

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: 40W High Power Voice Amplifier

Test Model: WA3 Pro

Environmental Conditions

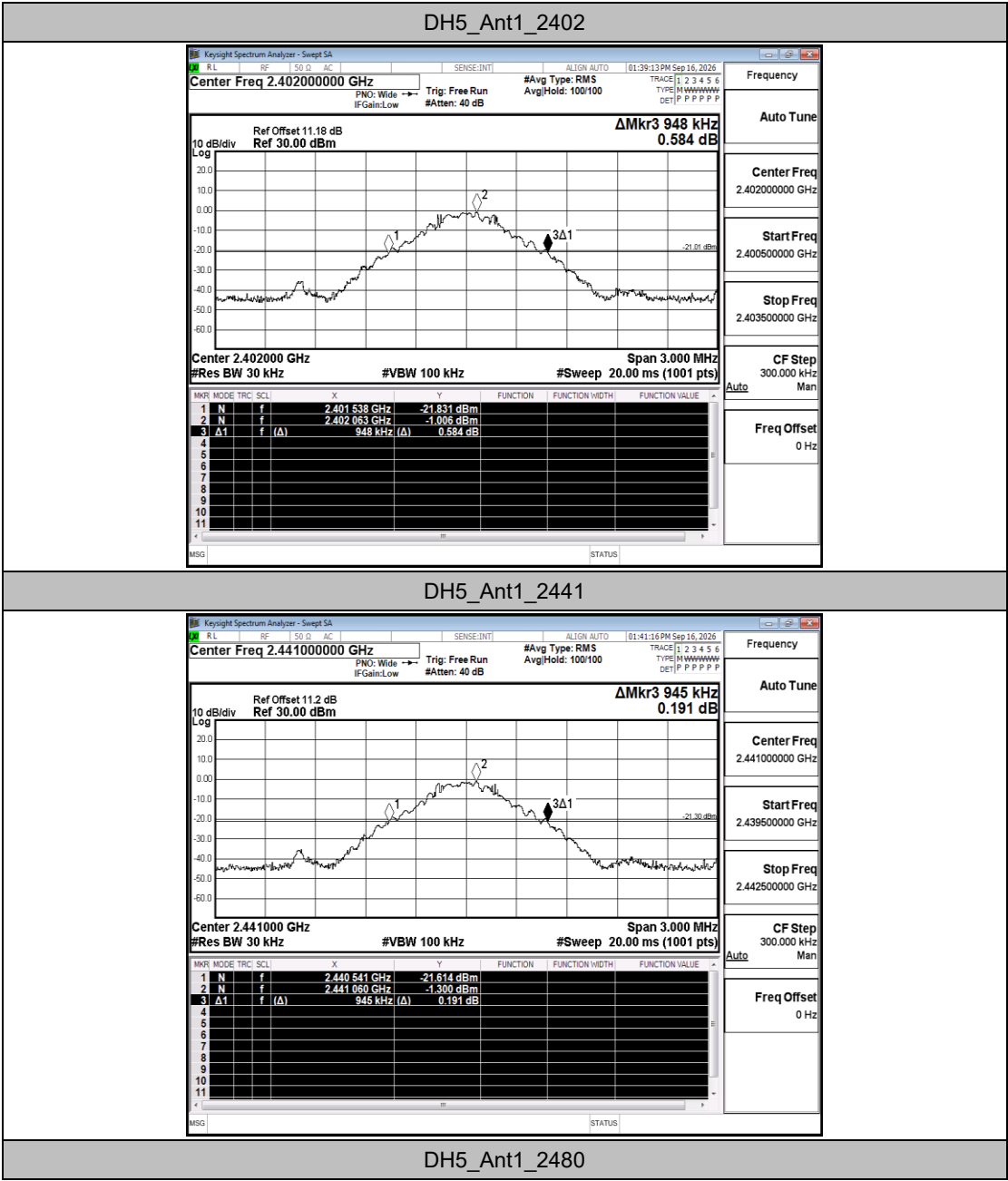
Temperature:	23.5°C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

