

FCC Appendix RF Test Data

FCC ID : 2BQXV-JX01

Company : Shenzhen Jinjia Technology Co., Ltd.

EUT : Helmet Bluetooth headset

Model Number : JX01

Report No. : CTA25071402301

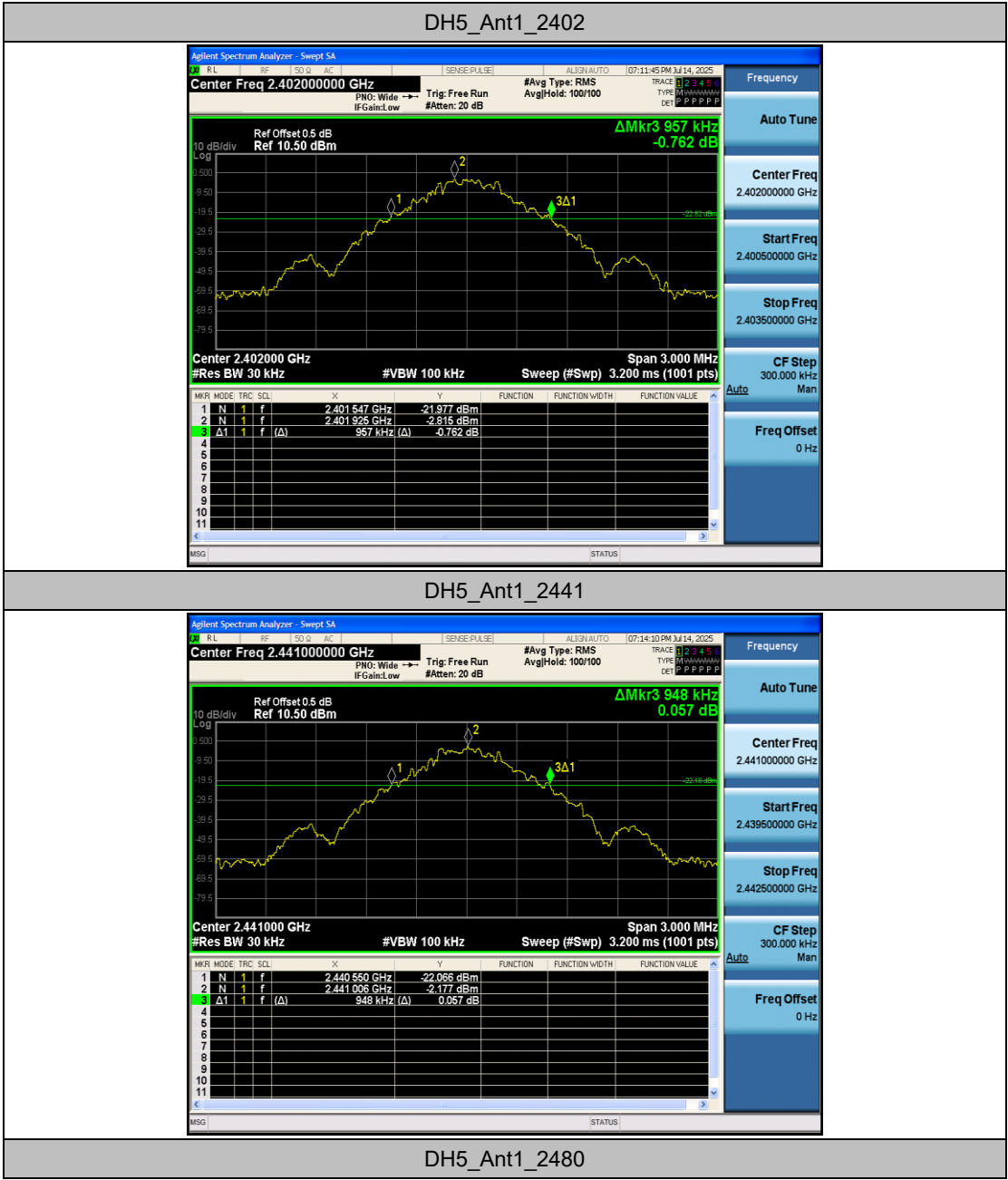
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.957	2401.547	2402.504	---	---
		2441	0.948	2440.550	2441.498	---	---
		2480	0.954	2479.544	2480.498	---	---
2DH5	Ant1	2402	1.320	2401.352	2402.672	---	---
		2441	1.281	2440.379	2441.660	---	---
		2480	1.311	2479.355	2480.666	---	---
3DH5	Ant1	2402	1.284	2401.370	2402.654	---	---
		2441	1.284	2440.367	2441.651	---	---
		2480	1.275	2479.367	2480.642	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

