

Appendix A

RF Test Data for BT(Conducted Measurement)

Product Name: AI Voice Recorder

Test Model: M1

Environmental Conditions

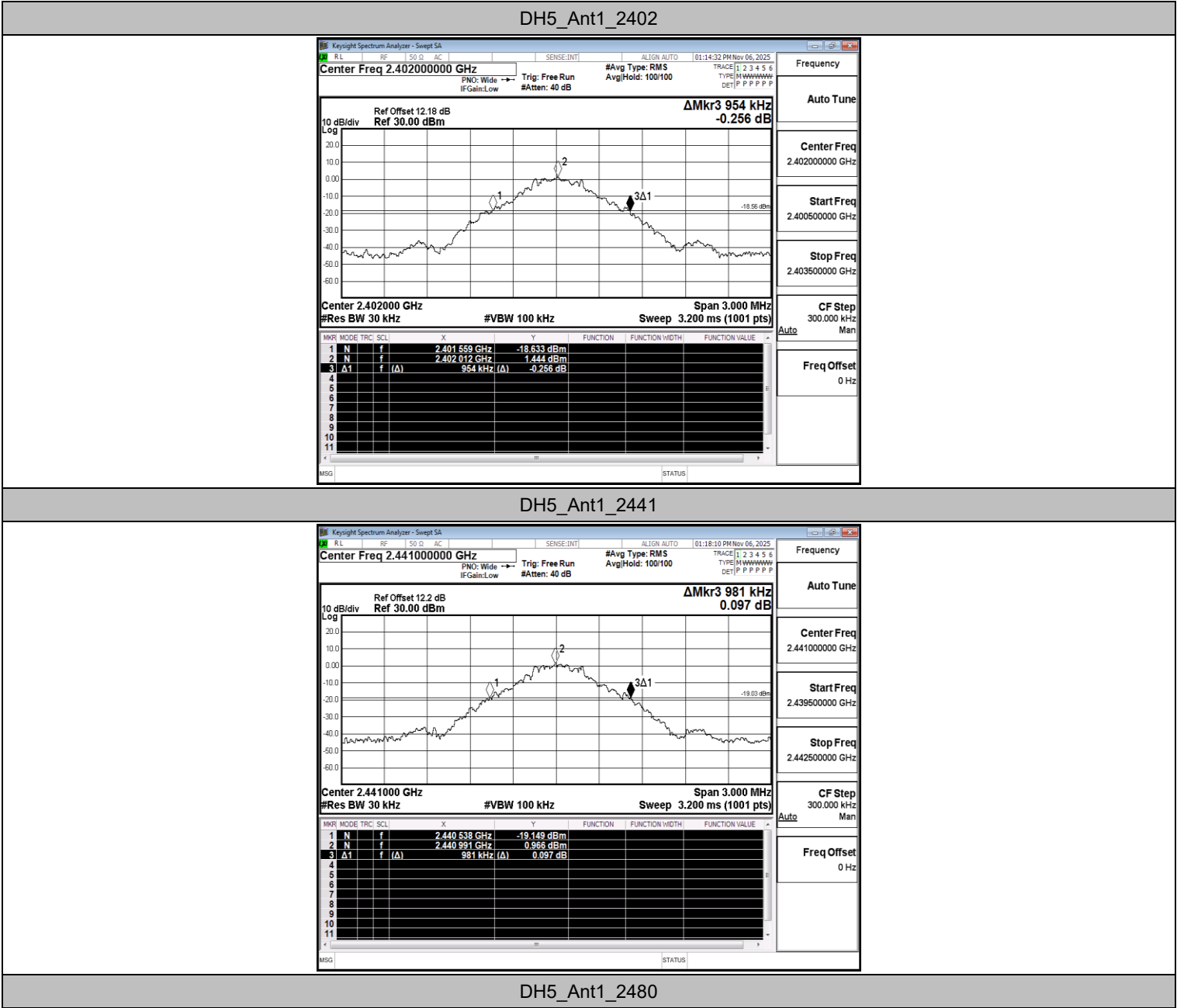
Temperature:	23.8°C
Relative Humidity:	52.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Suichao Lai
Supervised by:	Yan Chen

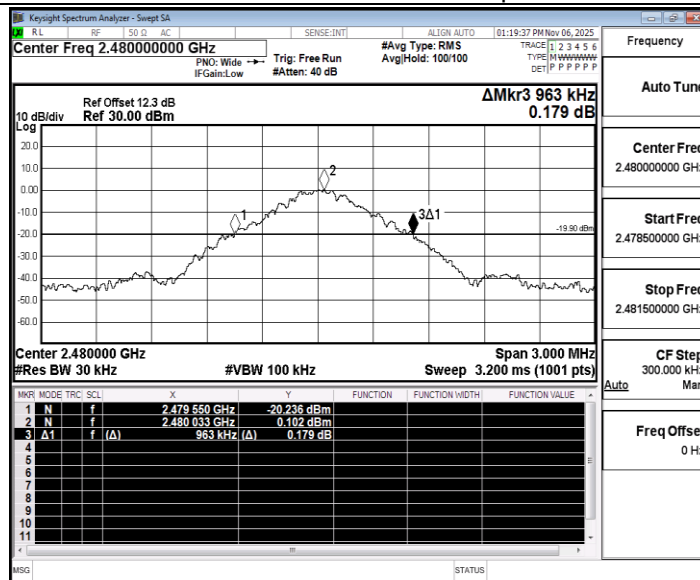
A.20dB Emission Bandwidth

Test Result

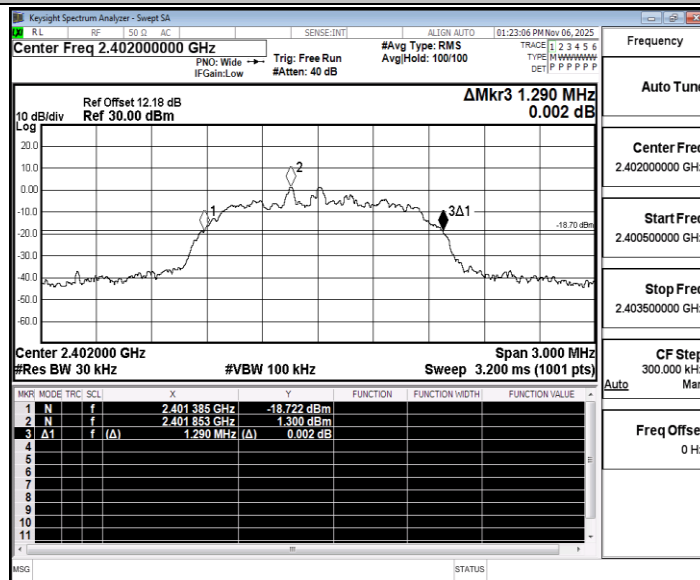
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.559	2402.513	---	---
		2441	0.981	2440.538	2441.519	---	---
		2480	0.963	2479.550	2480.513	---	---
2DH5	Ant1	2402	1.290	2401.385	2402.675	---	---
		2441	1.284	2440.388	2441.672	---	---
		2480	1.287	2479.388	2480.675	---	---
3DH5	Ant1	2402	1.320	2401.379	2402.699	---	---
		2441	1.320	2440.367	2441.687	---	---
		2480	1.272	2479.370	2480.642	---	---

