

Appendix RF Test Data for BT

FCC ID : 2AVRVDRPTV750SM
Company : DP AUDIO VIDEO LLC
EUT : Smart TV
Model Number : DRPTV750SM
Report No. : CTA25081402402
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.547	2402.501	---	---
		2441	0.954	2440.547	2441.501	---	---
		2480	0.939	2479.553	2480.492	---	---
2DH5	Ant1	2402	1.275	2401.382	2402.657	---	---
		2441	1.311	2440.352	2441.663	---	---
		2480	1.317	2479.349	2480.666	---	---
3DH5	Ant1	2402	1.299	2401.364	2402.663	---	---
		2441	1.299	2440.364	2441.663	---	---
		2480	1.293	2479.370	2480.663	---	---

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.40200000 GHz

Ref Offset 1.1 dB
Ref 11.10 dBm

ΔMkr3 954 kHz
0.026 dB

Span 3.000 MHz
#Res BW 30 kHz
#VBW 100 kHz
Sweep (#Swp) 3.200 ms (1001 pts)

MFR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.401547 GHz	-21.612 dBm			
2	N	1	f	2.402027 GHz	-1.615 dBm			
3	Δ1	1	f (Δ)	954 kHz (Δ)	0.026 dB			

Frequency

Auto Tune

Center Freq
2.40200000 GHz

Start Freq
2.400500000 GHz

Stop Freq
2.403500000 GHz

CF Step
300.000 kHz
Man

Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Ref Offset 1.1 dB
Ref 11.10 dBm

ΔMkr3 954 kHz
0.307 dB

Span 3.000 MHz
#Res BW 30 kHz
#VBW 100 kHz
Sweep (#Swp) 3.200 ms (1001 pts)

MFR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.440547 GHz	-22.056 dBm			
2	N	1	f	2.441027 GHz	-2.077 dBm			
3	Δ1	1	f (Δ)	954 kHz (Δ)	0.307 dB			

Frequency

Auto Tune

Center Freq
2.441000000 GHz

Start Freq
2.439500000 GHz

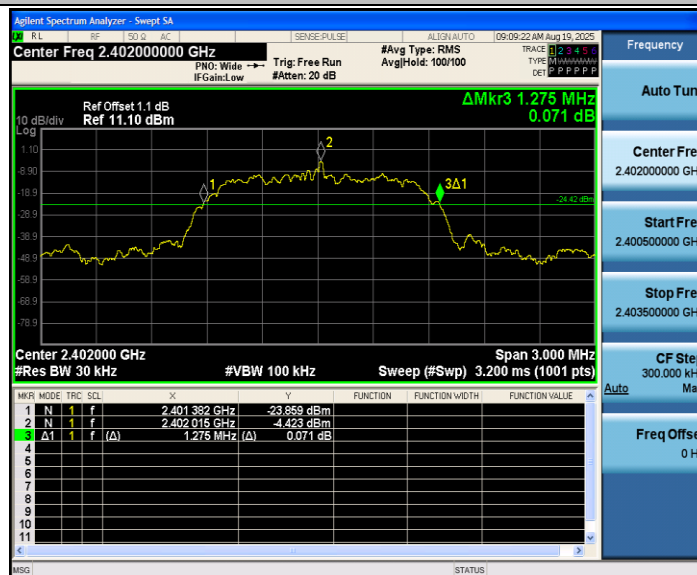
Stop Freq
2.442500000 GHz

CF Step
300.000 kHz
Man

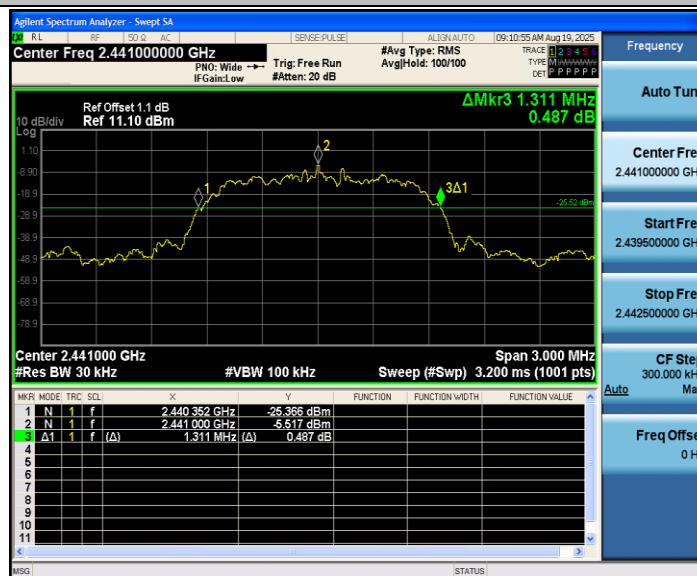
Freq Offset
0 Hz



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



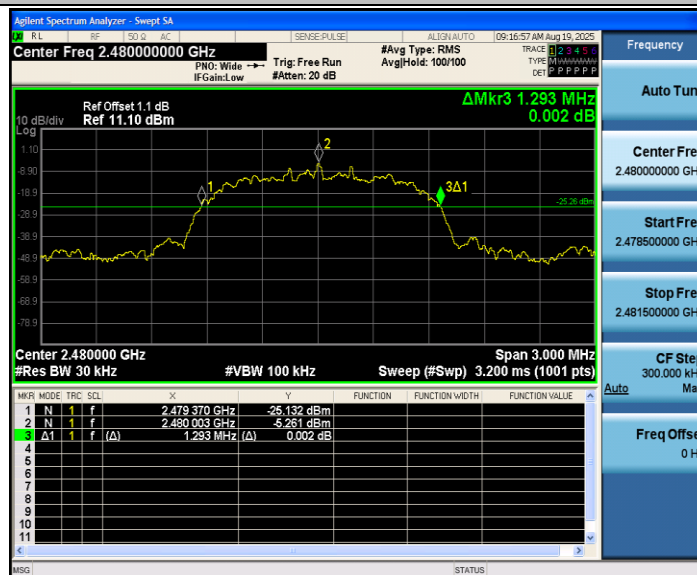
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

