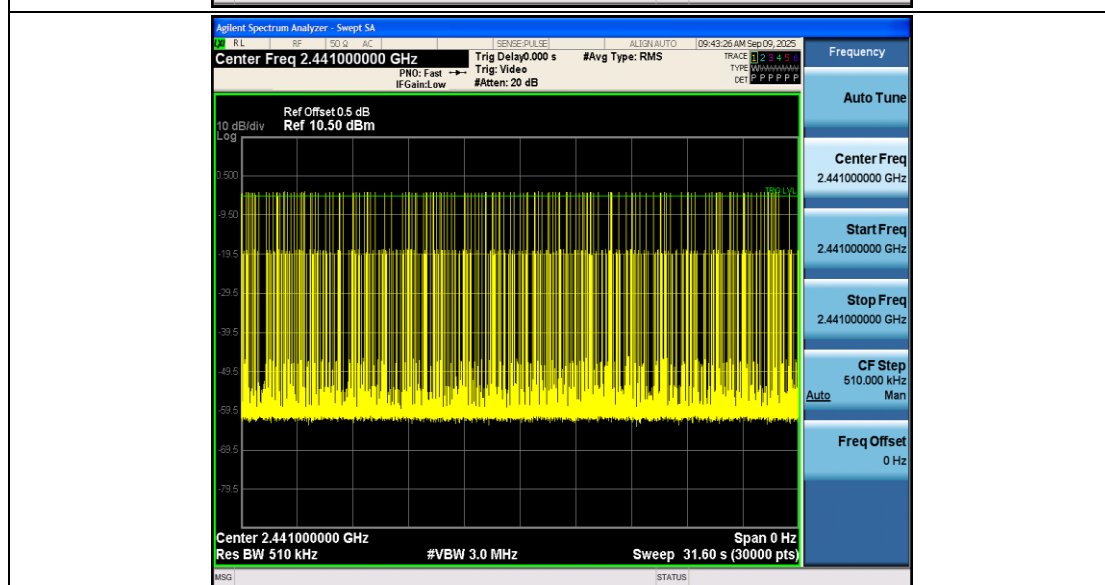




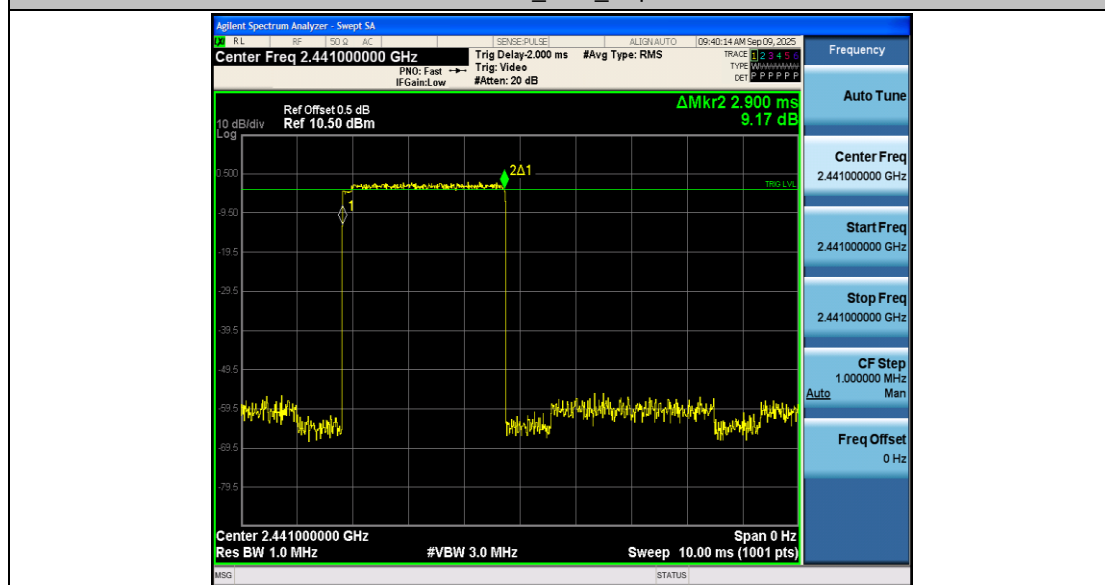
2DH1_Ant1_Hop

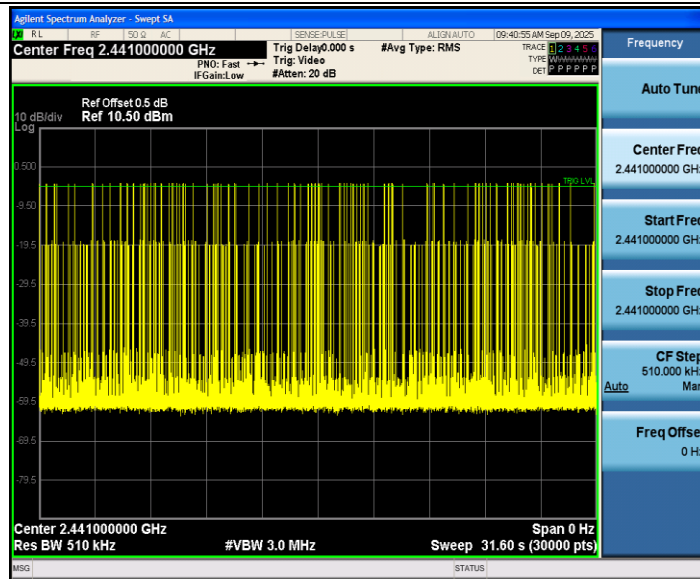


