

FCC Appendix RF Test Data for BT

FCC ID : 2BSCX-I7

Company : ShenZhen Glasse Technology Co.,Ltd.

EUT : i7 bone conduction headphones

Model Number : i7

Report No. : CTA25082000101

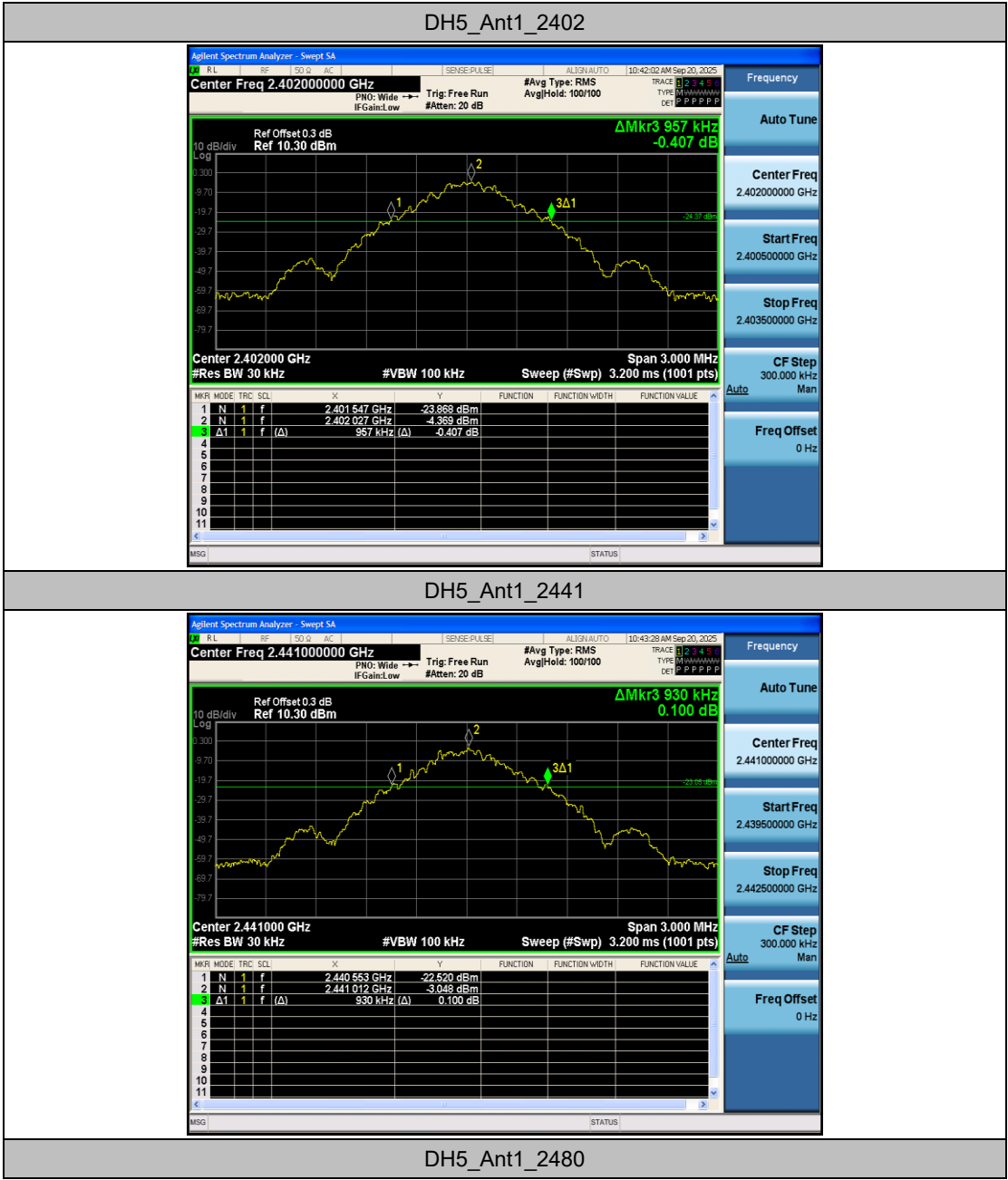
Reviewed By : Eric Wang

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	0.930	2440.553	2441.483	---	---
		2480	0.957	2479.547	2480.504	---	---
2DH5	Ant1	2402	1.278	2401.382	2402.660	---	---
		2441	1.326	2440.346	2441.672	---	---
		2480	1.311	2479.358	2480.669	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

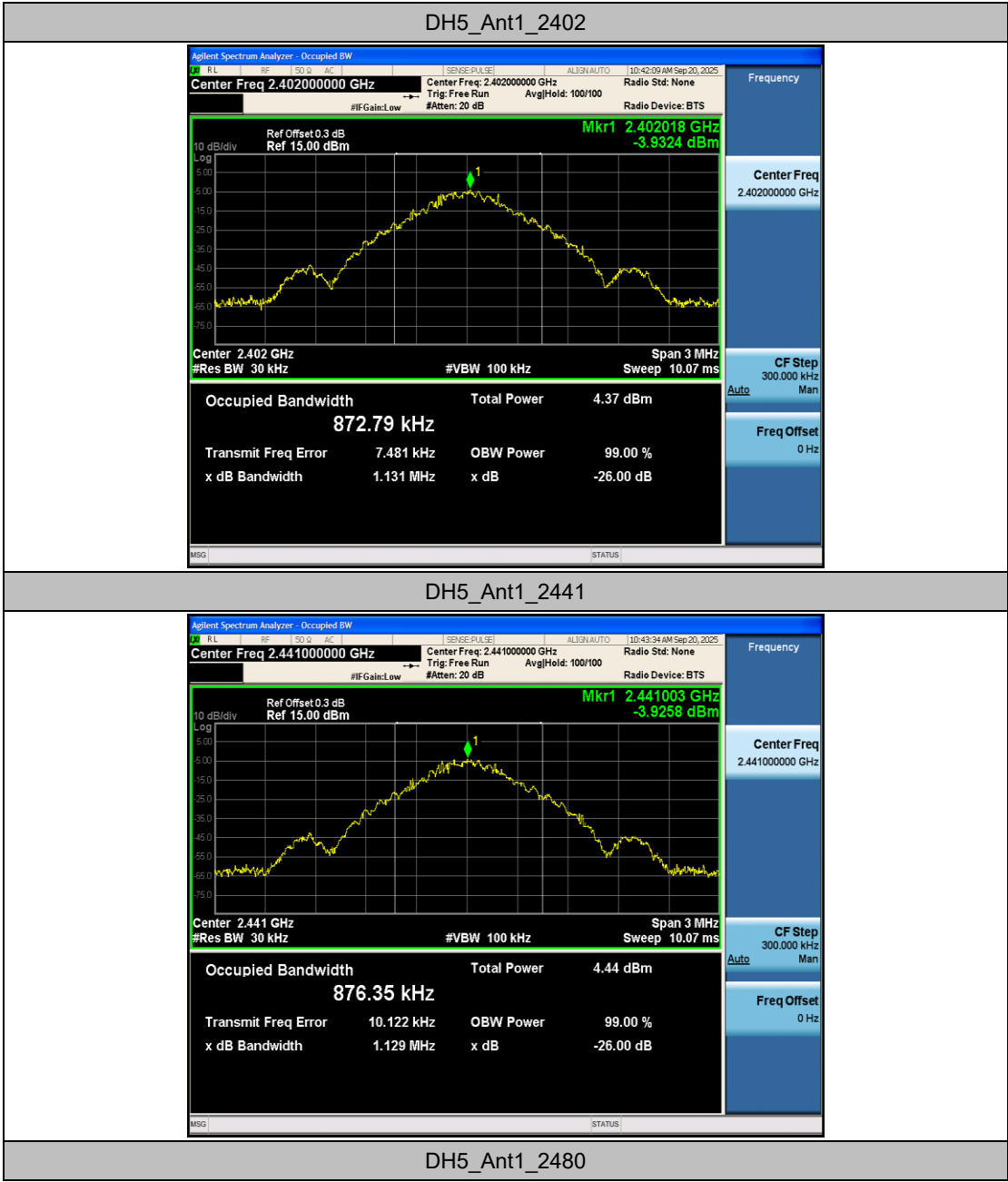


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87279	2401.5711	2402.4439	---	---
		2441	0.87635	2440.5719	2441.4483	---	---
		2480	0.87074	2479.5731	2480.4438	---	---
2DH5	Ant1	2402	1.1842	2401.4173	2402.6015	---	---
		2441	1.1861	2440.4180	2441.6041	---	---
		2480	1.1888	2479.4165	2480.6053	---	---