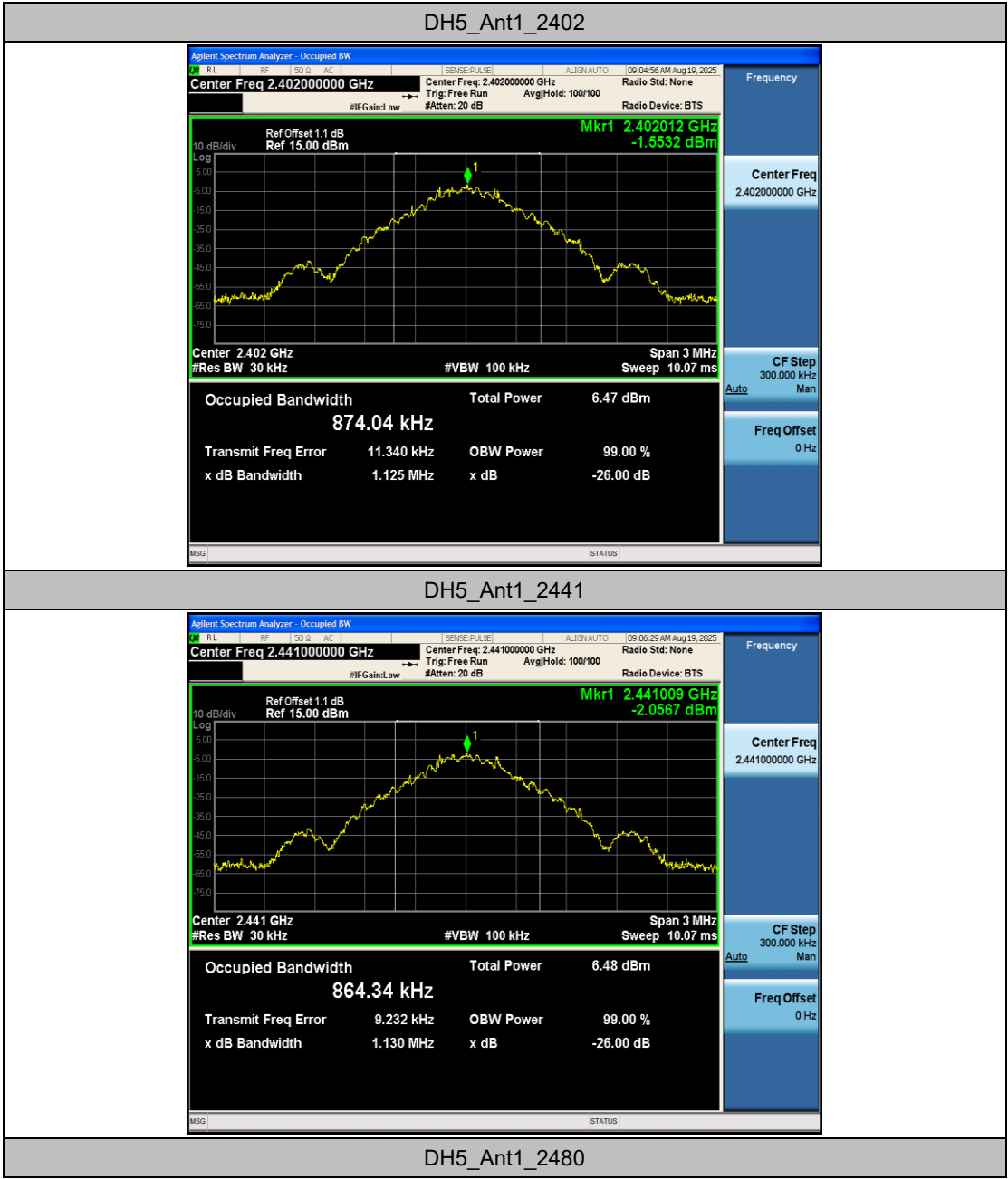


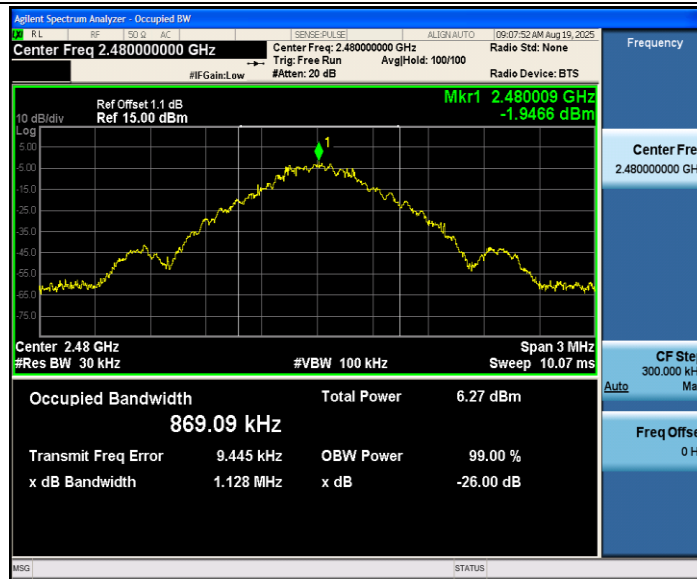
Appendix B: Occupied Channel Bandwidth

Test Result

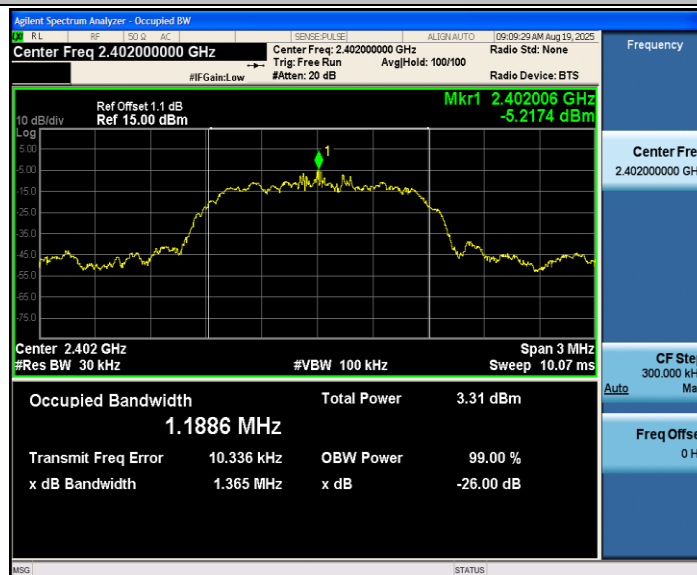
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87404	2401.5743	2402.4484	---	---
		2441	0.86434	2440.5771	2441.4414	---	---
		2480	0.86909	2479.5749	2480.4440	---	---
2DH5	Ant1	2402	1.1886	2401.4160	2402.6046	---	---
		2441	1.1864	2440.4149	2441.6013	---	---
		2480	1.1882	2479.4168	2480.6050	---	---
3DH5	Ant1	2402	1.1812	2401.4190	2402.6002	---	---
		2441	1.1821	2440.4191	2441.6012	---	---
		2480	1.1872	2479.4170	2480.6042	---	---

Test Graphs

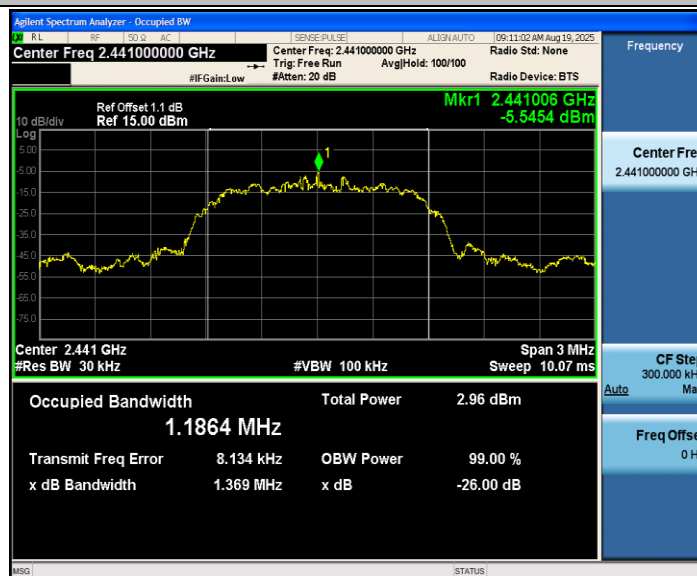




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



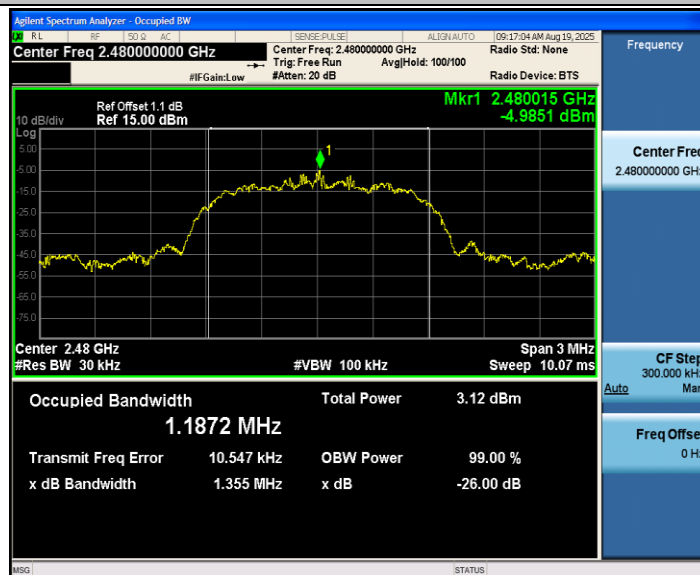
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.57	≤20.97	PASS
		2441	0.43	≤20.97	PASS
		2480	0.38	≤20.97	PASS
2DH5	Ant1	2402	-0.18	≤20.97	PASS
		2441	-0.34	≤20.97	PASS
		2480	-0.36	≤20.97	PASS
3DH5	Ant1	2402	0.19	≤20.97	PASS
		2441	0.03	≤20.97	PASS
		2480	-0.01	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.024	≥ 0.954	PASS
2DH5	Ant1	Hop	1	≥ 0.878	PASS
3DH5	Ant1	Hop	1.028	≥ 0.866	PASS

Test Graphs





Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	312	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.650	156	0.257	≤0.4	PASS
DH5	Ant1	Hop	2.900	114	0.331	≤0.4	PASS
2DH1	Ant1	Hop	0.400	319	0.128	≤0.4	PASS
2DH3	Ant1	Hop	1.650	153	0.252	≤0.4	PASS
2DH5	Ant1	Hop	2.890	116	0.335	≤0.4	PASS
3DH1	Ant1	Hop	0.400	318	0.127	≤0.4	PASS
3DH3	Ant1	Hop	1.650	160	0.264	≤0.4	PASS
3DH5	Ant1	Hop	2.900	99	0.287	≤0.4	PASS

DH1_Ant1_Hop

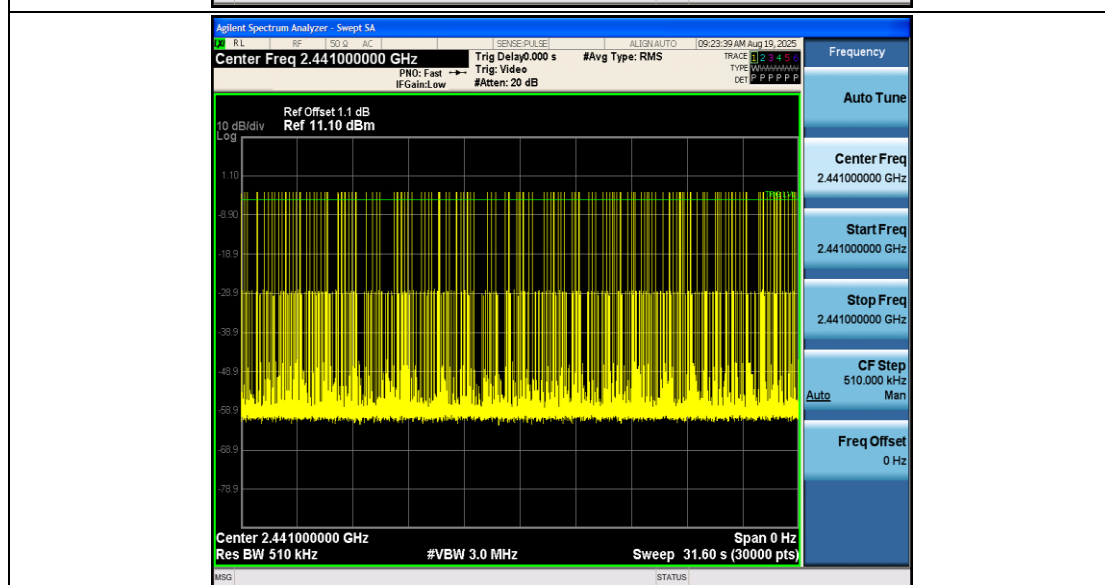
The figure displays two screenshots of an Agilent Spectrum Analyzer interface, showing signal analysis results for two different antennas, DH1_Ant1_Hop and DH3_Ant1_Hop.

