

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

Product Name: Wireless Earbuds
Trade Mark: LOGIC, UNONU, ISWAG
Test Model: LOGIC TG2
FCC ID: O55TG22924

Environmental Conditions

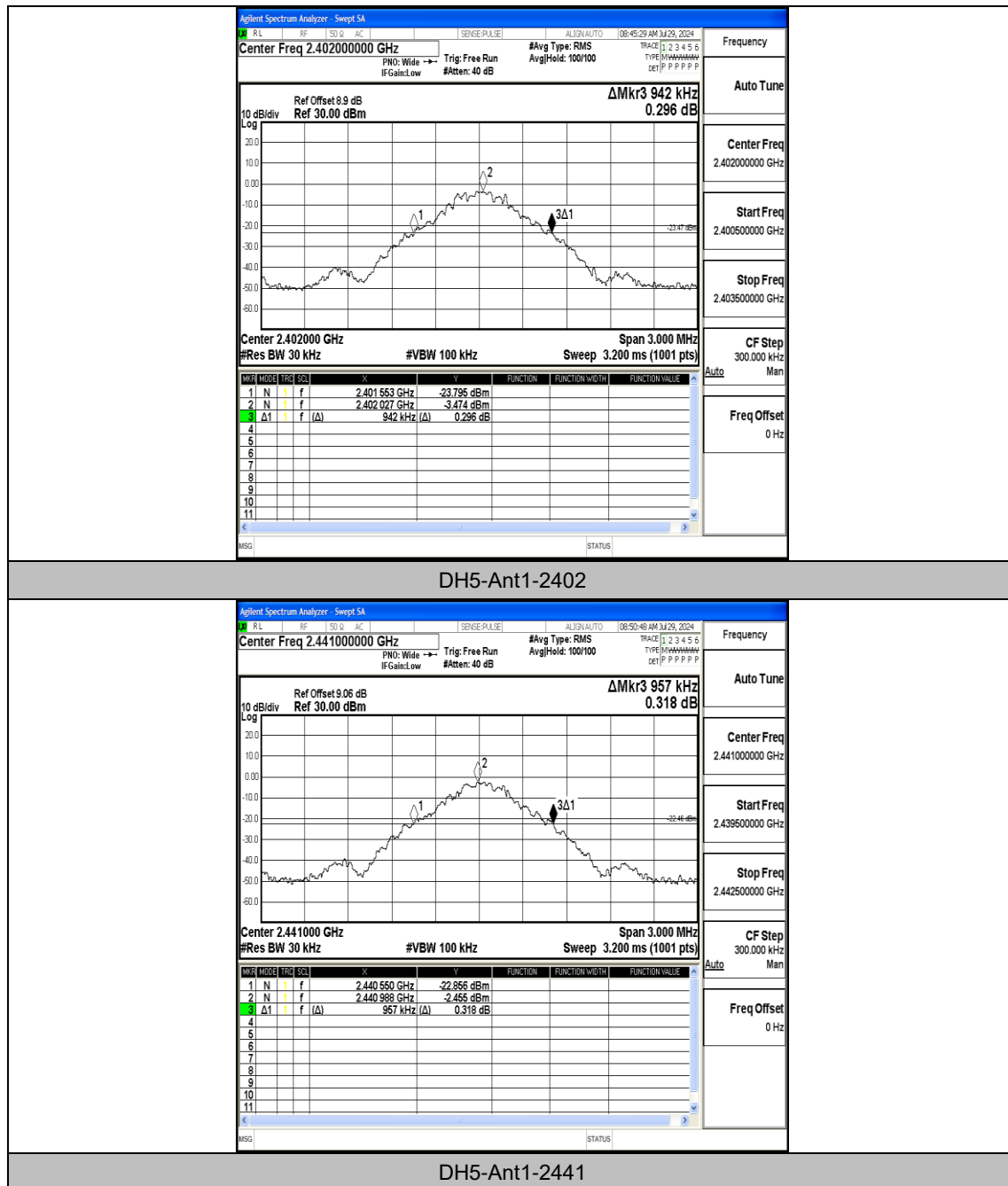
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

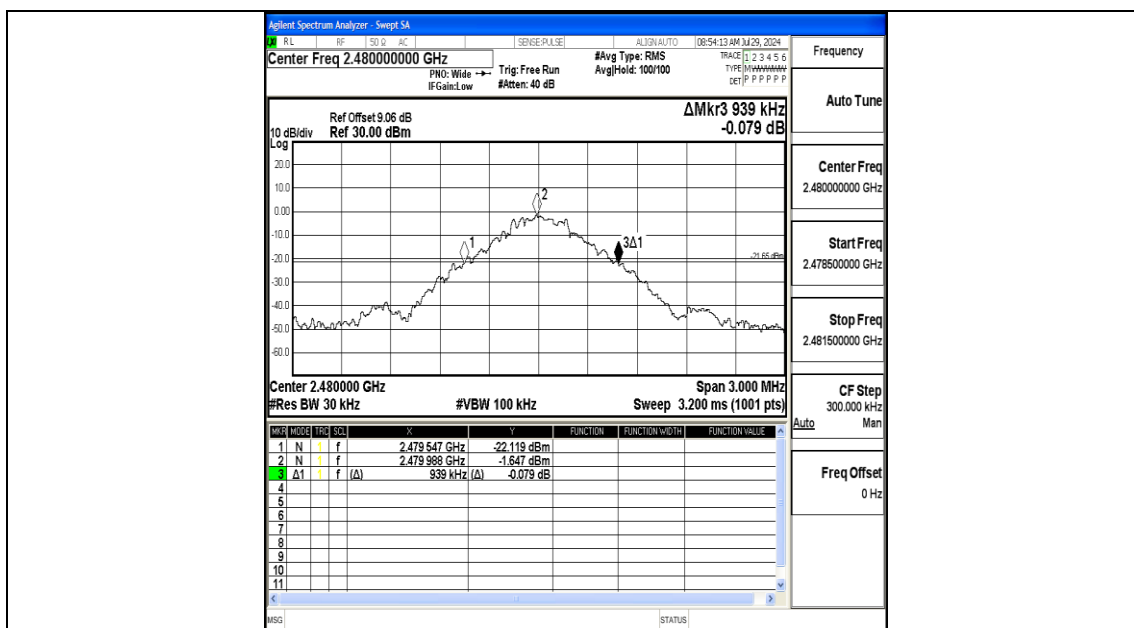
Appendix A: 20dB Emission Bandwidth

Test Result

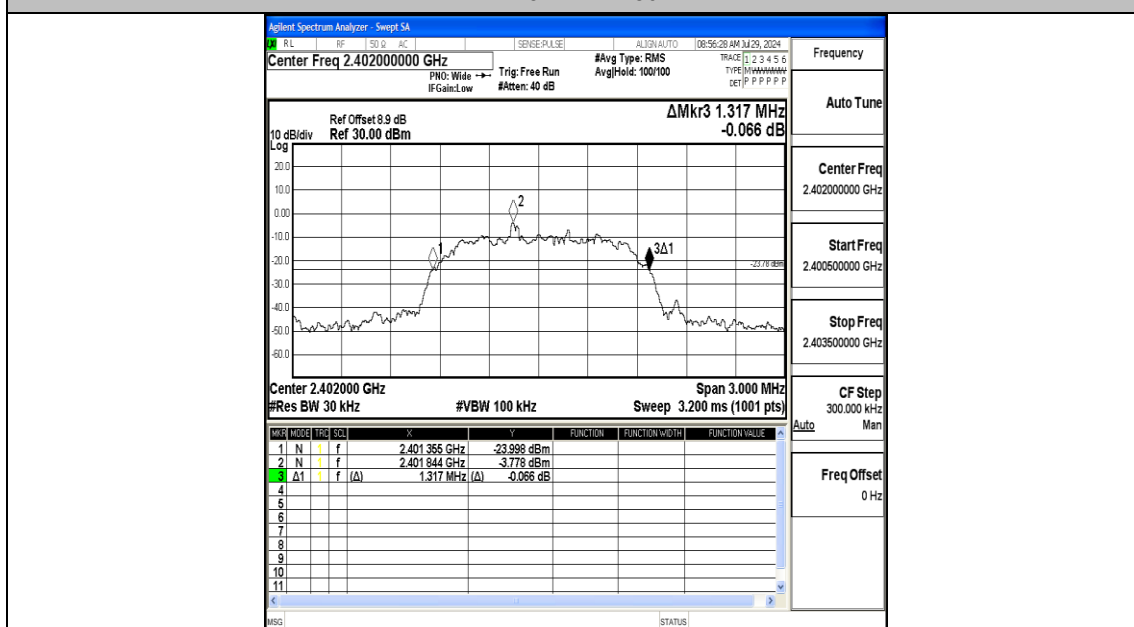
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.942	2401.553	2402.495	---	---
DH5	Ant1	2441	0.957	2440.550	2441.507	---	---
DH5	Ant1	2480	0.939	2479.547	2480.486	---	---
2DH5	Ant1	2402	1.317	2401.355	2402.672	---	---
2DH5	Ant1	2441	1.314	2440.355	2441.669	---	---
2DH5	Ant1	2480	1.317	2479.355	2480.672	---	---

Test Graphs

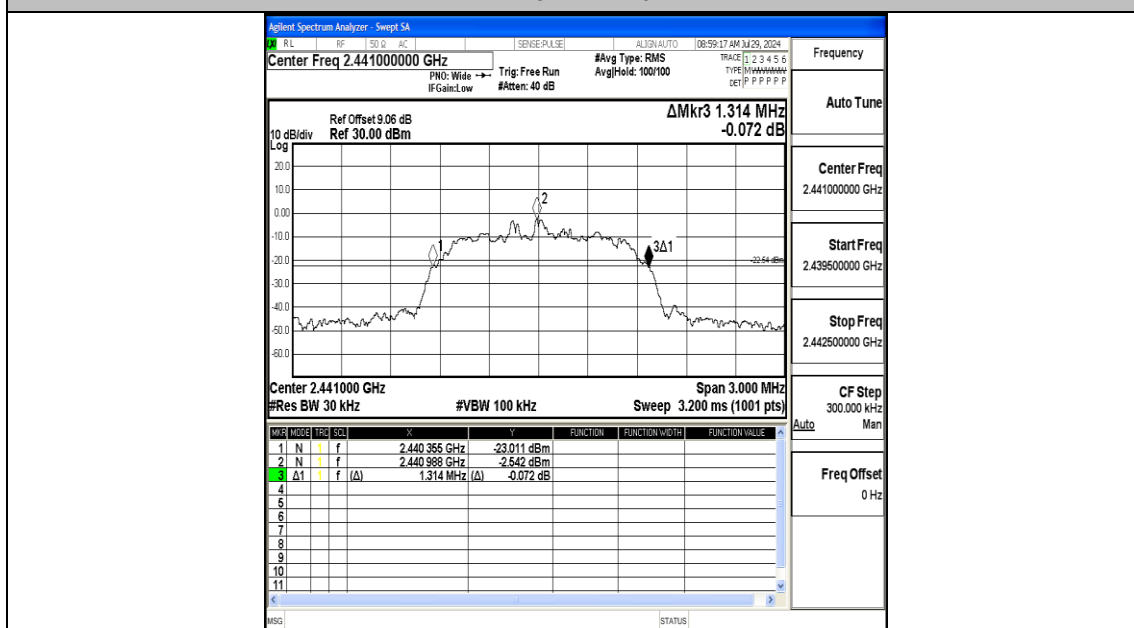




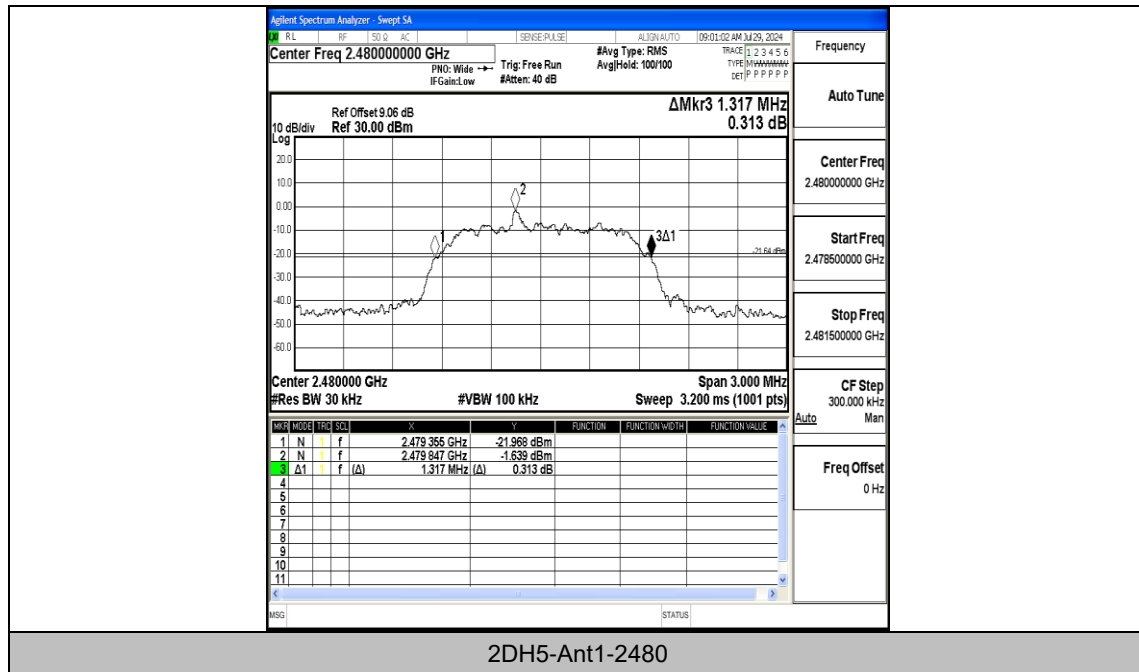
DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441

