

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: SPEAKER FLEX PORTABLE

Test Model: BTSPFLFT52-BLK

Environmental Conditions

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

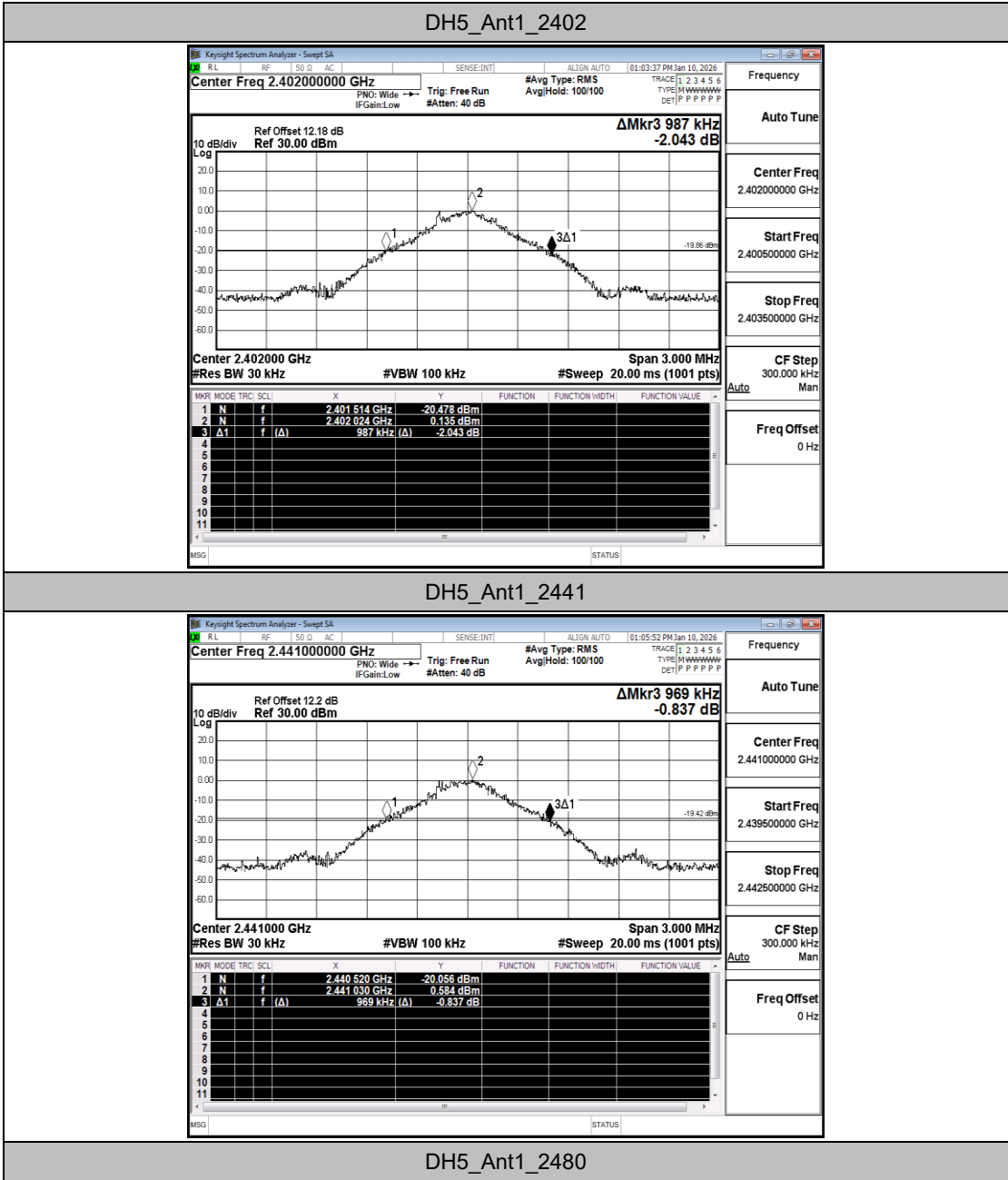
A.1 20dB Emission Bandwidth

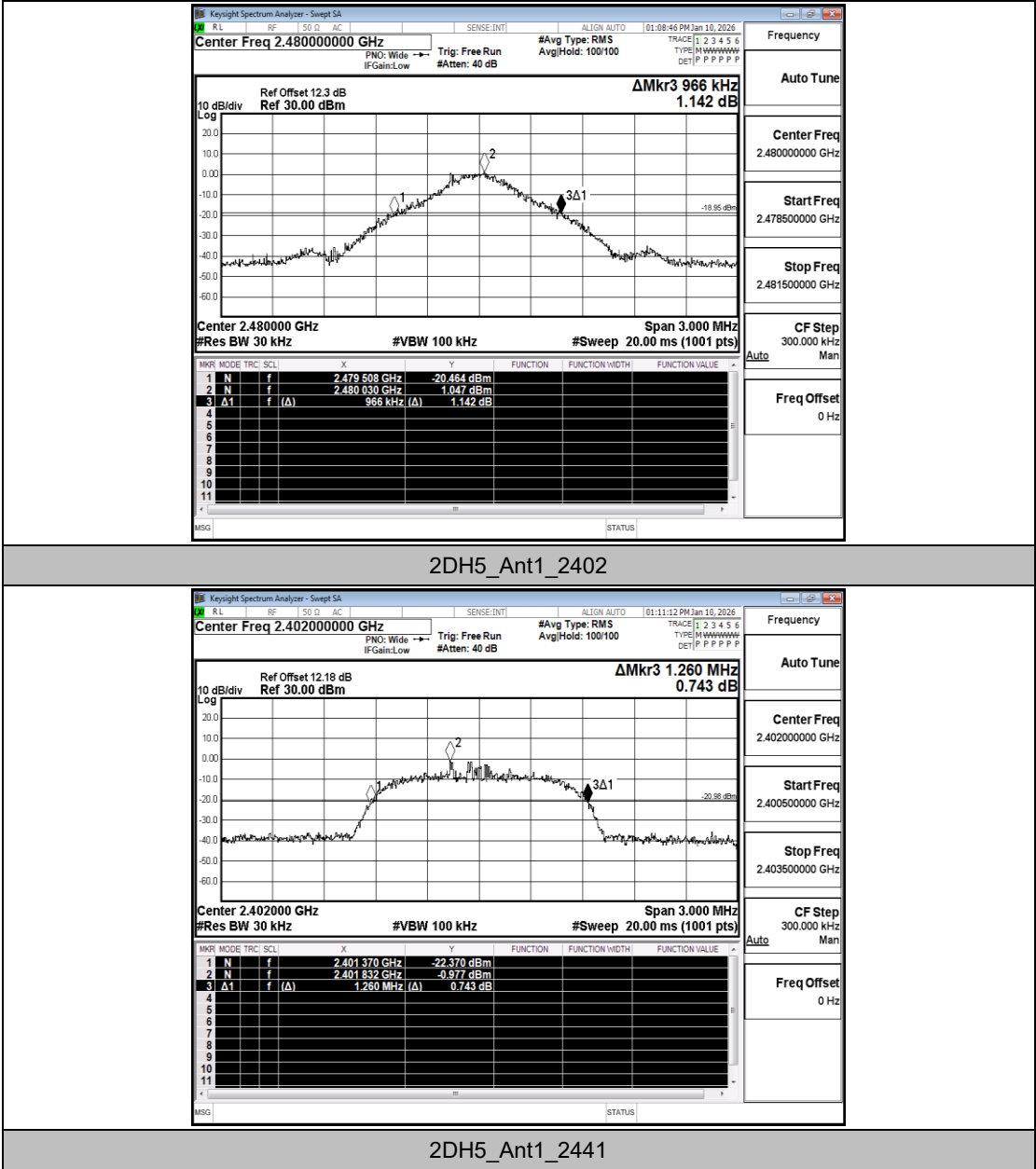
Test Result

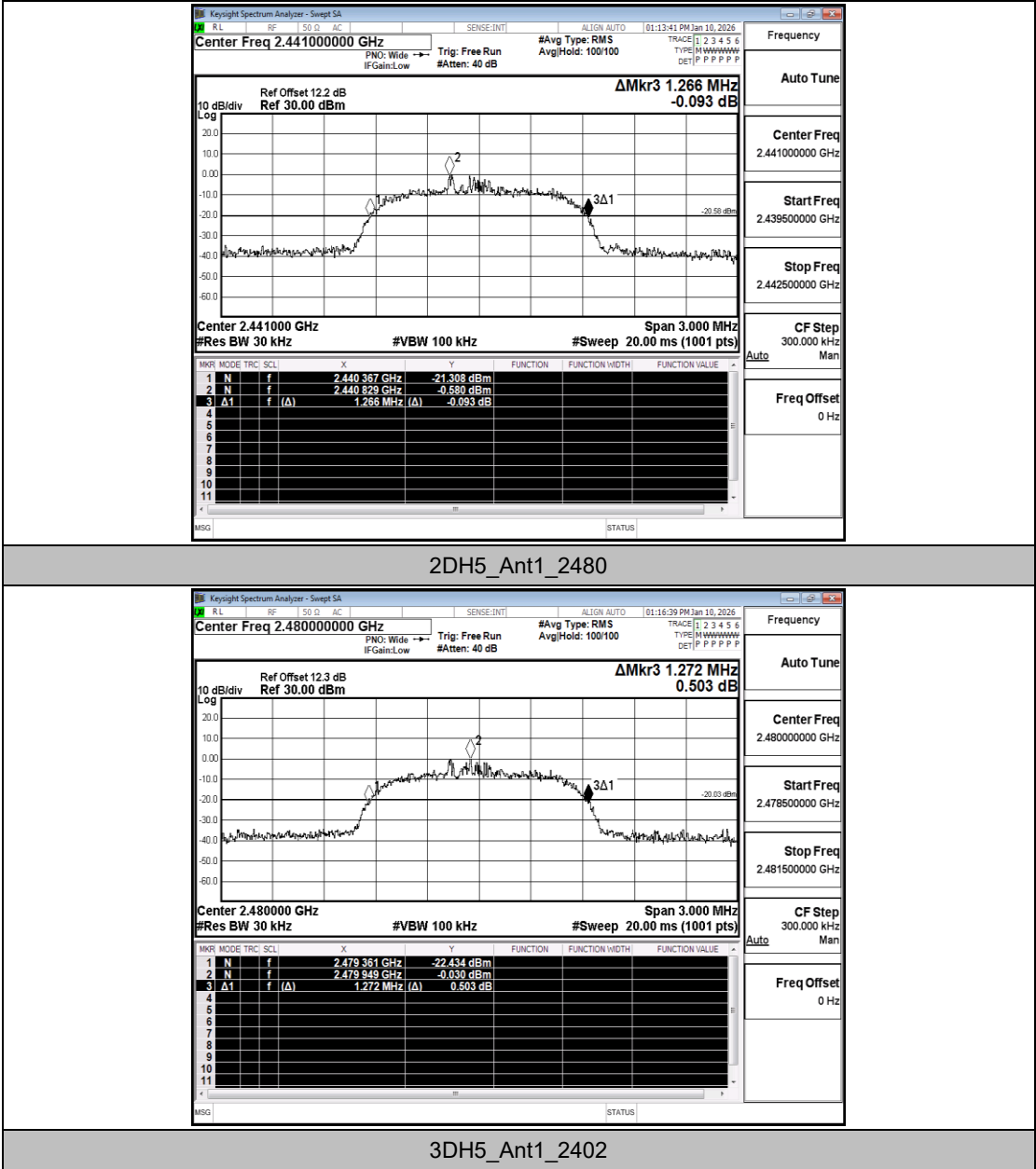
TestMode	Antenna	Freq (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.987	2401.514	2402.501	---	---
		2441	0.969	2440.520	2441.489	---	---
		2480	0.966	2479.508	2480.474	---	---
2DH5	Ant1	2402	1.260	2401.370	2402.630	---	---
		2441	1.266	2440.367	2441.633	---	---
		2480	1.272	2479.361	2480.633	---	---
3DH5	Ant1	2402	1.263	2401.373	2402.636	---	---
		2441	1.290	2440.358	2441.648	---	---
		2480	1.275	2479.370	2480.645	---	---

