

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Smart Phone

Test Model: ULTRA S25

Environmental Conditions

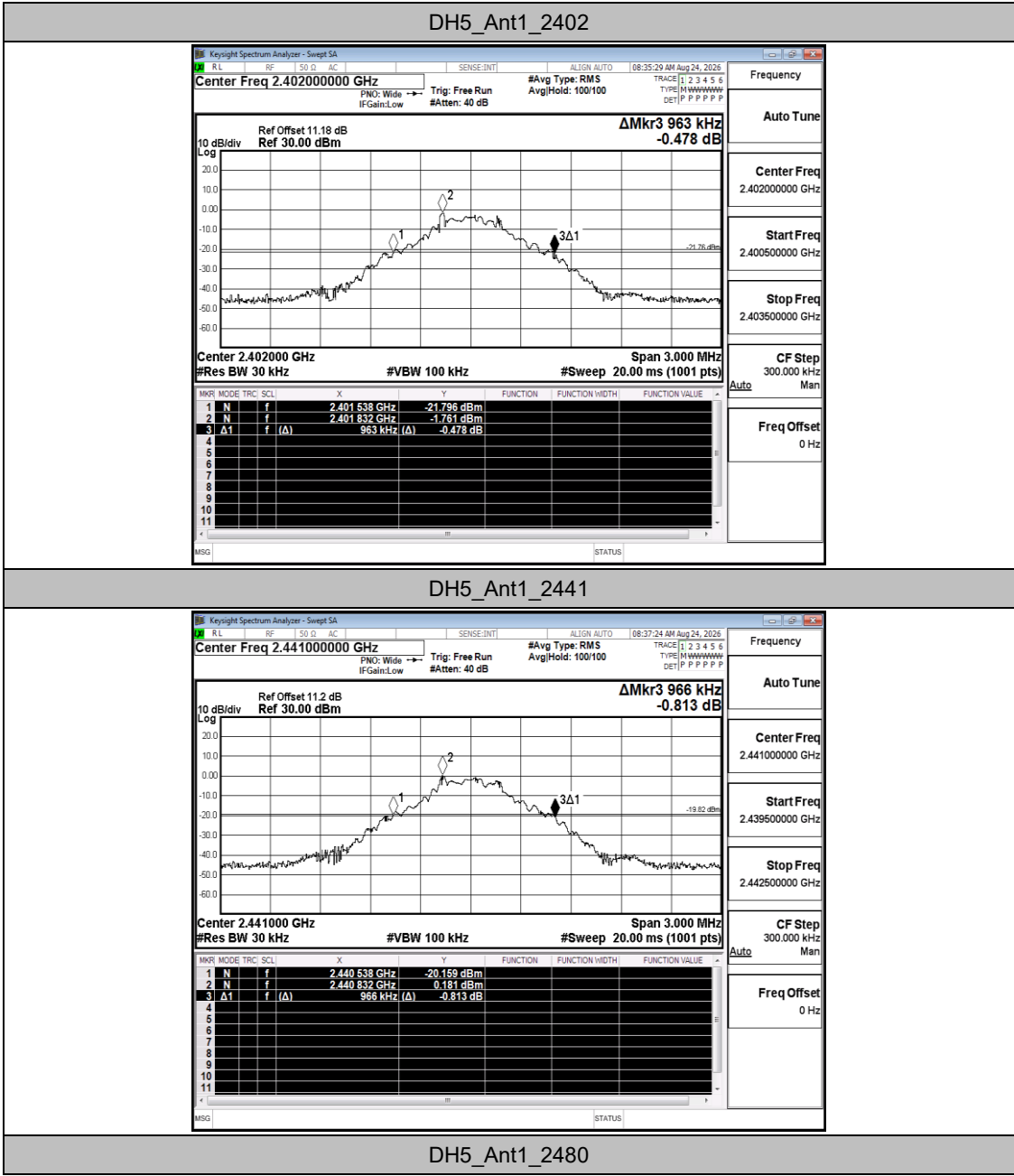
Temperature:	24.3°C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