2DH3_Ant1_Hop

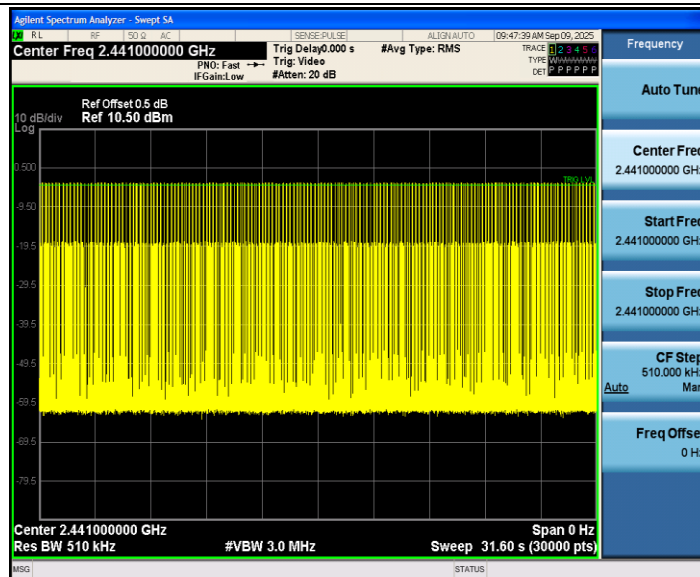
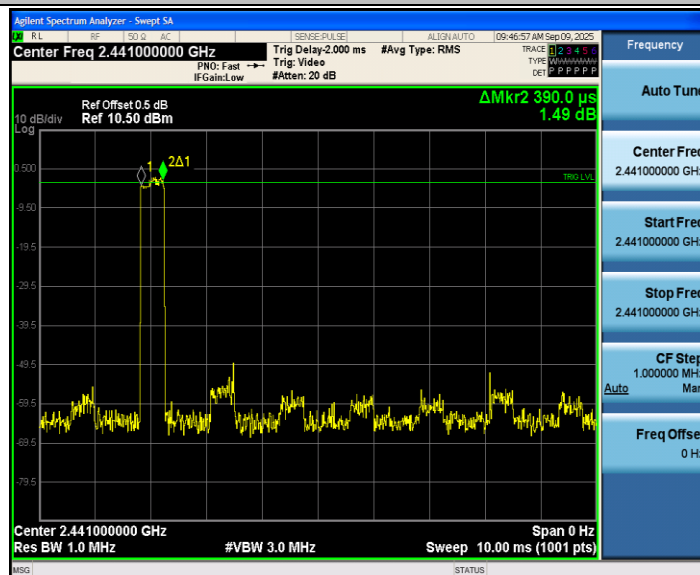


