

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

Product Name: Sound bar

Trade Mark: SineAudio Saiyin RIOWOIS Anpharala

Test Model: DS6541S

FCC ID: 2AP93-DS64X

Environmental Conditions

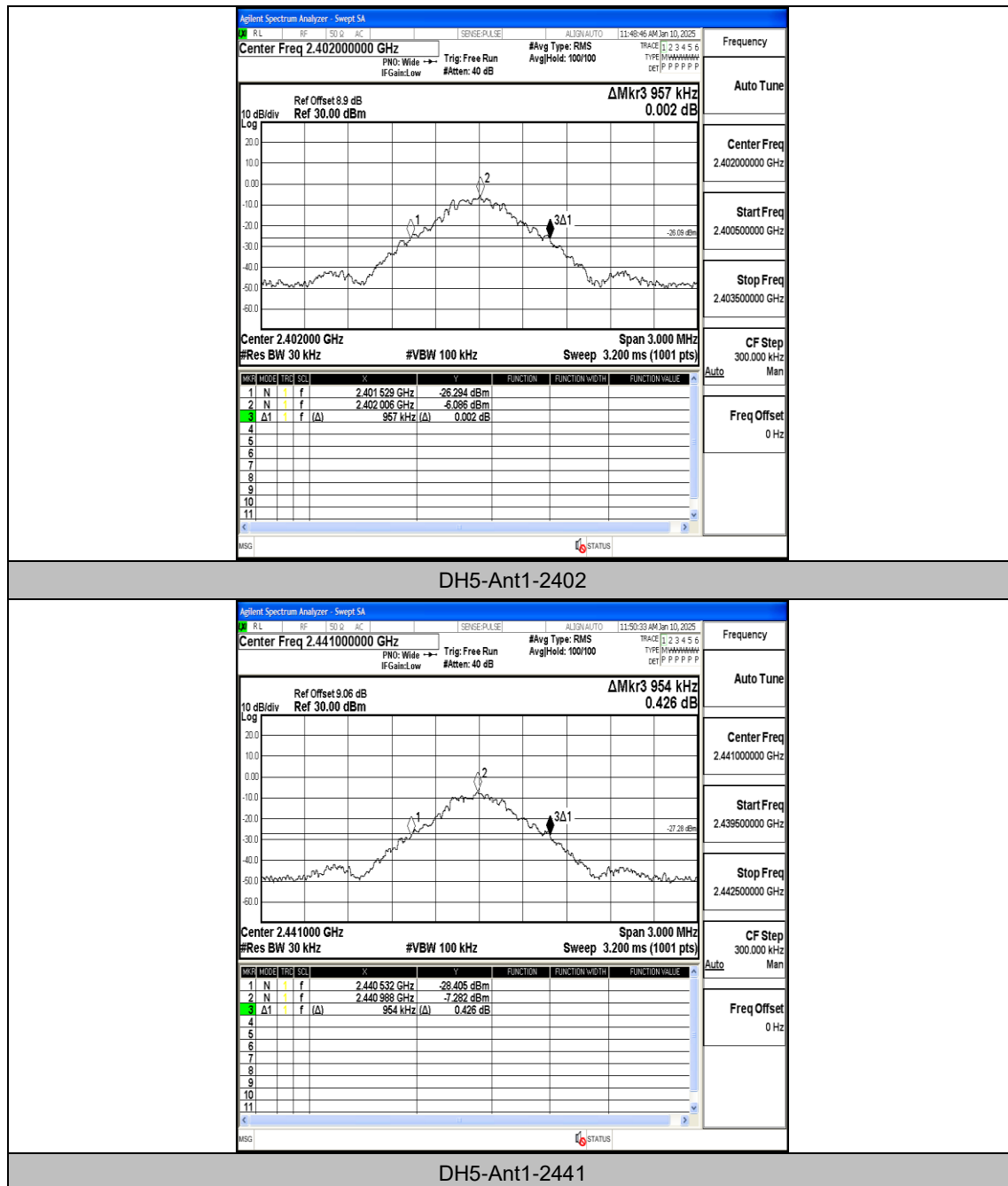
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

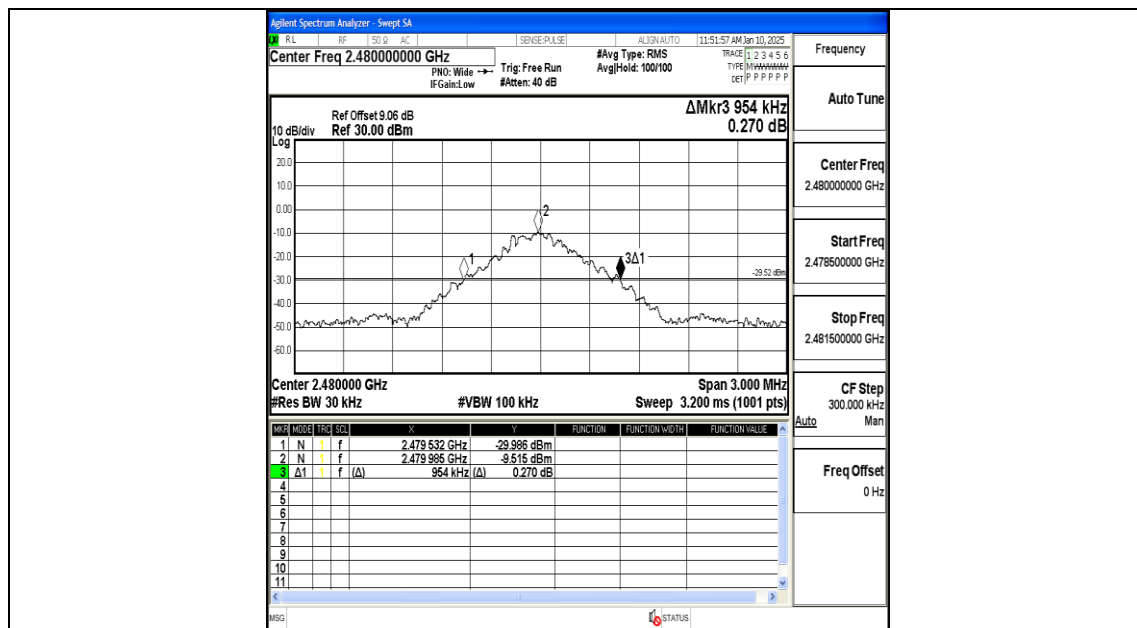
Appendix A: 20dB Emission Bandwidth

Test Result

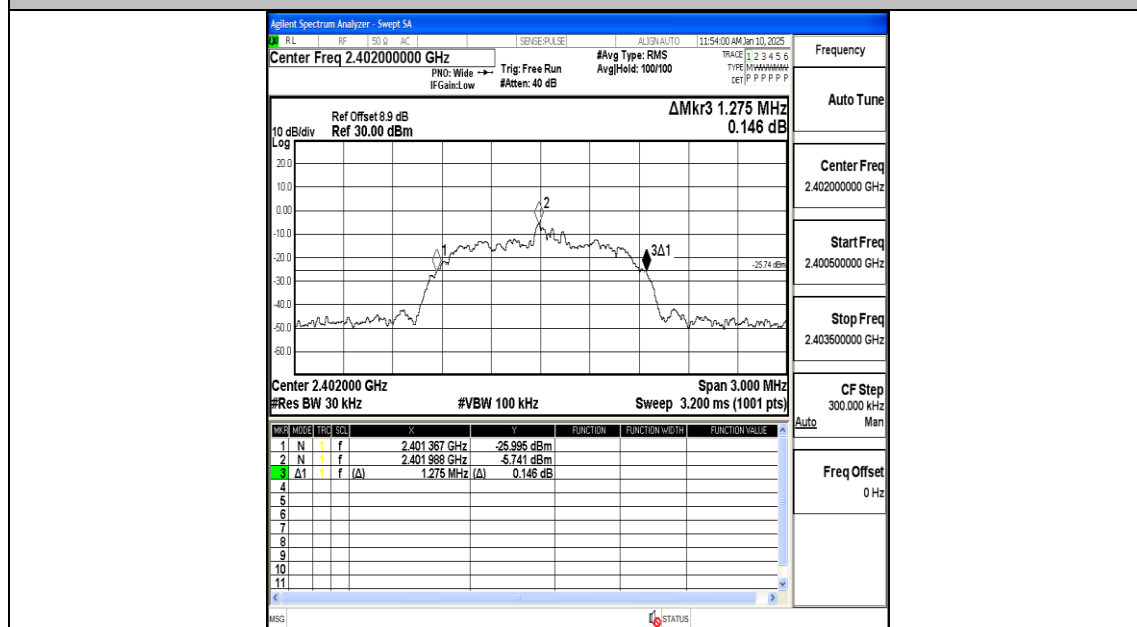
Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.957	2401.529	2402.486	---	---
DH5	Ant1	2441	0.954	2440.532	2441.486	---	---
DH5	Ant1	2480	0.954	2479.532	2480.486	---	---
2DH5	Ant1	2402	1.275	2401.367	2402.642	---	---
2DH5	Ant1	2441	1.287	2440.361	2441.648	---	---
2DH5	Ant1	2480	1.281	2479.364	2480.645	---	---
3DH5	Ant1	2402	1.284	2401.355	2402.639	---	---
3DH5	Ant1	2441	1.293	2440.352	2441.645	---	---
3DH5	Ant1	2480	1.299	2479.346	2480.645	---	---

