

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

**Product Name: Bluetooth Mechanical Keyboard**

**Trade Mark: Keychron**

**Test Model: Keychron K6 Pro**

**FCC ID: 2ASF4-K6PRO**

### Environmental Conditions

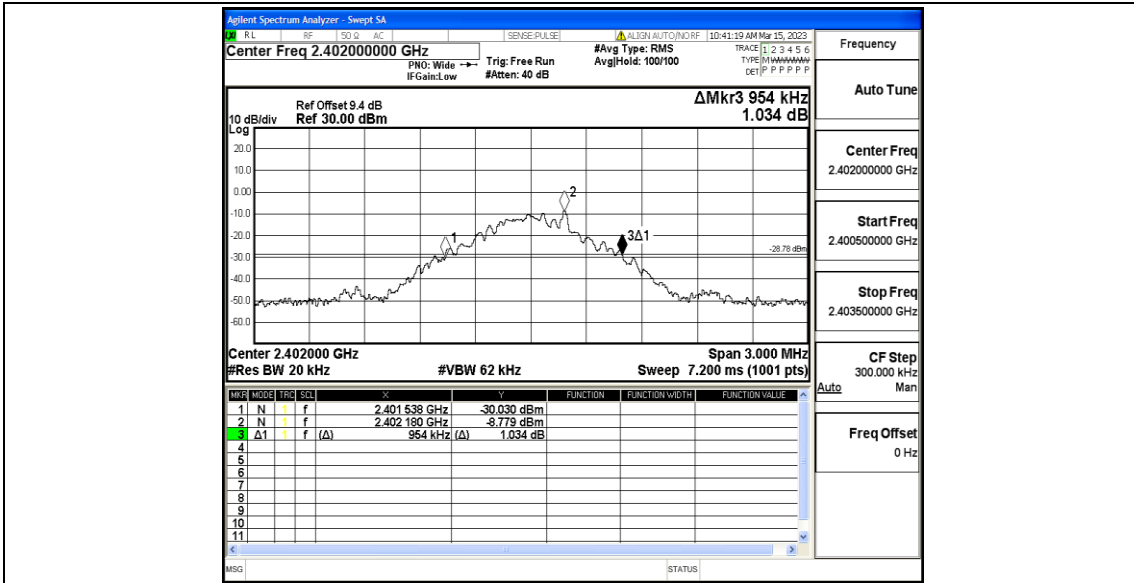
Temperature:	22.8°C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

## Appendix A: 20dB Emission Bandwidth

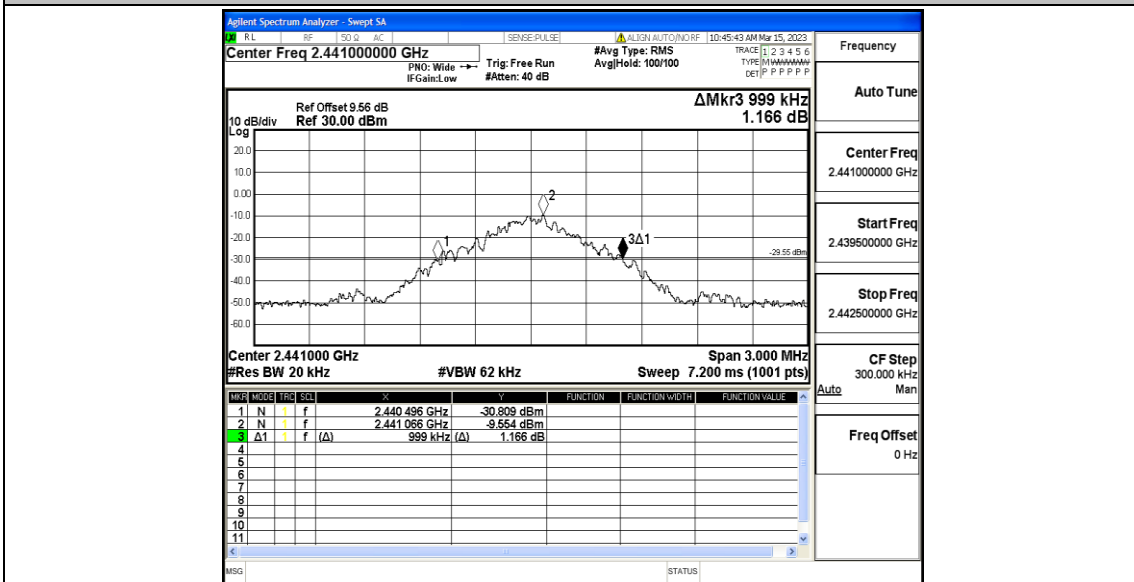
### Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.538	2402.492	---	---
		2441	0.999	2440.496	2441.495	---	---
		2480	0.987	2479.544	2480.531	---	---

