

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

Product Name: Wireless Earbuds

Trade Mark: Aiwa, Vivitar

Test Model: AI1006

FCC ID: 2AL9B-AI1006

Environmental Conditions

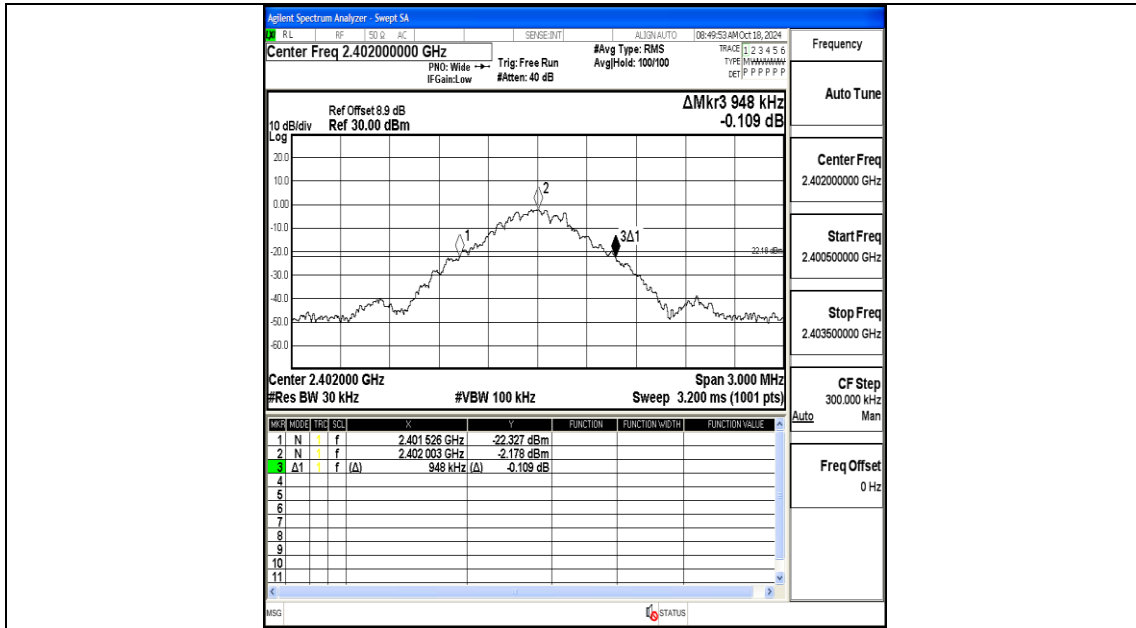
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: 20dB Emission Bandwidth

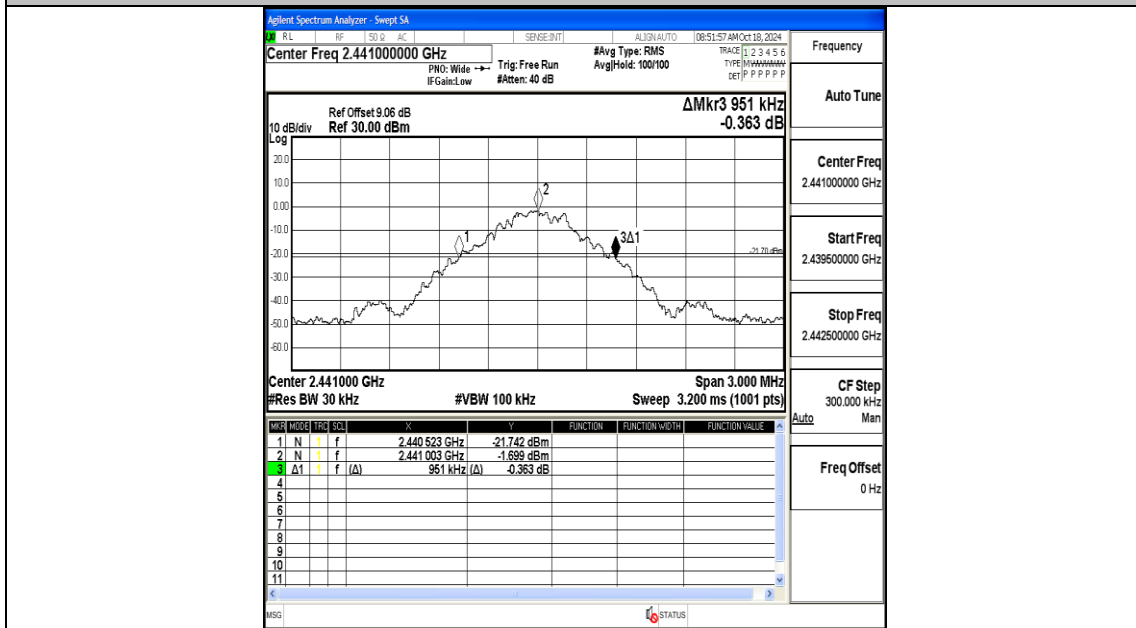
Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.948	2401.526	2402.474	---	---
DH5	Ant1	2441	0.951	2440.523	2441.474	---	---
DH5	Ant1	2480	0.966	2479.520	2480.486	---	---
2DH5	Ant1	2402	1.290	2401.355	2402.645	---	---
2DH5	Ant1	2441	1.320	2440.325	2441.645	---	---
2DH5	Ant1	2480	1.287	2479.355	2480.642	---	---
3DH5	Ant1	2402	1.311	2401.343	2402.654	---	---
3DH5	Ant1	2441	1.308	2440.337	2441.645	---	---
3DH5	Ant1	2480	1.305	2479.343	2480.648	---	---

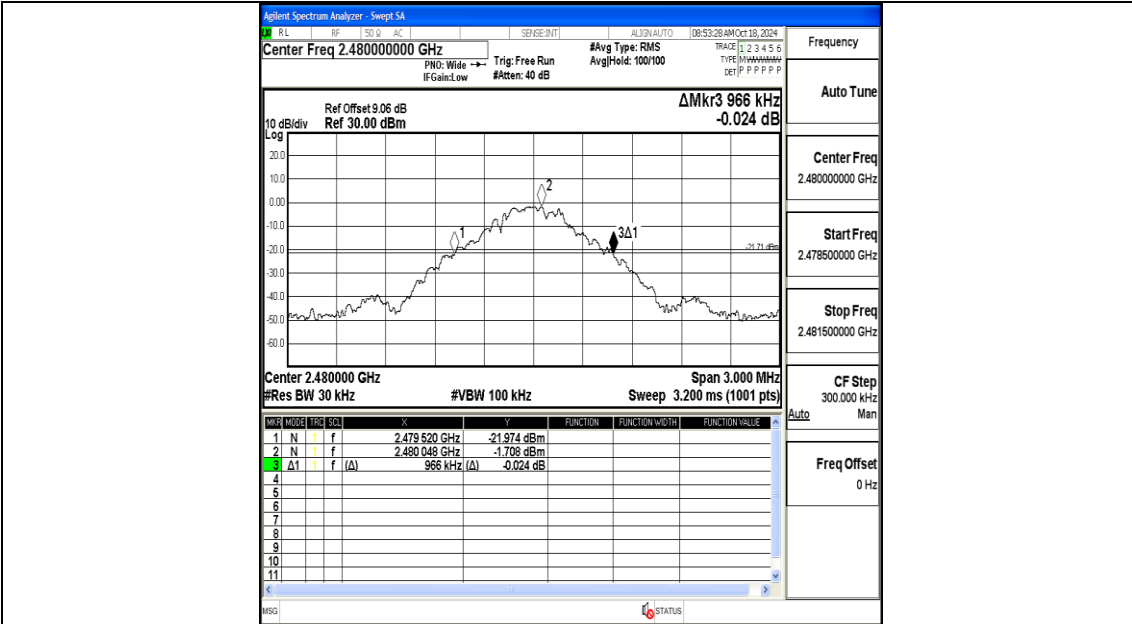
Test Graphs



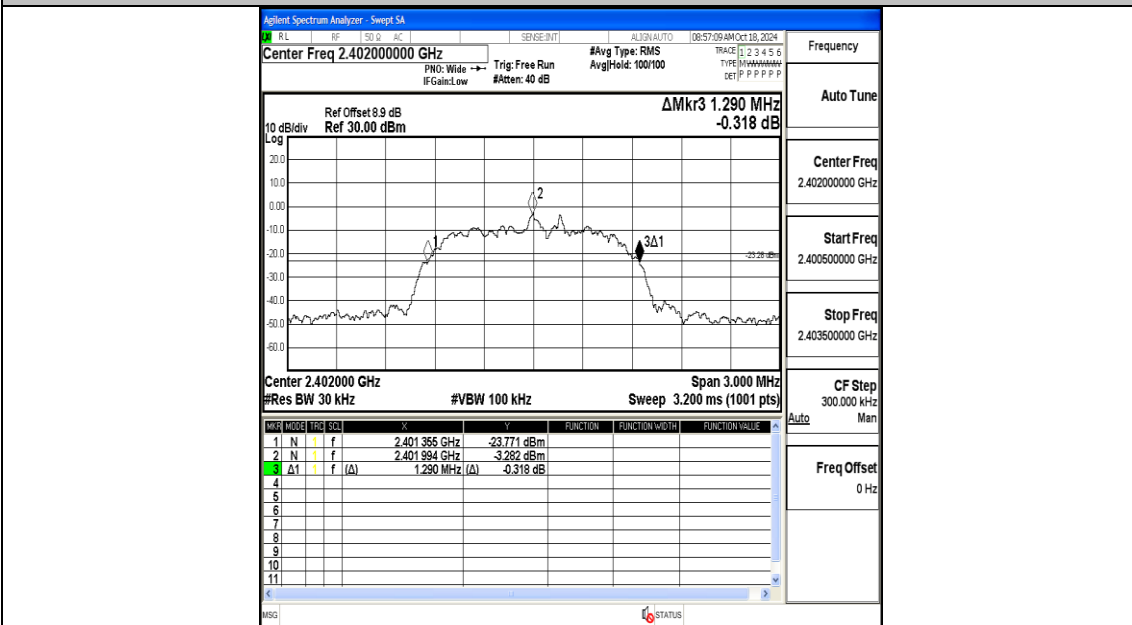
DH5-Ant1-2402



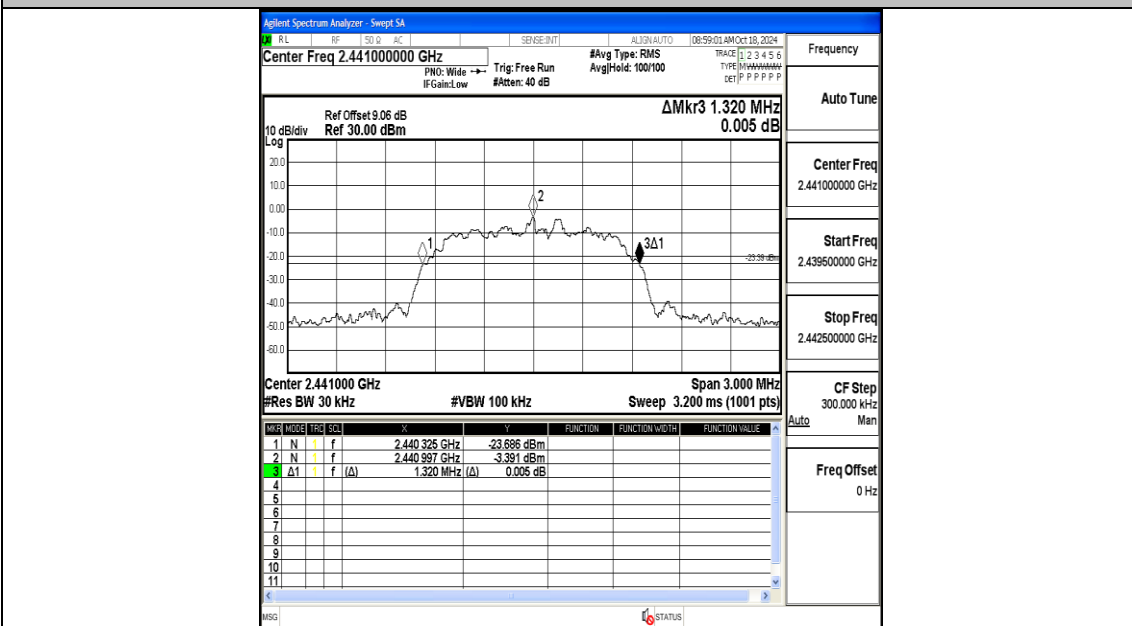
DH5-Ant1-2441



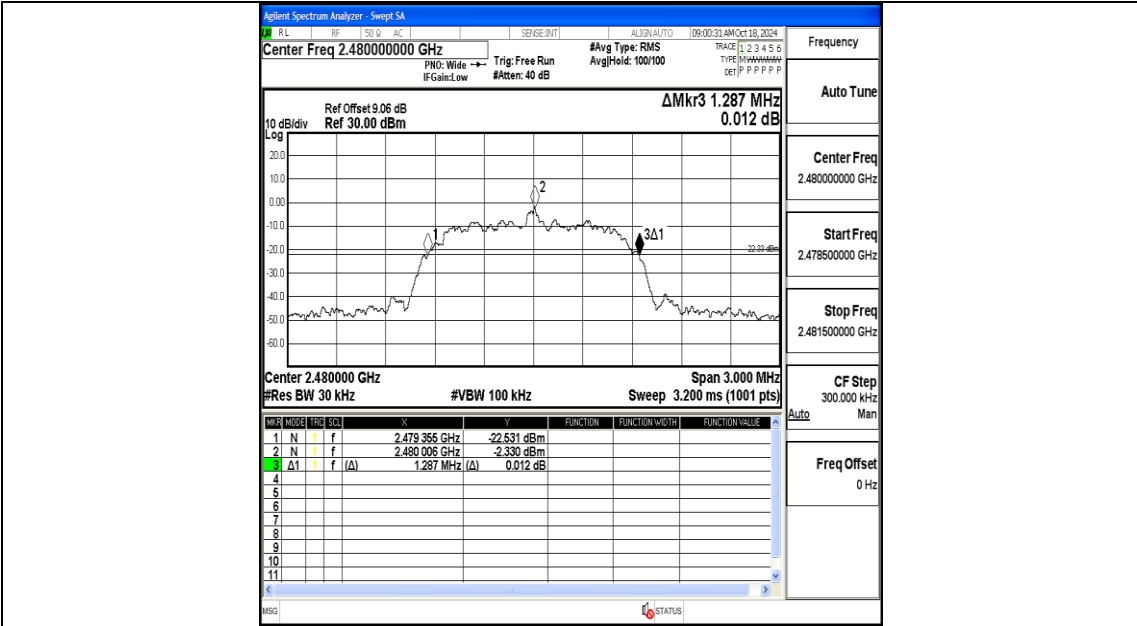
DH5-Ant1-2480



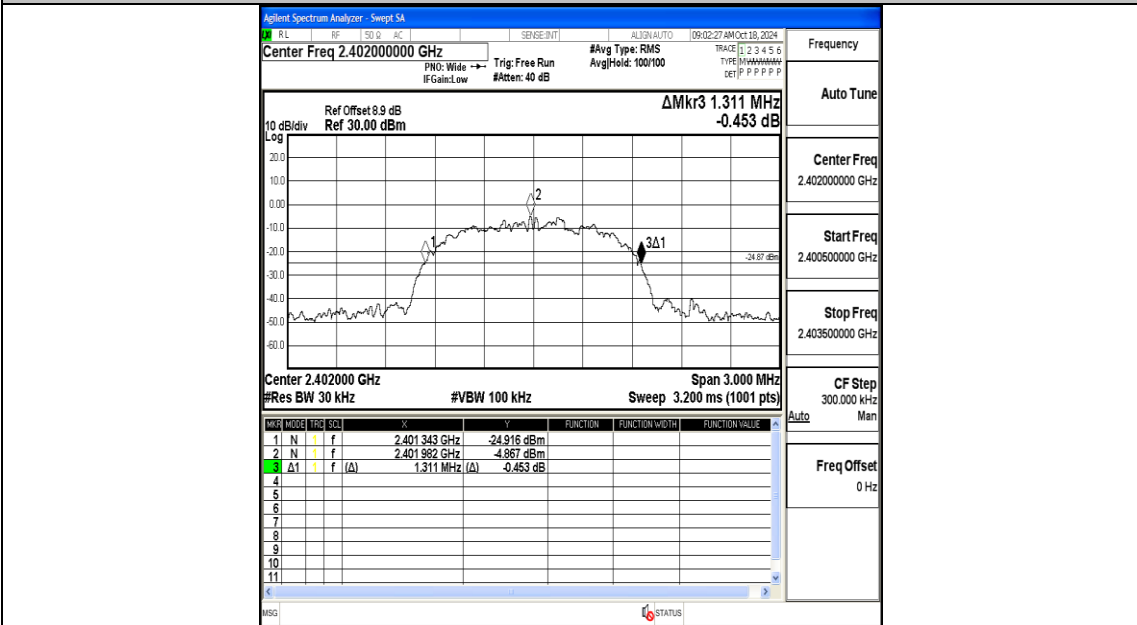
2DH5-Ant1-2402



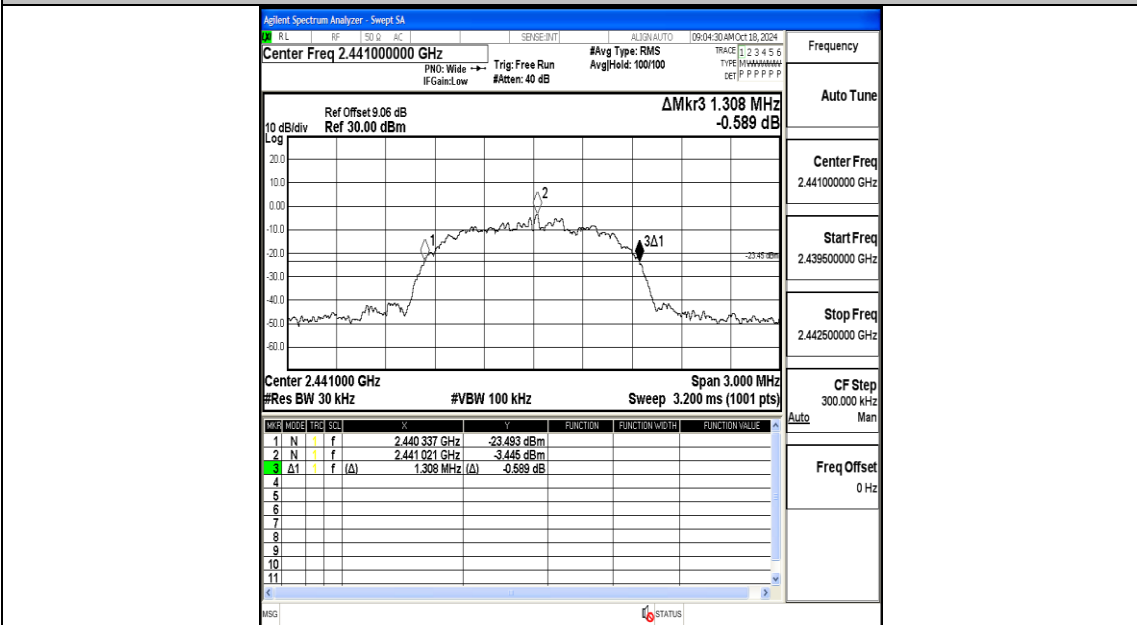
2DH5-Ant1-2441



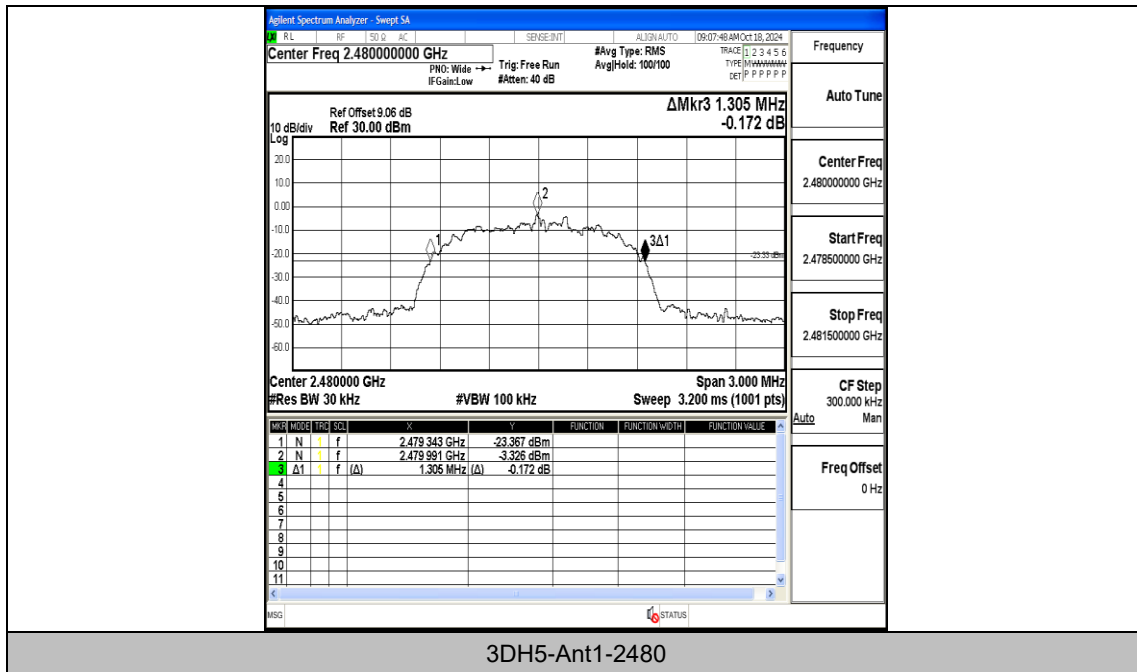
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



