

FCC Appendix RF Test Data for BT

FCC ID : 2BGCX-V10X10A7

Company : Shenzhen Yufengzhixing Electronics Tech Co Ltd

EUT : Car Navigation Multimedia

Model Number : A7G2D7PKL

Report No. : CTA25112601801

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	0.951	2401.550	2402.501	---	---
		2441	0.945	2440.553	2441.498	---	---
		2480	0.957	2479.547	2480.504	---	---
2DH5	Ant1	2402	1.317	2401.352	2402.669	---	---
		2441	1.323	2440.346	2441.669	---	---
		2480	1.284	2479.379	2480.663	---	---
3DH5	Ant1	2402	1.332	2401.340	2402.672	---	---
		2441	1.308	2440.358	2441.666	---	---
		2480	1.317	2479.352	2480.669	---	---

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

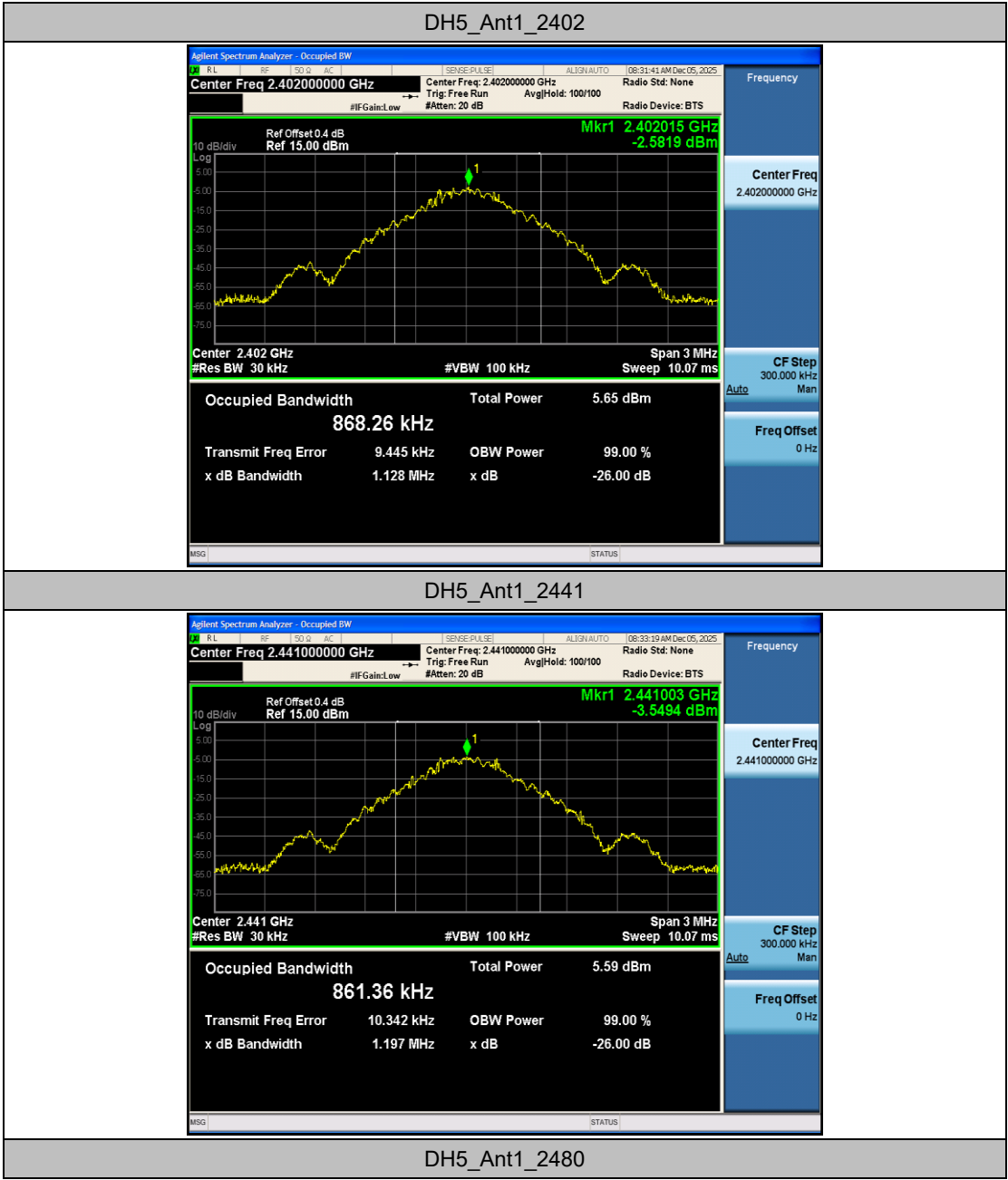


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86826	2401.5753	2402.4436	---	---
		2441	0.86136	2440.5797	2441.4410	---	---
		2480	0.87884	2479.5722	2480.4510	---	---
2DH5	Ant1	2402	1.1954	2401.4146	2402.6100	---	---
		2441	1.1861	2440.4179	2441.6040	---	---
		2480	1.1886	2479.4175	2480.6061	---	---
3DH5	Ant1	2402	1.1916	2401.4146	2402.6062	---	---
		2441	1.1881	2440.4166	2441.6047	---	---
		2480	1.1868	2479.4170	2480.6038	---	---

