

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: SWITCH Bluetooth Controller

Test Model: SZ-932B

Environmental Conditions

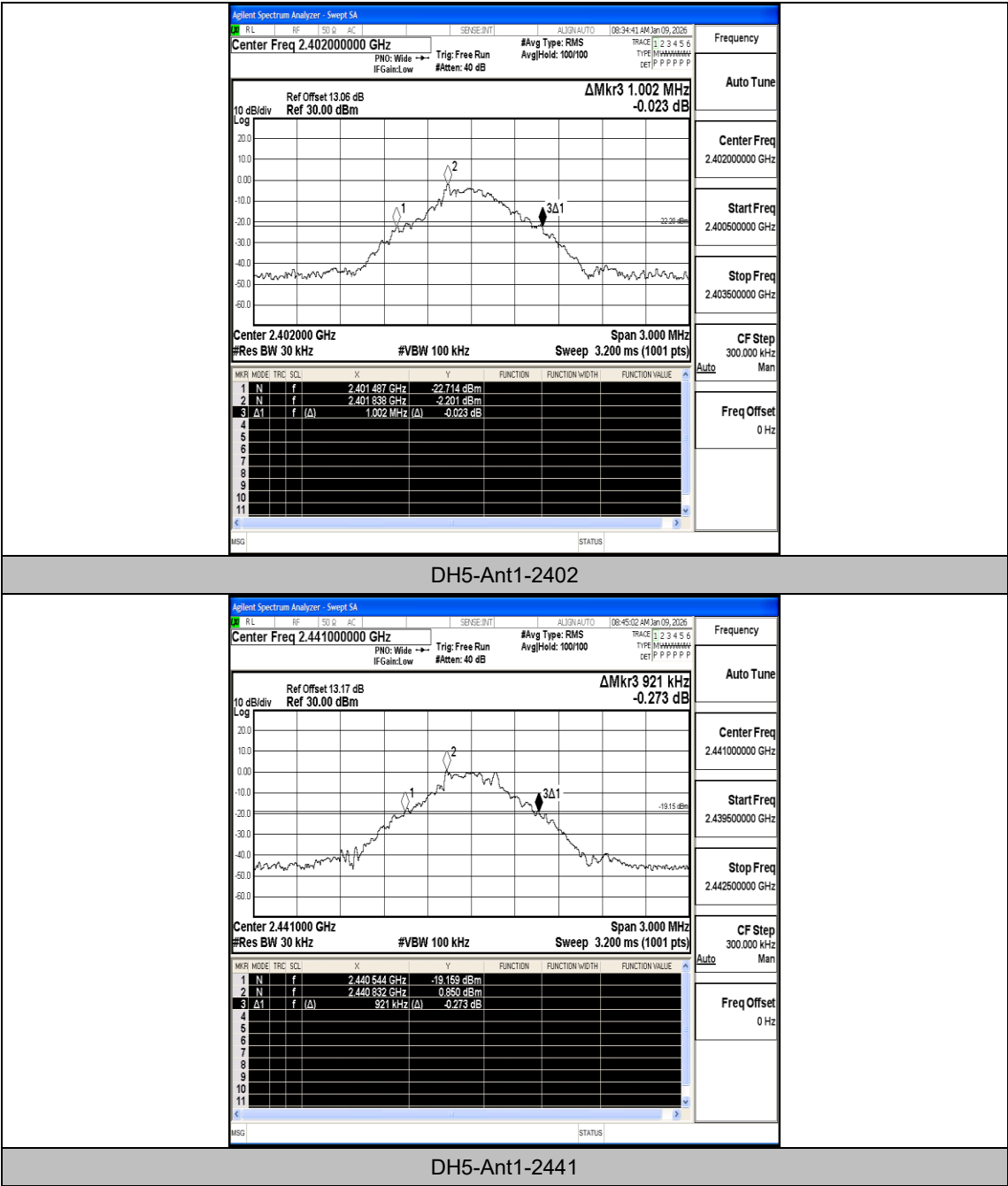
Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	zhao xing hai
Supervised by:	Fengliu Tang

