

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: love island speaker

Test Model: ESPMULVI127

Environmental Conditions

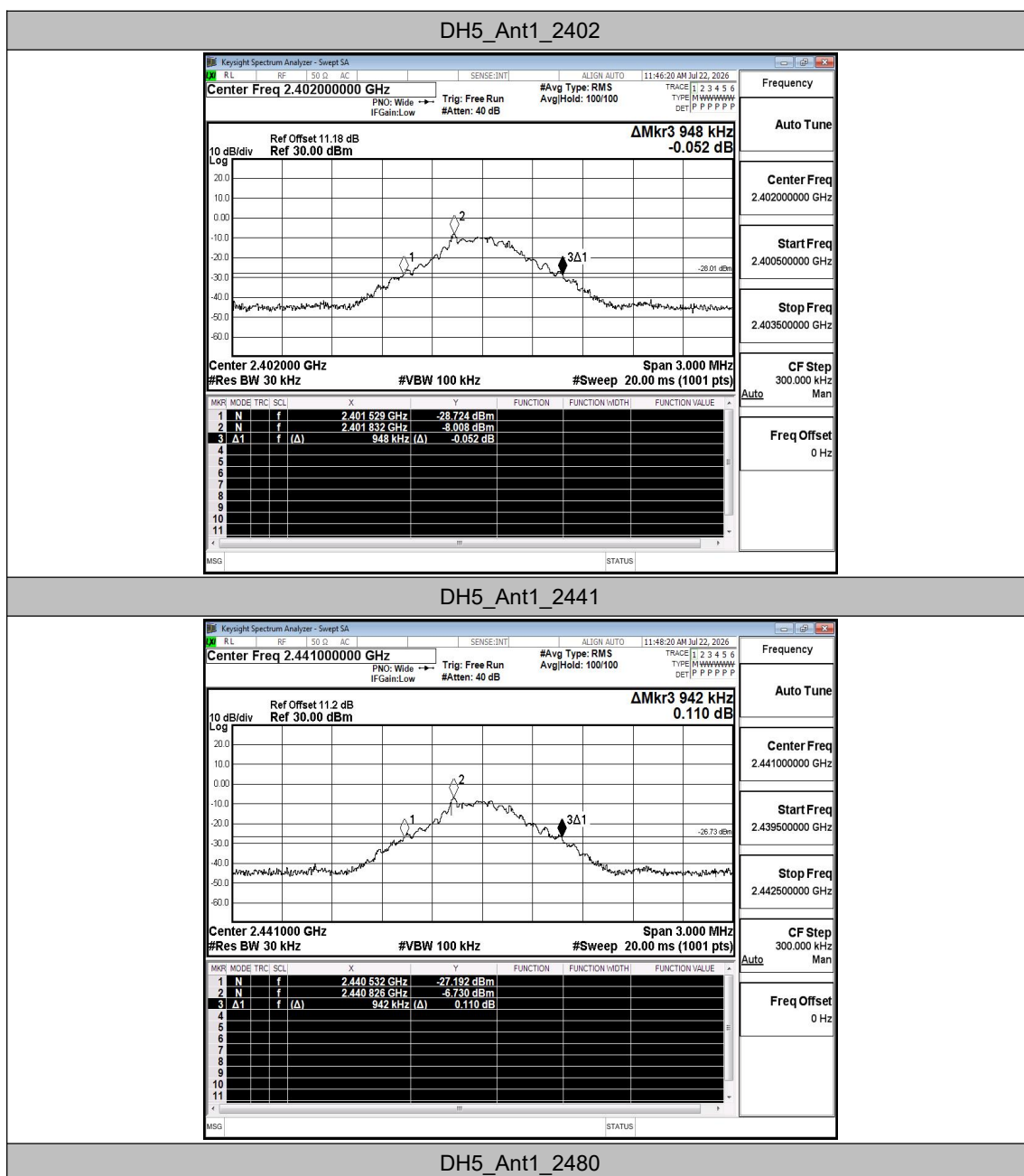
Temperature:	24.3°C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

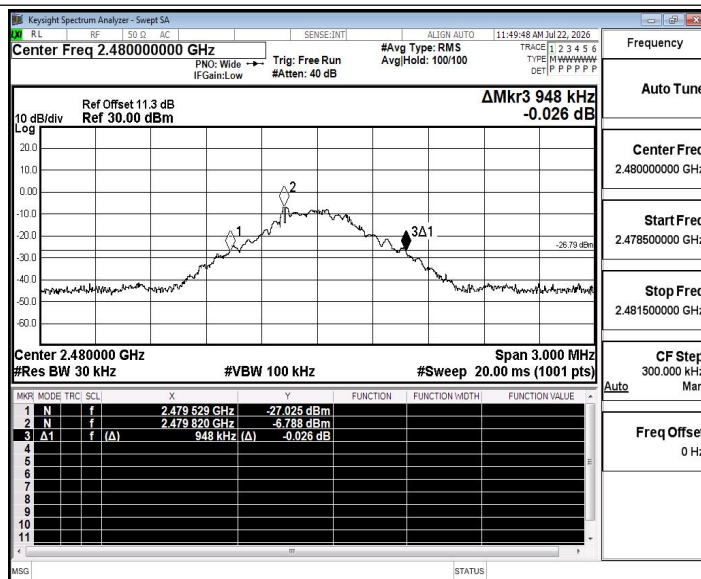
A.1 20dB Emission Bandwidth

Test Result

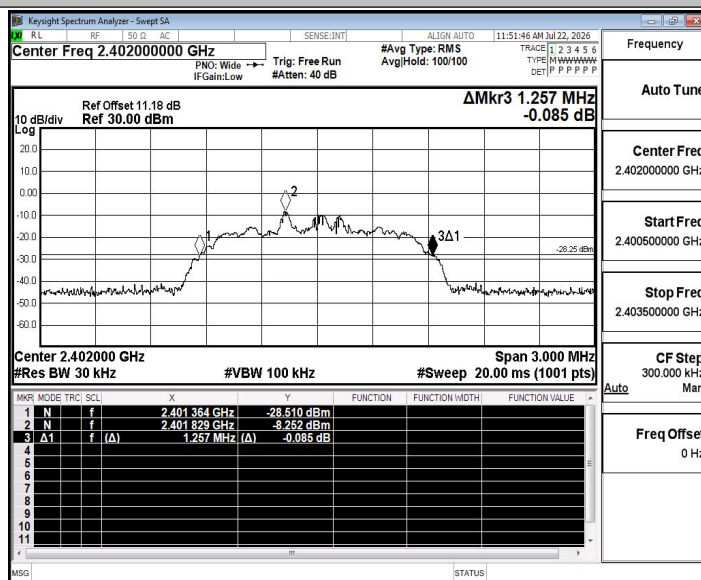
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.529	2402.477	---	---
		2441	0.942	2440.532	2441.474	---	---
		2480	0.948	2479.529	2480.477	---	---
2DH5	Ant1	2402	1.257	2401.364	2402.621	---	---
		2441	1.275	2440.361	2441.636	---	---
		2480	1.260	2479.364	2480.624	---	---
3DH5	Ant1	2402	1.254	2401.358	2402.612	---	---
		2441	1.260	2440.352	2441.612	---	---
		2480	1.260	2479.355	2480.615	---	---

