

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: XMARI Guitar

Test Model: XMARI

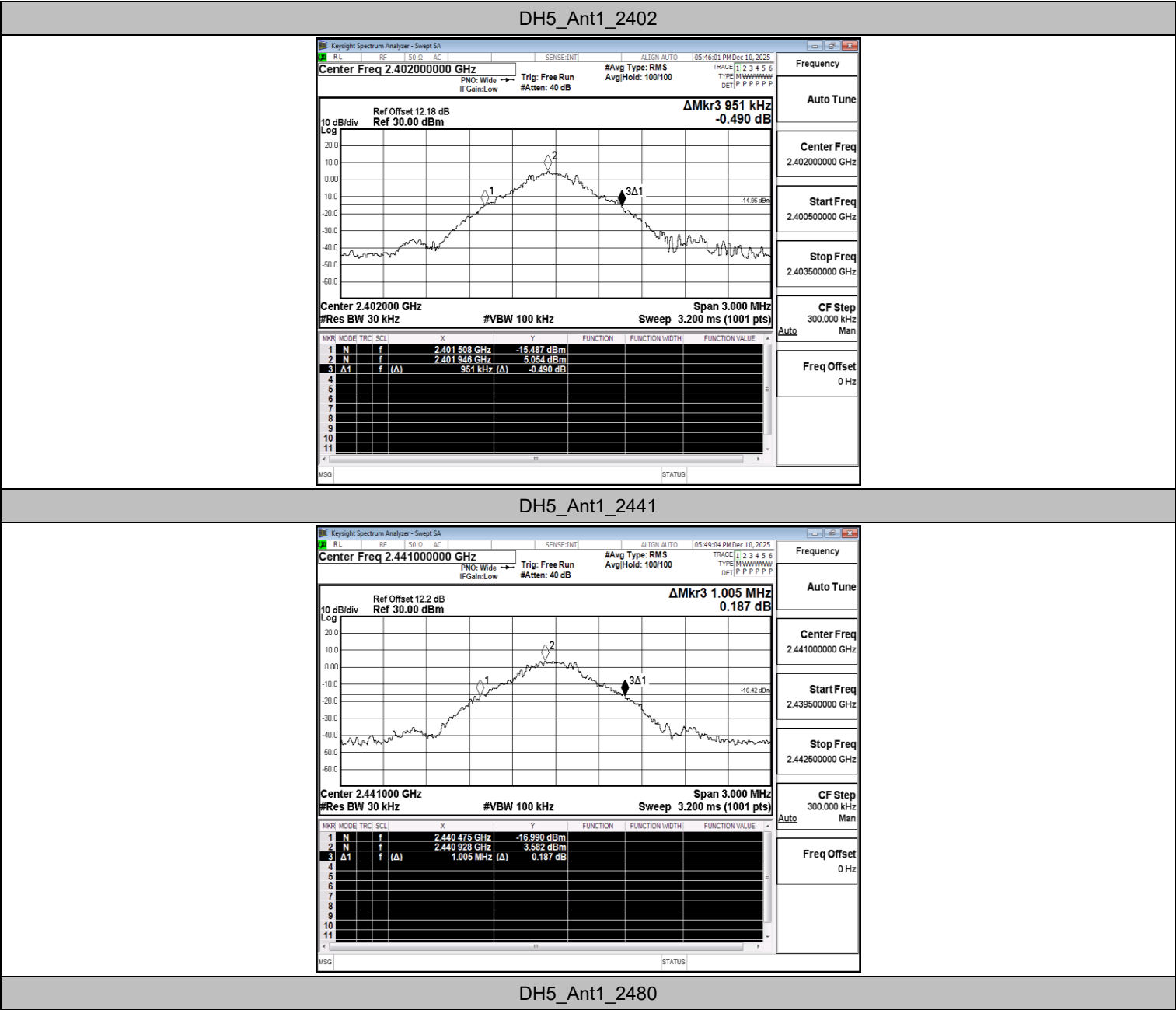
Environmental Conditions	
Temperature:	24.1°C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Yan Chen
Supervised by:	Fengliu Tang

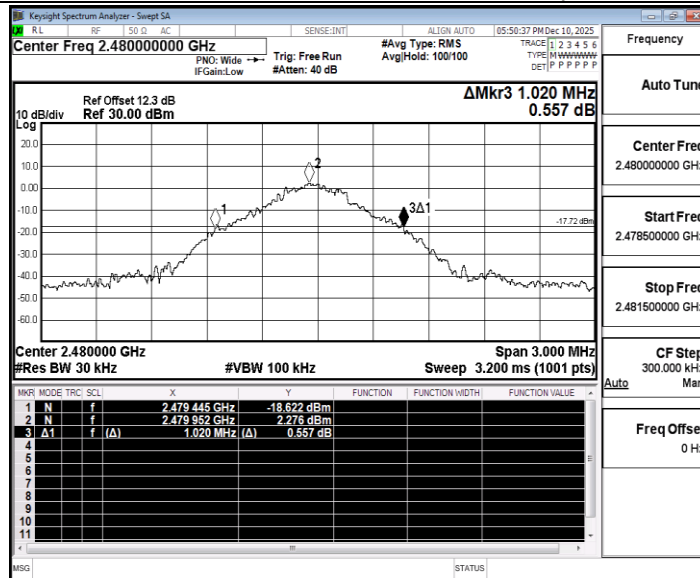
A.1 20dB Emission Bandwidth

Test Result

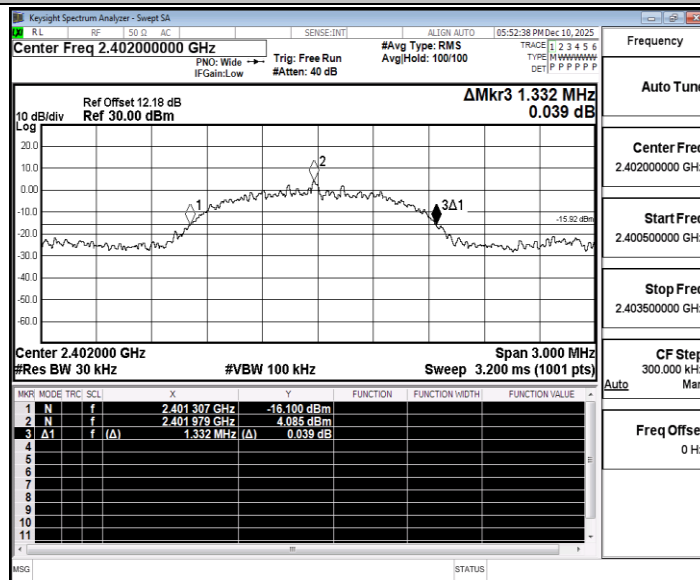
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.951	2401.508	2402.459	---	---
		2441	1.005	2440.475	2441.480	---	---
		2480	1.020	2479.445	2480.465	---	---
2DH5	Ant1	2402	1.332	2401.307	2402.639	---	---
		2441	1.320	2440.301	2441.621	---	---
		2480	1.335	2479.301	2480.636	---	---
3DH5	Ant1	2402	1.323	2401.304	2402.627	---	---
		2441	1.362	2440.295	2441.657	---	---
		2480	1.305	2479.313	2480.618	---	---

