

Appendix A

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

Product Name: Headphone
Trade Mark: TOMATIS, INFINITE

Test Model: Infinite
FCC ID: 2AQR2-INFINITE

Environmental Conditions

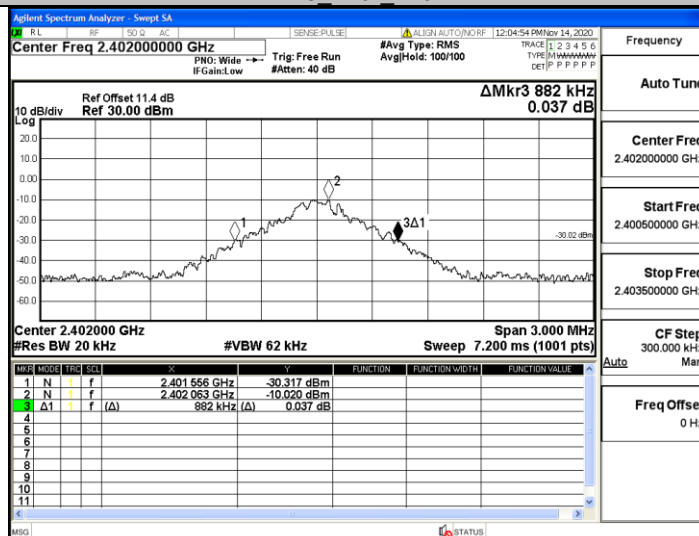
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Nancy Li
Supervised by:	Hugo Chen

A.1 20 dB Bandwidth

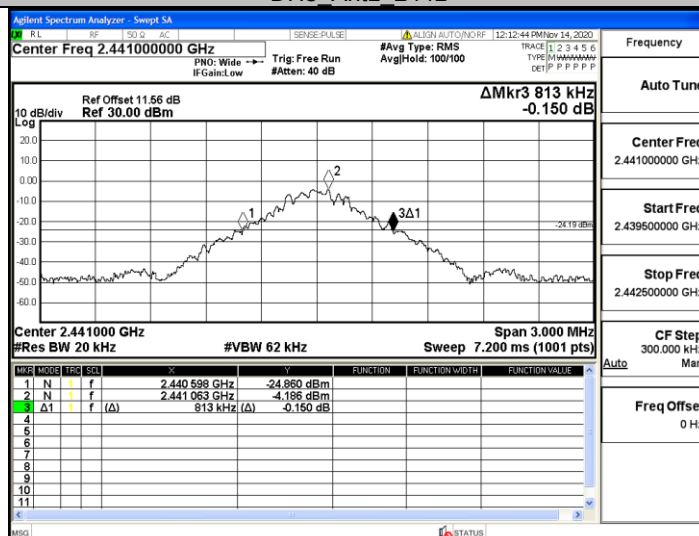
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.882	2401.556	2402.438	---	PASS
		2441	0.813	2440.598	2441.411	---	PASS
		2480	0.849	2479.556	2480.405	---	PASS
2DH5	Ant1	2402	1.194	2401.406	2402.600	---	PASS
		2441	1.314	2440.349	2441.663	---	PASS
		2480	1.317	2479.346	2480.663	---	PASS

Test Graph

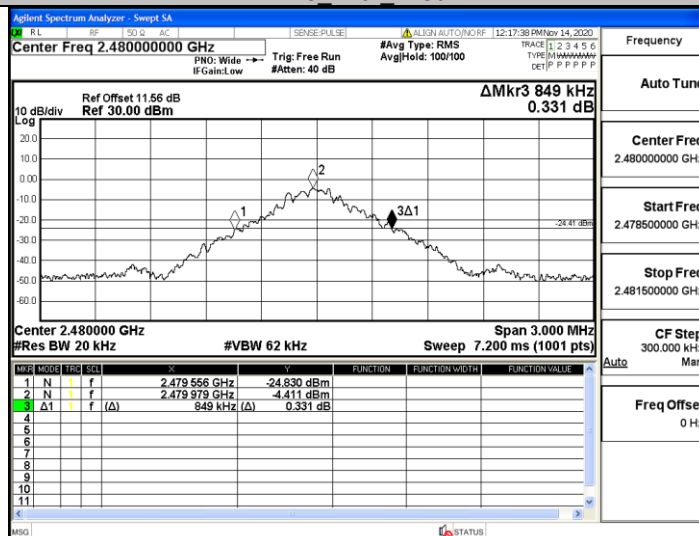
DH5_Ant1_2402



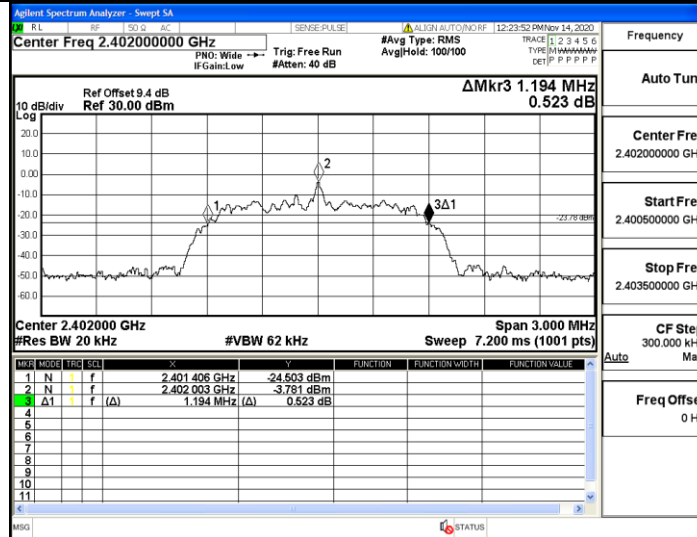
DH5_Ant1_2441



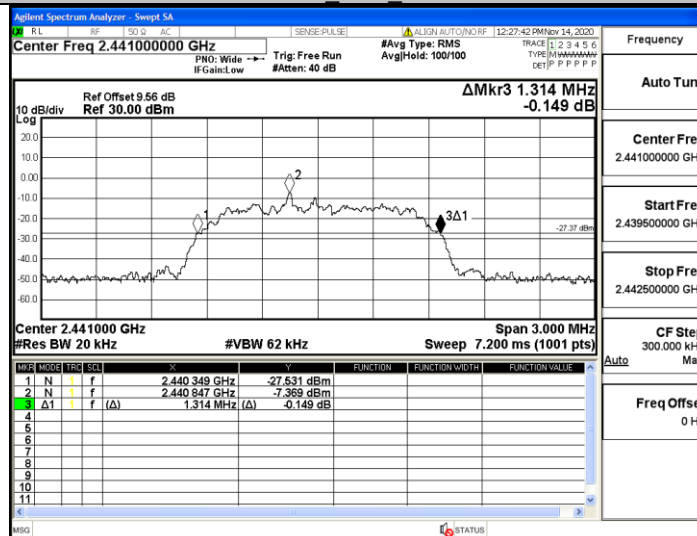
DH5_Ant1_2480



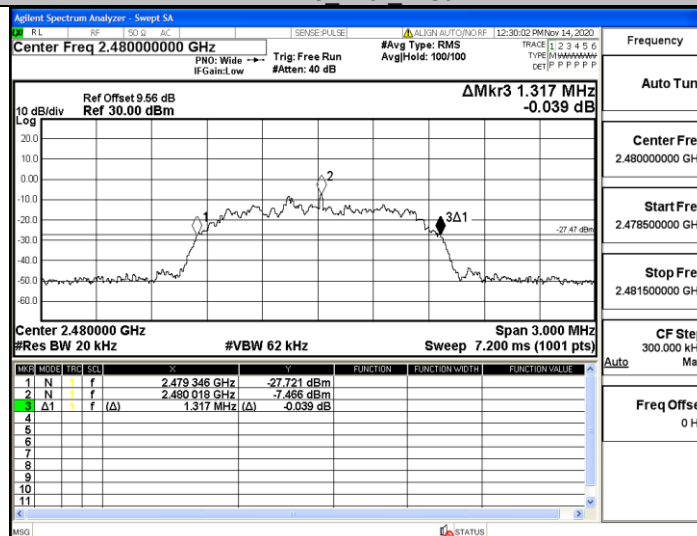
2DH5_Ant1_2402



2DH5_Ant1_2441



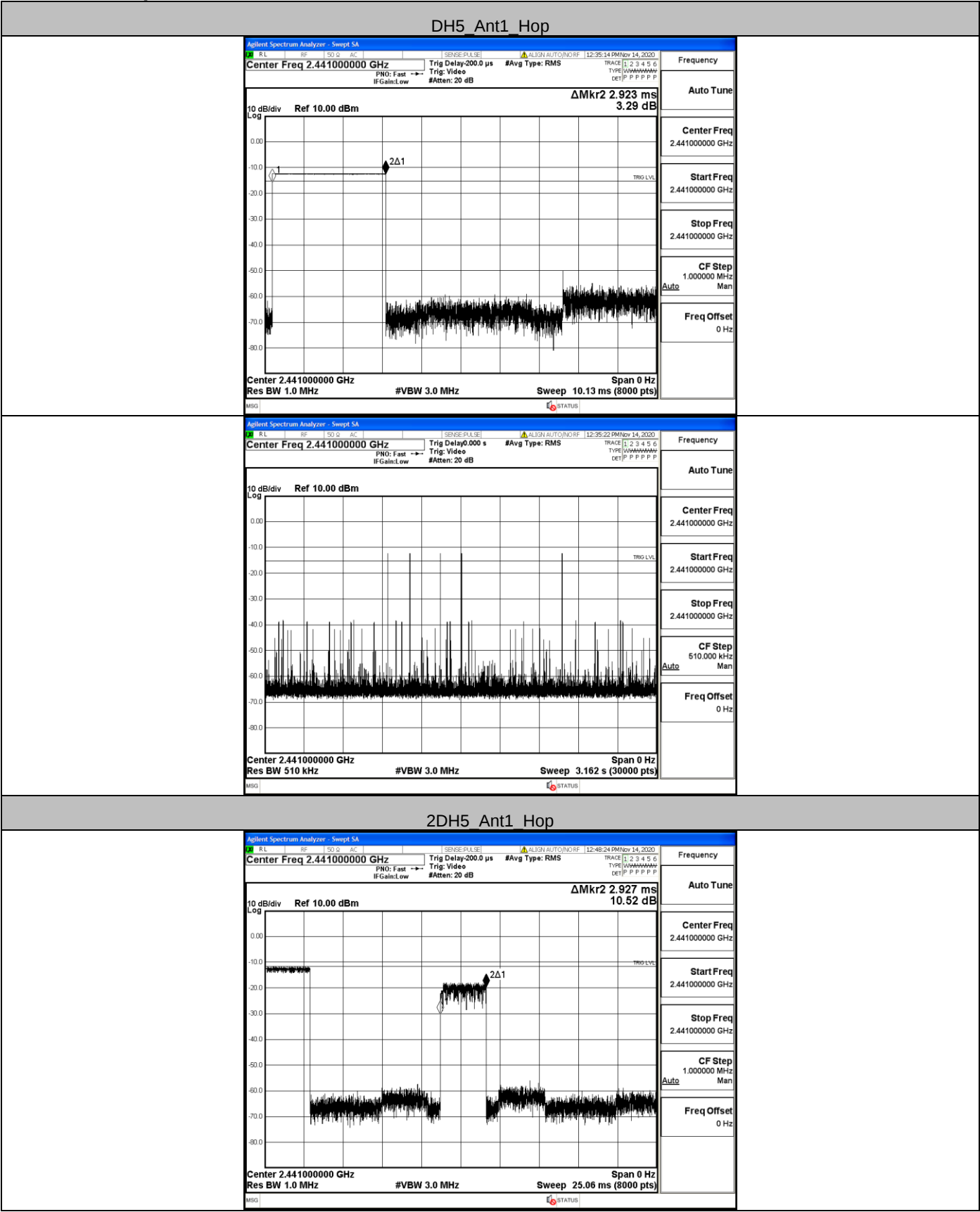
2DH5_Ant1_2480



A.2 Dwell Time

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.92	60	0.175	<=0.4	PASS
2DH5	Ant1	Hop	2.93	130	0.38	<=0.4	PASS

