

Appendix A

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

Product Name: Bluetooth mechanical keyboard

Trade Mark: N/A

Test Model: keychron K8

FCC ID: 2ASF4-K8

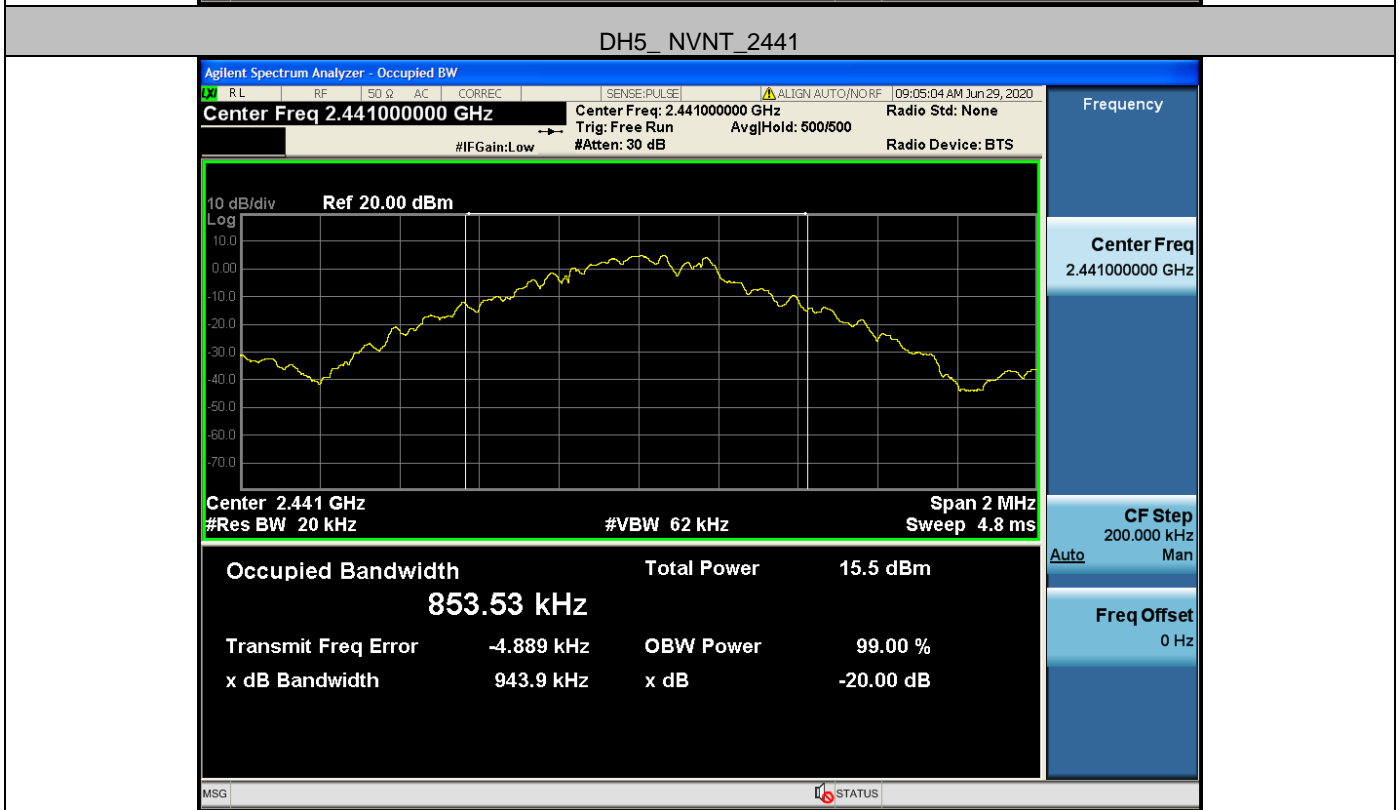
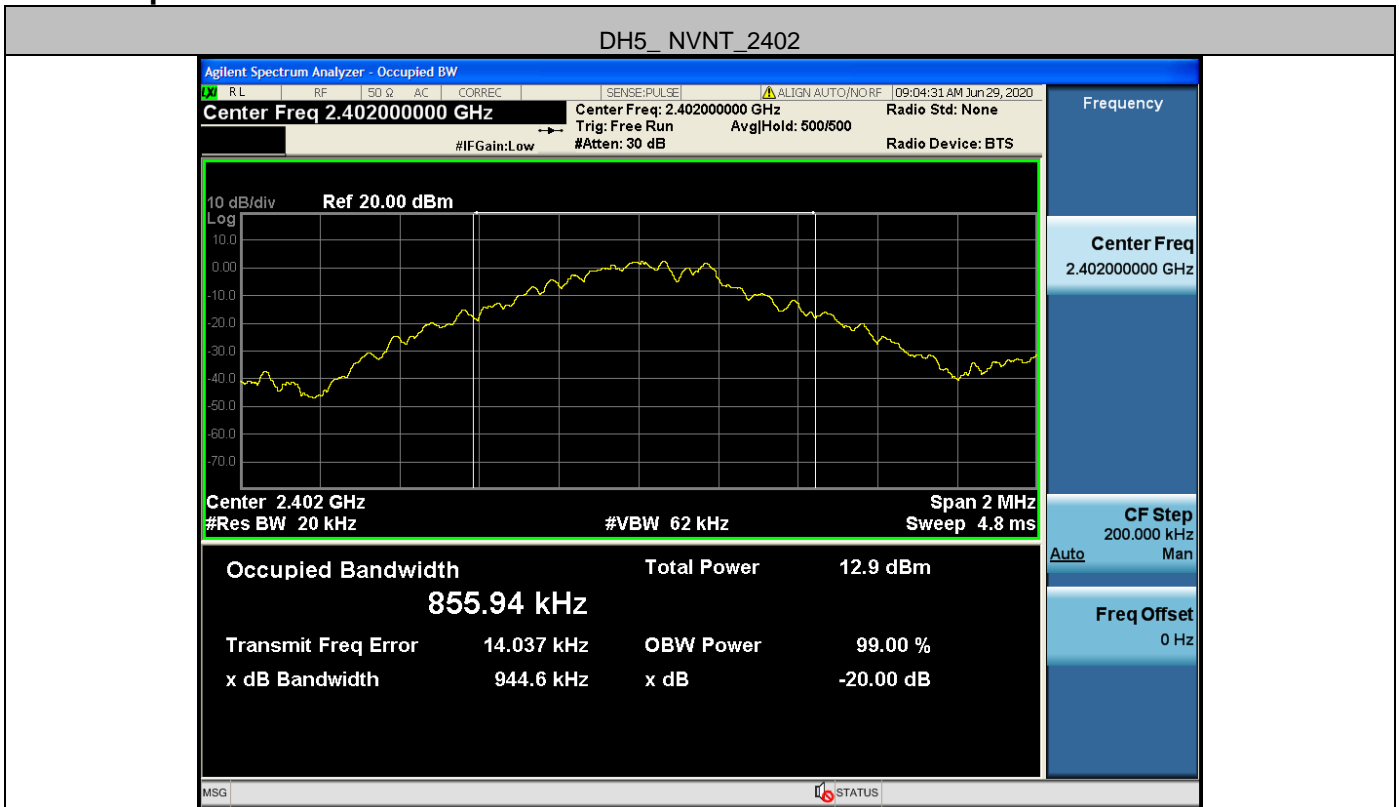
Environmental Conditions

