

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Enya INSPIRE PRO Electric Guitar

Test Model: Inspire Pro

Environmental Conditions

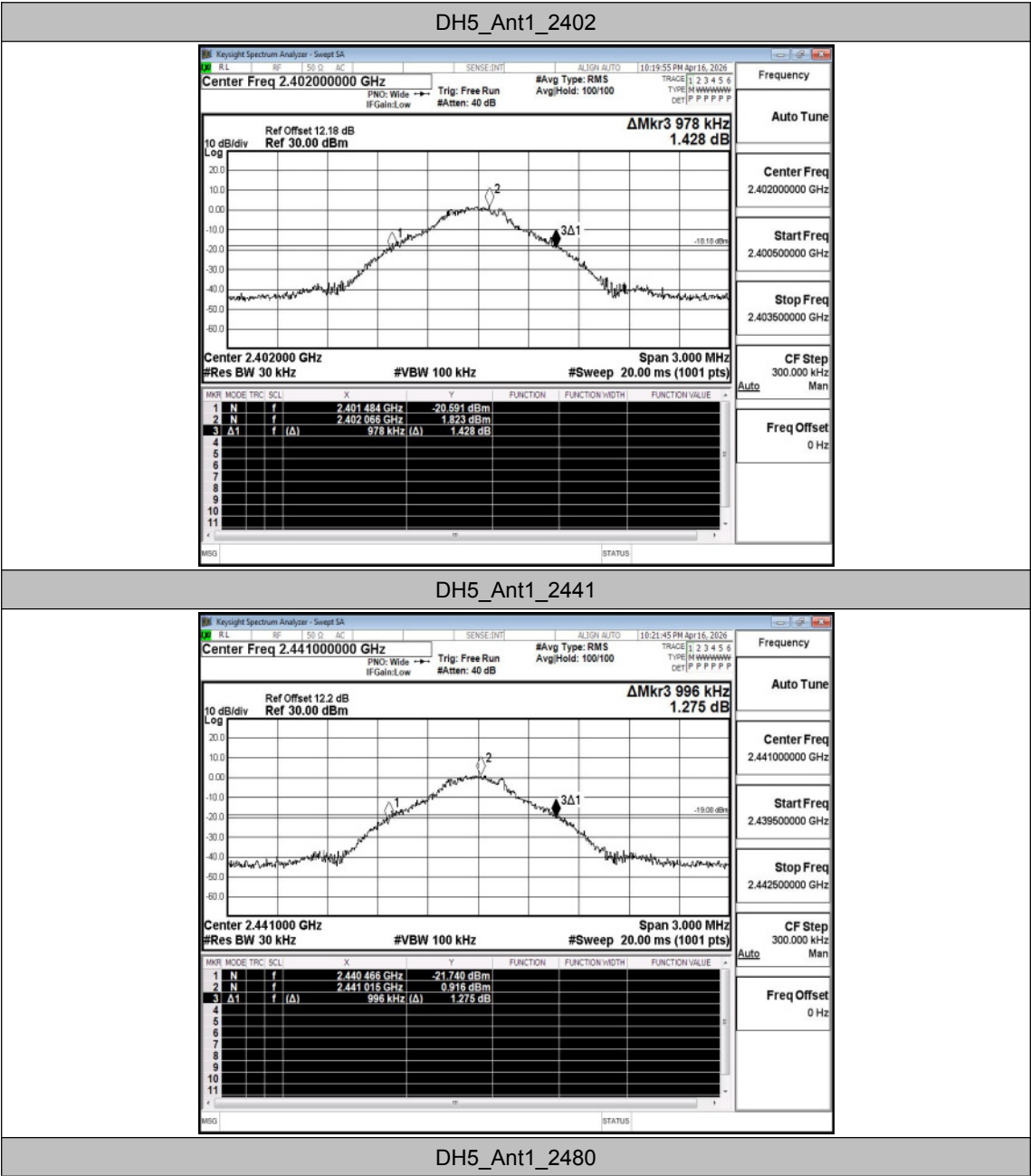
Temperature:	24.5°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	zhao xing hai
Supervised by:	Fengliu Tang

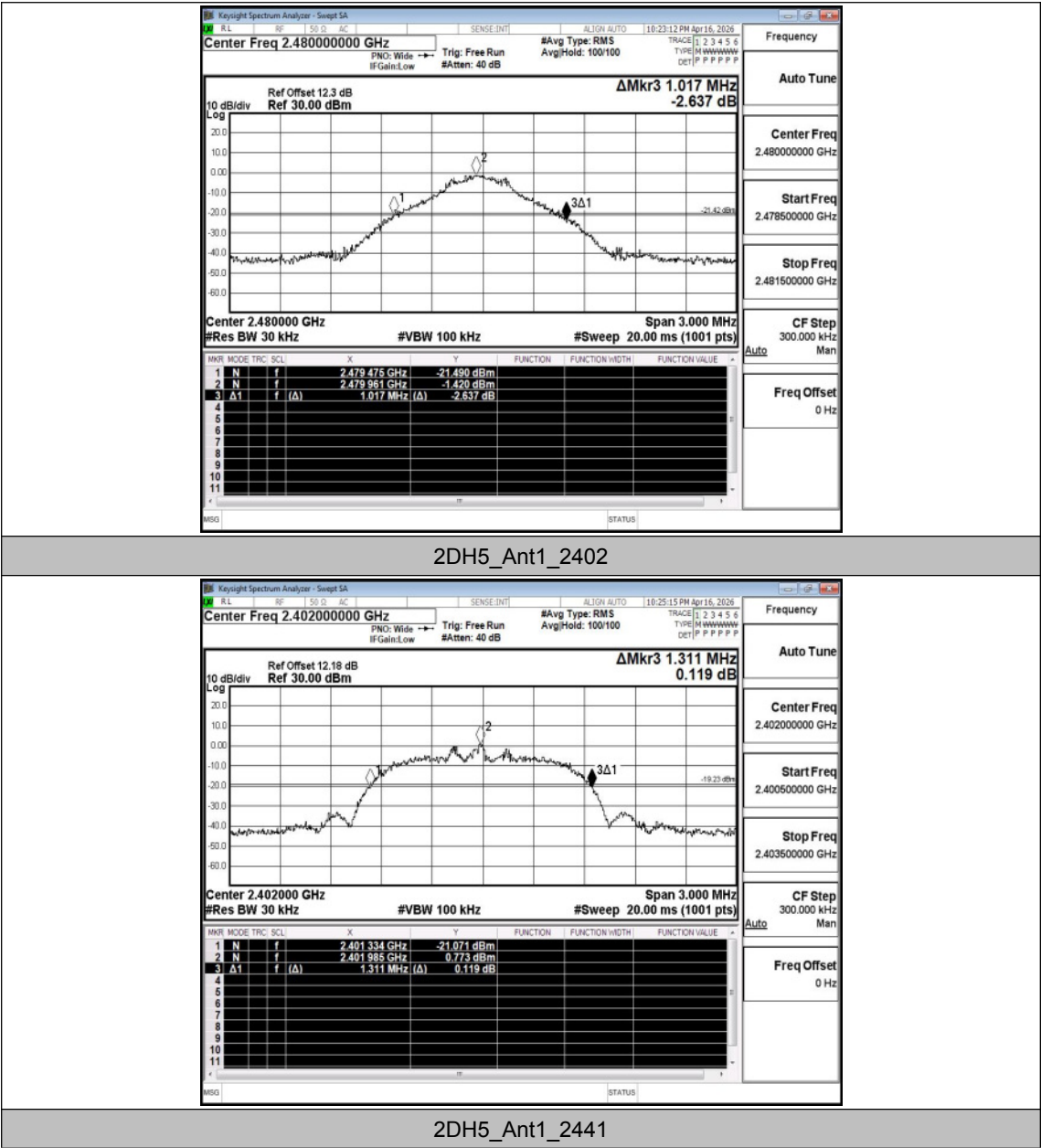
A.1 20dB Emission Bandwidth

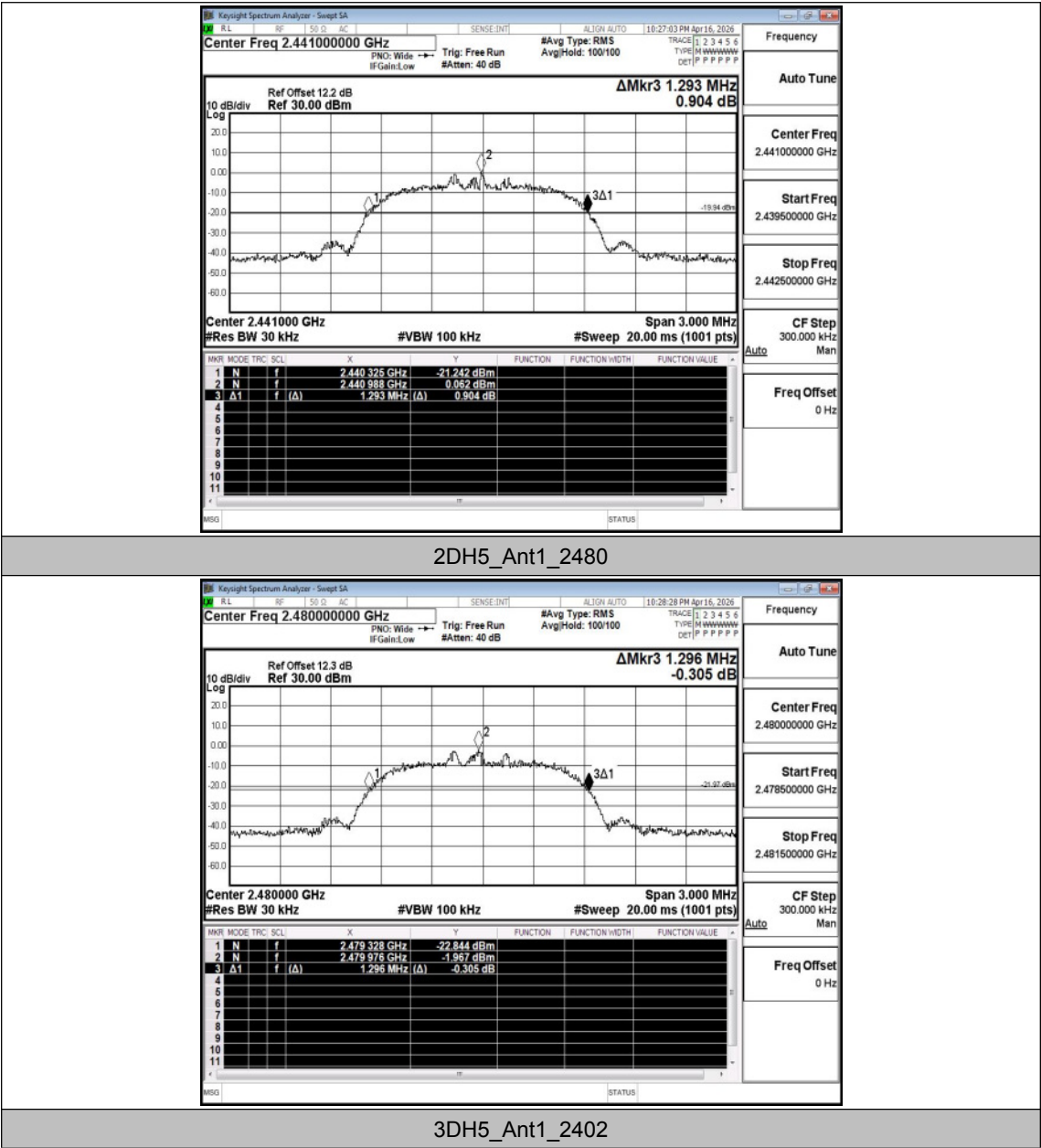
Test Result

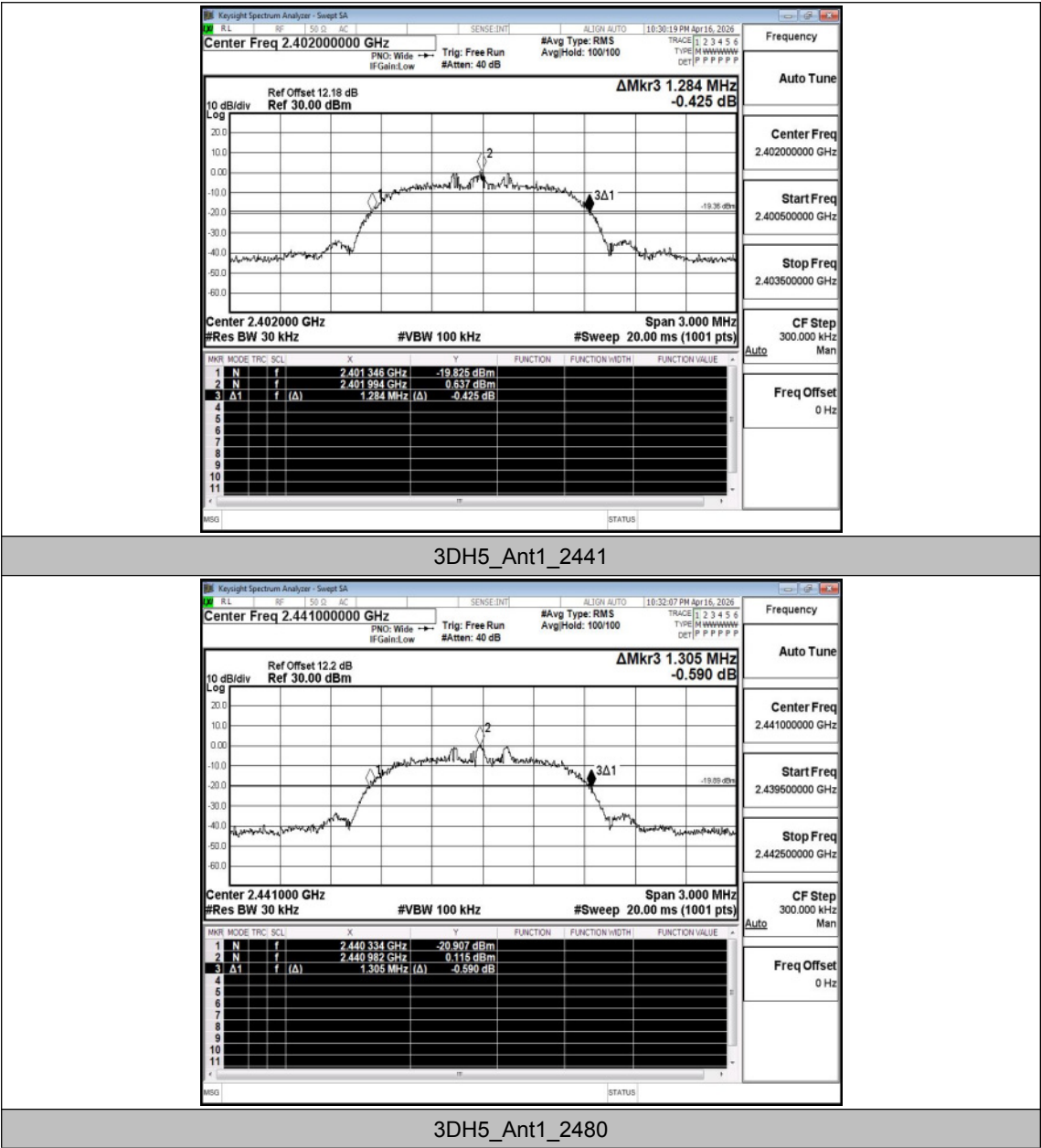
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.978	2401.484	2402.462	---	---
		2441	0.996	2440.466	2441.462	---	---
		2480	1.017	2479.475	2480.492	---	---
2DH5	Ant1	2402	1.311	2401.334	2402.645	---	---
		2441	1.293	2440.325	2441.618	---	---
		2480	1.296	2479.328	2480.624	---	---
3DH5	Ant1	2402	1.284	2401.346	2402.630	---	---
		2441	1.305	2440.334	2441.639	---	---
		2480	1.299	2479.325	2480.624	---	---

