

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

Product Name: Bluetooth Keyboard

Trade Mark: Dracool

Test Model: LK001

FCC ID: 2A32S-LK001LK002

Environmental Conditions

Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

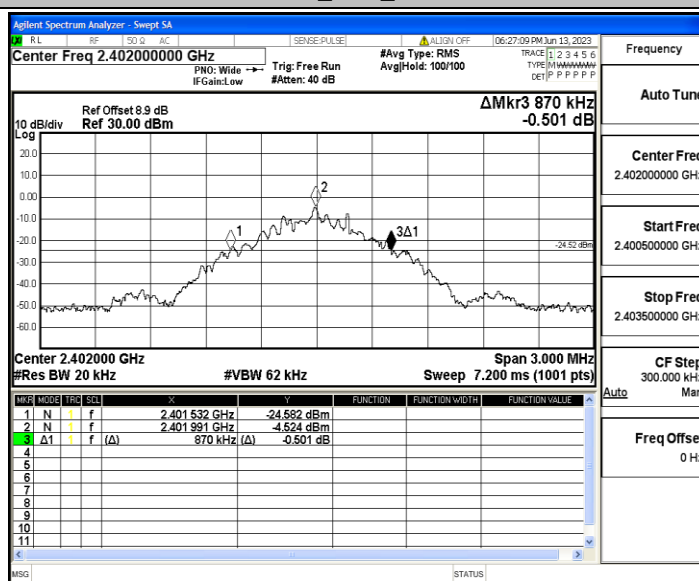
Appendix A: 20dB Emission Bandwidth

Test Result

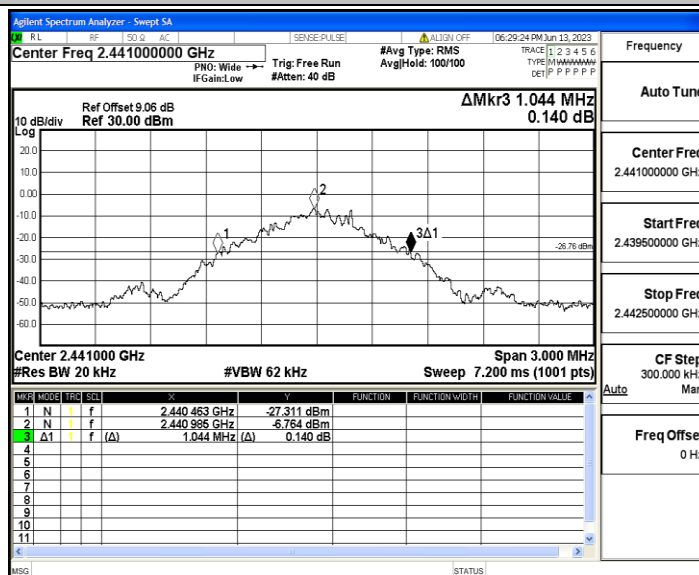
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.870	2401.532	2402.402	---	---
		2441	1.044	2440.463	2441.507	---	---
		2480	0.870	2479.535	2480.405	---	---

Test Graphs

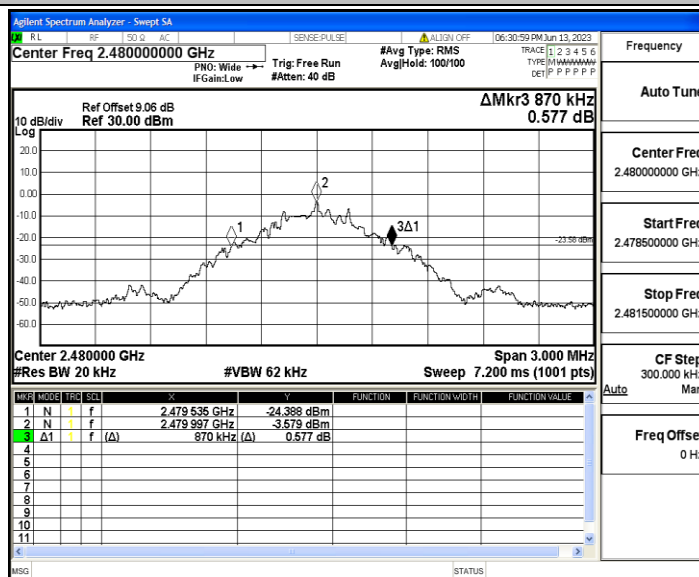
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



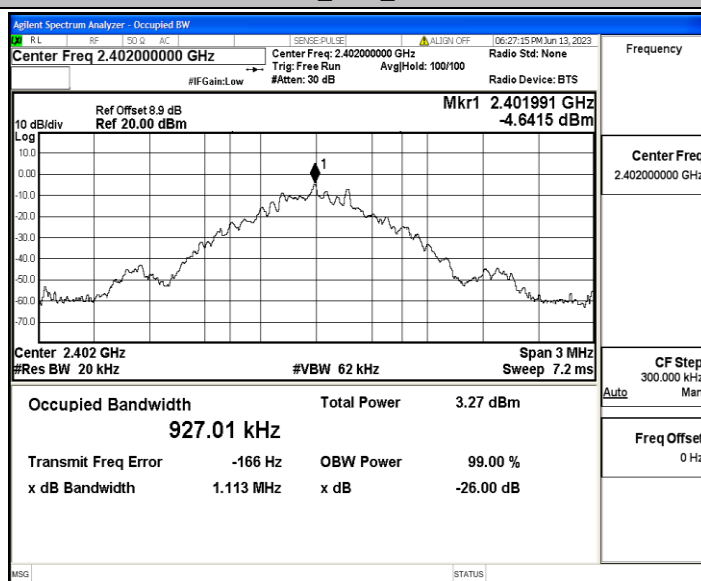
Appendix B: Occupied Channel Bandwidth

Test Result

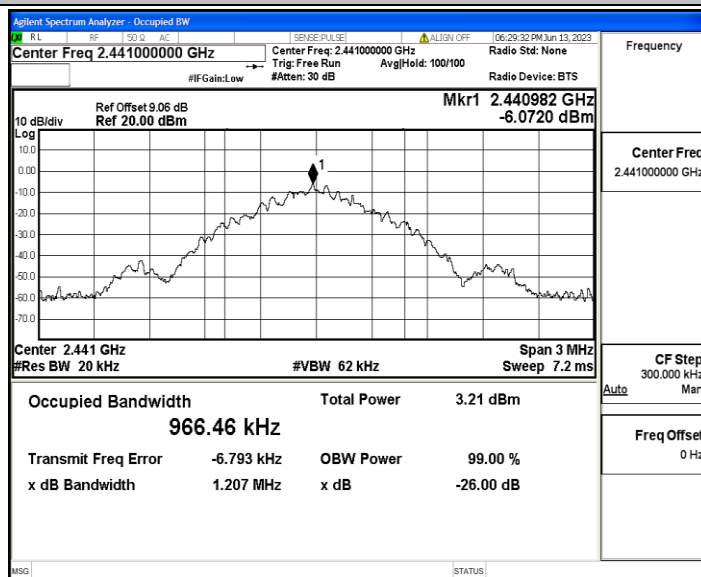
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.92701	2401.5363	2402.4633	---	---
		2441	0.96646	2440.5100	2441.4764	---	---
		2480	0.93778	2479.5273	2480.4651	---	---

