

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

Product Name: Smart Watch

Trade Mark: /

Test Model: W09

FCC ID: 2AQYK-W09

Environmental Conditions

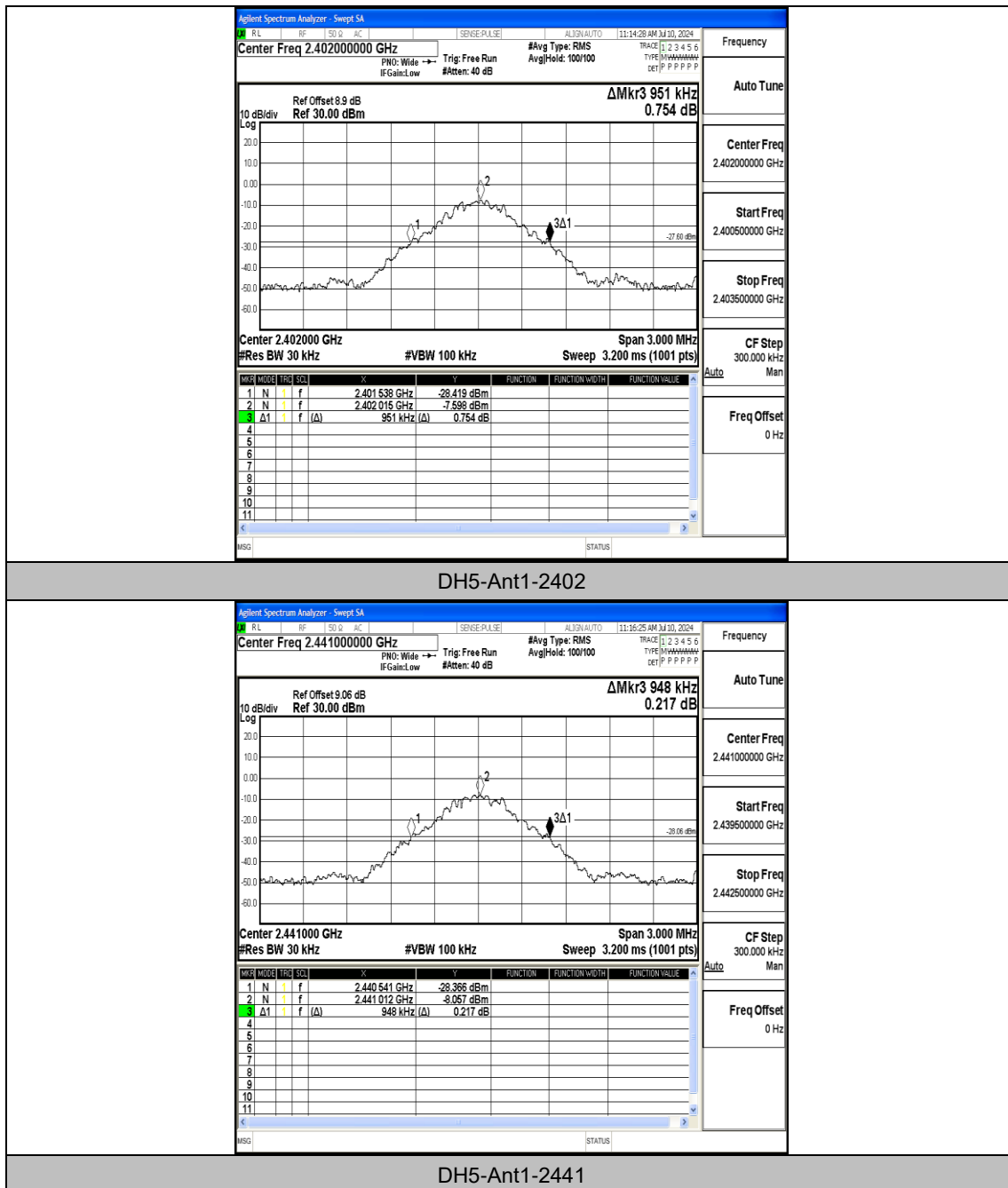
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

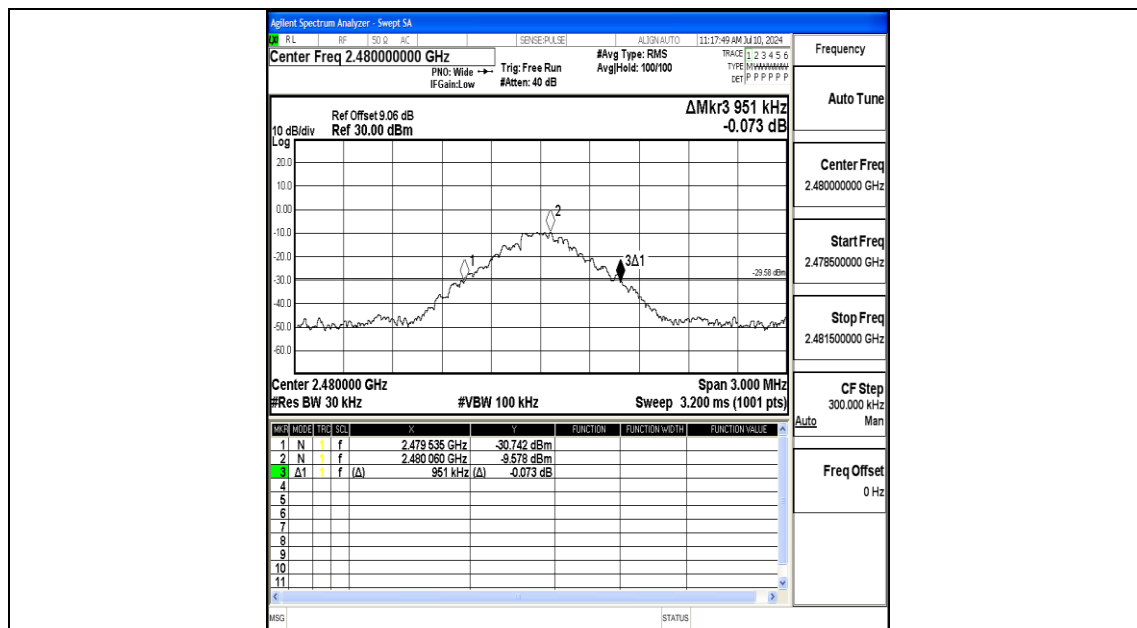
Appendix A: 20dB Emission Bandwidth

Test Result

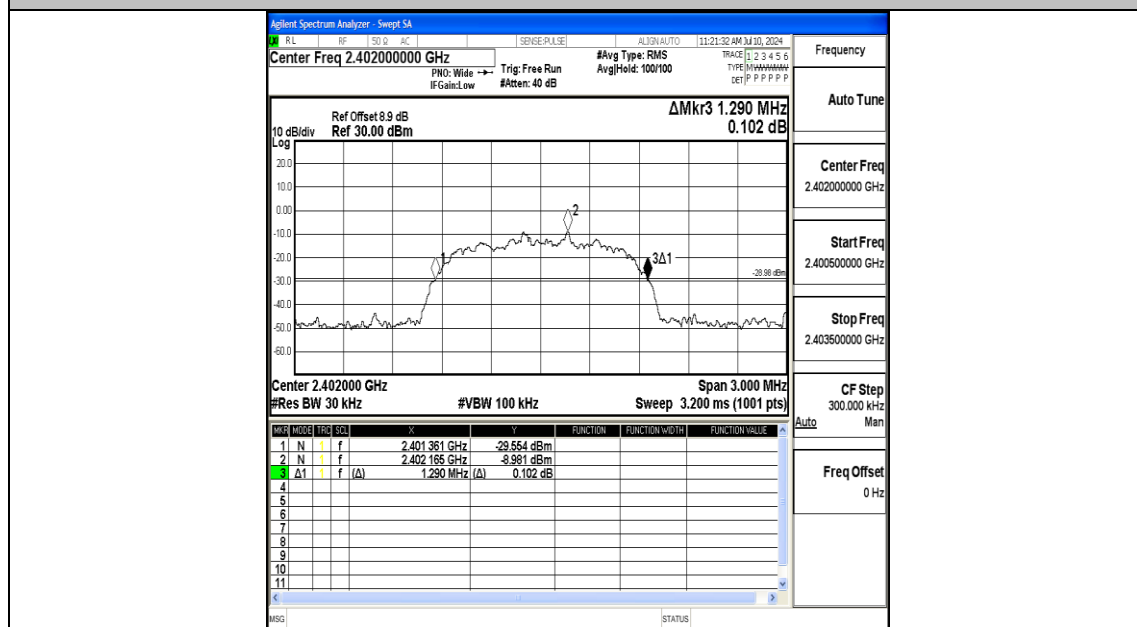
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.951	2401.538	2402.489	---	---
DH5	Ant1	2441	0.948	2440.541	2441.489	---	---
DH5	Ant1	2480	0.951	2479.535	2480.486	---	---
2DH5	Ant1	2402	1.290	2401.361	2402.651	---	---
2DH5	Ant1	2441	1.293	2440.364	2441.657	---	---
2DH5	Ant1	2480	1.293	2479.364	2480.657	---	---
3DH5	Ant1	2402	1.308	2401.346	2402.654	---	---
3DH5	Ant1	2441	1.305	2440.349	2441.654	---	---
3DH5	Ant1	2480	1.308	2479.355	2480.663	---	---

Test Graphs

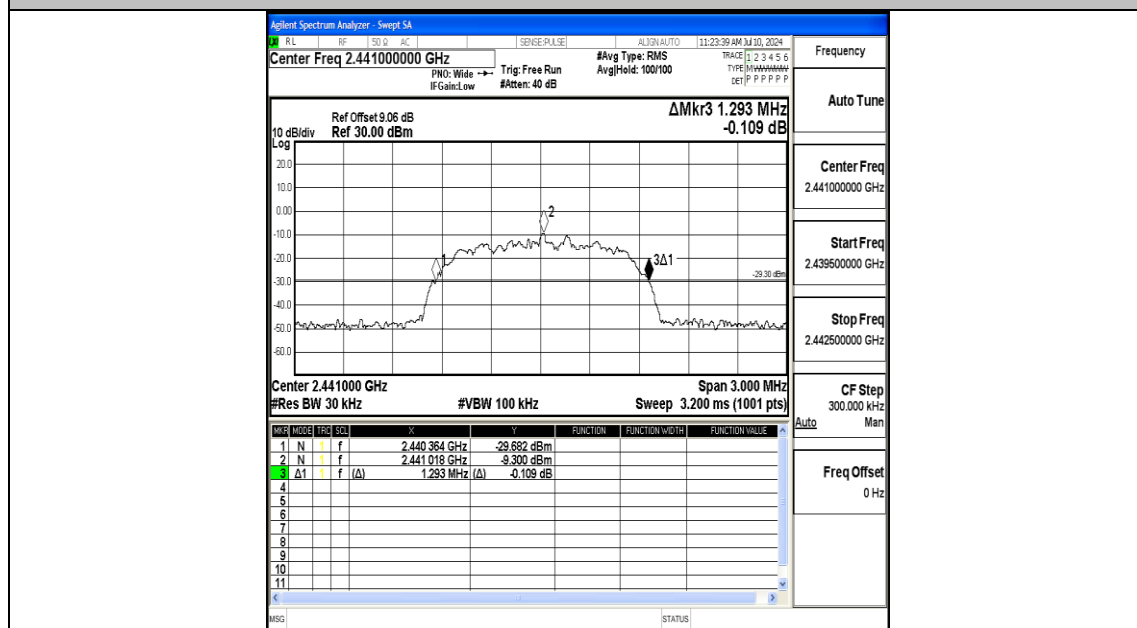




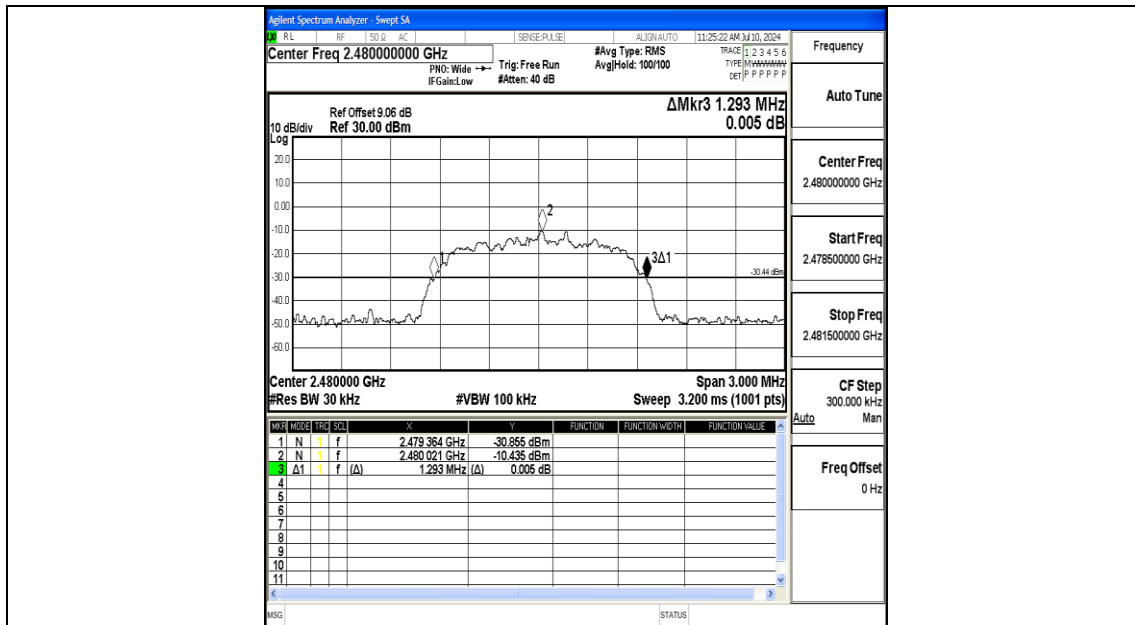
DH5-Ant1-2480



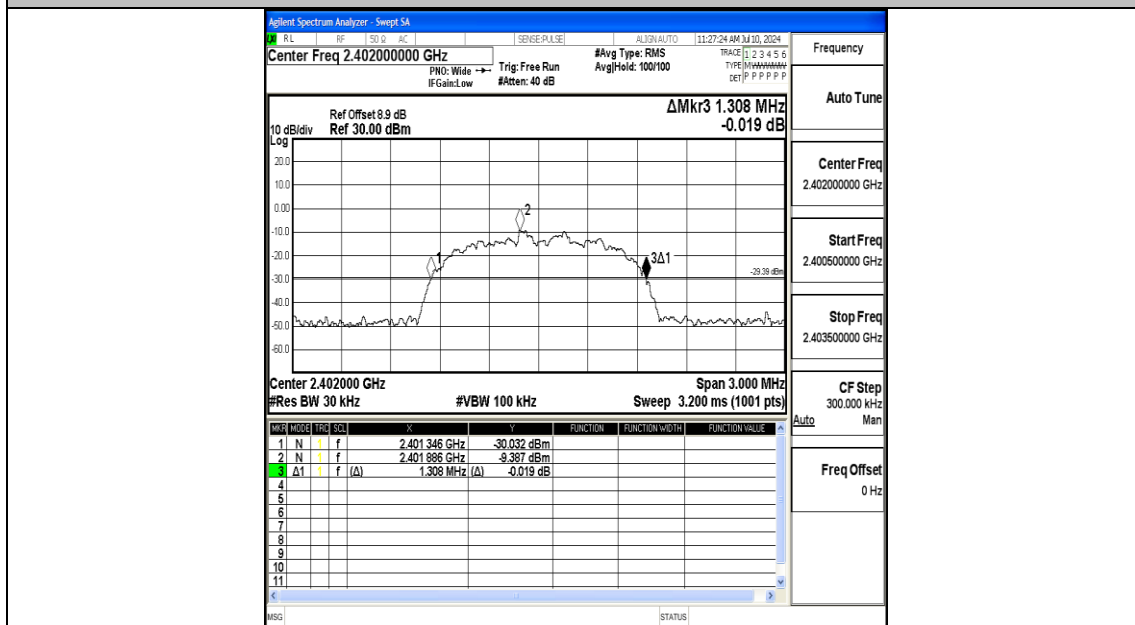
2DH5-Ant1-2402



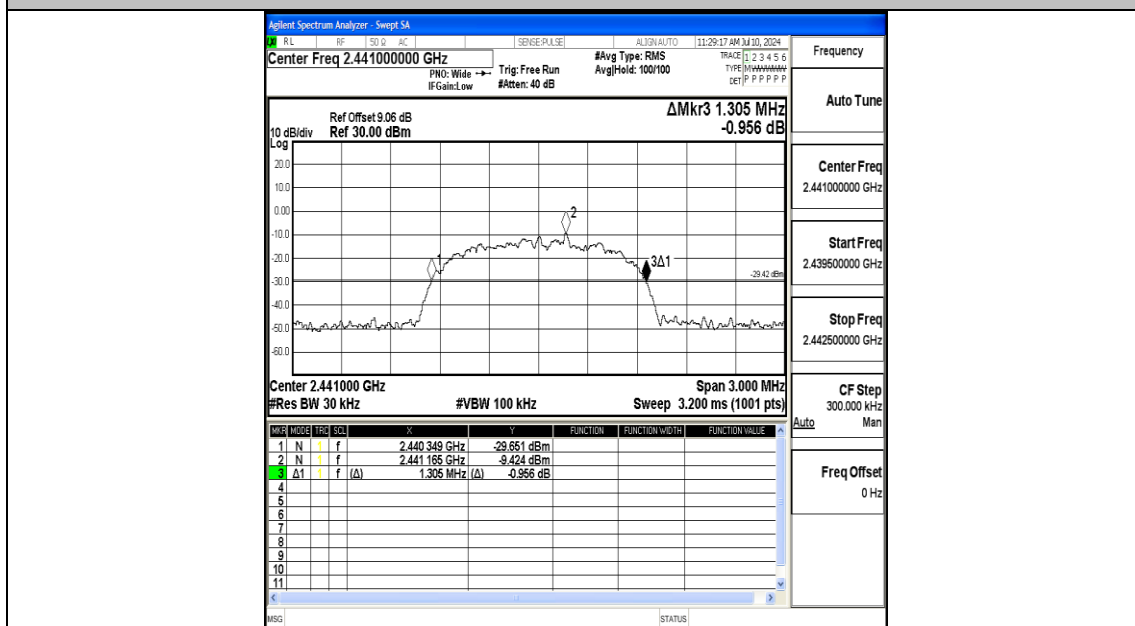
2DH5-Ant1-2441



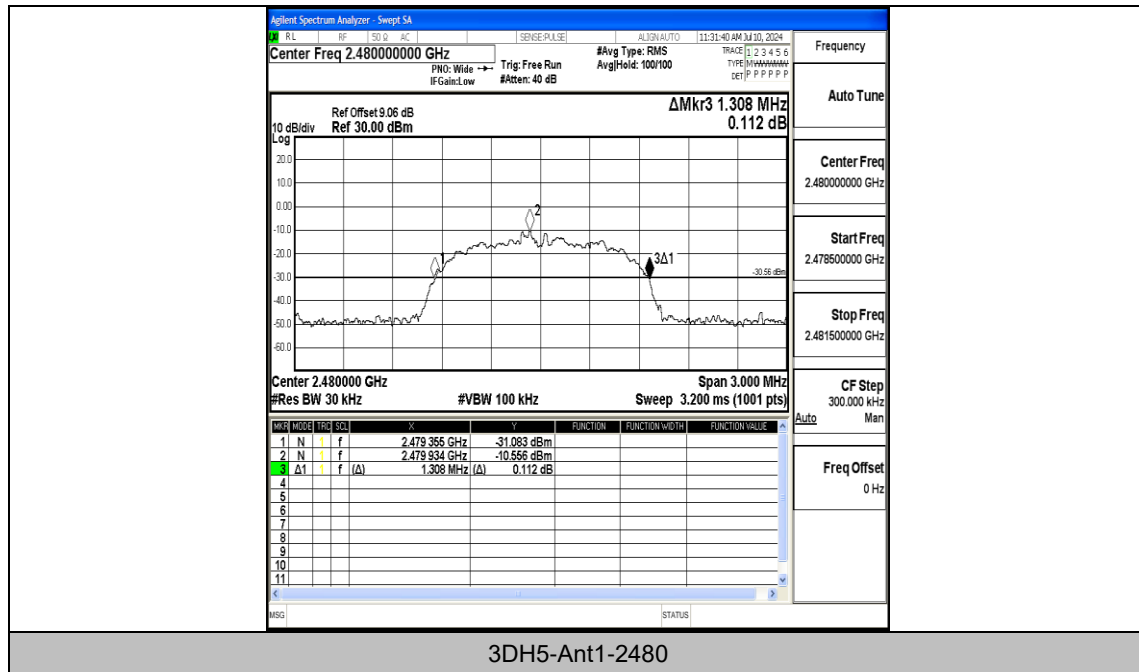
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441

