FCC Appendix RF Test Data for BT

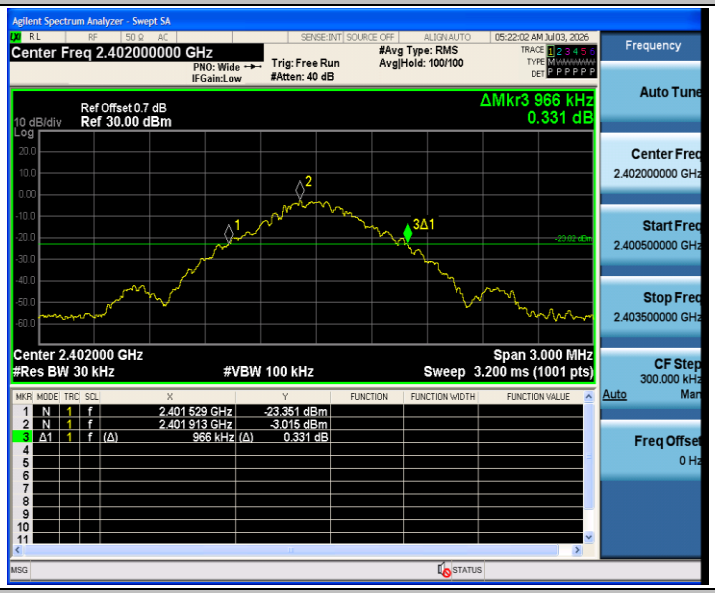
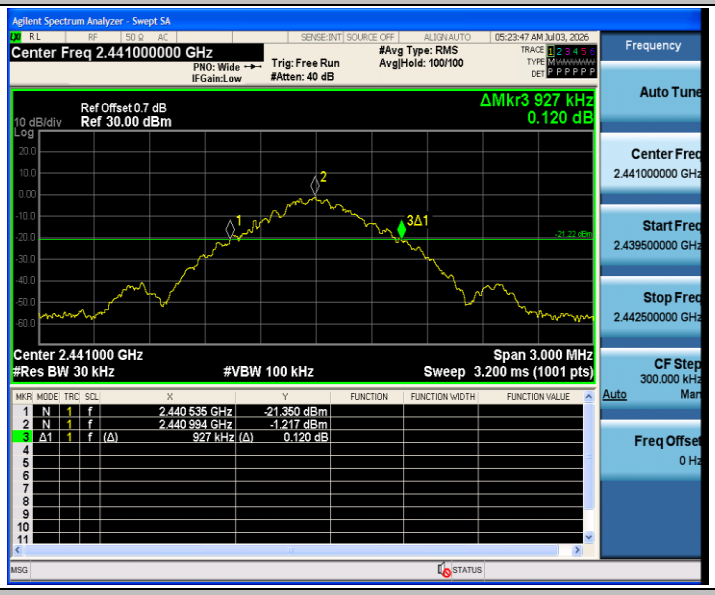
FCC ID	**:**	**2BGRLT06**
Company	**:**	**Shenzhen Weikang JuLi Intelligent Technology Co., Ltd**
EUT	**:**	**WIRELESS KARAOKE SPEAKER**
Model Number	**:**	**T06**
Report No.	**:**	**CTA26062602201**
Reviewed By	**:**	**Eric Wang**

Appendix A: 20dB Emission Bandwidth

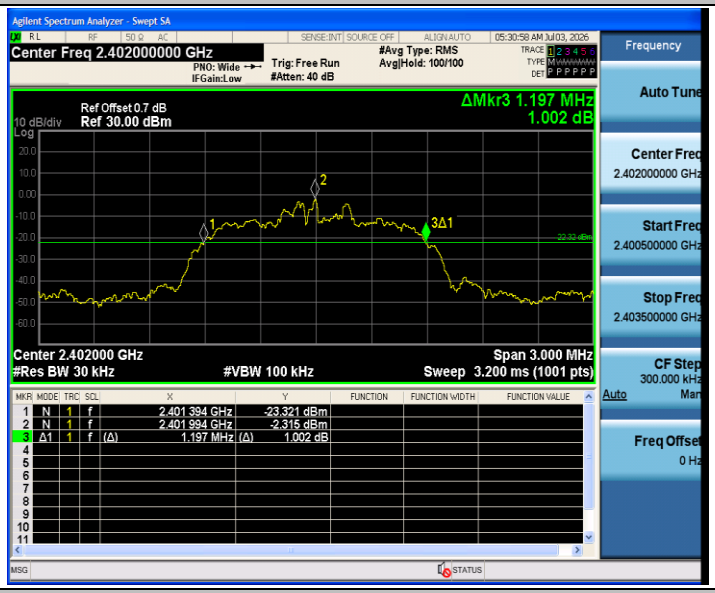
Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.966	2401.529	2402.495	---	---
		2441	0.927	2440.535	2441.462	---	---
		2480	1.023	2479.472	2480.495	---	---
2DH5	Ant1	2402	1.197	2401.394	2402.591	---	---
		2441	1.260	2440.373	2441.633	---	---
		2480	1.194	2479.403	2480.597	---	---
3DH5	Ant1	2402	1.272	2401.358	2402.630	---	---
		2441	1.203	2440.409	2441.612	---	---
		2480	1.239	2479.373	2480.612	---	---

Test Graphs

DH5_Ant1_2402

DH5_Ant1_2441

DH5_Ant1_2480

2DH5_Ant1_2402



2DH5_Ant1_2441

2DH5_Ant1_2480
3DH5_Ant1_2402
3DH5_Ant1_2441

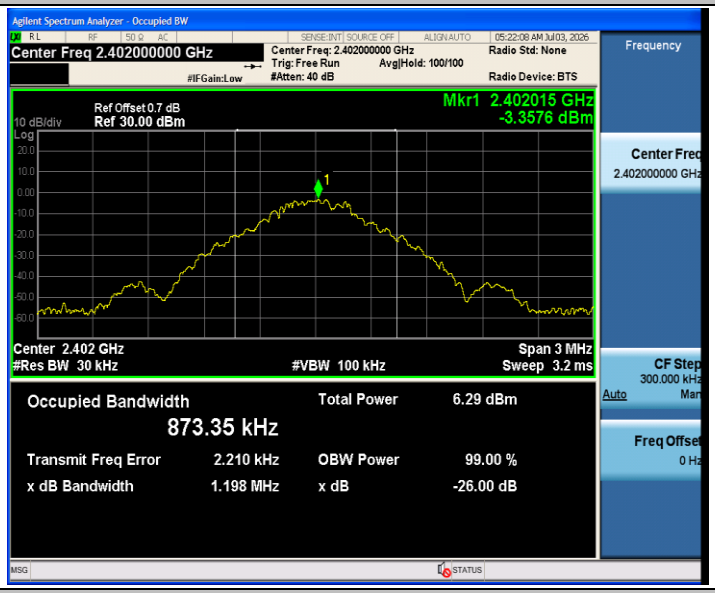
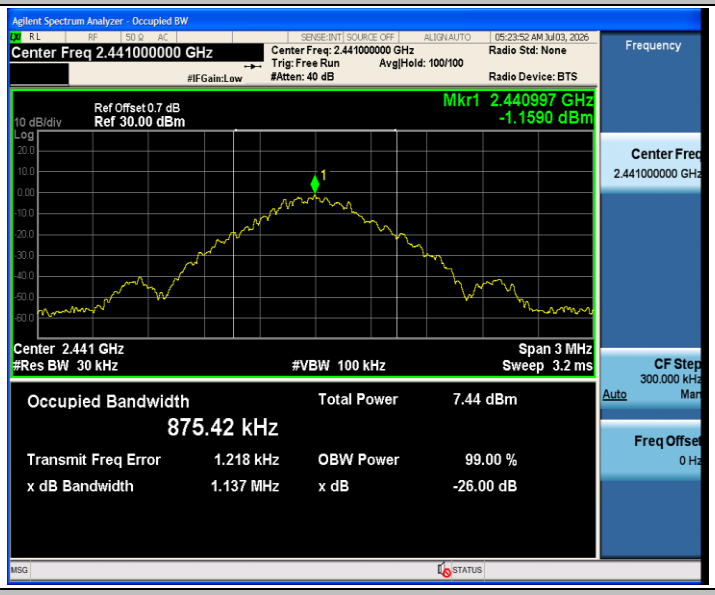
3DH5_Ant1_2480

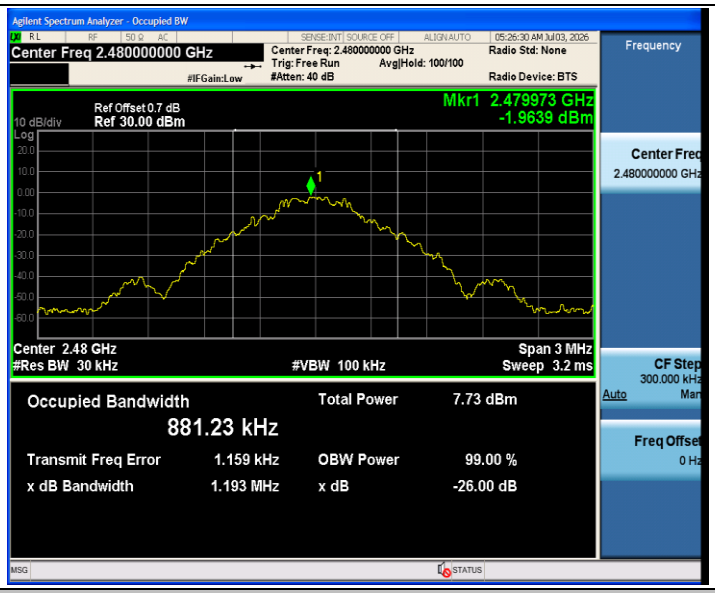
Appendix B: Occupied Channel Bandwidth

Test Result

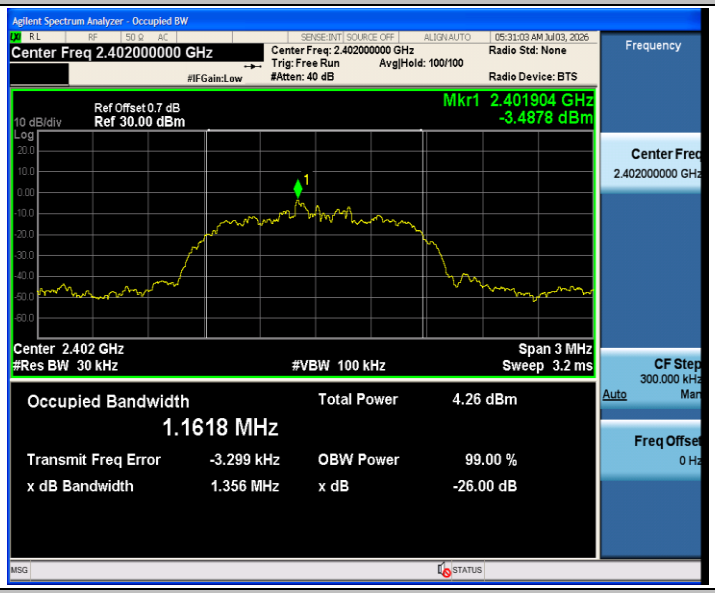
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87335	2401.5655	2402.4389	---	---
		2441	0.87542	2440.5635	2441.4389	---	---
		2480	0.88123	2479.5605	2480.4418	---	---
2DH5	Ant1	2402	1.1618	2401.4158	2402.5776	---	---
		2441	1.1706	2440.4128	2441.5834	---	---
		2480	1.1428	2479.4228	2480.5656	---	---
3DH5	Ant1	2402	1.1619	2401.4189	2402.5808	---	---
		2441	1.1501	2440.4278	2441.5779	---	---
		2480	1.1668	2479.4195	2480.5863	---	---