Test Graph



Agilent Spectrum Analyzer - Sweep SA

RL

RF

SO Q

AC

SENSE: PULSE

ALGN: AUTO/MO/RF

12:35:22 PM Nov 14, 2020

Center Freq 2.441000000 GHz

Trig Delay: 0.000 s

#Avg Type: RMS

TRAC: 1 2 3 4 5 6

TYPE: W W W W W W W W

DET: P P P P P P P

PNO: Fast

IF Gain: Low

#Atten: 20 dB

10 dB/div

Ref 10.00 dBm

Log

Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 3.162 s (30000 pts)

Span 0 Hz

MSG

STATUS

Frequency

Auto Tune

Center Freq 2.441000000 GHz

Start Freq 2.441000000 GHz

Stop Freq 2.441000000 GHz

CF Step 510.000 kHz

Auto

Freq Offset 0 Hz

2DH5_Ant1_Hop

Agilent Spectrum Analyzer - Sweep SA

RL

RF

SO Q

AC

SENSE: PULSE

ALGN: AUTO/MO/RF

12:48:24 PM Nov 14, 2020

Center Freq 2.441000000 GHz

Trig Delay: 200.0 μ s

#Avg Type: RMS

TRAC: 1 2 3 4 5 6

TYPE: W W W W W W W W

DET: P P P P P P P

PNO: Fast

IF Gain: Low

#Atten: 20 dB

10 dB/div

Ref 10.00 dBm

Log

Δ Mkr2 2.927 ms

10.52 dB

Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 25.06 ms (8000 pts)

Span 0 Hz

MSG

STATUS

Frequency

Auto Tune

Center Freq 2.441000000 GHz

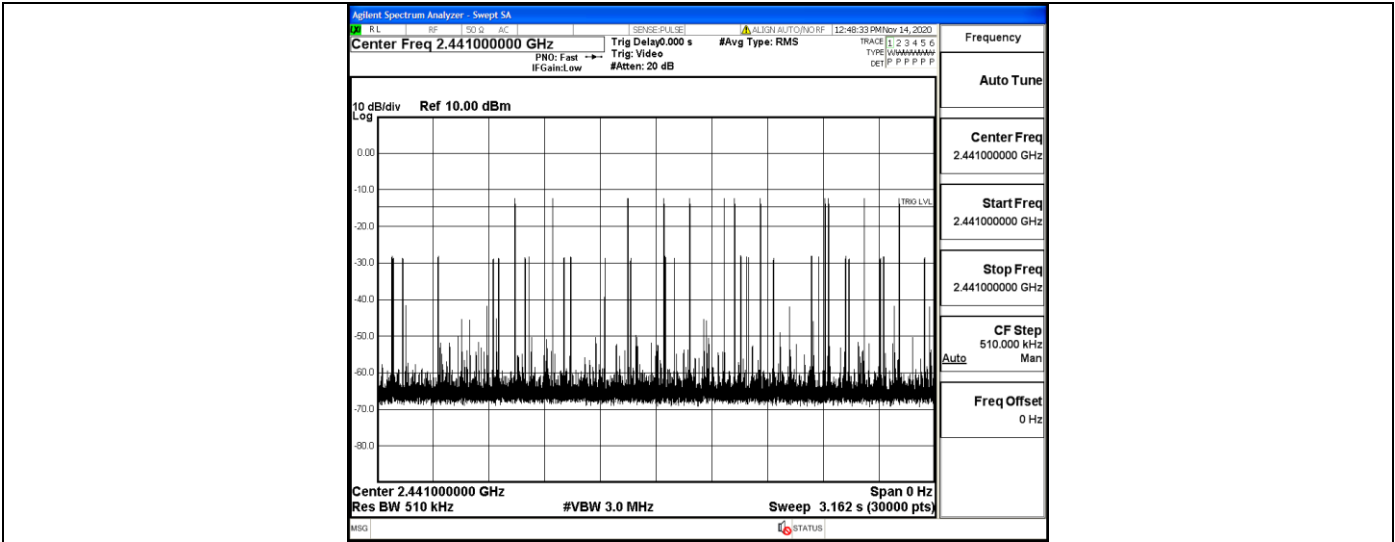
Start Freq 2.441000000 GHz

Stop Freq 2.441000000 GHz

CF Step 1.000000 MHz

Auto

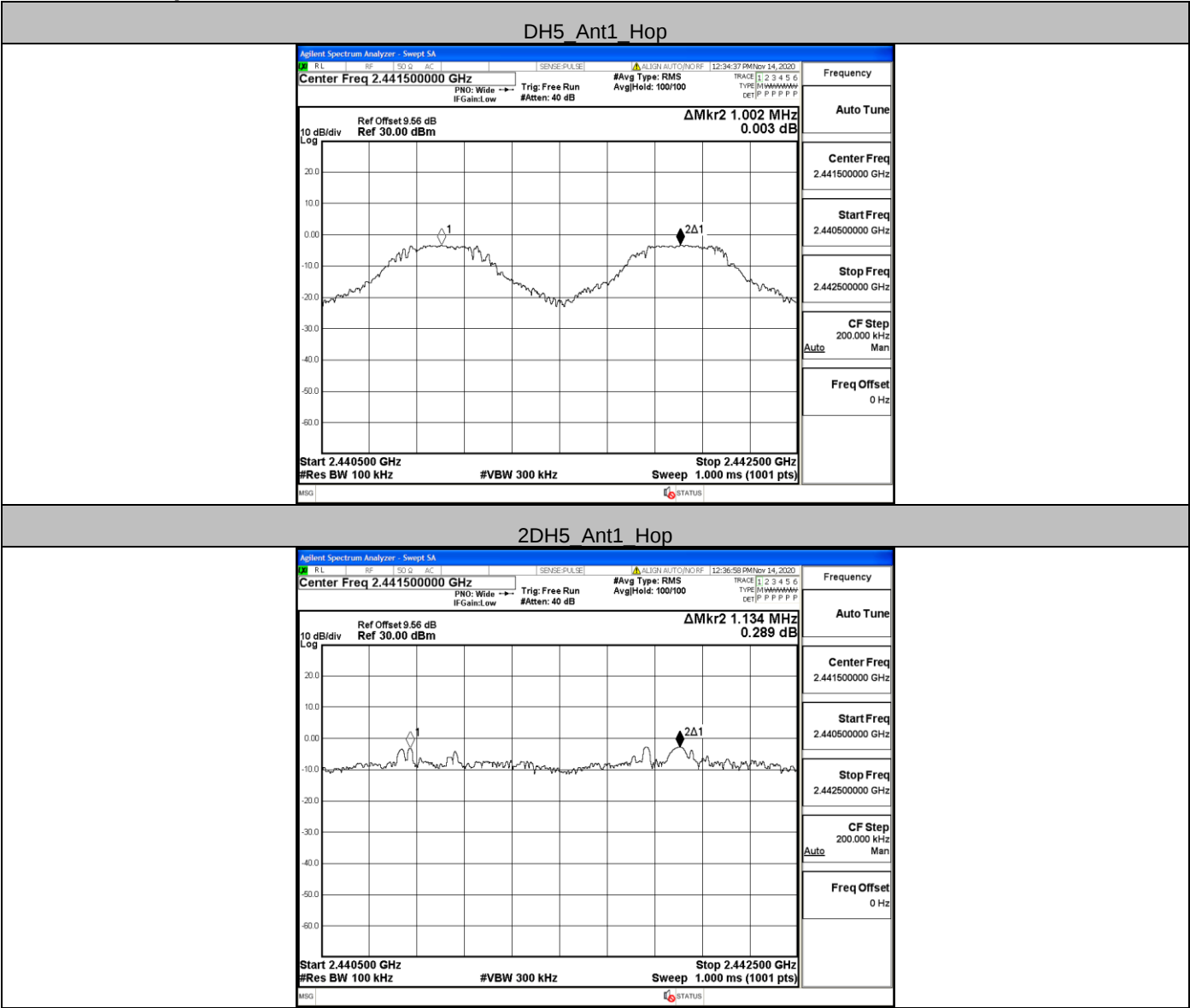
Freq Offset 0 Hz



A.3 Carrier Frequency Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.002	≥ 0.882	PASS
2DH5	Ant1	Hop	1.134	≥ 0.878	PASS