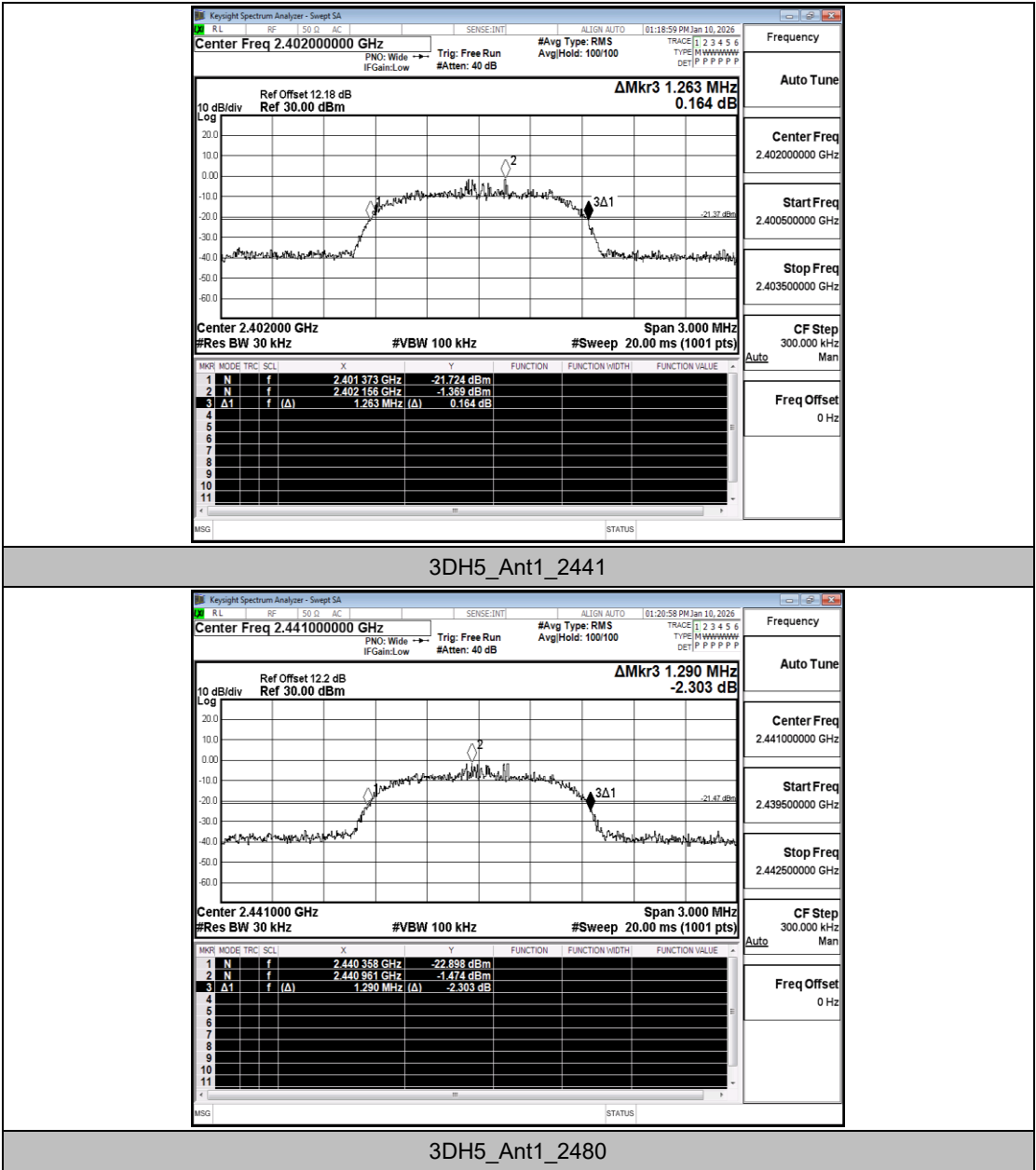
Note: offset=System attenuation +cabel loss