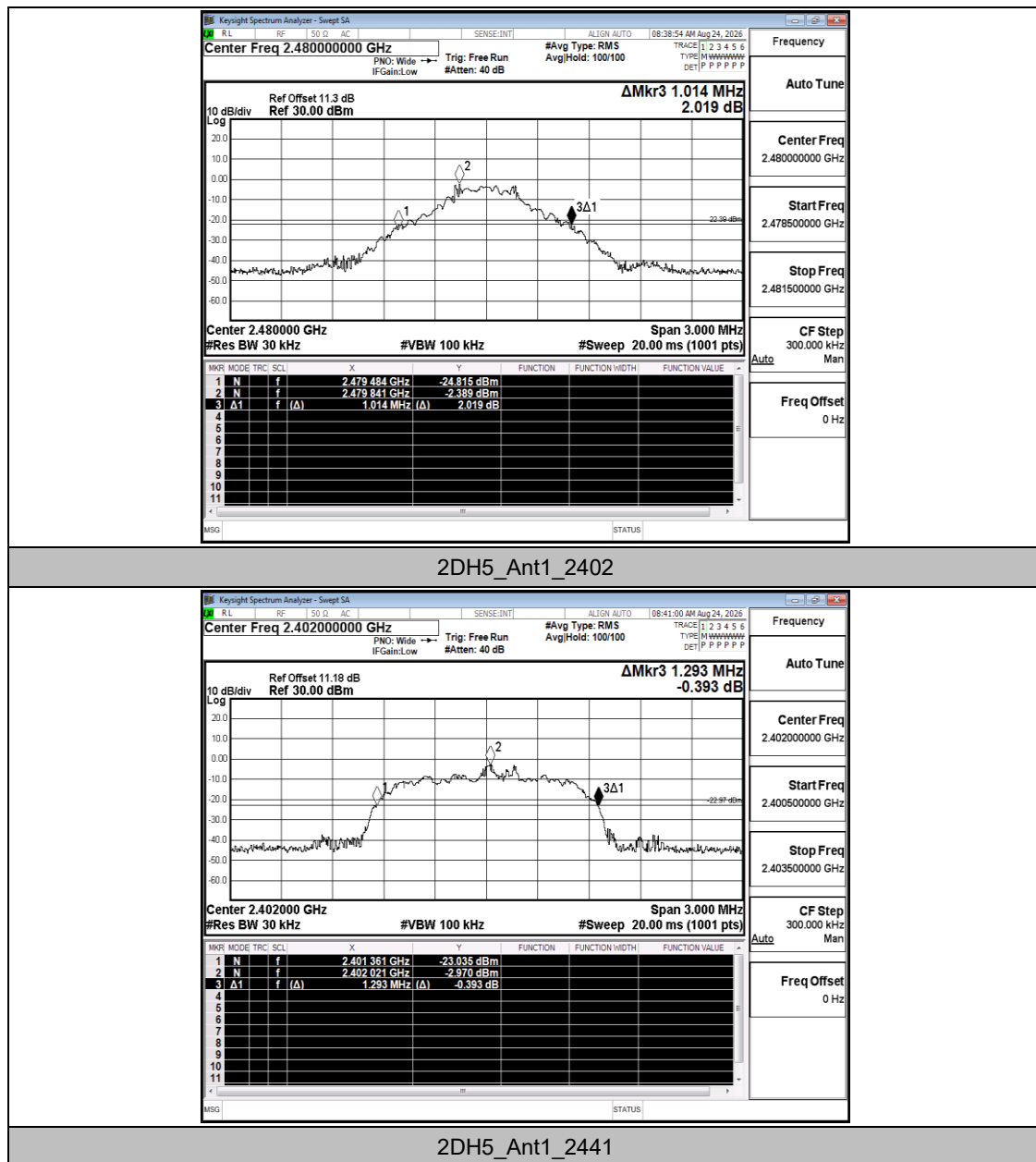
A.1 20dB Emission Bandwidth

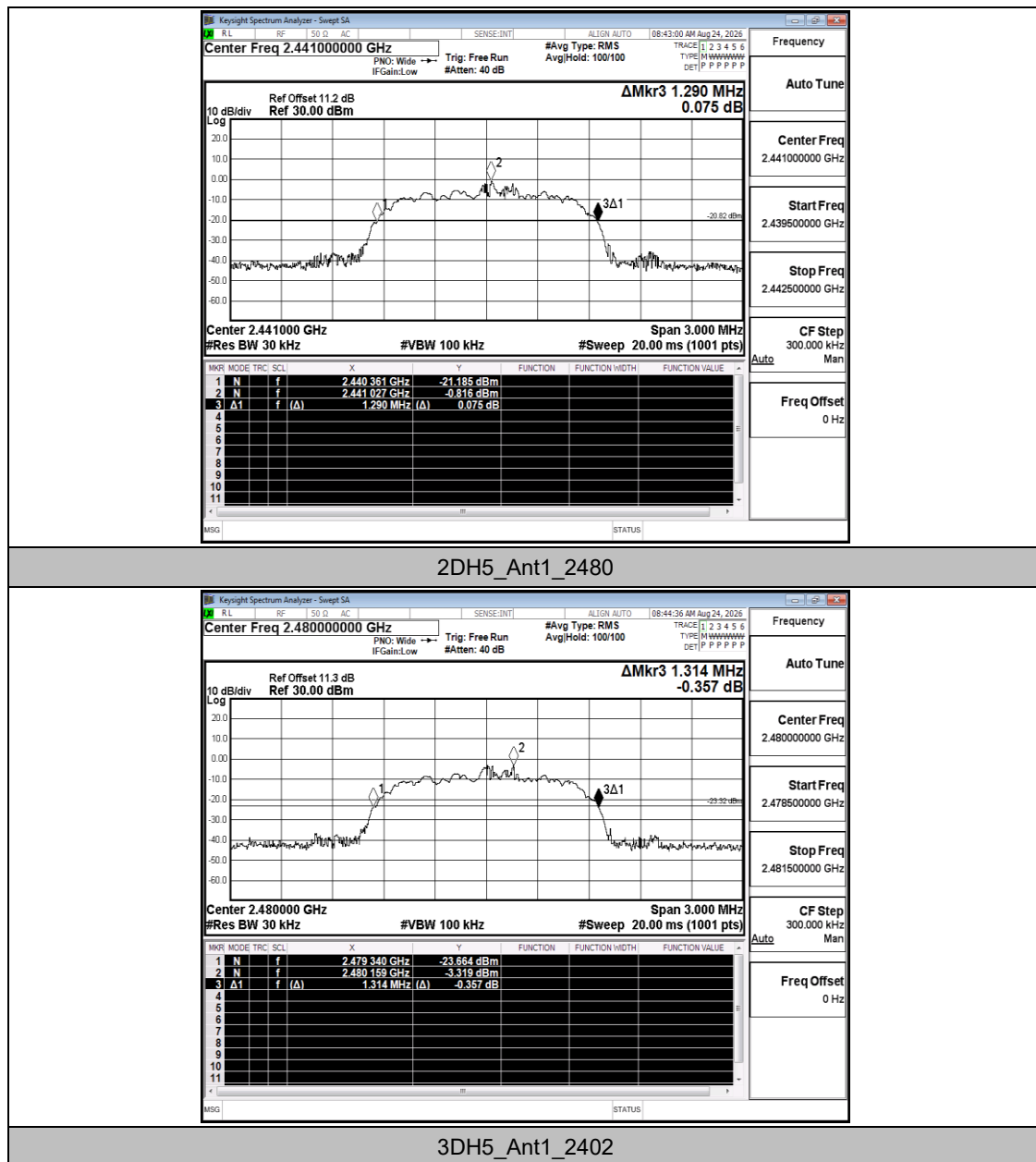
Test Result

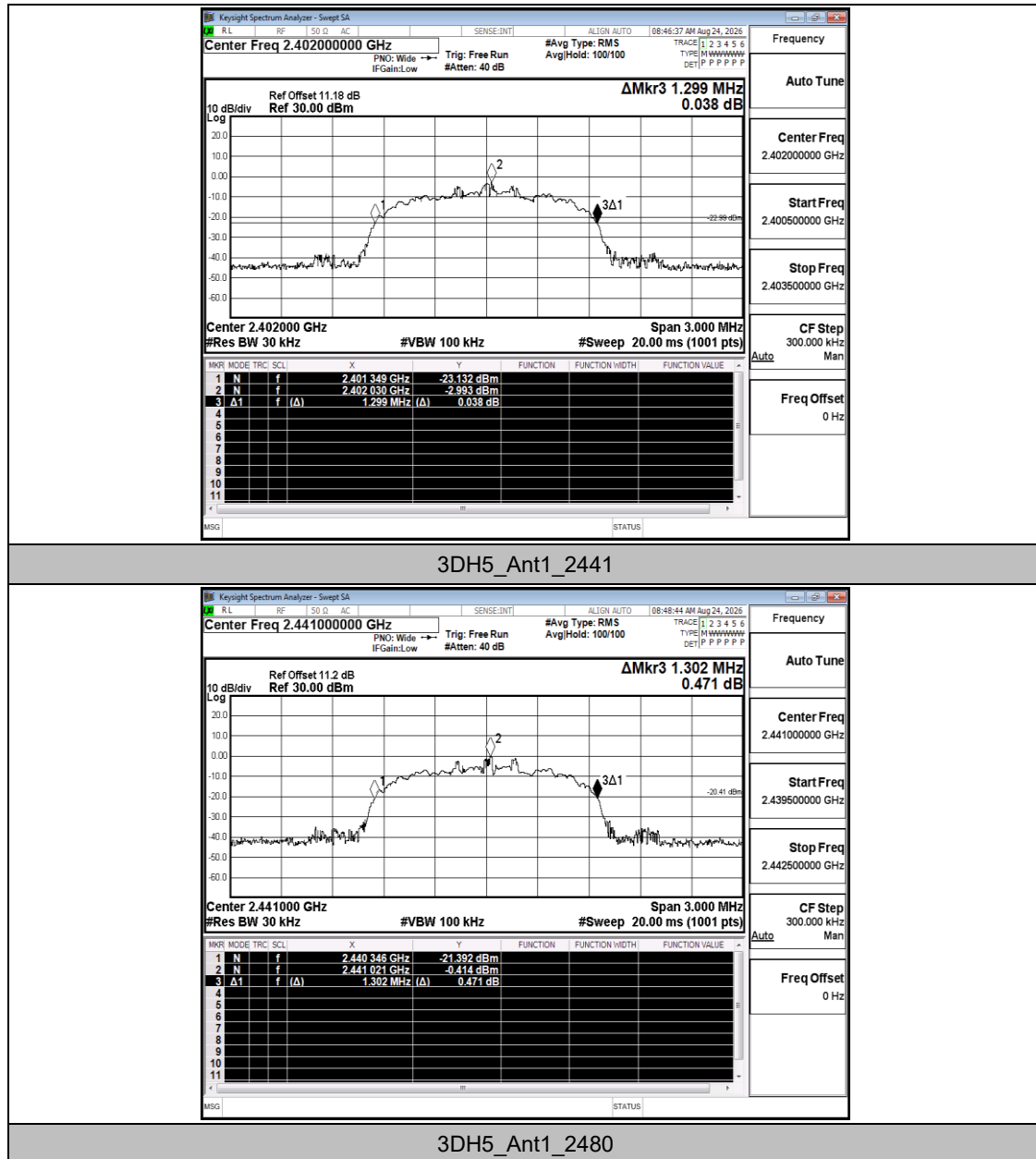
TestMode	Antenna	Freq (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.963	2401.538	2402.501	---	---
		2441	0.966	2440.538	2441.504	---	---
		2480	1.014	2479.484	2480.498	---	---
2DH5	Ant1	2402	1.293	2401.361	2402.654	---	---
		2441	1.290	2440.361	2441.651	---	---
		2480	1.314	2479.340	2480.654	---	---
3DH5	Ant1	2402	1.299	2401.349	2402.648	---	---
		2441	1.302	2440.346	2441.648	---	---
		2480	1.302	2479.346	2480.648	---	---