Test Graphs

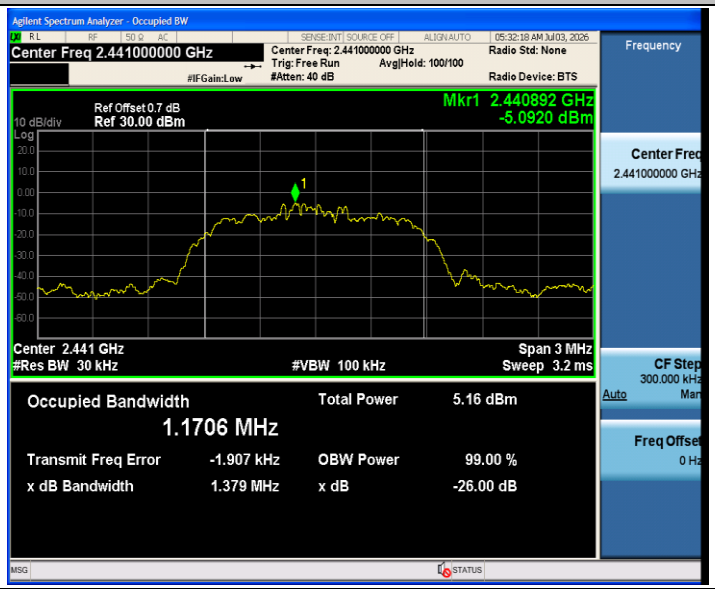
DH5_Ant1_2402

DH5_Ant1_2441

DH5_Ant1_2480

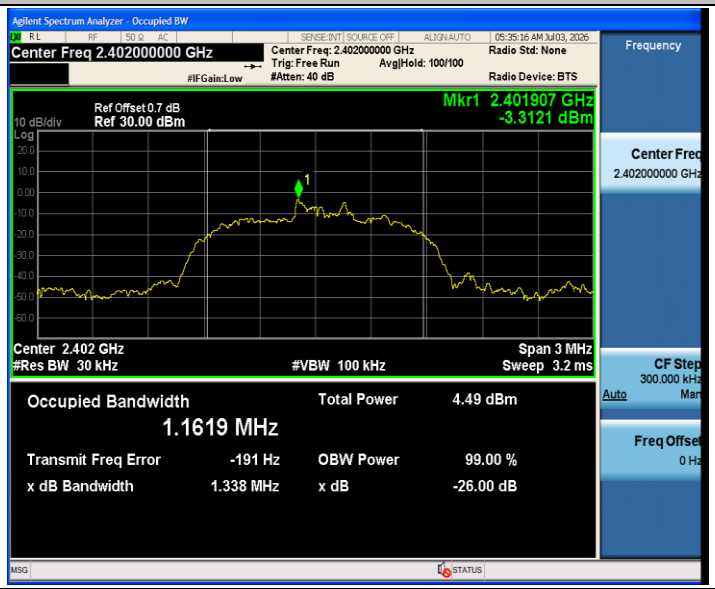


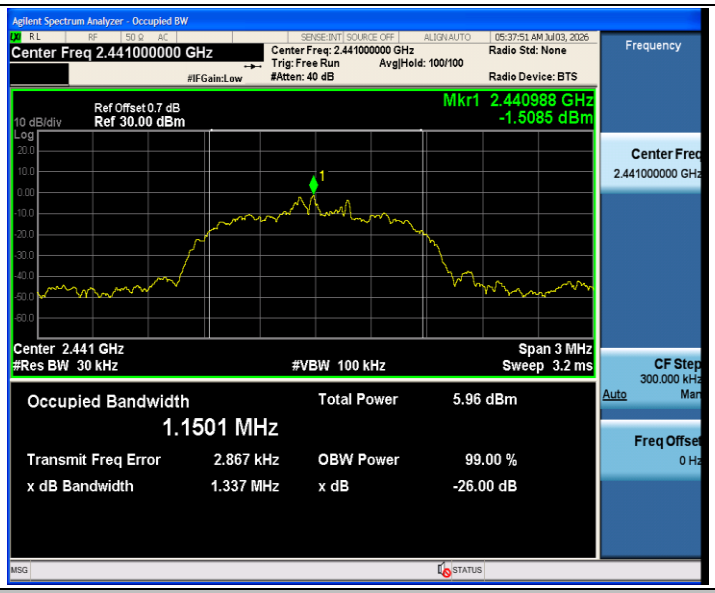
2DH5_Ant1_2402



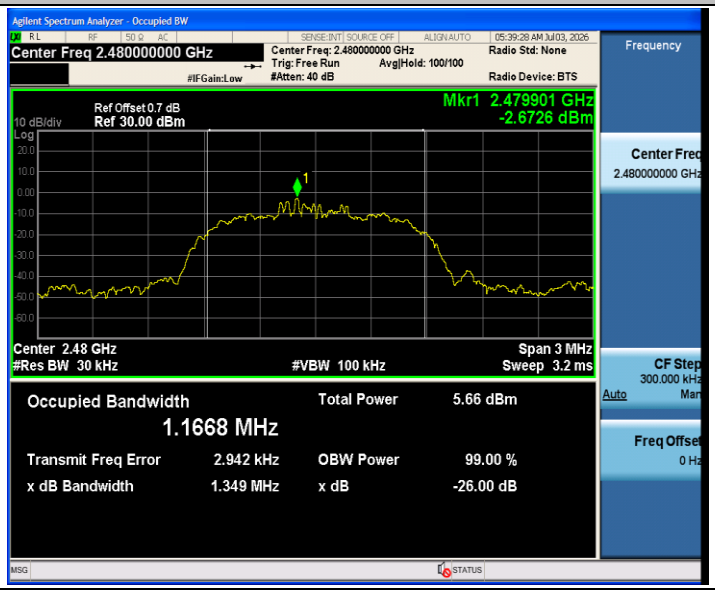
2DH5_Ant1_2441



2DH5_Ant1_2480
3DH5_Ant1_2402

3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

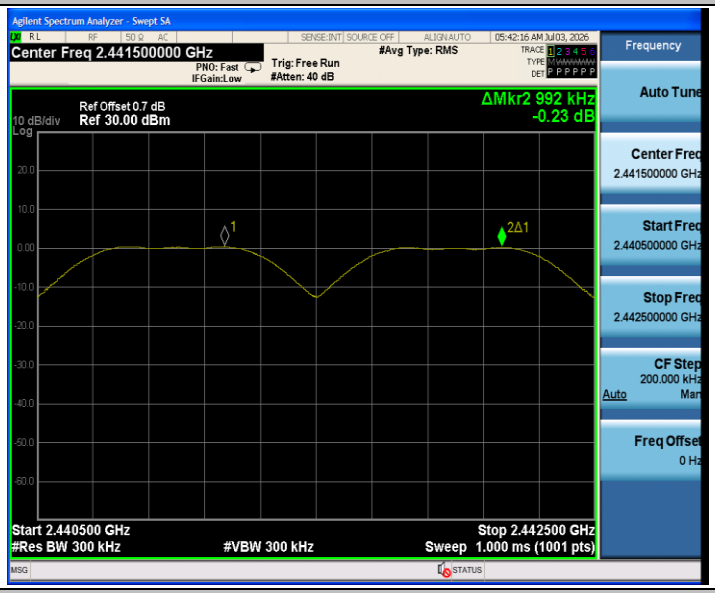
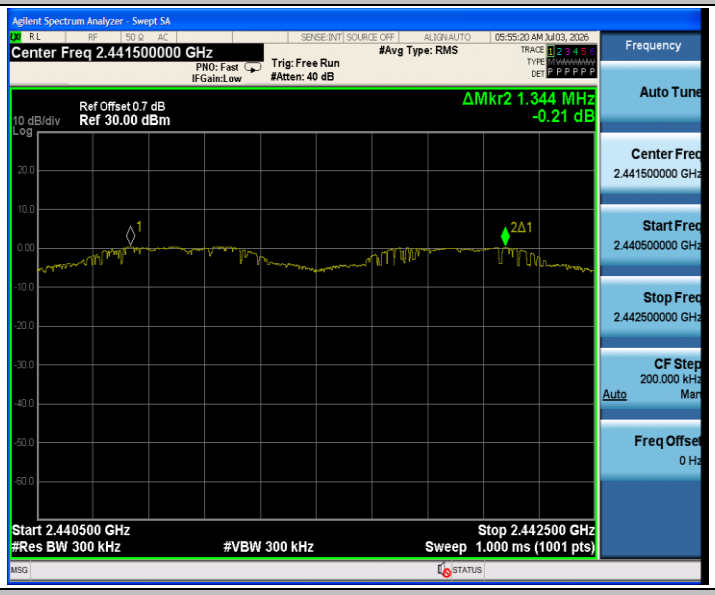
Test Mode	Antenna	Freq(MHz)	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.46	≤20.97	PASS
		2441	0.52	≤20.97	PASS
		2480	0.86	≤20.97	PASS
2DH5	Ant1	2402	-0.50	≤20.97	PASS
		2441	0.54	≤20.97	PASS
		2480	0.79	≤20.97	PASS
3DH5	Ant1	2402	-0.50	≤20.97	PASS
		2441	0.54	≤20.97	PASS
		2480	0.96	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.992	≥0.682	PASS
2DH5	Ant1	Hop	1.344	≥1.260	PASS
3DH5	Ant1	Hop	0.994	≥0.848	PASS