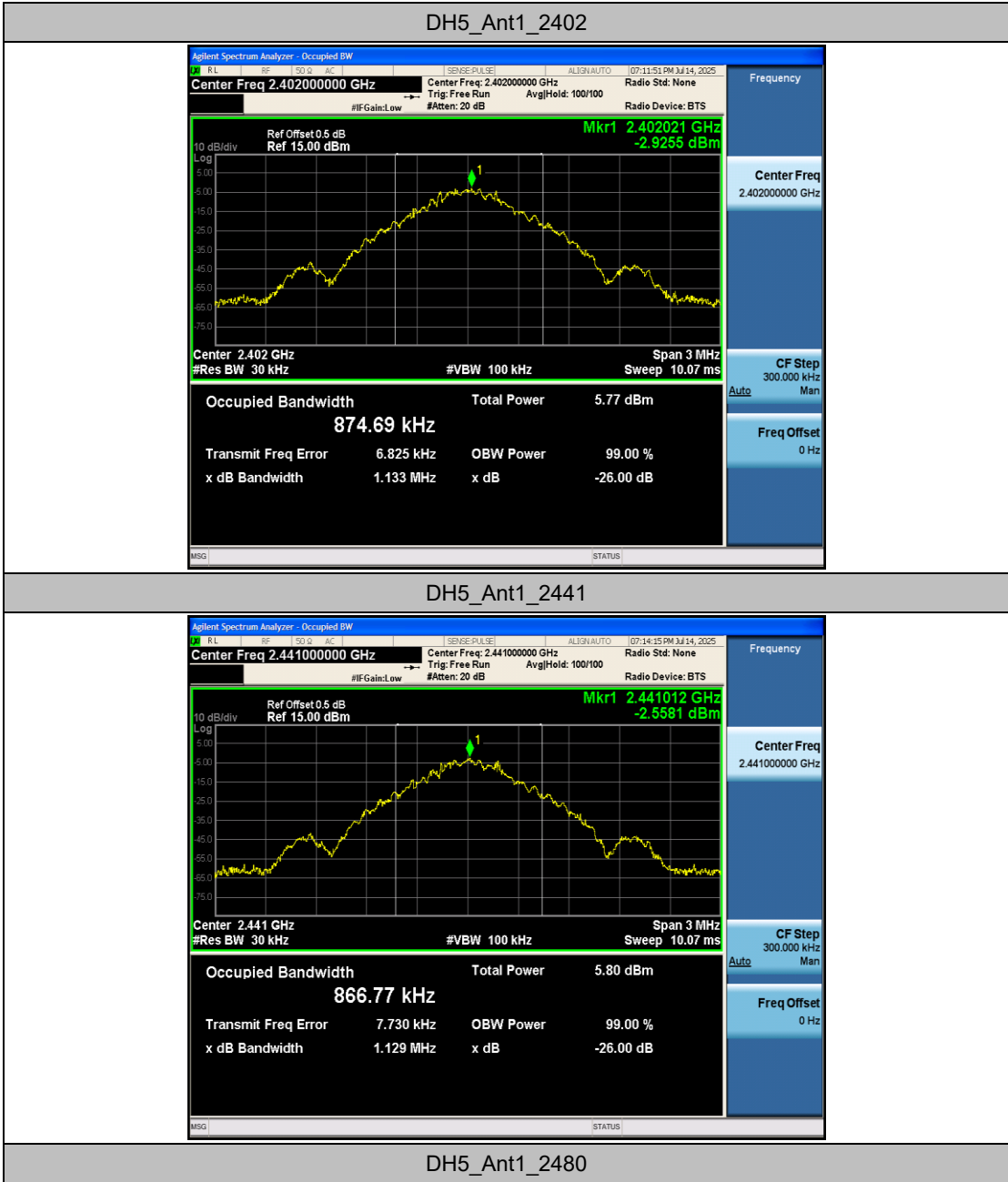


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87469	2401.5695	2402.4442	---	---
		2441	0.86677	2440.5743	2441.4411	---	---
		2480	0.87362	2479.5709	2480.4445	---	---
2DH5	Ant1	2402	1.1827	2401.4185	2402.6012	---	---
		2441	1.1894	2440.4151	2441.6045	---	---
		2480	1.1874	2479.4161	2480.6035	---	---
3DH5	Ant1	2402	1.1876	2401.4155	2402.6031	---	---
		2441	1.1898	2440.4148	2441.6046	---	---
		2480	1.1935	2479.4134	2480.6069	---	---

Test Graphs

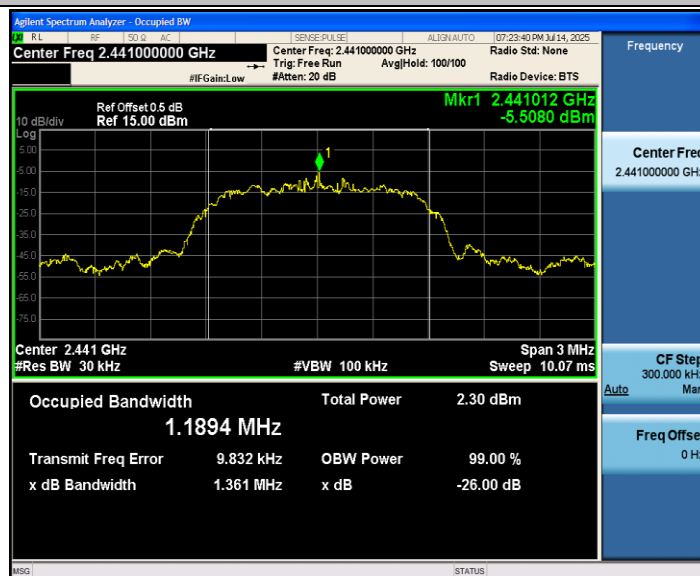




2DH5_Ant1_2402



2DH5_Ant1_2441



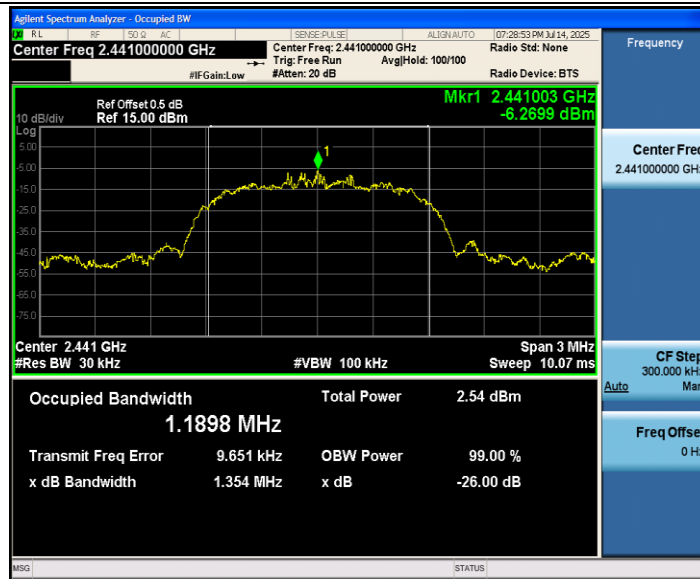
2DH5_Ant1_2480



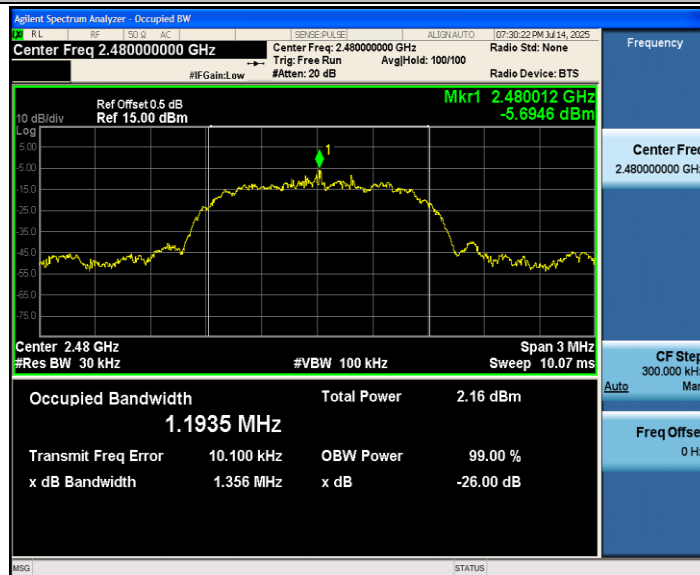
3DH5_Ant1_2402



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	0.02	≤20.97	PASS
		2441	-0.23	≤20.97	PASS
		2480	-0.31	≤20.97	PASS
2DH5	Ant1	2402	-0.80	≤20.97	PASS
		2441	-1.04	≤20.97	PASS
		2480	-1.13	≤20.97	PASS
3DH5	Ant1	2402	-0.39	≤20.97	PASS
		2441	-0.65	≤20.97	PASS
		2480	-0.72	≤20.97	PASS