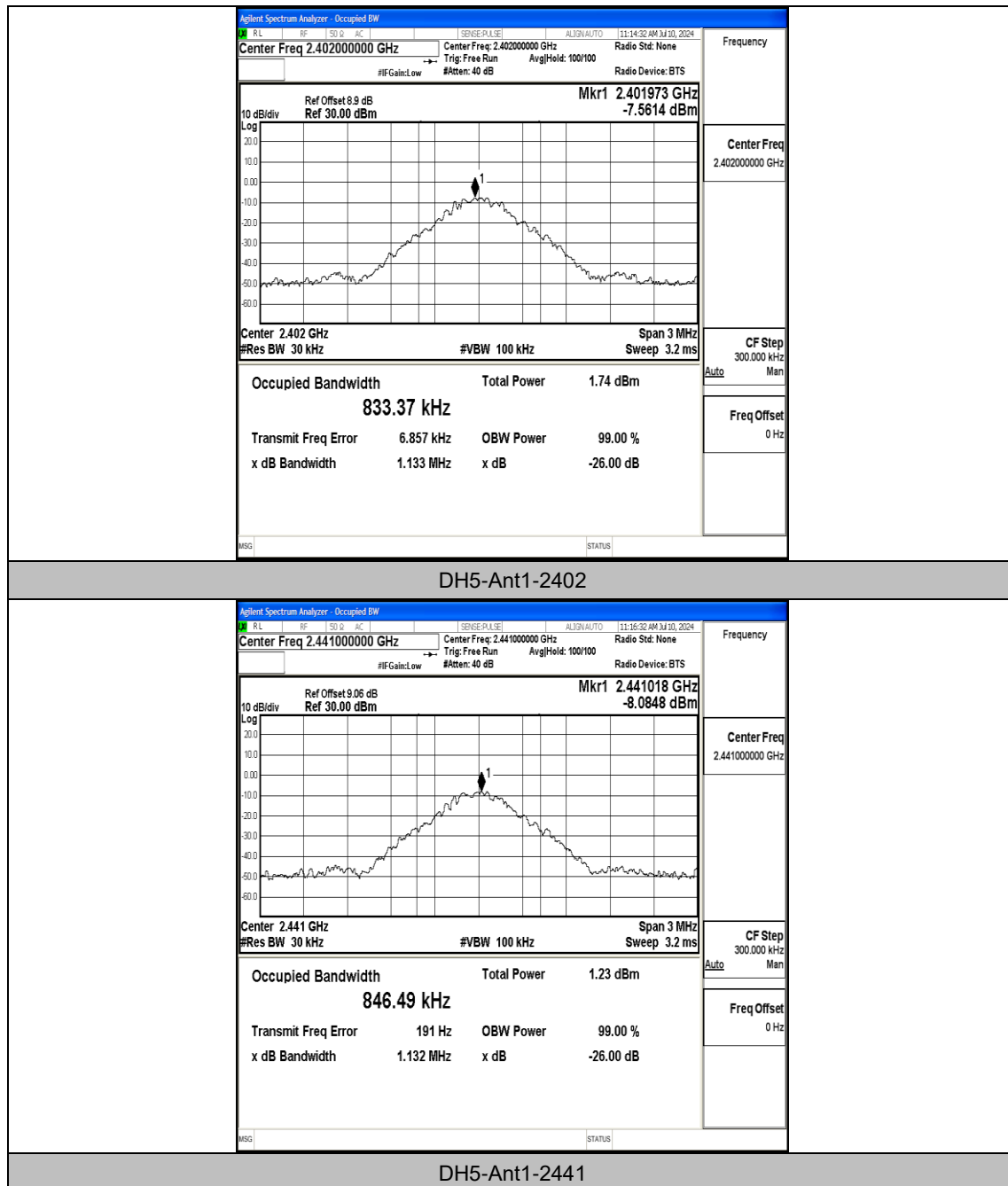


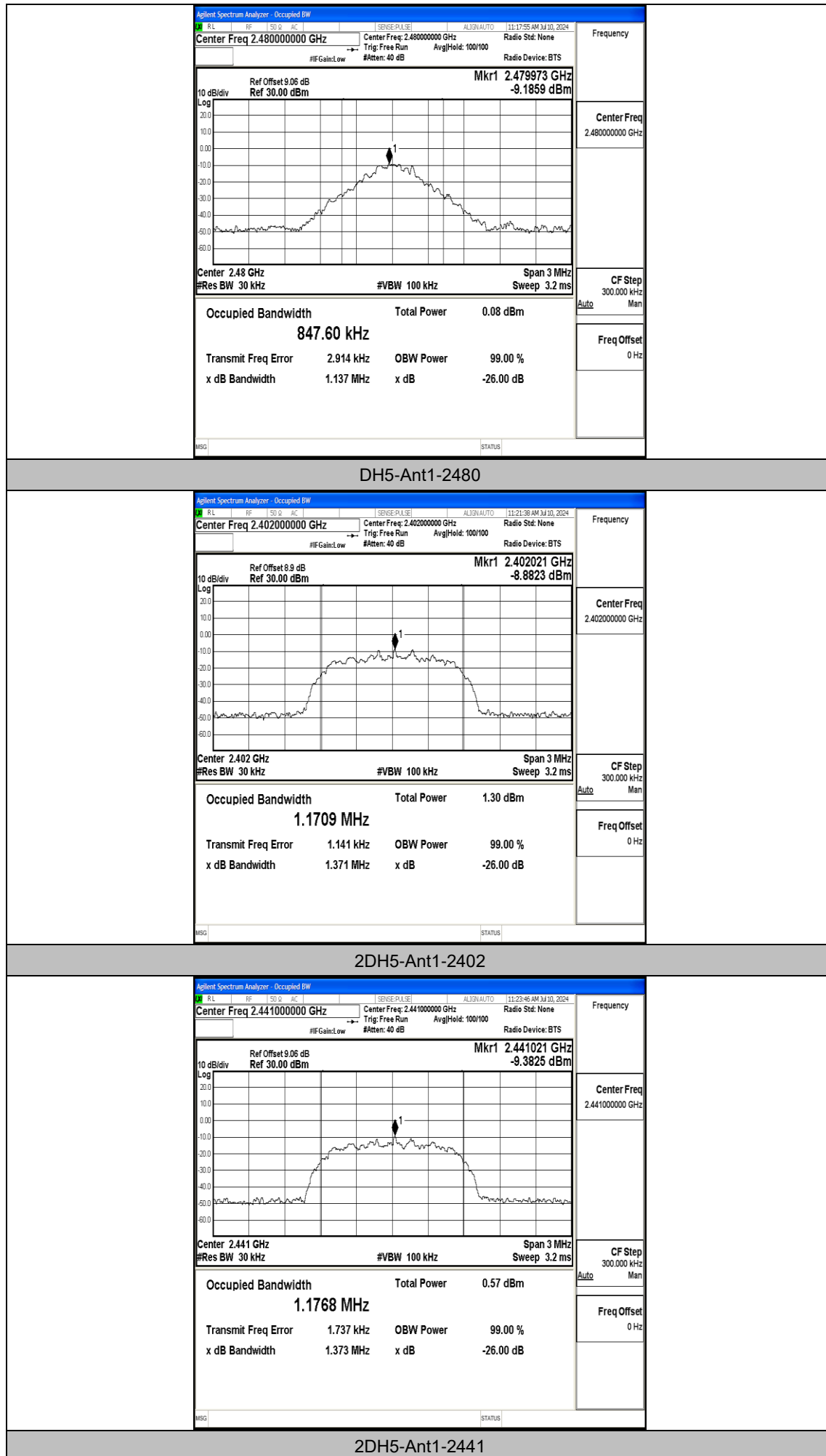
Appendix B: Occupied Channel Bandwidth

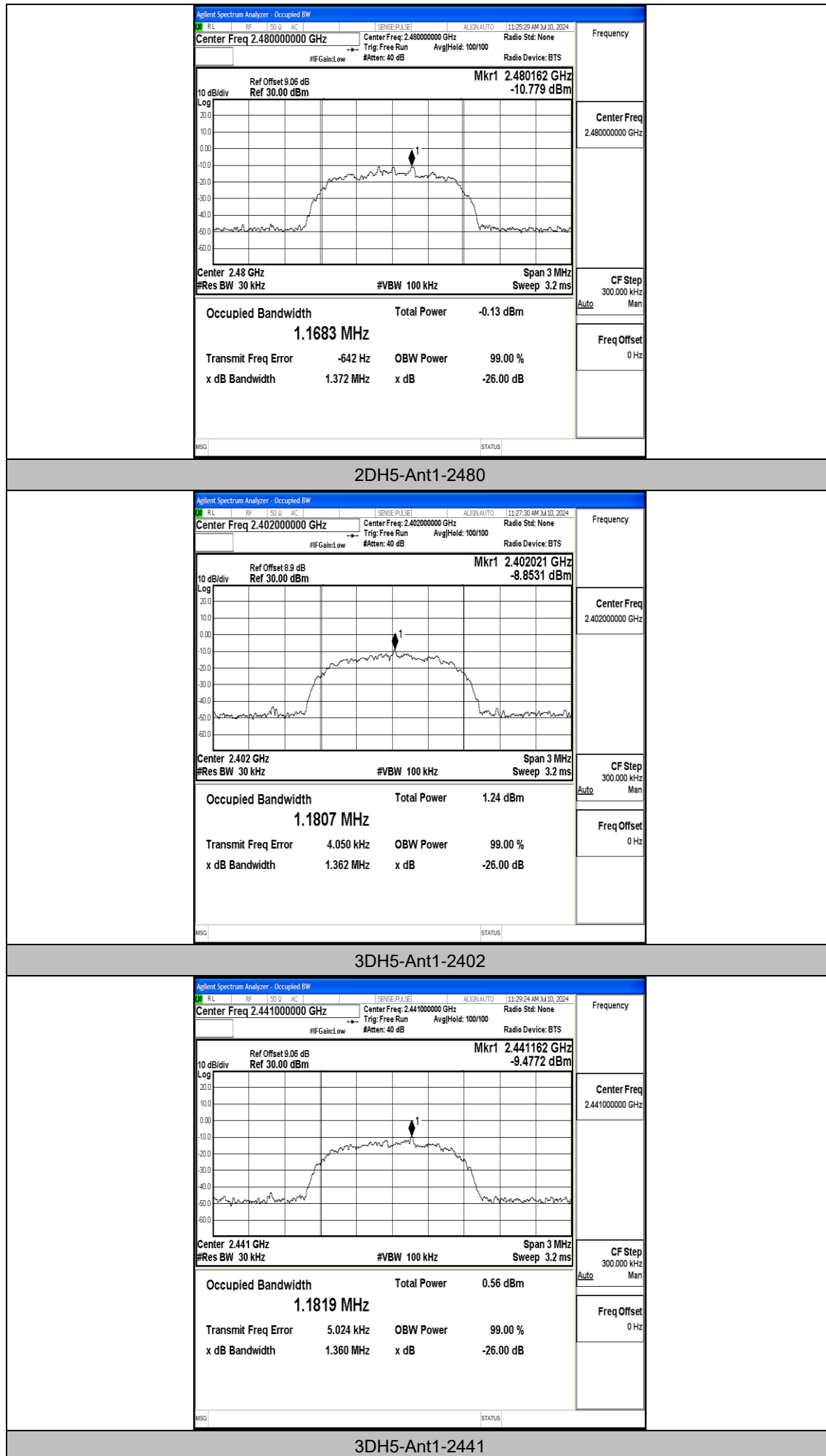
Test Result

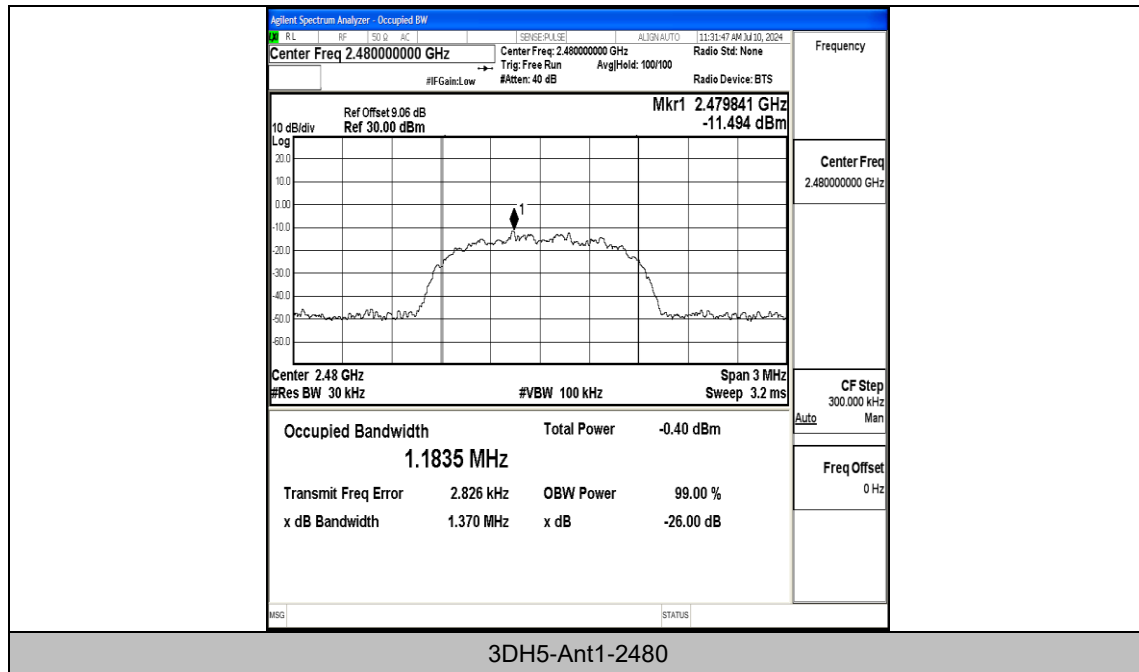
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.83337	2401.5902	2402.4235	---	---
DH5	Ant1	2441	0.84649	2440.5769	2441.4234	---	---
DH5	Ant1	2480	0.84760	2479.5791	2480.4267	---	---
2DH5	Ant1	2402	1.1709	2401.4157	2402.5866	---	---
2DH5	Ant1	2441	1.1768	2440.4133	2441.5901	---	---
2DH5	Ant1	2480	1.1683	2479.4152	2480.5835	---	---
3DH5	Ant1	2402	1.1807	2401.4137	2402.5944	---	---
3DH5	Ant1	2441	1.1819	2440.4141	2441.5960	---	---
3DH5	Ant1	2480	1.1835	2479.4111	2480.5946	---	---

Test Graphs







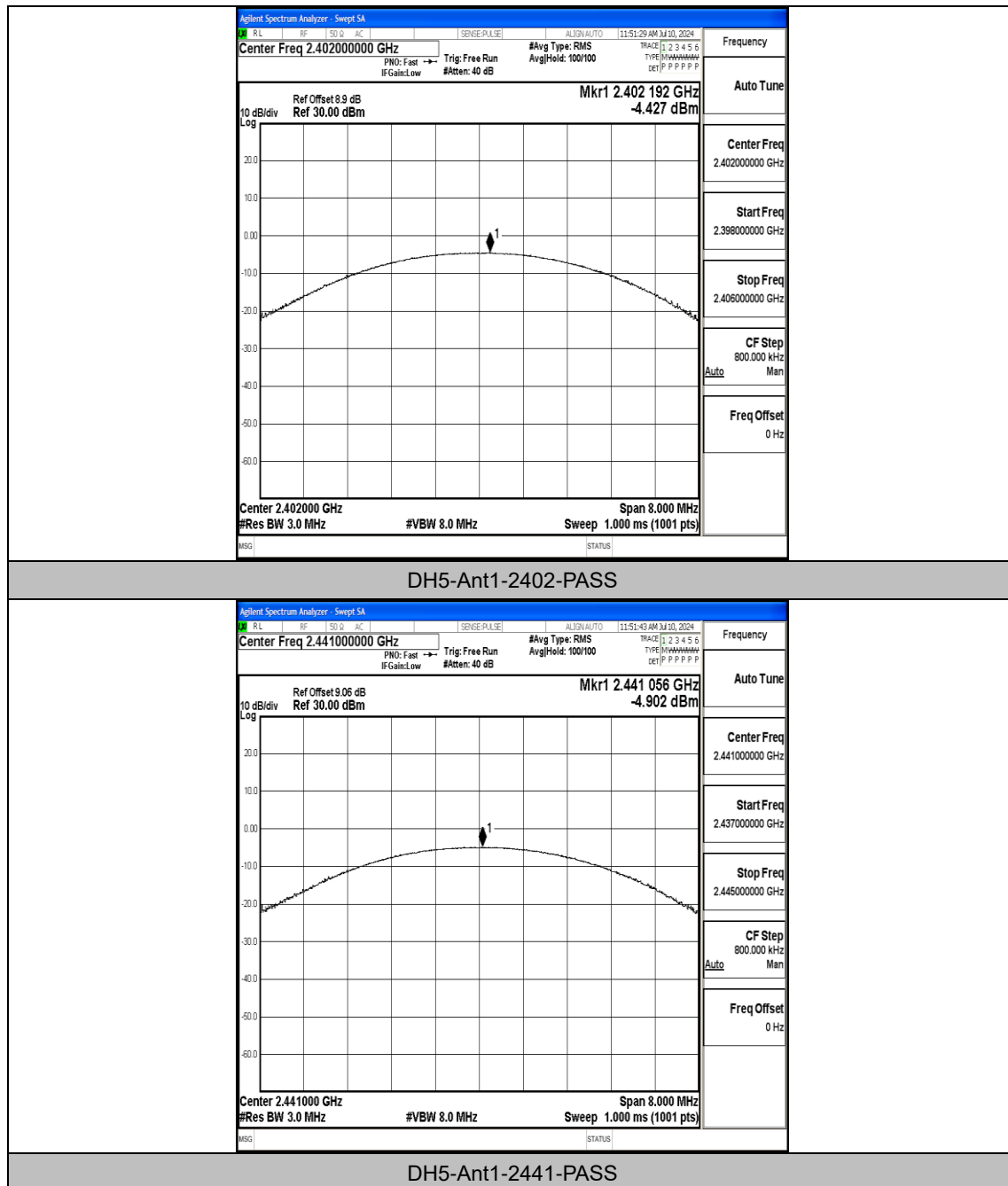


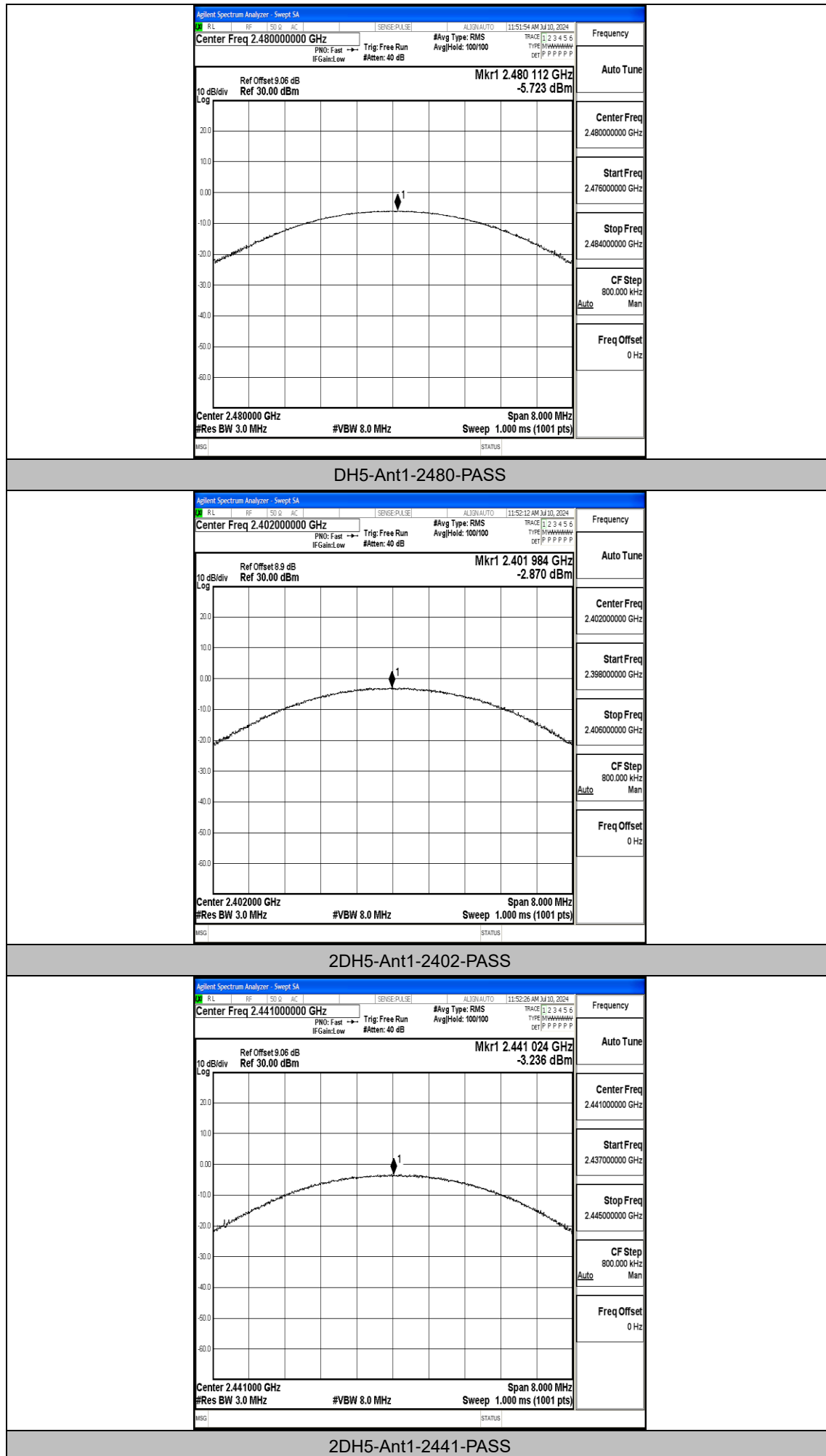
Appendix C: Maximum peak conducted output power