Test Graphs

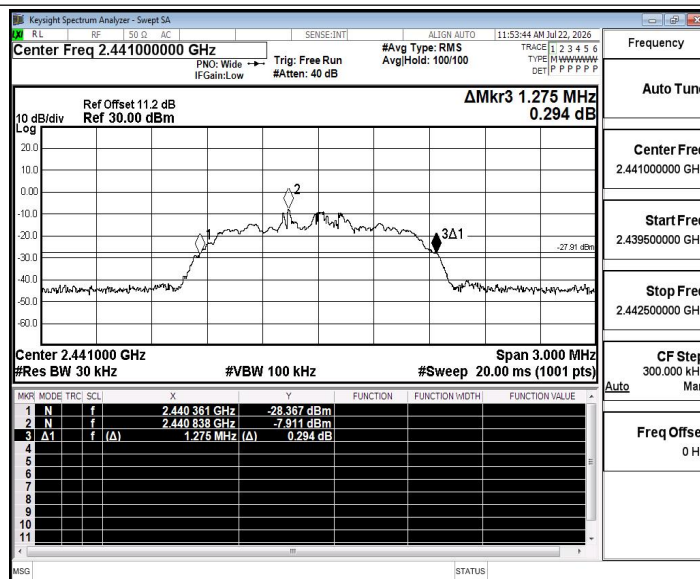




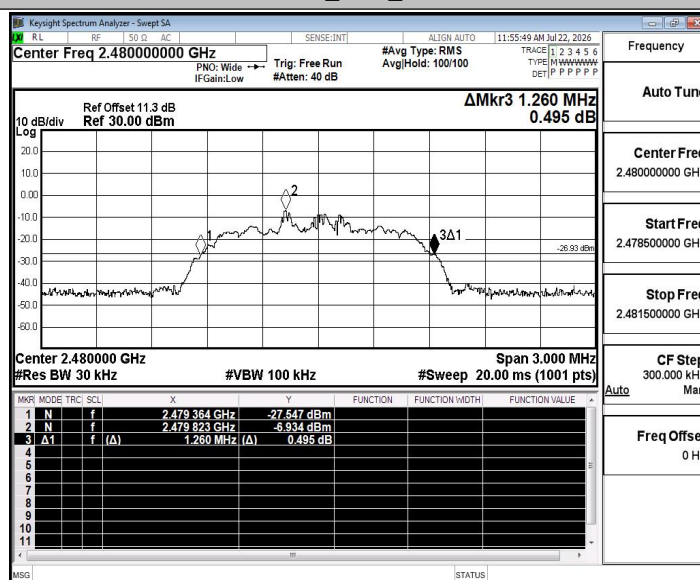
2DH5_Ant1_2402



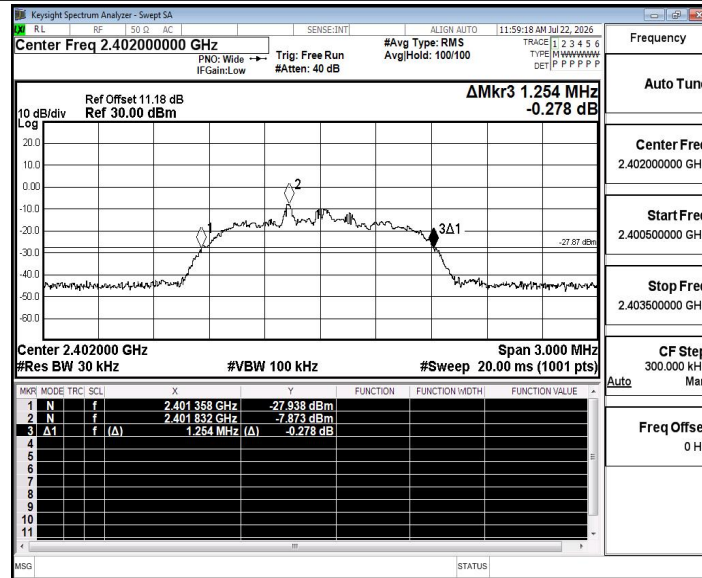
2DH5_Ant1_2441



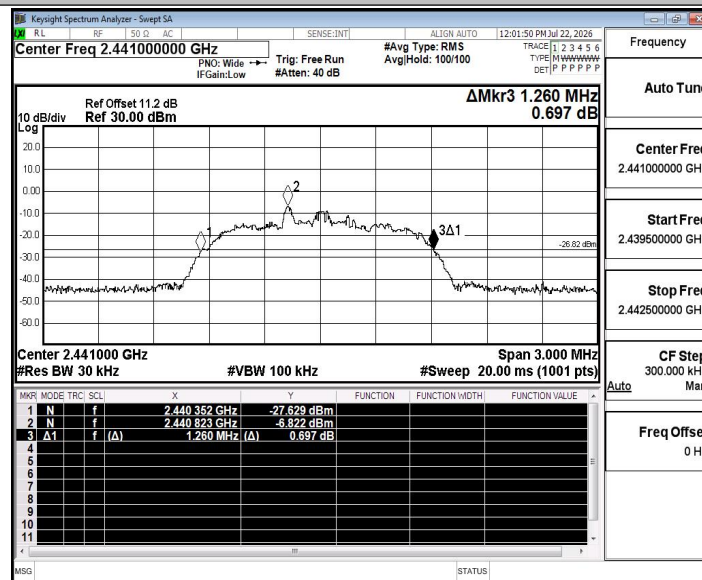
2DH5_Ant1_2480



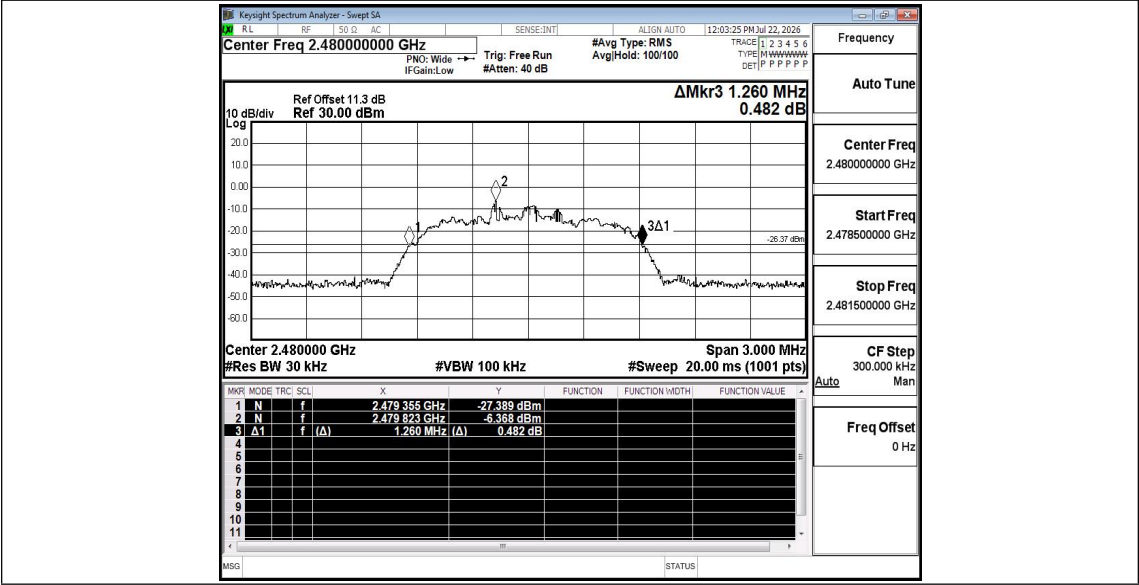
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



