



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

Product Name: Bluetooth earbuds

Trade Mark: /

Test Model: BH26CT03A

FCC ID: RDR-CT03AR

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
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	2401.520	2402.477	---	---
DH5	Ant1	2441	1.032	2440.457	2441.489	---	---
DH5	Ant1	2480	0.963	2479.517	2480.480	---	---
2DH5	Ant1	2402	1.227	2401.367	2402.594	---	---
2DH5	Ant1	2441	1.263	2440.364	2441.627	---	---
2DH5	Ant1	2480	1.191	2479.385	2480.576	---	---
3DH5	Ant1	2402	1.281	2401.337	2402.618	---	---
3DH5	Ant1	2441	1.197	2440.406	2441.603	---	---
3DH5	Ant1	2480	1.278	2479.355	2480.633	---	---

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs





DH5-Ant1-2480



2DH5-Ant1-2402





2DH5-Ant1-2441



2DH5-Ant1-2480



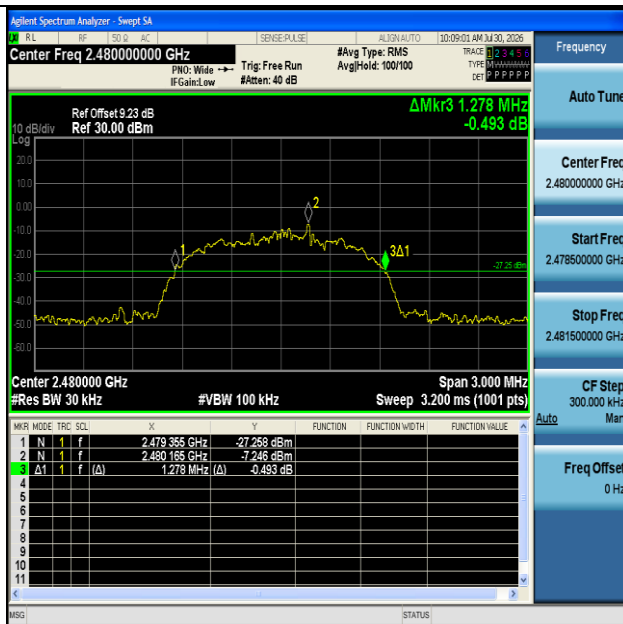


3DH5-Ant1-2402



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	0.91311	2401.5367	2402.4498	---	---
DH5	Ant1	2441	0.91601	2440.5346	2441.4506	---	---
DH5	Ant1	2480	0.92165	2479.5320	2480.4536	---	---
2DH5	Ant1	2402	1.1719	2401.4012	2402.5731	---	---
2DH5	Ant1	2441	1.1730	2440.4028	2441.5758	---	---
2DH5	Ant1	2480	1.1618	2479.4056	2480.5674	---	---
3DH5	Ant1	2402	1.1768	2401.4027	2402.5795	---	---
3DH5	Ant1	2441	1.1680	2440.4073	2441.5753	---	---
3DH5	Ant1	2480	1.1728	2479.4057	2480.5785	---	---

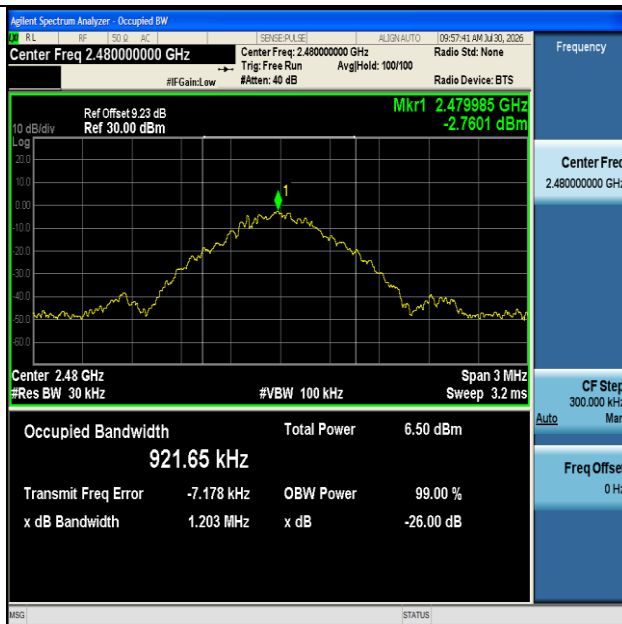
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



