Case No. : GTS20250603007-2-01	
Ambient Condition: 22 ℃, 51 %RH	
According Standard: ■Part15C	
Test Date: 2025.6.11	**Test Engineer:** Evan ouyang

Appendix A.1: 20dB Emission Bandwidth

Test Result

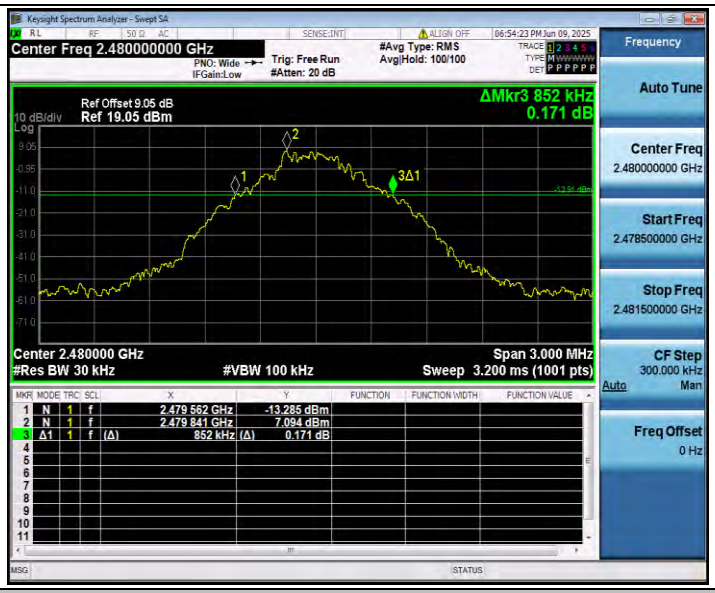
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.792	2401.604	2402.396	---	---
		2441	0.822	2440.577	2441.399	---	---
		2480	0.852	2479.562	2480.414	---	---
2DH1	Ant1	2402	1.266	2401.373	2402.639	---	---
		2441	1.227	2440.373	2441.600	---	---
		2480	1.230	2479.397	2480.627	---	---
3DH1	Ant1	2402	1.251	2401.370	2402.621	---	---
		2441	1.230	2440.394	2441.624	---	---
		2480	1.251	2479.373	2480.624	---	---

Test Graphs

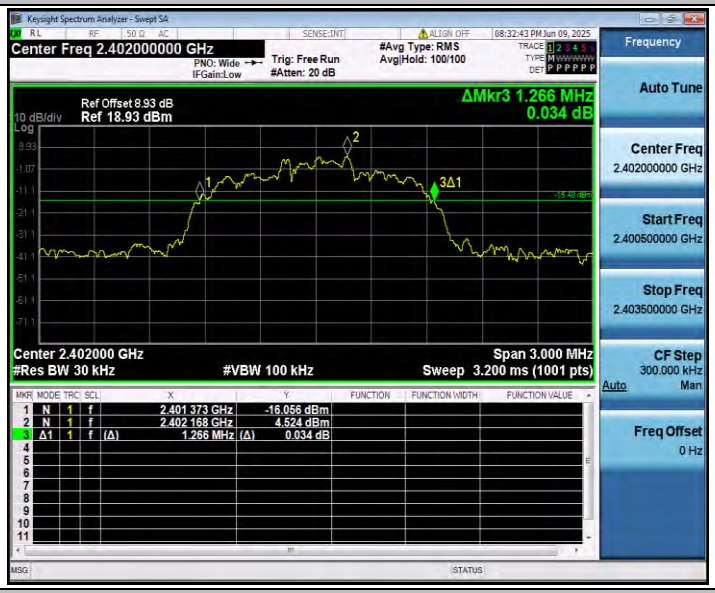
DH1_Ant1_2402

DH1_Ant1_2441

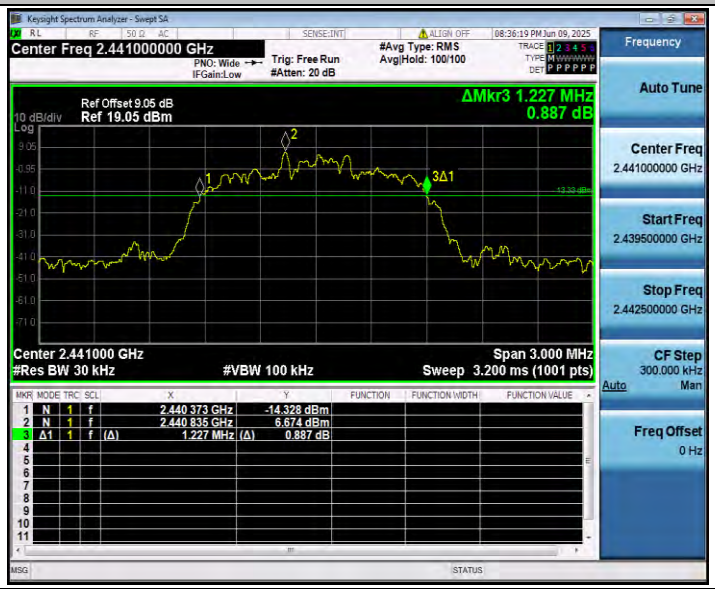
DH1_Ant1_2480

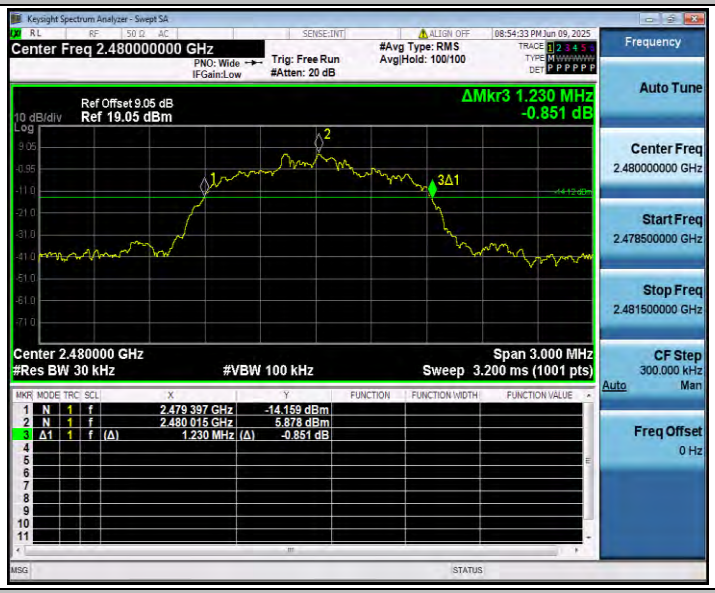
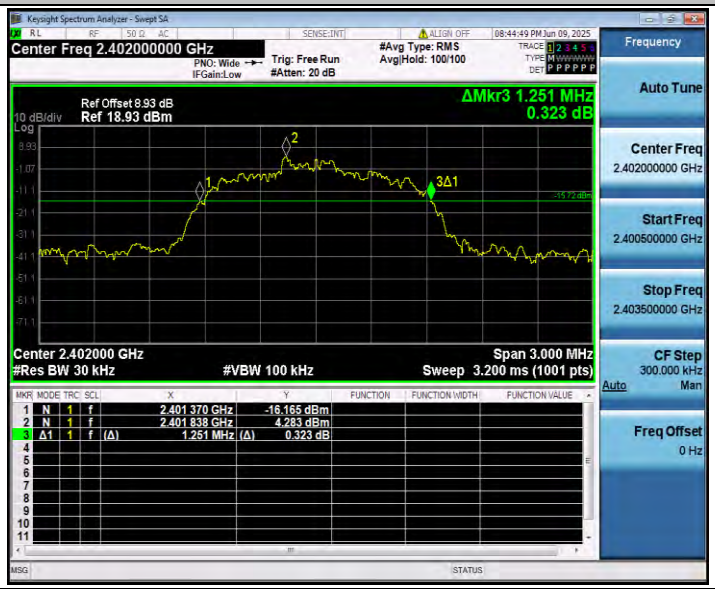


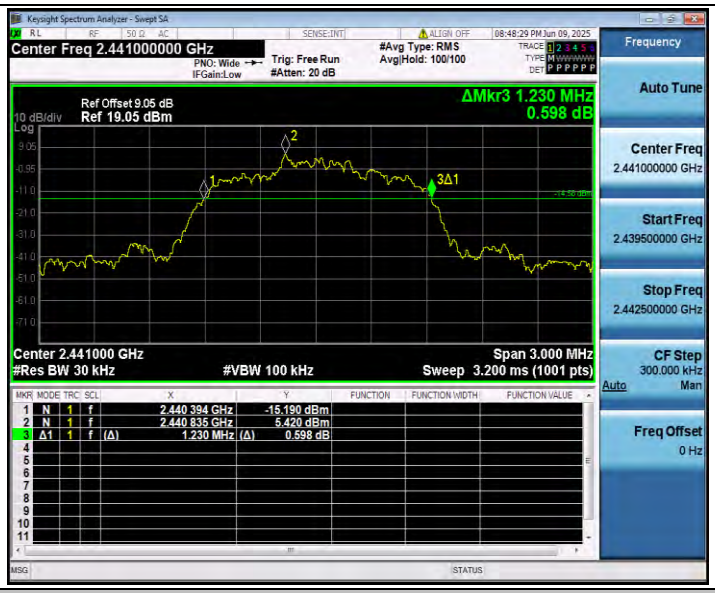
2DH1_Ant1_2402



2DH1_Ant1_2441



2DH1_Ant1_2480

3DH1_Ant1_2402

3DH1_Ant1_2441



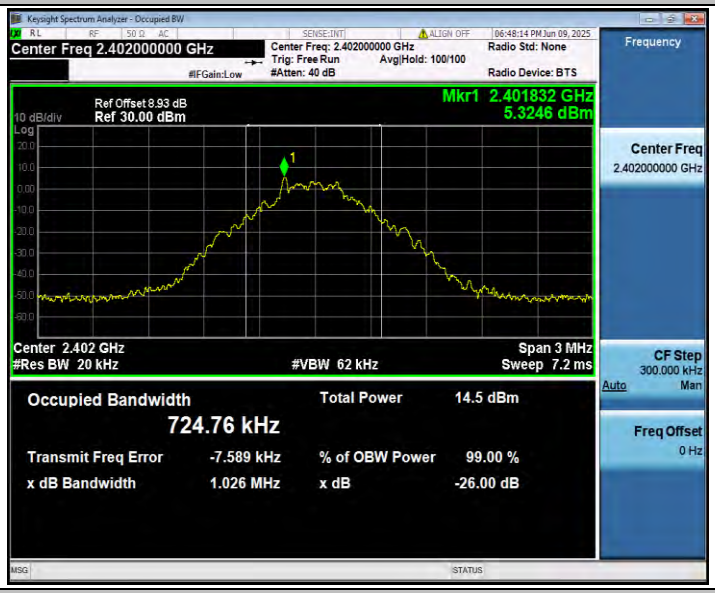
3DH1_Ant1_2480

Appendix A.2: Occupied Channel Bandwidth

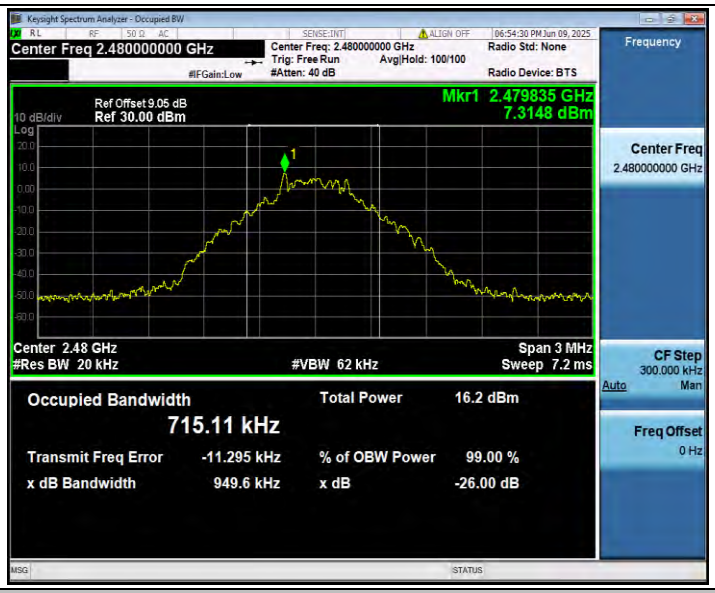
Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.72476	2401.6300	2402.3548	---	---
		2441	0.70868	2440.6344	2441.3431	---	---
		2480	0.71511	2479.6312	2480.3463	---	---
2DH1	Ant1	2402	1.1410	2401.4259	2402.5669	---	---
		2441	1.1305	2440.4373	2441.5678	---	---
		2480	1.1409	2479.4380	2480.5789	---	---
3DH1	Ant1	2402	1.1439	2401.4376	2402.5815	---	---
		2441	1.1345	2440.4398	2441.5743	---	---
		2480	1.1343	2479.4402	2480.5745	---	---

Test Graphs

DH1_Ant1_2402

DH1_Ant1_2441

DH1_Ant1_2480



2DH1_Ant1_2402

2DH1_Ant1_2441

2DH1_Ant1_2480

3DH1_Ant1_2402

3DH1_Ant1_2441

3DH1_Ant1_2480

Appendix A.3: Maximum conducted output power

Test Mode	Antenna	Freq(MHz)	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	1.15	≤30.00	PASS
		2441	3.20	≤30.00	PASS
		2480	3.95	≤30.00	PASS
2DH1	Ant1	2402	0.36	≤20.97	PASS
		2441	3.13	≤20.97	PASS
		2480	3.96	≤20.97	PASS
3DH1	Ant1	2402	0.36	≤20.97	PASS
		2441	3.09	≤20.97	PASS
		2480	4.00	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.998	≥0.852	PASS
		Hop_2441	1.002	≥0.852	PASS
		Hop_2480	1	≥0.852	PASS
2DH1	Ant1	Hop_2402	0.85	≥0.844	PASS
		Hop_2441	0.99	≥0.844	PASS
		Hop_2480	1.016	≥0.844	PASS
3DH1	Ant1	Hop_2402	1.04	≥0.834	PASS
		Hop_2441	1.182	≥0.834	PASS
		Hop_2480	1.156	≥0.834	PASS

