FCC Appendix RF Test Data for BT

FCC ID	**:**	**2BYS2-F580**
Company	**:**	**SHENZHEN AOSHIDING ELECTRONIC TECHNOLOGY.,LTD**
EUT	**:**	**Clip-On Wireless Headset**
Model Number	**:**	**F580**
Report No.	**:**	**CTA26092800101**
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	0.945	2440.550	2441.495	---	---
		2480	0.963	2479.544	2480.507	---	---
2DH5	Ant1	2402	1.290	2401.376	2402.666	---	---
		2441	1.326	2440.346	2441.672	---	---
		2480	1.332	2479.340	2480.672	---	---

Test Graphs

DH5_Ant1_2402

DH5_Ant1_2441

DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

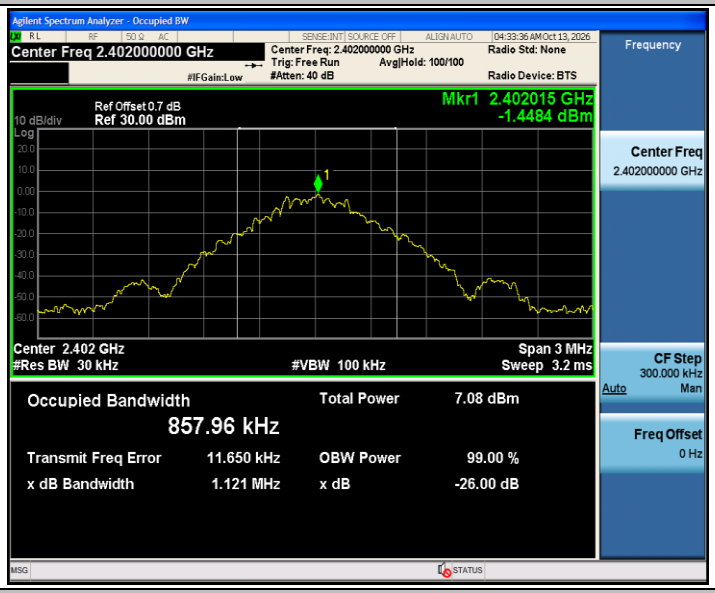

Appendix B: Occupied Channel Bandwidth

Test Result

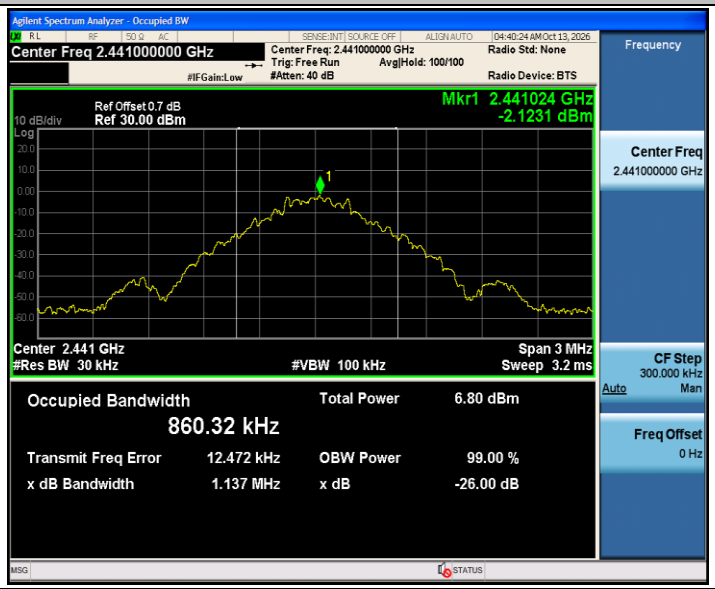
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85796	2401.5827	2402.4406	---	---
		2441	0.86032	2440.5823	2441.4426	---	---
		2480	0.85326	2479.5814	2480.4346	---	---
2DH5	Ant1	2402	1.1829	2401.4191	2402.6020	---	---
		2441	1.1872	2440.4159	2441.6031	---	---
		2480	1.1965	2479.4115	2480.6080	---	---