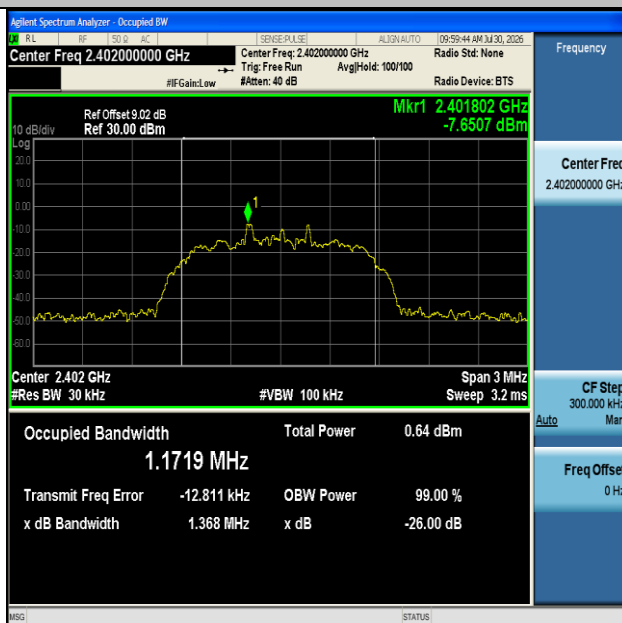


Test Graphs



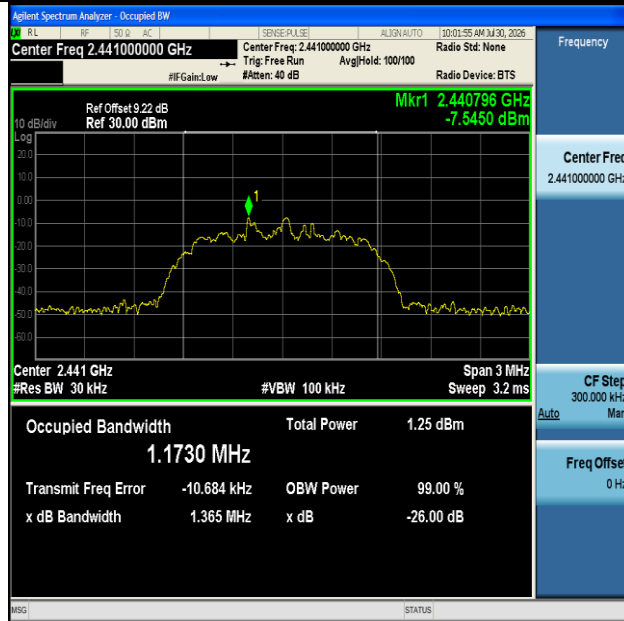


DH5-Ant1-2480

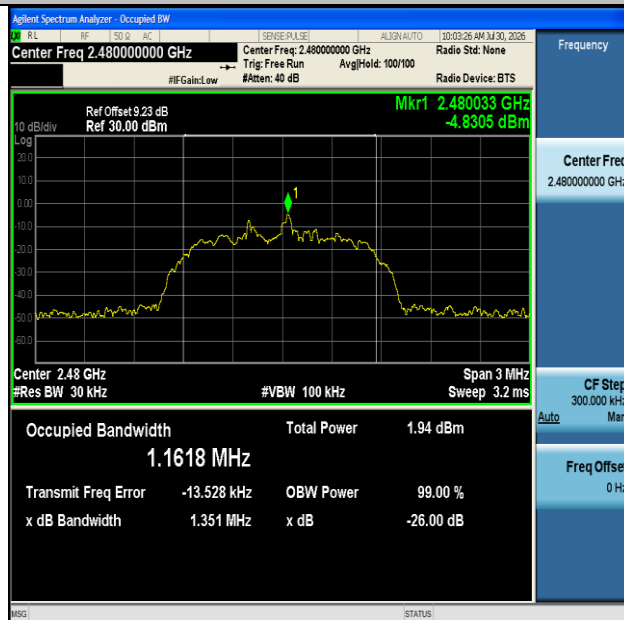


2DH5-Ant1-2402



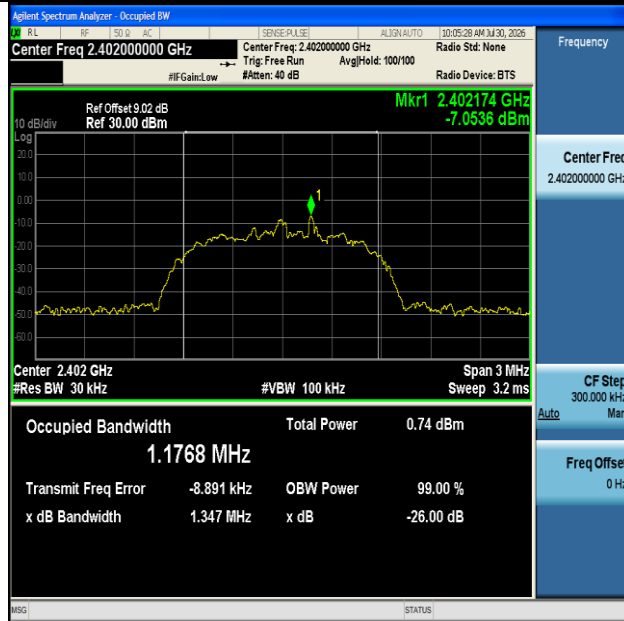


2DH5-Ant1-2441

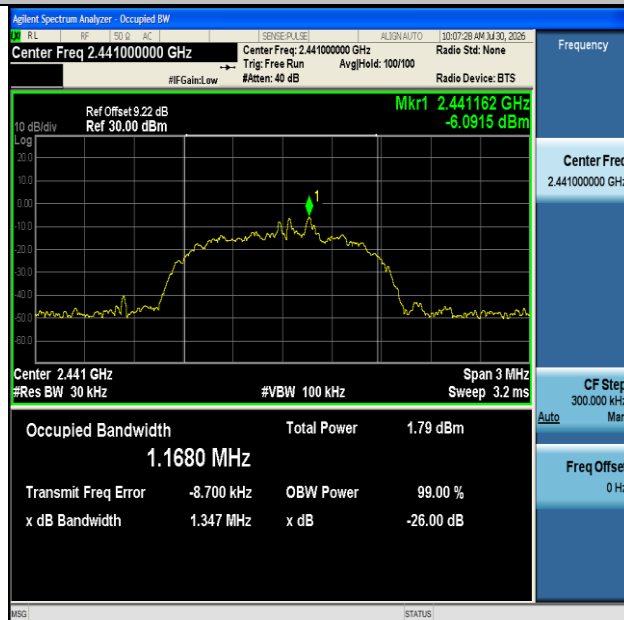


2DH5-Ant1-2480



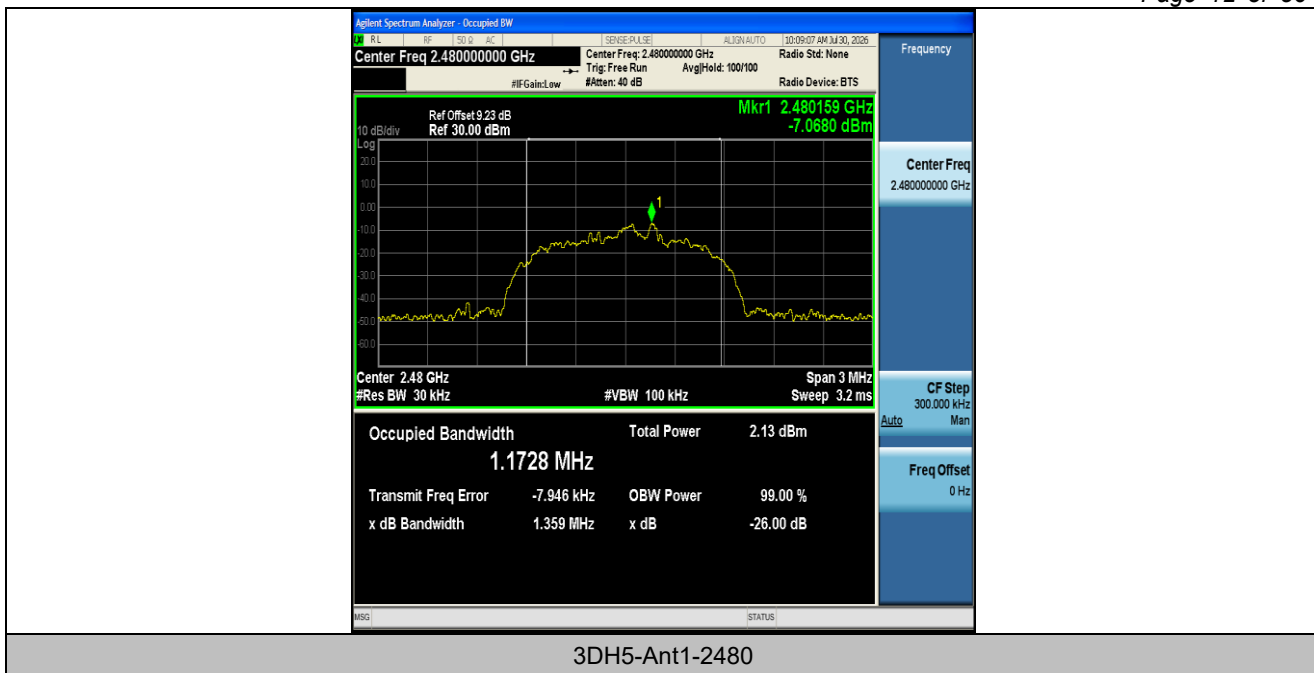


3DH5-Ant1-2402



3DH5-Ant1-2441







Appendix C: Maximum peak conducted output power

Test Result

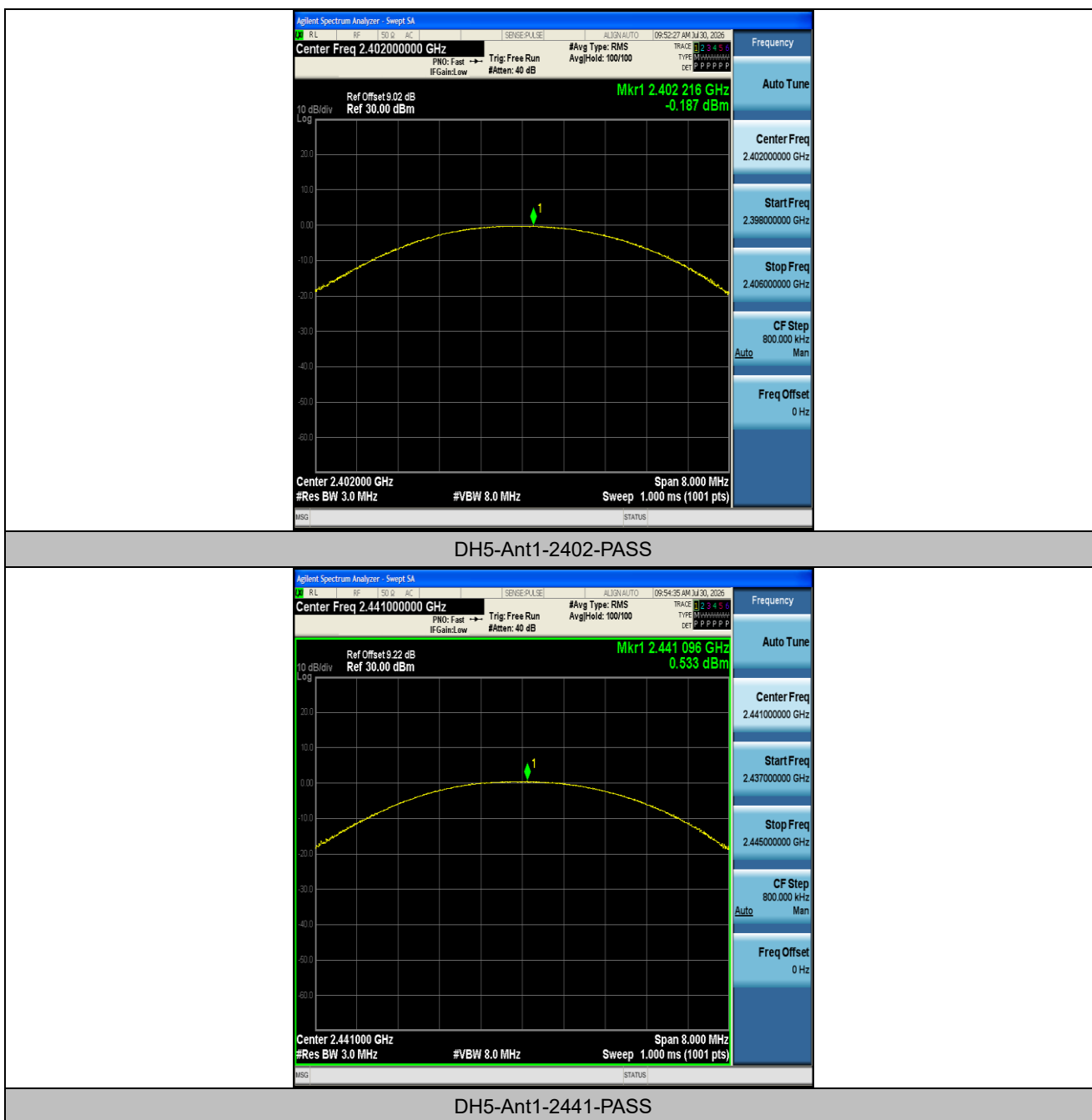
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	-0.19	≤20.97	PASS
DH5	Ant1	2441	0.53	≤20.97	PASS
DH5	Ant1	2480	0.57	≤20.97	PASS
2DH5	Ant1	2402	-3.19	≤20.97	PASS
2DH5	Ant1	2441	-2.53	≤20.97	PASS
2DH5	Ant1	2480	-2.18	≤20.97	PASS
3DH5	Ant1	2402	-3.21	≤20.97	PASS