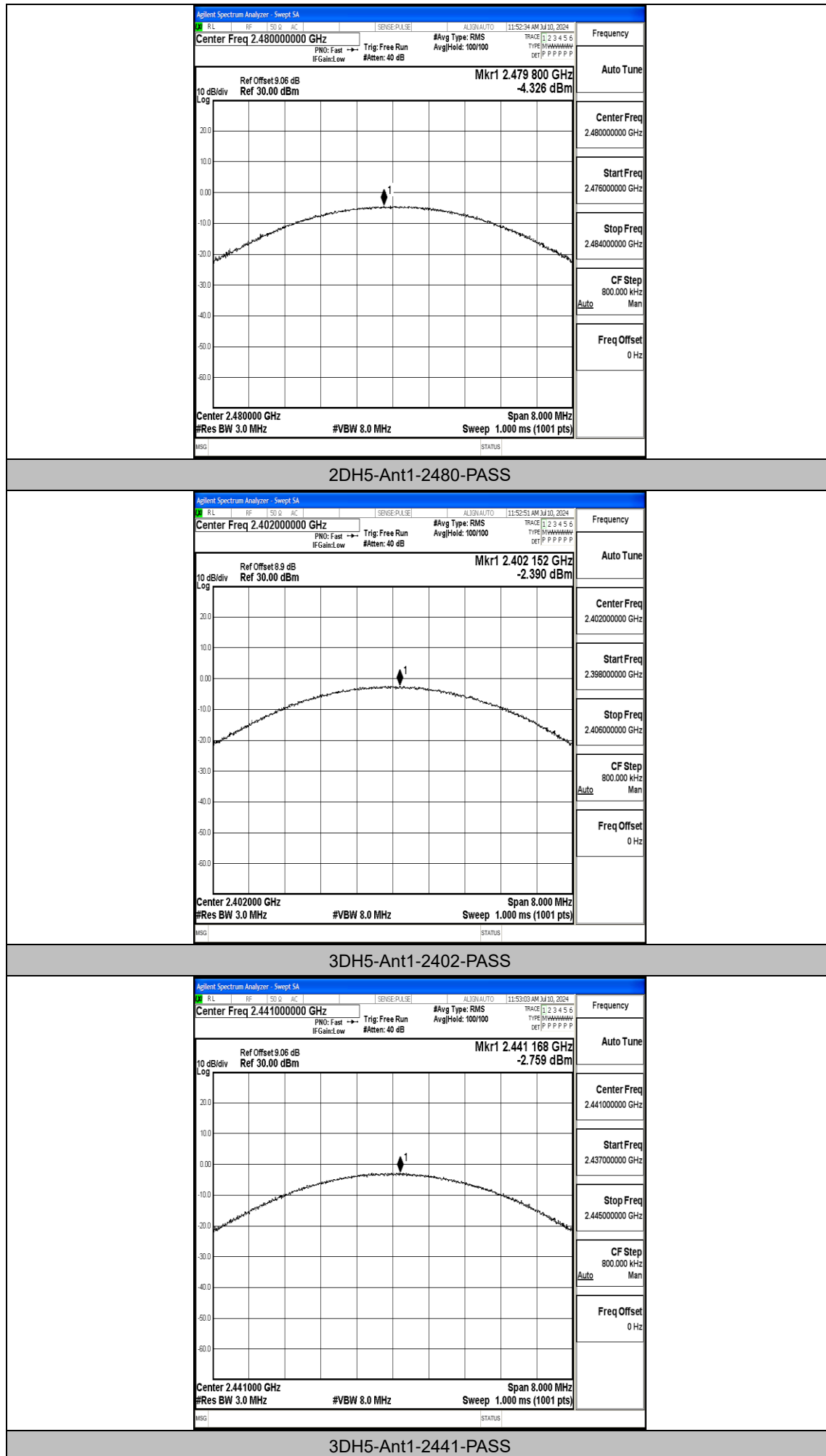
Test Result

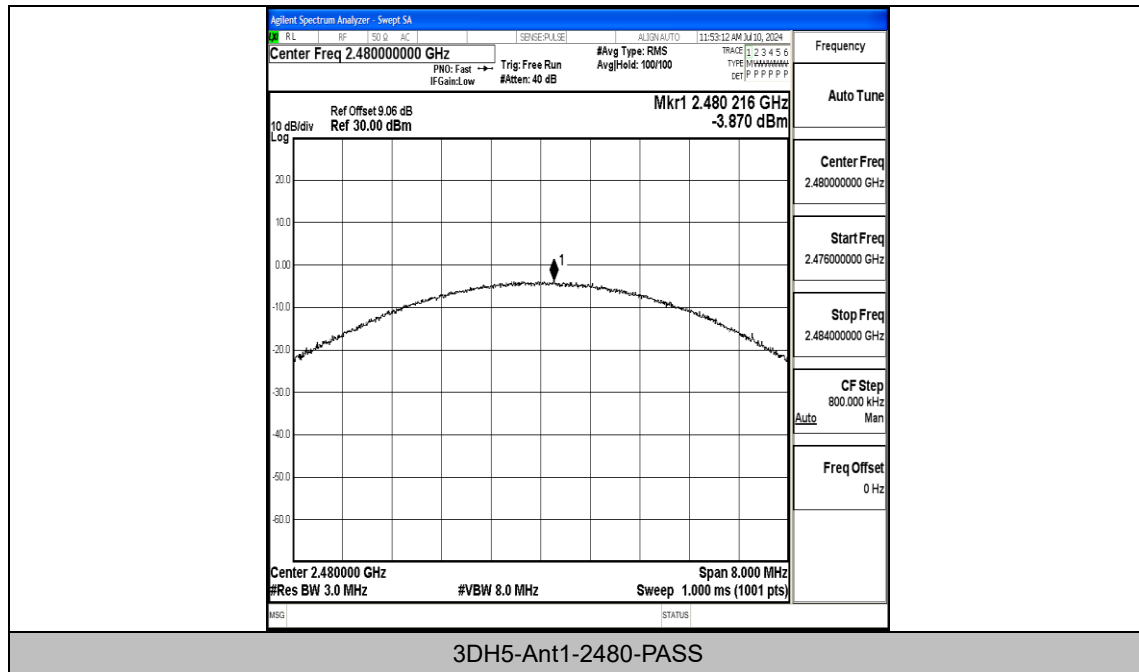
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-4.43	≤30	PASS
DH5	Ant1	2441	-4.90	≤30	PASS
DH5	Ant1	2480	-5.72	≤30	PASS
2DH5	Ant1	2402	-2.87	≤20.97	PASS
2DH5	Ant1	2441	-3.24	≤20.97	PASS
2DH5	Ant1	2480	-4.33	≤20.97	PASS
3DH5	Ant1	2402	-2.39	≤20.97	PASS
3DH5	Ant1	2441	-2.76	≤20.97	PASS
3DH5	Ant1	2480	-3.87	≤20.97	PASS

Test Graphs







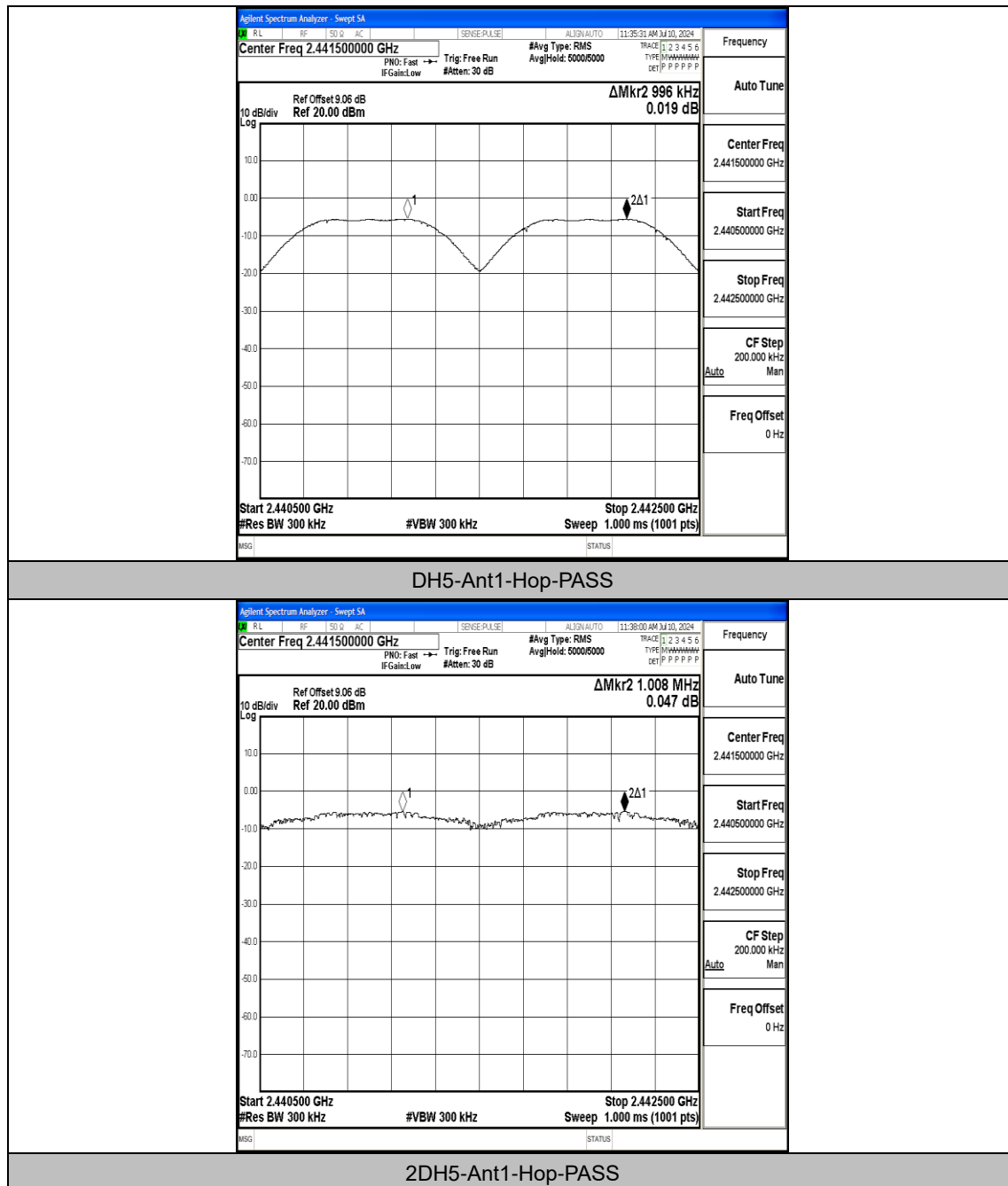


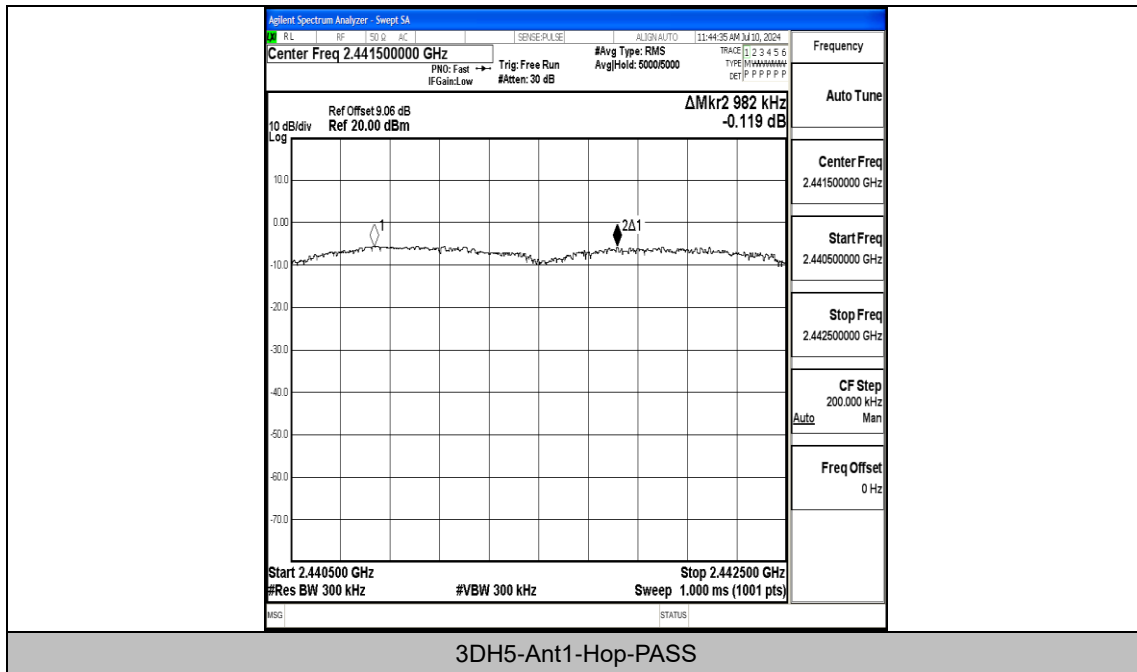
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.996	≥ 0.951	PASS
2DH5	Ant1	Hop	1.008	≥ 0.862	PASS
3DH5	Ant1	Hop	0.982	≥ 0.872	PASS

Test Graphs



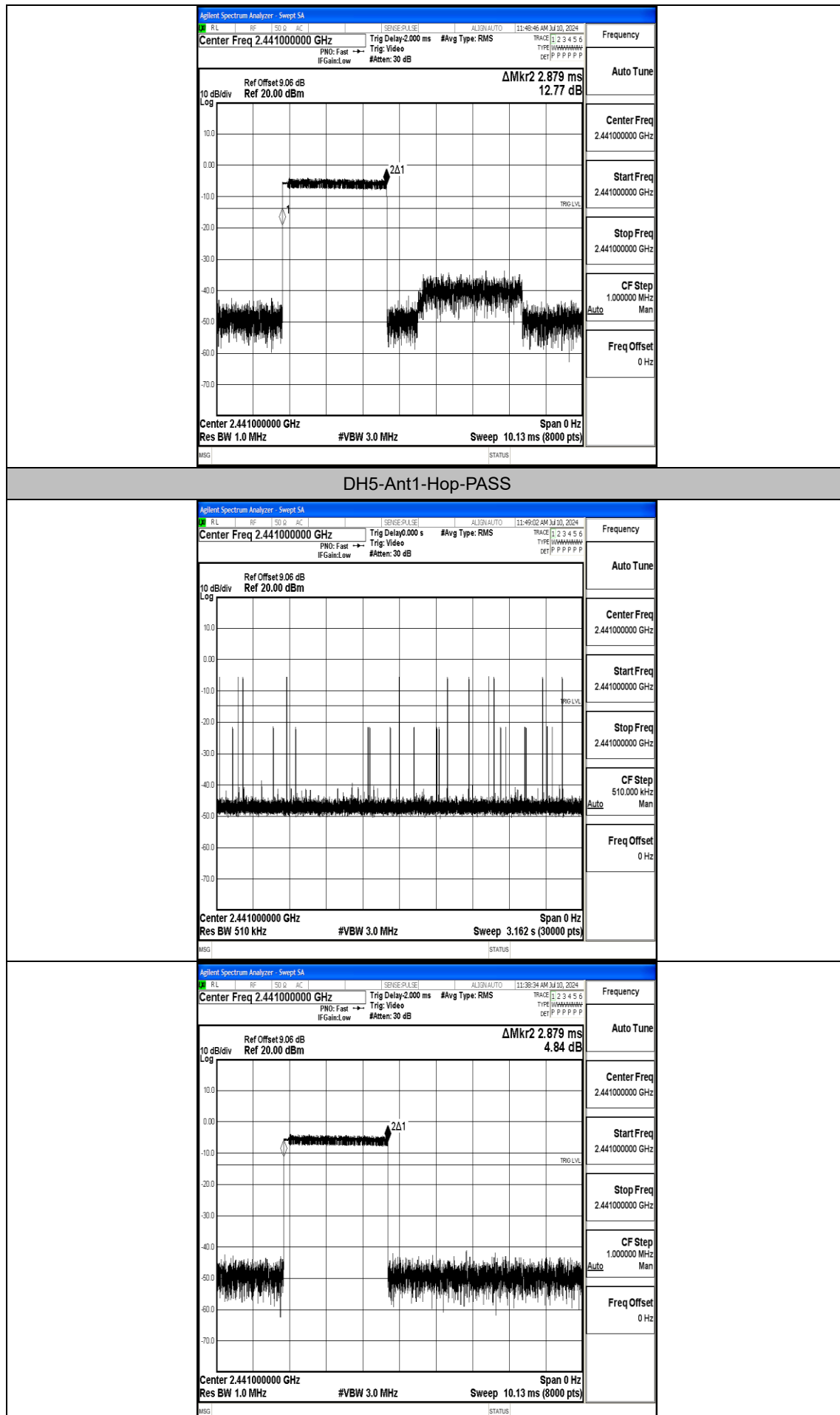


Appendix E: Time of occupancy

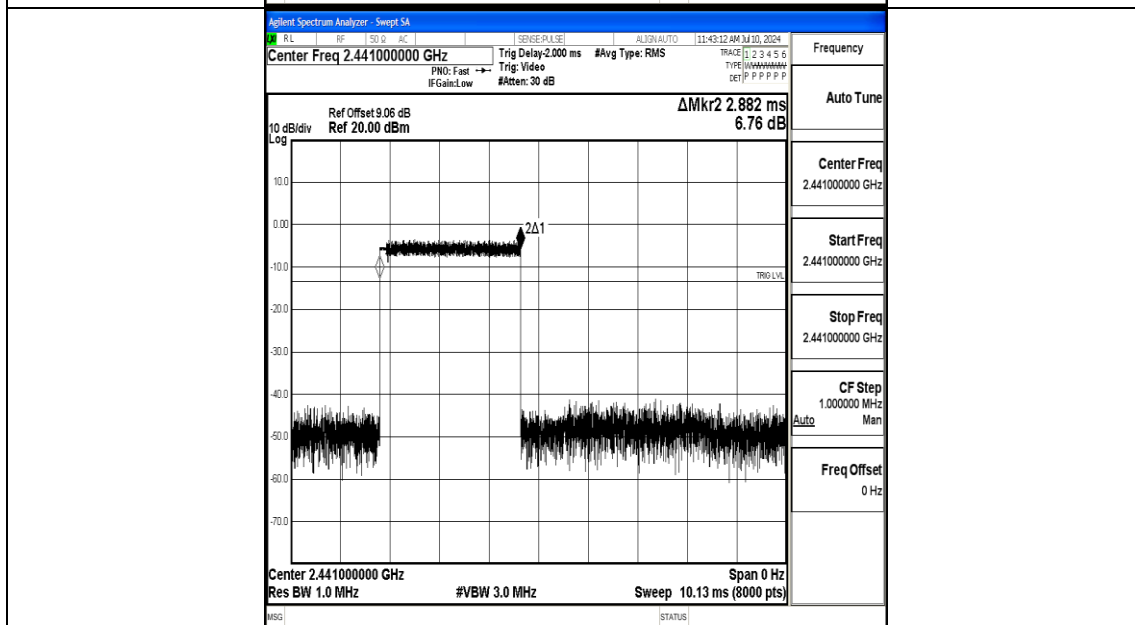
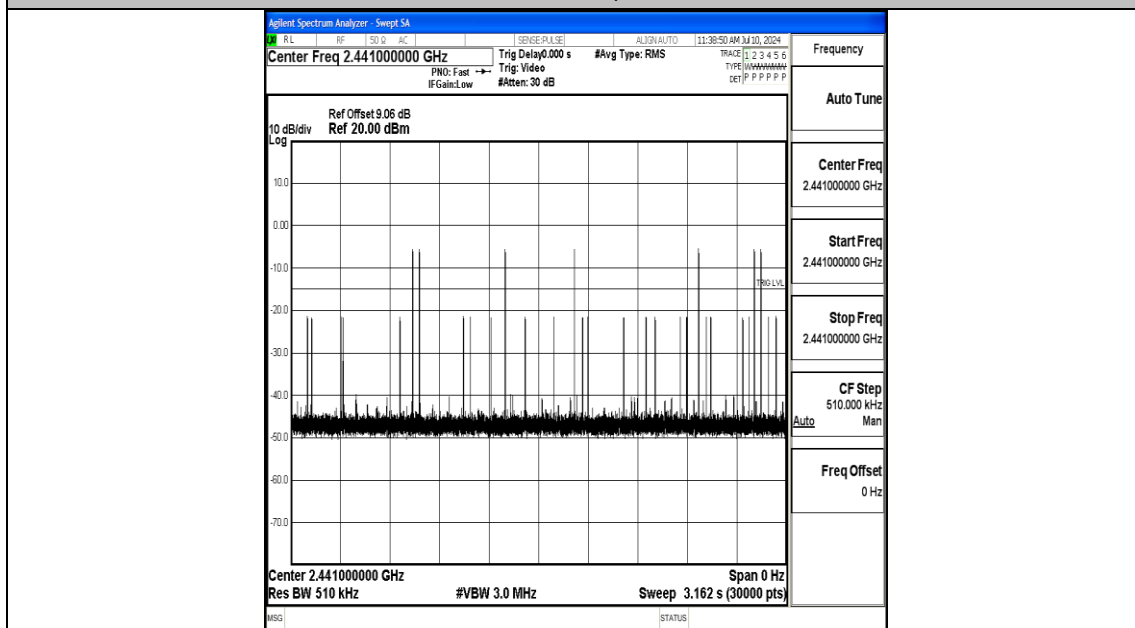
Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.879	120	0.345	≤0.4	PASS
2DH5	Ant1	Hop	2.879	80	0.23	≤0.4	PASS
3DH5	Ant1	Hop	2.882	70	0.202	≤0.4	PASS

