



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Speaker box

Test Model: PWRPA2

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Bill Zhu
Supervised by:	Li Huan



A.1 20dB Emission Bandwidth

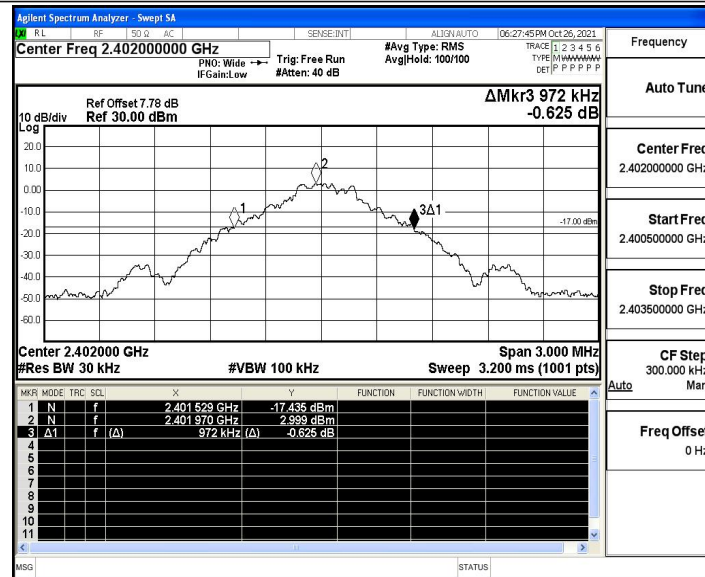
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.972	2401.529	2402.501	---	PASS
		2441	1.017	2440.466	2441.483	---	PASS
		2480	0.963	2479.535	2480.498	---	PASS
2DH5	Ant1	2402	1.293	2401.361	2402.654	---	PASS
		2441	1.290	2440.361	2441.651	---	PASS
		2480	1.296	2479.358	2480.654	---	PASS
3DH5	Ant1	2402	1.344	2401.325	2402.669	---	PASS
		2441	1.311	2440.343	2441.654	---	PASS
		2480	1.302	2479.346	2480.648	---	PASS