2DH5_Ant1_Hop

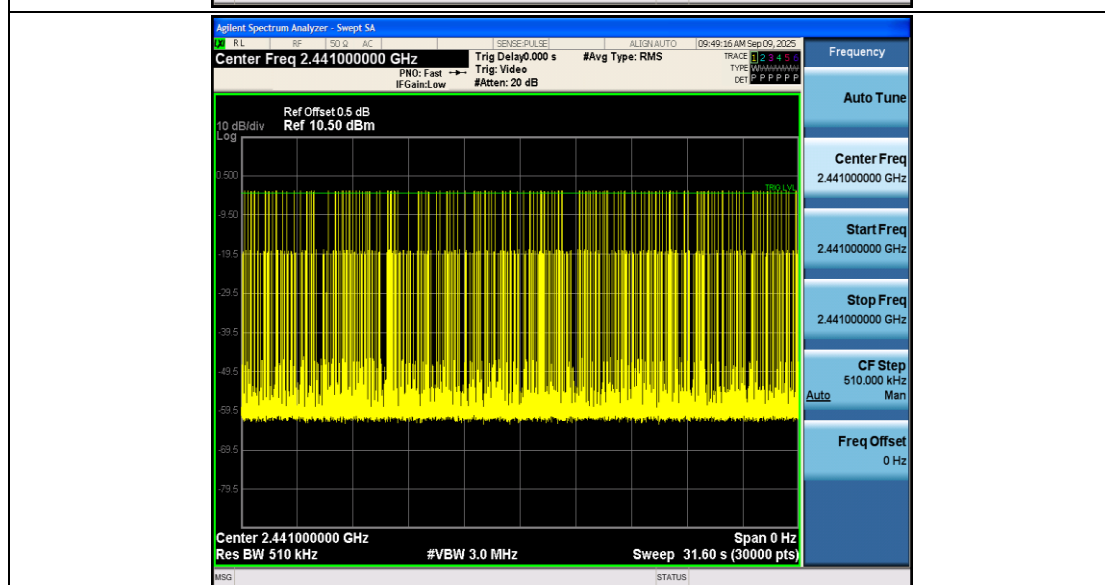




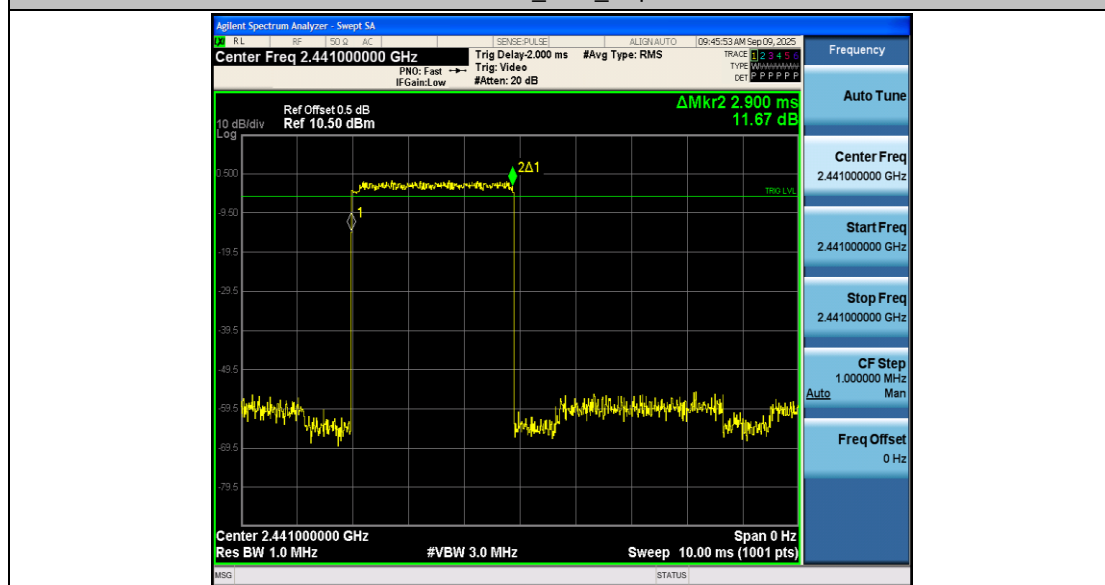
3DH1_Ant1_Hop

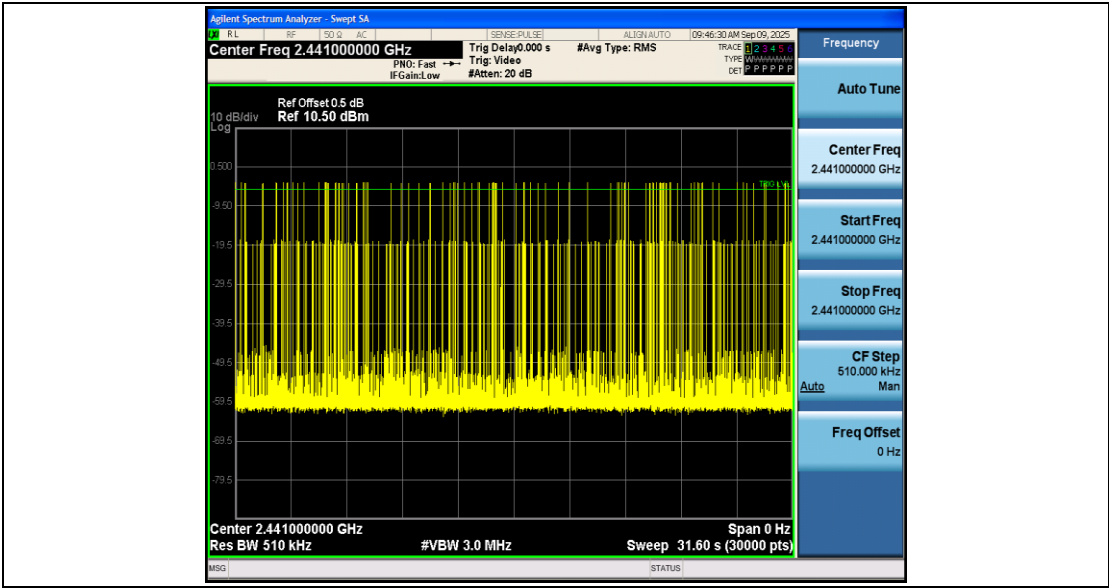


3DH3_Ant1_Hop



3DH5_Ant1_Hop





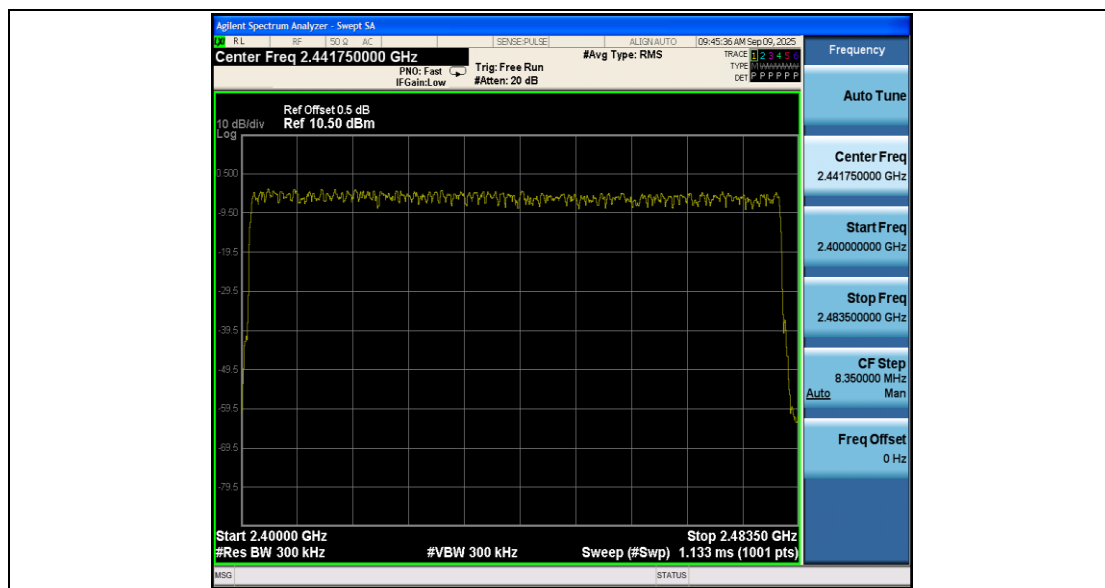
Appendix F: Number of hopping channels

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