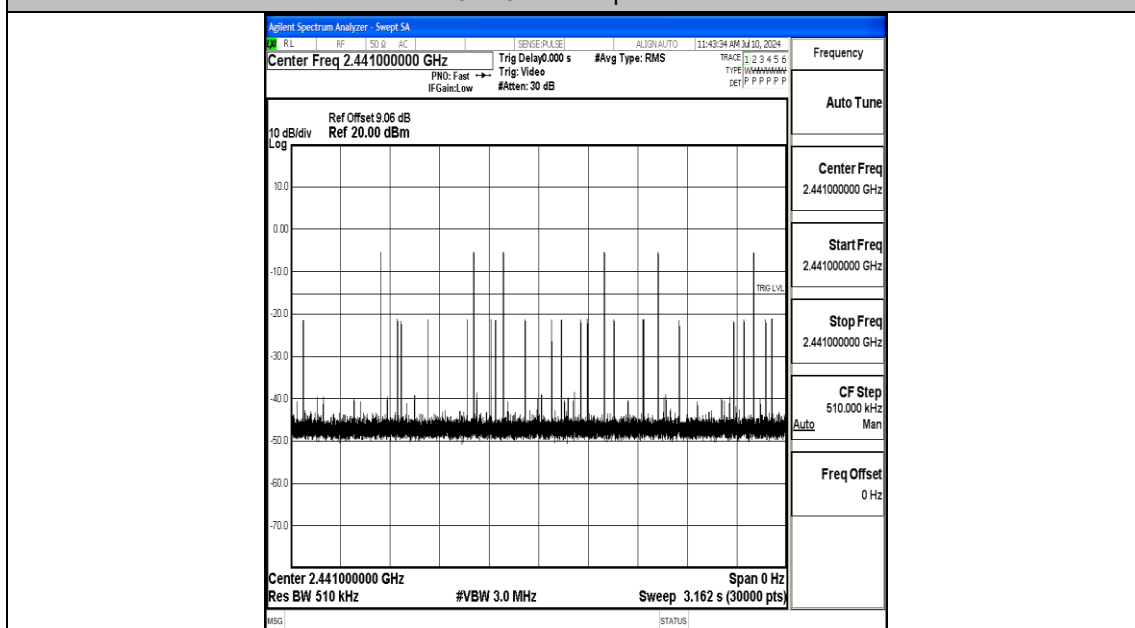
Test Graphs



2DH5-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS

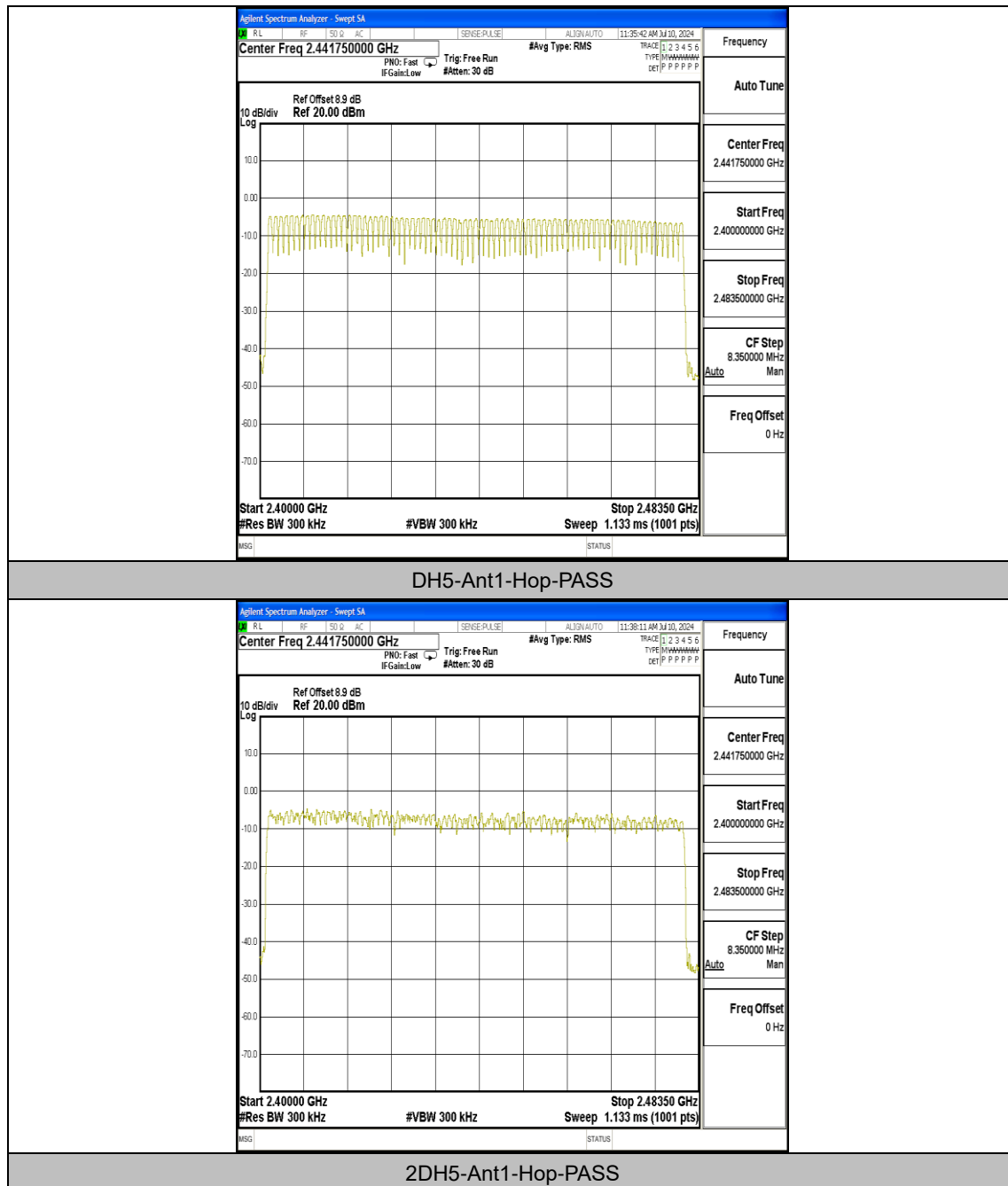


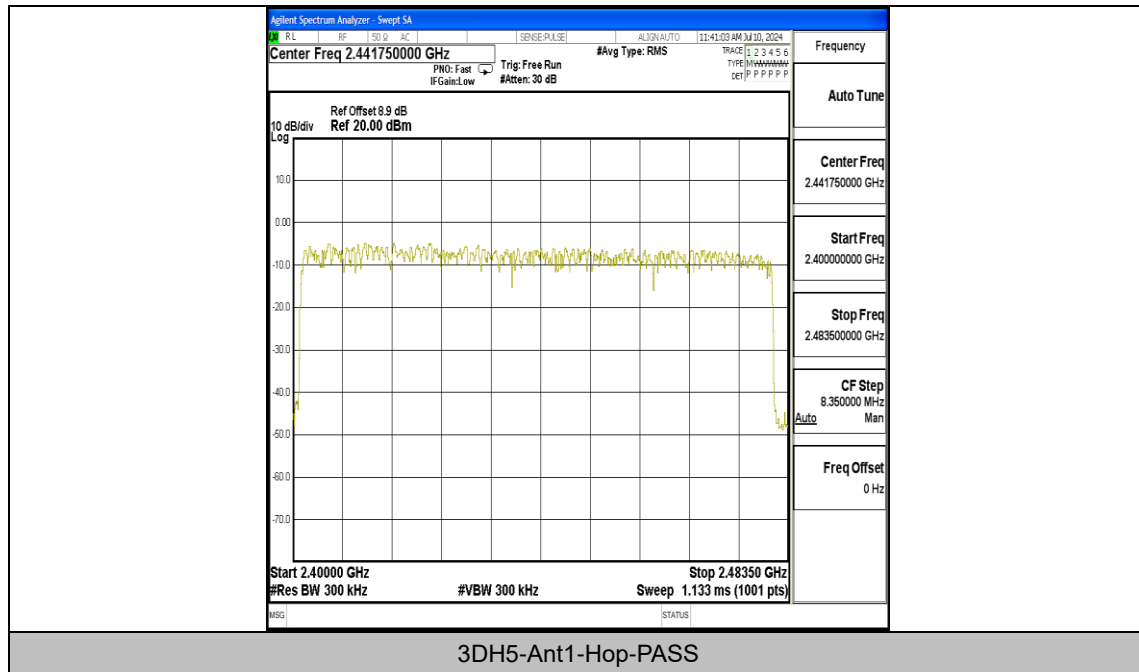
Appendix F: Number of hopping channels

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



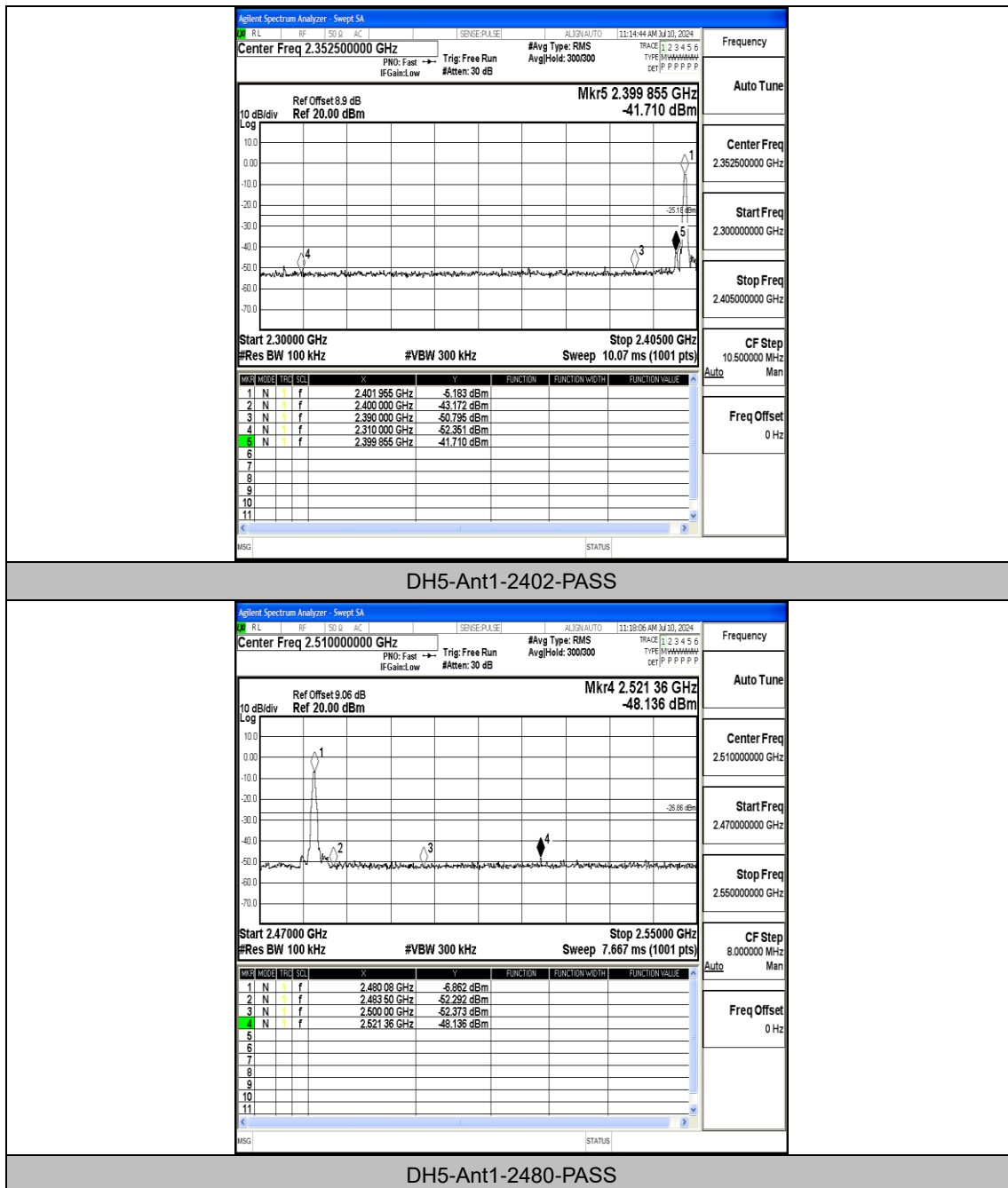


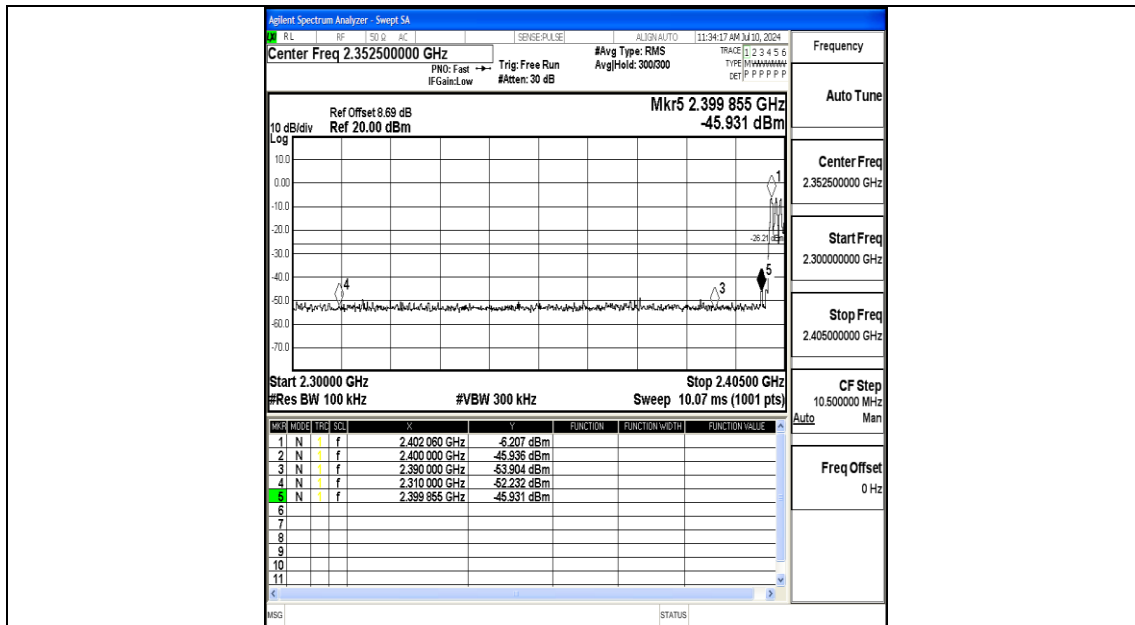
Appendix G: Band edge measurements

Test Result

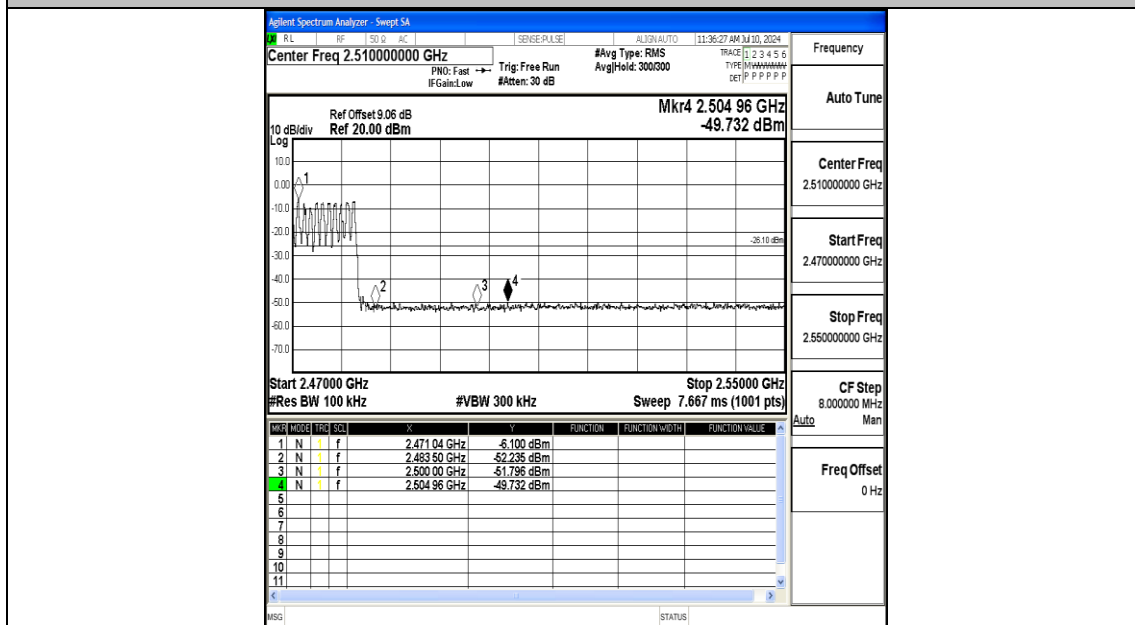
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-5.18	-41.71	≤-25.18	PASS
DH5	Ant1	High	2480	-6.86	-48.14	≤-26.86	PASS
DH5	Ant1	Low	Hop_2402	-6.21	-45.93	≤-26.21	PASS
DH5	Ant1	High	Hop_2480	-6.10	-49.73	≤-26.1	PASS
2DH5	Ant1	Low	2402	-5.93	-42.79	≤-25.93	PASS
2DH5	Ant1	High	2480	-6.90	-49.46	≤-26.9	PASS
2DH5	Ant1	Low	Hop_2402	-7.95	-46.78	≤-27.95	PASS
2DH5	Ant1	High	Hop_2480	-7.52	-48.74	≤-27.52	PASS
3DH5	Ant1	Low	2402	-5.64	-42.48	≤-25.64	PASS
3DH5	Ant1	High	2480	-6.67	-49.11	≤-26.67	PASS
3DH5	Ant1	Low	Hop_2402	-8.60	-45	≤-28.6	PASS
3DH5	Ant1	High	Hop_2480	-6.89	-49.14	≤-26.89	PASS