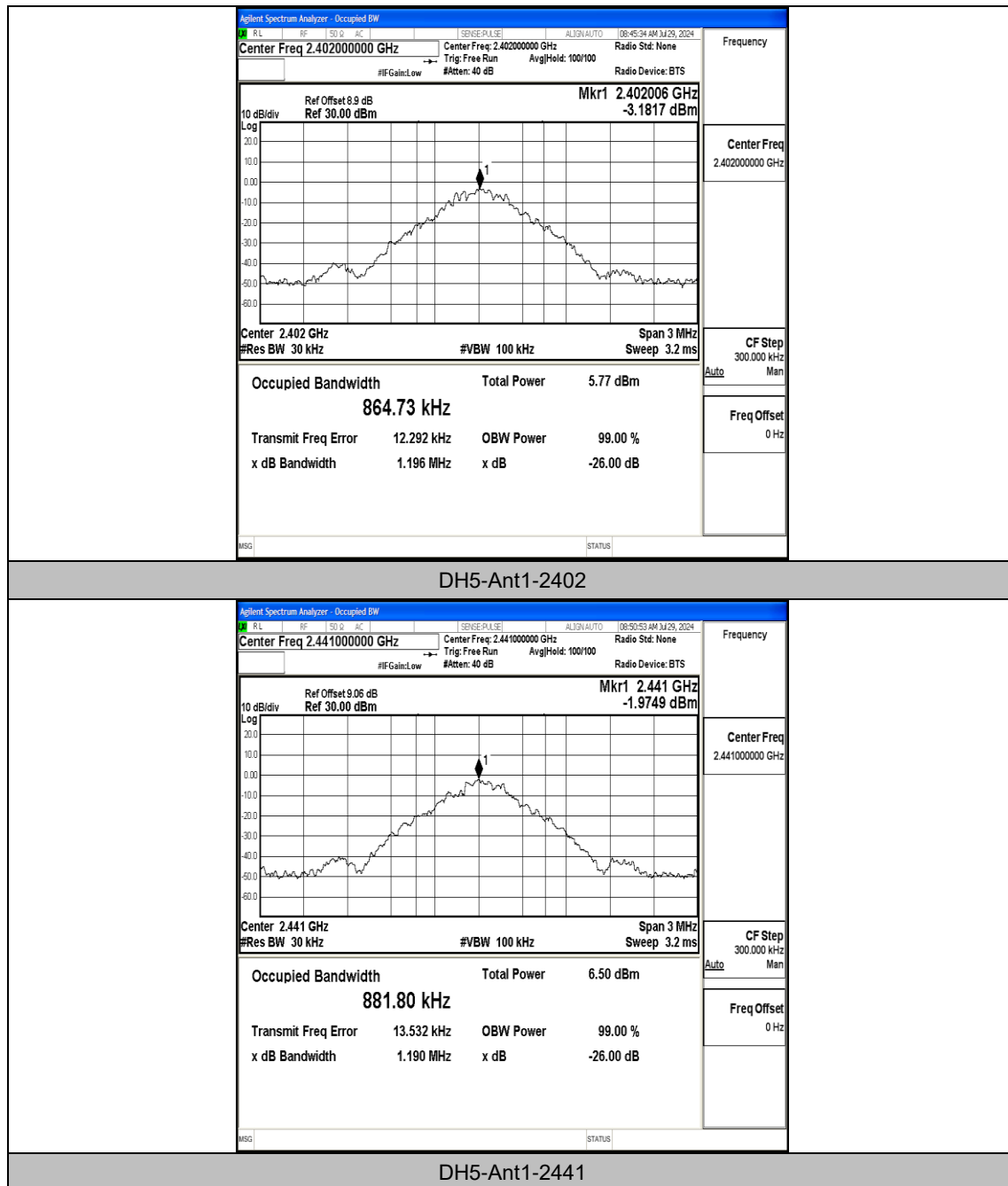


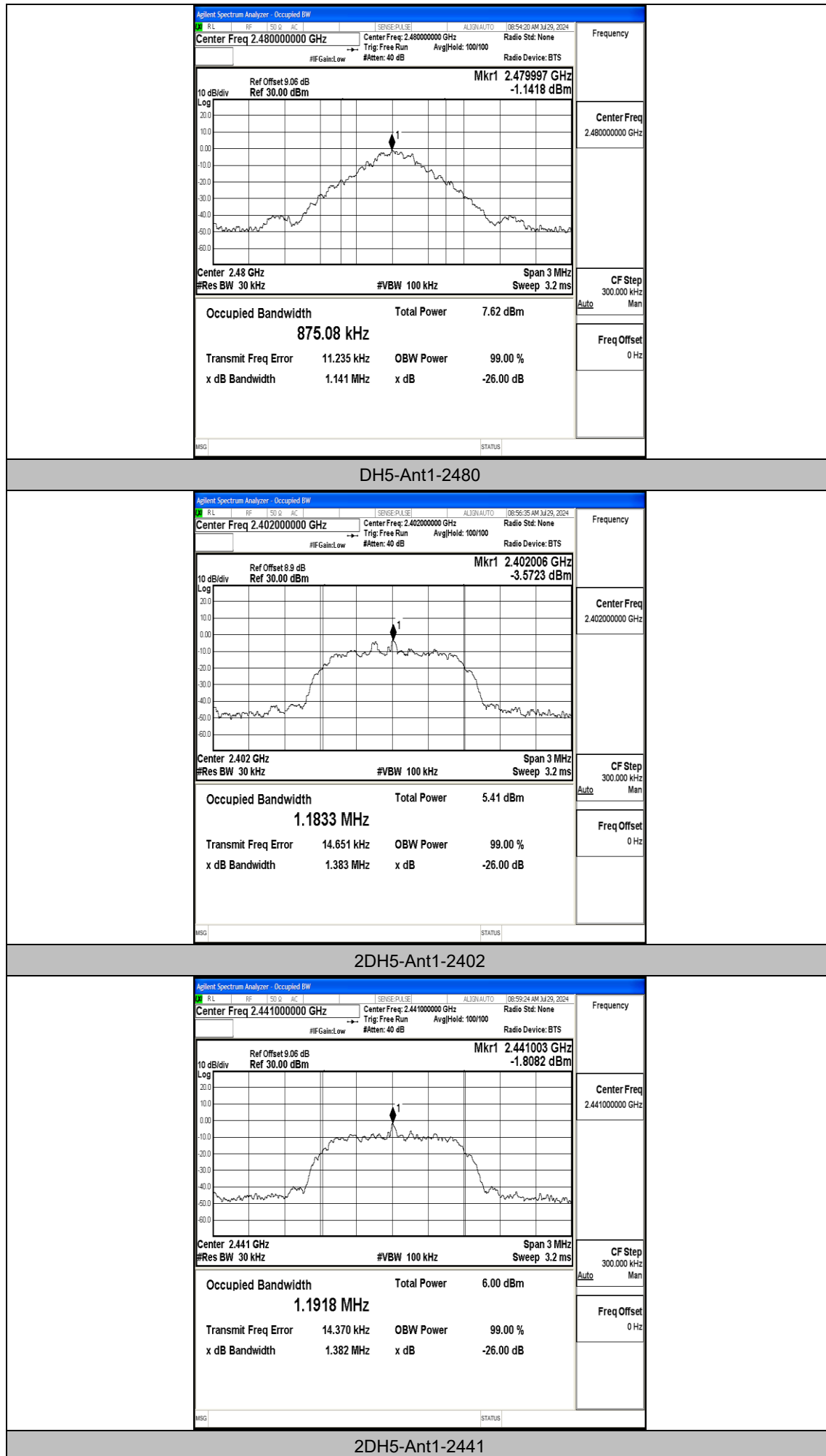
Appendix B: Occupied Channel Bandwidth

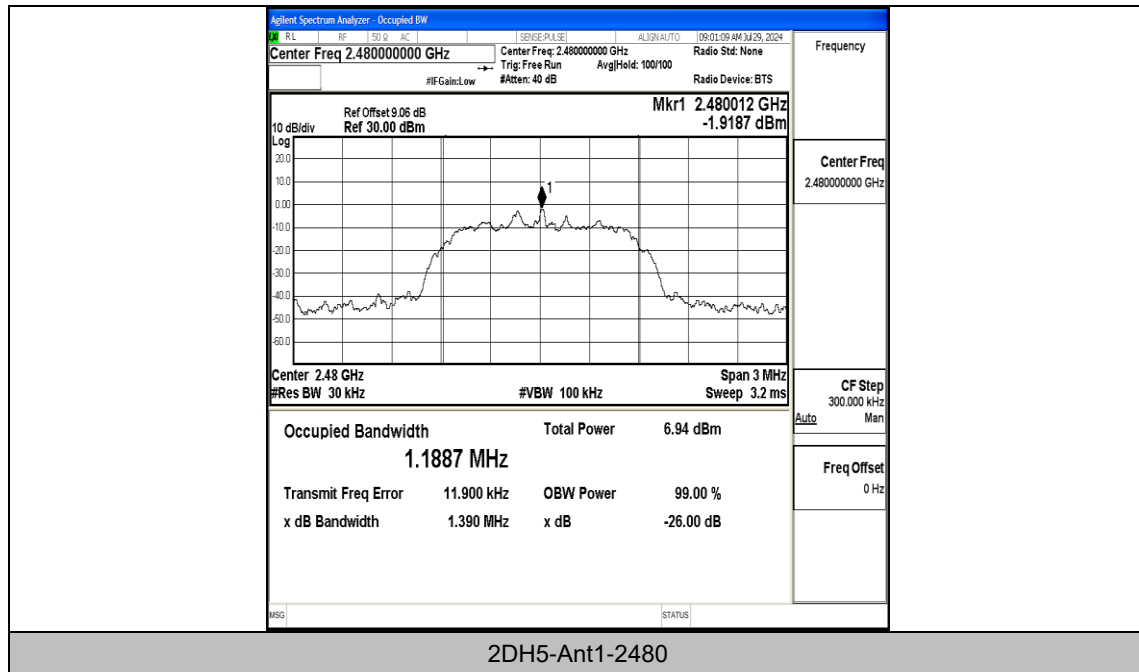
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86473	2401.5799	2402.4447	---	---
DH5	Ant1	2441	0.88180	2440.5726	2441.4544	---	---
DH5	Ant1	2480	0.87508	2479.5737	2480.4488	---	---
2DH5	Ant1	2402	1.1833	2401.4230	2402.6063	---	---
2DH5	Ant1	2441	1.1918	2440.4185	2441.6103	---	---
2DH5	Ant1	2480	1.1887	2479.4176	2480.6063	---	---