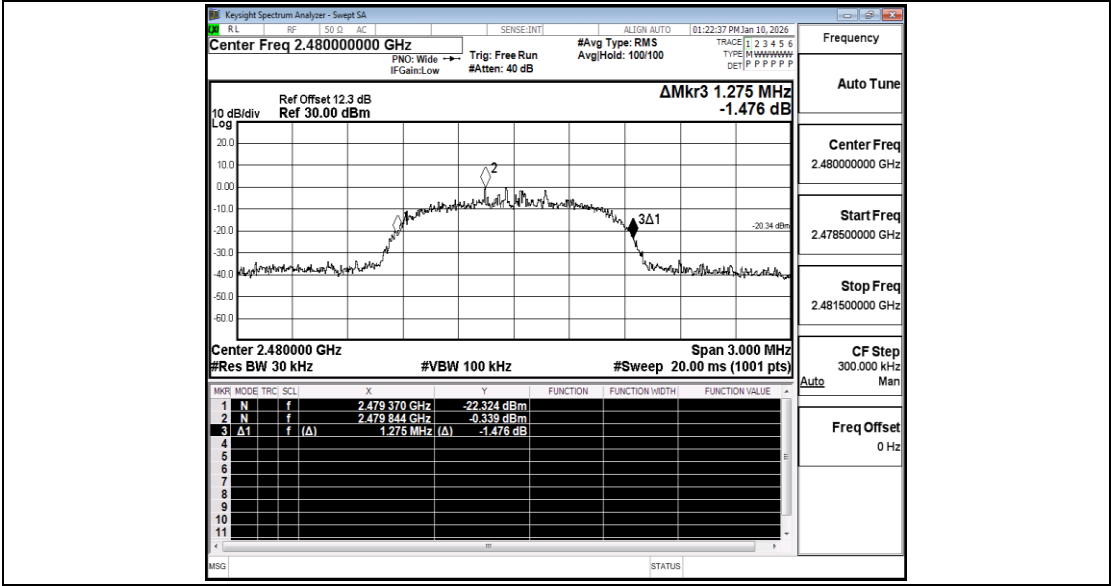
Test Graphs











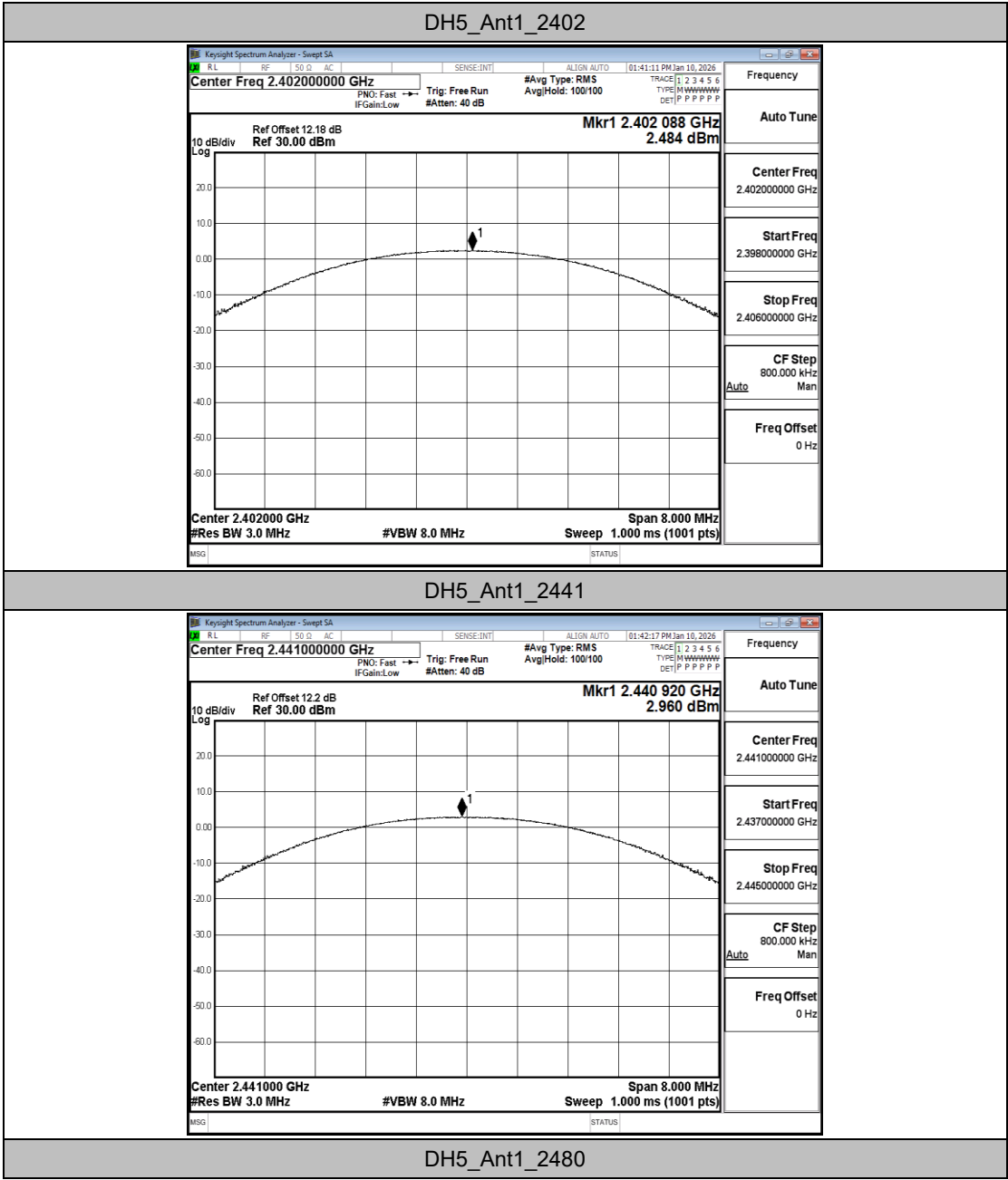
A.2 Maximum Peak conducted output power

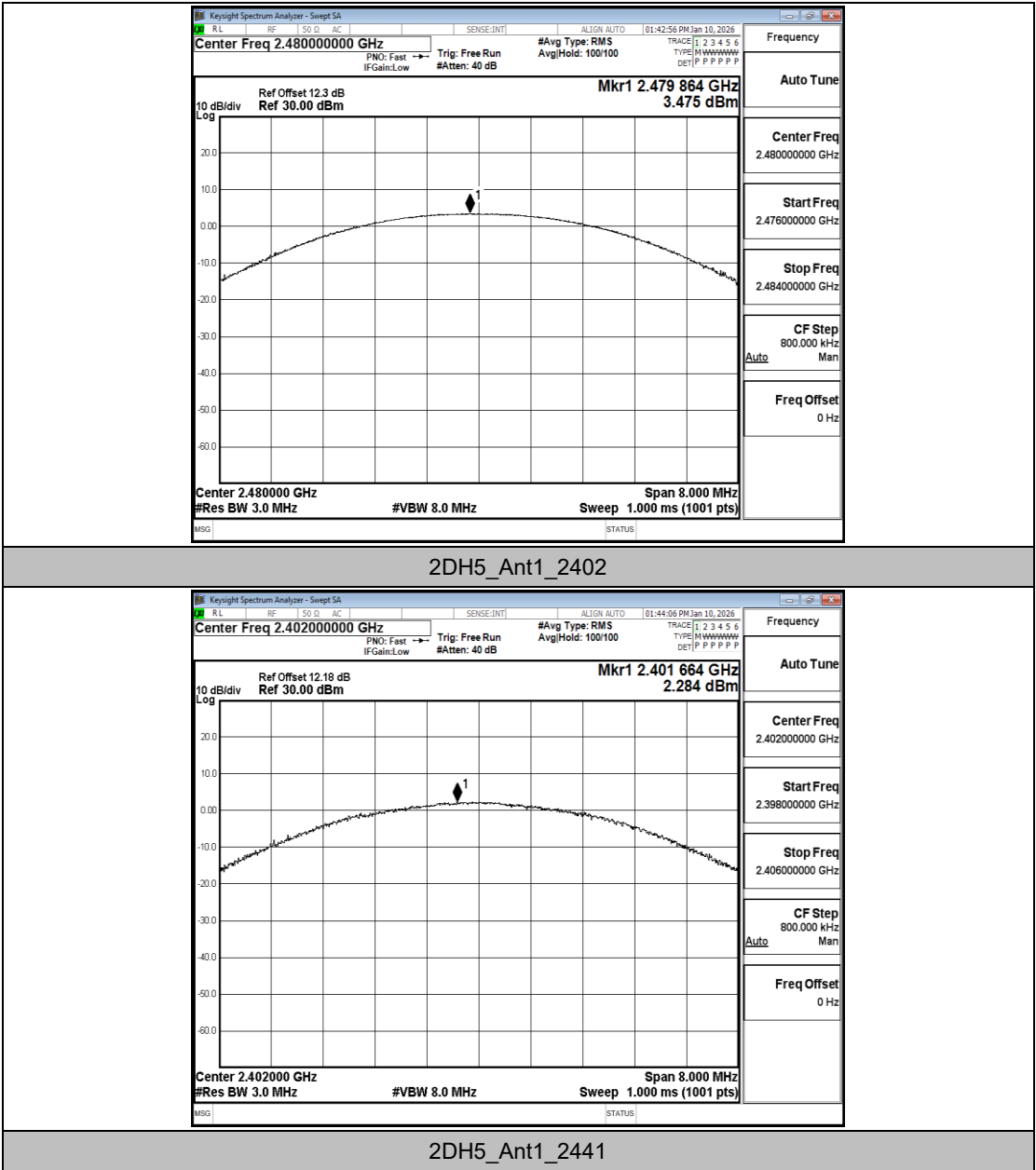
Test Result Peak

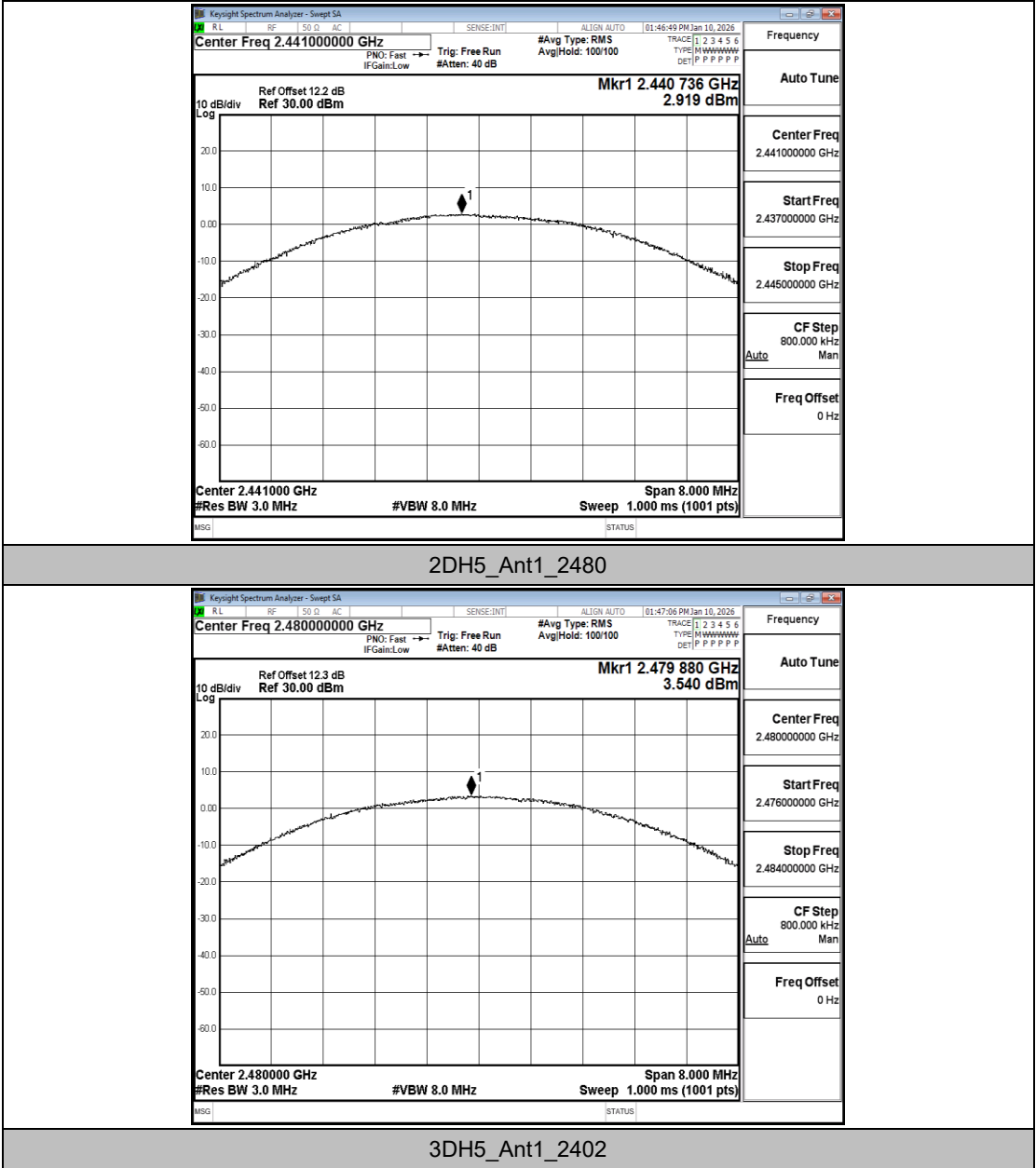
Test Mode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.48	≤30	PASS
		2441	2.96	≤30	PASS
		2480	3.48	≤30	PASS
2DH5	Ant1	2402	2.28	≤20.97	PASS
		2441	2.92	≤20.97	PASS
		2480	3.54	≤20.97	PASS
3DH5	Ant1	2402	2.37	≤20.97	PASS
		2441	2.89	≤20.97	PASS
		2480	3.32	≤20.97	PASS

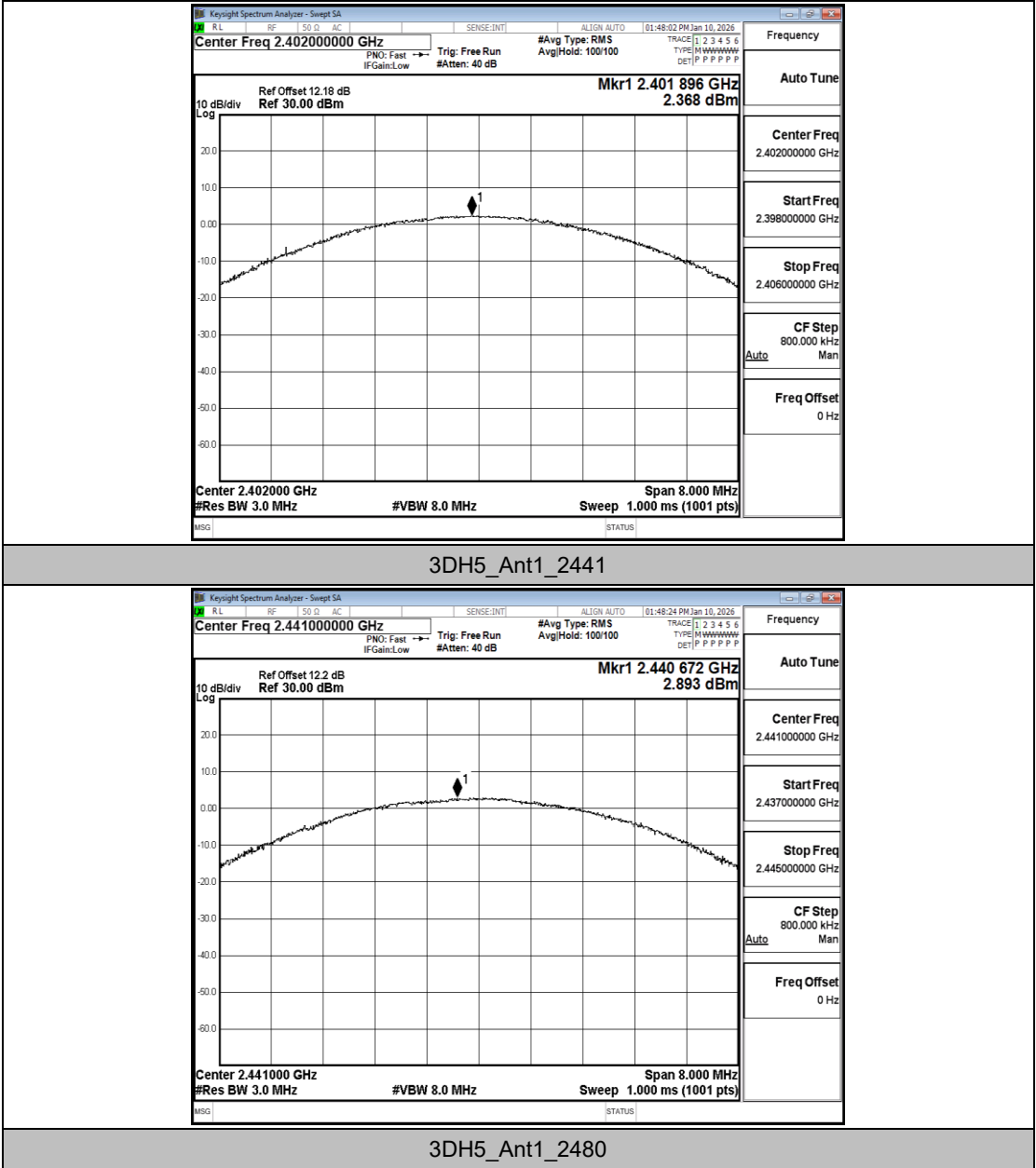
Note: offset=System attenuation +cabal loss

