

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

Product Name: Wireless Headphone
 Trade Mark: Altec lansing, Staples, Vivitar
 Test Model: MZX3007
 FCC ID: 2AL9B-MZX3007

Environmental Conditions

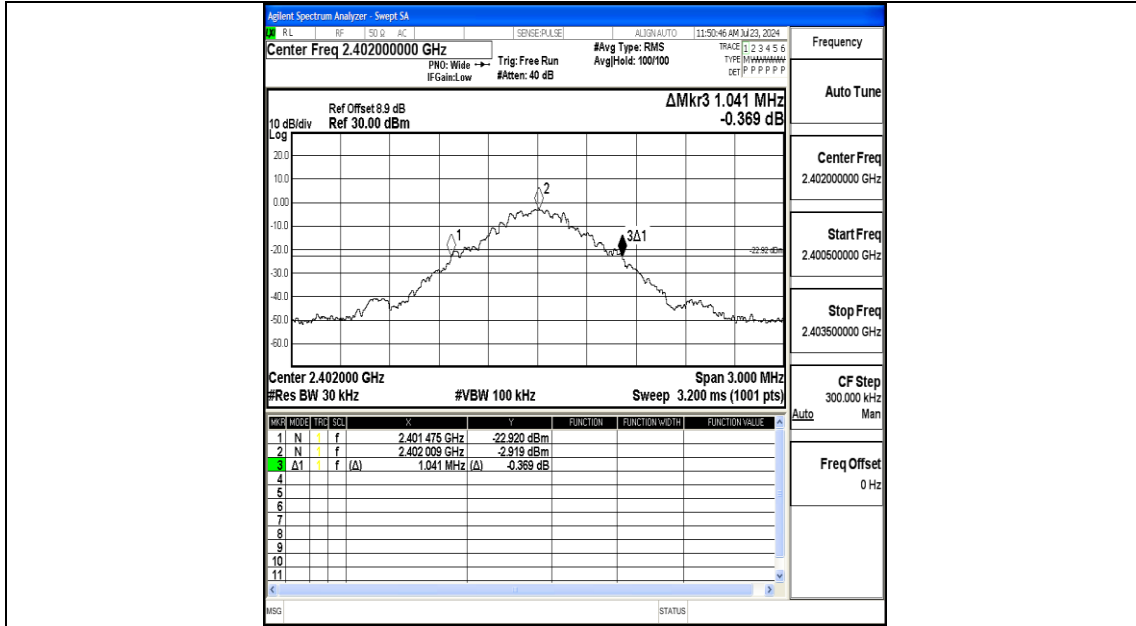
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: 20dB Emission Bandwidth

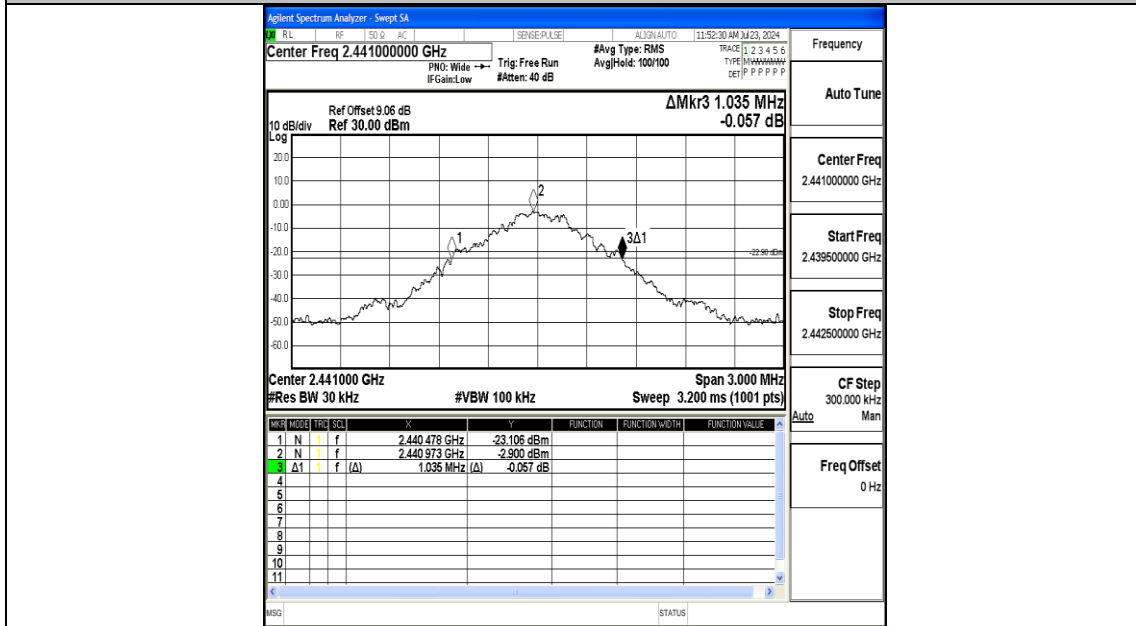
Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.041	2401.475	2402.516	---	---
DH5	Ant1	2441	1.035	2440.478	2441.513	---	---
DH5	Ant1	2480	1.059	2479.463	2480.522	---	---
2DH5	Ant1	2402	1.293	2401.367	2402.660	---	---
2DH5	Ant1	2441	1.329	2440.340	2441.669	---	---
2DH5	Ant1	2480	1.362	2479.325	2480.687	---	---

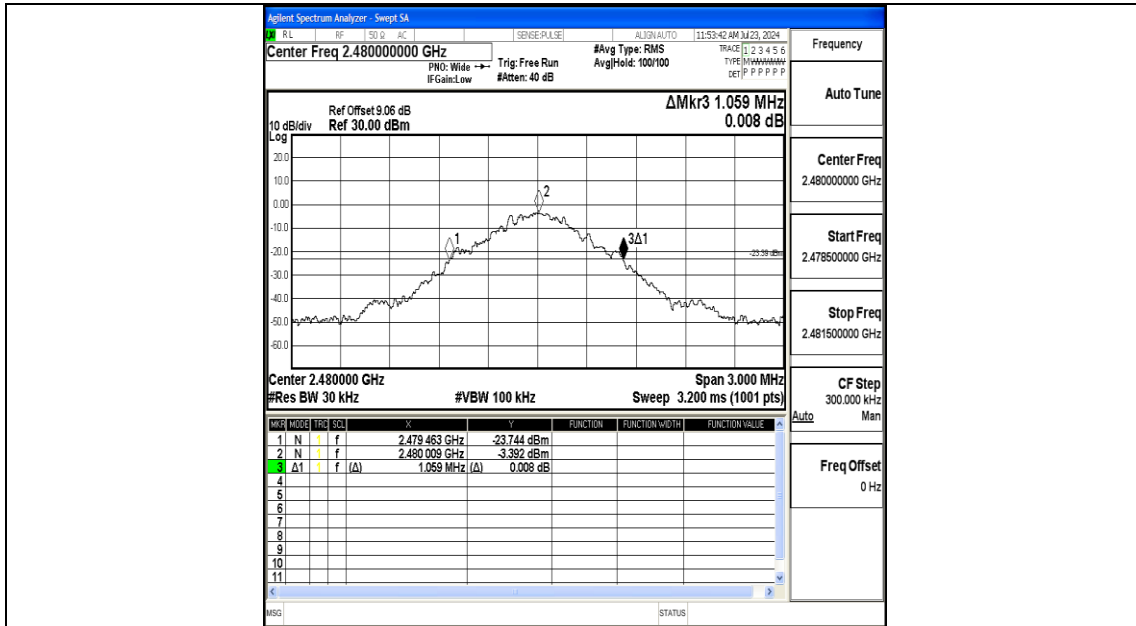
Test Graphs



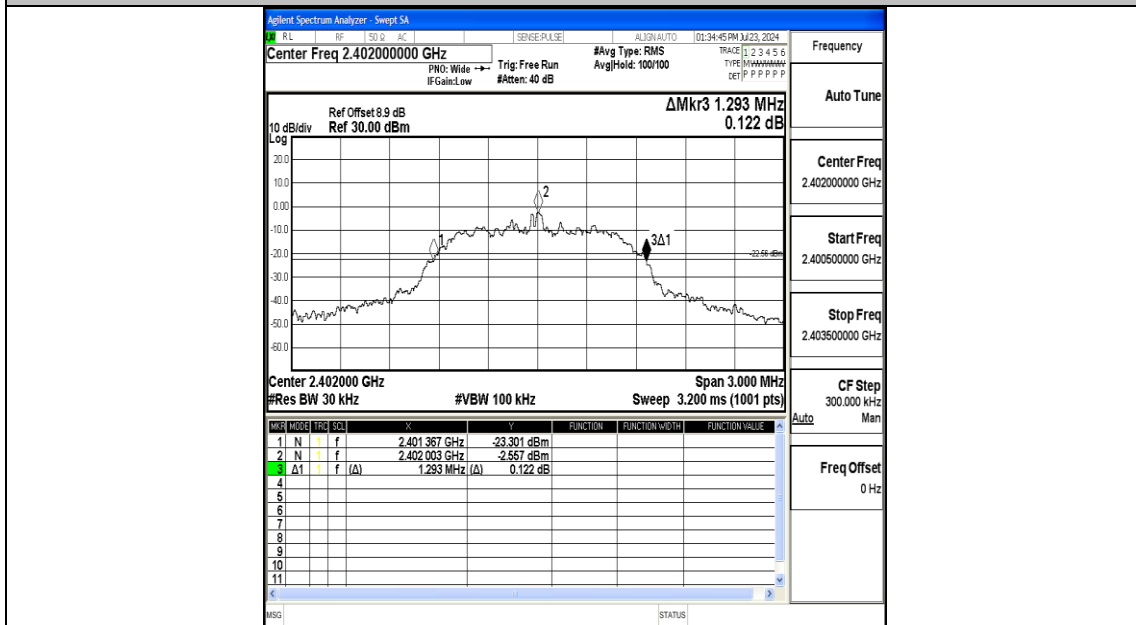
DH5-Ant1-2402



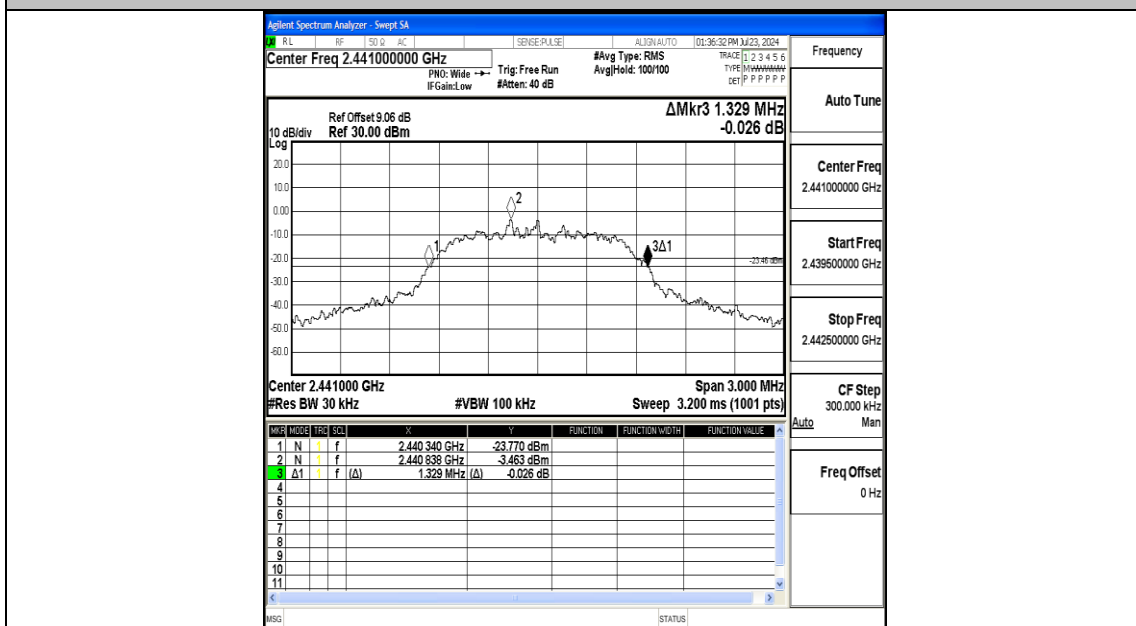
DH5-Ant1-2441



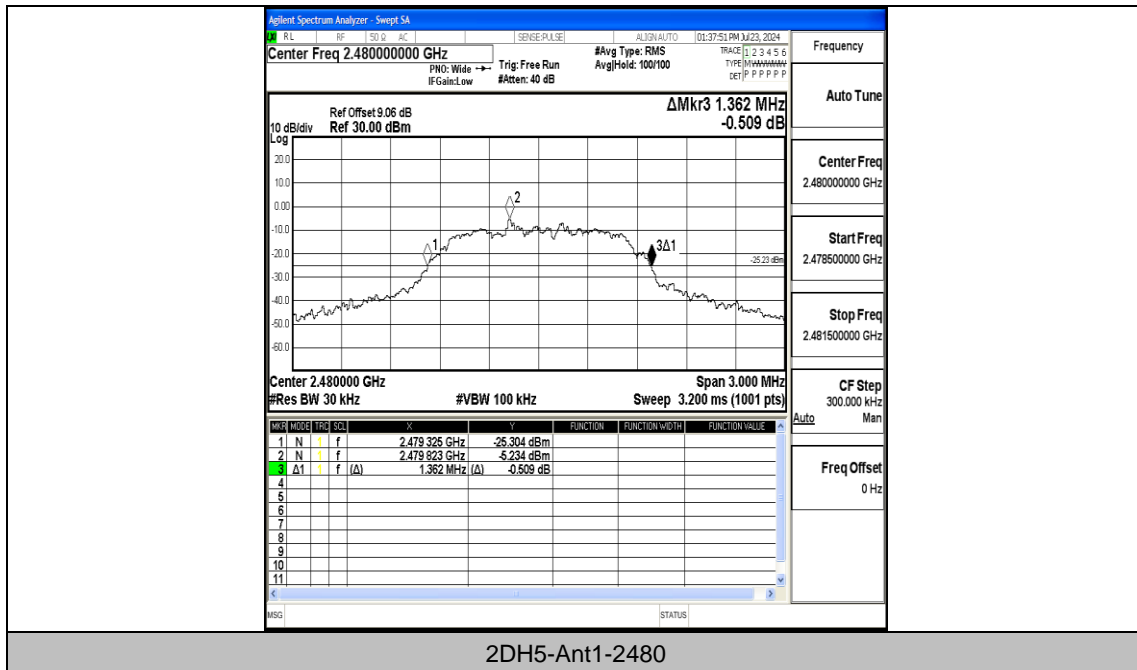
DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441