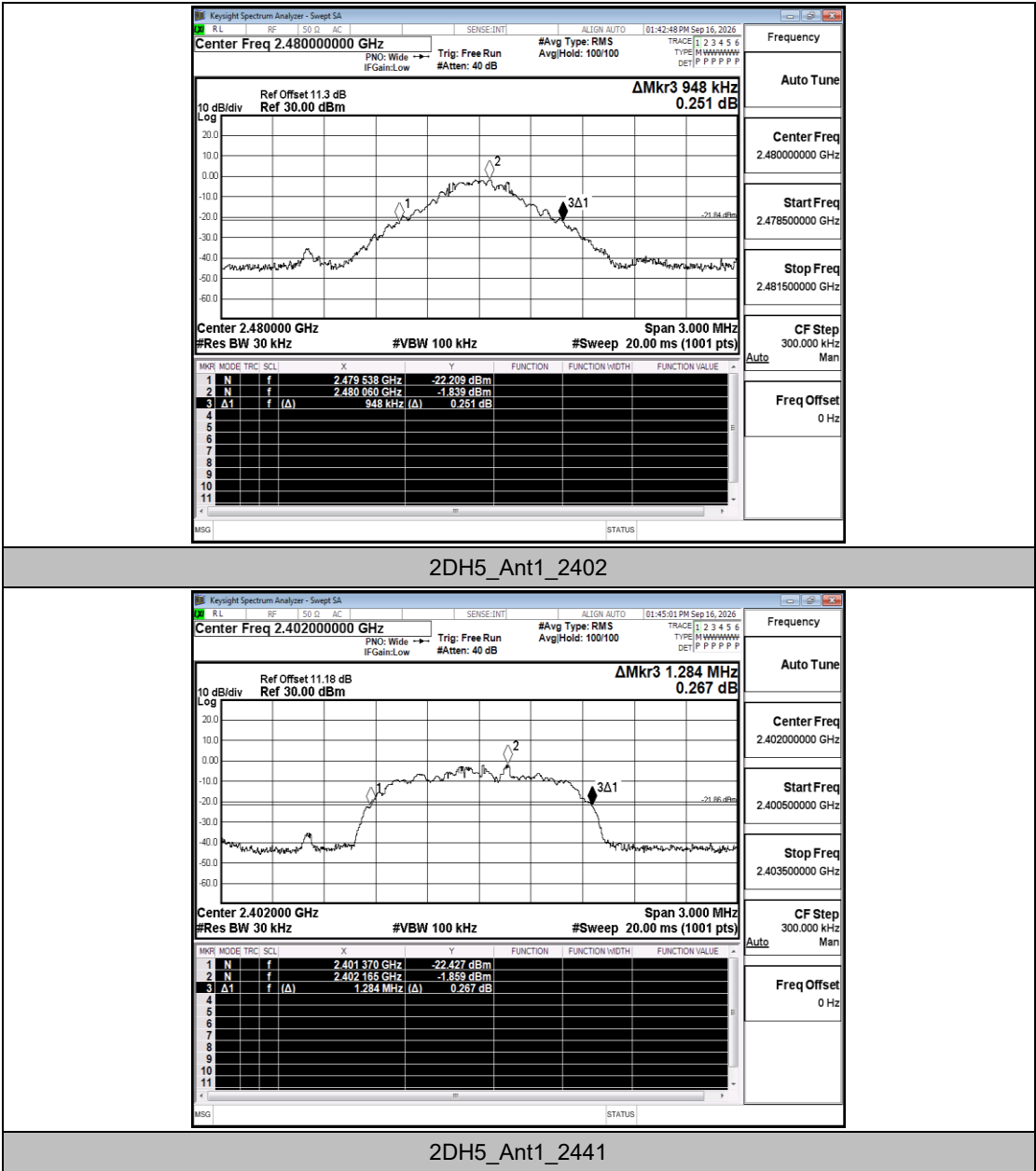
A.1 20dB Emission Bandwidth

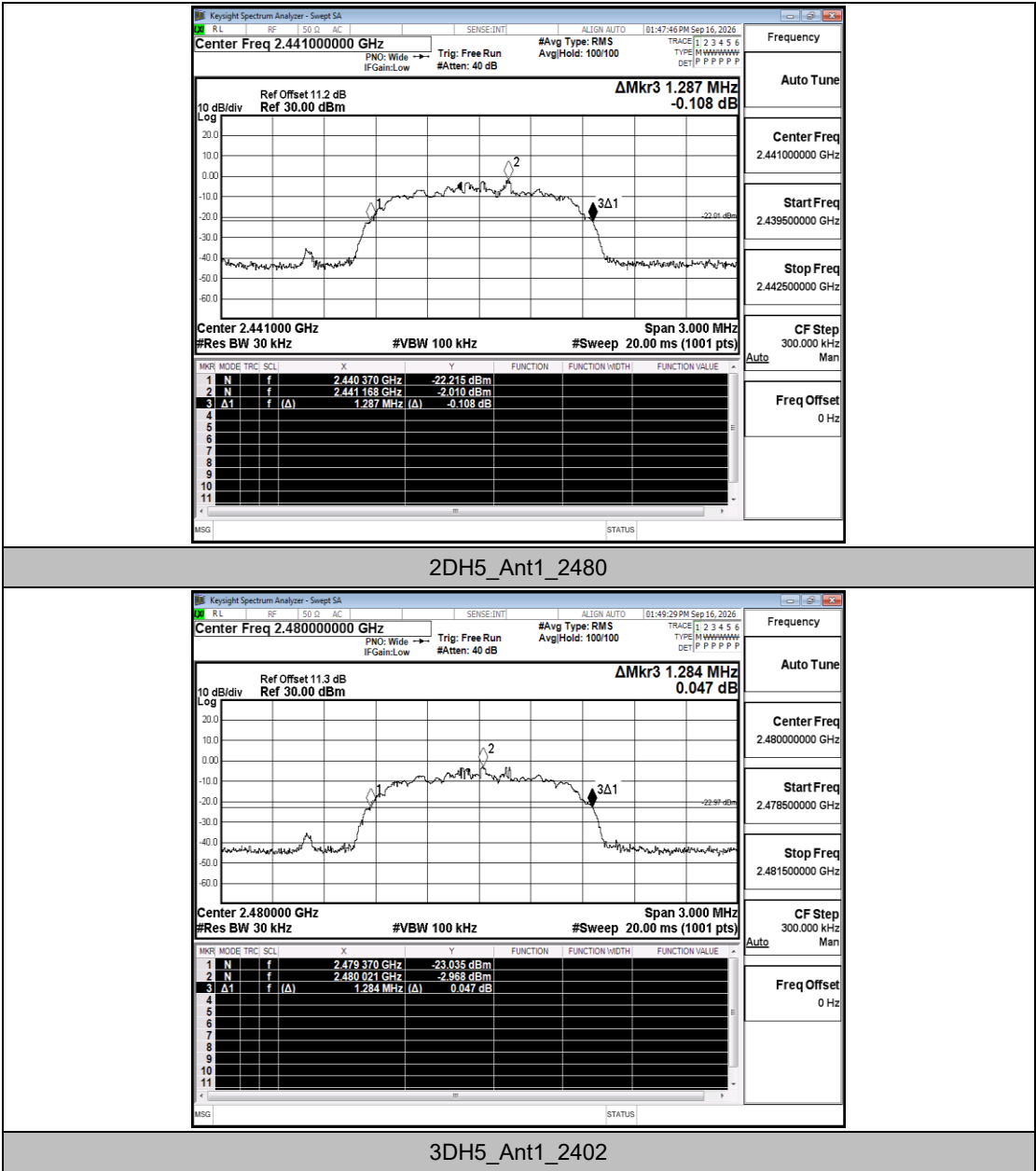
Test Result

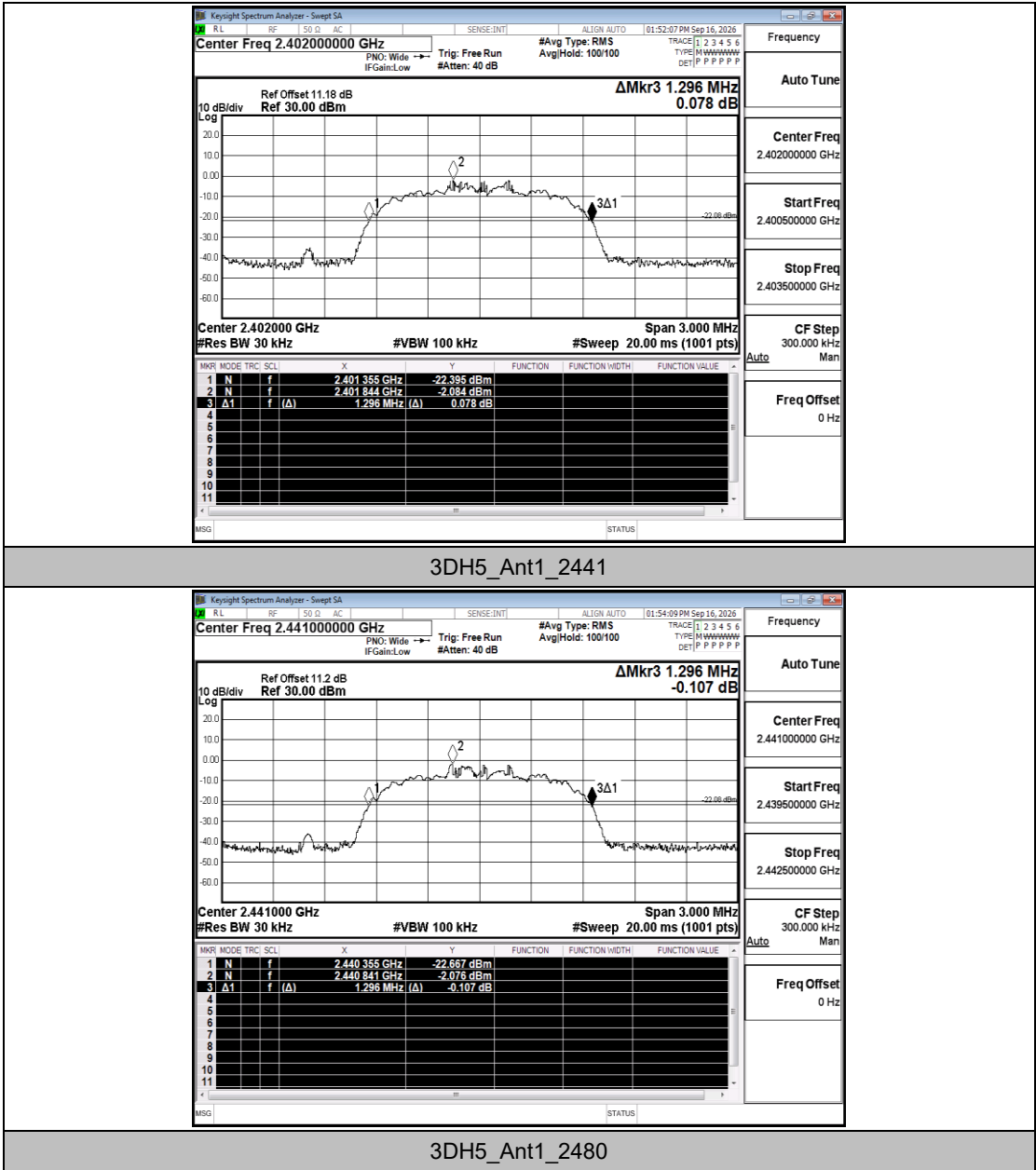
TestMode	Antenna	Freq (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.948	2401.538	2402.486	---	---
		2441	0.945	2440.541	2441.486	---	---
		2480	0.948	2479.538	2480.486	---	---
2DH5	Ant1	2402	1.284	2401.370	2402.654	---	---
		2441	1.287	2440.370	2441.657	---	---
		2480	1.284	2479.370	2480.654	---	---
3DH5	Ant1	2402	1.296	2401.355	2402.651	---	---
		2441	1.296	2440.355	2441.651	---	---
		2480	1.293	2479.355	2480.648	---	---

