

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

Product Name: Wireless Headphone

Trade Mark: Vivitar

Test Model: V50023BTN

FCC ID: 2AL9B-V50023BTN

Environmental Conditions

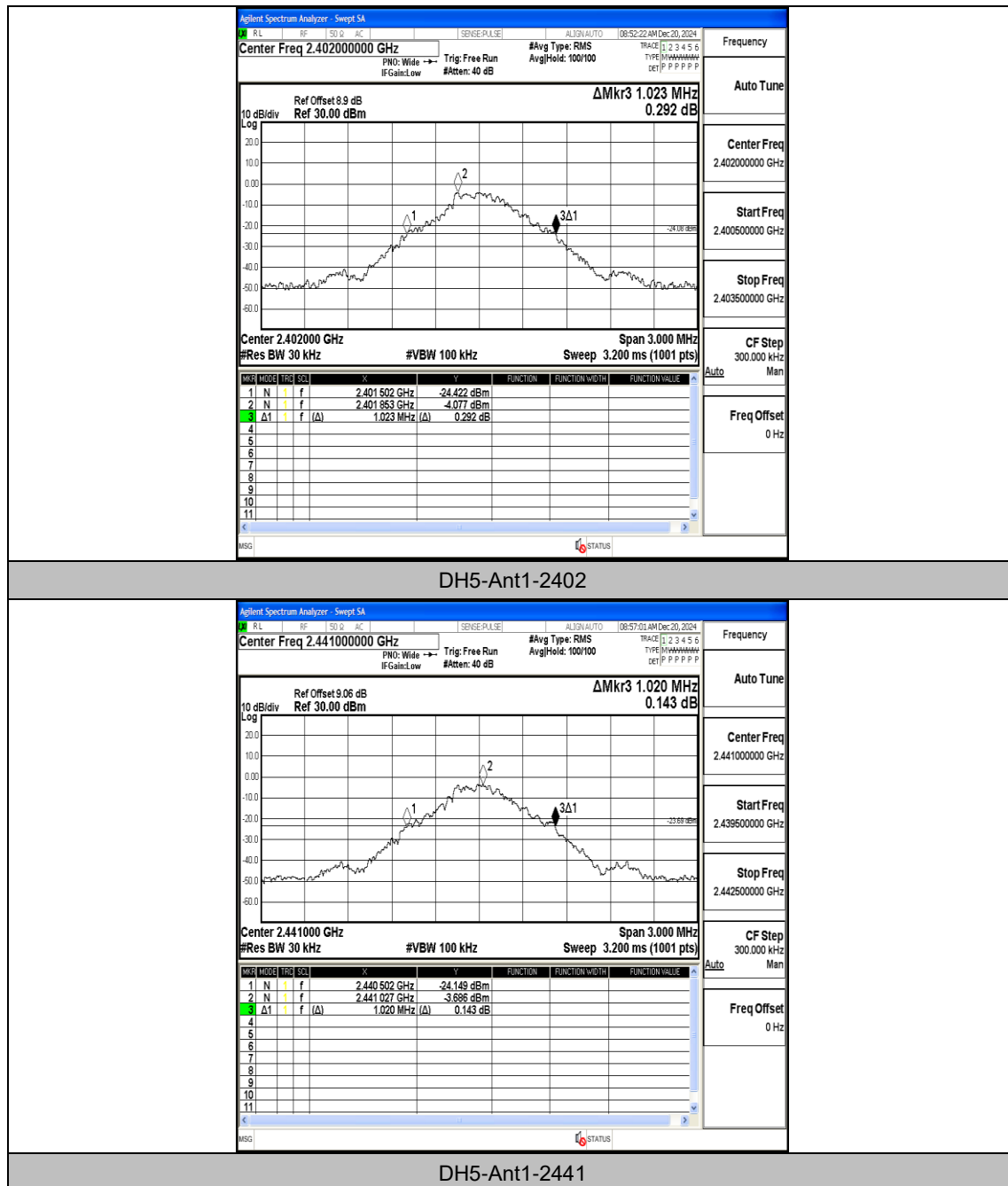
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

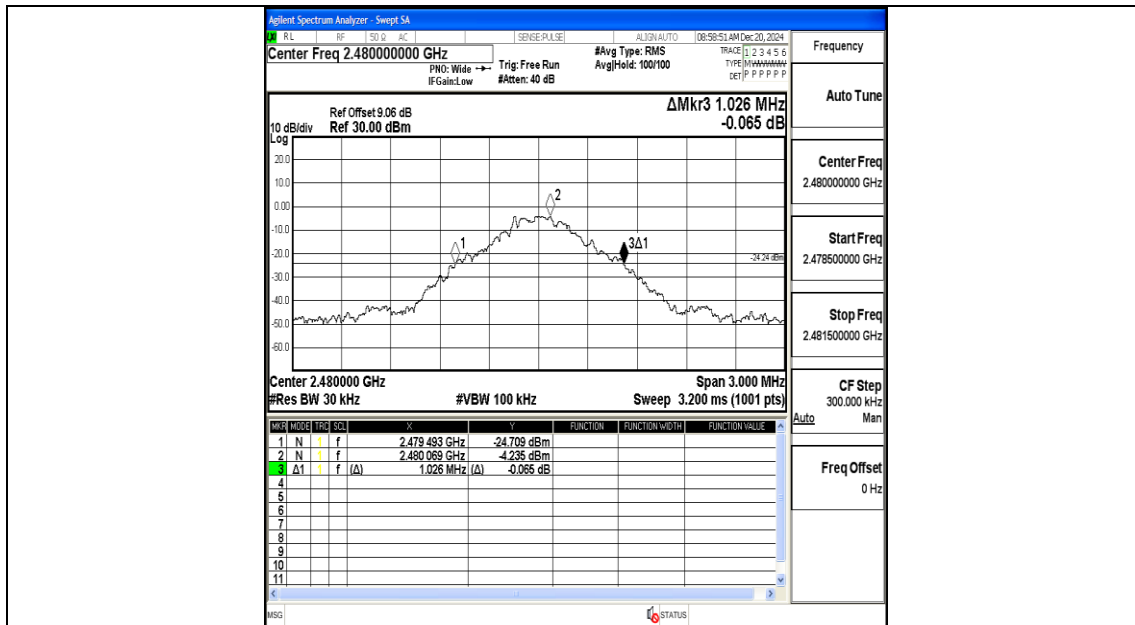
Appendix A: 20dB Emission Bandwidth

Test Result

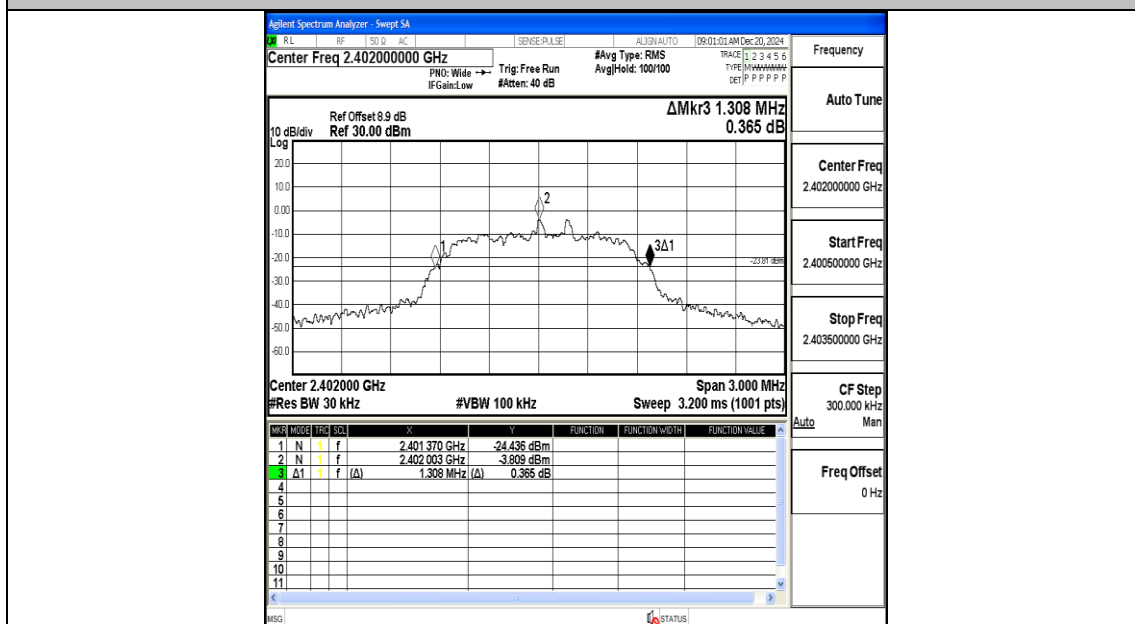
Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	1.023	2401.502	2402.525	---	---
DH5	Ant1	2441	1.020	2440.502	2441.522	---	---
DH5	Ant1	2480	1.026	2479.493	2480.519	---	---
2DH5	Ant1	2402	1.308	2401.370	2402.678	---	---
2DH5	Ant1	2441	1.347	2440.337	2441.684	---	---
2DH5	Ant1	2480	1.326	2479.349	2480.675	---	---