Top Screenshot (DH1_Ant1_Hop):

- Center Freq:** 2.441000000 GHz
- Ref Offset:** 1.1 dB
- Ref:** 11.10 dBm
- Trig Delay:** 2.000 ms
- #Avg Type:** RMS
- Trig:** Video
- IF Gain:** Low
- #Atten:** 20 dB
- Trace:** 1 (2.441 GHz)
- Type:** W (Waveform)
- Det:** P (Peak)
- Auto Tune:** On
- Center Freq:** 2.441000000 GHz
- Start Freq:** 2.441000000 GHz
- Stop Freq:** 2.441000000 GHz
- CF Step:** 1.000000 MHz
- Freq Offset:** 0 Hz
- Center:** 2.441000000 GHz
- Res BW:** 1.0 MHz
- #VBW:** 3.0 MHz
- Sweep:** 10.00 ms (1001 pts)

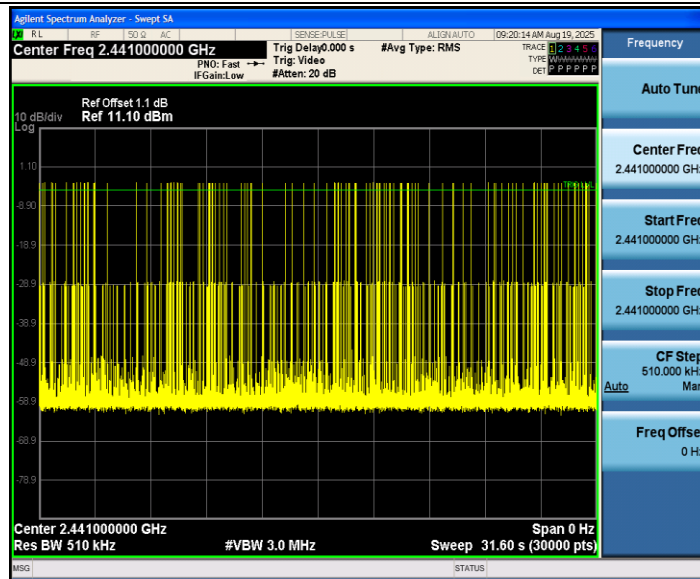
Bottom Screenshot (DH3_Ant1_Hop):

- Center Freq:** 2.441000000 GHz
- Ref Offset:** 1.1 dB
- Ref:** 11.10 dBm
- Trig Delay:** 0.000 s
- #Avg Type:** RMS
- IF Gain:** Low
- #Atten:** 20 dB
- Trace:** 1 (2.441 GHz)
- Type:** W (Waveform)
- Det:** P (Peak)
- Auto Tune:** On
- Center Freq:** 2.441000000 GHz
- Start Freq:** 2.441000000 GHz
- Stop Freq:** 2.441000000 GHz
- CF Step:** 510.000 kHz
- Freq Offset:** 0 Hz
- Center:** 2.441000000 GHz
- Res BW:** 510 kHz
- #VBW:** 3.0 MHz
- Sweep:** 31.60 s (30000 pts)

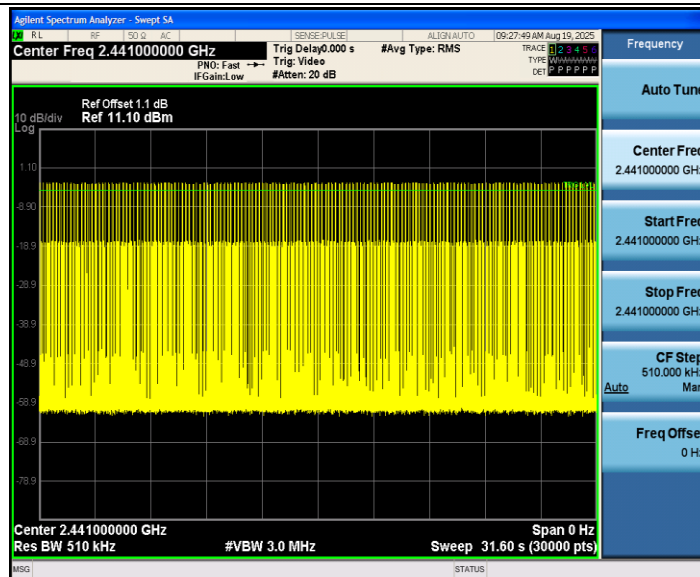
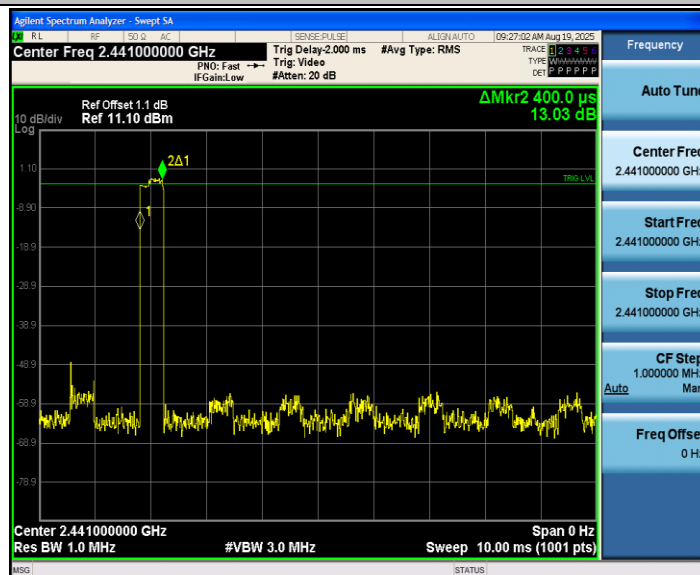


DH5_Ant1_Hop

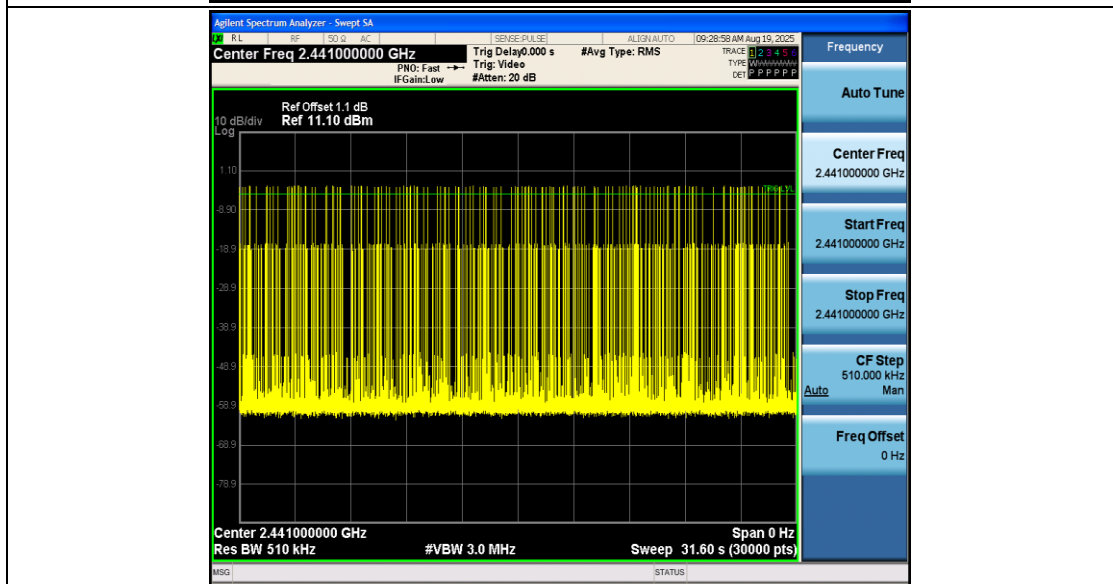
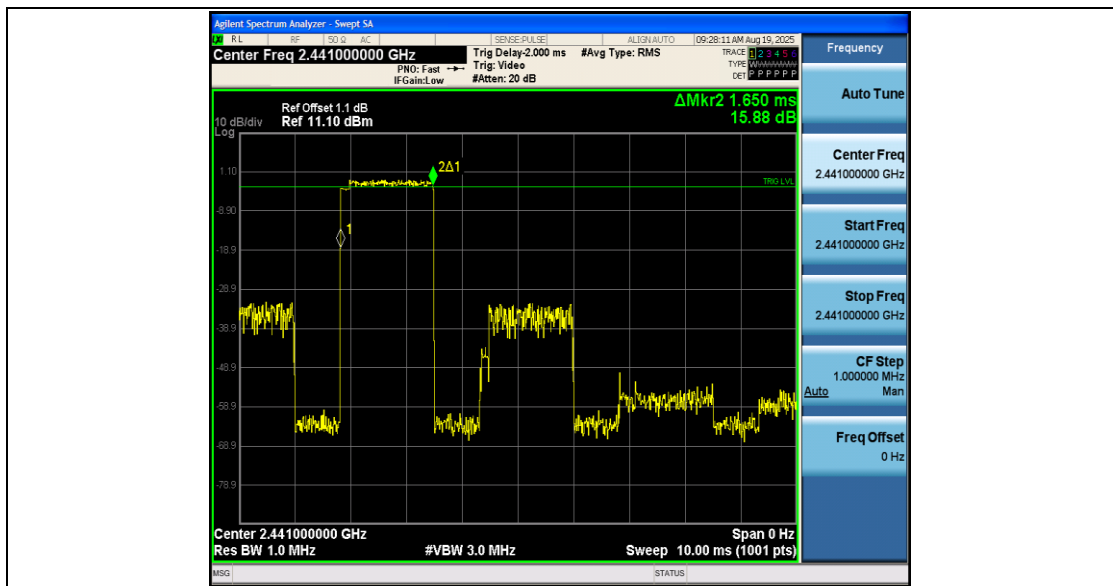




