

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: BT SPEAKER BOOM BLAST

Test Model: BTSPWHFT52-BLK

Environmental Conditions

Temperature:	24.3°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Yan Chen
Supervised by:	Fengliu Tang

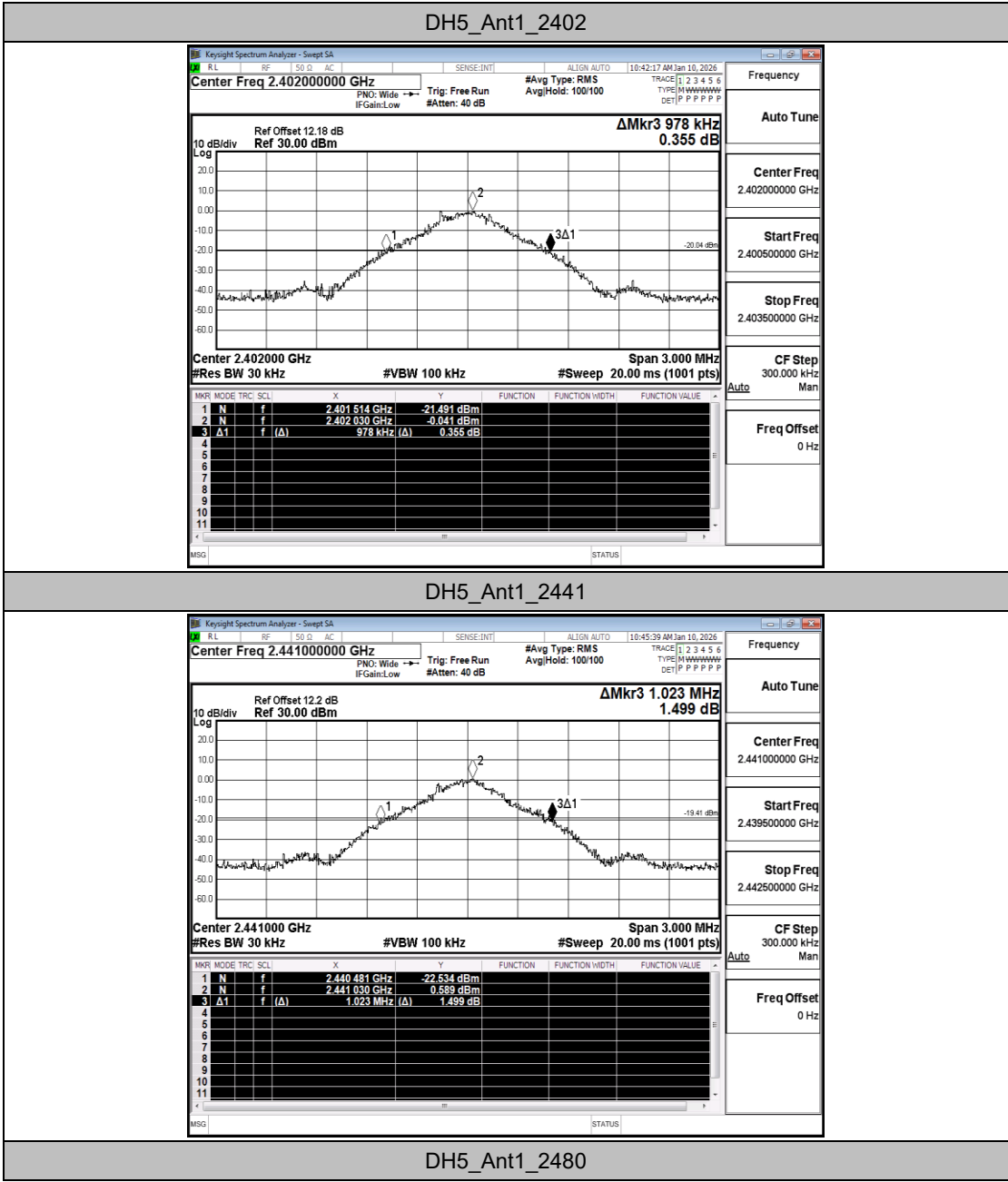
A.1 20dB Emission Bandwidth

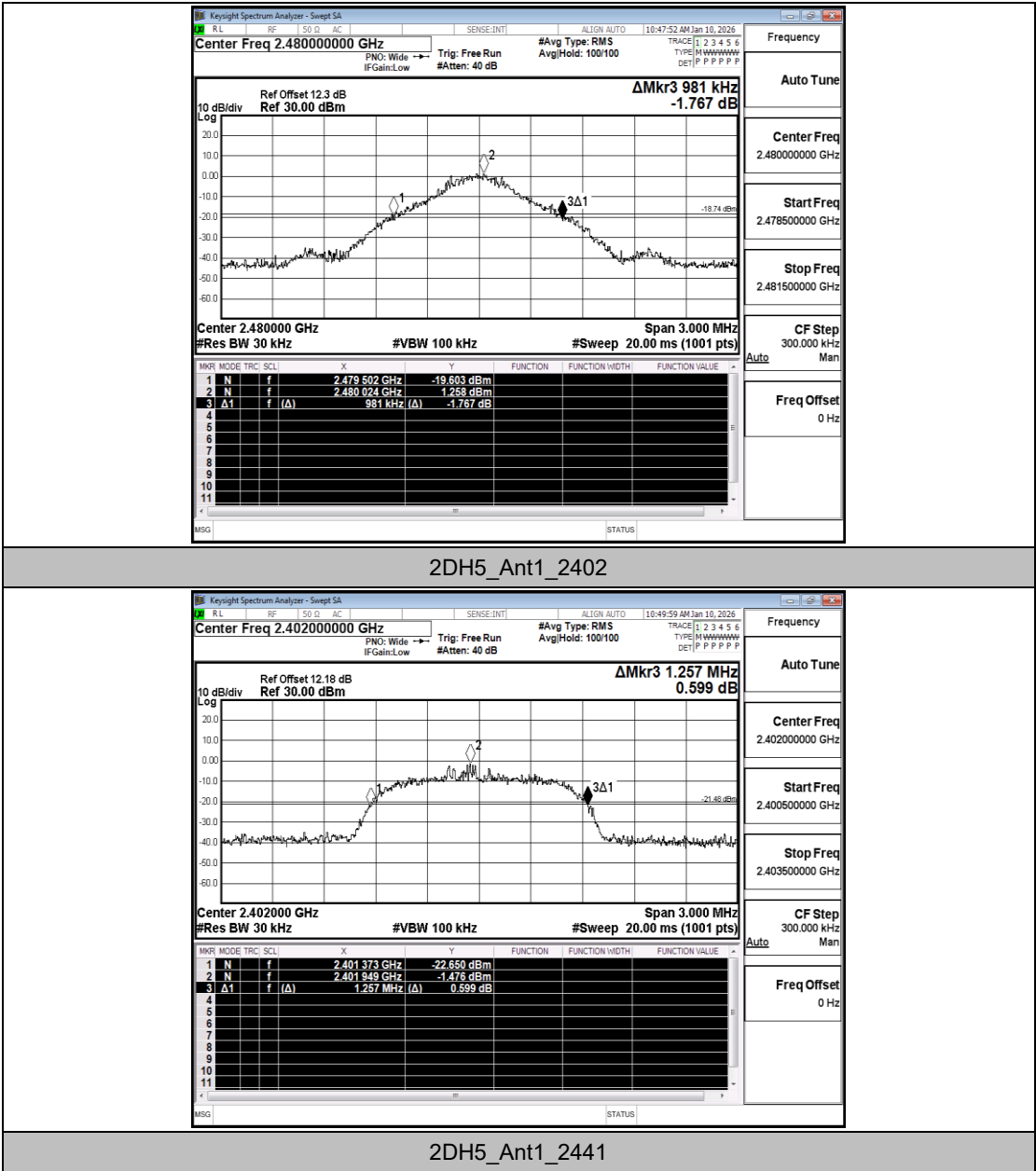
Test Result

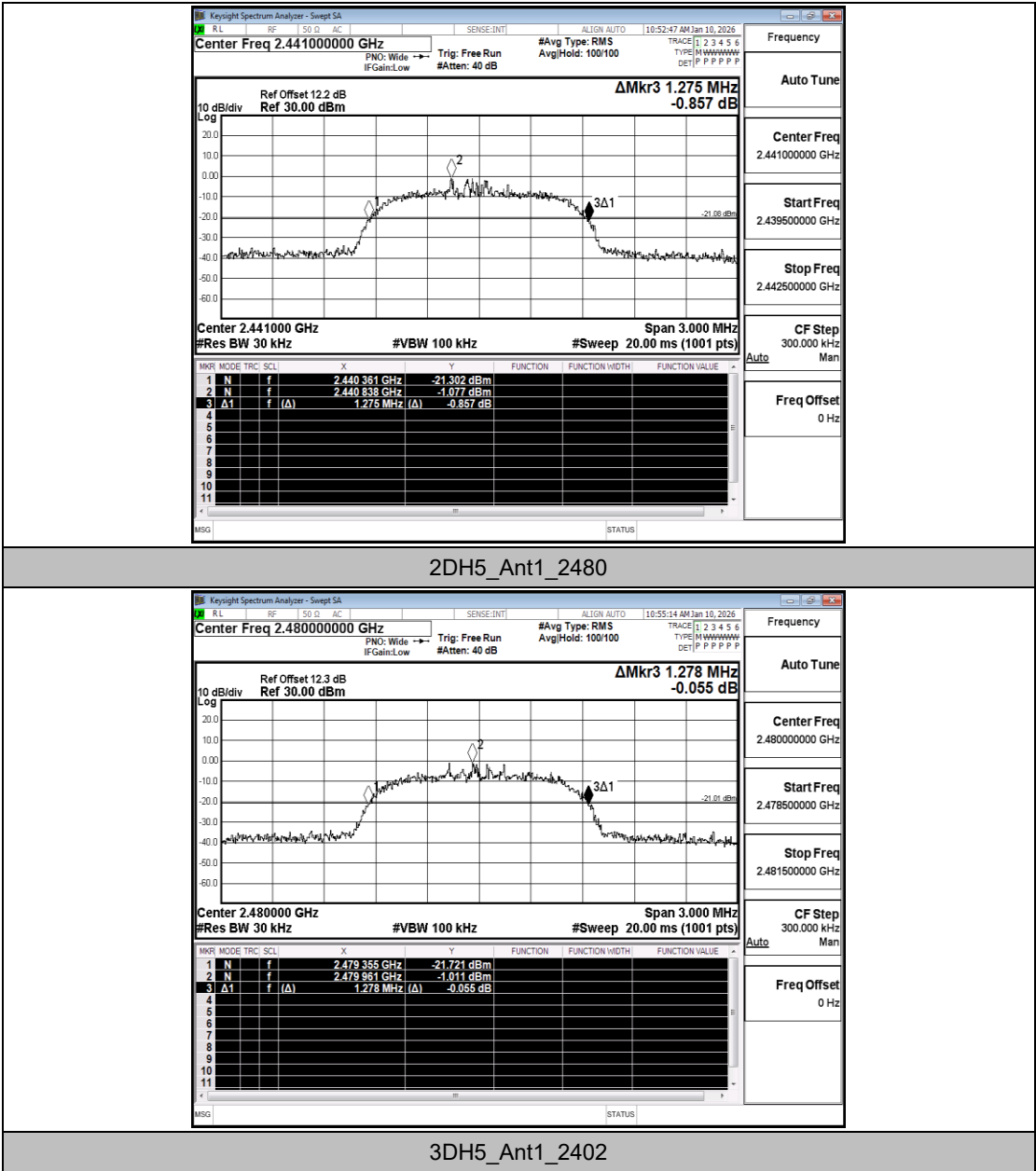
TestMode	Antenna	Freq (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.978	2401.514	2402.492	---	---
		2441	1.023	2440.481	2441.504	---	---
		2480	0.981	2479.502	2480.483	---	---
2DH5	Ant1	2402	1.257	2401.373	2402.630	---	---
		2441	1.275	2440.361	2441.636	---	---
		2480	1.278	2479.355	2480.633	---	---
3DH5	Ant1	2402	1.278	2401.361	2402.639	---	---
		2441	1.272	2440.361	2441.633	---	---
		2480	1.287	2479.352	2480.639	---	---

