

Appendix Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: Aliencraft wireless earphone

Trade Mark: Aliencraft

Test Model: DROID66

FCC ID: 2BLHE-DROID66

Environmental Conditions

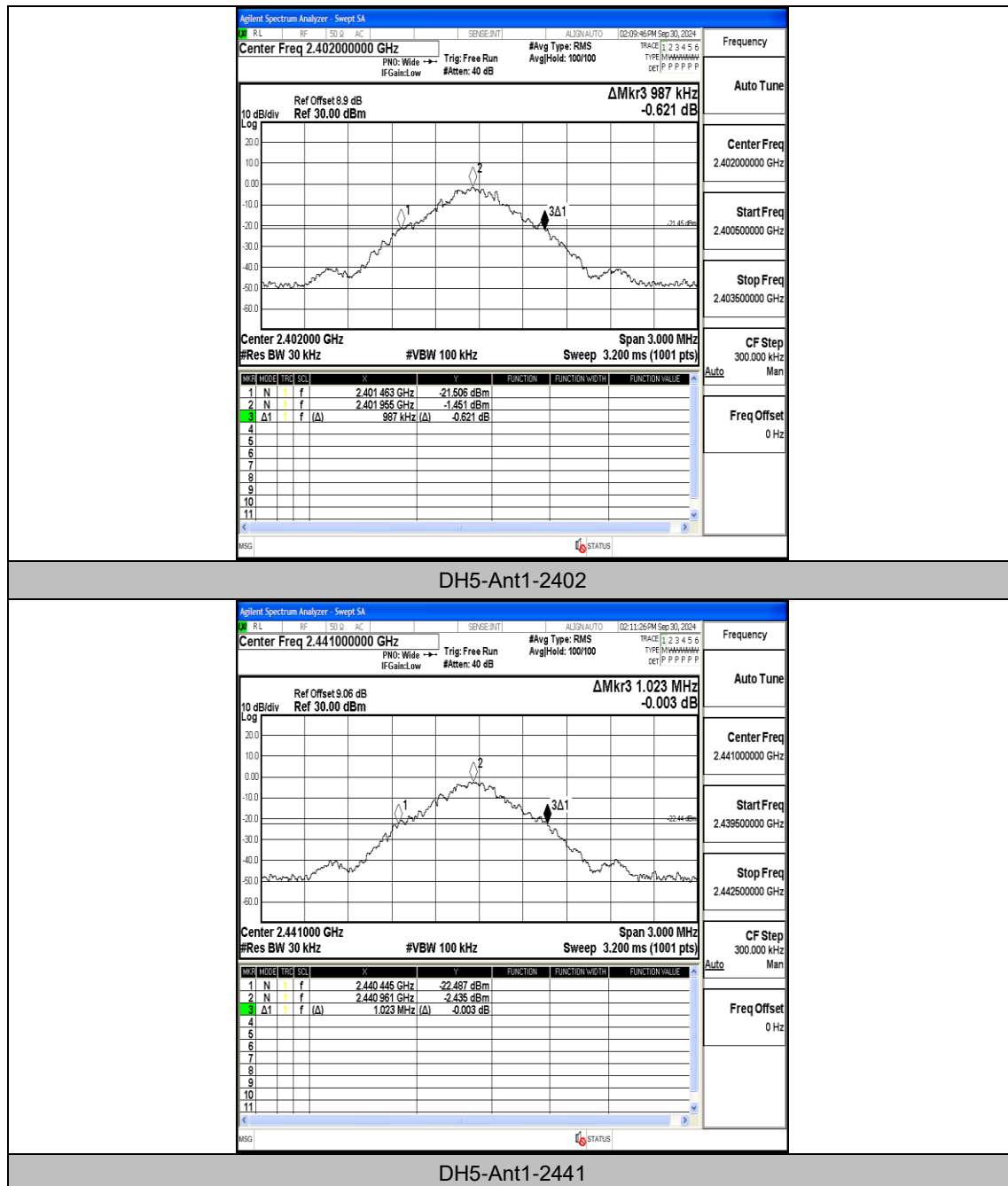
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

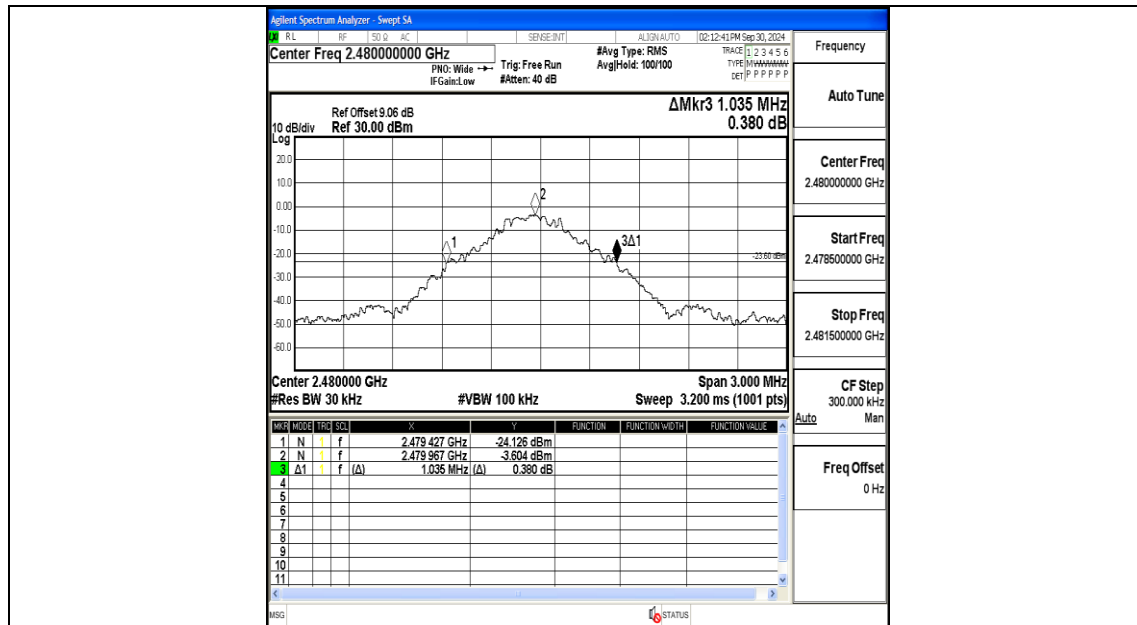
Appendix A: 20dB Emission Bandwidth

Test Result

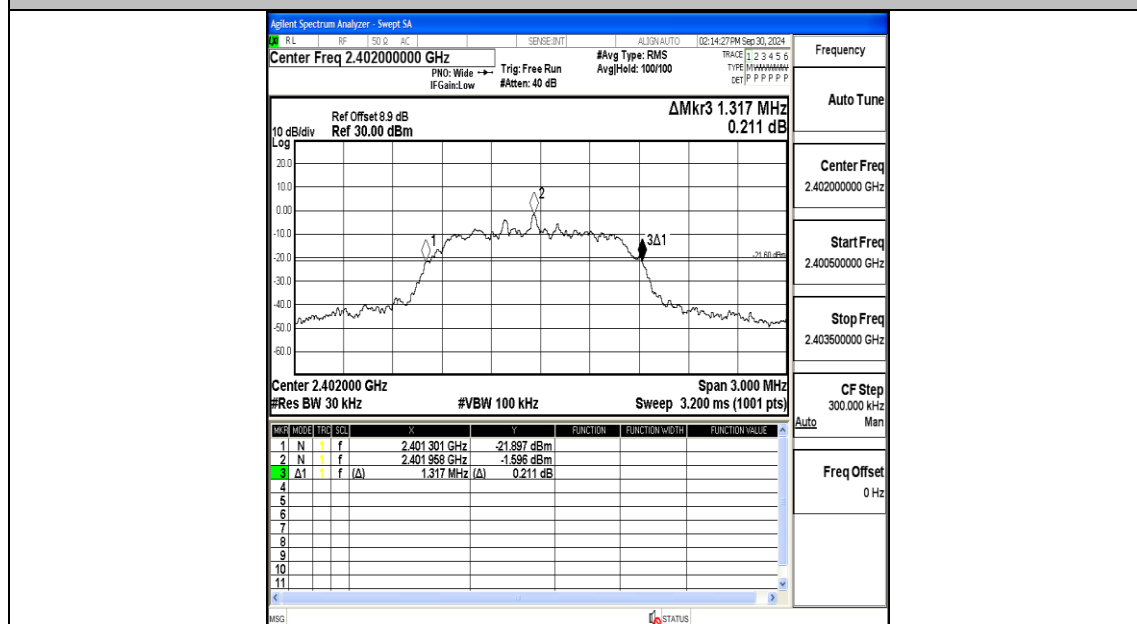
Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.987	2401.463	2402.450	---	---
DH5	Ant1	2441	1.023	2440.445	2441.468	---	---
DH5	Ant1	2480	1.035	2479.427	2480.462	---	---
2DH5	Ant1	2402	1.317	2401.301	2402.618	---	---
2DH5	Ant1	2441	1.344	2440.319	2441.663	---	---
2DH5	Ant1	2480	1.320	2479.334	2480.654	---	---

Test Graphs

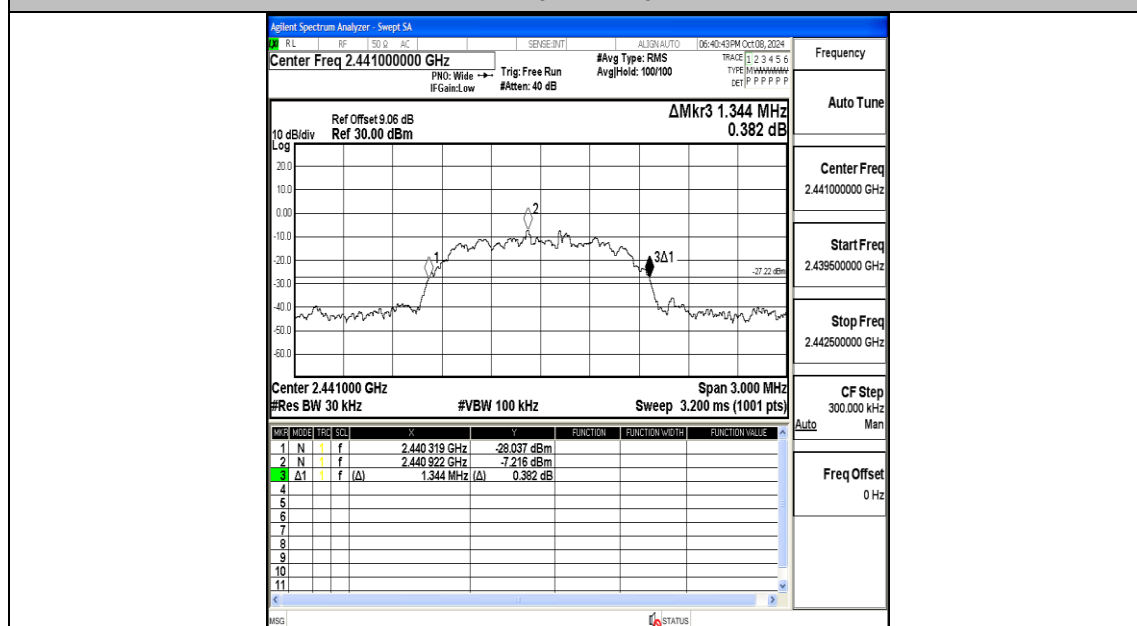




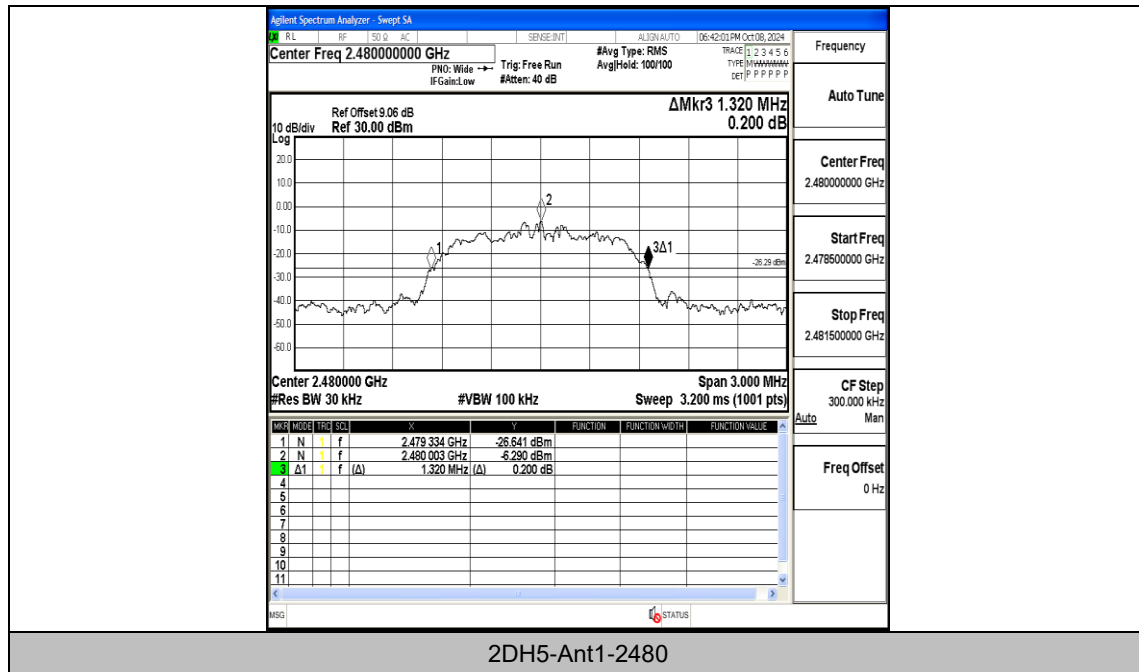
DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441

