



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

Product Name: Wireless Dual-Mode Amplifier Speaker

Trade Mark: XHj

Test Model: BS-01

FCC ID: 2BV3P-BS-01

Environmental Conditions

Temperature:	23.5°C
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	1.023	2401.466	2402.489	---	---
DH5	Ant1	2441	0.969	2440.517	2441.486	---	---
DH5	Ant1	2480	0.969	2479.517	2480.486	---	---
2DH5	Ant1	2402	1.287	2401.358	2402.645	---	---
2DH5	Ant1	2441	1.314	2440.337	2441.651	---	---
2DH5	Ant1	2480	1.284	2479.361	2480.645	---	---

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





Test Graphs





DH5-Ant1-2480



2DH5-Ant1-2402





2DH5-Ant1-2441



2DH5-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	0.88261	2401.5510	2402.4336	---	---
DH5	Ant1	2441	0.86882	2440.5519	2441.4207	---	---
DH5	Ant1	2480	0.87672	2479.5551	2480.4318	---	---
2DH5	Ant1	2402	1.1988	2401.3924	2402.5912	---	---
2DH5	Ant1	2441	1.1818	2440.4009	2441.5827	---	---
2DH5	Ant1	2480	1.1981	2479.3952	2480.5933	---	---

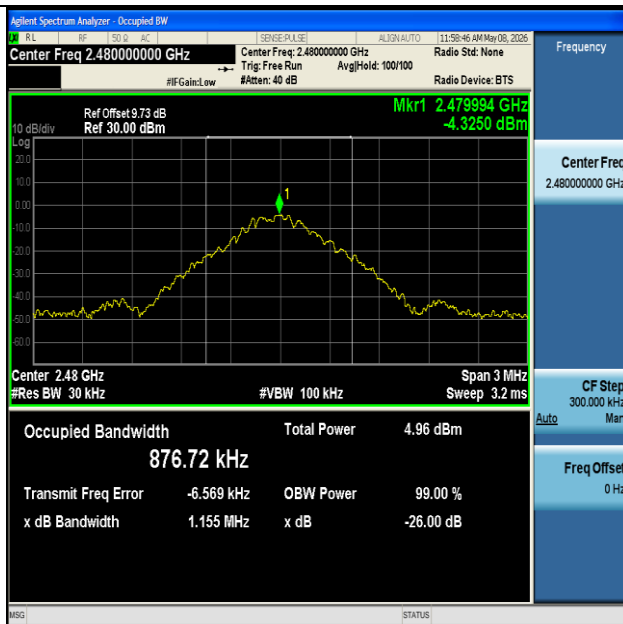
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



