



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

Product Name: Magic AI Glasses
Trade Mark: MAGIC MAN 2 WORLD TOUR
Test Model: Magic AI Glasses W
FCC ID: 2BTYX-GLASSESW

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	0.951	2401.526	2402.477	---	---
DH5	Ant1	2441	0.948	2440.529	2441.477	---	---
DH5	Ant1	2480	0.957	2479.523	2480.480	---	---
2DH5	Ant1	2402	1.293	2401.355	2402.648	---	---
2DH5	Ant1	2441	1.320	2440.331	2441.651	---	---
2DH5	Ant1	2480	1.293	2479.352	2480.645	---	---
3DH5	Ant1	2402	1.302	2401.334	2402.636	---	---
3DH5	Ant1	2441	1.302	2440.340	2441.642	---	---
3DH5	Ant1	2480	1.308	2479.340	2480.648	---	---

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 B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.86567	2401.5569	2402.4226	---	---
DH5	Ant1	2441	0.86379	2440.5557	2441.4195	---	---
DH5	Ant1	2480	0.85915	2479.5592	2480.4184	---	---
2DH5	Ant1	2402	1.2038	2401.3930	2402.5968	---	---
2DH5	Ant1	2441	1.2041	2440.3903	2441.5944	---	---
2DH5	Ant1	2480	1.2032	2479.3933	2480.5965	---	---
3DH5	Ant1	2402	1.1995	2401.3893	2402.5888	---	---
3DH5	Ant1	2441	1.1935	2440.3916	2441.5851	---	---
3DH5	Ant1	2480	1.1902	2479.3965	2480.5867	---	---

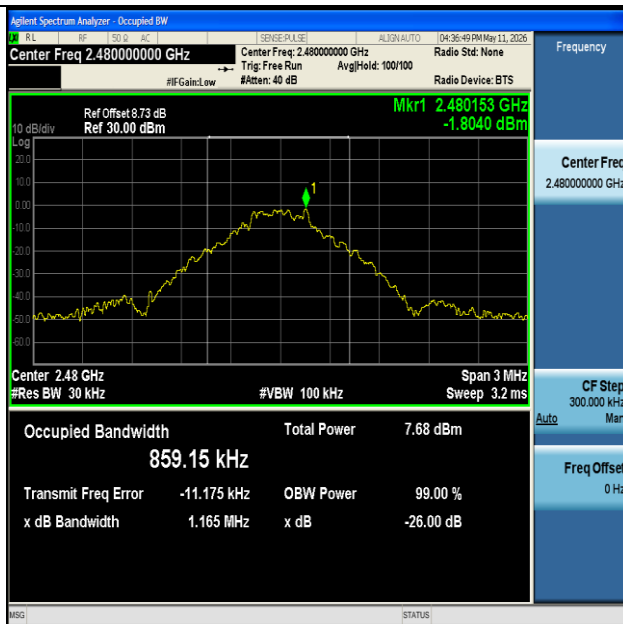
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



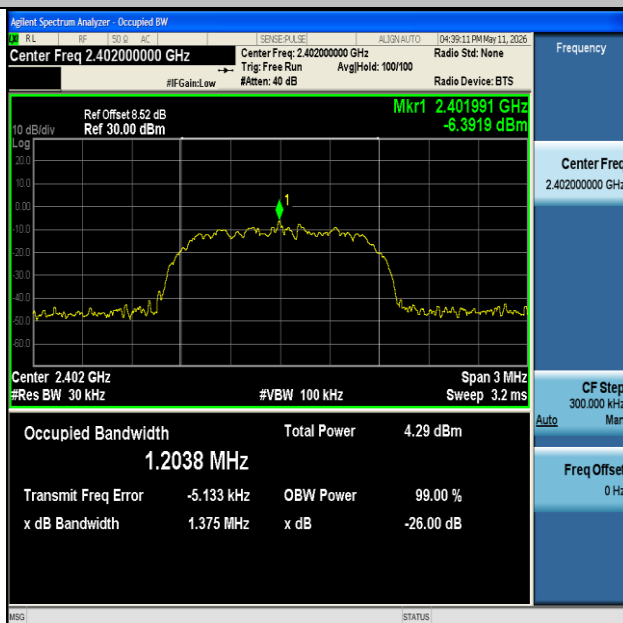


Test Graphs



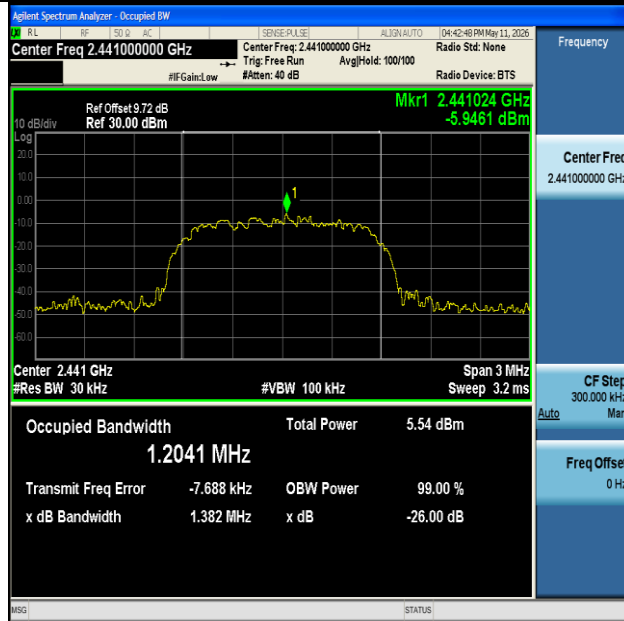


DH5-Ant1-2480

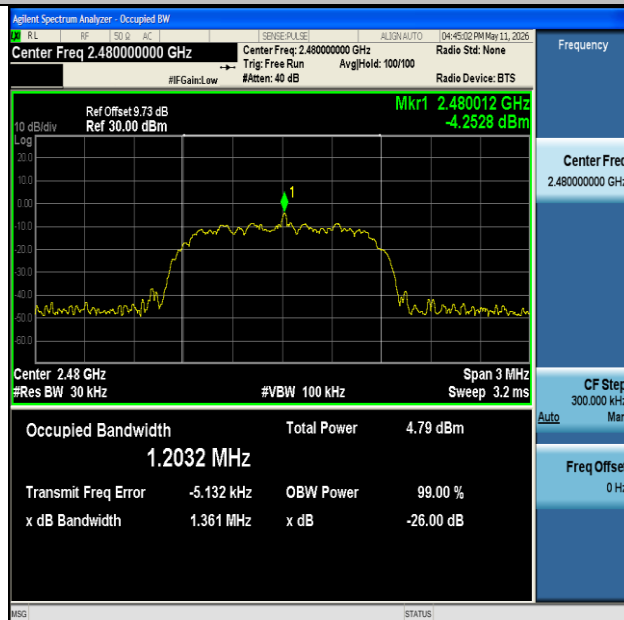


2DH5-Ant1-2402



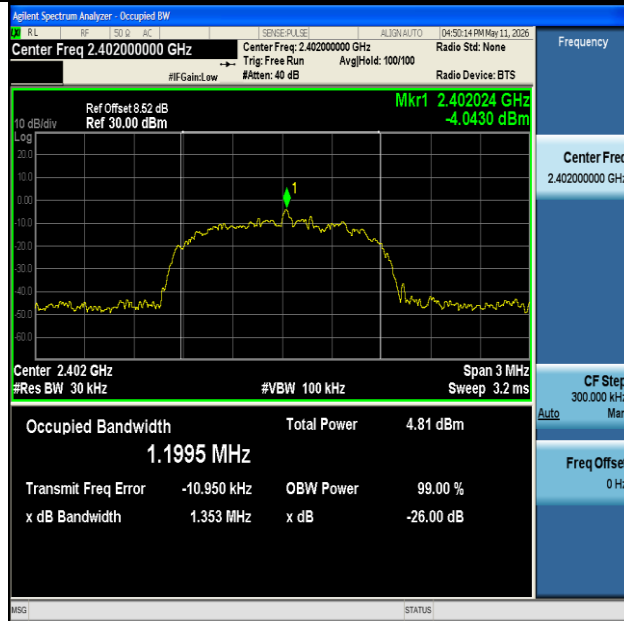


2DH5-Ant1-2441



2DH5-Ant1-2480



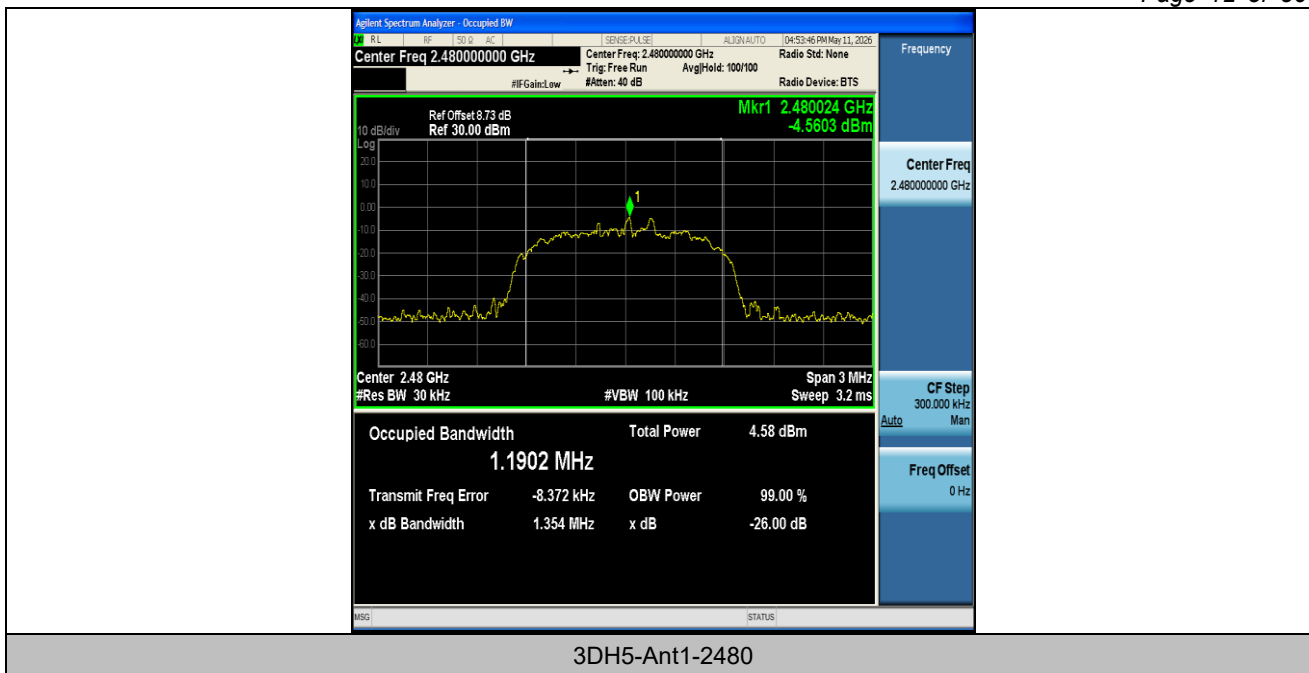


3DH5-Ant1-2402



3DH5-Ant1-2441







Appendix C: Maximum peak conducted output power

Test Result

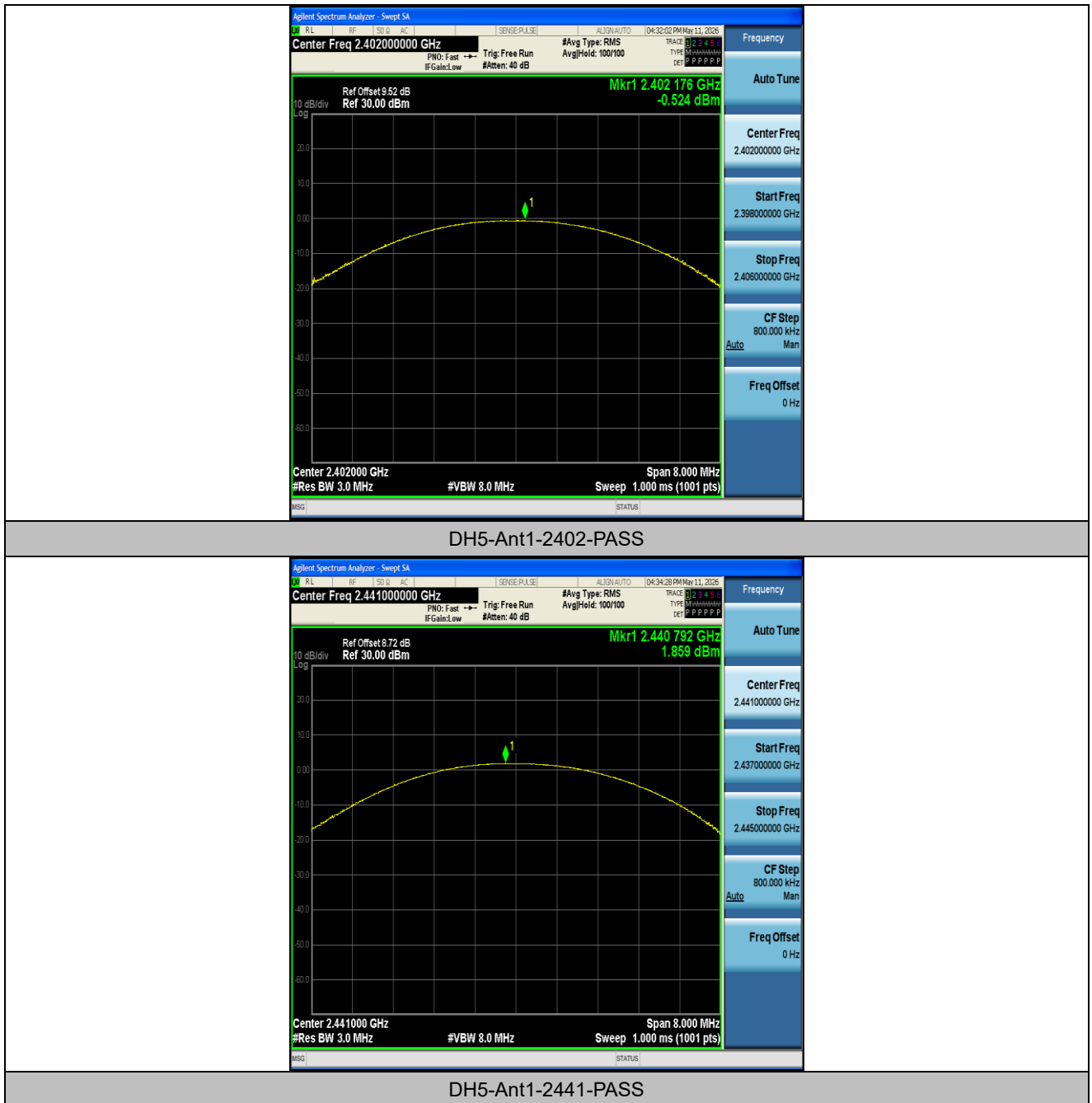
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	-0.52	≤30	PASS
DH5	Ant1	2441	1.86	≤20.97	PASS
DH5	Ant1	2480	0.98	≤20.97	PASS
2DH5	Ant1	2402	0.14	≤30	PASS
2DH5	Ant1	2441	1.57	≤20.97	PASS
2DH5	Ant1	2480	0.79	≤20.97	PASS
3DH5	Ant1	2402	0.64	≤30	PASS
3DH5	Ant1	2441	1.09	≤20.97	PASS
3DH5	Ant1	2480	0.16	≤20.97	PASS