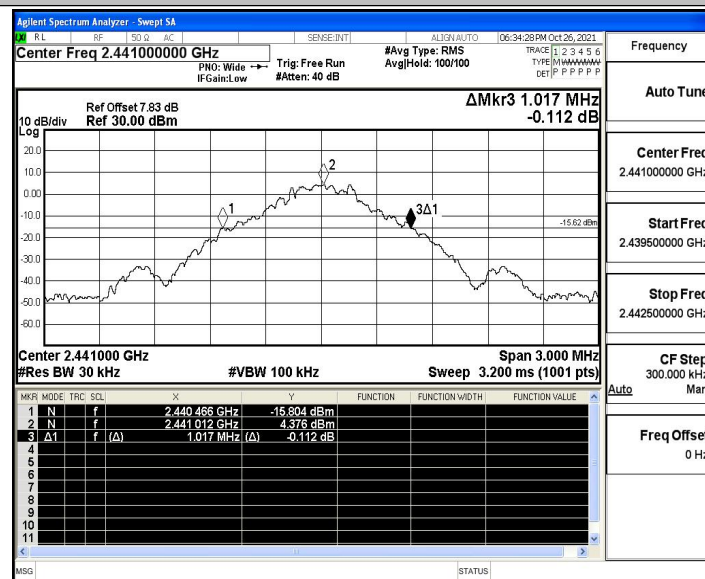


Test Graphs

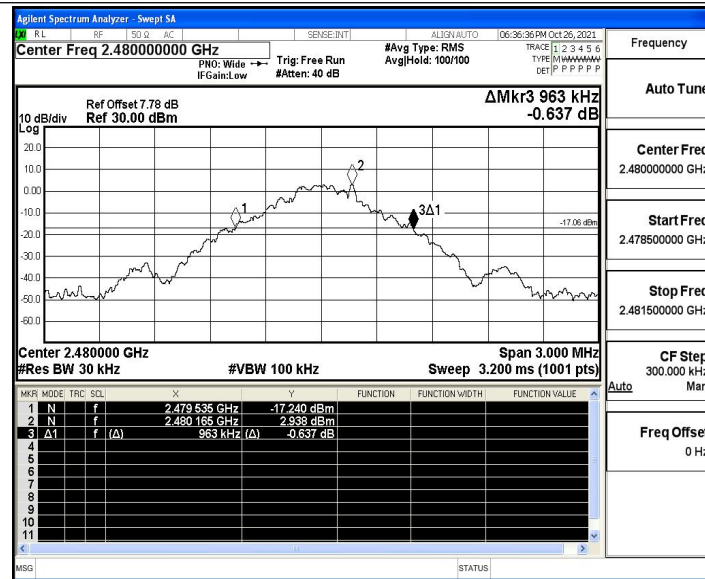
DH5_Ant1_2402



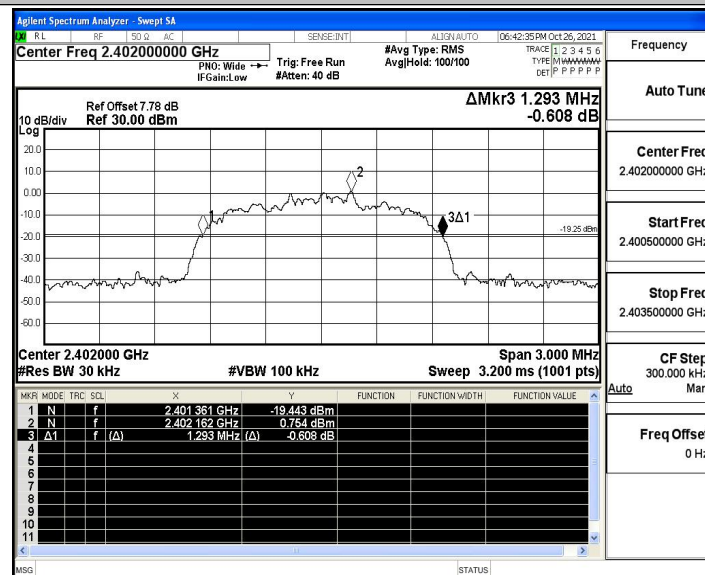
DH5_Ant1_2441



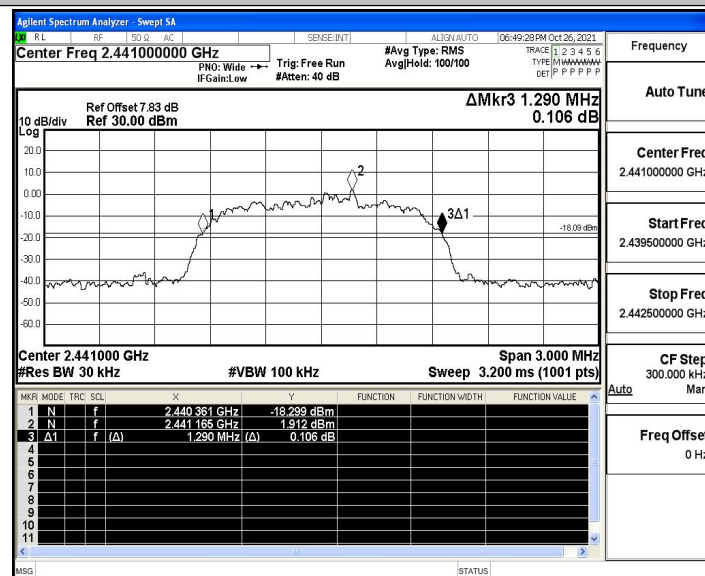
DH5_Ant1_2480



2DH5_Ant1_2402

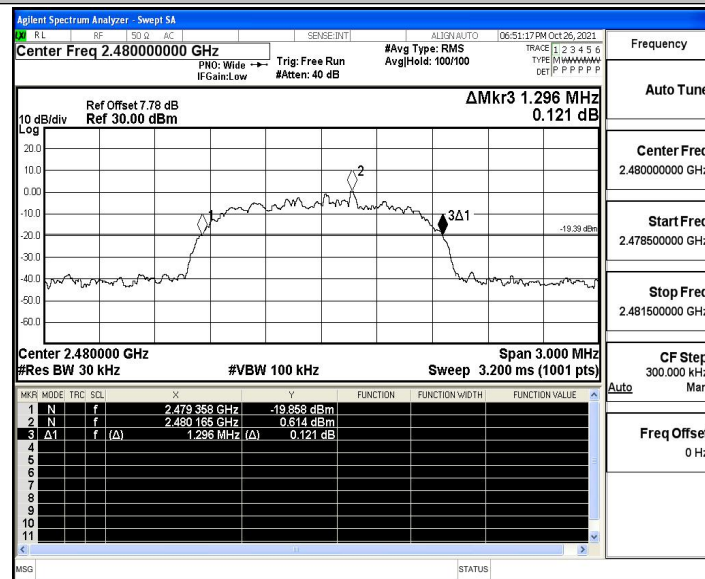


2DH5_Ant1_2441

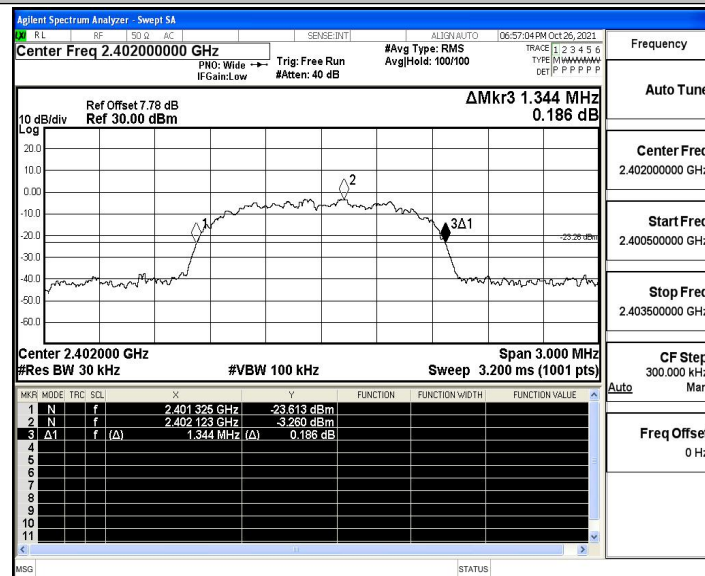




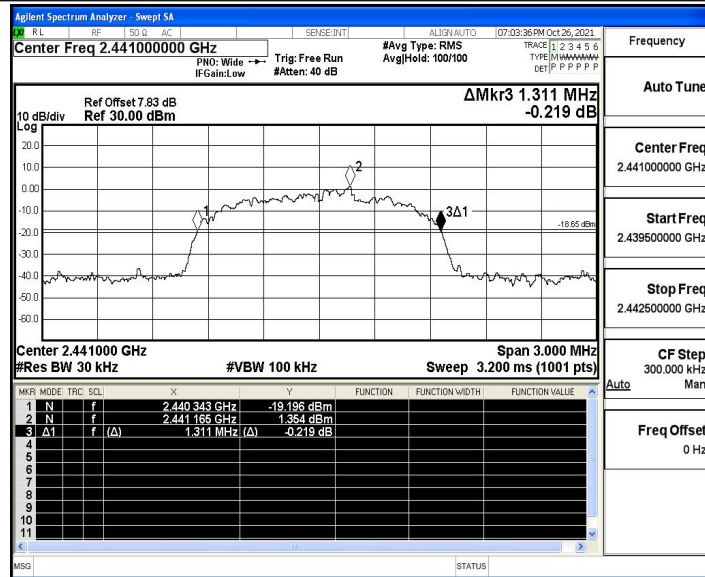
2DH5_Ant1_2480



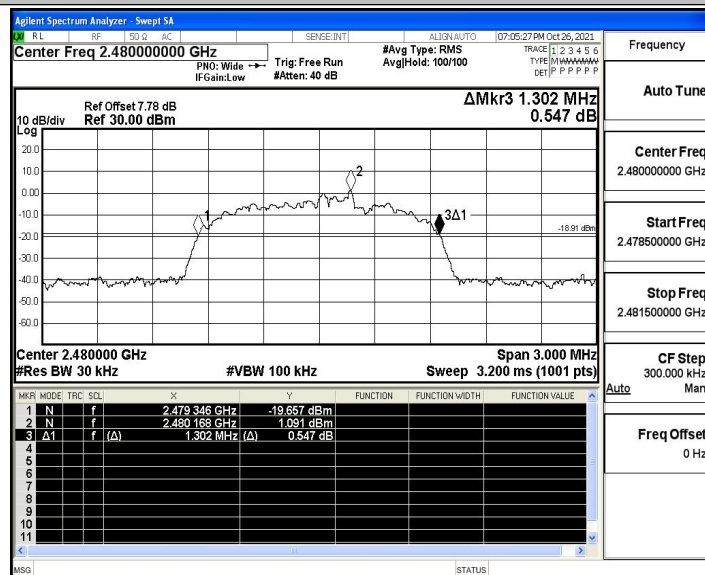
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