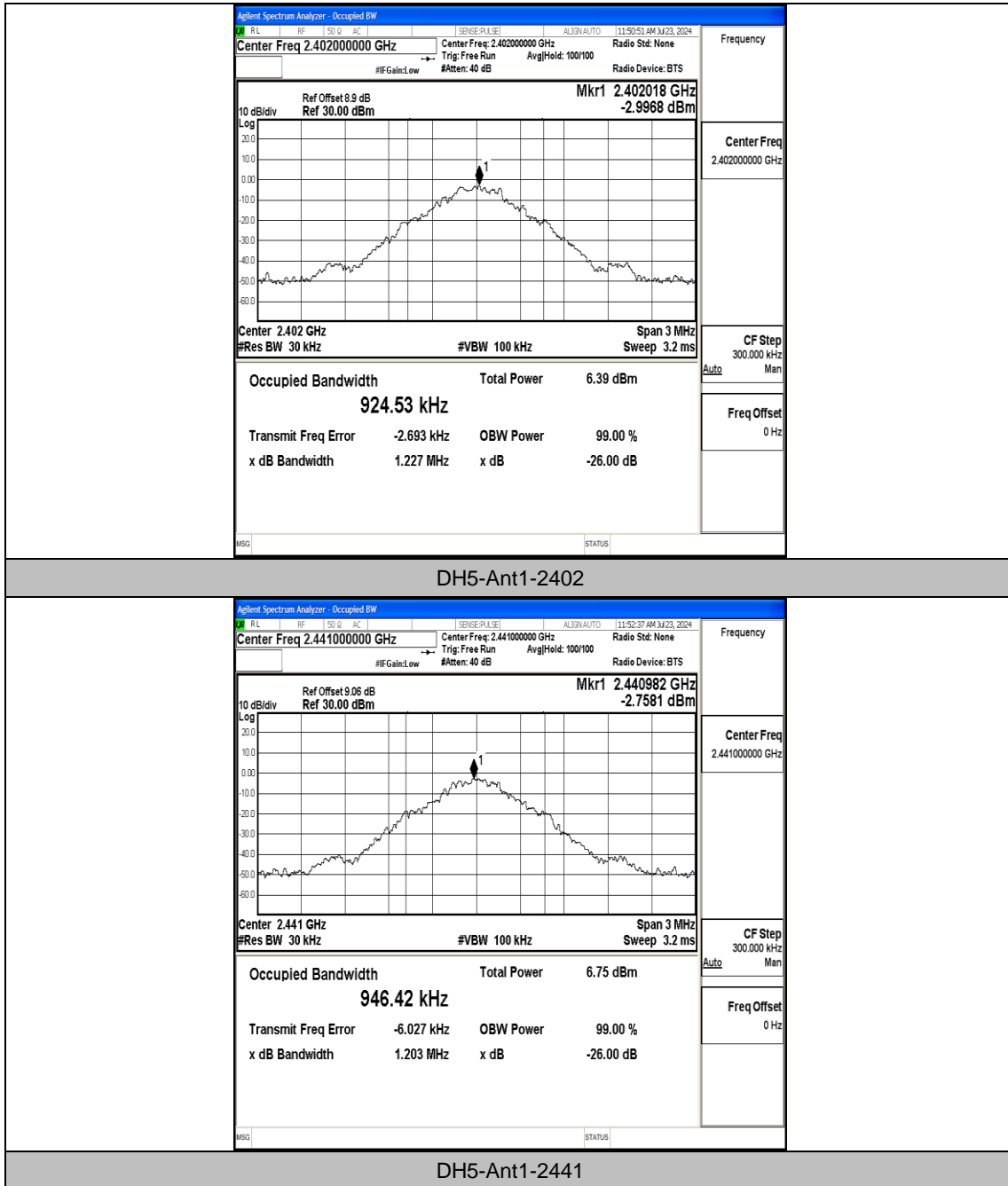


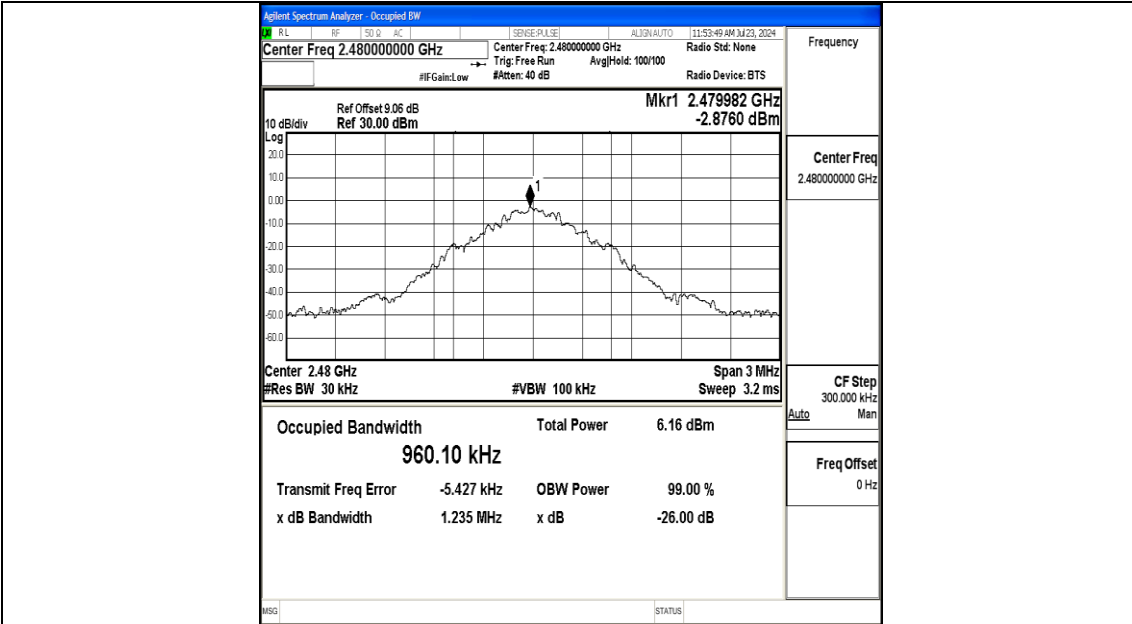
Appendix B: Occupied Channel Bandwidth

Test Result

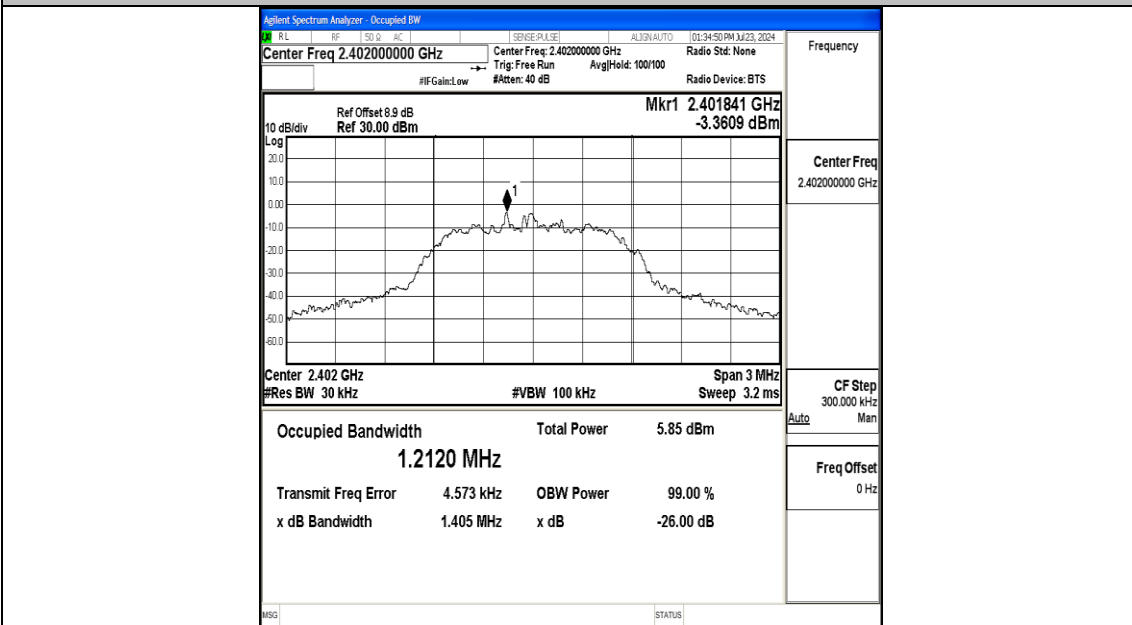
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.92453	2401.5350	2402.4596	---	---
DH5	Ant1	2441	0.94642	2440.5208	2441.4672	---	---
DH5	Ant1	2480	0.96010	2479.5145	2480.4746	---	---
2DH5	Ant1	2402	1.2120	2401.3986	2402.6106	---	---
2DH5	Ant1	2441	1.2237	2440.3957	2441.6194	---	---
2DH5	Ant1	2480	1.2438	2479.3848	2480.6286	---	---

Test Graphs

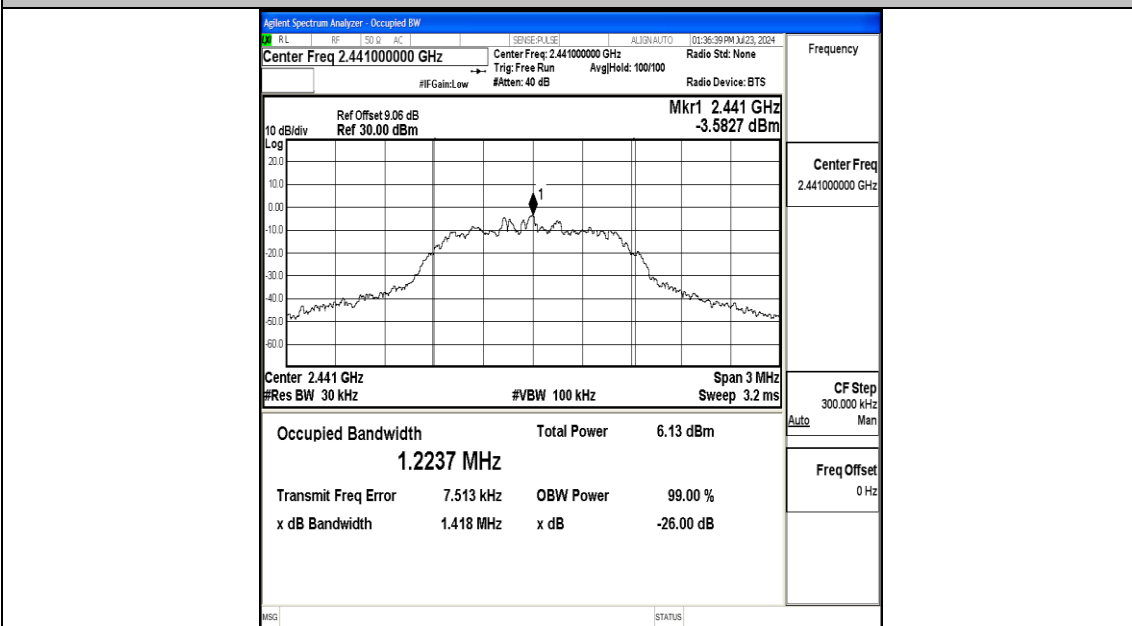




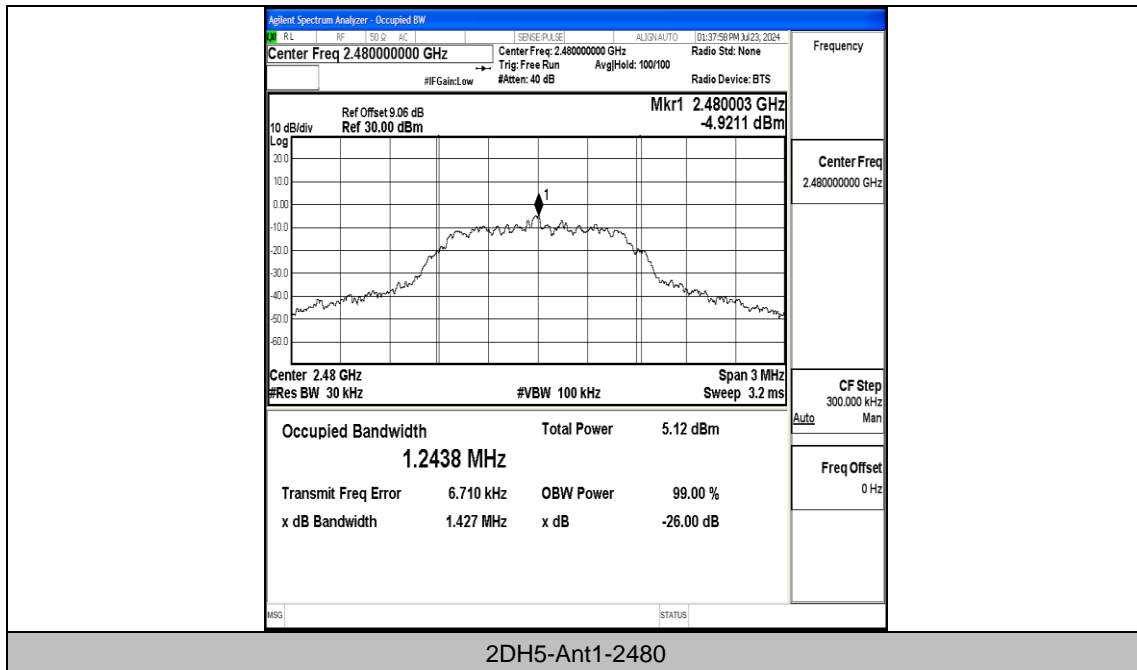
DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441

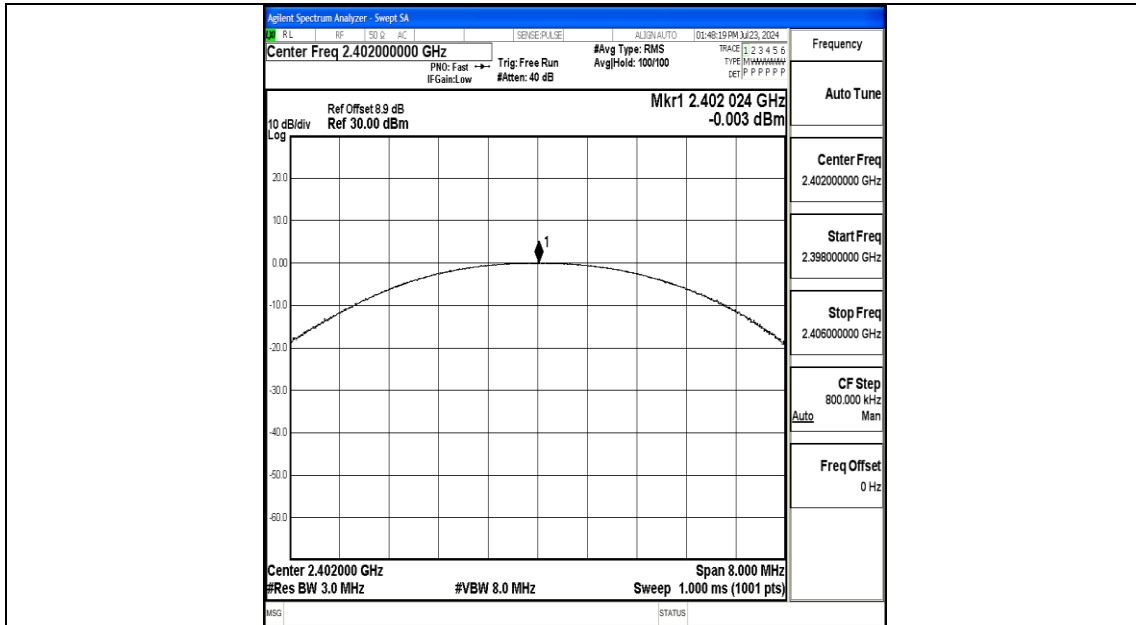


Appendix C: Maximum peak conducted output power

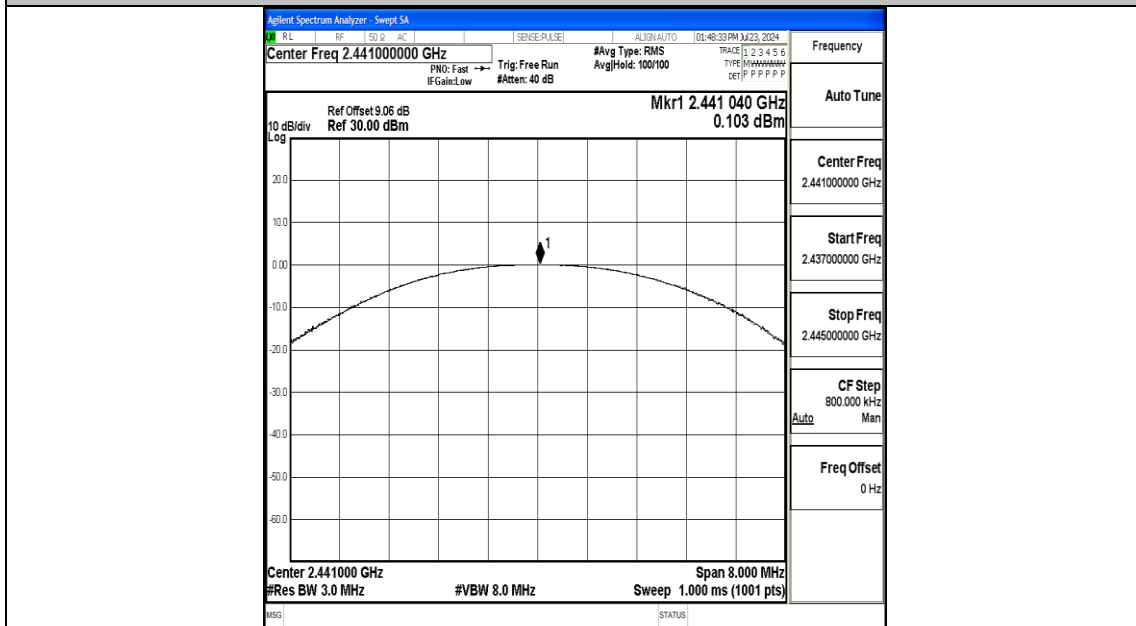
Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.00	≤20.97	PASS
DH5	Ant1	2441	0.10	≤20.97	PASS
DH5	Ant1	2480	-0.35	≤20.97	PASS
2DH5	Ant1	2402	0.73	≤20.97	PASS
2DH5	Ant1	2441	0.92	≤20.97	PASS
2DH5	Ant1	2480	0.49	≤20.97	PASS

