

GTSL2025020052F02

Appendix

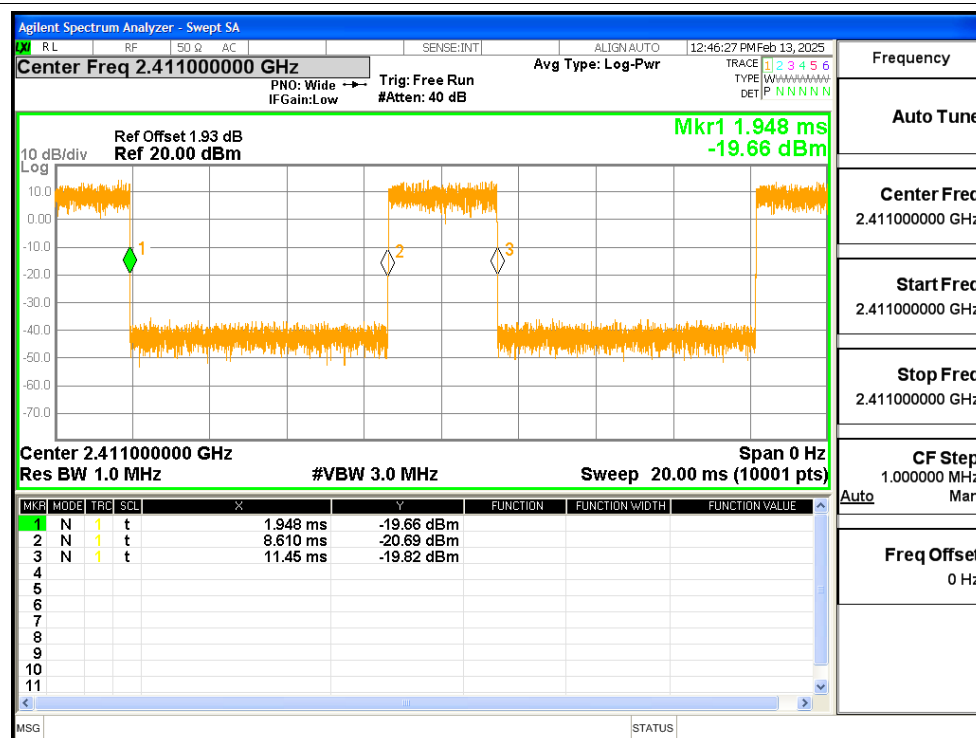
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Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	/	2411	Ant1	29.9	5.24	0.35
		2433		29.92	5.24	0.35
		2466		29.9	5.24	0.35
		2411	Ant2	29.9	5.24	0.35
		2433		29.92	5.24	0.35
		2466		29.9	5.24	0.35

Duty Cycle - 2411MHz Ant1



Agilent Spectrum Analyzer - Swept SA

RL RF SQ Z AC

SENSE:INT

ALIGN:AUTO

12:52:46 PM Feb 13, 2025

Center Freq 2.433000000 GHz

Avg Type: Log-Pwr

Trace 1 2 3 4 5 6

TYPE: W W W W W W W W

DET: P N N N N N

PNO: Wide IF Gain: Low

Trig: Free Run #Atten: 40 dB

Ref Offset 1.95 dB

Ref 20.00 dBm

Mkr1 2.946 ms -19.23 dBm

Center 2.433000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 20.00 ms (10001 pts)

Span 0 Hz

Mkr	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	2.946 ms	-19.23 dBm			
2	N	1	t	9.606 ms	-20.08 dBm			
3	N	1	t	12.45 ms	-17.67 dBm			
4								
5								
6								
7								
8								
9								
10								
11								

Auto

CF Step 1.000000 MHz

Mar

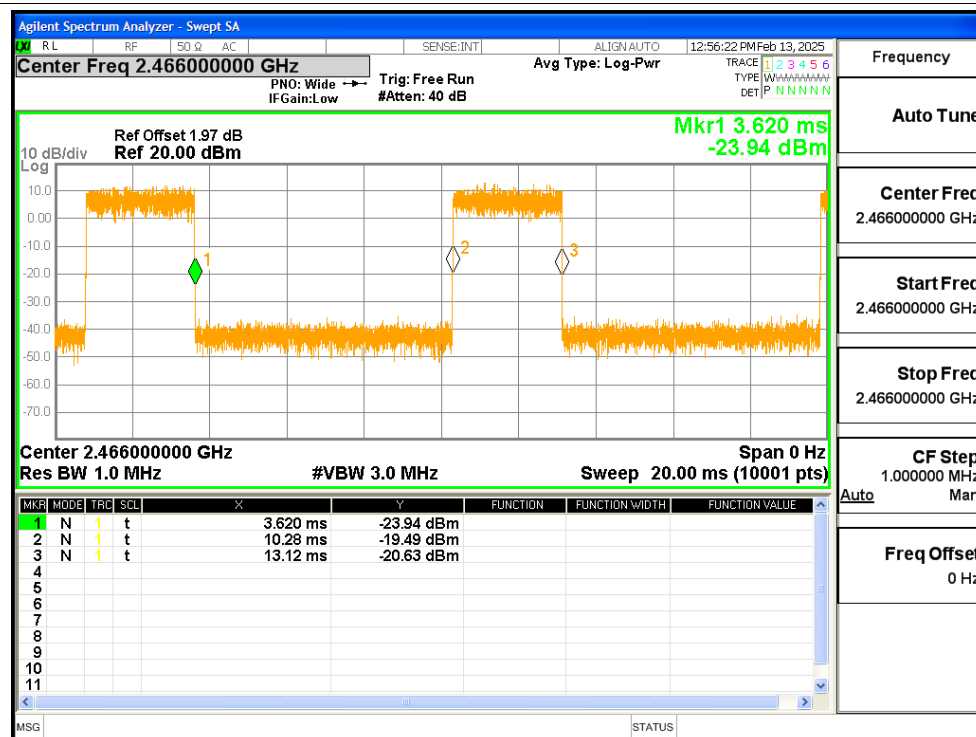
Freq Offset 0 Hz

MSG

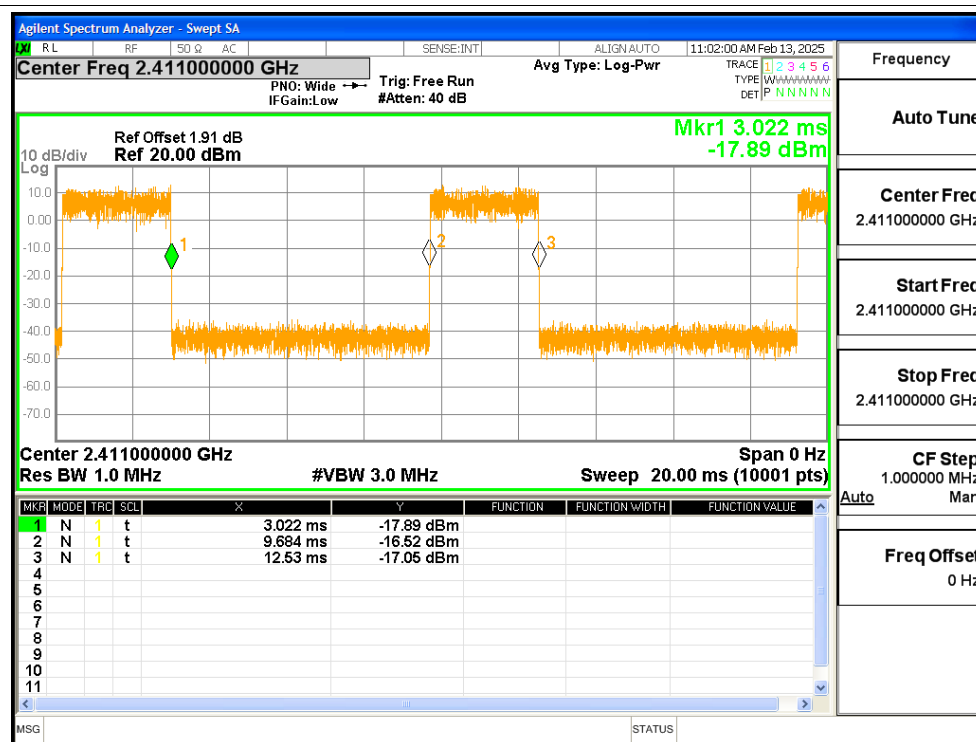
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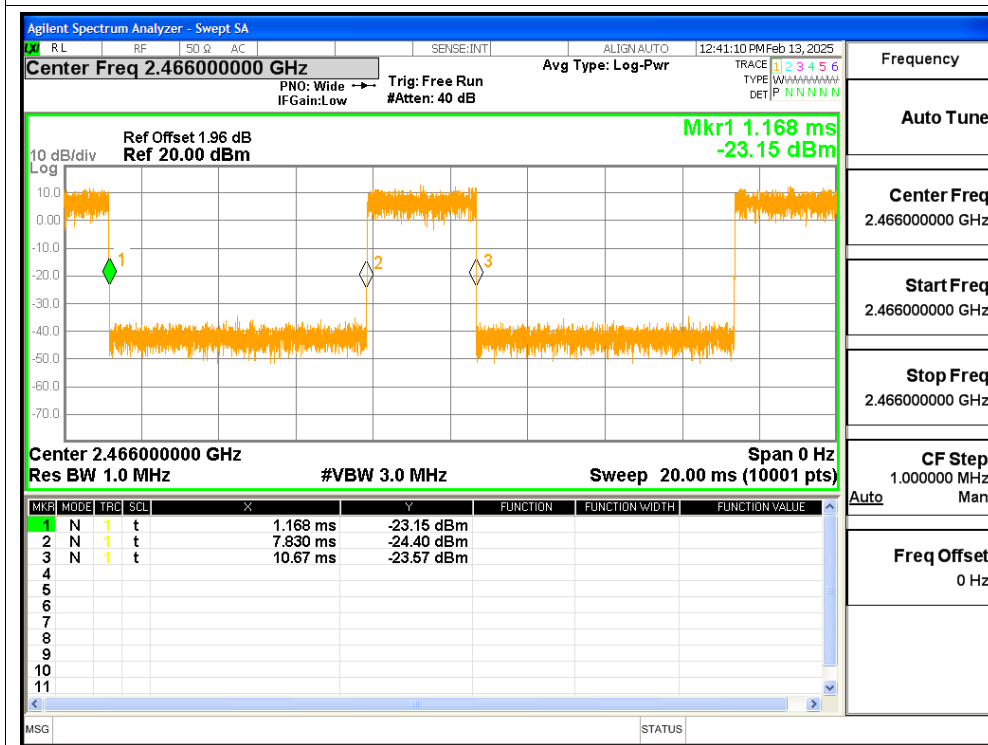
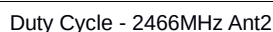
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Duty Cycle - 2466MHz Ant1



Duty Cycle - 2411MHz Ant2





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Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2411	Ant1	17.34	30	Pass
		2433	Ant1	16.05	30	Pass
		2466	Ant1	16.44	30	Pass
		2411	Ant2	14.9	30	Pass
		2433	Ant2	15.43	30	Pass
		2466	Ant2	15.84	30	Pass
		2411	MIMO	19.75	30	Pass
		2433	MIMO	18.75	30	Pass
		2466	MIMO	18.65	30	Pass

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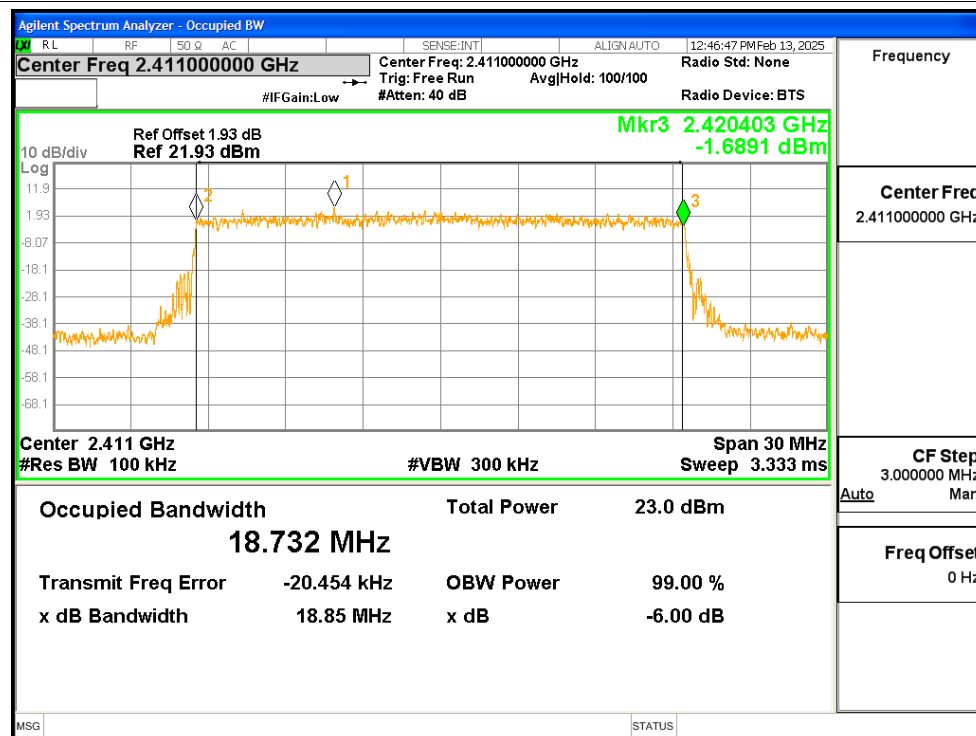
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2411	Ant1	18.847	0.5	Pass
		2433		18.883	0.5	Pass
		2466		18.747	0.5	Pass
		2411	Ant2	18.834	0.5	Pass
		2433		18.858	0.5	Pass
		2466		18.863	0.5	Pass