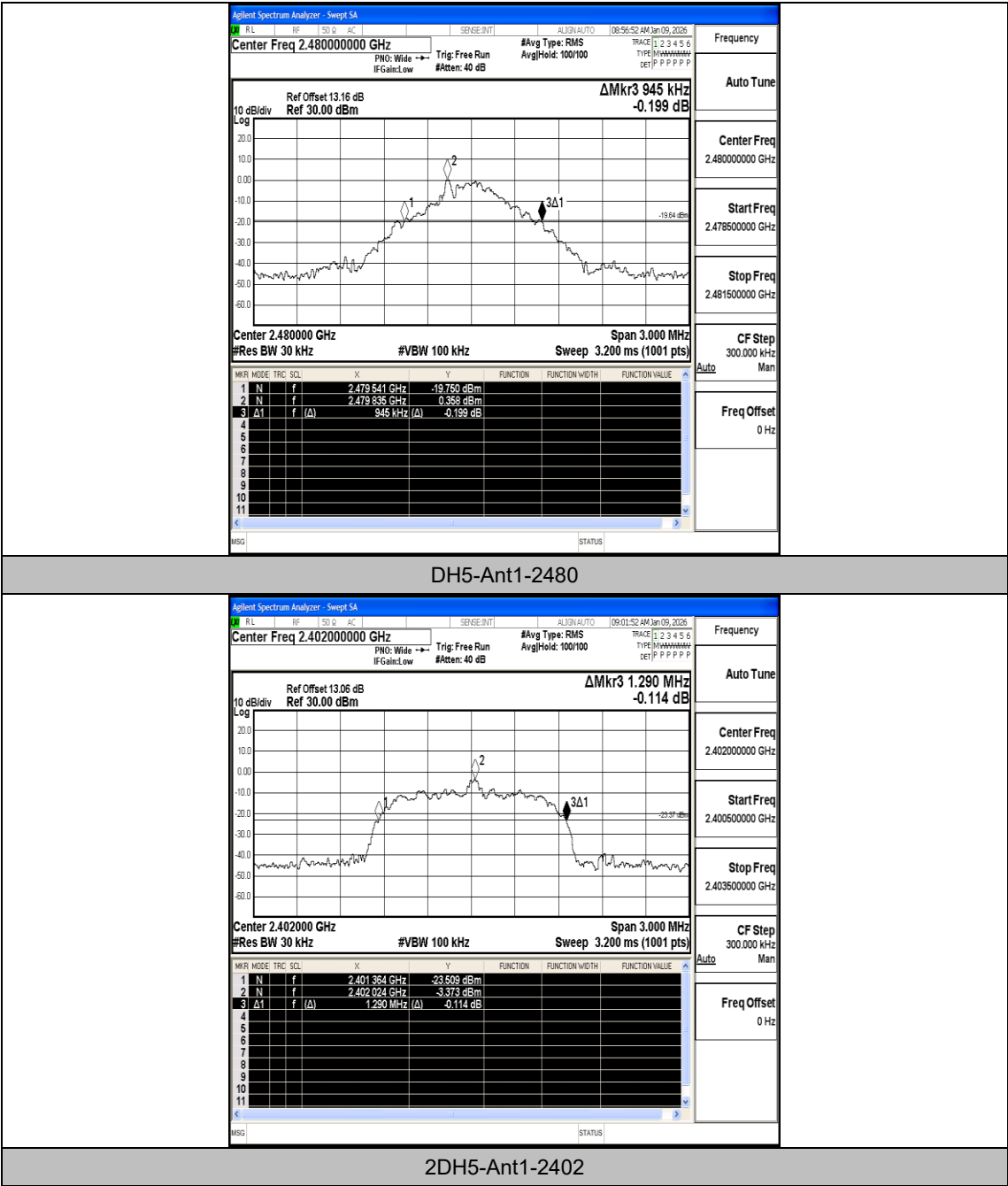
A.1 20dB Emission Bandwidth

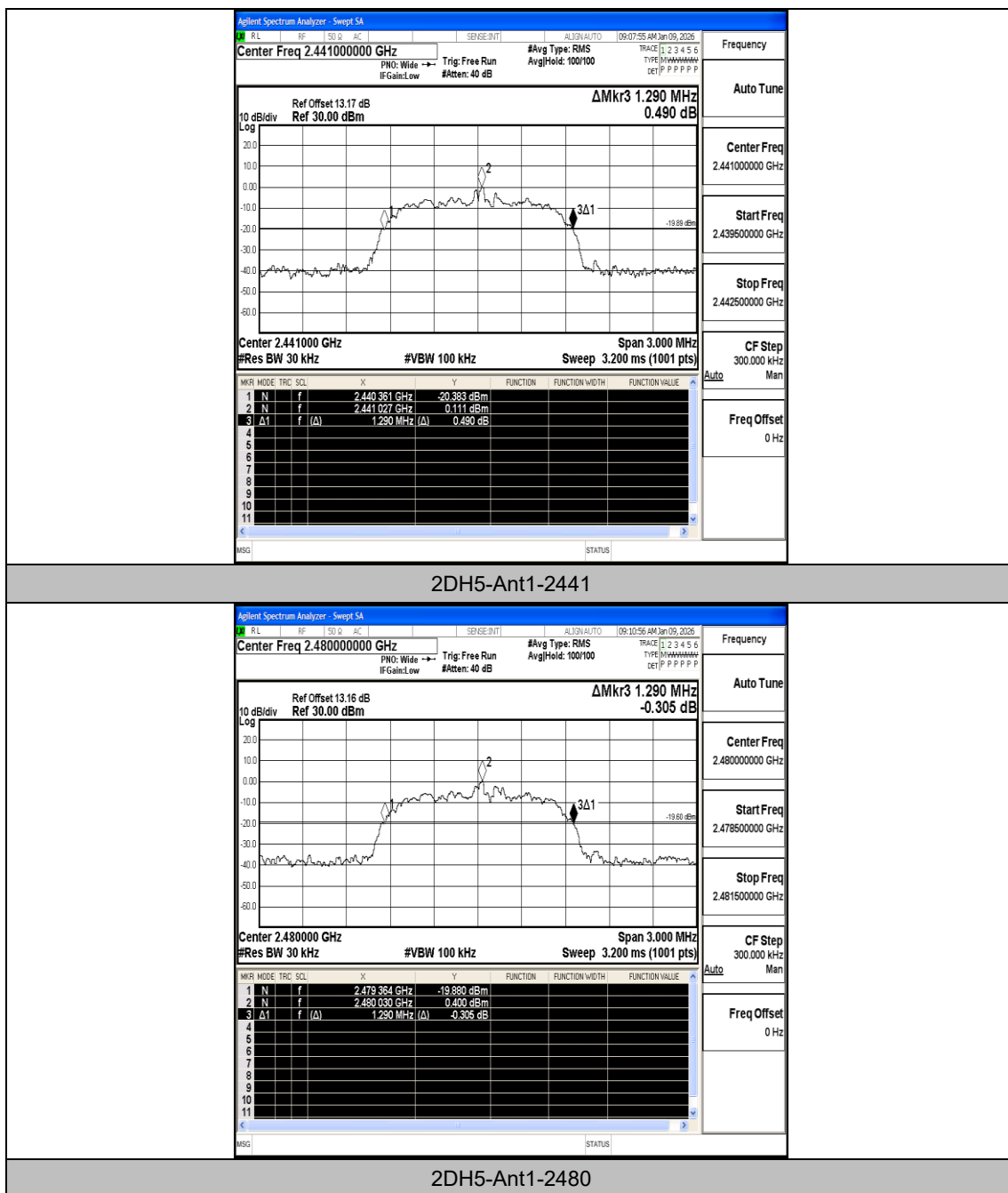
Test Result

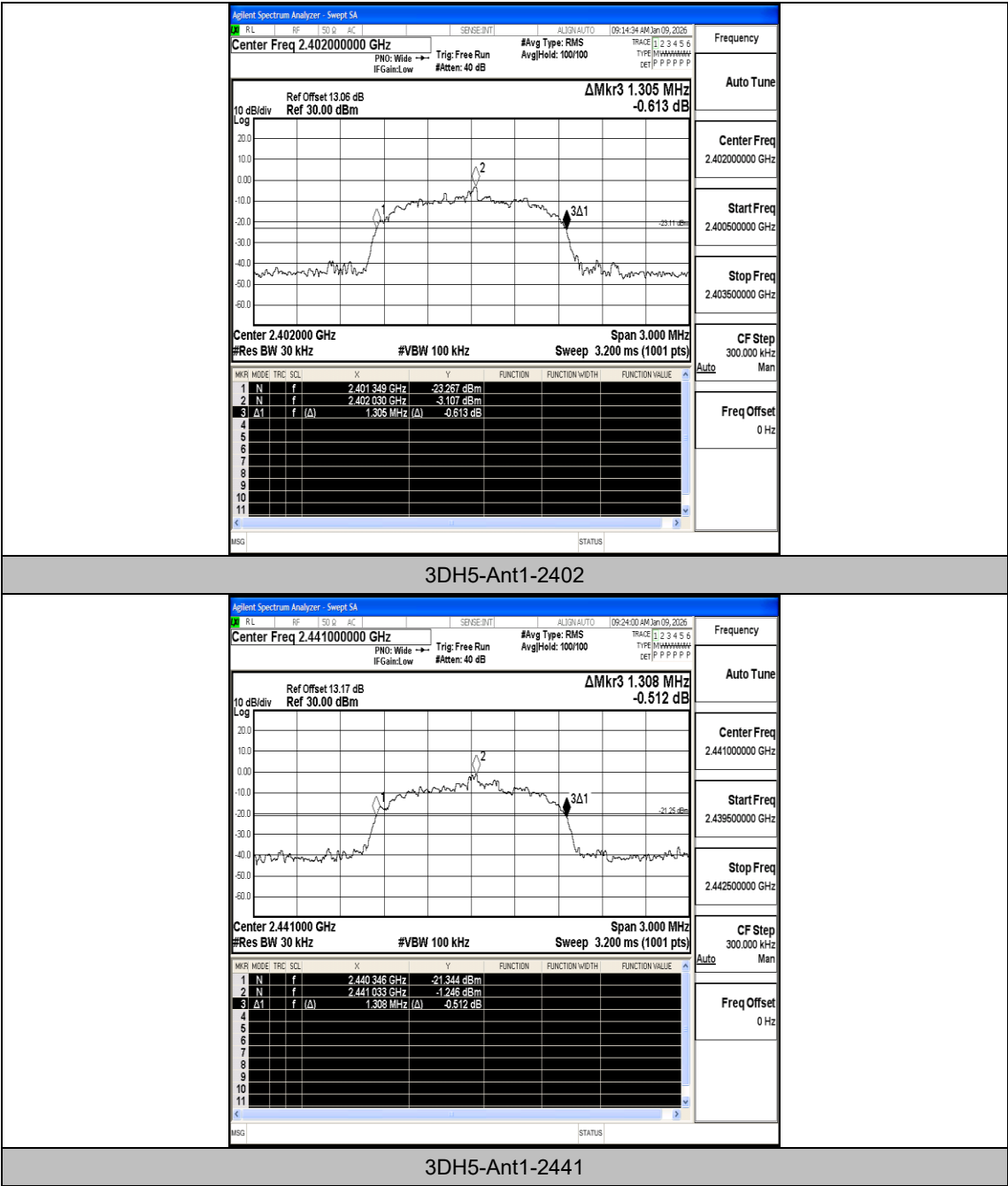
TestMode	Antenna	Frequency [MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.002	2401.487	2402.489	---	---
DH5	Ant1	2441	0.921	2440.544	2441.465	---	---
DH5	Ant1	2480	0.945	2479.541	2480.486	---	---
2DH5	Ant1	2402	1.290	2401.364	2402.654	---	---
2DH5	Ant1	2441	1.290	2440.361	2441.651	---	---
2DH5	Ant1	2480	1.290	2479.364	2480.654	---	---
3DH5	Ant1	2402	1.305	2401.349	2402.654	---	---
3DH5	Ant1	2441	1.308	2440.346	2441.654	---	---
3DH5	Ant1	2480	1.308	2479.343	2480.651	---	---