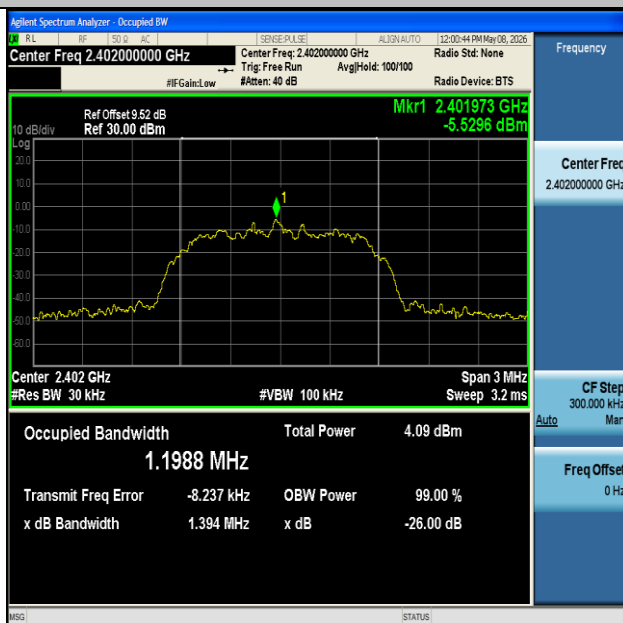


Test Graphs



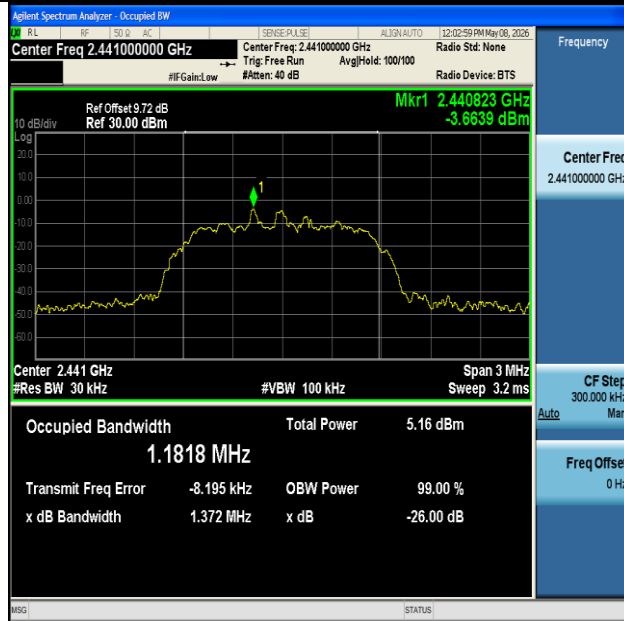


DH5-Ant1-2480

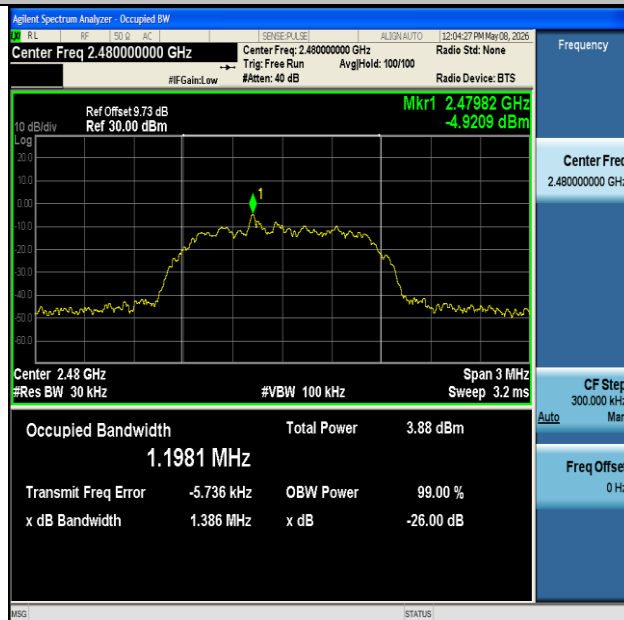


2DH5-Ant1-2402





2DH5-Ant1-2441



2DH5-Ant1-2480





Appendix C: Maximum peak conducted output power

Test Result

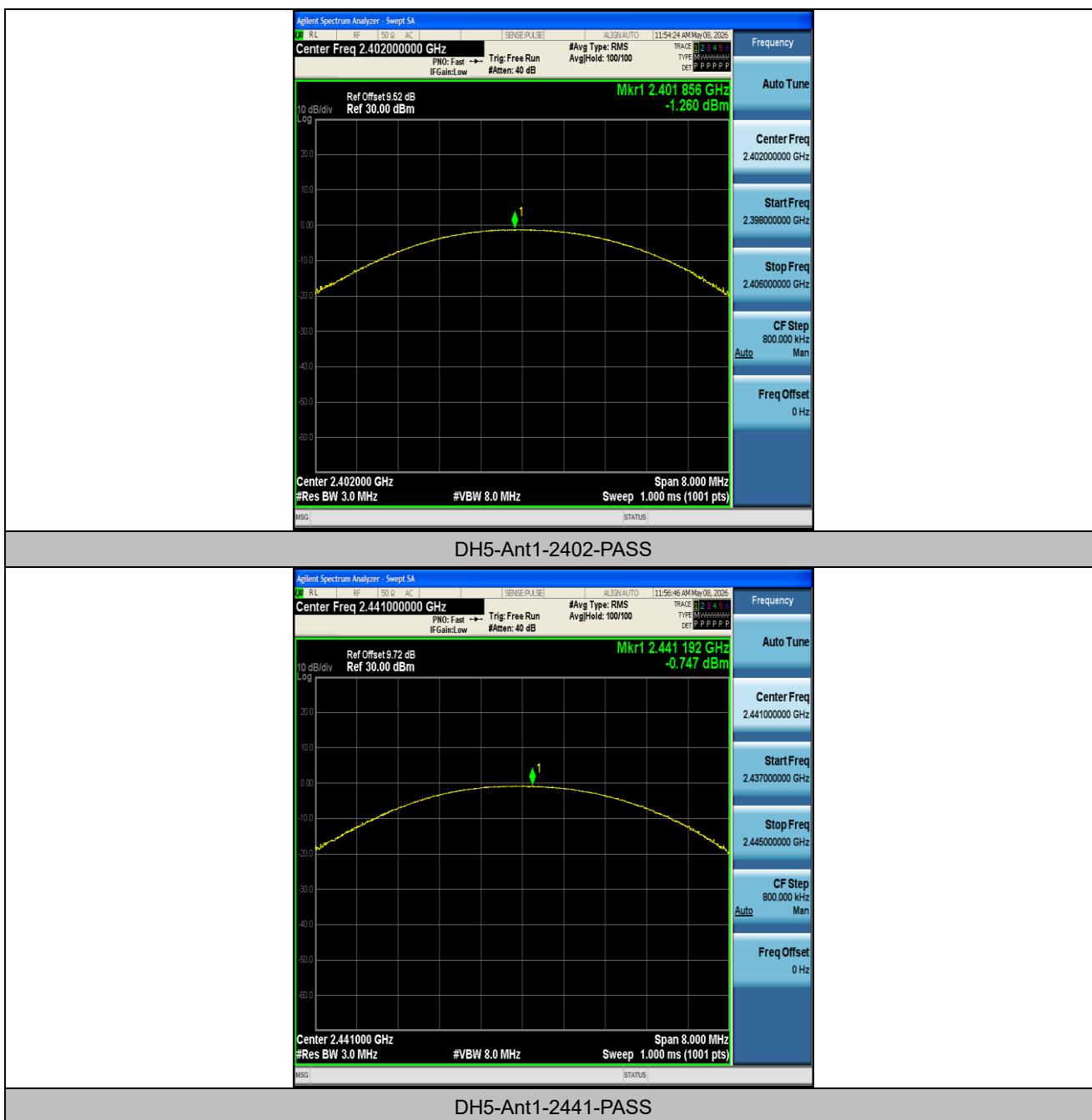
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	-1.26	≤20.97	PASS
DH5	Ant1	2441	-0.75	≤20.97	PASS
DH5	Ant1	2480	-1.36	≤20.97	PASS
2DH5	Ant1	2402	-0.57	≤20.97	PASS