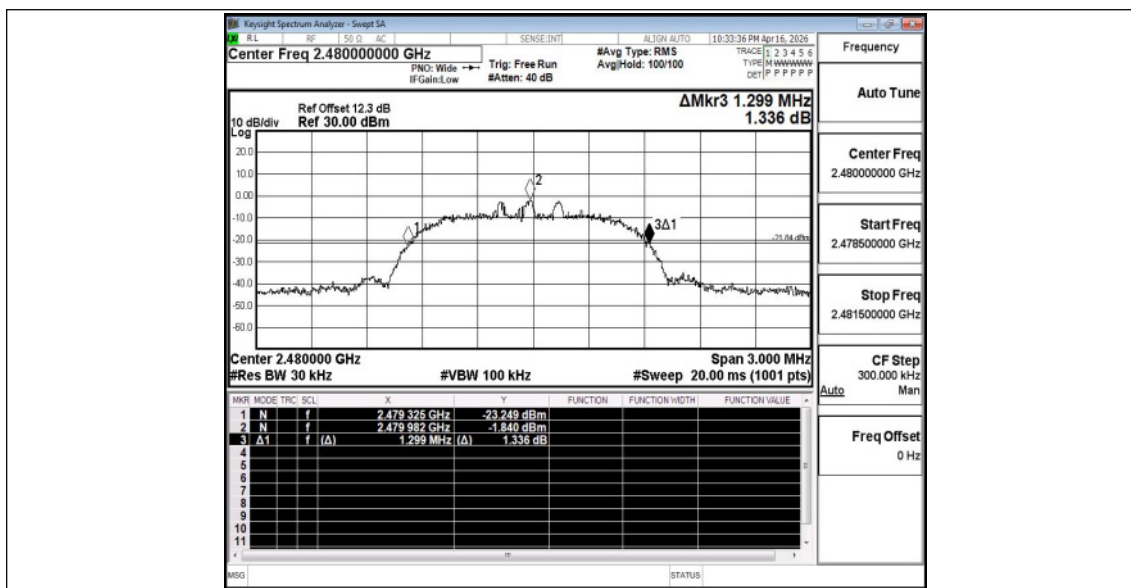
Test Graphs









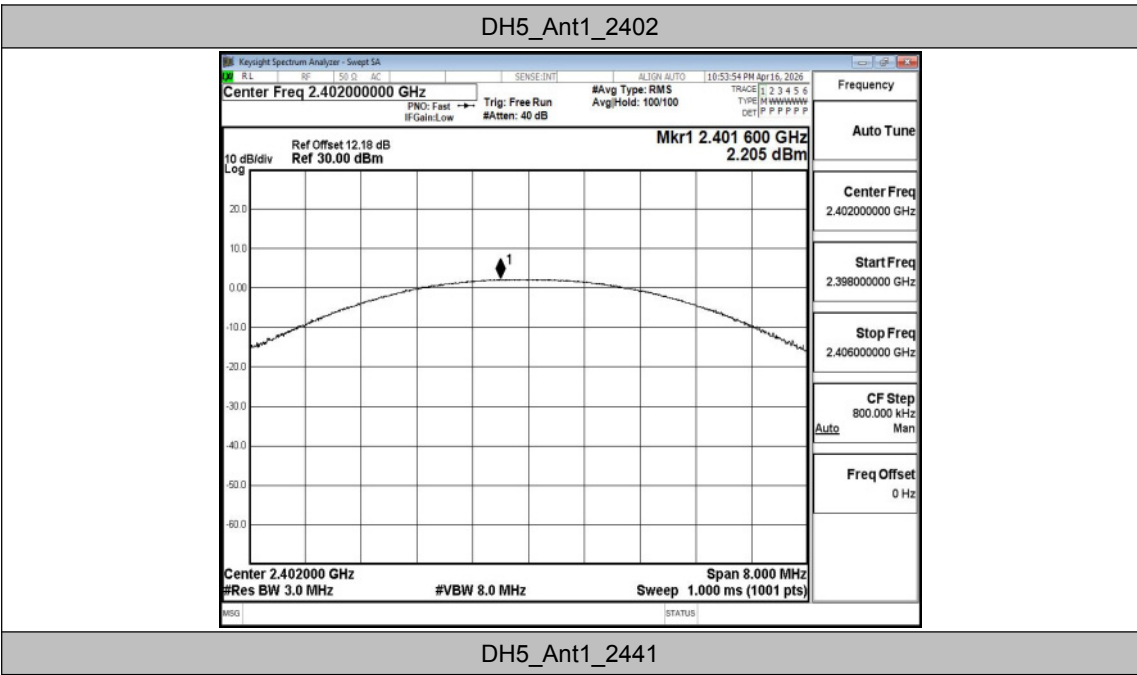


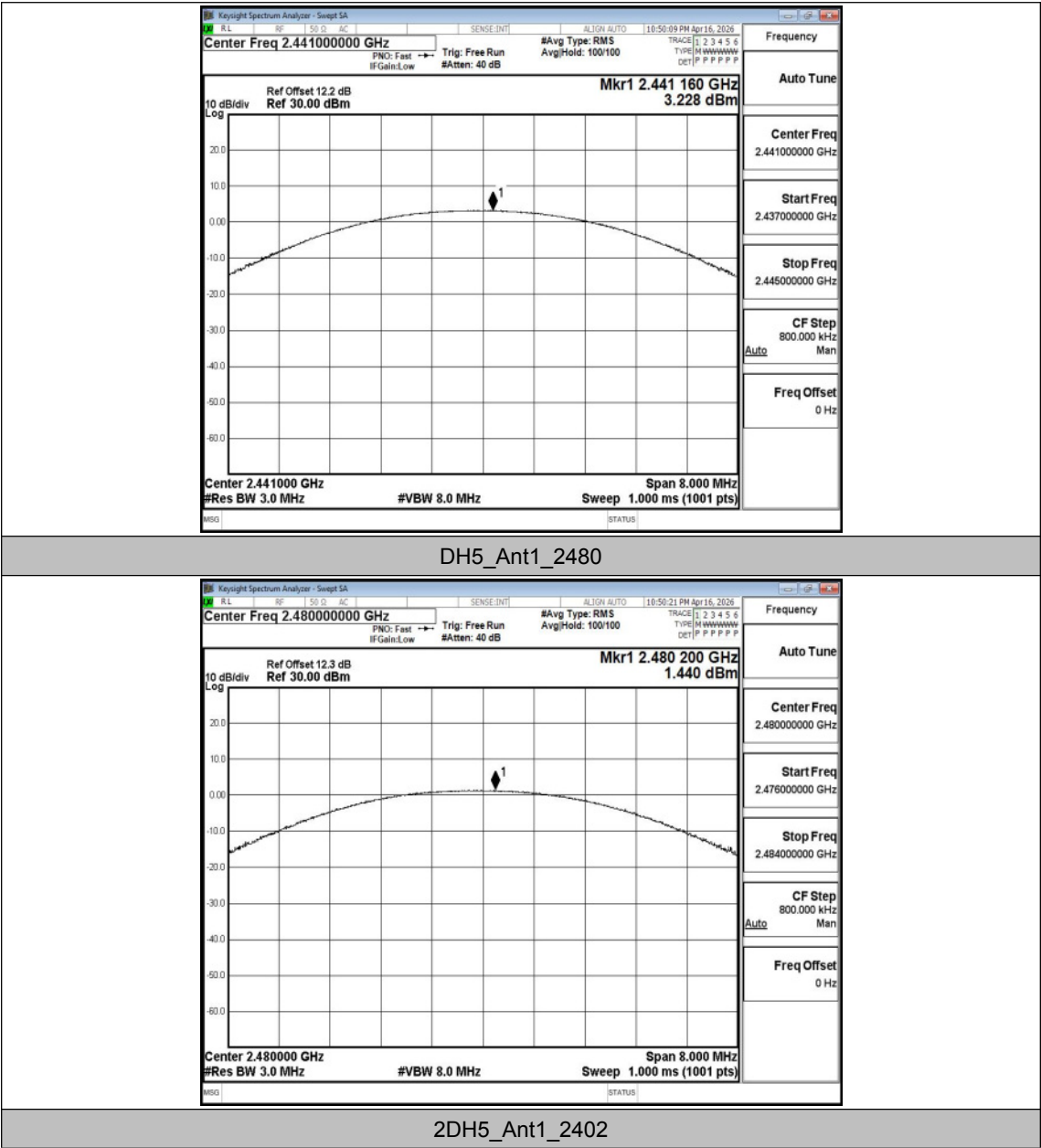
A.2 Maximum Peak conducted output power

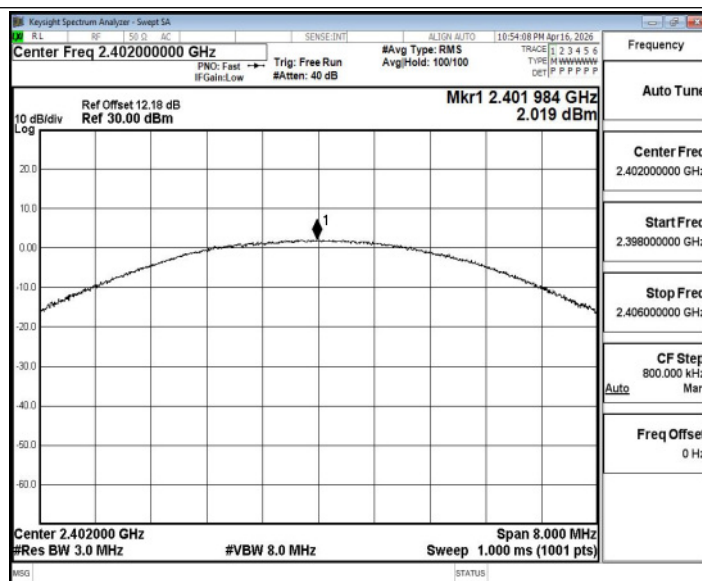
Test Result Peak

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.21	≤20.97	PASS
		2441	3.23	≤20.97	PASS
		2480	1.44	≤20.97	PASS
2DH5	Ant1	2402	2.02	≤30	PASS
		2441	3.21	≤30	PASS
		2480	1.34	≤30	PASS
3DH5	Ant1	2402	2.45	≤20.97	PASS
		2441	3.46	≤20.97	PASS
		2480	1.47	≤20.97	PASS