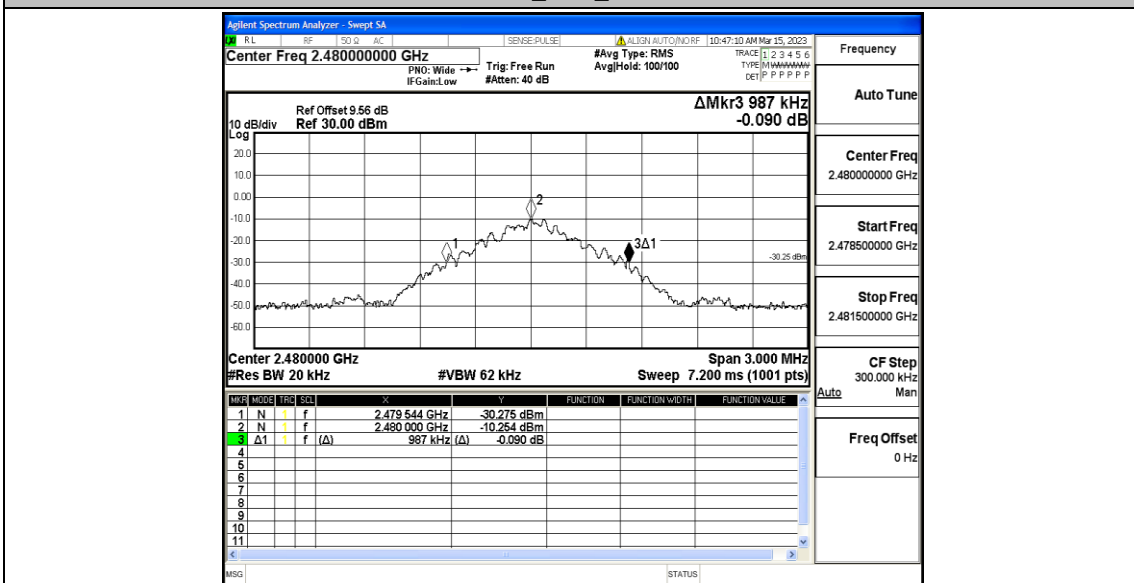
Test Graphs



DH5\_Ant1\_2402



DH5\_Ant1\_2441



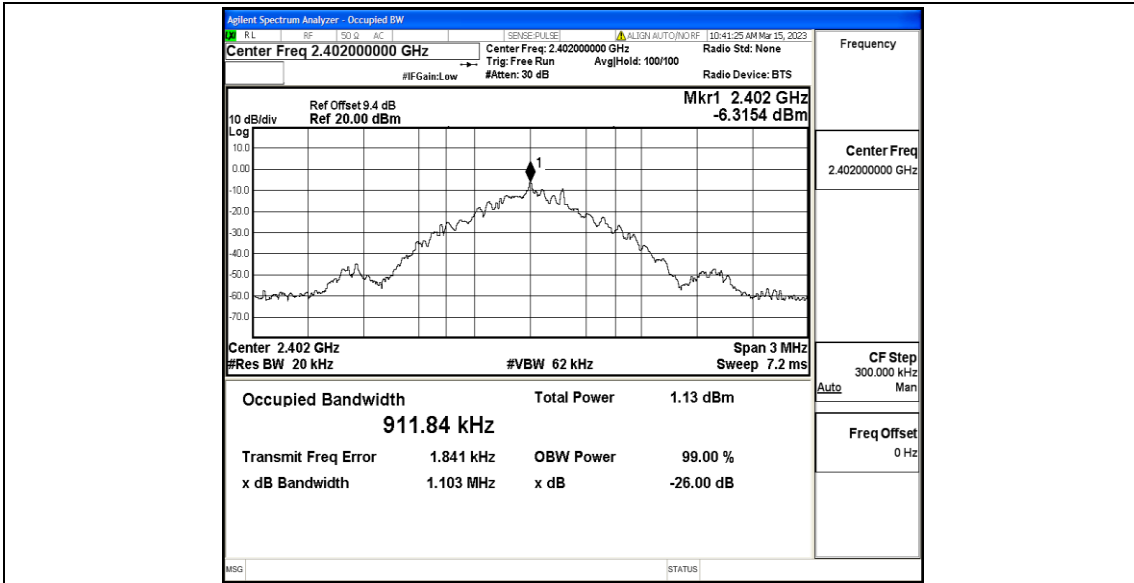
DH5\_Ant1\_2480

## Appendix B: Occupied Channel Bandwidth

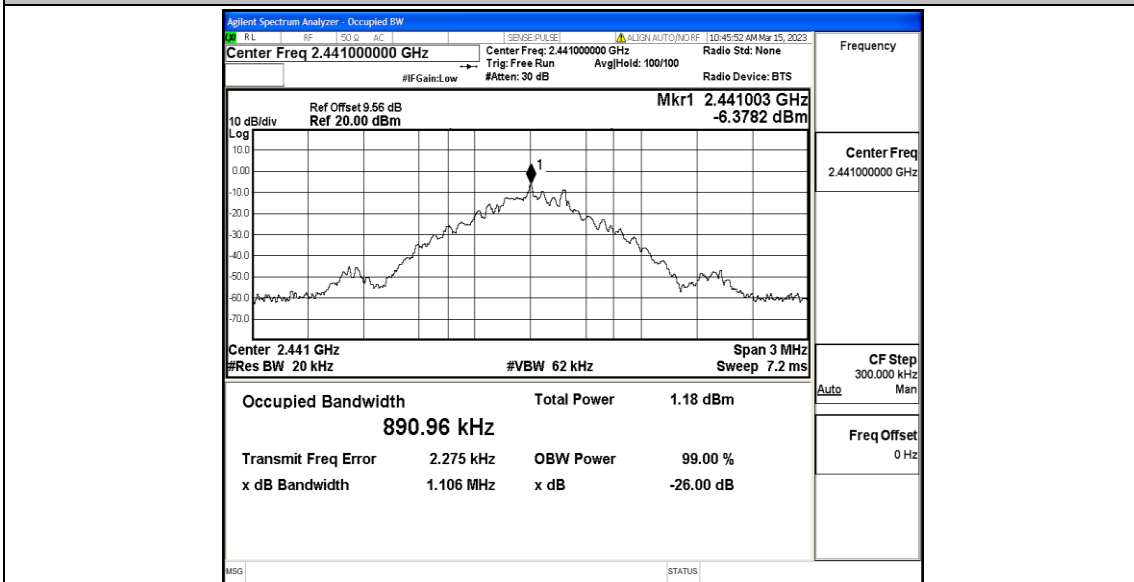
### Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.91184	2401.5459	2402.4578	---	---
		2441	0.89096	2440.5568	2441.4478	---	---
		2480	0.91516	2479.5530	2480.4682	---	---

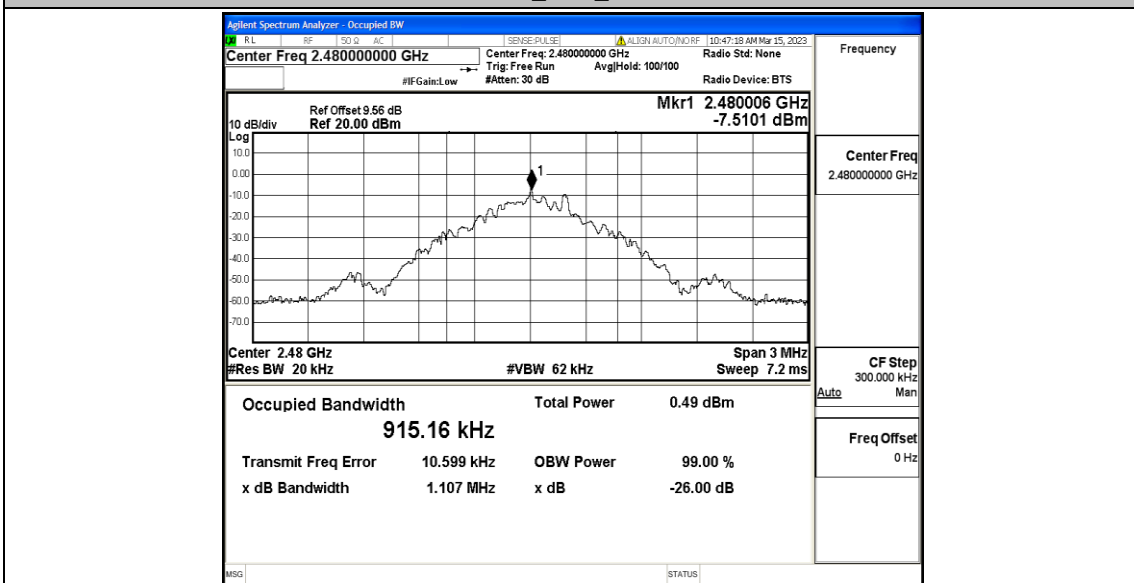
### Test Graphs



DH5\_Ant1\_2402



DH5\_Ant1\_2441



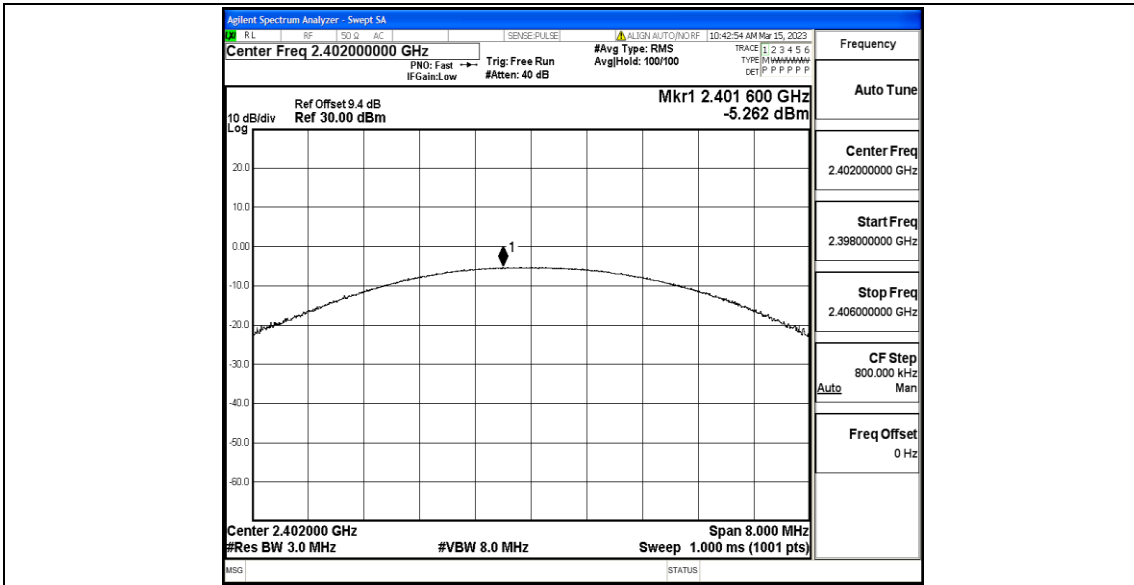
DH5\_Ant1\_2480

## Appendix C: Maximum Peak conducted output power

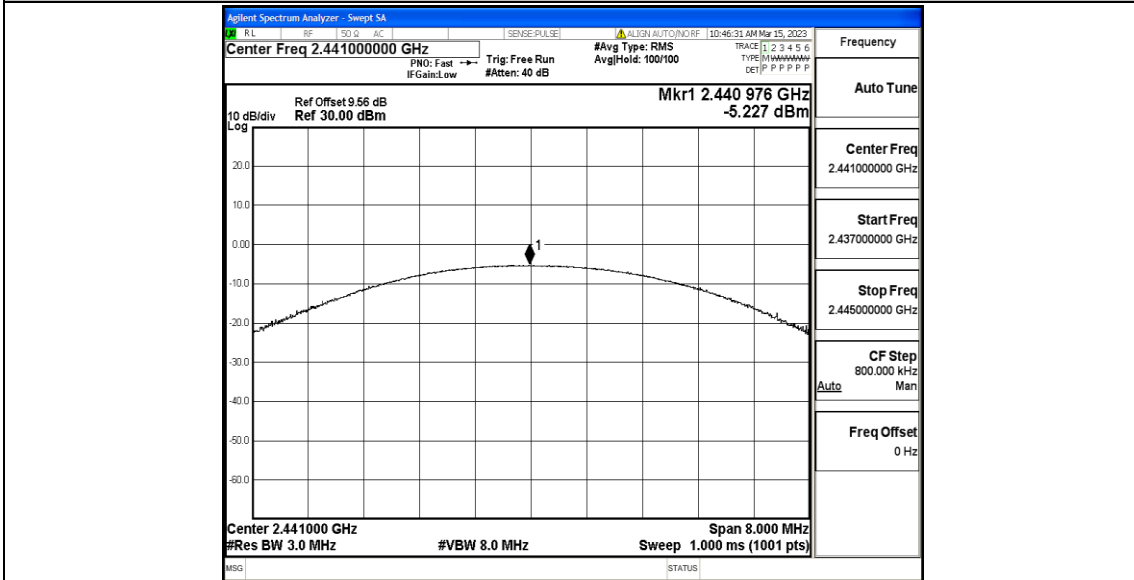
### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-5.26	≤20.97	PASS
		2441	-5.23	≤20.97	PASS
		2480	-5.83	≤20.97	PASS