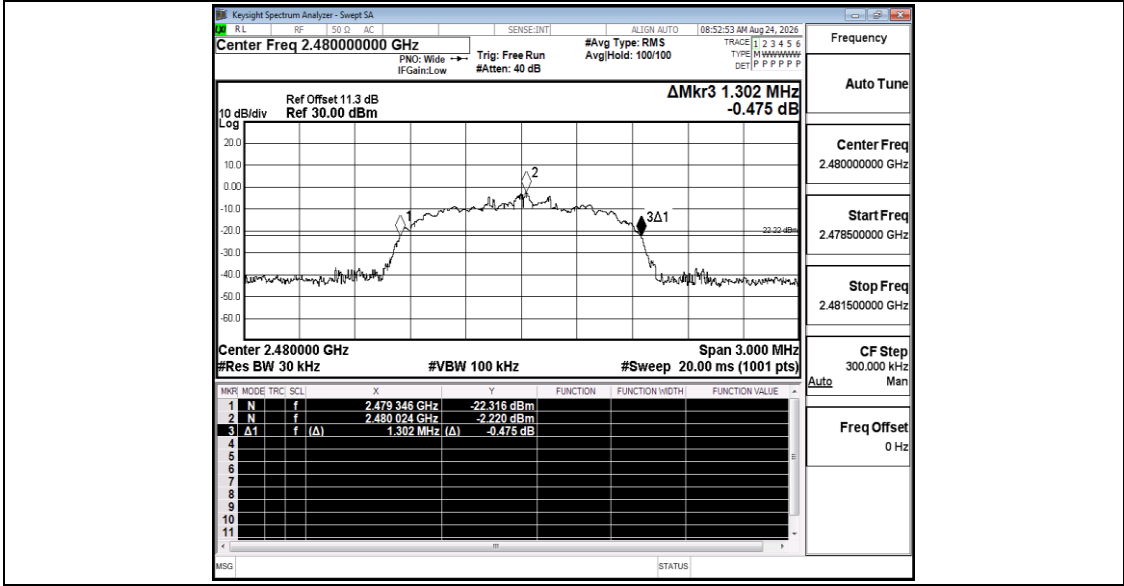
Test Graphs









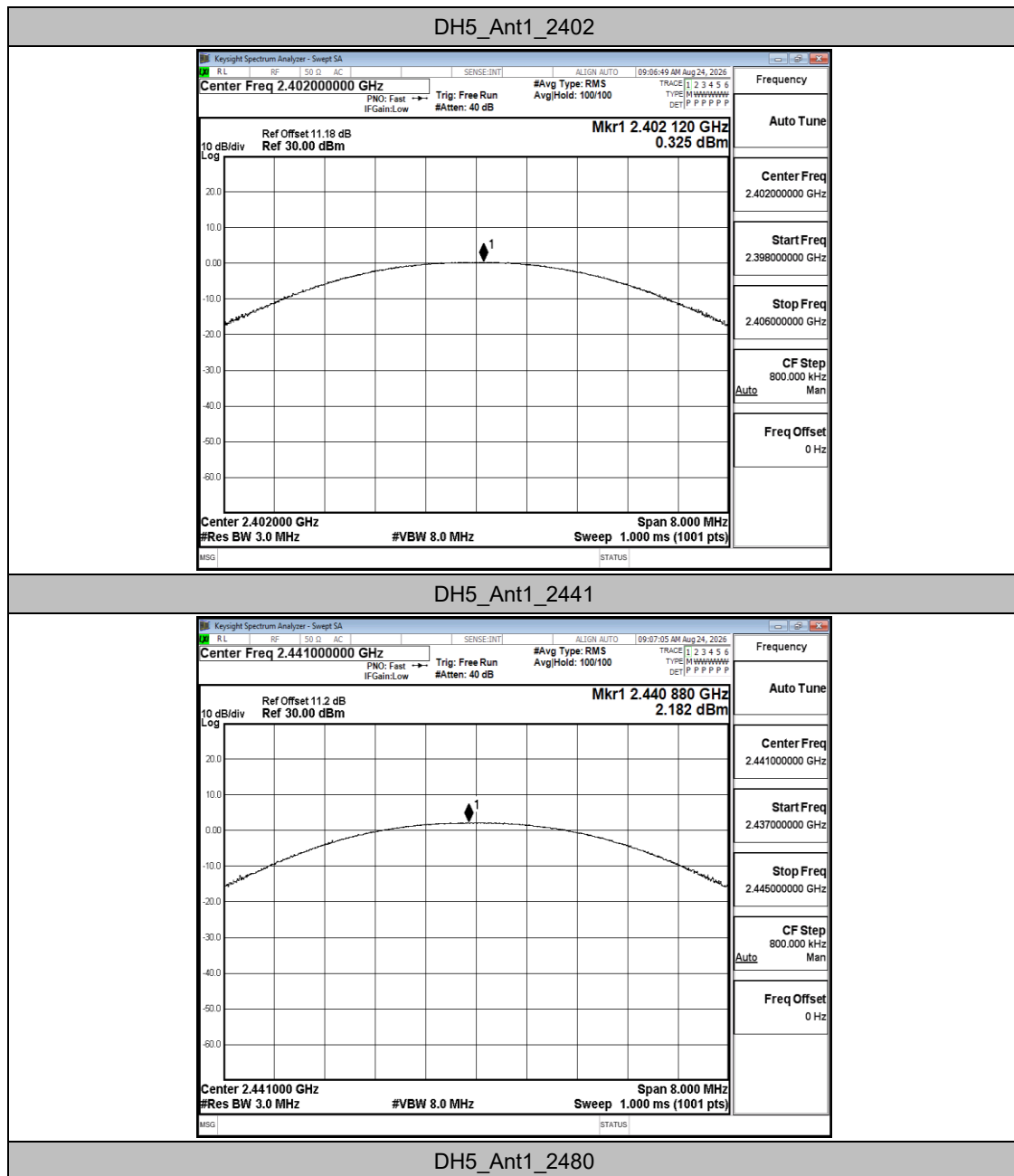


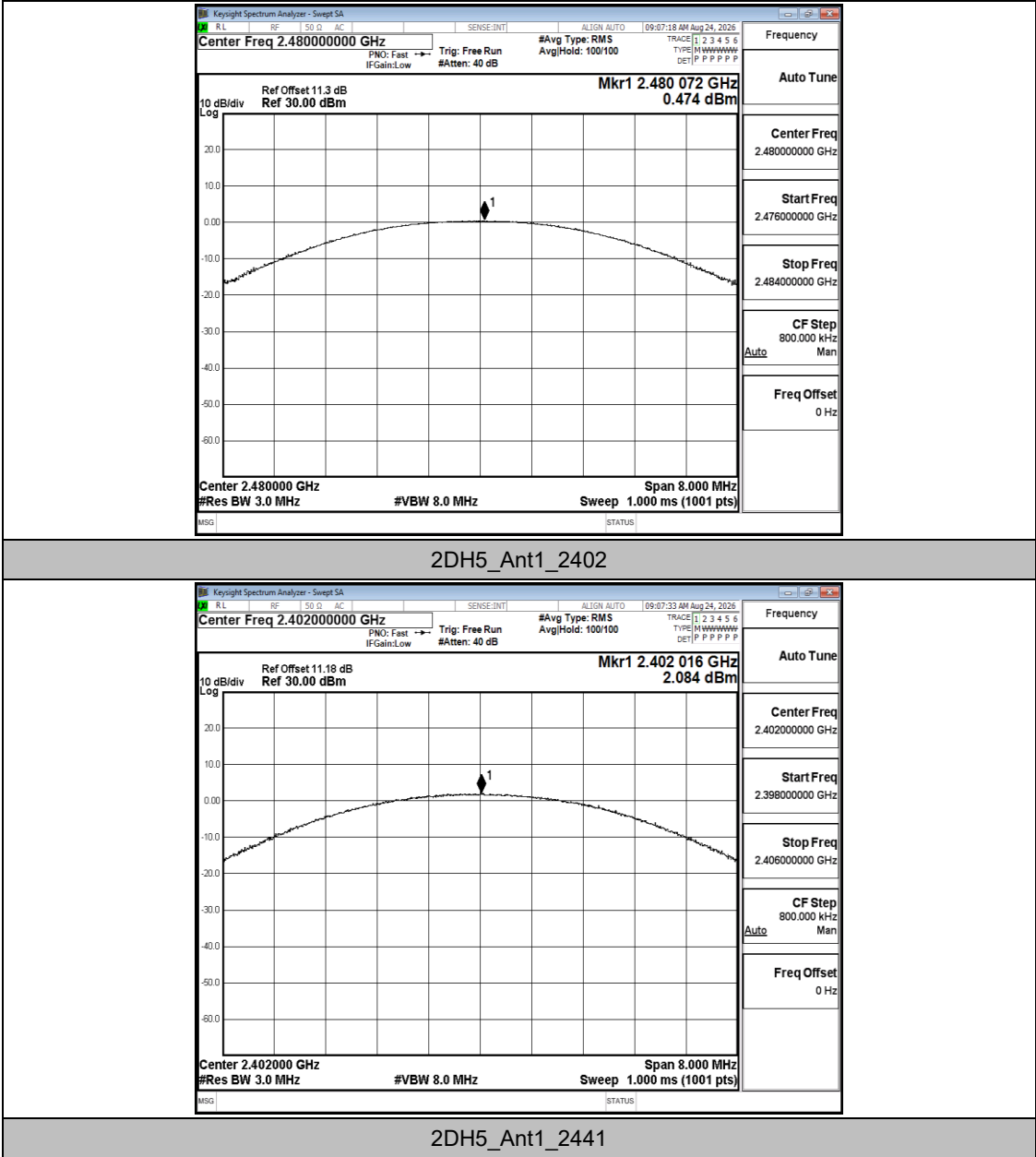
A.2 Maximum Peak conducted output power

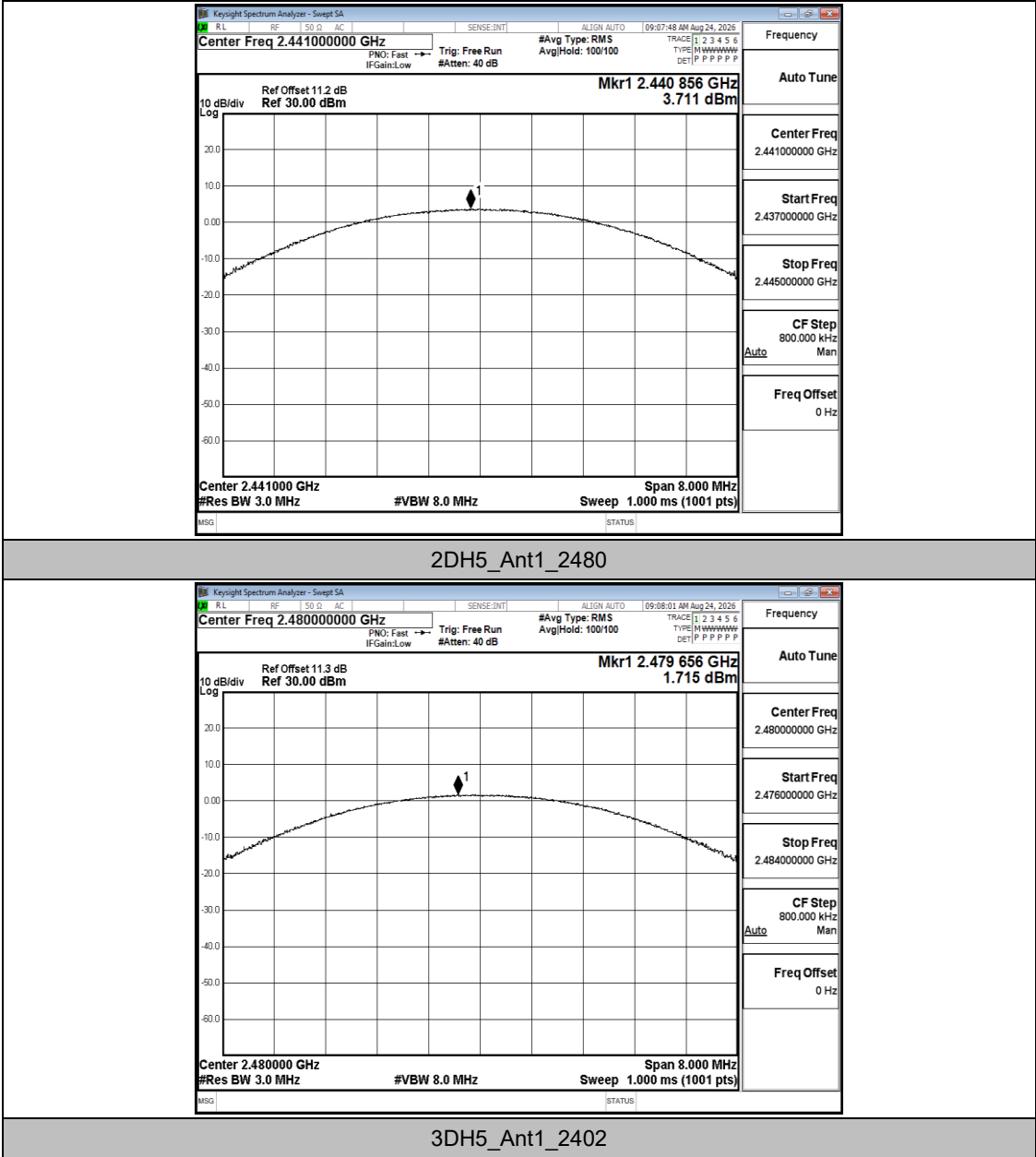
Test Result Peak

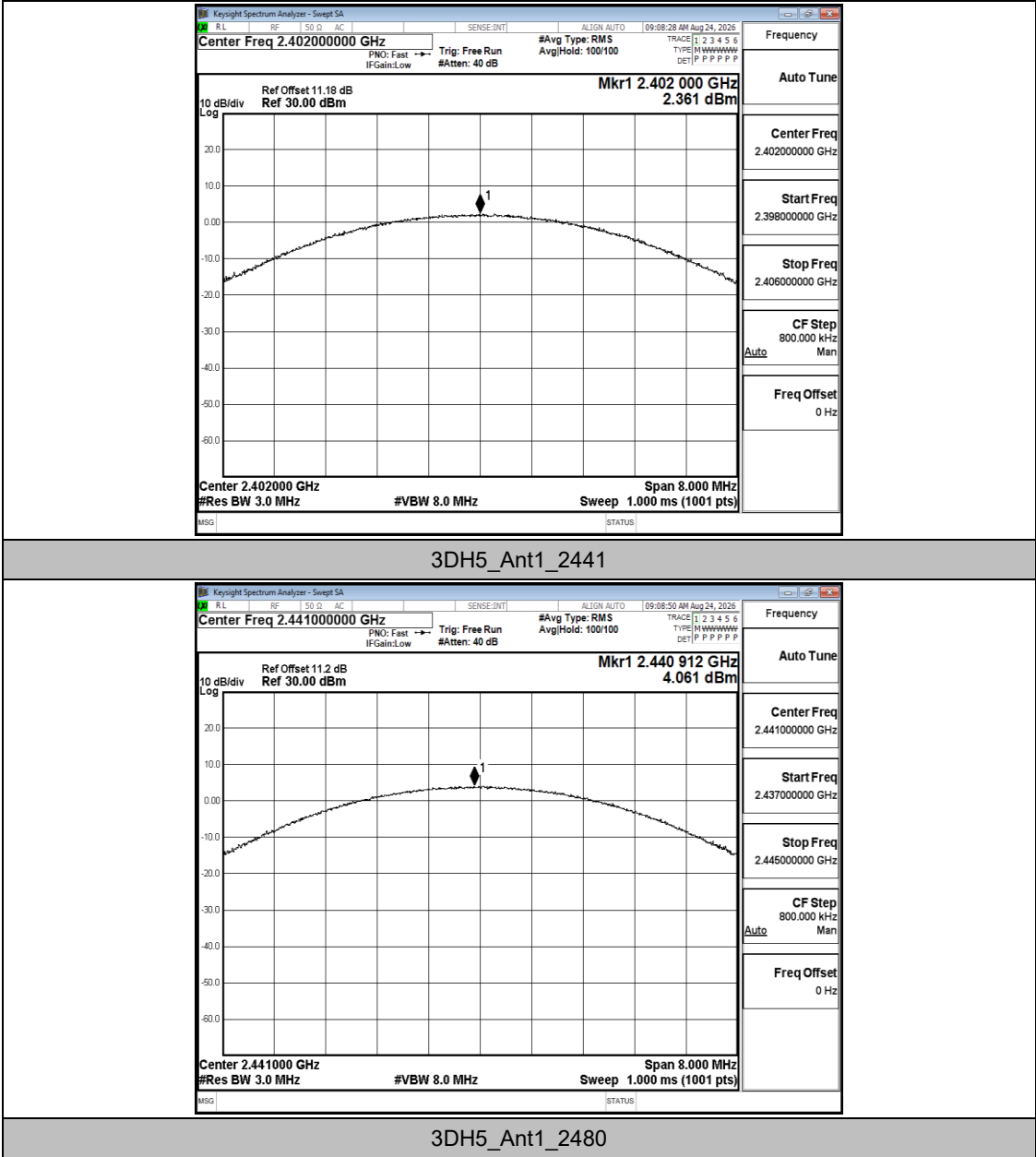
TestMode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.33	≤20.97	PASS
		2441	2.18	≤20.97	PASS
		2480	0.47	≤20.97	PASS
2DH5	Ant1	2402	2.08	≤20.97	PASS
		2441	3.71	≤20.97	PASS
		2480	1.72	≤20.97	PASS
3DH5	Ant1	2402	2.36	≤20.97	PASS
		2441	4.06	≤20.97	PASS
		2480	1.97	≤20.97	PASS