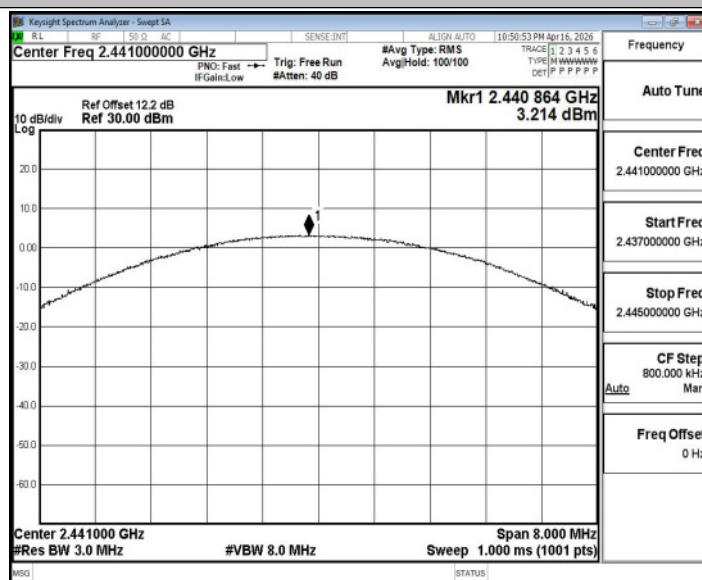
Test Graphs



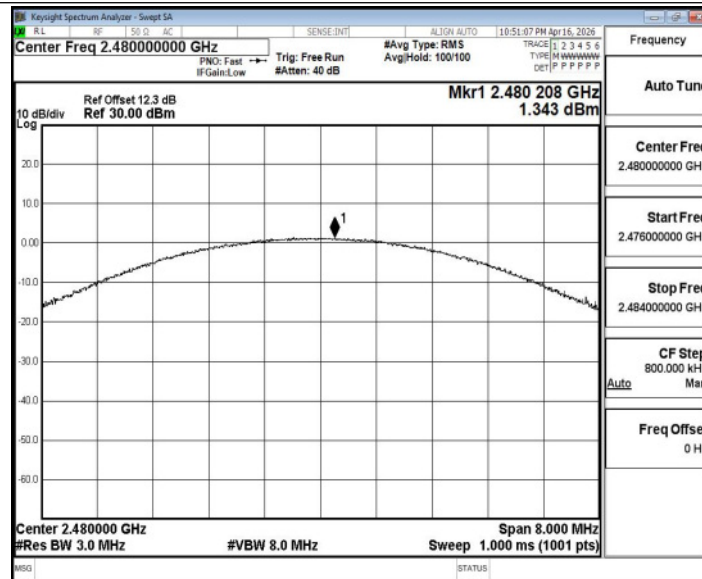




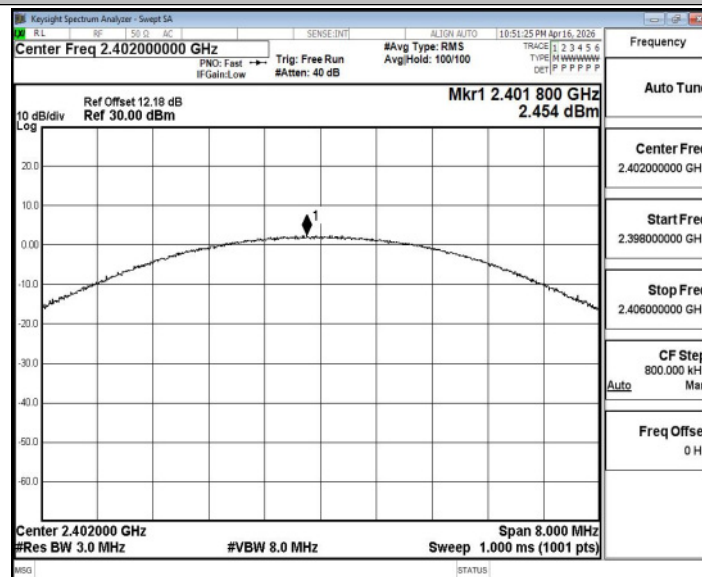
2DH5_Ant1_2441



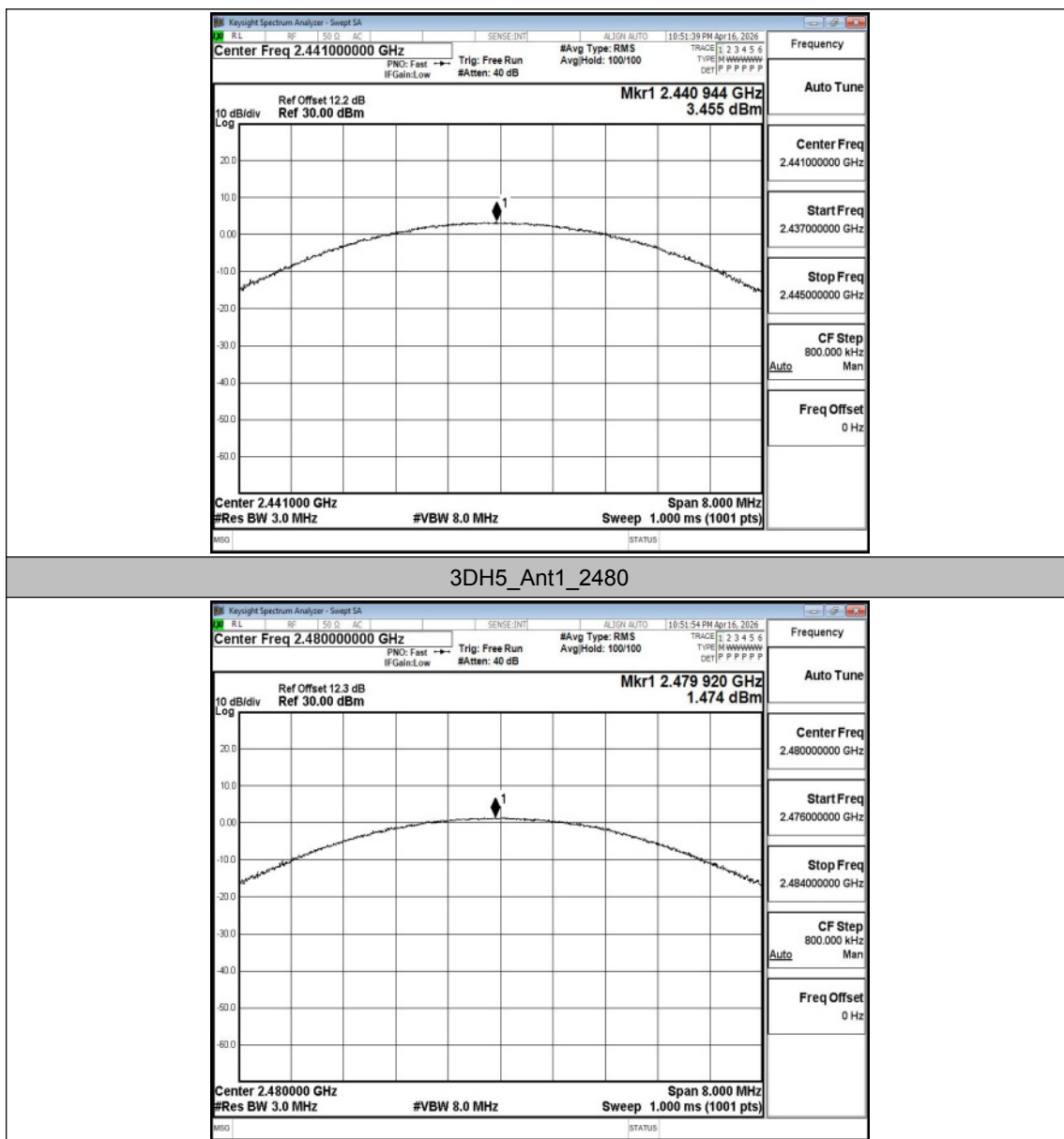
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

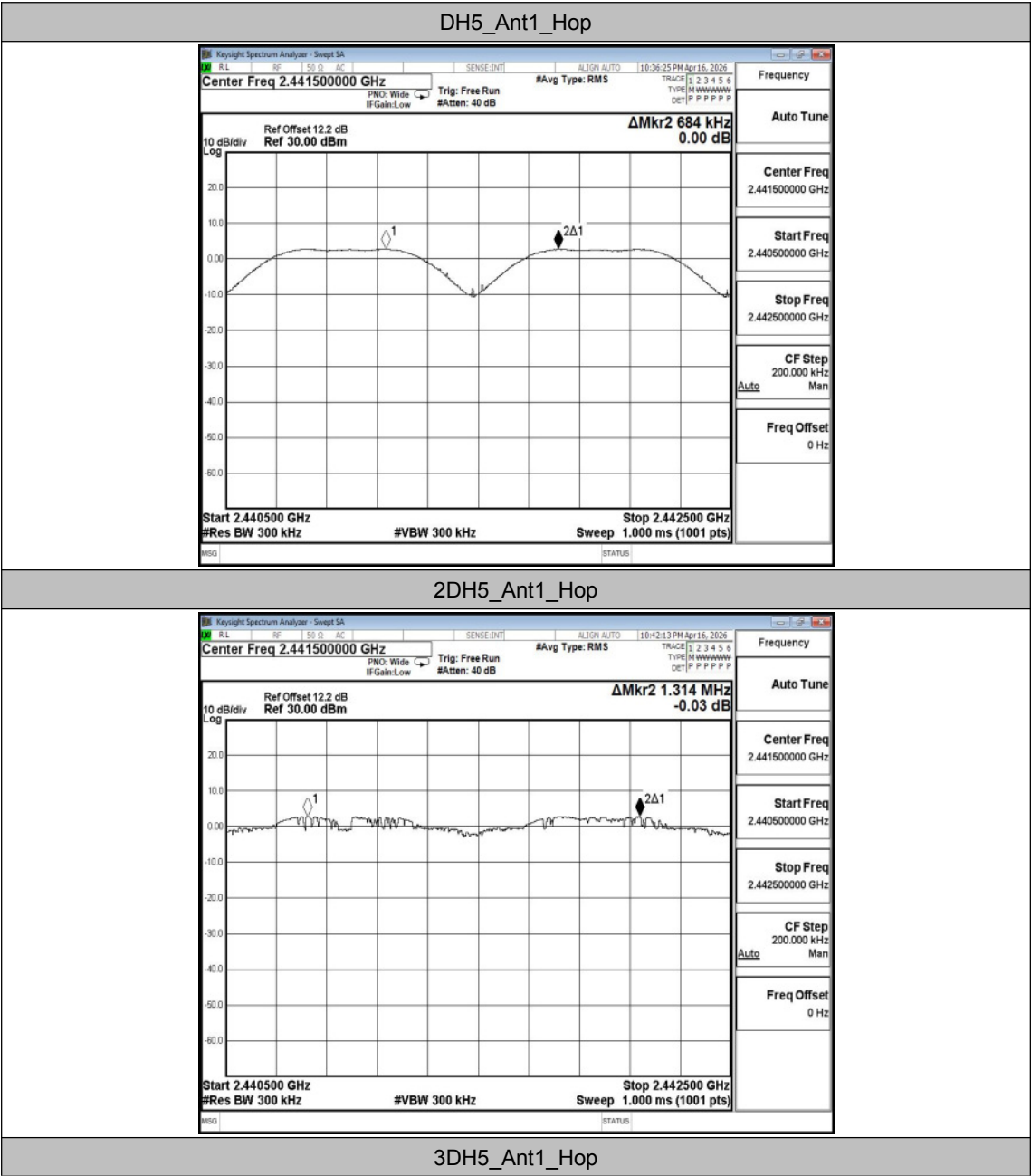


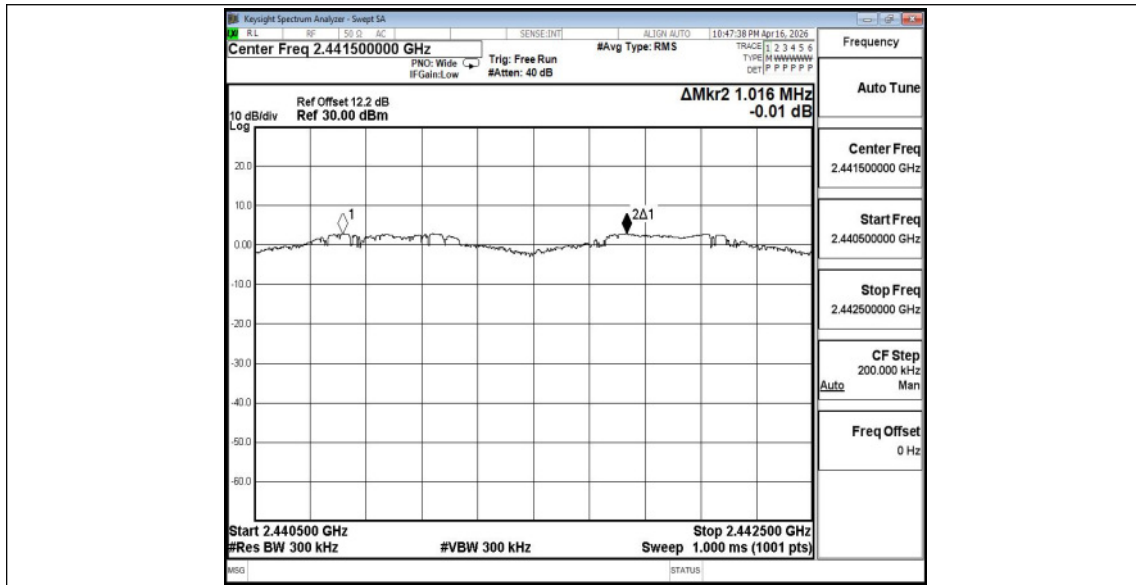
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.684	≥ 0.678	PASS
2DH5	Ant1	Hop	1.314	≥ 1.311	PASS
3DH5	Ant1	Hop	1.016	≥ 0.870	PASS