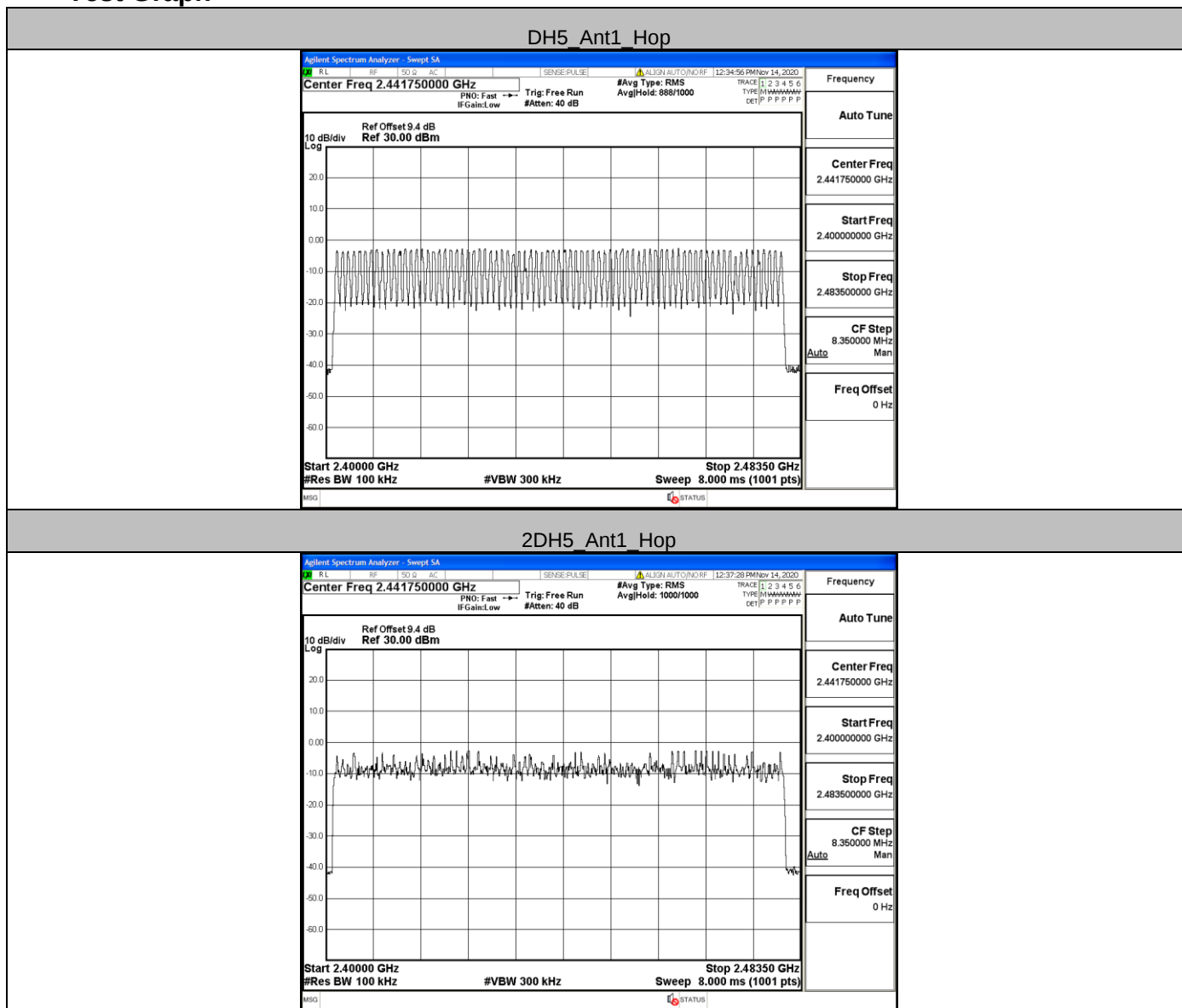
Test Graph



A.4 Hopping Channel Number

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

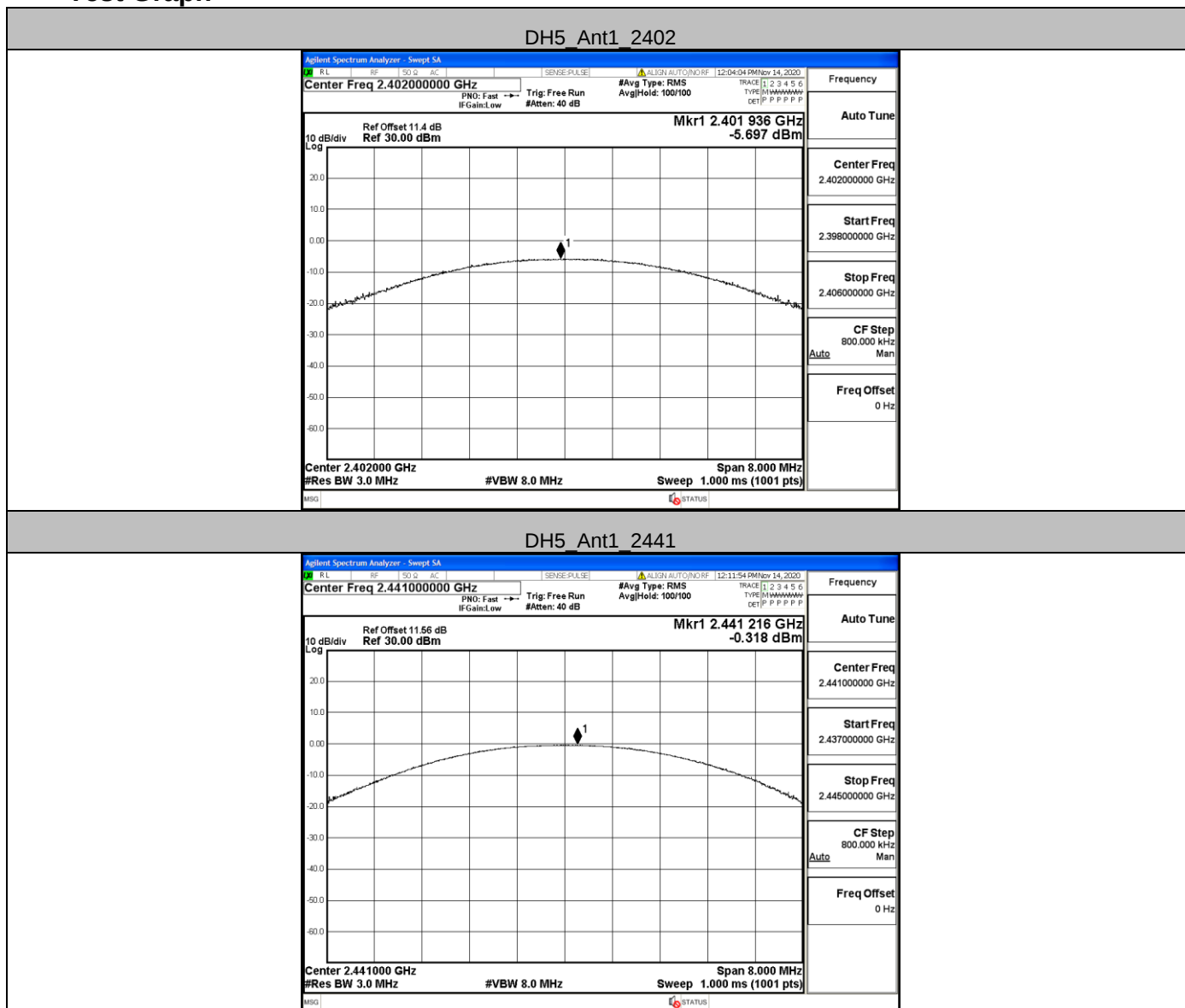
Test Graph



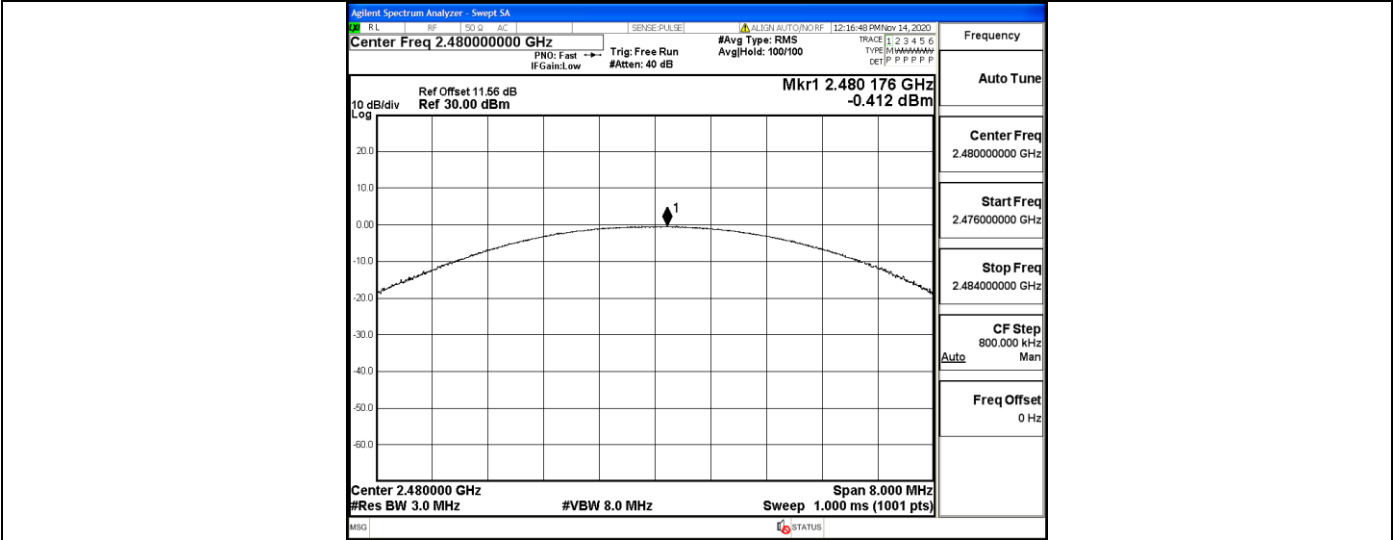
A.5 Conducted Peak Output Power

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-5.70	<=30	PASS
		2441	-0.31	<=20.97	PASS
		2480	-0.41	<=20.97	PASS
2DH5	Ant1	2402	-1.91	<=30	PASS
		2441	-1.60	<=20.97	PASS
		2480	-1.70	<=20.97	PASS

