



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

Product Name: Bluetooth earbuds

Trade Mark: /

Test Model: BH26CT03A

FCC ID: RDR-CT03AL

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	1.041	2401.445	2402.486	---	---
DH5	Ant1	2441	1.038	2440.442	2441.480	---	---
DH5	Ant1	2480	1.050	2479.442	2480.492	---	---
2DH5	Ant1	2402	1.266	2401.352	2402.618	---	---
2DH5	Ant1	2441	1.275	2440.352	2441.627	---	---
2DH5	Ant1	2480	1.323	2479.316	2480.639	---	---
3DH5	Ant1	2402	1.260	2401.364	2402.624	---	---
3DH5	Ant1	2441	1.278	2440.346	2441.624	---	---
3DH5	Ant1	2480	1.296	2479.331	2480.627	---	---

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



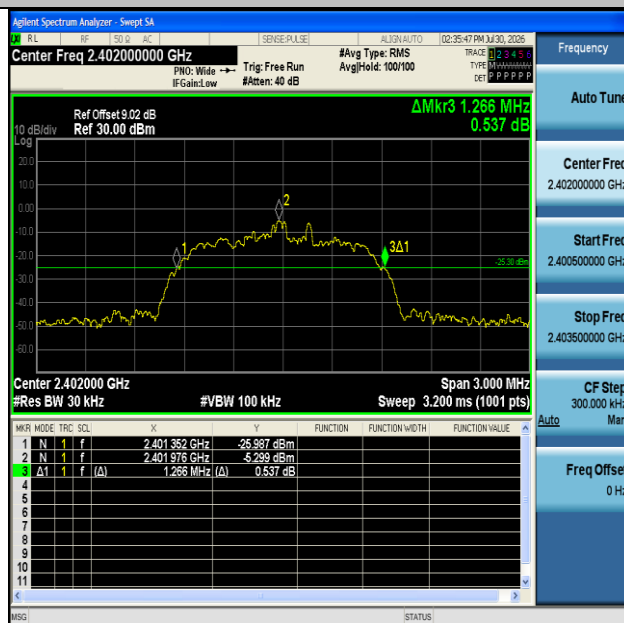


Test Graphs





DH5-Ant1-2480



2DH5-Ant1-2402





2DH5-Ant1-2441

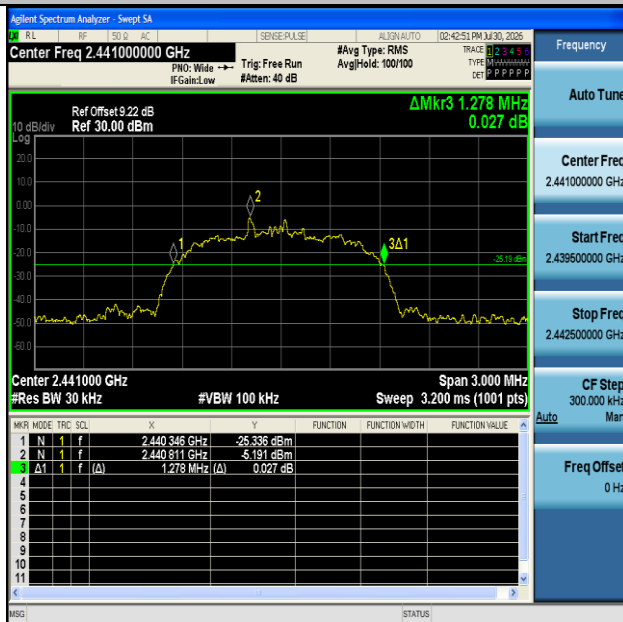


2DH5-Ant1-2480





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	0.91830	2401.5249	2402.4432	---	---
DH5	Ant1	2441	0.91065	2440.5268	2441.4375	---	---
DH5	Ant1	2480	0.92042	2479.5255	2480.4459	---	---
2DH5	Ant1	2402	1.1735	2401.3911	2402.5646	---	---
2DH5	Ant1	2441	1.1688	2440.3950	2441.5638	---	---
2DH5	Ant1	2480	1.1674	2479.3934	2480.5608	---	---
3DH5	Ant1	2402	1.1640	2401.4008	2402.5648	---	---
3DH5	Ant1	2441	1.1674	2440.3972	2441.5646	---	---
3DH5	Ant1	2480	1.1752	2479.3938	2480.5690	---	---