Test Graphs





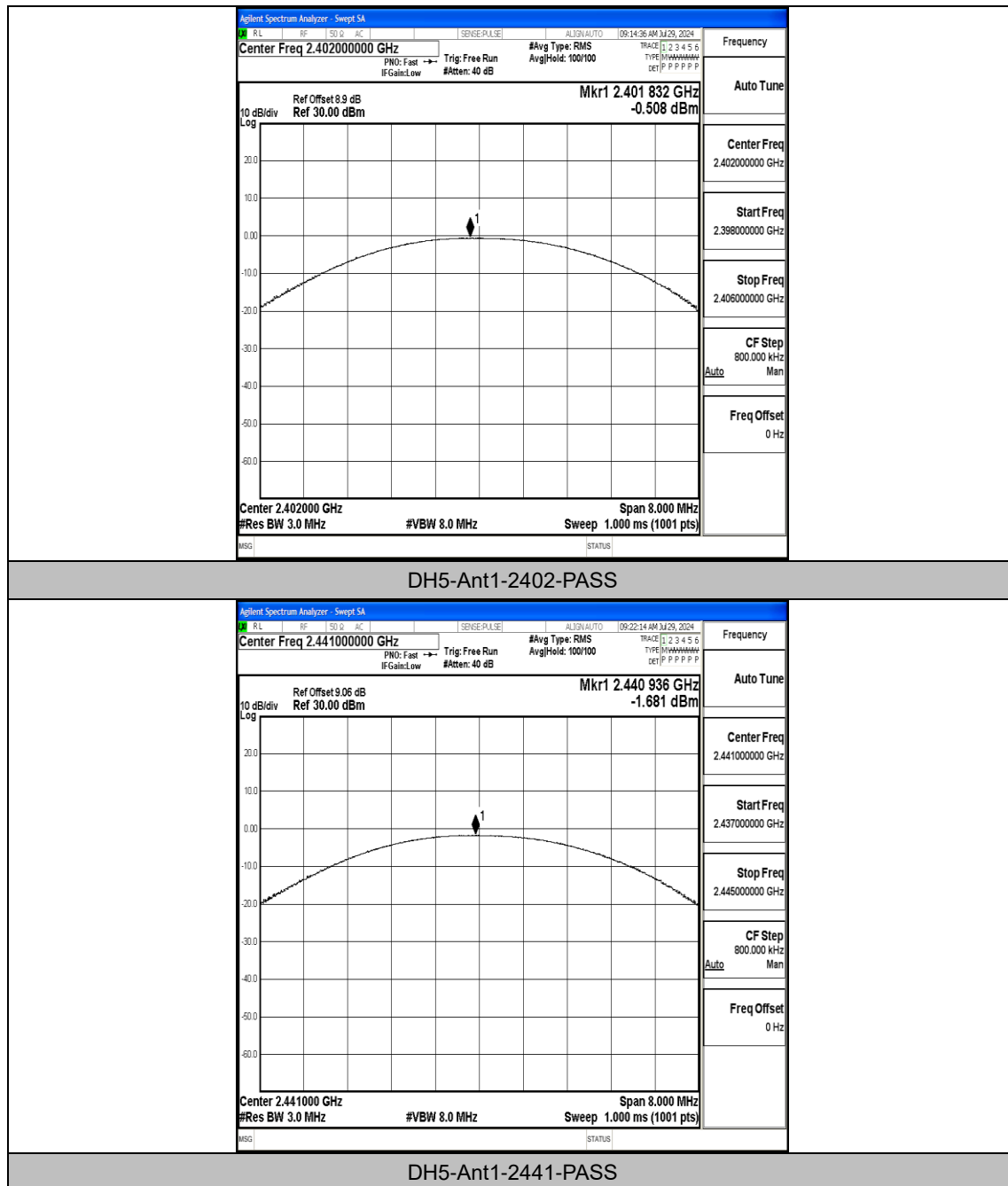


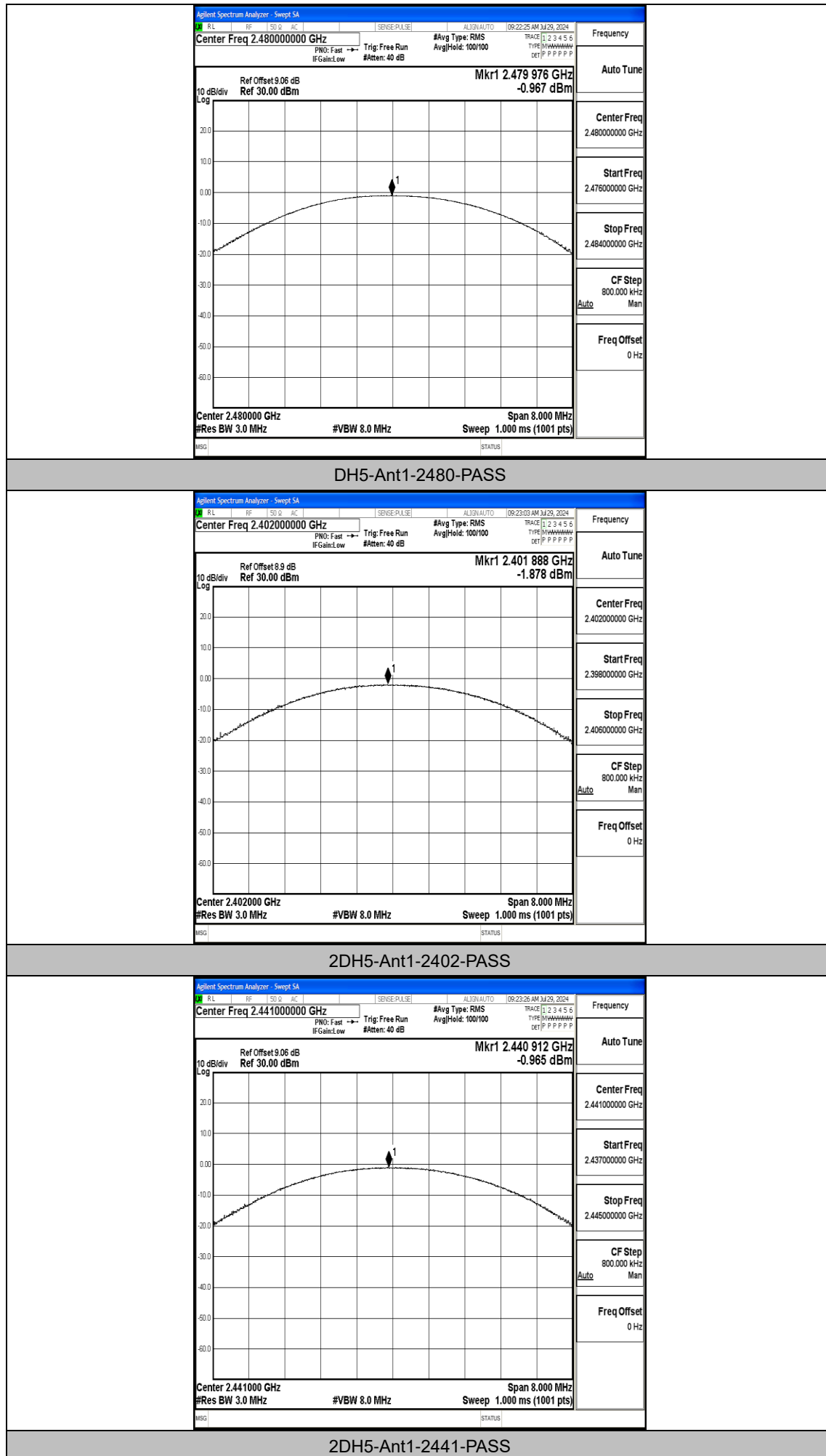
Appendix C: Maximum peak conducted output power

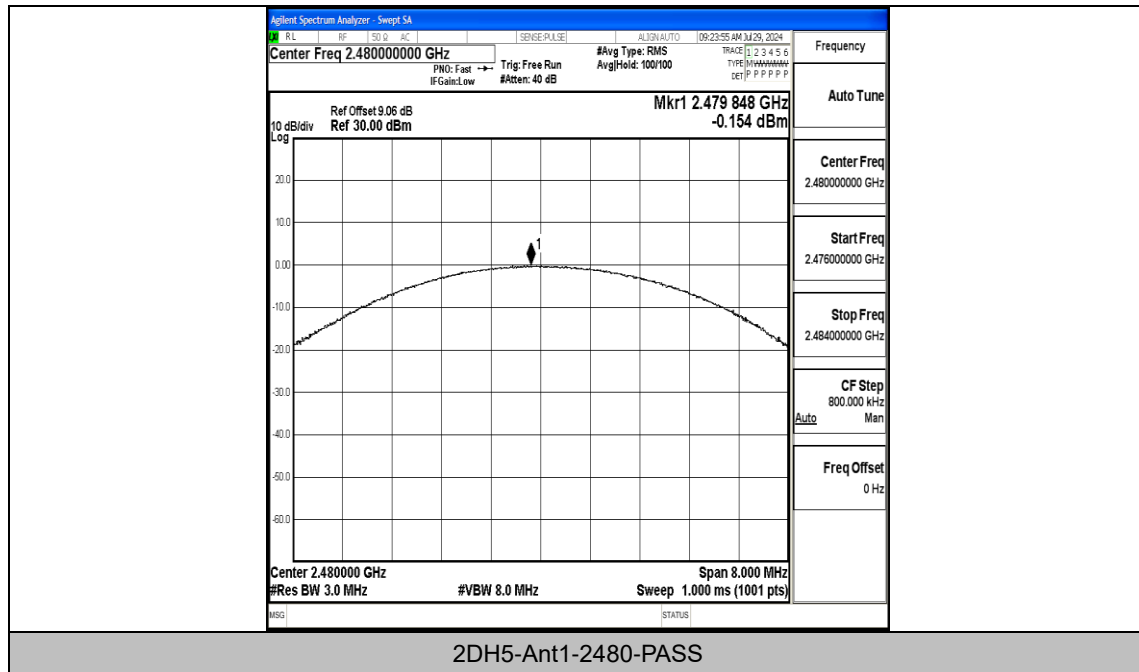
Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.51	≤30	PASS
DH5	Ant1	2441	-1.68	≤30	PASS
DH5	Ant1	2480	-0.97	≤30	PASS
2DH5	Ant1	2402	-1.88	≤20.97	PASS
2DH5	Ant1	2441	-0.97	≤20.97	PASS
2DH5	Ant1	2480	-0.15	≤20.97	PASS

Test Graphs





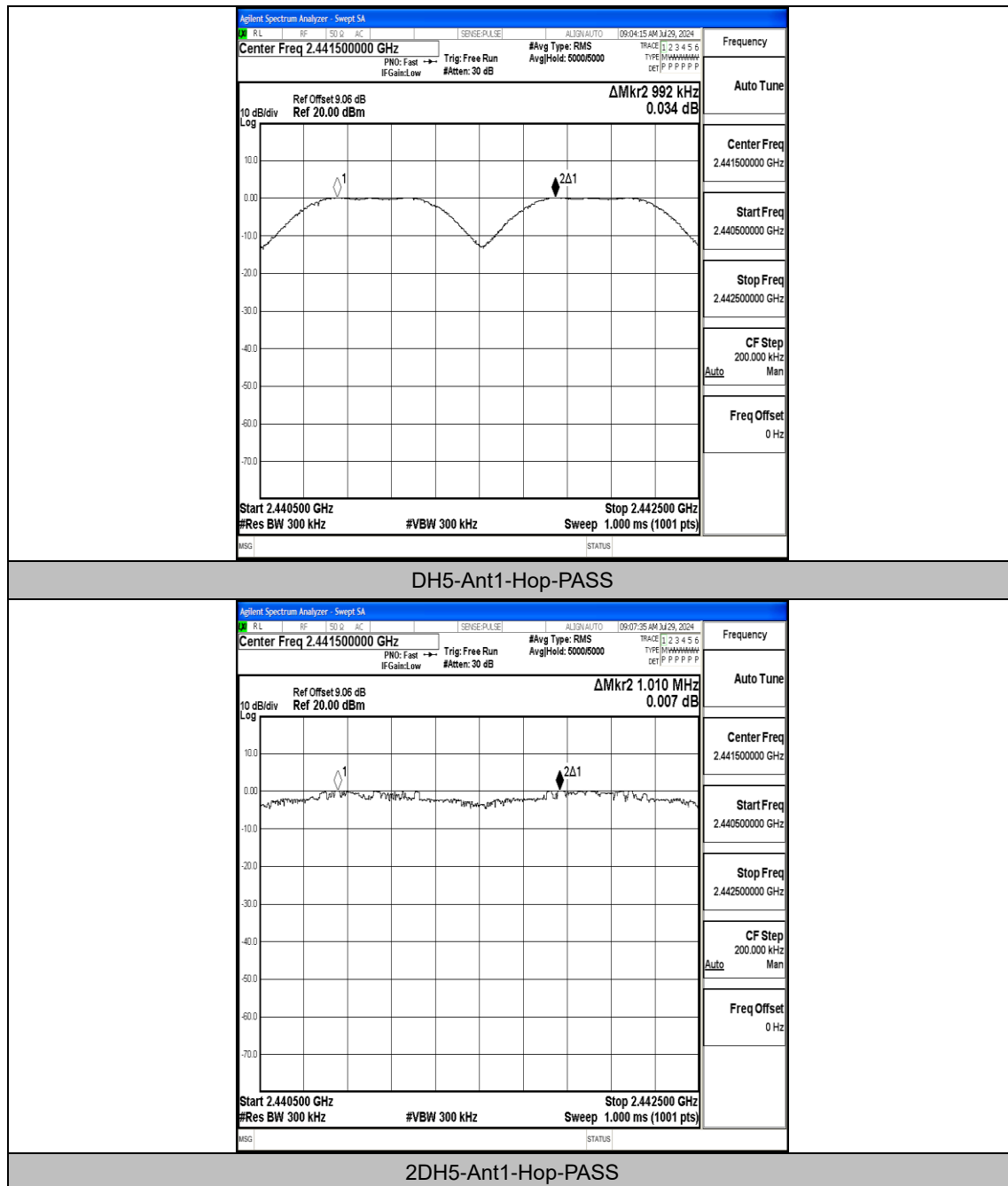


Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.992	≥ 0.957	PASS
2DH5	Ant1	Hop	1.01	≥ 0.878	PASS