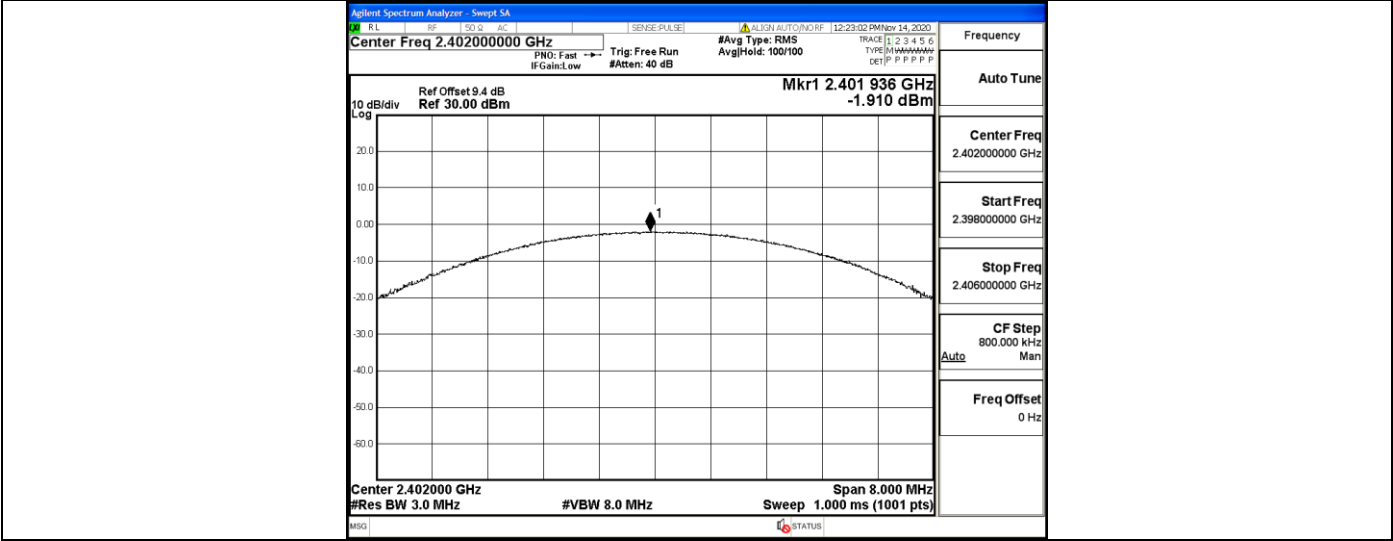
Test Graph



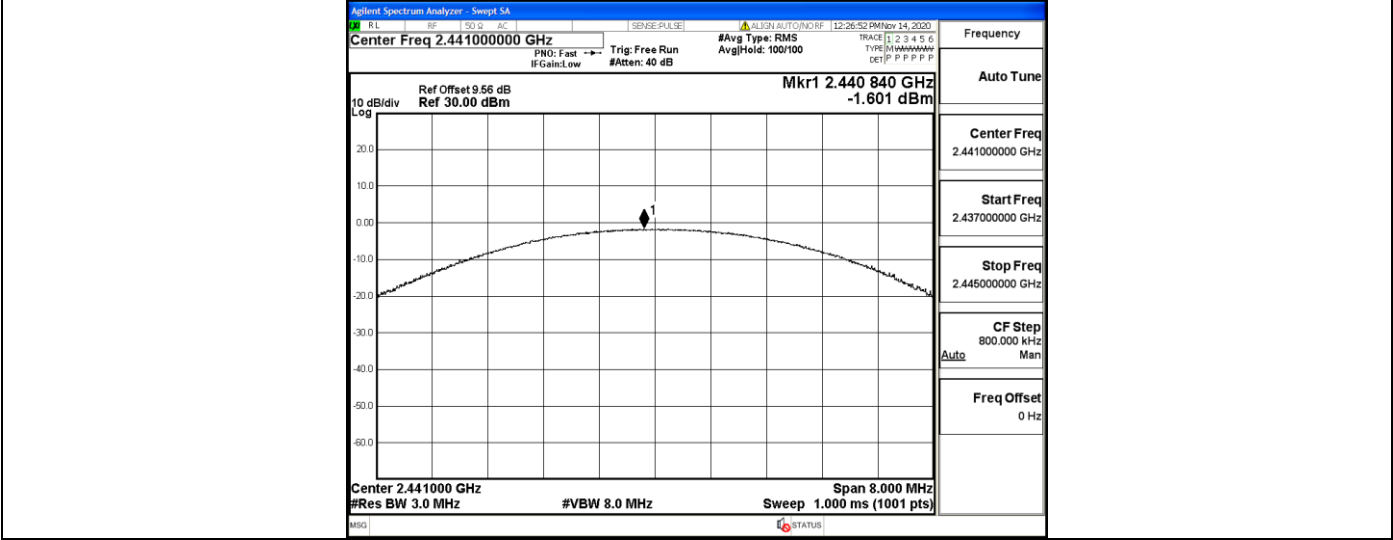
DH5_Ant1_2480

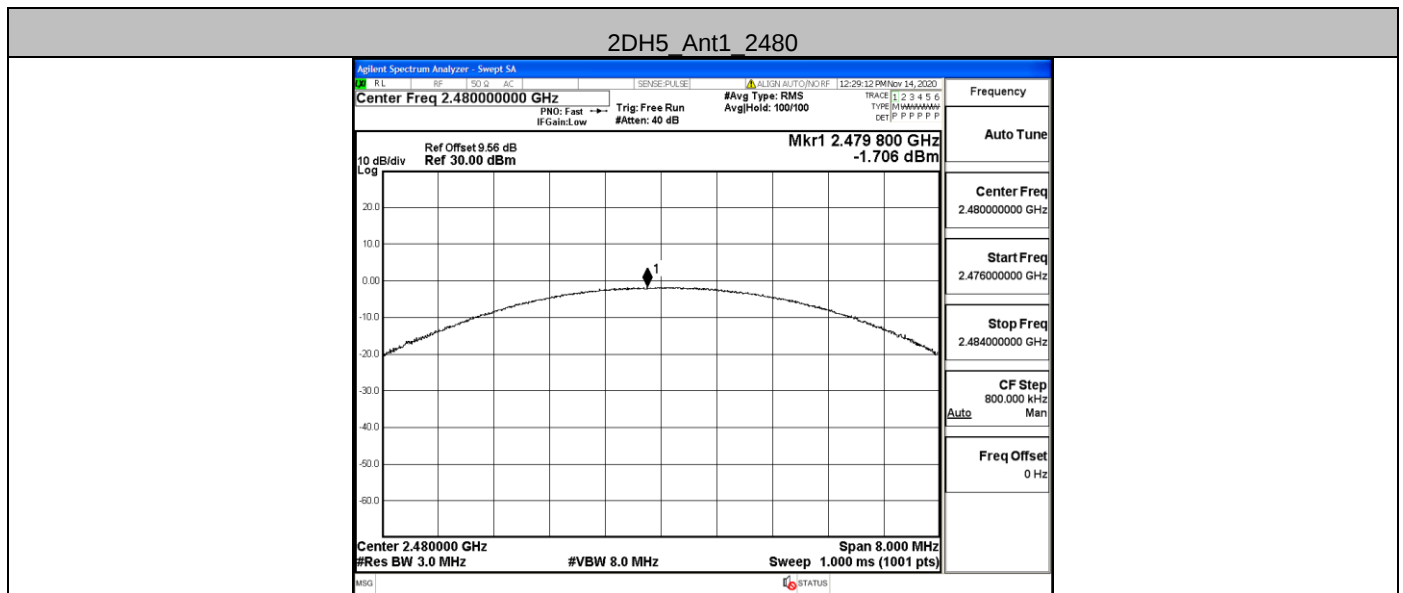


2DH5_Ant1_2402



2DH5_Ant1_2441



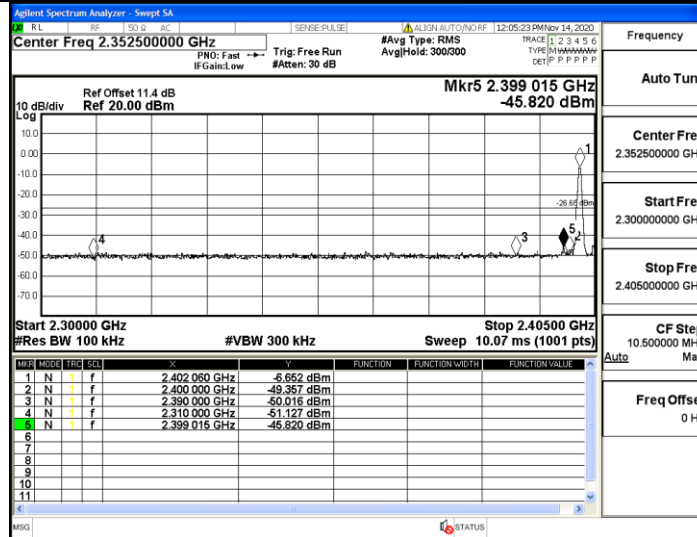


A.6 Band-edge for RF Conducted Emissions

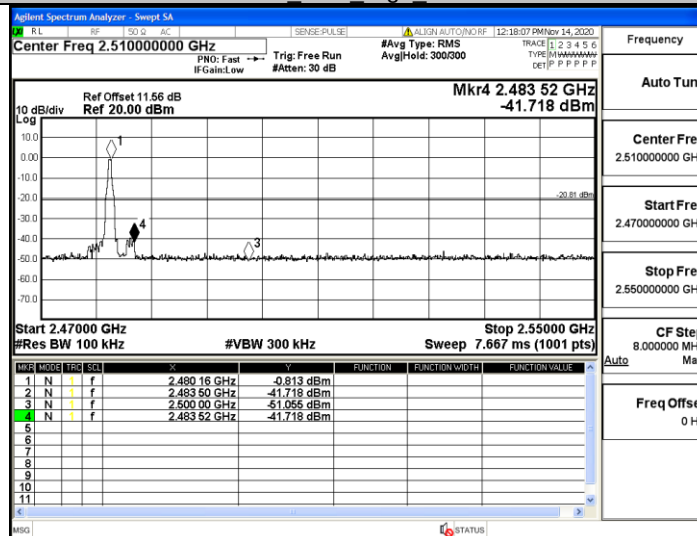
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-6.65	-45.82	<=-26.65	PASS
		High	2480	-0.81	-41.72	<=-20.81	PASS
		Low	Hop_2402	-3.86	-49.7	<=-23.86	PASS
		High	Hop_2480	-2.86	-48.72	<=-22.86	PASS
2DH5	Ant1	Low	2402	-3.17	-45.56	<=-23.17	PASS
		High	2480	-4.02	-43.14	<=-24.02	PASS
		Low	Hop_2402	-7.41	-49.8	<=-27.41	PASS
		High	Hop_2480	-5.68	-48.5	<=-25.68	PASS