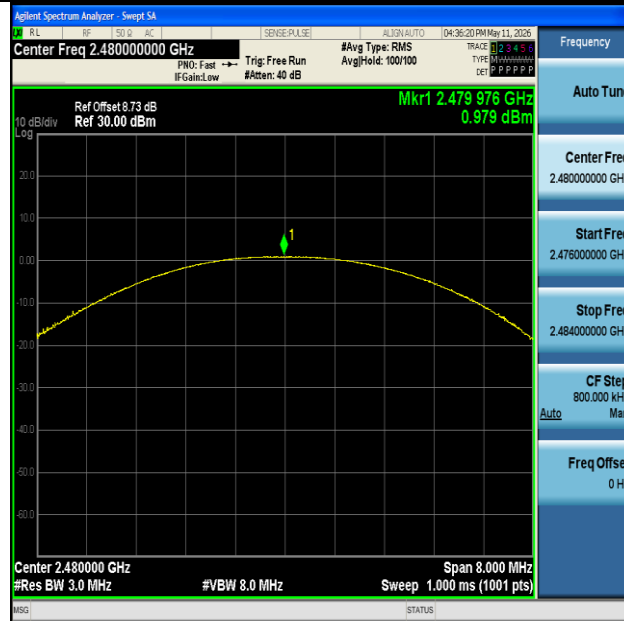
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



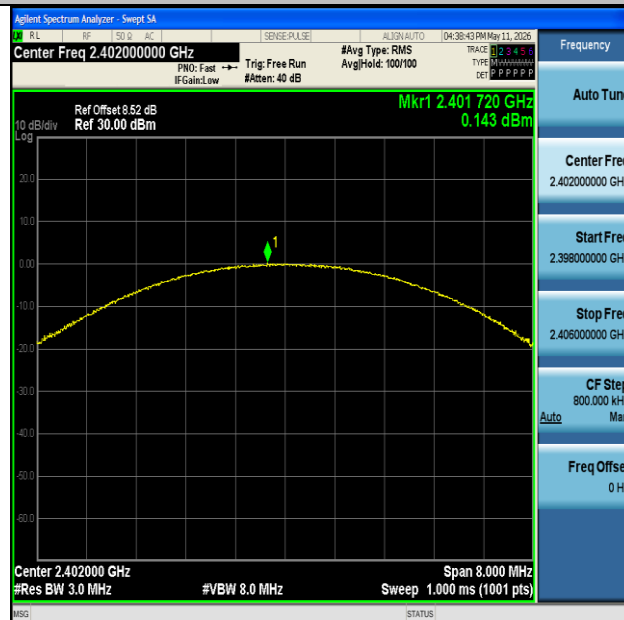


Test Graphs



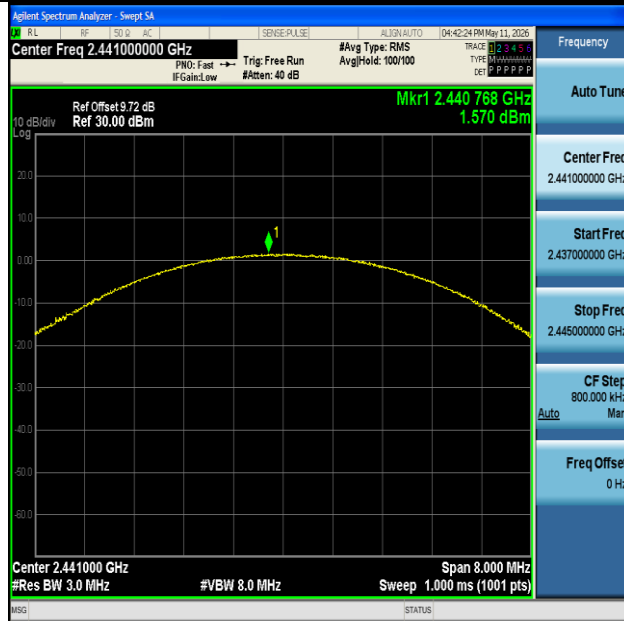


DH5-Ant1-2480-PASS



2DH5-Ant1-2402-PASS



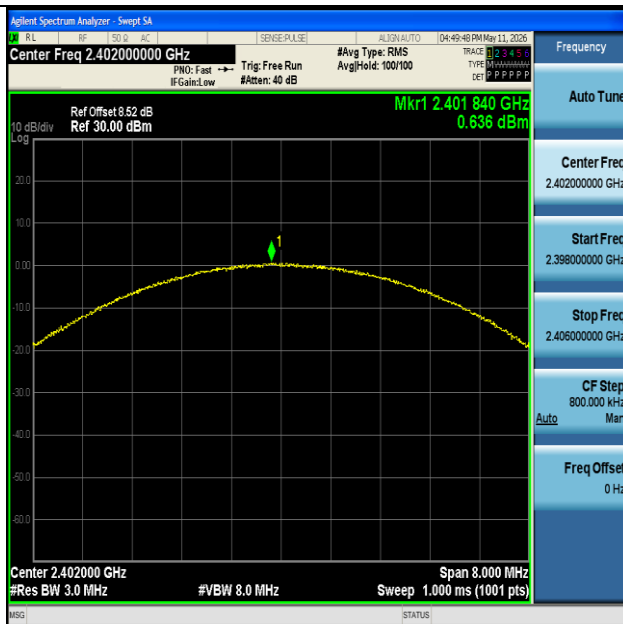


2DH5-Ant1-2441-PASS

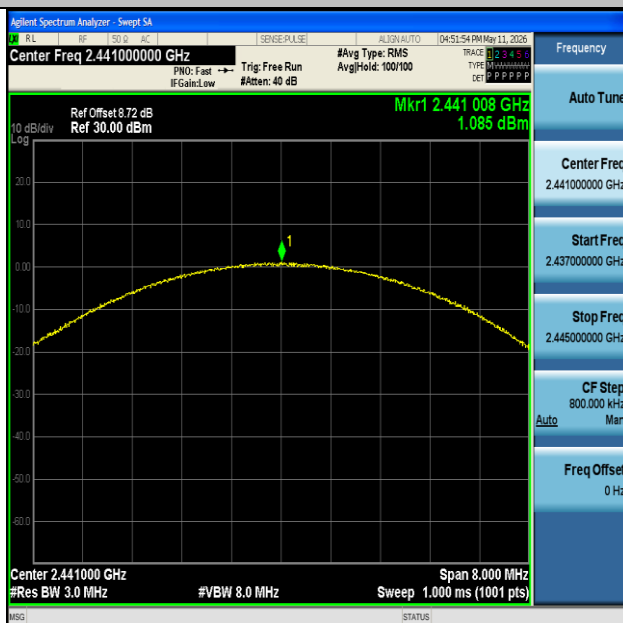


2DH5-Ant1-2480-PASS



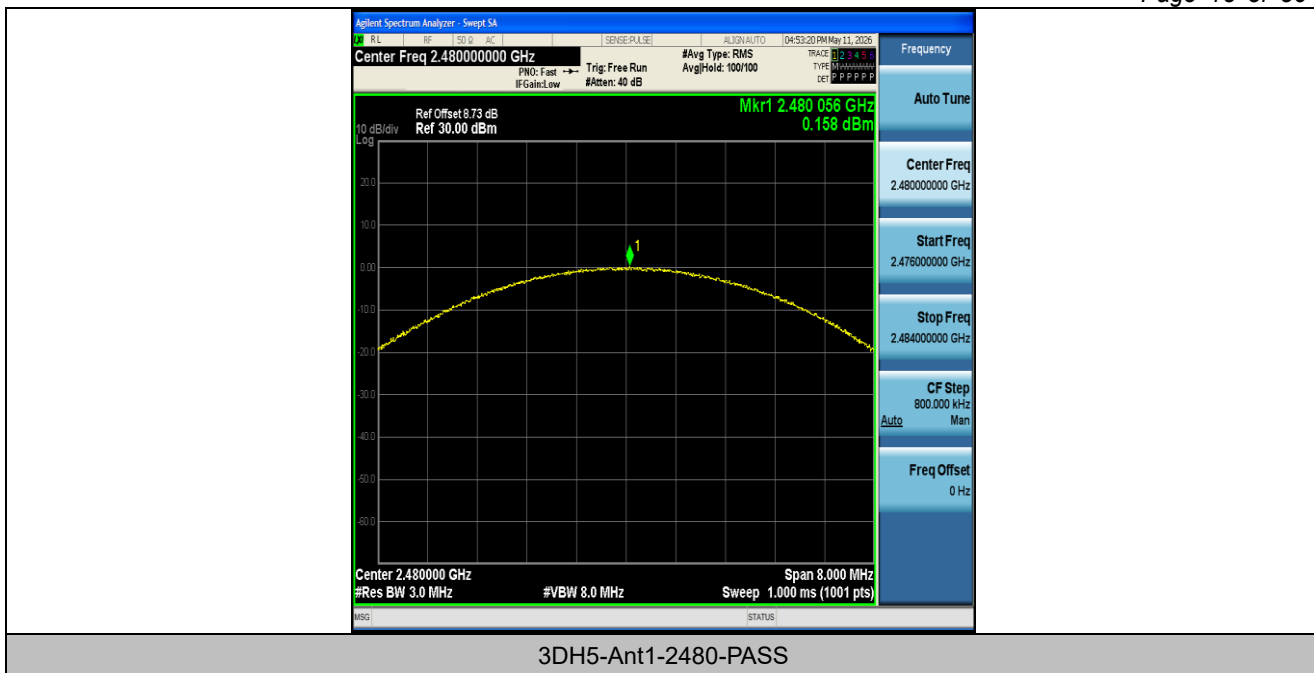


3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS







Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.01	≥ 0.957	PASS
2DH5	Ant1	Hop	0.982	≥ 0.880	PASS
3DH5	Ant1	Hop	1.022	≥ 0.872	PASS

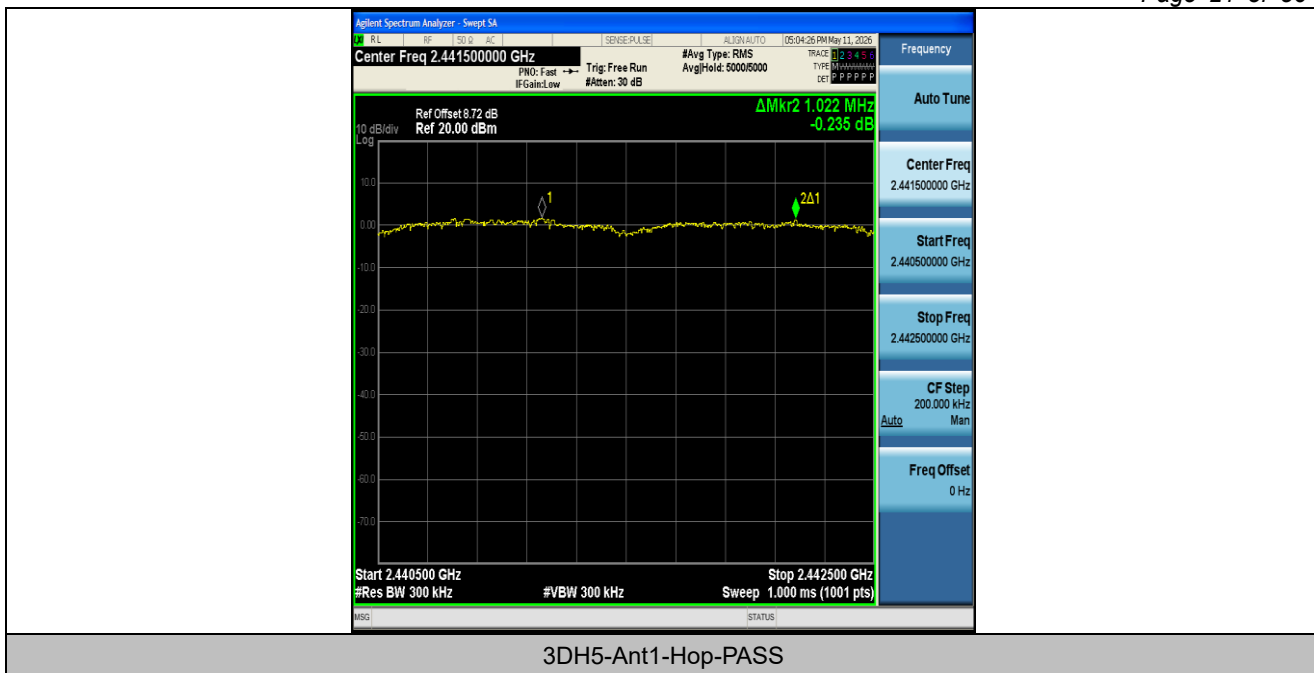
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs







Appendix E: Time of occupancy

Test Result

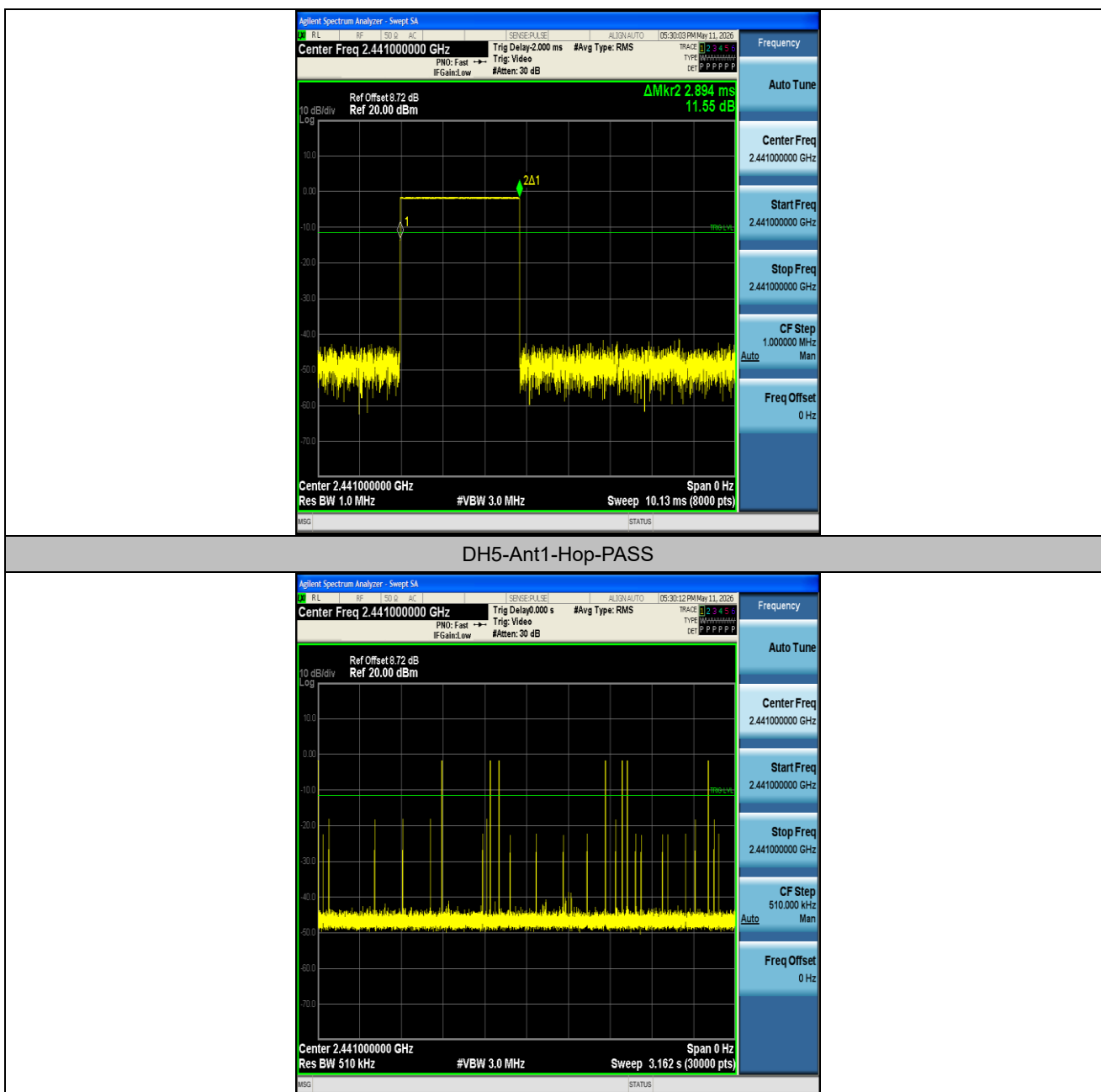
Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.894	80	0.232	≤0.4	PASS
2DH5	Ant1	Hop	2.883	130	0.375	≤0.4	PASS
3DH5	Ant1	Hop	2.882	110	0.317	≤0.4	PASS

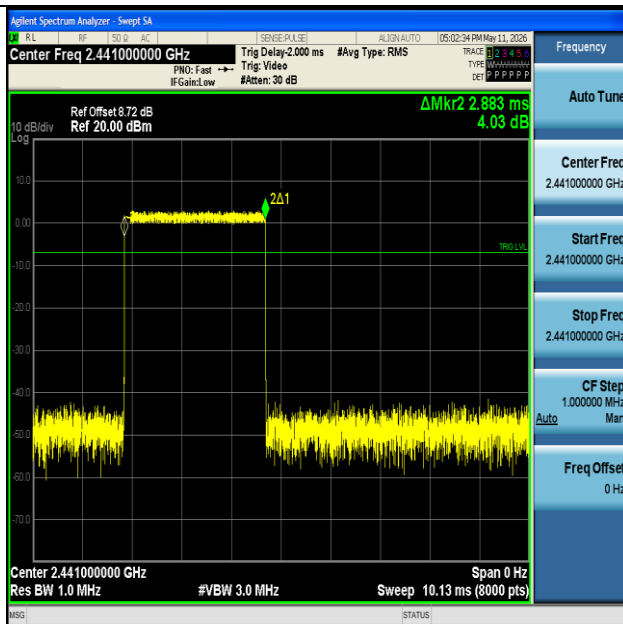
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



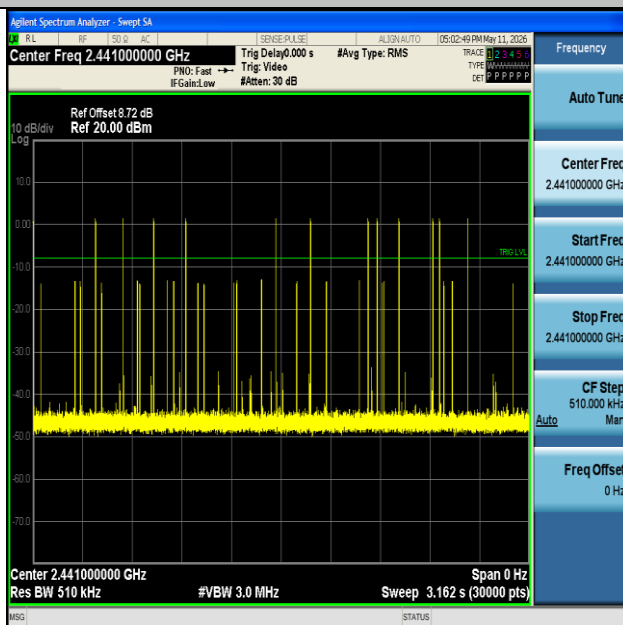


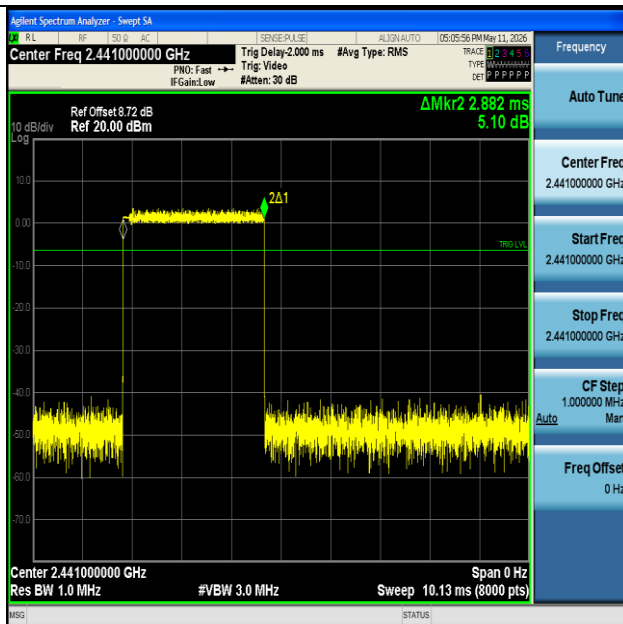
Test Graphs



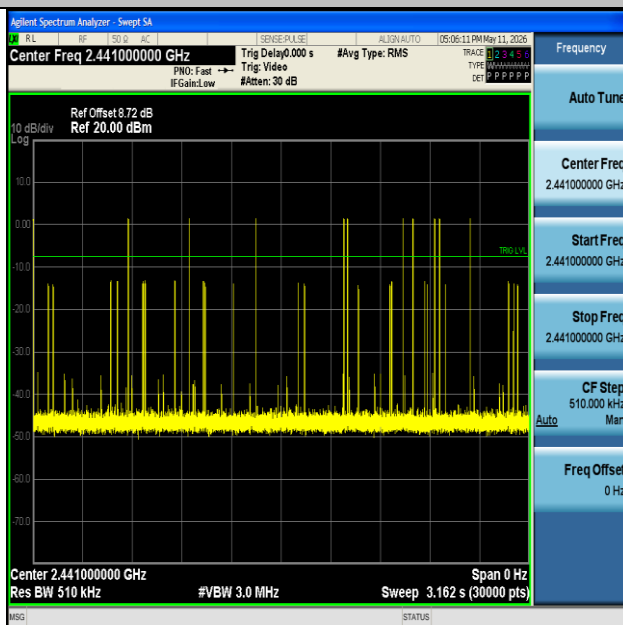


2DH5-Ant1-Hop-PASS





3DH5-Ant1-Hop-PASS





Appendix F: Number of hopping channels

Test Result

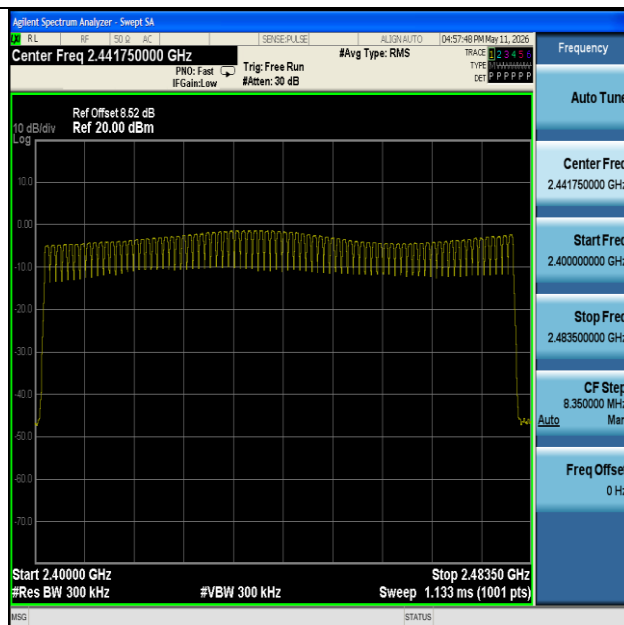
Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