Test Graphs



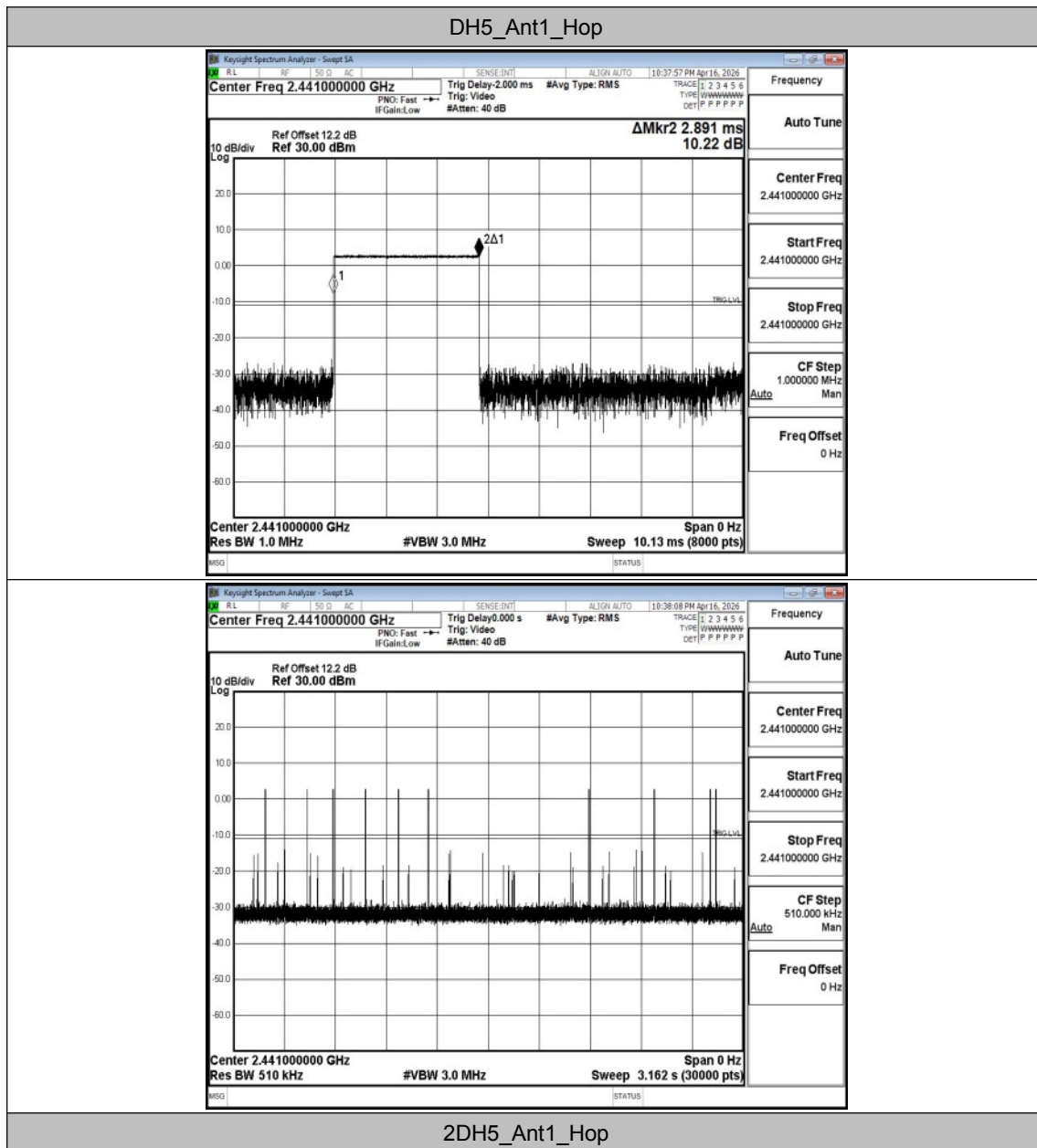


A.4 Time of occupancy

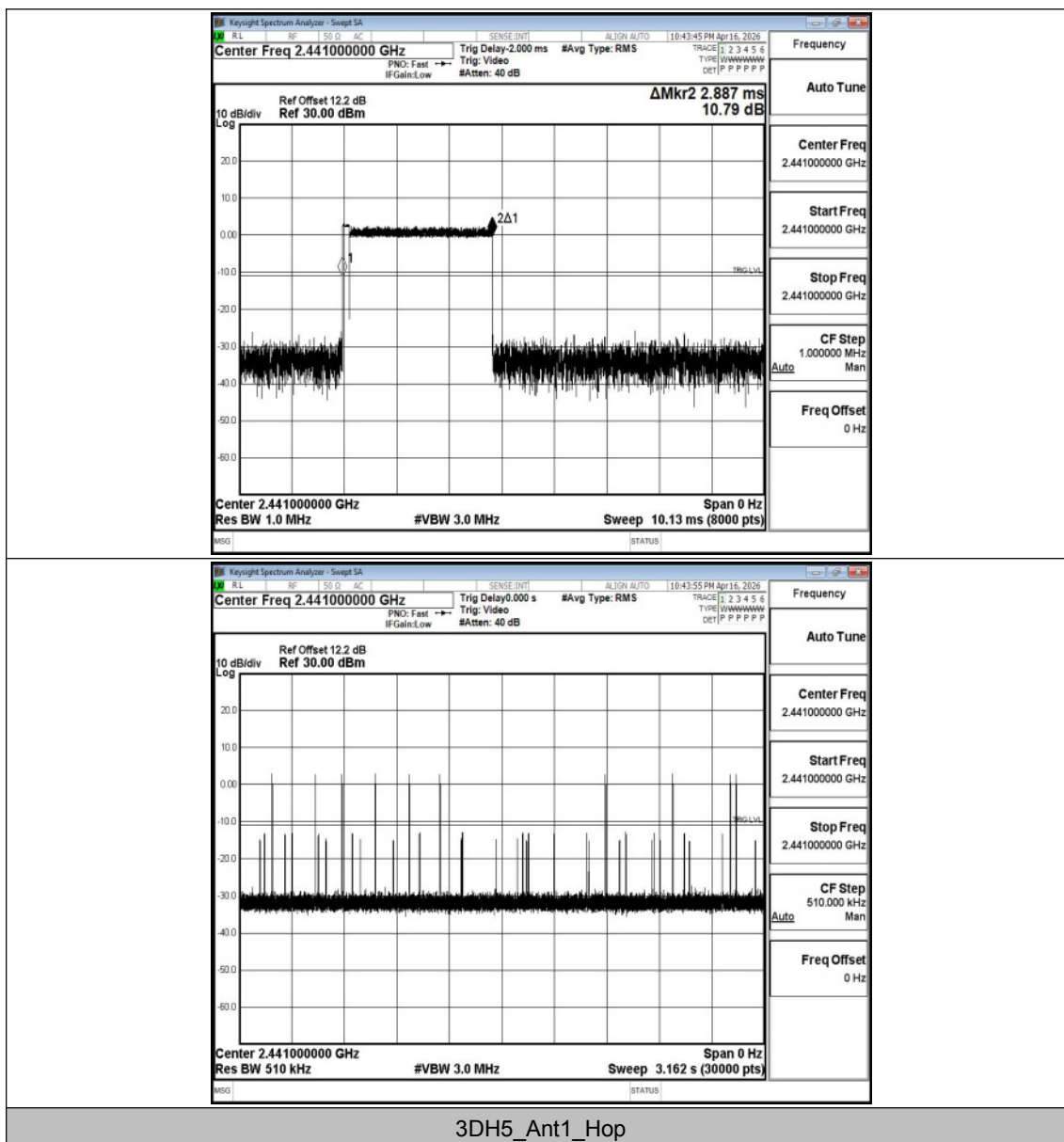
Test Result

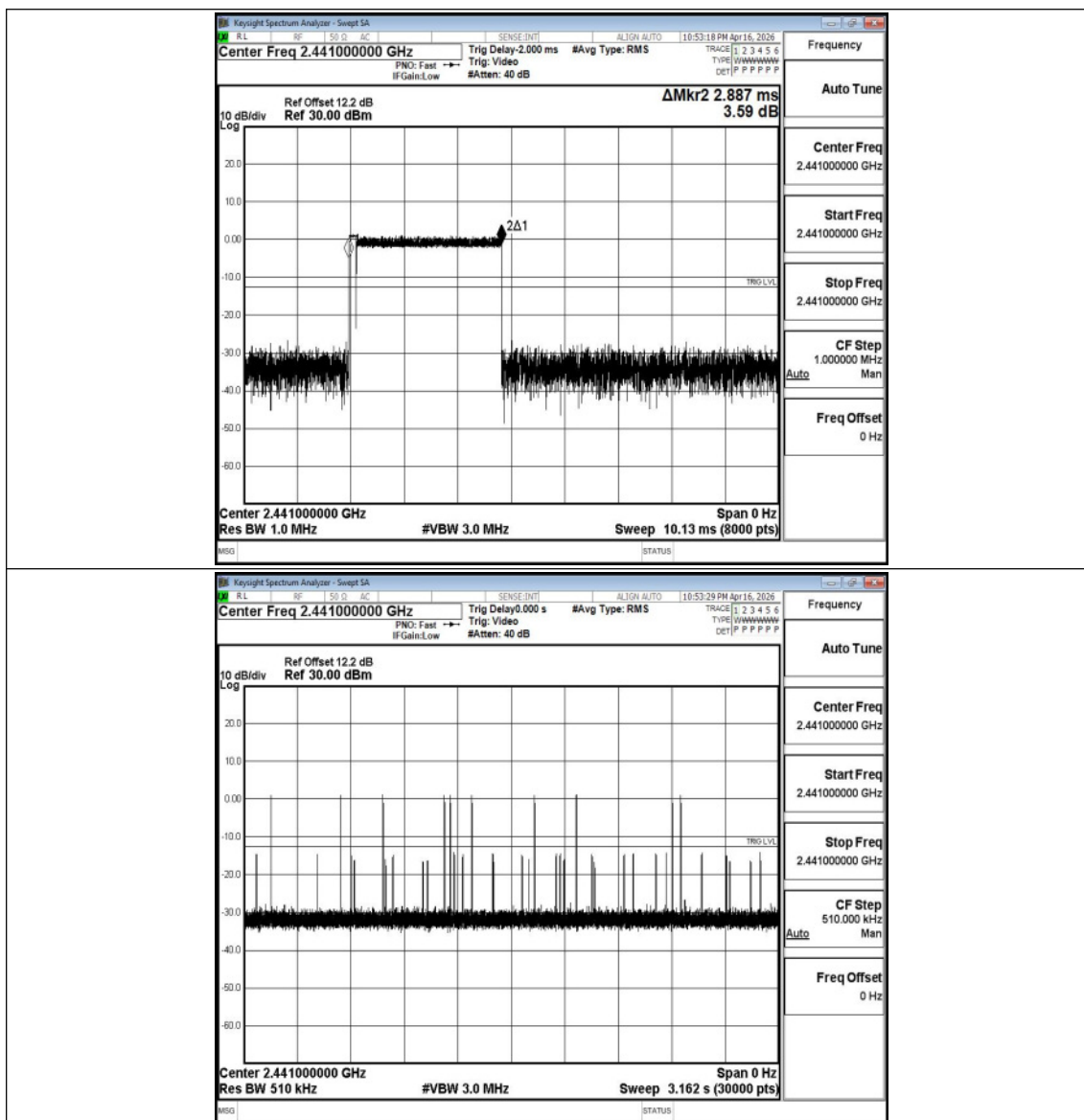
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.891	110	0.318	≤0.4	PASS
2DH5	Ant1	Hop	2.887	110	0.318	≤0.4	PASS
3DH5	Ant1	Hop	2.887	110	0.318	≤0.4	PASS