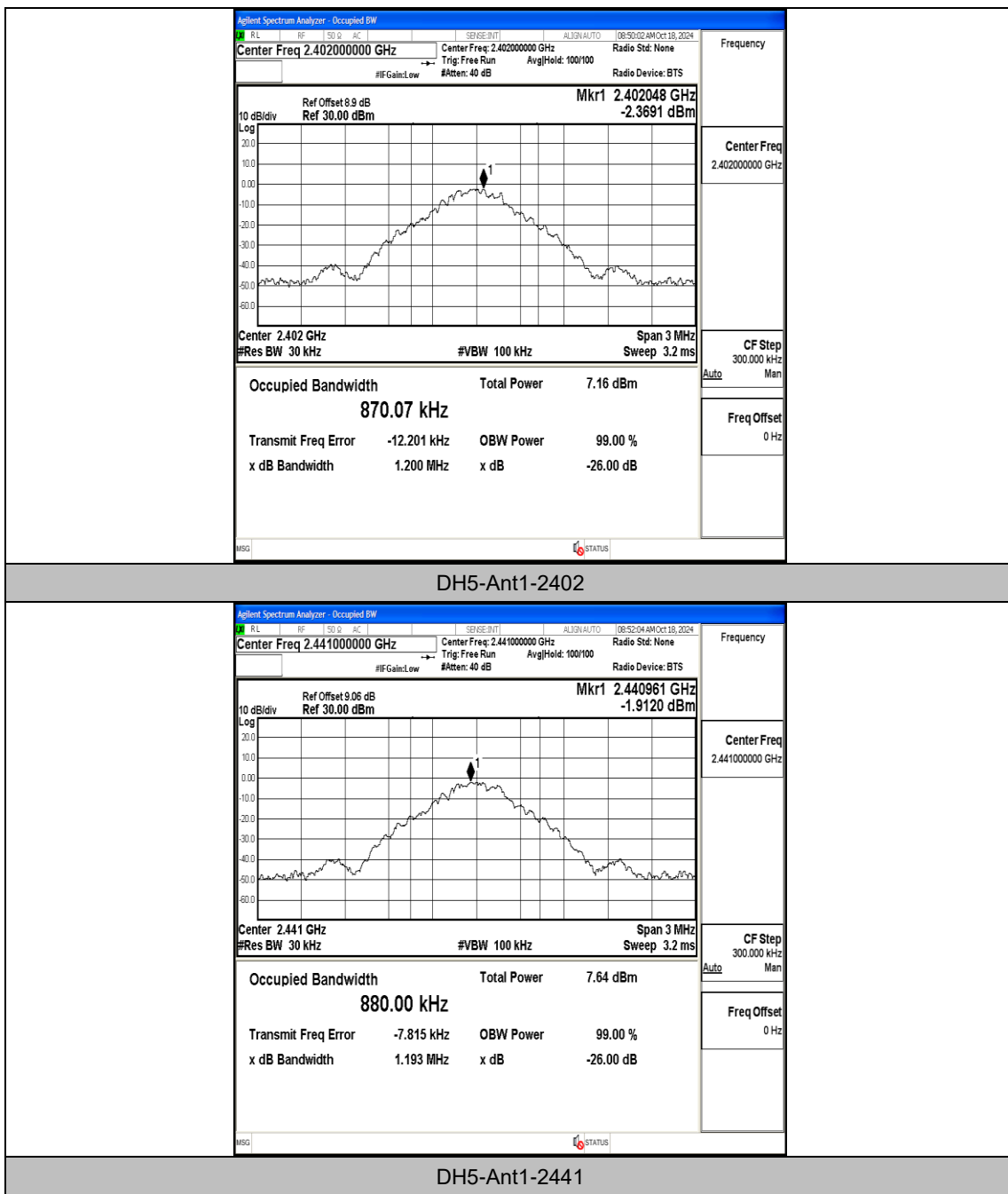
3DH5-Ant1-2480

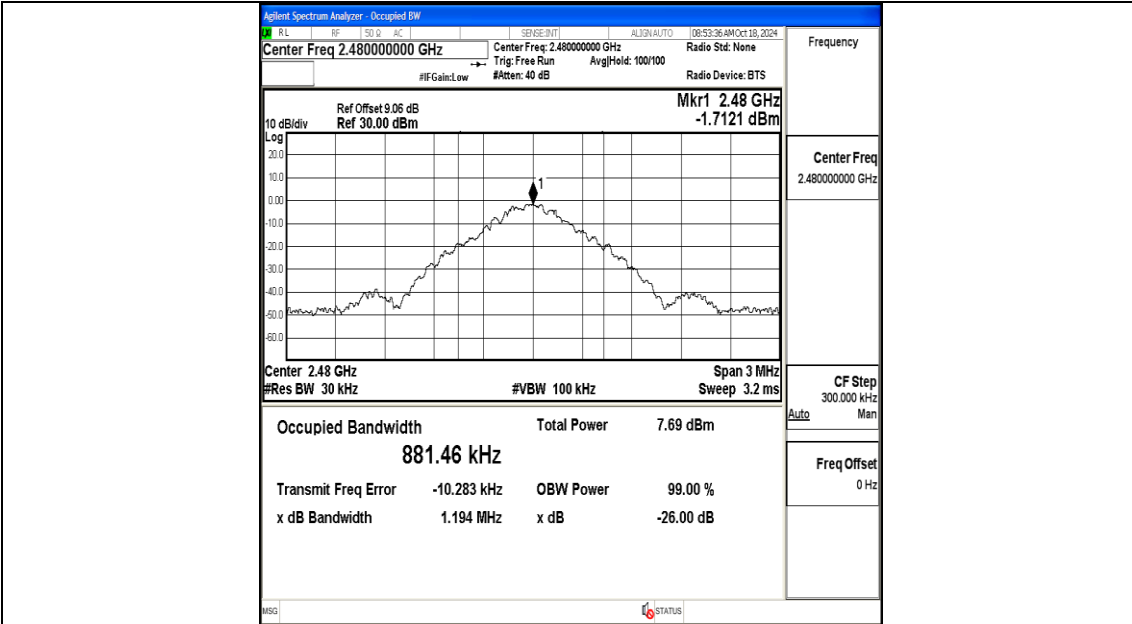
Appendix B: Occupied Channel Bandwidth

Test Result

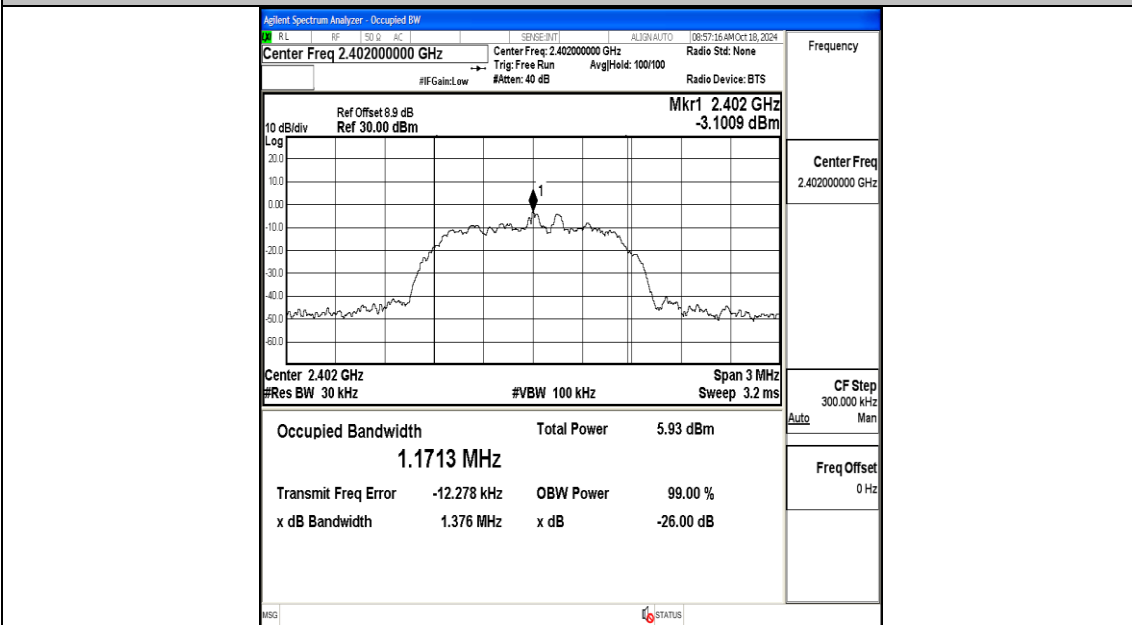
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.87007	2401.5528	2402.4228	---	---
DH5	Ant1	2441	0.88000	2440.5522	2441.4322	---	---
DH5	Ant1	2480	0.88146	2479.5490	2480.4305	---	---
2DH5	Ant1	2402	1.1713	2401.4021	2402.5734	---	---
2DH5	Ant1	2441	1.1815	2440.3980	2441.5795	---	---
2DH5	Ant1	2480	1.1770	2479.3982	2480.5752	---	---
3DH5	Ant1	2402	1.1810	2401.4013	2402.5823	---	---
3DH5	Ant1	2441	1.1789	2440.4032	2441.5821	---	---
3DH5	Ant1	2480	1.1862	2479.3992	2480.5854	---	---

Test Graphs

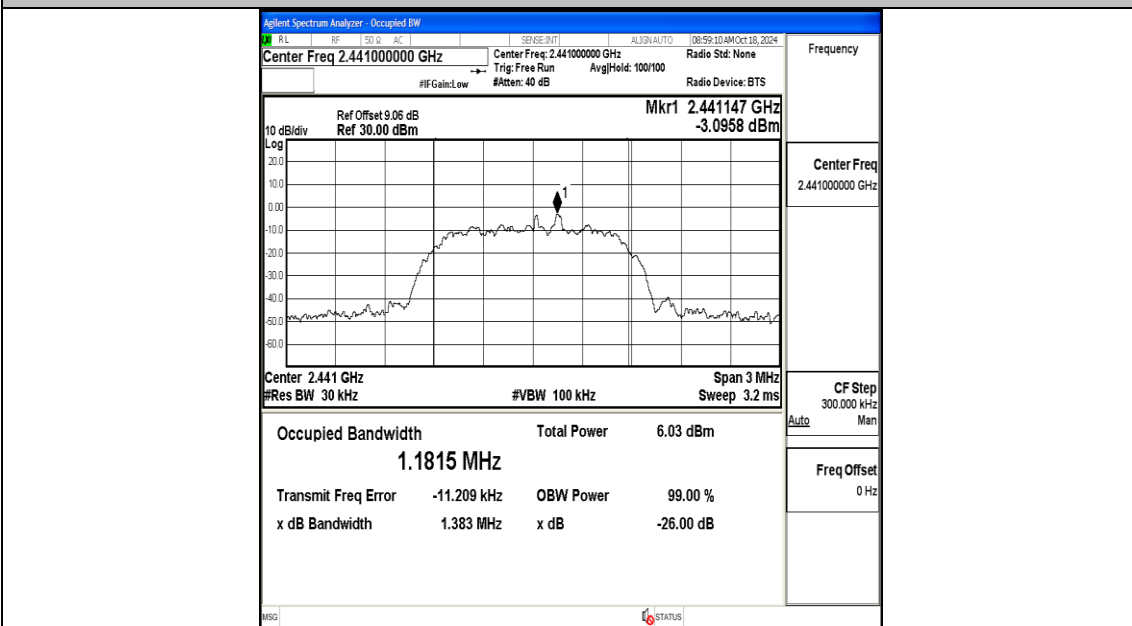




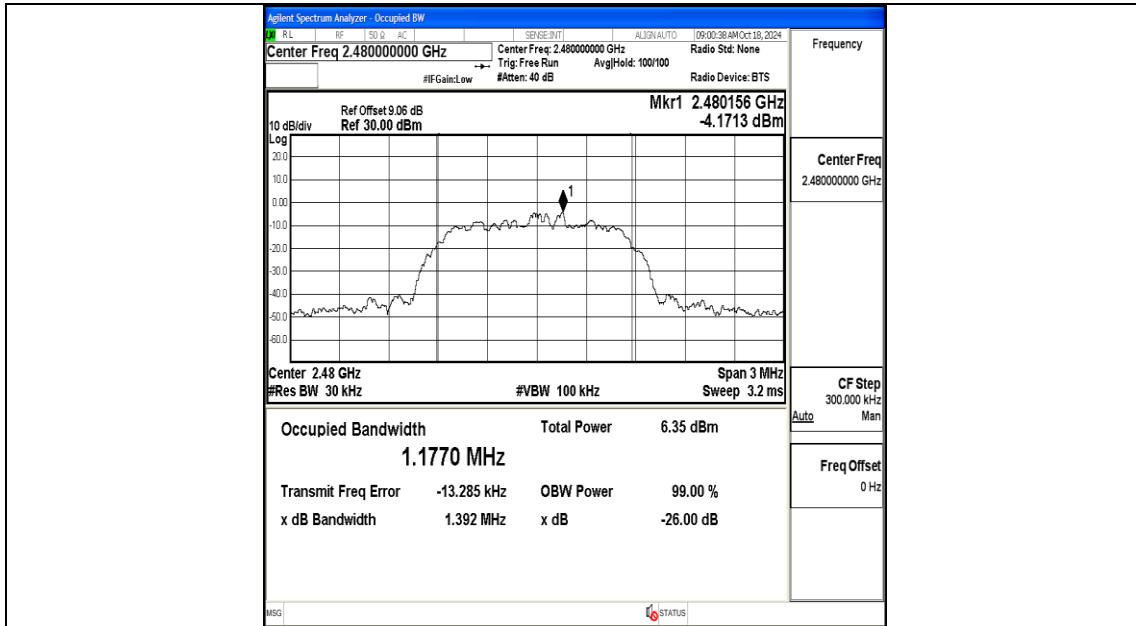
DH5-Ant1-2480



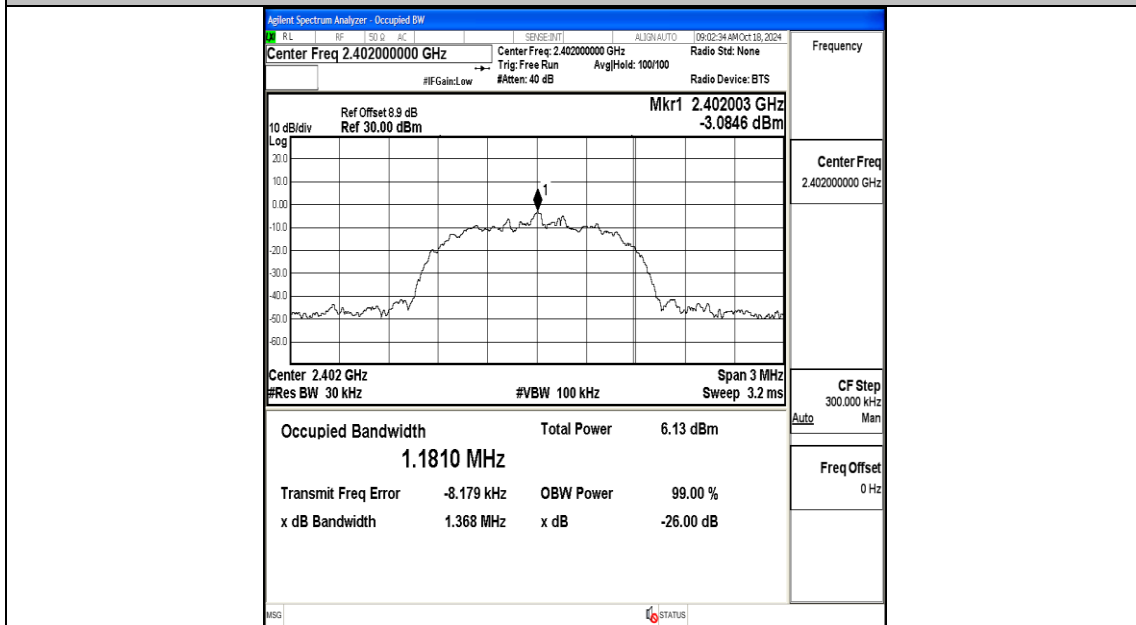
2DH5-Ant1-2402



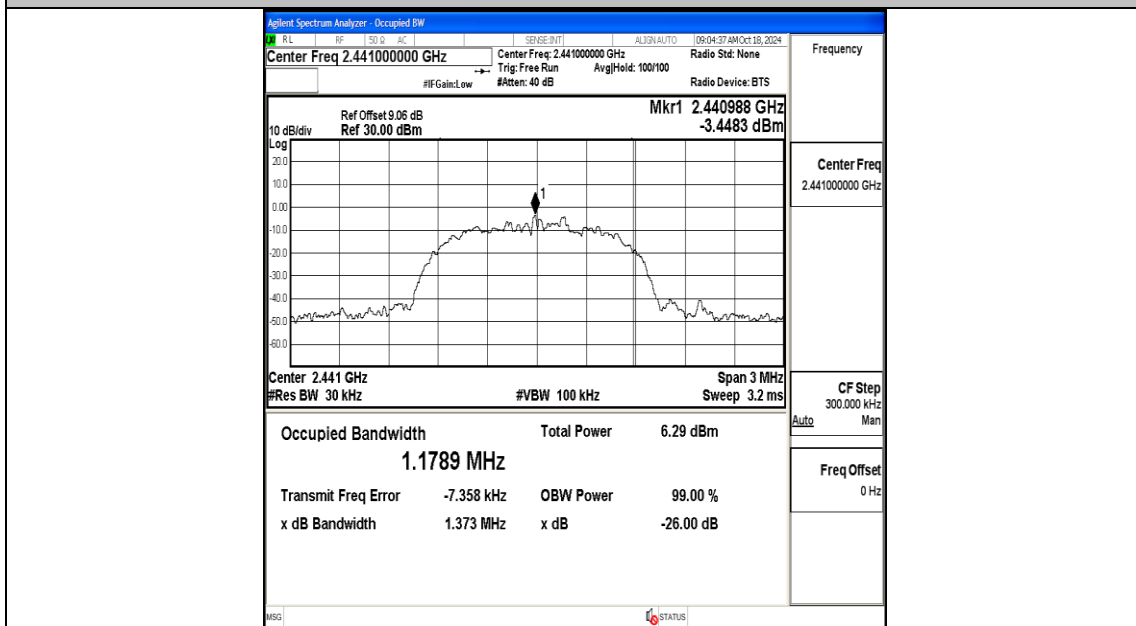
2DH5-Ant1-2441



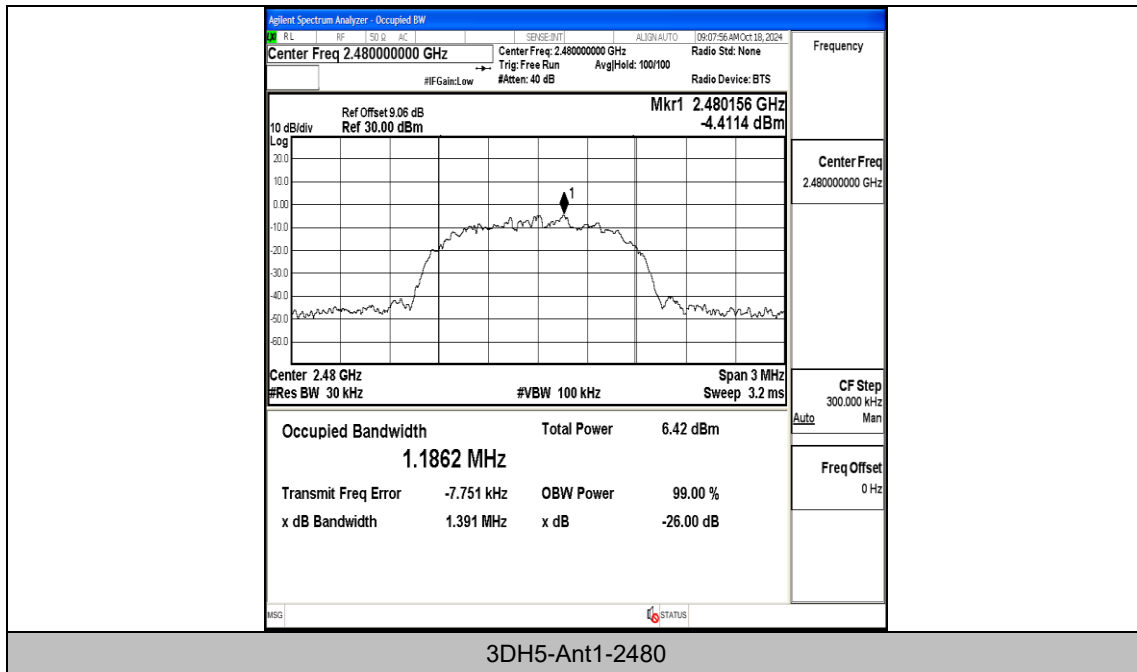
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



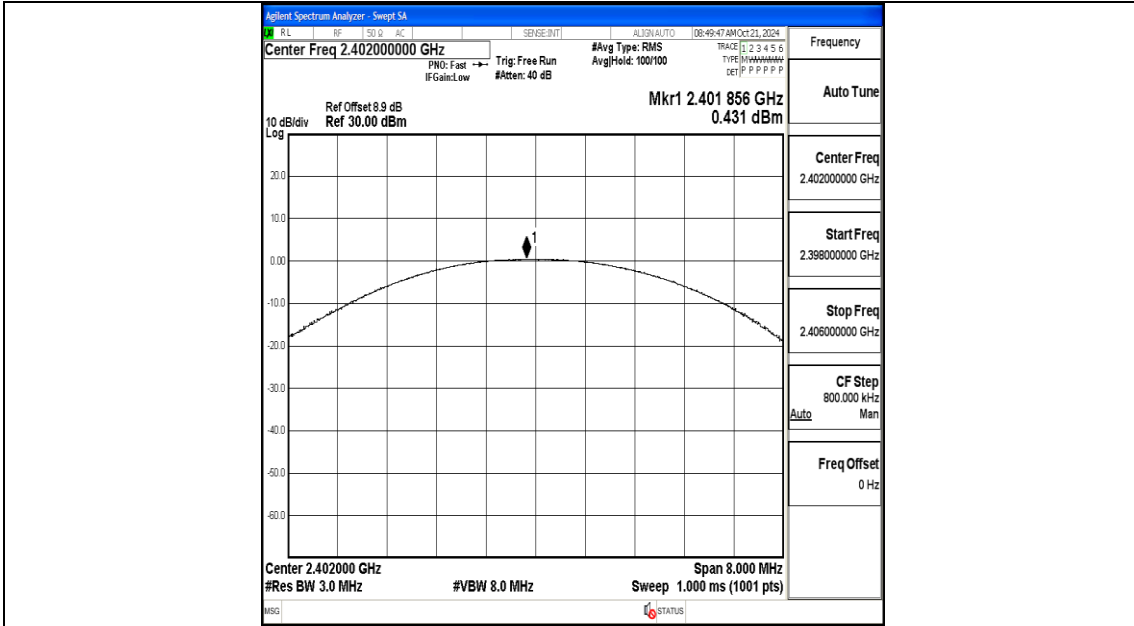
3DH5-Ant1-2480

Appendix C: Maximum peak conducted output power

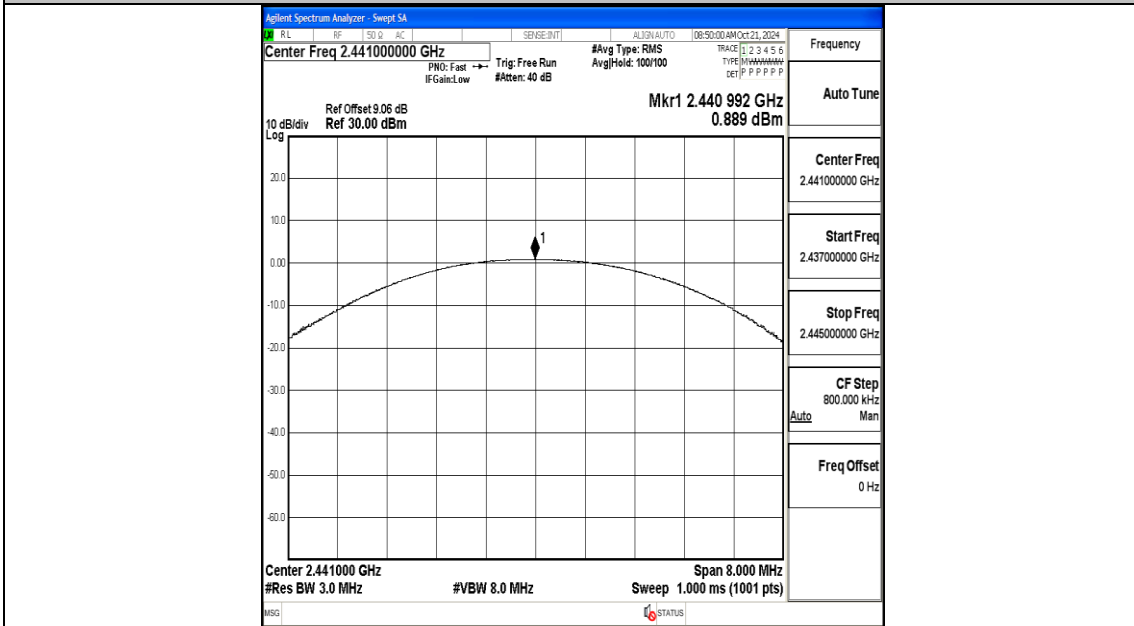
Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	0.43	≤30	PASS
DH5	Ant1	2441	0.89	≤30	PASS
DH5	Ant1	2480	1.53	≤30	PASS
2DH5	Ant1	2402	0.79	≤20.97	PASS
2DH5	Ant1	2441	1.69	≤20.97	PASS
2DH5	Ant1	2480	1.35	≤20.97	PASS
3DH5	Ant1	2402	1.26	≤20.97	PASS
3DH5	Ant1	2441	1.68	≤20.97	PASS
3DH5	Ant1	2480	2.01	≤20.97	PASS