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

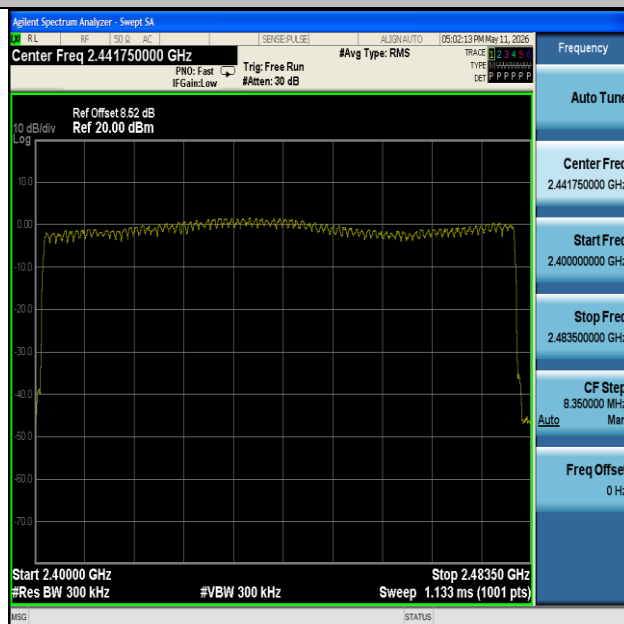




Test Graphs

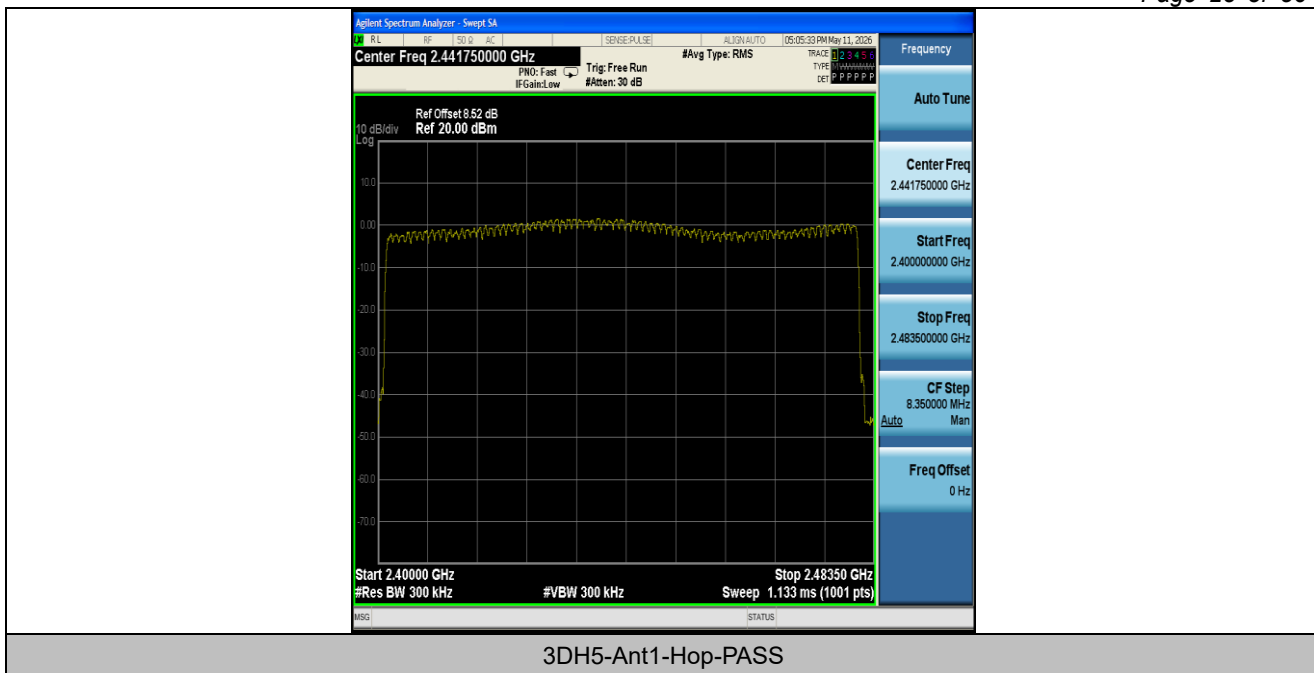


DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS







Appendix G: Band edge measurements

Test Result

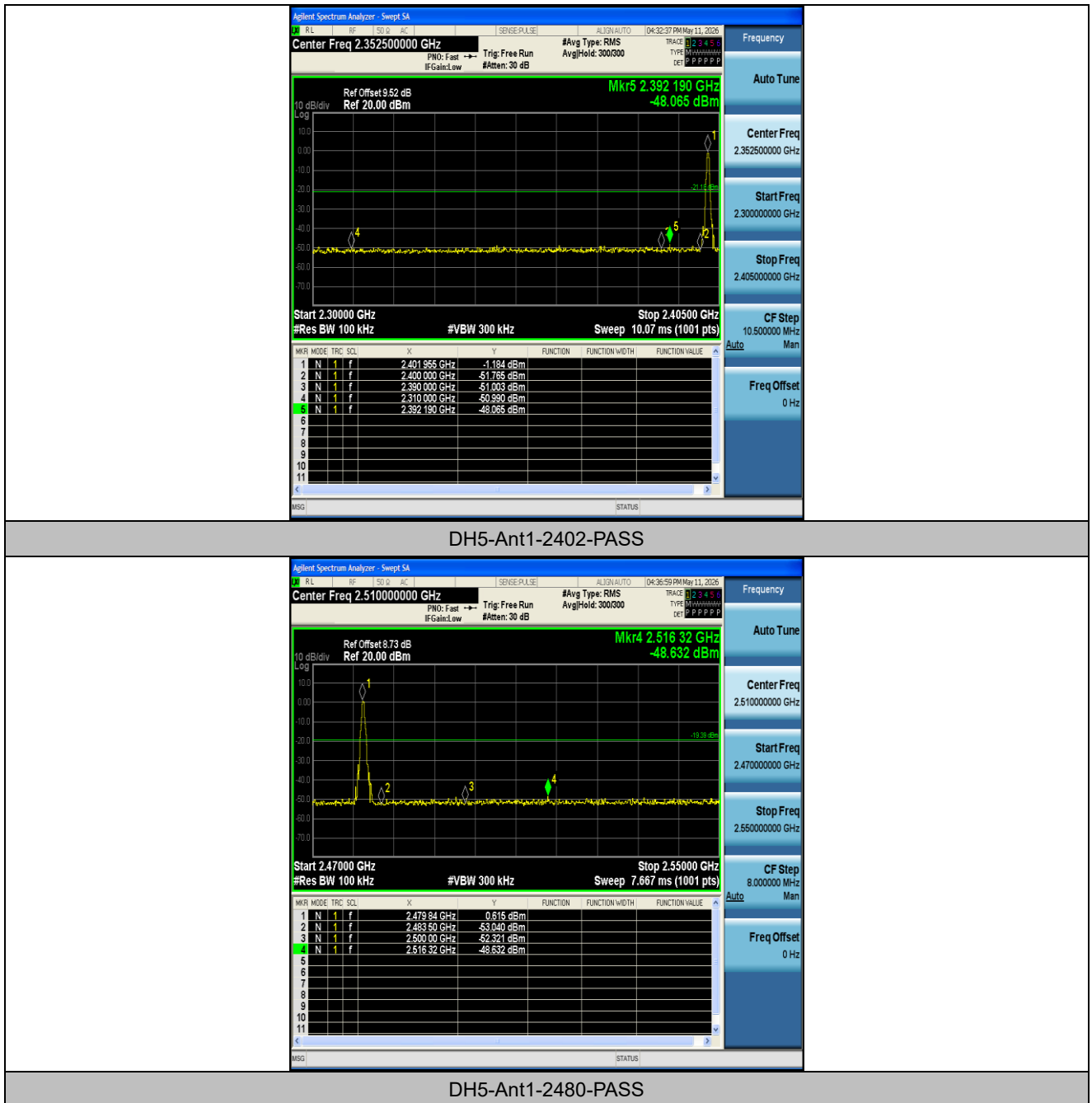
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.18	-48.07	≤-21.18	PASS
DH5	Ant1	High	2480	0.62	-48.63	≤-19.39	PASS
DH5	Ant1	Low	Hop_2402	-5.06	-49.06	≤-25.06	PASS
DH5	Ant1	High	Hop_2480	-3.51	-49.06	≤-23.51	PASS
2DH5	Ant1	Low	2402	-3.09	-49.61	≤-23.09	PASS
2DH5	Ant1	High	2480	-1.72	-47.87	≤-21.72	PASS
2DH5	Ant1	Low	Hop_2402	-5.07	-49.95	≤-25.07	PASS
2DH5	Ant1	High	Hop_2480	-3.25	-49.16	≤-23.25	PASS
3DH5	Ant1	Low	2402	-2.22	-50.04	≤-22.22	PASS
3DH5	Ant1	High	2480	-2.42	-49.1	≤-22.42	PASS
3DH5	Ant1	Low	Hop_2402	-2.72	-49.56	≤-22.72	PASS
3DH5	Ant1	High	Hop_2480	-1.36	-48.68	≤-21.36	PASS

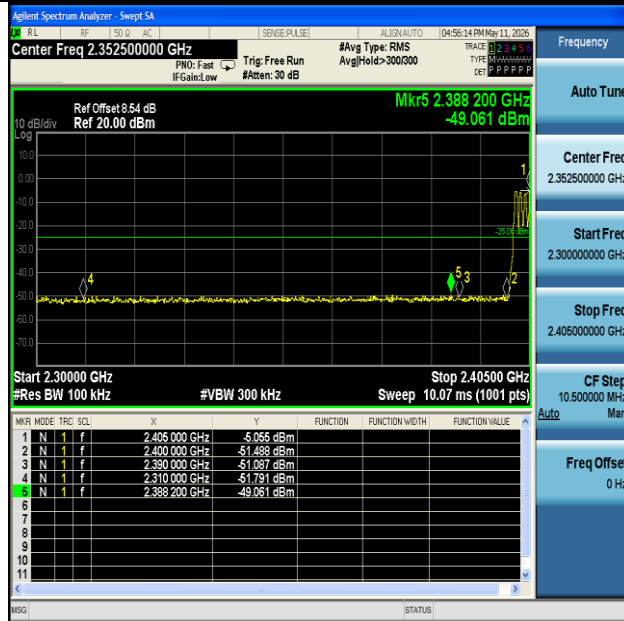
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



