

Appendix Test Data for Bluetooth BR&EDR

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.547	2402.501	---	---
		2441	0.954	2440.547	2441.501	---	---
		2480	0.954	2479.547	2480.501	---	---
2DH5	Ant1	2402	1.290	2401.376	2402.666	---	---
		2441	1.284	2440.379	2441.663	---	---
		2480	1.287	2479.379	2480.666	---	---
3DH5	Ant1	2402	1.272	2401.370	2402.642	---	---
		2441	1.272	2440.370	2441.642	---	---
		2480	1.281	2479.370	2480.651	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



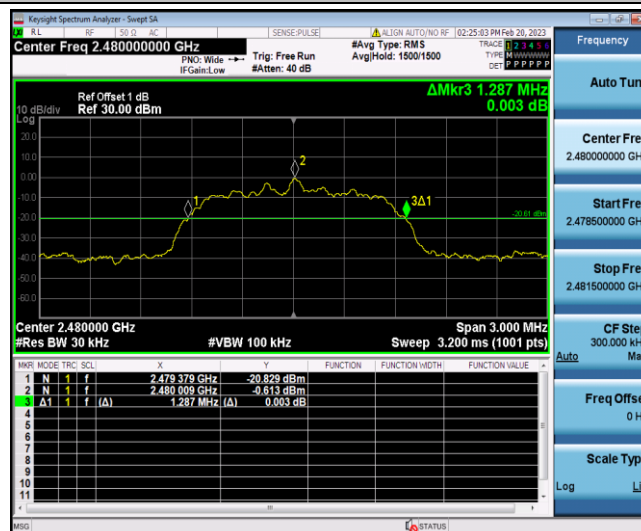
2DH5_Ant1_2402



2DH5_Ant1_2441



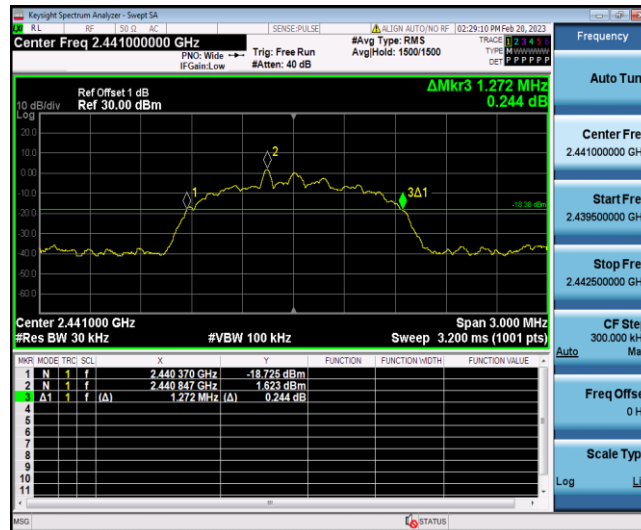
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88393	2401.5691	2402.4530	---	---
		2441	0.88734	2440.5672	2441.4545	---	---
		2480	0.88828	2479.5659	2480.4542	---	---
2DH5	Ant1	2402	1.1838	2401.4210	2402.6048	---	---
		2441	1.1818	2440.4220	2441.6038	---	---
		2480	1.1833	2479.4219	2480.6052	---	---
3DH5	Ant1	2402	1.1739	2401.4239	2402.5978	---	---
		2441	1.1683	2440.4270	2441.5953	---	---
		2480	1.1697	2479.4274	2480.5971	---	---

