

## Appendix A

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

Product Name: Bluetooth mechanical keyboard

Trade Mark: N/A

Test Model: keychron K10

FCC ID: 2ASF4-K10

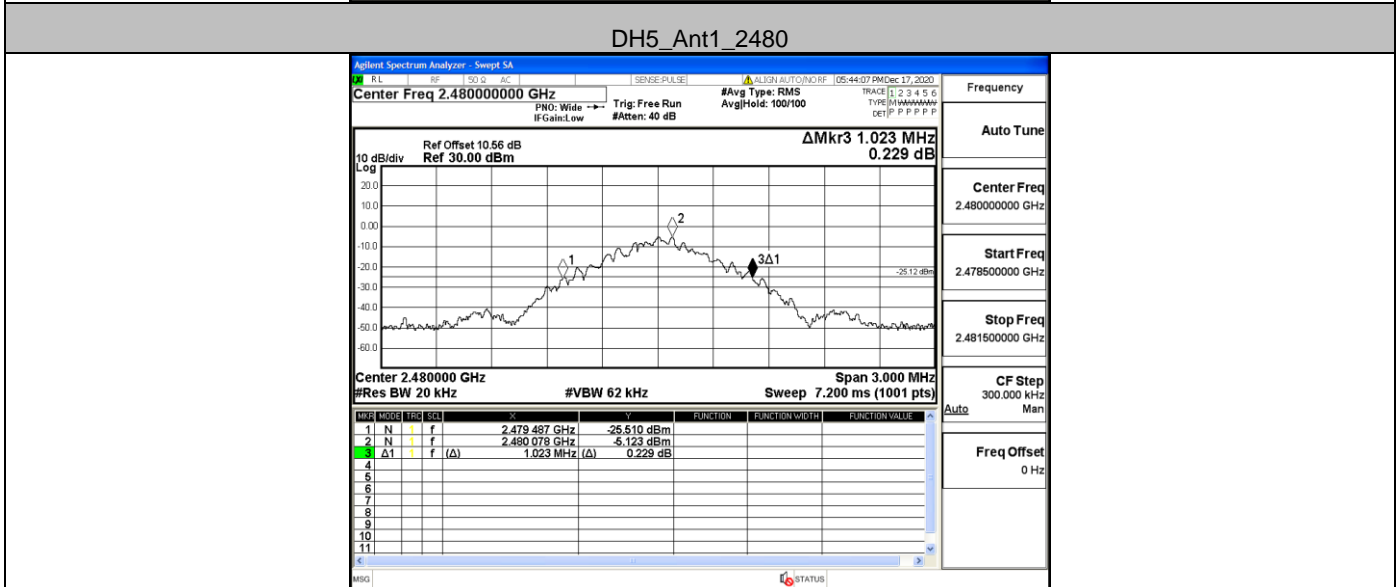
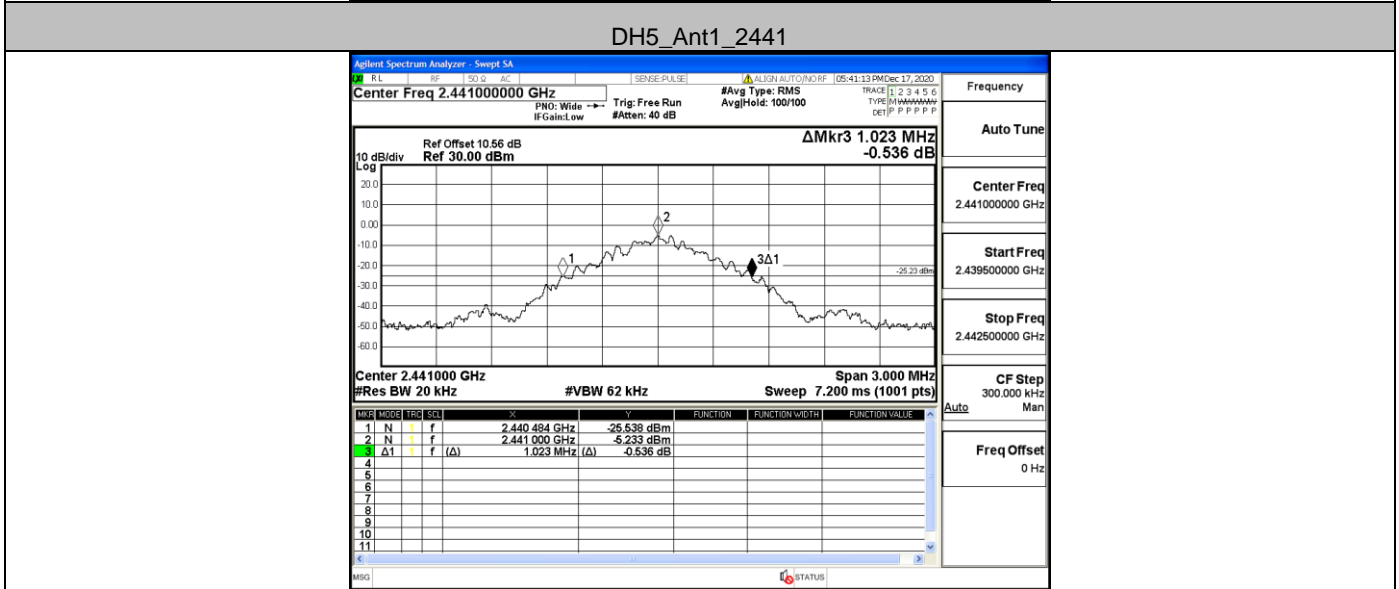
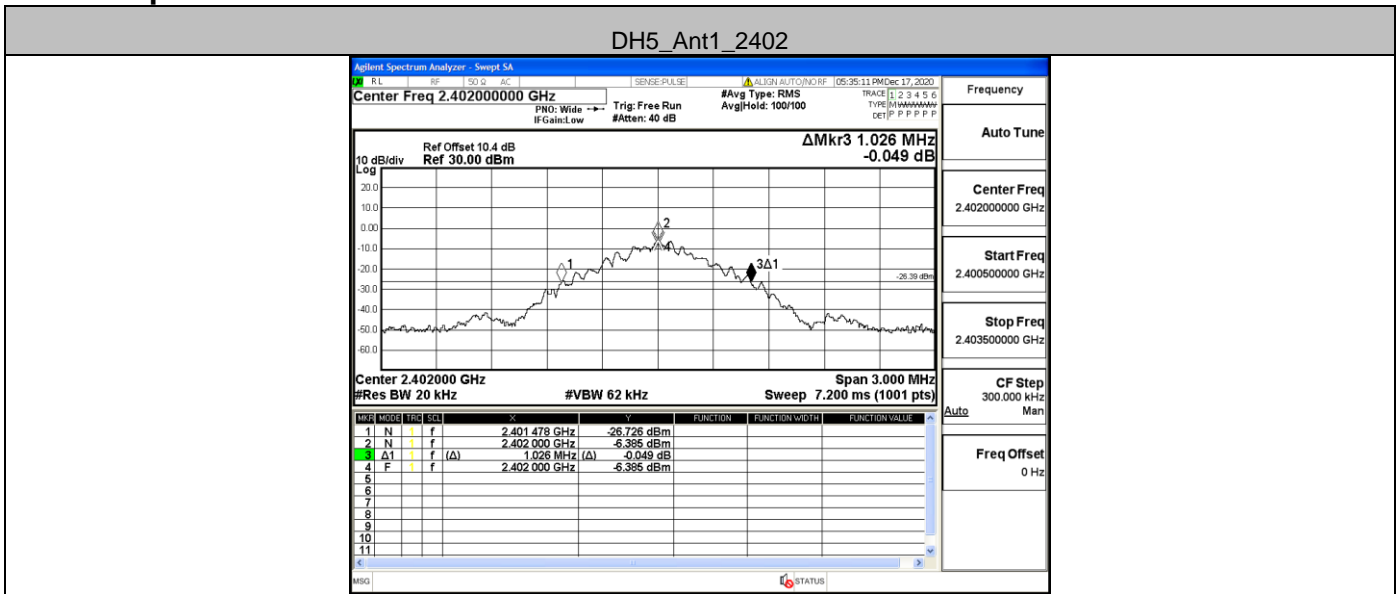
### Environmental Conditions