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

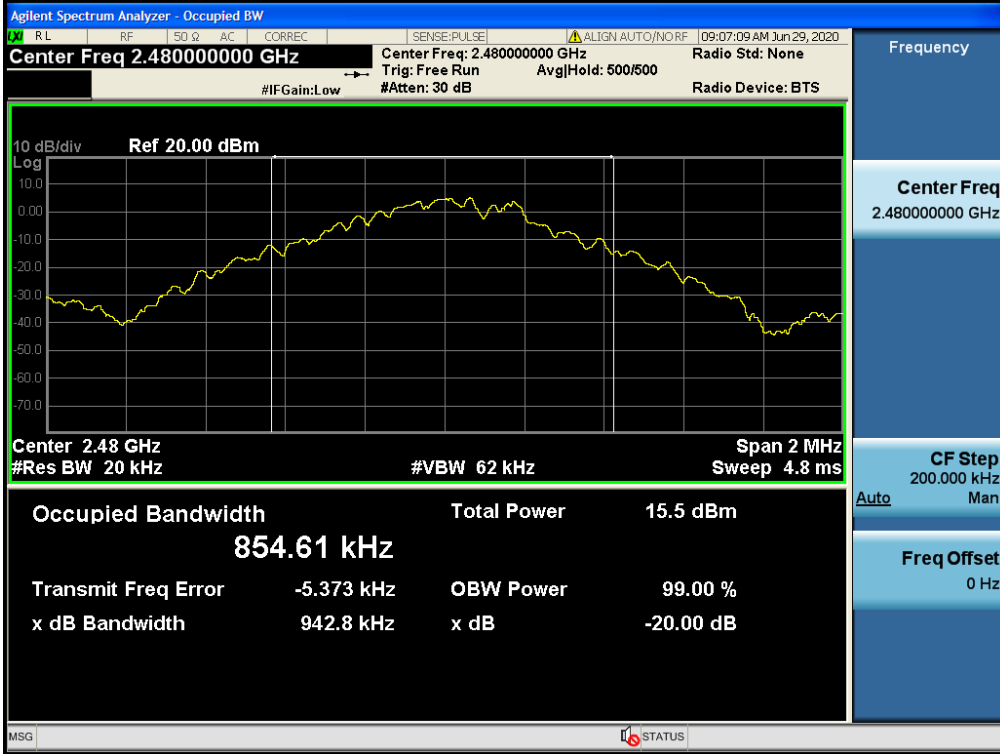
A.1 20 dB Bandwidth

Type	Frequency(MHz)	Nominal Bandwidth(MHz)	Test Condition	20dB Spectrum Bandwidth(MHz)	Conclusion
DH5	2402	1	NVNT	0.944	No Limit
DH5	2441	1	NVNT	0.944	No Limit
DH5	2480	1	NVNT	0.942	No Limit

Test Graph



DH5_NVNT_2480

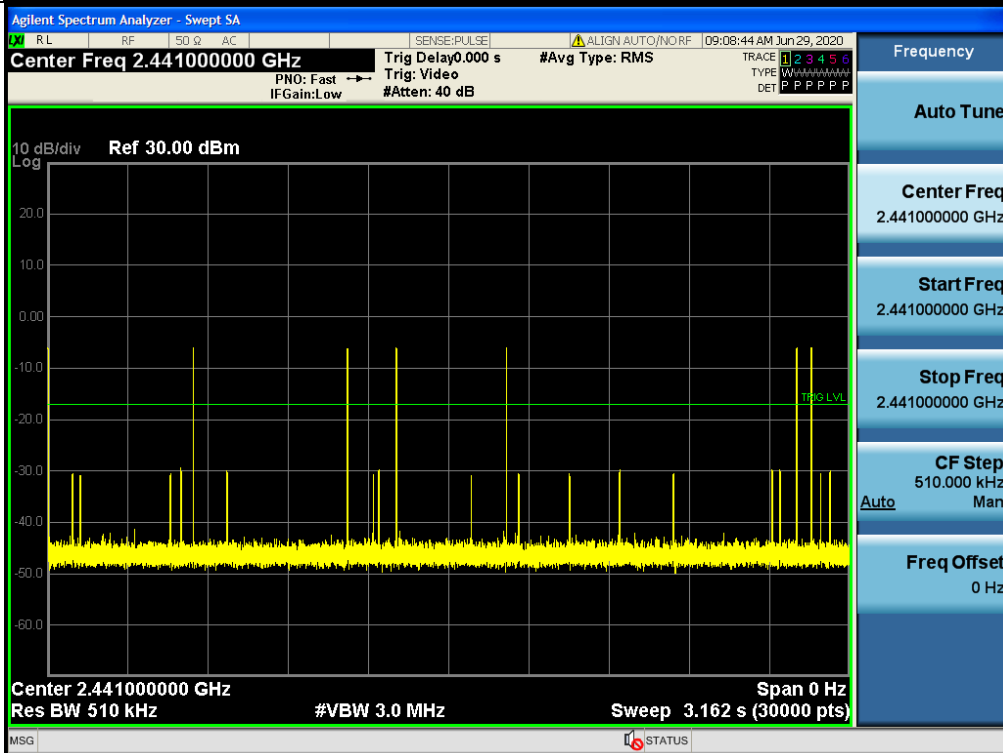
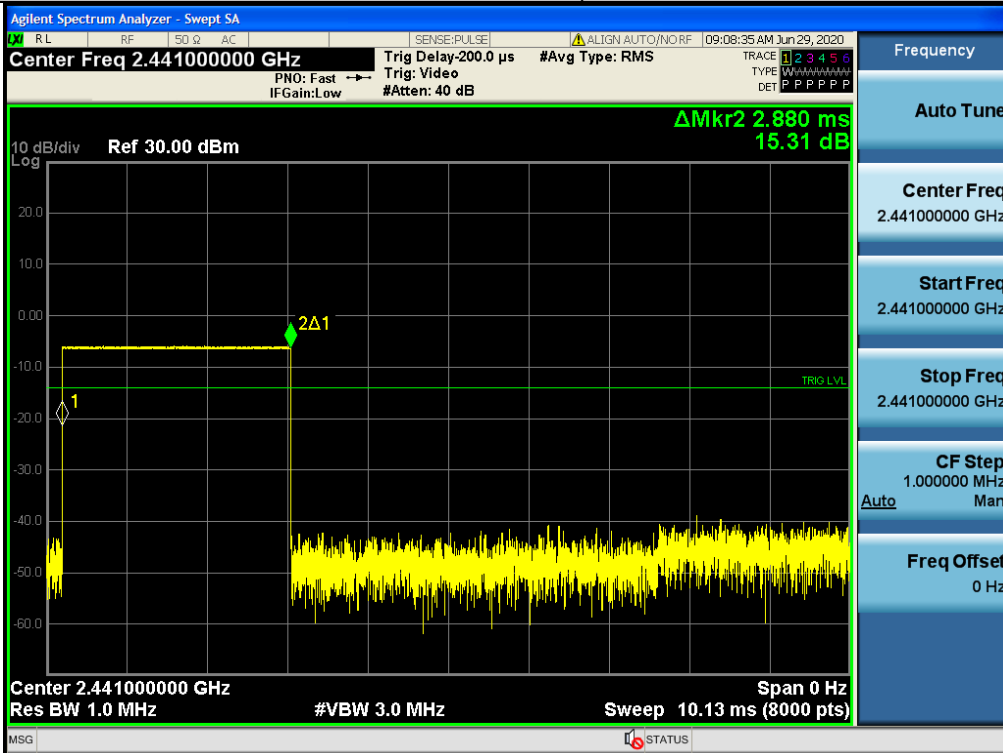


A.2 Dwell Time

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	70	0.202	<=0.4	PASS

Test Graph

DH5_Ant1_Hop



A.3 Carrier Frequency Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.006	≥ 0.750	PASS

