

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.523	2402.477	---	---
		2441	0.954	2440.523	2441.477	---	---
		2480	0.957	2479.520	2480.477	---	---
2DH5	Ant1	2402	1.278	2401.358	2402.636	---	---
		2441	1.278	2440.358	2441.636	---	---
		2480	1.278	2479.358	2480.636	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

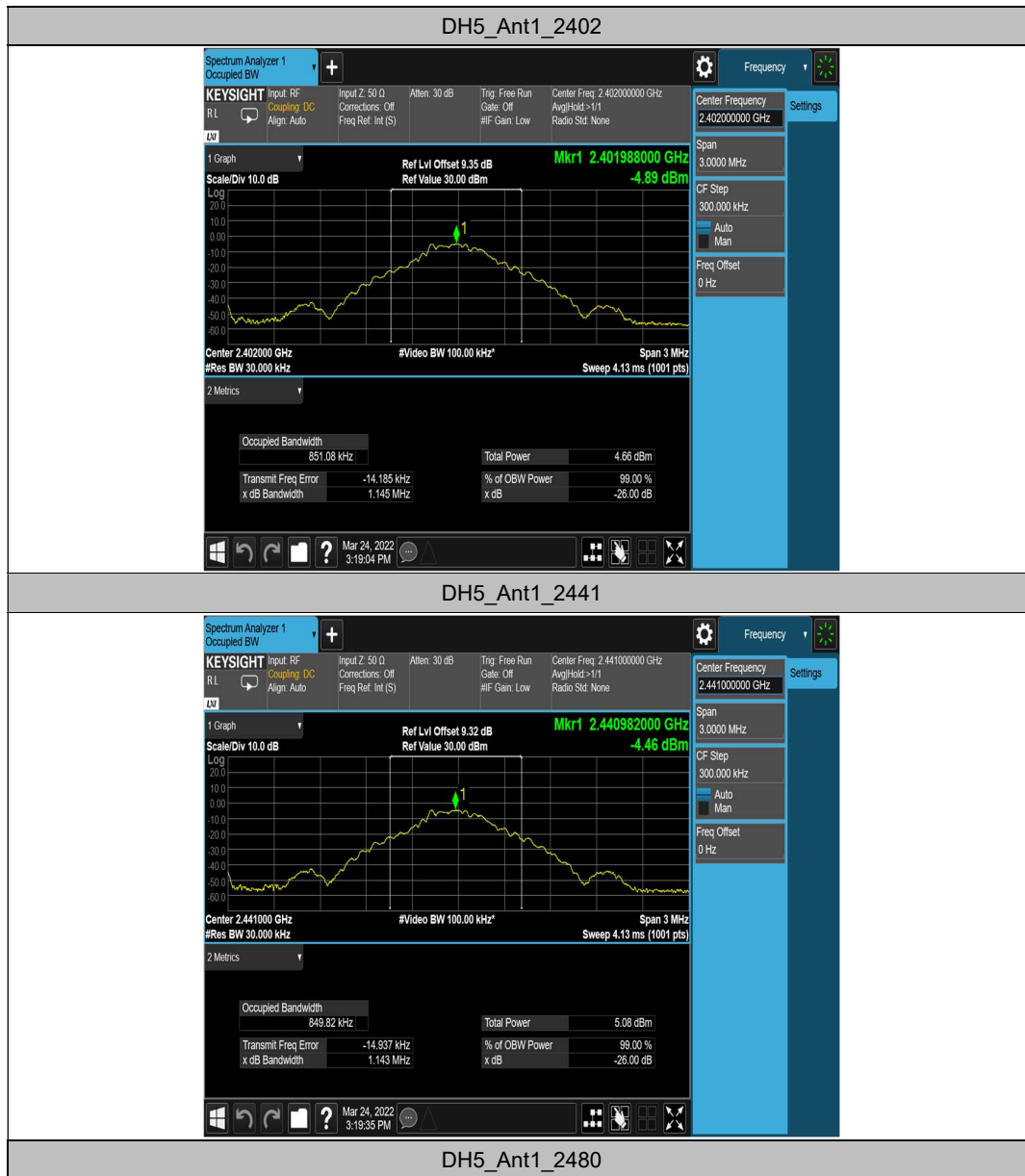


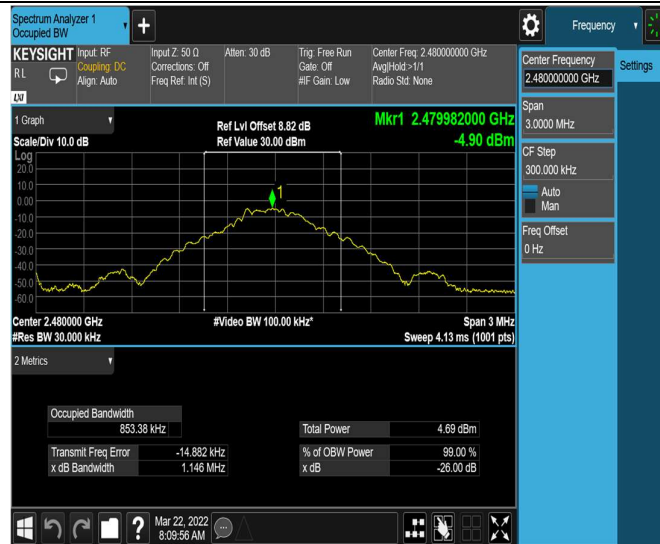
Appendix B: Occupied Channel Bandwidth

Test Result

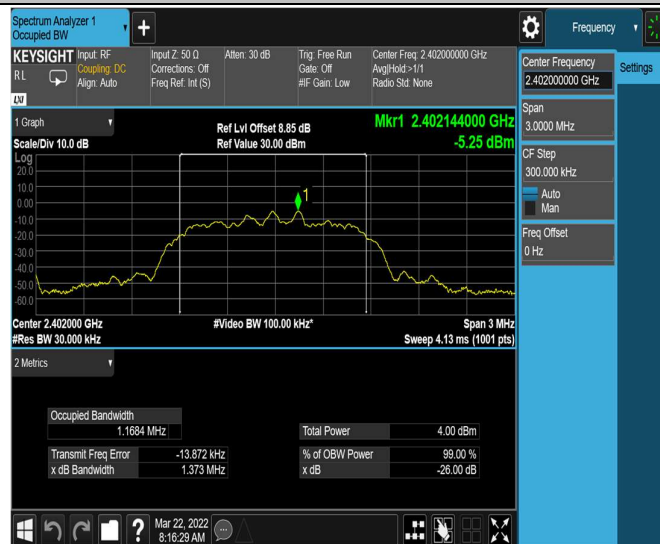
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85140	2401.560	2402.411	---	---
		2441	0.84970	2440.560	2441.410	---	---
		2480	0.85331	2479.558	2480.412	---	---
2DH5	Ant1	2402	1.1683	2401.402	2402.570	---	---
		2441	1.1682	2440.401	2441.569	---	---
		2480	1.1690	2479.401	2480.570	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-2.48	≤20.97	PASS
		2441	-2.17	≤20.97	PASS
		2480	-2.09	≤20.97	PASS
2DH5	Ant1	2402	-1.59	≤20.97	PASS
		2441	-1.27	≤20.97	PASS
		2480	-1.28	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.005	≥ 0.957	PASS
2DH5	Ant1	Hop	1.015	≥ 0.852	PASS