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

#### A.1 20 dB Bandwidth

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.026	2401.478	2402.504	---	PASS
		2441	1.023	2440.484	2441.507	---	PASS
		2480	1.023	2479.487	2480.510	---	PASS

Test Graph

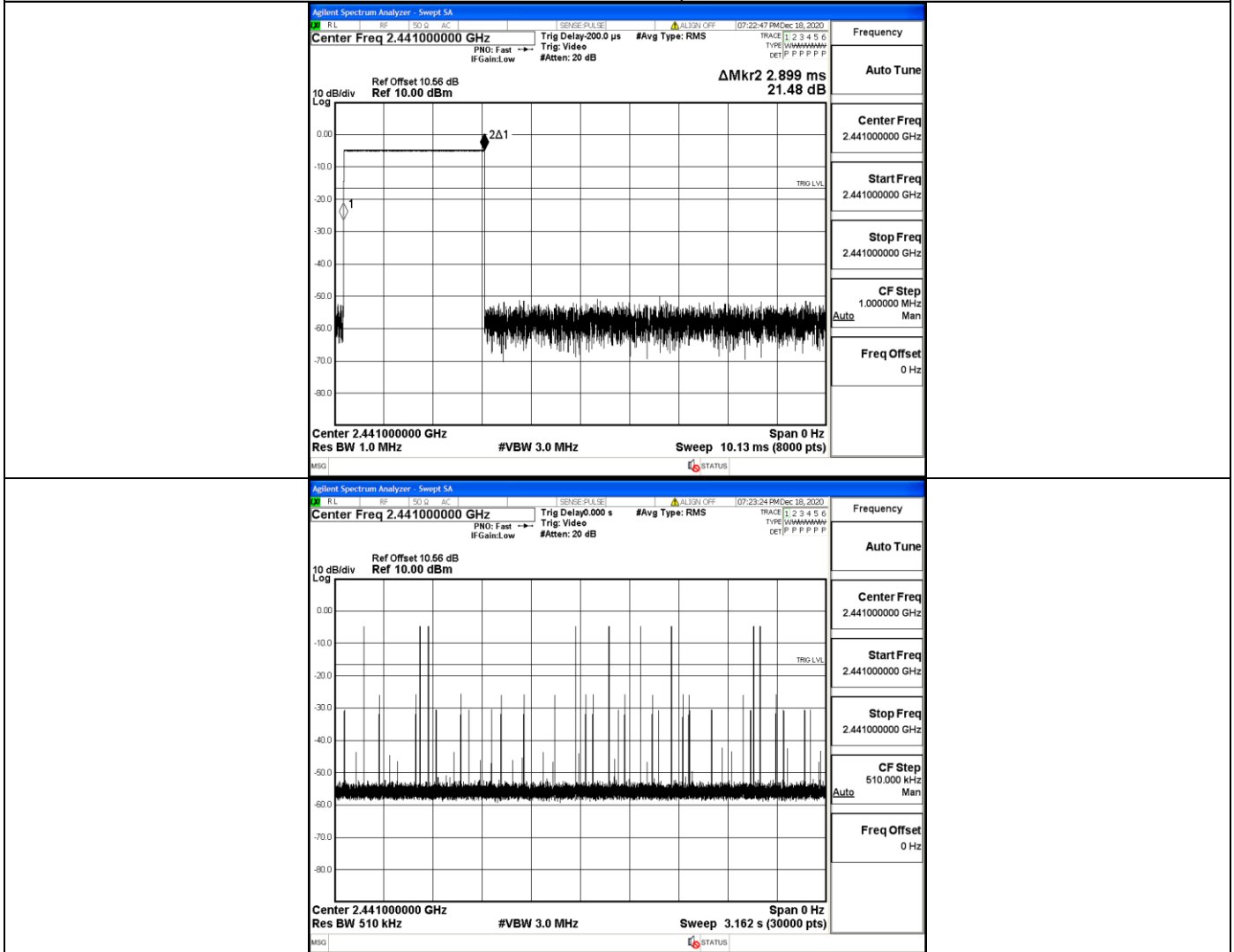