2DH5	Ant1	2441	-0.19	≤20.97	PASS
2DH5	Ant1	2480	-0.75	≤20.97	PASS

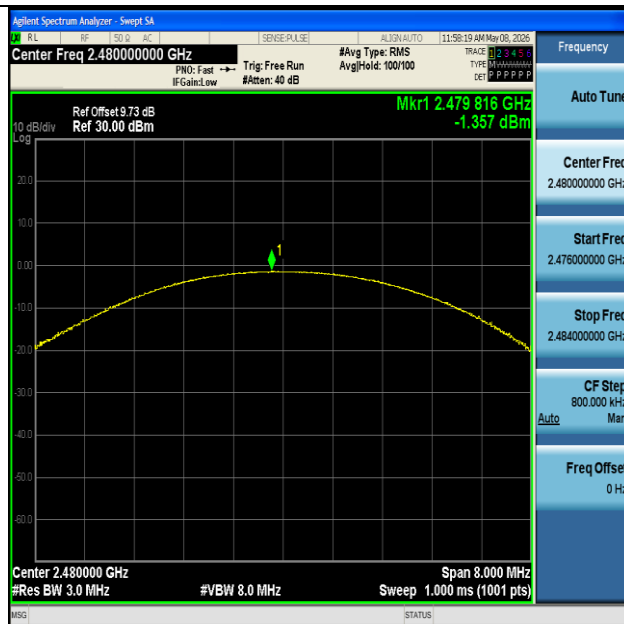
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



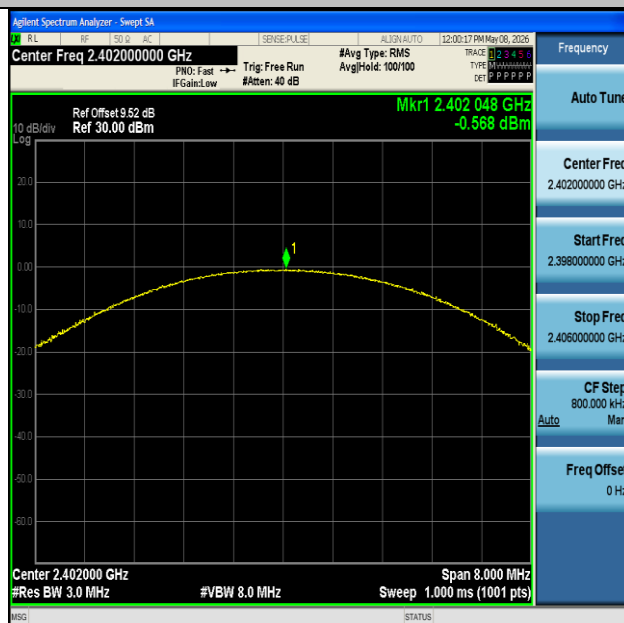


Test Graphs



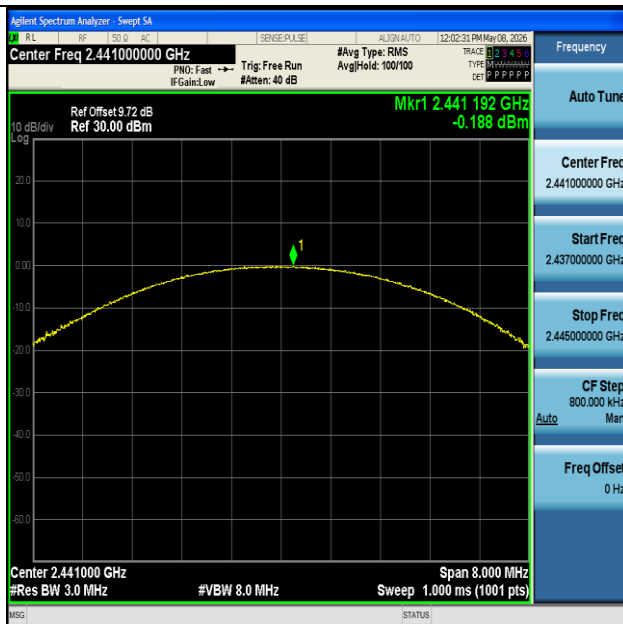


DH5-Ant1-2480-PASS

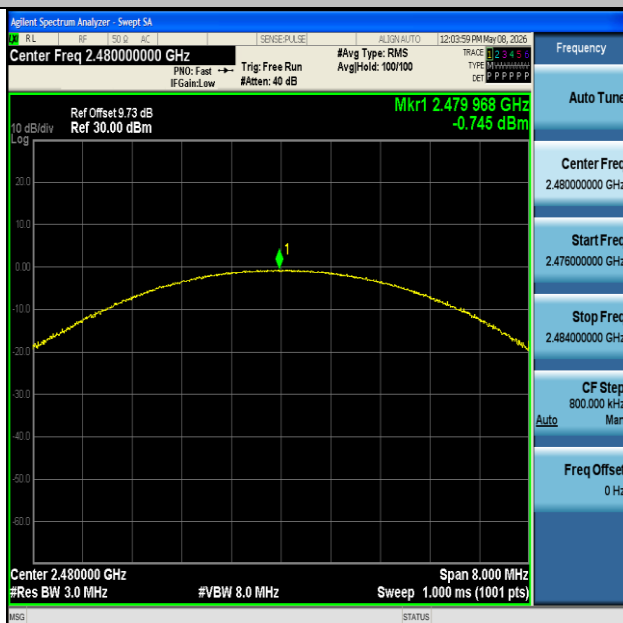


2DH5-Ant1-2402-PASS





2DH5-Ant1-2441-PASS



2DH5-Ant1-2480-PASS





Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.004	≥ 0.682	PASS
2DH5	Ant1	Hop	1.182	≥ 0.876	PASS