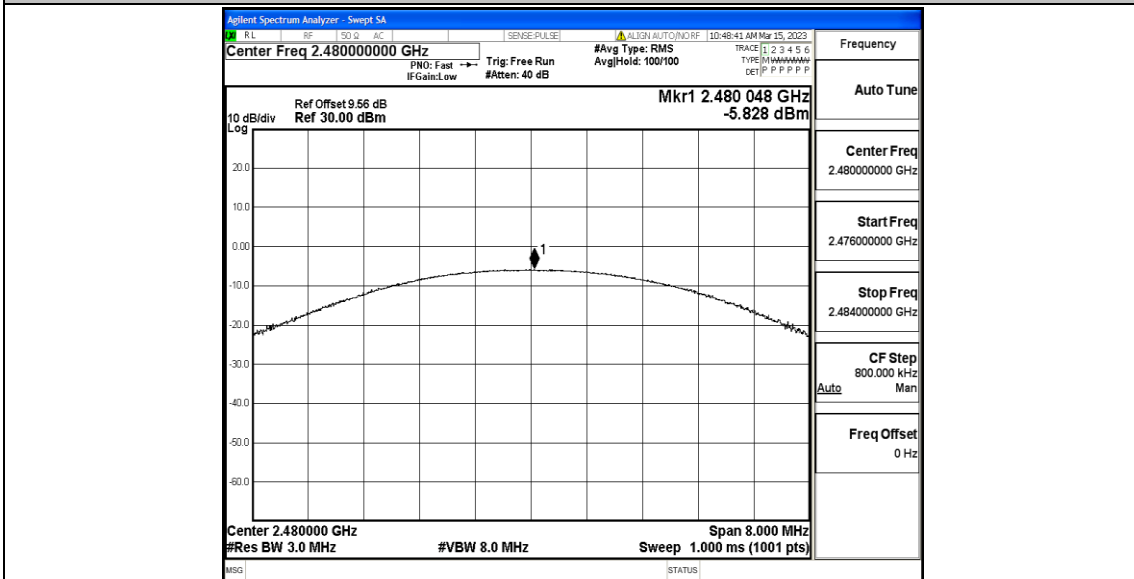
### Test Graphs



DH5\_Ant1\_2402



DH5\_Ant1\_2441



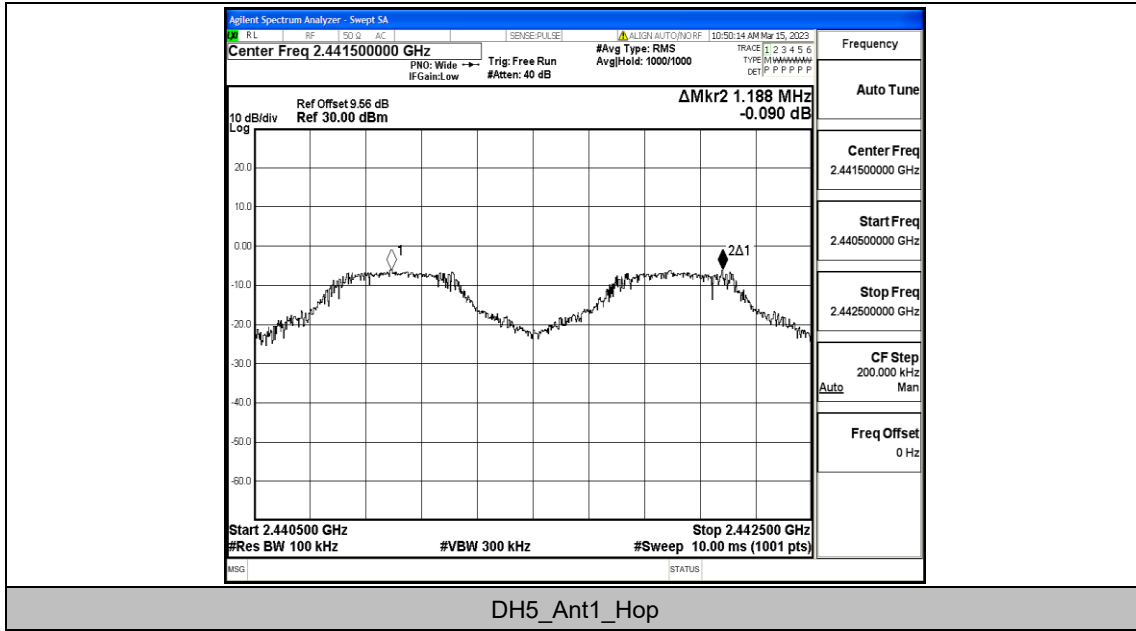
DH5\_Ant1\_2480

## Appendix D: Carrier frequency separation

### Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.188	≥0.999	PASS

### Test Graphs



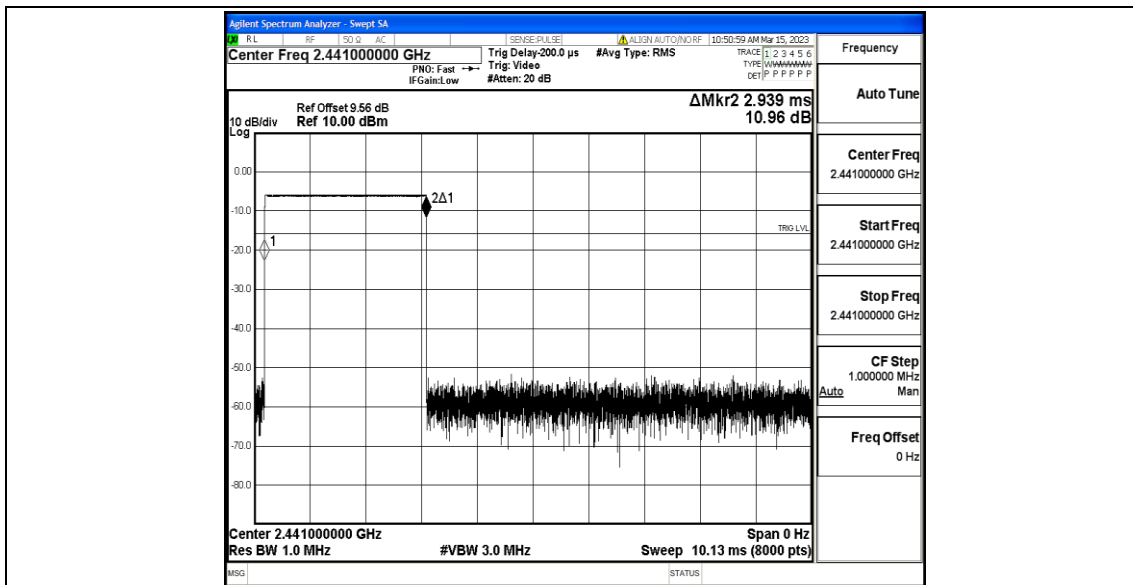


## Appendix E: Time of occupancy

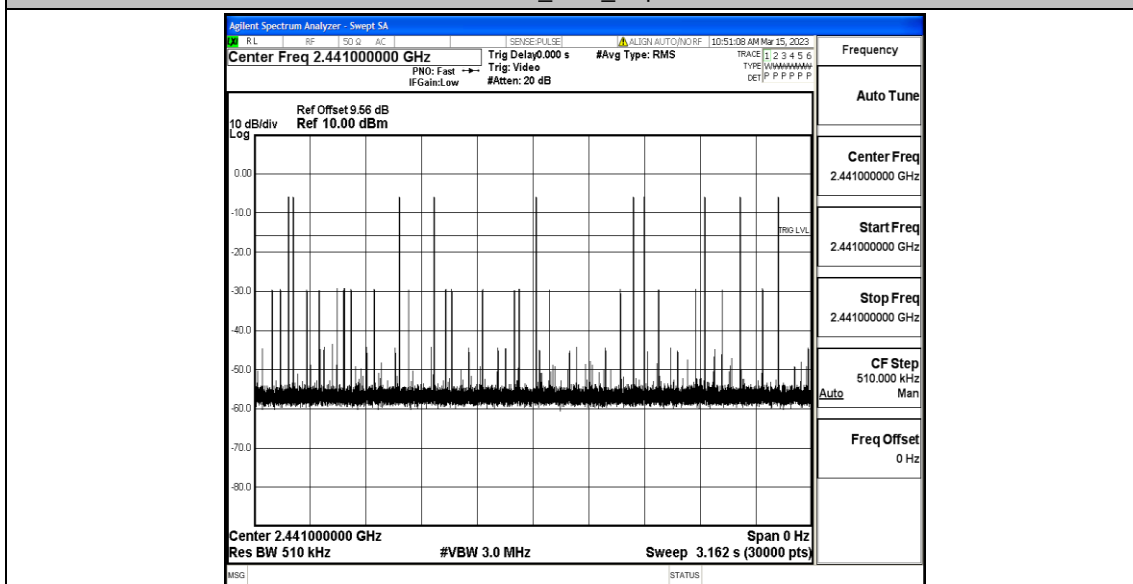
### Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.939	110	0.323	≤0.4	PASS