Test Graphs

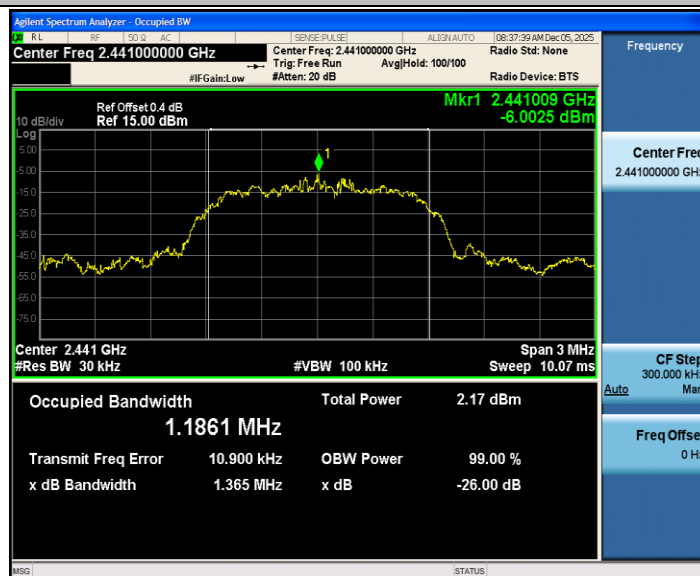




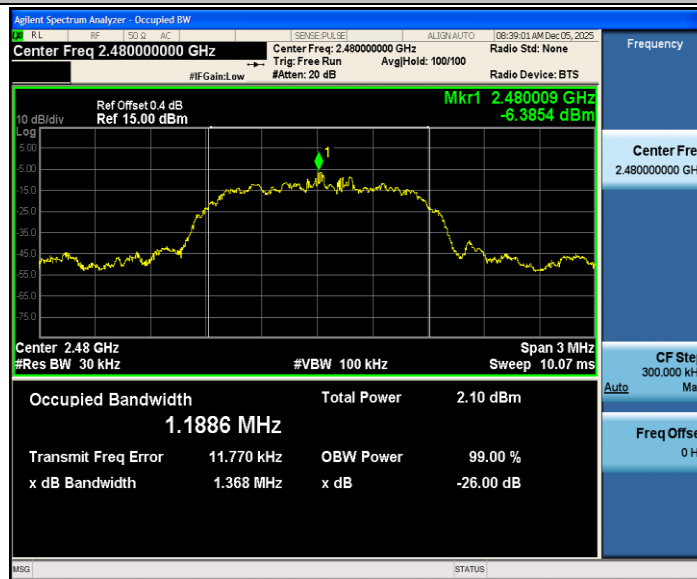
2DH5_Ant1_2402



2DH5_Ant1_2441



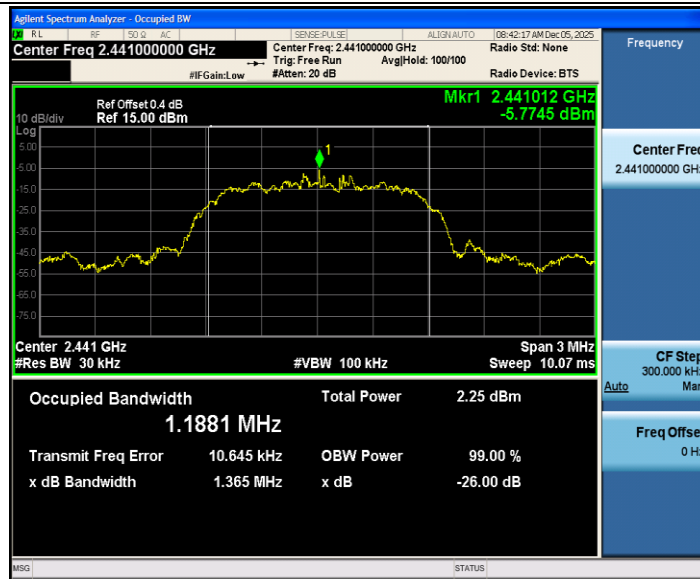
2DH5_Ant1_2480



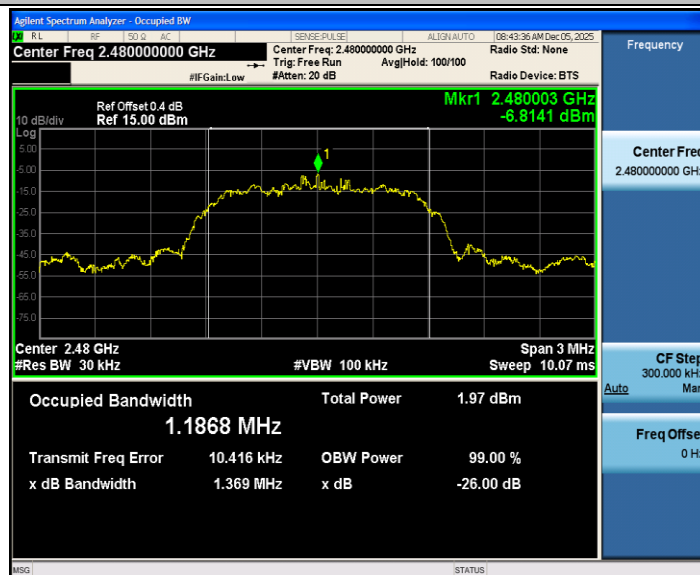
3DH5_Ant1_2402



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	-0.26	≤20.97	PASS
		2441	-0.40	≤20.97	PASS
		2480	-0.49	≤20.97	PASS
2DH5	Ant1	2402	-1.08	≤20.97	PASS
		2441	-1.23	≤20.97	PASS
		2480	-1.35	≤20.97	PASS
3DH5	Ant1	2402	-0.97	≤20.97	PASS
		2441	-1.25	≤20.97	PASS
		2480	-1.39	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.048	≥ 0.957	PASS
2DH5	Ant1	Hop	1.248	≥ 0.882	PASS
3DH5	Ant1	Hop	1.32	≥ 0.888	PASS

Test Graphs



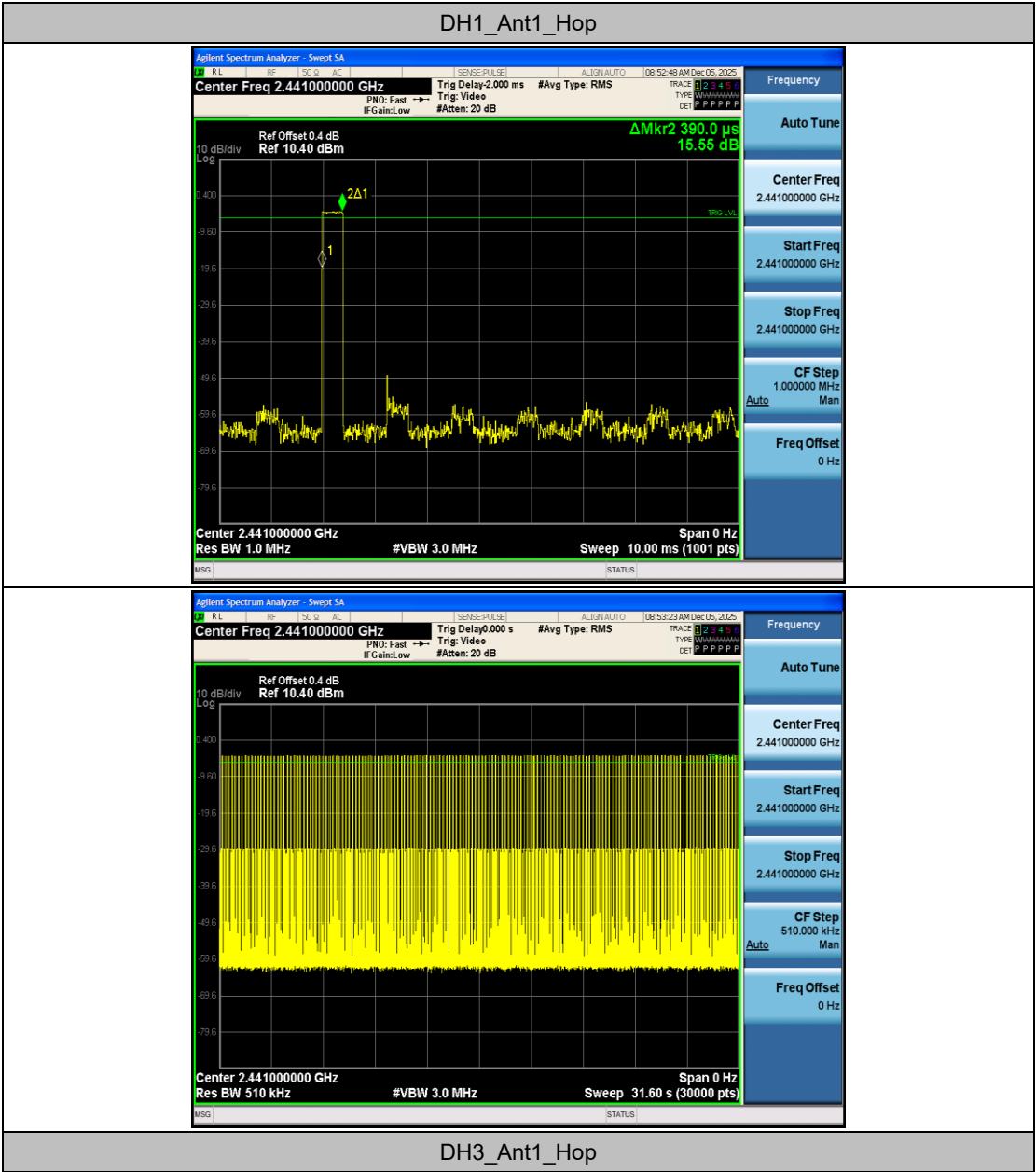


Appendix E: Time of occupancy

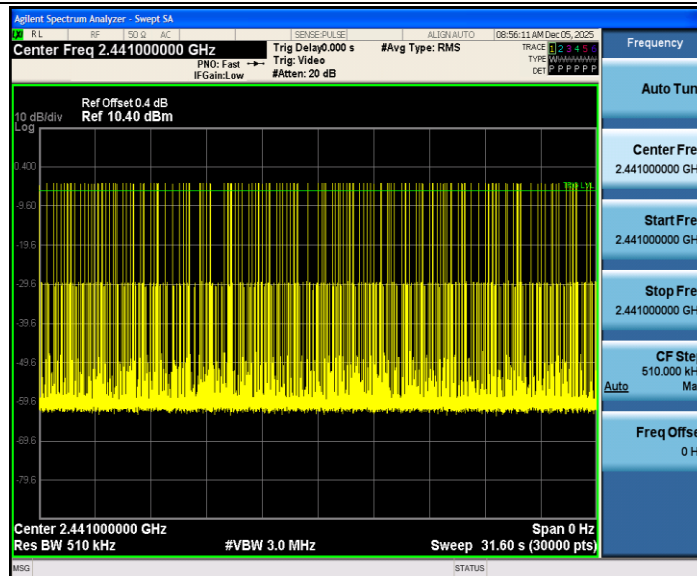
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.650	158	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.890	105	0.303	≤0.4	PASS
2DH1	Ant1	Hop	0.380	319	0.121	≤0.4	PASS
2DH3	Ant1	Hop	1.640	161	0.264	≤0.4	PASS
2DH5	Ant1	Hop	2.900	115	0.334	≤0.4	PASS
3DH1	Ant1	Hop	0.390	317	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.650	162	0.267	≤0.4	PASS
3DH5	Ant1	Hop	2.900	117	0.339	≤0.4	PASS