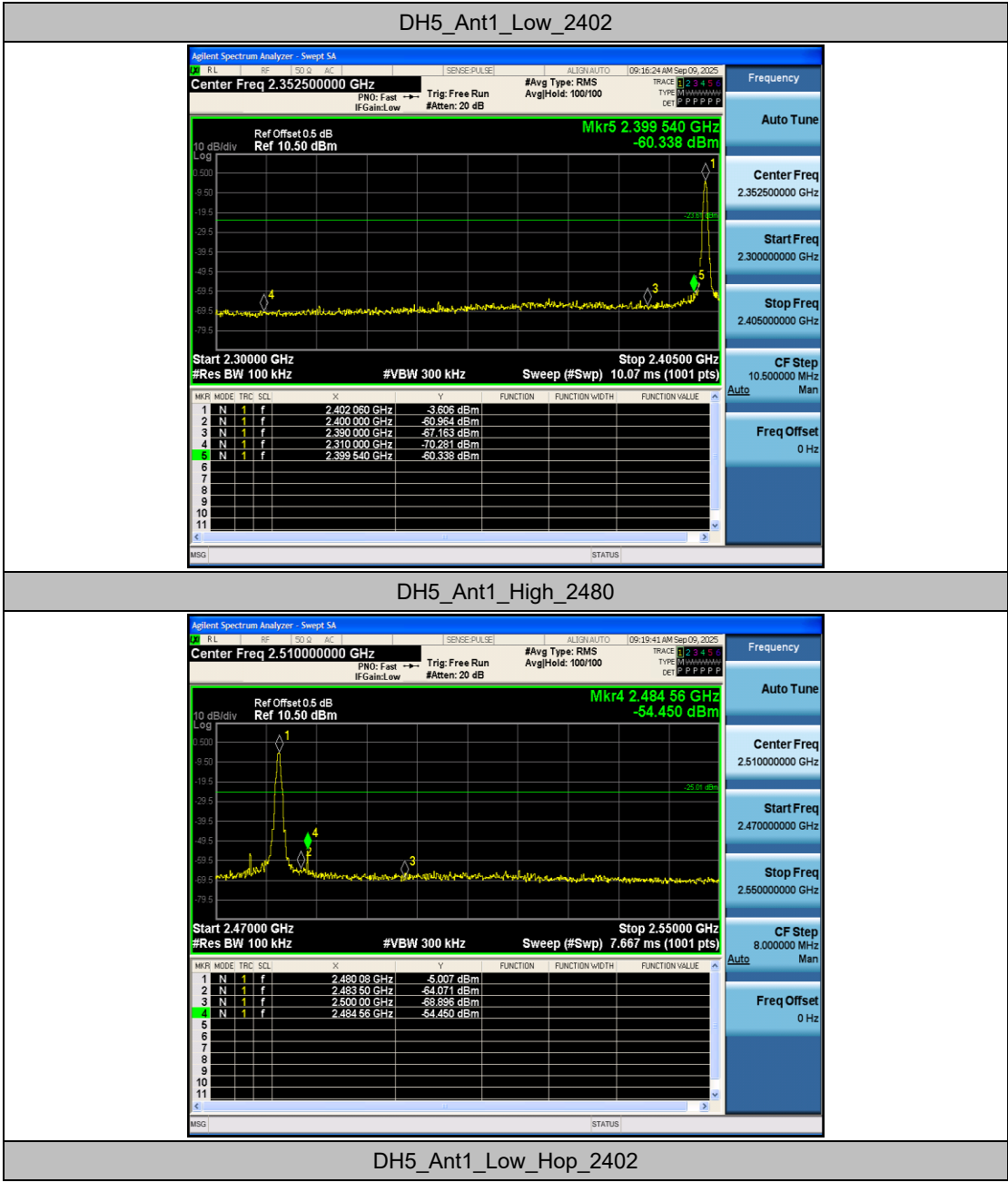


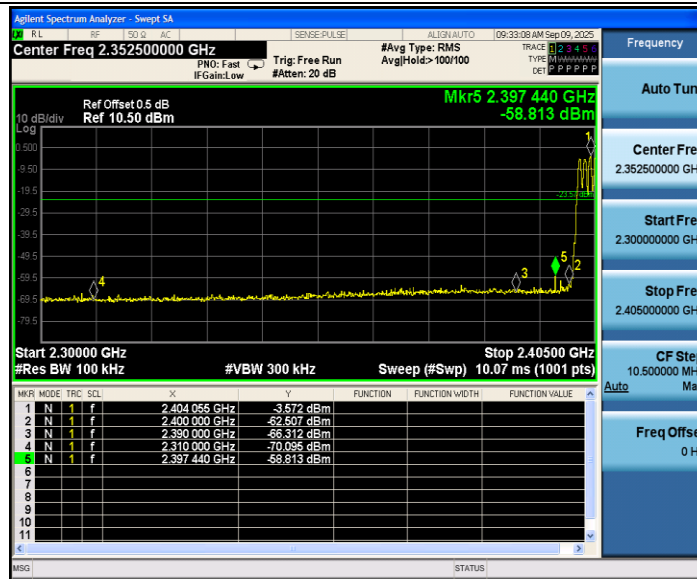
Appendix G: Band edge measurements

Test Result

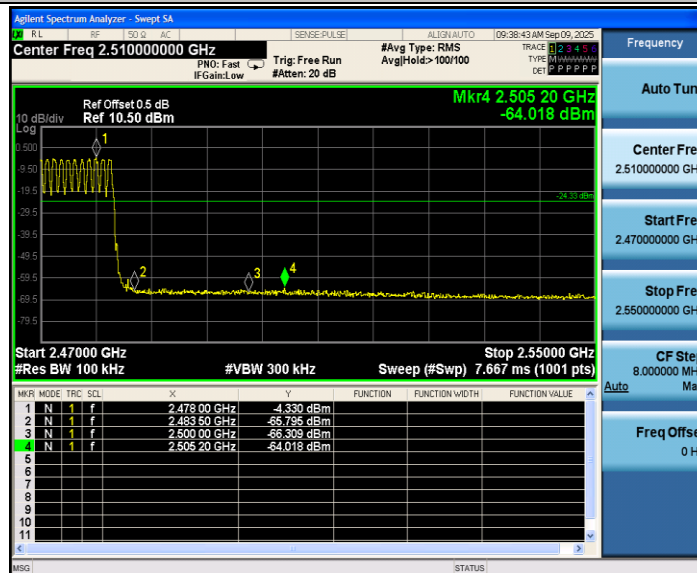
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.61	-60.34	≤-23.61	PASS
		High	2480	-5.01	-54.45	≤-25.01	PASS
		Low	Hop_2402	-3.57	-58.81	≤-23.57	PASS
		High	Hop_2480	-4.33	-64.02	≤-24.33	PASS
2DH5	Ant1	Low	2402	-3.41	-61.31	≤-23.41	PASS
		High	2480	-5.16	-63.03	≤-25.16	PASS
		Low	Hop_2402	-4.82	-60.55	≤-24.82	PASS
		High	Hop_2480	-4.12	-64.21	≤-24.12	PASS
3DH5	Ant1	Low	2402	-4.01	-61.7	≤-24.01	PASS
		High	2480	-6.46	-64.5	≤-26.46	PASS
		Low	Hop_2402	-5.26	-63	≤-25.26	PASS
		High	Hop_2480	-3.99	-64.21	≤-23.99	PASS