Test Graphs

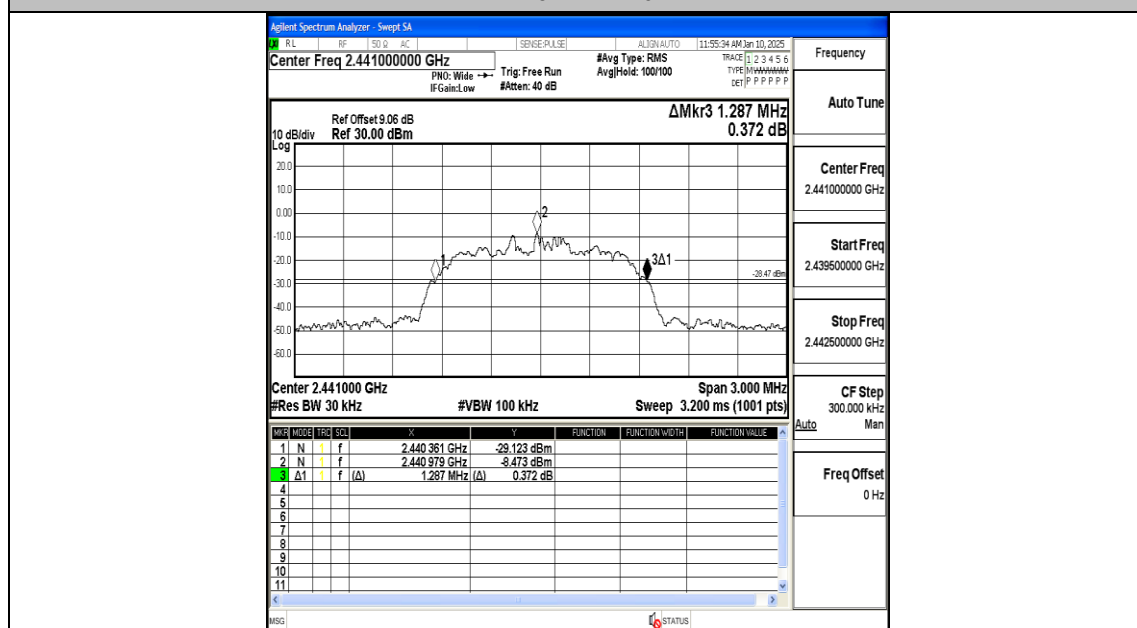




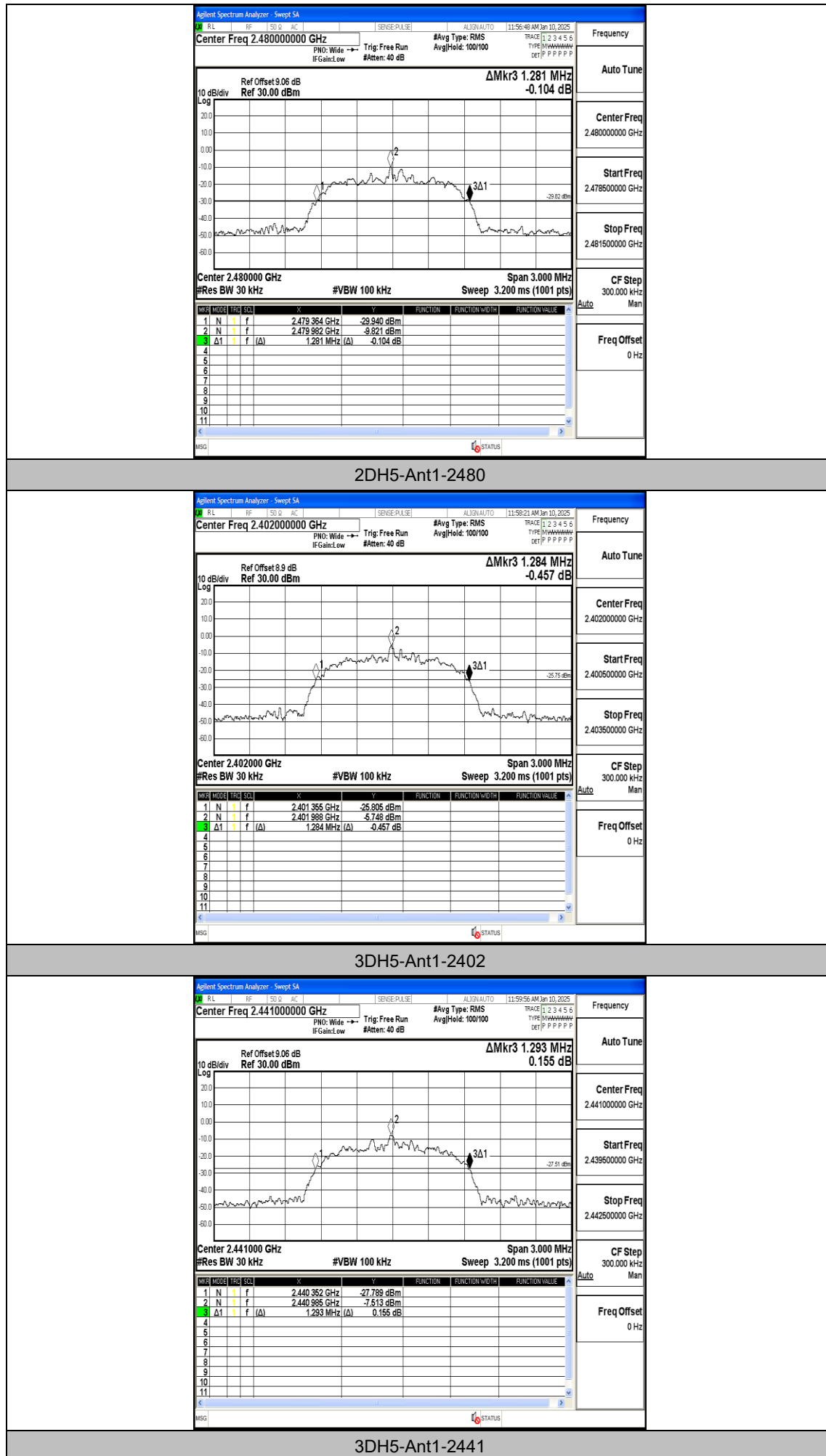
DH5-Ant1-2480

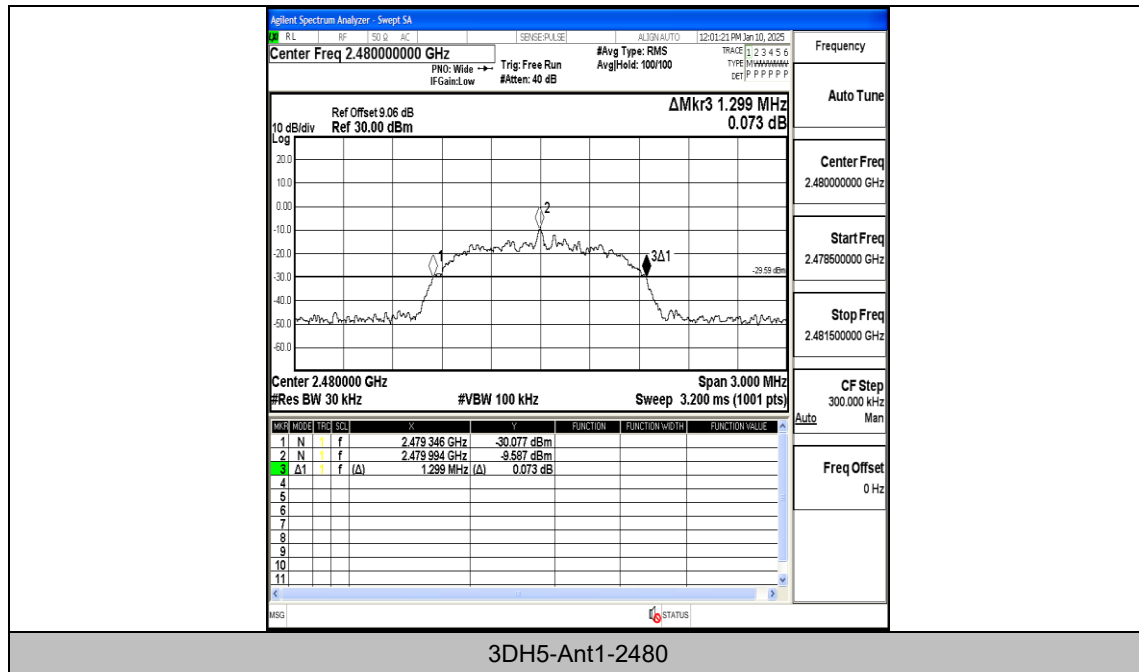


2DH5-Ant1-2402



2DH5-Ant1-2441



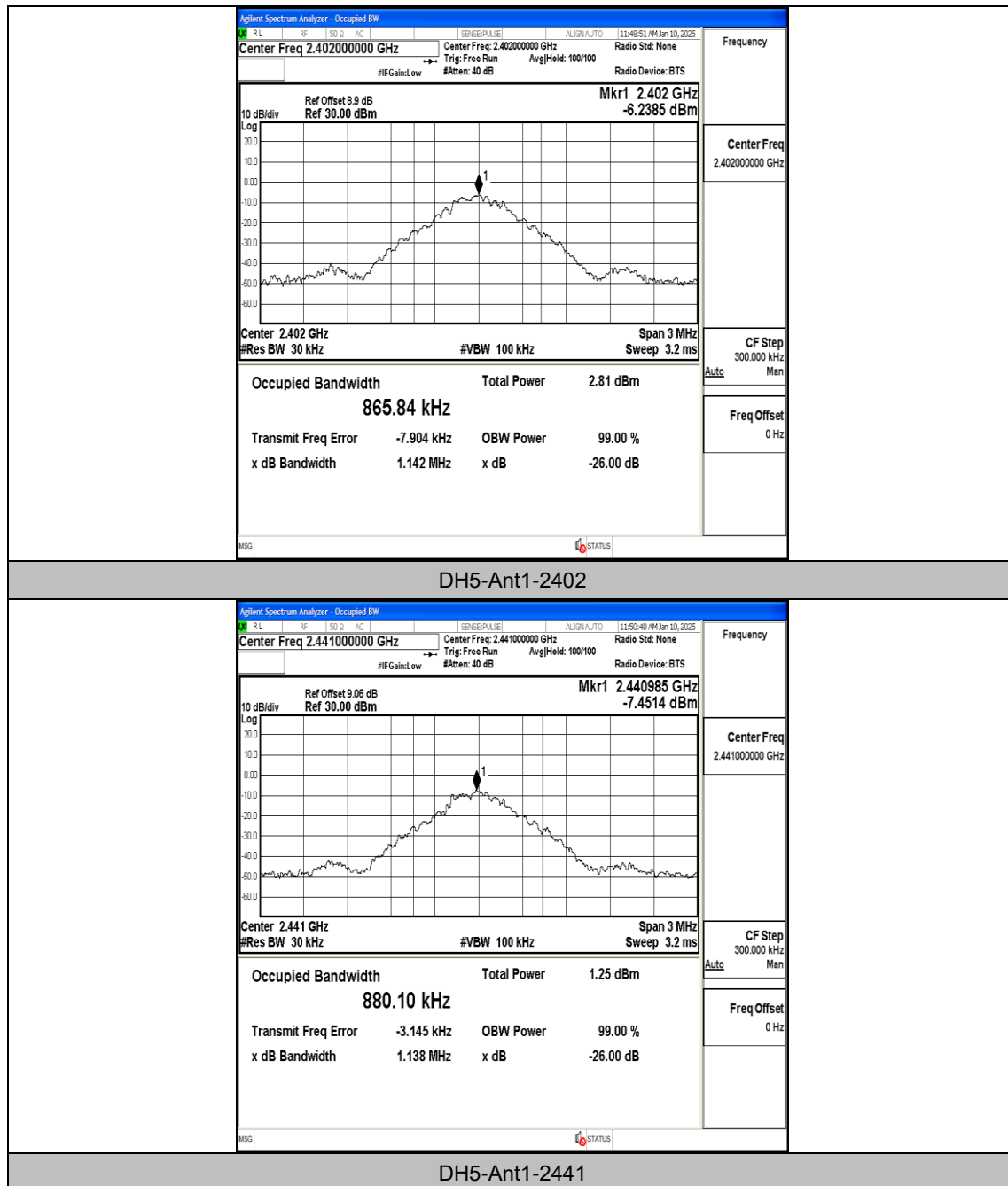


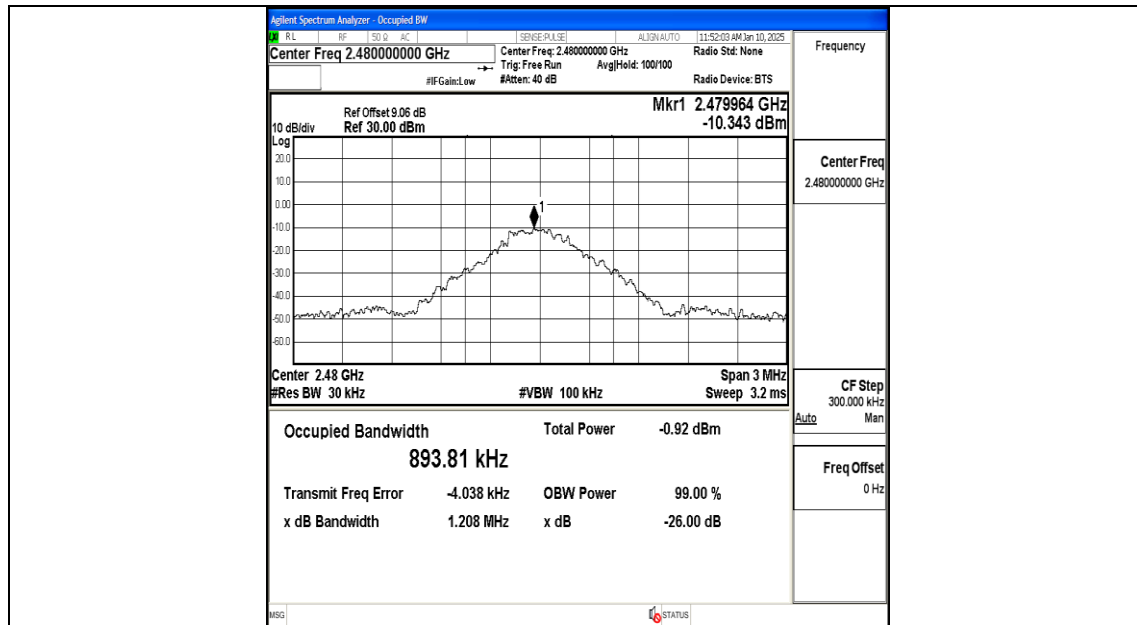
Appendix B: Occupied Channel Bandwidth

Test Result

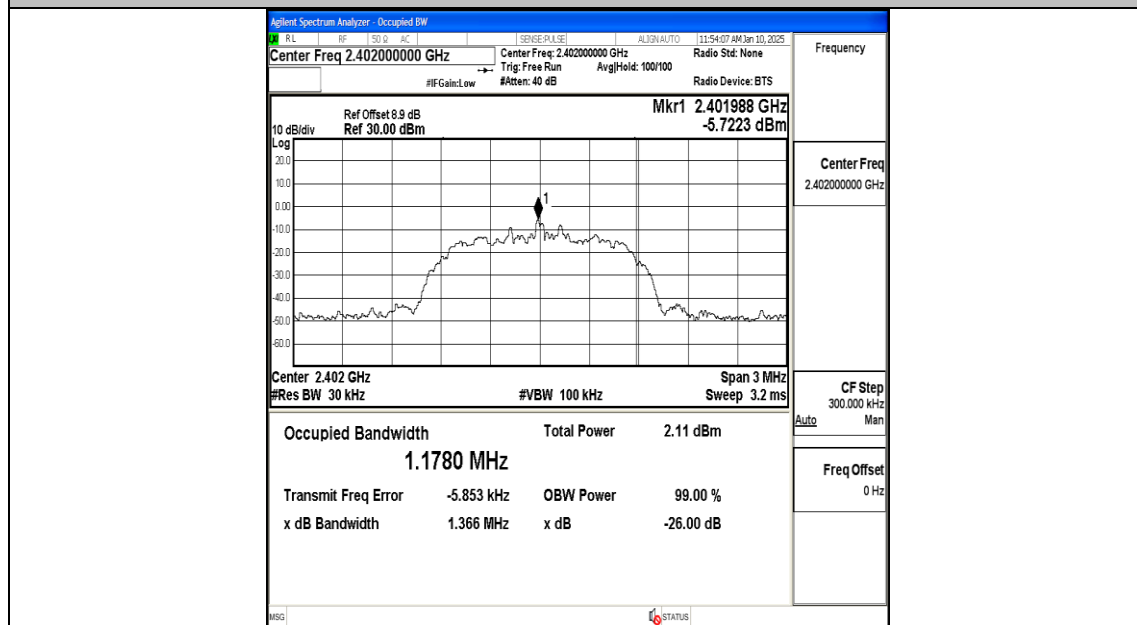
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.86584	2401.5592	2402.4250	---	---
DH5	Ant1	2441	0.88010	2440.5568	2441.4369	---	---
DH5	Ant1	2480	0.89381	2479.5491	2480.4429	---	---
2DH5	Ant1	2402	1.1780	2401.4052	2402.5832	---	---
2DH5	Ant1	2441	1.1749	2440.4044	2441.5793	---	---
2DH5	Ant1	2480	1.1853	2479.3989	2480.5842	---	---
3DH5	Ant1	2402	1.1872	2401.4029	2402.5901	---	---
3DH5	Ant1	2441	1.1913	2440.4027	2441.5940	---	---
3DH5	Ant1	2480	1.1977	2479.3948	2480.5925	---	---

Test Graphs

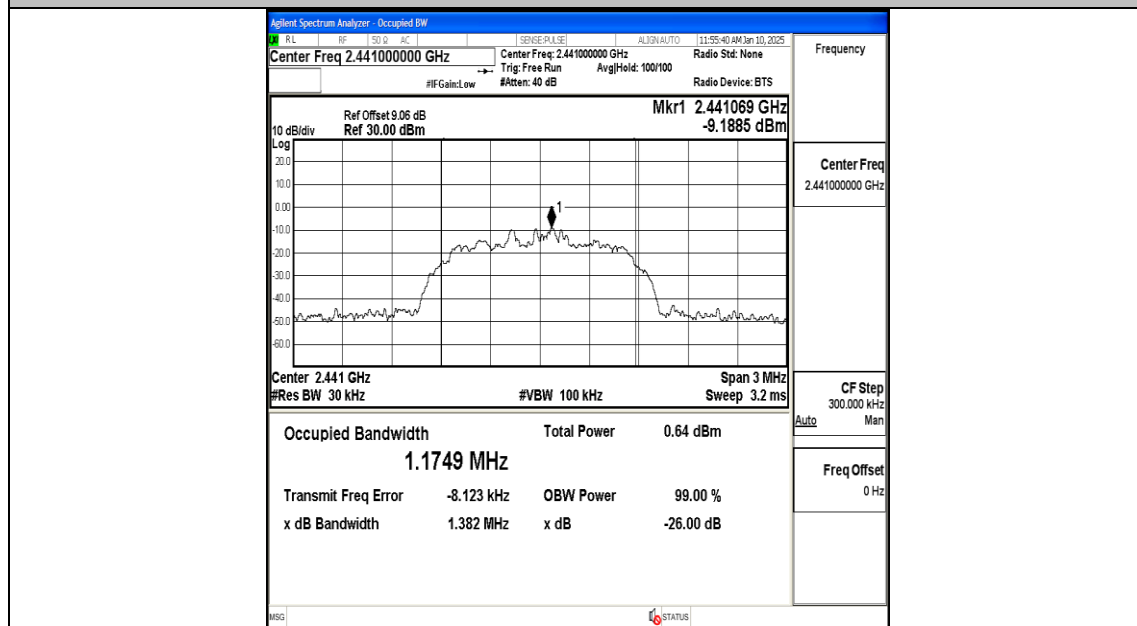




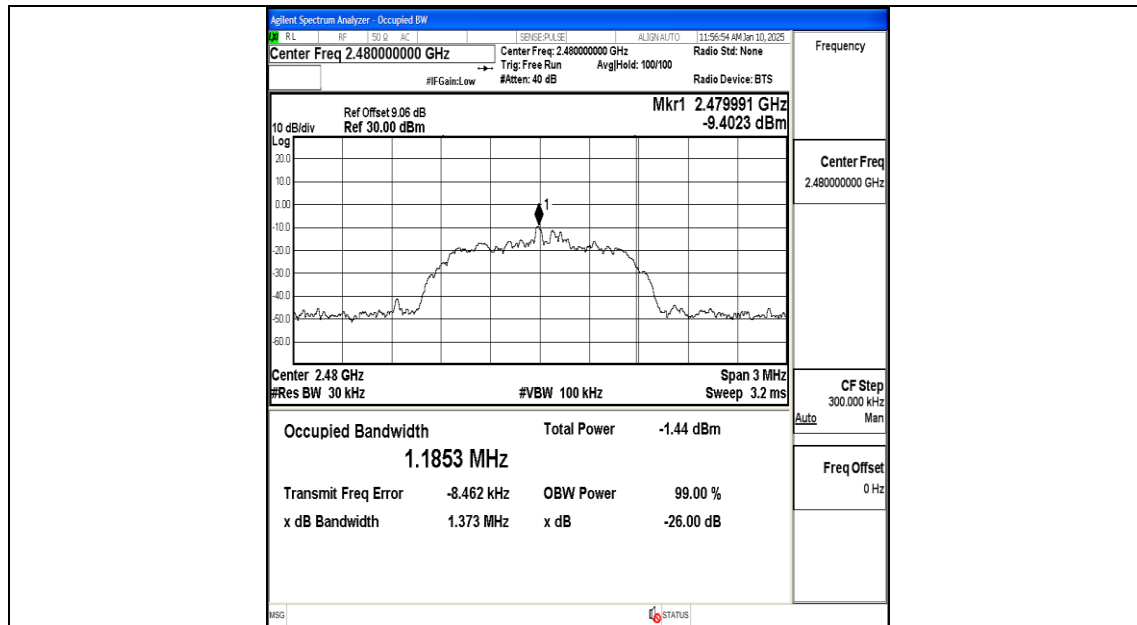
DH5-Ant1-2480



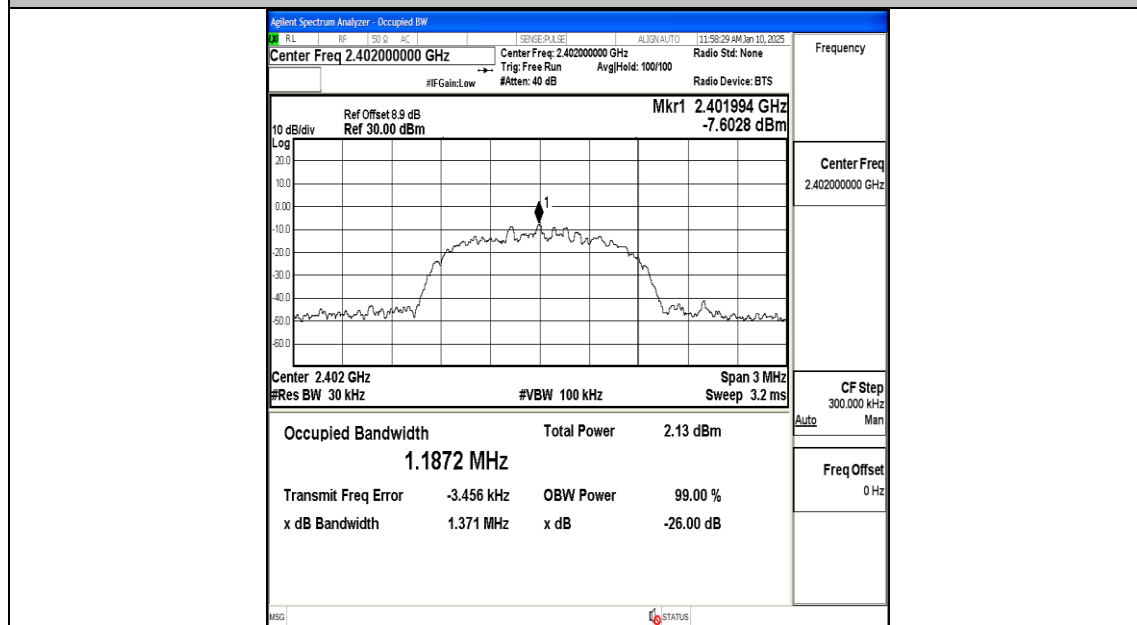
2DH5-Ant1-2402



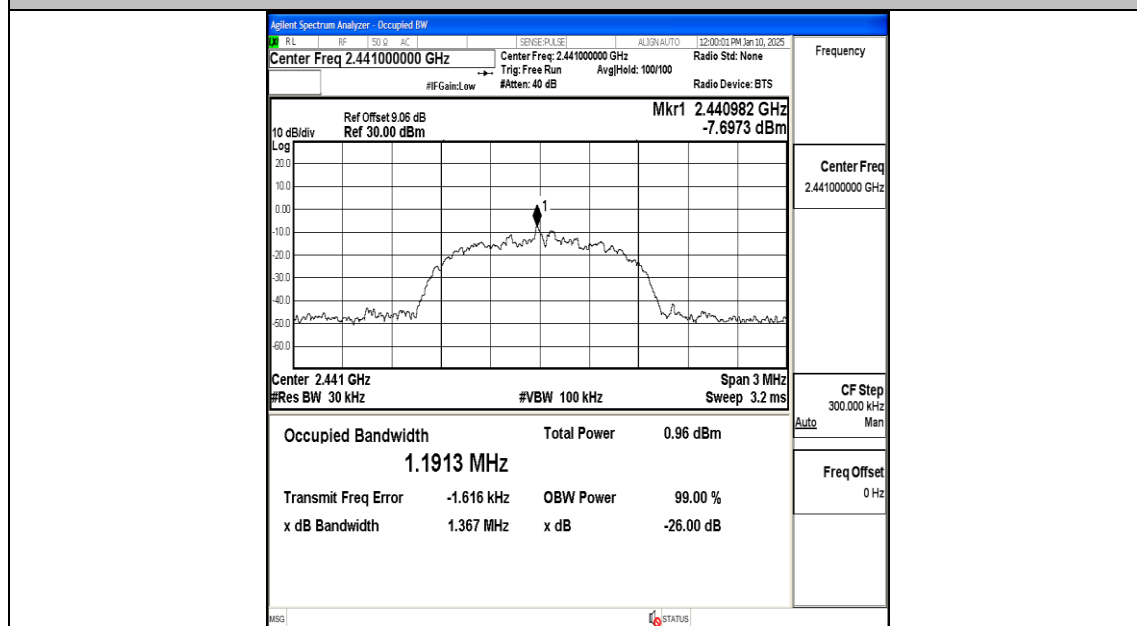
2DH5-Ant1-2441



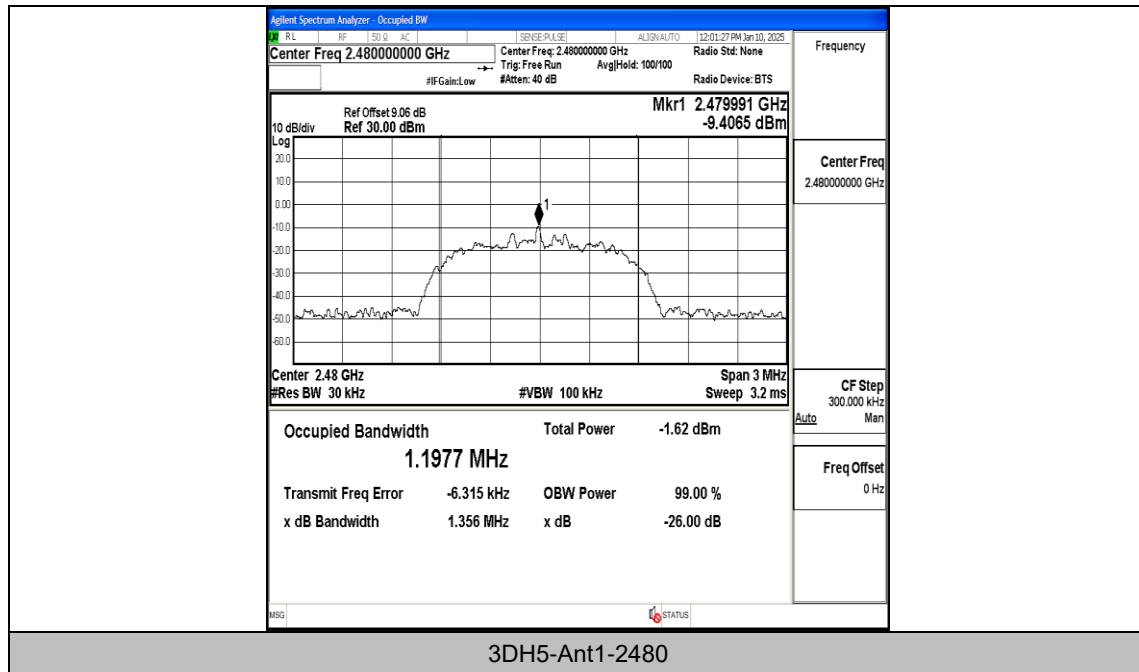
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441

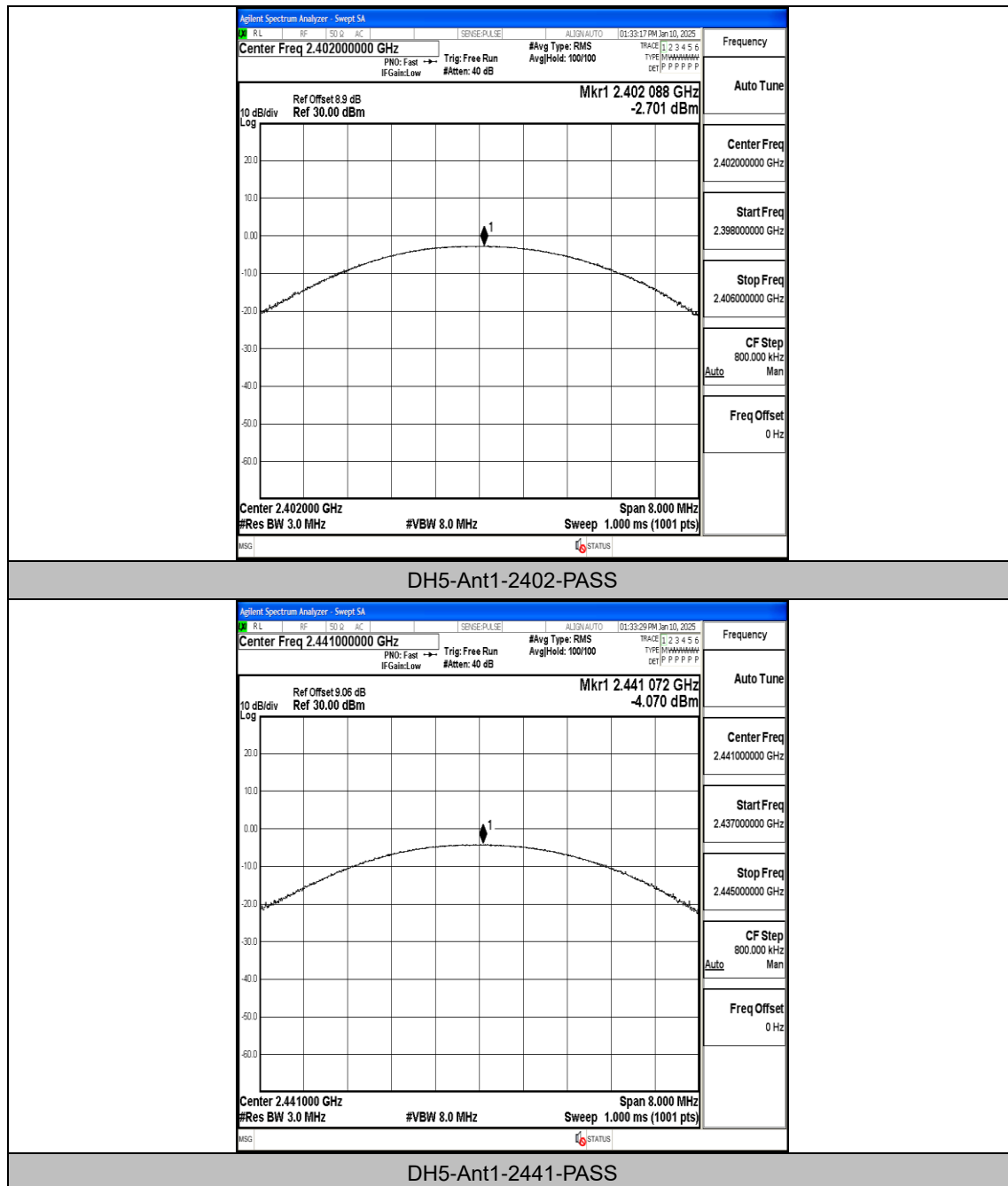


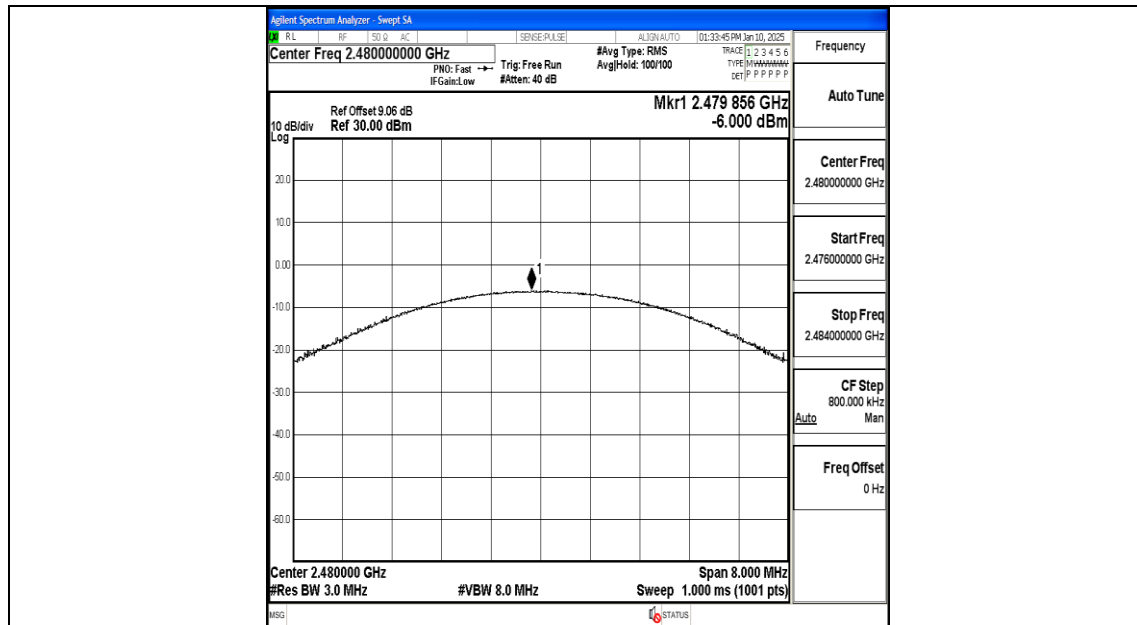
Appendix C: Maximum peak conducted output power