Test Graphs

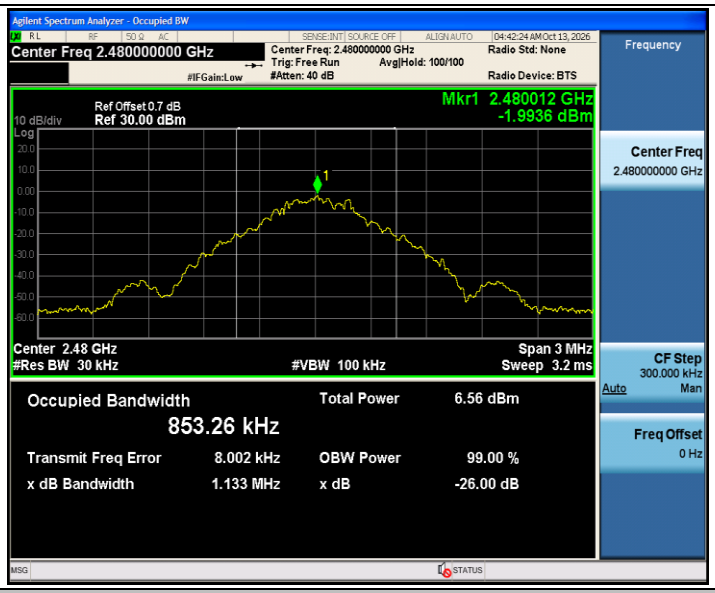
DH5_Ant1_2402



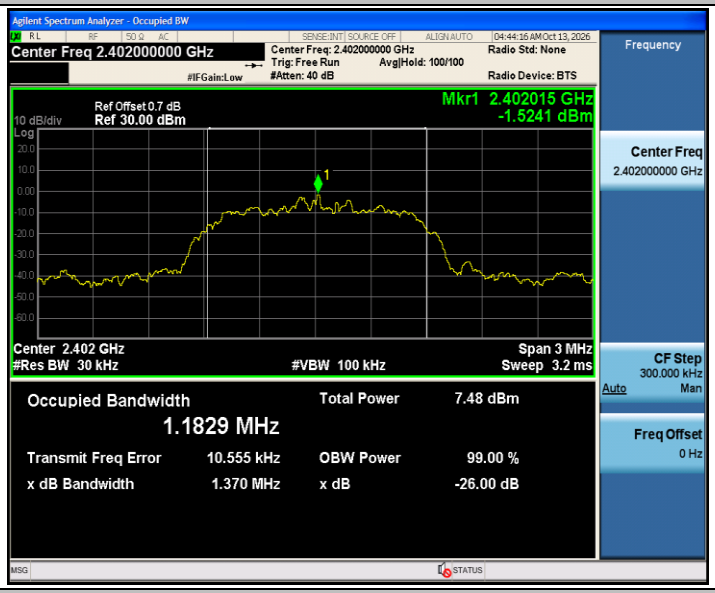
DH5_Ant1_2441



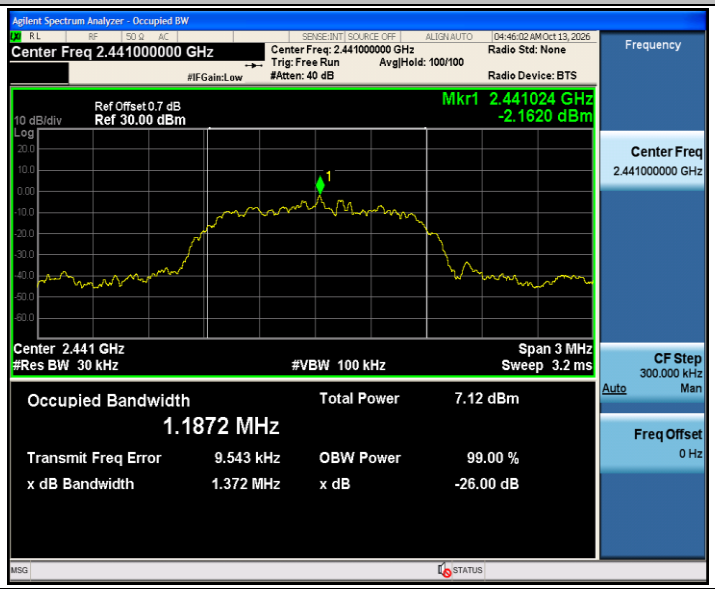
DH5_Ant1_2480

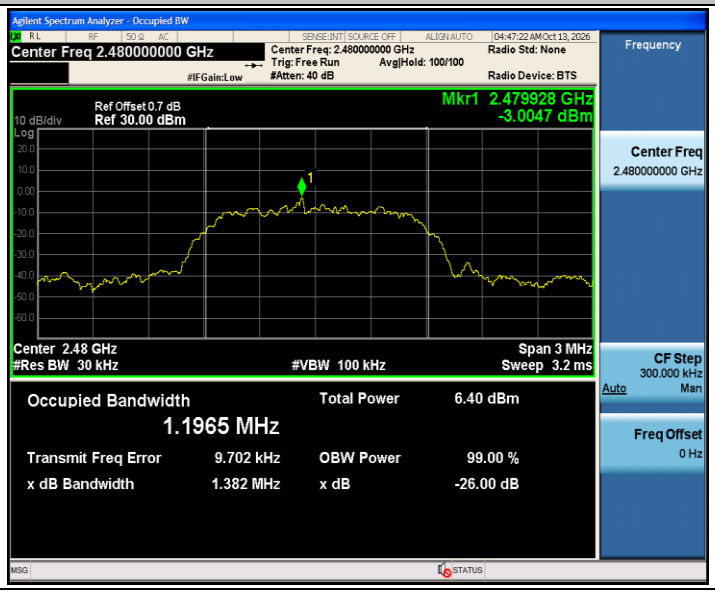


2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480


Appendix C: Maximum conducted output power

Test Result Peak

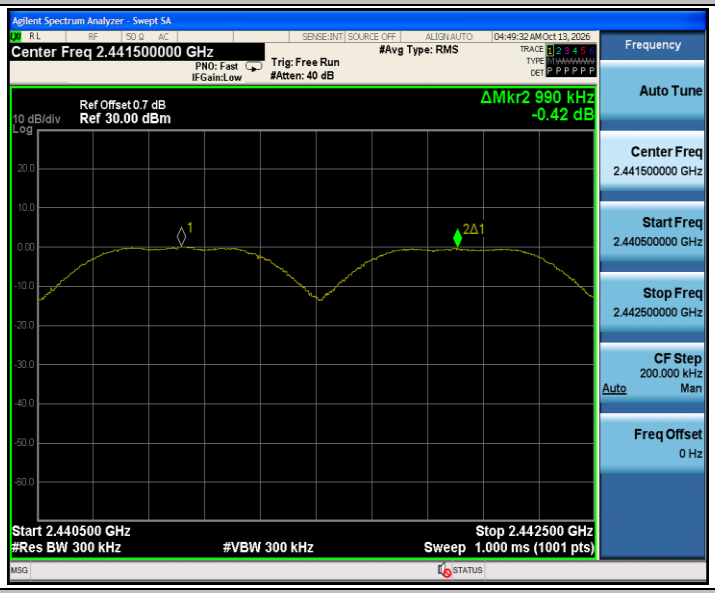
Test Mode	Antenna	Freq(MHz)	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.30	≤20.97	PASS
		2441	0.11	≤20.97	PASS
		2480	-0.16	≤20.97	PASS
2DH5	Ant1	2402	2.97	≤20.97	PASS
		2441	2.72	≤20.97	PASS
		2480	2.46	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.99	≥0.963	PASS
2DH5	Ant1	Hop	0.988	≥0.888	PASS

Test Graphs

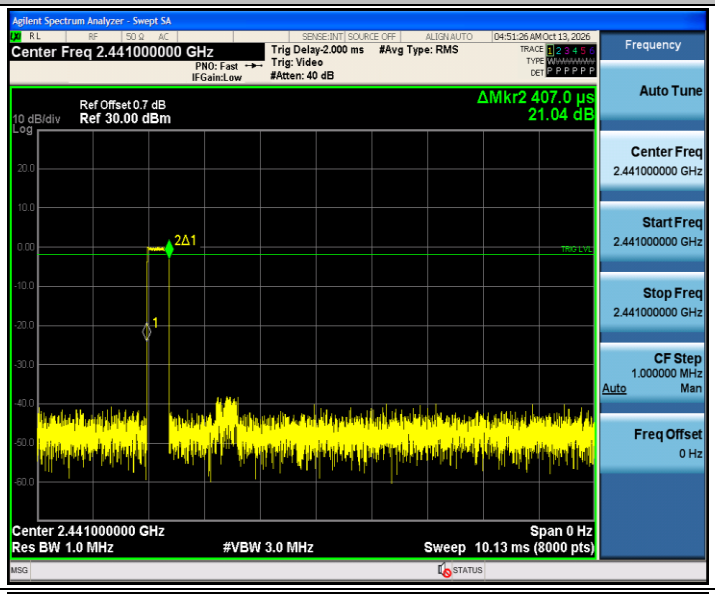
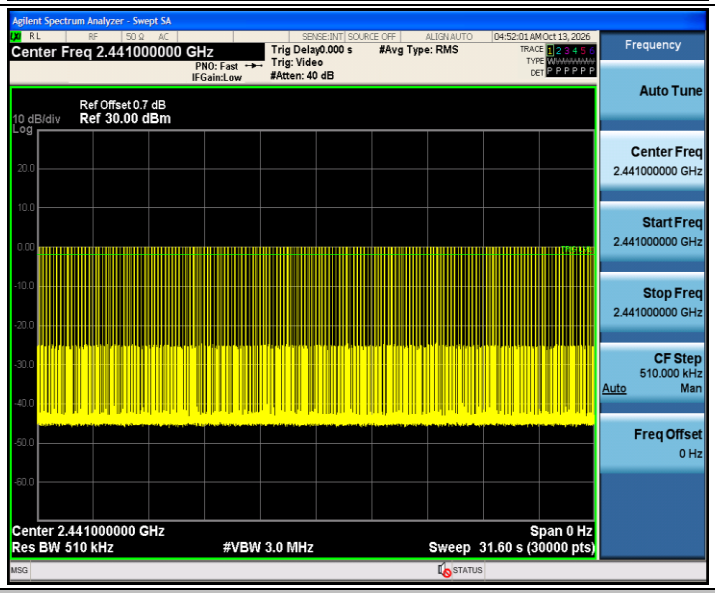
DH5_Ant1_Hop

2DH5_Ant1_Hop

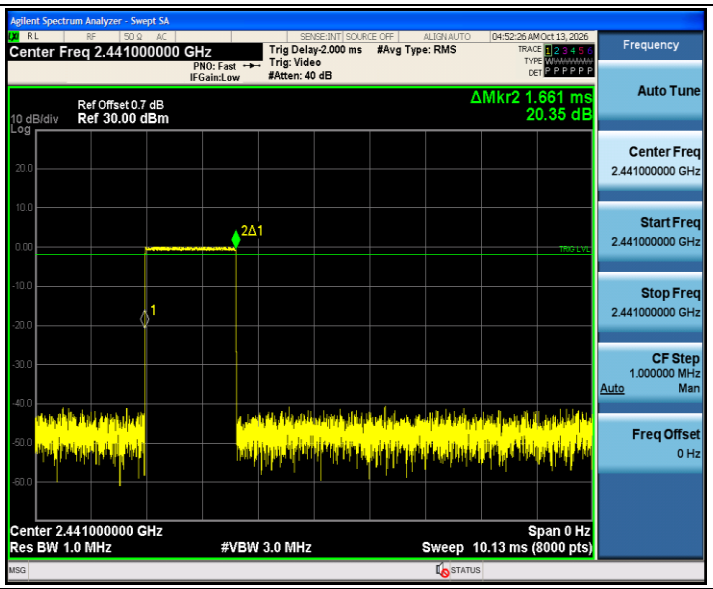

Appendix E: Time of occupancy

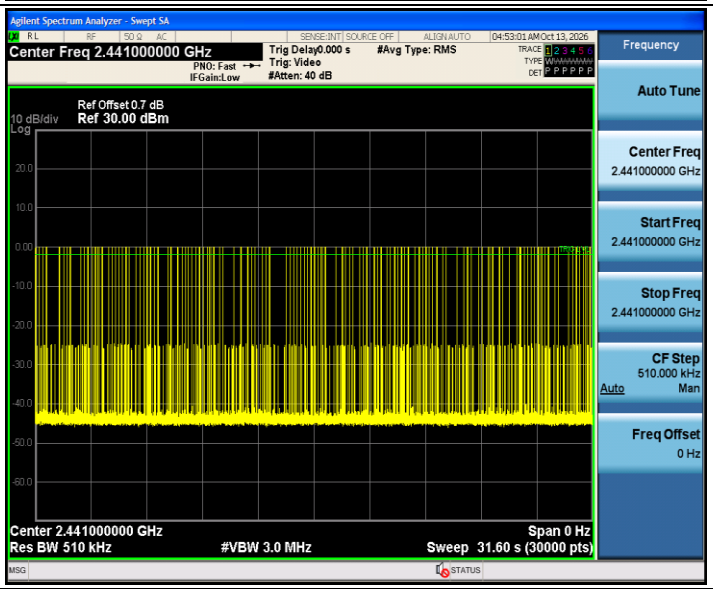
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	312	0.127	≤0.4	PASS
DH3	Ant1	Hop	1.661	163	0.271	≤0.4	PASS
DH5	Ant1	Hop	2.910	94	0.274	≤0.4	PASS
2DH1	Ant1	Hop	0.414	319	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.667	164	0.273	≤0.4	PASS
2DH5	Ant1	Hop	2.915	99	0.289	≤0.4	PASS