Test Graphs

DH5_Ant1_Hop

2DH5_Ant1_Hop

3DH5_Ant1_Hop

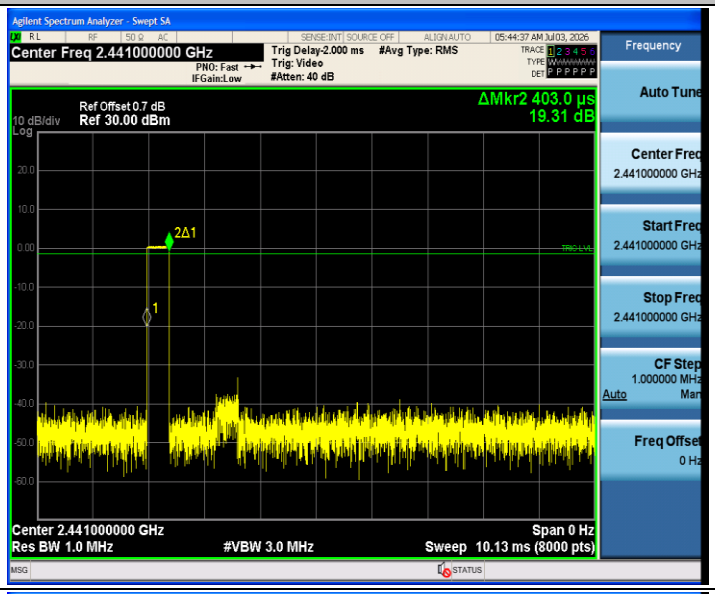
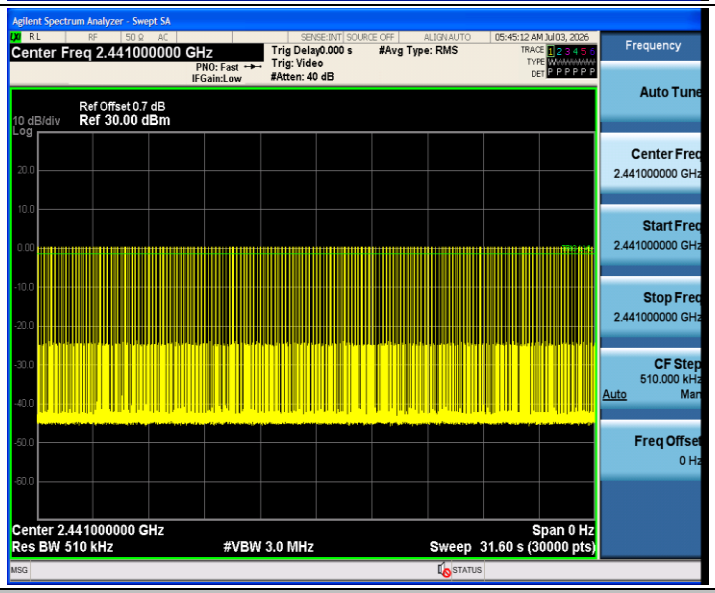
Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441500000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
#Avg Type: RMS
06:02:16 AM Jul 03, 2026
Ref Offset 0.7 dB
10 dB/div
Log
Ref 30.00 dBm
ΔMkr2 994 kHz
-0.24 dB
Start 2.440500 GHz
#Res BW 300 kHz
#VBW 300 kHz
Stop 2.442500 GHz
Sweep 1.000 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.441500000 GHz
Start Freq
2.440500000 GHz
Stop Freq
2.442500000 GHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

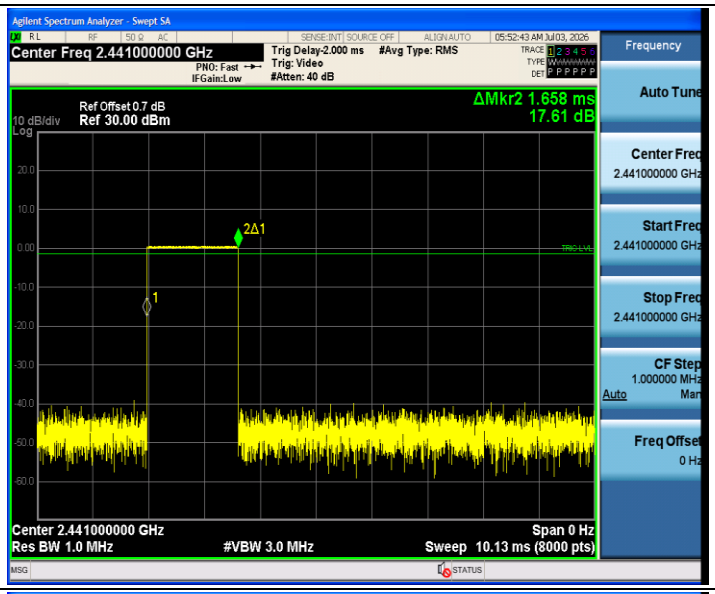
Appendix E: Time of occupancy

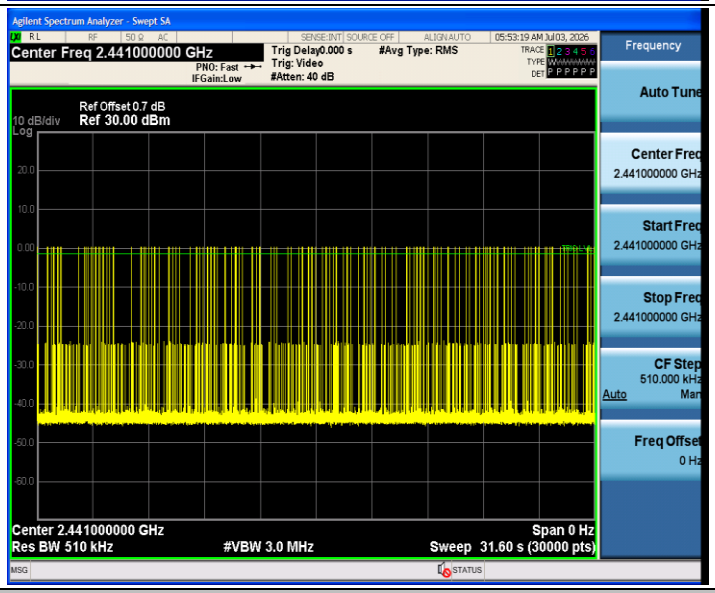
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.403	314	0.127	≤0.4	PASS
DH3	Ant1	Hop	1.658	150	0.249	≤0.4	PASS
DH5	Ant1	Hop	2.906	105	0.305	≤0.4	PASS
2DH1	Ant1	Hop	0.413	316	0.131	≤0.4	PASS
2DH3	Ant1	Hop	1.664	156	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.912	96	0.28	≤0.4	PASS
3DH1	Ant1	Hop	0.413	319	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.663	155	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.912	101	0.294	≤0.4	PASS

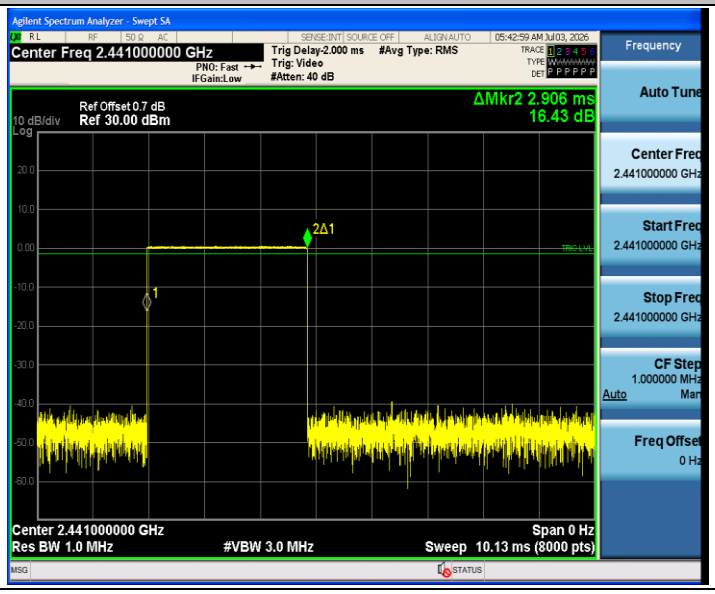
Test Graphs

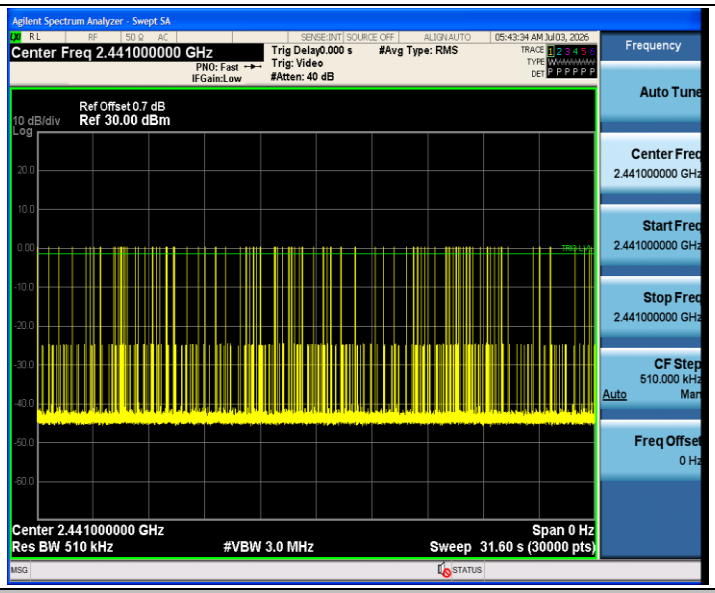
DH1_Ant1_Hop


DH3_Ant1_Hop


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441000000 GHz
PNO: Fast
IFGain:Low
Trig Delay-2.000 ms
Trig: Video
#Avg Type: RMS
#Atten: 40 dB
05:52:43 AM Jul 03, 2026
Ref Offset 0.7 dB
10 dB/div
Ref 30.00 dBm
ΔMkr2 1.658 ms
17.61 dB
Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz
Span 0 Hz
Sweep 10.13 ms (8000 pts)
Frequency
Auto Tune
Center Freq
2.441000000 GHz
Start Freq
2.441000000 GHz
Stop Freq
2.441000000 GHz
CF Step
1.000000 MHz
Auto
Freq Offset
0 Hz

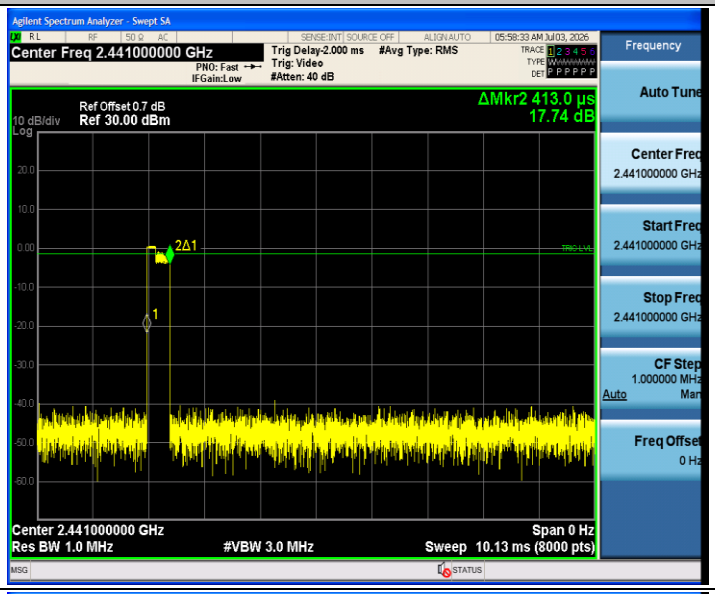

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441000000 GHz
PNO: Fast
IFGain:Low
Trig Delay0.000 s
Trig: Video
#Avg Type: RMS
#Atten: 40 dB
05:53:19 AM Jul 03, 2026
Ref Offset 0.7 dB
10 dB/div
Ref 30.00 dBm
Center 2.441000000 GHz
Res BW 510 kHz
#VBW 3.0 MHz
Span 0 Hz
Sweep 31.60 s (30000 pts)
Frequency
Auto Tune
Center Freq
2.441000000 GHz
Start Freq
2.441000000 GHz
Stop Freq
2.441000000 GHz
CF Step
510.000 kHz
Auto
Freq Offset
0 Hz

