



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth speaker

Test Model: BSSK1082

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Mark Chen
Supervised by:	Li Huan

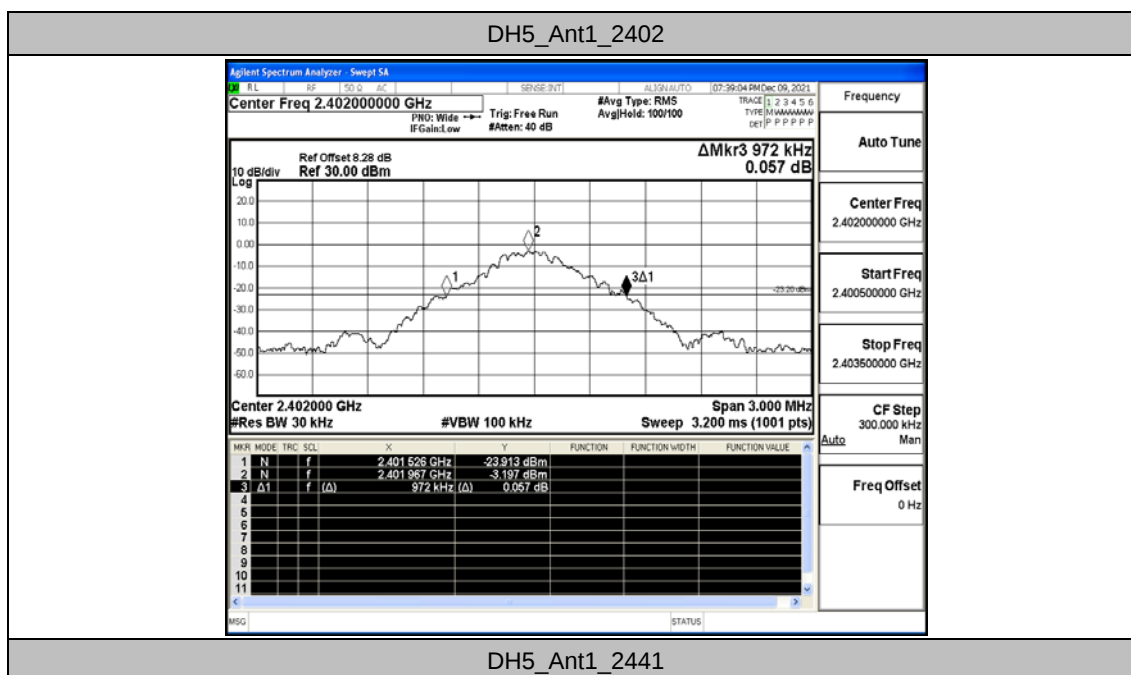


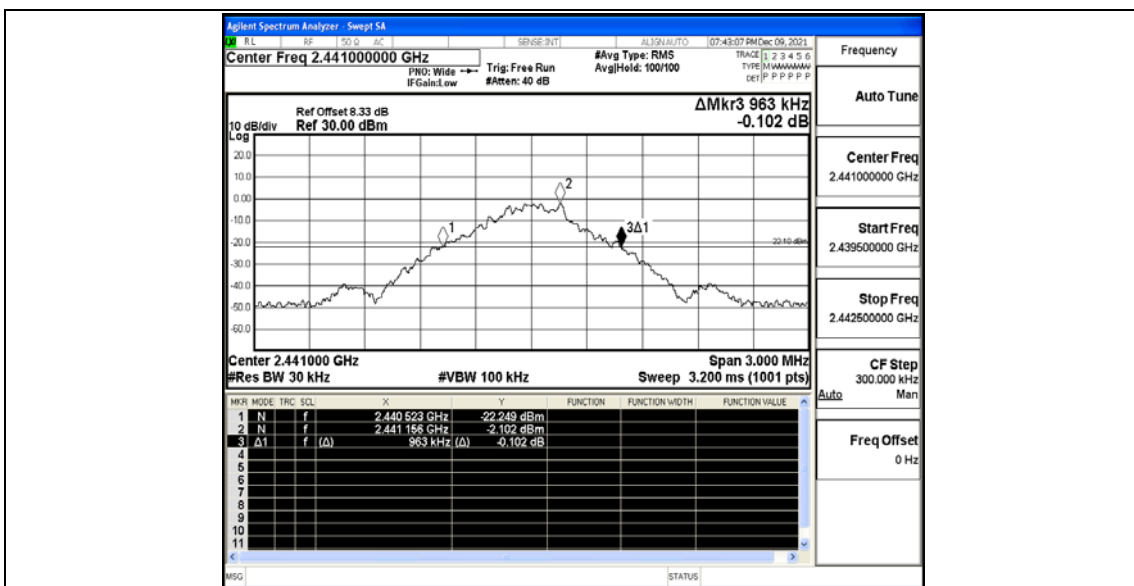
A.1 20dB Emission Bandwidth

Test Result

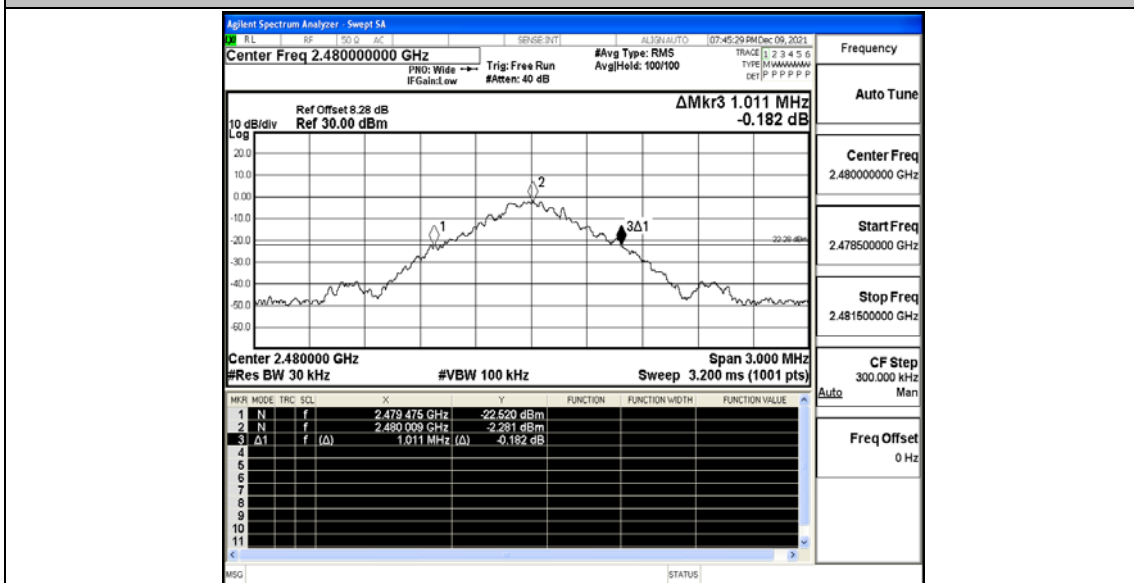
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.972	2401.526	2402.498	---	PASS
		2441	0.963	2440.523	2441.486	---	PASS
		2480	1.011	2479.475	2480.486	---	PASS
2DH5	Ant1	2402	1.296	2401.355	2402.651	---	PASS
		2441	1.311	2440.340	2441.651	---	PASS
		2480	1.287	2479.358	2480.645	---	PASS
3DH5	Ant1	2402	1.299	2401.343	2402.642	---	PASS
		2441	1.308	2440.337	2441.645	---	PASS
		2480	1.296	2479.349	2480.645	---	PASS