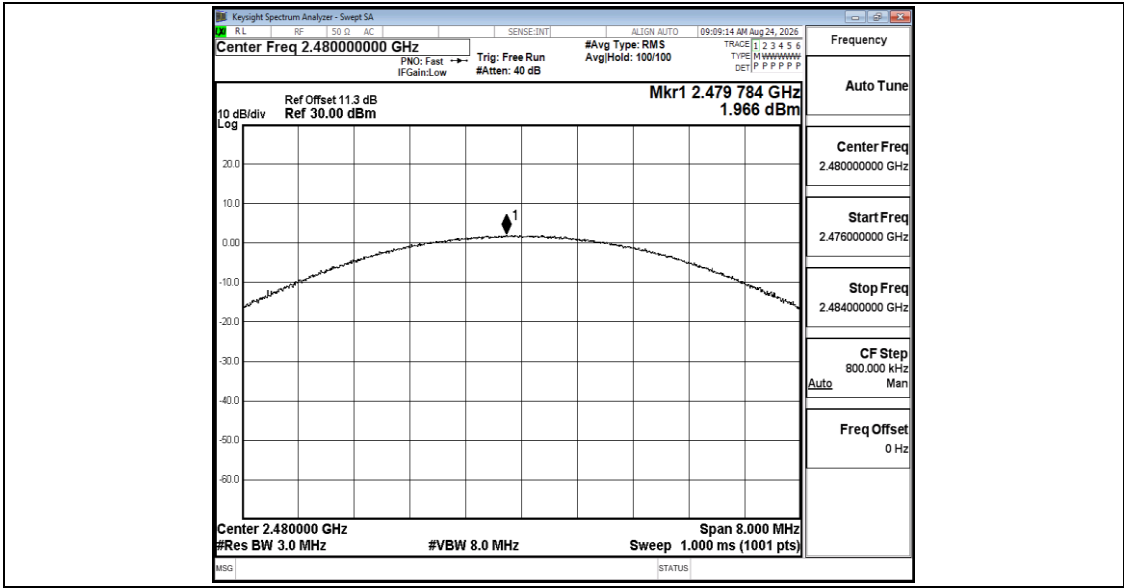
Test Graphs









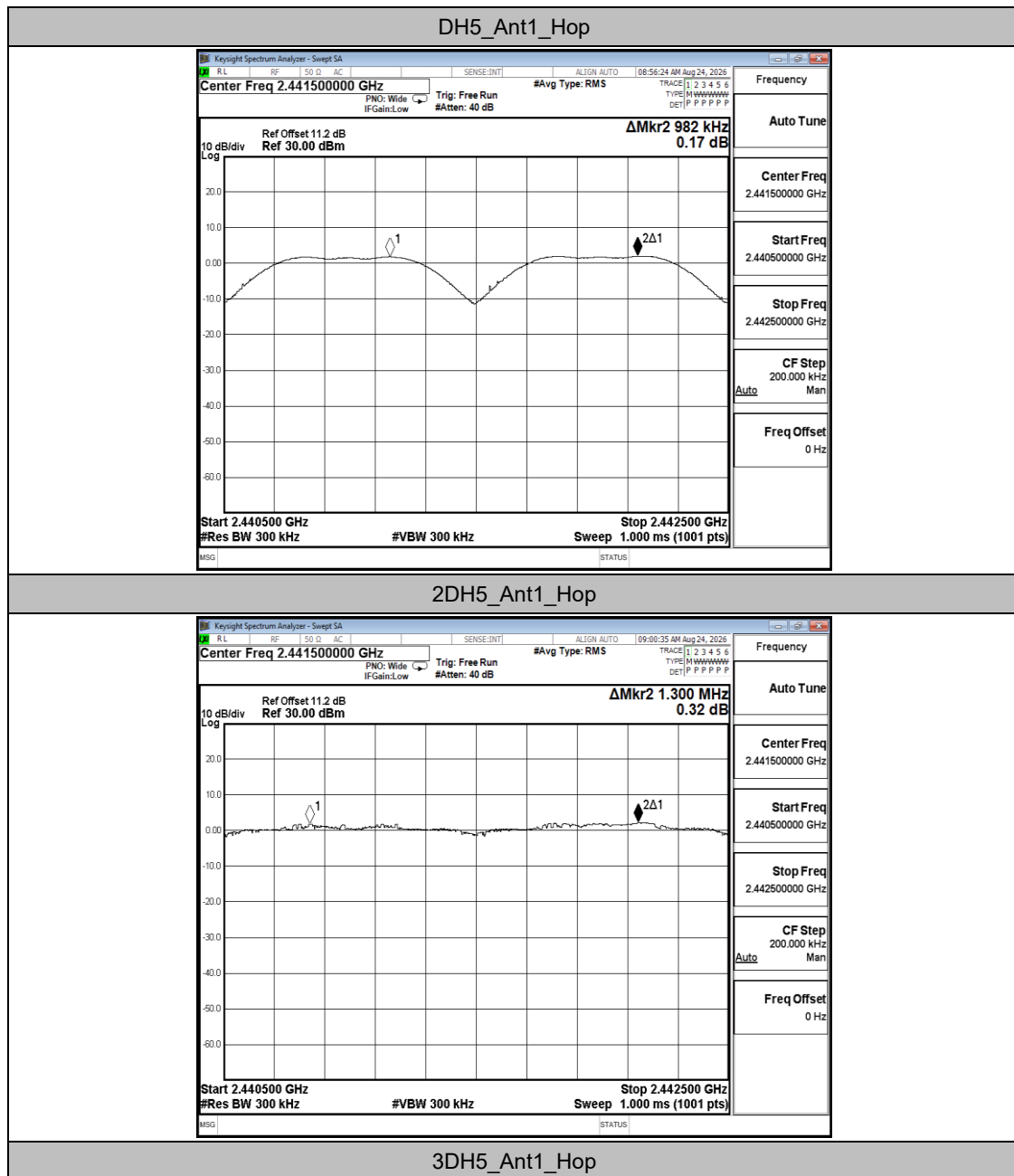


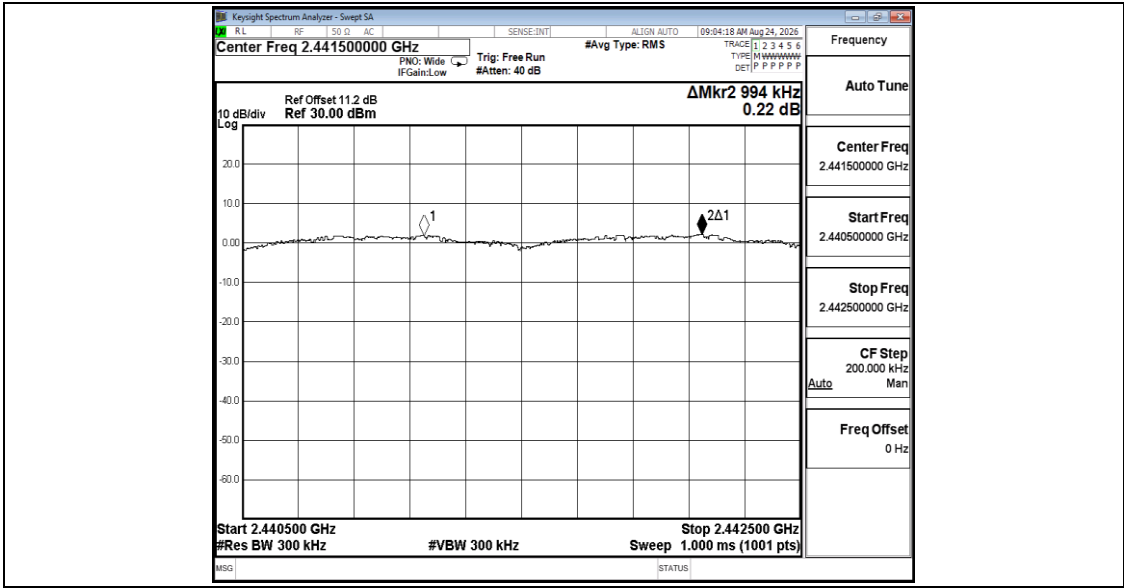
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq (MHz)	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.982	≥0.676	PASS
2DH5	Ant1	Hop	1.3	≥0.876	PASS
3DH5	Ant1	Hop	0.994	≥0.868	PASS