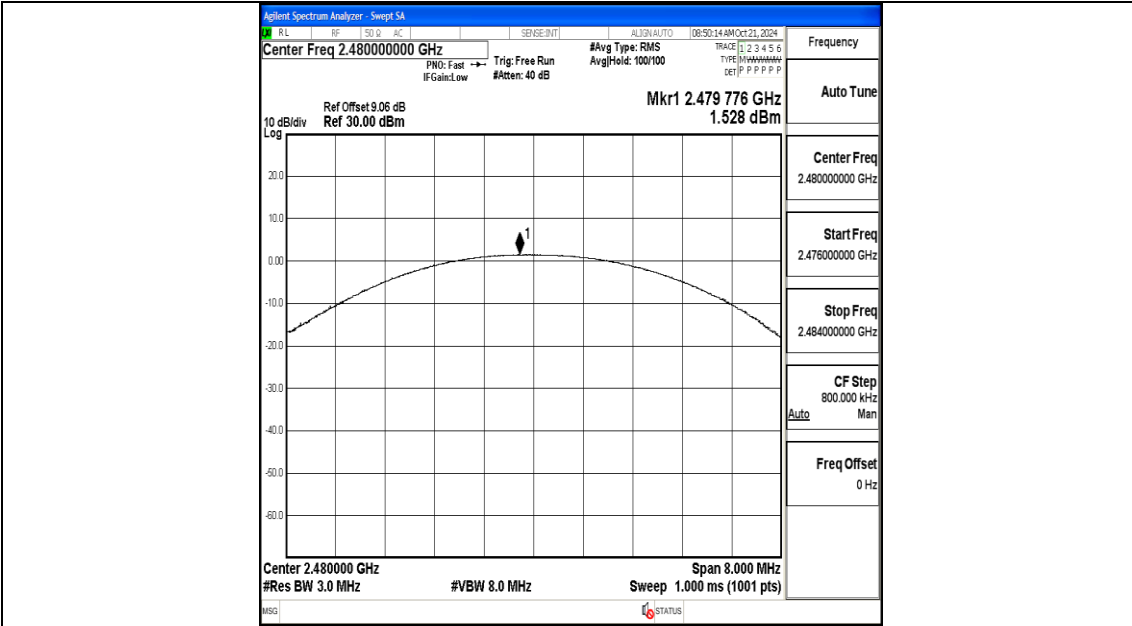
Test Graphs



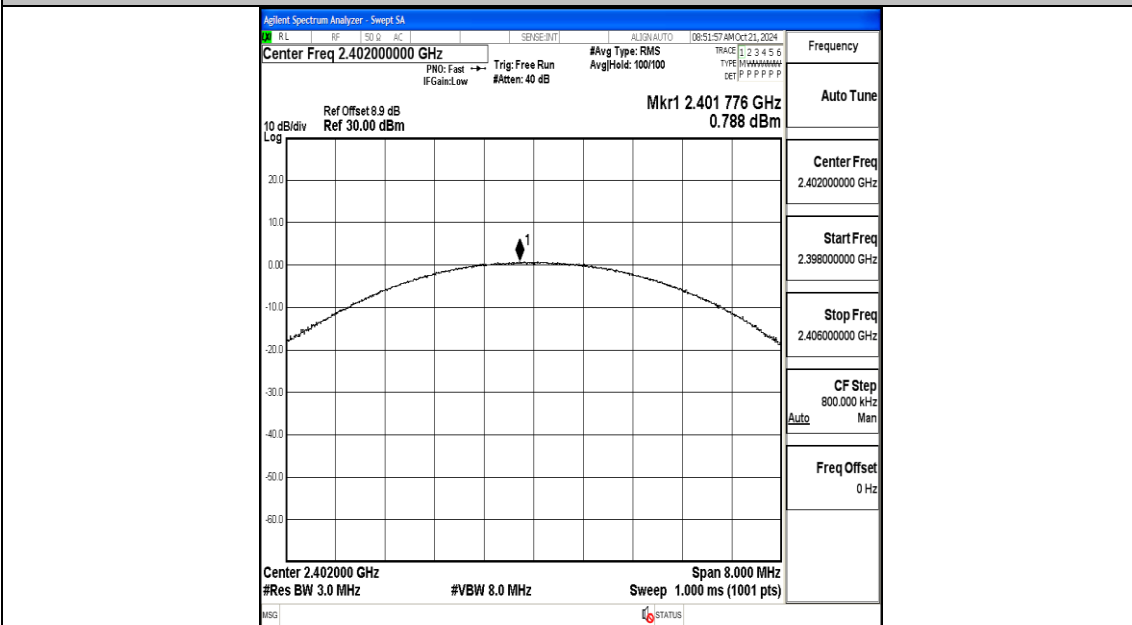
DH5-Ant1-2402-PASS



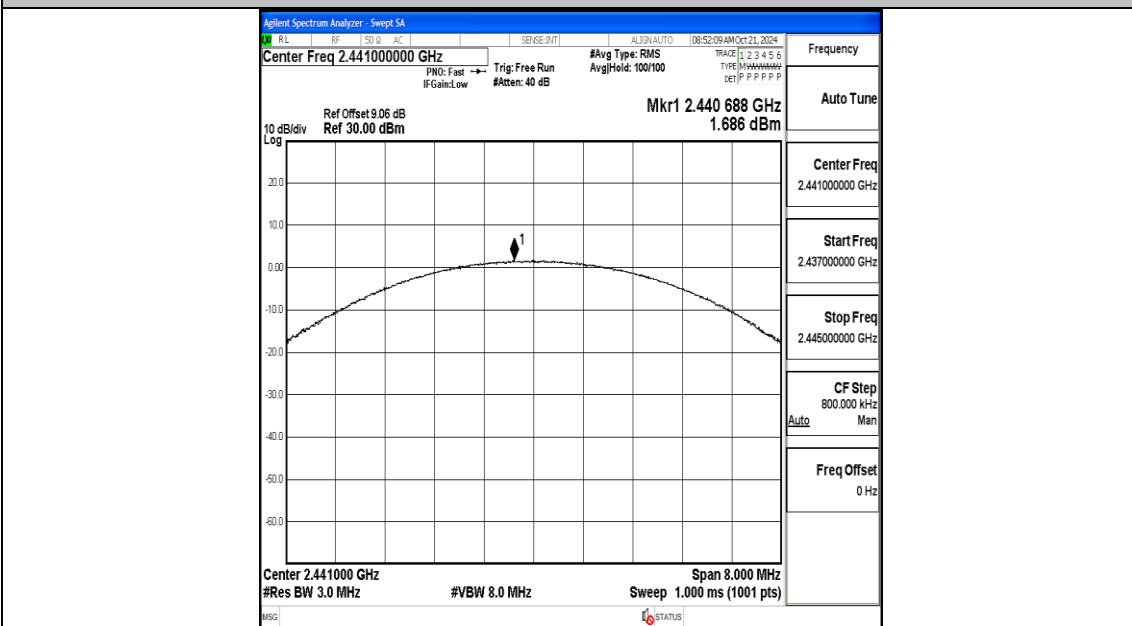
DH5-Ant1-2441-PASS



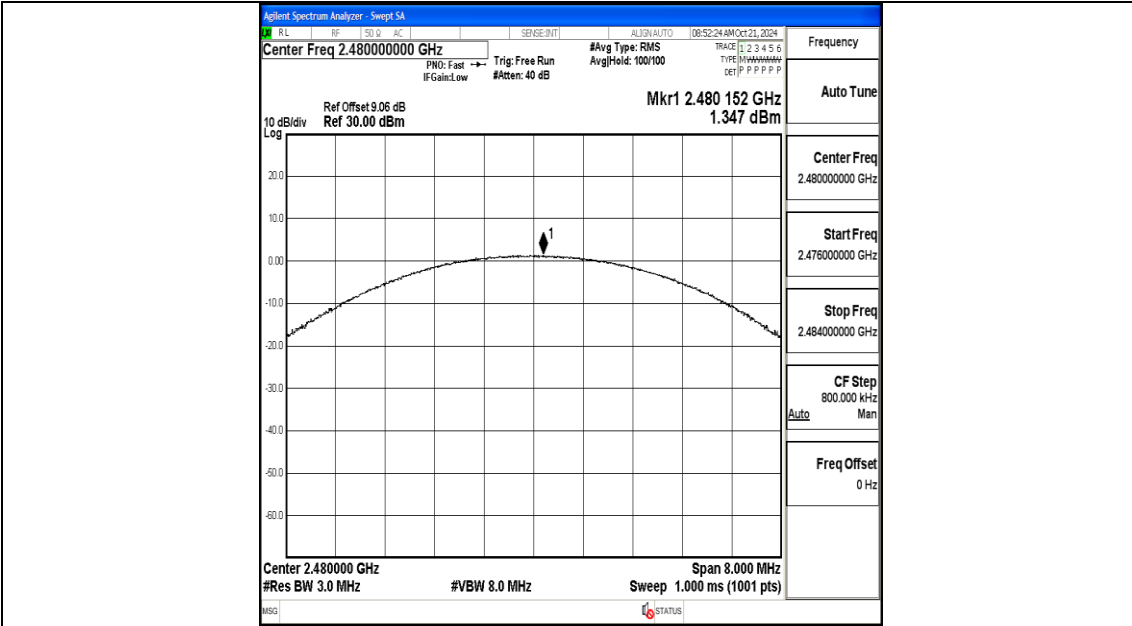
DH5-Ant1-2480-PASS



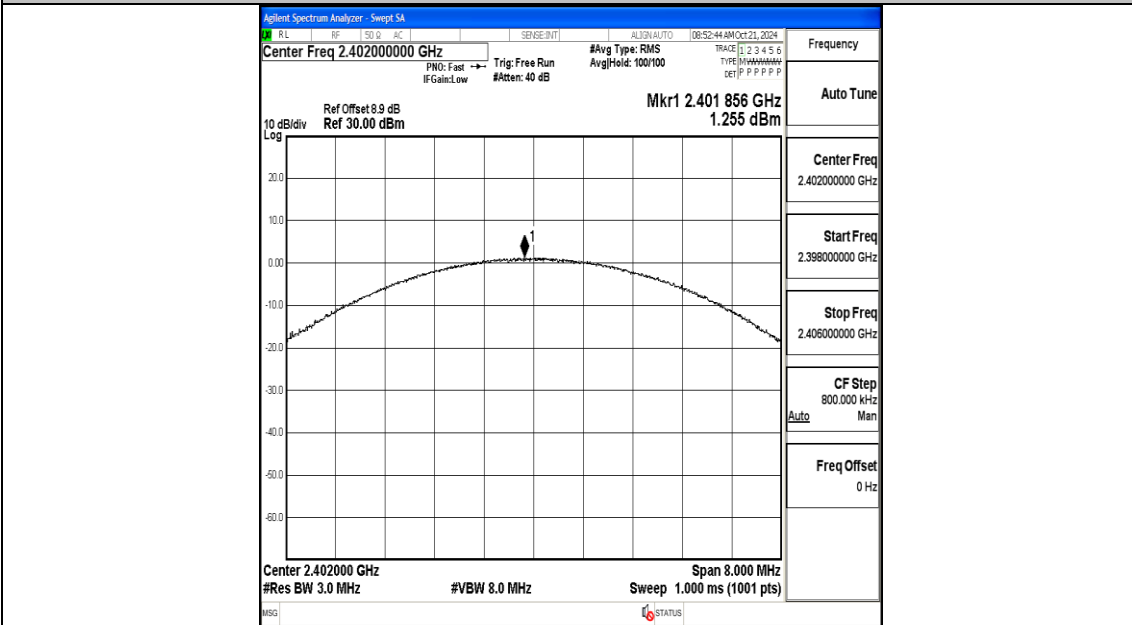
2DH5-Ant1-2402-PASS



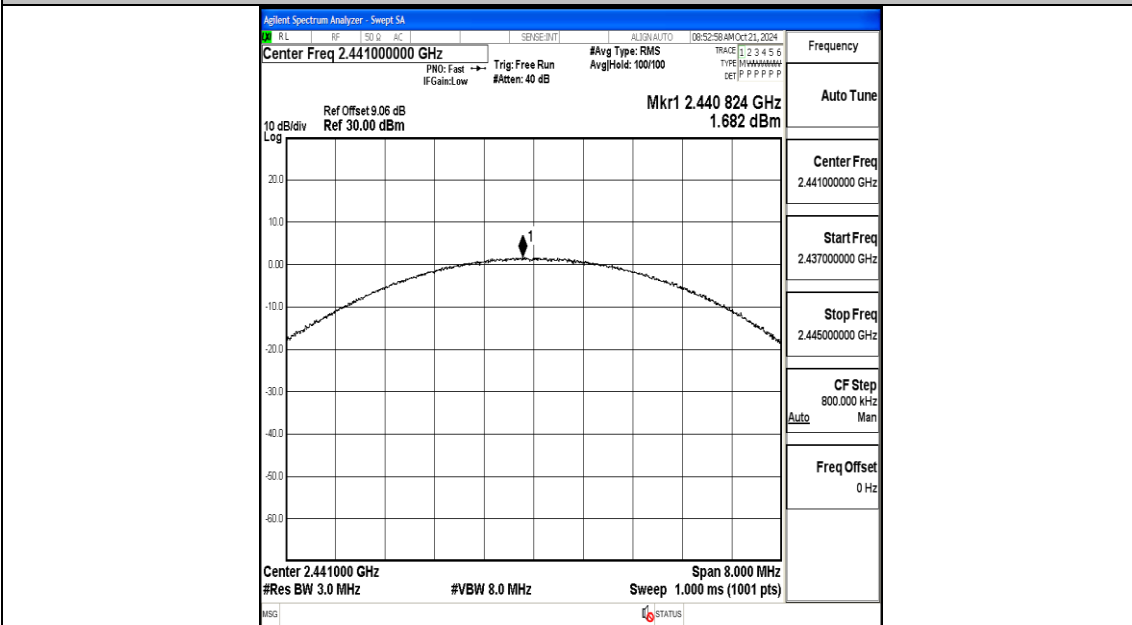
2DH5-Ant1-2441-PASS



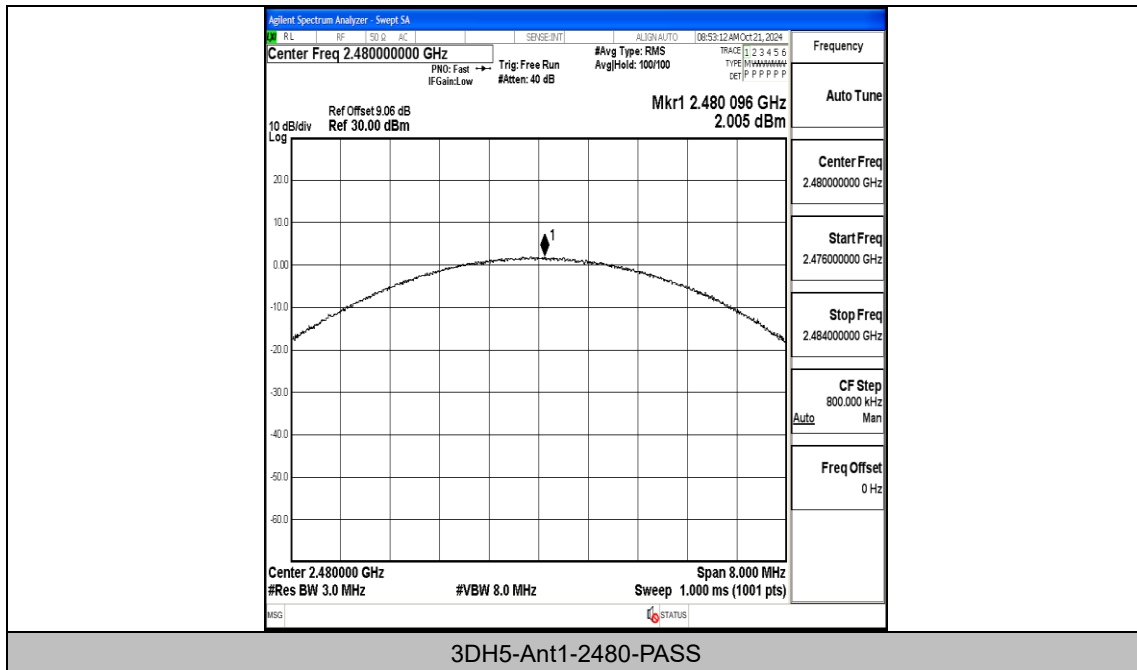
2DH5-Ant1-2480-PASS



3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS

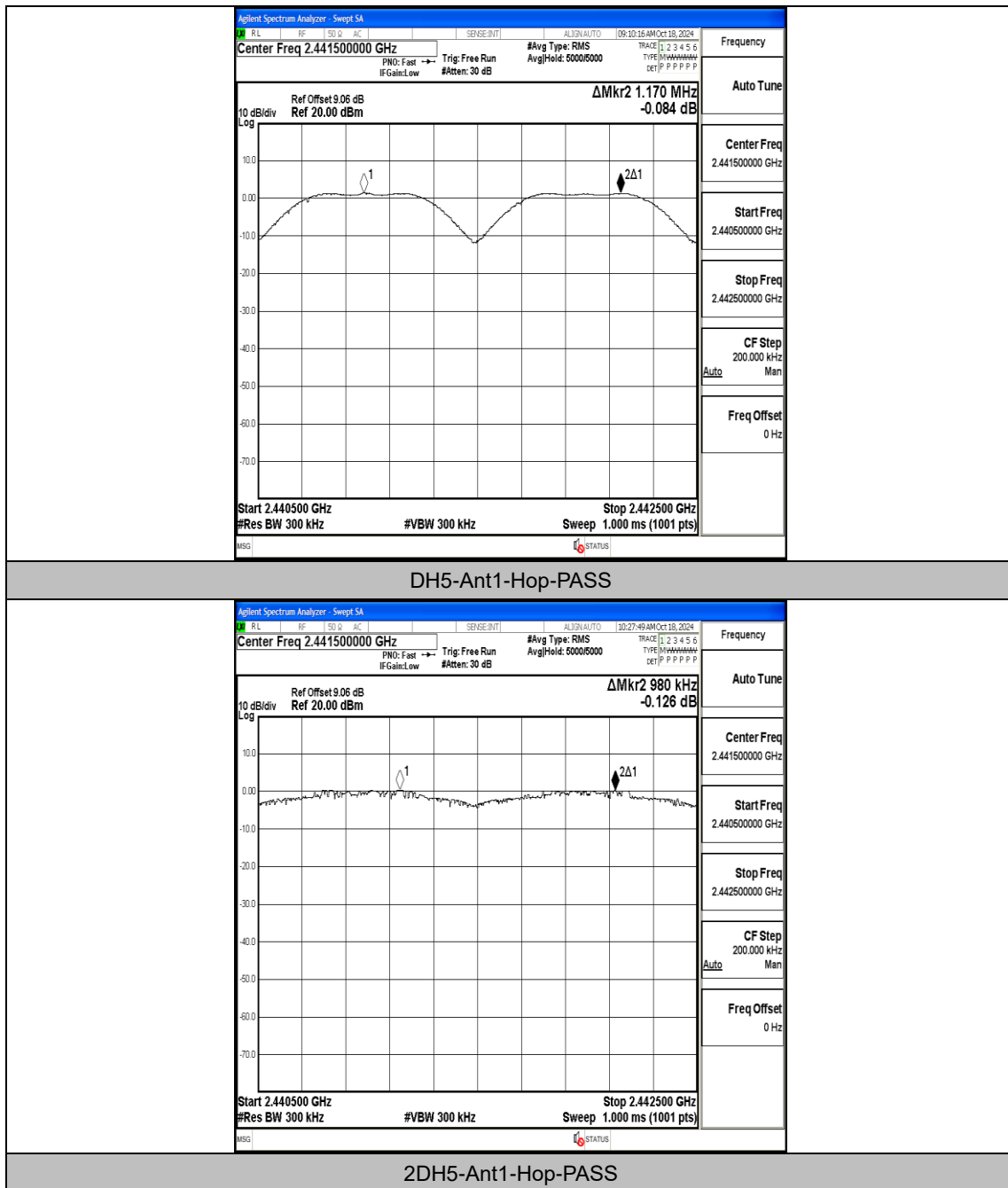


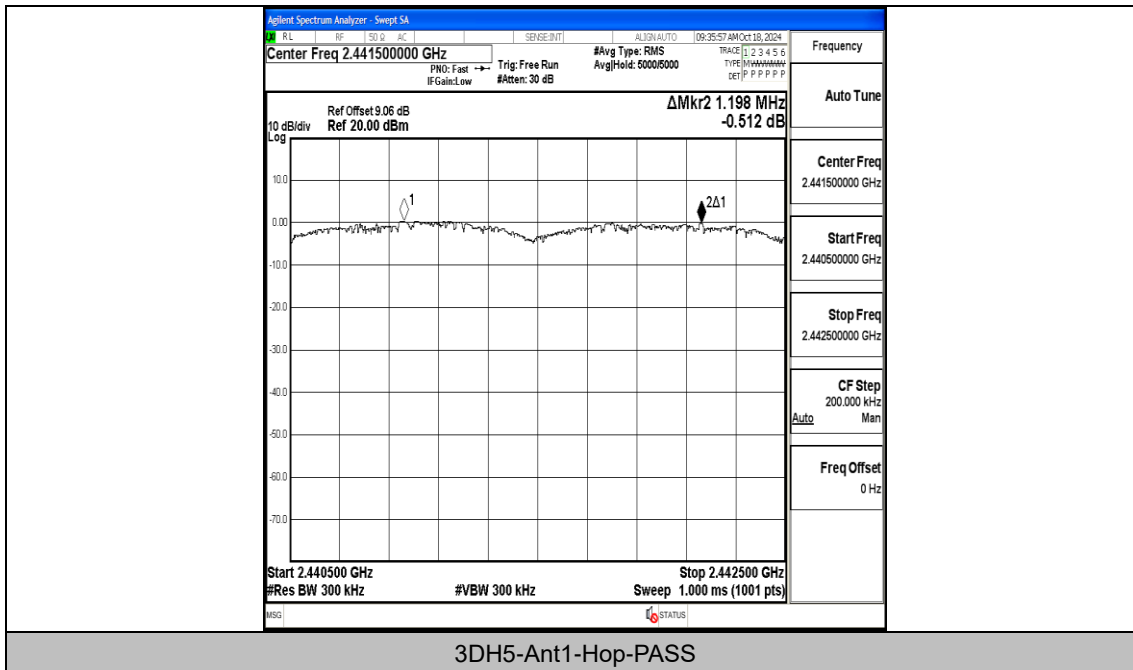
Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.17	≥ 0.966	PASS
2DH5	Ant1	Hop	0.98	≥ 0.880	PASS
3DH5	Ant1	Hop	1.198	≥ 0.874	PASS

Test Graphs



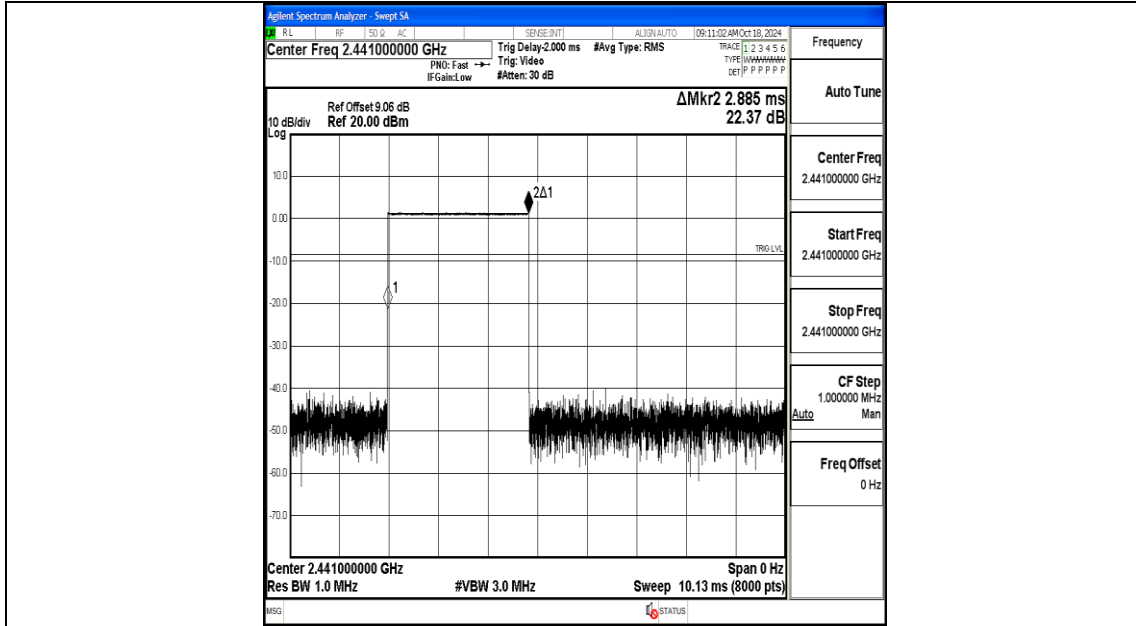


Appendix E: Time of occupancy

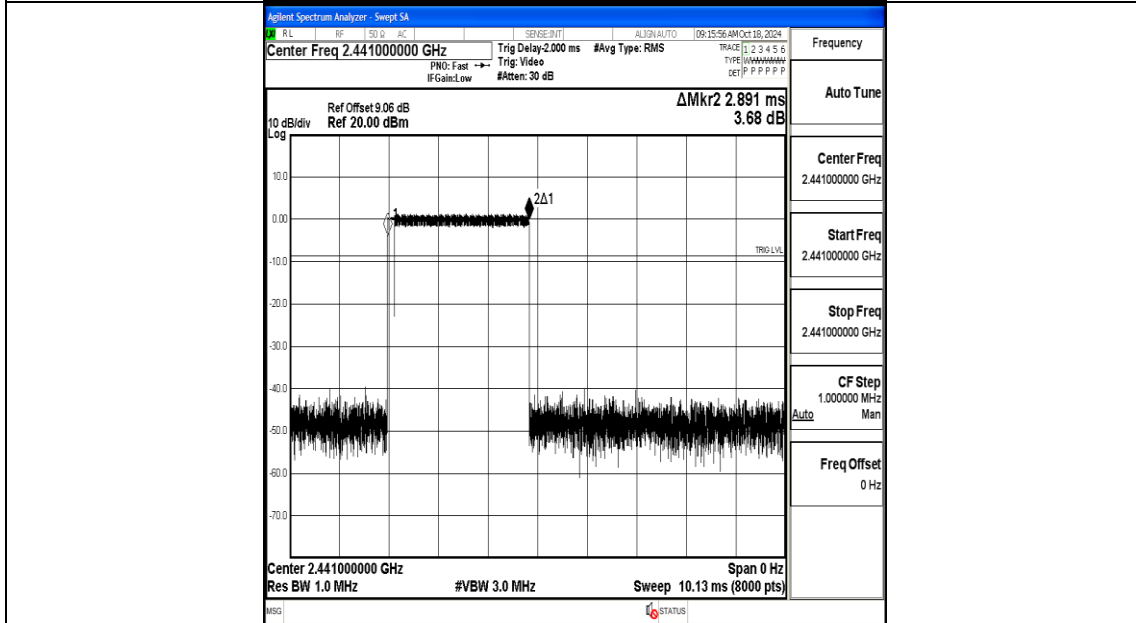
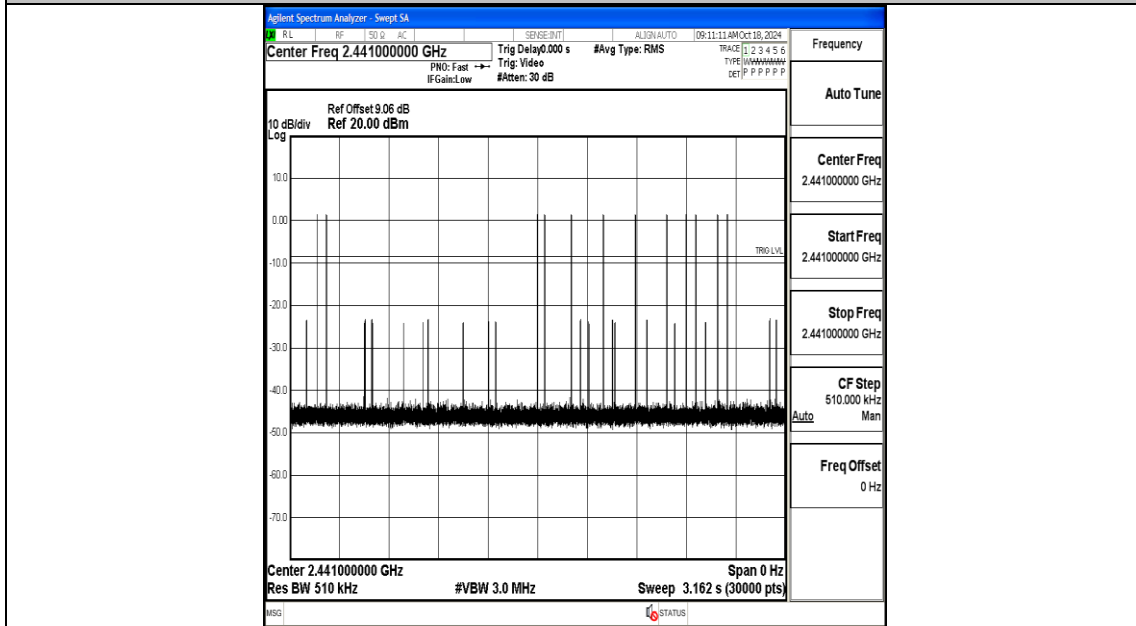
Test Result