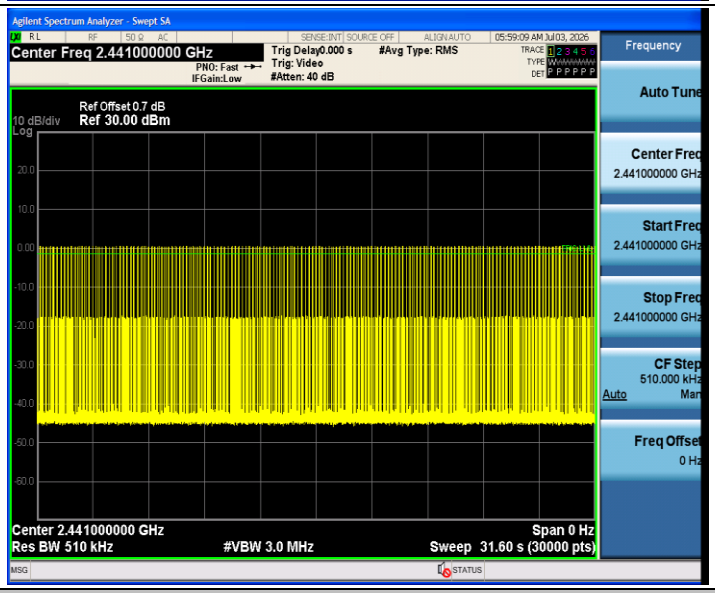
DH5_Ant1_Hop


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441000000 GHz
PNO: Fast
IFGain:Low
Trig Delay-2.000 ms
Trig: Video
#Avg Type: RMS
#Atten: 40 dB
05:42:59 AM Jul 03, 2026
Ref Offset 0.7 dB
10 dB/div
Ref 30.00 dBm
ΔMkr2 2.906 ms
16.43 dB
Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz
Span 0 Hz
Sweep 10.13 ms (8000 pts)
Frequency
Auto Tune
Center Freq
2.441000000 GHz
Start Freq
2.441000000 GHz
Stop Freq
2.441000000 GHz
CF Step
1.000000 MHz
Auto
Freq Offset
0 Hz