Test Graphs



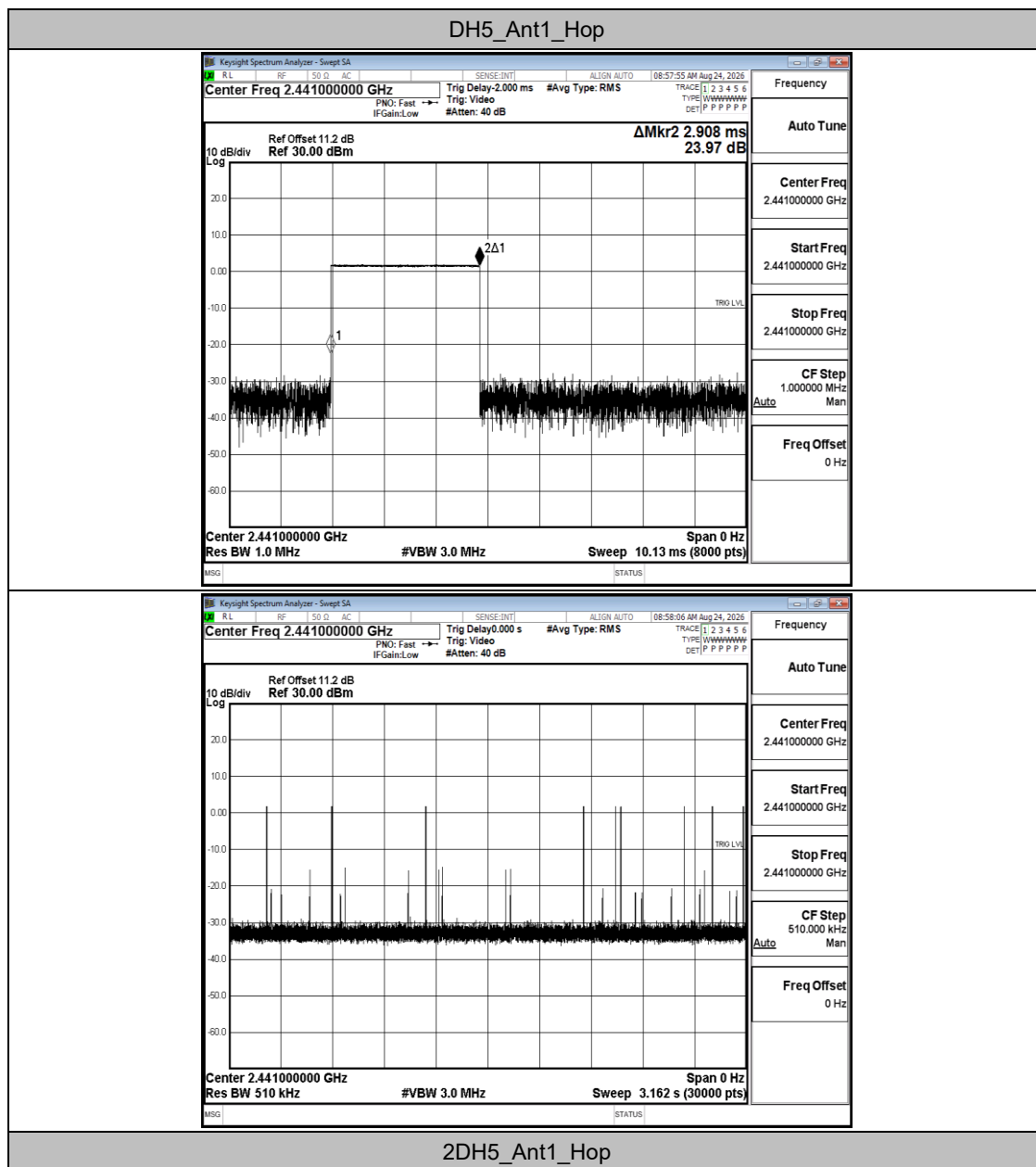


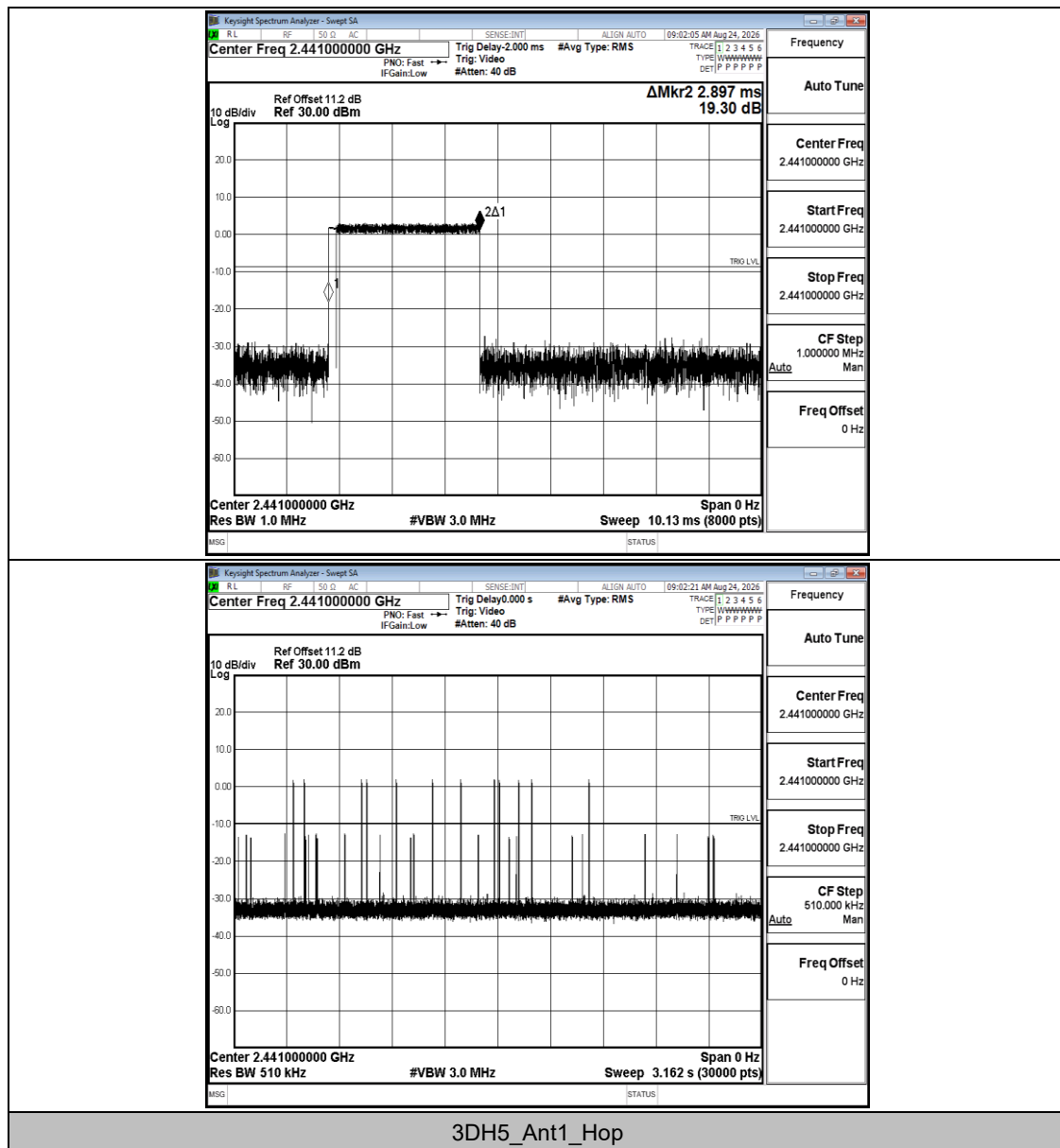
A.4 Time of occupancy

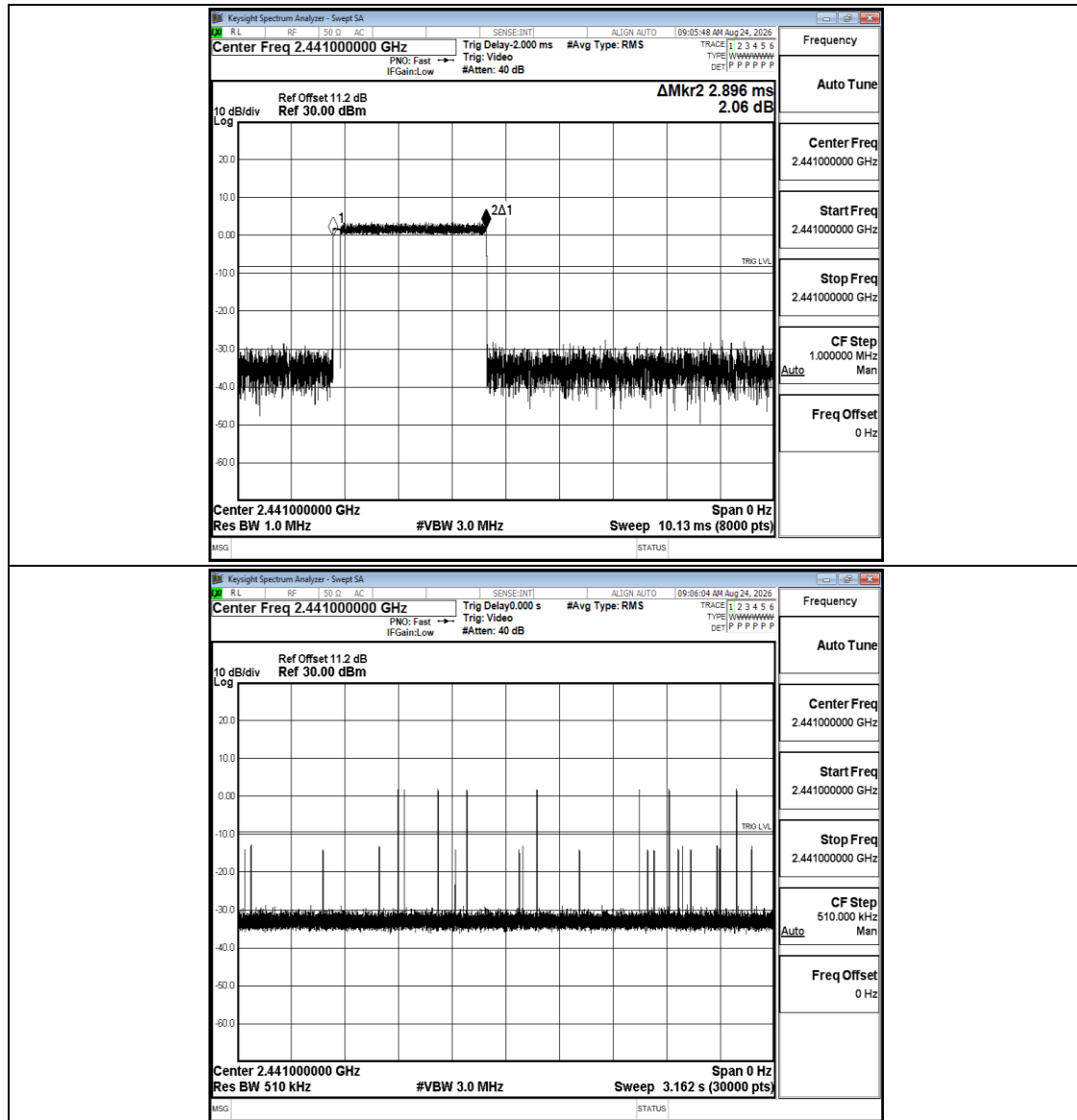
Test Result

TestMode	Antenna	Freq (MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.908	100	0.291	≤0.4	PASS
2DH5	Ant1	Hop	2.897	130	0.377	≤0.4	PASS
3DH5	Ant1	Hop	2.896	90	0.261	≤0.4	PASS