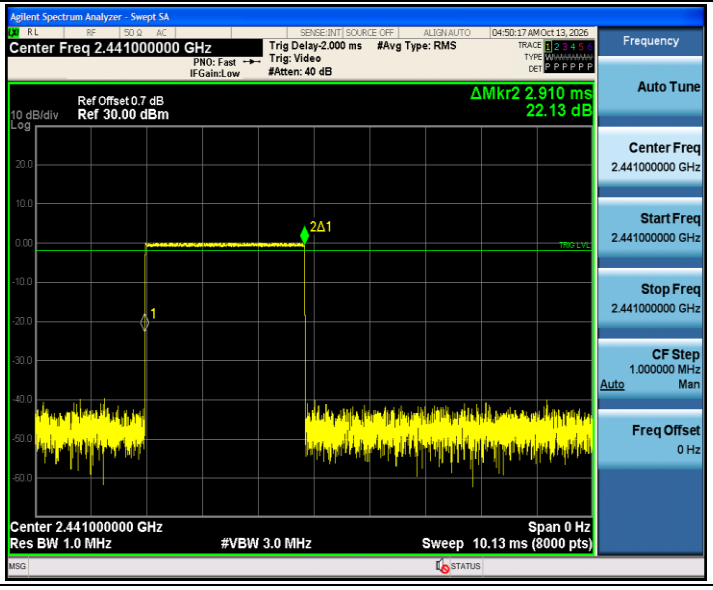
Test Graphs

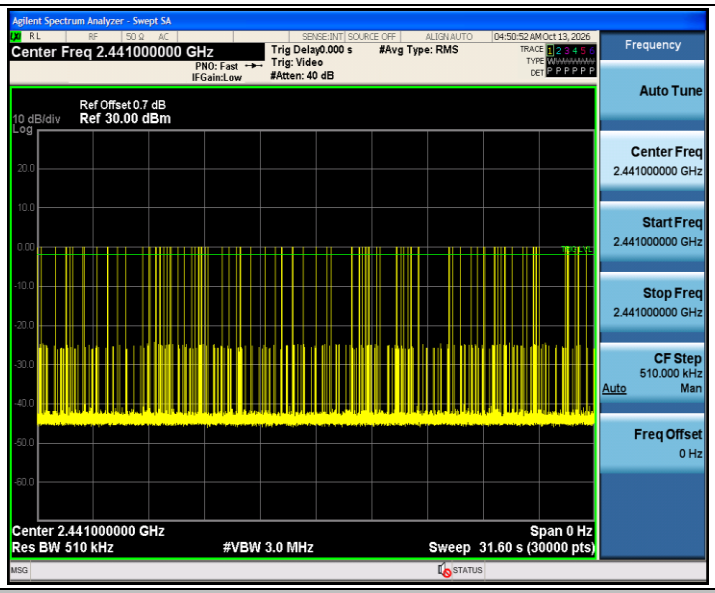
DH1_Ant1_Hop


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
04:52:26 AM Oct 13, 2026
Ref Offset 0.7 dB
10 dB/div
Ref 30.00 dBm
ΔMkr2 1.661 ms
20.35 dB
2Δ1
1
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
Man
Freq Offset
0 Hz

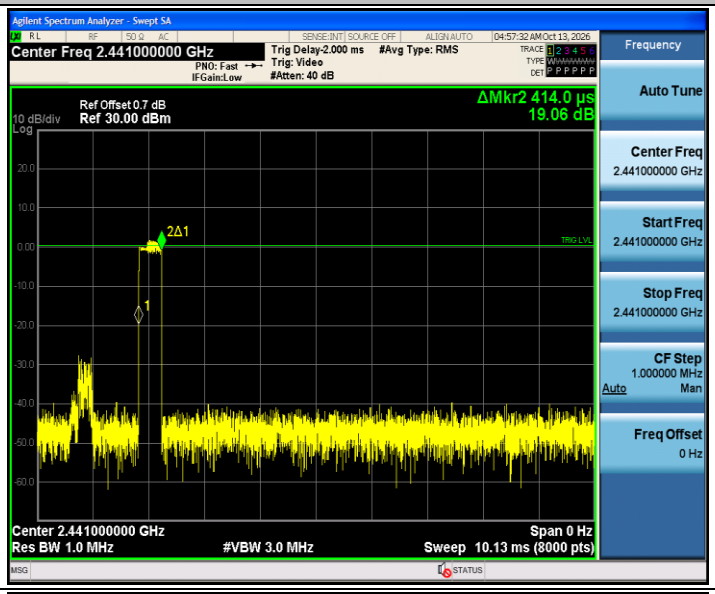

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441000000 GHz
PNO: Fast
IFGain:Low
Trig Delay0.000 s
Trig: Video
#Avg Type: RMS
#Atten: 40 dB
04:53:01 AM Oct 13, 2026
Ref Offset 0.7 dB
10 dB/div
Ref 30.00 dBm
Center 2.441000000 GHz
Res BW 510 kHz
#VBW 3.0 MHz
Span 0 Hz
Sweep 31.60 s (30000 pts)
Frequency
Auto Tune
Center Freq
2.441000000 GHz
Start Freq
2.441000000 GHz
Stop Freq
2.441000000 GHz
CF Step
510.000 kHz
Auto
Man
Freq Offset
0 Hz

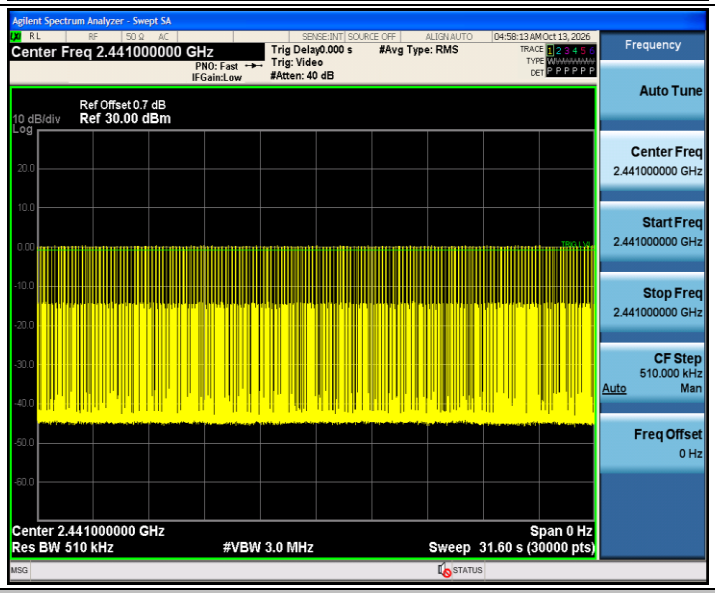
DH5_Ant1_Hop


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
04:50:17 AM Oct 13, 2026
Ref Offset 0.7 dB
10 dB/div
Ref 30.00 dBm
ΔMkr2 2.910 ms
22.13 dB
2Δ1
1
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
Man
Freq Offset
0 Hz

