

FCC Appendix RF Test Data of Module 1

FCC ID : 2BHX3-TAA07

Company: : Shenzhen Trolink Technology Co., Ltd

EUT : Car AI Box

Model Number : TAA07

Report No. : CTA25031800801

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	0.939	2401.556	2402.495	---	---
		2441	0.948	2440.550	2441.498	---	---
		2480	0.924	2479.559	2480.483	---	---
2DH5	Ant1	2402	1.257	2401.400	2402.657	---	---
		2441	1.323	2440.349	2441.672	---	---
		2480	1.284	2479.379	2480.663	---	---
3DH5	Ant1	2402	1.311	2401.355	2402.666	---	---
		2441	1.320	2440.349	2441.669	---	---
		2480	1.314	2479.352	2480.666	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

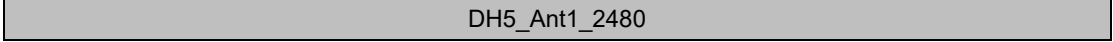
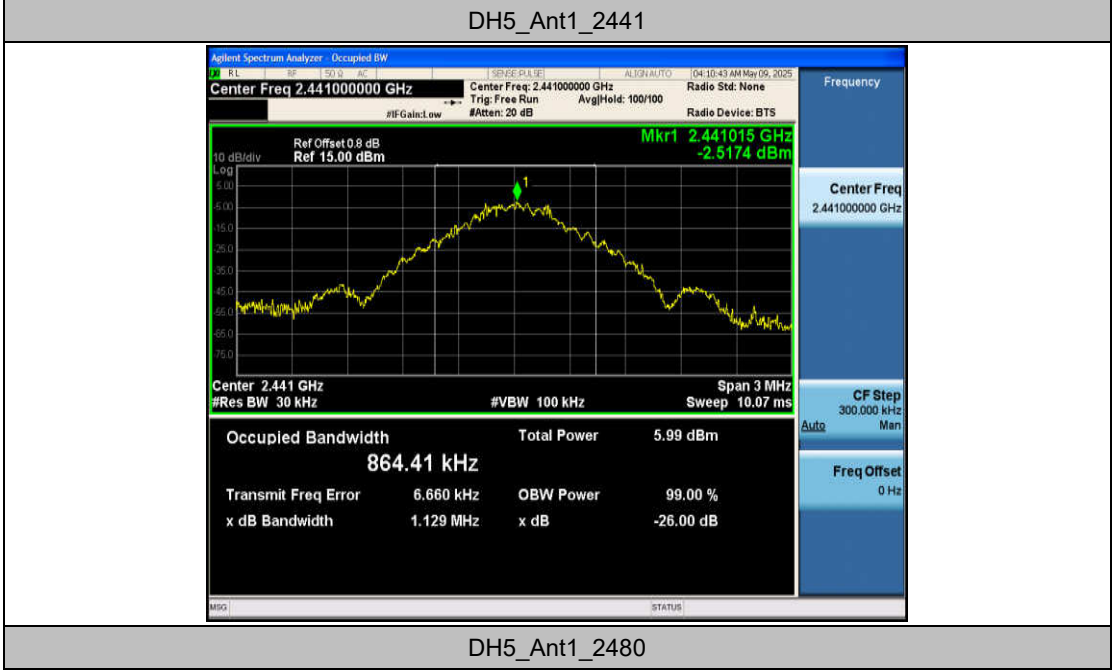
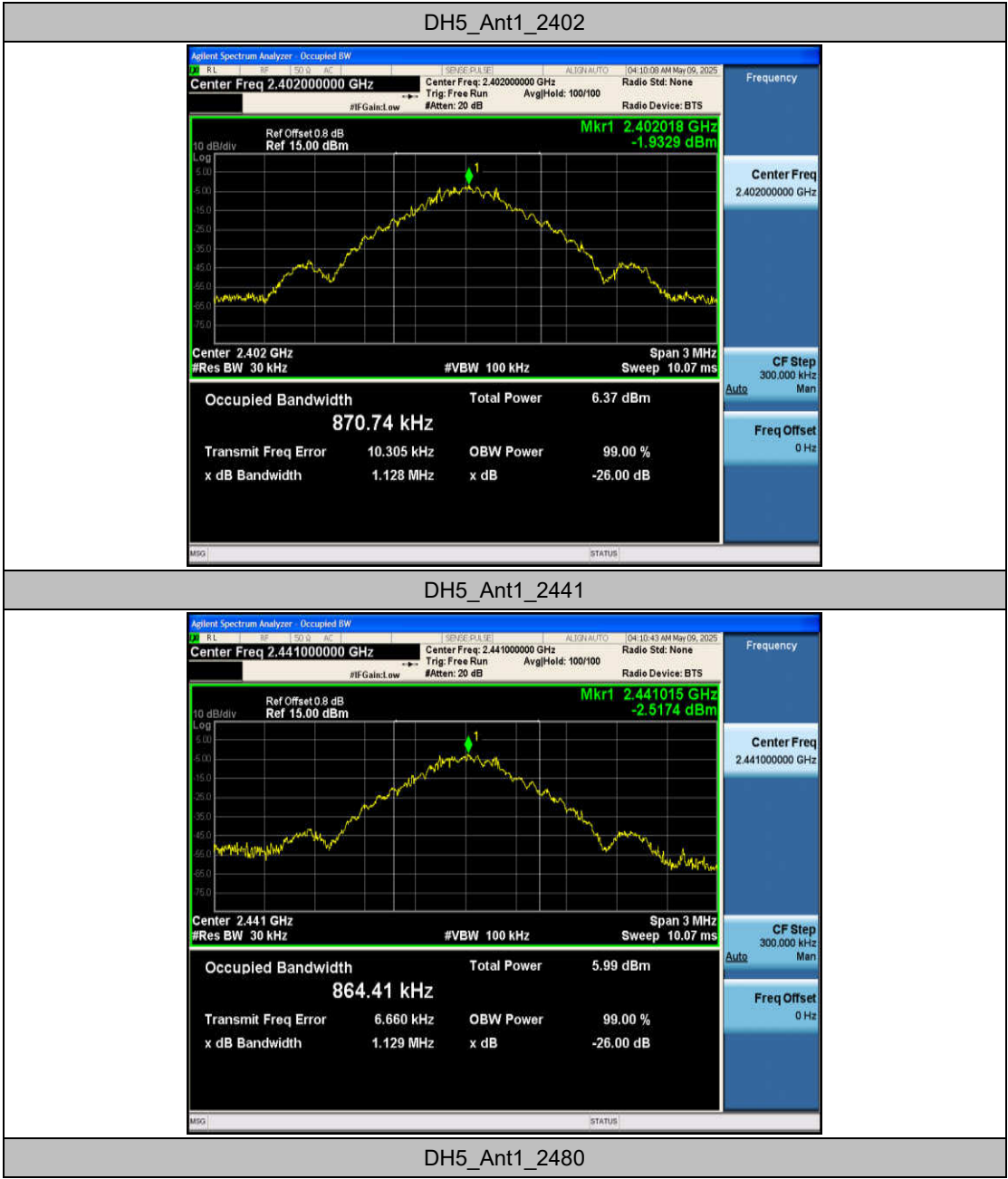


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87074	2401.5749	2402.4457	---	---
		2441	0.86441	2440.5745	2441.4389	---	---
		2480	0.87220	2479.5738	2480.4460	---	---
2DH5	Ant1	2402	1.1895	2401.4158	2402.6053	---	---
		2441	1.1857	2440.4167	2441.6024	---	---
		2480	1.1850	2479.4179	2480.6029	---	---
3DH5	Ant1	2402	1.1933	2401.4142	2402.6075	---	---
		2441	1.1863	2440.4169	2441.6032	---	---
		2480	1.1906	2479.4171	2480.6077	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



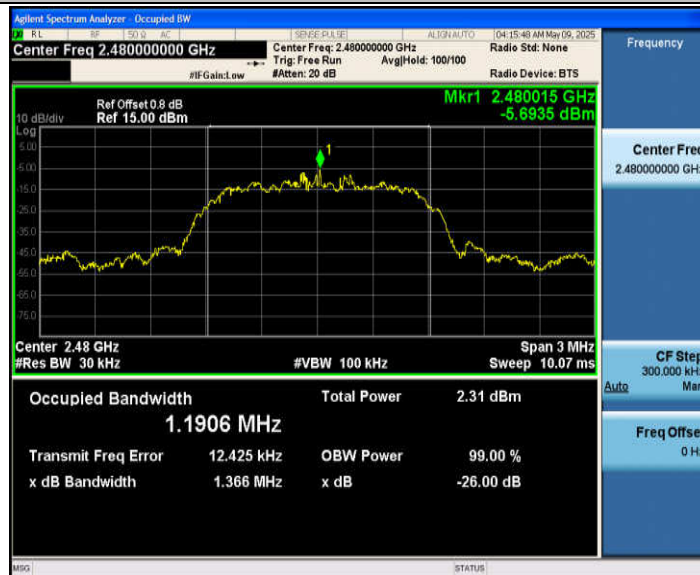
3DH5_Ant1_2402



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	0.50	≤20.97	PASS
		2441	0.06	≤20.97	PASS
		2480	-0.28	≤20.97	PASS
2DH5	Ant1	2402	-0.32	≤20.97	PASS
		2441	-0.81	≤20.97	PASS
		2480	-1.11	≤20.97	PASS
3DH5	Ant1	2402	-0.31	≤20.97	PASS
		2441	-0.80	≤20.97	PASS
		2480	-1.05	≤20.97	PASS