Test Graphs

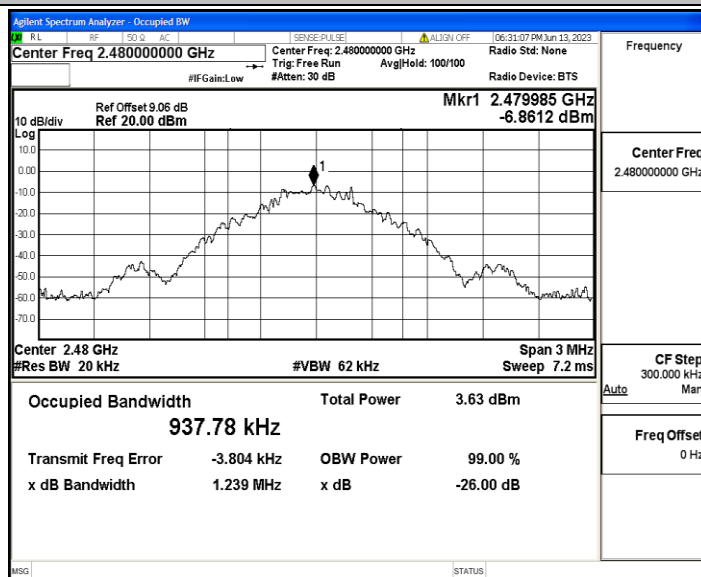
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



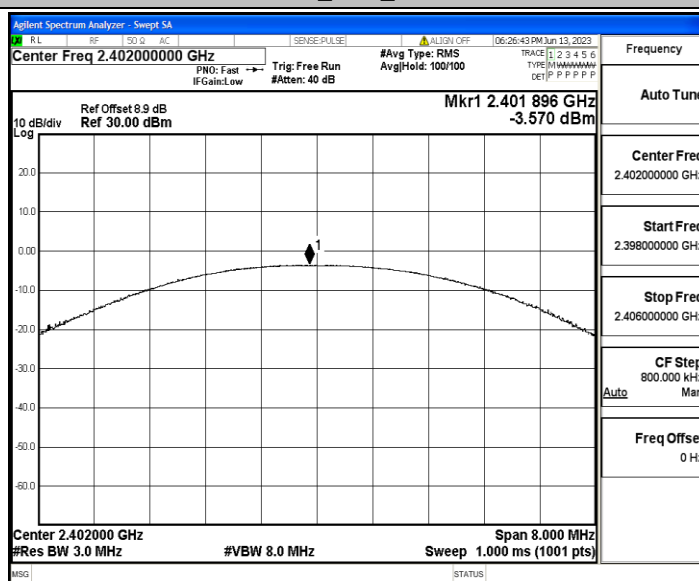
Appendix C: Maximum Peak conducted output power

Test Result

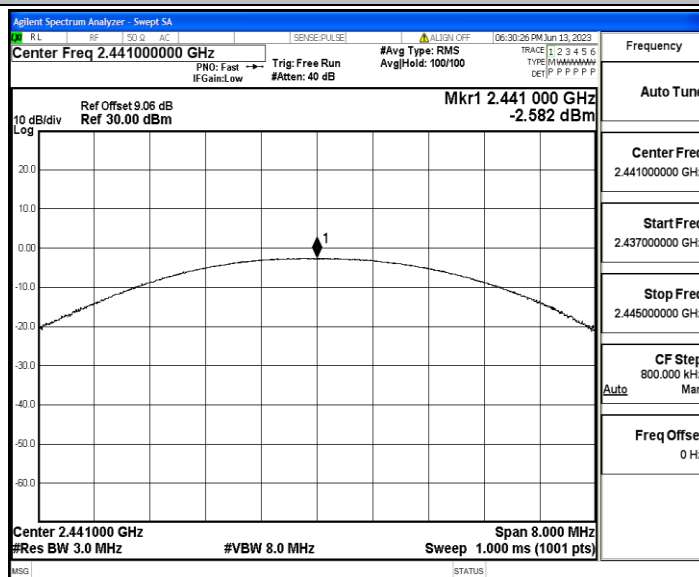
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-3.57	≤30	PASS
		2441	-2.58	≤30	PASS
		2480	-2.54	≤30	PASS

Test Graphs

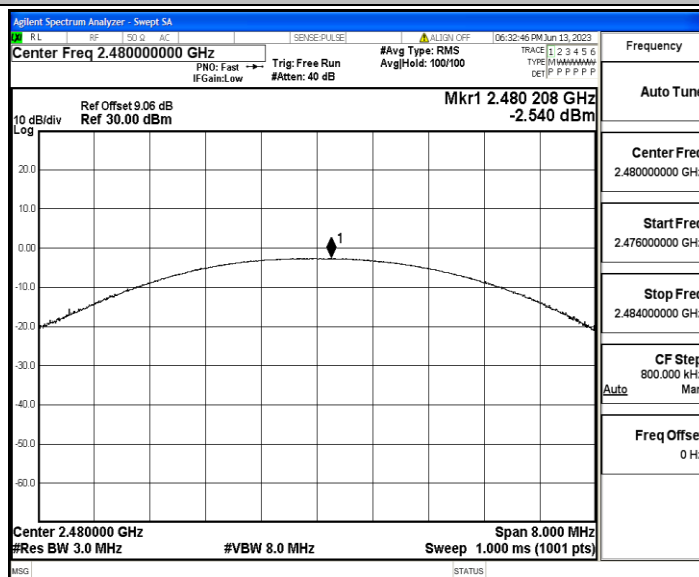
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