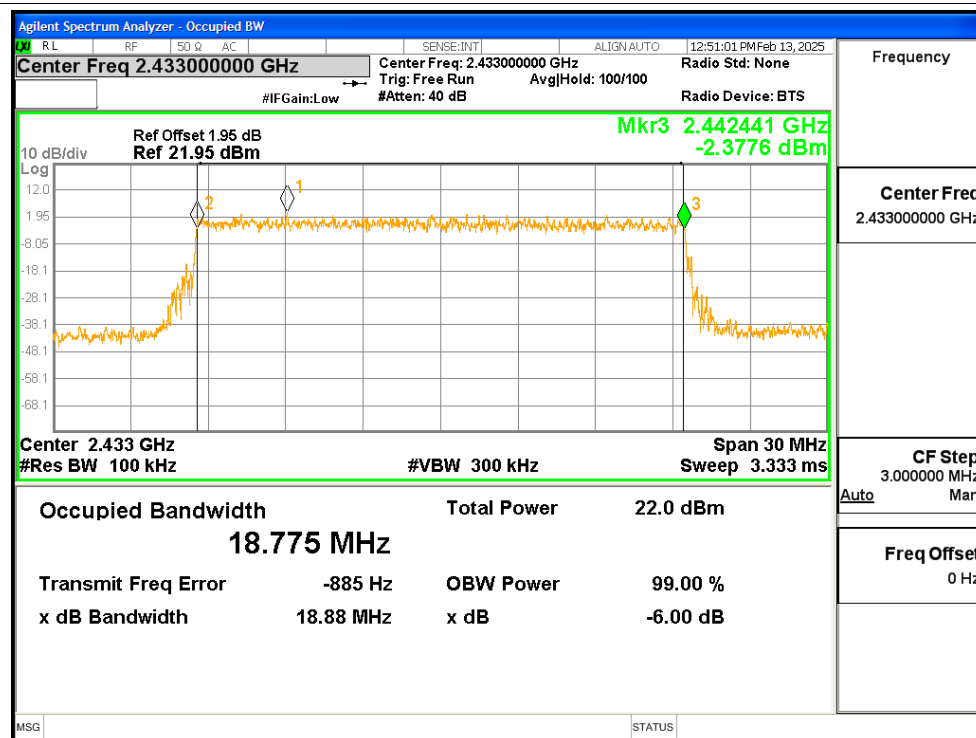
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Test Graphs

-6dB Bandwidth - 2411MHz Ant1

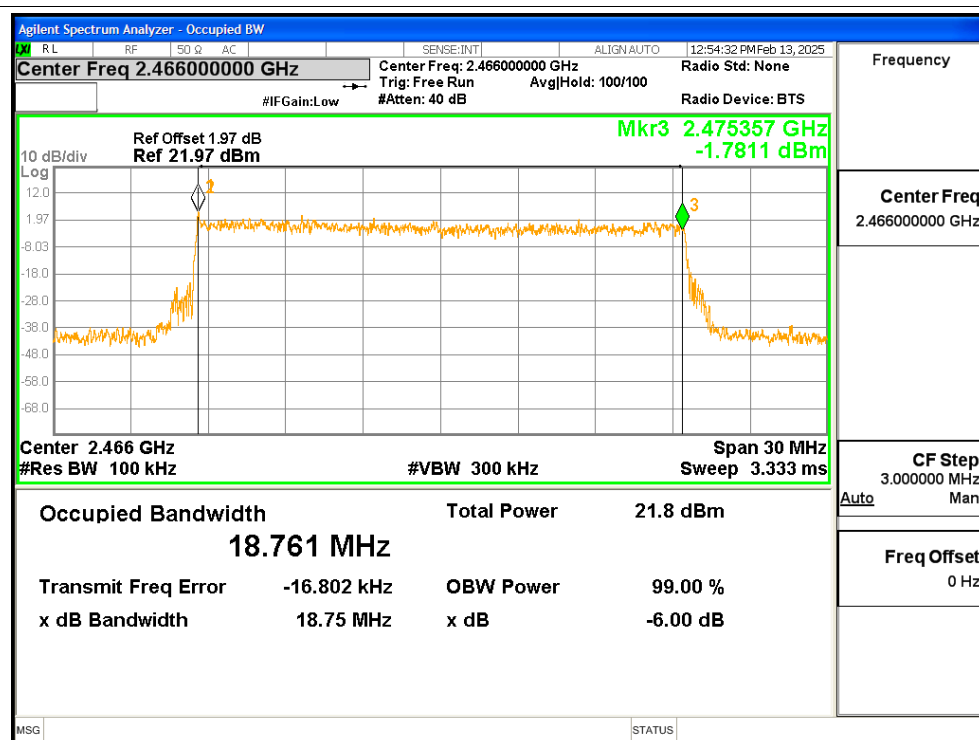


-6dB Bandwidth - 2433MHz Ant1

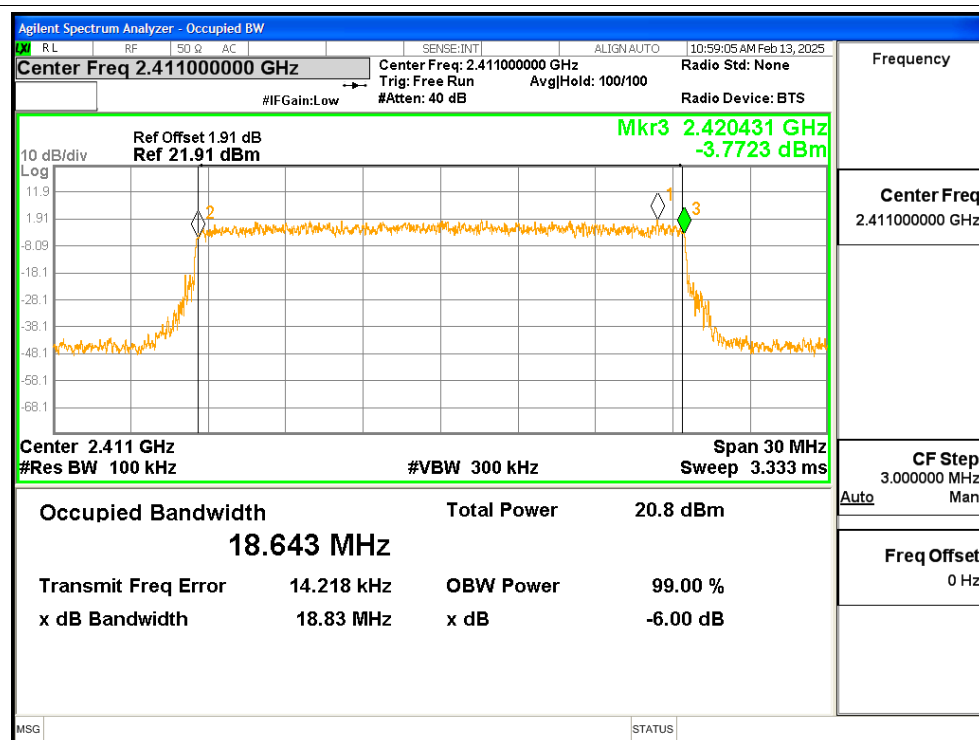


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-6dB Bandwidth - 2466MHz Ant1

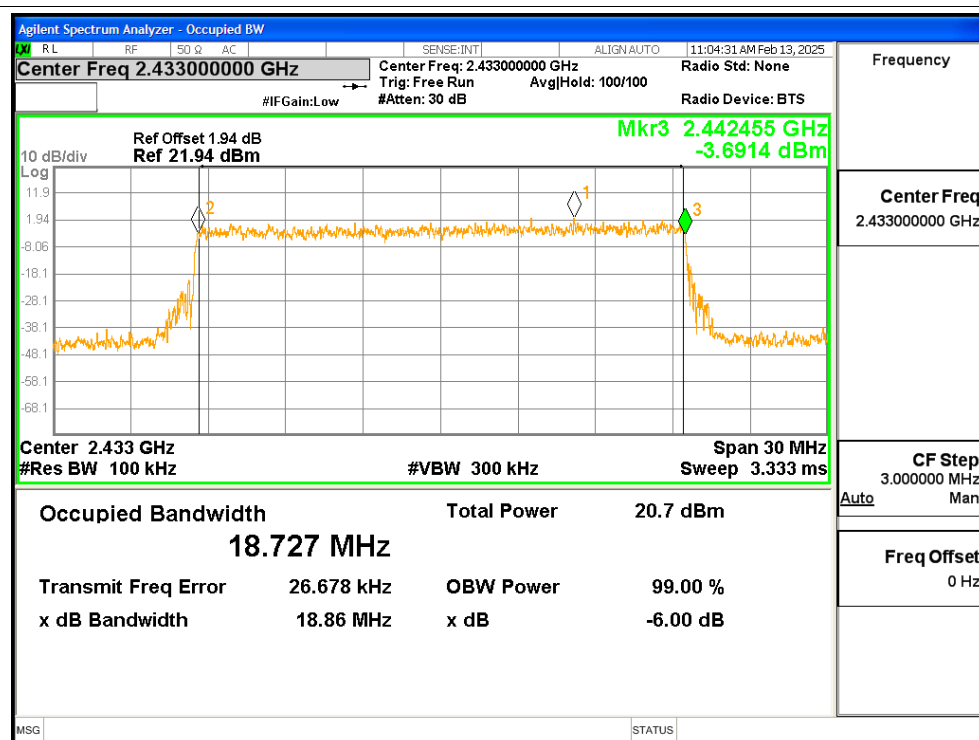


-6dB Bandwidth - 2411MHz Ant2

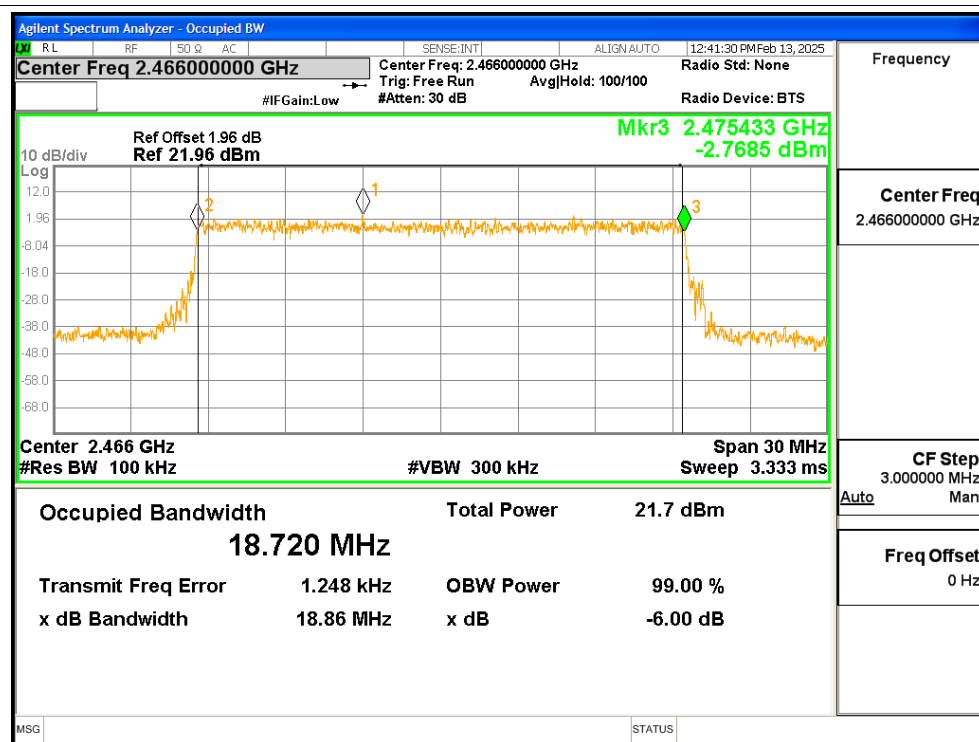


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-6dB Bandwidth - 2433MHz Ant2