Test Graphs



2DH5_Ant1_Hop



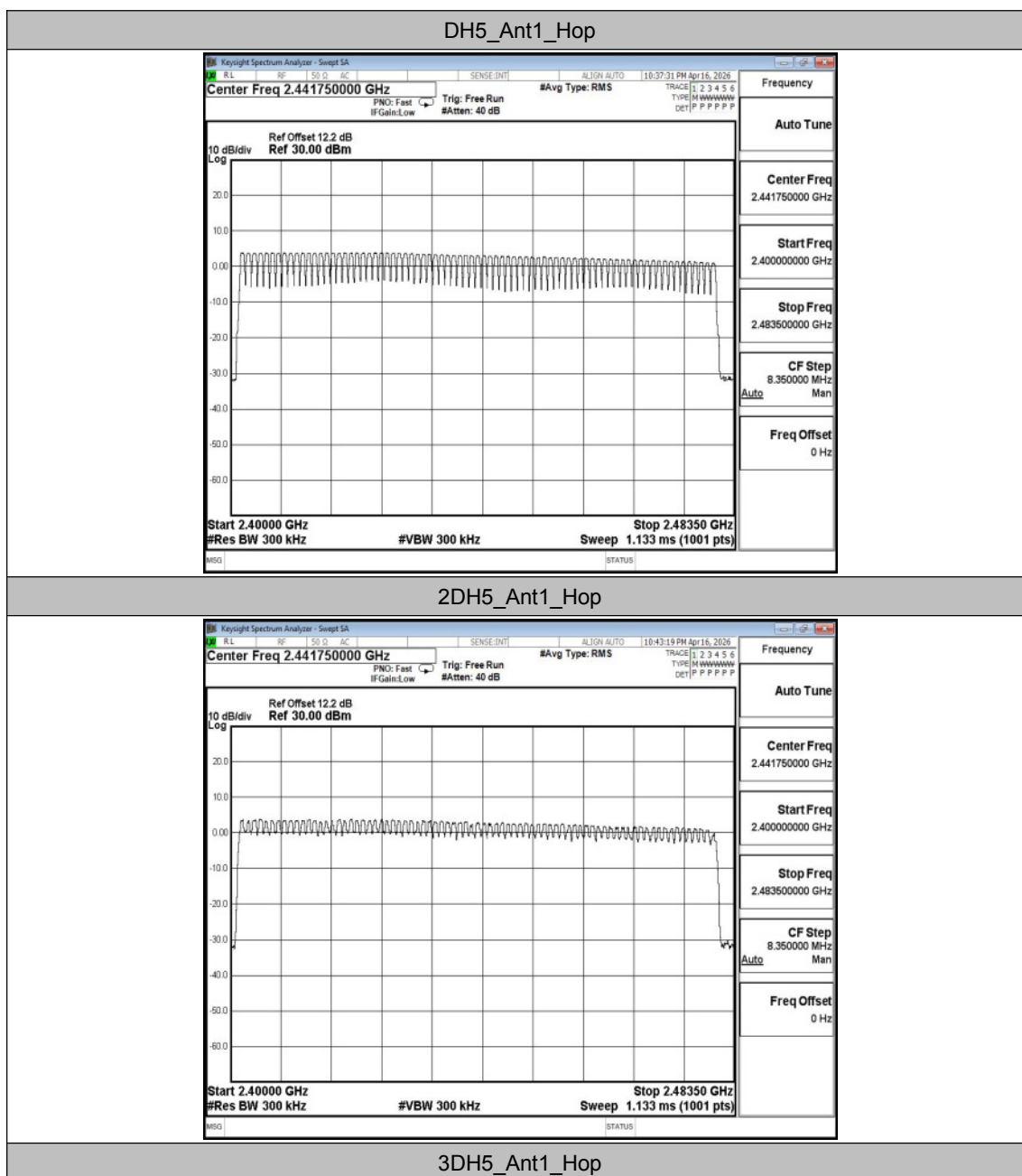


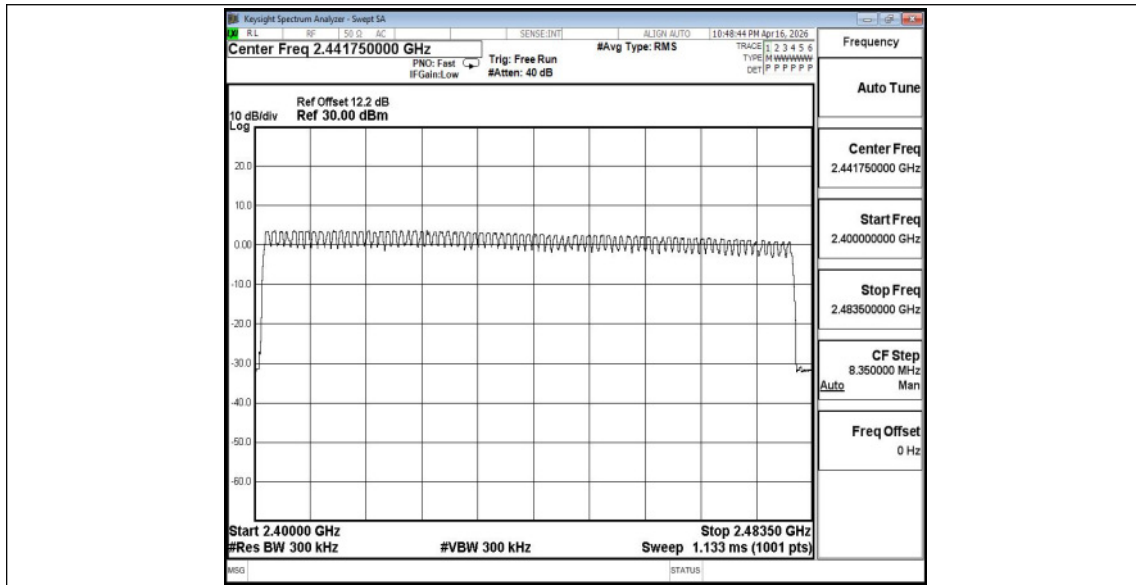
A.5 Number of hopping channels

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





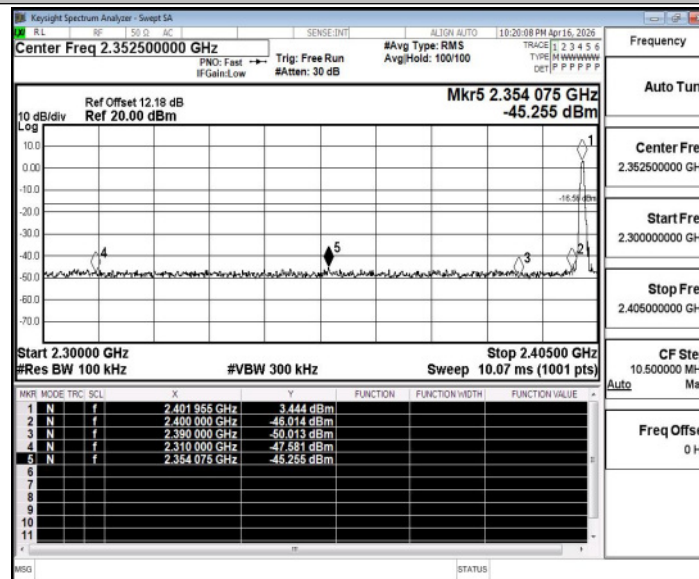
A.6 Band edge measurements

Test Result

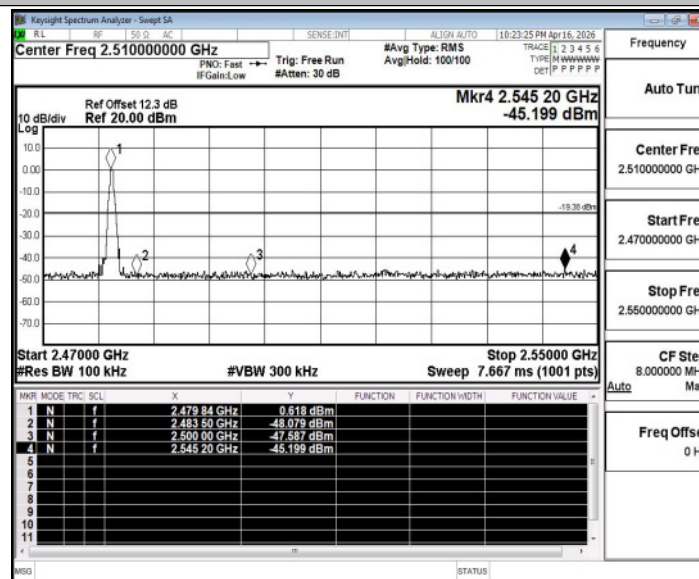
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.44	-45.26	≤ -16.56	PASS
		High	2480	0.62	-45.2	≤ -19.38	PASS
		Low	Hop_2402	2.39	-45.41	≤ -17.61	PASS
		High	Hop_2480	1.19	-44.36	≤ -18.81	PASS
2DH5	Ant1	Low	2402	3.30	-44.66	≤ -16.7	PASS
		High	2480	-0.63	-44.66	≤ -20.63	PASS
		Low	Hop_2402	-6.35	-45.37	≤ -26.35	PASS
		High	Hop_2480	-3.72	-43.83	≤ -23.72	PASS
3DH5	Ant1	Low	2402	2.26	-45.33	≤ -17.74	PASS
		High	2480	0.55	-45	≤ -19.46	PASS
		Low	Hop_2402	0.52	-44.92	≤ -19.48	PASS
		High	Hop_2480	-3.91	-44.68	≤ -23.91	PASS

