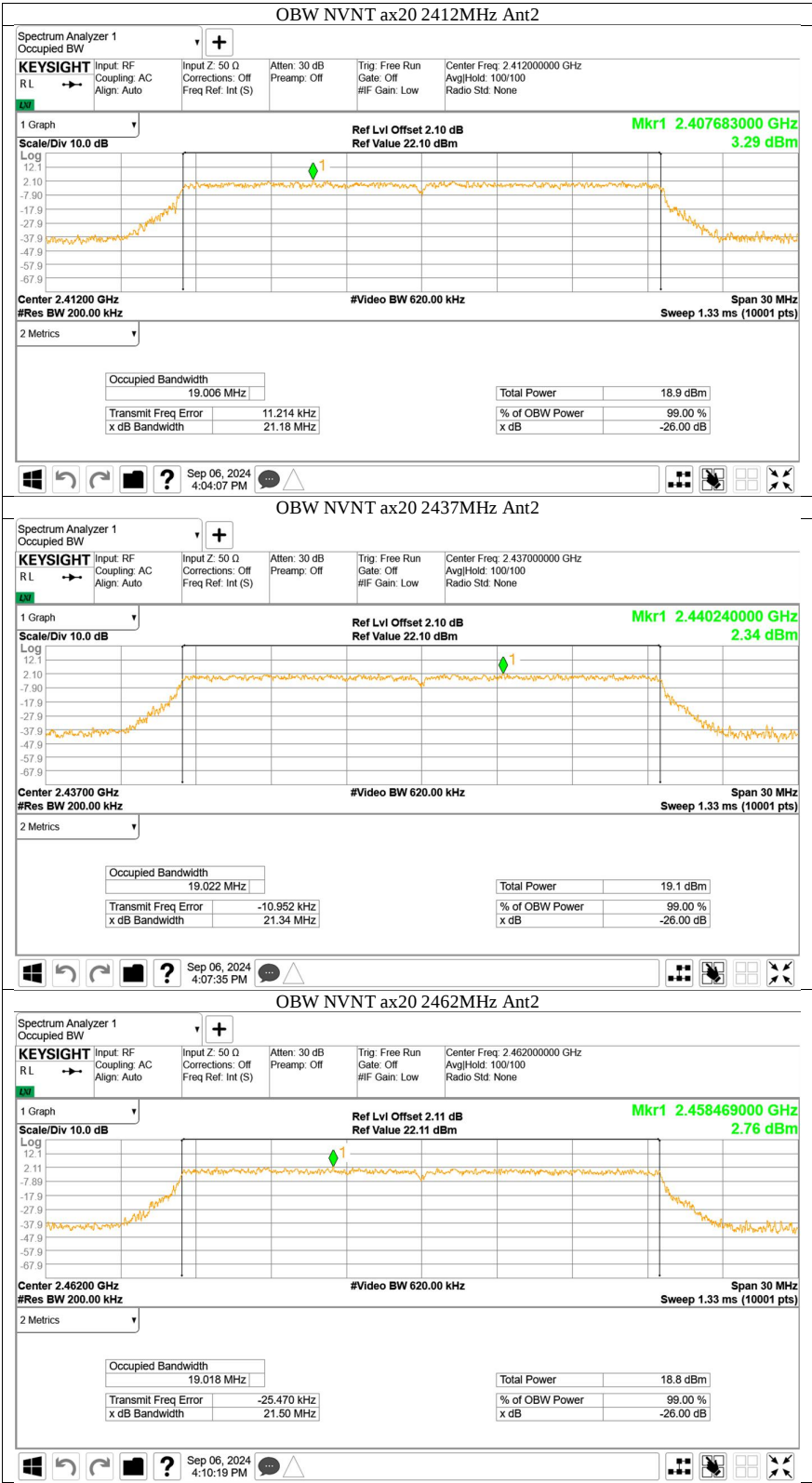






10.4 Power spectral density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
4. Set analyzer center frequency to DTS channel center frequency. RBW=3kHz, VBW $\geq$ 3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
5. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
6. Repeat above procedures until other frequencies measured were completed.

Limit

Limit [dBm/3KHz]

≤ 8



Test result
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Frequency	Power spectral density			Result
MHz	dBm/3kHz			
	Ant 1	Ant2	Sum	
Low channel 2412MHz	-9.53	-9.48	--	Pass
Middle channel 2437MHz	-9.01	-8.34	--	Pass
High channel 2462MHz	-8.9	-10.58	--	Pass

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Frequency	Power spectral density			Result
MHz	dBm/3kHz			
	Ant 1	Ant2	Sum	
Low channel 2412MHz	-12.16	-13.4	--	Pass
Middle channel 2437MHz	-13.16	-14.27	--	Pass
High channel 2462MHz	-14.09	-13.92	--	Pass

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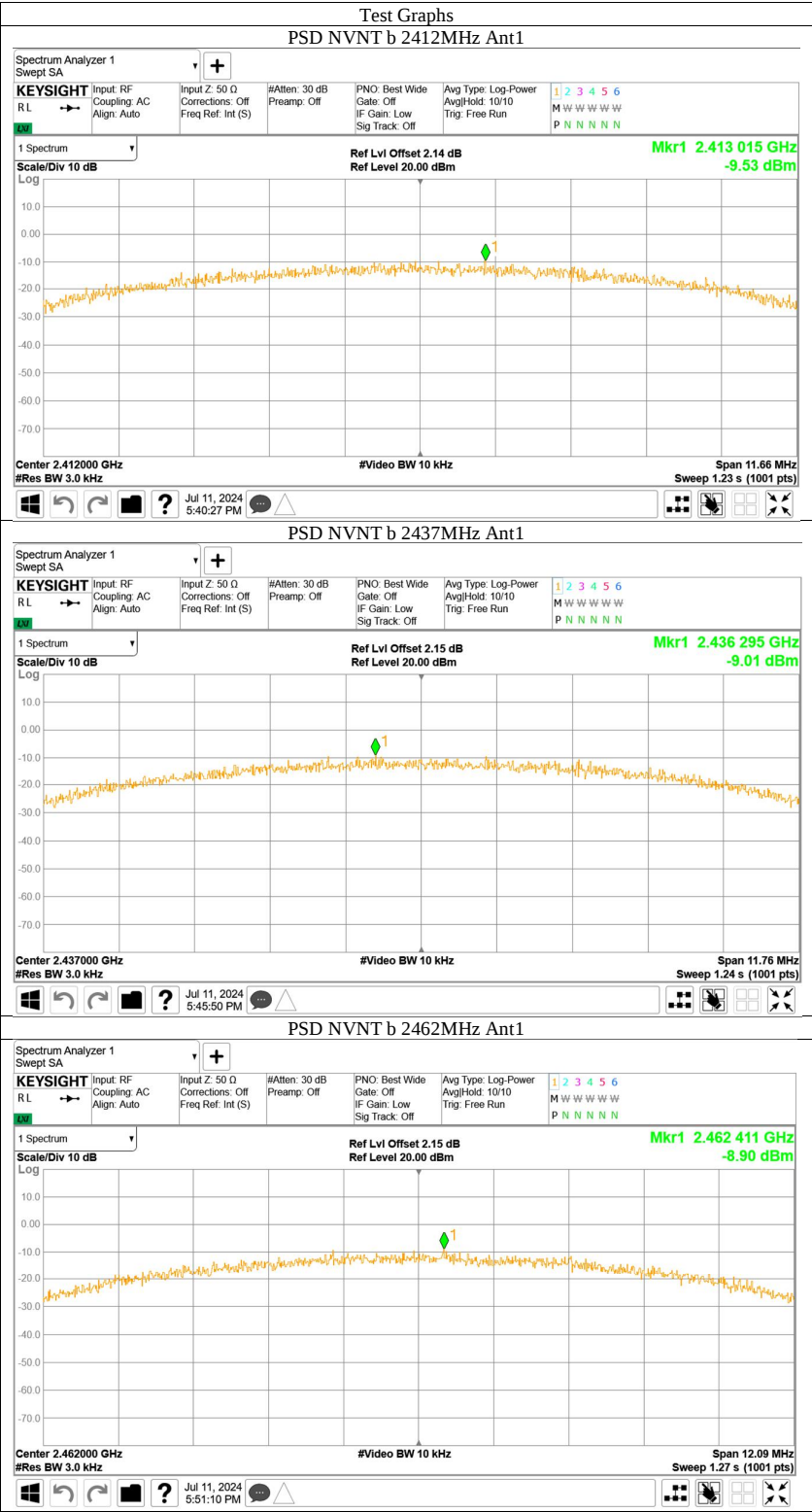
Frequency	Power spectral density			Result
MHz	dBm/3kHz			
	Ant 1	Ant2	Sum	