Test Graphs

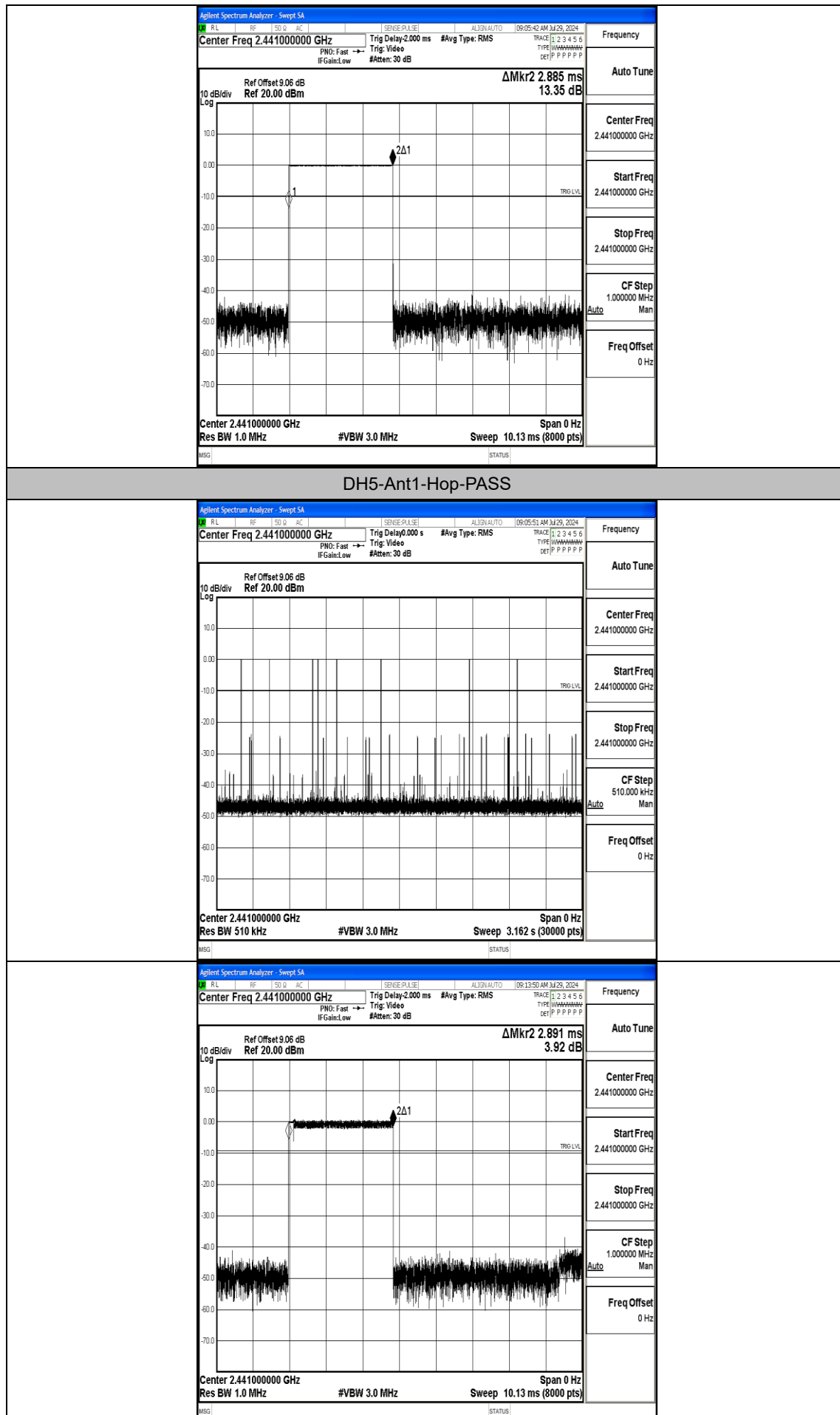


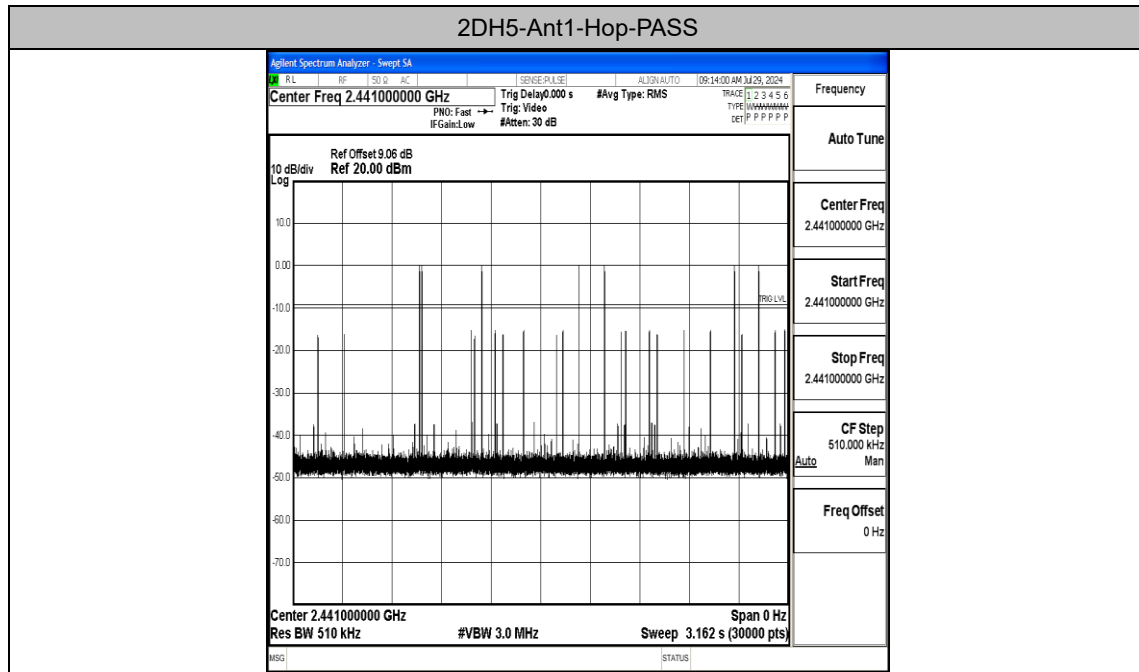
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.885	90	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.891	80	0.231	≤0.4	PASS