3DH5	Ant1	2441	-2.52	≤20.97	PASS
3DH5	Ant1	2480	-2.34	≤20.97	PASS

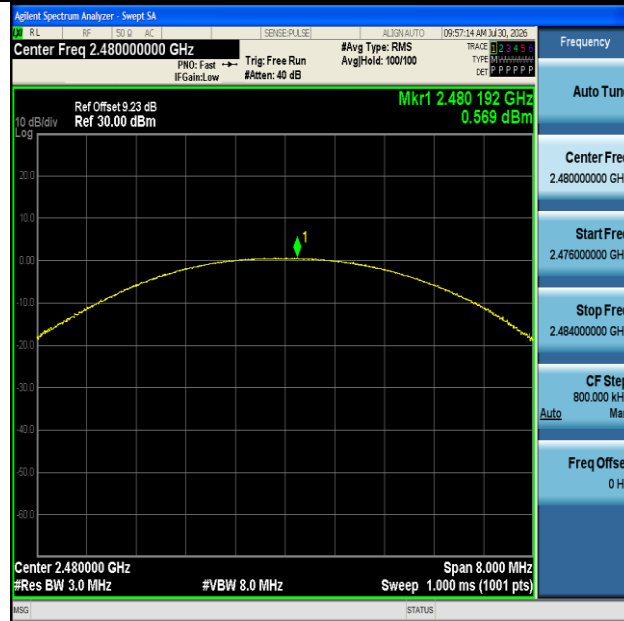
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs



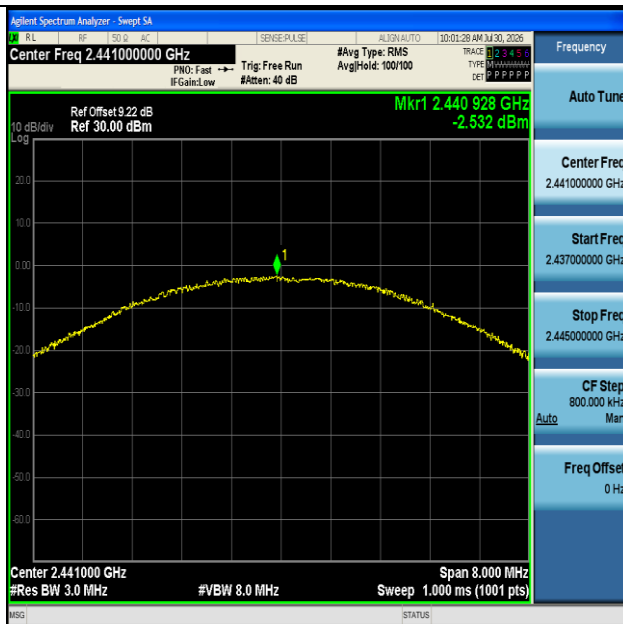


DH5-Ant1-2480-PASS

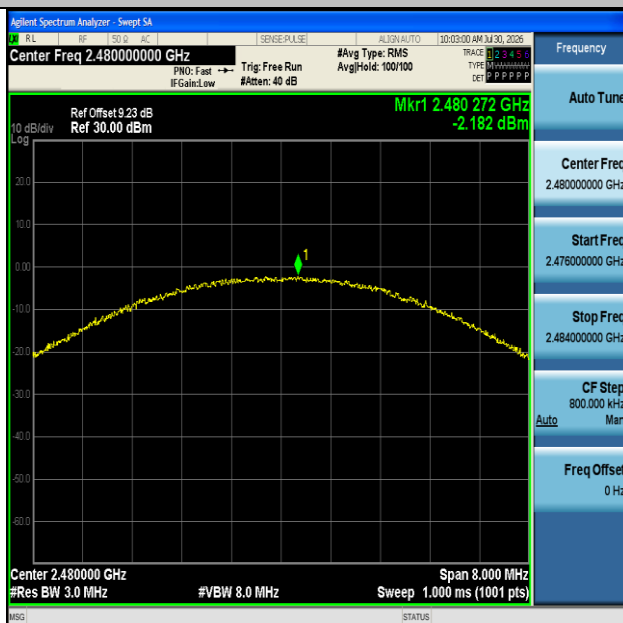


2DH5-Ant1-2402-PASS



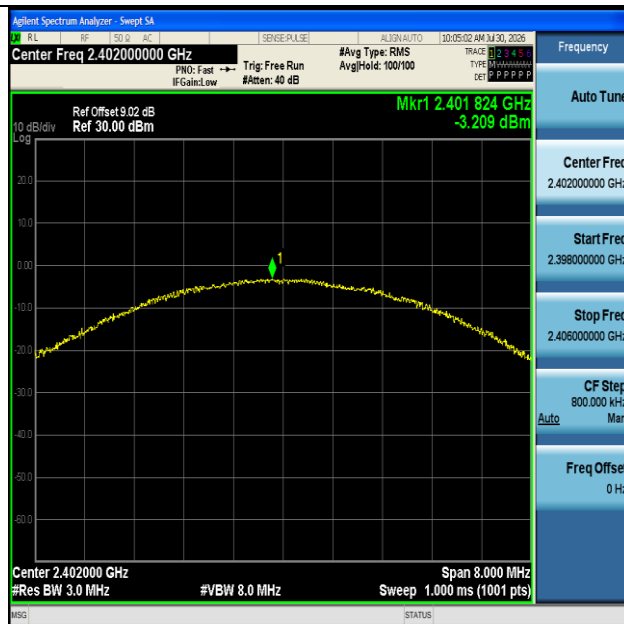


2DH5-Ant1-2441-PASS

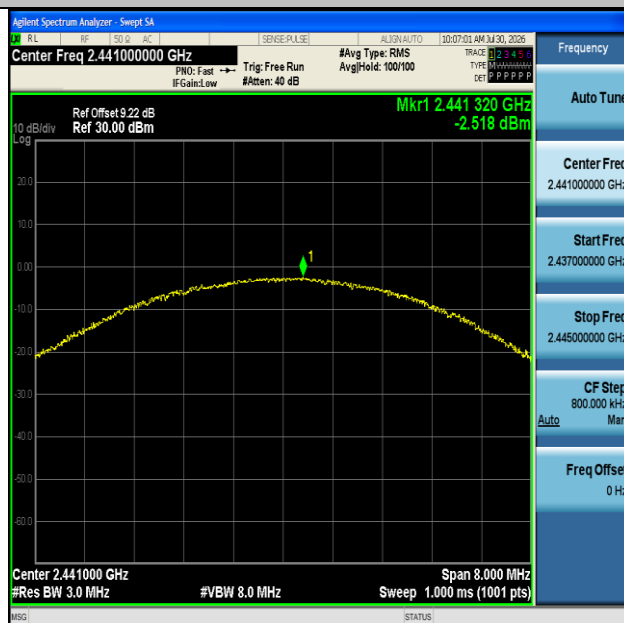


2DH5-Ant1-2480-PASS



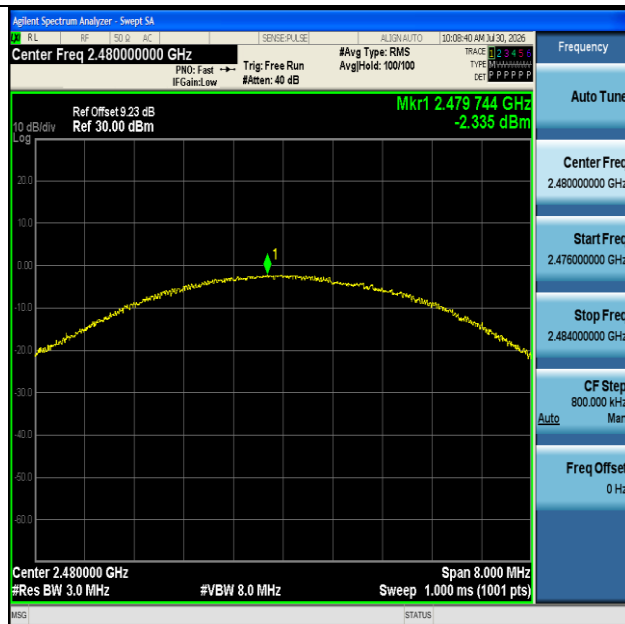


3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS





3DH5-Ant1-2480-PASS





Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.008	≥ 0.688	PASS
2DH5	Ant1	Hop	1.056	≥ 0.842	PASS
3DH5	Ant1	Hop	0.894	≥ 0.854	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs