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	2.891	100	0.289	≤0.4	PASS
3DH5	Ant1	Hop	2.892	110	0.318	≤0.4	PASS

Test Graphs



DH5-Ant1-Hop-PASS

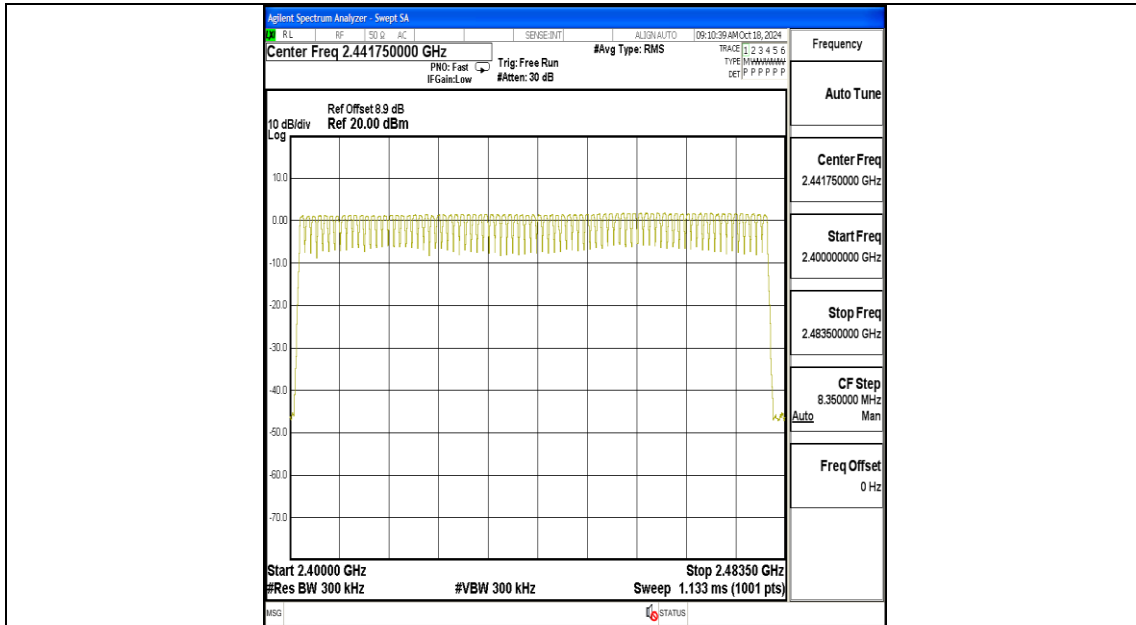


Appendix F: Number of hopping channels

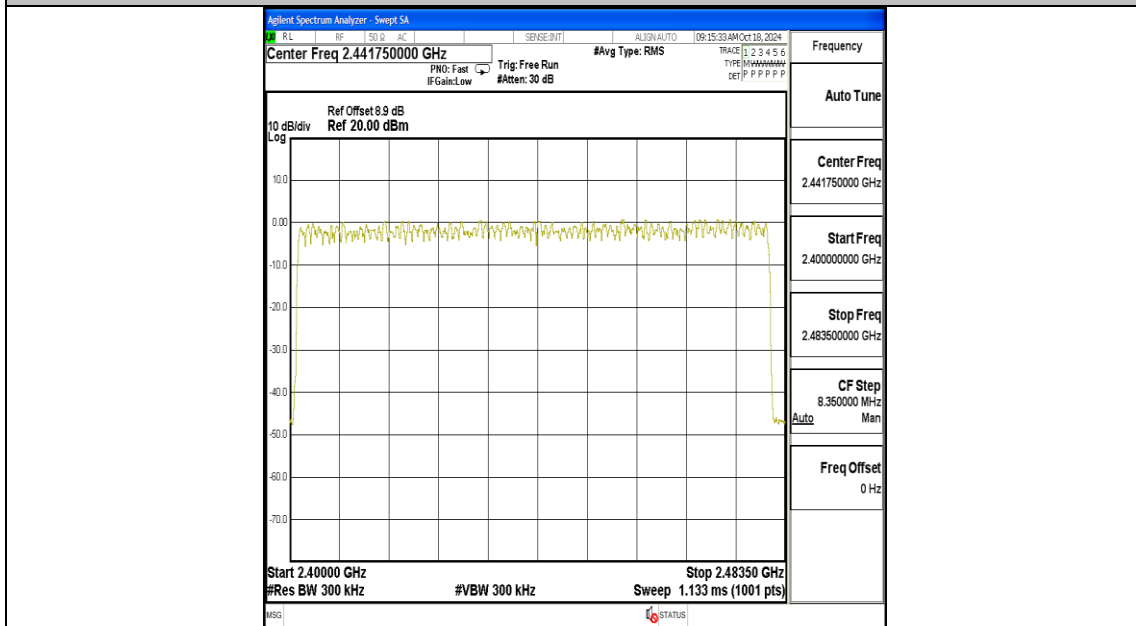
Test Result

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

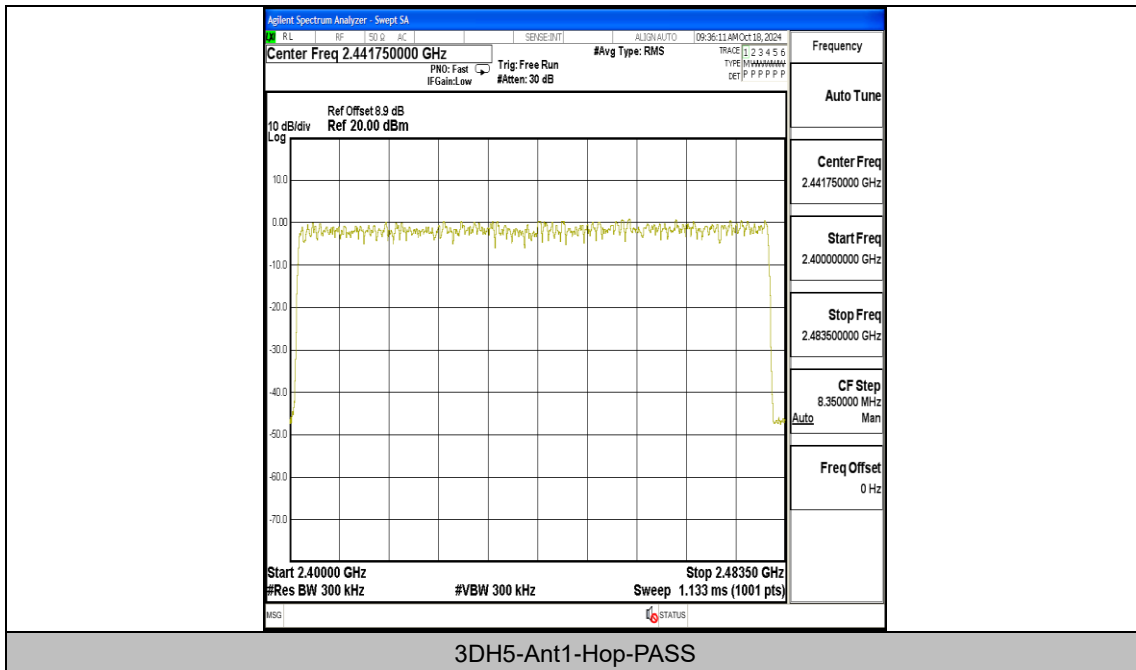
Test Graphs



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS

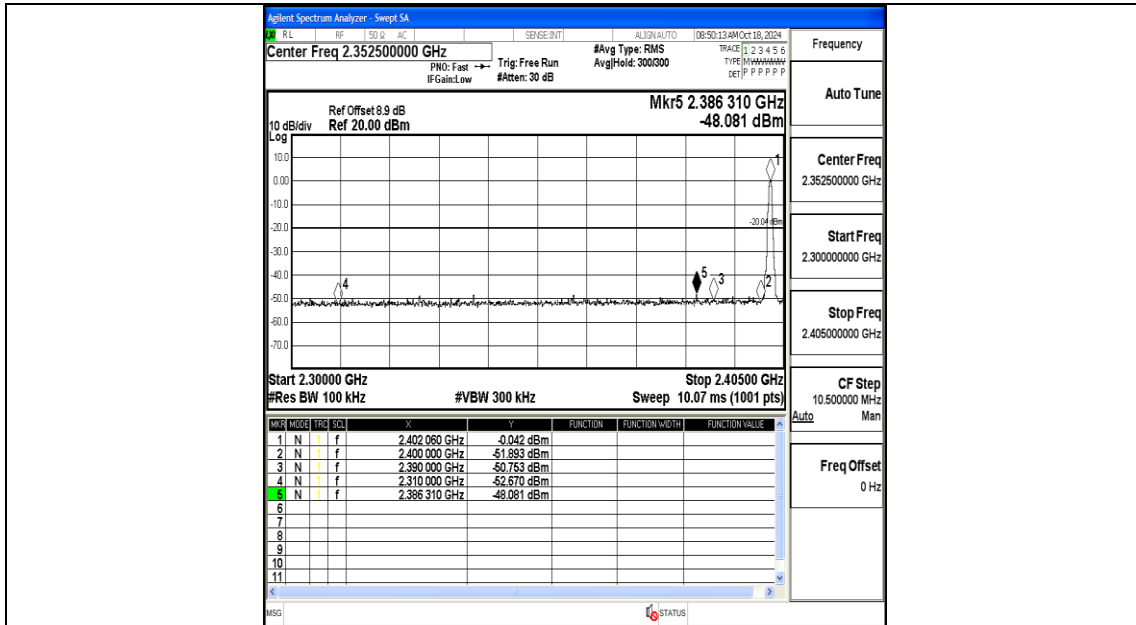


Appendix G: Band edge measurements

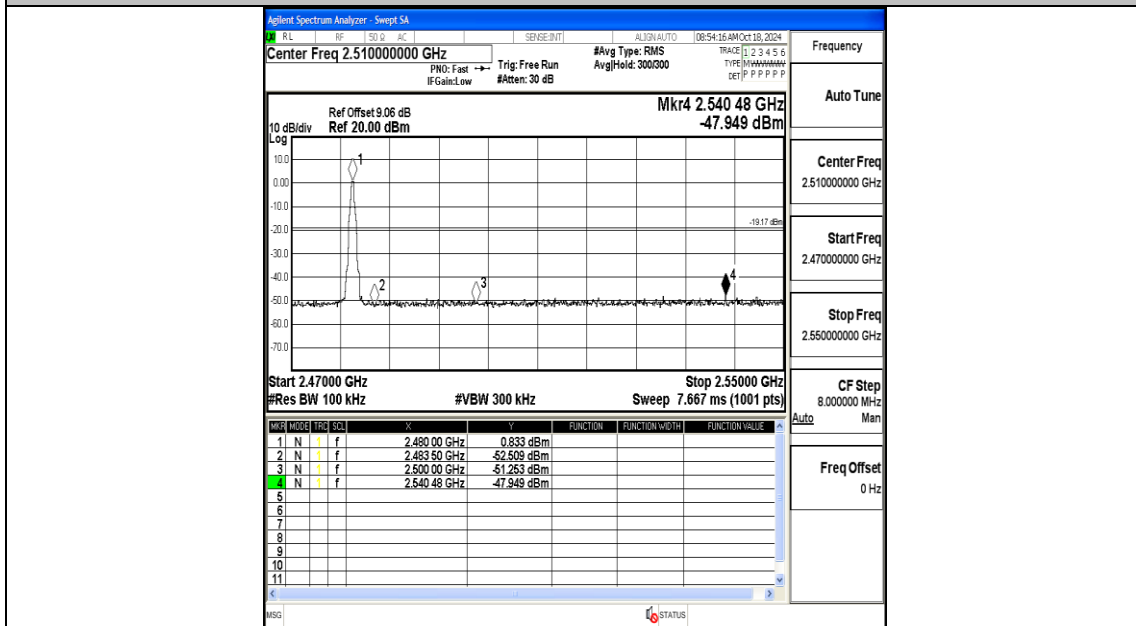
Test Result

Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.04	-48.08	≤-20.04	PASS
DH5	Ant1	High	2480	0.83	-47.95	≤-19.17	PASS
DH5	Ant1	Low	Hop_2402	-1.03	-48.91	≤-21.03	PASS
DH5	Ant1	High	Hop_2480	1.18	-48.54	≤-18.82	PASS
2DH5	Ant1	Low	2402	-0.83	-48.95	≤-20.83	PASS
2DH5	Ant1	High	2480	-0.22	-48.6	≤-20.22	PASS
2DH5	Ant1	Low	Hop_2402	-2.03	-49.25	≤-22.03	PASS
2DH5	Ant1	High	Hop_2480	-0.35	-48.75	≤-20.35	PASS
3DH5	Ant1	Low	2402	-0.70	-48.96	≤-20.7	PASS
3DH5	Ant1	High	2480	-0.33	-47.8	≤-20.33	PASS
3DH5	Ant1	Low	Hop_2402	-4.15	-48.79	≤-24.15	PASS
3DH5	Ant1	High	Hop_2480	-2.14	-47.36	≤-22.14	PASS