Test Graphs



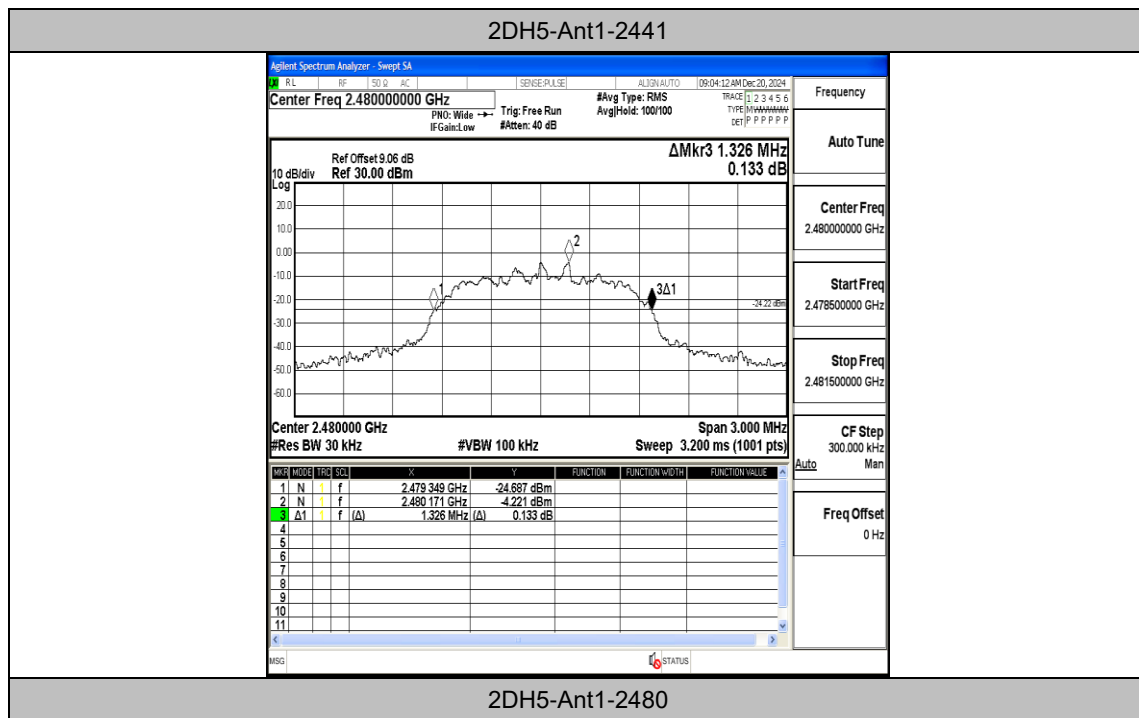


DH5-Ant1-2480



2DH5-Ant1-2402



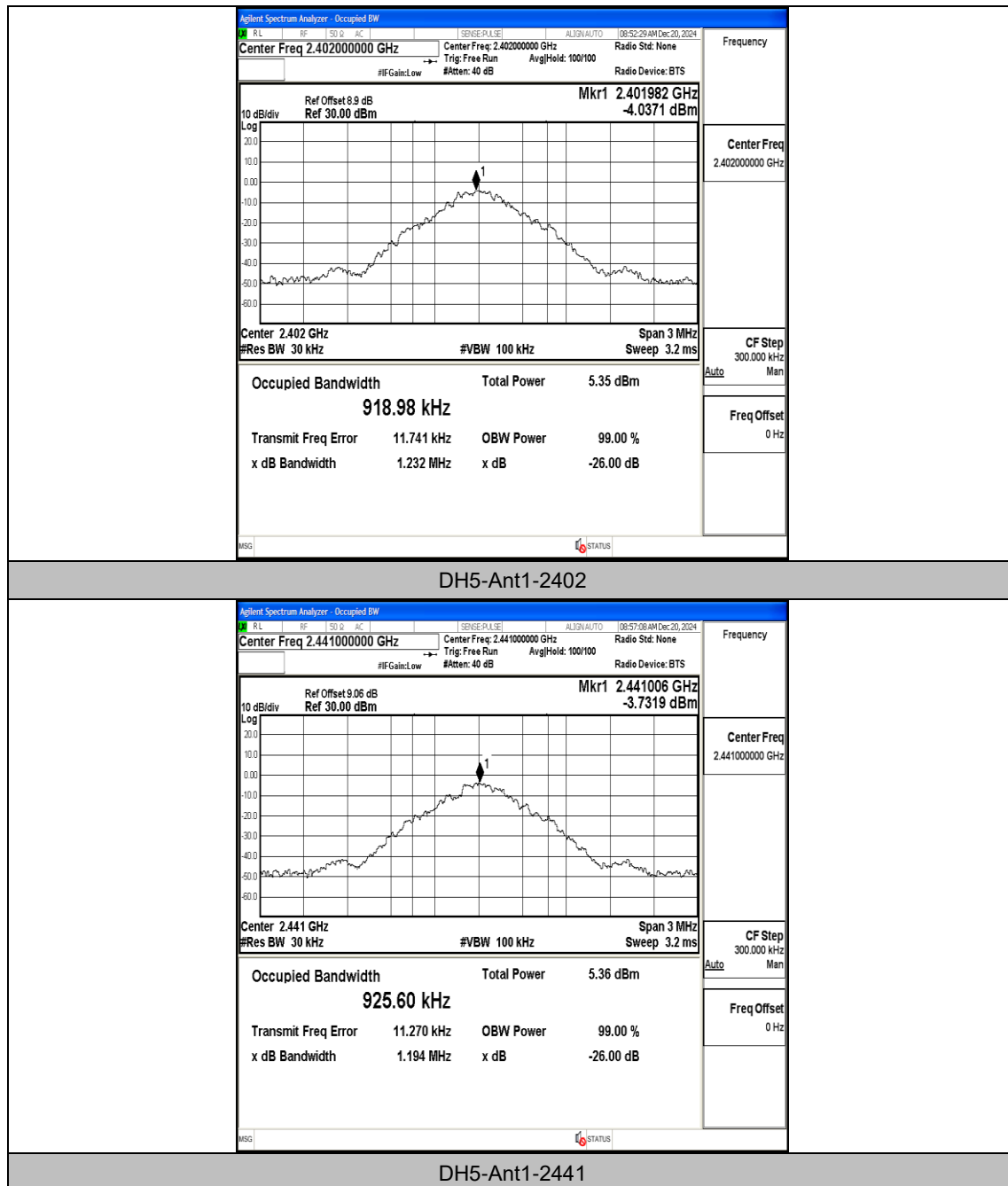


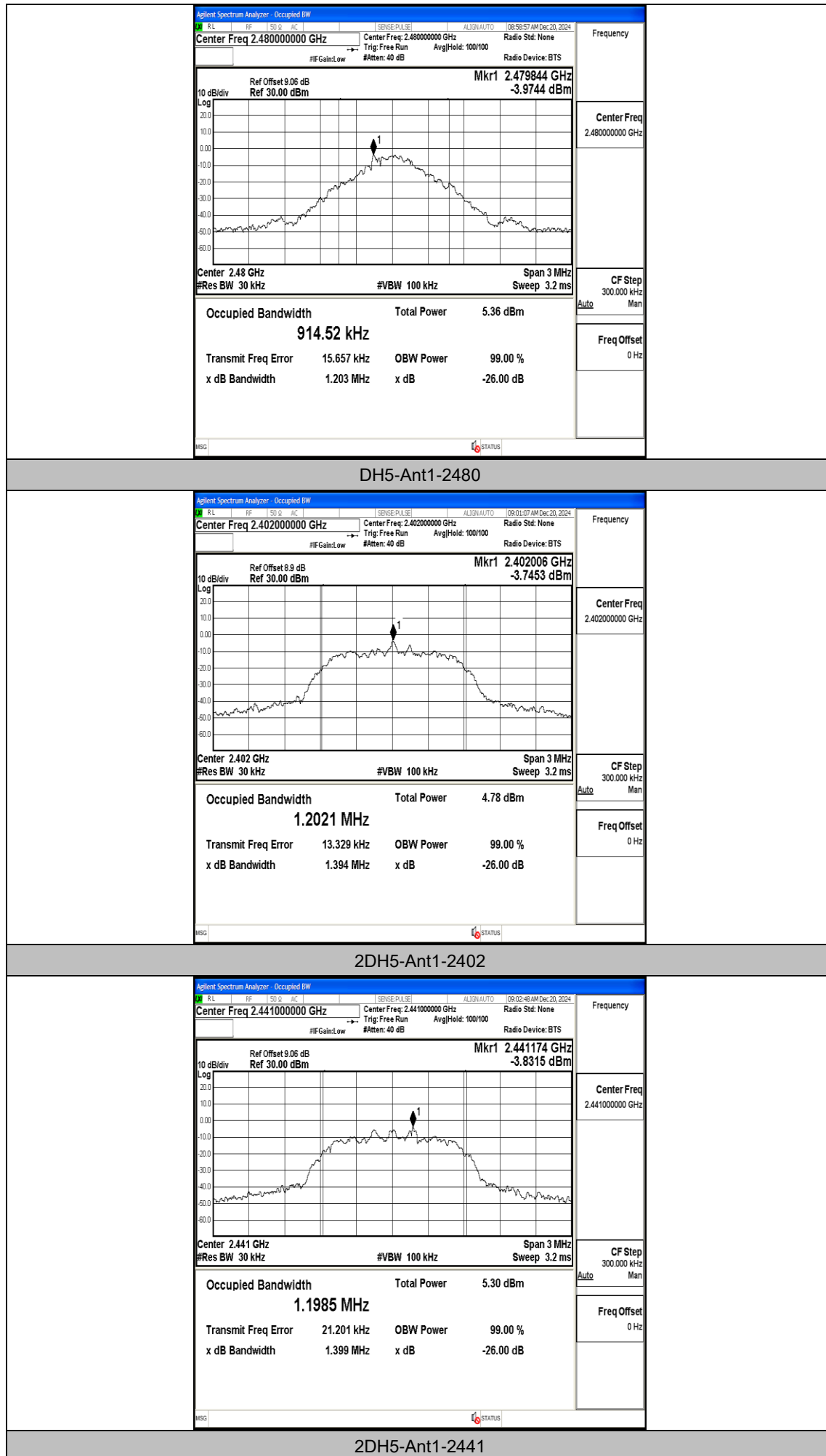
Appendix B: Occupied Channel Bandwidth

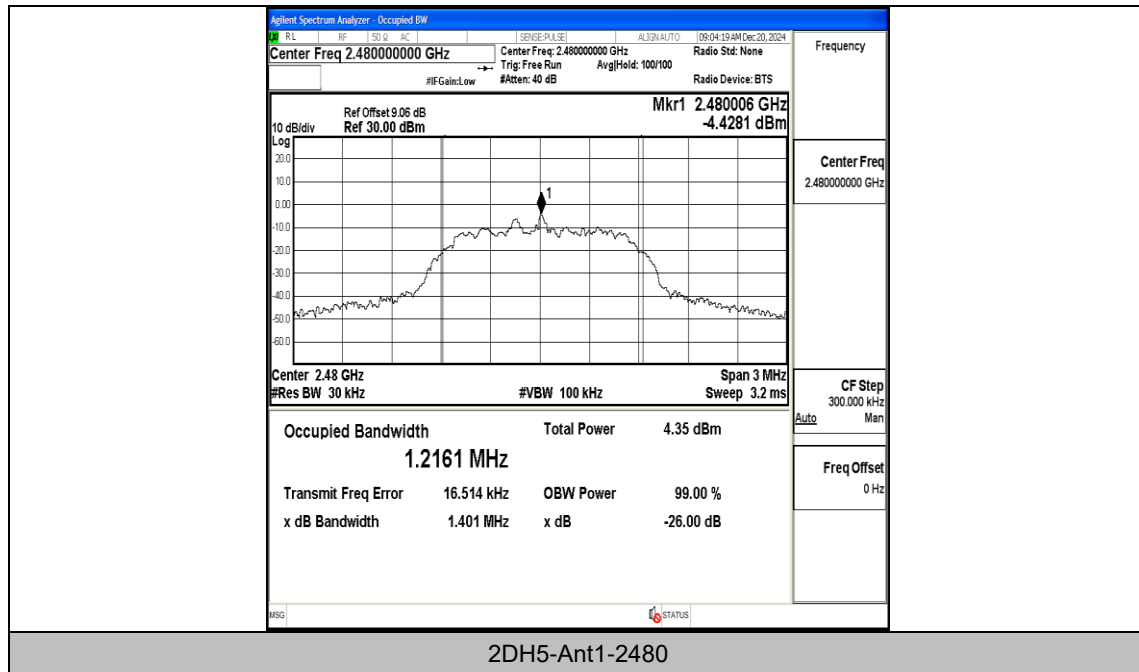
Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.91898	2401.5523	2402.4712	---	---
DH5	Ant1	2441	0.92560	2440.5485	2441.4741	---	---
DH5	Ant1	2480	0.91452	2479.5584	2480.4729	---	---
2DH5	Ant1	2402	1.2021	2401.4123	2402.6144	---	---
2DH5	Ant1	2441	1.1985	2440.4220	2441.6205	---	---
2DH5	Ant1	2480	1.2161	2479.4085	2480.6246	---	---

Test Graphs





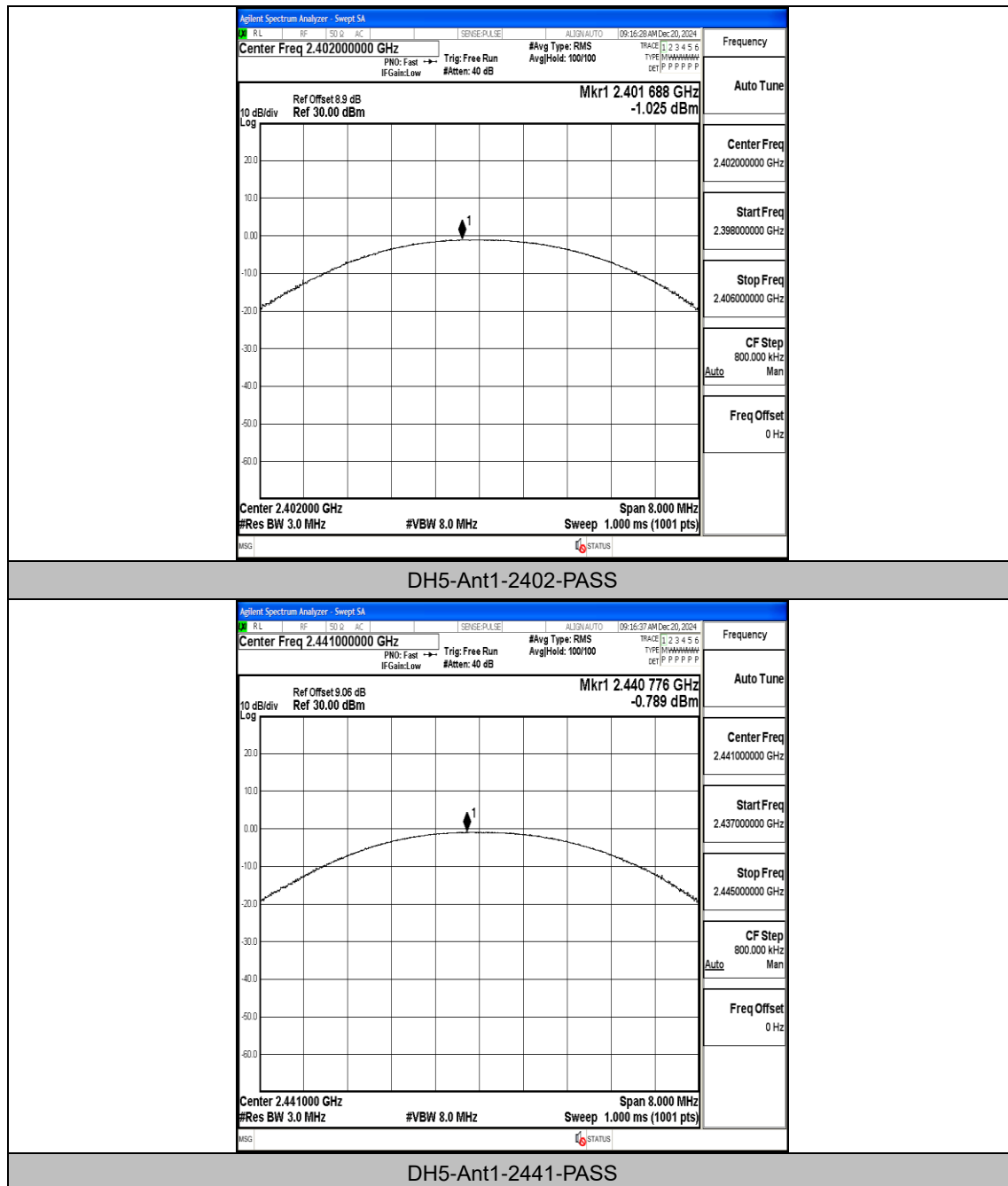


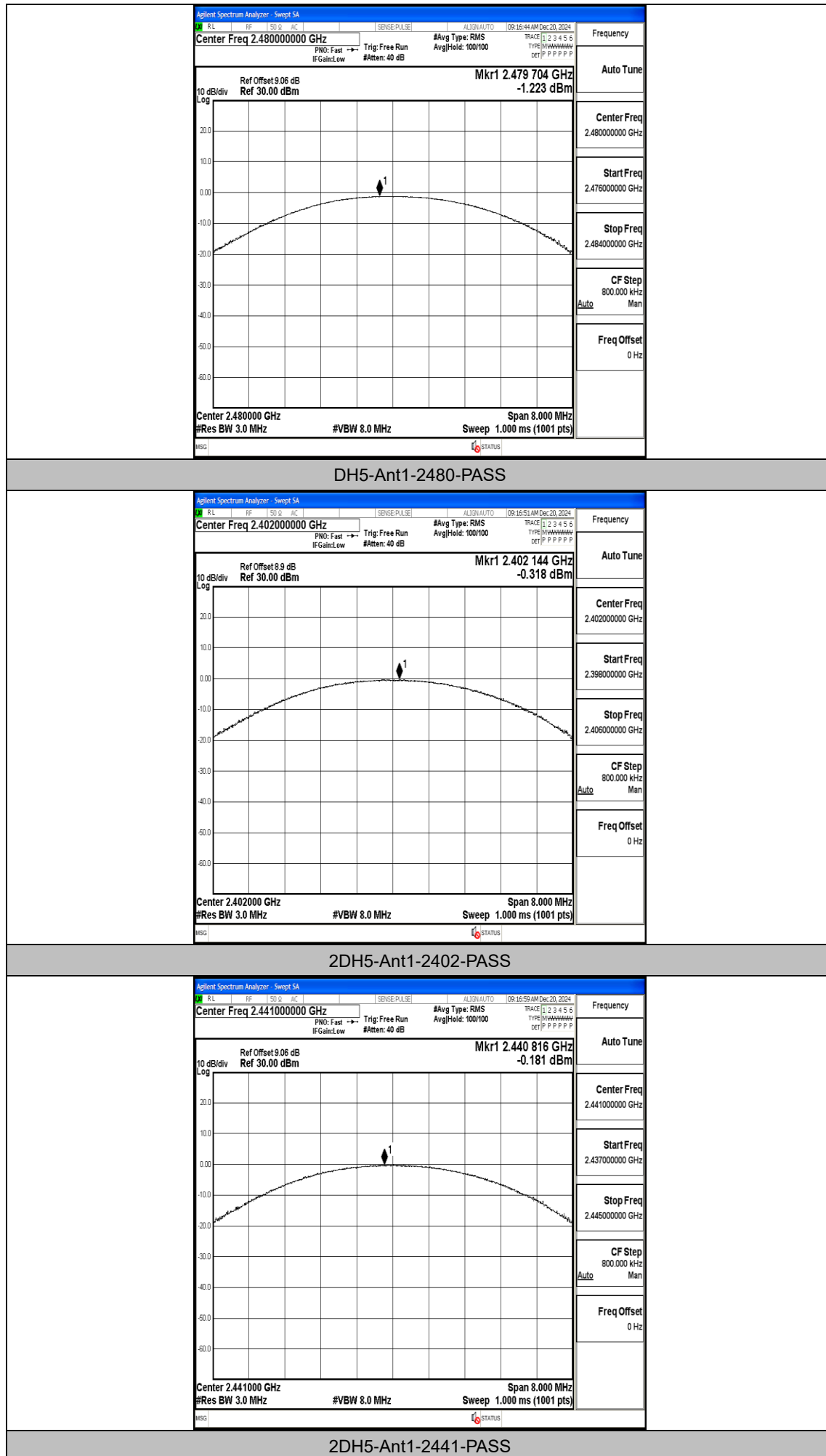
Appendix C: Maximum peak conducted output power