Test Result

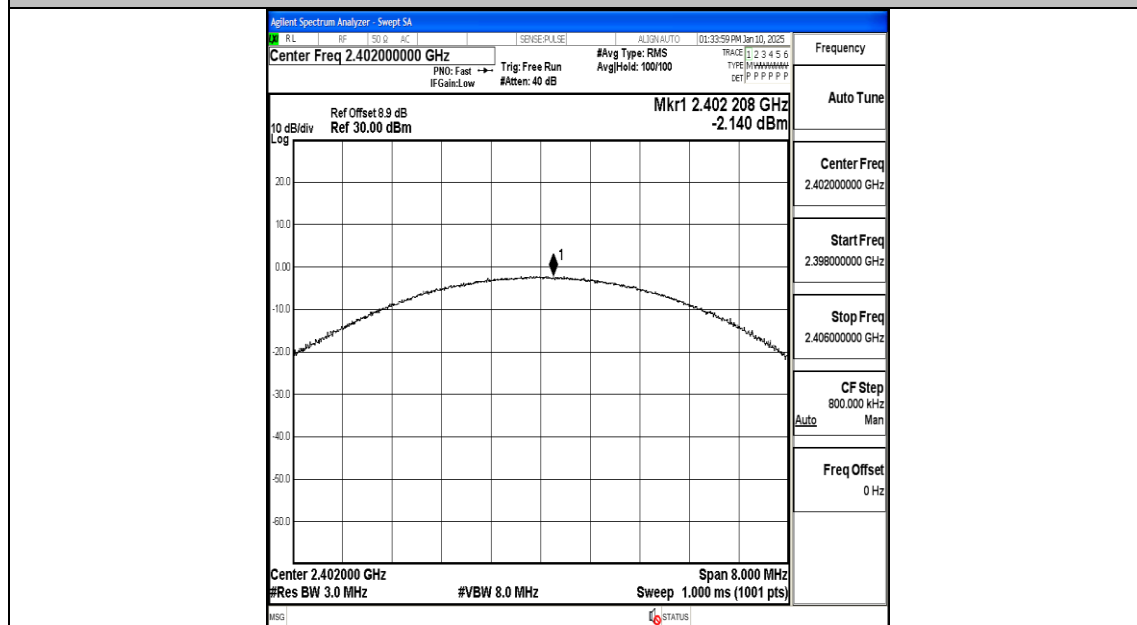
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	-2.70	≤30	PASS
DH5	Ant1	2441	-4.07	≤30	PASS
DH5	Ant1	2480	-6.00	≤30	PASS
2DH5	Ant1	2402	-2.14	≤20.97	PASS
2DH5	Ant1	2441	-3.72	≤20.97	PASS
2DH5	Ant1	2480	-5.83	≤20.97	PASS
3DH5	Ant1	2402	-1.77	≤20.97	PASS
3DH5	Ant1	2441	-3.08	≤20.97	PASS
3DH5	Ant1	2480	-5.15	≤20.97	PASS

Test Graphs

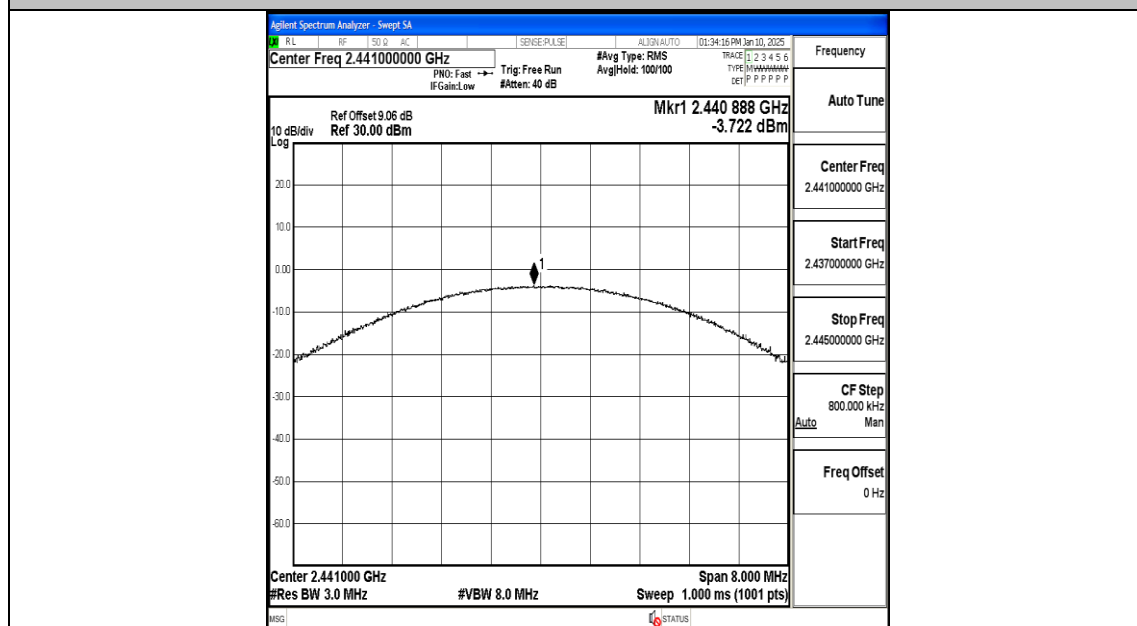




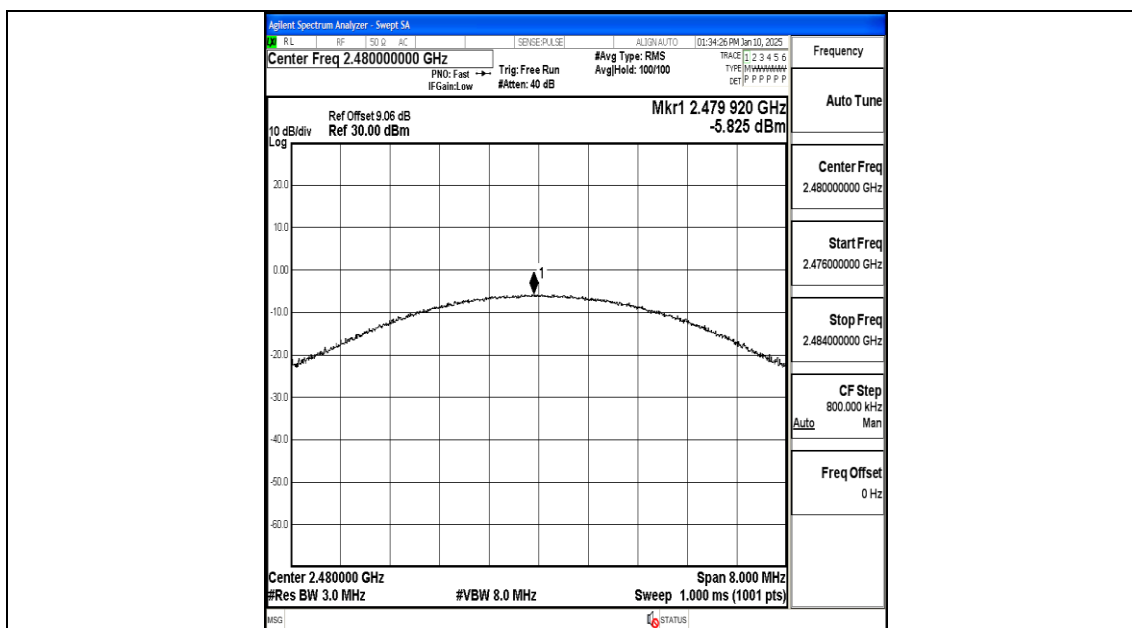
DH5-Ant1-2480-PASS



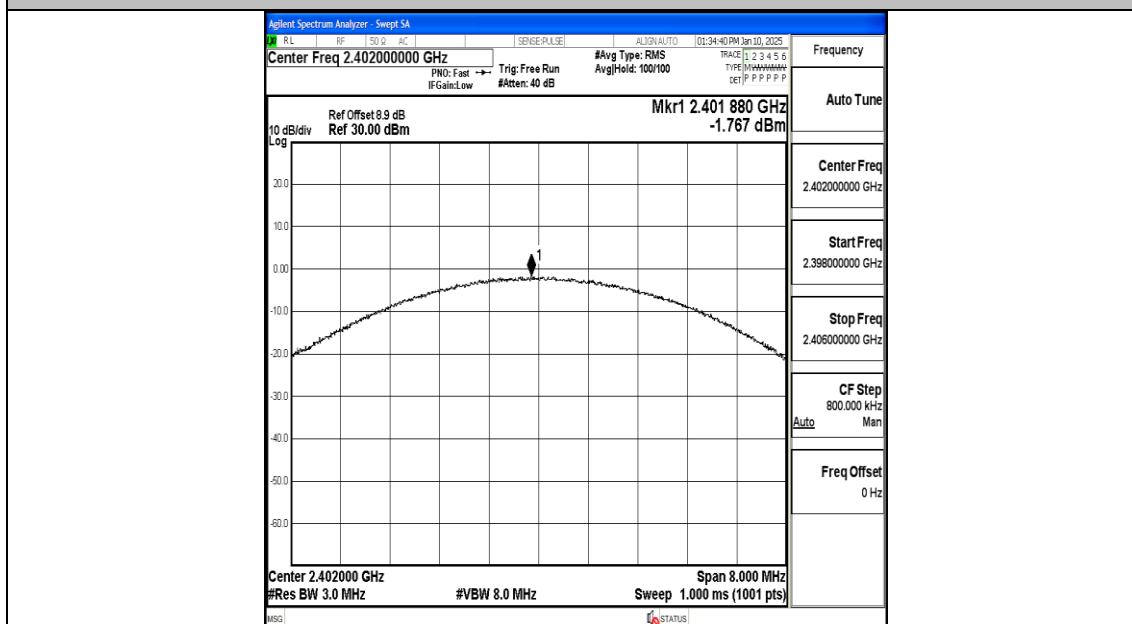
2DH5-Ant1-2402-PASS



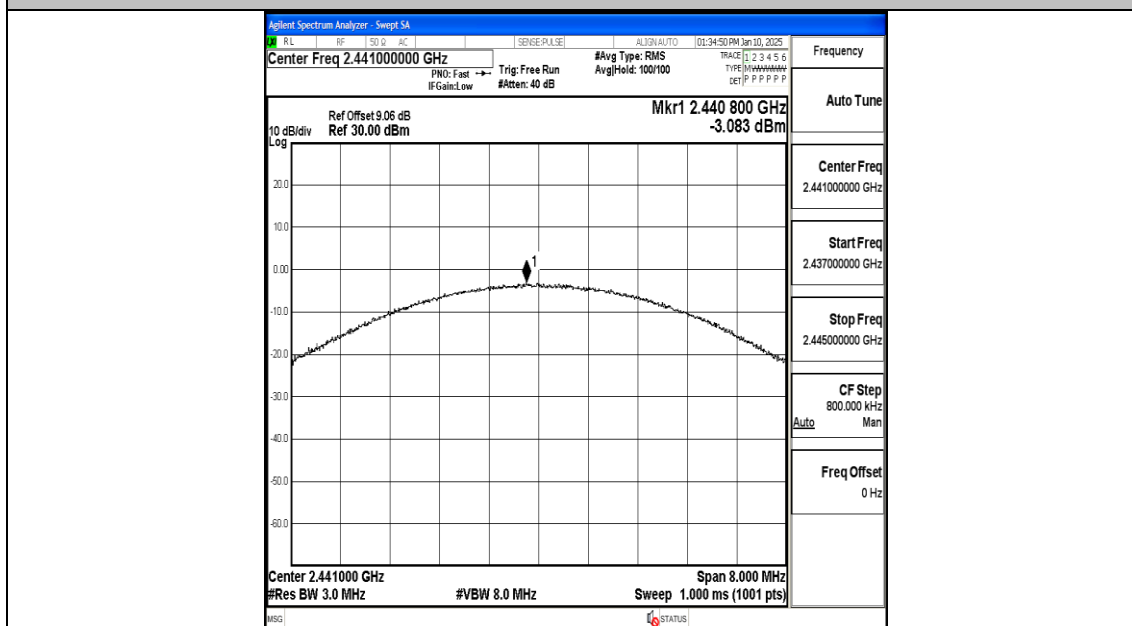
2DH5-Ant1-2441-PASS



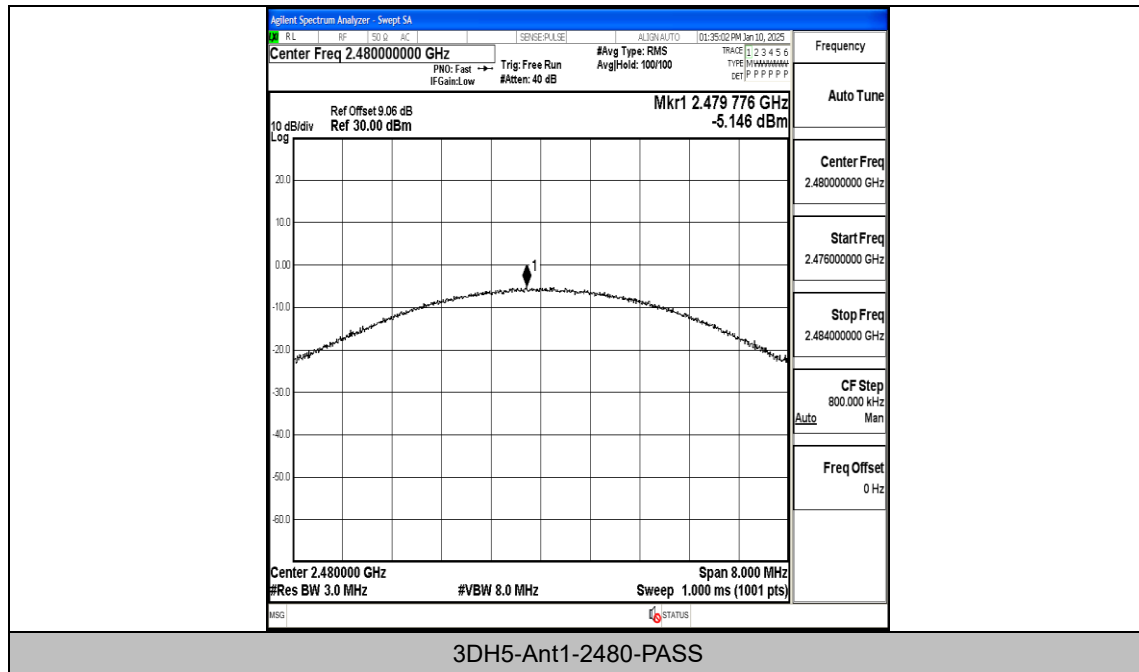
2DH5-Ant1-2480-PASS



3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS

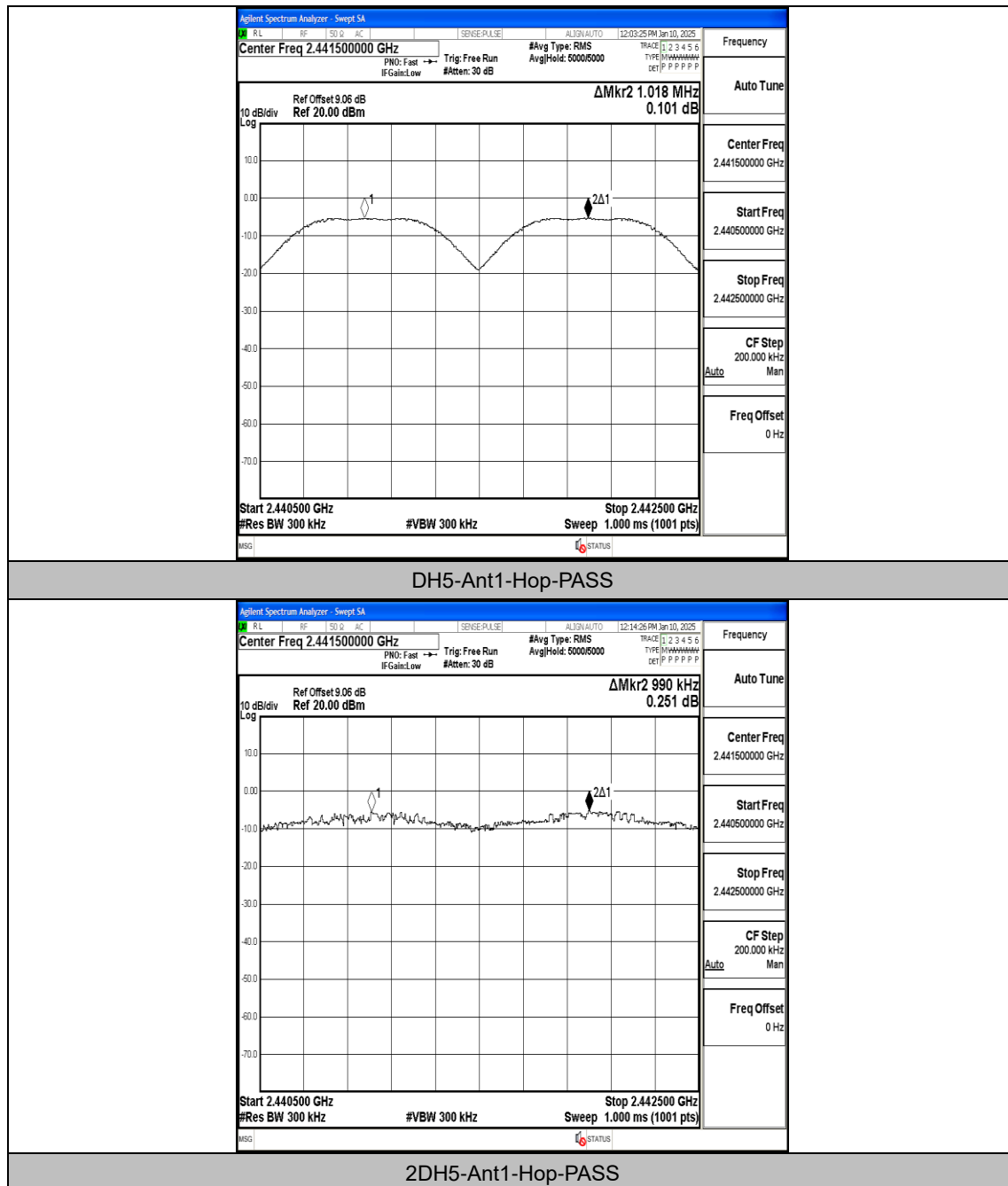


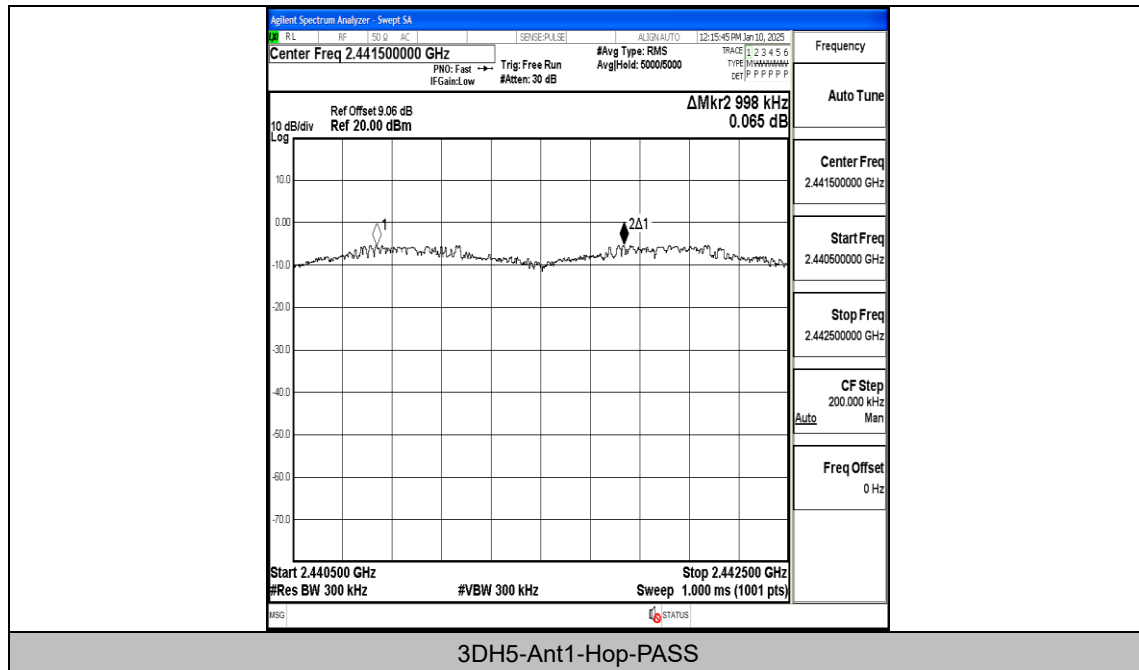
Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.018	≥ 0.957	PASS
2DH5	Ant1	Hop	0.99	≥ 0.858	PASS
3DH5	Ant1	Hop	0.998	≥ 0.866	PASS