Test Graph

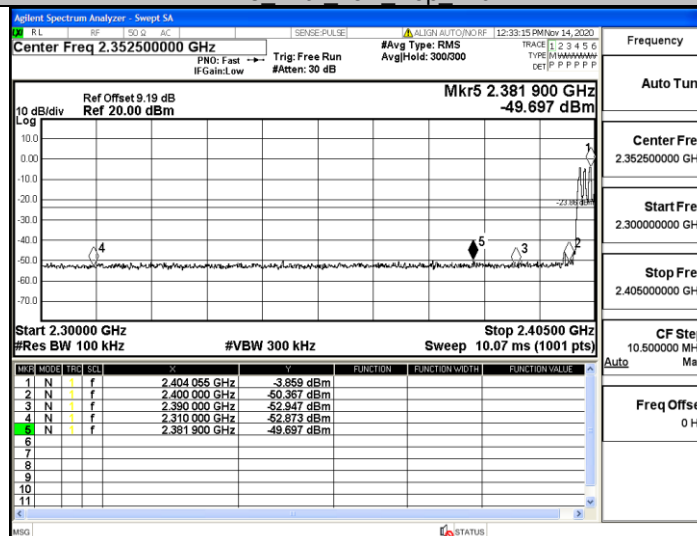
DH5_Ant1_Low_2402



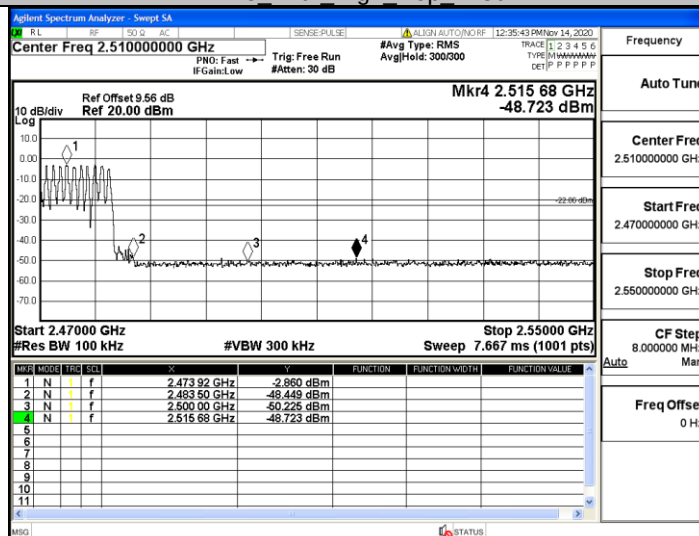
DH5_Ant1_High_2480



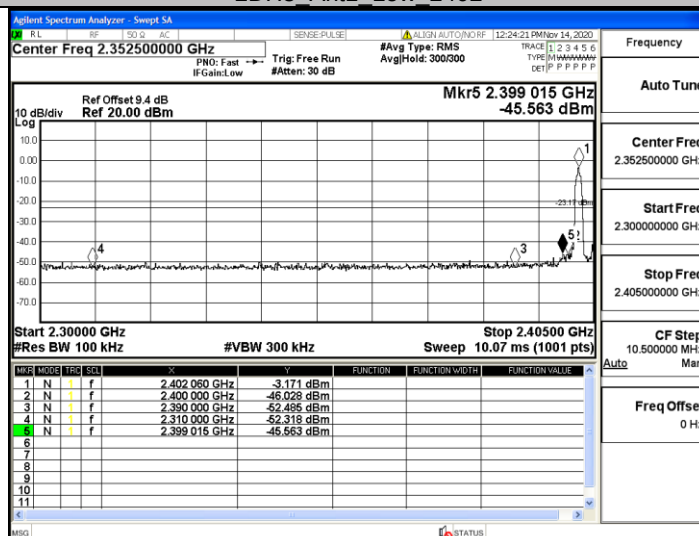
DH5_Ant1_Low_Hop_2402



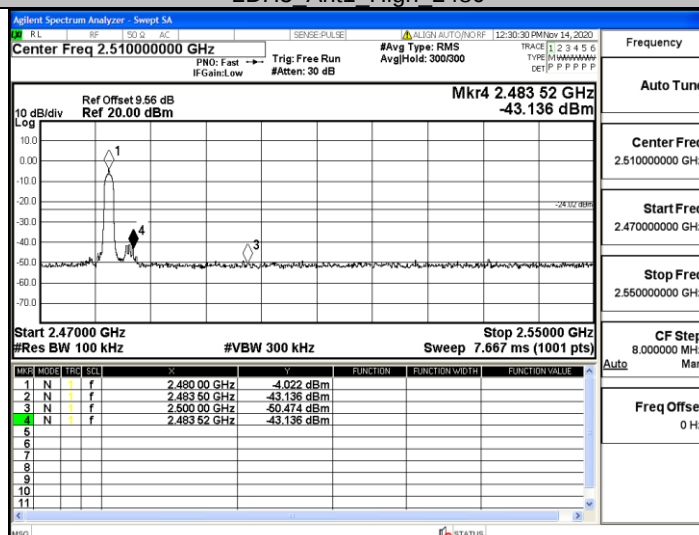
DH5_Ant1_High_Hop_2480



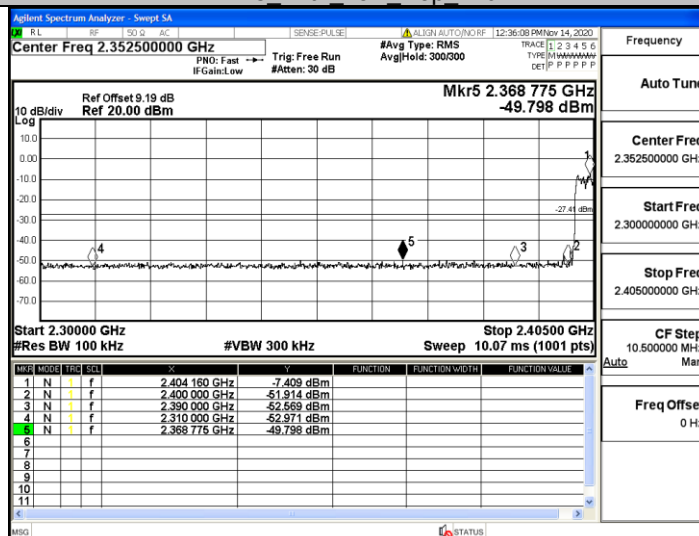
2DH5_Ant1_Low_2402



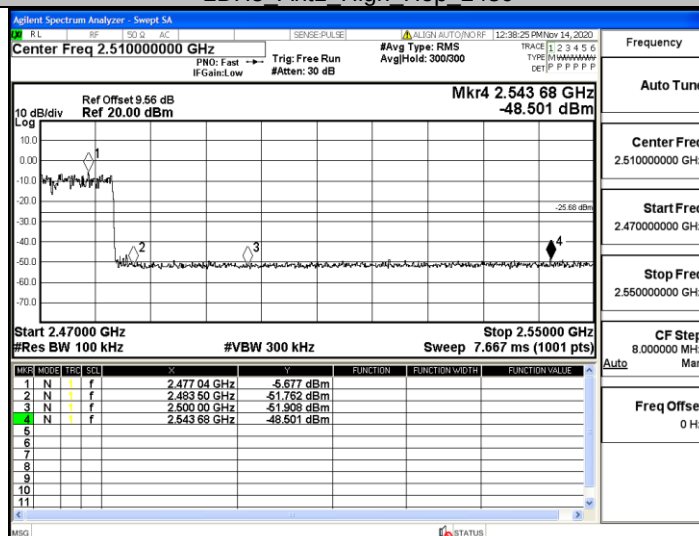
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