Test Graphs

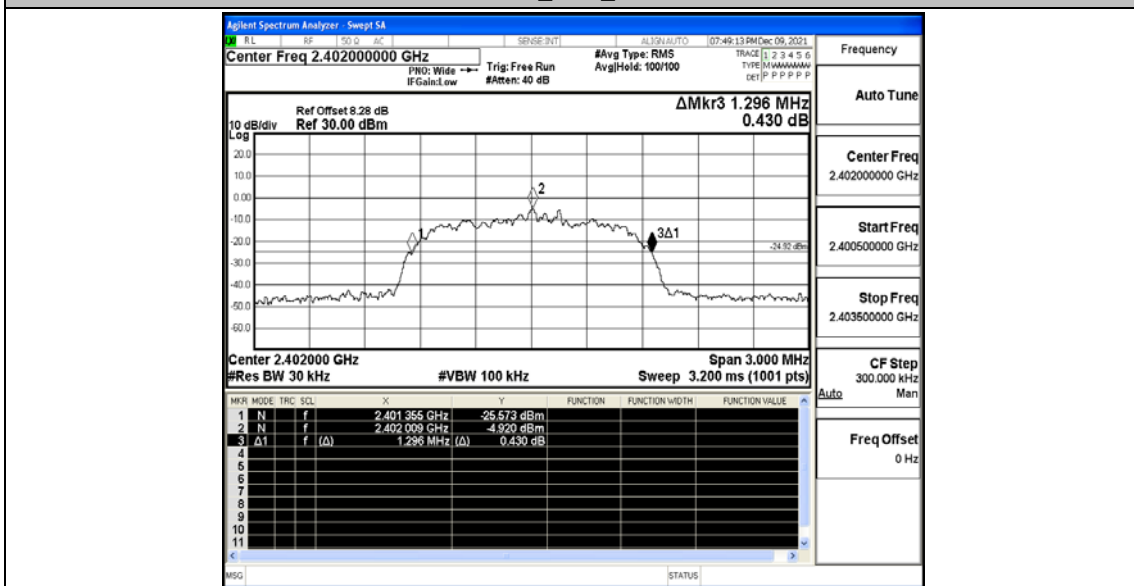




DH5_Ant1_2480

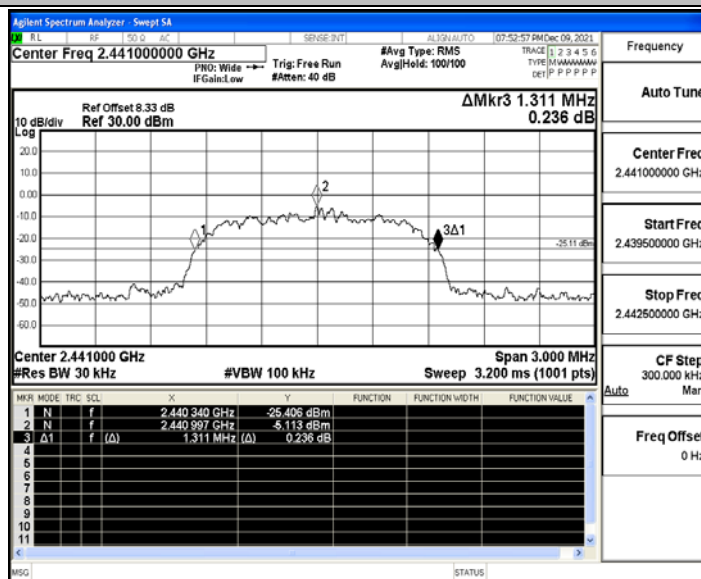


2DH5_Ant1_2402

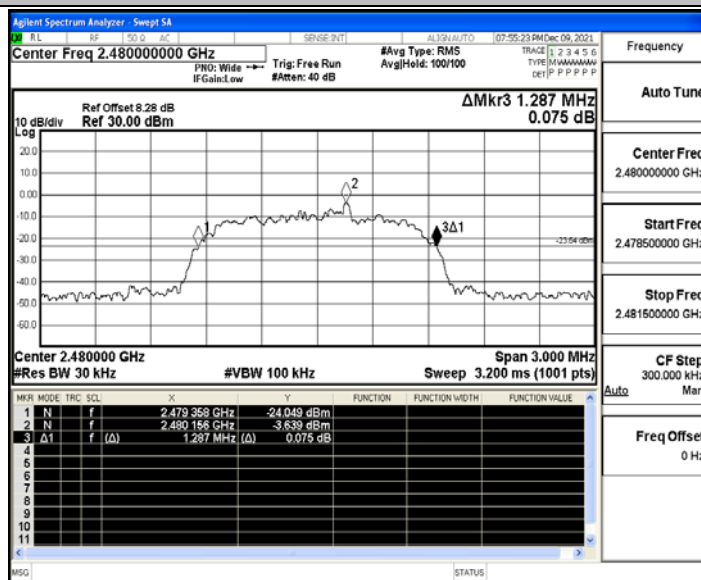




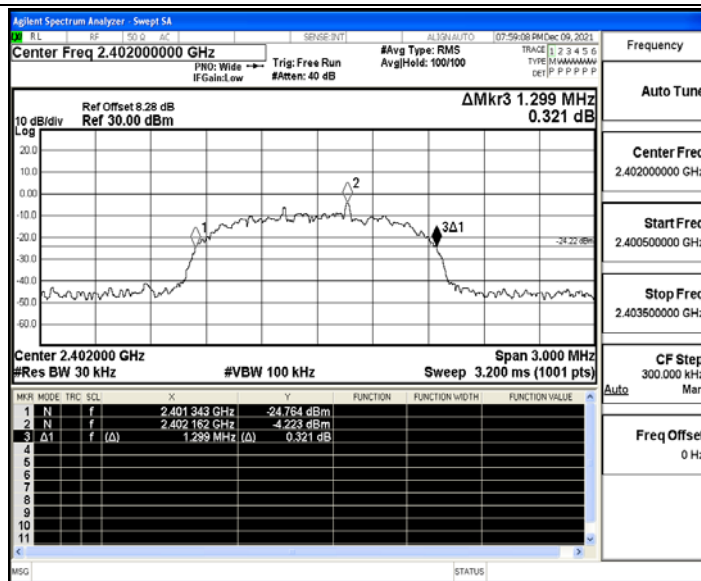
2DH5_Ant1_2441



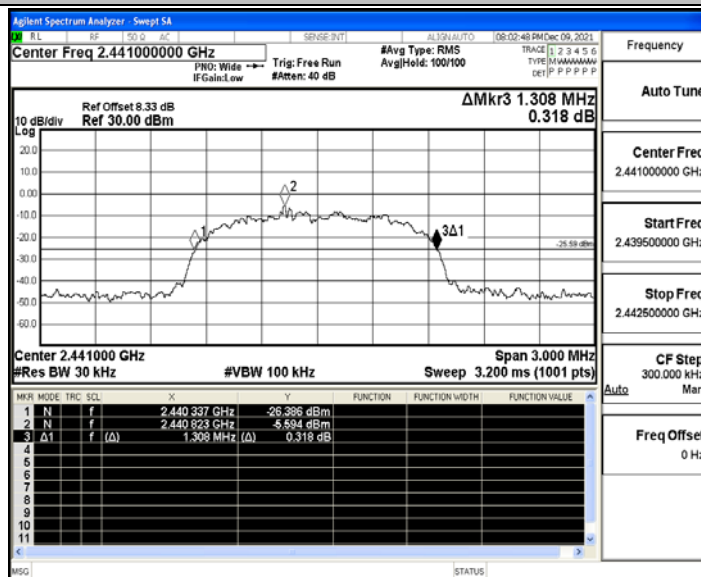
2DH5_Ant1_2480



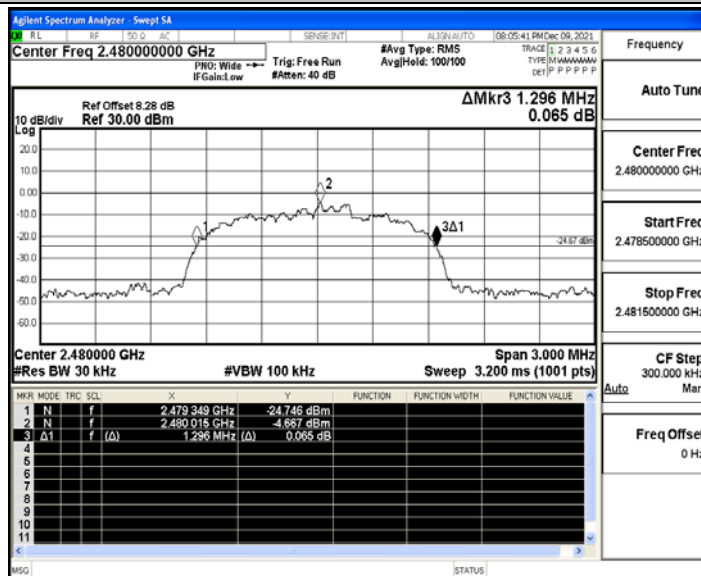
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.23	≤20.97	PASS
		2441	0.54	≤20.97	PASS
		2480	0.69	≤20.97	PASS
2DH5	Ant1	2402	-0.16	≤20.97	PASS
		2441	0.37	≤20.97	PASS
		2480	0.4	≤20.97	PASS
3DH5	Ant1	2402	-0.04	≤20.97	PASS
		2441	0.42	≤20.97	PASS
		2480	0.54	≤20.97	PASS