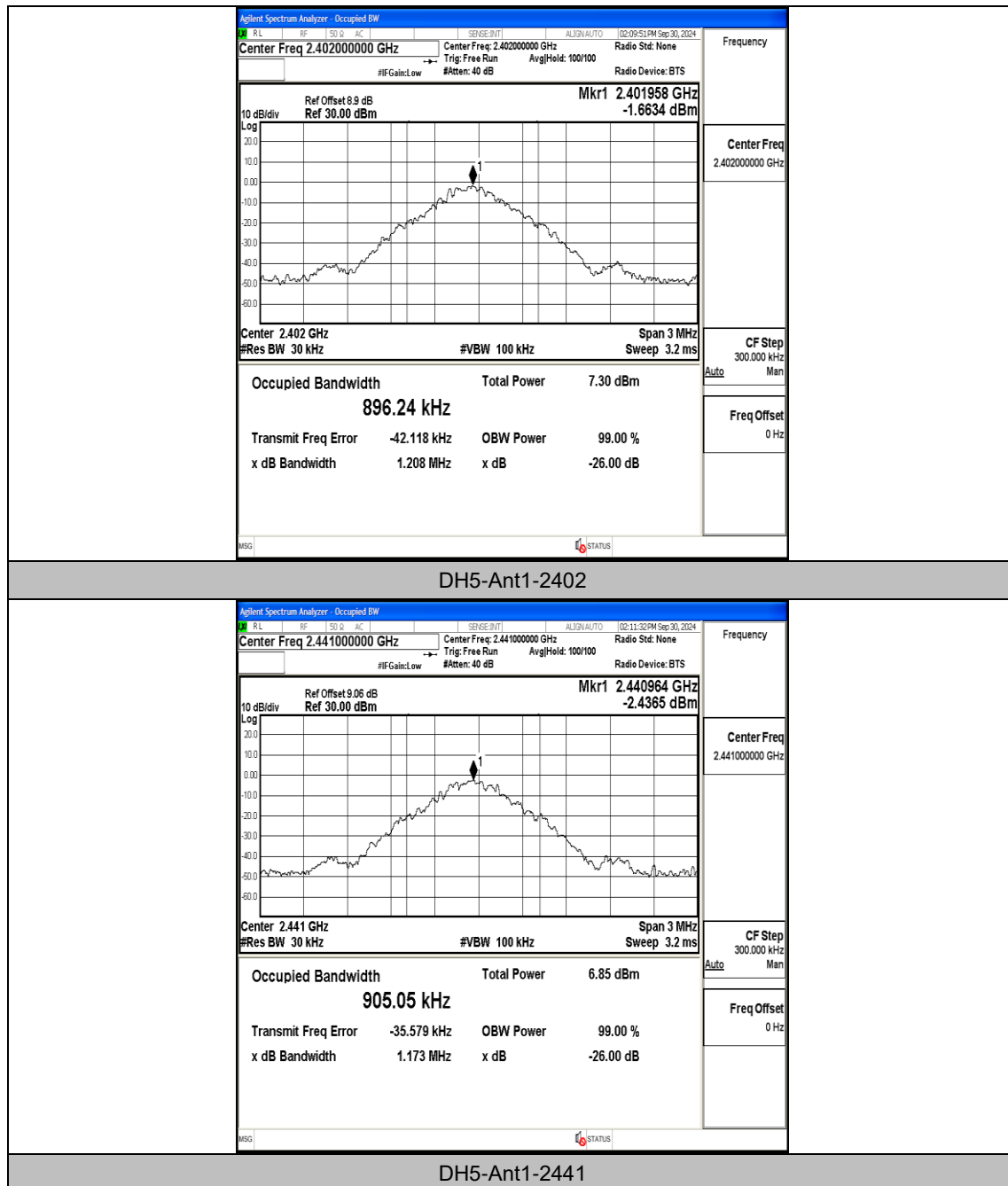


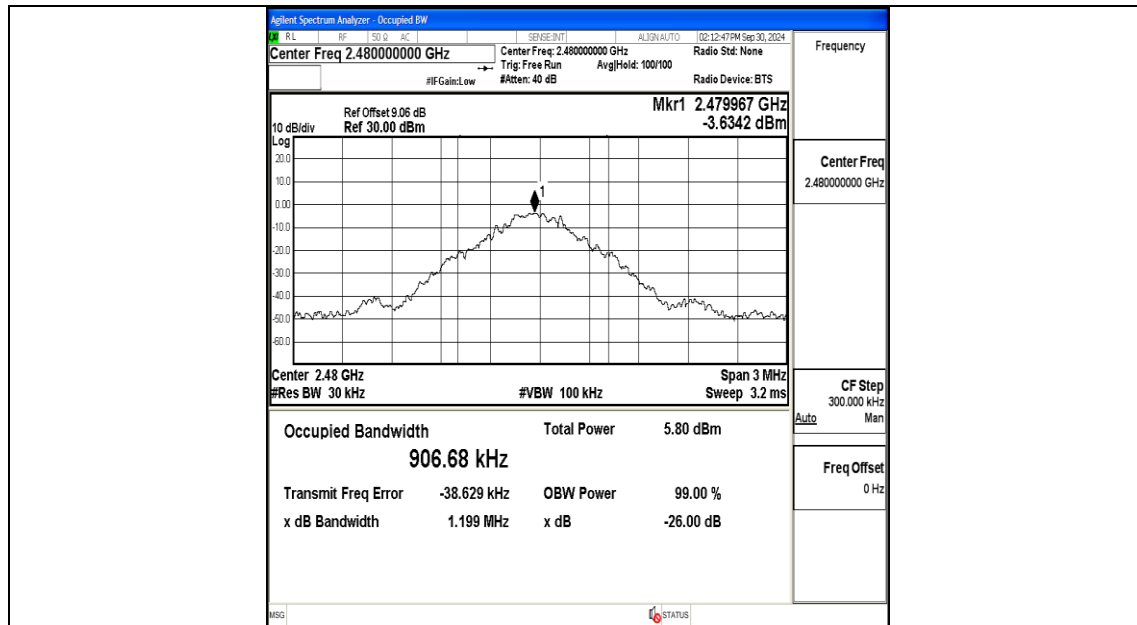
Appendix B: Occupied Channel Bandwidth

Test Result

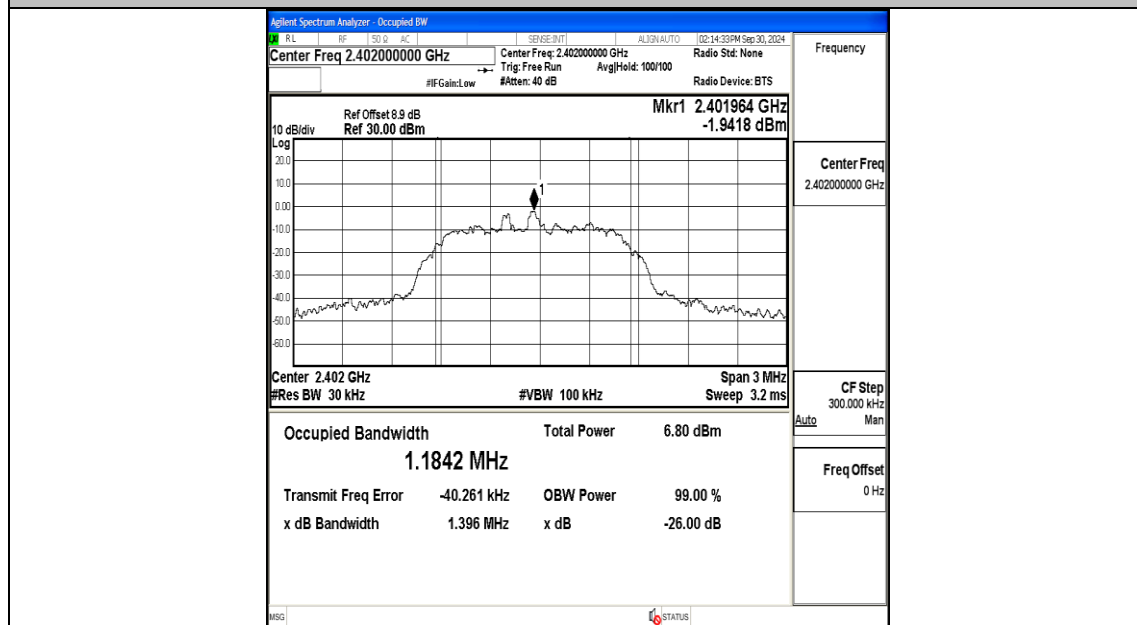
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.89624	2401.5098	2402.4060	---	---
DH5	Ant1	2441	0.90505	2440.5119	2441.4169	---	---
DH5	Ant1	2480	0.90668	2479.5080	2480.4147	---	---
2DH5	Ant1	2402	1.1842	2401.3676	2402.5518	---	---
2DH5	Ant1	2441	1.2050	2440.3903	2441.5953	---	---
2DH5	Ant1	2480	1.1928	2479.3960	2480.5888	---	---

Test Graphs

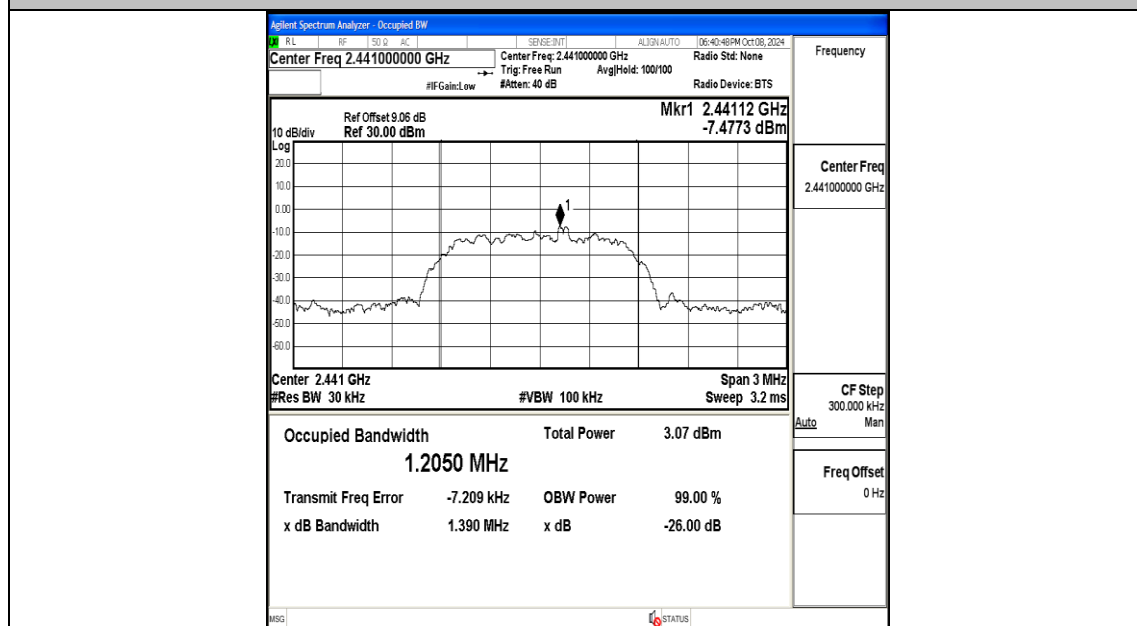




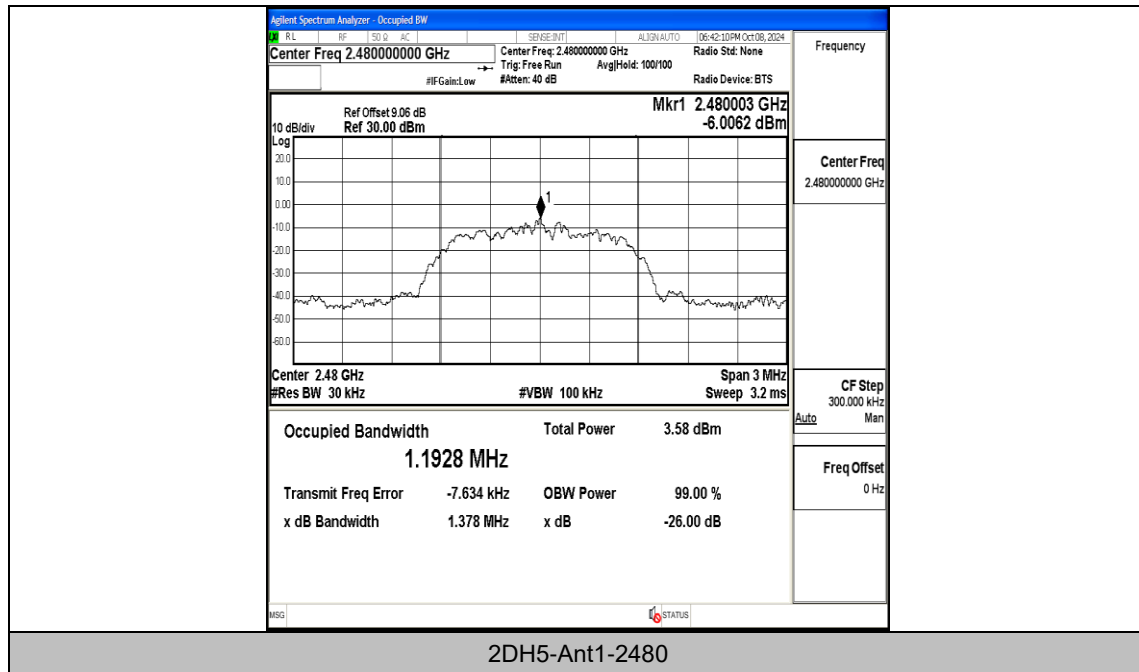
DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441