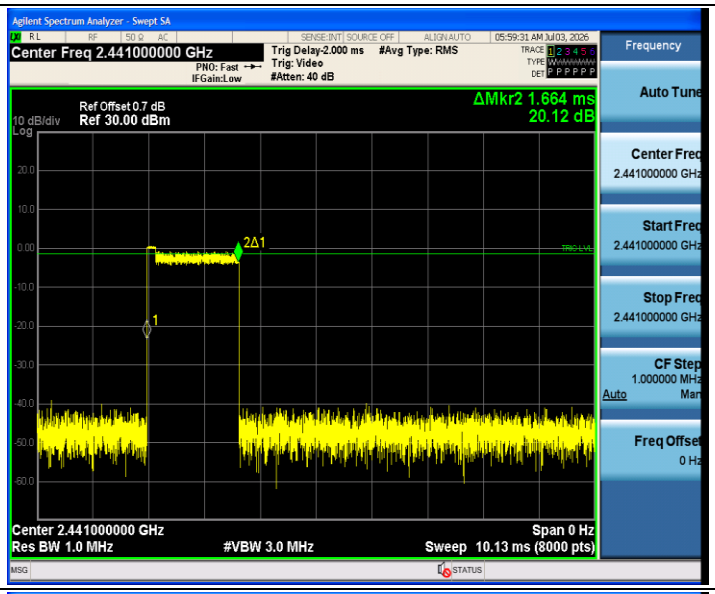


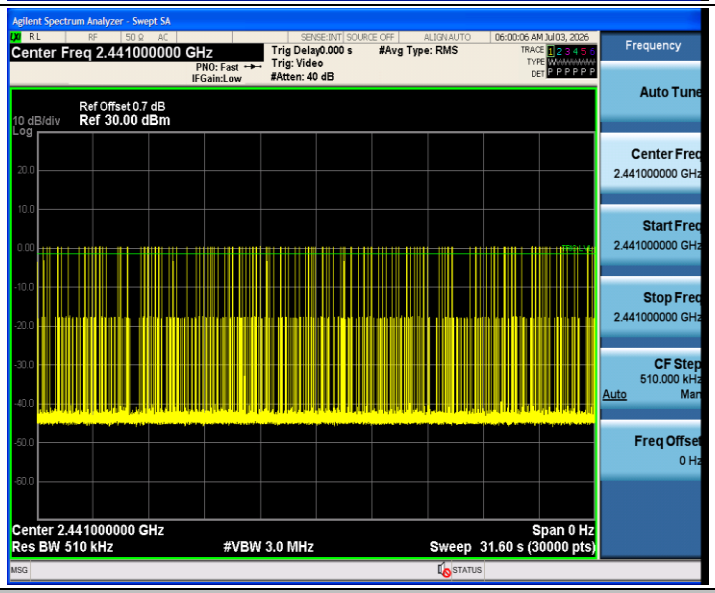
2DH1_Ant1_Hop



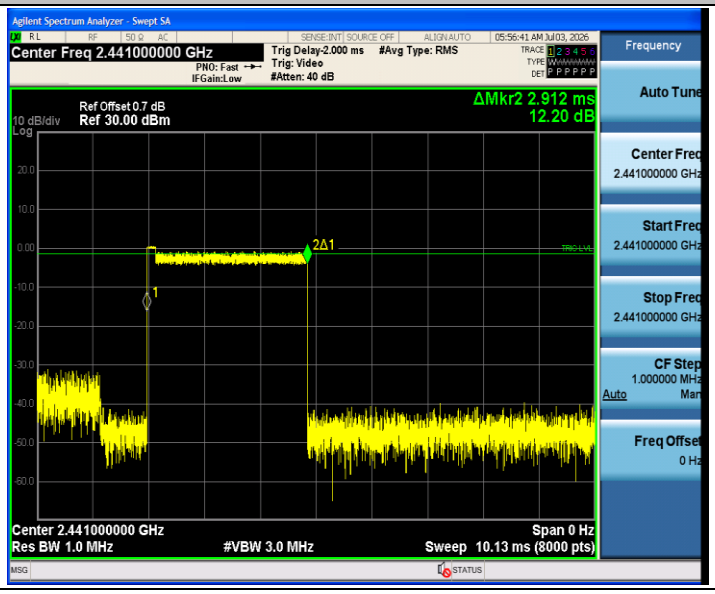


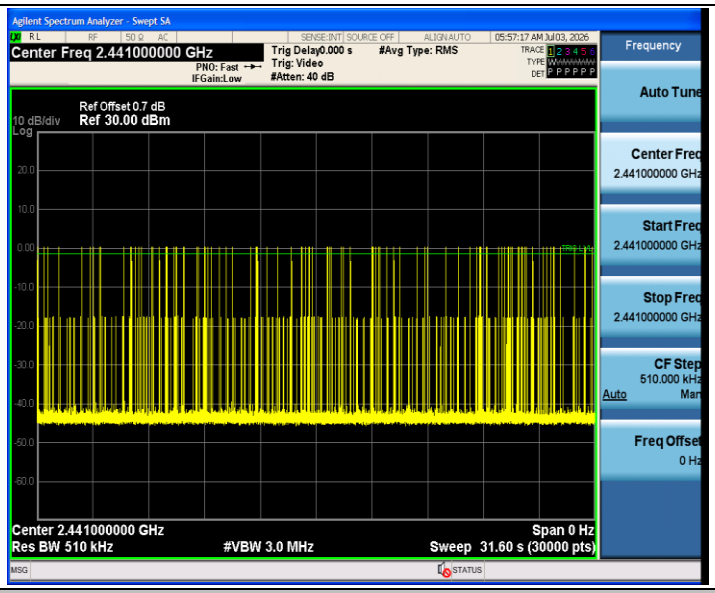
2DH3_Ant1_Hop



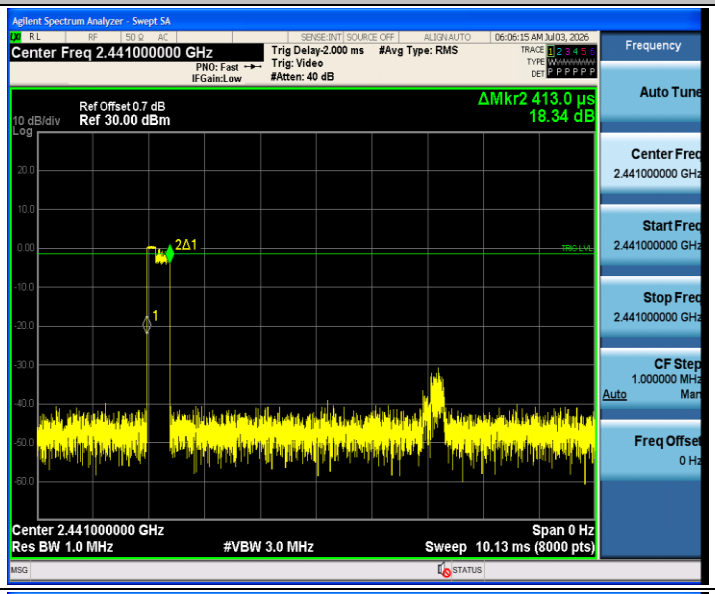


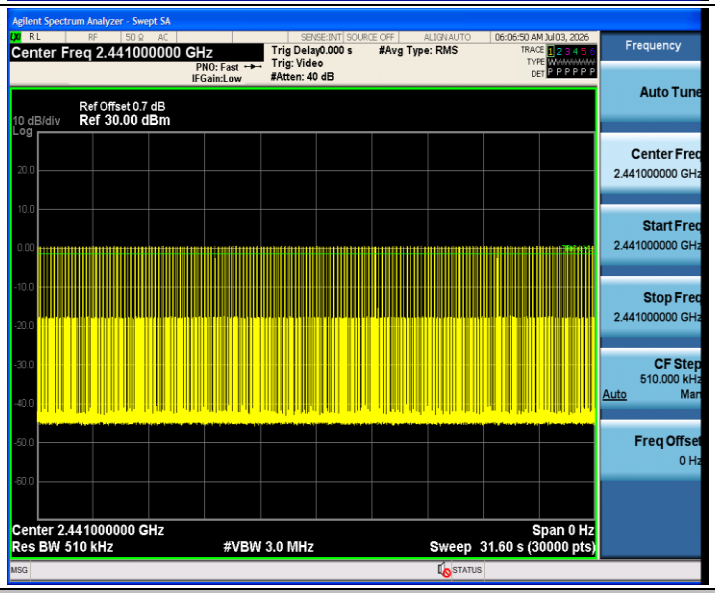
2DH5_Ant1_Hop



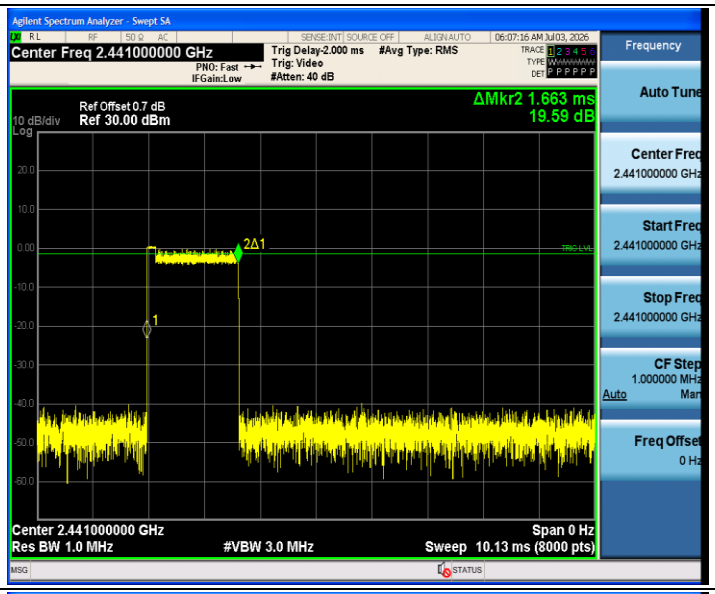


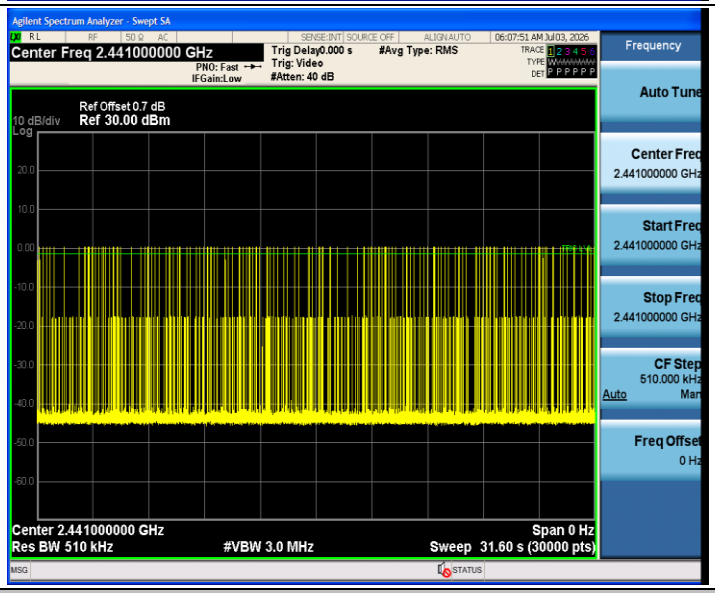
3DH1_Ant1_Hop



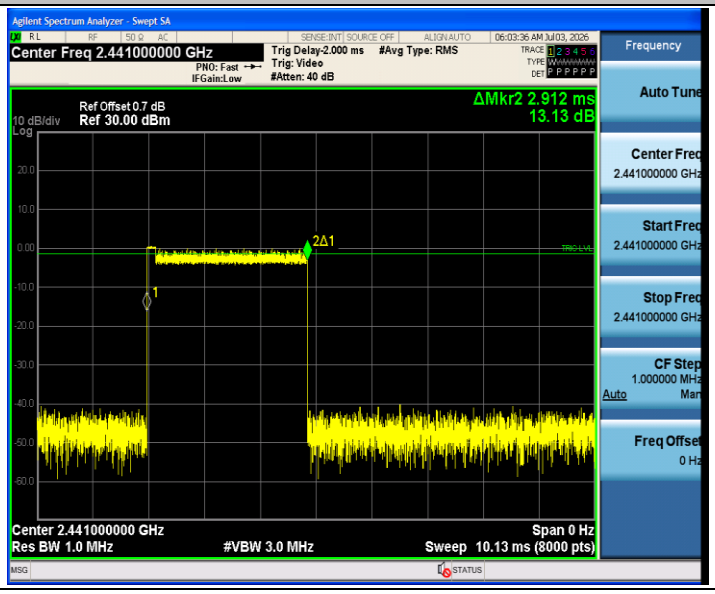


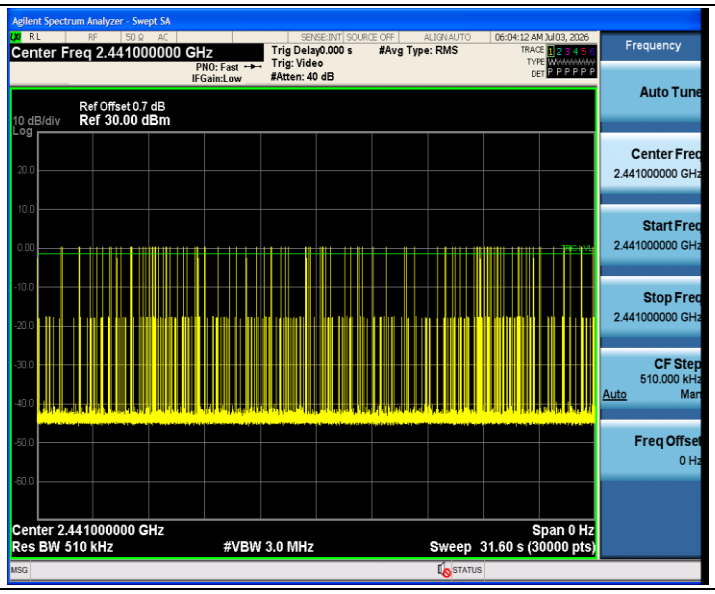
3DH3_Ant1_Hop





3DH5_Ant1_Hop



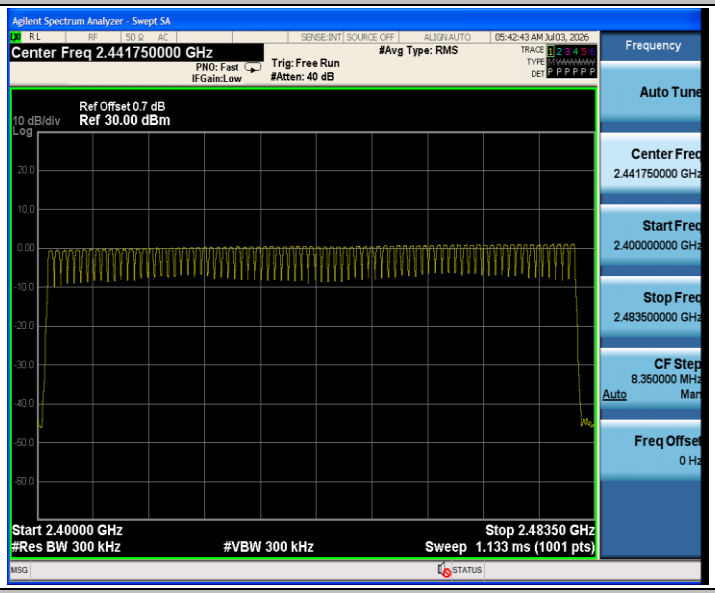
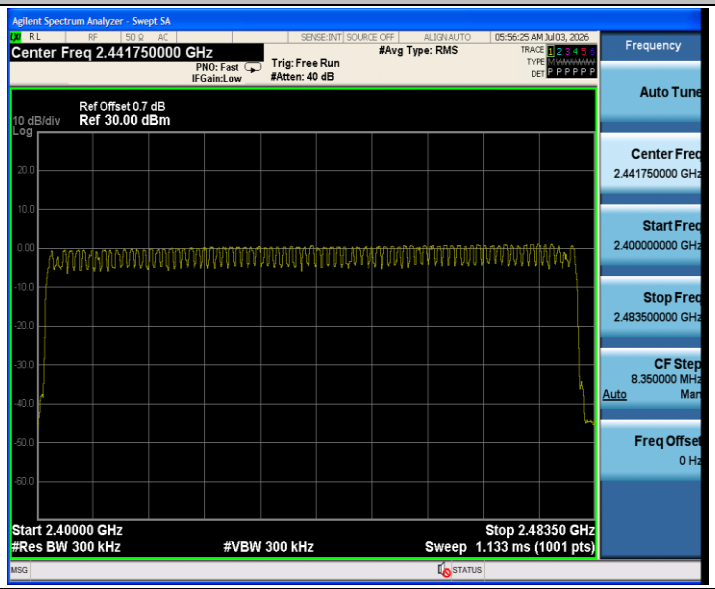

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441000000 GHz
PNO: Fast
IFGain:Low
Trig Delay 0.000 s
Trig: Video
#Avg Type: RMS
#Atten: 40 dB
06:04:12 AM Jul 03, 2026
Ref Offset 0.7 dB
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.441000000 GHz
Res BW 510 kHz
#VBW 3.0 MHz
Span 0 Hz
Sweep 31.60 s (30000 pts)
Frequency
Auto Tune
Center Freq
2.441000000 GHz
Start Freq
2.441000000 GHz
Stop Freq
2.441000000 GHz
CF Step
510.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

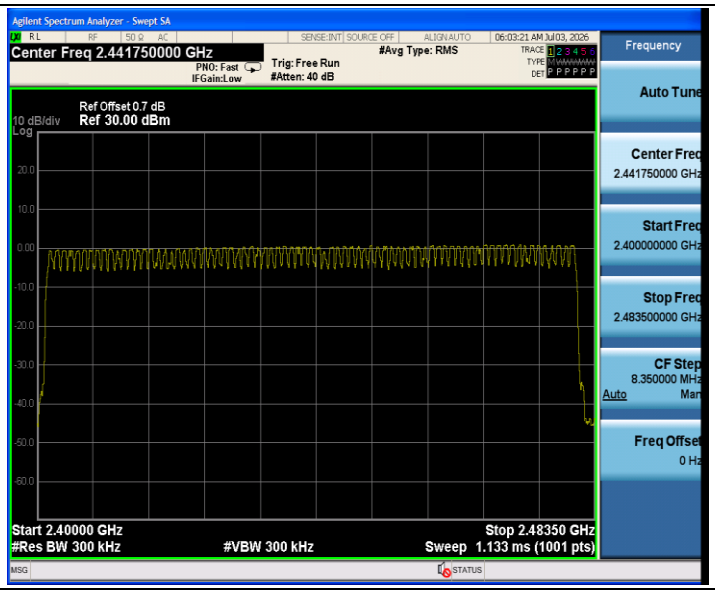
Appendix F: Number of hopping channels

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

DH5_Ant1_Hop

2DH5_Ant1_Hop

3DH5_Ant1_Hop


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441750000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
#Avg Type: RMS
06:03:21 AM Jul 03, 2026
Ref Offset 0.7 dB
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Start 2.40000 GHz
#Res BW 300 kHz
#VBW 300 kHz
Stop 2.48350 GHz
Sweep 1.133 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.441750000 GHz
Start Freq
2.400000000 GHz
Stop Freq
2.483500000 GHz
CF Step
8.350000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