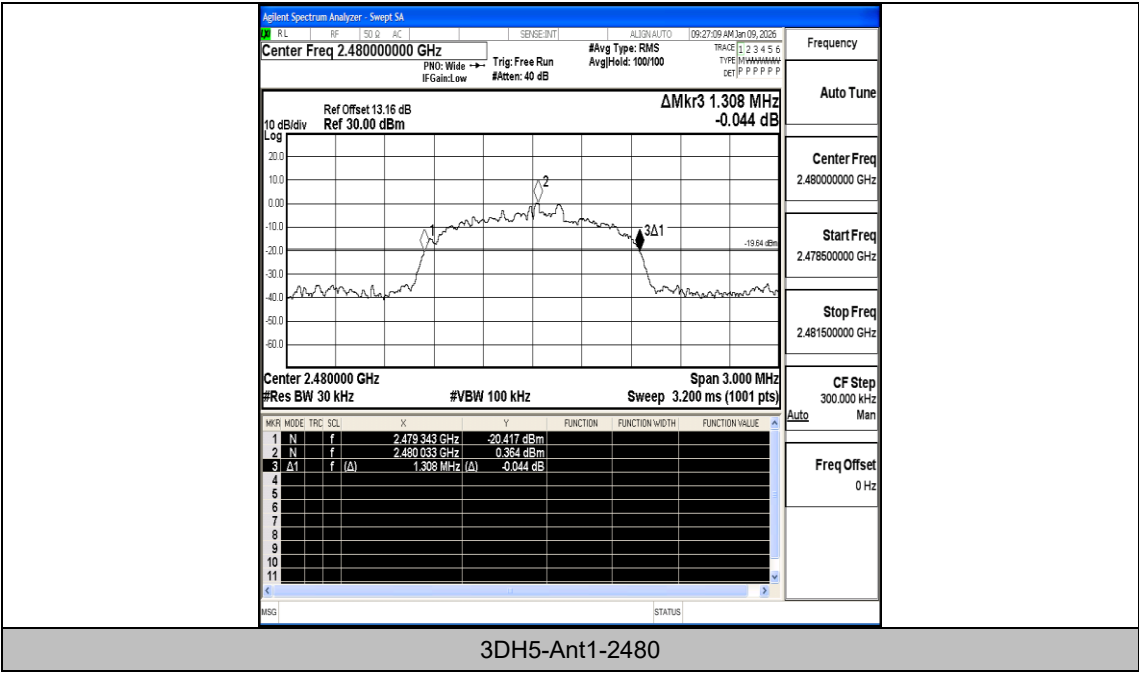
Test Graphs









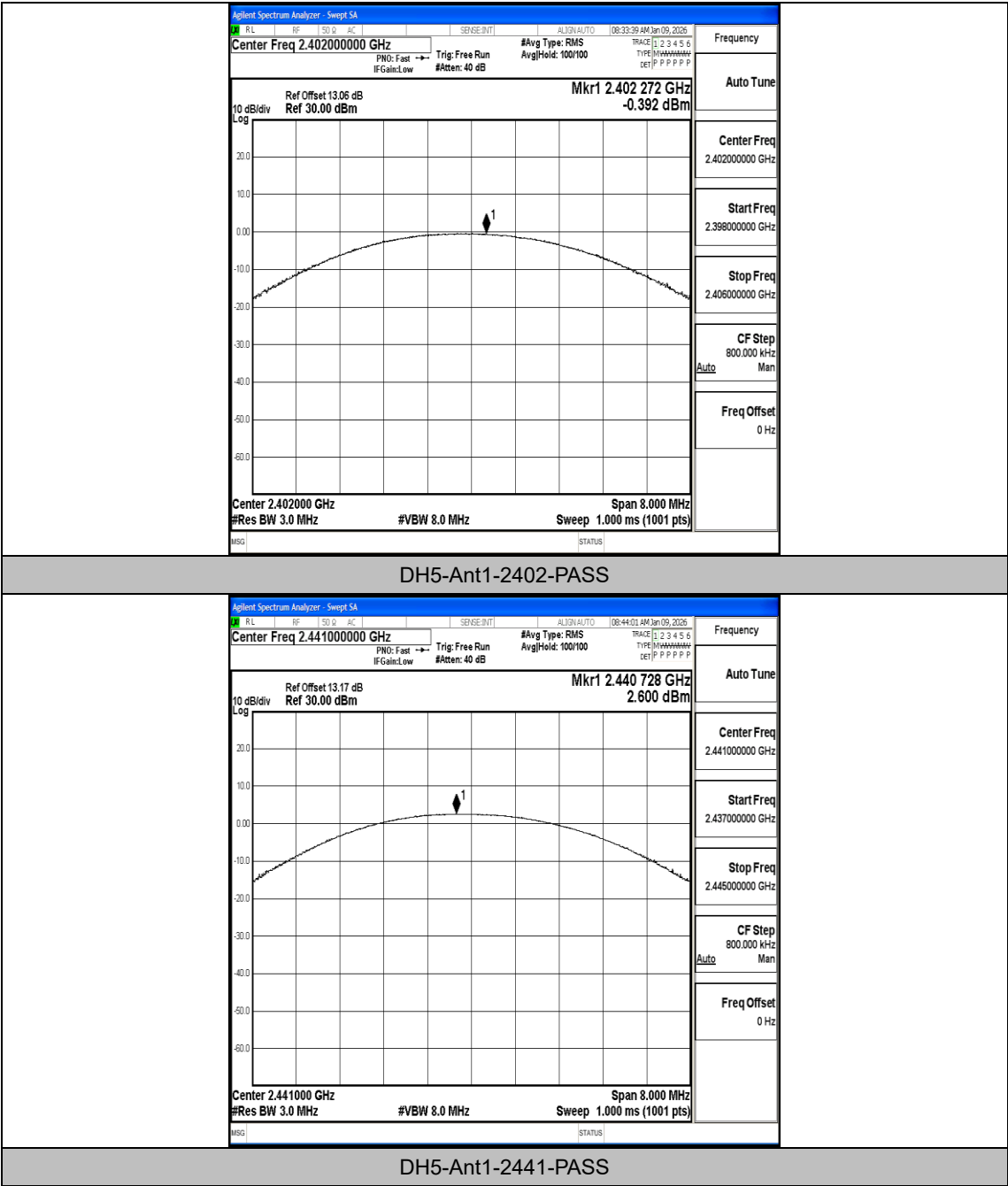


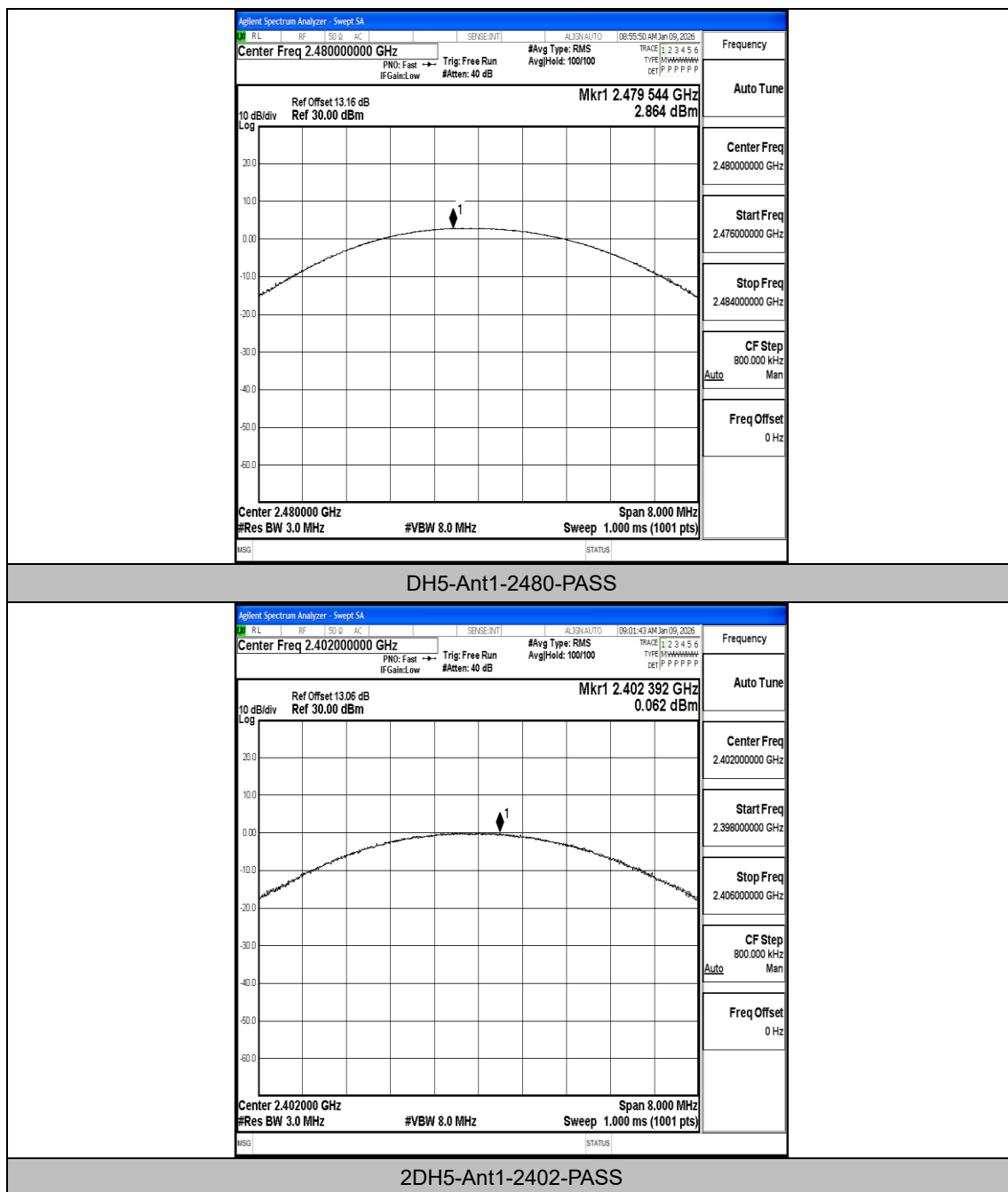
A.2 Maximum Peak conducted output power

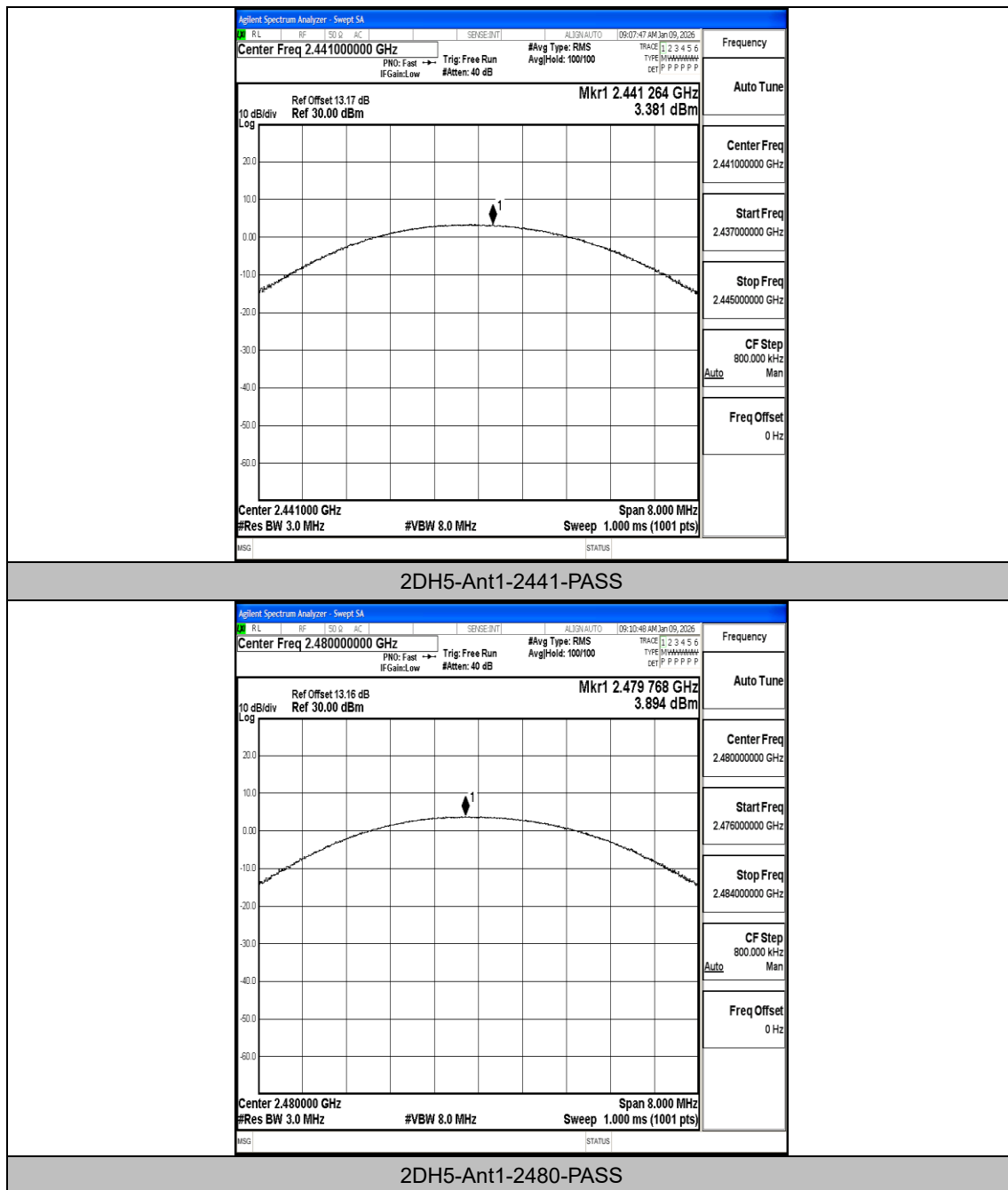
Test Result Peak

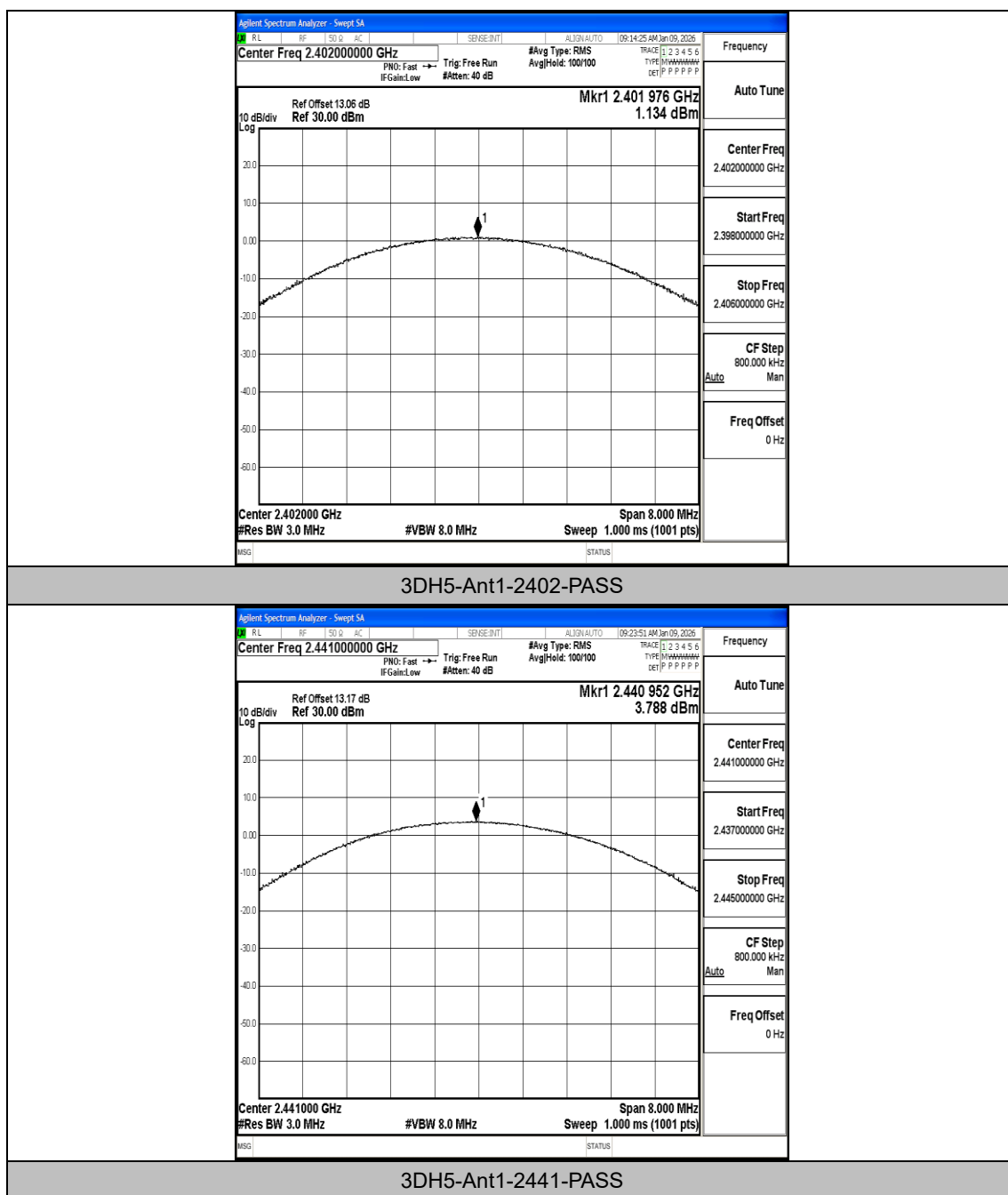
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.39	≤30	PASS
DH5	Ant1	2441	2.60	≤20.97	PASS
DH5	Ant1	2480	2.86	≤20.97	PASS
2DH5	Ant1	2402	0.06	≤30	PASS
2DH5	Ant1	2441	3.38	≤20.97	PASS
2DH5	Ant1	2480	3.89	≤20.97	PASS
3DH5	Ant1	2402	1.13	≤30	PASS
3DH5	Ant1	2441	3.79	≤20.97	PASS
3DH5	Ant1	2480	3.76	≤20.97	PASS