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.402000000 GHz

Ref Offset 8.28 dB
Ref 30.00 dBm

Mkr1 2.401 840 GHz
-0.232 dBm

Center 2.402000 GHz
#Res BW 3.0 MHz
#VBW 8.0 MHz
Sweep 1.000 ms (1001 pts)

Frequency

Auto Tune

Center Freq
2.402000000 GHz

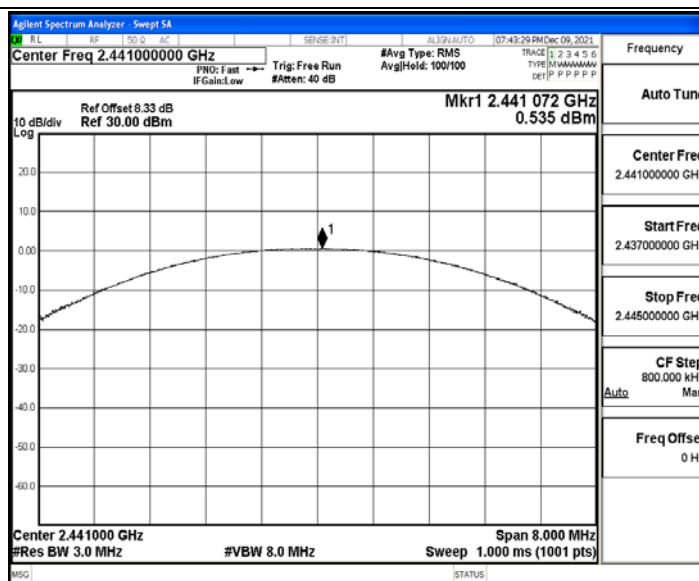
Start Freq
2.398000000 GHz

Stop Freq
2.406000000 GHz

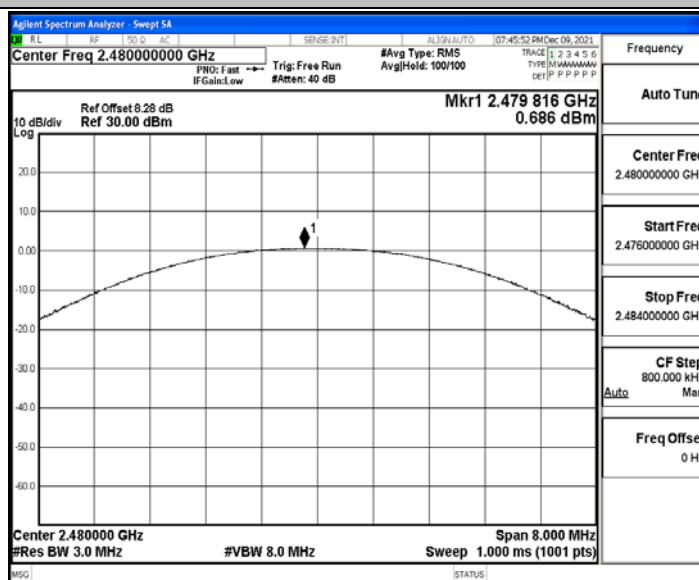
CF Step
800.000 kHz
Auto Man

Freq Offset
0 Hz

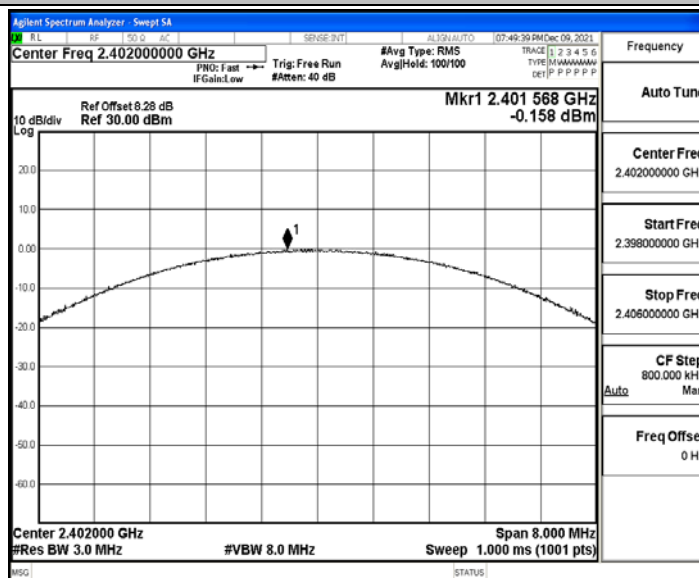
MSG STATUS



DH5_Ant1_2480

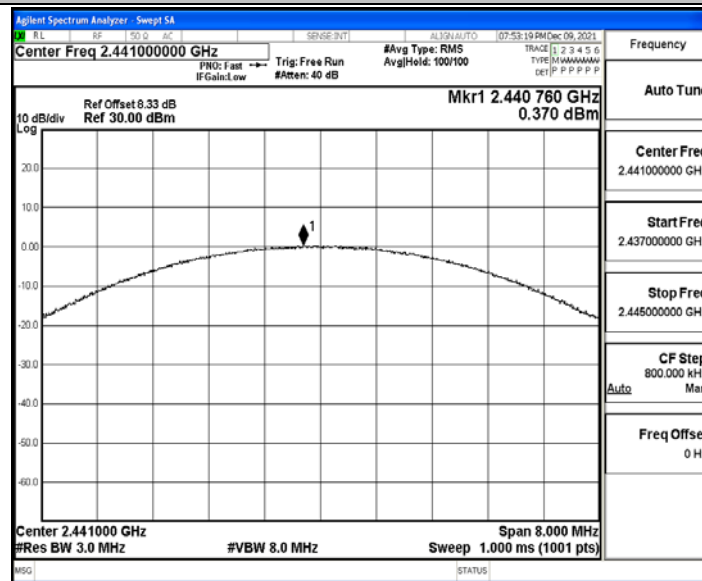


2DH5_Ant1_2402

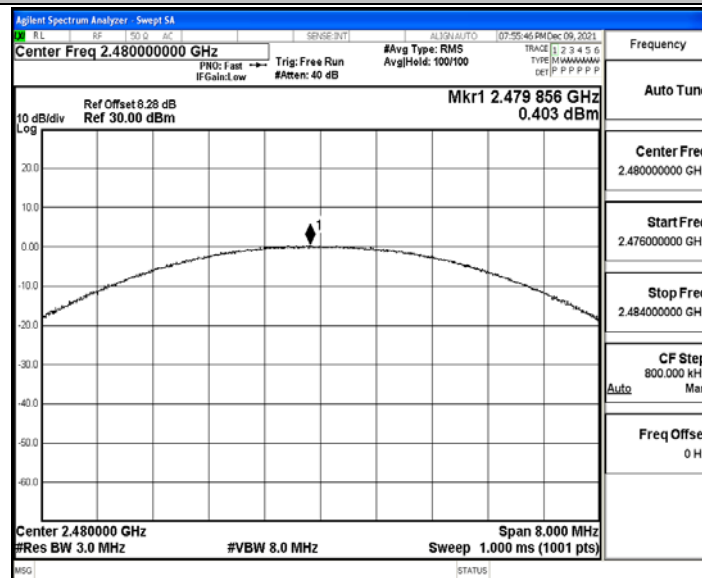




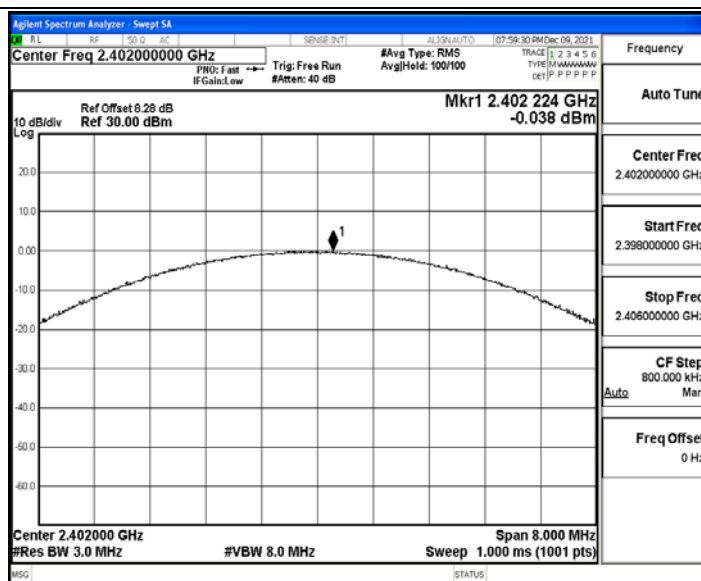
2DH5_Ant1_2441



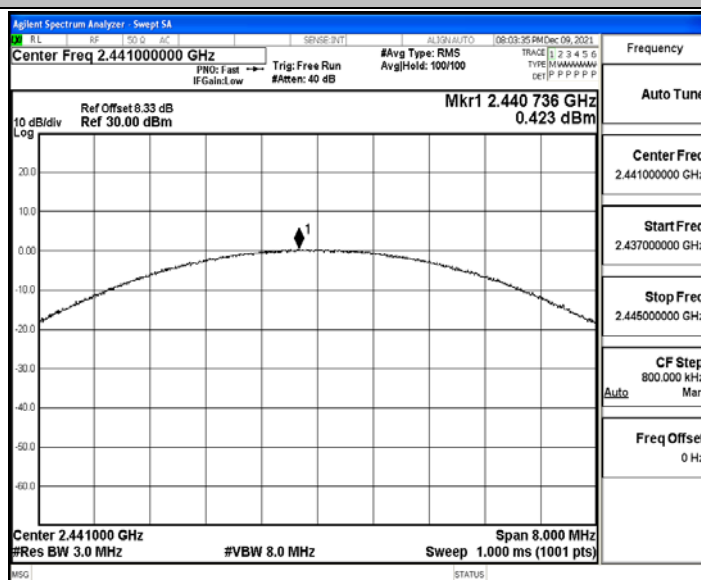
2DH5_Ant1_2480



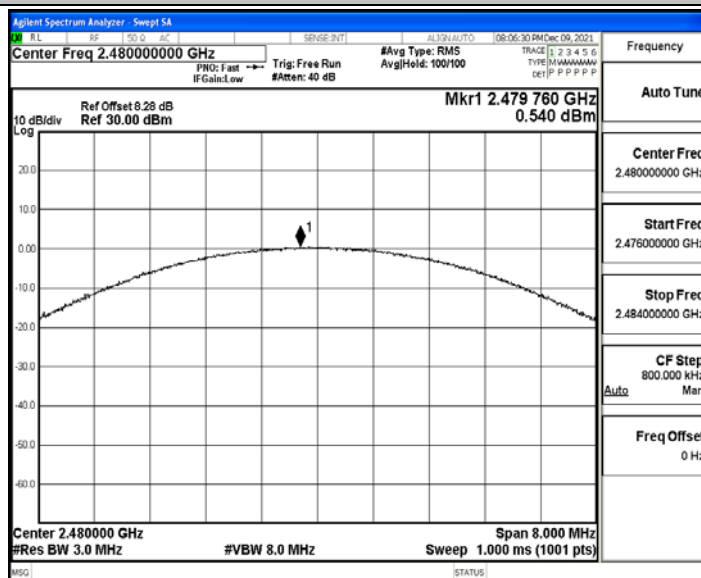
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