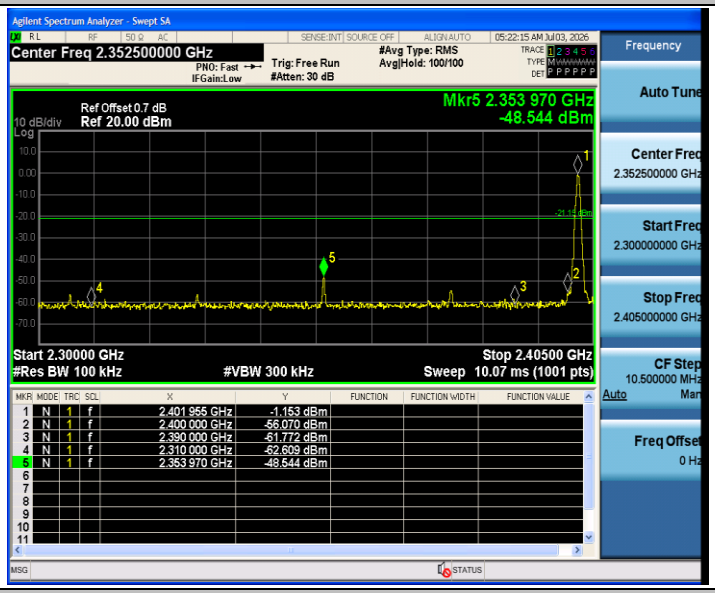
Appendix G: Band edge measurements

Test Result

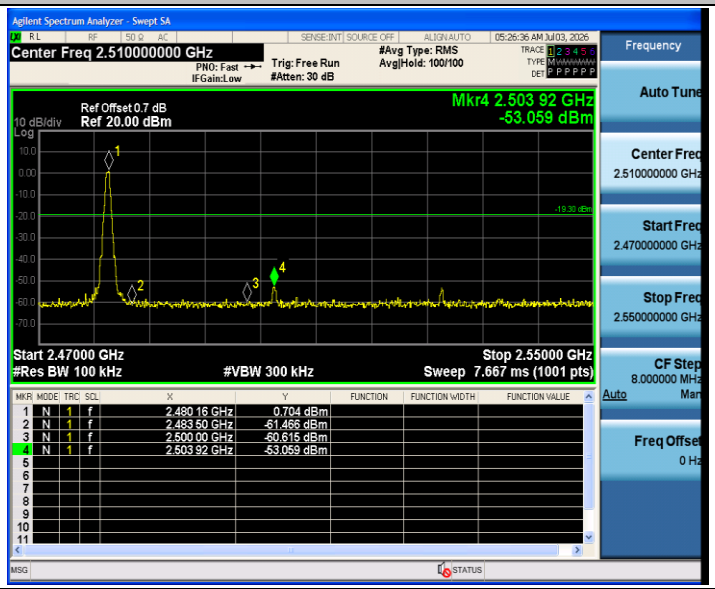
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.15	-48.54	≤-21.15	PASS
		High	2480	0.70	-53.06	≤-19.3	PASS
		Low	Hop_2402	-0.81	-47.78	≤-20.81	PASS
		High	Hop_2480	0.56	-47.28	≤-19.44	PASS
2DH5	Ant1	Low	2402	-0.91	-53.36	≤-20.91	PASS
		High	2480	0.52	-54.08	≤-19.48	PASS
		Low	Hop_2402	-6.70	-53.11	≤-26.7	PASS
		High	Hop_2480	0.78	-50.81	≤-19.22	PASS
3DH5	Ant1	Low	2402	-0.80	-56.64	≤-20.8	PASS
		High	2480	0.76	-52.59	≤-19.24	PASS
		Low	Hop_2402	-1.56	-54.62	≤-21.56	PASS
		High	Hop_2480	0.79	-47.02	≤-19.21	PASS

Test Graphs

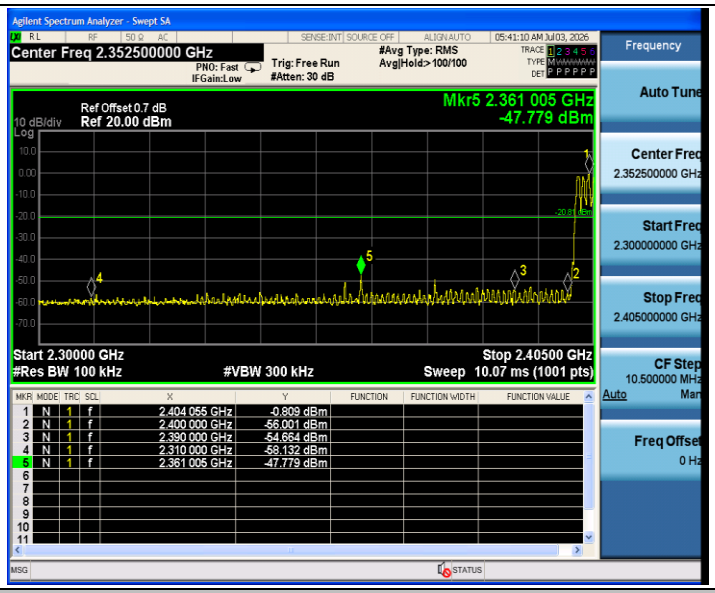
DH5_Ant1_Low_2402



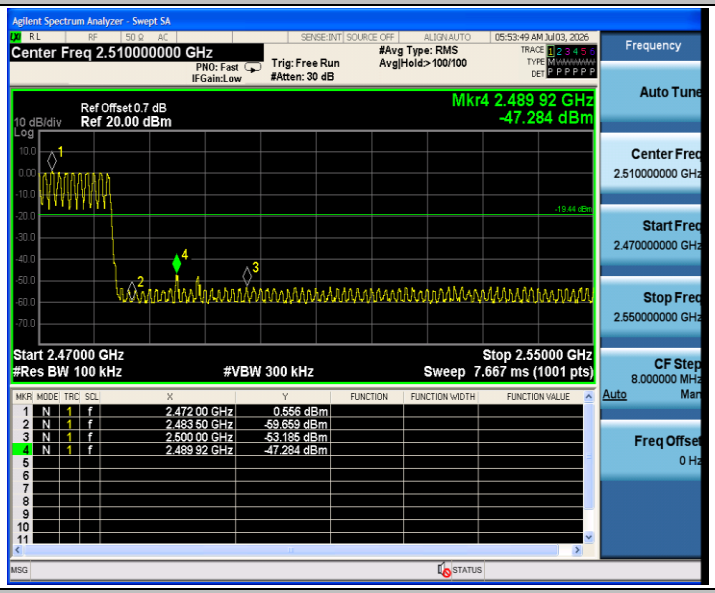
DH5_Ant1_High_2480



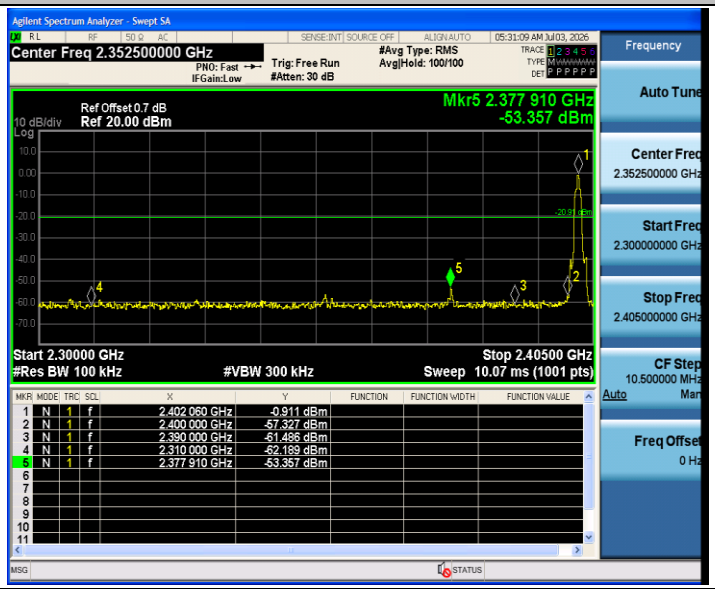
DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402



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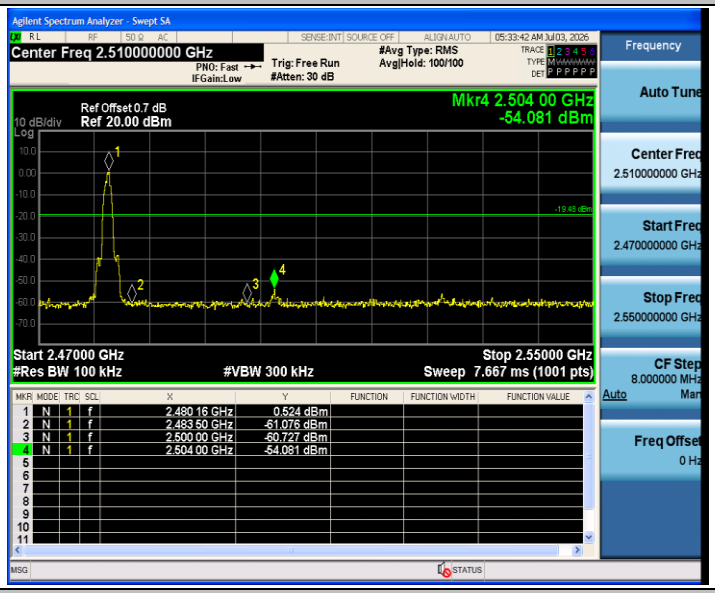

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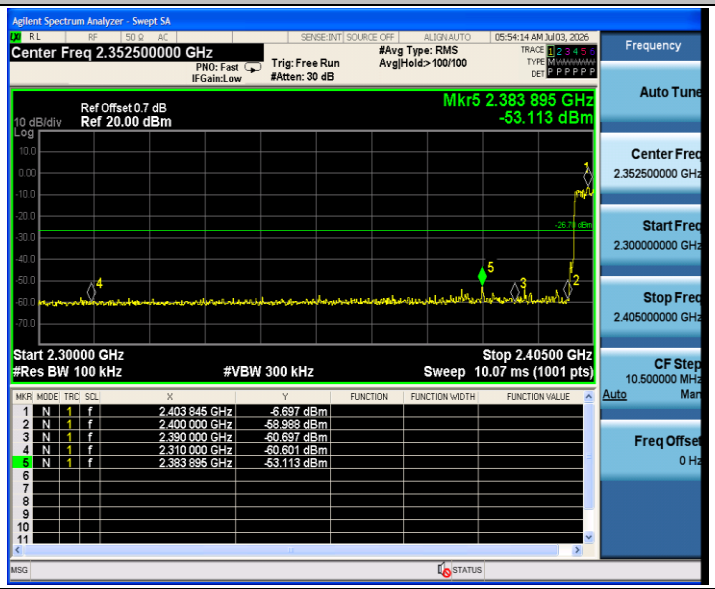
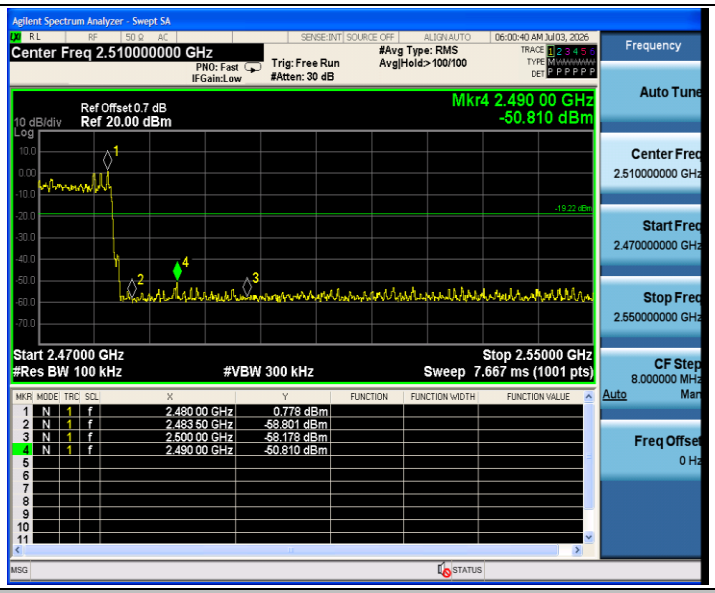
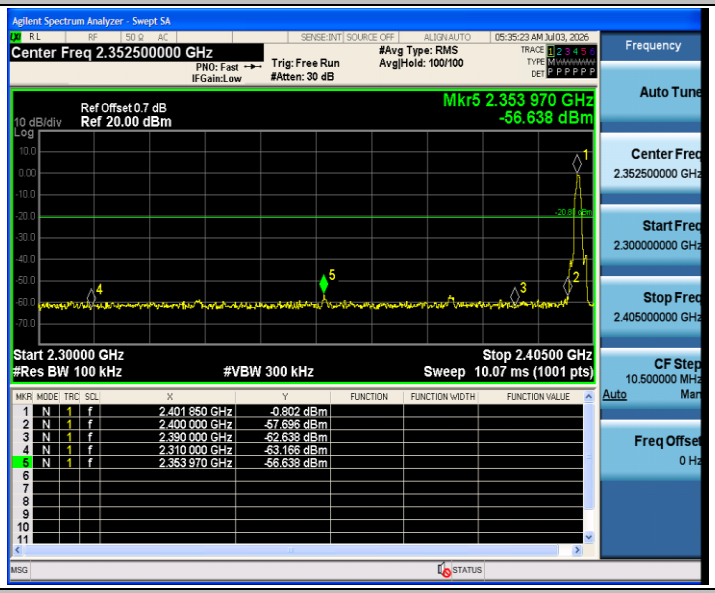