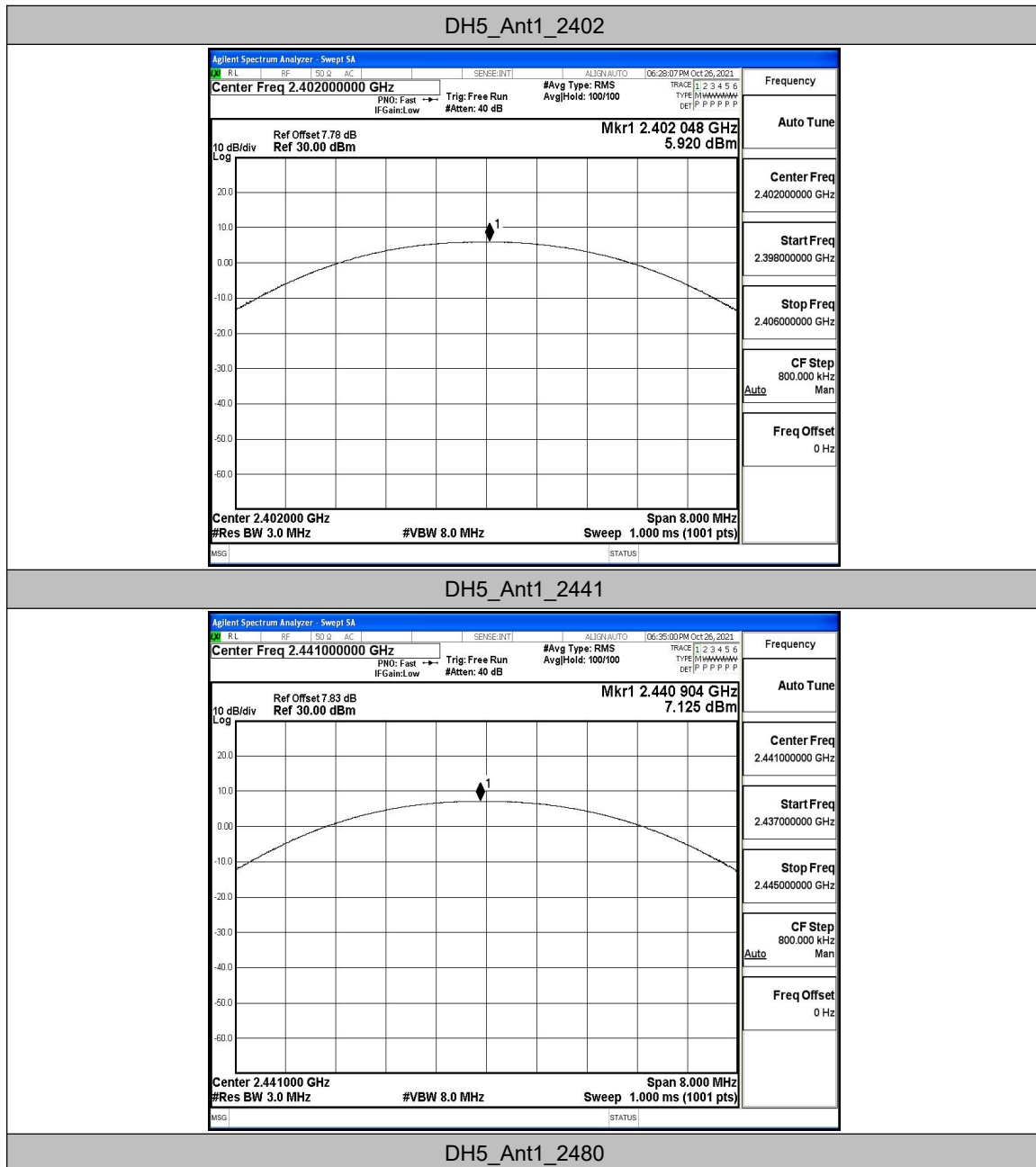
A.2 Maximum conducted output power

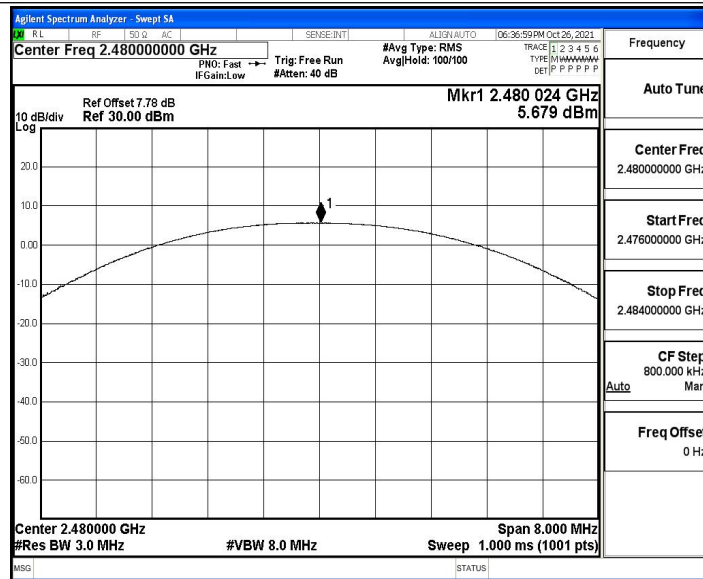
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	5.92	≤20.97	PASS
		2441	7.13	≤20.97	PASS
		2480	5.68	≤20.97	PASS
2DH5	Ant1	2402	5.05	≤20.97	PASS
		2441	6.23	≤20.97	PASS
		2480	4.83	≤20.97	PASS
3DH5	Ant1	2402	5.15	≤20.97	PASS
		2441	6.35	≤20.97	PASS
		2480	4.98	≤20.97	PASS