**A.2 Dwell Time**

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.90	100	0.29	<=0.4	PASS

### Test Graph

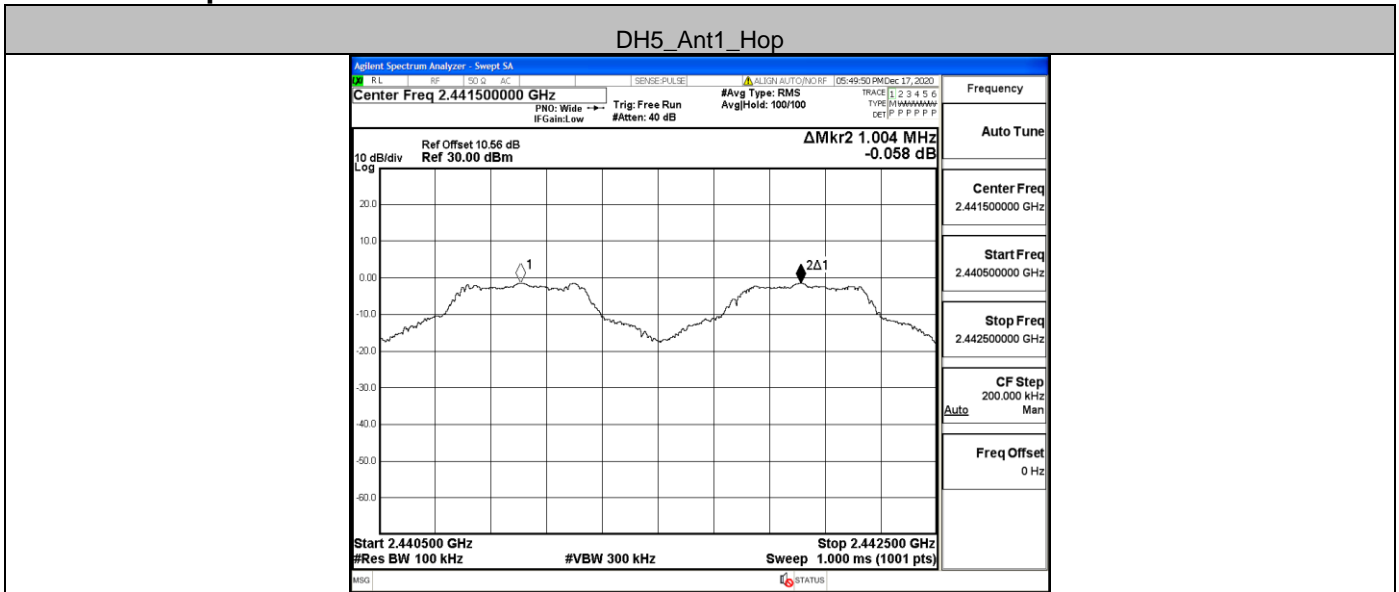
#### DH5\_Ant1\_Hop



### A.3 Carrier Frequency Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.004	$\geq 0.684$	PASS

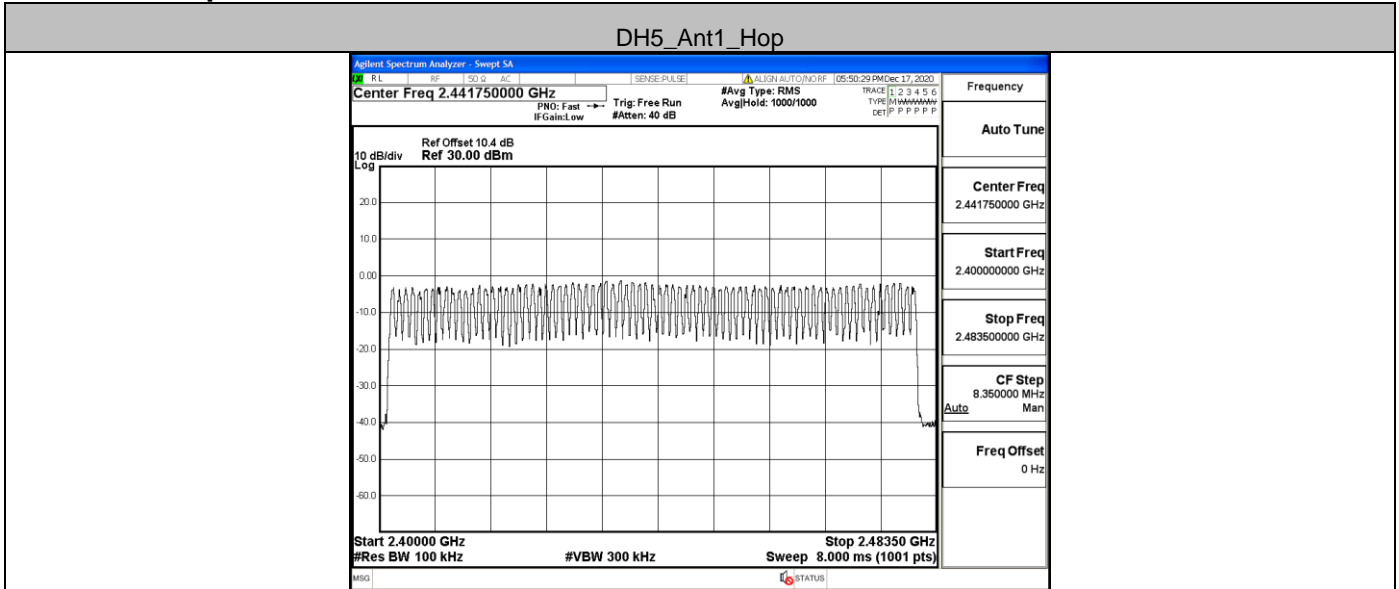