Test Graphs

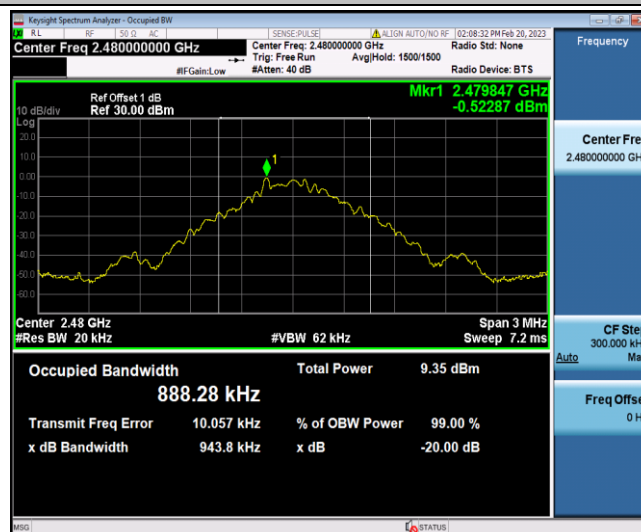
DH5_Ant1_2402



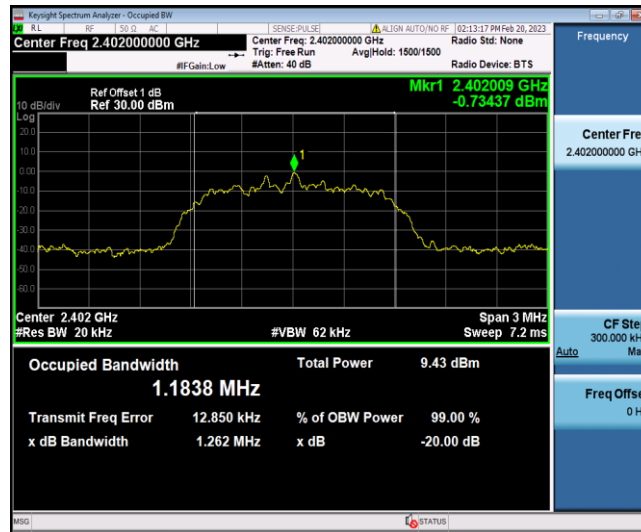
DH5_Ant1_2441



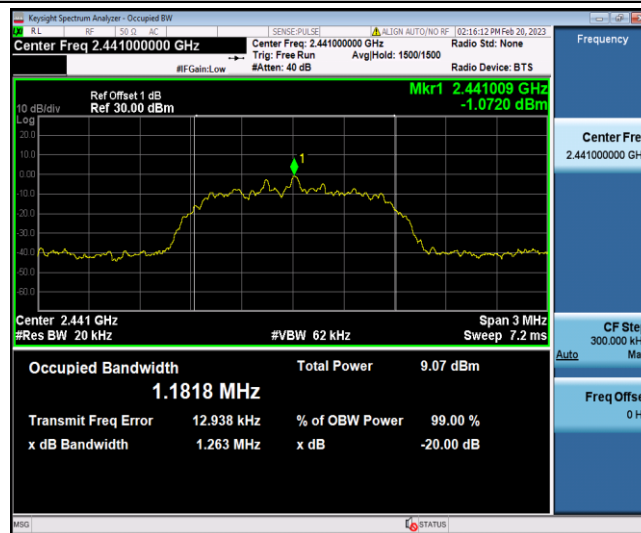
DH5_Ant1_2480



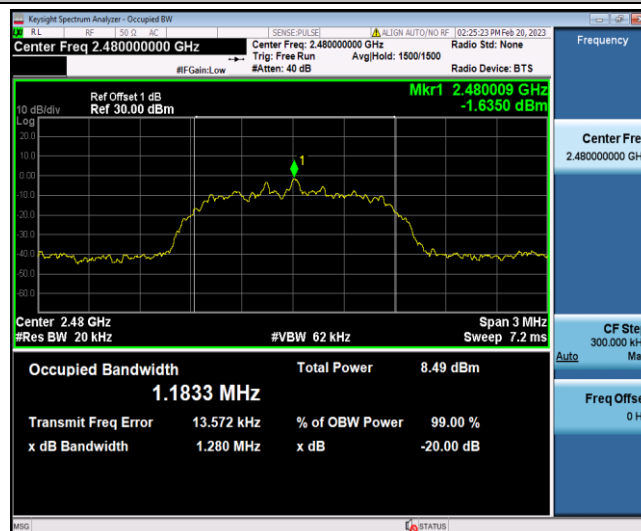
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power and EIRP

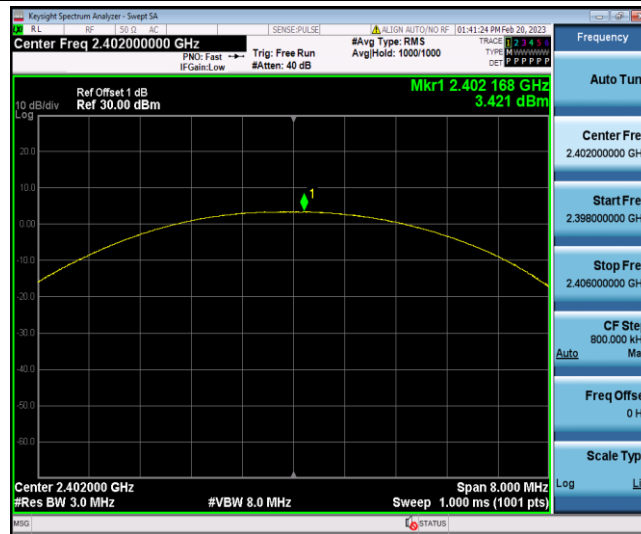
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.42	≤30	PASS
		2441	3.02	≤30	PASS
		2480	2.38	≤30	PASS
2DH5	Ant1	2402	3.86	≤20.97	PASS
		2441	3.39	≤20.97	PASS
		2480	2.89	≤20.97	PASS
3DH5	Ant1	2402	4.08	≤20.97	PASS
		2441	3.65	≤20.97	PASS
		2480	3.17	≤20.97	PASS

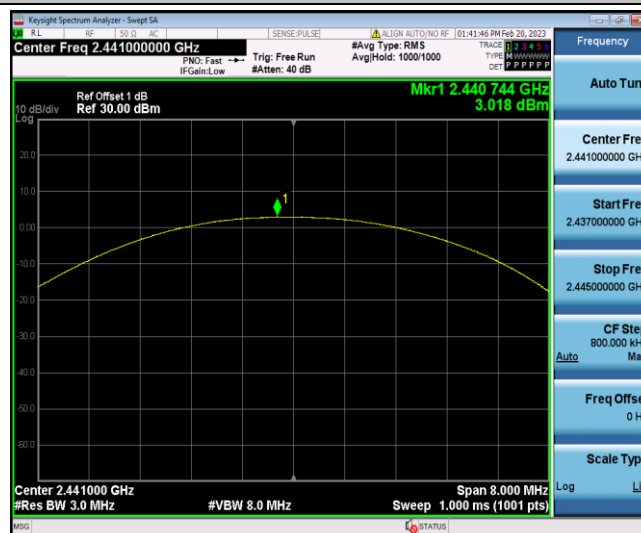
TestMode	Antenna	Channel	Result[dBm]	Antenna gain [dBi]	EIRP [dBm]	EIRP Limit[dBm]	Verdict
DH5	Ant1	2402	3.42	0.6	4.02	≤36.02	PASS
		2441	3.02	0.6	3.62	≤36.02	PASS
		2480	2.38	0.6	2.98	≤36.02	PASS
2DH5	Ant1	2402	3.86	0.6	4.46	≤36.02	PASS
		2441	3.39	0.6	3.99	≤36.02	PASS
		2480	2.89	0.6	3.49	≤36.02	PASS
3DH5	Ant1	2402	4.08	0.6	4.68	≤36.02	PASS
		2441	3.65	0.6	4.25	≤36.02	PASS
		2480	3.17	0.6	3.77	≤36.02	PASS