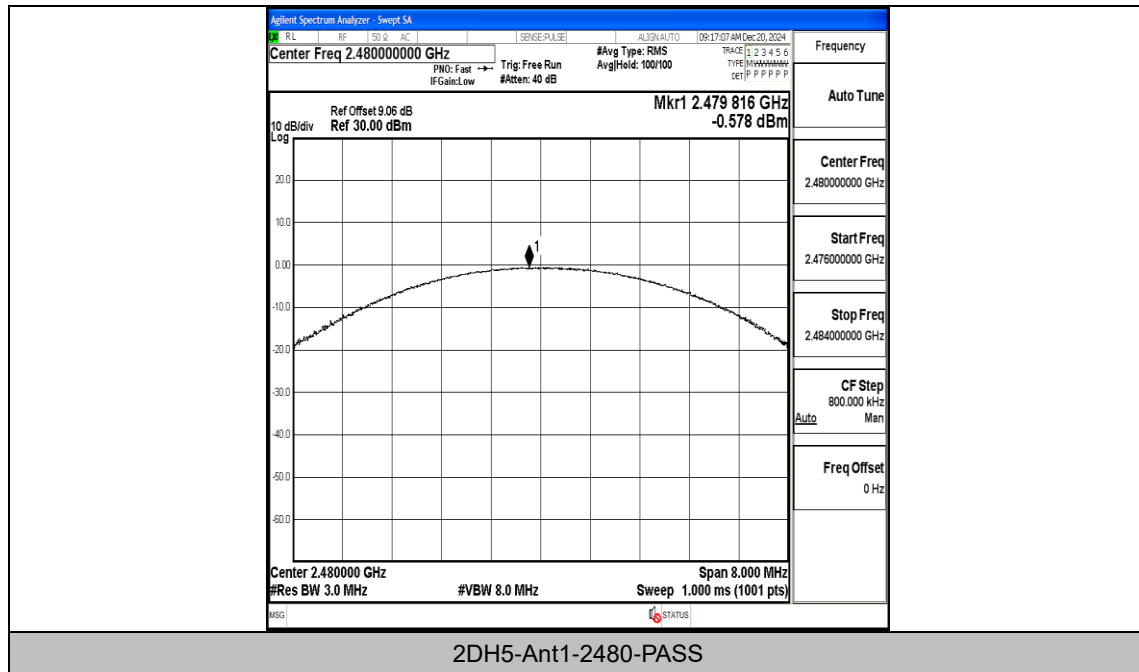
Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	-1.03	≤20.97	PASS
DH5	Ant1	2441	-0.79	≤20.97	PASS
DH5	Ant1	2480	-1.22	≤20.97	PASS
2DH5	Ant1	2402	-0.32	≤20.97	PASS
2DH5	Ant1	2441	-0.18	≤20.97	PASS
2DH5	Ant1	2480	-0.58	≤20.97	PASS

Test Graphs





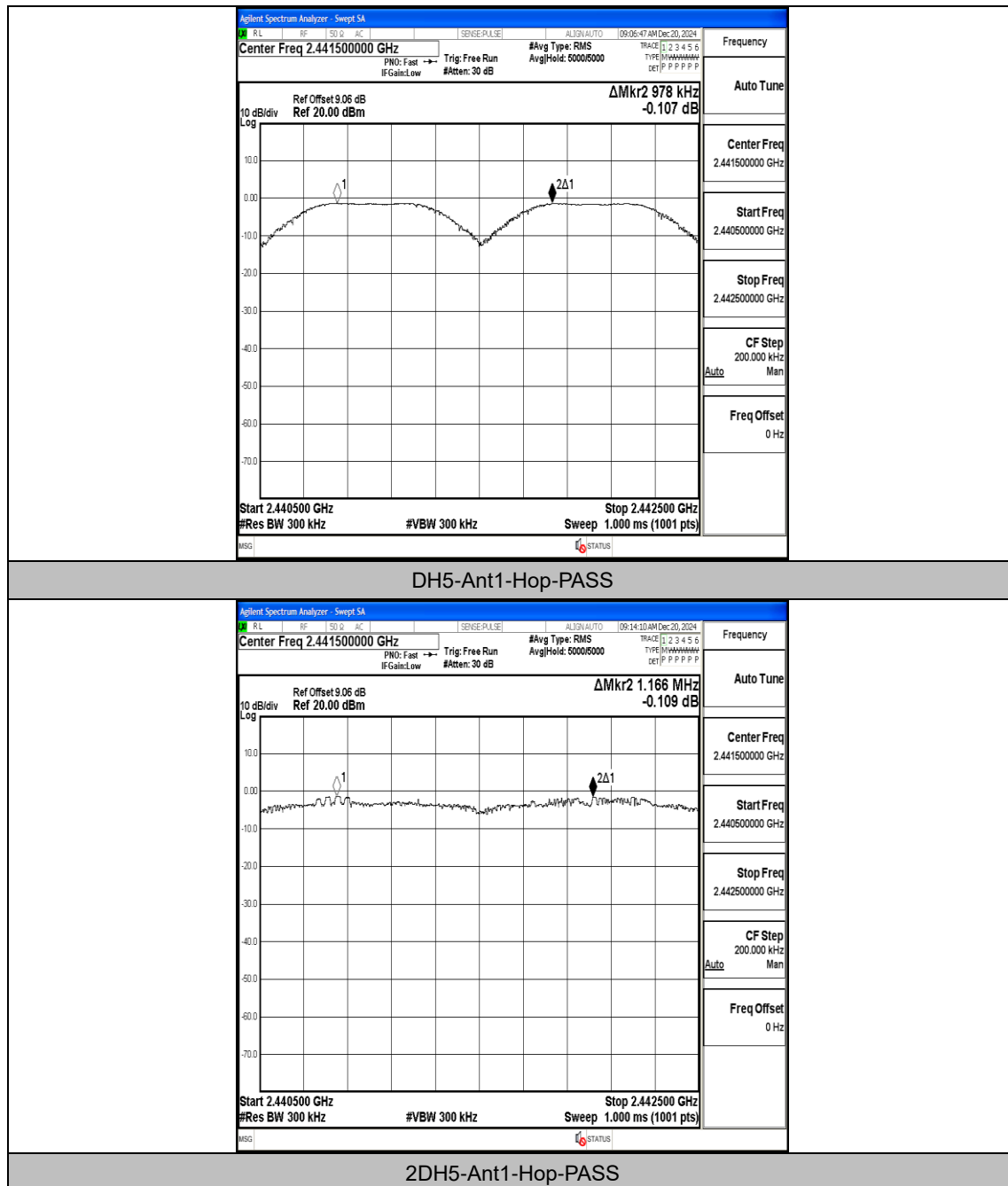


Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.978	≥ 0.684	PASS
2DH5	Ant1	Hop	1.166	≥ 0.898	PASS

Test Graphs

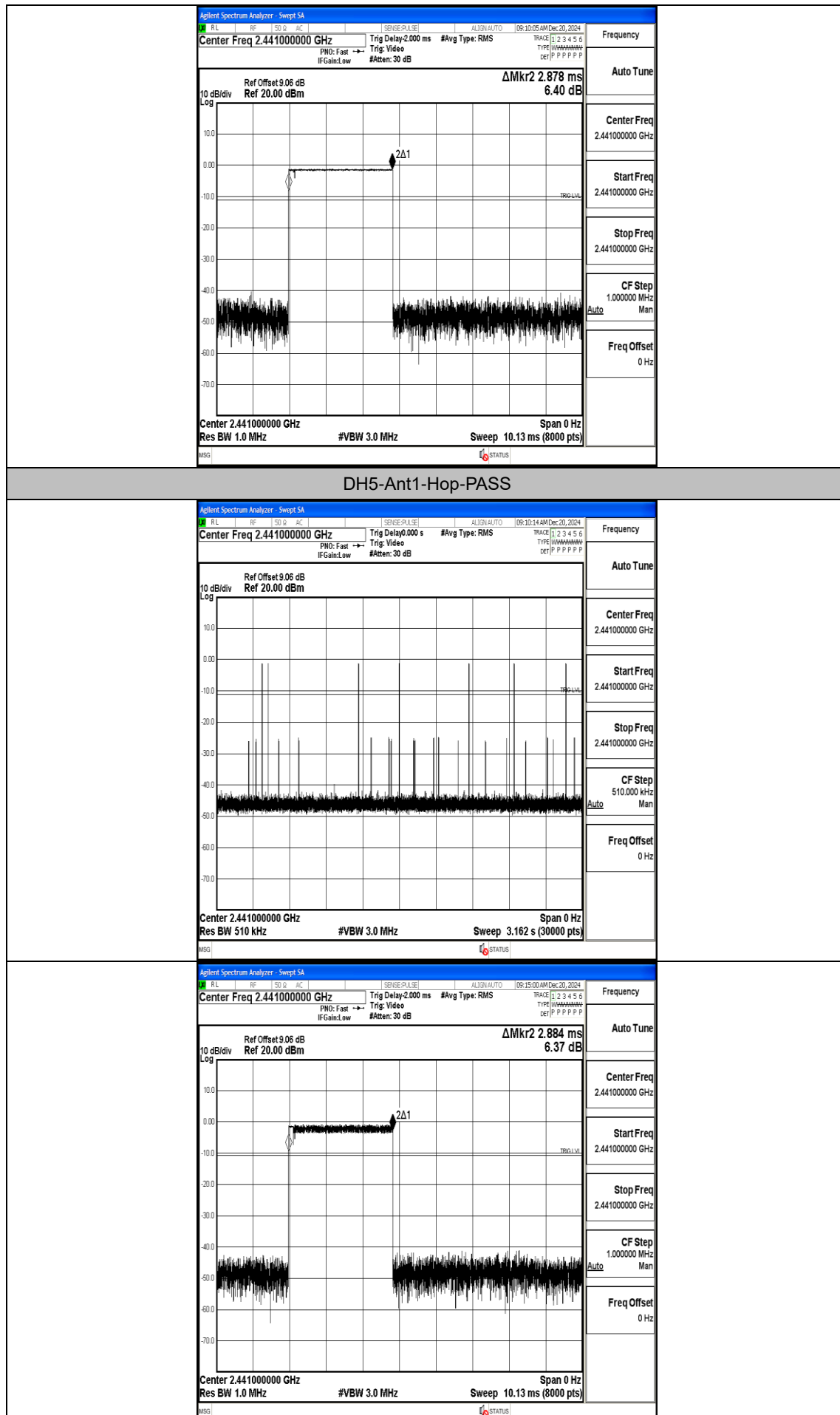


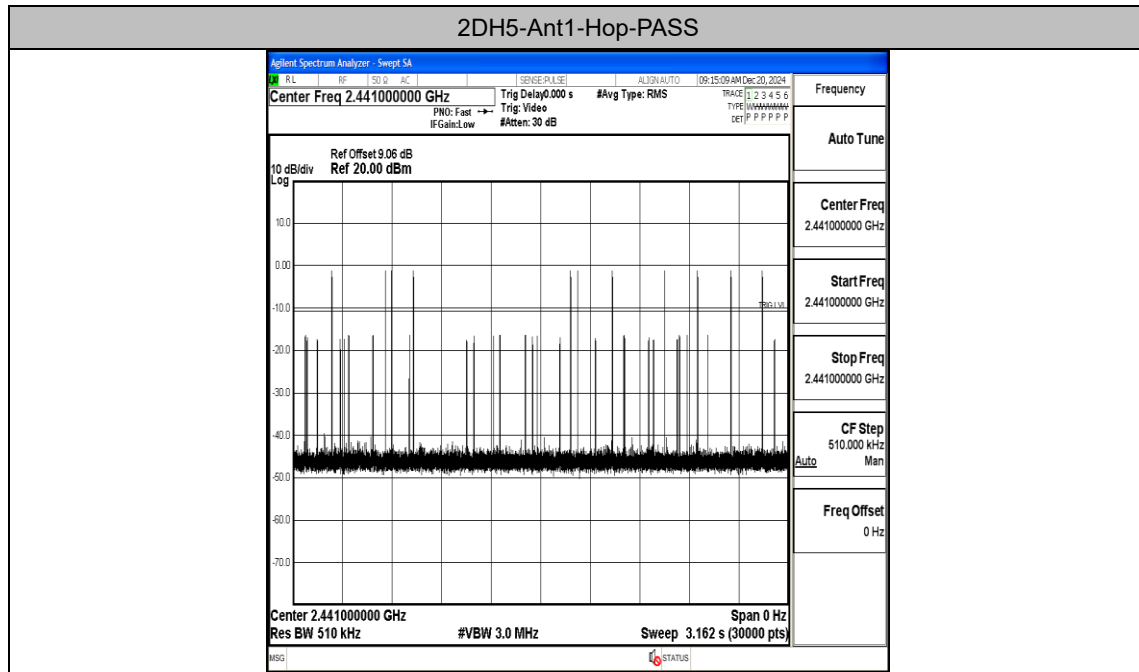
Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.878	80	0.23	≤0.4	PASS
2DH5	Ant1	Hop	2.884	120	0.346	≤0.4	PASS