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





Test Graphs





Appendix E: Time of occupancy

Test Result

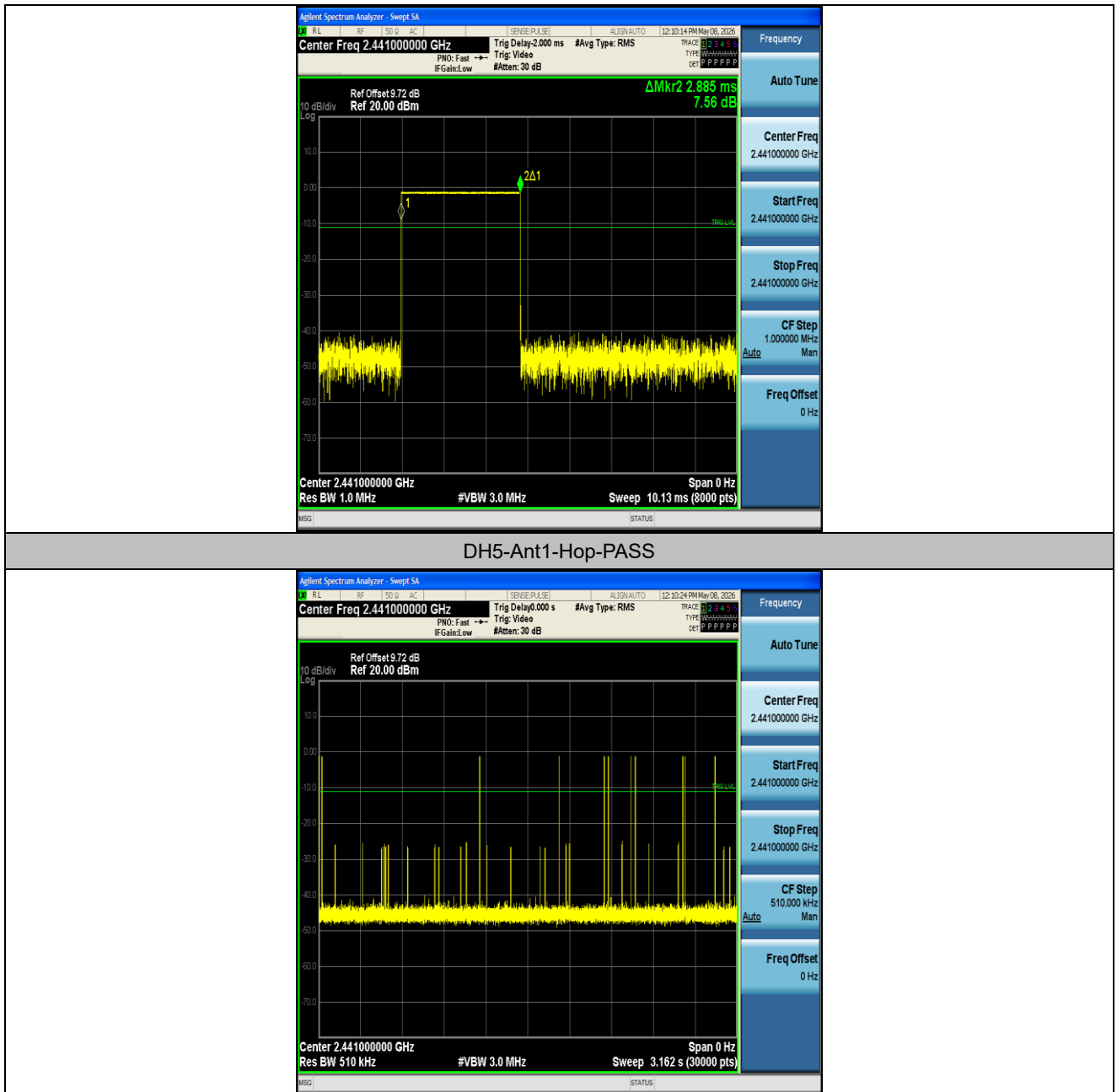
Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.885	110	0.317	≤0.4	PASS
2DH5	Ant1	Hop	2.891	130	0.376	≤0.4	PASS

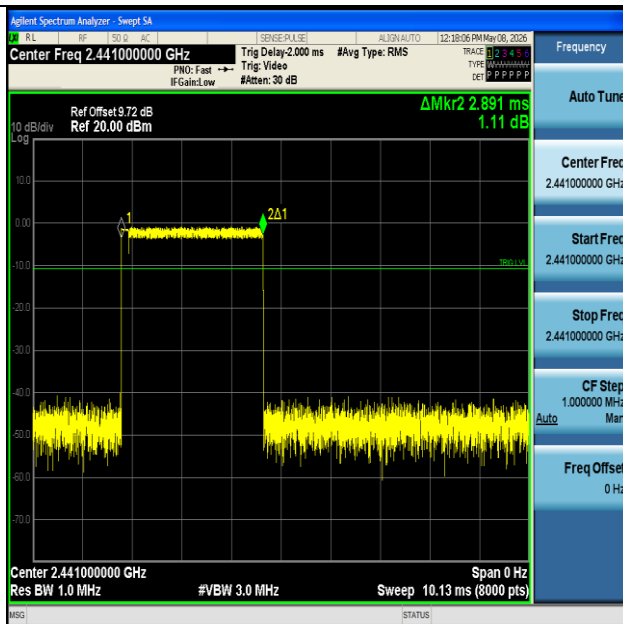
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



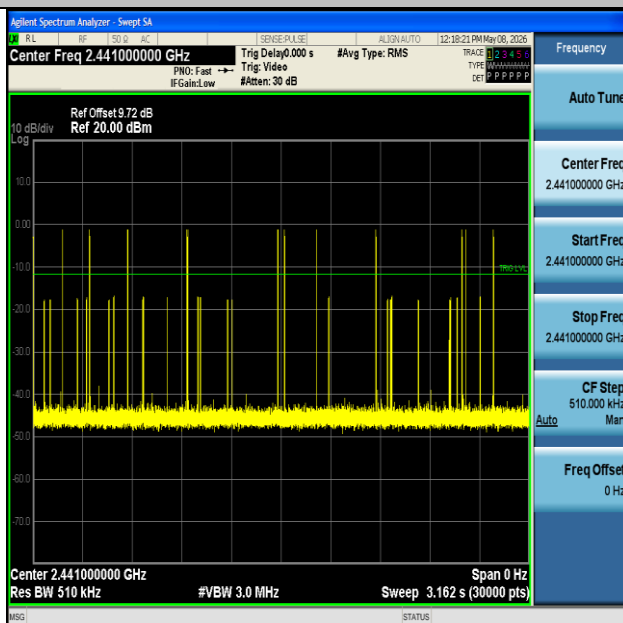


Test Graphs





2DH5-Ant1-Hop-PASS





Appendix F: Number of hopping channels

Test Result

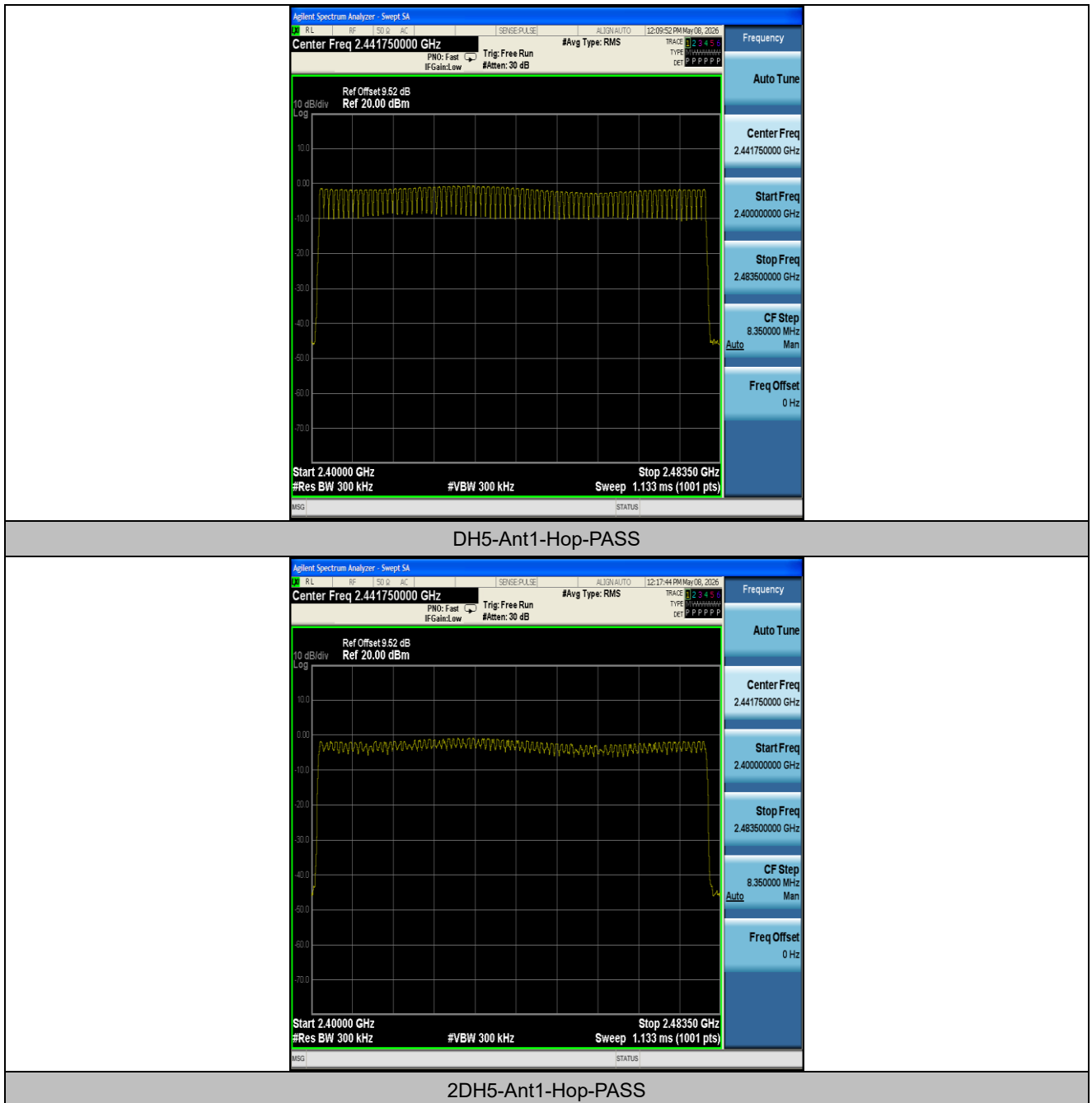
Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS