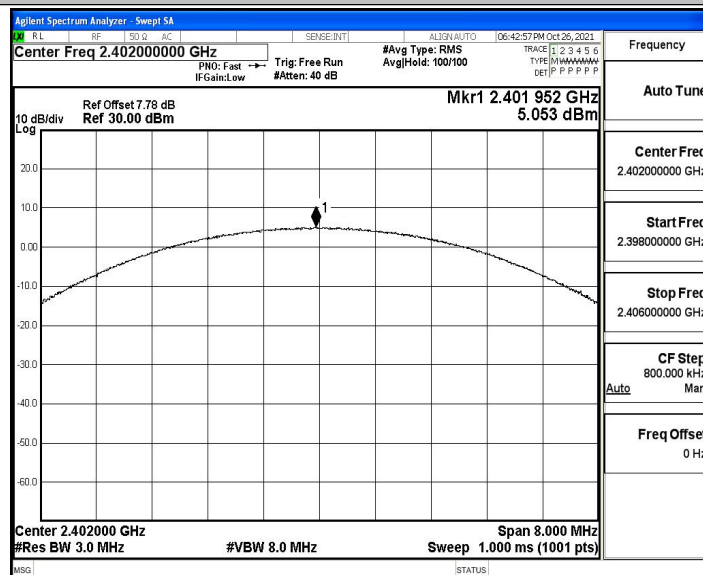


Test Graphs

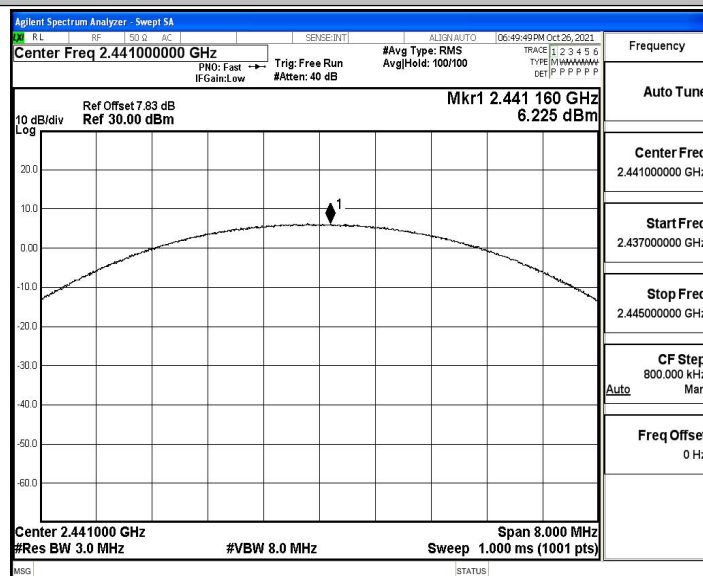




2DH5_Ant1_2402

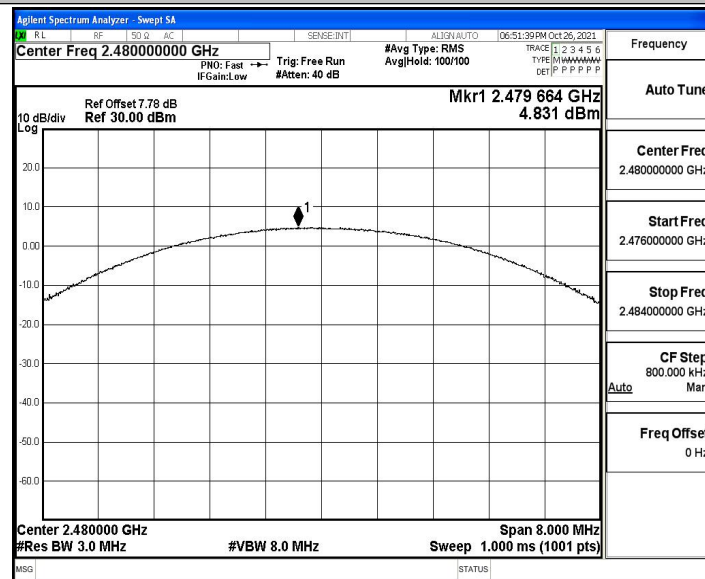


2DH5_Ant1_2441

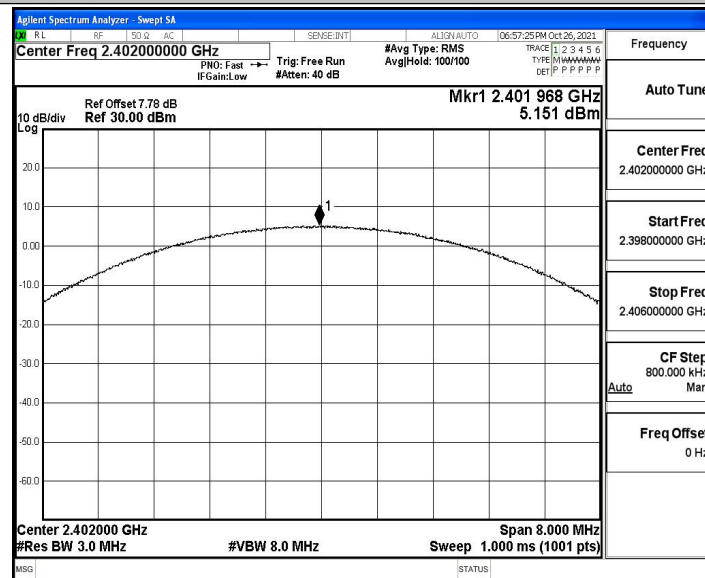




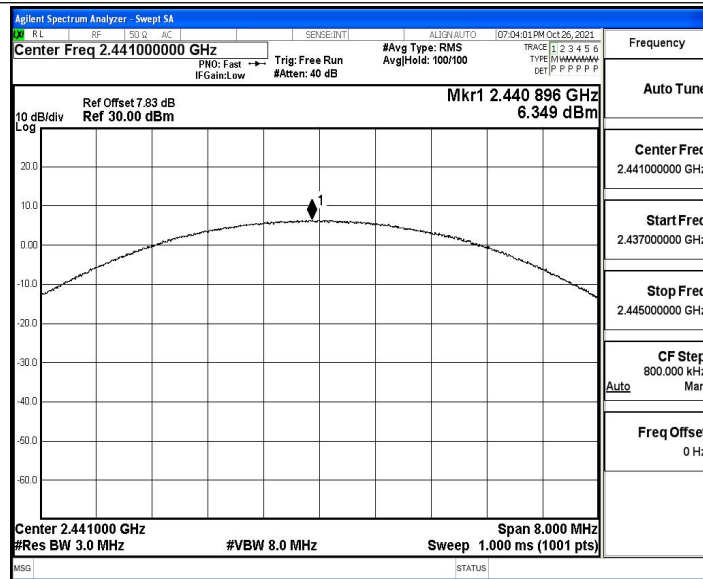
2DH5_Ant1_2480



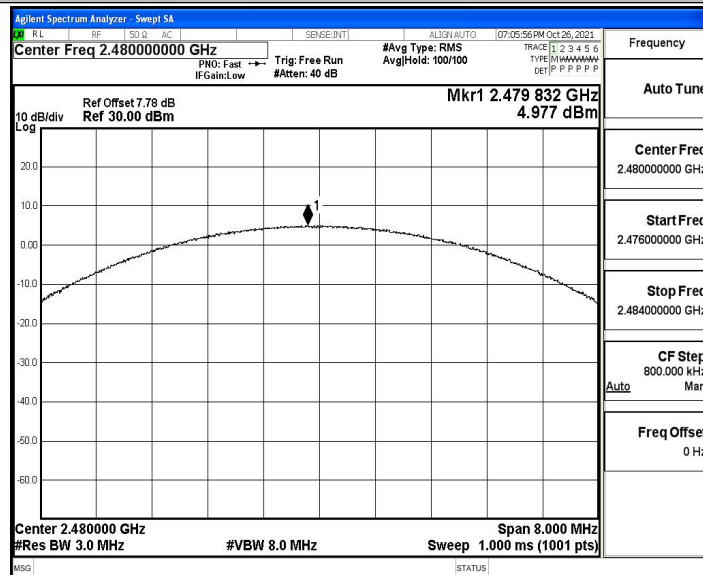
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