Test Graphs

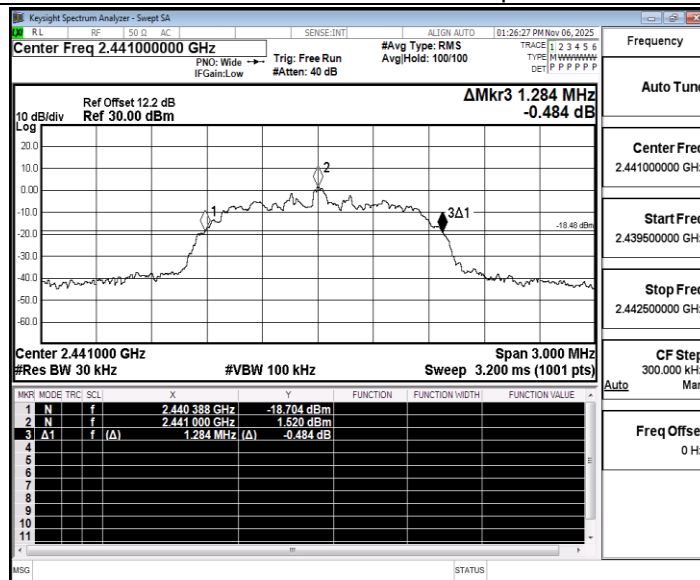




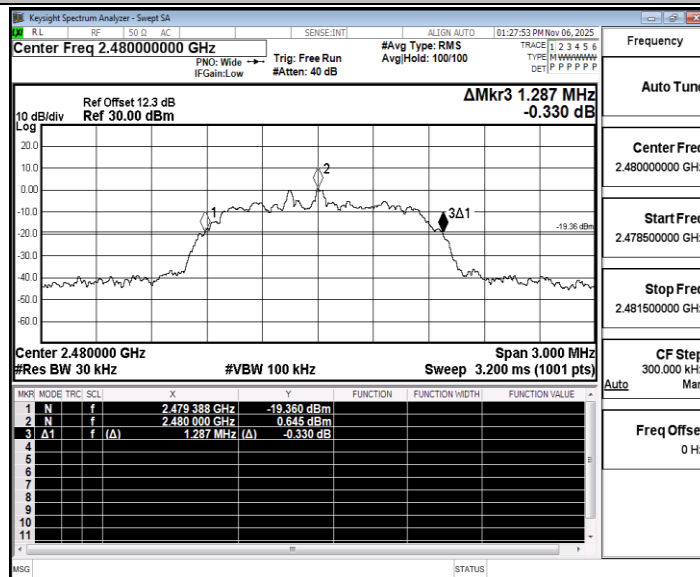
2DH5_Ant1_2402



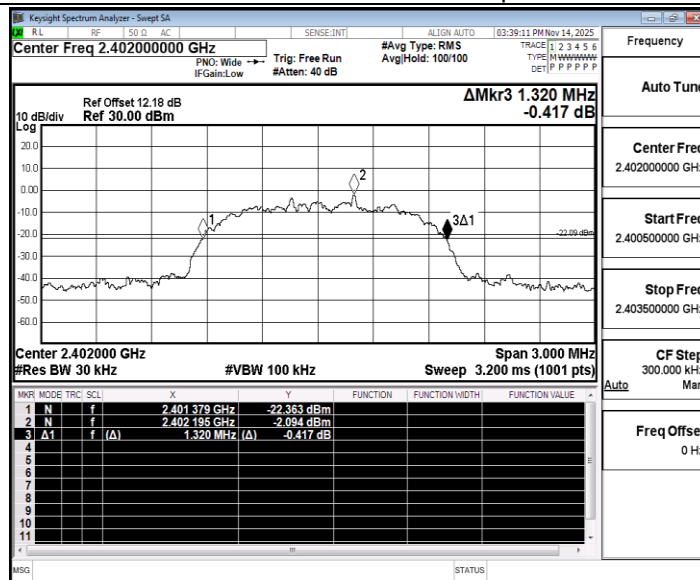
2DH5_Ant1_2441



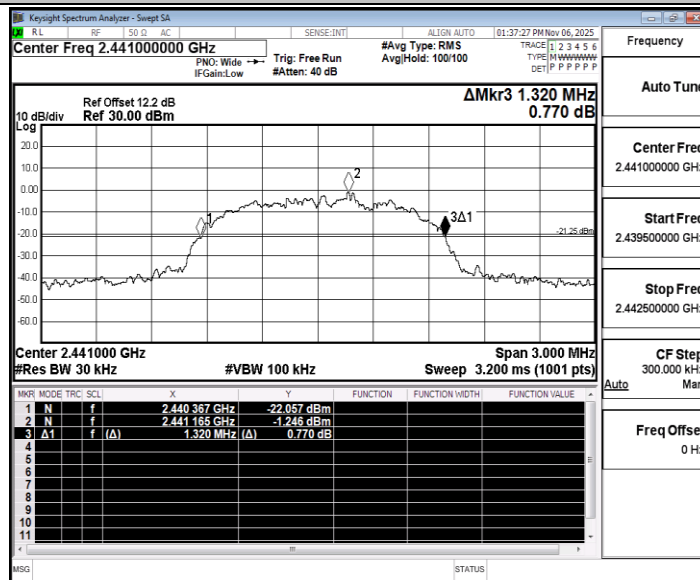
2DH5_Ant1_2480



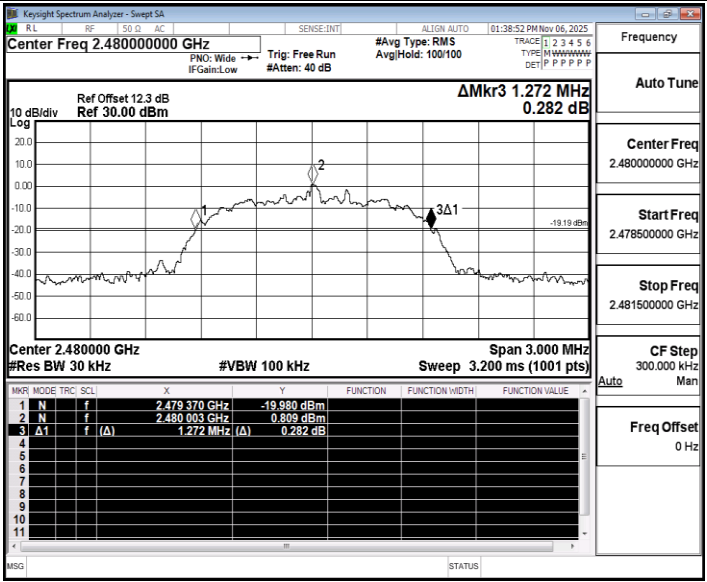
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