Test Graphs



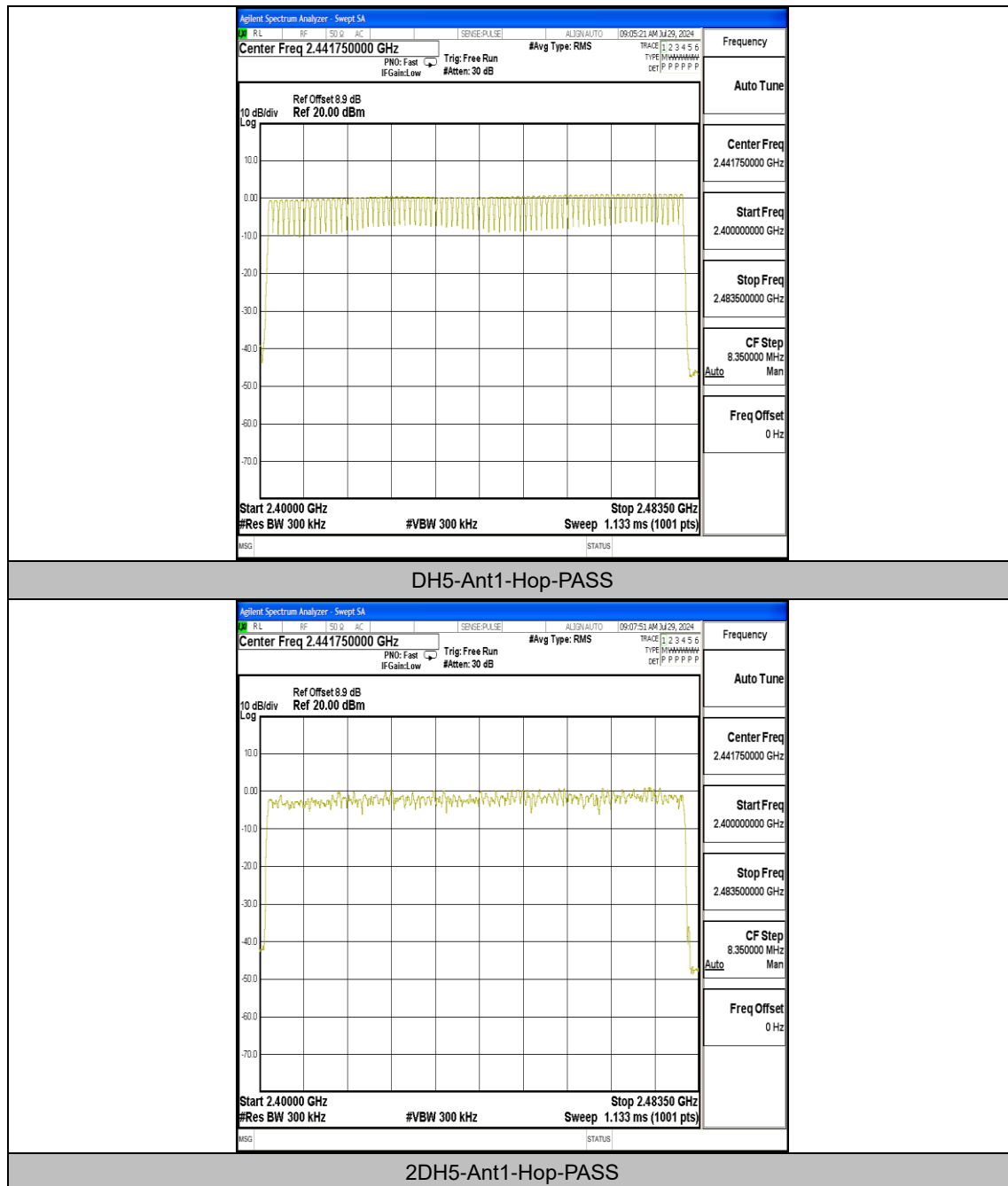


Appendix F: Number of hopping channels

Test Result

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

Test Graphs

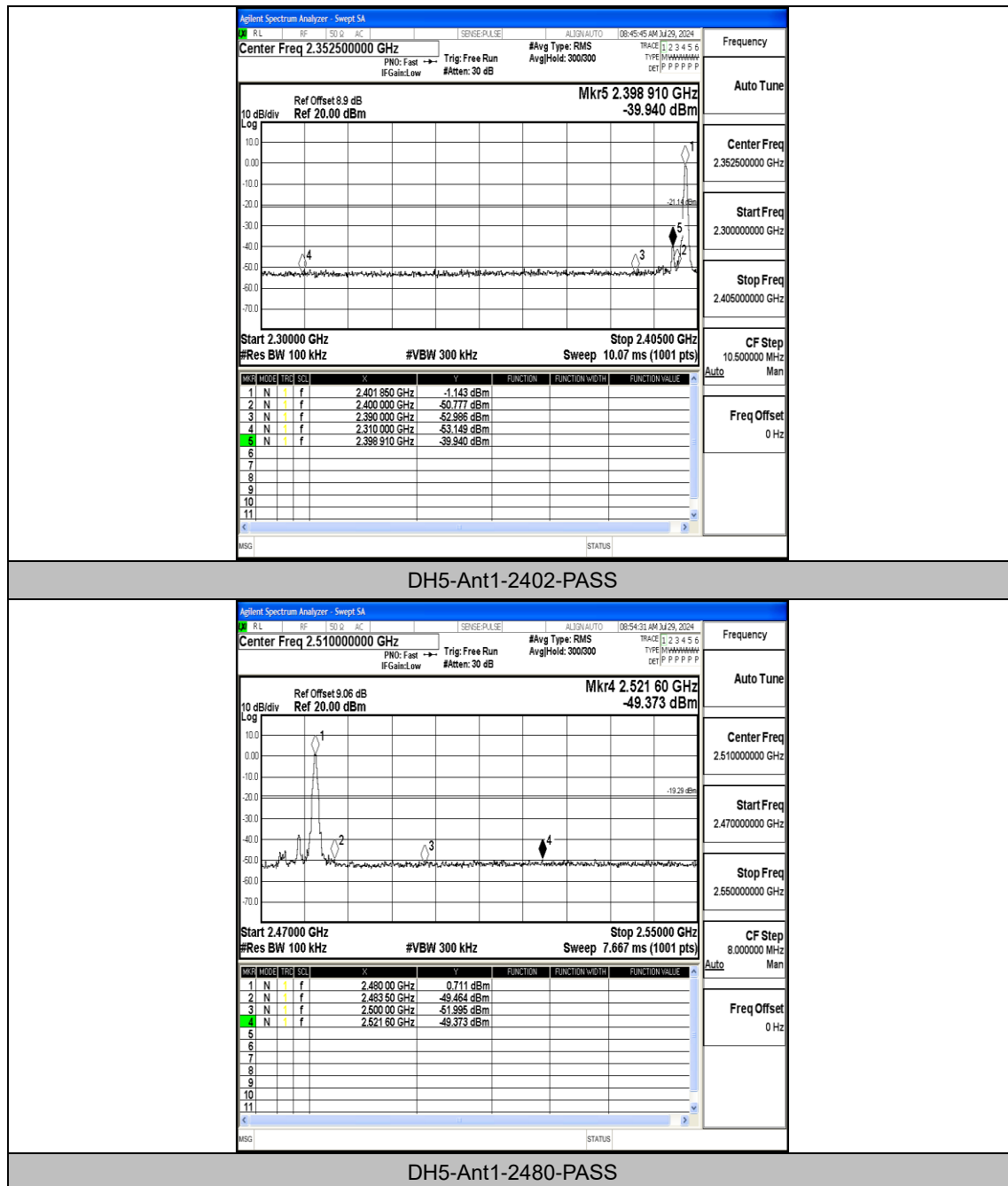


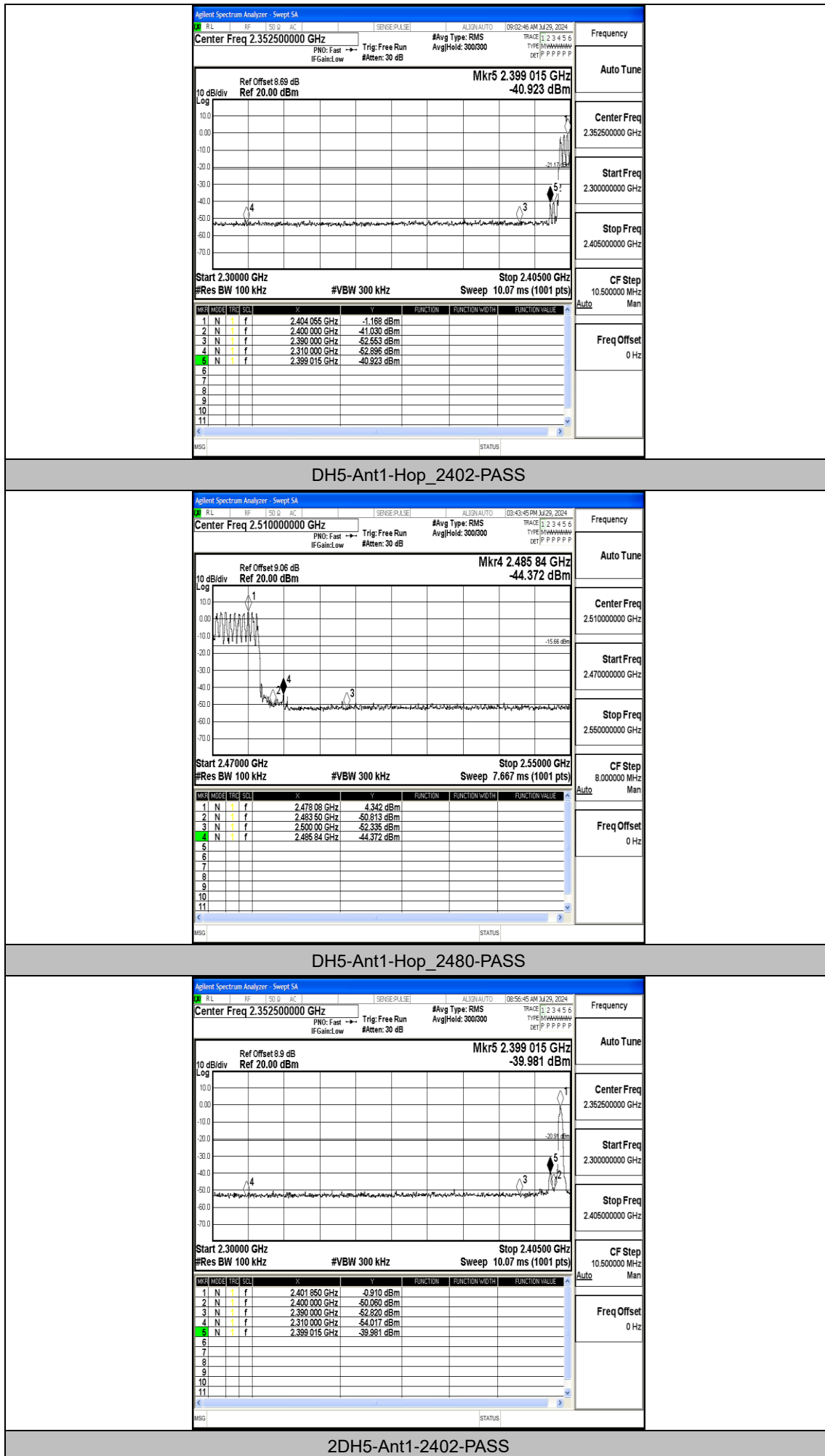
Appendix G: Band edge measurements

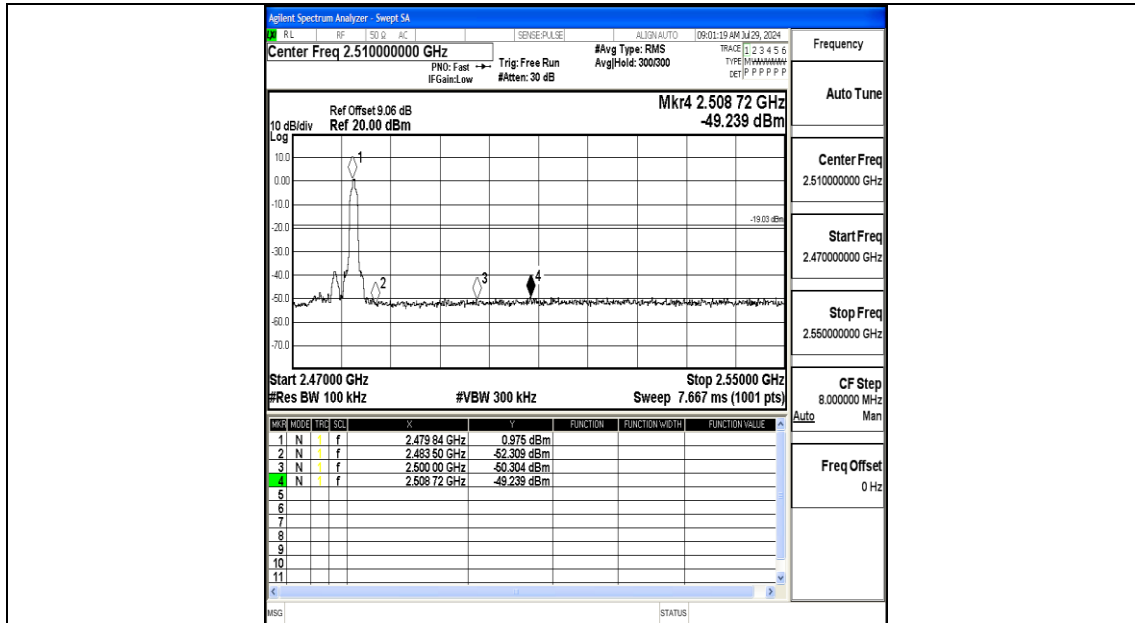
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.14	-39.94	≤-21.14	PASS
DH5	Ant1	High	2480	0.71	-49.37	≤-19.29	PASS
DH5	Ant1	Low	Hop_2402	-1.17	-40.92	≤-21.17	PASS
DH5	Ant1	High	Hop_2480	4.34	-44.37	≤-15.66	PASS
2DH5	Ant1	Low	2402	-0.91	-39.98	≤-20.91	PASS
2DH5	Ant1	High	2480	0.98	-49.24	≤-19.03	PASS
2DH5	Ant1	Low	Hop_2402	-4.65	-40.74	≤-24.65	PASS
2DH5	Ant1	High	Hop_2480	-1.26	-48.65	≤-21.26	PASS