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



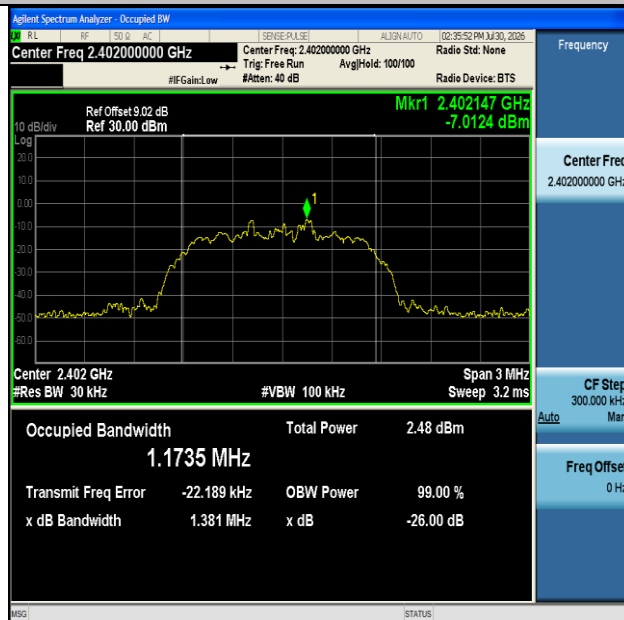


Test Graphs



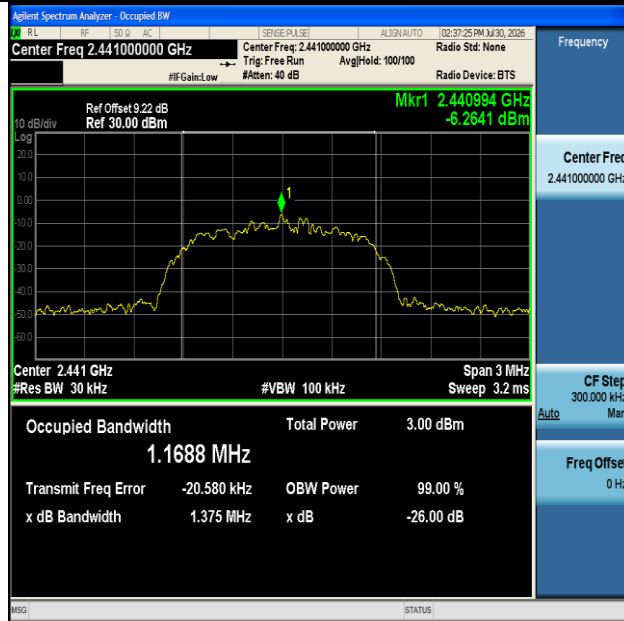


DH5-Ant1-2480

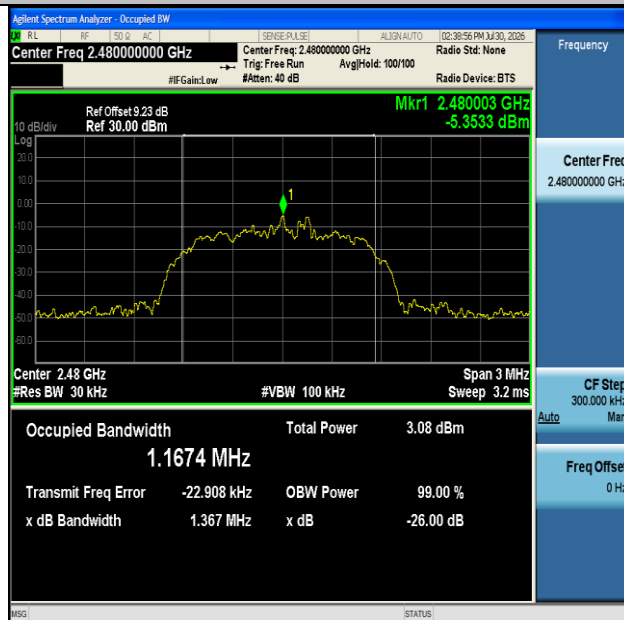


2DH5-Ant1-2402



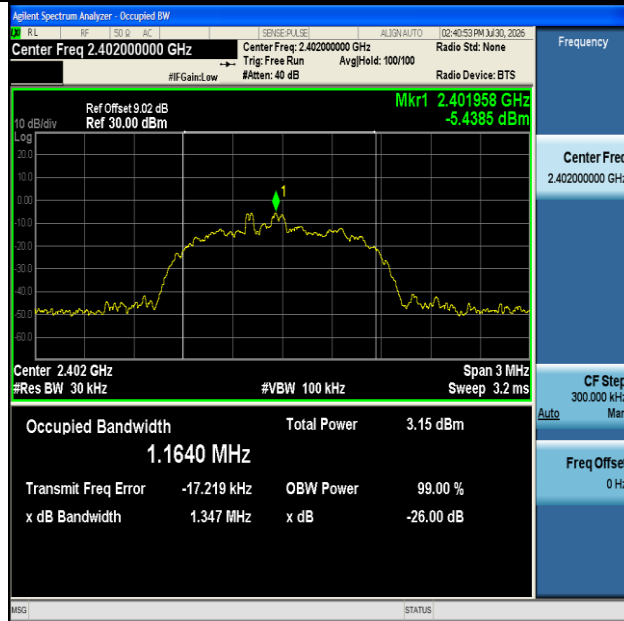


2DH5-Ant1-2441

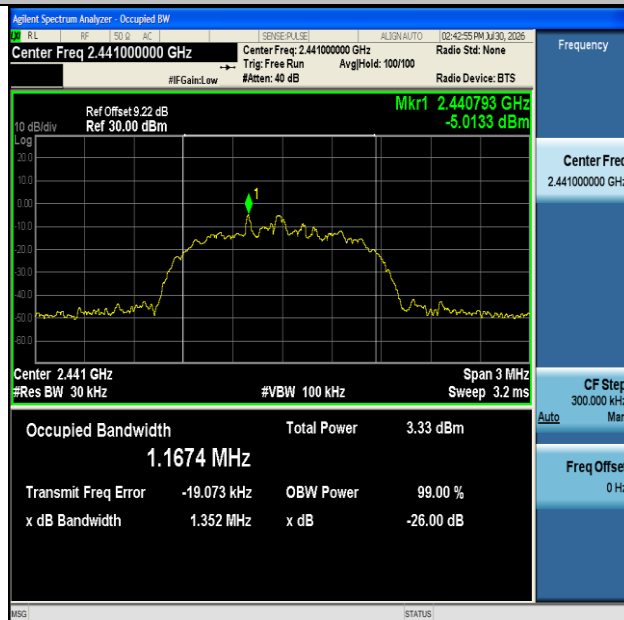


2DH5-Ant1-2480



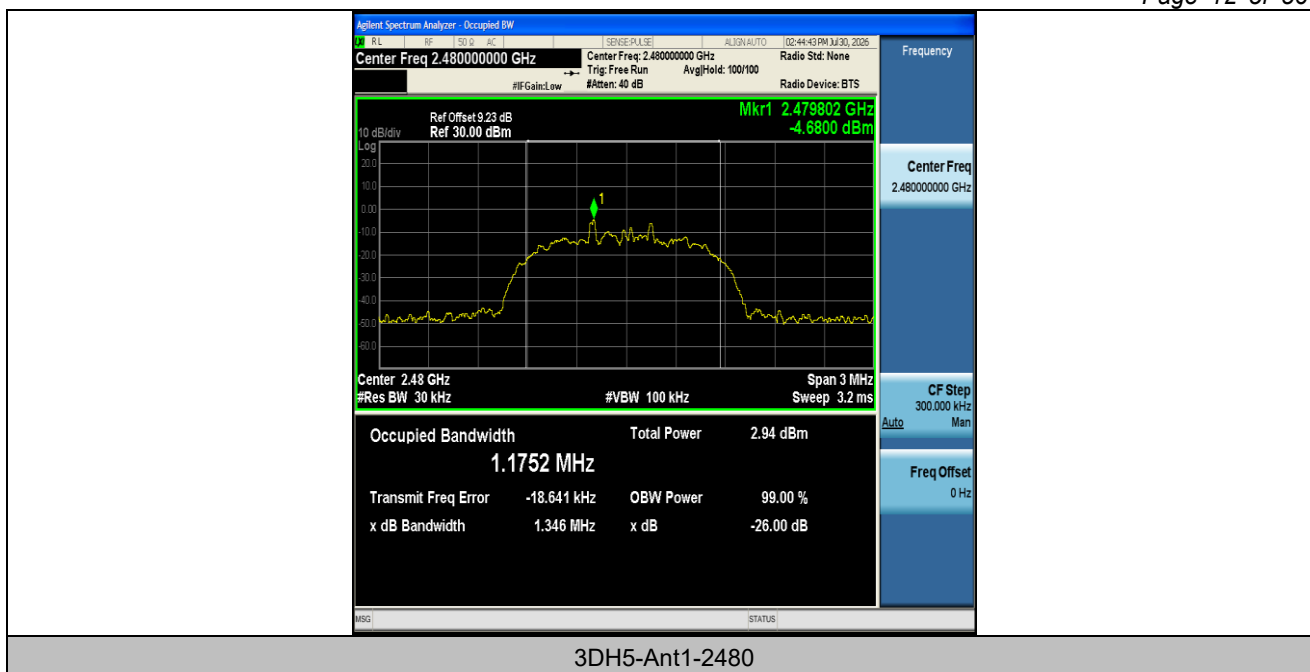


3DH5-Ant1-2402



3DH5-Ant1-2441







Appendix C: Maximum peak conducted output power

Test Result

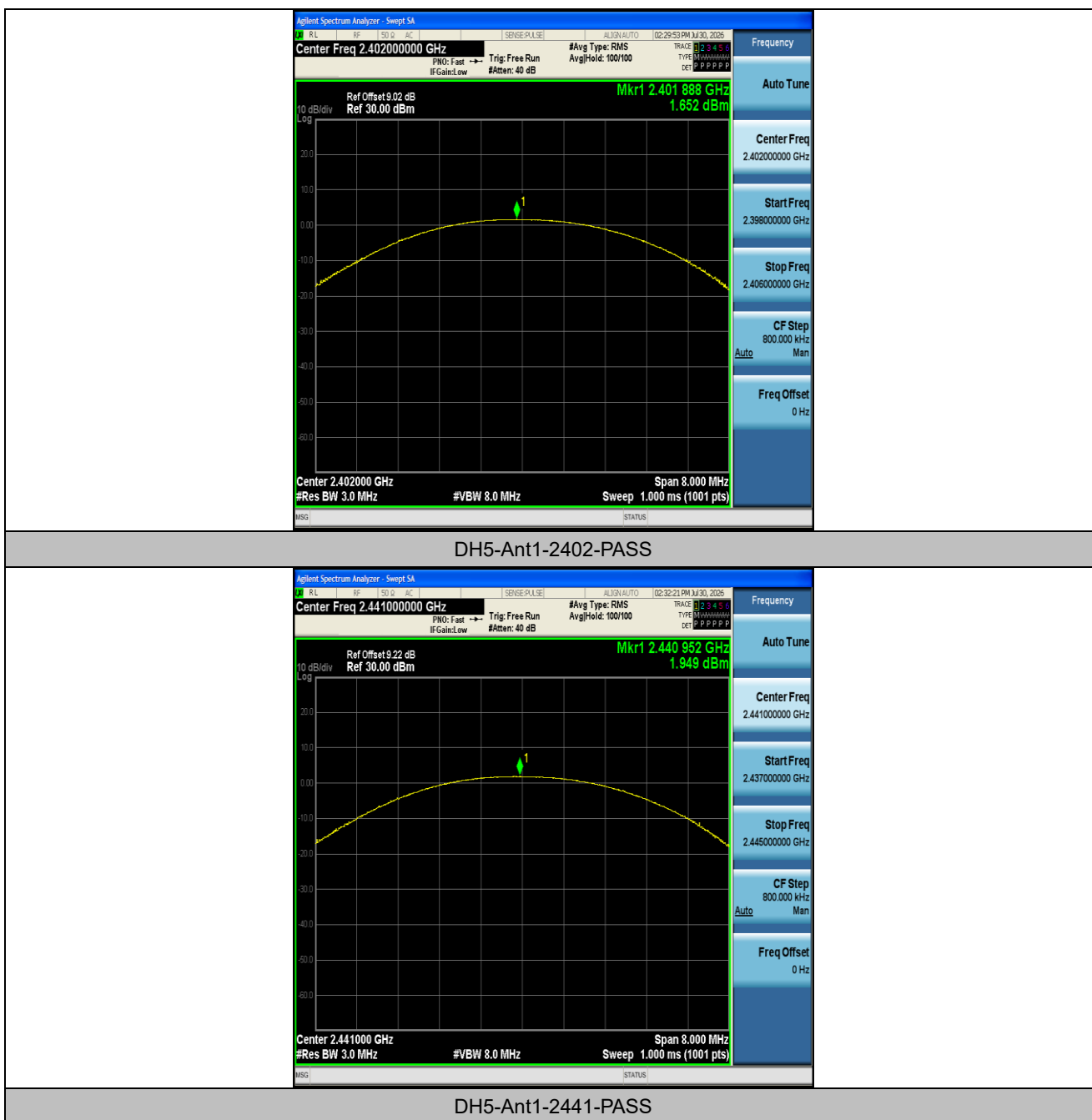
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	1.65	≤20.97	PASS
DH5	Ant1	2441	1.95	≤20.97	PASS
DH5	Ant1	2480	1.66	≤20.97	PASS
2DH5	Ant1	2402	-1.27	≤20.97	PASS
2DH5	Ant1	2441	-1.07	≤20.97	PASS
2DH5	Ant1	2480	-1.12	≤20.97	PASS
3DH5	Ant1	2402	-1.23	≤20.97	PASS
3DH5	Ant1	2441	-1.00	≤20.97	PASS
3DH5	Ant1	2480	-1.16	≤20.97	PASS

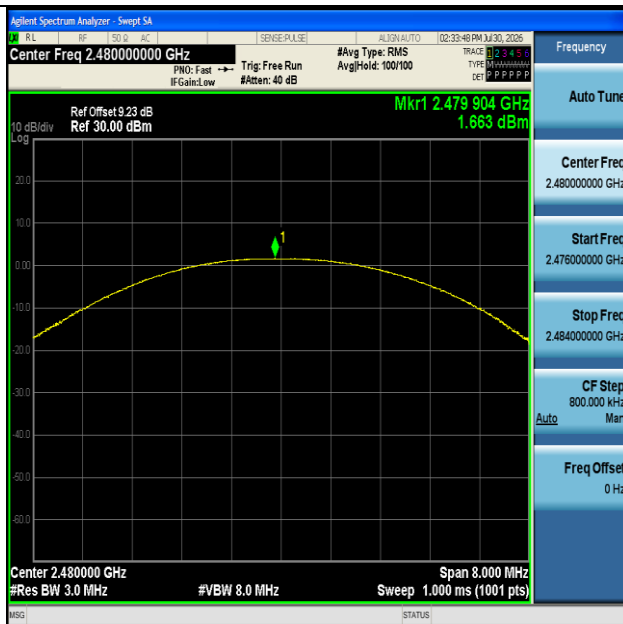
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