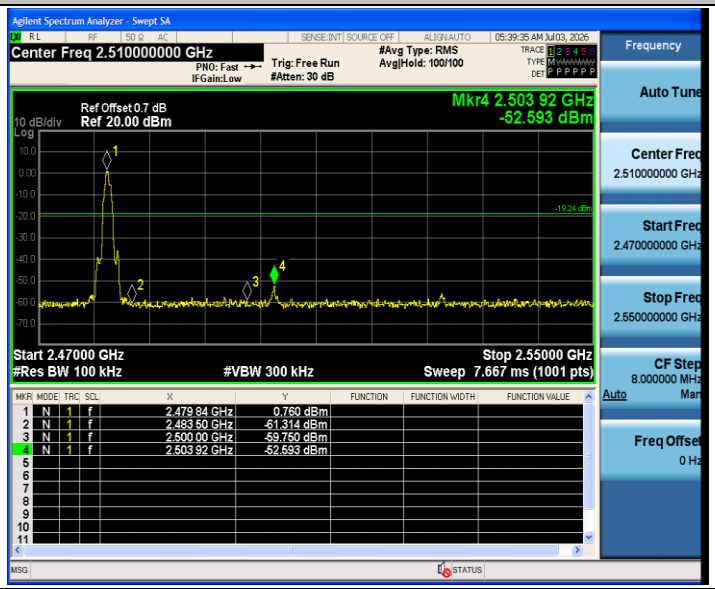
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



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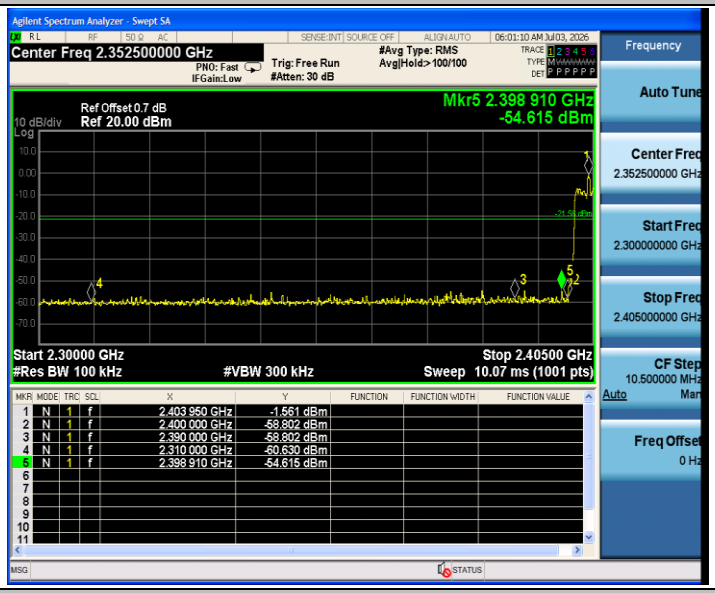
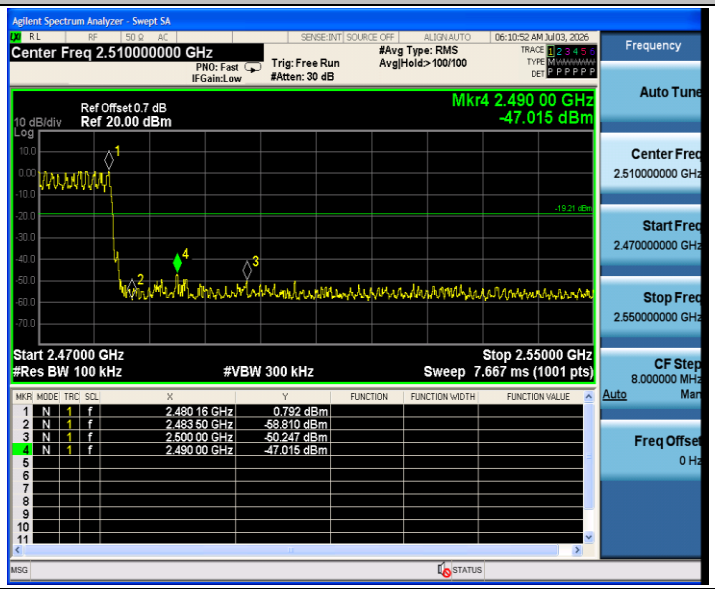


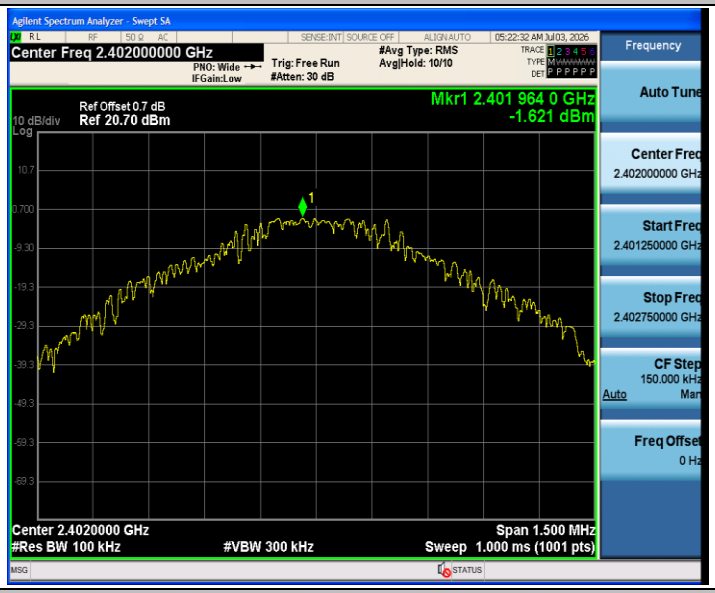
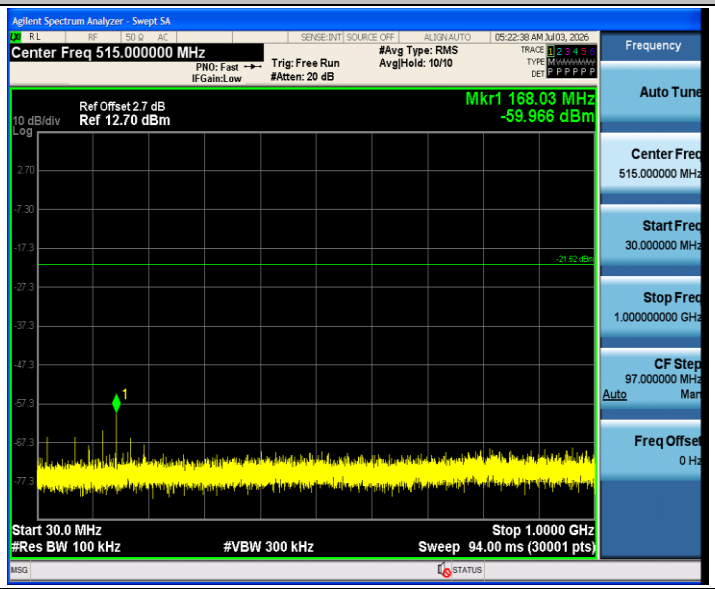
3DH5_Ant1_High_Hop_2480