A.2 Maximum Peak conducted output power

Test Result

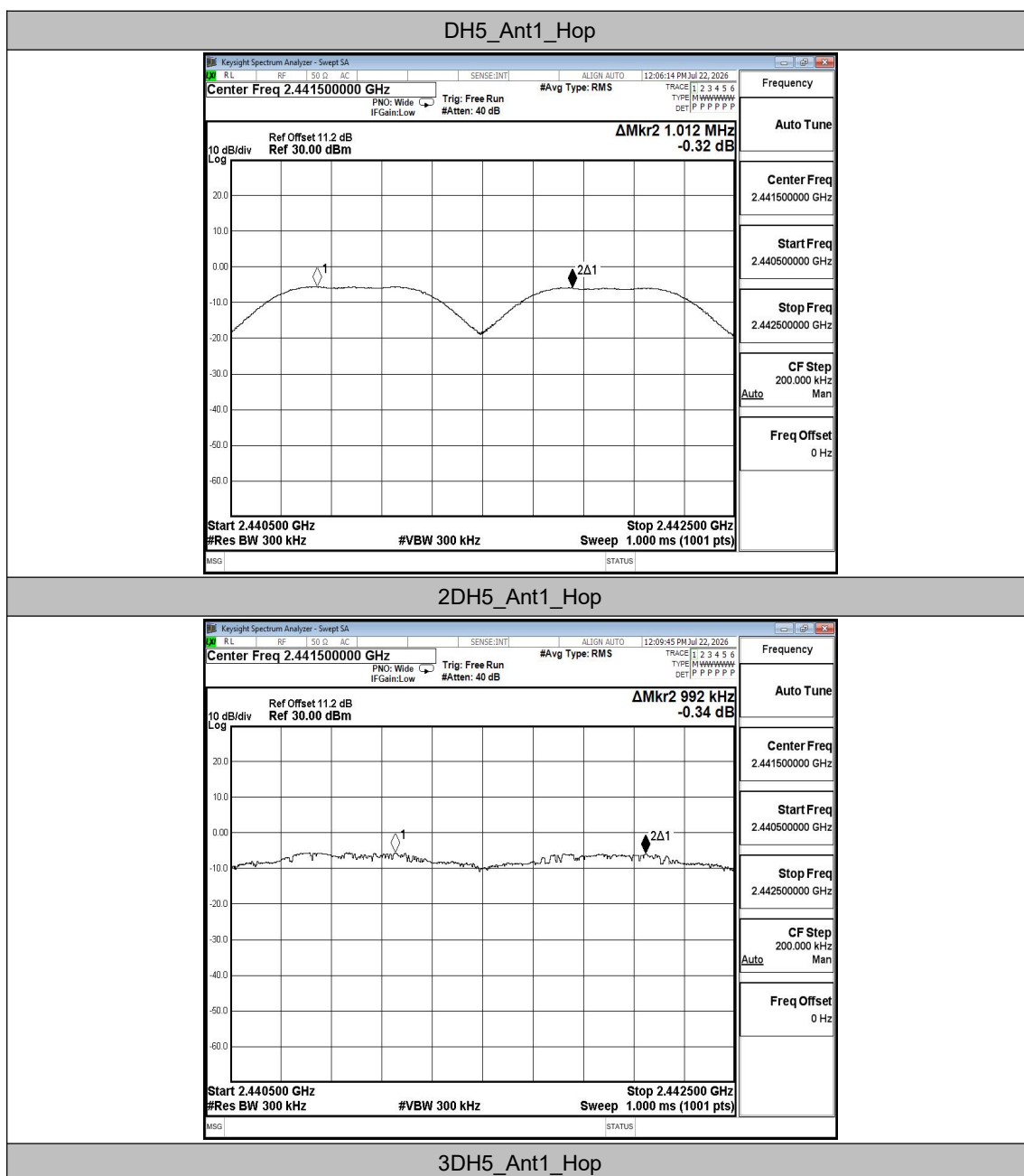
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.09	≤30	PASS
		2441	1.32	≤30	PASS
		2480	0.69	≤30	PASS
2DH5	Ant1	2402	-1.73	≤20.97	PASS
		2441	0.65	≤20.97	PASS
		2480	-0.15	≤20.97	PASS
3DH5	Ant1	2402	-1.87	≤20.97	PASS
		2441	1.03	≤20.97	PASS
		2480	0.10	≤20.97	PASS

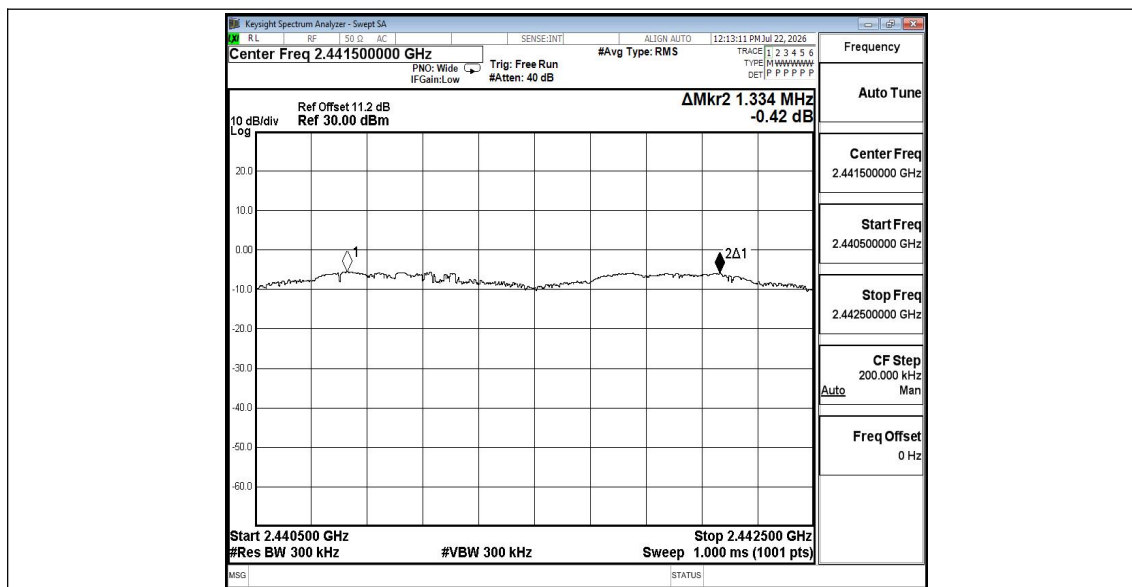
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.012	≥0.632	PASS
2DH5	Ant1	Hop	0.992	≥0.850	PASS
3DH5	Ant1	Hop	1.334	≥0.840	PASS