Test Graphs

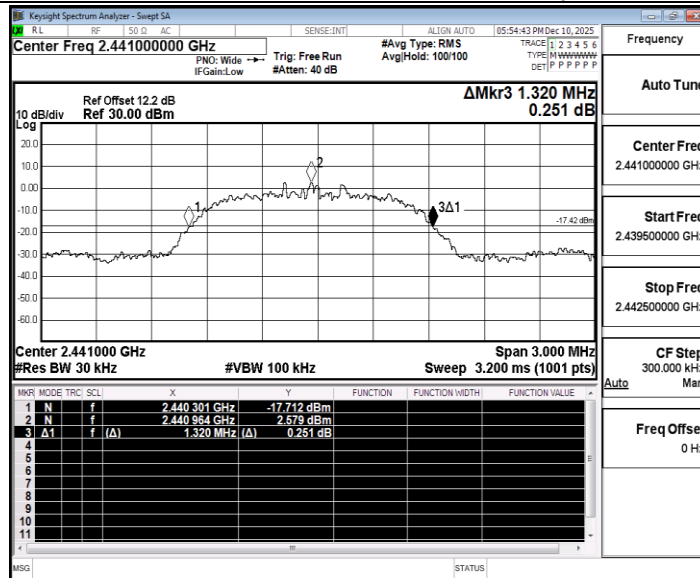




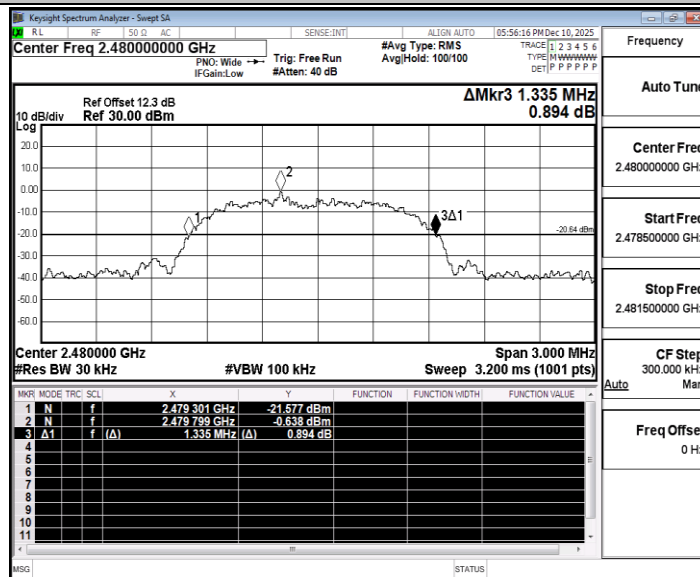
2DH5_Ant1_2402



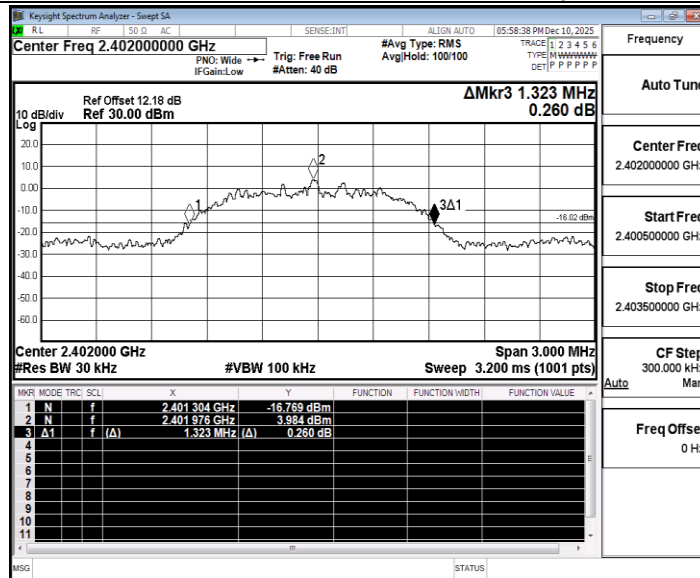
2DH5_Ant1_2441



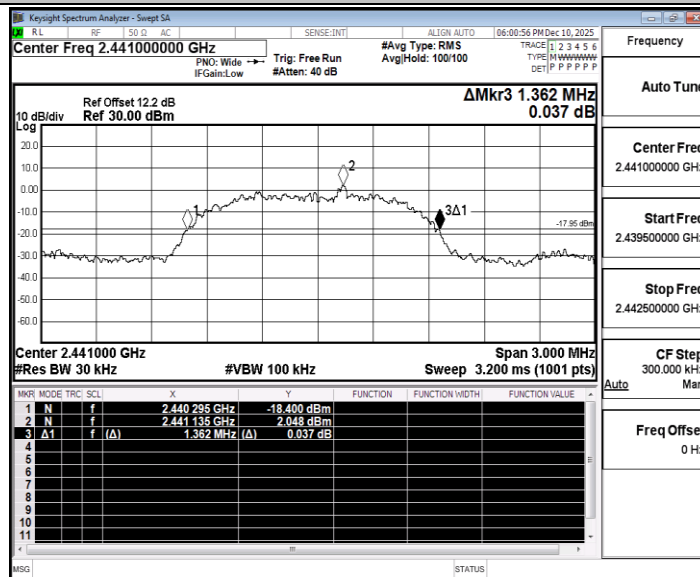
2DH5_Ant1_2480



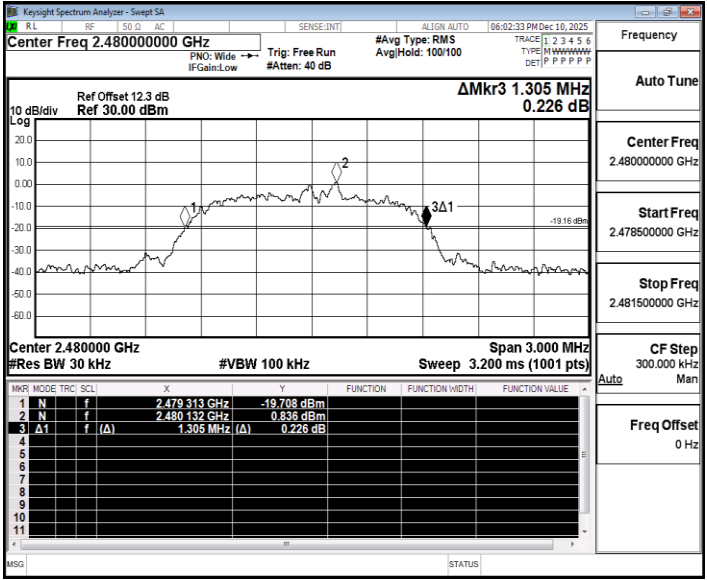
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