Test Graphs

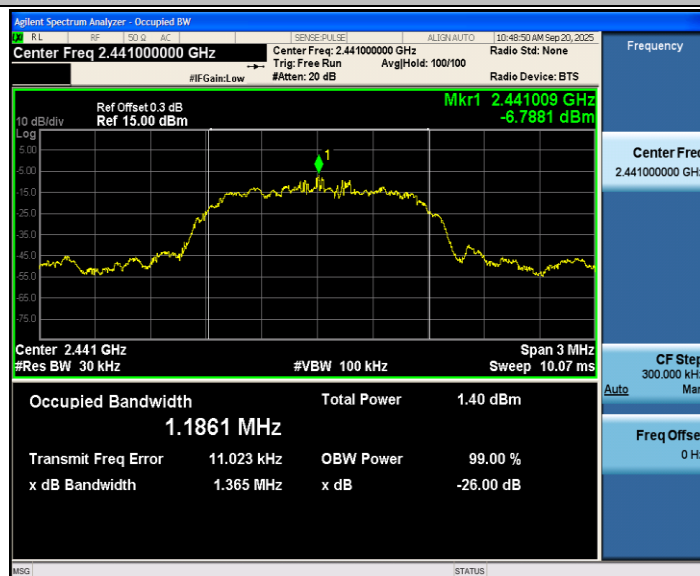




2DH5_Ant1_2402



2DH5_Ant1_2441



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	-1.45	≤ 20.97	PASS
		2441	-1.28	≤ 20.97	PASS
		2480	-0.83	≤ 20.97	PASS
2DH5	Ant1	2402	-2.27	≤ 20.97	PASS
		2441	-2.10	≤ 20.97	PASS
		2480	-1.65	≤ 20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.008	≥ 0.957	PASS
2DH5	Ant1	Hop	1.124	≥ 0.884	PASS

Test Graphs

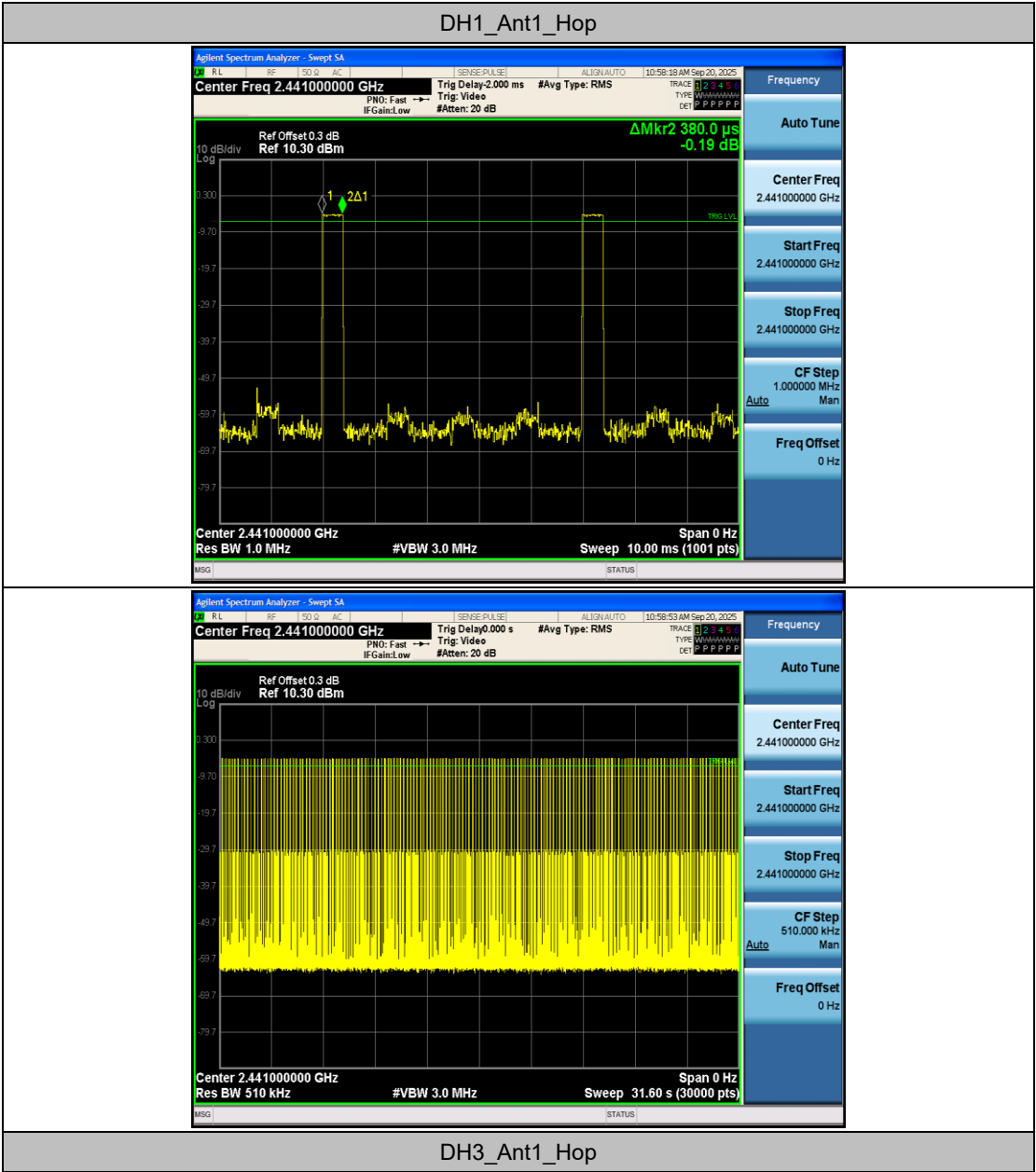


Appendix E: Time of occupancy

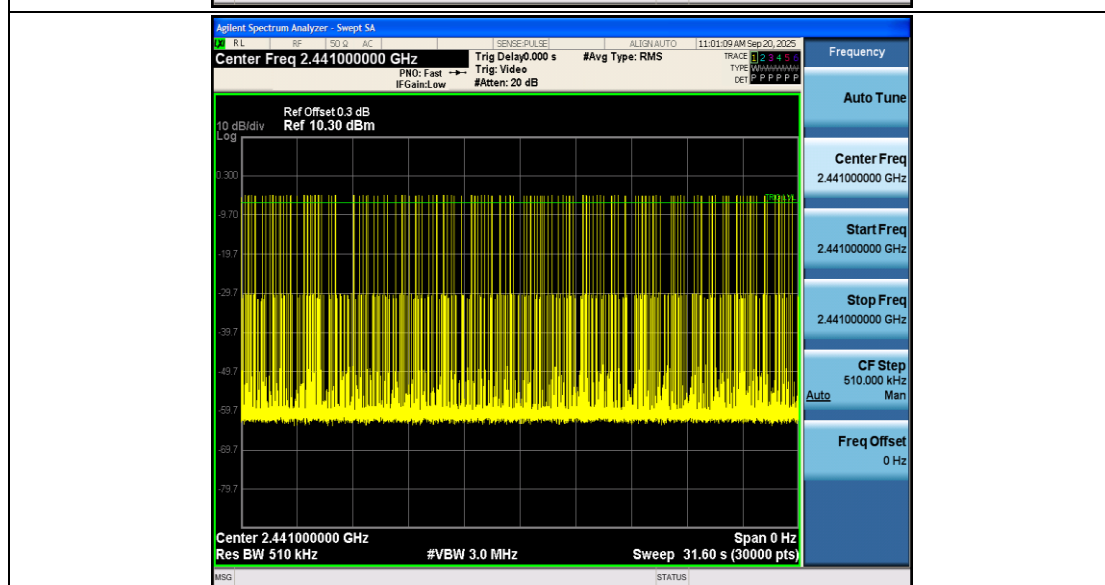
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.380	312	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.650	157	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.890	106	0.306	≤0.4	PASS
2DH1	Ant1	Hop	0.390	318	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.640	153	0.251	≤0.4	PASS
2DH5	Ant1	Hop	2.900	109	0.316	≤0.4	PASS