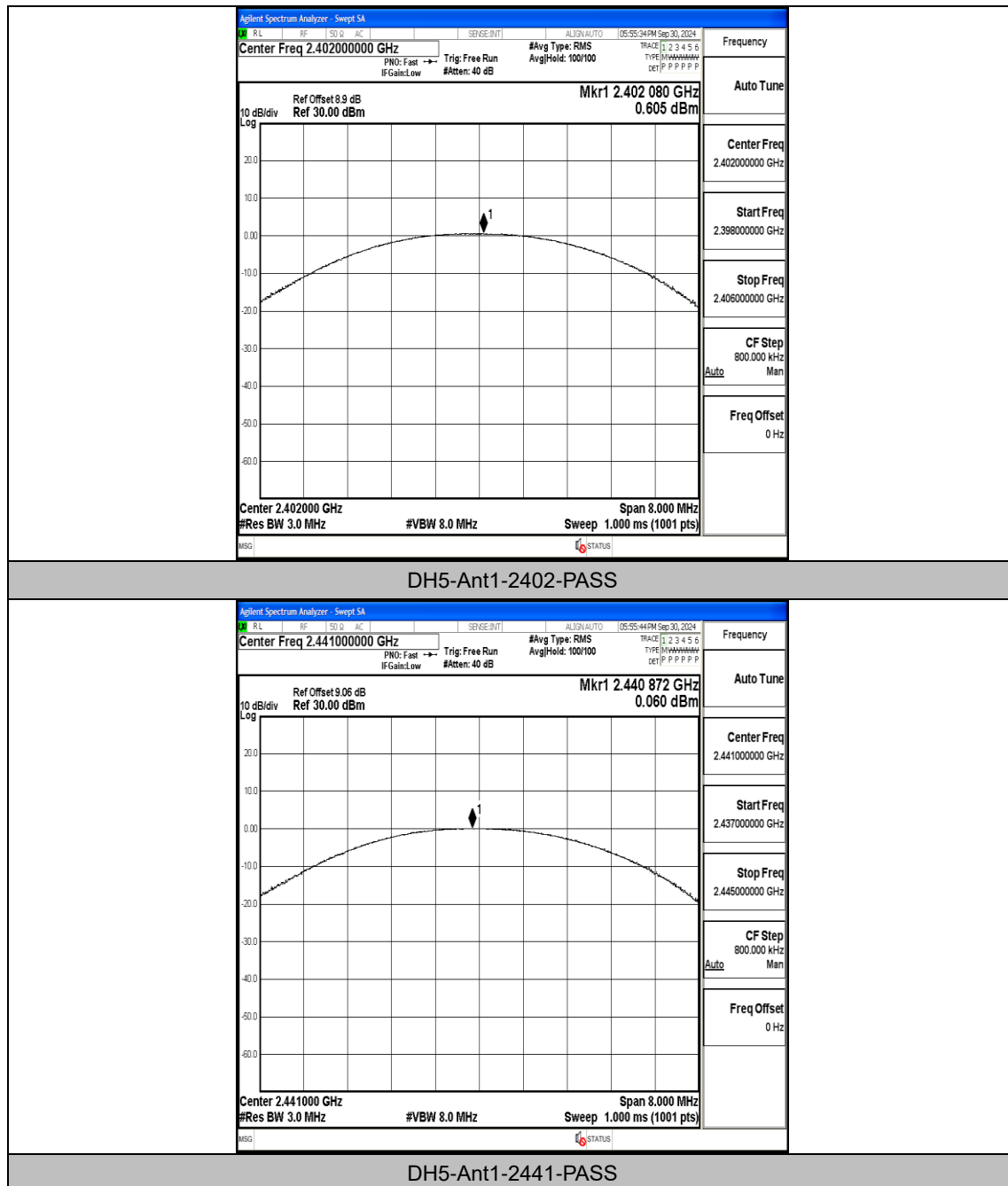


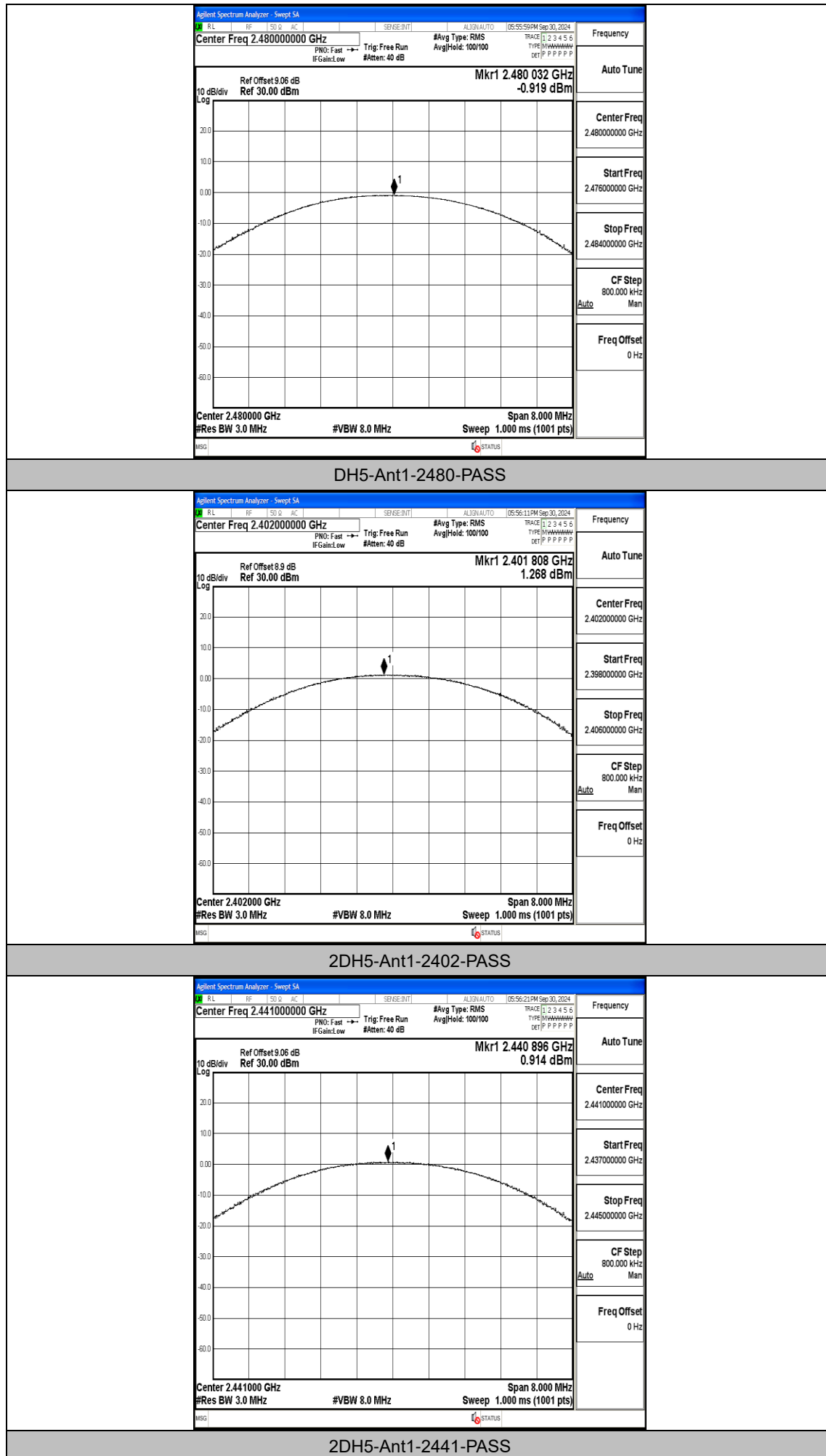
Appendix C: Maximum peak conducted output power

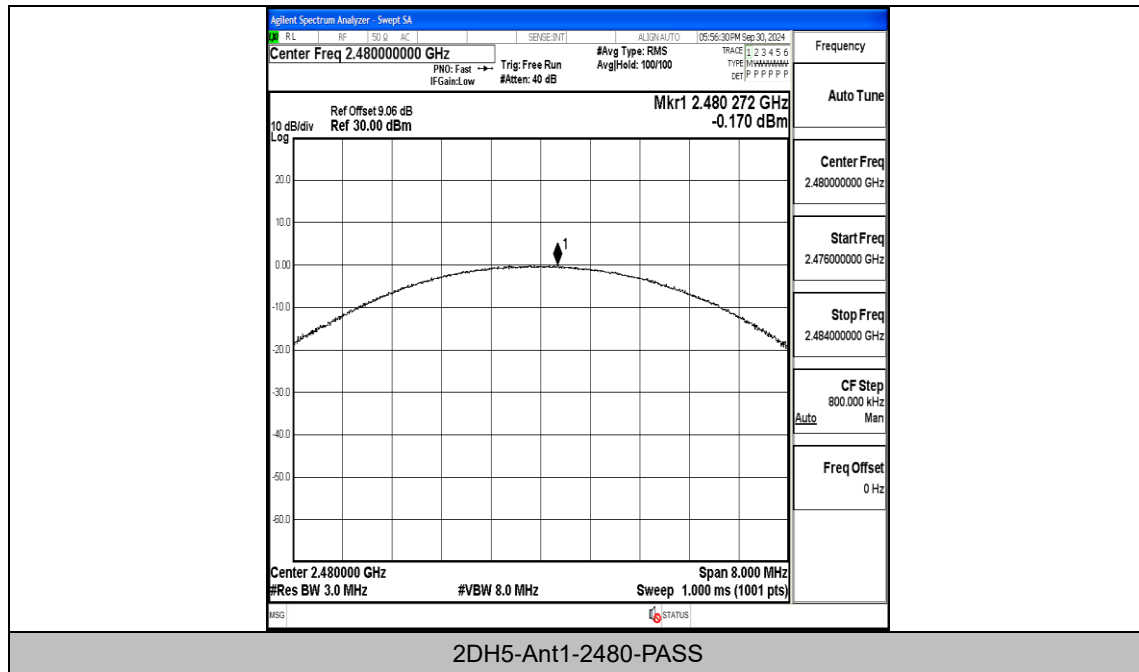
Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	0.61	≤20.97	PASS
DH5	Ant1	2441	0.06	≤20.97	PASS
DH5	Ant1	2480	-0.92	≤20.97	PASS
2DH5	Ant1	2402	1.27	≤20.97	PASS
2DH5	Ant1	2441	0.91	≤20.97	PASS
2DH5	Ant1	2480	-0.17	≤20.97	PASS

Test Graphs





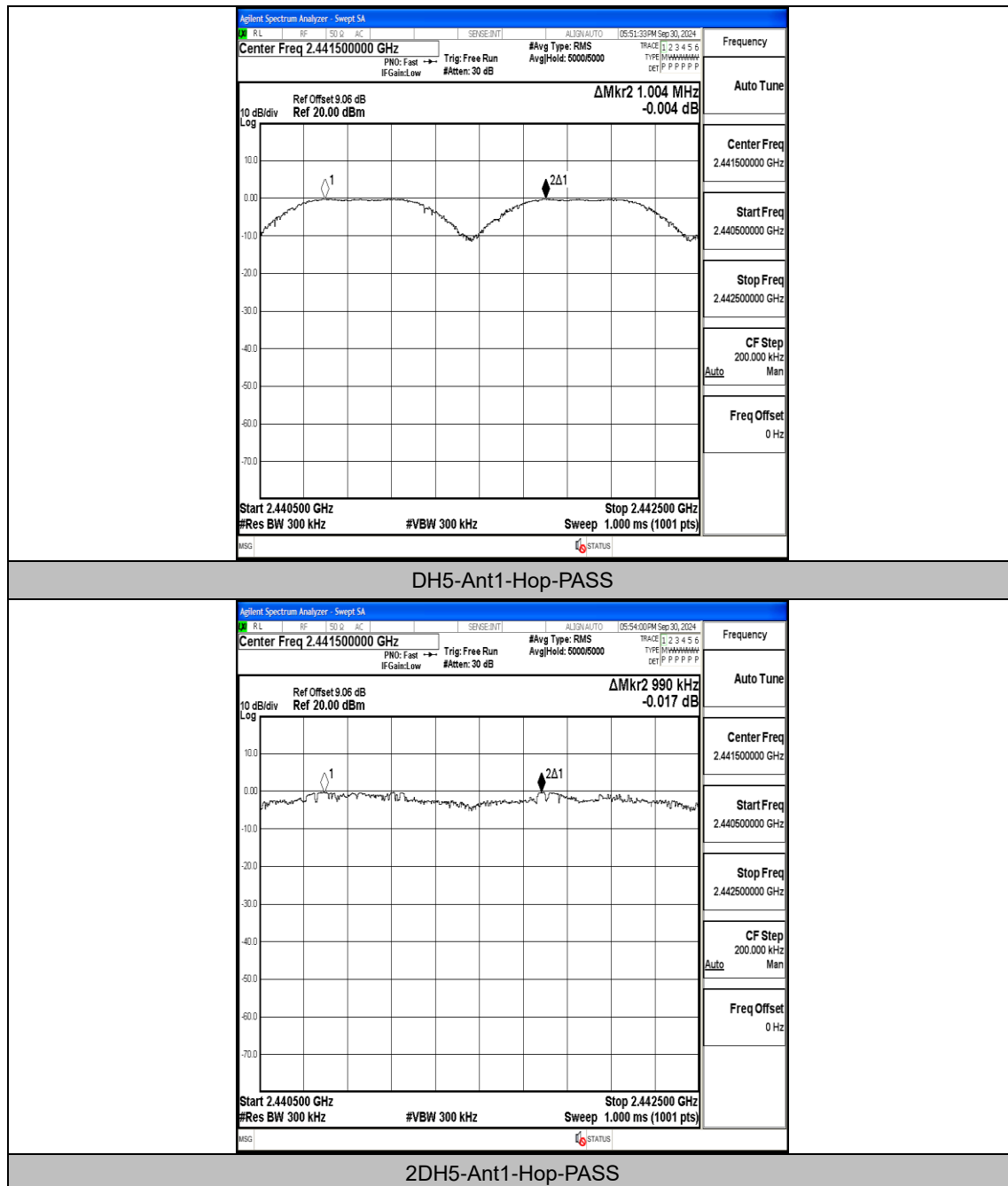


Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.004	≥ 0.690	PASS
2DH5	Ant1	Hop	0.99	≥ 0.878	PASS