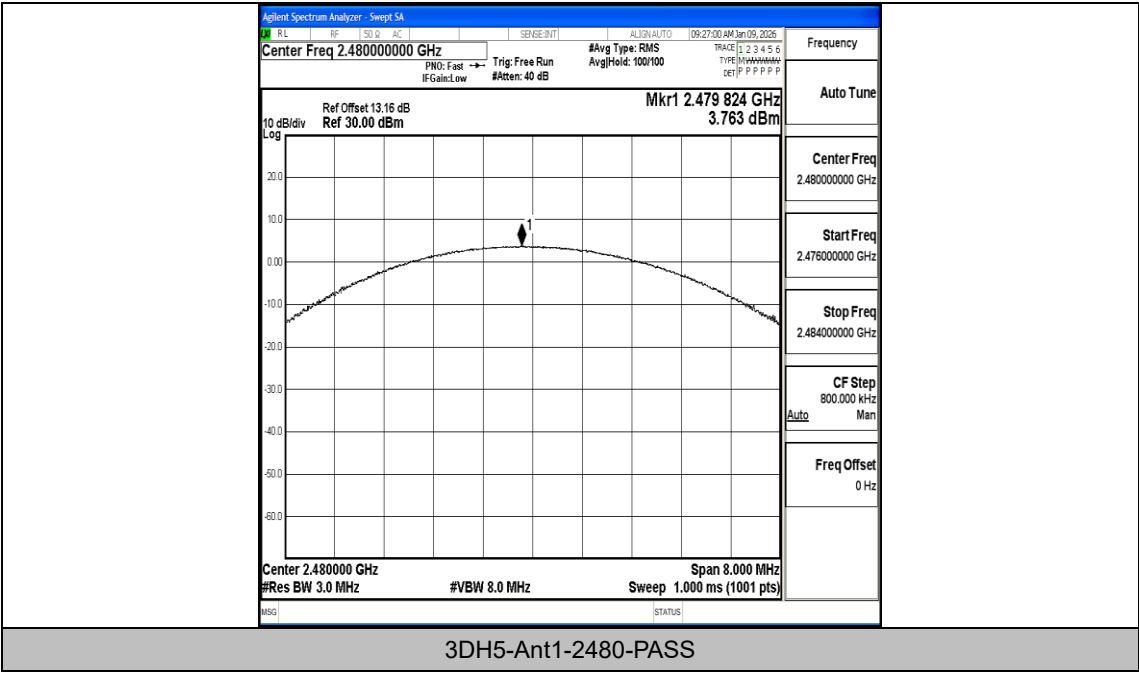
Test Graphs









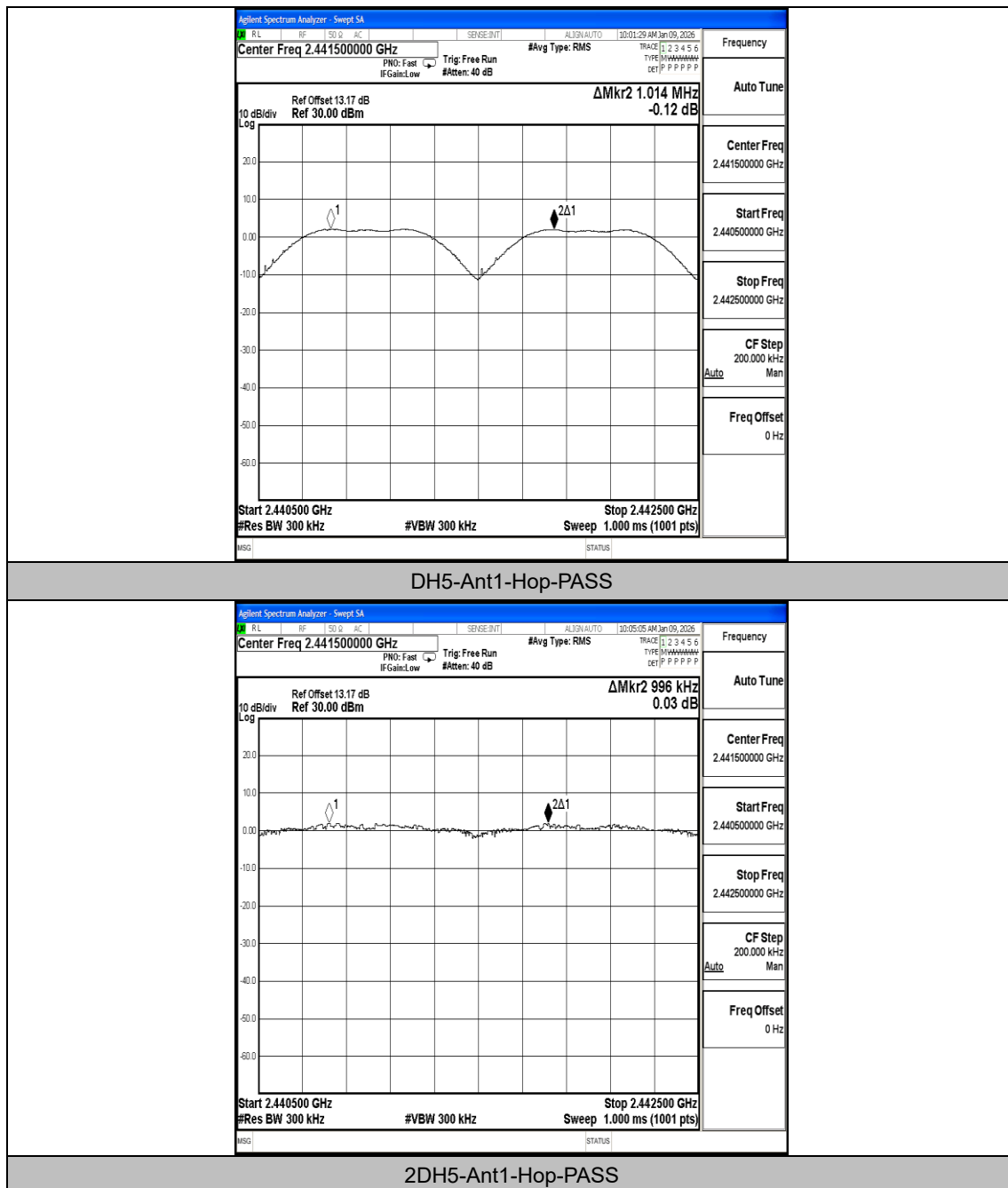


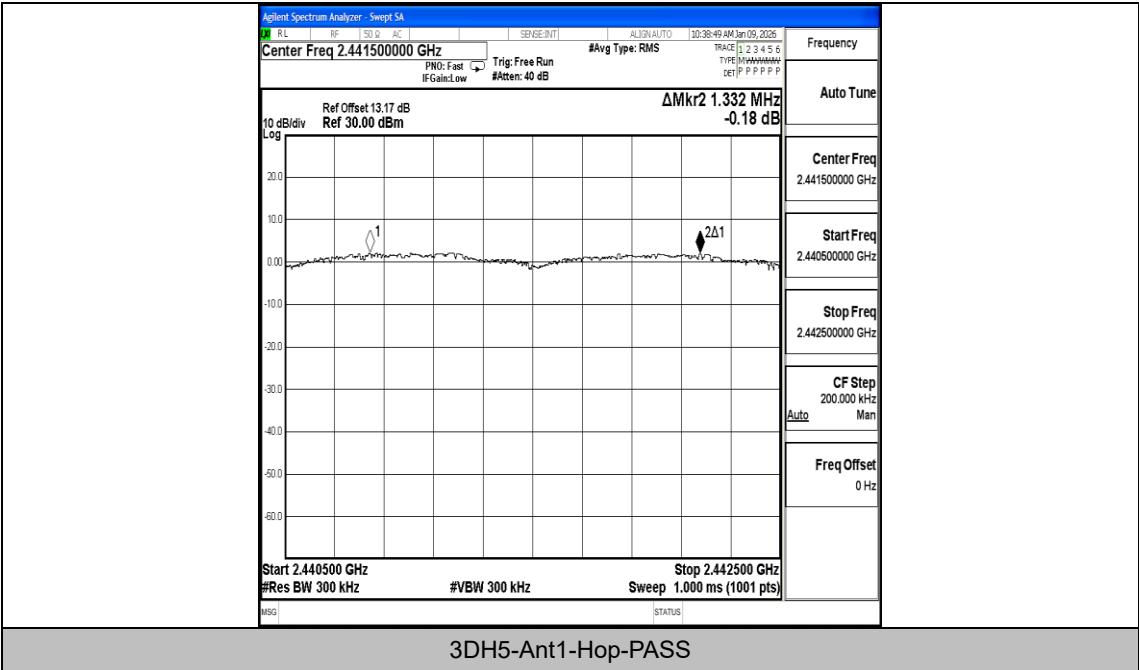
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.014	≥ 1.002	PASS
2DH5	Ant1	Hop	0.996	≥ 0.860	PASS
3DH5	Ant1	Hop	1.332	≥ 1.308	PASS