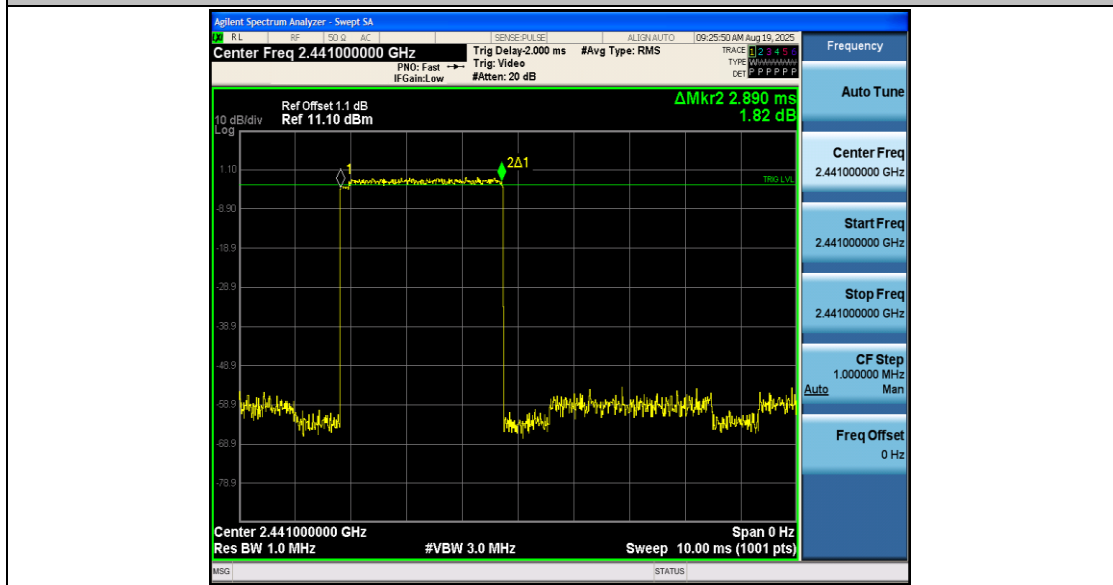
2DH1_Ant1_Hop

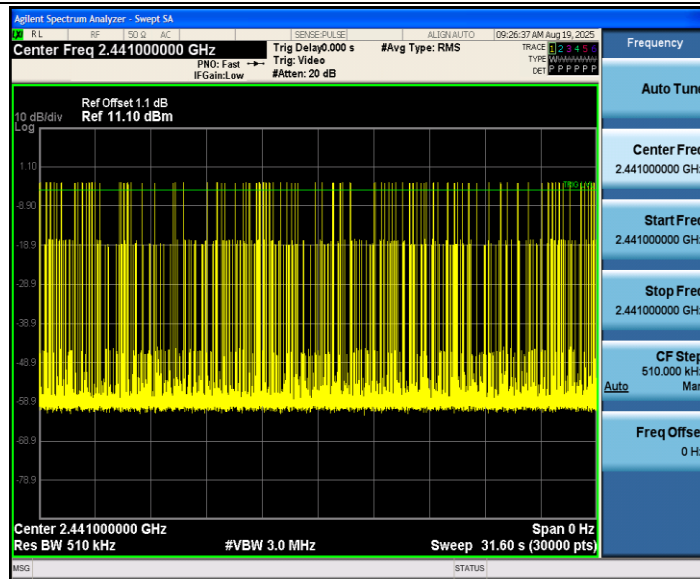


2DH3_Ant1_Hop

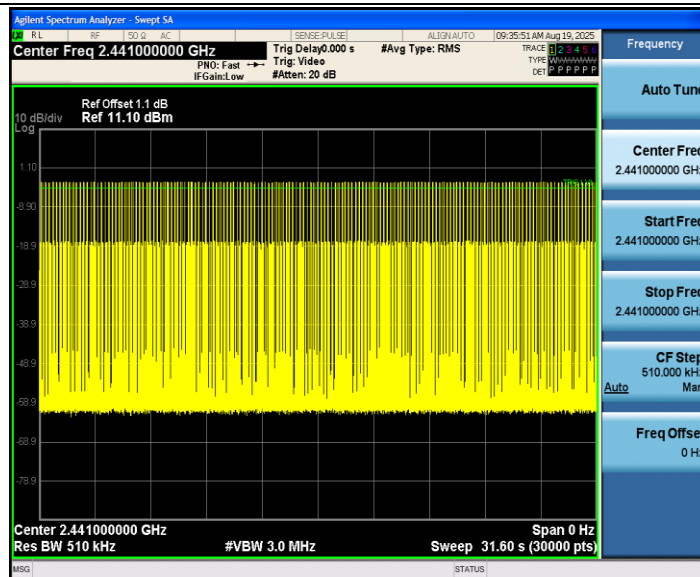
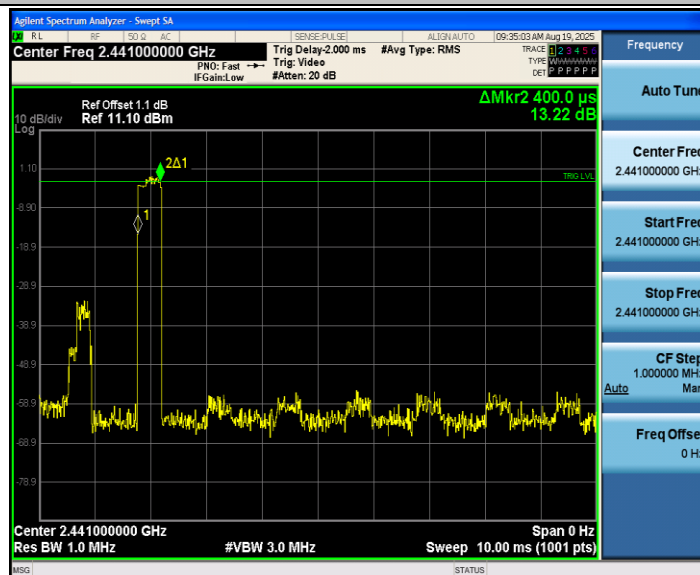