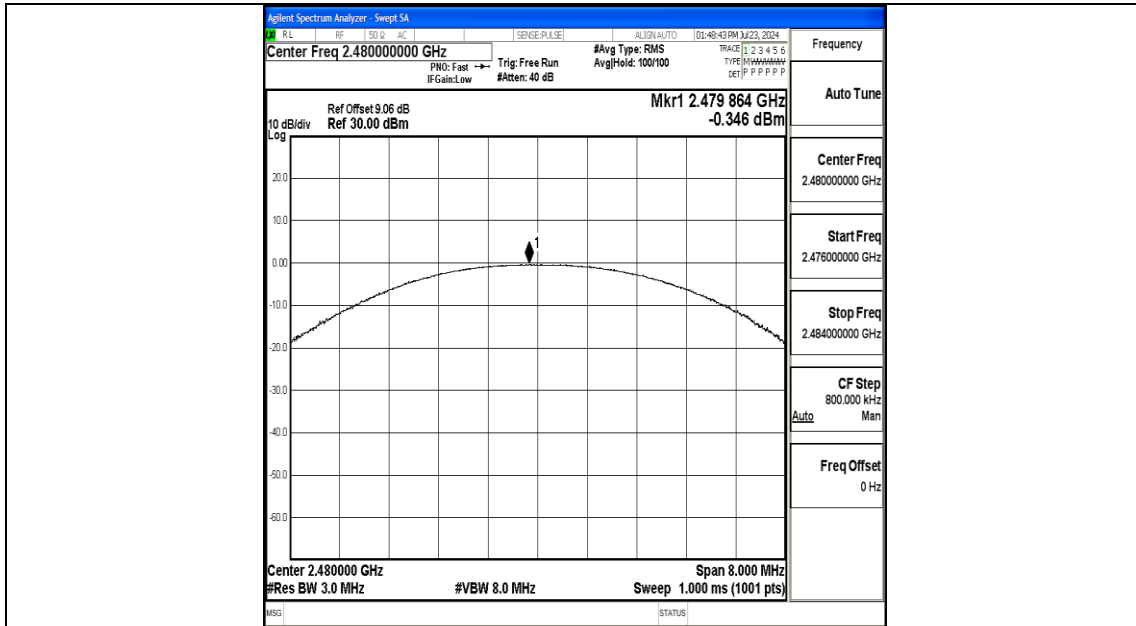
Test Graphs



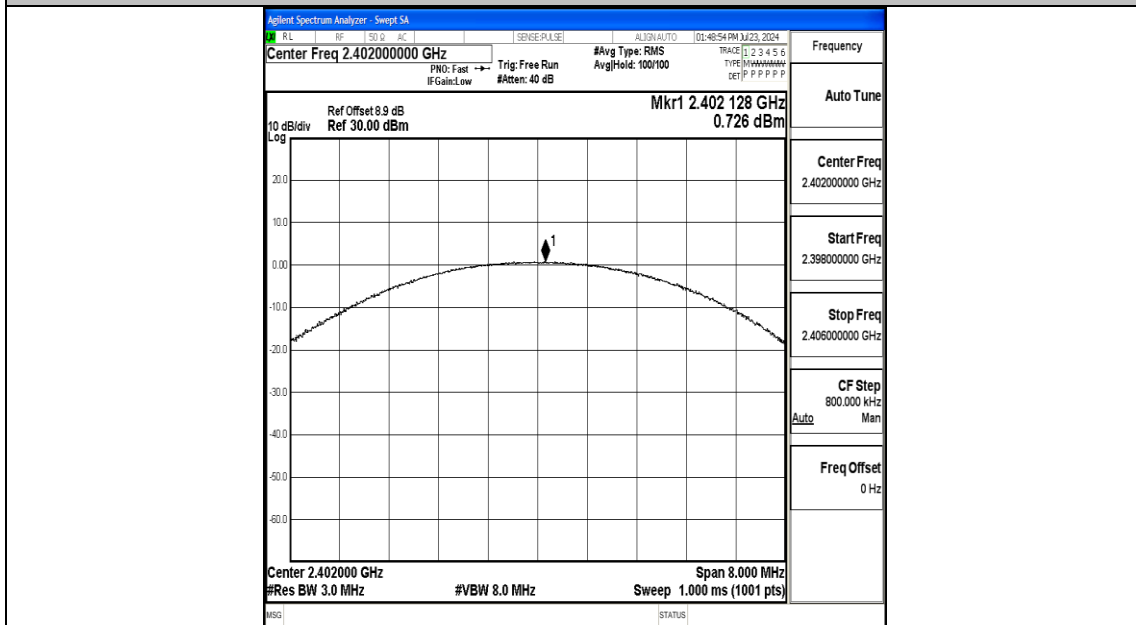
DH5-Ant1-2402-PASS



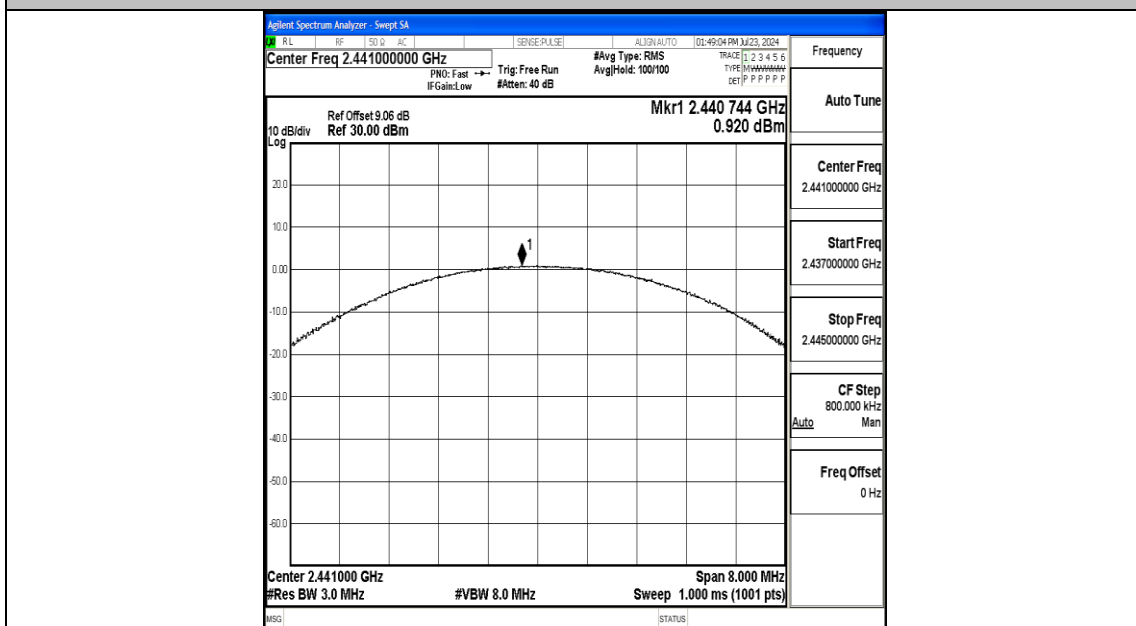
DH5-Ant1-2441-PASS



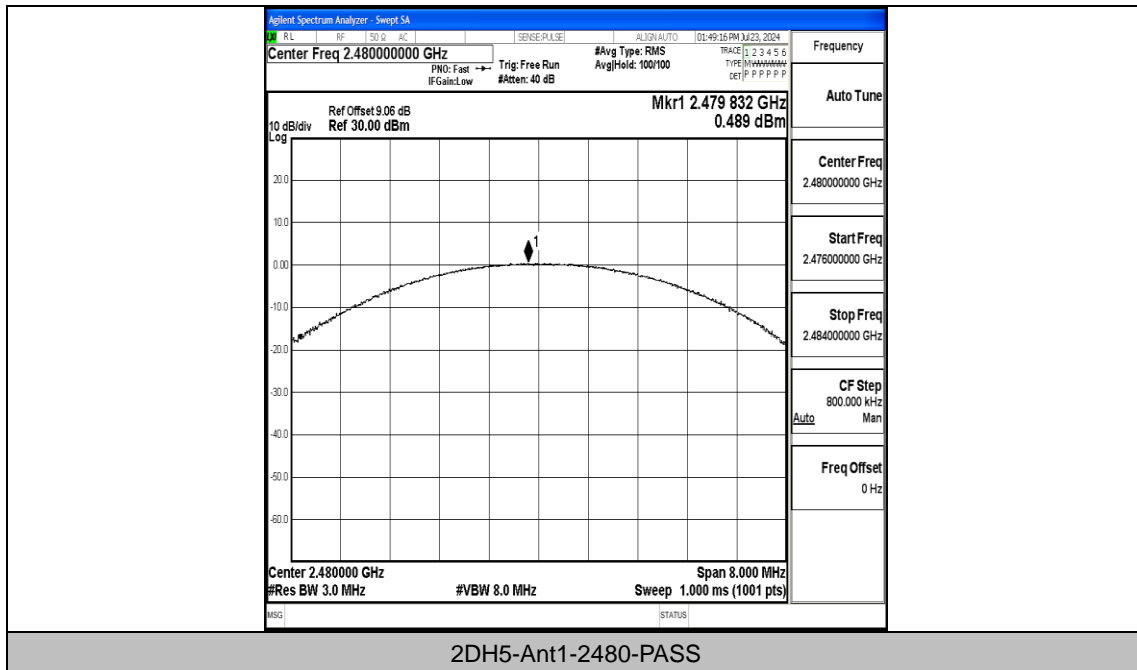
DH5-Ant1-2480-PASS



2DH5-Ant1-2402-PASS



2DH5-Ant1-2441-PASS

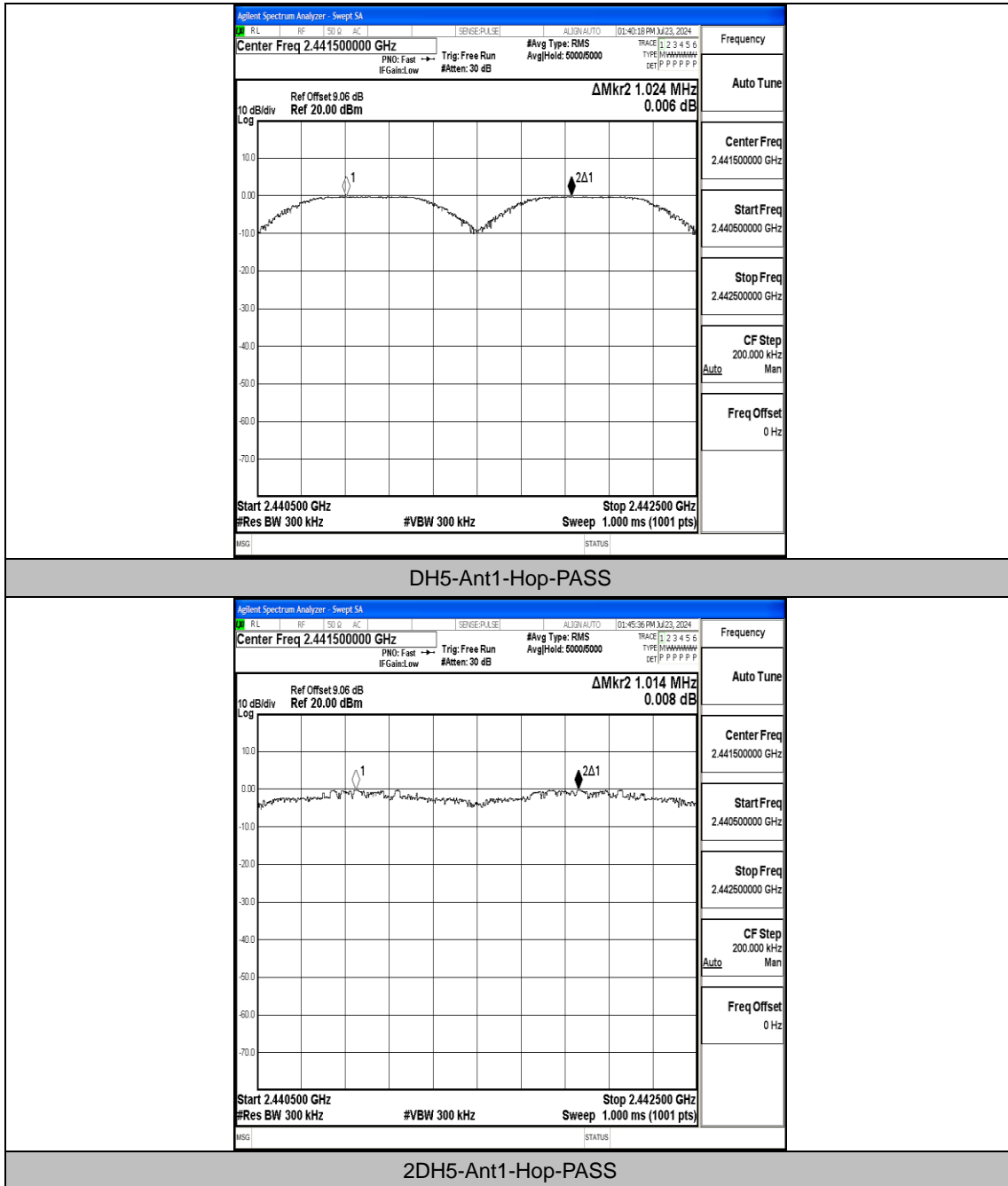


Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.024	≥ 0.706	PASS
2DH5	Ant1	Hop	1.014	≥ 0.908	PASS

Test Graphs

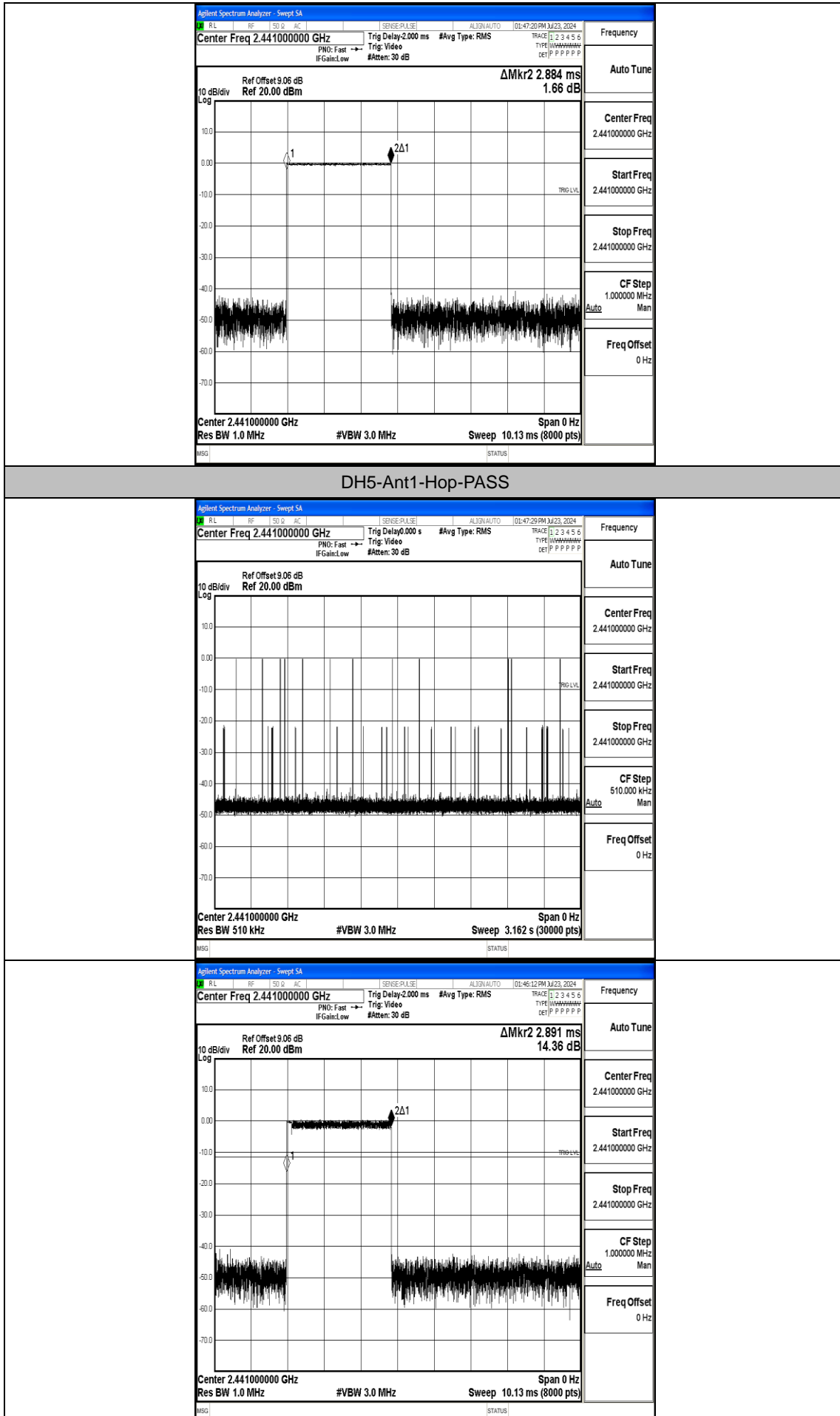


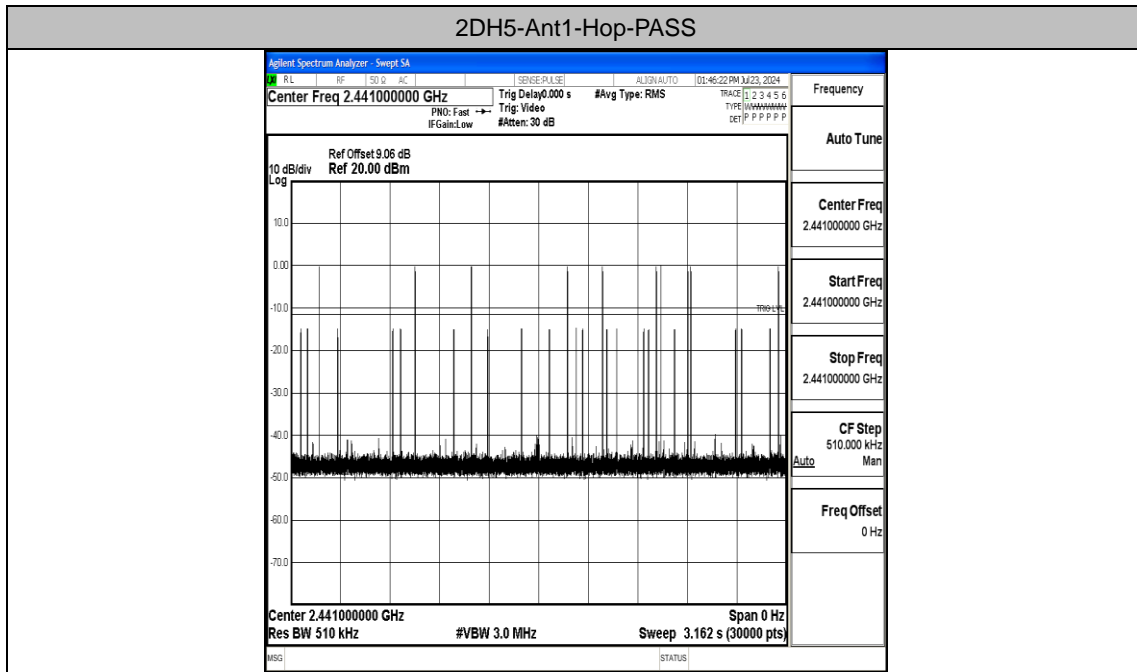
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.884	130	0.375	≤0.4	PASS
2DH5	Ant1	Hop	2.891	110	0.318	≤0.4	PASS