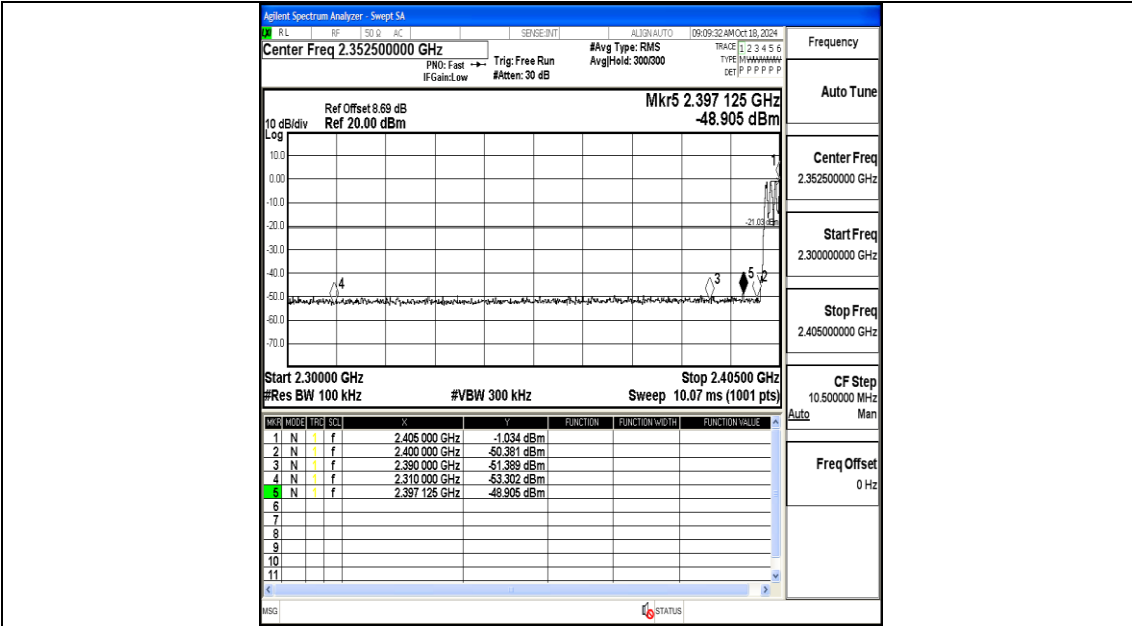
Test Graphs



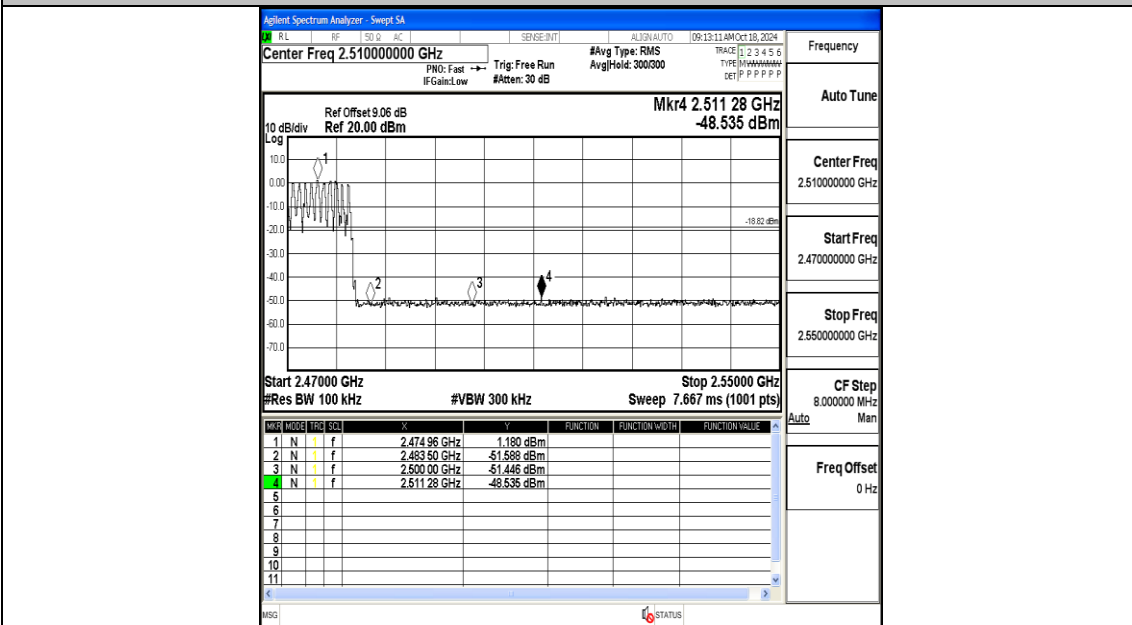
DH5-Ant1-2402-PASS



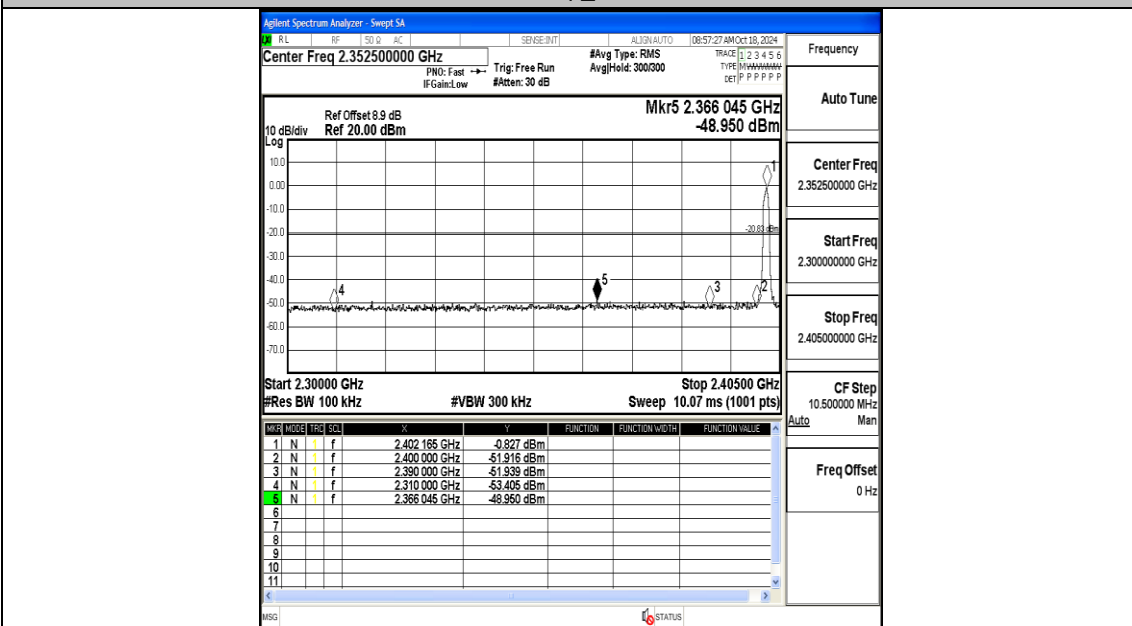
DH5-Ant1-2480-PASS



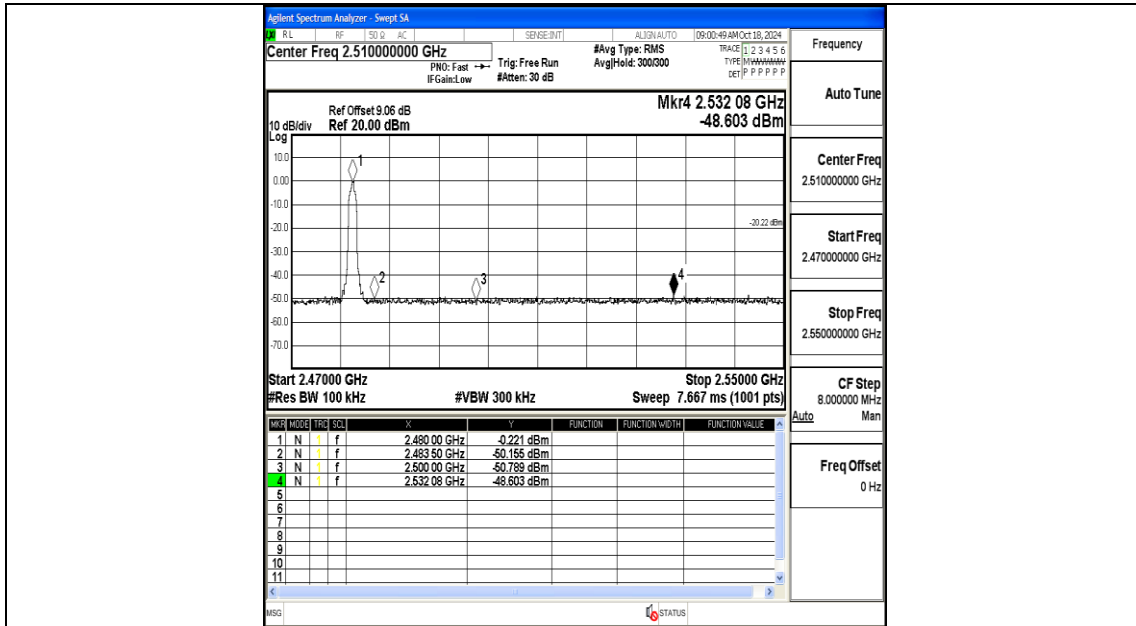
DH5-Ant1-Hop_2402-PASS



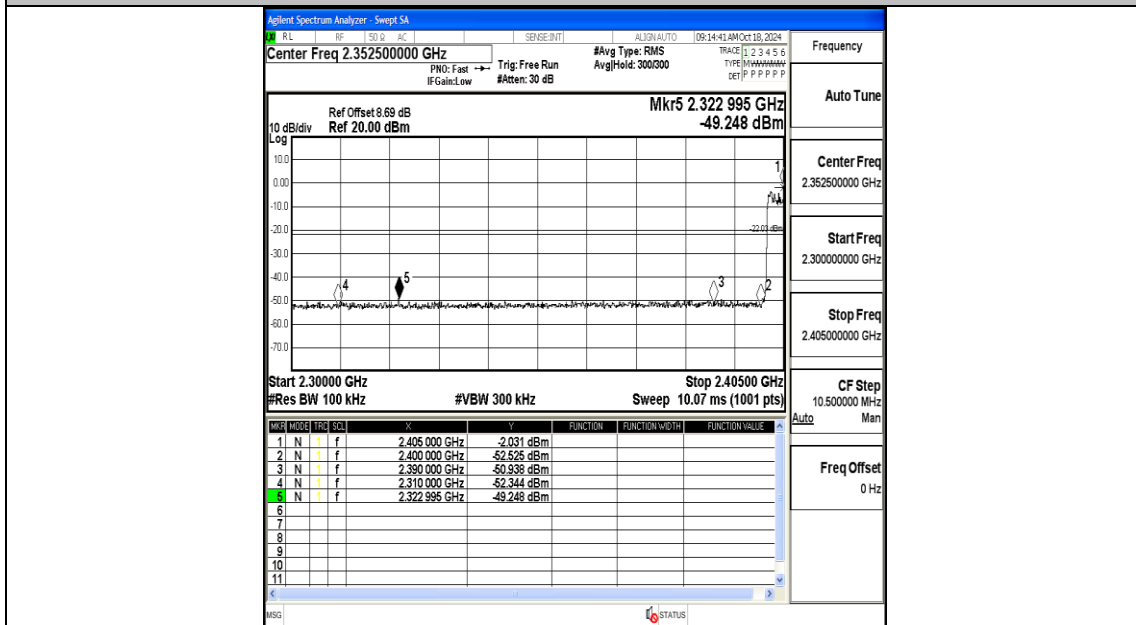
DH5-Ant1-Hop_2480-PASS



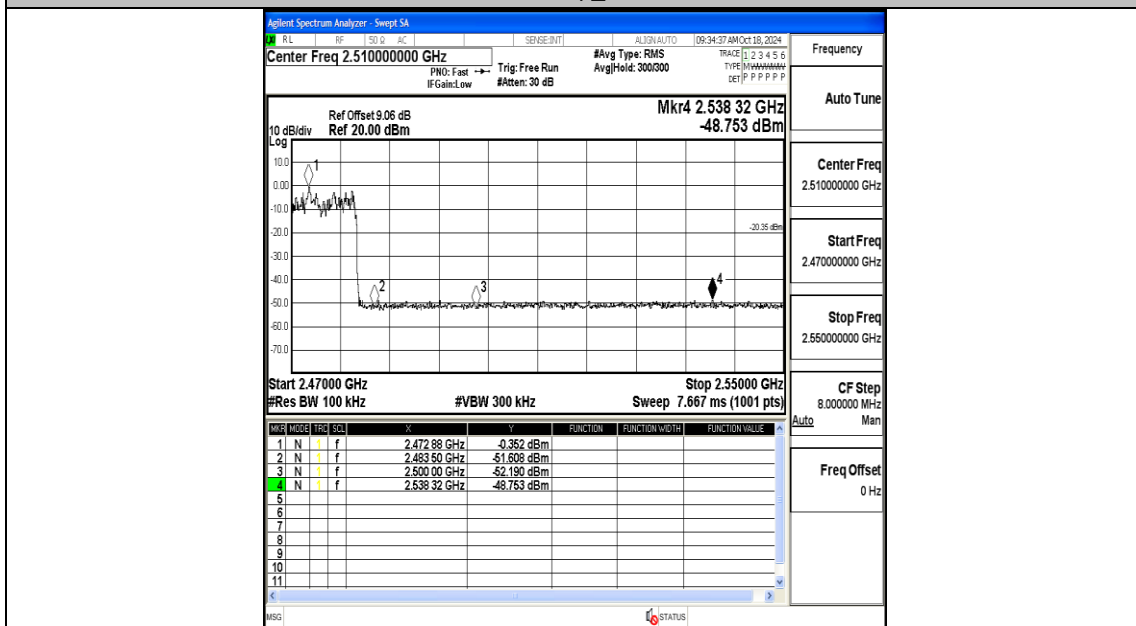
2DH5-Ant1-2402-PASS



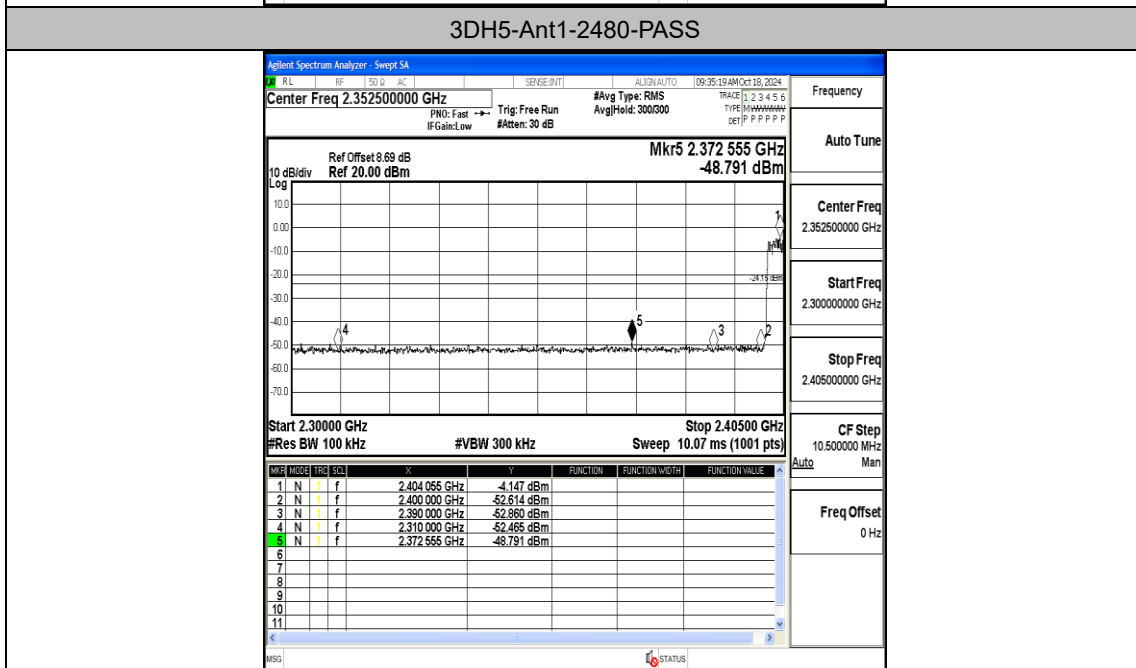
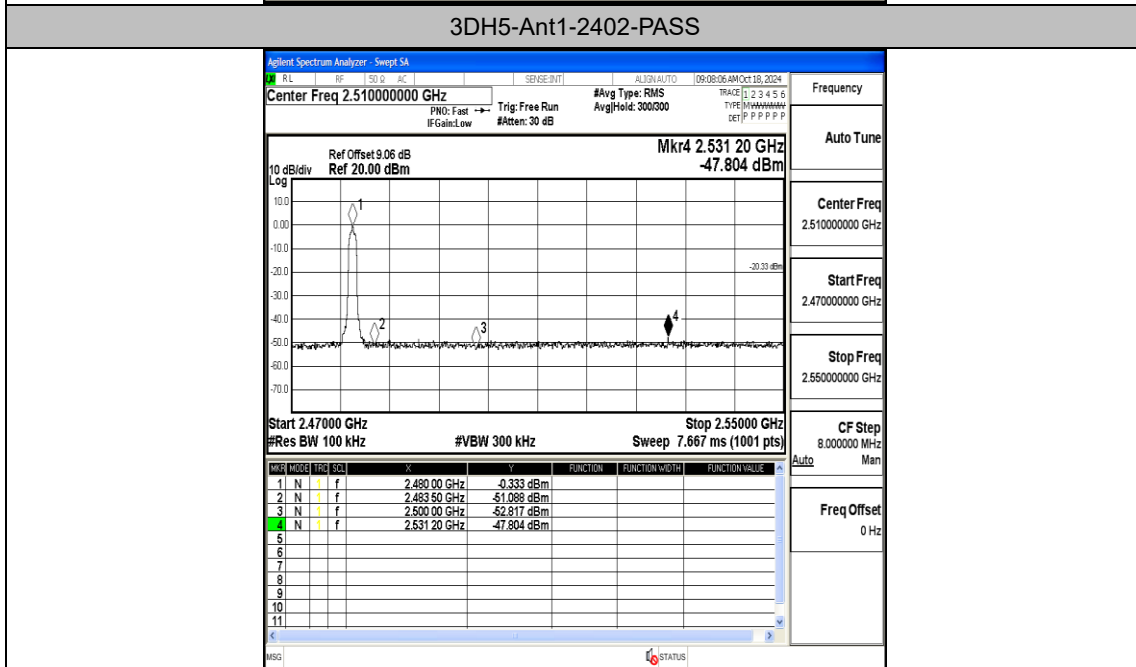
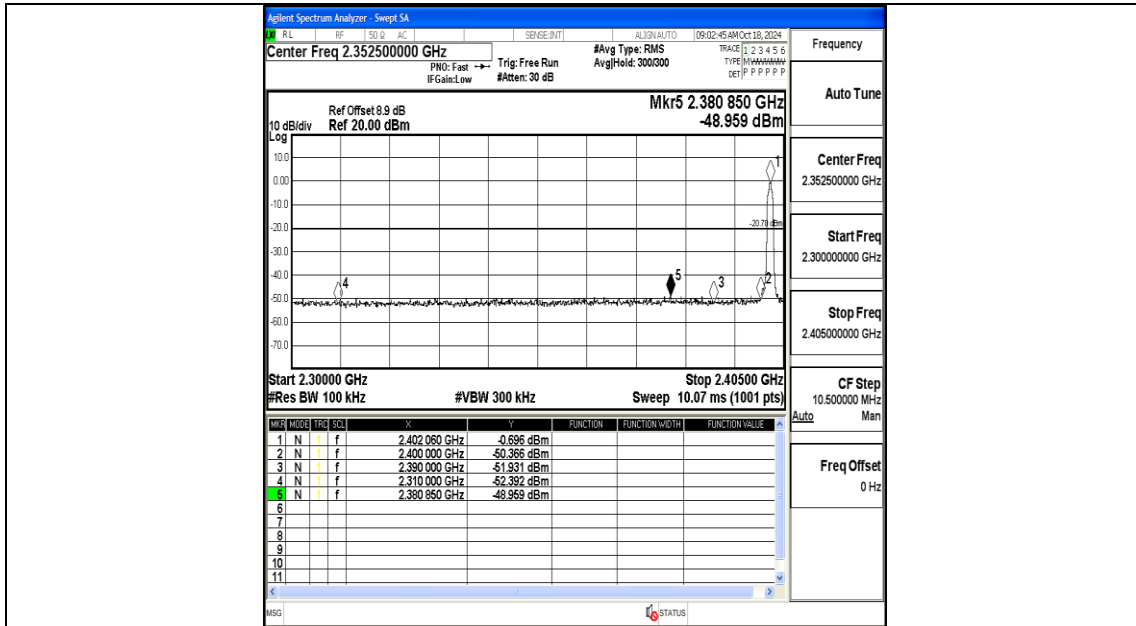
2DH5-Ant1-2480-PASS

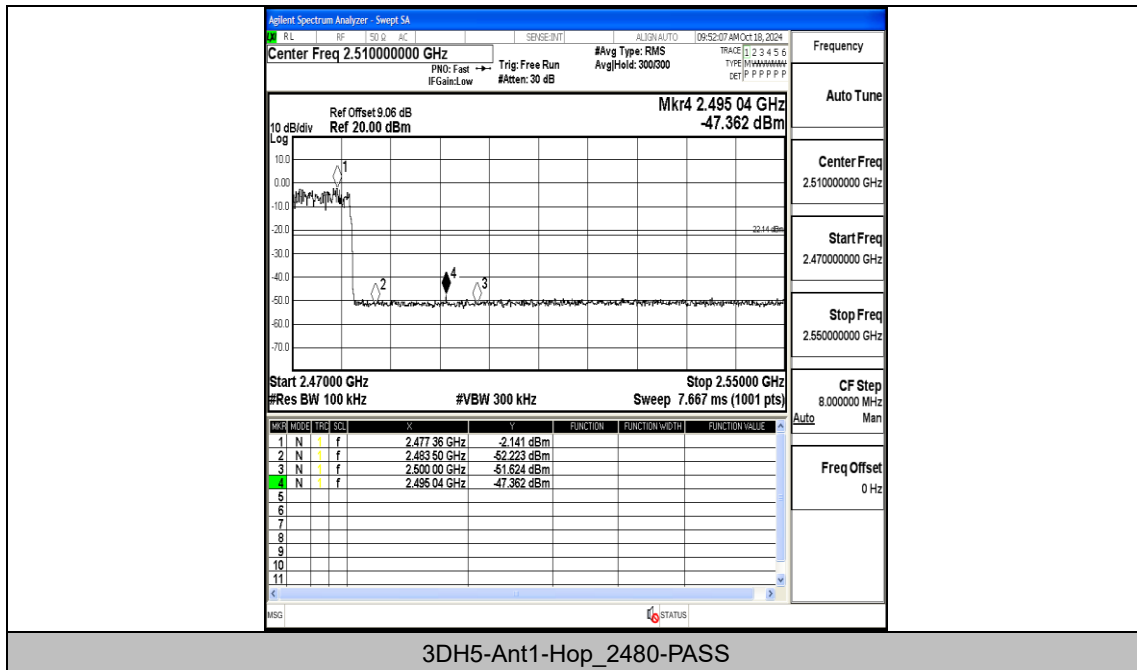


2DH5-Ant1-Hop_2402-PASS



2DH5-Ant1-Hop_2480-PASS



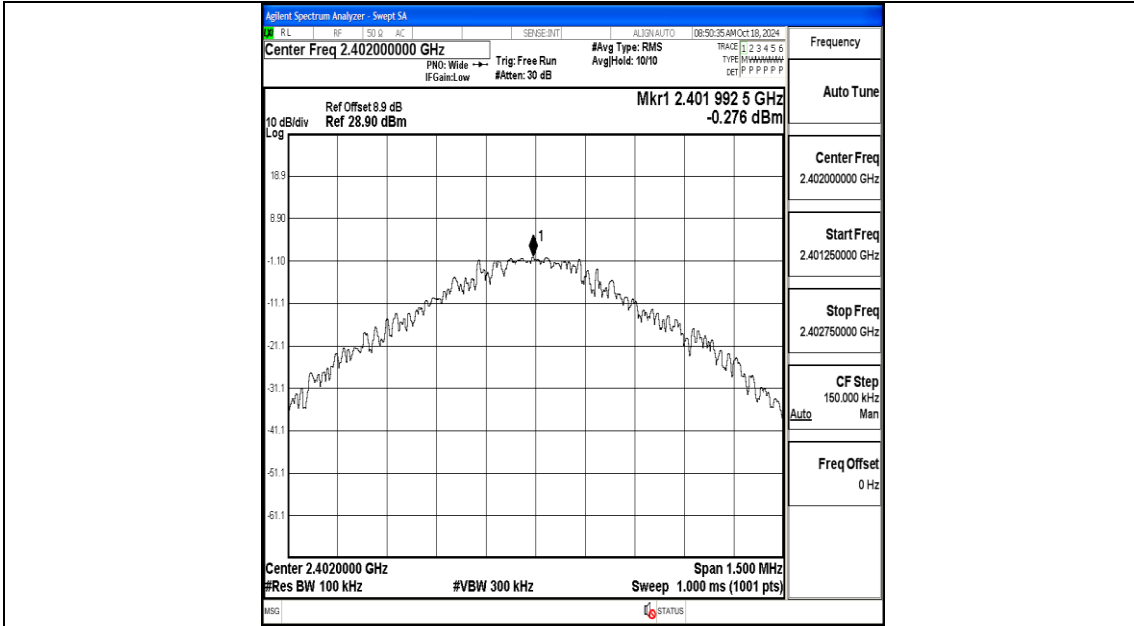


Appendix H: Conducted Spurious Emission

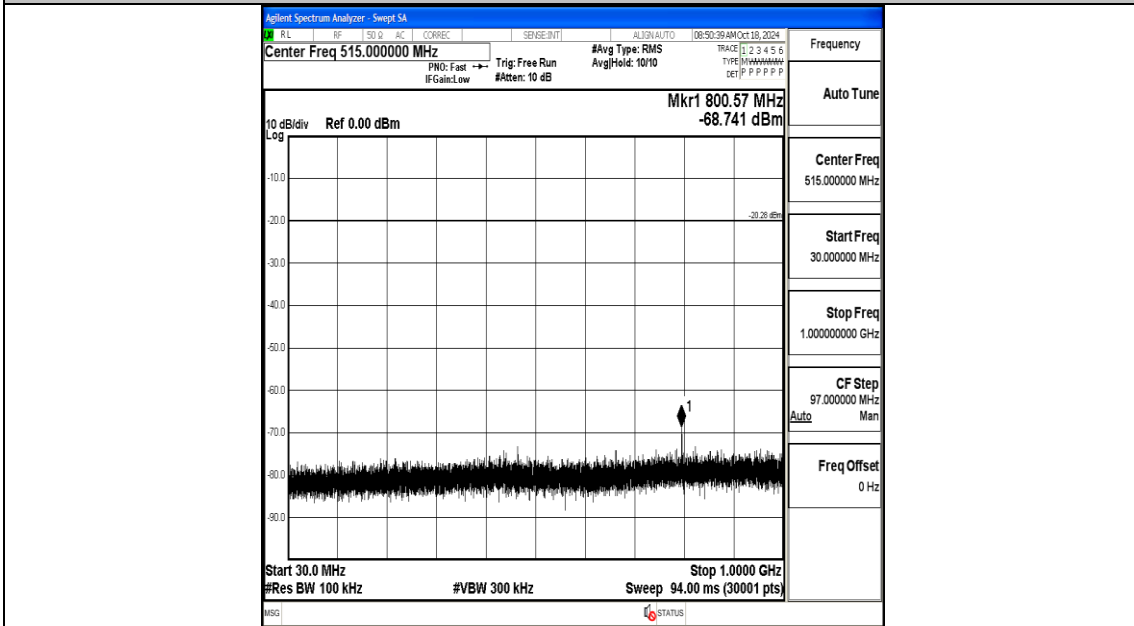
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-0.28	-0.28	---	PASS
DH5	Ant1	2402	30~1000	-0.28	-68.74	≤-20.28	PASS
DH5	Ant1	2402	1000~26500	-0.28	-48.23	≤-20.28	PASS
DH5	Ant1	2441	0~Reference	0.10	0.10	---	PASS
DH5	Ant1	2441	30~1000	0.10	-70.72	≤-19.9	PASS
DH5	Ant1	2441	1000~26500	0.10	-50.5	≤-19.9	PASS
DH5	Ant1	2480	0~Reference	0.18	0.18	---	PASS
DH5	Ant1	2480	30~1000	0.18	-72.06	≤-19.82	PASS
DH5	Ant1	2480	1000~26500	0.18	-55.81	≤-19.82	PASS
2DH5	Ant1	2402	0~Reference	-2.88	-2.88	---	PASS
2DH5	Ant1	2402	30~1000	-2.88	-69.31	≤-22.88	PASS
2DH5	Ant1	2402	1000~26500	-2.88	-51.86	≤-22.88	PASS
2DH5	Ant1	2441	0~Reference	-4.21	-4.21	---	PASS
2DH5	Ant1	2441	30~1000	-4.21	-71.04	≤-24.21	PASS
2DH5	Ant1	2441	1000~26500	-4.21	-45.19	≤-24.21	PASS
2DH5	Ant1	2480	0~Reference	-2.83	-2.83	---	PASS
2DH5	Ant1	2480	30~1000	-2.83	-71.36	≤-22.83	PASS
2DH5	Ant1	2480	1000~26500	-2.83	-44.55	≤-22.83	PASS
3DH5	Ant1	2402	0~Reference	-1.61	-1.61	---	PASS
3DH5	Ant1	2402	30~1000	-1.61	-71.34	≤-21.61	PASS
3DH5	Ant1	2402	1000~26500	-1.61	-51.4	≤-21.61	PASS
3DH5	Ant1	2441	0~Reference	-3.10	-3.10	---	PASS
3DH5	Ant1	2441	30~1000	-3.10	-72.24	≤-23.1	PASS
3DH5	Ant1	2441	1000~26500	-3.10	-53.68	≤-23.1	PASS
3DH5	Ant1	2480	0~Reference	-2.76	-2.76	---	PASS
3DH5	Ant1	2480	30~1000	-2.76	-72.39	≤-22.76	PASS
3DH5	Ant1	2480	1000~26500	-2.76	-55.32	≤-22.76	PASS

