

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless Speaker

Test Model: SH-309

Environmental Conditions

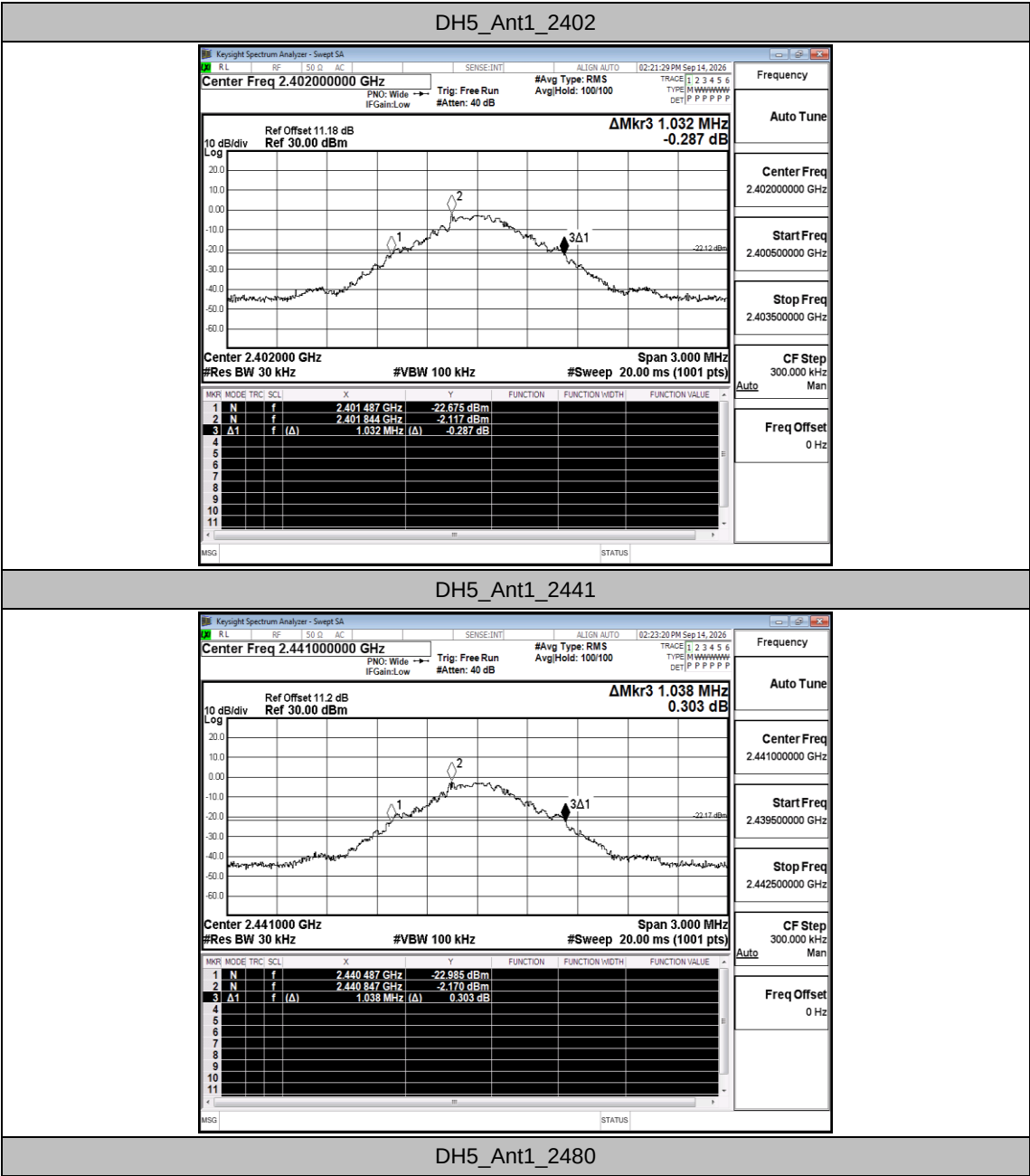
Temperature:	24.6°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhao xing hai
Supervised by:	Fengliu Tang

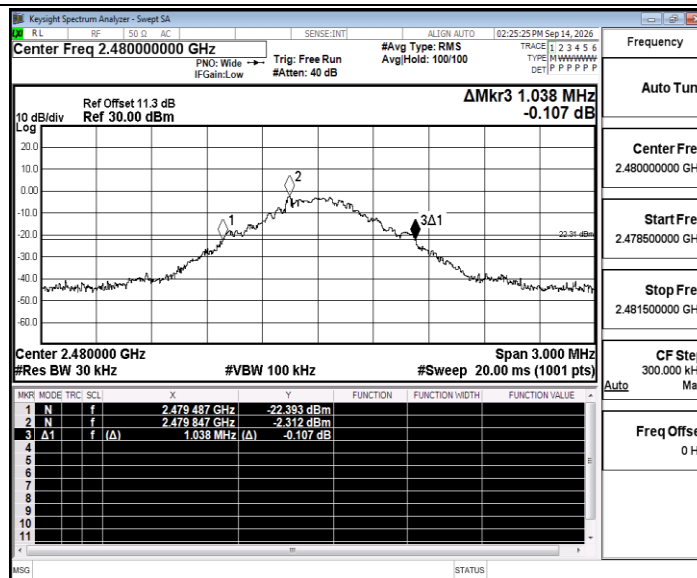
A.1 20dB Emission Bandwidth

Test Result

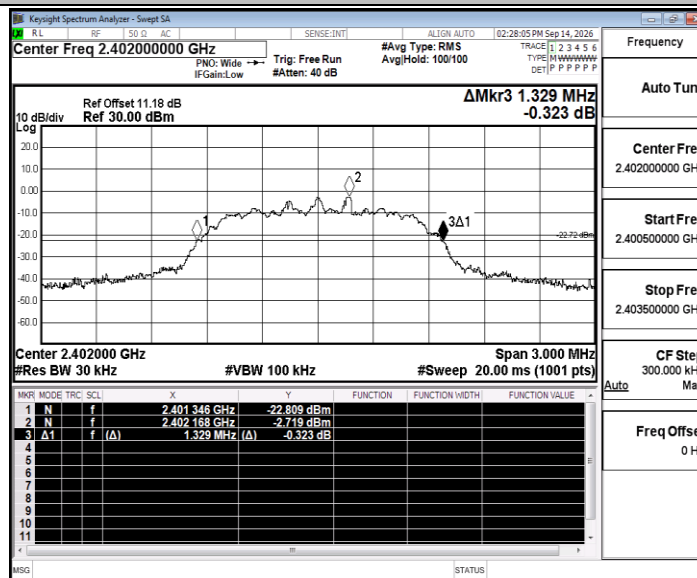
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.032	2401.487	2402.519	---	---
		2441	1.038	2440.487	2441.525	---	---
		2480	1.038	2479.487	2480.525	---	---
2DH5	Ant1	2402	1.329	2401.346	2402.675	---	---
		2441	1.329	2440.343	2441.672	---	---
		2480	1.344	2479.337	2480.681	---	---
3DH5	Ant1	2402	1.299	2401.361	2402.660	---	---
		2441	1.290	2440.361	2441.651	---	---
		2480	1.305	2479.352	2480.657	---	---

Test Graphs

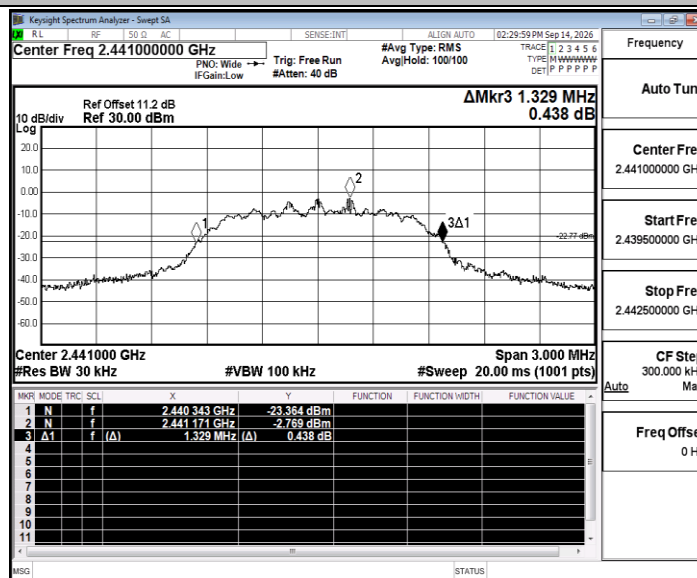




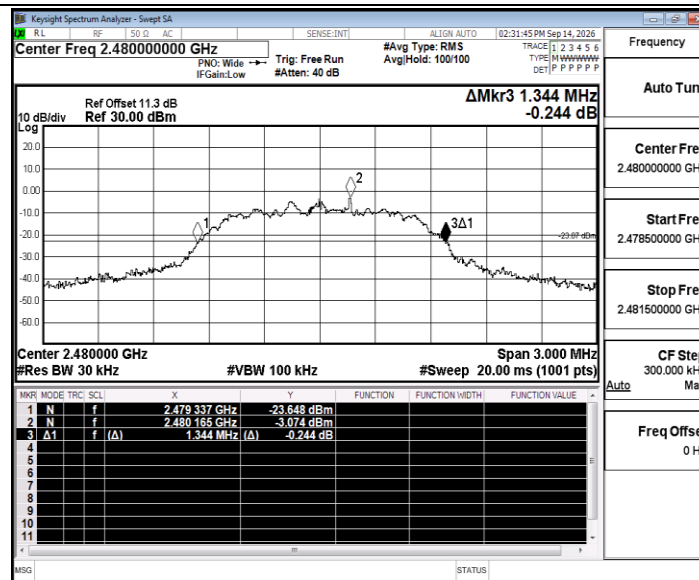
2DH5_Ant1_2402



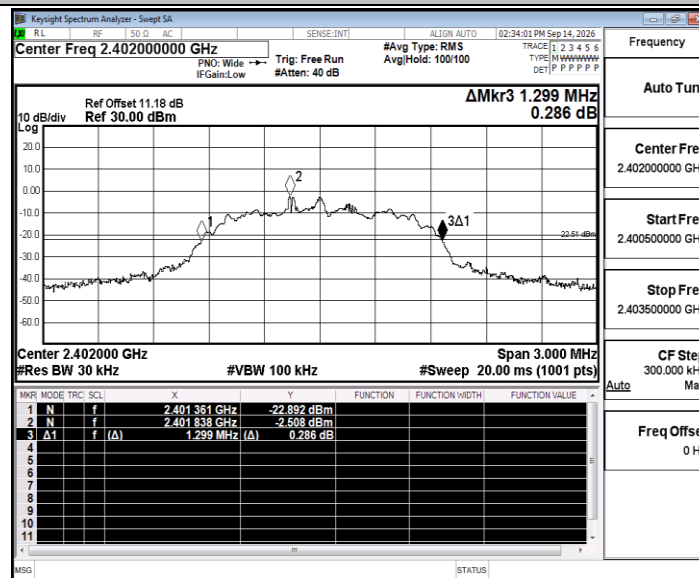
2DH5_Ant1_2441



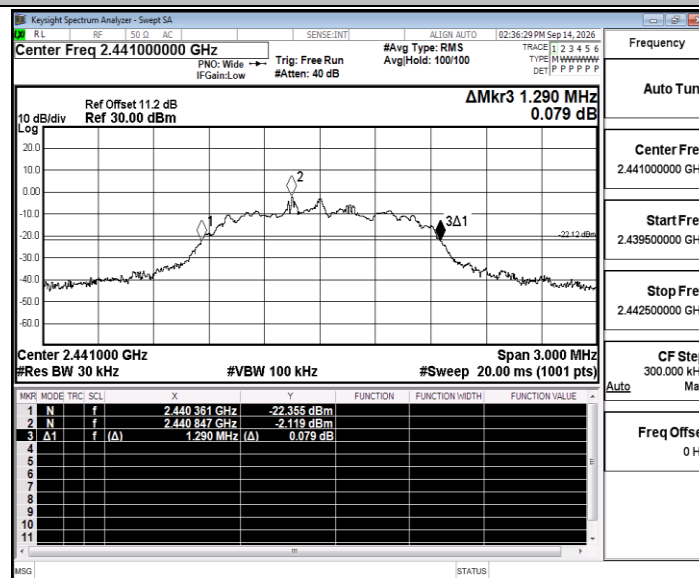
2DH5_Ant1_2480



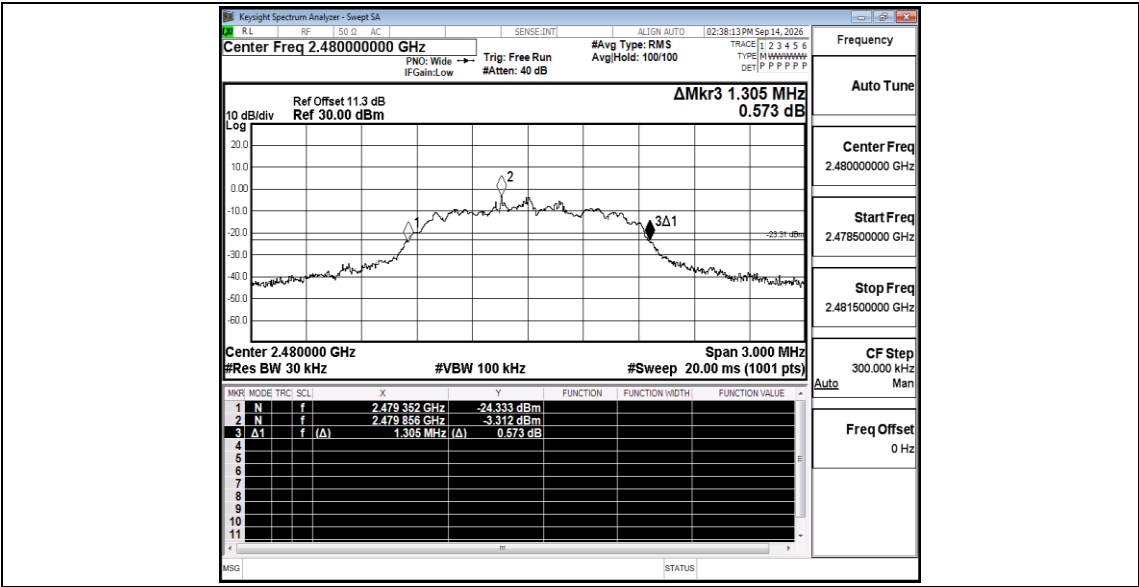
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