Test Graphs

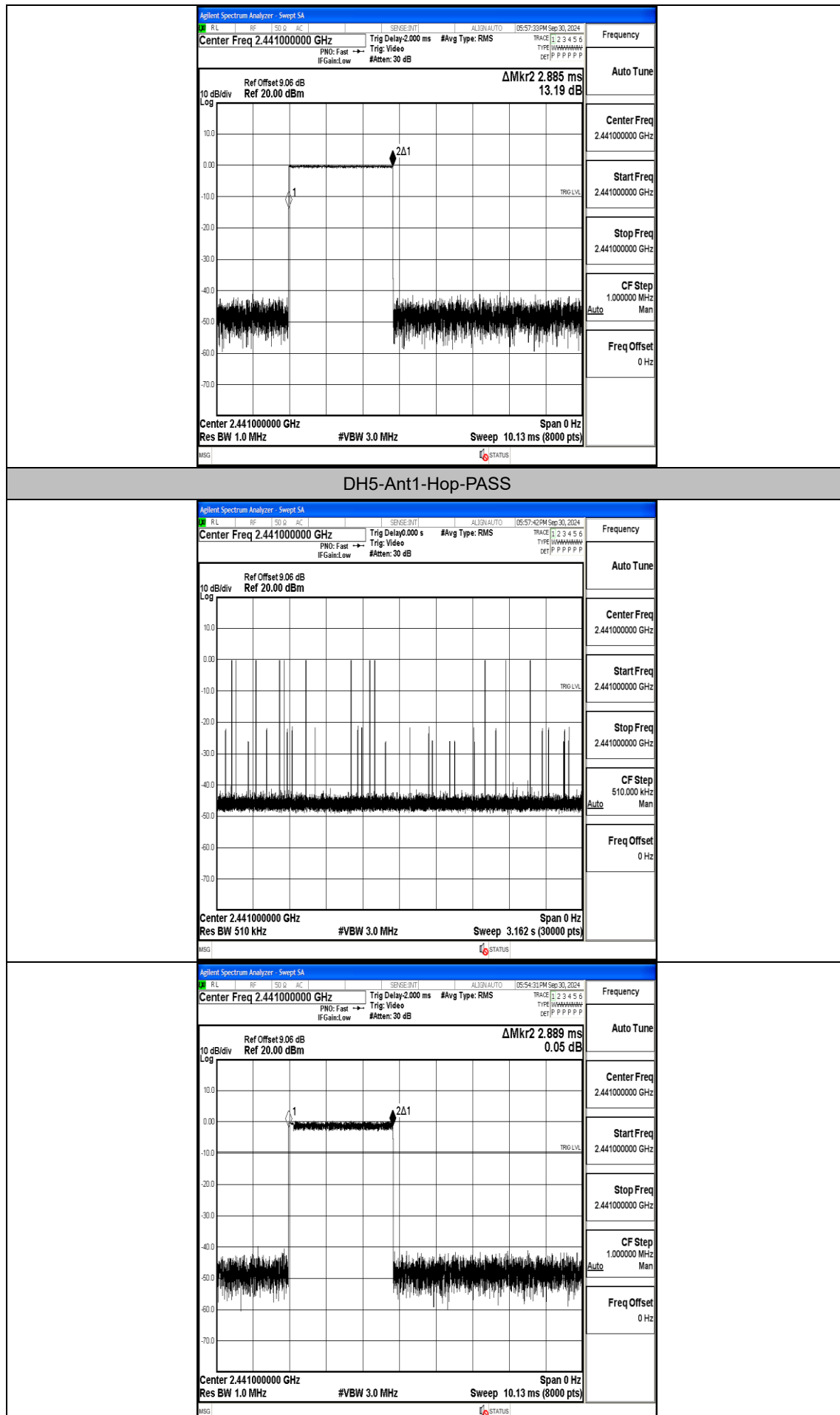


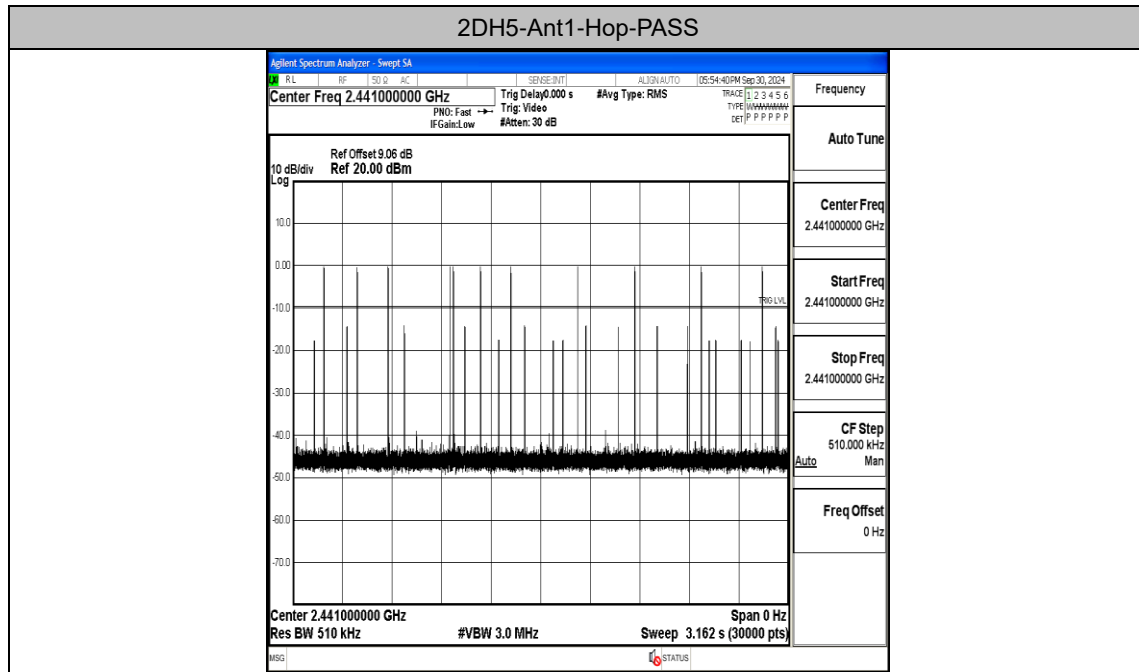
Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.885	130	0.375	≤0.4	PASS
2DH5	Ant1	Hop	2.889	120	0.347	≤0.4	PASS