Test Graphs



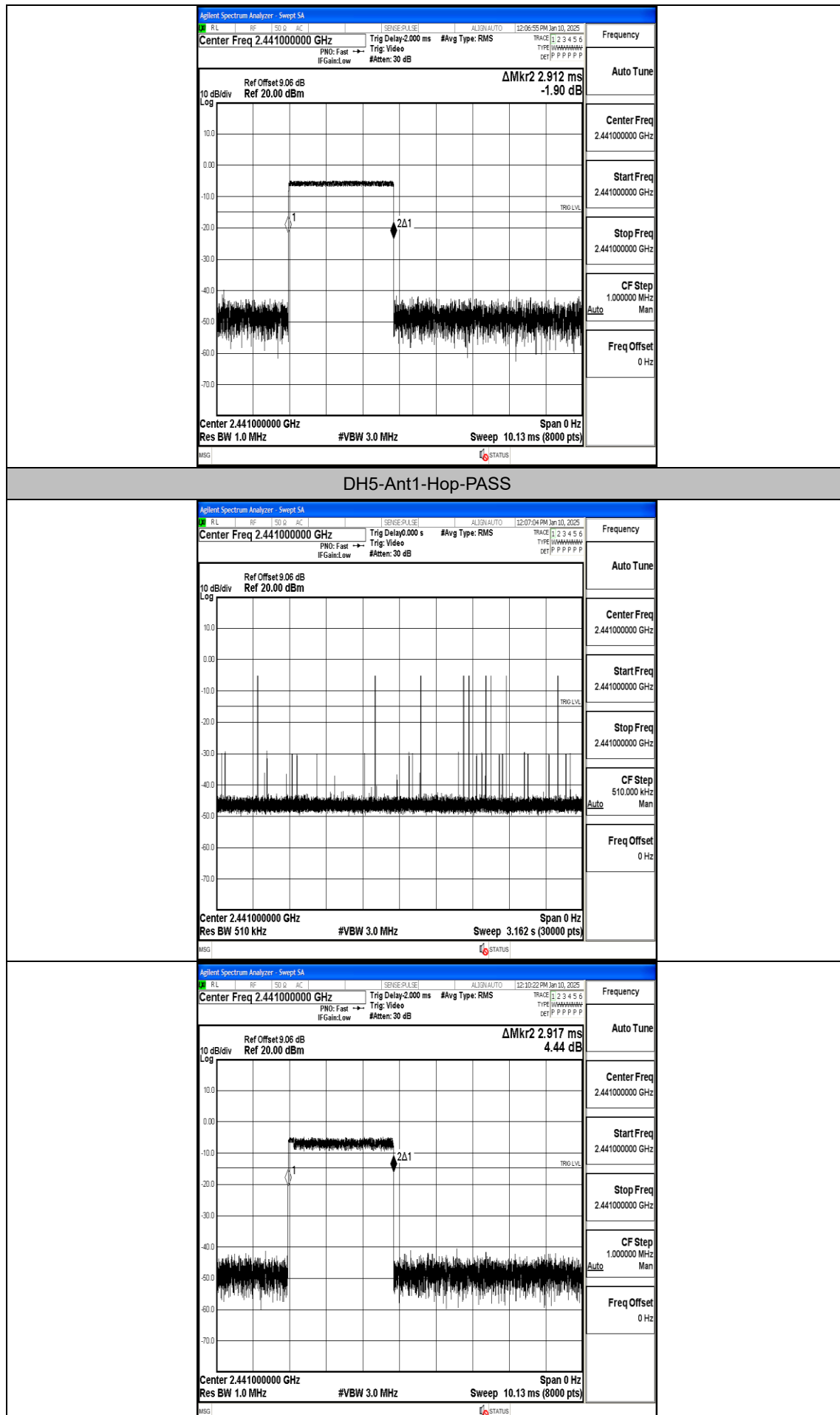


Appendix E: Time of occupancy

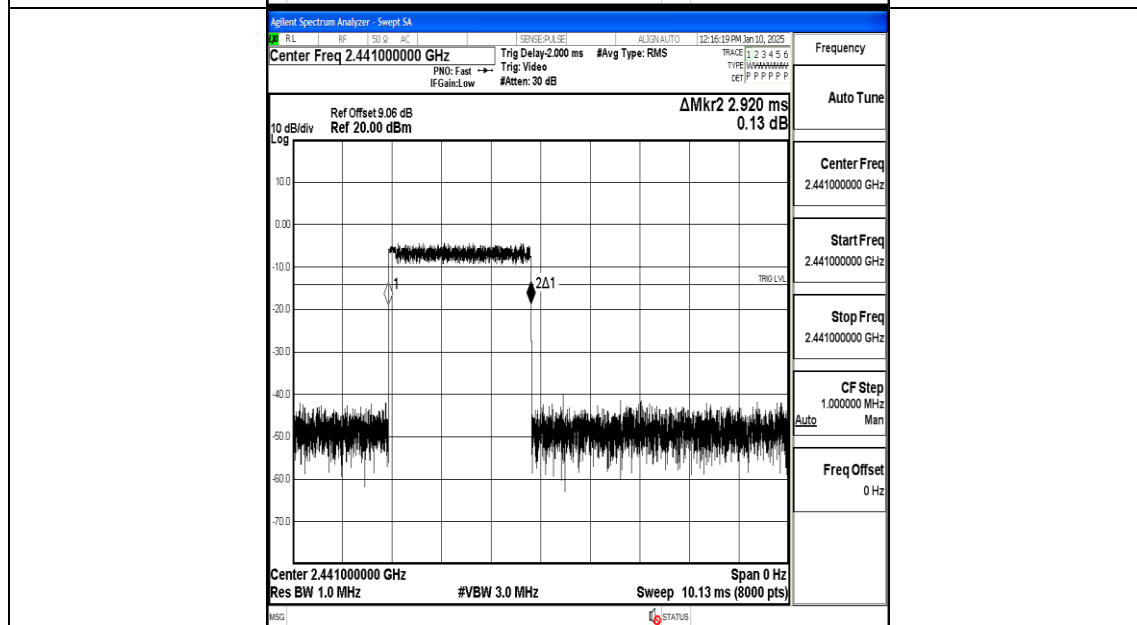
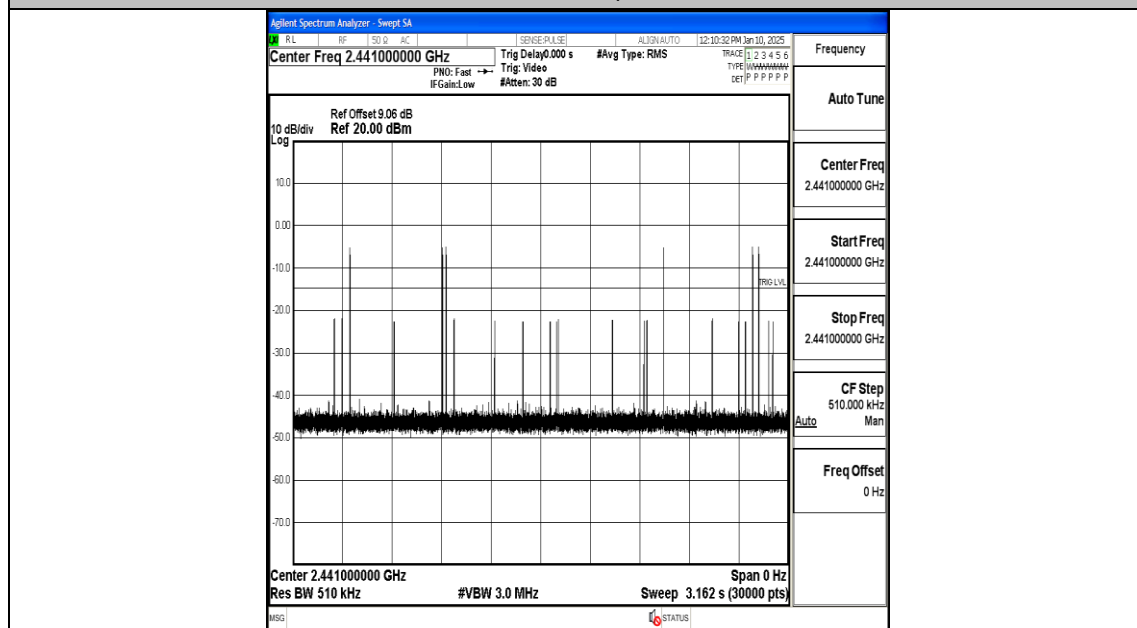
Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.912	100	0.291	≤0.4	PASS
2DH5	Ant1	Hop	2.917	70	0.204	≤0.4	PASS
3DH5	Ant1	Hop	2.920	90	0.263	≤0.4	PASS

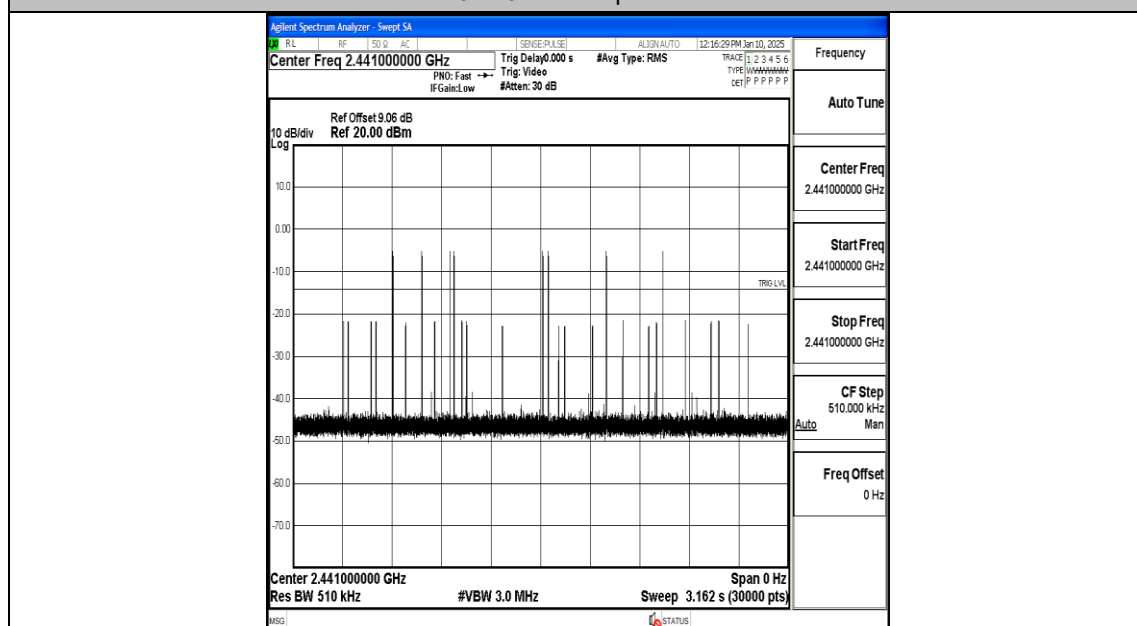
Test Graphs



2DH5-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS



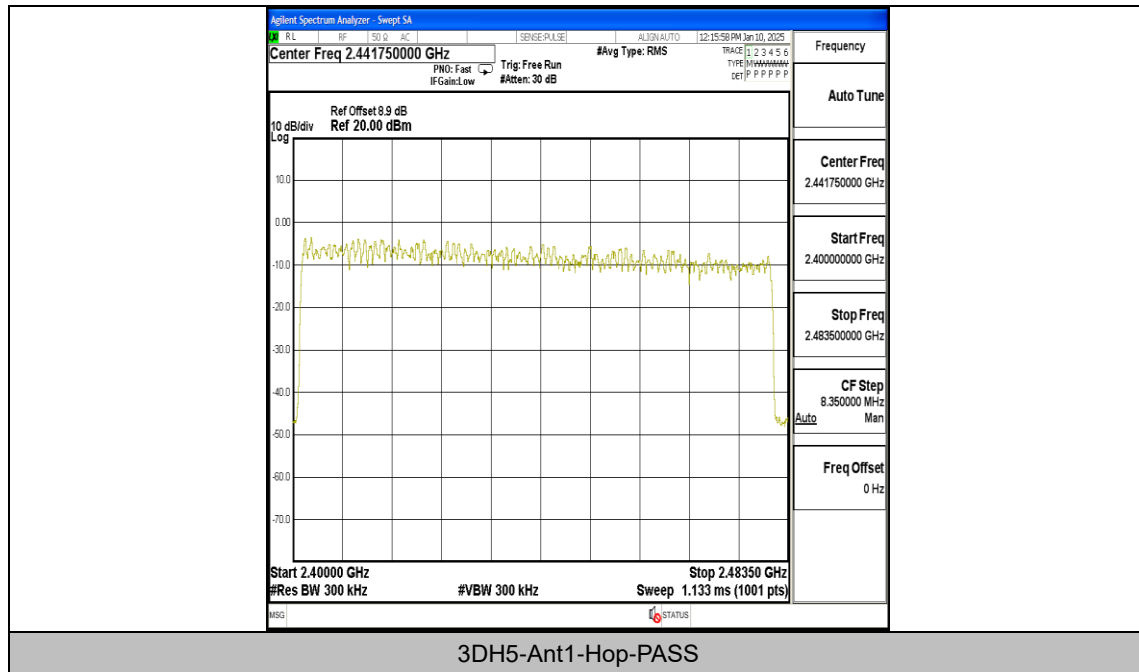
Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



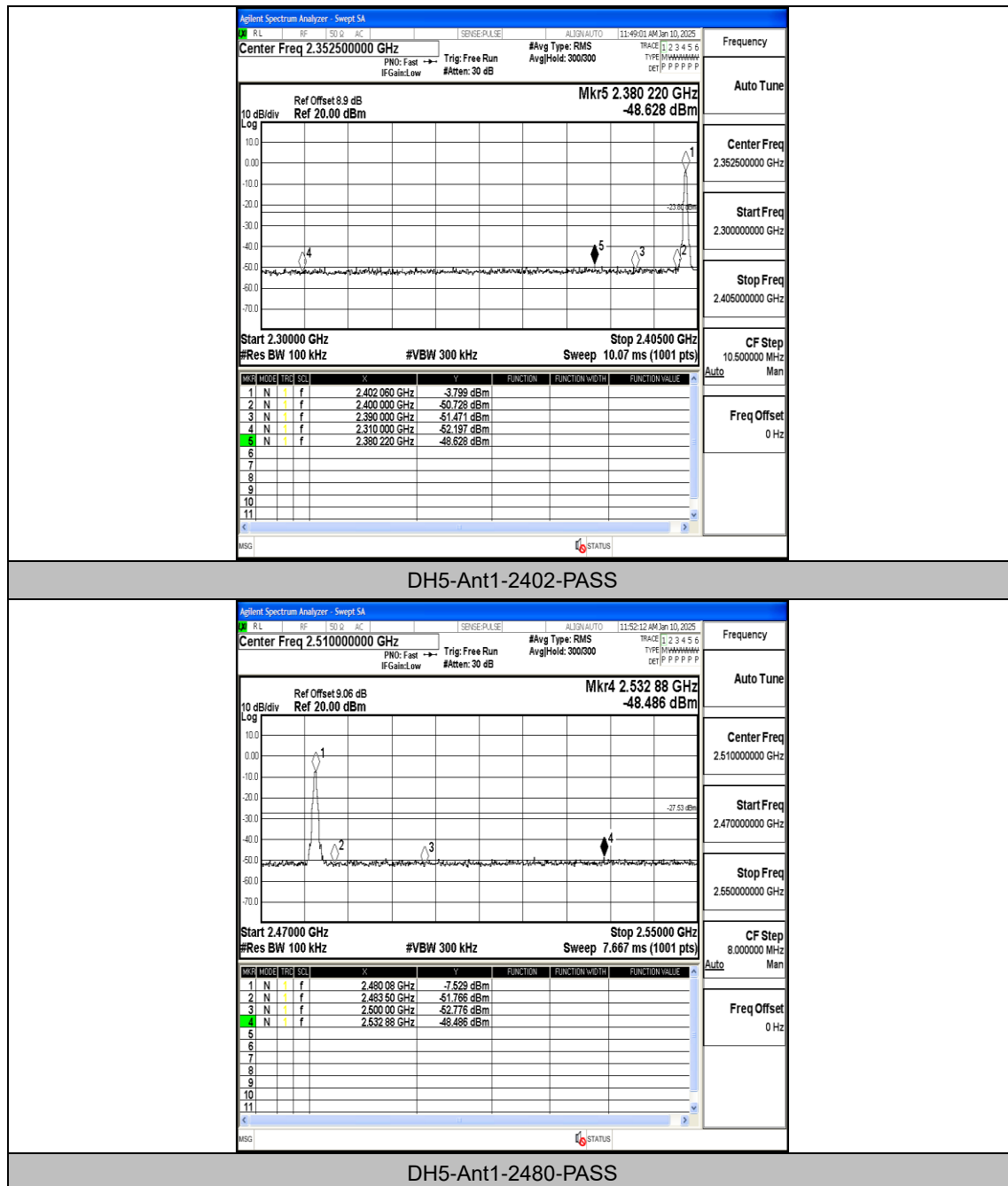


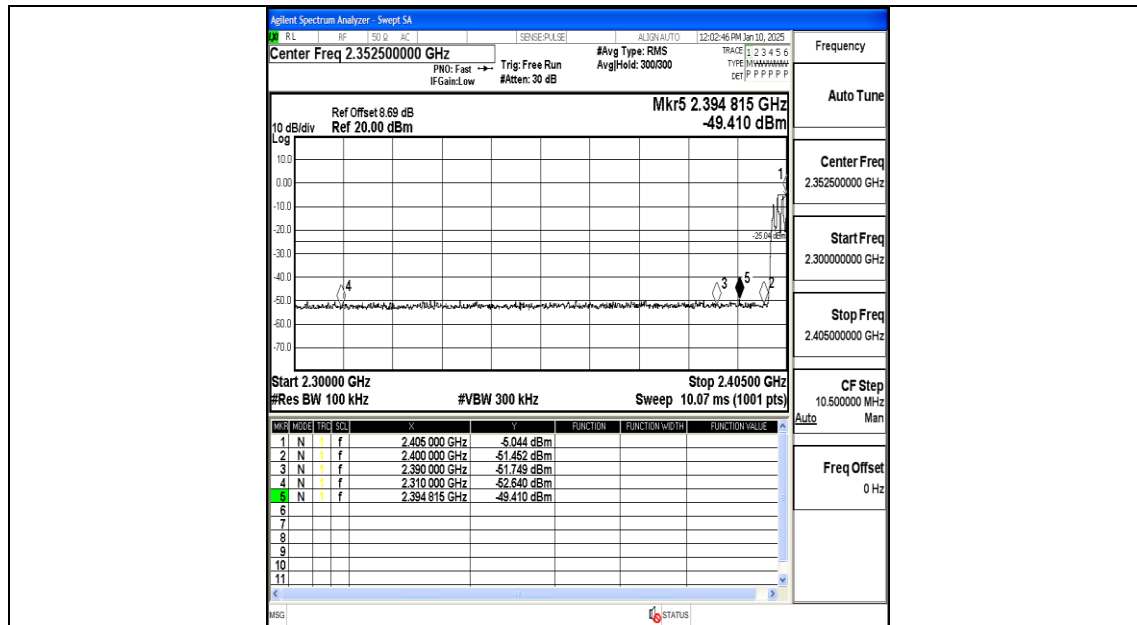
Appendix G: Band edge measurements

Test Result

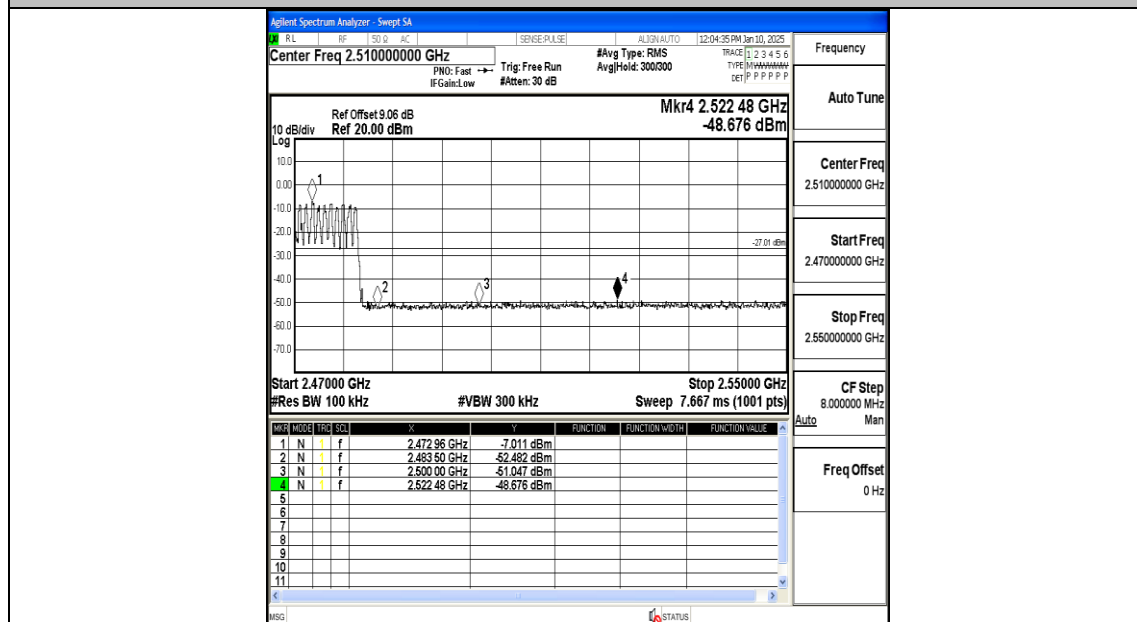
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.80	-48.63	≤ -23.8	PASS
DH5	Ant1	High	2480	-7.53	-48.49	≤ -27.53	PASS
DH5	Ant1	Low	Hop_2402	-5.04	-49.41	≤ -25.04	PASS
DH5	Ant1	High	Hop_2480	-7.01	-48.68	≤ -27.01	PASS
2DH5	Ant1	Low	2402	-4.28	-49.09	≤ -24.28	PASS
2DH5	Ant1	High	2480	-8.22	-48.52	≤ -28.22	PASS
2DH5	Ant1	Low	Hop_2402	-7.26	-48.95	≤ -27.26	PASS
2DH5	Ant1	High	Hop_2480	-7.23	-48.37	≤ -27.23	PASS
3DH5	Ant1	Low	2402	-4.04	-49.52	≤ -24.04	PASS
3DH5	Ant1	High	2480	-7.93	-47.45	≤ -27.93	PASS
3DH5	Ant1	Low	Hop_2402	-8.17	-49.56	≤ -28.17	PASS
3DH5	Ant1	High	Hop_2480	-7.57	-48.64	≤ -27.57	PASS