Test Graphs



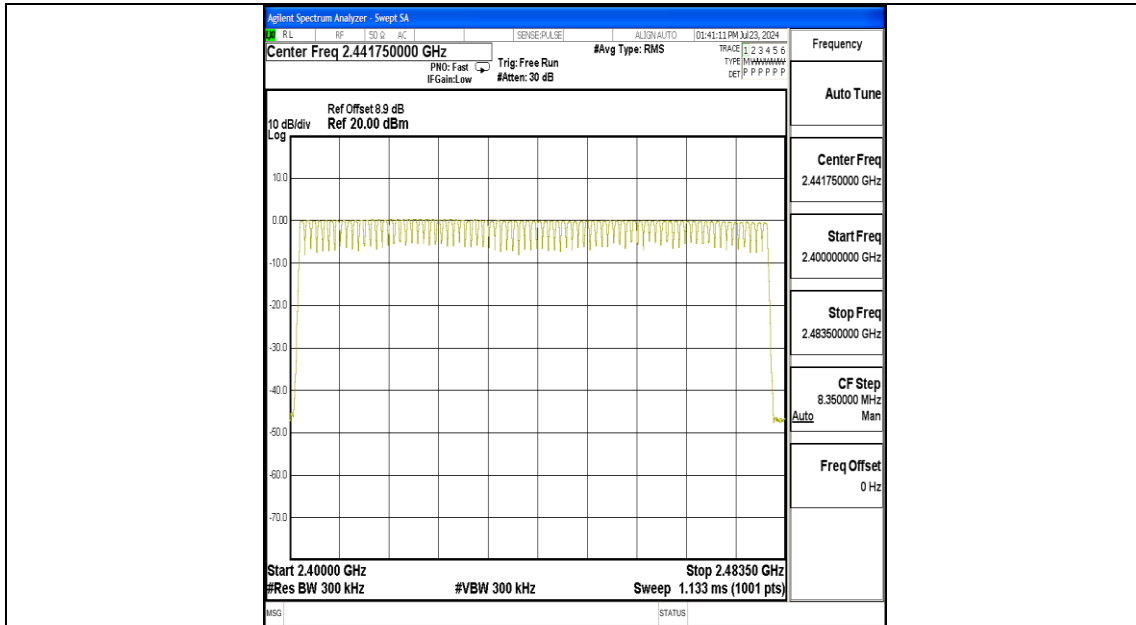


Appendix F: Number of hopping channels

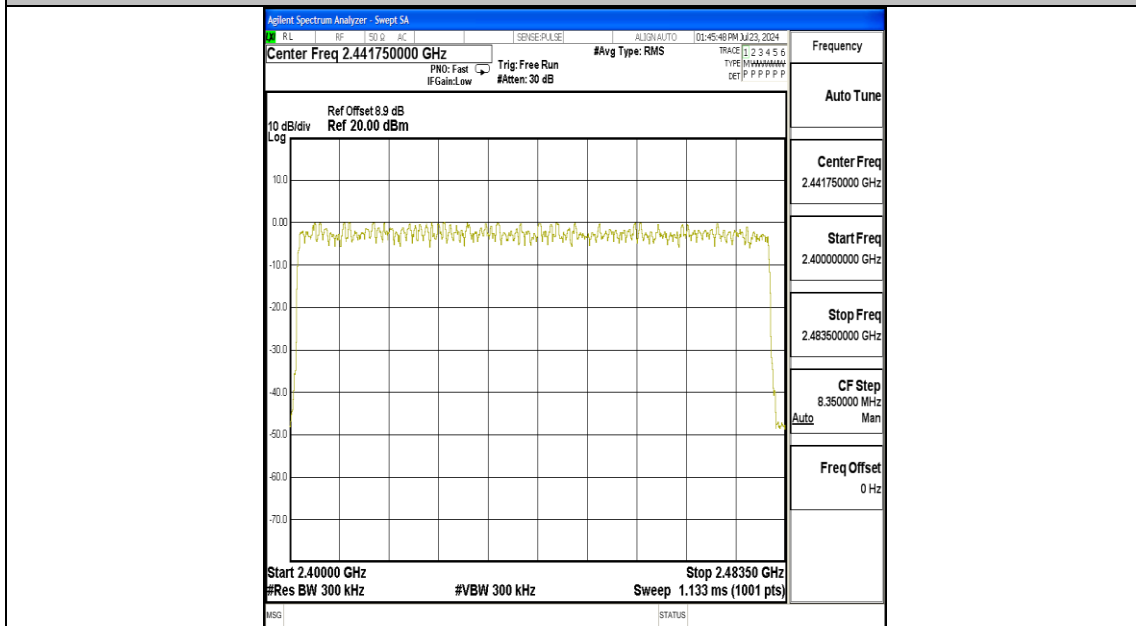
Test Result

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

Test Graphs



DH5-Ant1-Hop-PASS



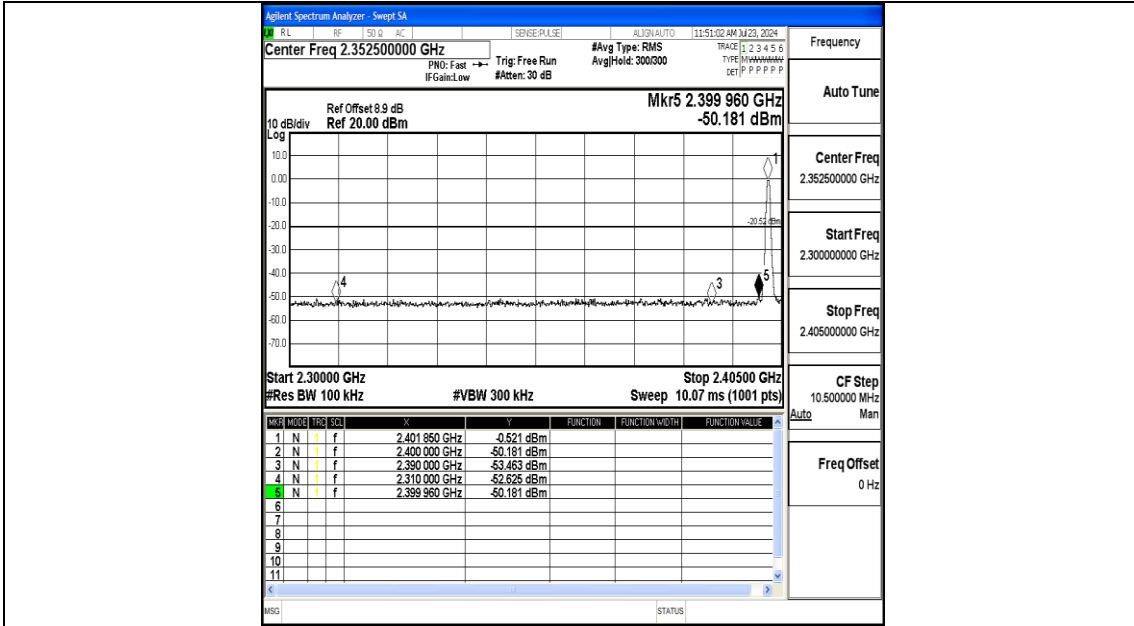
2DH5-Ant1-Hop-PASS

Appendix G: Band edge measurements

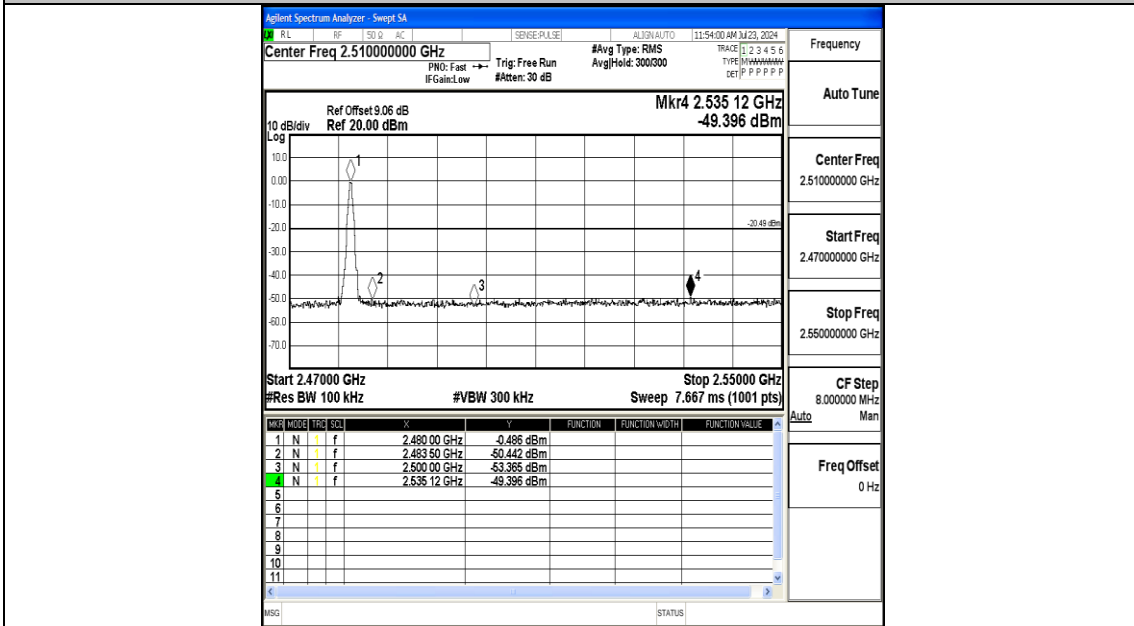
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.52	-50.18	≤-20.52	PASS
DH5	Ant1	High	2480	-0.49	-49.4	≤-20.49	PASS
DH5	Ant1	Low	Hop_2402	-1.47	-43.01	≤-21.47	PASS
DH5	Ant1	High	Hop_2480	-1.20	-41.08	≤-21.2	PASS
2DH5	Ant1	Low	2402	-0.42	-46.96	≤-20.42	PASS
2DH5	Ant1	High	2480	-0.84	-49.33	≤-20.84	PASS
2DH5	Ant1	Low	Hop_2402	-4.07	-46.42	≤-24.07	PASS
2DH5	Ant1	High	Hop_2480	-0.89	-44.99	≤-20.89	PASS