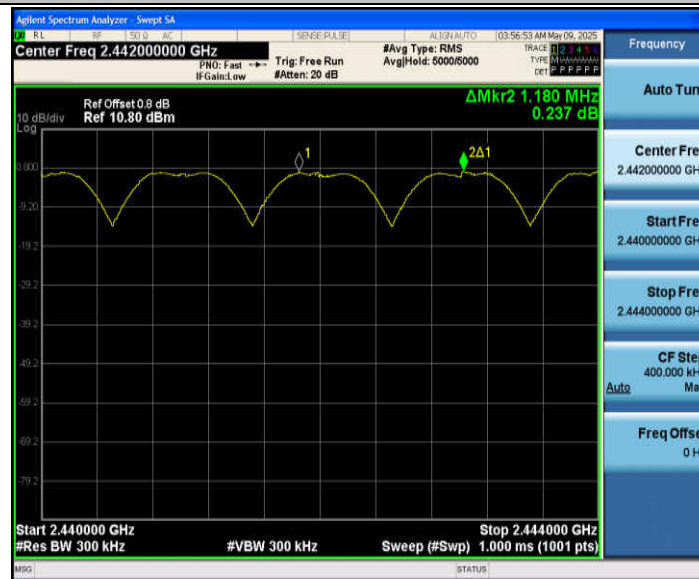
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.18	≥ 0.756	PASS
2DH5	Ant1	Hop	1.18	≥ 0.862	PASS
3DH5	Ant1	Hop	1.292	≥ 0.866	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

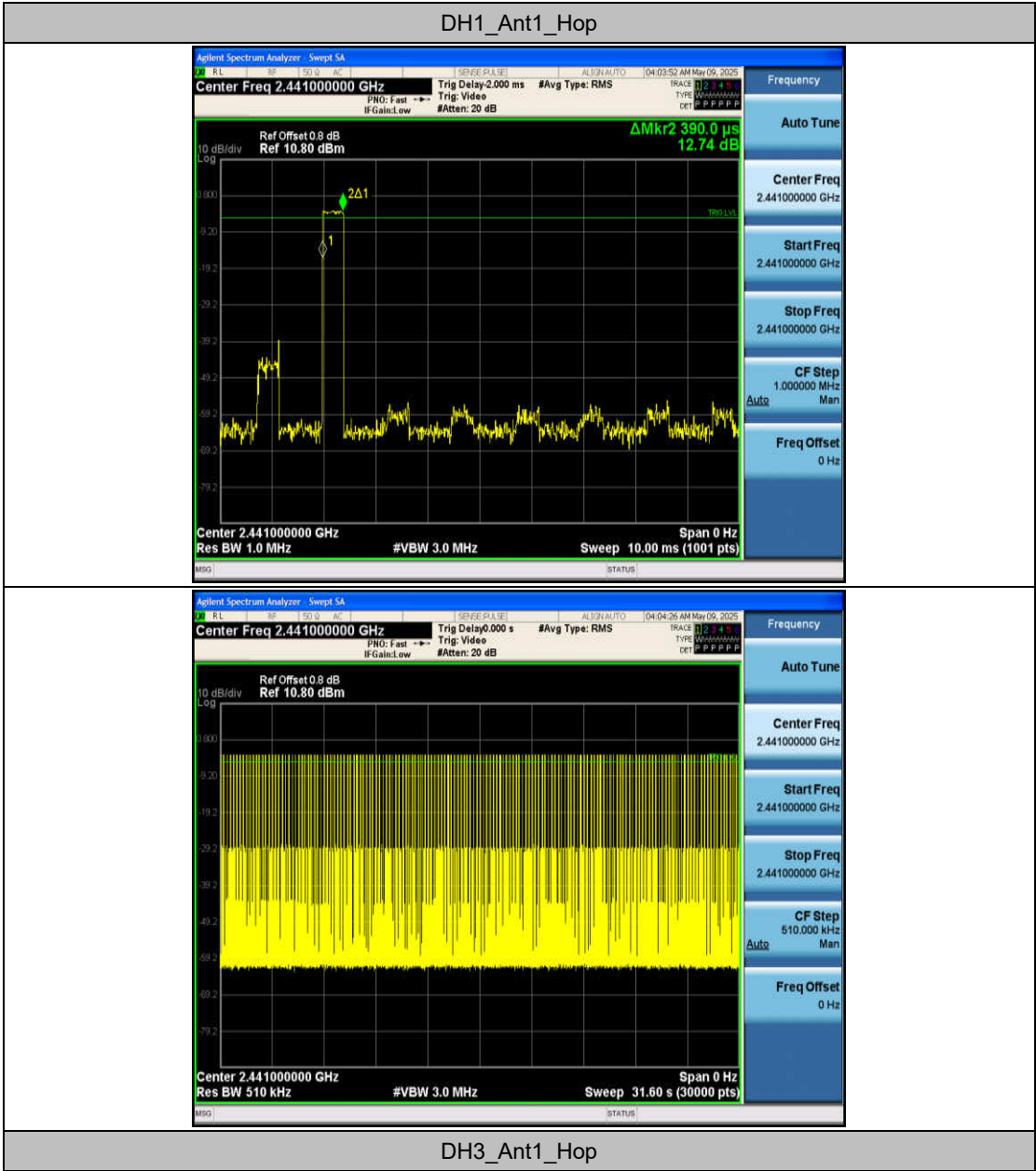


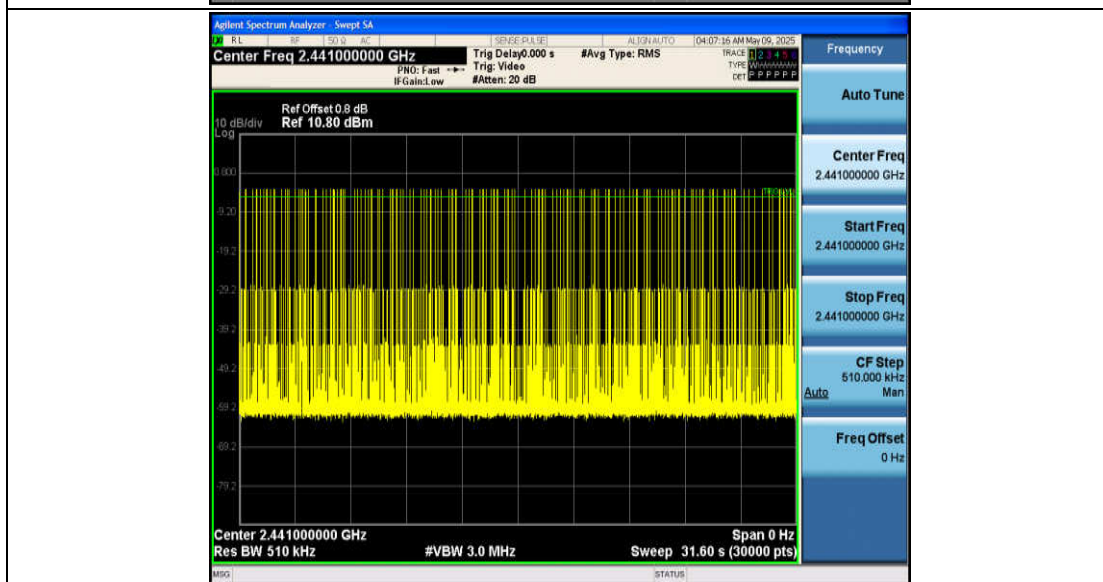
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	311	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.650	160	0.264	≤0.4	PASS
DH5	Ant1	Hop	2.890	110	0.318	≤0.4	PASS
2DH1	Ant1	Hop	0.390	315	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.650	160	0.264	≤0.4	PASS
2DH5	Ant1	Hop	2.900	107	0.31	≤0.4	PASS
3DH1	Ant1	Hop	0.390	315	0.123	≤0.4	PASS
3DH3	Ant1	Hop	1.640	168	0.276	≤0.4	PASS
3DH5	Ant1	Hop	2.900	96	0.278	≤0.4	PASS