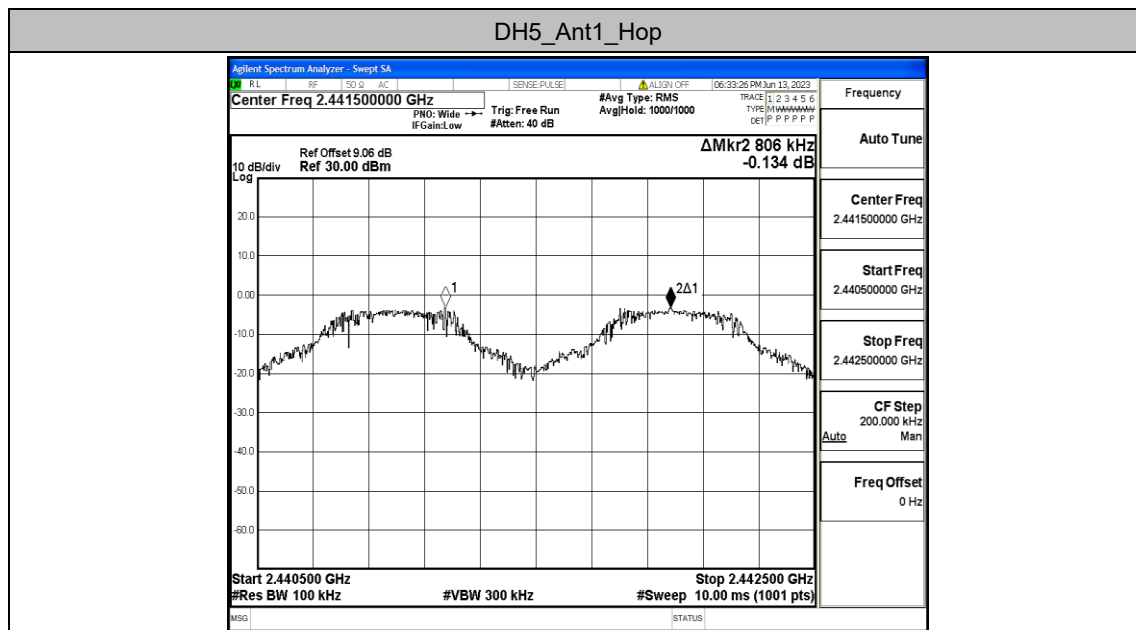


Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.806	≥ 0.696	PASS

Test Graphs

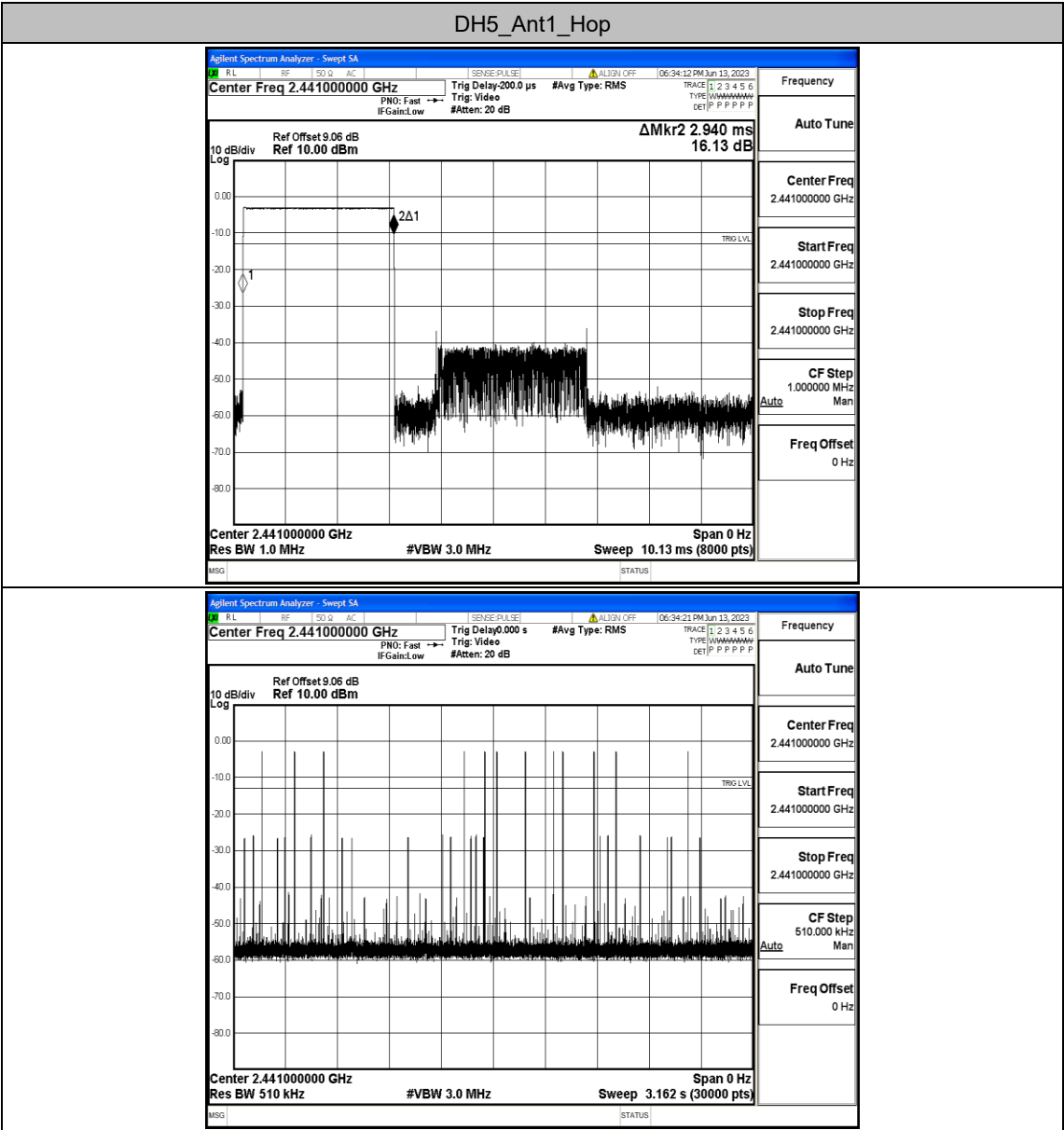


Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.940	130	0.382	≤0.4	PASS

Test Graphs

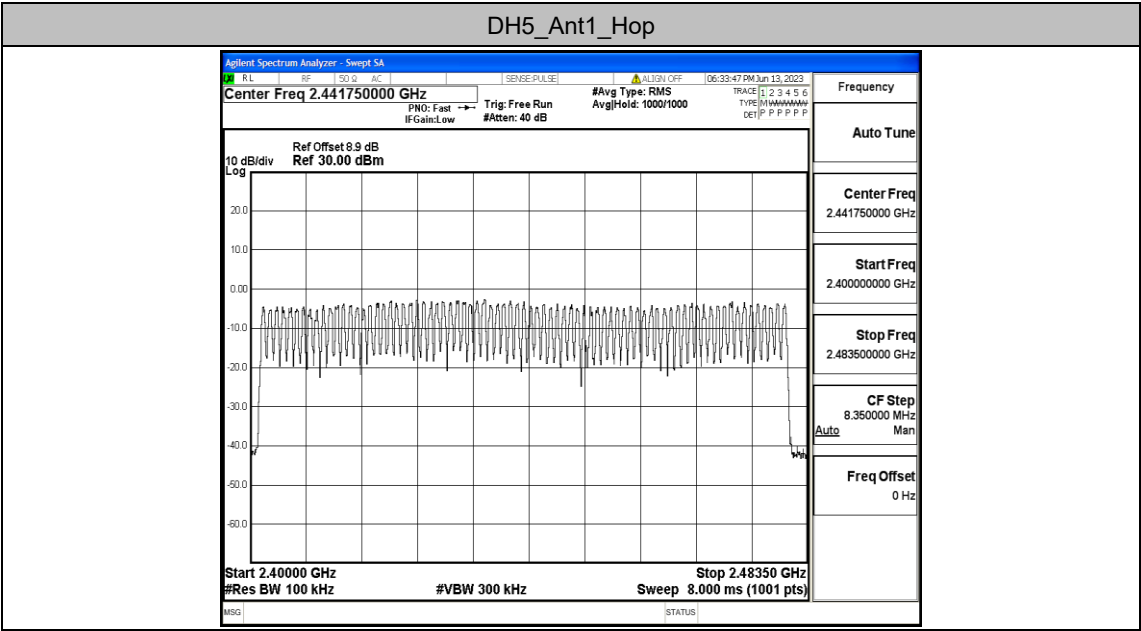


Appendix F: Number of hopping channels

Test Result