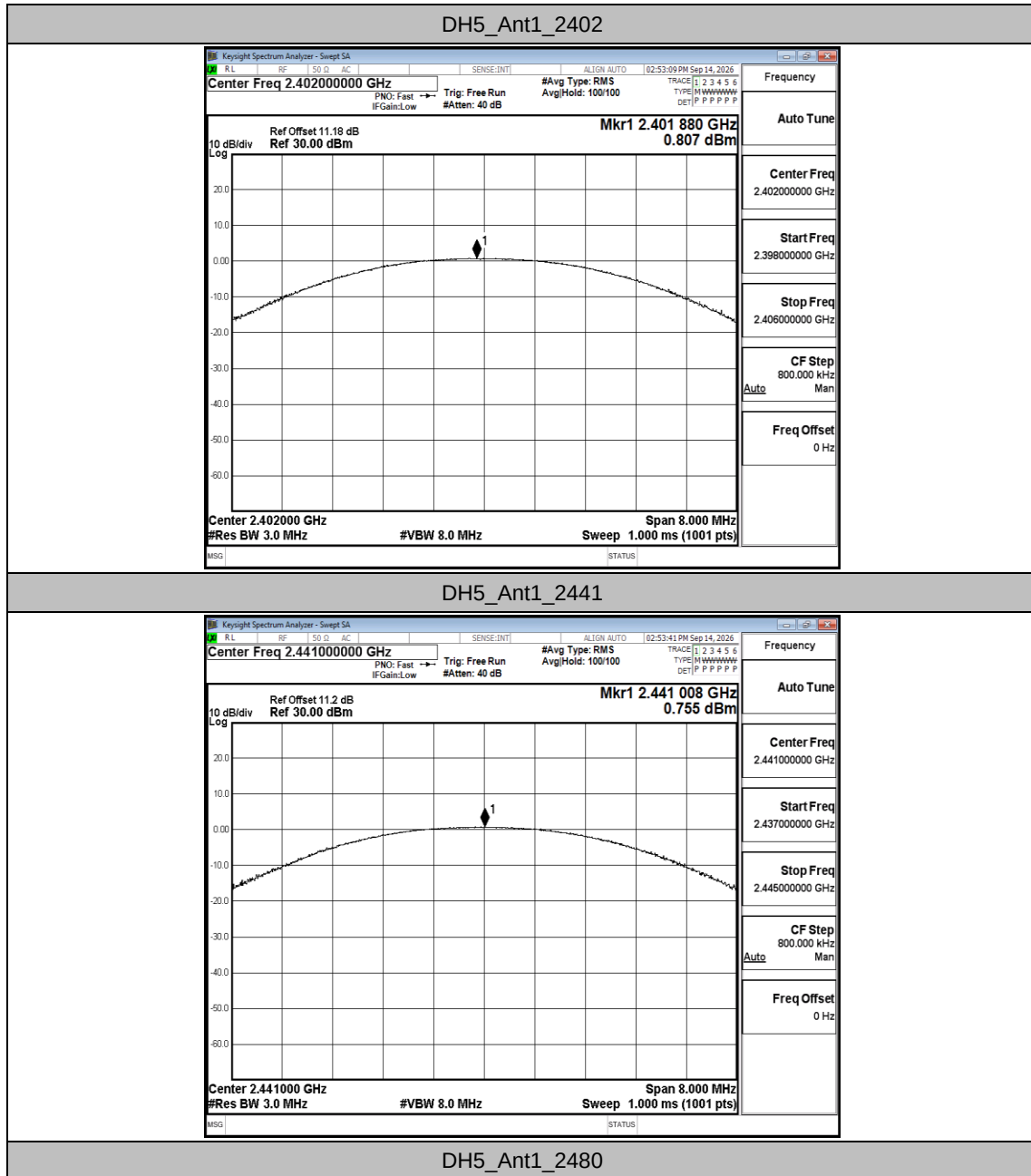


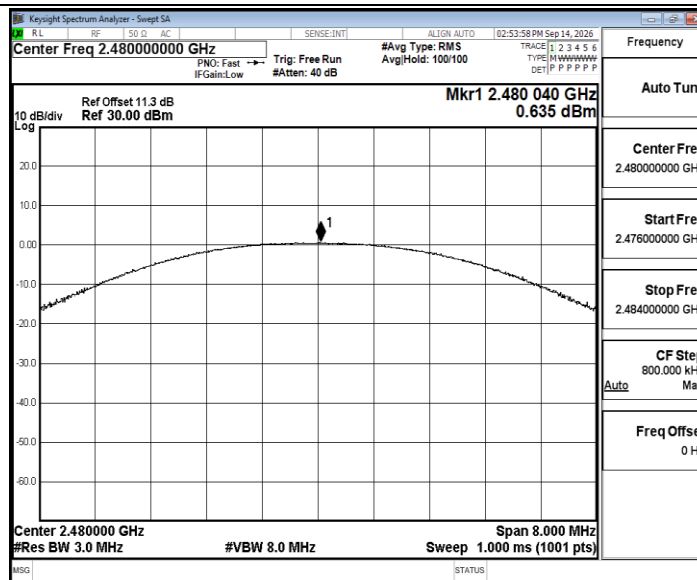
A.2 Maximum Peak conducted output power

Test Result Peak

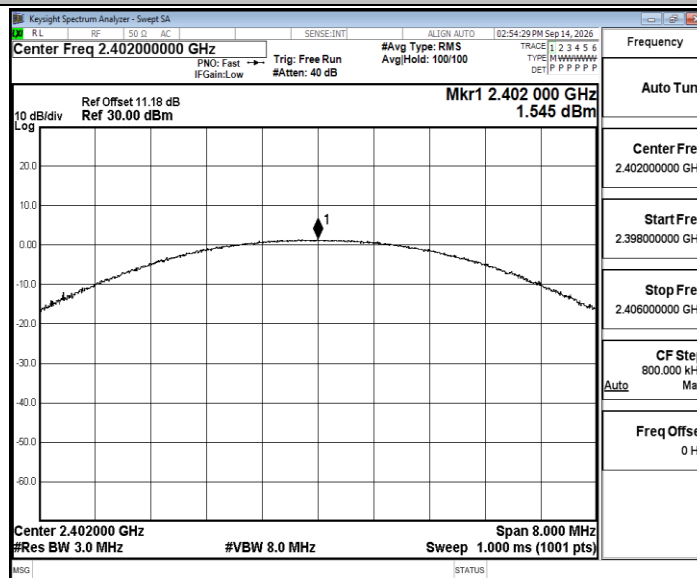
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.81	≤30	PASS
		2441	0.76	≤30	PASS
		2480	0.64	≤30	PASS
2DH5	Ant1	2402	1.55	≤20.97	PASS
		2441	1.37	≤20.97	PASS
		2480	1.32	≤20.97	PASS
3DH5	Ant1	2402	1.69	≤20.97	PASS
		2441	1.91	≤20.97	PASS
		2480	1.60	≤20.97	PASS