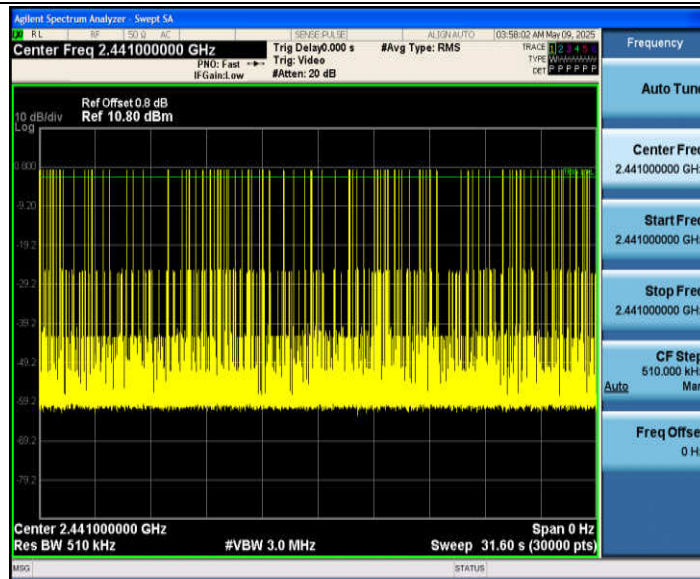
Test Graphs



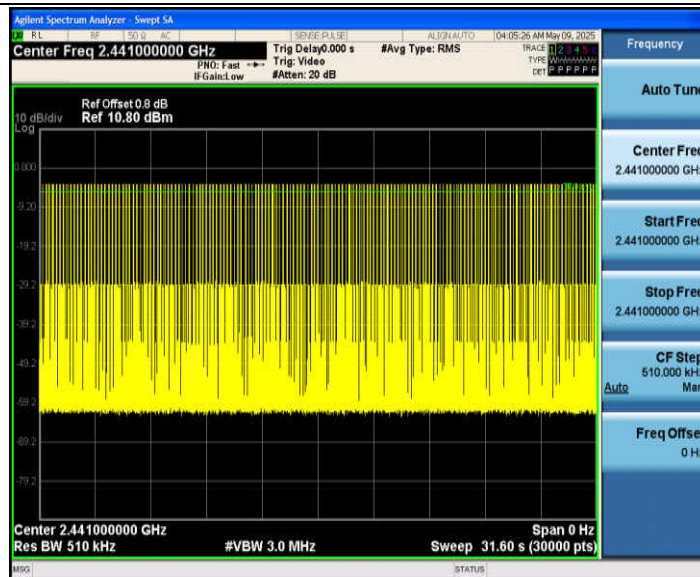


DH5_Ant1_Hop

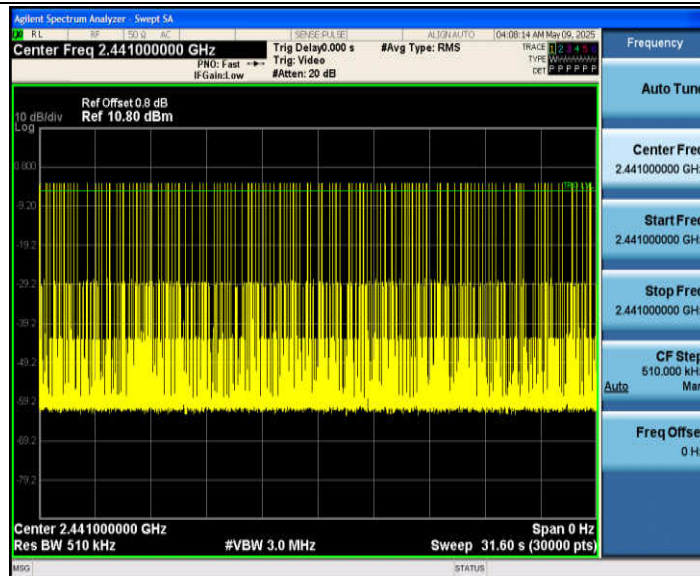




2DH1_Ant1_Hop

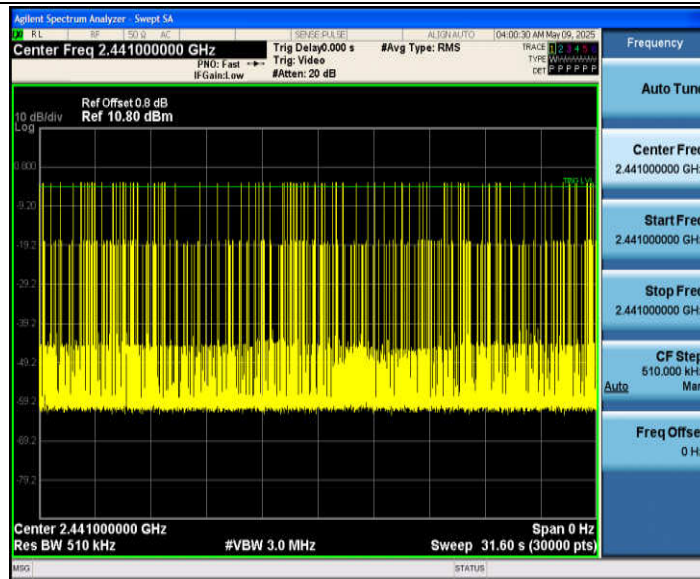


2DH3_Ant1_Hop

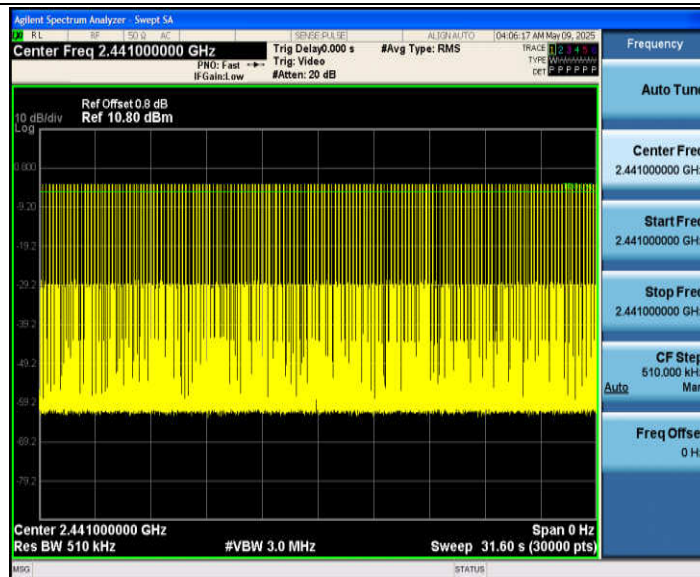


2DH5_Ant1_Hop

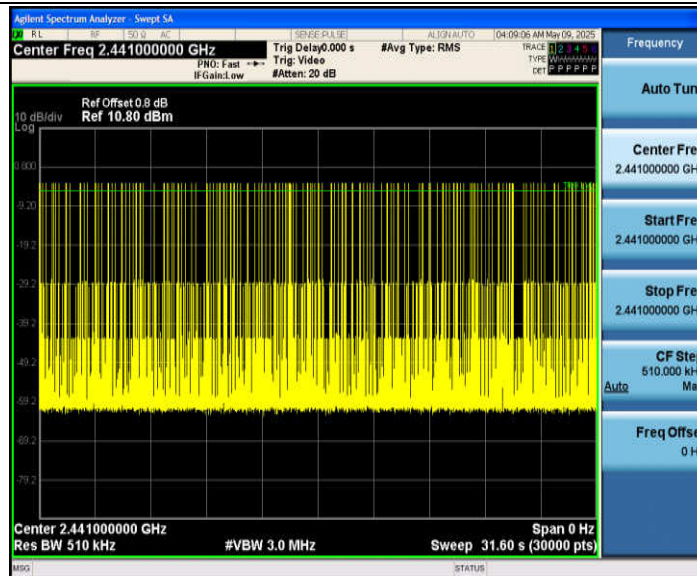




3DH1_Ant1_Hop

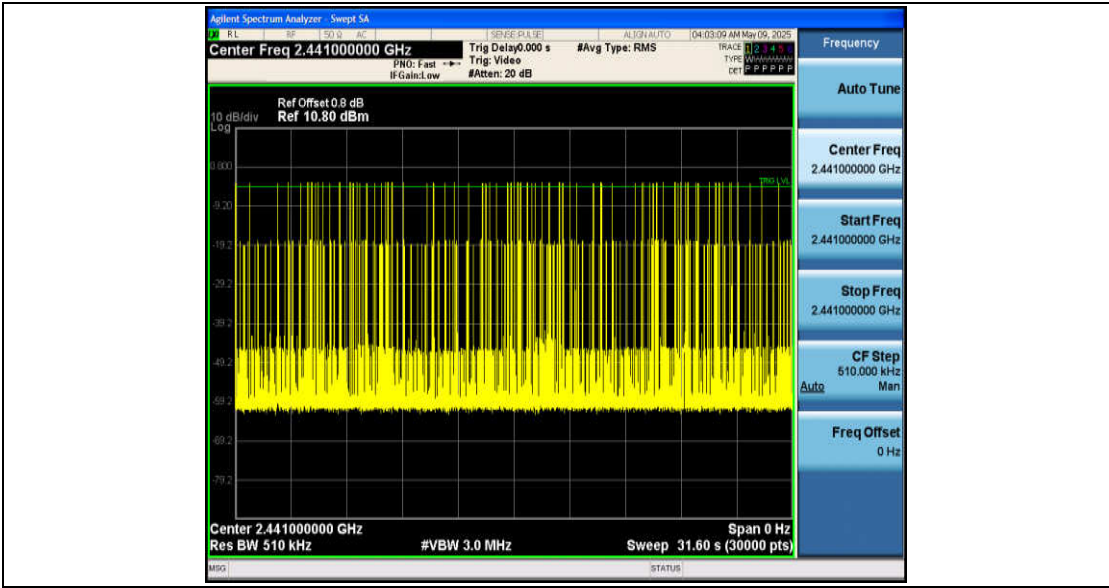


3DH3_Ant1_Hop



3DH5_Ant1_Hop





Appendix F: Number of hopping channels

Test Result

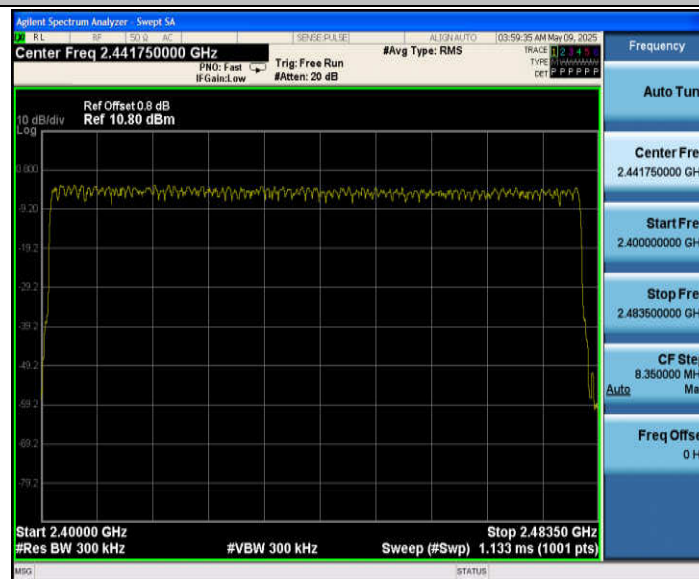
TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

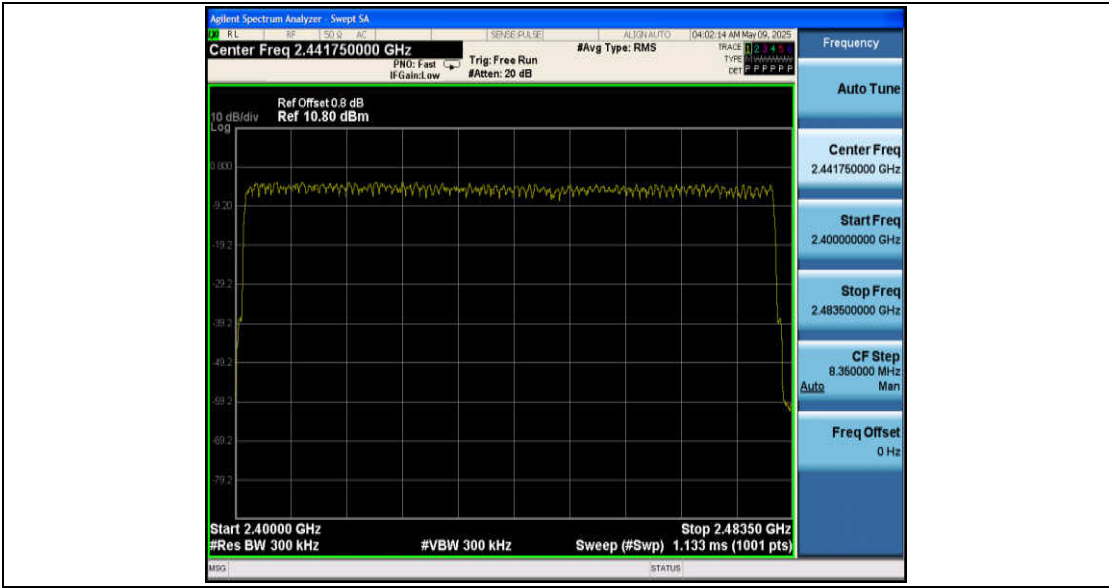
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