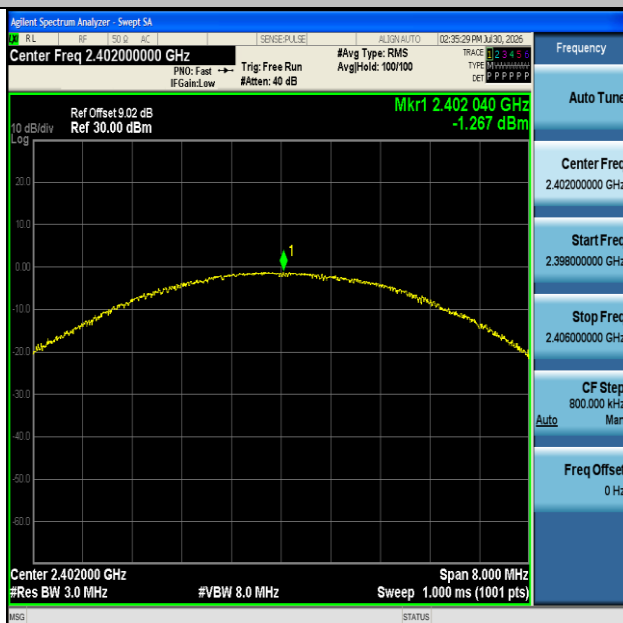


Test Graphs



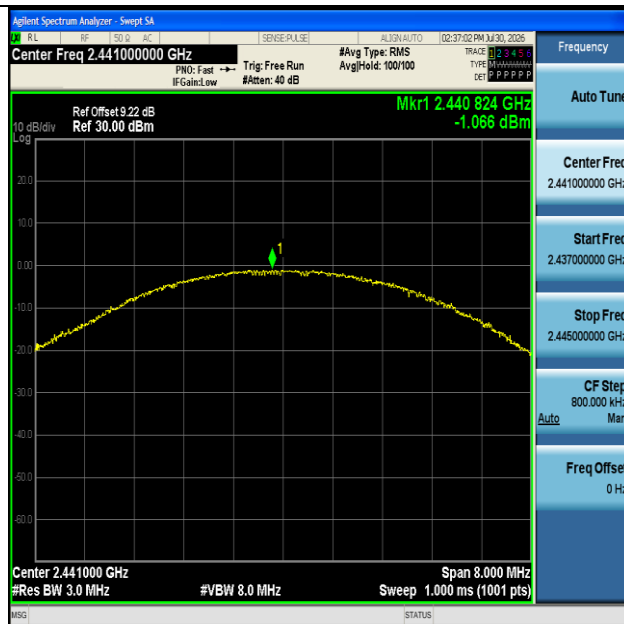


DH5-Ant1-2480-PASS

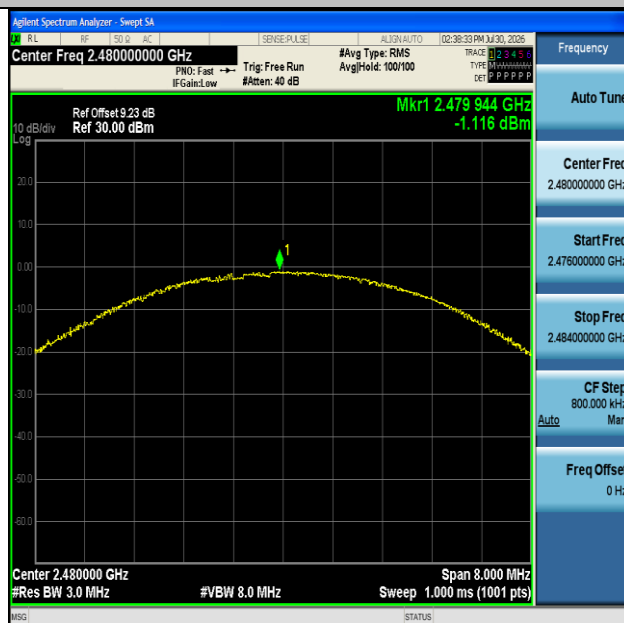


2DH5-Ant1-2402-PASS



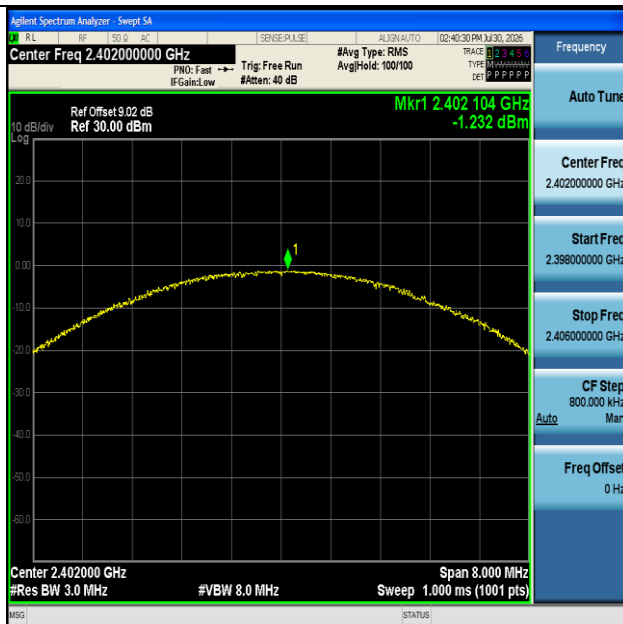


2DH5-Ant1-2441-PASS

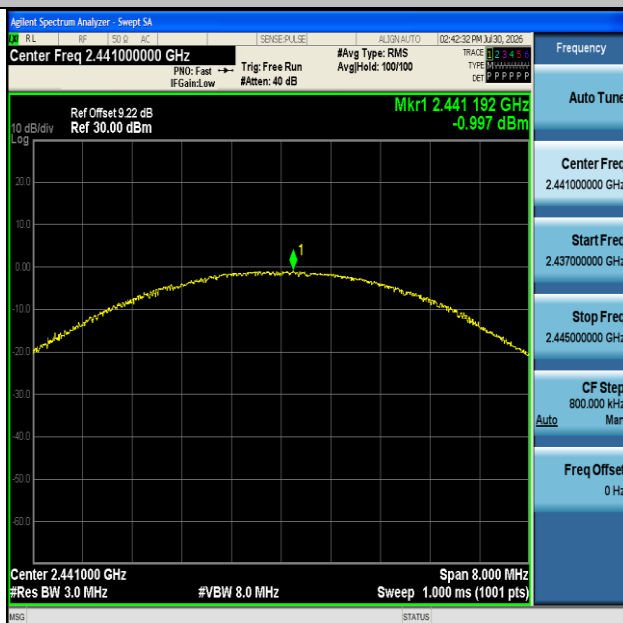


2DH5-Ant1-2480-PASS



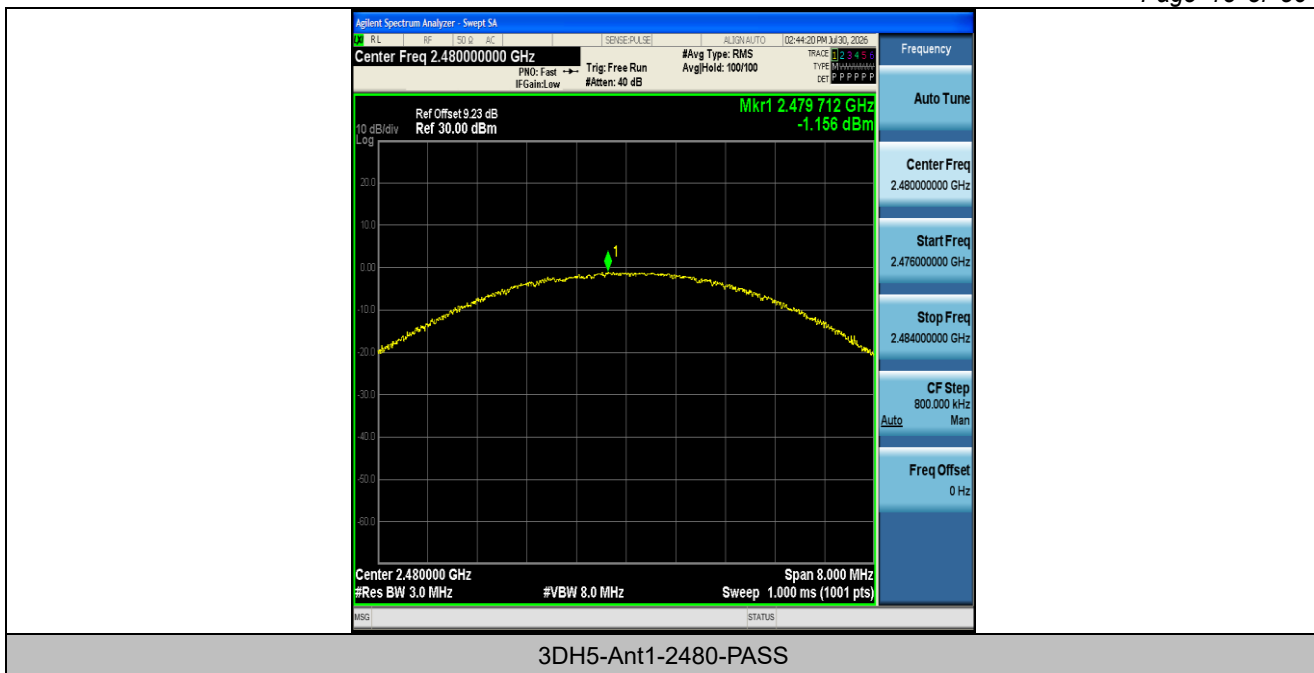


3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS







Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.992	≥0.700	PASS
2DH5	Ant1	Hop	0.976	≥0.882	PASS
3DH5	Ant1	Hop	0.95	≥0.864	PASS

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





Test Graphs







Appendix E: Time of occupancy

Test Result

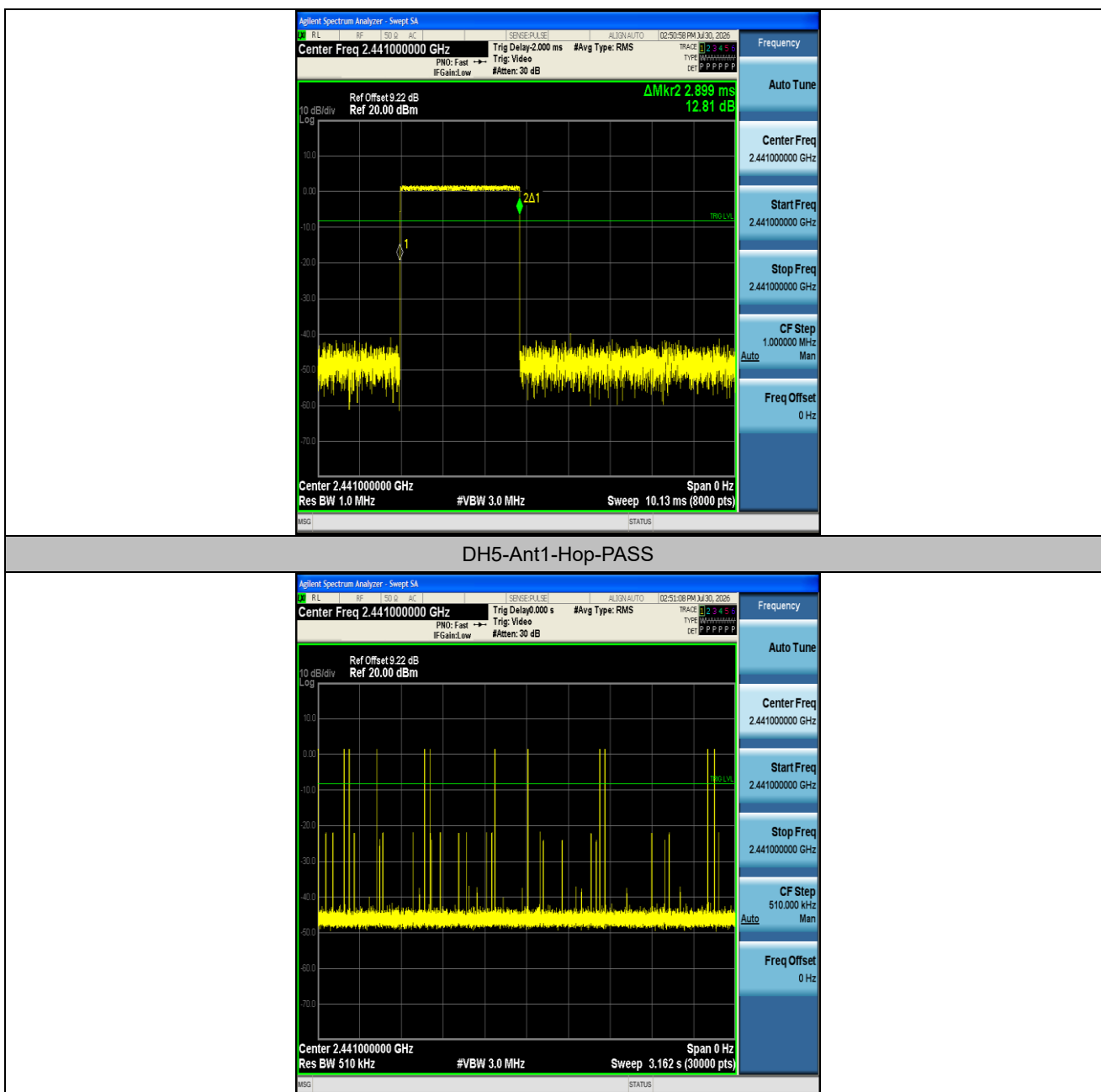
Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.899	120	0.348	≤0.4	PASS
2DH5	Ant1	Hop	2.904	100	0.29	≤0.4	PASS
3DH5	Ant1	Hop	2.906	80	0.232	≤0.4	PASS

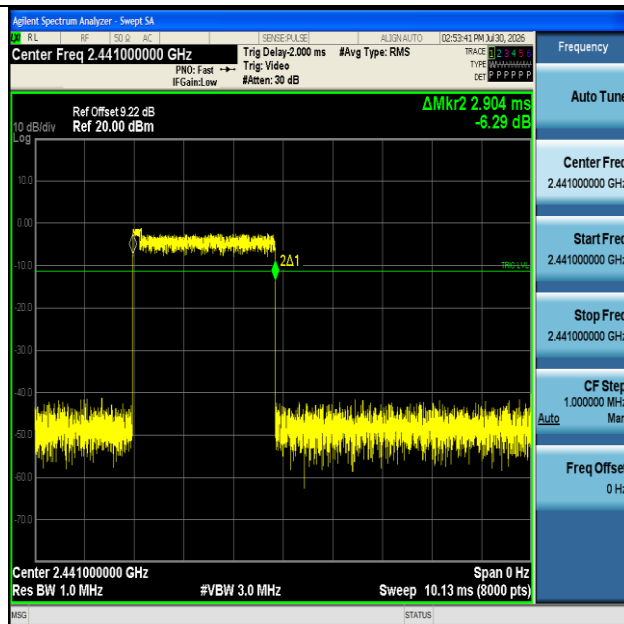
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