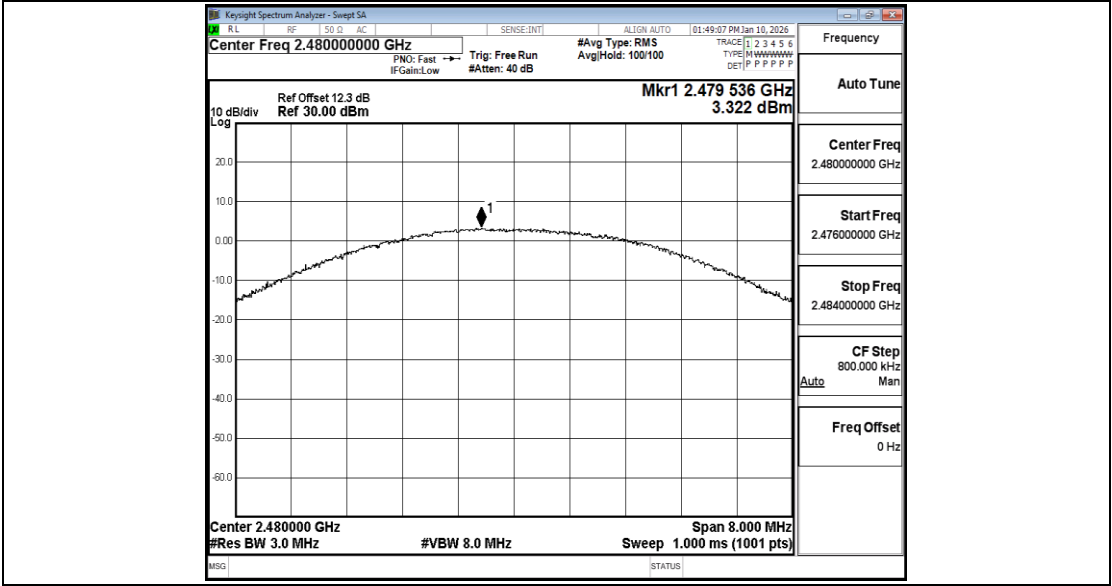
Test Graphs











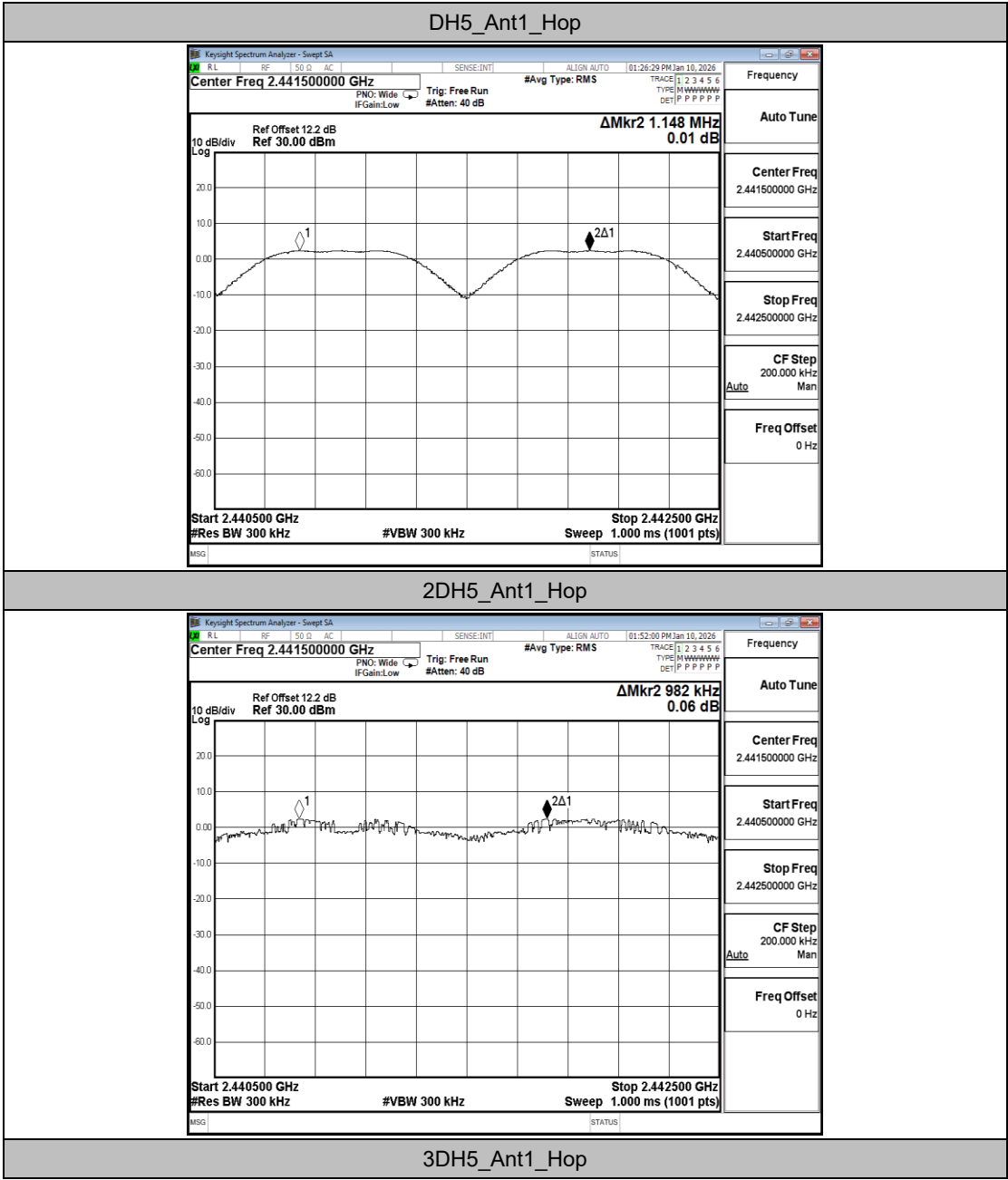
A.3 Carrier frequency separation

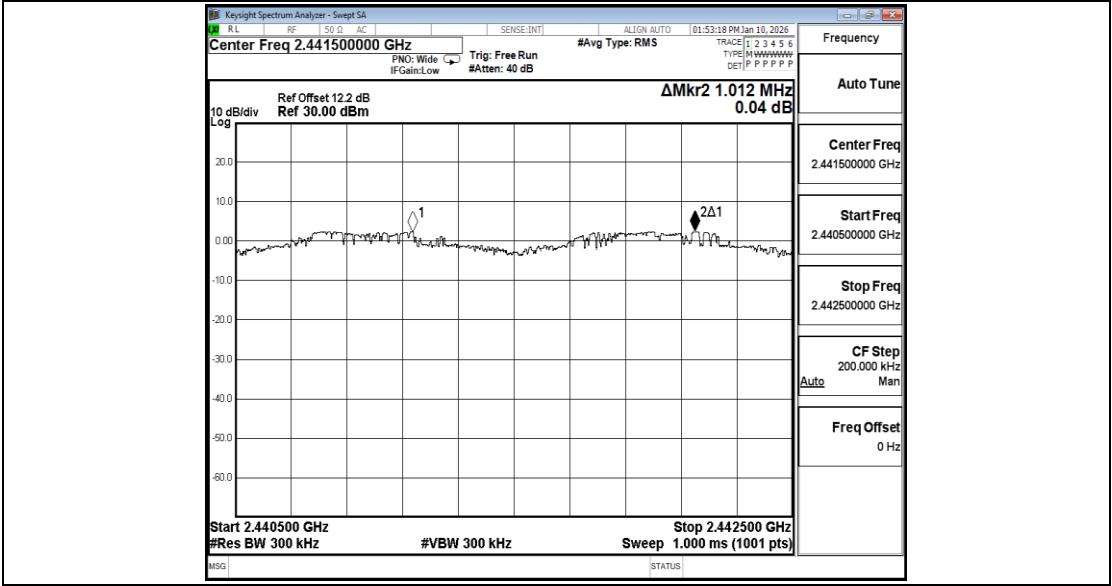
Test Result

TestMode	Antenna	Freq (MHz)	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.148	≥0.658	PASS
2DH5	Ant1	Hop	0.982	≥0.848	PASS
3DH5	Ant1	Hop	1.012	≥0.860	PASS