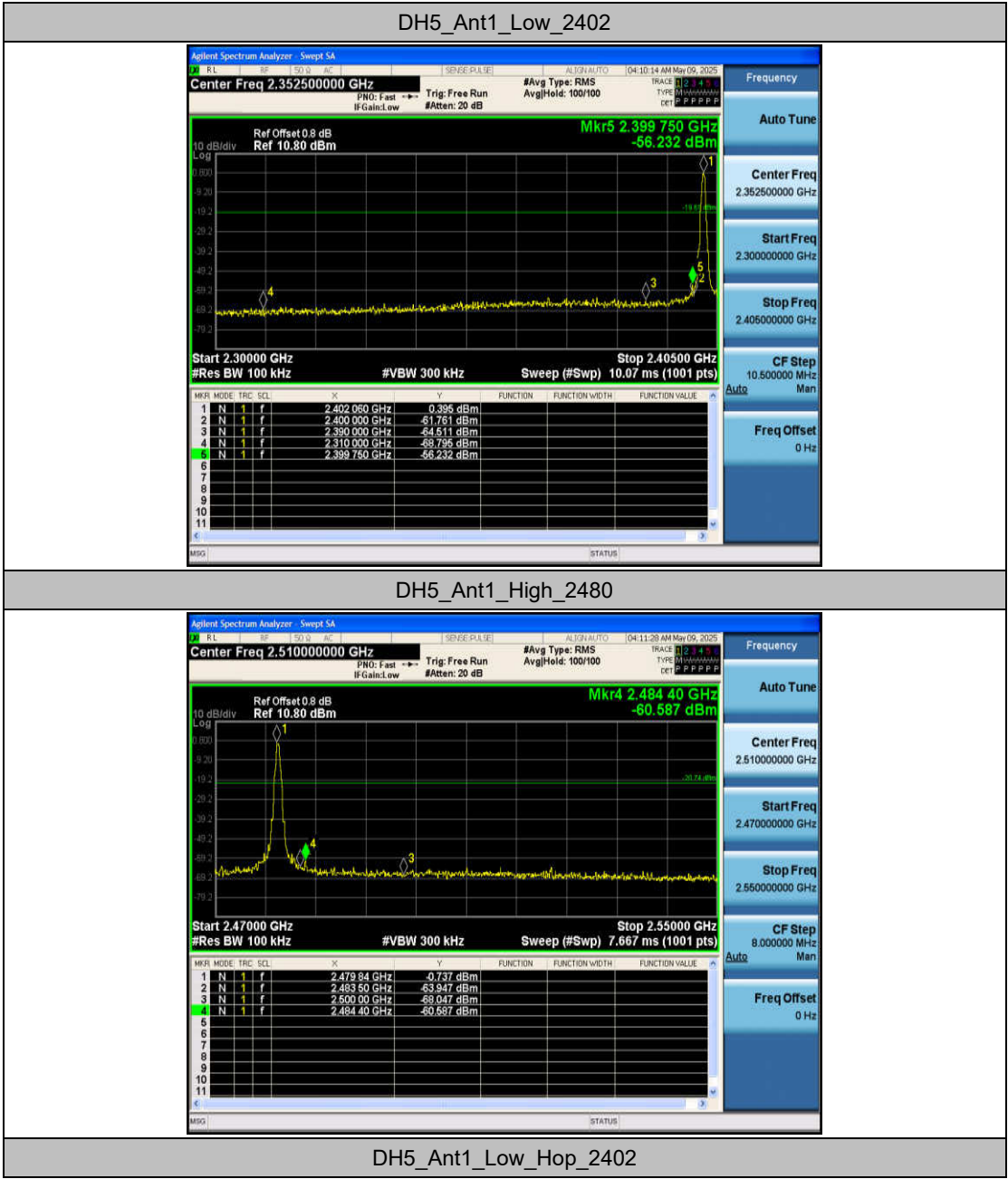


Appendix G: Band edge measurements

Test Result

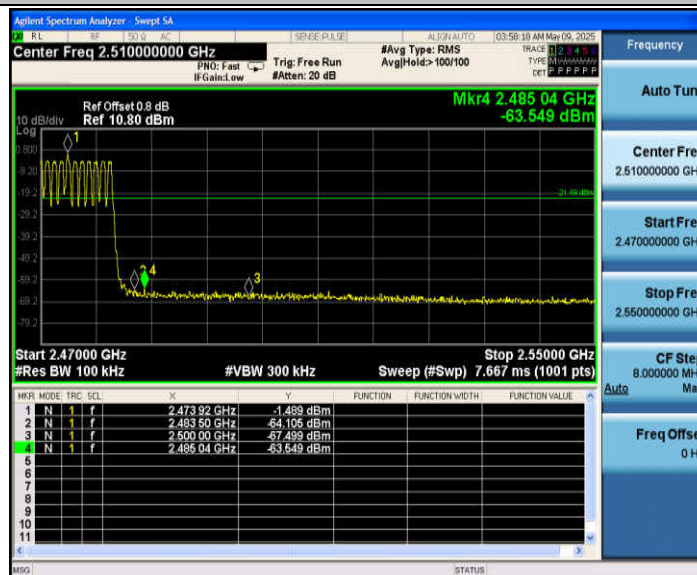
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.40	-56.23	≤-19.61	PASS
		High	2480	-0.74	-60.59	≤-20.74	PASS
		Low	Hop_2402	-3.65	-56.86	≤-23.65	PASS
		High	Hop_2480	-1.49	-63.55	≤-21.49	PASS
2DH5	Ant1	Low	2402	-3.15	-59.29	≤-23.15	PASS
		High	2480	-3.91	-58.3	≤-23.91	PASS
		Low	Hop_2402	-8.37	-59.71	≤-28.37	PASS
		High	Hop_2480	-4.77	-64.12	≤-24.77	PASS
3DH5	Ant1	Low	2402	-3.76	-60.15	≤-23.76	PASS
		High	2480	-4.83	-62.74	≤-24.83	PASS
		Low	Hop_2402	-6.06	-59.8	≤-26.06	PASS
		High	Hop_2480	-4.45	-64.39	≤-24.45	PASS