Test Graphs



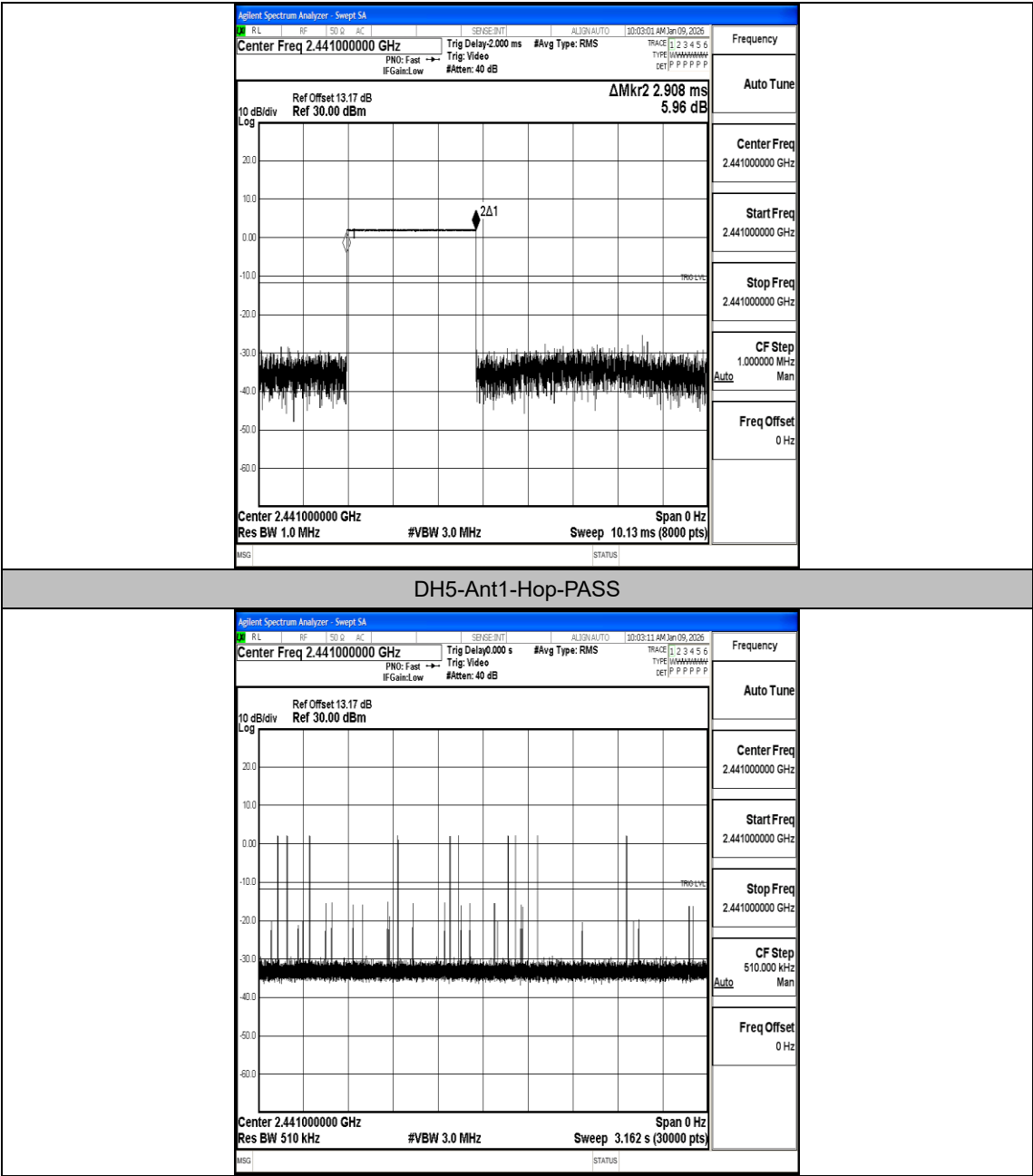


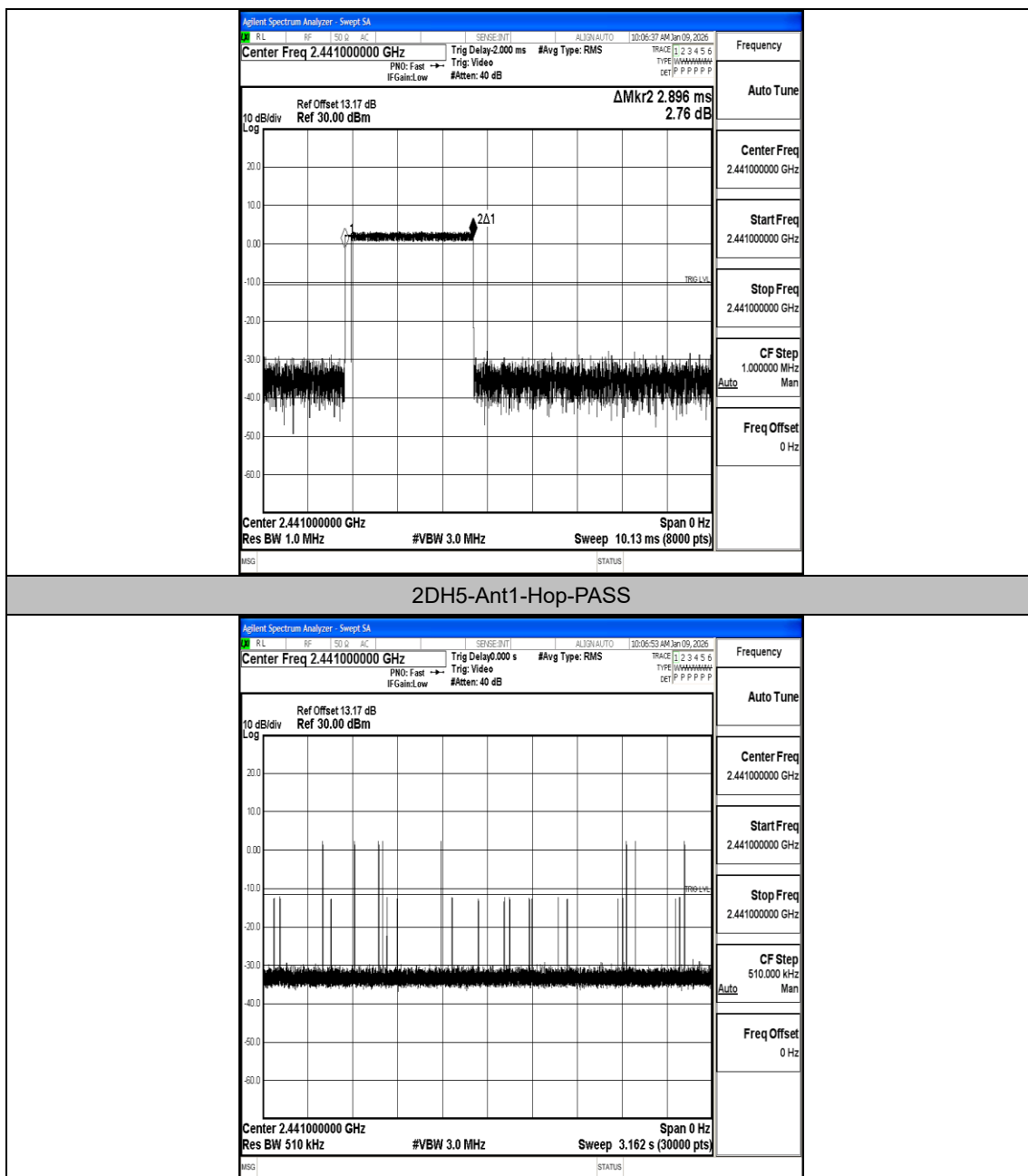
A.4 Time of occupancy

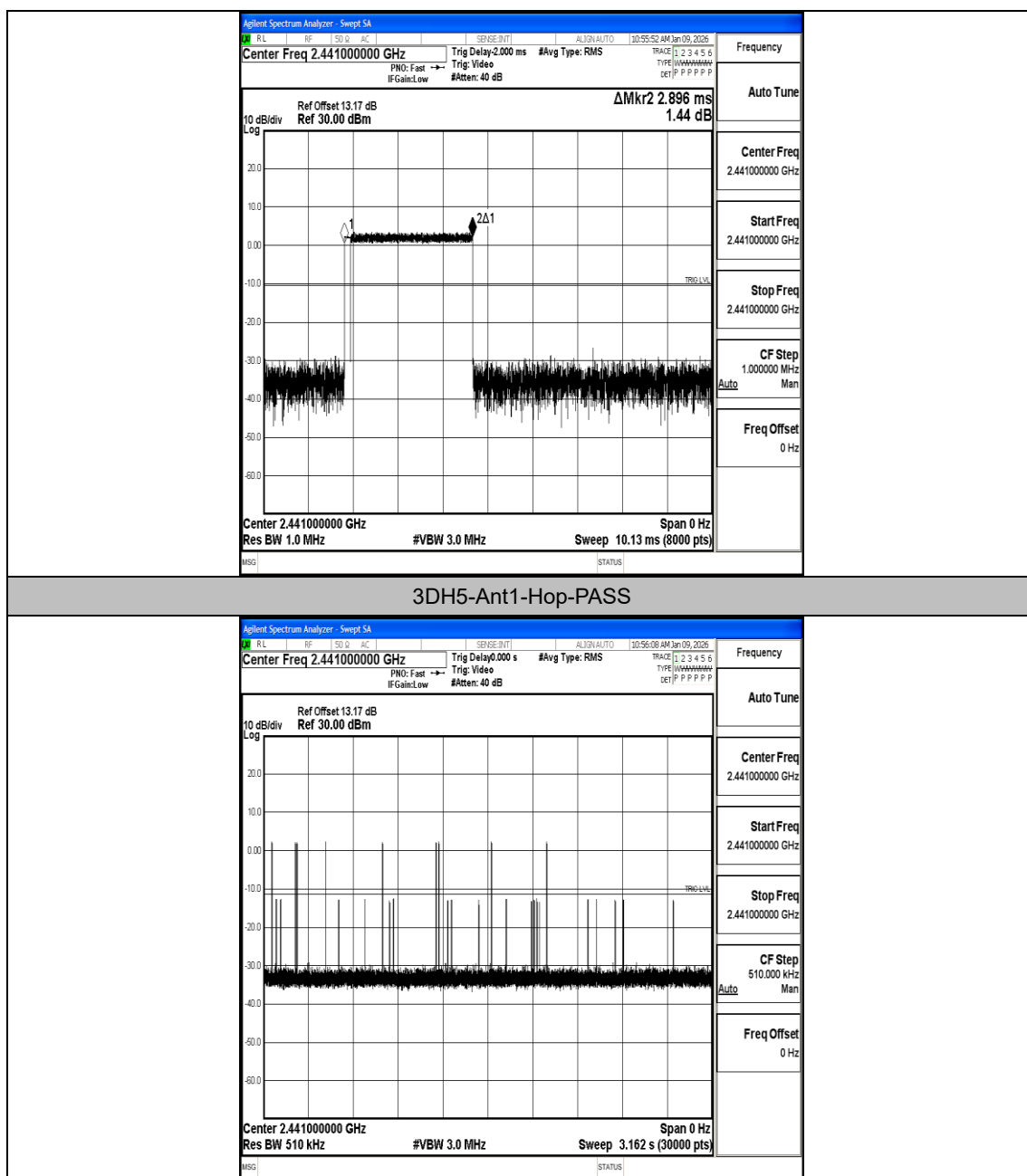
Test Result

TestMode	Antenna	Frequency [MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.908	110	0.32	≤0.4	PASS
2DH5	Ant1	Hop	2.896	90	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.896	100	0.29	≤0.4	PASS