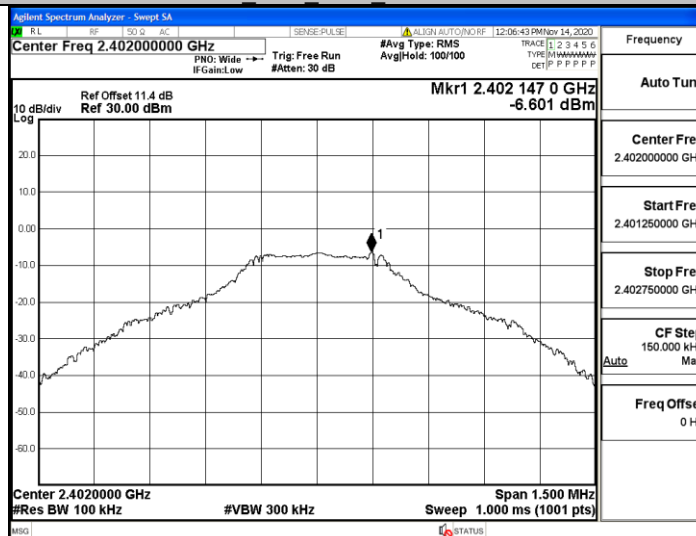
2DH5_Ant1_High_Hop_2480



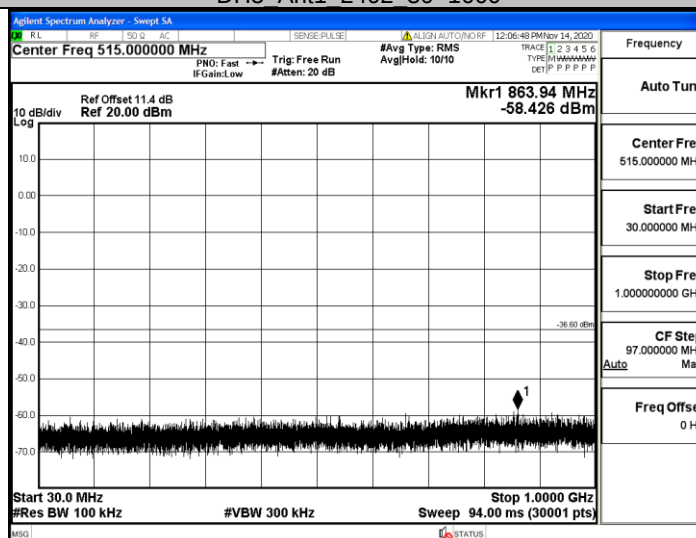
A.7 RF Conducted Spurious Emissions

Test Graph

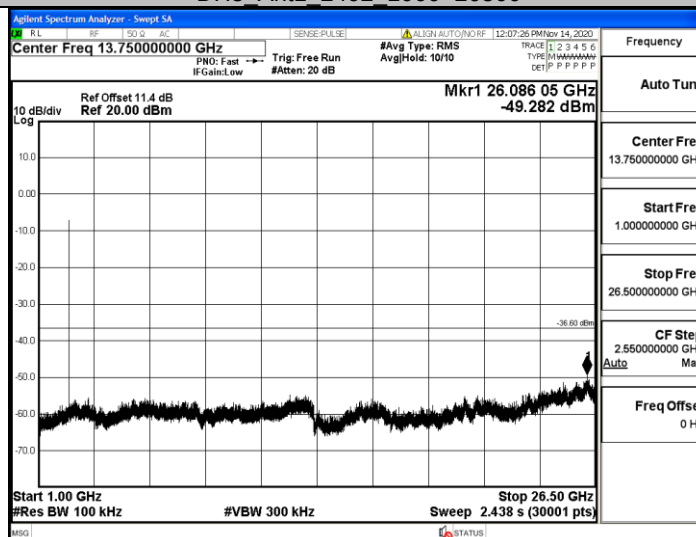
DH5_Ant1_2402_0-Reference



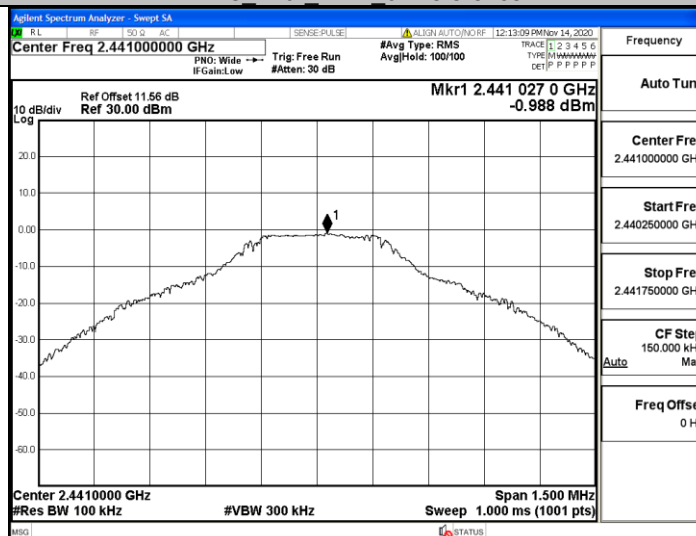
DH5_Ant1_2402_30~1000



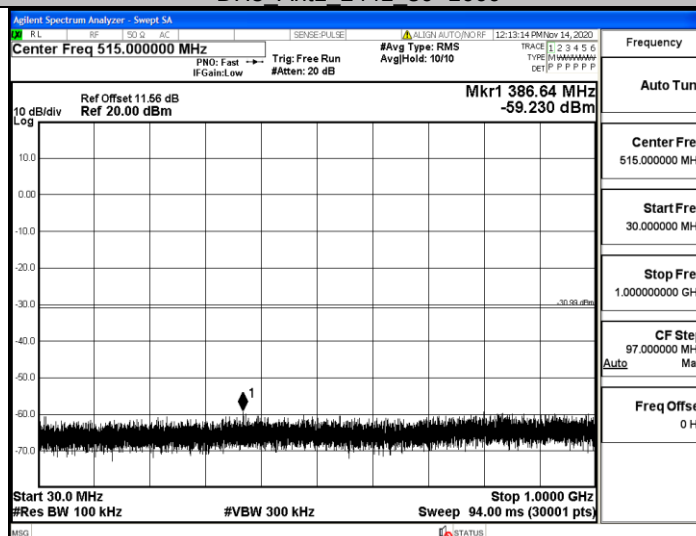
DH5_Ant1_2402_1000~26500



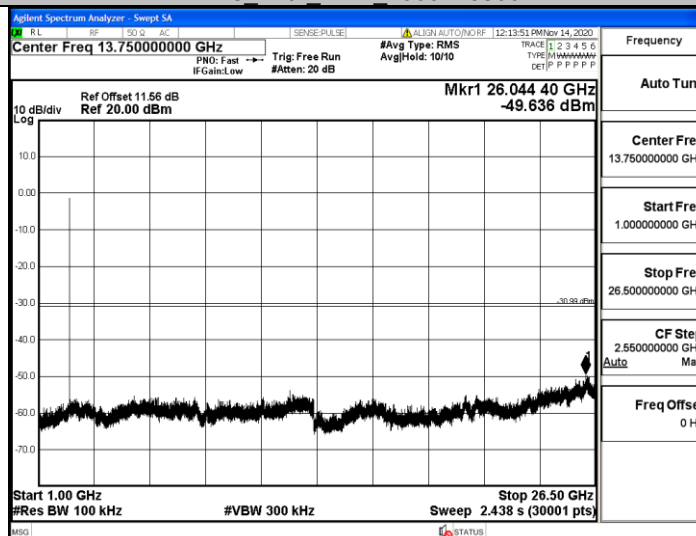
DH5_Ant1_2441_0-Reference



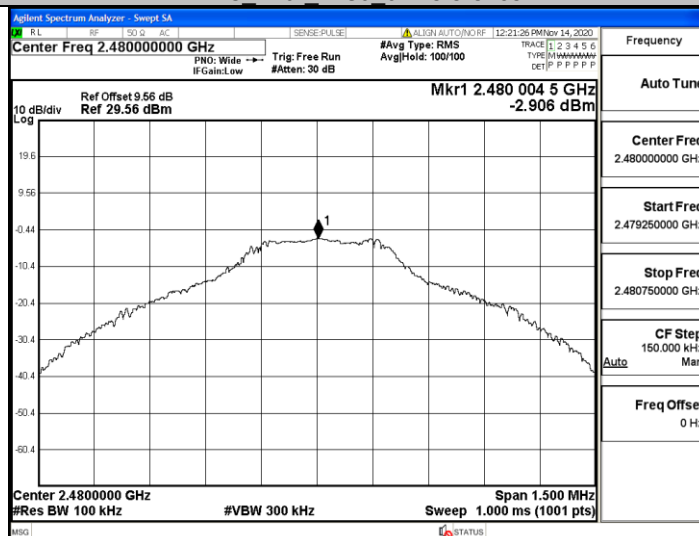
DH5_Ant1_2441_30-1000



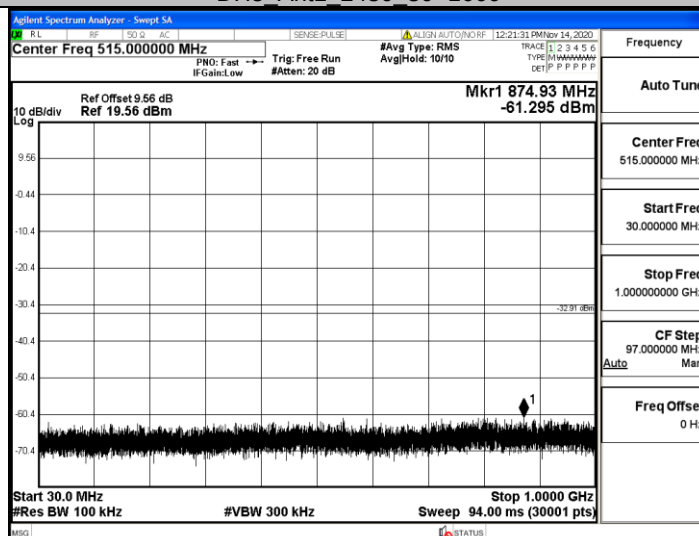
DH5_Ant1_2441_1000-26500



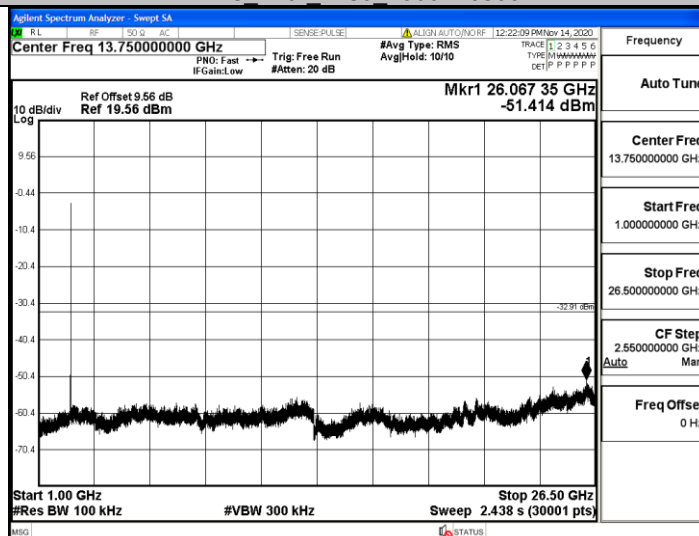
DH5_Ant1_2480_0-Reference