### Test Graphs



DH5\_Ant1\_Hop



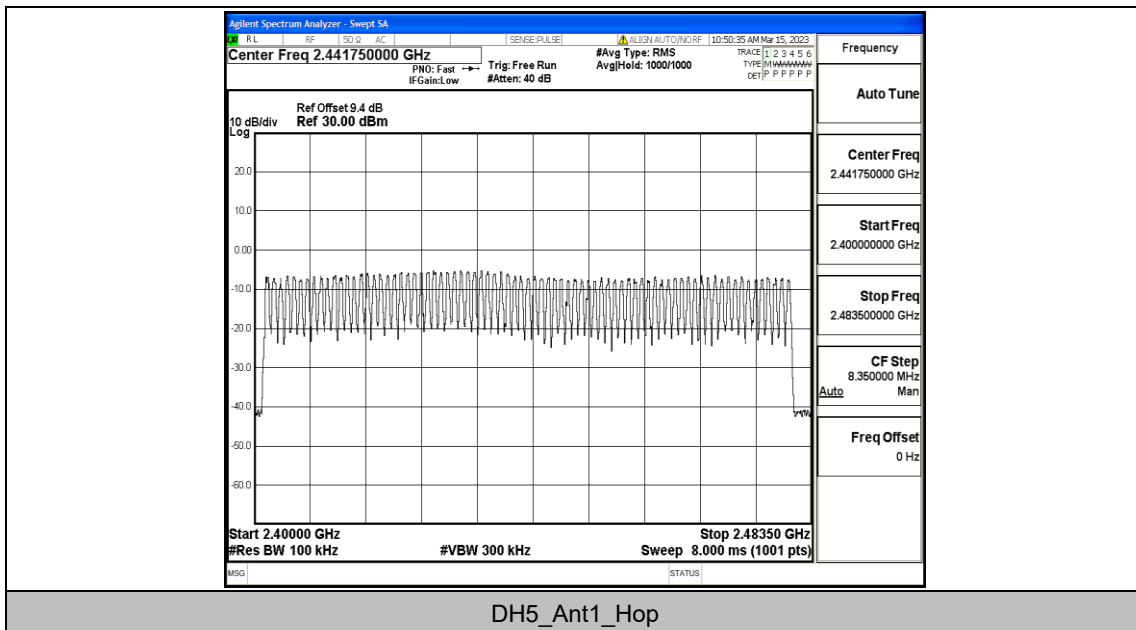
DH5\_Ant1\_Hop

## Appendix F: Number of hopping channels

### Test Result

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

### Test Graphs

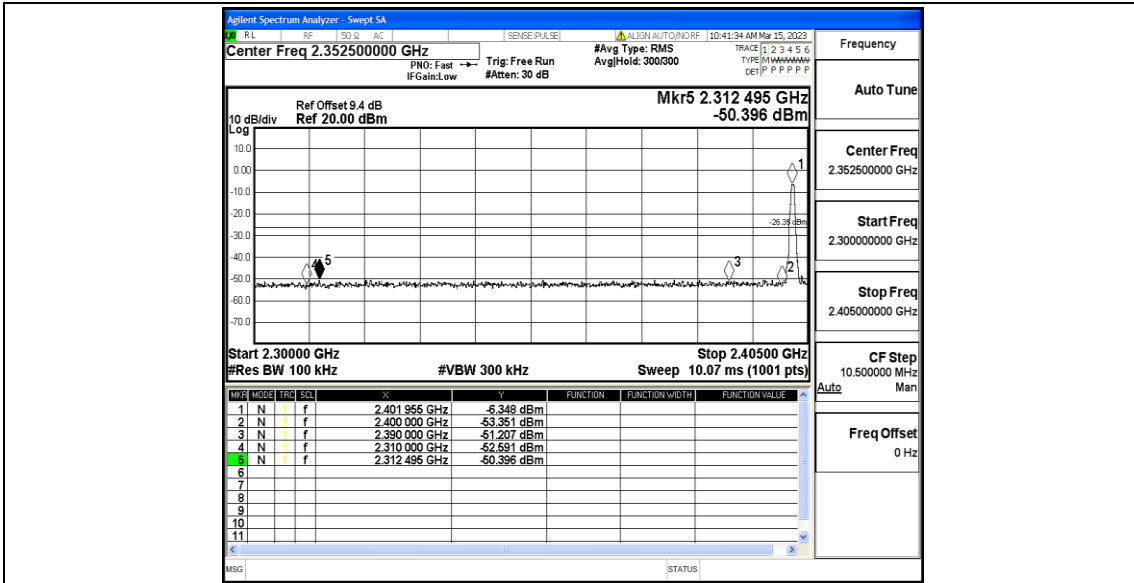


## Appendix G: Band edge measurements

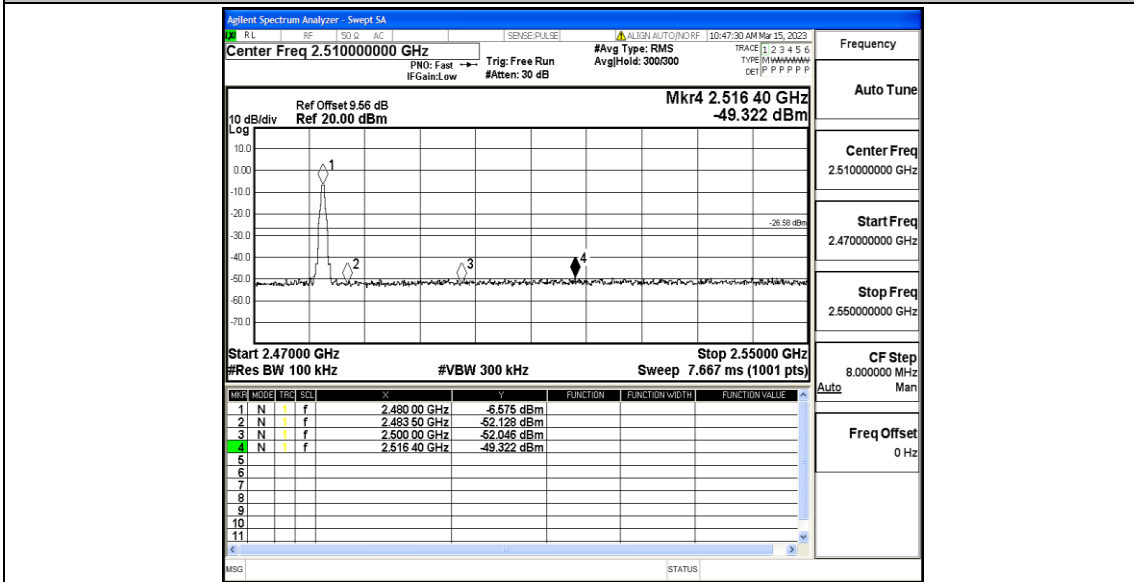
### Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-6.35	-50.4	≤-26.35	PASS
		High	2480	-6.58	-49.32	≤-26.58	PASS
		Low	Hop_2402	-6.45	-49.8	≤-26.45	PASS
		High	Hop_2480	-6.72	-48.67	≤-26.72	PASS