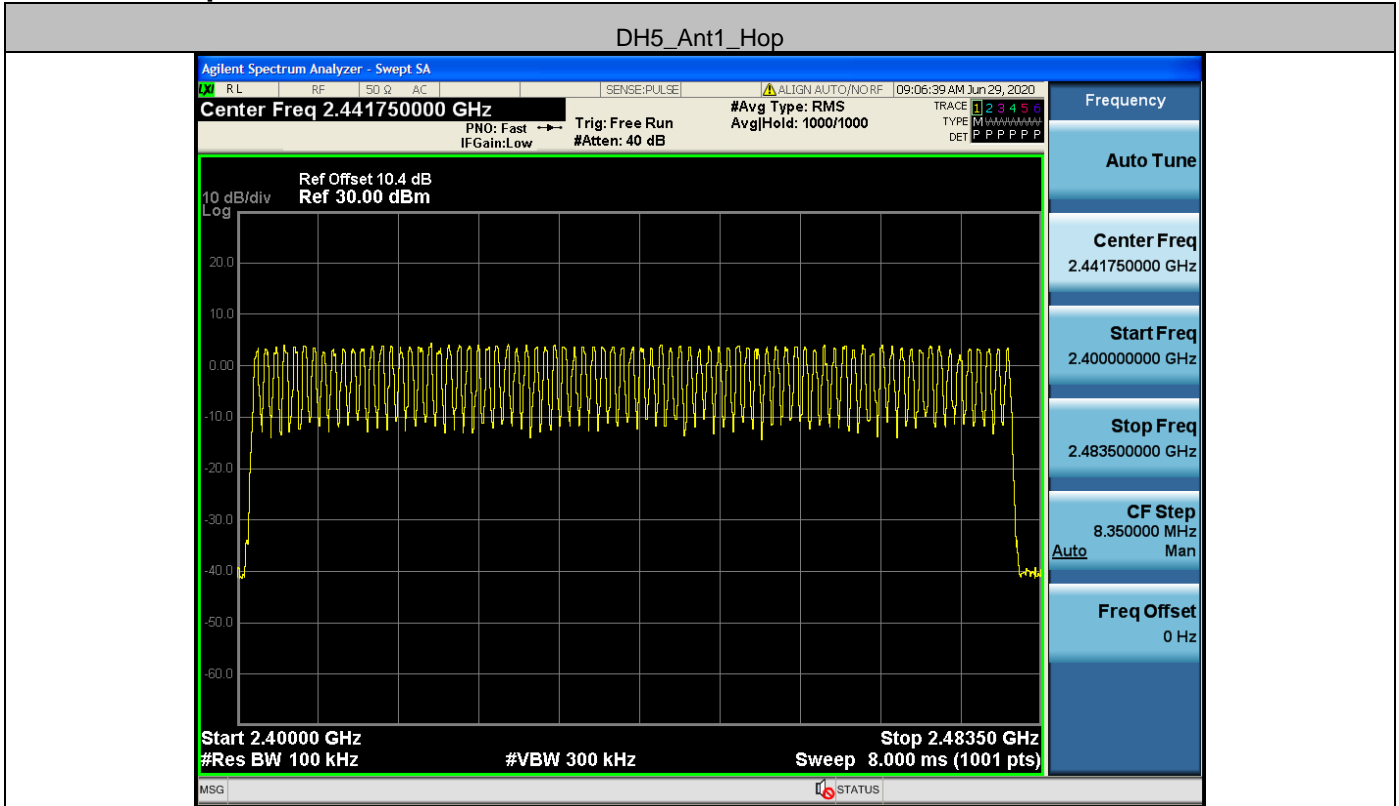
Test Graph



A.4 Hopping Channel Number

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

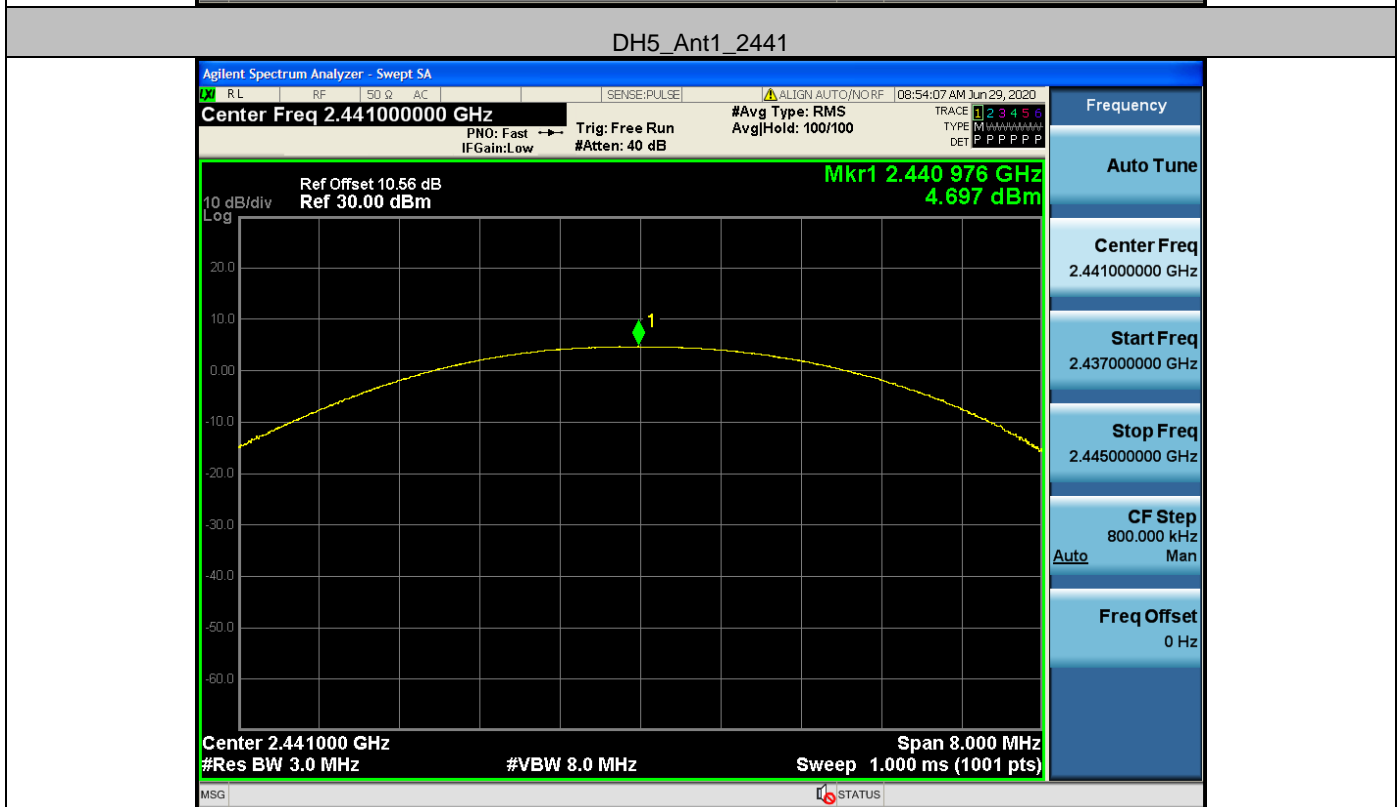
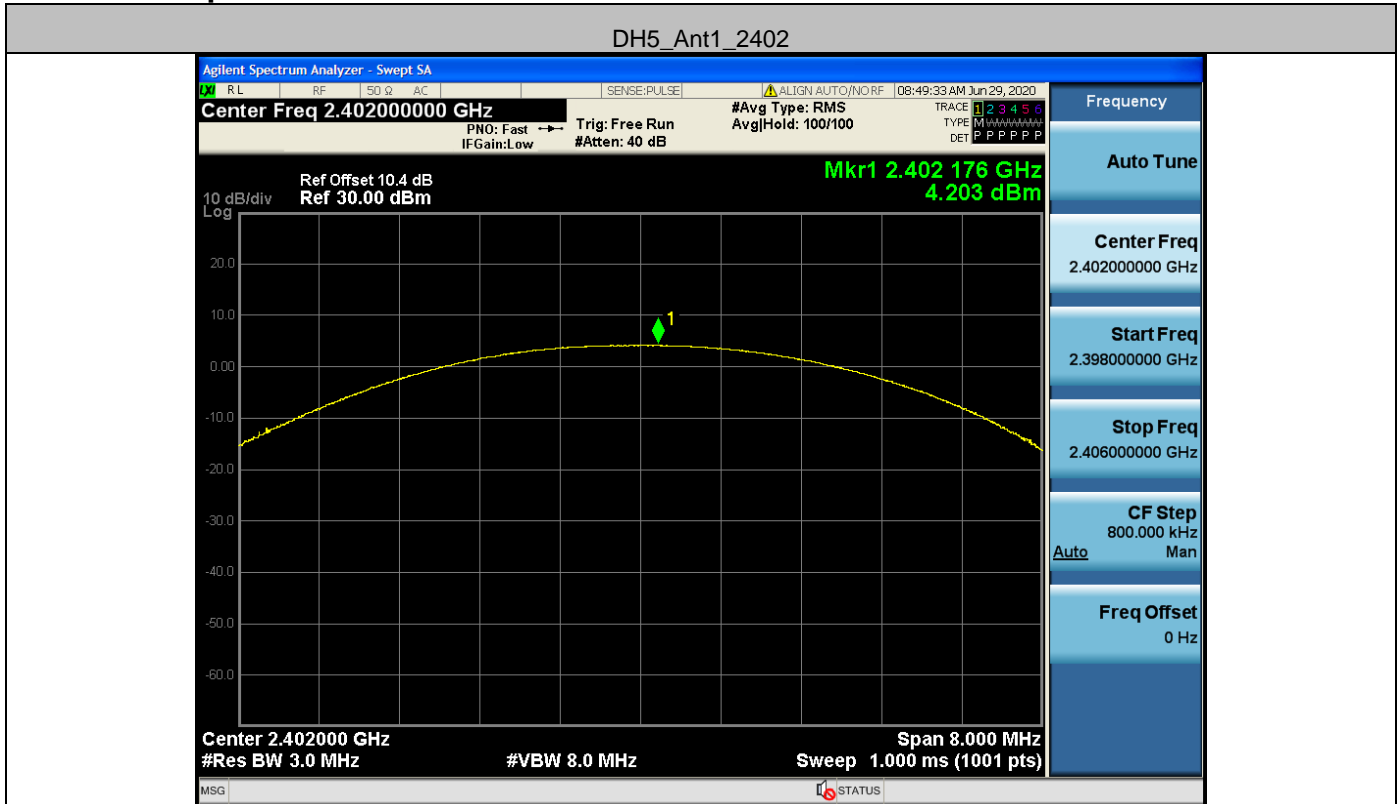
Test Graph