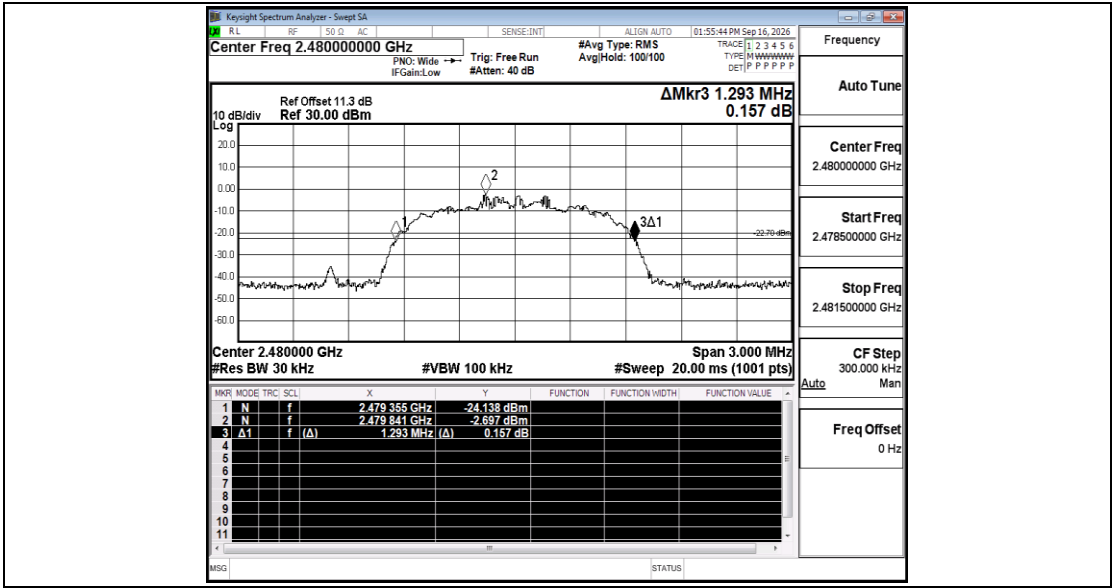
Test Graphs









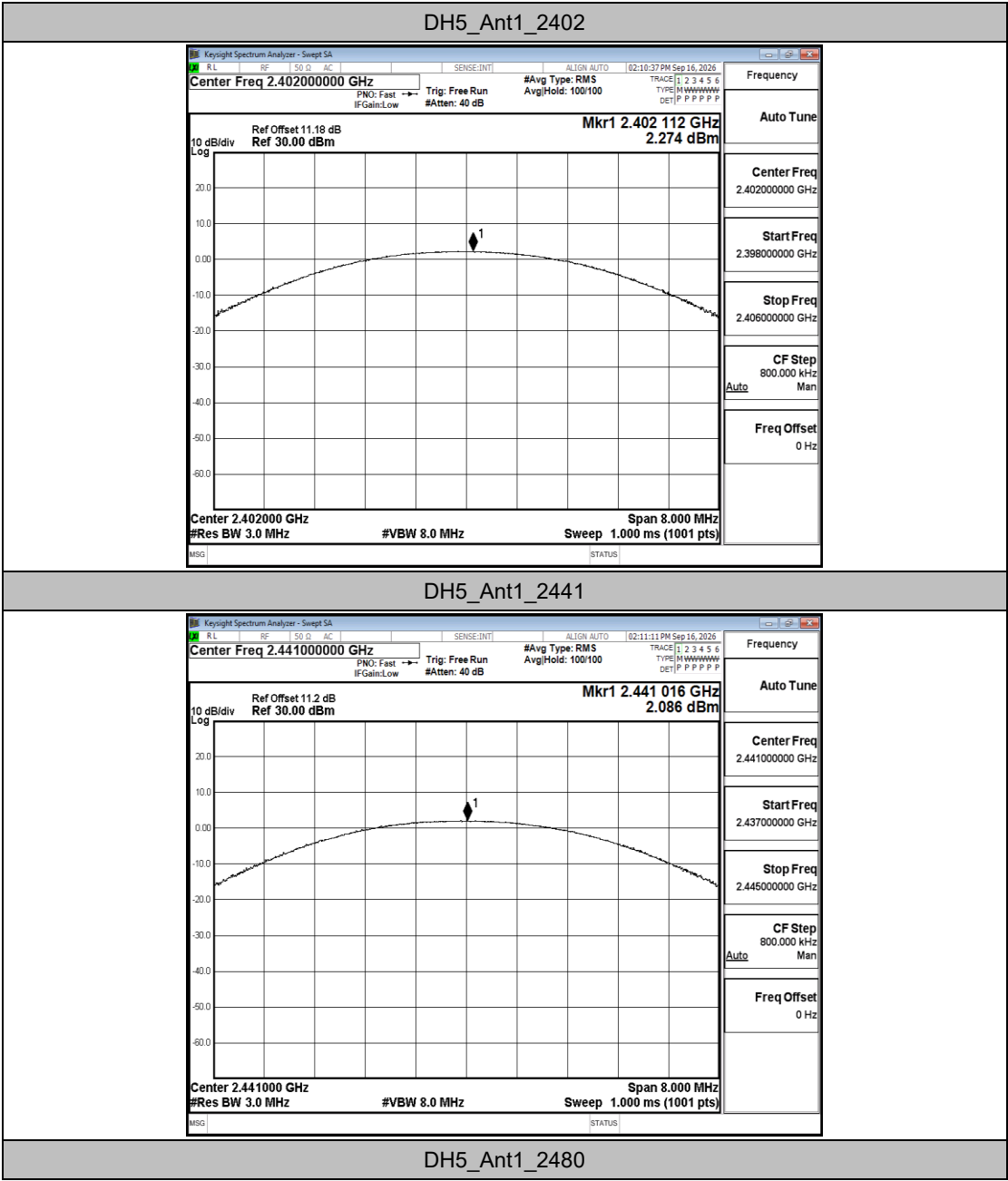


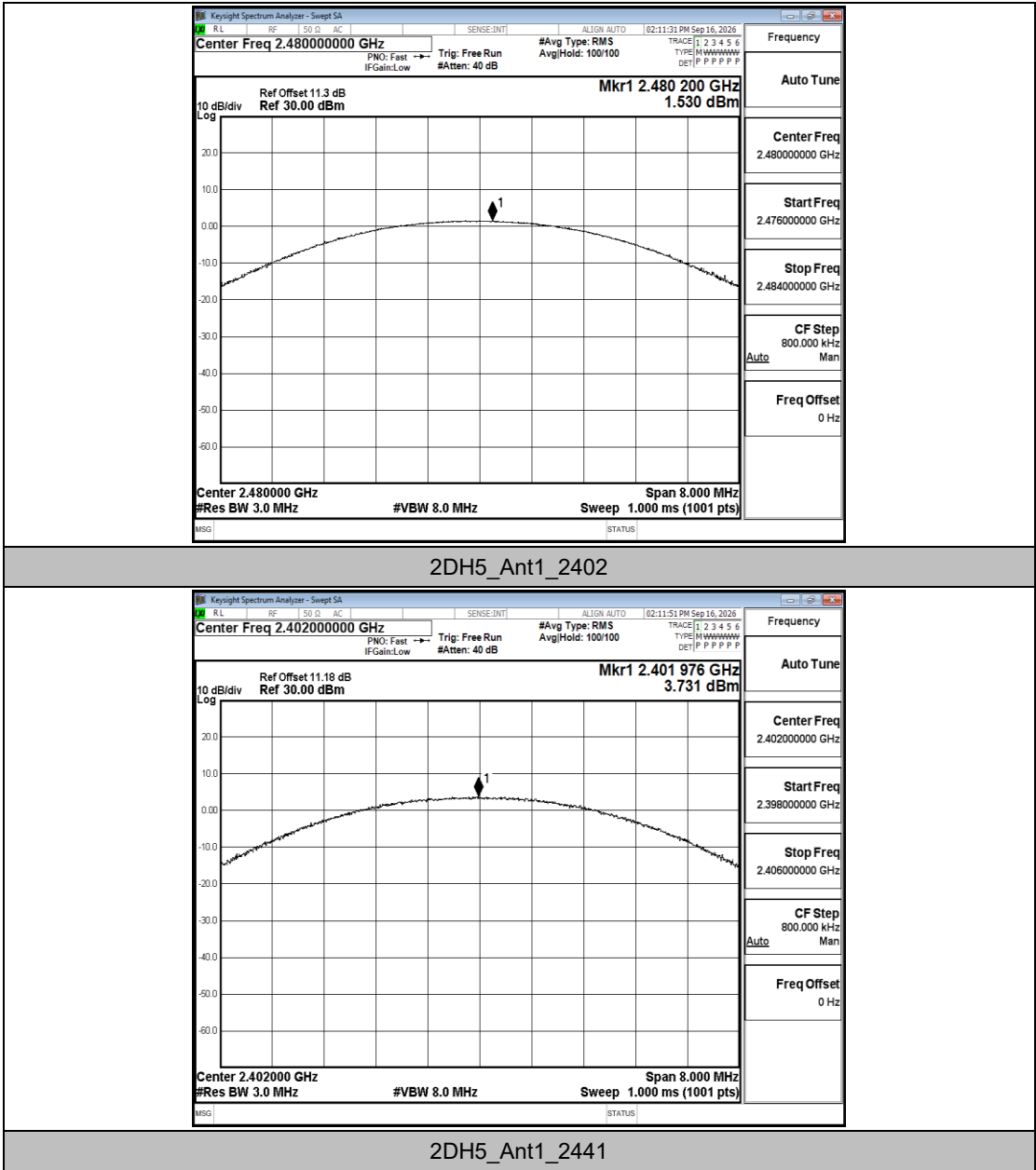
A.2 Maximum Peak conducted output power

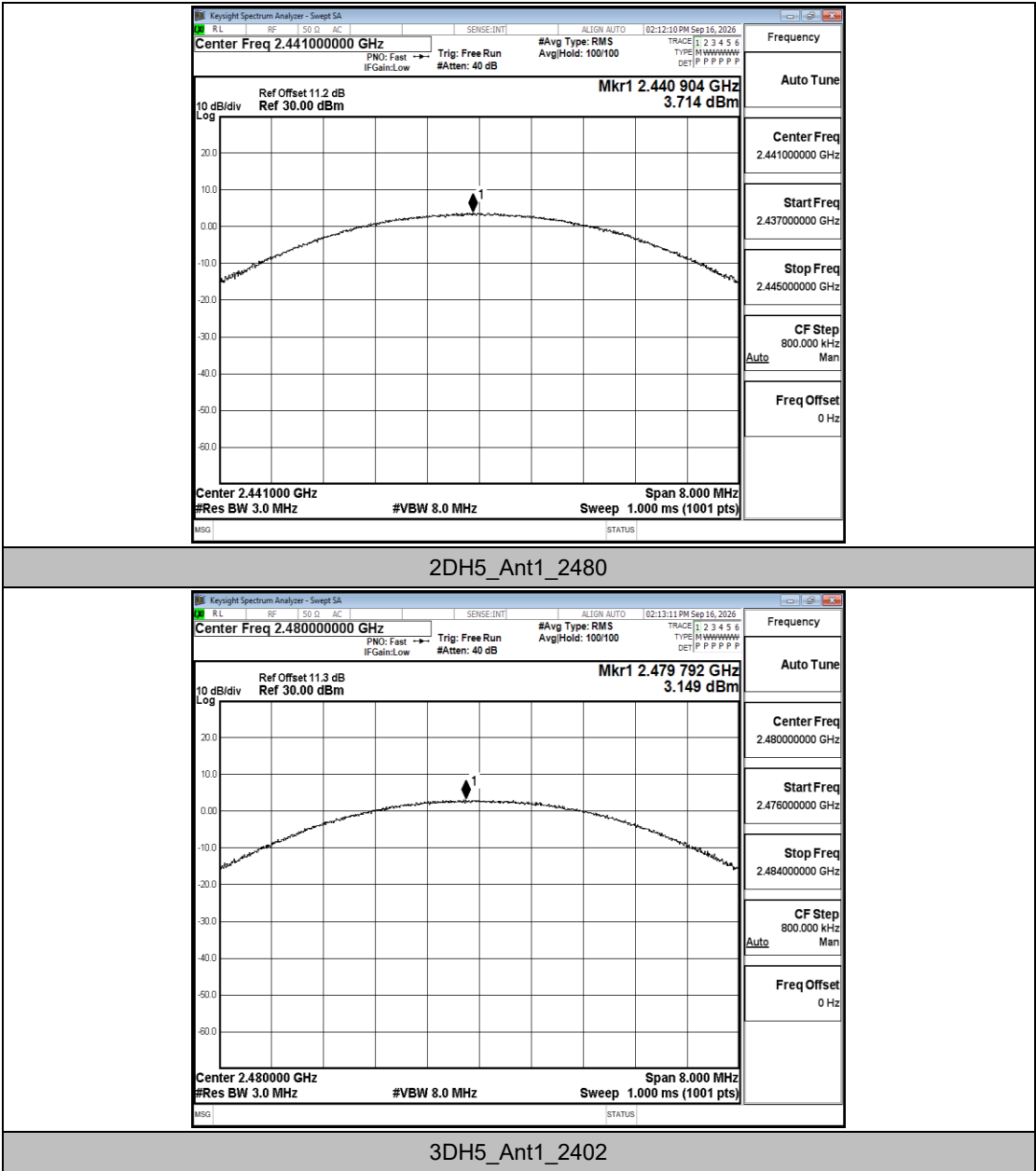
Test Result

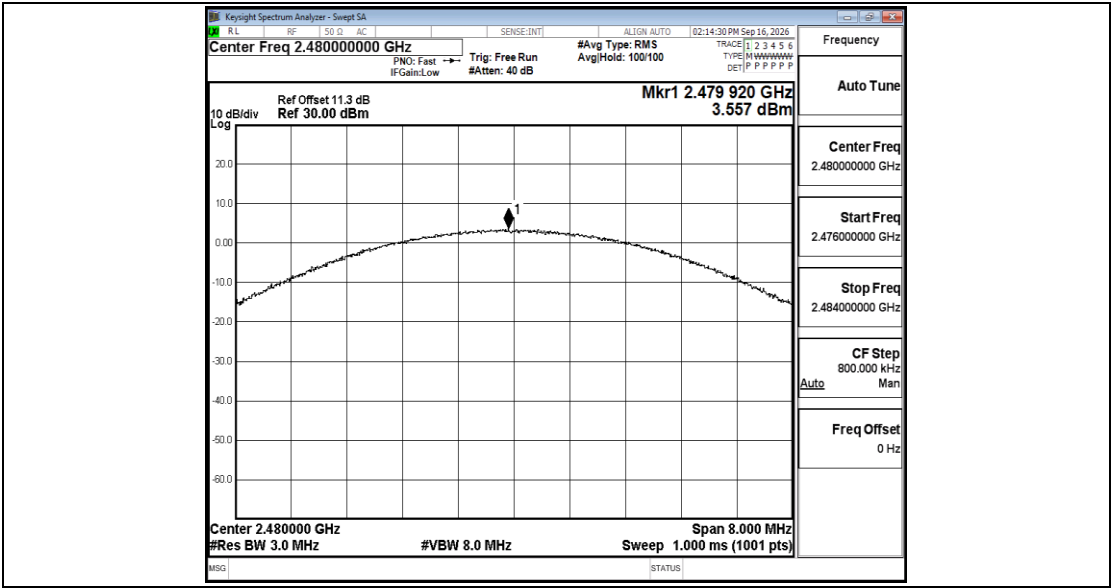
TestMode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.27	≤20.97	PASS
		2441	2.09	≤20.97	PASS
		2480	1.53	≤20.97	PASS