2DH5_Ant1_Hop

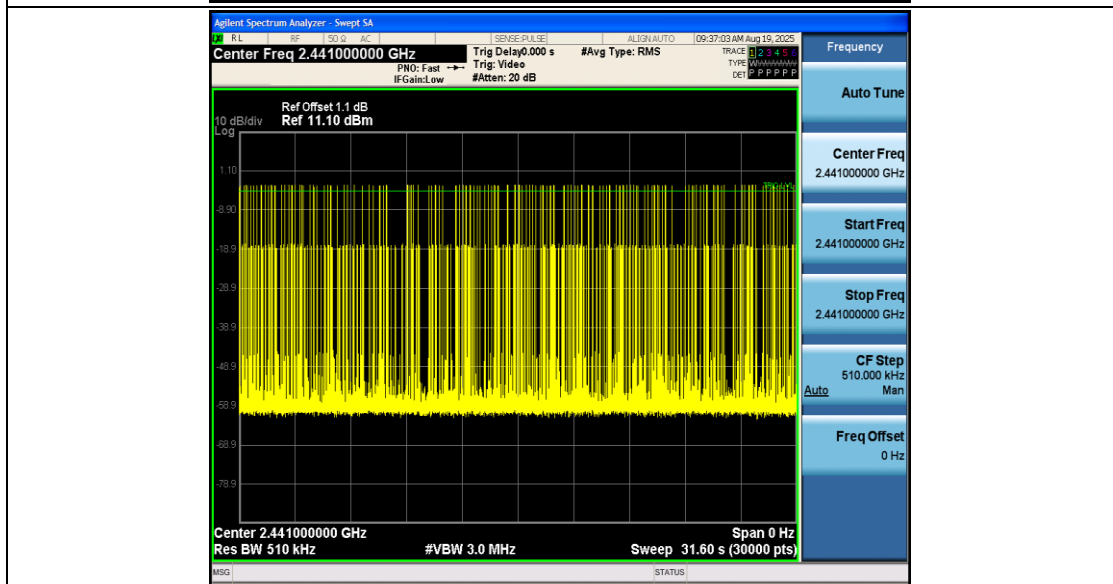
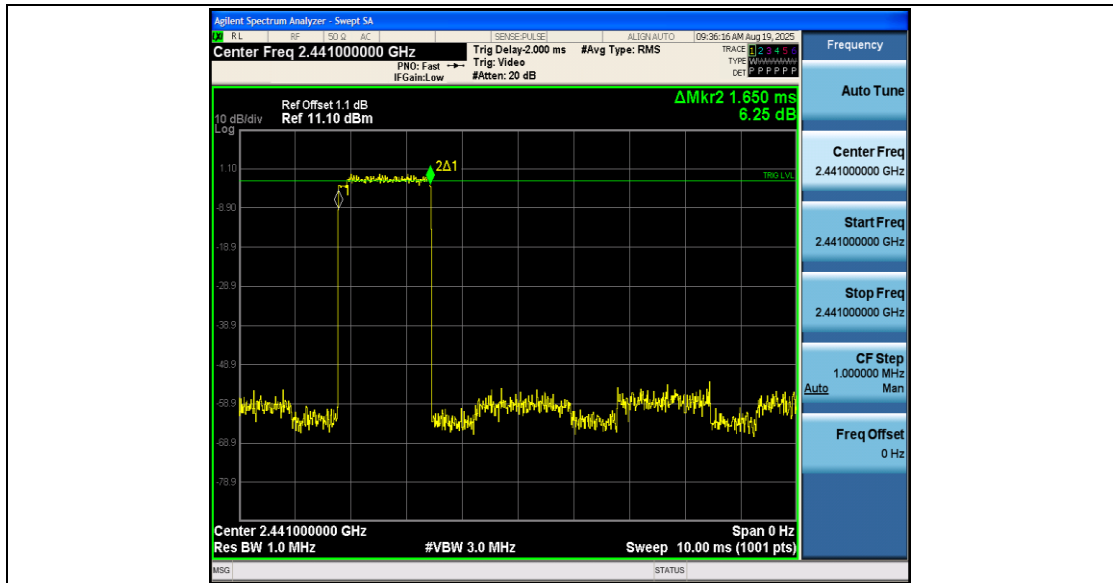




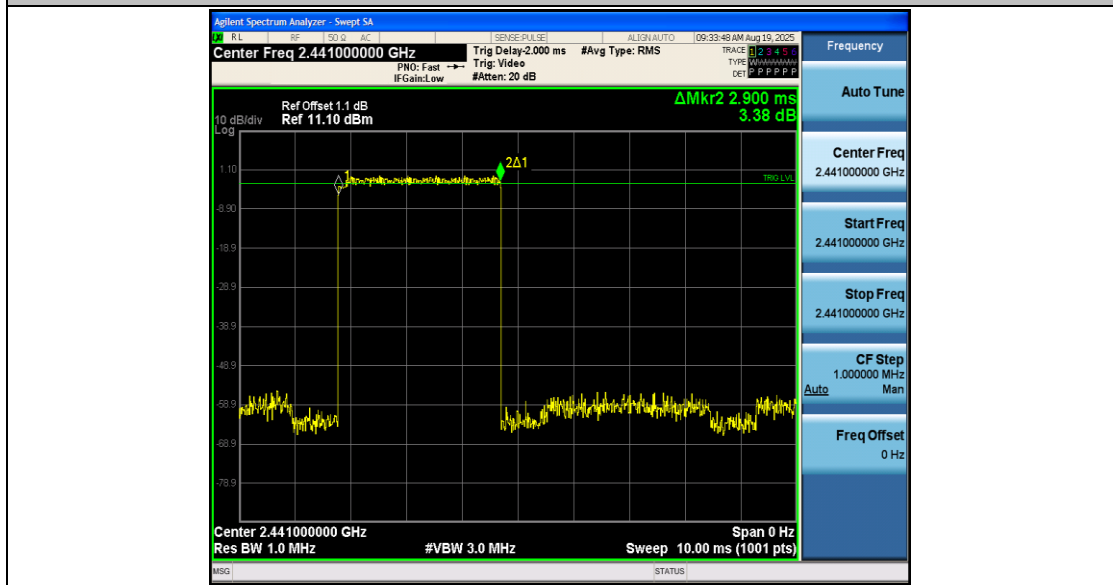
3DH1_Ant1_Hop

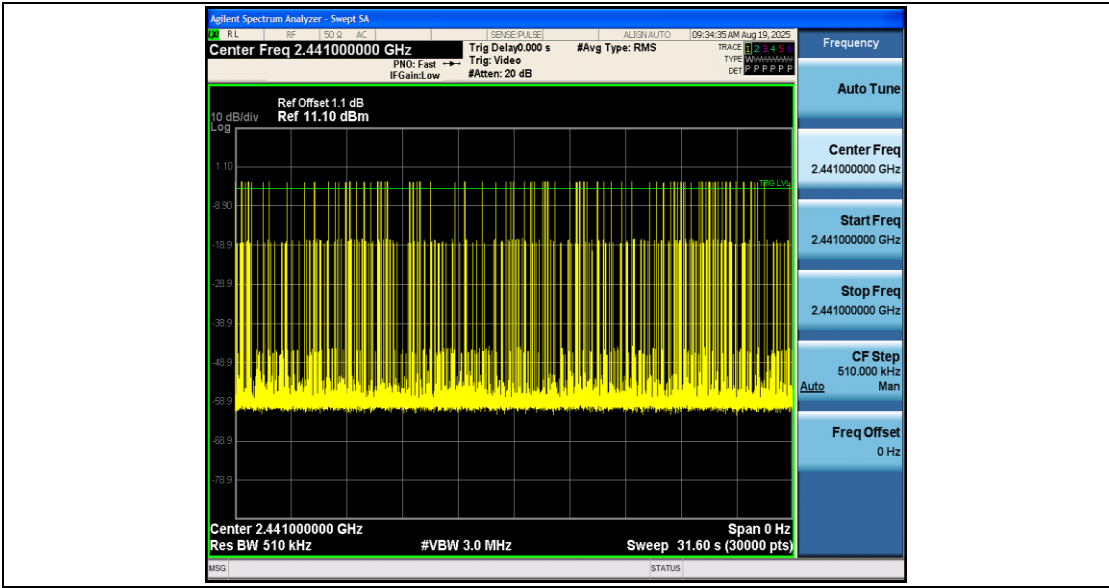


3DH3_Ant1_Hop



3DH5_Ant1_Hop





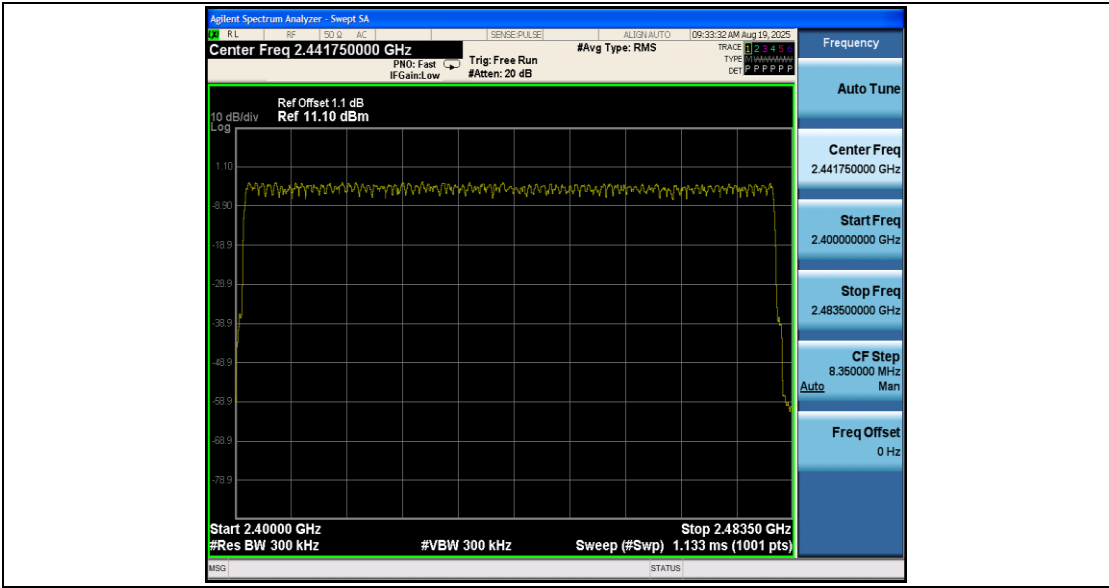
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	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