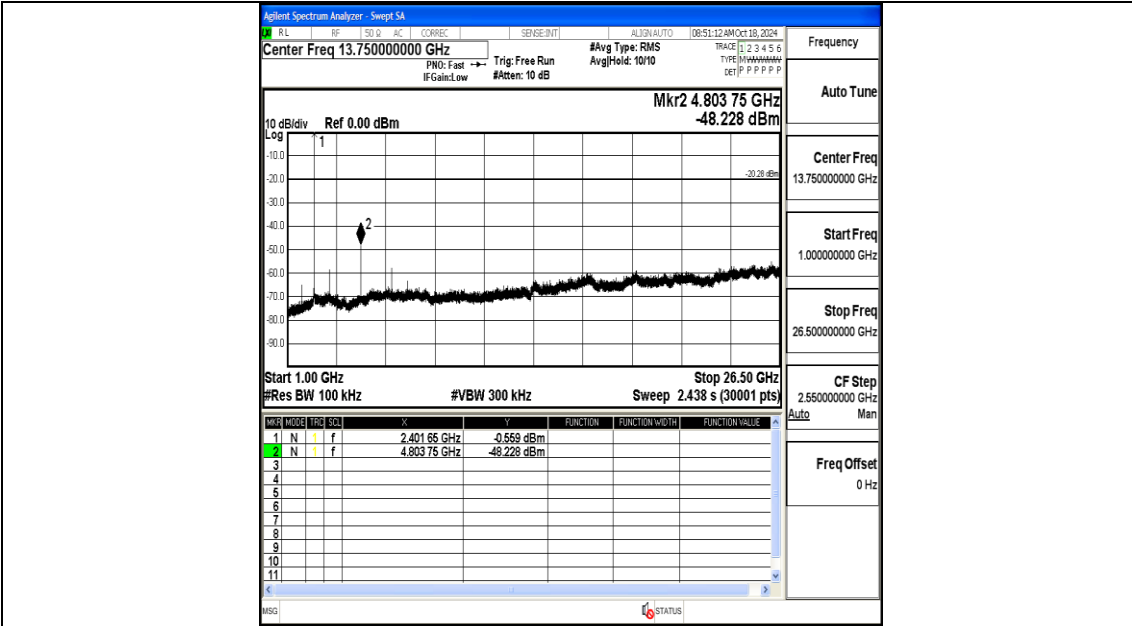
Test Graphs



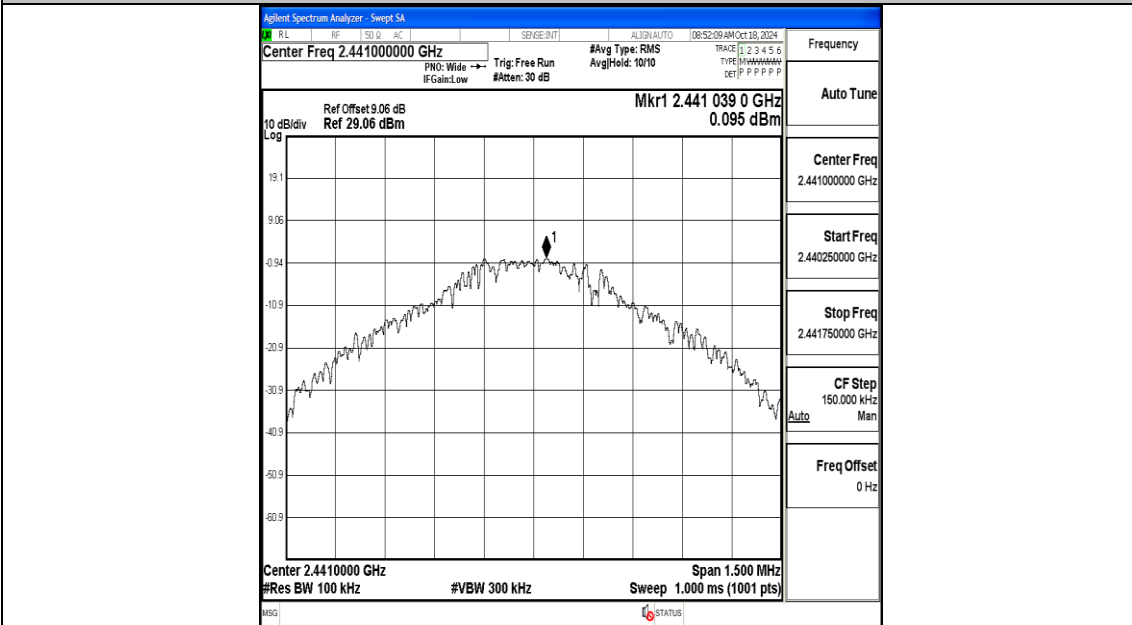
DH5-Ant1-2402-0~Reference-PASS



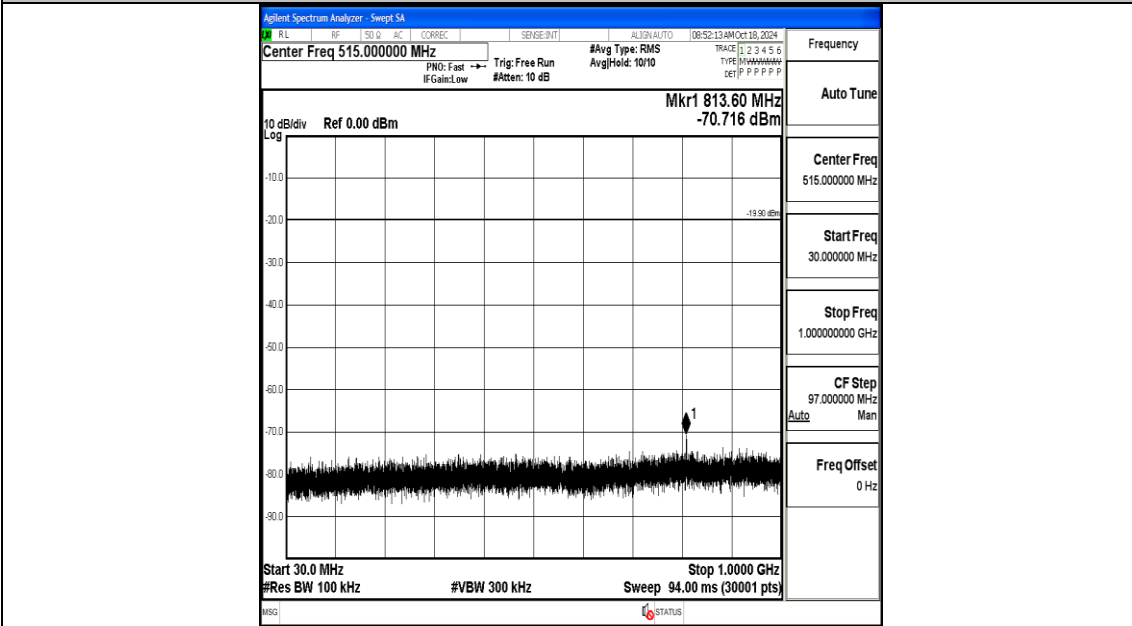
DH5-Ant1-2402-30~1000-PASS



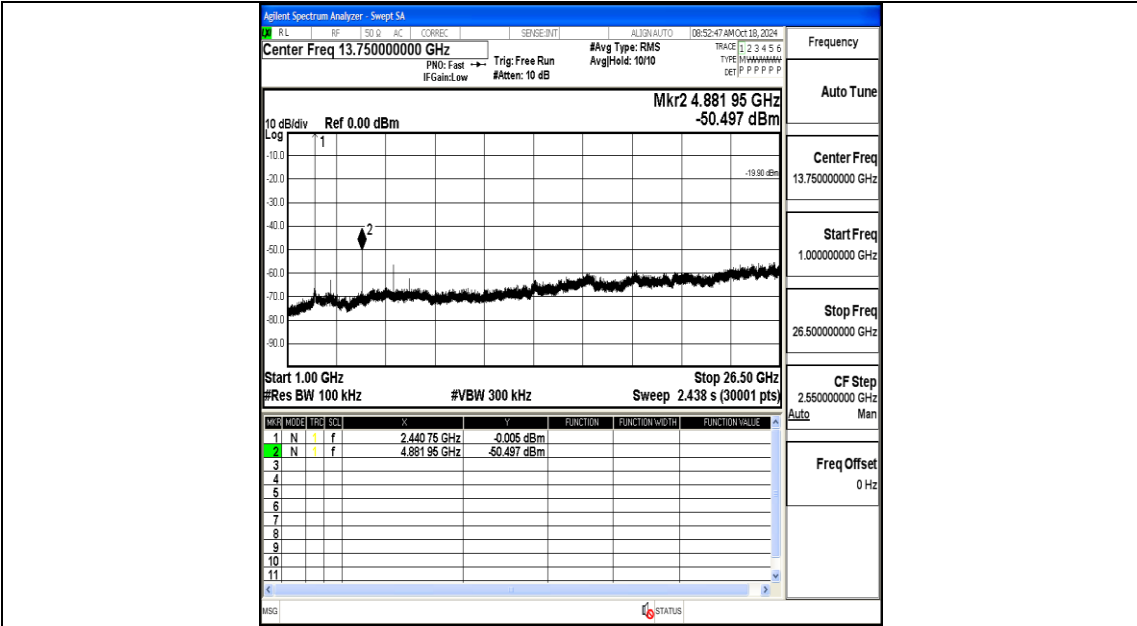
DH5-Ant1-2402-1000~26500-PASS



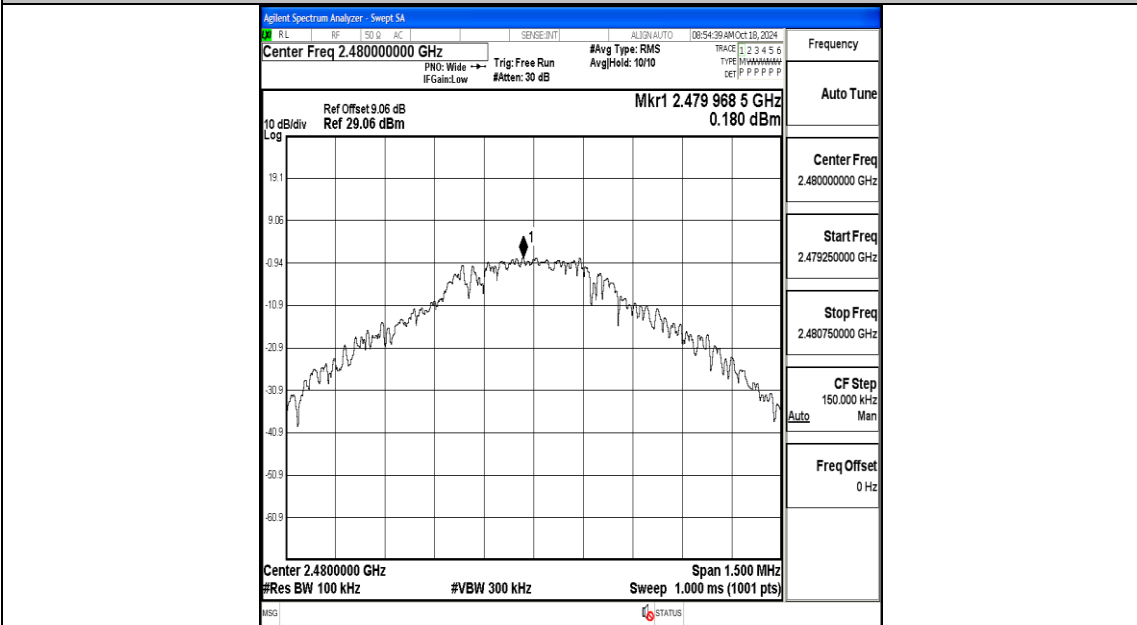
DH5-Ant1-2441-0~Reference-PASS



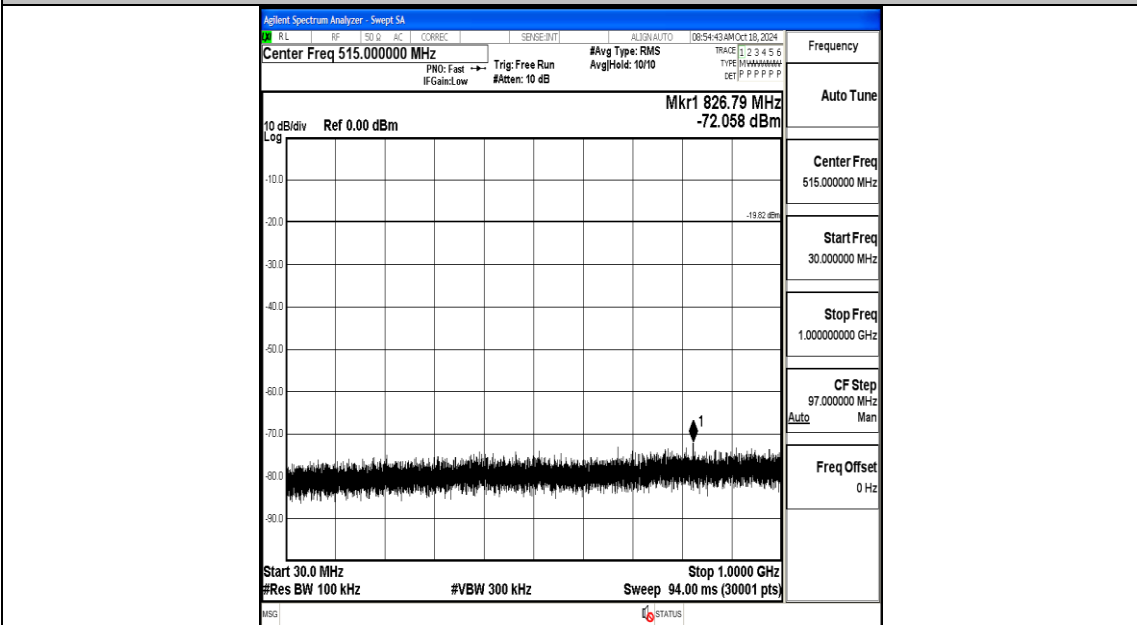
DH5-Ant1-2441-30~1000-PASS



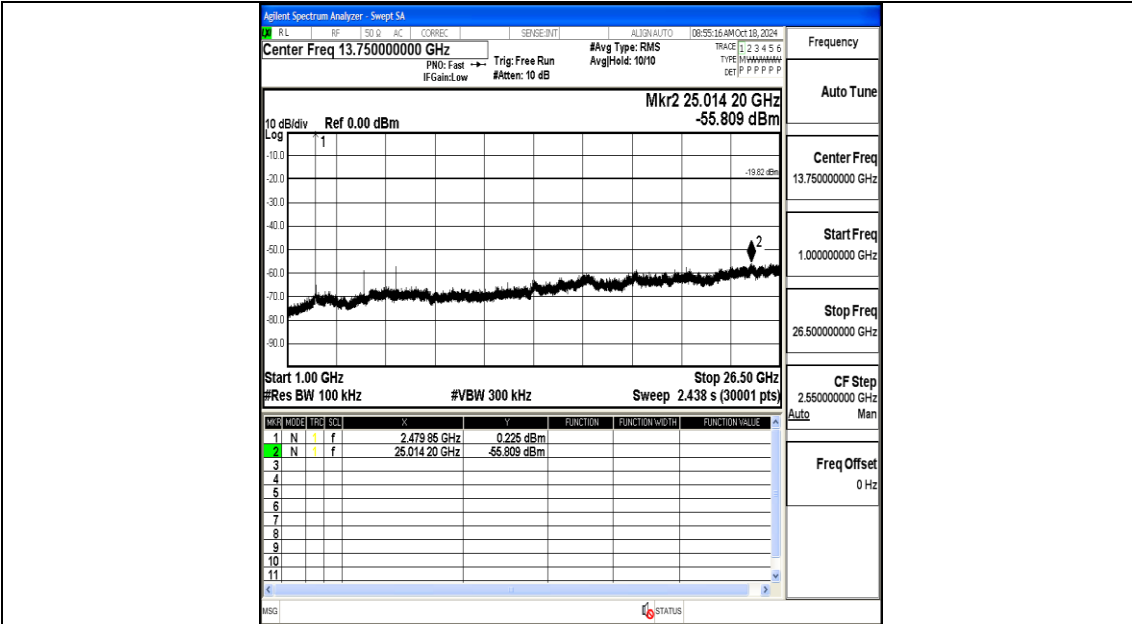
DH5-Ant1-2441-1000~26500-PASS



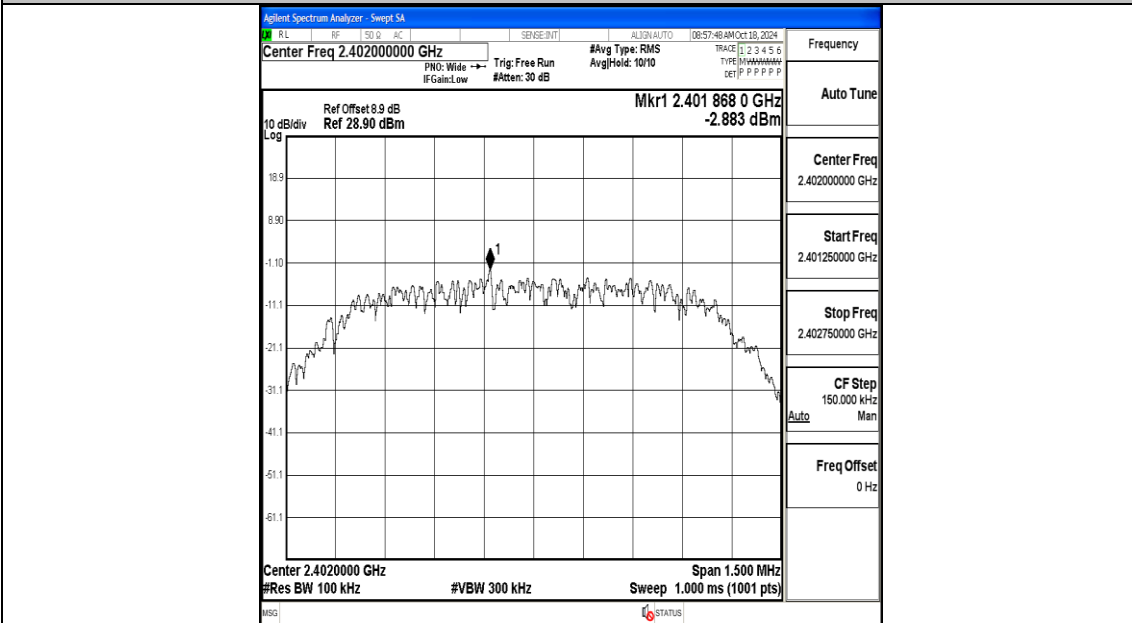
DH5-Ant1-2480-0~Reference-PASS



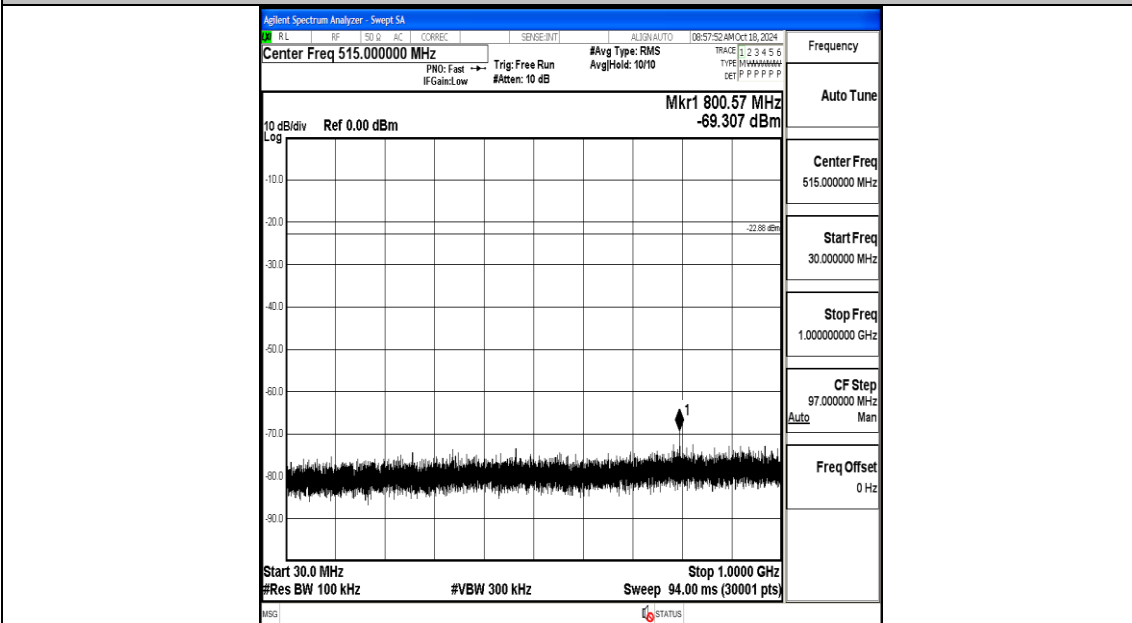
DH5-Ant1-2480-30~1000-PASS



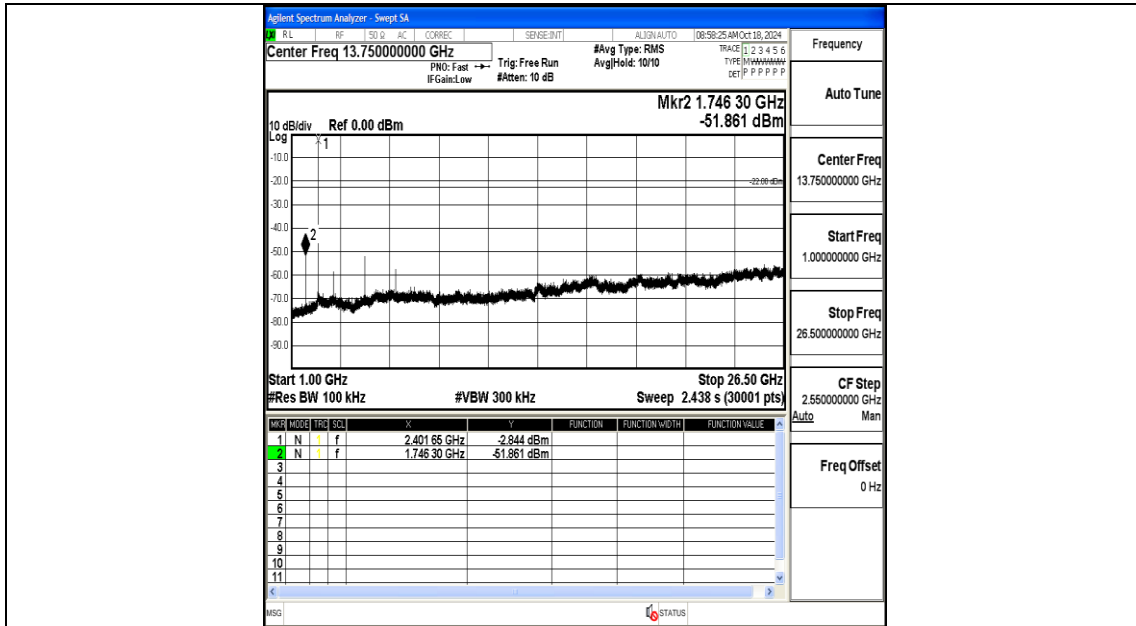
DH5-Ant1-2480-1000~26500-PASS



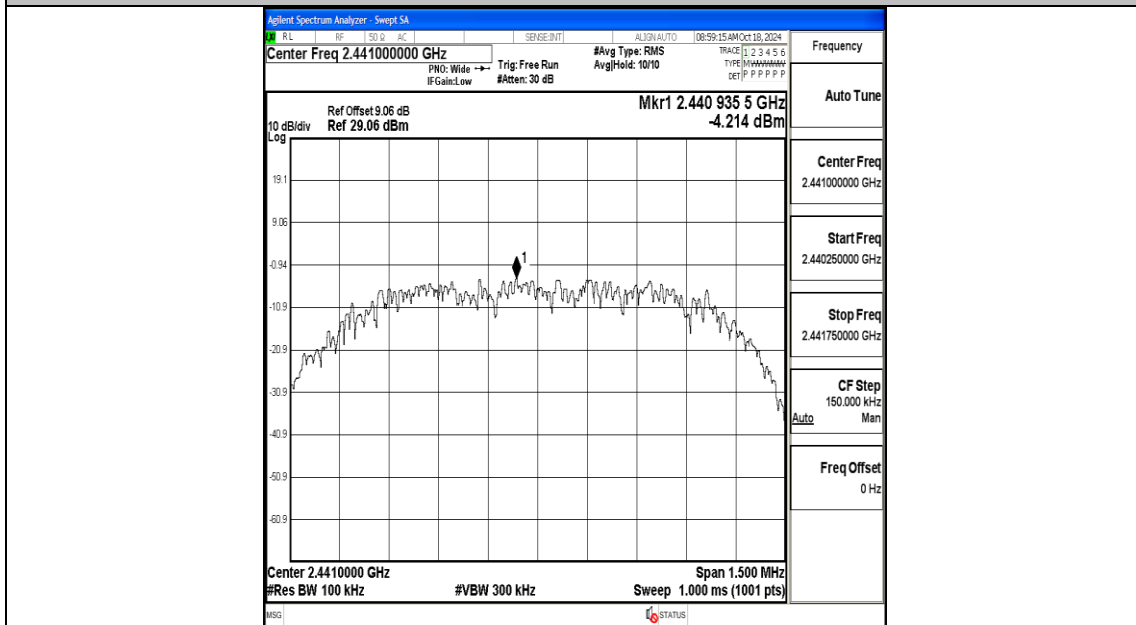
2DH5-Ant1-2402-0~Reference-PASS



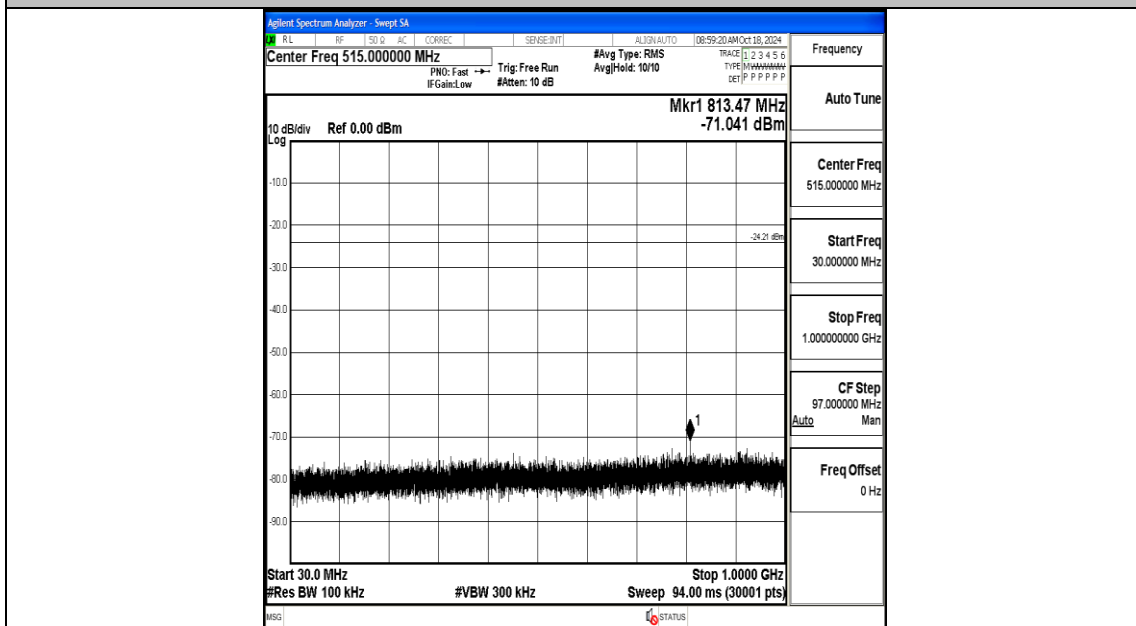
2DH5-Ant1-2402-30~1000-PASS



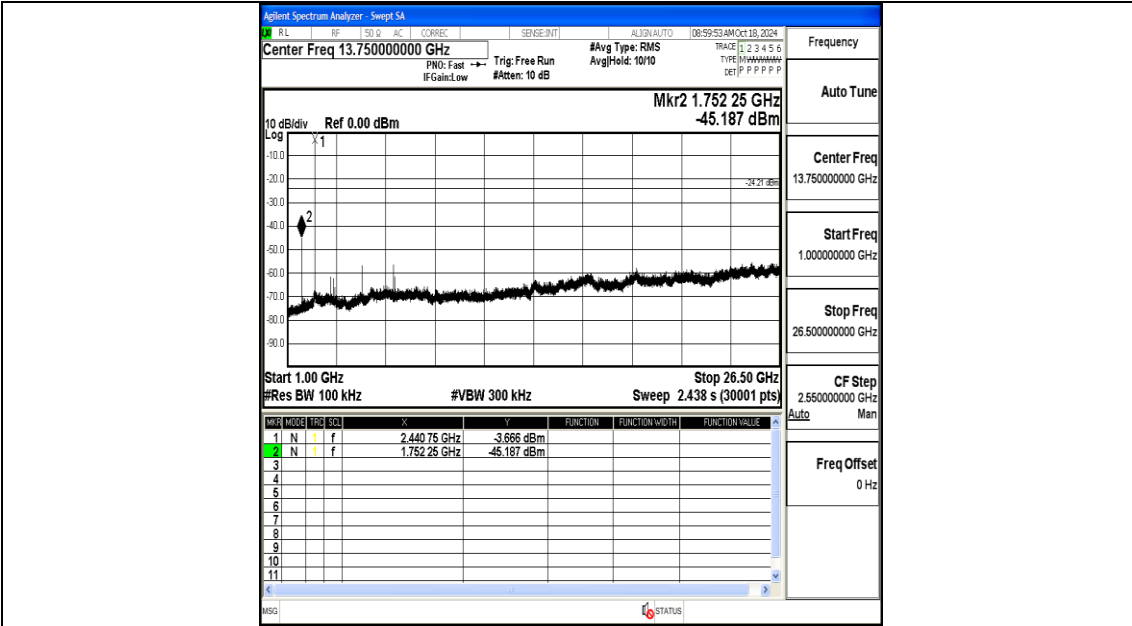
2DH5-Ant1-2402-1000~26500-PASS