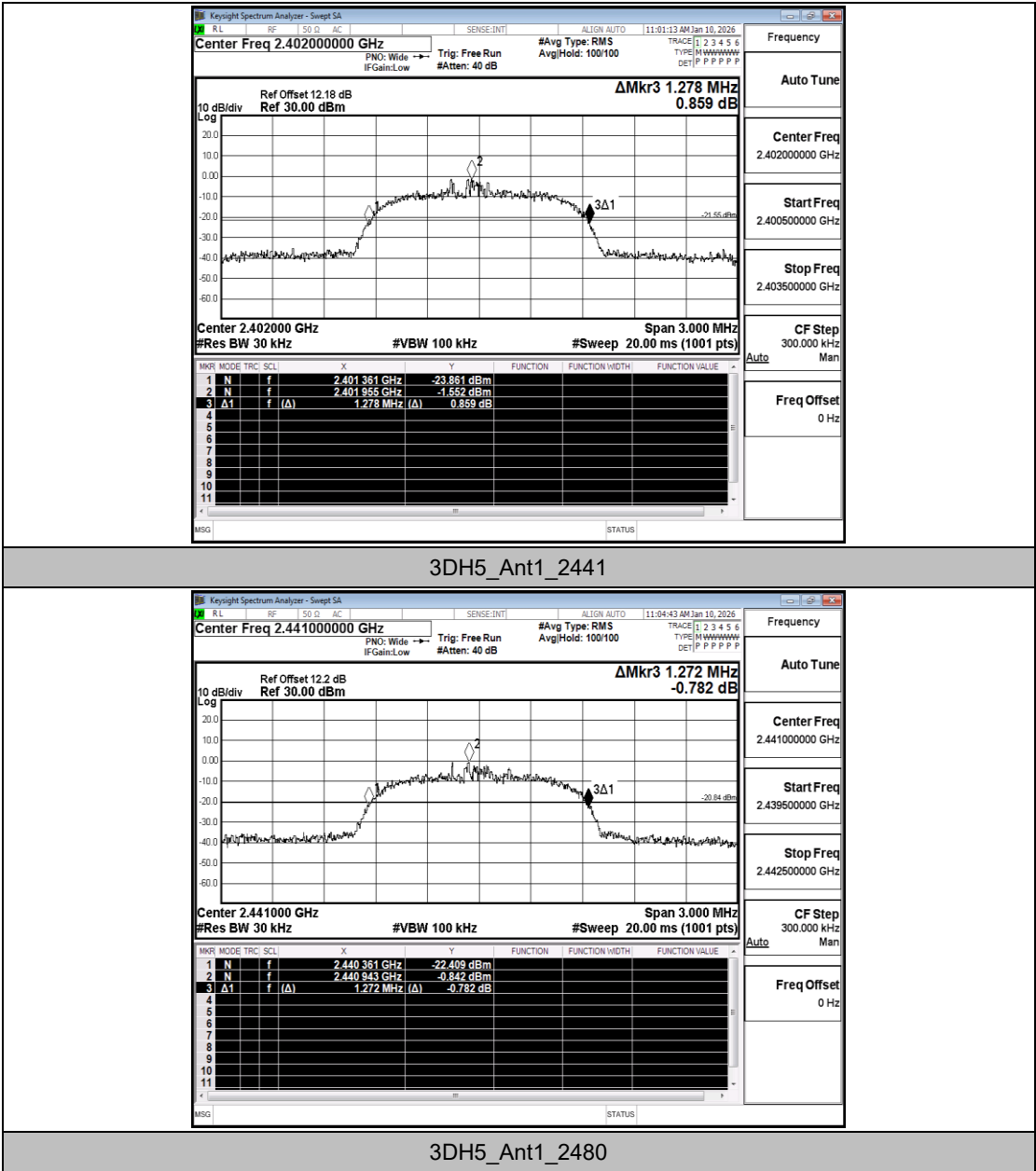
Note: offset=System attenuation +cabel loss