Test Graphs

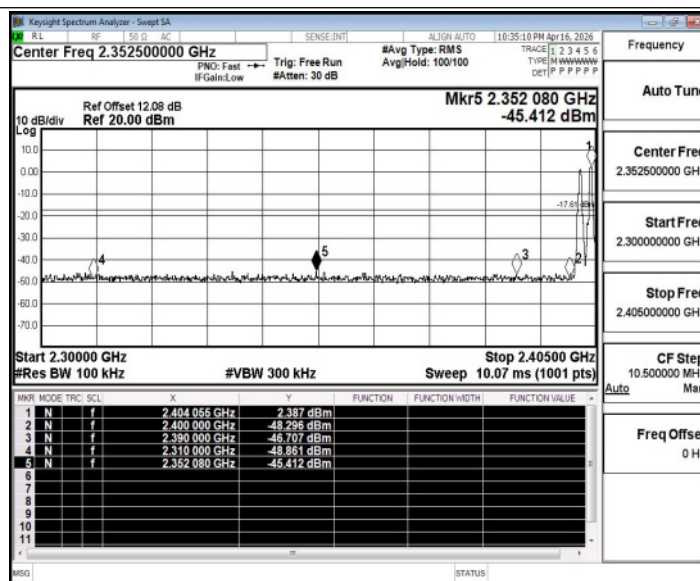
DH5_Ant1_Low_2402



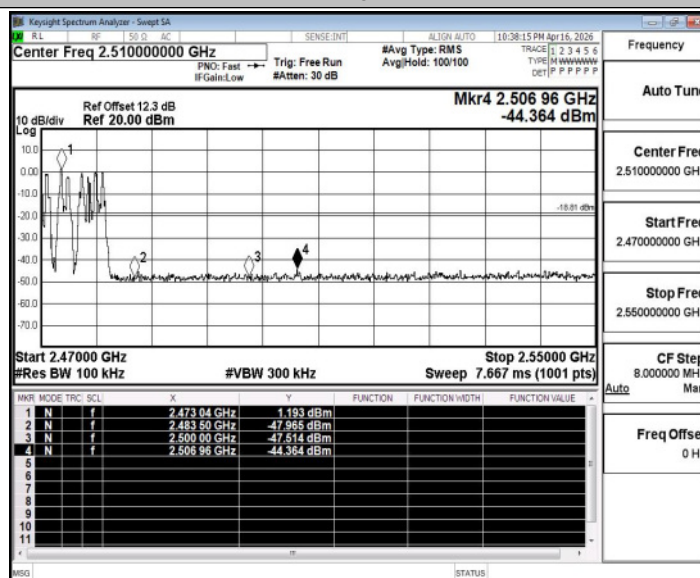
DH5_Ant1_High_2480



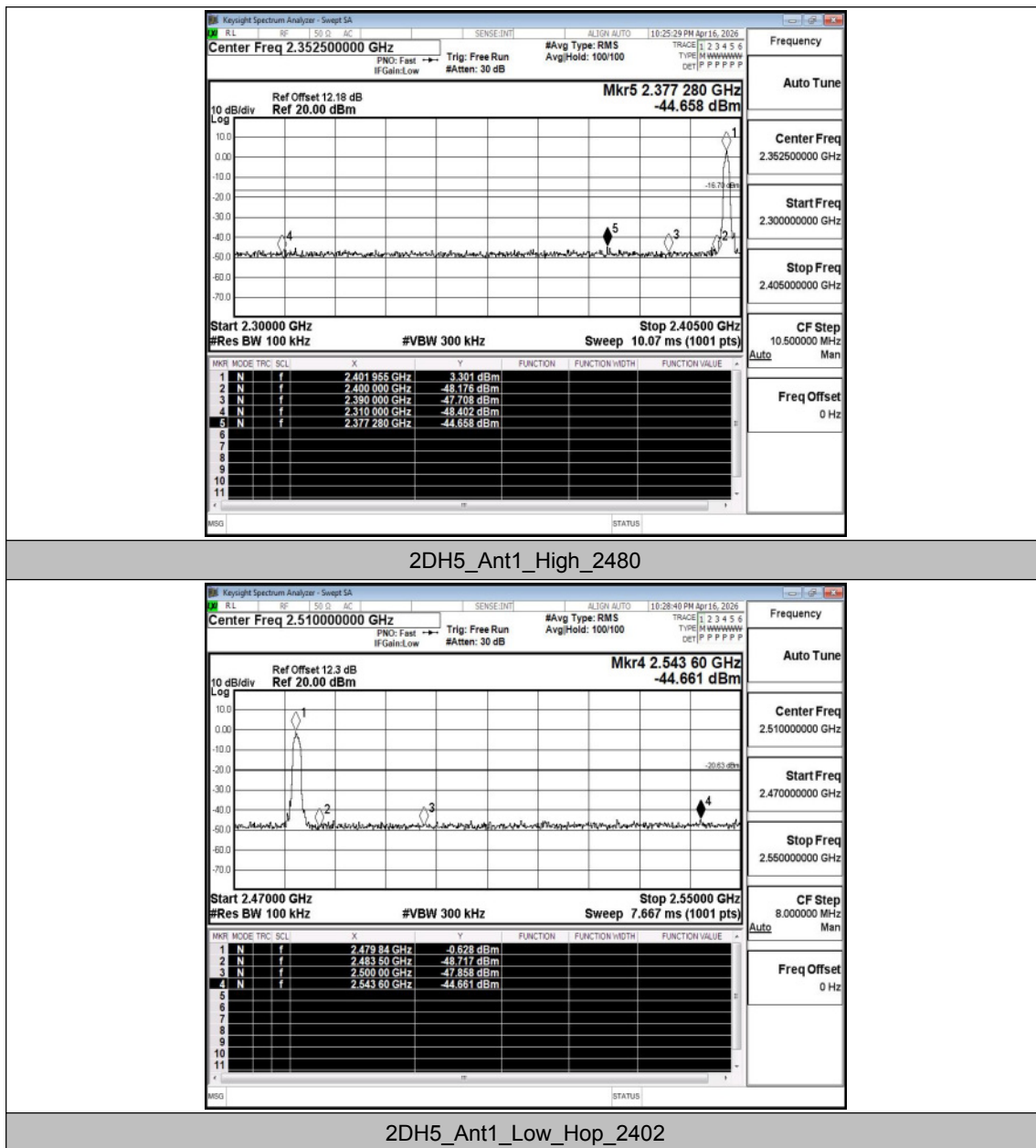
DH5_Ant1_Low_Hop_2402

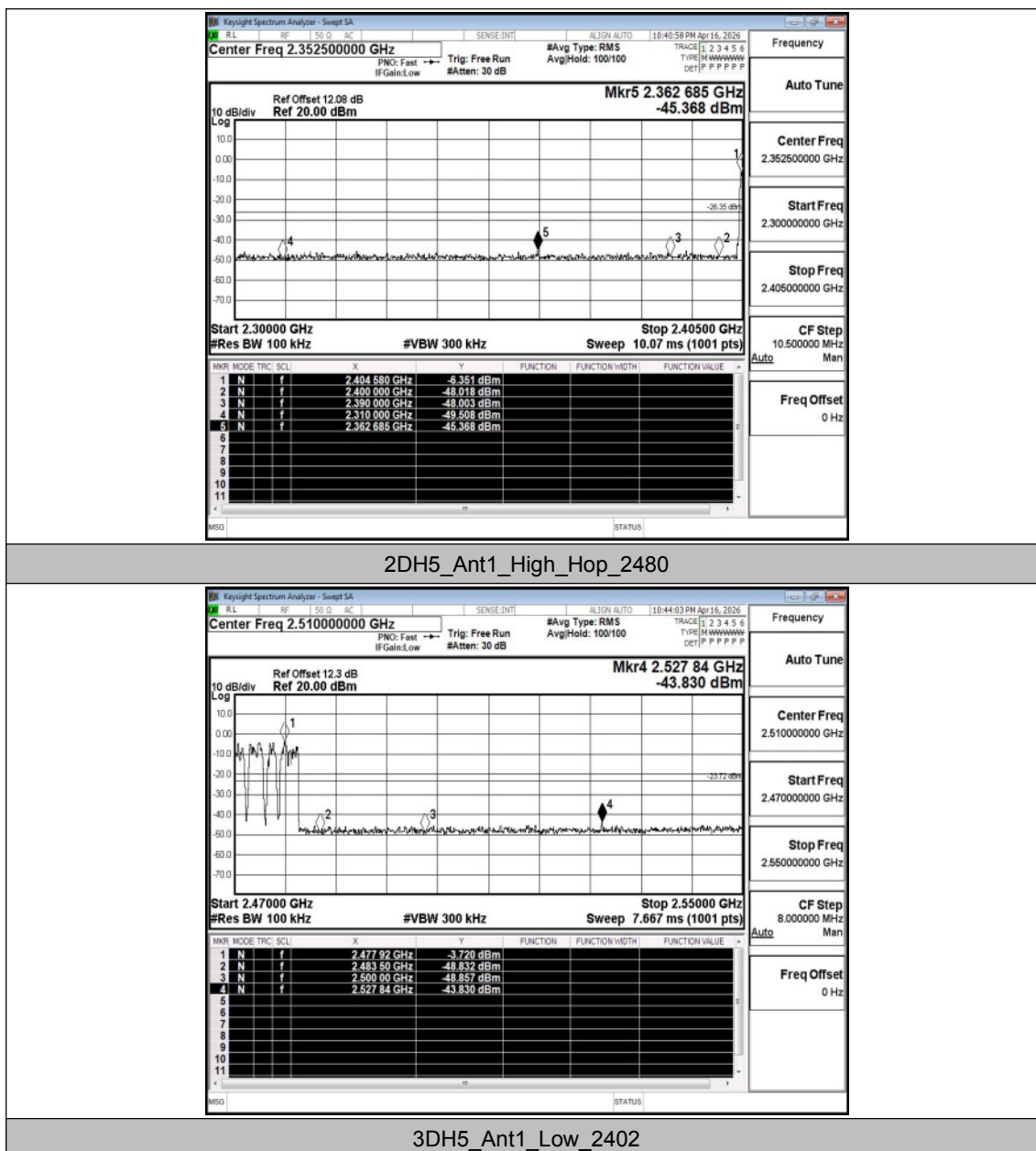


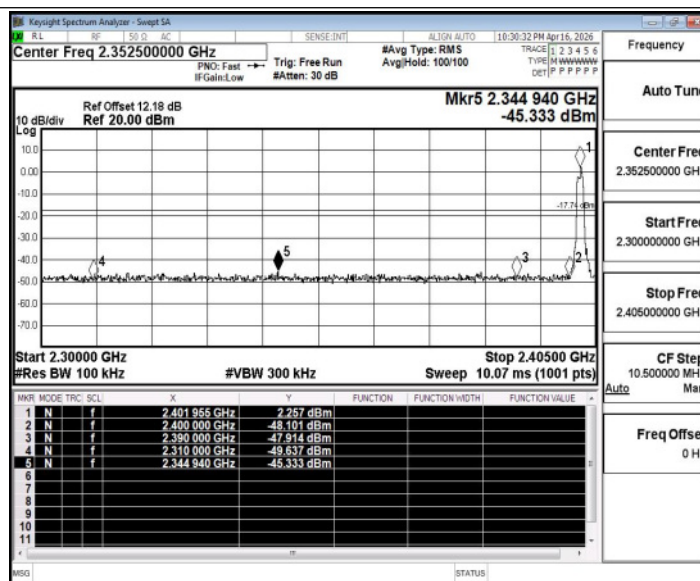
DH5_Ant1_High_Hop_2480



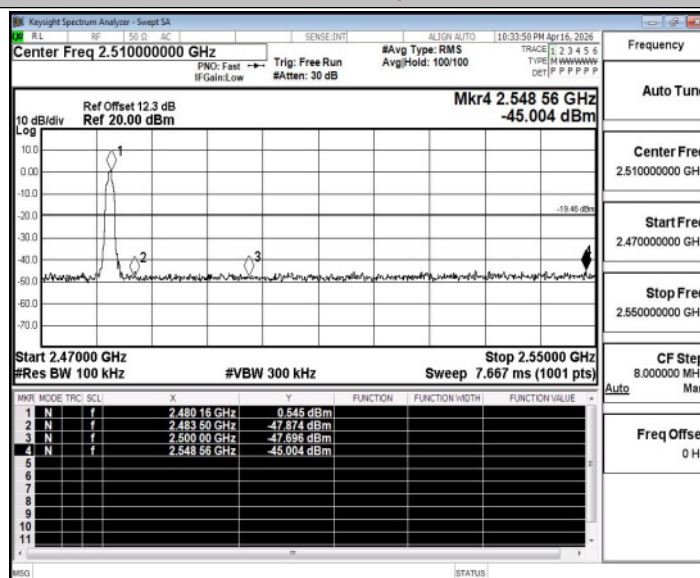
2DH5_Ant1_Low_2402



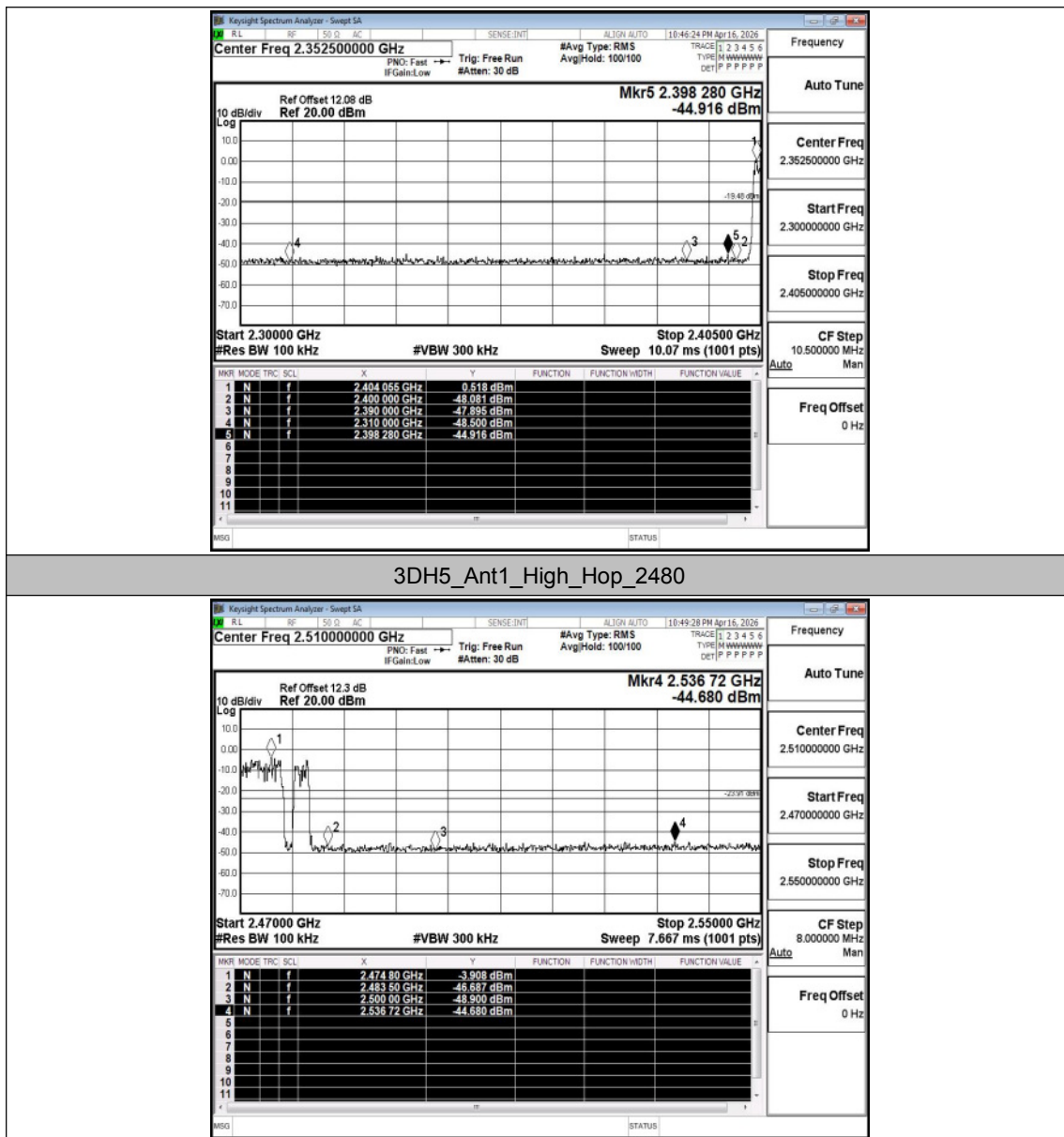




3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

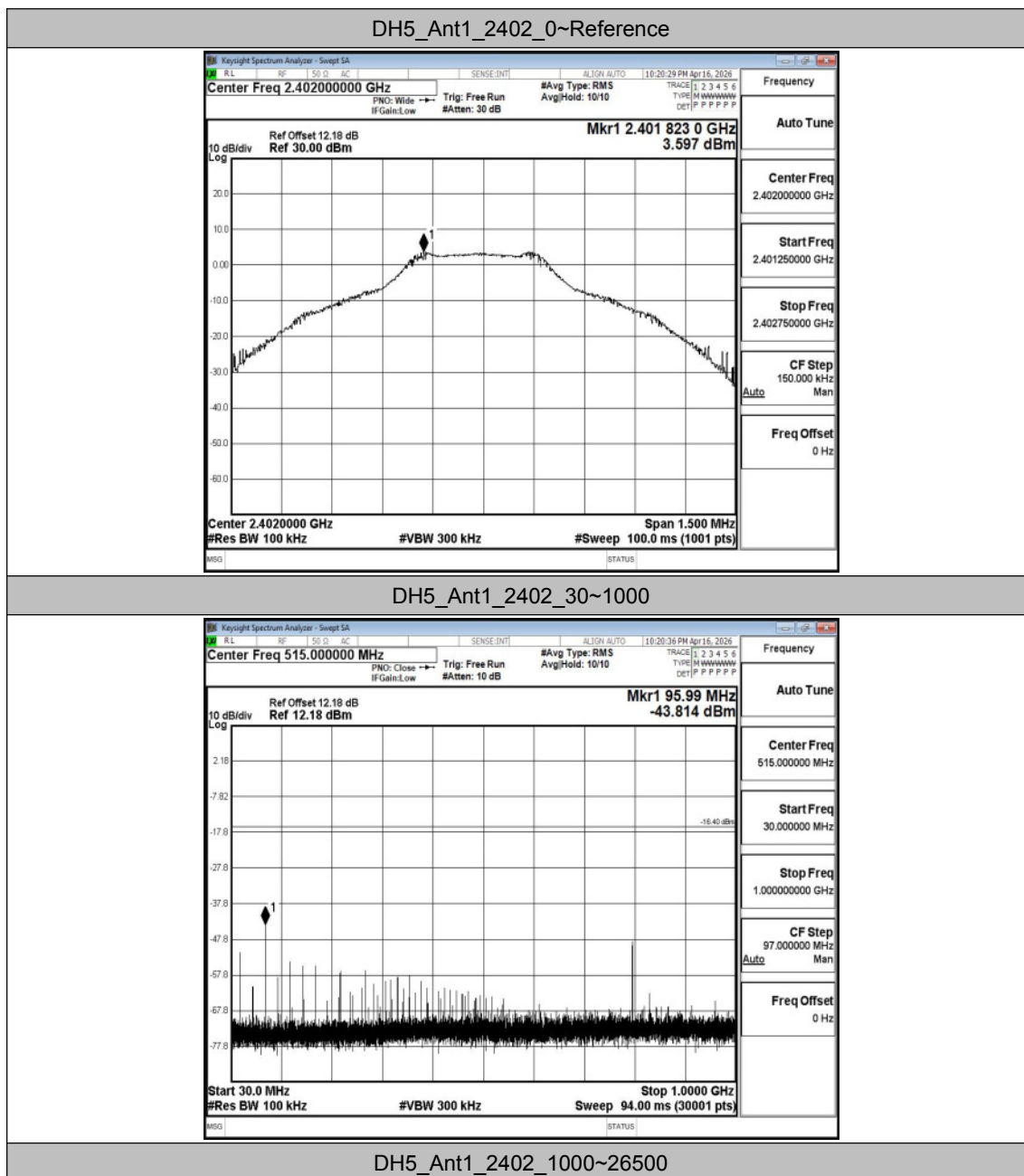


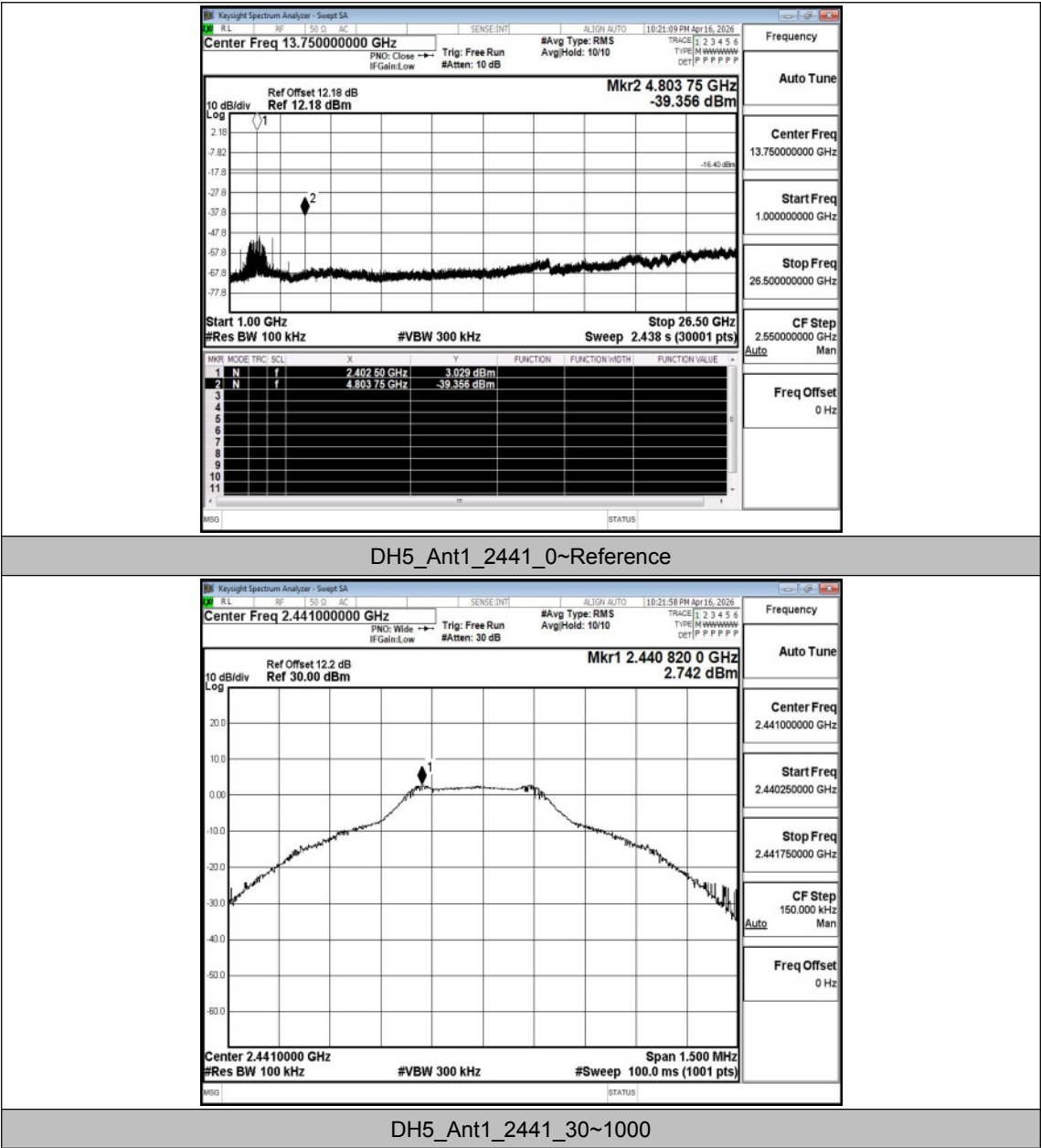
A.7 Conducted Spurious Emission

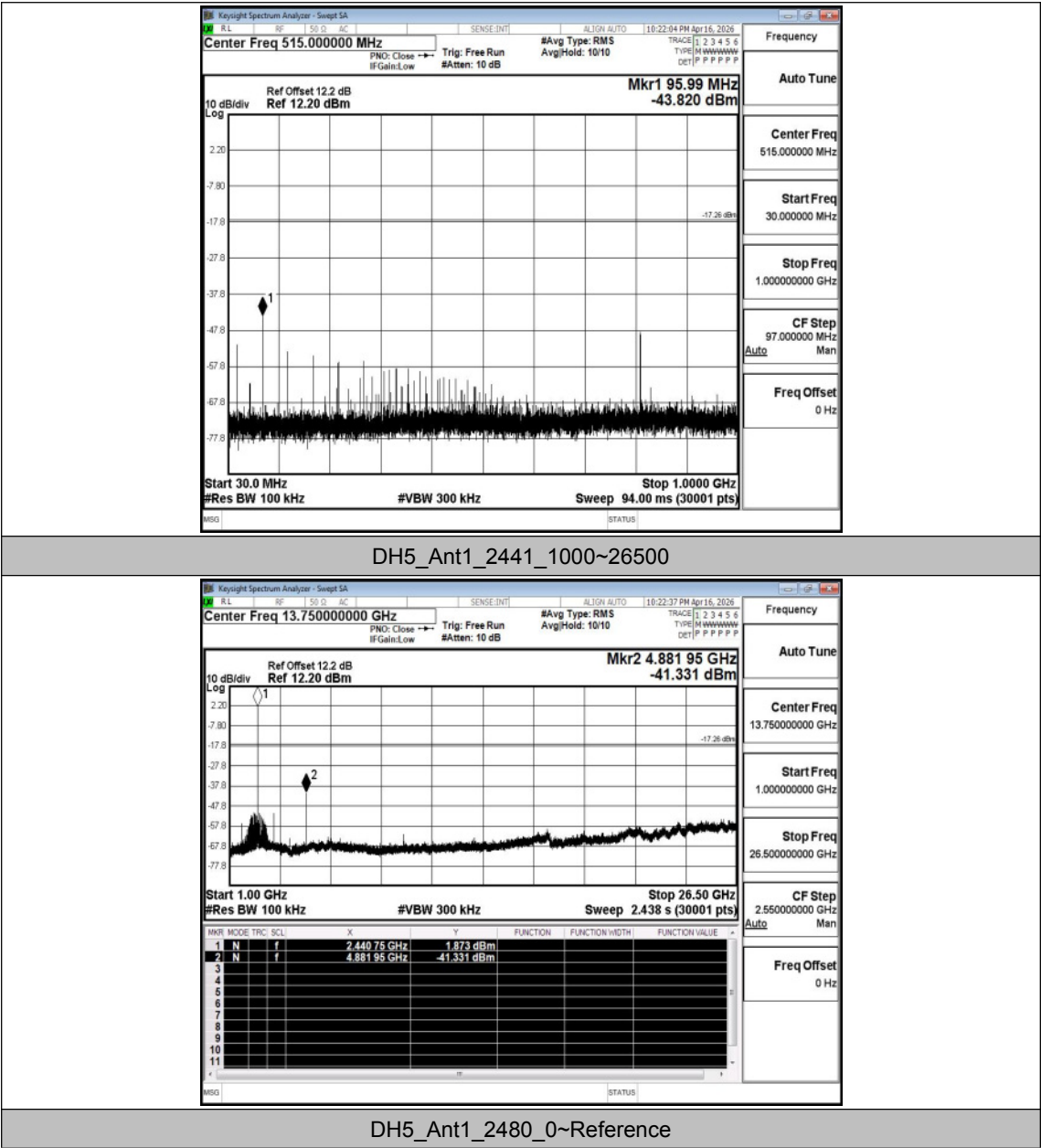
Test Result

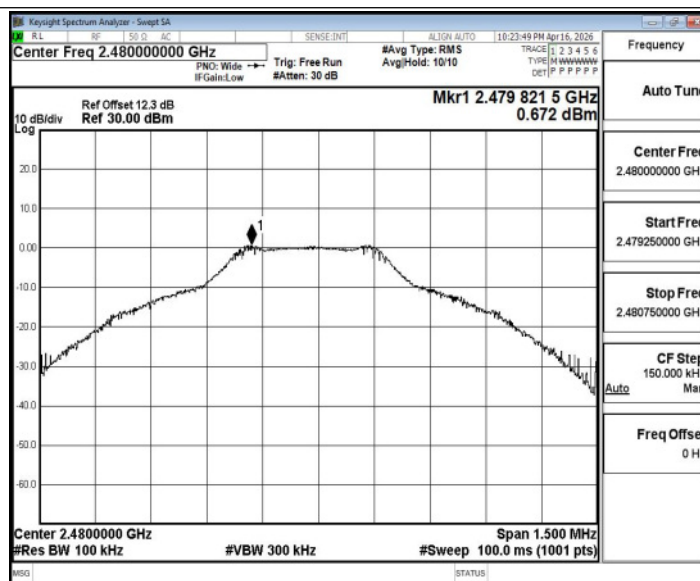
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	3.60	3.60	---	PASS
			30~1000	3.60	-43.81	≤-16.4	PASS
			1000~26500	3.60	-39.36	≤-16.4	PASS
		2441	Reference	2.74	2.74	---	PASS