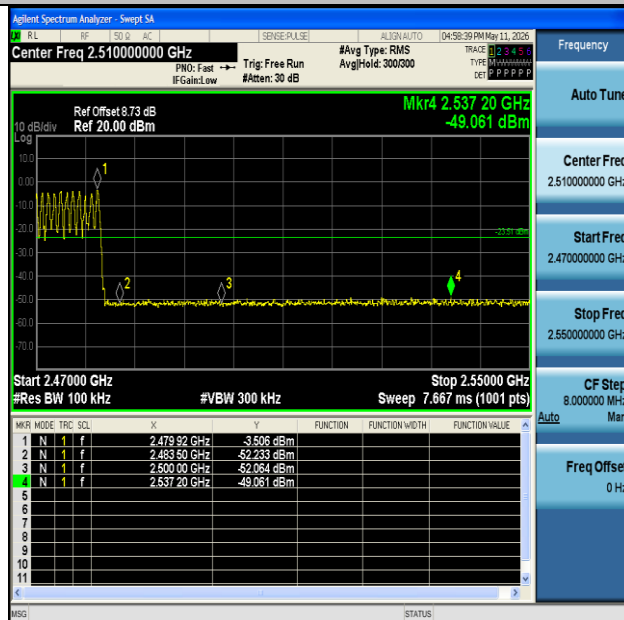


Test Graphs



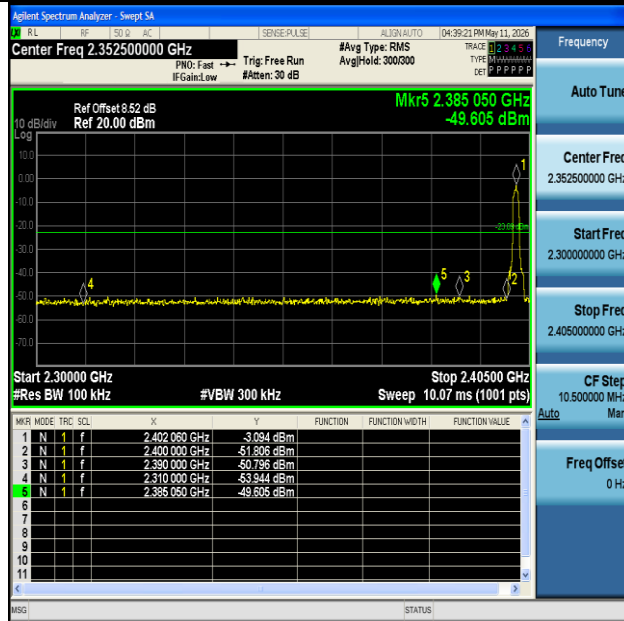


DH5-Ant1-Hop_2402-PASS

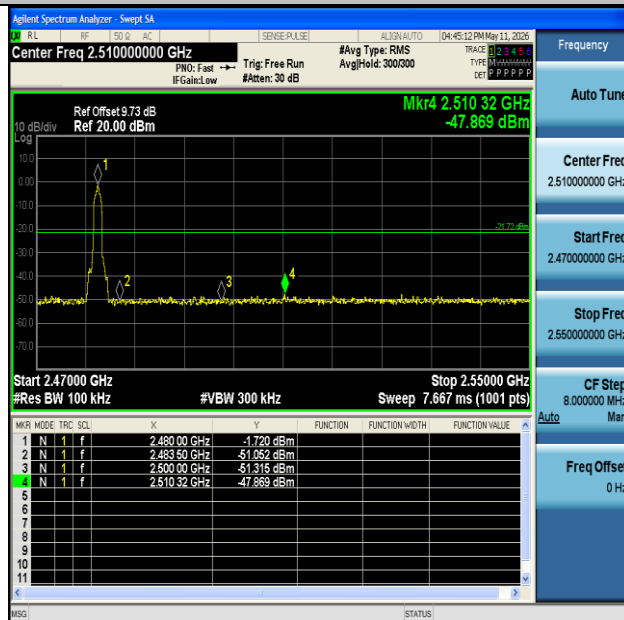


DH5-Ant1-Hop_2480-PASS



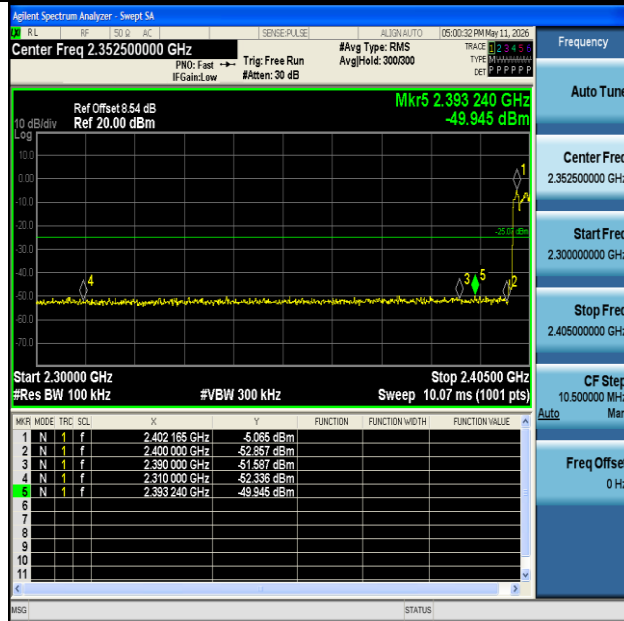


2DH5-Ant1-2402-PASS

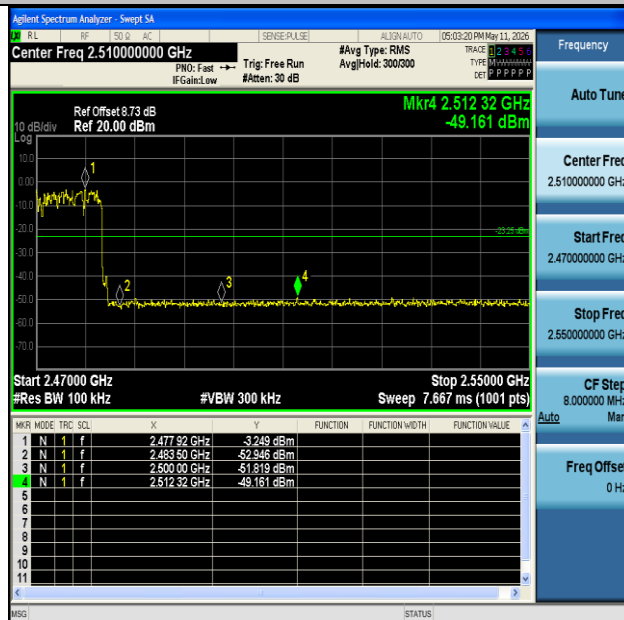


2DH5-Ant1-2480-PASS



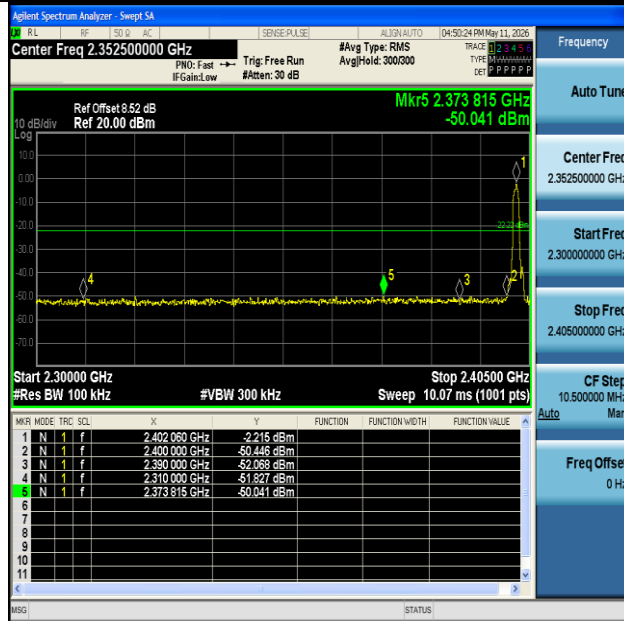


2DH5-Ant1-Hop_2402-PASS

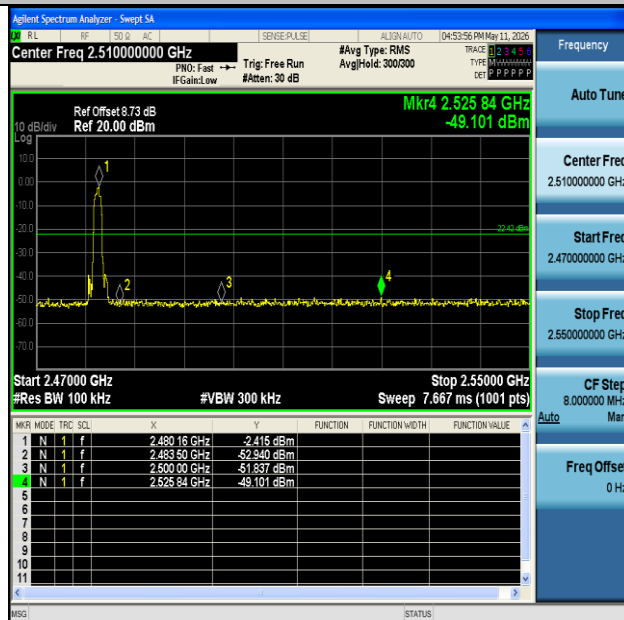


2DH5-Ant1-Hop_2480-PASS



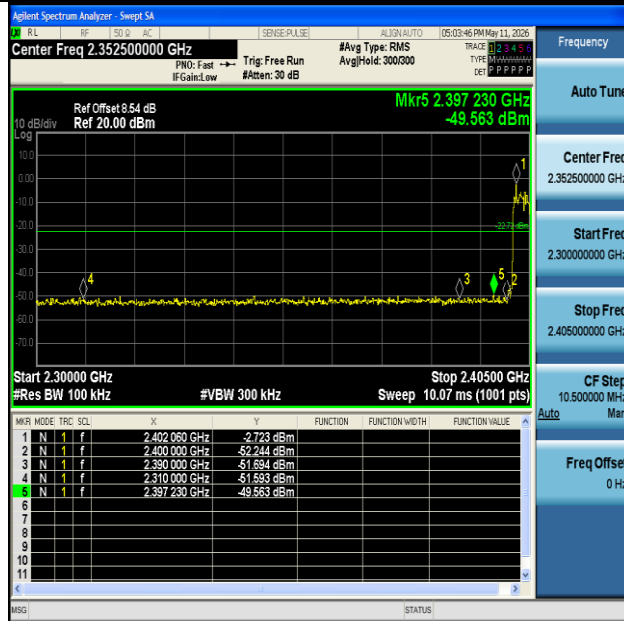


3DH5-Ant1-2402-PASS

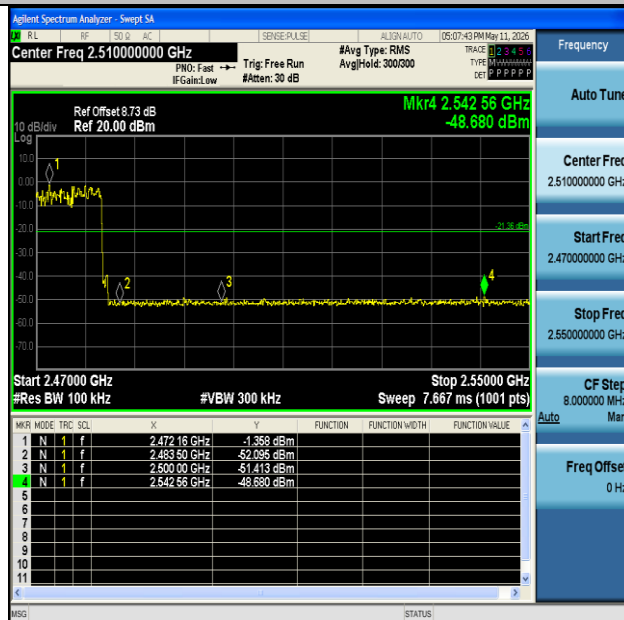


3DH5-Ant1-2480-PASS





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	-1.92	-1.92	---	PASS
DH5	Ant1	2402	30~1000	-1.92	-62.29	≤-21.92	PASS
DH5	Ant1	2402	1000~26500	-1.92	-36.82	≤-21.92	PASS
DH5	Ant1	2441	0~Reference	1.45	1.45	---	PASS
DH5	Ant1	2441	30~1000	1.45	-62.25	≤-18.55	PASS
DH5	Ant1	2441	1000~26500	1.45	-38.31	≤-18.55	PASS
DH5	Ant1	2480	0~Reference	0.63	0.63	---	PASS
DH5	Ant1	2480	30~1000	0.63	-63.85	≤-19.37	PASS
DH5	Ant1	2480	1000~26500	0.63	-38.43	≤-19.37	PASS
2DH5	Ant1	2402	0~Reference	-2.87	-2.87	---	PASS
2DH5	Ant1	2402	30~1000	-2.87	-63.31	≤-22.87	PASS
2DH5	Ant1	2402	1000~26500	-2.87	-38.22	≤-22.87	PASS
2DH5	Ant1	2441	0~Reference	-0.84	-0.84	---	PASS
2DH5	Ant1	2441	30~1000	-0.84	-62.71	≤-20.84	PASS
2DH5	Ant1	2441	1000~26500	-0.84	-36.91	≤-20.84	PASS
2DH5	Ant1	2480	0~Reference	-4.74	-4.74	---	PASS
2DH5	Ant1	2480	30~1000	-4.74	-61.05	≤-24.74	PASS
2DH5	Ant1	2480	1000~26500	-4.74	-36.83	≤-24.74	PASS
3DH5	Ant1	2402	0~Reference	-4.37	-4.37	---	PASS
3DH5	Ant1	2402	30~1000	-4.37	-61.75	≤-24.37	PASS
3DH5	Ant1	2402	1000~26500	-4.37	-38.18	≤-24.37	PASS
3DH5	Ant1	2441	0~Reference	-2.23	-2.23	---	PASS
3DH5	Ant1	2441	30~1000	-2.23	-63.21	≤-22.23	PASS
3DH5	Ant1	2441	1000~26500	-2.23	-38.25	≤-22.23	PASS
3DH5	Ant1	2480	0~Reference	-2.99	-2.99	---	PASS
3DH5	Ant1	2480	30~1000	-2.99	-63.18	≤-22.99	PASS
3DH5	Ant1	2480	1000~26500	-2.99	-38.01	≤-22.99	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.