-6dB Bandwidth - 2466MHz Ant2



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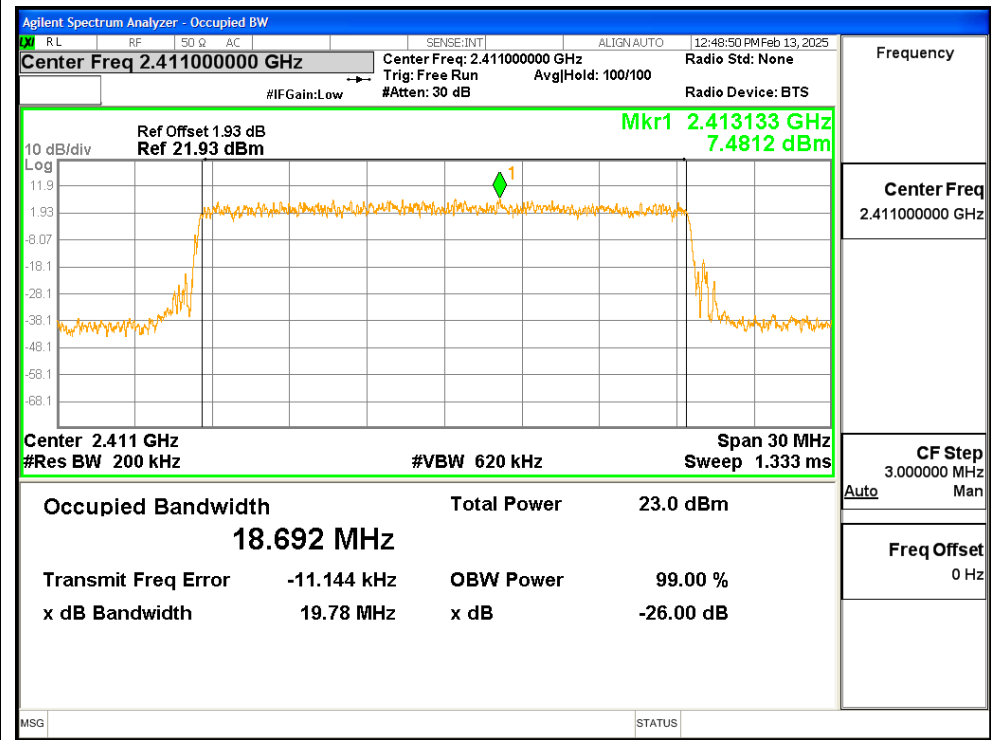
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2411	Ant1	18.692
		2433		18.778
		2466		18.809
		2411	Ant2	18.646
		2433		18.742
		2466		18.739

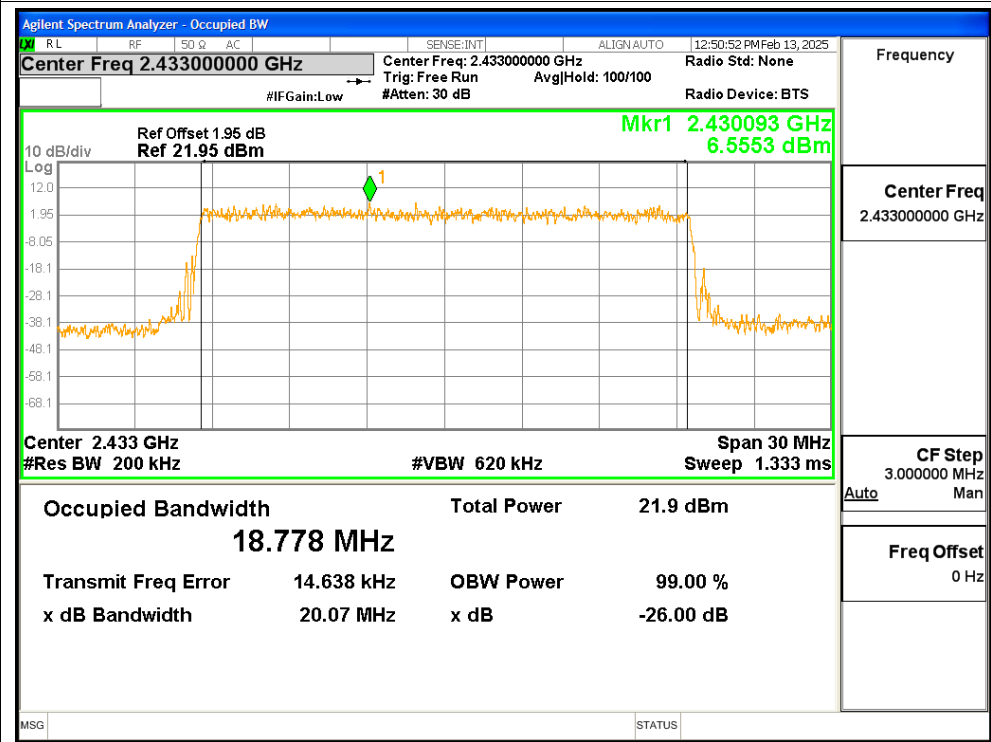
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Test Graphs