			30~1000	2.74	-43.82	≤-17.26	PASS
			1000~26500	2.74	-41.33	≤-17.26	PASS
		2480	Reference	0.67	0.67	---	PASS
			30~1000	0.67	-50.81	≤-19.33	PASS
			1000~26500	0.67	-45.2	≤-19.33	PASS
2DH5	Ant1	2402	Reference	3.29	3.29	---	PASS
			30~1000	3.29	-52.66	≤-16.71	PASS
			1000~26500	3.29	-41.48	≤-16.71	PASS
		2441	Reference	2.56	2.56	---	PASS
			30~1000	2.56	-51.85	≤-17.44	PASS
			1000~26500	2.56	-45.86	≤-17.44	PASS
		2480	Reference	0.55	0.55	---	PASS
			30~1000	0.55	-51.8	≤-19.45	PASS
			1000~26500	0.55	-43.91	≤-19.45	PASS
3DH5	Ant1	2402	Reference	3.19	3.19	---	PASS
			30~1000	3.19	-52.92	≤-16.81	PASS
			1000~26500	3.19	-48.22	≤-16.81	PASS
		2441	Reference	2.47	2.47	---	PASS
			30~1000	2.47	-43.93	≤-17.53	PASS
			1000~26500	2.47	-47.93	≤-17.53	PASS
		2480	Reference	0.57	0.57	---	PASS
			30~1000	0.57	-43.74	≤-19.43	PASS
			1000~26500	0.57	-43.96	≤-19.43	PASS