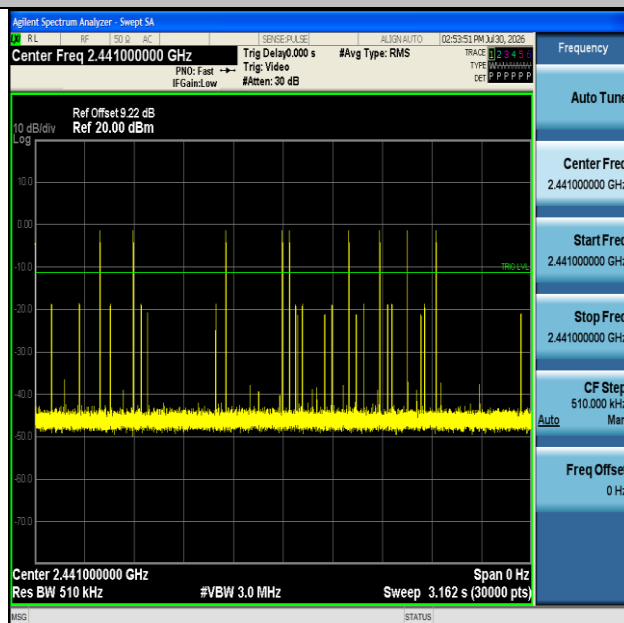


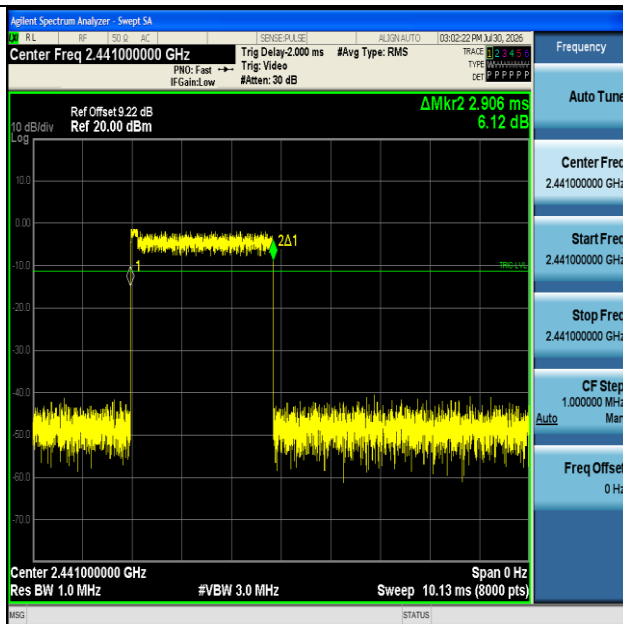
Test Graphs



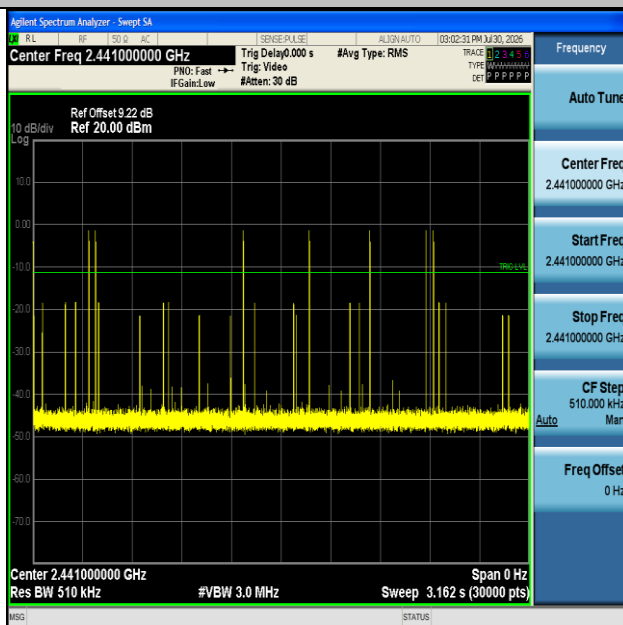


2DH5-Ant1-Hop-PASS





3DH5-Ant1-Hop-PASS





Appendix F: Number of hopping channels

Test Result

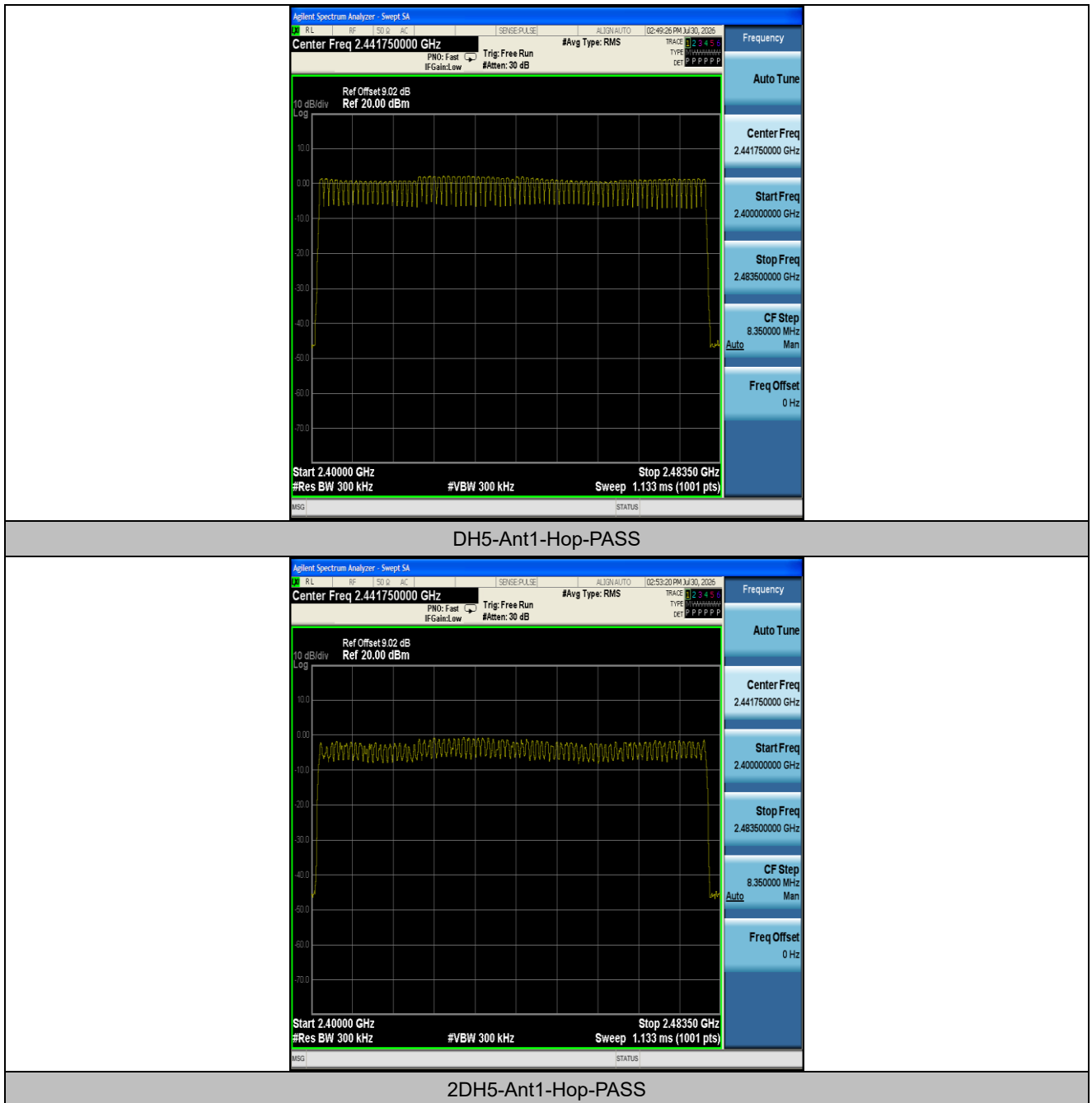
Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

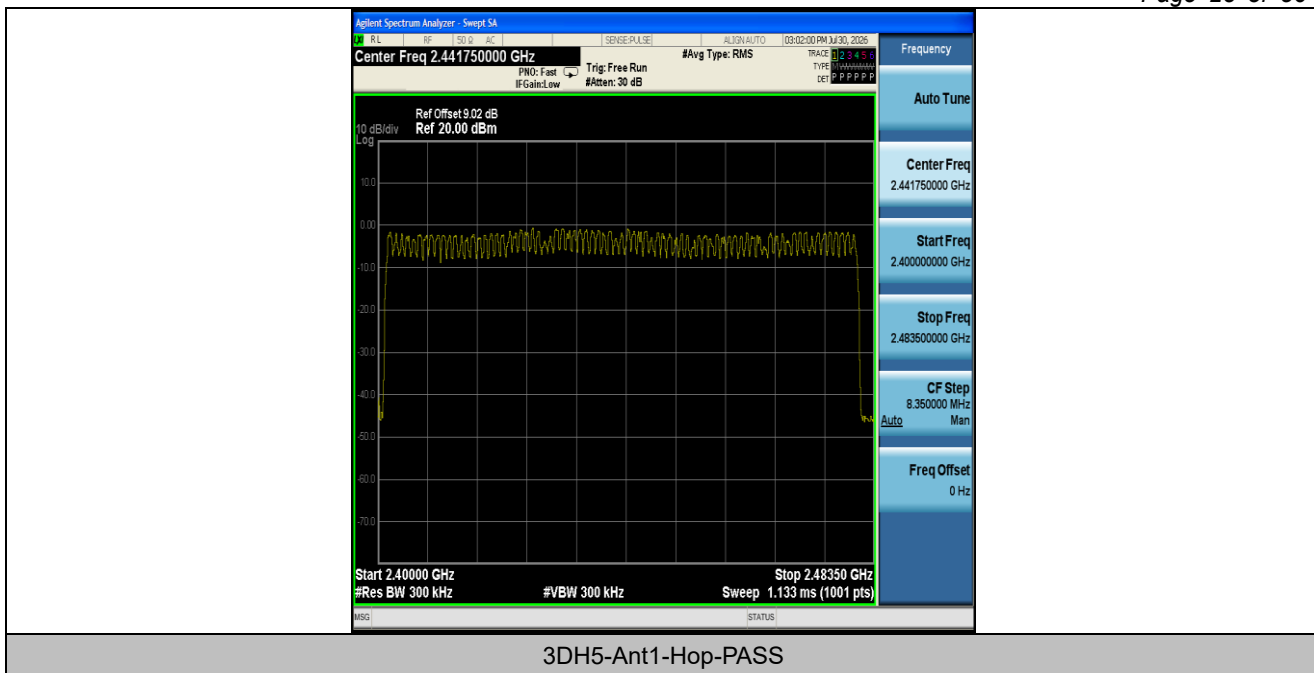
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs







Appendix G: Band edge measurements

Test Result

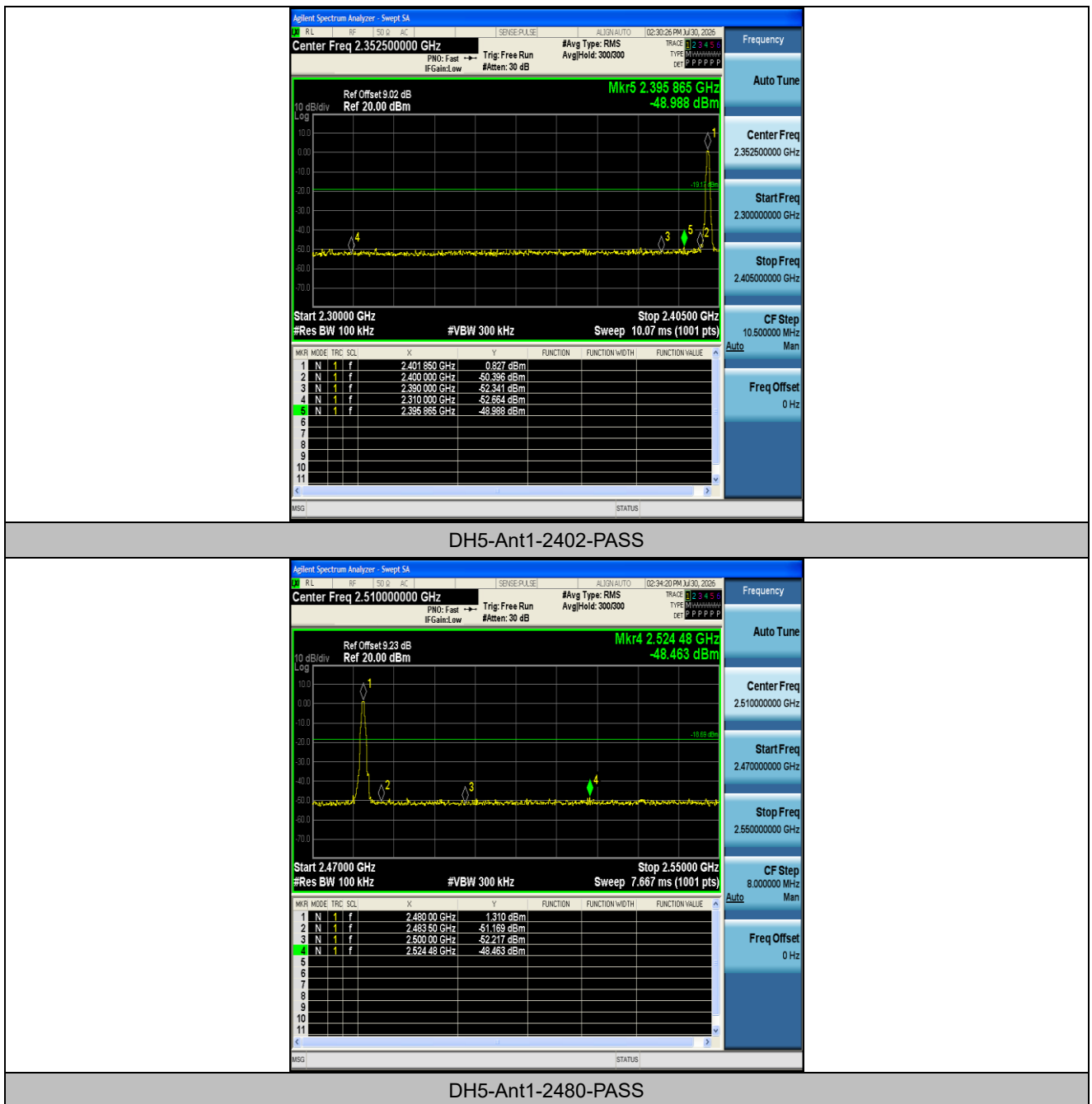
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.83	-48.99	≤-19.17	PASS
DH5	Ant1	High	2480	1.31	-48.46	≤-18.69	PASS
DH5	Ant1	Low	Hop_2402	0.38	-49.21	≤-19.62	PASS
DH5	Ant1	High	Hop_2480	0.90	-48.1	≤-19.1	PASS
2DH5	Ant1	Low	2402	-1.90	-49.53	≤-21.9	PASS
2DH5	Ant1	High	2480	-1.78	-48.31	≤-21.78	PASS
2DH5	Ant1	Low	Hop_2402	-4.03	-48.15	≤-24.03	PASS
2DH5	Ant1	High	Hop_2480	-6.26	-48.09	≤-26.26	PASS
3DH5	Ant1	Low	2402	-2.52	-49.08	≤-22.52	PASS
3DH5	Ant1	High	2480	-2.62	-48.62	≤-22.62	PASS
3DH5	Ant1	Low	Hop_2402	-7.84	-49.19	≤-27.84	PASS
3DH5	Ant1	High	Hop_2480	-2.11	-48.34	≤-22.11	PASS

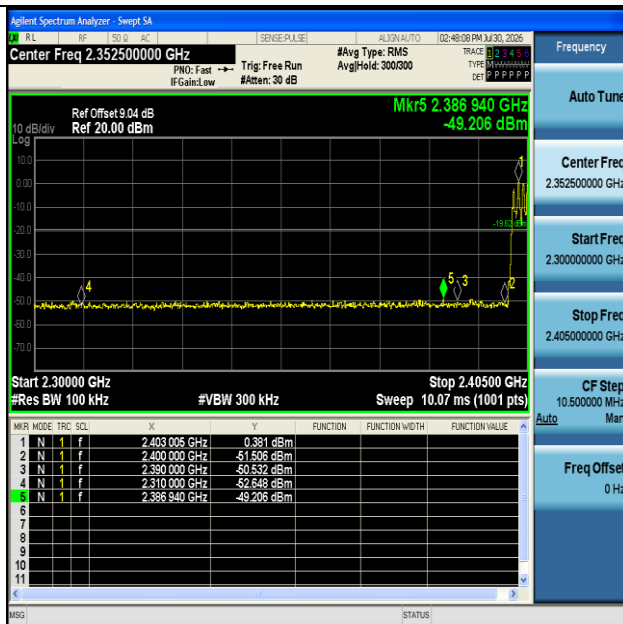
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