Test Graphs

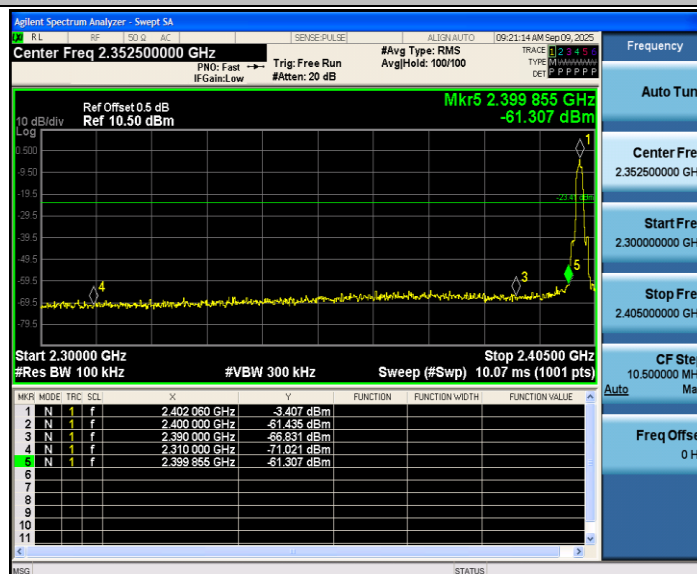




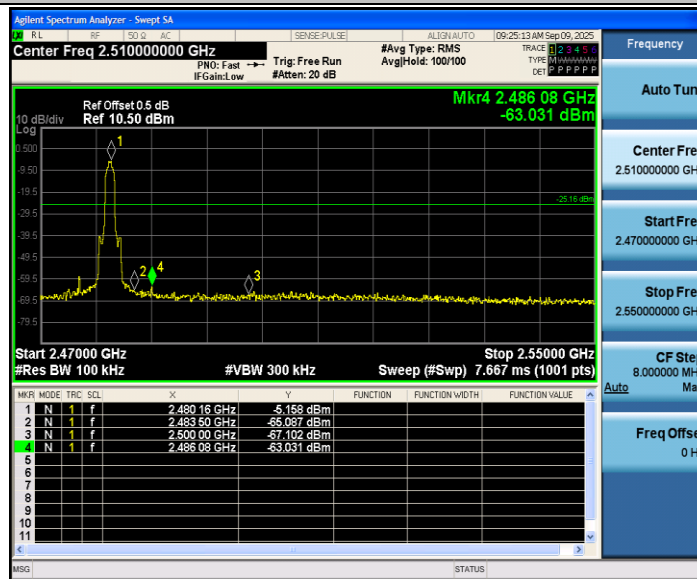
DH5_Ant1_High_Hop_2480



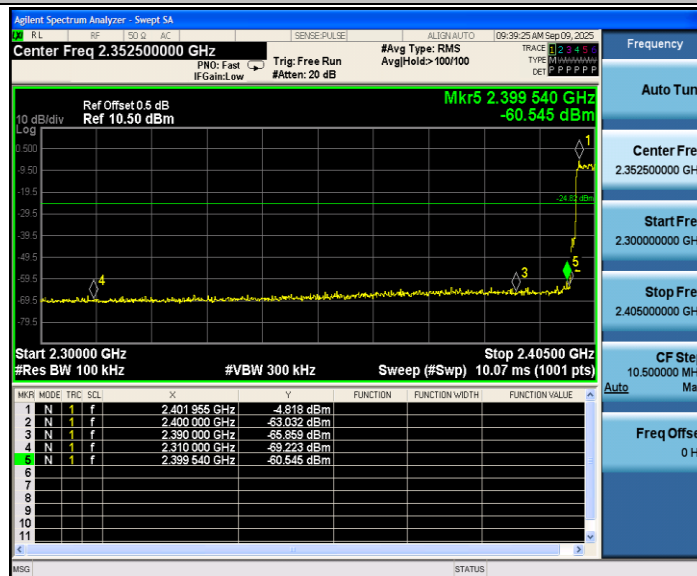
2DH5_Ant1_Low_2402



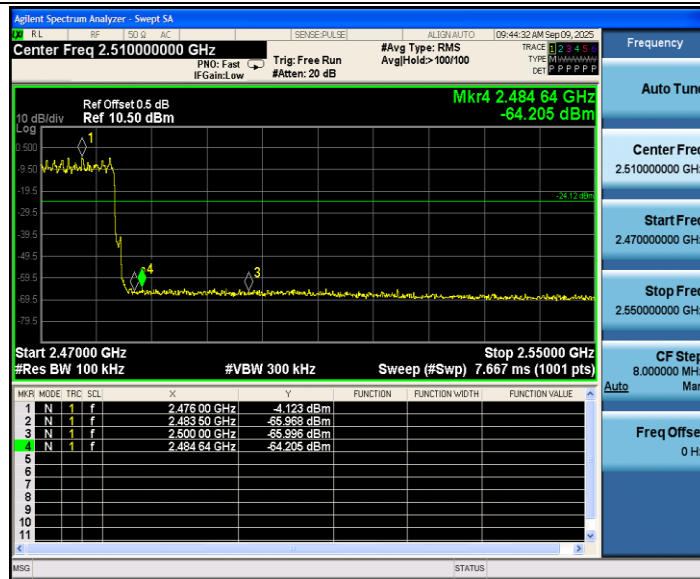
2DH5_Ant1_High_2480



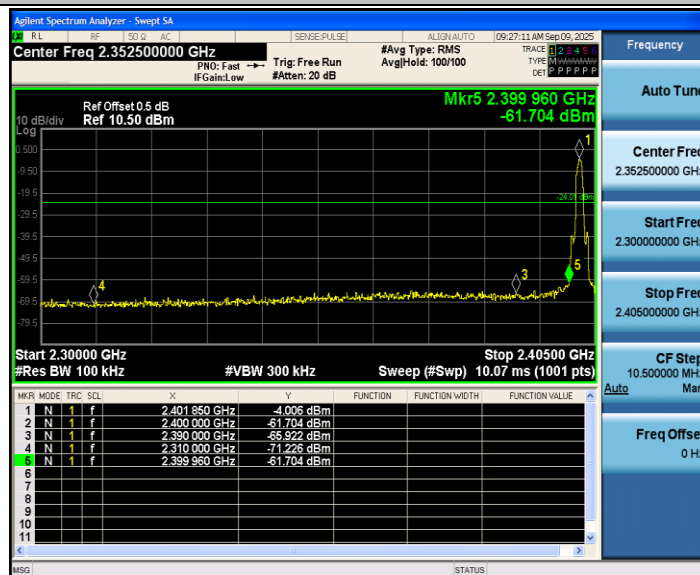