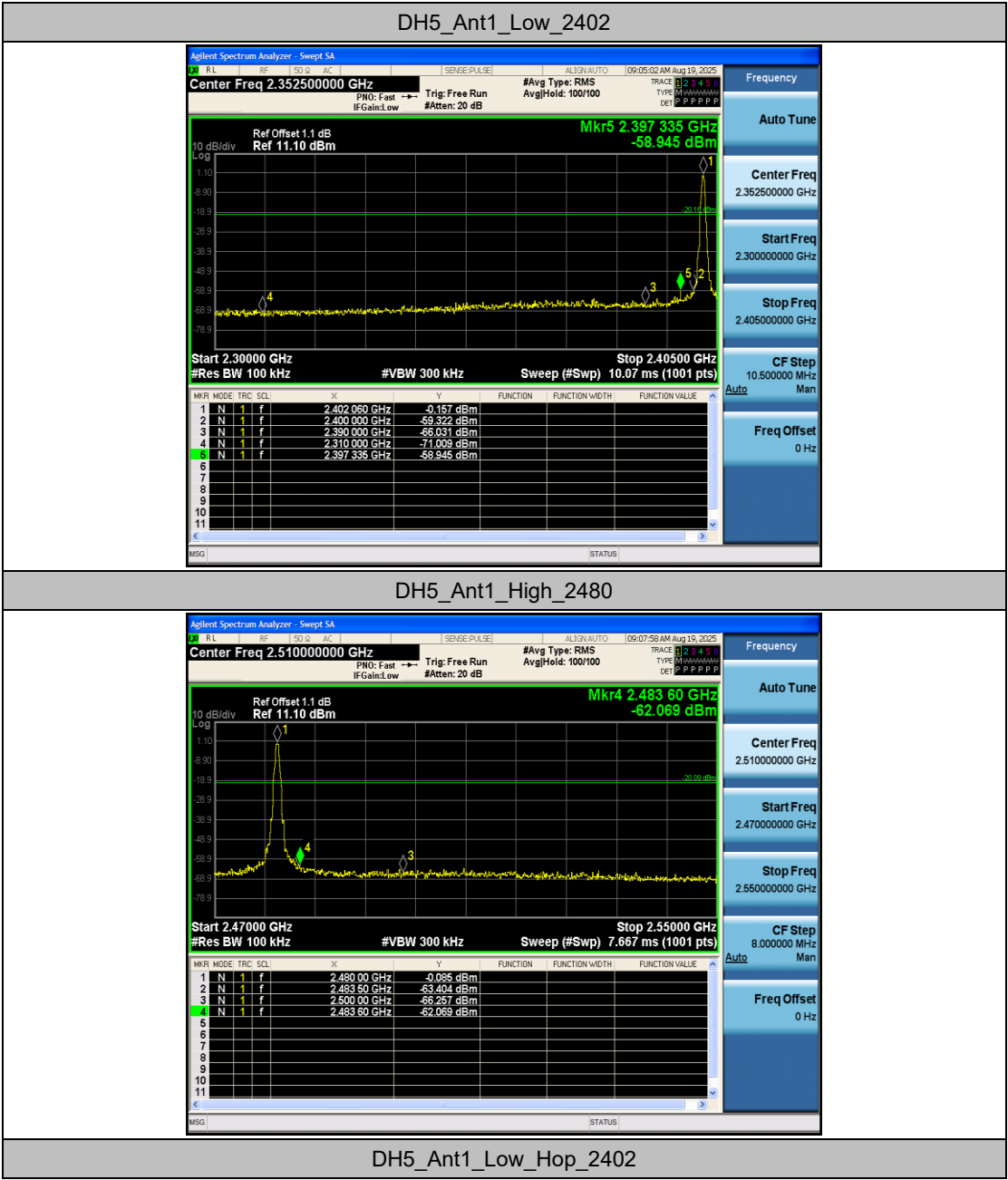


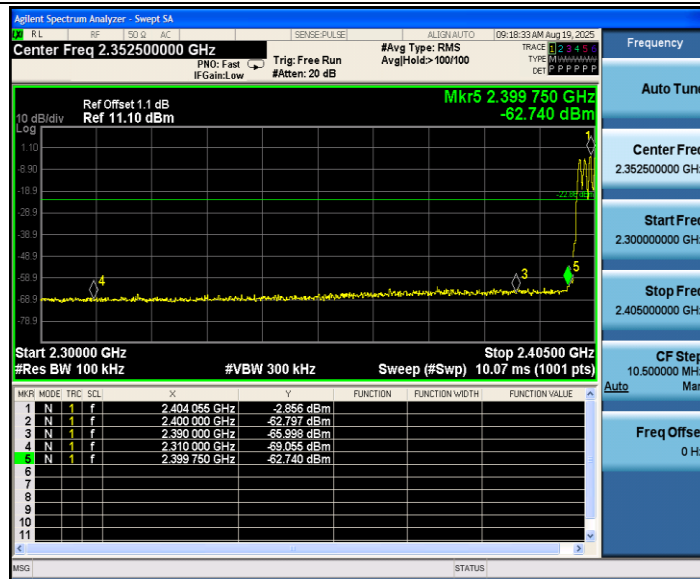
Appendix G: Band edge measurements

Test Result

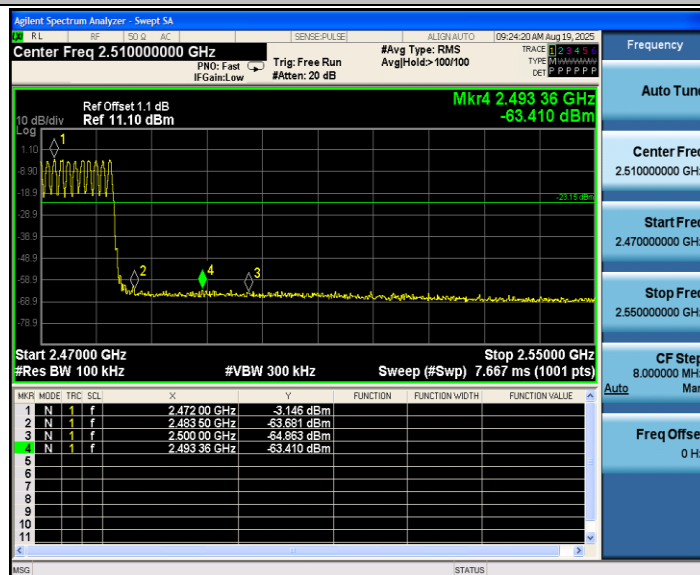
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.16	-58.95	≤-20.16	PASS
		High	2480	-0.09	-62.07	≤-20.09	PASS
		Low	Hop_2402	-2.86	-62.74	≤-22.86	PASS
		High	Hop_2480	-3.15	-63.41	≤-23.15	PASS
2DH5	Ant1	Low	2402	-5.38	-61.08	≤-25.38	PASS
		High	2480	-4.83	-63.55	≤-24.83	PASS
		Low	Hop_2402	-4.06	-63.53	≤-24.06	PASS
		High	Hop_2480	-4.10	-55.96	≤-24.1	PASS
3DH5	Ant1	Low	2402	-4.15	-58.03	≤-24.15	PASS
		High	2480	-5.11	-55.56	≤-25.11	PASS
		Low	Hop_2402	-5.55	-62.53	≤-25.55	PASS
		High	Hop_2480	-5.04	-63.6	≤-25.04	PASS