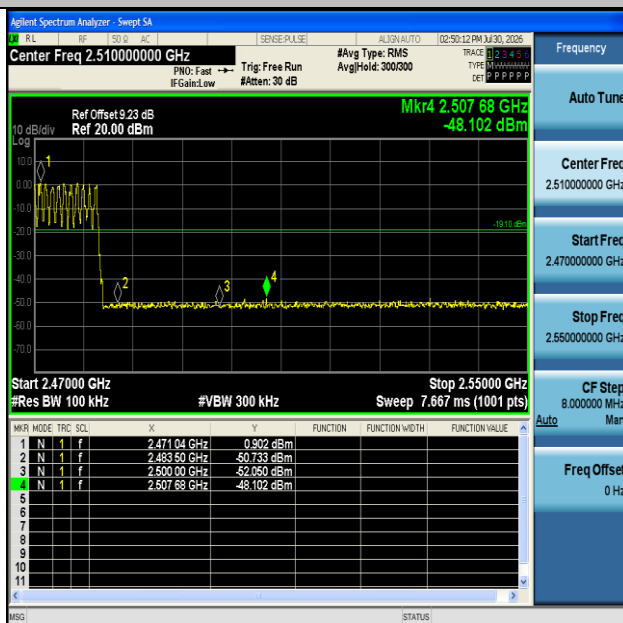


Test Graphs



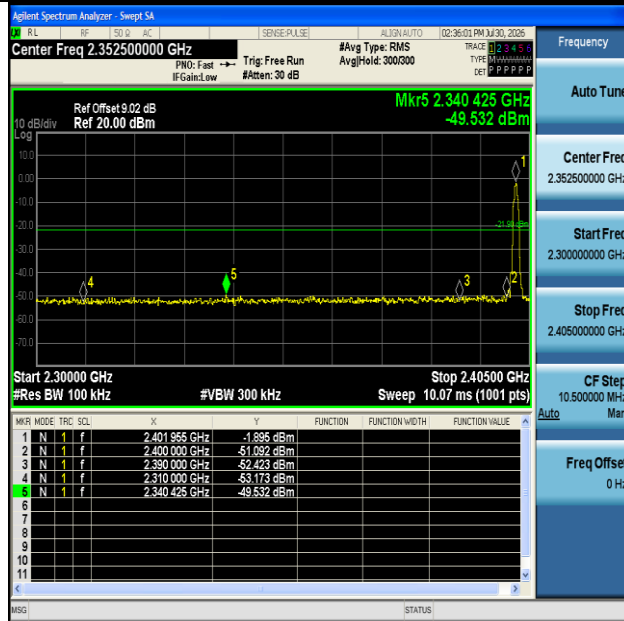


DH5-Ant1-Hop_2402-PASS

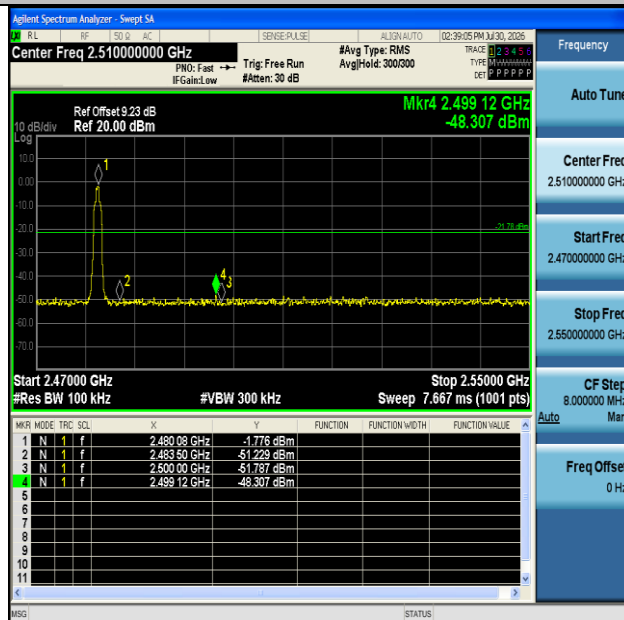


DH5-Ant1-Hop_2480-PASS



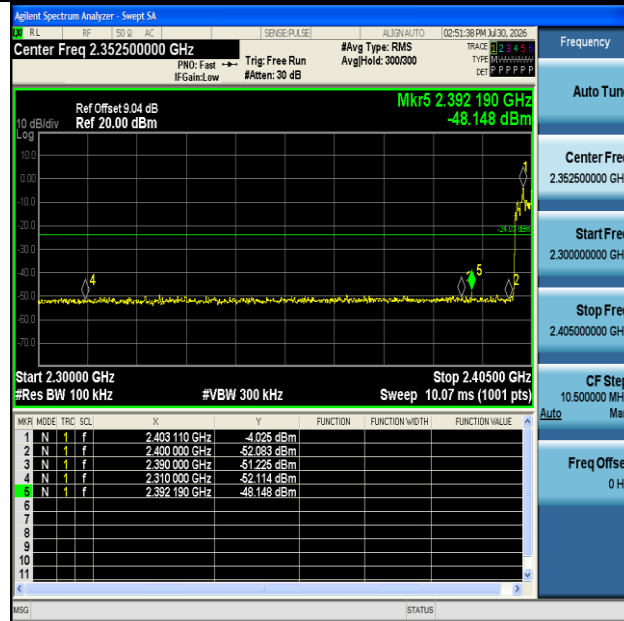


2DH5-Ant1-2402-PASS

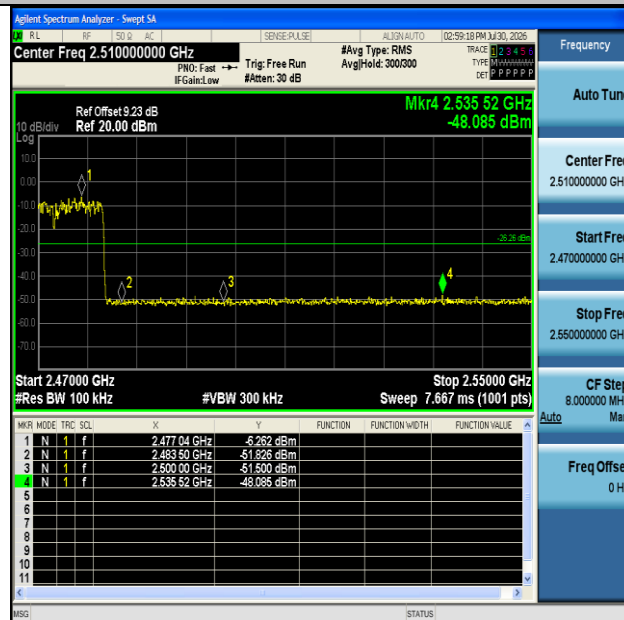


2DH5-Ant1-2480-PASS



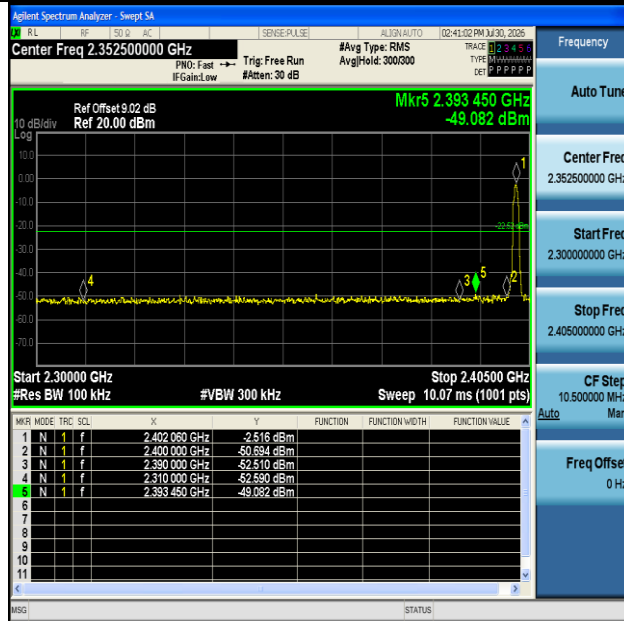


2DH5-Ant1-Hop_2402-PASS

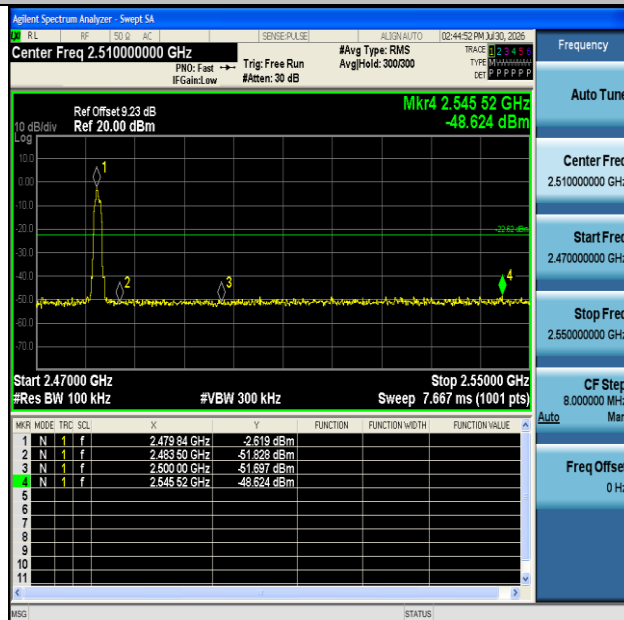


2DH5-Ant1-Hop_2480-PASS



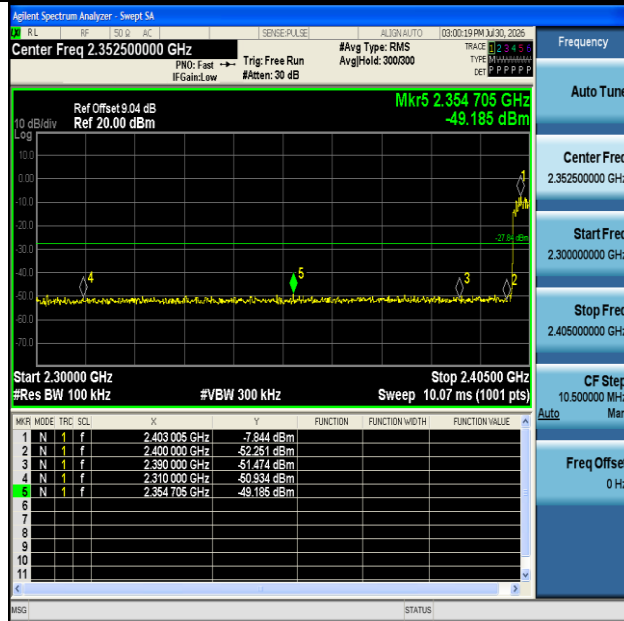


3DH5-Ant1-2402-PASS

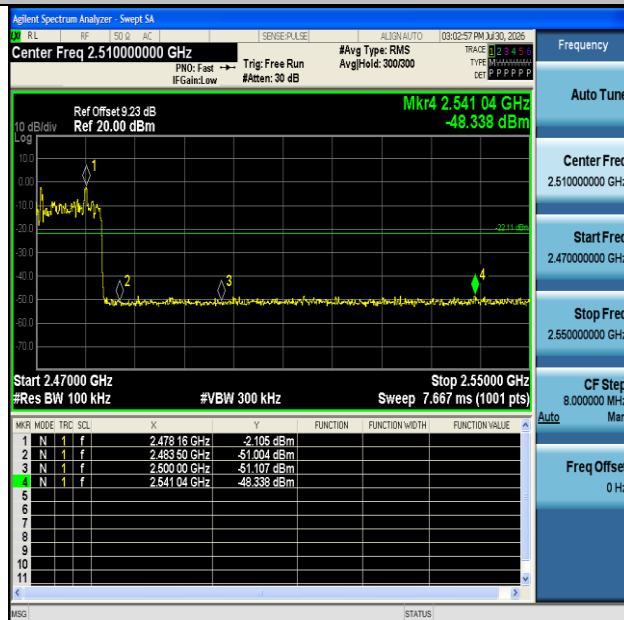


3DH5-Ant1-2480-PASS





3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS





Appendix H: Conducted Spurious Emission

Test Result

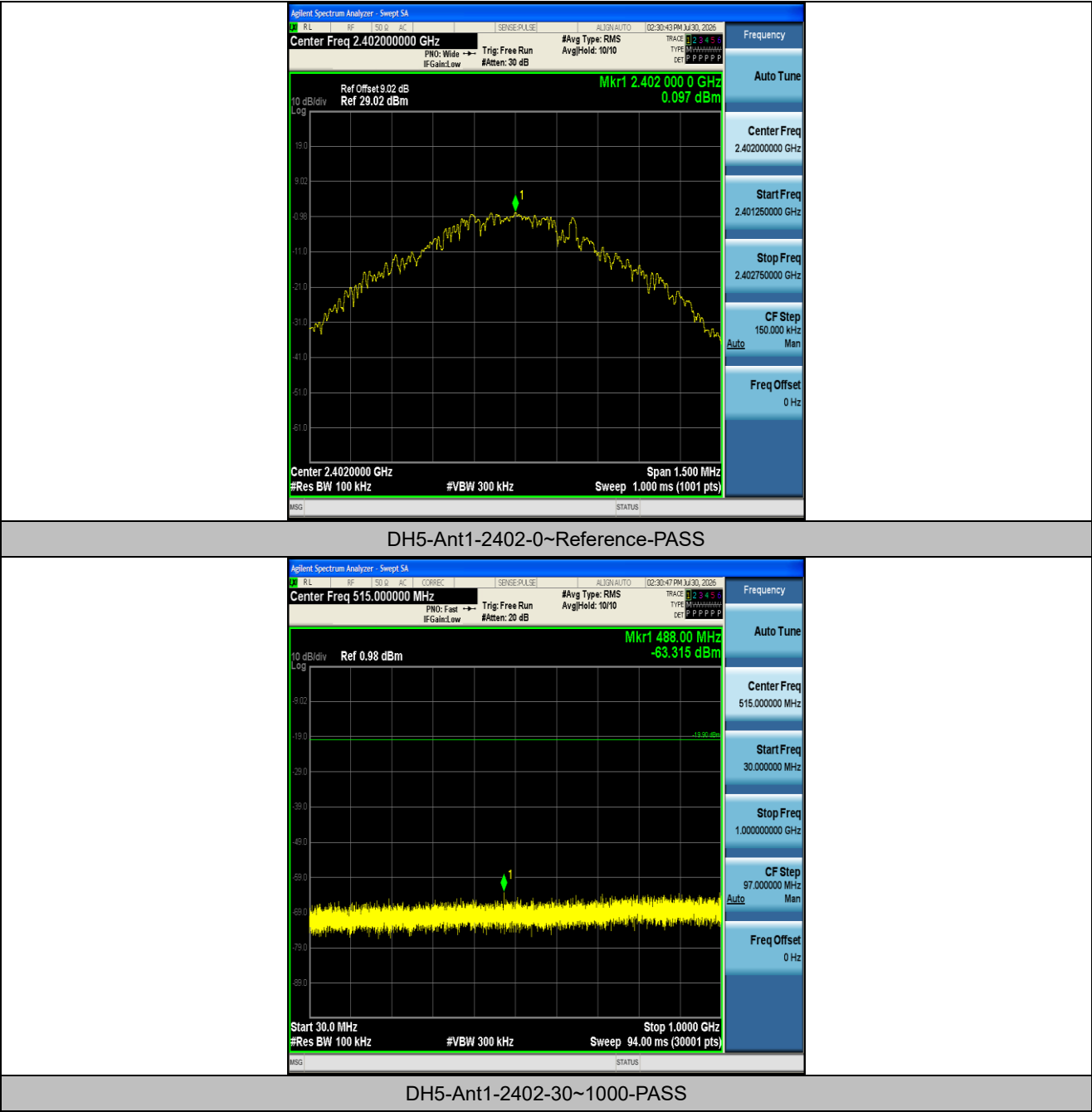
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	0.10	0.10	---	PASS
DH5	Ant1	2402	30~1000	0.10	-63.32	≤-19.9	PASS
DH5	Ant1	2402	1000~26500	0.10	-37.92	≤-19.9	PASS
DH5	Ant1	2441	0~Reference	0.99	0.99	---	PASS
DH5	Ant1	2441	30~1000	0.99	-63.05	≤-19.01	PASS
DH5	Ant1	2441	1000~26500	0.99	-37.72	≤-19.01	PASS
DH5	Ant1	2480	0~Reference	0.44	0.44	---	PASS
DH5	Ant1	2480	30~1000	0.44	-63.53	≤-19.56	PASS
DH5	Ant1	2480	1000~26500	0.44	-37.65	≤-19.56	PASS
2DH5	Ant1	2402	0~Reference	-4.39	-4.39	---	PASS
2DH5	Ant1	2402	30~1000	-4.39	-61.29	≤-24.39	PASS
2DH5	Ant1	2402	1000~26500	-4.39	-36.86	≤-24.39	PASS
2DH5	Ant1	2441	0~Reference	-7.50	-7.50	---	PASS
2DH5	Ant1	2441	30~1000	-7.50	-62.91	≤-27.5	PASS
2DH5	Ant1	2441	1000~26500	-7.50	-37.42	≤-27.5	PASS
2DH5	Ant1	2480	0~Reference	-2.85	-2.85	---	PASS
2DH5	Ant1	2480	30~1000	-2.85	-62.46	≤-22.85	PASS
2DH5	Ant1	2480	1000~26500	-2.85	-37.89	≤-22.85	PASS
3DH5	Ant1	2402	0~Reference	-4.71	-4.71	---	PASS
3DH5	Ant1	2402	30~1000	-4.71	-63.36	≤-24.71	PASS
3DH5	Ant1	2402	1000~26500	-4.71	-37.19	≤-24.71	PASS
3DH5	Ant1	2441	0~Reference	-2.26	-2.26	---	PASS
3DH5	Ant1	2441	30~1000	-2.26	-62.98	≤-22.26	PASS
3DH5	Ant1	2441	1000~26500	-2.26	-37.39	≤-22.26	PASS
3DH5	Ant1	2480	0~Reference	-2.17	-2.17	---	PASS
3DH5	Ant1	2480	30~1000	-2.17	-61.4	≤-22.17	PASS
3DH5	Ant1	2480	1000~26500	-2.17	-37.5	≤-22.17	PASS

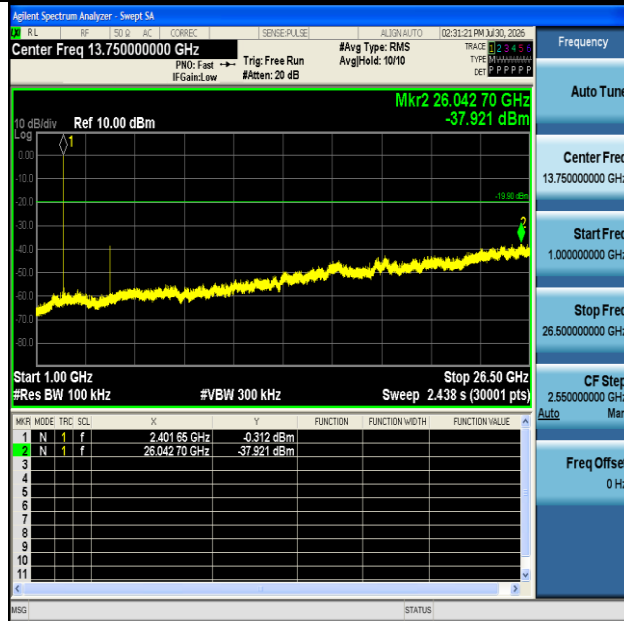
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.