Test Graphs



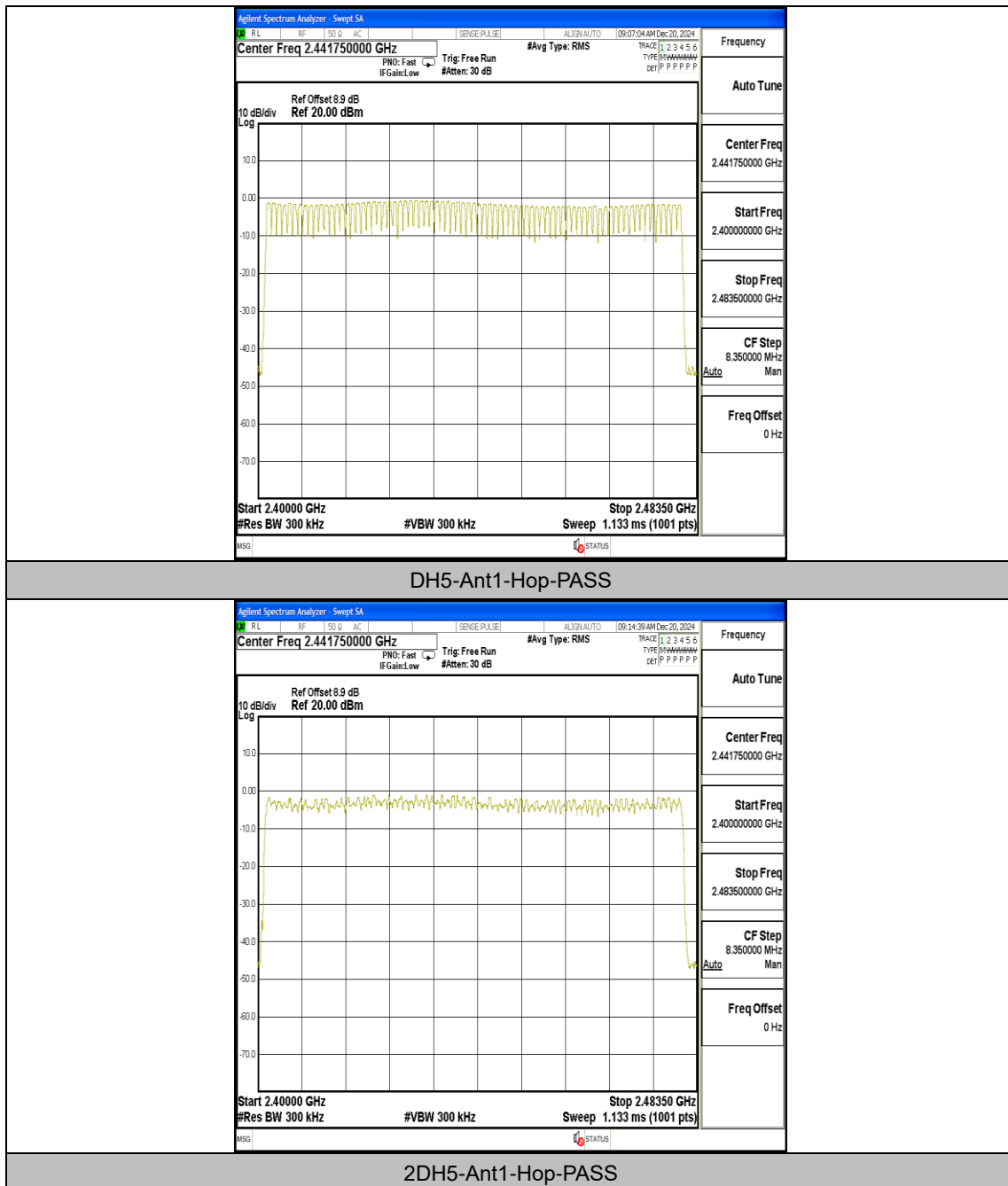


Appendix F: Number of hopping channels

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

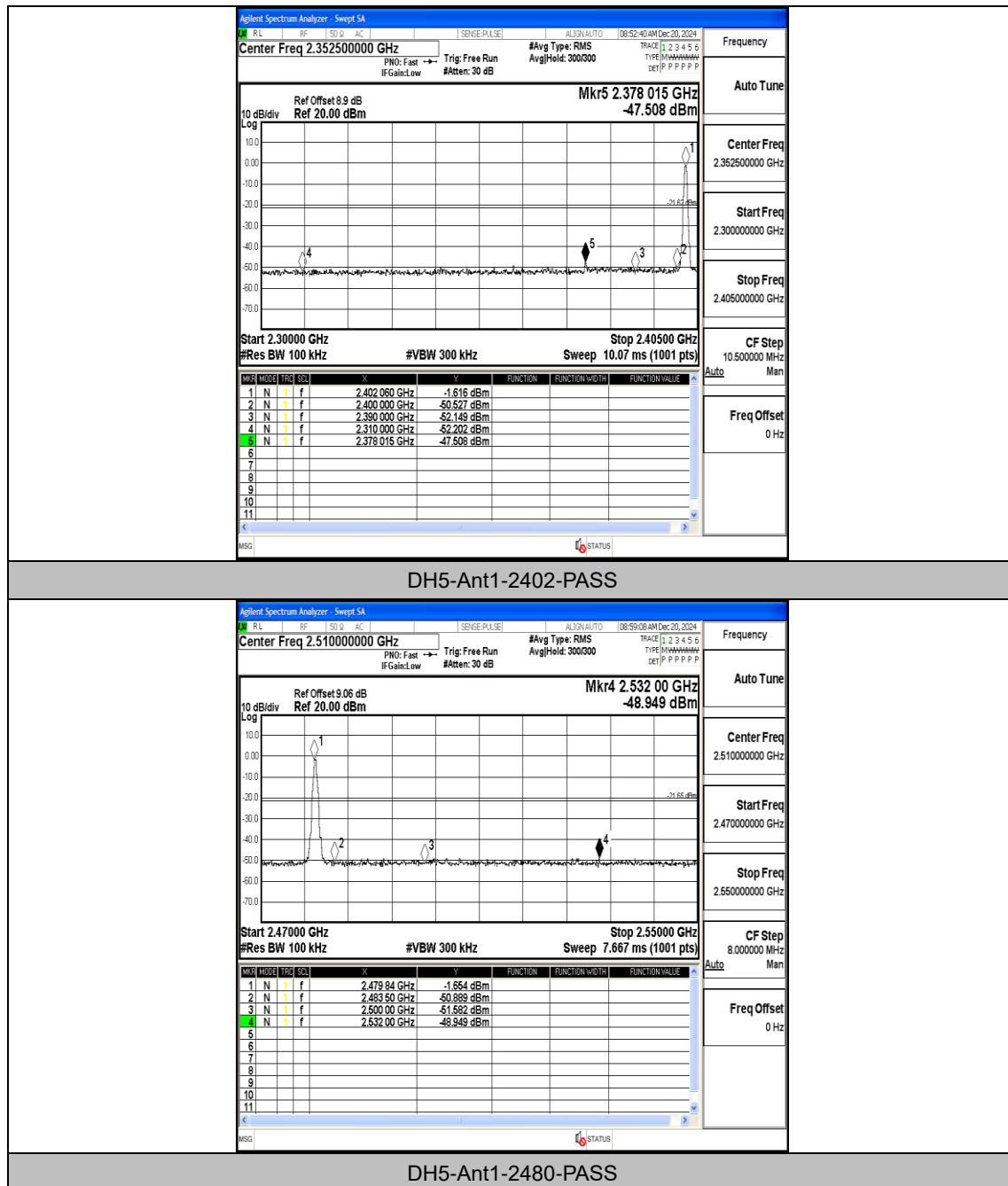


Appendix G: Band edge measurements

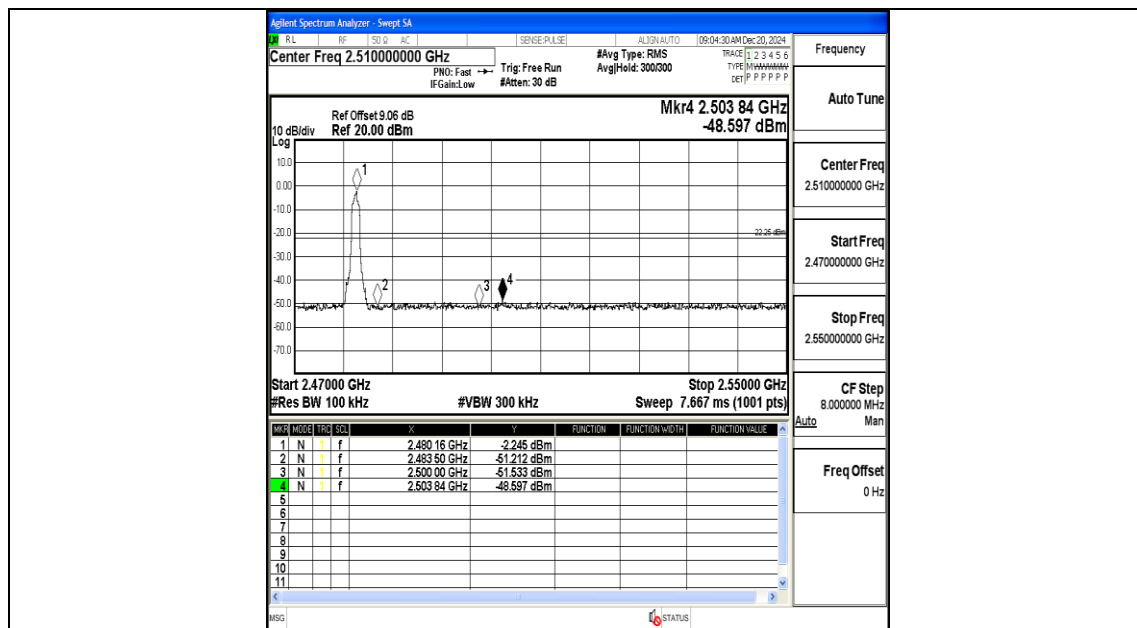
Test Result

Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.62	-47.51	≤ -21.62	PASS
DH5	Ant1	High	2480	-1.65	-48.95	≤ -21.65	PASS
DH5	Ant1	Low	Hop_2402	-1.94	-48.68	≤ -21.94	PASS
DH5	Ant1	High	Hop_2480	-1.87	-48.44	≤ -21.87	PASS
2DH5	Ant1	Low	2402	-1.46	-48.6	≤ -21.46	PASS
2DH5	Ant1	High	2480	-2.25	-48.6	≤ -22.25	PASS
2DH5	Ant1	Low	Hop_2402	-2.38	-49.26	≤ -22.38	PASS
2DH5	Ant1	High	Hop_2480	-3.41	-47.92	≤ -23.41	PASS