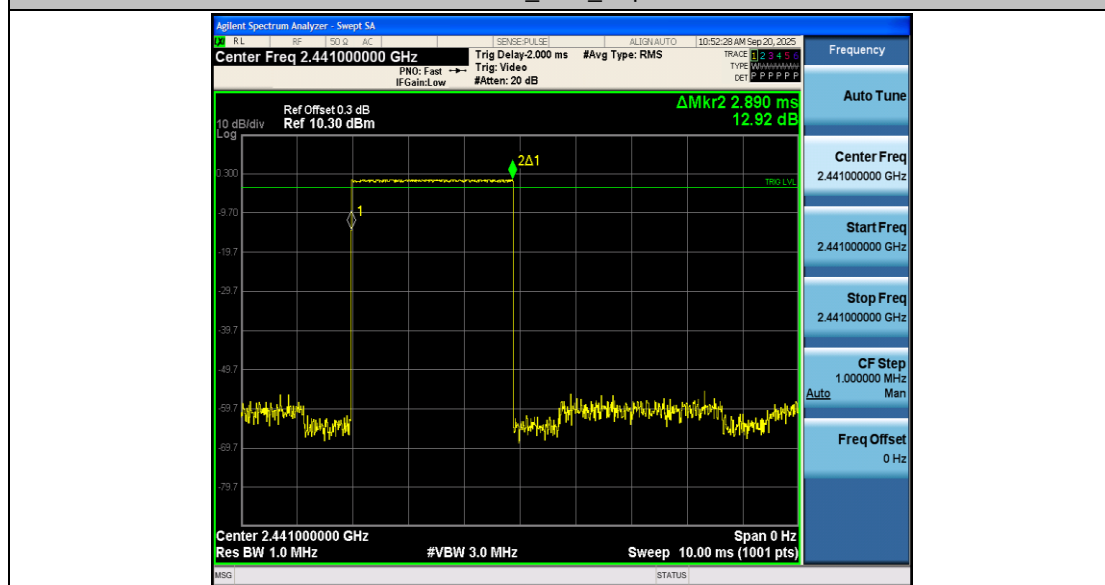
Test Graphs

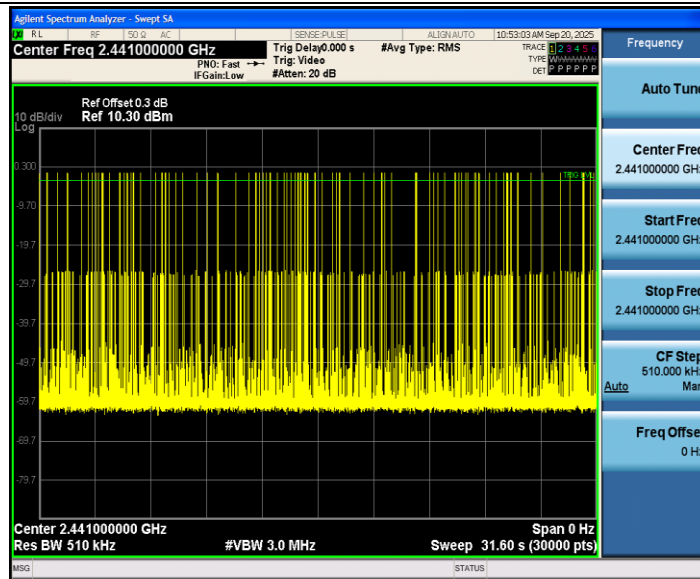


DH3_Ant1_Hop

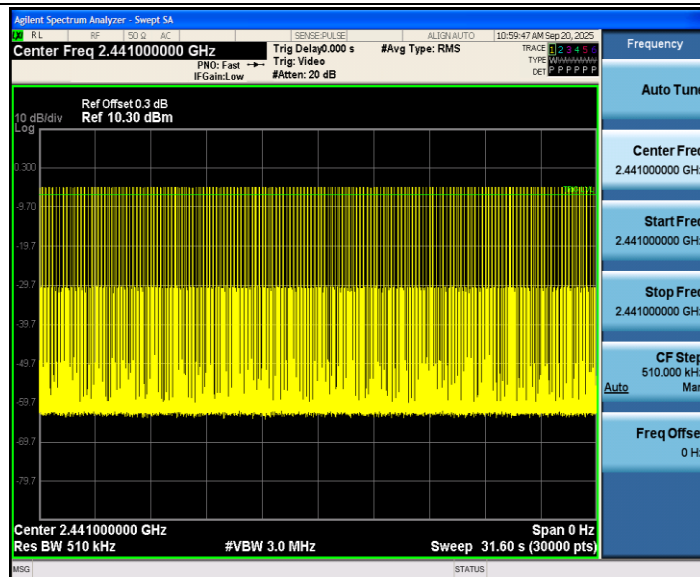
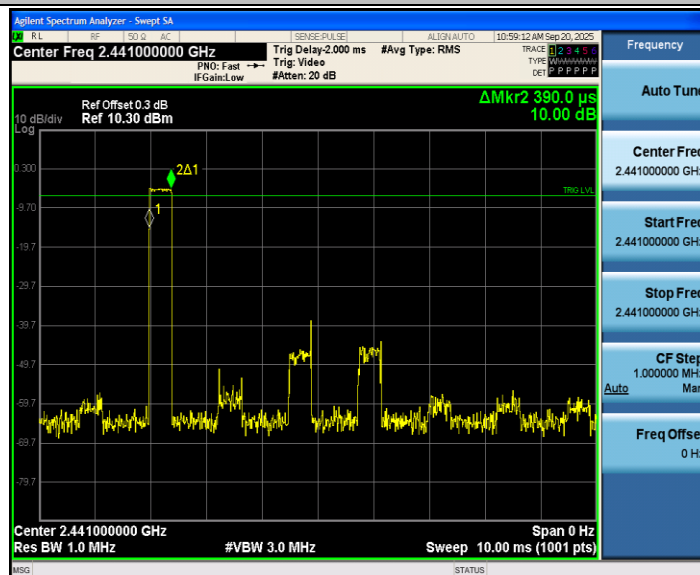


DH5_Ant1_Hop

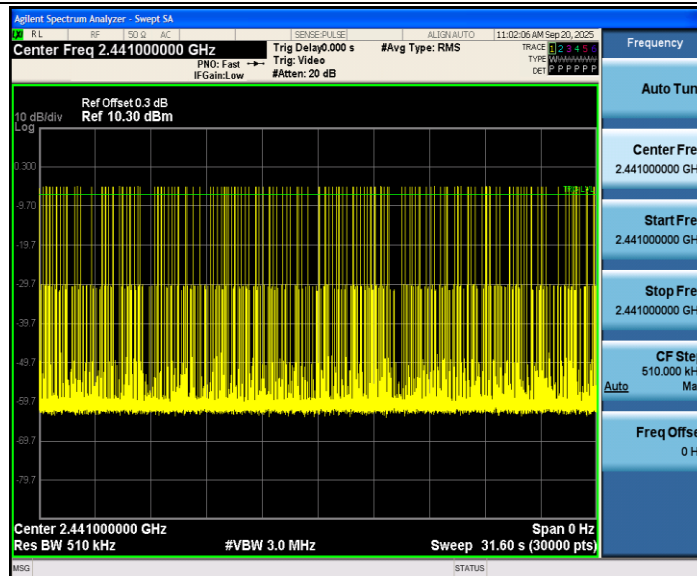
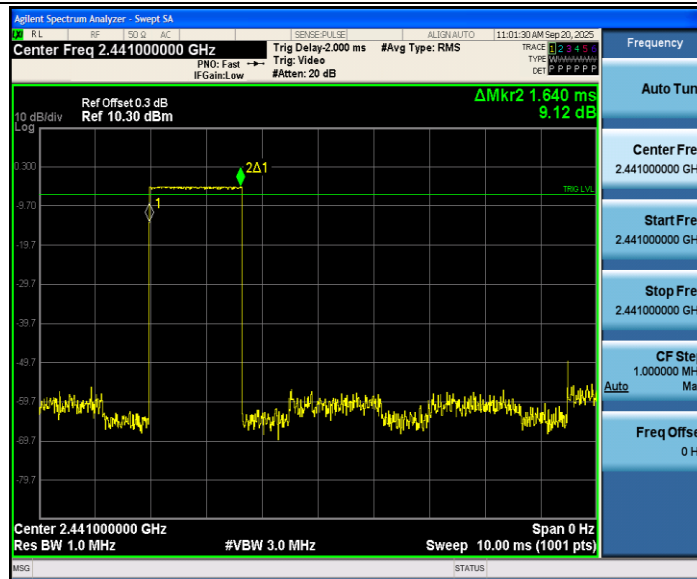