### Test Graph



### A.4 Hopping Channel Number

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

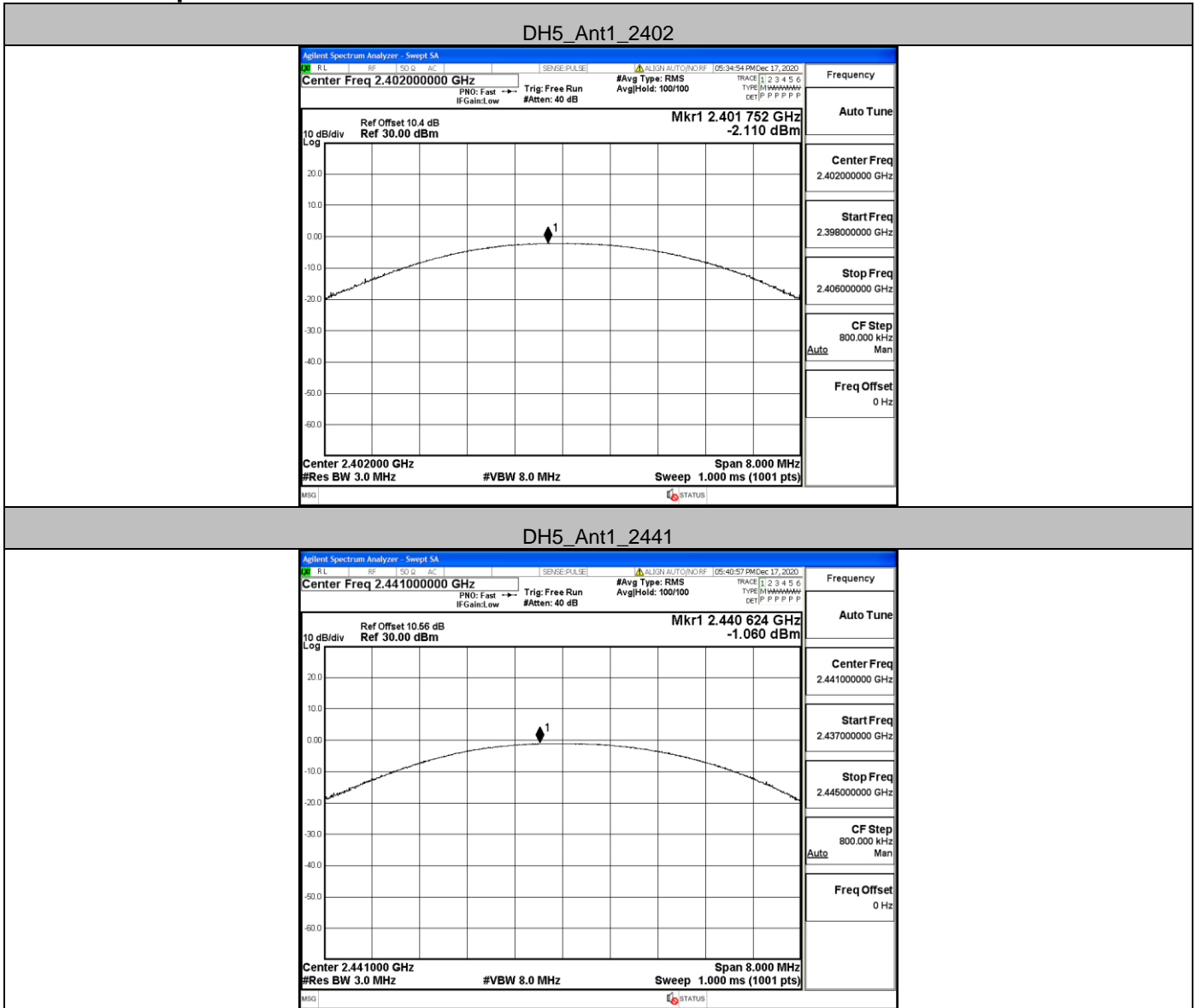
### Test Graph



### A.5 Conducted Peak Output Power

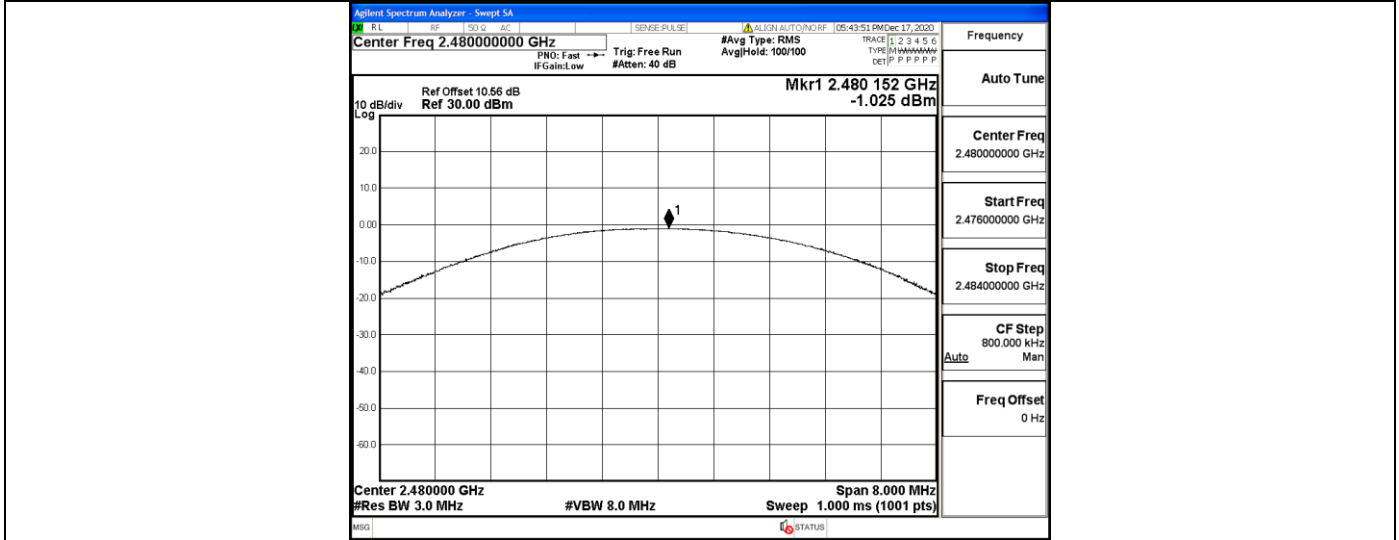
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-2.11	<=20.97	PASS
		2441	-1.06	<=20.97	PASS
		2480	-1.02	<=20.97	PASS