Test Graphs

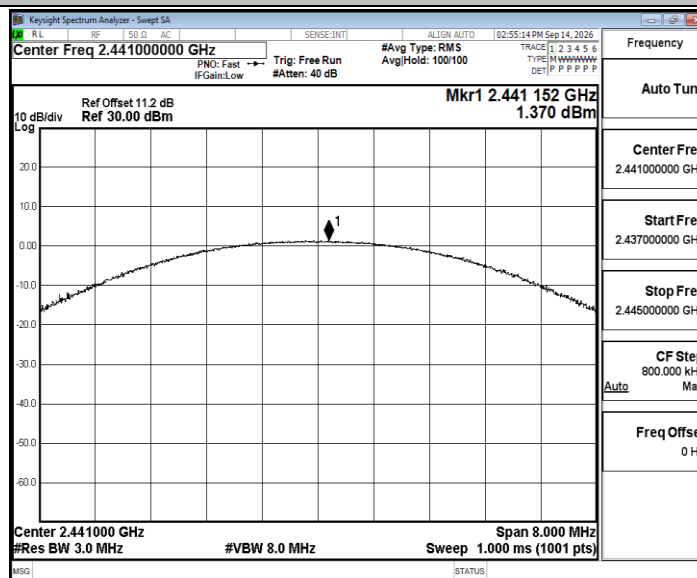




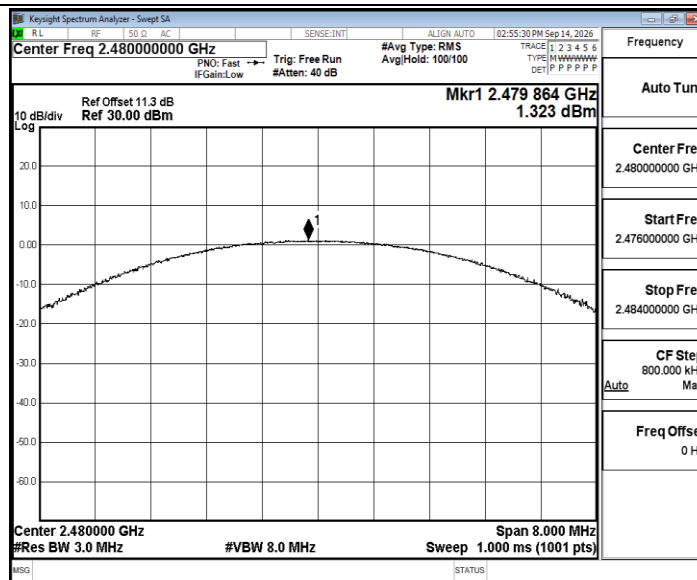
2DH5_Ant1_2402



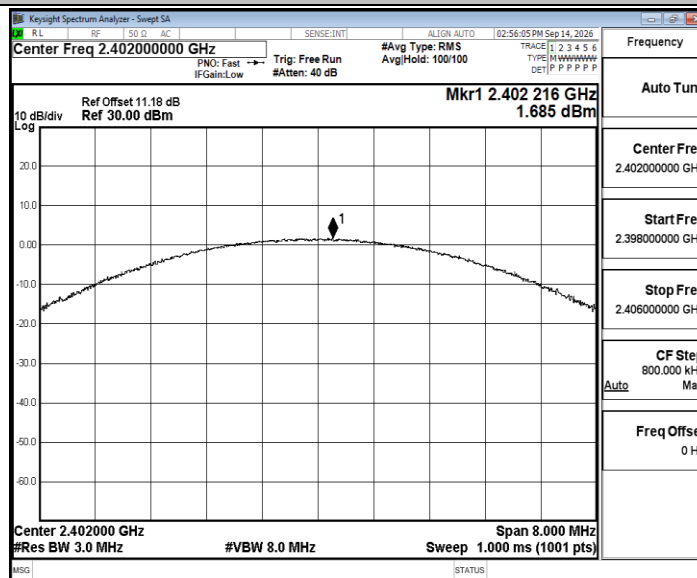
2DH5_Ant1_2441



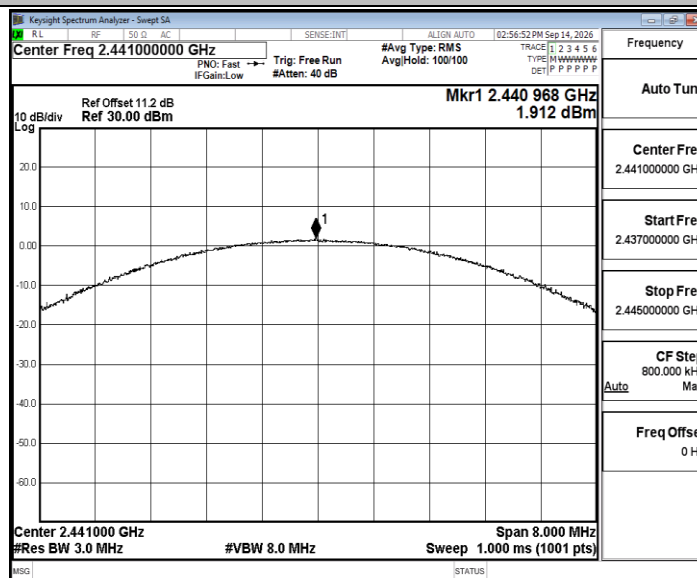
2DH5_Ant1_2480



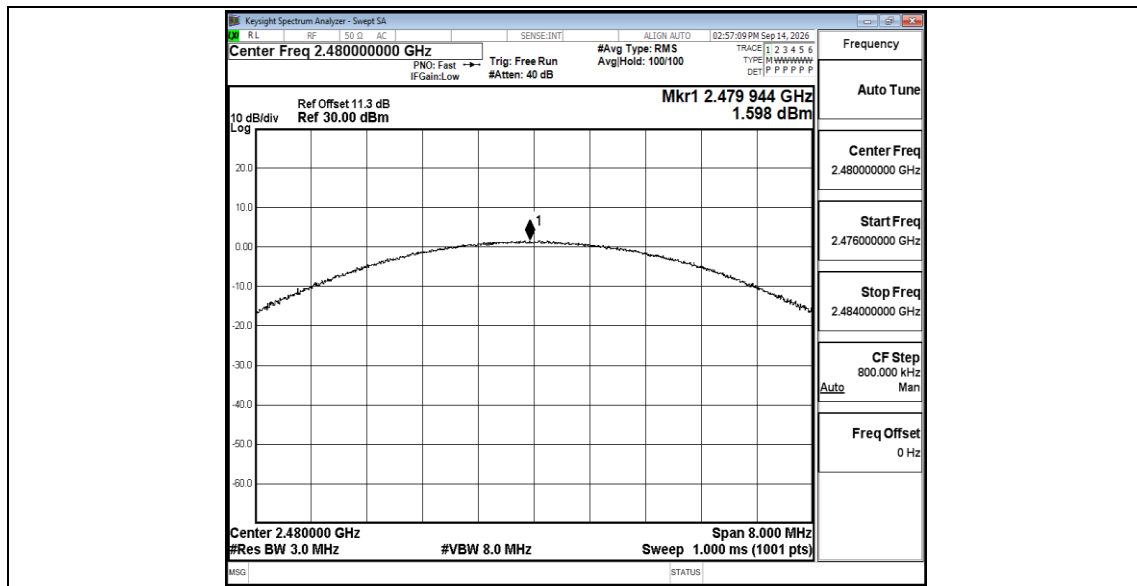
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

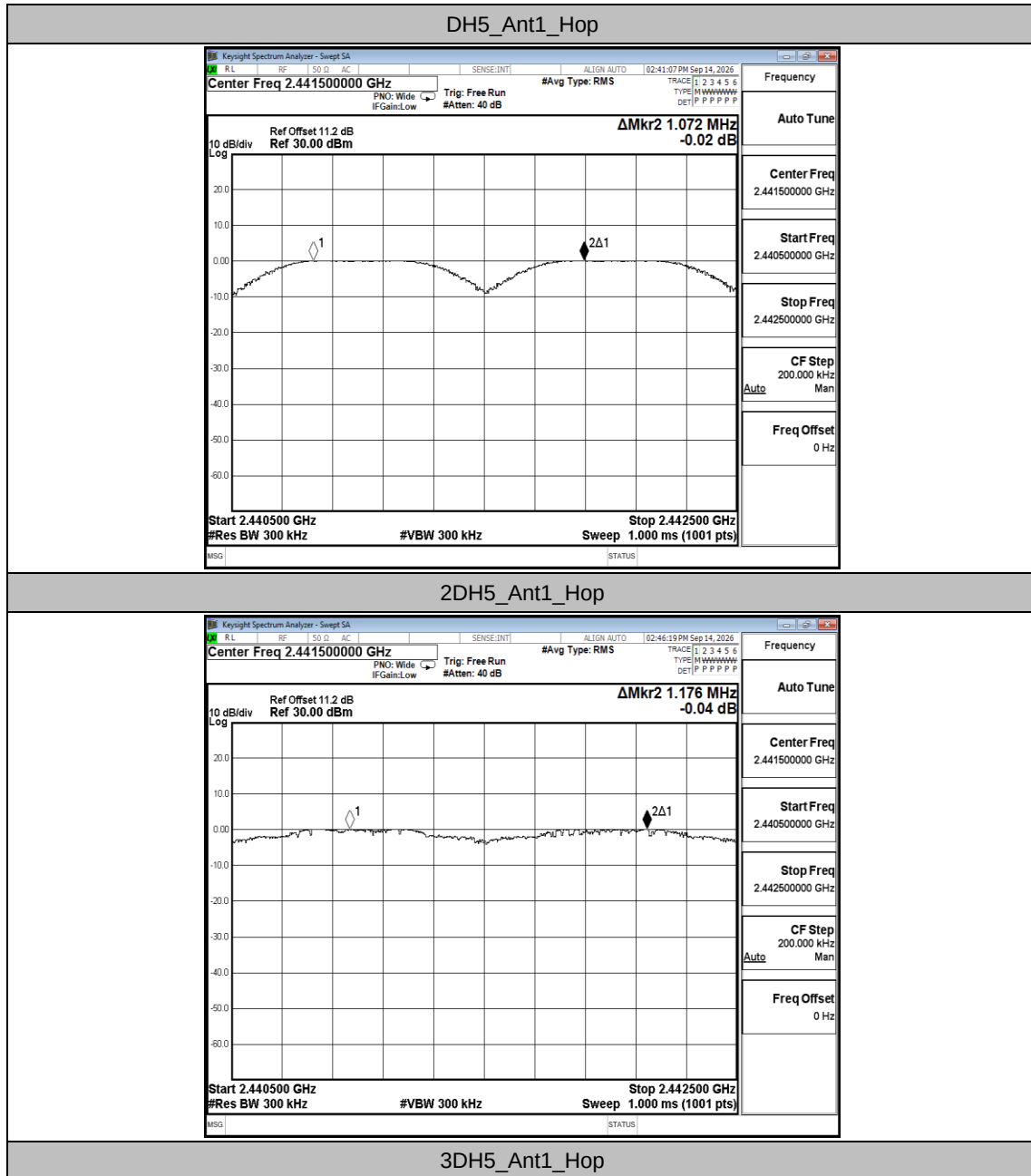


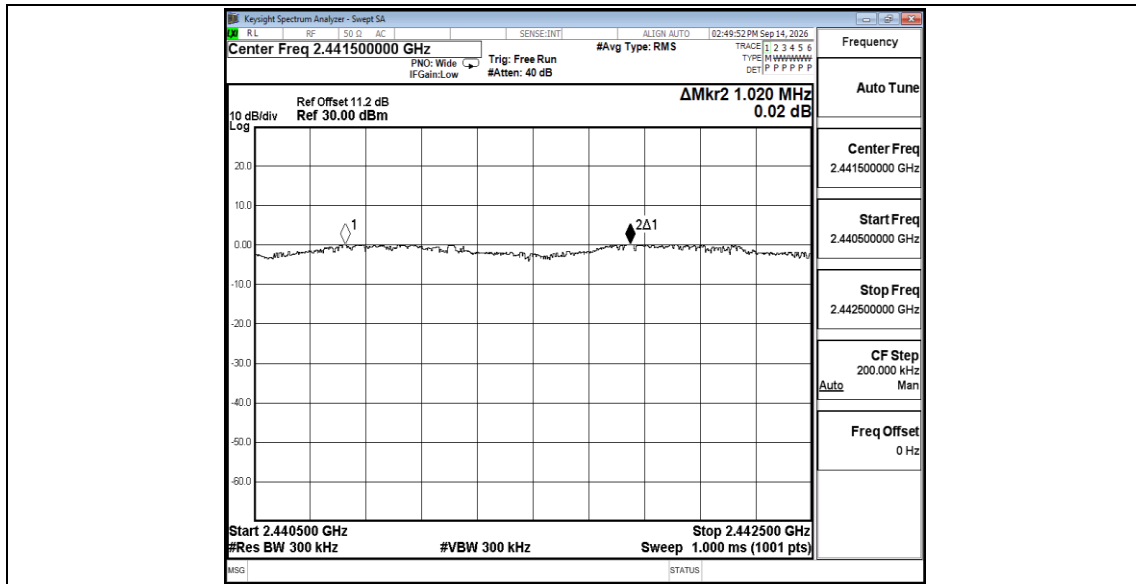
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.072	≥ 0.692	PASS
2DH5	Ant1	Hop	1.176	≥ 0.896	PASS
3DH5	Ant1	Hop	1.02	≥ 0.870	PASS