Note: offset=System attenuation +cabal loss

Test Graphs





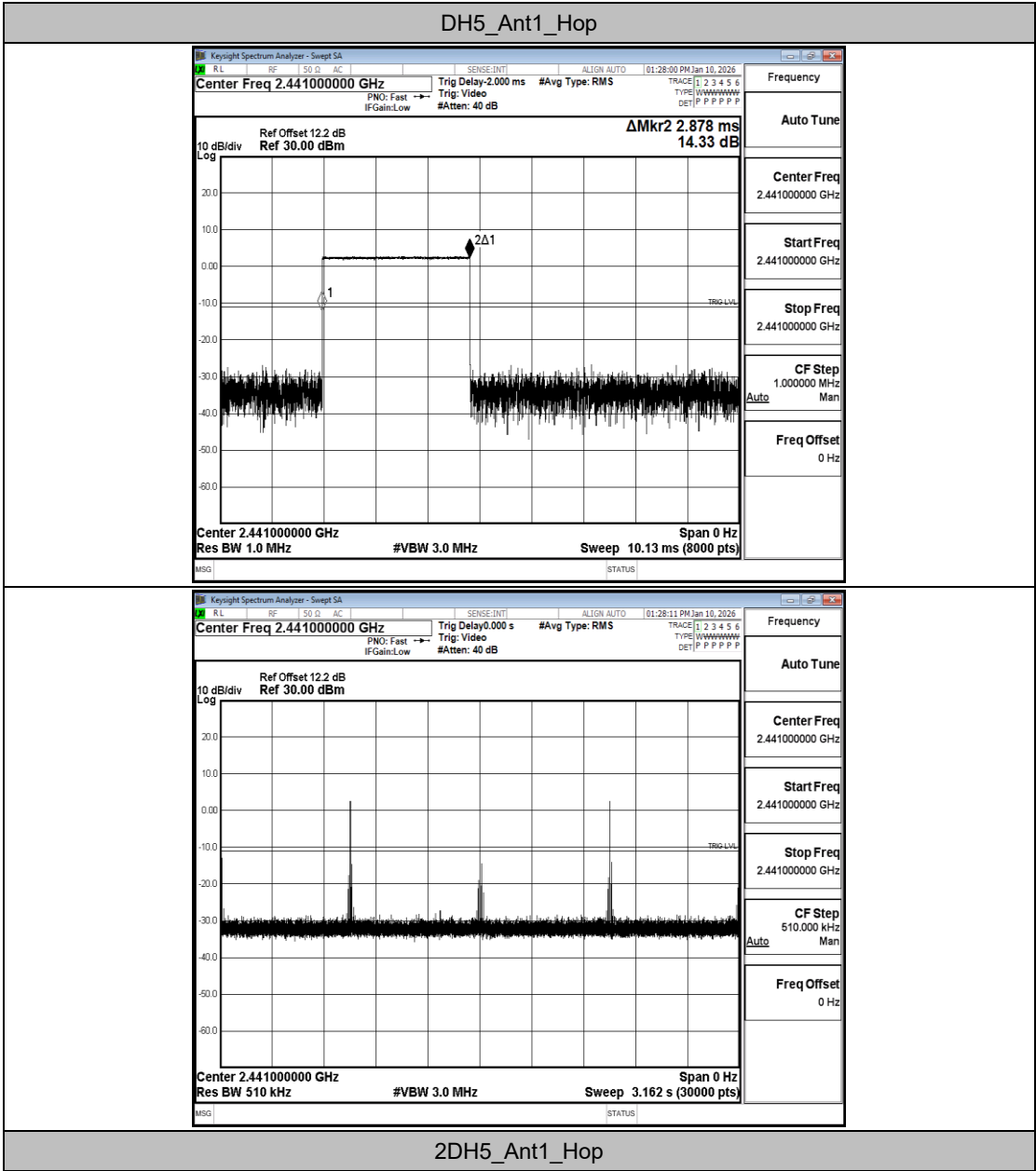
A.4 Time of occupancy

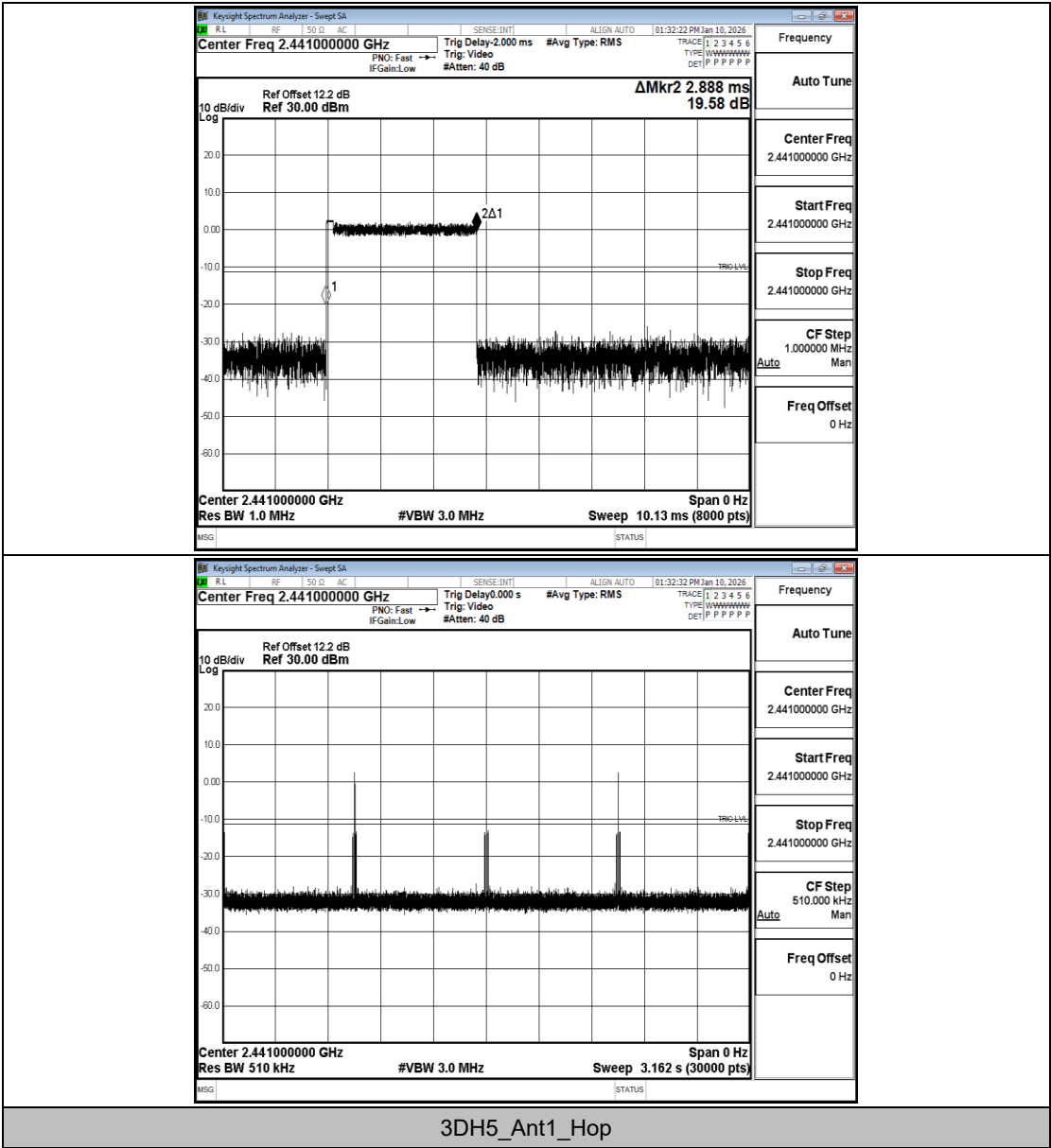
Test Result

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	2.888	40	0.116	≤0.4	PASS
3DH5	Ant1	Hop	2.887	40	0.115	≤0.4	PASS

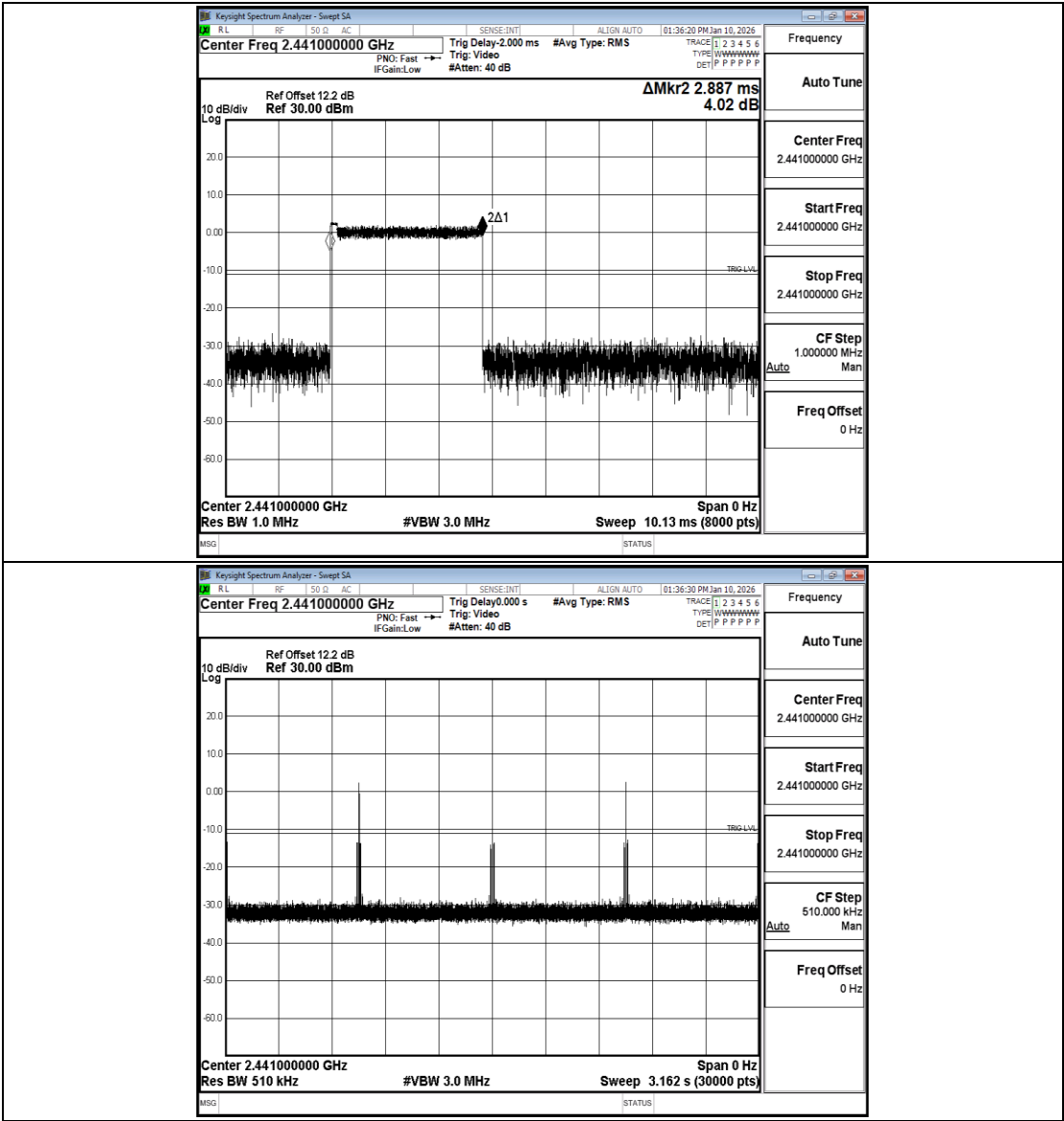
Note: offset=System attenuation +cable loss