Test Graphs

DH1_Ant1_Hop_2402

DH1_Ant1_Hop_2441

DH1_Ant1_Hop_2480

2DH1_Ant1_Hop_2402

2DH1_Ant1_Hop_2441

2DH1_Ant1_Hop_2480

3DH1_Ant1_Hop_2402

3DH1_Ant1_Hop_2441

3DH1_Ant1_Hop_2480

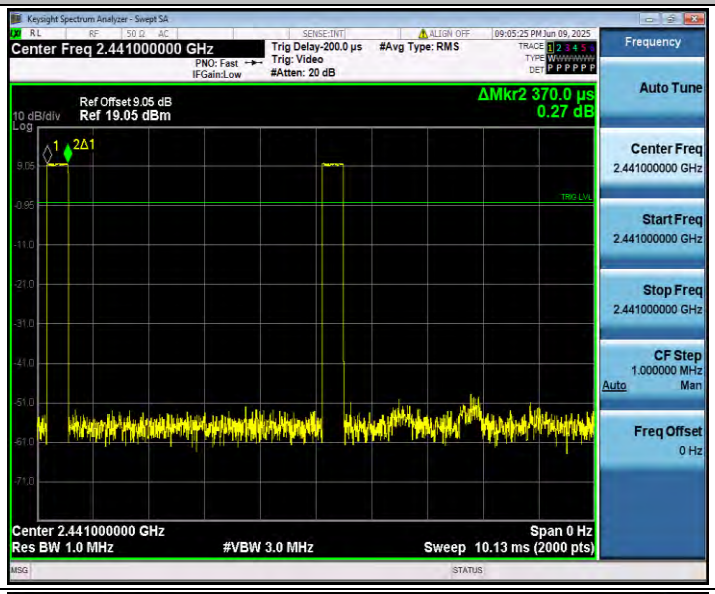
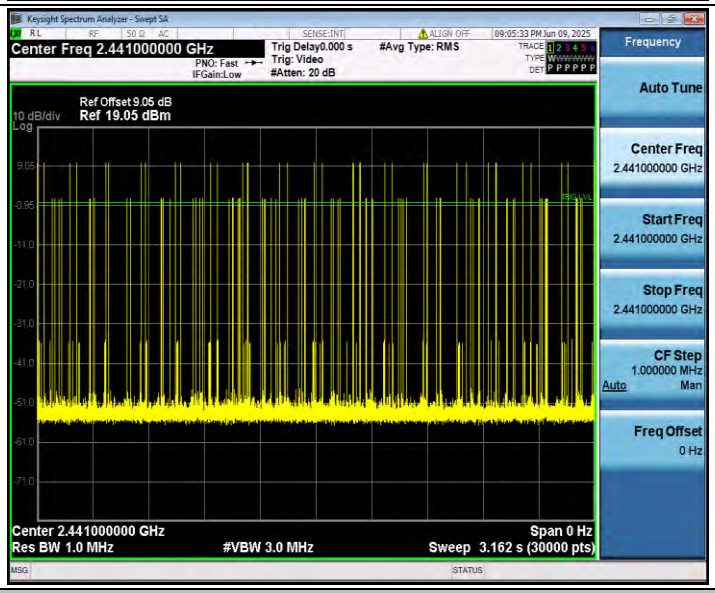

Keysight Spectrum Analyzer - Swept SA
Center Freq 2.479500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 40 dB
#Avg Type: RMS
Avg|Hold: 5000/5000
09:21:37 PM Jun 09, 2025
Ref Offset 8.73 dB
10 dB/div
Log
Ref 30.00 dBm
ΔMkr2 1.156 MHz
-0.411 dB
1
2Δ1
Start 2.478500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.480500 GHz
Sweep 1.000 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.479500000 GHz
Start Freq
2.478500000 GHz
Stop Freq
2.480500000 GHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

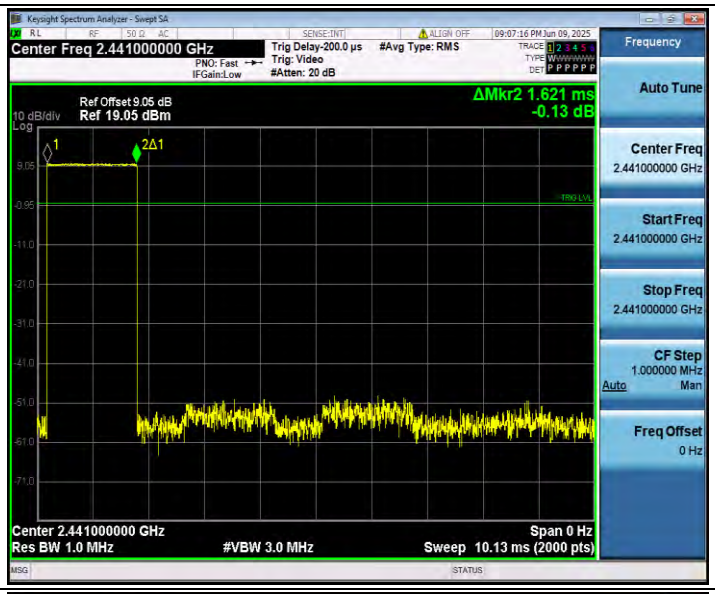
Appendix A.5: Time of occupancy

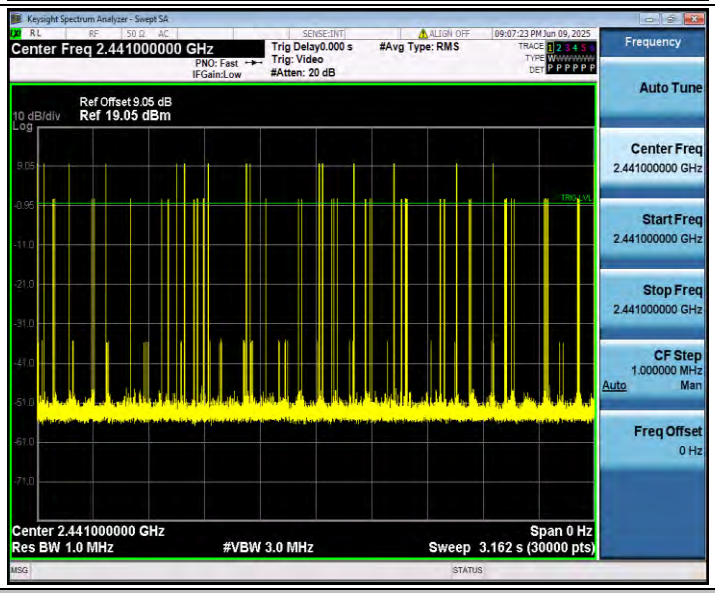
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.370	330	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.621	160	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.873	110	0.316	≤0.4	PASS
2DH1	Ant1	Hop	0.375	330	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.626	160	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.878	120	0.345	≤0.4	PASS
3DH1	Ant1	Hop	0.375	320	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.626	150	0.244	≤0.4	PASS
3DH5	Ant1	Hop	2.878	120	0.345	≤0.4	PASS

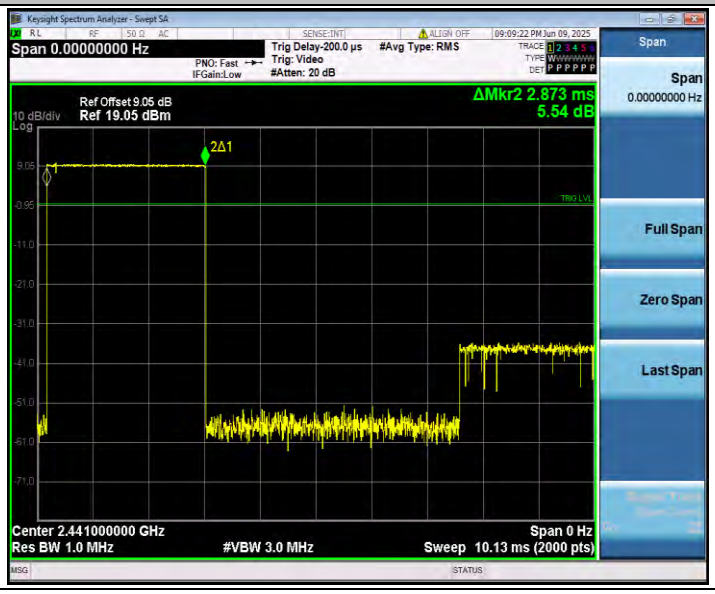
Test Graphs

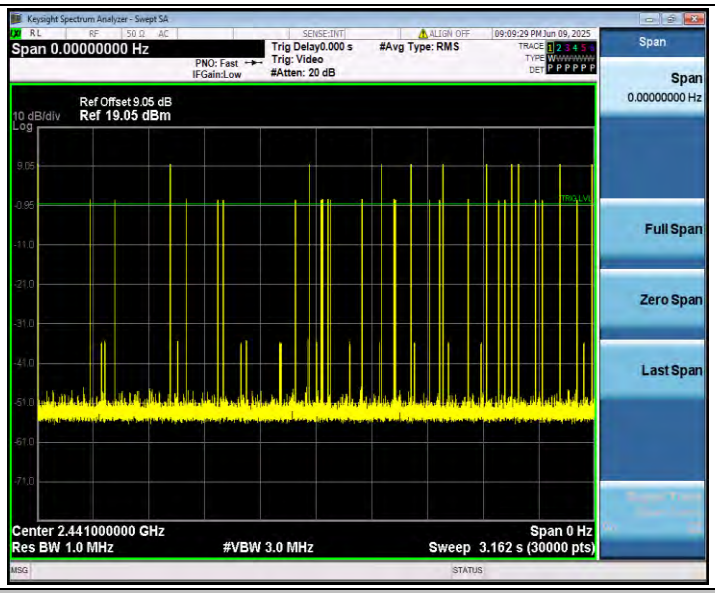
DH1_Ant1_Hop


DH3_Ant1_Hop


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.441000000 GHz
PNO: Fast
IFGain:Low
Trig Delay-200.0 µs
Trig: Video
#Atten: 20 dB
#Avg Type: RMS
09:07:16 PM Jun 09, 2025
Frequency
Auto Tune
Ref Offset 9.05 dB
10 dB/div
Ref 19.05 dBm
ΔMkr2 1.621 ms
-0.13 dB
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
Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz
Span 0 Hz
Sweep 10.13 ms (2000 pts)

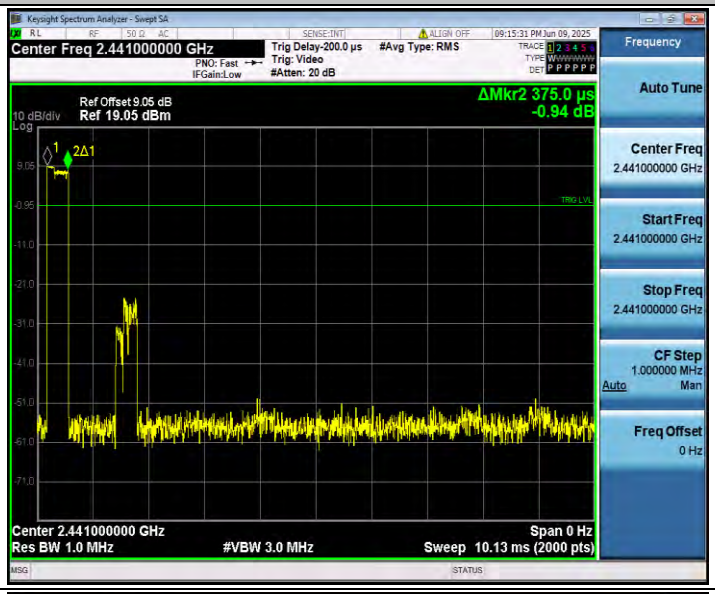

Keysight Spectrum Analyzer - Swept SA
Center Freq 2.441000000 GHz
PNO: Fast
IFGain:Low
Trig Delay0.000 s
Trig: Video
#Atten: 20 dB
#Avg Type: RMS
09:07:23 PM Jun 09, 2025
Frequency
Auto Tune
Ref Offset 9.05 dB
10 dB/div
Ref 19.05 dBm
Center Freq
2.441000000 GHz
Start Freq
2.441000000 GHz
Stop Freq
2.441000000 GHz
CF Step
1.000000 MHz
Auto
Man
Freq Offset
0 Hz
Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz
Span 0 Hz
Sweep 3.162 s (30000 pts)

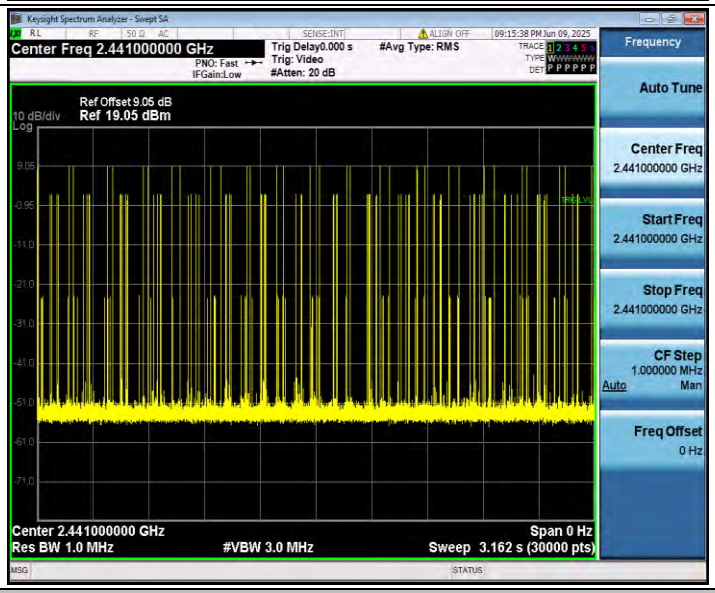
DH5_Ant1_Hop


Keysight Spectrum Analyzer - Swept SA
Span 0.00000000 Hz
PNO: Fast
IFGain:Low
Trig Delay-200.0 µs
Trig: Video
#Atten: 20 dB
#Avg Type: RMS
09:09:22 PM Jun 09, 2025
Span
Span
0.00000000 Hz
Ref Offset 9.05 dB
10 dB/div
Ref 19.05 dBm
ΔMkr2 2.873 ms
5.54 dB
Full Span
Zero Span
Last Span
Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz
Span 0 Hz
Sweep 10.13 ms (2000 pts)