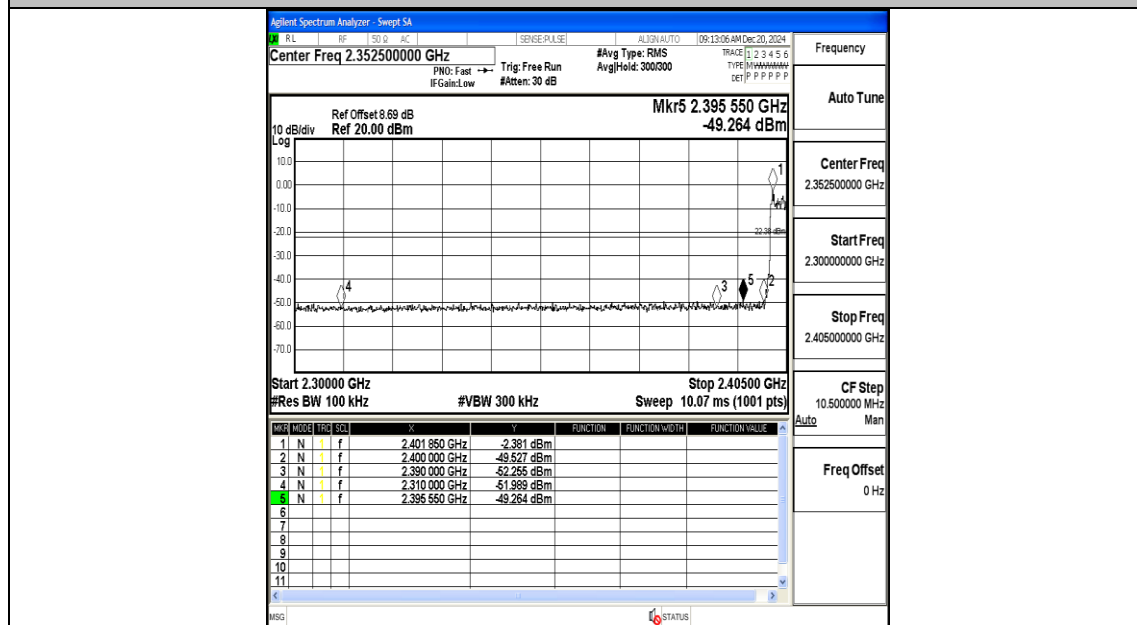
Test Graphs



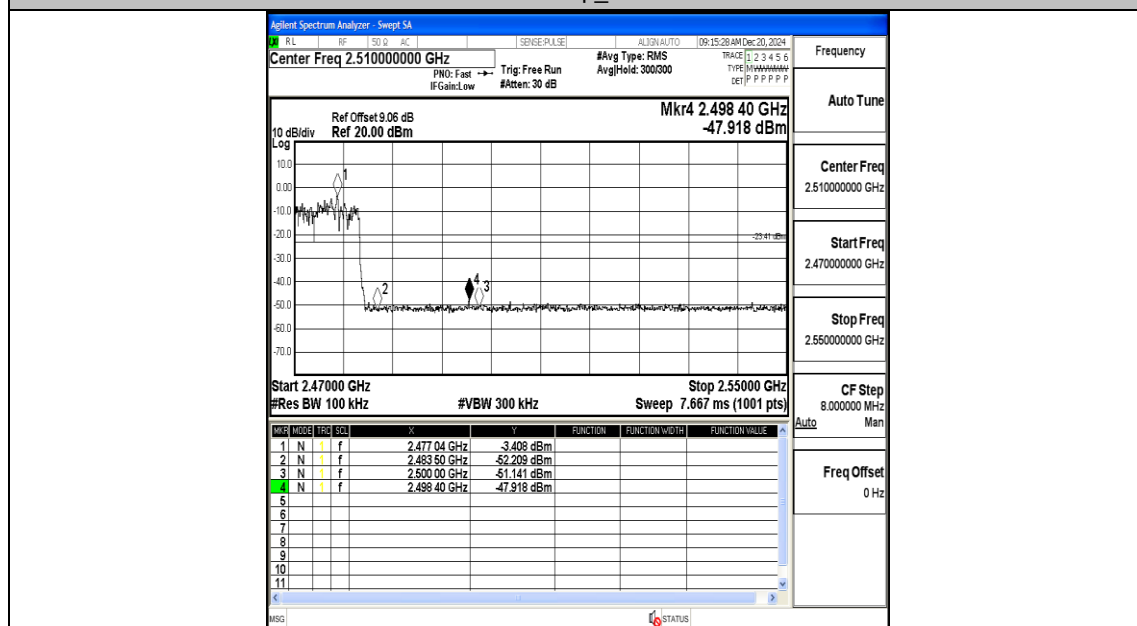




2DH5-Ant1-2480-PASS



2DH5-Ant1-Hop_2402-PASS



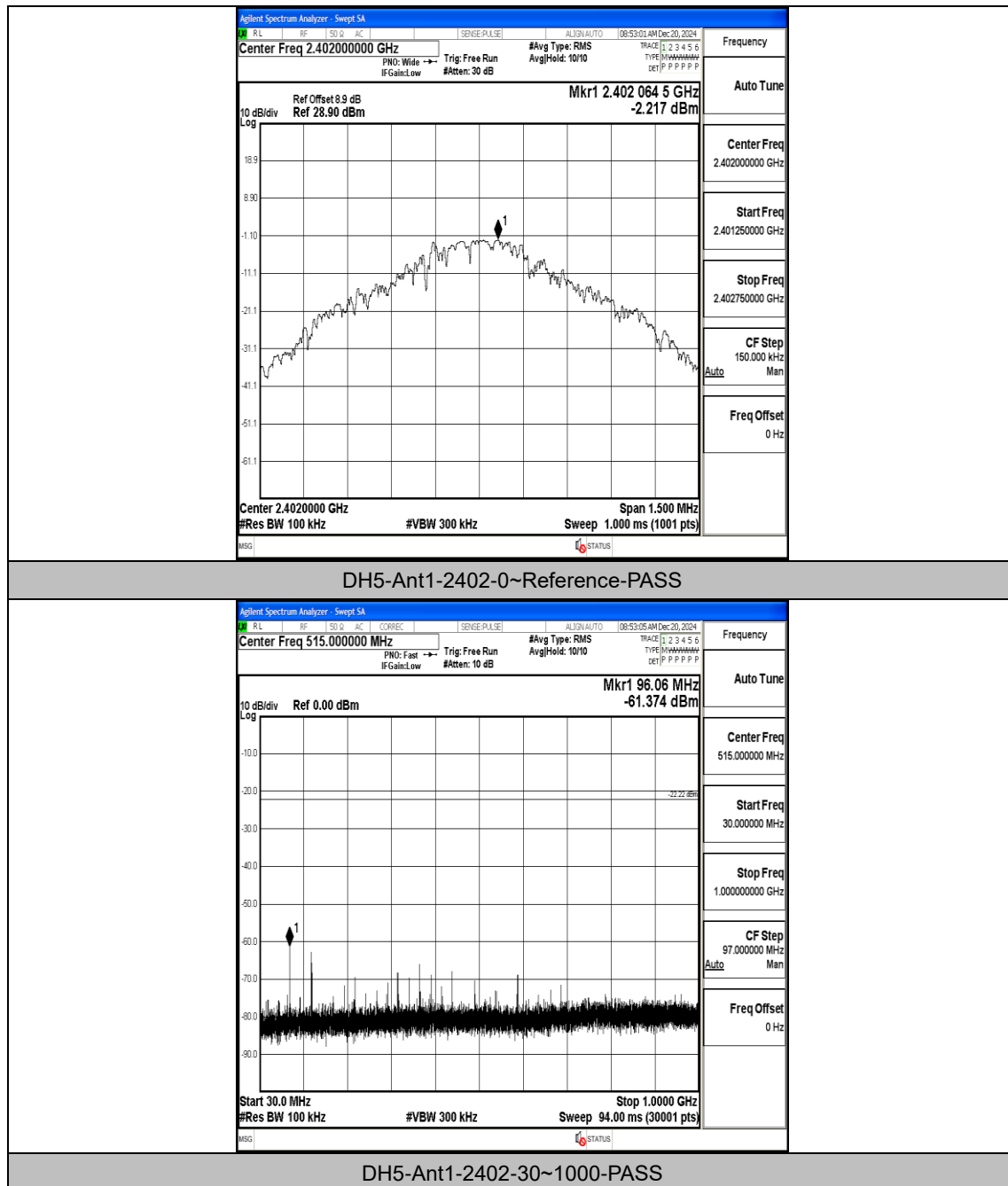
2DH5-Ant1-Hop_2480-PASS

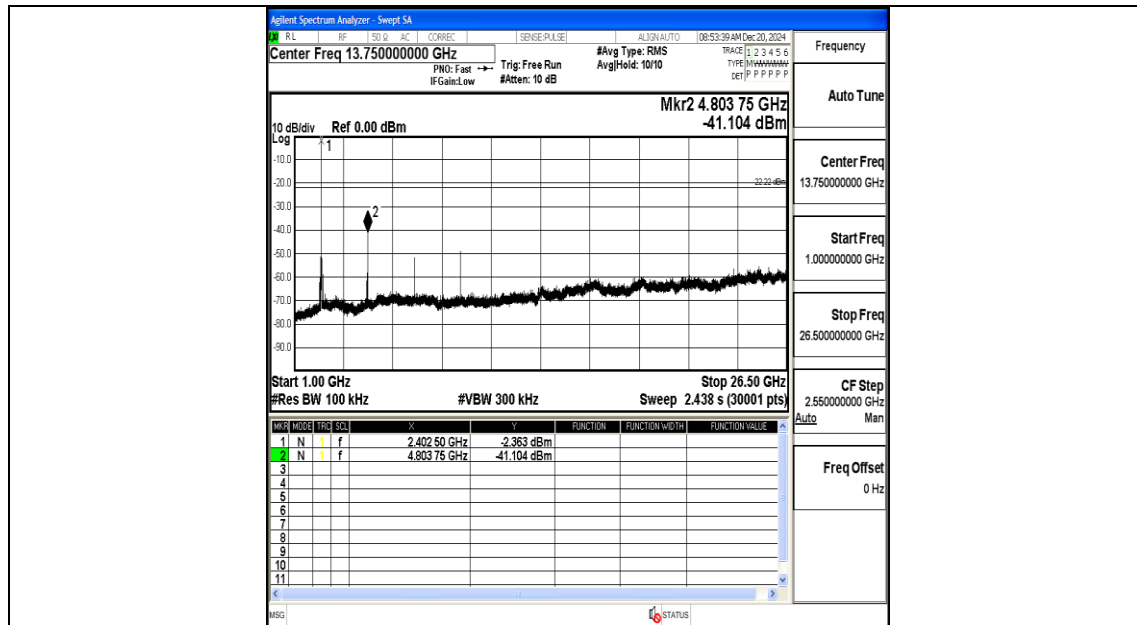
Appendix H: Conducted Spurious Emission

Test Result

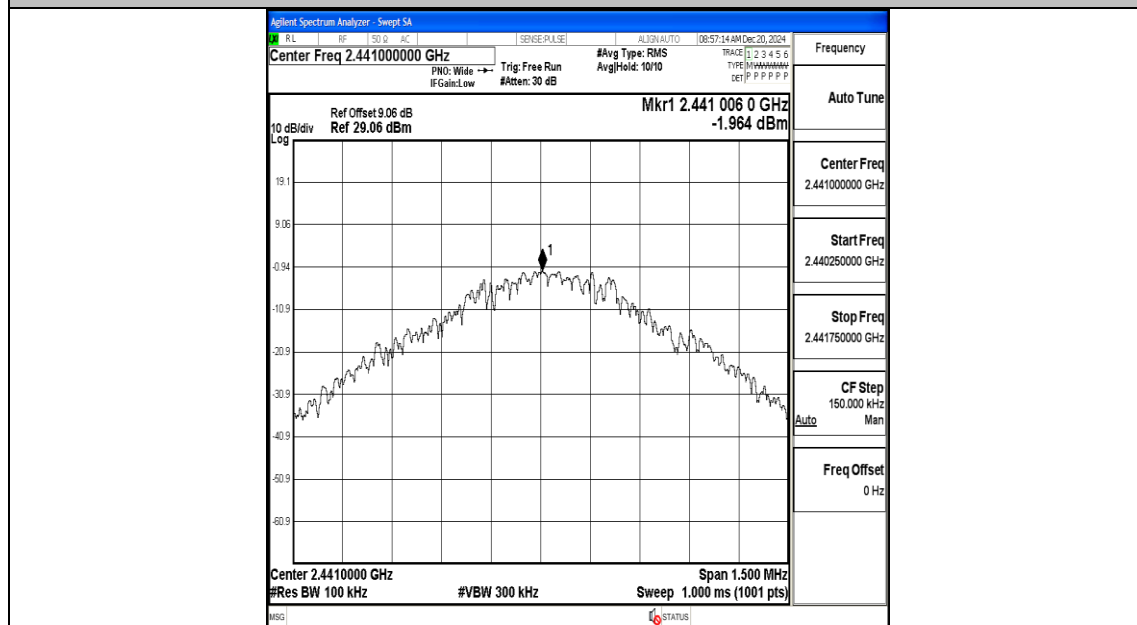
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-2.22	-2.22	---	PASS
DH5	Ant1	2402	30~1000	-2.22	-61.37	≤-22.22	PASS
DH5	Ant1	2402	1000~26500	-2.22	-41.1	≤-22.22	PASS
DH5	Ant1	2441	0~Reference	-1.96	-1.96	---	PASS
DH5	Ant1	2441	30~1000	-1.96	-62.18	≤-21.96	PASS
DH5	Ant1	2441	1000~26500	-1.96	-41.48	≤-21.96	PASS
DH5	Ant1	2480	0~Reference	-2.11	-2.11	---	PASS
DH5	Ant1	2480	30~1000	-2.11	-59.03	≤-22.11	PASS
DH5	Ant1	2480	1000~26500	-2.11	-41.8	≤-22.11	PASS
2DH5	Ant1	2402	0~Reference	-4.56	-4.56	---	PASS
2DH5	Ant1	2402	30~1000	-4.56	-64.77	≤-24.56	PASS
2DH5	Ant1	2402	1000~26500	-4.56	-41.37	≤-24.56	PASS
2DH5	Ant1	2441	0~Reference	-1.72	-1.72	---	PASS
2DH5	Ant1	2441	30~1000	-1.72	-57.84	≤-21.72	PASS
2DH5	Ant1	2441	1000~26500	-1.72	-36.65	≤-21.72	PASS
2DH5	Ant1	2480	0~Reference	-6.05	-6.05	---	PASS
2DH5	Ant1	2480	30~1000	-6.05	-62.72	≤-26.05	PASS
2DH5	Ant1	2480	1000~26500	-6.05	-43.01	≤-26.05	PASS