Test Graphs

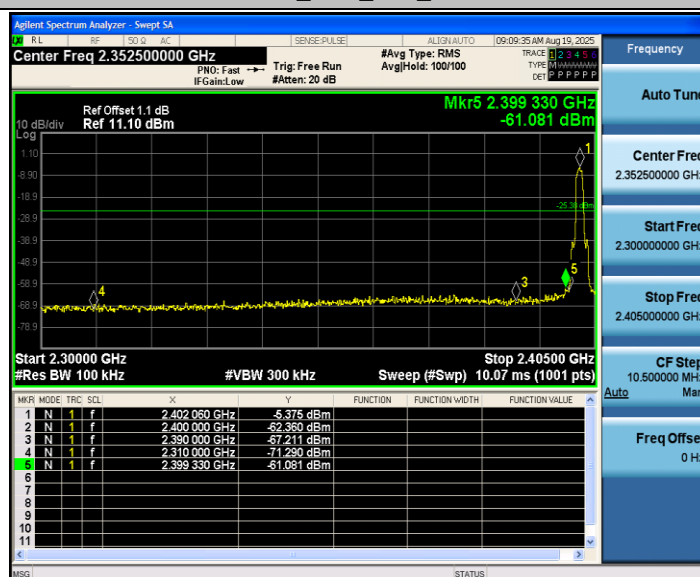




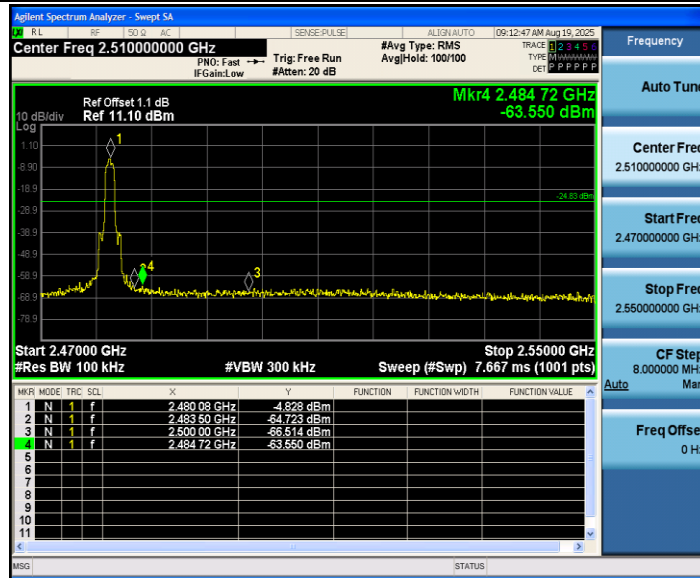
DH5_Ant1_High_Hop_2480



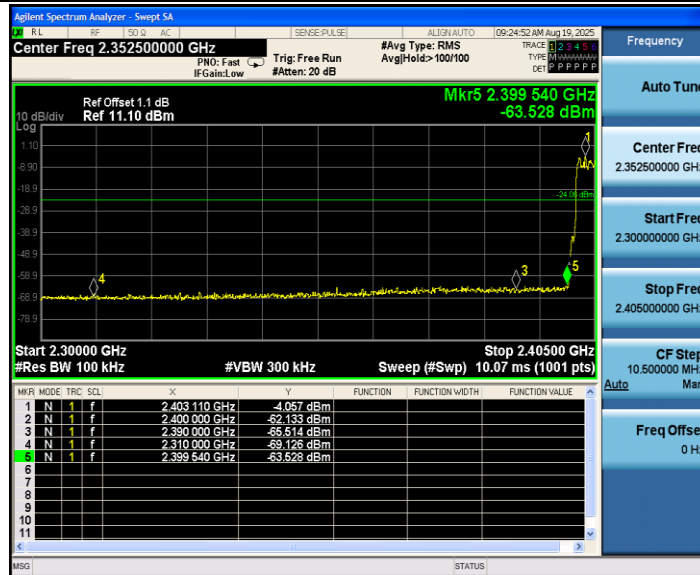
2DH5_Ant1_Low_2402



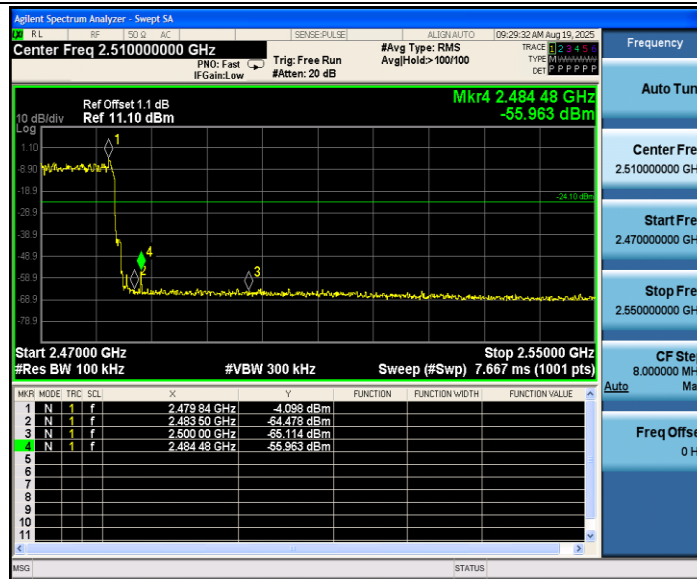
2DH5_Ant1_High_2480



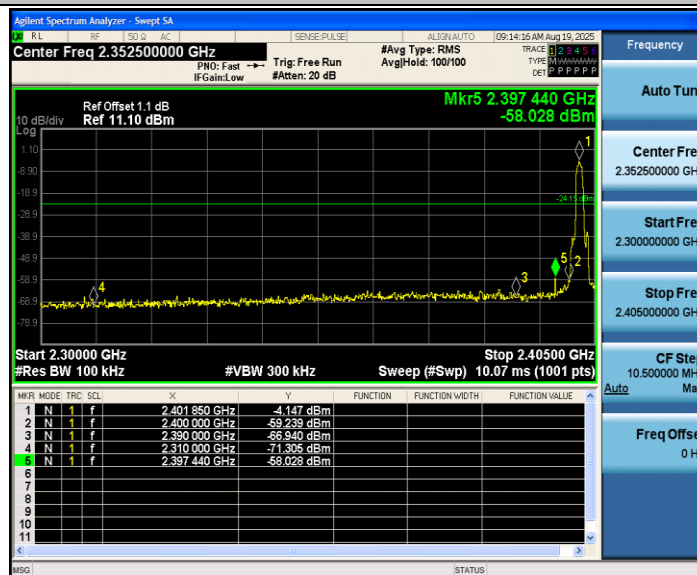
2DH5_Ant1_Low_Hop_2402



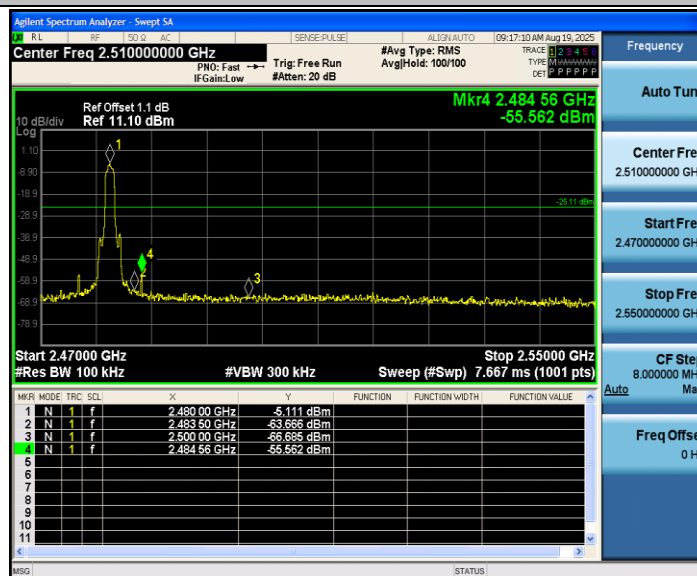
2DH5_Ant1_High_Hop_2480



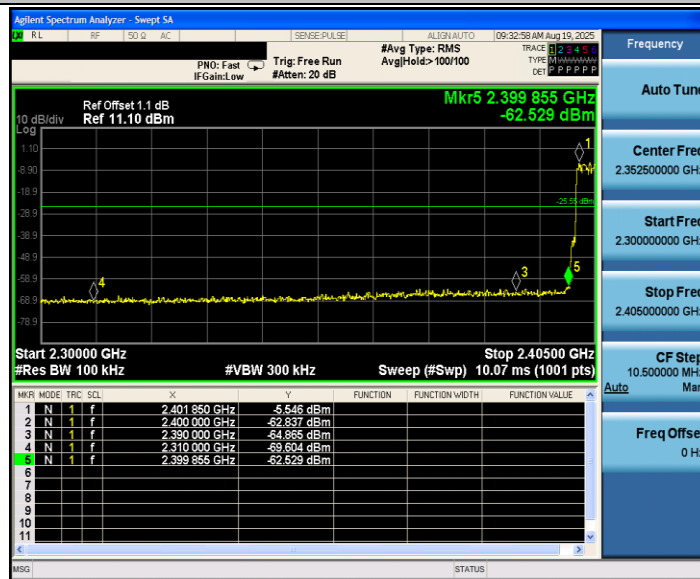
3DH5_Ant1_Low_2402



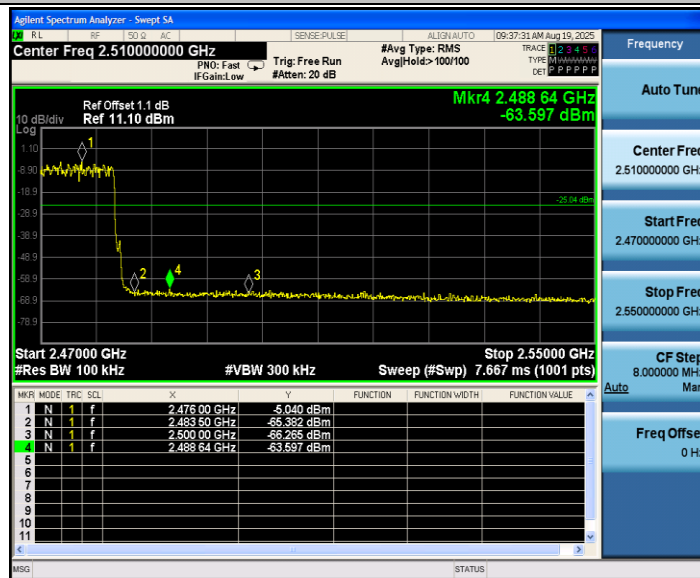
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