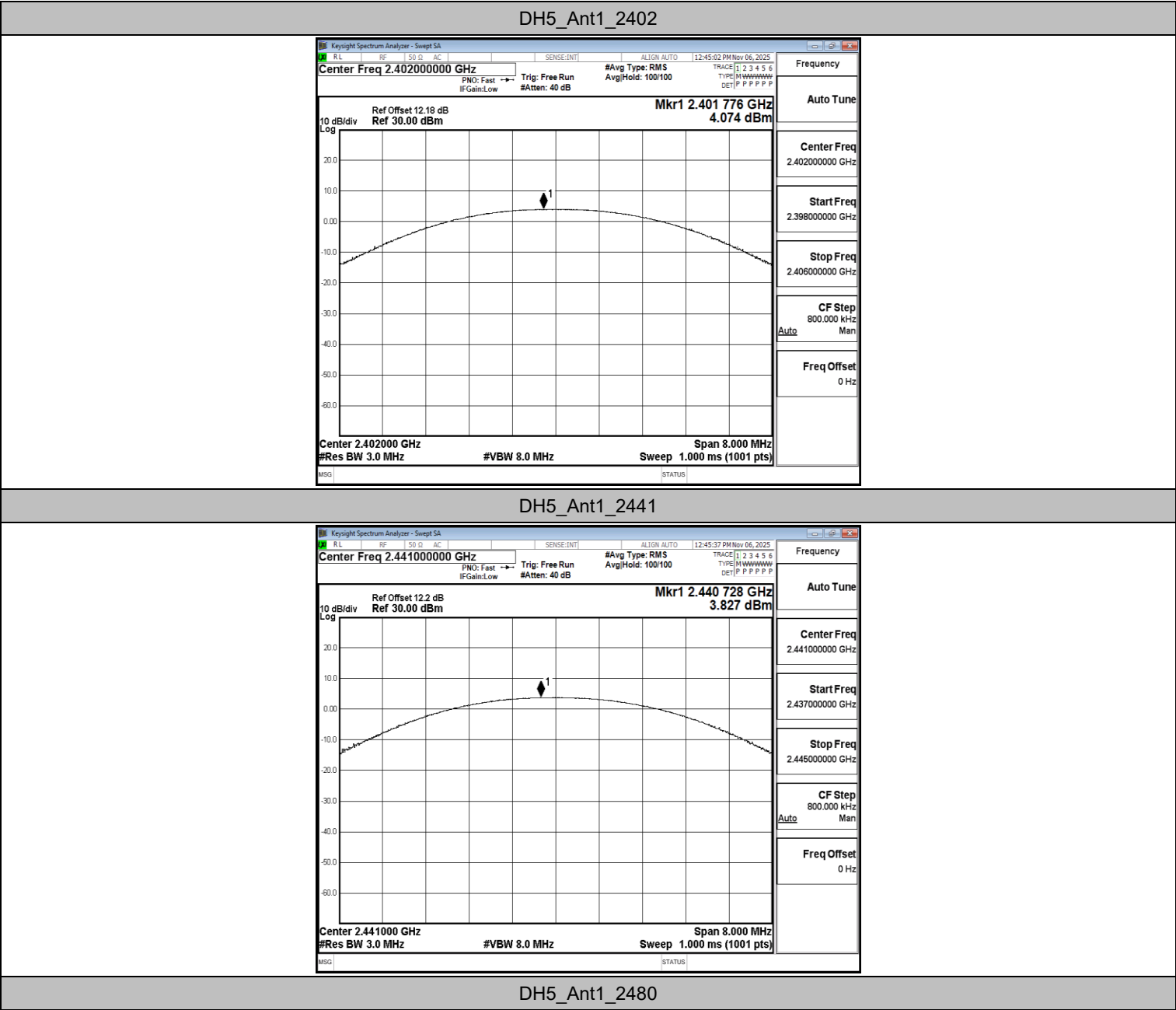


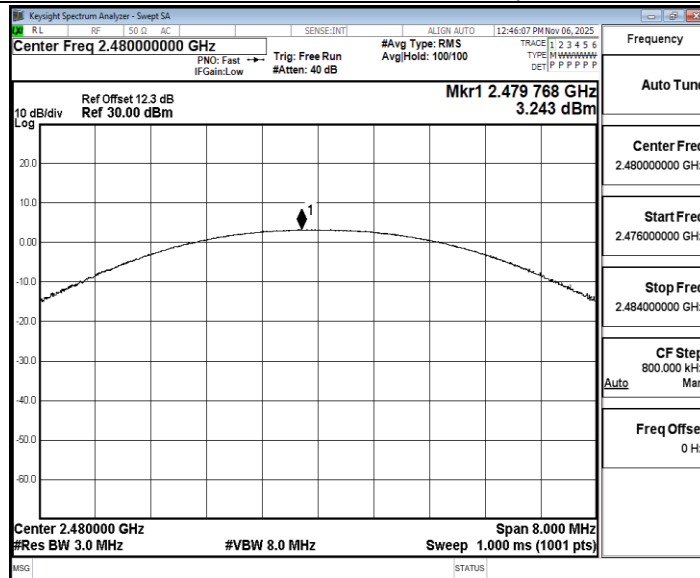
A.2: Maximum Peak conducted output power

Test Result Peak

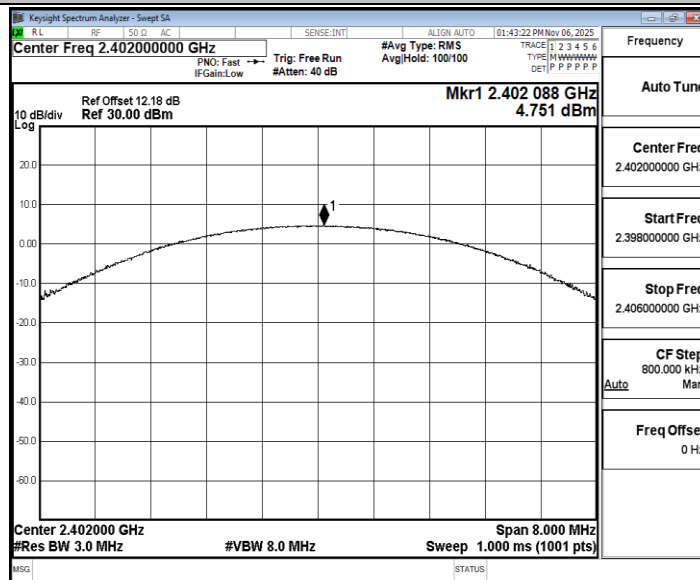
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	4.07	≤20.97	PASS
		2441	3.83	≤20.97	PASS
		2480	3.24	≤20.97	PASS
2DH5	Ant1	2402	4.75	≤20.97	PASS
		2441	4.39	≤20.97	PASS
		2480	3.80	≤20.97	PASS
3DH5	Ant1	2402	5.14	≤20.97	PASS
		2441	4.92	≤20.97	PASS
		2480	4.32	≤20.97	PASS