Test Graphs

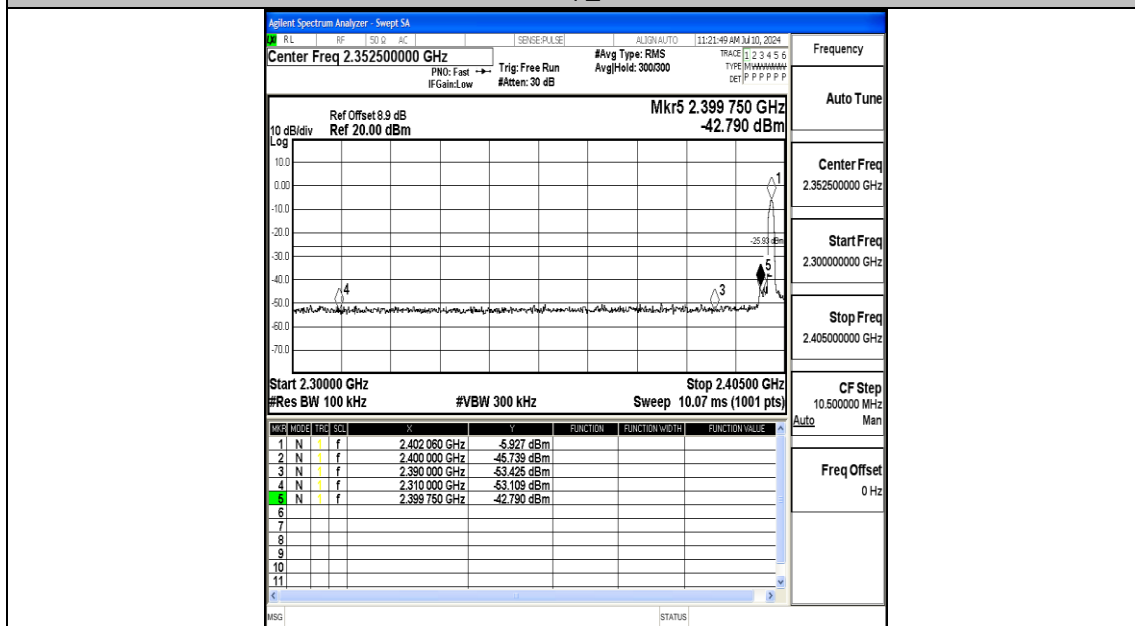




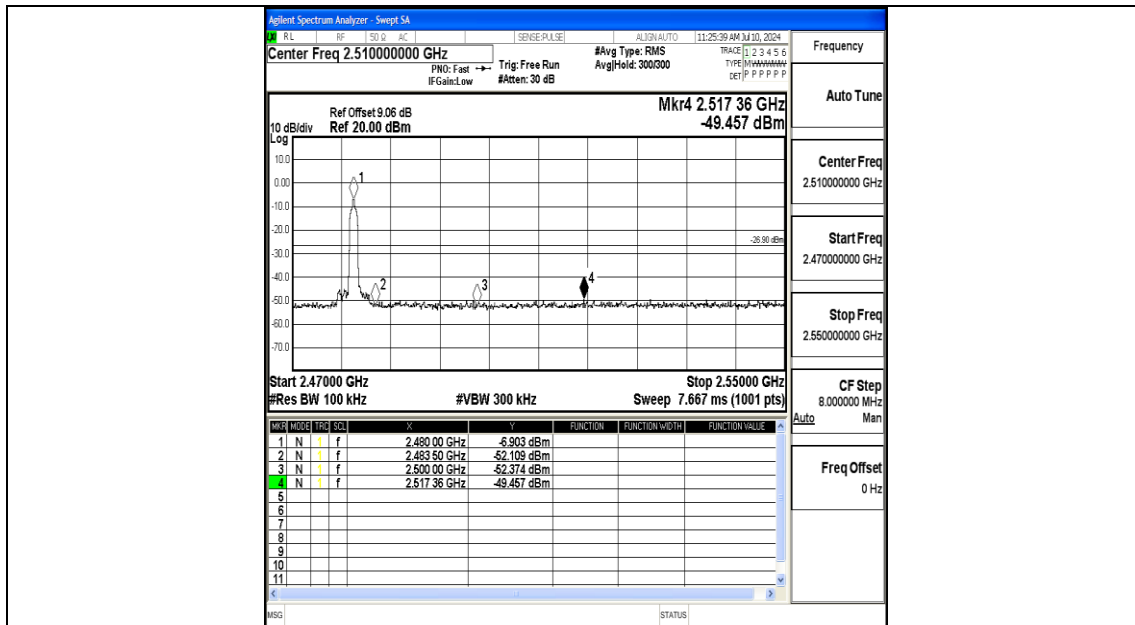
DH5-Ant1-Hop_2402-PASS



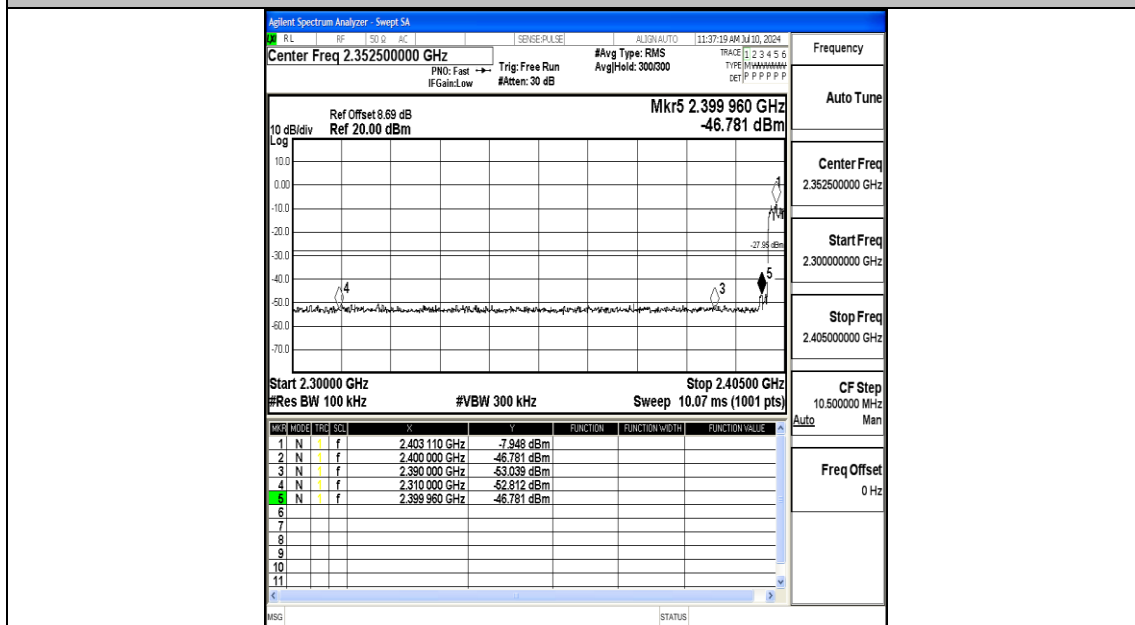
DH5-Ant1-Hop_2480-PASS



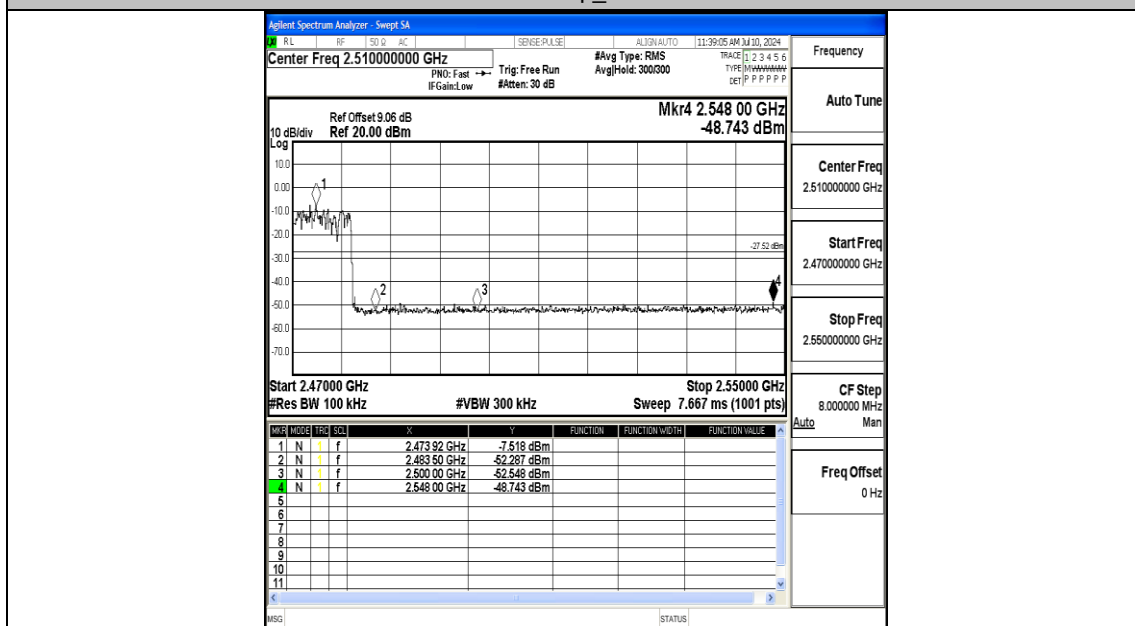
2DH5-Ant1-2402-PASS



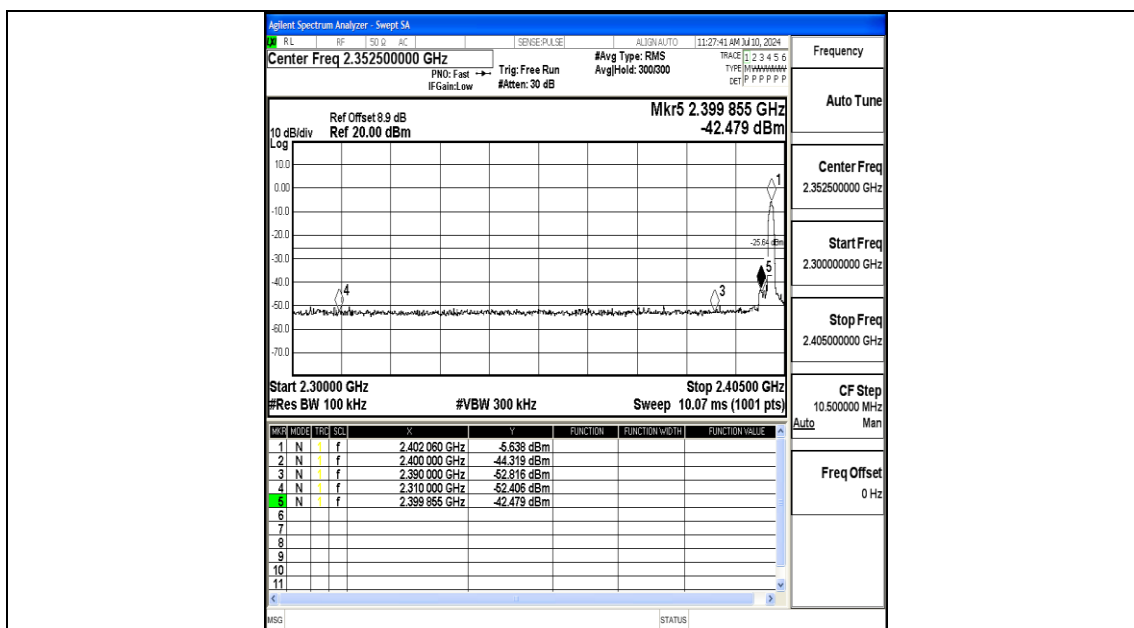
2DH5-Ant1-2480-PASS



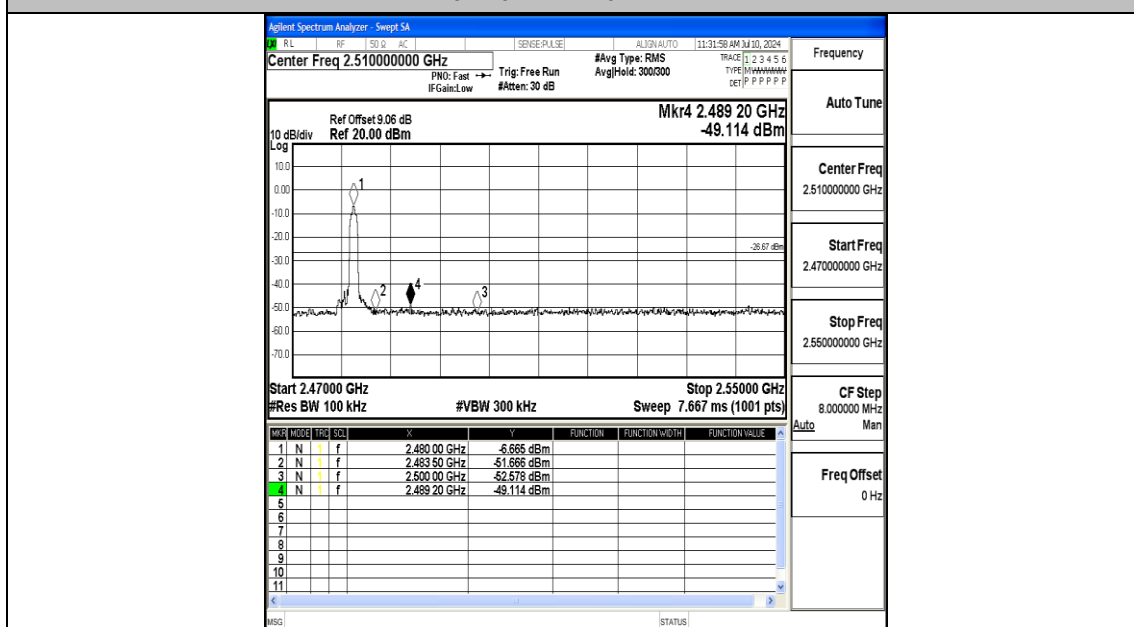
2DH5-Ant1-Hop_2402-PASS



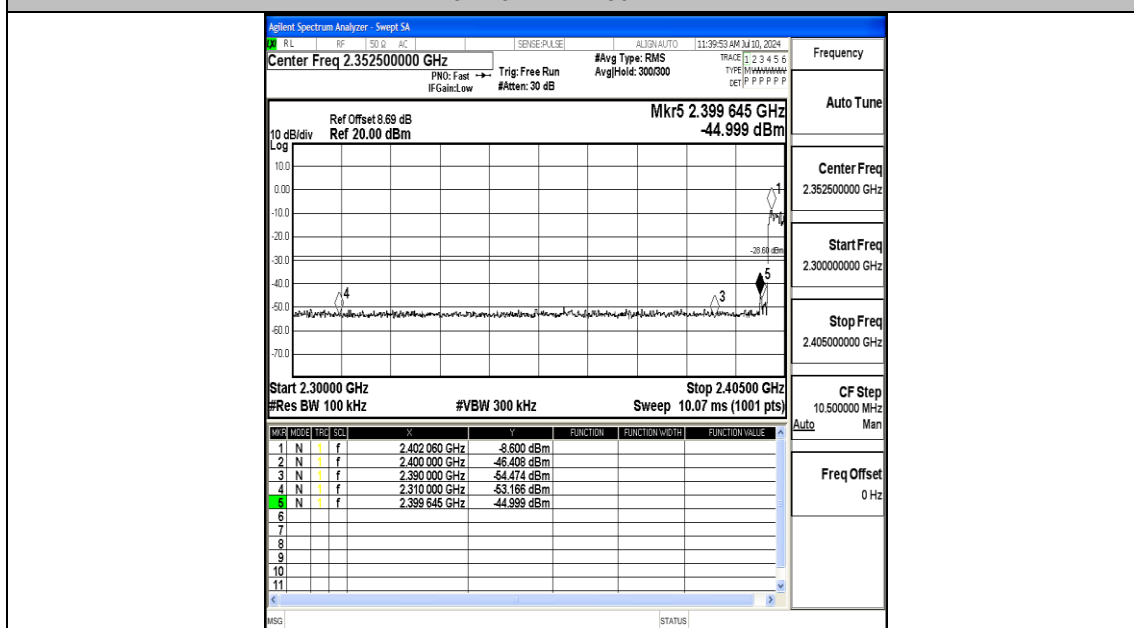
2DH5-Ant1-Hop_2480-PASS



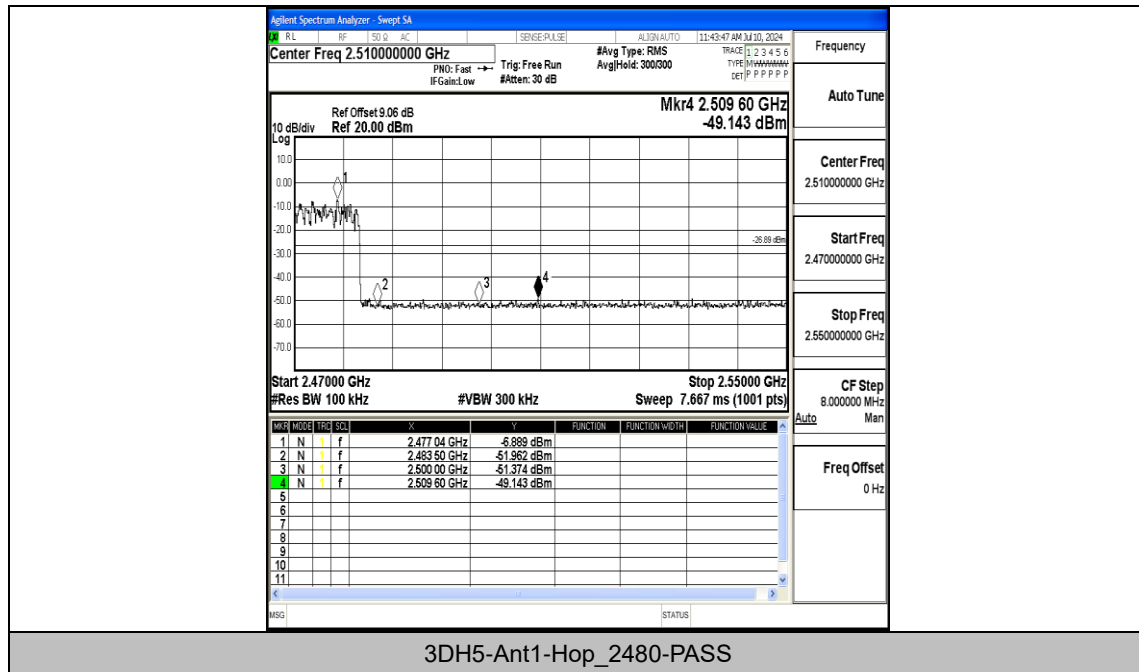
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS

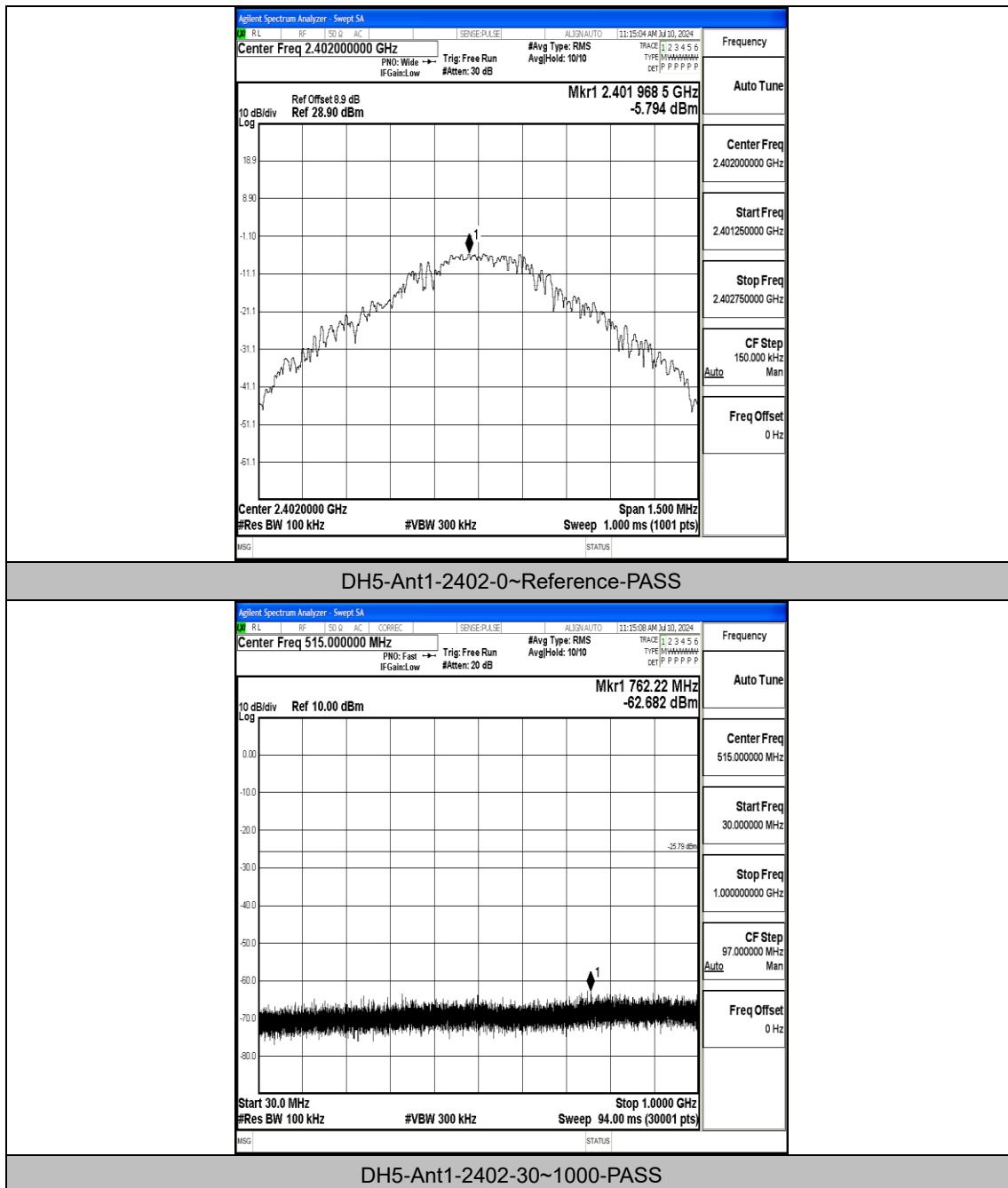


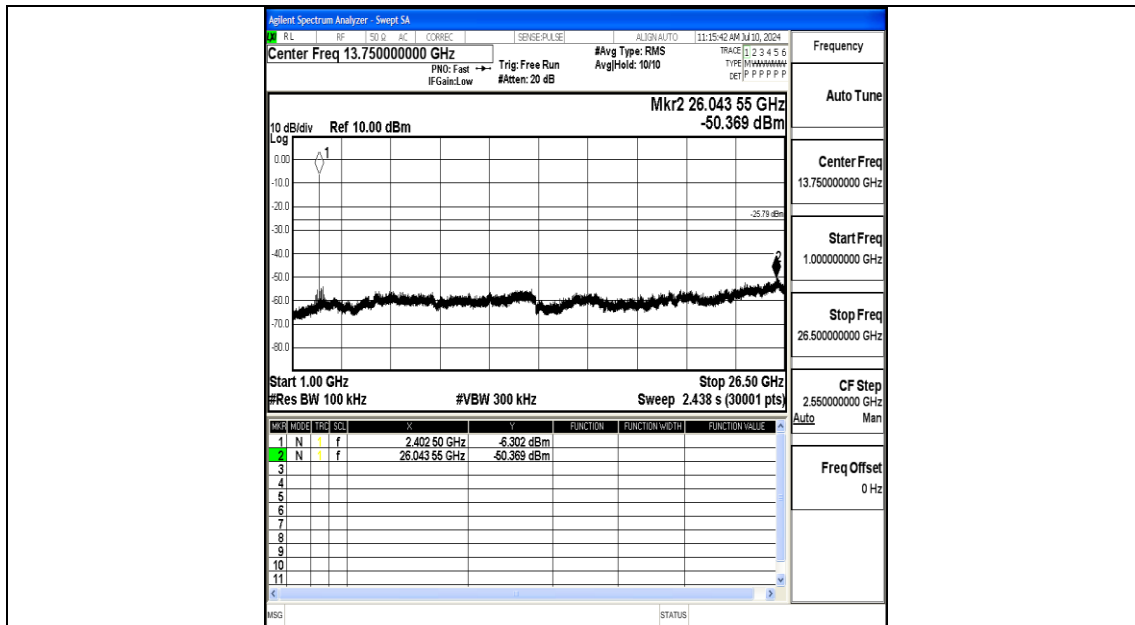
Appendix H: Conducted Spurious Emission

Test Result

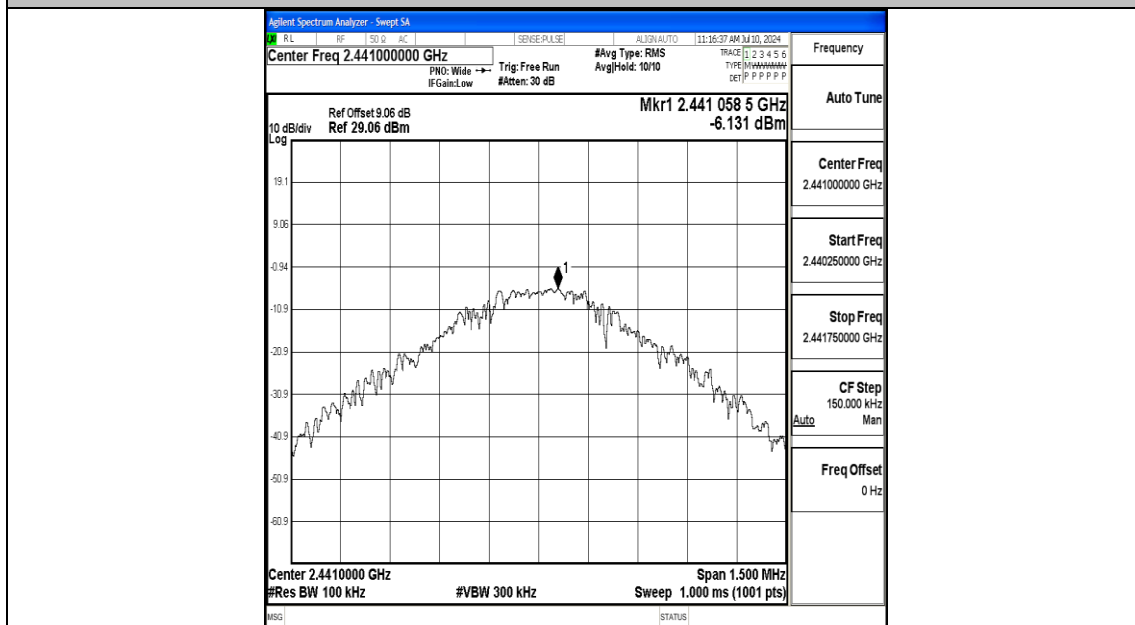
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-5.79	-5.79	---	PASS
DH5	Ant1	2402	30~1000	-5.79	-62.68	≤-25.79	PASS
DH5	Ant1	2402	1000~26500	-5.79	-50.37	≤-25.79	PASS
DH5	Ant1	2441	0~Reference	-6.13	-6.13	---	PASS
DH5	Ant1	2441	30~1000	-6.13	-62.48	≤-26.13	PASS
DH5	Ant1	2441	1000~26500	-6.13	-50.23	≤-26.13	PASS
DH5	Ant1	2480	0~Reference	-7.20	-7.20	---	PASS
DH5	Ant1	2480	30~1000	-7.20	-62.99	≤-27.2	PASS
DH5	Ant1	2480	1000~26500	-7.20	-50.51	≤-27.2	PASS
2DH5	Ant1	2402	0~Reference	-5.96	-5.96	---	PASS
2DH5	Ant1	2402	30~1000	-5.96	-61.55	≤-25.96	PASS
2DH5	Ant1	2402	1000~26500	-5.96	-49.34	≤-25.96	PASS
2DH5	Ant1	2441	0~Reference	-6.41	-6.41	---	PASS
2DH5	Ant1	2441	30~1000	-6.41	-62.59	≤-26.41	PASS
2DH5	Ant1	2441	1000~26500	-6.41	-47.32	≤-26.41	PASS
2DH5	Ant1	2480	0~Reference	-7.23	-7.23	---	PASS
2DH5	Ant1	2480	30~1000	-7.23	-63.16	≤-27.23	PASS
2DH5	Ant1	2480	1000~26500	-7.23	-50.28	≤-27.23	PASS
3DH5	Ant1	2402	0~Reference	-5.82	-5.82	---	PASS
3DH5	Ant1	2402	30~1000	-5.82	-62.98	≤-25.82	PASS
3DH5	Ant1	2402	1000~26500	-5.82	-50.27	≤-25.82	PASS
3DH5	Ant1	2441	0~Reference	-6.93	-6.93	---	PASS
3DH5	Ant1	2441	30~1000	-6.93	-62.32	≤-26.93	PASS
3DH5	Ant1	2441	1000~26500	-6.93	-50.34	≤-26.93	PASS
3DH5	Ant1	2480	0~Reference	-7.09	-7.09	---	PASS
3DH5	Ant1	2480	30~1000	-7.09	-62.81	≤-27.09	PASS
3DH5	Ant1	2480	1000~26500	-7.09	-50.29	≤-27.09	PASS