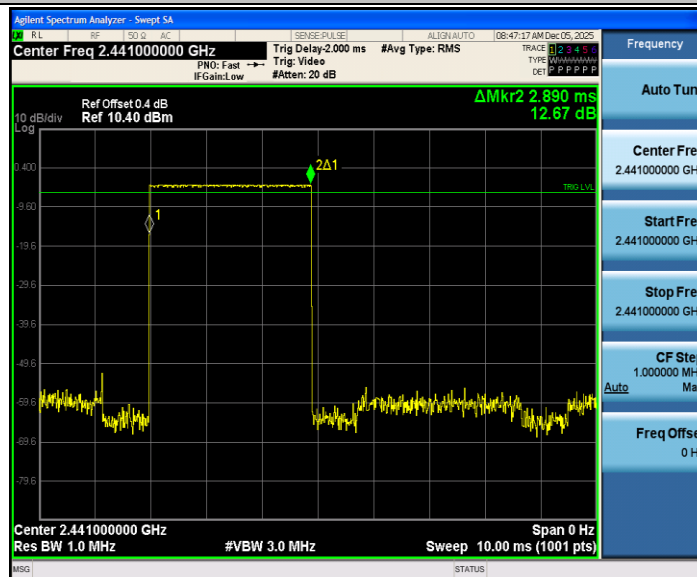
Test Graphs

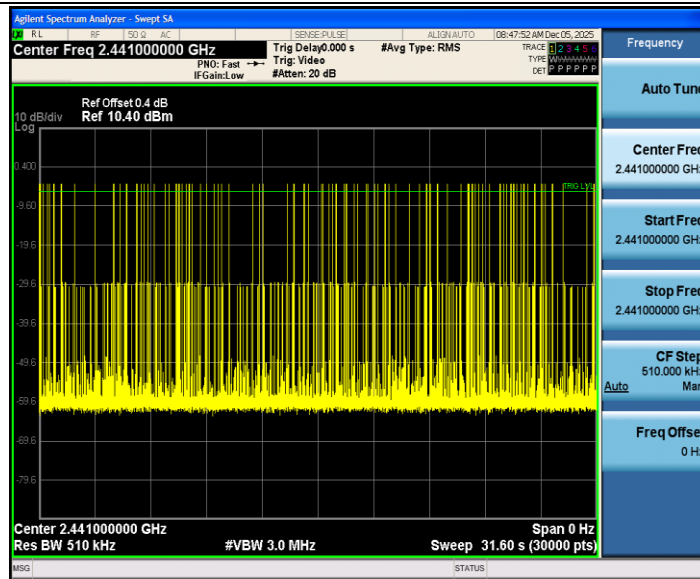


DH3_Ant1_Hop

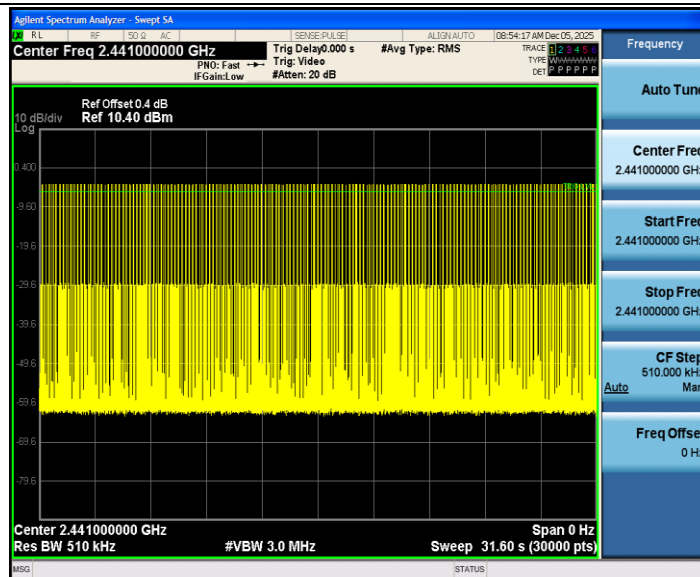
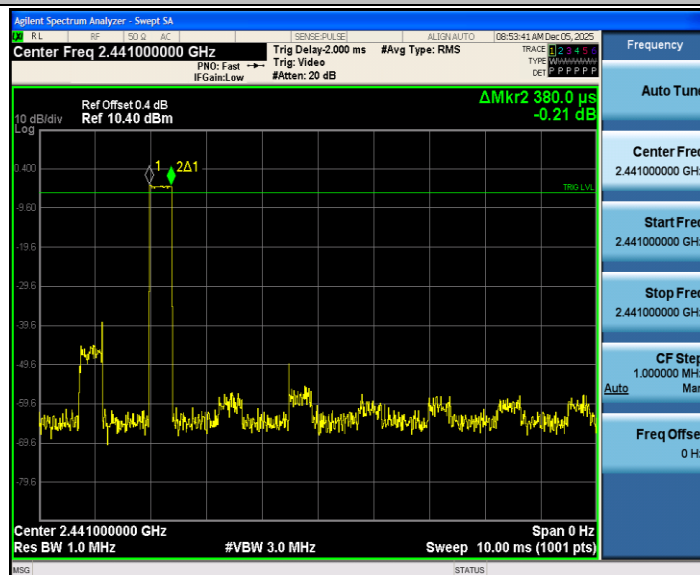


DH5_Ant1_Hop

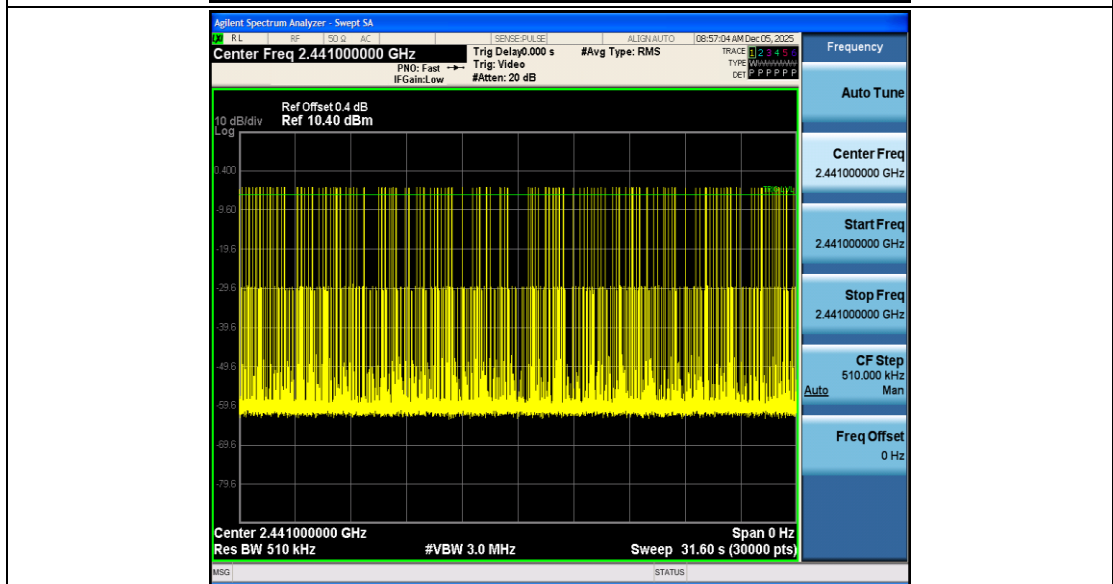
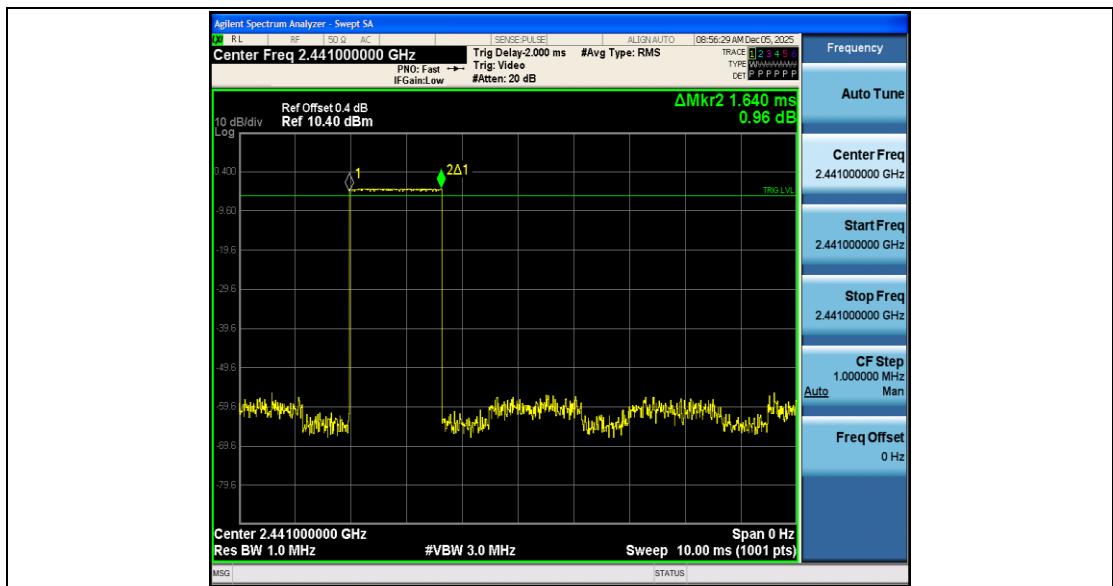