Test Graphs





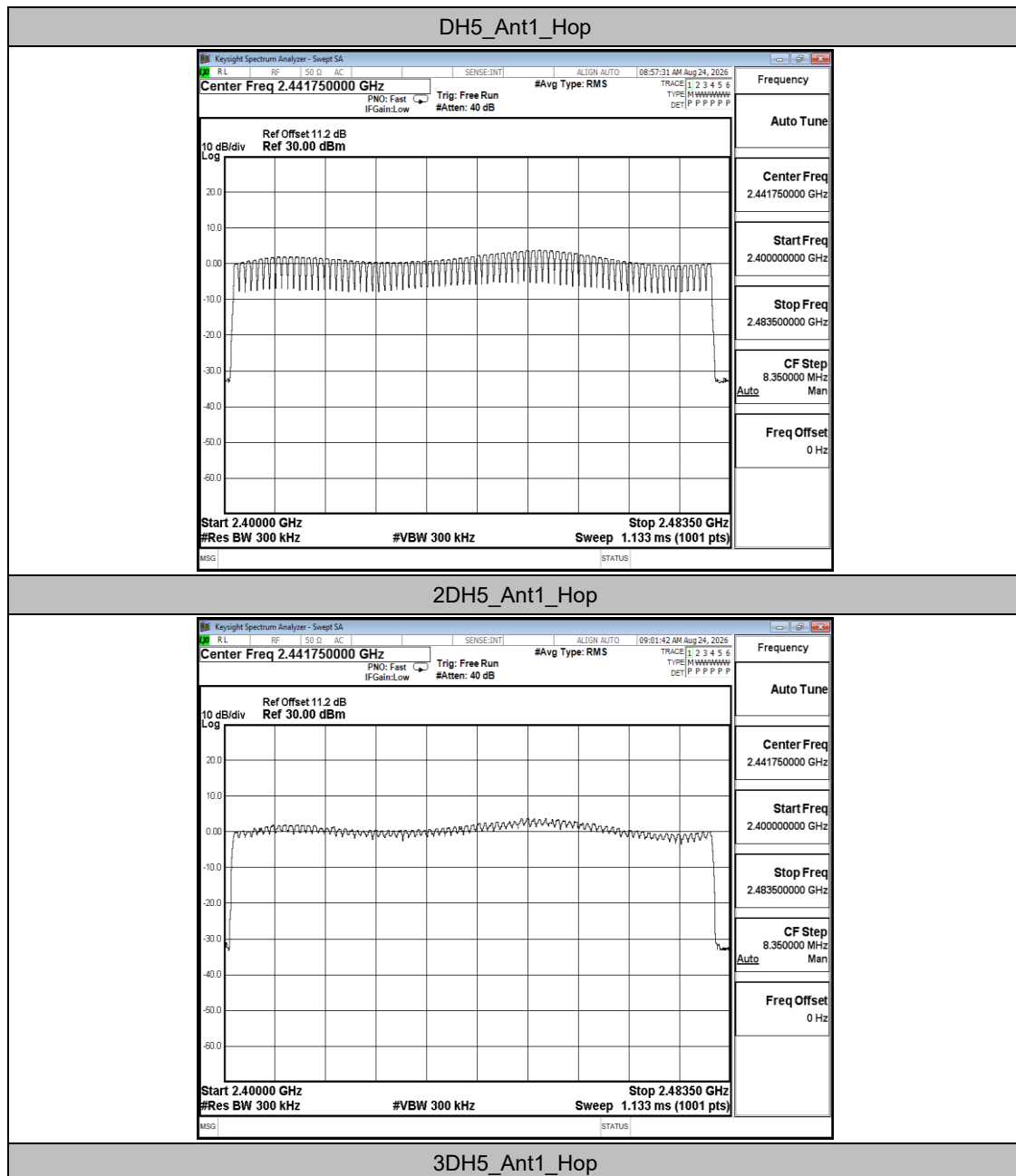


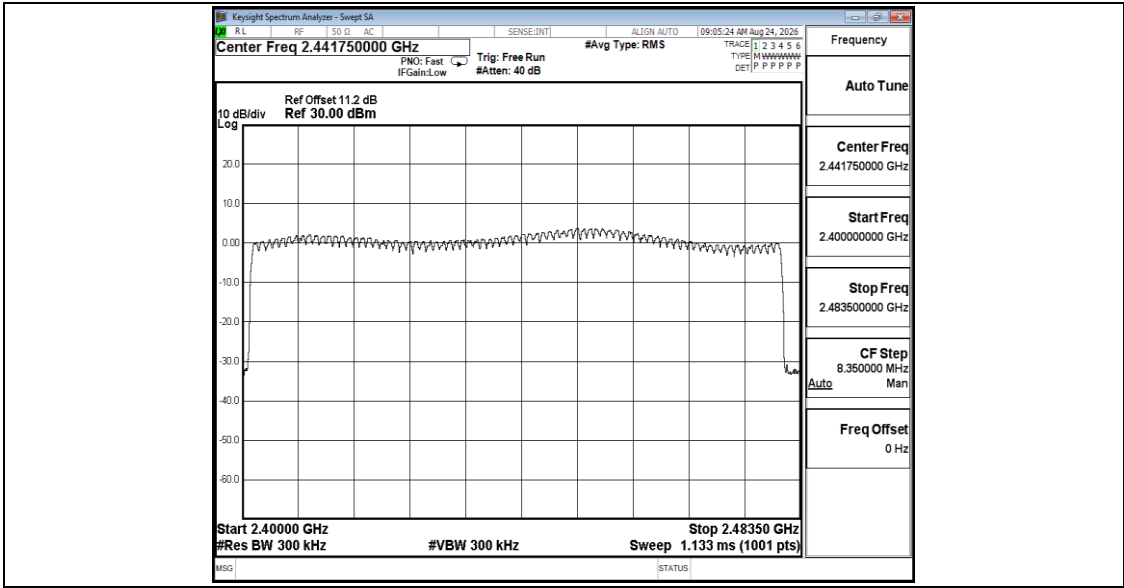
A.5 Number of hopping channels

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



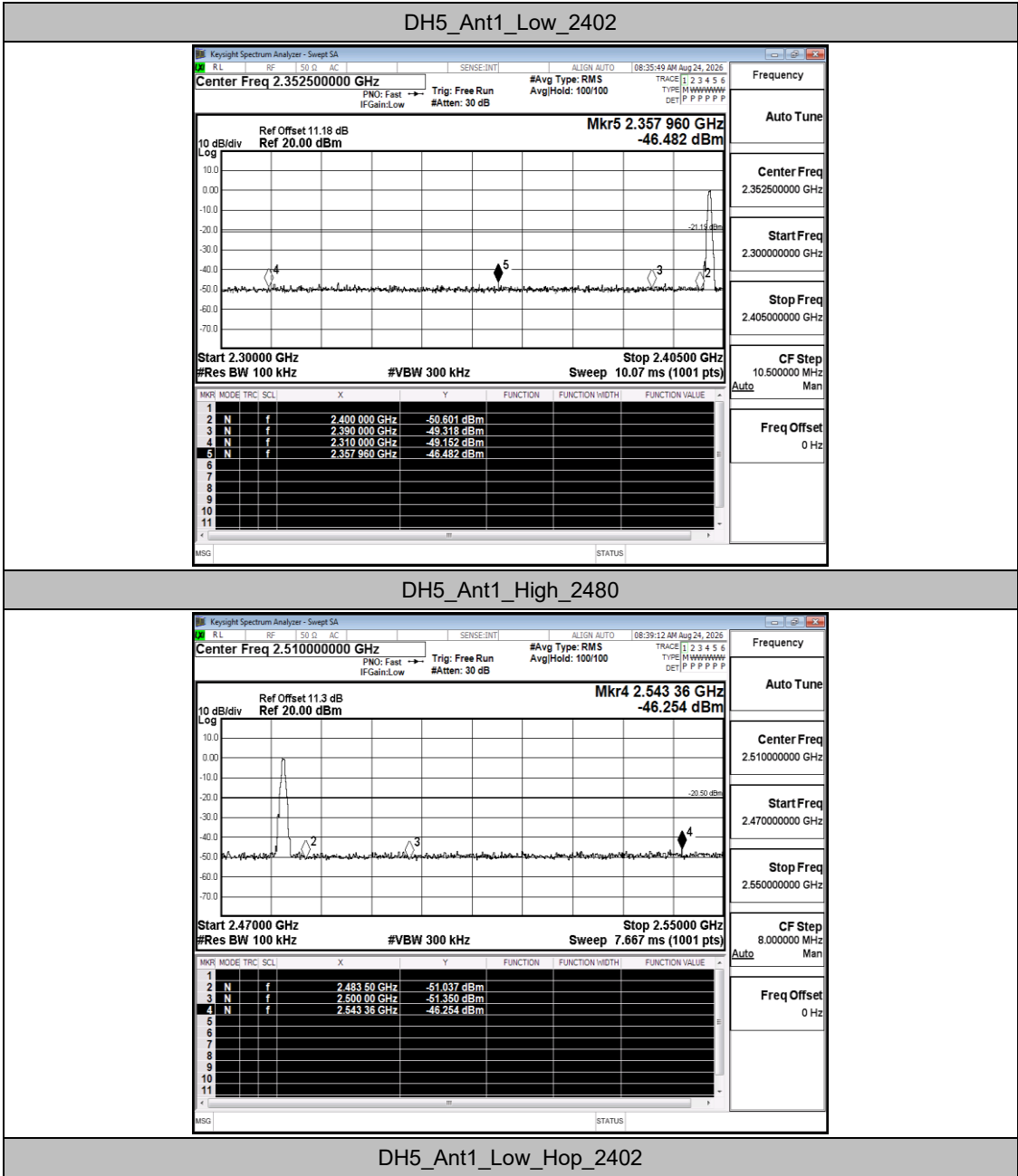


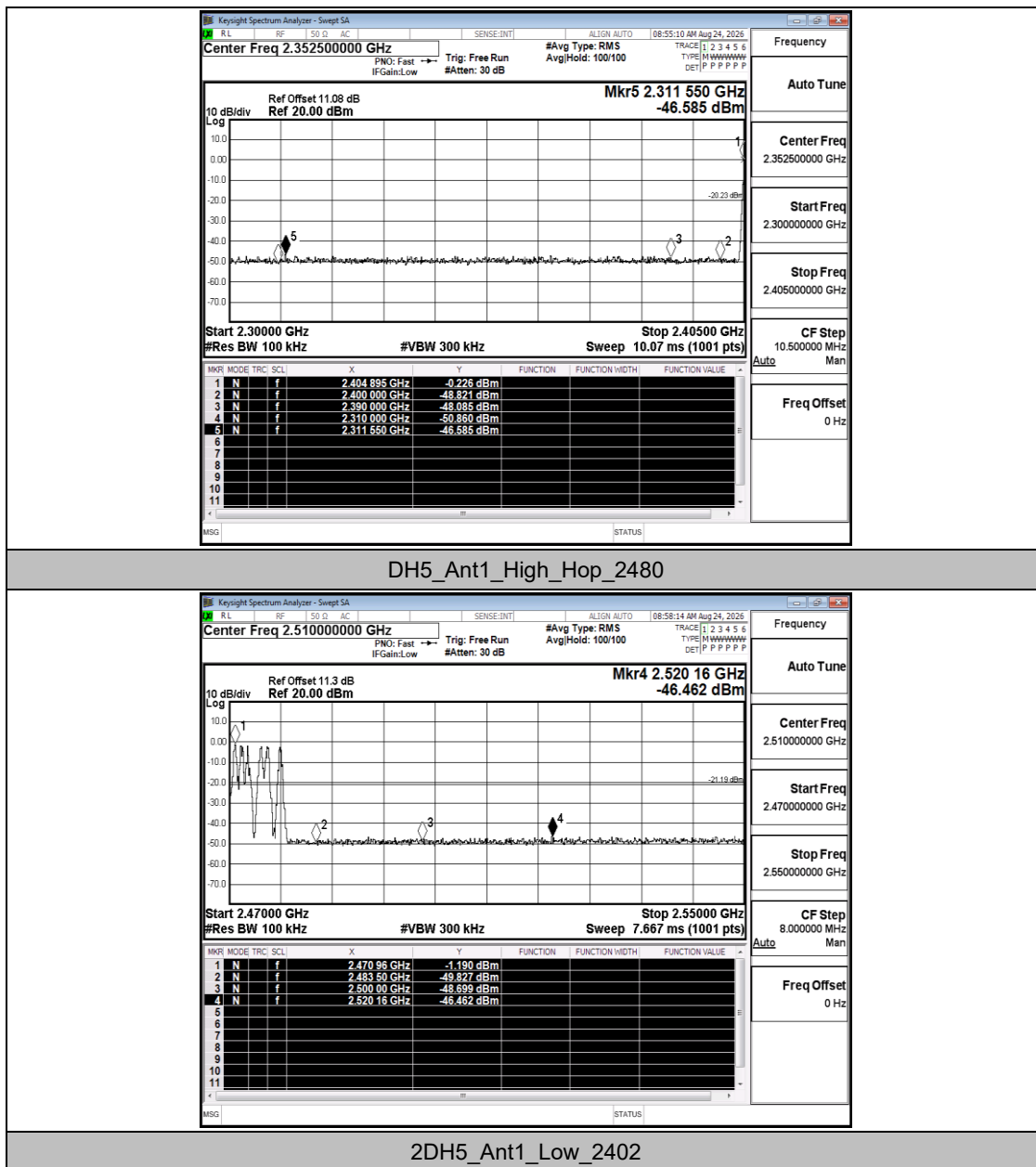
A.6 Band edge measurements

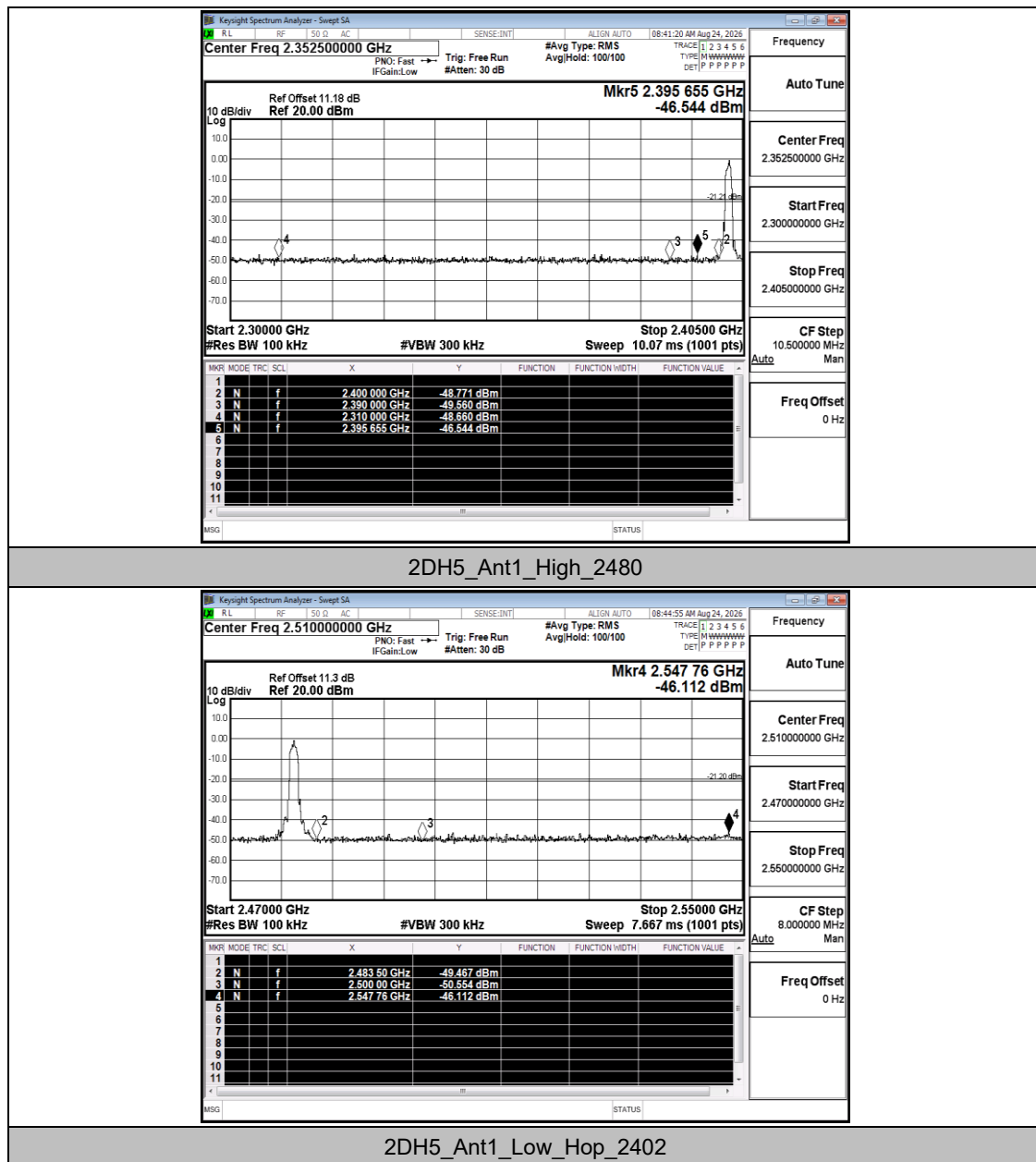
Test Result

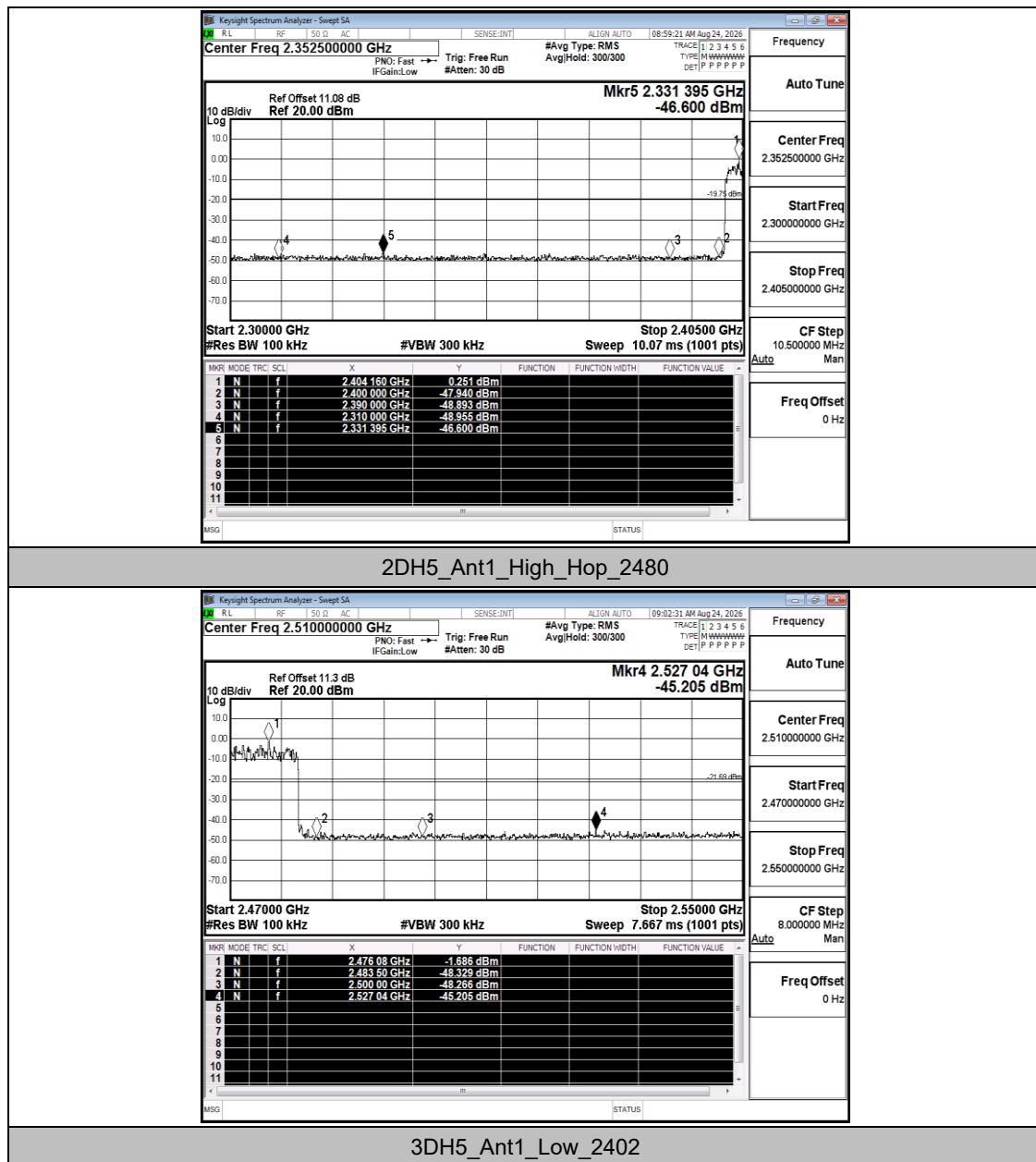
TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.19	-46.48	≤ -21.19	PASS
		High	2480	-0.50	-46.25	≤ -20.5	PASS
		Low	Hop_2402	-0.23	-46.59	≤ -20.23	PASS
		High	Hop_2480	-1.19	-46.46	≤ -21.19	PASS
2DH5	Ant1	Low	2402	-1.21	-46.54	≤ -21.21	PASS
		High	2480	-1.20	-46.11	≤ -21.2	PASS
		Low	Hop_2402	0.25	-46.6	≤ -19.75	PASS
		High	Hop_2480	-1.69	-45.21	≤ -21.69	PASS
3DH5	Ant1	Low	2402	-0.78	-46.44	≤ -20.78	PASS
		High	2480	-0.65	-45.63	≤ -20.65	PASS
		Low	Hop_2402	-4.49	-46.68	≤ -24.49	PASS
		High	Hop_2480	-0.74	-45.02	≤ -20.74	PASS