Test Graphs



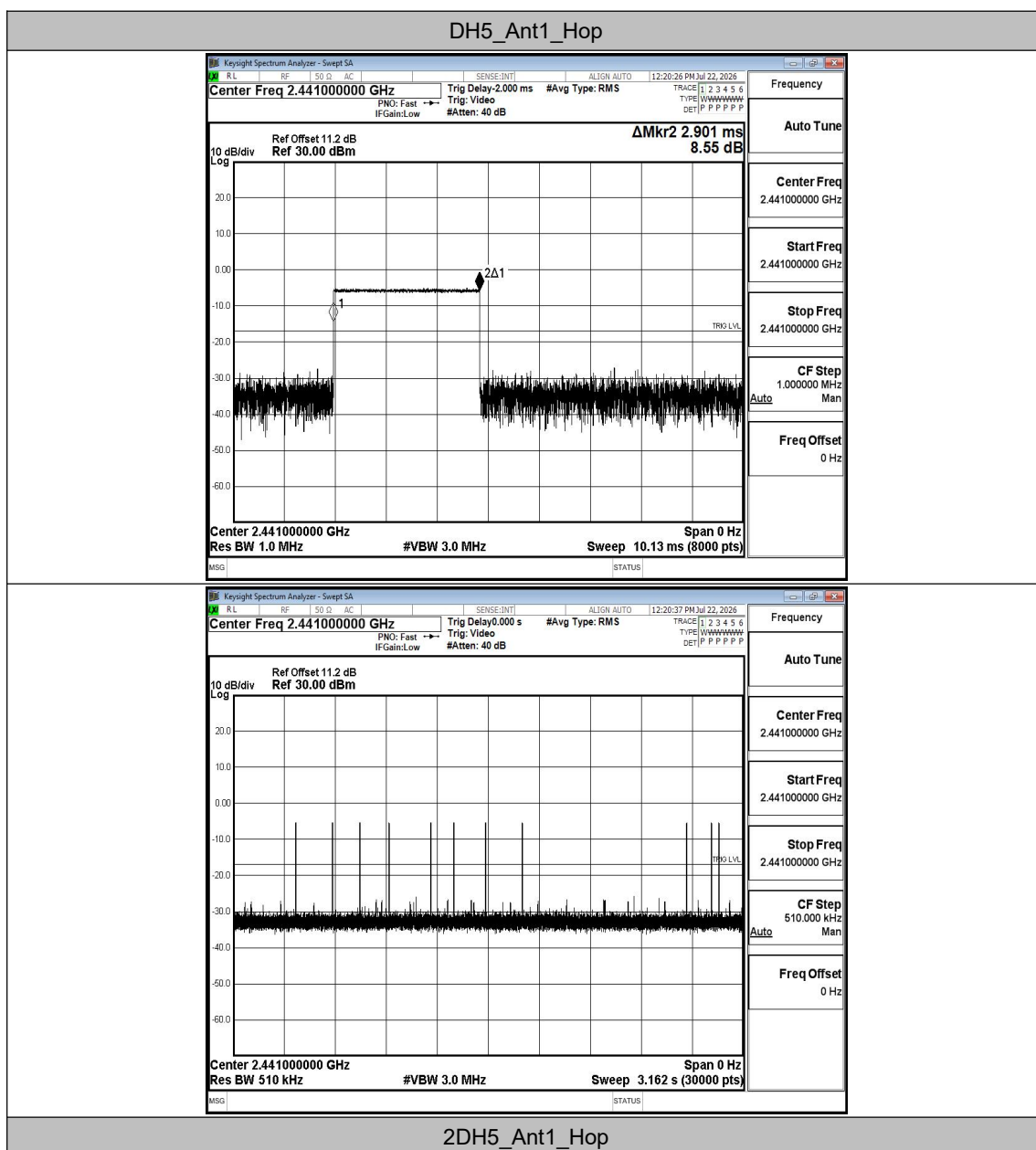


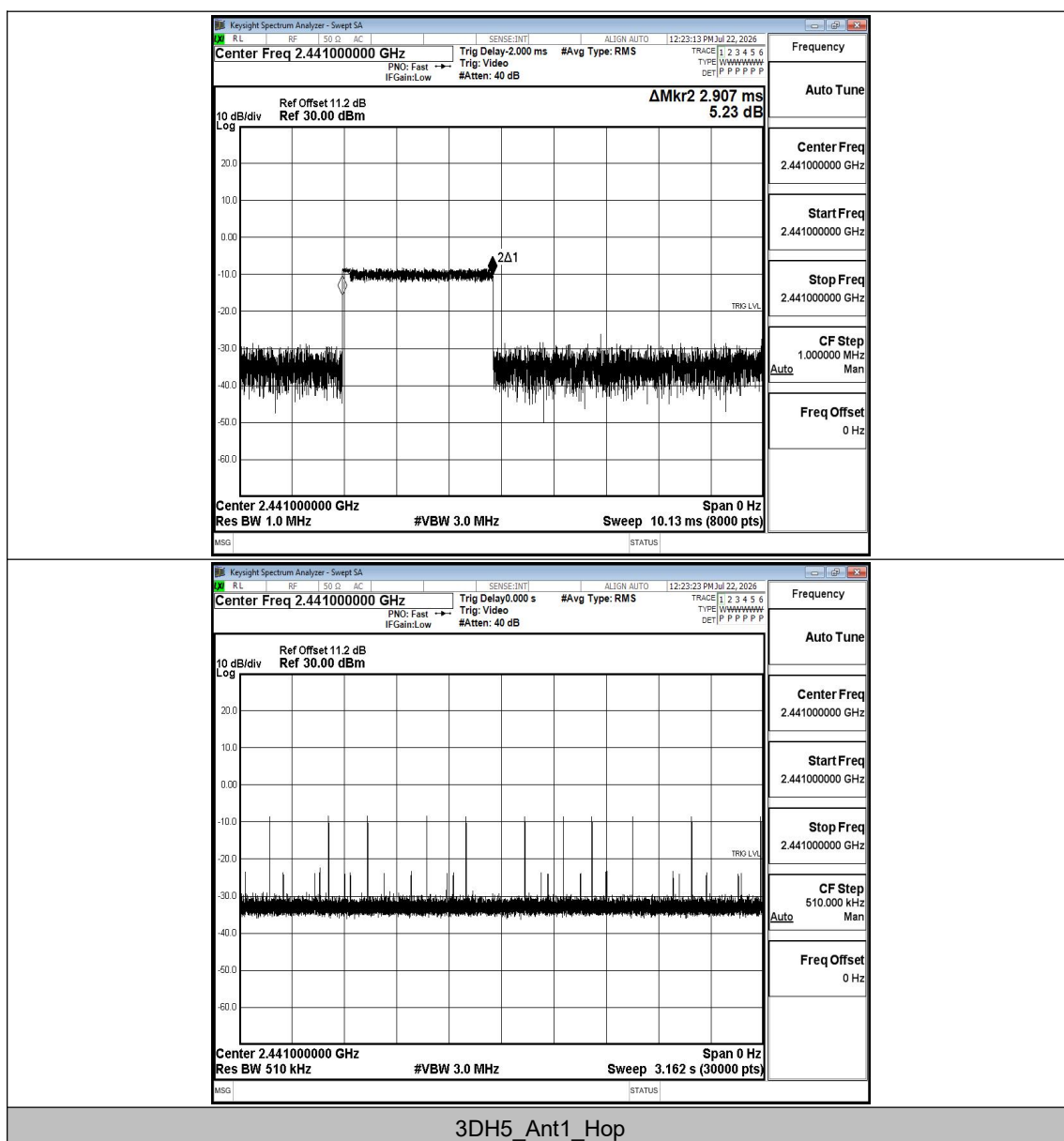
A.4 Time of occupancy

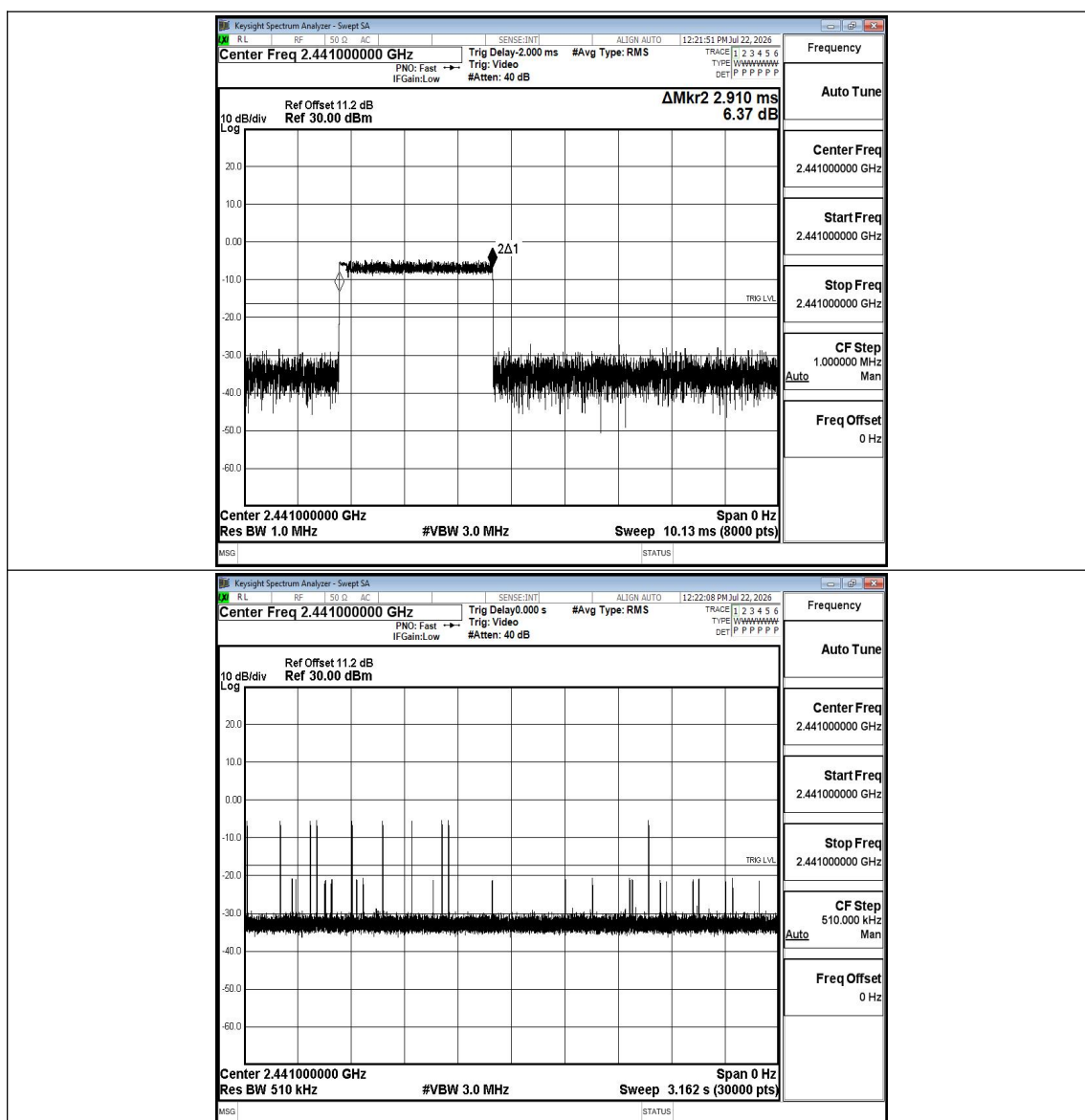
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.901	120	0.348	≤0.4	PASS
2DH5	Ant1	Hop	2.907	120	0.349	≤0.4	PASS
3DH5	Ant1	Hop	2.910	110	0.32	≤0.4	PASS

Test Graphs





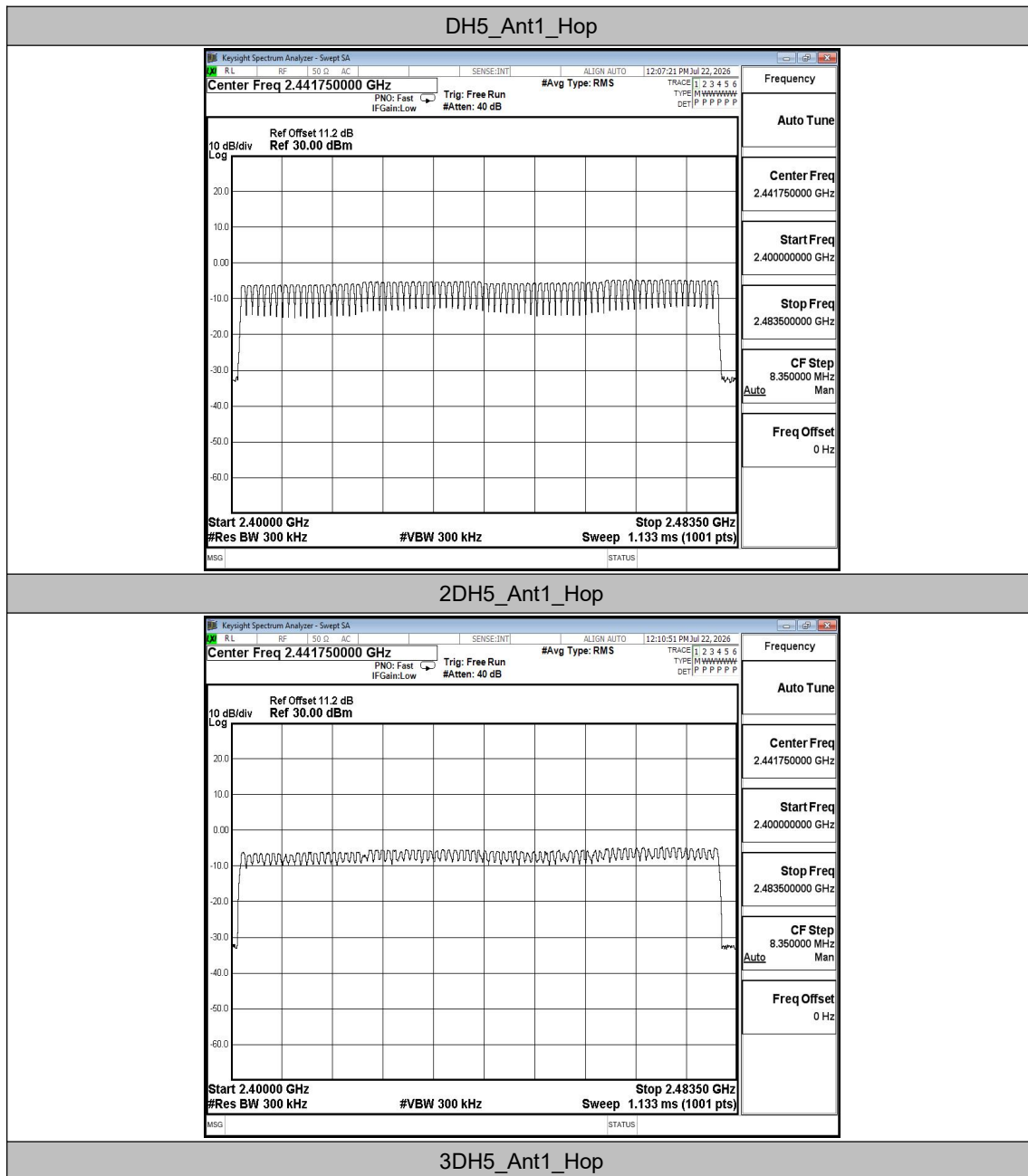


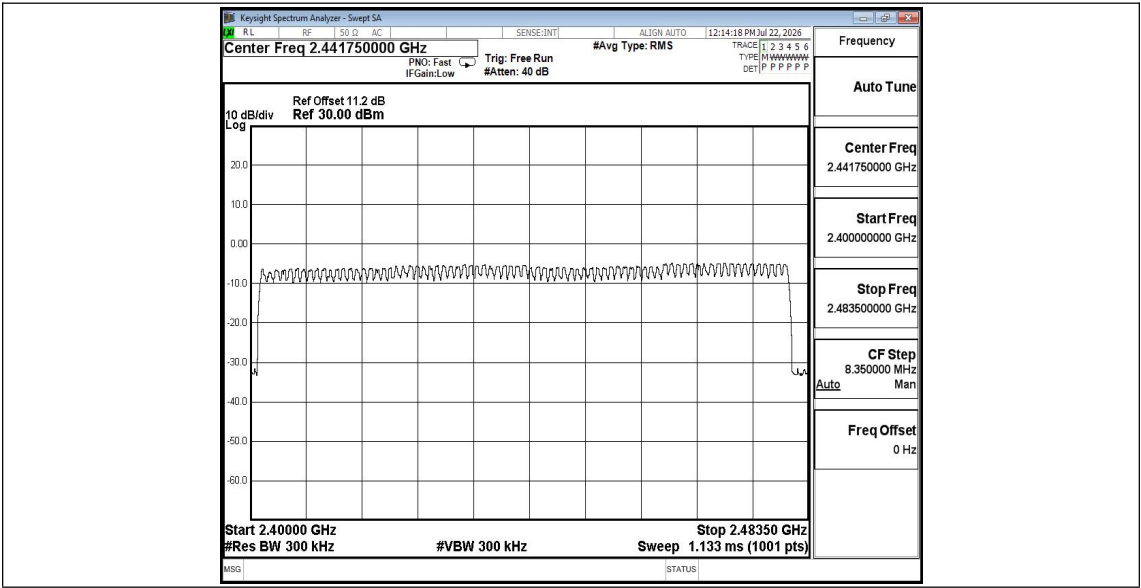
A.5 Number of hopping channels

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



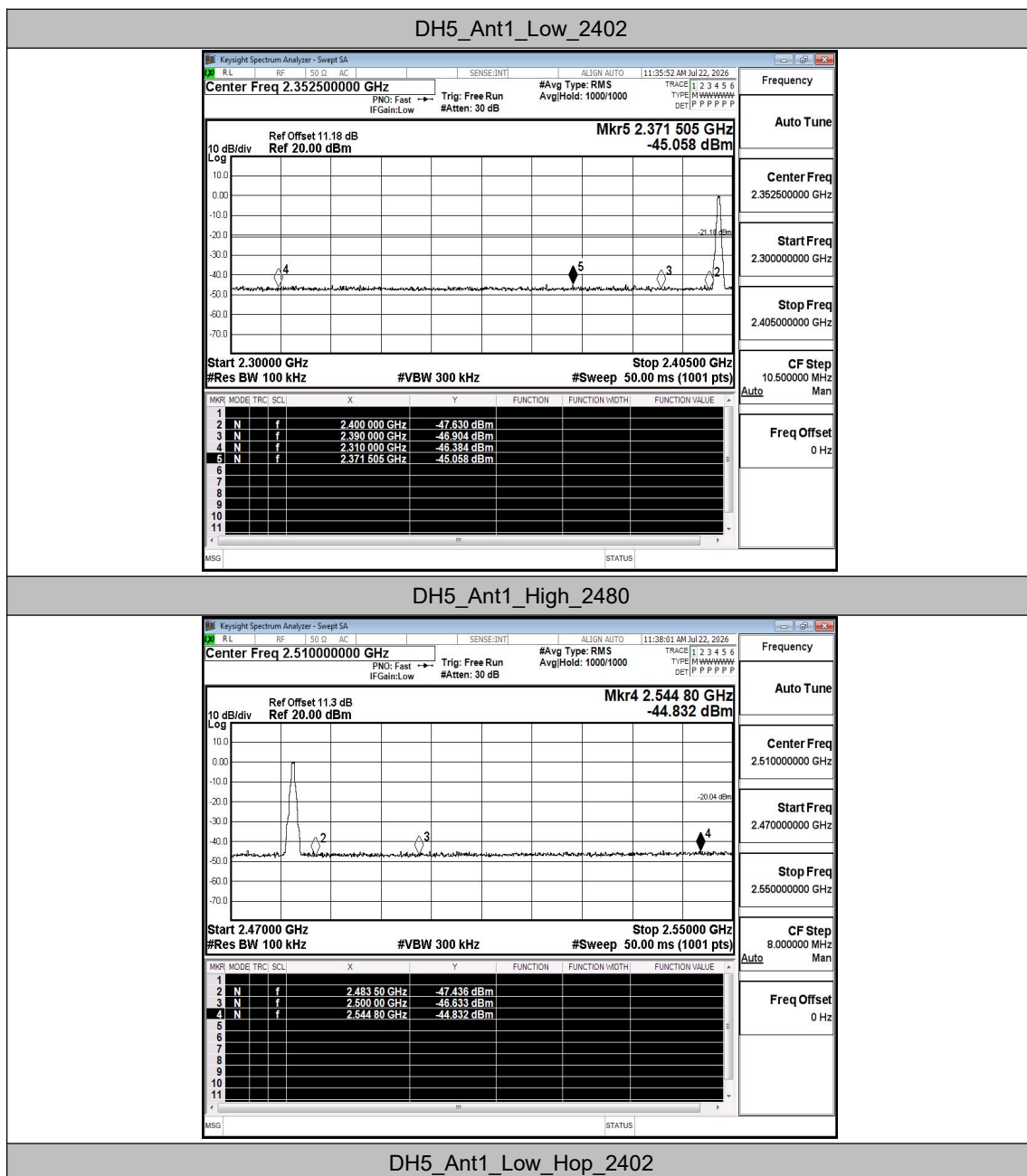


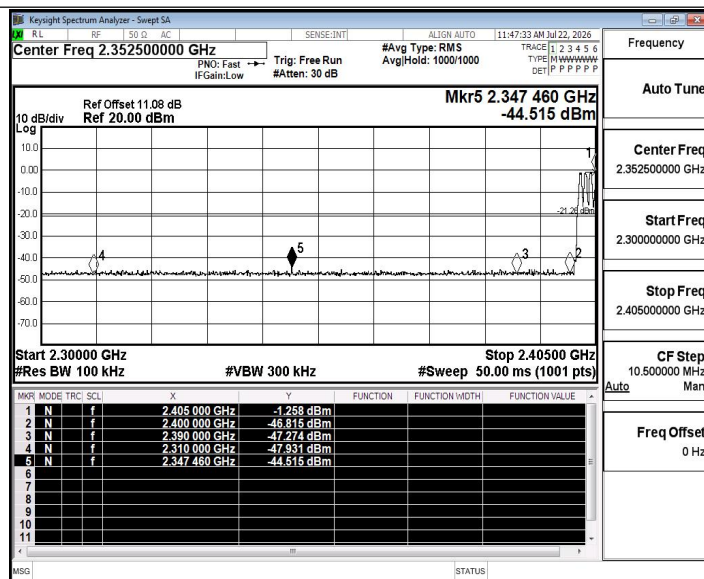
A.6 Band edge measurements

Test Result

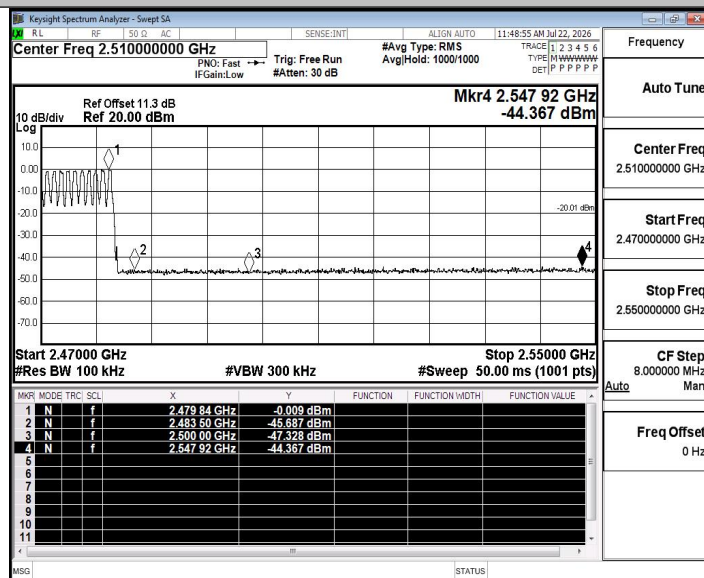
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.18	-45.06	≤-21.18	PASS
		High	2480	-0.04	-44.83	≤-20.04	PASS
		Low	Hop_2402	-1.26	-44.52	≤-21.26	PASS
		High	Hop_2480	-0.01	-44.37	≤-20.01	PASS
2DH5	Ant1	Low	2402	-5.12	-45.05	≤-25.12	PASS
		High	2480	-2.65	-44.49	≤-22.65	PASS
		Low	Hop_2402	-1.67	-44.8	≤-21.67	PASS
		High	Hop_2480	-0.19	-44.09	≤-20.19	PASS
3DH5	Ant1	Low	2402	-4.86	-45.18	≤-24.86	PASS
		High	2480	-3.68	-44.37	≤-23.68	PASS
		Low	Hop_2402	-0.88	-45.33	≤-20.88	PASS
		High	Hop_2480	-0.47	-44.43	≤-20.47	PASS

Test Graphs

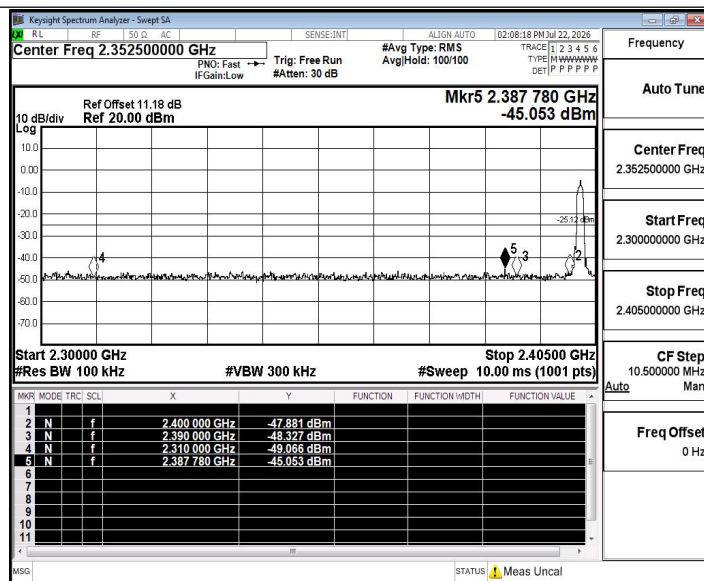




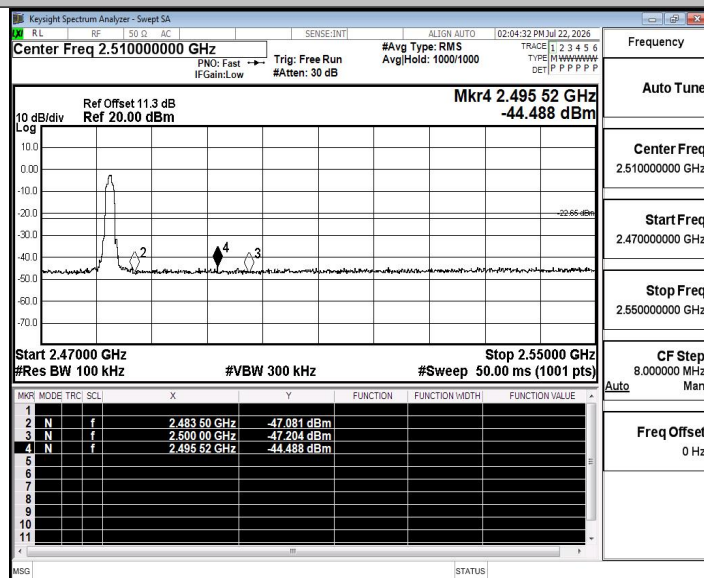
DH5_Ant1_High_Hop_2480



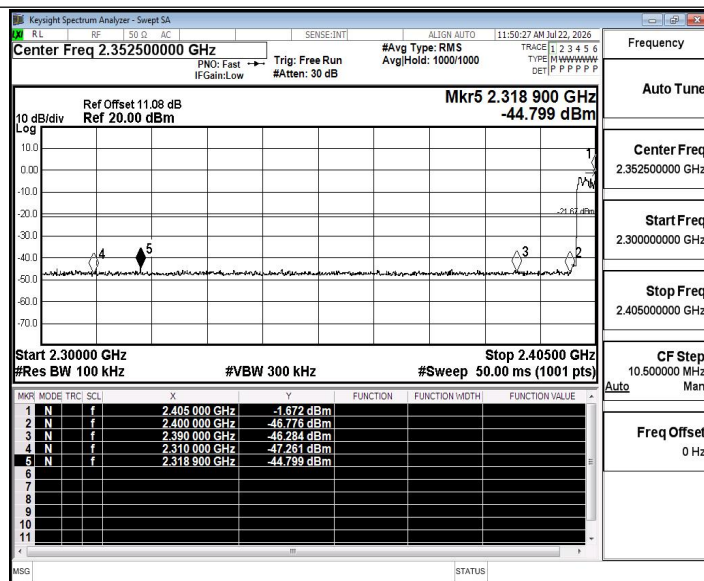
2DH5_Ant1_Low_2402



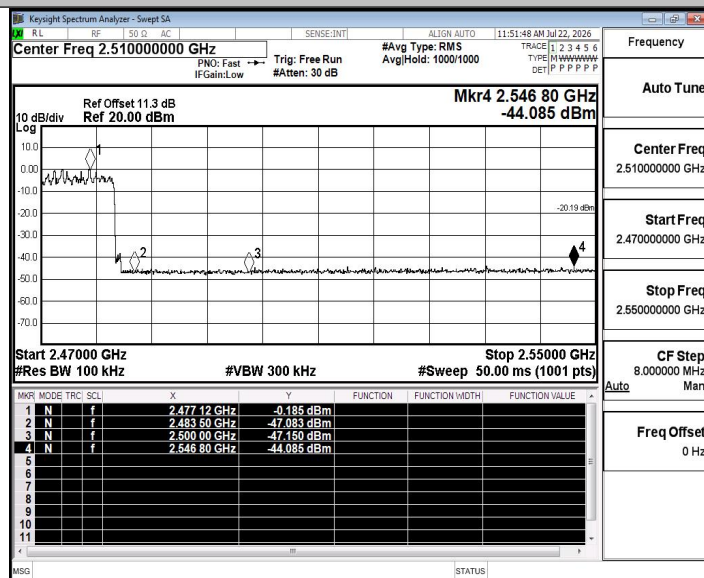
2DH5_Ant1_High_2480



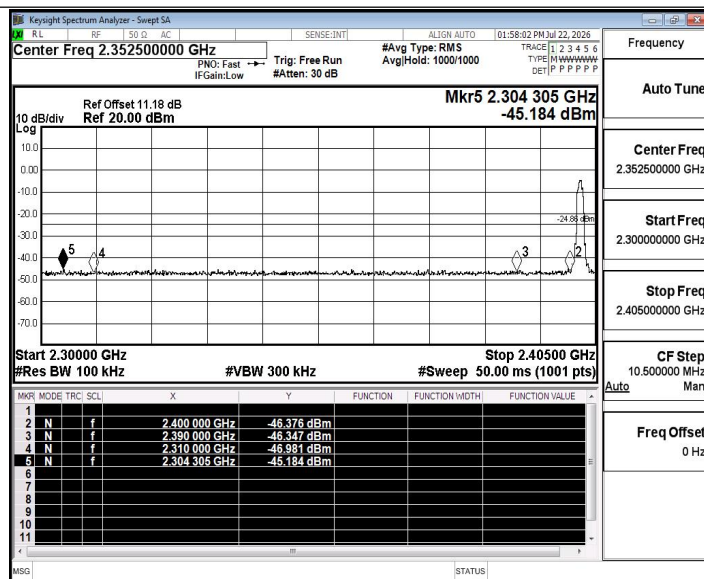
2DH5_Ant1_Low_Hop_2402



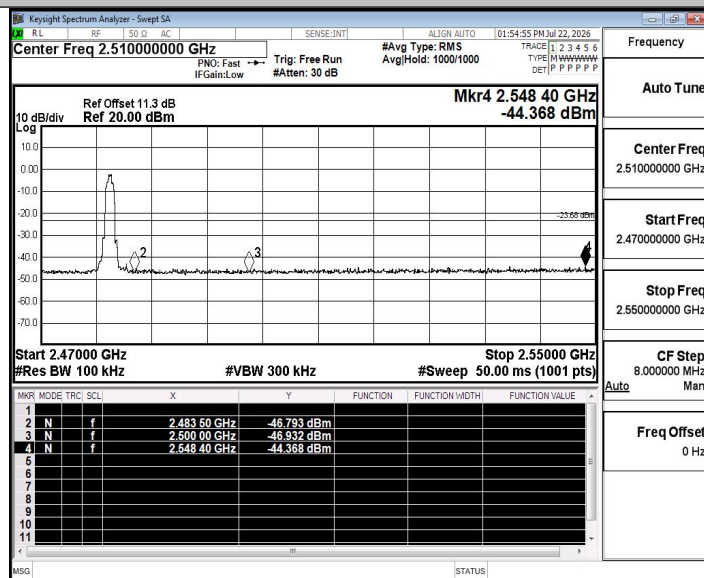
2DH5_Ant1_High_Hop_2480



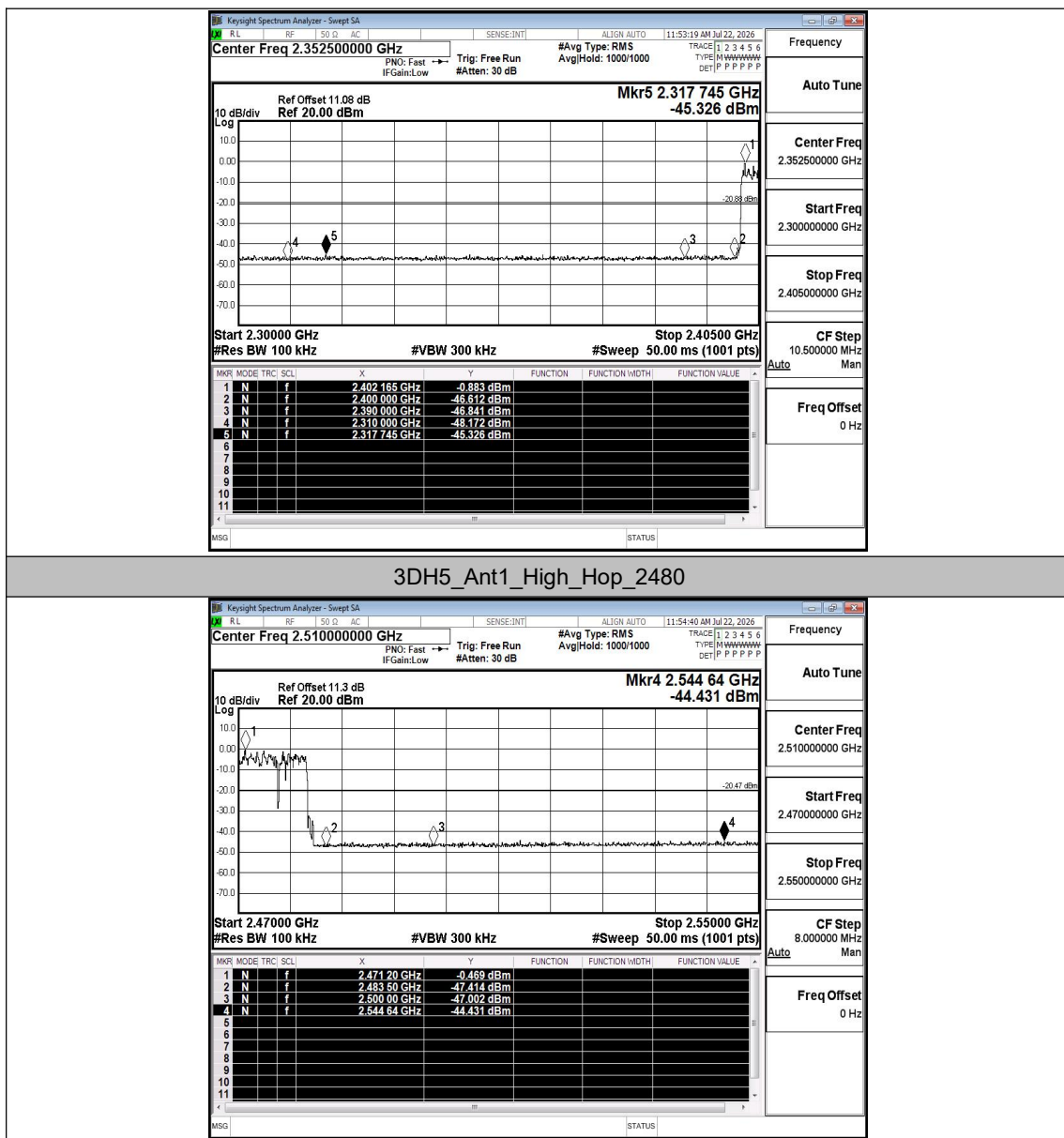
3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