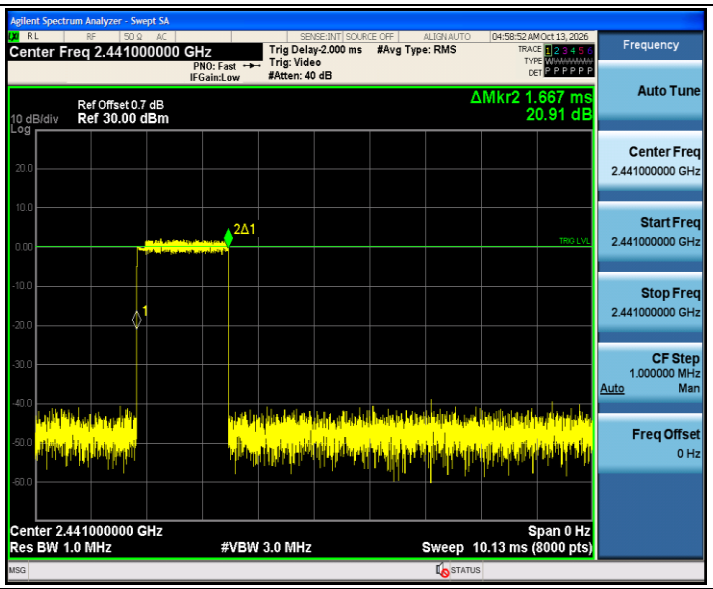


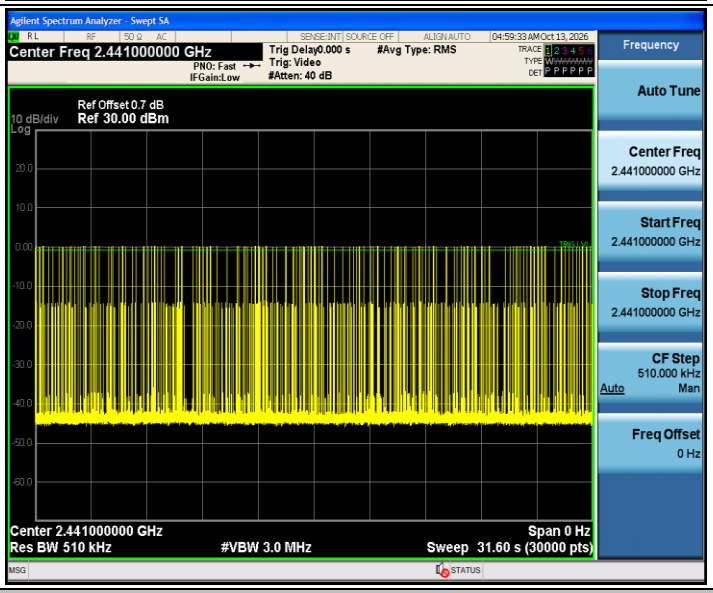
2DH1_Ant1_Hop



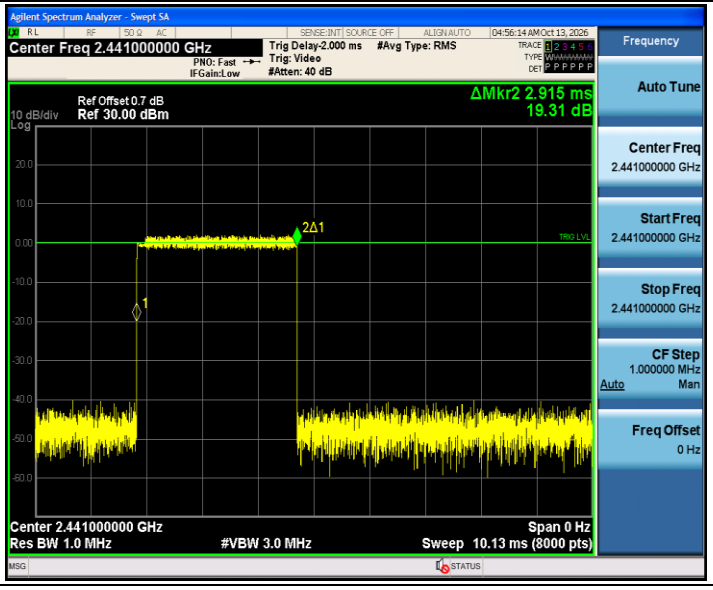


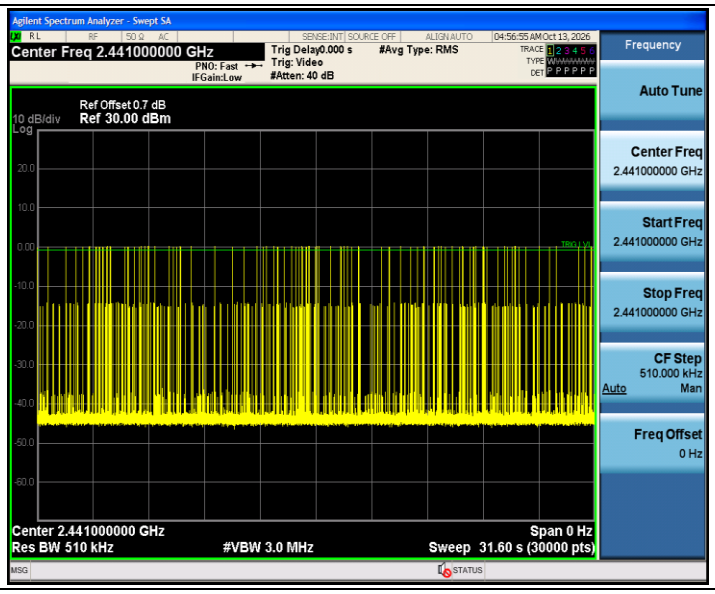
2DH3_Ant1_Hop





2DH5_Ant1_Hop



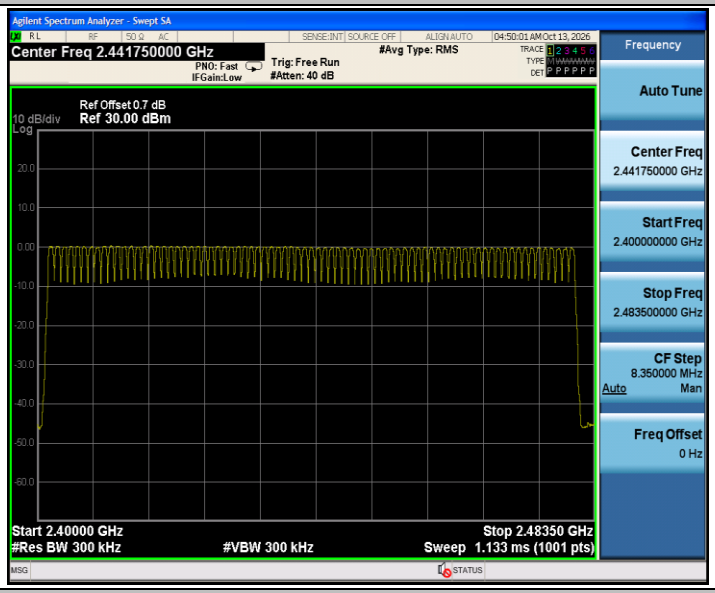
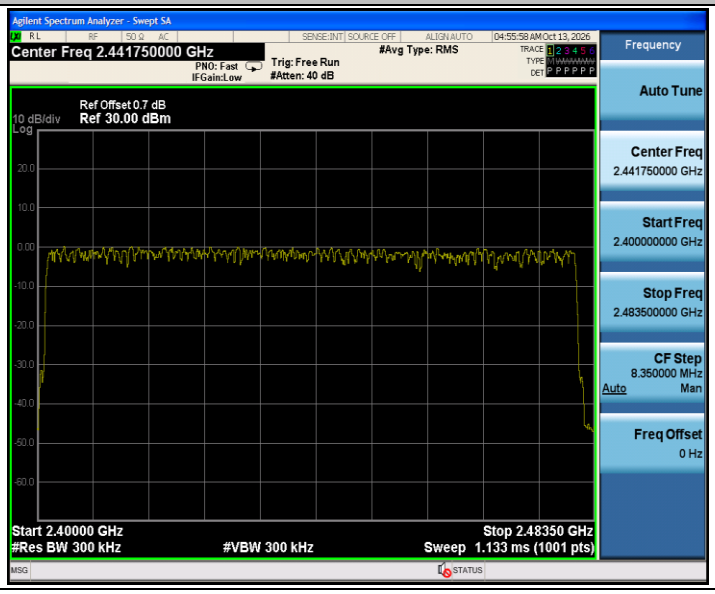

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441000000 GHz
PNO: Fast
IFGain:Low
Trig Delay 0.000 s
Trig: Video
#Avg Type: RMS
#Atten: 40 dB
04:56:55 AM Oct 13, 2026
Ref Offset 0.7 dB
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.441000000 GHz
Res BW 510 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

Test Graphs

DH5_Ant1_Hop

2DH5_Ant1_Hop


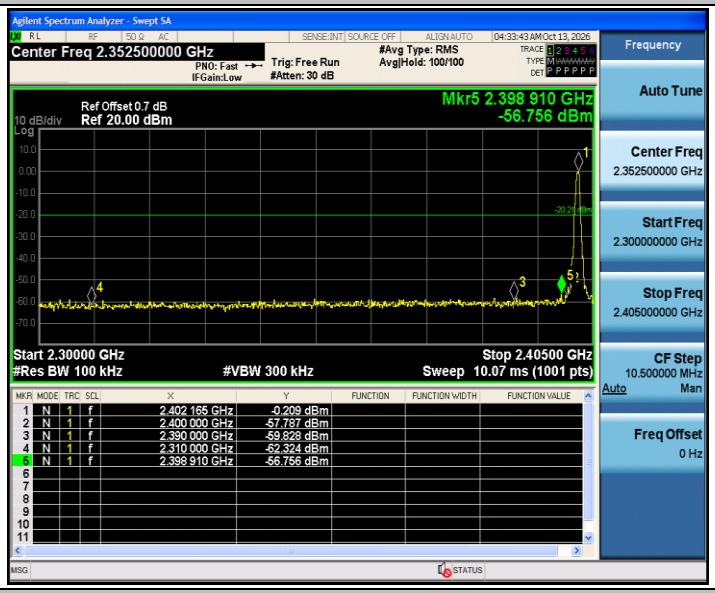
Appendix G: Band edge measurements

Test Result

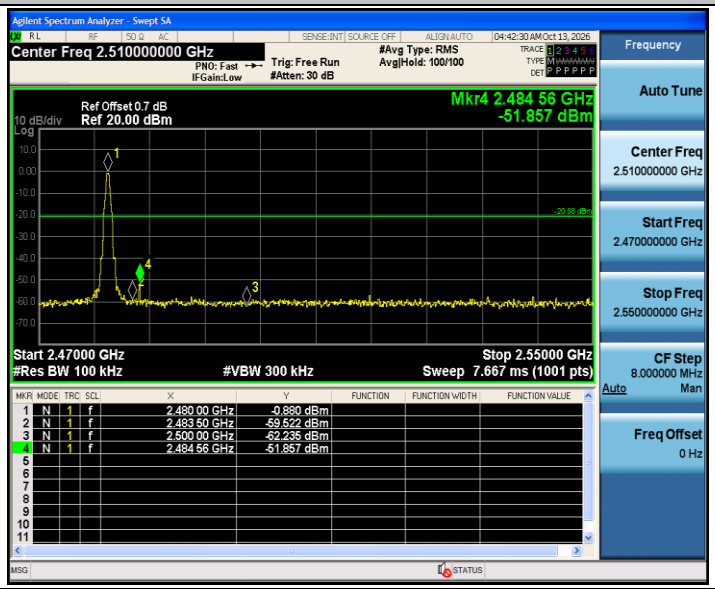
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.21	-56.76	≤-20.21	PASS
		High	2480	-0.88	-51.86	≤-20.88	PASS
		Low	Hop_2402	-0.31	-57.44	≤-20.31	PASS
		High	Hop_2480	-0.02	-51.47	≤-20.02	PASS
2DH5	Ant1	Low	2402	0.14	-49.04	≤-19.86	PASS
		High	2480	-0.10	-51.25	≤-20.1	PASS
		Low	Hop_2402	-2.62	-52.5	≤-22.62	PASS
		High	Hop_2480	-1.14	-52.43	≤-21.14	PASS