Test Graphs

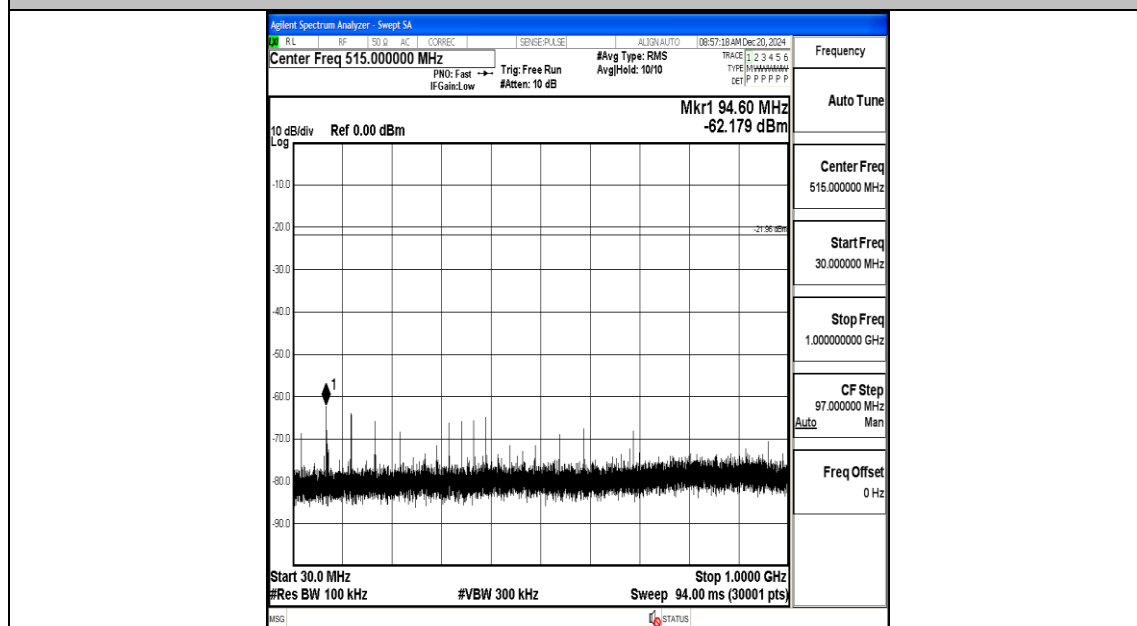




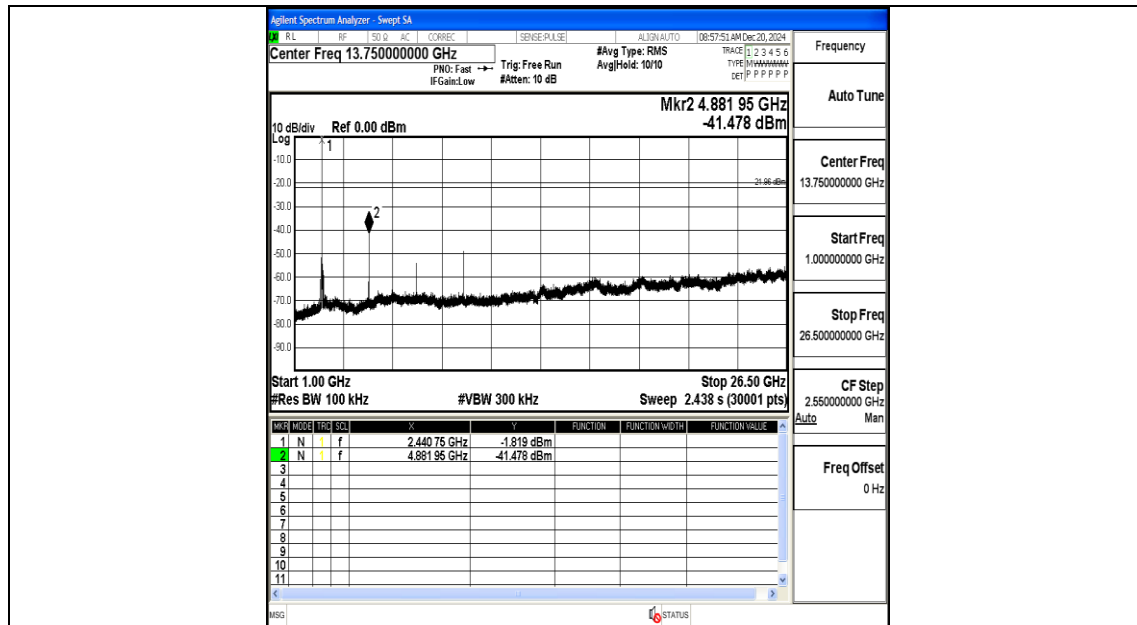
DH5-Ant1-2402-1000~26500-PASS



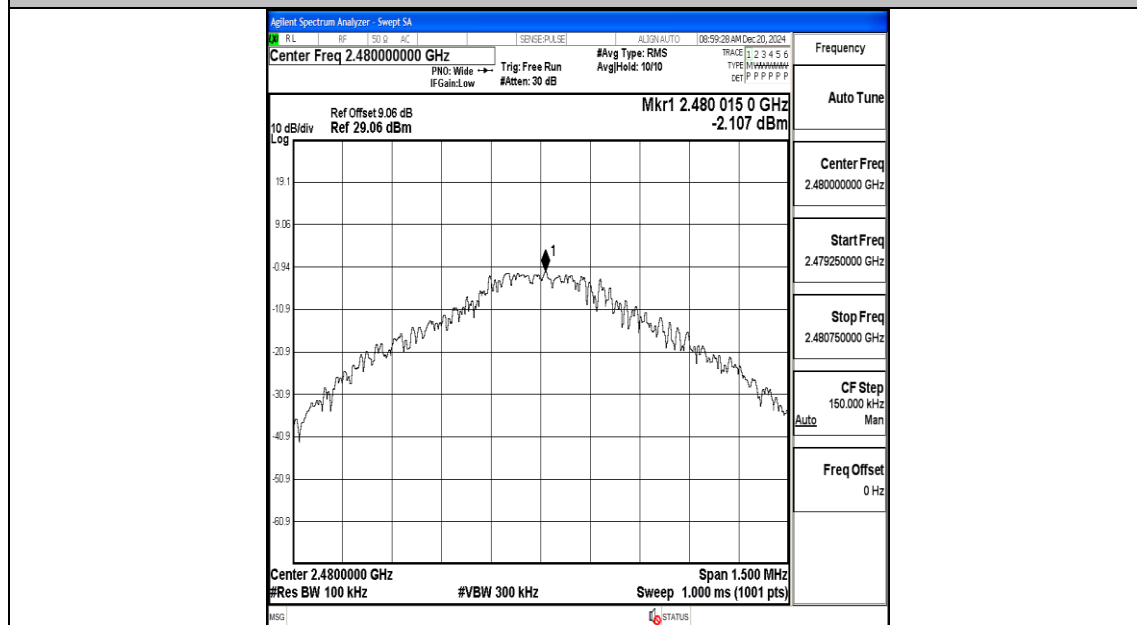
DH5-Ant1-2441-0~Reference-PASS



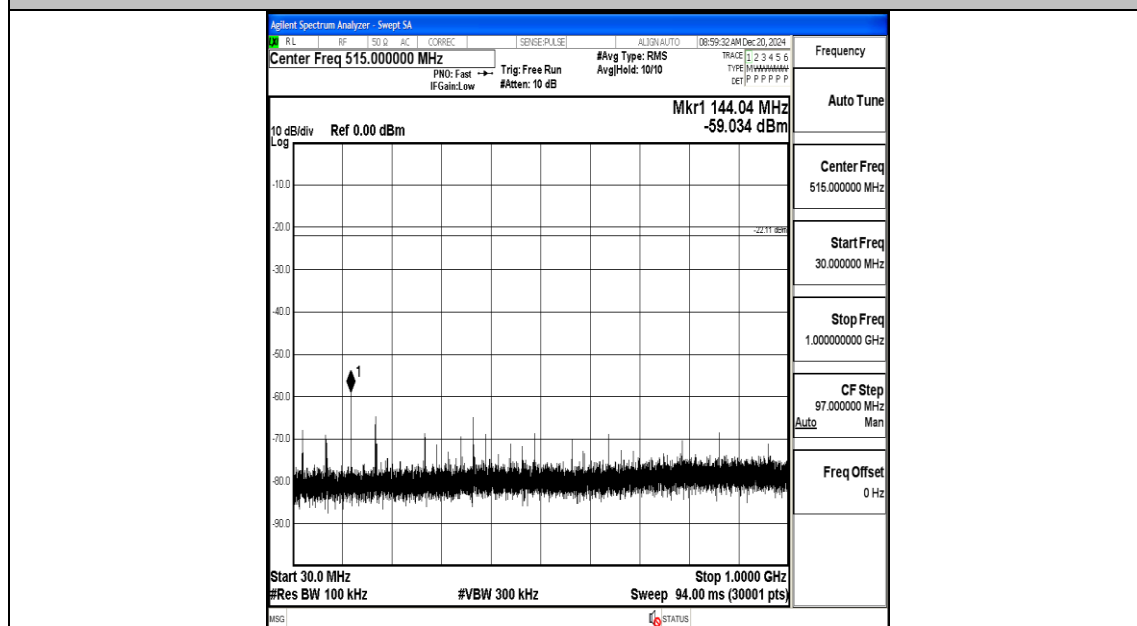
DH5-Ant1-2441-30~1000-PASS



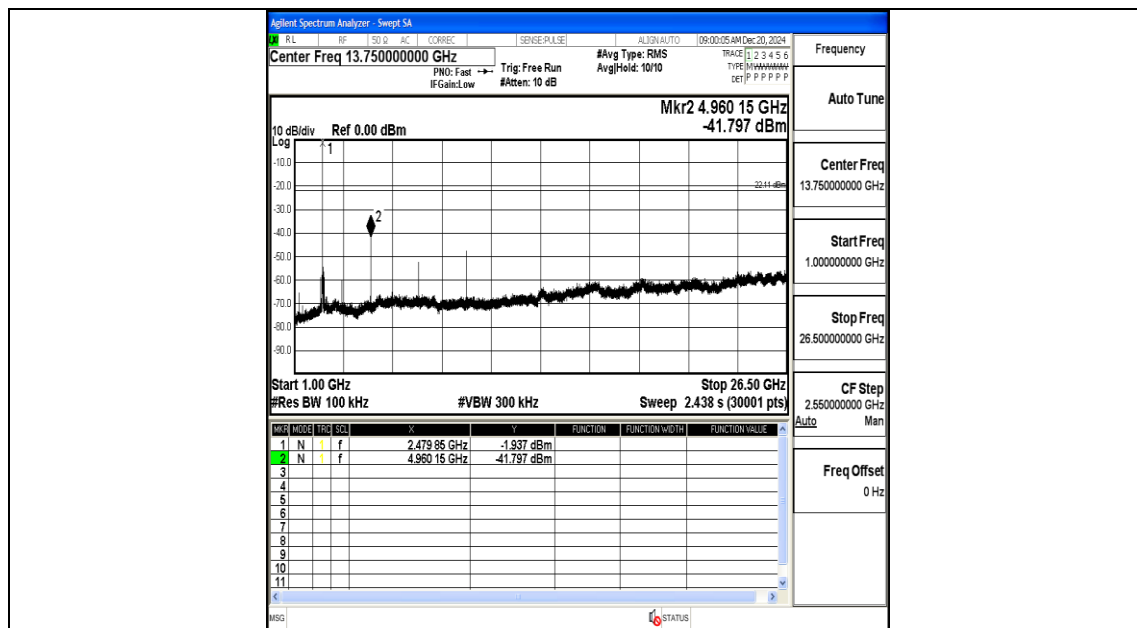
DH5-Ant1-2441-1000~26500-PASS



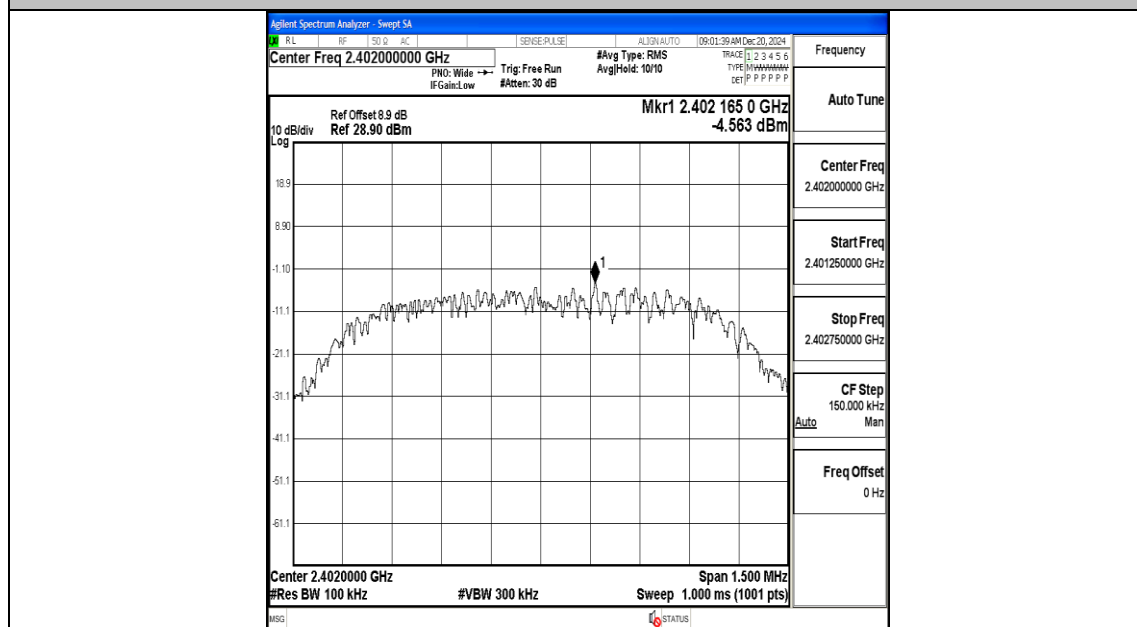
DH5-Ant1-2480-0~Reference-PASS



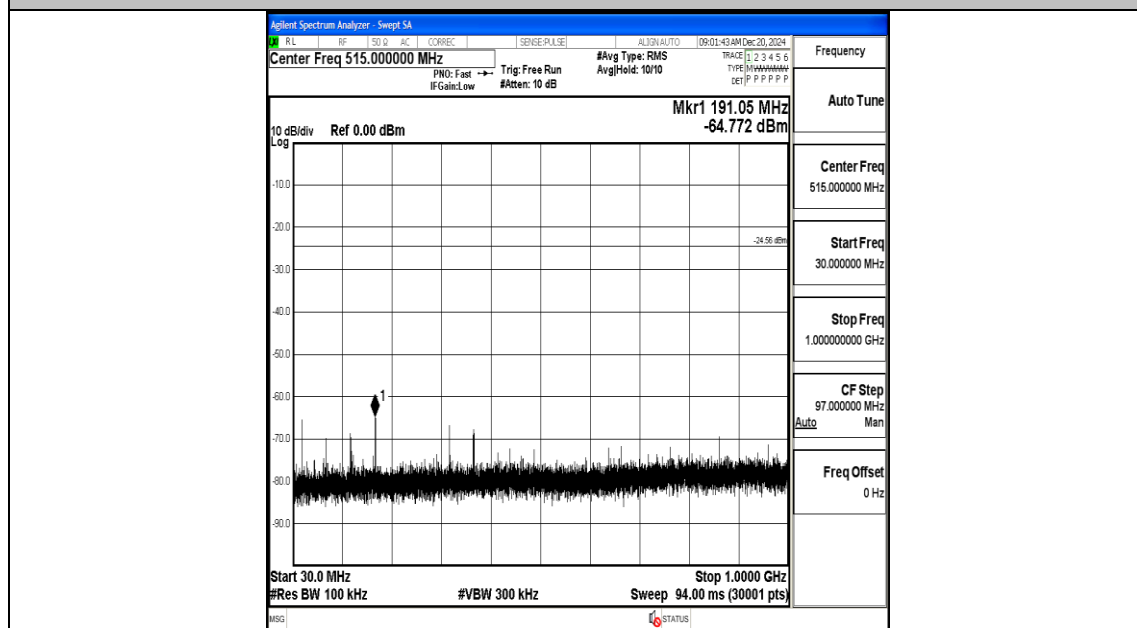
DH5-Ant1-2480-30~1000-PASS



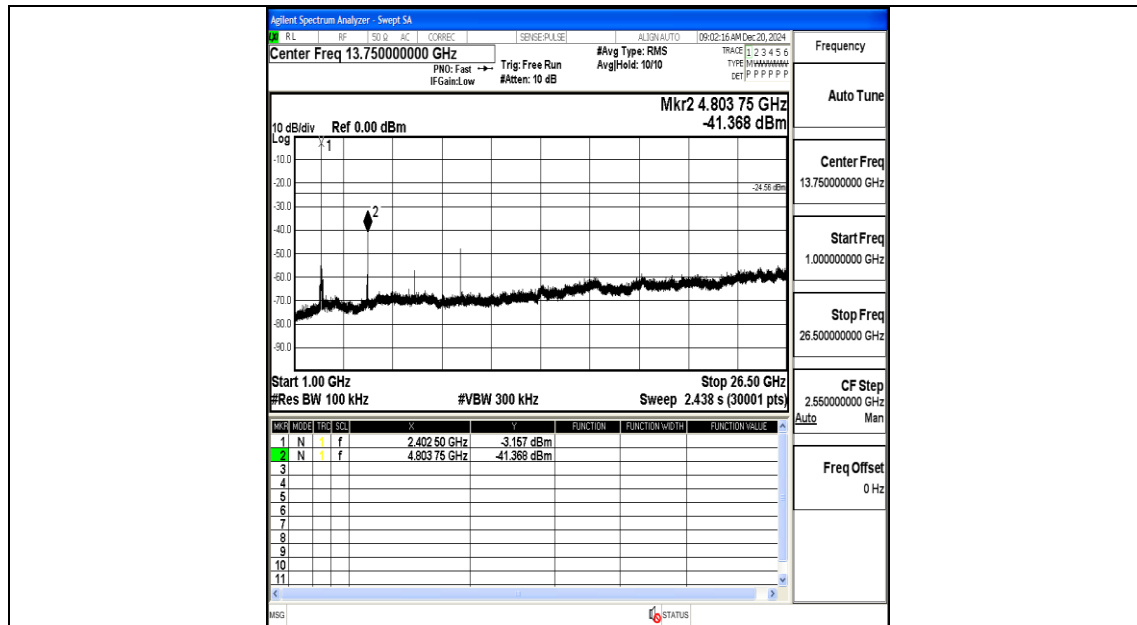
DH5-Ant1-2480-1000~26500-PASS