Test Graphs

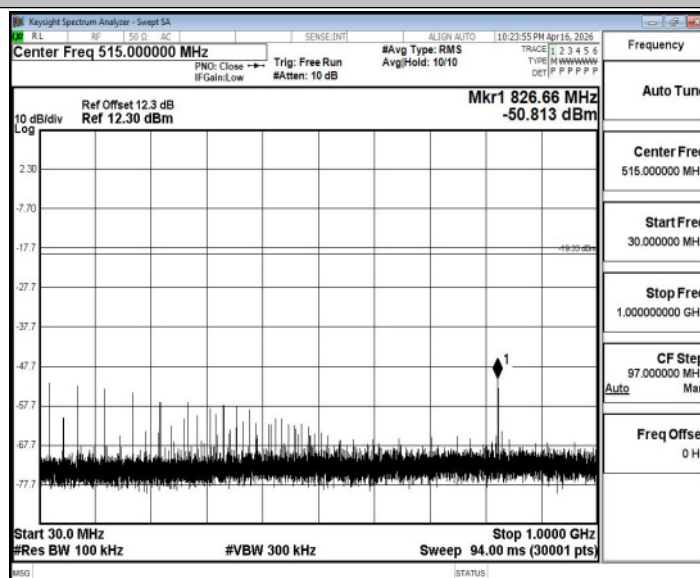




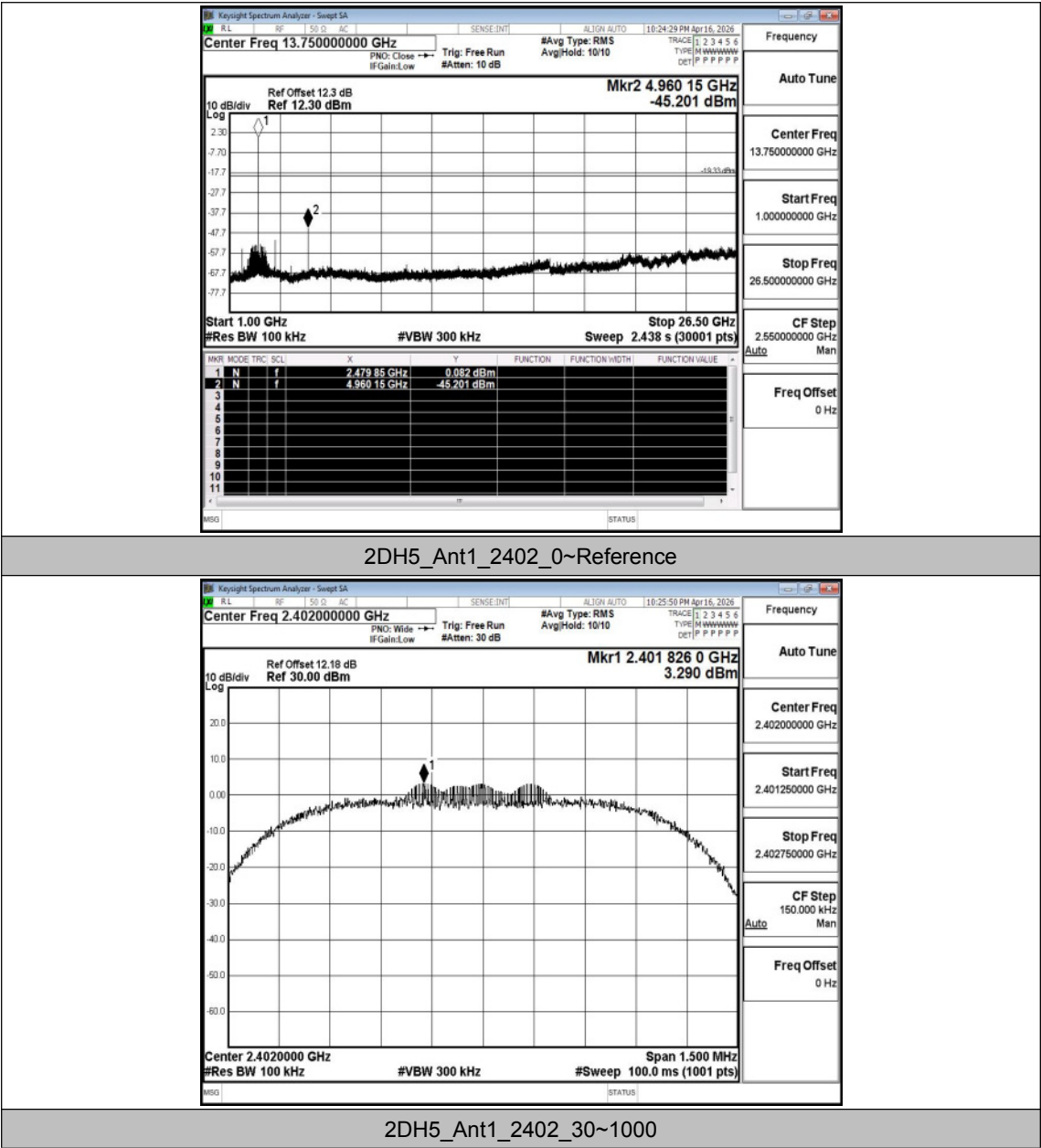


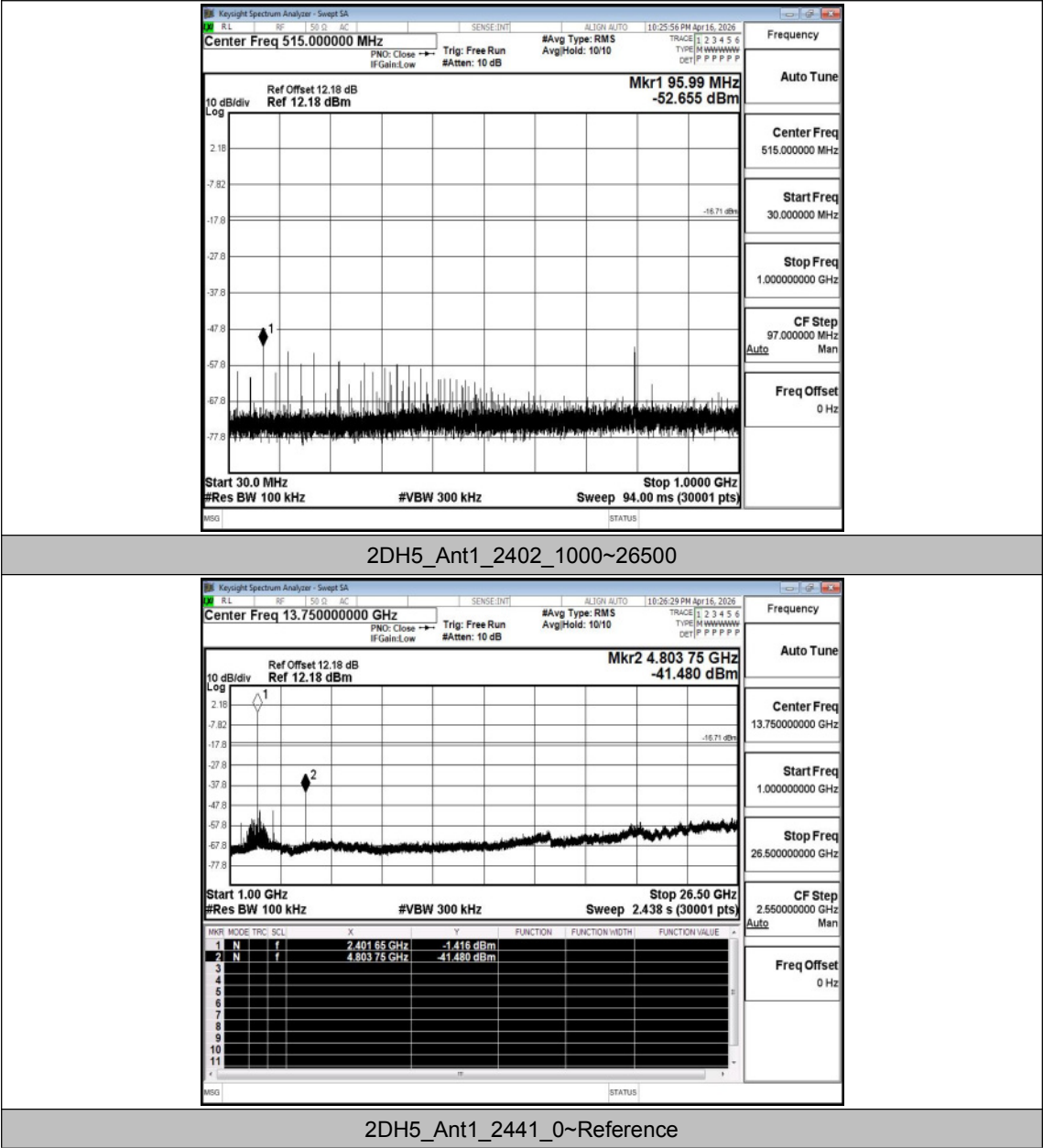


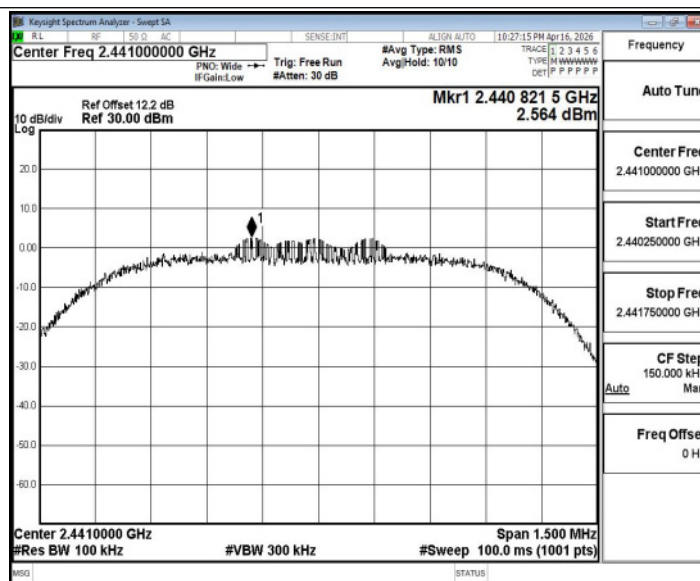
DH5_Ant1_2480_30~1000



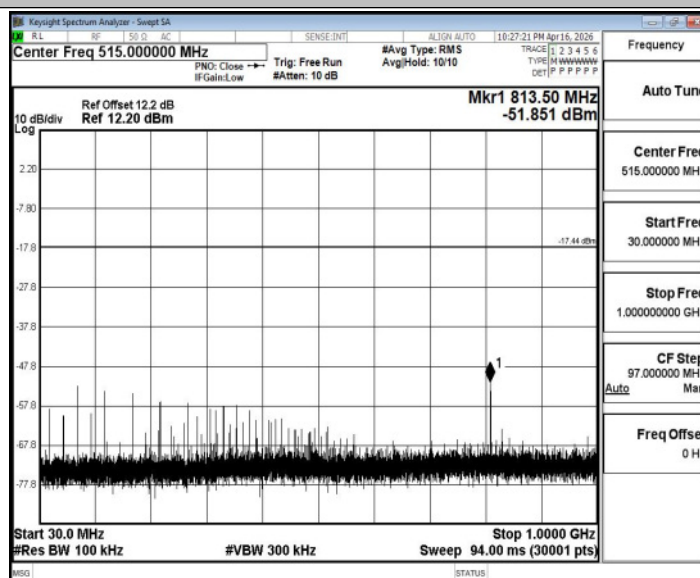
DH5_Ant1_2480_1000~26500



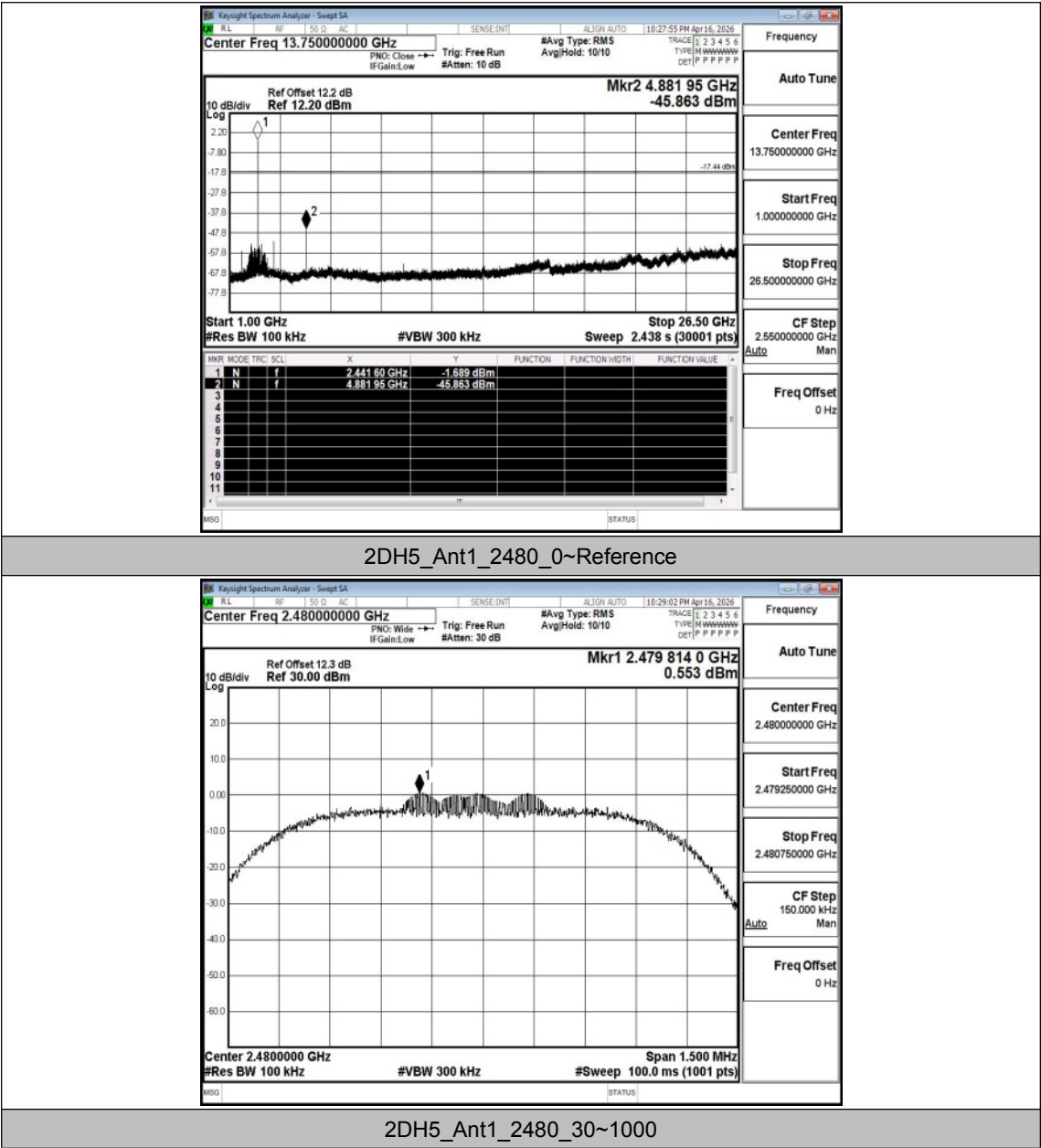


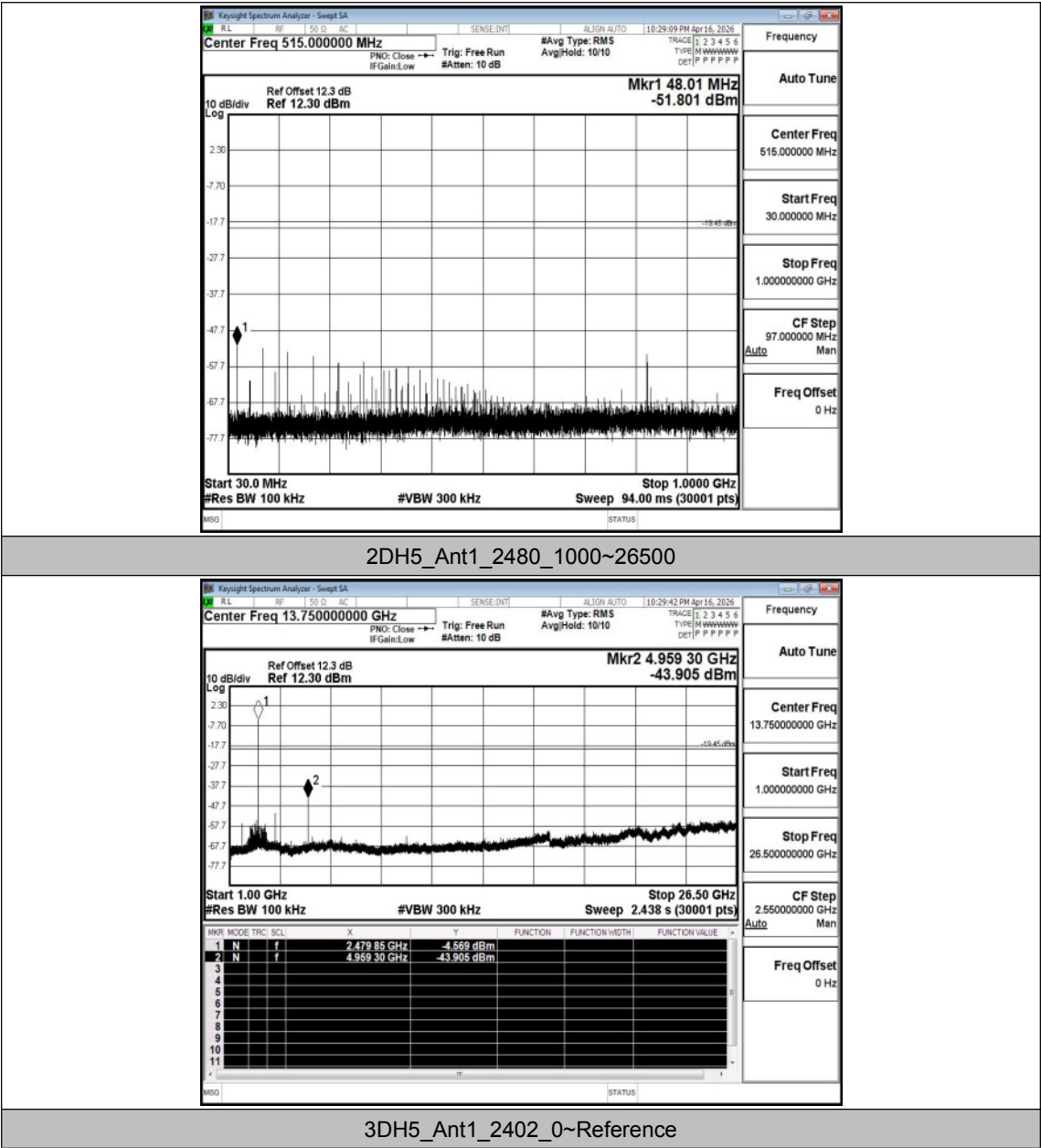


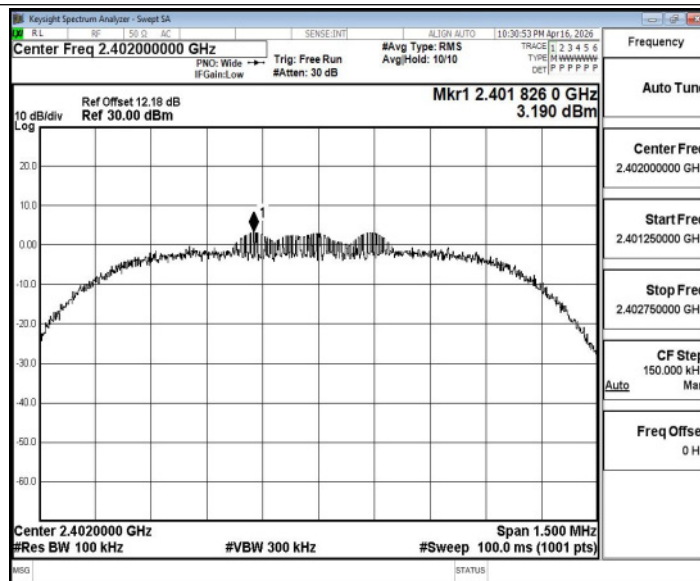
2DH5_Ant1_2441_30~1000



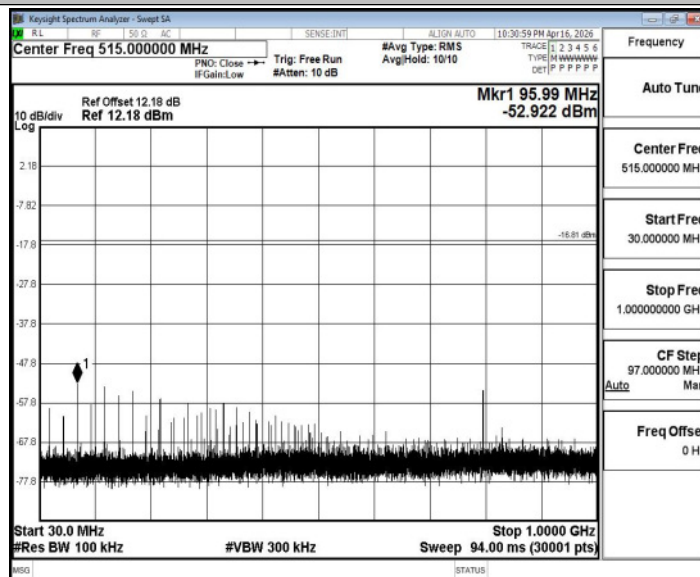
2DH5_Ant1_2441_1000~26500







3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500