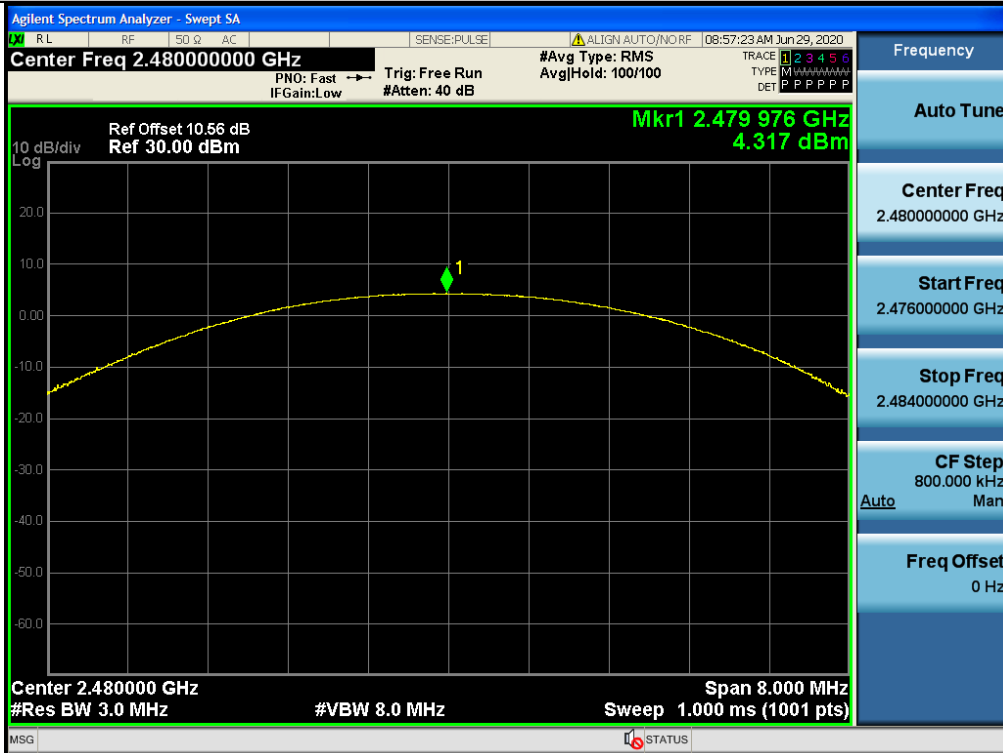
A.5 Conducted Peak Output Power

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	4.21	<=20.97	PASS
		2441	4.70	<=20.97	PASS
		2480	4.32	<=20.97	PASS

Test Graph



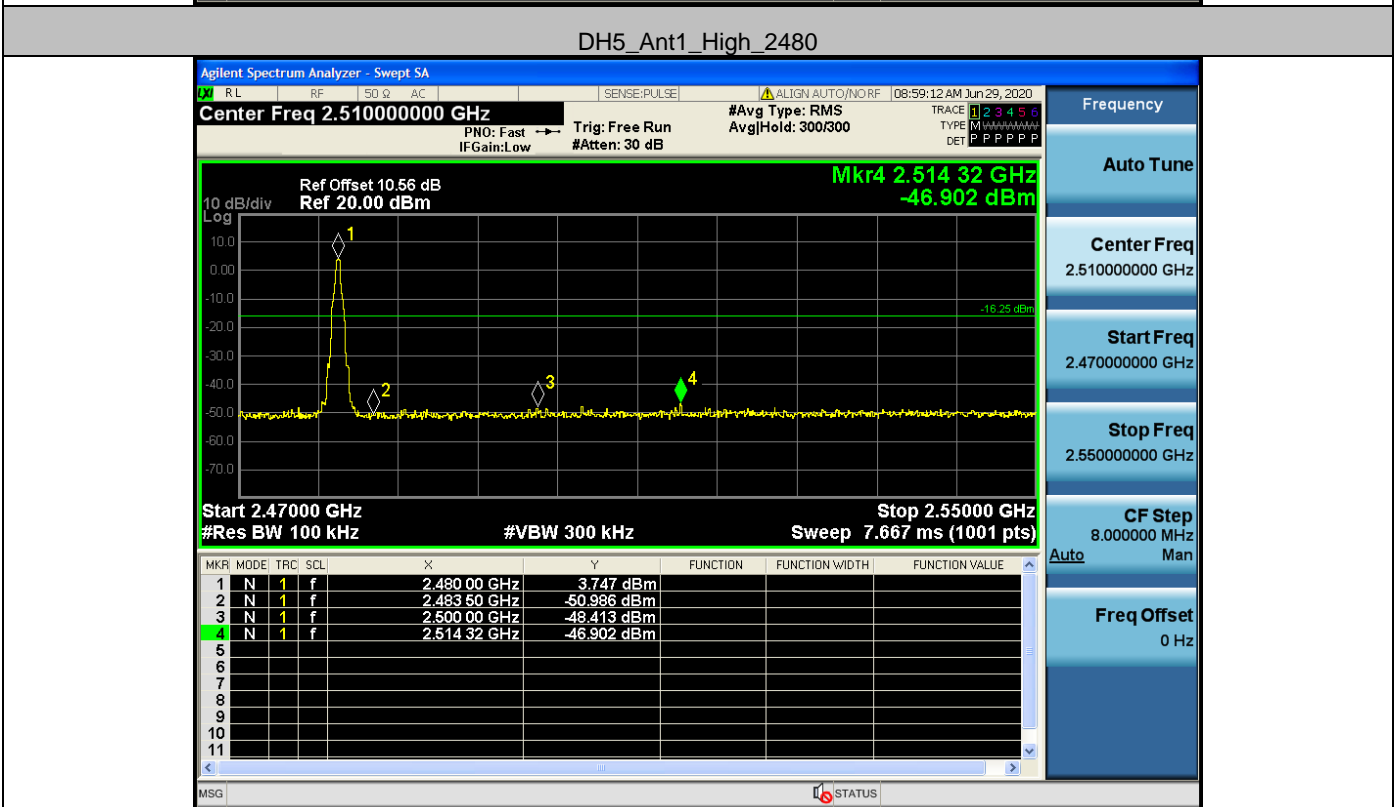
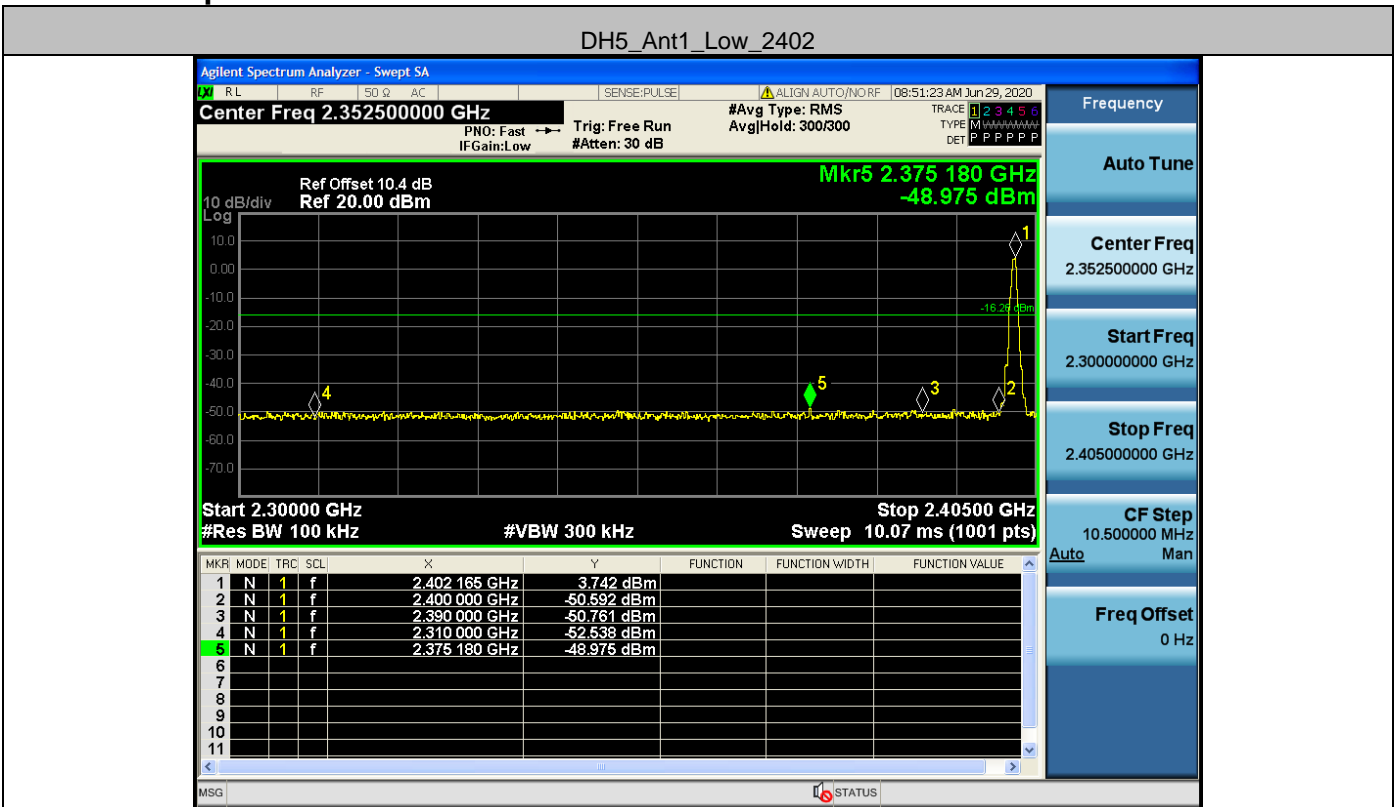
DH5_Ant1_2480