Test Graphs



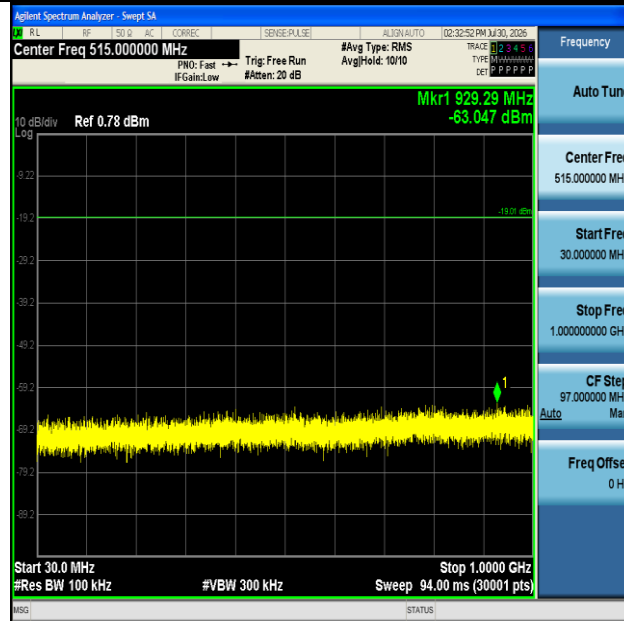


DH5-Ant1-2402-1000~26500-PASS

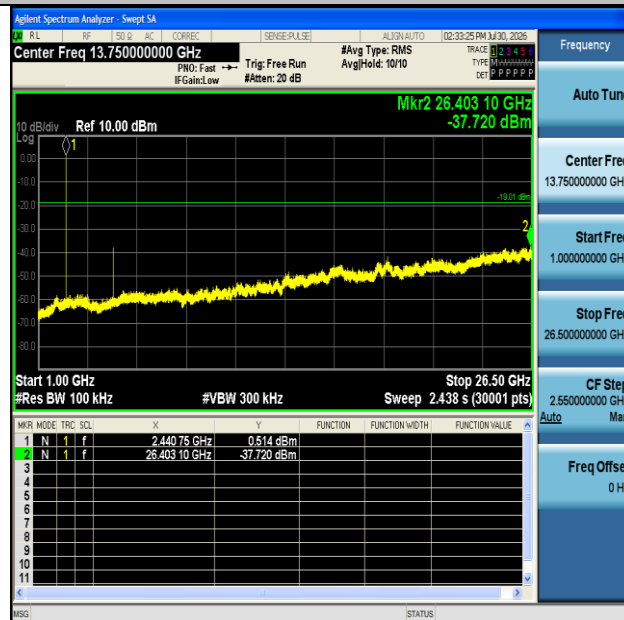


DH5-Ant1-2441-0~Reference-PASS



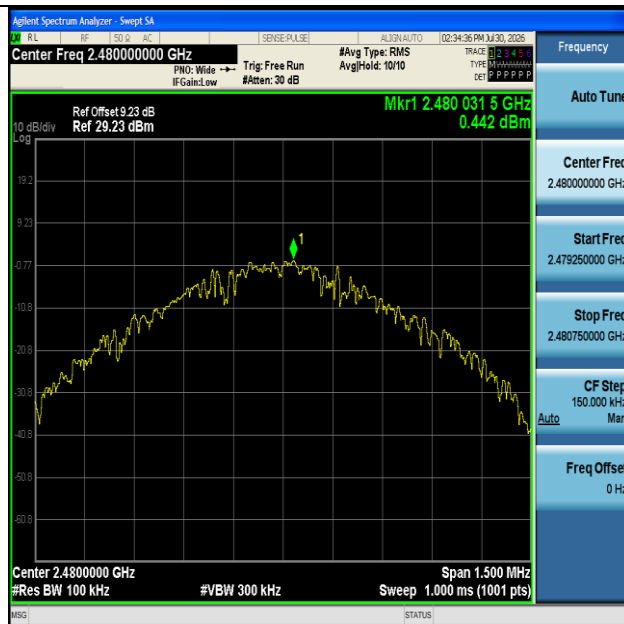


DH5-Ant1-2441-30~1000-PASS

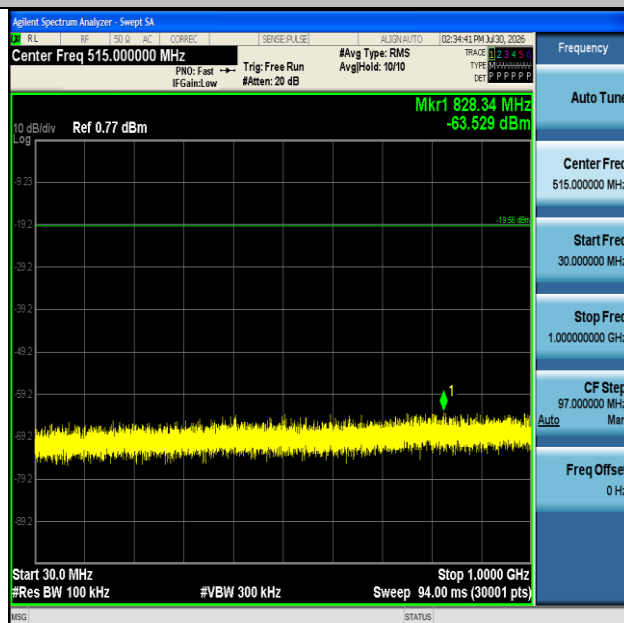


DH5-Ant1-2441-1000~26500-PASS



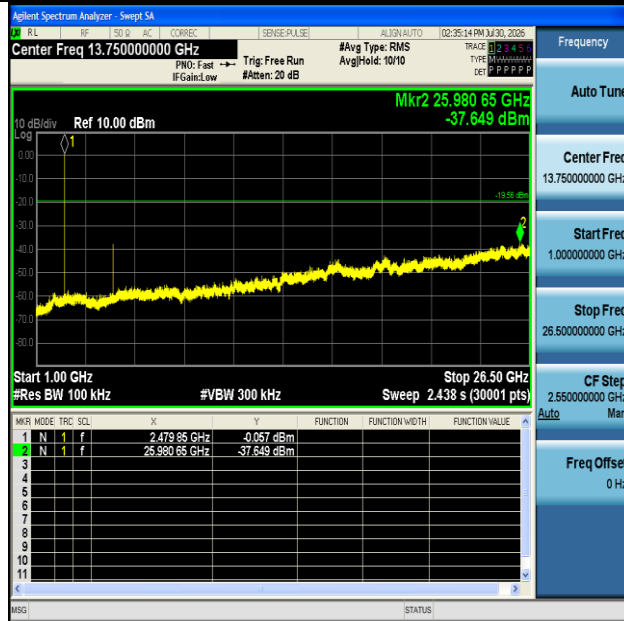


DH5-Ant1-2480-0~Reference-PASS



DH5-Ant1-2480-30~1000-PASS





DH5-Ant1-2480-1000~26500-PASS

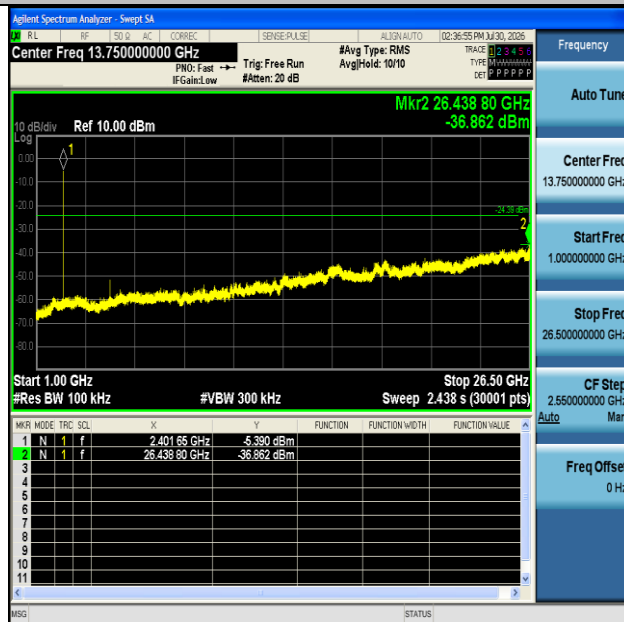


2DH5-Ant1-2402-0~Reference-PASS



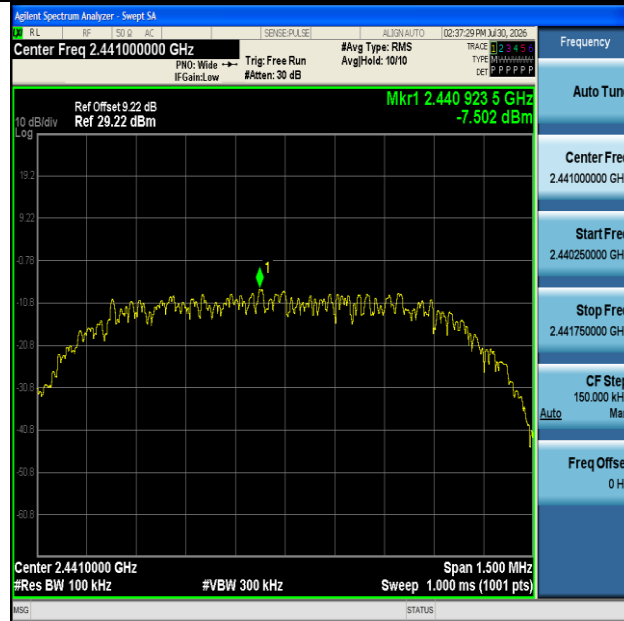


2DH5-Ant1-2402-30~1000-PASS



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



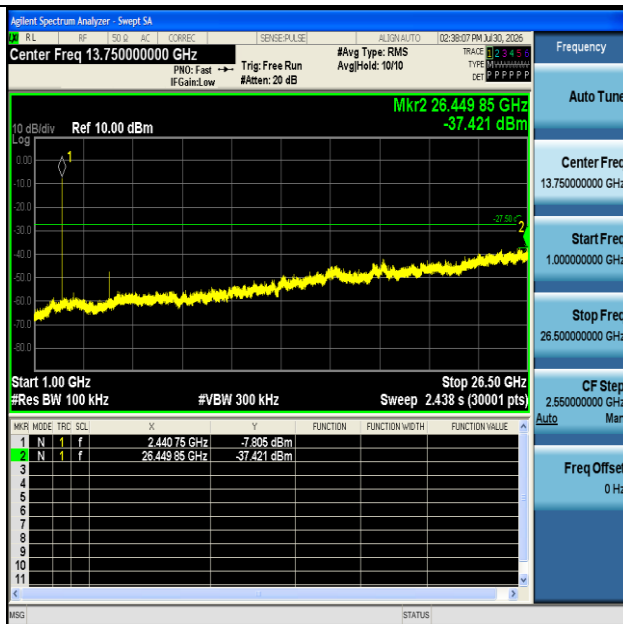


2DH5-Ant1-2441-0~Reference-PASS

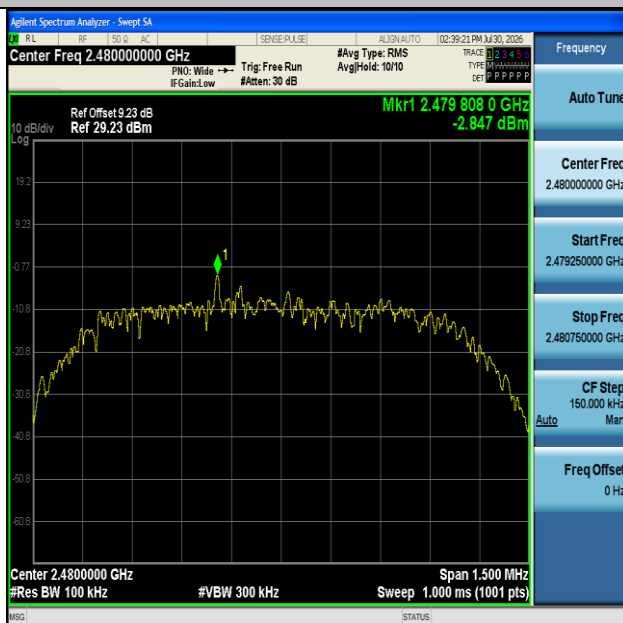


2DH5-Ant1-2441-30~1000-PASS