Test Graphs





3DH5_Ant1_Hop



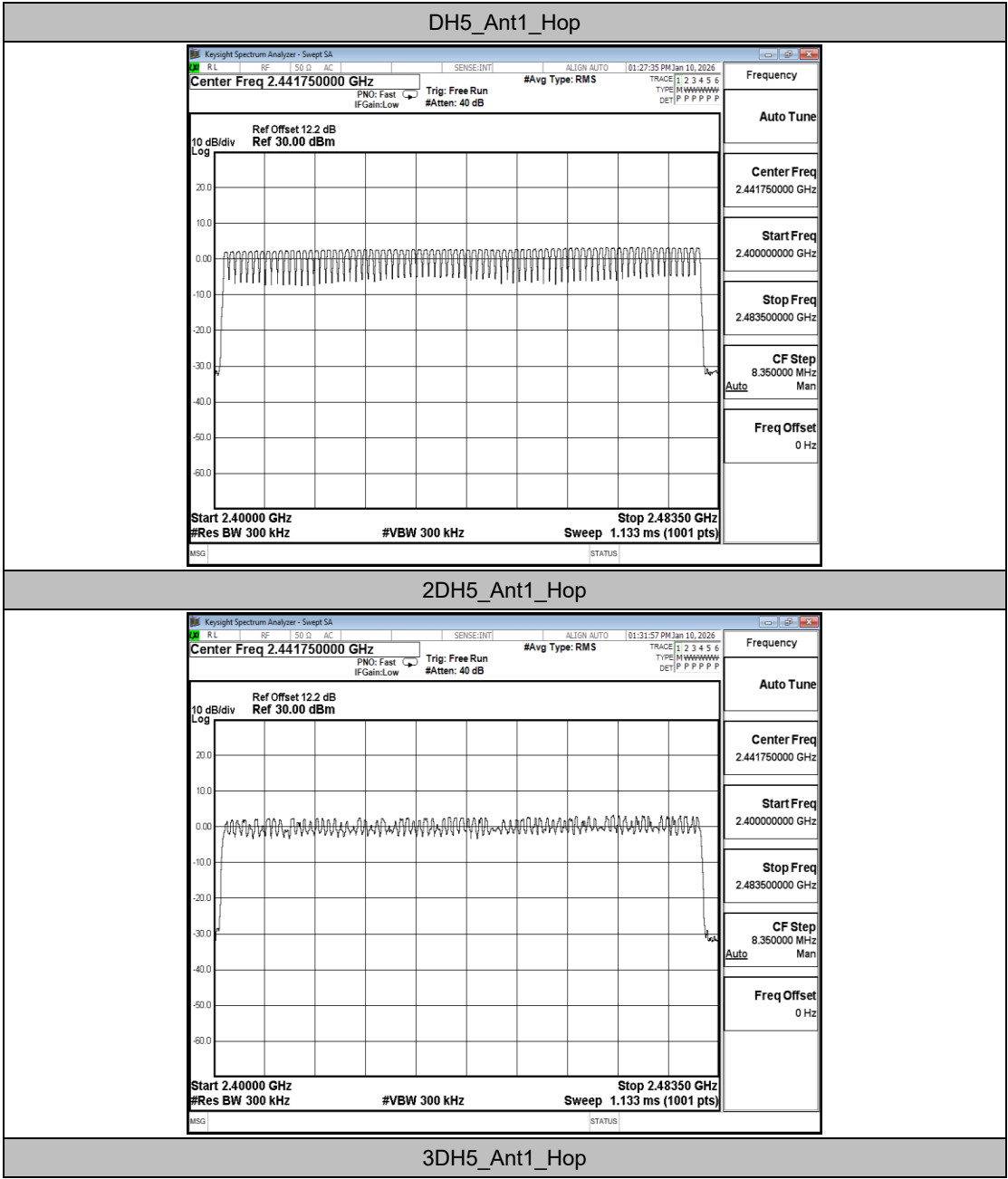
A.5 Number of hopping channels

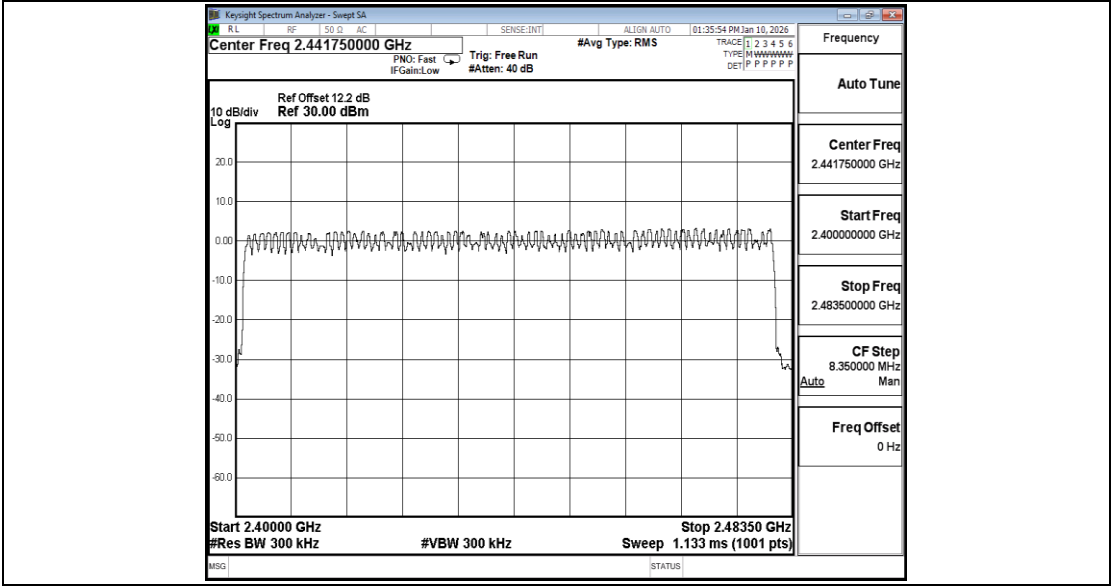
Test Result

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

Note: offset=System attenuation +cabal loss

Test Graphs





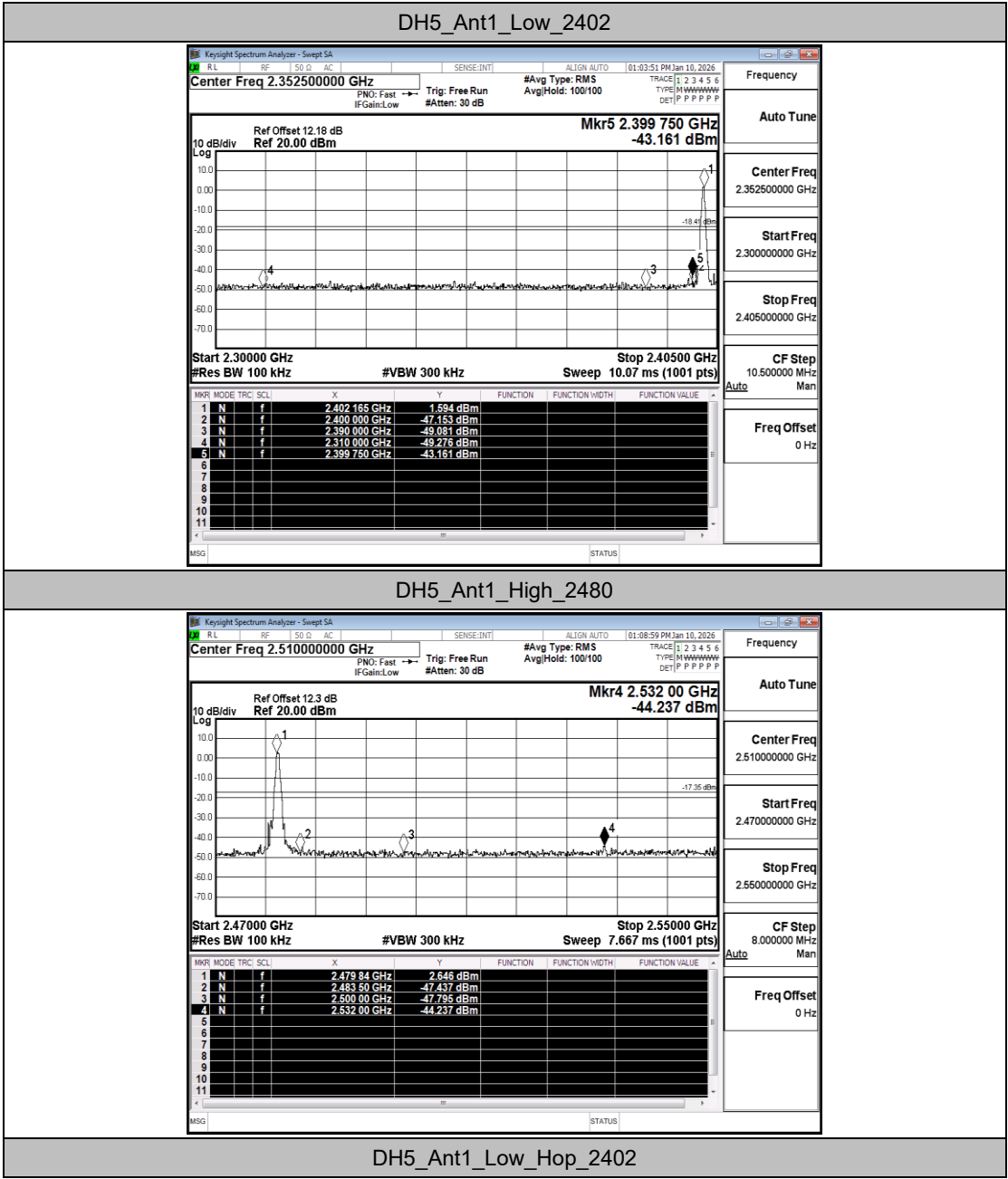
A.6 Band edge measurements

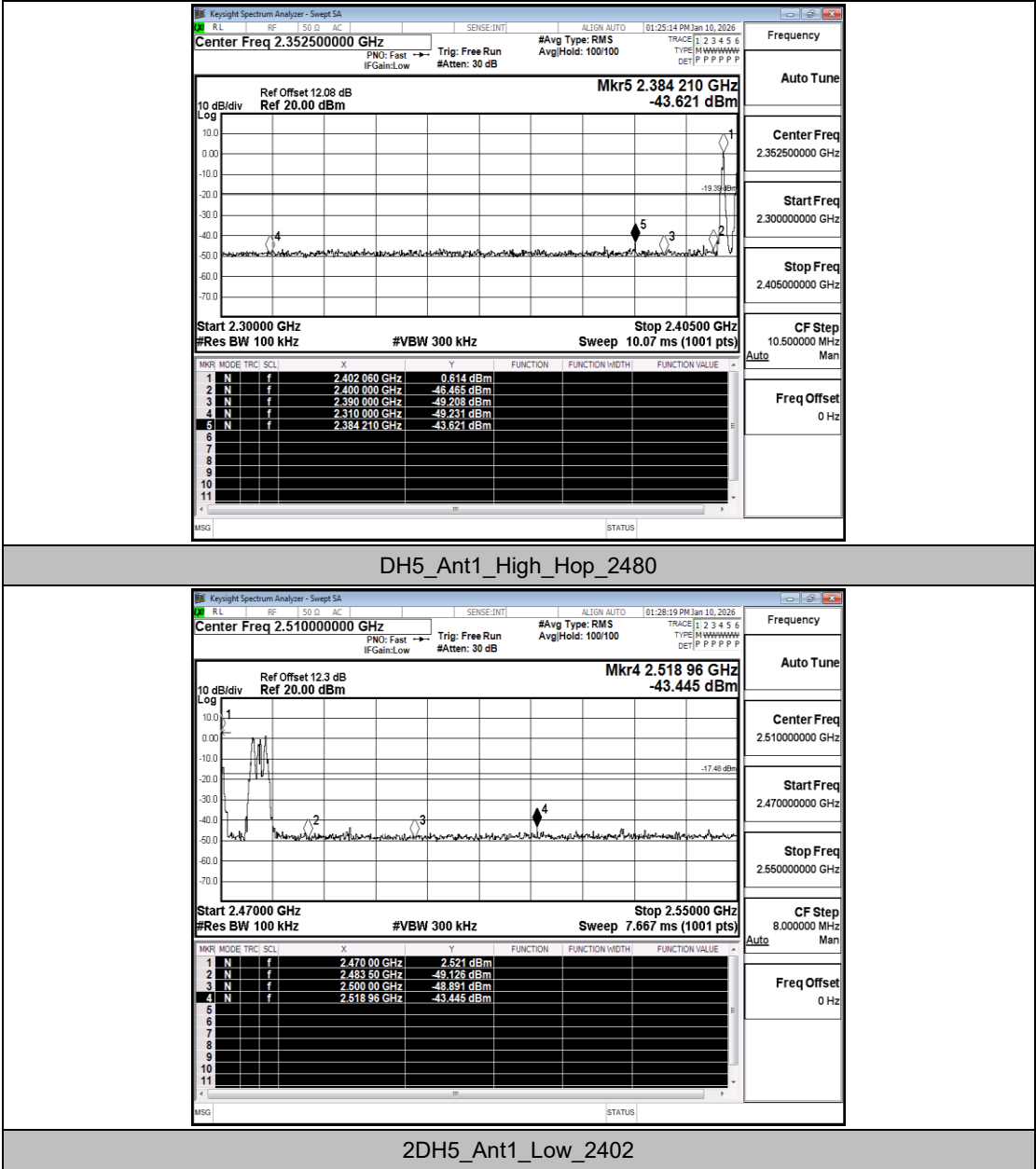
Test Result

TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.59	-43.16	≤-18.41	PASS
		High	2480	2.65	-44.24	≤-17.35	PASS