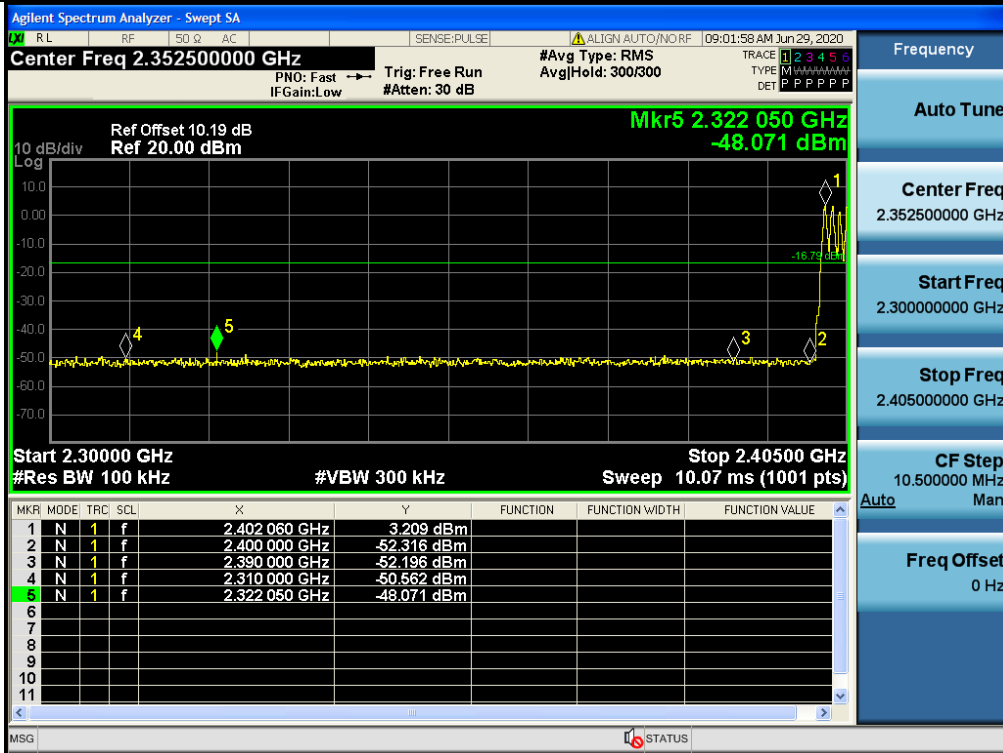
A.6 Band-edge for RF Conducted Emissions

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.74	-48.98	<=-16.26	PASS
		High	2480	3.75	-46.90	<=-16.25	PASS
		Low	Hop_2402	3.21	-48.08	<=-16.79	PASS
		High	Hop_2480	4.27	-47.75	<=-15.74	PASS