Test Graphs



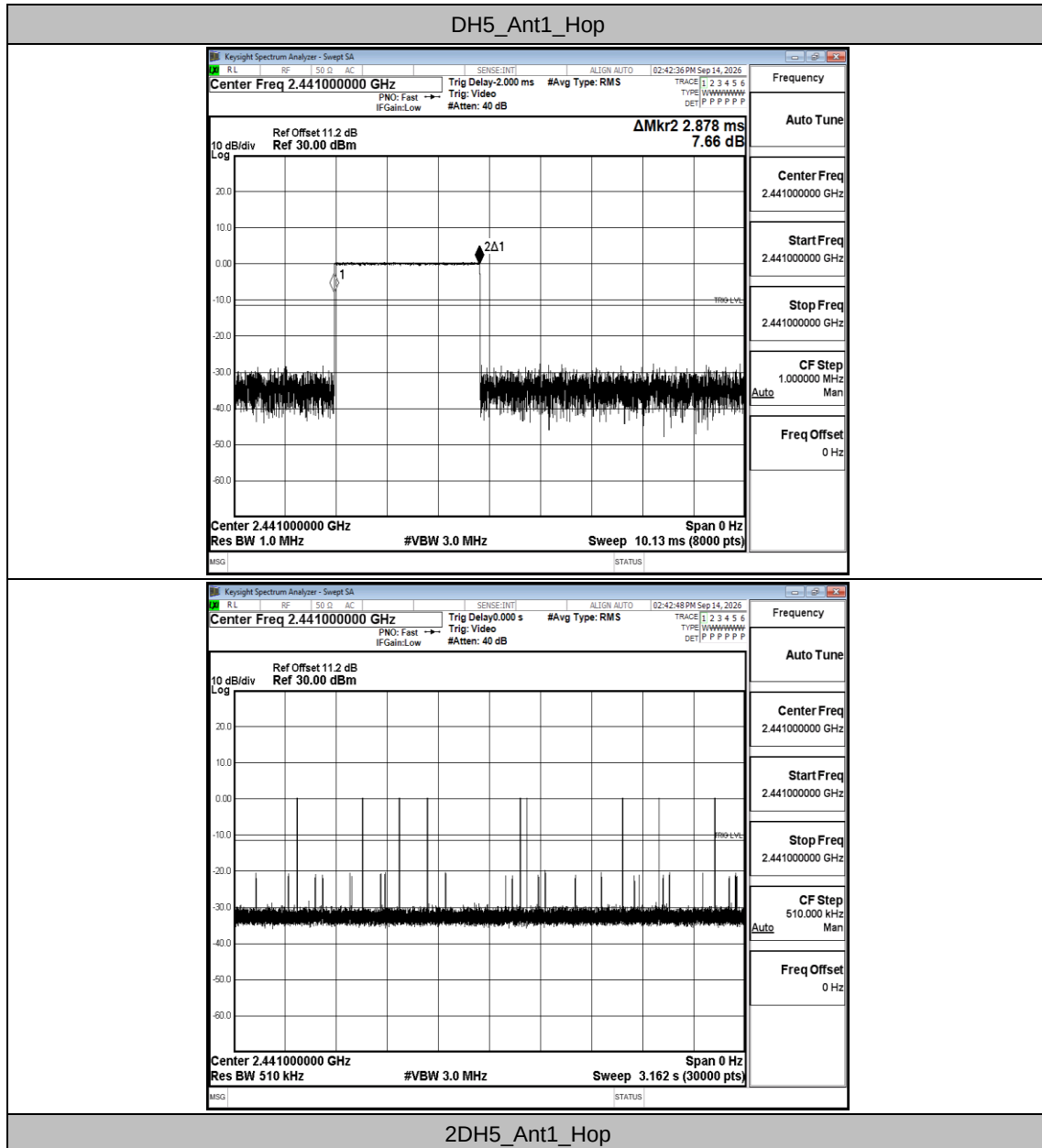


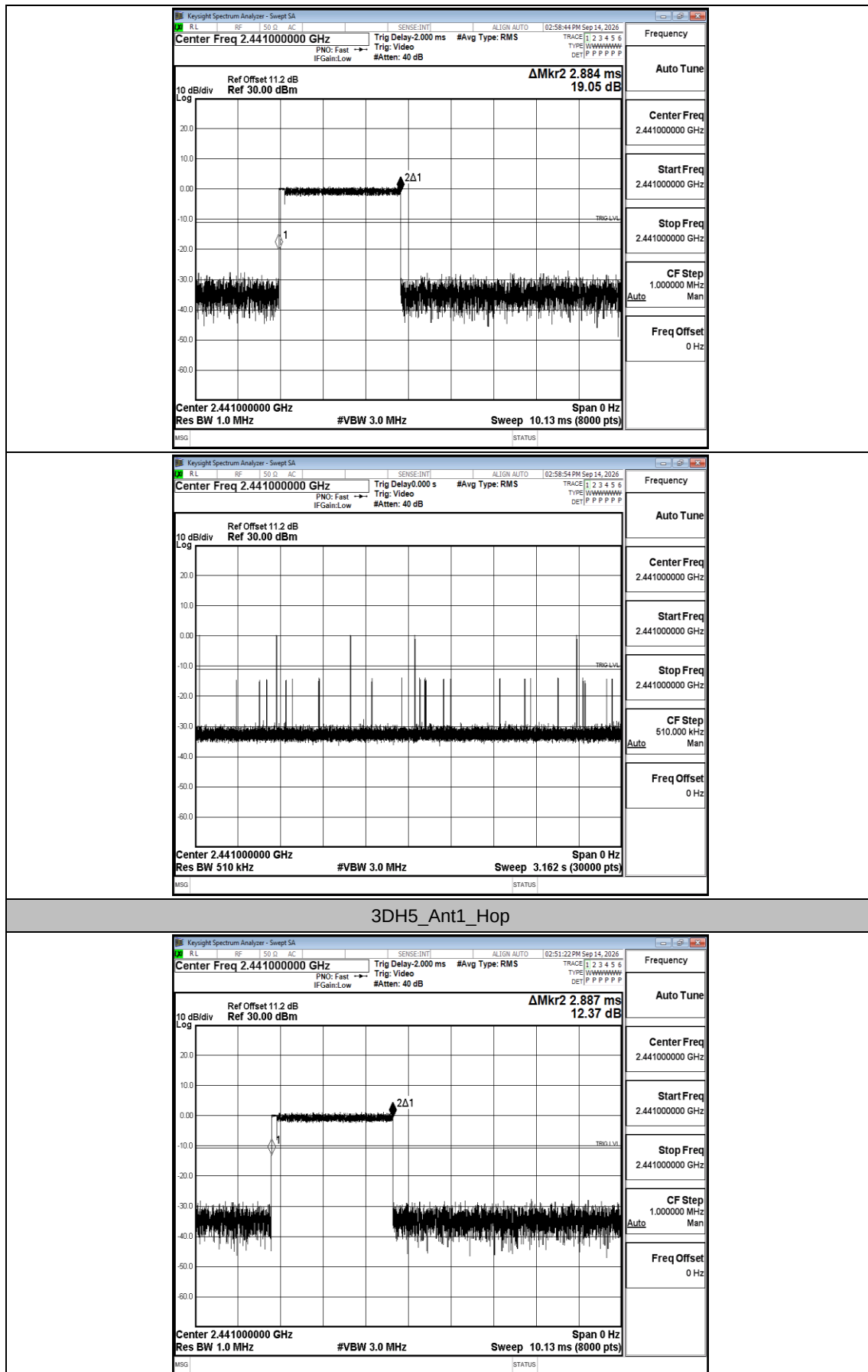
A.4 Time of occupancy

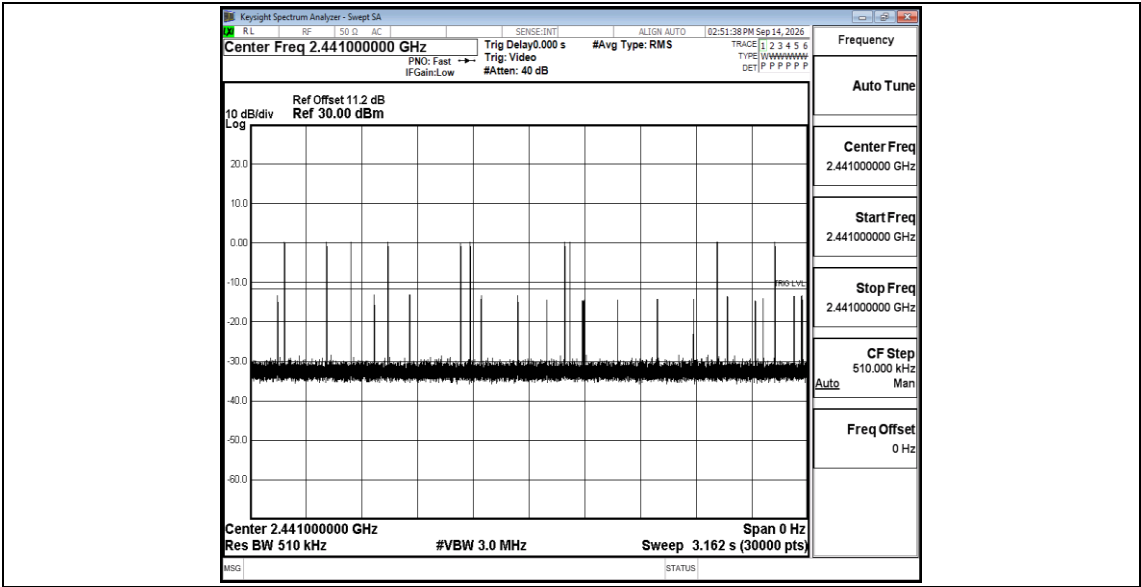
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.878	100	0.288	≤0.4	PASS
2DH5	Ant1	Hop	2.884	90	0.260	≤0.4	PASS
3DH5	Ant1	Hop	2.887	110	0.318	≤0.4	PASS