Test Graphs

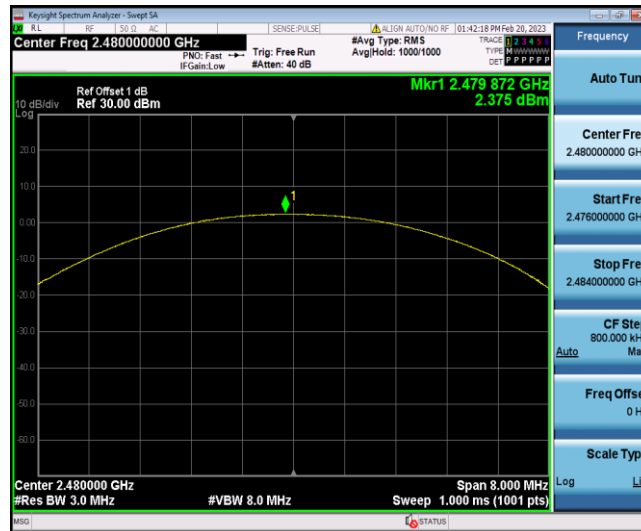
DH5_Ant1_2402



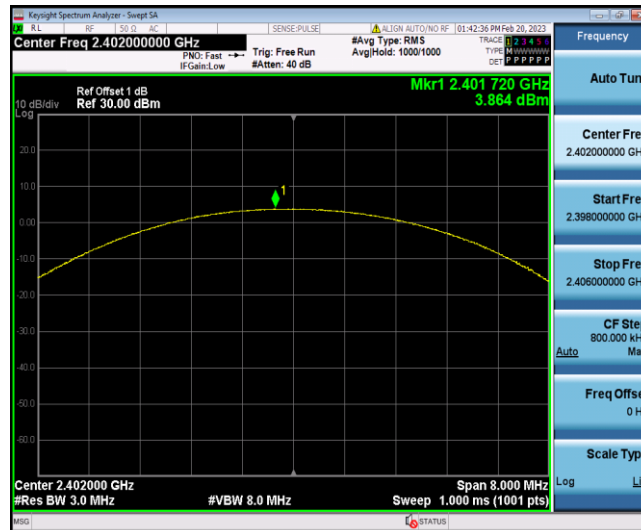
DH5_Ant1_2441



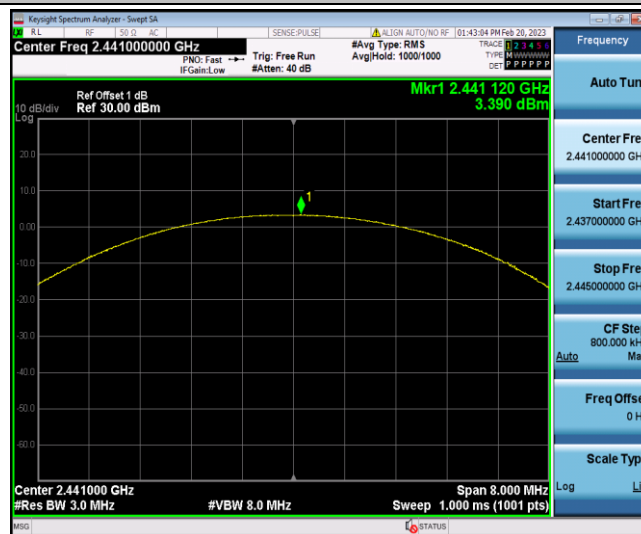
DH5_Ant1_2480



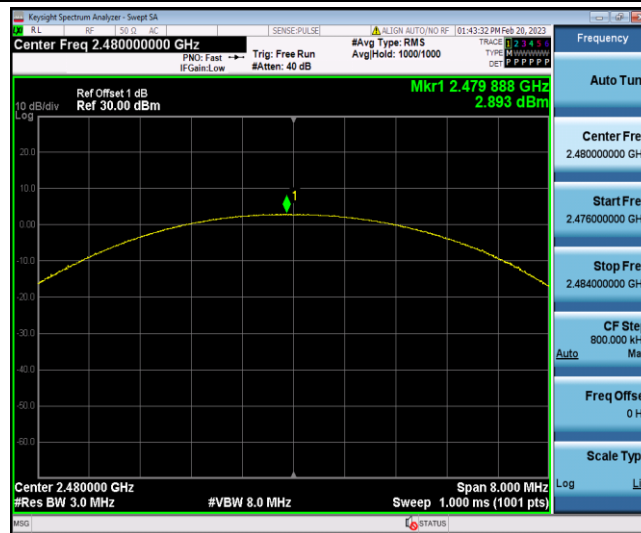
2DH5_Ant1_2402



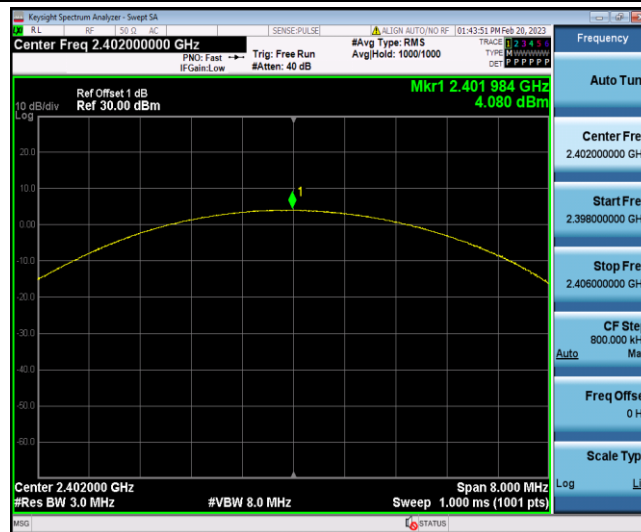
2DH5_Ant1_2441



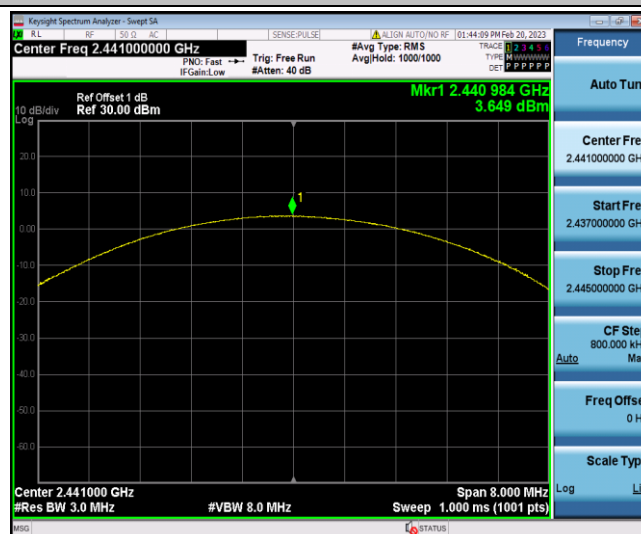
2DH5_Ant1_2480



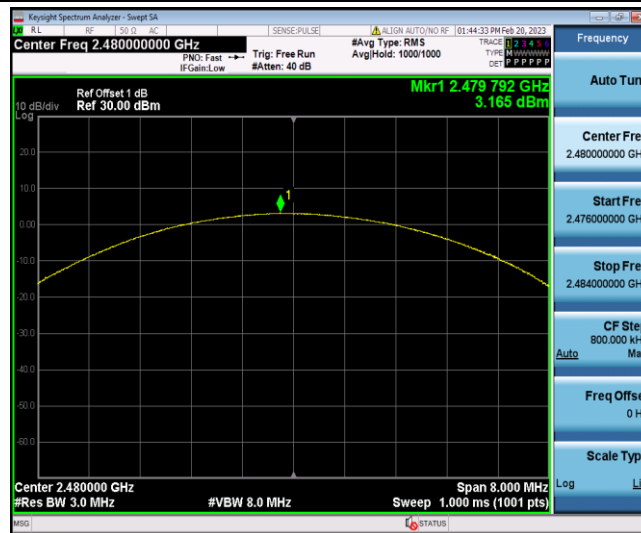
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[dBm]	Verdict
DH5	Ant1	Hop	0.996	≥ 0.960	PASS
2DH5	Ant1	Hop	0.996	≥ 0.862	PASS
3DH5	Ant1	Hop	1.004	≥ 0.856	PASS

Test Graphs

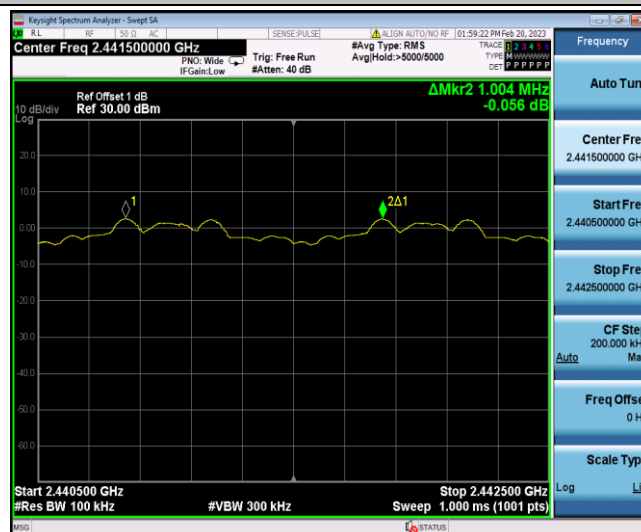