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

Test Graphs



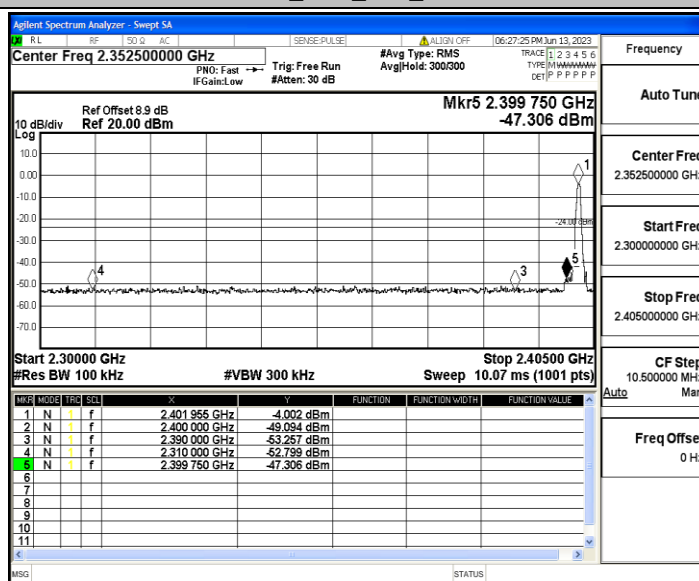
Appendix G: Band edge measurements

Test Result

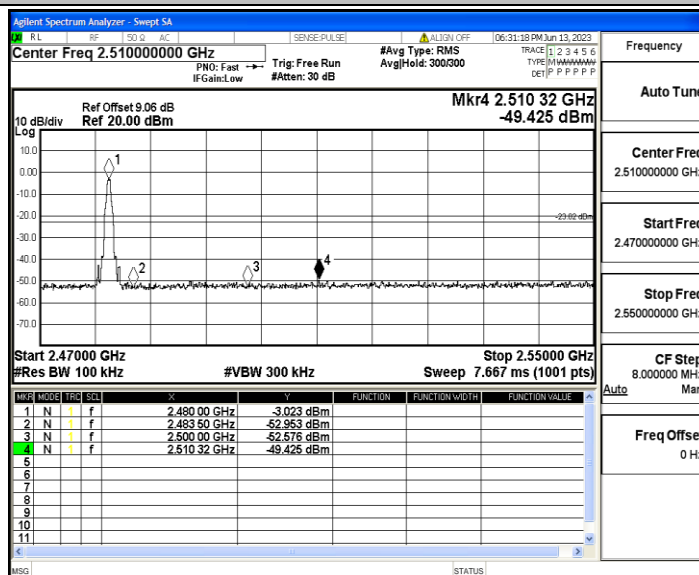
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.00	-47.31	≤ -24	PASS
		High	2480	-3.02	-49.43	≤ -23.02	PASS
		Low	Hop_2402	-5.01	-50.21	≤ -25.01	PASS
		High	Hop_2480	-3.52	-49.64	≤ -23.52	PASS