Test Graphs





Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

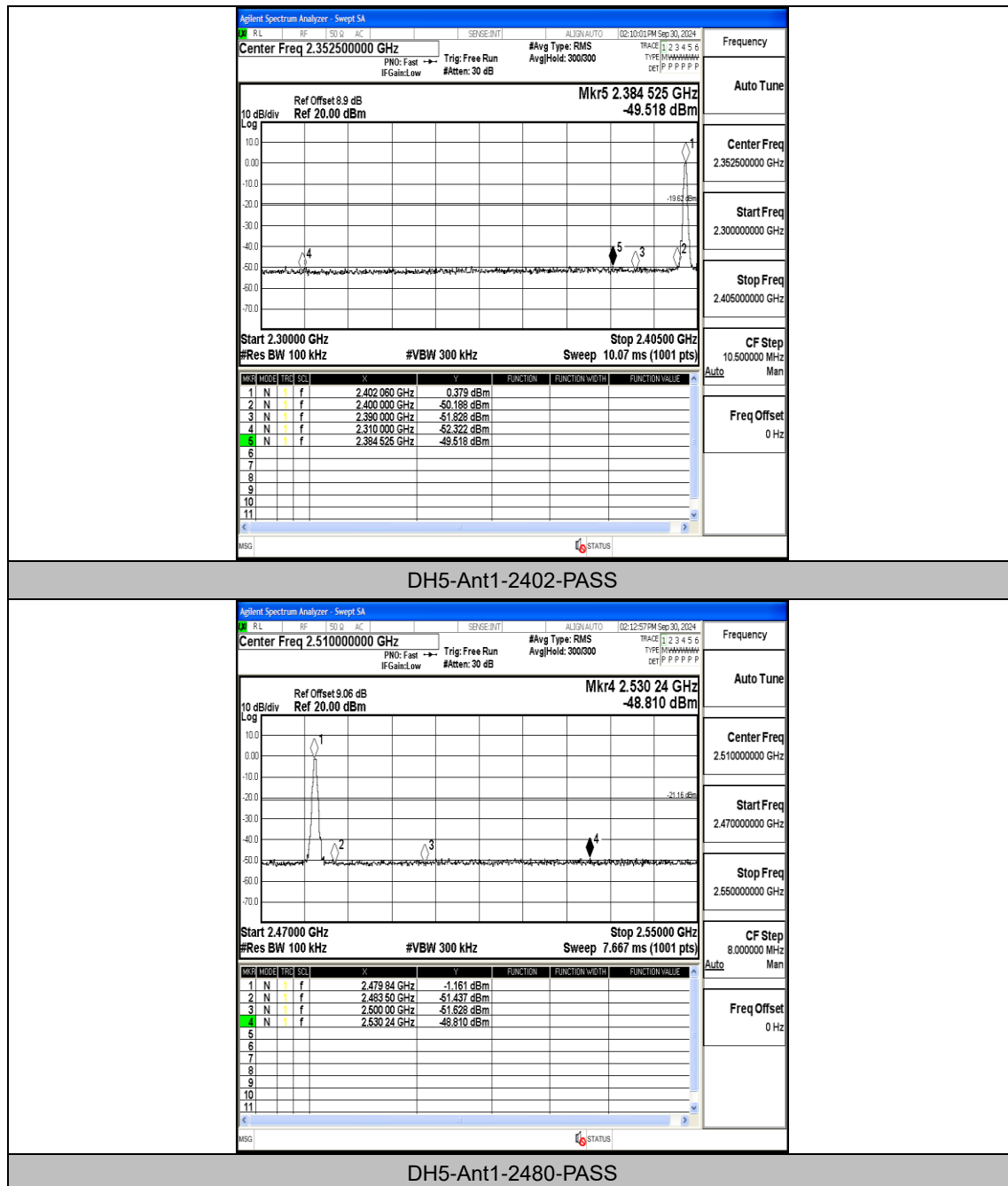


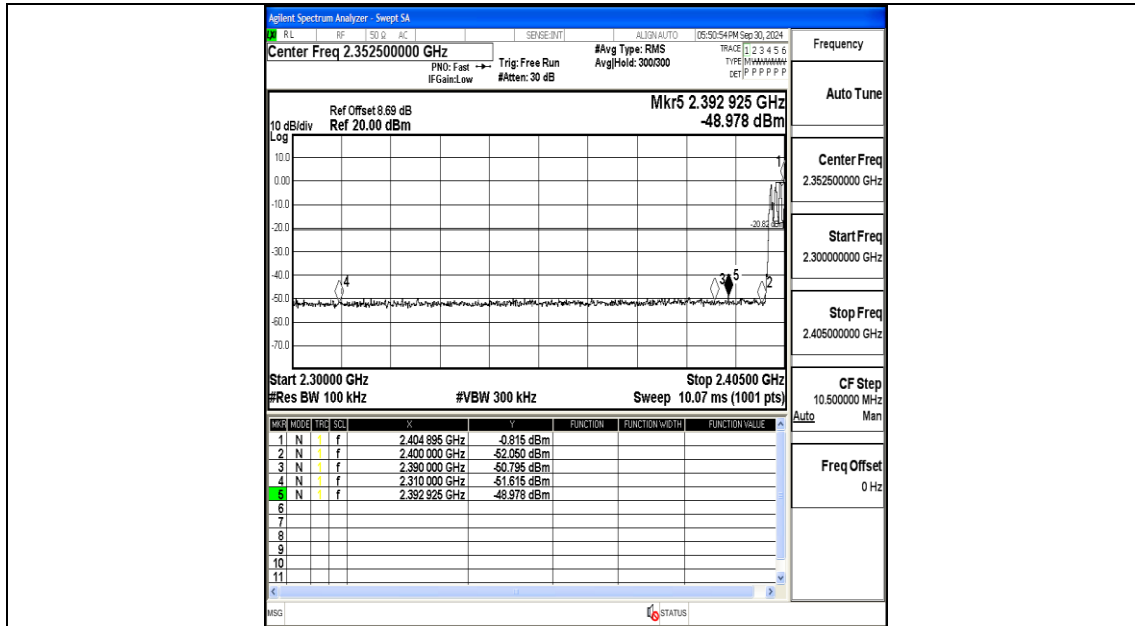
Appendix G: Band edge measurements

Test Result

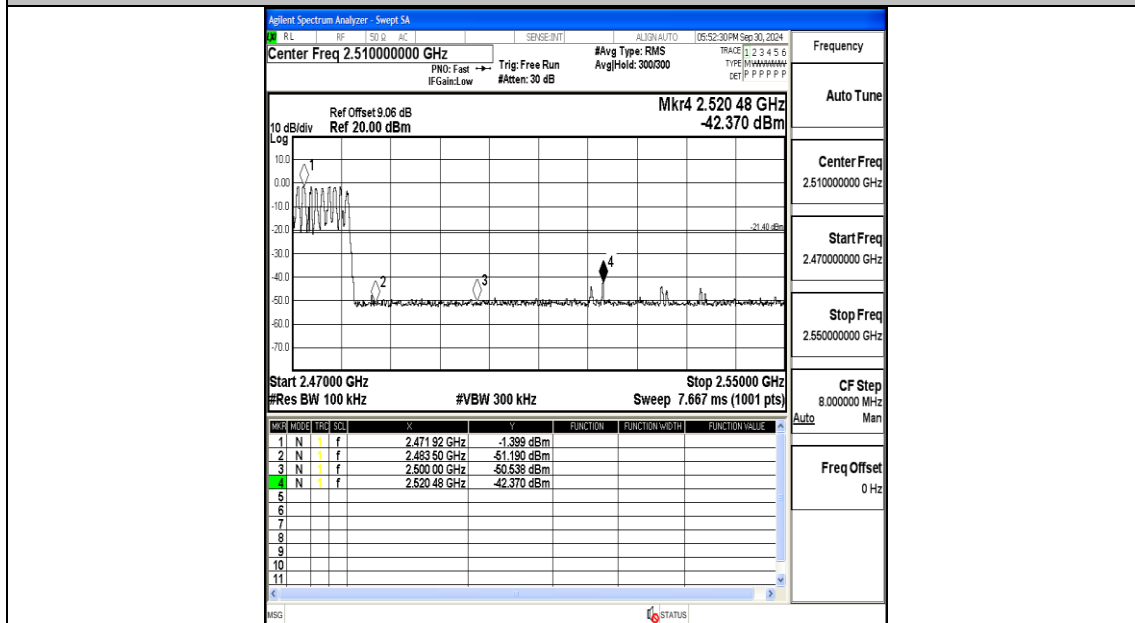
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.38	-49.52	≤-19.62	PASS
DH5	Ant1	High	2480	-1.16	-48.81	≤-21.16	PASS
DH5	Ant1	Low	Hop_2402	-0.82	-48.98	≤-20.82	PASS
DH5	Ant1	High	Hop_2480	-1.40	-42.37	≤-21.4	PASS
2DH5	Ant1	Low	2402	0.05	-49.27	≤-19.95	PASS
2DH5	Ant1	High	2480	-4.05	-48.12	≤-24.05	PASS
2DH5	Ant1	Low	Hop_2402	-2.81	-48.61	≤-22.81	PASS
2DH5	Ant1	High	Hop_2480	-4.82	-43.39	≤-24.82	PASS

Test Graphs

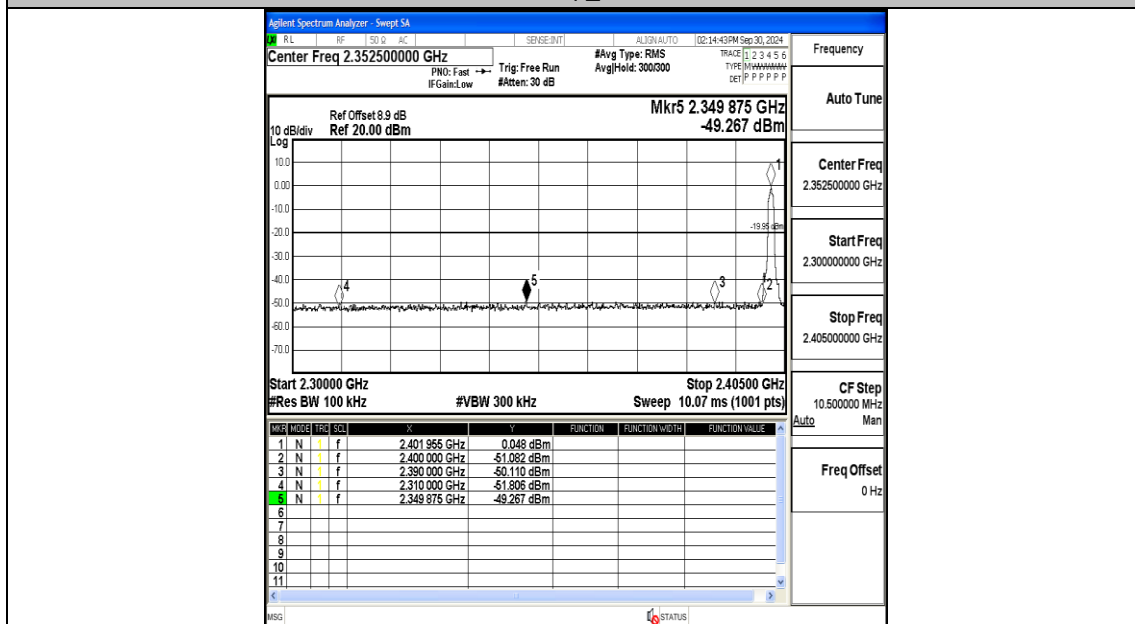




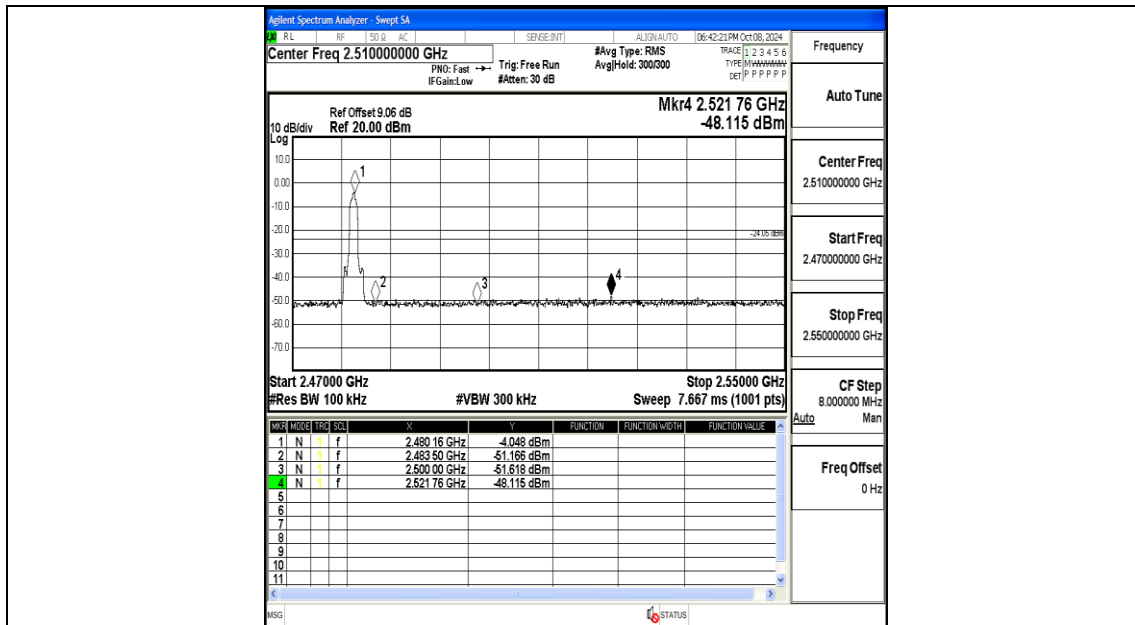
DH5-Ant1-Hop_2402-PASS



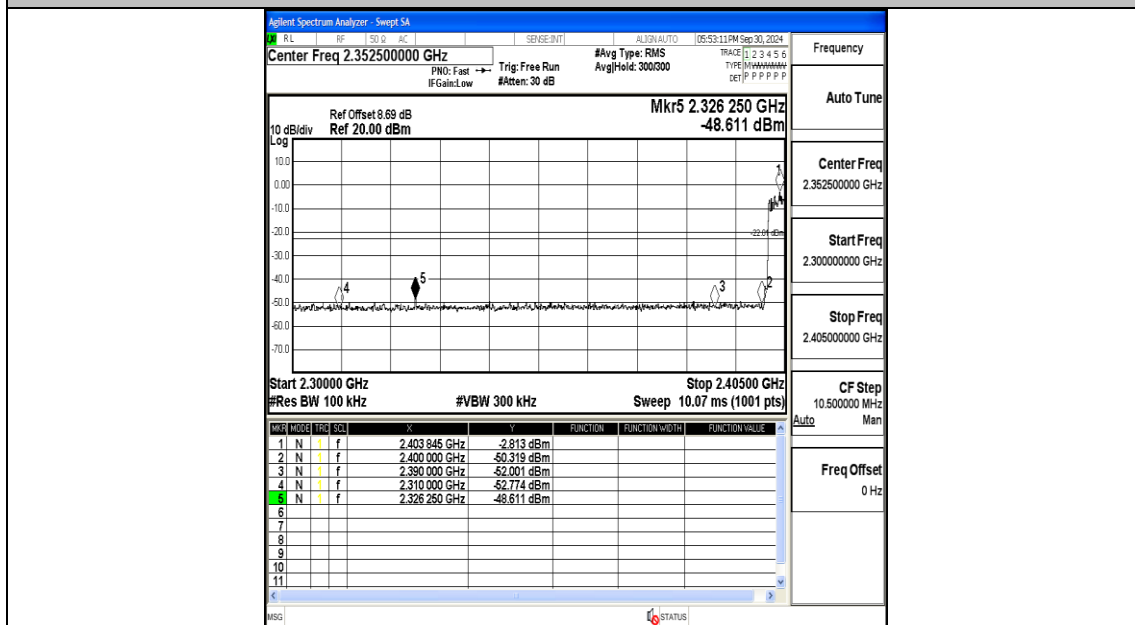
DH5-Ant1-Hop_2480-PASS



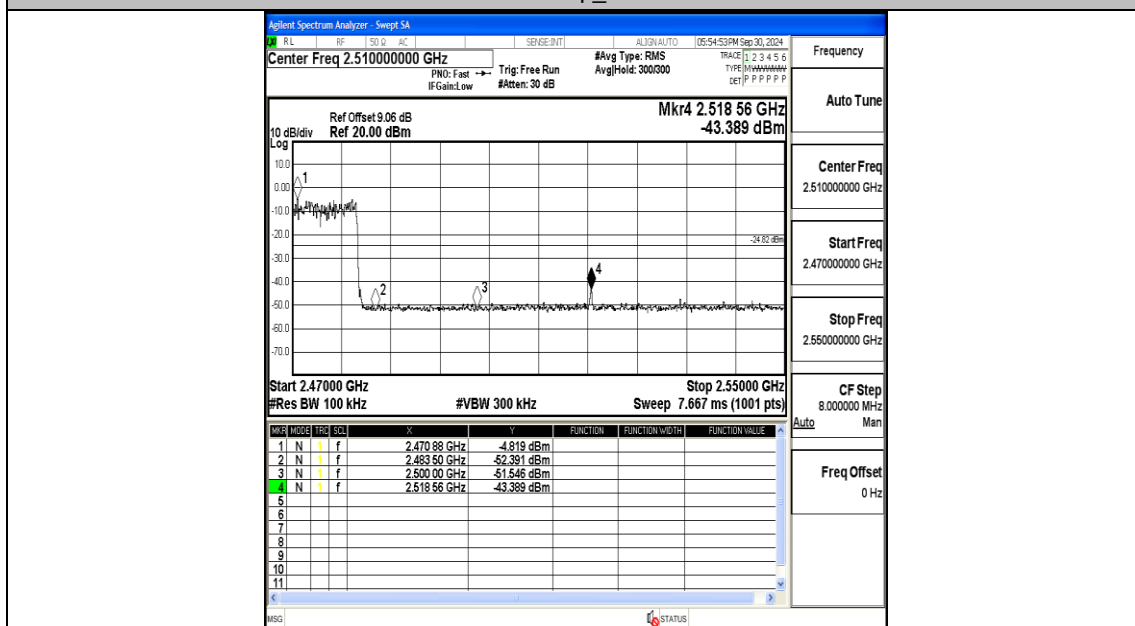
2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS



2DH5-Ant1-Hop_2402-PASS



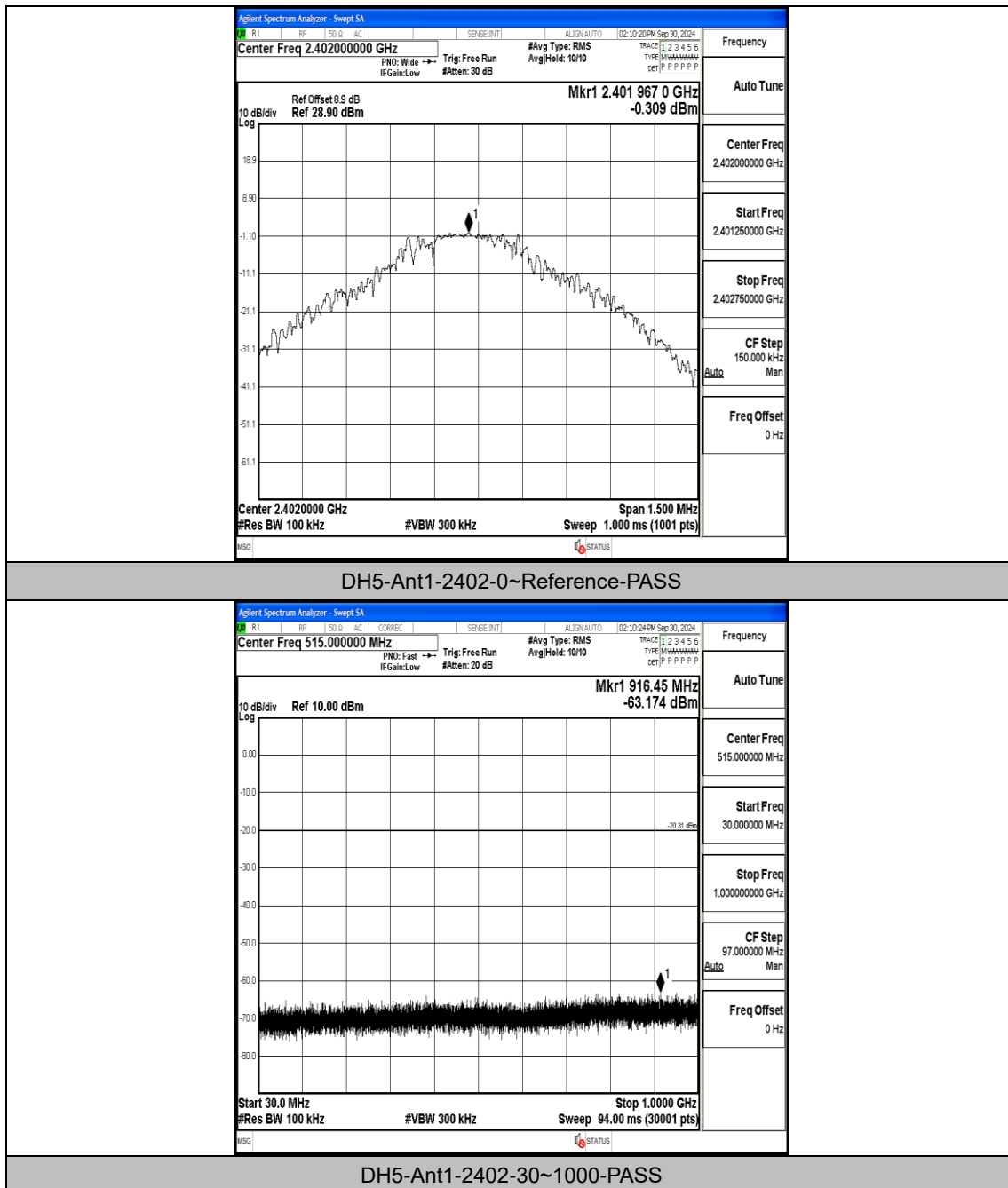
2DH5-Ant1-Hop_2480-PASS

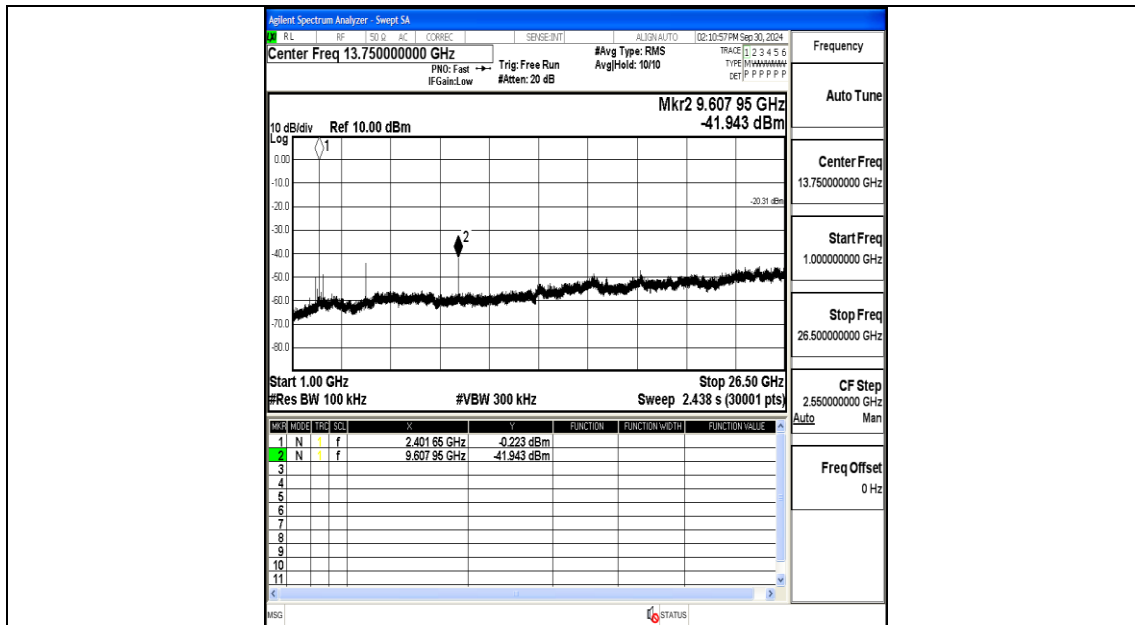
Appendix H: Conducted Spurious Emission

Test Result

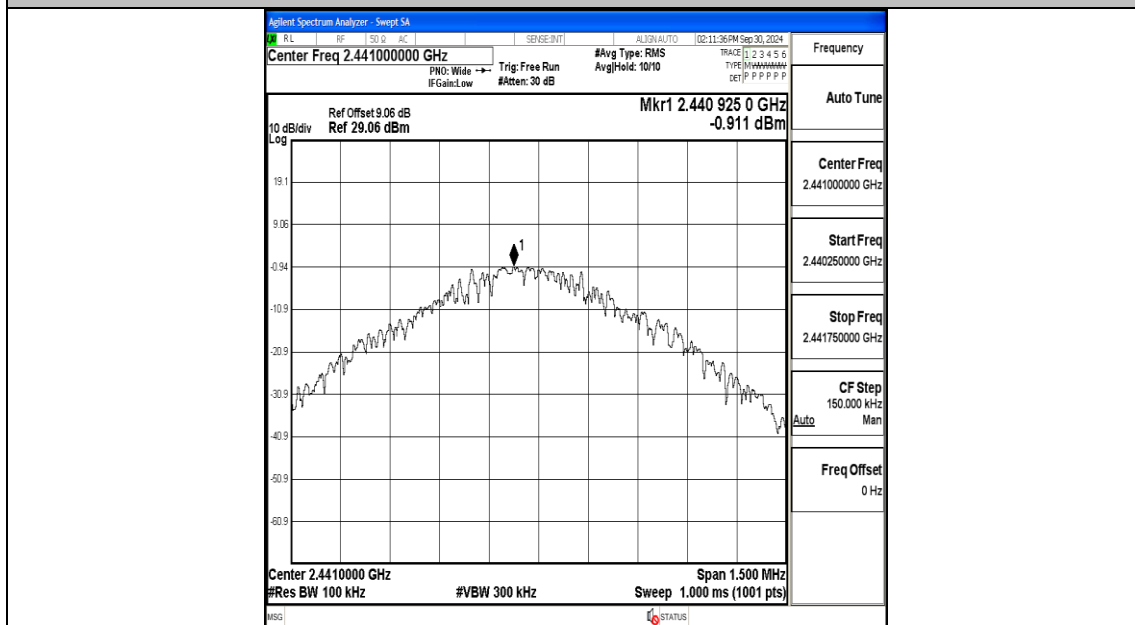
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-0.31	-0.31	---	PASS
DH5	Ant1	2402	30~1000	-0.31	-63.17	≤-20.31	PASS
DH5	Ant1	2402	1000~26500	-0.31	-41.94	≤-20.31	PASS
DH5	Ant1	2441	0~Reference	-0.91	-0.91	---	PASS
DH5	Ant1	2441	30~1000	-0.91	-62.97	≤-20.91	PASS
DH5	Ant1	2441	1000~26500	-0.91	-40.99	≤-20.91	PASS
DH5	Ant1	2480	0~Reference	-1.69	-1.69	---	PASS
DH5	Ant1	2480	30~1000	-1.69	-62.7	≤-21.69	PASS
DH5	Ant1	2480	1000~26500	-1.69	-43.4	≤-21.69	PASS
2DH5	Ant1	2402	0~Reference	-3.49	-3.49	---	PASS
2DH5	Ant1	2402	30~1000	-3.49	-62.76	≤-23.49	PASS
2DH5	Ant1	2402	1000~26500	-3.49	-41.63	≤-23.49	PASS
2DH5	Ant1	2441	0~Reference	-7.23	-7.23	---	PASS
2DH5	Ant1	2441	30~1000	-7.23	-63.13	≤-27.23	PASS
2DH5	Ant1	2441	1000~26500	-7.23	-45.6	≤-27.23	PASS
2DH5	Ant1	2480	0~Reference	-6.24	-6.24	---	PASS
2DH5	Ant1	2480	30~1000	-6.24	-62.43	≤-26.24	PASS
2DH5	Ant1	2480	1000~26500	-6.24	-44.44	≤-26.24	PASS