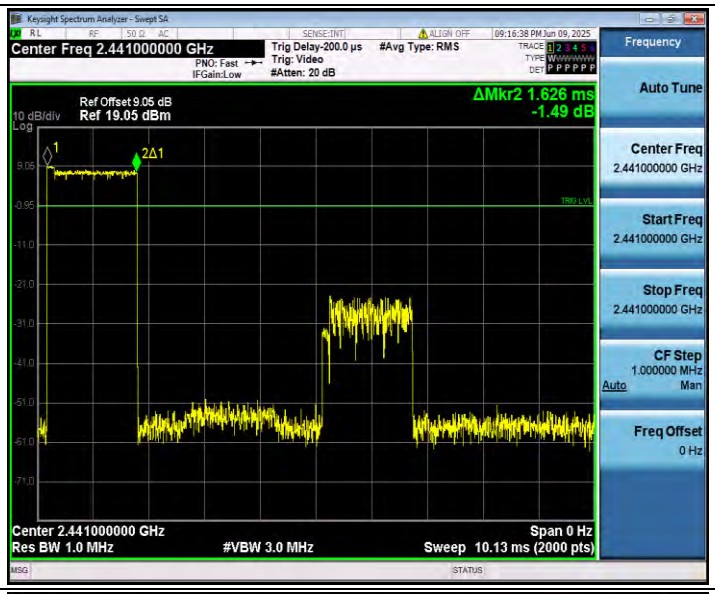


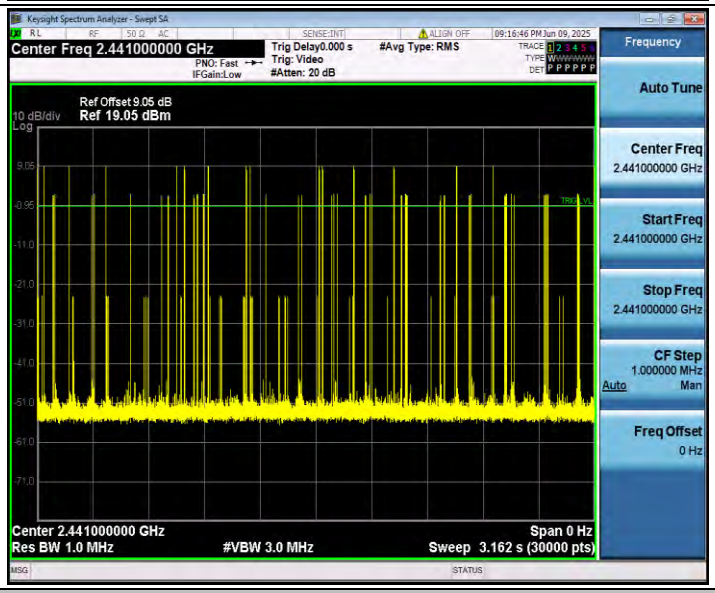
2DH1_Ant1_Hop



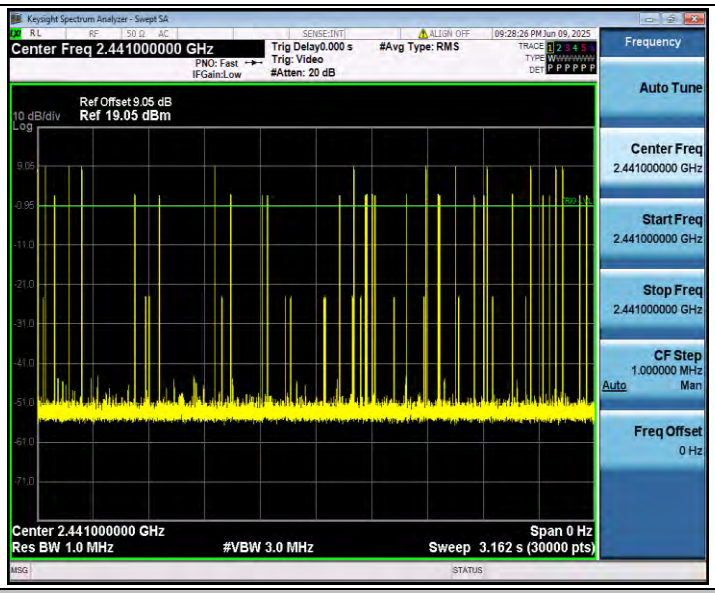


2DH3_Ant1_Hop

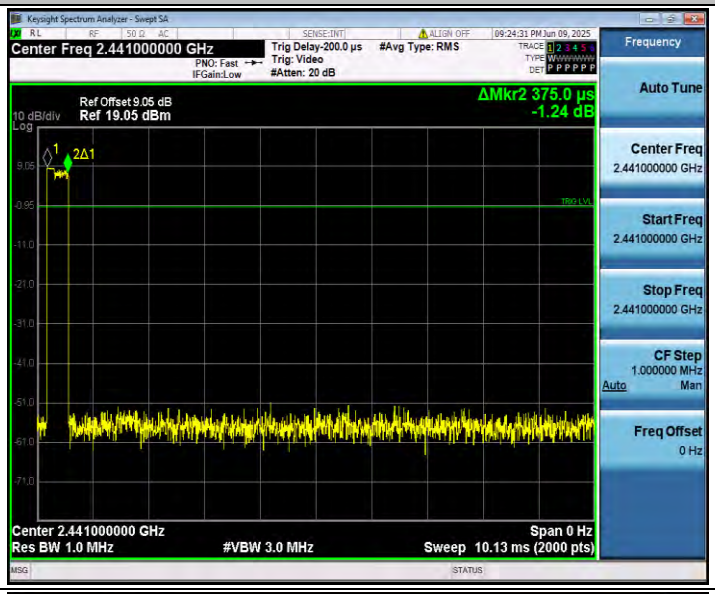


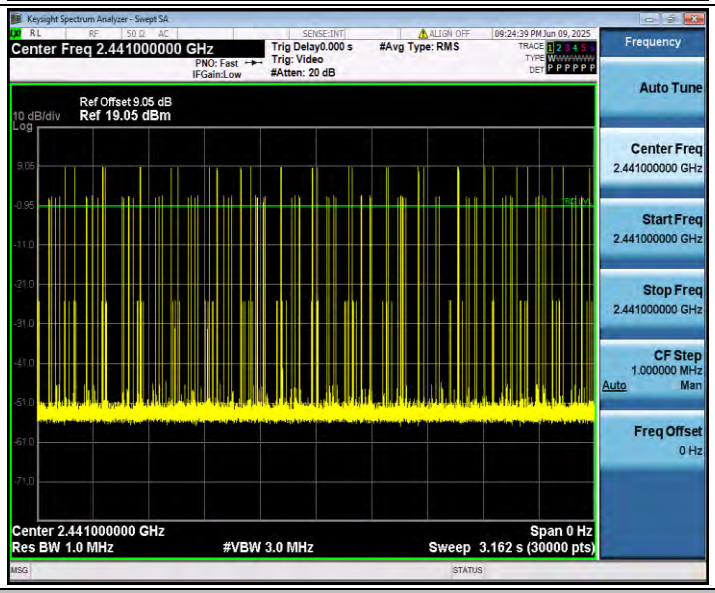


2DH5_Ant1_Hop

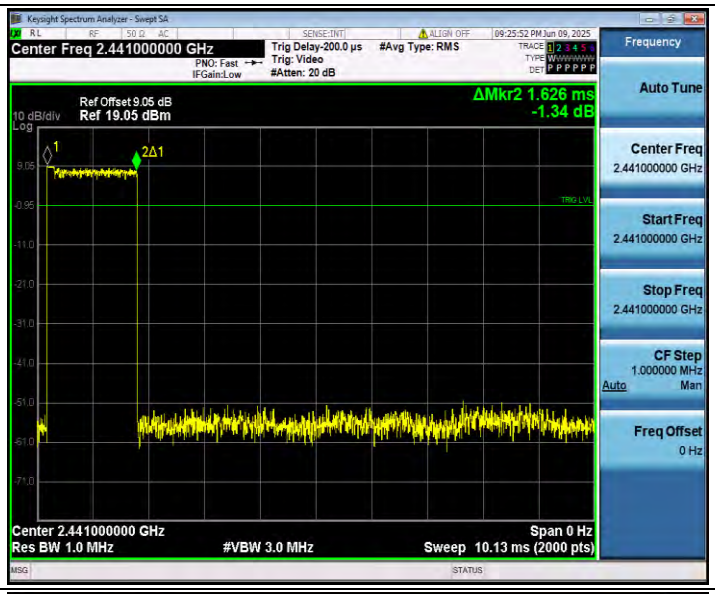


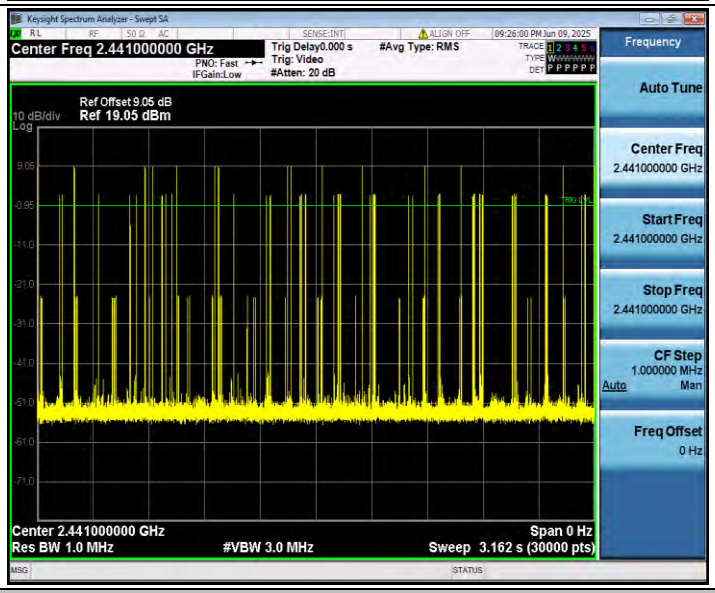
3DH1_Ant1_Hop



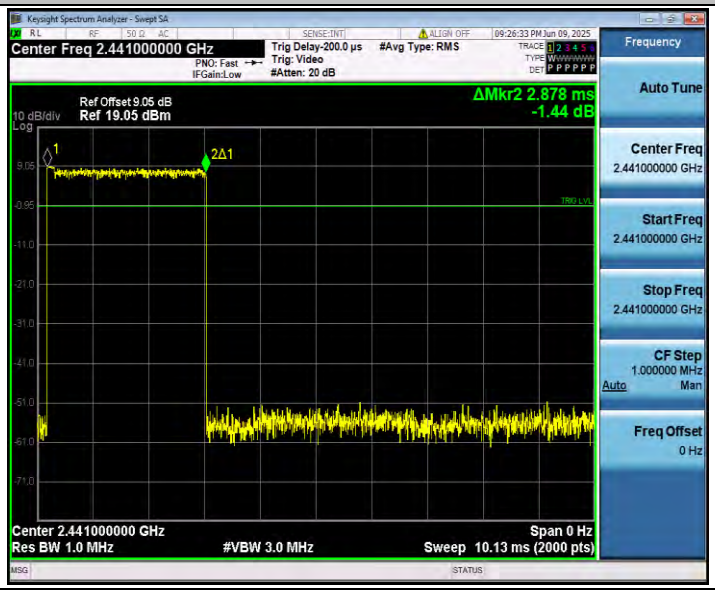


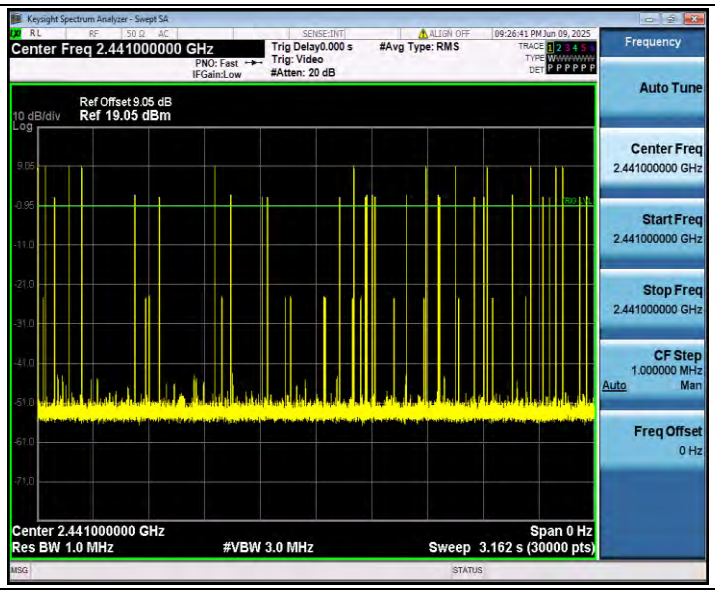
3DH3_Ant1_Hop





3DH5_Ant1_Hop



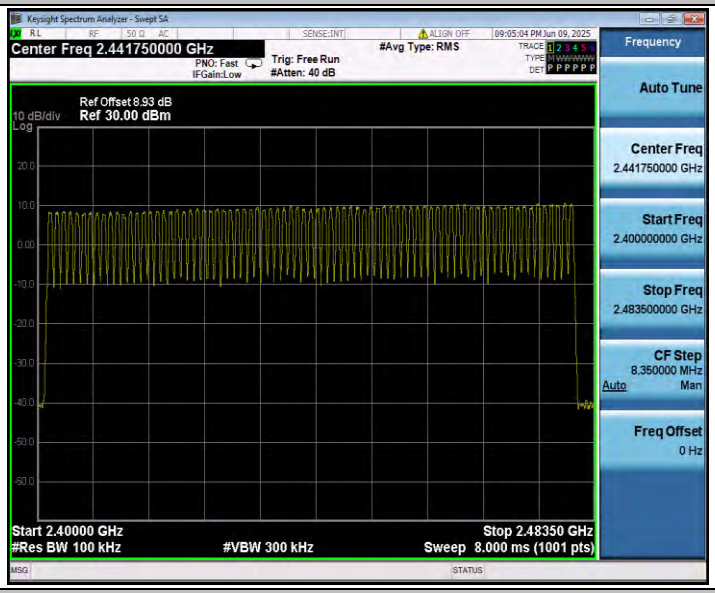
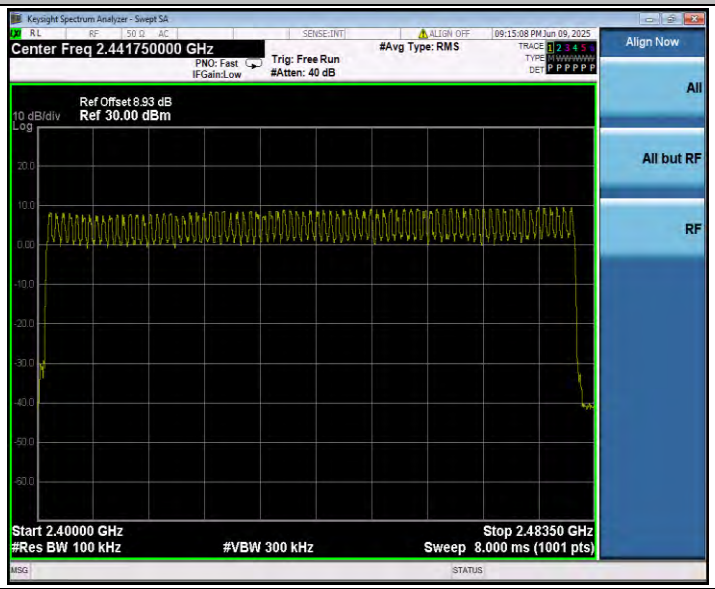

Keysight Spectrum Analyzer - Swept SA
Center Freq 2.441000000 GHz
PNO: Fast
IFGain:Low
Trig Delay0.000 s
Trig: Video
#Atten: 20 dB
#Avg Type: RMS
09:26:41 PM Jun 09, 2025
Ref Offset 9.05 dB
10 dB/div
Log
Ref 19.05 dBm
9.05
-0.95
-11.0
-21.0
-31.0
-41.0
-51.0
-61.0
-71.0
Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz
Span 0 Hz
Sweep 3.162 s (30000 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
MSG
STATUS

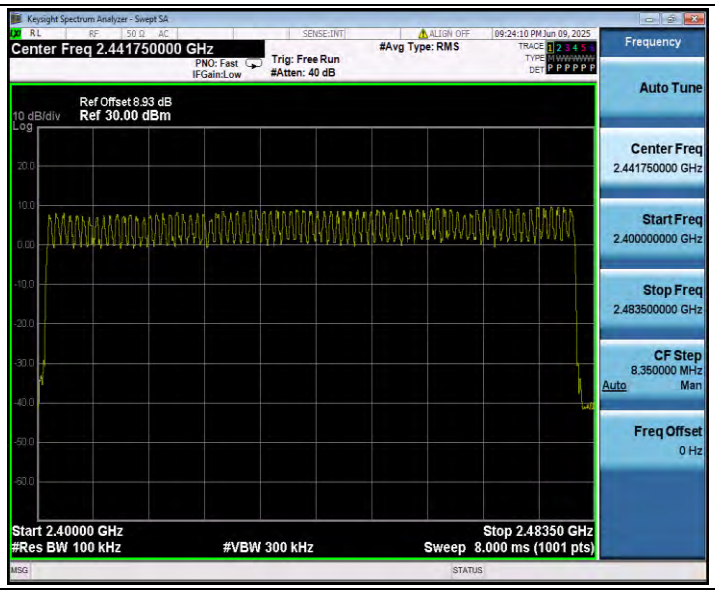
Appendix A.6: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

Test Graphs

DH1_Ant1_Hop

2DH1_Ant1_Hop

3DH1_Ant1_Hop

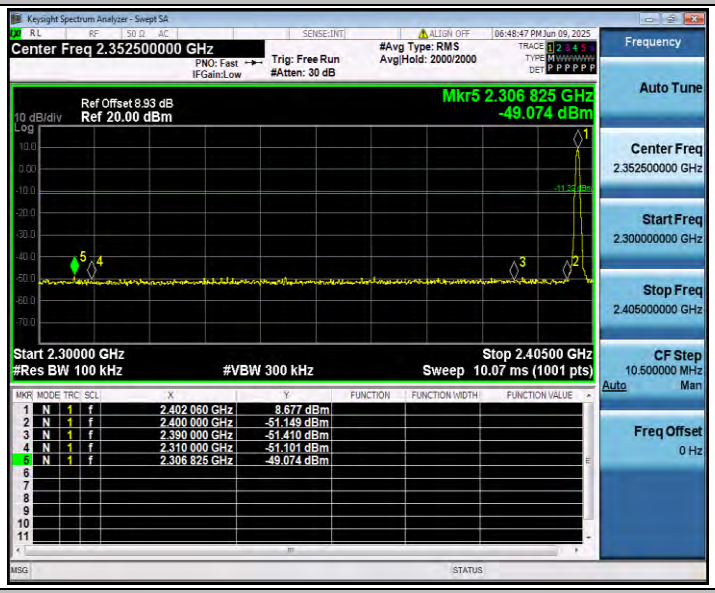
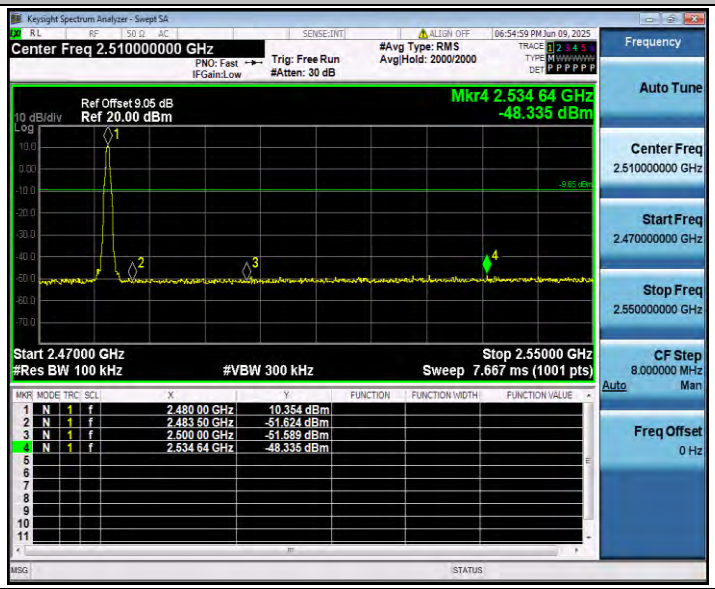