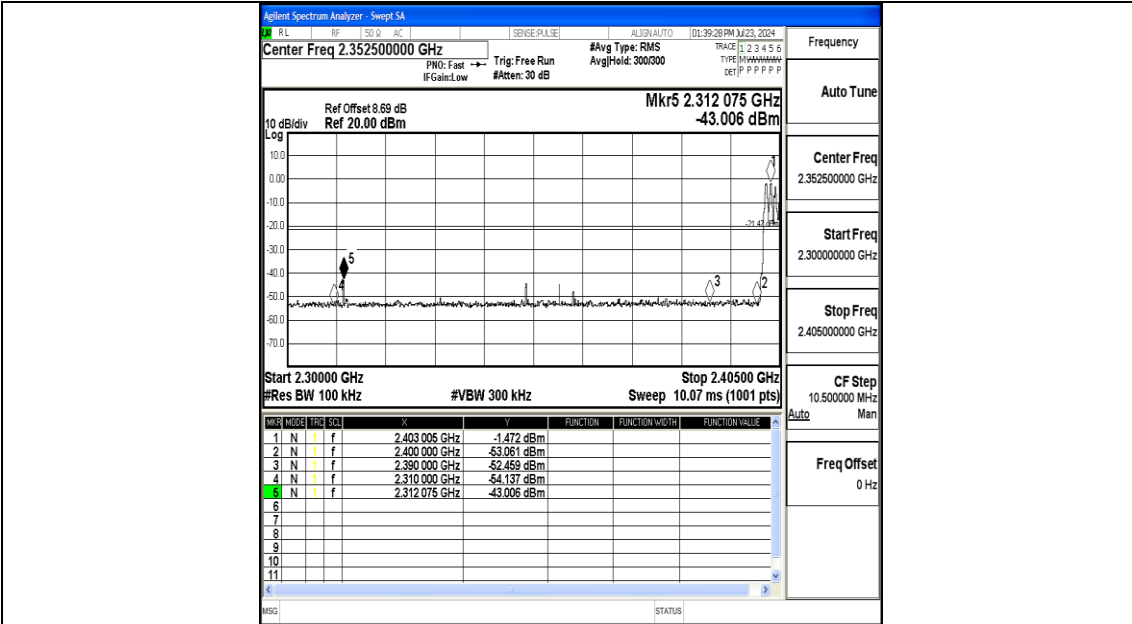
Test Graphs



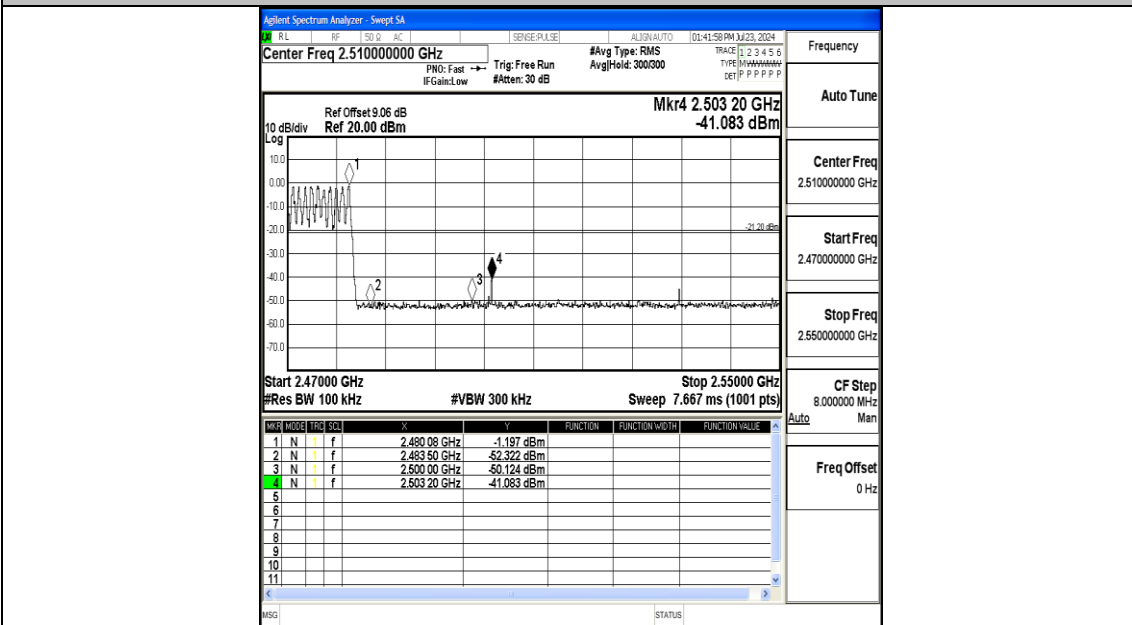
DH5-Ant1-2402-PASS



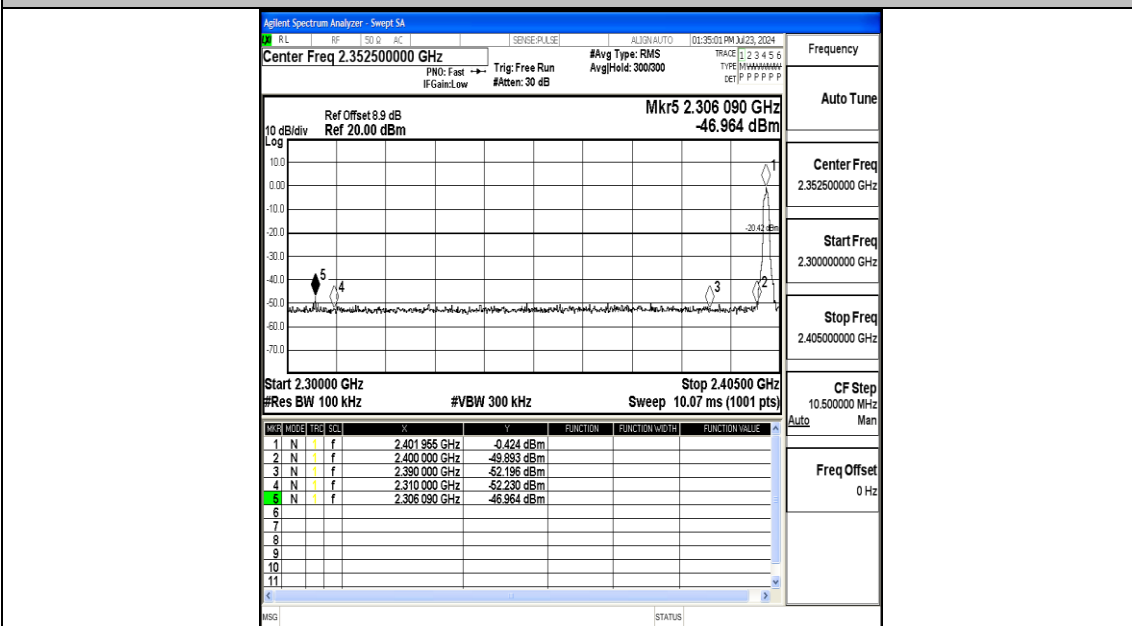
DH5-Ant1-2480-PASS



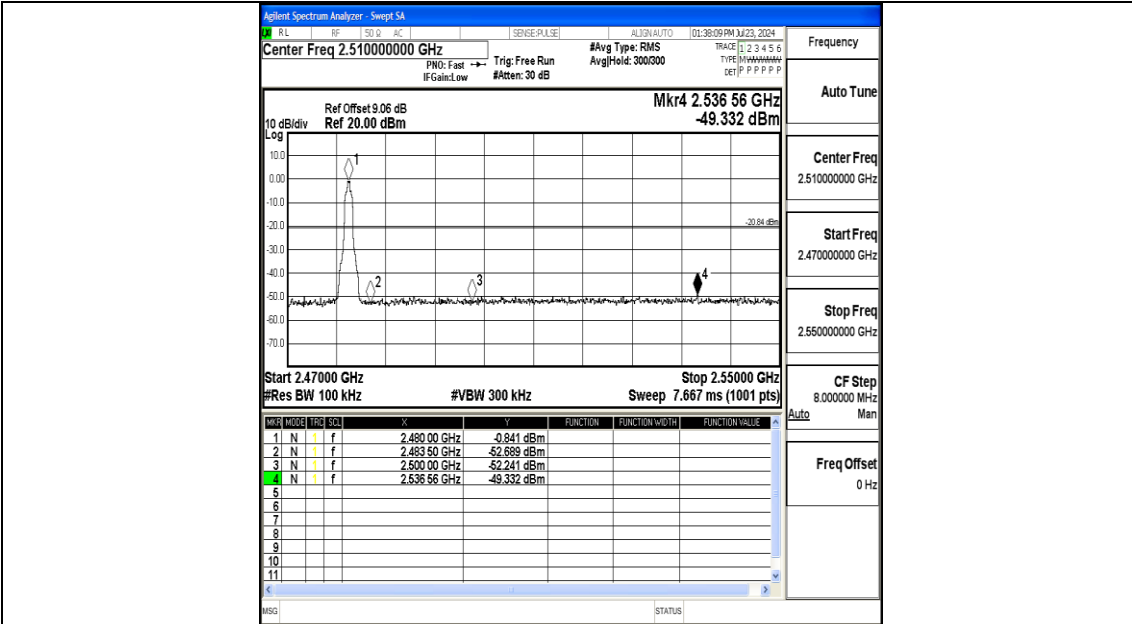
DH5-Ant1-Hop_2402-PASS



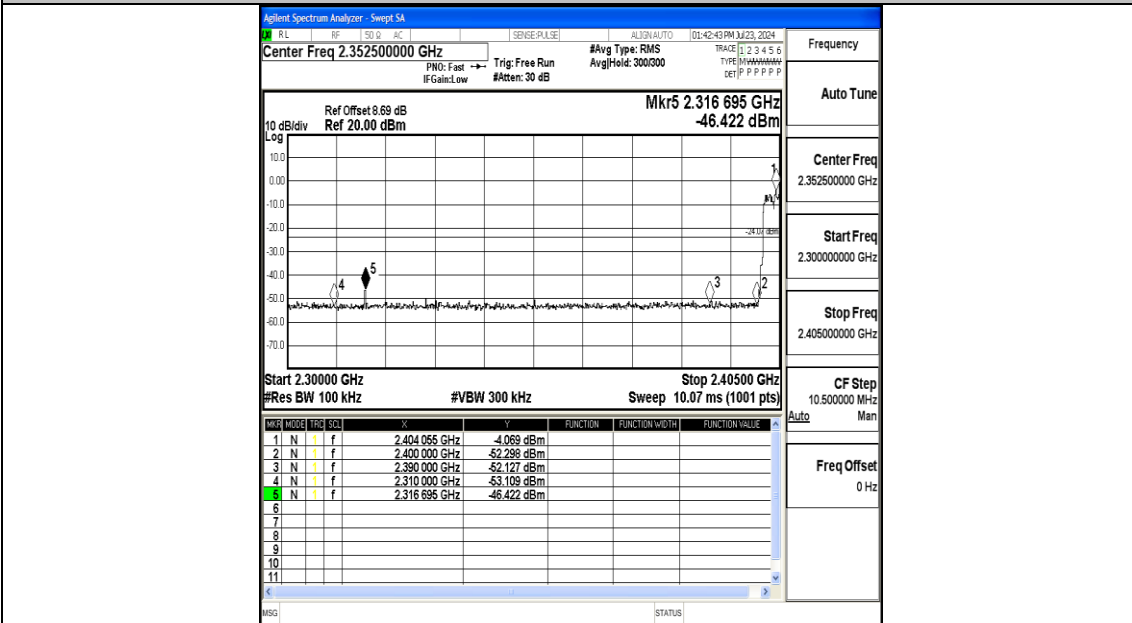
DH5-Ant1-Hop_2480-PASS



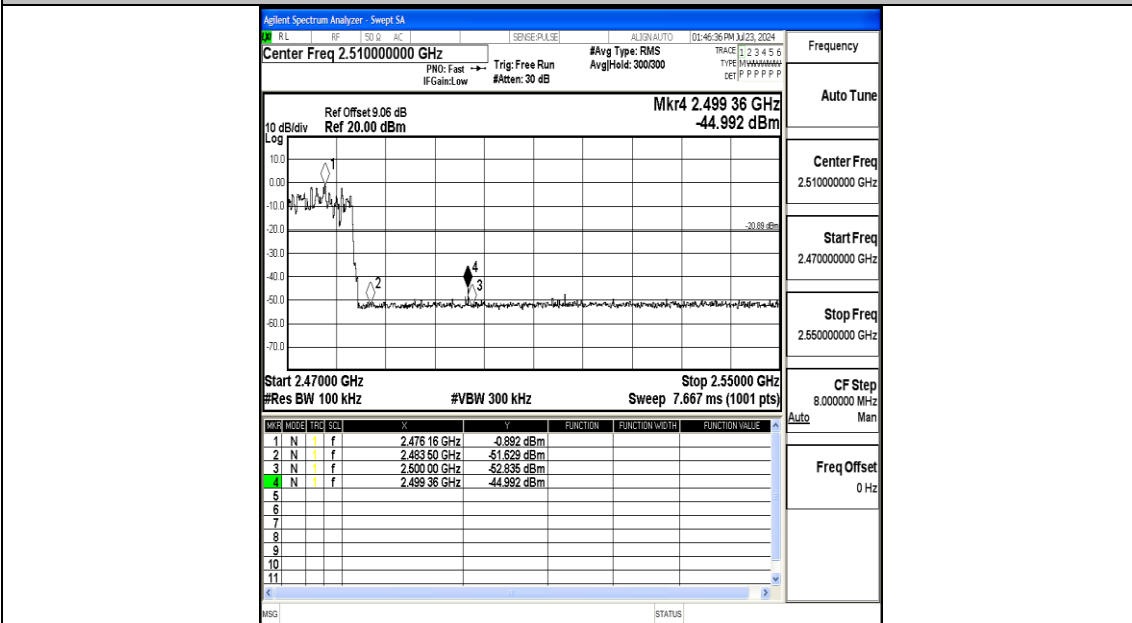
2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS



2DH5-Ant1-Hop_2402-PASS



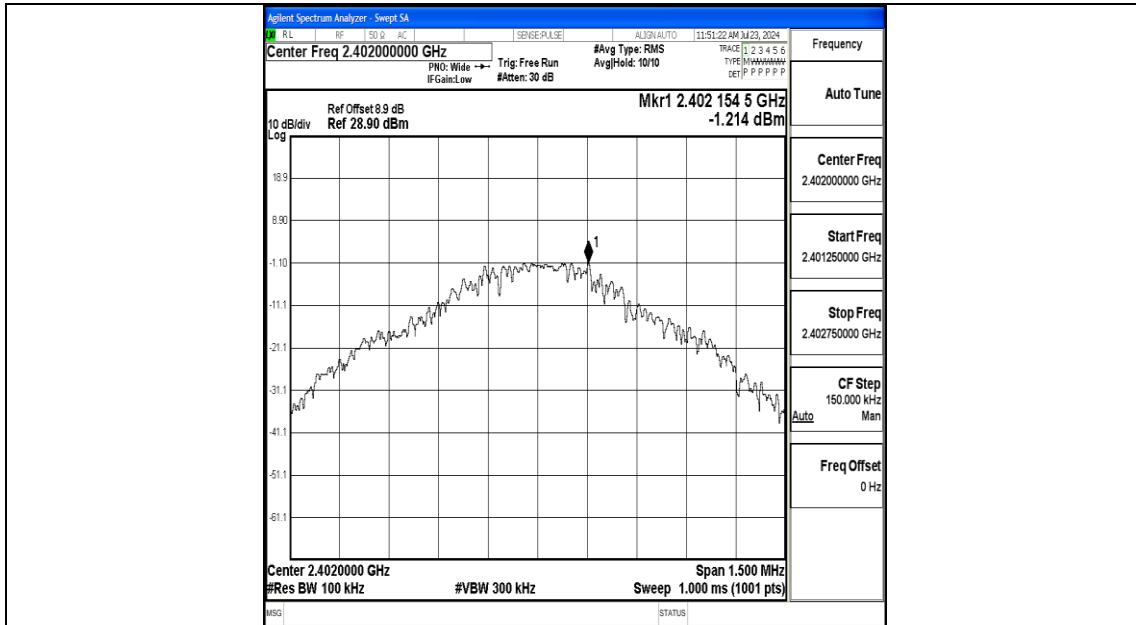
2DH5-Ant1-Hop_2480-PASS

Appendix H: Conducted Spurious Emission

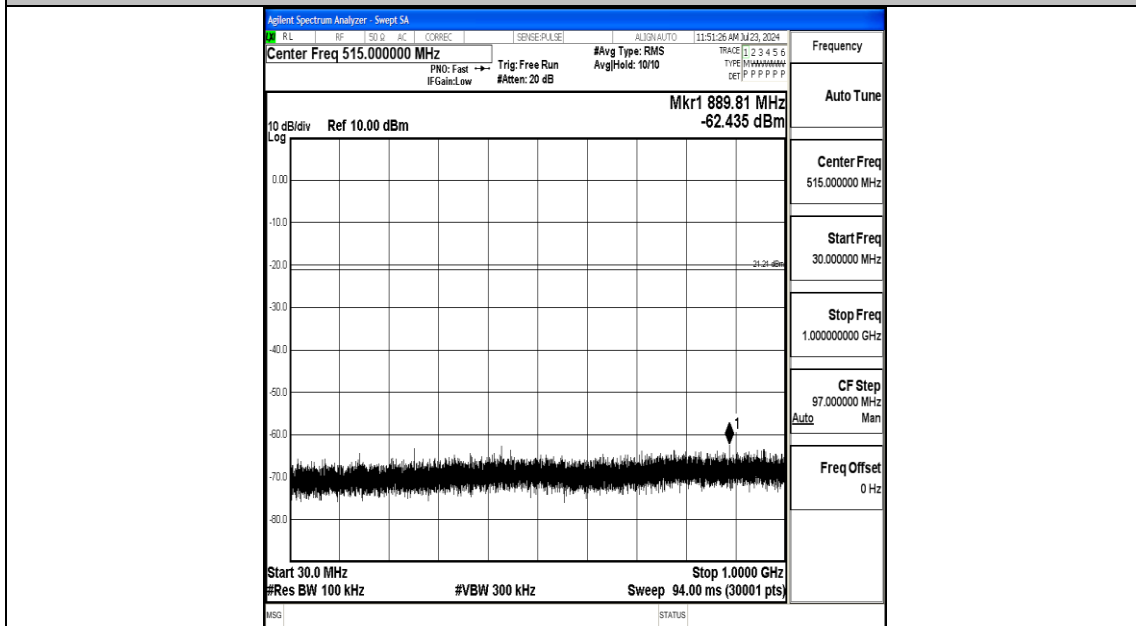
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-1.21	-1.21	---	PASS
DH5	Ant1	2402	30~1000	-1.21	-62.44	≤-21.21	PASS
DH5	Ant1	2402	1000~26500	-1.21	-38.53	≤-21.21	PASS
DH5	Ant1	2441	0~Reference	-0.89	-0.89	---	PASS
DH5	Ant1	2441	30~1000	-0.89	-62.69	≤-20.89	PASS
DH5	Ant1	2441	1000~26500	-0.89	-37.28	≤-20.89	PASS
DH5	Ant1	2480	0~Reference	-1.30	-1.30	---	PASS
DH5	Ant1	2480	30~1000	-1.30	-62.74	≤-21.3	PASS
DH5	Ant1	2480	1000~26500	-1.30	-39.58	≤-21.3	PASS
2DH5	Ant1	2402	0~Reference	-4.38	-4.38	---	PASS
2DH5	Ant1	2402	30~1000	-4.38	-63.04	≤-24.38	PASS
2DH5	Ant1	2402	1000~26500	-4.38	-35.7	≤-24.38	PASS
2DH5	Ant1	2441	0~Reference	-4.52	-4.52	---	PASS
2DH5	Ant1	2441	30~1000	-4.52	-62.56	≤-24.52	PASS
2DH5	Ant1	2441	1000~26500	-4.52	-37.03	≤-24.52	PASS
2DH5	Ant1	2480	0~Reference	-4.85	-4.85	---	PASS
2DH5	Ant1	2480	30~1000	-4.85	-63.18	≤-24.85	PASS
2DH5	Ant1	2480	1000~26500	-4.85	-37.73	≤-24.85	PASS