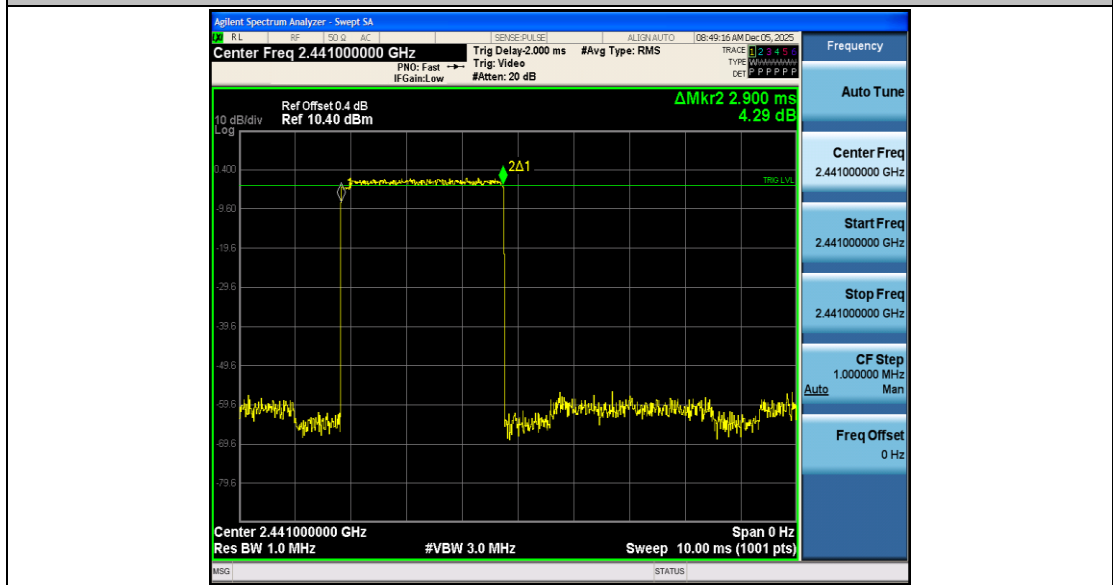
2DH1_Ant1_Hop

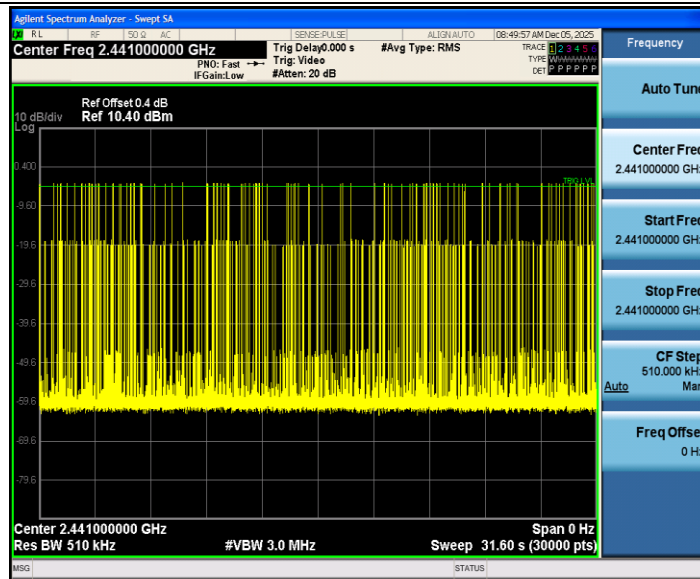


2DH3_Ant1_Hop

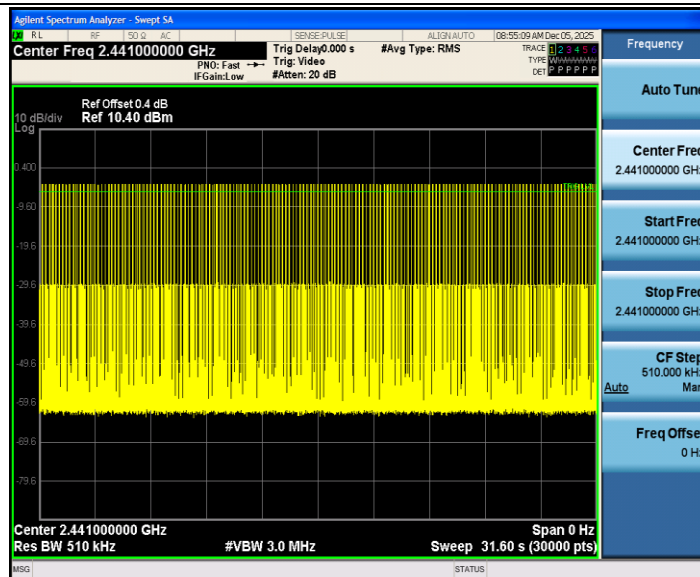
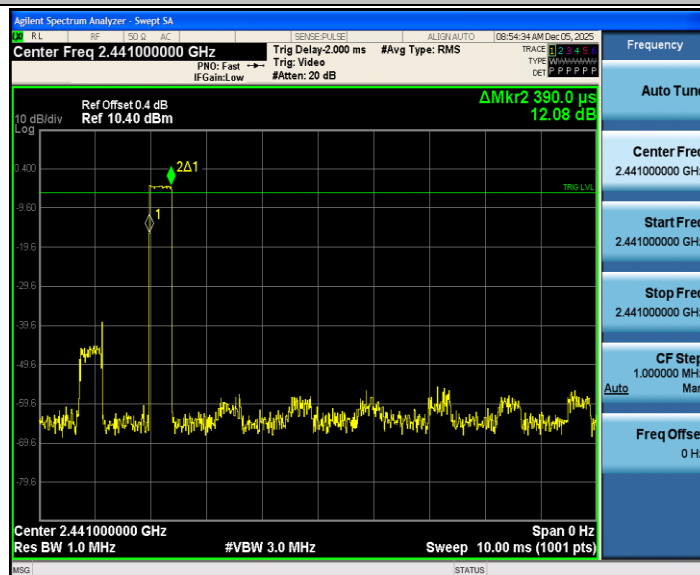