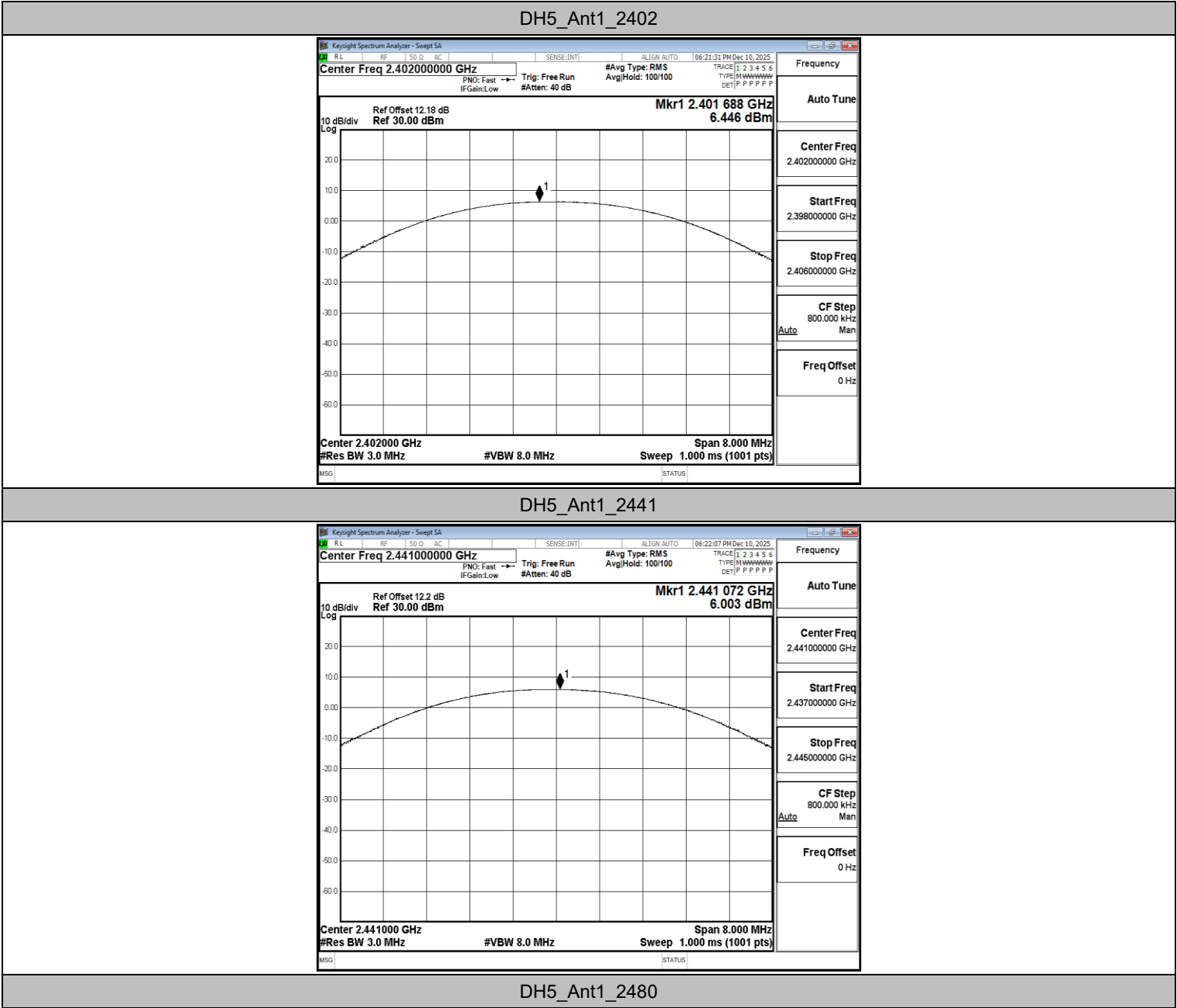


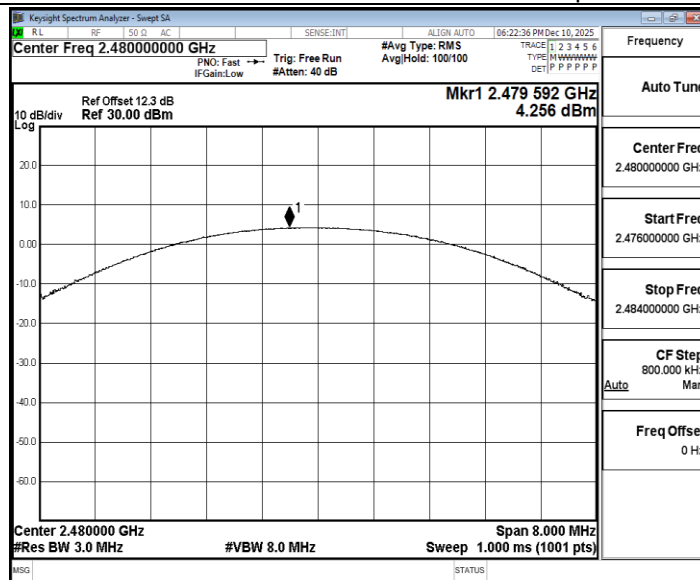
A.2 Maximum Peak Conducted Output Power

Test Result Peak

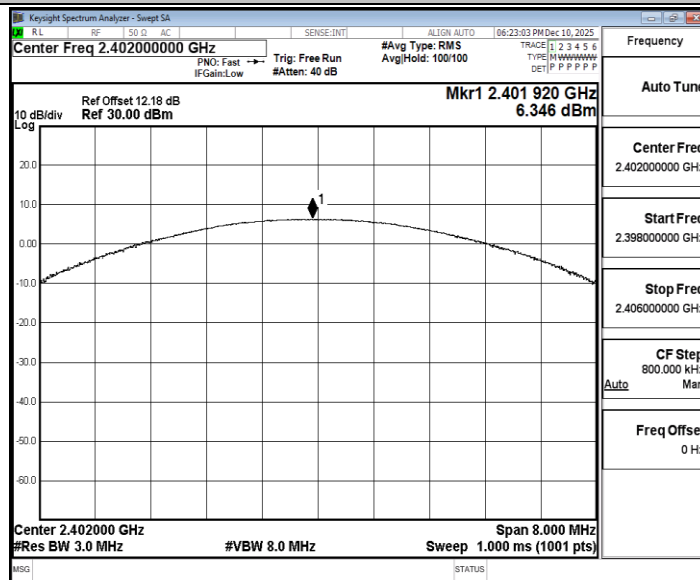
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	6.45	≤20.97	PASS
		2441	6.00	≤20.97	PASS
		2480	4.26	≤20.97	PASS
2DH5	Ant1	2402	6.35	≤20.97	PASS
		2441	5.97	≤20.97	PASS
		2480	4.25	≤20.97	PASS
3DH5	Ant1	2402	6.38	≤20.97	PASS
		2441	6.00	≤20.97	PASS
		2480	4.41	≤20.97	PASS