2DH5	Ant1	2402	3.73	≤20.97	PASS
		2441	3.71	≤20.97	PASS
		2480	3.15	≤20.97	PASS
3DH5	Ant1	2402	4.18	≤20.97	PASS
		2441	4.12	≤20.97	PASS
		2480	3.56	≤20.97	PASS

Test Graphs







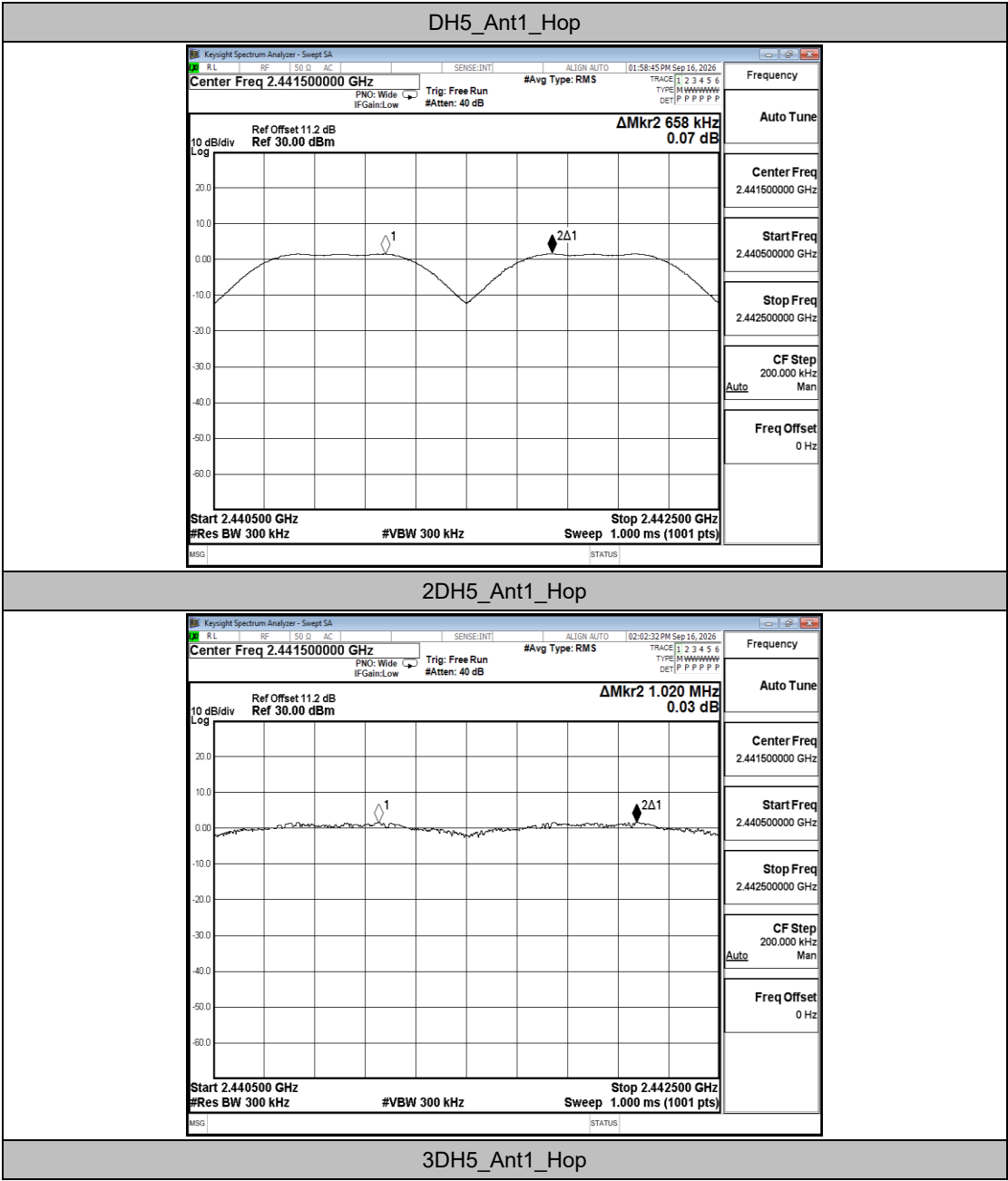


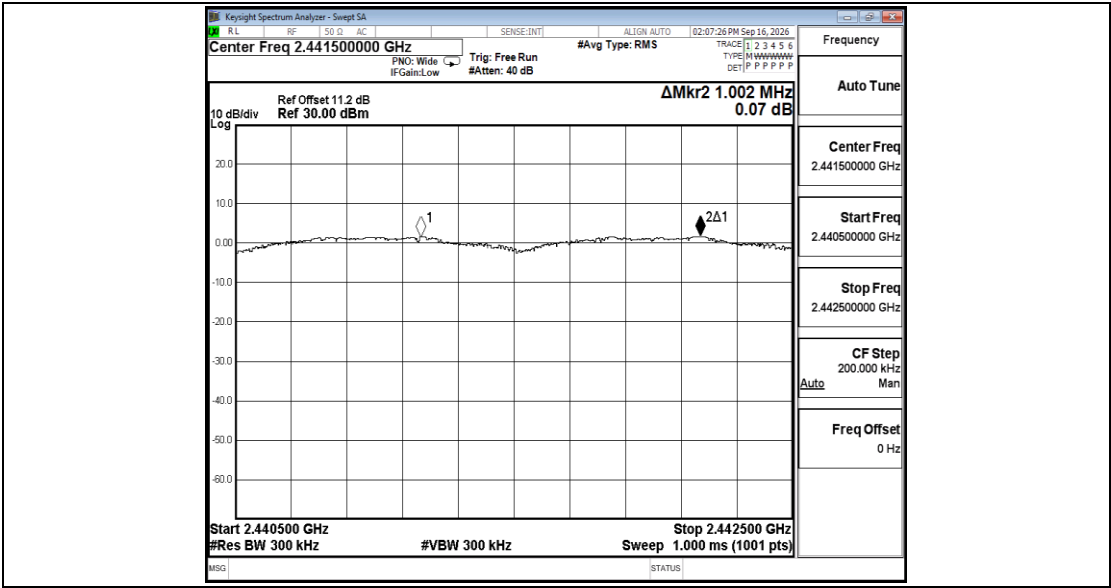
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.658	≥0.632	PASS
2DH5	Ant1	Hop	1.02	≥0.858	PASS
3DH5	Ant1	Hop	1.002	≥0.864	PASS