Test Graphs

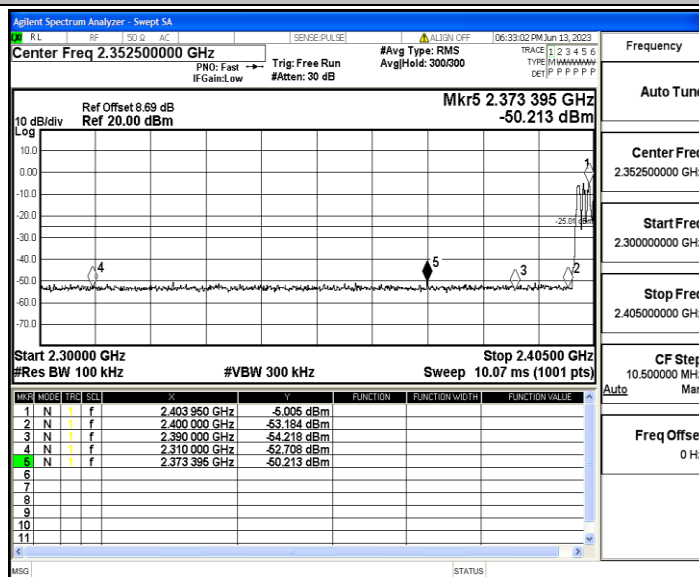
DH5_Ant1_Low_2402



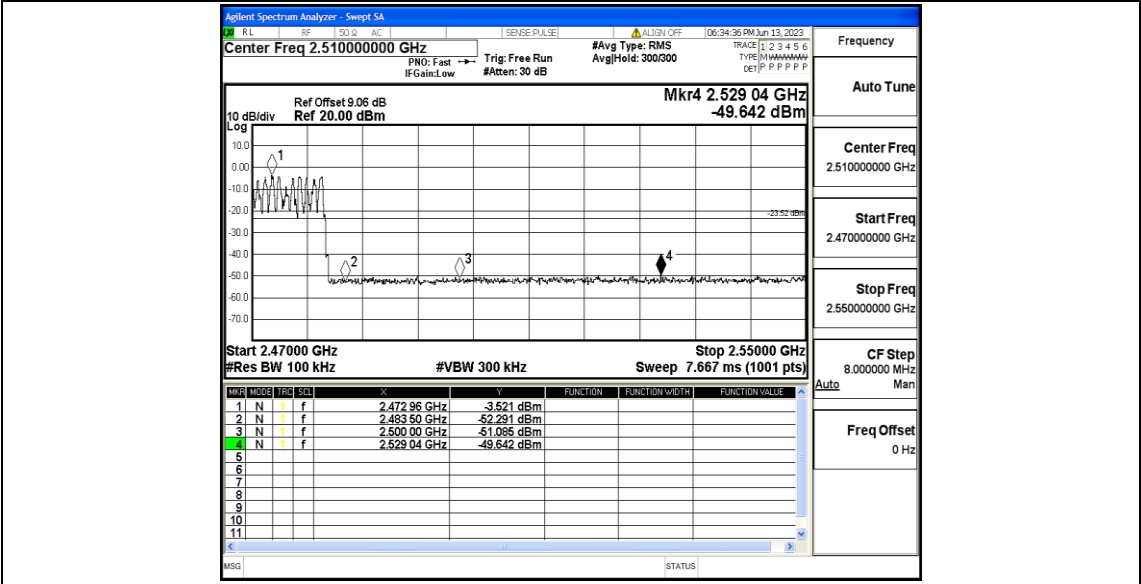
DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480



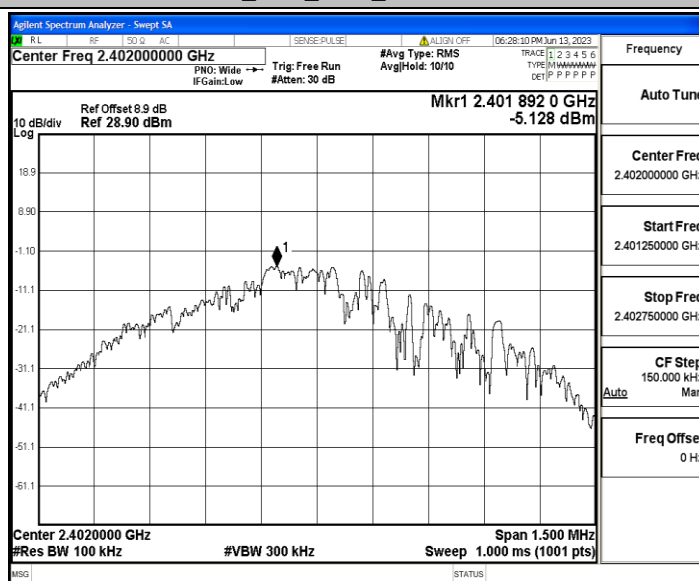
Appendix H: Conducted Spurious Emission

Test Result

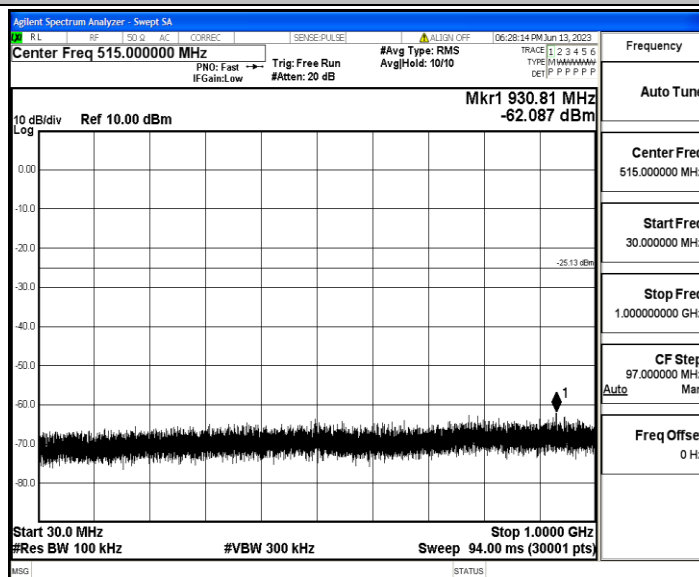
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-5.13	-5.13	---	PASS
			30~1000	-5.13	-62.09	≤ -25.13	PASS
			1000~26500	-5.13	-50.38	≤ -25.13	PASS
		2441	Reference	-3.87	-3.87	---	PASS
			30~1000	-3.87	-61.18	≤ -23.87	PASS
			1000~26500	-3.87	-50.14	≤ -23.87	PASS
		2480	Reference	-3.11	-3.11	---	PASS
			30~1000	-3.11	-62.6	≤ -23.11	PASS
			1000~26500	-3.11	-50.5	≤ -23.11	PASS