Test Graphs





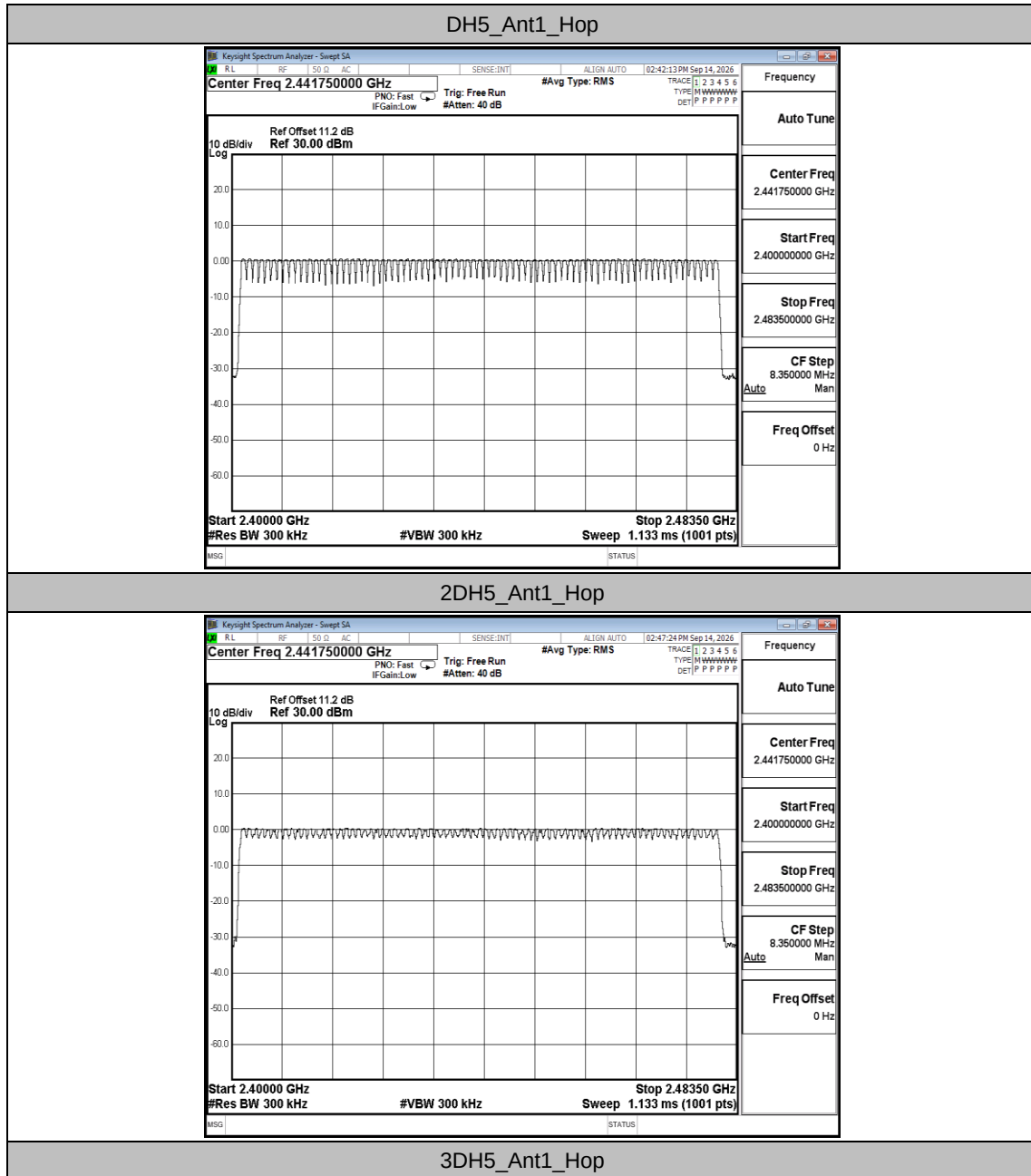


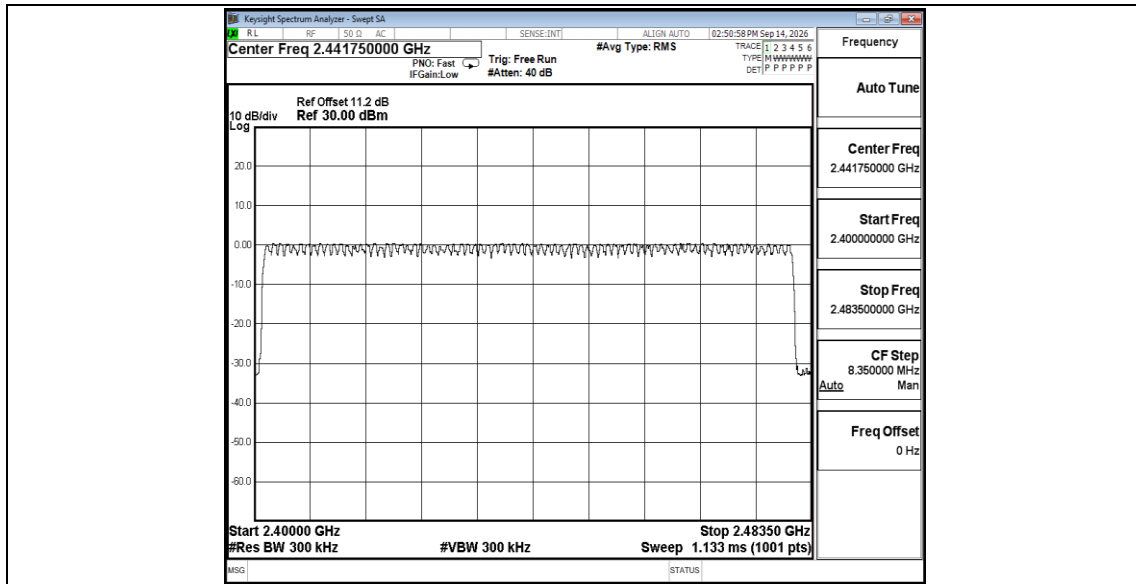
A.5 Number of hopping channels

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



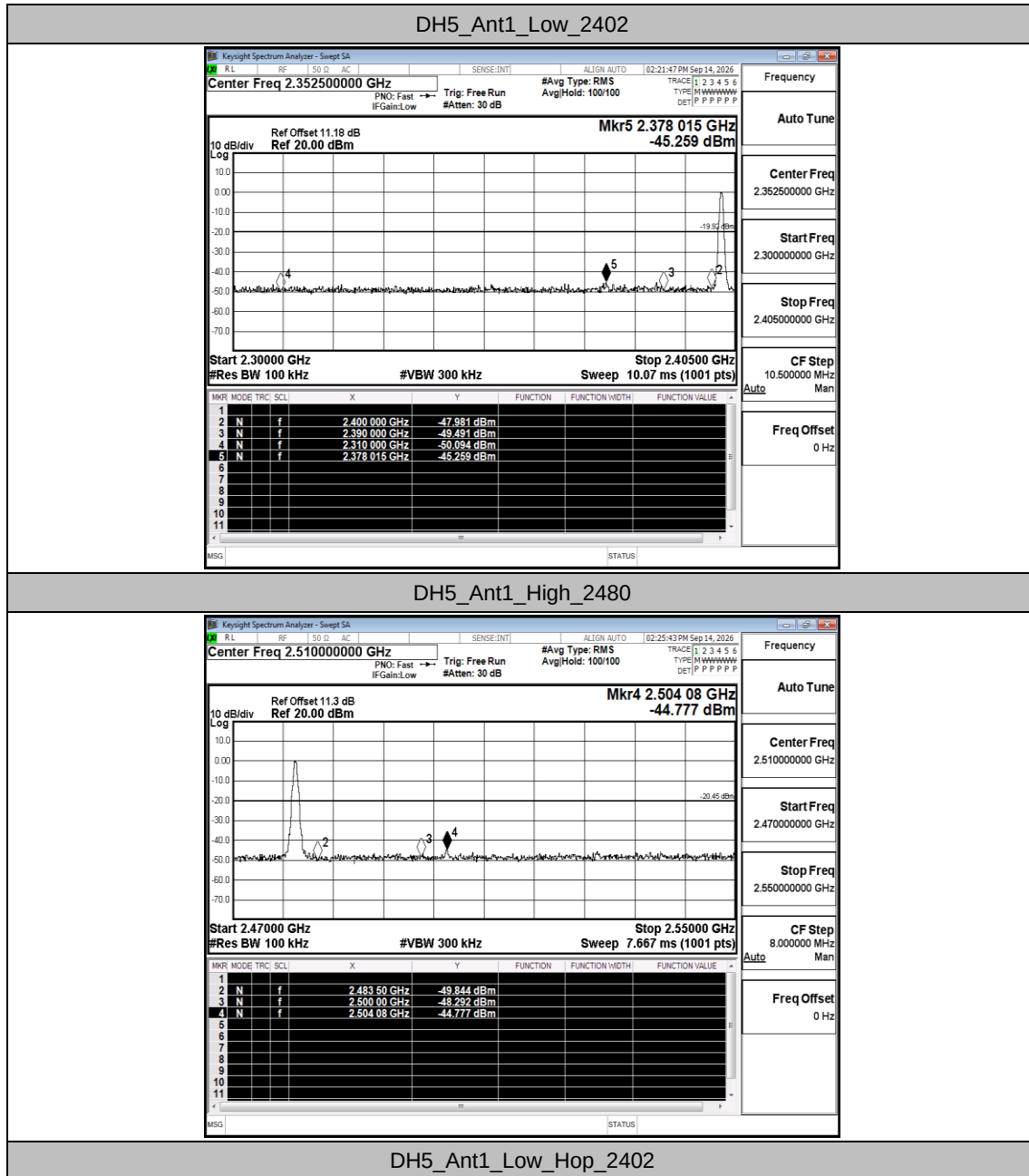


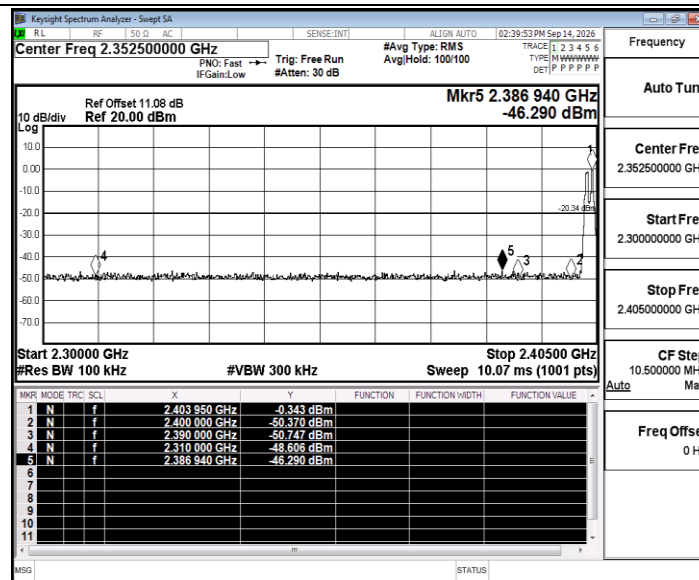
A.6 Band edge measurements

Test Result

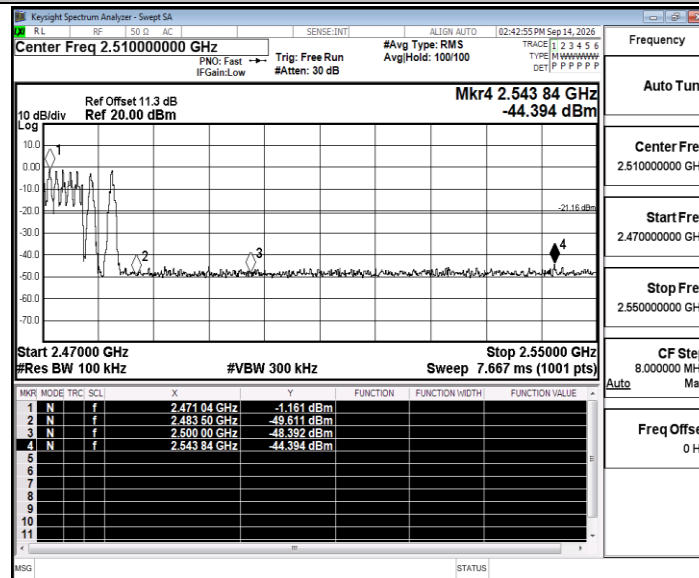
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.08	-45.26	≤ -19.92	PASS
		High	2480	-0.45	-44.78	≤ -20.45	PASS
		Low	Hop_2402	-0.34	-46.29	≤ -20.34	PASS
		High	Hop_2480	-1.16	-44.39	≤ -21.16	PASS
2DH5	Ant1	Low	2402	-0.11	-45.17	≤ -20.11	PASS
		High	2480	-2.44	-45.45	≤ -22.44	PASS
		Low	Hop_2402	-4.81	-46.31	≤ -24.81	PASS
		High	Hop_2480	-3.28	-45.21	≤ -23.28	PASS
3DH5	Ant1	Low	2402	-3.23	-44.77	≤ -23.23	PASS
		High	2480	-0.48	-45.05	≤ -20.48	PASS
		Low	Hop_2402	-3.11	-46.18	≤ -23.11	PASS
		High	Hop_2480	-3.70	-45.4	≤ -23.7	PASS