Test Graphs

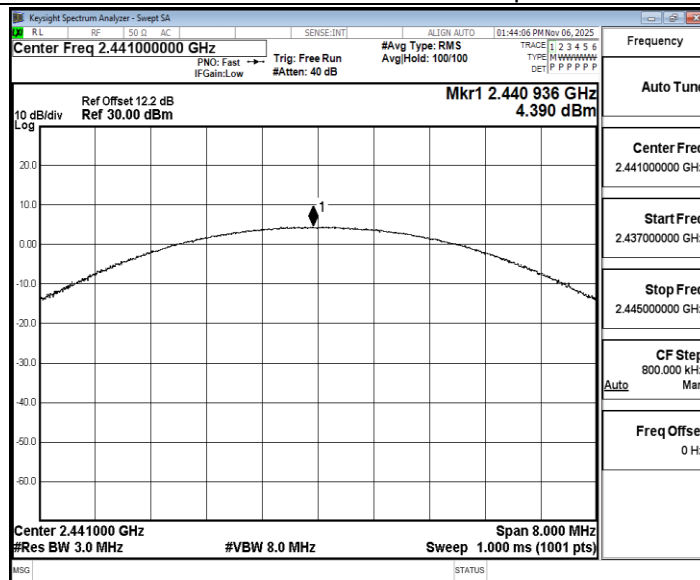




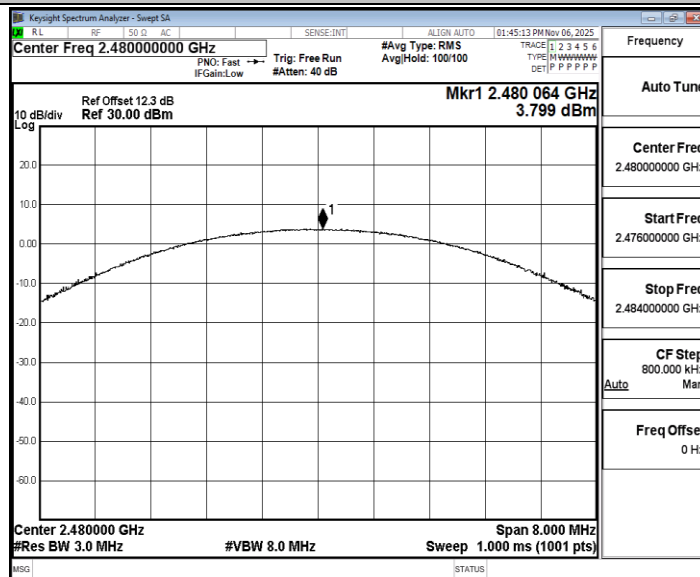
2DH5_Ant1_2402



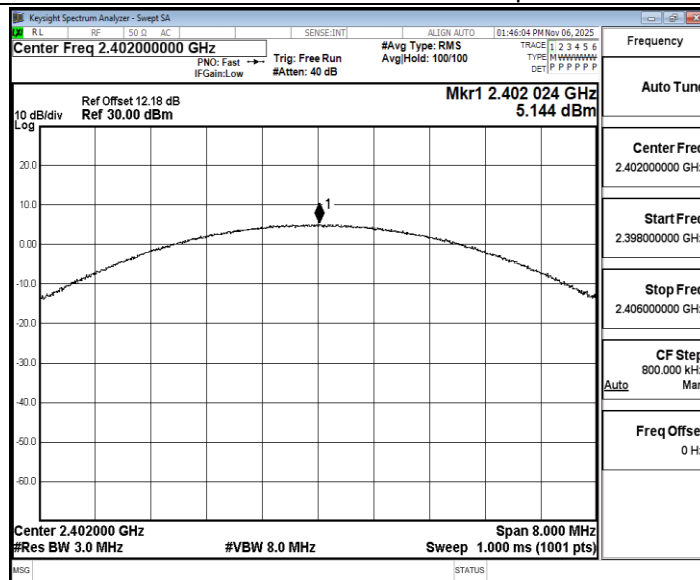
2DH5_Ant1_2441



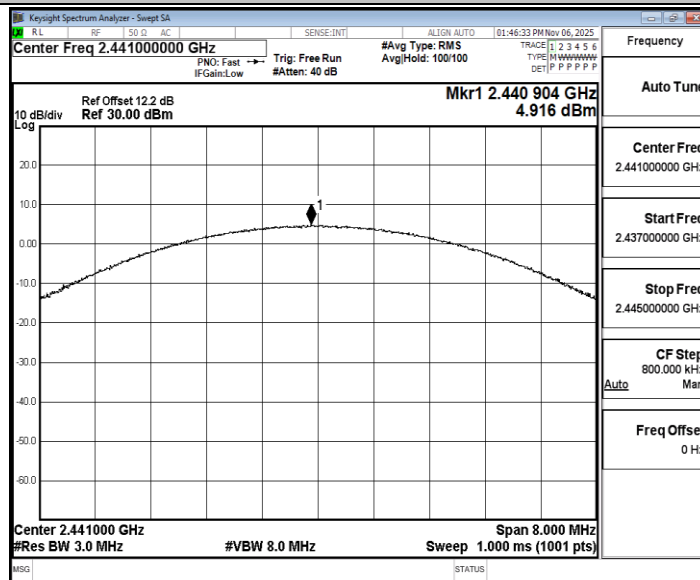
2DH5_Ant1_2480



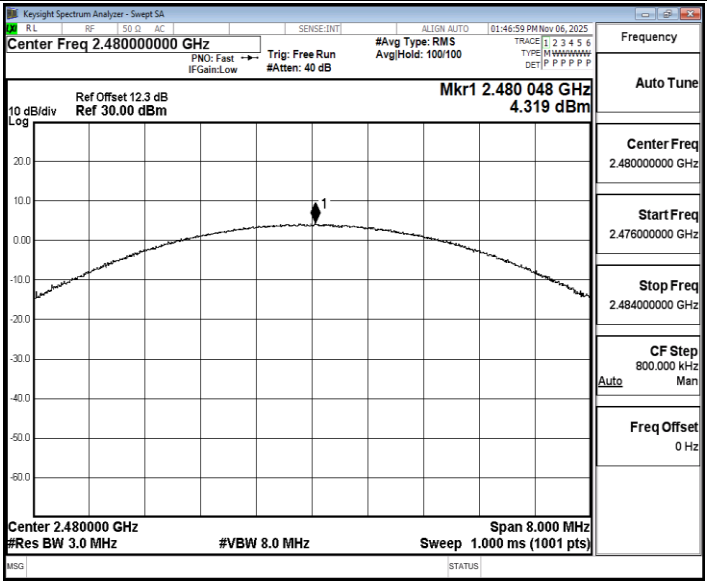
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

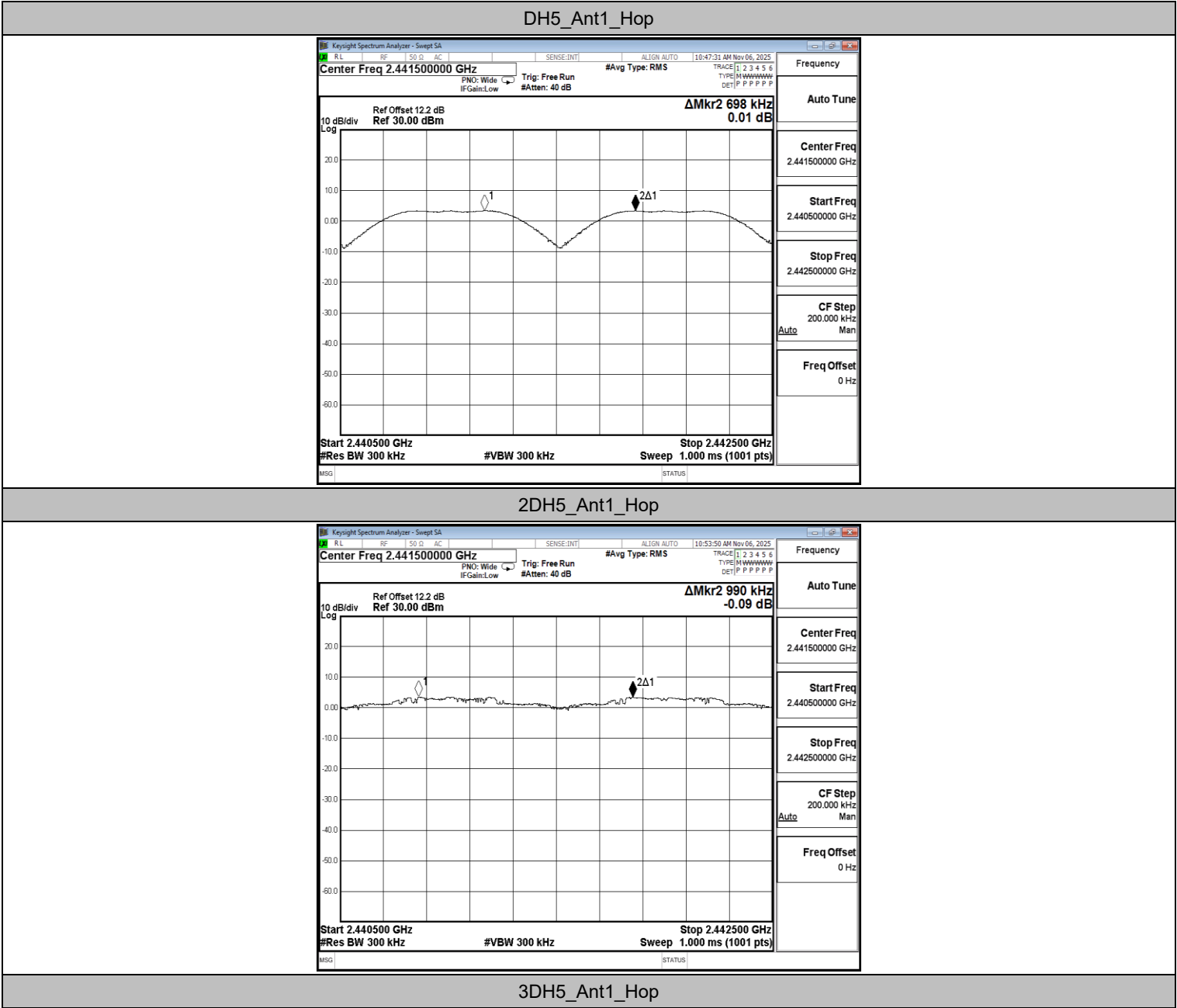


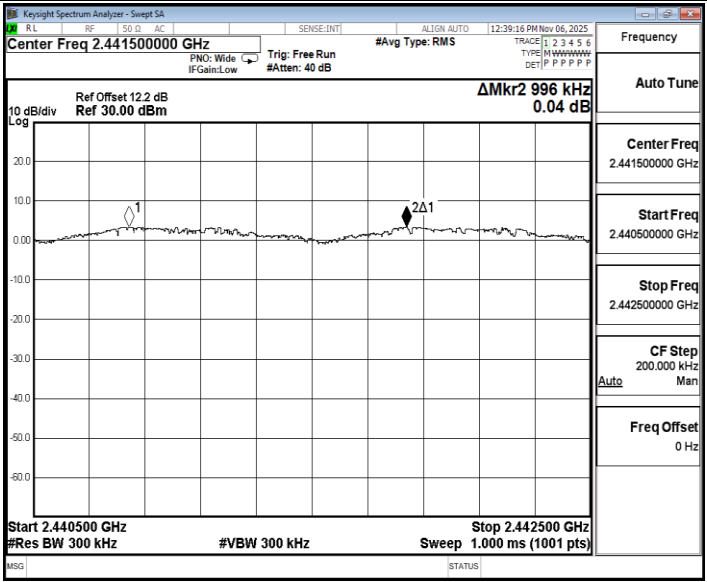
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.698	0.654	PASS
2DH5	Ant1	Hop	0.99	0.860	PASS
3DH5	Ant1	Hop	0.996	0.880	PASS

Test Graphs





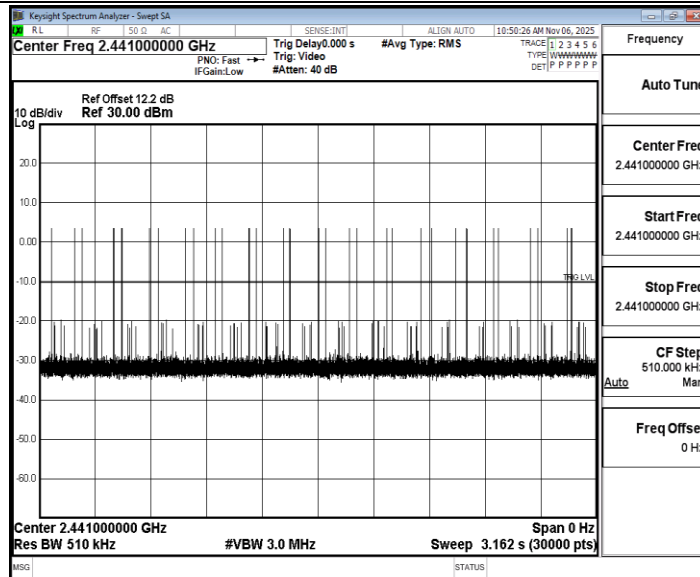
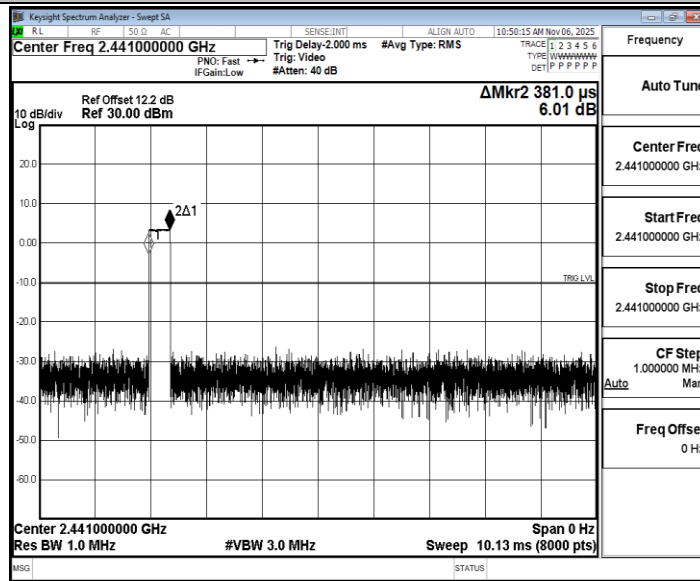
A.4 Time of occupancy