Test Graphs

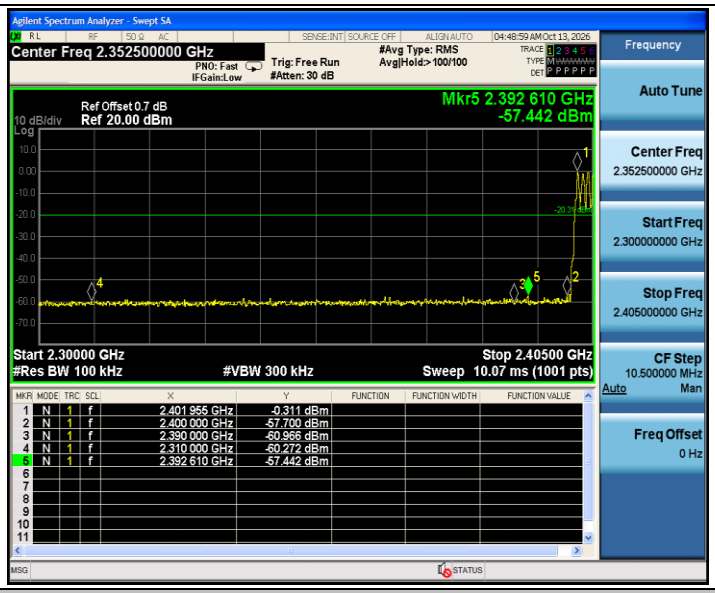
DH5_Ant1_Low_2402



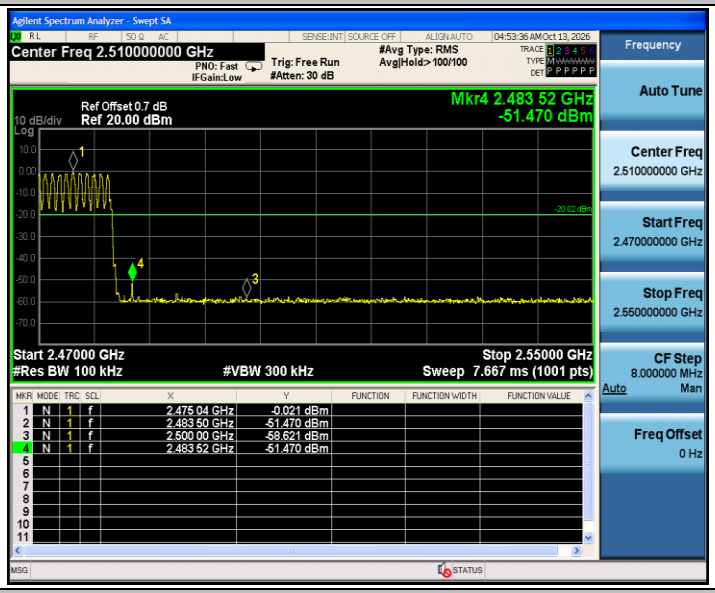
DH5_Ant1_High_2480



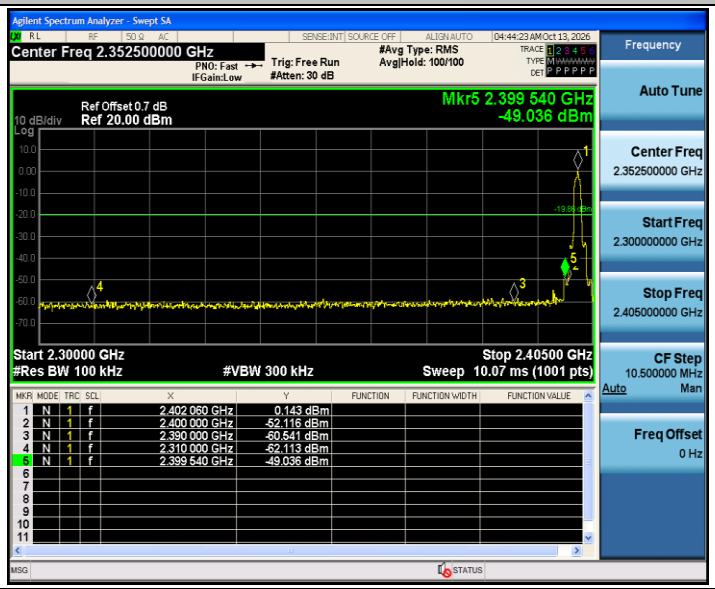
DH5_Ant1_Low_Hop_2402

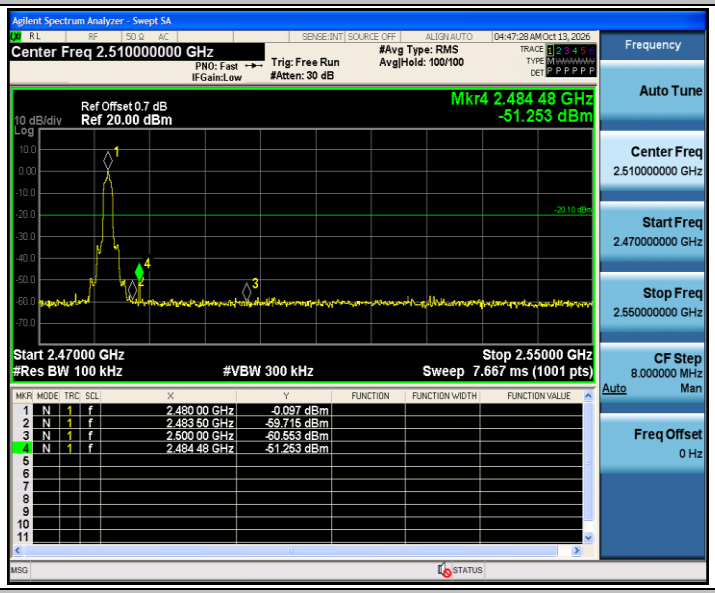
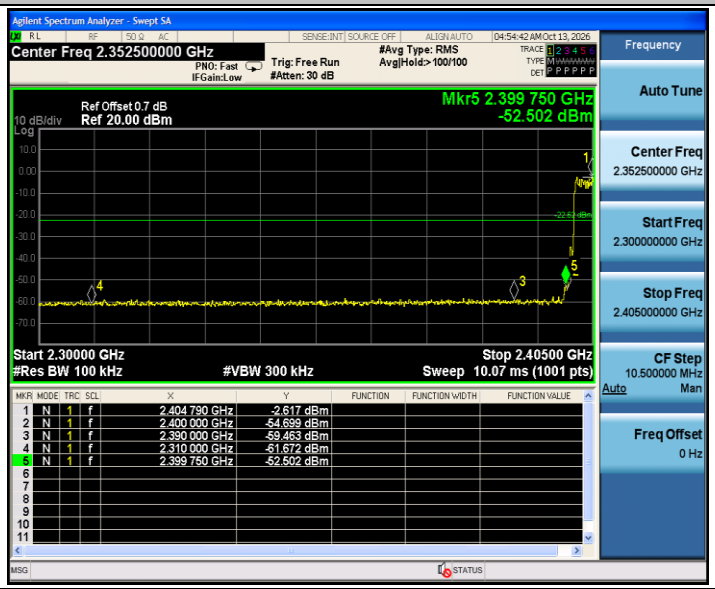