Test Graphs

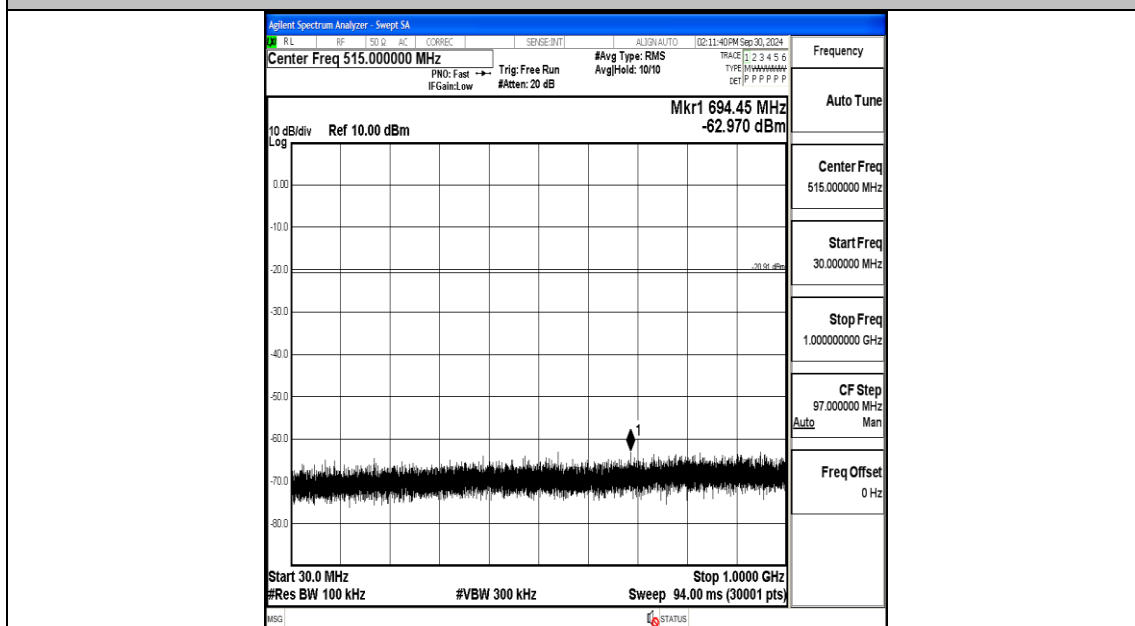




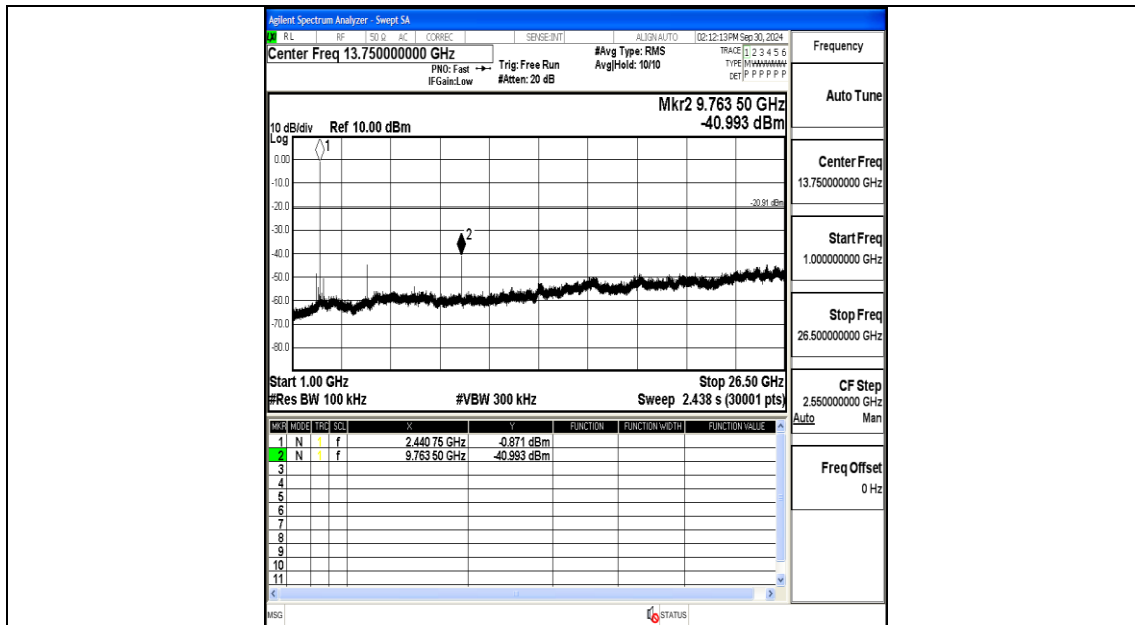
DH5-Ant1-2402-1000~26500-PASS



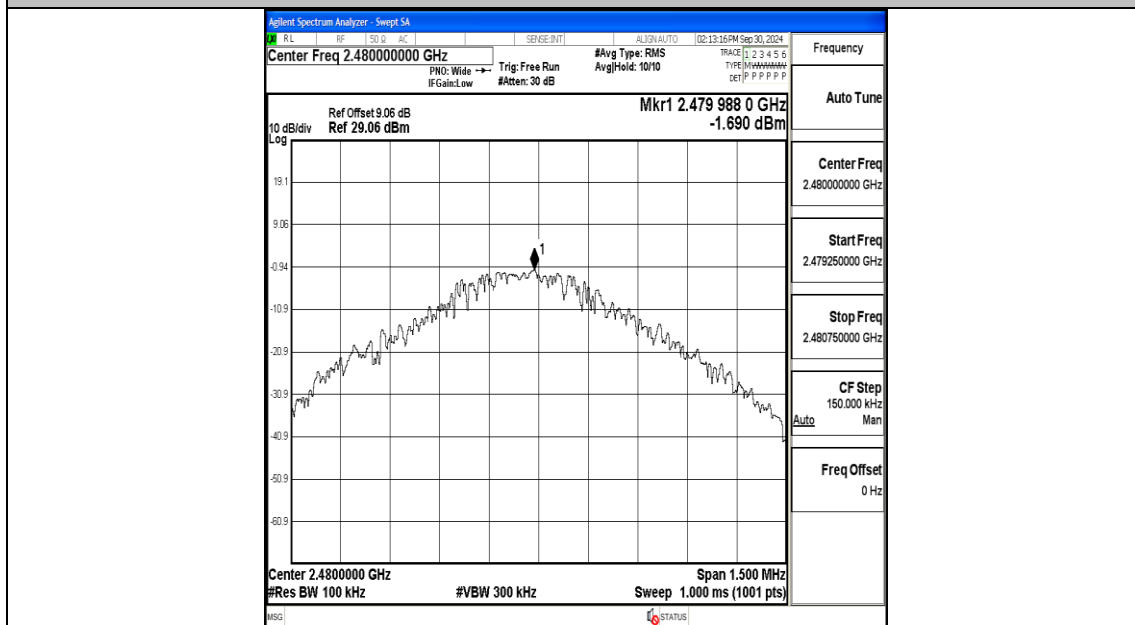
DH5-Ant1-2441-0~Reference-PASS



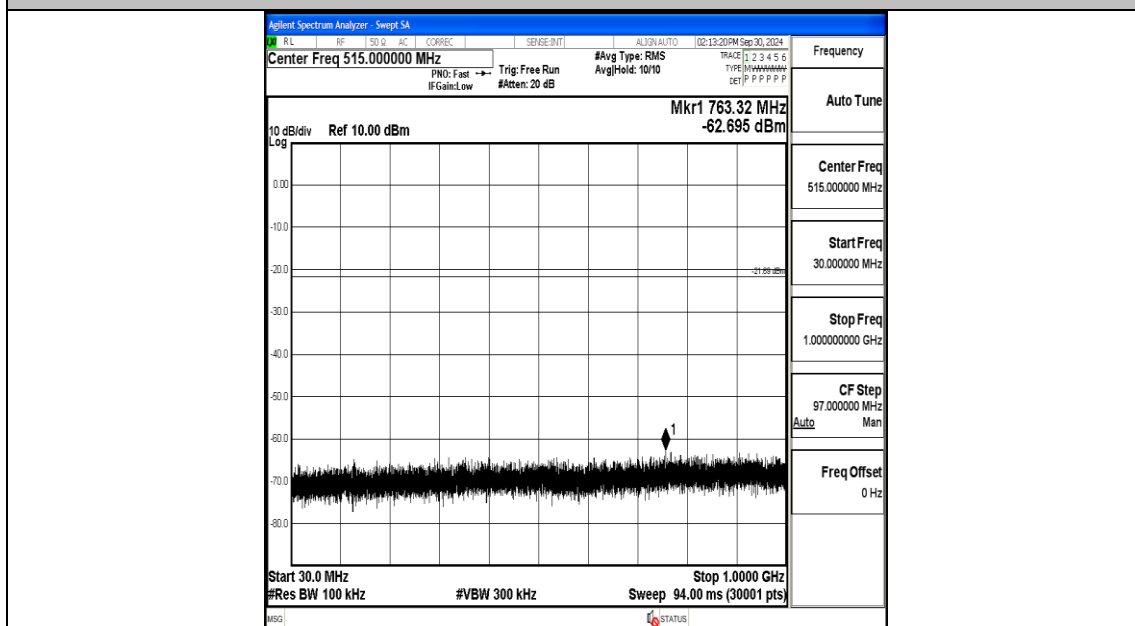
DH5-Ant1-2441-30~1000-PASS



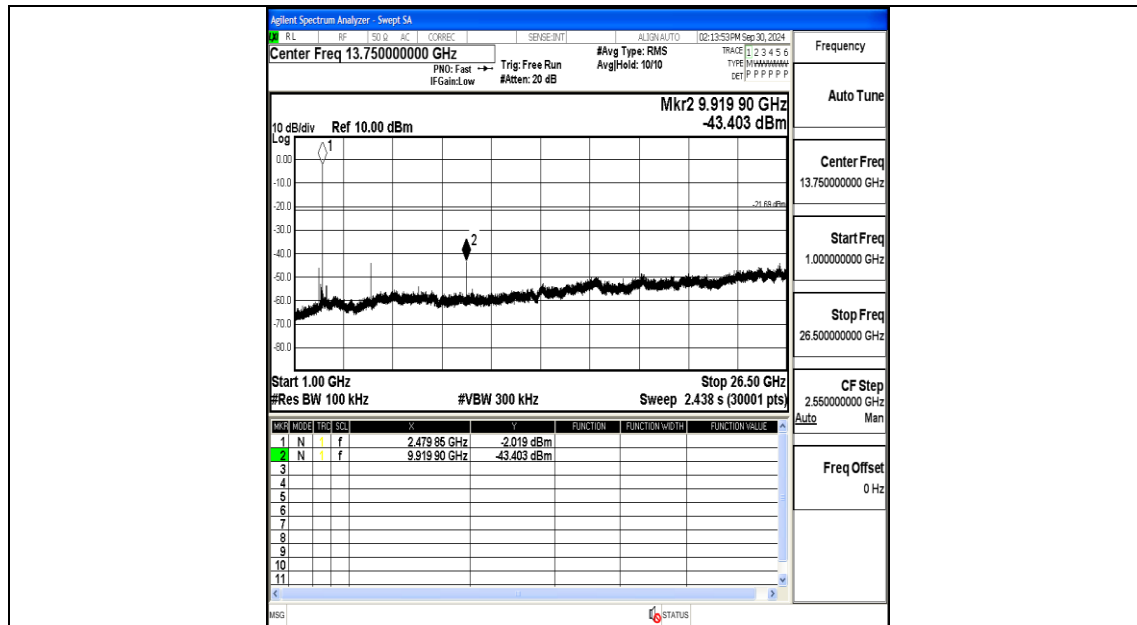
DH5-Ant1-2441-1000~26500-PASS



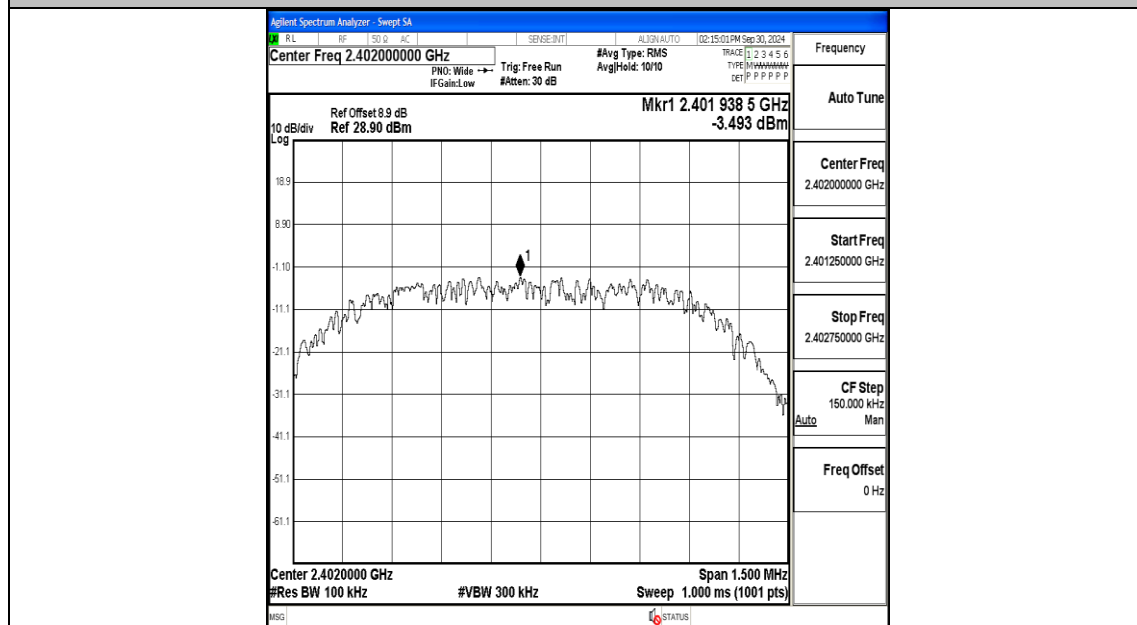
DH5-Ant1-2480-0~Reference-PASS



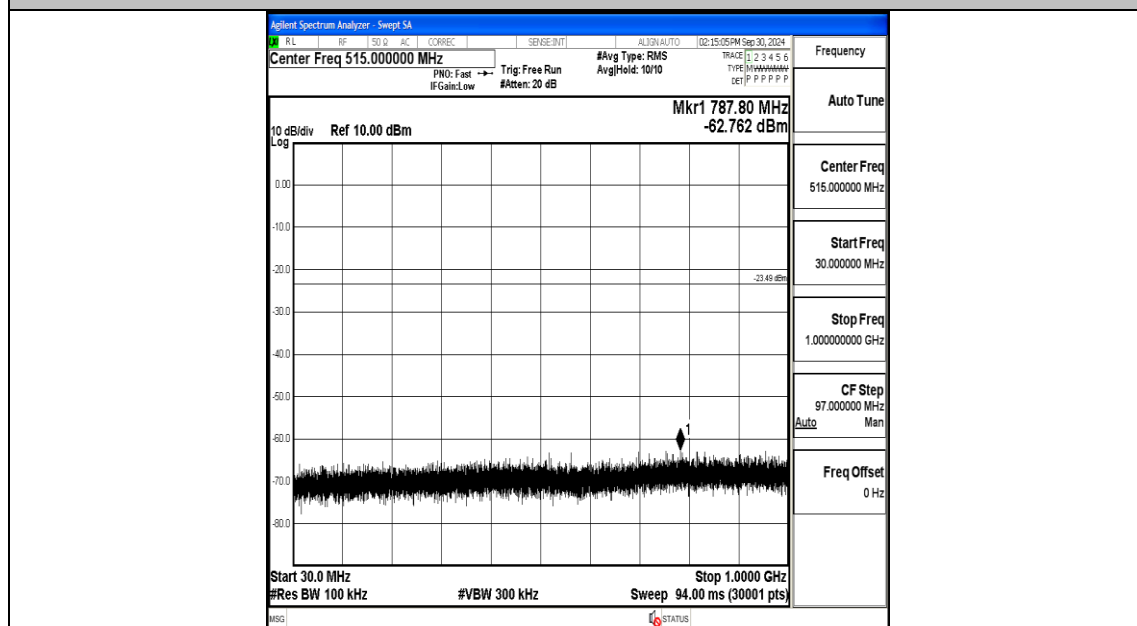
DH5-Ant1-2480-30~1000-PASS



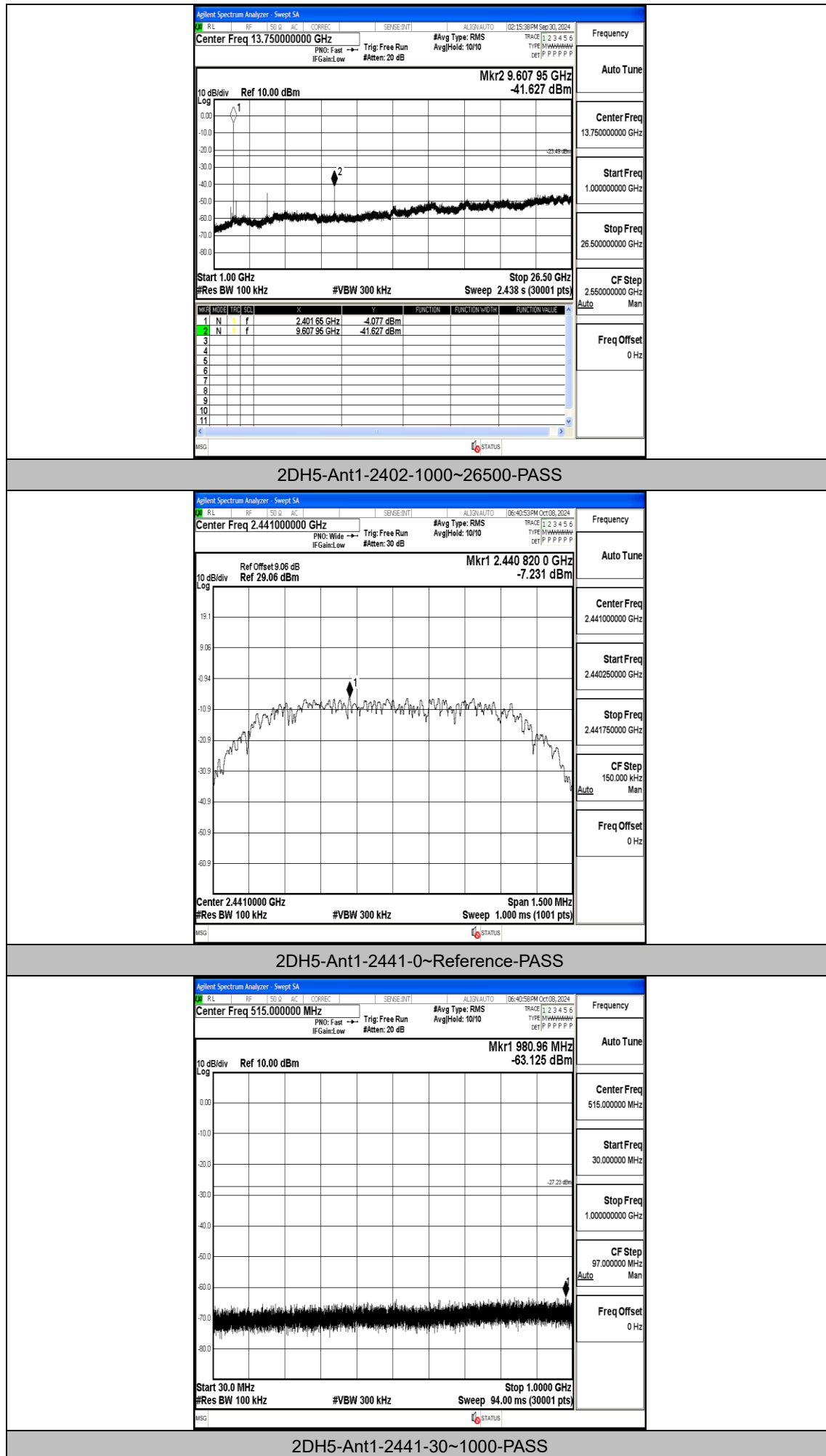
DH5-Ant1-2480-1000~26500-PASS