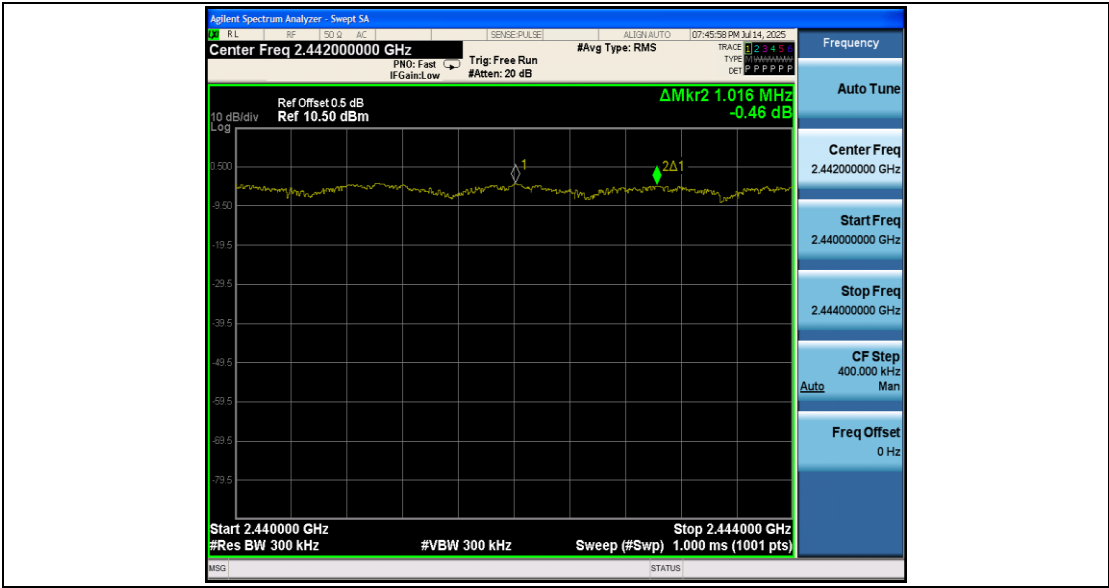
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.032	≥ 0.957	PASS
2DH5	Ant1	Hop	1.148	≥ 0.880	PASS
3DH5	Ant1	Hop	1.016	≥ 0.856	PASS

Test Graphs



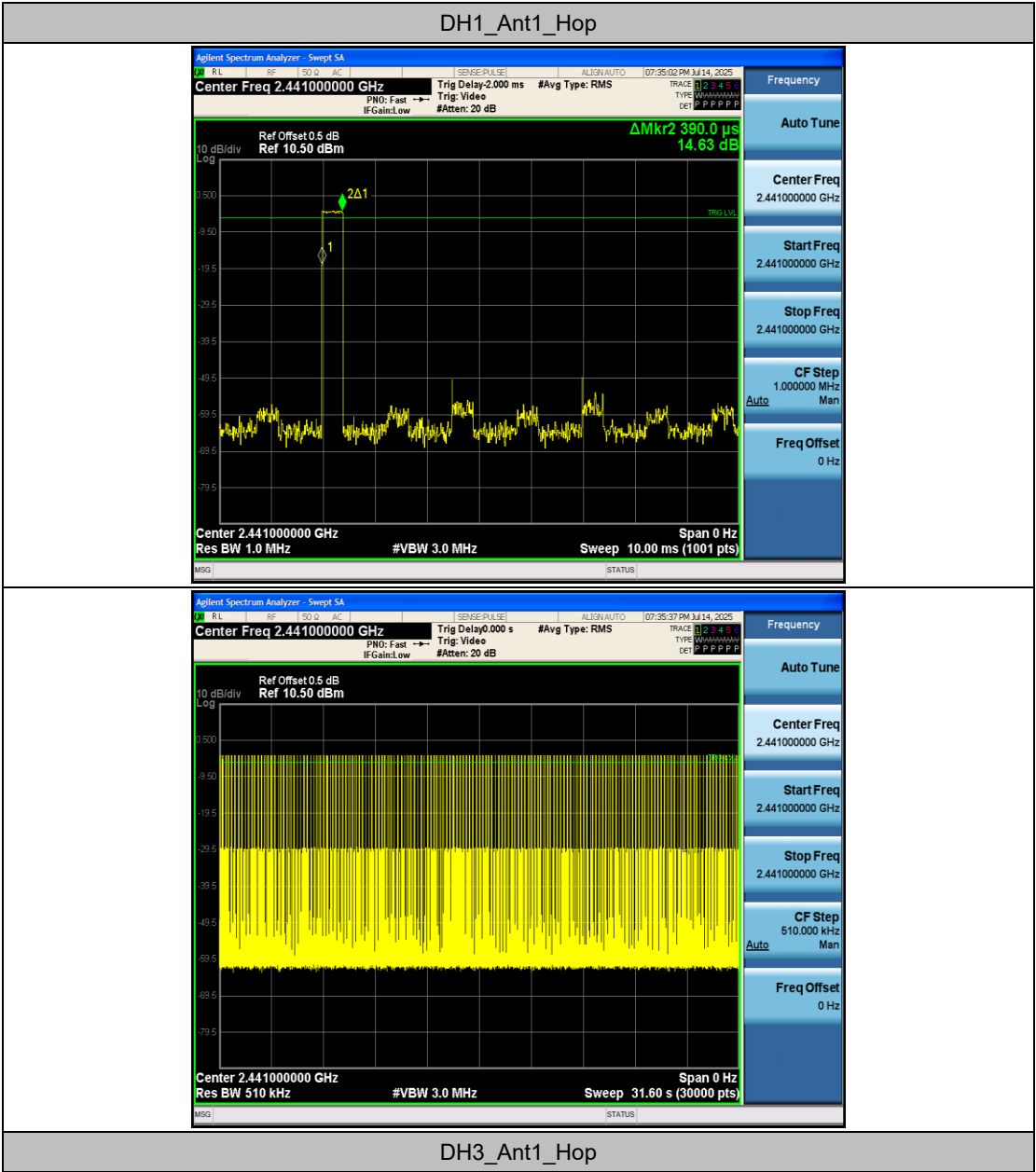


Appendix E: Time of occupancy

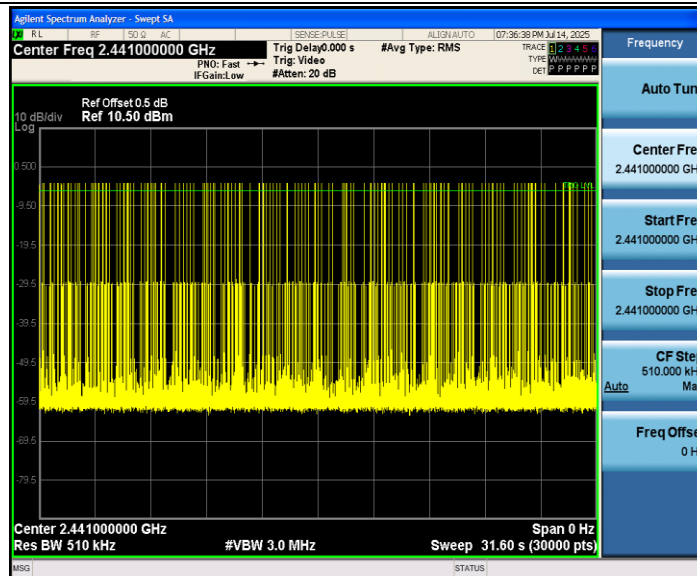
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	318	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.650	159	0.262	≤0.4	PASS
DH5	Ant1	Hop	2.890	104	0.301	≤0.4	PASS
2DH1	Ant1	Hop	0.400	317	0.127	≤0.4	PASS
2DH3	Ant1	Hop	1.650	160	0.264	≤0.4	PASS
2DH5	Ant1	Hop	2.900	107	0.31	≤0.4	PASS
3DH1	Ant1	Hop	0.400	319	0.128	≤0.4	PASS
3DH3	Ant1	Hop	1.650	153	0.252	≤0.4	PASS
3DH5	Ant1	Hop	2.900	107	0.31	≤0.4	PASS