Test Graphs

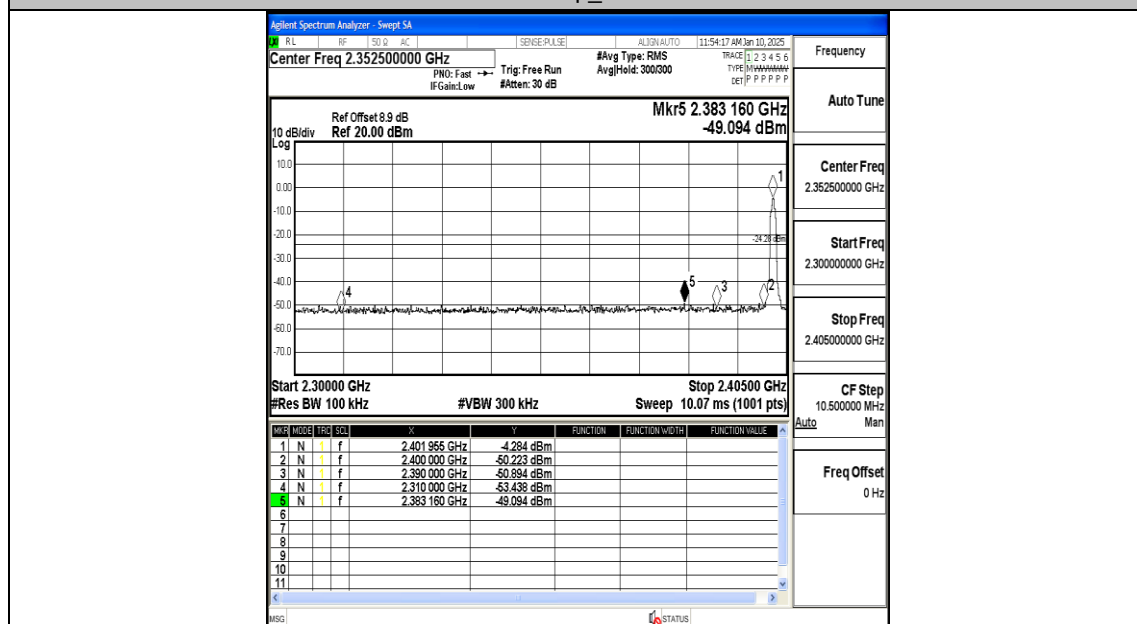




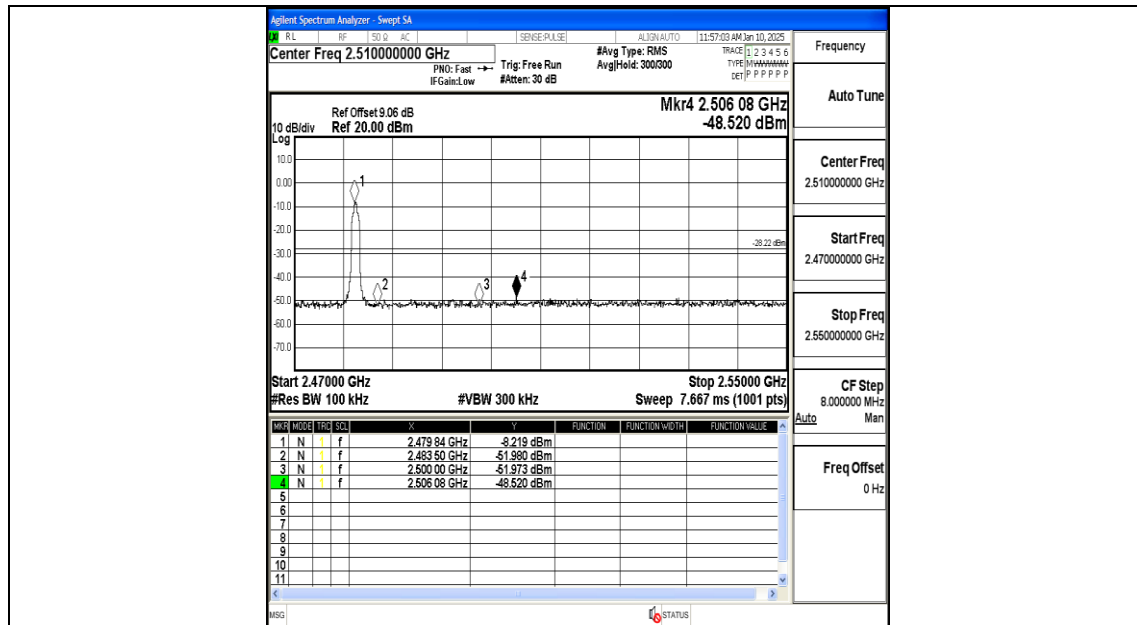
DH5-Ant1-Hop_2402-PASS



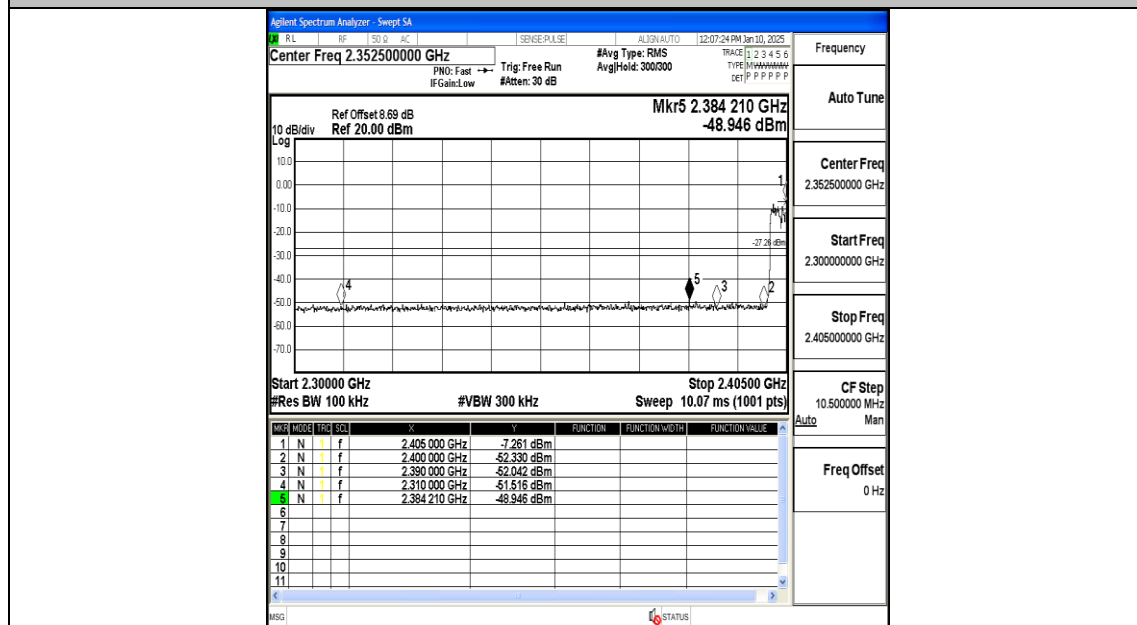
DH5-Ant1-Hop_2480-PASS



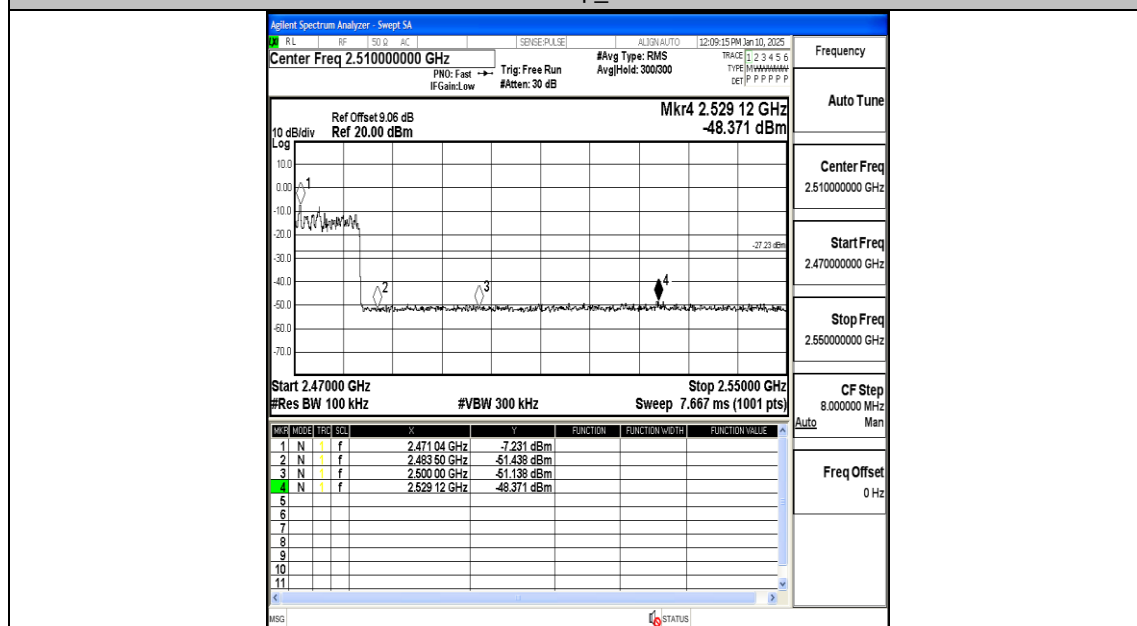
2DH5-Ant1-2402-PASS



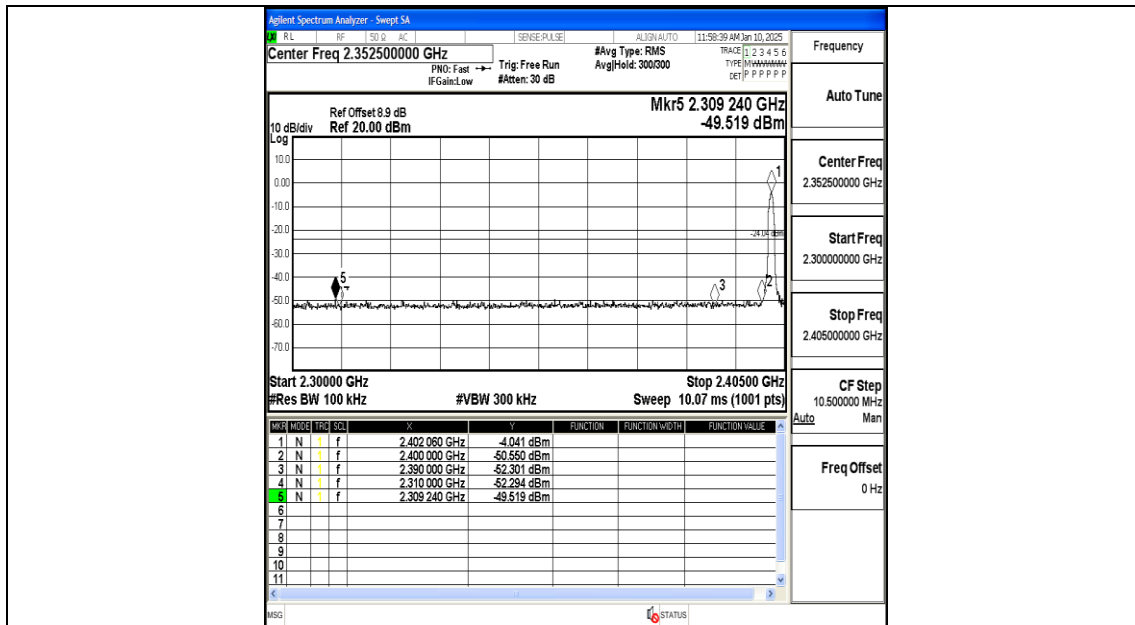
2DH5-Ant1-2480-PASS



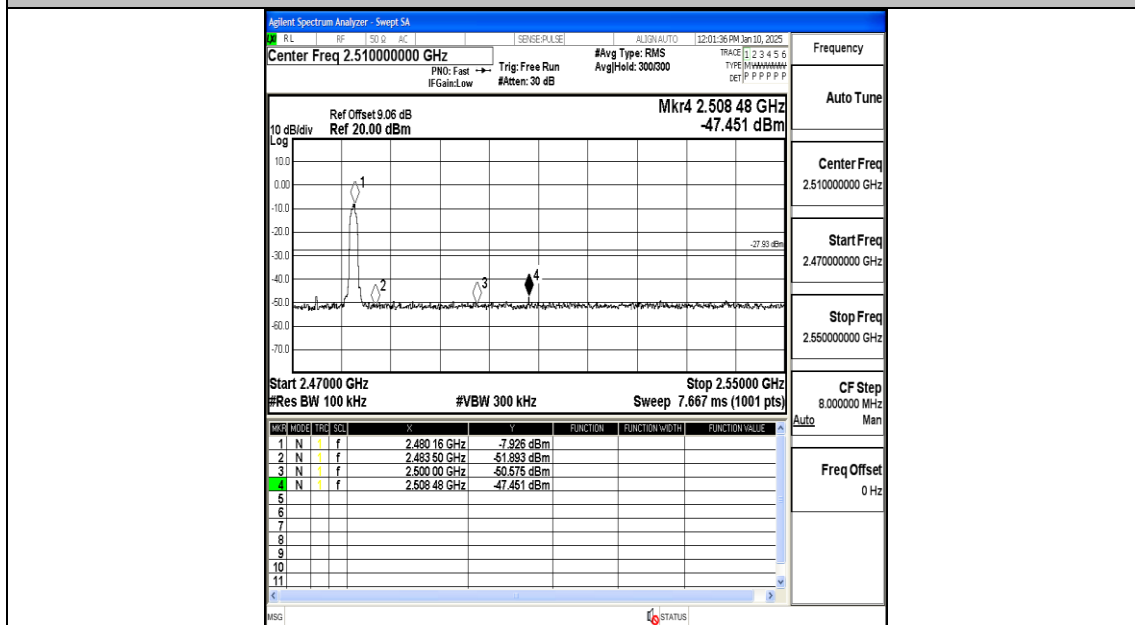
2DH5-Ant1-Hop_2402-PASS



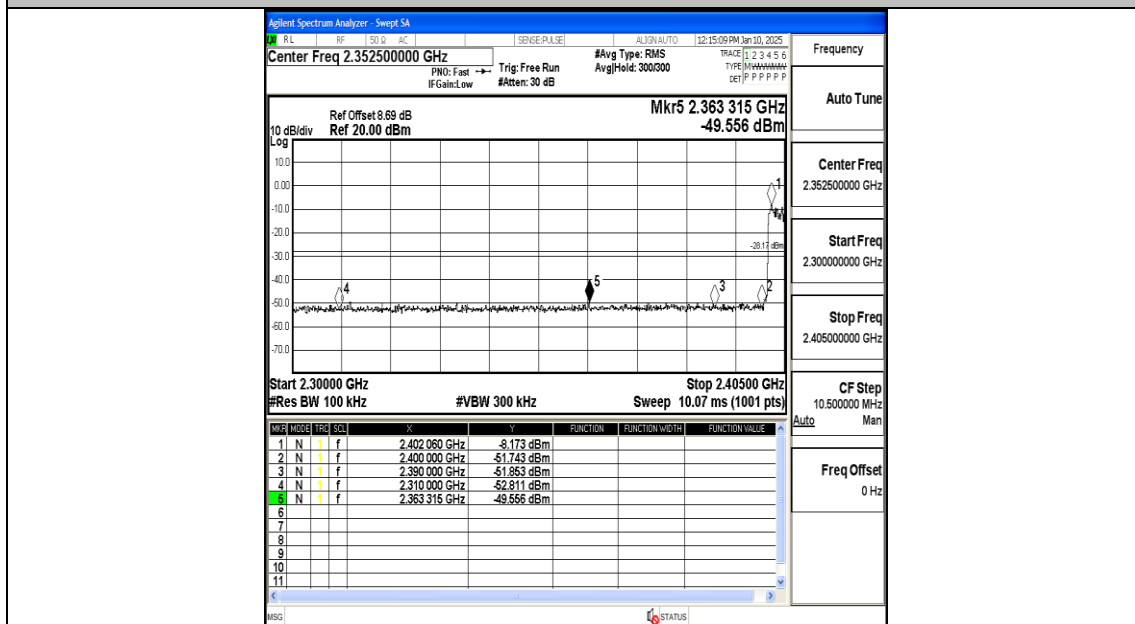
2DH5-Ant1-Hop_2480-PASS



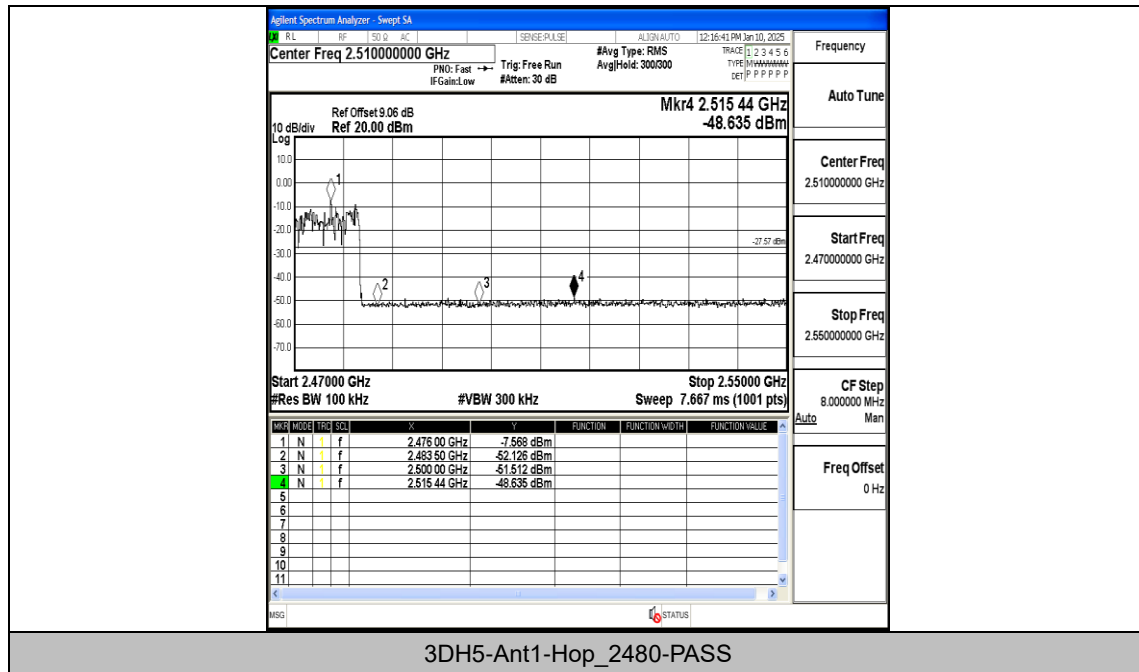
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS