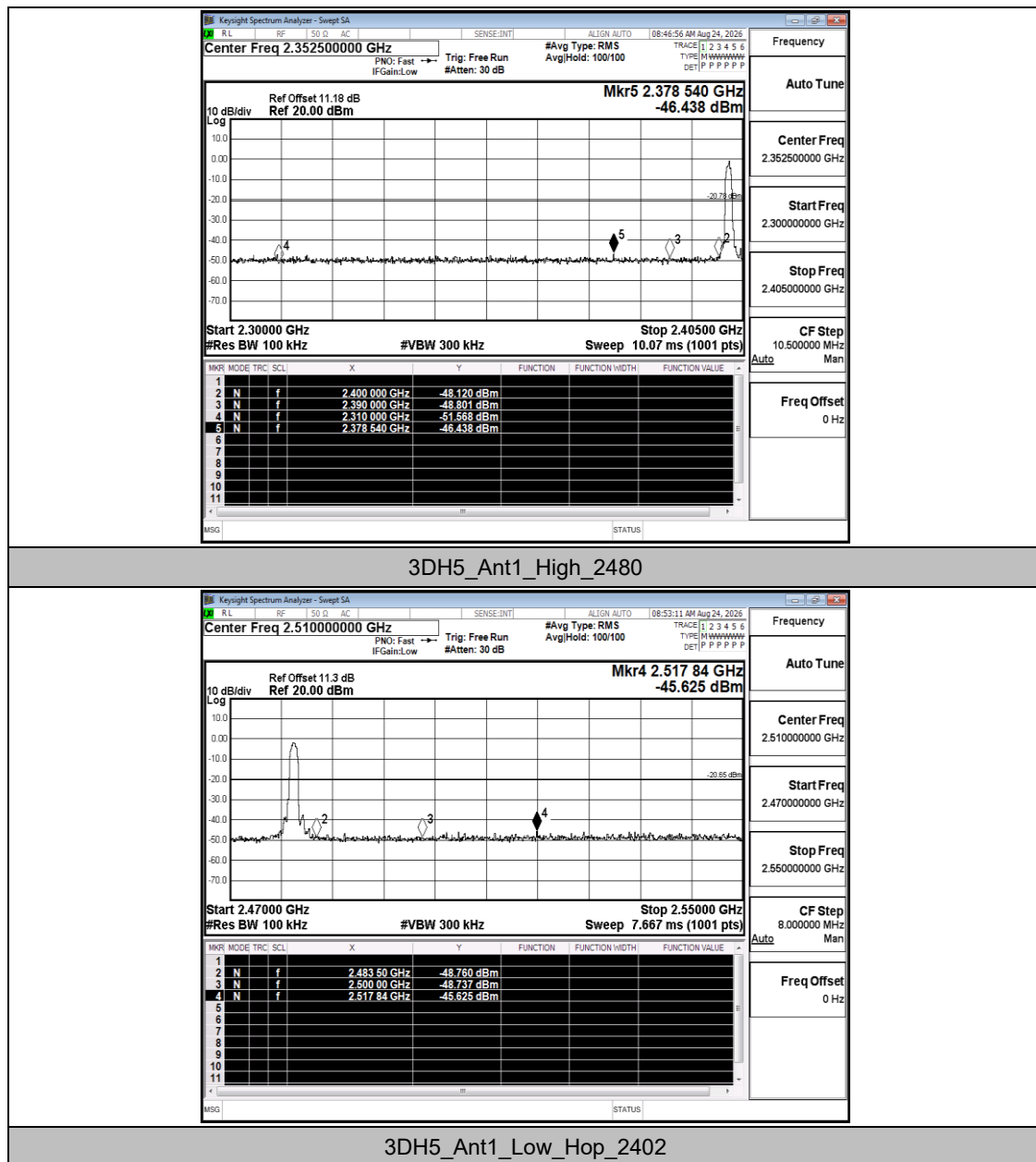
Test Graphs

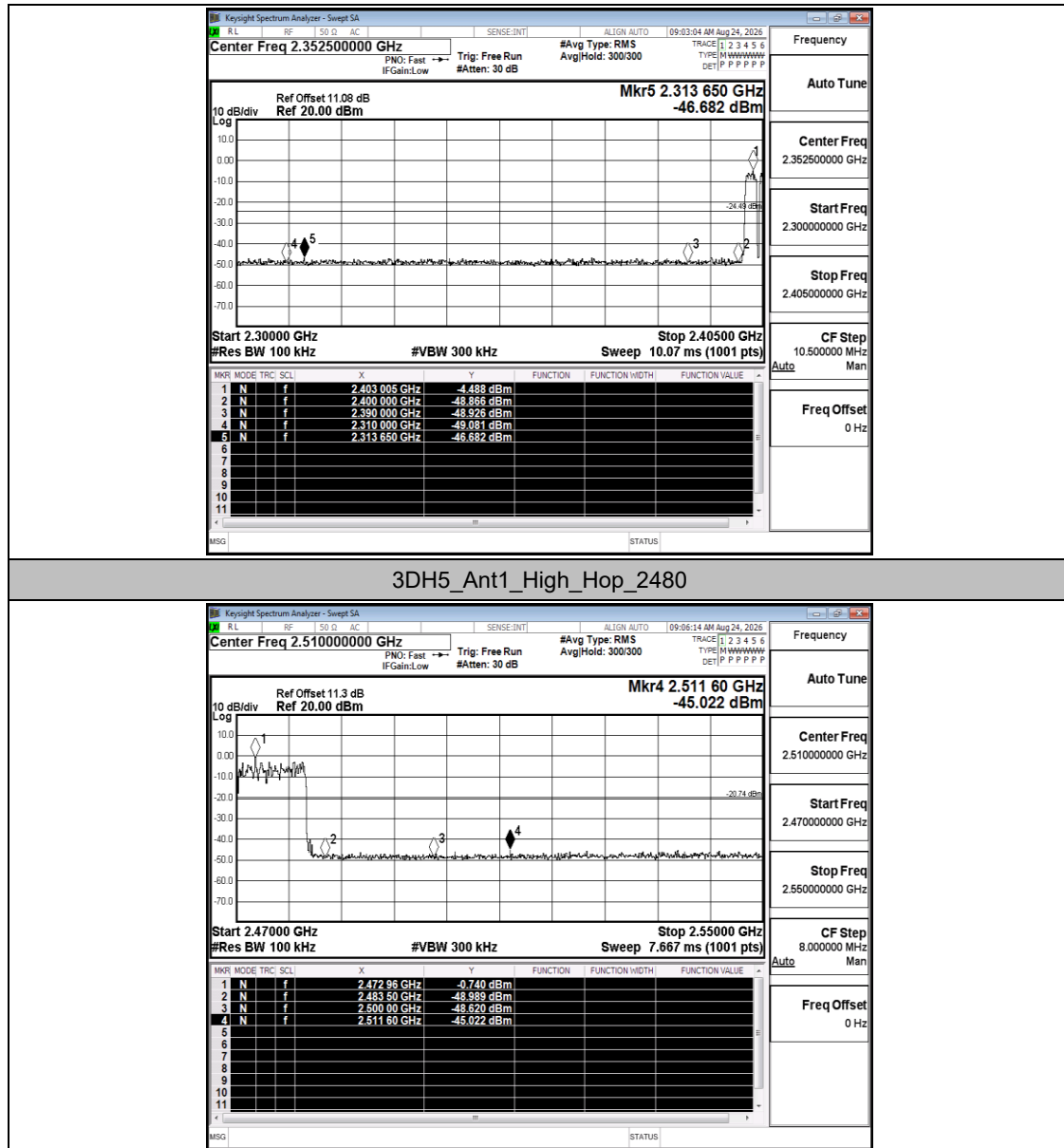












A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.51	-0.51	---	PASS
			30~1000	-0.51	-68.23	≤-20.51	PASS
			1000~26500	-0.51	-46.11	≤-20.51	PASS
		2441	Reference	1.36	1.36	---	PASS
			30~1000	1.36	-66.92	≤-18.64	PASS
			1000~26500	1.36	-45.65	≤-18.64	PASS
		2480	Reference	-0.46	-0.46	---	PASS
			30~1000	-0.46	-65.85	≤-20.46	PASS
			1000~26500	-0.46	-45.32	≤-20.46	PASS
2DH5	Ant1	2402	Reference	-0.59	-0.59	---	PASS
			30~1000	-0.59	-69.77	≤-20.59	PASS
			1000~26500	-0.59	-45.28	≤-20.59	PASS
		2441	Reference	1.25	1.25	---	PASS
			30~1000	1.25	-68.47	≤-18.75	PASS
			1000~26500	1.25	-45.09	≤-18.75	PASS
		2480	Reference	-0.57	-0.57	---	PASS
			30~1000	-0.57	-62.87	≤-20.57	PASS
			1000~26500	-0.57	-45.32	≤-20.57	PASS
3DH5	Ant1	2402	Reference	-0.54	-0.54	---	PASS
			30~1000	-0.54	-68.18	≤-20.54	PASS
			1000~26500	-0.54	-44.82	≤-20.54	PASS
		2441	Reference	1.74	1.74	---	PASS
			30~1000	1.74	-67.21	≤-18.26	PASS
			1000~26500	1.74	-45.45	≤-18.26	PASS
		2480	Reference	-0.06	-0.06	---	PASS
			30~1000	-0.06	-68.94	≤-20.06	PASS
			1000~26500	-0.06	-44.17	≤-20.06	PASS

Test Graphs