Test Graphs



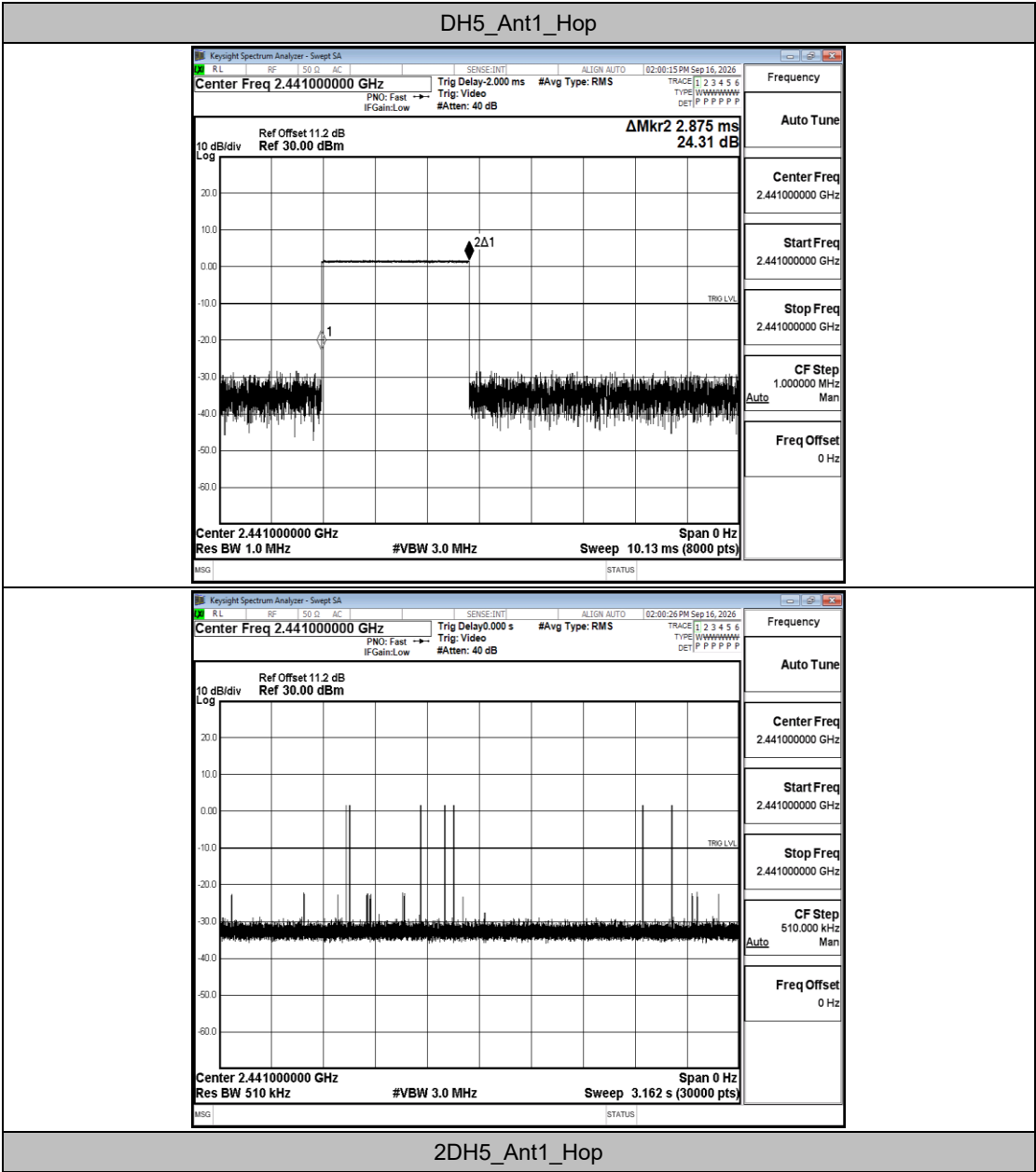


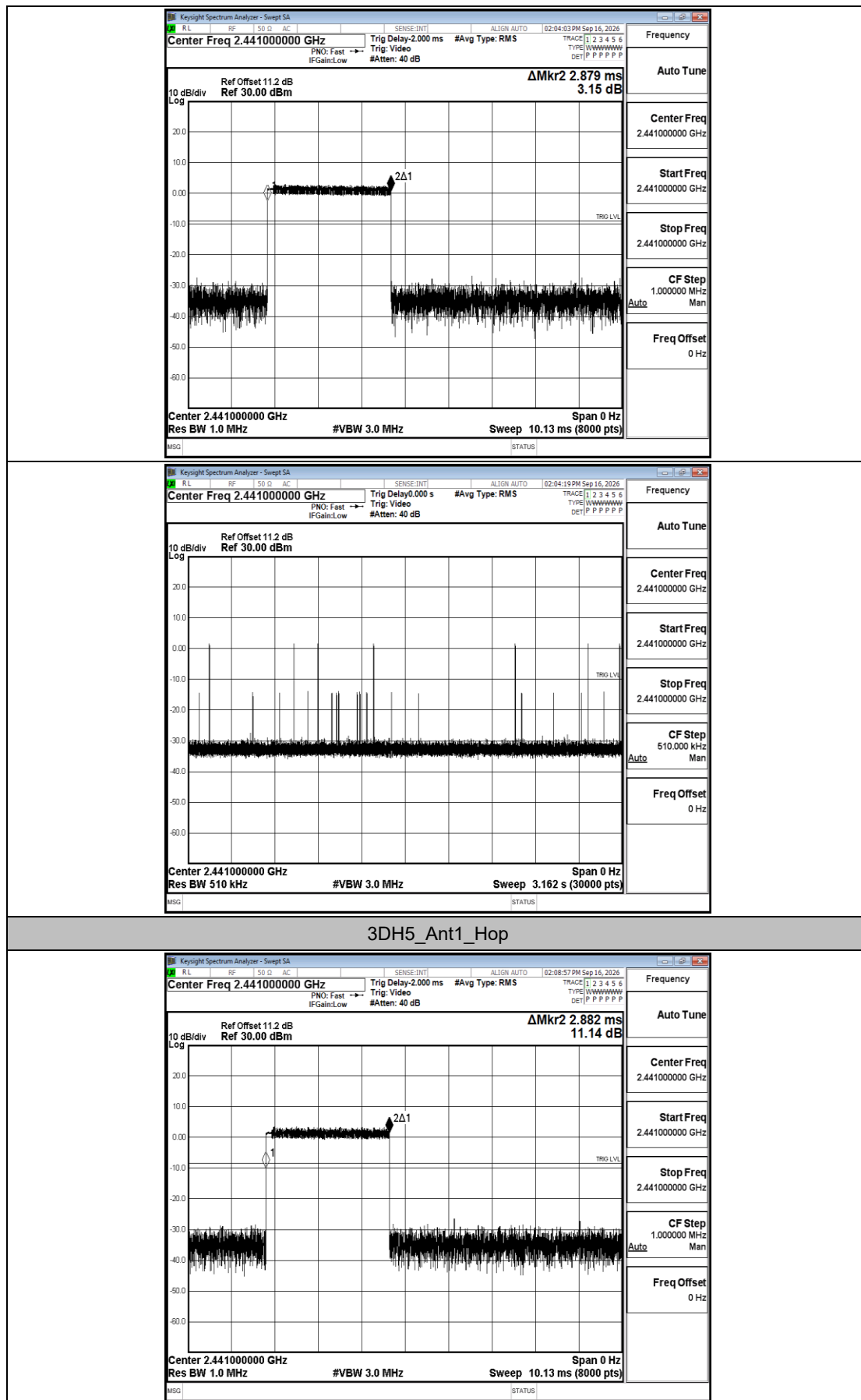
A.4 Time of occupancy

Test Result

TestMode	Antenna	Freq (MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.875	80	0.23	≤0.4	PASS
2DH5	Ant1	Hop	2.879	80	0.23	≤0.4	PASS
3DH5	Ant1	Hop	2.882	80	0.231	≤0.4	PASS