2DH1_Ant1_Hop

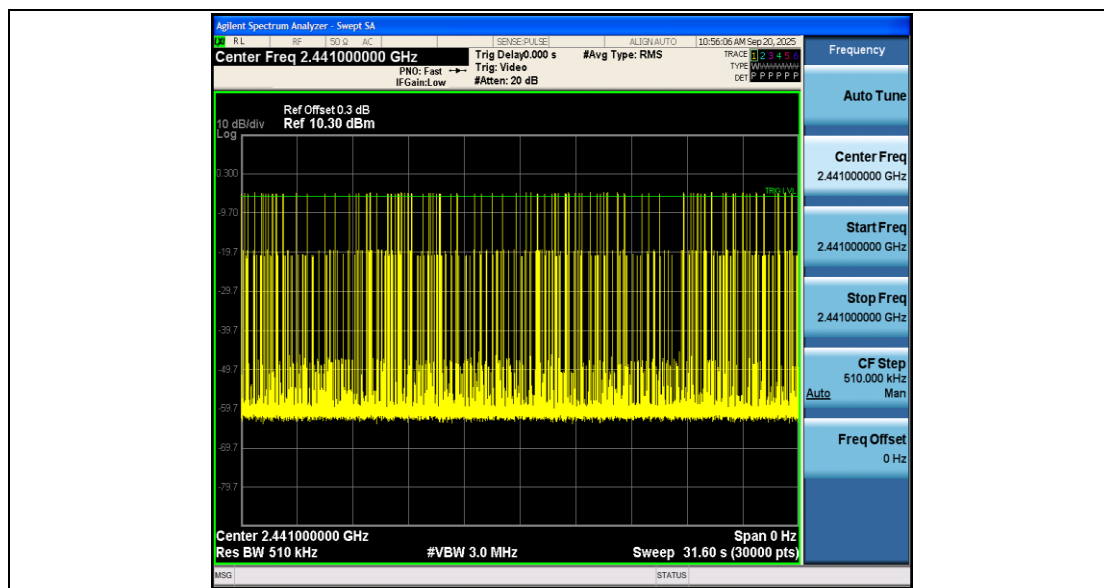


2DH3_Ant1_Hop



2DH5_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

Test Graphs

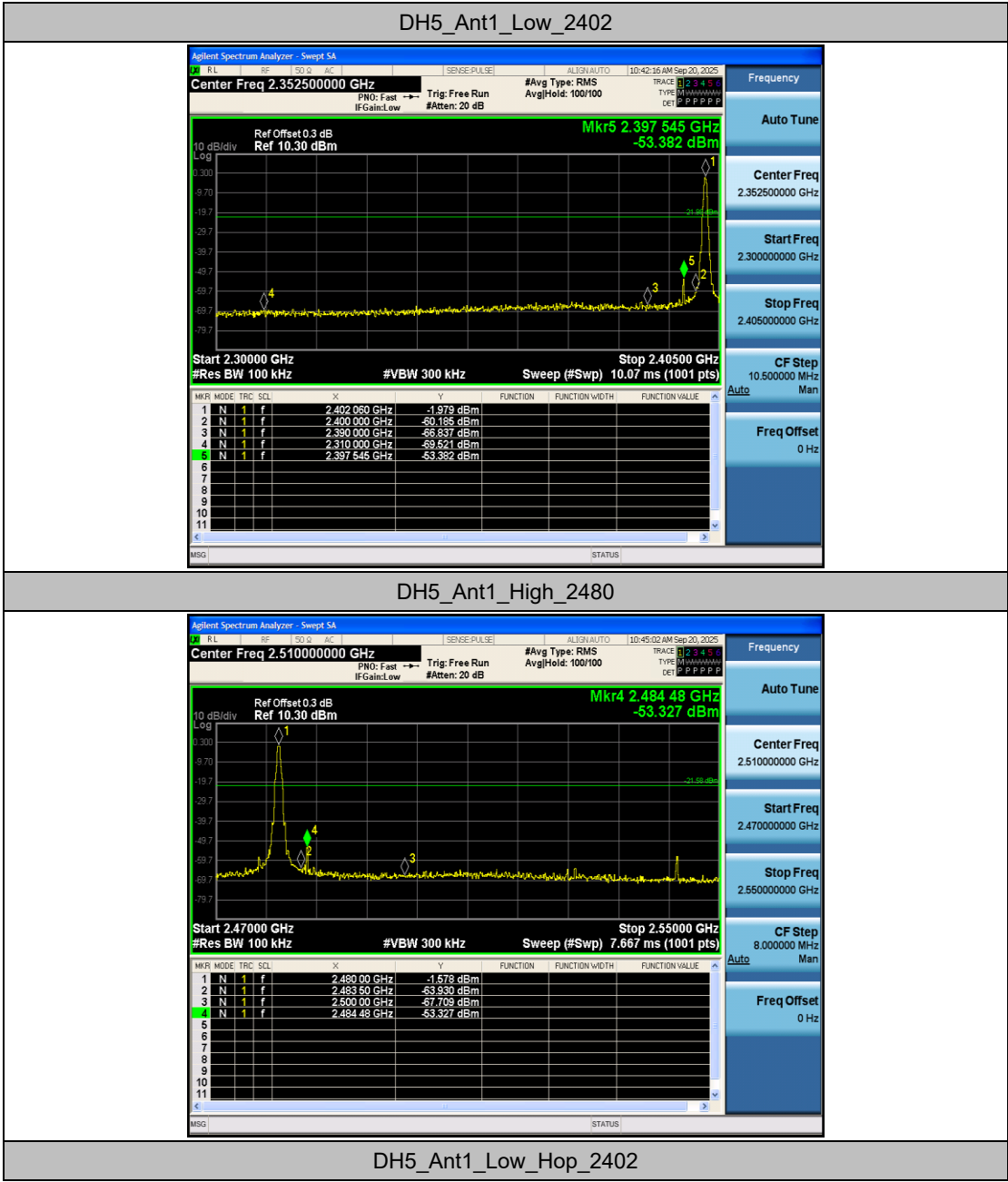


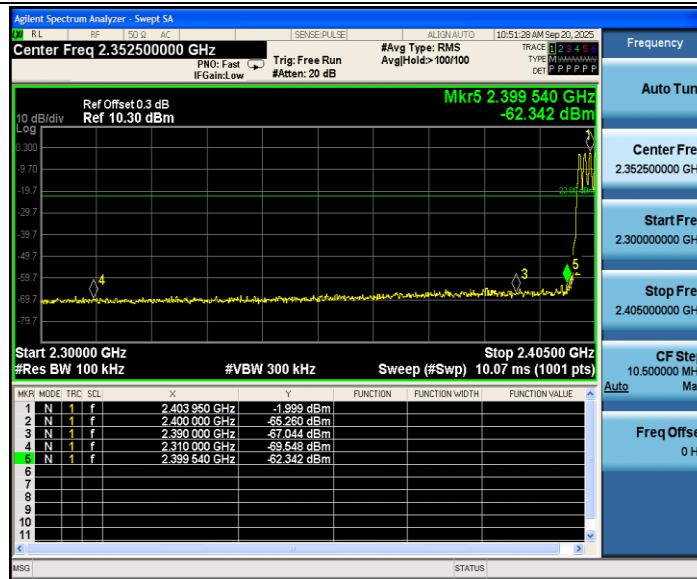
Appendix G: Band edge measurements

Test Result

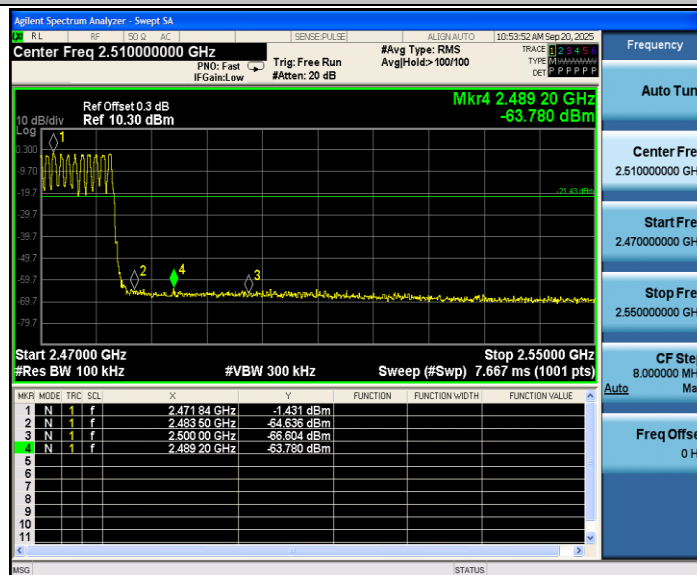
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.98	-53.38	≤-21.98	PASS
		High	2480	-1.58	-53.33	≤-21.58	PASS
		Low	Hop_2402	-2.00	-62.34	≤-22	PASS