Test Graphs

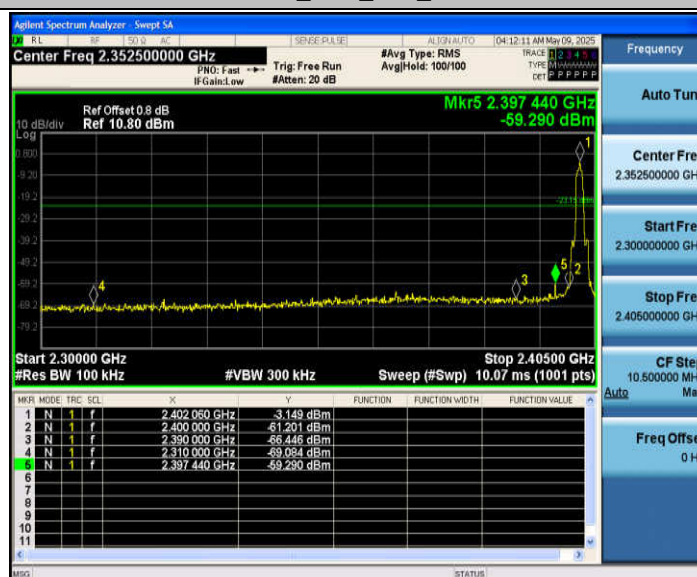




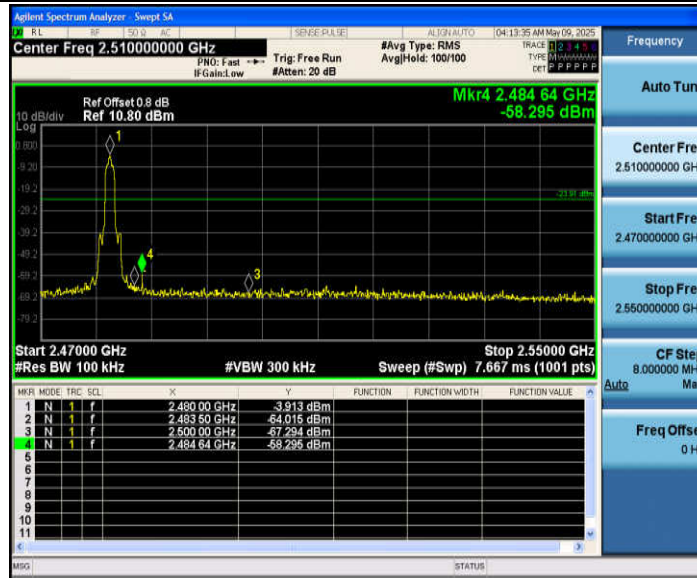
DH5_Ant1_High_Hop_2480



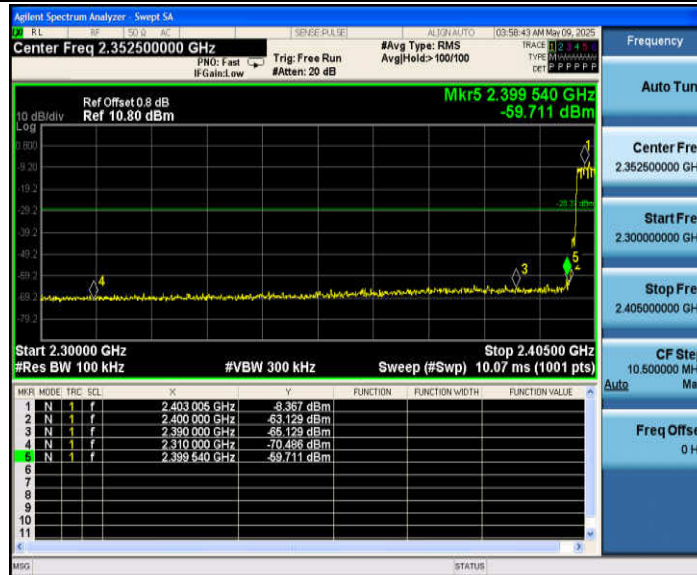
2DH5_Ant1_Low_2402



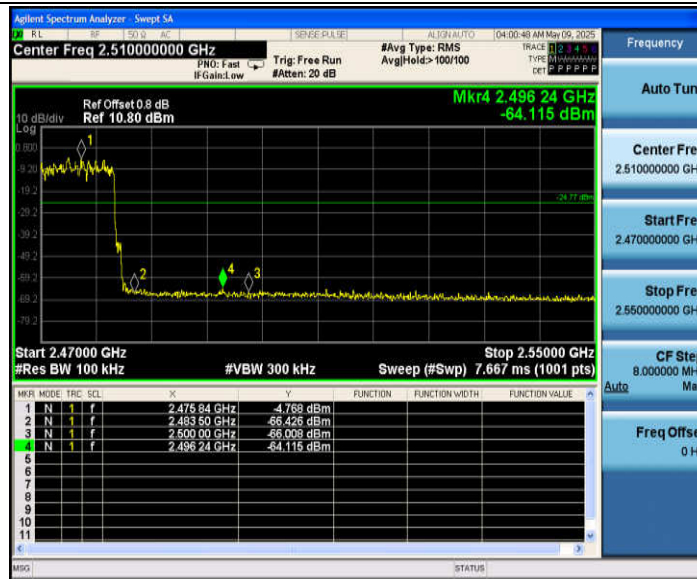
2DH5_Ant1_High_2480



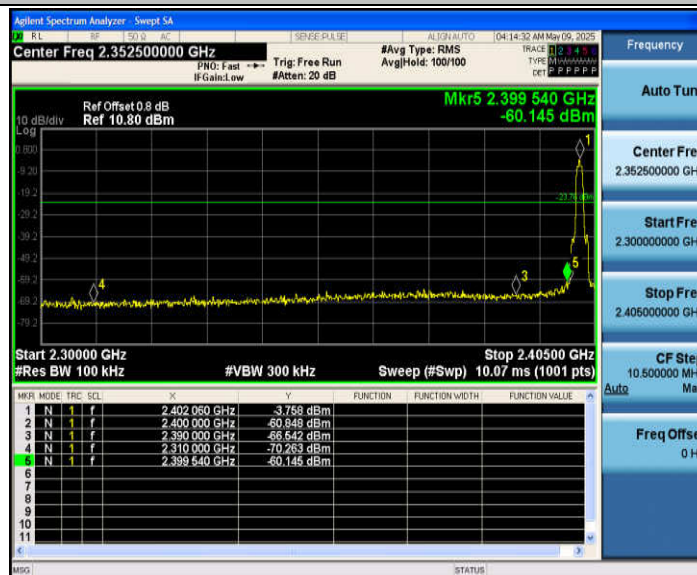
2DH5_Ant1_Low_Hop_2402



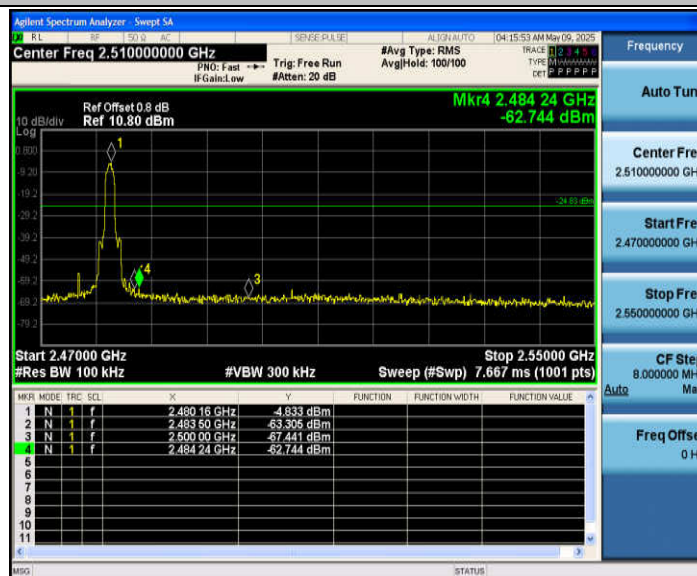
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402



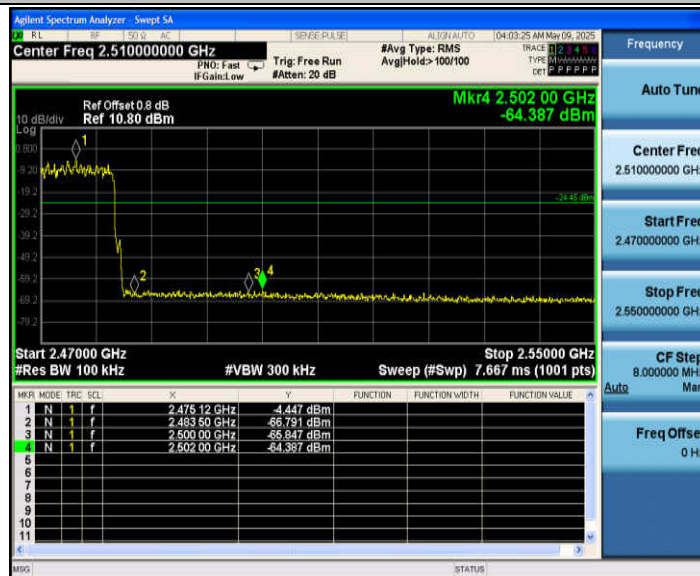
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