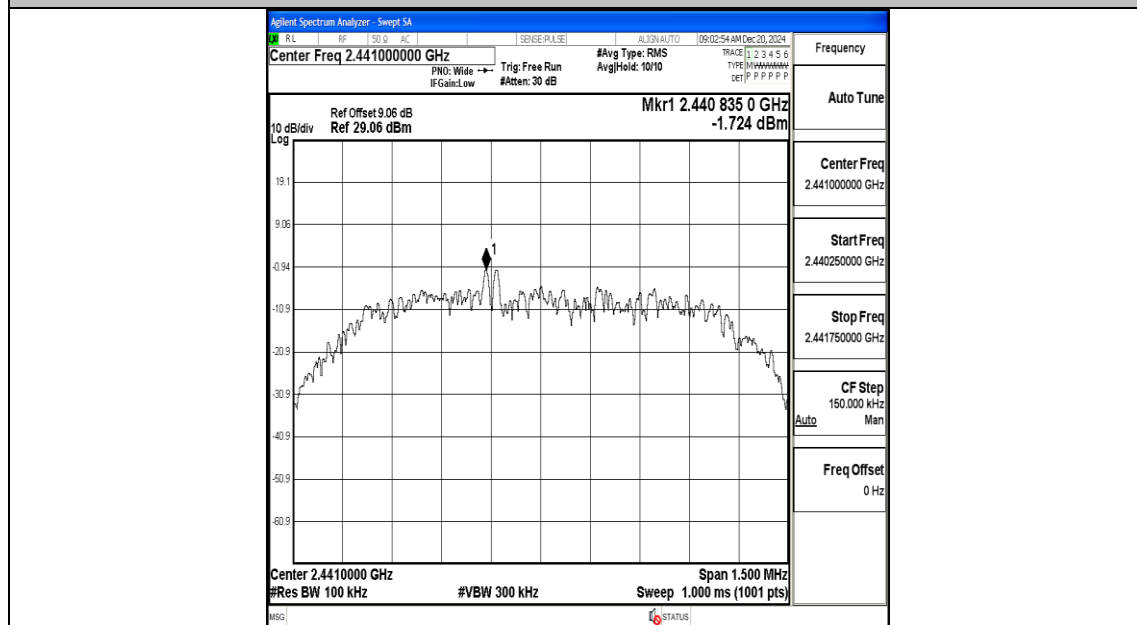
2DH5-Ant1-2402-0~Reference-PASS



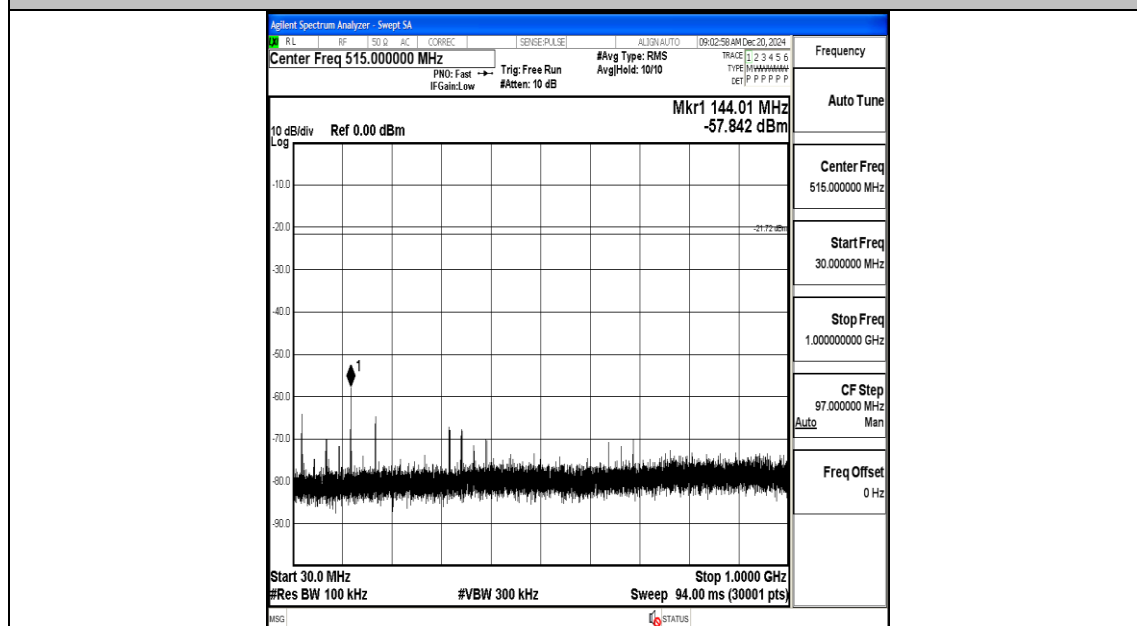
2DH5-Ant1-2402-30~1000-PASS



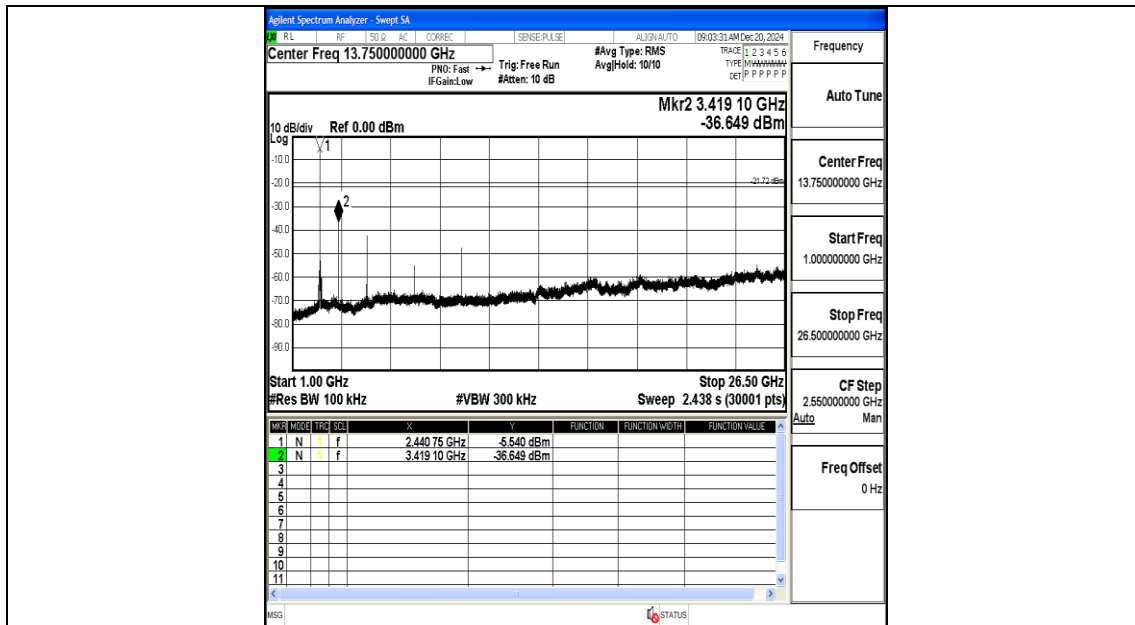
2DH5-Ant1-2402-1000~26500-PASS



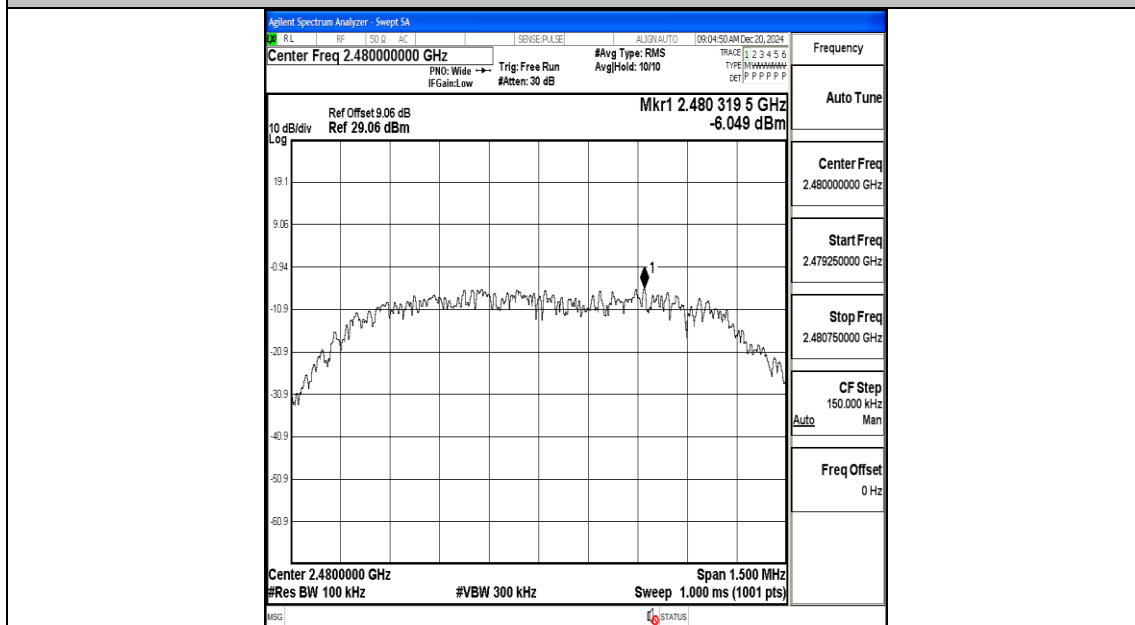
2DH5-Ant1-2441-0~Reference-PASS



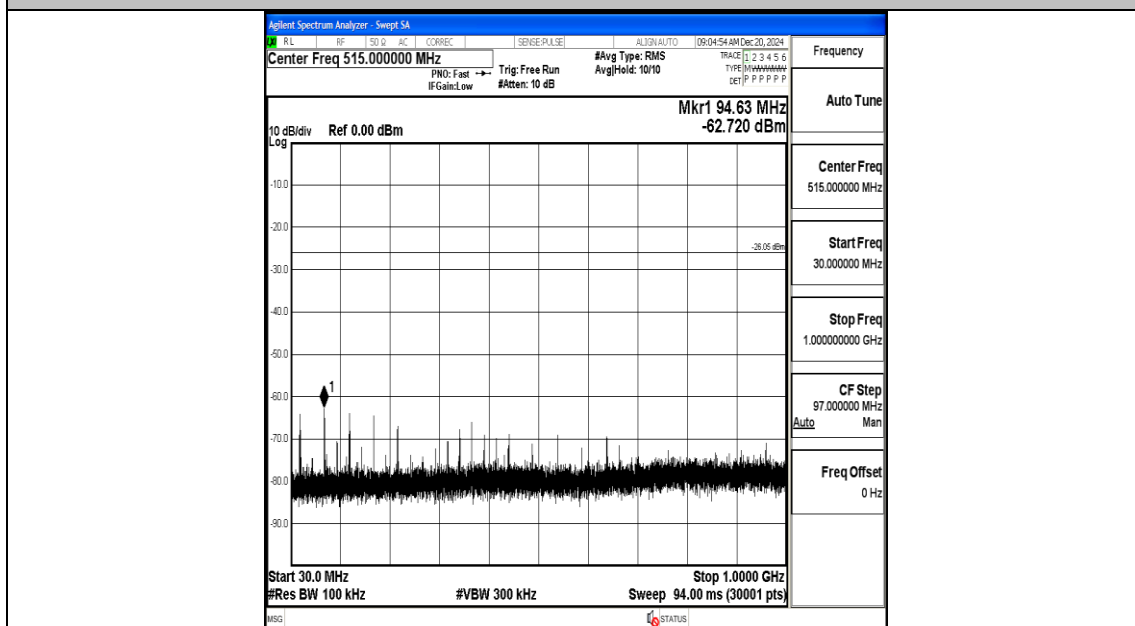
2DH5-Ant1-2441-30~1000-PASS



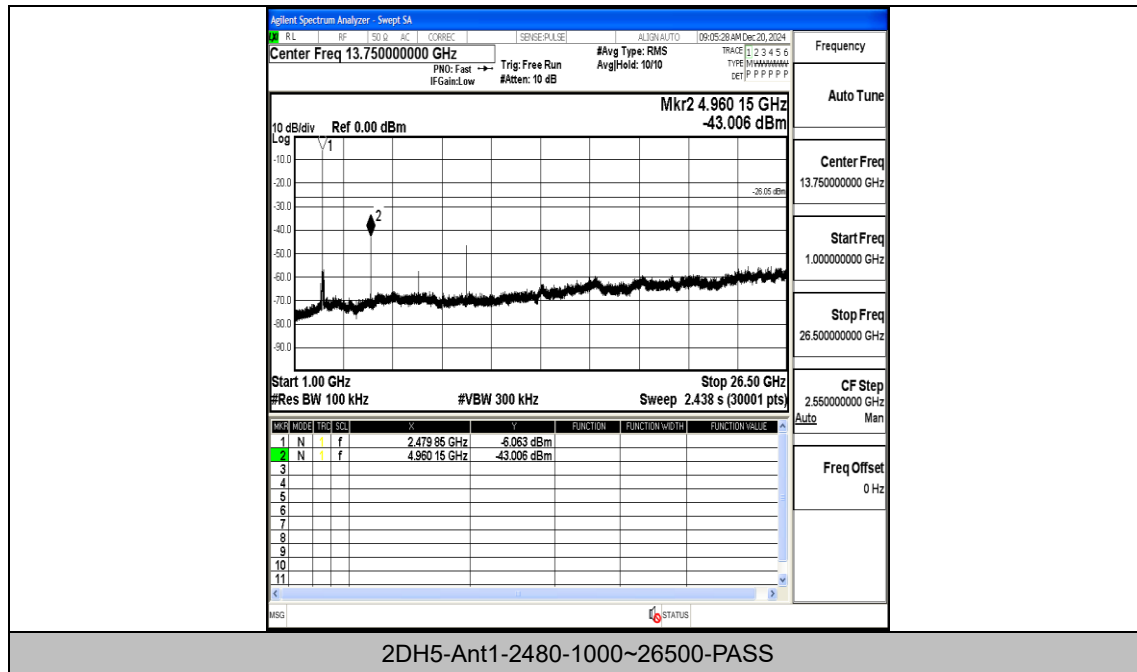
2DH5-Ant1-2441-1000~26500-PASS



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



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