Low channel 2412MHz	-14.07	-13.73	-10.89	Pass
Middle channel 2437MHz	-13.54	-13.99	-10.75	Pass
High channel 2462MHz	-13.13	-14.66	-10.82	Pass

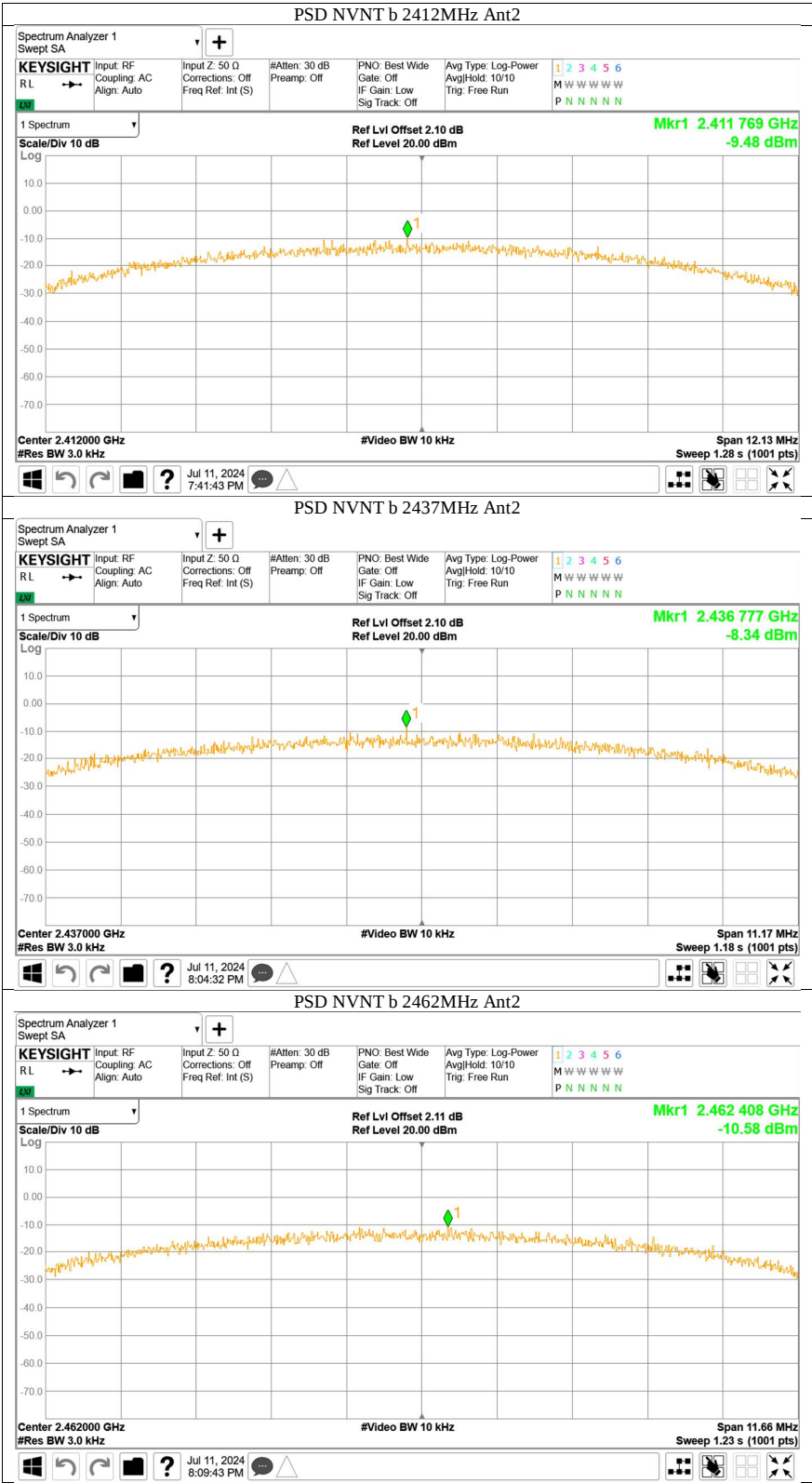
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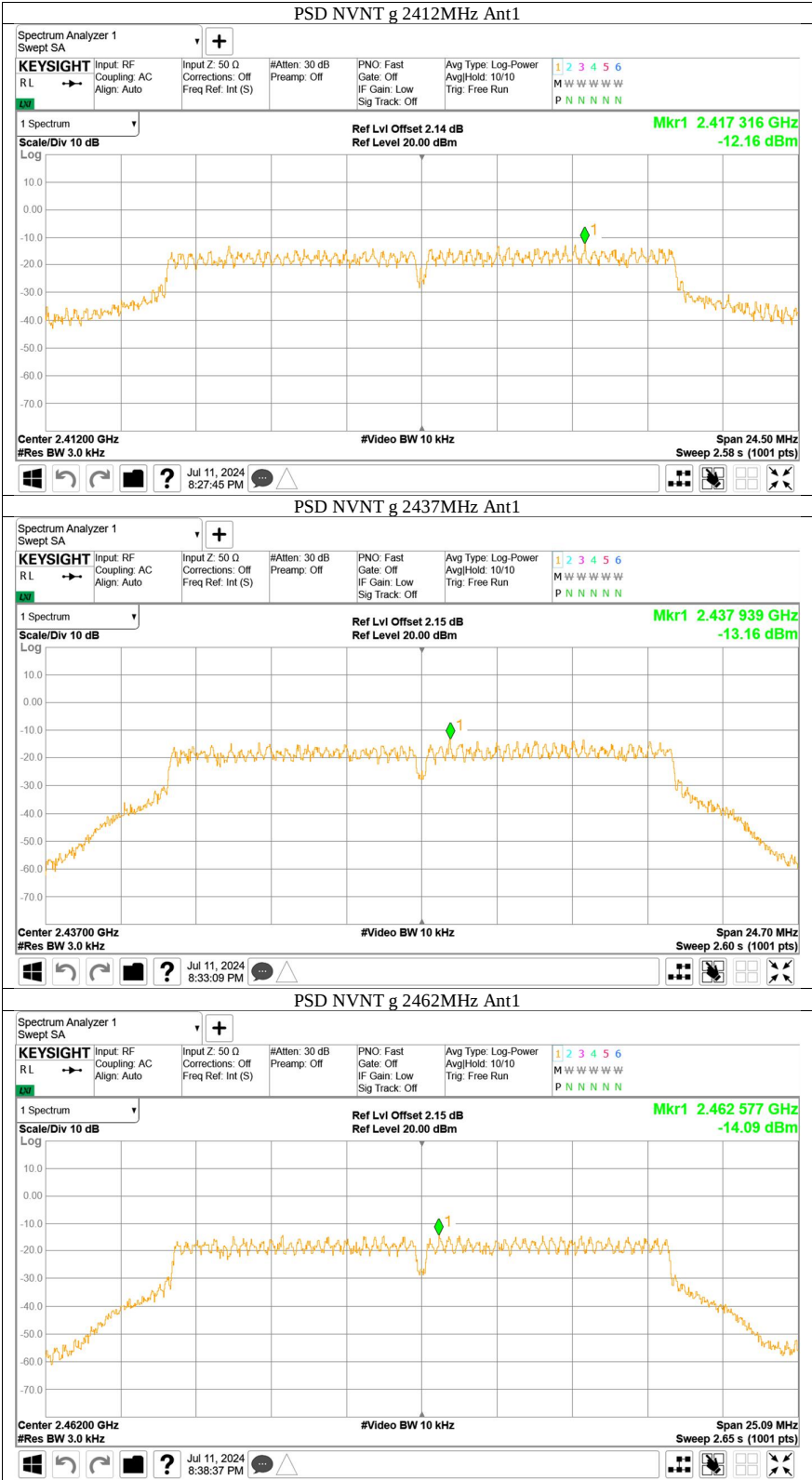
Frequency	Power spectral density			Result