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



Appendix E: Time of occupancy

Test Result

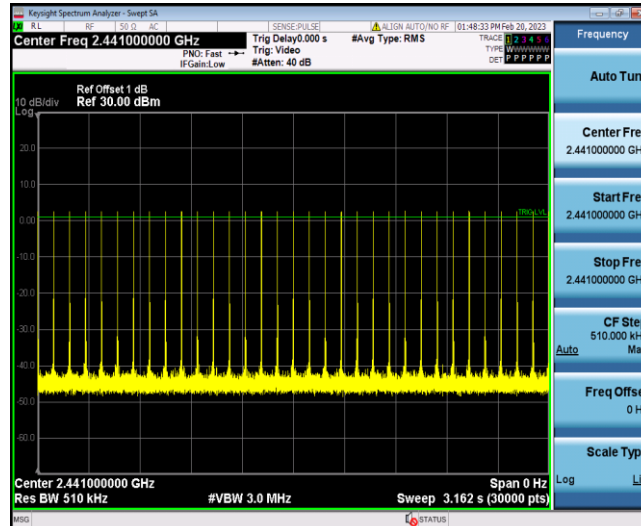
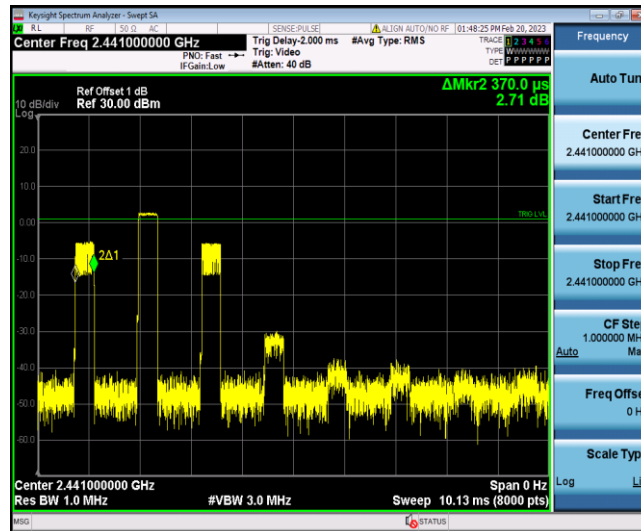
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.370	330	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.619	170	0.275	≤0.4	PASS
DH5	Ant1	Hop	2.868	110	0.315	≤0.4	PASS
2DH1	Ant1	Hop	0.379	330	0.125	≤0.4	PASS
2DH3	Ant1	Hop	1.631	170	0.277	≤0.4	PASS
2DH5	Ant1	Hop	2.879	110	0.317	≤0.4	PASS
3DH1	Ant1	Hop	0.379	330	0.125	≤0.4	PASS
3DH3	Ant1	Hop	1.629	170	0.277	≤0.4	PASS
3DH5	Ant1	Hop	2.880	110	0.317	≤0.4	PASS