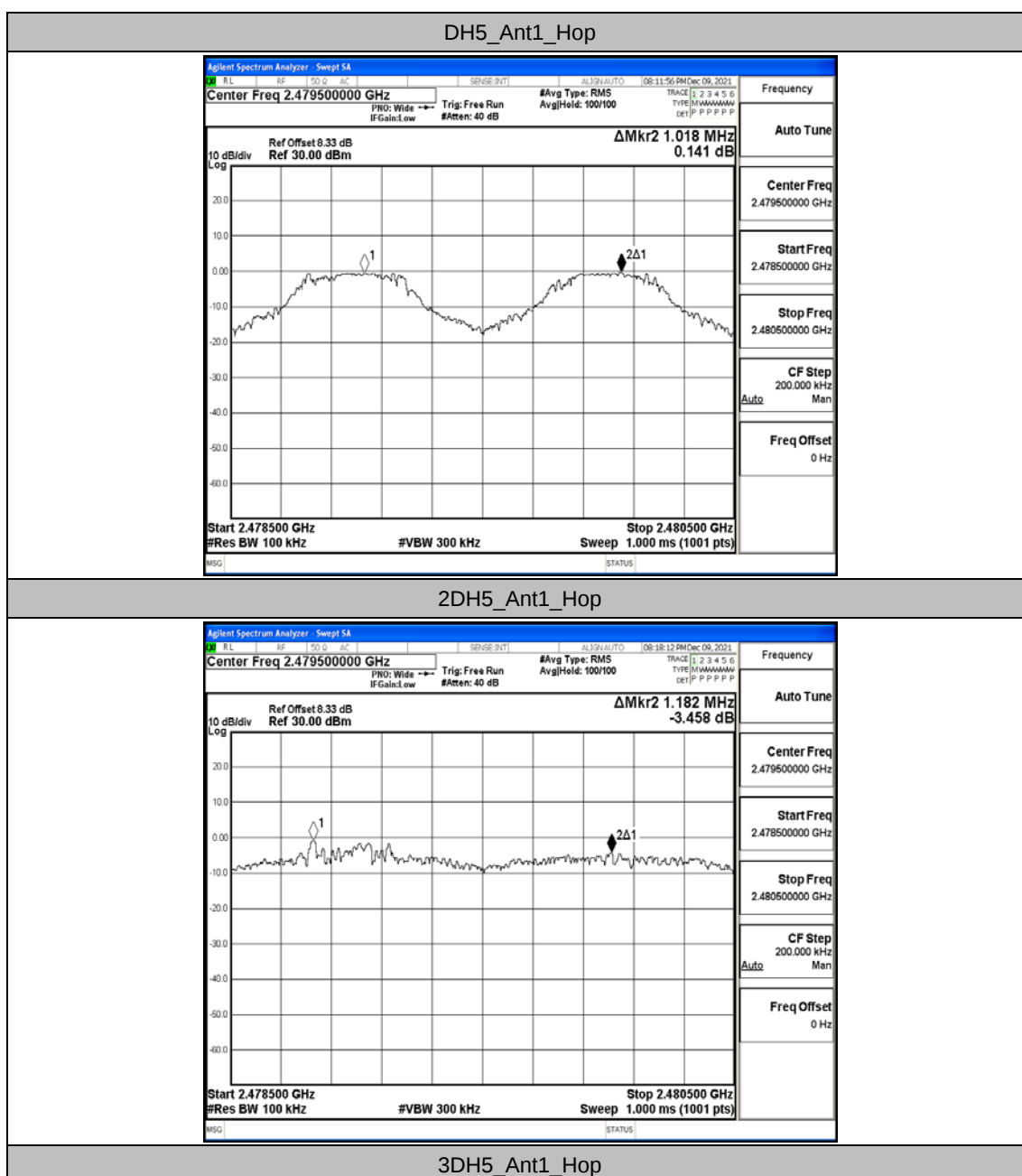


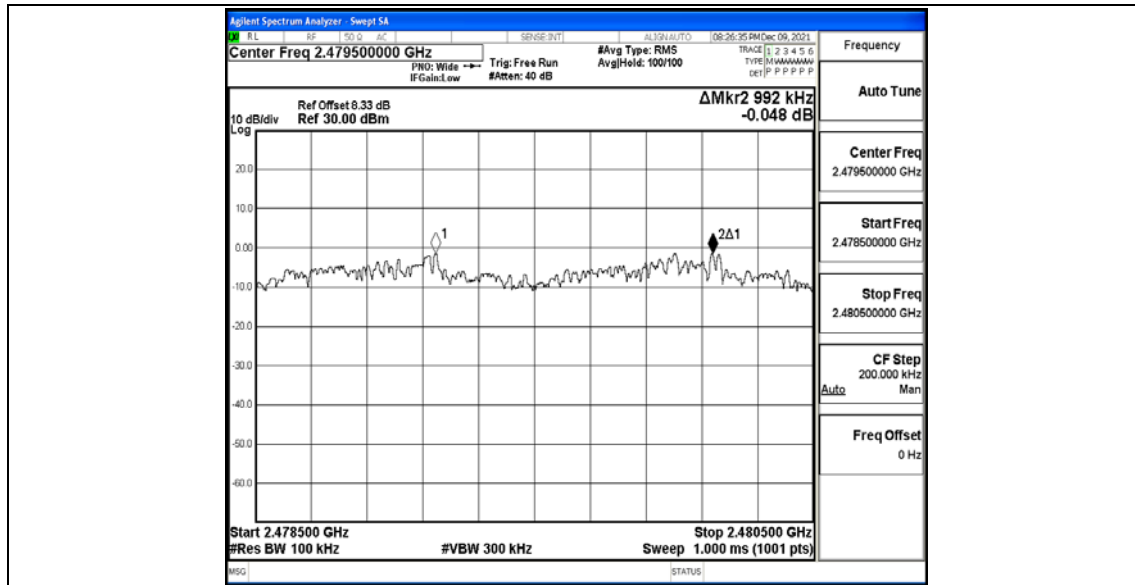
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.018	≥ 0.674	PASS
2DH5	Ant1	Hop	1.182	≥ 0.874	PASS
3DH5	Ant1	Hop	0.992	≥ 0.872	PASS