Test Graphs

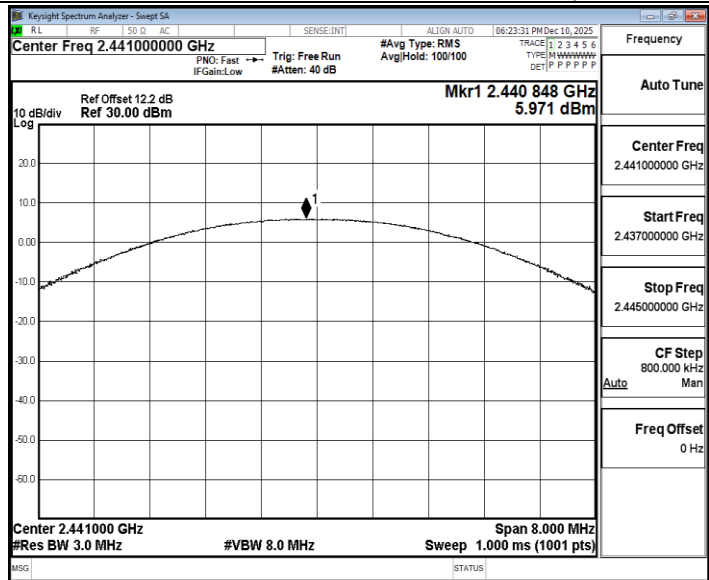




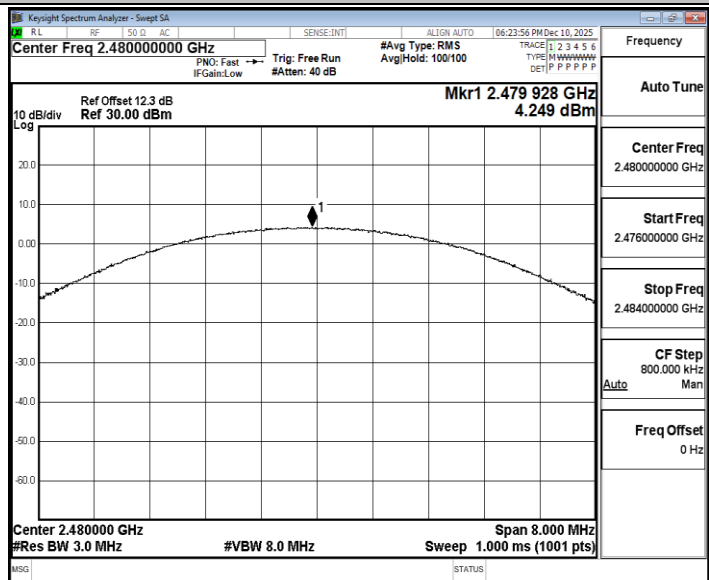
2DH5_Ant1_2402



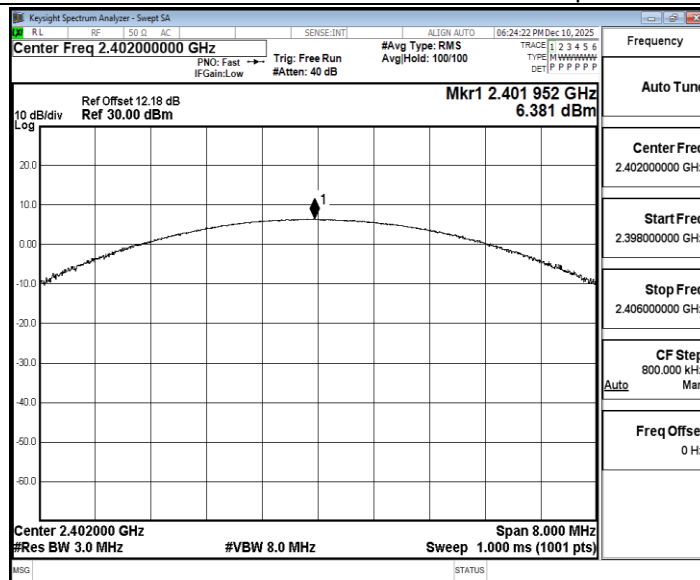
2DH5_Ant1_2441



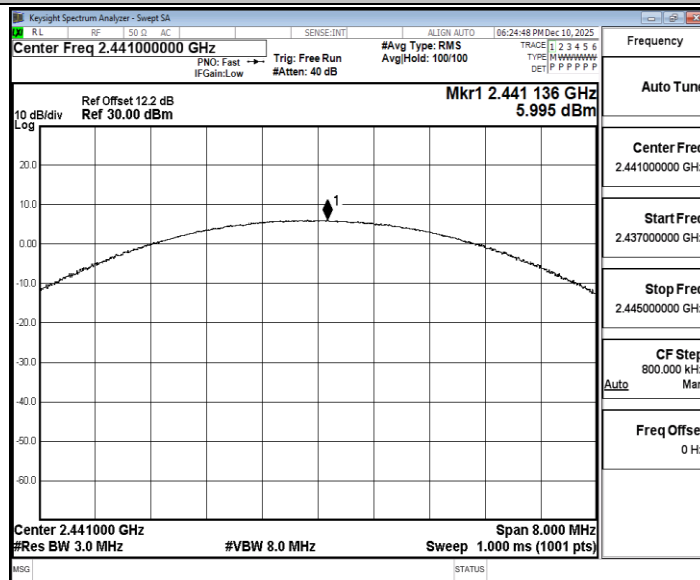
2DH5_Ant1_2480



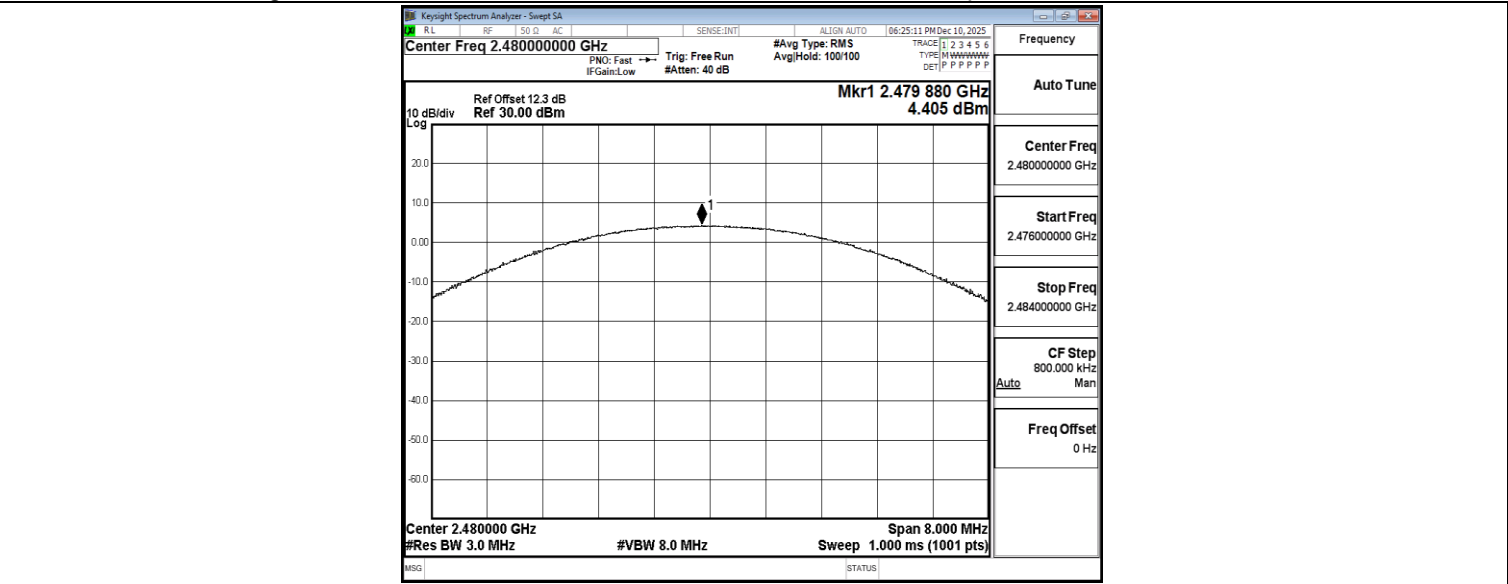
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

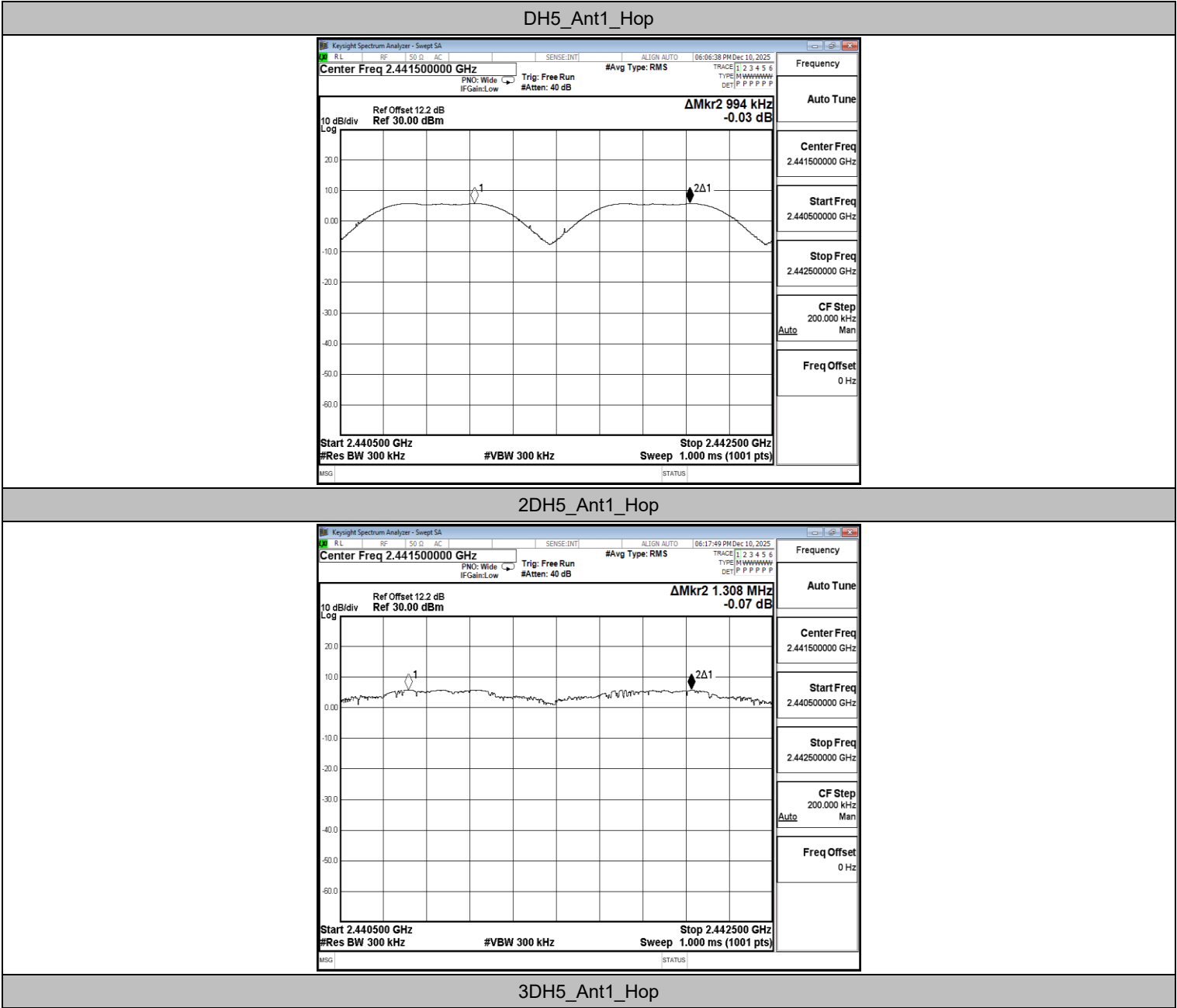


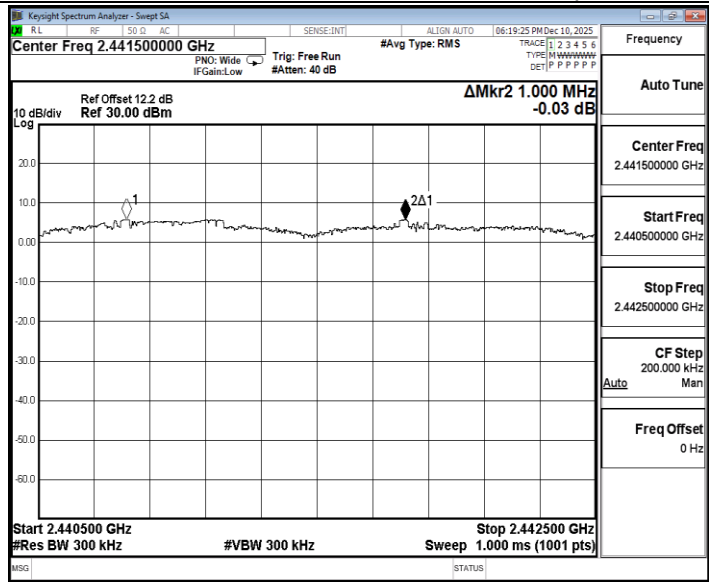
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.994	≥0.680	PASS
2DH5	Ant1	Hop	1.308	≥0.890	PASS
3DH5	Ant1	Hop	1	≥0.908	PASS