Note: (1) Dwell time=Pulse time (ms) × Total Pulse number s

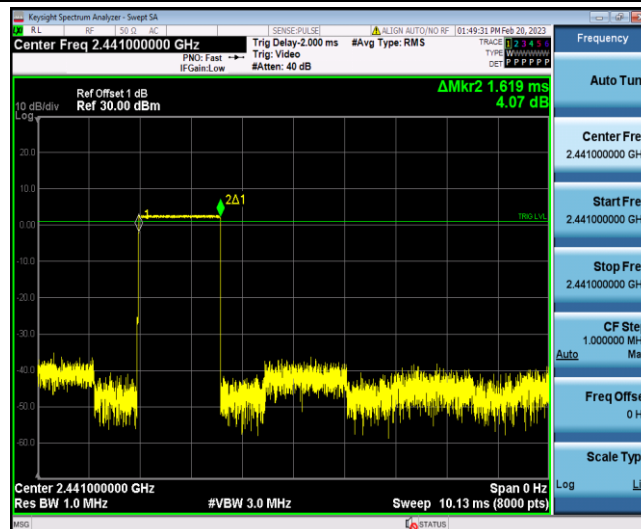
(2) Total Pulse number= Pulse number in 3.16 s × 10

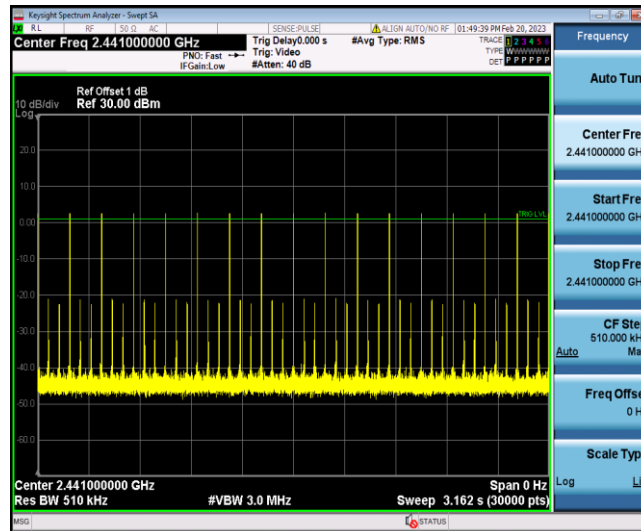
Test Graphs

DH1_Ant1_Hop

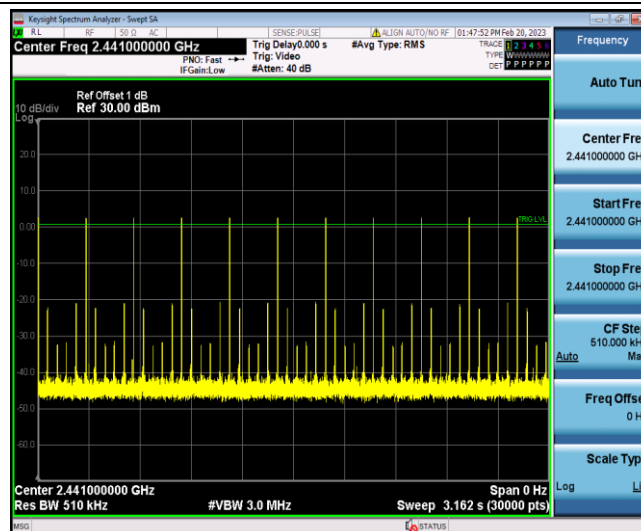
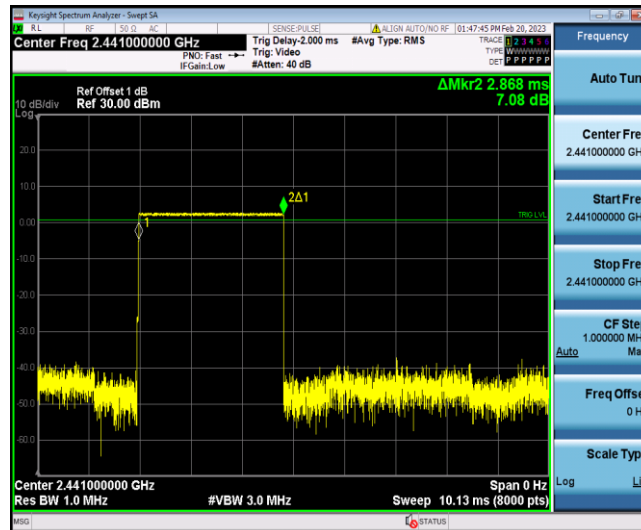