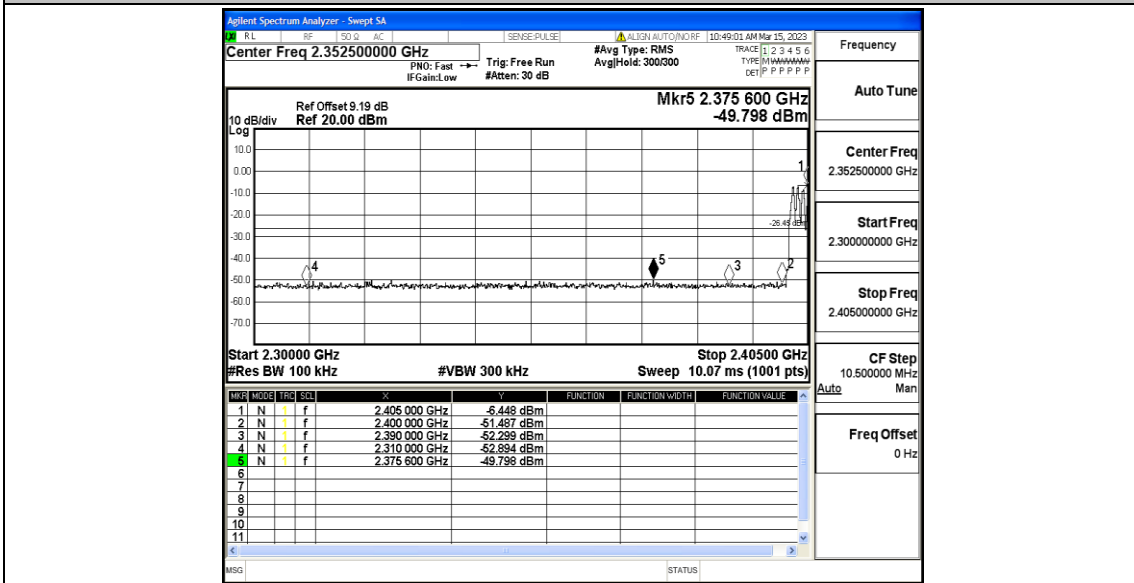
Test Graphs



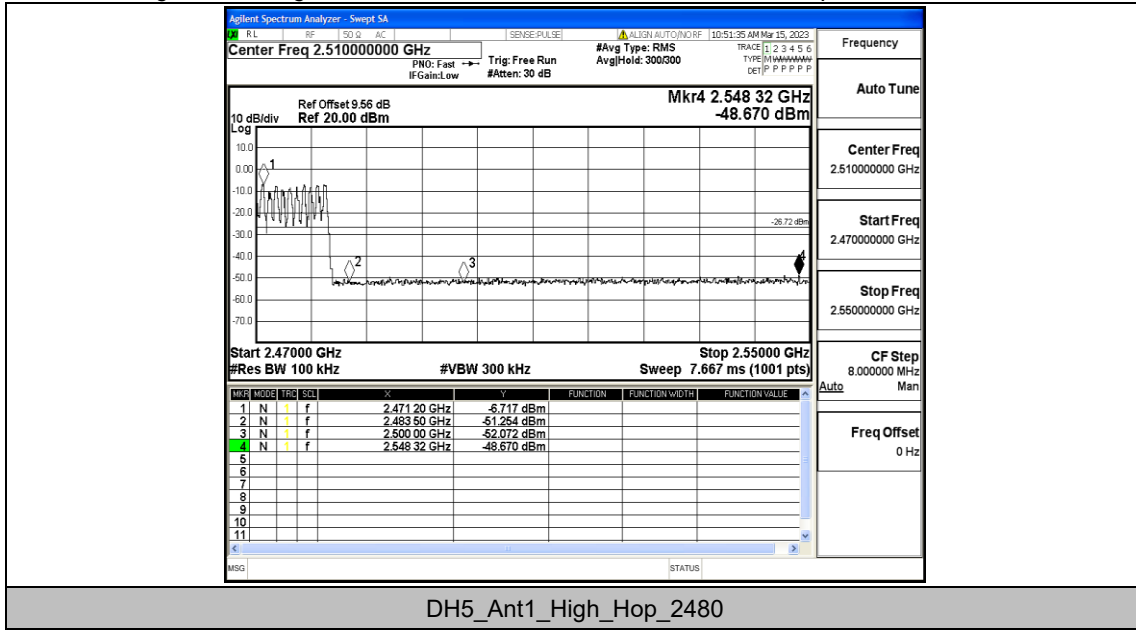
DH5\_Ant1\_Low\_2402



DH5\_Ant1\_High\_2480



DH5\_Ant1\_Low\_Hop\_2402



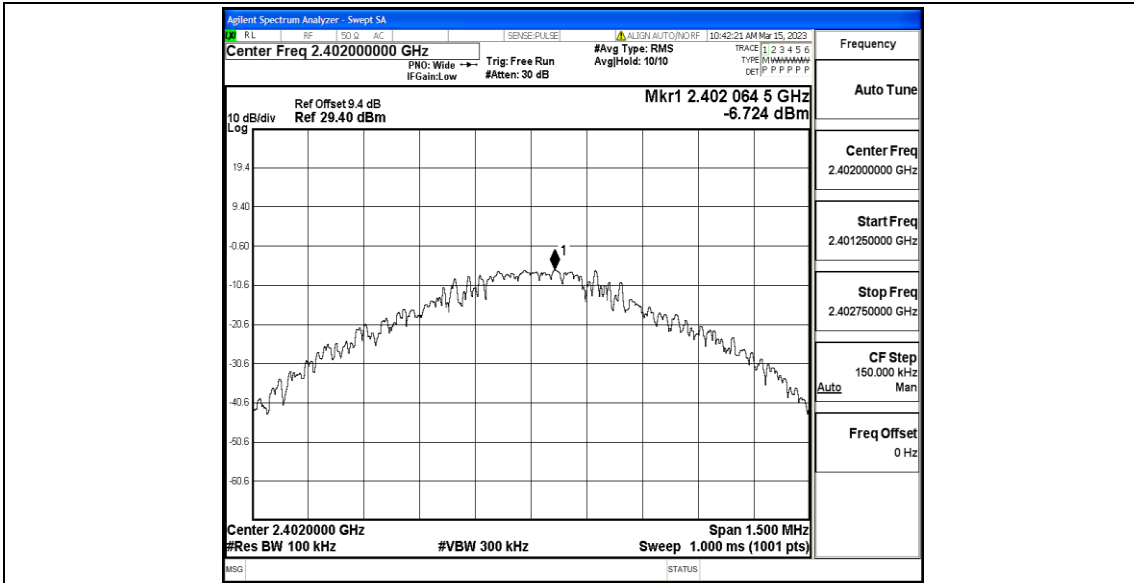
## Appendix H: Conducted Spurious Emission

### Test Result

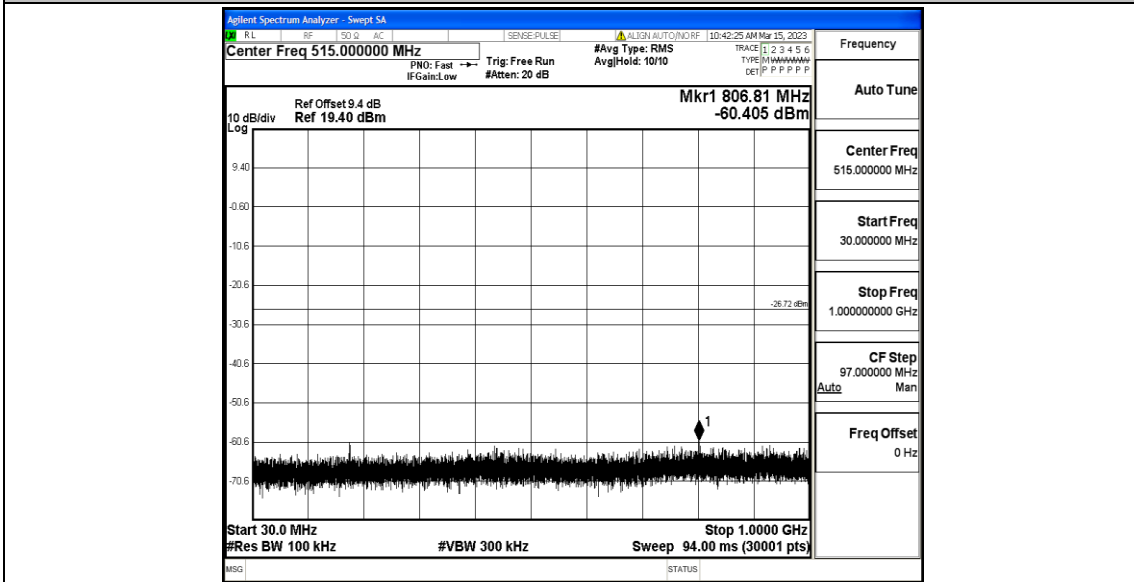
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-6.72	-6.72	---	PASS
			30~1000	-6.72	-60.41	≤-26.72	PASS
			1000~26500	-6.72	-51.39	≤-26.72	PASS
		2441	Reference	-6.74	-6.74	---	PASS
			30~1000	-6.74	-60.79	≤-26.74	PASS
			1000~26500	-6.74	-51.3	≤-26.74	PASS
		2480	Reference	-6.62	-6.62	---	PASS
			30~1000	-6.62	-61.05	≤-26.62	PASS
			1000~26500	-6.62	-50.71	≤-26.62	PASS