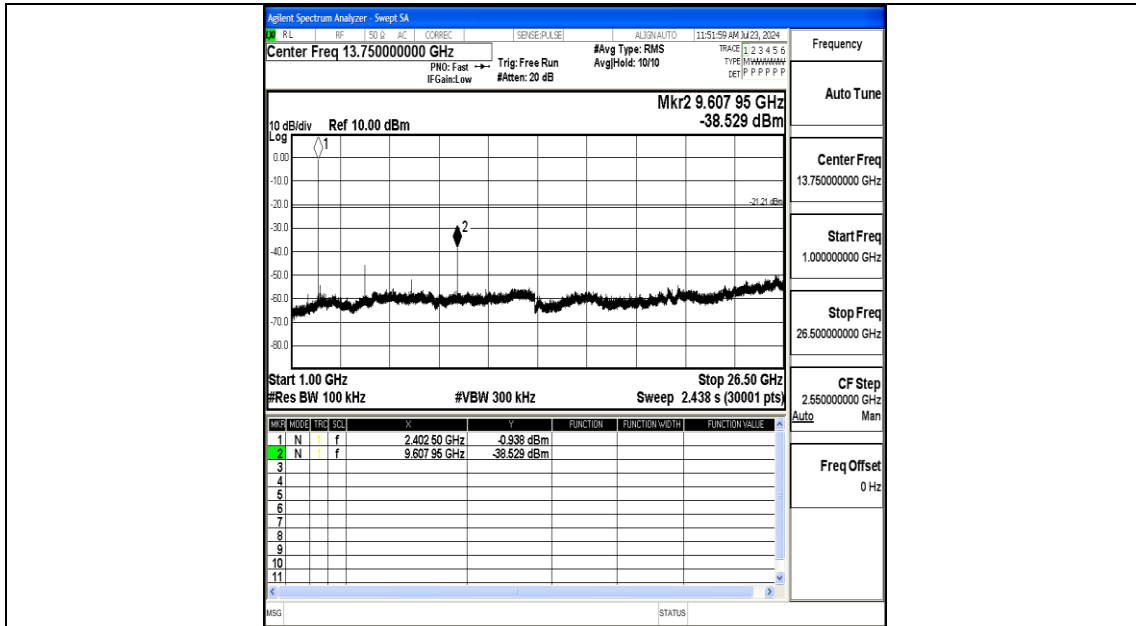
Test Graphs



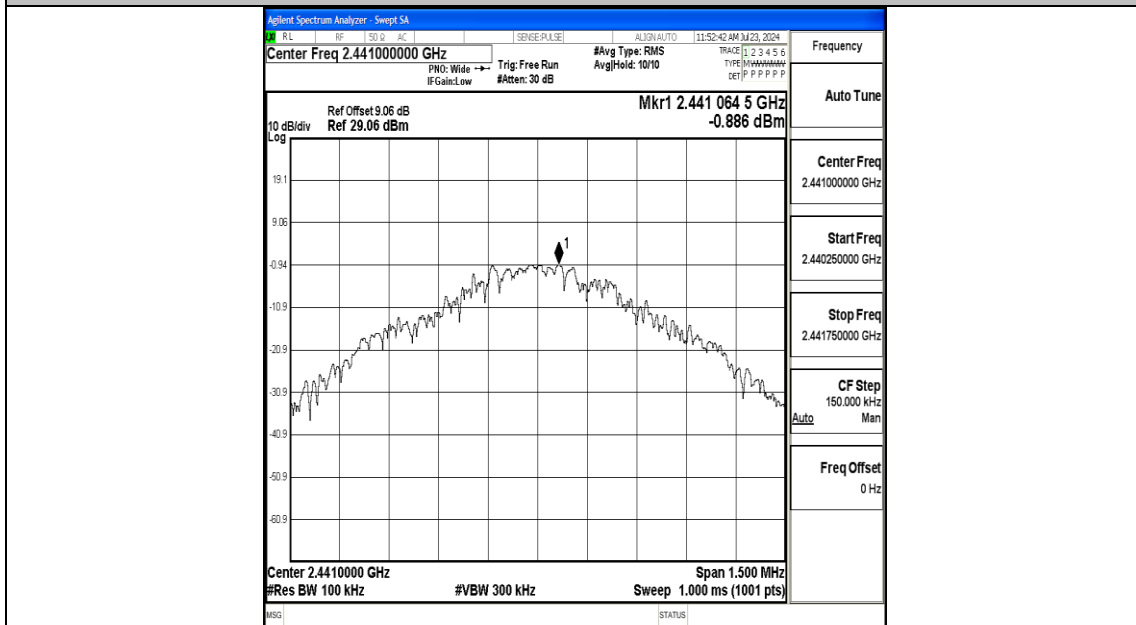
DH5-Ant1-2402-0~Reference-PASS



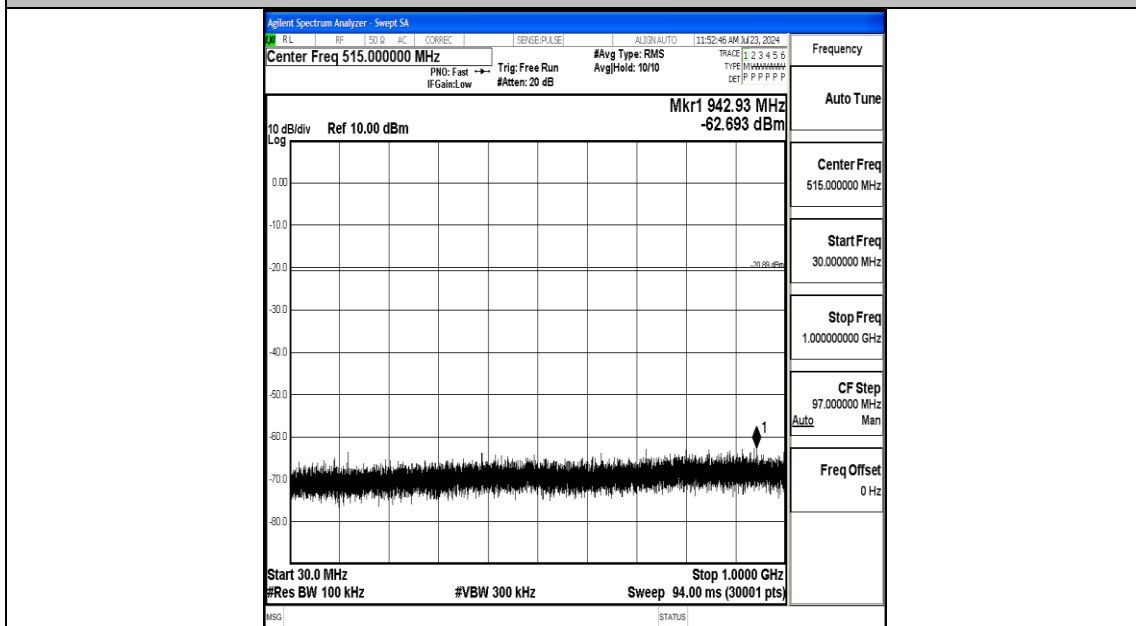
DH5-Ant1-2402-30~1000-PASS



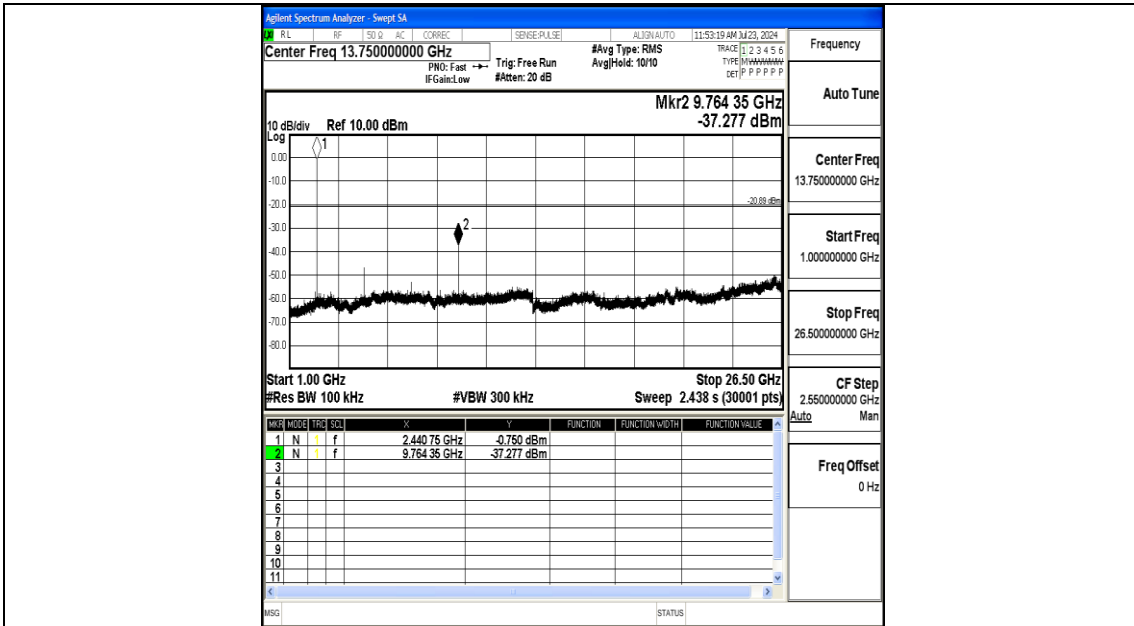
DH5-Ant1-2402-1000~26500-PASS



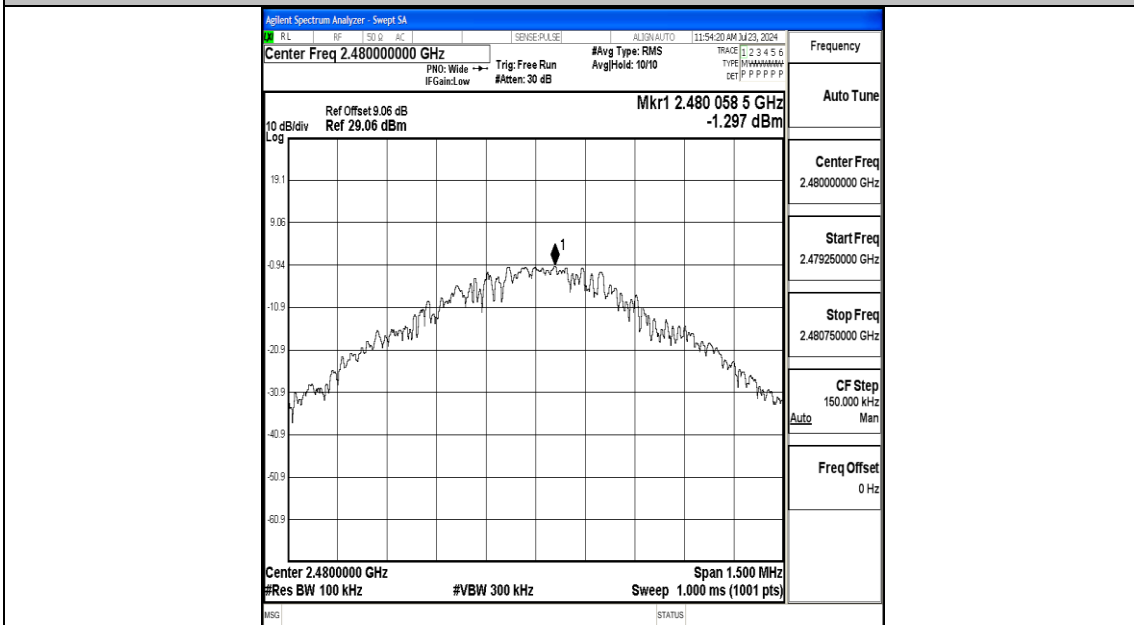
DH5-Ant1-2441-0~Reference-PASS



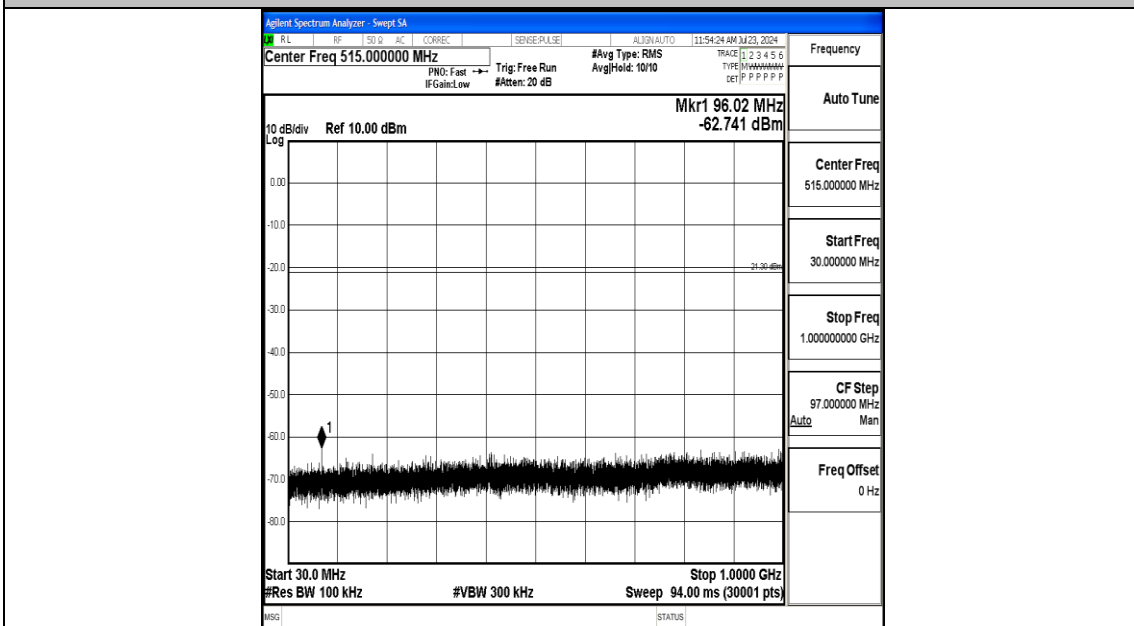
DH5-Ant1-2441-30~1000-PASS



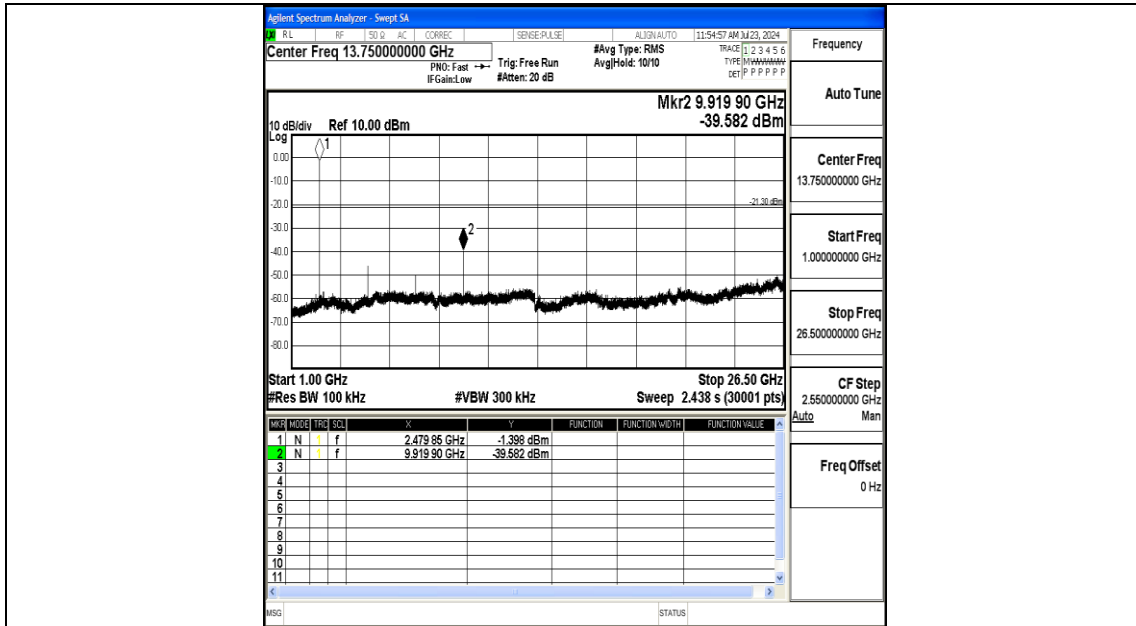
DH5-Ant1-2441-1000~26500-PASS



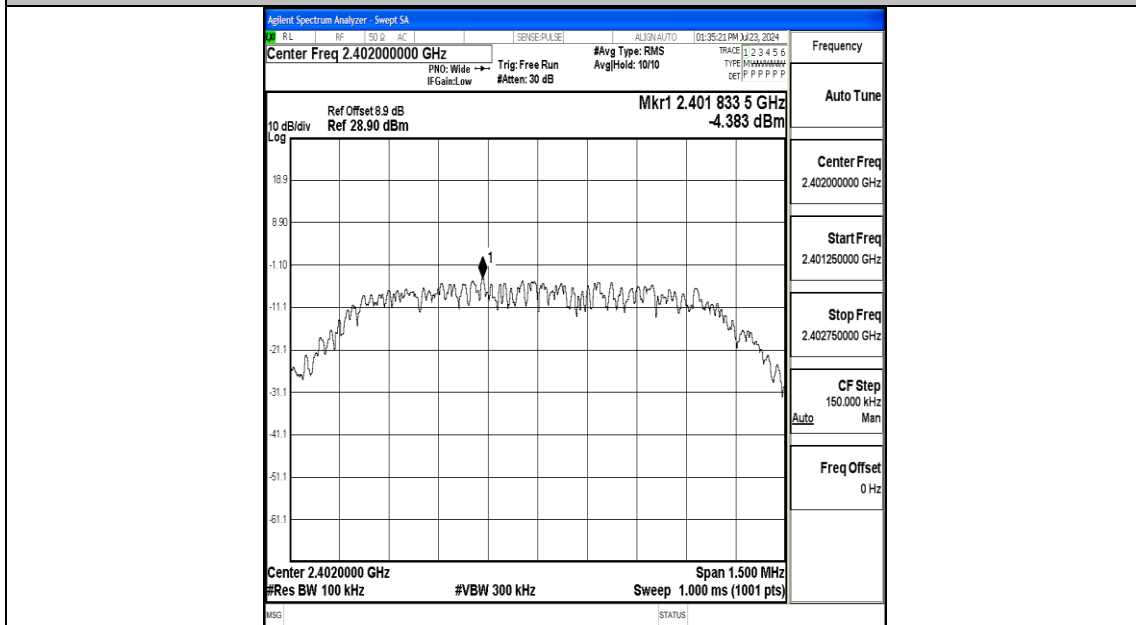
DH5-Ant1-2480-0~Reference-PASS



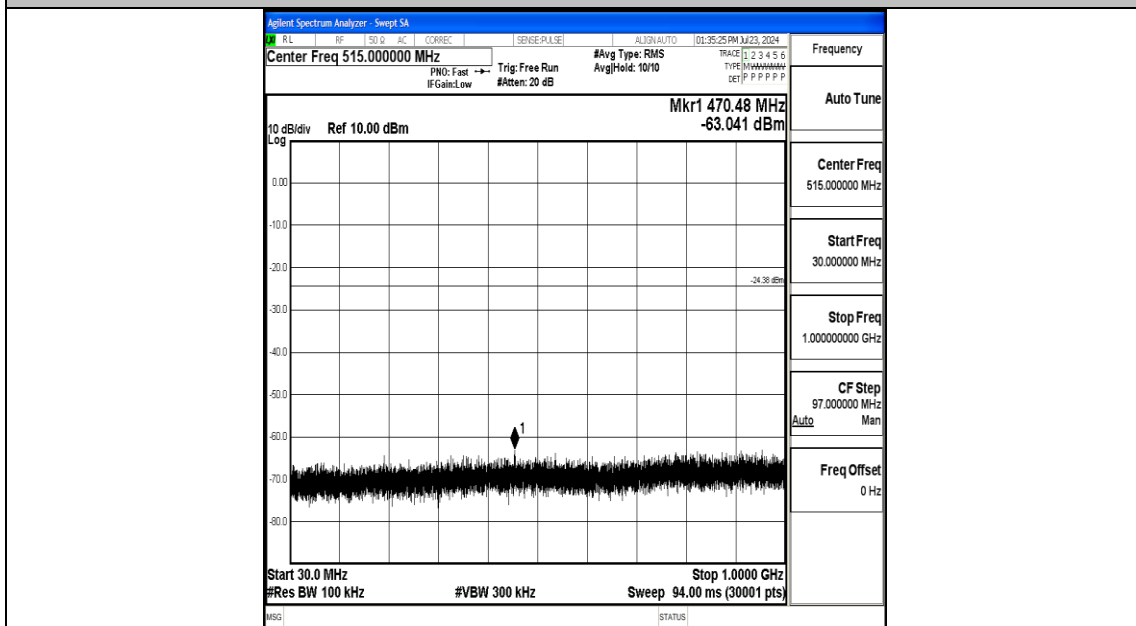
DH5-Ant1-2480-30~1000-PASS