Appendix E: Time of occupancy

Test Result

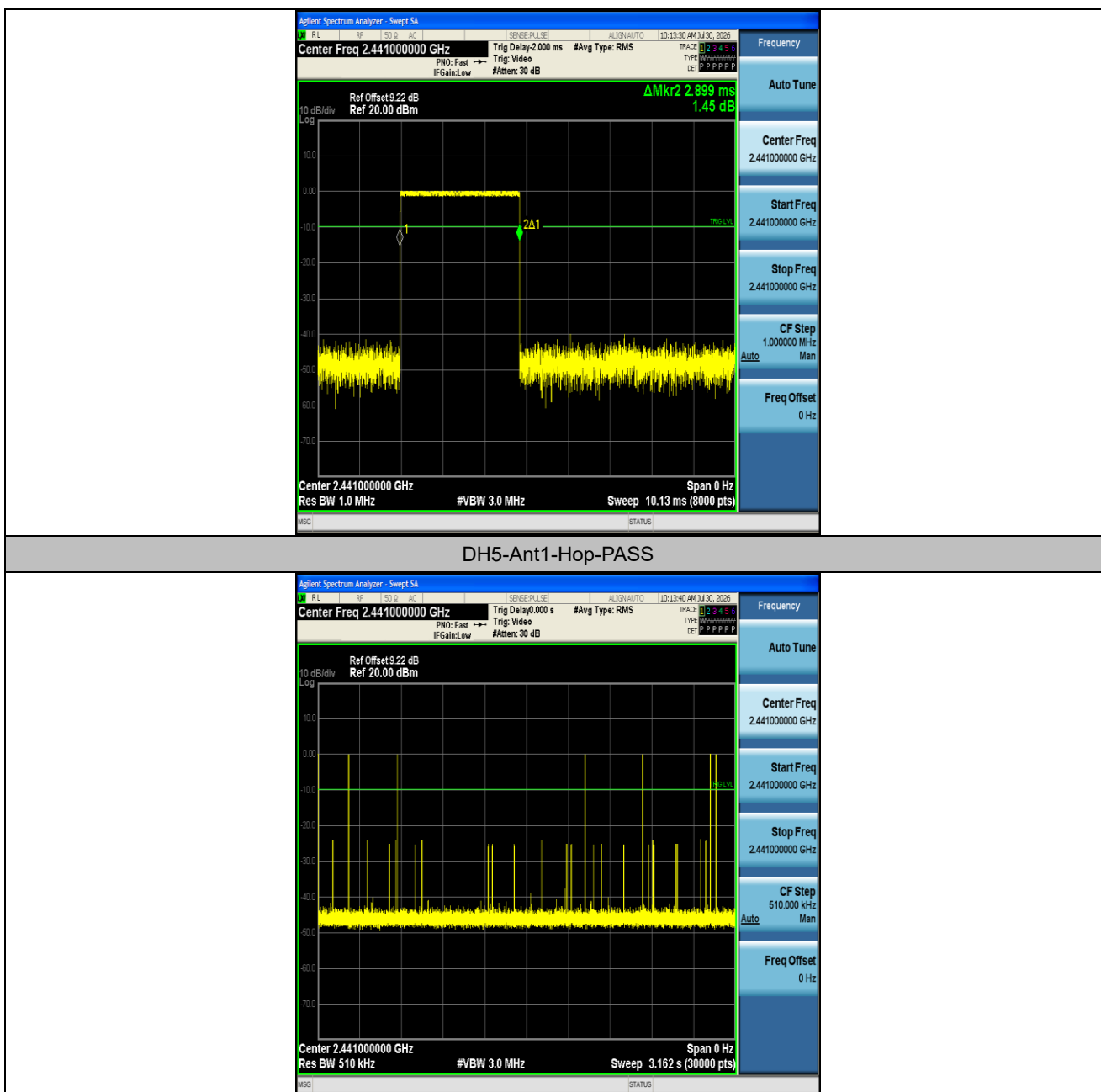
Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.899	70	0.203	≤0.4	PASS
2DH5	Ant1	Hop	2.904	40	0.116	≤0.4	PASS
3DH5	Ant1	Hop	2.906	90	0.262	≤0.4	PASS

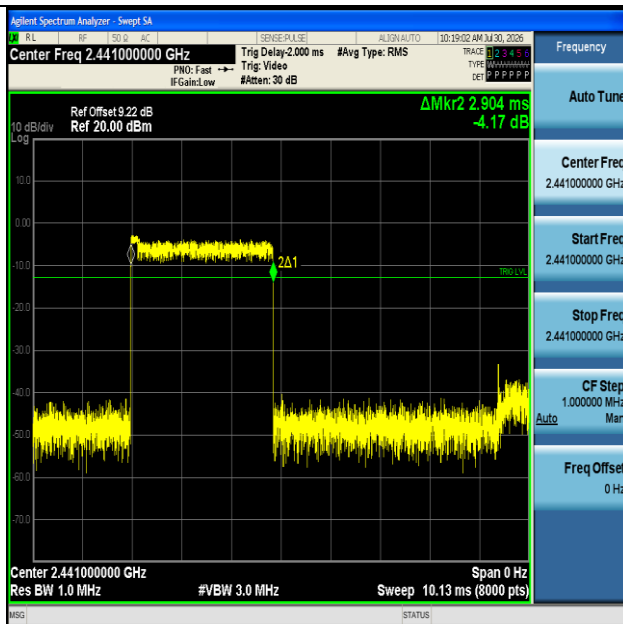
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