Test Graphs

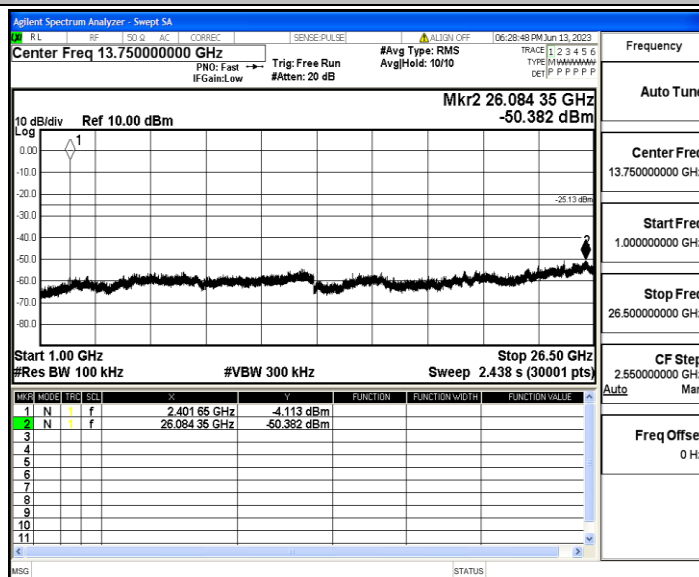
DH5_Ant1_2402_0~Reference



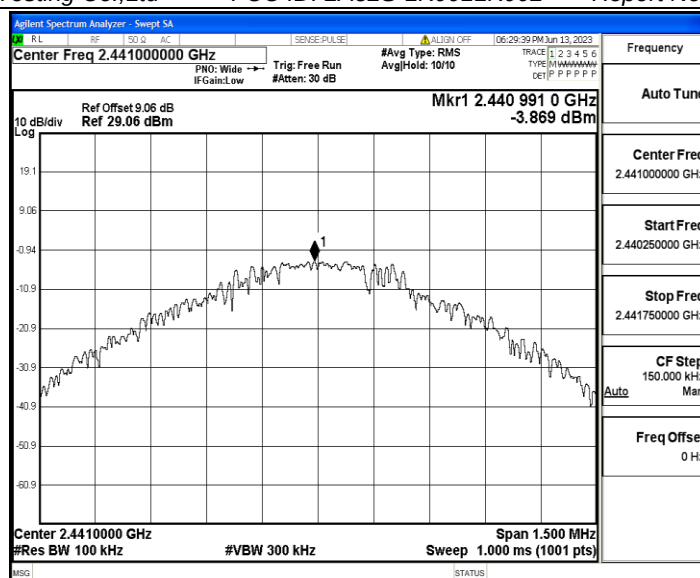
DH5_Ant1_2402_30~1000



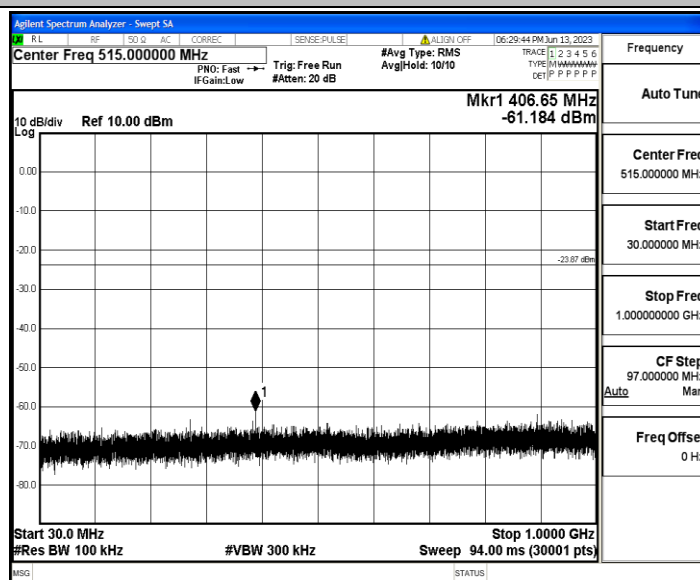
DH5_Ant1_2402_1000~26500



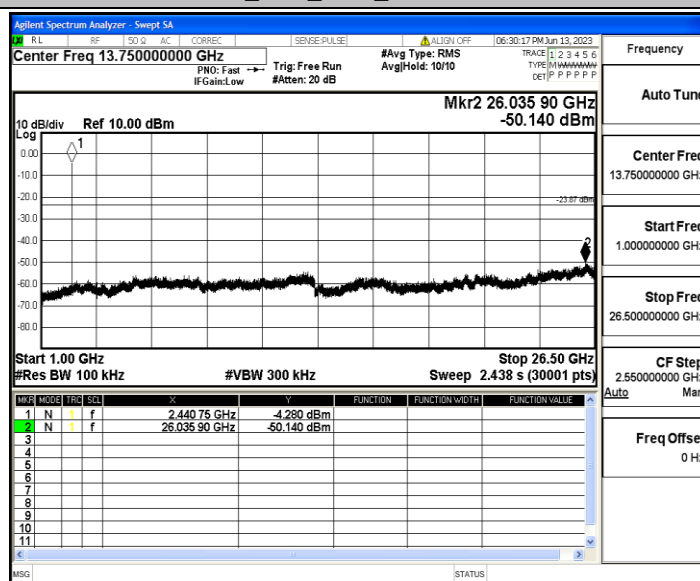
DH5_Ant1_2441_0~Reference



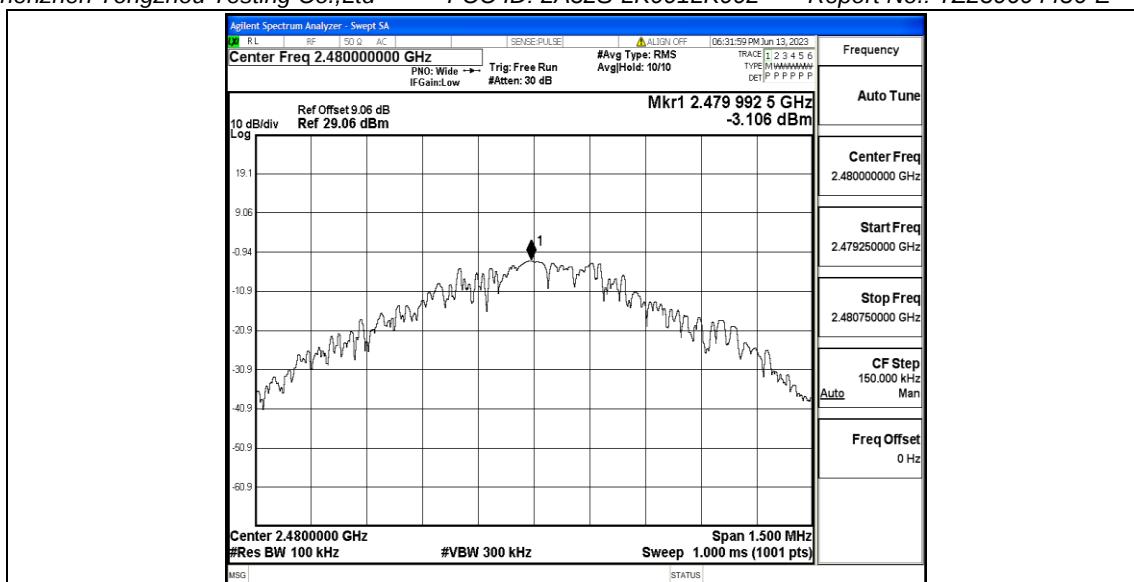
DH5_Ant1_2441_30~1000



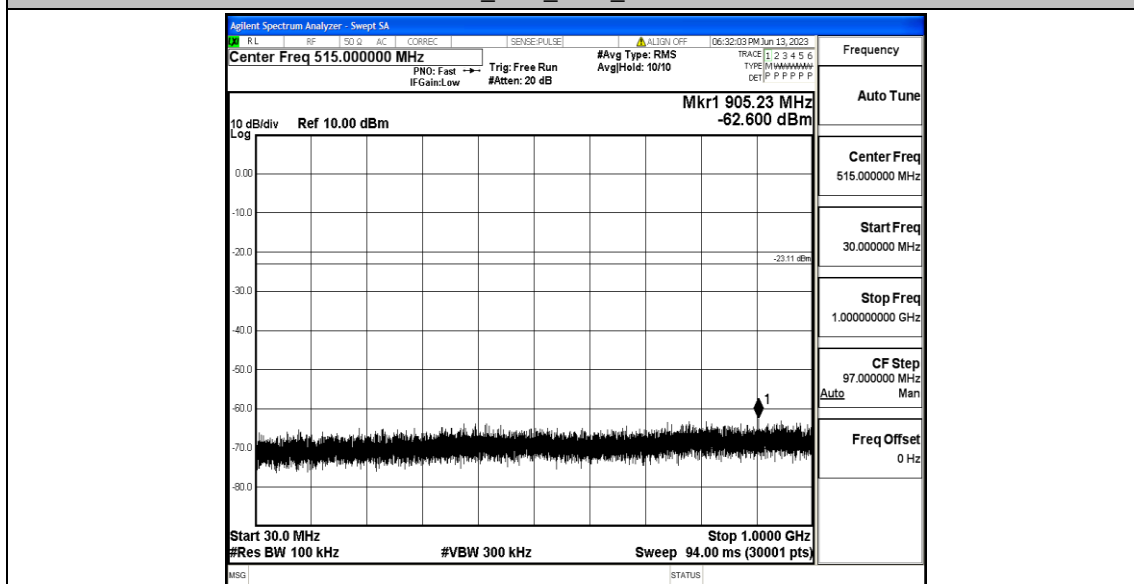