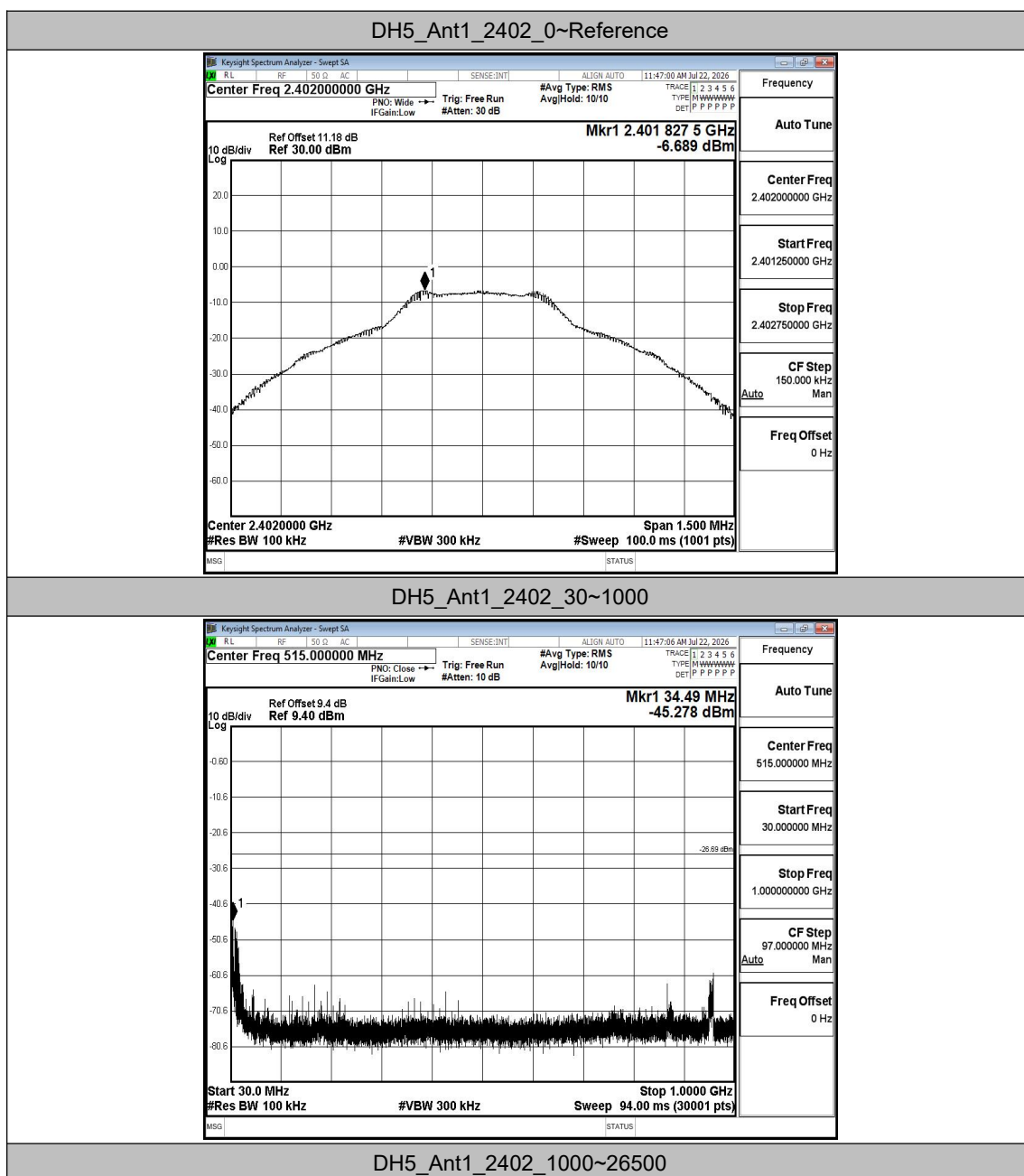


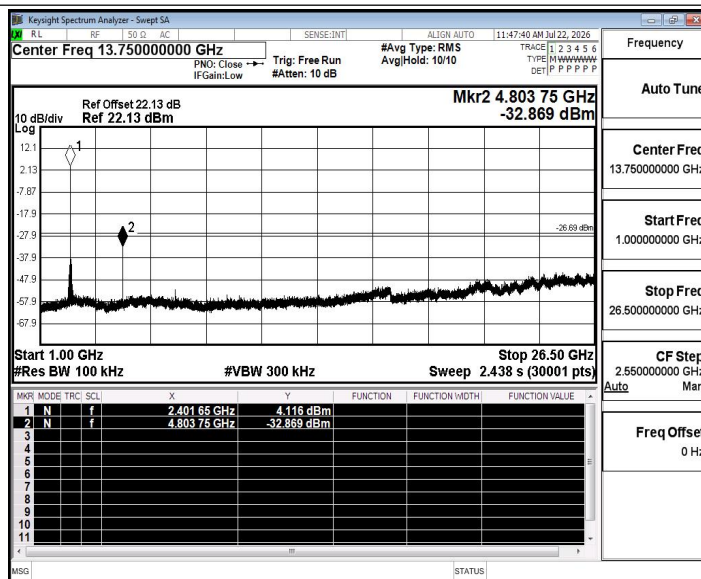
A.7 Conducted Spurious Emission

Test Result

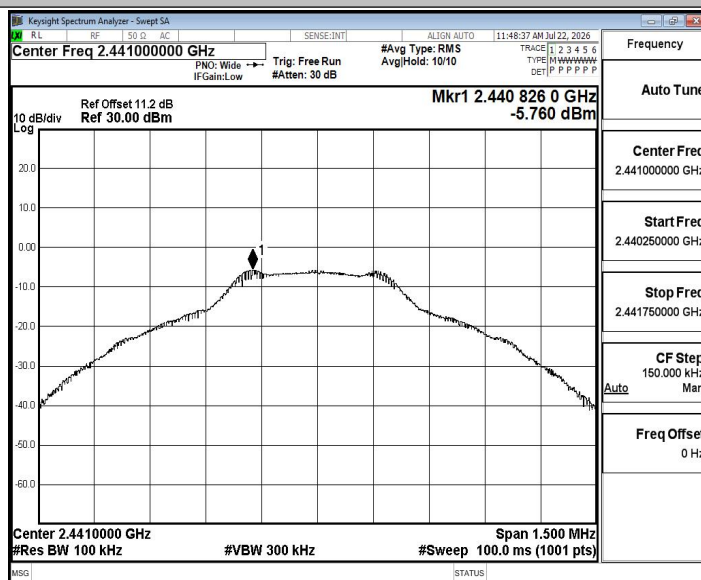
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-6.69	-6.69	---	PASS
			30~1000	-6.69	-45.28	≤-26.69	PASS
			1000~26500	-6.69	-32.87	≤-26.69	PASS
		2441	Reference	-5.76	-5.76	---	PASS
			30~1000	-5.76	-49.15	≤-25.76	PASS
			1000~26500	-5.76	-28.82	≤-25.76	PASS
		2480	Reference	-5.27	-5.27	---	PASS
			30~1000	-5.27	-43.84	≤-25.27	PASS
			1000~26500	-5.27	-28.31	≤-25.27	PASS
2DH5	Ant1	2402	Reference	-6.71	-6.71	---	PASS
			30~1000	-6.71	-43.63	≤-26.71	PASS
			1000~26500	-6.71	-31.1	≤-26.71	PASS
		2441	Reference	-5.78	-5.78	---	PASS
			30~1000	-5.78	-46.78	≤-25.78	PASS
			1000~26500	-5.78	-33.84	≤-25.78	PASS
		2480	Reference	-5.24	-5.24	---	PASS
			30~1000	-5.24	-46.79	≤-25.24	PASS
			1000~26500	-5.24	-29.65	≤-25.24	PASS
3DH5	Ant1	2402	Reference	-6.68	-6.68	---	PASS
			30~1000	-6.68	-45.67	≤-26.68	PASS
			1000~26500	-6.68	-35.34	≤-26.68	PASS
		2441	Reference	-5.76	-5.76	---	PASS
			30~1000	-5.76	-44.19	≤-25.76	PASS
			1000~26500	-5.76	-30.02	≤-25.76	PASS
		2480	Reference	-5.22	-5.22	---	PASS
			30~1000	-5.22	-43.69	≤-25.22	PASS
			1000~26500	-5.22	-32.43	≤-25.22	PASS

Test Graphs





DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000