OBW - 2411MHz Ant1

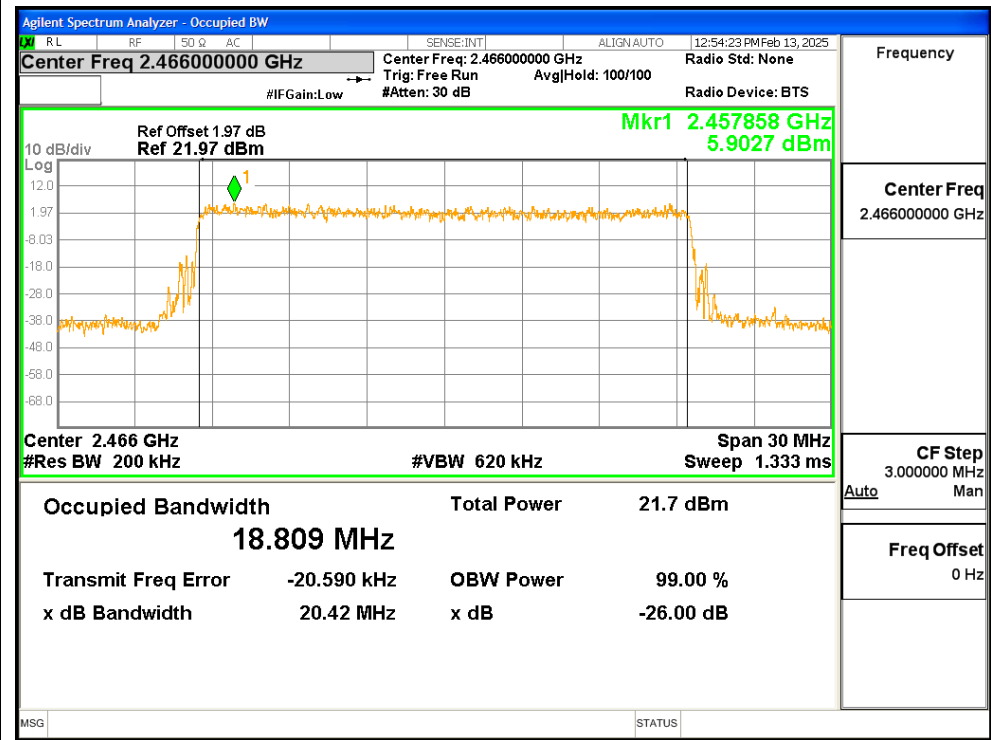


OBW - 2433MHz Ant1

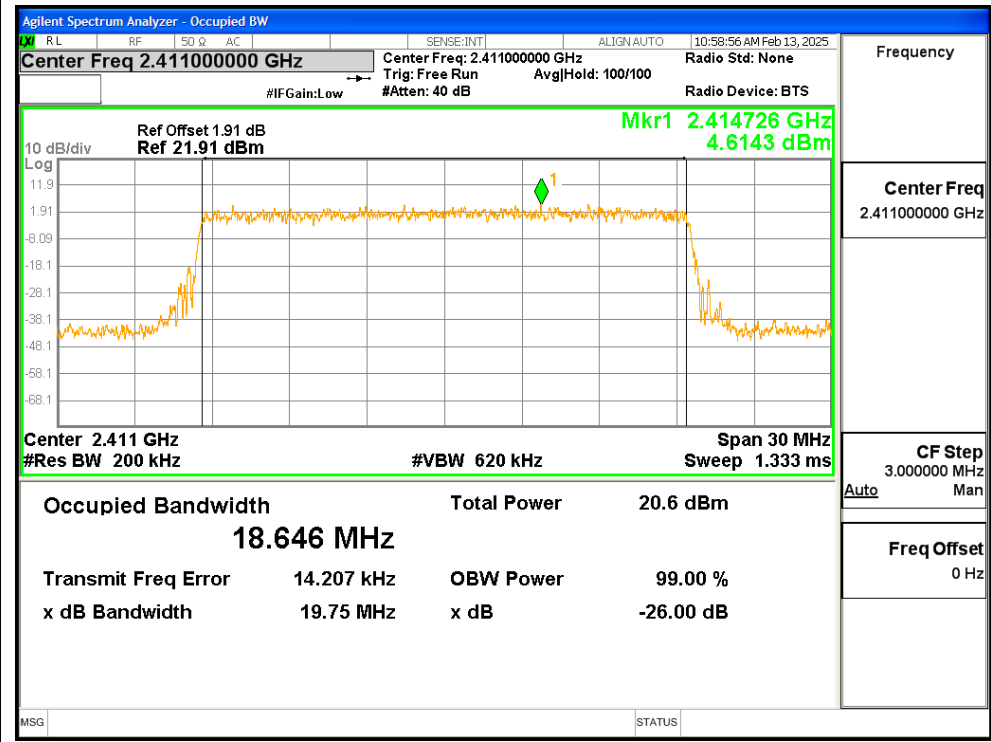


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OBW - 2466MHz Ant1

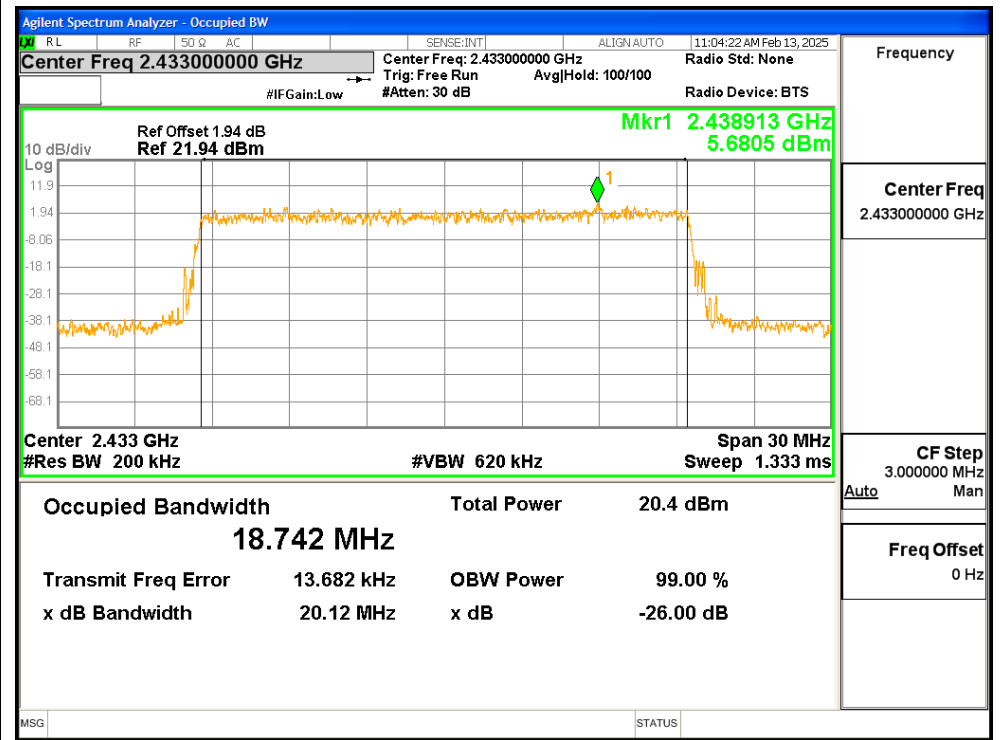


OBW - 2411MHz Ant2

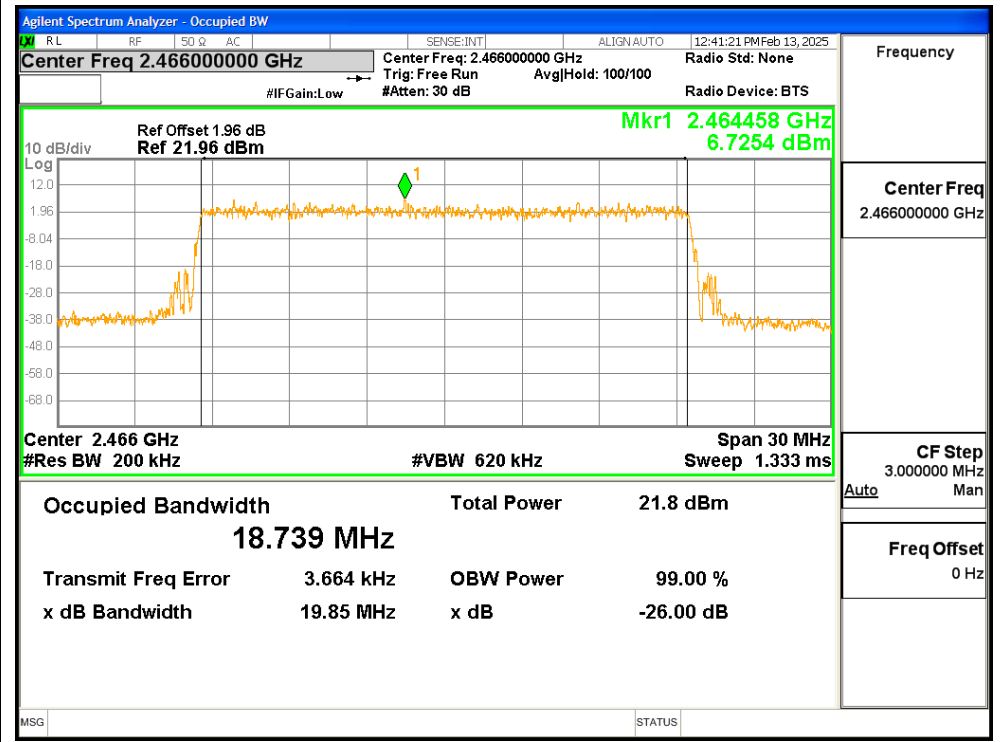


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OBW - 2433MHz Ant2



OBW - 2466MHz Ant2



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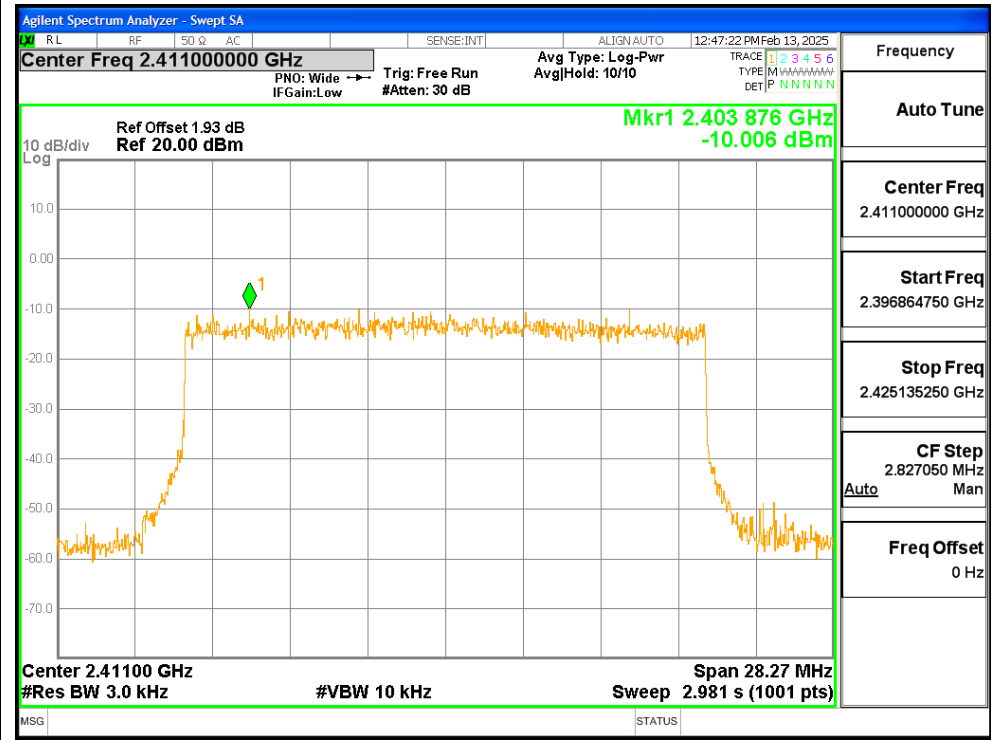
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	/	2411	Ant1	-10.01	8	Pass
		2433	Ant1	-10.64	8	Pass
		2466	Ant1	-10.42	8	Pass
		2411	Ant2	-13.22	8	Pass
		2433	Ant2	-13.21	8	Pass
		2466	Ant2	-11.98	8	Pass
		2411	MIMO	-8.31	8	Pass
		2433	MIMO	-8.25	8	Pass
		2466	MIMO	-8.21	8	Pass

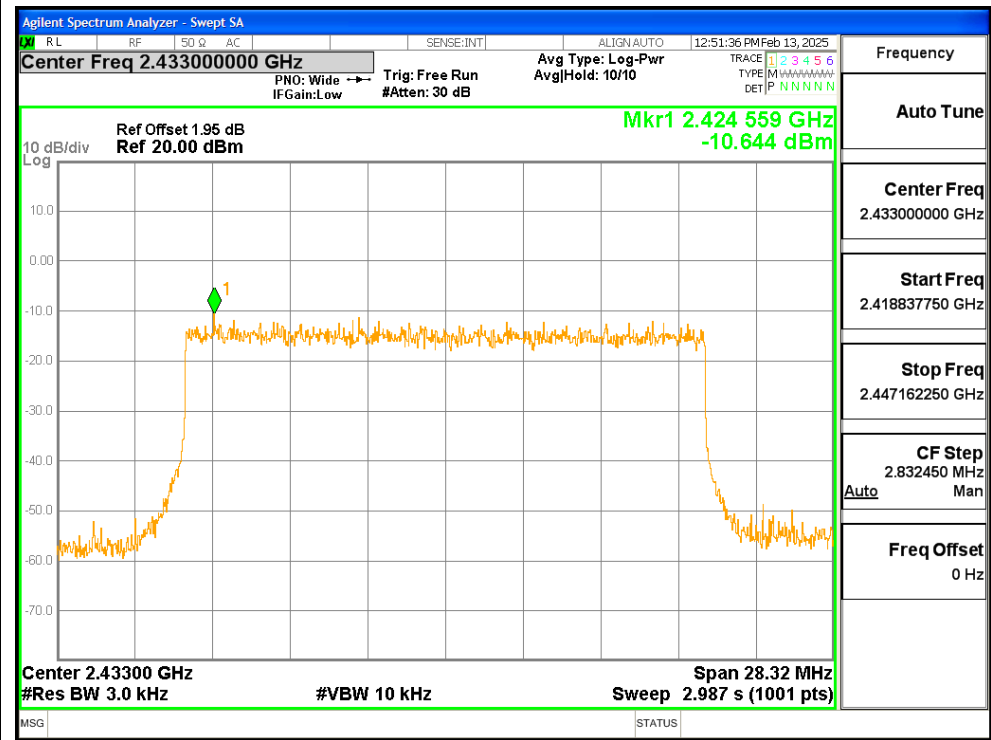
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Test Graphs