DH3_Ant1_Hop

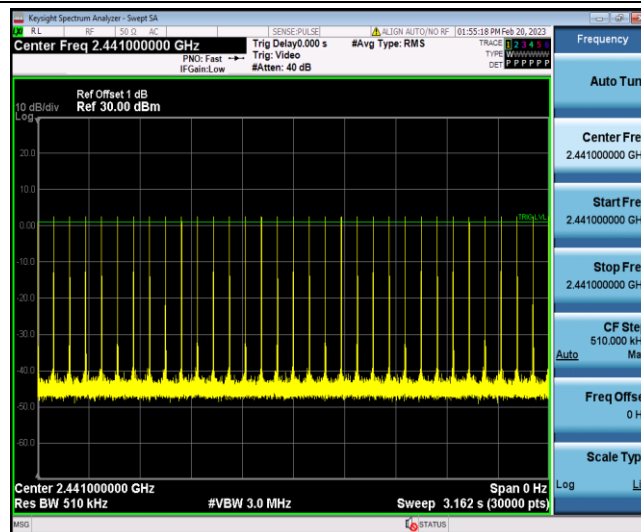
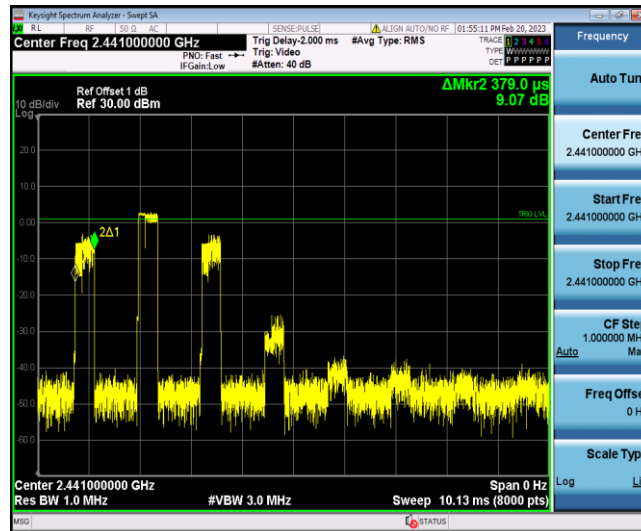




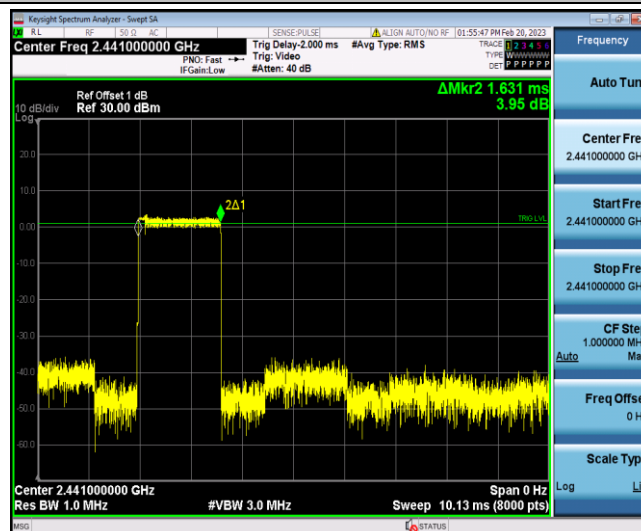
DH5_Ant1_Hop

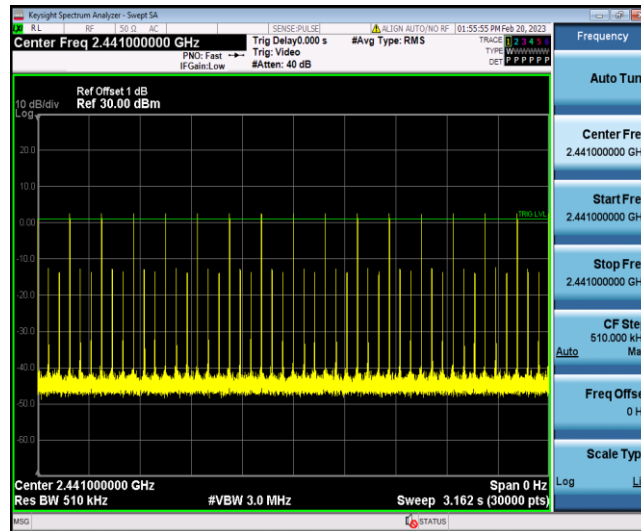


2DH1_Ant1_Hop

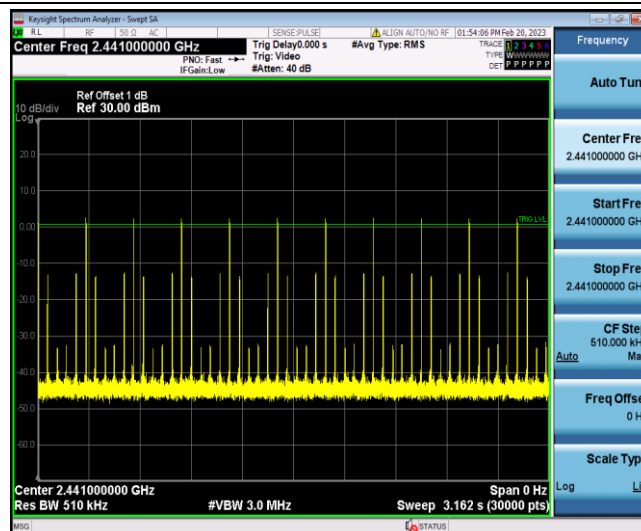
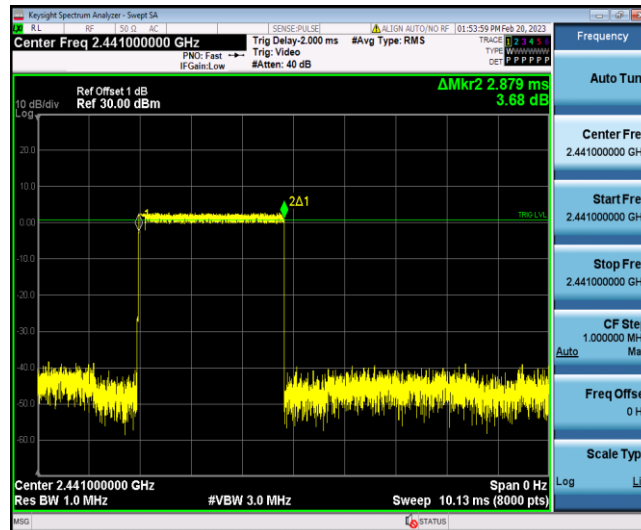