Test Graphs

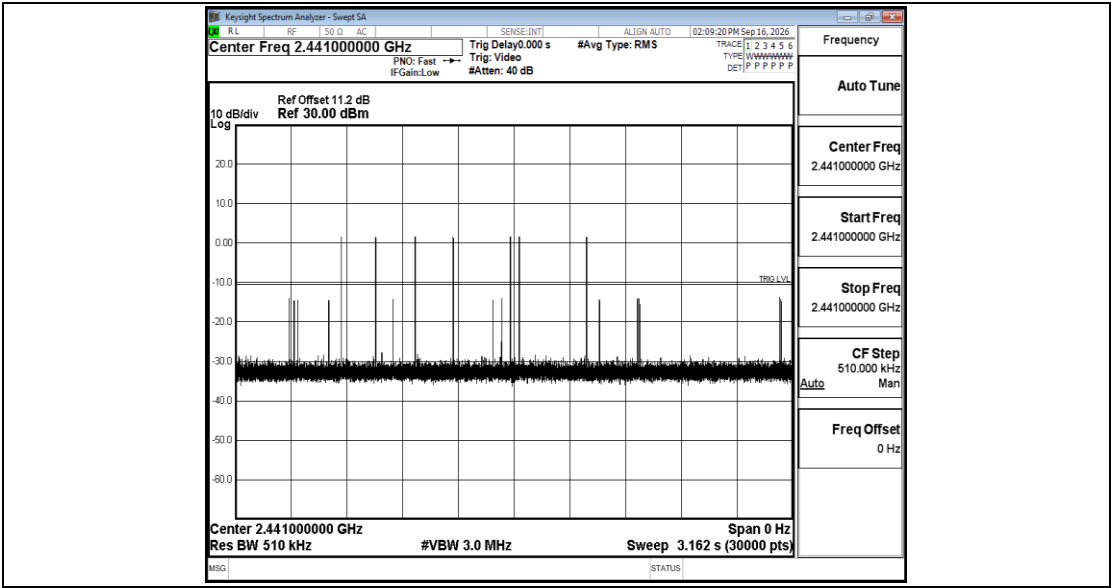




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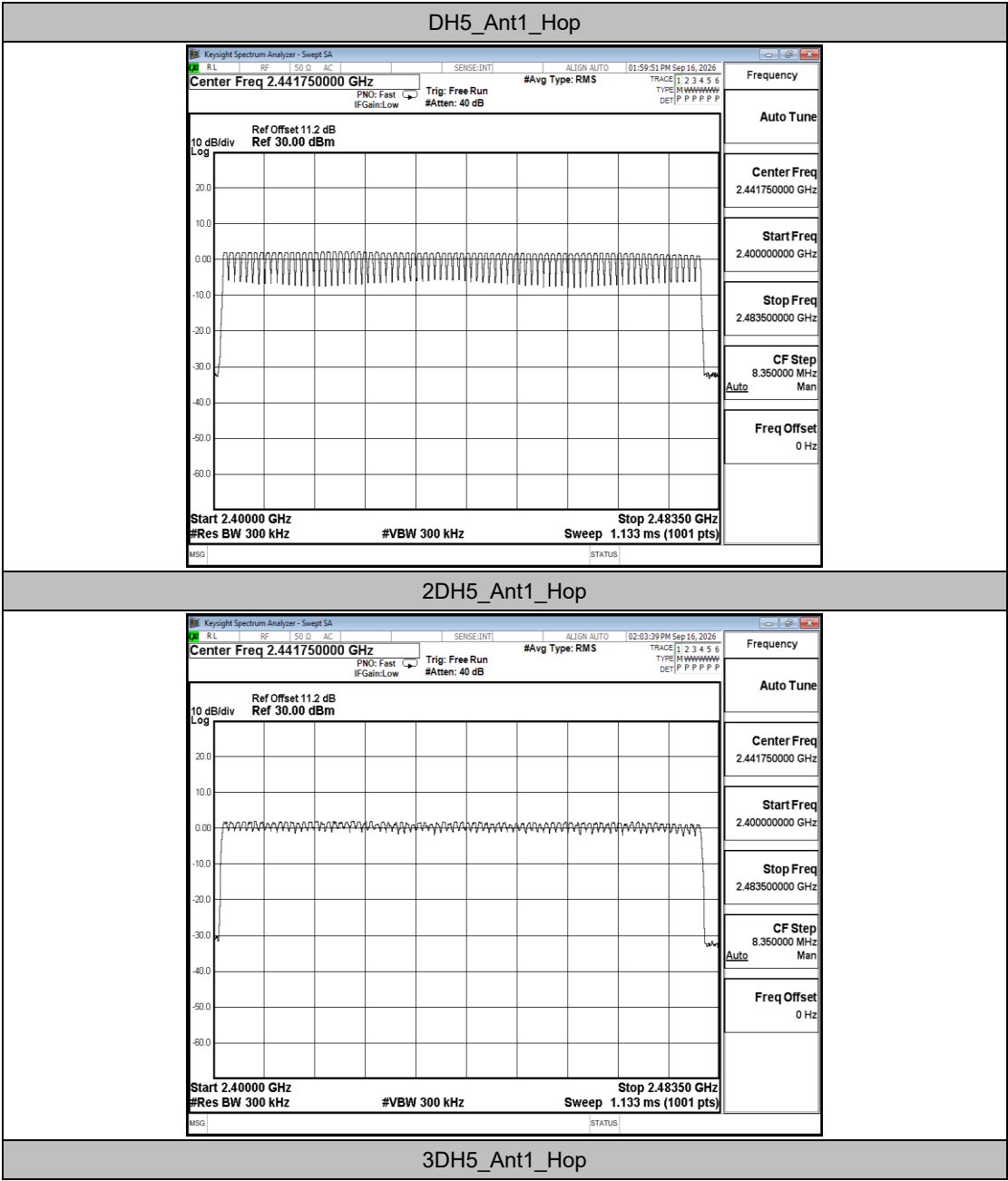