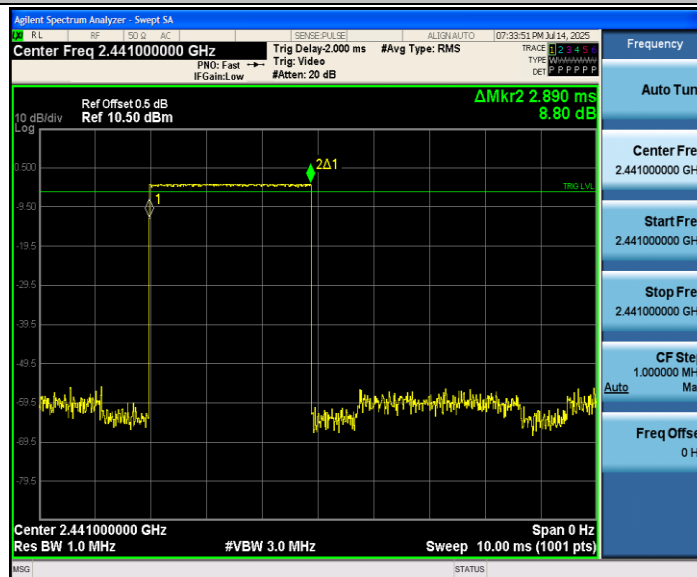
Test Graphs

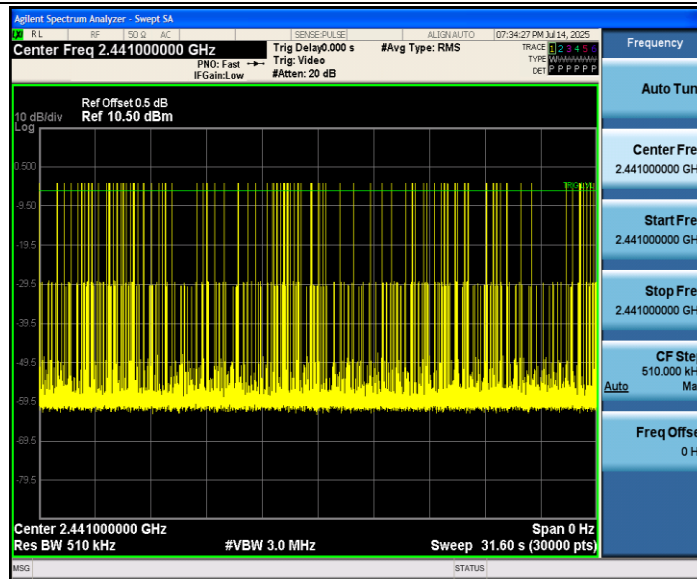


DH3_Ant1_Hop

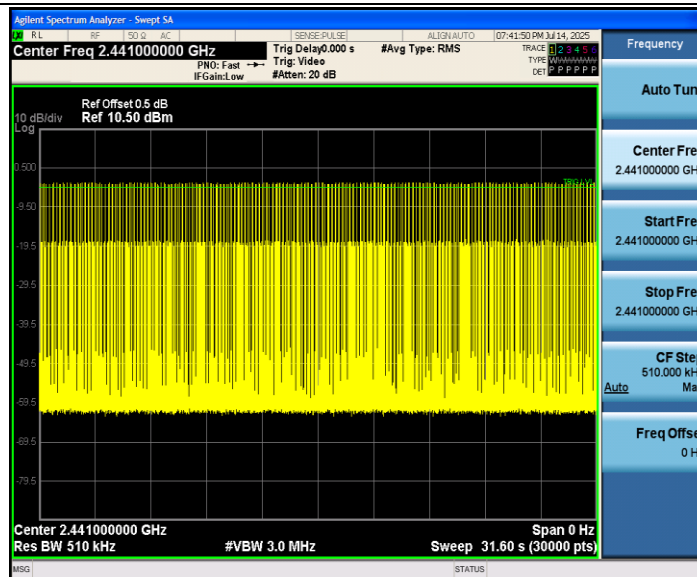
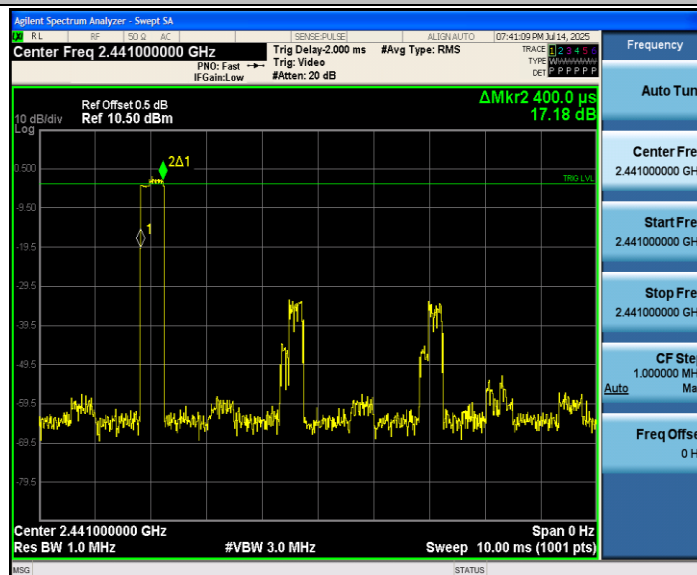


DH5_Ant1_Hop

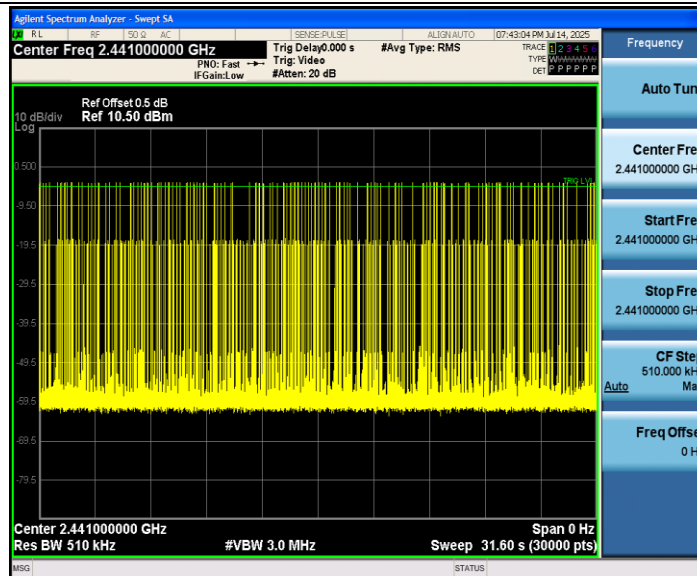
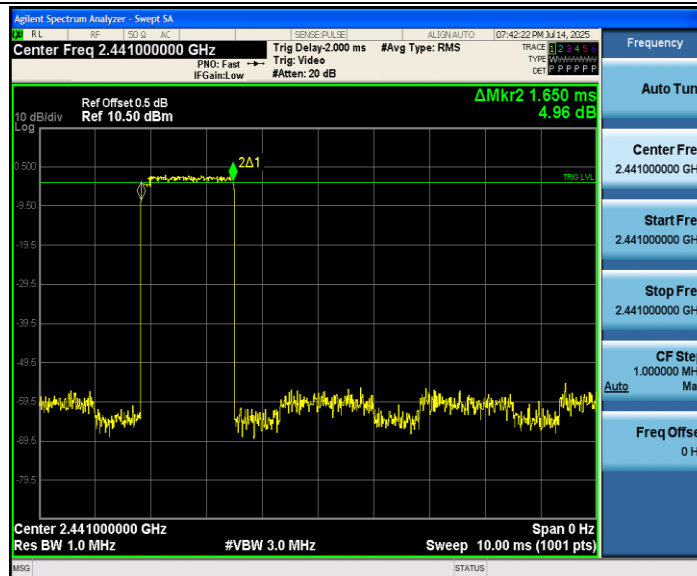