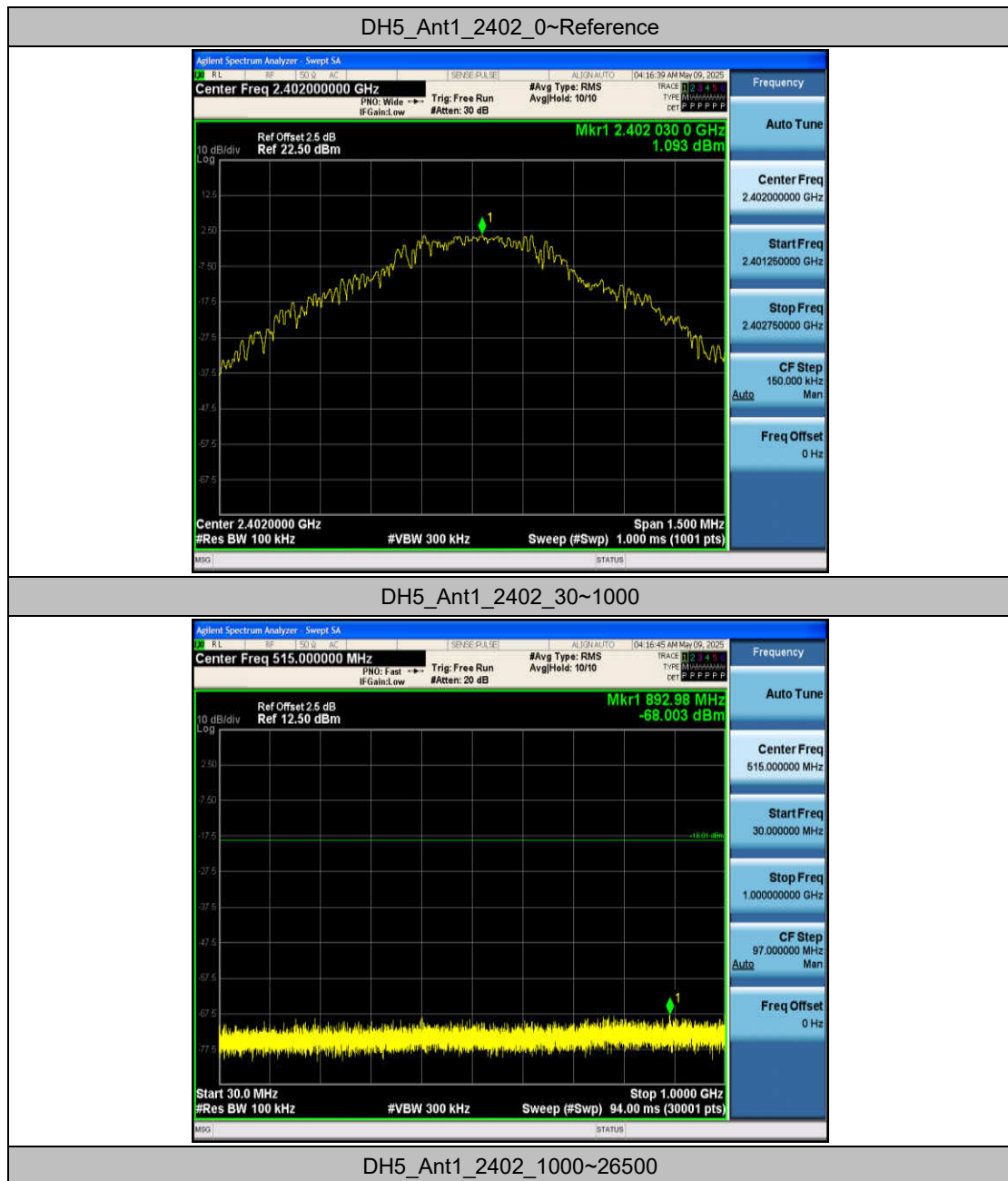


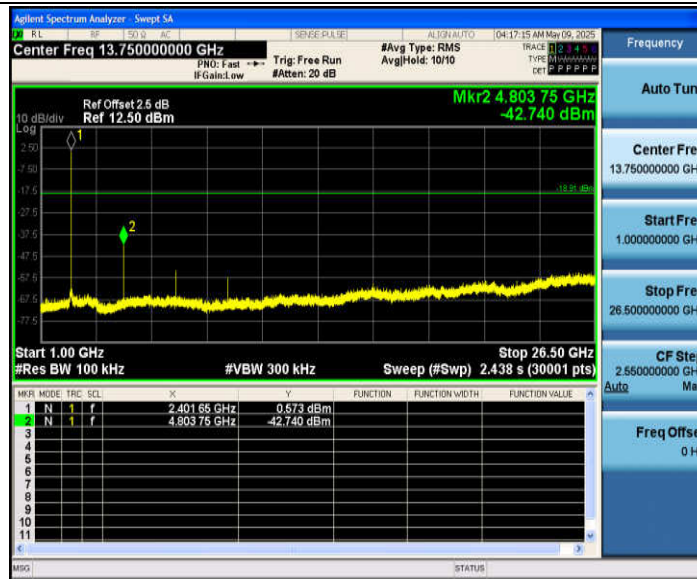
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.09	1.09	---	PASS
			30~1000	1.09	-68	≤-18.91	PASS
			1000~26500	1.09	-42.74	≤-18.91	PASS
		2441	Reference	0.86	0.86	---	PASS
			30~1000	0.86	-68.23	≤-19.14	PASS
			1000~26500	0.86	-42.63	≤-19.14	PASS
		2480	Reference	0.40	0.40	---	PASS
			30~1000	0.40	-68.22	≤-19.6	PASS
			1000~26500	0.40	-44.62	≤-19.6	PASS
2DH5	Ant1	2402	Reference	-3.76	-3.76	---	PASS
			30~1000	-3.76	-67.82	≤-23.76	PASS
			1000~26500	-3.76	-45.77	≤-23.76	PASS
		2441	Reference	-1.90	-1.90	---	PASS
			30~1000	-1.90	-67.17	≤-21.9	PASS
			1000~26500	-1.90	-47.96	≤-21.9	PASS
		2480	Reference	-3.87	-3.87	---	PASS
			30~1000	-3.87	-68.23	≤-23.87	PASS
			1000~26500	-3.87	-45.96	≤-23.87	PASS
3DH5	Ant1	2402	Reference	-3.55	-3.55	---	PASS
			30~1000	-3.55	-67.78	≤-23.55	PASS
			1000~26500	-3.55	-48.64	≤-23.55	PASS
		2441	Reference	-2.80	-2.80	---	PASS
			30~1000	-2.80	-67.49	≤-22.8	PASS
			1000~26500	-2.80	-41.9	≤-22.8	PASS
		2480	Reference	-3.38	-3.38	---	PASS
			30~1000	-3.38	-67.16	≤-23.38	PASS
			1000~26500	-3.38	-50.08	≤-23.38	PASS

Test Graphs

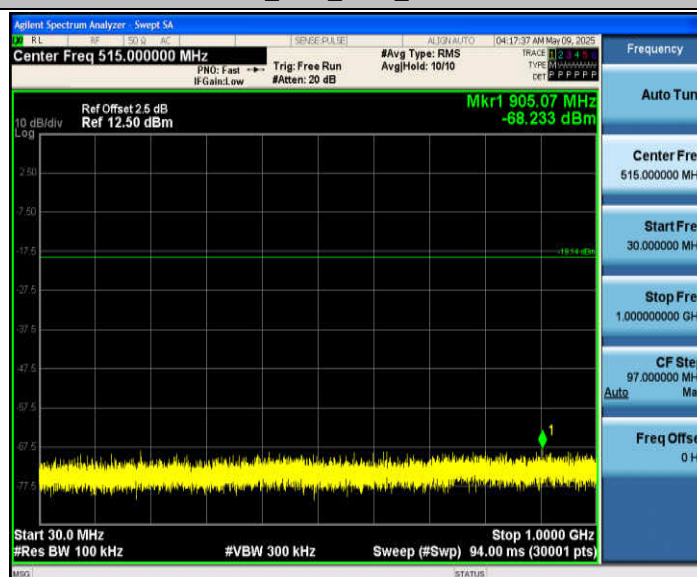




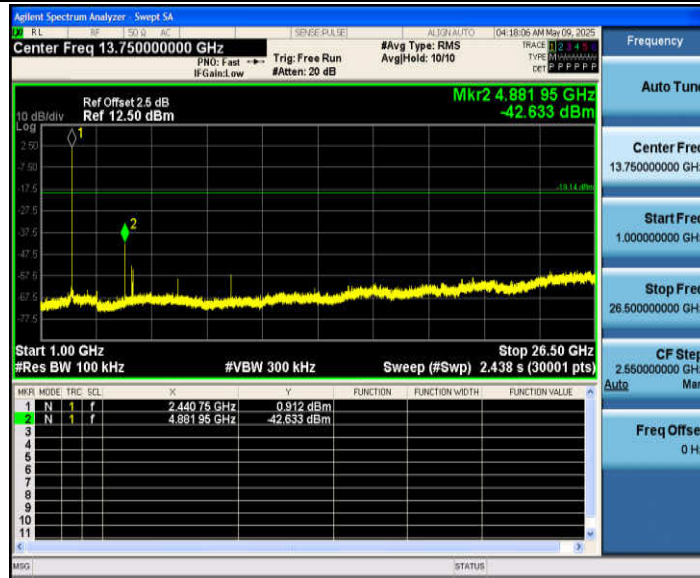
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



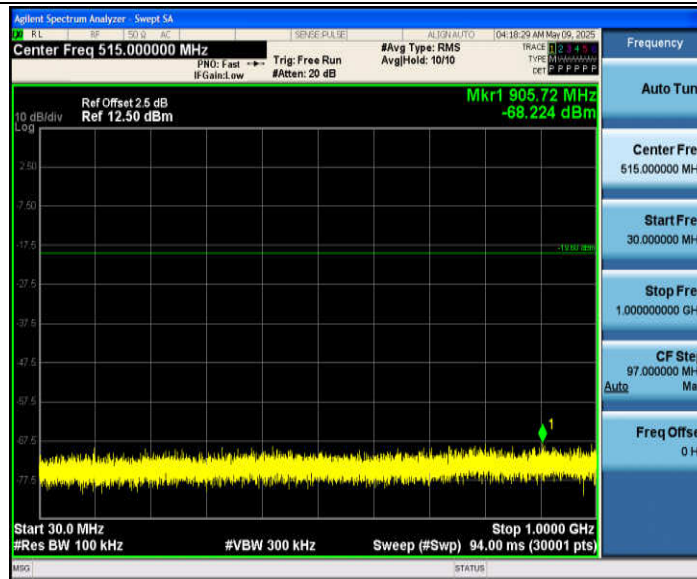
DH5_Ant1_2441_1000~26500



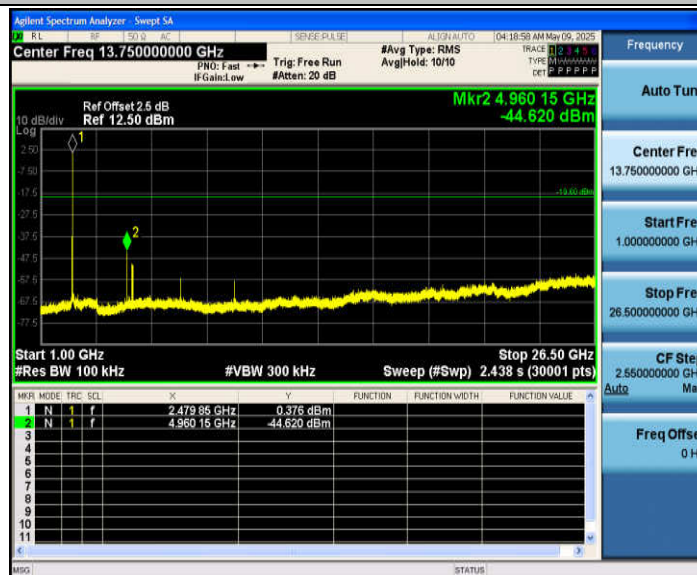
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



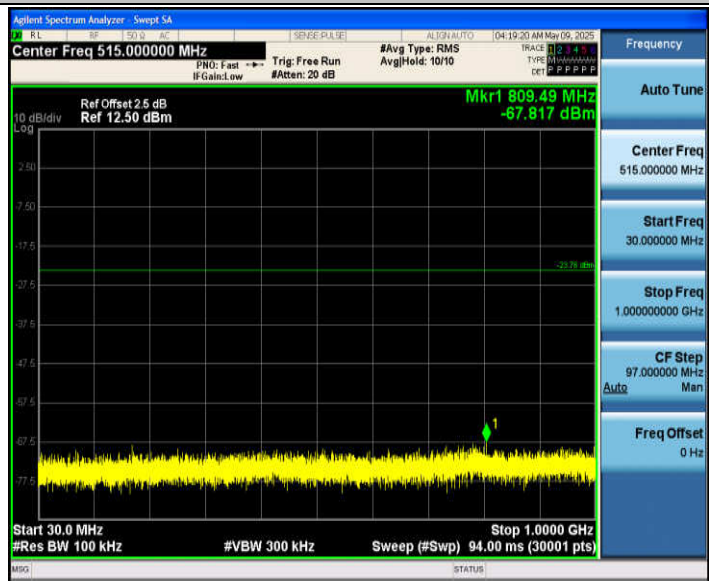
DH5_Ant1_2480_1000~26500



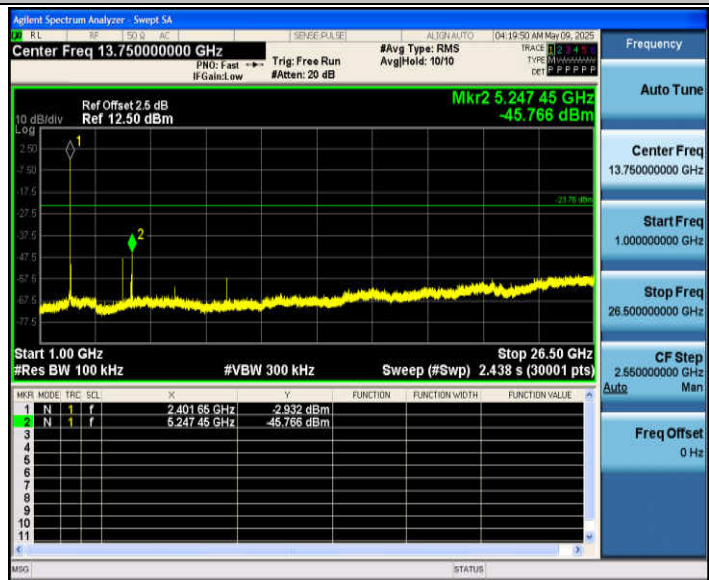
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