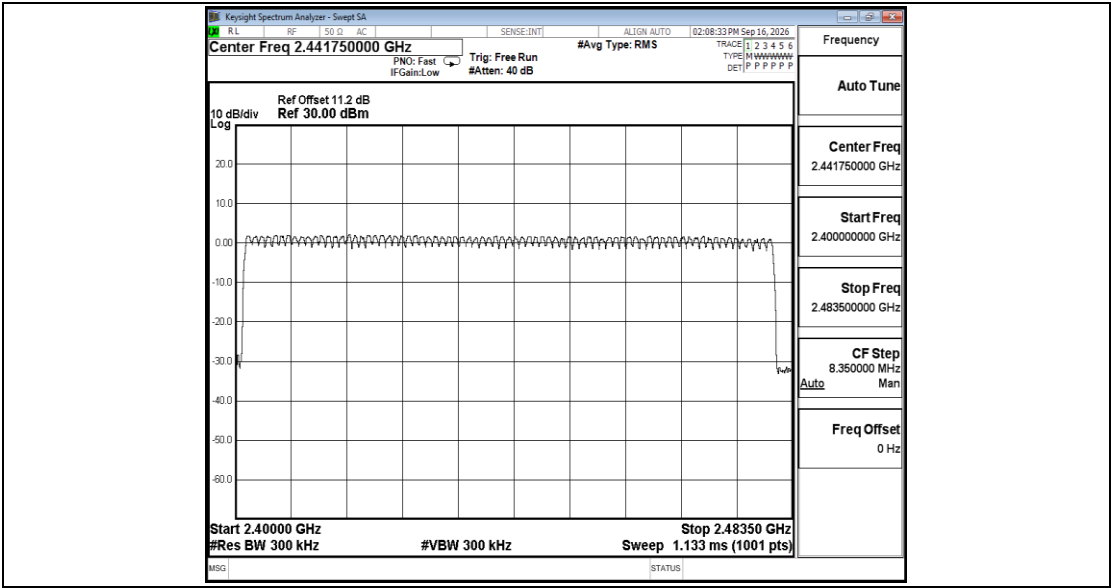
A.5 Number of hopping channels

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



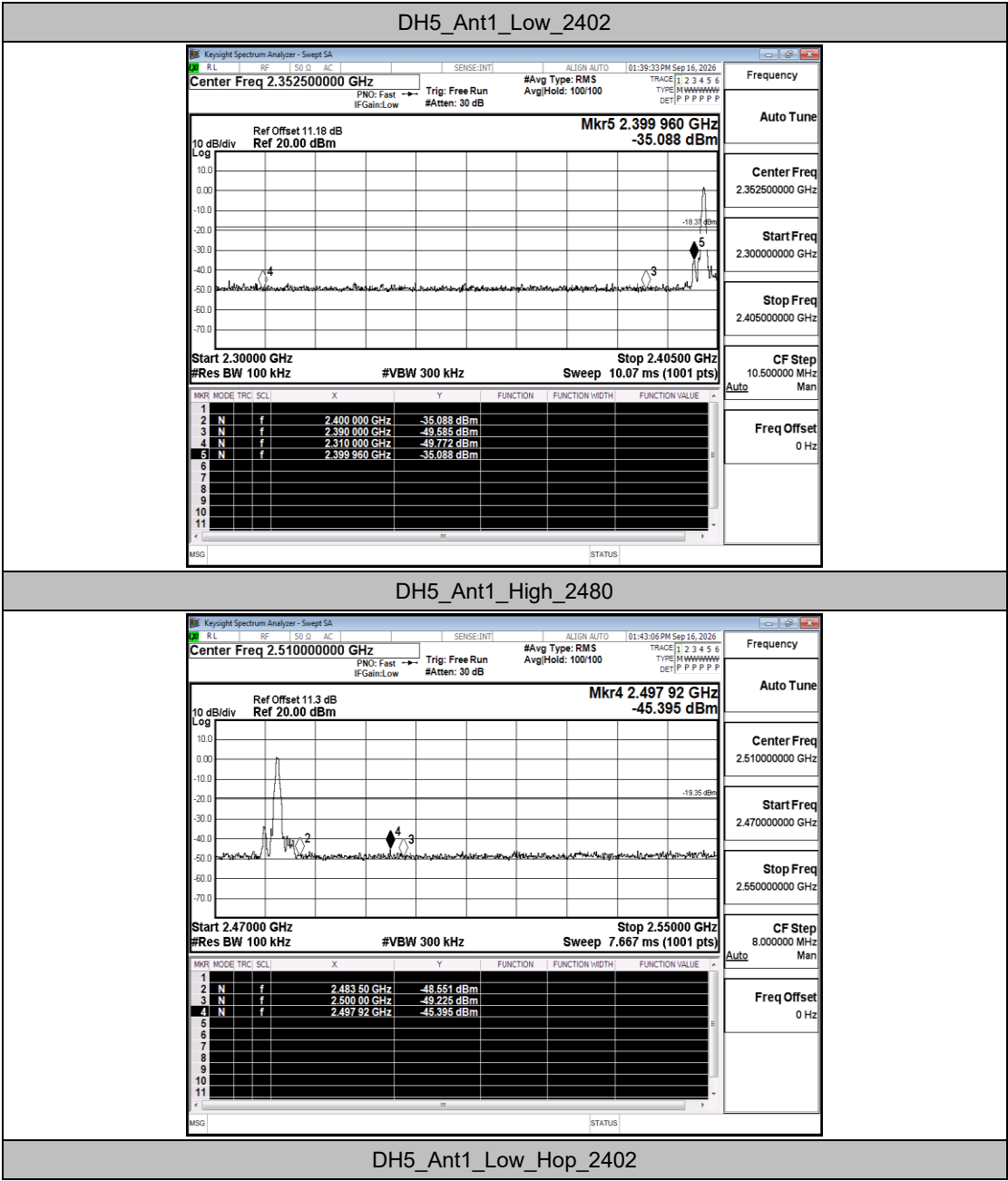


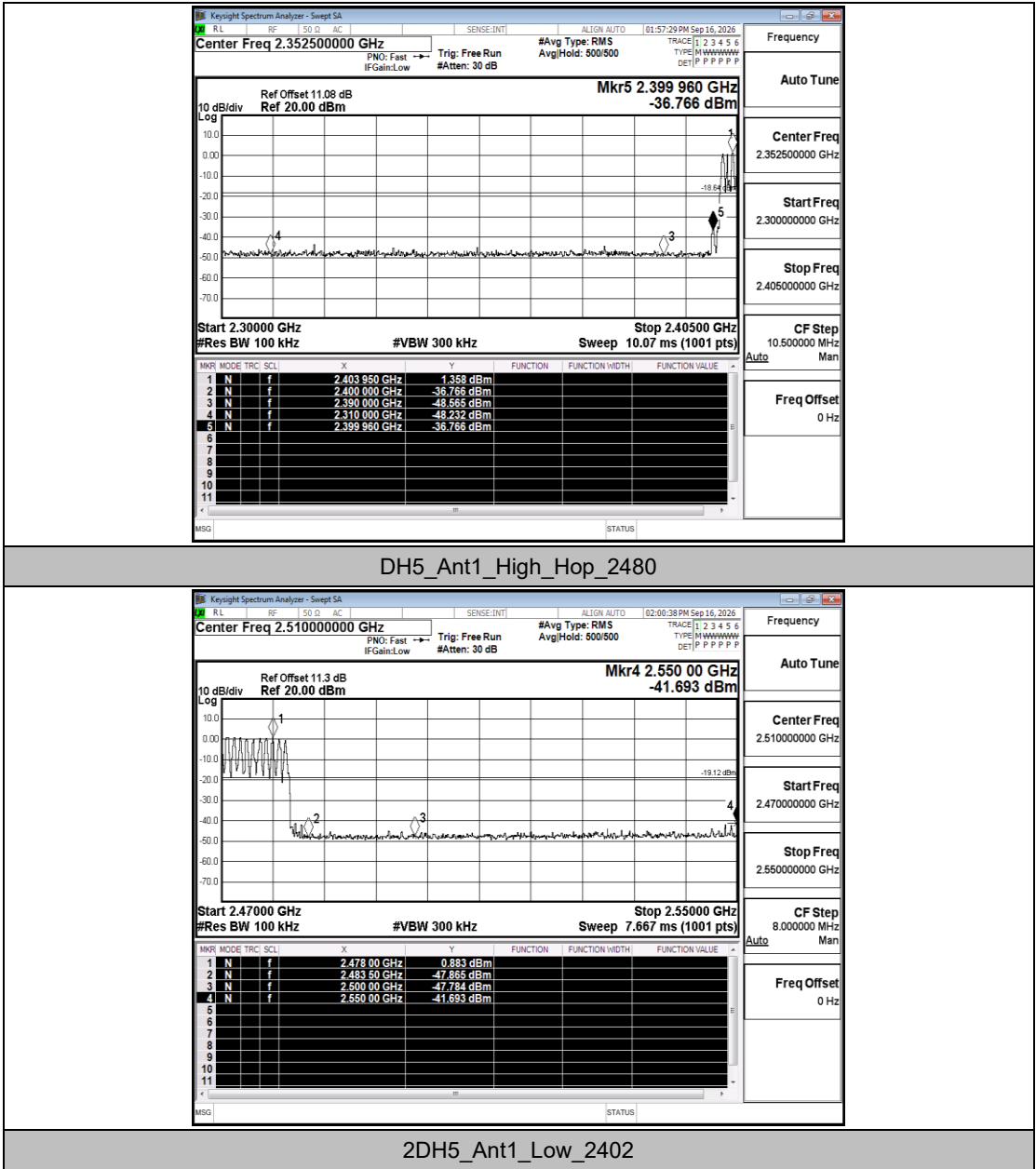
A.6 Band edge measurements

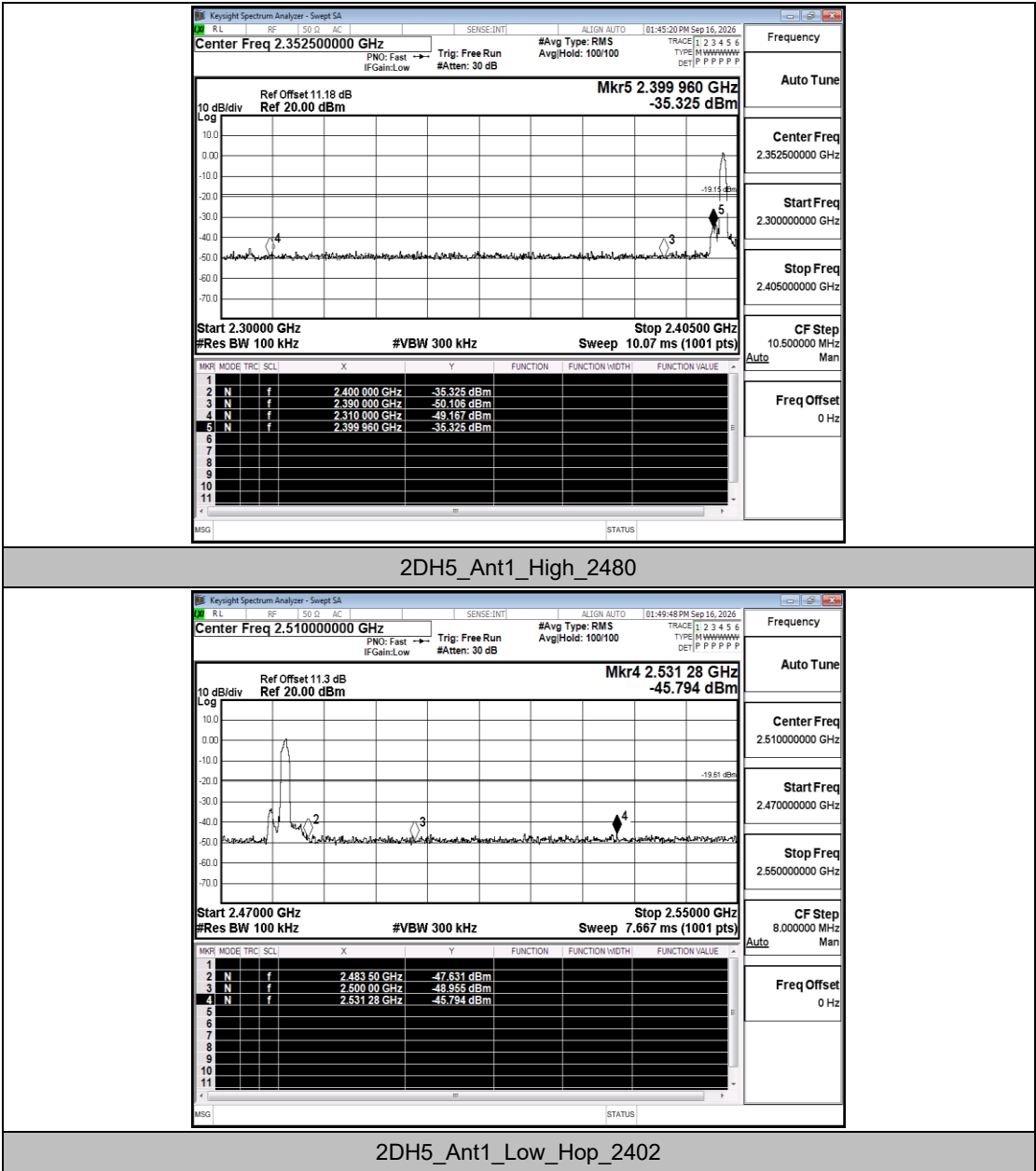
Test Result

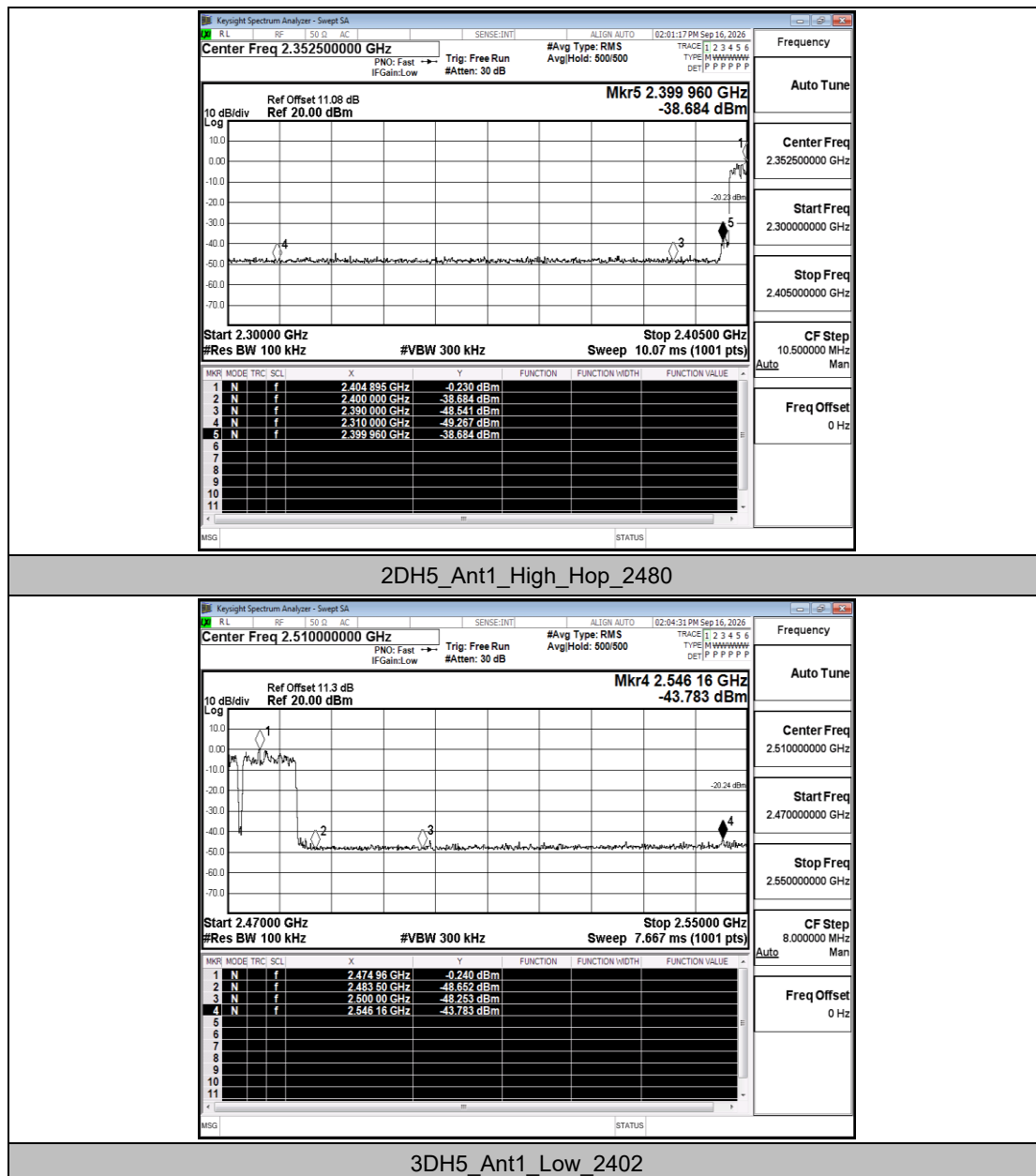
TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.63	-35.09	≤-18.37	PASS
		High	2480	0.65	-45.4	≤-19.35	PASS
		Low	Hop_2402	1.36	-36.77	≤-18.64	PASS
		High	Hop_2480	0.88	-41.69	≤-19.12	PASS
2DH5	Ant1	Low	2402	0.85	-35.33	≤-19.15	PASS
		High	2480	0.39	-45.79	≤-19.61	PASS
		Low	Hop_2402	-0.23	-38.68	≤-20.23	PASS
		High	Hop_2480	-0.24	-43.78	≤-20.24	PASS
3DH5	Ant1	Low	2402	1.37	-37	≤-18.63	PASS
		High	2480	0.67	-46.02	≤-19.33	PASS
		Low	Hop_2402	-0.49	-37.53	≤-20.49	PASS
		High	Hop_2480	1.23	-43.04	≤-18.77	PASS