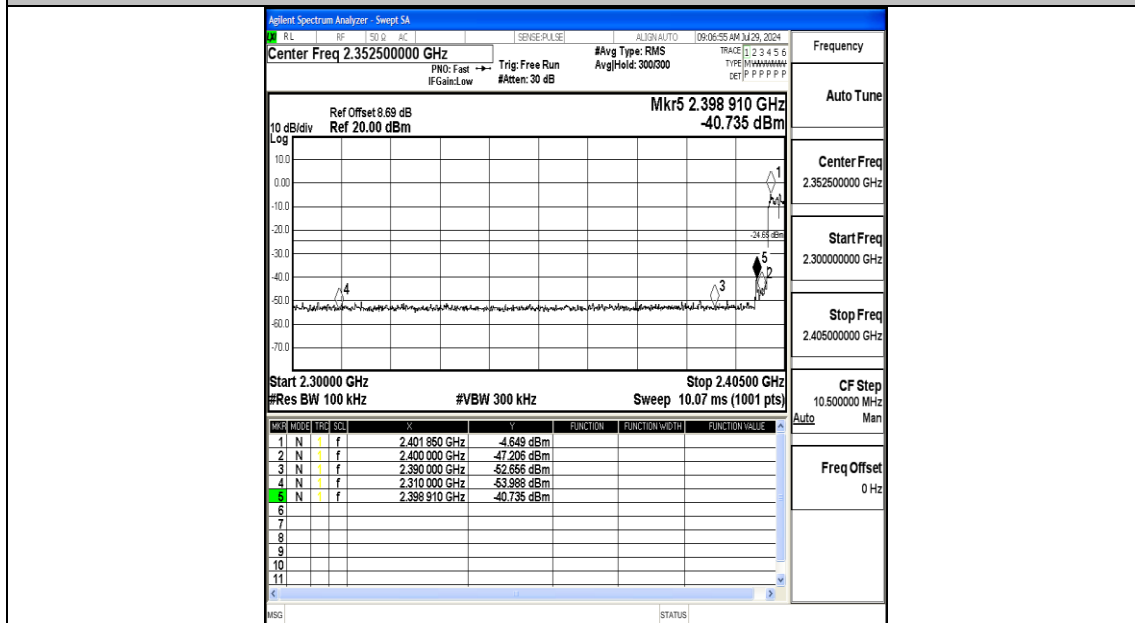
Test Graphs



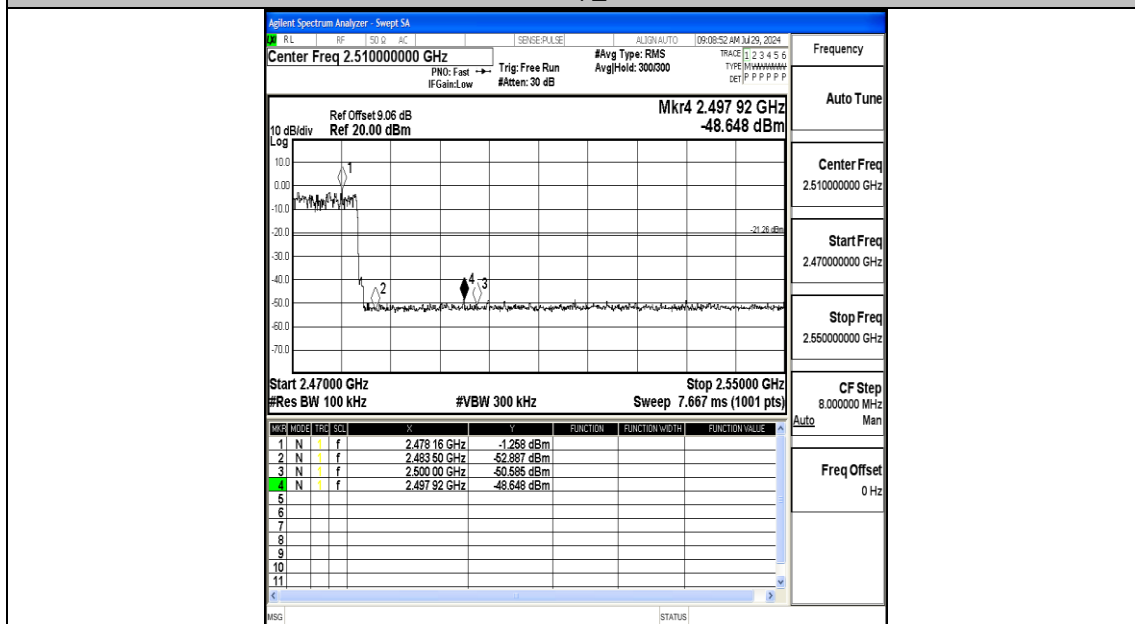




2DH5-Ant1-2480-PASS



2DH5-Ant1-Hop_2402-PASS



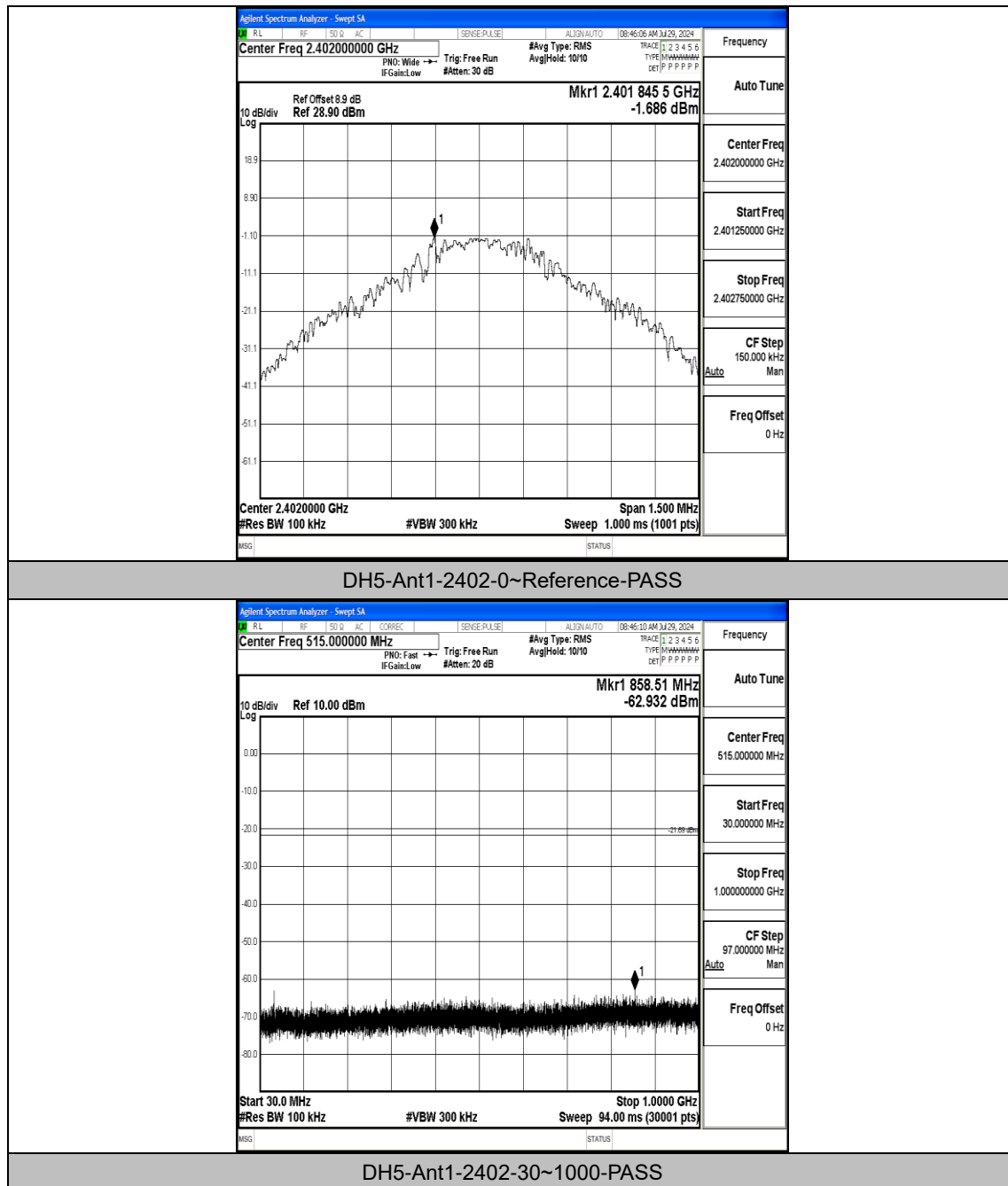
2DH5-Ant1-Hop_2480-PASS

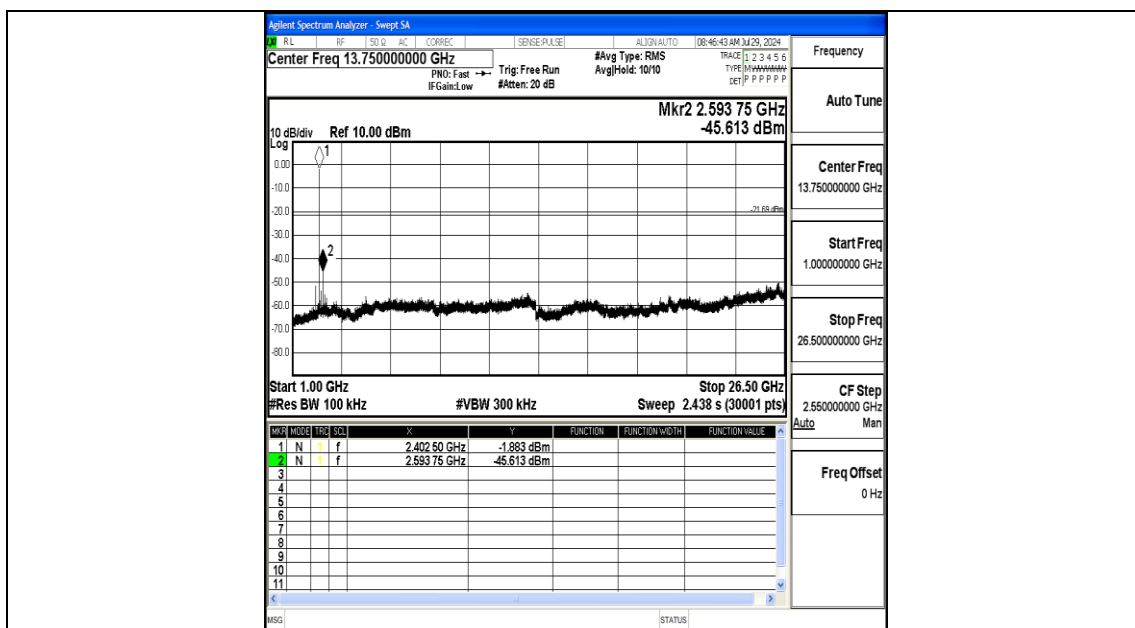
Appendix H: Conducted Spurious Emission

Test Result

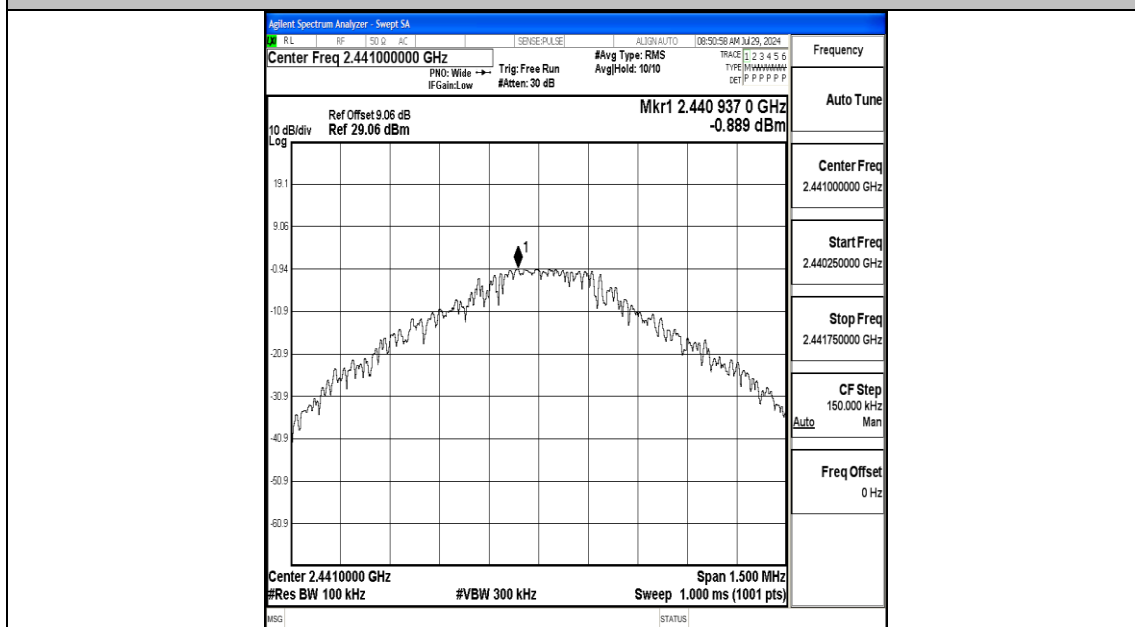
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-1.69	-1.69	---	PASS
DH5	Ant1	2402	30~1000	-1.69	-62.93	≤-21.69	PASS
DH5	Ant1	2402	1000~26500	-1.69	-45.61	≤-21.69	PASS
DH5	Ant1	2441	0~Reference	-0.89	-0.89	---	PASS
DH5	Ant1	2441	30~1000	-0.89	-61.61	≤-20.89	PASS
DH5	Ant1	2441	1000~26500	-0.89	-45.85	≤-20.89	PASS
DH5	Ant1	2480	0~Reference	0.04	0.04	---	PASS
DH5	Ant1	2480	30~1000	0.04	-61.51	≤-19.96	PASS
DH5	Ant1	2480	1000~26500	0.04	-46.97	≤-19.96	PASS
2DH5	Ant1	2402	0~Reference	-1.04	-1.04	---	PASS
2DH5	Ant1	2402	30~1000	-1.04	-62.34	≤-21.04	PASS
2DH5	Ant1	2402	1000~26500	-1.04	-45.99	≤-21.04	PASS
2DH5	Ant1	2441	0~Reference	-0.74	-0.74	---	PASS
2DH5	Ant1	2441	30~1000	-0.74	-61.84	≤-20.74	PASS
2DH5	Ant1	2441	1000~26500	-0.74	-49.91	≤-20.74	PASS
2DH5	Ant1	2480	0~Reference	-3.05	-3.05	---	PASS
2DH5	Ant1	2480	30~1000	-3.05	-60.9	≤-23.05	PASS
2DH5	Ant1	2480	1000~26500	-3.05	-50.46	≤-23.05	PASS