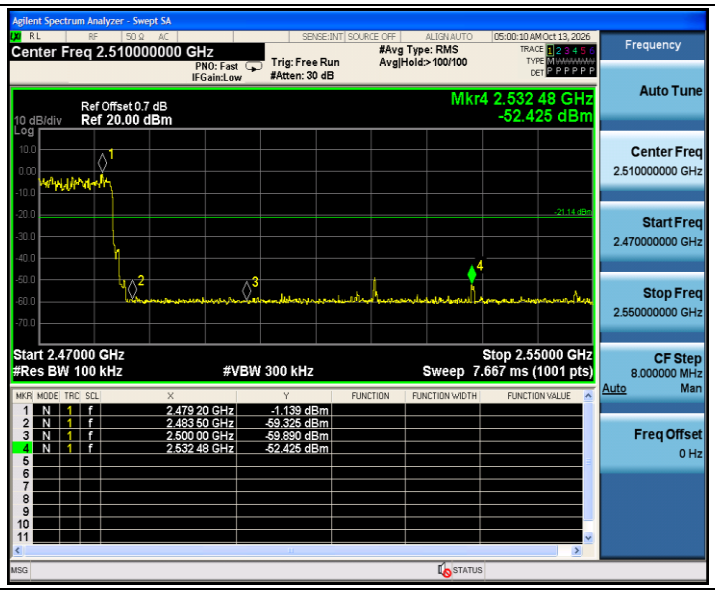
DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402



2DH5_Ant1_High_2480

2DH5_Ant1_Low_Hop_2402

2DH5_Ant1_High_Hop_2480


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.510000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold:>100/100
05:00:10 AM Oct 13, 2026
Frequency
Ref Offset 0.7 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr4 2.532 48 GHz
-52.425 dBm
Start 2.47000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.55000 GHz
Sweep 7.667 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.479 20 GHz -1.139 dBm
2 N 1 f 2.483 50 GHz -59.325 dBm
3 N 1 f 2.500 00 GHz -59.890 dBm
4 N 1 f 2.532 48 GHz -52.425 dBm
Auto Tune
Center Freq
2.510000000 GHz
Start Freq
2.470000000 GHz
Stop Freq
2.550000000 GHz
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Appendix H: Conducted Spurious Emission

Test Result

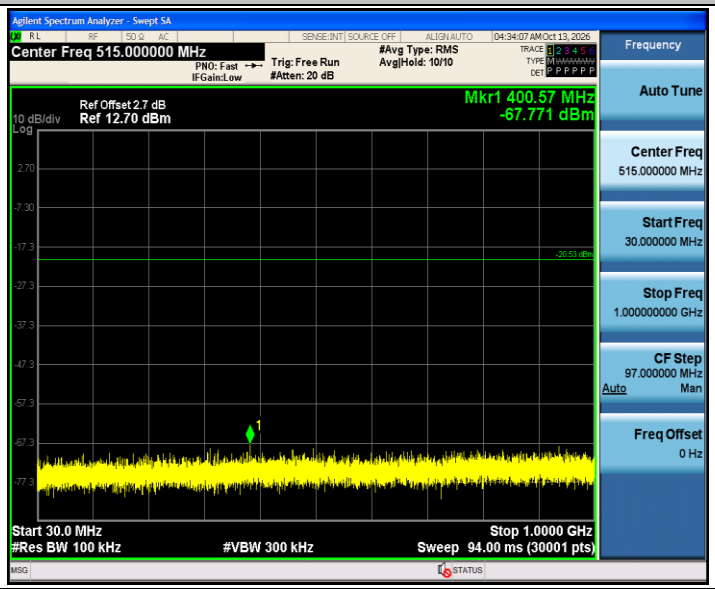
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.53	-0.53	---	PASS
			30~1000	-0.53	-67.77	≤-20.53	PASS
			1000~26500	-0.53	-43.4	≤-20.53	PASS
		2441	Reference	-0.81	-0.81	---	PASS
			30~1000	-0.81	-67.06	≤-20.81	PASS
			1000~26500	-0.81	-45.32	≤-20.81	PASS
		2480	Reference	-1.10	-1.10	---	PASS
			30~1000	-1.10	-68.82	≤-21.1	PASS
			1000~26500	-1.10	-46.35	≤-21.1	PASS
2DH5	Ant1	2402	Reference	-1.12	-1.12	---	PASS
			30~1000	-1.12	-68.49	≤-21.12	PASS
			1000~26500	-1.12	-45.53	≤-21.12	PASS
		2441	Reference	-1.59	-1.59	---	PASS
			30~1000	-1.59	-67.49	≤-21.59	PASS
			1000~26500	-1.59	-46.89	≤-21.59	PASS
		2480	Reference	-2.21	-2.21	---	PASS
			30~1000	-2.21	-68.56	≤-22.21	PASS
			1000~26500	-2.21	-46.48	≤-22.21	PASS

Test Graphs

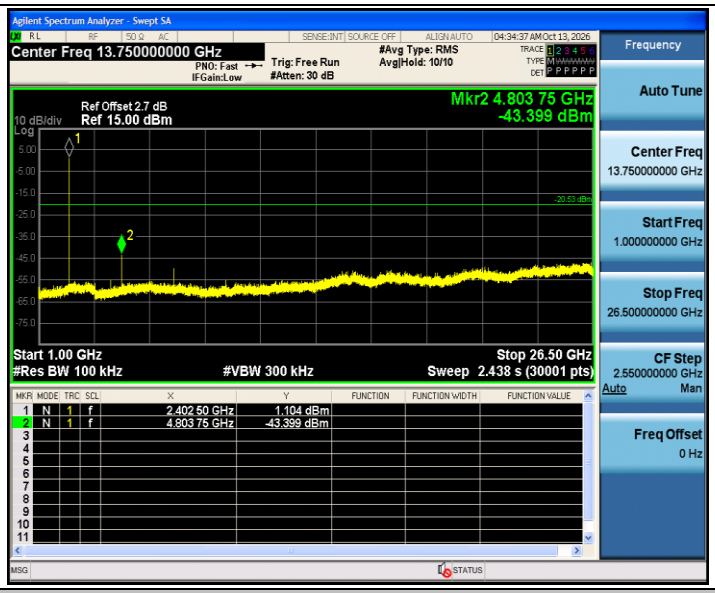
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



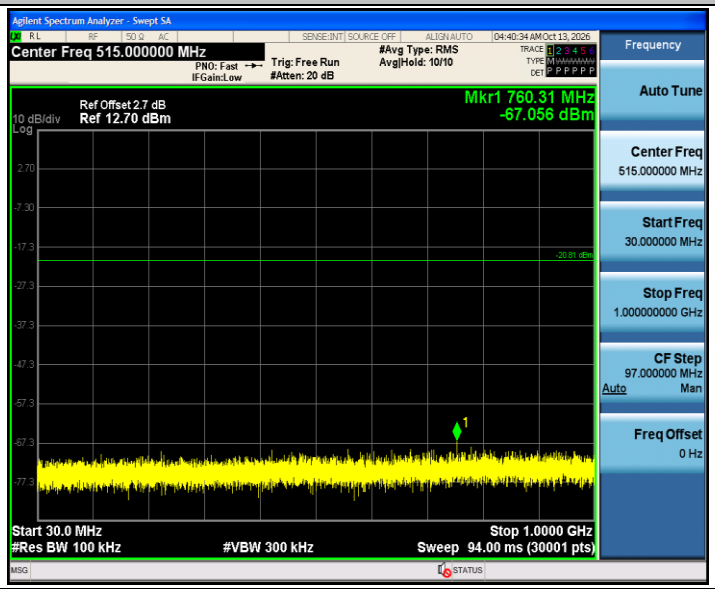
DH5_Ant1_2402_1000~26500

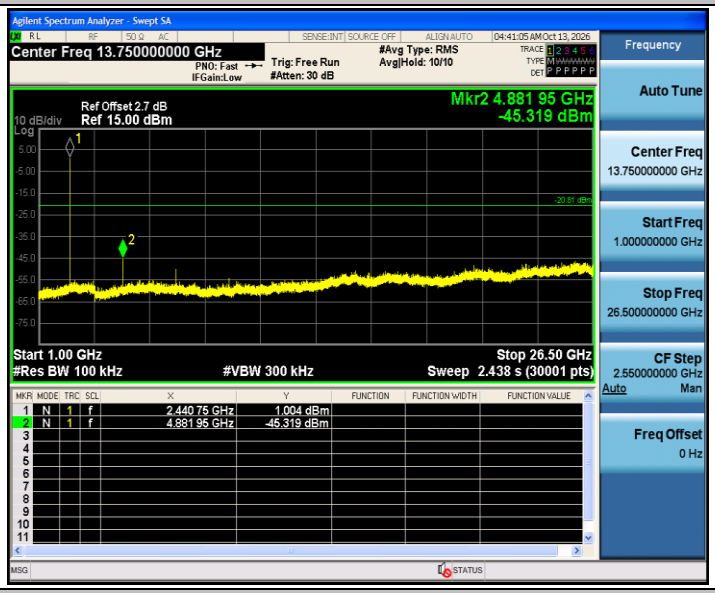
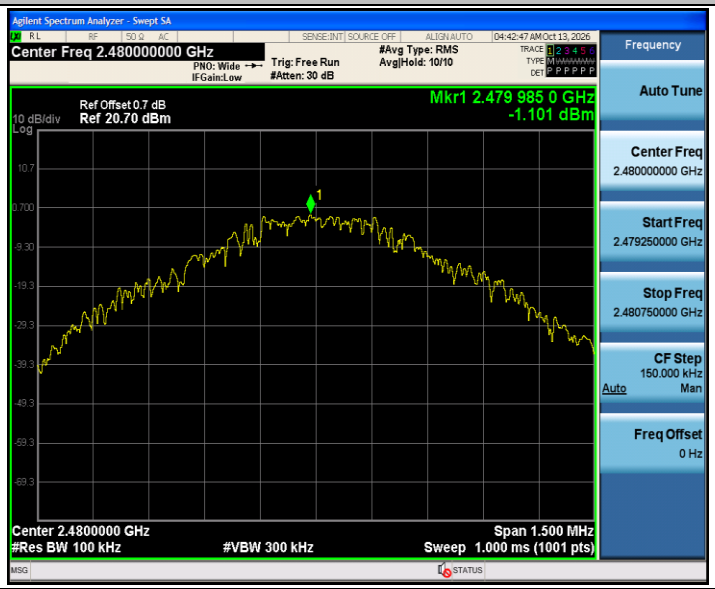