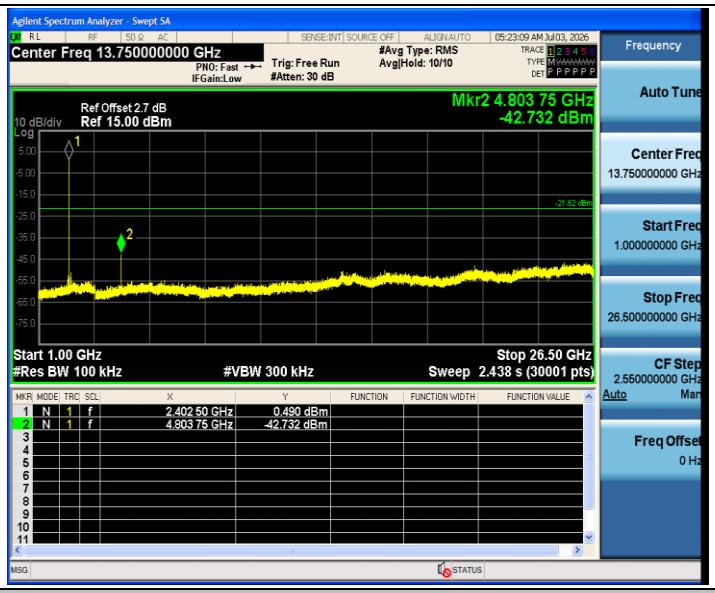
Appendix H: Conducted Spurious Emission

Test Result

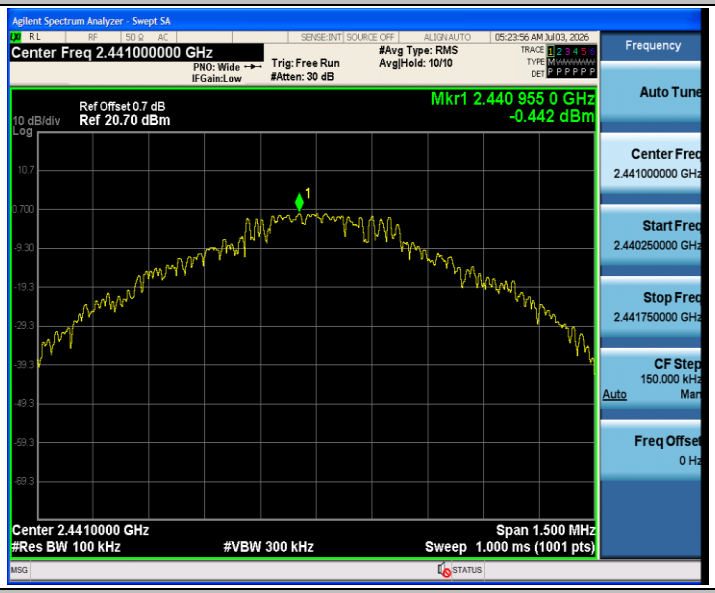
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.62	-1.62	---	PASS
			30~1000	-1.62	-59.97	≤-21.62	PASS
			1000~26500	-1.62	-42.73	≤-21.62	PASS
		2441	Reference	-0.44	-0.44	---	PASS
			30~1000	-0.44	-60.39	≤-20.44	PASS
			1000~26500	-0.44	-44.4	≤-20.44	PASS
		2480	Reference	0.10	0.10	---	PASS
			30~1000	0.10	-50.05	≤-19.9	PASS
			1000~26500	0.10	-45.67	≤-19.9	PASS
2DH5	Ant1	2402	Reference	-2.07	-2.07	---	PASS
			30~1000	-4.63	-46.75	≤-24.63	PASS
			1000~26500	-4.63	-46.39	≤-24.63	PASS
		2441	Reference	-1.87	-1.87	---	PASS
			30~1000	-1.87	-60.25	≤-21.87	PASS
			1000~26500	-1.87	-46.32	≤-21.87	PASS
		2480	Reference	-5.28	-5.28	---	PASS
			30~1000	-5.28	-60.27	≤-25.28	PASS
			1000~26500	-5.28	-46.33	≤-25.28	PASS
3DH5	Ant1	2402	Reference	-2.14	-2.14	---	PASS
			30~1000	-2.14	-53.12	≤-22.14	PASS
			1000~26500	-2.14	-41.12	≤-22.14	PASS
		2441	Reference	0.25	0.25	---	PASS
			30~1000	0.25	-45.28	≤-19.75	PASS
			1000~26500	0.25	-46.51	≤-19.75	PASS
		2480	Reference	-0.15	-0.15	---	PASS
			30~1000	-0.15	-60.08	≤-20.15	PASS
			1000~26500	-0.15	-46.44	≤-20.15	PASS

Test Graphs

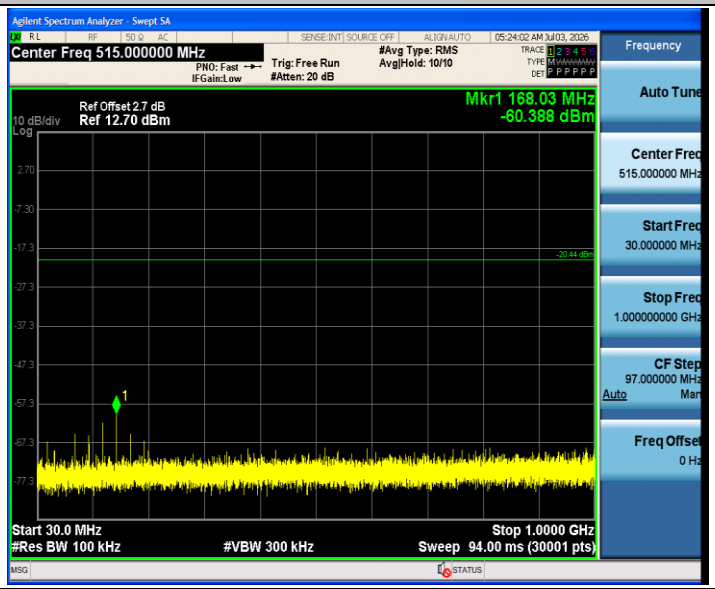
DH5_Ant1_2402_0~Reference

DH5_Ant1_2402_30~1000

DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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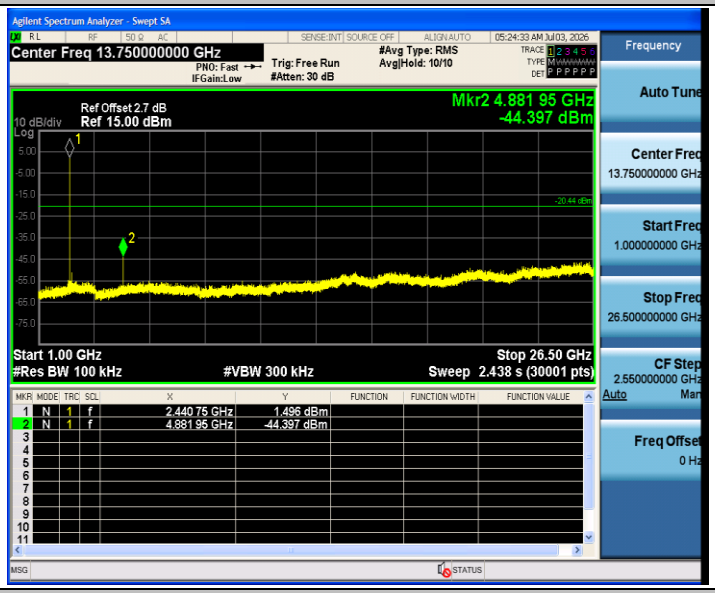
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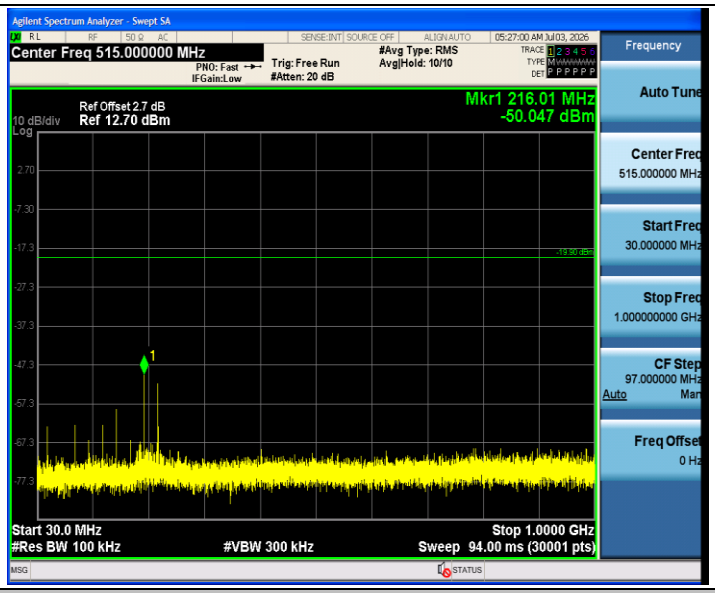
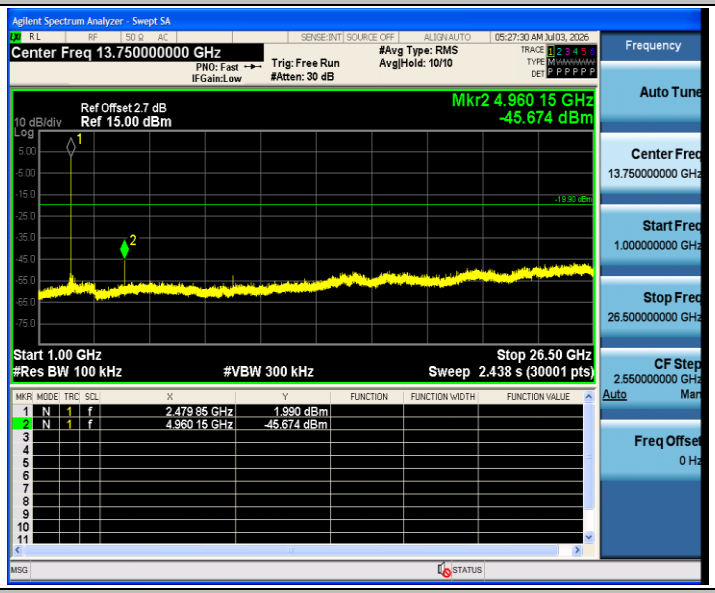
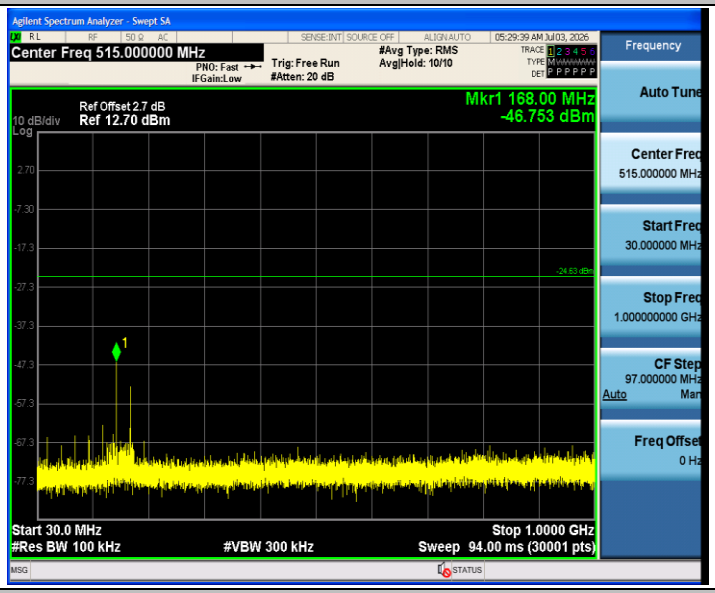
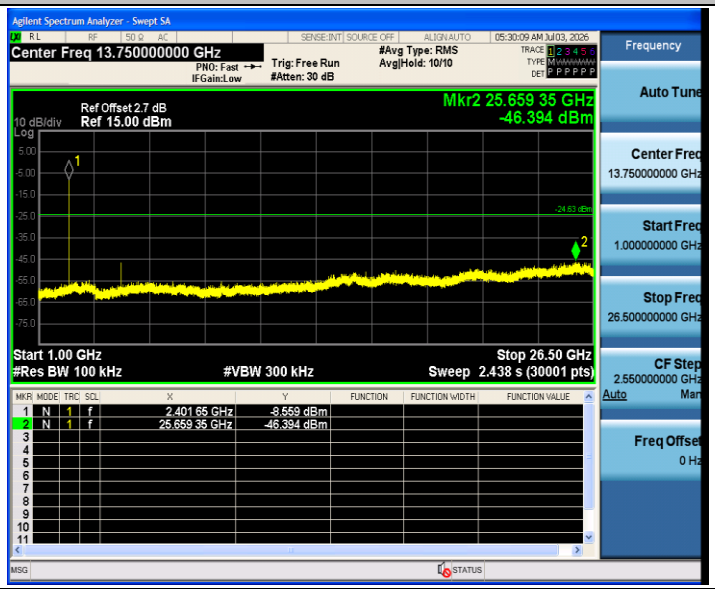
DH5_Ant1_2480_30~1000



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