		High	Hop_2480	-1.43	-63.78	≤-21.43	PASS
2DH5	Ant1	Low	2402	-5.00	-60.8	≤-25	PASS
		High	2480	-4.48	-64.46	≤-24.48	PASS
		Low	Hop_2402	-4.99	-63.76	≤-24.99	PASS
		High	Hop_2480	-4.64	-56.2	≤-24.64	PASS

Test Graphs

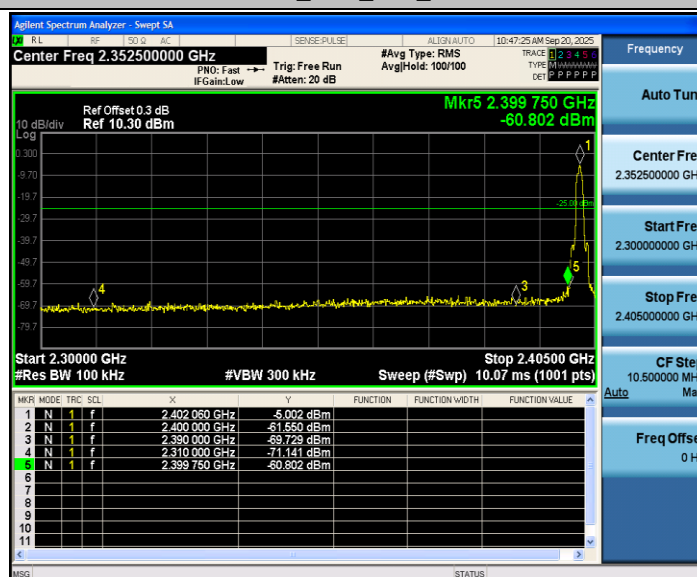




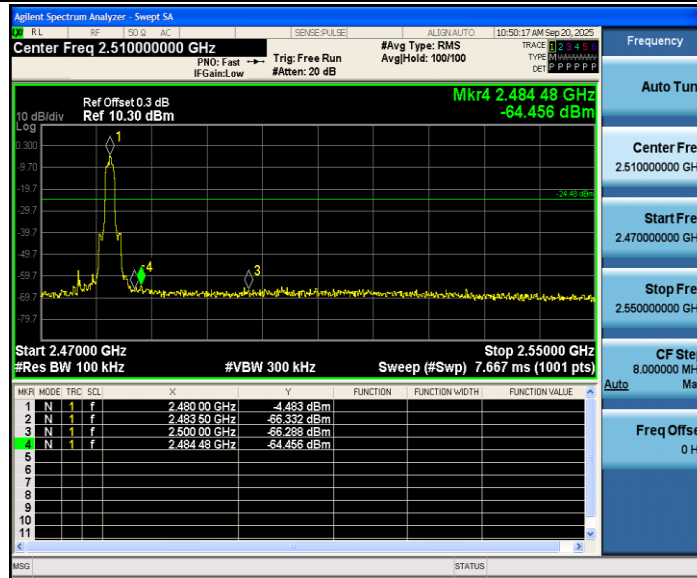
DH5_Ant1_High_Hop_2480



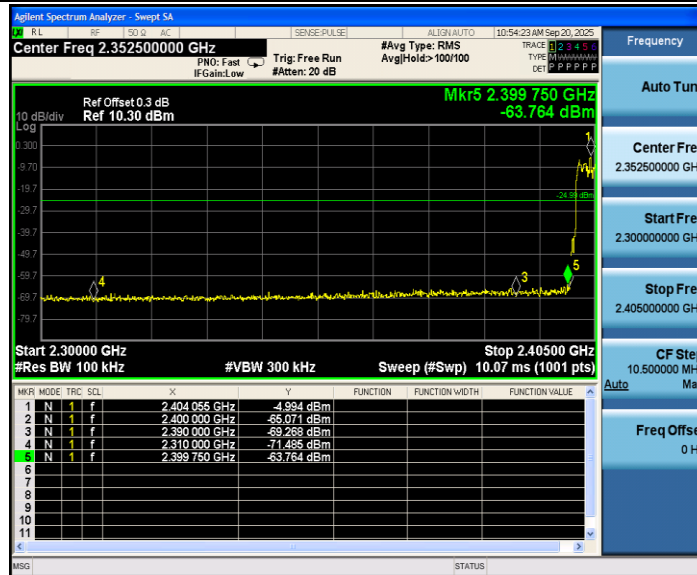
2DH5_Ant1_Low_2402



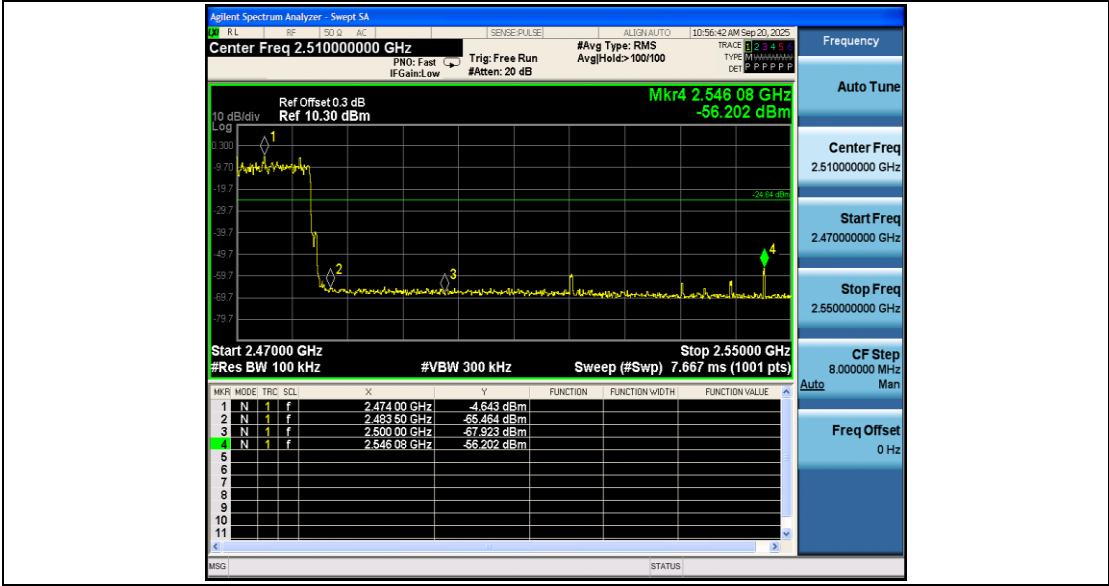
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