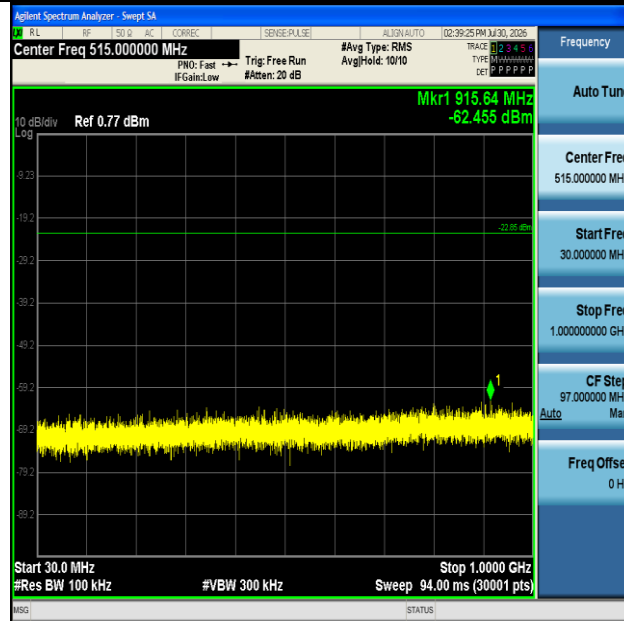


2DH5-Ant1-2441-1000~26500-PASS

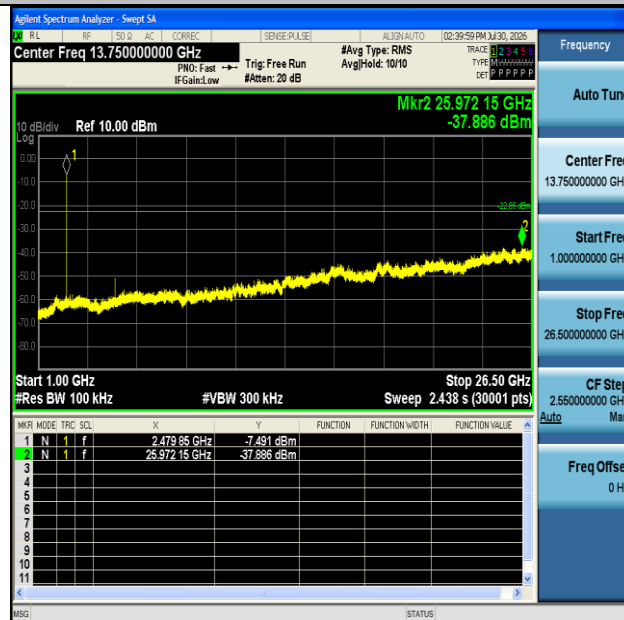


2DH5-Ant1-2480-0~Reference-PASS



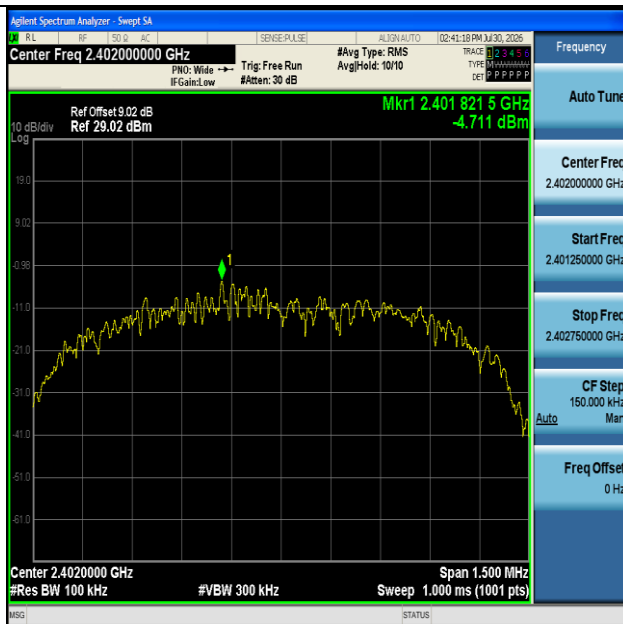


2DH5-Ant1-2480-30~1000-PASS

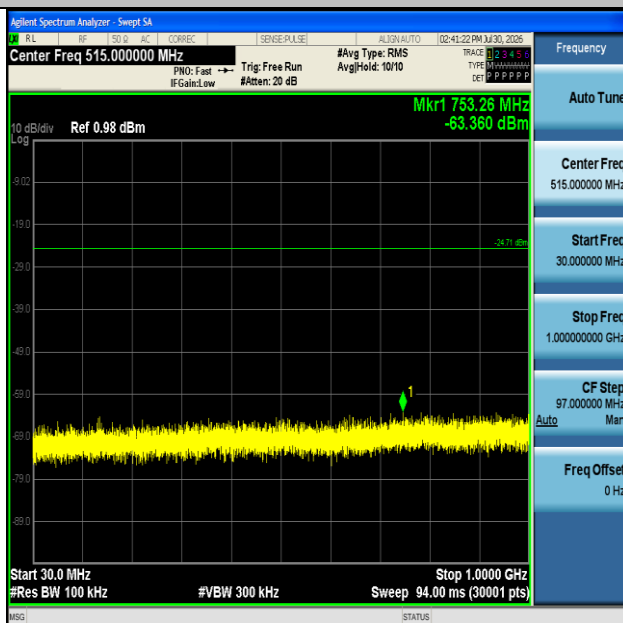


2DH5-Ant1-2480-1000~26500-PASS



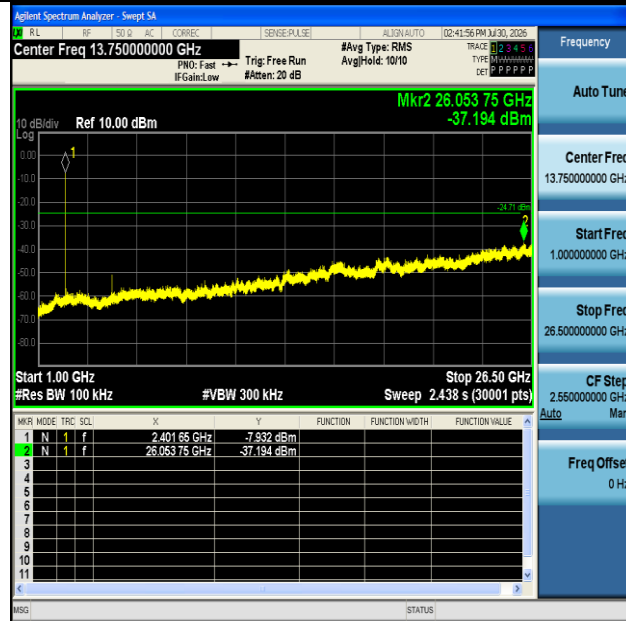


3DH5-Ant1-2402-0~Reference-PASS



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



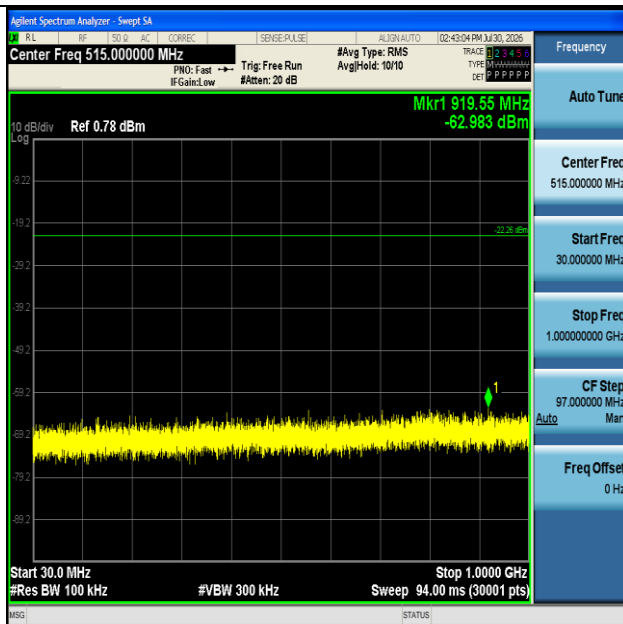


3DH5-Ant1-2402-1000~26500-PASS

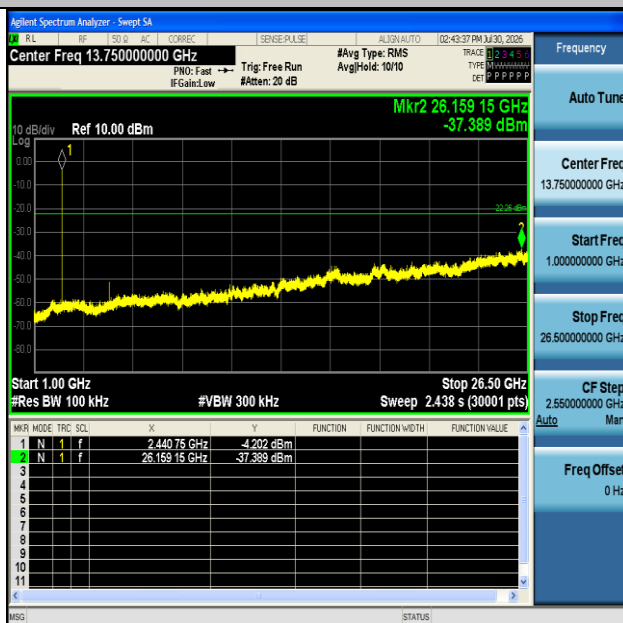


3DH5-Ant1-2441-0~Reference-PASS





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

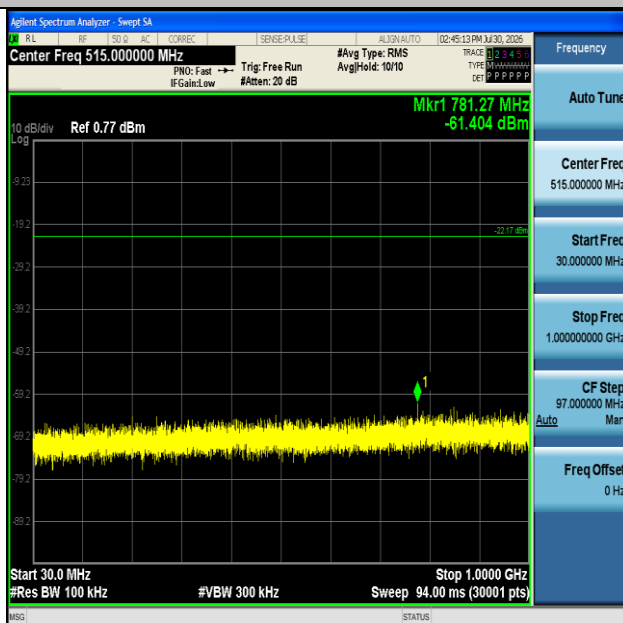


3DH5-Ant1-2441-1000~26500-PASS



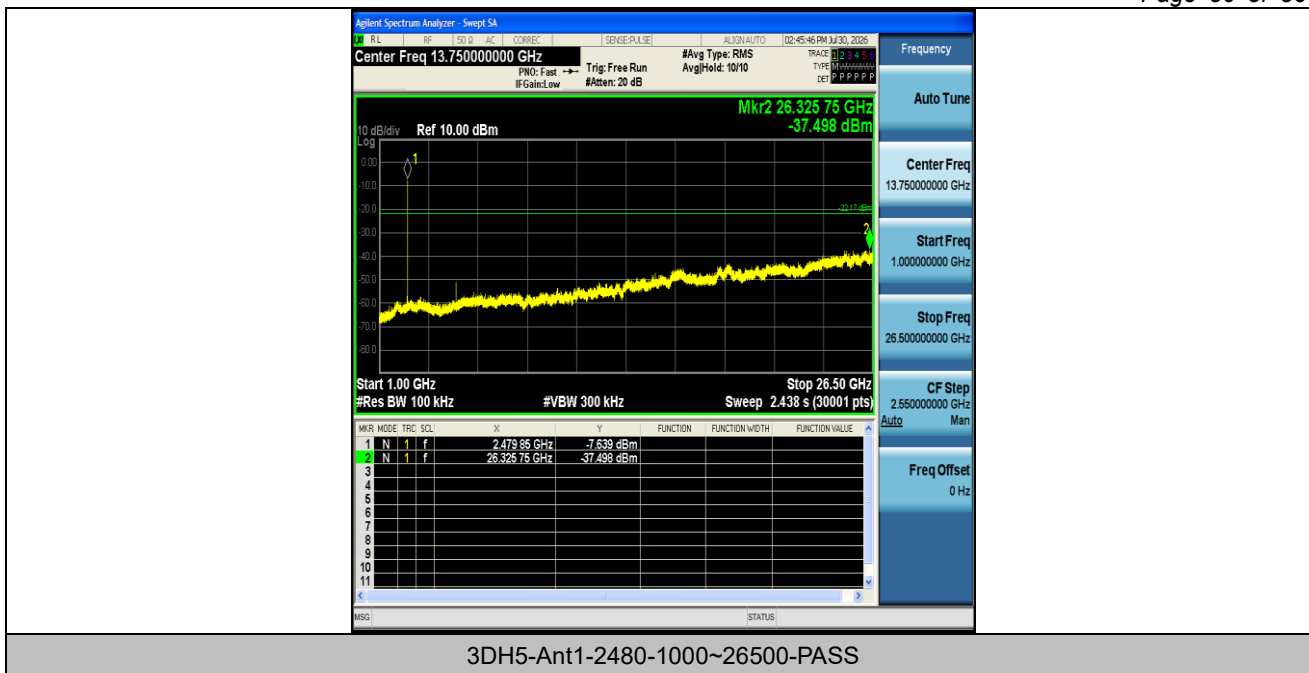


3DH5-Ant1-2480-0~Reference-PASS