2DH5_Ant1_Hop

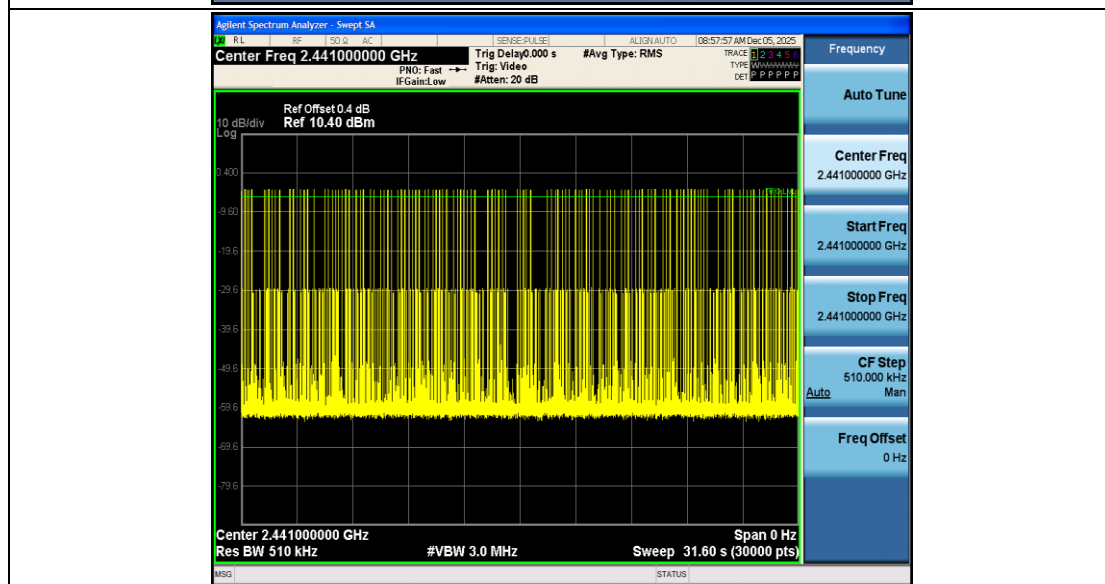




3DH1_Ant1_Hop

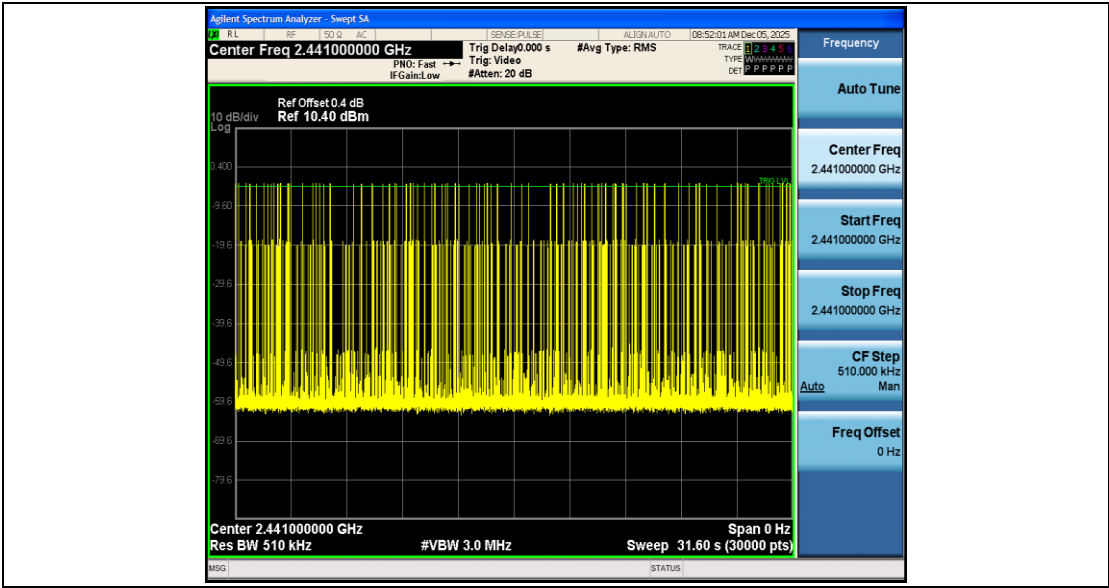


3DH3_Ant1_Hop



3DH5_Ant1_Hop



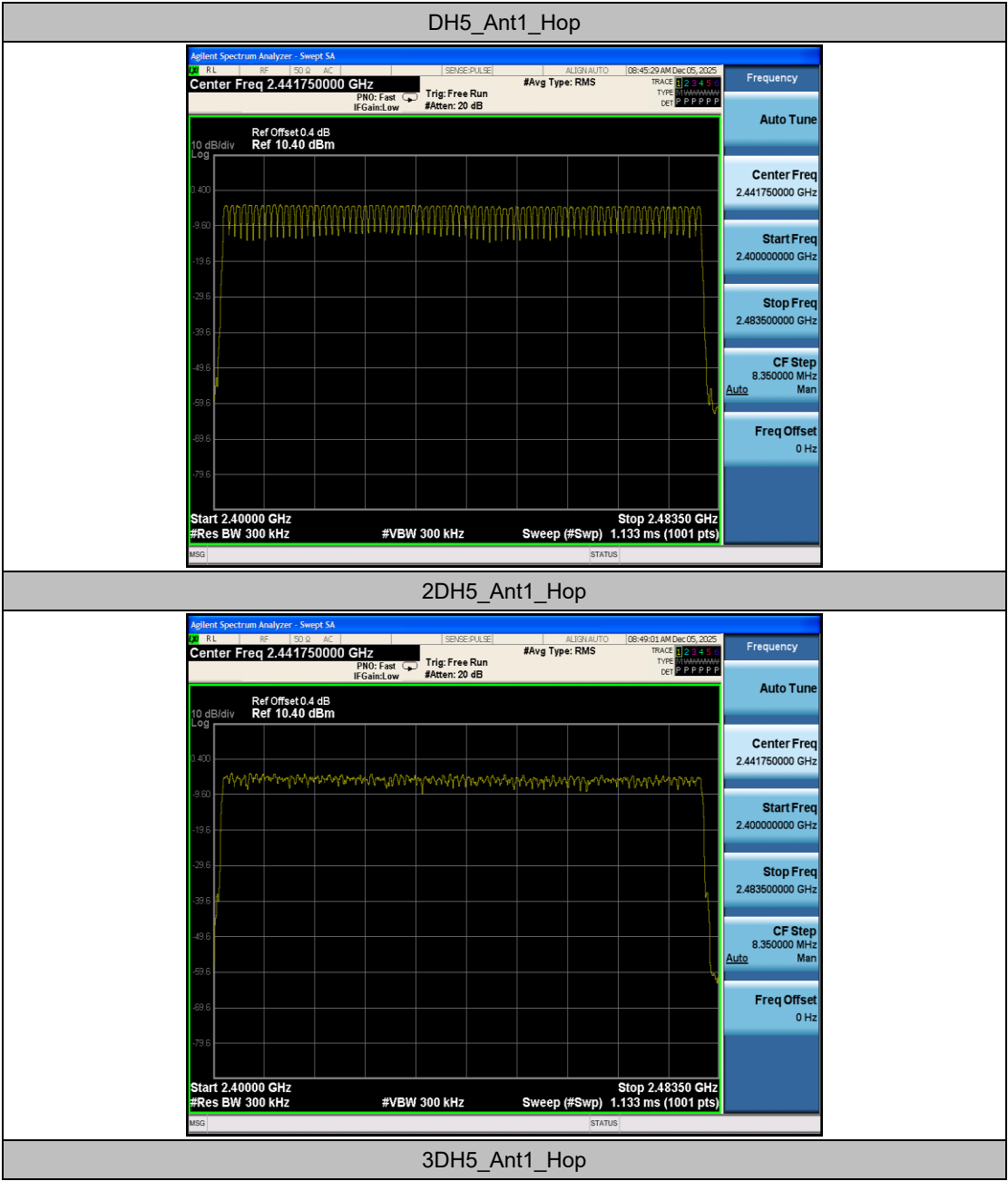


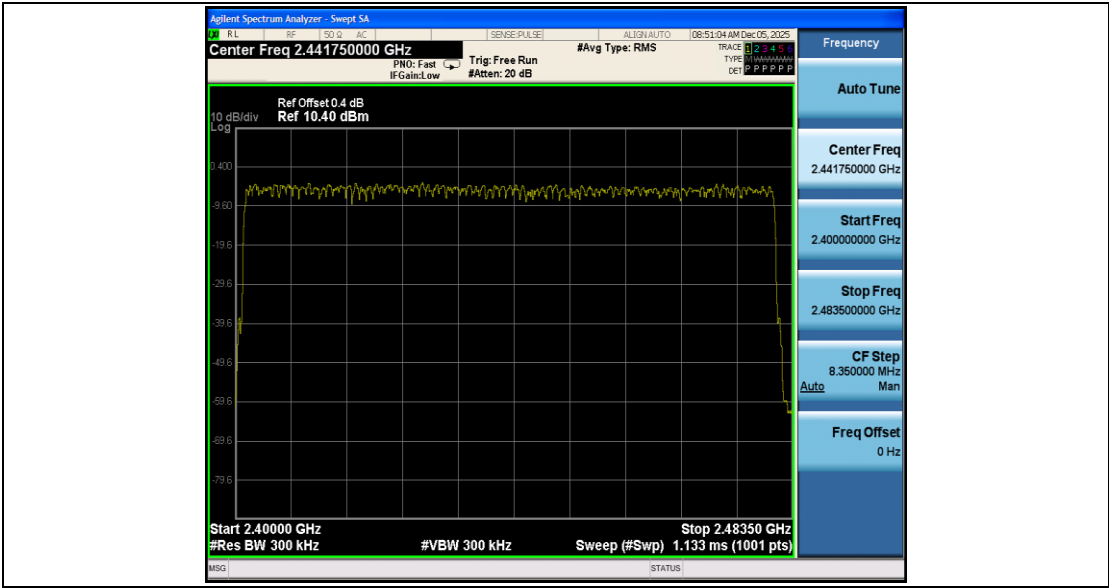
Appendix F: Number of hopping channels

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



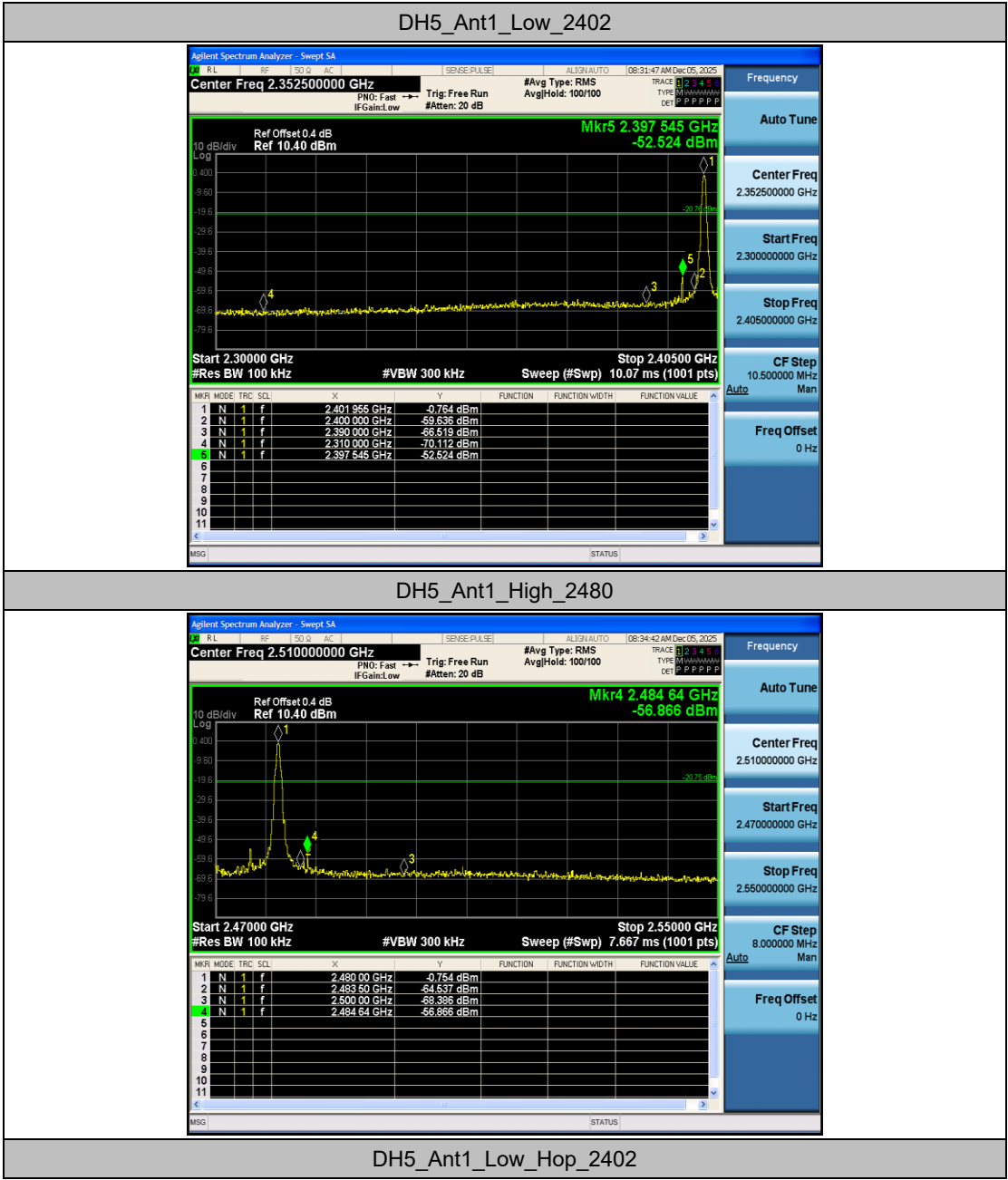


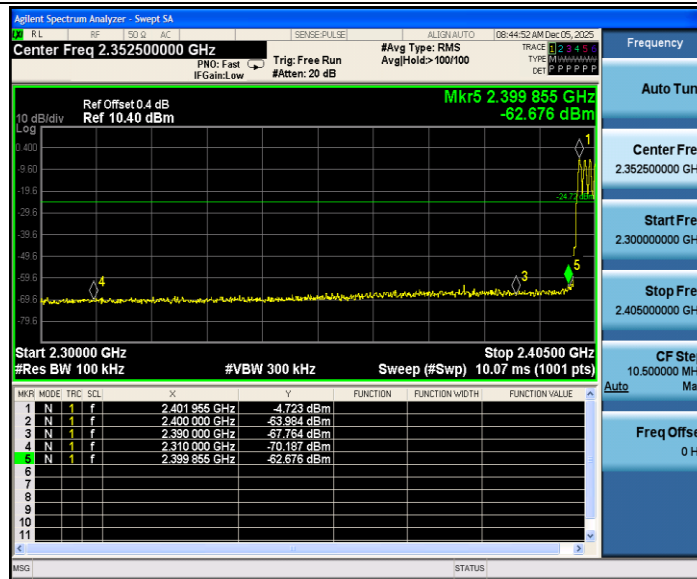
Appendix G: Band edge measurements

Test Result

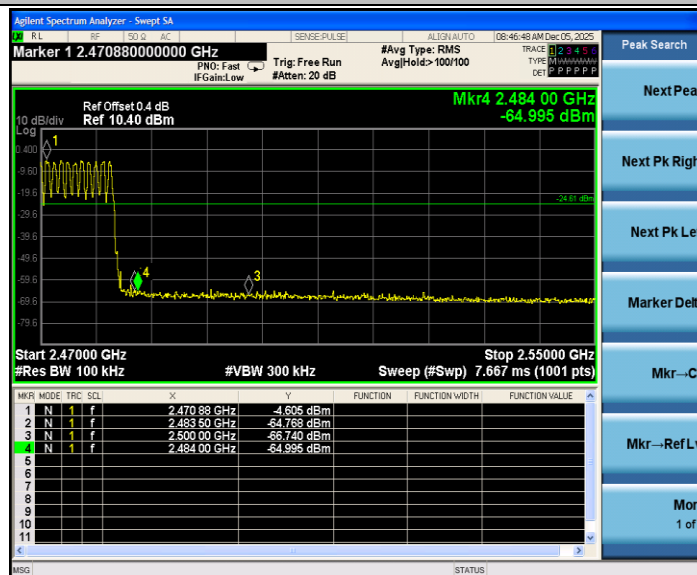
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.76	-52.52	≤-20.76	PASS
		High	2480	-0.75	-56.87	≤-20.75	PASS
		Low	Hop_2402	-4.72	-62.68	≤-24.72	PASS
		High	Hop_2480	-4.61	-65	≤-24.61	PASS
2DH5	Ant1	Low	2402	-3.72	-61.09	≤-23.72	PASS
		High	2480	-4.18	-63.01	≤-24.18	PASS
		Low	Hop_2402	-3.76	-55.72	≤-23.76	PASS
		High	Hop_2480	-4.38	-64.26	≤-24.38	PASS
3DH5	Ant1	Low	2402	-4.09	-61.04	≤-24.09	PASS
		High	2480	-5.30	-64.25	≤-25.3	PASS
		Low	Hop_2402	-4.26	-62.85	≤-24.26	PASS
		High	Hop_2480	-4.87	-64.2	≤-24.87	PASS