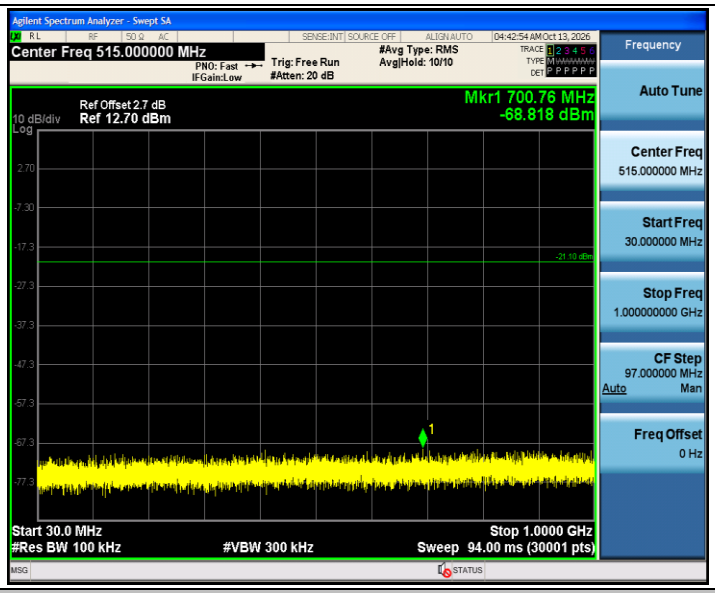
DH5_Ant1_2441_0~Reference



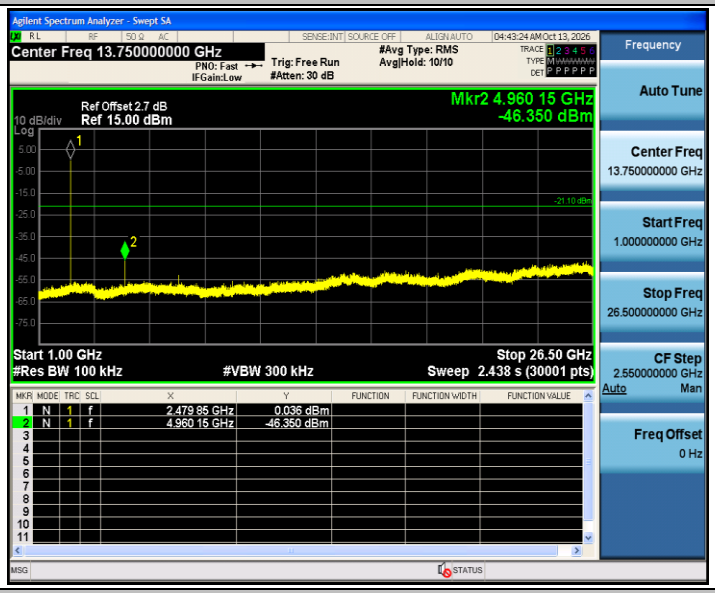
DH5_Ant1_2441_30~1000



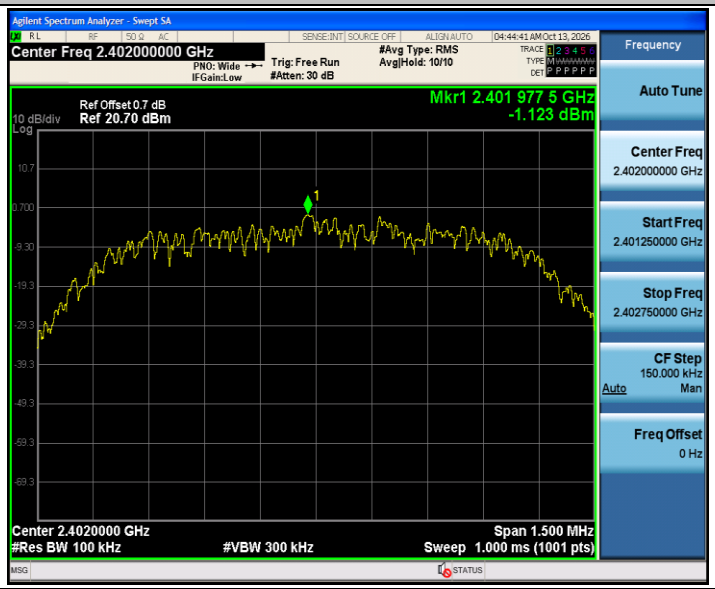
DH5_Ant1_2441_1000~26500

DH5_Ant1_2480_0~Reference

DH5_Ant1_2480_30~1000

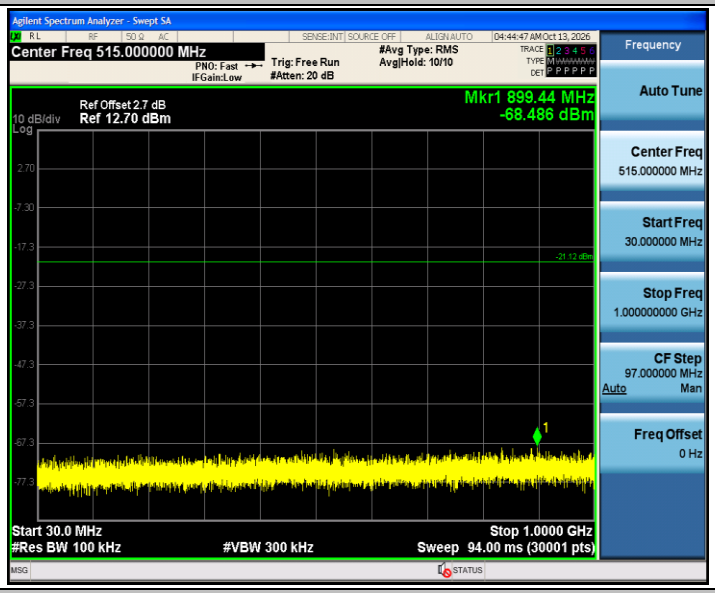
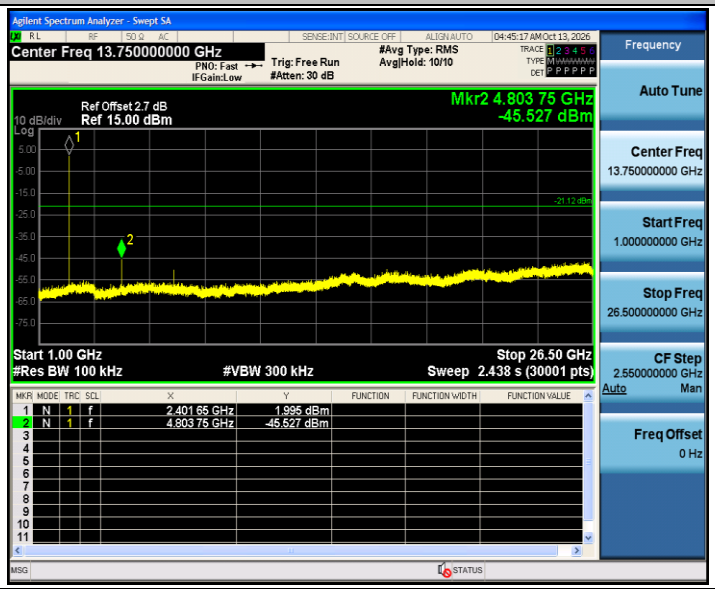