Keysight Spectrum Analyzer - Swept SA
Center Freq 2.441750000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
#Avg Type: RMS
09:24:10 PM Jun 09, 2025
Ref Offset 8.93 dB
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Start 2.40000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.48350 GHz
Sweep 8.000 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

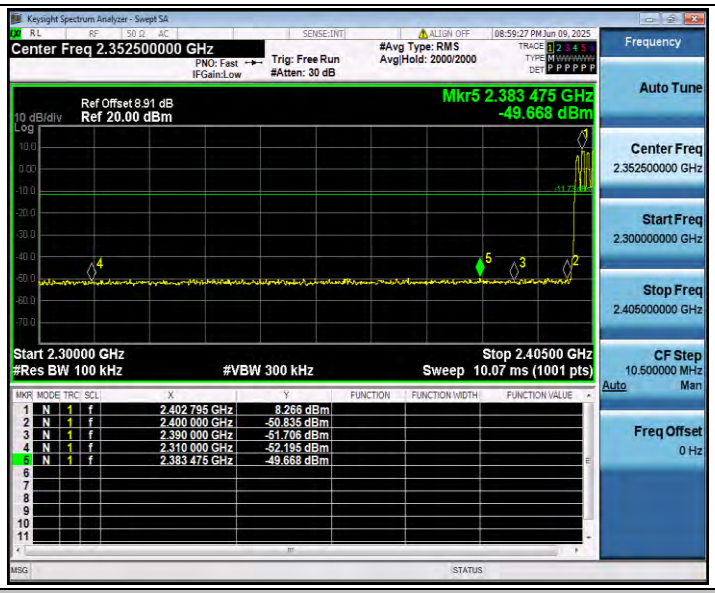
Appendix A.7: Band edge measurements

Test Result

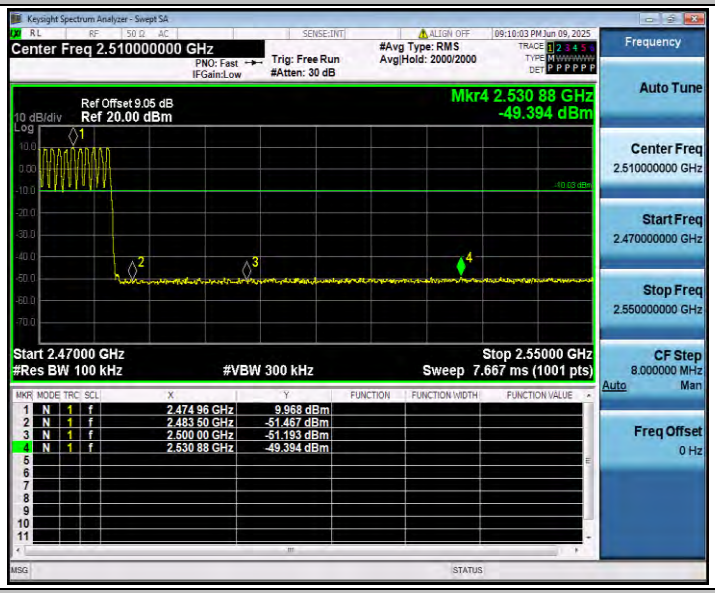
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	8.68	-49.07	≤-11.32	PASS
		High	2480	10.35	-48.34	≤-9.65	PASS
		Low	Hop_2402	8.27	-49.67	≤-11.73	PASS
		High	Hop_2480	9.97	-49.39	≤-10.03	PASS
2DH1	Ant1	Low	2402	8.29	-47.59	≤-11.71	PASS
		High	2480	10.03	-49.16	≤-9.97	PASS
		Low	Hop_2402	7.67	-49.7	≤-12.33	PASS
		High	Hop_2480	9.09	-48.96	≤-10.91	PASS
3DH1	Ant1	Low	2402	8.26	-45.75	≤-11.74	PASS
		High	2480	9.91	-48.97	≤-10.09	PASS
		Low	Hop_2402	7.45	-48.9	≤-12.55	PASS
		High	Hop_2480	9.59	-48.89	≤-10.41	PASS

Test Graphs

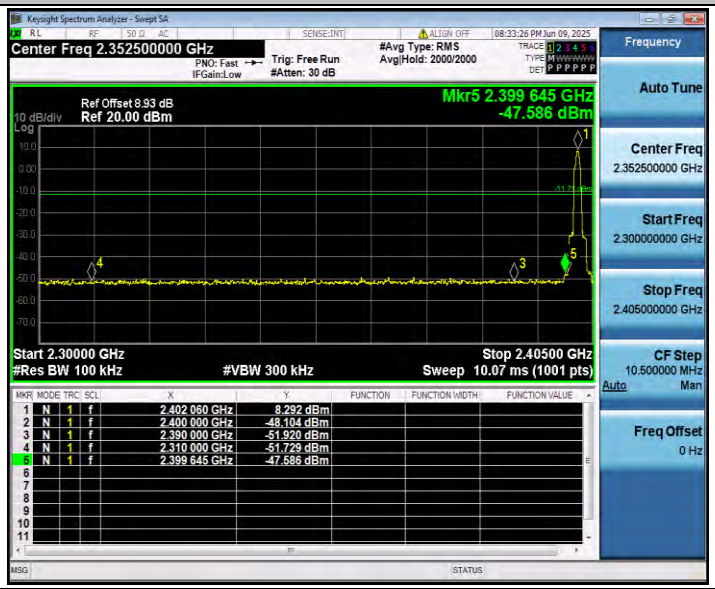
DH1_Ant1_Low_2402

DH1_Ant1_High_2480

DH1_Ant1_Low_Hop_2402

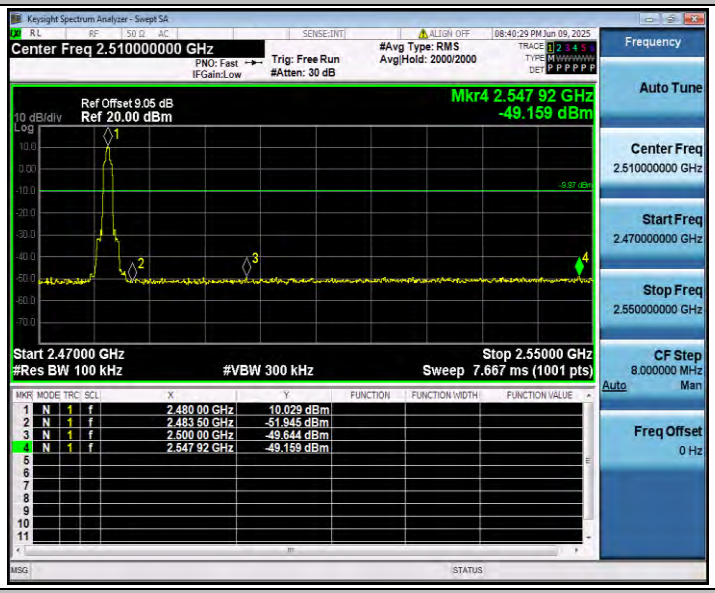
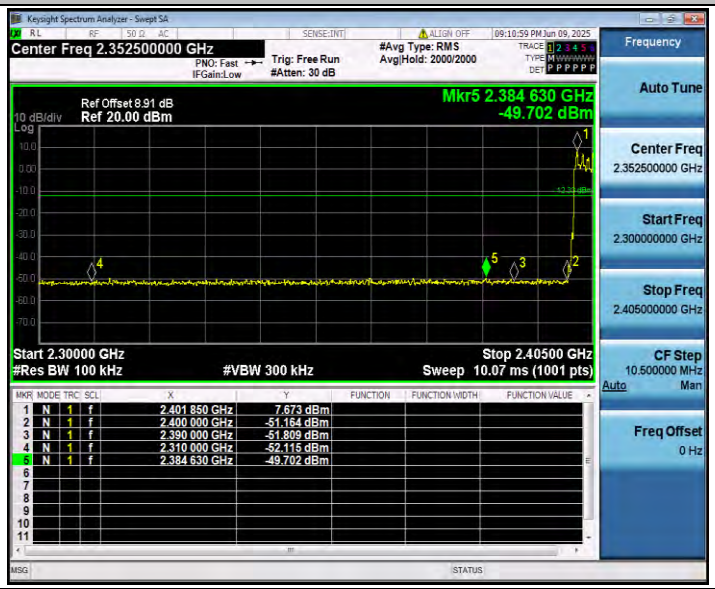