2DH5_Ant1_Low_Hop_2402



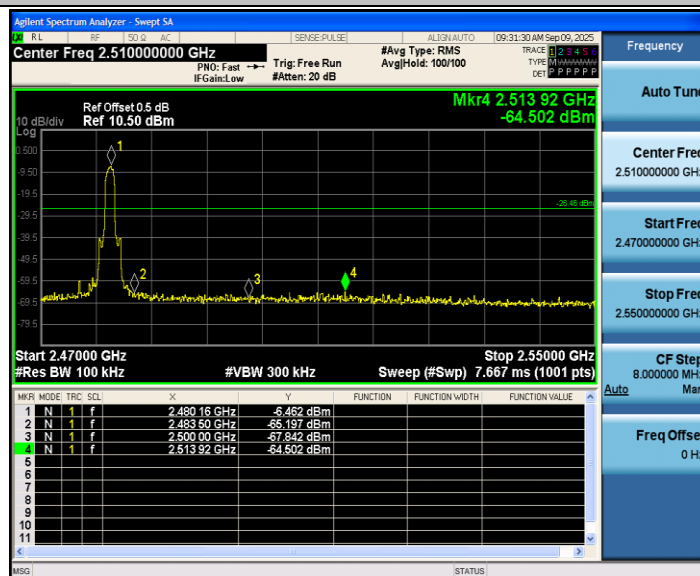
2DH5_Ant1_High_Hop_2480



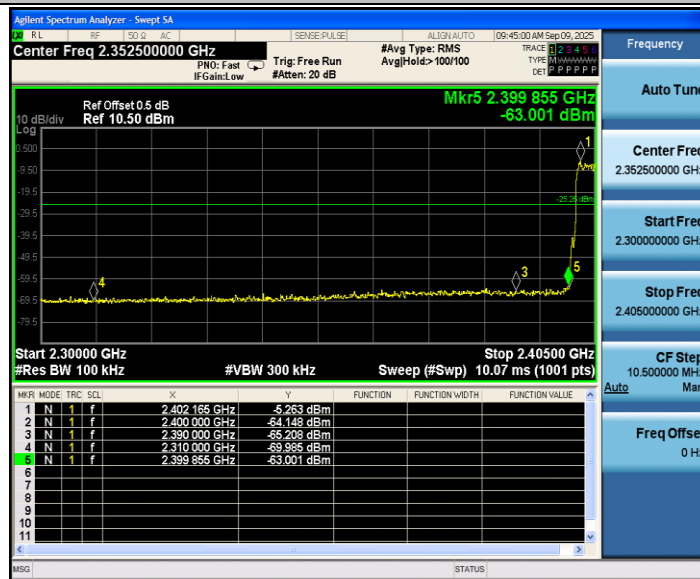
3DH5_Ant1_Low_2402



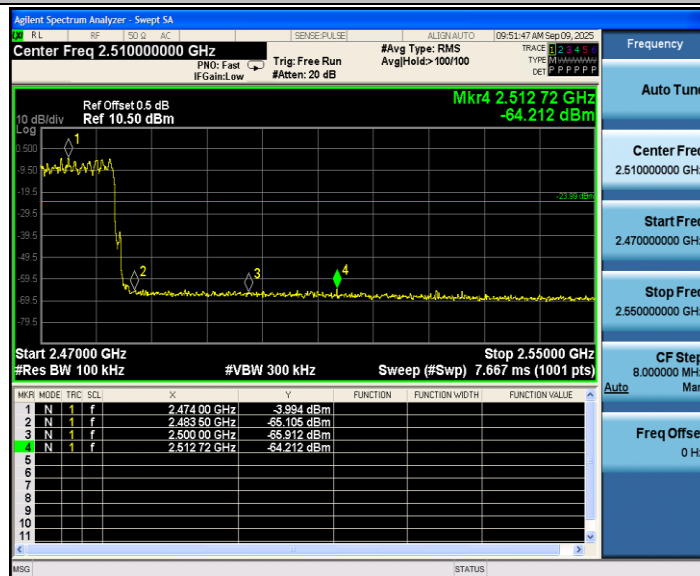
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