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





Test Graphs





Appendix G: Band edge measurements

Test Result

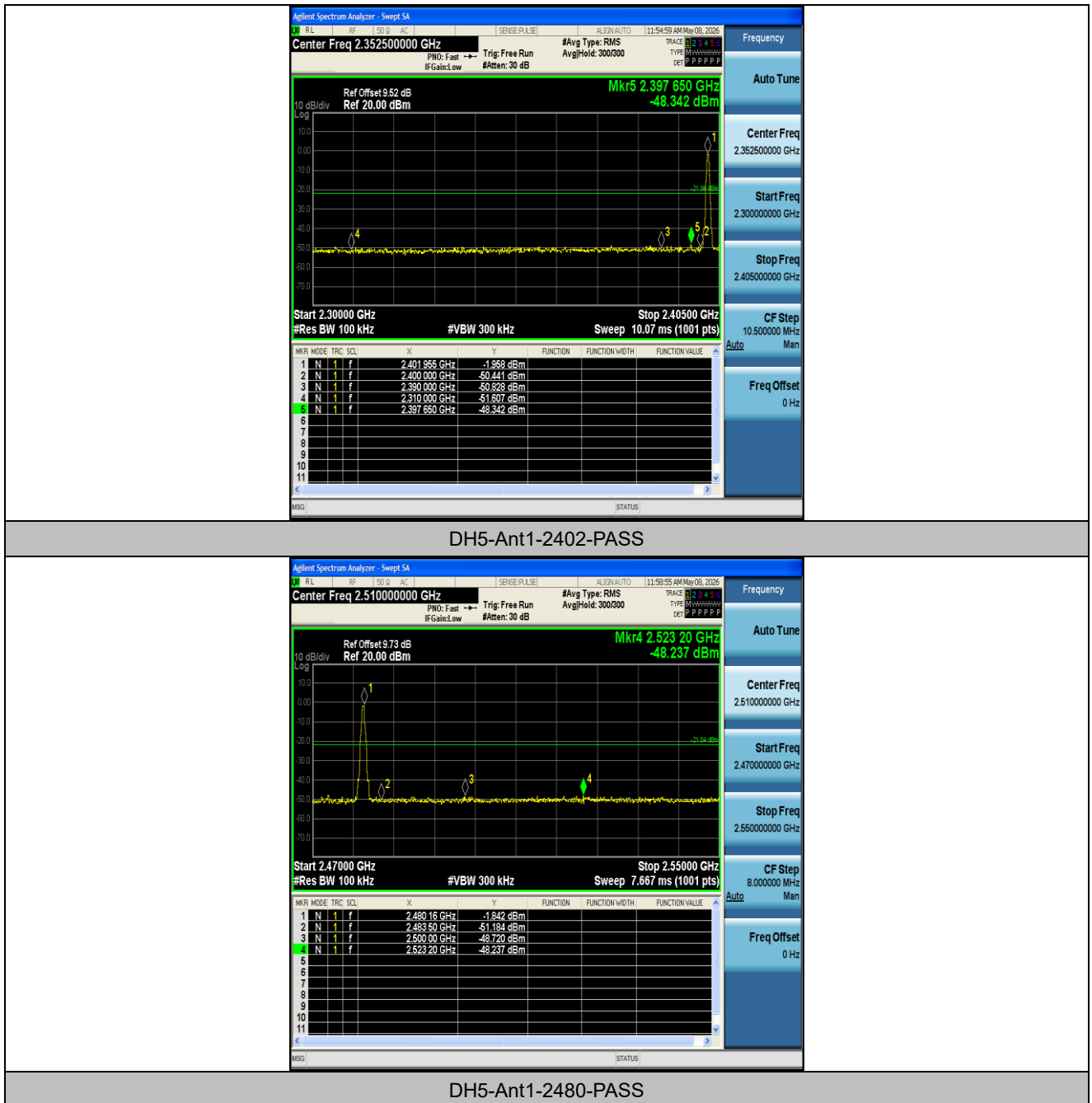
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.96	-48.34	≤ -21.96	PASS
DH5	Ant1	High	2480	-1.84	-48.24	≤ -21.84	PASS
DH5	Ant1	Low	Hop_2402	-2.27	-47.95	≤ -22.27	PASS
DH5	Ant1	High	Hop_2480	-2.14	-47.68	≤ -22.14	PASS
2DH5	Ant1	Low	2402	-3.11	-48.49	≤ -23.11	PASS
2DH5	Ant1	High	2480	-2.03	-48.32	≤ -22.03	PASS
2DH5	Ant1	Low	Hop_2402	-5.73	-48.41	≤ -25.73	PASS
2DH5	Ant1	High	Hop_2480	-5.52	-47.78	≤ -25.52	PASS

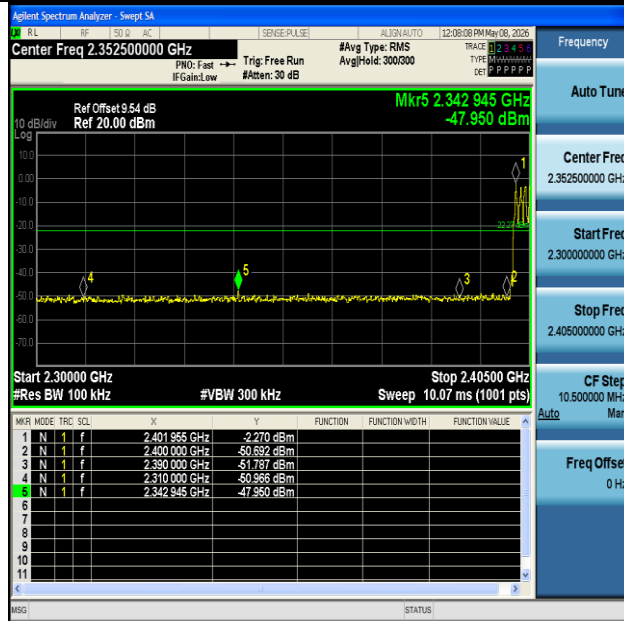
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