Test Graphs



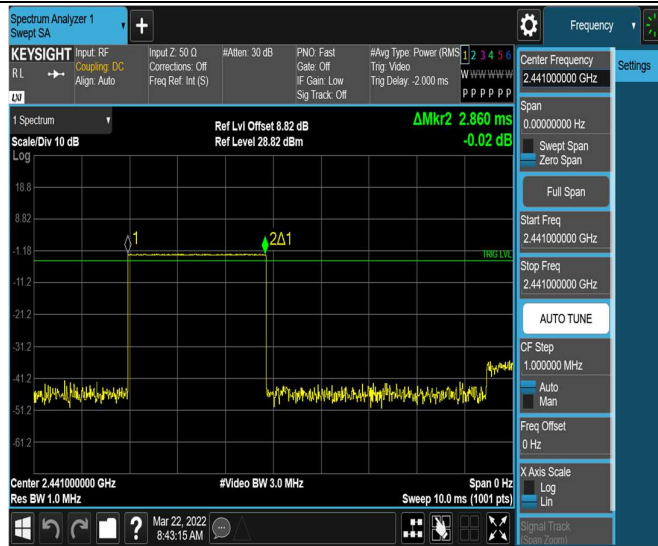
Appendix E: Time of occupancy

Test Result

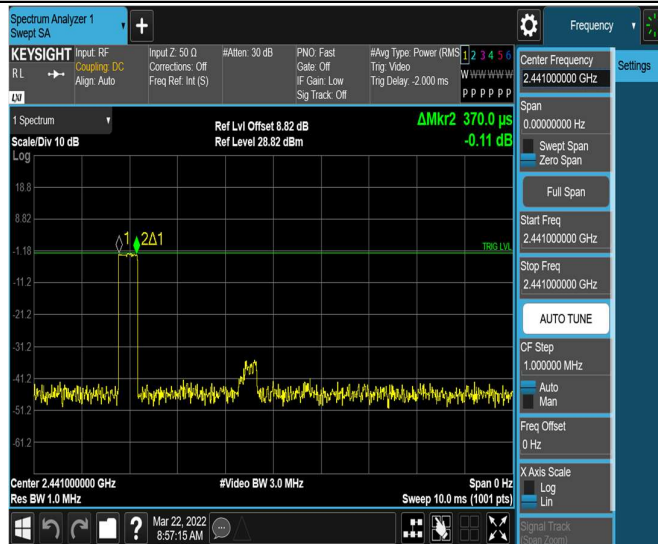
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.36	320	0.115	≤0.4	PASS
DH3	Ant1	Hop	1.61	160	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.86	106.67	0.305	≤0.4	PASS
2DH1	Ant1	Hop	0.37	320	0.118	≤0.4	PASS
2DH3	Ant1	Hop	1.62	160	0.259	≤0.4	PASS
2DH5	Ant1	Hop	2.87	106.67	0.306	≤0.4	PASS

Test Graphs





2DH1_Ant1_Hop



2DH3_Ant1_Hop



The screenshot displays the Keysight Spectrum Analyzer 1 interface. The main display shows a spectrum plot with a yellow trace. A peak is labeled '241' at approximately 2.441 GHz. The plot has a logarithmic scale (Log) and a resolution bandwidth (Res BW) of 1.0 MHz. The center frequency is 2.441000000 GHz, and the span is 0 Hz. The plot shows a signal level of 8.82 dBm. The interface includes various control panels for input, settings, and measurement parameters.

Keysight Spectrum Analyzer 1

Input: RF
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
#Att: 30 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Tng Video: 1 2 3 4 5 6
Tng Delay: -2.000 ms
WWW: WWW
PPP: PPP

Center Frequency: 2.441000000 GHz
Span: 0.00000000 Hz
Sweep Span: Zero Span
Full Span
Start Freq: 2.441000000 GHz
Stop Freq: 2.441000000 GHz
AUTO TUNE
CF Step: 1.0000000 MHz
Auto
Main
Freq Offset: 0 Hz
XAxis Scale: Log
Lin
Signal Track: Span Zoom

1 Spectrum
Scale/Div: 10 dB
Log
Ref Lvl Offset: 8.82 dB
Ref Level: 28.82 dBm
 Δ Mkr2: 2.870 ms
5.77 dB
241
TNG LVL
Center: 2.441000000 GHz
Res BW: 1.0 MHz
#Video BW: 3.0 MHz
Span: 0 Hz
Sweep: 10.0 ms (1001 pts)