Test Graphs

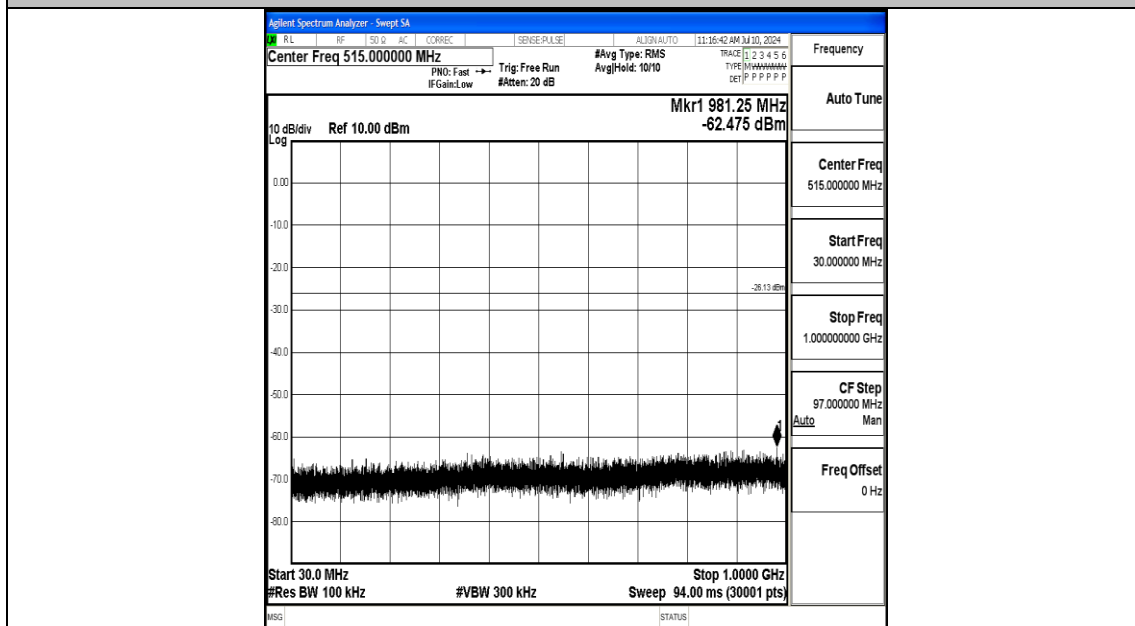




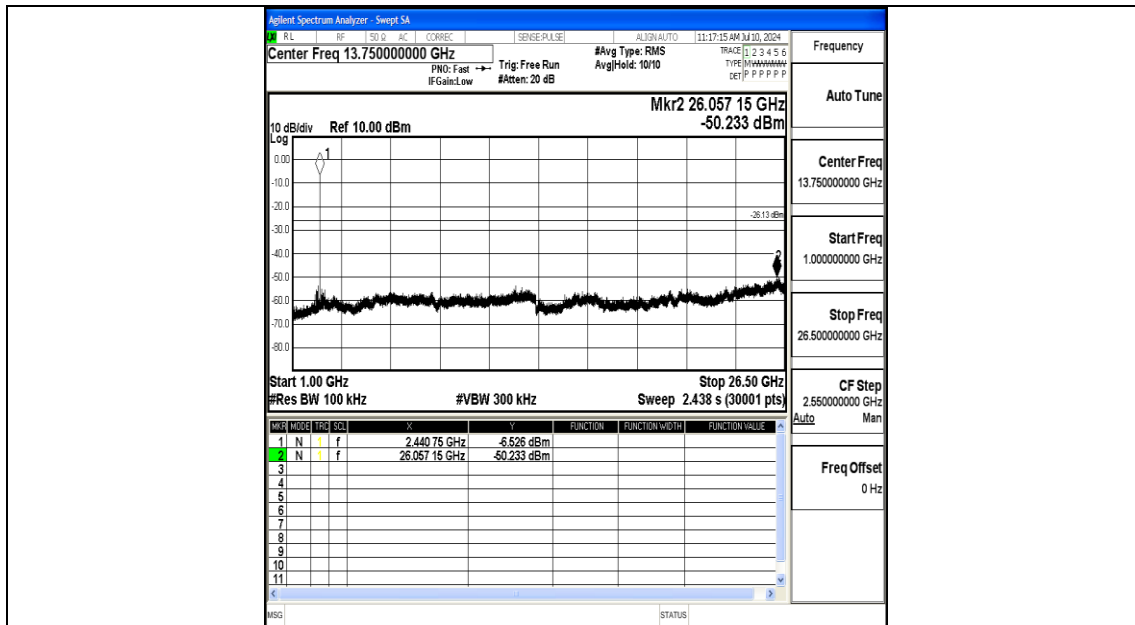
DH5-Ant1-2402-1000~26500-PASS



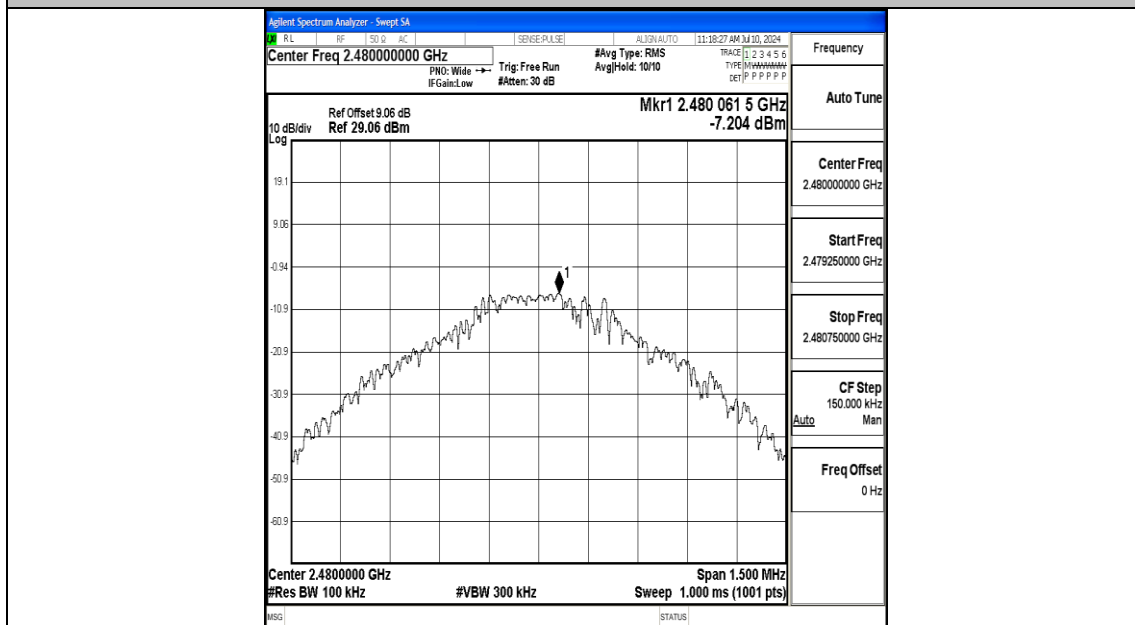
DH5-Ant1-2441-0~Reference-PASS



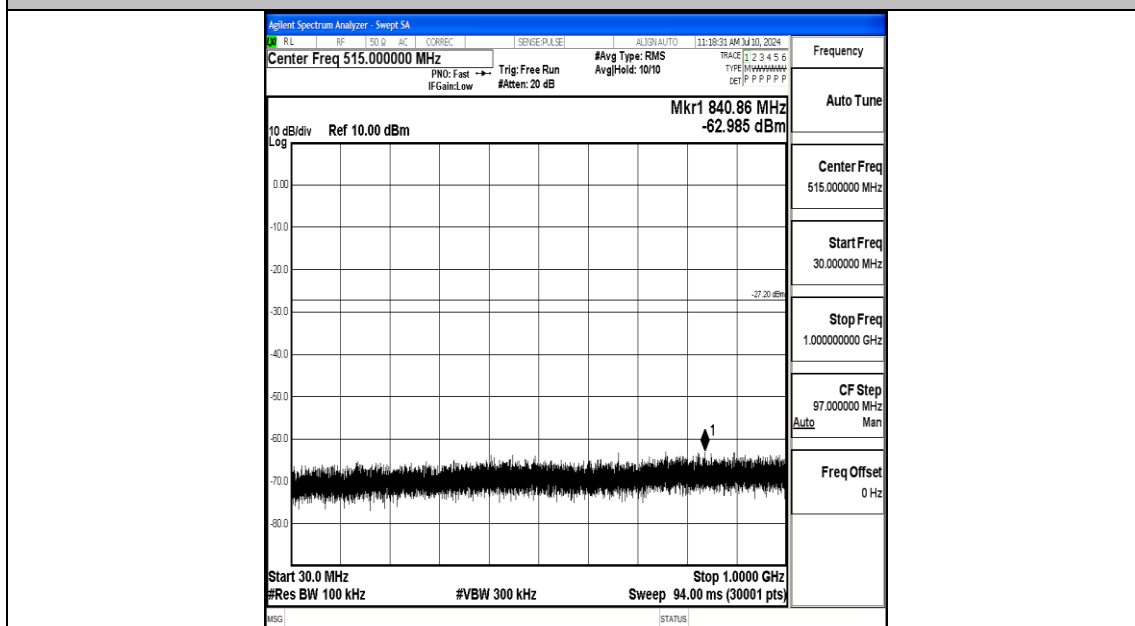
DH5-Ant1-2441-30~1000-PASS



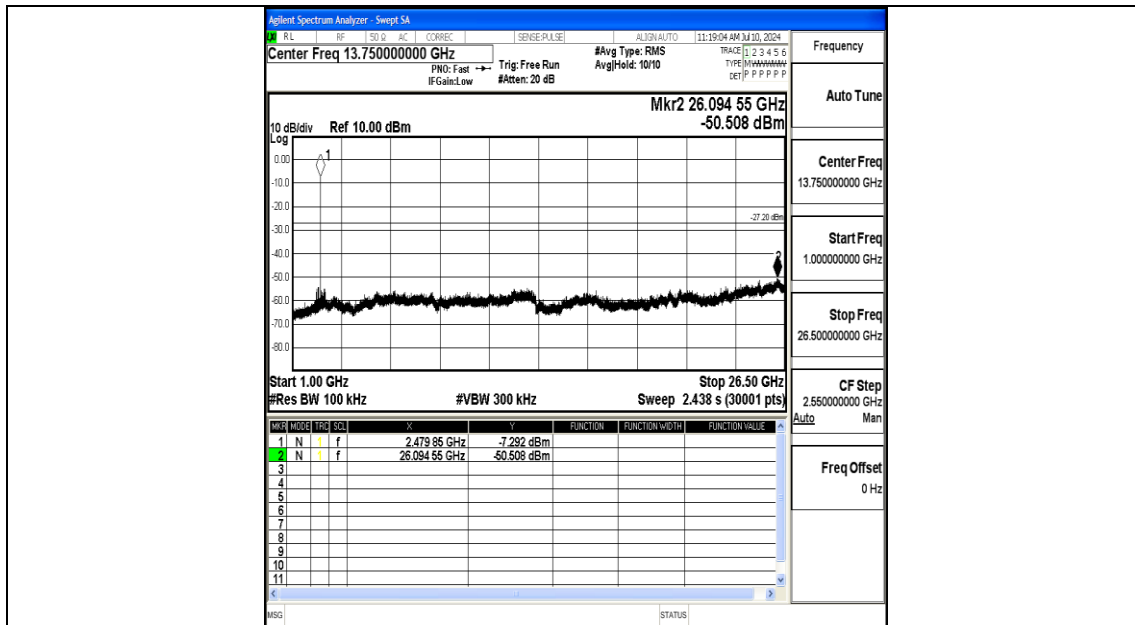
DH5-Ant1-2441-1000~26500-PASS



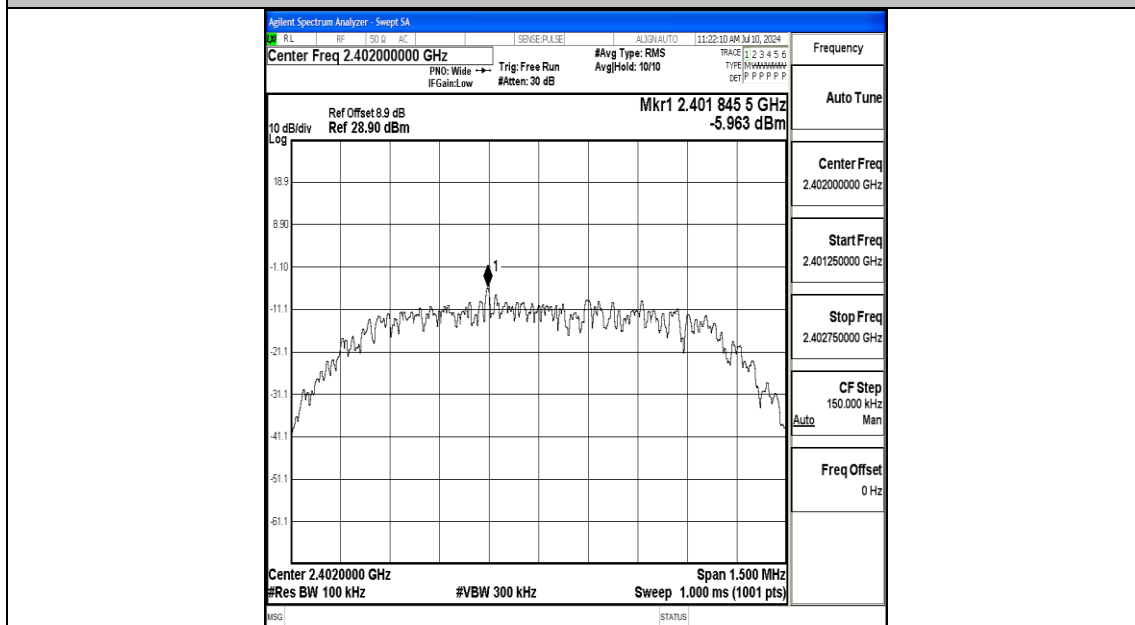
DH5-Ant1-2480-0~Reference-PASS



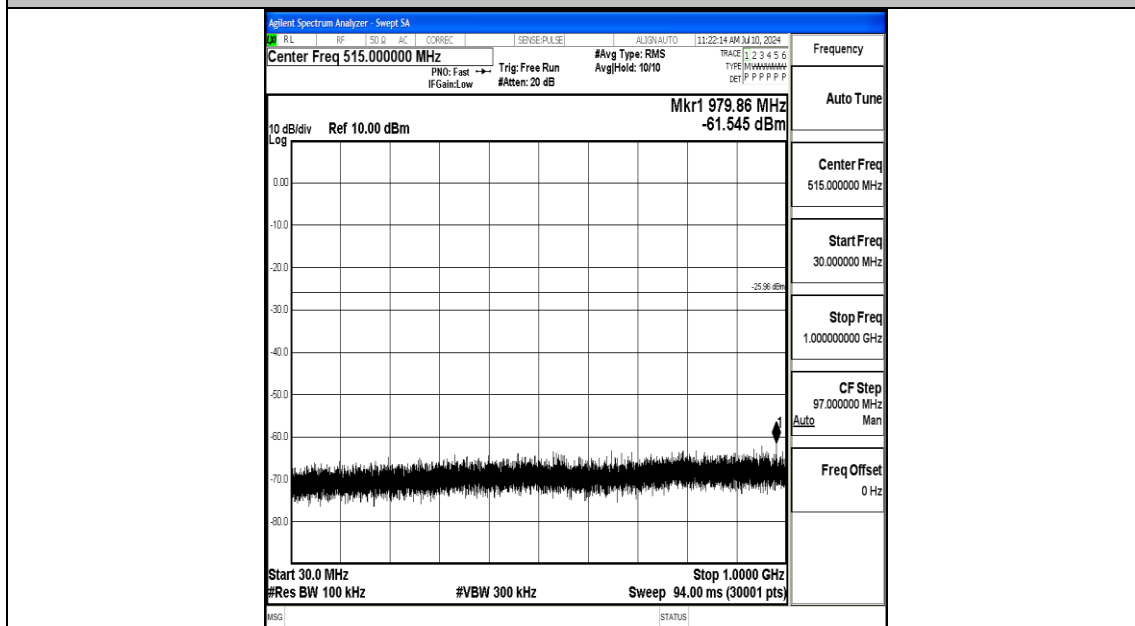
DH5-Ant1-2480-30~1000-PASS



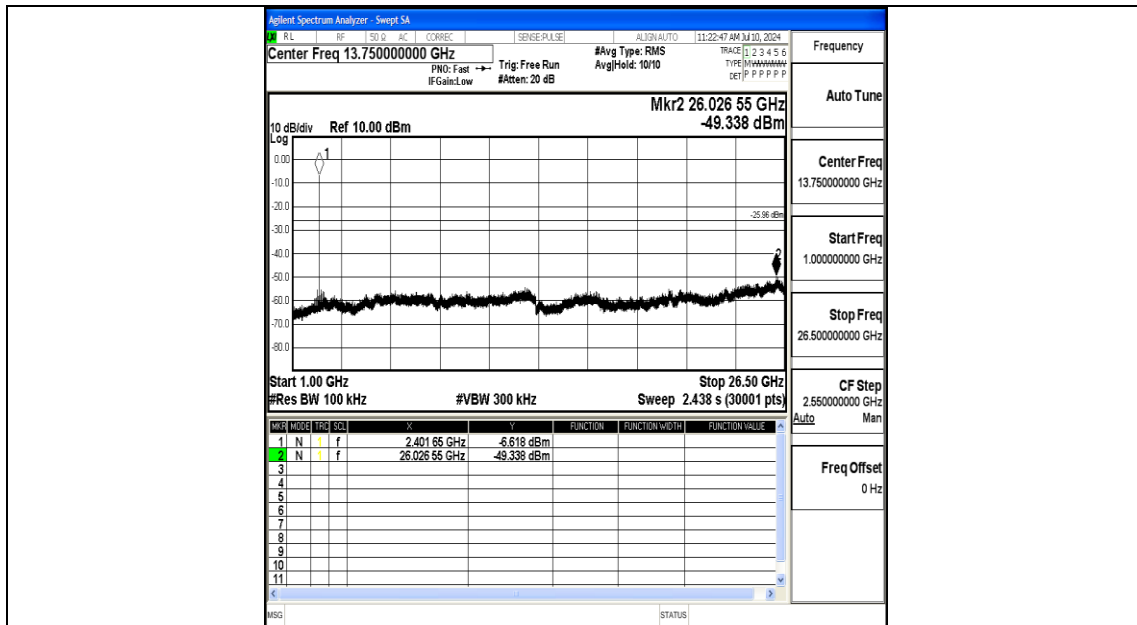
DH5-Ant1-2480-1000~26500-PASS



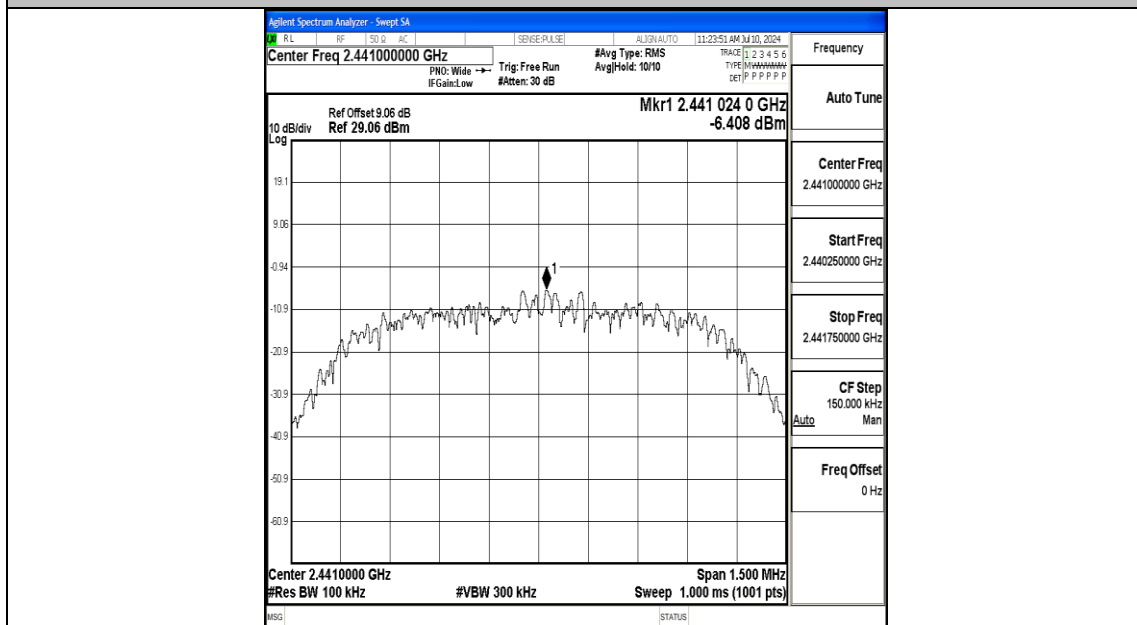
2DH5-Ant1-2402-0~Reference-PASS



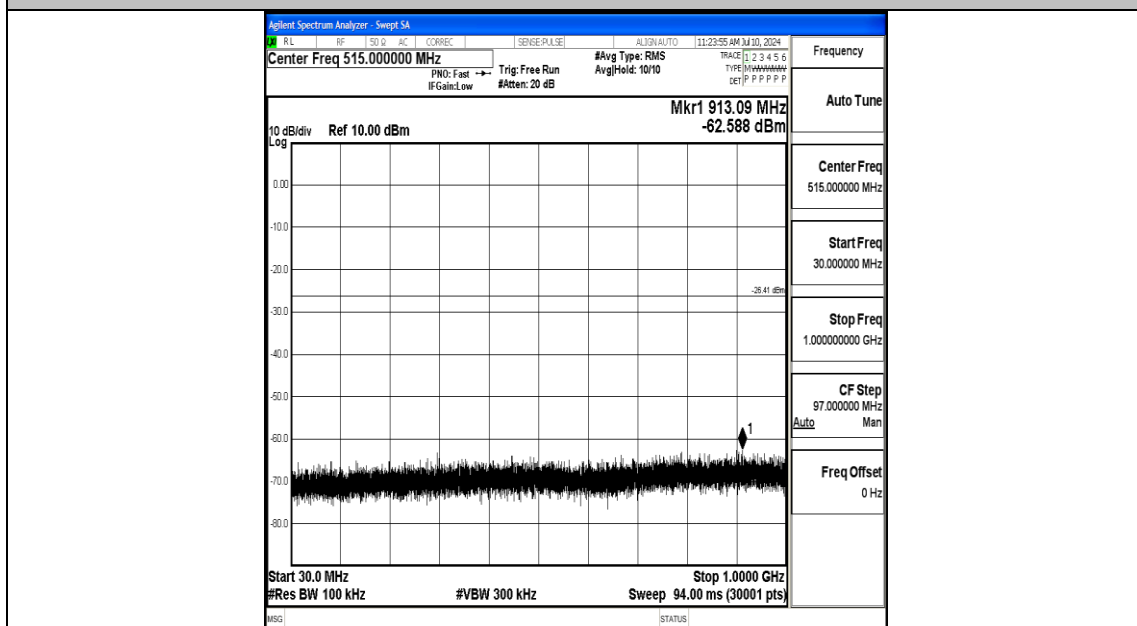
2DH5-Ant1-2402-30~1000-PASS



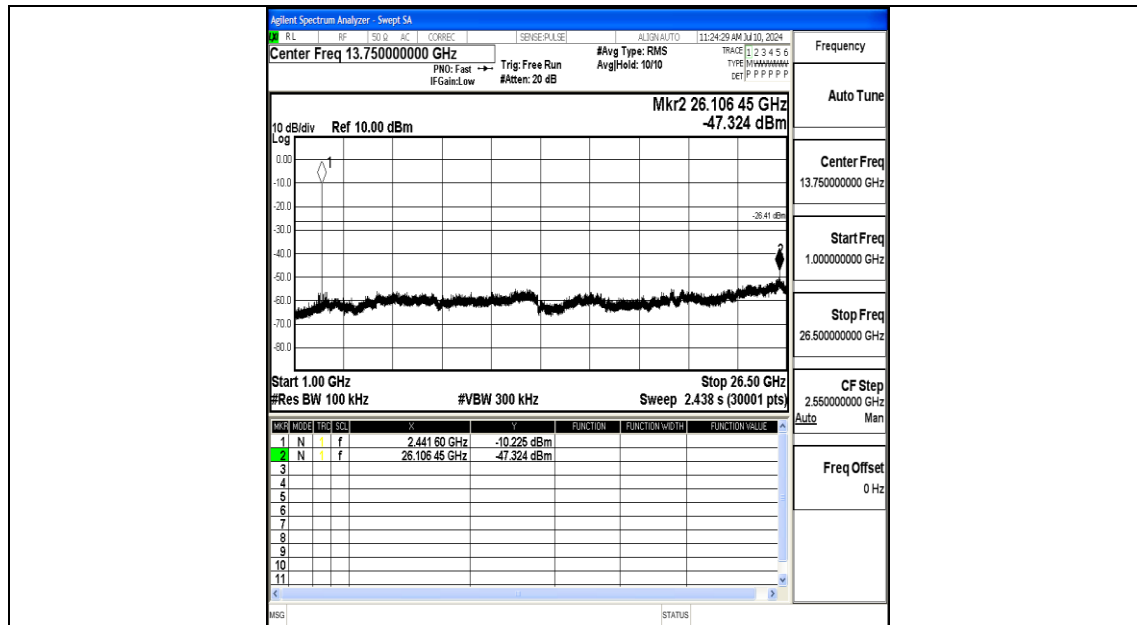
2DH5-Ant1-2402-1000~26500-PASS