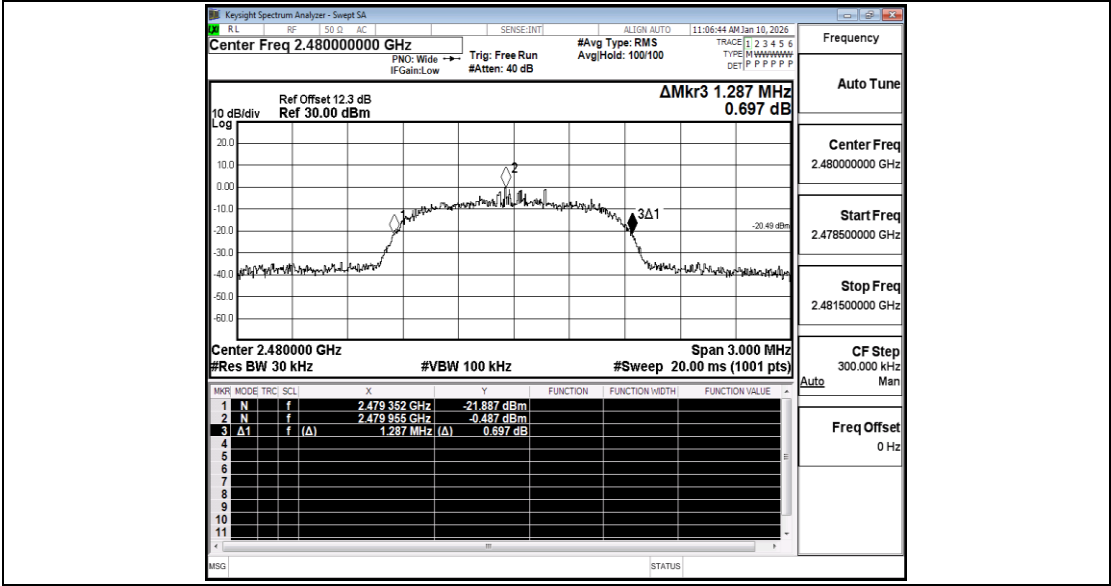
Test Graphs











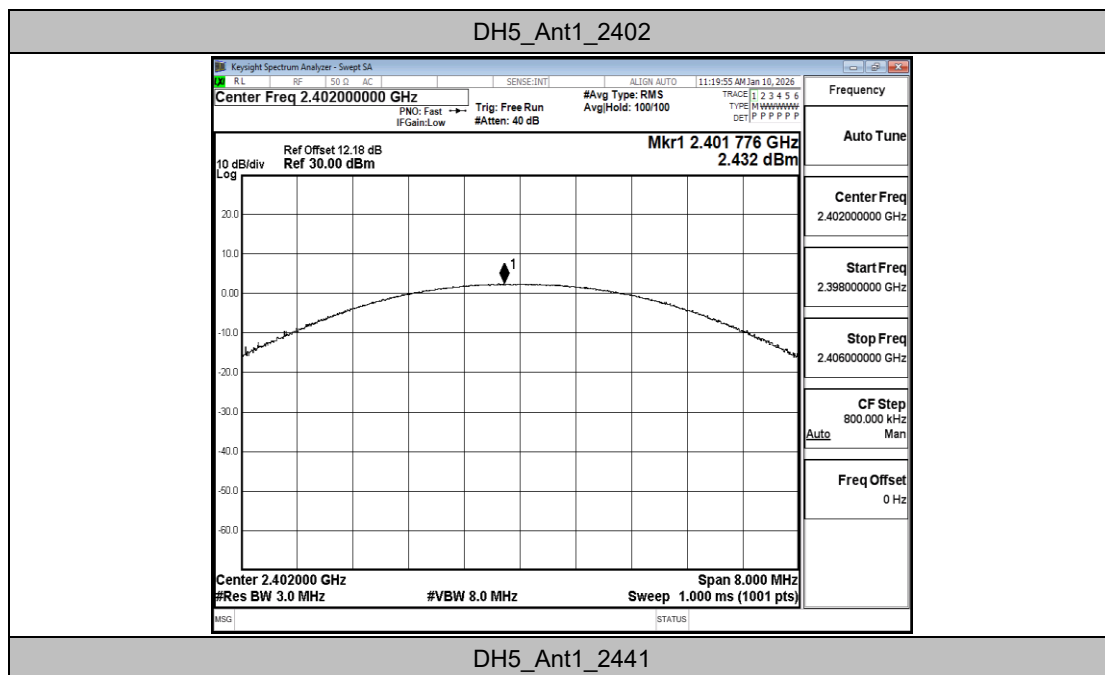
A.2 Maximum Peak conducted output power

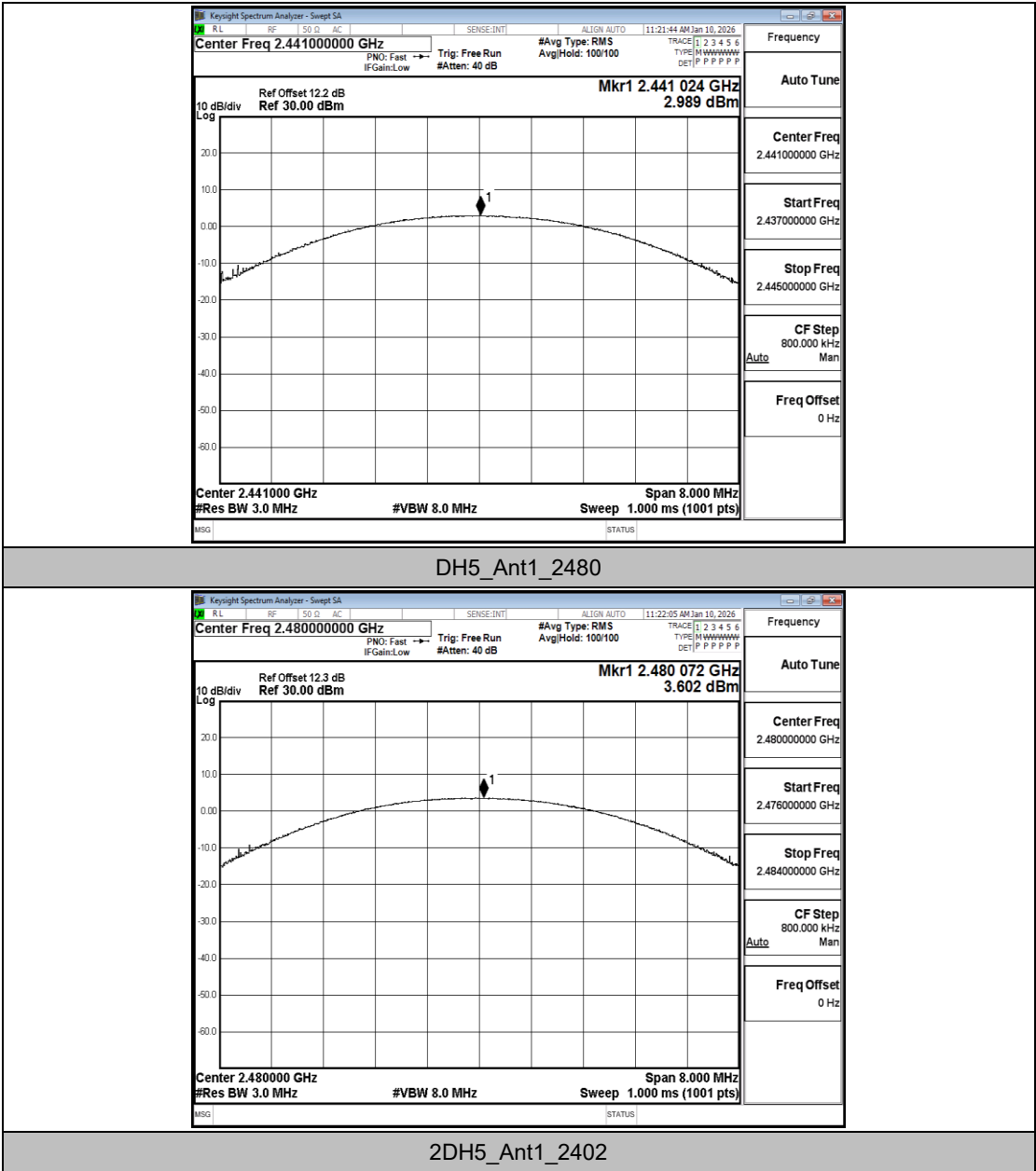
Test Result Peak

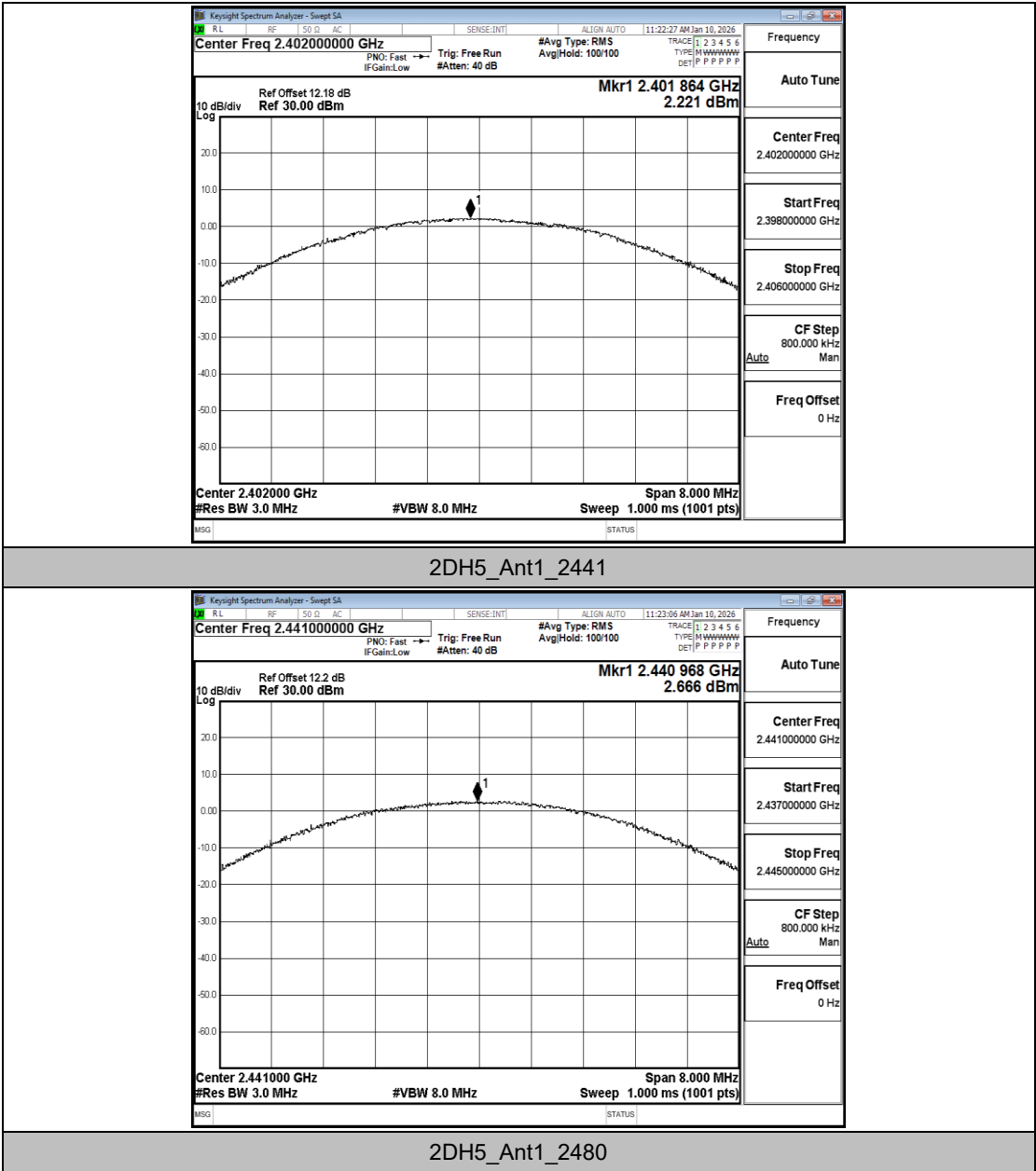
Test Mode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.43	≤30	PASS
		2441	2.99	≤30	PASS
		2480	3.60	≤30	PASS
2DH5	Ant1	2402	2.22	≤20.97	PASS
		2441	2.67	≤20.97	PASS
		2480	3.47	≤20.97	PASS
3DH5	Ant1	2402	2.31	≤20.97	PASS
		2441	2.80	≤20.97	PASS
		2480	3.44	≤20.97	PASS

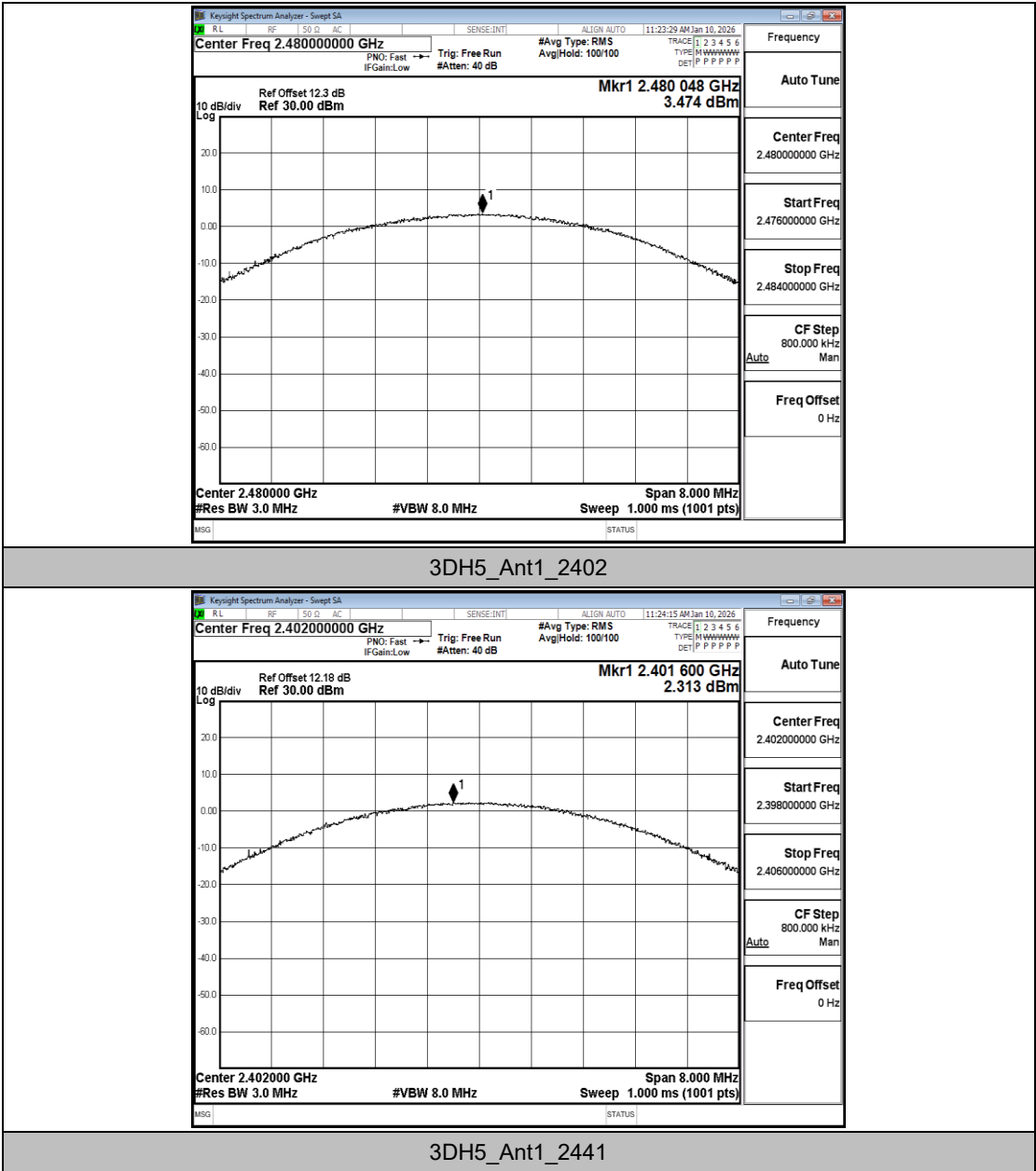
Note: offset=System attenuation +cabal loss