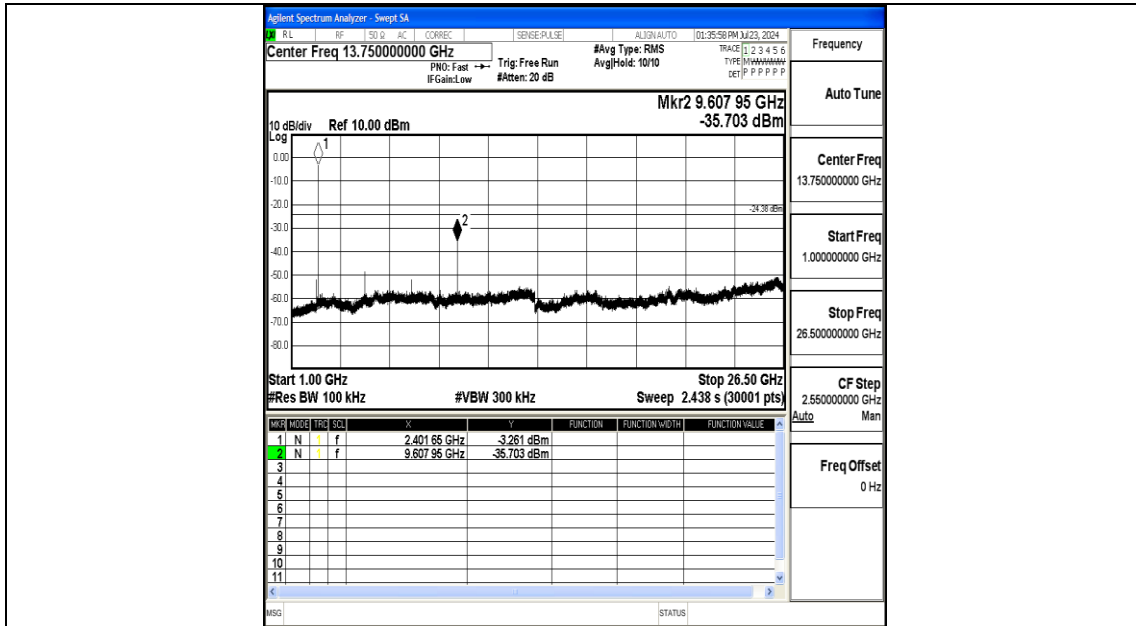
DH5-Ant1-2480-1000~26500-PASS



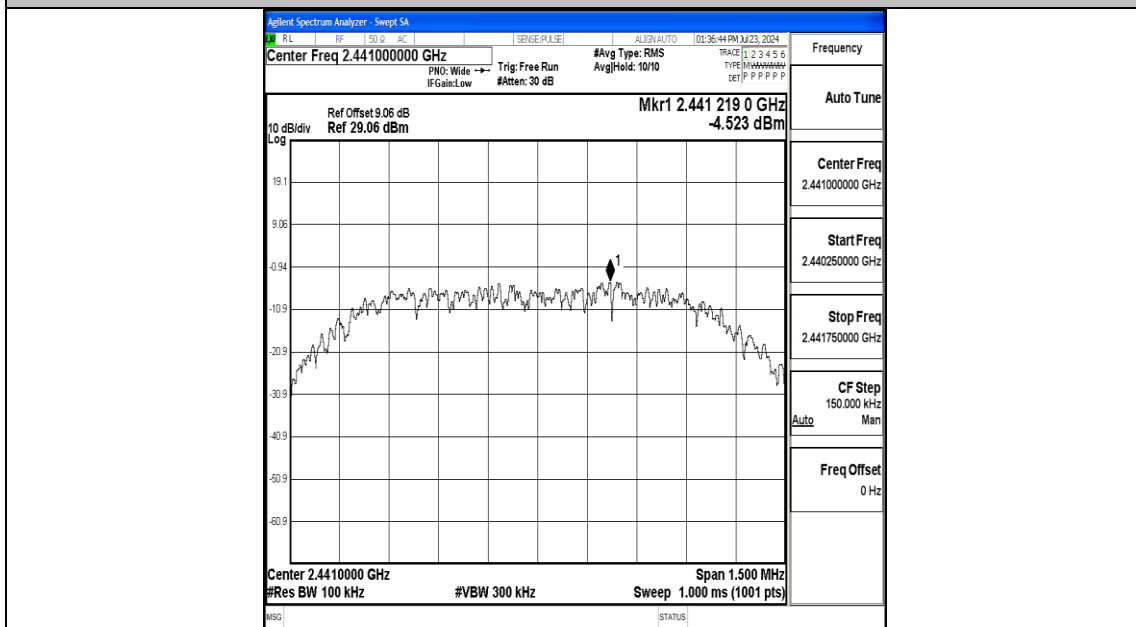
2DH5-Ant1-2402-0~Reference-PASS



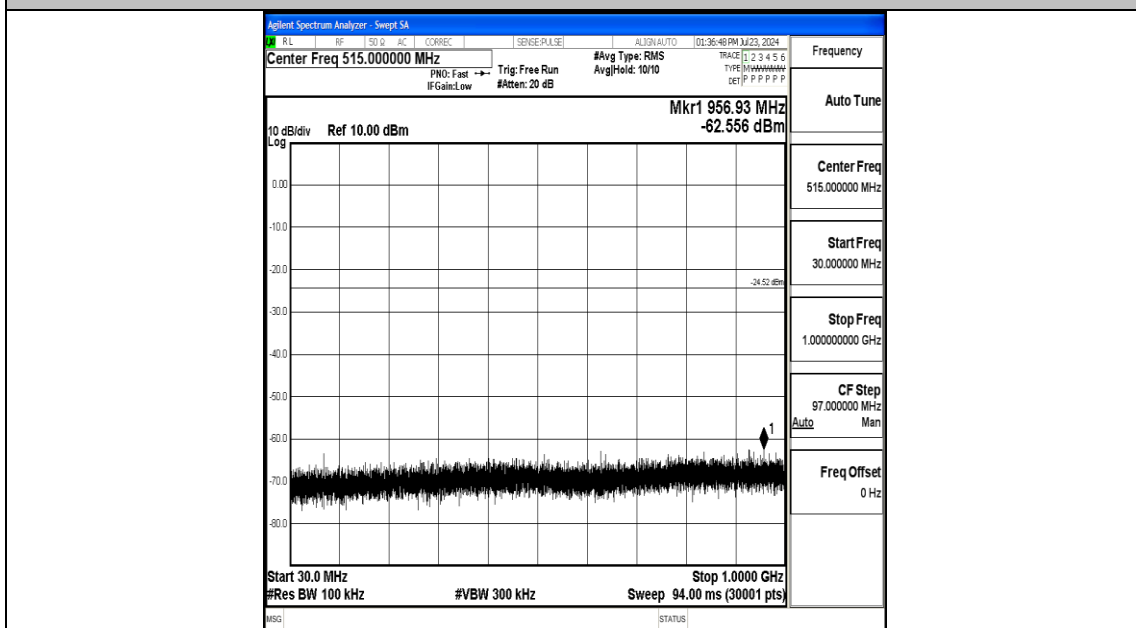
2DH5-Ant1-2402-30~1000-PASS



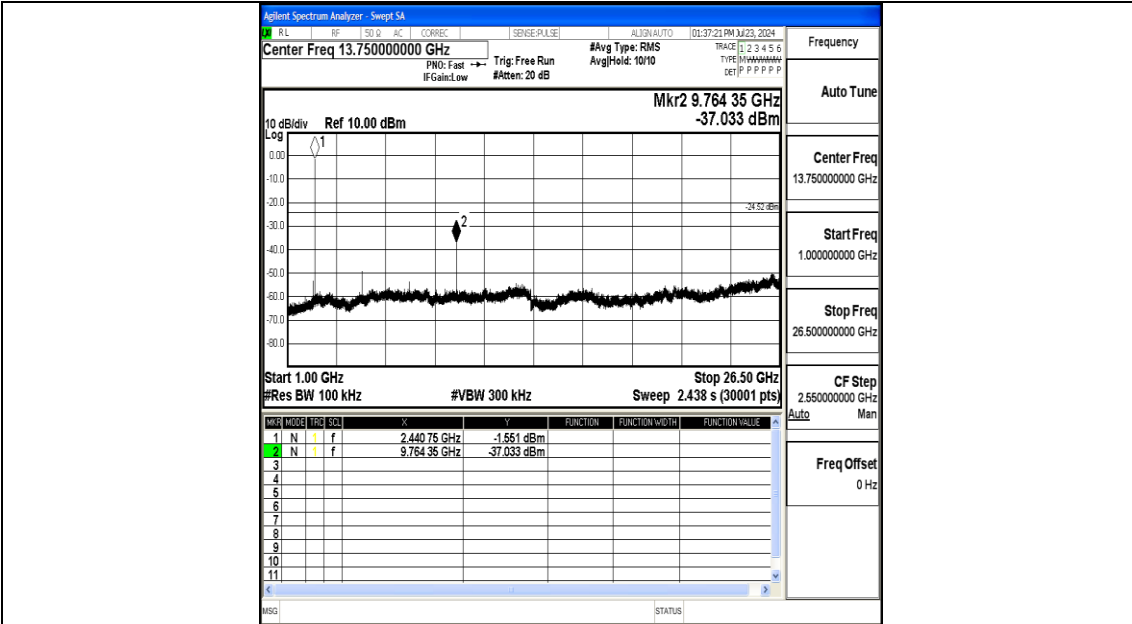
2DH5-Ant1-2402-1000~26500-PASS



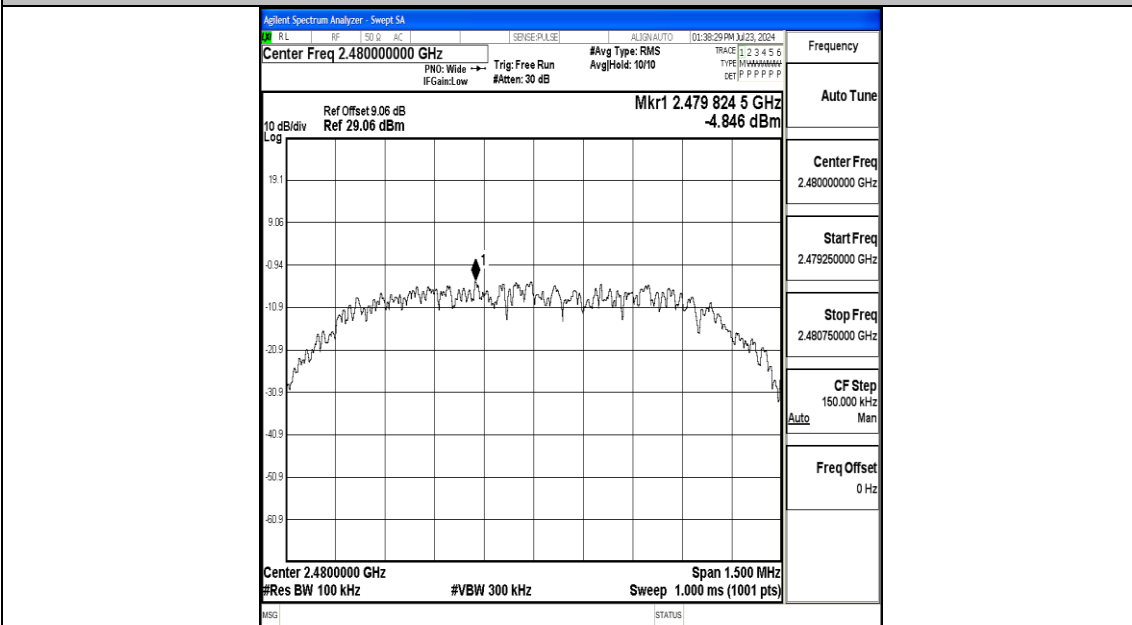
2DH5-Ant1-2441-0~Reference-PASS



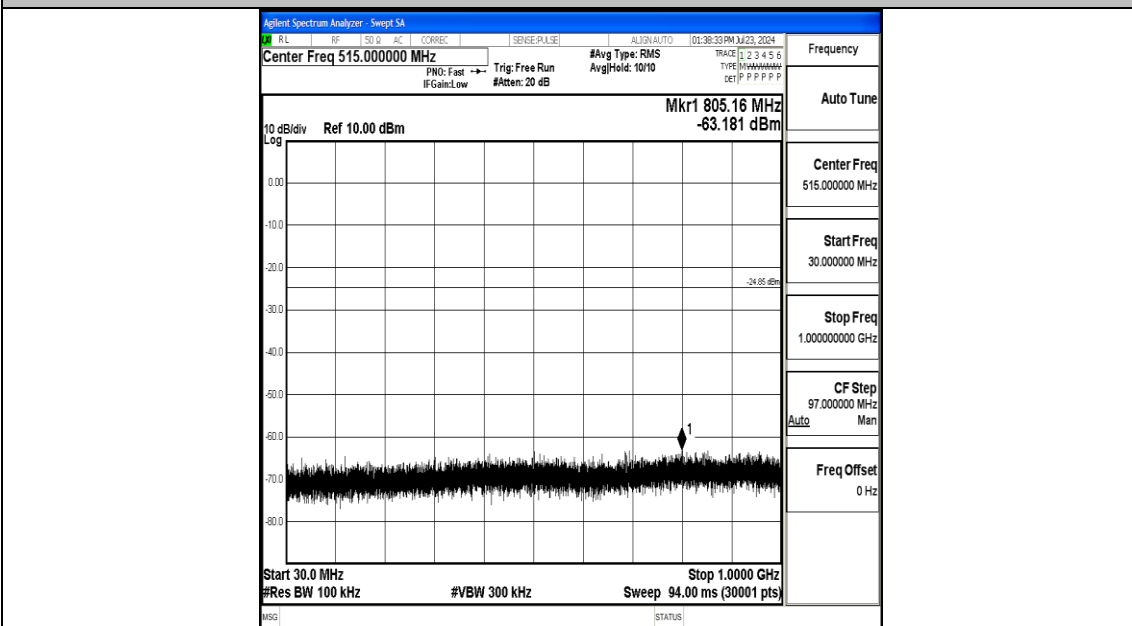
2DH5-Ant1-2441-30~1000-PASS



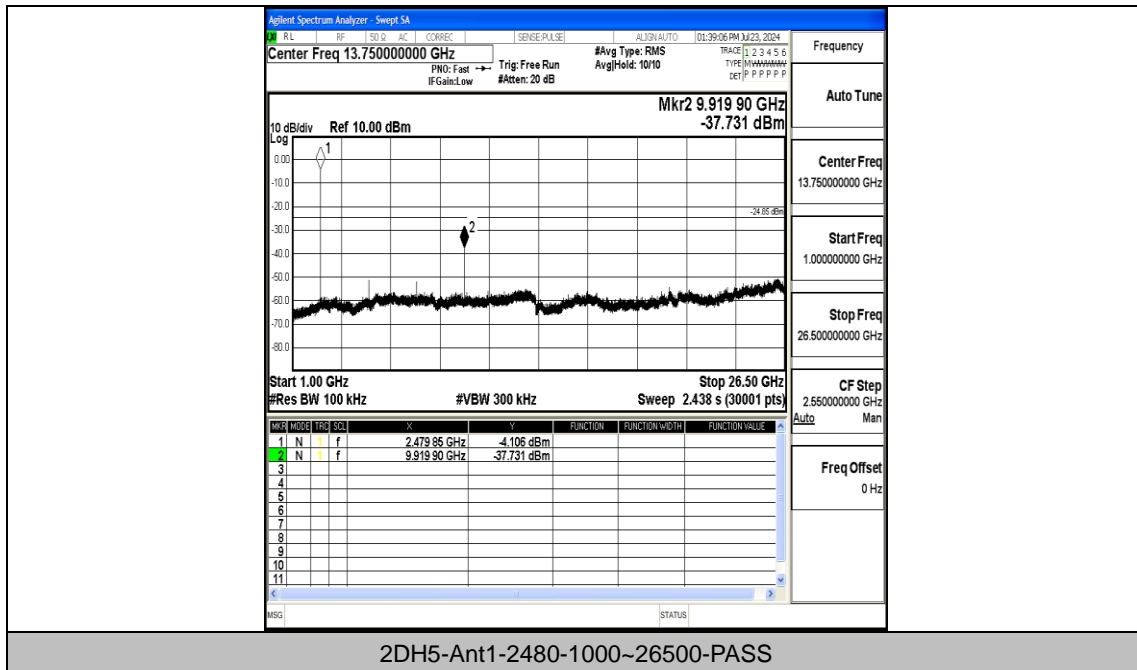
2DH5-Ant1-2441-1000~26500-PASS



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



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