2DH1_Ant1_Hop

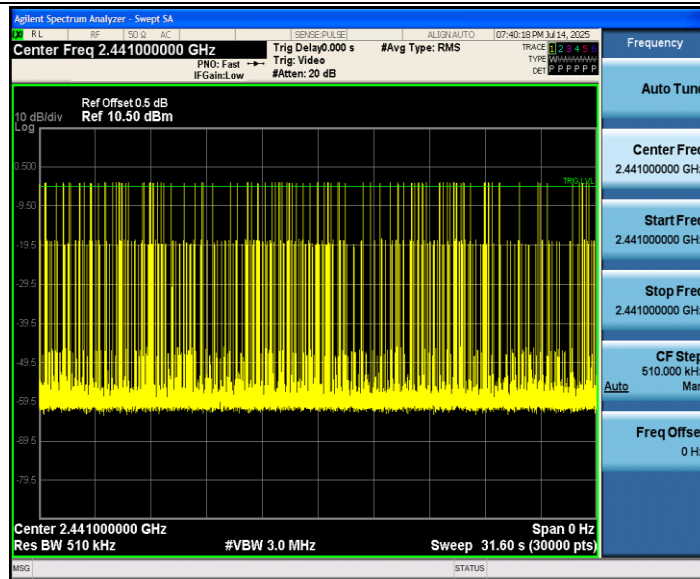


2DH3_Ant1_Hop

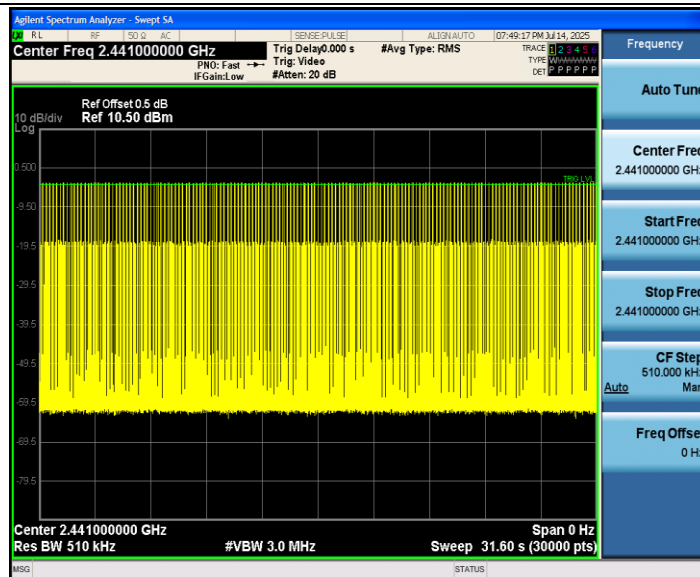
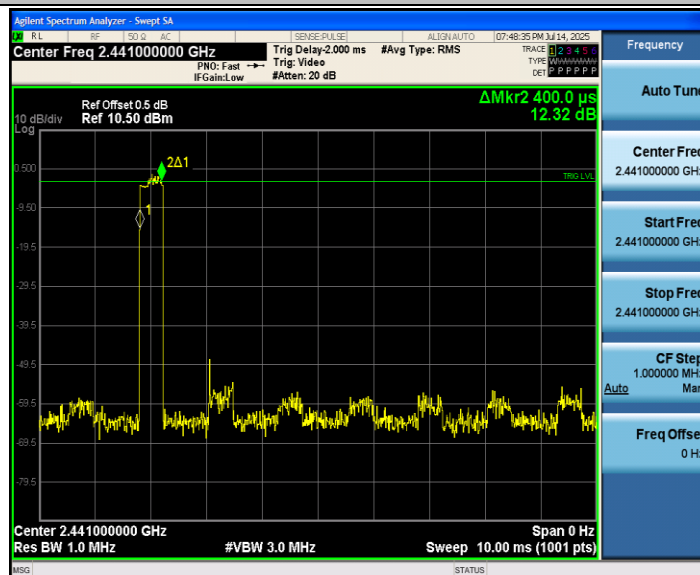