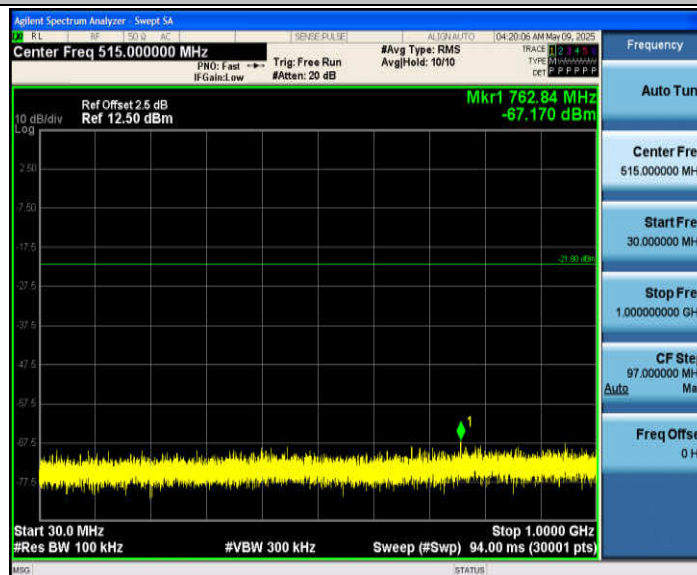
2DH5_Ant1_2402_1000~26500



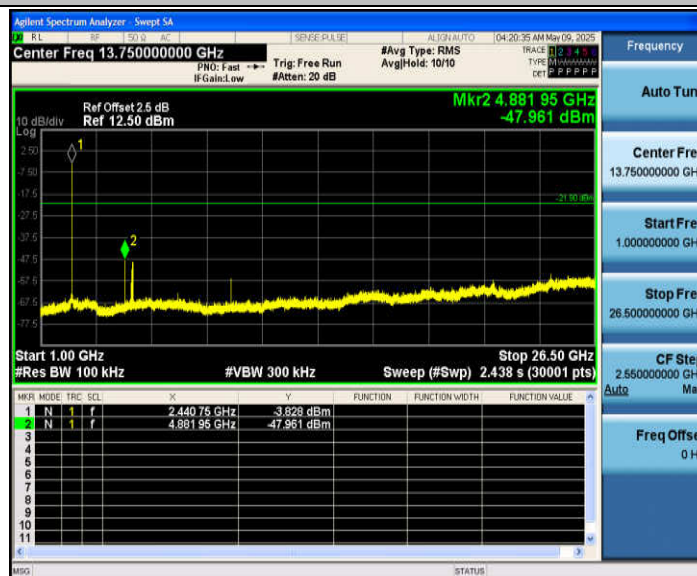
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



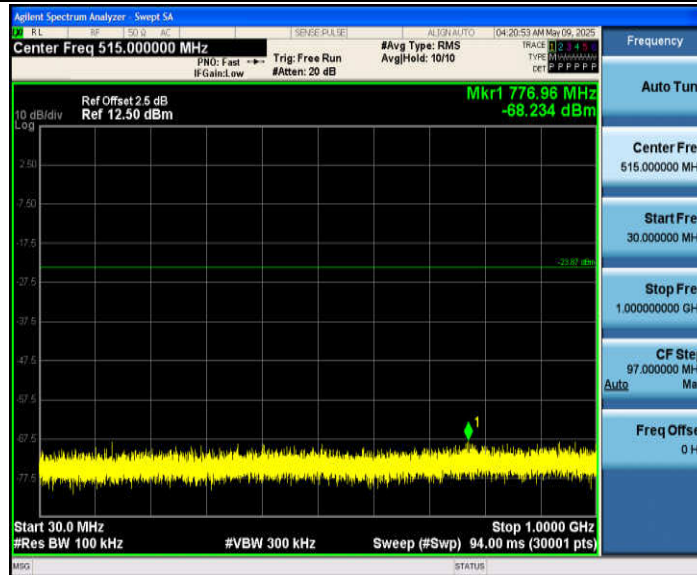
2DH5_Ant1_2441_1000~26500



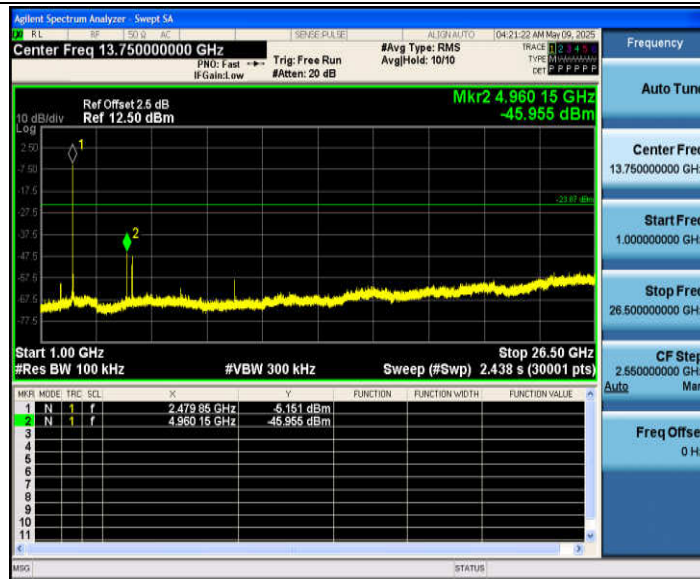
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



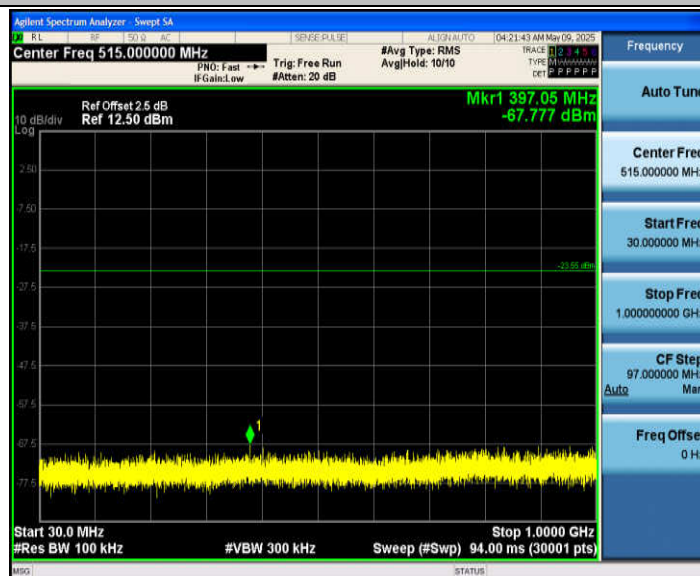
2DH5_Ant1_2480_1000~26500



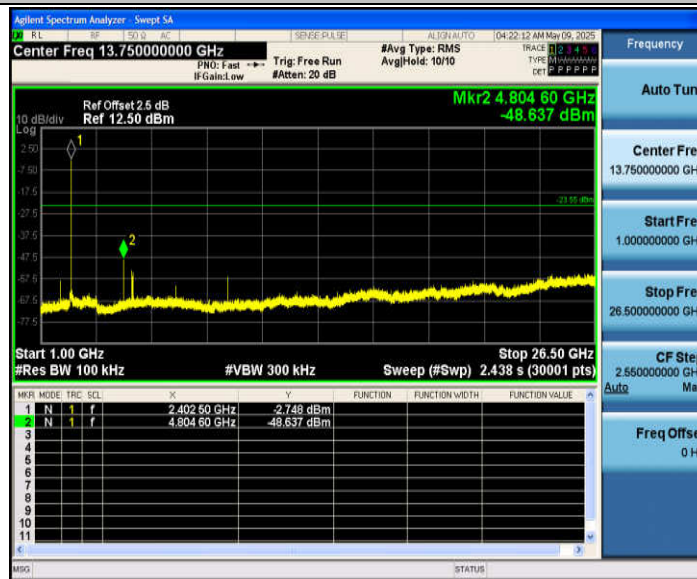
3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



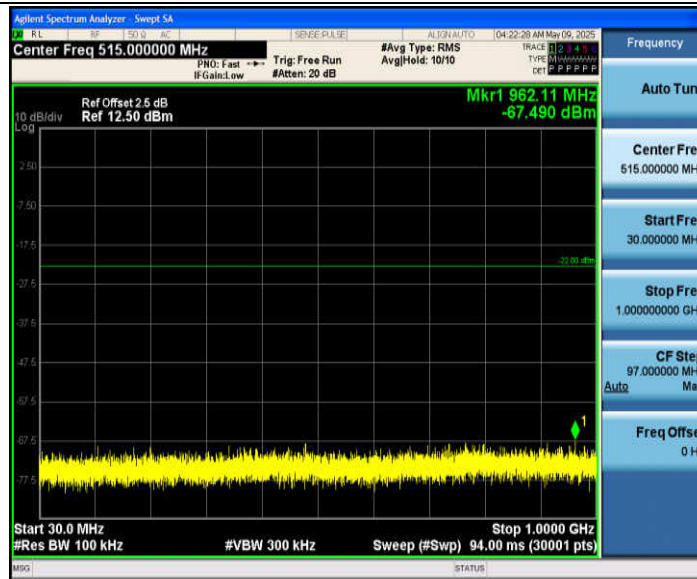
3DH5_Ant1_2402_1000~26500



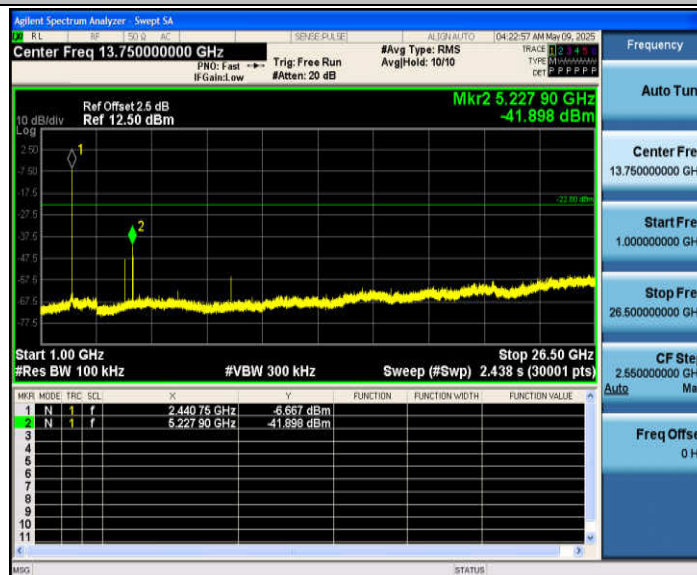
3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