Test Result

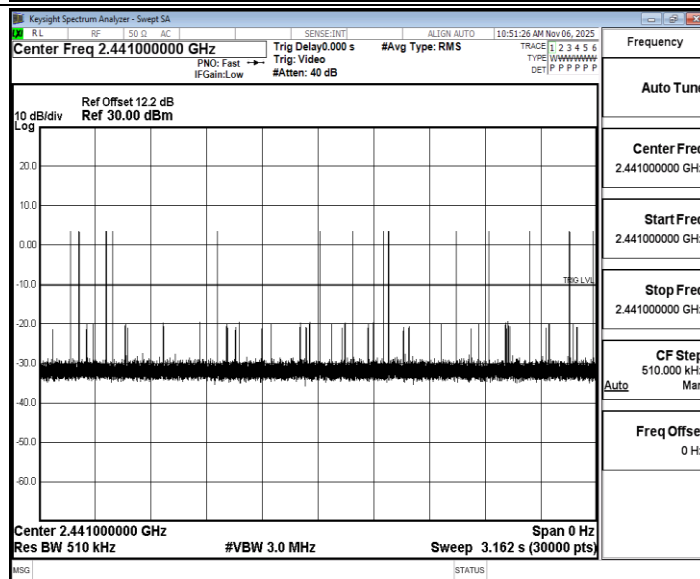
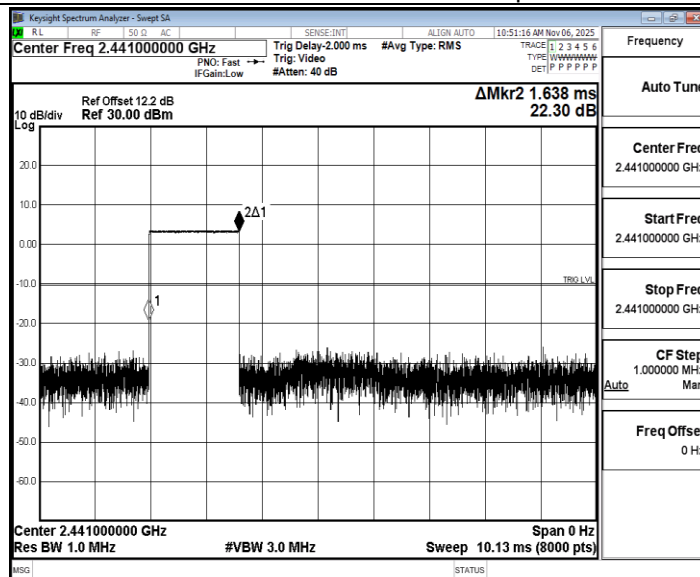
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.381	320	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.638	150	0.246	≤0.4	PASS
DH5	Ant1	Hop	2.885	100	0.289	≤0.4	PASS
2DH1	Ant1	Hop	0.390	330	0.129	≤0.4	PASS
2DH3	Ant1	Hop	1.643	150	0.246	≤0.4	PASS
2DH5	Ant1	Hop	2.891	130	0.376	≤0.4	PASS
3DH1	Ant1	Hop	0.390	320	0.125	≤0.4	PASS
3DH3	Ant1	Hop	1.642	160	0.263	≤0.4	PASS
3DH5	Ant1	Hop	2.892	130	0.376	≤0.4	PASS

Test Graphs

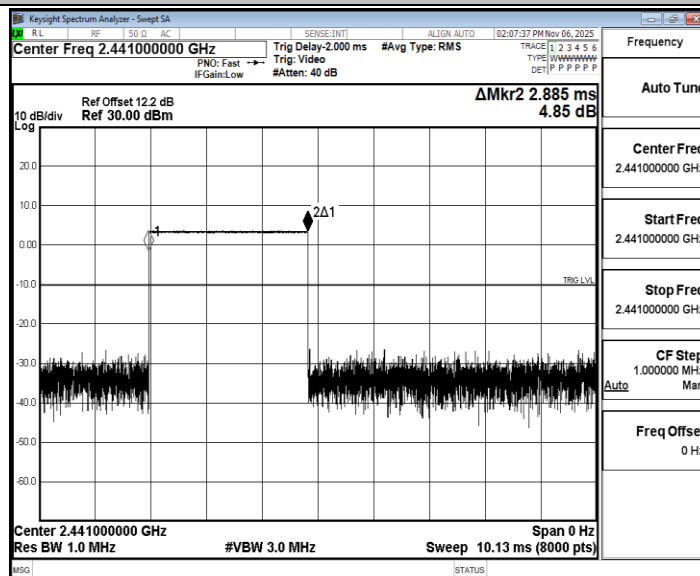
DH1_Ant1_Hop

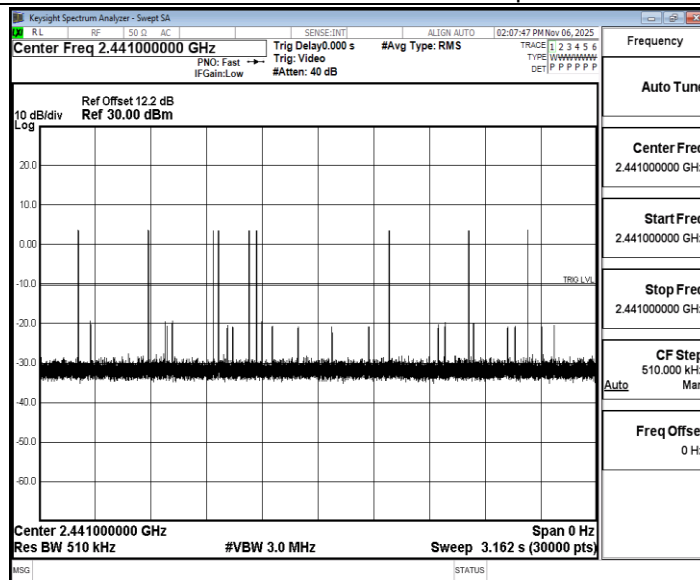


DH3_Ant1_Hop

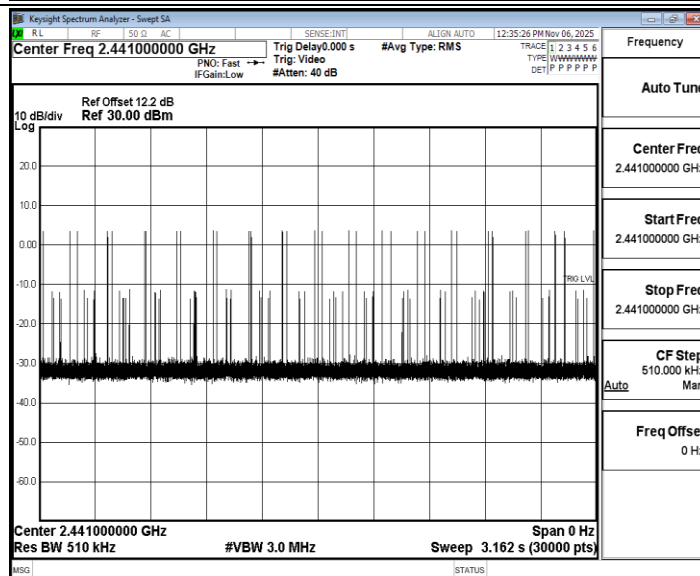
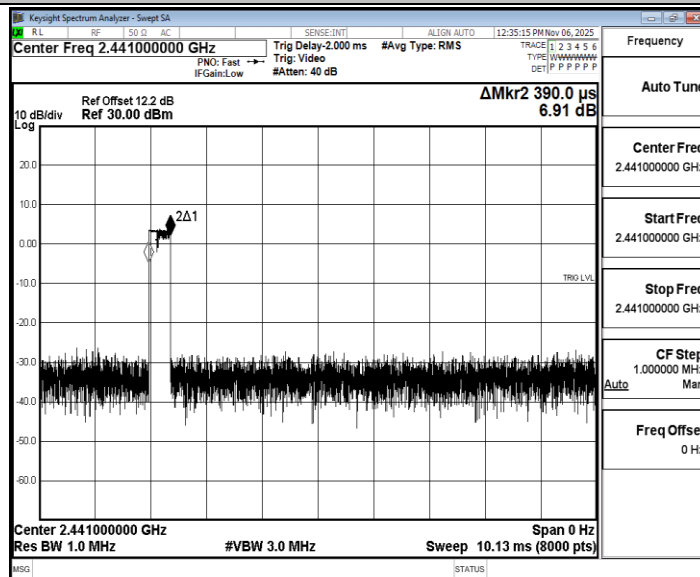