2DH3_Ant1_Hop

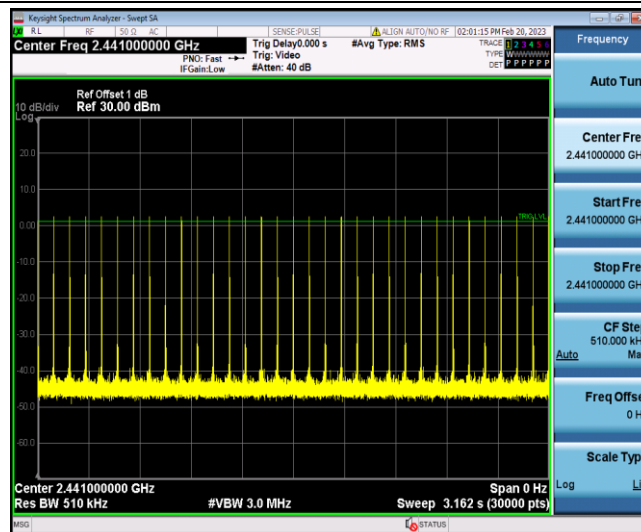
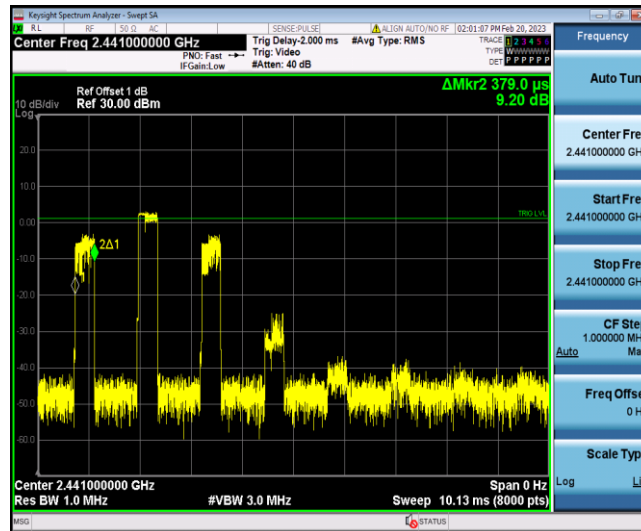