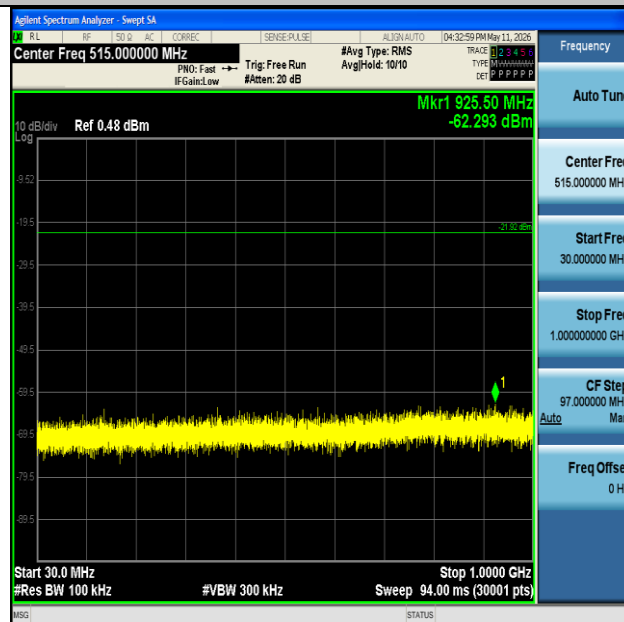




Test Graphs

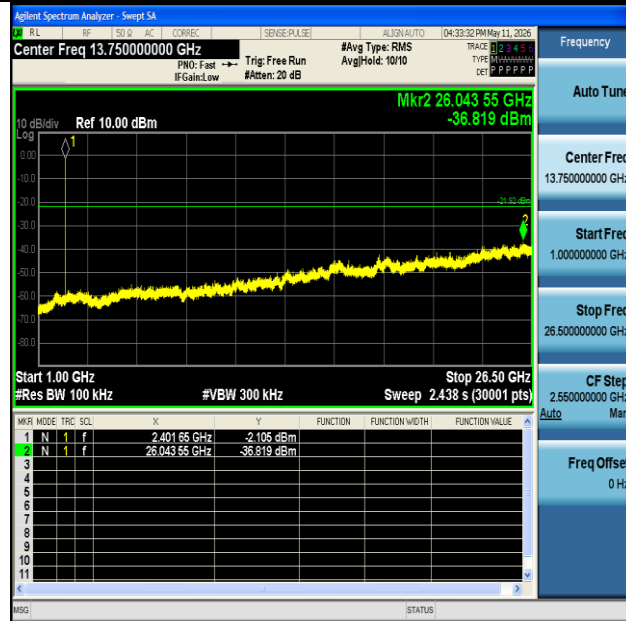


DH5-Ant1-2402-0~Reference-PASS

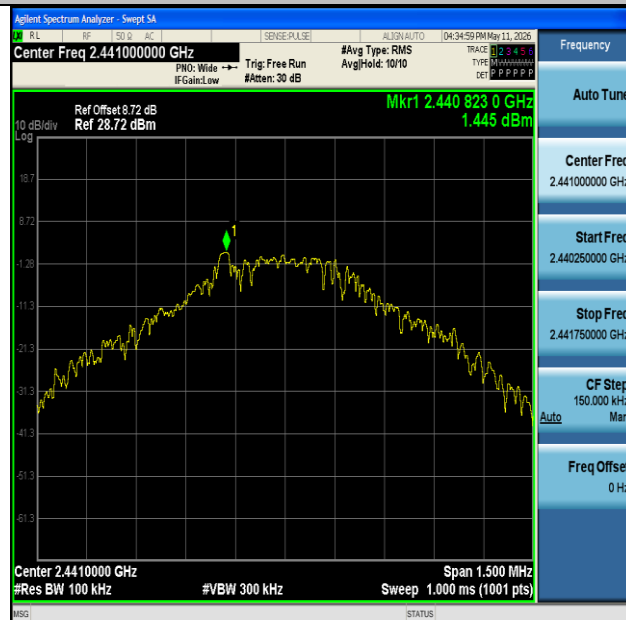


DH5-Ant1-2402-30~1000-PASS



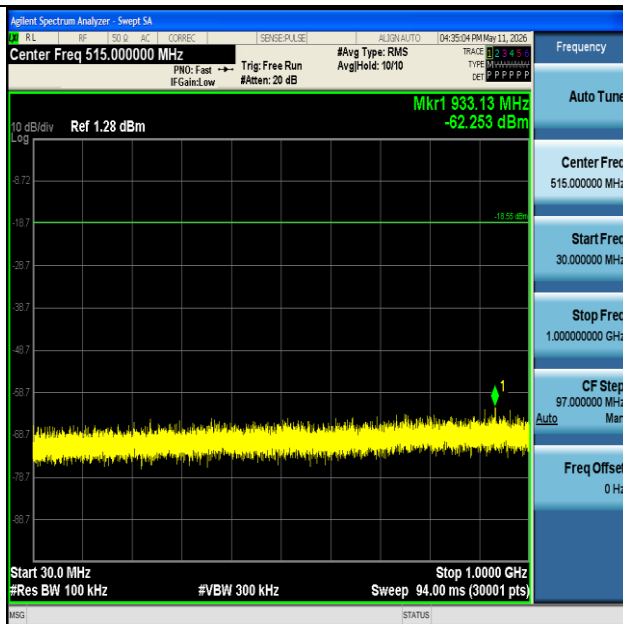


DH5-Ant1-2402-1000~26500-PASS

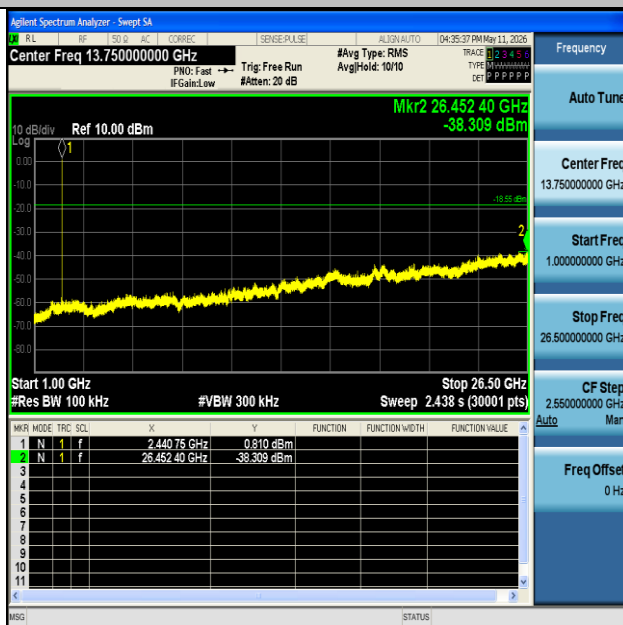


DH5-Ant1-2441-0~Reference-PASS



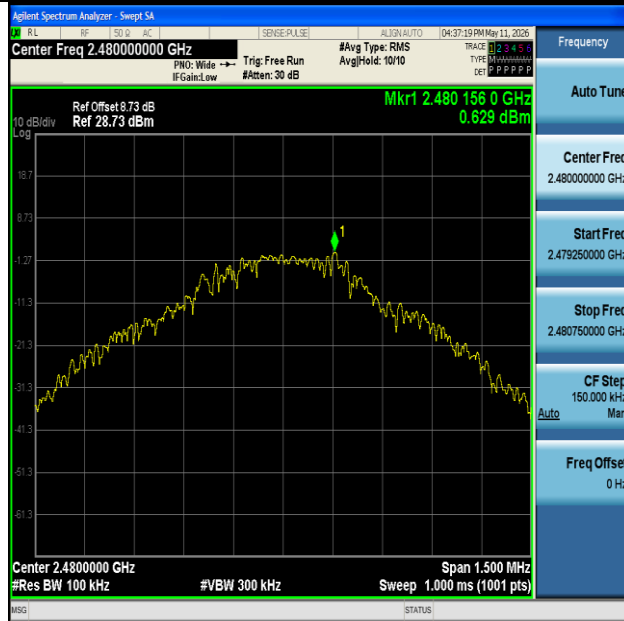


DH5-Ant1-2441-30~1000-PASS

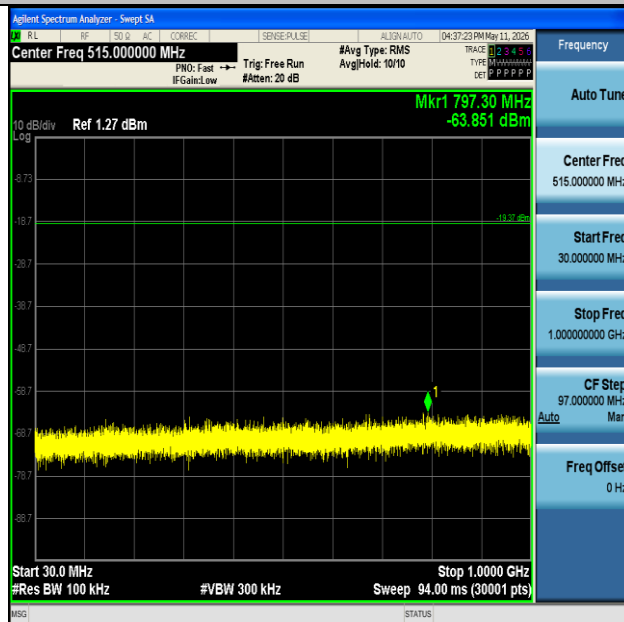


DH5-Ant1-2441-1000~26500-PASS



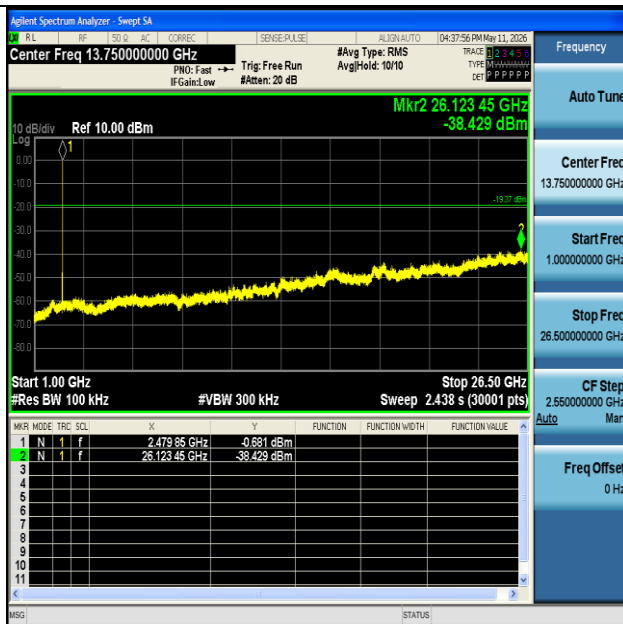


DH5-Ant1-2480-0~Reference-PASS

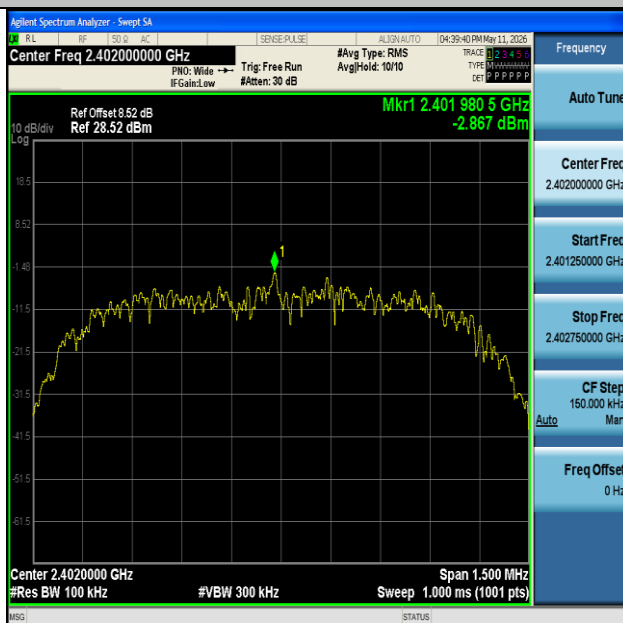


DH5-Ant1-2480-30~1000-PASS



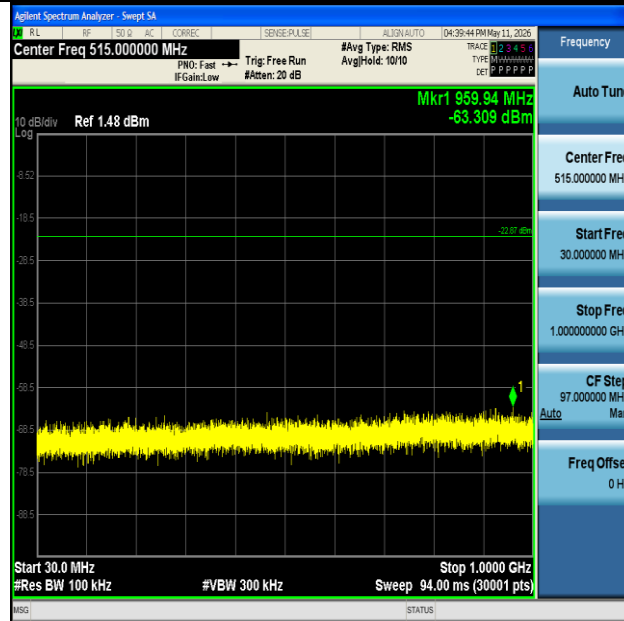


DH5-Ant1-2480-1000~26500-PASS

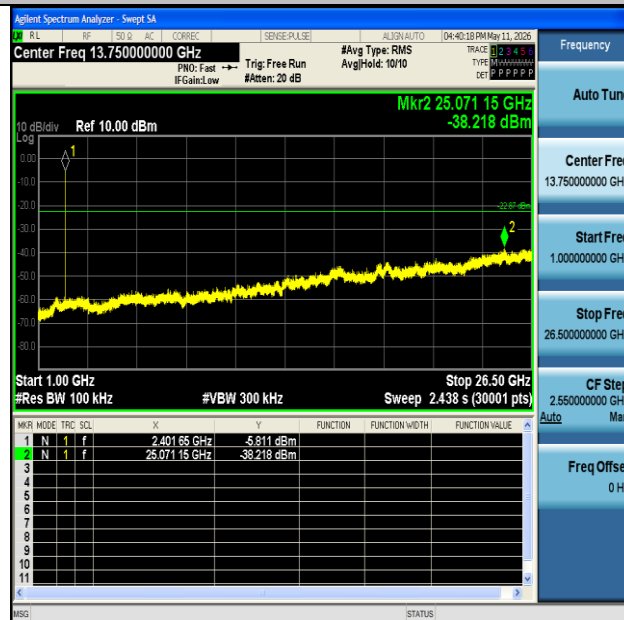


2DH5-Ant1-2402-0~Reference-PASS



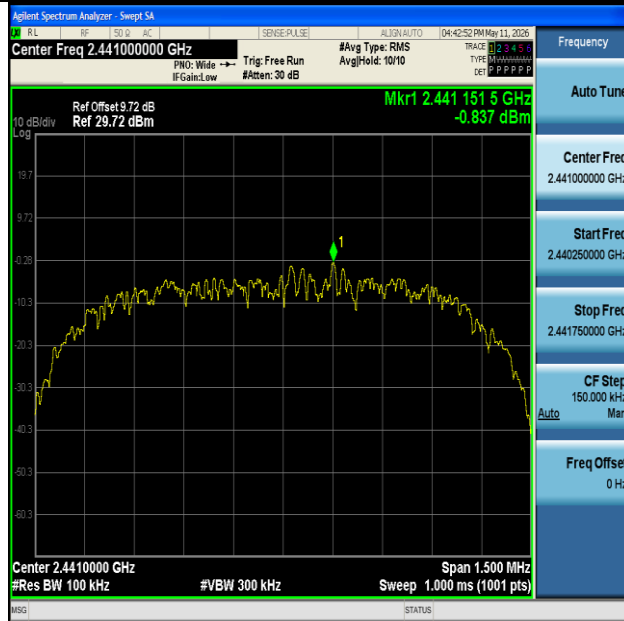


2DH5-Ant1-2402-30~1000-PASS

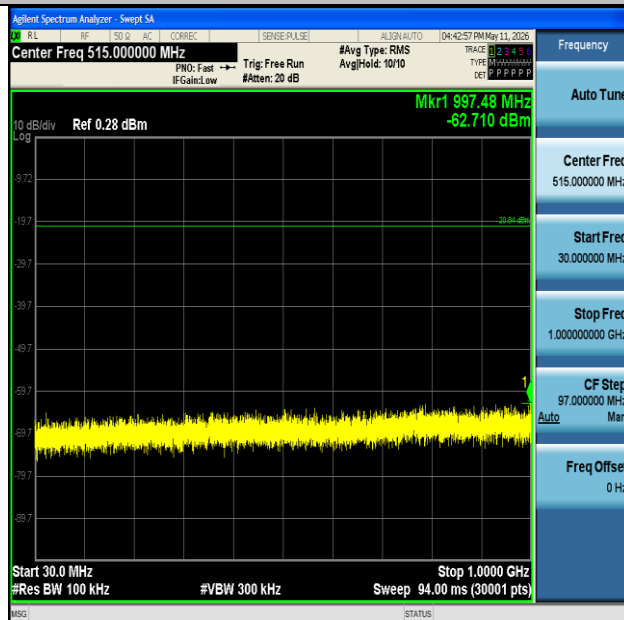


2DH5-Ant1-2402-1000~26500-PASS