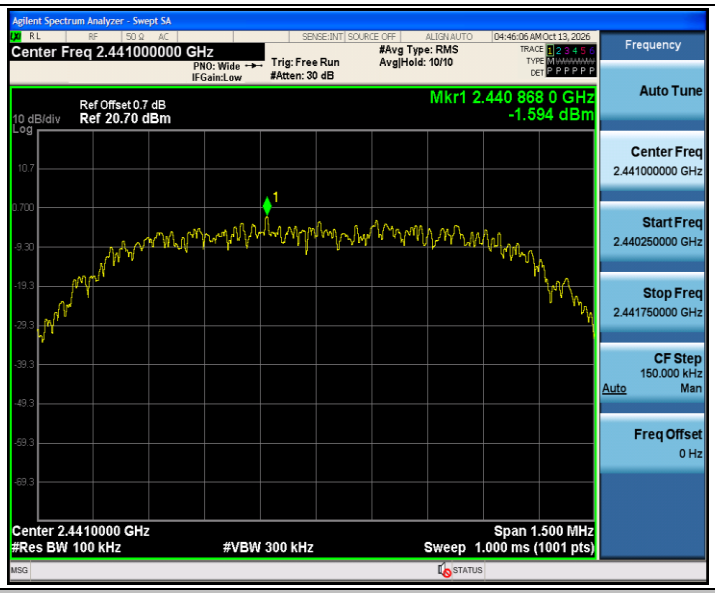
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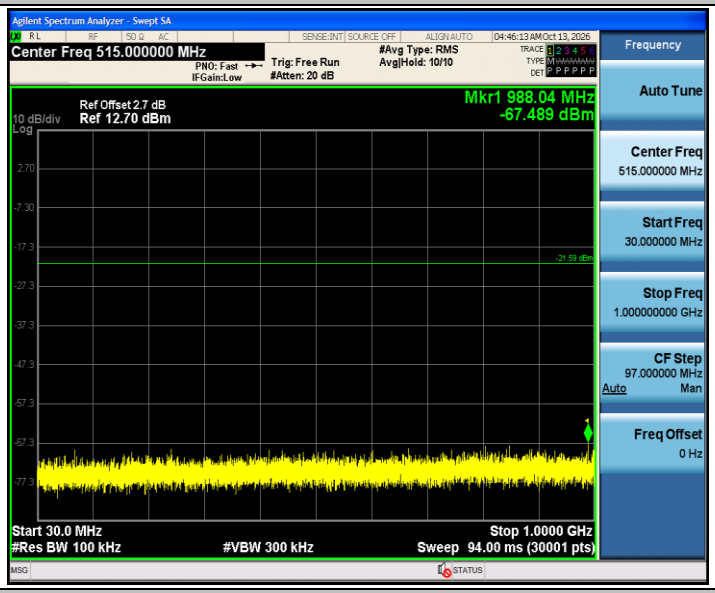
2DH5_Ant1_2402_0~Reference



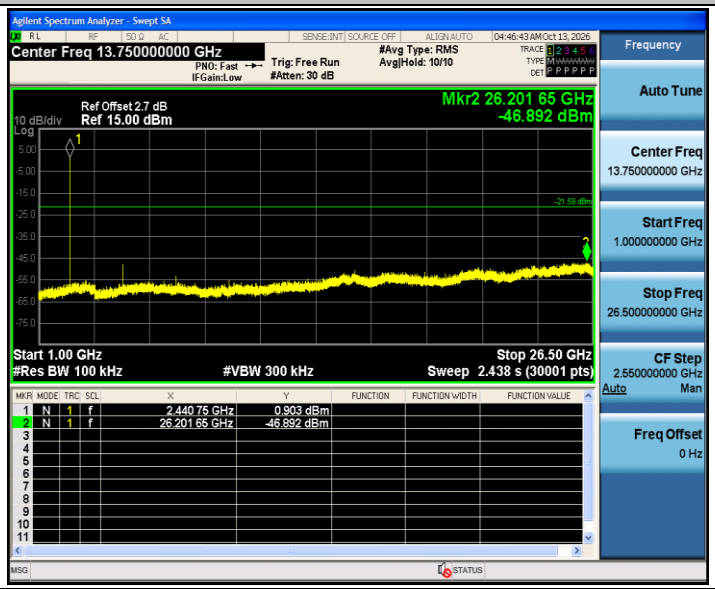
2DH5_Ant1_2402_30~1000

2DH5_Ant1_2402_1000~26500

2DH5_Ant1_2441_0~Reference

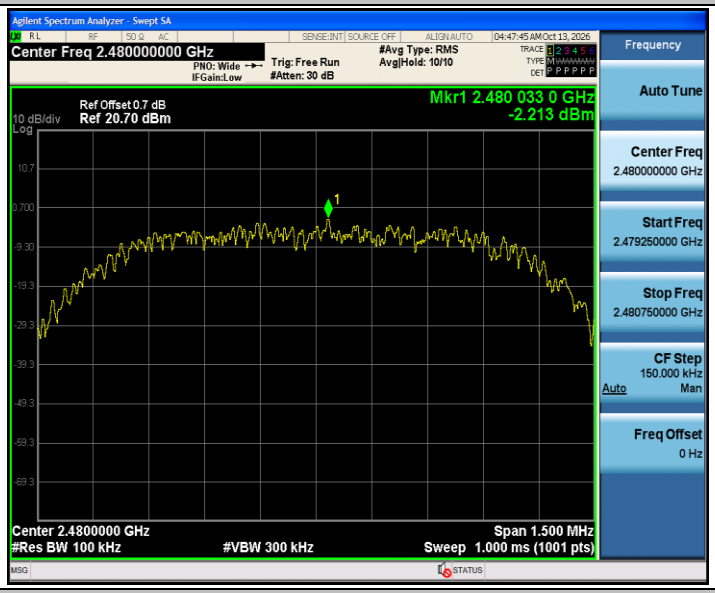
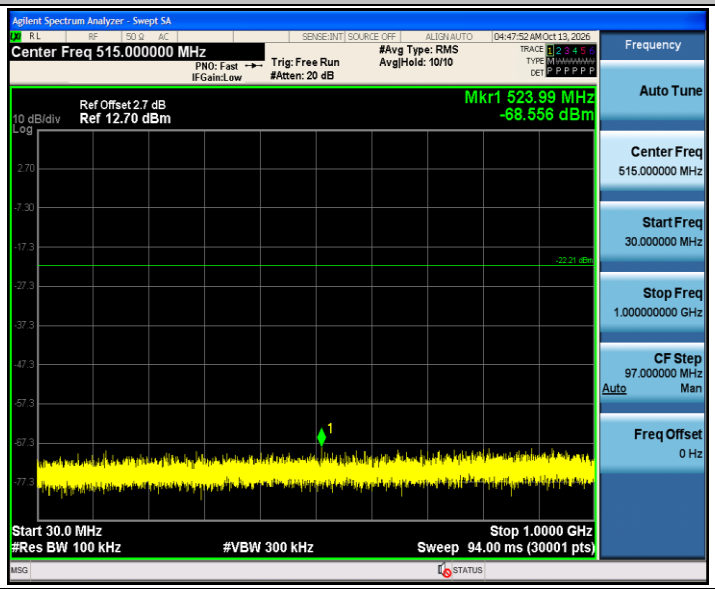


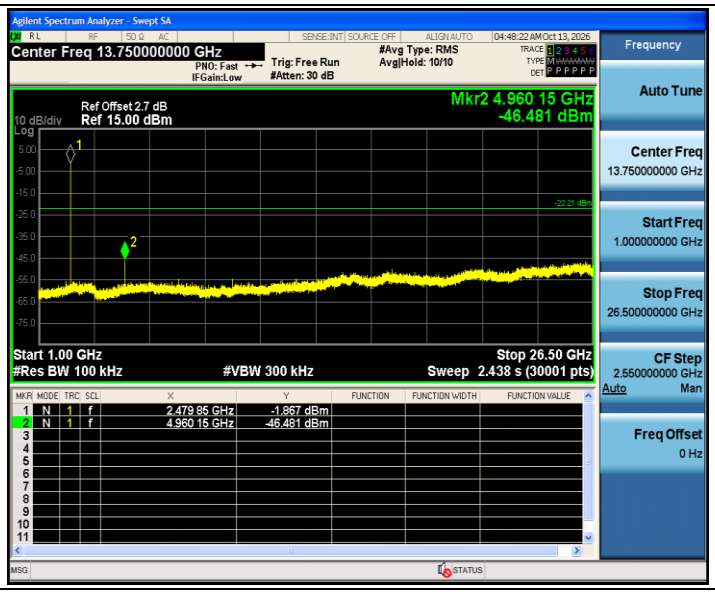
2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



2DH5_Ant1_2480_0~Reference

2DH5_Ant1_2480_30~1000

2DH5_Ant1_2480_1000~26500


Agilent Spectrum Analyzer - Swept SA
Center Freq 13.750000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 10/10
04:48:22 AM Oct 13, 2026
Ref Offset 2.7 dB
10 dB/div
Ref 15.00 dBm
Log
Mkr2 4.960 15 GHz
-46.481 dBm
-22.21 dBm
Start 1.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 26.50 GHz
Sweep 2.438 s (30001 pts)
1 N 1 f 2.479 85 GHz -1.867 dBm
2 N 1 f 4.960 15 GHz -46.481 dBm
Frequency
Auto Tune
Center Freq
13.750000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
2.550000000 GHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.92	3.76	77.66	1.10	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.75	77.60	1.10	---	---