Test Graphs





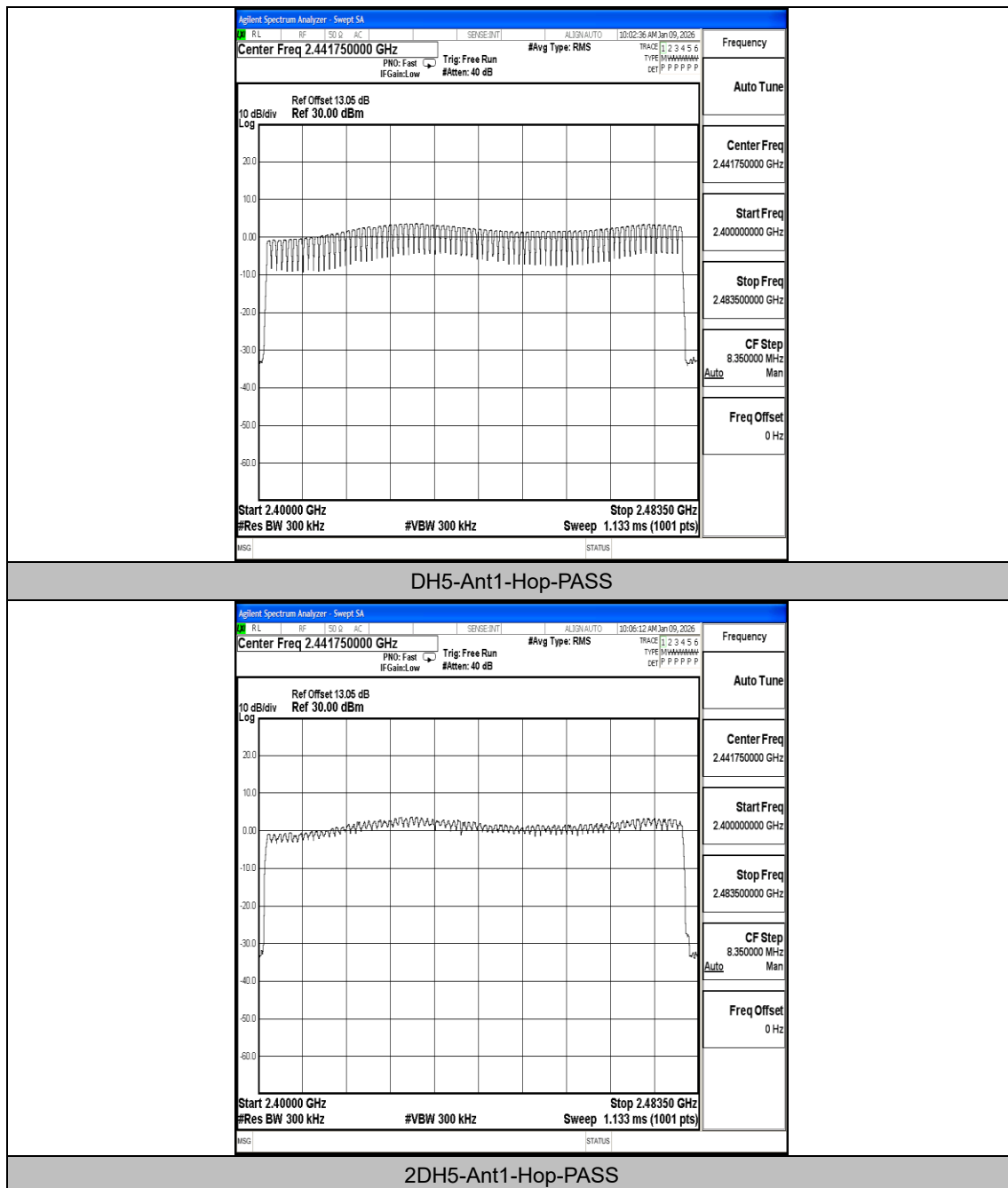


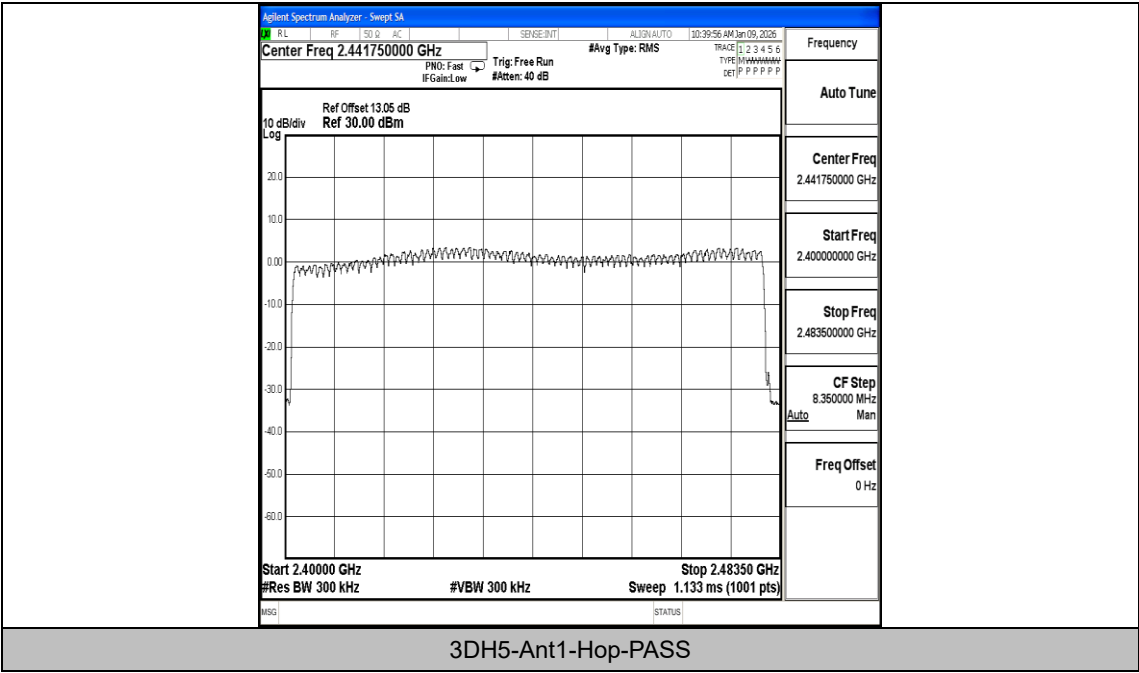
A.5 Number of hopping channels

Test Result

TestMode	Antenna	Frequency [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