Test Result

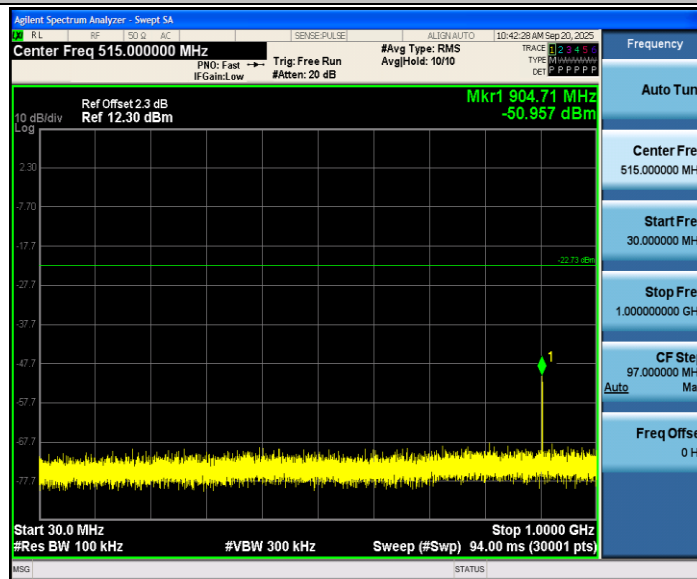
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-2.73	-2.73	---	PASS
			30~1000	-2.73	-50.96	≤-22.73	PASS
			1000~26500	-2.73	-43.25	≤-22.73	PASS
		2441	Reference	-2.47	-2.47	---	PASS
			30~1000	-2.47	-64.41	≤-22.47	PASS
			1000~26500	-2.47	-43.43	≤-22.47	PASS
		2480	Reference	-2.05	-2.05	---	PASS
			30~1000	-2.05	-67.86	≤-22.05	PASS
			1000~26500	-2.05	-44.98	≤-22.05	PASS
2DH5	Ant1	2402	Reference	-4.89	-4.89	---	PASS
			30~1000	-4.89	-67.63	≤-24.89	PASS
			1000~26500	-4.89	-49.18	≤-24.89	PASS
		2441	Reference	-6.32	-6.32	---	PASS
			30~1000	-6.32	-68.19	≤-26.32	PASS
			1000~26500	-6.32	-49.77	≤-26.32	PASS
		2480	Reference	-5.98	-5.98	---	PASS
			30~1000	-5.98	-68.14	≤-25.98	PASS
			1000~26500	-5.98	-48.67	≤-25.98	PASS

Test Graphs

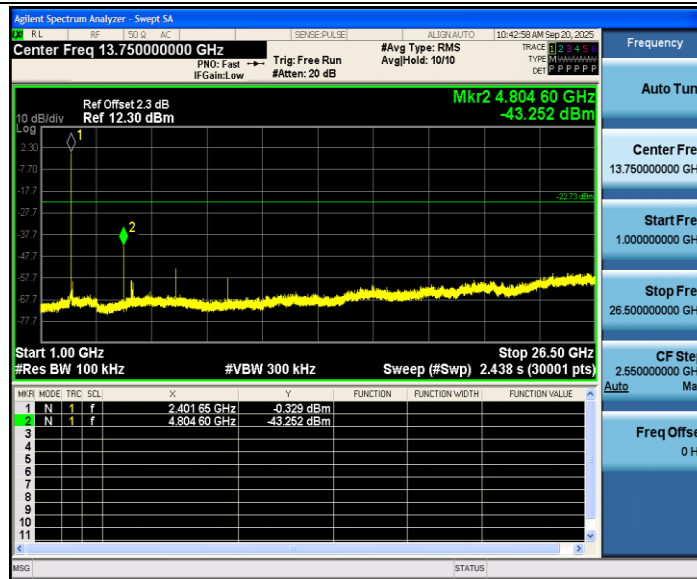
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



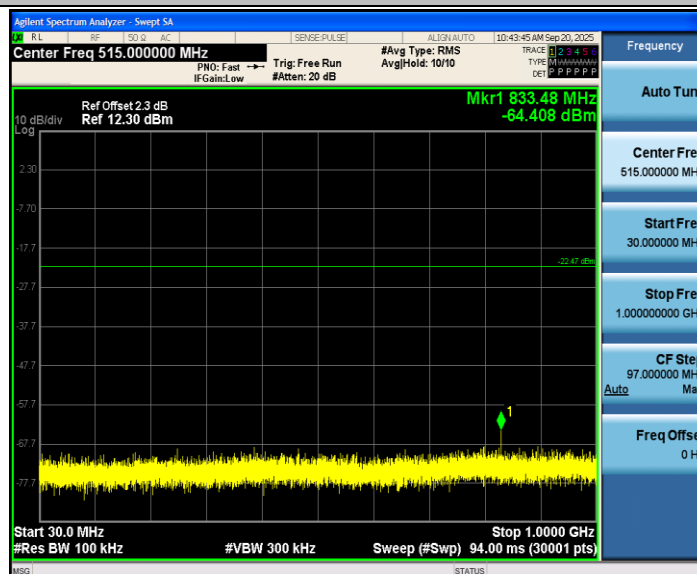
DH5_Ant1_2402_1000~26500



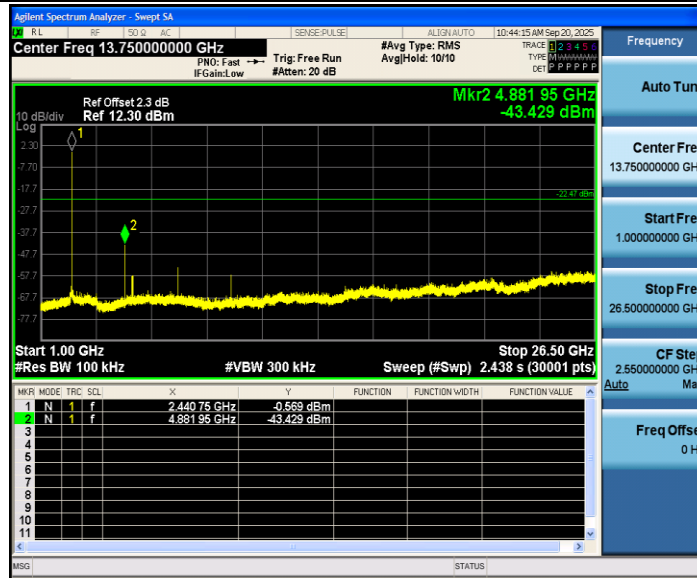
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