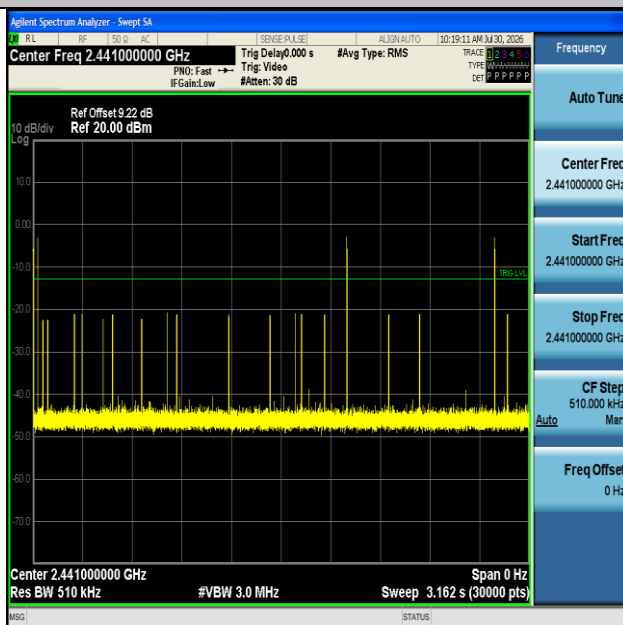


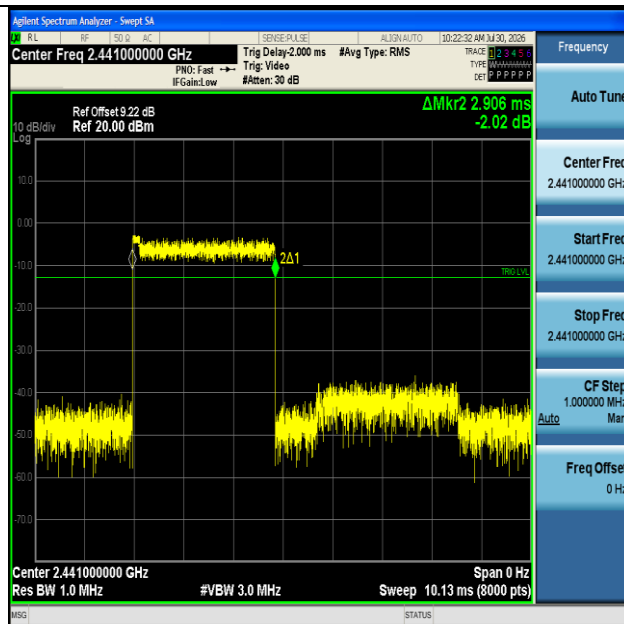
Test Graphs



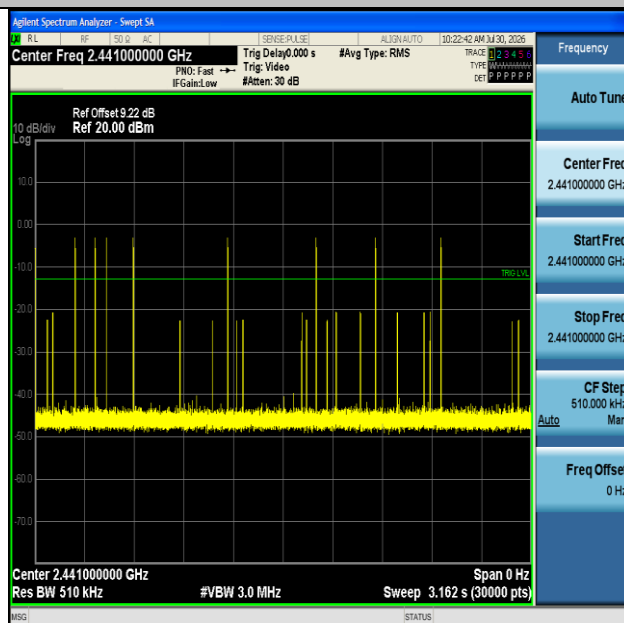


2DH5-Ant1-Hop-PASS





3DH5-Ant1-Hop-PASS





Appendix F: Number of hopping channels

Test Result

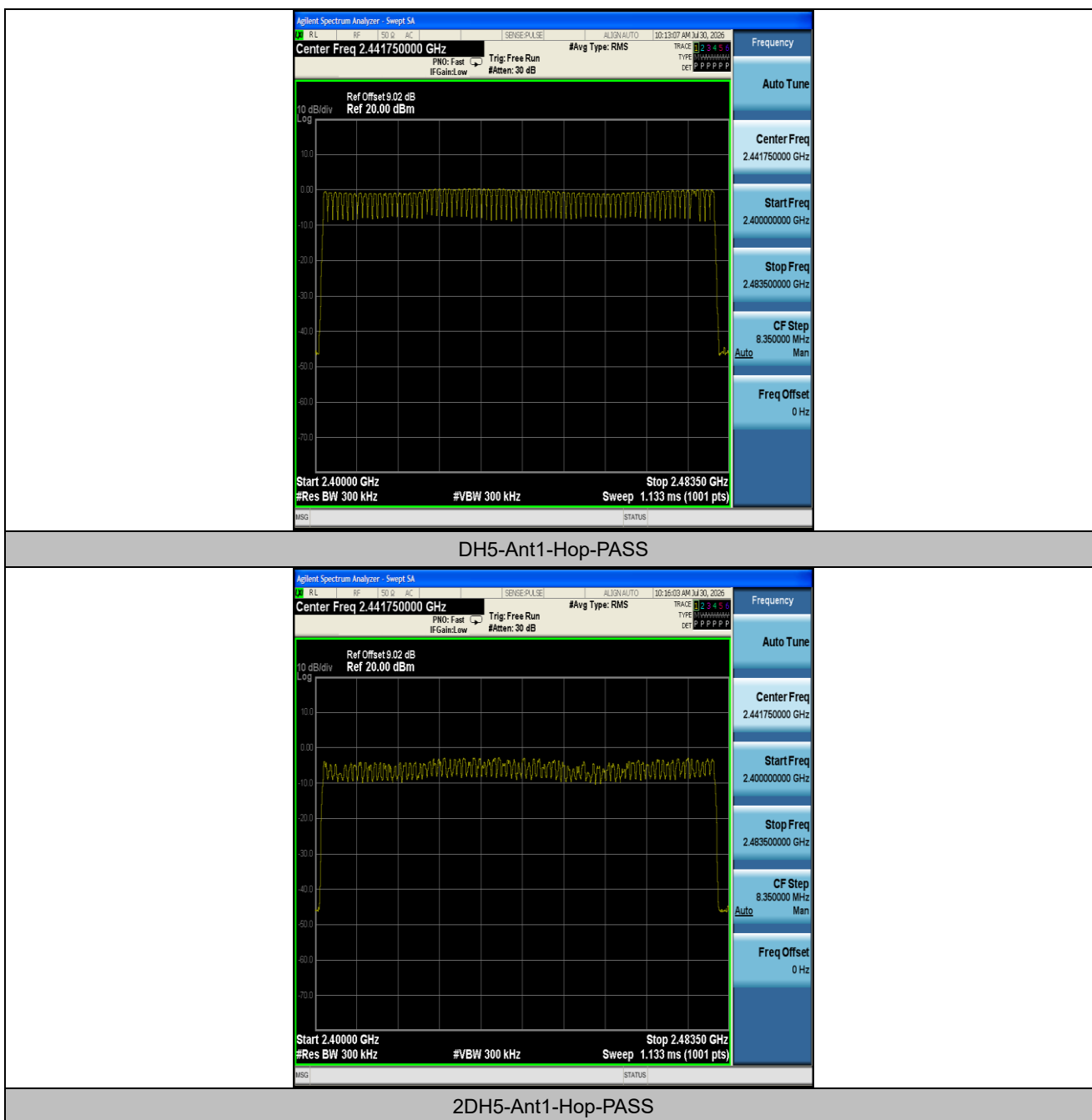
Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

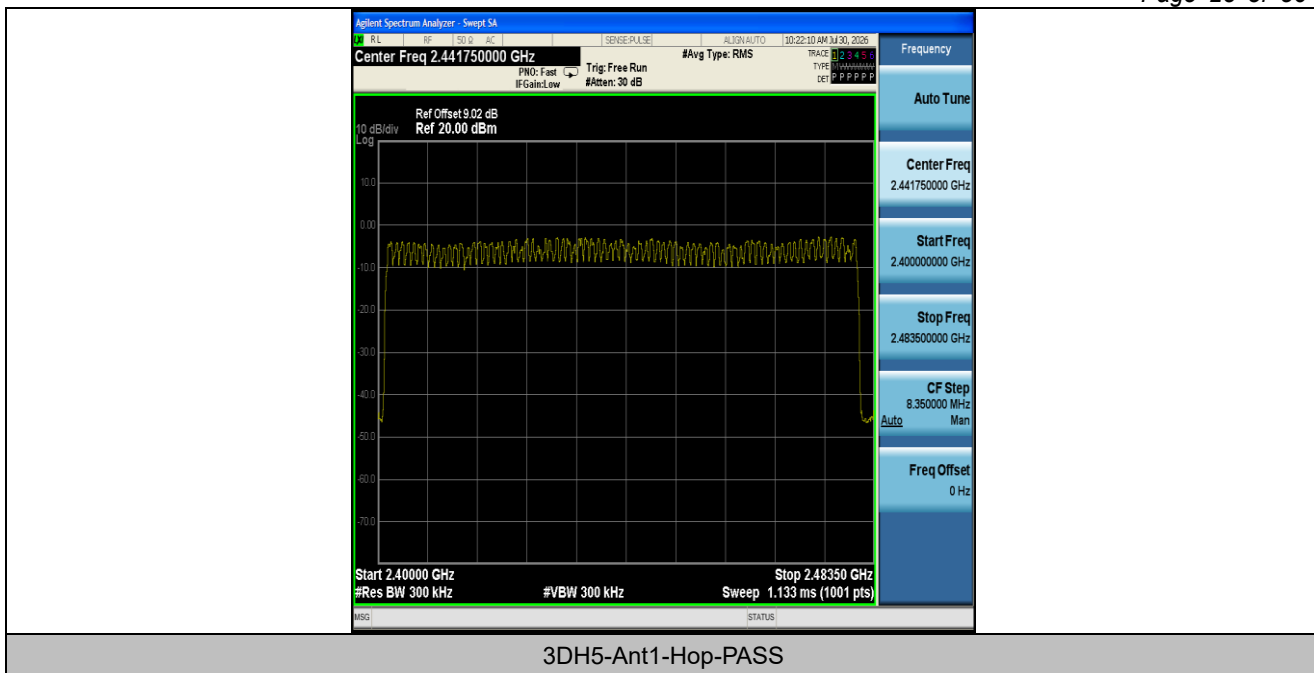
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs







Appendix G: Band edge measurements

Test Result

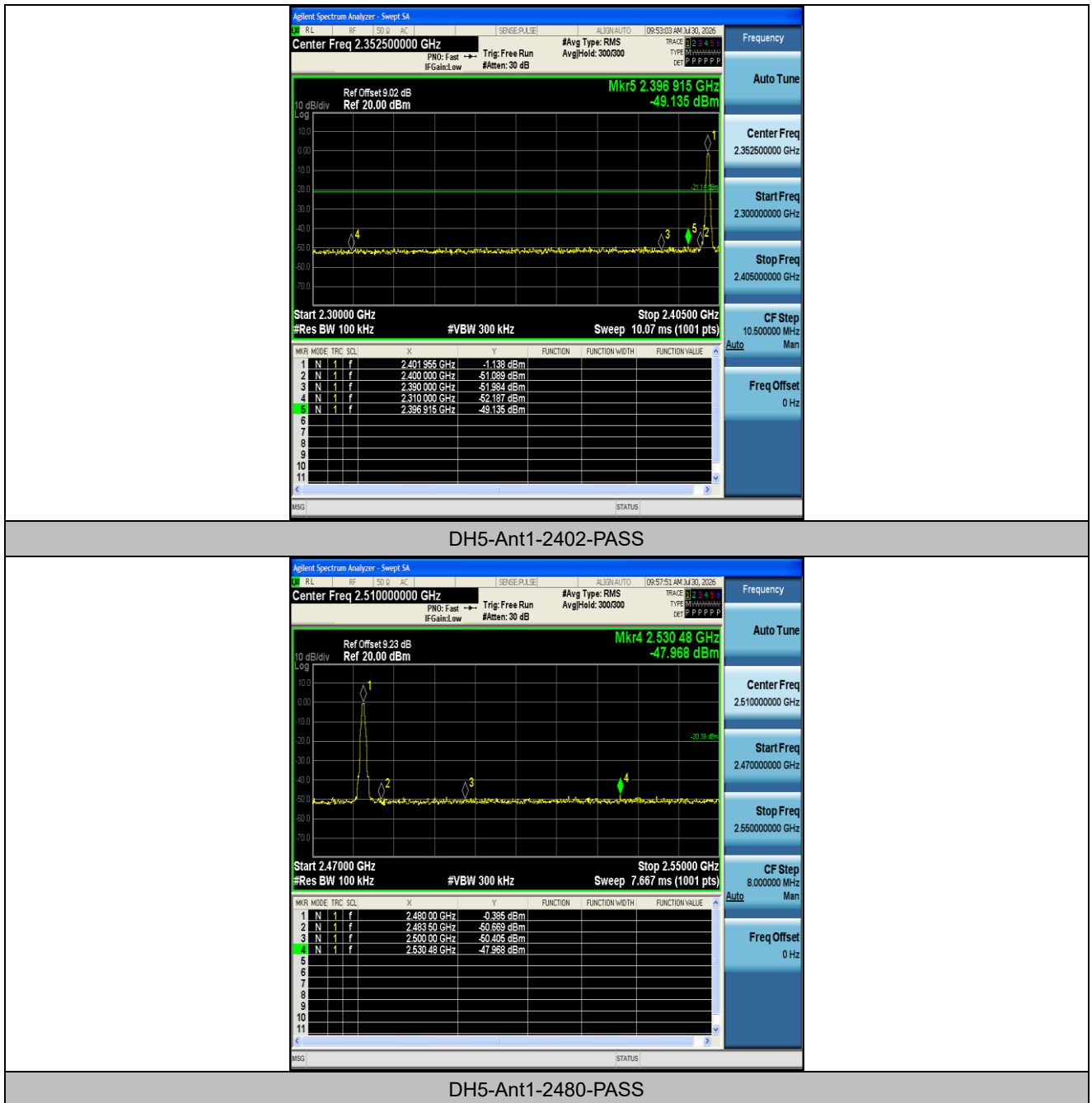
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.14	-49.14	≤-21.14	PASS
DH5	Ant1	High	2480	-0.39	-47.97	≤-20.39	PASS
DH5	Ant1	Low	Hop_2402	-1.35	-48.77	≤-21.35	PASS
DH5	Ant1	High	Hop_2480	-1.11	-48.31	≤-21.11	PASS
2DH5	Ant1	Low	2402	-4.65	-48.55	≤-24.65	PASS
2DH5	Ant1	High	2480	-3.51	-48.47	≤-23.51	PASS
2DH5	Ant1	Low	Hop_2402	-10.61	-48.21	≤-30.61	PASS
2DH5	Ant1	High	Hop_2480	-8.73	-48.39	≤-28.73	PASS
3DH5	Ant1	Low	2402	-6.40	-48.8	≤-26.4	PASS
3DH5	Ant1	High	2480	-3.35	-48.28	≤-23.35	PASS
3DH5	Ant1	Low	Hop_2402	-9.28	-49.2	≤-29.28	PASS
3DH5	Ant1	High	Hop_2480	-5.75	-47.24	≤-25.75	PASS

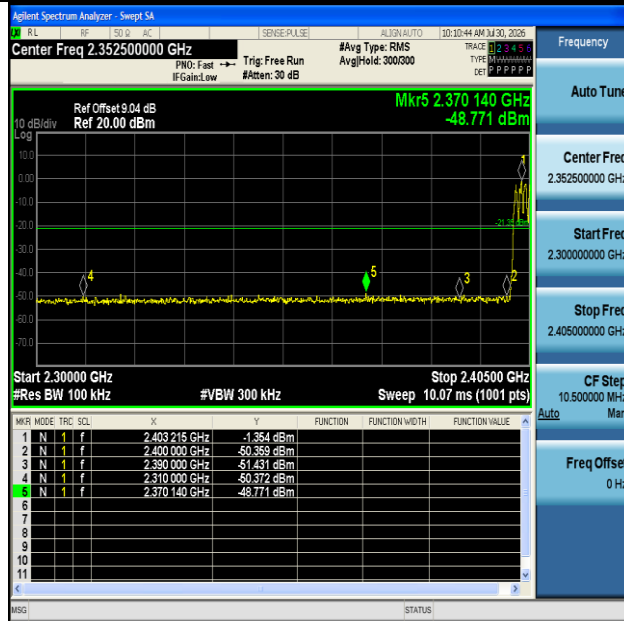
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