Test Graphs

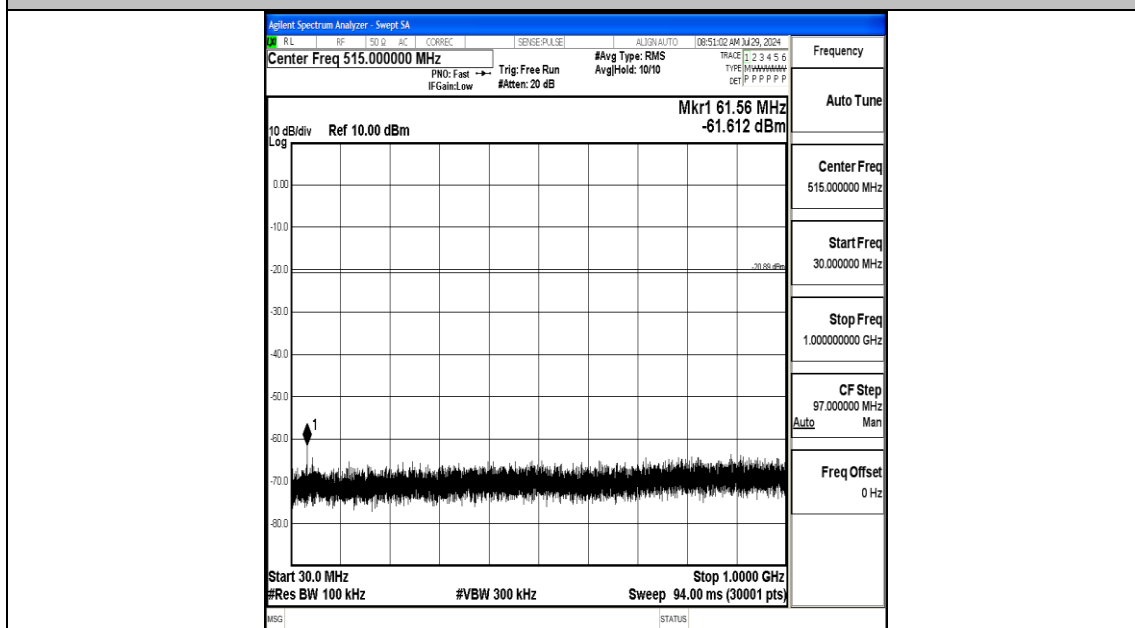




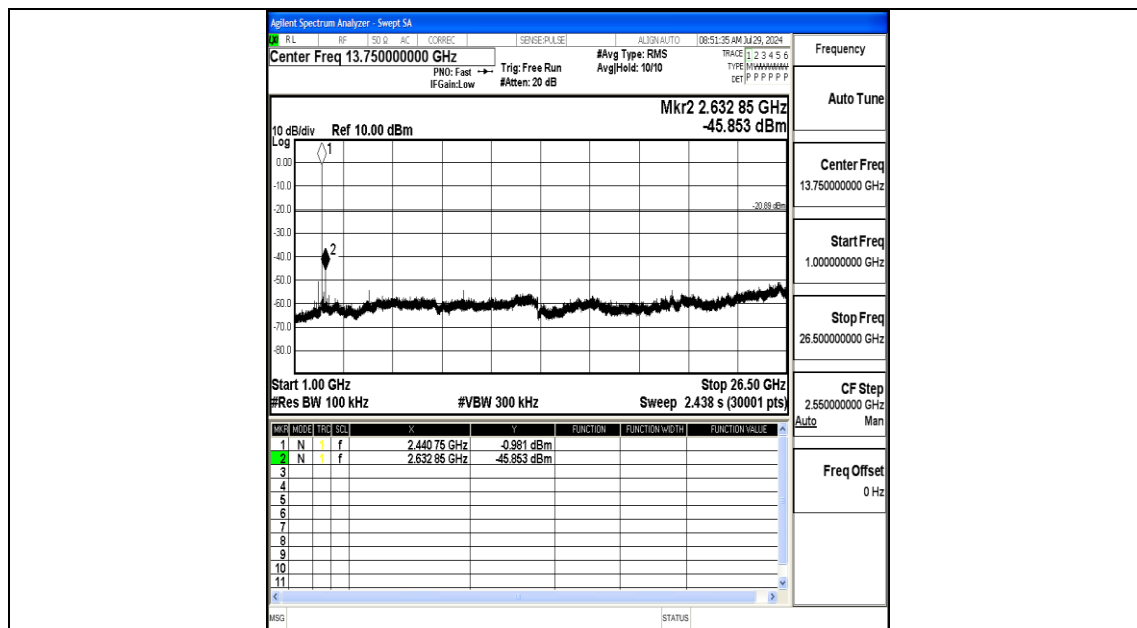
DH5-Ant1-2402-1000~26500-PASS



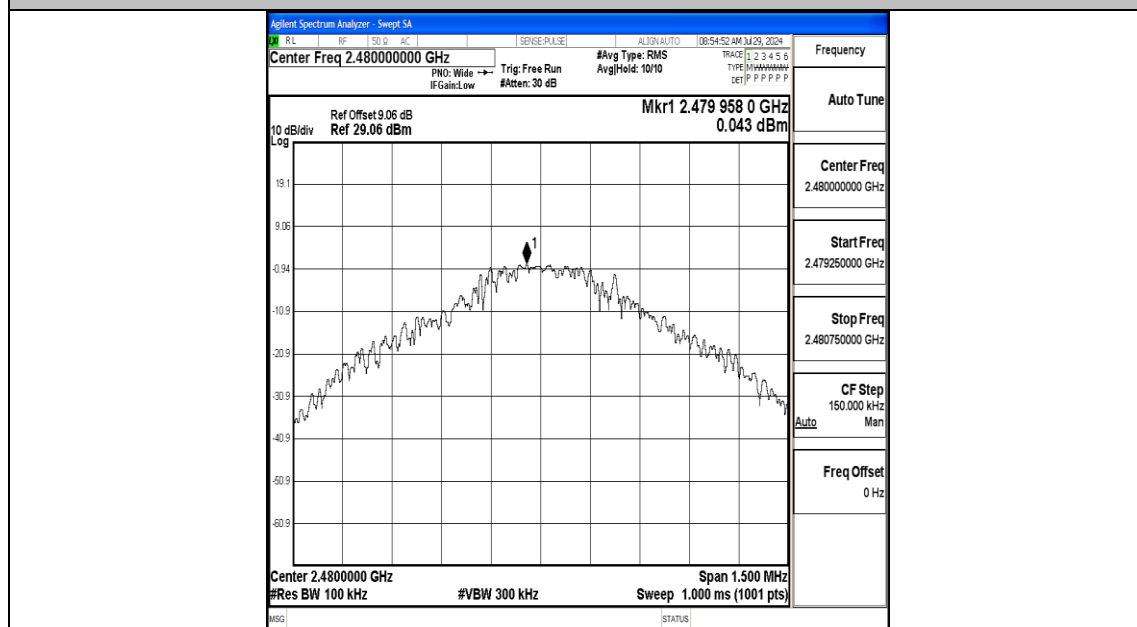
DH5-Ant1-2441-0~Reference-PASS



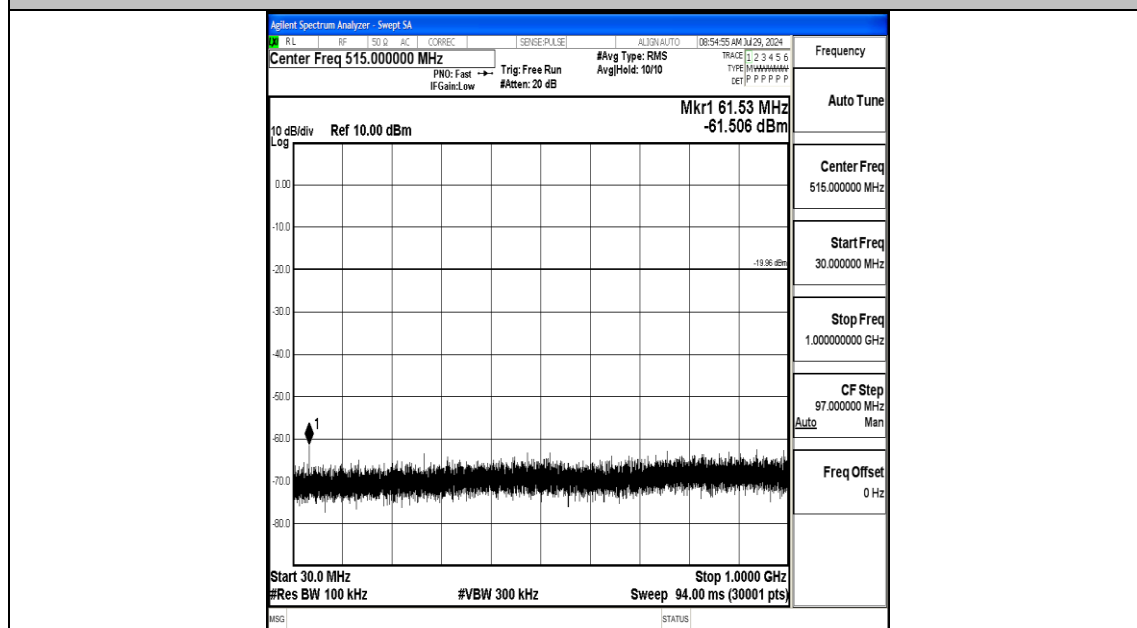
DH5-Ant1-2441-30~1000-PASS



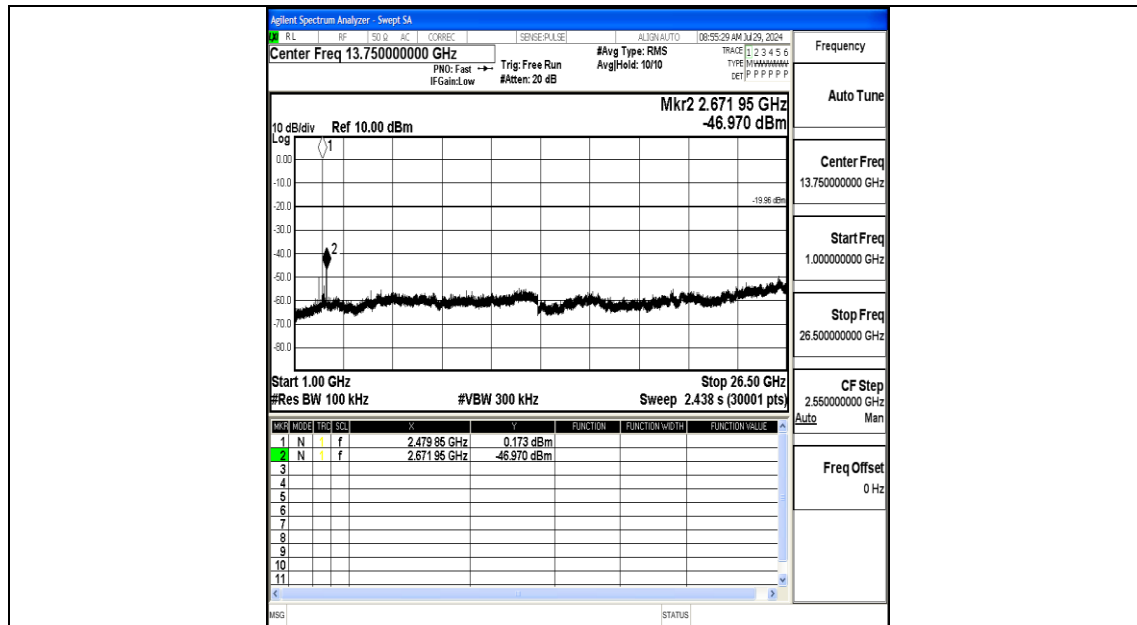
DH5-Ant1-2441-1000~26500-PASS



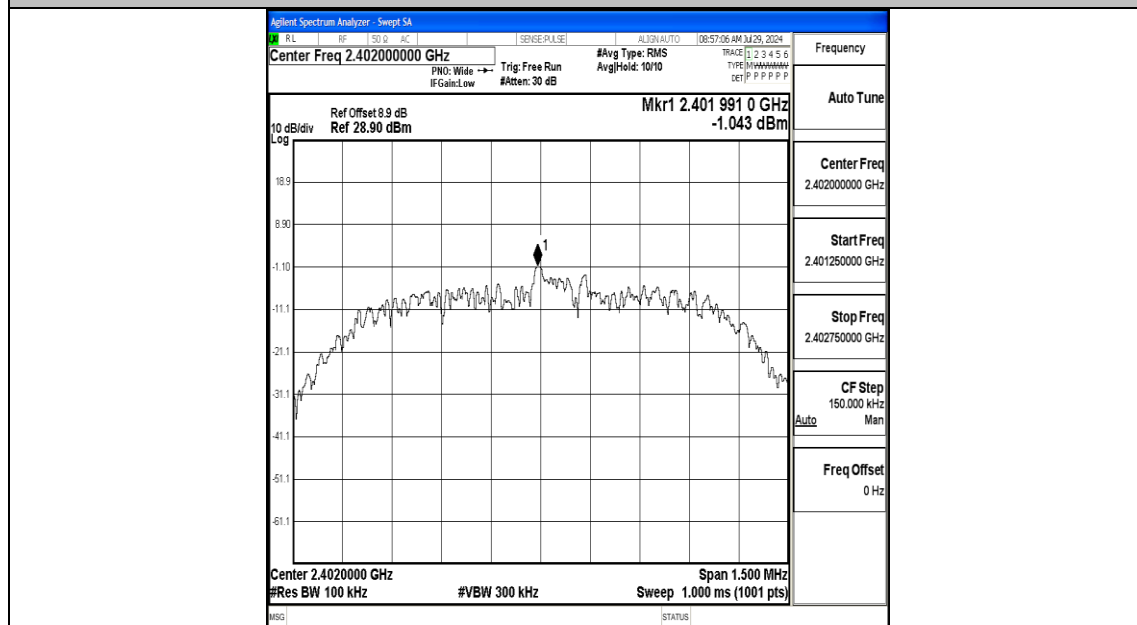
DH5-Ant1-2480-0~Reference-PASS



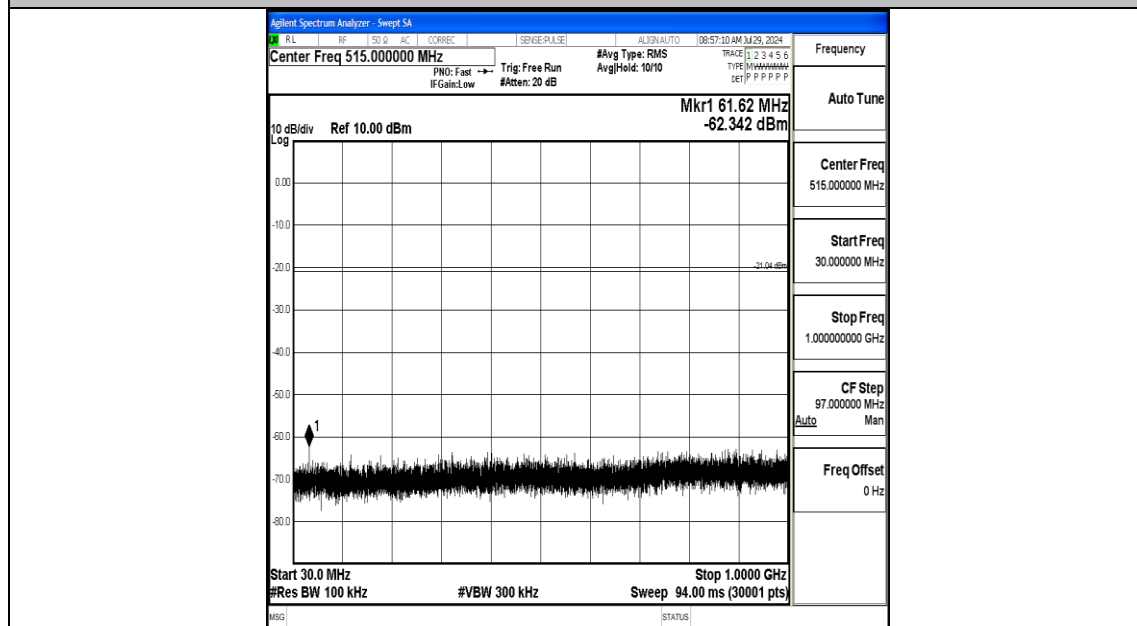
DH5-Ant1-2480-30~1000-PASS



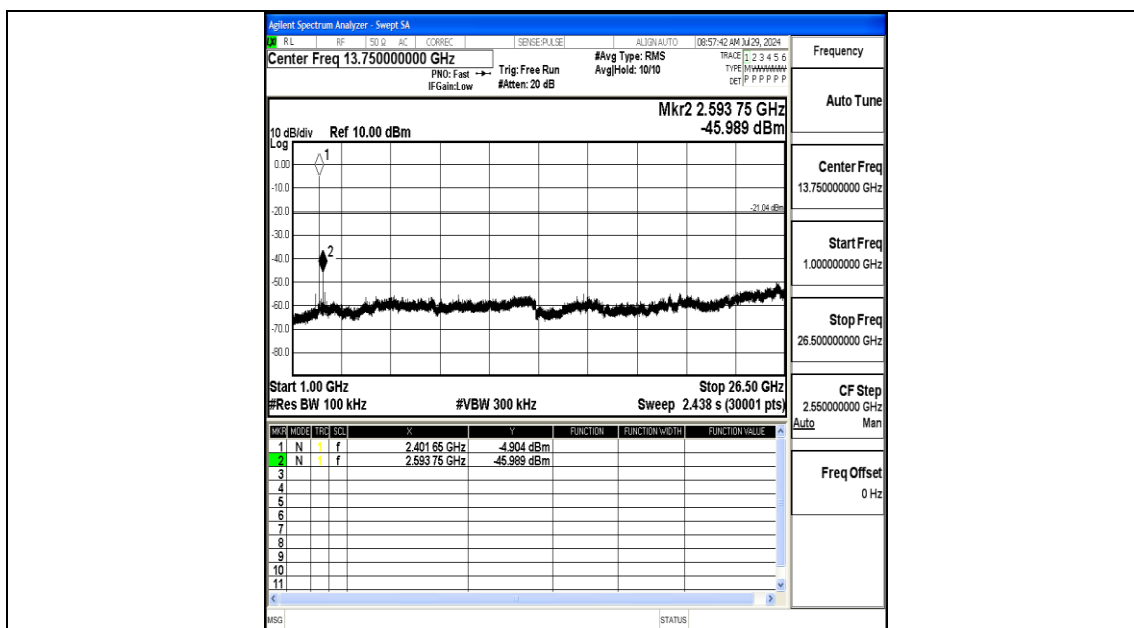
DH5-Ant1-2480-1000~26500-PASS



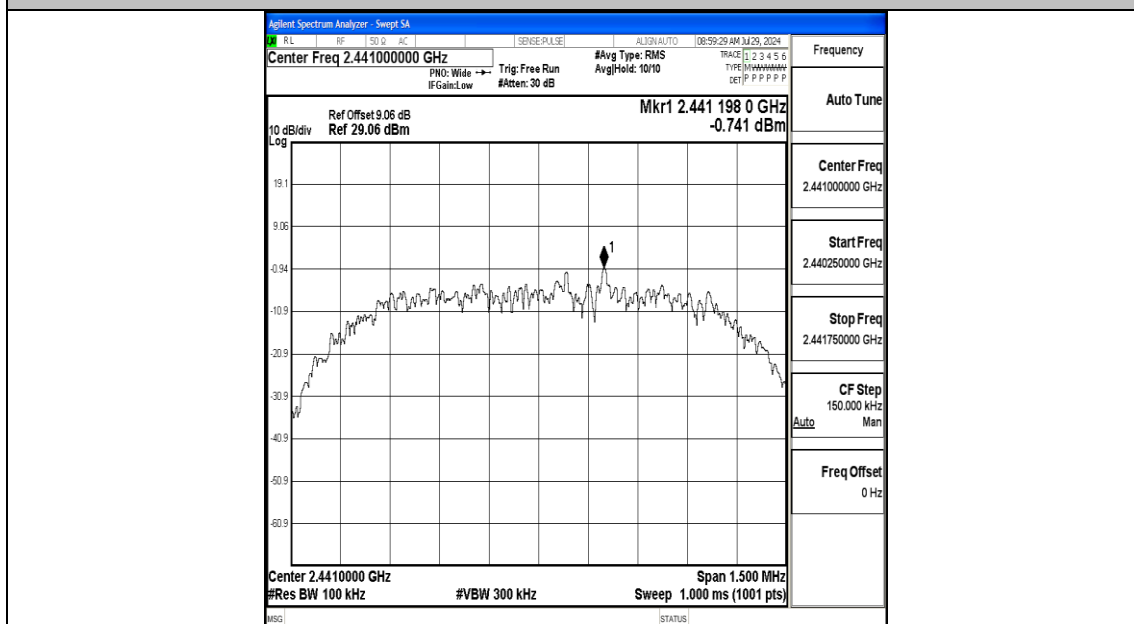
2DH5-Ant1-2402-0~Reference-PASS