		Low	Hop_2402	0.61	-43.62	≤-19.39	PASS
		High	Hop_2480	2.52	-43.45	≤-17.48	PASS
2DH5	Ant1	Low	2402	-0.87	-42.18	≤-20.87	PASS
		High	2480	-1.91	-45.29	≤-21.91	PASS
		Low	Hop_2402	-6.03	-45.84	≤-26.03	PASS
		High	Hop_2480	-4.28	-44.63	≤-24.28	PASS
3DH5	Ant1	Low	2402	0.55	-42.84	≤-19.45	PASS
		High	2480	1.04	-45.23	≤-18.96	PASS
		Low	Hop_2402	-4.58	-45.38	≤-24.58	PASS
		High	Hop_2480	-2.73	-45.44	≤-22.73	PASS

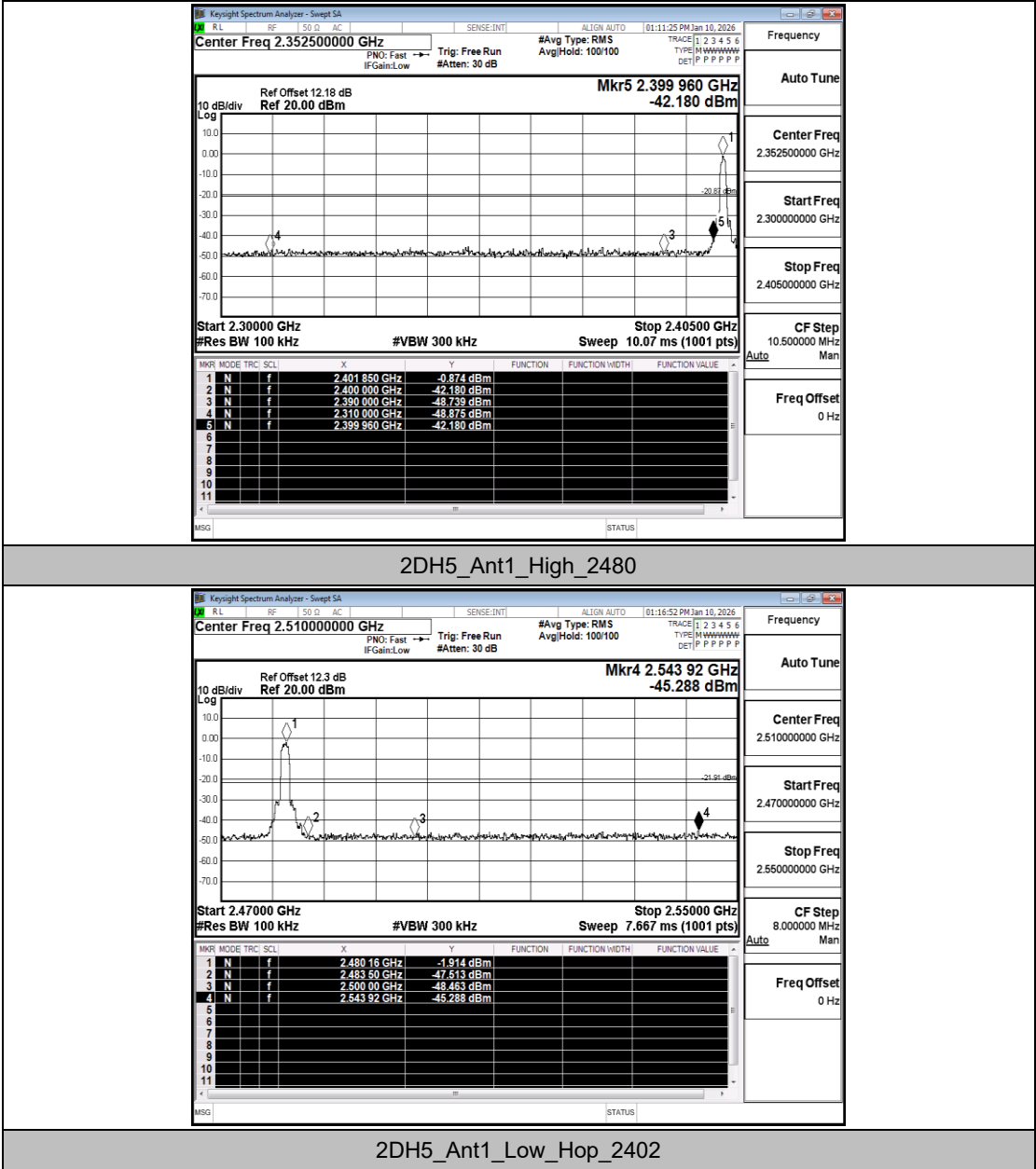
Note: offset=System attenuation +caval loss