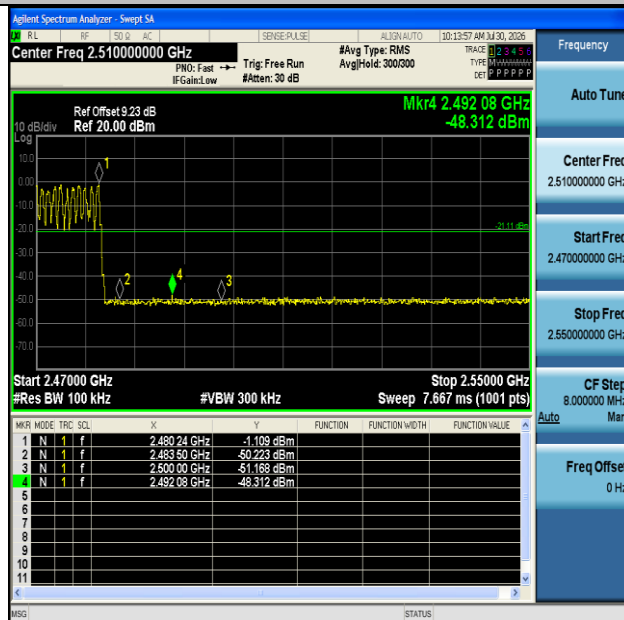


Test Graphs



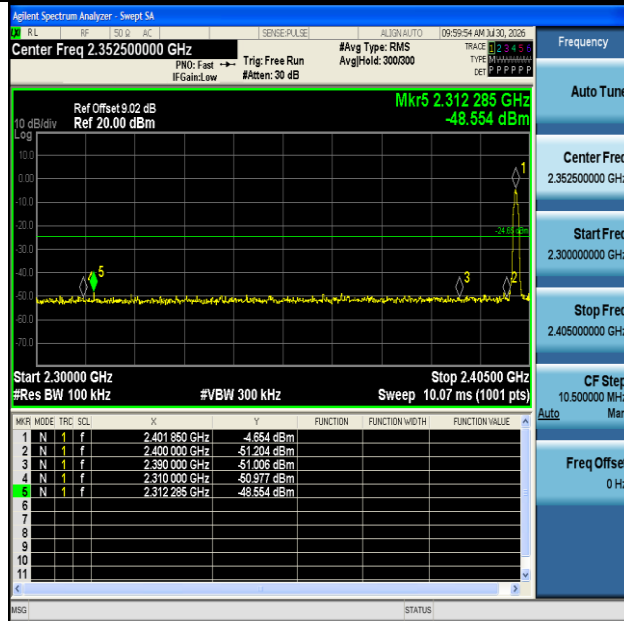


DH5-Ant1-Hop_2402-PASS

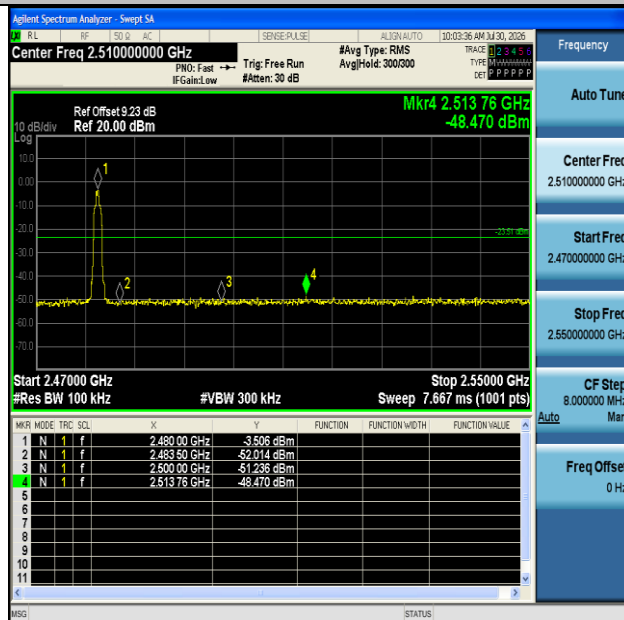


DH5-Ant1-Hop_2480-PASS



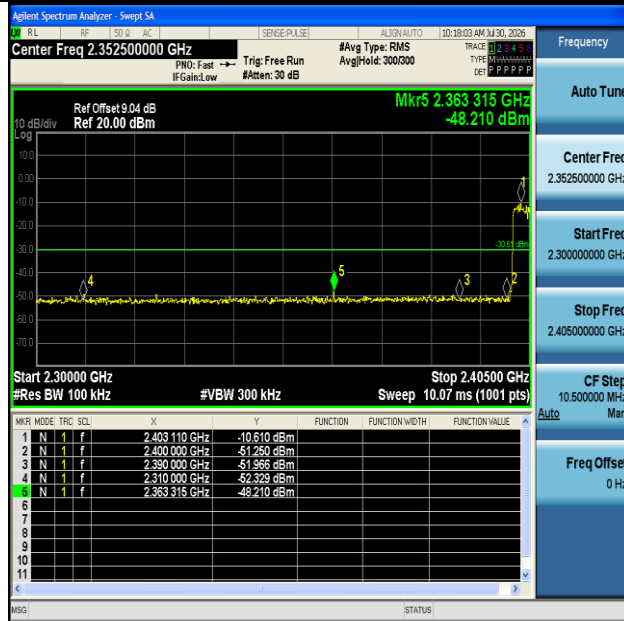


2DH5-Ant1-2402-PASS

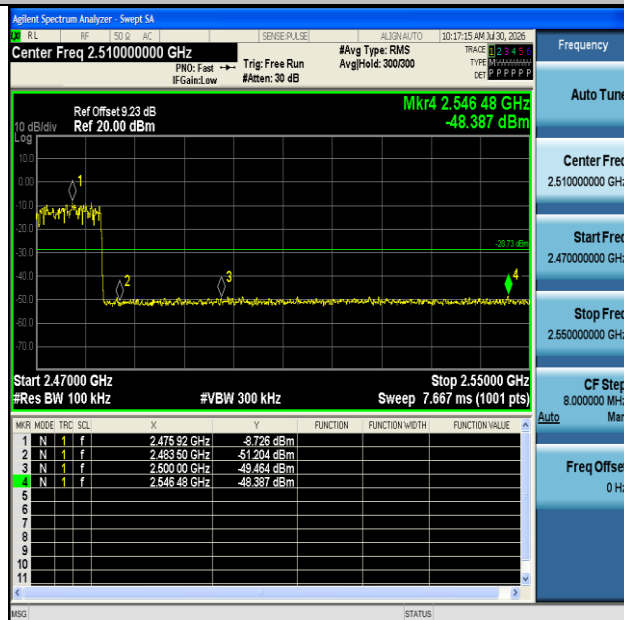


2DH5-Ant1-2480-PASS



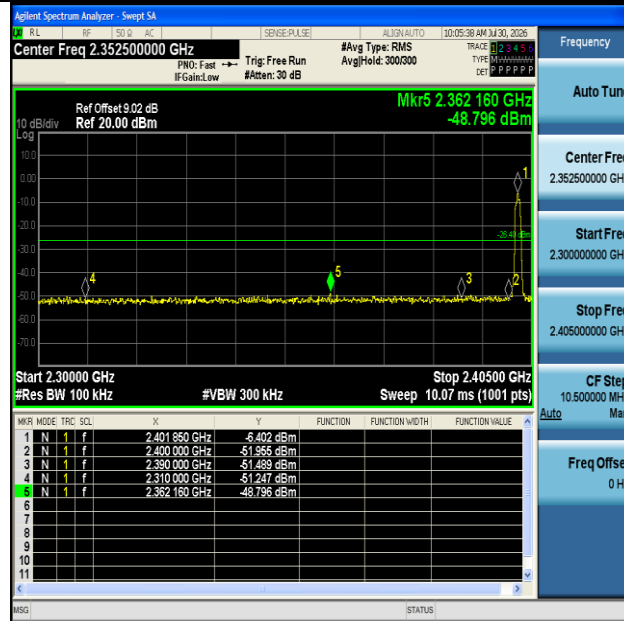


2DH5-Ant1-Hop_2402-PASS

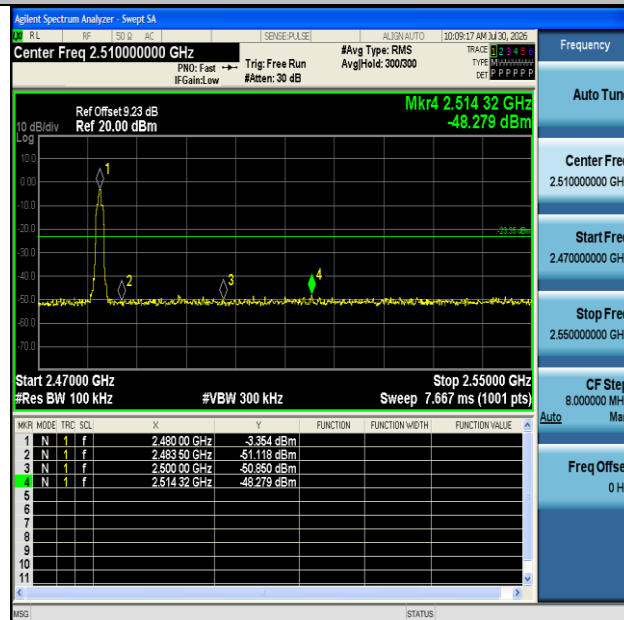


2DH5-Ant1-Hop_2480-PASS



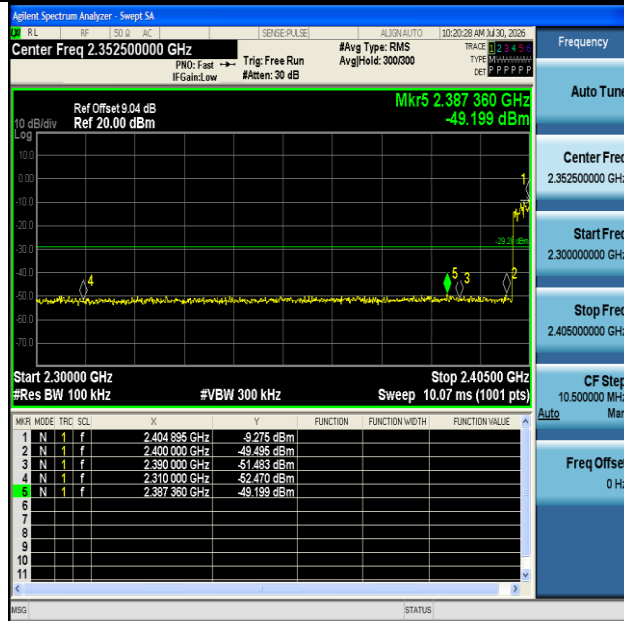


3DH5-Ant1-2402-PASS

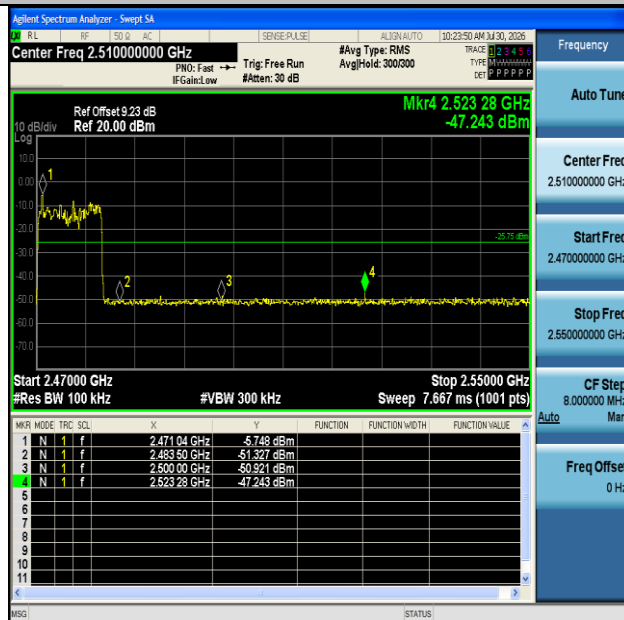


3DH5-Ant1-2480-PASS





3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS





Appendix H: Conducted Spurious Emission

Test Result

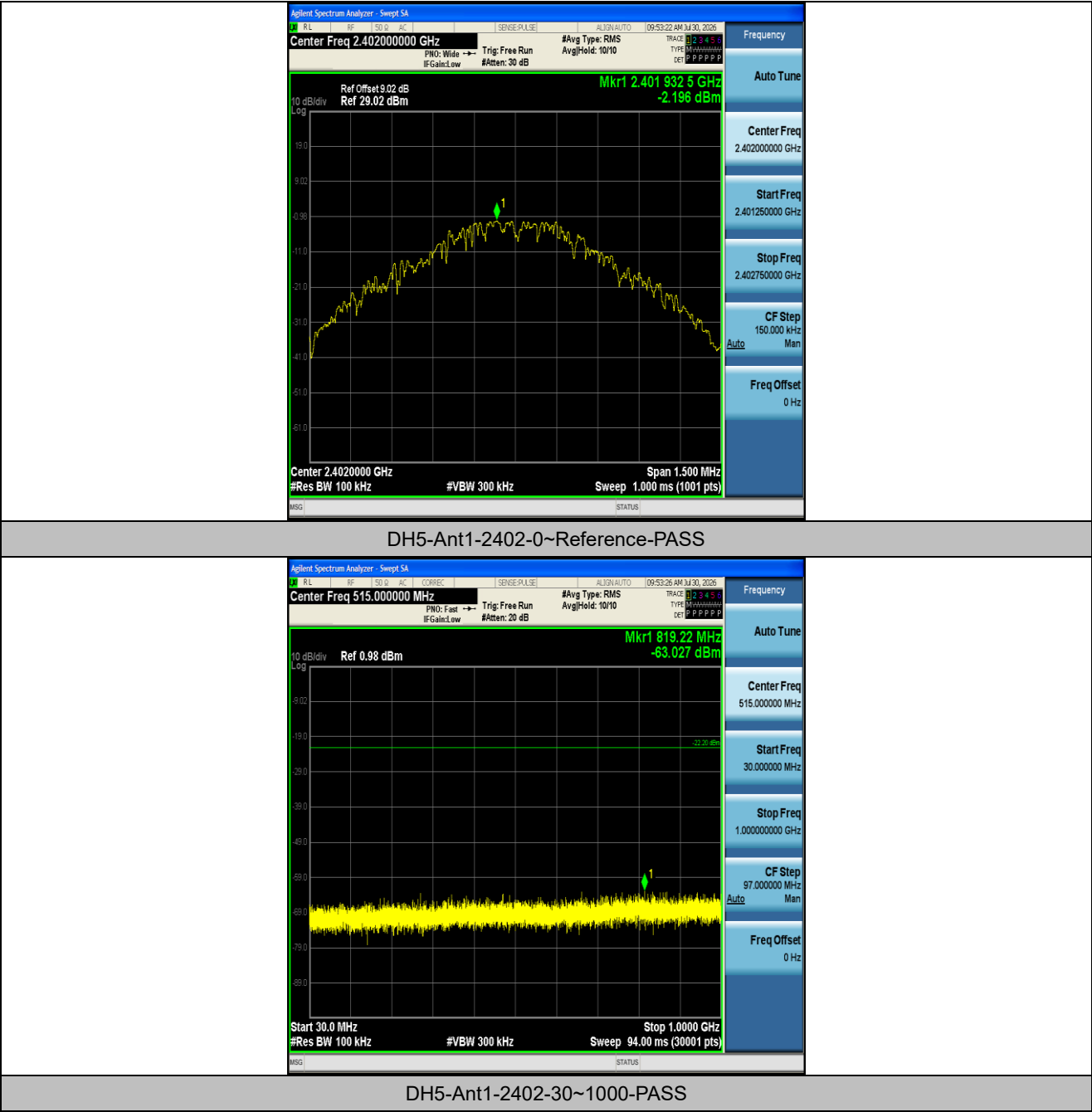
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-2.20	-2.20	---	PASS
DH5	Ant1	2402	30~1000	-2.20	-63.03	≤ -22.2	PASS
DH5	Ant1	2402	1000~26500	-2.20	-36.96	≤ -22.2	PASS
DH5	Ant1	2441	0~Reference	-0.83	-0.83	---	PASS
DH5	Ant1	2441	30~1000	-0.83	-62.17	≤ -20.83	PASS
DH5	Ant1	2441	1000~26500	-0.83	-37.71	≤ -20.83	PASS
DH5	Ant1	2480	0~Reference	-0.98	-0.98	---	PASS
DH5	Ant1	2480	30~1000	-0.98	-62.79	≤ -20.98	PASS
DH5	Ant1	2480	1000~26500	-0.98	-37.7	≤ -20.98	PASS
2DH5	Ant1	2402	0~Reference	-4.28	-4.28	---	PASS
2DH5	Ant1	2402	30~1000	-4.28	-62.58	≤ -24.28	PASS
2DH5	Ant1	2402	1000~26500	-4.28	-37.23	≤ -24.28	PASS
2DH5	Ant1	2441	0~Reference	-4.84	-4.84	---	PASS
2DH5	Ant1	2441	30~1000	-4.84	-62.69	≤ -24.84	PASS
2DH5	Ant1	2441	1000~26500	-4.84	-37.7	≤ -24.84	PASS
2DH5	Ant1	2480	0~Reference	-5.27	-5.27	---	PASS
2DH5	Ant1	2480	30~1000	-5.27	-62.1	≤ -25.27	PASS
2DH5	Ant1	2480	1000~26500	-5.27	-37.95	≤ -25.27	PASS
3DH5	Ant1	2402	0~Reference	-9.01	-9.01	---	PASS
3DH5	Ant1	2402	30~1000	-9.01	-62.86	≤ -29.01	PASS
3DH5	Ant1	2402	1000~26500	-9.01	-38.13	≤ -29.01	PASS
3DH5	Ant1	2441	0~Reference	-3.37	-3.37	---	PASS
3DH5	Ant1	2441	30~1000	-3.37	-62.75	≤ -23.37	PASS
3DH5	Ant1	2441	1000~26500	-3.37	-37.86	≤ -23.37	PASS
3DH5	Ant1	2480	0~Reference	-7.24	-7.24	---	PASS
3DH5	Ant1	2480	30~1000	-7.24	-62.09	≤ -27.24	PASS
3DH5	Ant1	2480	1000~26500	-7.24	-37.25	≤ -27.24	PASS

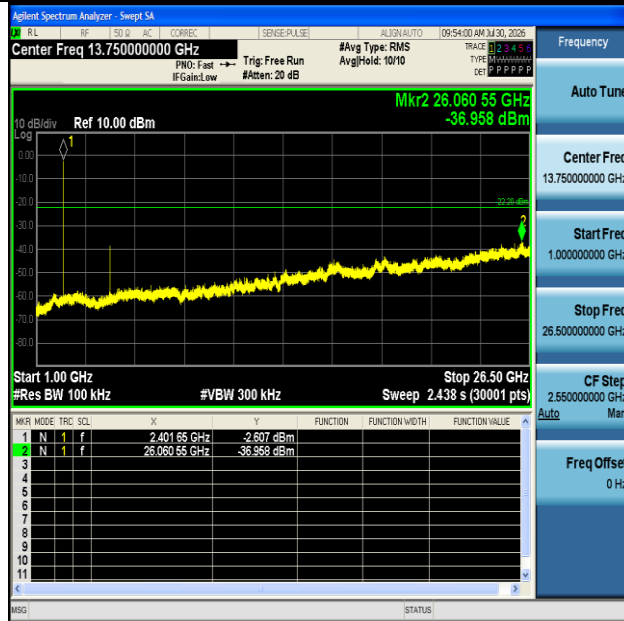
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.