Test Graphs





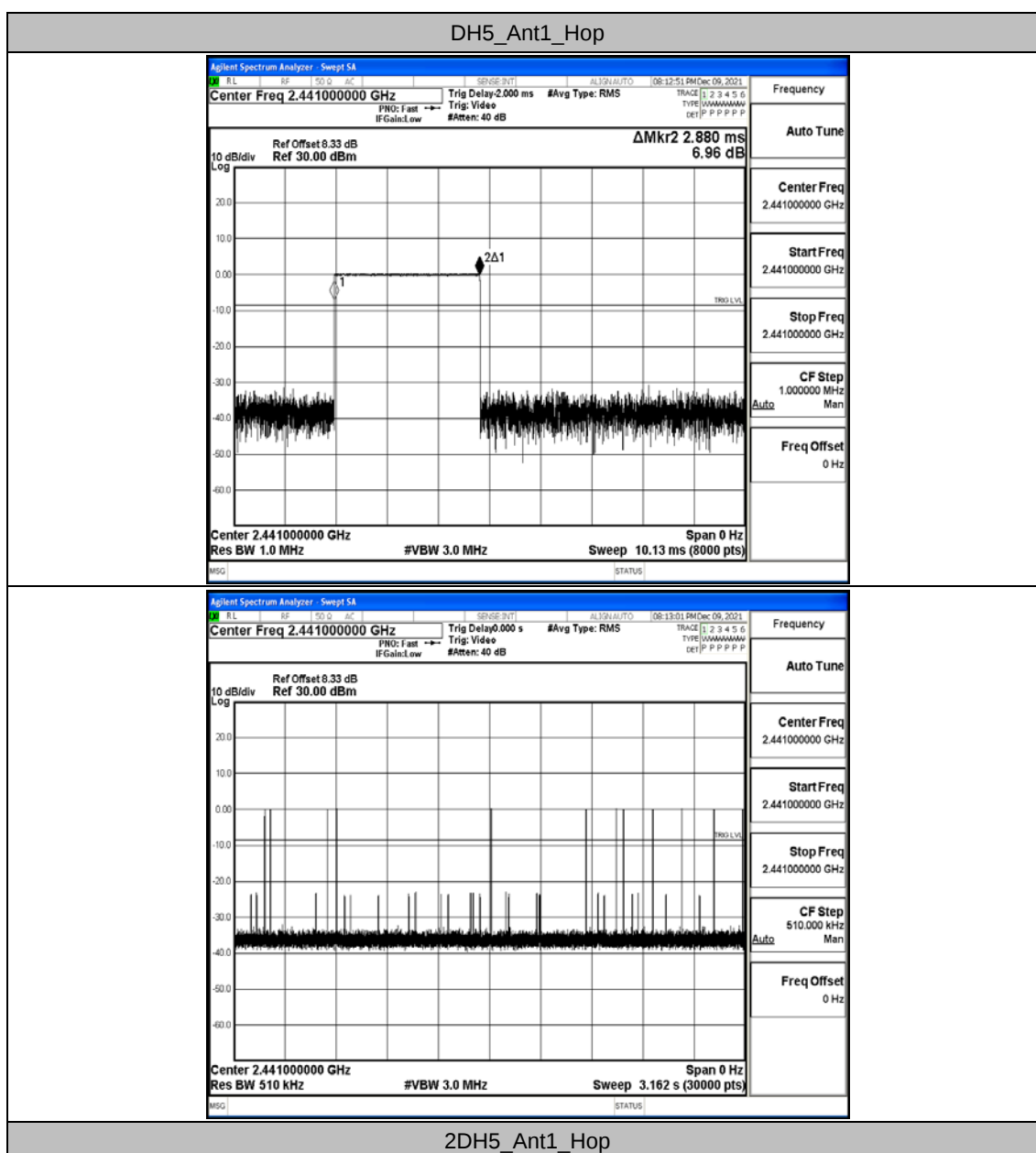


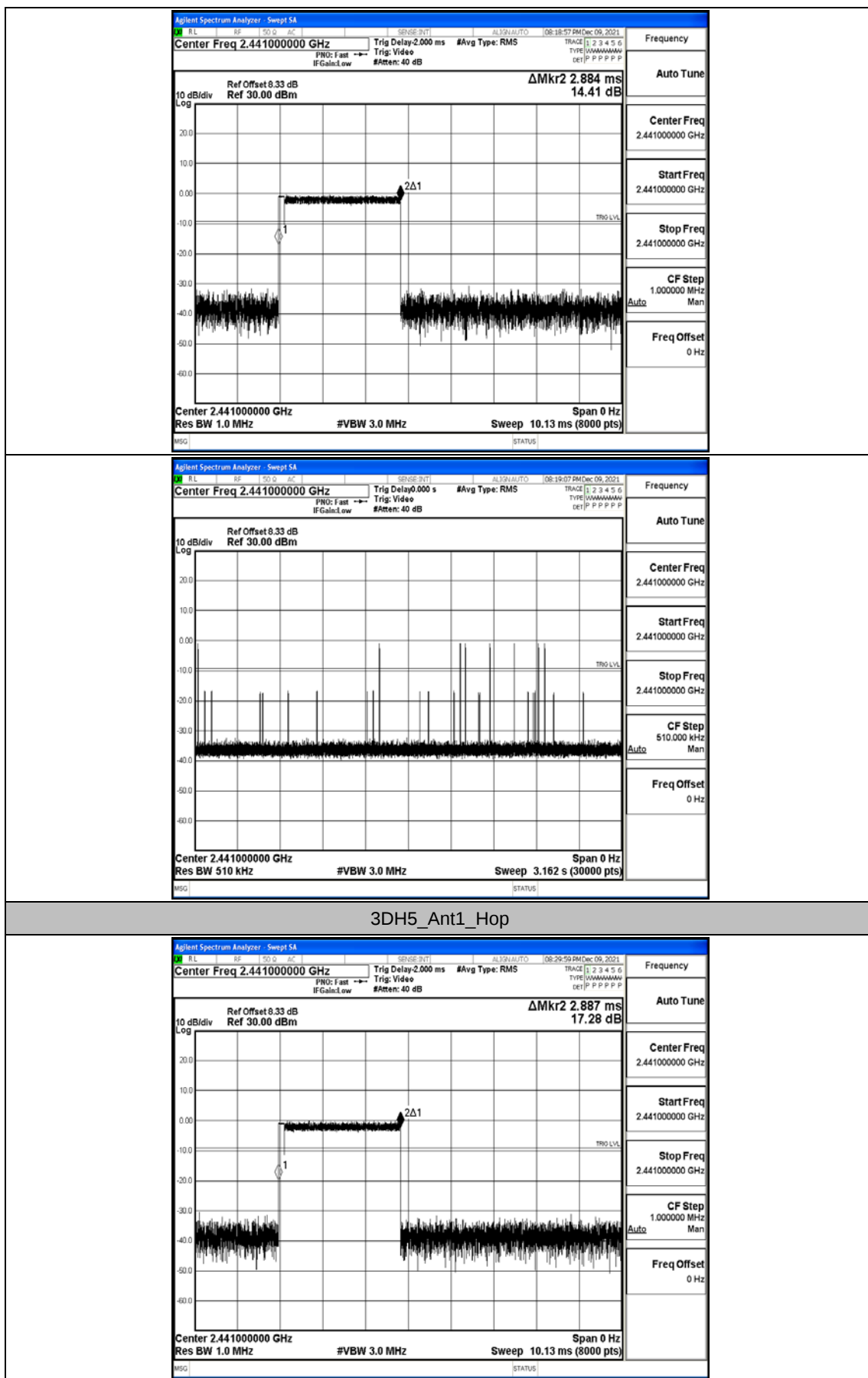
A.4 Time of occupancy

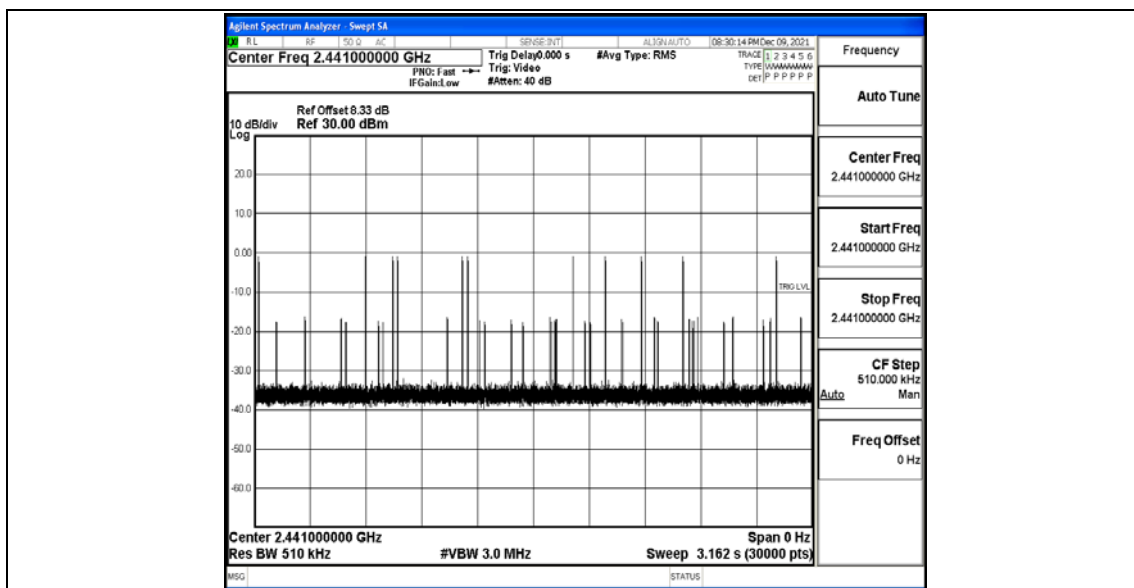
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	130	0.374	≤0.4	PASS
2DH5	Ant1	Hop	2.88	90	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.89	120	0.346	≤0.4	PASS