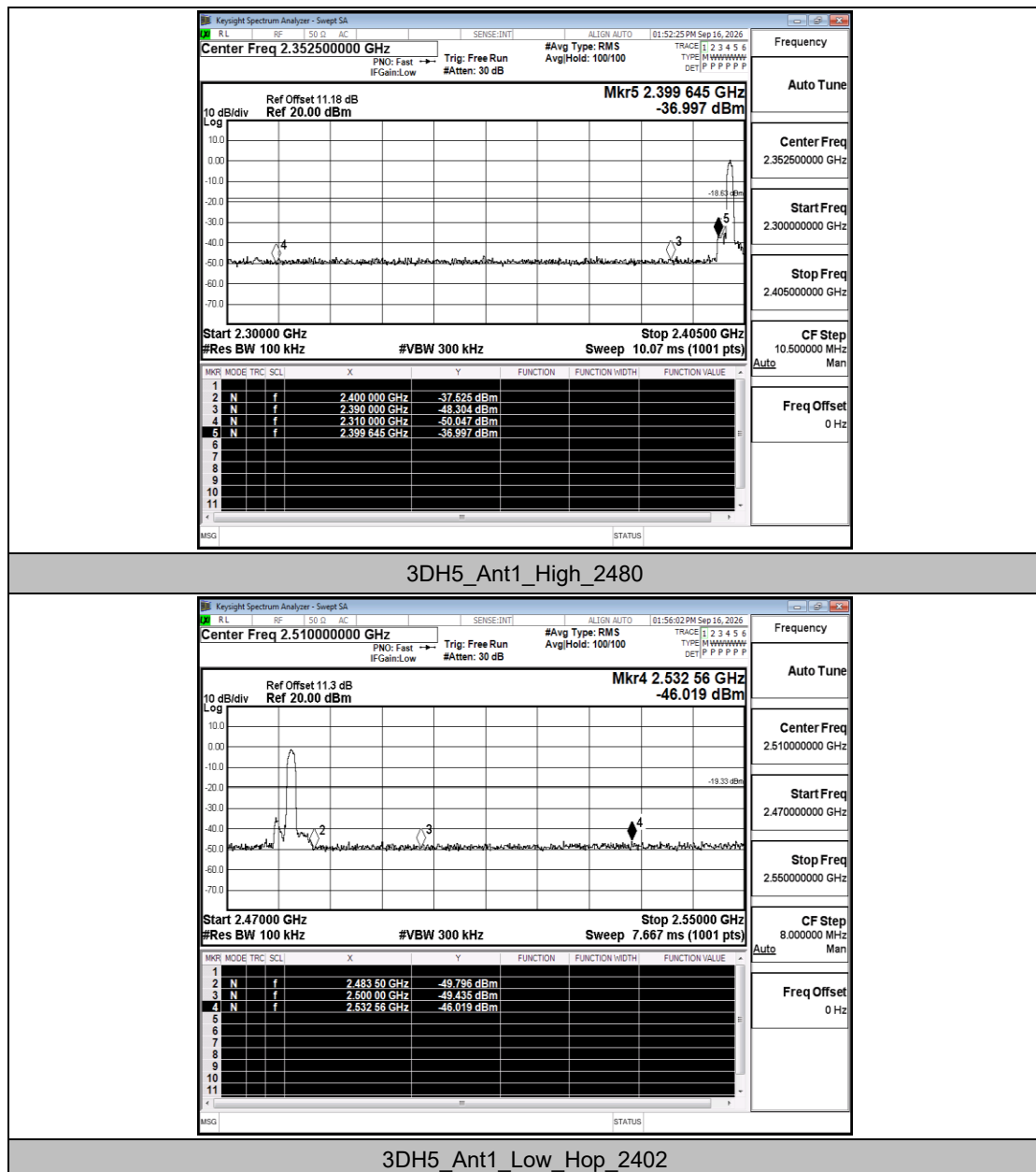
Test Graphs

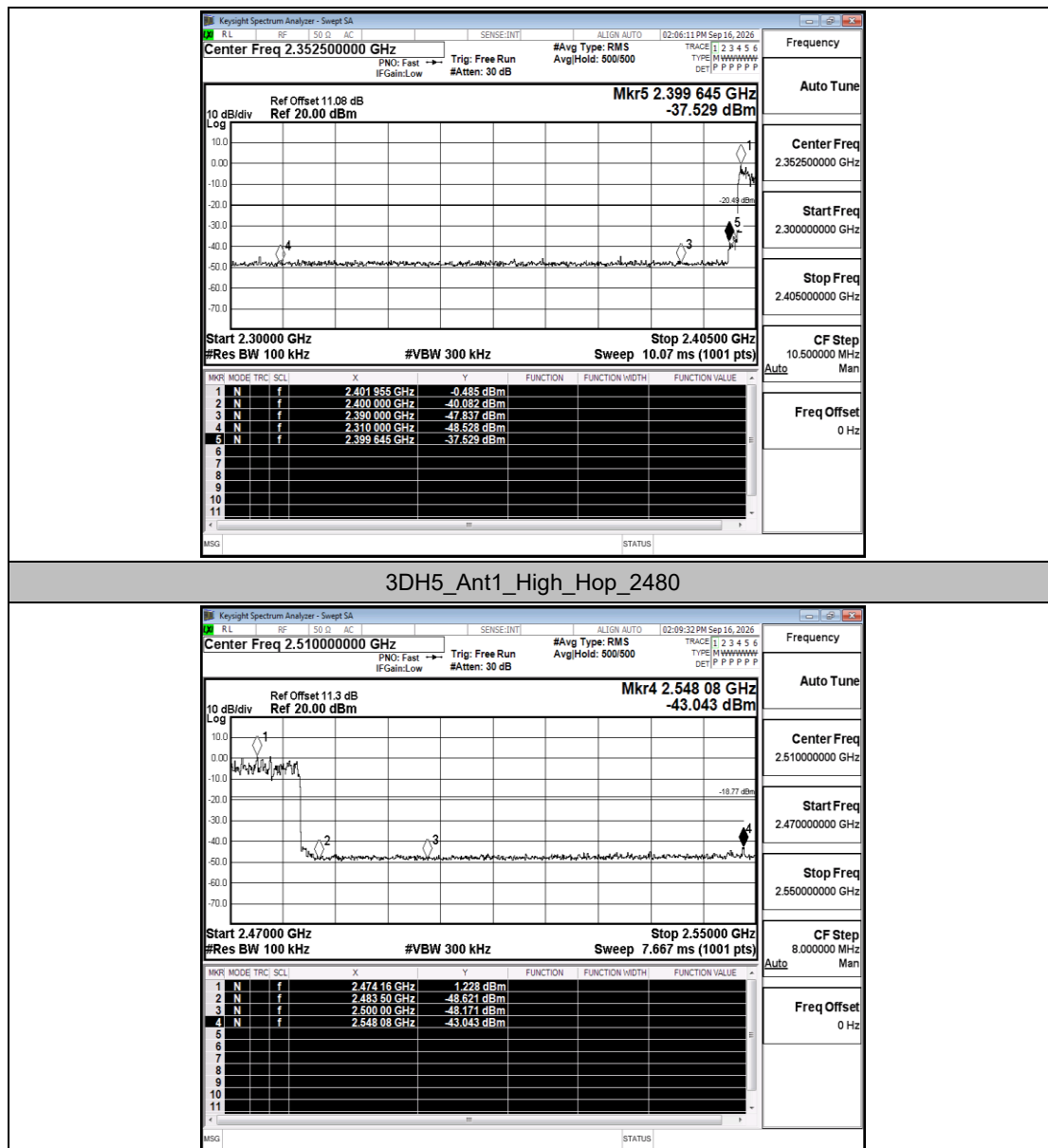












A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.67	1.67	---	PASS
			30~1000	1.67	-54.31	≤-18.33	PASS
			1000~26500	1.67	-33.33	≤-18.33	PASS
		2441	Reference	1.40	1.40	---	PASS
			30~1000	1.40	-54.62	≤-18.6	PASS
			1000~26500	1.40	-32.98	≤-18.6	PASS
		2480	Reference	0.88	0.88	---	PASS
			30~1000	0.88	-54.71	≤-19.12	PASS
			1000~26500	0.88	-33.94	≤-19.12	PASS
2DH5	Ant1	2402	Reference	1.63	1.63	---	PASS
			30~1000	1.63	-54.49	≤-18.37	PASS
			1000~26500	1.63	-33.81	≤-18.37	PASS
		2441	Reference	1.37	1.37	---	PASS
			30~1000	1.37	-54.04	≤-18.63	PASS
			1000~26500	1.37	-34.63	≤-18.63	PASS
		2480	Reference	0.85	0.85	---	PASS
			30~1000	0.85	-54.49	≤-19.15	PASS
			1000~26500	0.85	-38.47	≤-19.15	PASS
3DH5	Ant1	2402	Reference	1.64	1.64	---	PASS
			30~1000	1.64	-54.17	≤-18.36	PASS
			1000~26500	1.64	-33.8	≤-18.36	PASS
		2441	Reference	1.40	1.40	---	PASS
			30~1000	1.40	-54.61	≤-18.6	PASS
			1000~26500	1.40	-36.08	≤-18.6	PASS
		2480	Reference	0.86	0.86	---	PASS
			30~1000	0.86	-54.02	≤-19.14	PASS
			1000~26500	0.86	-36.76	≤-19.14	PASS

Test Graphs