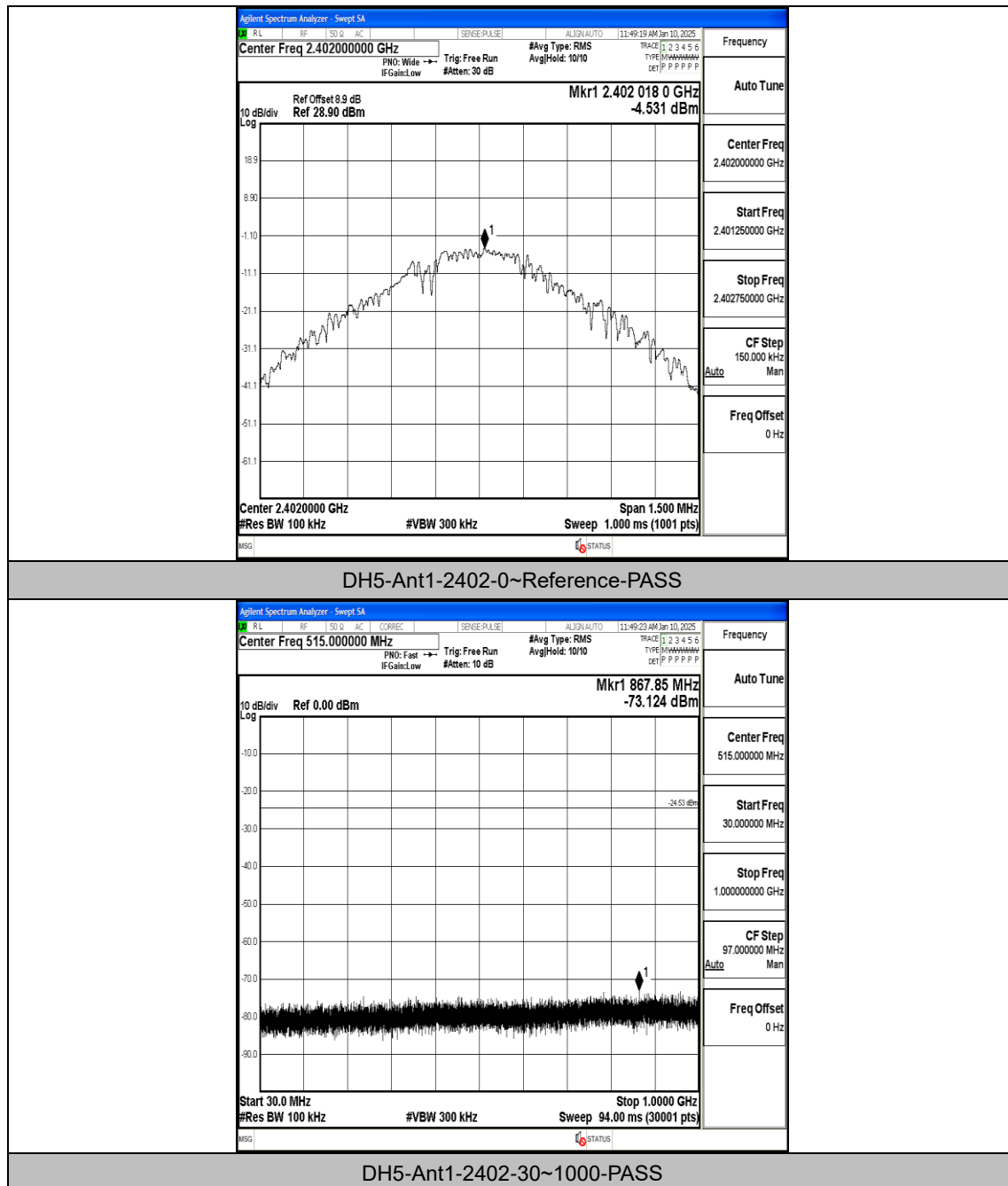


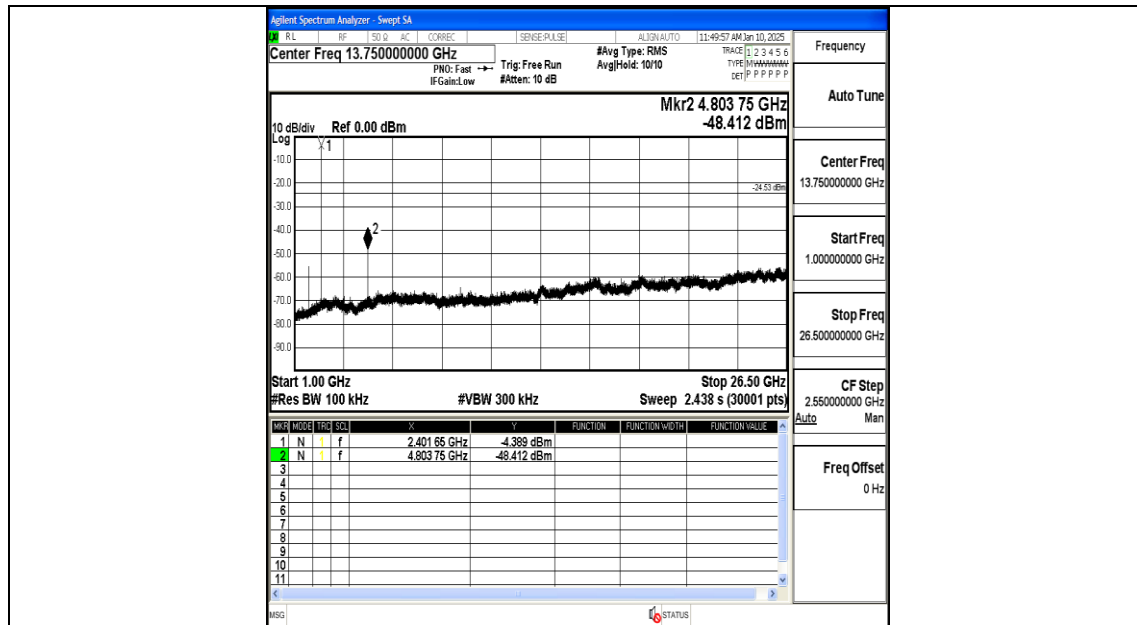
Appendix H: Conducted Spurious Emission

Test Result

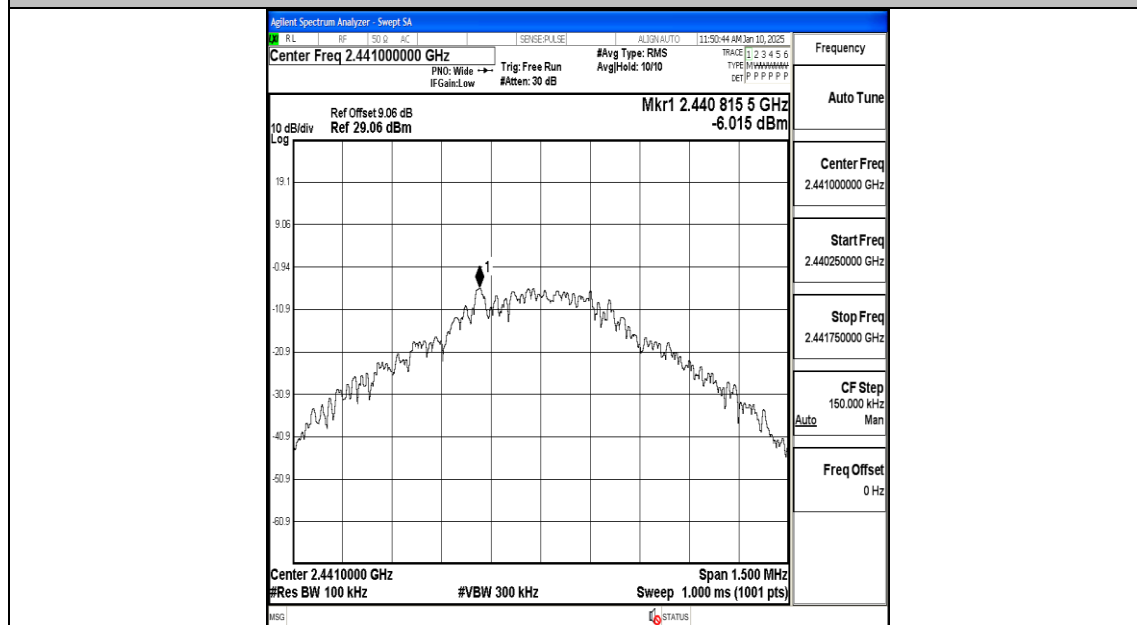
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-4.53	-4.53	---	PASS
DH5	Ant1	2402	30~1000	-4.53	-73.12	≤-24.53	PASS
DH5	Ant1	2402	1000~26500	-4.53	-48.41	≤-24.53	PASS
DH5	Ant1	2441	0~Reference	-6.02	-6.02	---	PASS
DH5	Ant1	2441	30~1000	-6.02	-72.93	≤-26.02	PASS
DH5	Ant1	2441	1000~26500	-6.02	-47.67	≤-26.02	PASS
DH5	Ant1	2480	0~Reference	-8.33	-8.33	---	PASS
DH5	Ant1	2480	30~1000	-8.33	-73.33	≤-28.33	PASS
DH5	Ant1	2480	1000~26500	-8.33	-51	≤-28.33	PASS
2DH5	Ant1	2402	0~Reference	-8.18	-8.18	---	PASS
2DH5	Ant1	2402	30~1000	-8.18	-72.75	≤-28.18	PASS
2DH5	Ant1	2402	1000~26500	-8.18	-52.88	≤-28.18	PASS
2DH5	Ant1	2441	0~Reference	-5.96	-5.96	---	PASS
2DH5	Ant1	2441	30~1000	-5.96	-72.83	≤-25.96	PASS
2DH5	Ant1	2441	1000~26500	-5.96	-52.97	≤-25.96	PASS
2DH5	Ant1	2480	0~Reference	-7.98	-7.98	---	PASS
2DH5	Ant1	2480	30~1000	-7.98	-73.15	≤-27.98	PASS
2DH5	Ant1	2480	1000~26500	-7.98	-51.05	≤-27.98	PASS
3DH5	Ant1	2402	0~Reference	-7.25	-7.25	---	PASS
3DH5	Ant1	2402	30~1000	-7.25	-72.57	≤-27.25	PASS
3DH5	Ant1	2402	1000~26500	-7.25	-51.91	≤-27.25	PASS
3DH5	Ant1	2441	0~Reference	-6.56	-6.56	---	PASS
3DH5	Ant1	2441	30~1000	-6.56	-73.01	≤-26.56	PASS
3DH5	Ant1	2441	1000~26500	-6.56	-52.89	≤-26.56	PASS
3DH5	Ant1	2480	0~Reference	-8.57	-8.57	---	PASS
3DH5	Ant1	2480	30~1000	-8.57	-72.81	≤-28.57	PASS
3DH5	Ant1	2480	1000~26500	-8.57	-54.17	≤-28.57	PASS