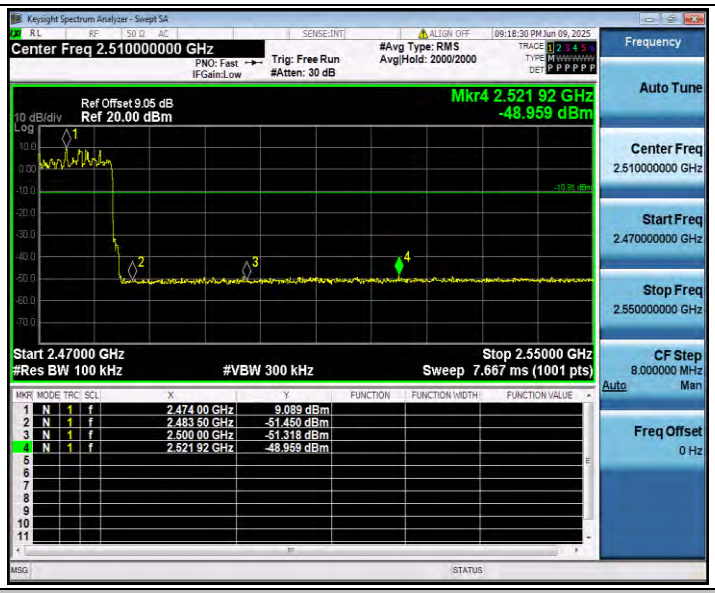
DH1_Ant1_High_Hop_2480



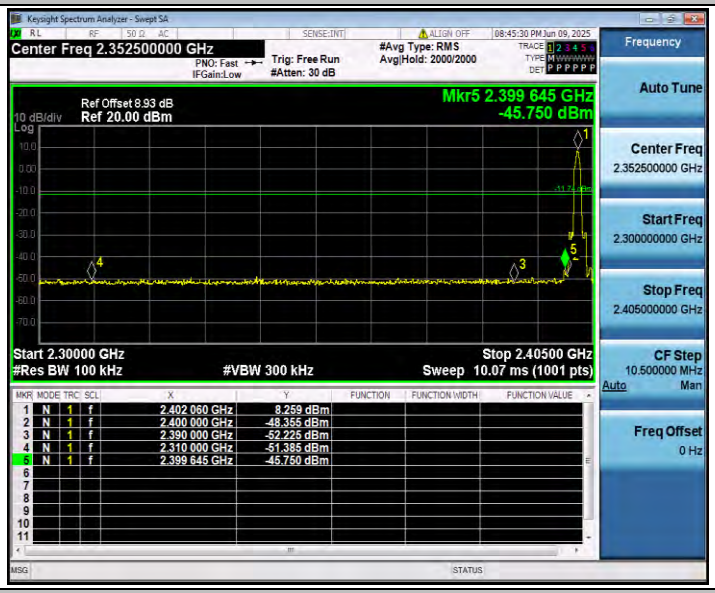
2DH1_Ant1_Low_2402



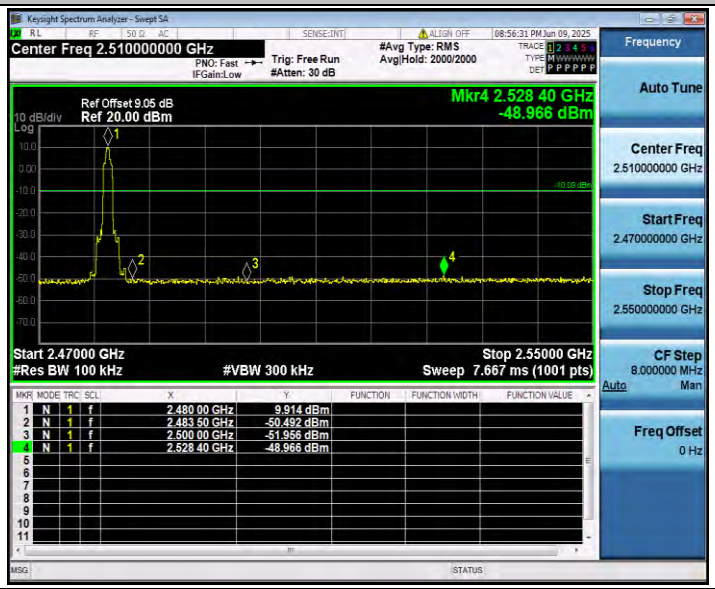
2DH1_Ant1_High_2480

2DH1_Ant1_Low_Hop_2402

2DH1_Ant1_High_Hop_2480

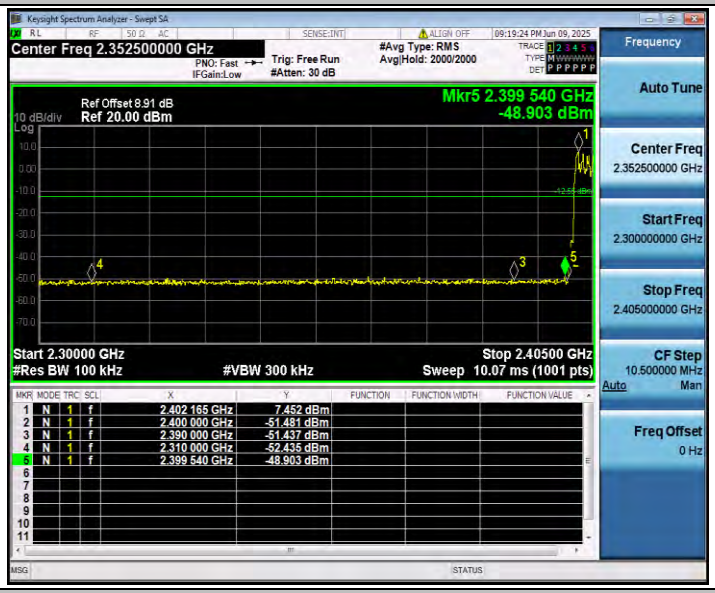


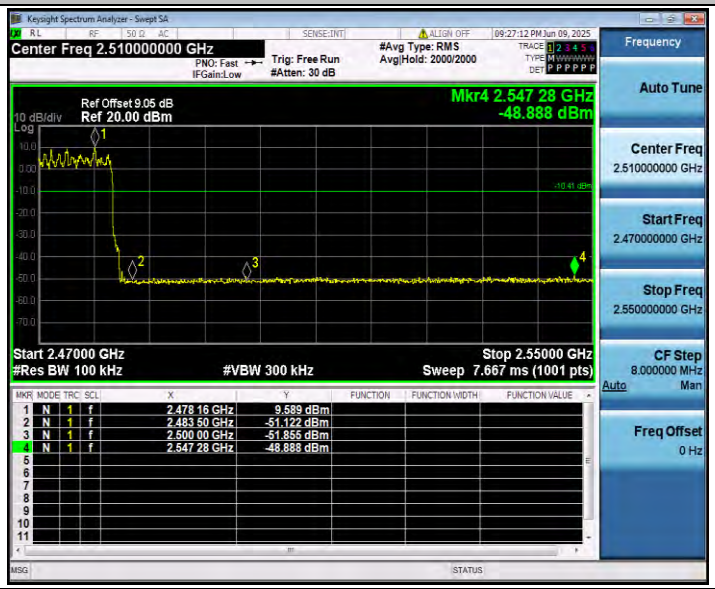
3DH1_Ant1_Low_2402



3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402


3DH1_Ant1_High_Hop_2480


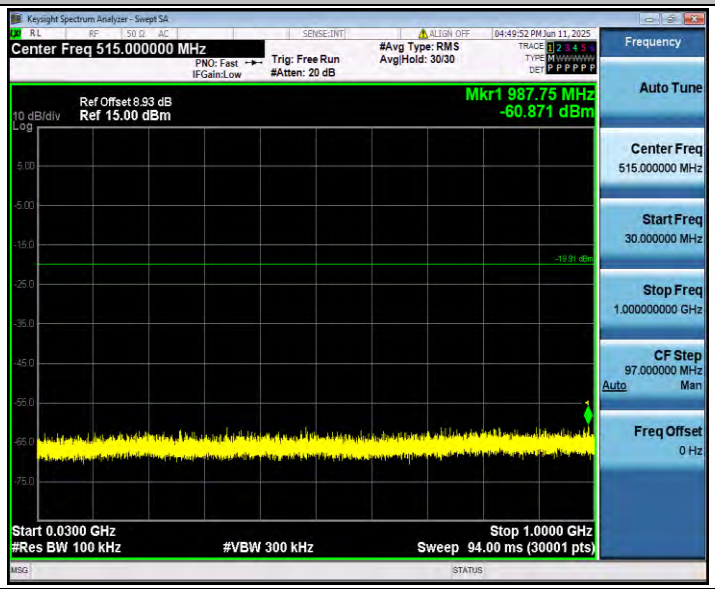
Appendix A.8: Conducted Spurious Emission

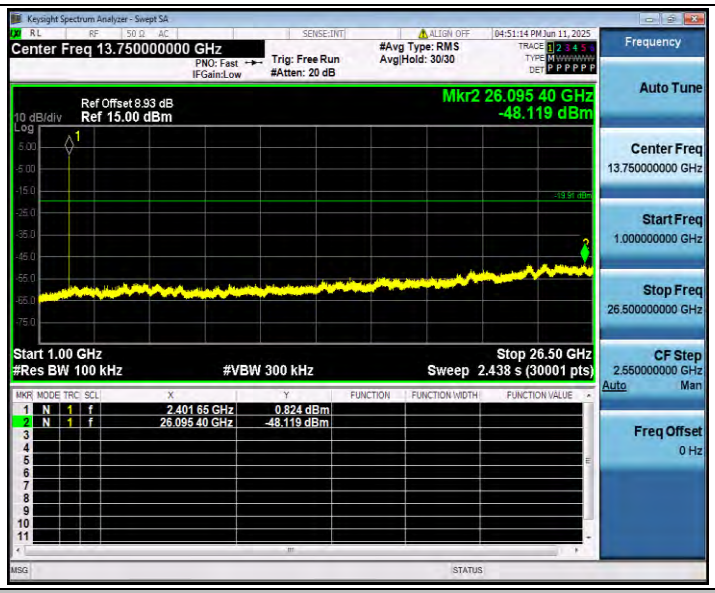
Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	0.09	0.09	---	PASS
			30~1000	0.09	-60.87	≤-19.91	PASS
			1000~26500	0.09	-48.12	≤-19.91	PASS
		2441	Reference	2.30	2.30	---	PASS
			30~1000	2.30	-60.3	≤-17.7	PASS
			1000~26500	2.30	-47.62	≤-17.7	PASS
		2480	Reference	3.01	3.01	---	PASS
			30~1000	3.01	-60.71	≤-16.99	PASS
			1000~26500	3.01	-47.65	≤-16.99	PASS
2DH1	Ant1	2402	Reference	-0.33	-0.33	---	PASS
			30~1000	-0.33	-60.49	≤-20.33	PASS
			1000~26500	-0.33	-48	≤-20.33	PASS
		2441	Reference	1.73	1.73	---	PASS
			30~1000	1.73	-60.54	≤-18.27	PASS
			1000~26500	1.73	-47.53	≤-18.27	PASS
		2480	Reference	3.05	3.05	---	PASS
			30~1000	3.05	-60.77	≤-16.95	PASS
			1000~26500	3.05	-47.27	≤-16.95	PASS
3DH1	Ant1	2402	Reference	-0.89	-0.89	---	PASS
			30~1000	-0.89	-60.56	≤-20.89	PASS
			1000~26500	-0.89	-47.91	≤-20.89	PASS
		2441	Reference	2.36	2.36	---	PASS
			30~1000	2.36	-59.7	≤-17.64	PASS
			1000~26500	2.36	-47.58	≤-17.64	PASS
		2480	Reference	3.35	3.35	---	PASS
			30~1000	3.35	-59.98	≤-16.65	PASS
			1000~26500	3.35	-46.97	≤-16.65	PASS