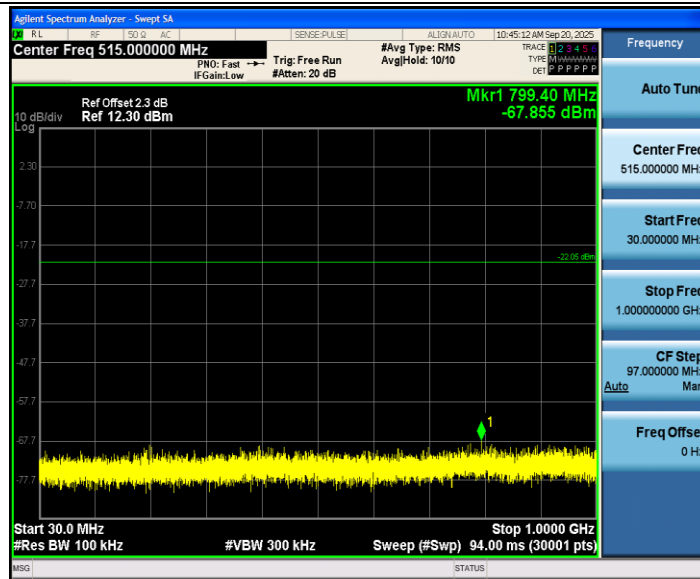
DH5_Ant1_2441_1000~26500



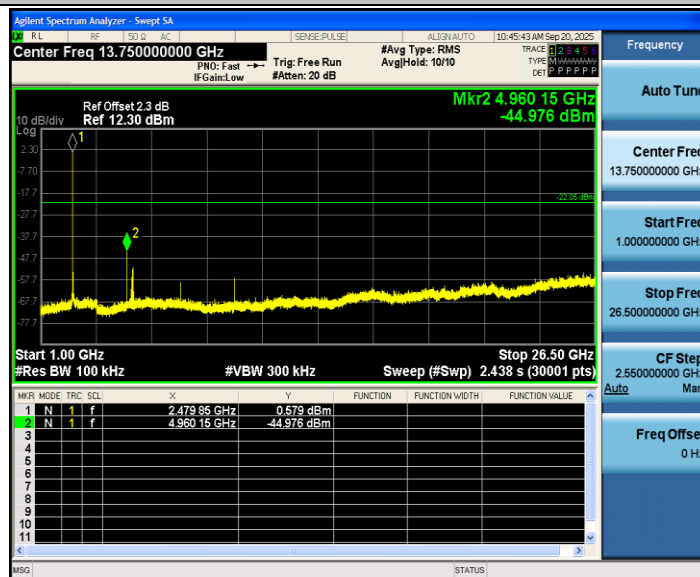
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



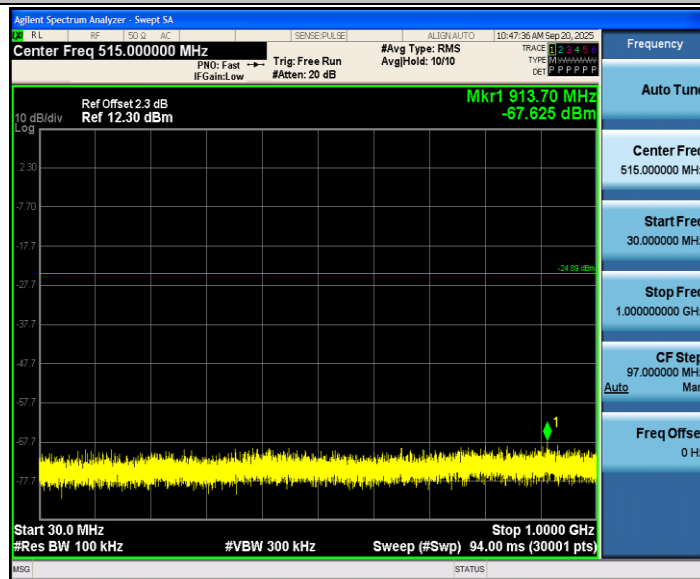
DH5_Ant1_2480_1000~26500



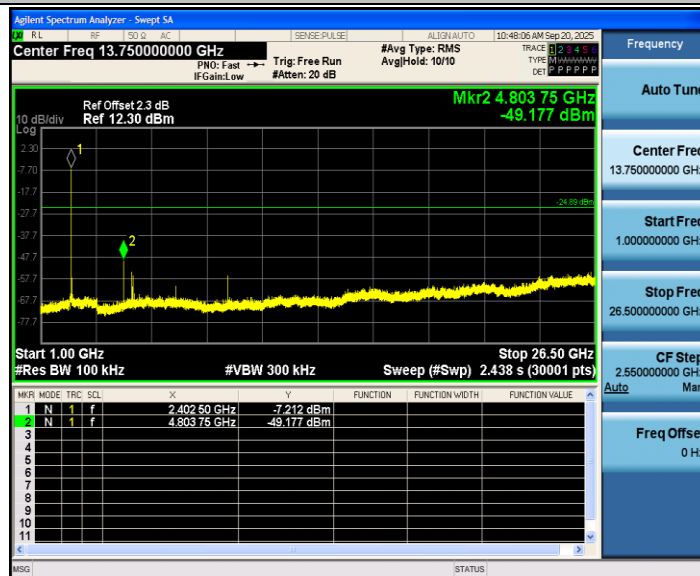
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



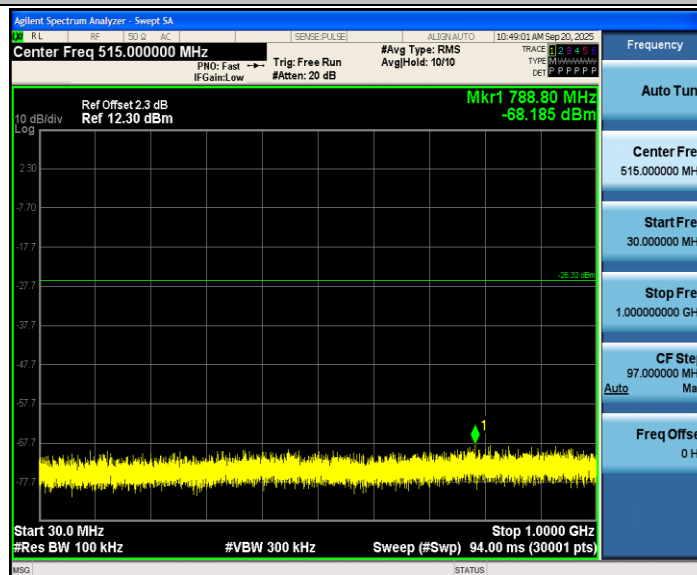
2DH5_Ant1_2402_1000~26500



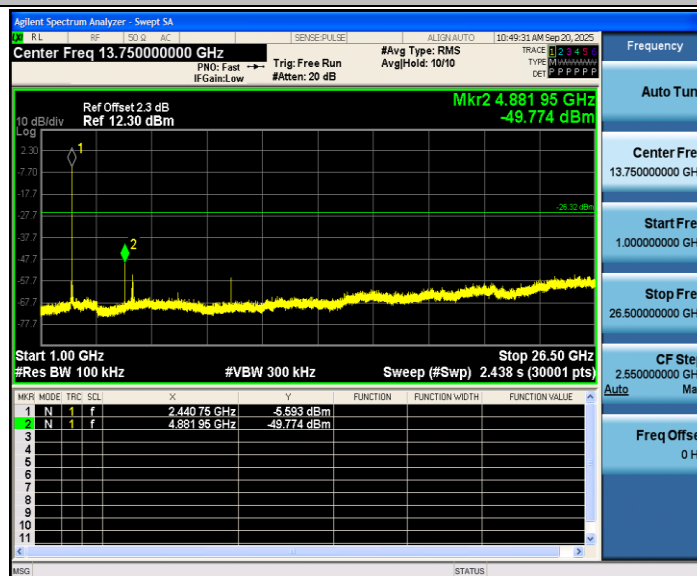
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