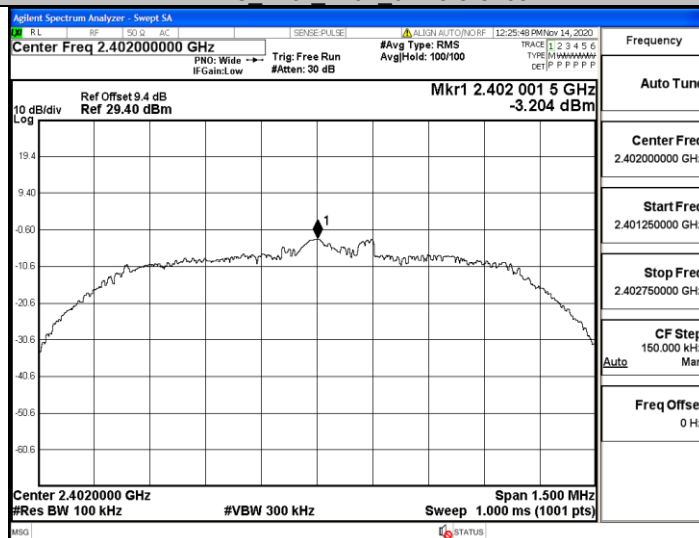
DH5_Ant1_2480_30-1000



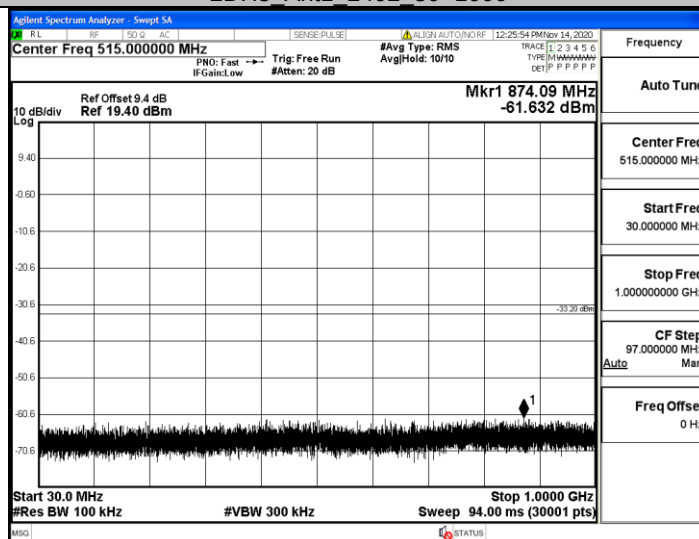
DH5_Ant1_2480_1000-26500



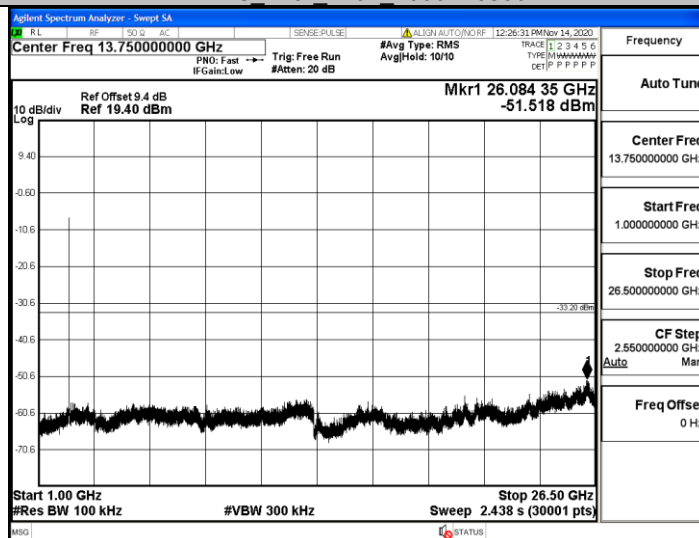
2DH5_Ant1_2402_0~Reference



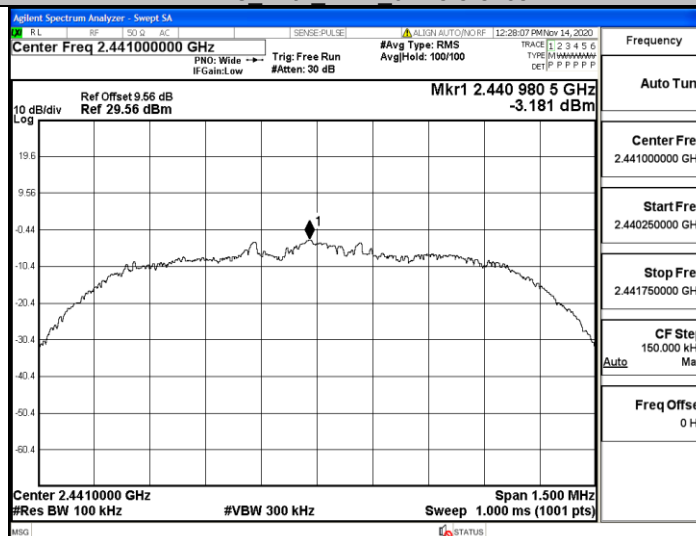
2DH5_Ant1_2402_30~1000



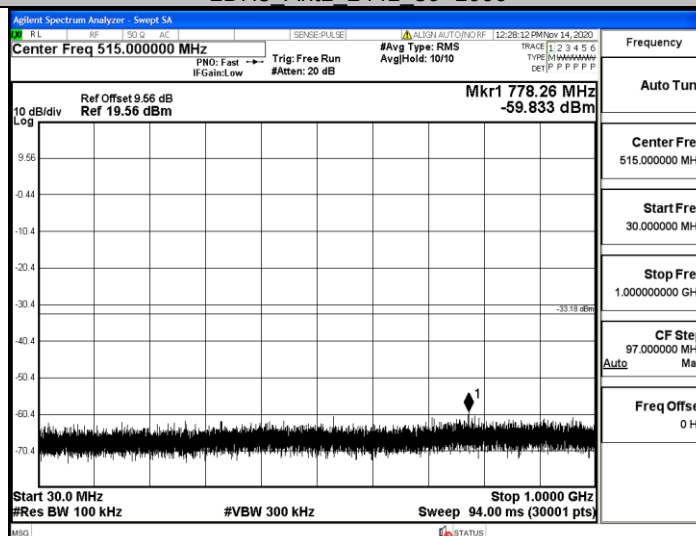
2DH5_Ant1_2402_1000~26500



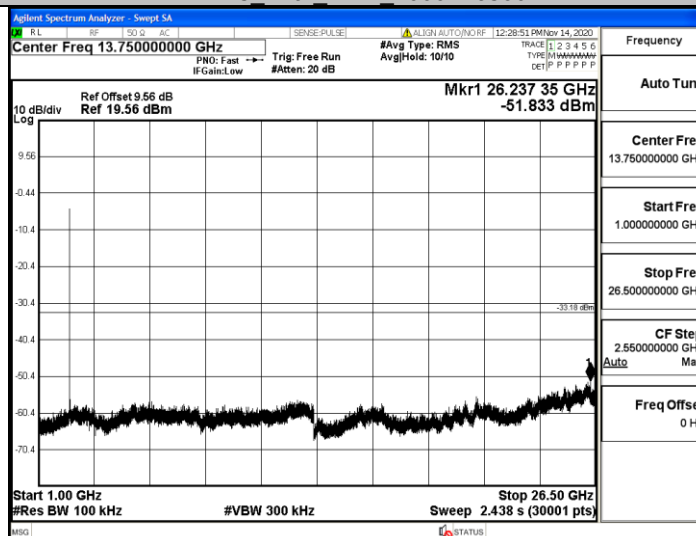
2DH5_Ant1_2441_0~Reference



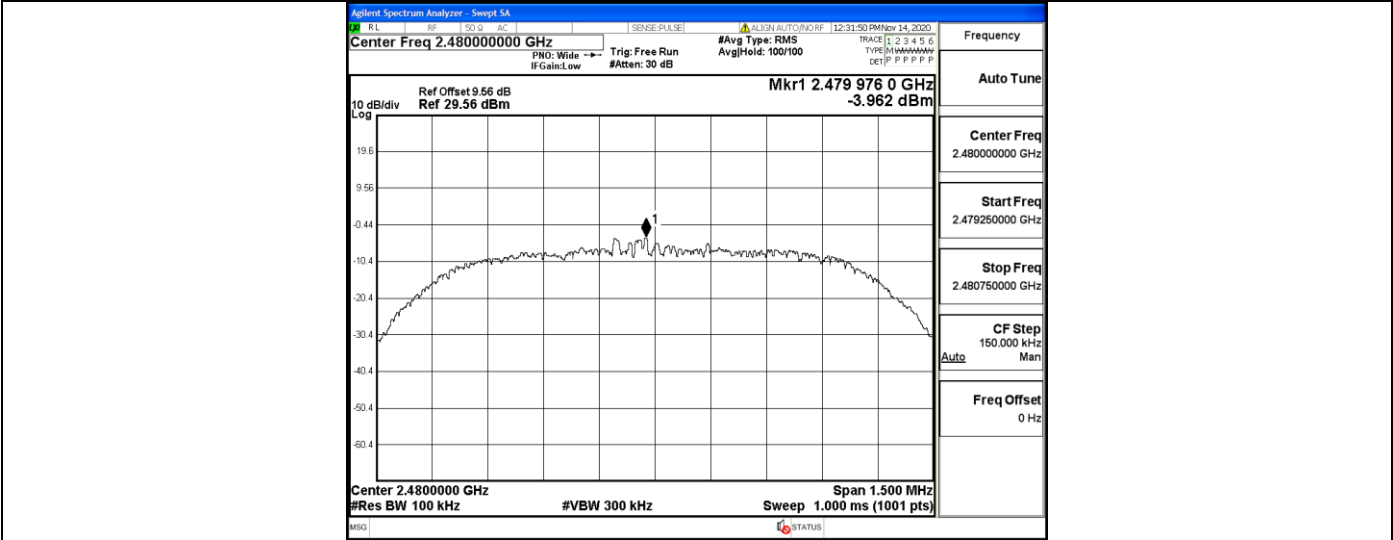
2DH5_Ant1_2441_30~1000



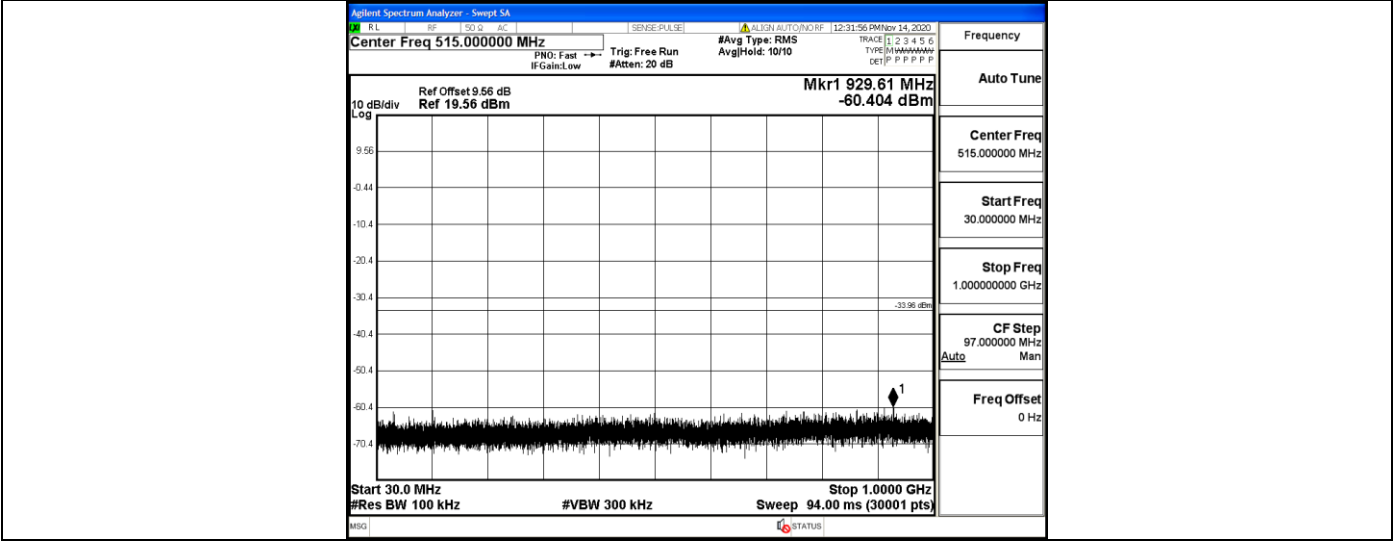
2DH5_Ant1_2441_1000~26500



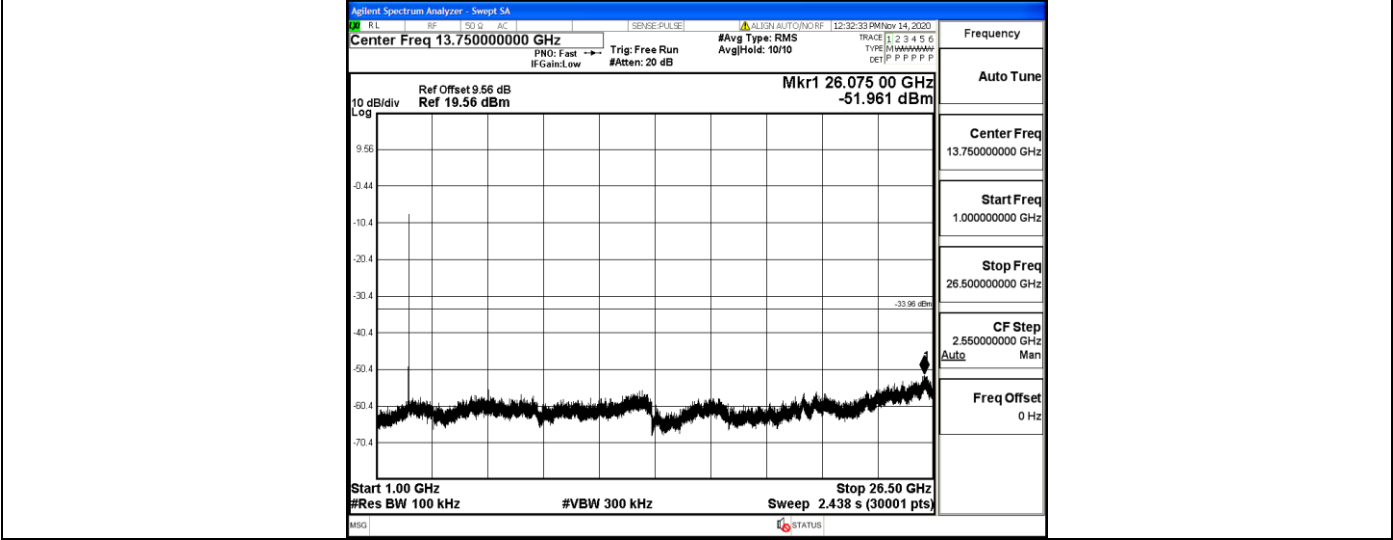
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500