Test Graphs







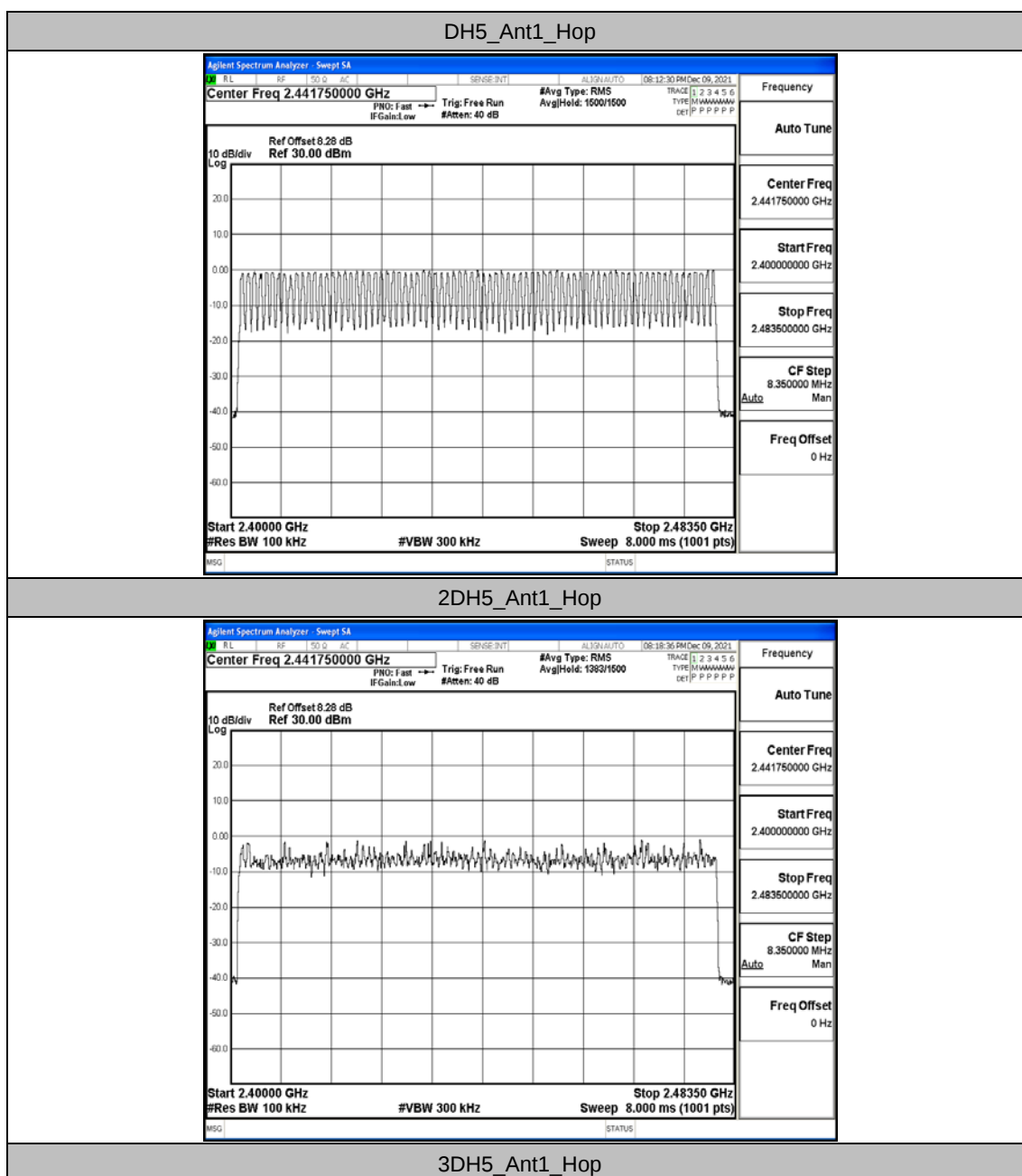


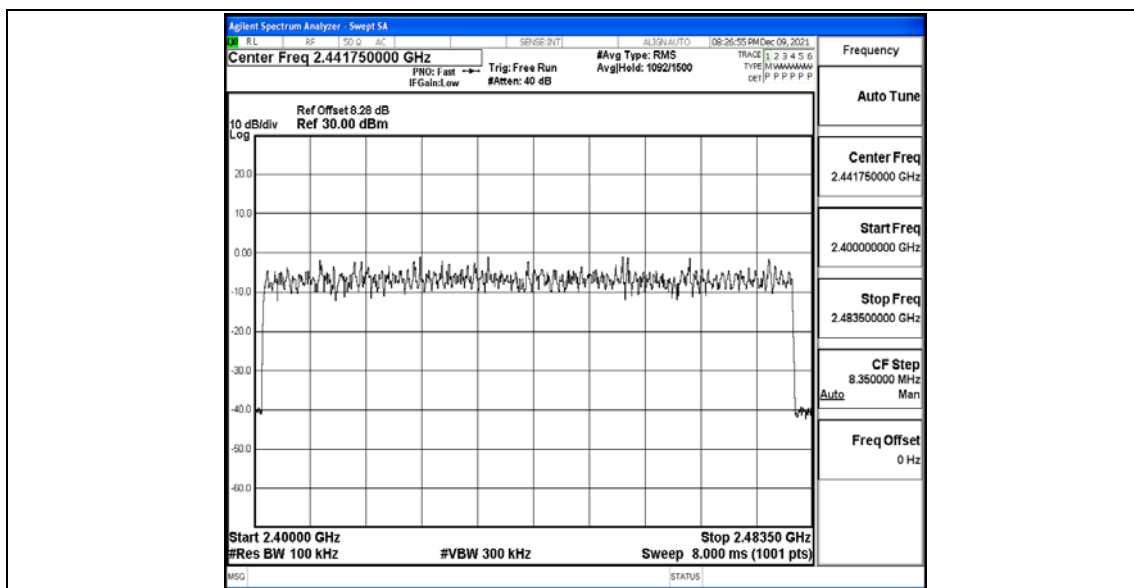
A.5 Number of hopping channels

Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs







A.6 Band edge measurements

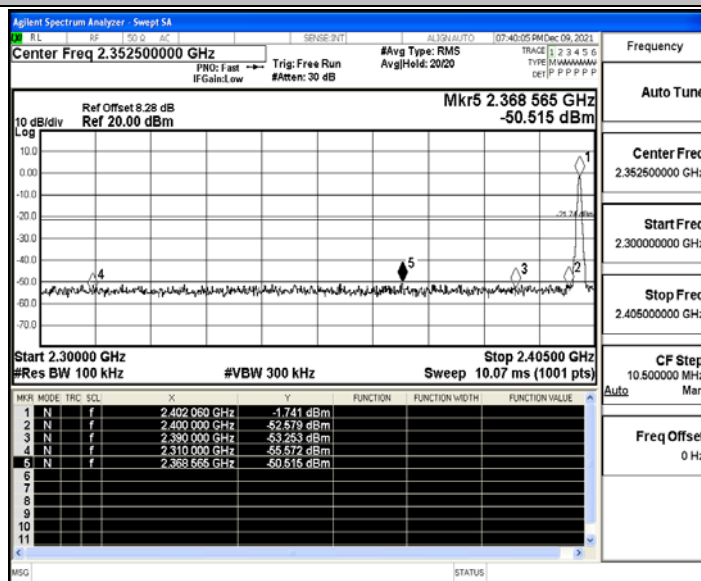
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.74	-50.52	≤ -21.74	PASS
		High	2480	-0.09	-49.34	≤ -20.09	PASS
		Low	Hop_2402	-1.21	-49.66	≤ -21.21	PASS
		High	Hop_2480	0.11	-48.17	≤ -19.89	PASS
2DH5	Ant1	Low	2402	-3.17	-50.9	≤ -23.17	PASS
		High	2480	-4.97	-48.78	≤ -24.97	PASS