### Test Graph





DH5\_Ant1\_2480

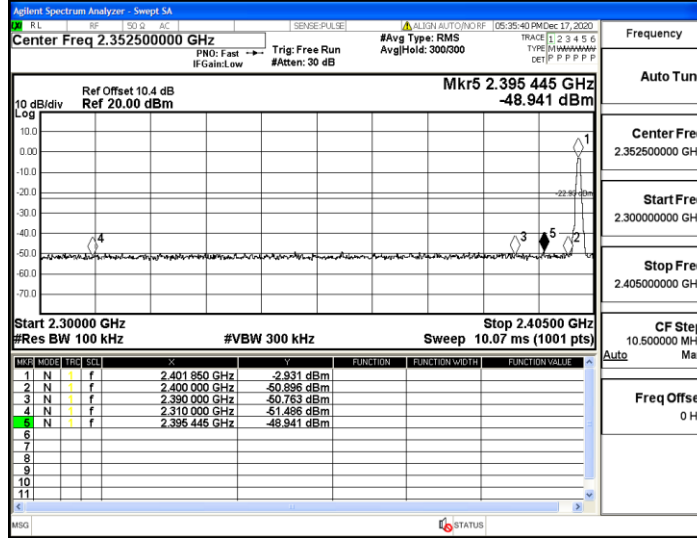


**A.6 Band-edge for RF Conducted Emissions**

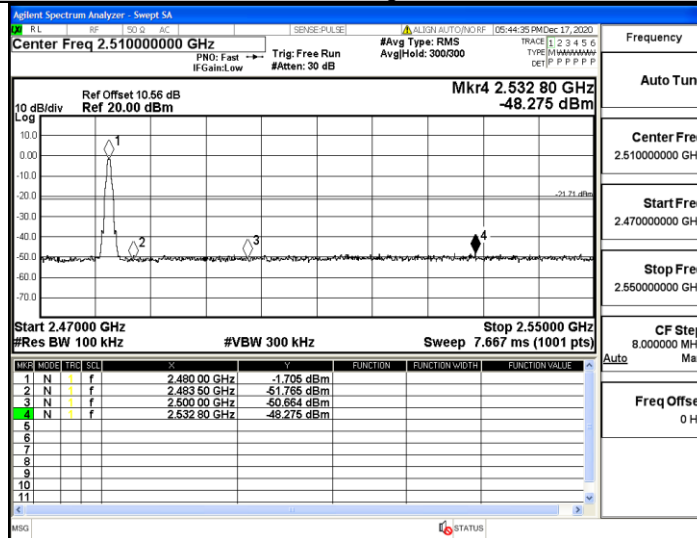
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.93	-48.94	<=-22.93	PASS
		High	2480	-1.71	-48.28	<=-21.71	PASS
		Low	Hop_2402	-3.75	-48.33	<=-23.75	PASS
		High	Hop_2480	-1.94	-47.11	<=-21.94	PASS