Test Graphs

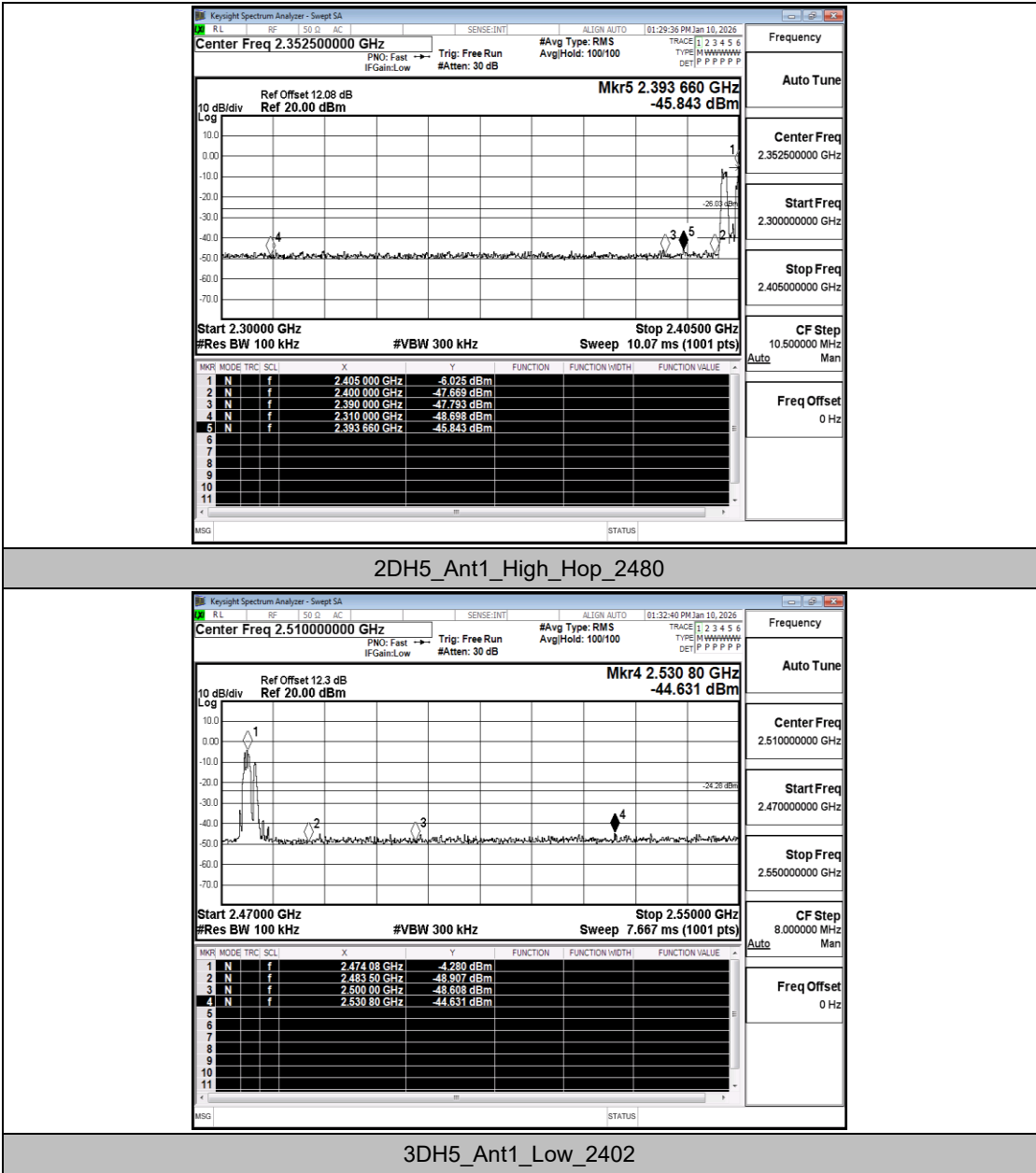


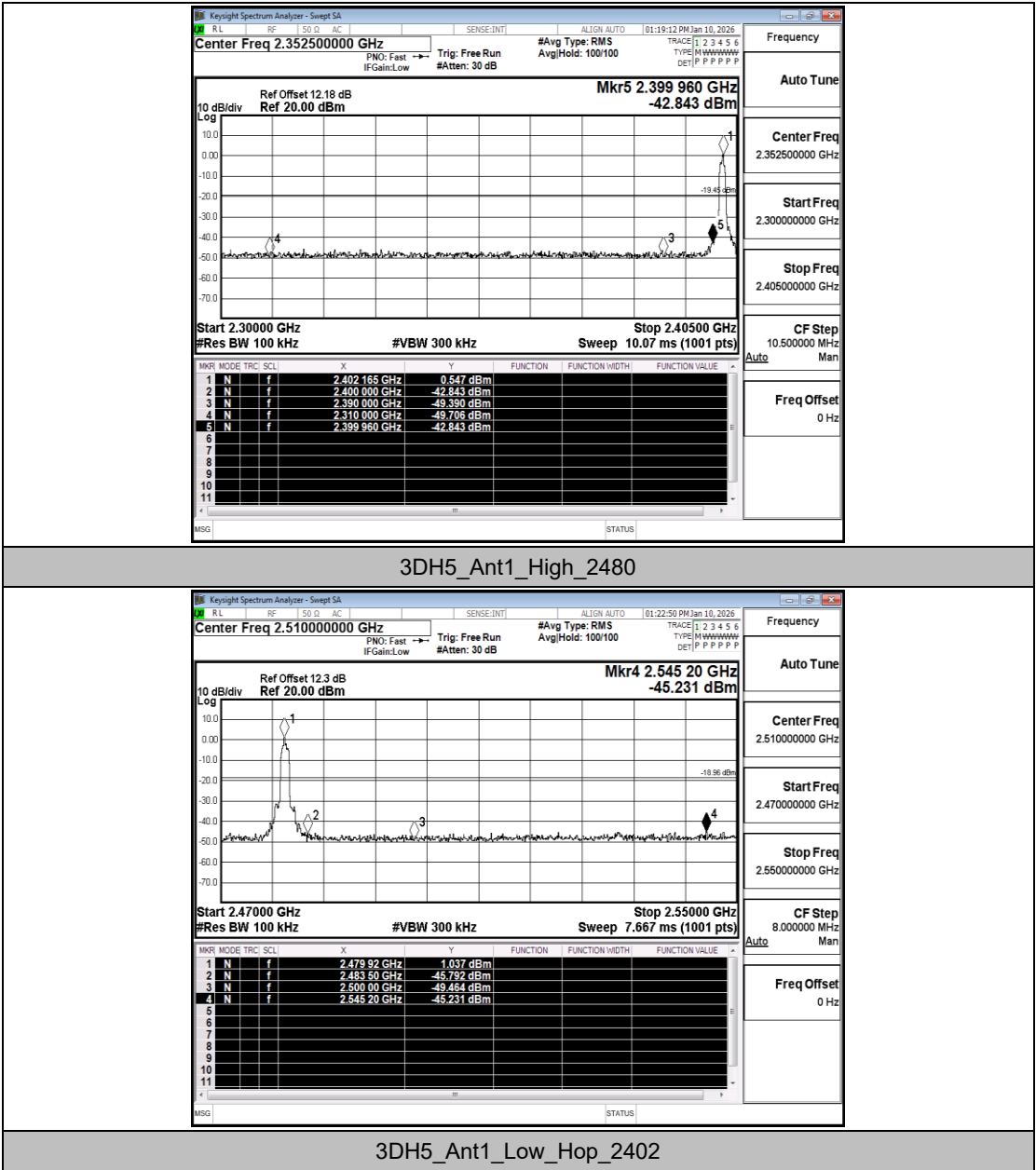


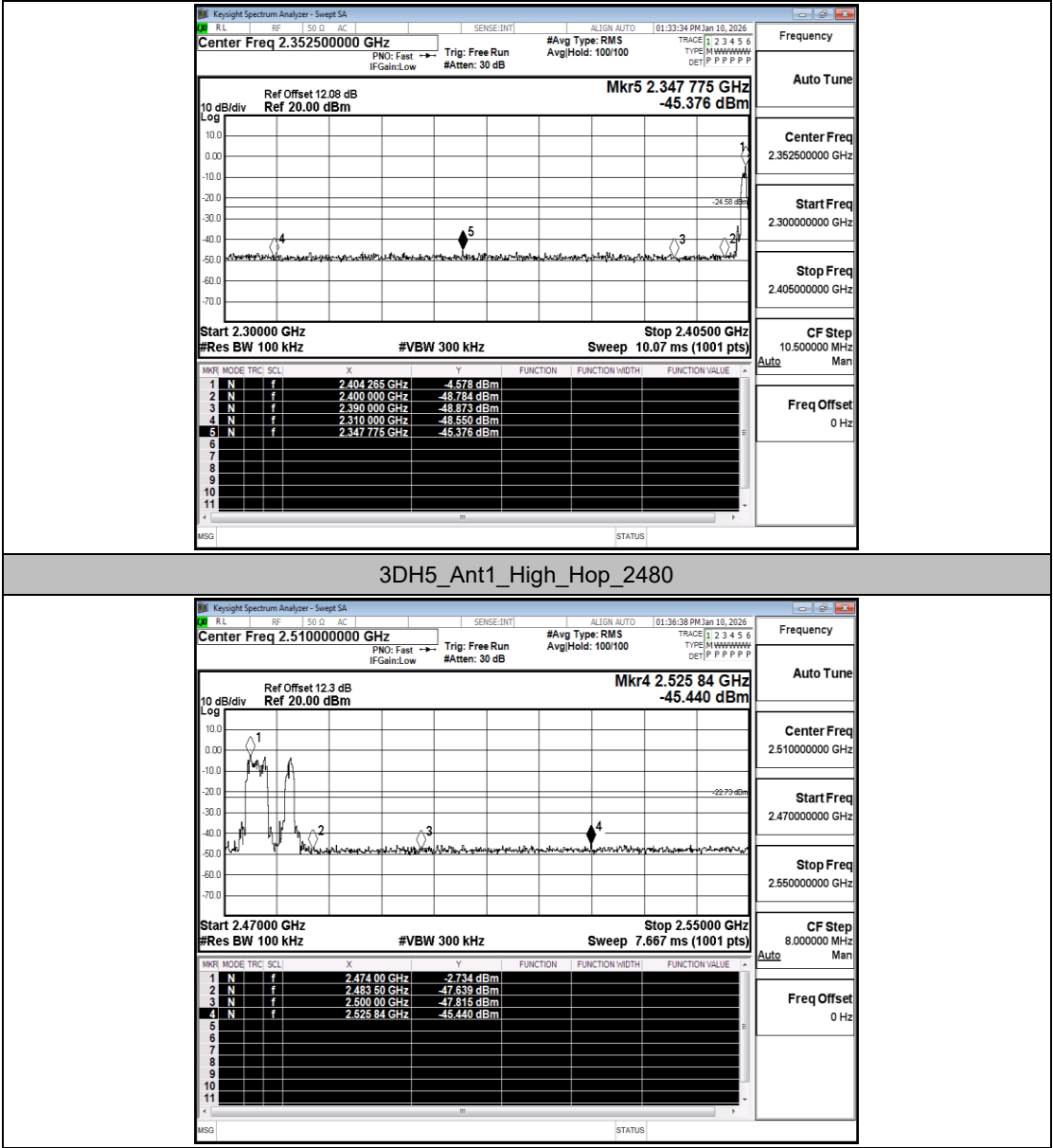
2DH5_Ant1_Low_2402



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	0.67	0.67	---	PASS
			30~1000	0.67	-54.74	≤-19.33	PASS
			1000~26500	0.67	-39.77	≤-19.33	PASS
		2441	Reference	1.52	1.52	---	PASS
			30~1000	1.52	-57.73	≤-18.48	PASS
			1000~26500	1.52	-40.47	≤-18.48	PASS
		2480	Reference	2.83	2.83	---	PASS
			30~1000	2.83	-63.49	≤-17.17	PASS
			1000~26500	2.83	-40.57	≤-17.17	PASS
2DH5	Ant1	2402	Reference	0.68	0.68	---	PASS
			30~1000	0.68	-62.83	≤-19.32	PASS
			1000~26500	0.68	-47.74	≤-19.32	PASS
		2441	Reference	1.36	1.36	---	PASS
			30~1000	1.36	-56.69	≤-18.64	PASS
			1000~26500	1.36	-43.4	≤-18.64	PASS
		2480	Reference	2.66	2.66	---	PASS
			30~1000	2.66	-57.34	≤-17.34	PASS
			1000~26500	2.66	-47.01	≤-17.34	PASS
3DH5	Ant1	2402	Reference	0.64	0.64	---	PASS
			30~1000	0.64	-61.18	≤-19.36	PASS
			1000~26500	0.64	-46.43	≤-19.36	PASS
		2441	Reference	1.43	1.43	---	PASS
			30~1000	1.43	-55.01	≤-18.57	PASS
			1000~26500	1.43	-45.45	≤-18.57	PASS
		2480	Reference	2.23	2.23	---	PASS
			30~1000	2.23	-60.23	≤-17.77	PASS
			1000~26500	2.23	-47.4	≤-17.77	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