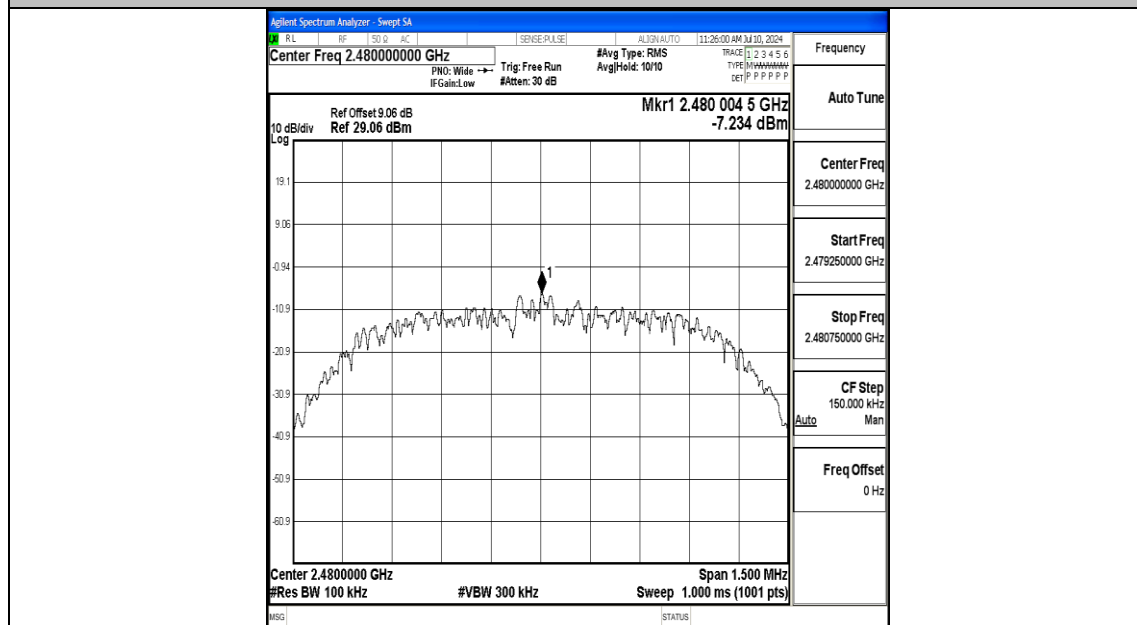
2DH5-Ant1-2441-0~Reference-PASS



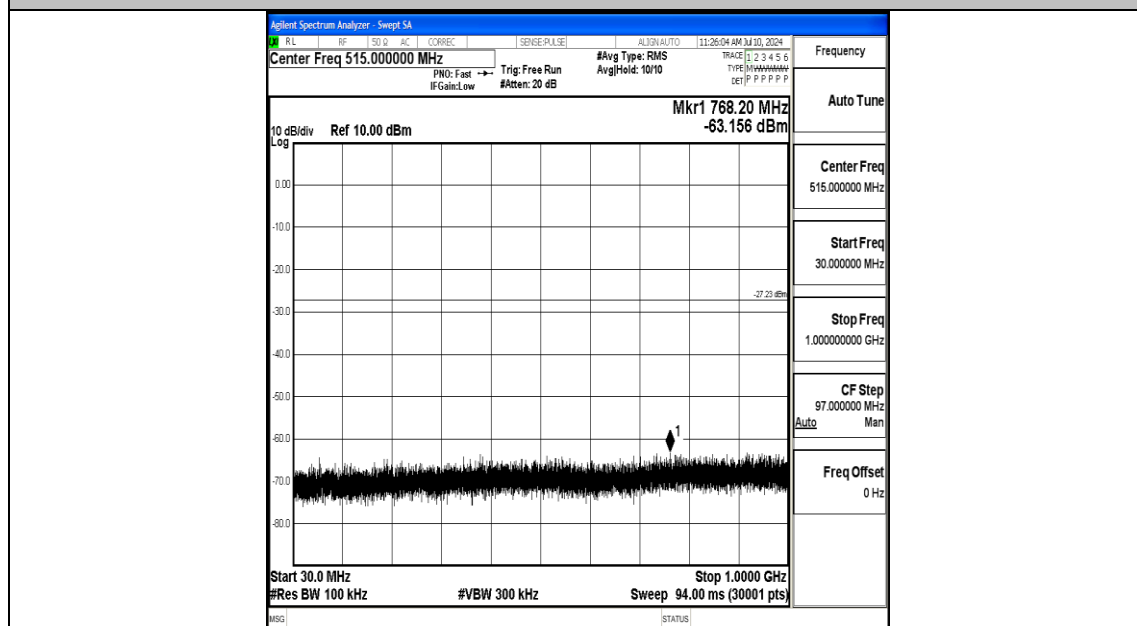
2DH5-Ant1-2441-30~1000-PASS



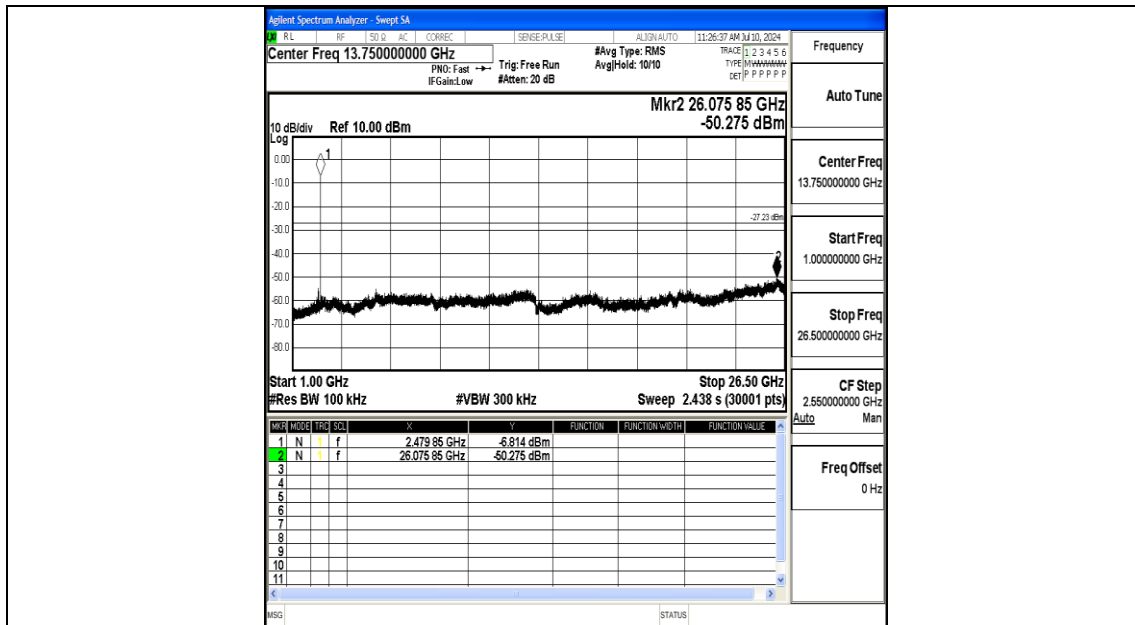
2DH5-Ant1-2441-1000~26500-PASS



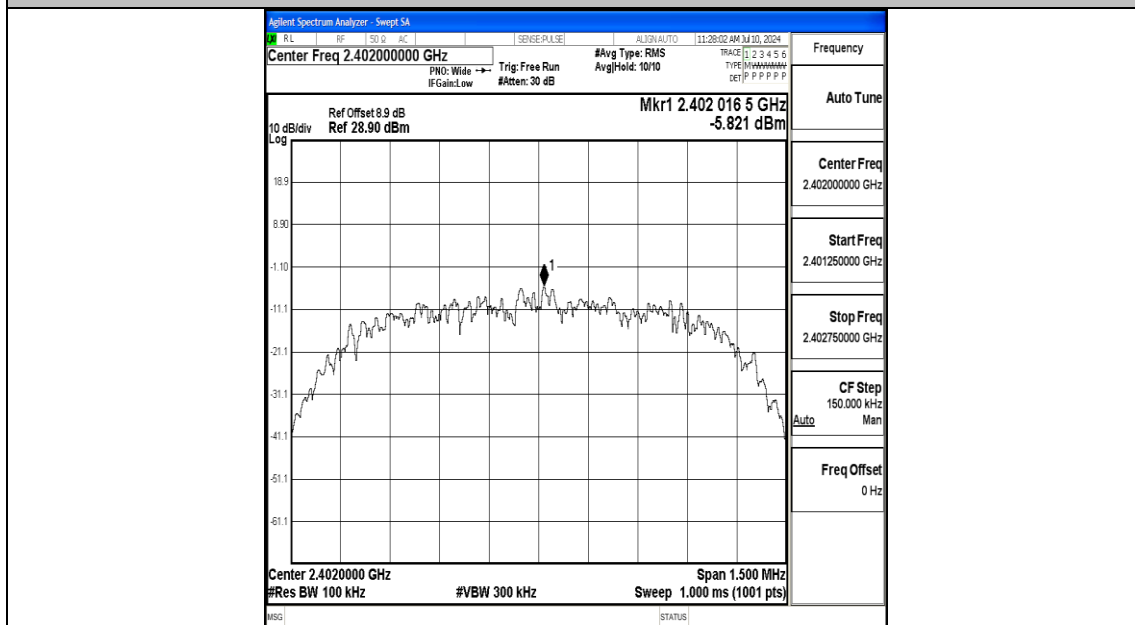
2DH5-Ant1-2480-0~Reference-PASS



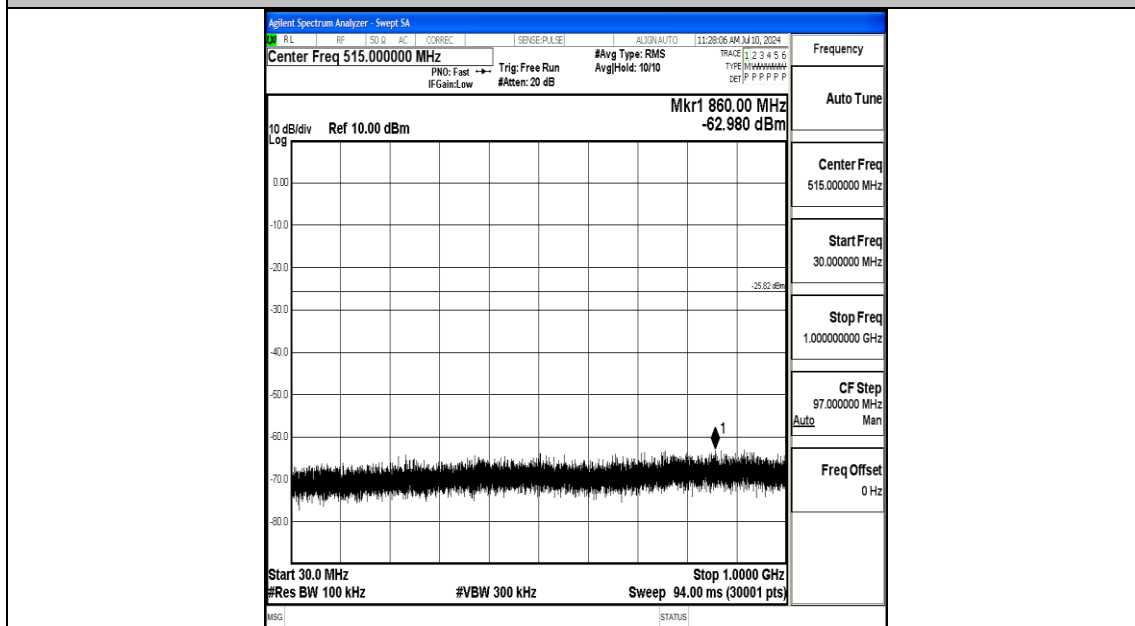
2DH5-Ant1-2480-30~1000-PASS



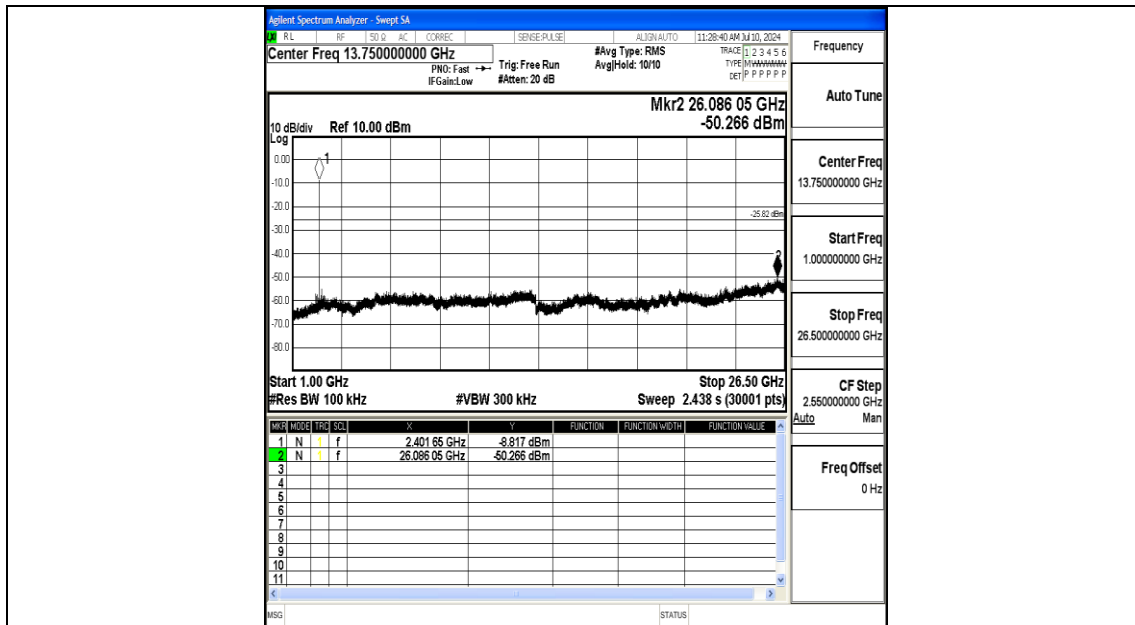
2DH5-Ant1-2480-1000~26500-PASS



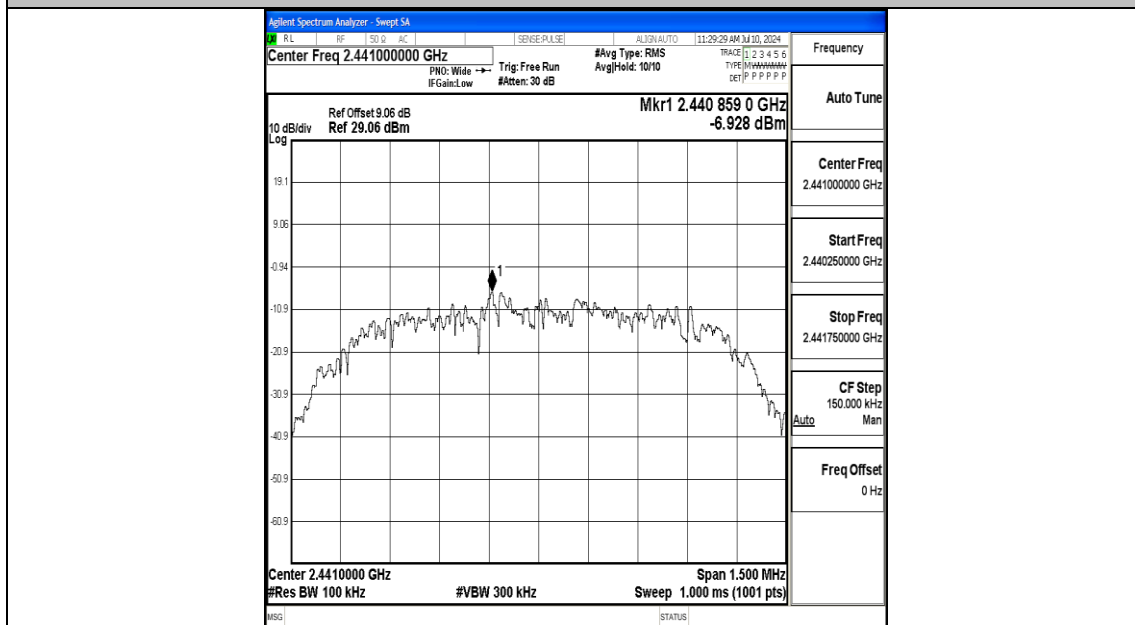
3DH5-Ant1-2402-0~Reference-PASS



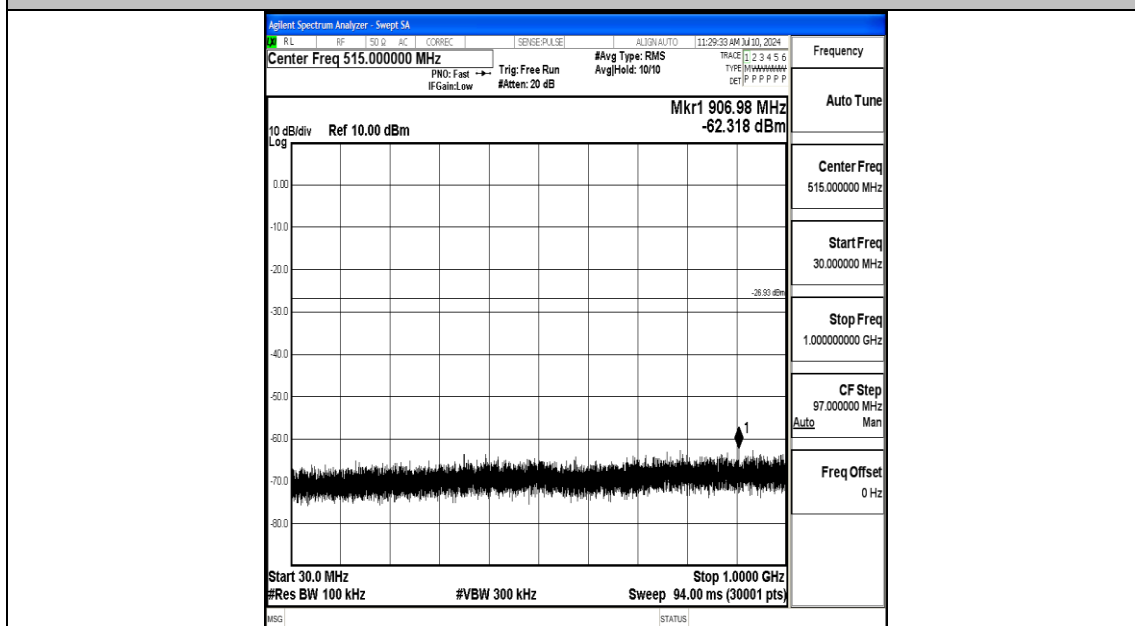
3DH5-Ant1-2402-30~1000-PASS



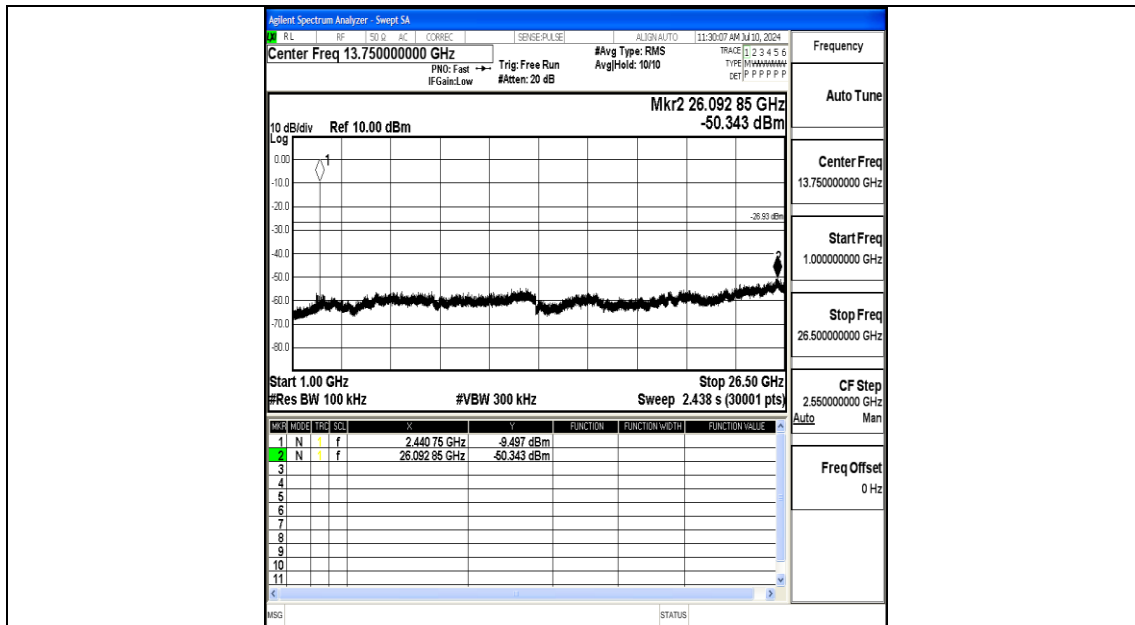
3DH5-Ant1-2402-1000~26500-PASS



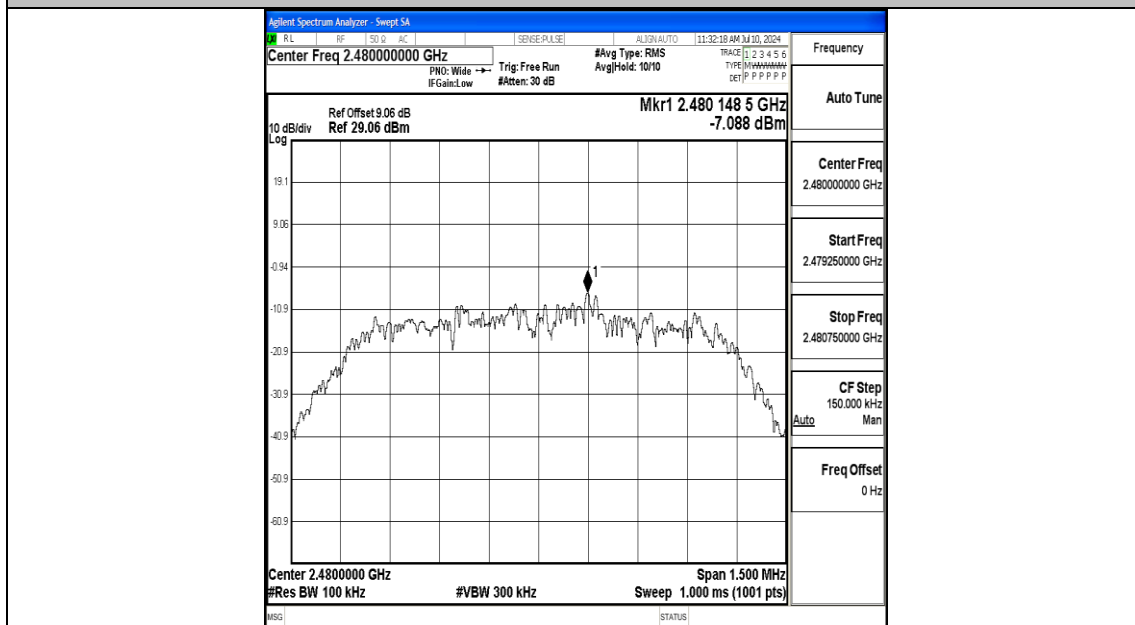
3DH5-Ant1-2441-0~Reference-PASS



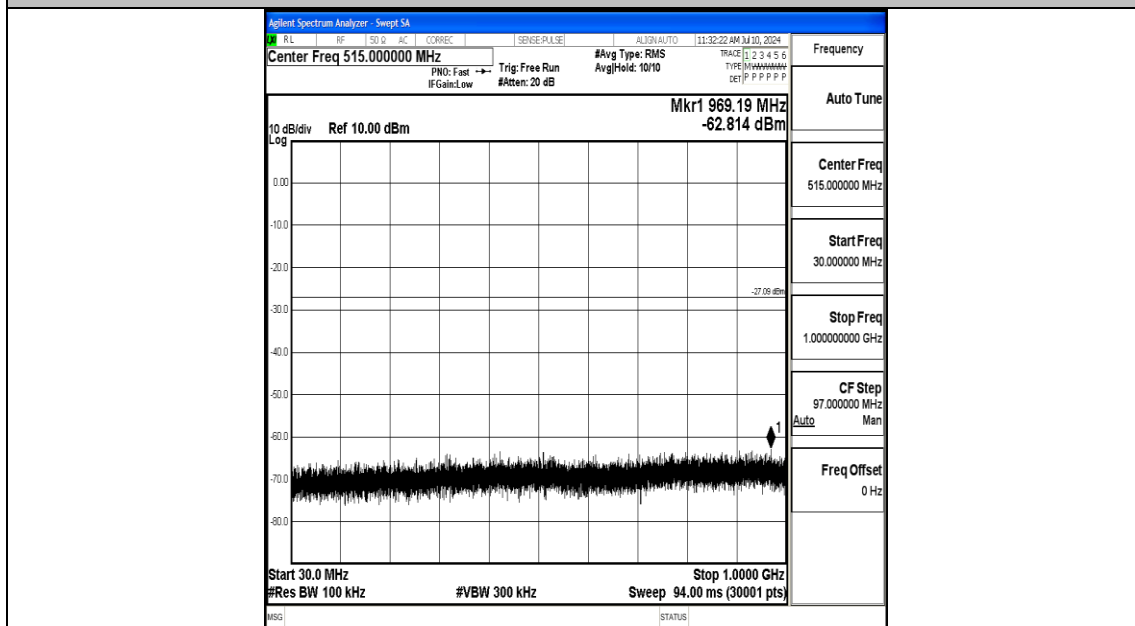
3DH5-Ant1-2441-30~1000-PASS