Test Graphs



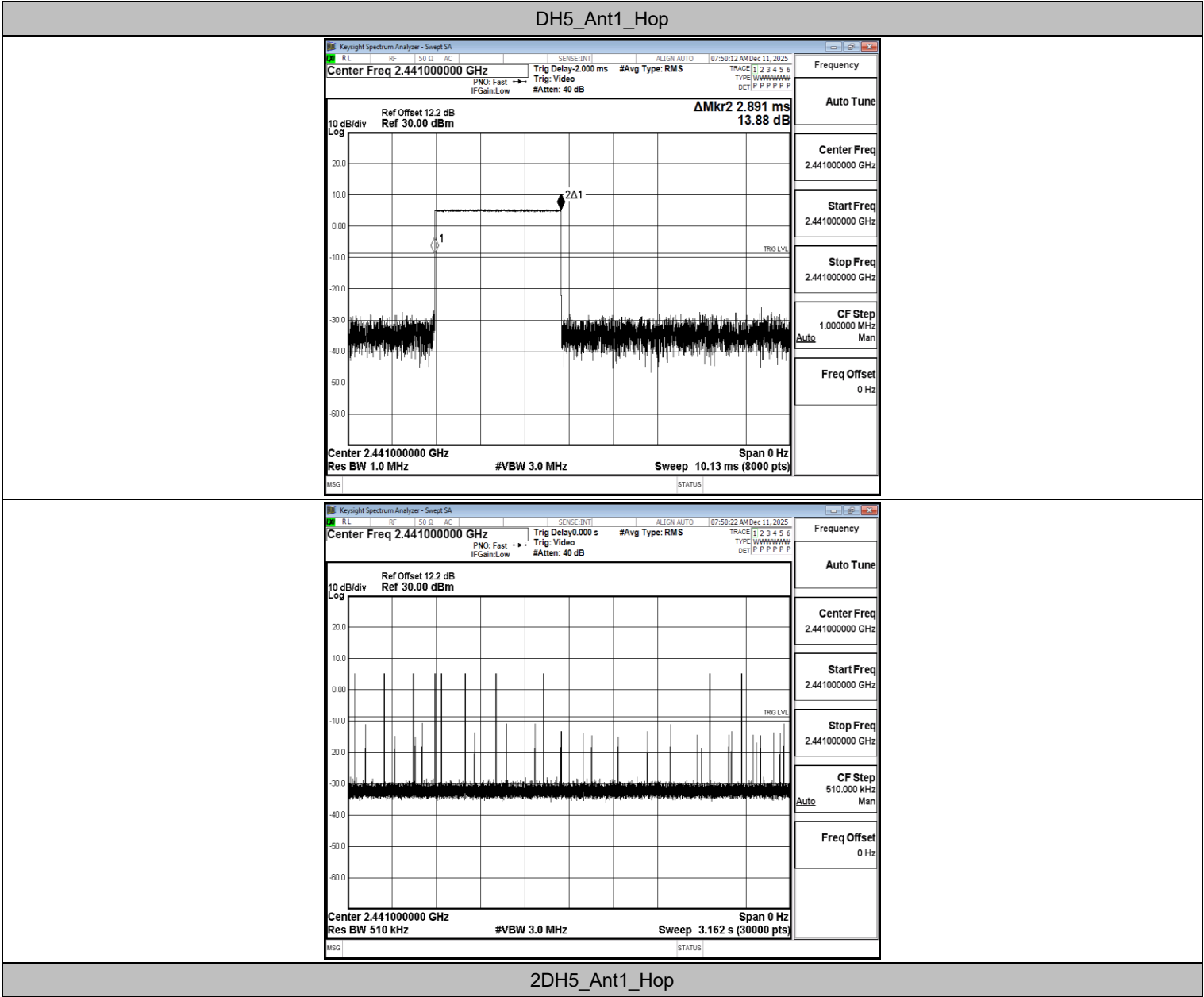


A.4 Time of occupancy

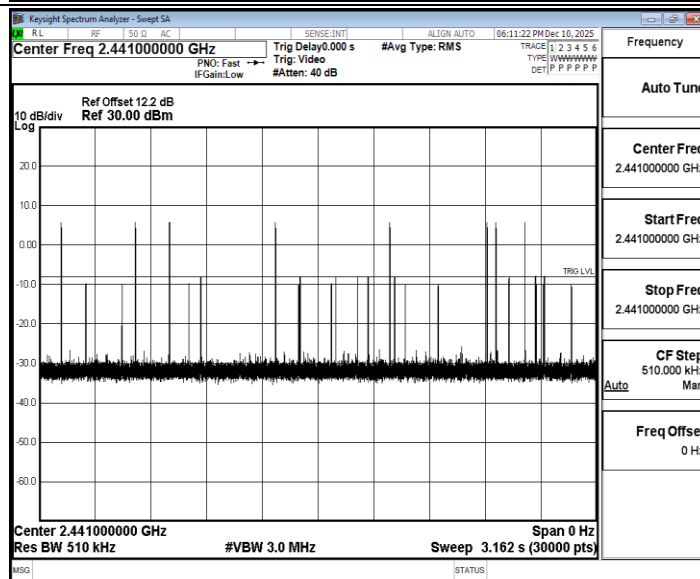
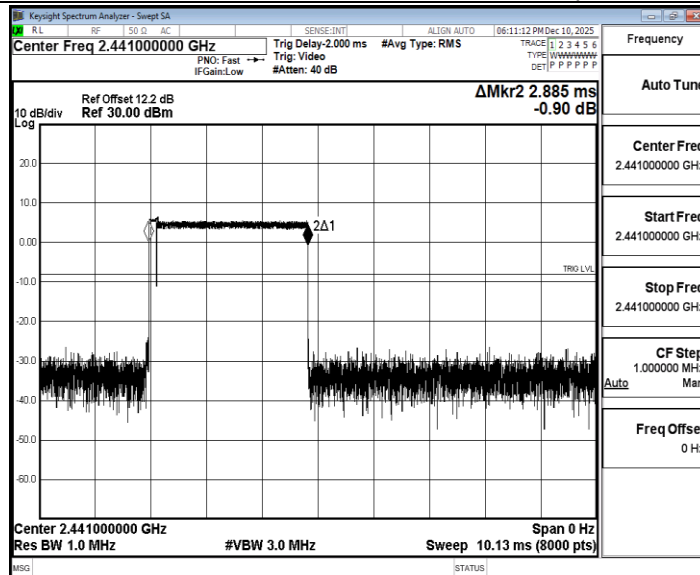
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.891	110	0.318	≤0.4	PASS
2DH5	Ant1	Hop	2.885	90	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.887	80	0.231	≤0.4	PASS