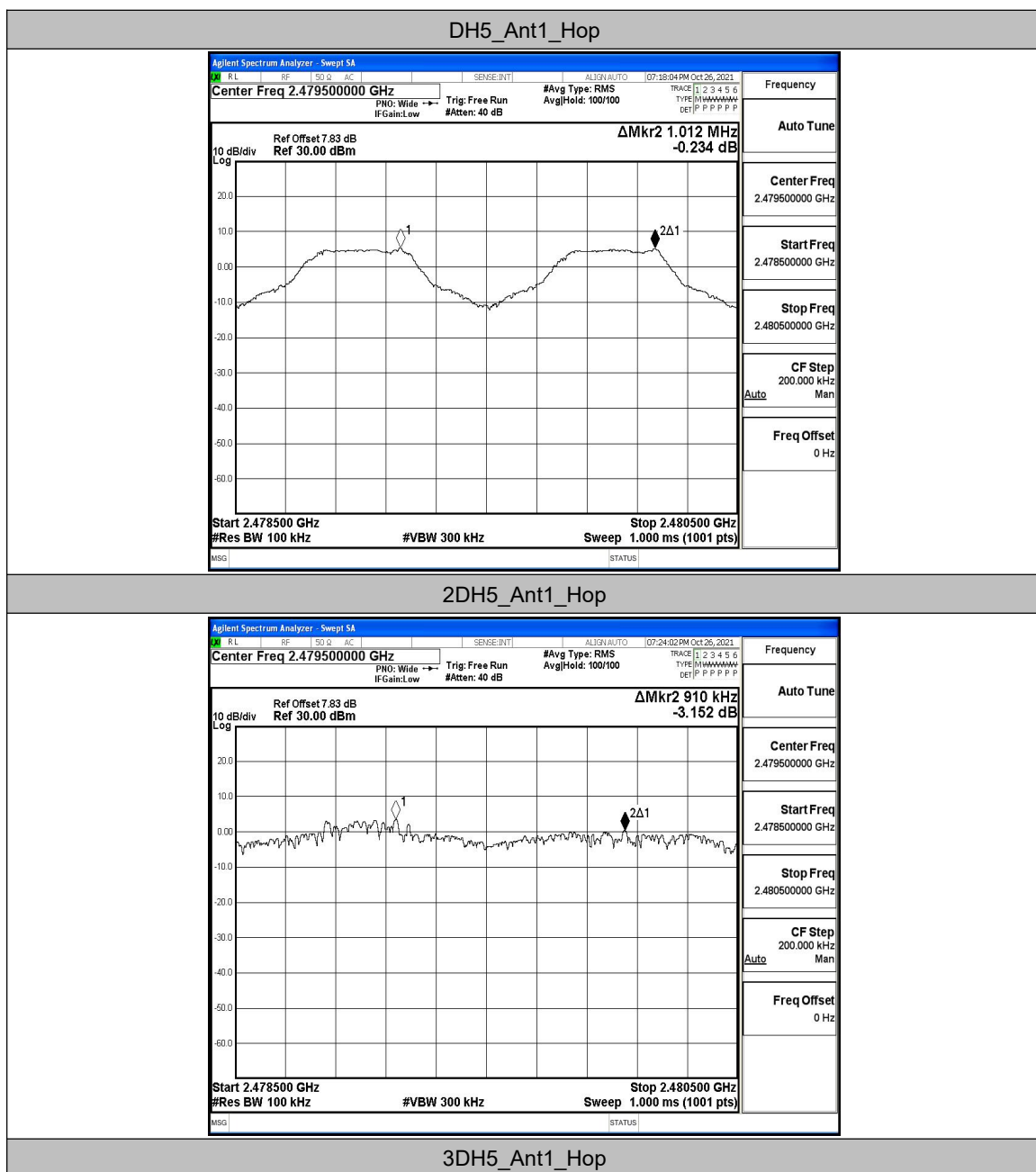


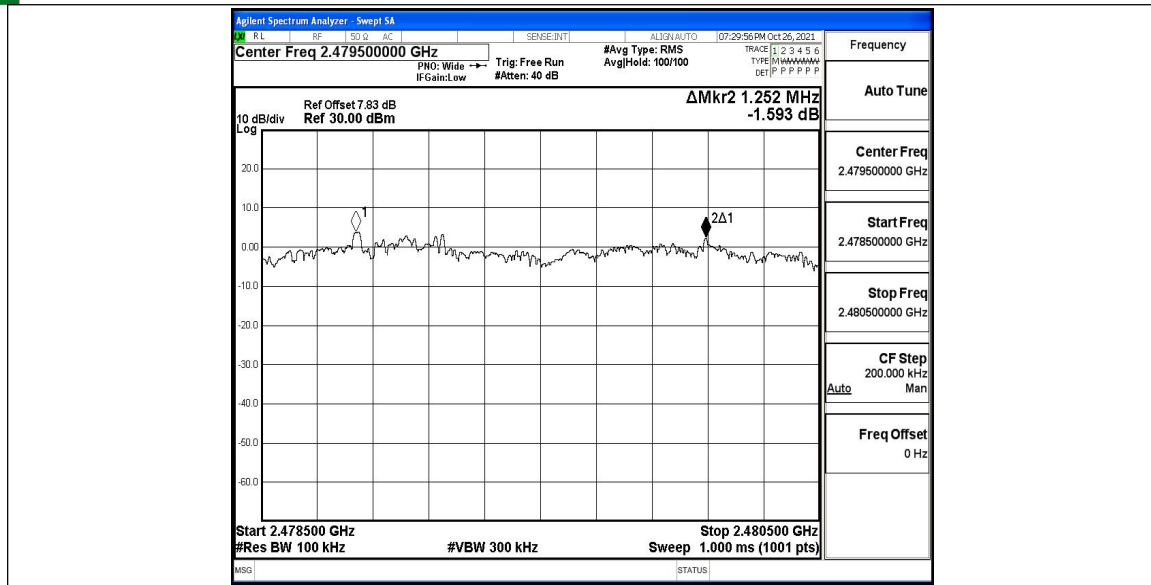
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.012	≥ 0.678	PASS
2DH5	Ant1	Hop	0.91	≥ 0.864	PASS
3DH5	Ant1	Hop	1.252	≥ 0.896	PASS