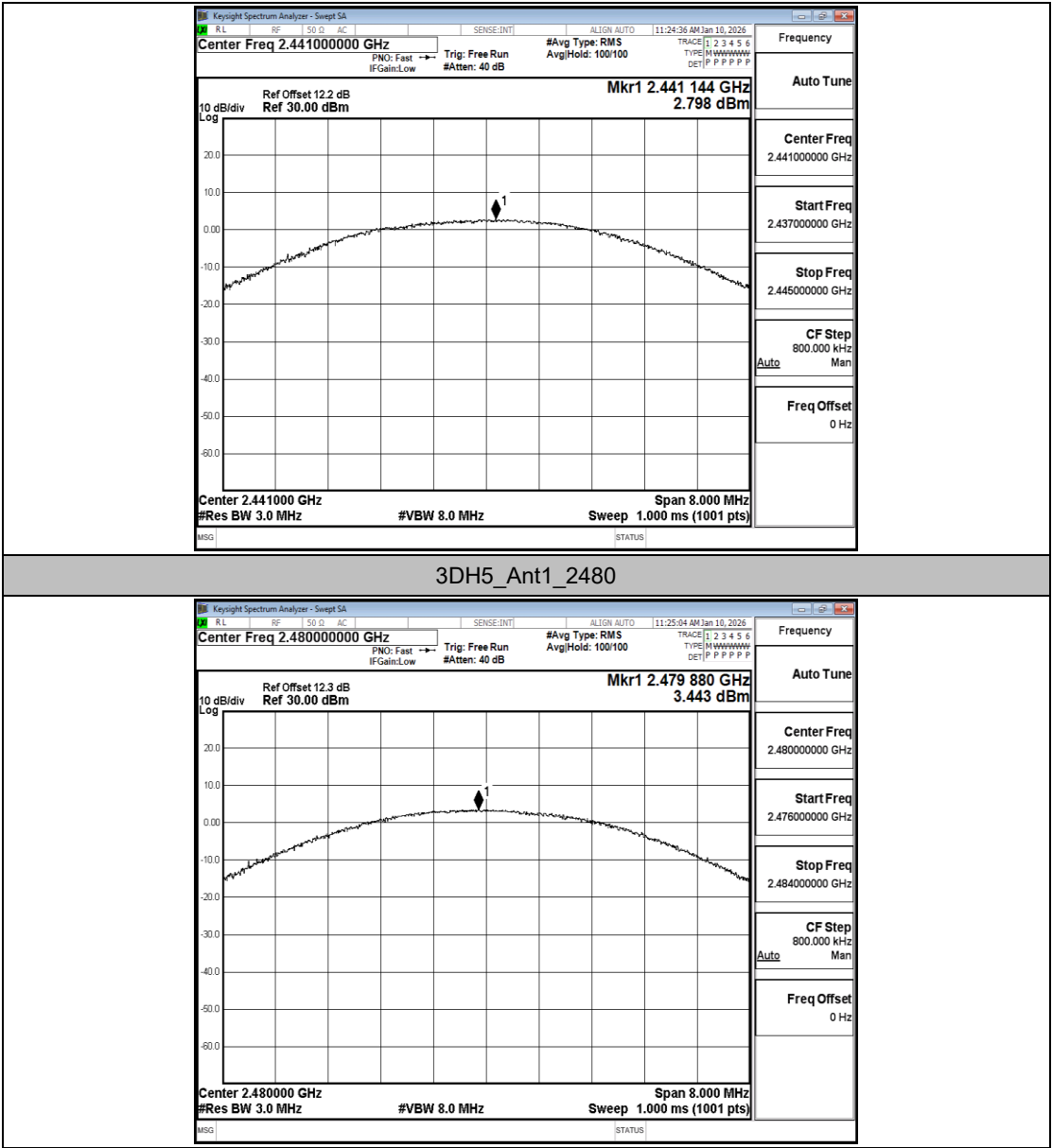
Test Graphs











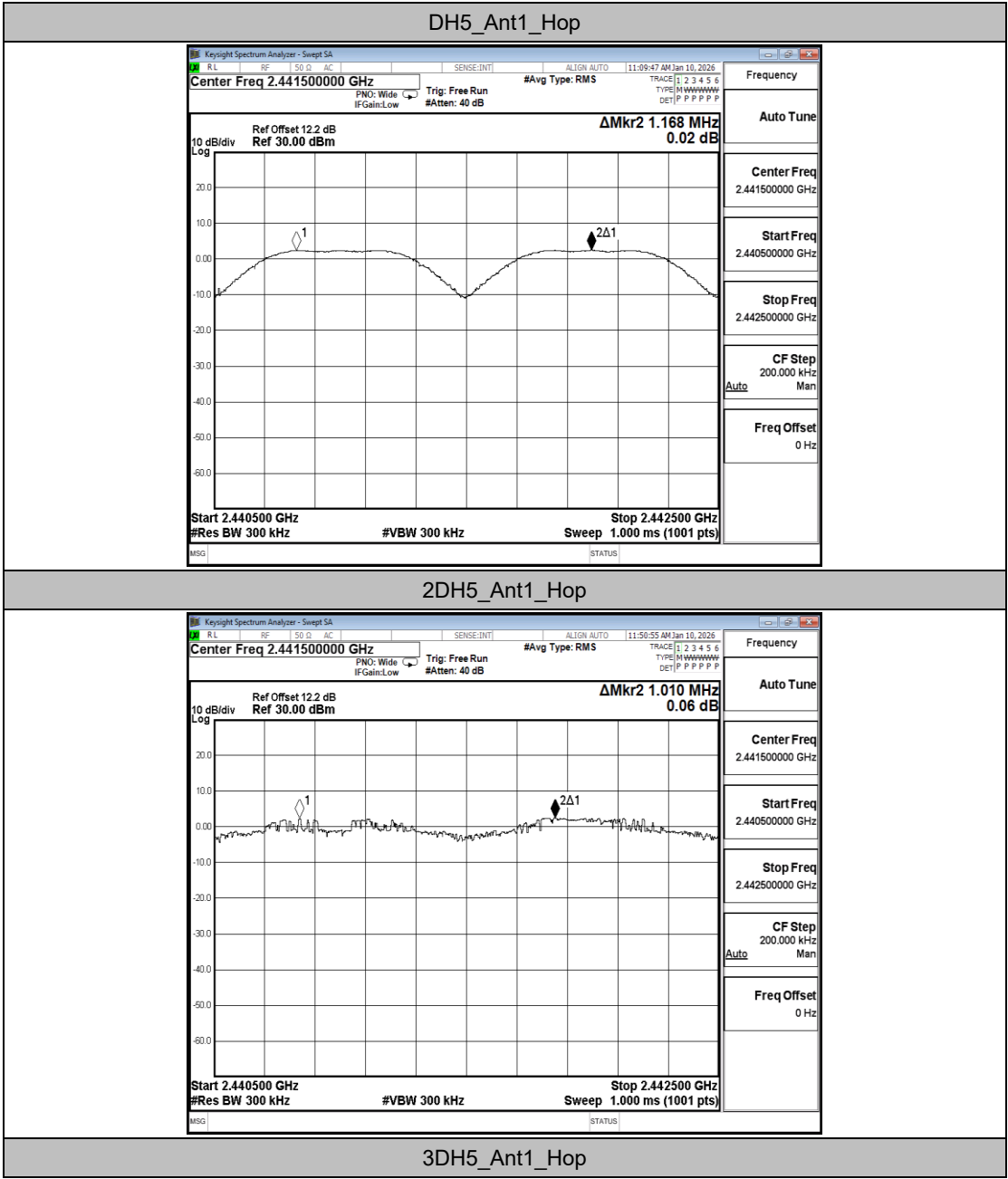
A.3 Carrier frequency separation

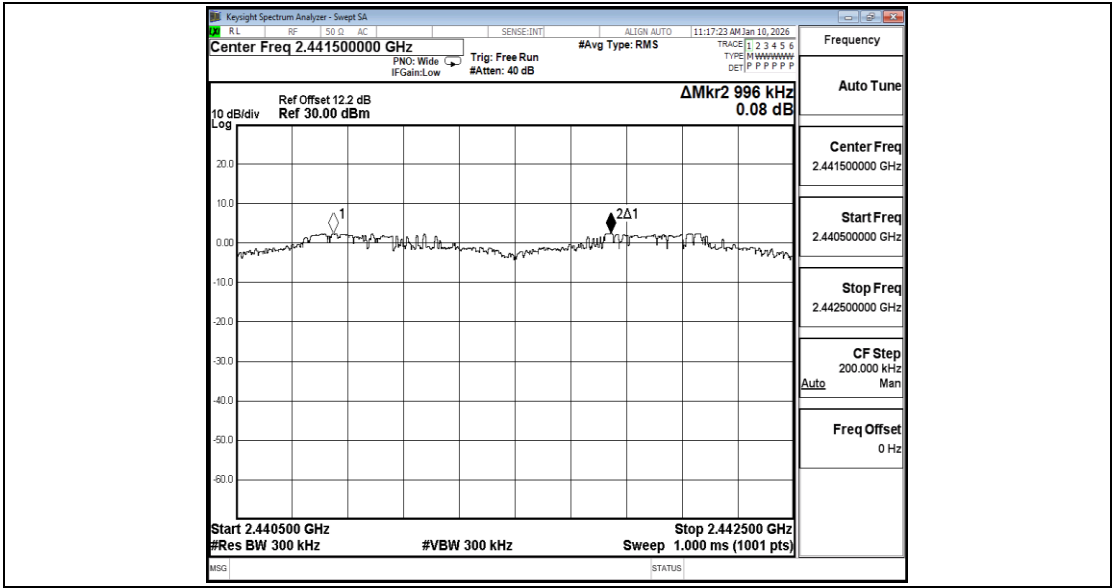
Test Result

TestMode	Antenna	Freq (MHz)	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.168	≥0.682	PASS
2DH5	Ant1	Hop	1.01	≥0.852	PASS
3DH5	Ant1	Hop	0.996	≥0.858	PASS