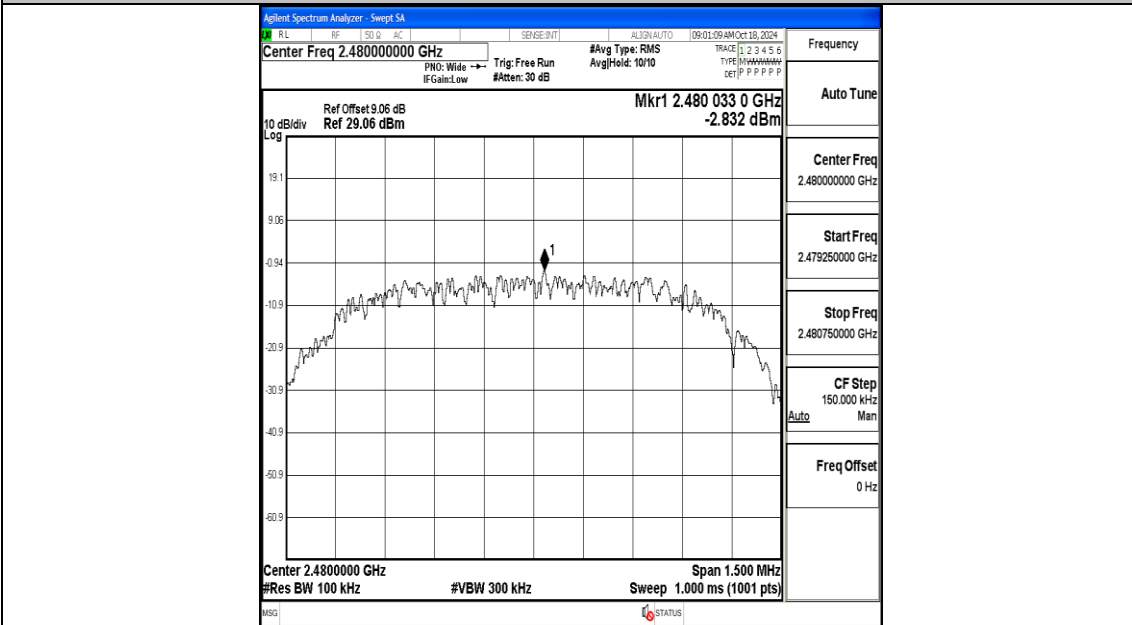
2DH5-Ant1-2441-0~Reference-PASS



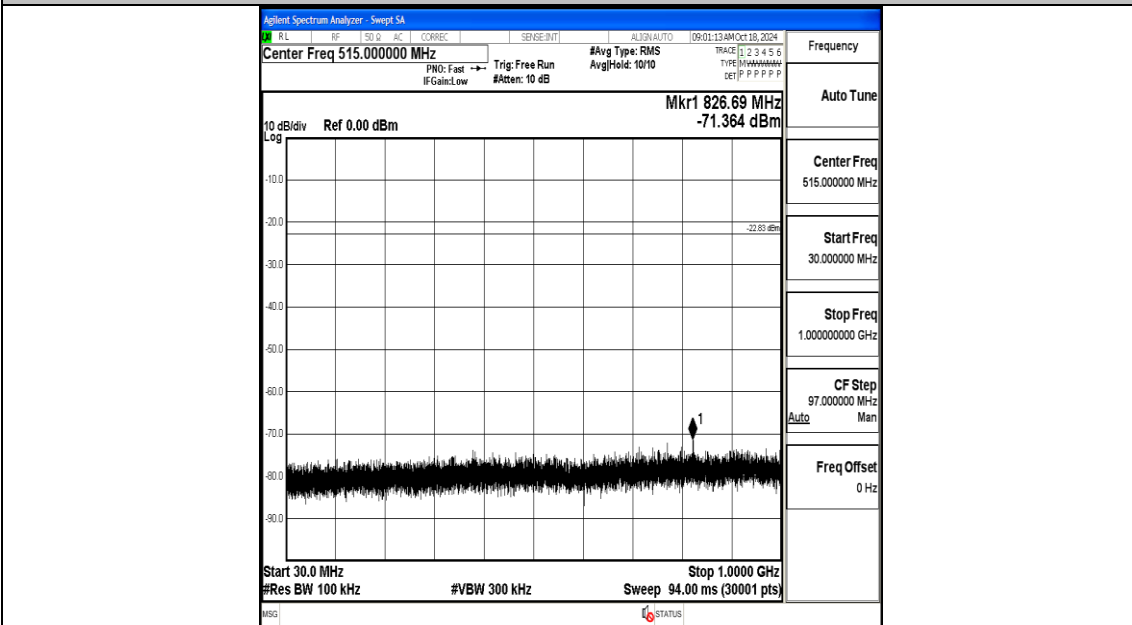
2DH5-Ant1-2441-30~1000-PASS



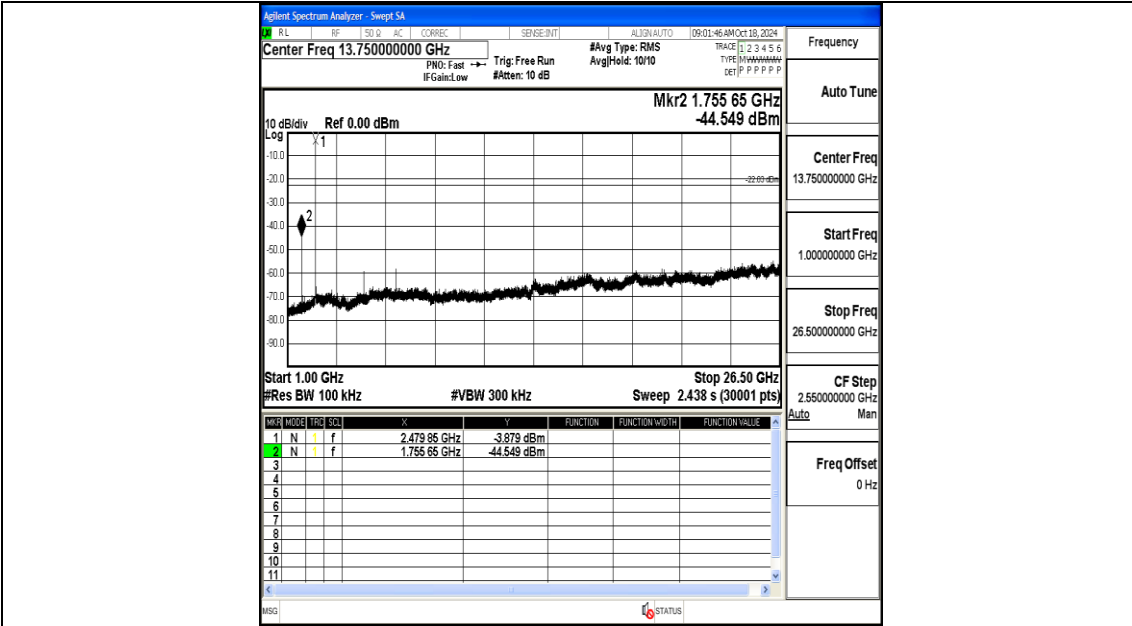
2DH5-Ant1-2441-1000~26500-PASS



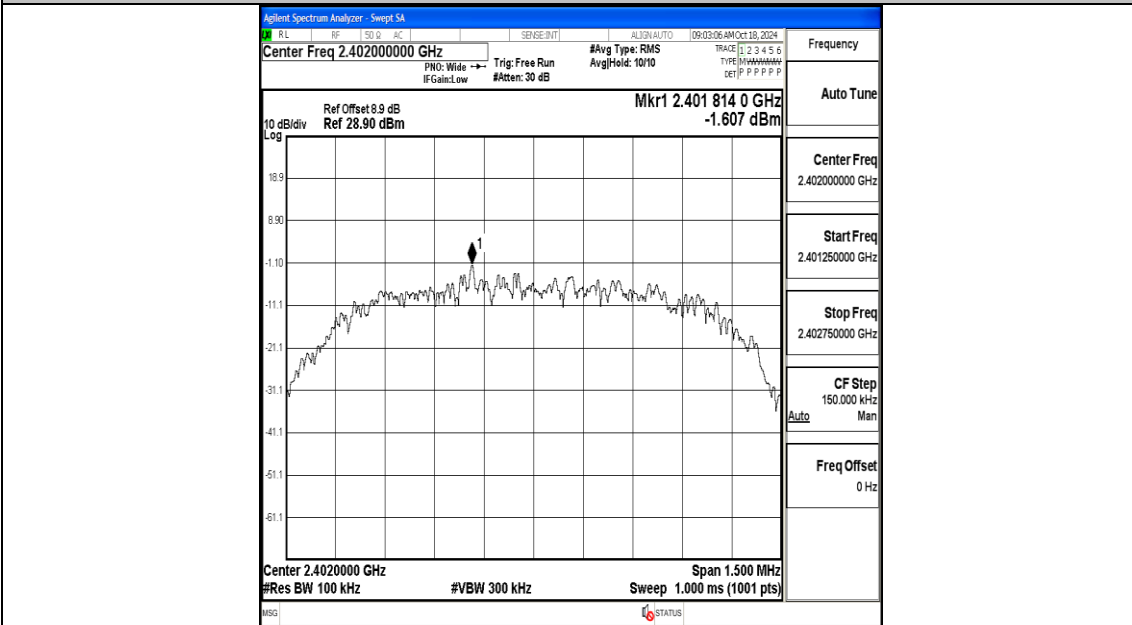
2DH5-Ant1-2480-0~Reference-PASS



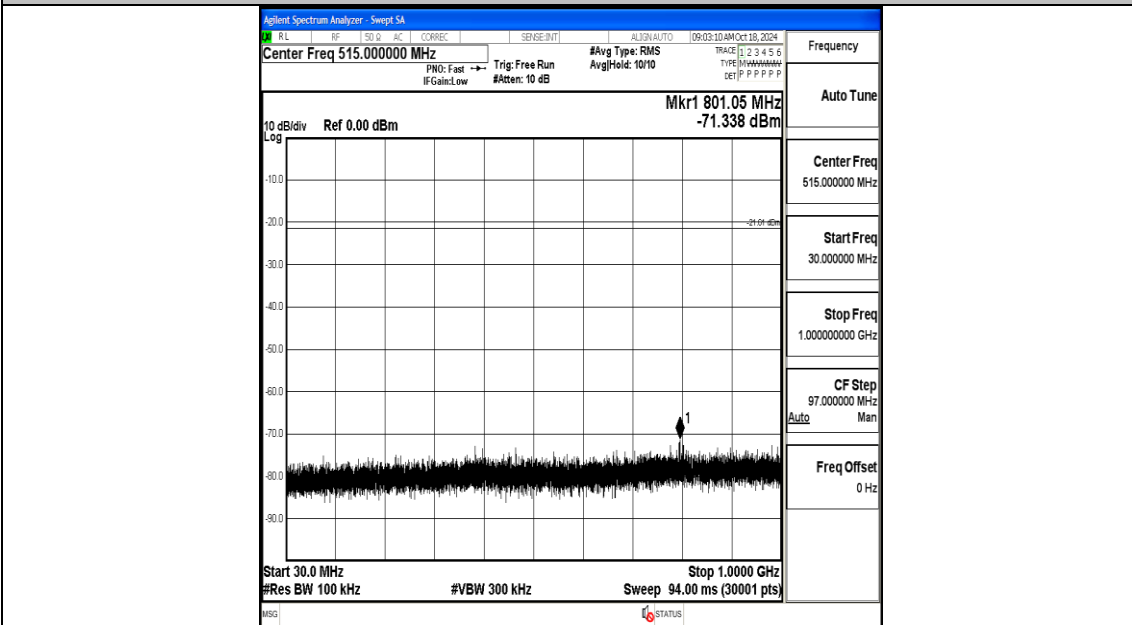
2DH5-Ant1-2480-30~1000-PASS



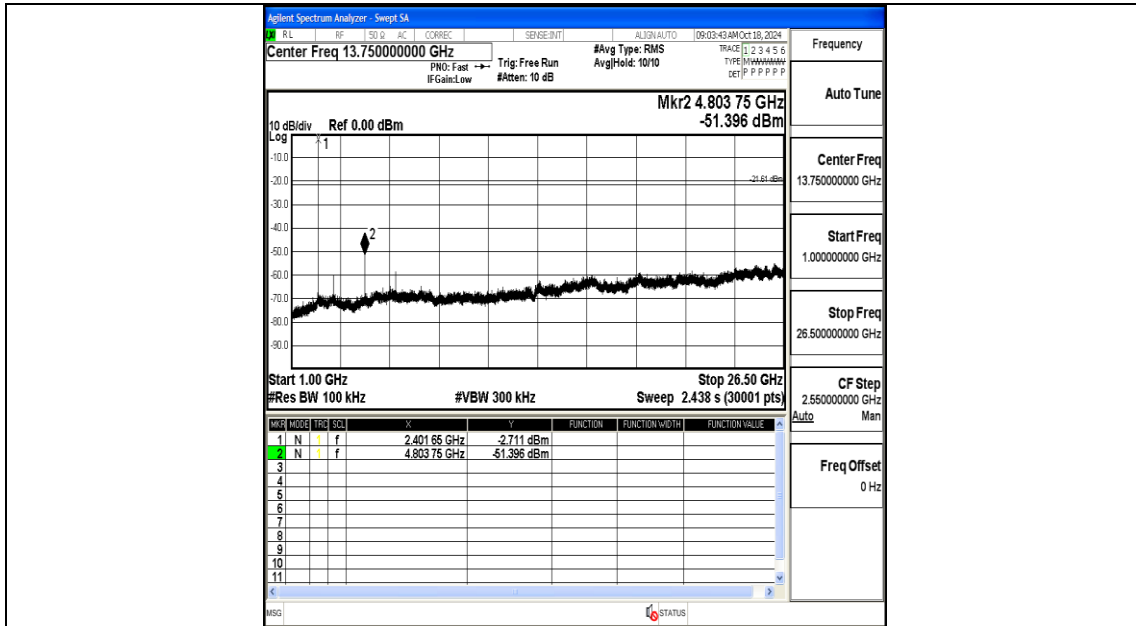
2DH5-Ant1-2480-1000~26500-PASS



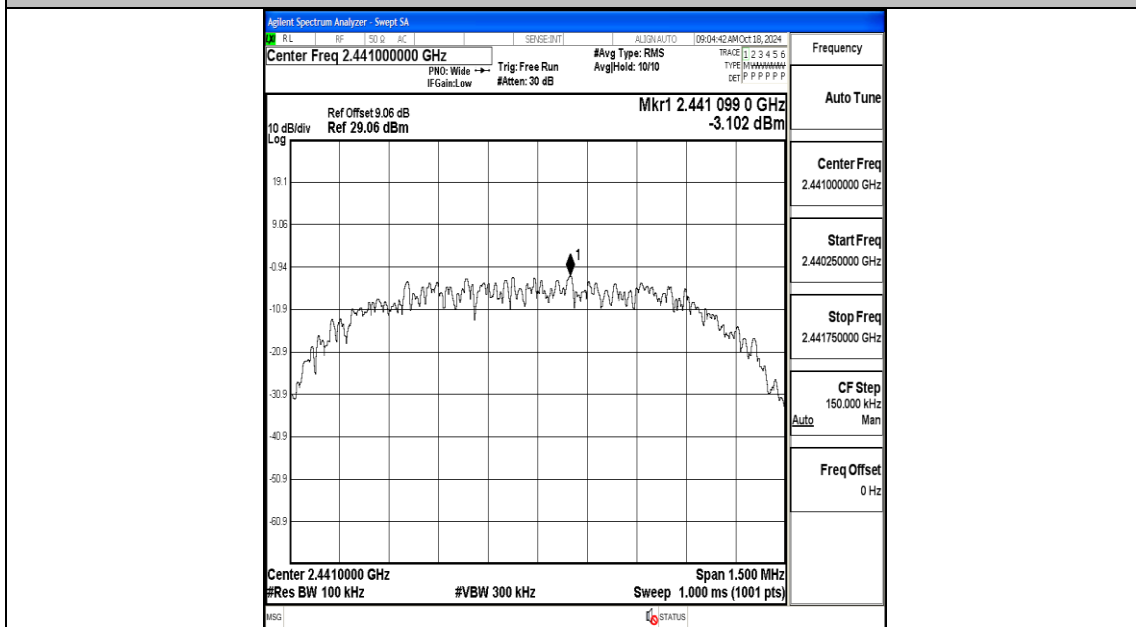
3DH5-Ant1-2402-0~Reference-PASS



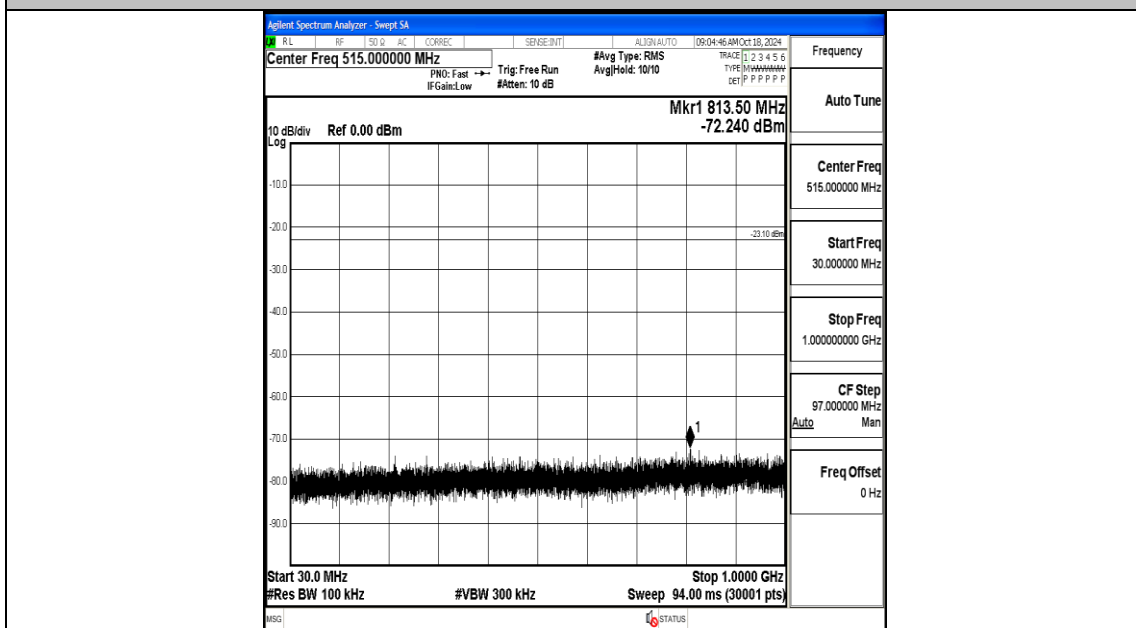
3DH5-Ant1-2402-30~1000-PASS



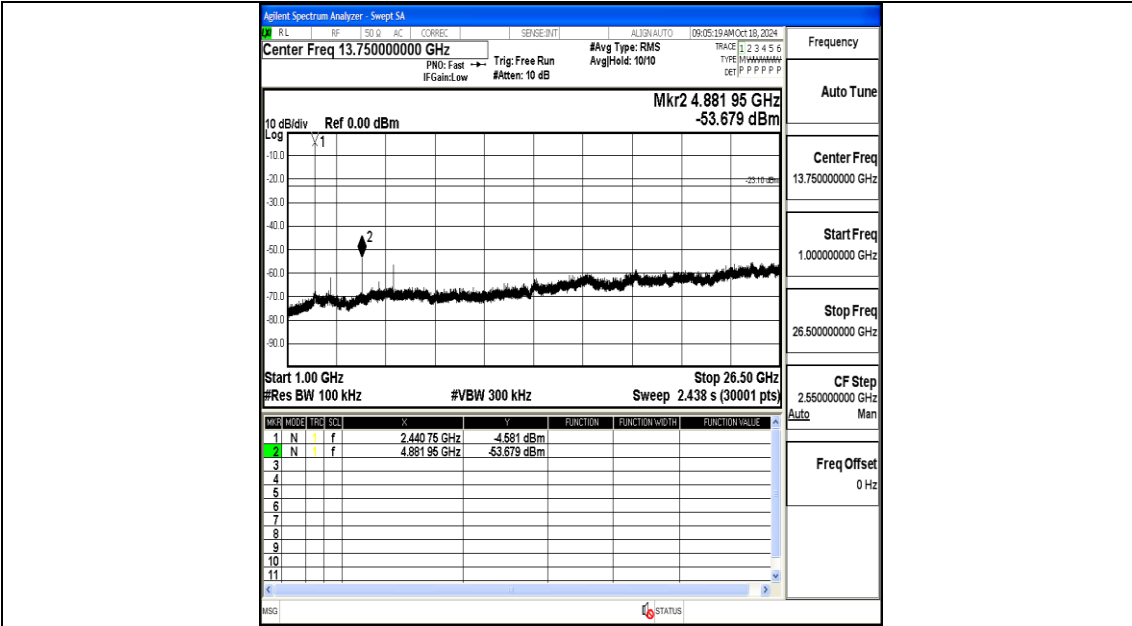
3DH5-Ant1-2402-1000~26500-PASS



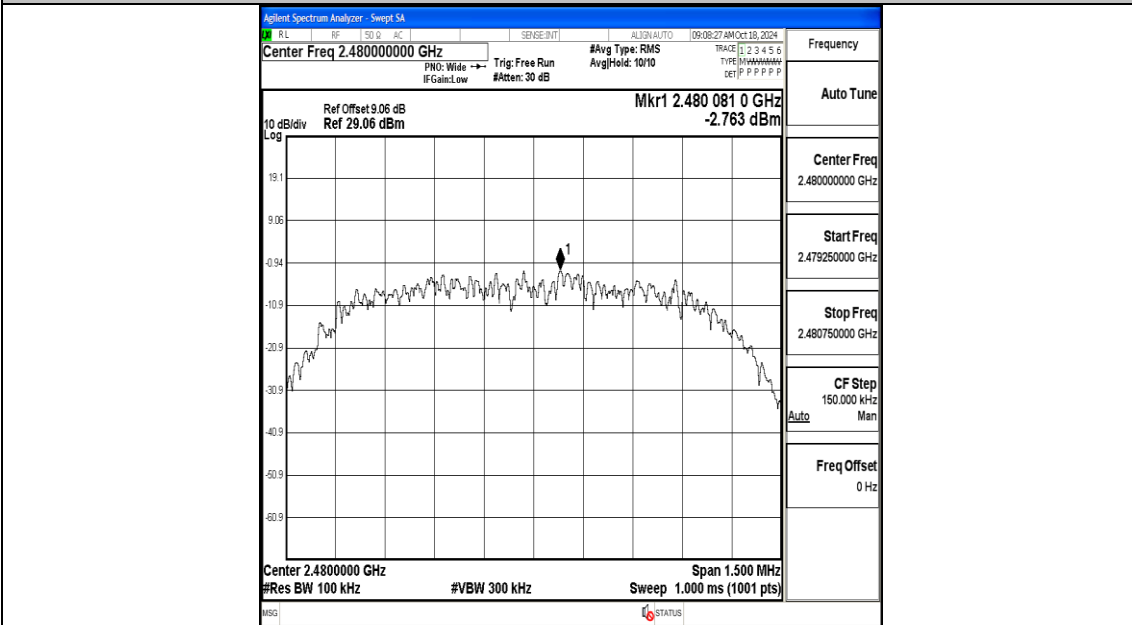
3DH5-Ant1-2441-0~Reference-PASS



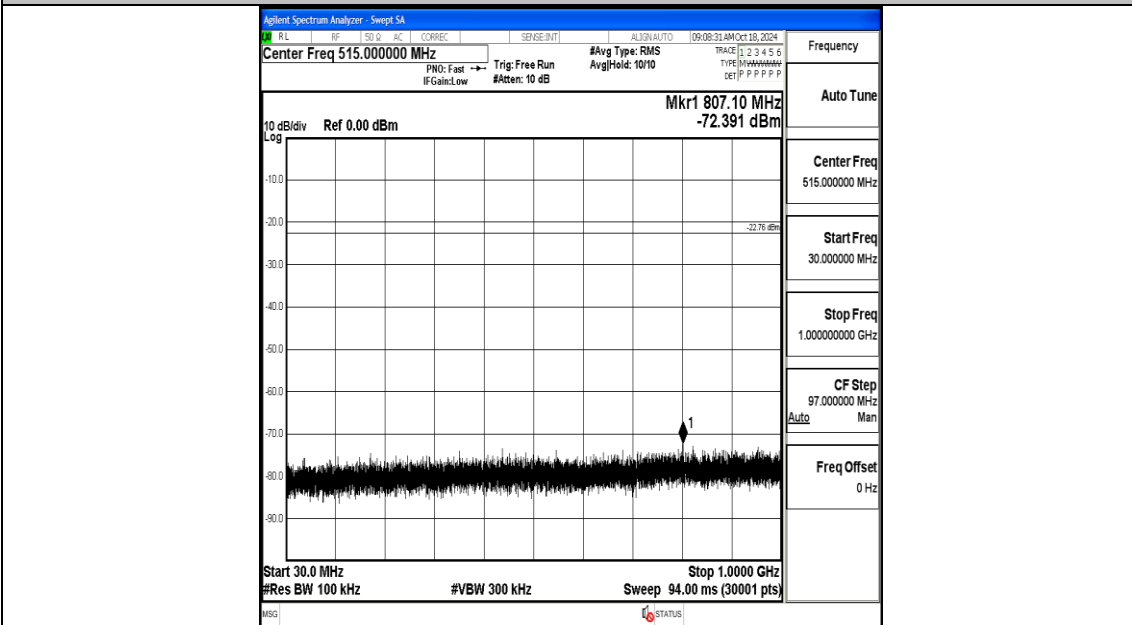
3DH5-Ant1-2441-30~1000-PASS



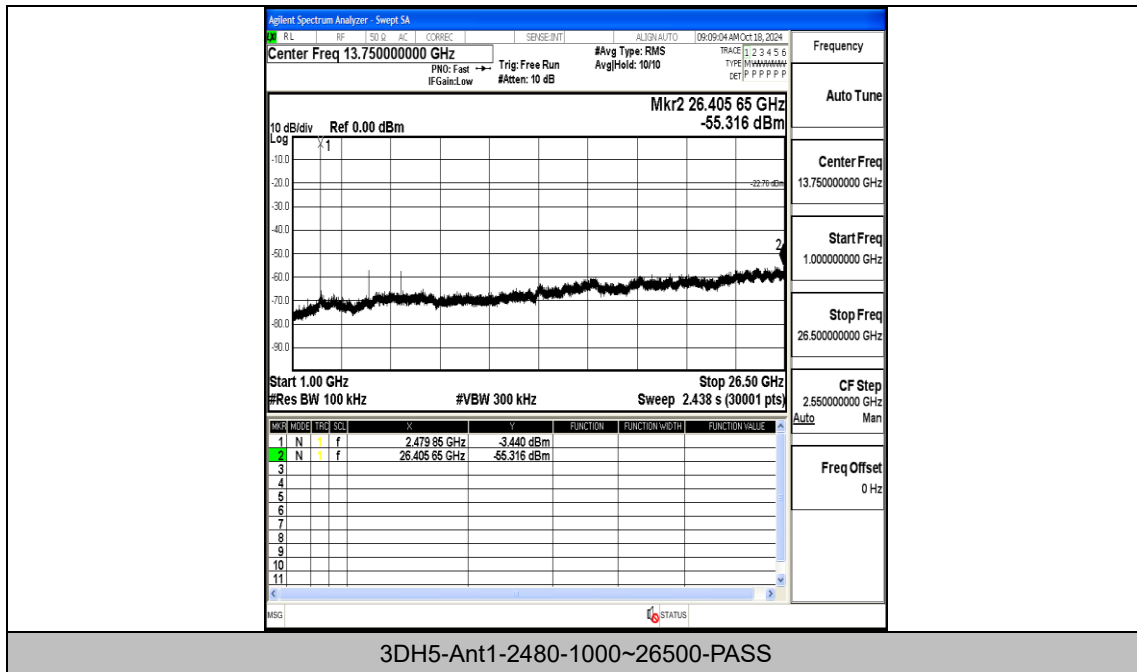
3DH5-Ant1-2441-1000~26500-PASS



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