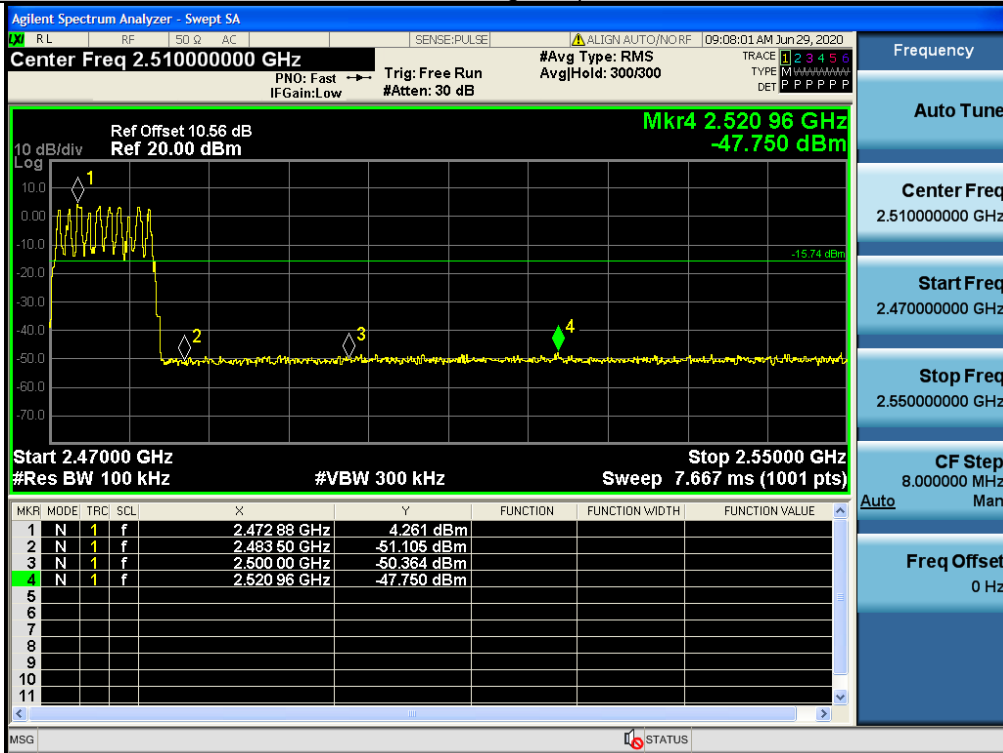
Test Graph



DH5_Ant1_Low_Hop_2402



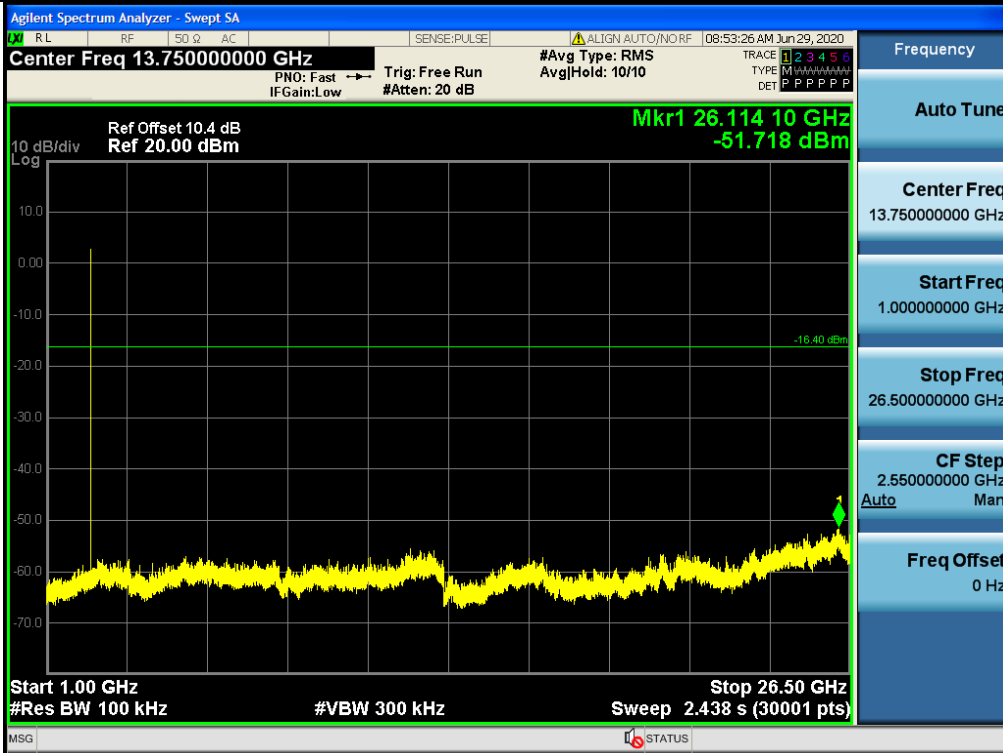
DH5_Ant1_High_Hop_2480



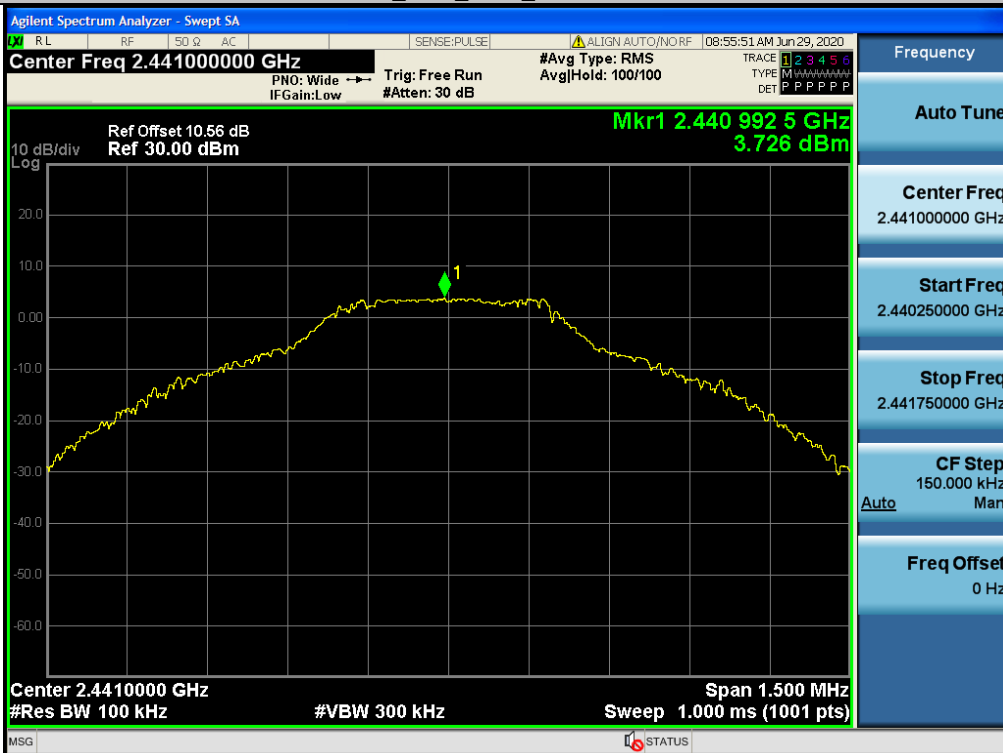
A.7 RF Conducted Spurious Emissions Test Graph