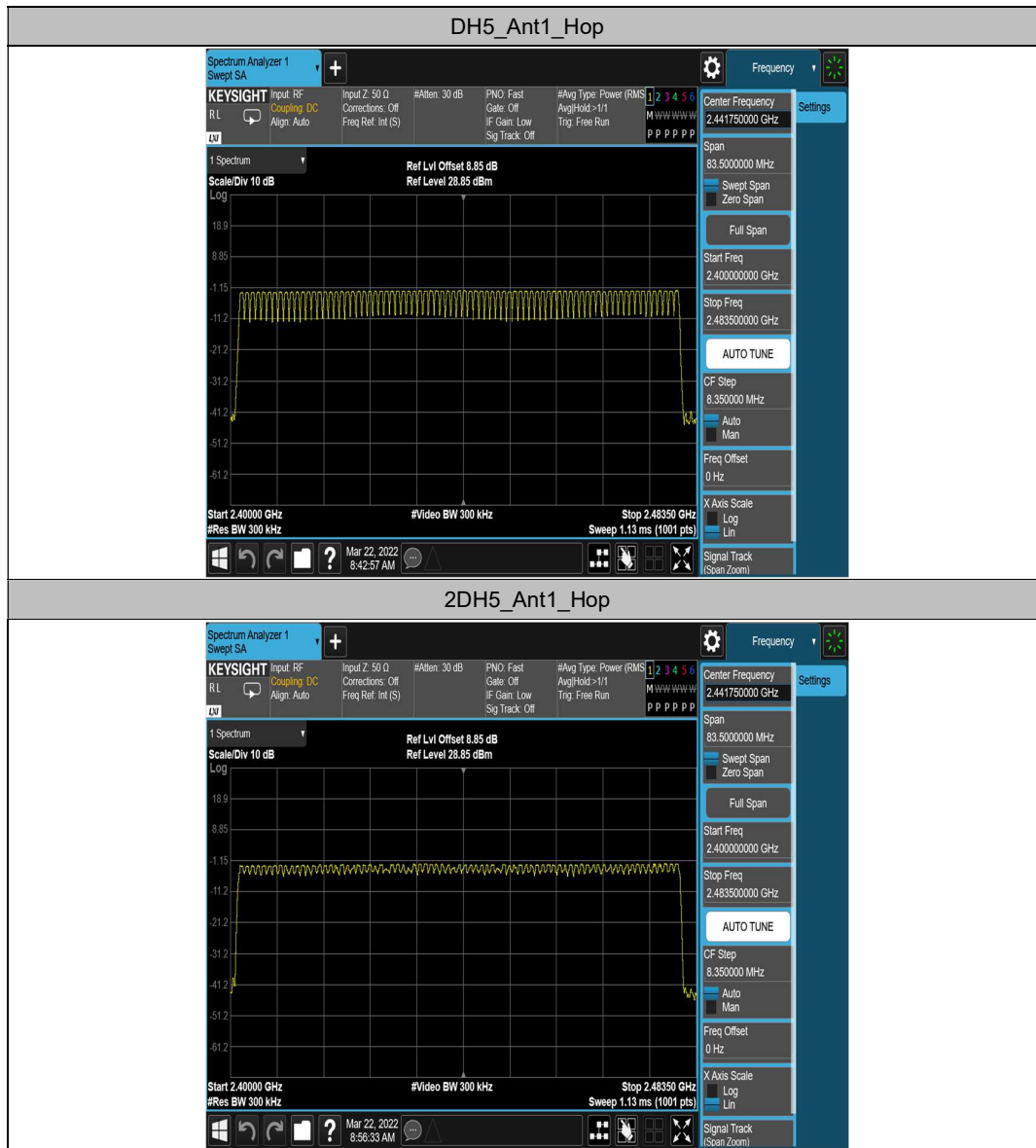
Windows: Windows 10 taskbar icons (Start, Back, Forward, Home, Search, Task View, File Explorer, Edge, Settings, etc.)
Date/Time: Mar 22, 2022 6:56:47 AM
System Tray: Network, Volume, Battery, etc.