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

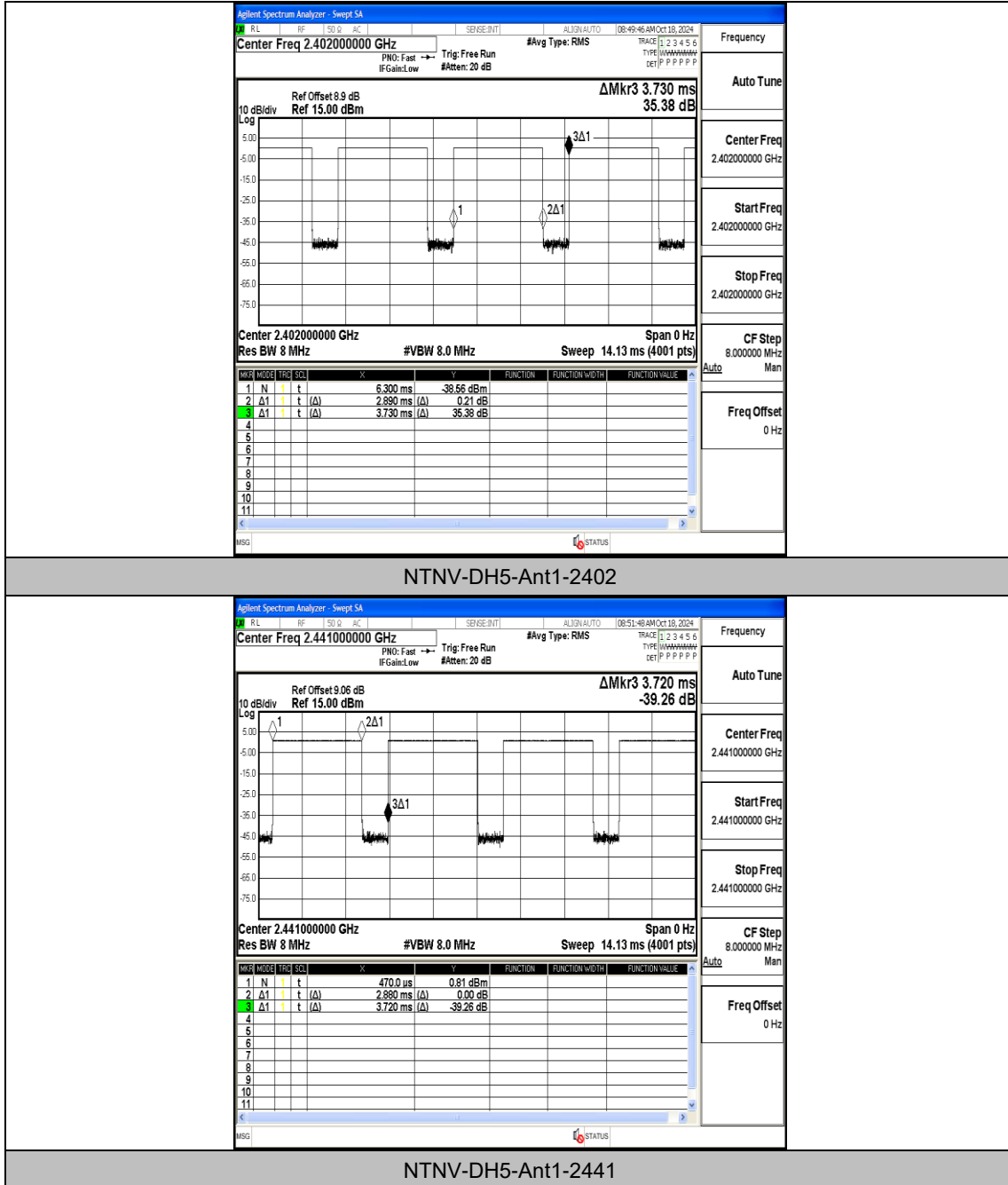


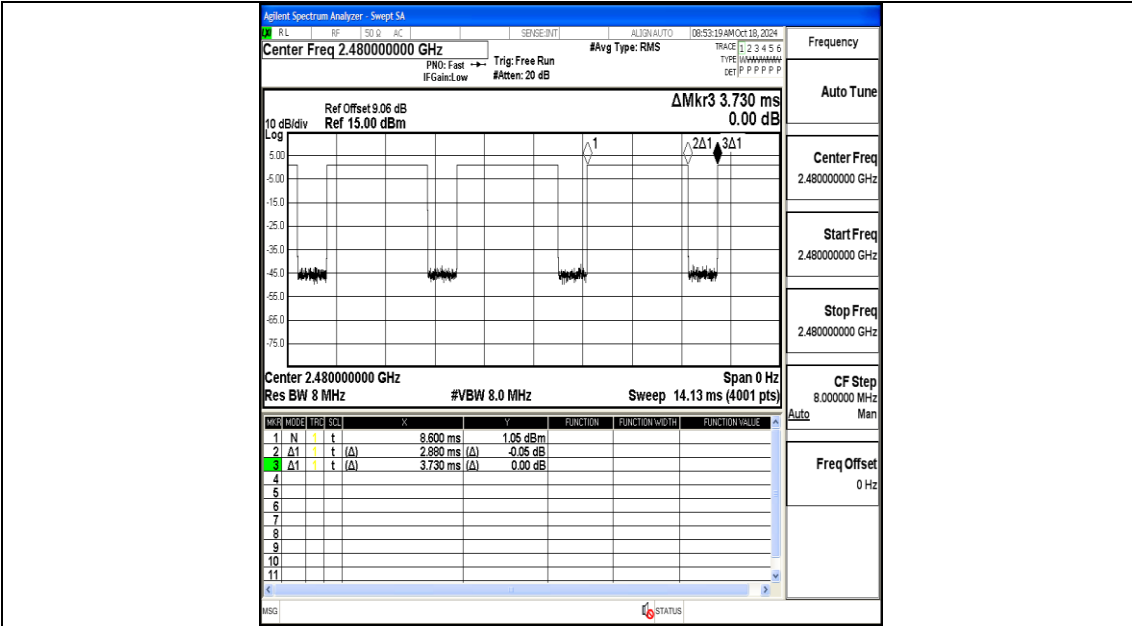
Appendix I: Duty Cycle

Test Result

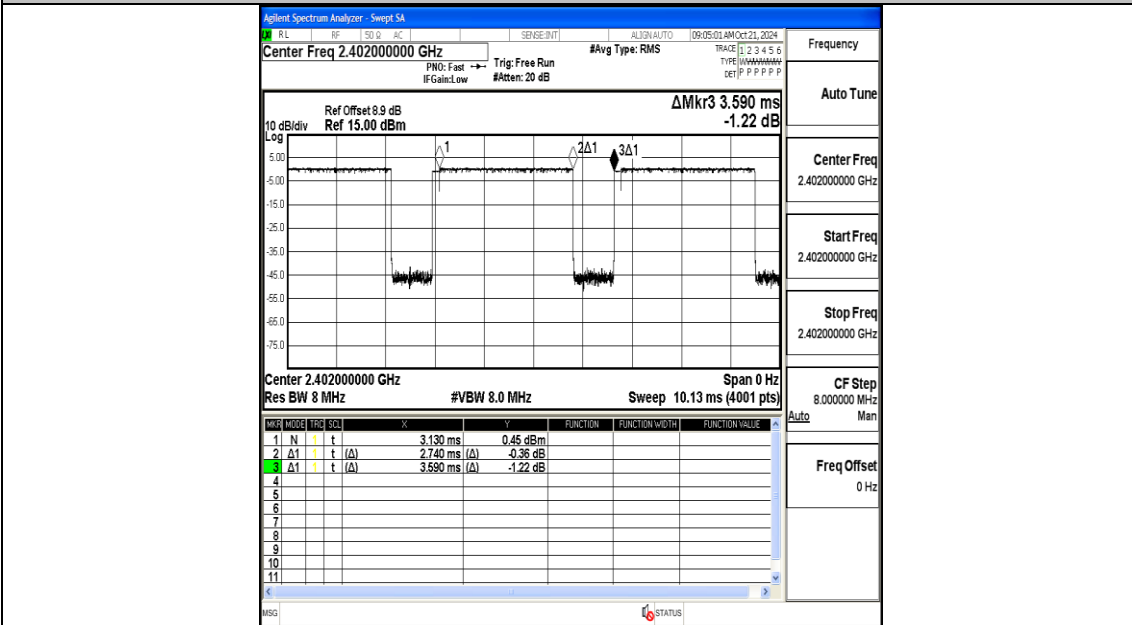
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	2.89	3.73	77.48	1.11
DH5	Ant1	2441	2.88	3.72	77.42	1.11
DH5	Ant1	2480	2.88	3.73	77.21	1.12
2DH5	Ant1	2402	2.74	3.59	76.32	1.17
2DH5	Ant1	2441	2.89	3.73	77.48	1.11
2DH5	Ant1	2480	2.89	3.73	77.48	1.11
3DH5	Ant1	2402	2.89	3.74	77.27	1.12
3DH5	Ant1	2441	2.88	3.73	77.21	1.12
3DH5	Ant1	2480	2.89	3.74	77.27	1.12

Test Graphs

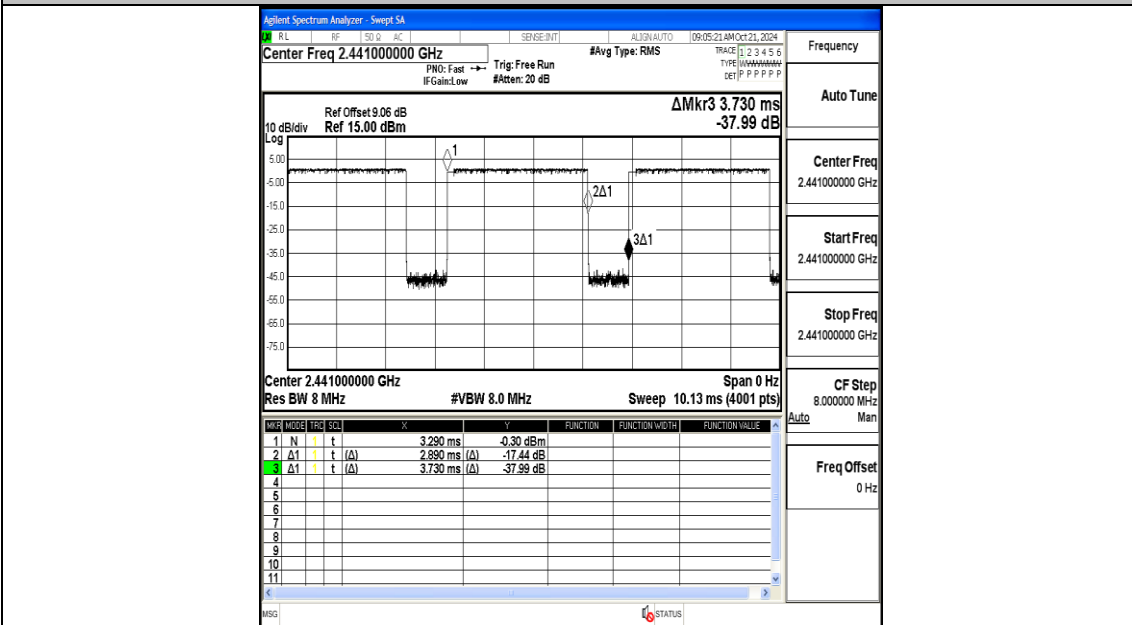




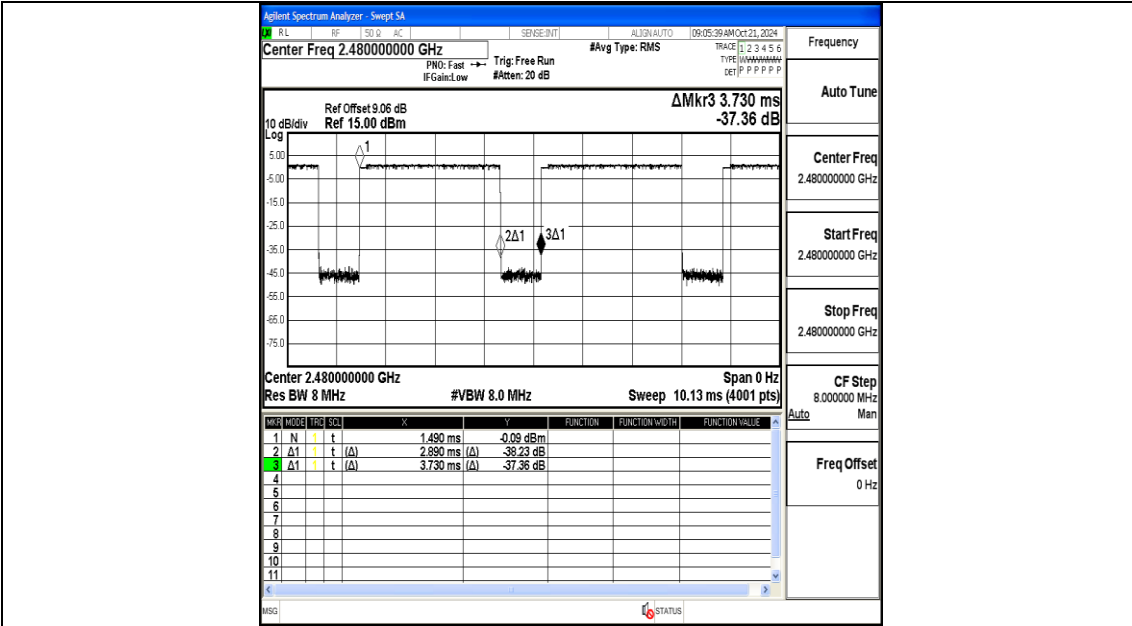
NTNV-DH5-Ant1-2480



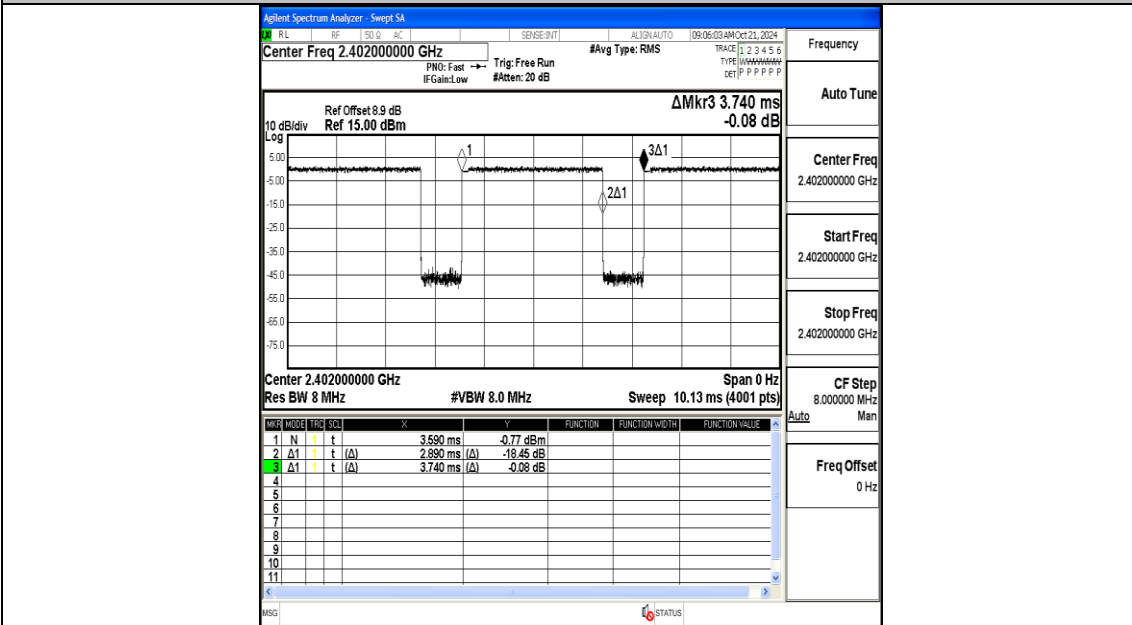
NTNV-2DH5-Ant1-2402



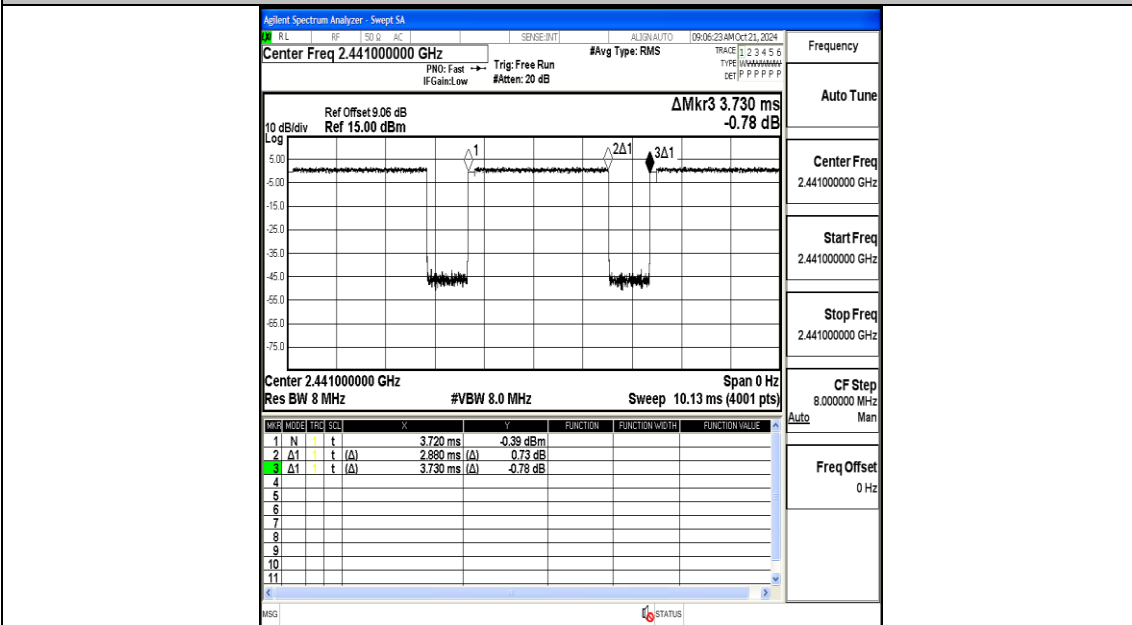
NTNV-2DH5-Ant1-2441



NTNV-2DH5-Ant1-2480



NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441