Test Graphs

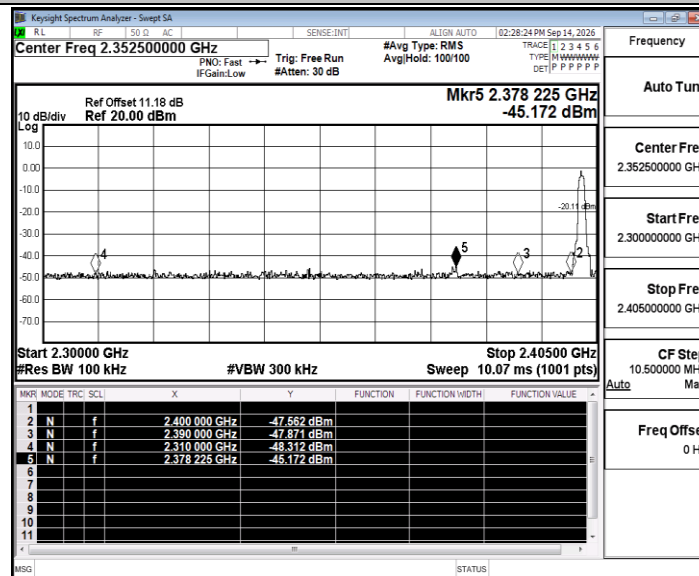




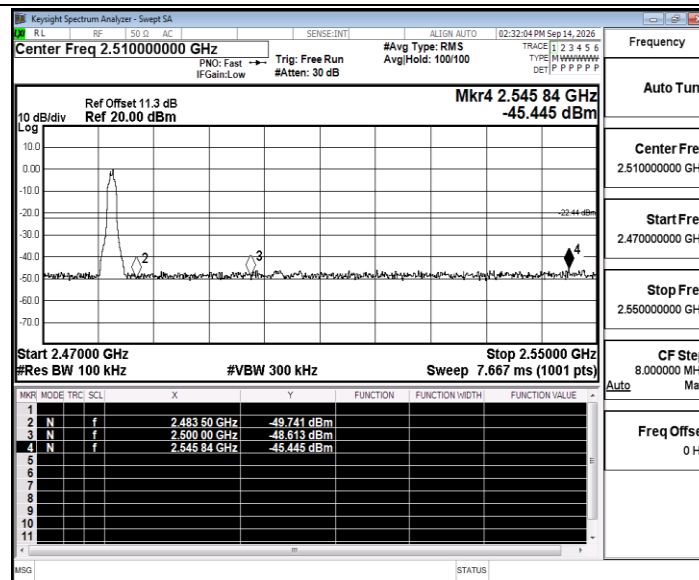
DH5_Ant1_High_Hop_2480



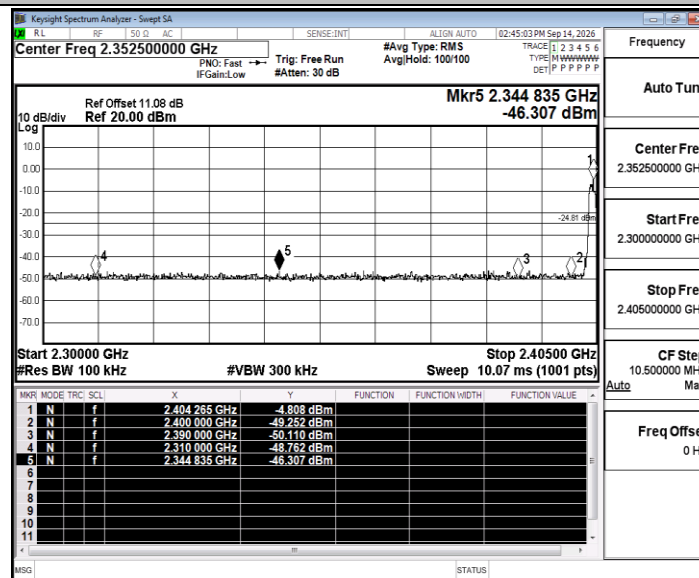
2DH5_Ant1_Low_2402



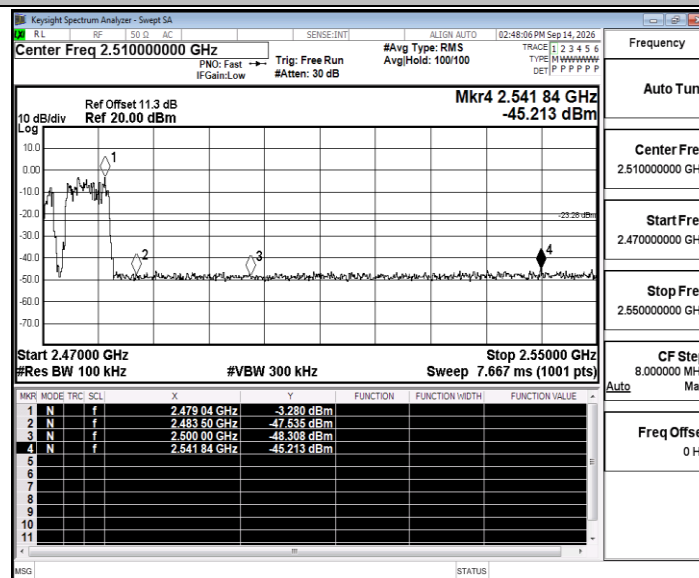
2DH5_Ant1_High_2480



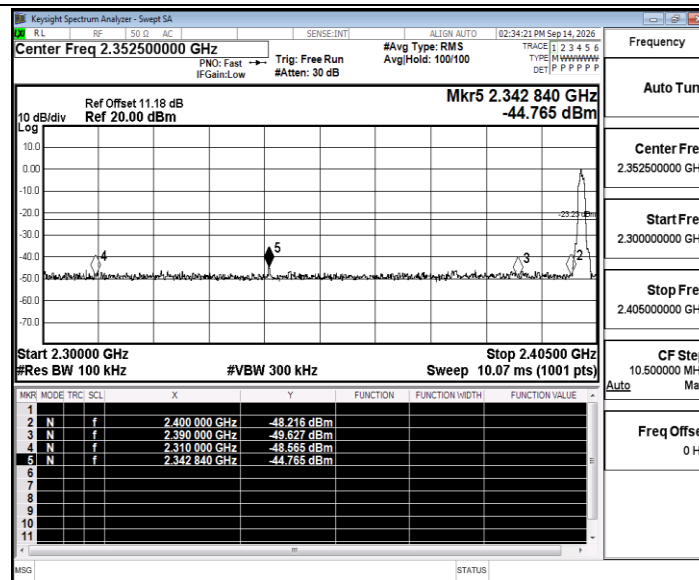
2DH5_Ant1_Low_Hop_2402



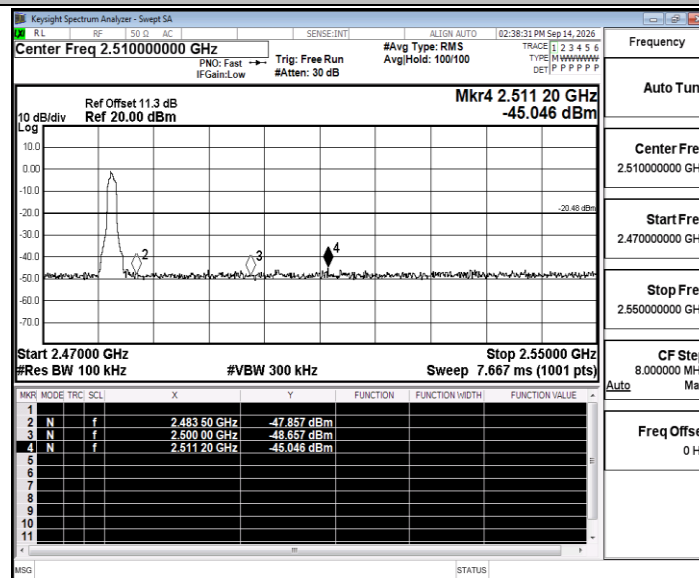
2DH5_Ant1_High_Hop_2480



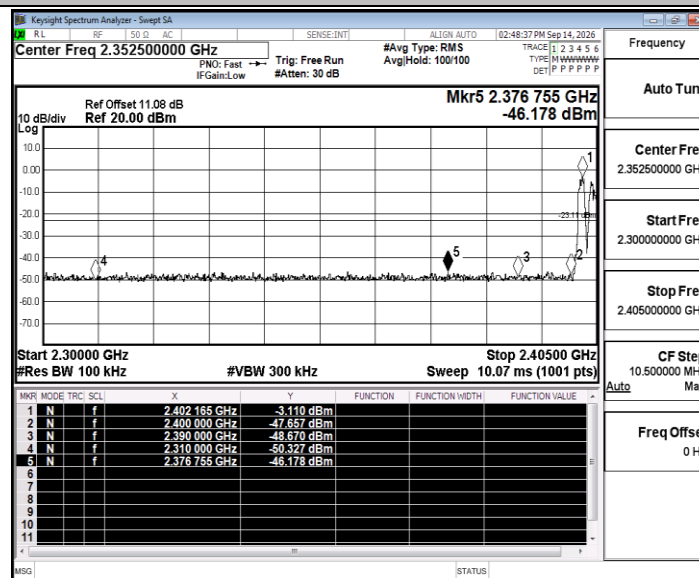
3DH5_Ant1_Low_2402



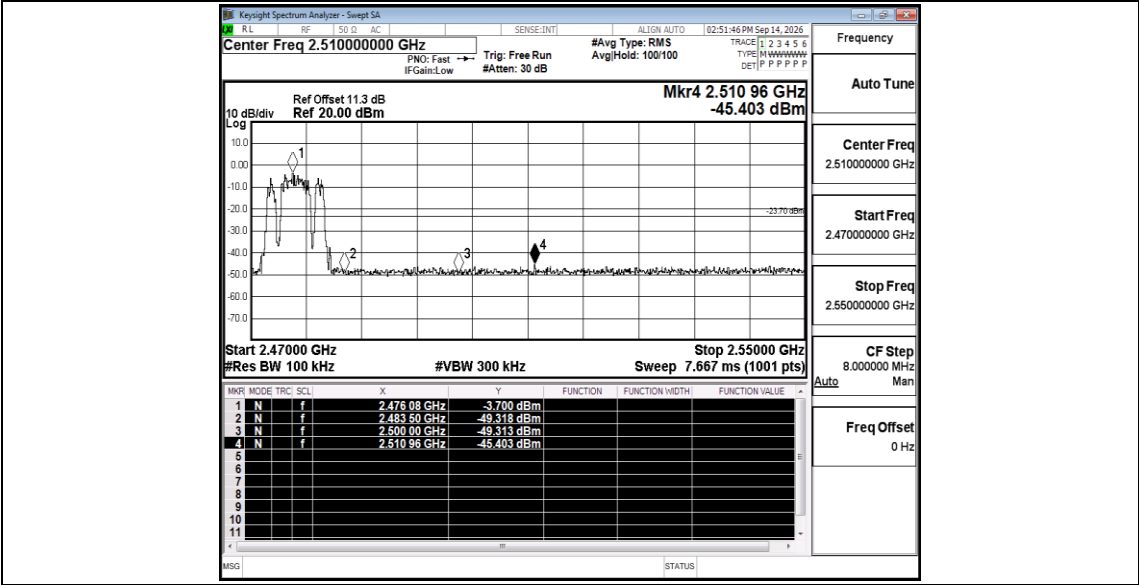
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

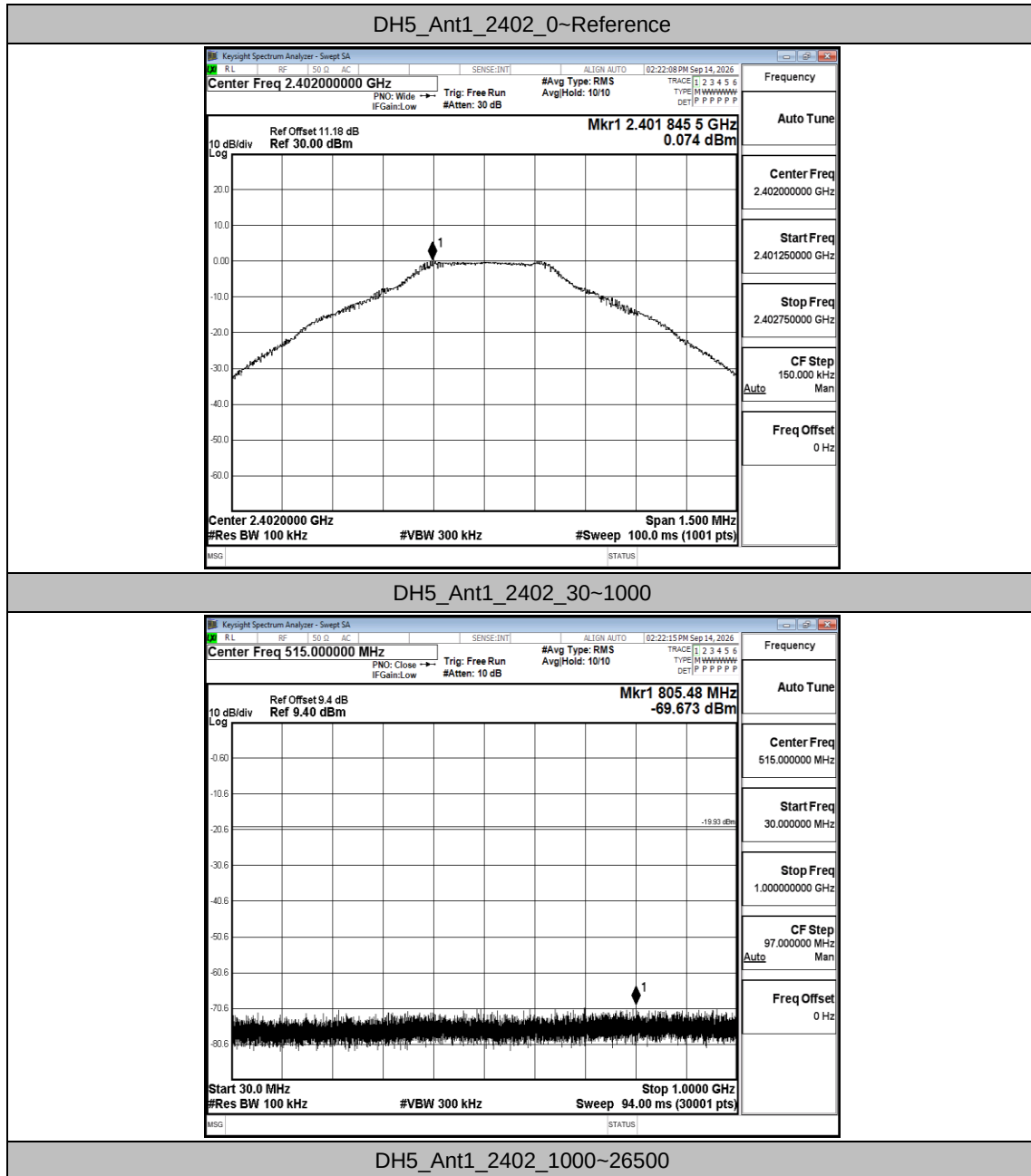


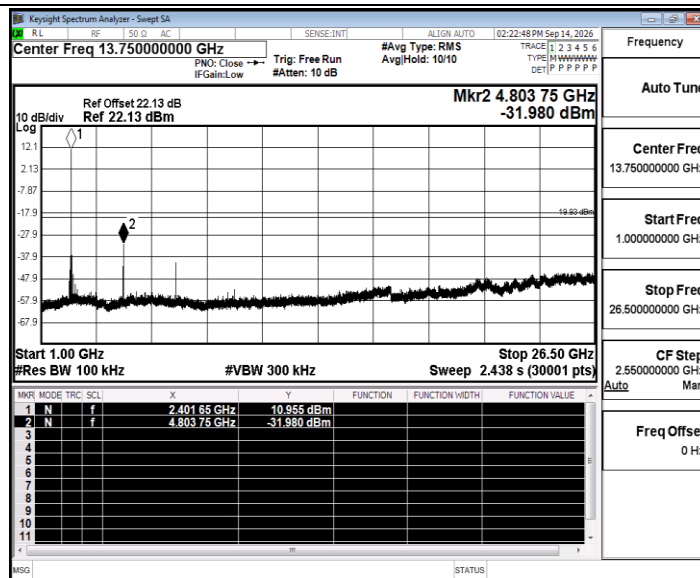
A.7 Conducted Spurious Emission

Test Result

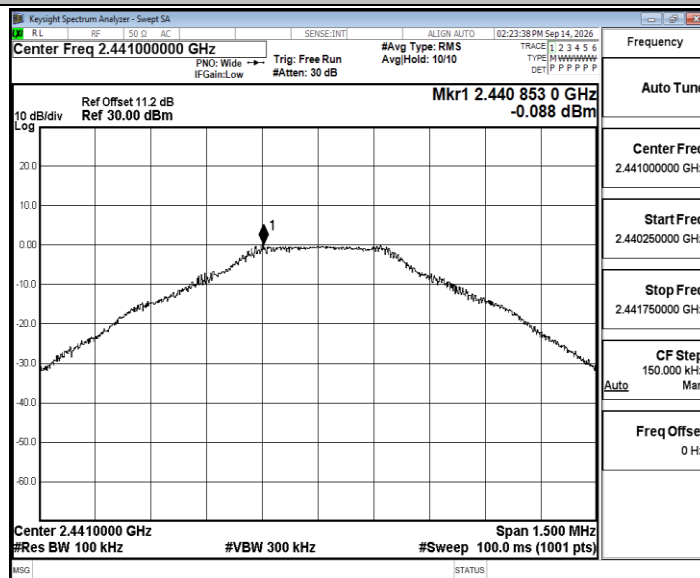
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.07	0.07	---	PASS
			30~1000	0.07	-69.67	≤-19.93	PASS
			1000~26500	0.07	-31.98	≤-19.93	PASS
		2441	Reference	-0.09	-0.09	---	PASS
			30~1000	-0.09	-69.92	≤-20.09	PASS
			1000~26500	-0.09	-31.18	≤-20.09	PASS
		2480	Reference	-0.23	-0.23	---	PASS
			30~1000	-0.23	-69.58	≤-20.23	PASS
			1000~26500	-0.23	-30.97	≤-20.23	PASS
2DH5	Ant1	2402	Reference	0.06	0.06	---	PASS
			30~1000	0.06	-70.52	≤-19.94	PASS
			1000~26500	0.06	-36.96	≤-19.94	PASS
		2441	Reference	-0.09	-0.09	---	PASS
			30~1000	-0.09	-70.16	≤-20.09	PASS
			1000~26500	-0.09	-33.43	≤-20.09	PASS
		2480	Reference	-0.23	-0.23	---	PASS
			30~1000	-0.23	-69.88	≤-20.23	PASS
			1000~26500	-0.23	-30.62	≤-20.23	PASS
3DH5	Ant1	2402	Reference	0.05	0.05	---	PASS
			30~1000	0.05	-68.87	≤-19.95	PASS
			1000~26500	0.05	-31.27	≤-19.95	PASS
		2441	Reference	-0.09	-0.09	---	PASS
			30~1000	-0.09	-69.91	≤-20.09	PASS
			1000~26500	-0.09	-34.63	≤-20.09	PASS
		2480	Reference	-0.21	-0.21	---	PASS
			30~1000	-0.21	-69.52	≤-20.21	PASS
			1000~26500	-0.21	-34.65	≤-20.21	PASS