Test Graphs





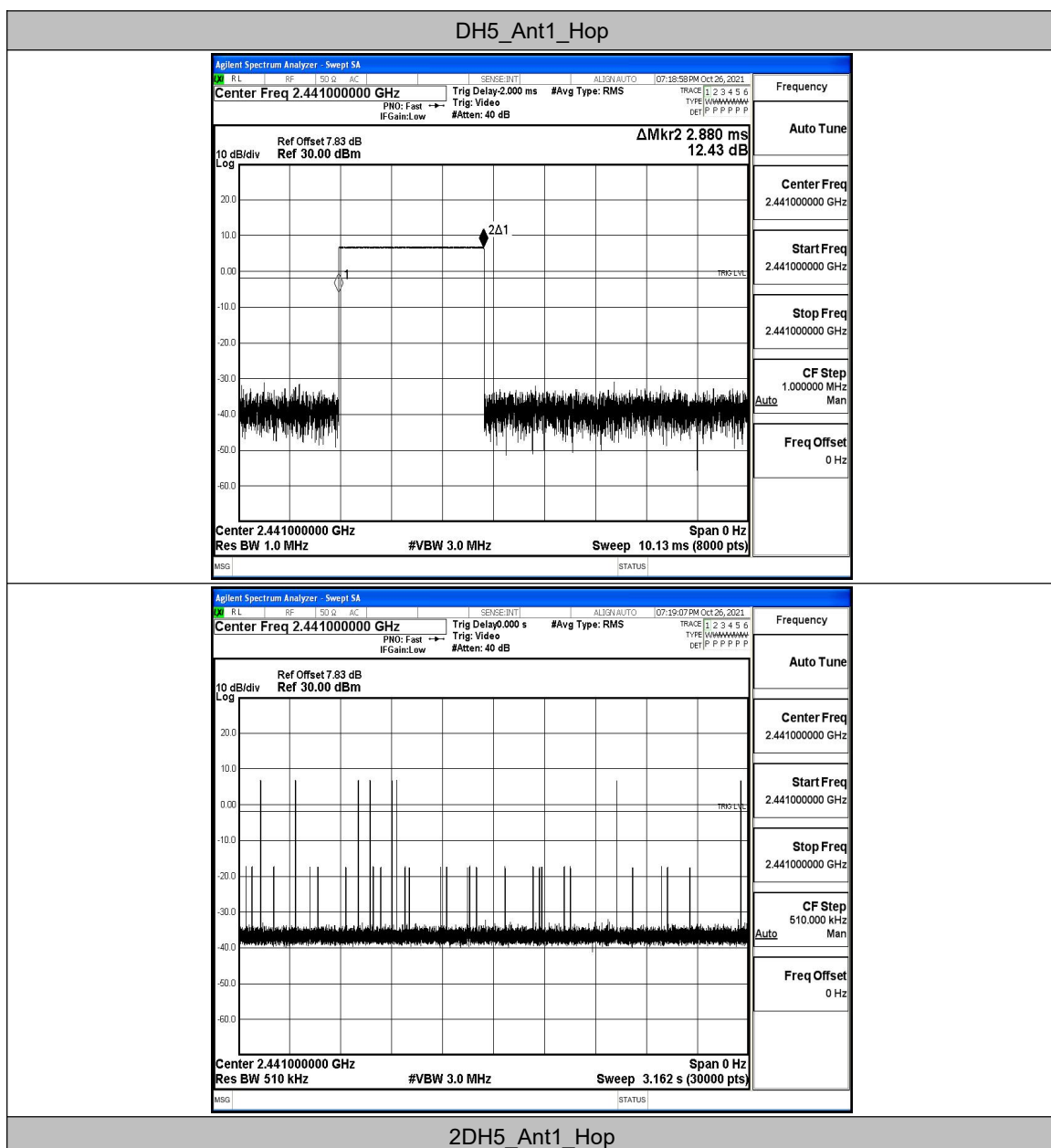


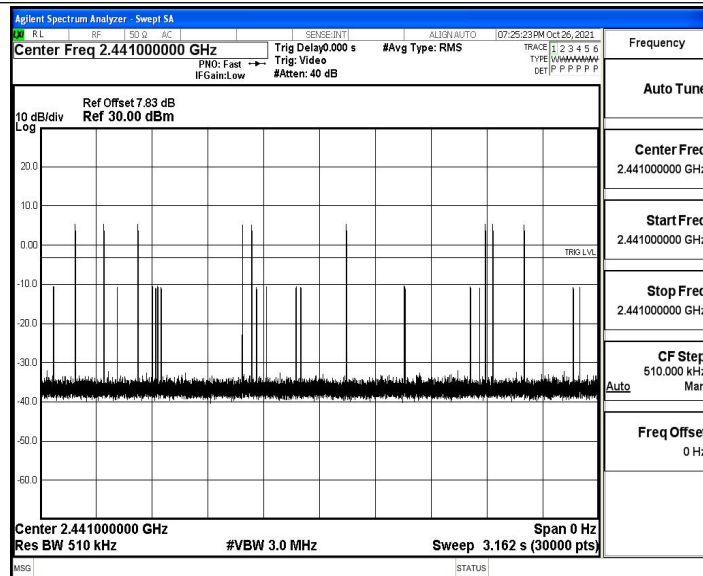
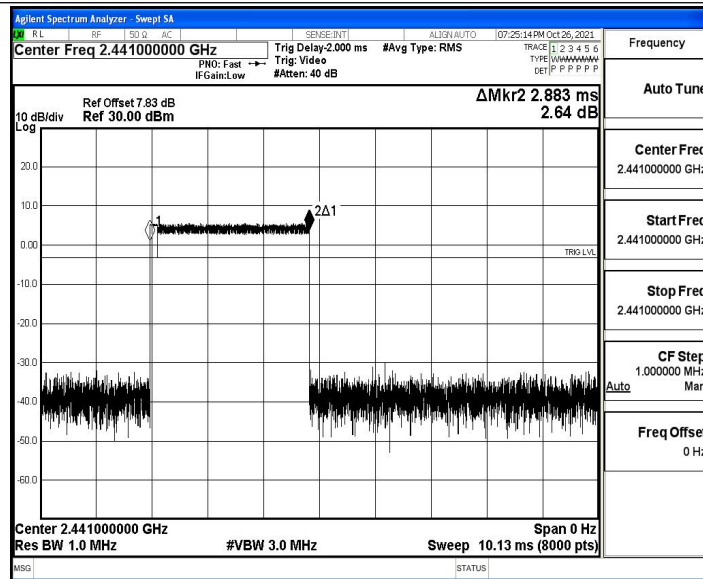
A.4 Time of occupancy

Test Result

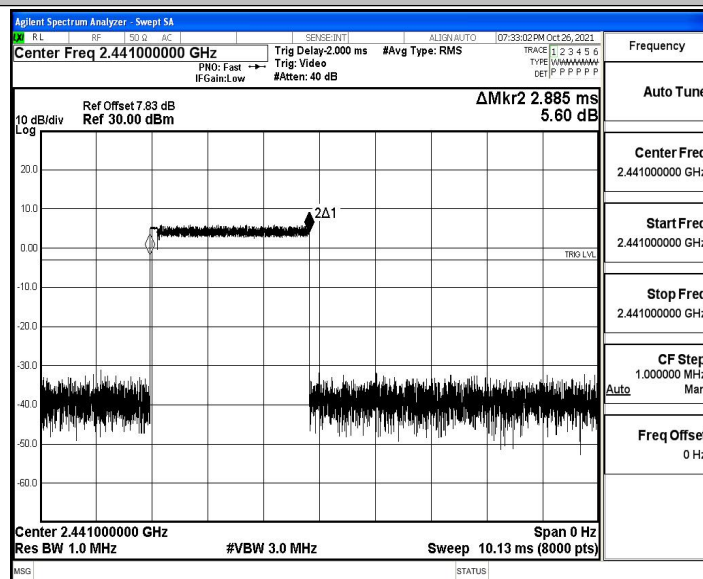
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
2DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
3DH5	Ant1	Hop	2.89	100	0.289	≤0.4	PASS