Test Graphs

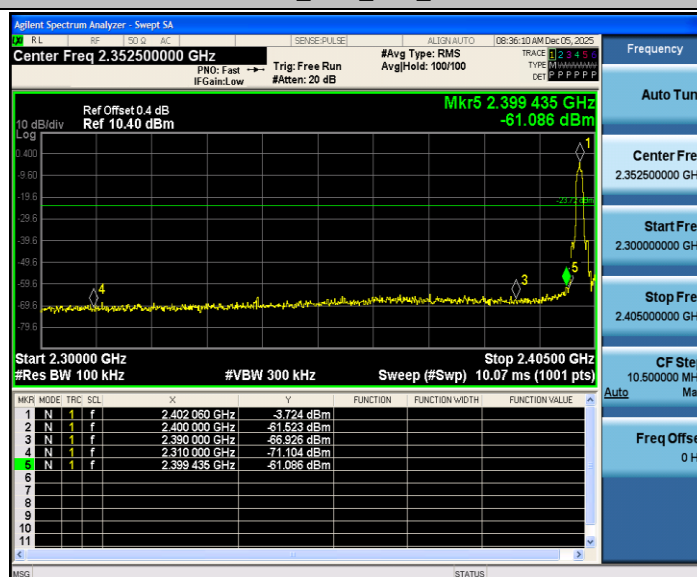




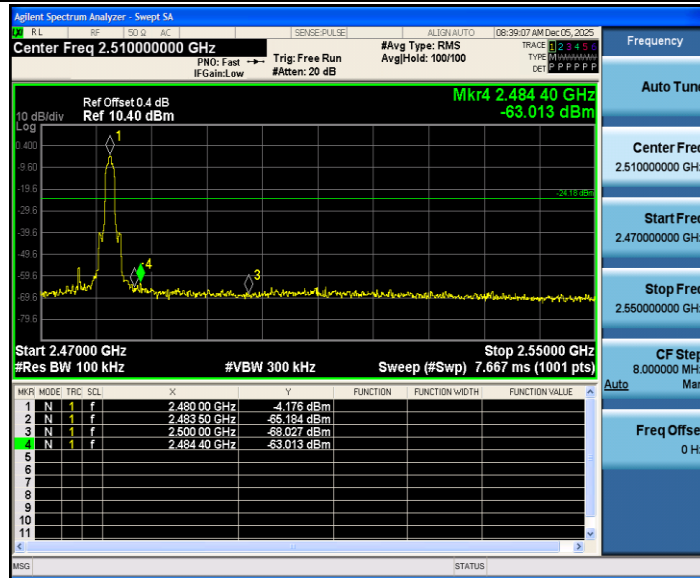
DH5_Ant1_High_Hop_2480



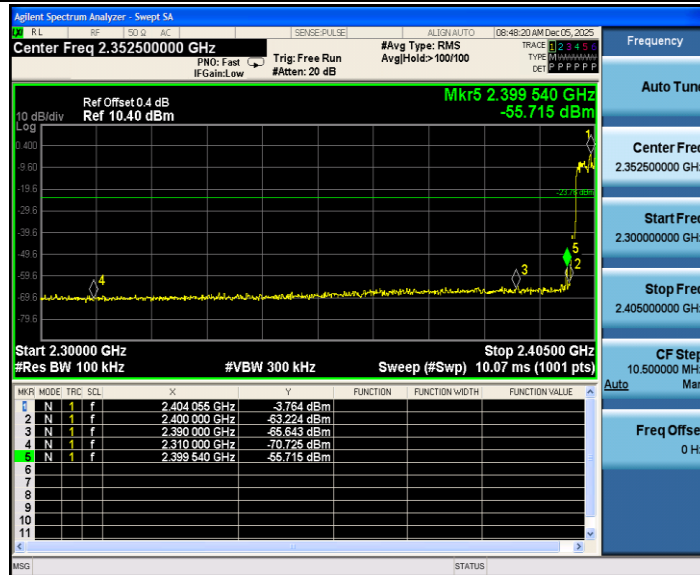
2DH5_Ant1_Low_2402



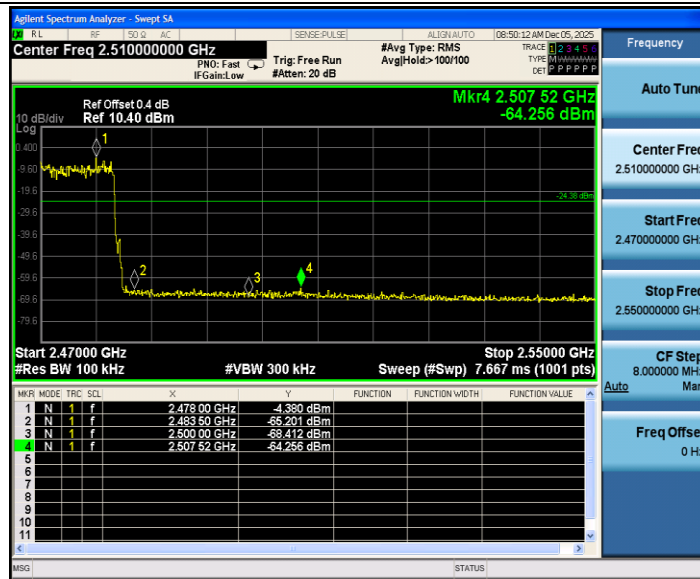
2DH5_Ant1_High_2480



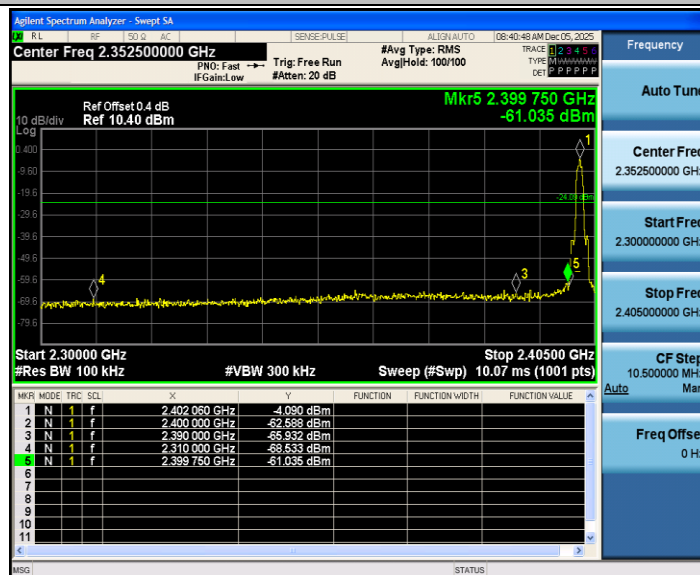
2DH5_Ant1_Low_Hop_2402



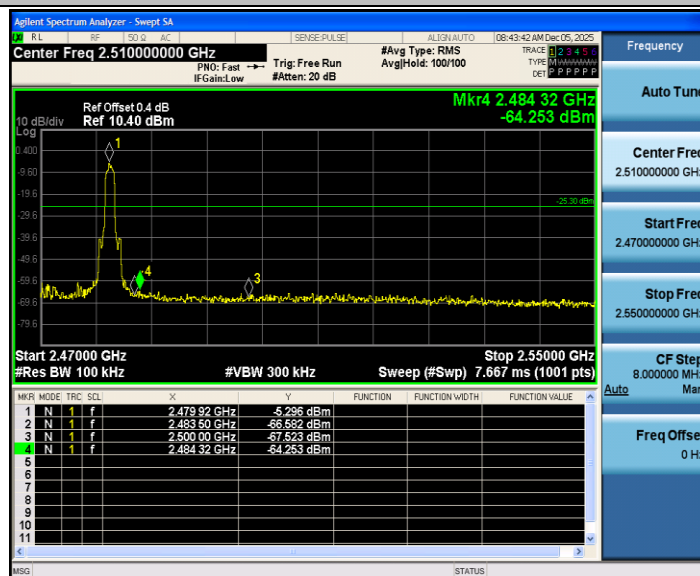
2DH5_Ant1_High_Hop_2480



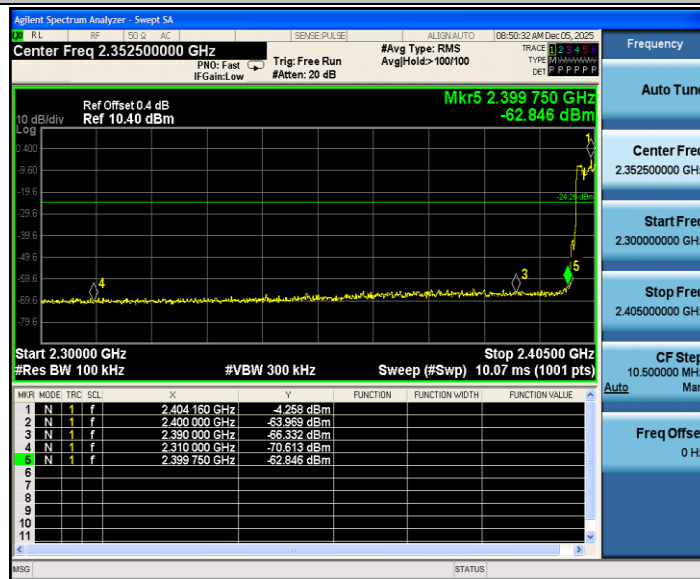
3DH5_Ant1_Low_2402



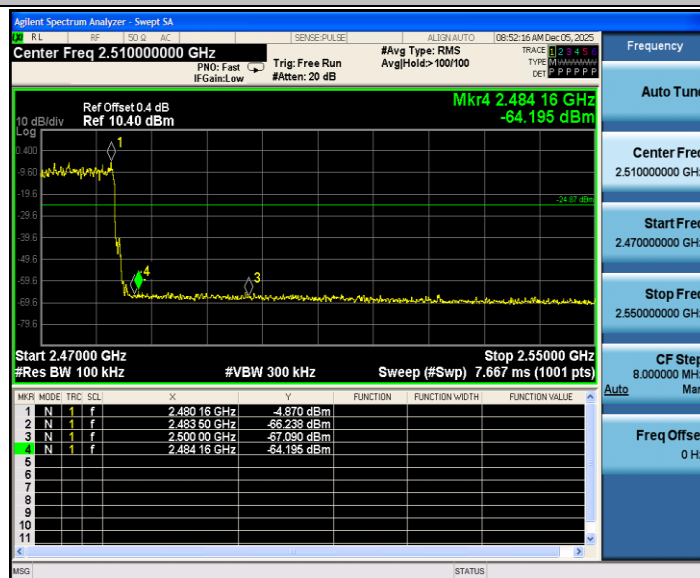
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