Test Graph

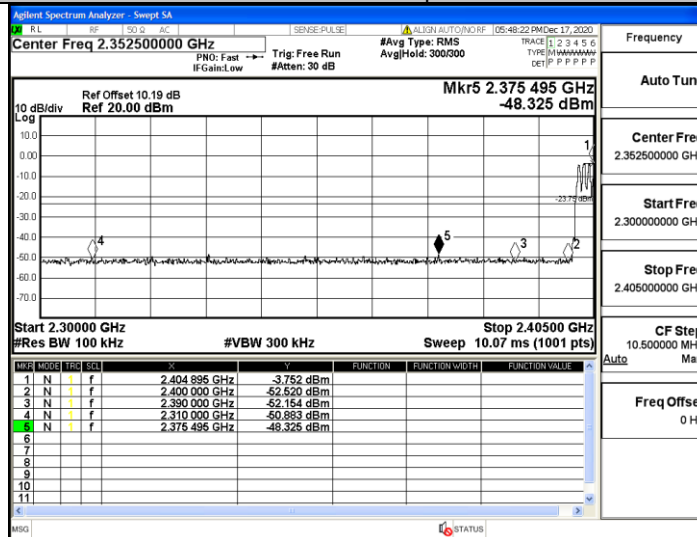
DH5\_Ant1\_Low\_2402

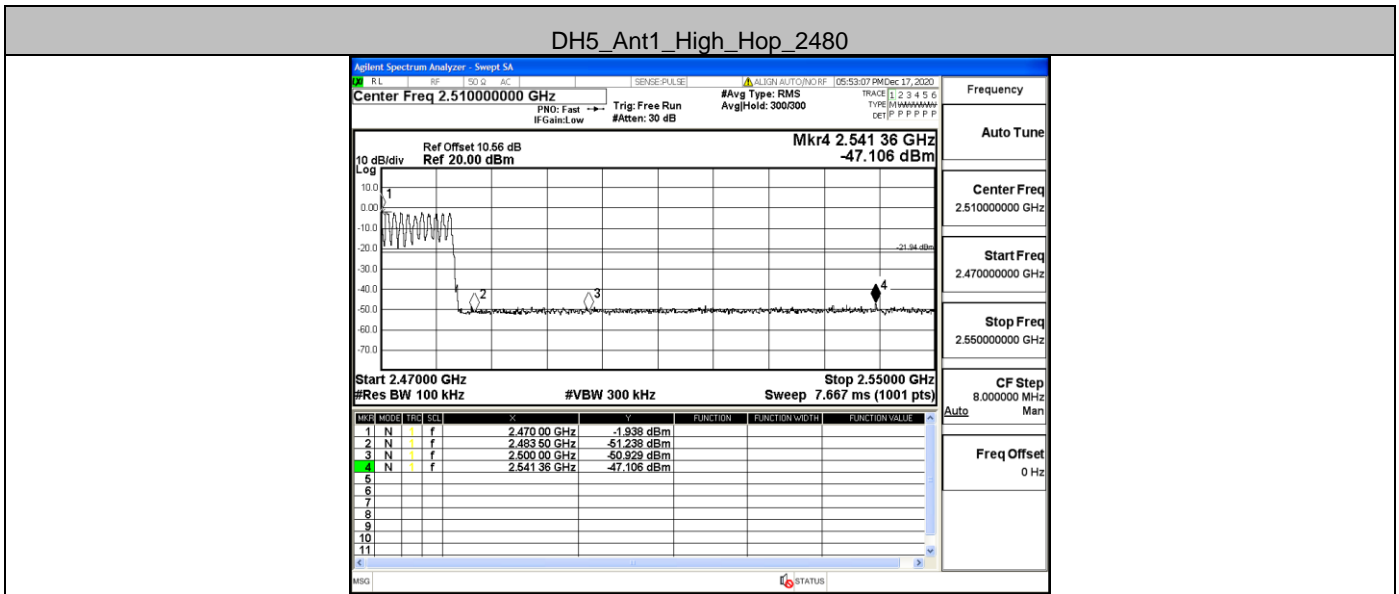


DH5\_Ant1\_High\_2480



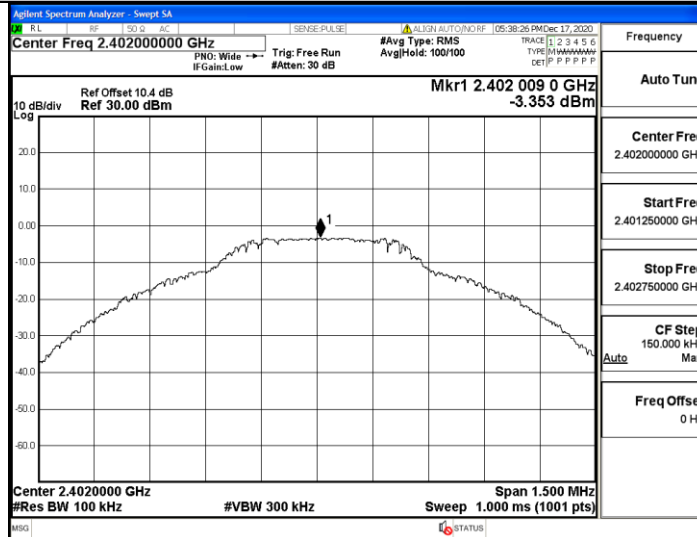
DH5\_Ant1\_Low\_Hop\_2402



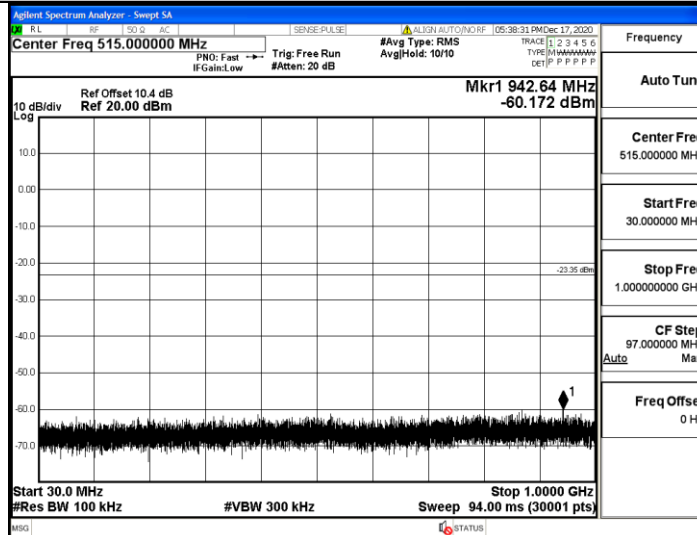


### A.7 RF Conducted Spurious Emissions Test Graph

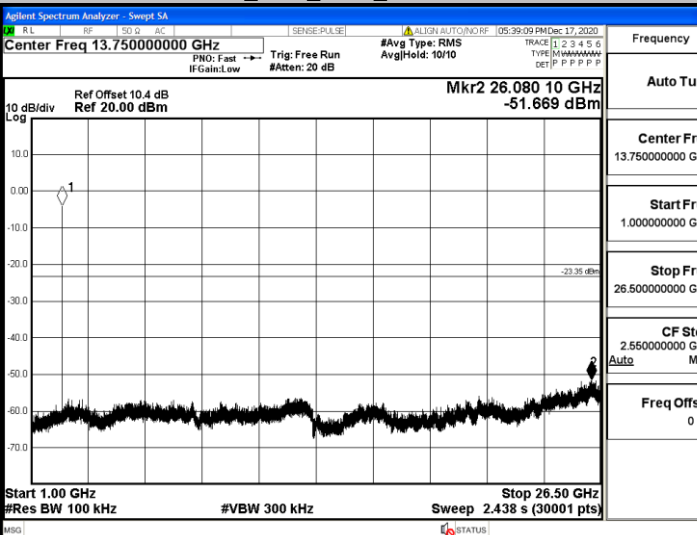
DH5\_Ant1\_2402\_0~Reference



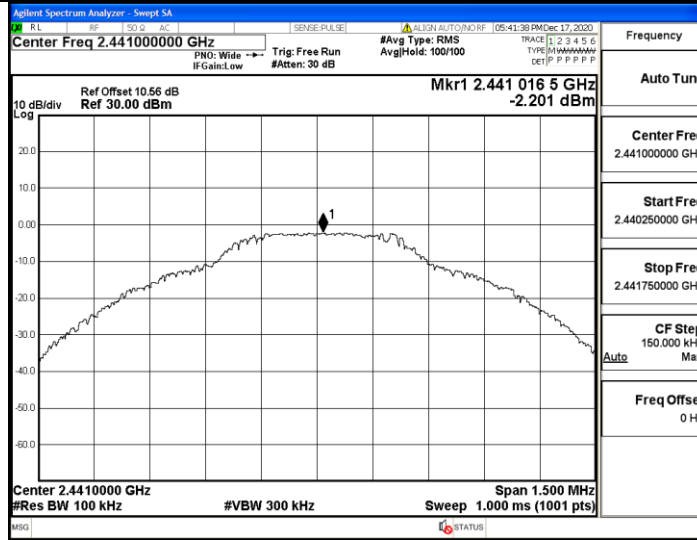
DH5\_Ant1\_2402\_30~1000



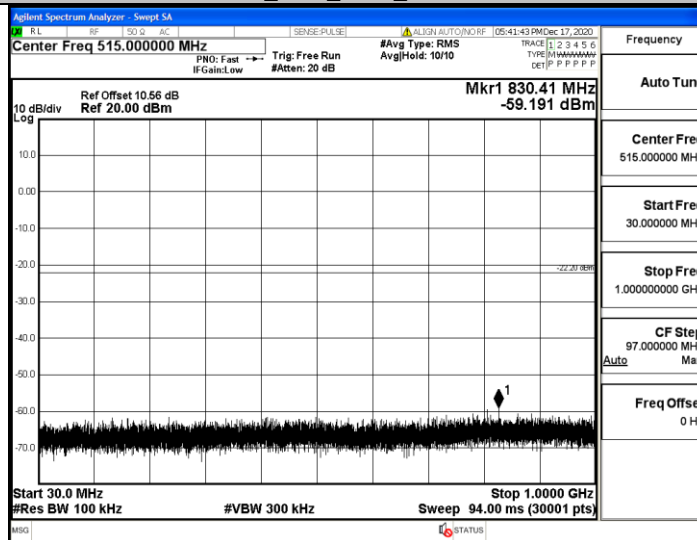
DH5\_Ant1\_2402\_1000~26500