DH5_Ant1_Hop

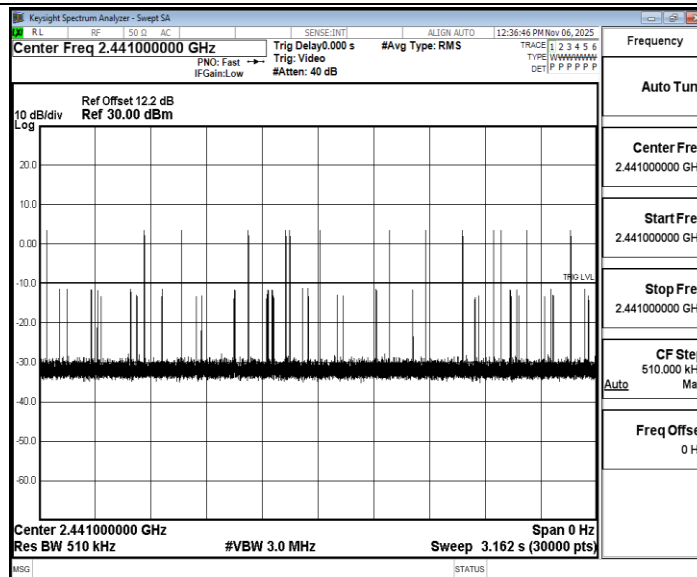
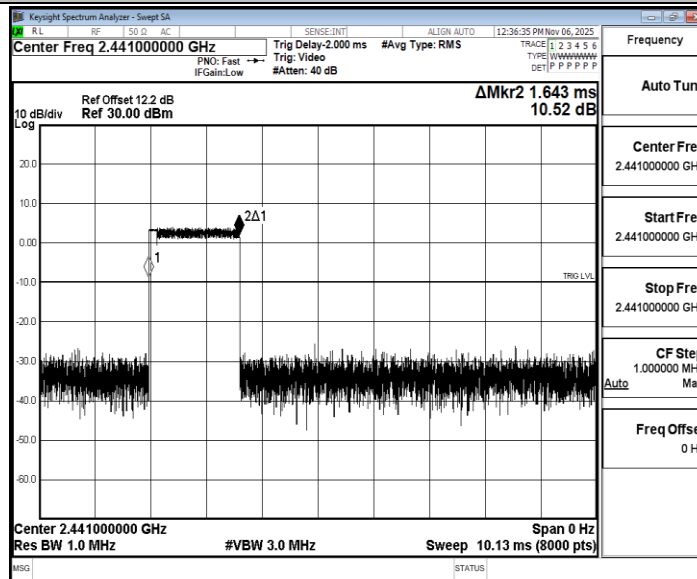




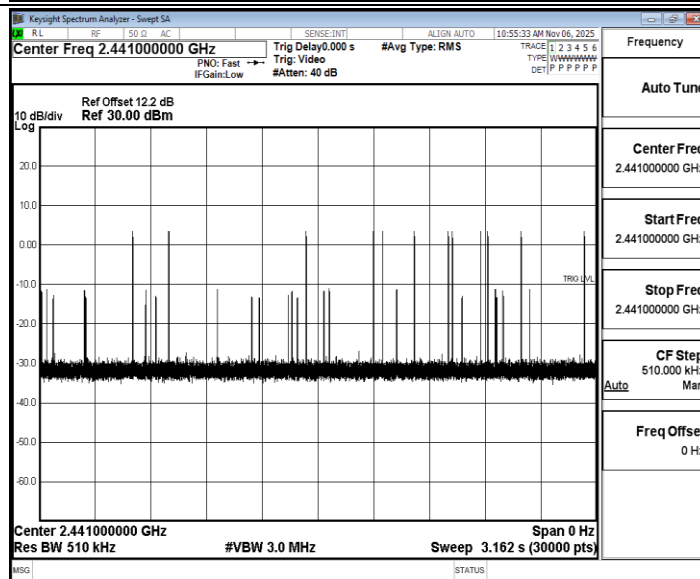
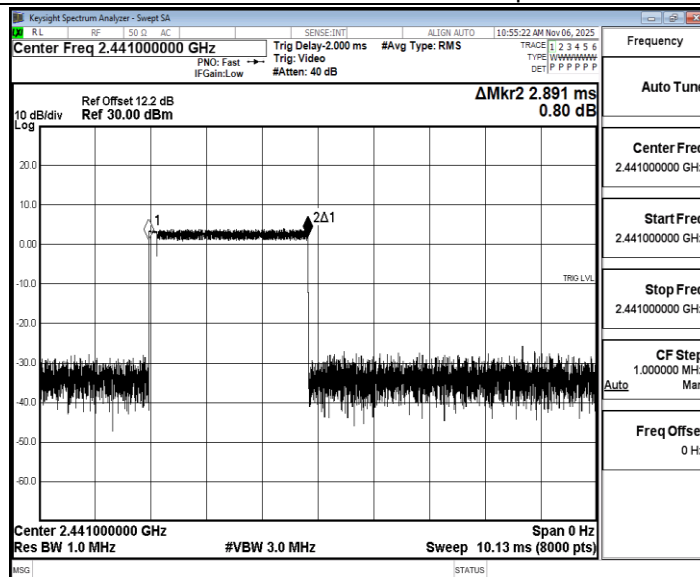
2DH1_Ant1_Hop