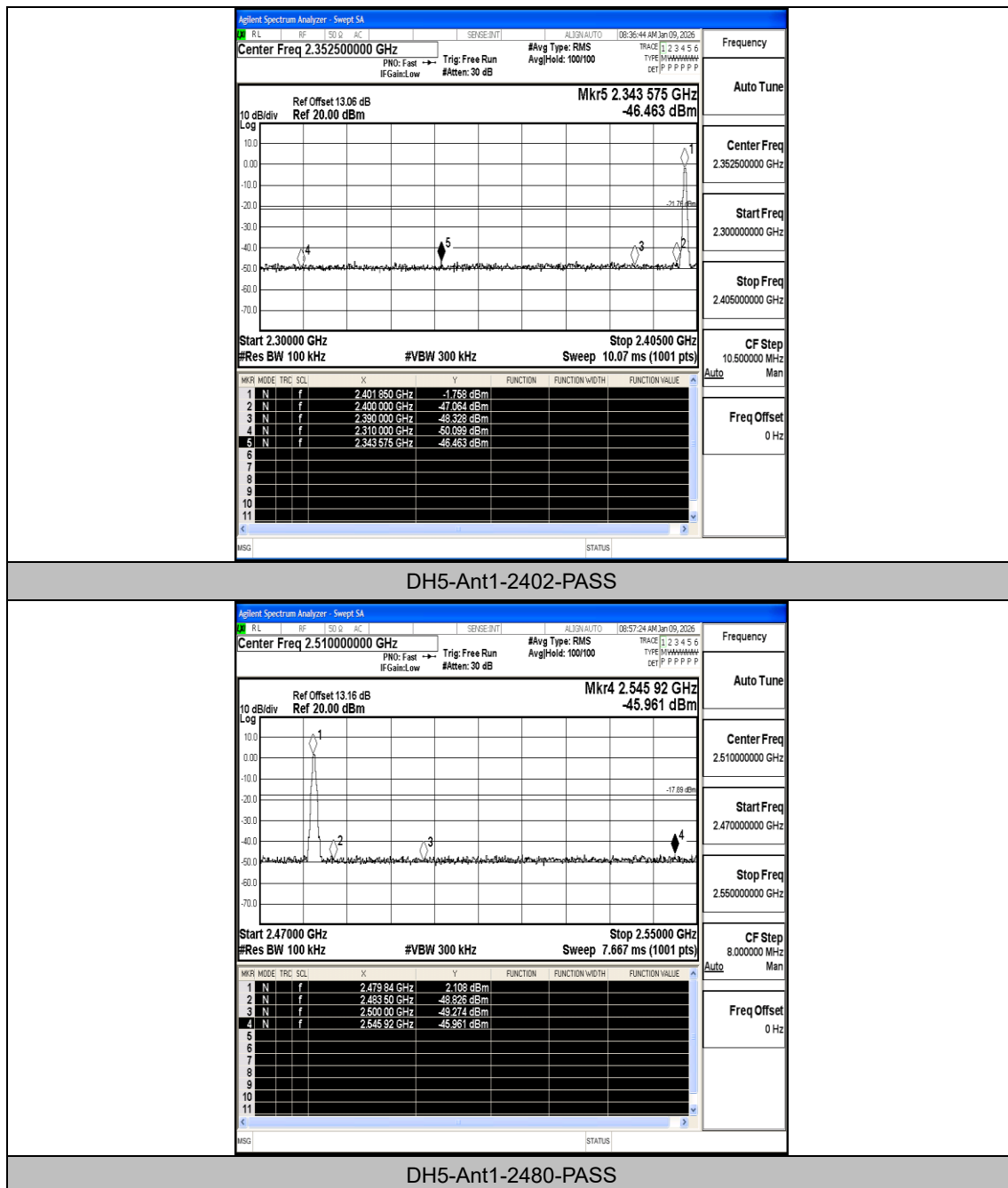


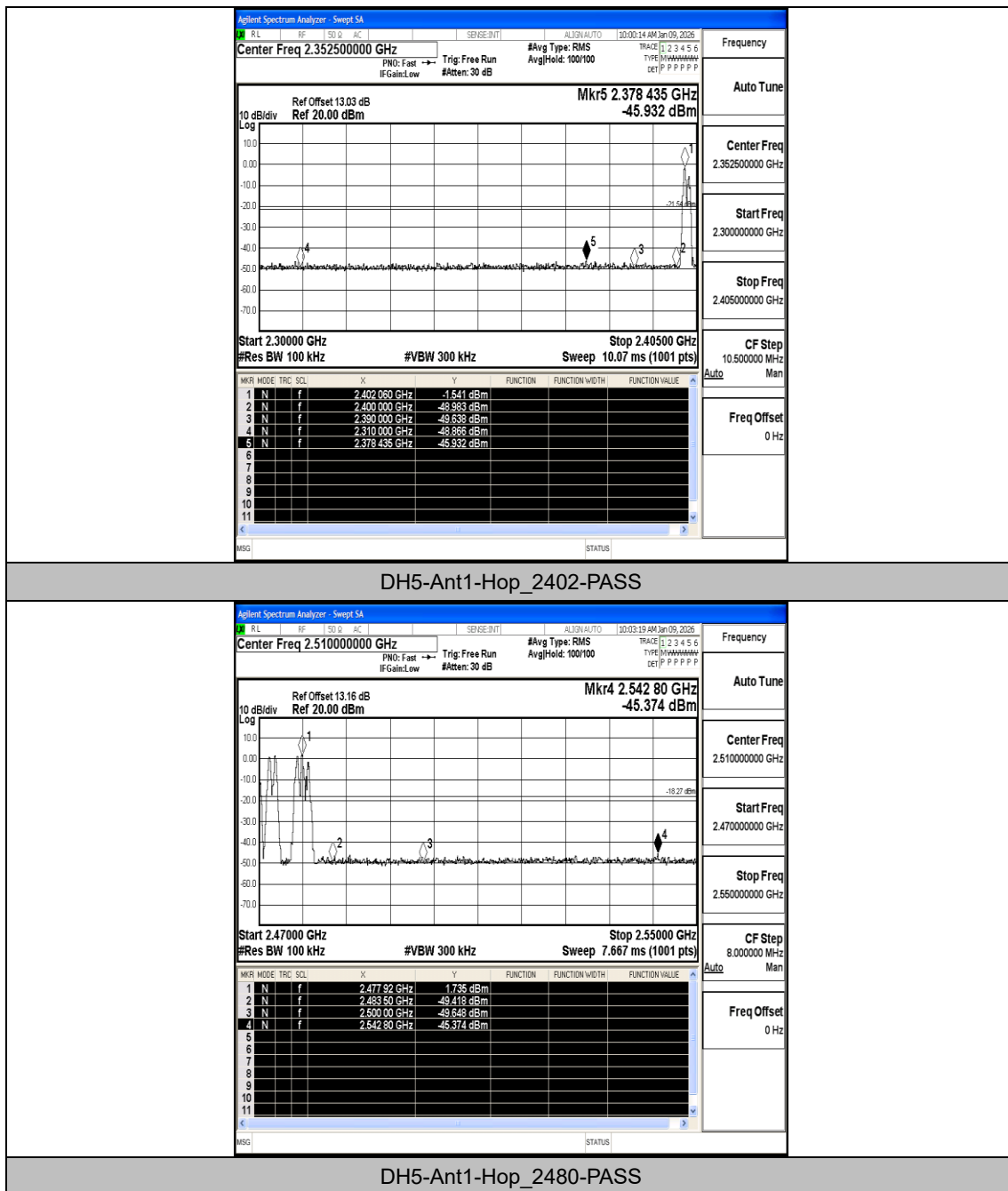
A.6 Band edge measurements

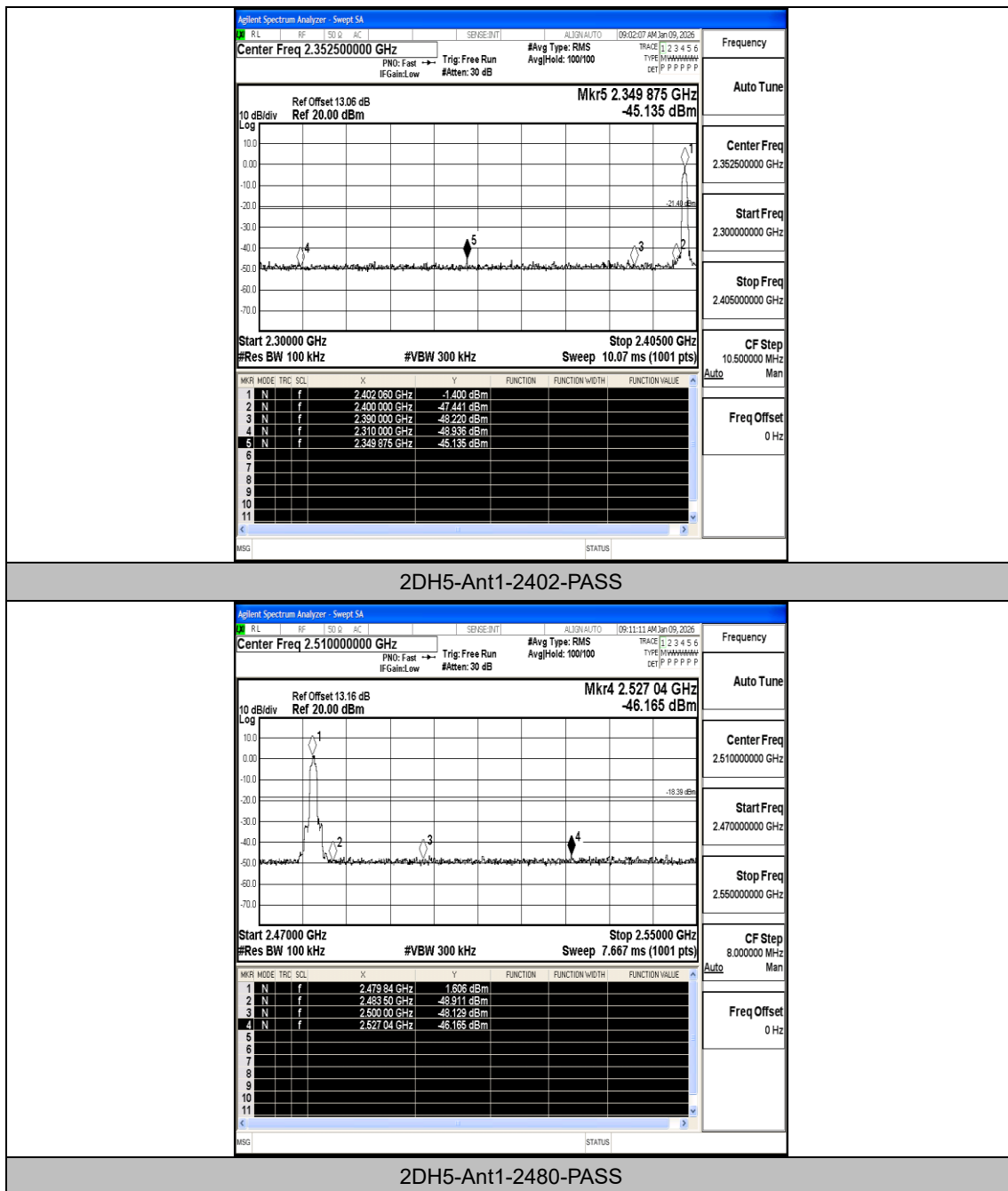
Test Result

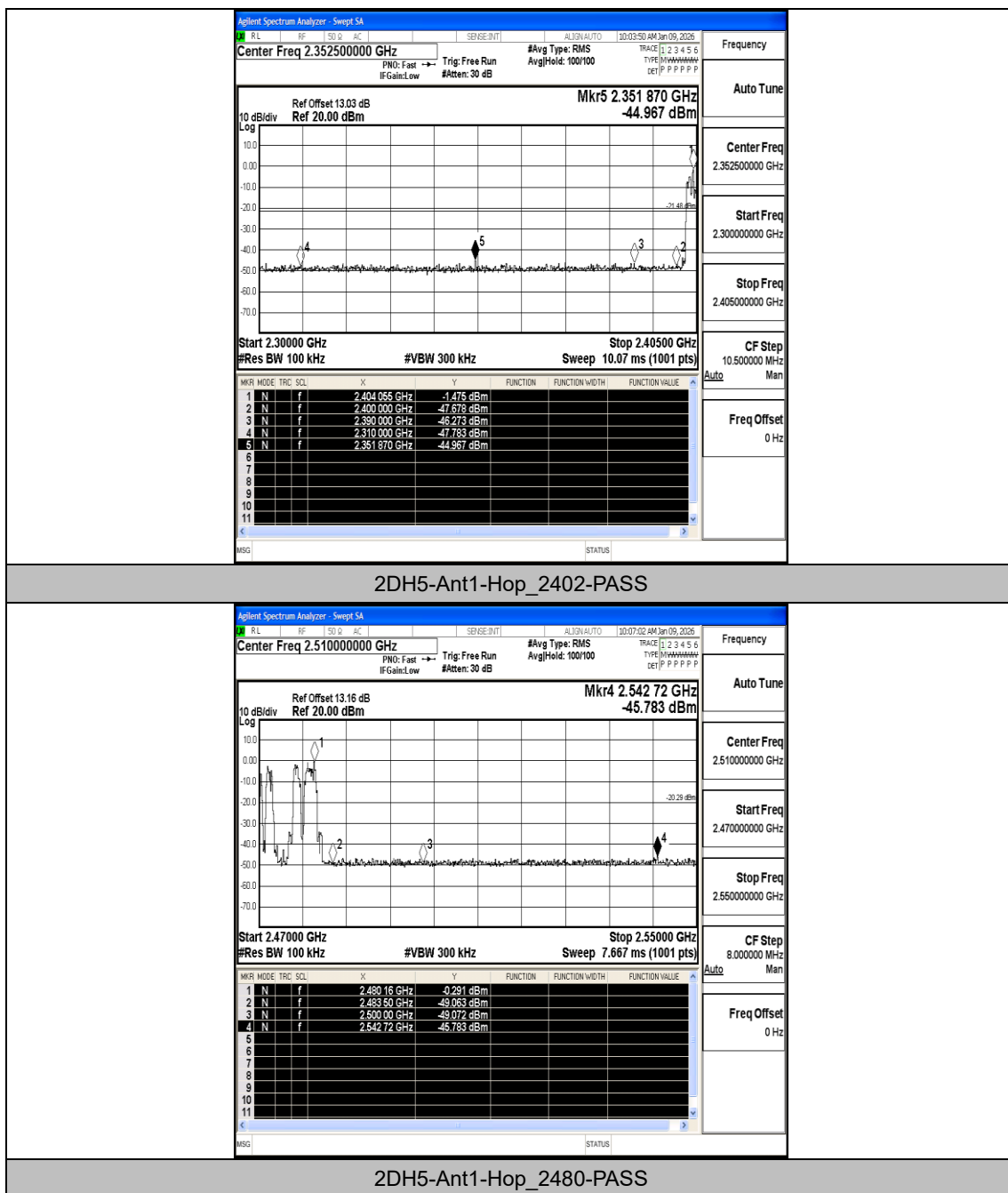
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.76	-46.46	≤ -21.76	PASS
DH5	Ant1	High	2480	2.11	-45.96	≤ -17.89	PASS
DH5	Ant1	Low	Hop_2402	-1.54	-45.93	≤ -21.54	PASS
DH5	Ant1	High	Hop_2480	1.74	-45.37	≤ -18.27	PASS
2DH5	Ant1	Low	2402	-1.40	-45.14	≤ -21.4	PASS
2DH5	Ant1	High	2480	1.61	-46.17	≤ -18.39	PASS
2DH5	Ant1	Low	Hop_2402	-1.48	-44.97	≤ -21.48	PASS
2DH5	Ant1	High	Hop_2480	-0.29	-45.78	≤ -20.29	PASS
3DH5	Ant1	Low	2402	-1.44	-45.97	≤ -21.44	PASS
3DH5	Ant1	High	2480	2.28	-46.06	≤ -17.72	PASS
3DH5	Ant1	Low	Hop_2402	-4.12	-45.87	≤ -24.12	PASS
3DH5	Ant1	High	Hop_2480	-0.98	-46.03	≤ -20.98	PASS