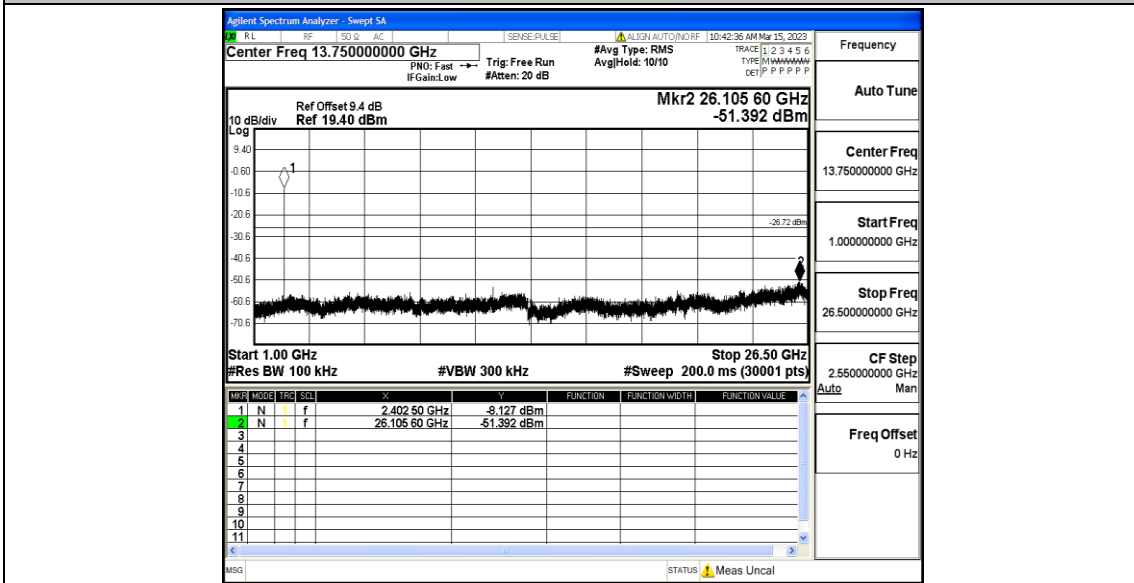
Test Graphs



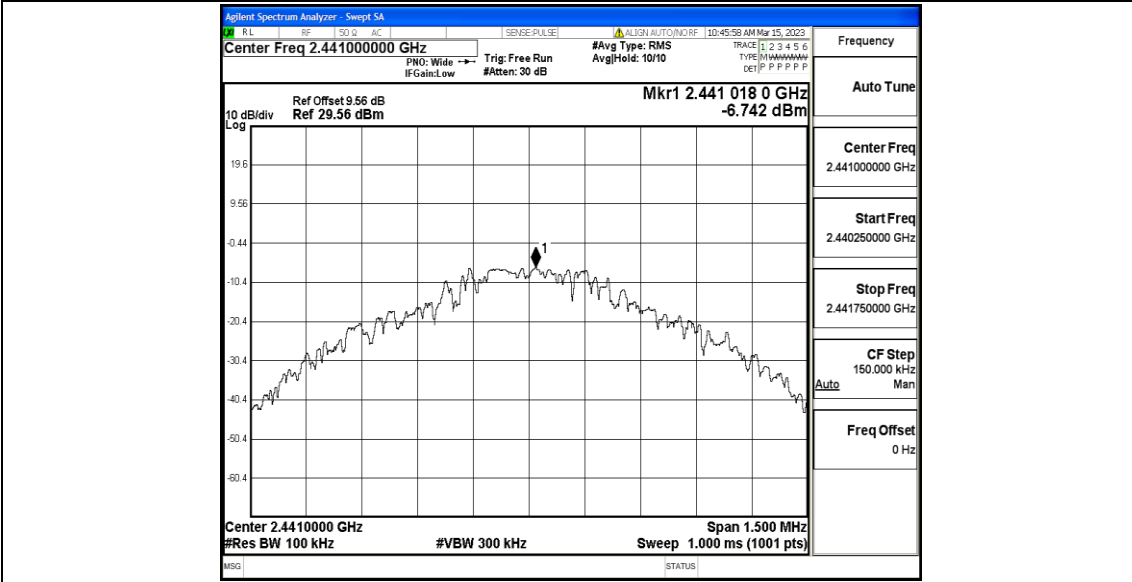
DH5\_Ant1\_2402\_0~Reference



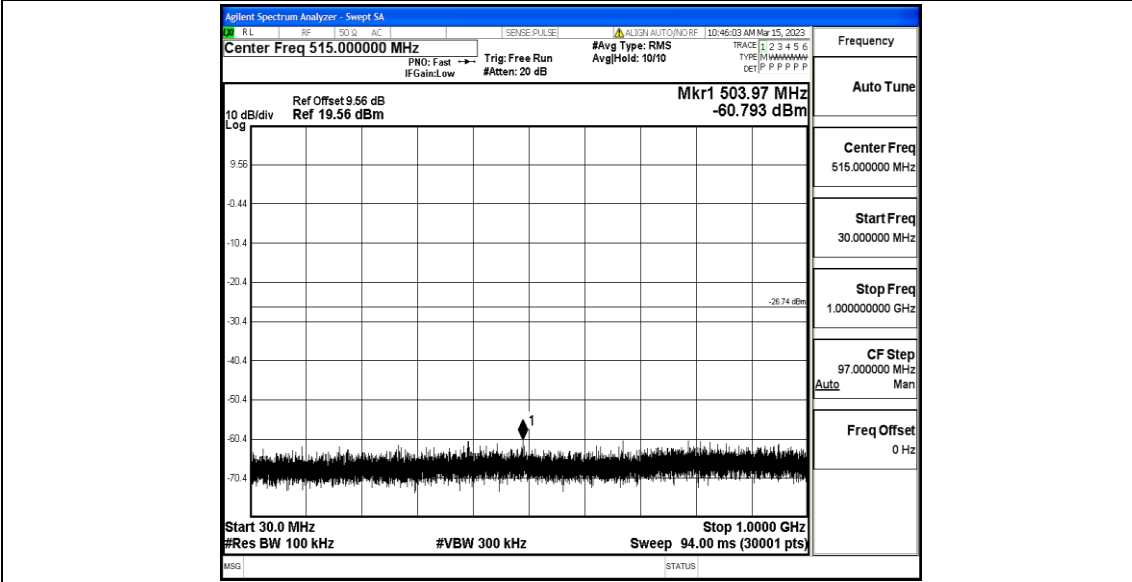
DH5\_Ant1\_2402\_30~1000



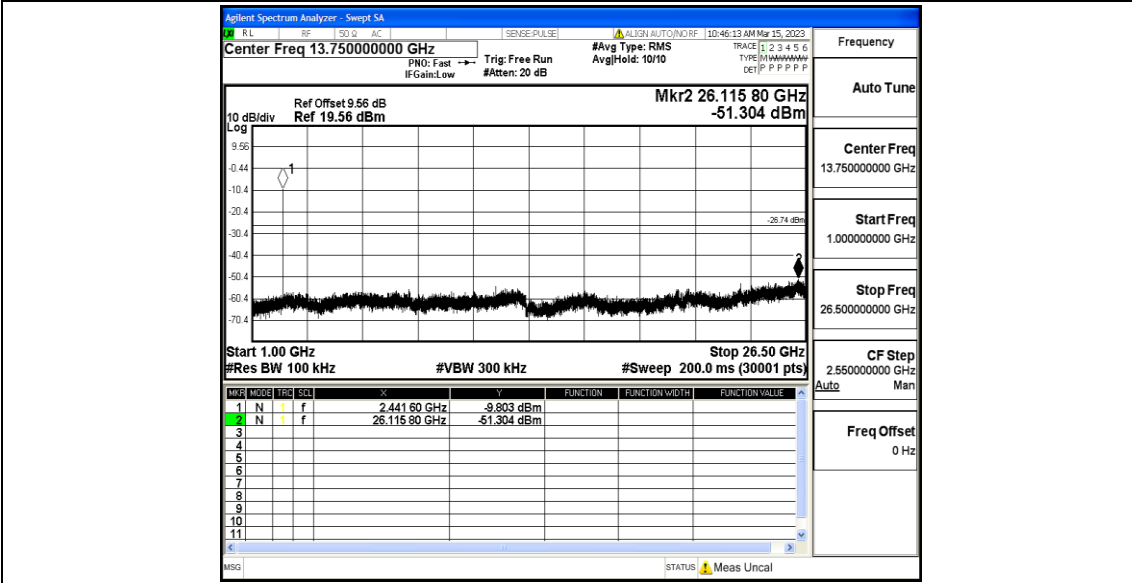
DH5\_Ant1\_2402\_1000~26500



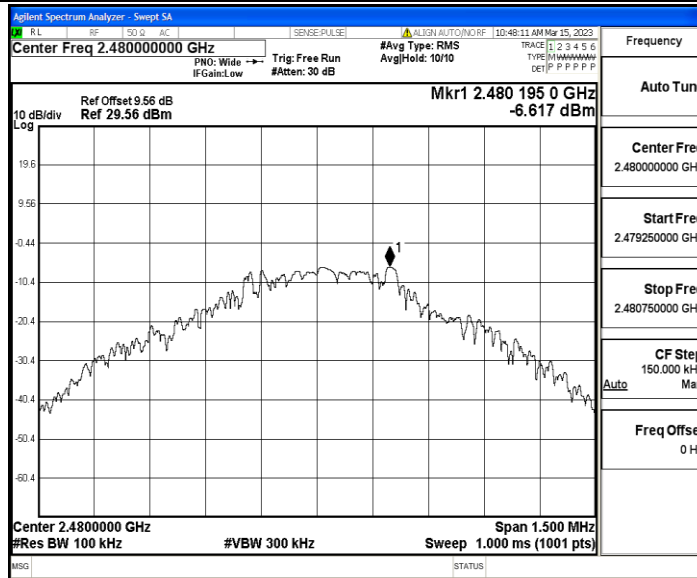
DH5\_Ant1\_2441\_0~Reference



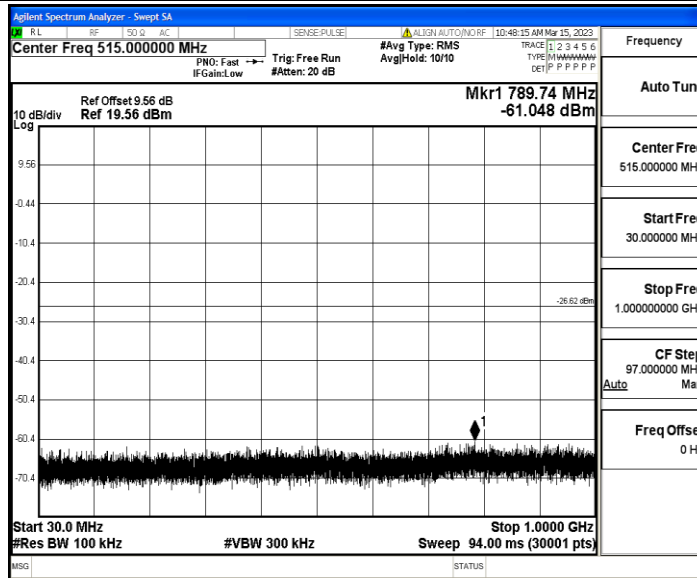
DH5\_Ant1\_2441\_30~1000



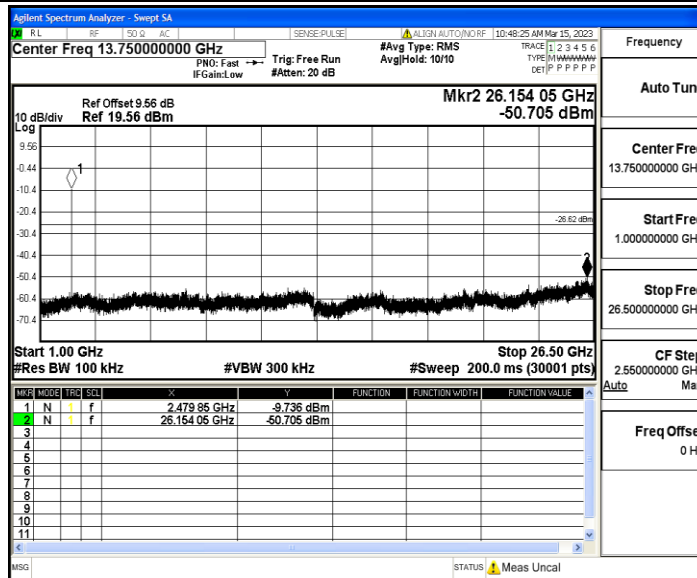
DH5\_Ant1\_2441\_1000~26500



DH5\_Ant1\_2480\_0~Reference



DH5\_Ant1\_2480\_30~1000