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







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	2.90	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	2.90	3.75	77.33	1.12
3DH5	Ant1	2441	2.88	3.74	77.01	1.13
3DH5	Ant1	2480	2.89	3.75	77.07	1.13

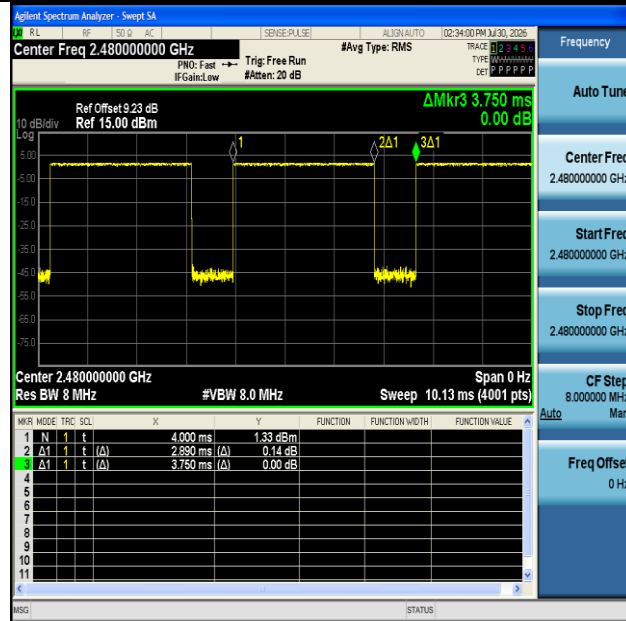
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



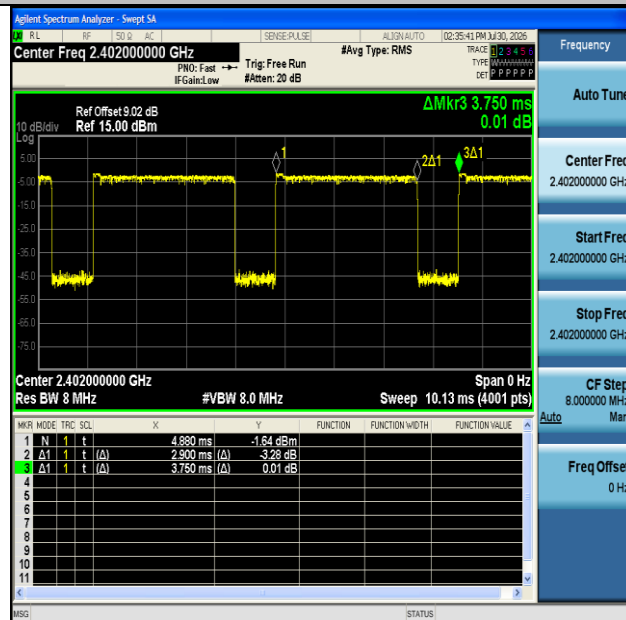


Test Graphs



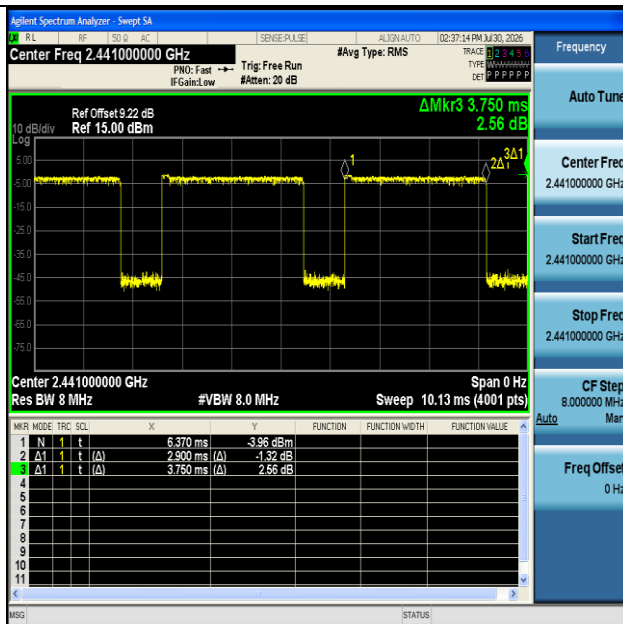


NTNV-DH5-Ant1-2480

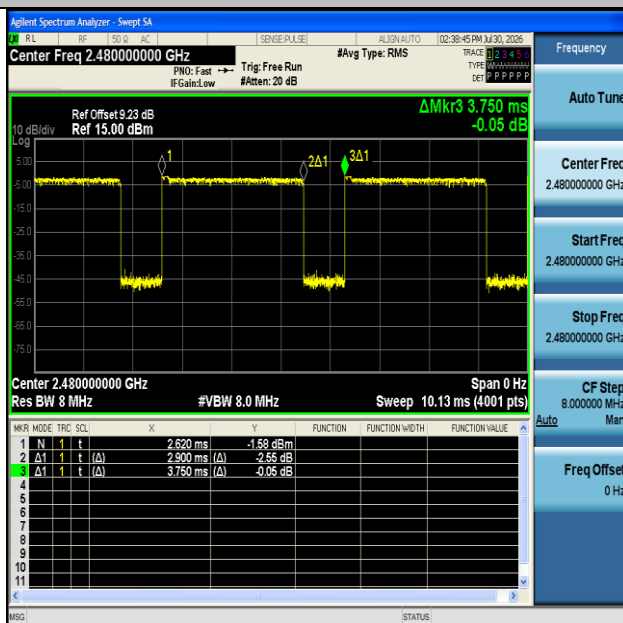


NTNV-2DH5-Ant1-2402



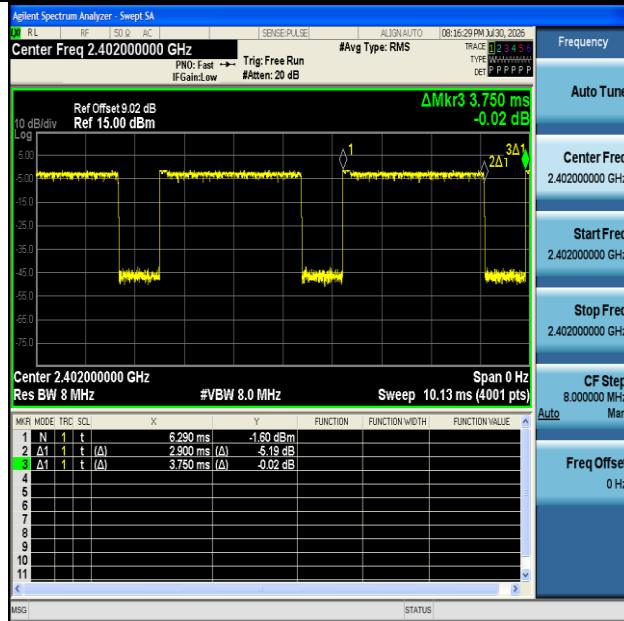


NTNV-2DH5-Ant1-2441

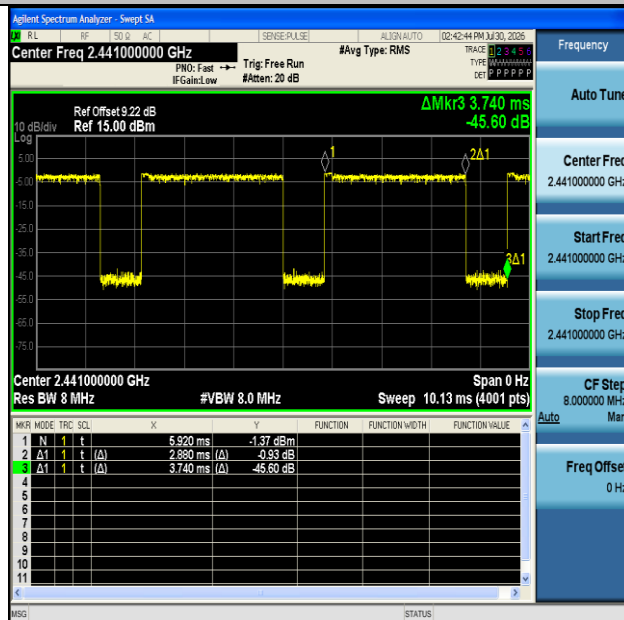


NTNV-2DH5-Ant1-2480



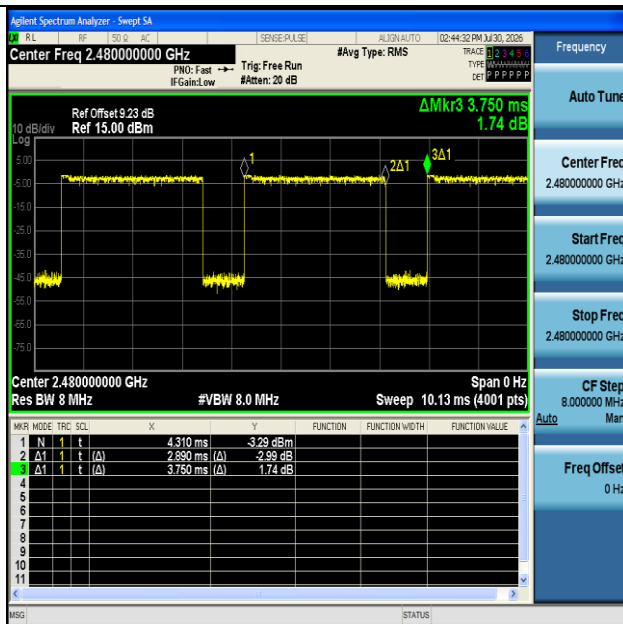


NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441





NTNV-3DH5-Ant1-2480