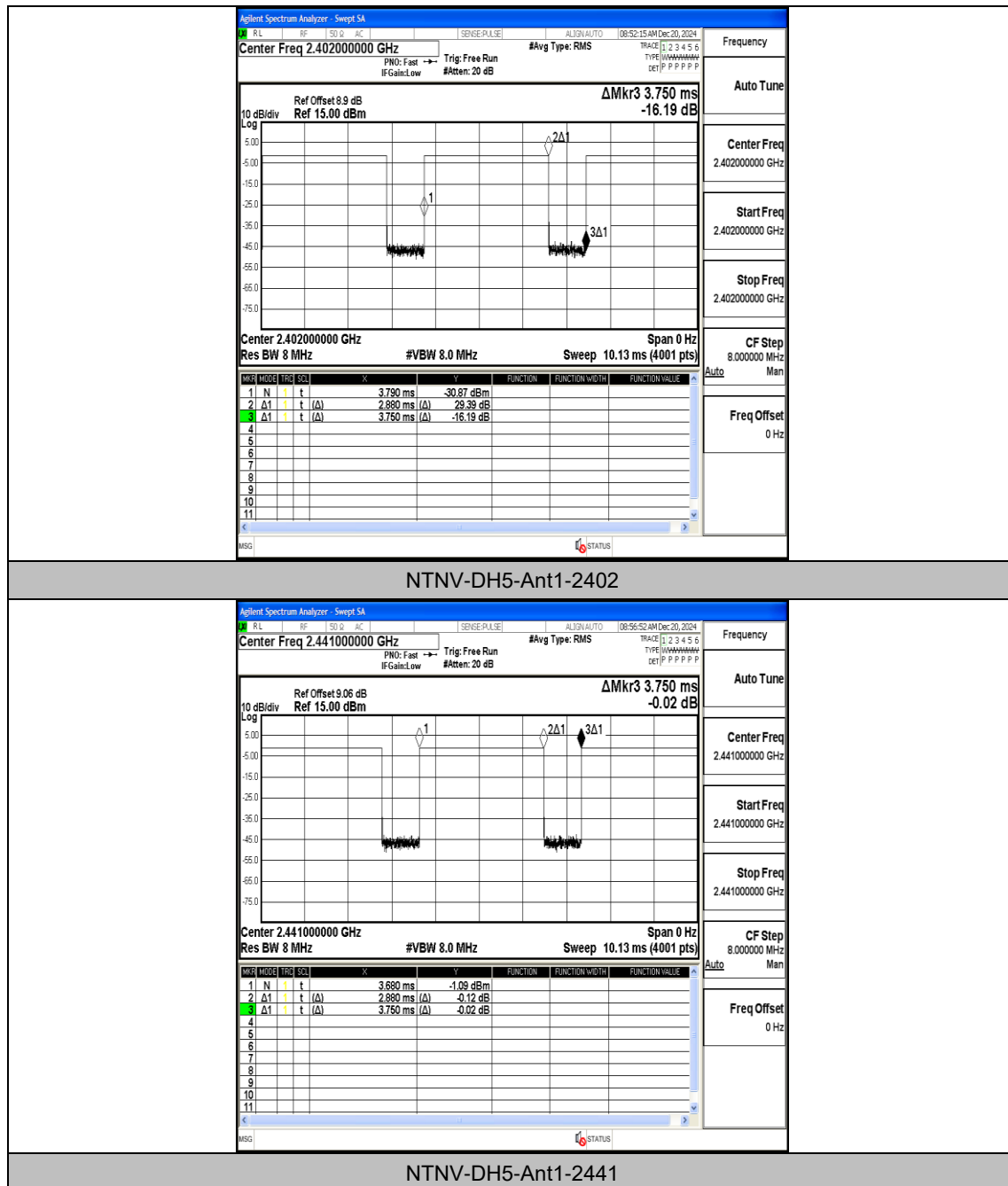


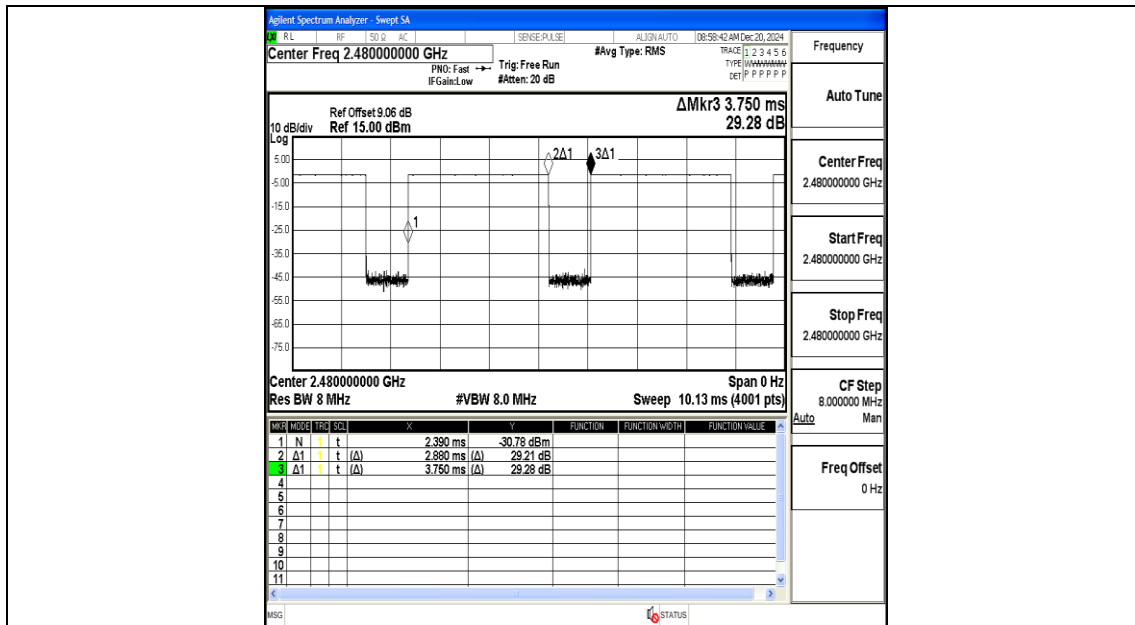
Appendix I: Duty Cycle

Test Result

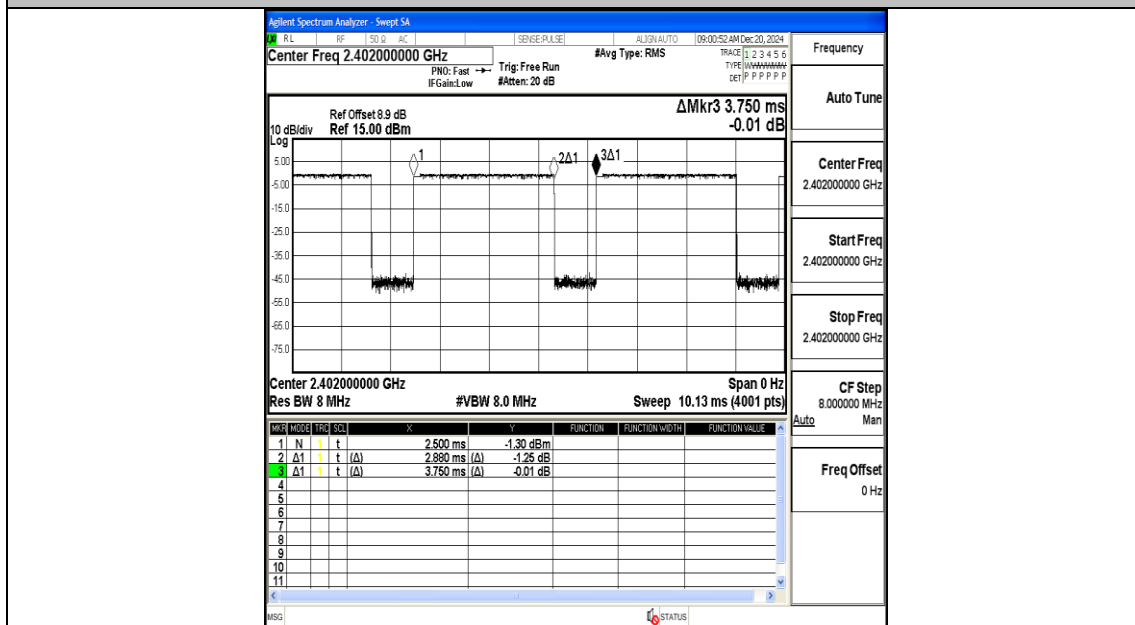
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	2.88	3.75	76.80	1.15
DH5	Ant1	2441	2.88	3.75	76.80	1.15
DH5	Ant1	2480	2.88	3.75	76.80	1.15
2DH5	Ant1	2402	2.88	3.75	76.80	1.15
2DH5	Ant1	2441	2.88	3.75	76.80	1.15
2DH5	Ant1	2480	2.88	3.75	76.80	1.15

Test Graphs

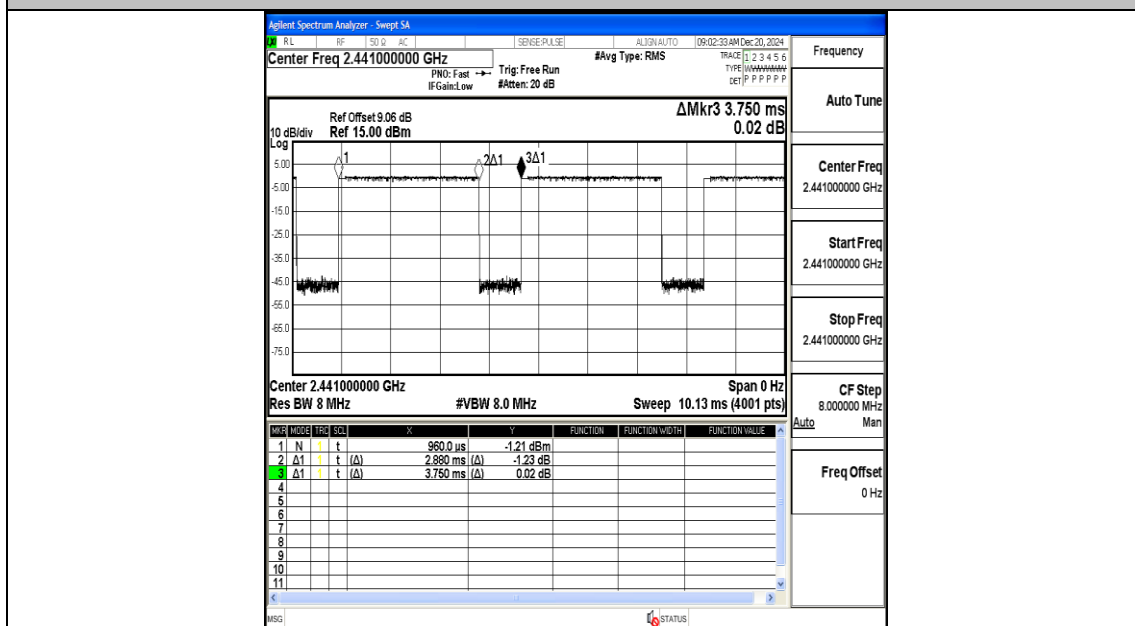




NTNV-DH5-Ant1-2480



NTNV-2DH5-Ant1-2402



NTNV-2DH5-Ant1-2441