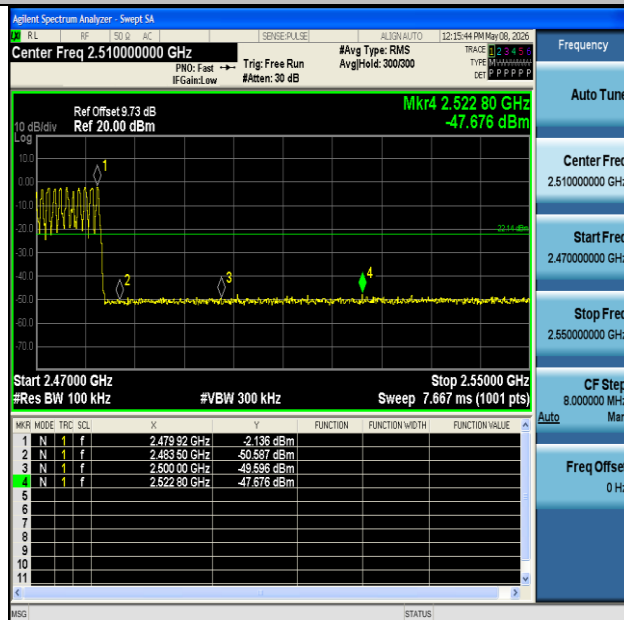


Test Graphs



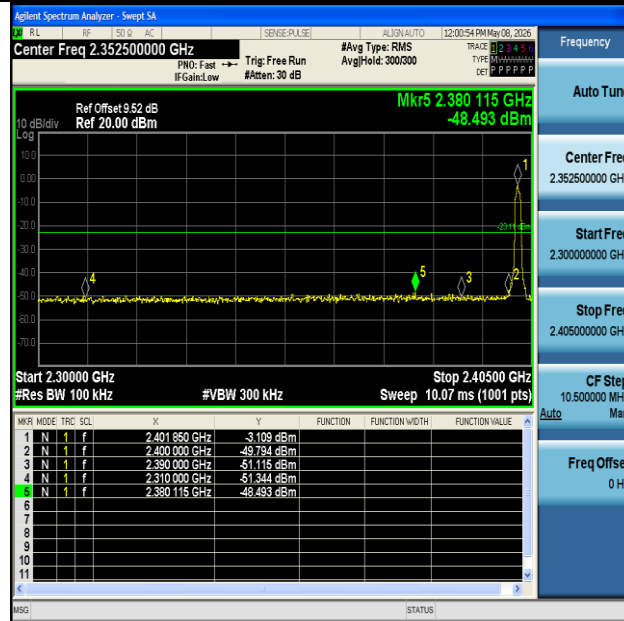


DH5-Ant1-Hop_2402-PASS

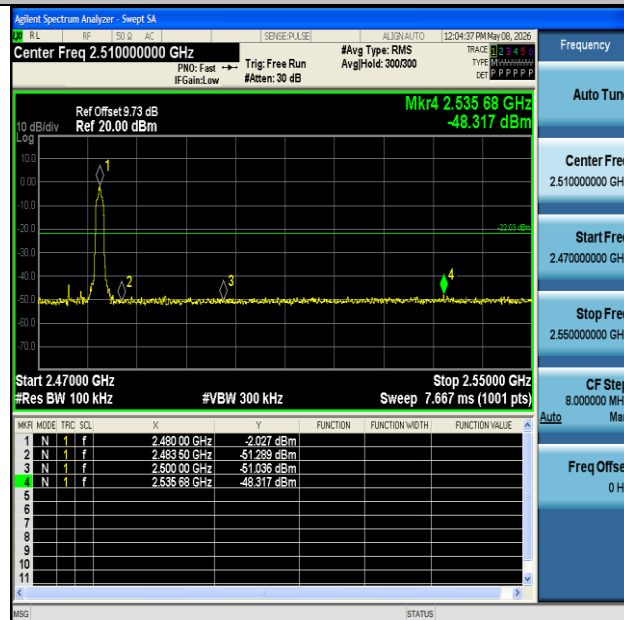


DH5-Ant1-Hop_2480-PASS



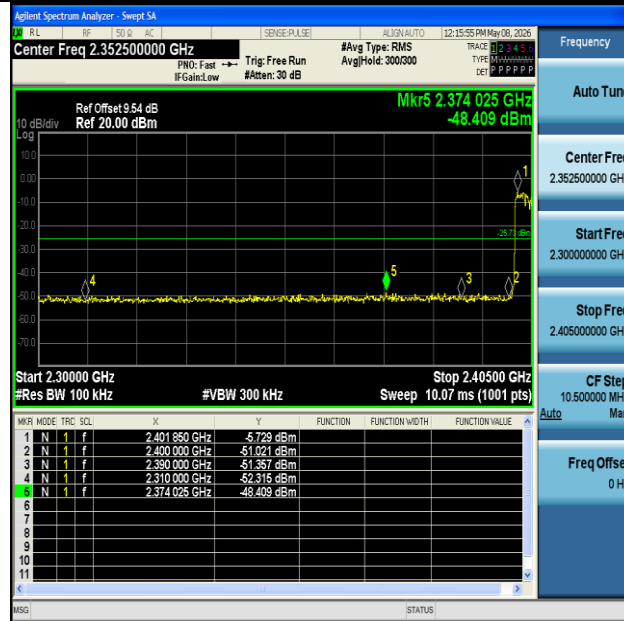


2DH5-Ant1-2402-PASS

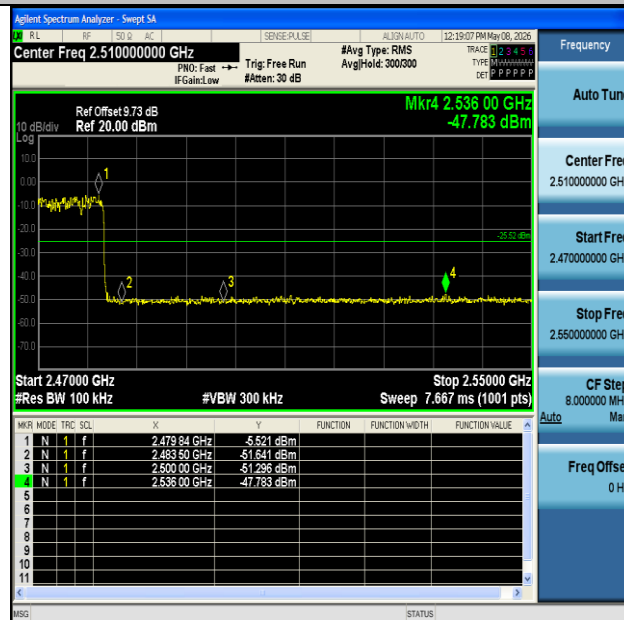


2DH5-Ant1-2480-PASS





2DH5-Ant1-Hop_2402-PASS



2DH5-Ant1-Hop_2480-PASS





Appendix H: Conducted Spurious Emission

Test Result

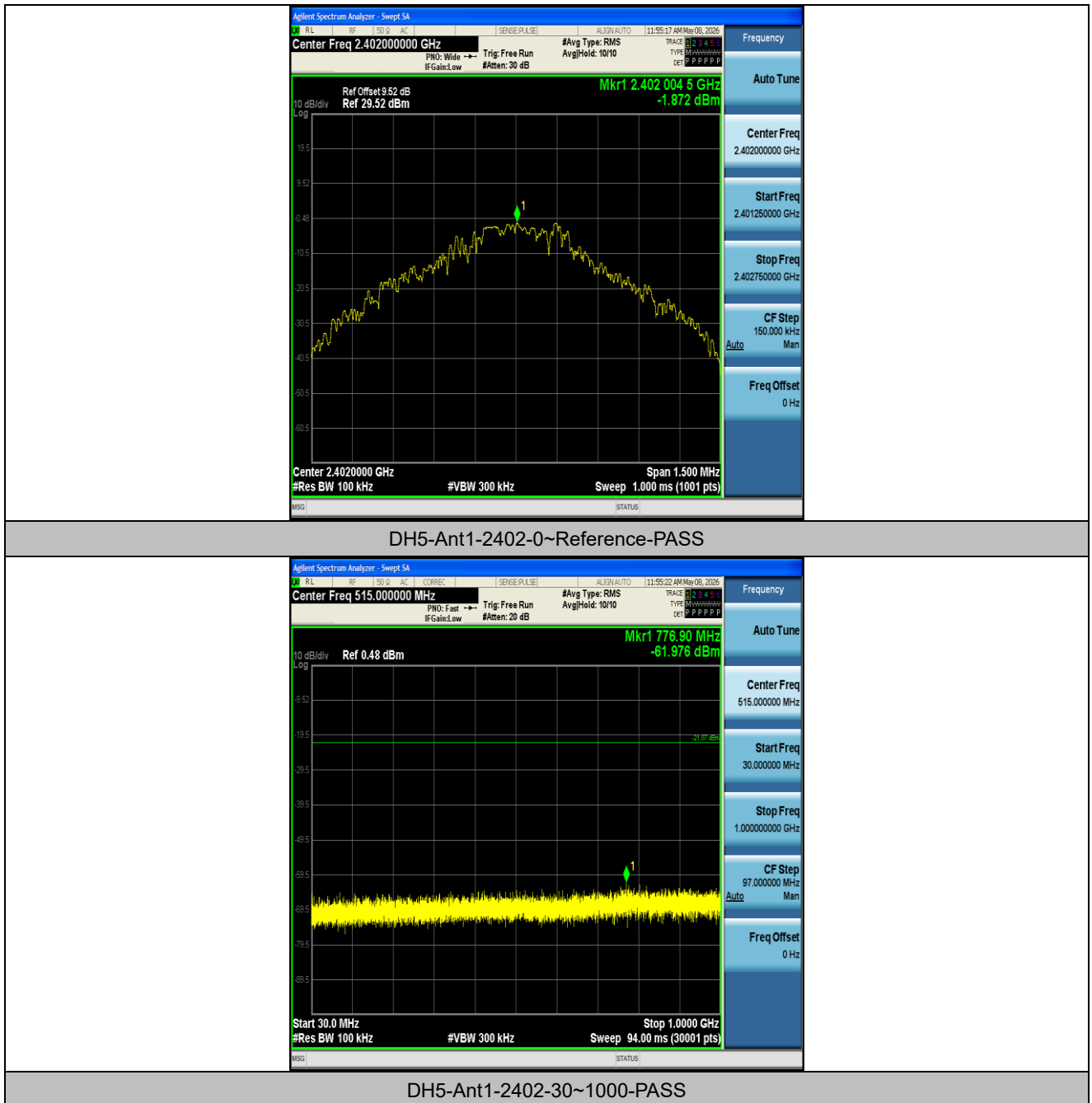
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-1.87	-1.87	---	PASS
DH5	Ant1	2402	30~1000	-1.87	-61.98	≤ -21.87	PASS
DH5	Ant1	2402	1000~26500	-1.87	-36.73	≤ -21.87	PASS
DH5	Ant1	2441	0~Reference	-1.64	-1.64	---	PASS
DH5	Ant1	2441	30~1000	-1.64	-61.12	≤ -21.64	PASS
DH5	Ant1	2441	1000~26500	-1.64	-36.89	≤ -21.64	PASS
DH5	Ant1	2480	0~Reference	-2.09	-2.09	---	PASS
DH5	Ant1	2480	30~1000	-2.09	-61.27	≤ -22.09	PASS
DH5	Ant1	2480	1000~26500	-2.09	-37.18	≤ -22.09	PASS
2DH5	Ant1	2402	0~Reference	-6.05	-6.05	---	PASS
2DH5	Ant1	2402	30~1000	-6.05	-61.93	≤ -26.05	PASS
2DH5	Ant1	2402	1000~26500	-6.05	-36.4	≤ -26.05	PASS
2DH5	Ant1	2441	0~Reference	-4.28	-4.28	---	PASS
2DH5	Ant1	2441	30~1000	-4.28	-61.99	≤ -24.28	PASS
2DH5	Ant1	2441	1000~26500	-4.28	-36.85	≤ -24.28	PASS
2DH5	Ant1	2480	0~Reference	-3.27	-3.27	---	PASS
2DH5	Ant1	2480	30~1000	-3.27	-61.7	≤ -23.27	PASS
2DH5	Ant1	2480	1000~26500	-3.27	-36.6	≤ -23.27	PASS

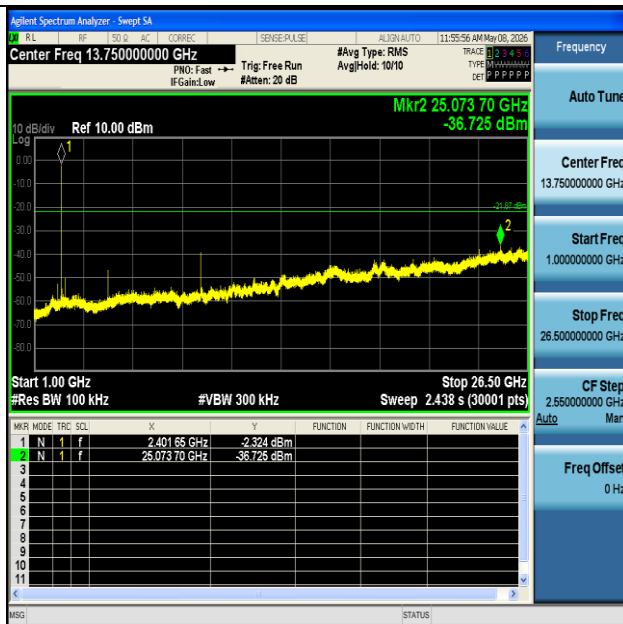
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.