Note: offset=System attenuation +cabal loss

Test Graphs





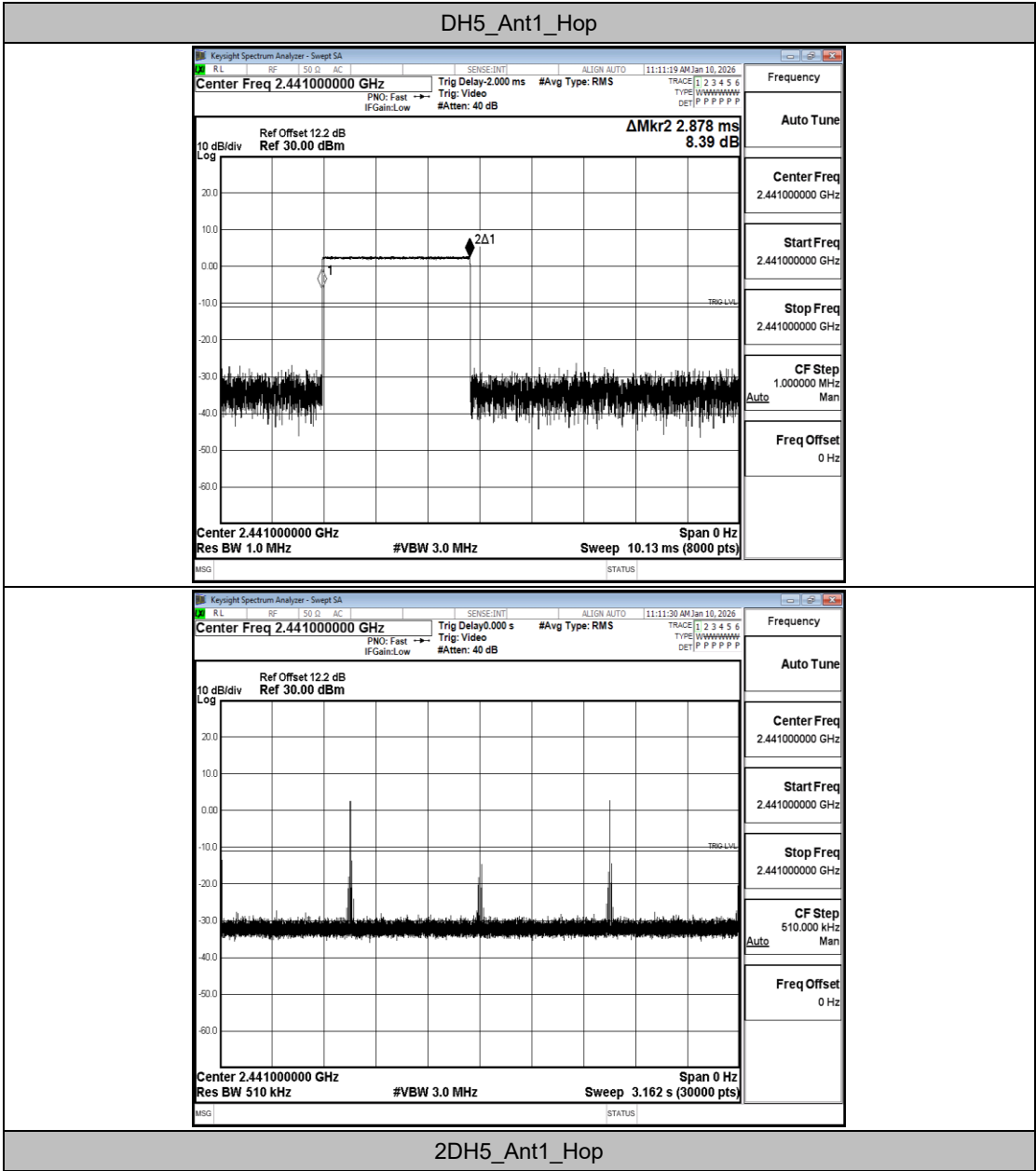
A.4 Time of occupancy

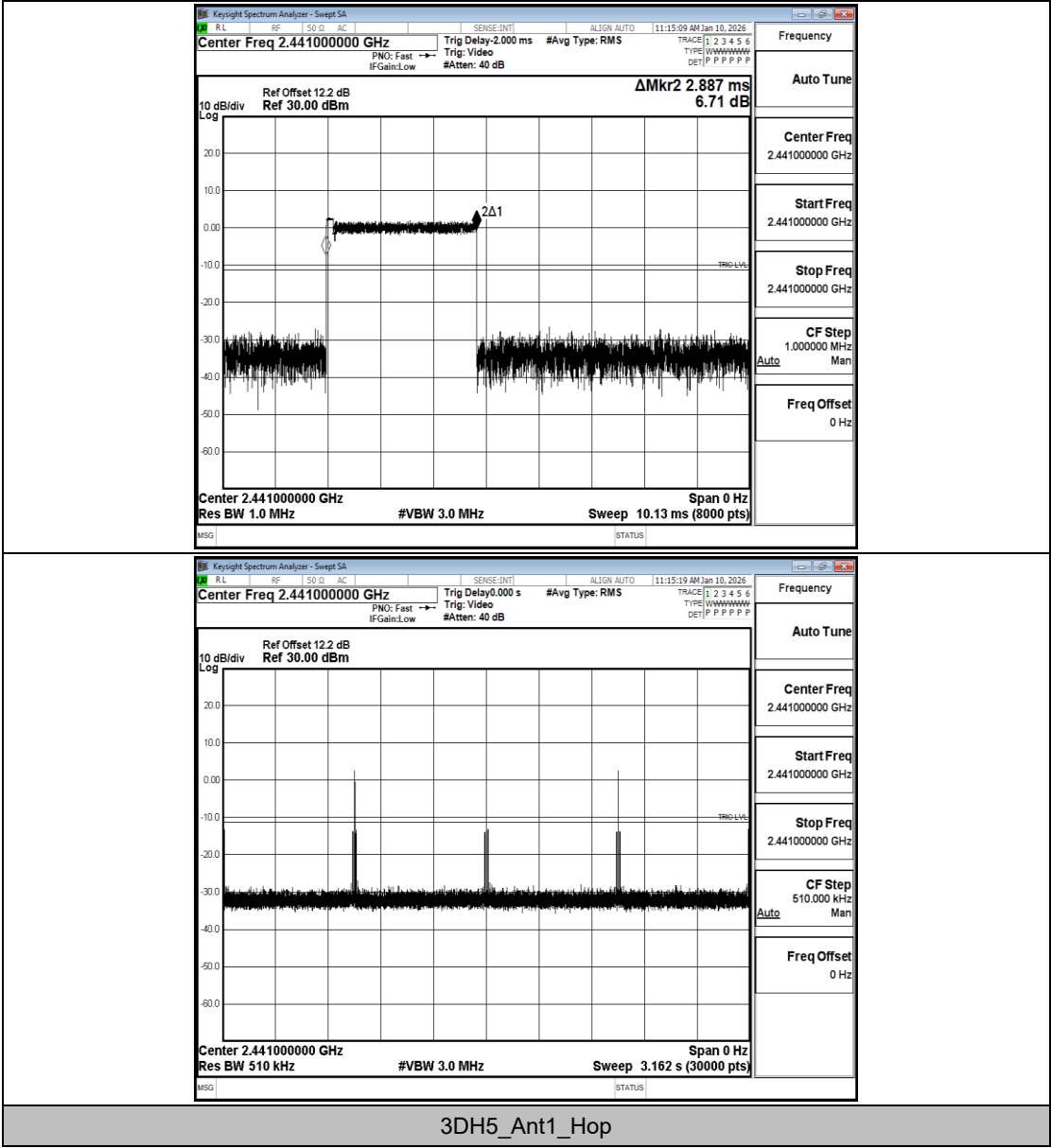
Test Result

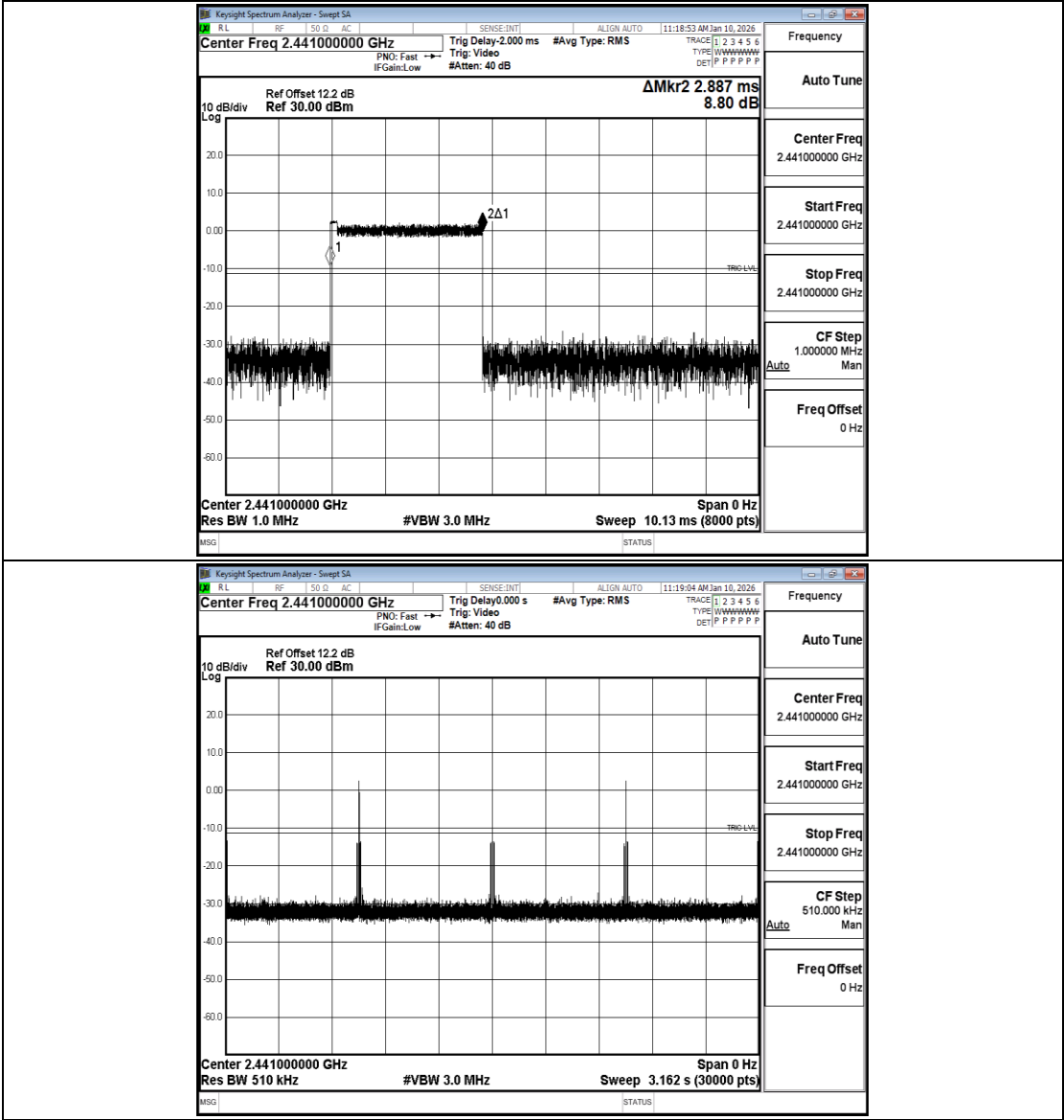
TestMode	Antenna	Freq (MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.878	40	0.115	≤0.4	PASS
2DH5	Ant1	Hop	2.887	40	0.115	≤0.4	PASS
3DH5	Ant1	Hop	2.887	40	0.115	≤0.4	PASS