PSD - 2411MHz Ant1

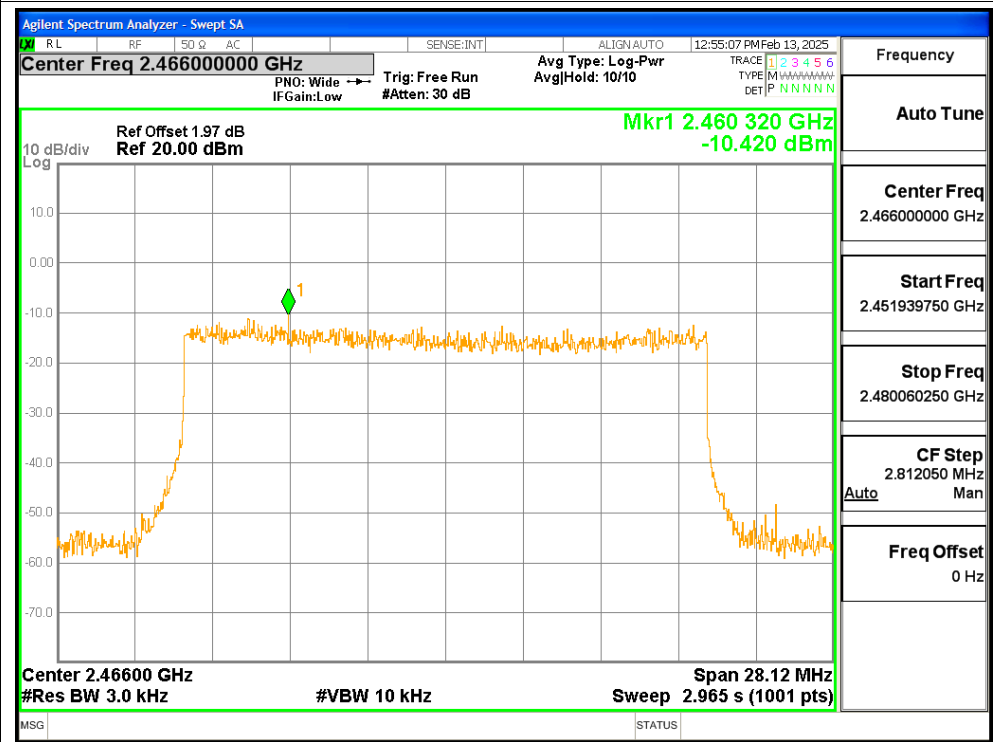


PSD - 2433MHz Ant1

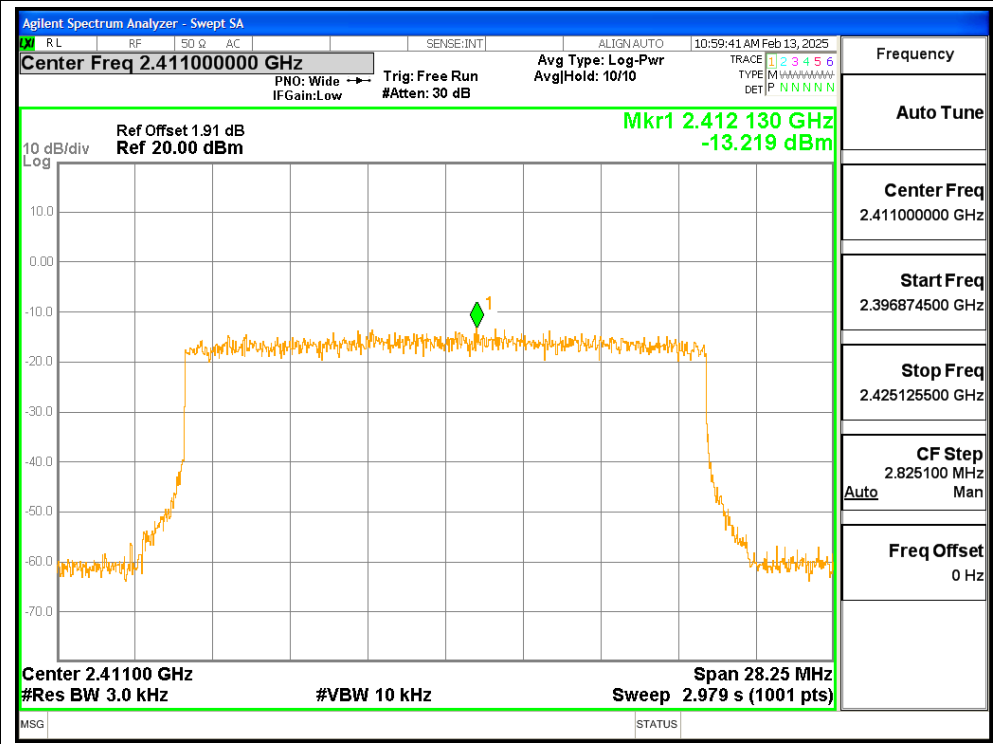


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PSD - 2466MHz Ant1

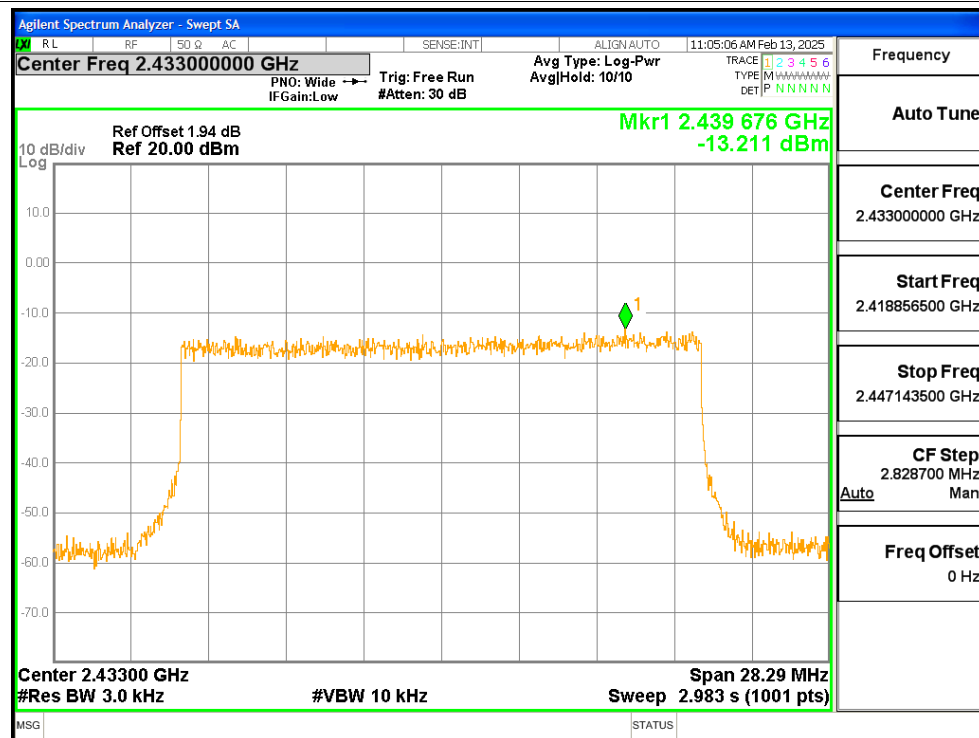


PSD - 2411MHz Ant2

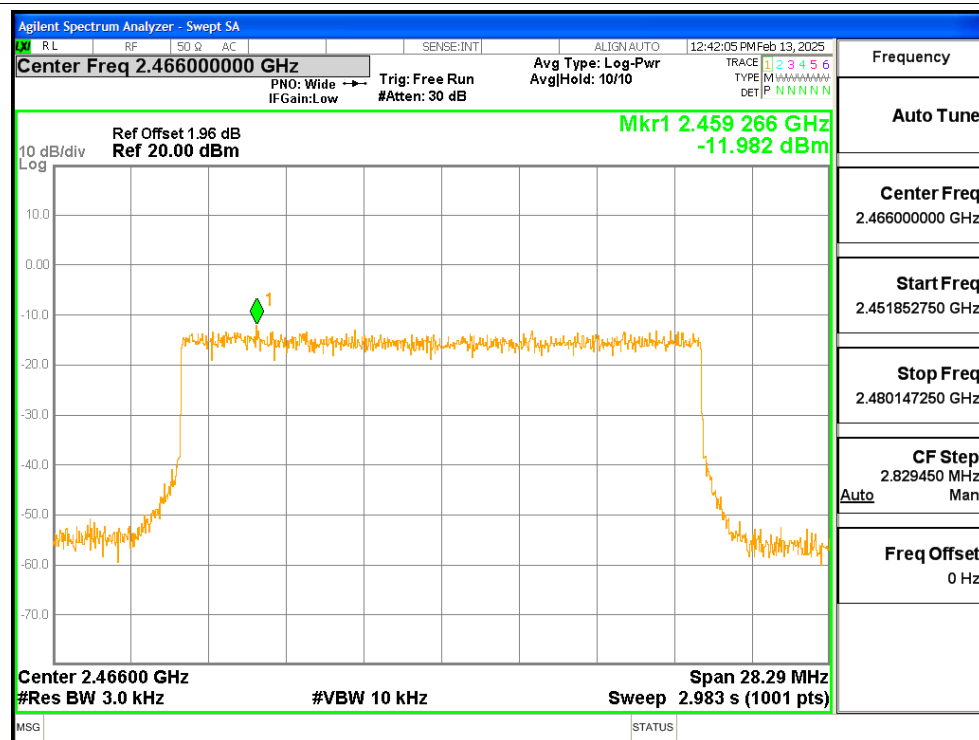


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PSD - 2433MHz Ant2



PSD - 2466MHz Ant2



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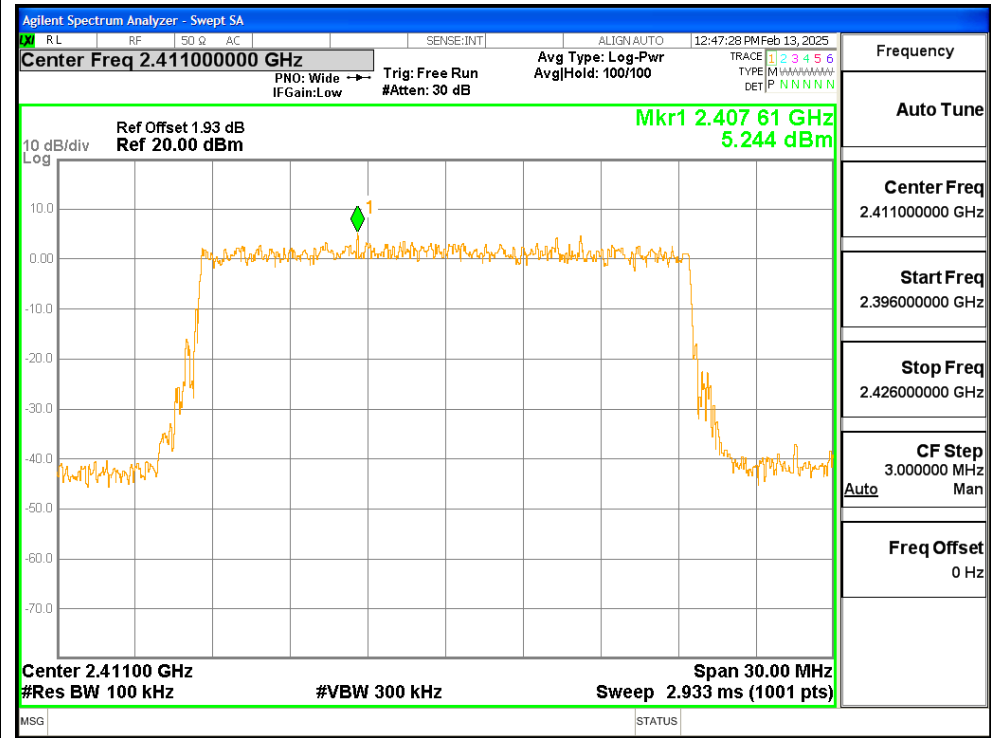
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2411	Ant1	-43.95	-20	Pass
		2466		-44.49	-20	Pass
		2411	Ant2	-42.34	-20	Pass
		2466		-45.84	-20	Pass

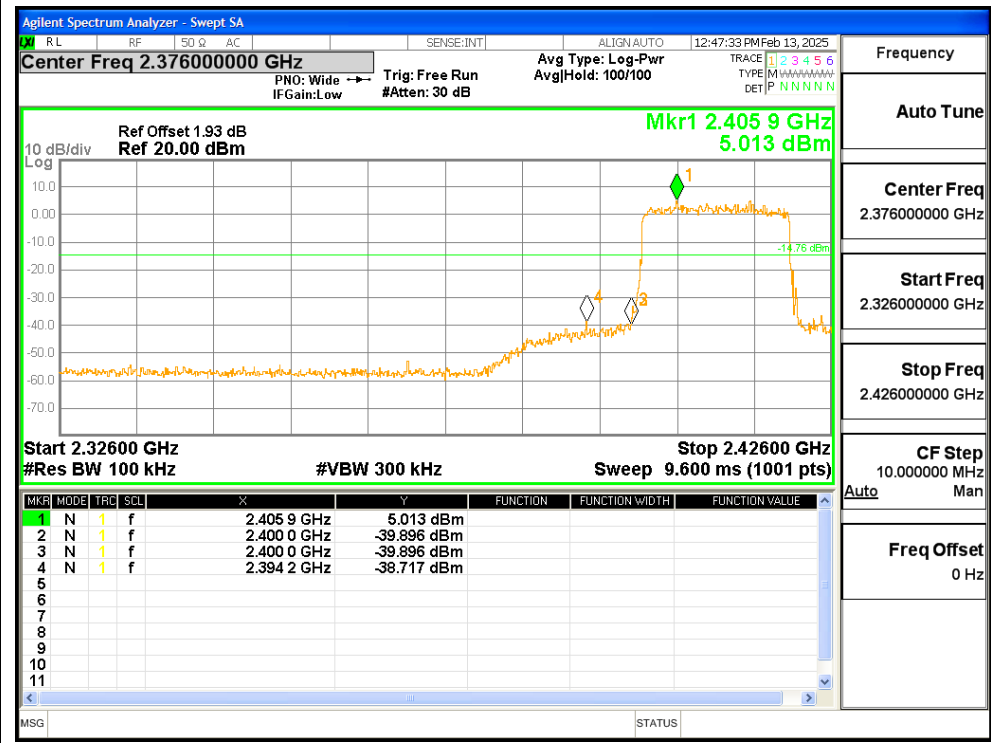
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Test Graphs