Test Graphs

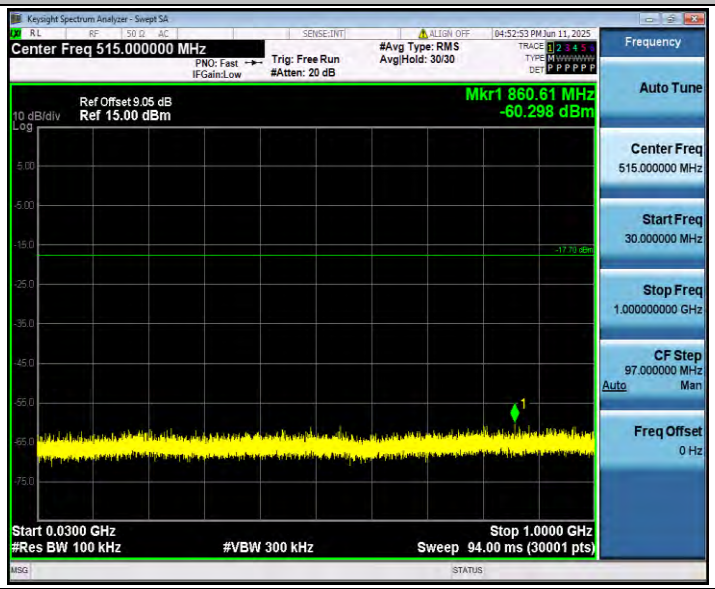
DH1_Ant1_2402_0~Reference

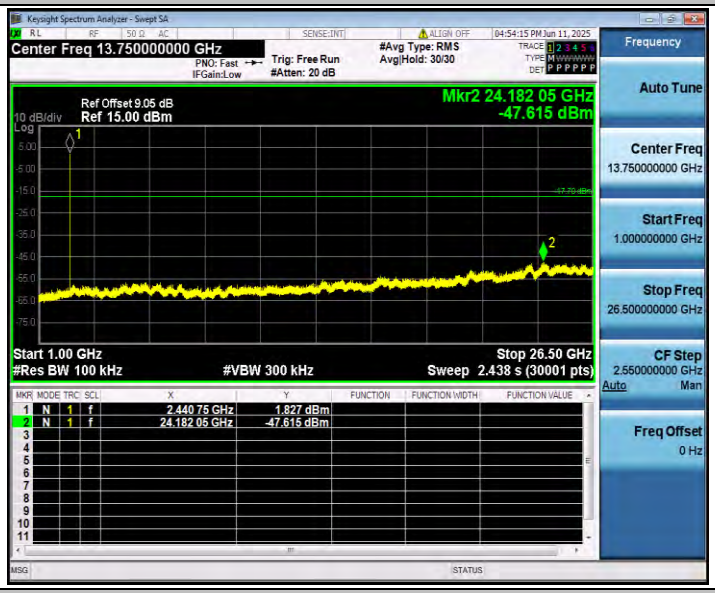
DH1_Ant1_2402_30~1000

DH1_Ant1_2402_1000~26500



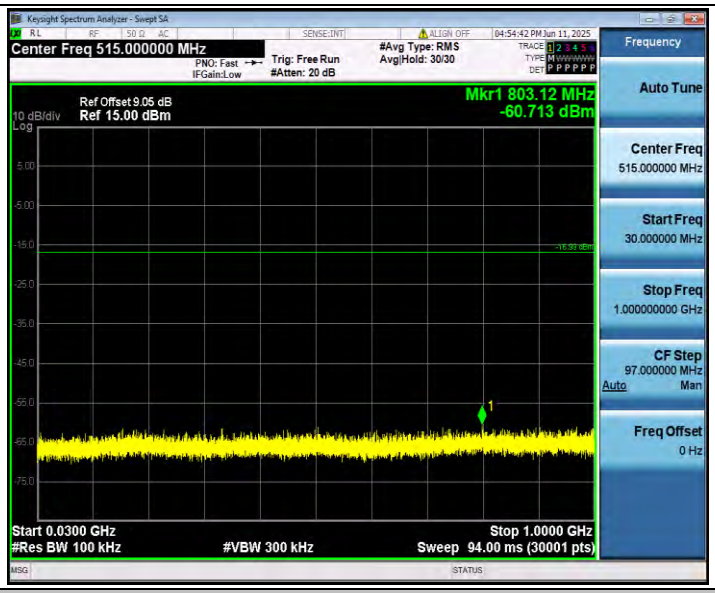
DH1_Ant1_2441_0~Reference

DH1_Ant1_2441_30~1000

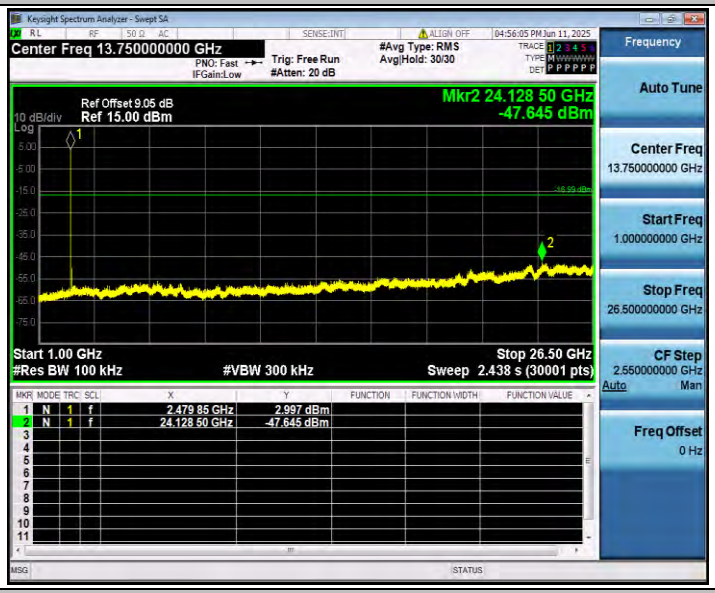


DH1_Ant1_2441_1000~26500

DH1_Ant1_2480_0~Reference

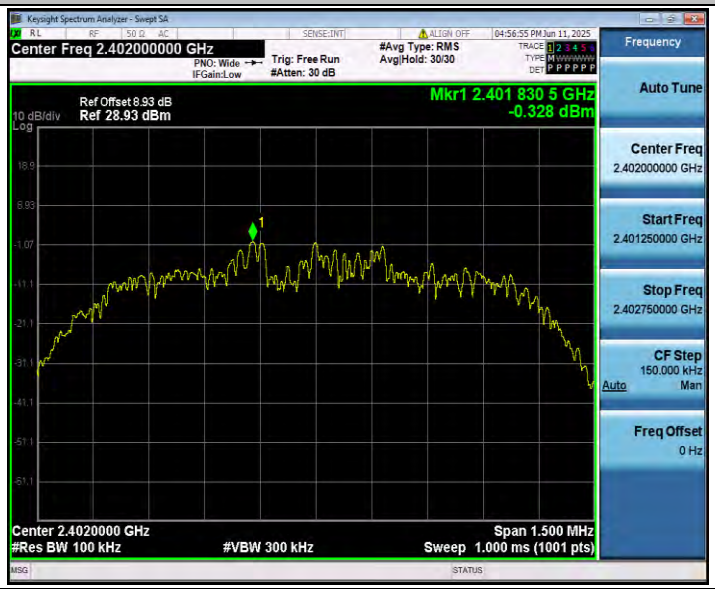
DH1_Ant1_2480_30~1000

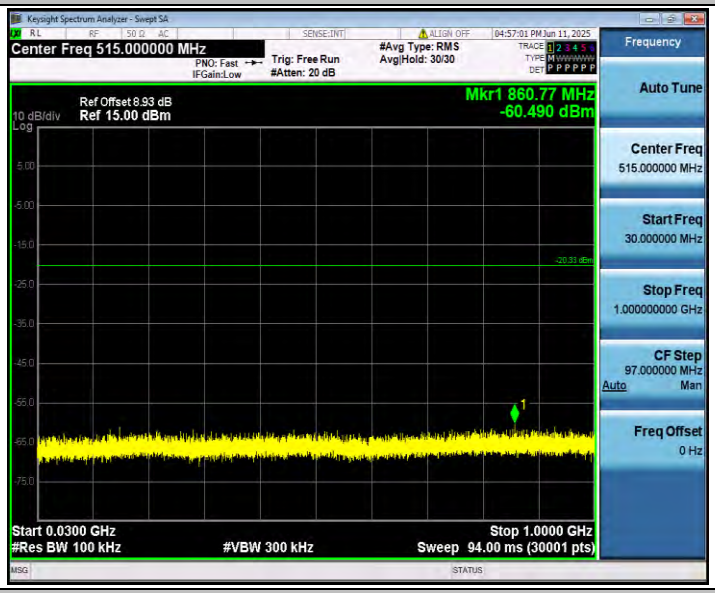


DH1_Ant1_2480_1000~26500



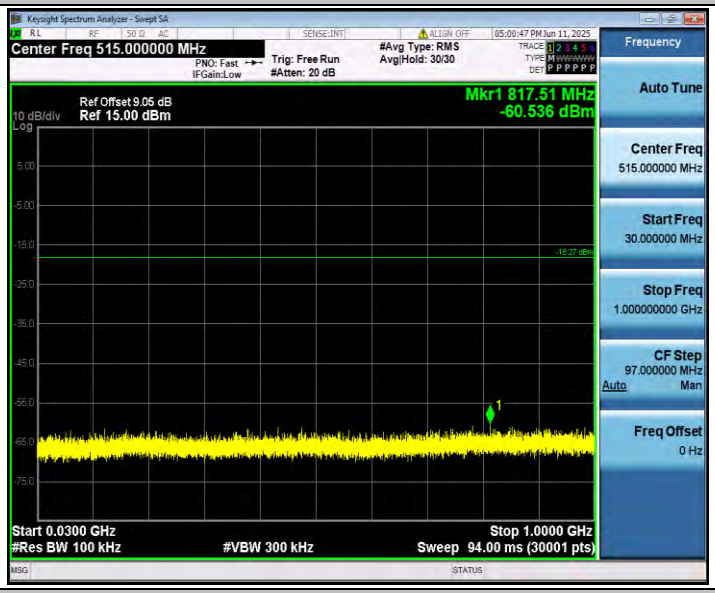
2DH1_Ant1_2402_0~Reference



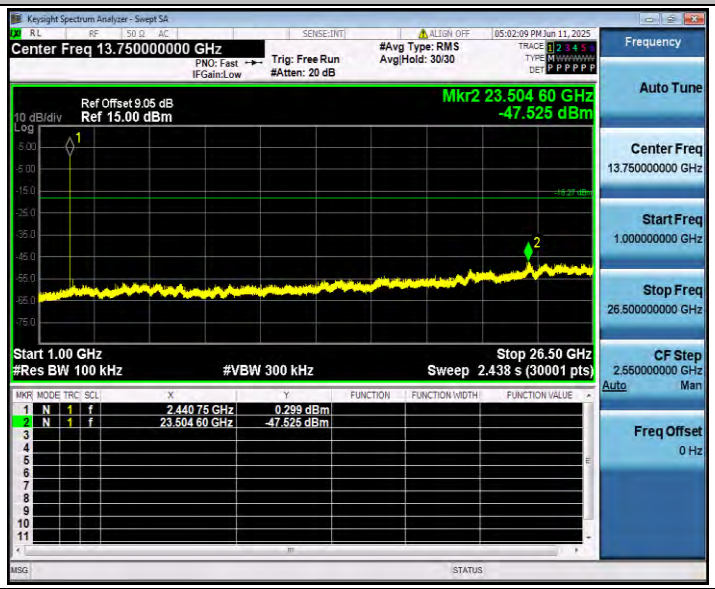
2DH1_Ant1_2402_30~1000

2DH1_Ant1_2402_1000~26500

2DH1_Ant1_2441_0~Reference

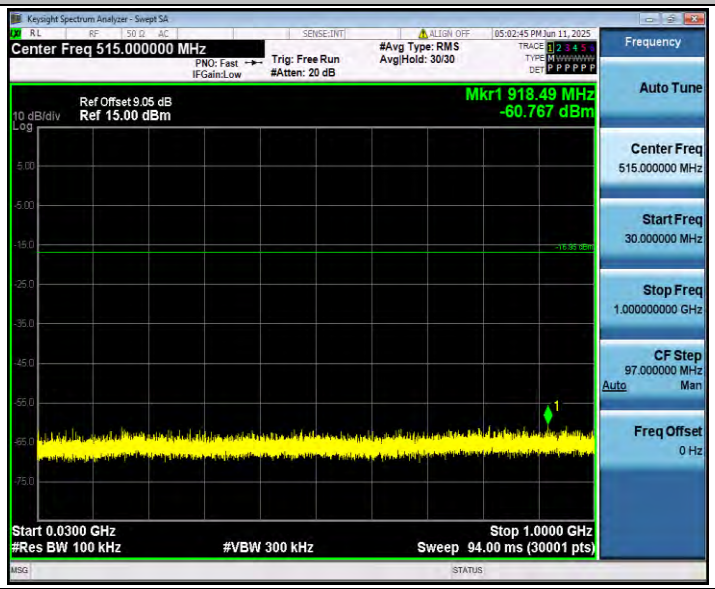
2DH1_Ant1_2441_30~1000