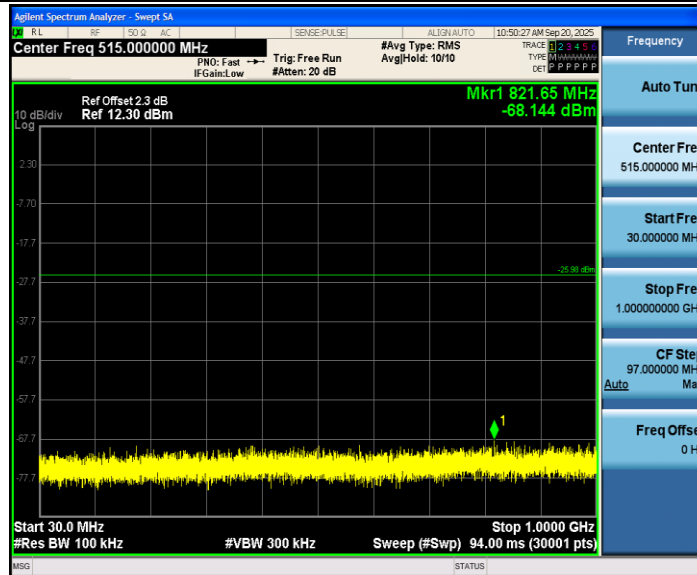
2DH5_Ant1_2441_1000~26500



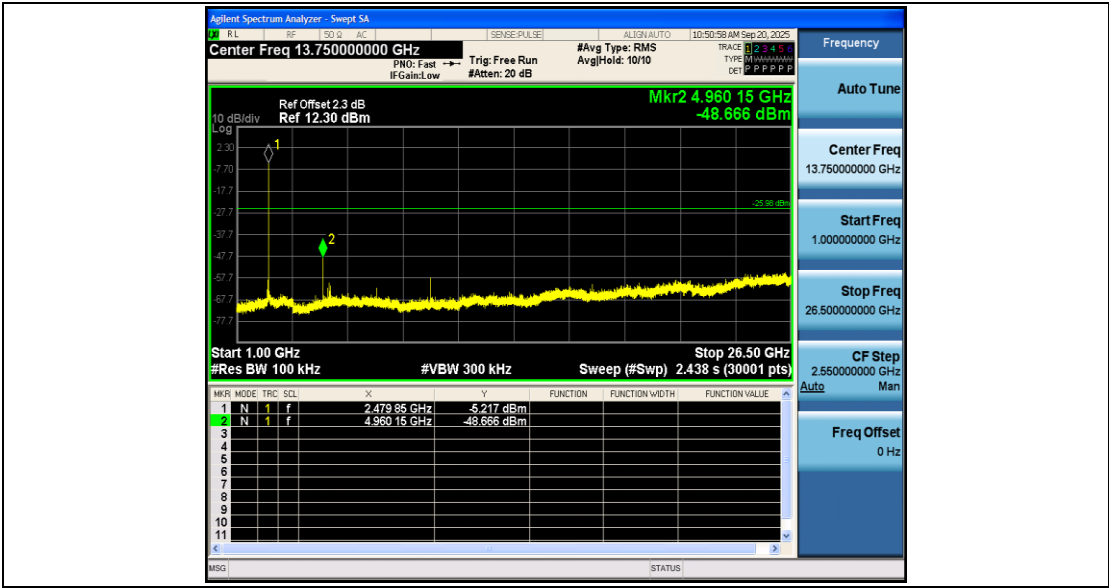
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500



Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.92	3.75	77.87	1.09	---	---

The figure displays two screenshots of an Agilent Spectrum Analyzer interface, showing signal traces for different antennas.

Screenshot 1: DH5_Ant1_2402

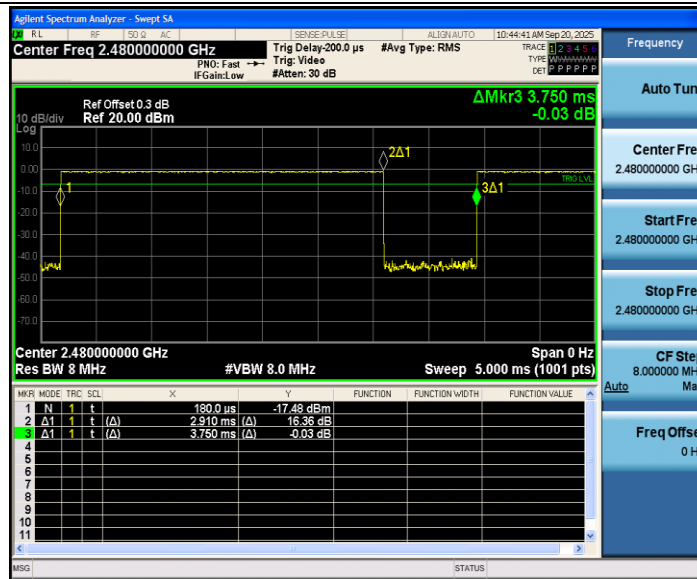
- Center Freq:** 2.402000000 GHz
- Ref Offset:** 0.3 dB
- Ref:** 20.00 dBm
- Trig Delay:** 200.0 μs
- Avg Type:** RMS
- Trace:** 2, 3, 4, 5
- Type:** WWWWAAAAA
- DET:** P P P P P
- IF Gain:** Low
- #Atten:** 30 dB
- ΔMkr3:** 3.750 ms, 0.41 dB
- Center Freq:** 2.402000000 GHz
- Res BW:** 8 MHz
- #VBW:** 8.0 MHz
- Sweep:** 5.000 ms (1001 pts)
- Span:** 0 Hz
- CF Step:** 8.000000 MHz
- Freq Offset:** 0 Hz

MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t		-20.01 dBm			
2	Δ1	1	t	(Δ)	2.920 ms (Δ)	-24.93 dB		
3	Δ1	1	t	(Δ)	3.750 ms (Δ)	0.41 dB		

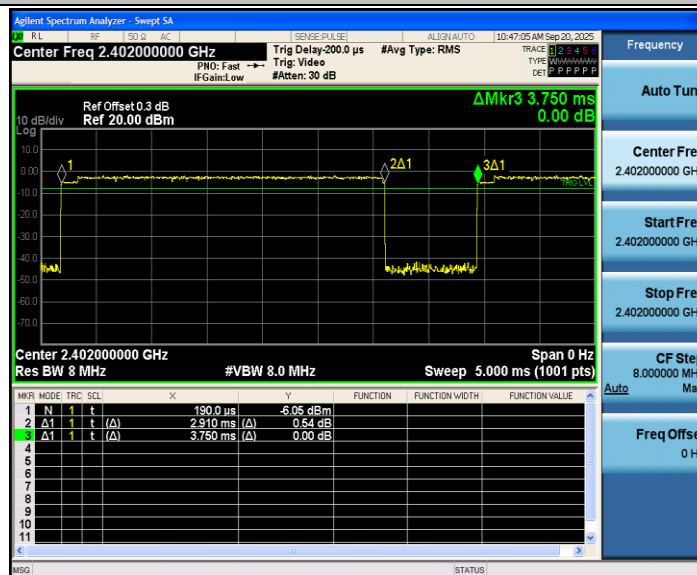
Screenshot 2: DH5_Ant1_2441

- Center Freq:** 2.441000000 GHz
- Ref Offset:** 0.3 dB
- Ref:** 20.00 dBm
- Trig Delay:** 200.0 μs
- Avg Type:** RMS
- Trace:** 2, 3, 4, 5
- Type:** WWWWAAAAA
- DET:** P P P P P
- IF Gain:** Low
- #Atten:** 30 dB
- ΔMkr3:** 3.750 ms, 0.03 dB
- Center Freq:** 2.441000000 GHz
- Res BW:** 8 MHz
- #VBW:** 8.0 MHz
- Sweep:** 5.000 ms (1001 pts)
- Span:** 0 Hz
- CF Step:** 8.000000 MHz
- Freq Offset:** 0 Hz

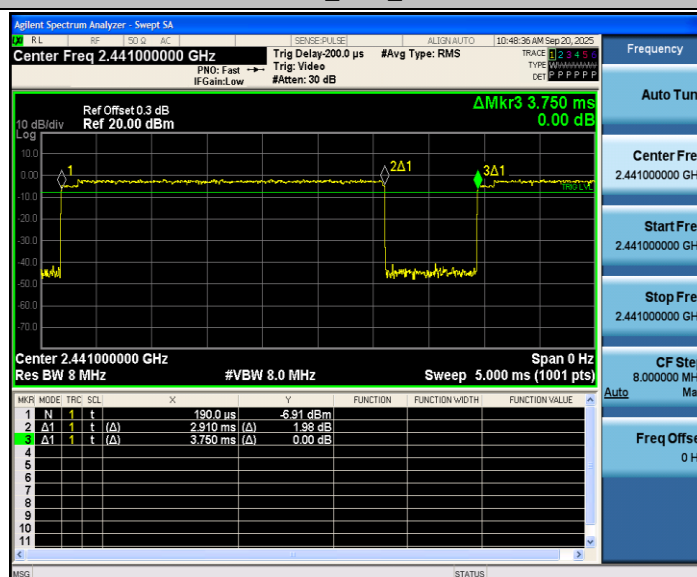
MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t		-4.87 dBm			
2	Δ1	1	t	(Δ)	2.910 ms (Δ)	-39.65 dB		
3	Δ1	1	t	(Δ)	3.750 ms (Δ)	0.03 dB		



2D H5_Ant1_2402



2D H5_Ant1_2441



2DH5_Ant1_2480