Band Edge - 2411MHz Ant1 Ref

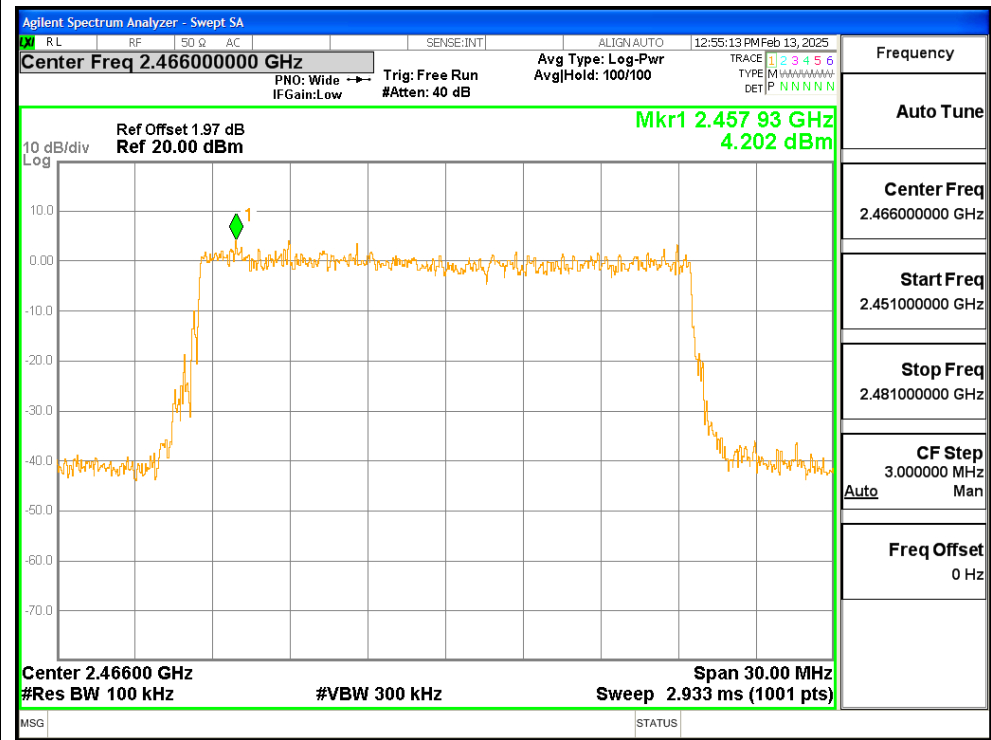


Band Edge - 2411MHz Ant1 Emission

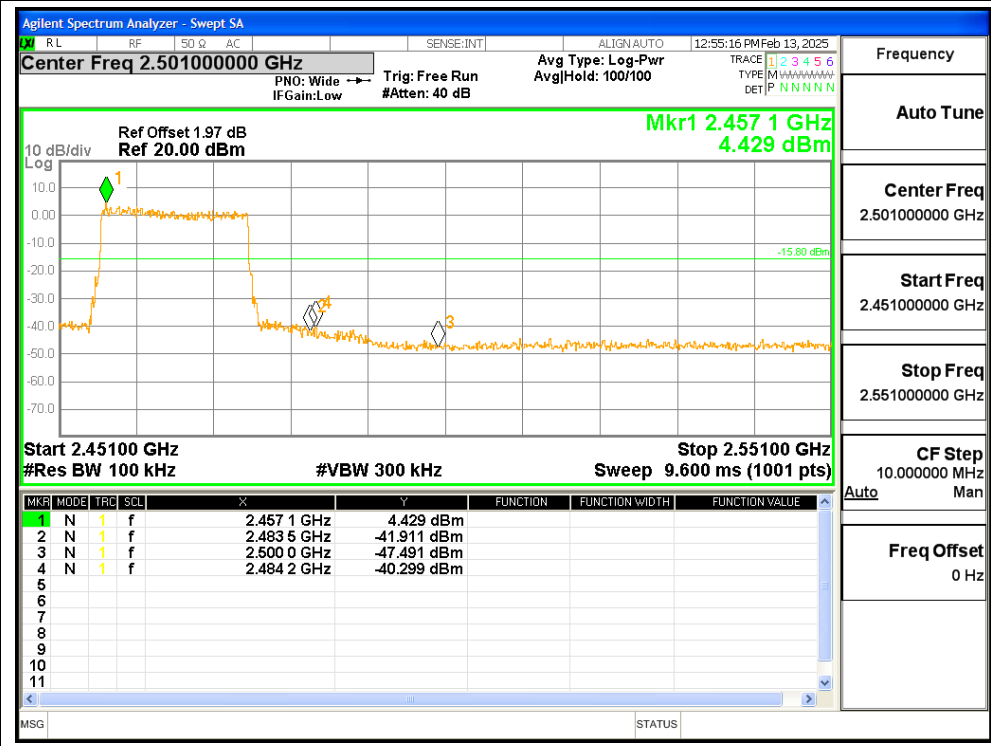


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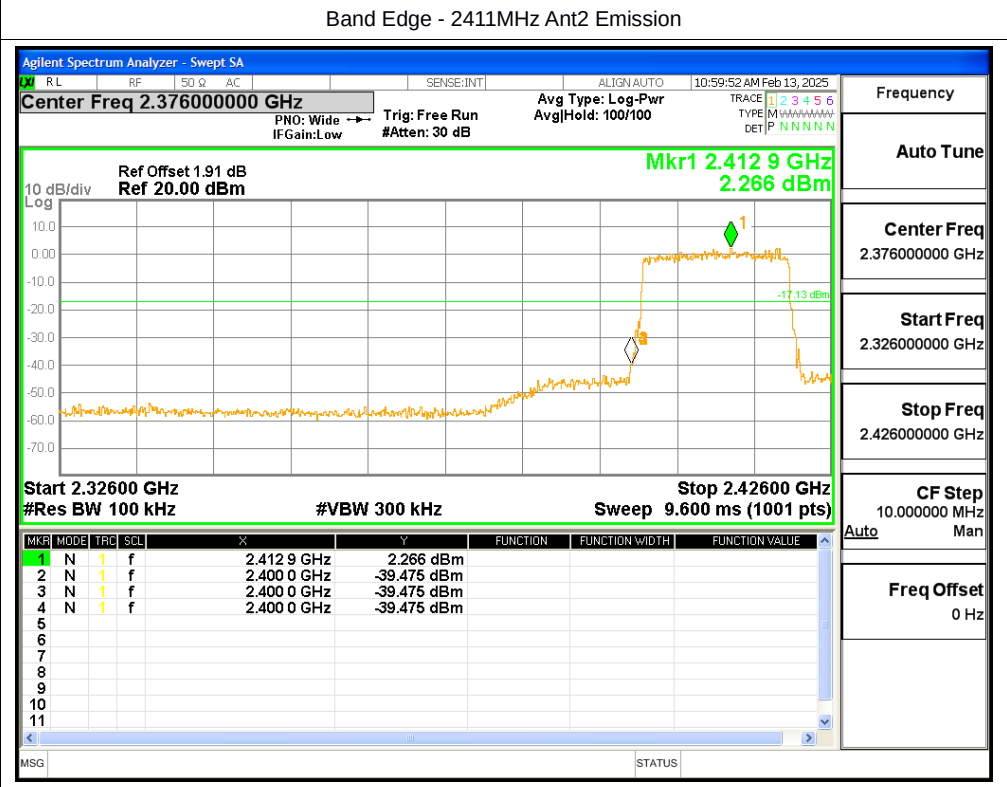
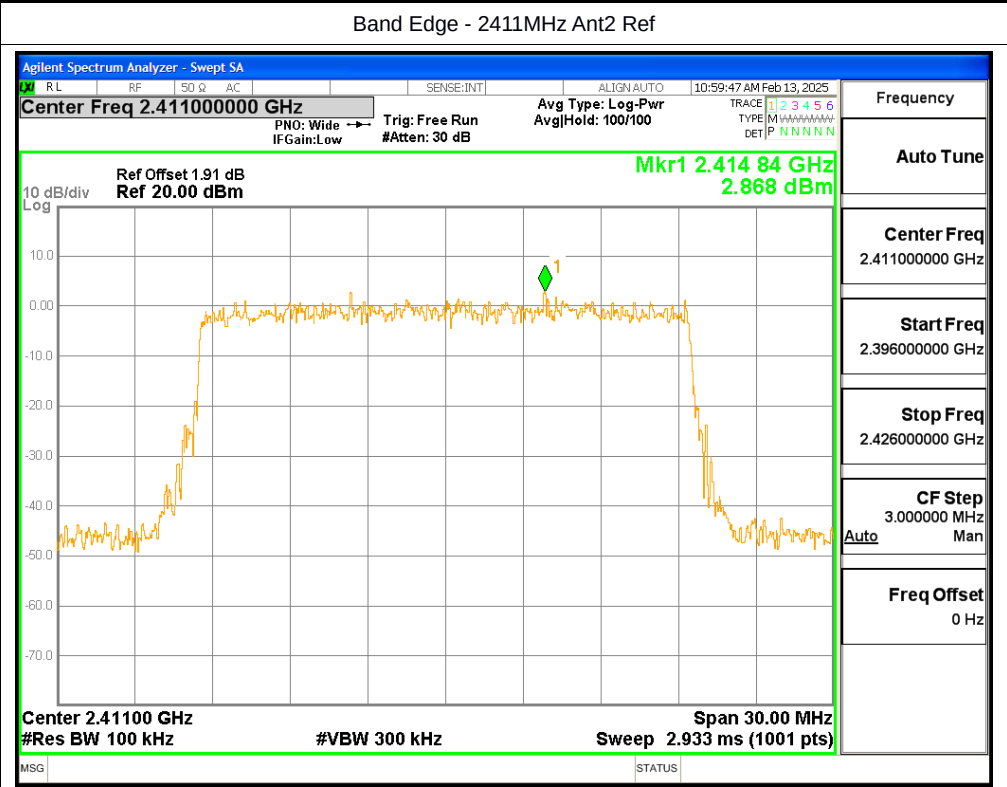
Band Edge - 2466MHz Ant1 Ref



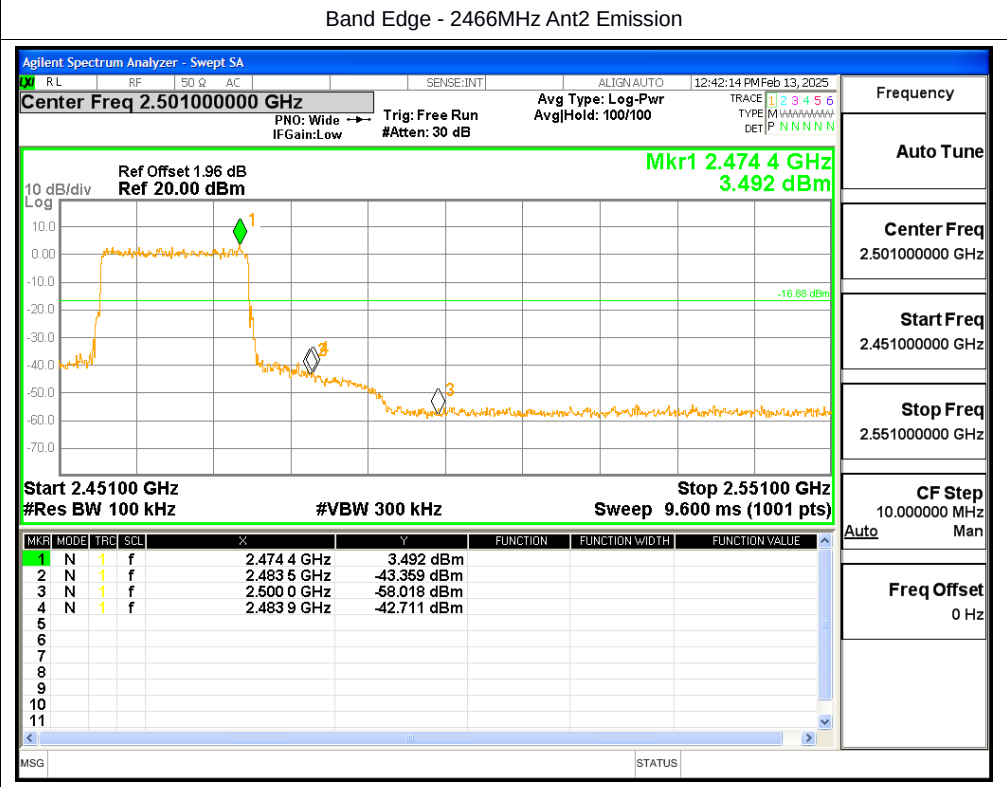
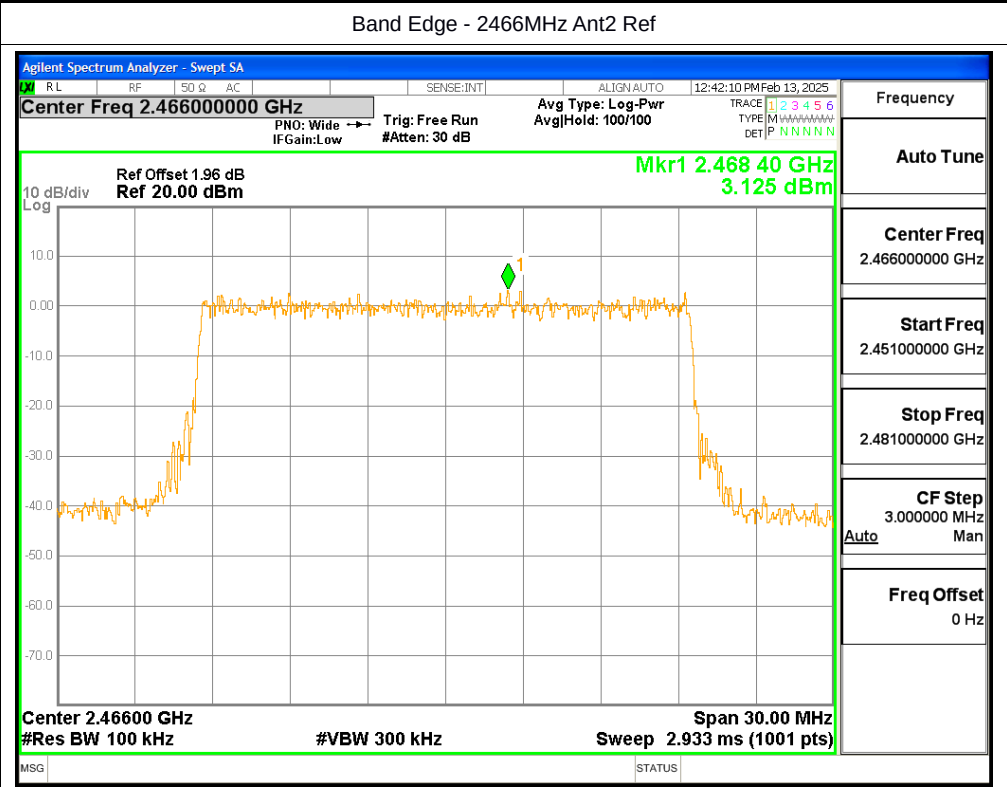
Band Edge - 2466MHz Ant1 Emission