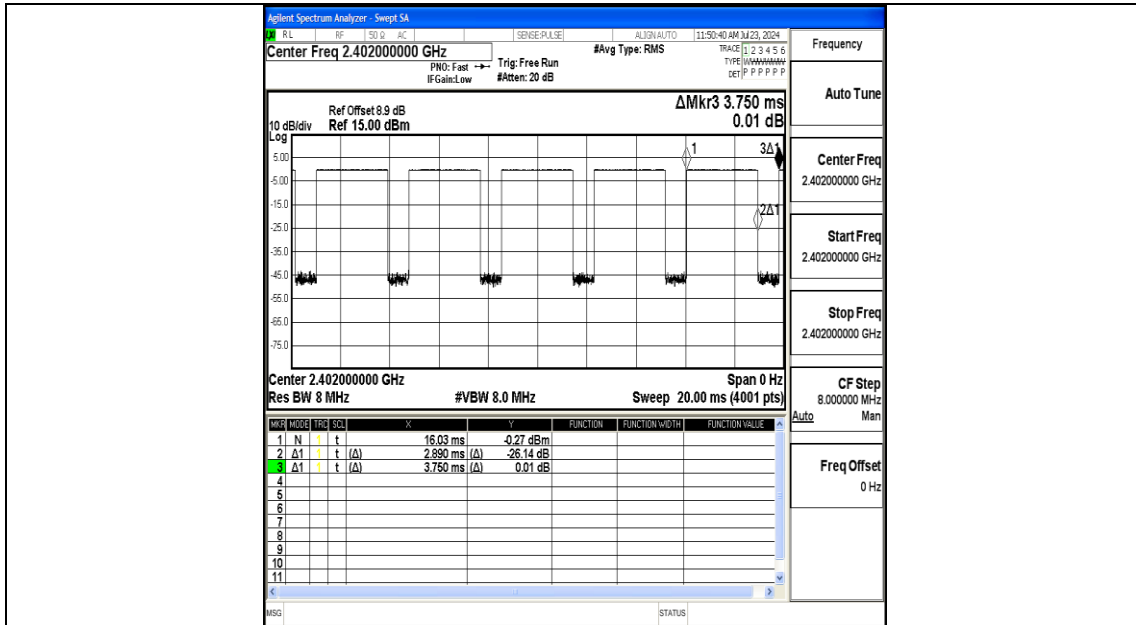


Appendix I: Duty Cycle

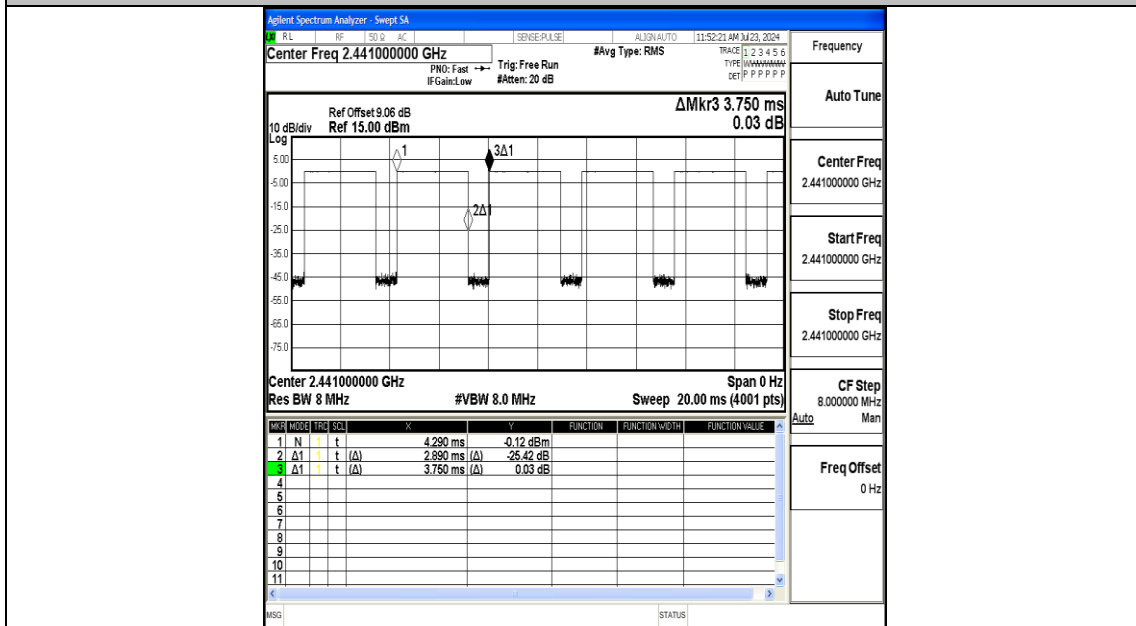
Test Result

TestMode	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	3.75	77.07	1.13
2DH5	Ant1	2402	2.90	3.75	77.33	1.12
2DH5	Ant1	2441	2.90	3.75	77.33	1.12
2DH5	Ant1	2480	2.89	3.75	77.07	1.13

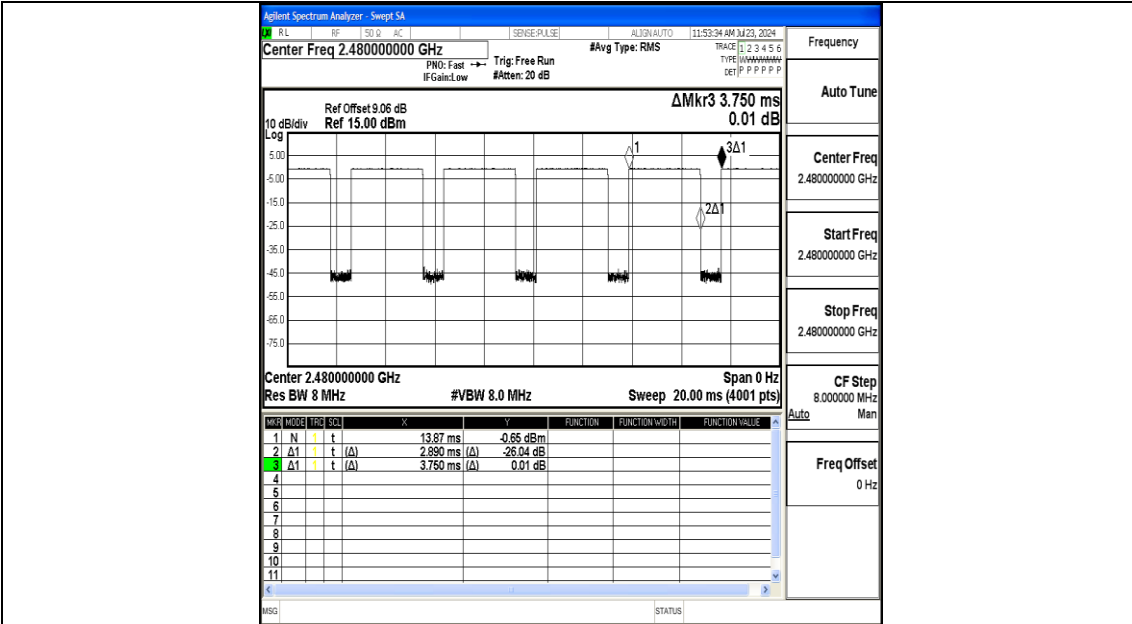
Test Graphs



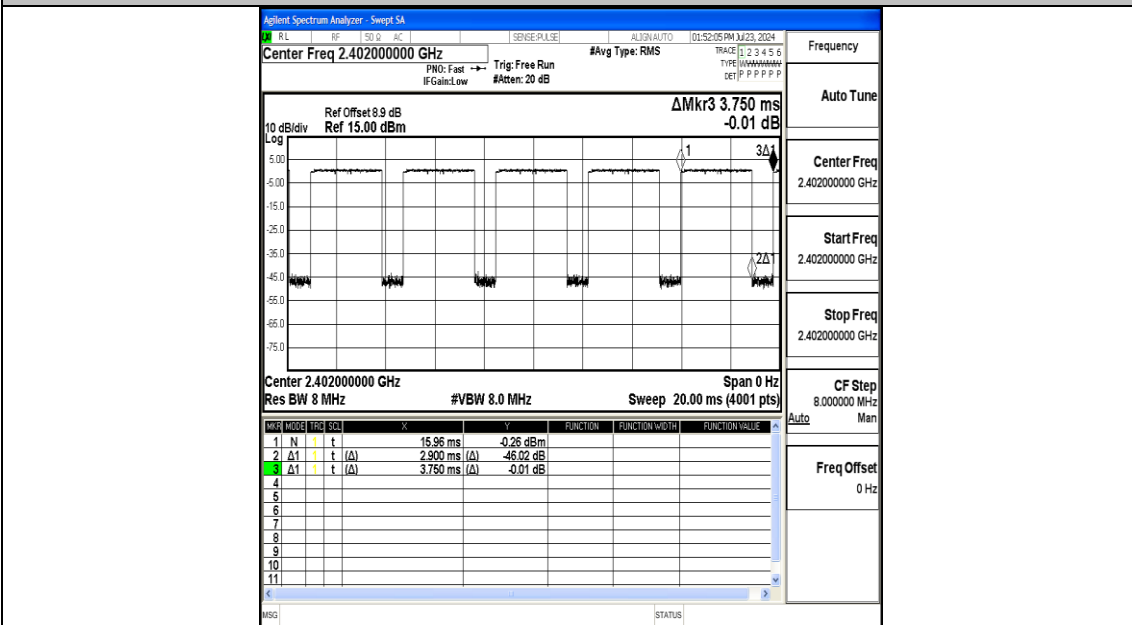
NTNV-DH5-Ant1-2402



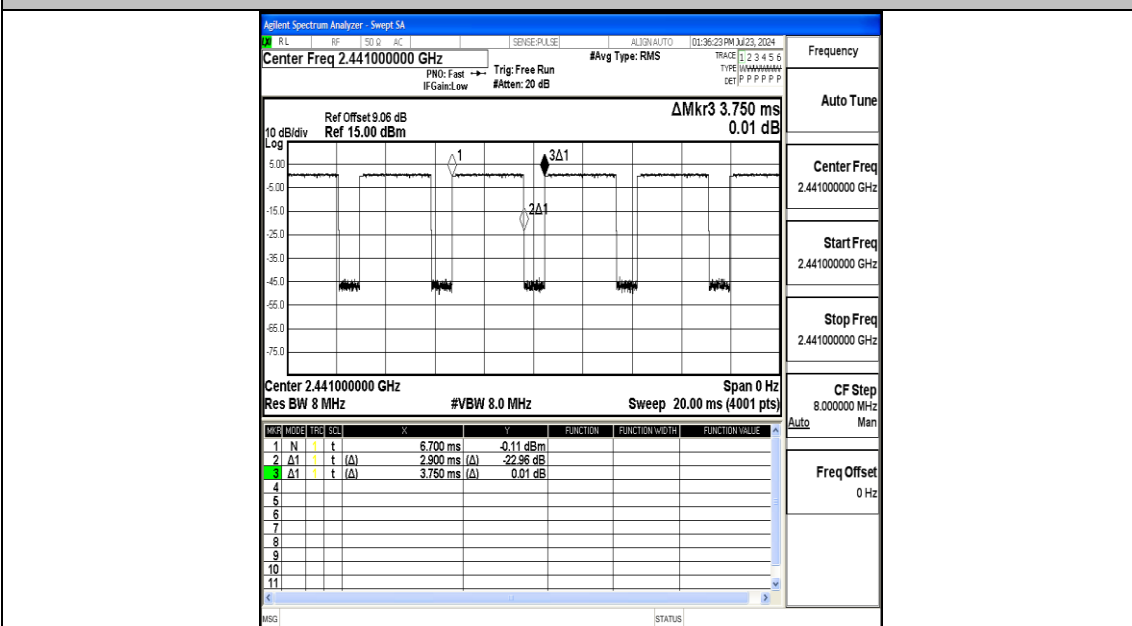
NTNV-DH5-Ant1-2441



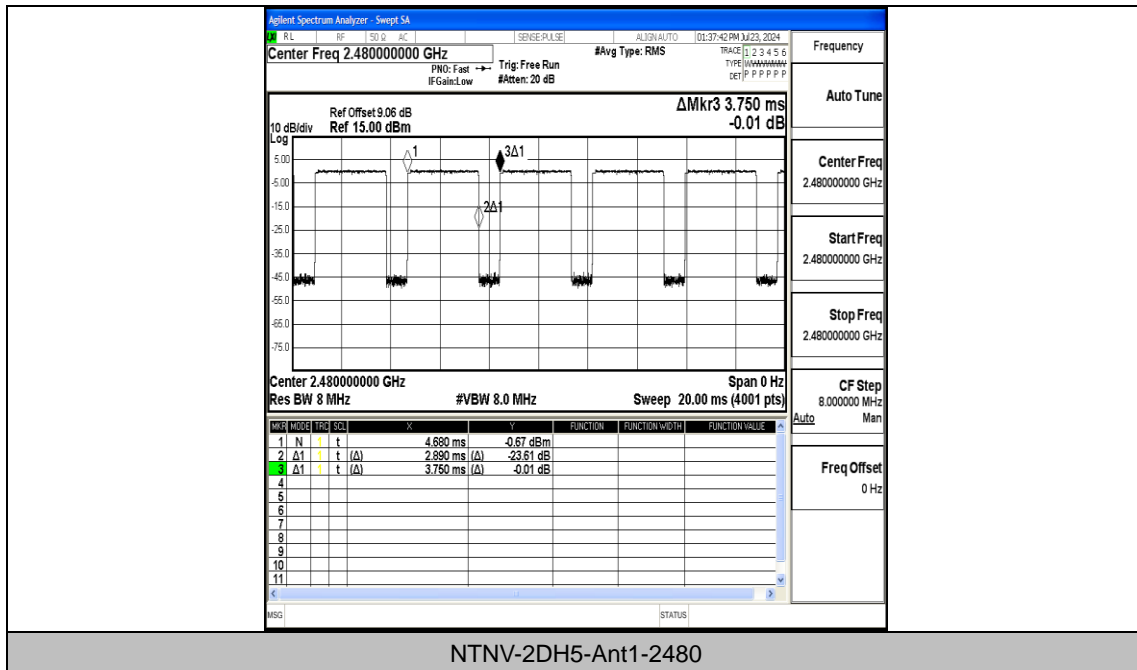
NTNV-DH5-Ant1-2480



NTNV-2DH5-Ant1-2402



NTNV-2DH5-Ant1-2441



NTNV-2DH5-Ant1-2480