Test Graphs

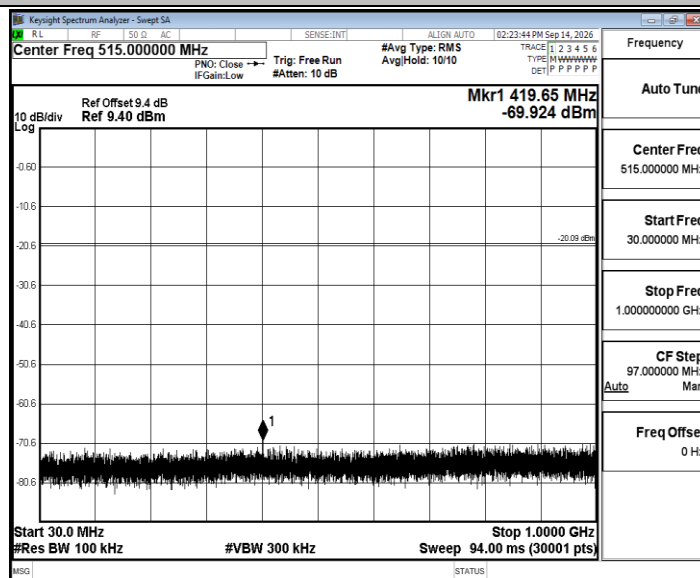




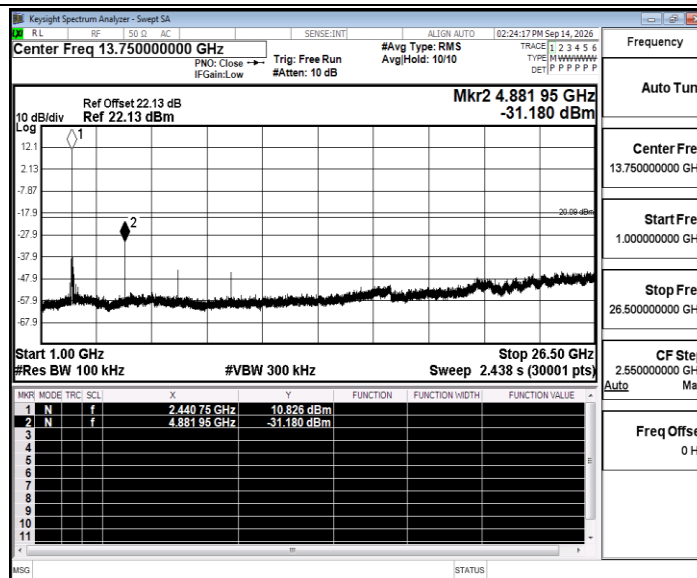
DH5_Ant1_2441_0~Reference



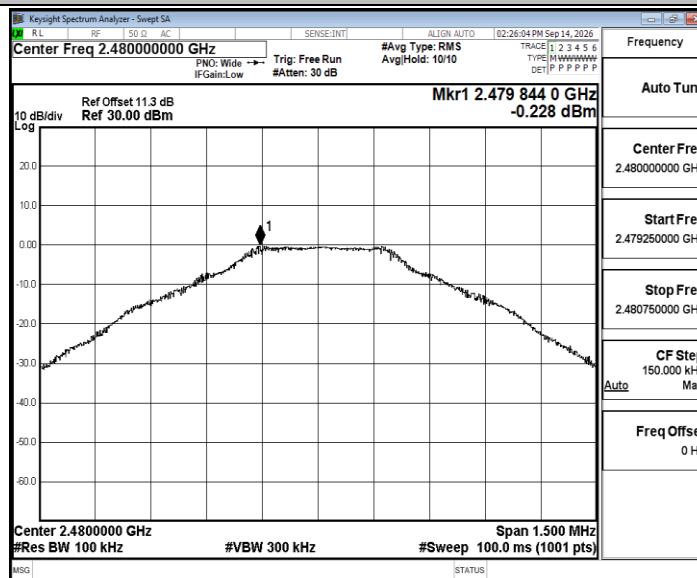
DH5_Ant1_2441_30~1000



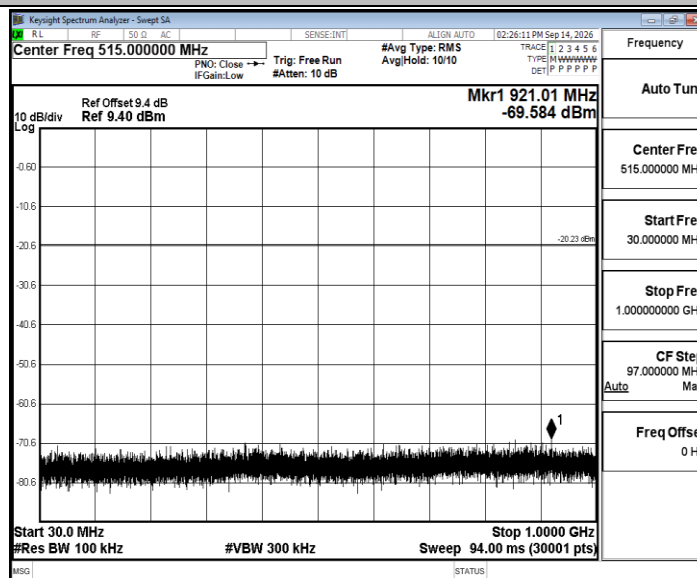
DH5_Ant1_2441_1000~26500



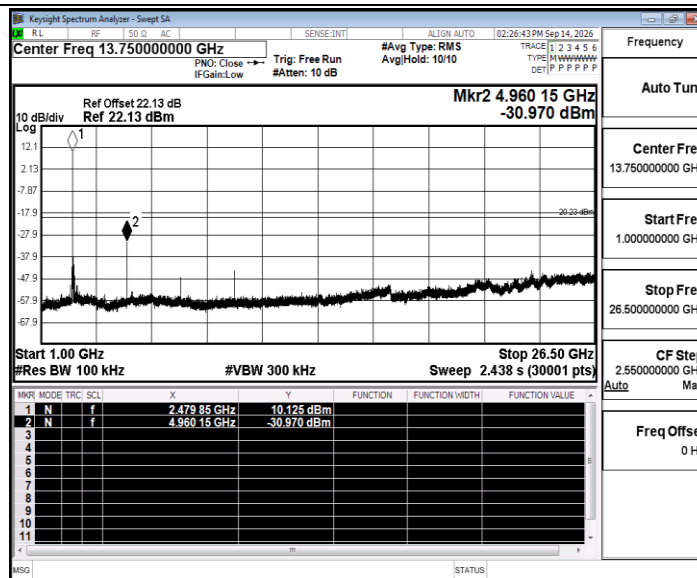
DH5_Ant1_2480_0~Reference



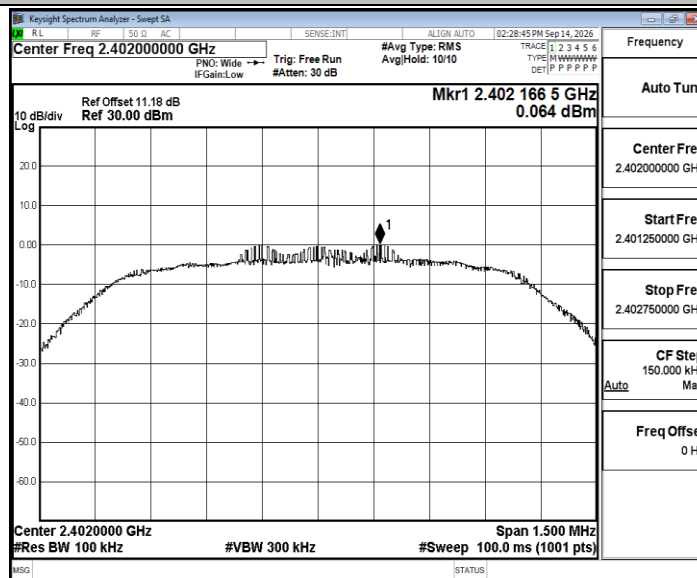
DH5_Ant1_2480_30~1000



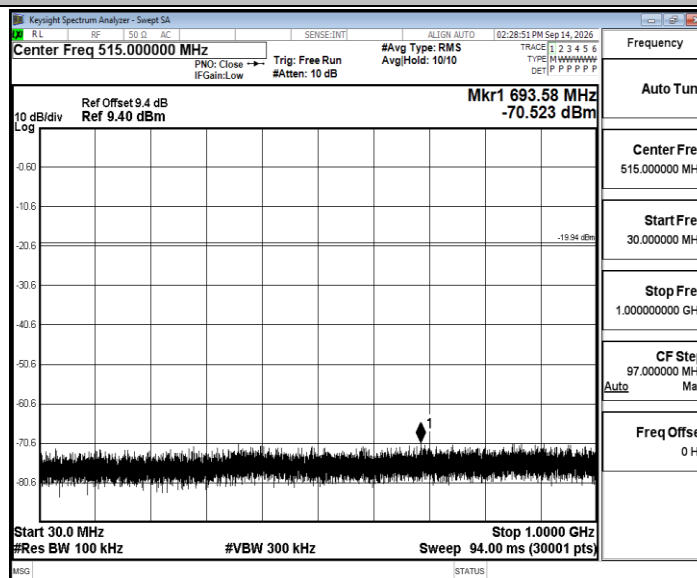
DH5_Ant1_2480_1000~26500



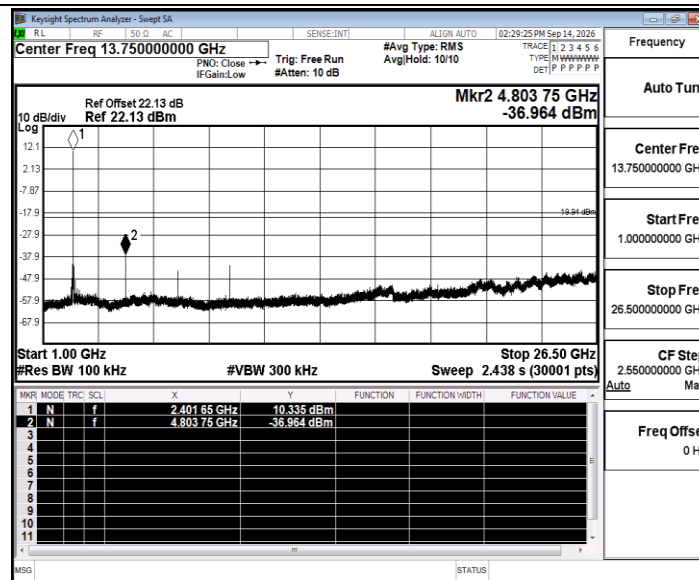
2DH5_Ant1_2402_0~Reference



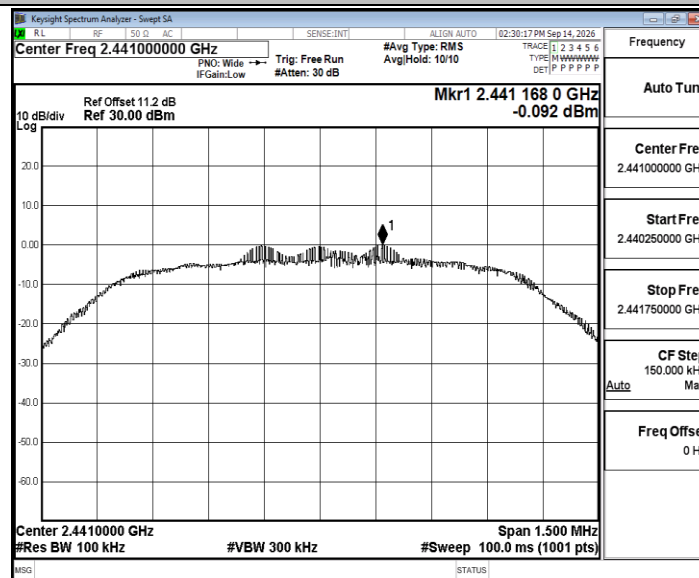
2DH5_Ant1_2402_30~1000



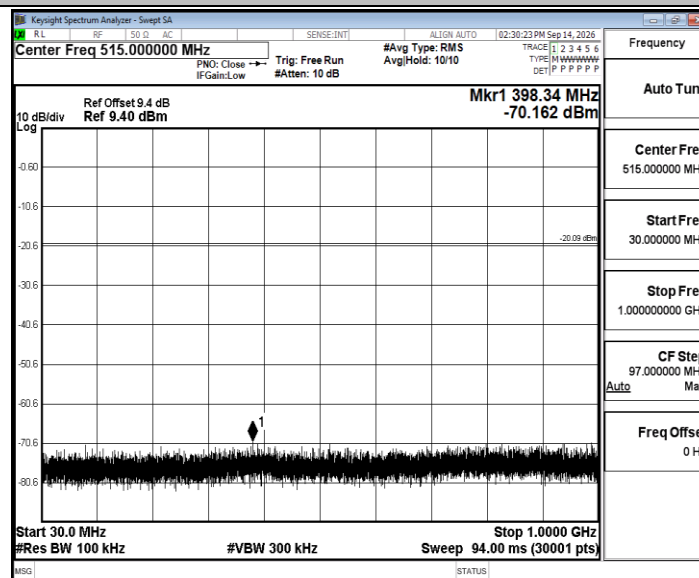
2DH5_Ant1_2402_1000~26500