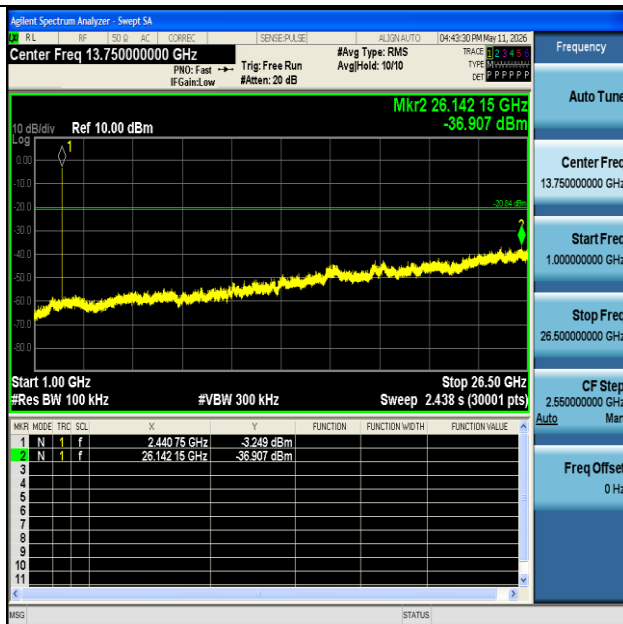


2DH5-Ant1-2441-0~Reference-PASS



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





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

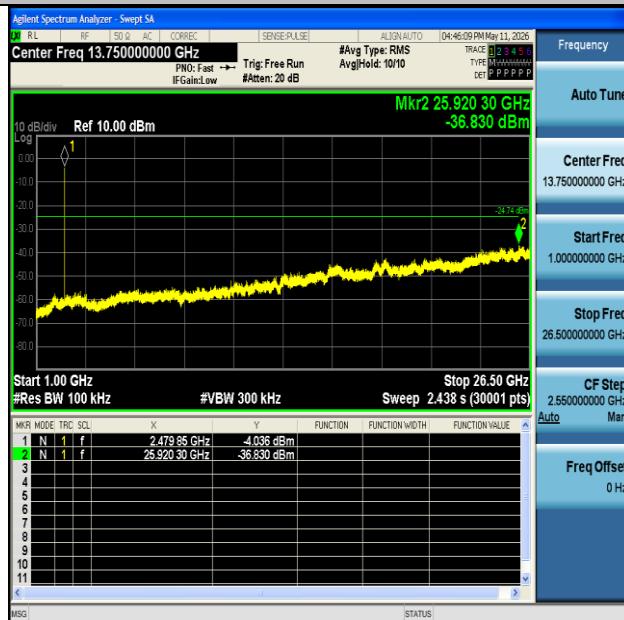


2DH5-Ant1-2480-0~Reference-PASS



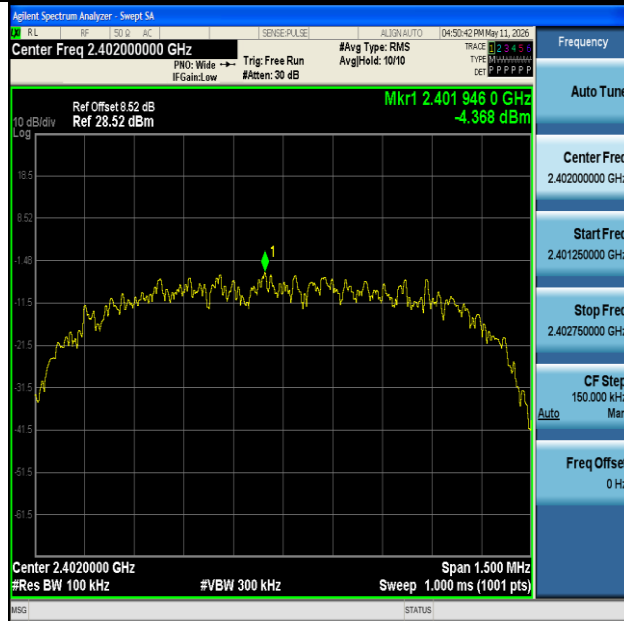


2DH5-Ant1-2480-30~1000-PASS

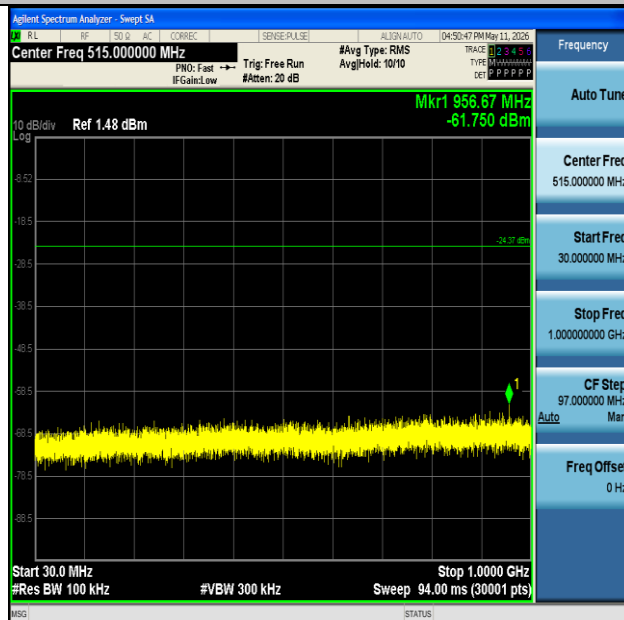


2DH5-Ant1-2480-1000~26500-PASS



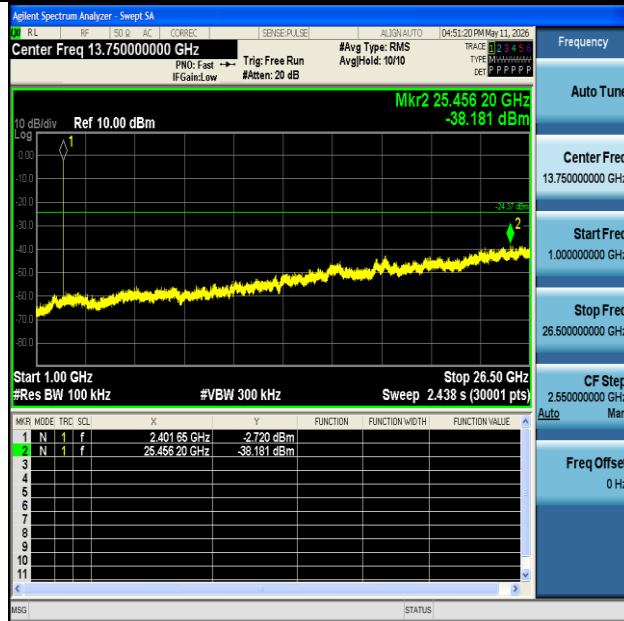


3DH5-Ant1-2402-0~Reference-PASS

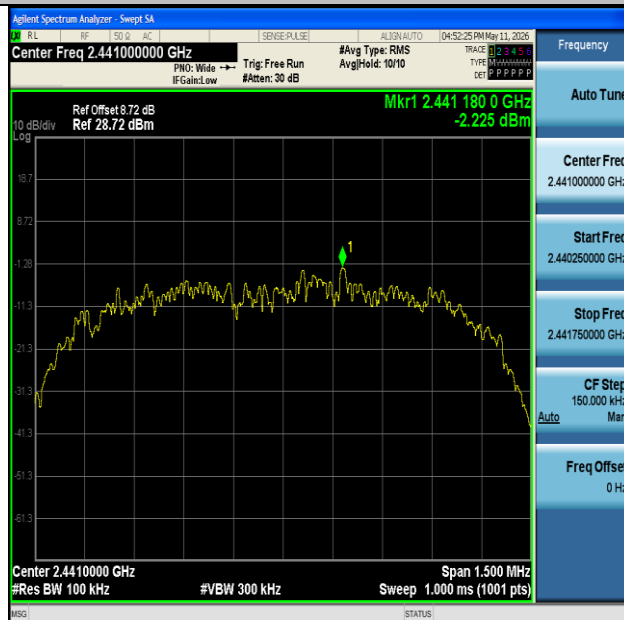


3DH5-Ant1-2402-30~1000-PASS



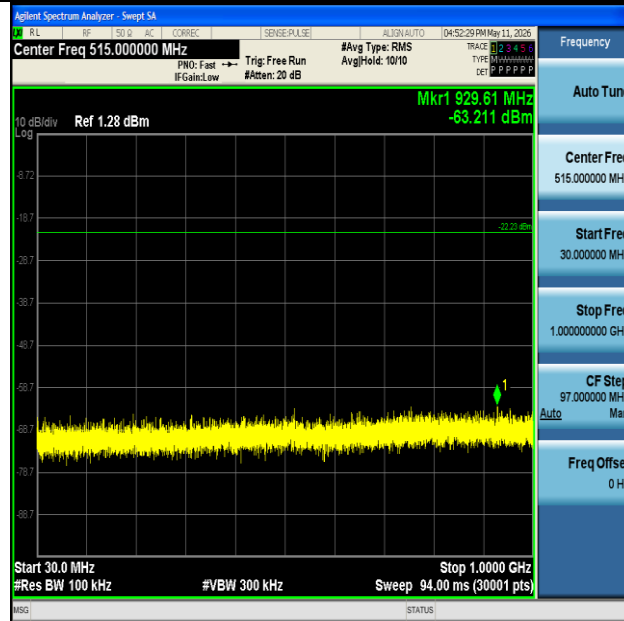


3DH5-Ant1-2402-1000~26500-PASS

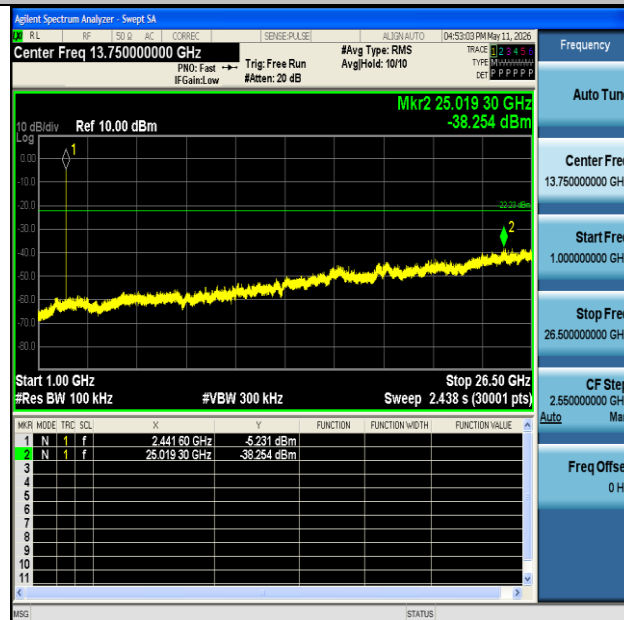


3DH5-Ant1-2441-0~Reference-PASS





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

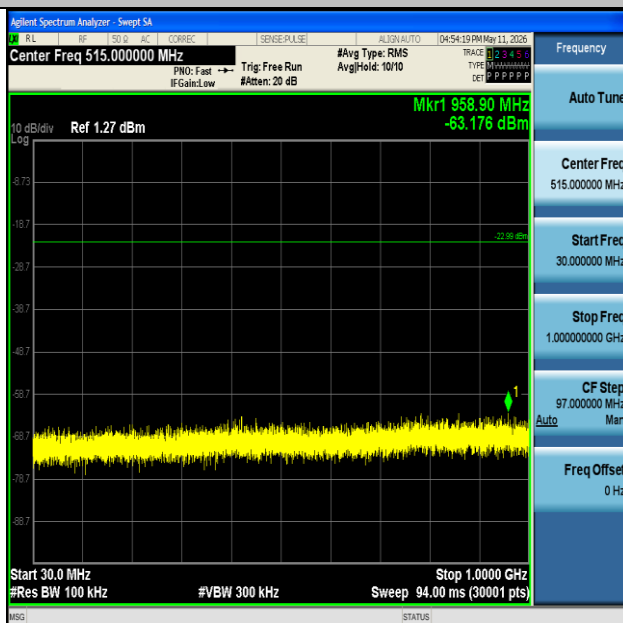


3DH5-Ant1-2441-1000~26500-PASS



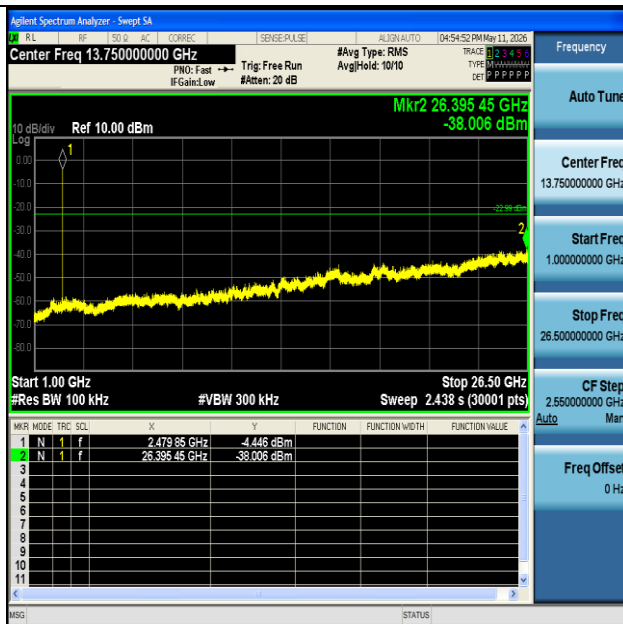


3DH5-Ant1-2480-0~Reference-PASS



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