		Low	Hop_2402	-3.39	-49.52	≤ -23.39	PASS
		High	Hop_2480	-2.06	-47.93	≤ -22.06	PASS
3DH5	Ant1	Low	2402	-1.49	-49.31	≤ -21.49	PASS
		High	2480	-4.36	-49.52	≤ -24.36	PASS
		Low	Hop_2402	-1.58	-49.51	≤ -21.58	PASS
		High	Hop_2480	-1.94	-47.94	≤ -21.94	PASS

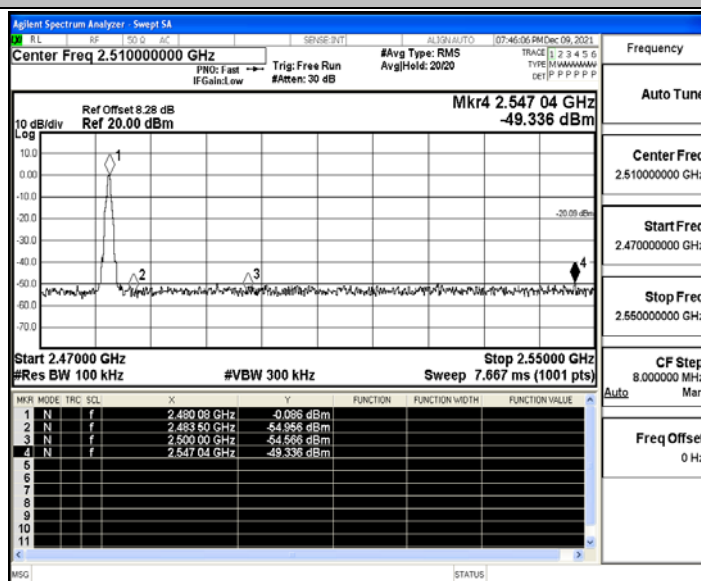


Test Graphs

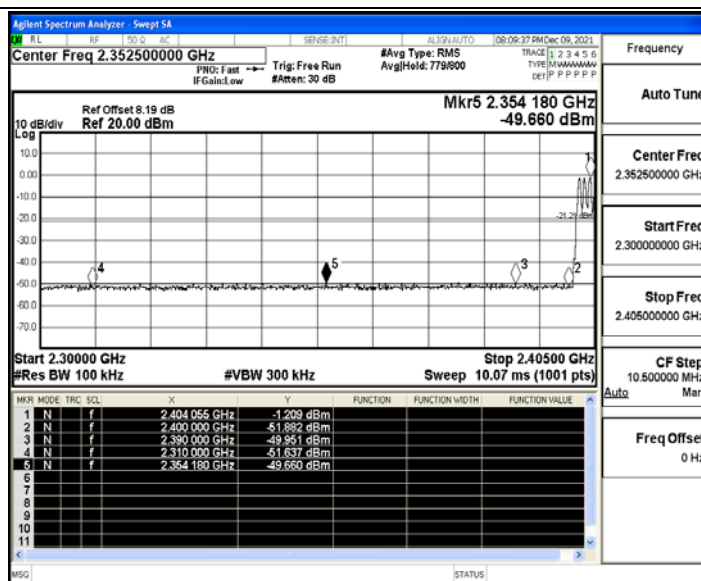
DH5_Ant1_Low_2402



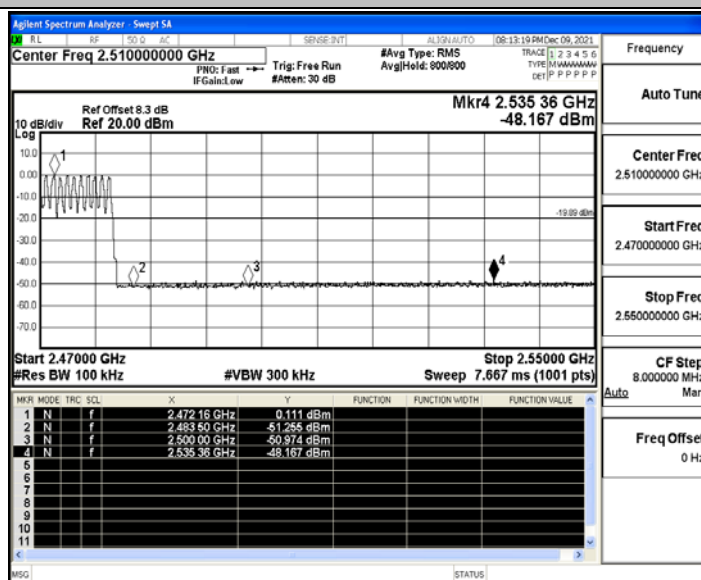
DH5_Ant1_High_2480



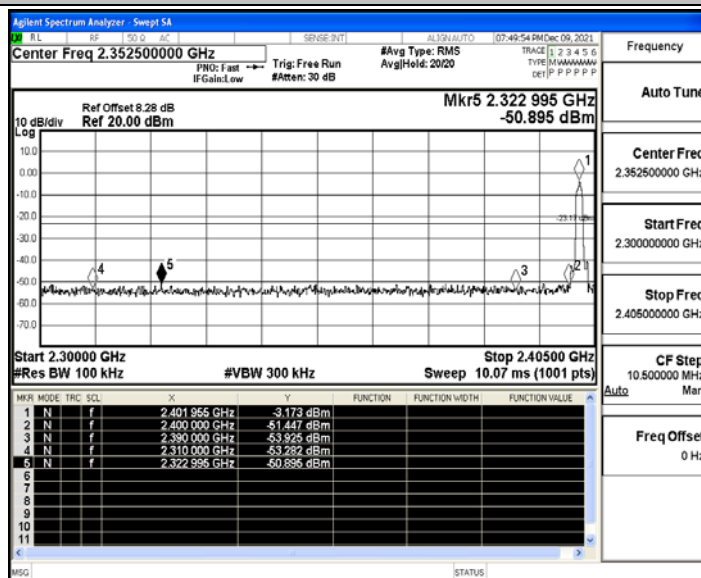
DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480