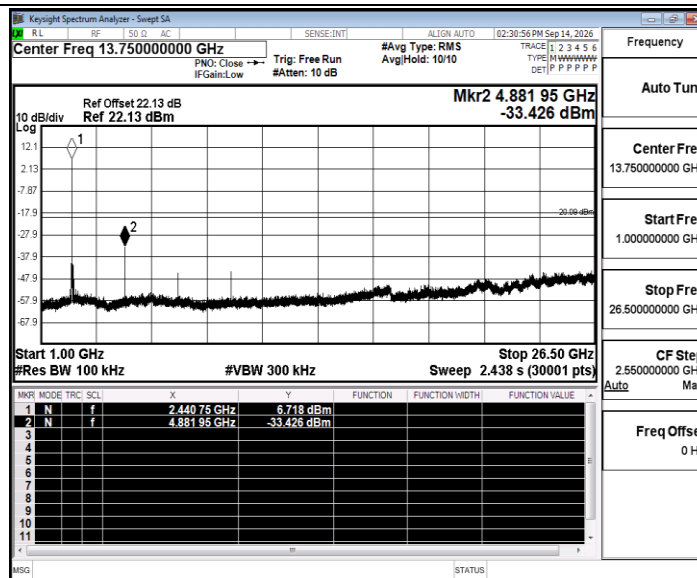
2DH5_Ant1_2441_0~Reference



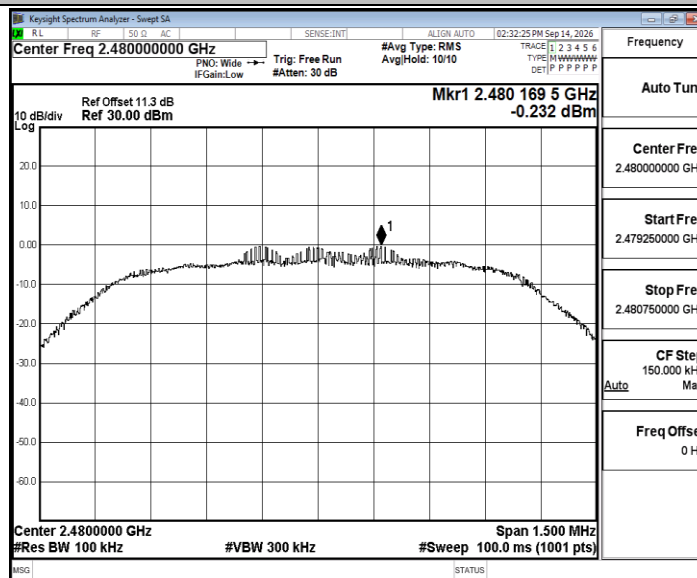
2DH5_Ant1_2441_30~1000



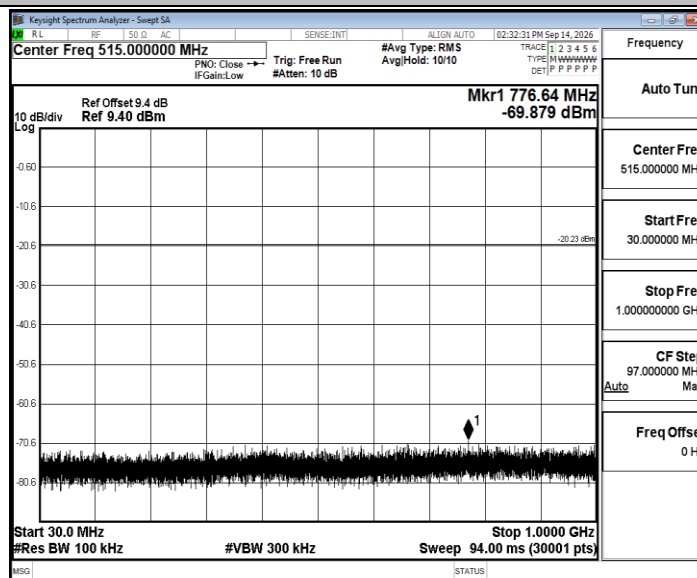
2DH5_Ant1_2441_1000~26500



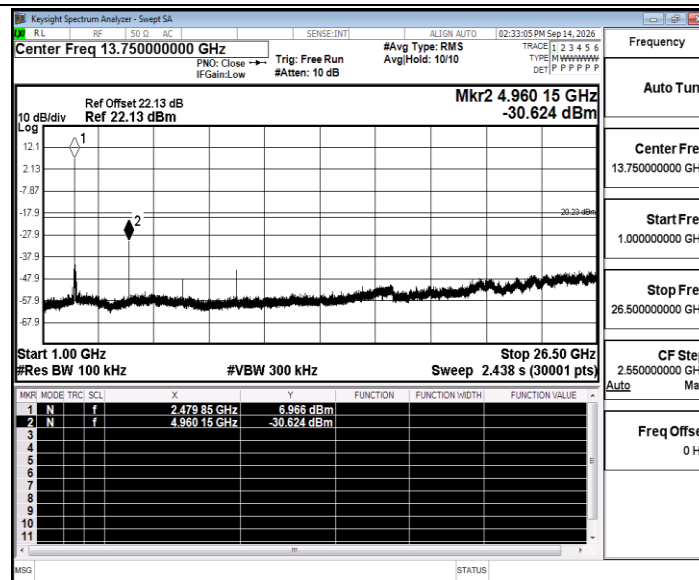
2DH5_Ant1_2480_0~Reference



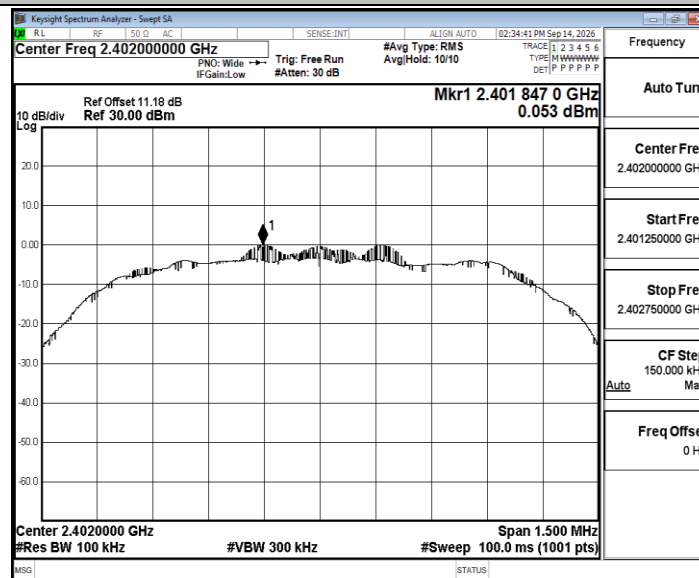
2DH5_Ant1_2480_30~1000



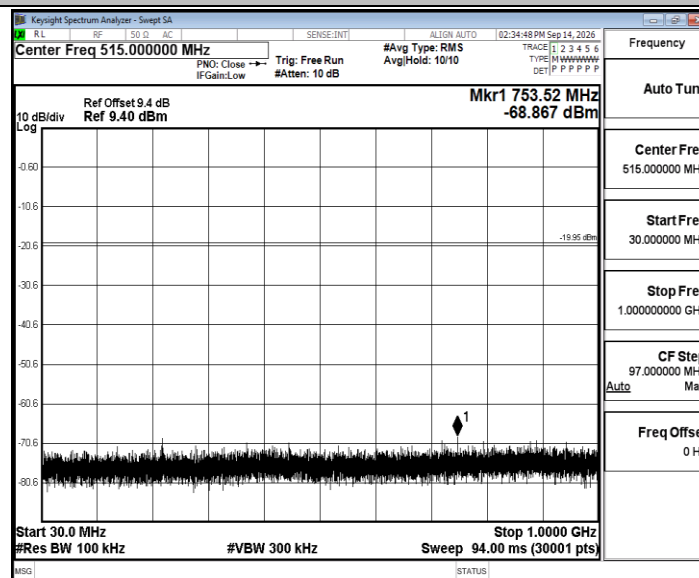
2DH5_Ant1_2480_1000~26500



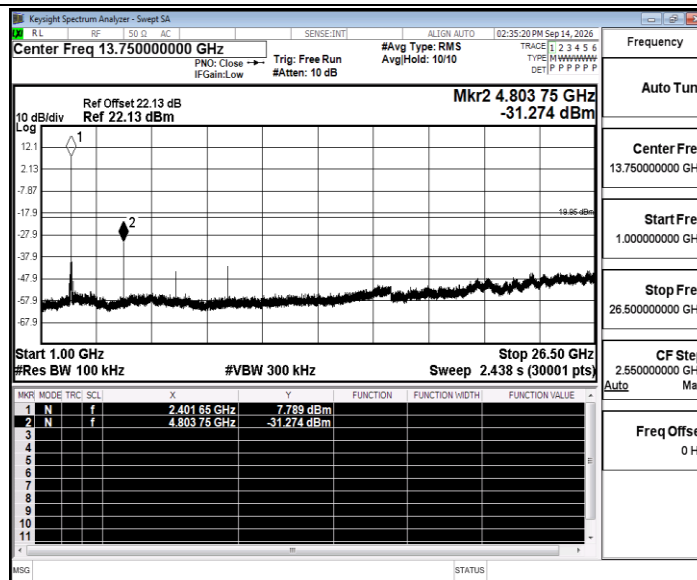
3DH5_Ant1_2402_0~Reference



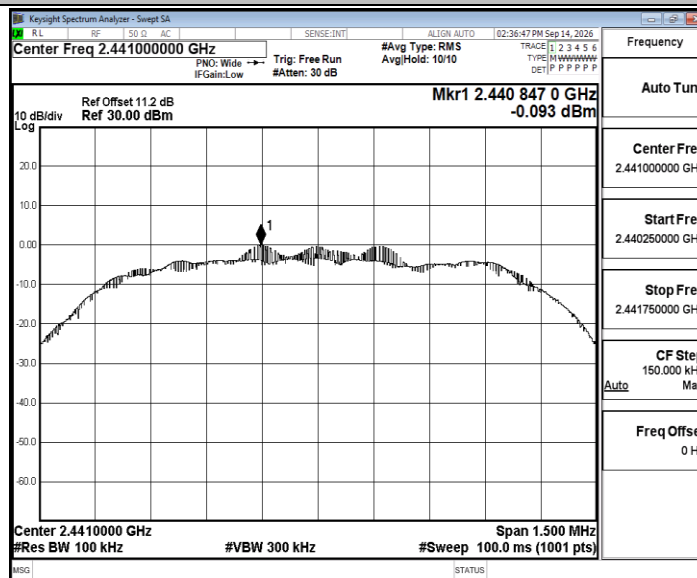
3DH5_Ant1_2402_30~1000



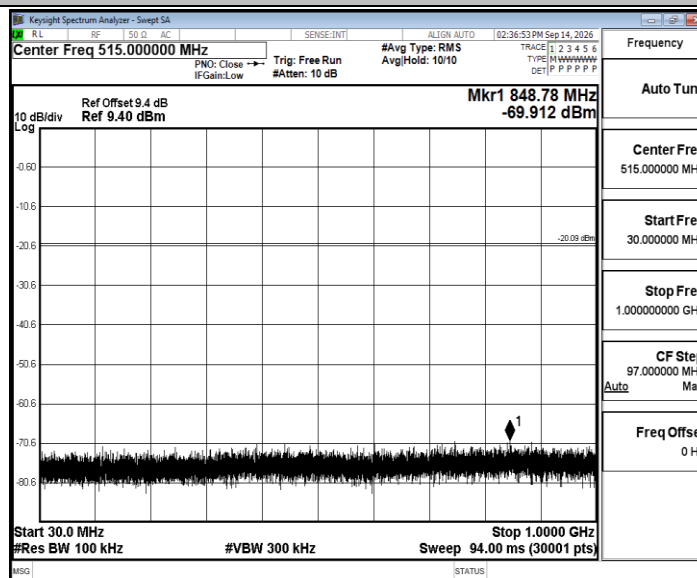
3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500