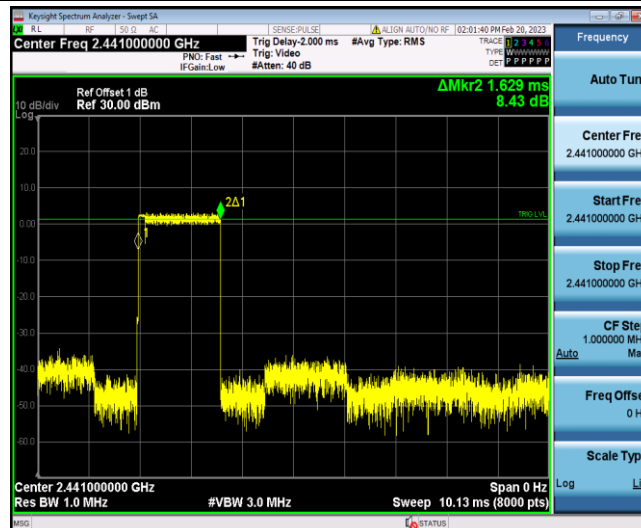
2DH5_Ant1_Hop

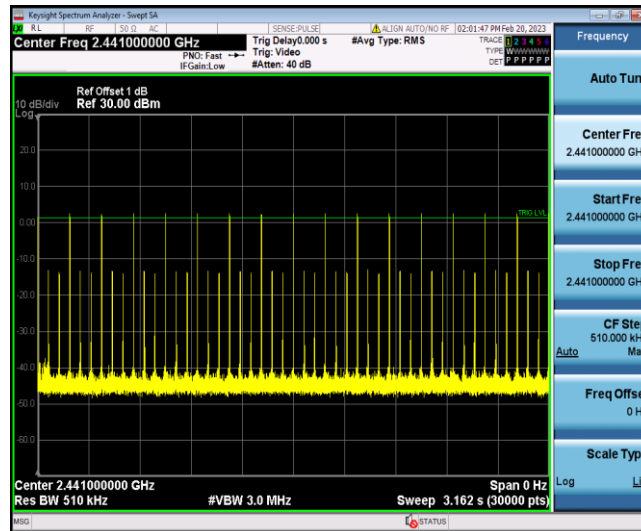


3DH1_Ant1_Hop

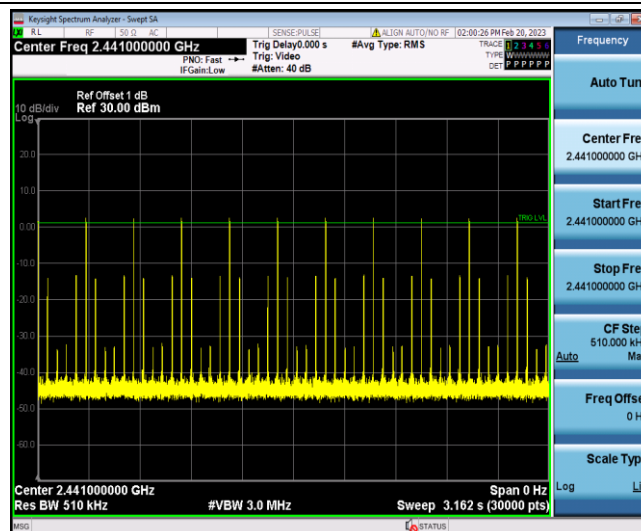
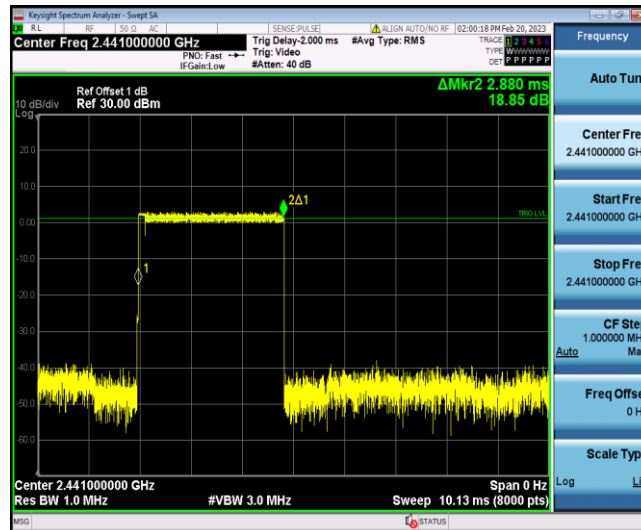


3DH3_Ant1_Hop





3DH5_Ant1_Hop



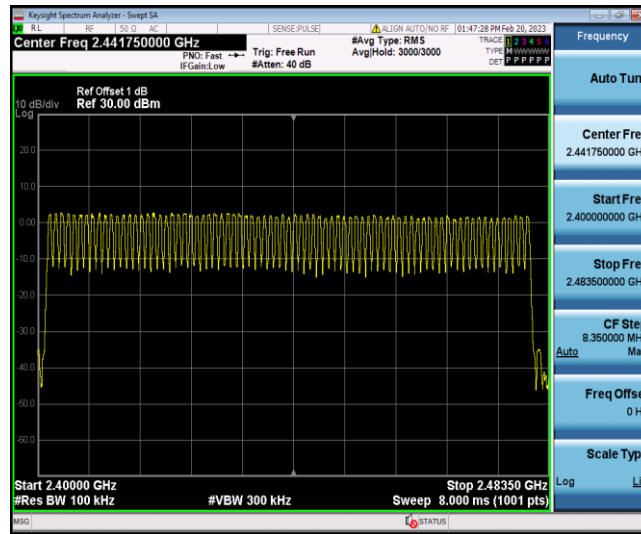
Appendix F: Number of hopping channels

Test Result

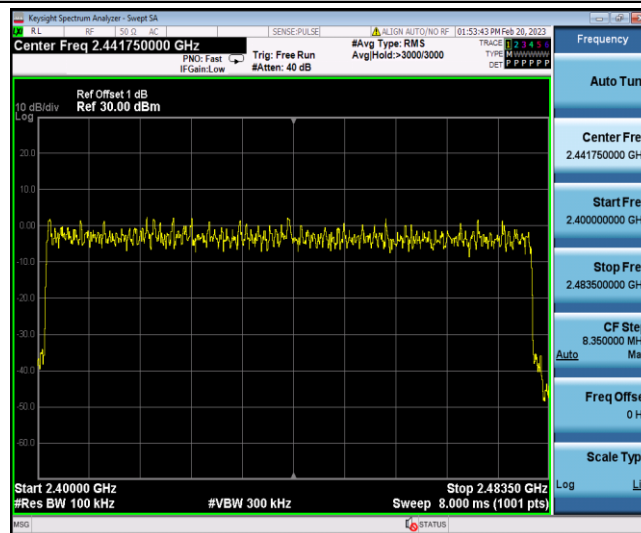
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥ 15	PASS
2DH5	Ant1	Hop	79	≥ 15	PASS
3DH5	Ant1	Hop	79	≥ 15	PASS

Test Graphs

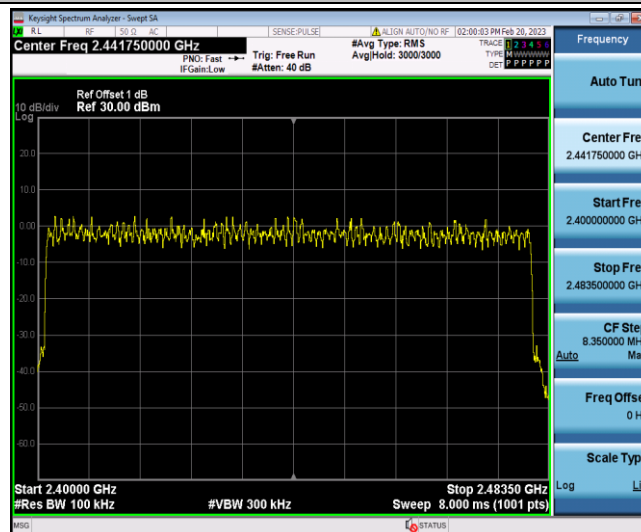
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.88	-35.19	≤ -17.12	PASS
		High	2480	1.82	-30.98	≤ -18.18	PASS
		Low	Hop_2402	2.73	-48.83	≤ -17.27	PASS
		High	Hop_2480	1.80	-50.34	≤ -18.2	PASS
2DH5	Ant1	Low	2402	2.71	-35.05	≤ -17.29	PASS
		High	2480	1.72	-43.51	≤ -18.28	PASS
		Low	Hop_2402	1.54	-49.76	≤ -18.46	PASS
		High	Hop_2480	1.43	-52.07	≤ -18.57	PASS
3DH5	Ant1	Low	2402	2.73	-35.59	≤ -17.27	PASS
		High	2480	1.79	-42.95	≤ -18.21	PASS
		Low	Hop_2402	2.74	-49.25	≤ -17.26	PASS
		High	Hop_2480	1.94	-50.99	≤ -18.07	PASS