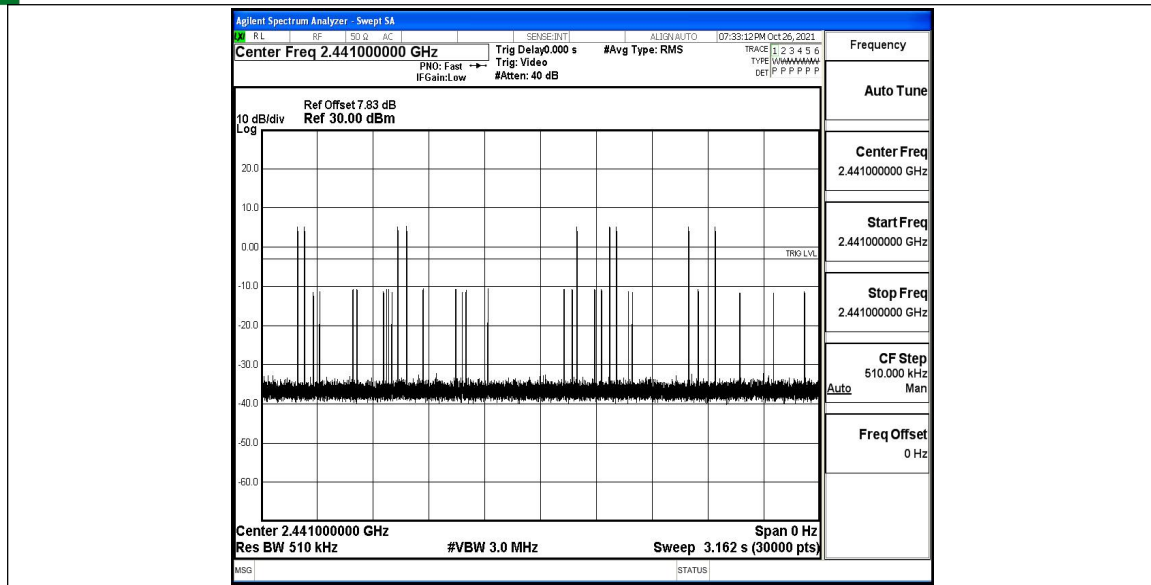
Test Graphs





3DH5_Ant1_Hop





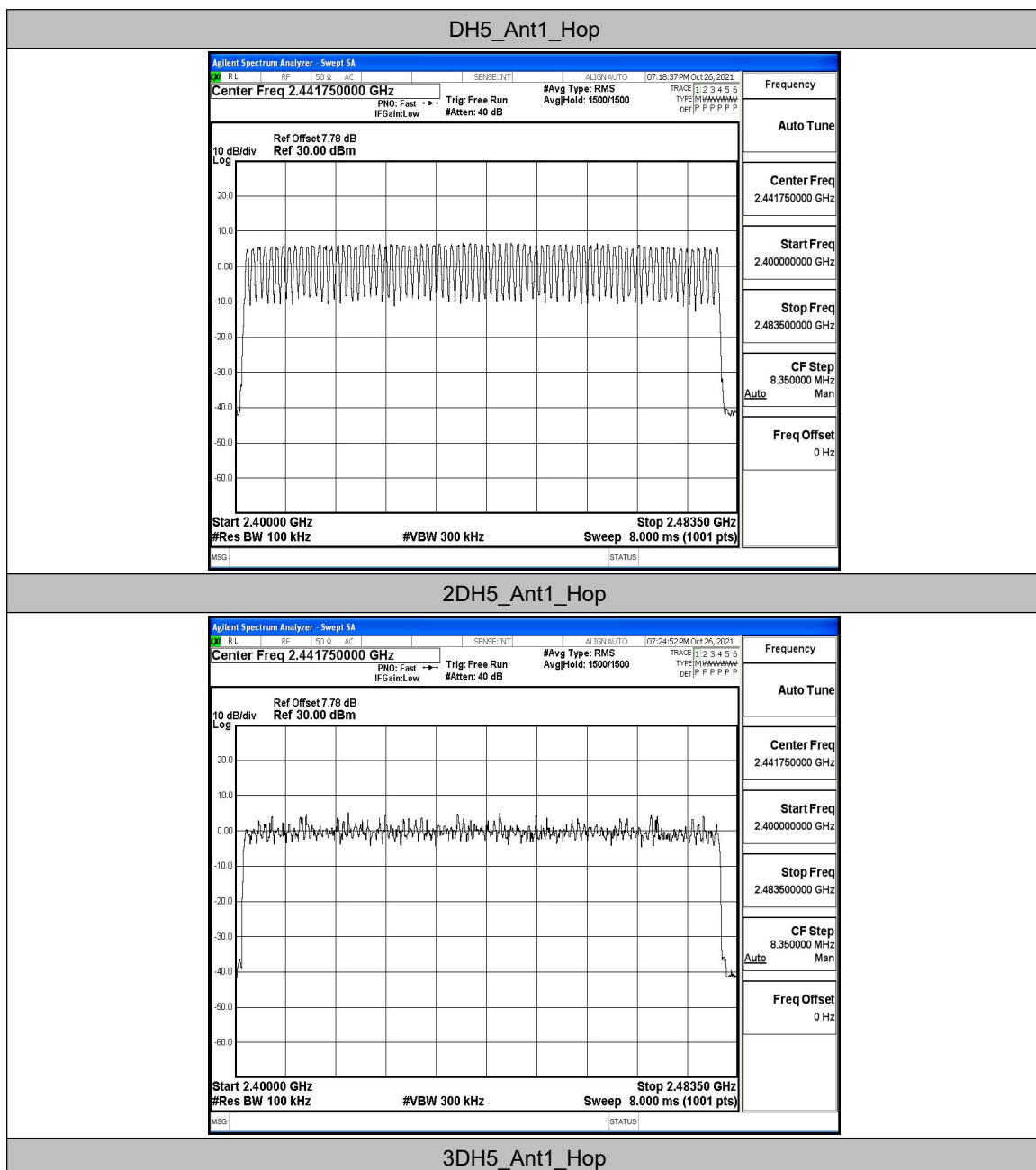


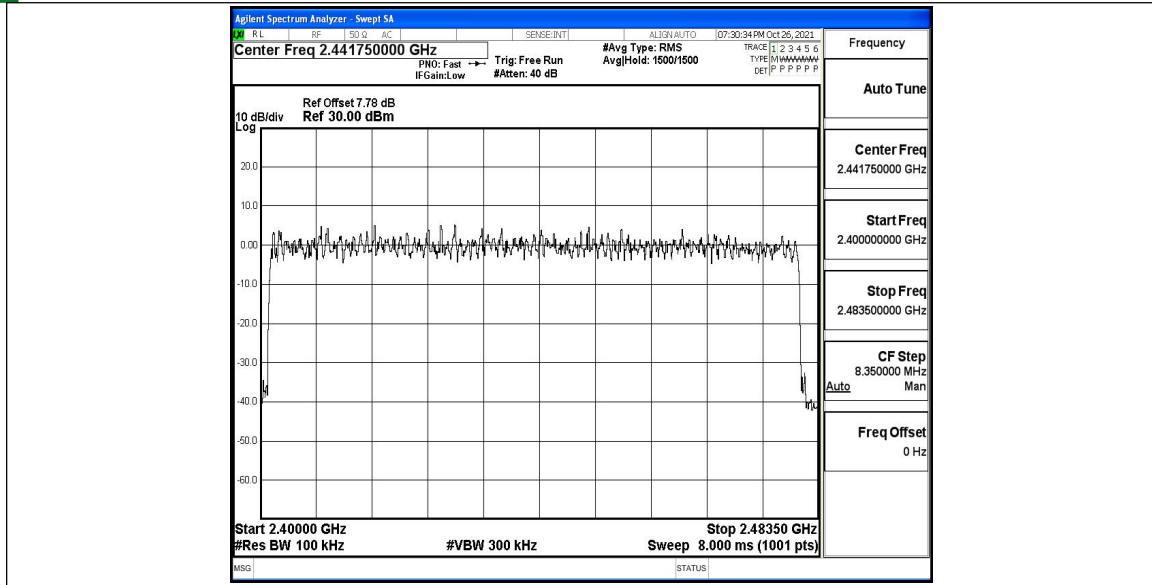
A.5 Number of hopping channels

Test Result

TestMode	Antenna	Channel	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

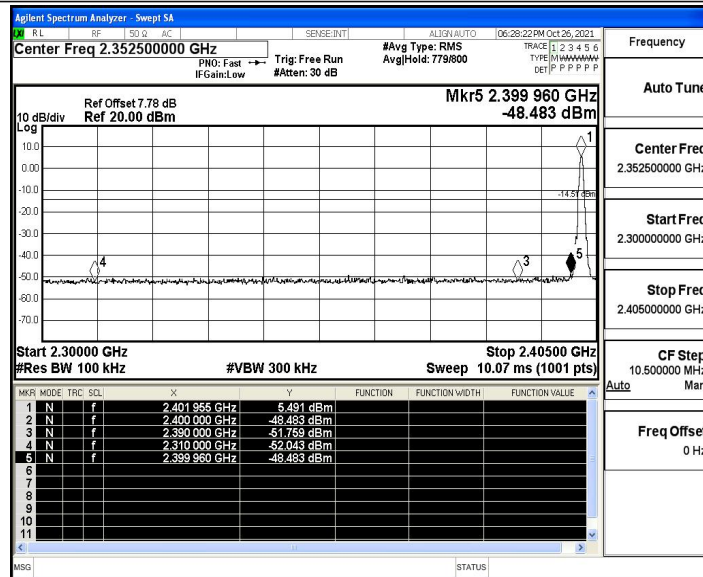
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	5.49	-48.48	≤ -14.51	PASS
		High	2480	5.52	-40.82	≤ -14.48	PASS
		Low	Hop_2402	5.32	-49.88	≤ -14.68	PASS
		High	Hop_2480	5.50	-40.24	≤ -14.5	PASS