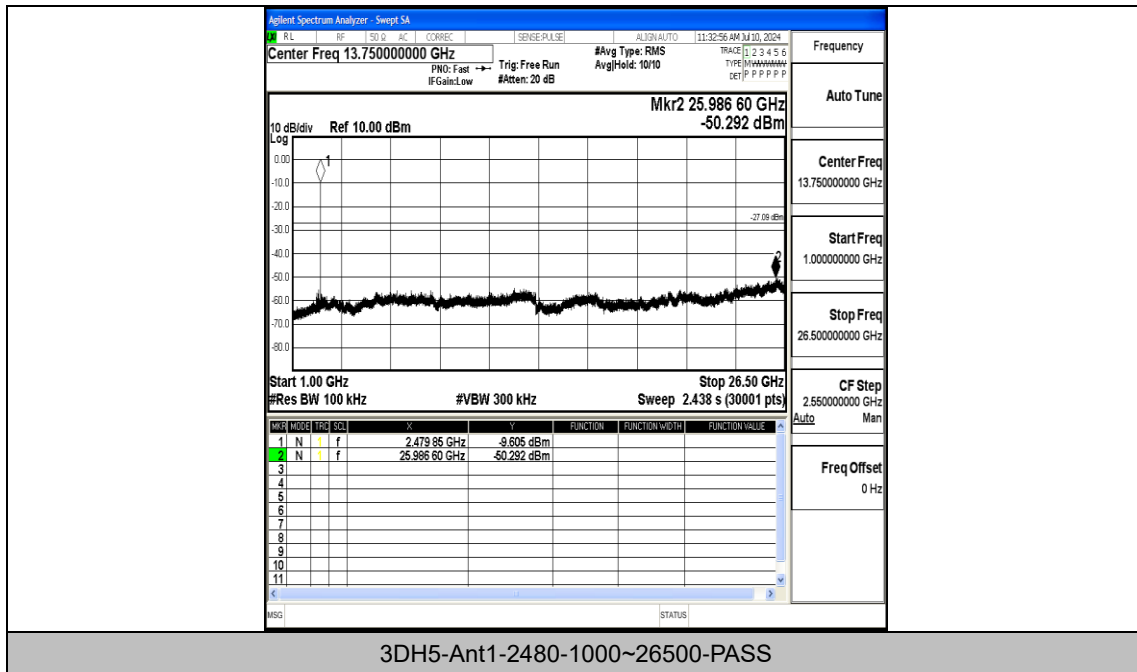
3DH5-Ant1-2441-1000~26500-PASS



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



3DH5-Ant1-2480-30~1000-PASS

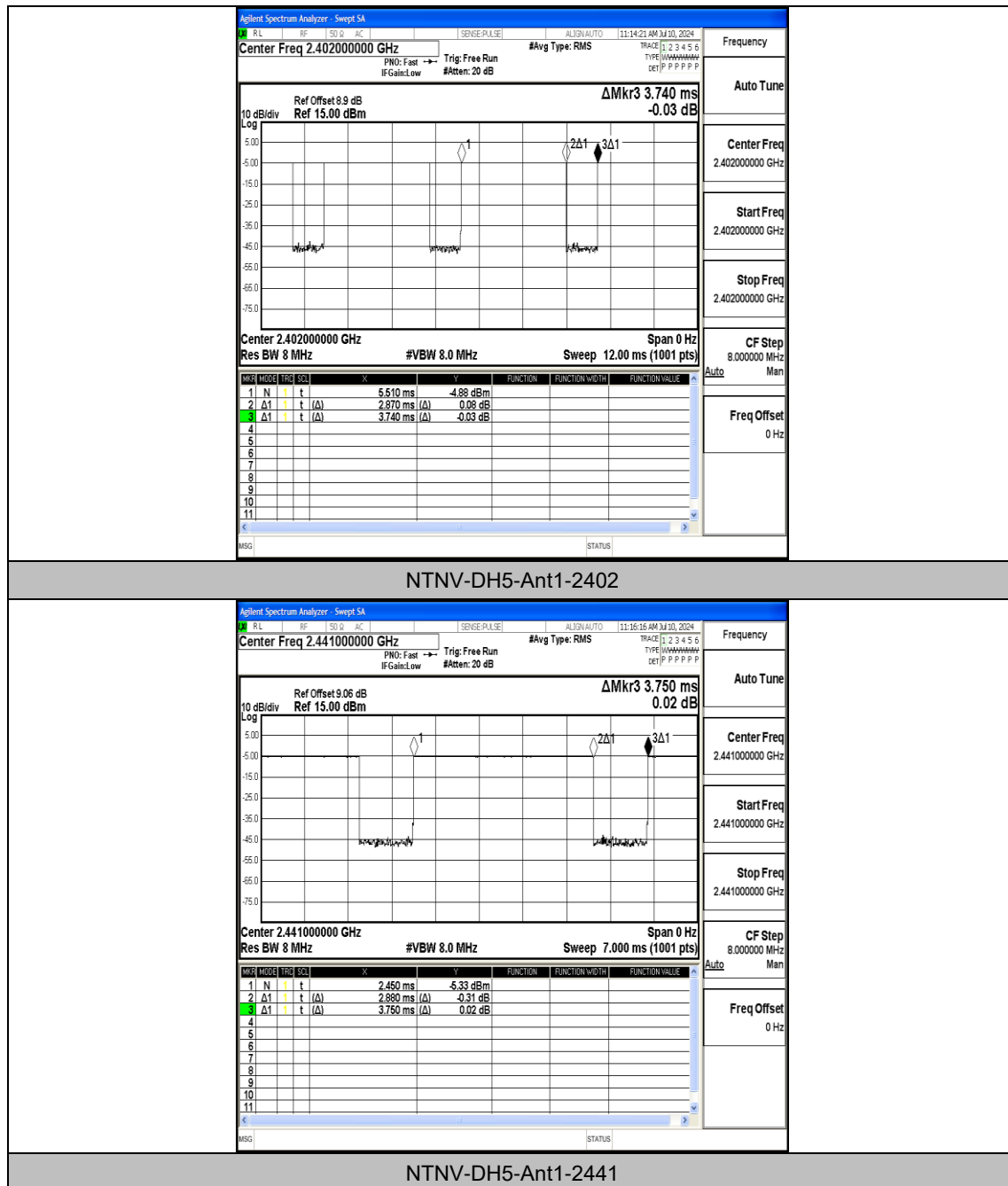


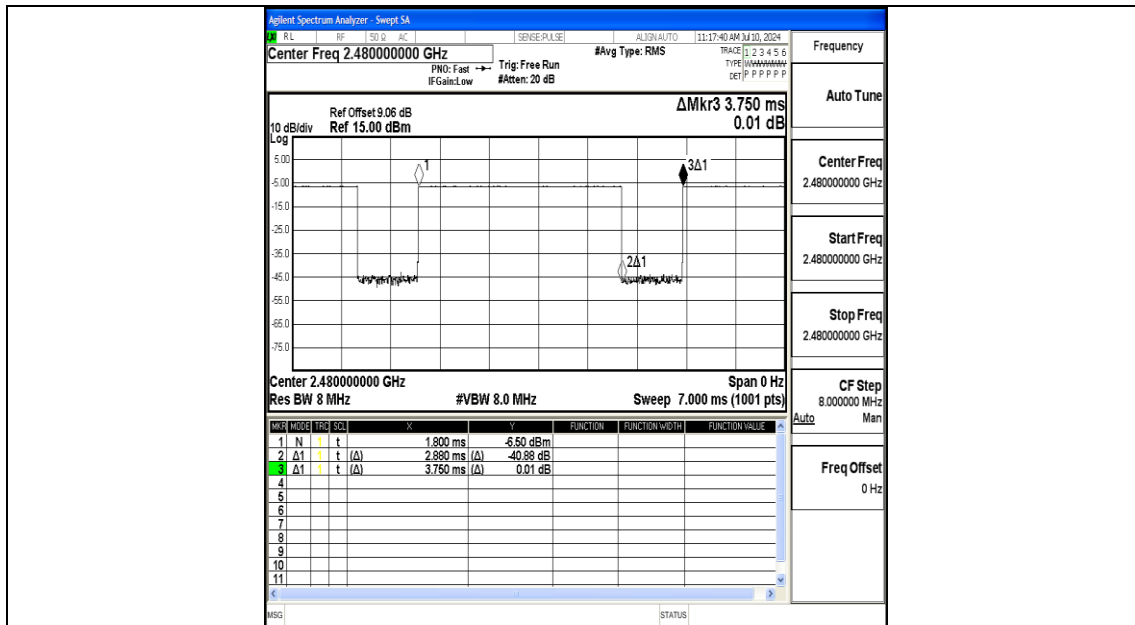
Appendix I: Duty Cycle

Test Result

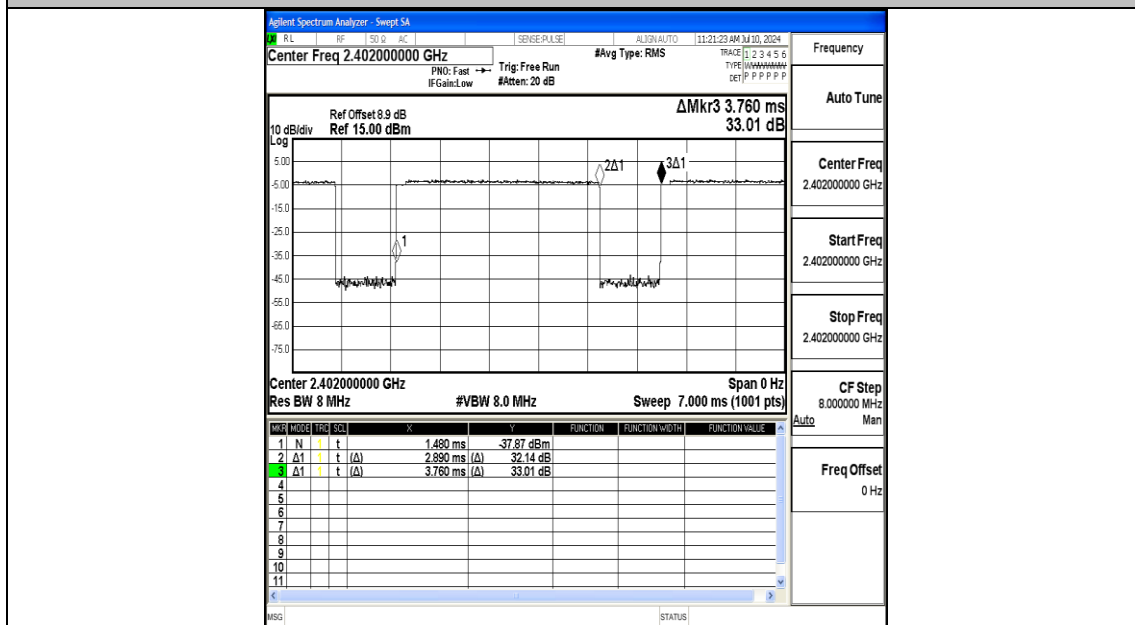
TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.87	3.74	76.74	1.15
DH5	Ant1	2441	2.88	3.75	76.80	1.15
DH5	Ant1	2480	2.88	3.75	76.80	1.15
2DH5	Ant1	2402	2.89	3.76	76.86	1.14
2DH5	Ant1	2441	2.87	3.74	76.74	1.15
2DH5	Ant1	2480	2.88	3.75	76.80	1.15
3DH5	Ant1	2402	2.89	3.75	77.07	1.13
3DH5	Ant1	2441	2.89	3.76	76.86	1.14
3DH5	Ant1	2480	2.88	3.75	76.80	1.15

Test Graphs

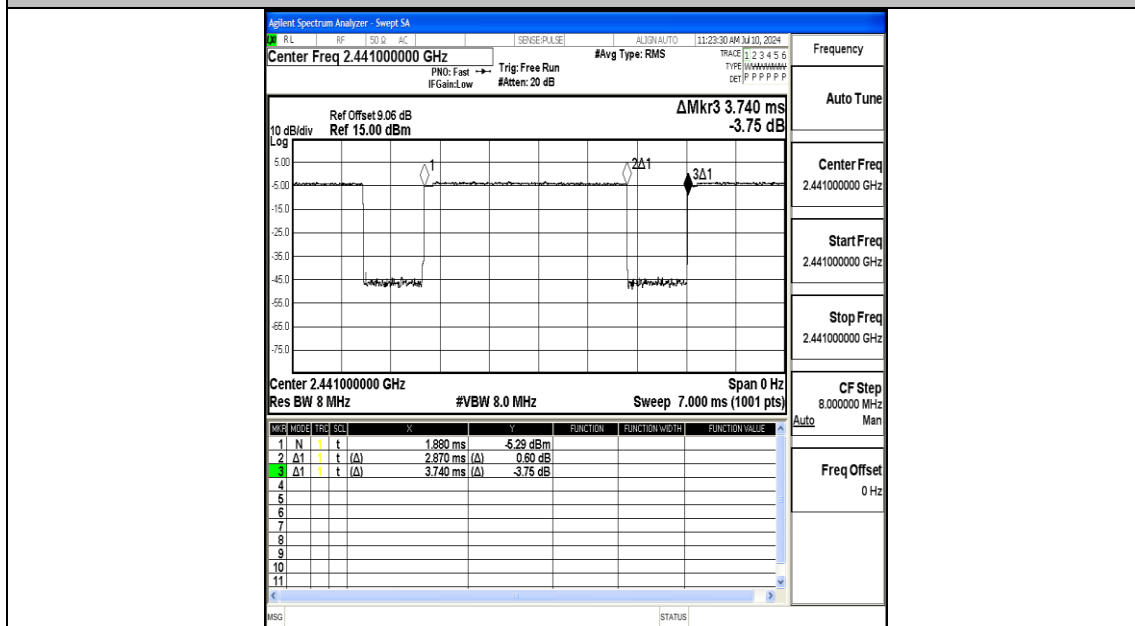




NTNV-DH5-Ant1-2480



NTNV-2DH5-Ant1-2402



NTNV-2DH5-Ant1-2441