Test Graphs



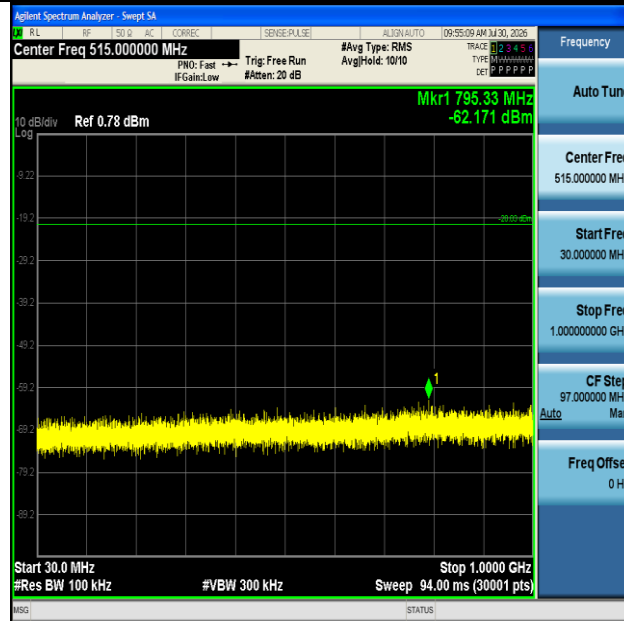


DH5-Ant1-2402-1000~26500-PASS

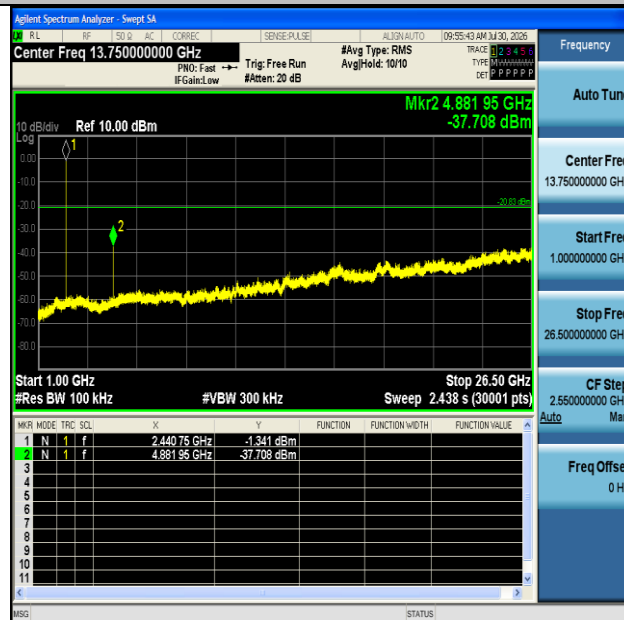


DH5-Ant1-2441-0~Reference-PASS





DH5-Ant1-2441-30~1000-PASS

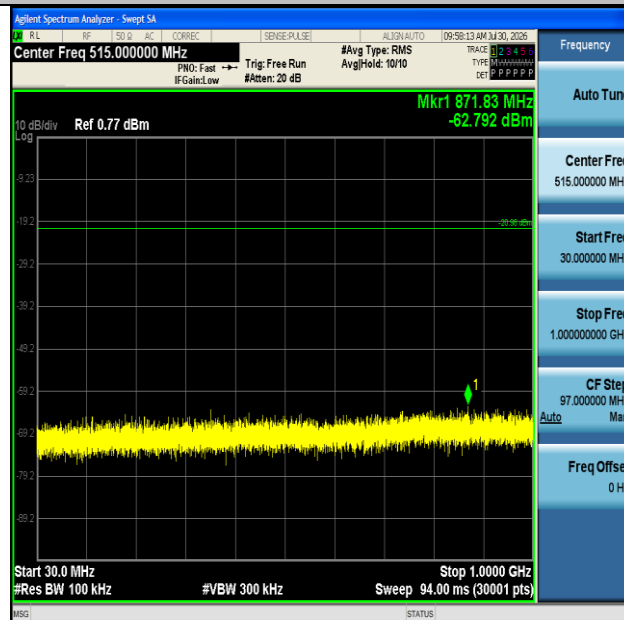


DH5-Ant1-2441-1000~26500-PASS



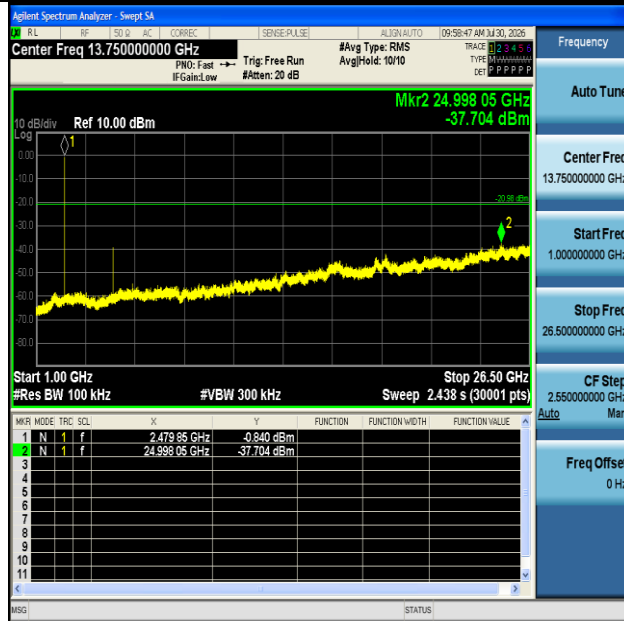


DH5-Ant1-2480-0~Reference-PASS



DH5-Ant1-2480-30~1000-PASS



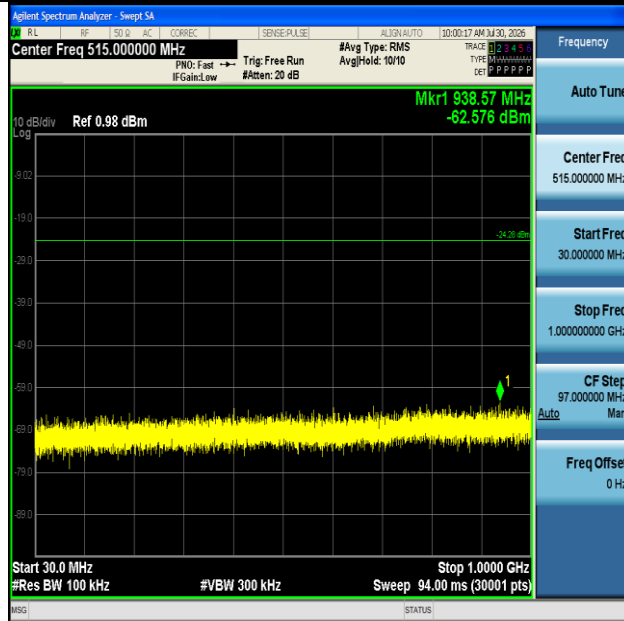


DH5-Ant1-2480-1000~26500-PASS

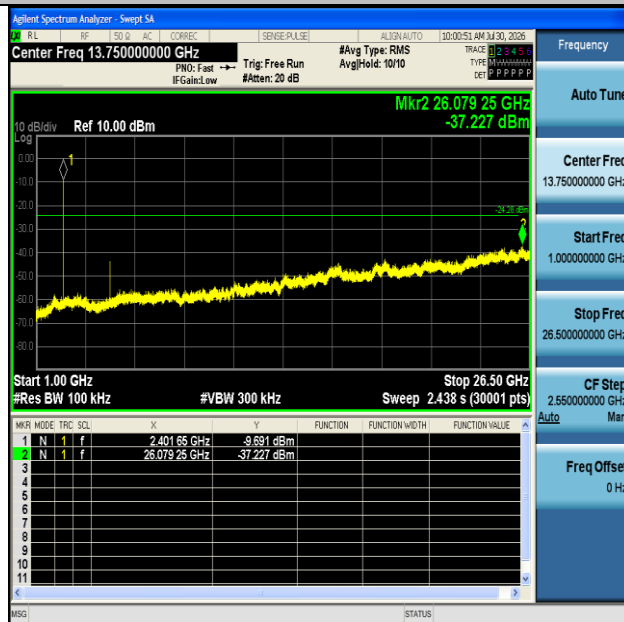


2DH5-Ant1-2402-0~Reference-PASS



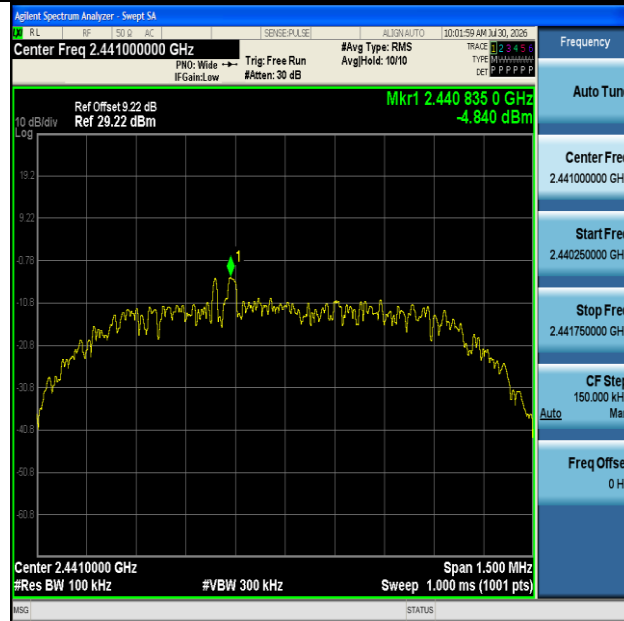


2DH5-Ant1-2402-30~1000-PASS

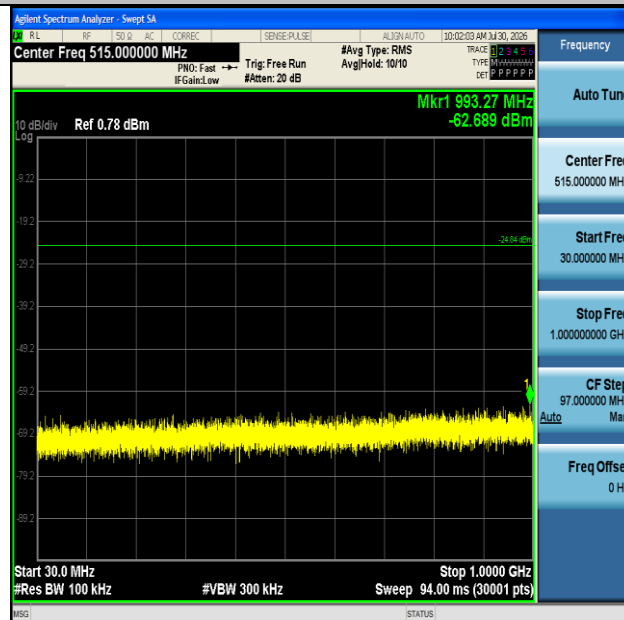


2DH5-Ant1-2402-1000~26500-PASS





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

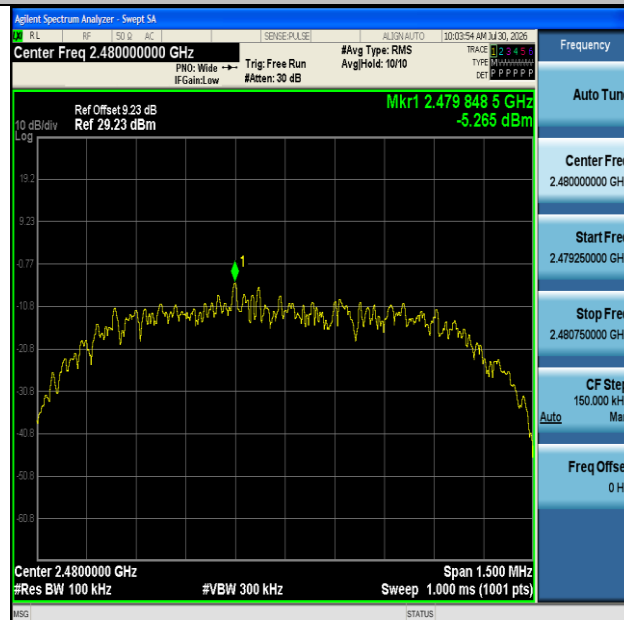


2DH5-Ant1-2441-30~1000-PASS





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

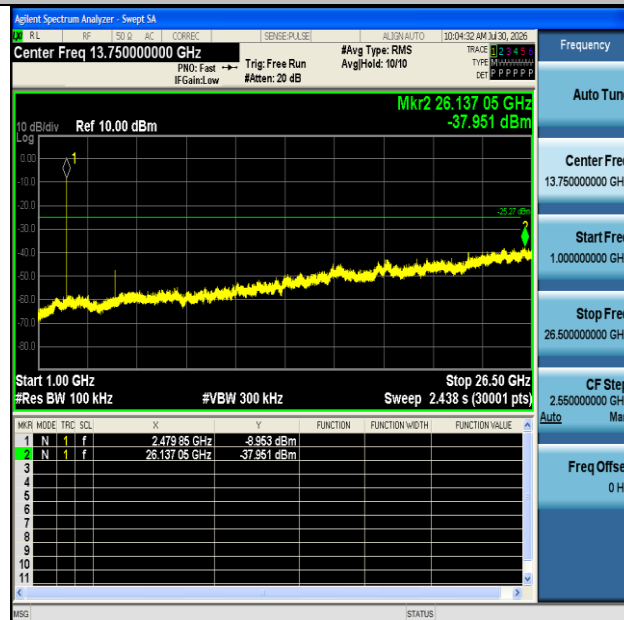


2DH5-Ant1-2480-0~Reference-PASS



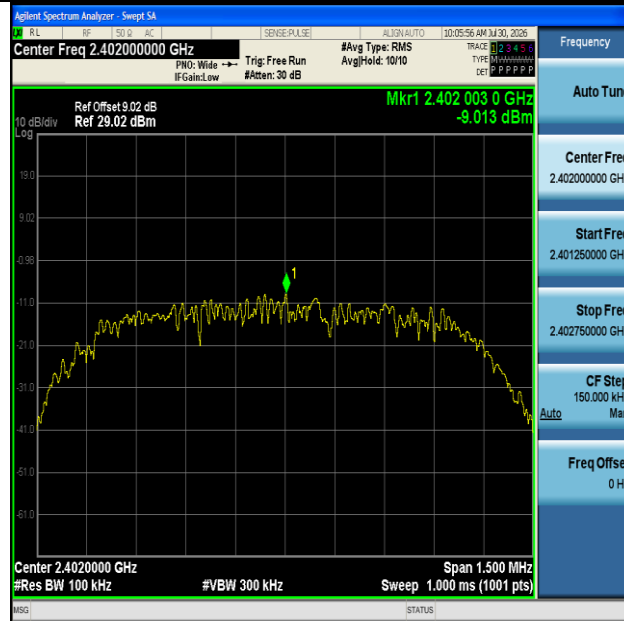


2DH5-Ant1-2480-30~1000-PASS



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



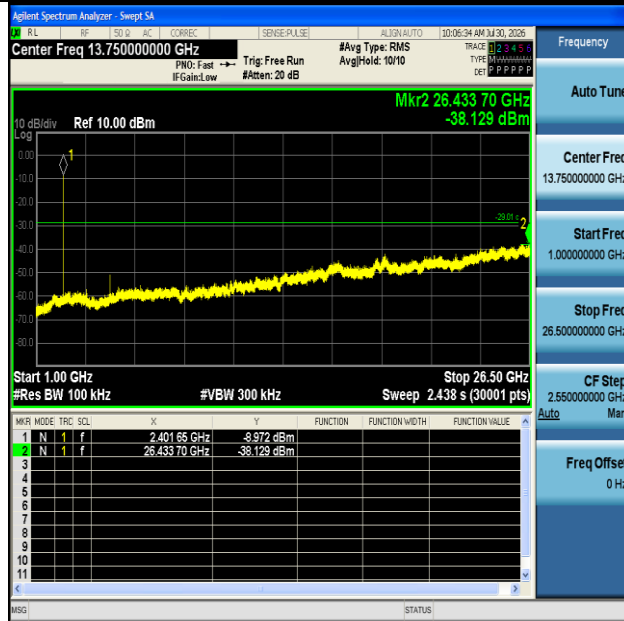


3DH5-Ant1-2402-0~Reference-PASS

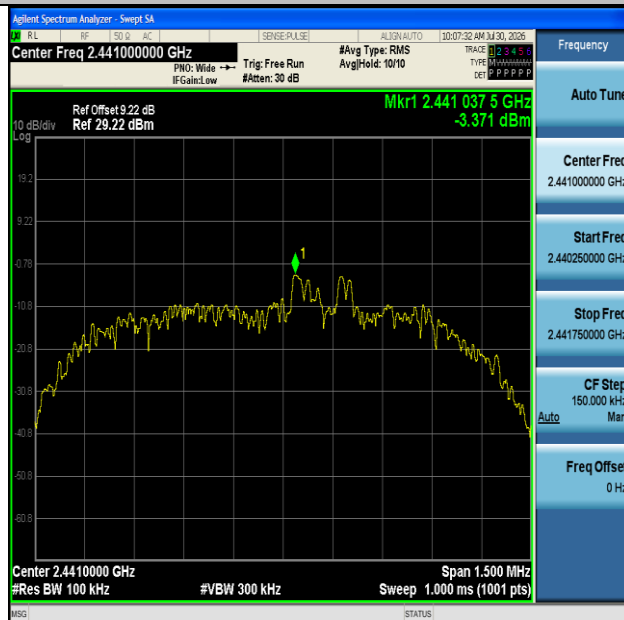


3DH5-Ant1-2402-30~1000-PASS