3DH5-Ant1-2480-1000~26500-PASS





Appendix I: Duty Cycle

Test Result

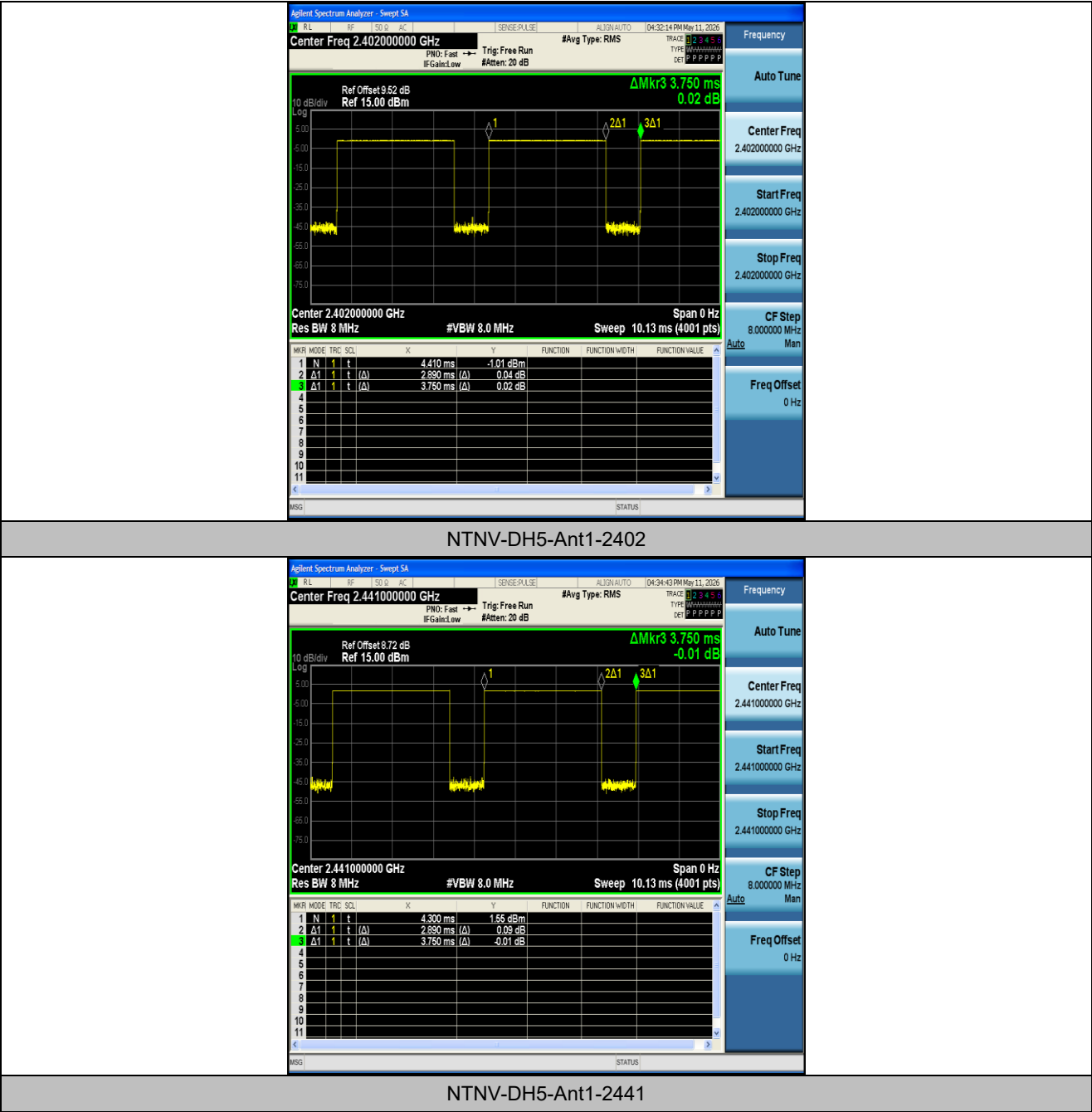
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	2.89	3.75	77.07	1.13
DH5	Ant1	2441	2.89	3.75	77.07	1.13
DH5	Ant1	2480	2.89	3.75	77.07	1.13
2DH5	Ant1	2402	2.88	3.74	77.01	1.13
2DH5	Ant1	2441	2.88	3.75	76.80	1.15
2DH5	Ant1	2480	2.89	3.75	77.07	1.13
3DH5	Ant1	2402	2.89	3.75	77.07	1.13
3DH5	Ant1	2441	2.88	3.74	77.01	1.13
3DH5	Ant1	2480	2.88	3.75	76.80	1.15

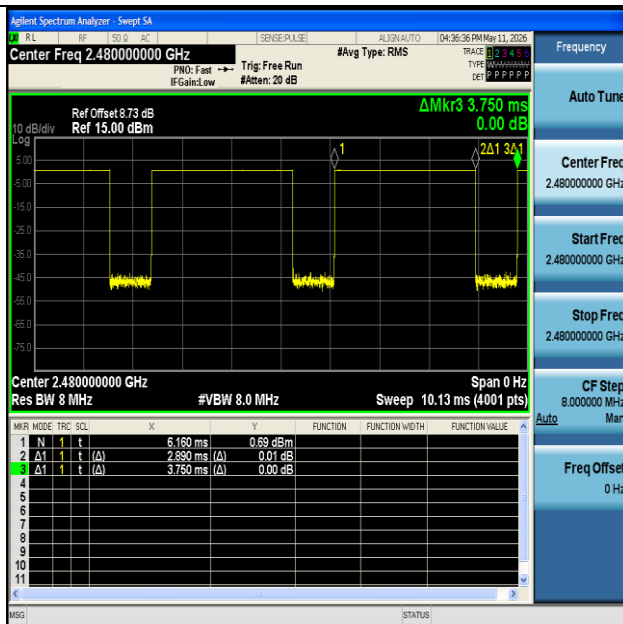
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



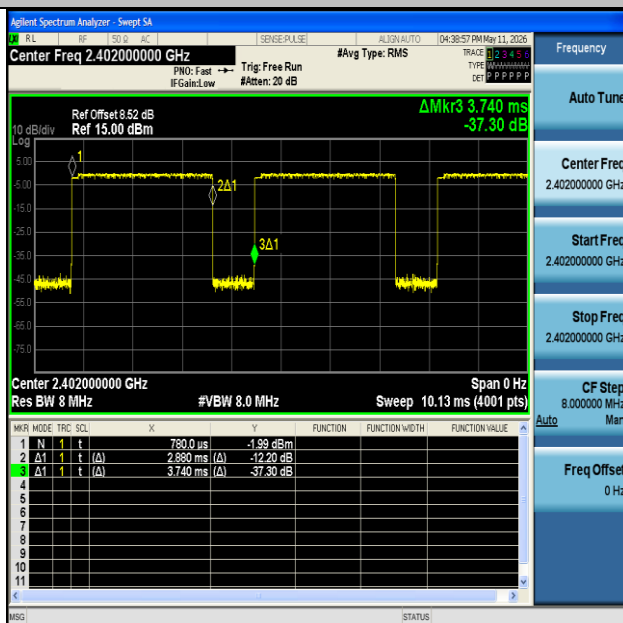


Test Graphs



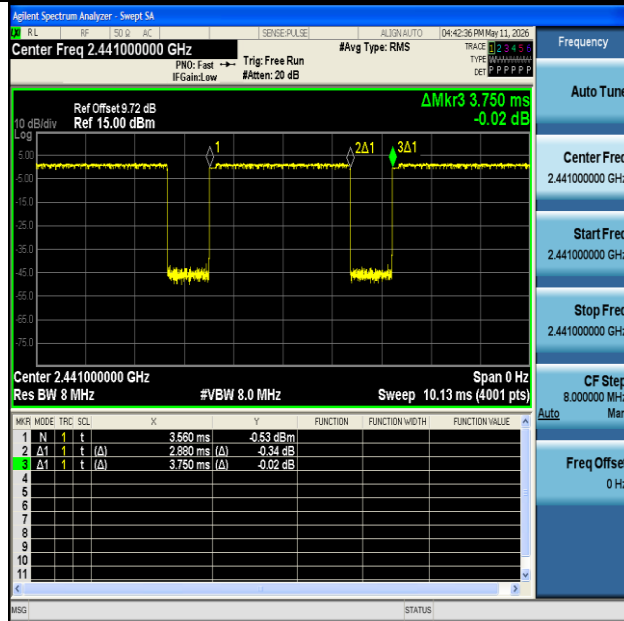


NTNV-DH5-Ant1-2480

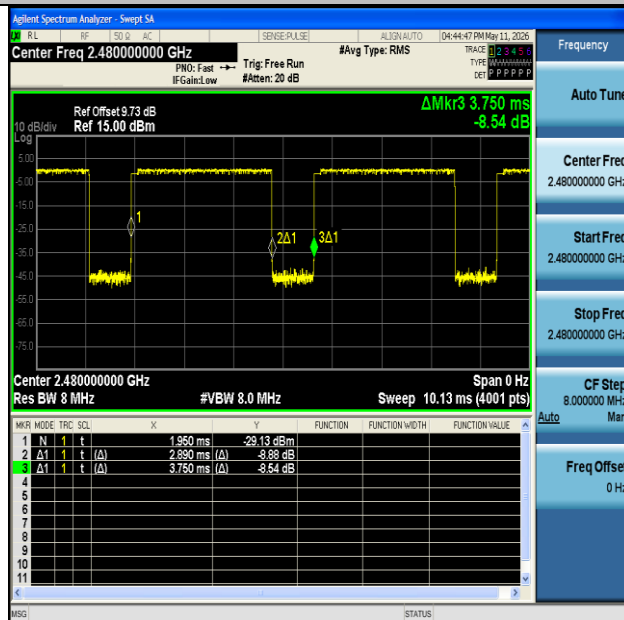


NTNV-2DH5-Ant1-2402





NTNV-2DH5-Ant1-2441

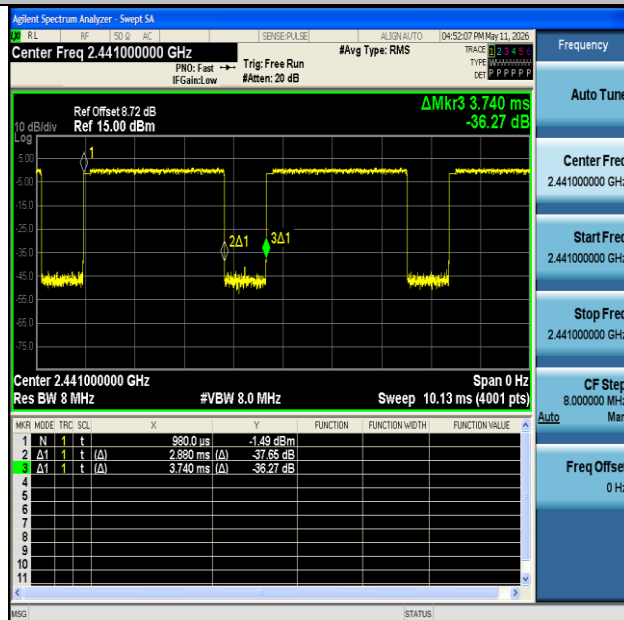


NTNV-2DH5-Ant1-2480



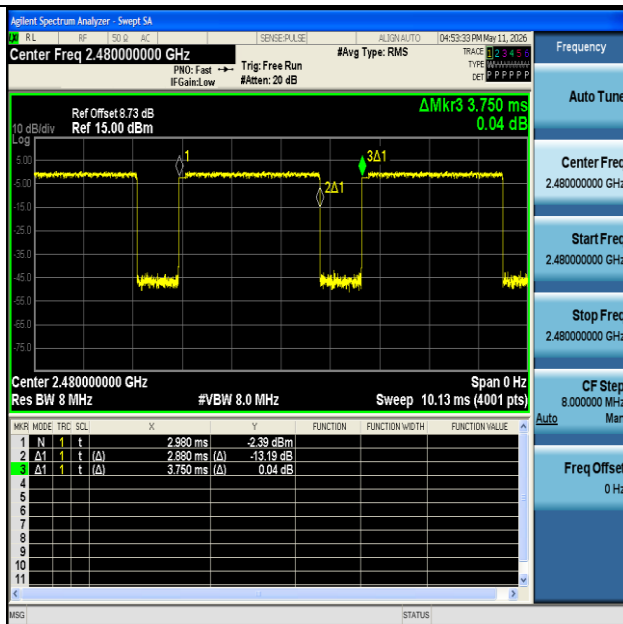


NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441





NTNV-3DH5-Ant1-2480