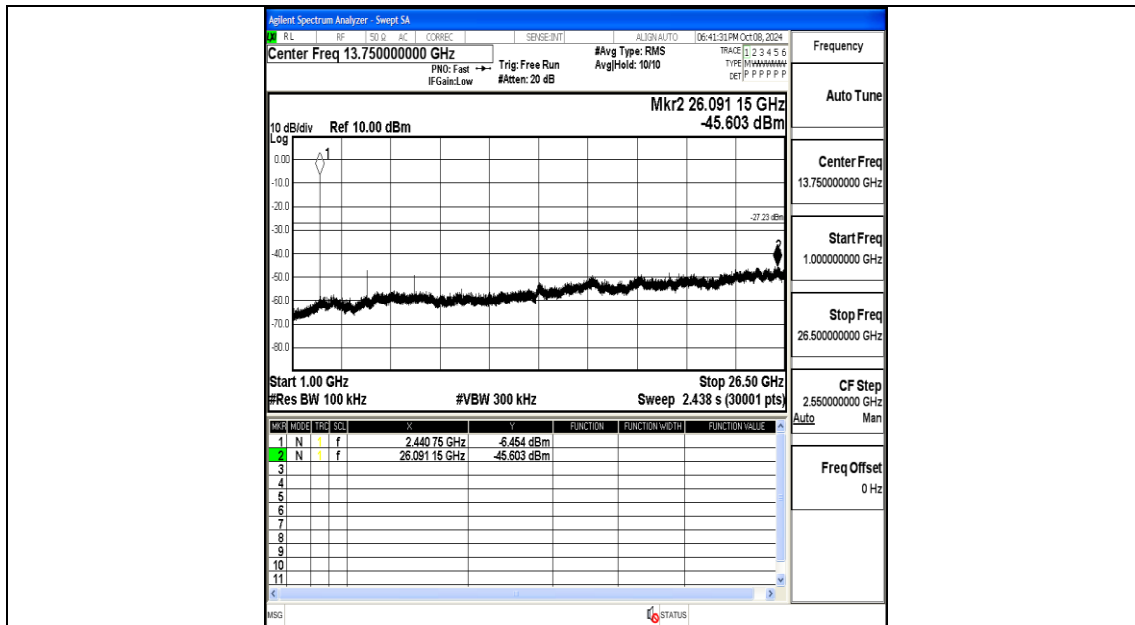


2DH5-Ant1-2402-0~Reference-PASS

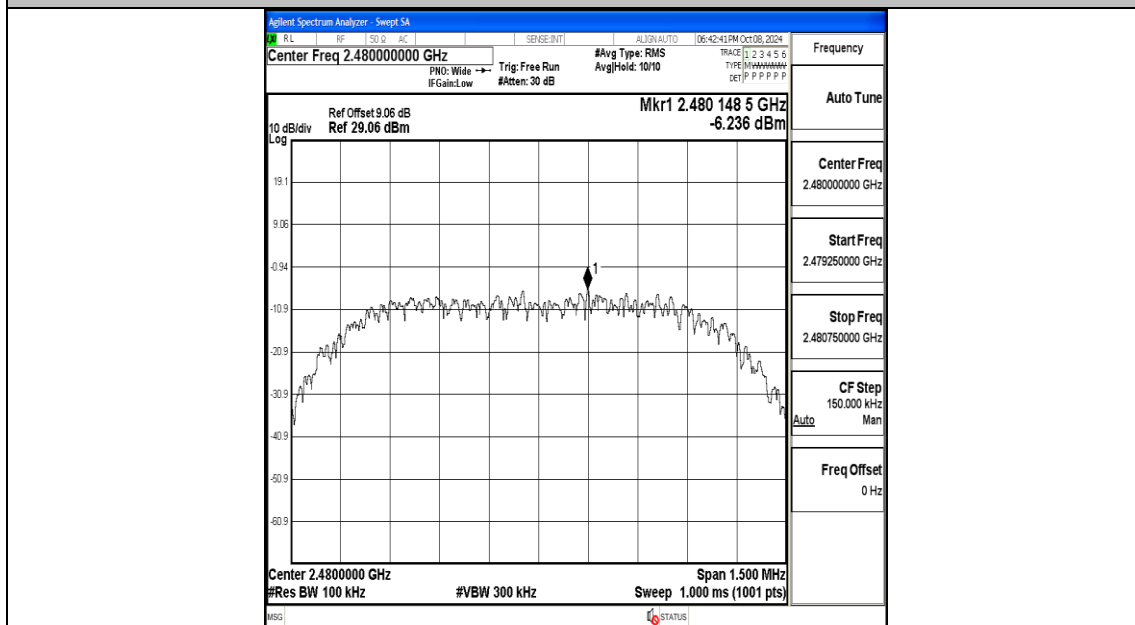


2DH5-Ant1-2402-30~1000-PASS

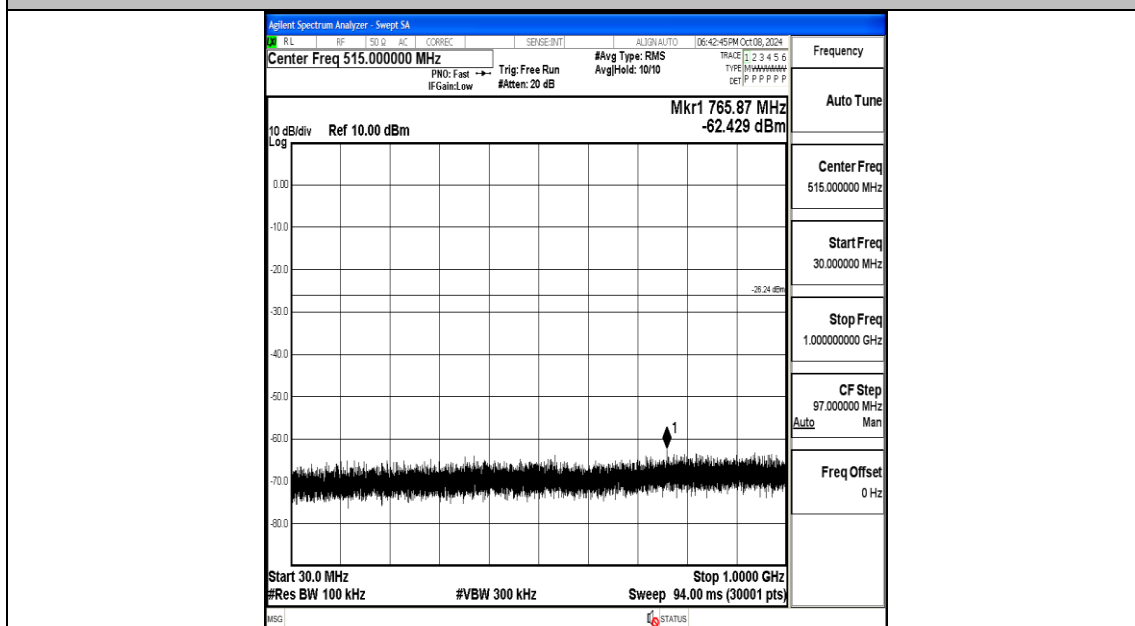




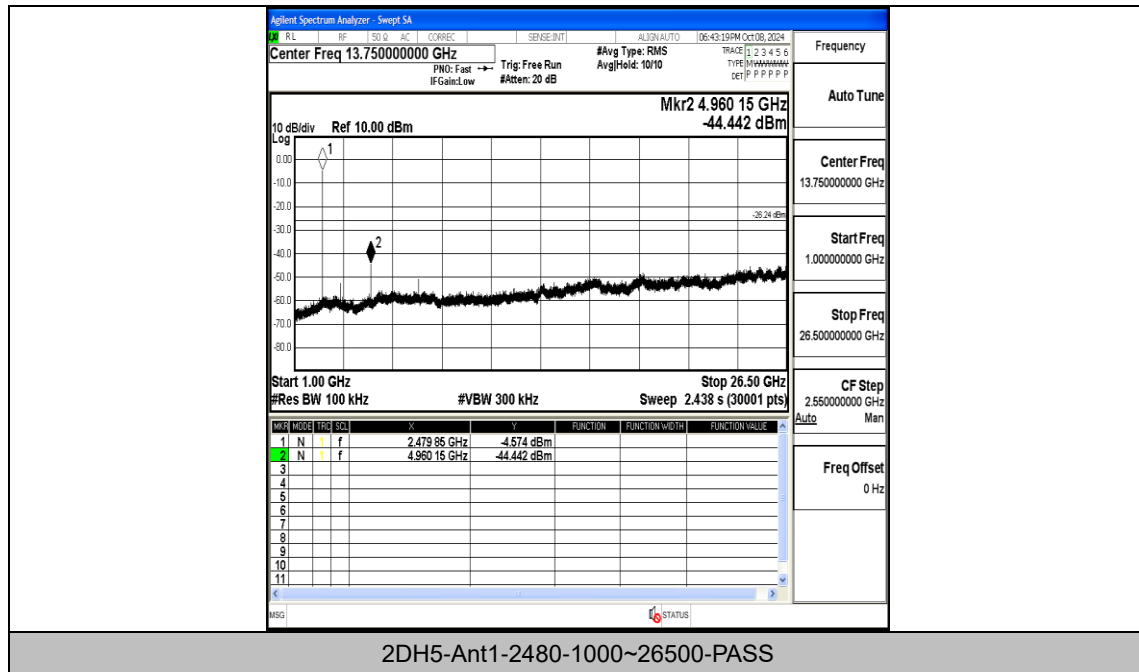
2DH5-Ant1-2441-1000~26500-PASS



2DH5-Ant1-2480-0~Reference-PASS



2DH5-Ant1-2480-30~1000-PASS



Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	2.89	3.75	77.07	1.13
DH5	Ant1	2441	2.89	3.75	77.07	1.13
DH5	Ant1	2480	2.89	3.76	76.86	1.14
2DH5	Ant1	2402	2.90	3.76	77.13	1.13
2DH5	Ant1	2441	2.90	3.75	77.33	1.12
2DH5	Ant1	2480	2.91	3.75	77.60	1.10

Test Graphs