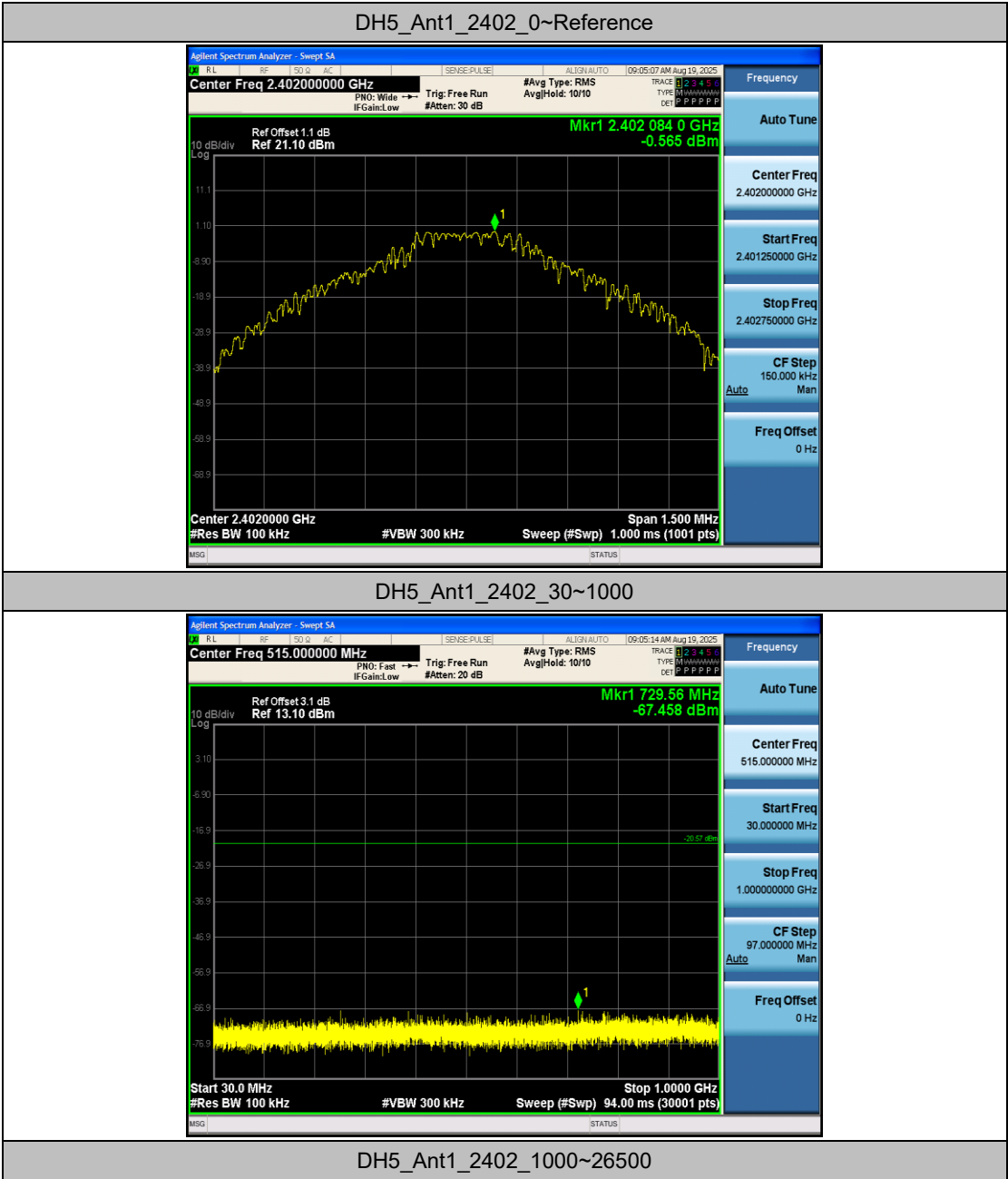


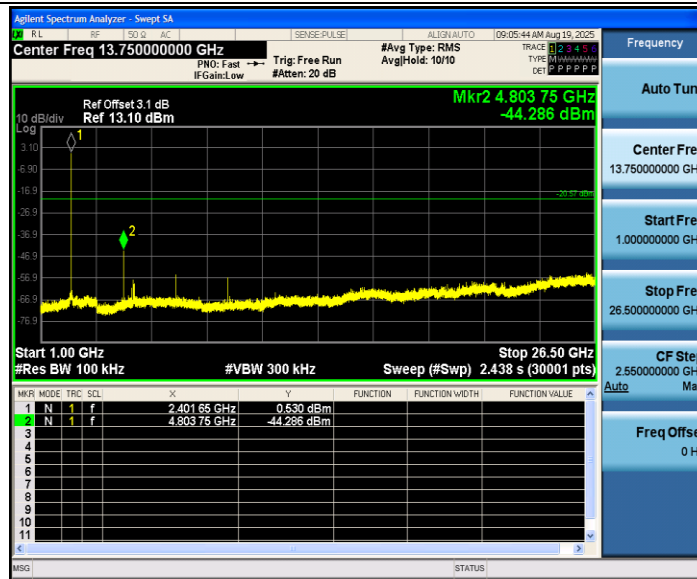
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.57	-0.57	---	PASS
			30~1000	-0.57	-67.46	≤-20.57	PASS
			1000~26500	-0.57	-44.29	≤-20.57	PASS
		2441	Reference	-1.02	-1.02	---	PASS
			30~1000	-1.02	-67.19	≤-21.02	PASS
			1000~26500	-1.02	-43.69	≤-21.02	PASS
		2480	Reference	-0.11	-0.11	---	PASS
			30~1000	-0.11	-67.24	≤-20.11	PASS
			1000~26500	-0.11	-43.86	≤-20.11	PASS
2DH5	Ant1	2402	Reference	-4.62	-4.62	---	PASS
			30~1000	-4.62	-66.87	≤-24.62	PASS
			1000~26500	-4.62	-49.75	≤-24.62	PASS
		2441	Reference	-5.43	-5.43	---	PASS
			30~1000	-5.43	-67.46	≤-25.43	PASS
			1000~26500	-5.43	-49	≤-25.43	PASS
		2480	Reference	-6.18	-6.18	---	PASS
			30~1000	-6.18	-67.37	≤-26.18	PASS
			1000~26500	-6.18	-47.69	≤-26.18	PASS
3DH5	Ant1	2402	Reference	-5.16	-5.16	---	PASS
			30~1000	-5.16	-66.83	≤-25.16	PASS
			1000~26500	-5.16	-51.18	≤-25.16	PASS
		2441	Reference	-3.63	-3.63	---	PASS
			30~1000	-3.63	-67	≤-23.63	PASS
			1000~26500	-3.63	-51.4	≤-23.63	PASS
		2480	Reference	-5.78	-5.78	---	PASS
			30~1000	-5.78	-66.87	≤-25.78	PASS
			1000~26500	-5.78	-47.77	≤-25.78	PASS

Test Graphs

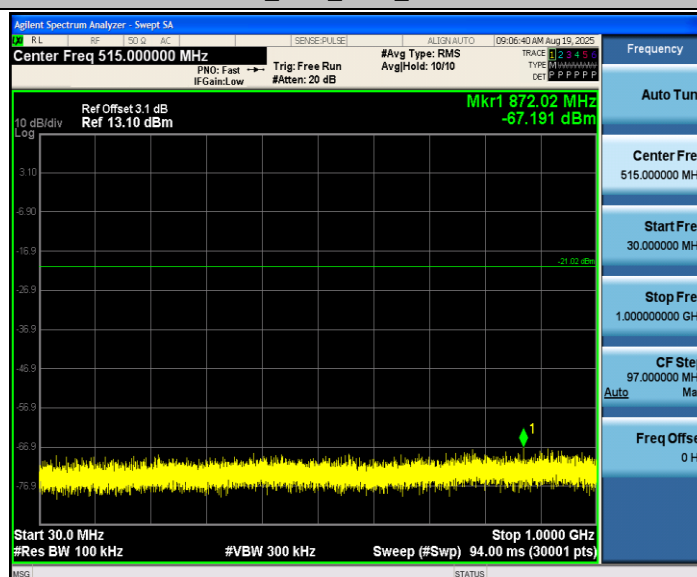




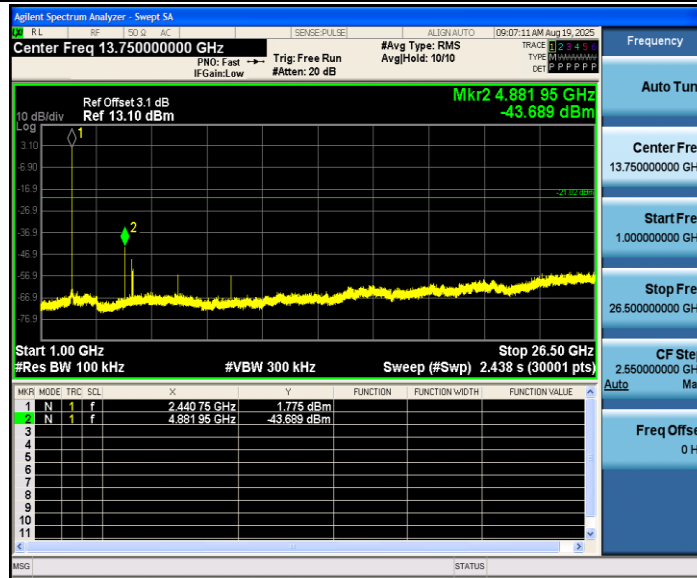
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000