2DH5_Ant1_Hop

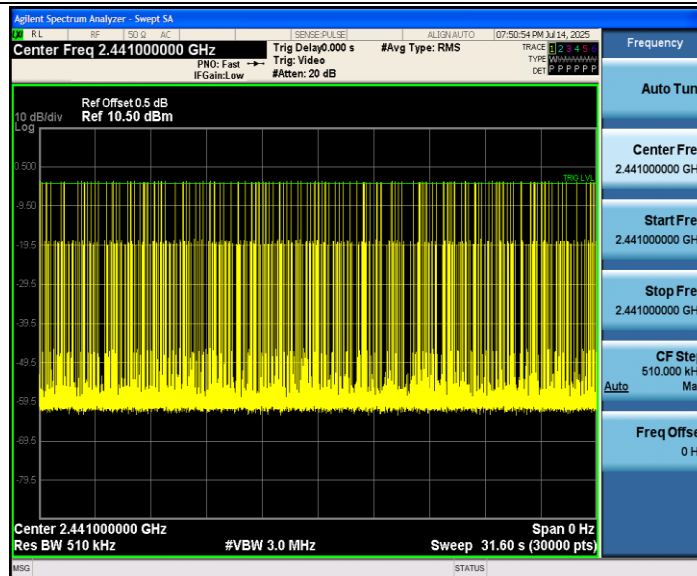




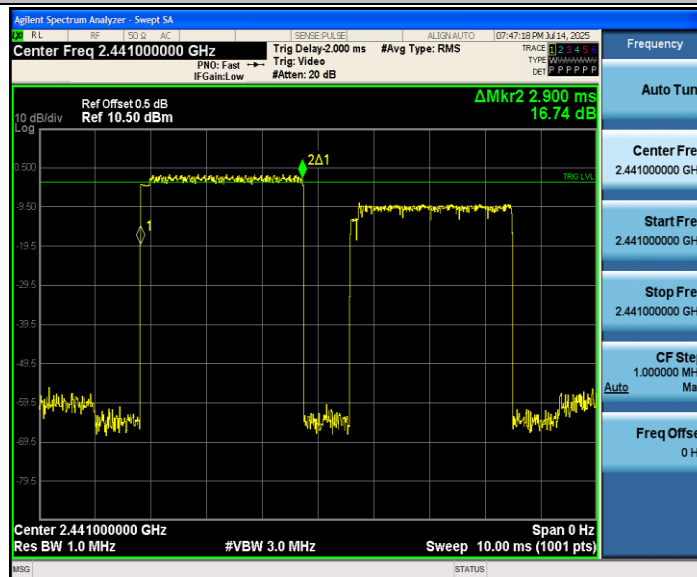
3DH1_Ant1_Hop

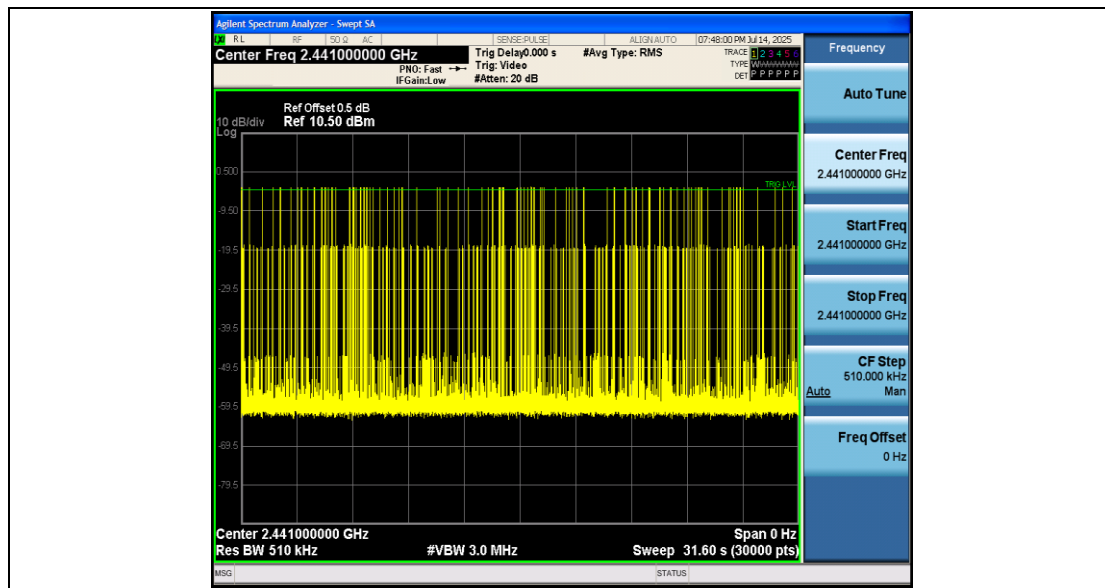


3DH3_Ant1_Hop



3DH5_Ant1_Hop





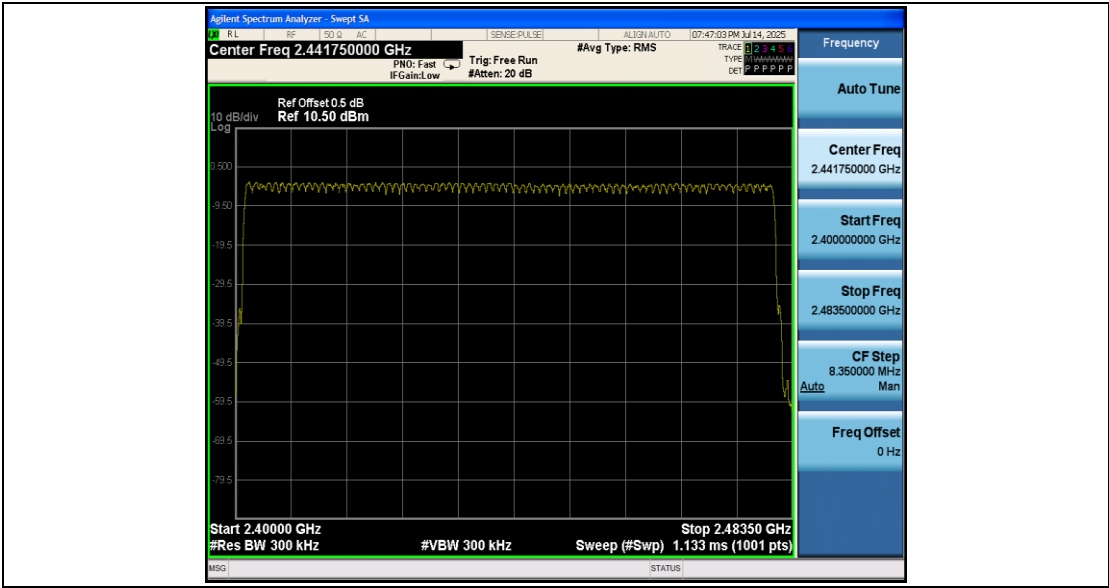
Appendix F: Number of hopping channels

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 E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.46	-58.11	≤ -20.46	PASS
		High	2480	-0.87	-52.01	≤ -20.87	PASS
		Low	Hop_2402	-3.85	-63.65	≤ -23.85	PASS
		High	Hop_2480	-4.19	-63.35	≤ -24.19	PASS
2DH5	Ant1	Low	2402	-4.70	-61.12	≤ -24.7	PASS
		High	2480	-4.83	-55.62	≤ -24.83	PASS
		Low	Hop_2402	-5.02	-61.92	≤ -25.02	PASS
		High	Hop_2480	-4.43	-63.97	≤ -24.43	PASS
3DH5	Ant1	Low	2402	-3.44	-60.36	≤ -23.44	PASS
		High	2480	-4.30	-64.25	≤ -24.3	PASS
		Low	Hop_2402	-4.72	-58.34	≤ -24.72	PASS
		High	Hop_2480	-5.53	-63.44	≤ -25.53	PASS

DH5_Ant1_Low_2402

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.352500000 GHz
Ref Offset 0.5 dB
Ref 10.50 dBm

Frequency: 2.352500000 GHz
Auto Tune
Center Freq 2.352500000 GHz
Start Freq 2.300000000 GHz
Stop Freq 2.405000000 GHz
CF Step 10.500000 MHz
Freq Offset 0 Hz

Mkr5 2.399750 GHz
-58.111 dBm

Start 2.30000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep (#Swp) 10.07 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.401955 GHz	-0.457 dBm			
2	N	1	f	2.400000 GHz	-59.892 dBm			
3	N	1	f	2.390000 GHz	-65.977 dBm			
4	N	1	f	2.310000 GHz	-70.007 dBm			
5	N	1	f	2.399750 GHz	-58.111 dBm			

DH5_Ant1_High_2480

Agilent Spectrum Analyzer - Swept SA

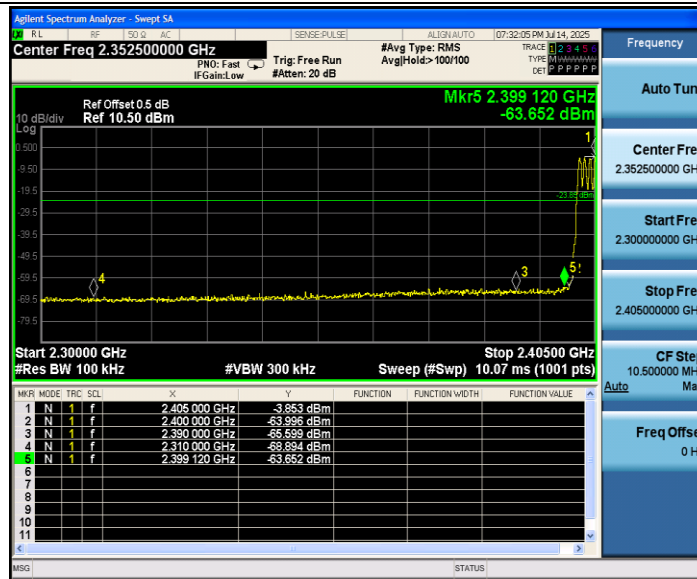
Center Freq 2.510000000 GHz
Ref Offset 0.5 dB
Ref 10.50 dBm