Test Graphs

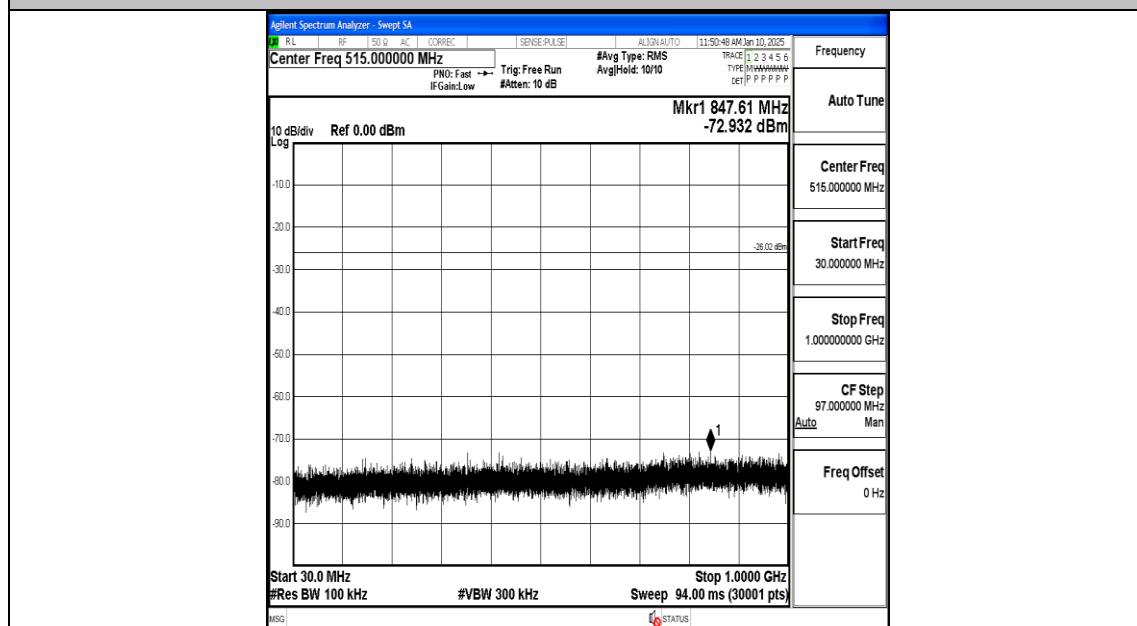




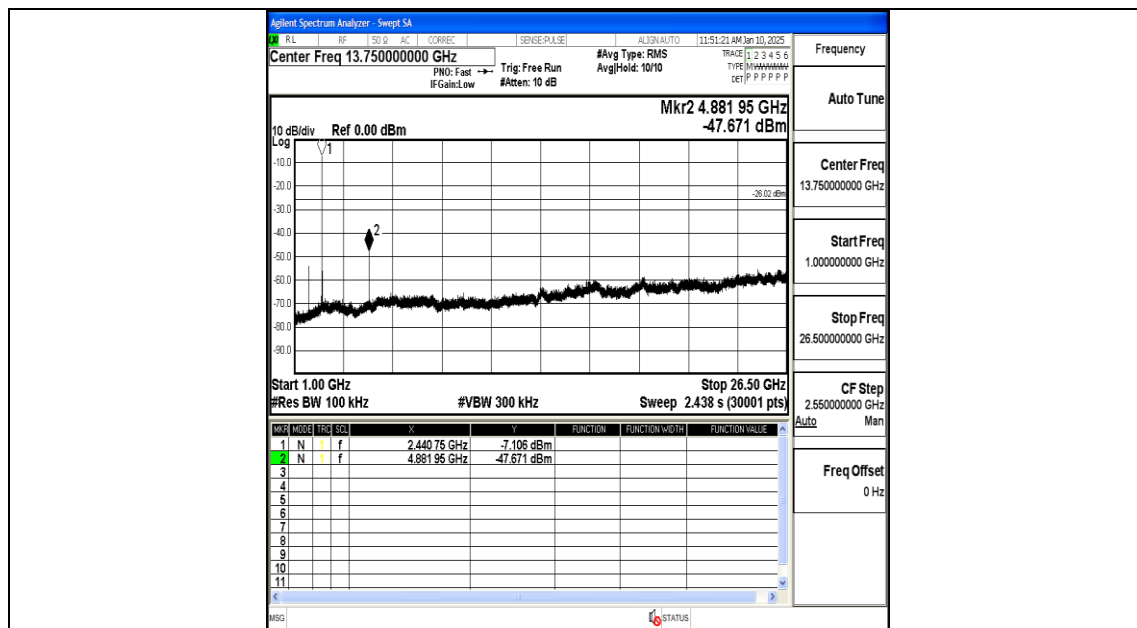
DH5-Ant1-2402-1000~26500-PASS



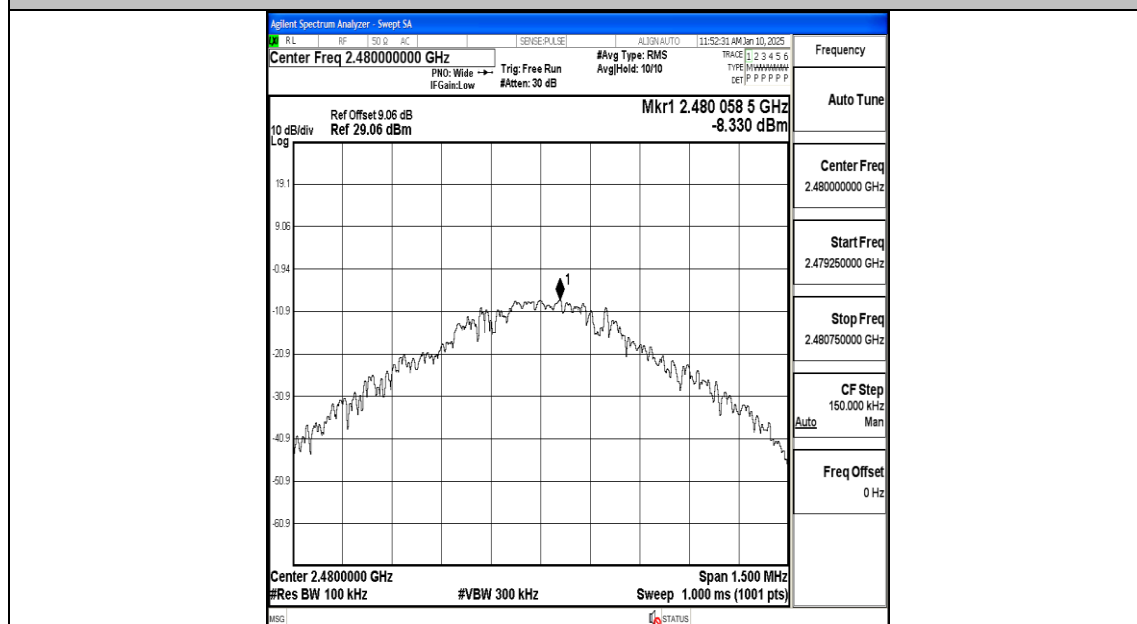
DH5-Ant1-2441-0~Reference-PASS



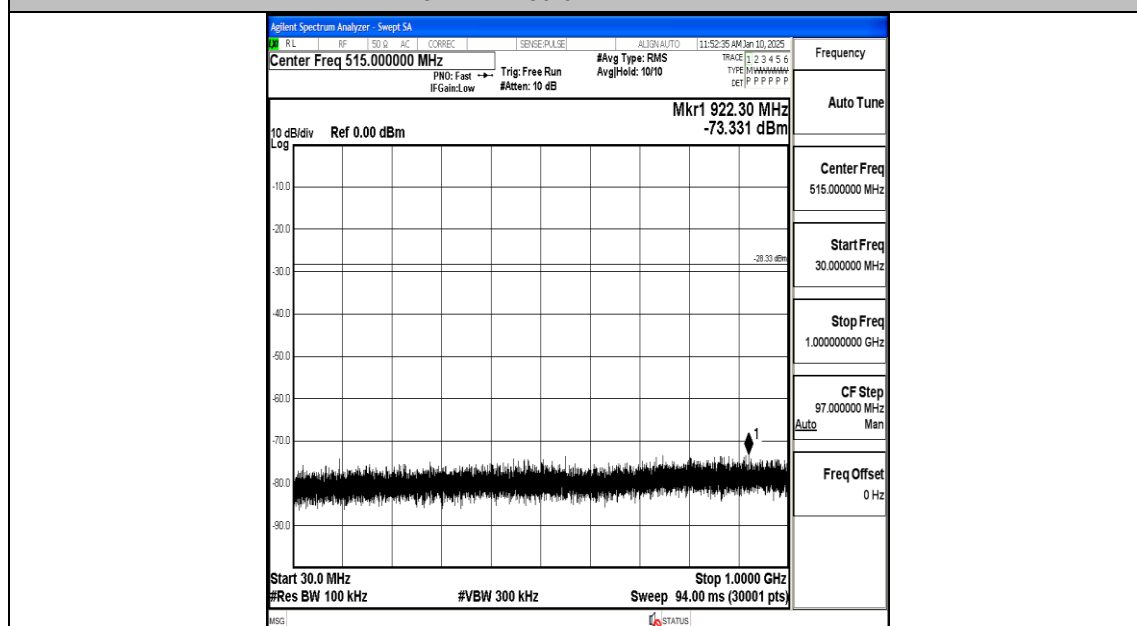
DH5-Ant1-2441-30~1000-PASS



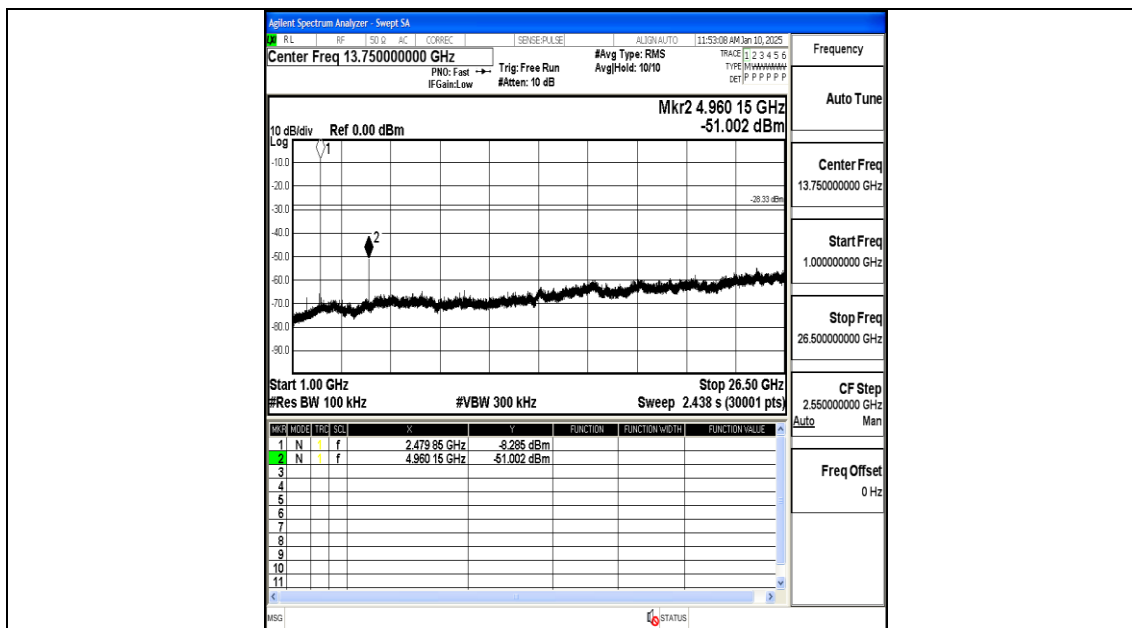
DH5-Ant1-2441-1000~26500-PASS



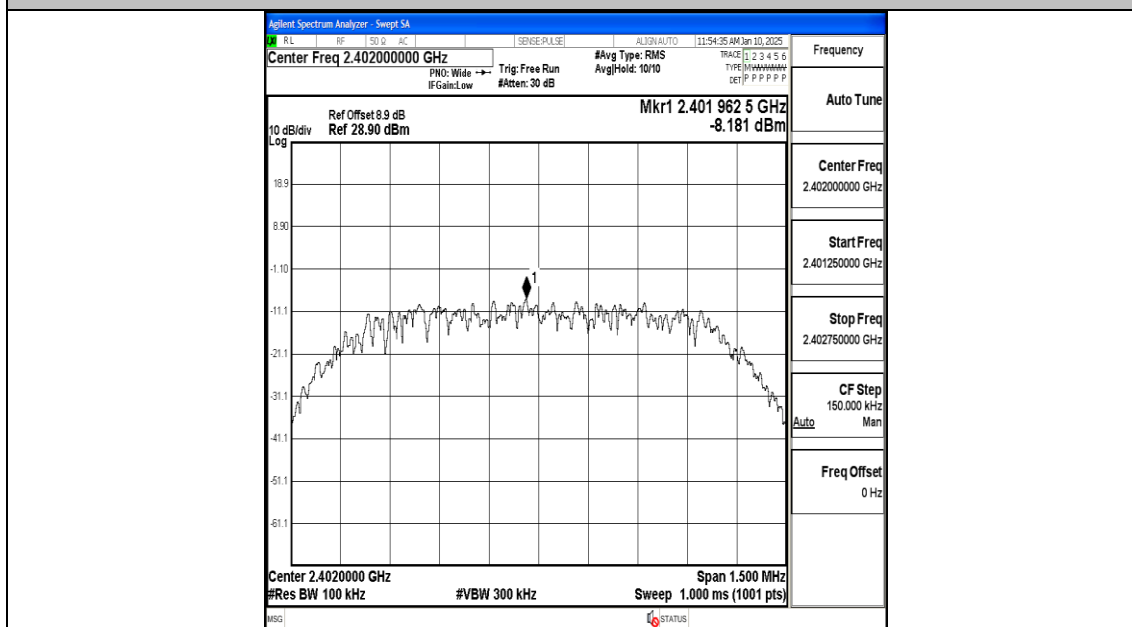
DH5-Ant1-2480-0~Reference-PASS



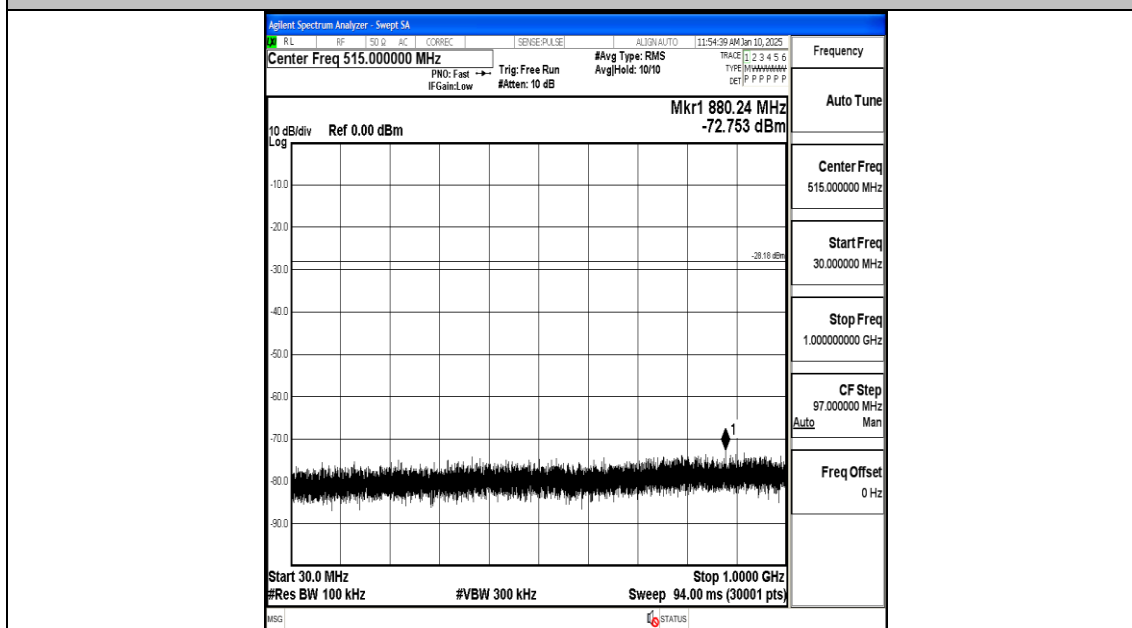
DH5-Ant1-2480-30~1000-PASS



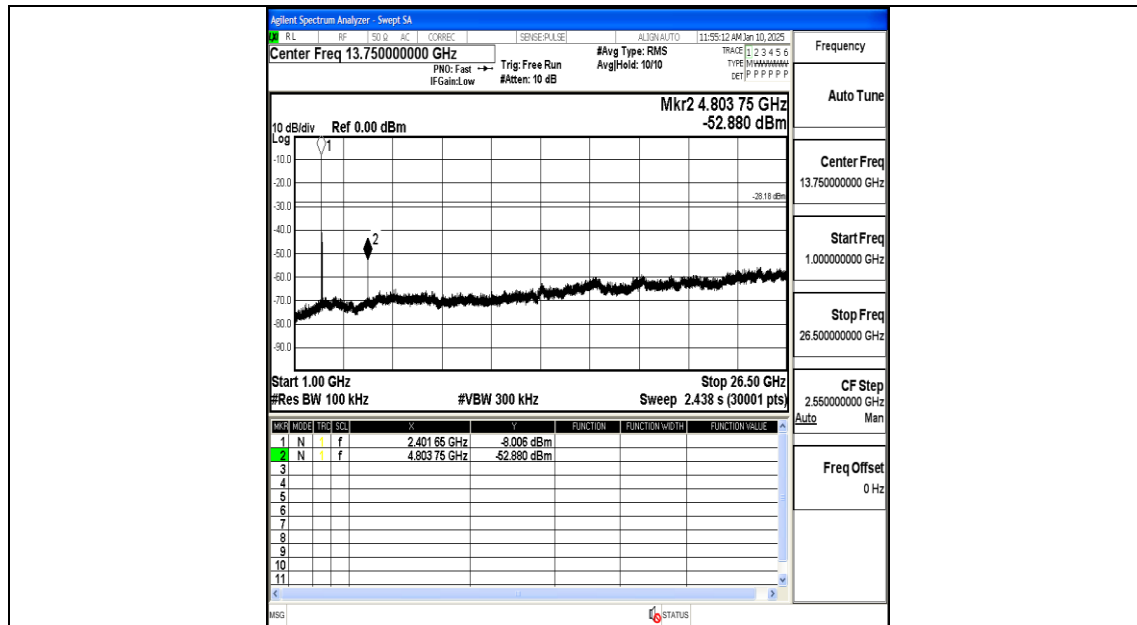
DH5-Ant1-2480-1000~26500-PASS



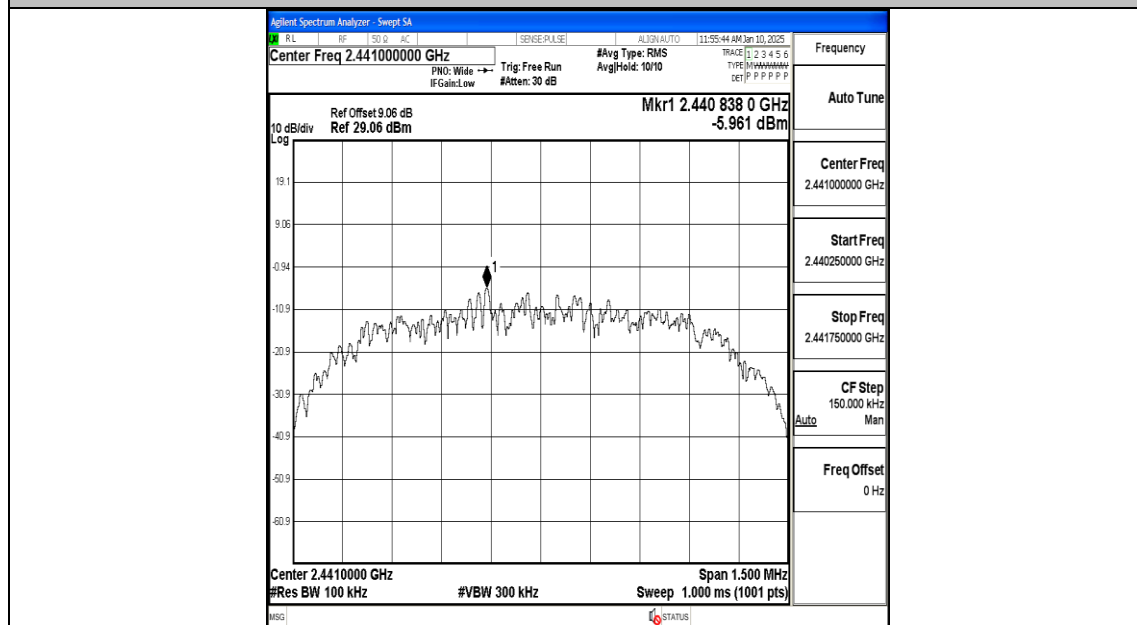
2DH5-Ant1-2402-0~Reference-PASS



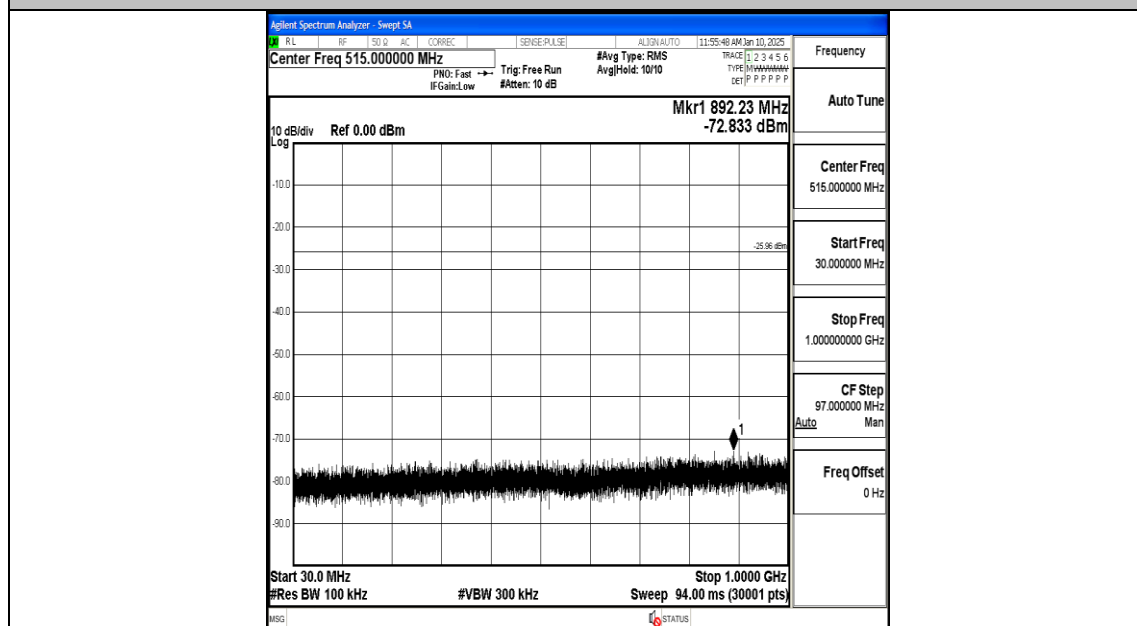
2DH5-Ant1-2402-30~1000-PASS



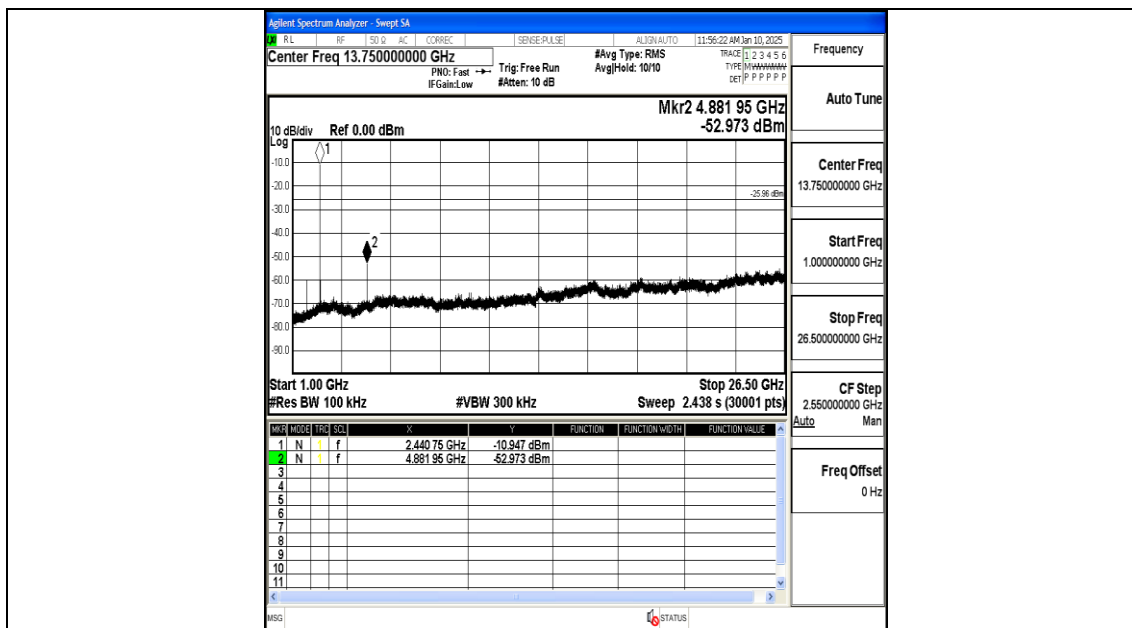
2DH5-Ant1-2402-1000~26500-PASS



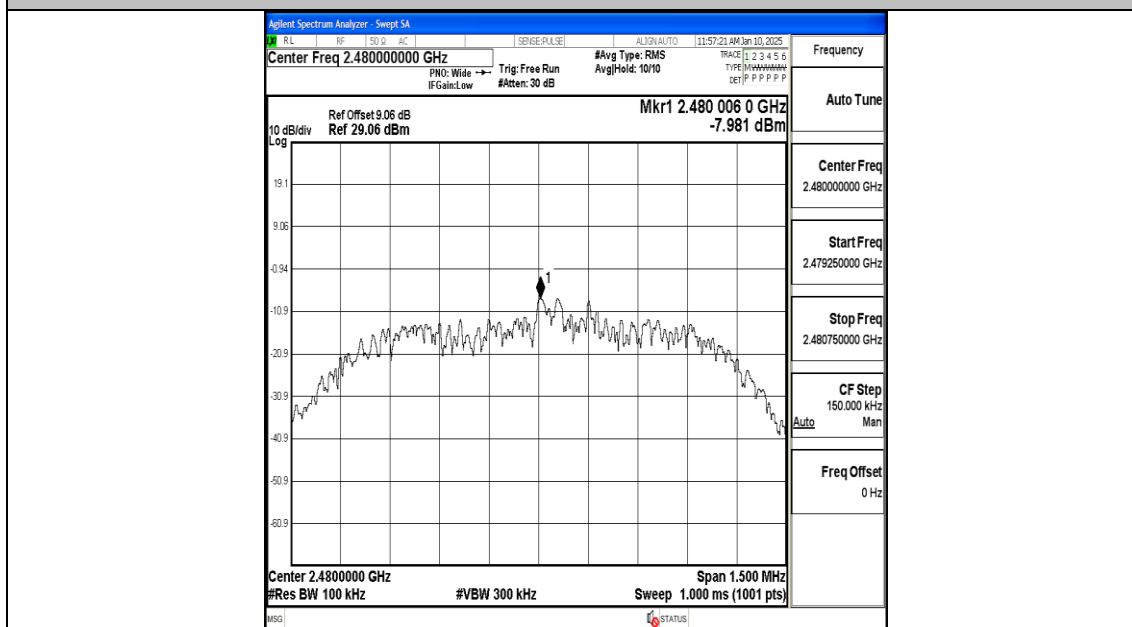
2DH5-Ant1-2441-0~Reference-PASS



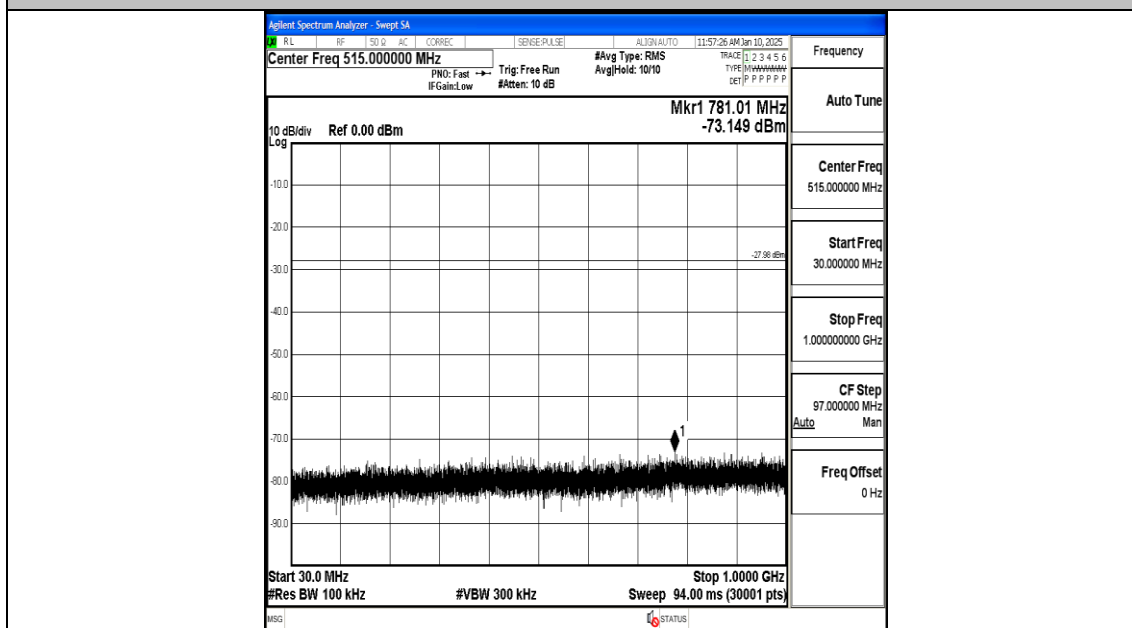
2DH5-Ant1-2441-30~1000-PASS



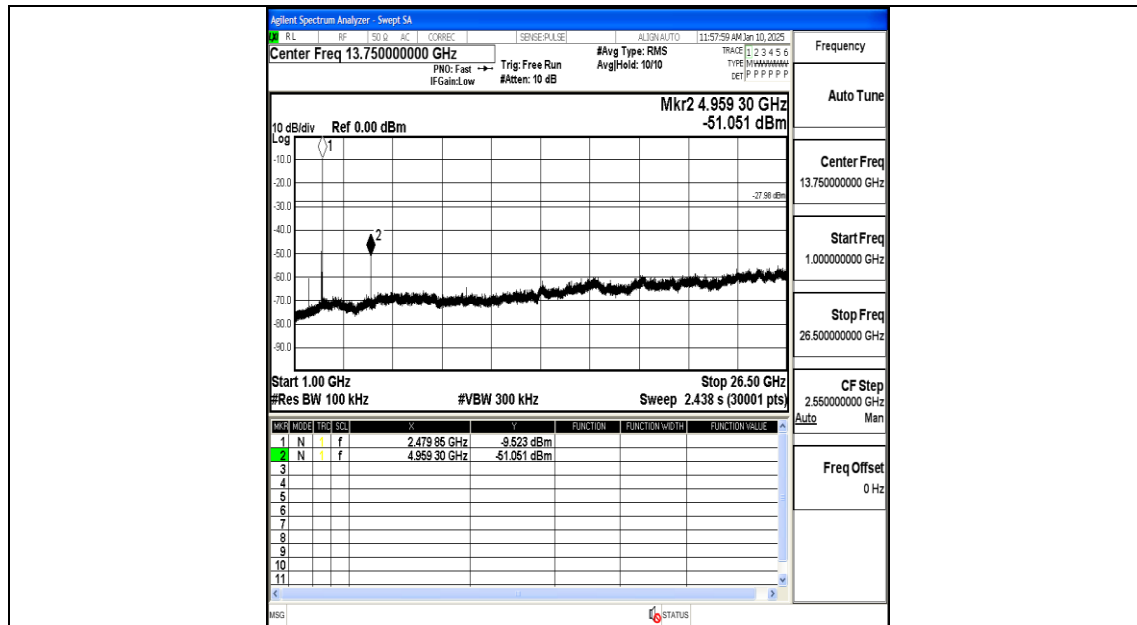
2DH5-Ant1-2441-1000~26500-PASS



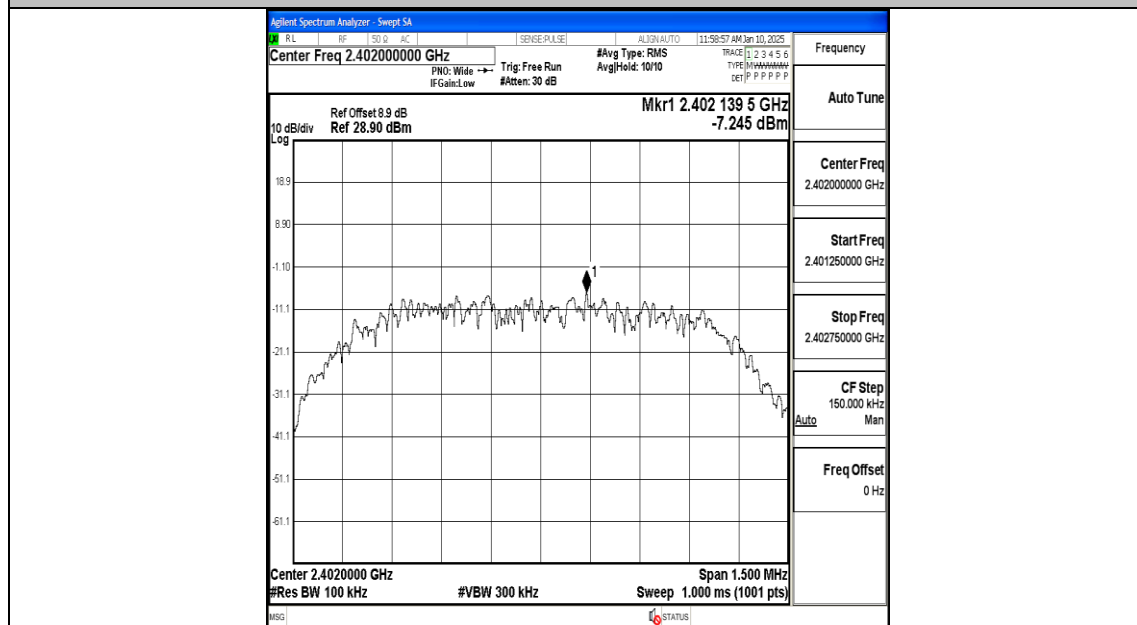