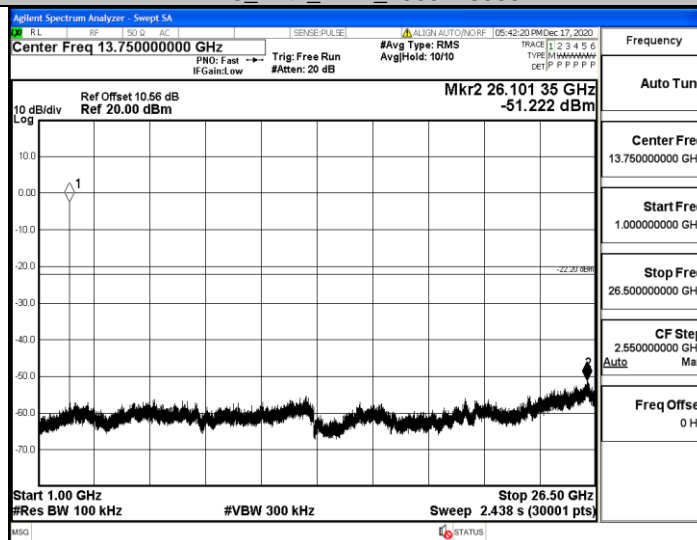
DH5\_Ant1\_2441\_0~Reference



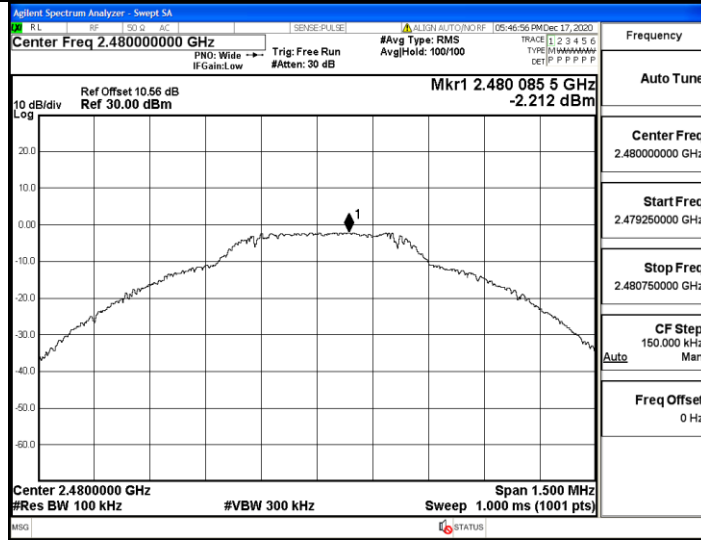
DH5\_Ant1\_2441\_30~1000



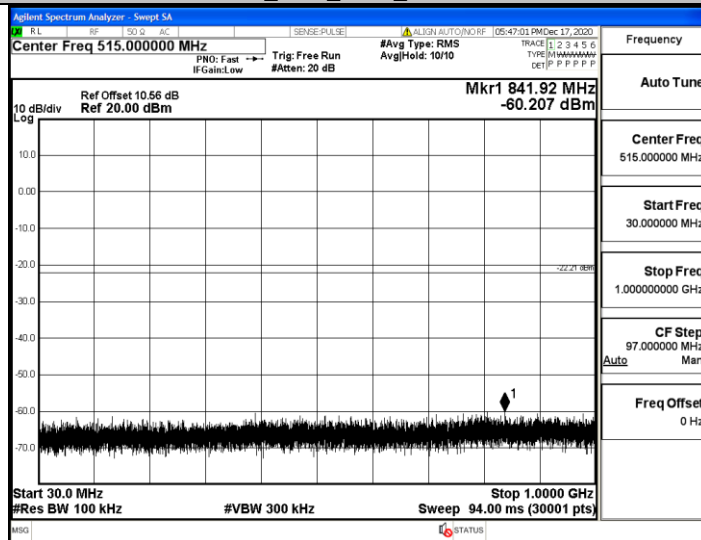
DH5\_Ant1\_2441\_1000~26500



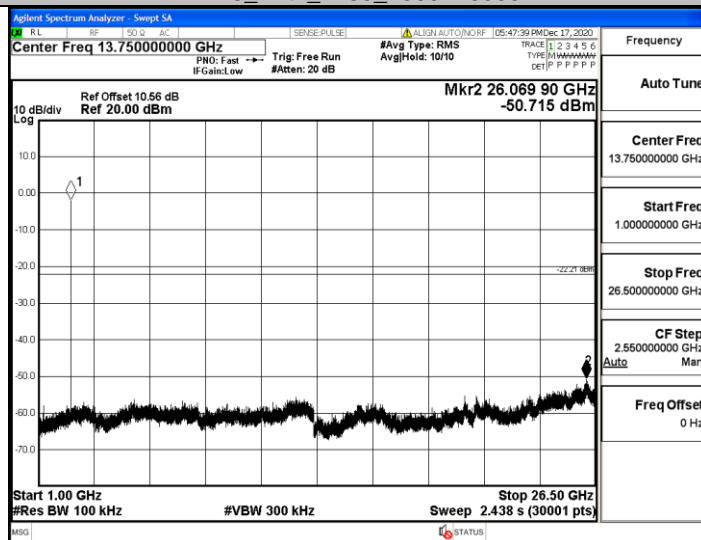
DH5\_Ant1\_2480\_0~Reference



DH5\_Ant1\_2480\_30~1000



DH5\_Ant1\_2480\_1000~26500



**A.8 Restrict-band band-edge measurements**

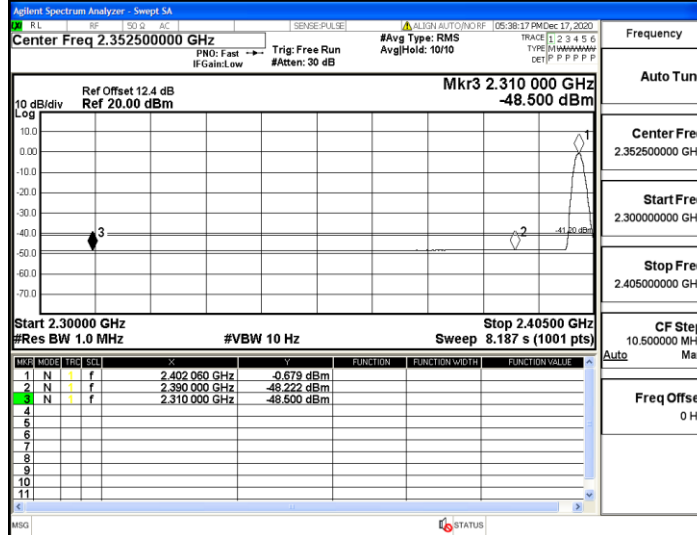
TestMode	Antenna	ChName	Channel	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-48.50	<=-41.20	PASS