Appendix F: Number of hopping channels

Test Result

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

Test Graphs

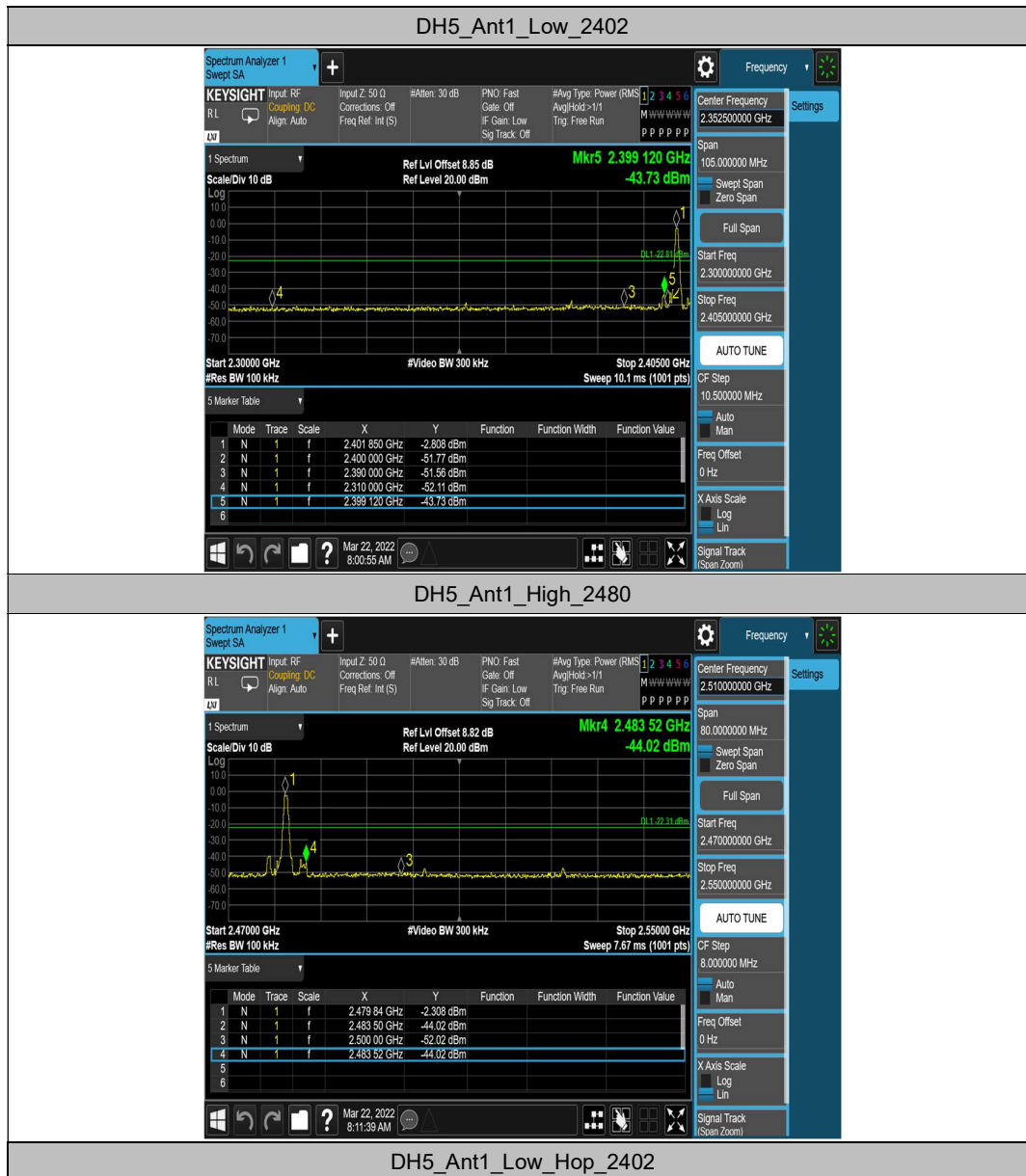


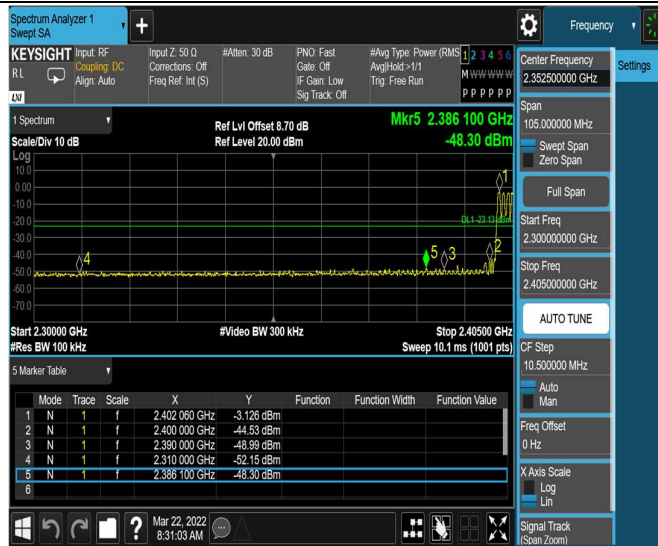
Appendix G: Band edge measurements

Test Result

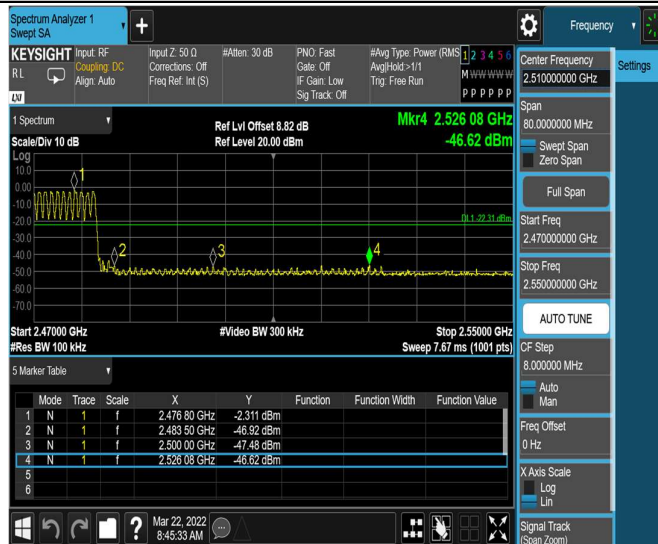
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.81	-44.07	≤ -22.81	PASS
		High	2480	-2.31	-44.02	≤ -22.31	PASS
		Low	Hop_2402	-3.13	-48.3	≤ -23.13	PASS
		High	Hop_2480	-2.31	-46.62	≤ -22.31	PASS
2DH5	Ant1	Low	2402	-2.81	-44.59	≤ -22.81	PASS
		High	2480	-2.28	-46.04	≤ -22.28	PASS
		Low	Hop_2402	-3.64	-49.16	≤ -23.64	PASS
		High	Hop_2480	-2.44	-47.13	≤ -22.44	PASS