2DH5	Ant1	Low	2402	4.04	-48.78	≤ -15.96	PASS
		High	2480	3.92	-45.19	≤ -16.08	PASS
		Low	Hop_2402	0.36	-49.07	≤ -19.64	PASS
		High	Hop_2480	3.90	-48.29	≤ -16.1	PASS
3DH5	Ant1	Low	2402	4.06	-48.37	≤ -15.94	PASS
		High	2480	4.04	-46.89	≤ -15.96	PASS
		Low	Hop_2402	1.19	-49.62	≤ -18.81	PASS
		High	Hop_2480	4.12	-45.68	≤ -15.88	PASS

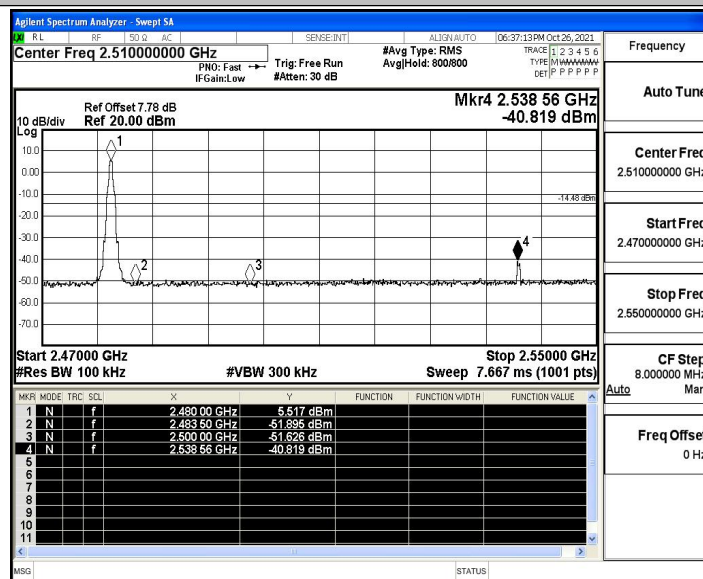


Test Graphs

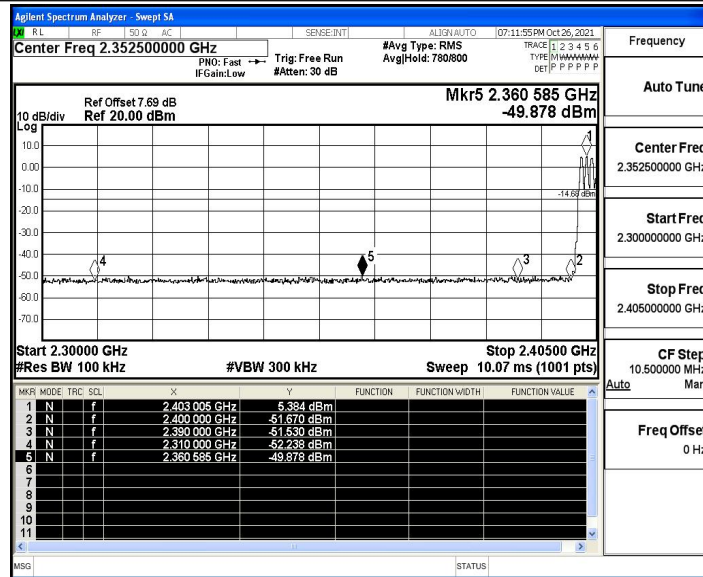
DH5_Ant1_Low_2402



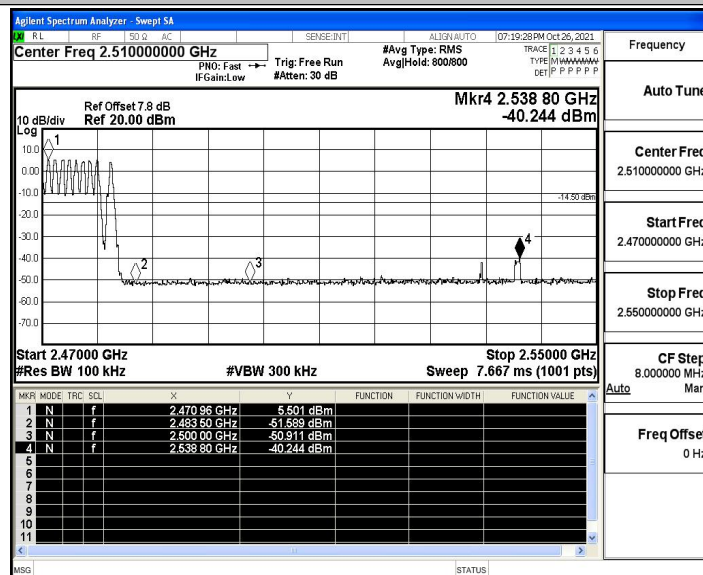
DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