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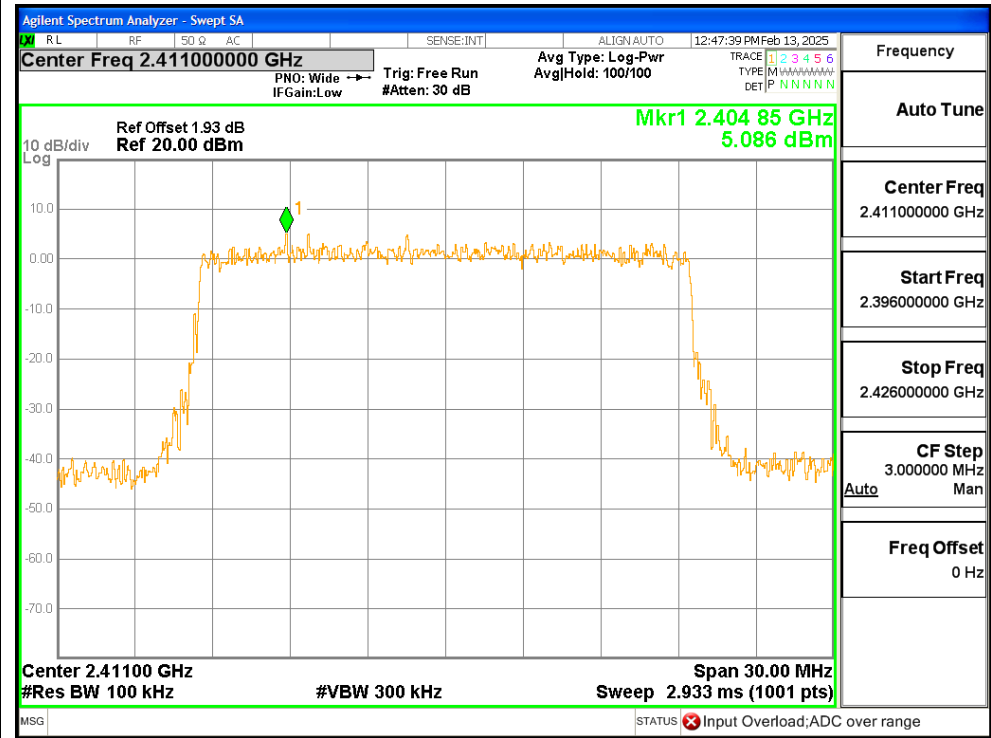
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2411	Ant1	-40.55	-20	Pass
		2433		-39.75	-20	Pass
		2466		-28.99	-20	Pass
		2411	Ant2	-27.44	-20	Pass
		2433		-37.39	-20	Pass
		2466		-29.42	-20	Pass

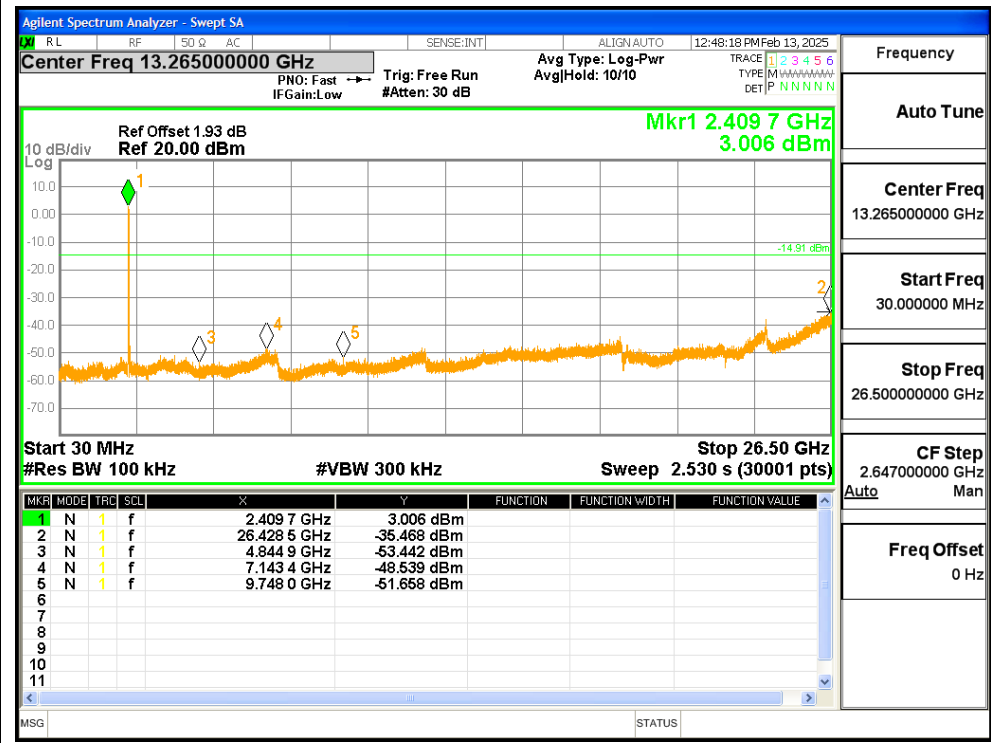
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Test Graphs

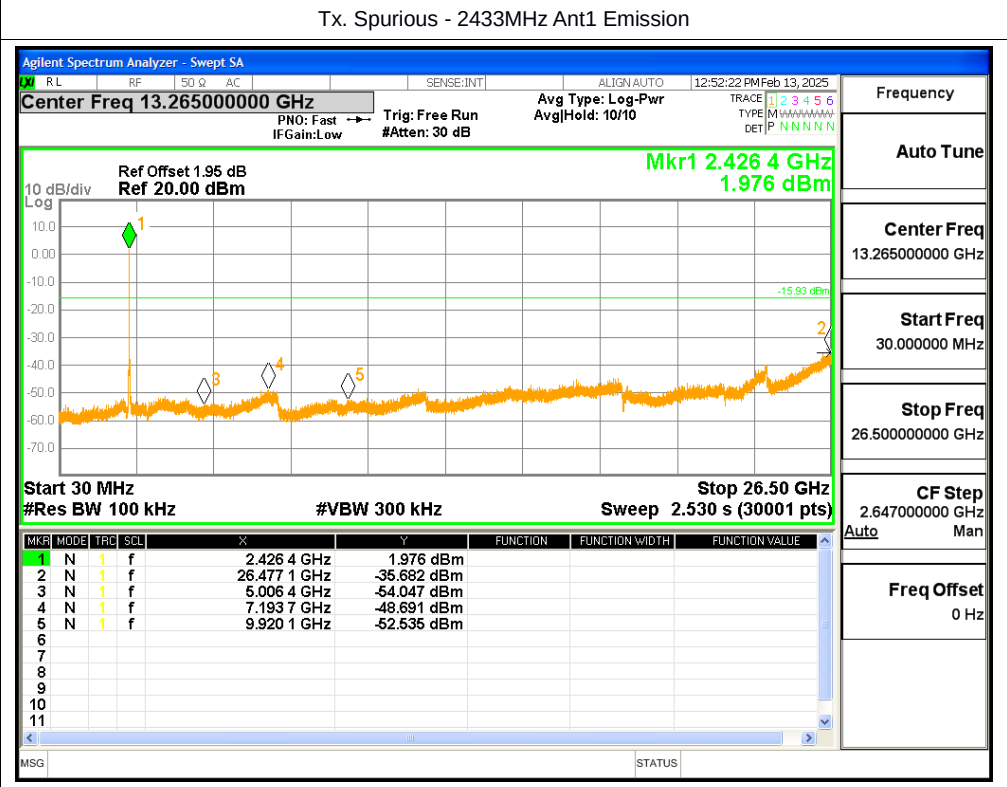
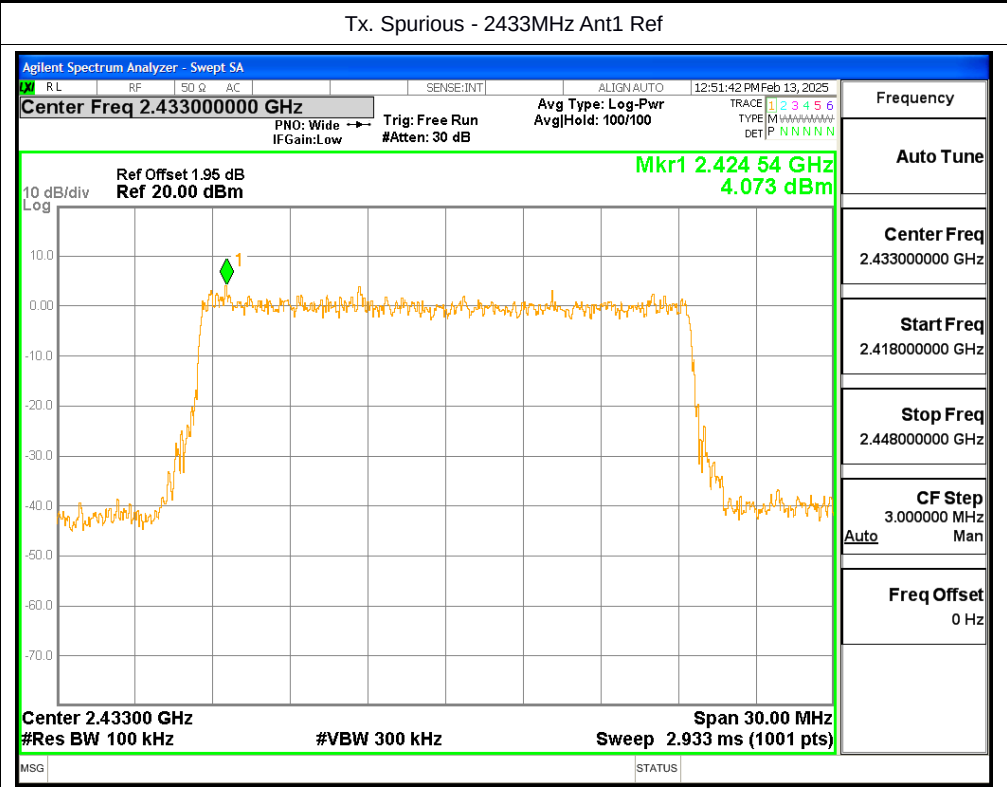
Tx. Spurious - 2411MHz Ant1 Ref



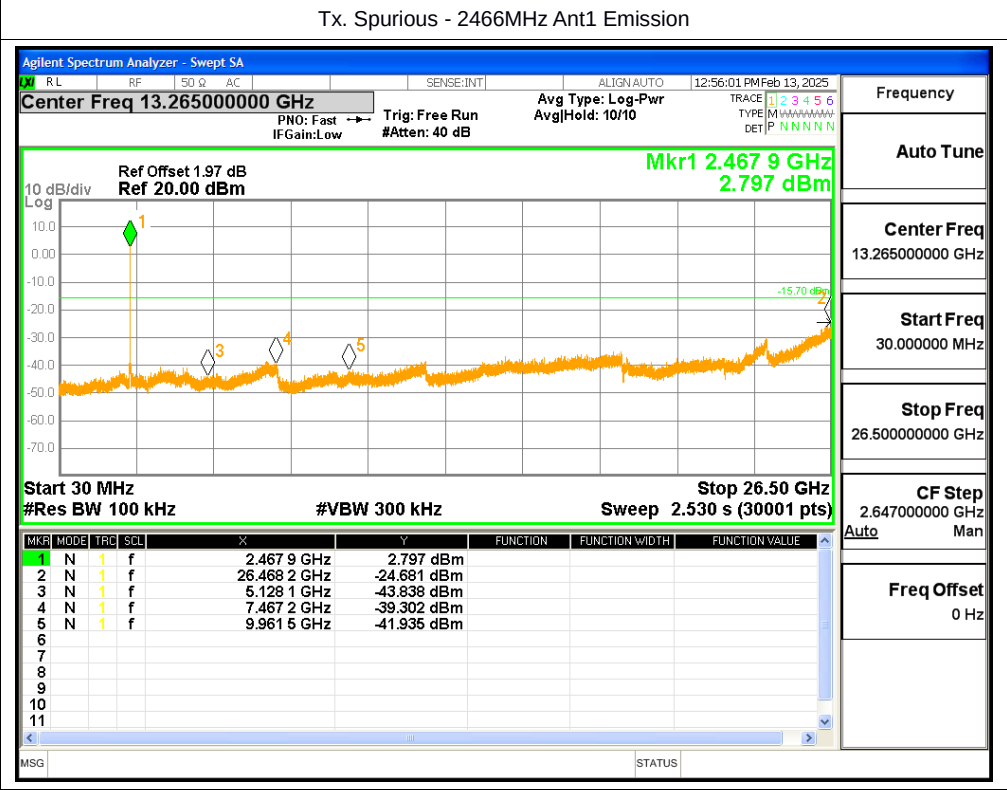
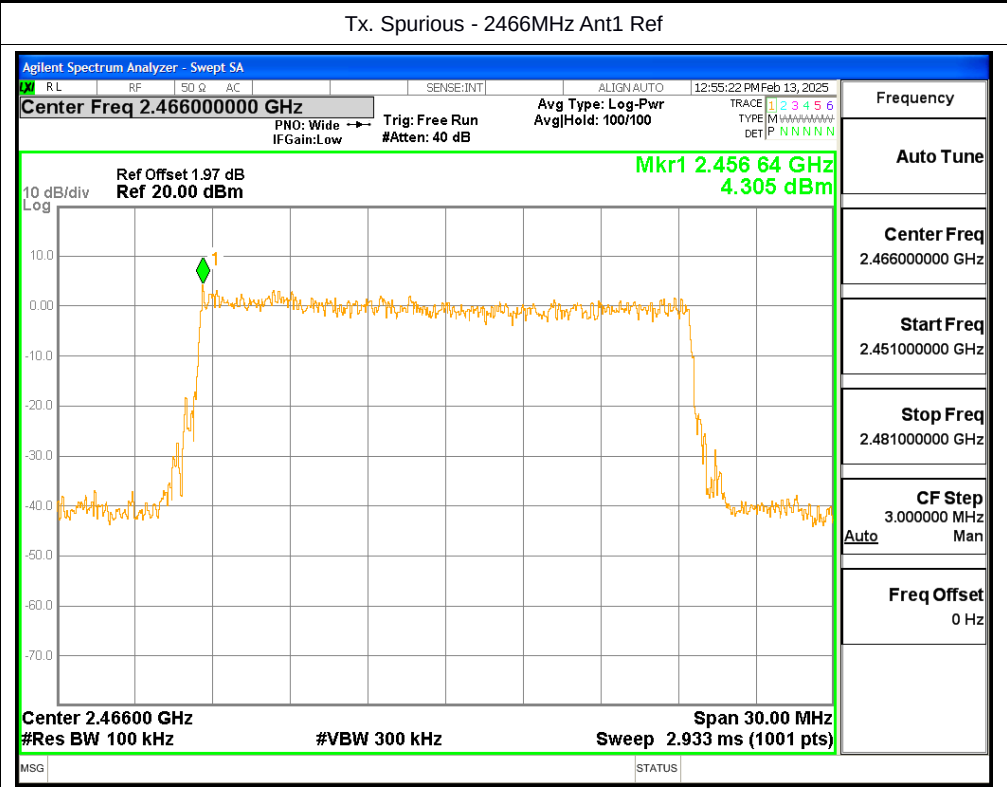
Tx. Spurious - 2411MHz Ant1 Emission