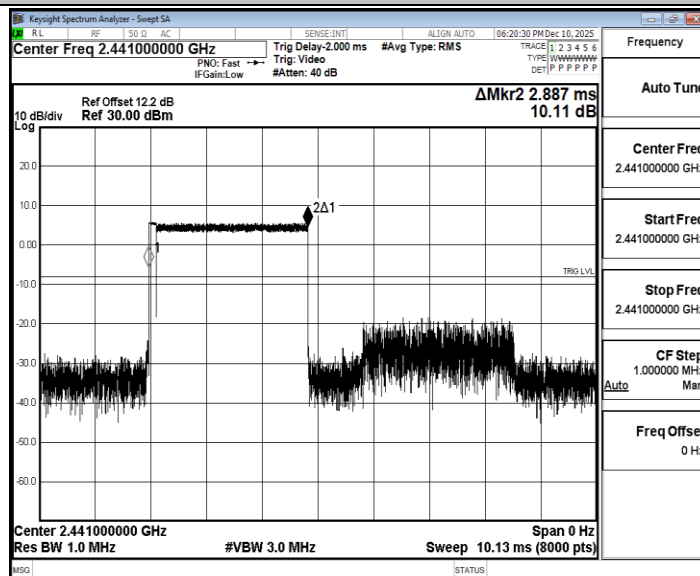
Test Graphs

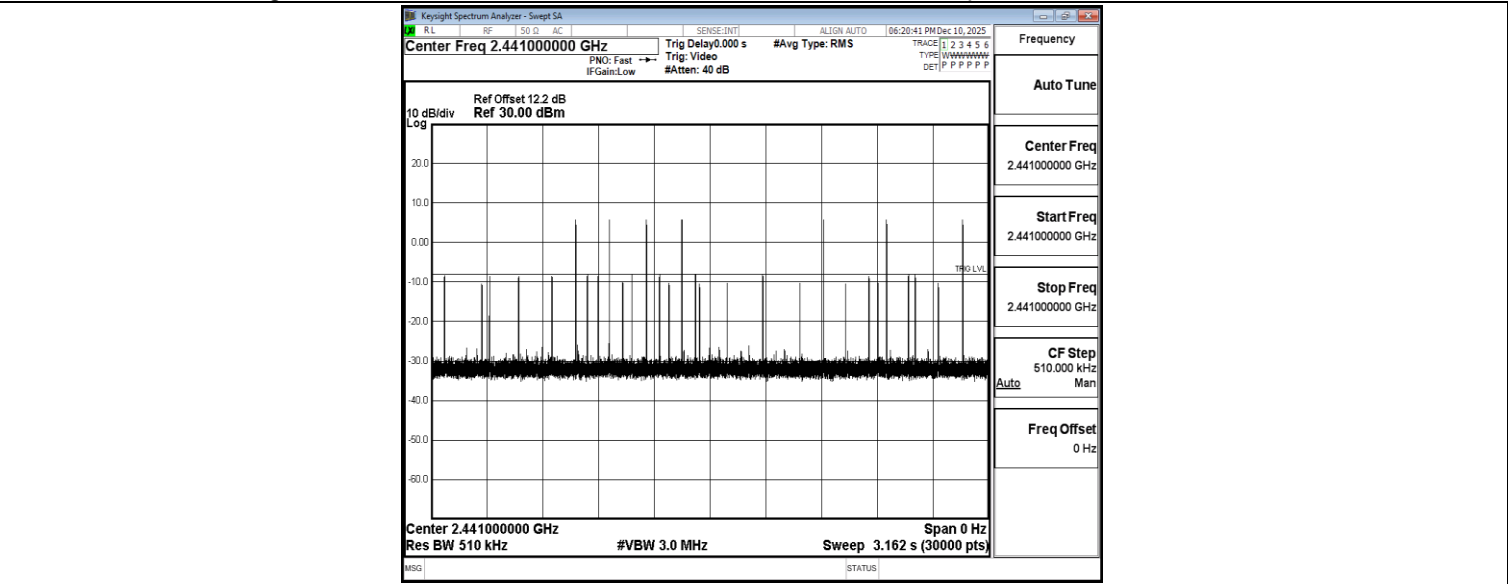


2DH5_Ant1_Hop



3DH5_Ant1_Hop



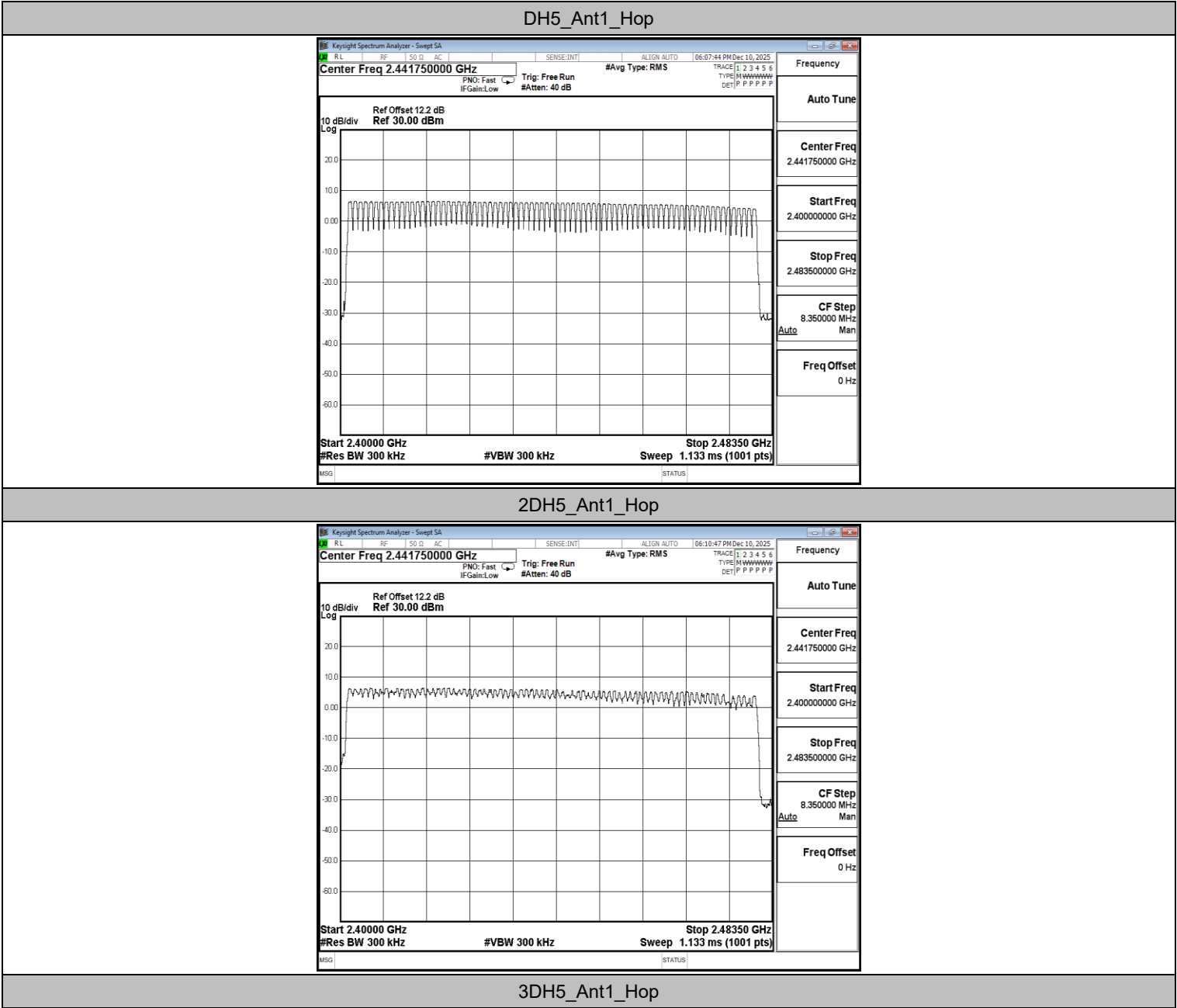


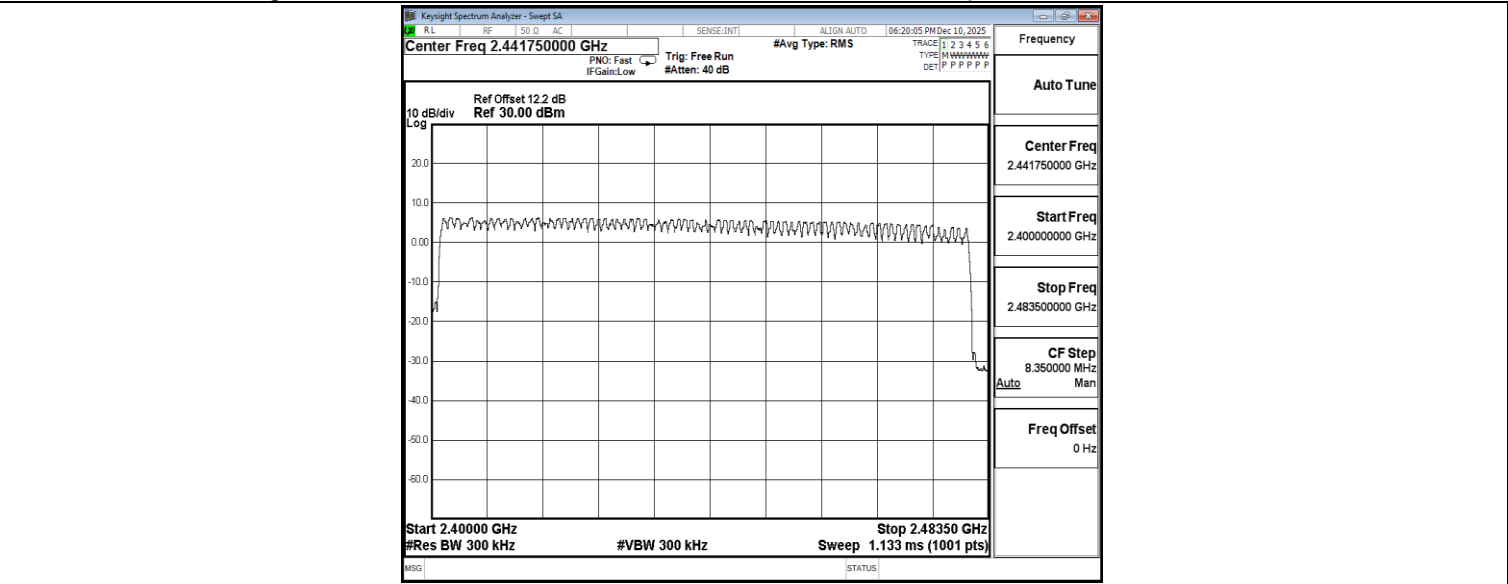
A.5 Number of hopping channels

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



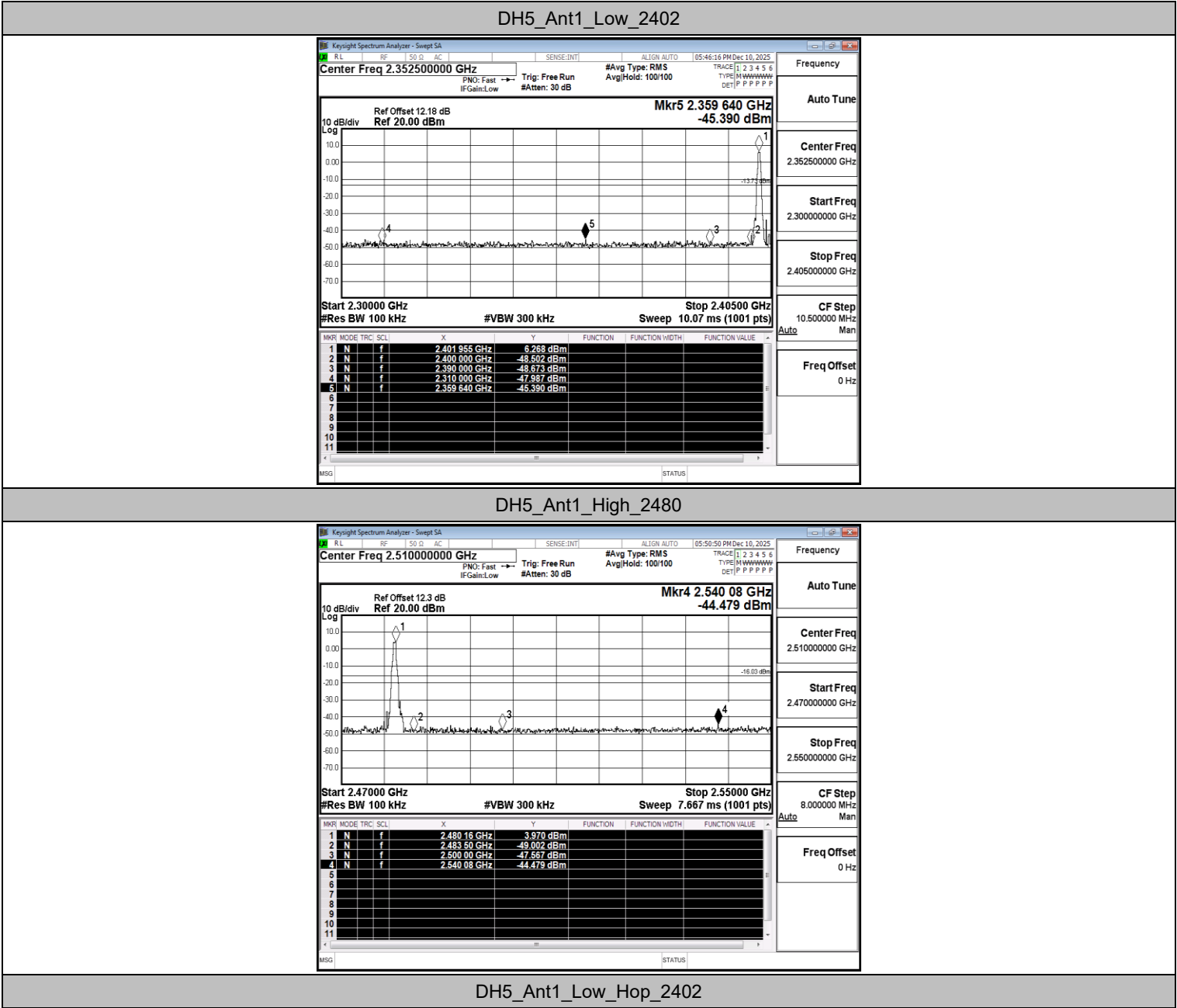


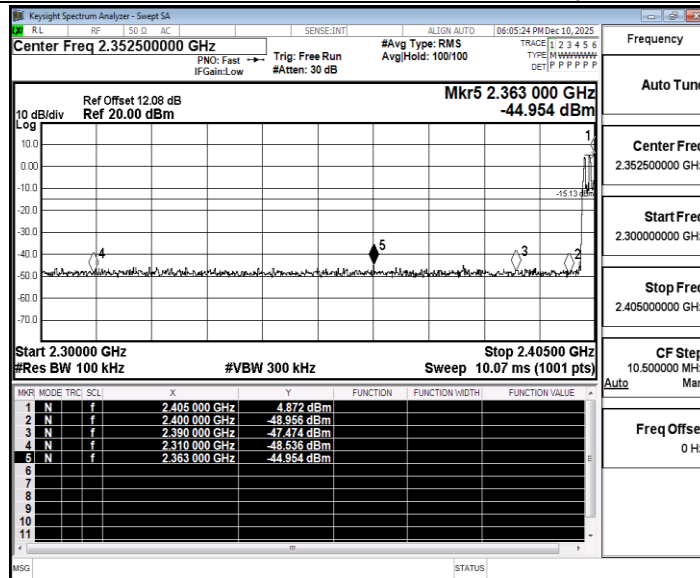
A.6 Band edge measurements

Test Result

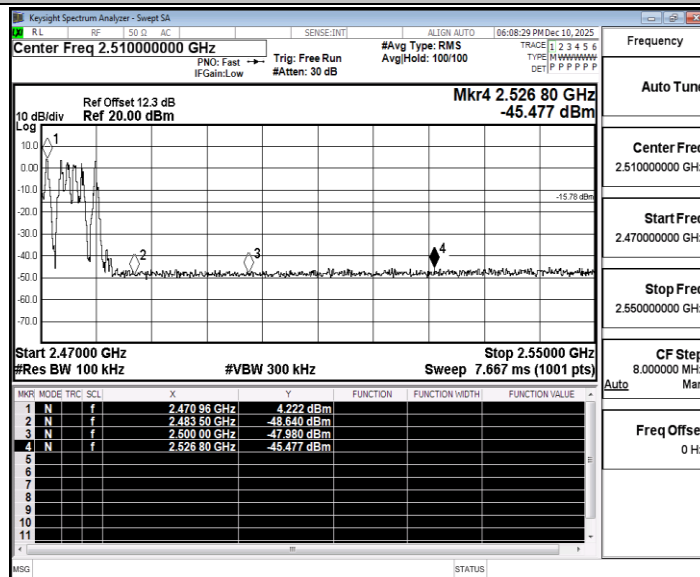
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	6.27	-45.39	≤ -13.73	PASS
		High	2480	3.97	-44.48	≤ -16.03	PASS
		Low	Hop_2402	4.87	-44.95	≤ -15.13	PASS
		High	Hop_2480	4.22	-45.48	≤ -15.78	PASS
2DH5	Ant1	Low	2402	5.56	-30.56	≤ -14.44	PASS
		High	2480	1.89	-45.28	≤ -18.11	PASS
		Low	Hop_2402	2.92	-35.94	≤ -17.08	PASS
		High	Hop_2480	-0.88	-44.65	≤ -20.88	PASS
3DH5	Ant1	Low	2402	6.20	-32.12	≤ -13.8	PASS
		High	2480	3.33	-45.32	≤ -16.67	PASS
		Low	Hop_2402	2.45	-45.8	≤ -17.55	PASS
		High	Hop_2480	-0.92	-45.03	≤ -20.92	PASS