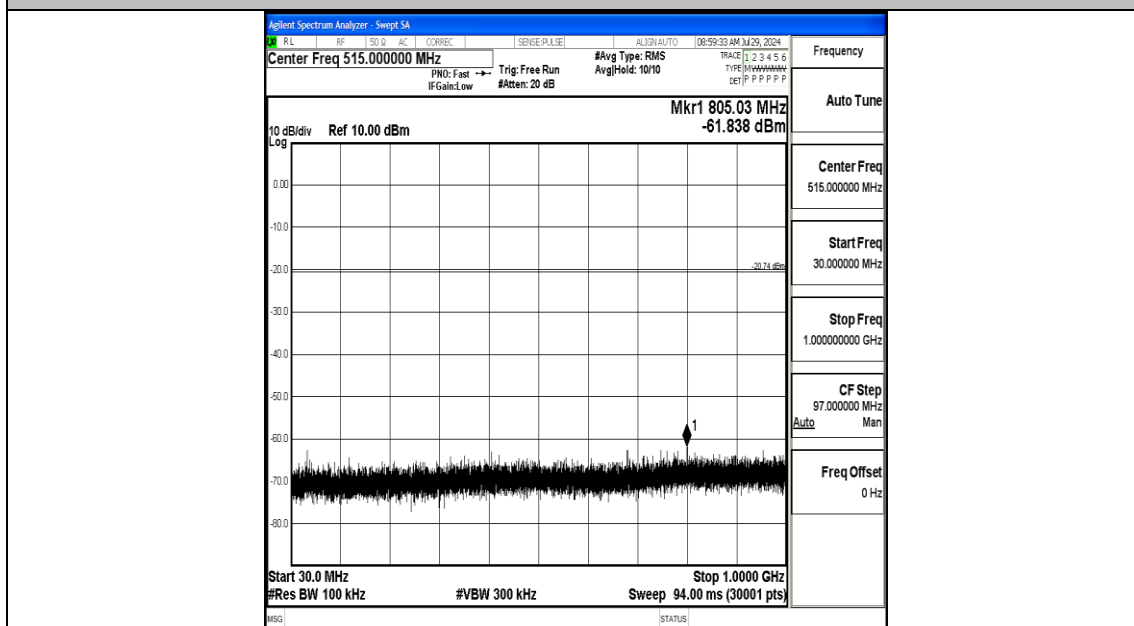
2DH5-Ant1-2402-30~1000-PASS



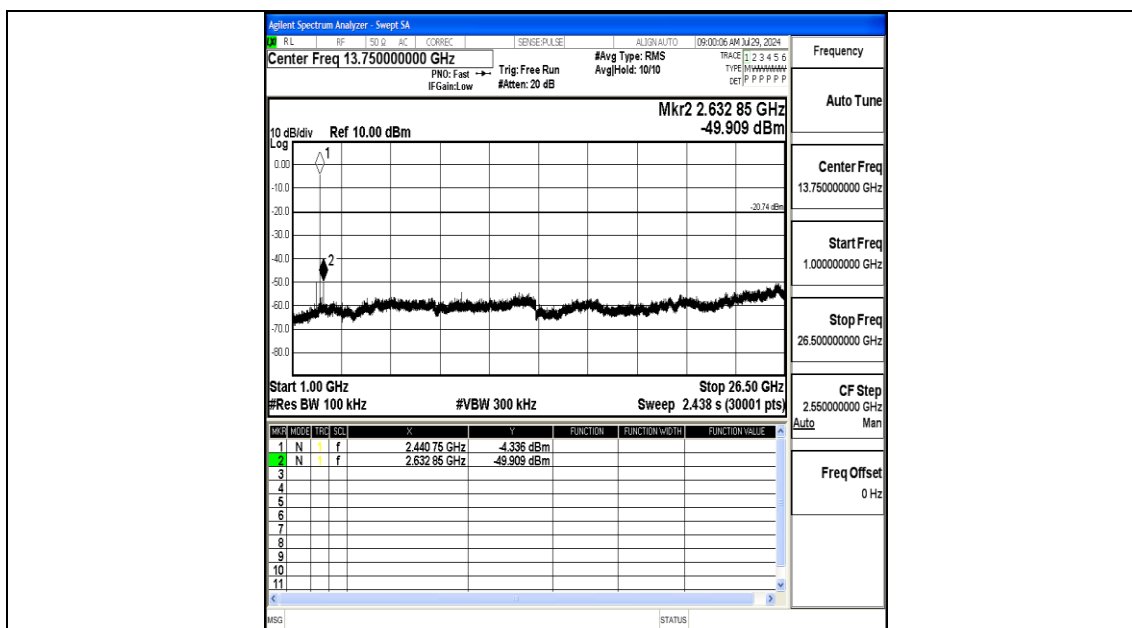
2DH5-Ant1-2402-1000~26500-PASS



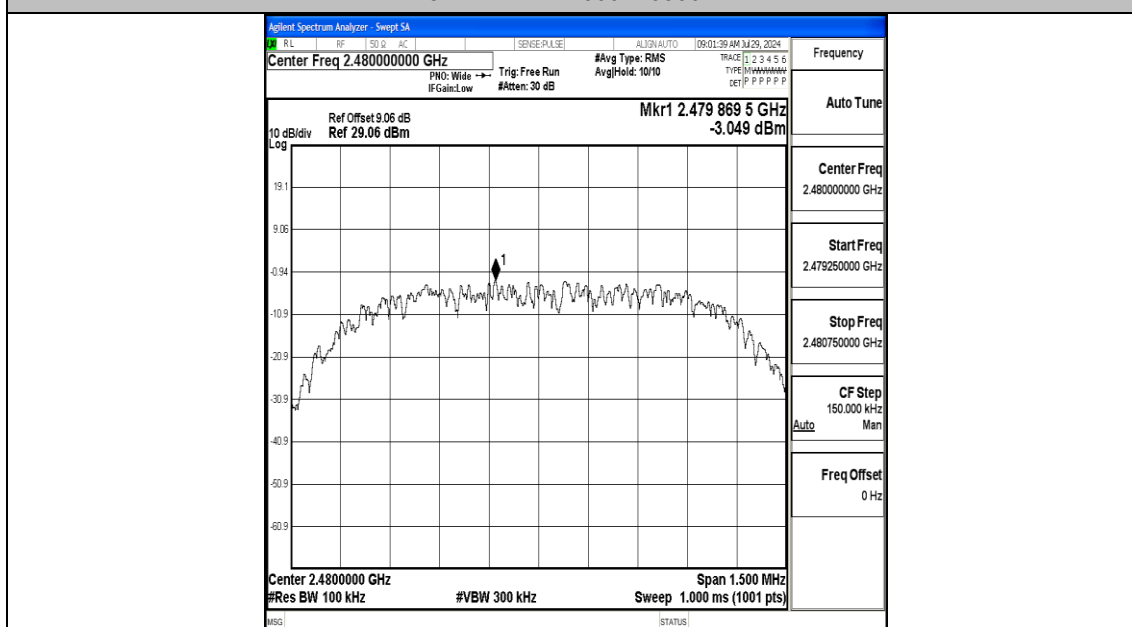
2DH5-Ant1-2441-0~Reference-PASS



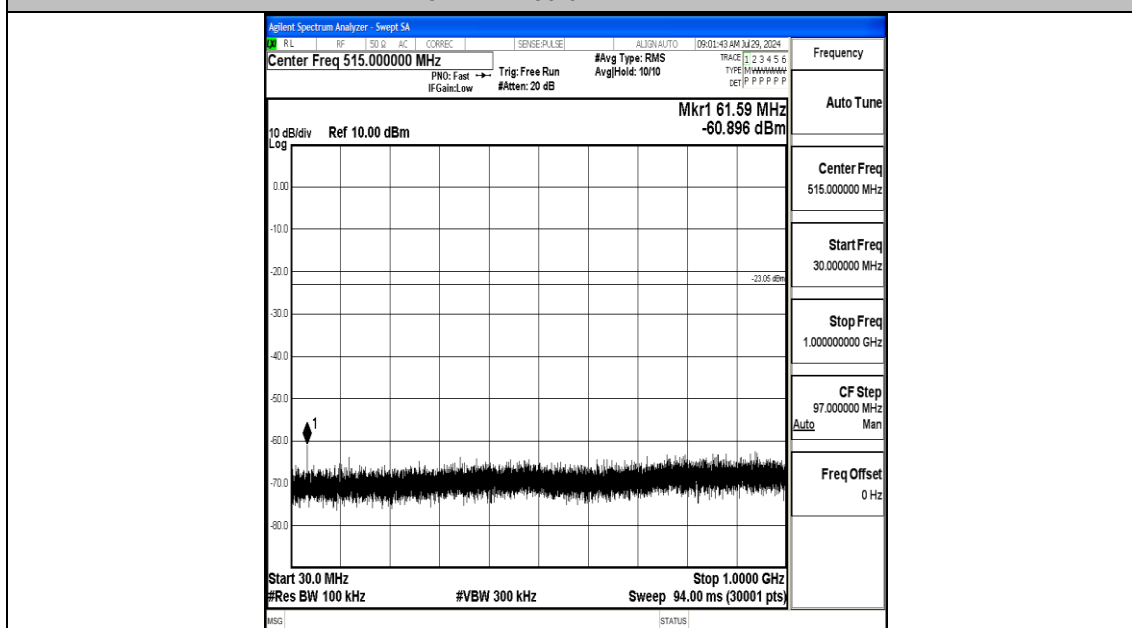
2DH5-Ant1-2441-30~1000-PASS



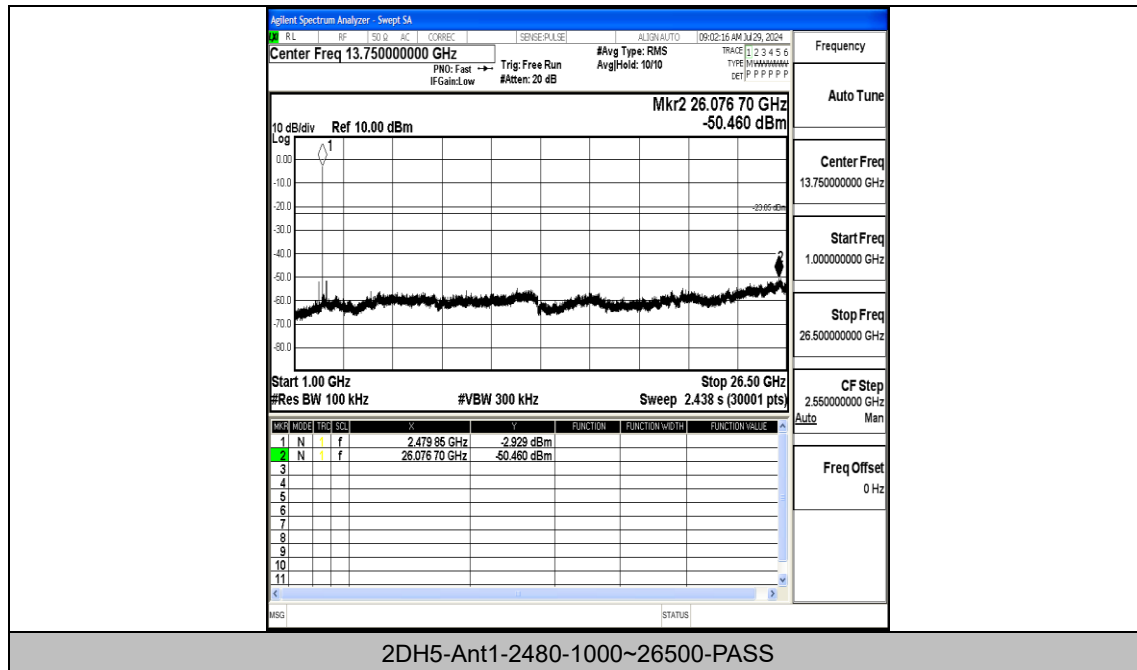
2DH5-Ant1-2441-1000~26500-PASS



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



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



Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.88	3.74	77.01	1.13
DH5	Ant1	2441	2.88	3.74	77.01	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

Test Graphs