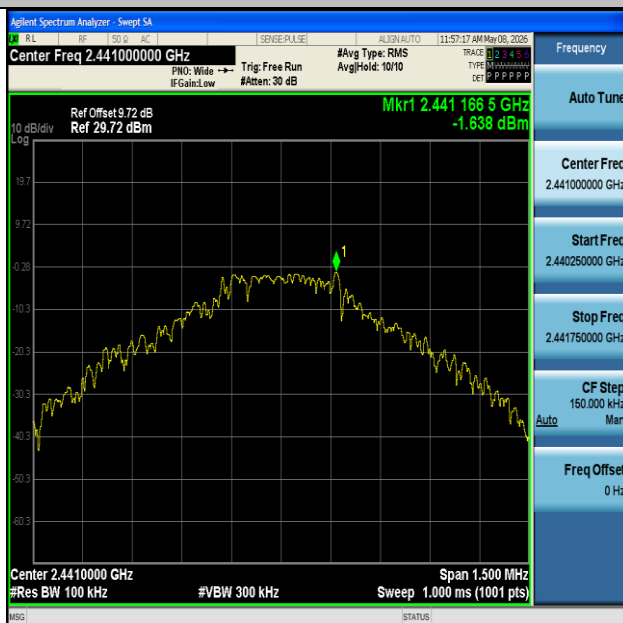


Test Graphs



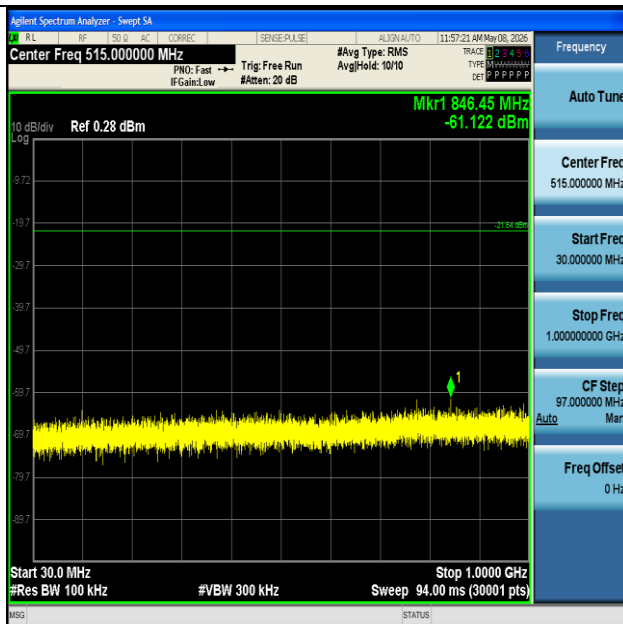


DH5-Ant1-2402-1000~26500-PASS

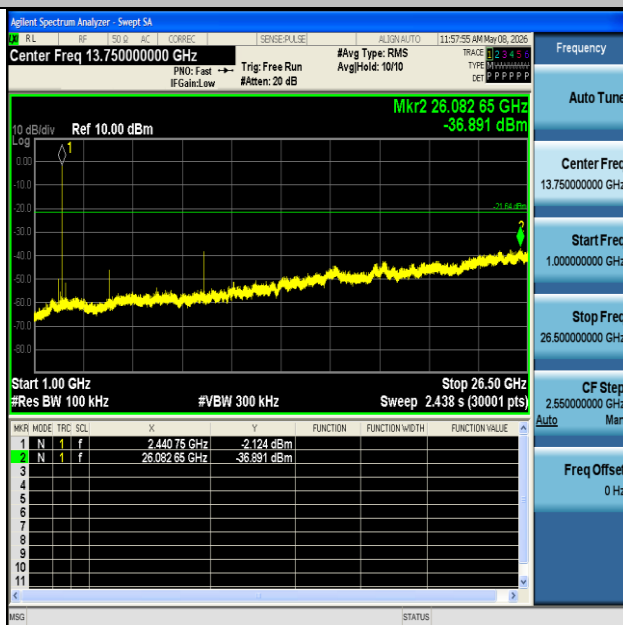


DH5-Ant1-2441-0~Reference-PASS





DH5-Ant1-2441-30~1000-PASS

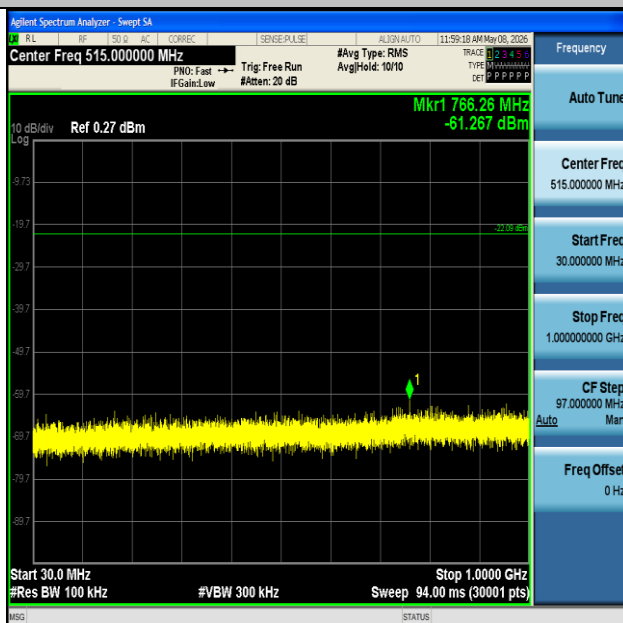


DH5-Ant1-2441-1000~26500-PASS





DH5-Ant1-2480-0~Reference-PASS

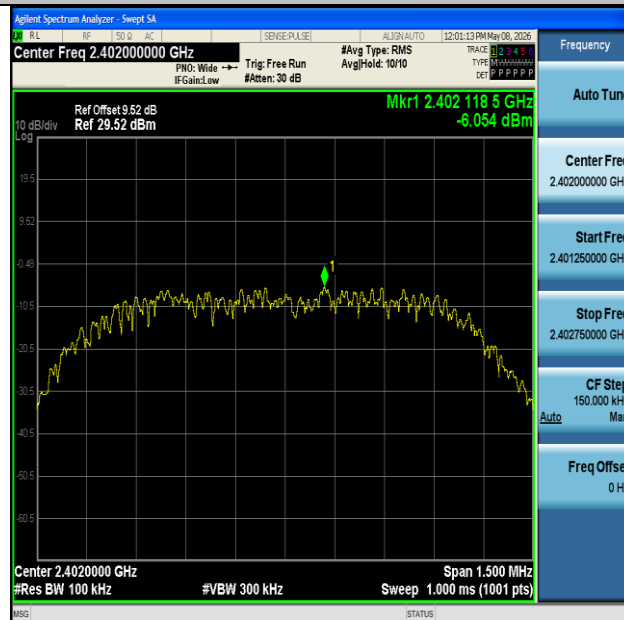


DH5-Ant1-2480-30~1000-PASS



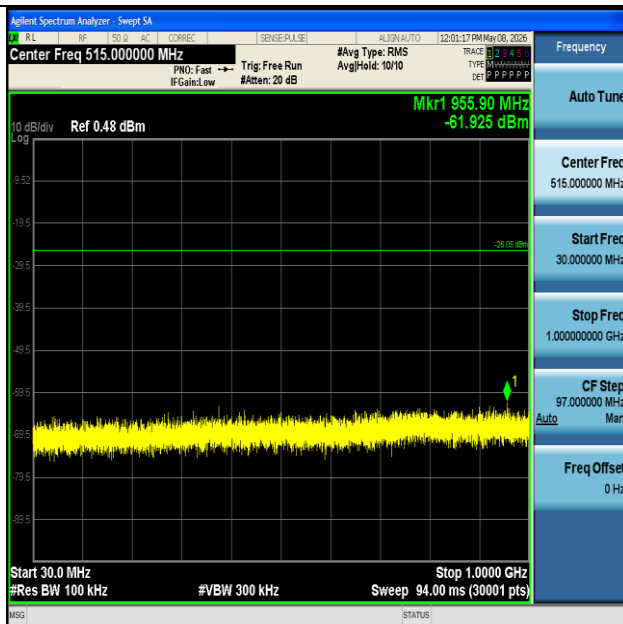


DH5-Ant1-2480-1000~26500-PASS

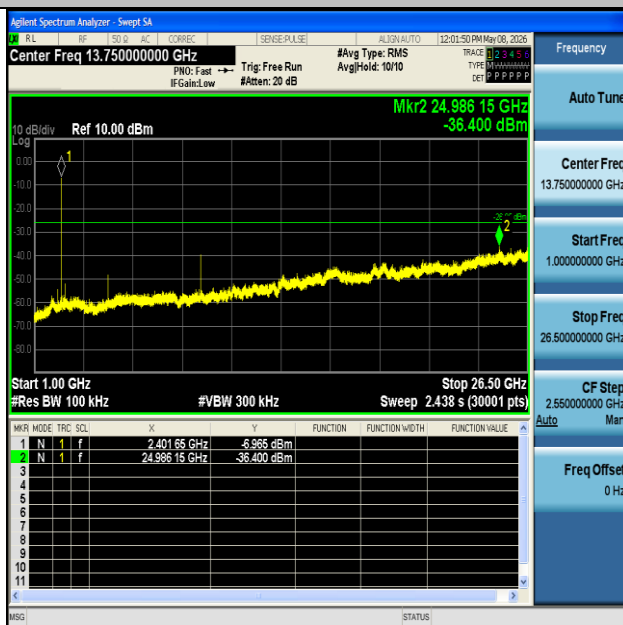


2DH5-Ant1-2402-0~Reference-PASS



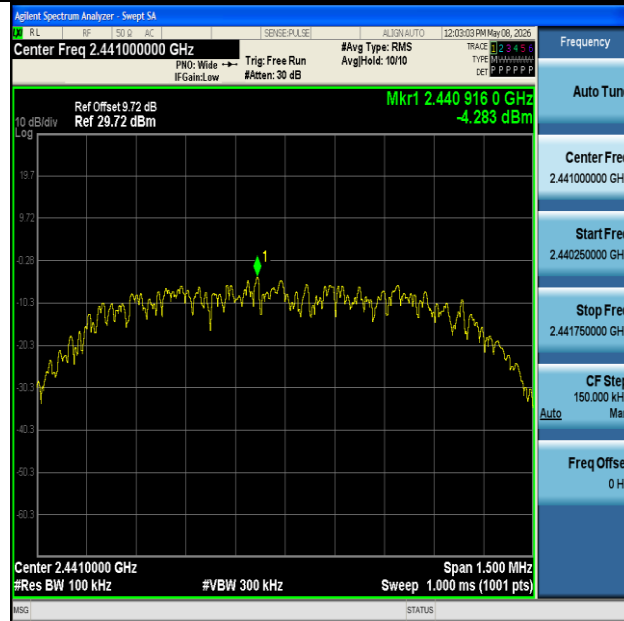


2DH5-Ant1-2402-30~1000-PASS

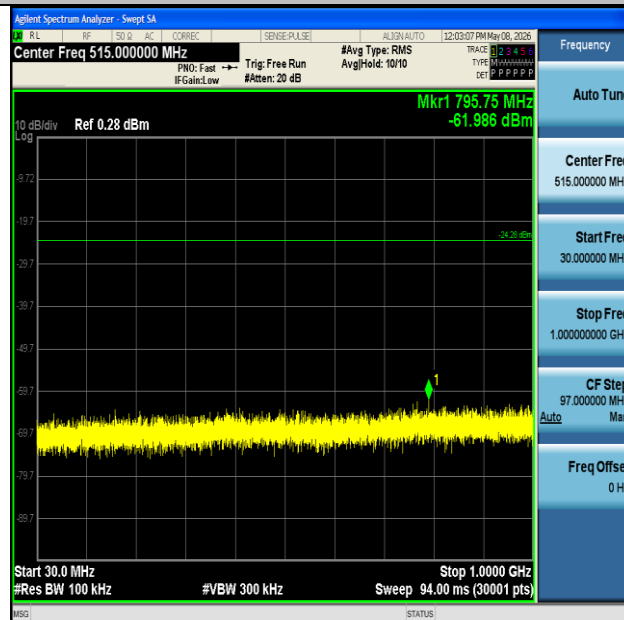


2DH5-Ant1-2402-1000~26500-PASS



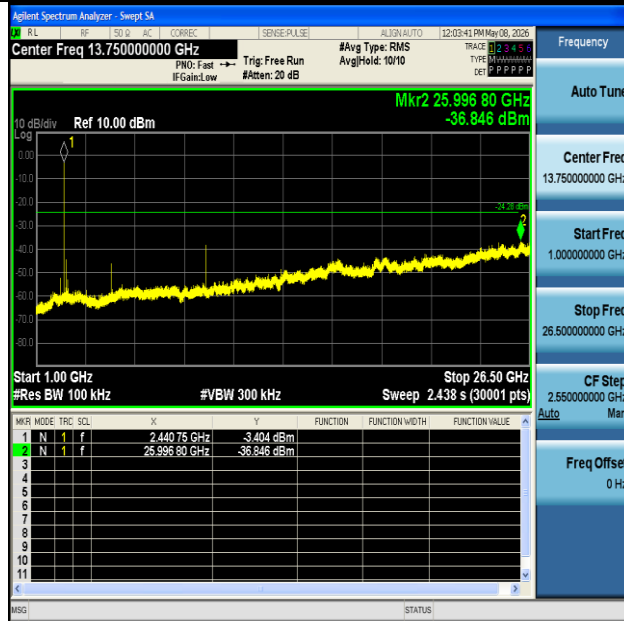


2DH5-Ant1-2441-0~Reference-PASS



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