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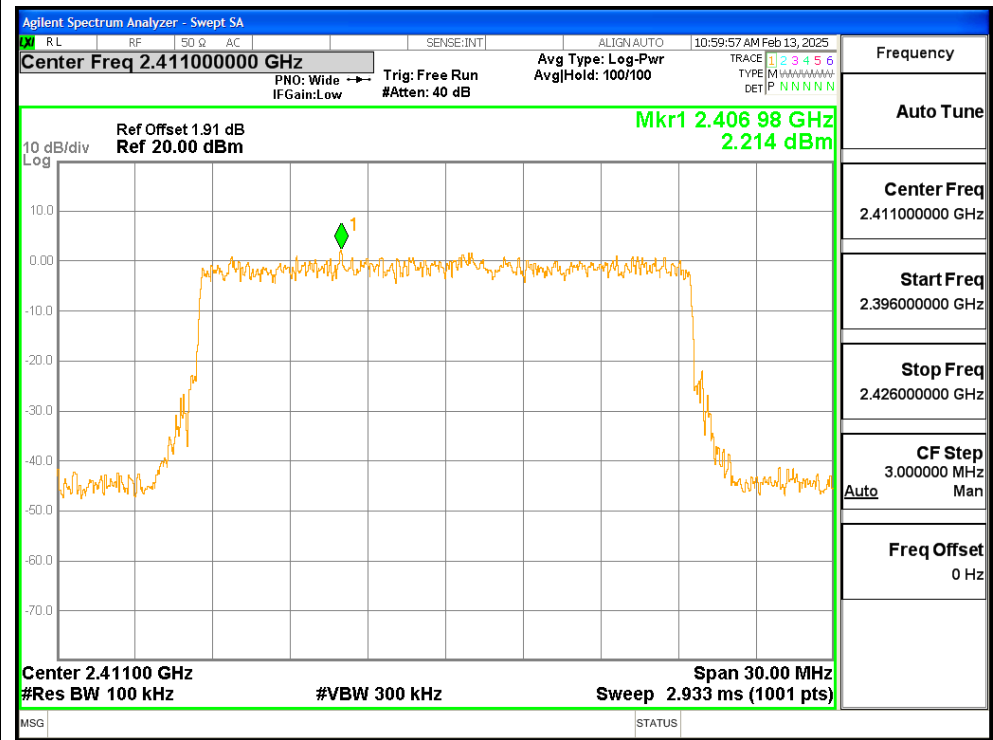


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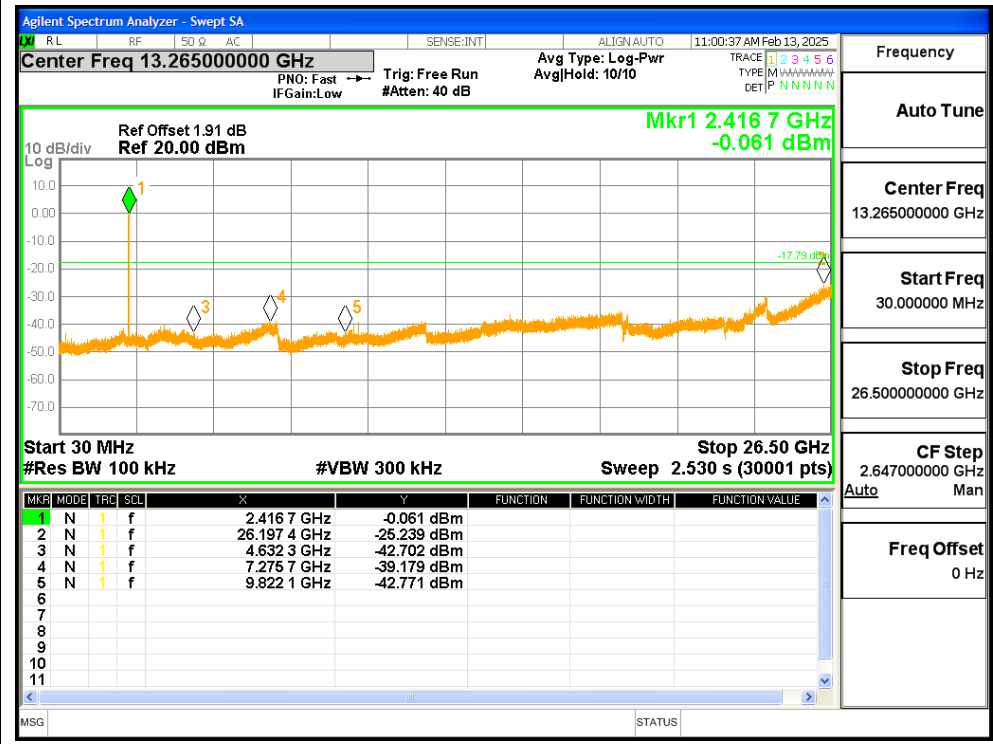


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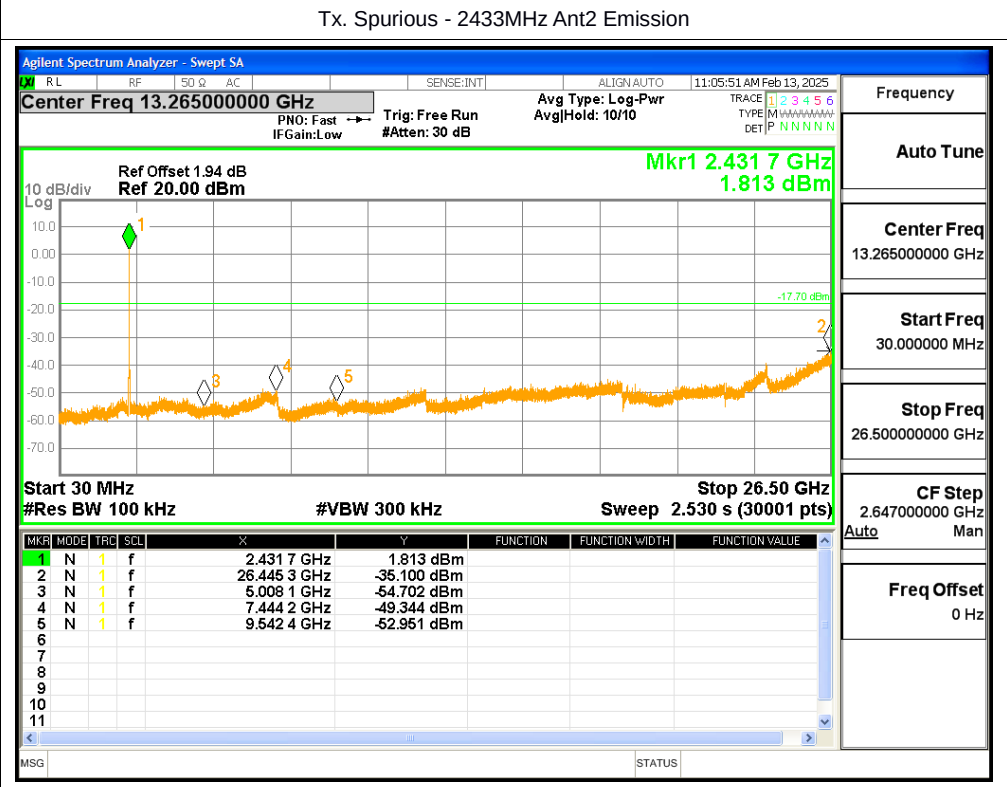
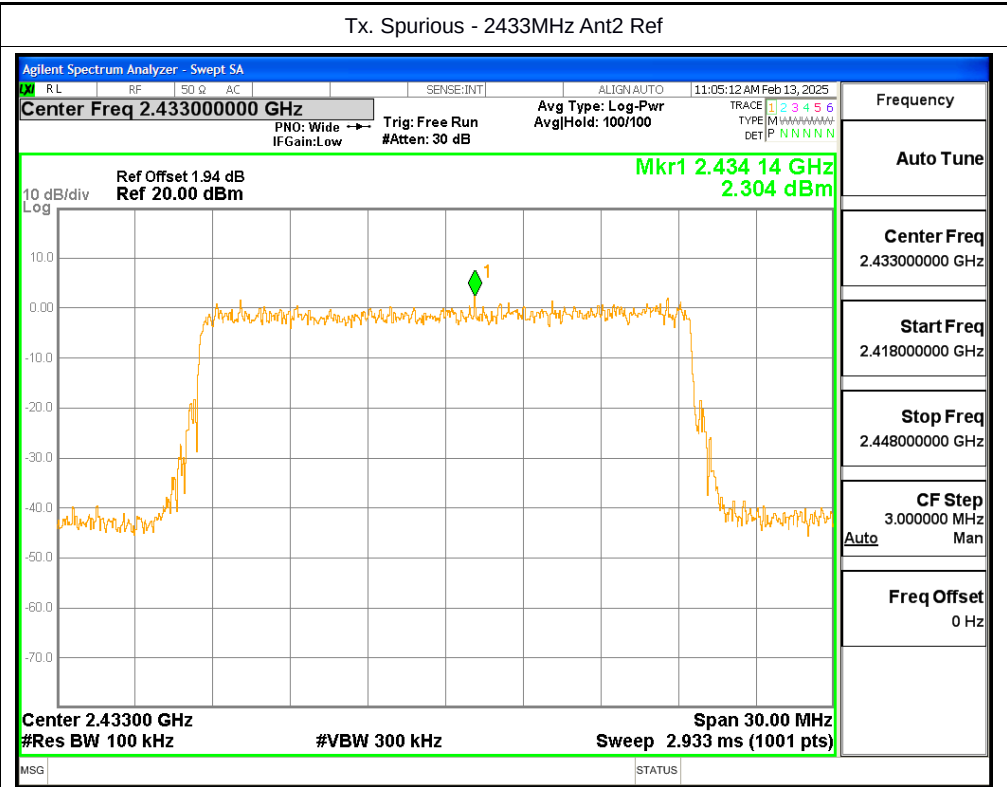
Tx. Spurious - 2411MHz Ant2 Ref



Tx. Spurious - 2411MHz Ant2 Emission



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GTSL2025020052F02