DH5_Ant1_2441_1000~26500



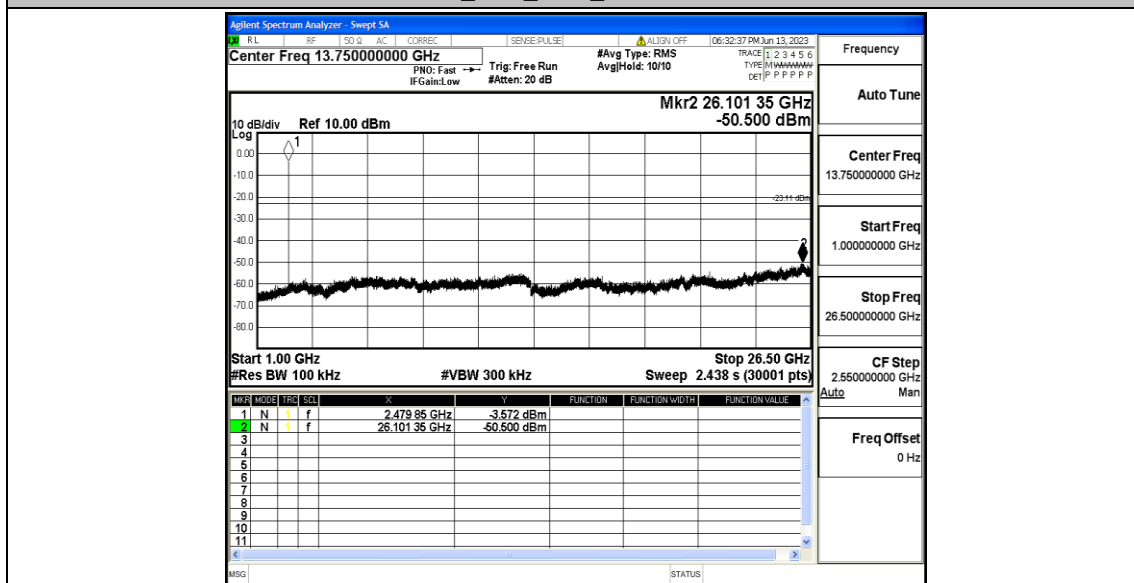
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



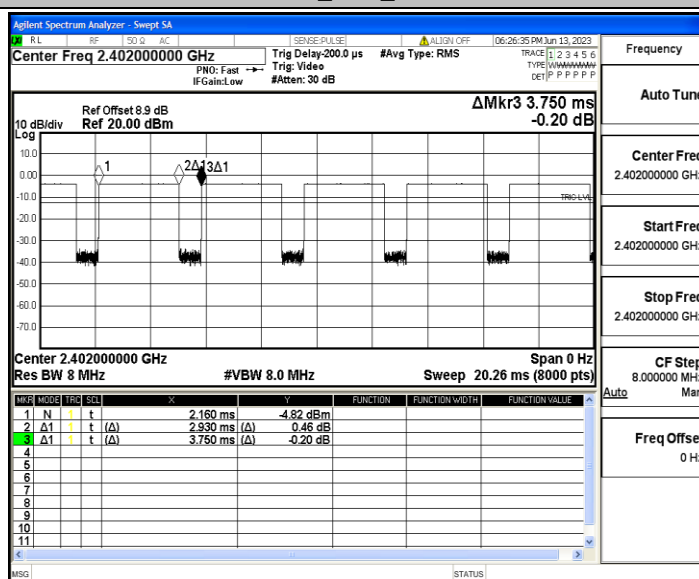
Appendix I: Duty Cycle

Test Result

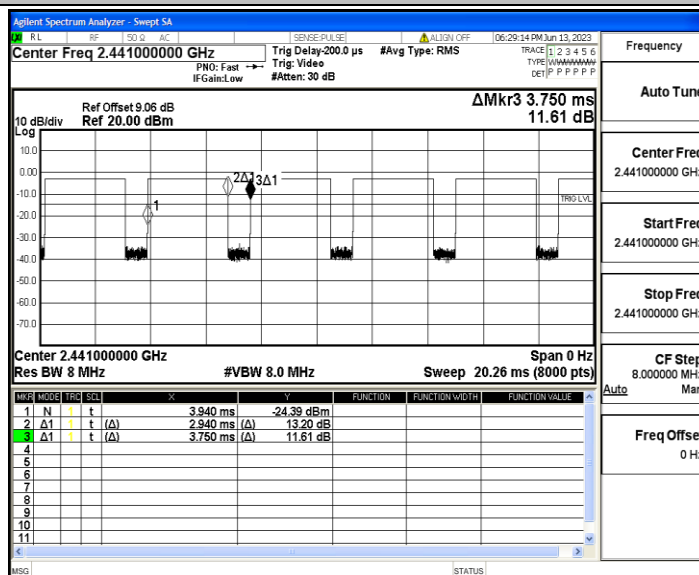
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
DH5	Ant1	2402	2.93	3.75	78.13	0.34
		2441	2.94	3.75	78.40	0.34
		2480	2.94	3.75	78.40	0.34