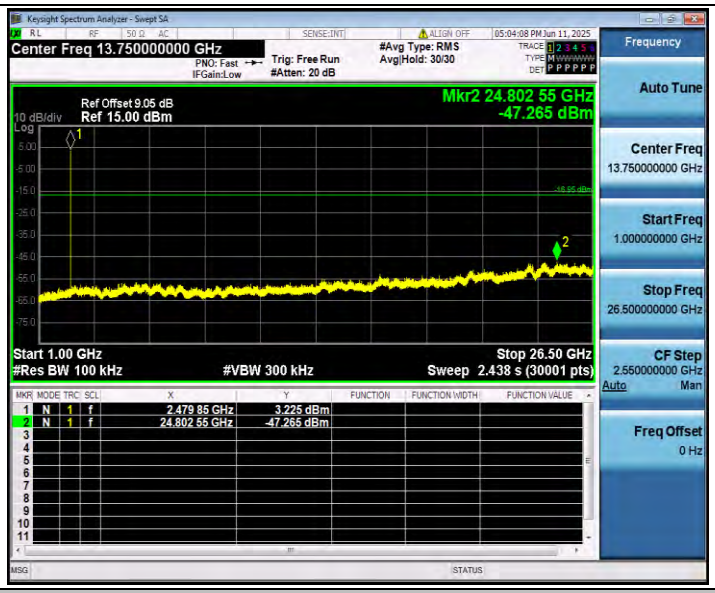


2DH1_Ant1_2441_1000~26500



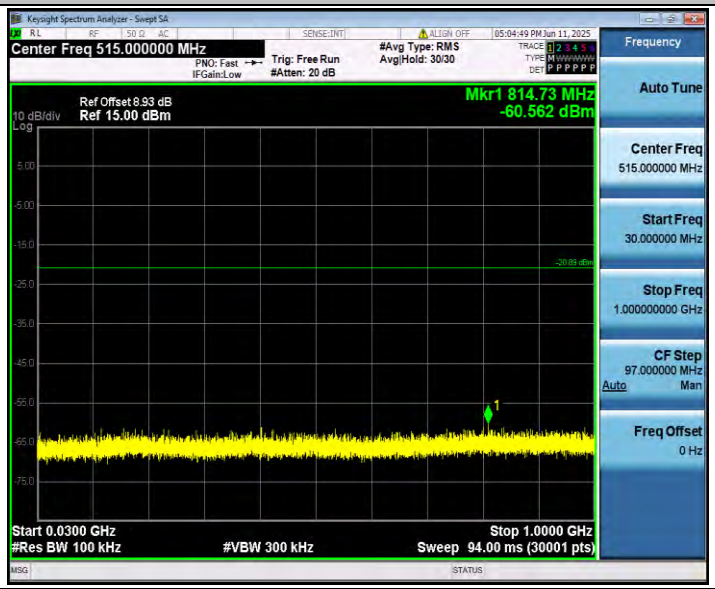
2DH1_Ant1_2480_0~Reference

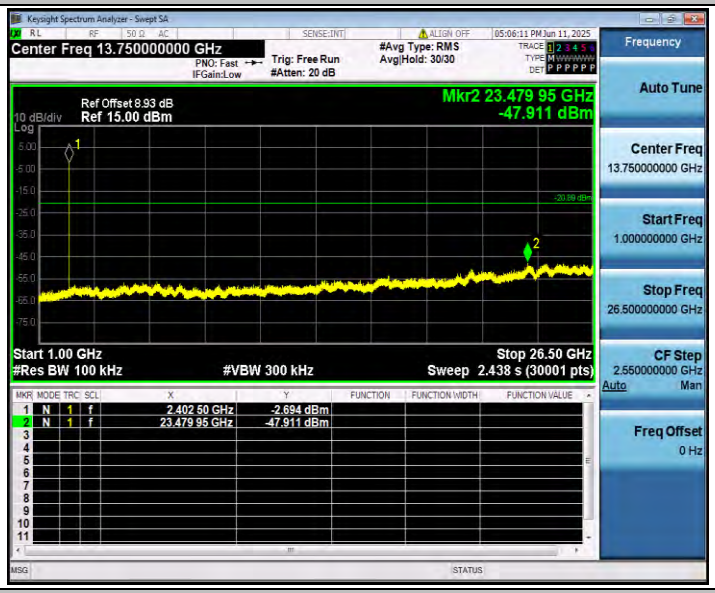
2DH1_Ant1_2480_30~1000

2DH1_Ant1_2480_1000~26500



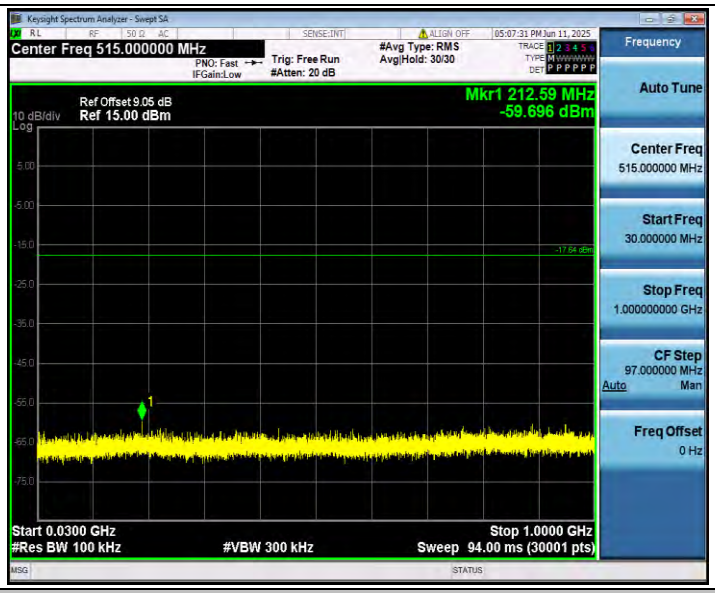
3DH1_Ant1_2402_0~Reference

3DH1_Ant1_2402_30~1000

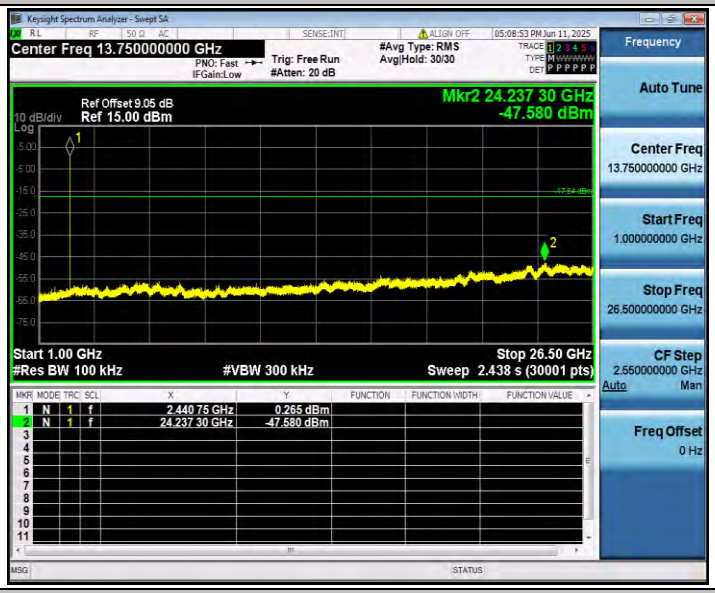


3DH1_Ant1_2402_1000~26500

3DH1_Ant1_2441_0~Reference

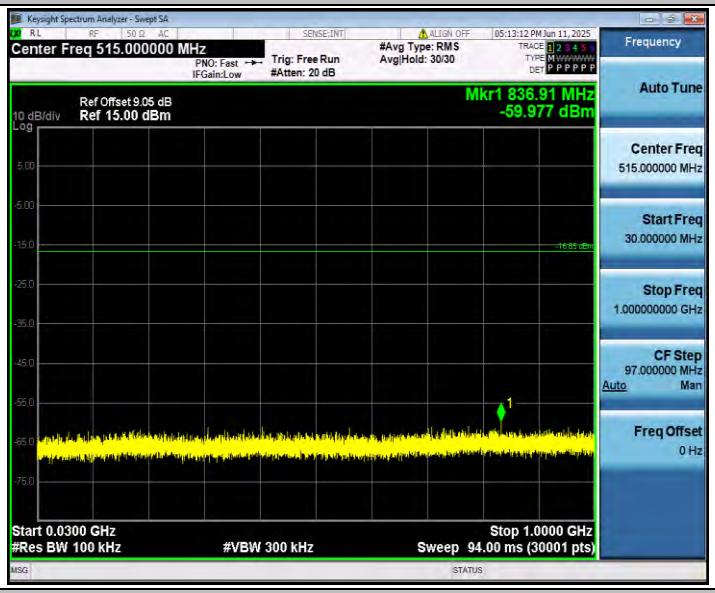
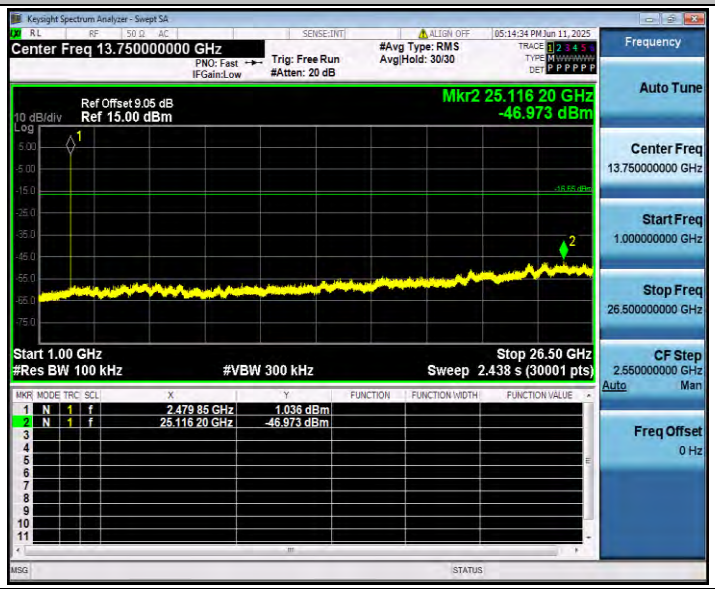
3DH1_Ant1_2441_30~1000



3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference

3DH1_Ant1_2480_30~1000

3DH1_Ant1_2480_1000~26500


Appendix A.9: Emissions in Restricted Bands

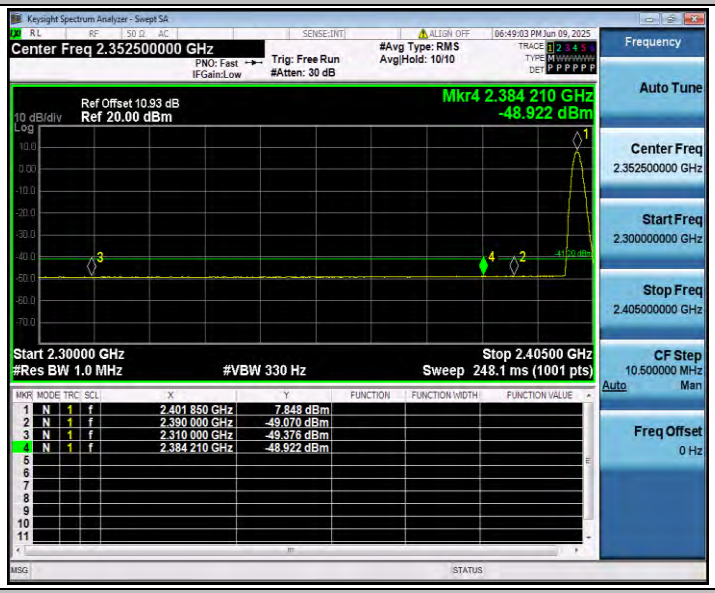
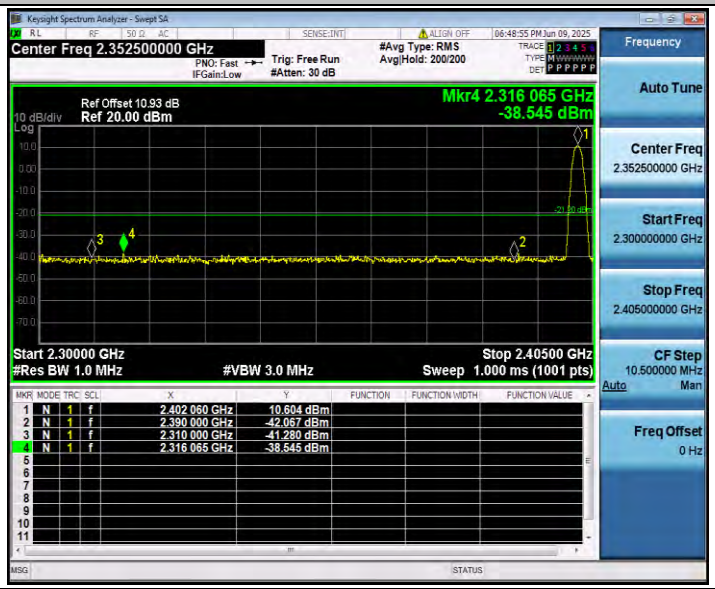
Test Result