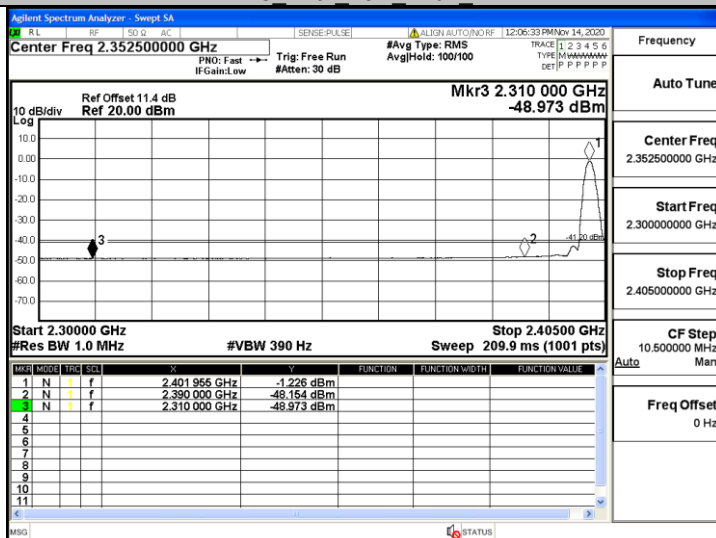
A.8 Restrict-band band-edge measurements

TestMode	Antenna	ChName	Channel	Detector	Freq	Result	Limit	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-48.97	<=-41.20	PASS
				AV	2390.000	-48.15	<=-41.20	PASS
				Peak	2310.000	-45.91	<=-21.20	PASS
				Peak	2390.000	-46.58	<=-21.20	PASS
		High	2480	AV	2483.500	-41.64	<=-41.20	PASS
				AV	2500.000	-47.93	<=-41.20	PASS
				Peak	2483.500	-36.53	<=-21.20	PASS
				Peak	2500.000	-41.23	<=-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.99	<=-41.20	PASS
				AV	2390.000	-48.1	<=-41.20	PASS
				Peak	2310.000	-41.47	<=-21.20	PASS
				Peak	2390.000	-41.47	<=-21.20	PASS
		High	2480	AV	2483.500	-43.61	<=-41.20	PASS
				AV	2500.000	-47.7	<=-41.20	PASS
				Peak	2483.500	-36.29	<=-21.20	PASS
				Peak	2500.000	-38.55	<=-21.20	PASS

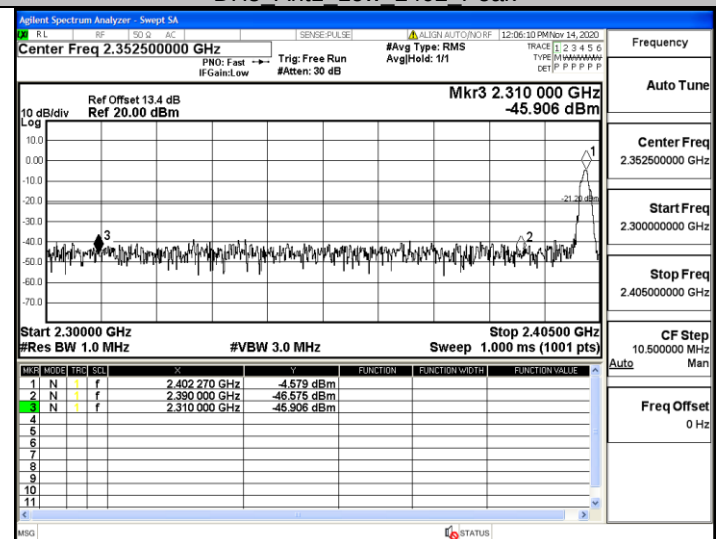
Note:

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.

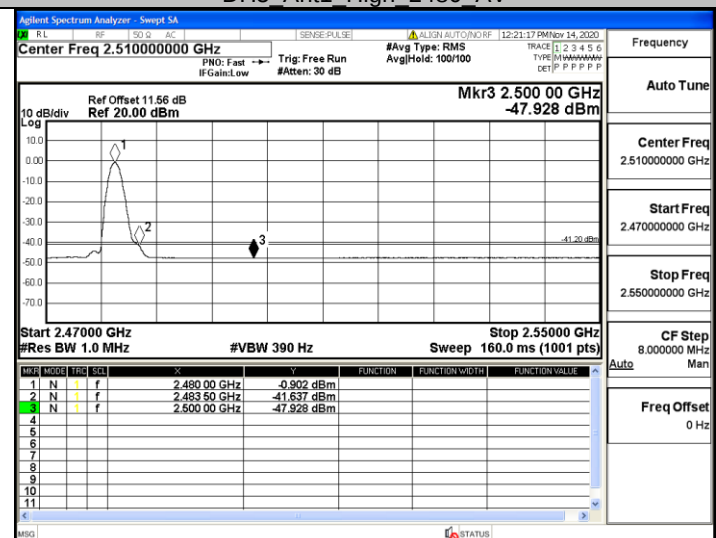
DH5 Ant1 Low 2402 AV



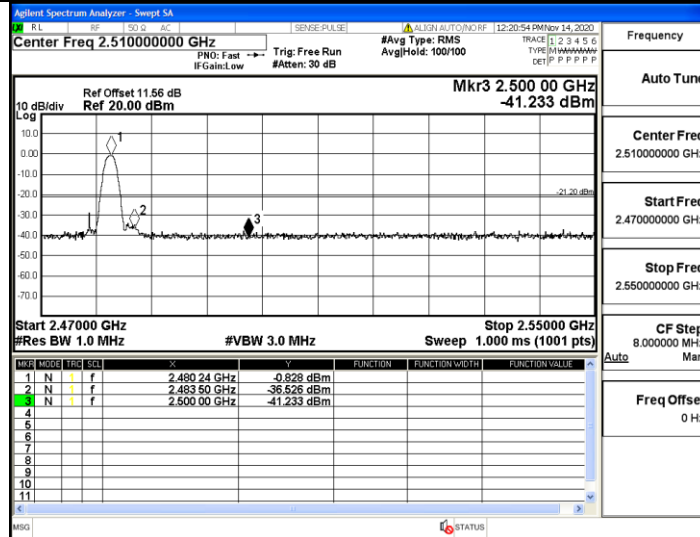
DH5 Ant1 Low 2402 Peak



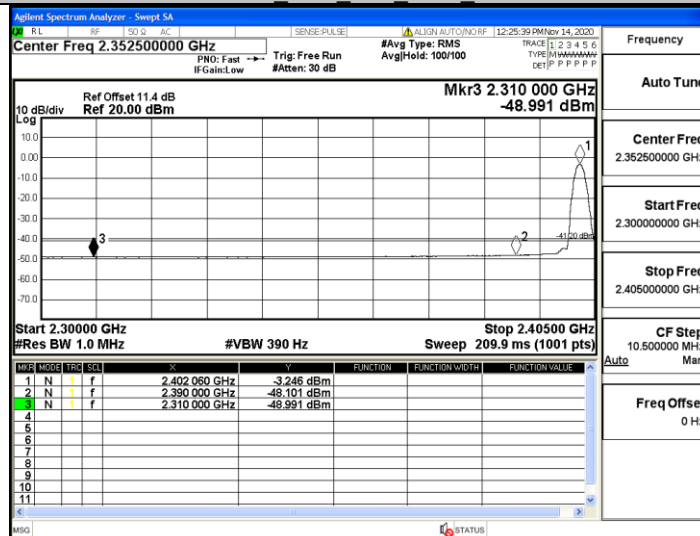
DH5 Ant1 High 2480 AV



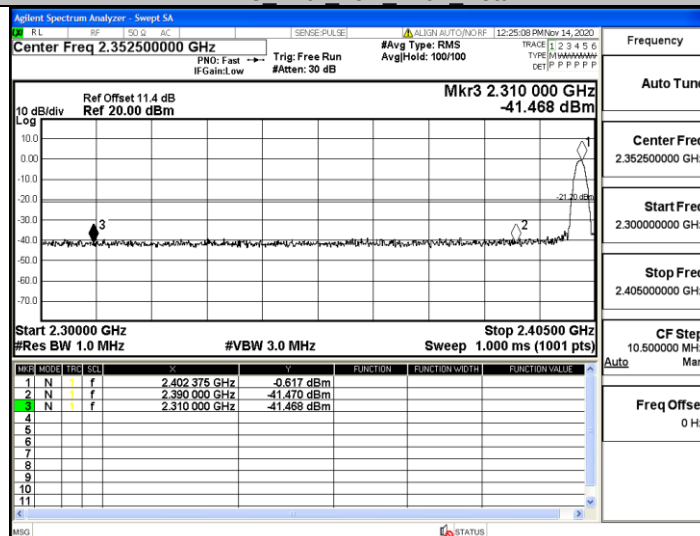
DH5 Ant1 High 2480 Peak



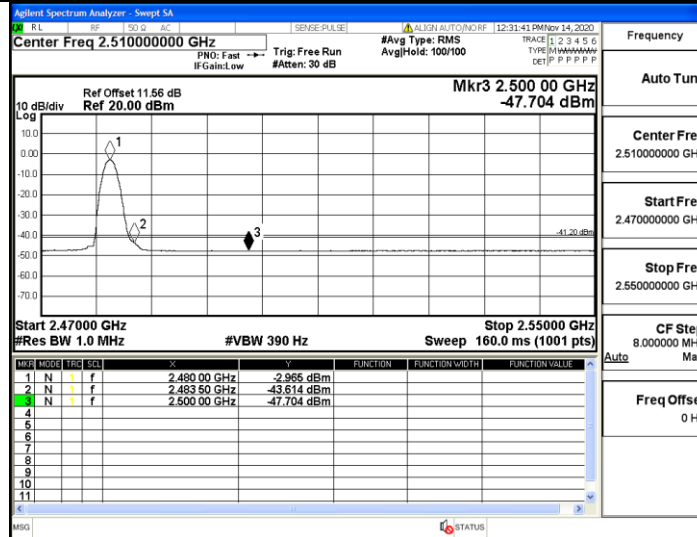
2DH5 Ant1 Low 2402 AV



2DH5 Ant1 Low 2402 Peak



2DH5_Ant1_High_2480_AV



2DH5_Ant1_High_2480 Peak