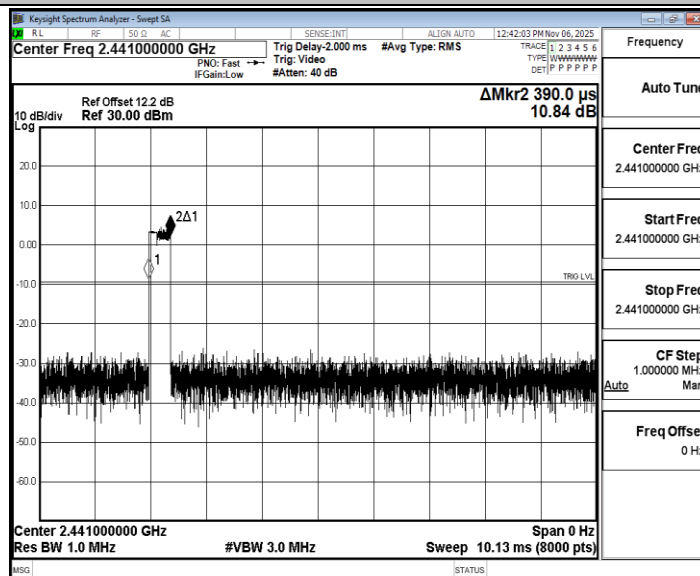
2DH3_Ant1_Hop

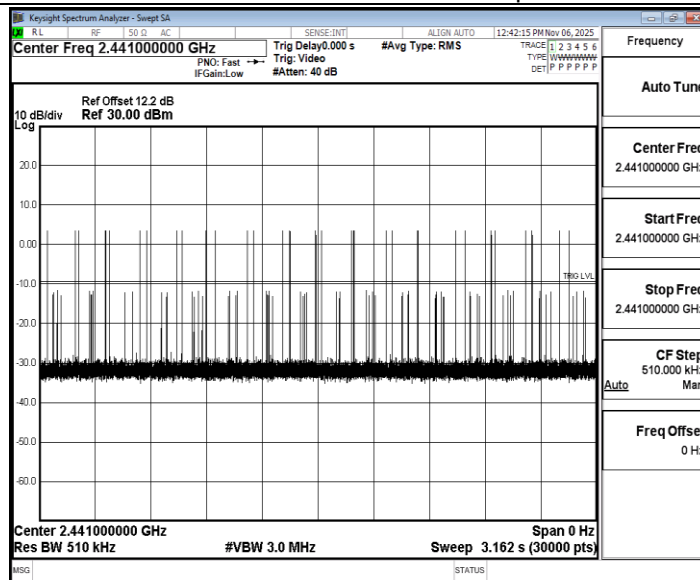


2DH5_Ant1_Hop

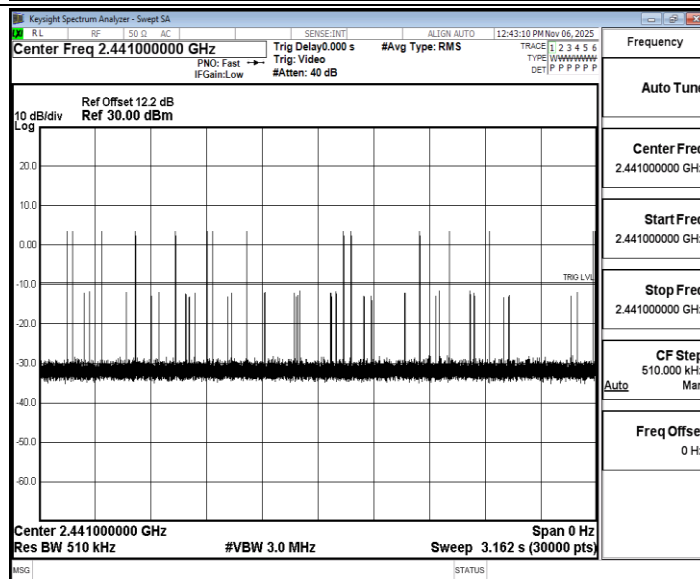
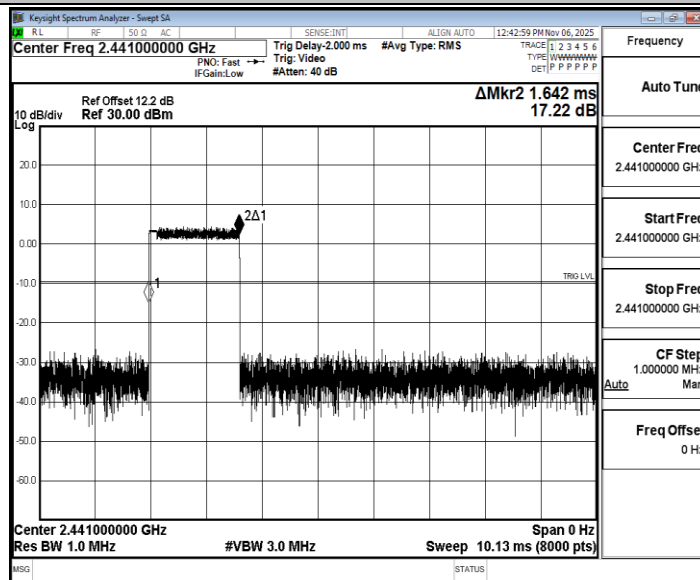


3DH1_Ant1_Hop

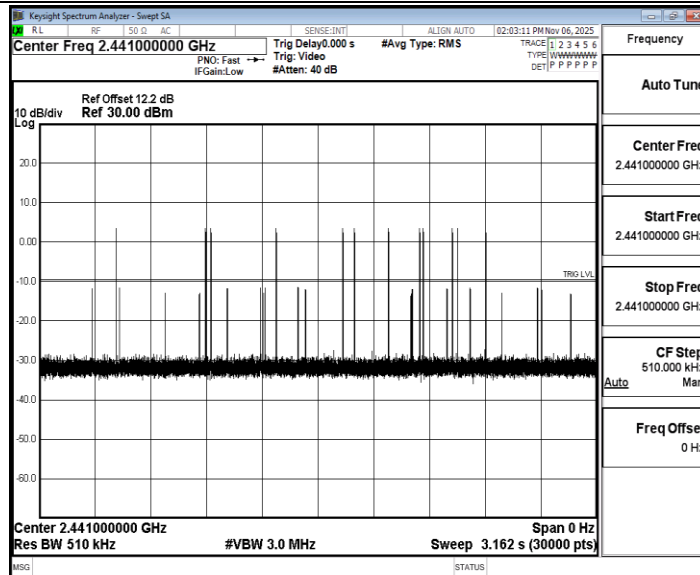
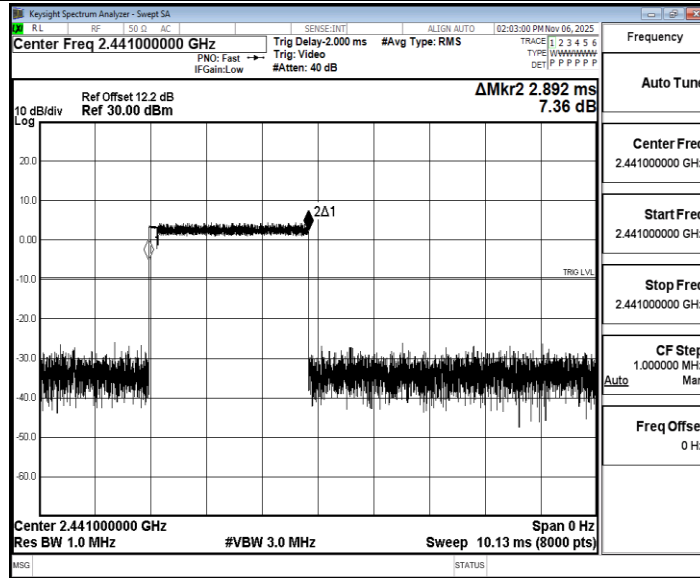