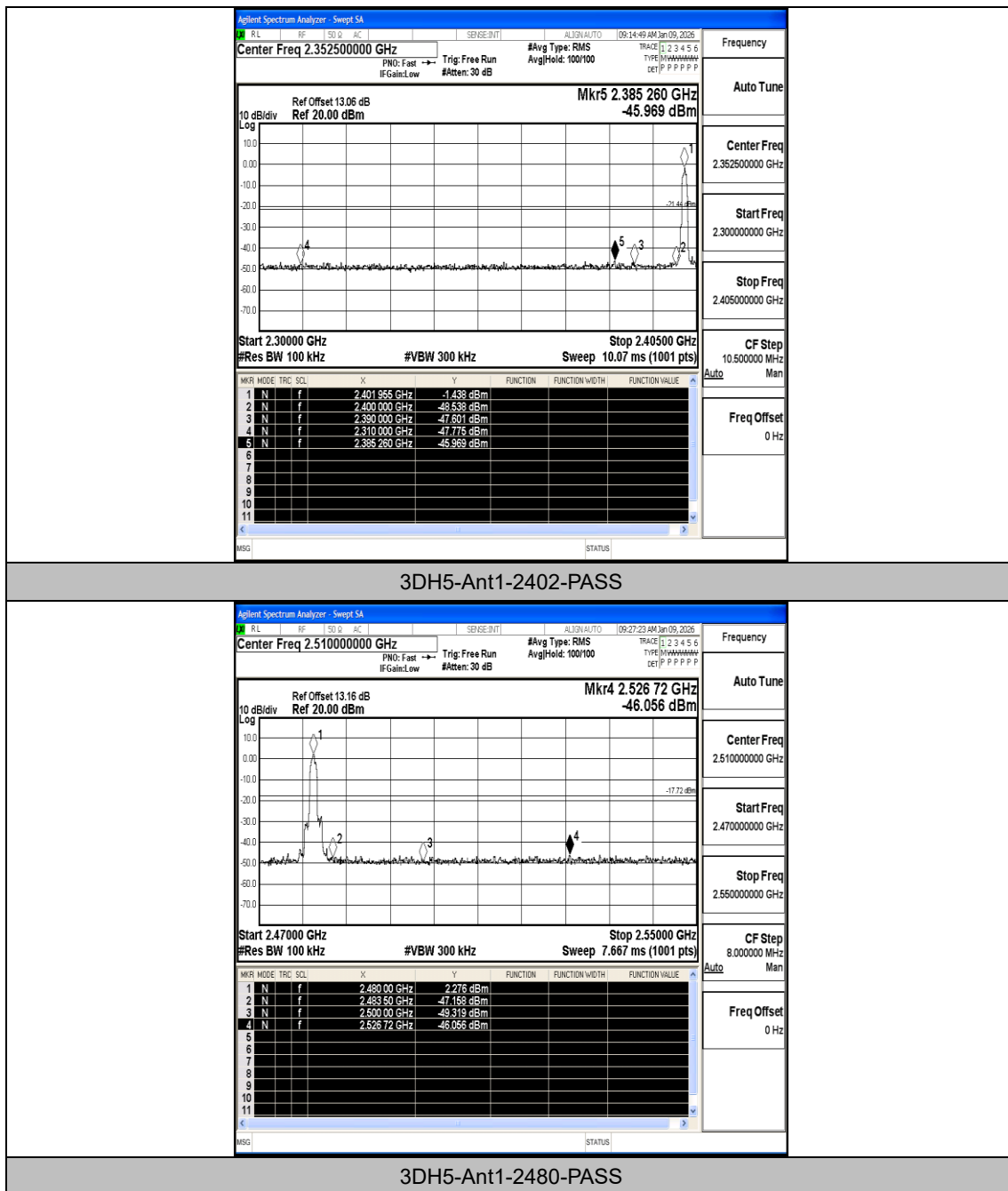
Test Graphs

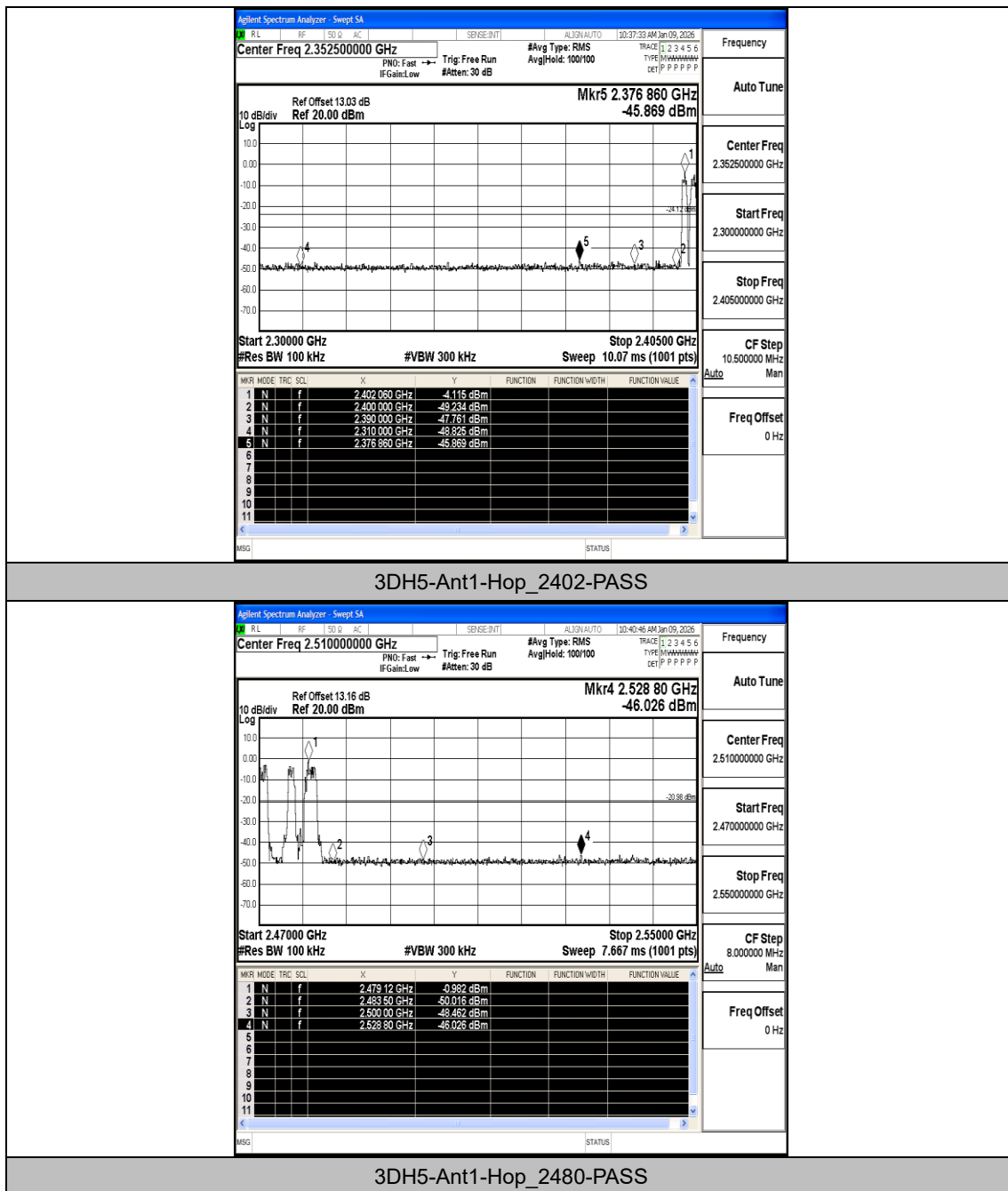












A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-1.78	-1.78	---	PASS
DH5	Ant1	2402	30~1000	-1.78	-56.84	≤-21.78	PASS
DH5	Ant1	2402	1000~26500	-1.78	-44.08	≤-21.78	PASS
DH5	Ant1	2441	0~Reference	0.97	0.97	---	PASS
DH5	Ant1	2441	30~1000	0.97	-56.98	≤-19.03	PASS
DH5	Ant1	2441	1000~26500	0.97	-44.51	≤-19.03	PASS
DH5	Ant1	2480	0~Reference	2.45	2.45	---	PASS
DH5	Ant1	2480	30~1000	2.45	-56.52	≤-17.55	PASS
DH5	Ant1	2480	1000~26500	2.45	-43.89	≤-17.55	PASS
2DH5	Ant1	2402	0~Reference	-5.45	-5.45	---	PASS
2DH5	Ant1	2402	30~1000	-5.45	-56.85	≤-25.45	PASS
2DH5	Ant1	2402	1000~26500	-5.45	-44	≤-25.45	PASS
2DH5	Ant1	2441	0~Reference	1.45	1.45	---	PASS
2DH5	Ant1	2441	30~1000	1.45	-56.38	≤-18.55	PASS
2DH5	Ant1	2441	1000~26500	1.45	-44.63	≤-18.55	PASS
2DH5	Ant1	2480	0~Reference	-0.60	-0.60	---	PASS
2DH5	Ant1	2480	30~1000	-0.60	-56.44	≤-20.6	PASS
2DH5	Ant1	2480	1000~26500	-0.60	-44.03	≤-20.6	PASS
3DH5	Ant1	2402	0~Reference	-2.26	-2.26	---	PASS
3DH5	Ant1	2402	30~1000	-2.26	-57.06	≤-22.26	PASS
3DH5	Ant1	2402	1000~26500	-2.26	-44.61	≤-22.26	PASS
3DH5	Ant1	2441	0~Reference	1.13	1.13	---	PASS
3DH5	Ant1	2441	30~1000	1.13	-55.56	≤-18.87	PASS
3DH5	Ant1	2441	1000~26500	1.13	-44.55	≤-18.87	PASS
3DH5	Ant1	2480	0~Reference	1.37	1.37	---	PASS
3DH5	Ant1	2480	30~1000	1.37	-57.01	≤-18.63	PASS
3DH5	Ant1	2480	1000~26500	1.37	-44.53	≤-18.63	PASS

Test Graphs