Note: offset=System attenuation +cabal loss

Test Graphs







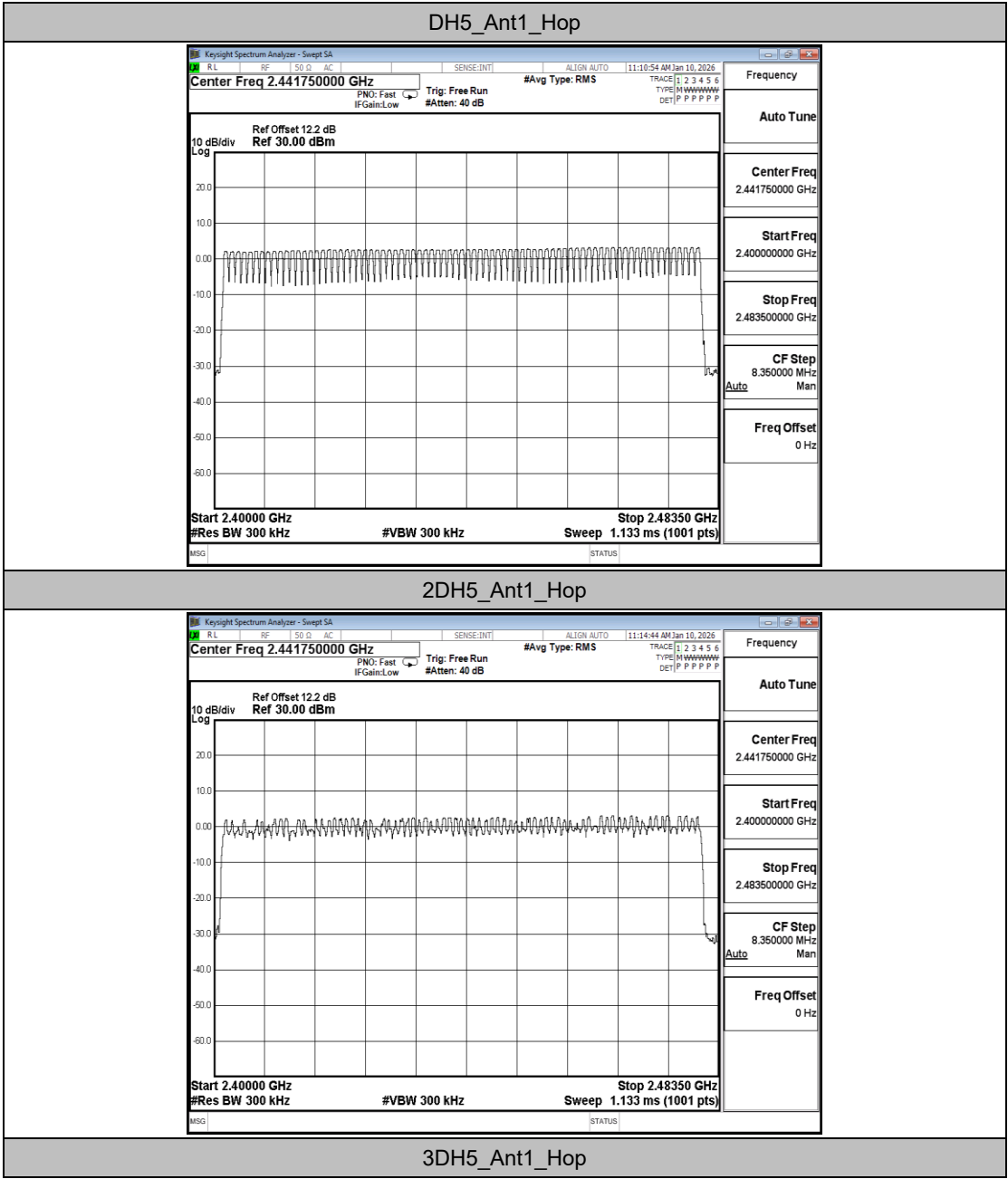
A.5 Number of hopping channels

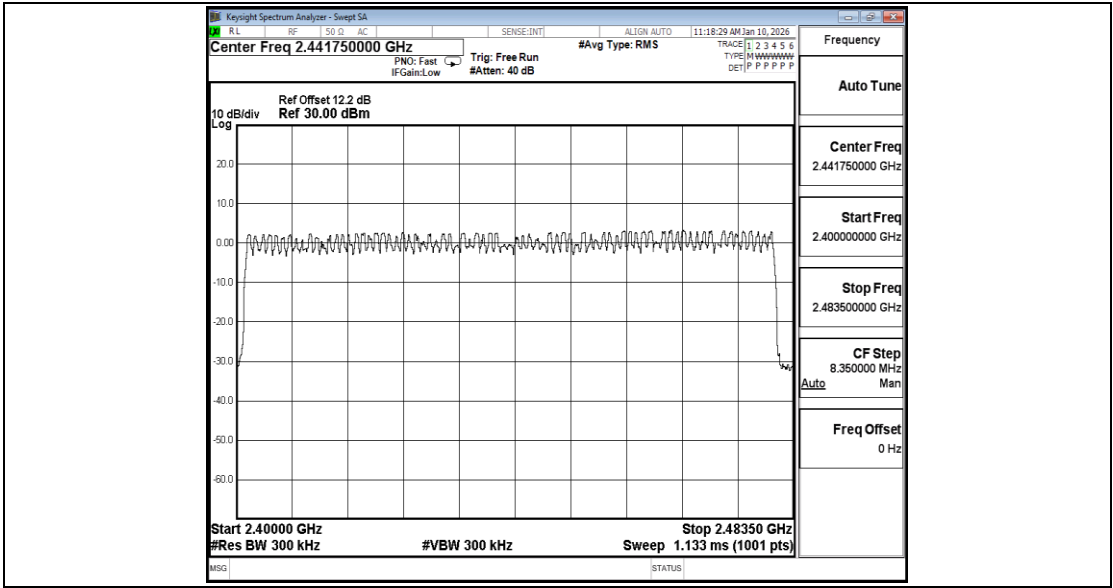
Test Result

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

Note: offset=System attenuation +cable loss

Test Graphs





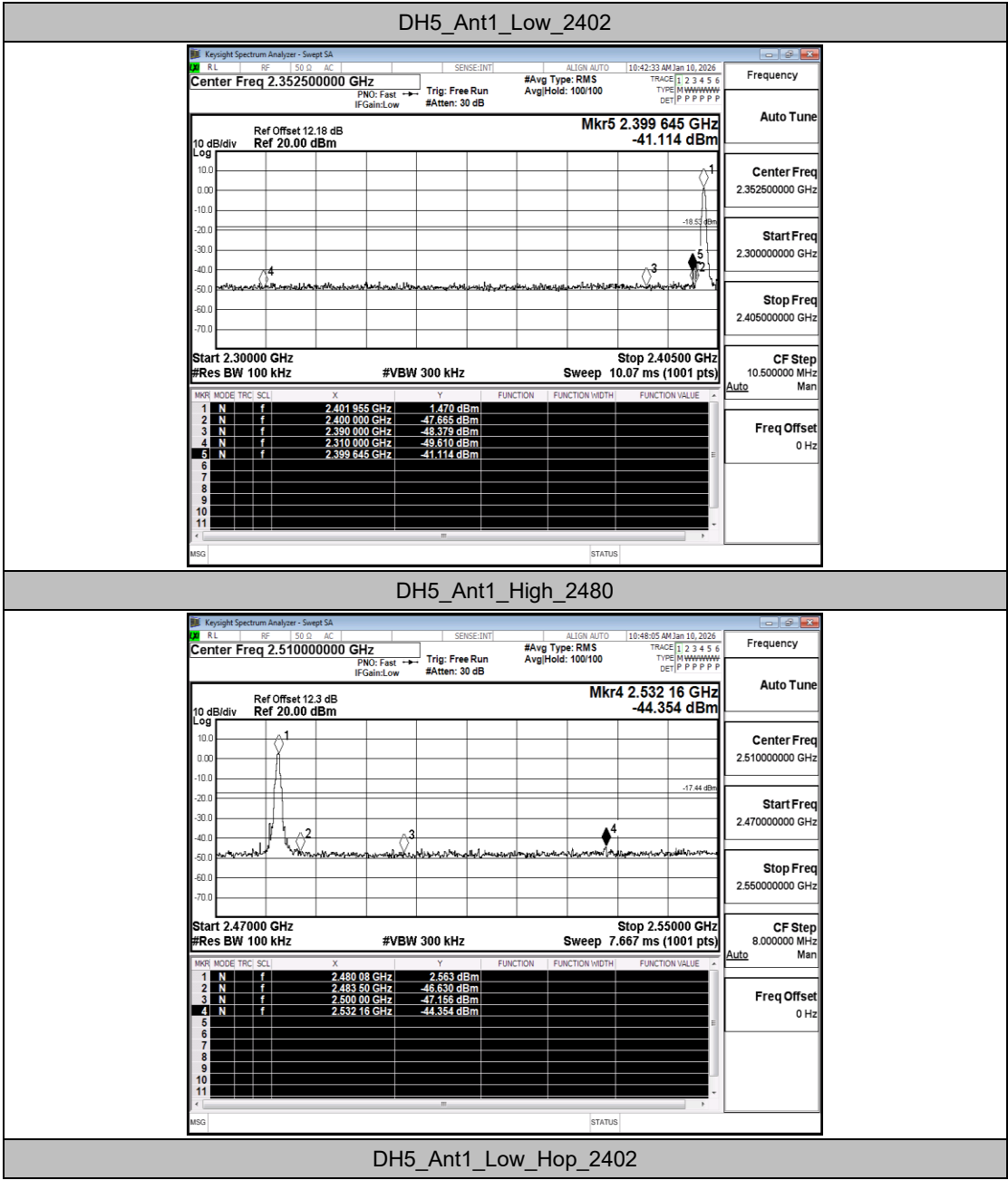
A.6 Band edge measurements

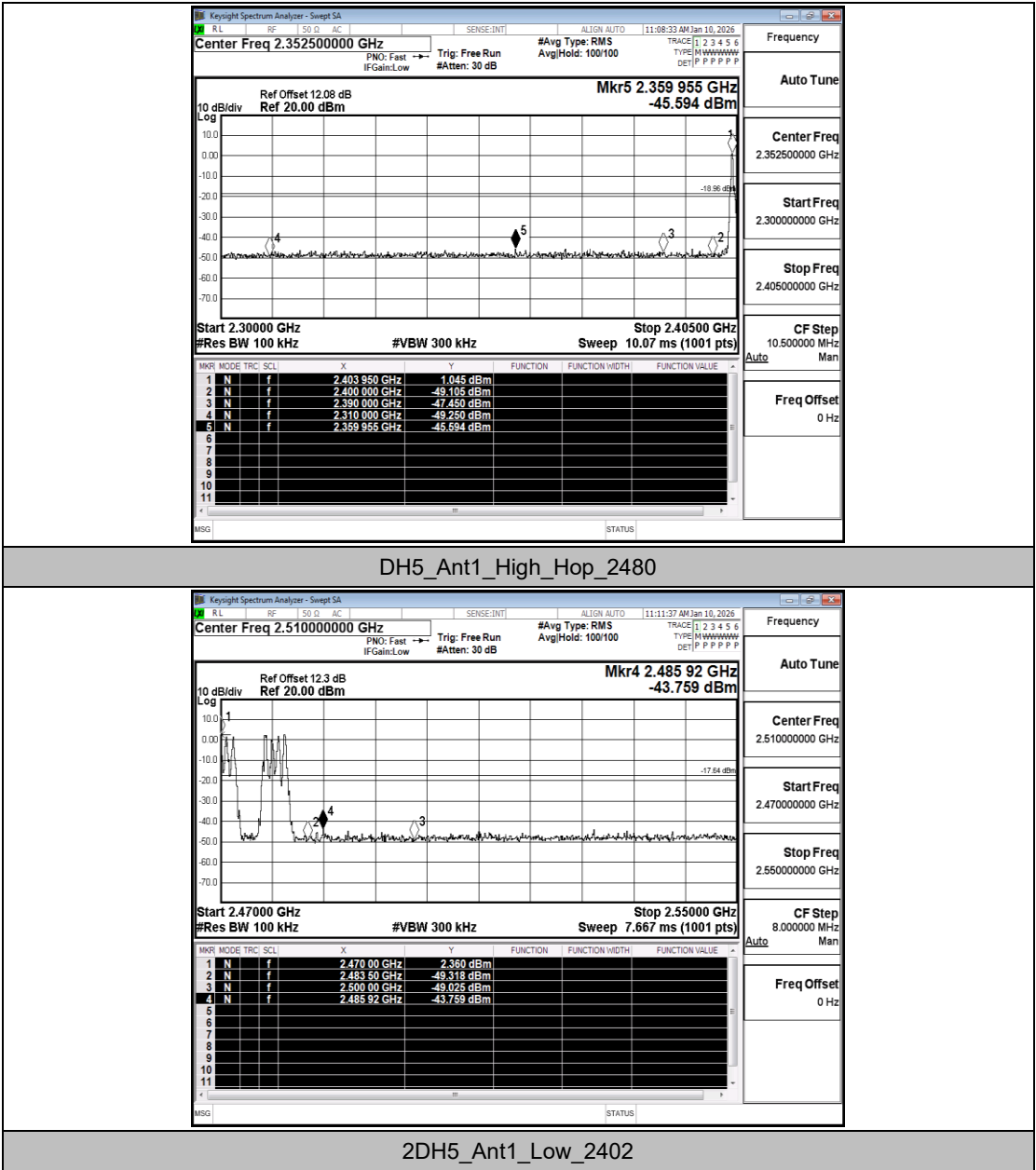
Test Result

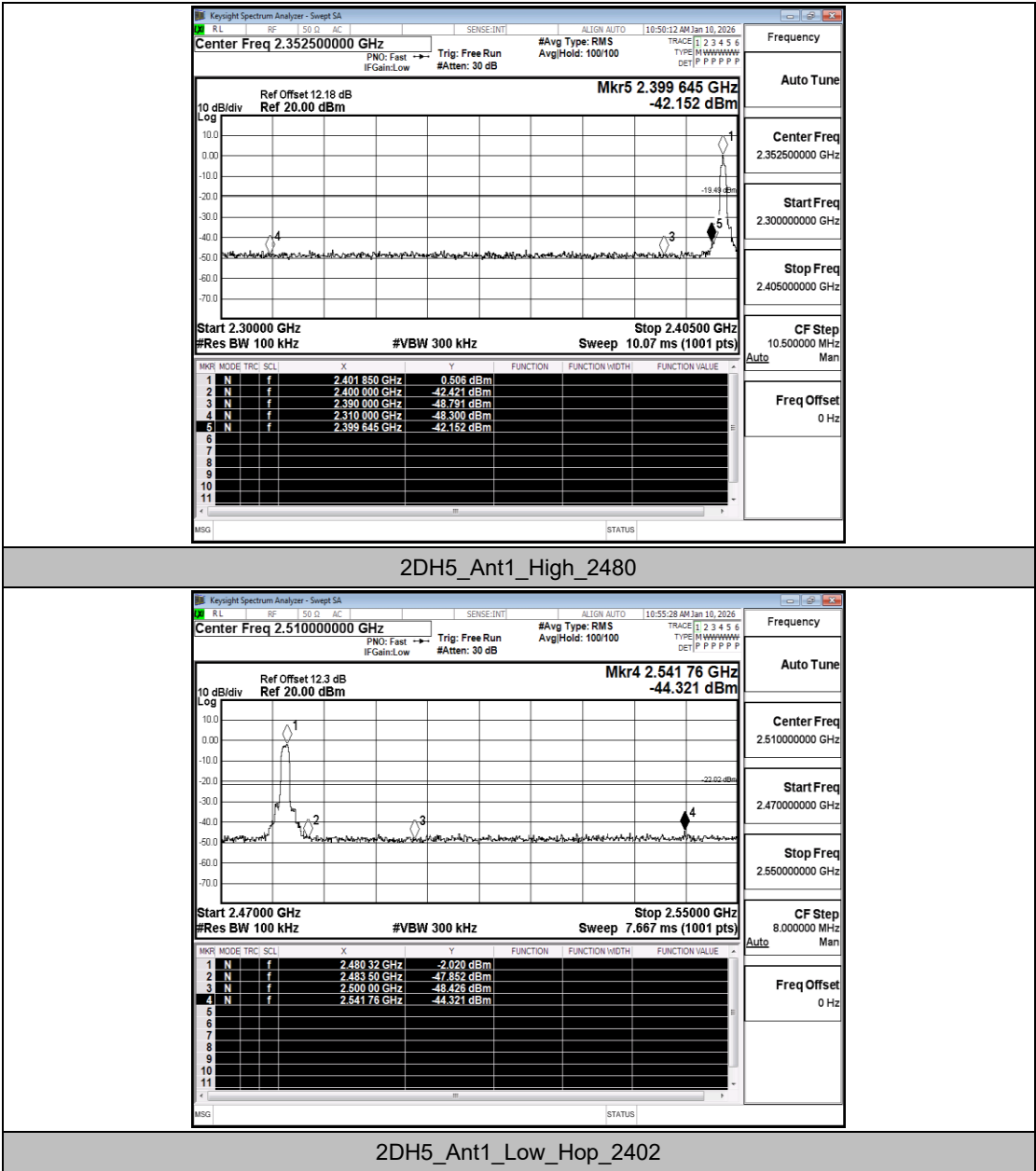
TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.47	-41.11	≤-18.53	PASS
		High	2480	2.56	-44.35	≤-17.44	PASS
		Low	Hop_2402	1.05	-45.59	≤-18.96	PASS
		High	Hop_2480	2.36	-43.76	≤-17.64	PASS
2DH5	Ant1	Low	2402	0.51	-42.15	≤-19.49	PASS
		High	2480	-2.02	-44.32	≤-22.02	PASS
		Low	Hop_2402	-4.95	-45.45	≤-24.95	PASS
		High	Hop_2480	-1.68	-44.83	≤-21.68	PASS
3DH5	Ant1	Low	2402	1.12	-41.81	≤-18.88	PASS
		High	2480	-2.01	-44.55	≤-22.01	PASS
		Low	Hop_2402	-4.05	-45.01	≤-24.05	PASS
		High	Hop_2480	-2.31	-45.3	≤-22.31	PASS