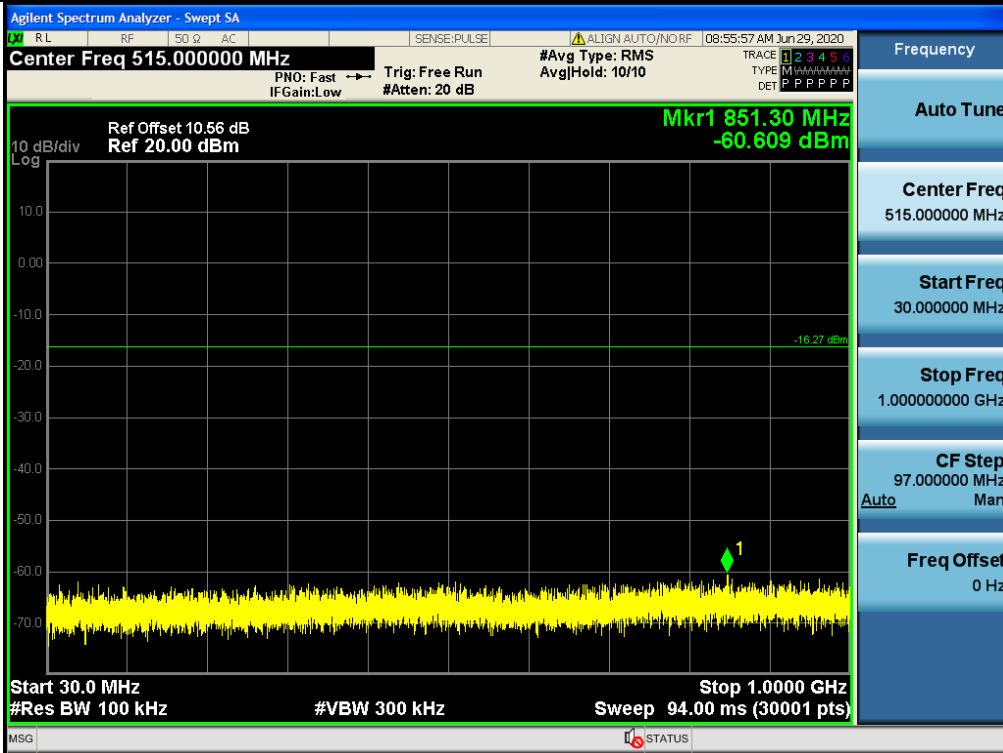
DH5_Ant1_2402_1000~26500



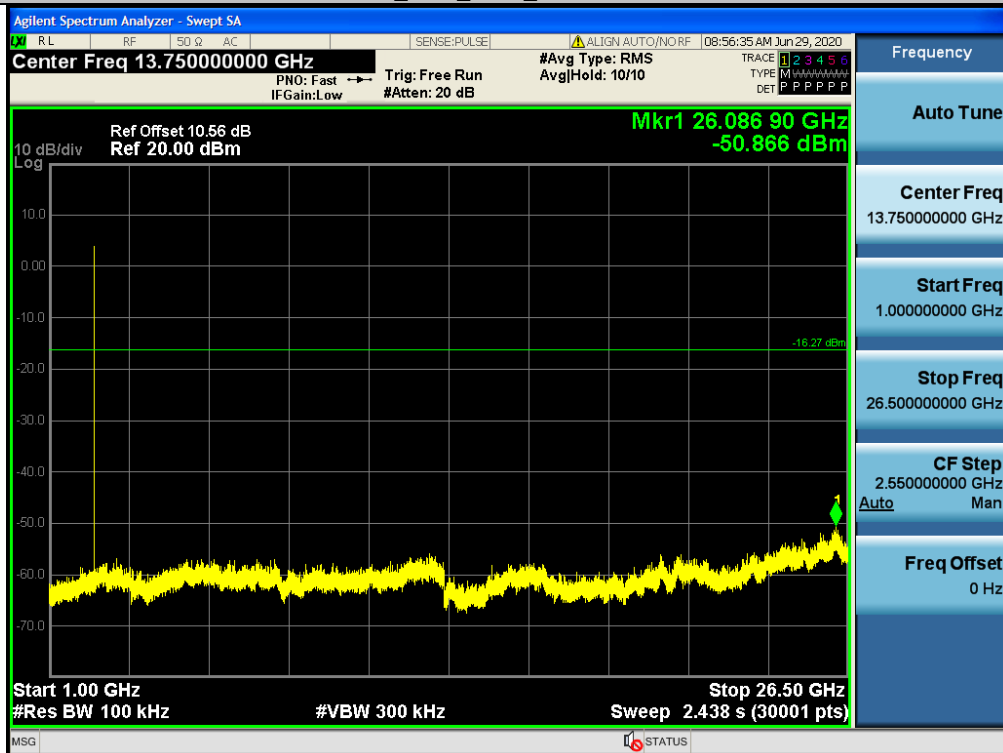
DH5_Ant1_2441_0~Reference



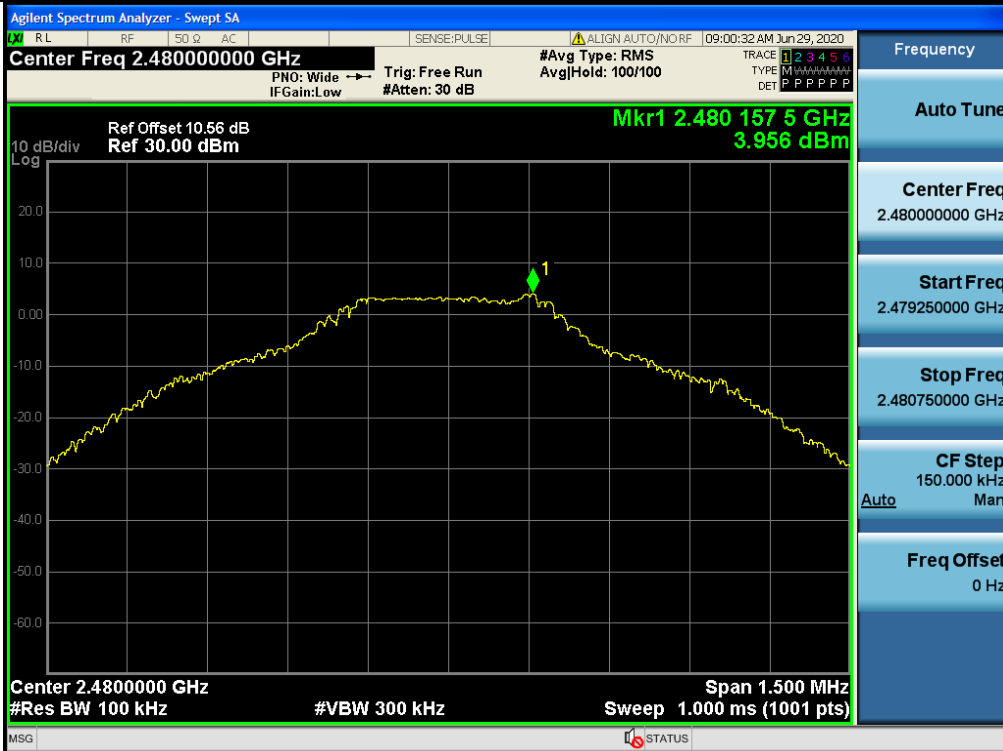
DH5_Ant1_2441_30~1000



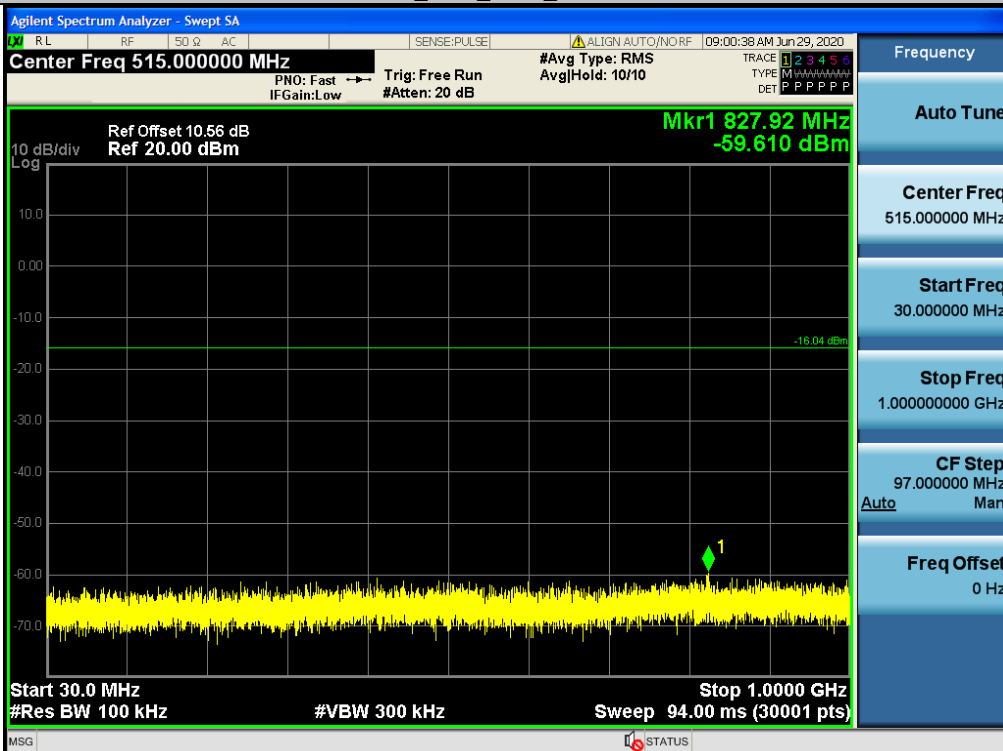
DH5_Ant1_2441_1000~26500



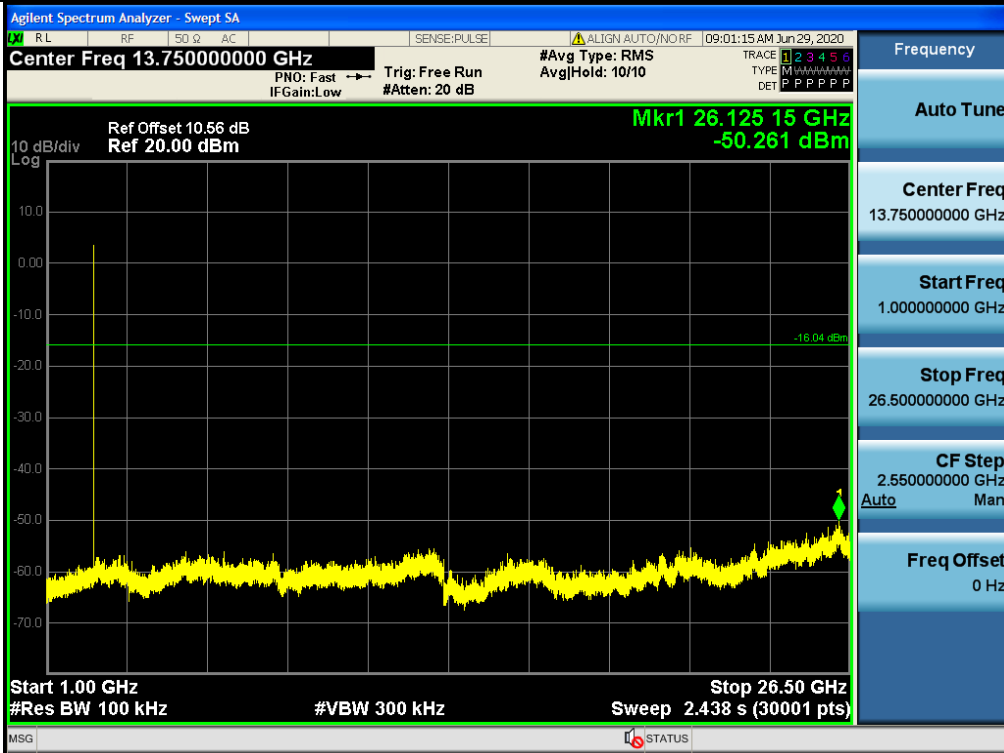
DH5_Ant1_2480_0-Reference



DH5_Ant1_2480_30-1000



DH5_Ant1_2480_1000~26500



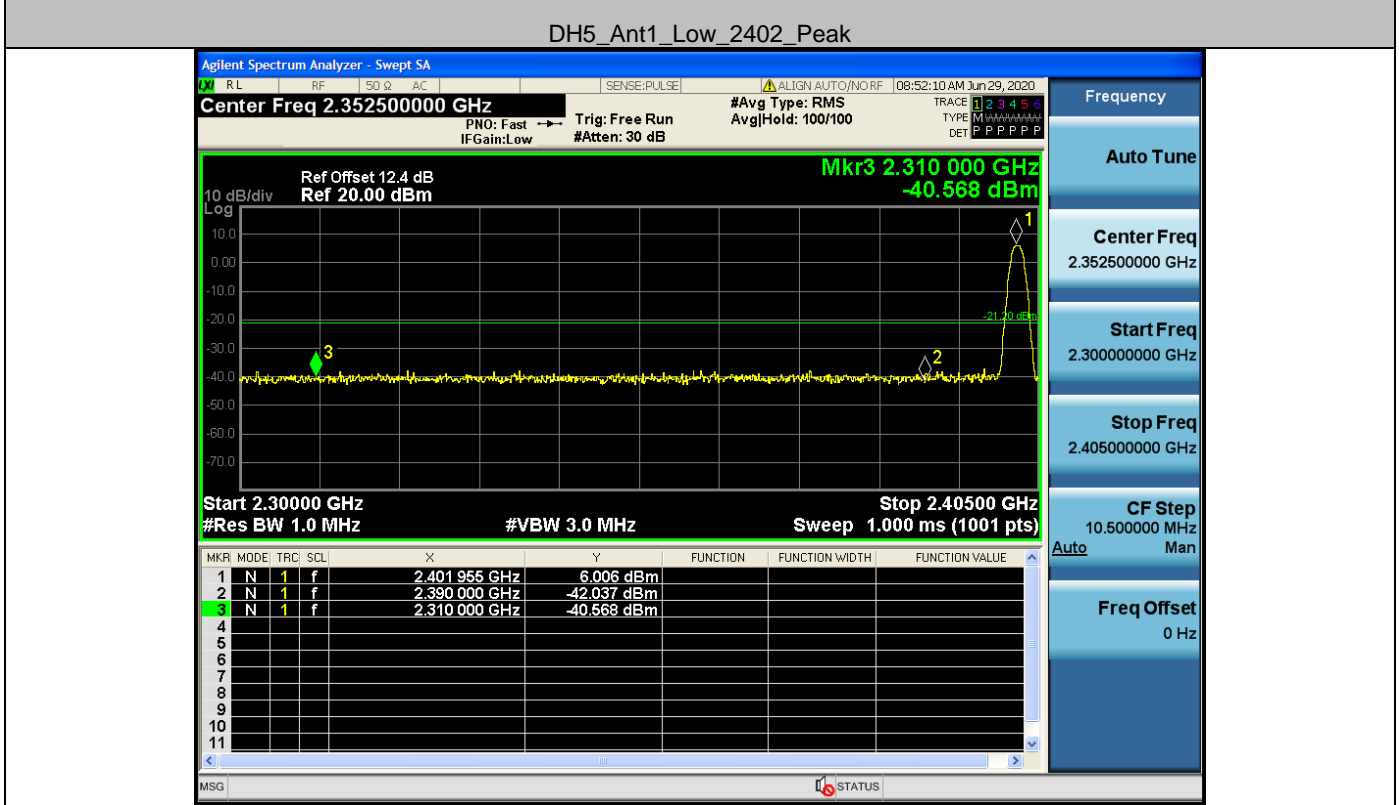
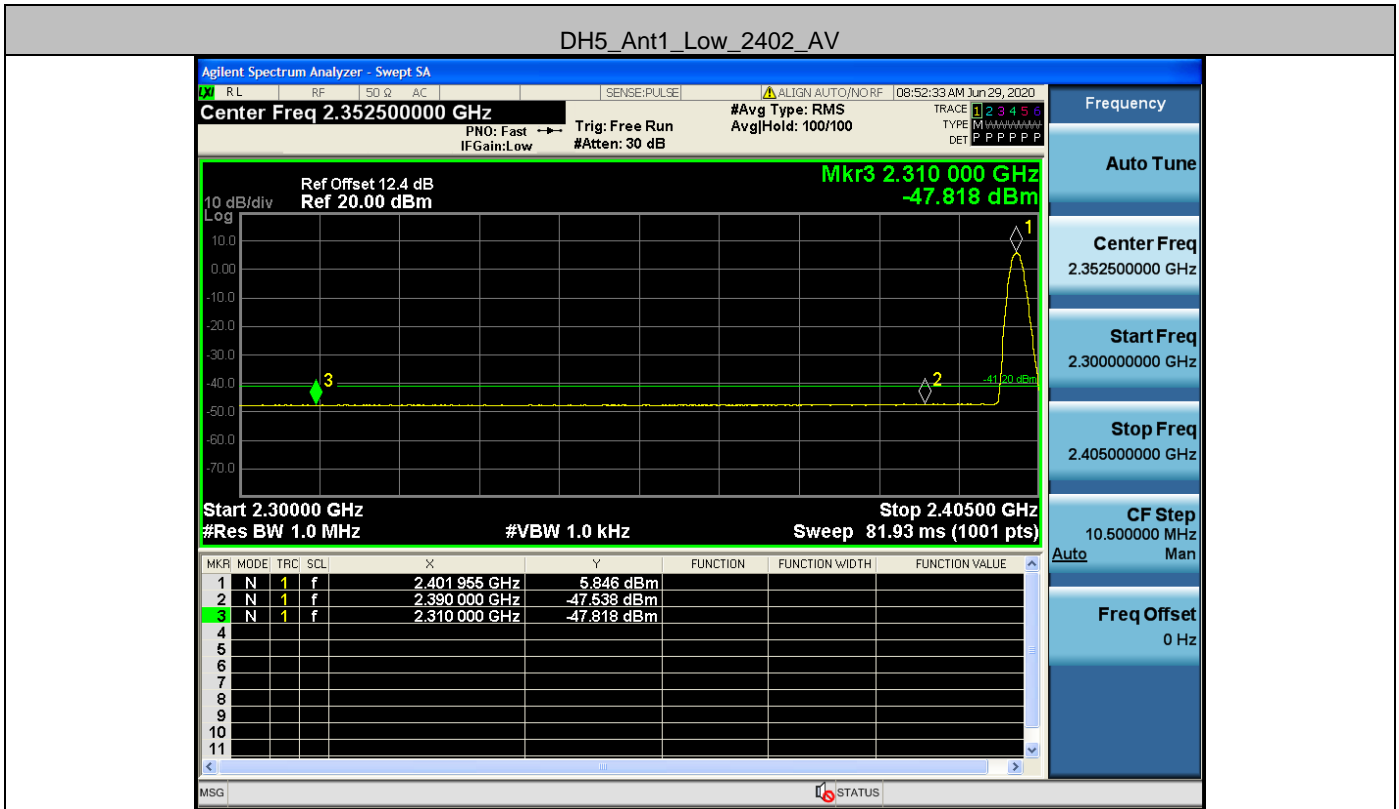
A.8 Restrict-band band-edge measurements

TestMode	Antenna	ChName	Channel	Detector	Freq	Result	Limit	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-47.81	<=-41.20	PASS
				AV	2390.000	-47.53	<=-41.20	PASS
				Peak	2310.000	-40.56	<=-21.20	PASS
				Peak	2390.000	-42.04	<=-21.20	PASS
		High	2480	AV	2483.500	-46.56	<=-41.20	PASS
				AV	2500.000	-46.78	<=-41.20	PASS
				Peak	2483.500	-39.08	<=-21.20	PASS
				Peak	2500.000	-39.99	<=-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 Graph



DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak