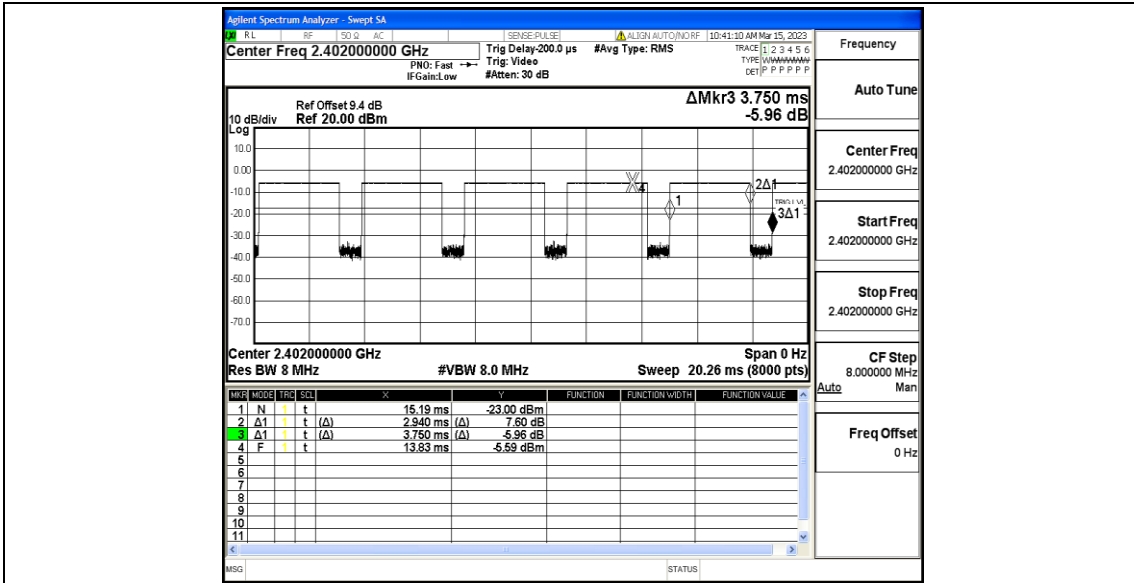
DH5\_Ant1\_2480\_1000~26500

## Appendix I: Duty Cycle

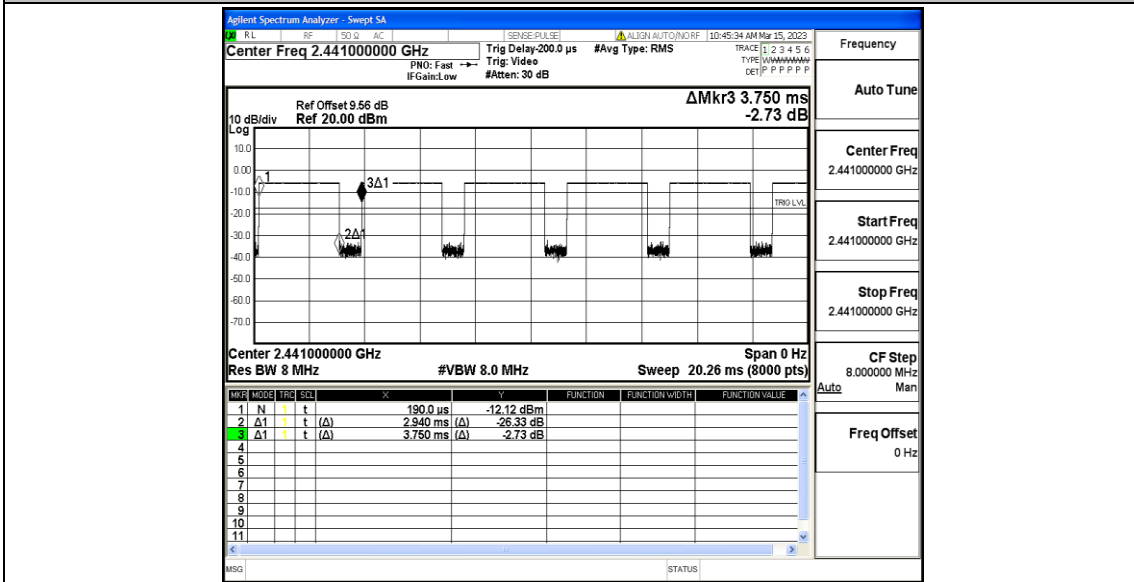
### Test Result

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

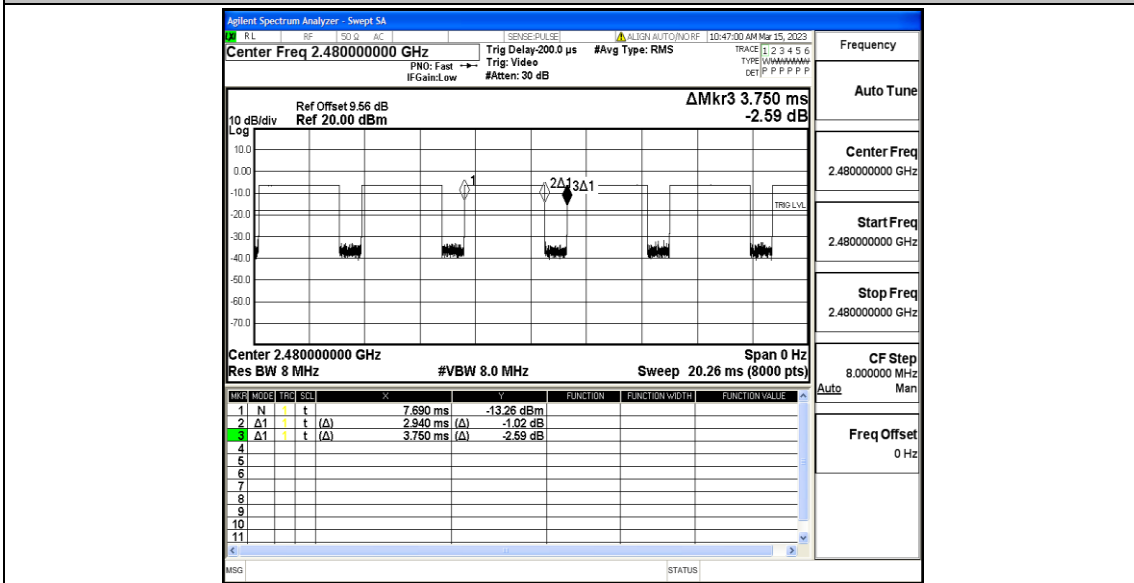
Test Graphs



DH5\_Ant1\_2402



DH5\_Ant1\_2441



DH5\_Ant1\_2480

## Appendix J: Emissions in Restricted Bands

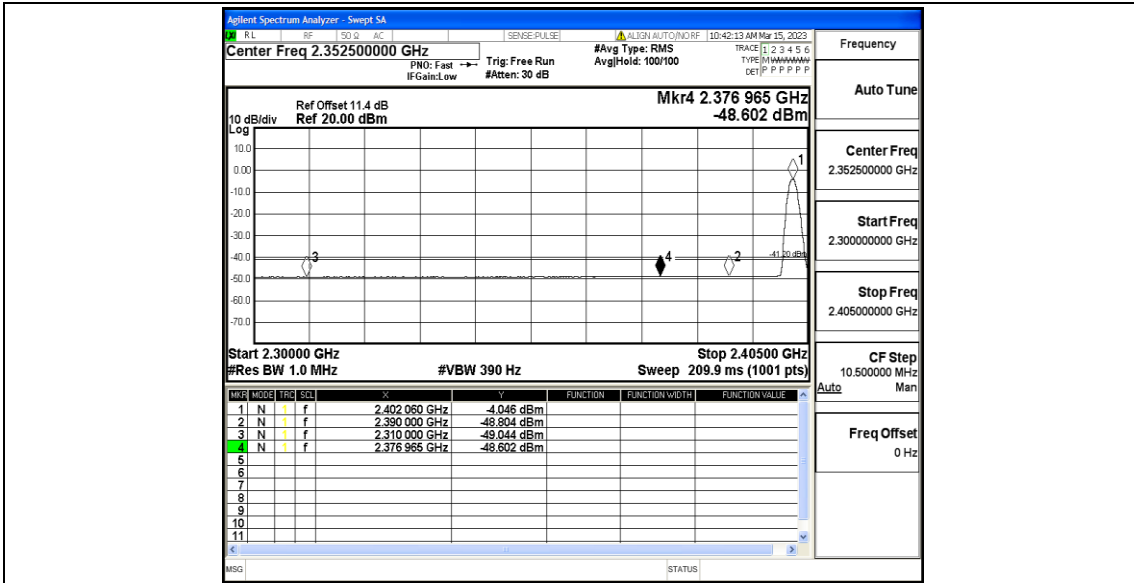
### Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.04	≤-41.20	PASS
				AV	2376.965	-48.6	≤-41.20	PASS
				AV	2390.000	-48.8	≤-41.20	PASS
				Peak	2310.000	-42.65	≤-21.20	PASS