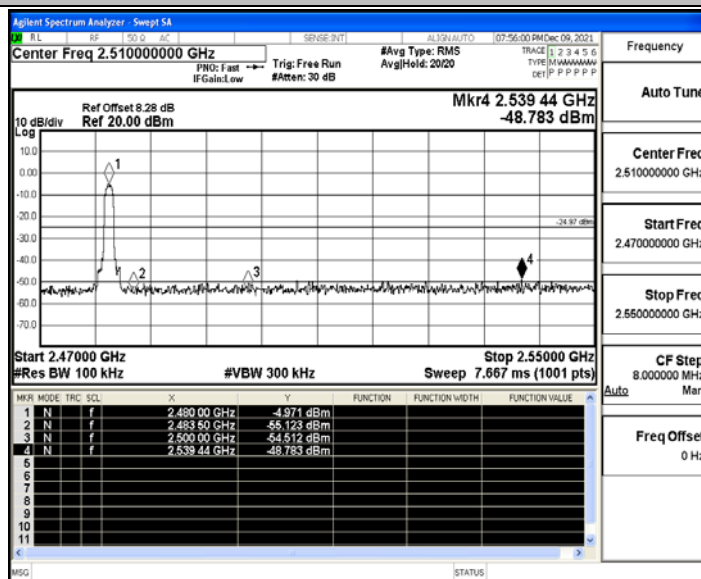


2DH5_Ant1_Low_2402

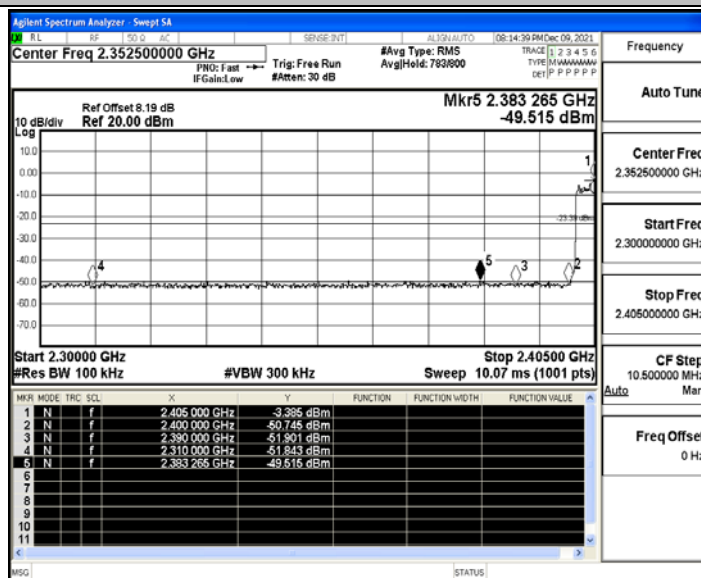




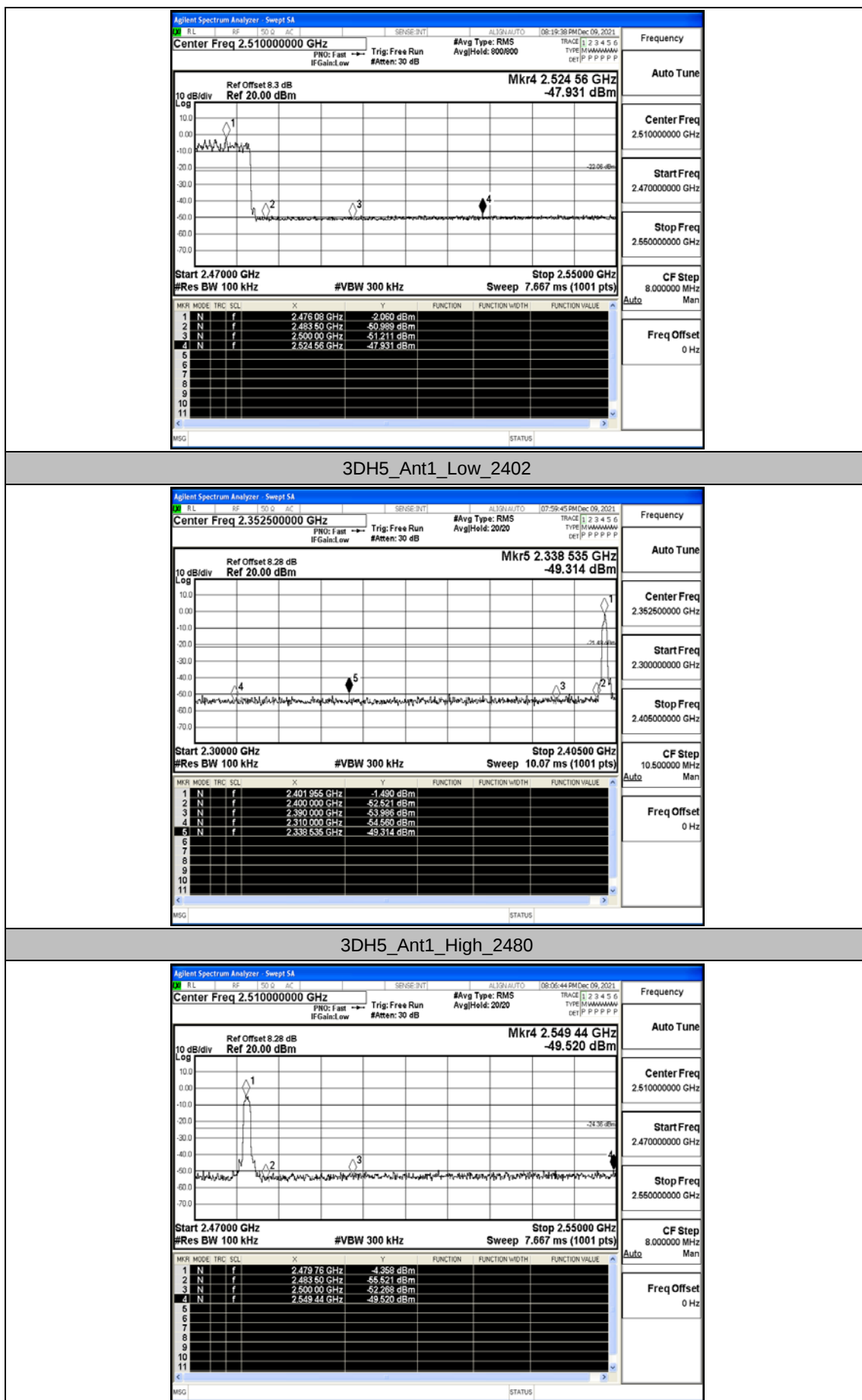
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

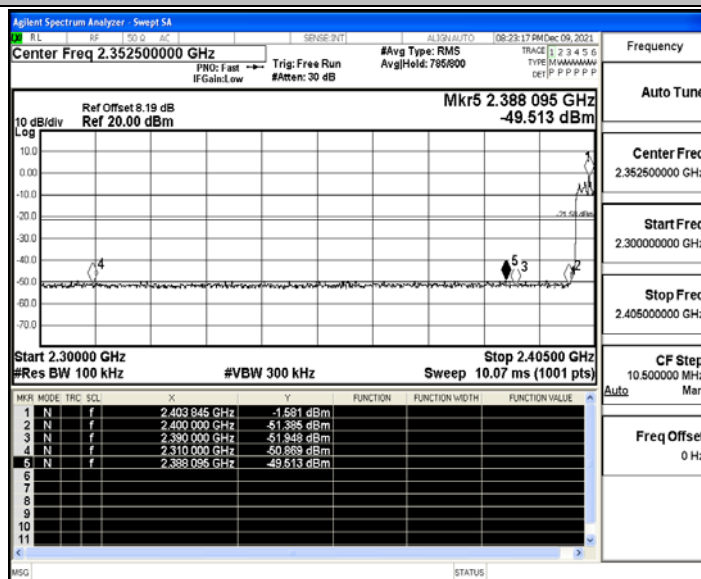


2DH5_Ant1_High_Hop_2480





3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