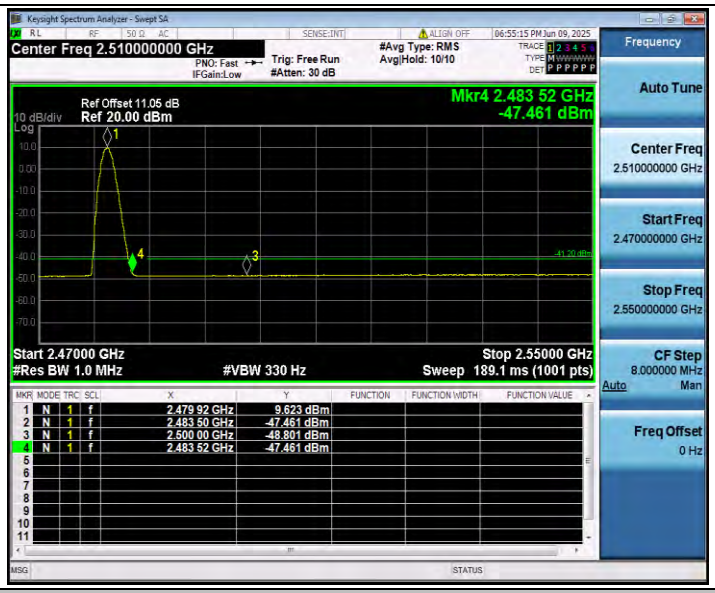
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.38	≤-41.20	45.82	≤54	PASS
				AV	2384.210	-48.92	≤-41.20	46.28	≤54	PASS
				AV	2390.000	-49.07	≤-41.20	46.13	≤54	PASS
				Peak	2310.000	-41.28	≤-21.20	53.92	≤74	PASS
				Peak	2316.065	-38.55	≤-21.20	56.65	≤74	PASS
				Peak	2390.000	-42.07	≤-21.20	53.13	≤74	PASS
		High	2480	AV	2483.500	-47.46	≤-41.20	47.74	≤54	PASS
				AV	2483.520	-47.46	≤-41.20	47.74	≤54	PASS
				AV	2500.000	-48.8	≤-41.20	46.40	≤54	PASS
				Peak	2483.500	-40.18	≤-21.20	55.02	≤74	PASS
				Peak	2490.080	-38.4	≤-21.20	56.80	≤74	PASS
				Peak	2500.000	-40.53	≤-21.20	54.67	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.31	≤-41.20	45.89	≤54	PASS
				AV	2389.880	-48.86	≤-41.20	46.34	≤54	PASS
				AV	2390.000	-48.95	≤-41.20	46.25	≤54	PASS
				Peak	2310.000	-40.68	≤-21.20	54.52	≤74	PASS
				Peak	2344.415	-38.28	≤-21.20	56.92	≤74	PASS
				Peak	2390.000	-41.29	≤-21.20	53.91	≤74	PASS
		High	2480	AV	2483.500	-47.12	≤-41.20	48.08	≤54	PASS
				AV	2483.520	-47.12	≤-41.20	48.08	≤54	PASS
				AV	2500.000	-48.68	≤-41.20	46.52	≤54	PASS
				Peak	2483.500	-40.46	≤-21.20	54.74	≤74	PASS
				Peak	2486.240	-38.01	≤-21.20	57.19	≤74	PASS
				Peak	2500.000	-41.31	≤-21.20	53.89	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.43	≤-41.20	45.77	≤54	PASS
				AV	2387.255	-48.9	≤-41.20	46.30	≤54	PASS
				AV	2390.000	-48.99	≤-41.20	46.21	≤54	PASS
				Peak	2310.000	-41.15	≤-21.20	54.05	≤74	PASS
				Peak	2352.395	-38.57	≤-21.20	56.63	≤74	PASS
				Peak	2390.000	-41.49	≤-21.20	53.71	≤74	PASS
		High	2480	AV	2483.500	-47.2	≤-41.20	48.00	≤54	PASS
				AV	2483.520	-47.2	≤-41.20	48.00	≤54	PASS
				AV	2500.000	-48.77	≤-41.20	46.43	≤54	PASS
				Peak	2483.500	-40.1	≤-21.20	55.10	≤74	PASS
				Peak	2494.080	-38.88	≤-21.20	56.32	≤74	PASS
				Peak	2500.000	-41.26	≤-21.20	53.94	≤74	PASS

Note：

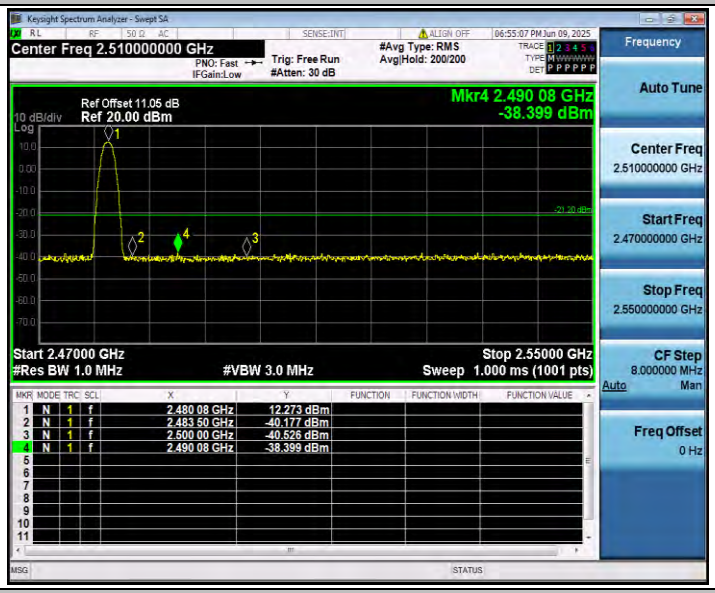
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

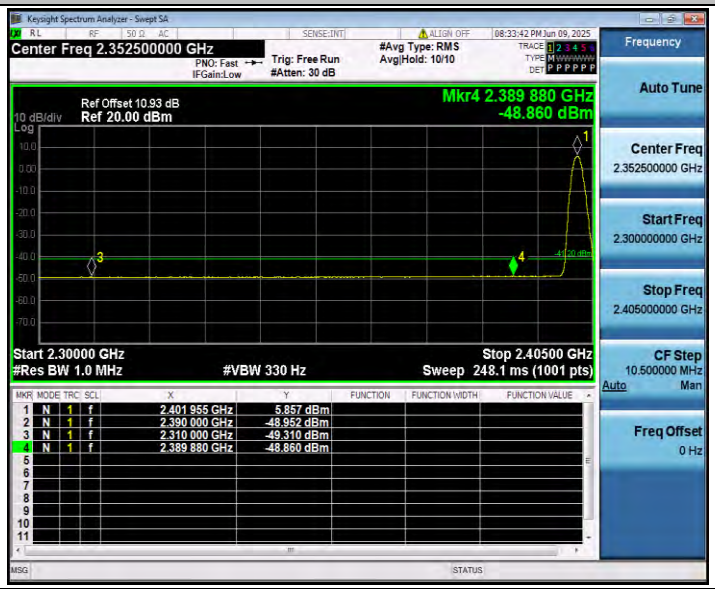
DH1_Ant1_Low_2402_AV

DH1_Ant1_Low_2402_Peak

DH1_Ant1_High_2480_AV

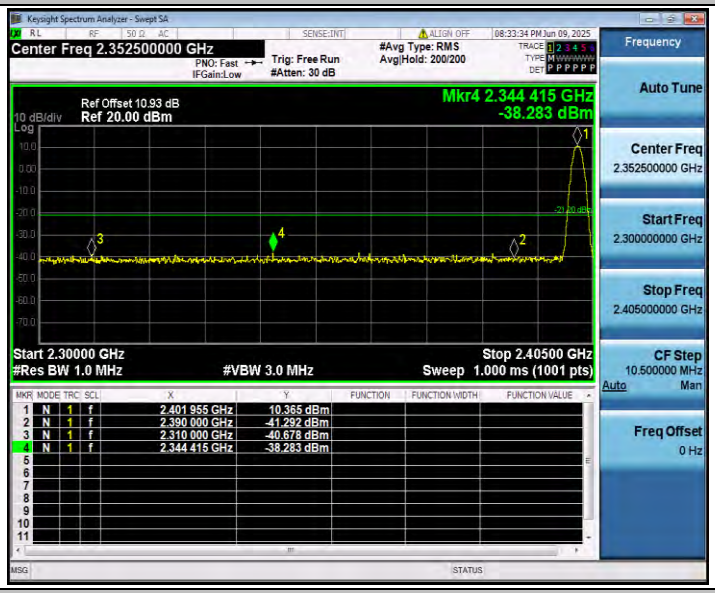
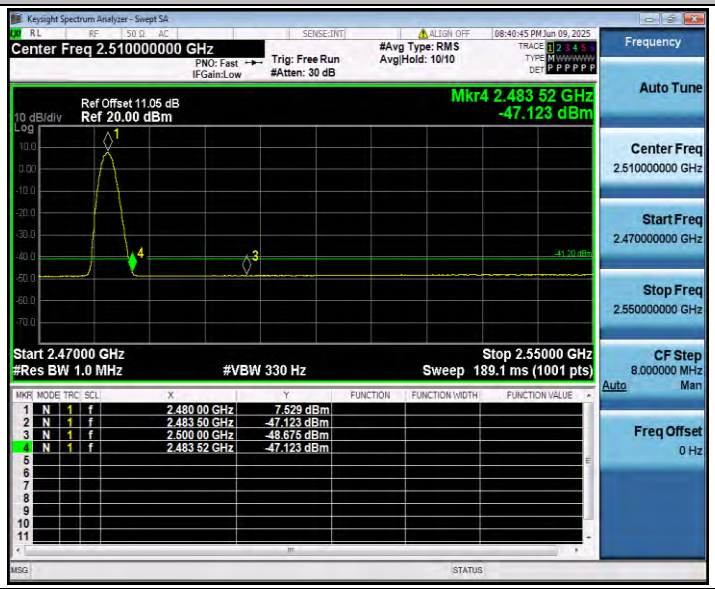


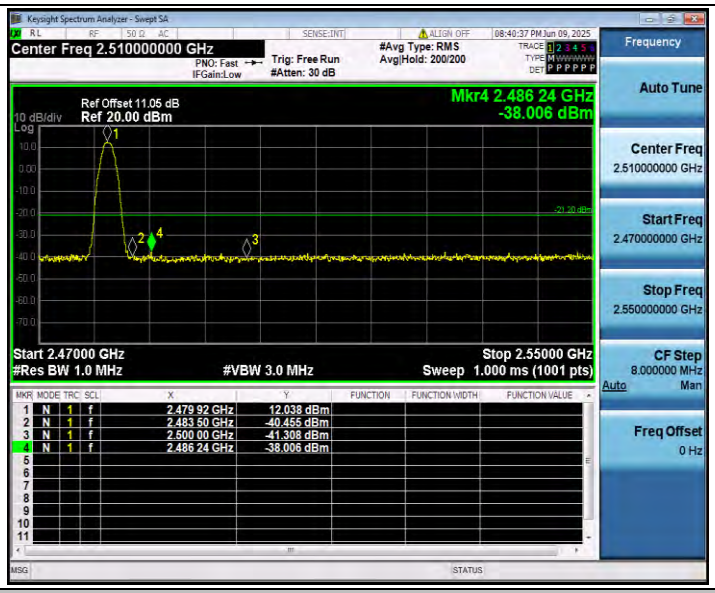
DH1_Ant1_High_2480_Peak



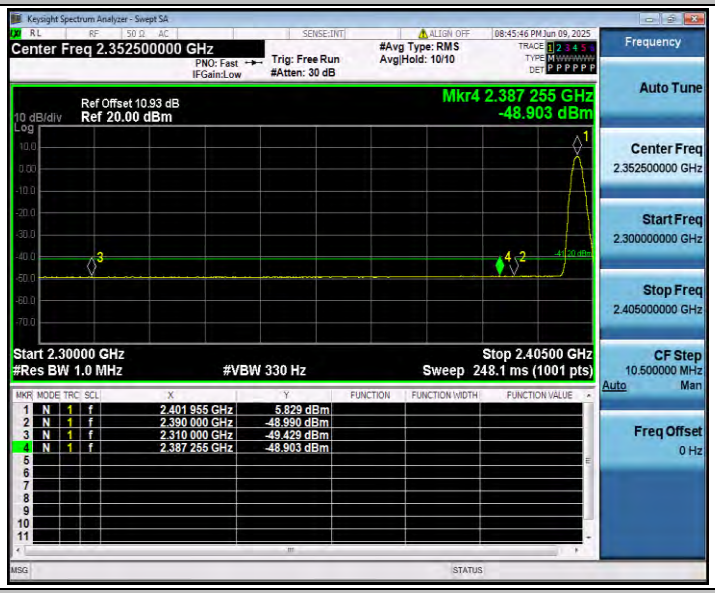
2DH1_Ant1_Low_2402_AV



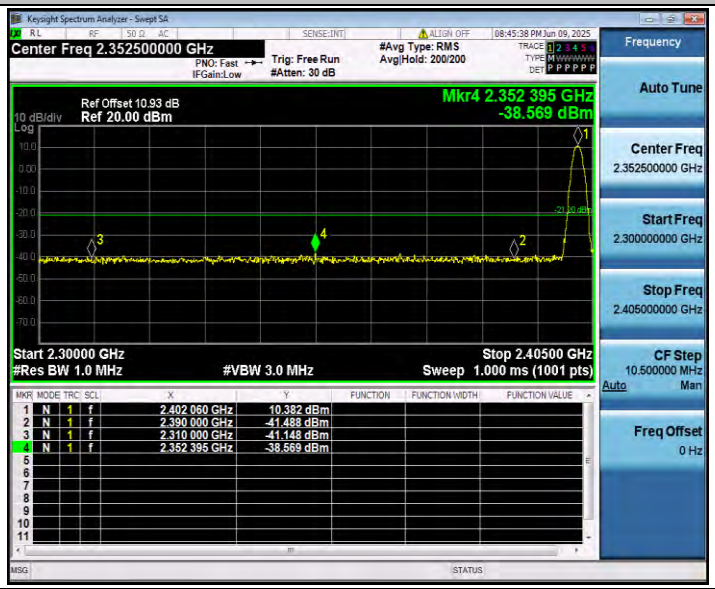
2DH1_Ant1_Low_2402_Peak

2DH1_Ant1_High_2480_AV

2DH1_Ant1_High_2480_Peak

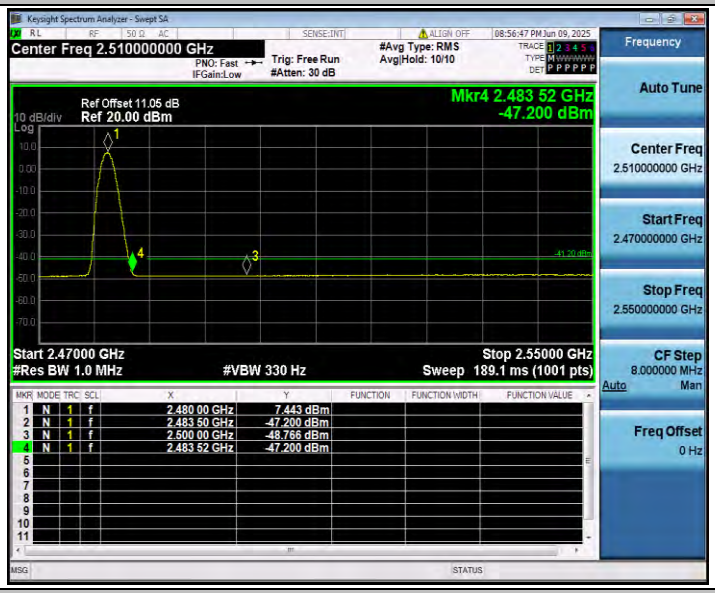


3DH1_Ant1_Low_2402_AV



3DH1_Ant1_Low_2402_Peak



3DH1_Ant1_High_2480_AV

3DH1_Ant1_High_2480_Peak