				AV	2390.000	-48.22	<=-41.20	PASS
				Peak	2310.000	-43.41	<=-21.20	PASS
				Peak	2390.000	-40.28	<=-21.20	PASS
		High	2480	AV	2483.500	-47.44	<=-41.20	PASS
				AV	2500.000	-47.47	<=-41.20	PASS
				Peak	2483.500	-43.17	<=-21.20	PASS
				Peak	2500.000	-42.27	<=-21.20	PASS

## Note:

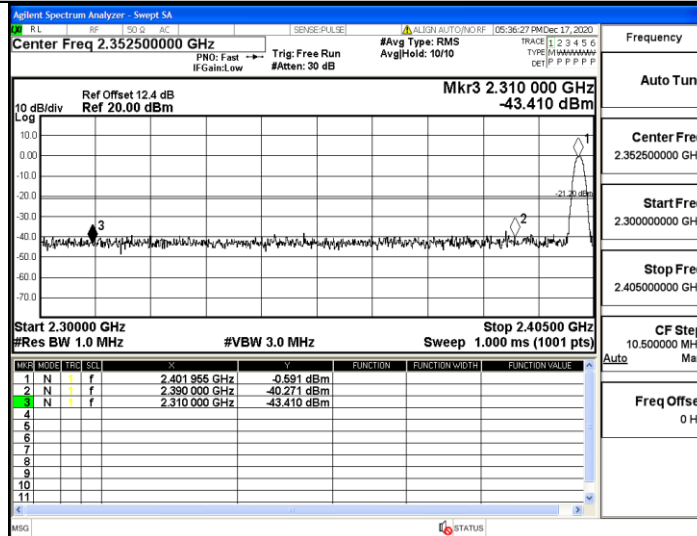
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



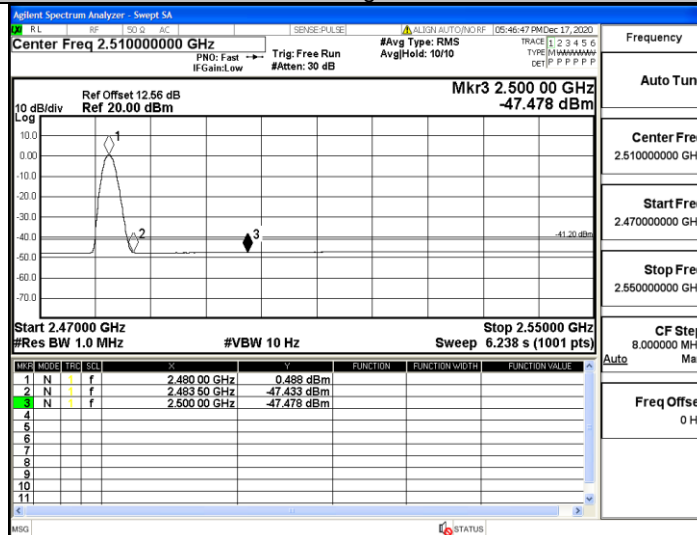
DH5\_Ant1\_Low\_2402\_AV



DH5\_Ant1\_Low\_2402\_Peak



DH5\_Ant1\_High\_2480\_AV



DH5\_Ant1\_High\_2480\_Peak