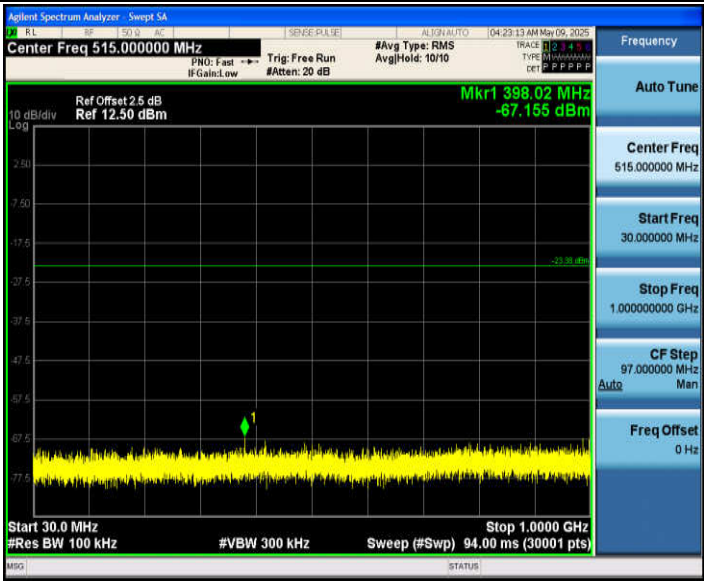
3DH5_Ant1_2441_1000~26500



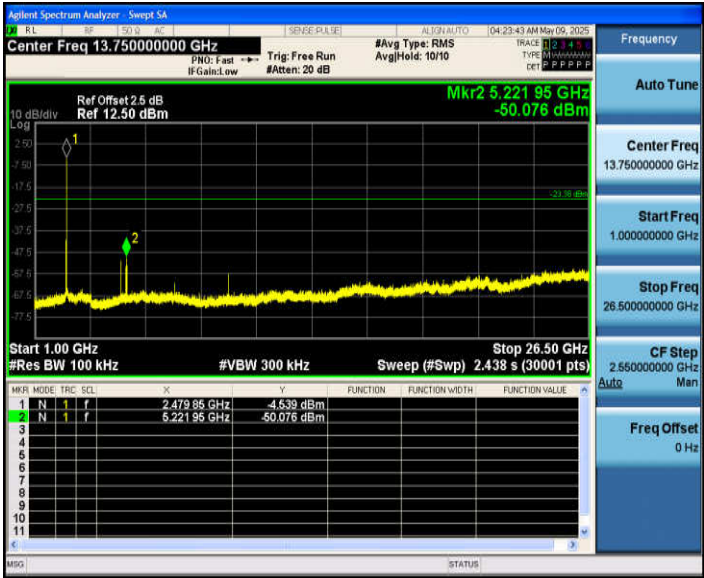
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

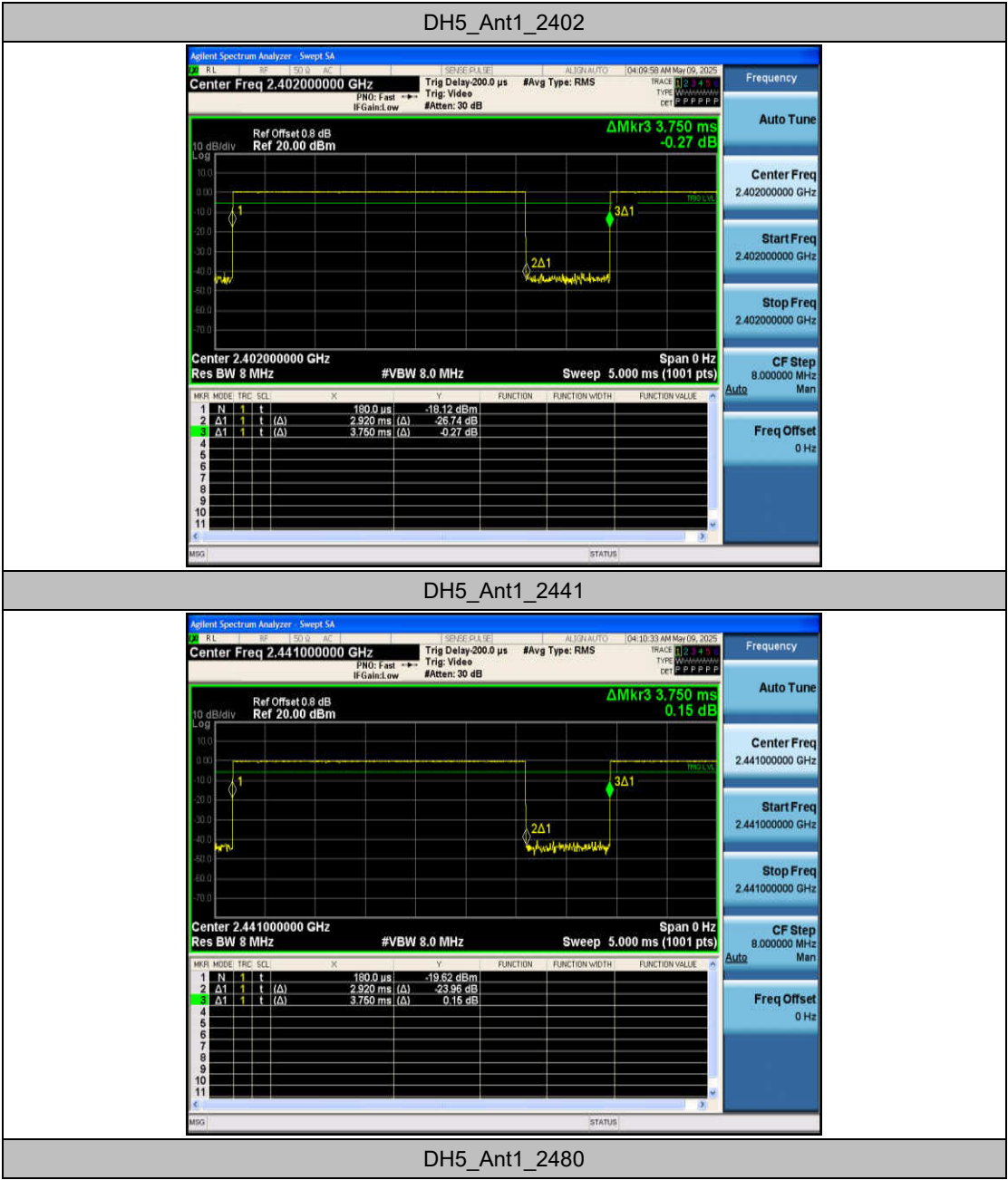


Appendix I: Duty Cycle

Test Result

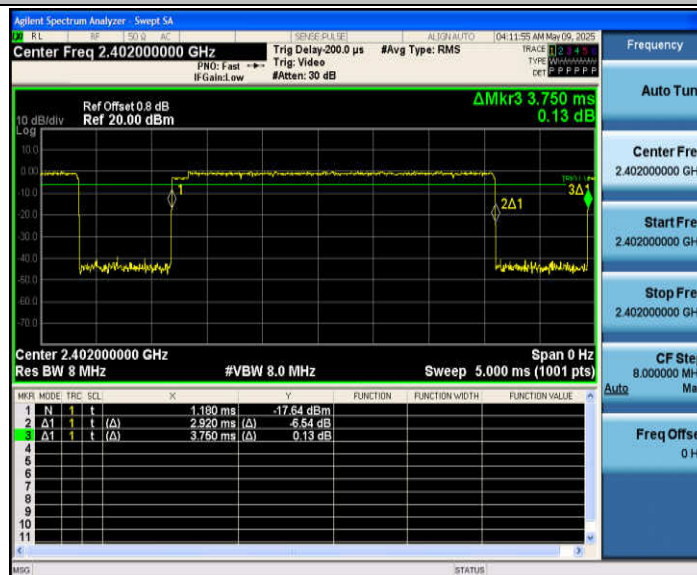
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---
3DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.92	3.75	77.87	1.09	---	---

Test Graphs

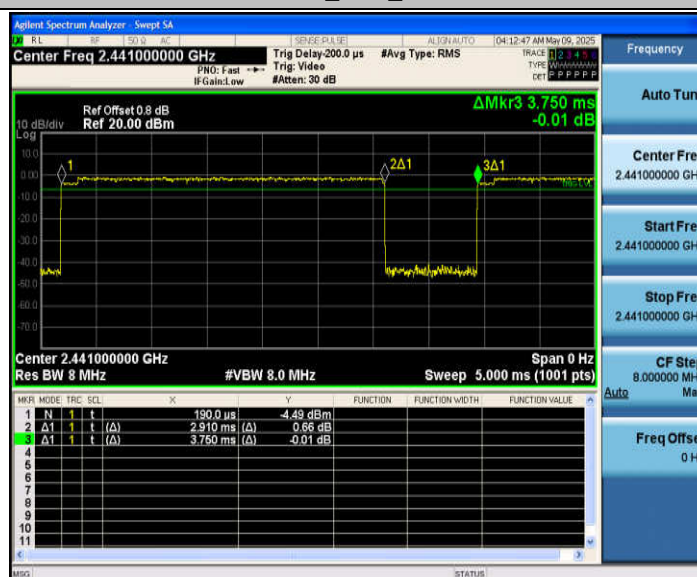




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