Frequency: 2.510000000 GHz
Auto Tune
Center Freq 2.510000000 GHz
Start Freq 2.470000000 GHz
Stop Freq 2.550000000 GHz
CF Step 8.000000 MHz
Freq Offset 0 Hz

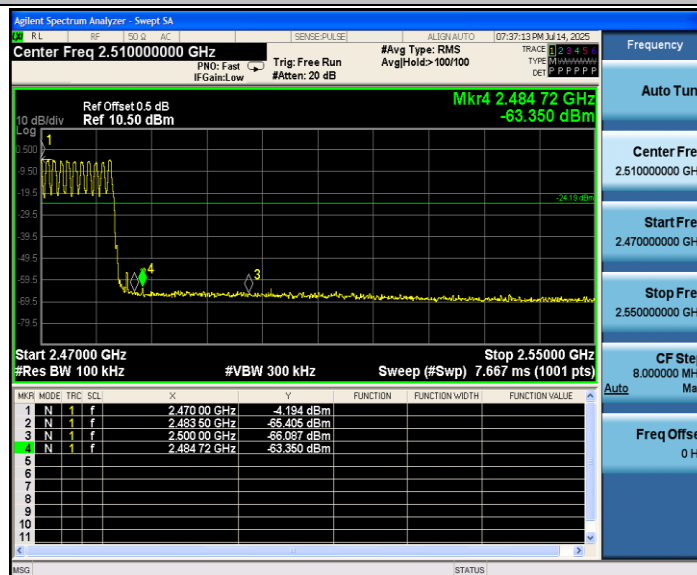
Mkr4 2.48456 GHz
-52.009 dBm

Start 2.47000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep (#Swp) 7.667 ms (1001 pts)

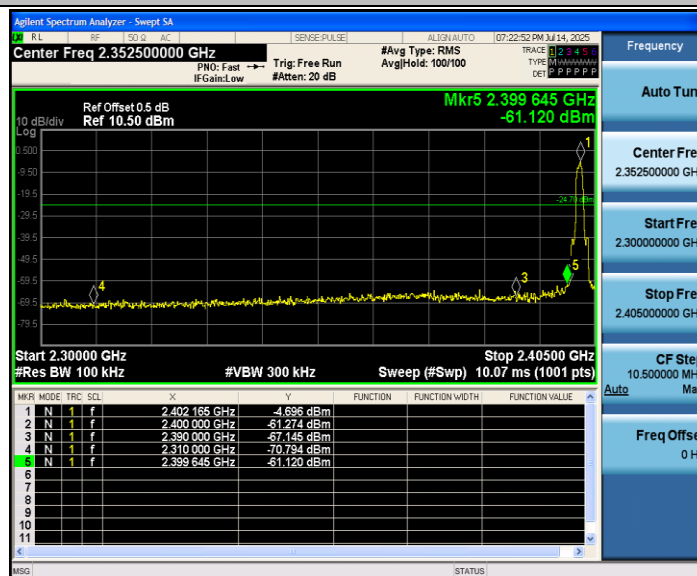
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.48000 GHz	-0.871 dBm			
2	N	1	f	2.48350 GHz	-63.513 dBm			
3	N	1	f	2.50000 GHz	-67.248 dBm			
4	N	1	f	2.48456 GHz	-52.009 dBm			