Test Graphs

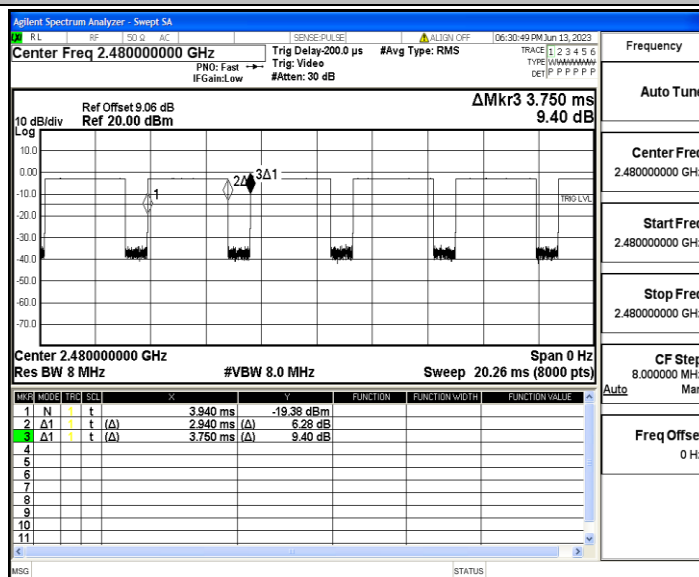
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



Appendix J: Emissions in Restricted Bands

Test Result

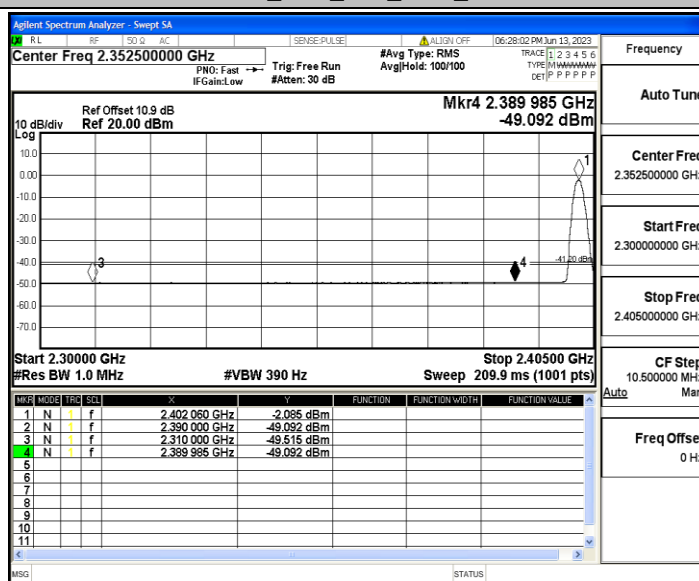
TestMode	Antenna	ChName	Channel	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.52	≤-41.20	PASS
				AV	2389.985	-49.09	≤-41.20	PASS
				AV	2390.000	-49.09	≤-41.20	PASS
				Peak	2310.000	-42.95	≤-21.20	PASS
				Peak	2389.670	-39.45	≤-21.20	PASS
				Peak	2390.000	-41.51	≤-21.20	PASS
		High	2480	AV	2483.500	-48.58	≤-41.20	PASS
				AV	2498.400	-48.43	≤-41.20	PASS
				AV	2500.000	-48.53	≤-41.20	PASS
				Peak	2483.500	-37.41	≤-21.20	PASS
				Peak	2483.520	-37.41	≤-21.20	PASS
				Peak	2500.000	-40.14	≤-21.20	PASS

Note:

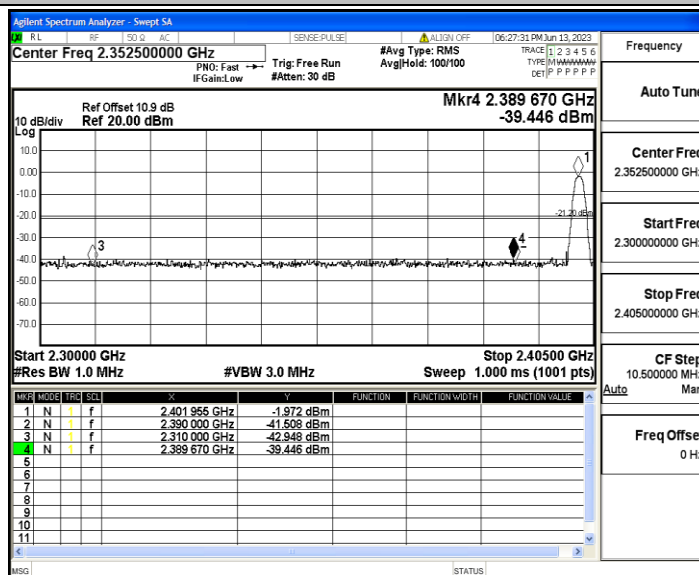
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

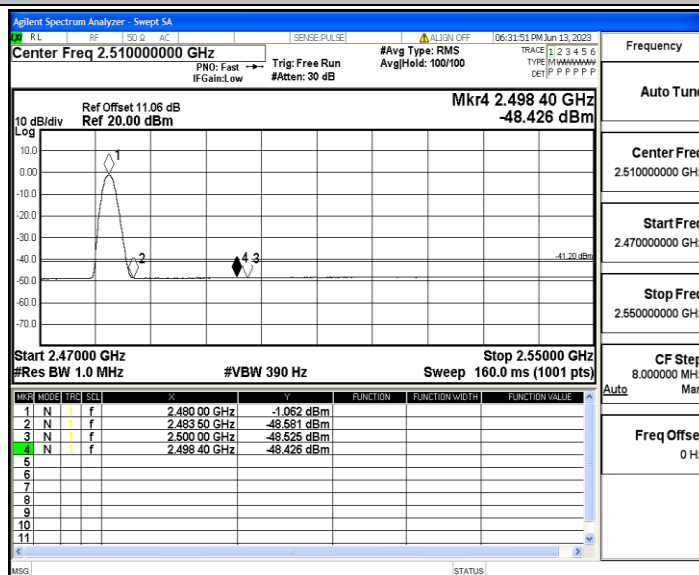
DH5_Ant1_Low_2402_AV



DH5_Ant1_Low_2402_Peak



DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak