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

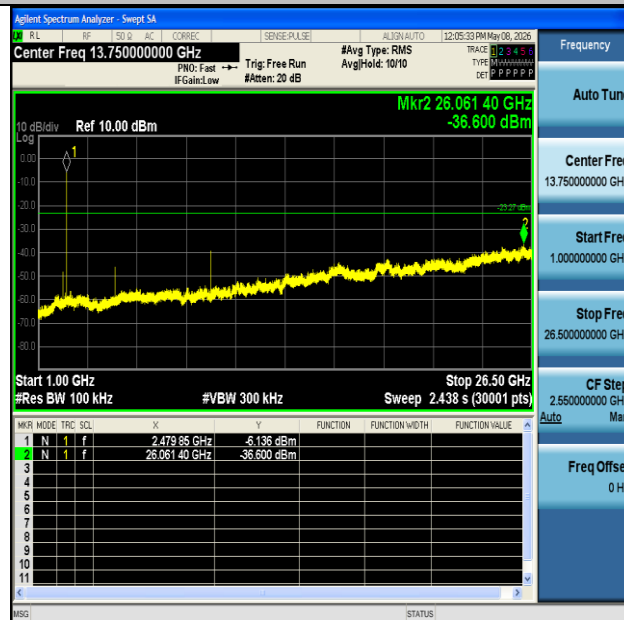


2DH5-Ant1-2480-0~Reference-PASS





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



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





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	3.75	77.07	1.13
DH5	Ant1	2441	2.89	3.75	77.07	1.13
DH5	Ant1	2480	2.88	3.75	76.80	1.15
2DH5	Ant1	2402	2.89	3.75	77.07	1.13
2DH5	Ant1	2441	2.89	3.75	77.07	1.13
2DH5	Ant1	2480	2.89	3.75	77.07	1.13

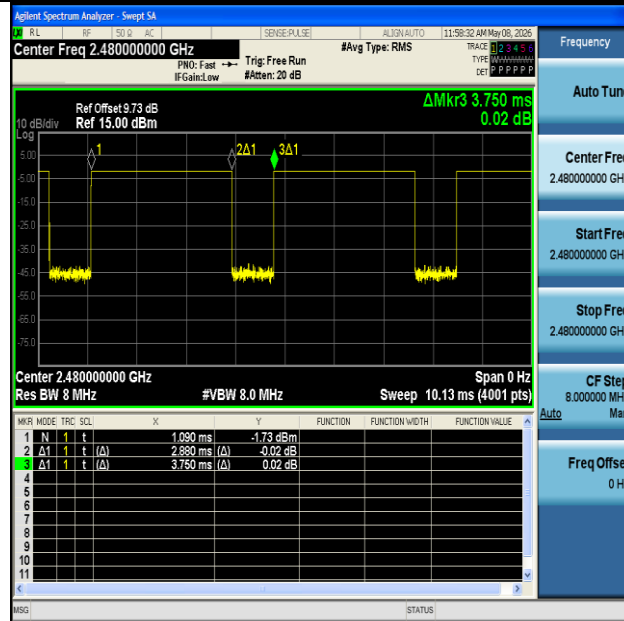
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



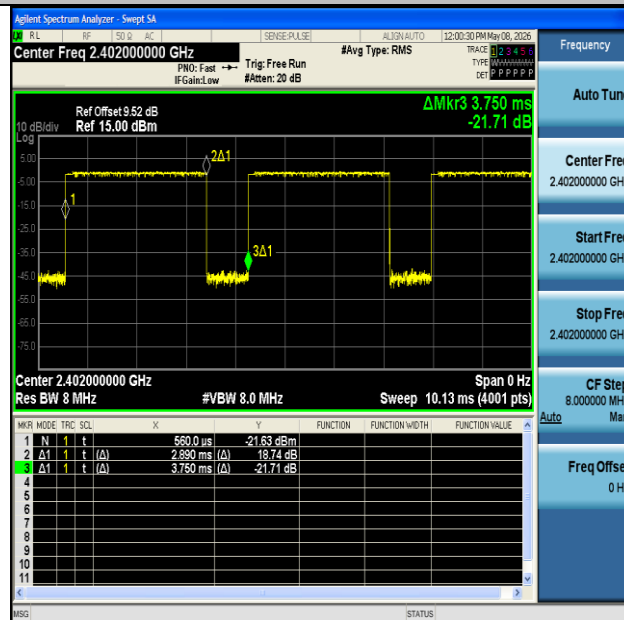


Test Graphs



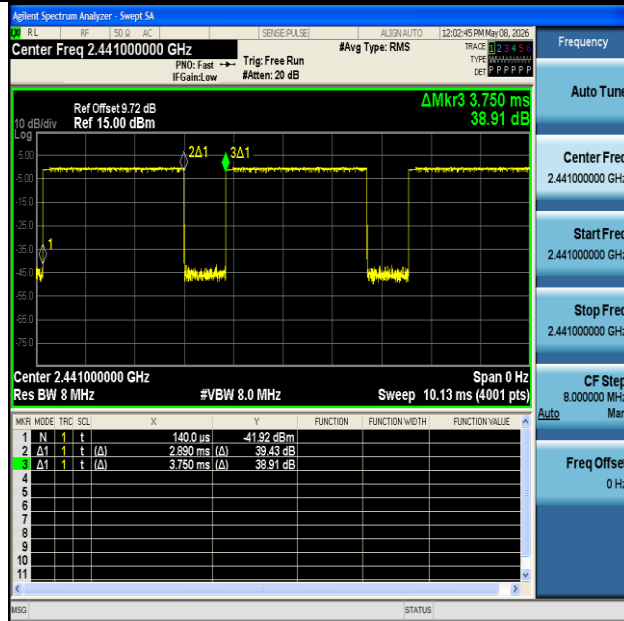


NTNV-DH5-Ant1-2480

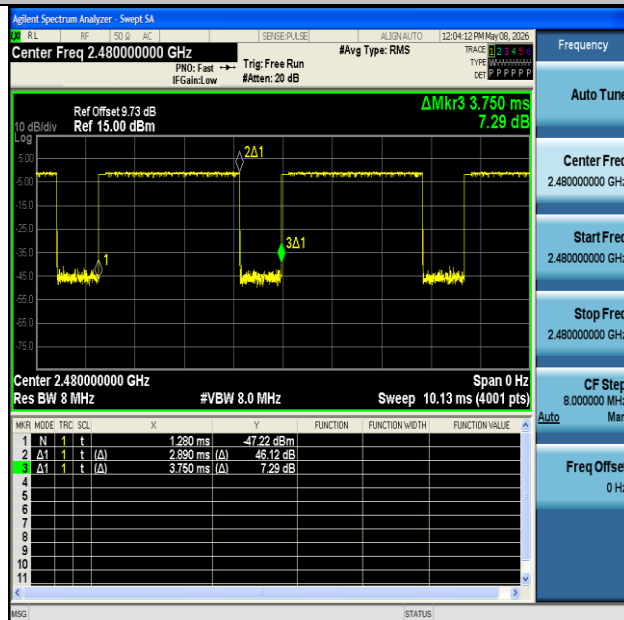


NTNV-2DH5-Ant1-2402





NTNV-2DH5-Ant1-2441



NTNV-2DH5-Ant1-2480