Note: offset=System attenuation +cabal loss

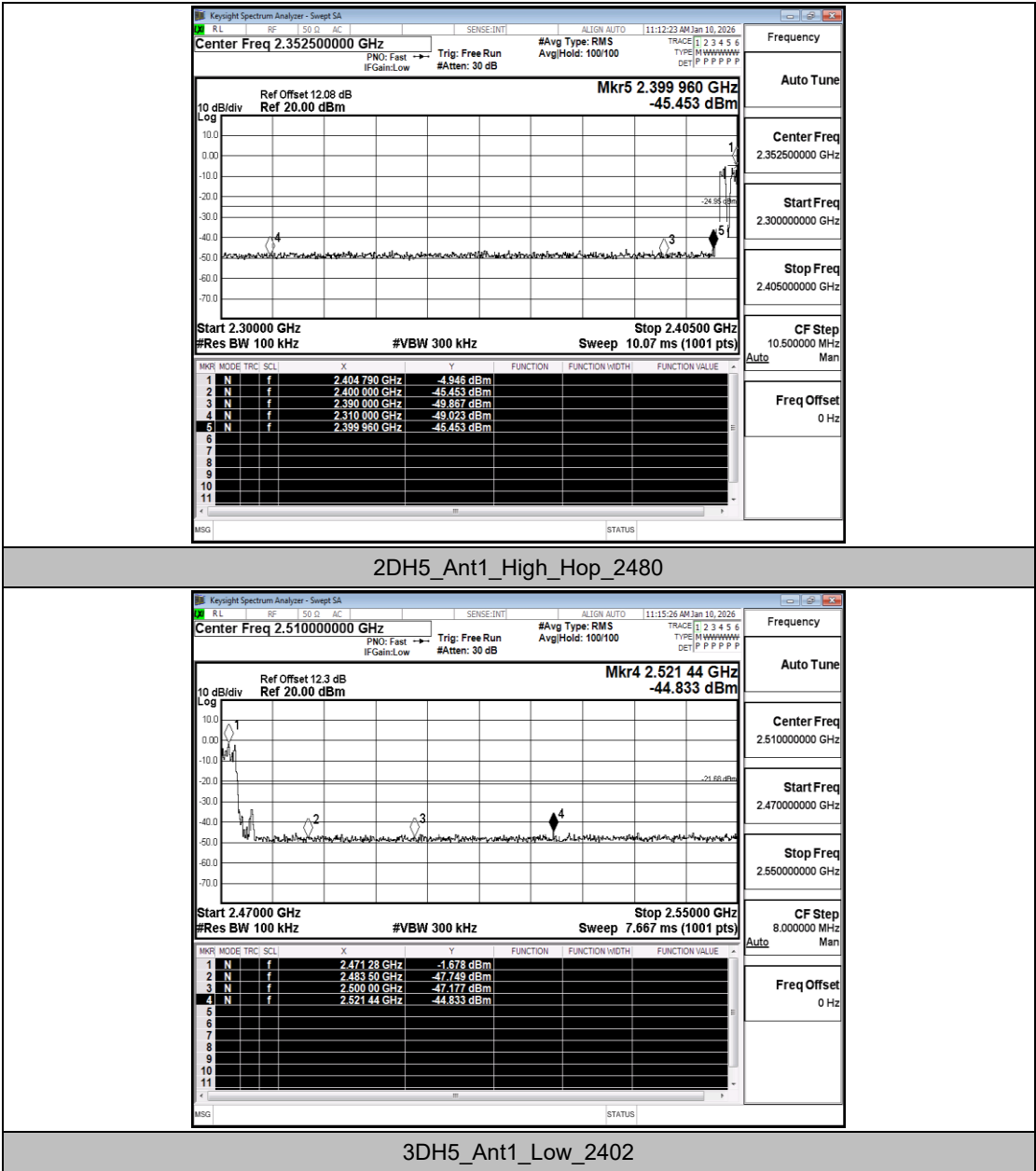
Test Graphs

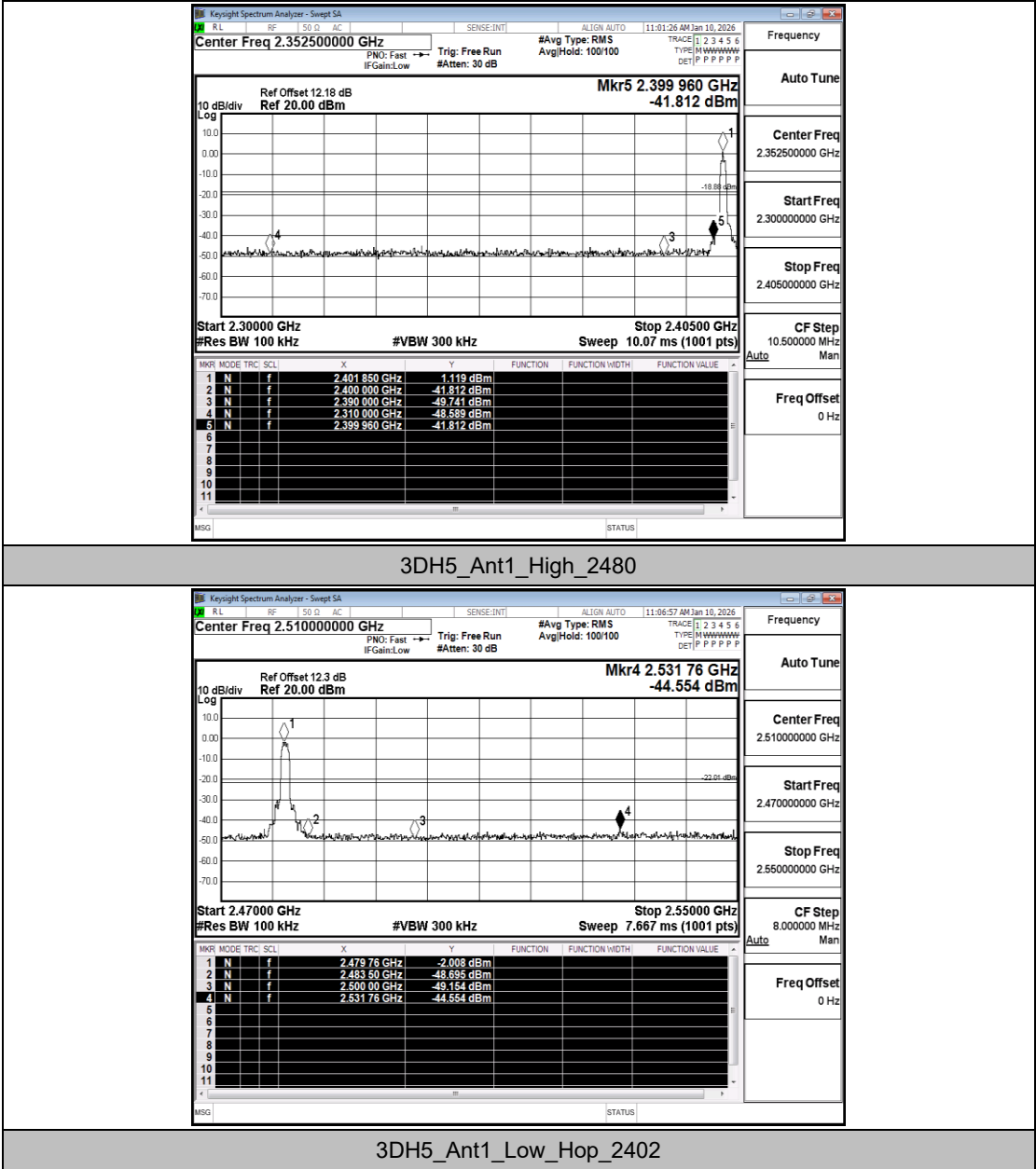


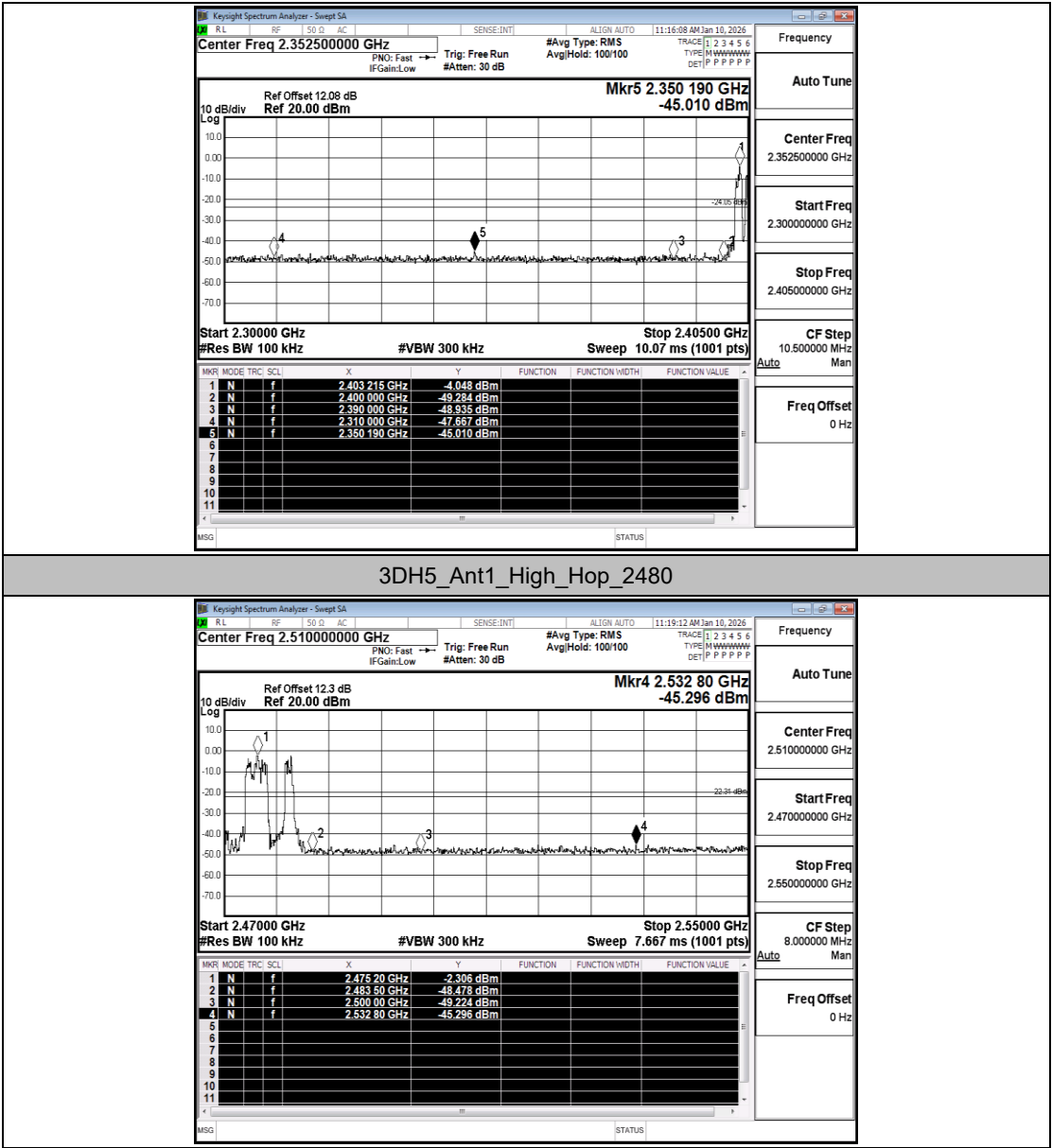




2DH5_Ant1_Low_Hop_2402







A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.59	0.59	---	PASS
			30~1000	0.59	-54.82	≤-19.41	PASS
			1000~26500	0.59	-43.38	≤-19.41	PASS
		2441	Reference	1.51	1.51	---	PASS
			30~1000	1.51	-57.87	≤-18.49	PASS
			1000~26500	1.51	-40.8	≤-18.49	PASS
		2480	Reference	2.67	2.67	---	PASS
			30~1000	2.67	-62.97	≤-17.33	PASS
			1000~26500	2.67	-42.5	≤-17.33	PASS
2DH5	Ant1	2402	Reference	0.71	0.71	---	PASS
			30~1000	0.71	-57.55	≤-19.29	PASS
			1000~26500	0.71	-46.48	≤-19.29	PASS
		2441	Reference	1.13	1.13	---	PASS
			30~1000	1.13	-55.17	≤-18.87	PASS
			1000~26500	1.13	-48.35	≤-18.87	PASS
		2480	Reference	2.71	2.71	---	PASS
			30~1000	2.71	-61.58	≤-17.29	PASS
			1000~26500	2.71	-45.06	≤-17.29	PASS
3DH5	Ant1	2402	Reference	0.12	0.12	---	PASS
			30~1000	0.12	-64.5	≤-19.88	PASS
			1000~26500	0.12	-48.08	≤-19.88	PASS
		2441	Reference	1.57	1.57	---	PASS
			30~1000	1.57	-56.13	≤-18.43	PASS
			1000~26500	1.57	-41.18	≤-18.43	PASS
		2480	Reference	2.78	2.78	---	PASS
			30~1000	2.78	-59.16	≤-17.22	PASS
			1000~26500	2.78	-43.78	≤-17.22	PASS

Note: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the CORREC' of the Spectrum Analyzer during the test.

Test Graphs