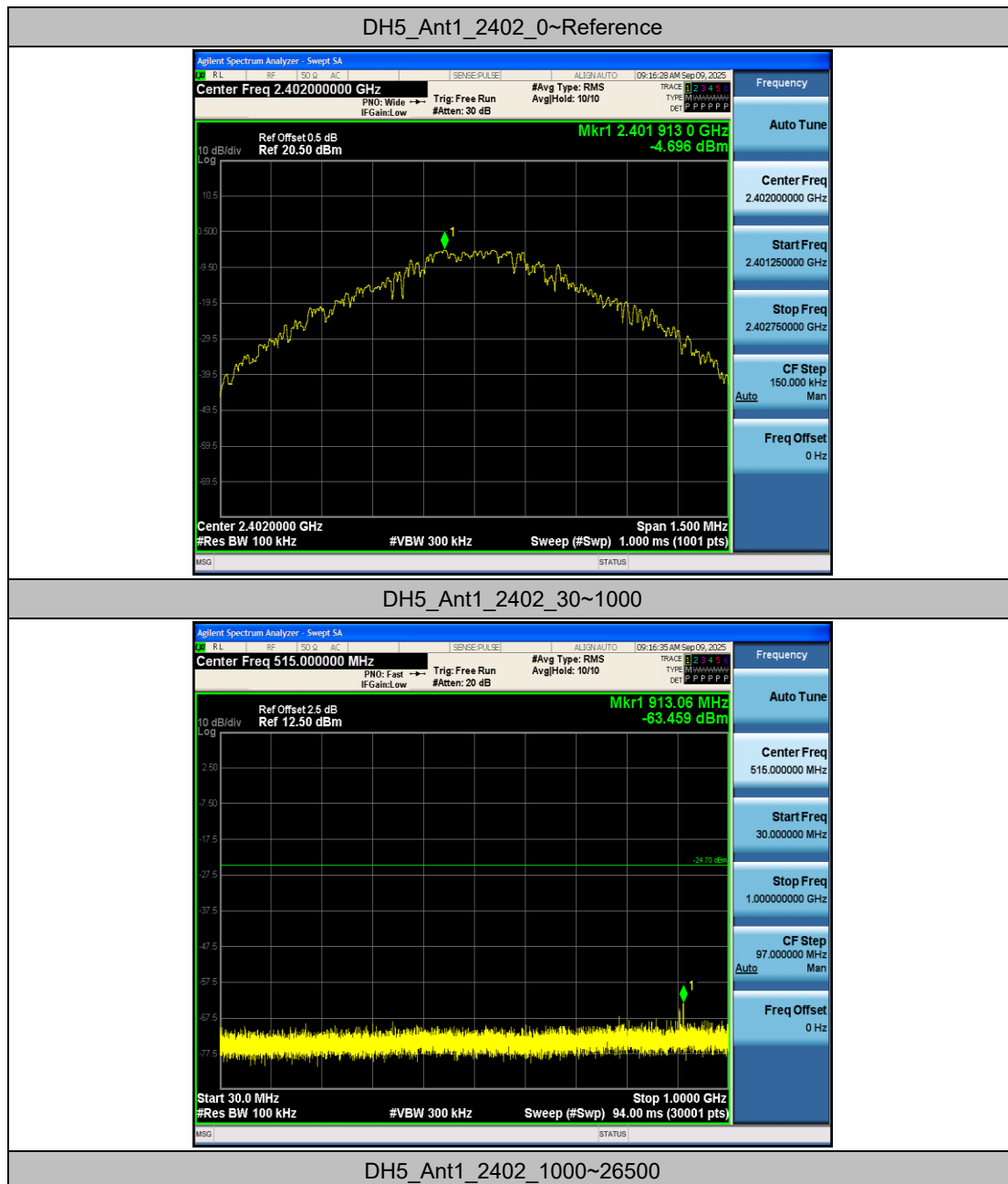


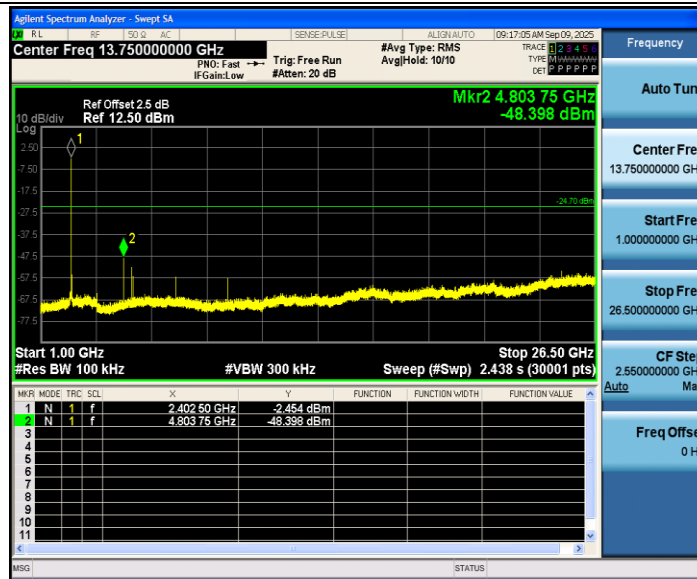
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.70	-4.70	---	PASS
			30~1000	-4.70	-63.46	≤-24.7	PASS
			1000~26500	-4.70	-48.4	≤-24.7	PASS
		2441	Reference	-4.70	-4.70	---	PASS
			30~1000	-4.70	-62.59	≤-24.7	PASS
			1000~26500	-4.70	-48.63	≤-24.7	PASS
		2480	Reference	-5.39	-5.39	---	PASS
			30~1000	-5.39	-67.53	≤-25.39	PASS
			1000~26500	-5.39	-48.78	≤-25.39	PASS
2DH5	Ant1	2402	Reference	-3.96	-3.96	---	PASS
			30~1000	-3.96	-67.44	≤-23.96	PASS
			1000~26500	-3.96	-47.83	≤-23.96	PASS
		2441	Reference	-6.51	-6.51	---	PASS
			30~1000	-6.51	-64.36	≤-26.51	PASS
			1000~26500	-6.51	-49.51	≤-26.51	PASS
		2480	Reference	-6.64	-6.64	---	PASS
			30~1000	-6.64	-67.99	≤-26.64	PASS
			1000~26500	-6.64	-49.93	≤-26.64	PASS
3DH5	Ant1	2402	Reference	-4.92	-4.92	---	PASS
			30~1000	-4.92	-67.02	≤-24.92	PASS
			1000~26500	-4.92	-49.3	≤-24.92	PASS
		2441	Reference	-4.49	-4.49	---	PASS
			30~1000	-4.49	-67.81	≤-24.49	PASS
			1000~26500	-4.49	-50.04	≤-24.49	PASS
		2480	Reference	-6.75	-6.75	---	PASS
			30~1000	-6.75	-67.58	≤-26.75	PASS
			1000~26500	-6.75	-49.63	≤-26.75	PASS

Test Graphs





DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