3DH3_Ant1_Hop



3DH5_Ant1_Hop

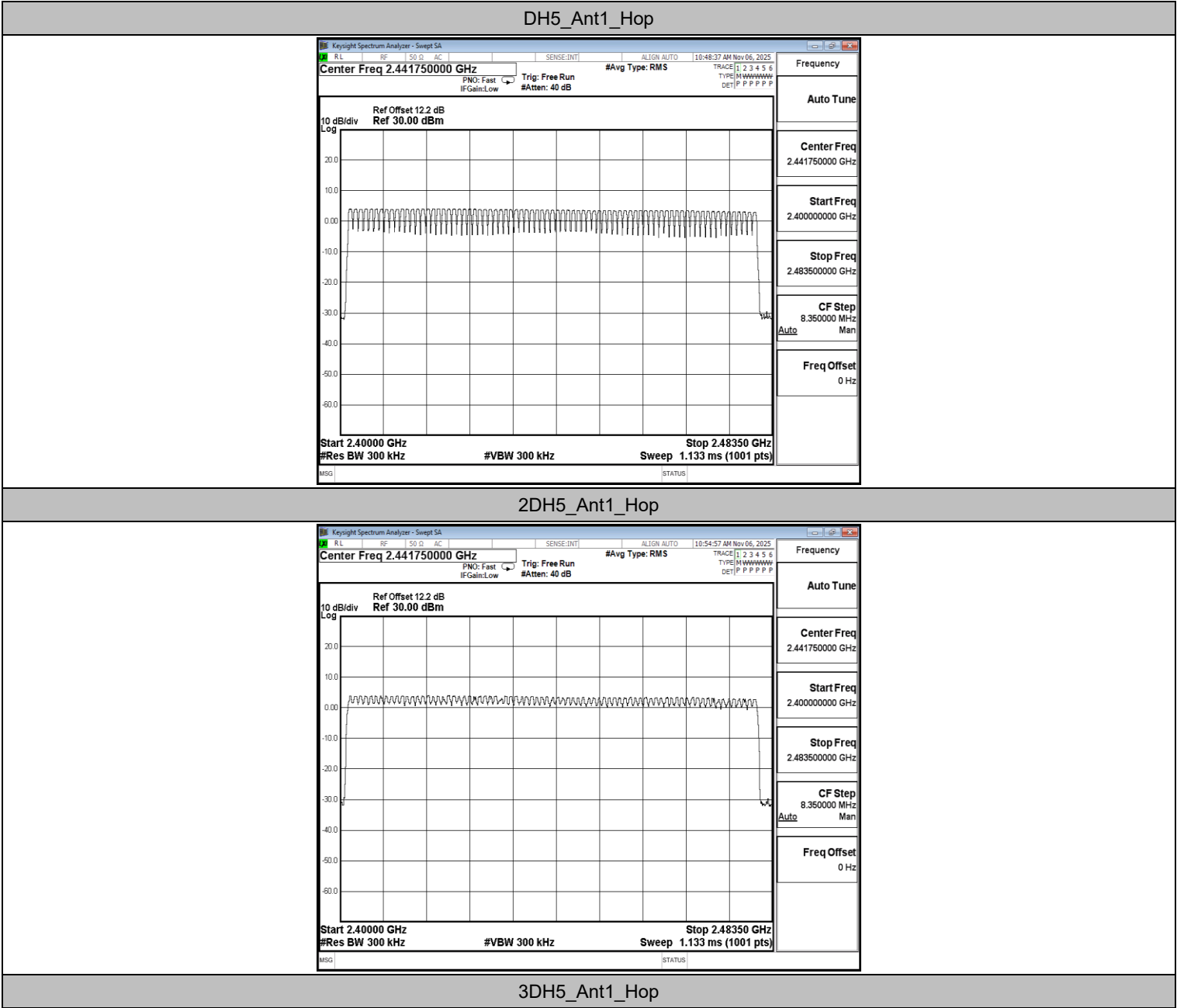


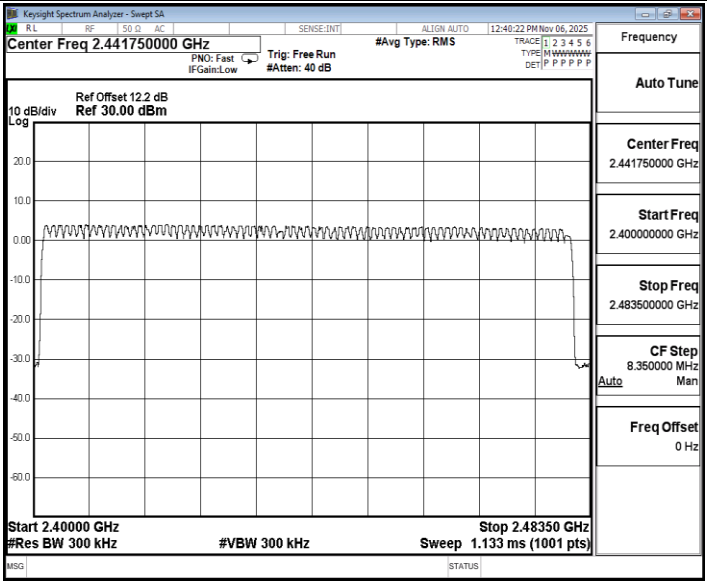
A.5 Number of hopping channels

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





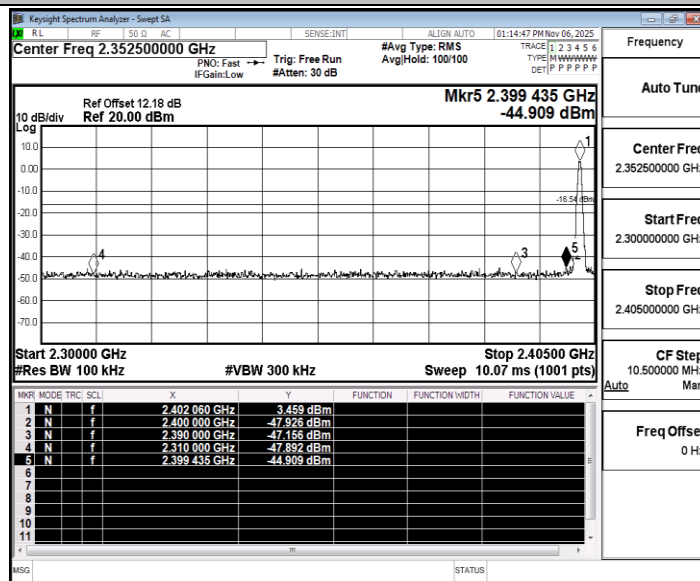
A.6 Band edge measurements

Test Result

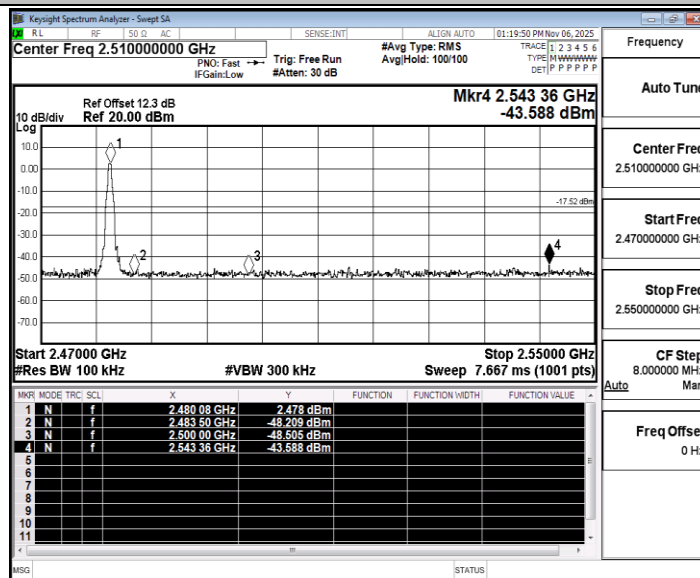
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.46	-44.91	≤-16.54	PASS
		High	2480	2.48	-43.59	≤-17.52	PASS
		Low	Hop_2402	3.13	-45.94	≤-16.87	PASS
		High	Hop_2480	2.21	-44.49	≤-17.79	PASS
2DH5	Ant1	Low	2402	3.56	-45.2	≤-16.44	PASS
		High	2480	2.69	-44.25	≤-17.31	PASS
		Low	Hop_2402	-1.63	-45.13	≤-21.63	PASS
		High	Hop_2480	-0.74	-44.75	≤-20.74	PASS
3DH5	Ant1	Low	2402	3.55	-45.23	≤-16.45	PASS
		High	2480	2.48	-44.85	≤-17.52	PASS
		Low	Hop_2402	-0.82	-45.73	≤-20.82	PASS
		High	Hop_2480	-2.27	-45.3	≤-22.27	PASS

Test Graphs

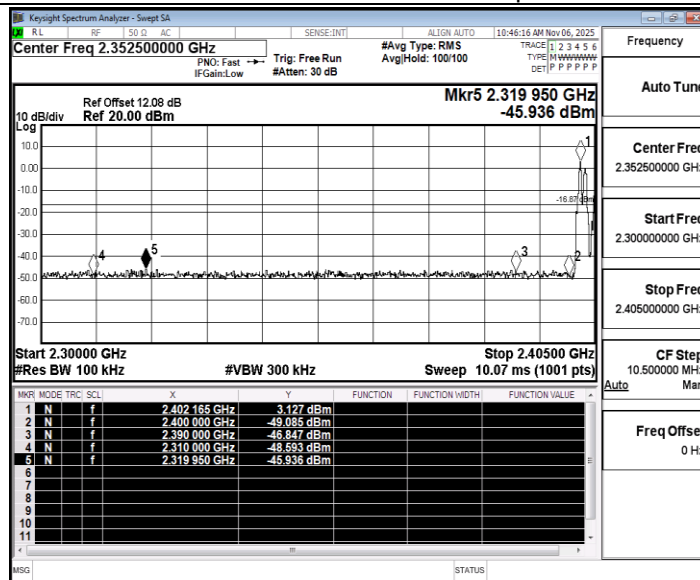
DH5_Ant1_Low_2402



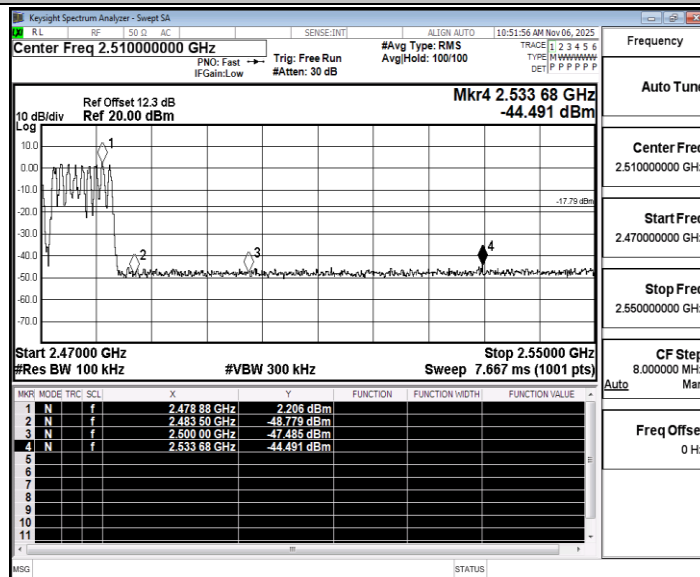
DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402