2DH5-Ant1-2480-0~Reference-PASS



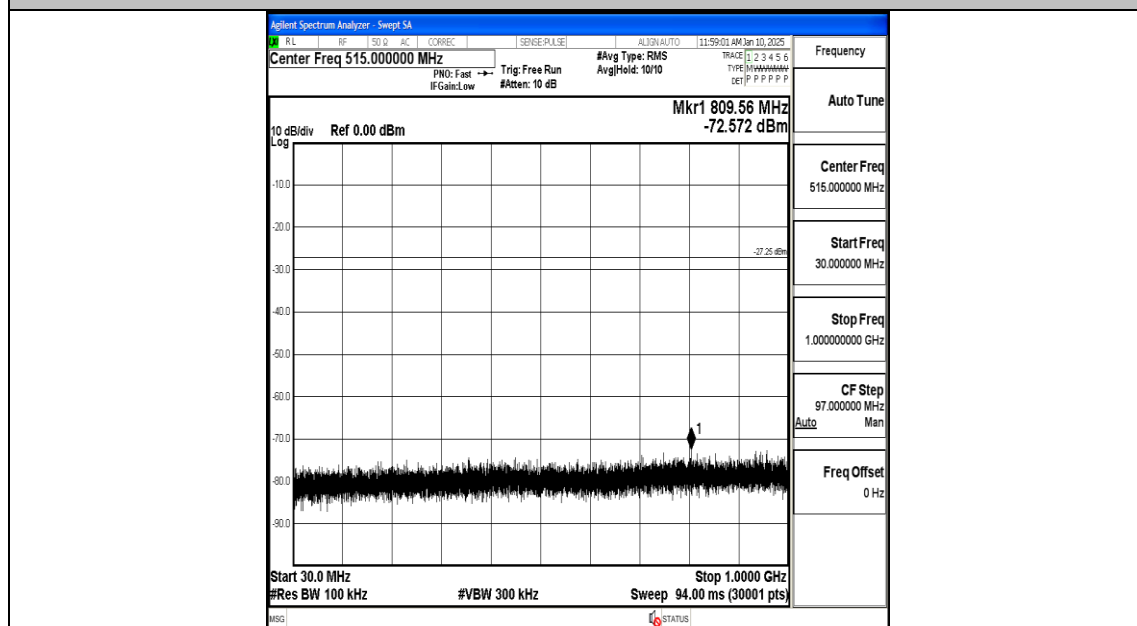
2DH5-Ant1-2480-30~1000-PASS



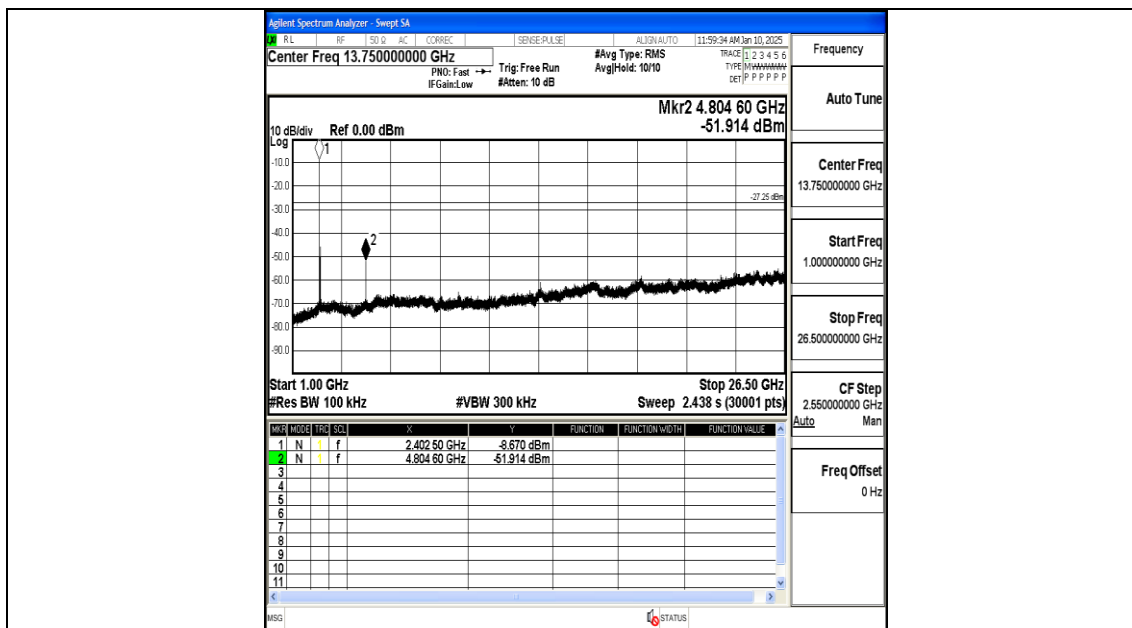
2DH5-Ant1-2480-1000~26500-PASS



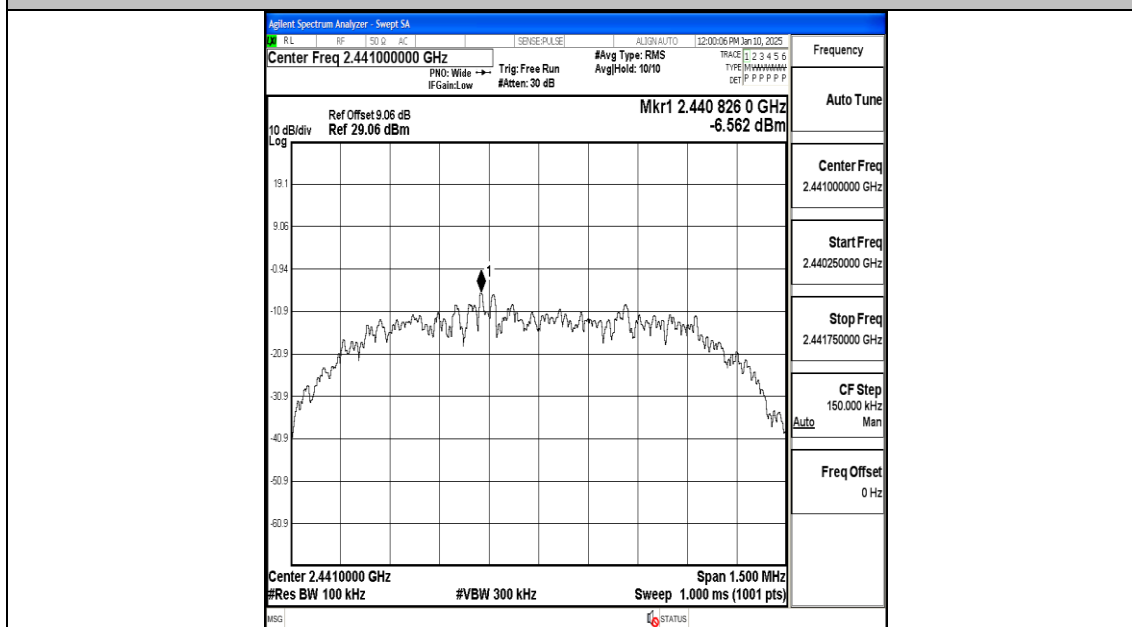
3DH5-Ant1-2402-0~Reference-PASS



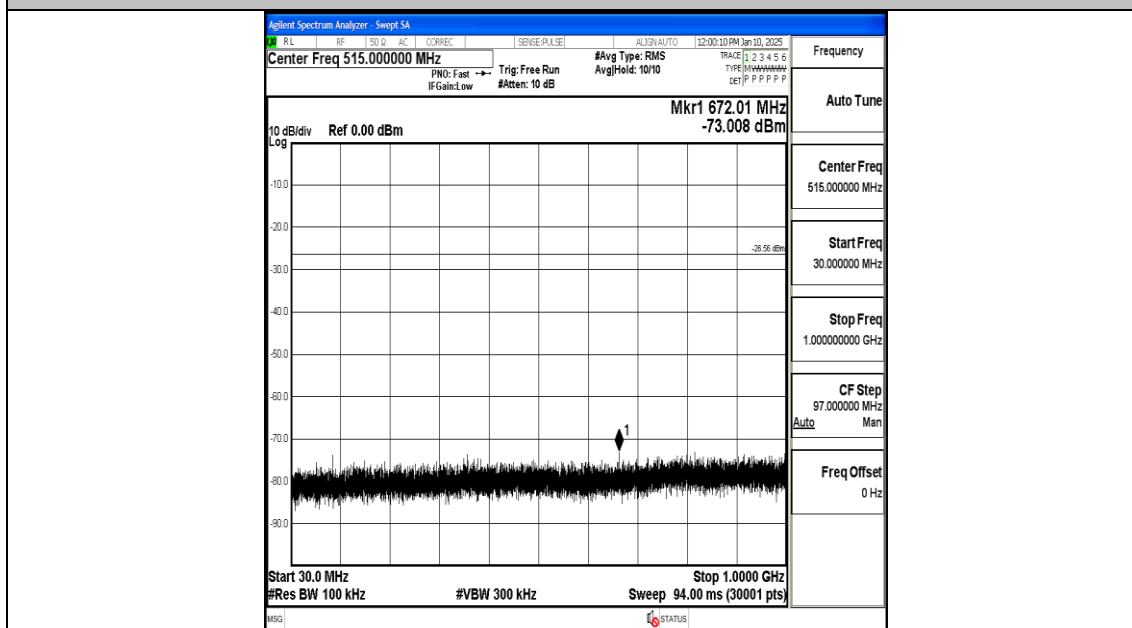
3DH5-Ant1-2402-30~1000-PASS



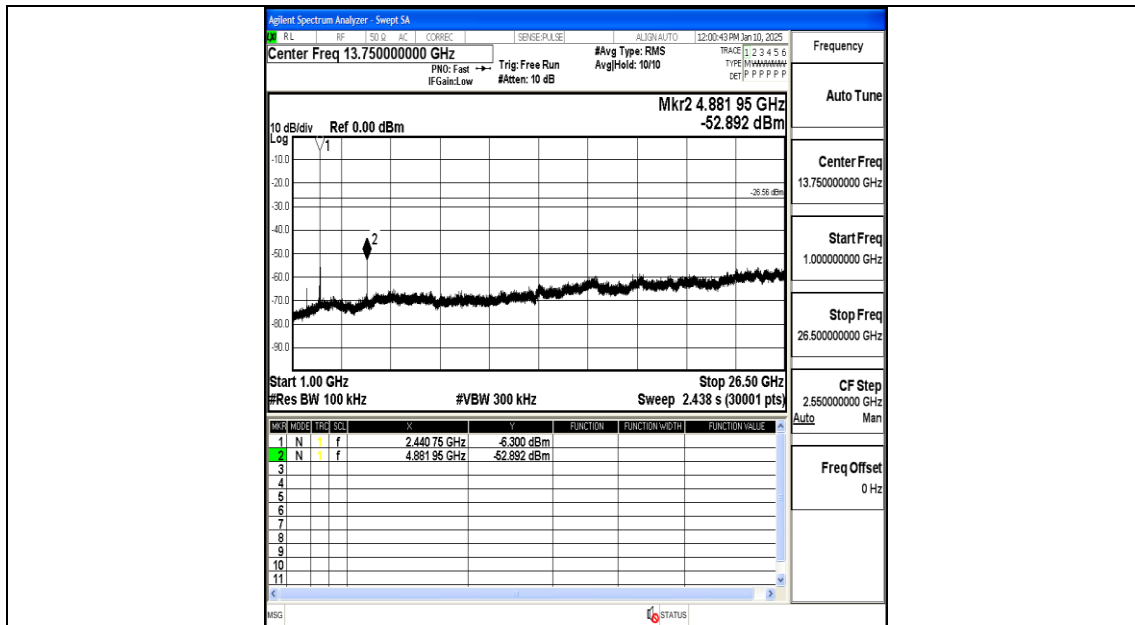
3DH5-Ant1-2402-1000~26500-PASS



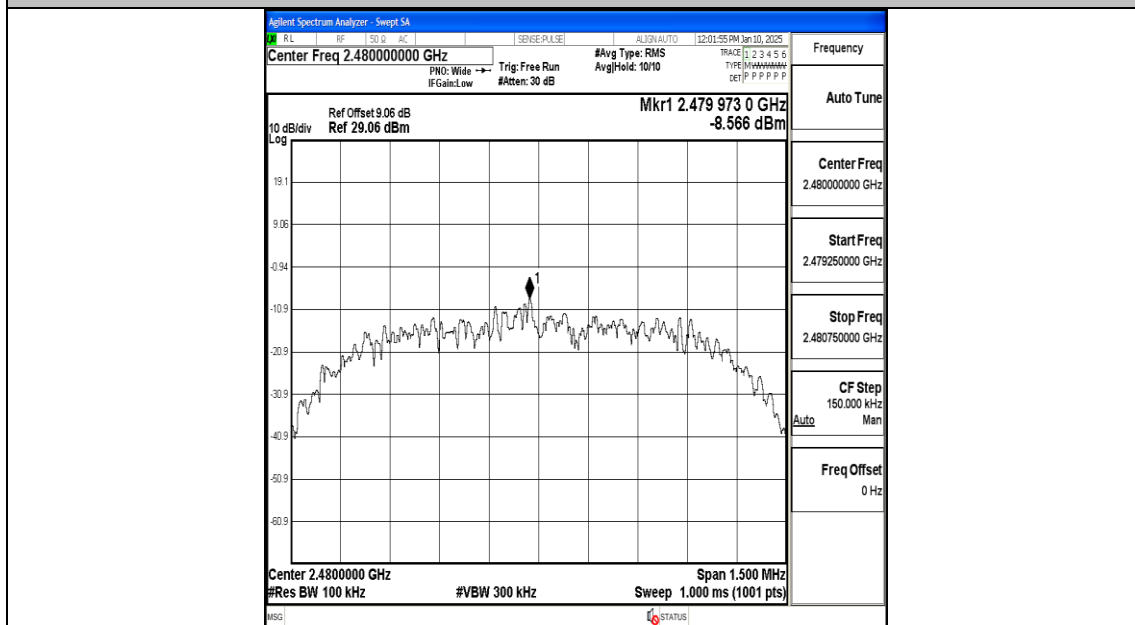
3DH5-Ant1-2441-0~Reference-PASS



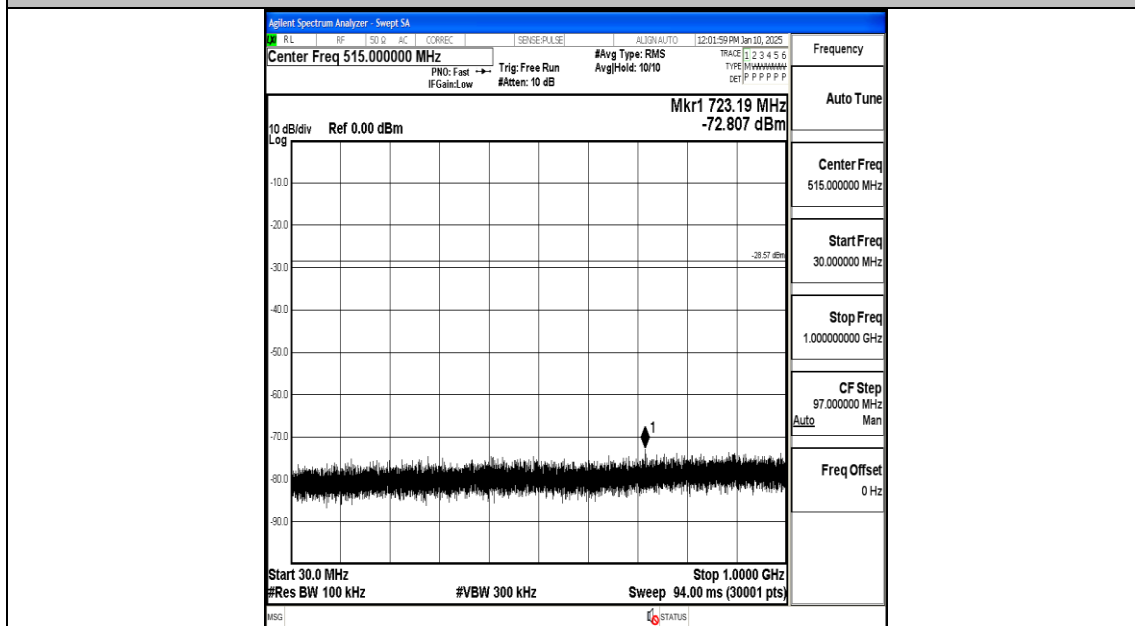
3DH5-Ant1-2441-30~1000-PASS



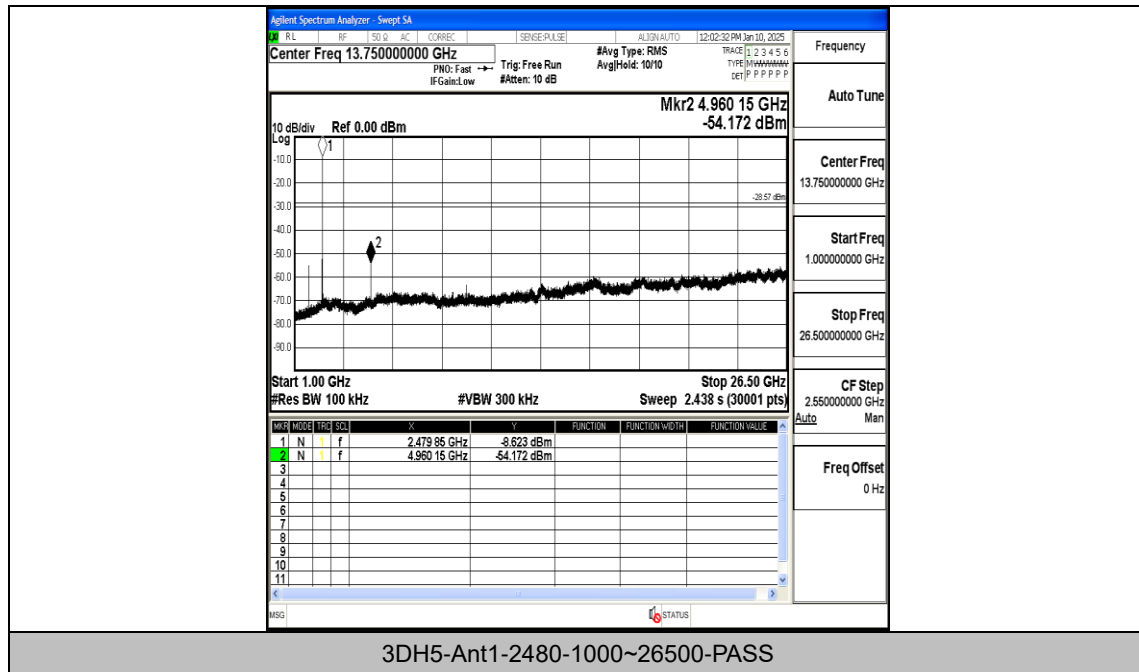
3DH5-Ant1-2441-1000~26500-PASS



3DH5-Ant1-2480-0~Reference-PASS



3DH5-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	2.91	3.75	77.60	1.10
DH5	Ant1	2441	2.91	3.76	77.39	1.11
DH5	Ant1	2480	2.91	3.75	77.60	1.10
2DH5	Ant1	2402	2.91	3.75	77.60	1.10
2DH5	Ant1	2441	2.91	3.75	77.60	1.10
2DH5	Ant1	2480	2.91	3.75	77.60	1.10
3DH5	Ant1	2402	2.91	3.75	77.60	1.10
3DH5	Ant1	2441	2.92	3.75	77.87	1.09
3DH5	Ant1	2480	2.92	3.75	77.87	1.09

Test Graphs