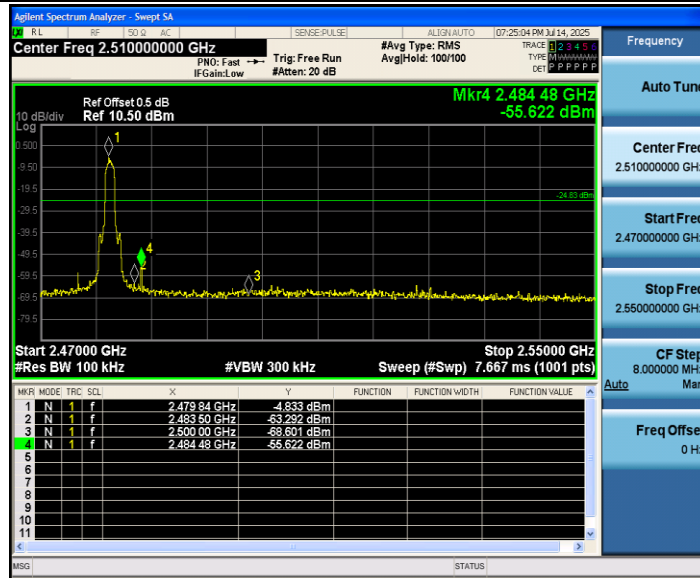
DH5_Ant1_High_Hop_2480



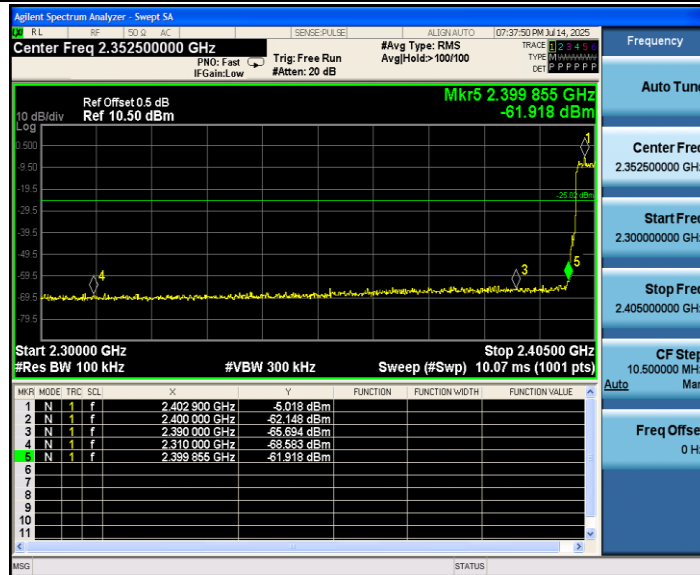
2DH5_Ant1_Low_2402



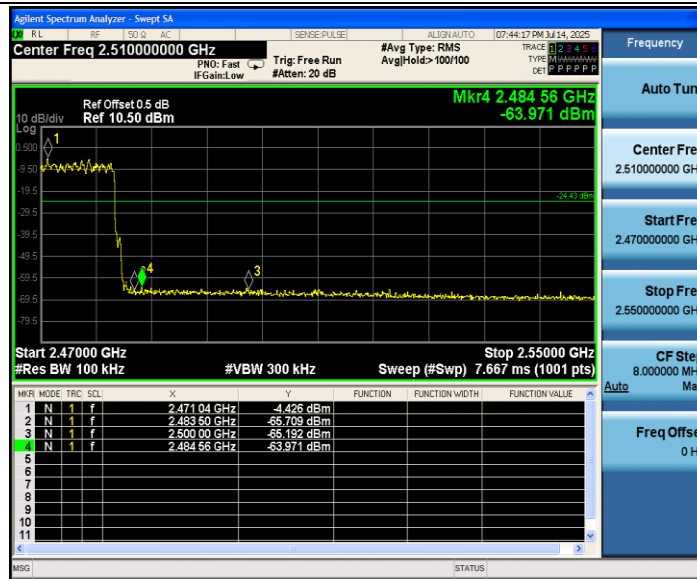
2DH5_Ant1_High_2480



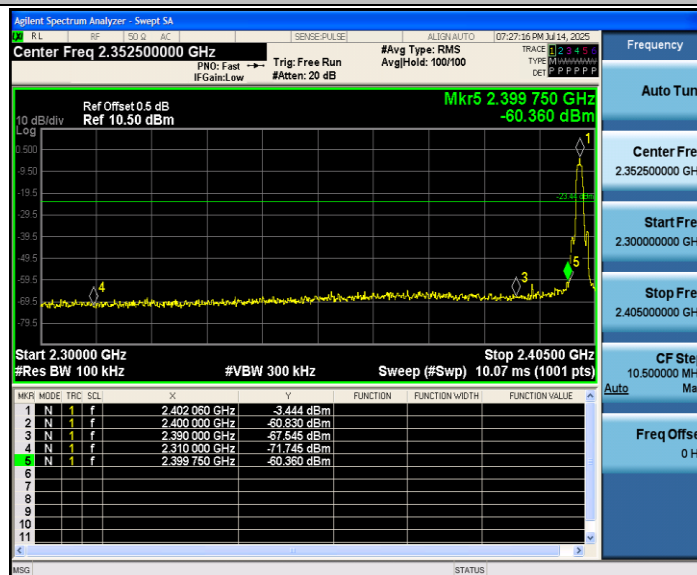
2DH5_Ant1_Low_Hop_2402



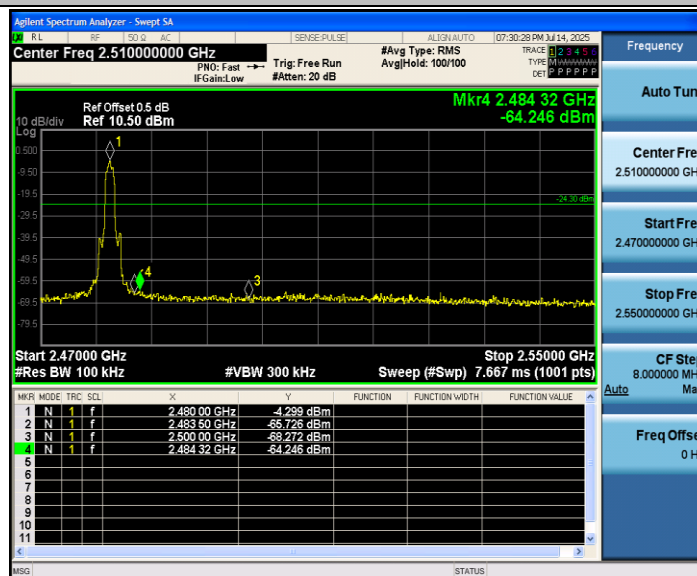
2DH5_Ant1_High_Hop_2480



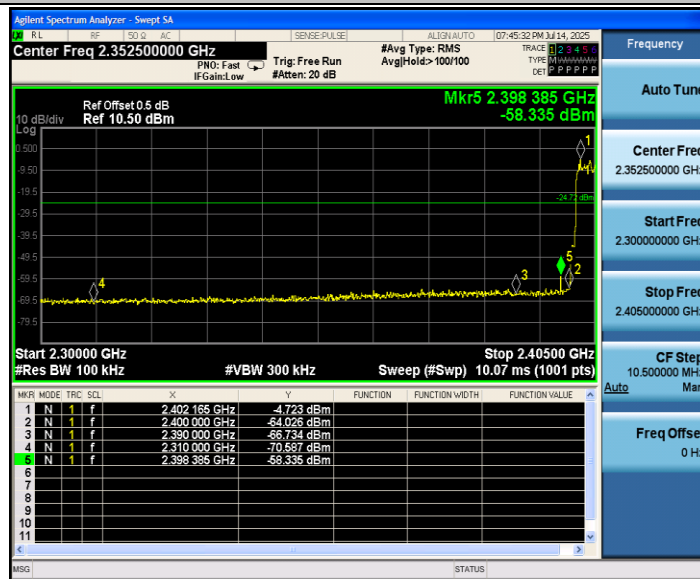
3DH5_Ant1_Low_2402



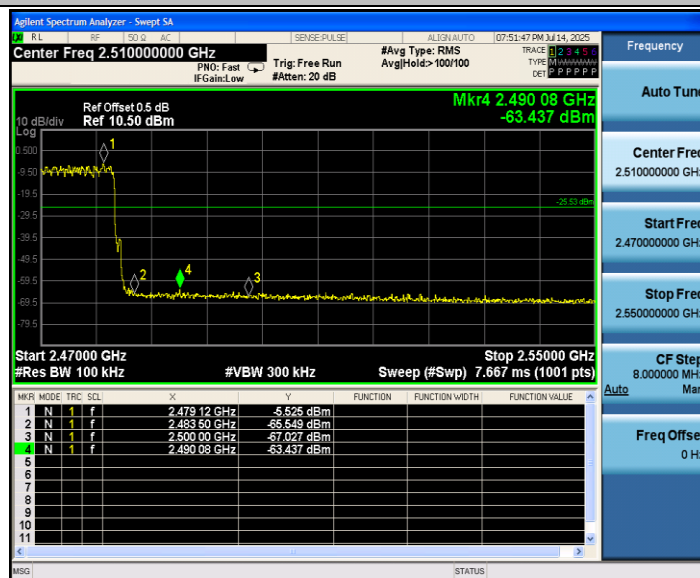
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.73	-0.73	---	PASS
			30~1000	-0.73	-68.5	≤-20.73	PASS
			1000~26500	-0.73	-45.12	≤-20.73	PASS
		2441	Reference	-1.26	-1.26	---	PASS
			30~1000	-1.26	-68.08	≤-21.26	PASS
			1000~26500	-1.26	-44.49	≤-21.26	PASS
		2480	Reference	-0.80	-0.80	---	PASS
			30~1000	-0.80	-67.93	≤-20.8	PASS
			1000~26500	-0.80	-45.24	≤-20.8	PASS
2DH5	Ant1	2402	Reference	-5.28	-5.28	---	PASS
			30~1000	-20.01	-67.48	≤-40.01	PASS
			1000~26500	-20.01	-54.2	≤-40.01	PASS
		2441	Reference	-6.41	-6.41	---	PASS
			30~1000	-6.41	-68.21	≤-26.41	PASS
			1000~26500	-6.41	-48.4	≤-26.41	PASS
		2480	Reference	-4.20	-4.20	---	PASS
			30~1000	-4.20	-68.2	≤-24.2	PASS
			1000~26500	-4.20	-46.22	≤-24.2	PASS
3DH5	Ant1	2402	Reference	-3.52	-3.52	---	PASS
			30~1000	-3.52	-68.21	≤-23.52	PASS
			1000~26500	-3.52	-46.49	≤-23.52	PASS
		2441	Reference	-6.37	-6.37	---	PASS
			30~1000	-6.37	-68.11	≤-26.37	PASS
			1000~26500	-6.37	-49.47	≤-26.37	PASS
		2480	Reference	-5.76	-5.76	---	PASS
			30~1000	-5.76	-68.39	≤-25.76	PASS
			1000~26500	-5.76	-48.74	≤-25.76	PASS