Test Graphs

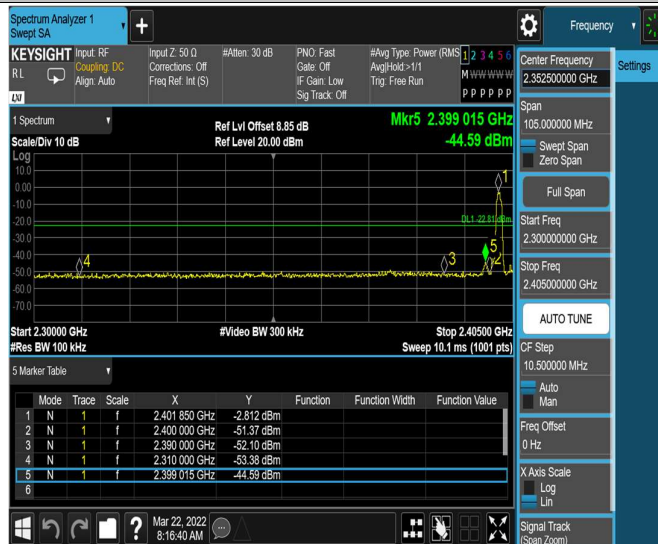




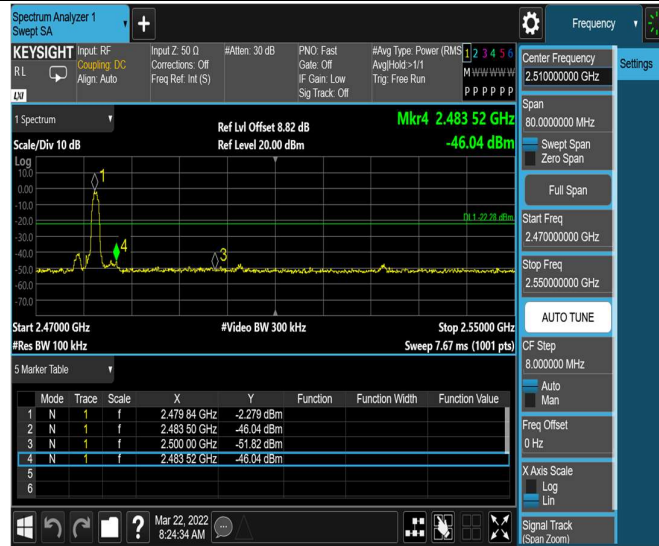
DH5_Ant1_High_Hop_2480



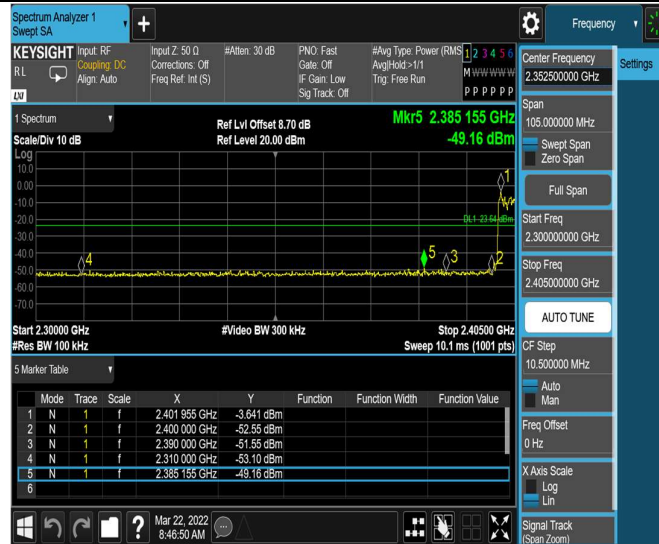
2DH5_Ant1_Low_2402



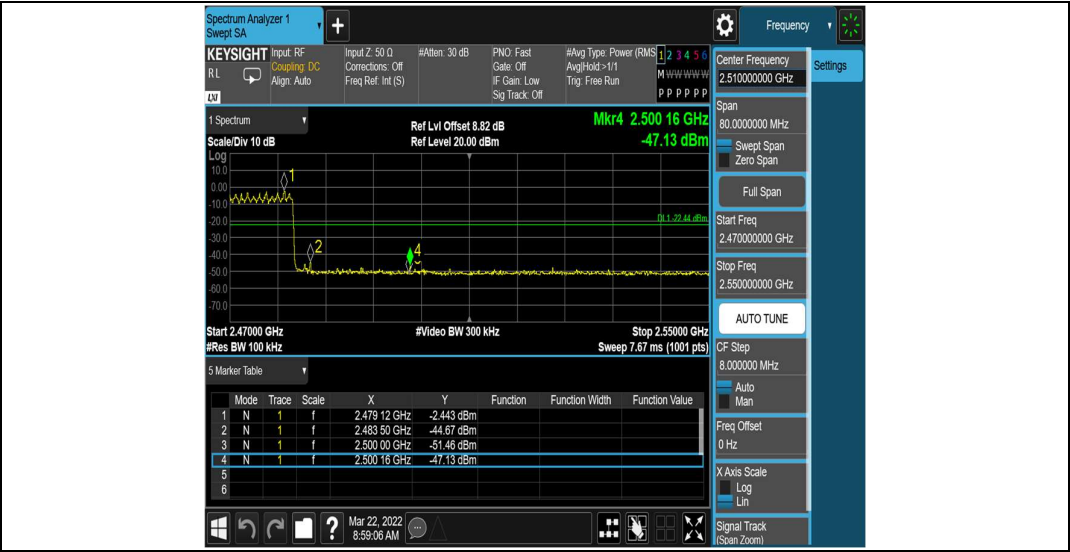
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