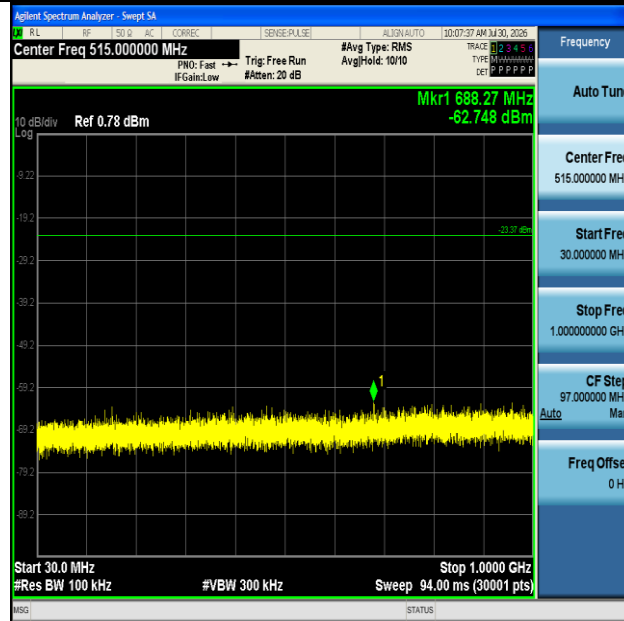


3DH5-Ant1-2402-1000~26500-PASS



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





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

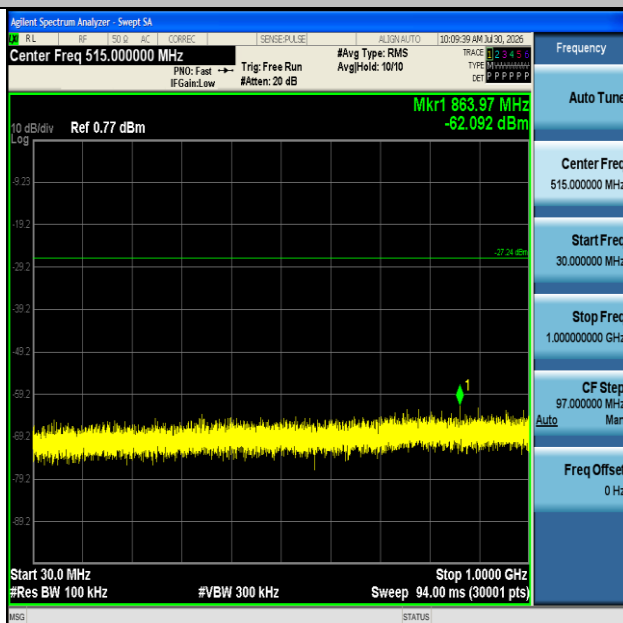


3DH5-Ant1-2441-1000~26500-PASS



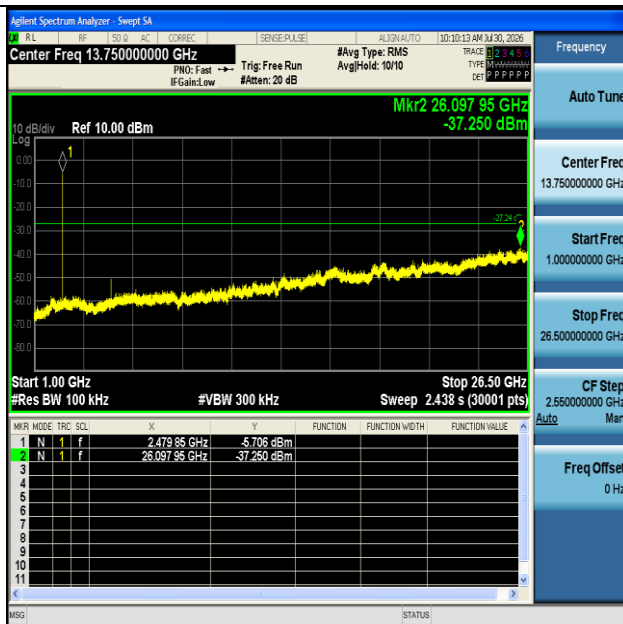


3DH5-Ant1-2480-0~Reference-PASS



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





3DH5-Ant1-2480-1000~26500-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	2.90	3.75	77.33	1.12
DH5	Ant1	2441	2.90	3.75	77.33	1.12
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	2.90	3.75	77.33	1.12
3DH5	Ant1	2402	2.91	3.75	77.60	1.10
3DH5	Ant1	2441	2.90	3.75	77.33	1.12
3DH5	Ant1	2480	2.90	3.75	77.33	1.12

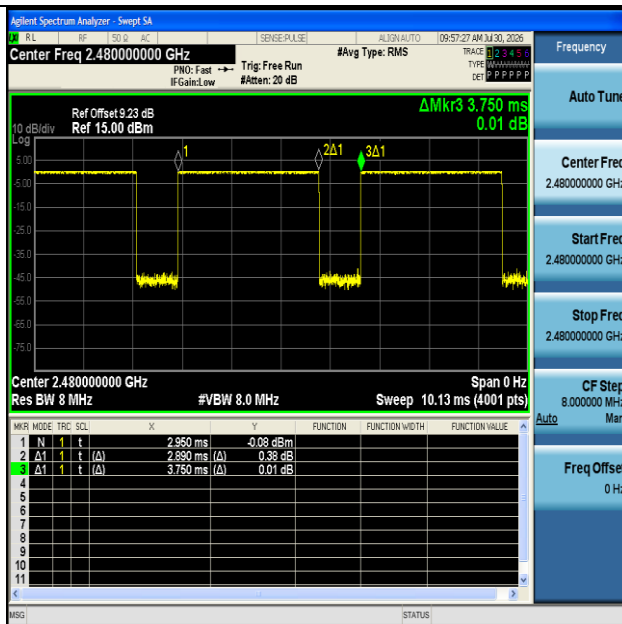
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



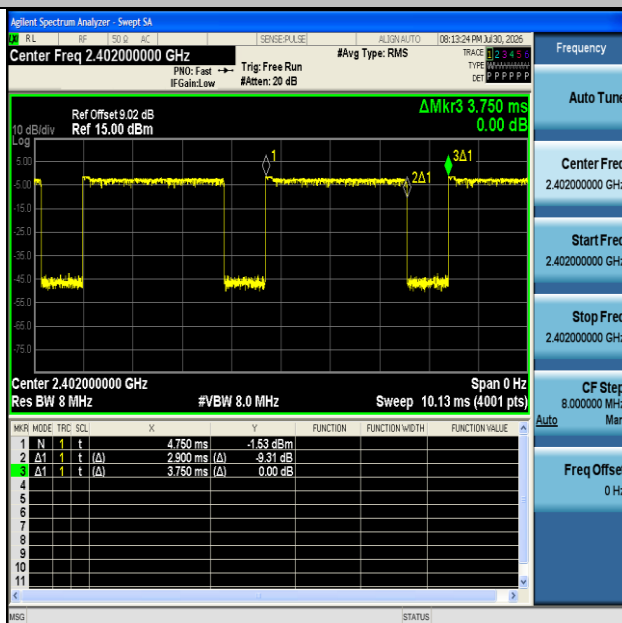


Test Graphs



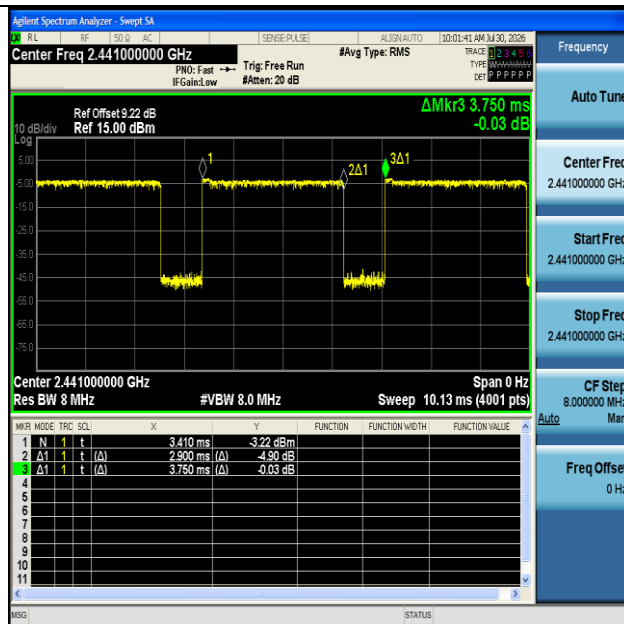


NTNV-DH5-Ant1-2480

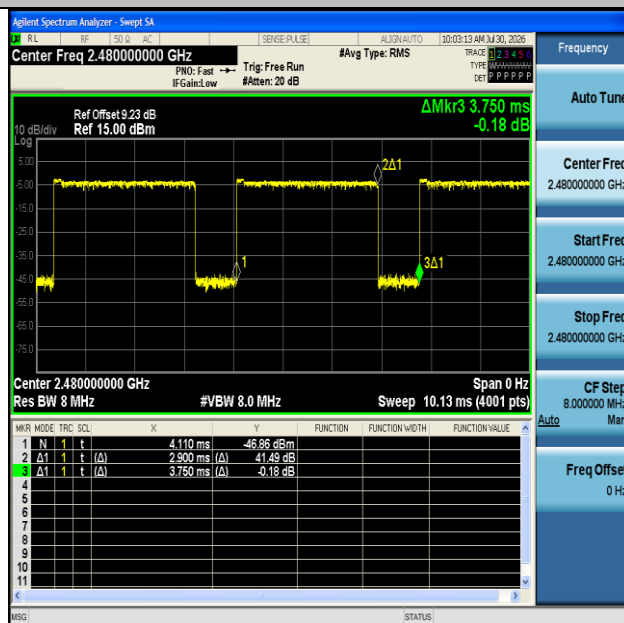


NTNV-2DH5-Ant1-2402





NTNV-2DH5-Ant1-2441

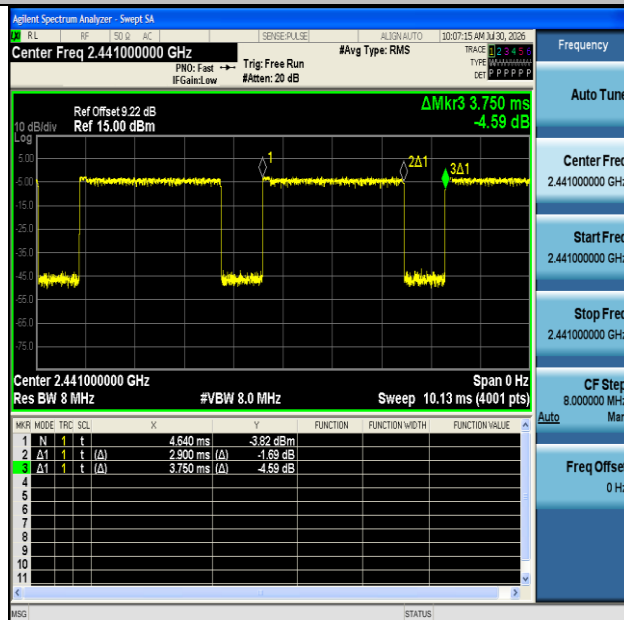


NTNV-2DH5-Ant1-2480



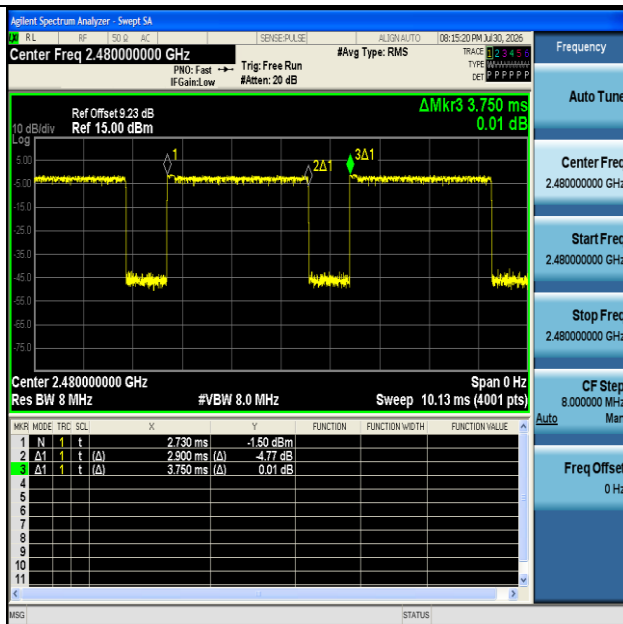


NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441





NTNV-3DH5-Ant1-2480