				Peak	2380.955	-38.53	≤-21.20	PASS
				Peak	2390.000	-42.07	≤-21.20	PASS
		High	2480	AV	2483.500	-48.34	≤-41.20	PASS
				AV	2499.840	-47.98	≤-41.20	PASS
				AV	2500.000	-48.11	≤-41.20	PASS
				Peak	2483.500	-40.51	≤-21.20	PASS
				Peak	2495.760	-37.68	≤-21.20	PASS
				Peak	2500.000	-40.54	≤-21.20	PASS

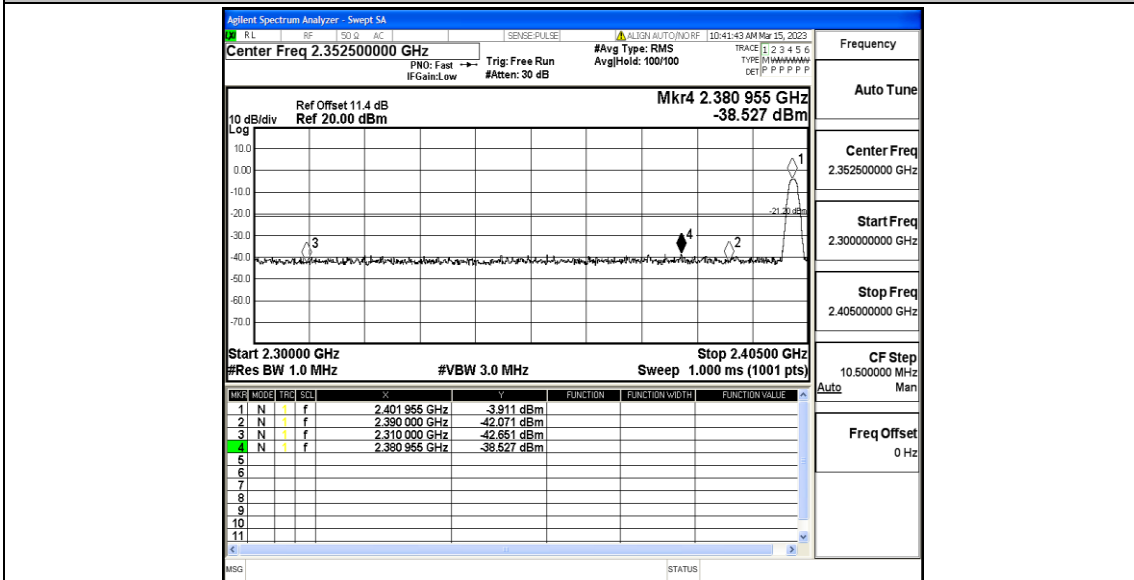
Note:

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.

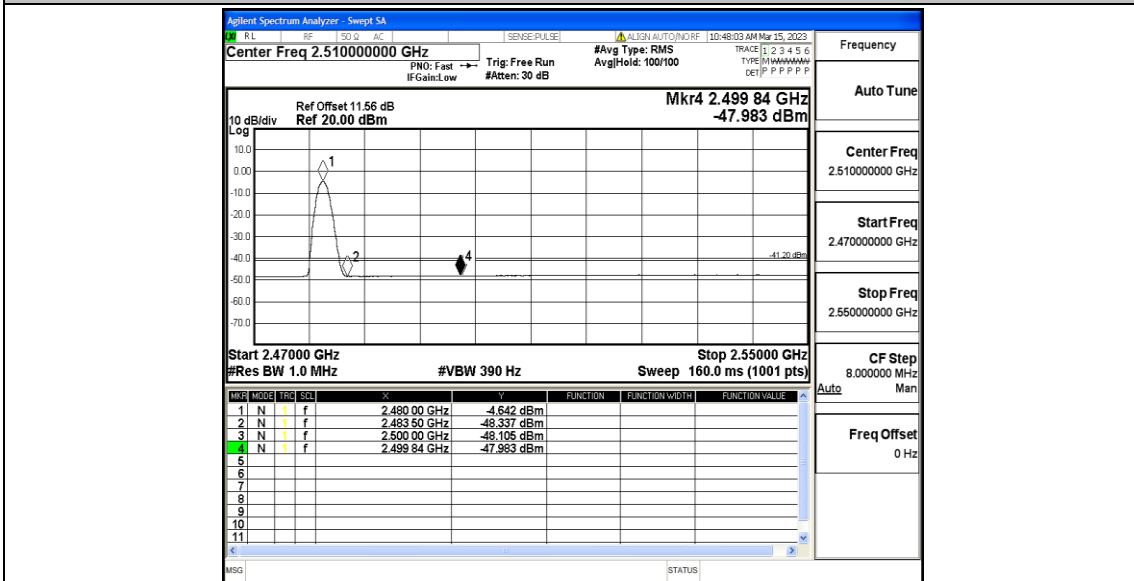
Test Graphs



DH5\_Ant1\_Low\_2402\_AV



DH5\_Ant1\_Low\_2402\_Peak



DH5\_Ant1\_High\_2480\_AV