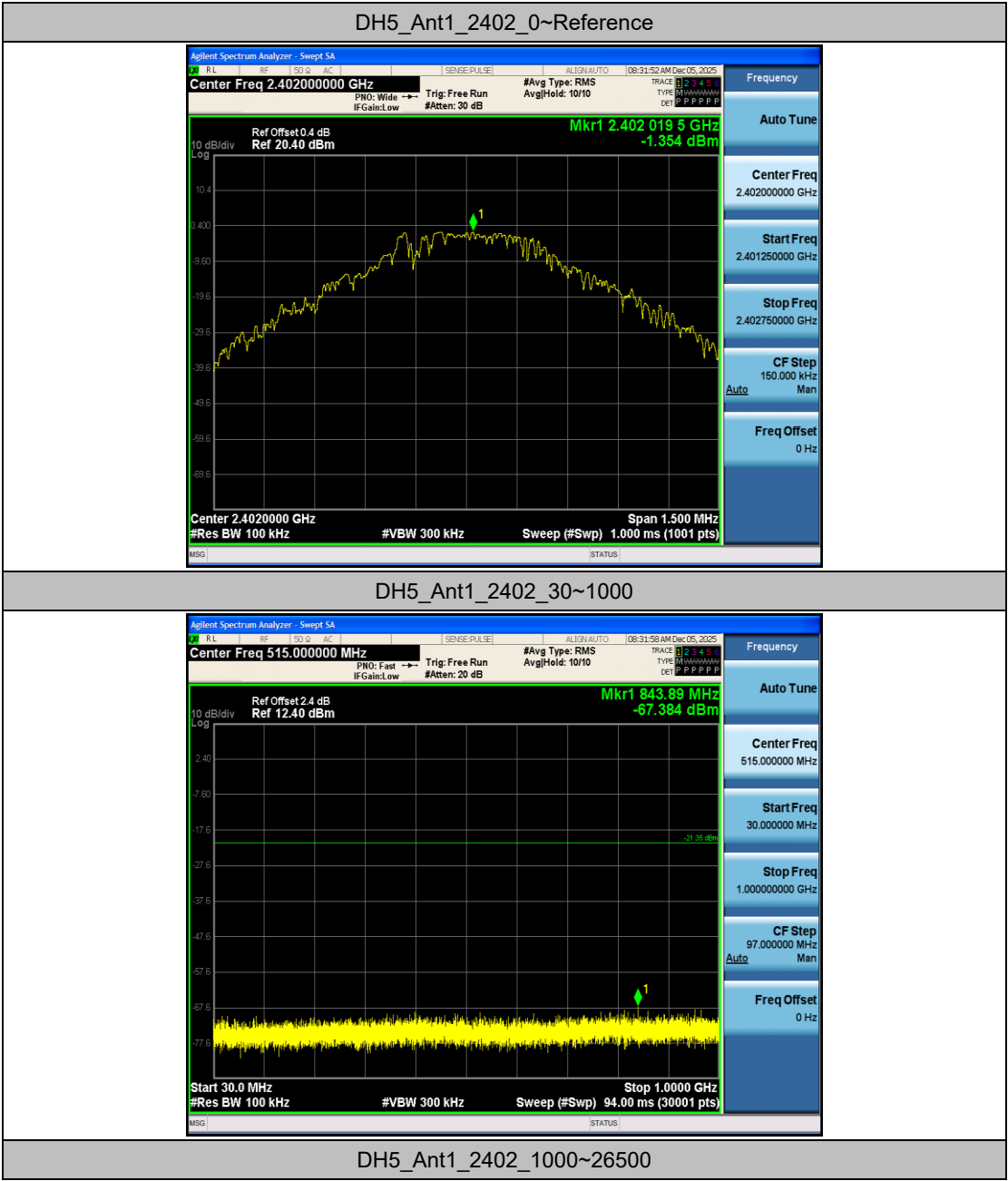


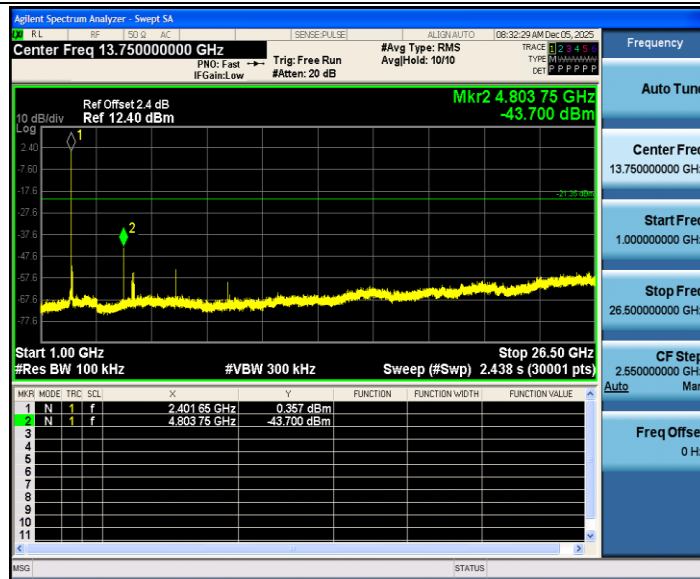
Appendix H: Conducted Spurious Emission

Test Result

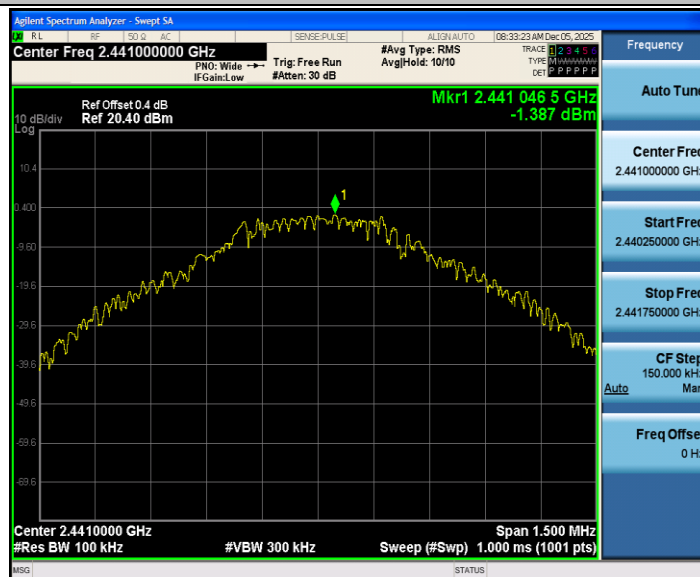
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.35	-1.35	---	PASS
			30~1000	-1.35	-67.38	≤-21.35	PASS
			1000~26500	-1.35	-43.7	≤-21.35	PASS
		2441	Reference	-1.39	-1.39	---	PASS
			30~1000	-1.39	-68.14	≤-21.39	PASS
			1000~26500	-1.39	-42.71	≤-21.39	PASS
		2480	Reference	-1.53	-1.53	---	PASS
			30~1000	-1.53	-67.97	≤-21.53	PASS
			1000~26500	-1.53	-41.41	≤-21.53	PASS
2DH5	Ant1	2402	Reference	-4.93	-4.93	---	PASS
			30~1000	-4.93	-68.09	≤-24.93	PASS
			1000~26500	-4.93	-48.31	≤-24.93	PASS
		2441	Reference	-5.36	-5.36	---	PASS
			30~1000	-5.36	-68.15	≤-25.36	PASS
			1000~26500	-5.36	-49.63	≤-25.36	PASS
		2480	Reference	-7.70	-7.70	---	PASS
			30~1000	-7.70	-62.26	≤-27.7	PASS
			1000~26500	-7.70	-49.48	≤-27.7	PASS
3DH5	Ant1	2402	Reference	-6.99	-6.99	---	PASS
			30~1000	-6.99	-55.21	≤-26.99	PASS
			1000~26500	-6.99	-50.07	≤-26.99	PASS
		2441	Reference	-4.65	-4.65	---	PASS
			30~1000	-4.65	-67.97	≤-24.65	PASS
			1000~26500	-4.65	-44.56	≤-24.65	PASS
		2480	Reference	-4.76	-4.76	---	PASS
			30~1000	-4.76	-57.6	≤-24.76	PASS
			1000~26500	-4.76	-45.45	≤-24.76	PASS

Test Graphs





DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