Test Graphs

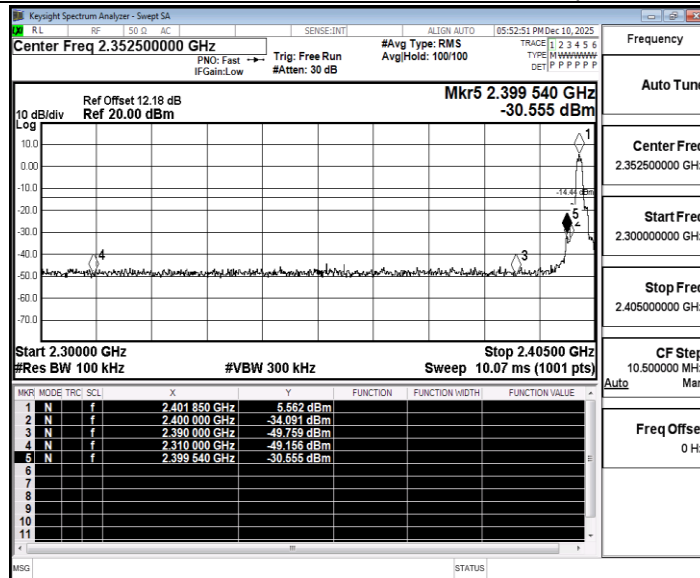




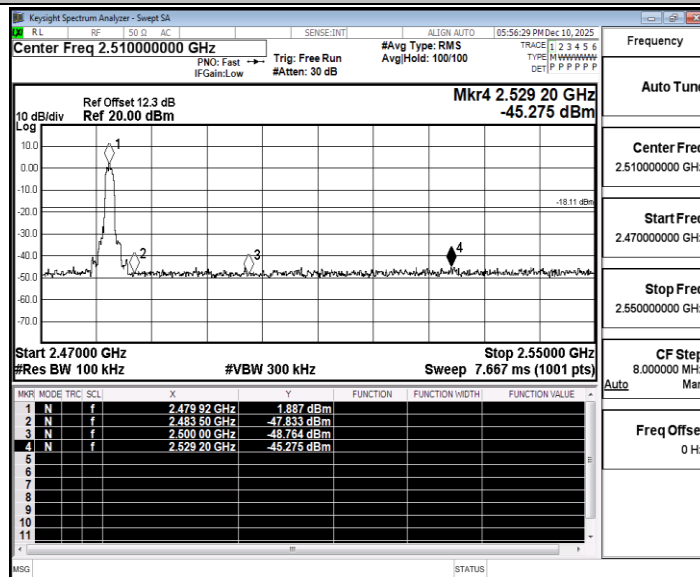
DH5_Ant1_High_Hop_2480



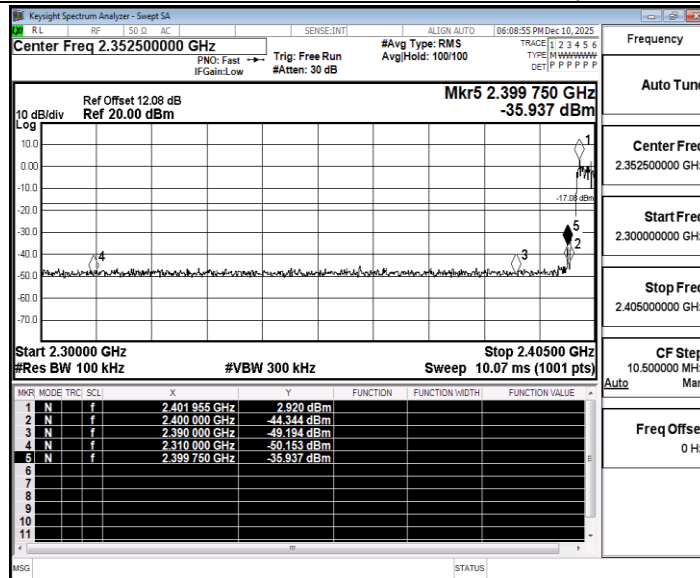
2DH5_Ant1_Low_2402



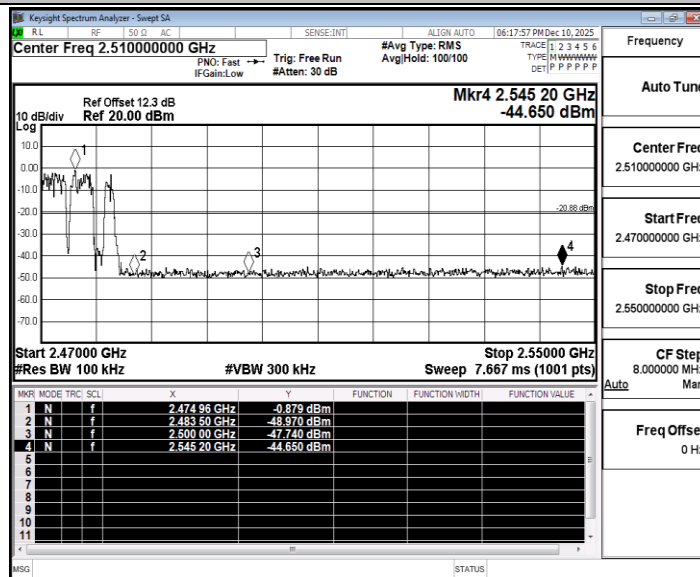
2DH5_Ant1_High_2480



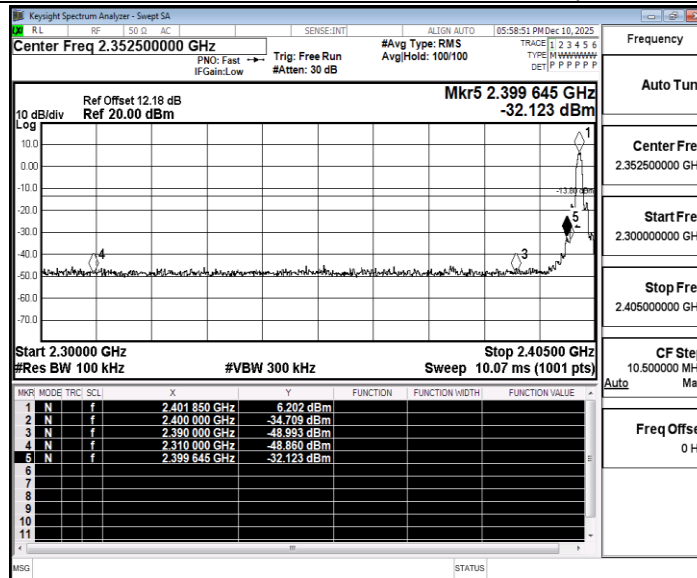
2DH5_Ant1_Low_Hop_2402



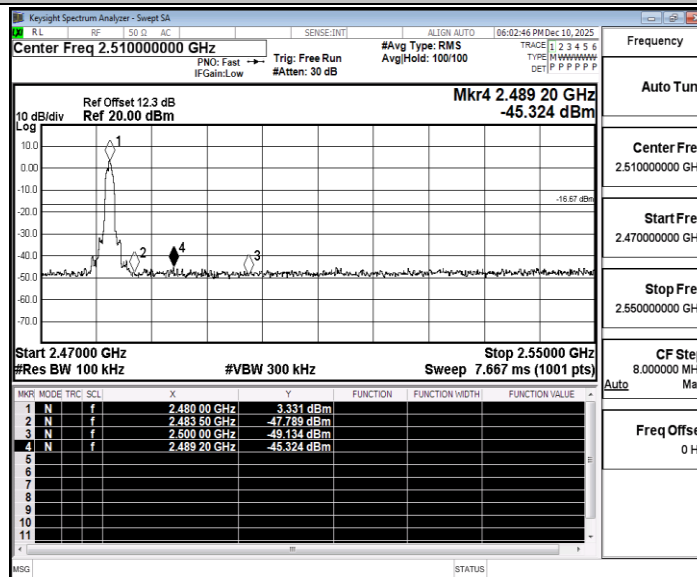
2DH5_Ant1_High_Hop_2480



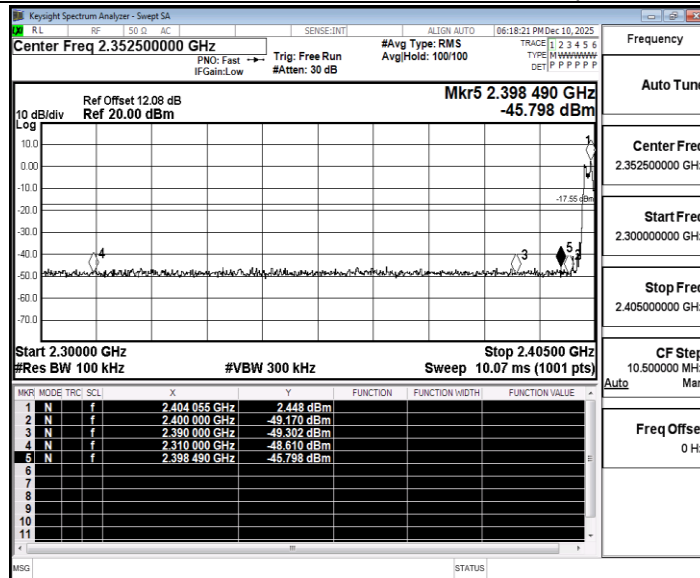
3DH5_Ant1_Low_2402



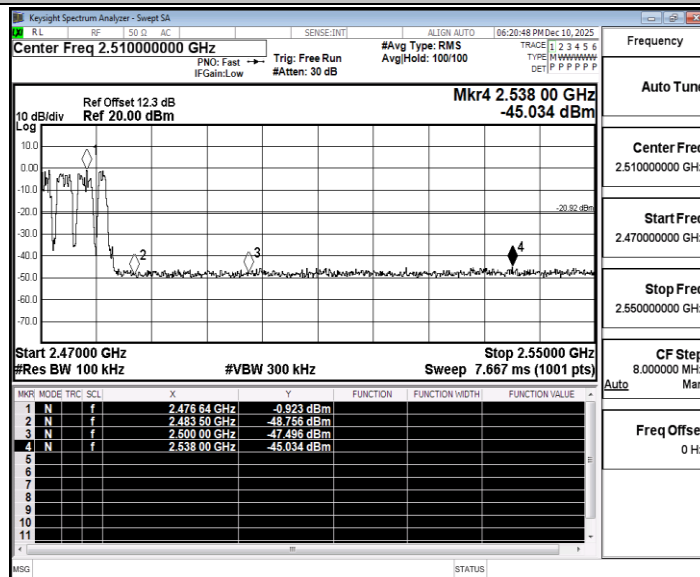
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	5.63	5.63	---	PASS
			30~1000	5.63	-46.1	≤-14.37	PASS
			1000~26500	5.63	-29.43	≤-14.37	PASS
		2441	Reference	4.98	4.98	---	PASS
			30~1000	4.98	-46.42	≤-15.02	PASS
			1000~26500	4.98	-29.22	≤-15.02	PASS
		2480	Reference	2.36	2.36	---	PASS
			30~1000	2.36	-47.27	≤-17.64	PASS
			1000~26500	2.36	-35.14	≤-17.64	PASS
2DH5	Ant1	2402	Reference	3.06	3.06	---	PASS
			30~1000	3.06	-49.83	≤-16.94	PASS
			1000~26500	3.06	-32.05	≤-16.94	PASS
		2441	Reference	3.34	3.34	---	PASS
			30~1000	3.34	-51.05	≤-16.66	PASS
			1000~26500	3.34	-34.11	≤-16.66	PASS
		2480	Reference	-0.23	-0.23	---	PASS
			30~1000	-0.23	-51.36	≤-20.23	PASS
			1000~26500	-0.23	-39.34	≤-20.23	PASS
3DH5	Ant1	2402	Reference	4.43	4.43	---	PASS
			30~1000	4.43	-51.74	≤-15.57	PASS
			1000~26500	4.43	-32.74	≤-15.57	PASS
		2441	Reference	2.45	2.45	---	PASS
			30~1000	2.45	-48.21	≤-17.55	PASS
			1000~26500	2.45	-32.93	≤-17.55	PASS
		2480	Reference	-0.72	-0.72	---	PASS
			30~1000	-0.72	-52.53	≤-20.72	PASS
			1000~26500	-0.72	-35.07	≤-20.72	PASS