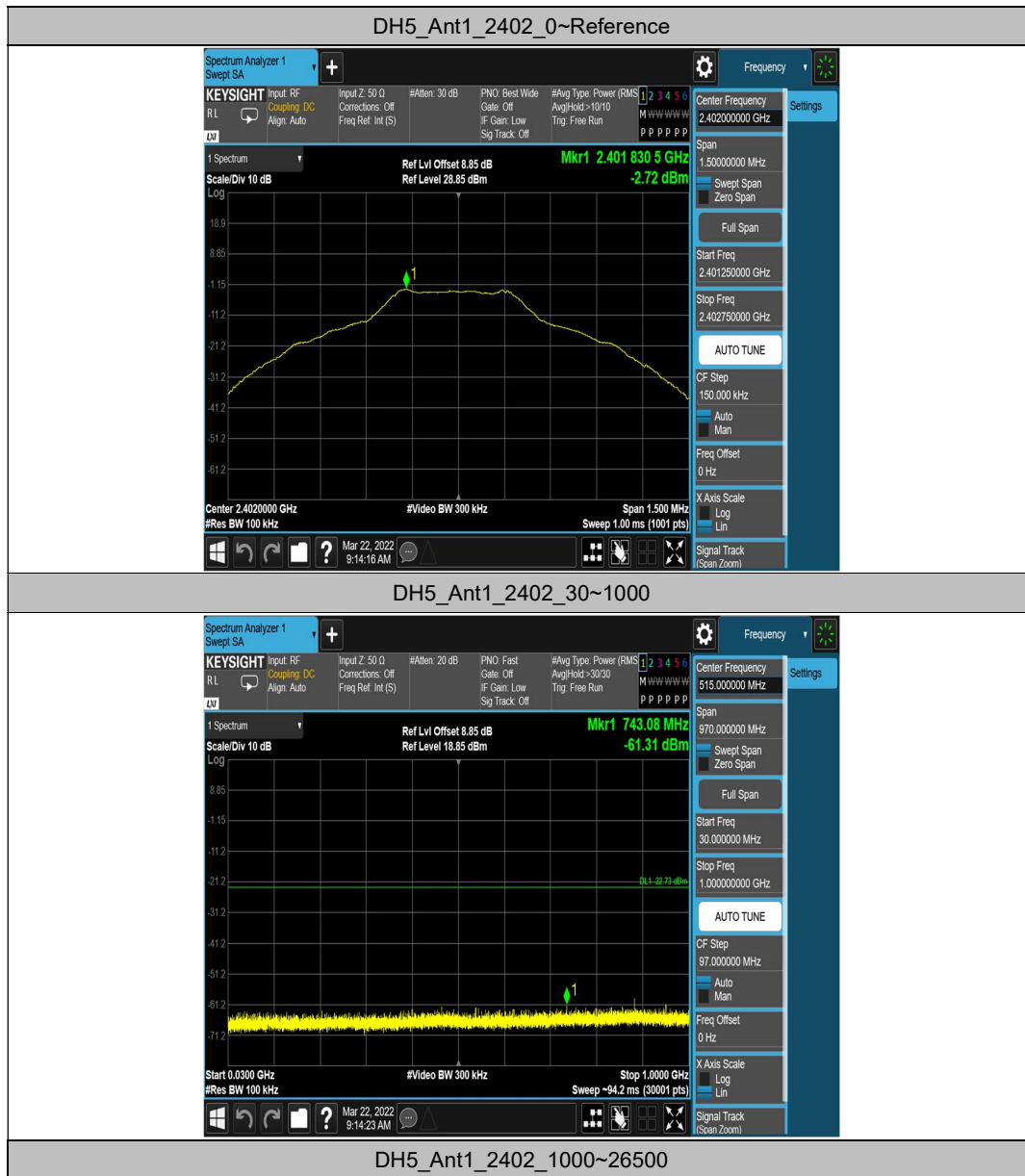


Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-2.73	-2.73	---	PASS
			30~1000	-2.73	-61.31	≤-22.73	PASS
			1000~26500	-2.73	-49.48	≤-22.73	PASS
		2441	Reference	-2.27	-2.27	---	PASS
			30~1000	-2.27	-59.93	≤-22.27	PASS
			1000~26500	-2.27	-45.88	≤-22.27	PASS
		2480	Reference	-2.54	-2.54	---	PASS
			30~1000	-2.54	-60.36	≤-22.54	PASS
			1000~26500	-2.54	-47.76	≤-22.54	PASS
2DH5	Ant1	2402	Reference	-2.86	-2.86	---	PASS
			30~1000	-2.86	-49.6	≤-22.86	PASS
			1000~26500	-2.86	-53.71	≤-22.86	PASS
		2441	Reference	-2.36	-2.36	---	PASS
			30~1000	-2.36	-61.05	≤-22.36	PASS
			1000~26500	-2.36	-49.31	≤-22.36	PASS
		2480	Reference	-2.34	-2.34	---	PASS
			30~1000	-2.34	-61.2	≤-22.34	PASS
			1000~26500	-2.34	-48.79	≤-22.34	PASS

Test Graphs





DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