MHz	dBm/3kHz			
	Ant 1	Ant2	Sum	
Low channel 2412MHz	-14.05	-14.82	-11.41	Pass
Middle channel 2437MHz	-14.34	-14.44	-11.38	Pass
High channel 2462MHz	-13.6	-14.54	-11.03	Pass

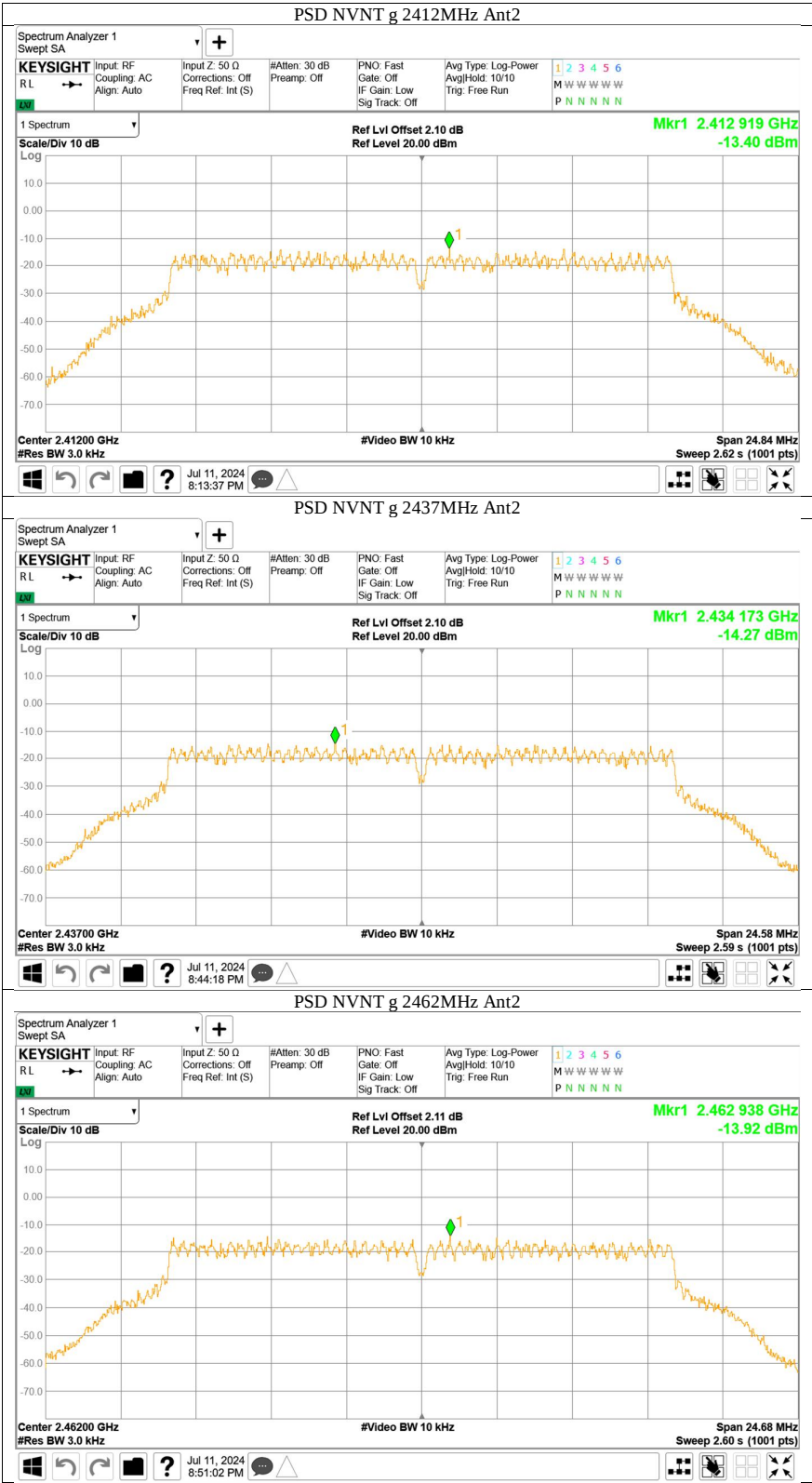


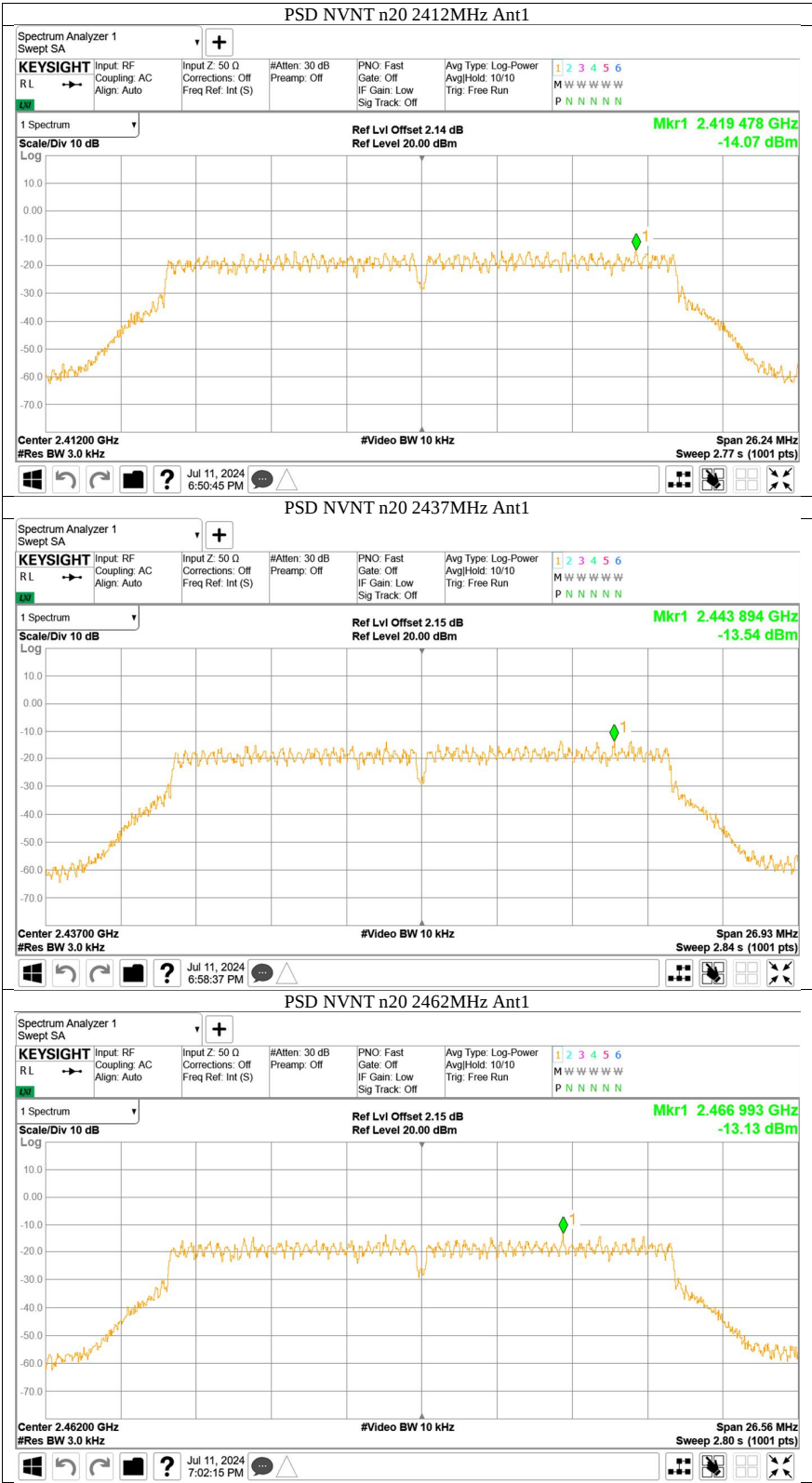
Power spectral density

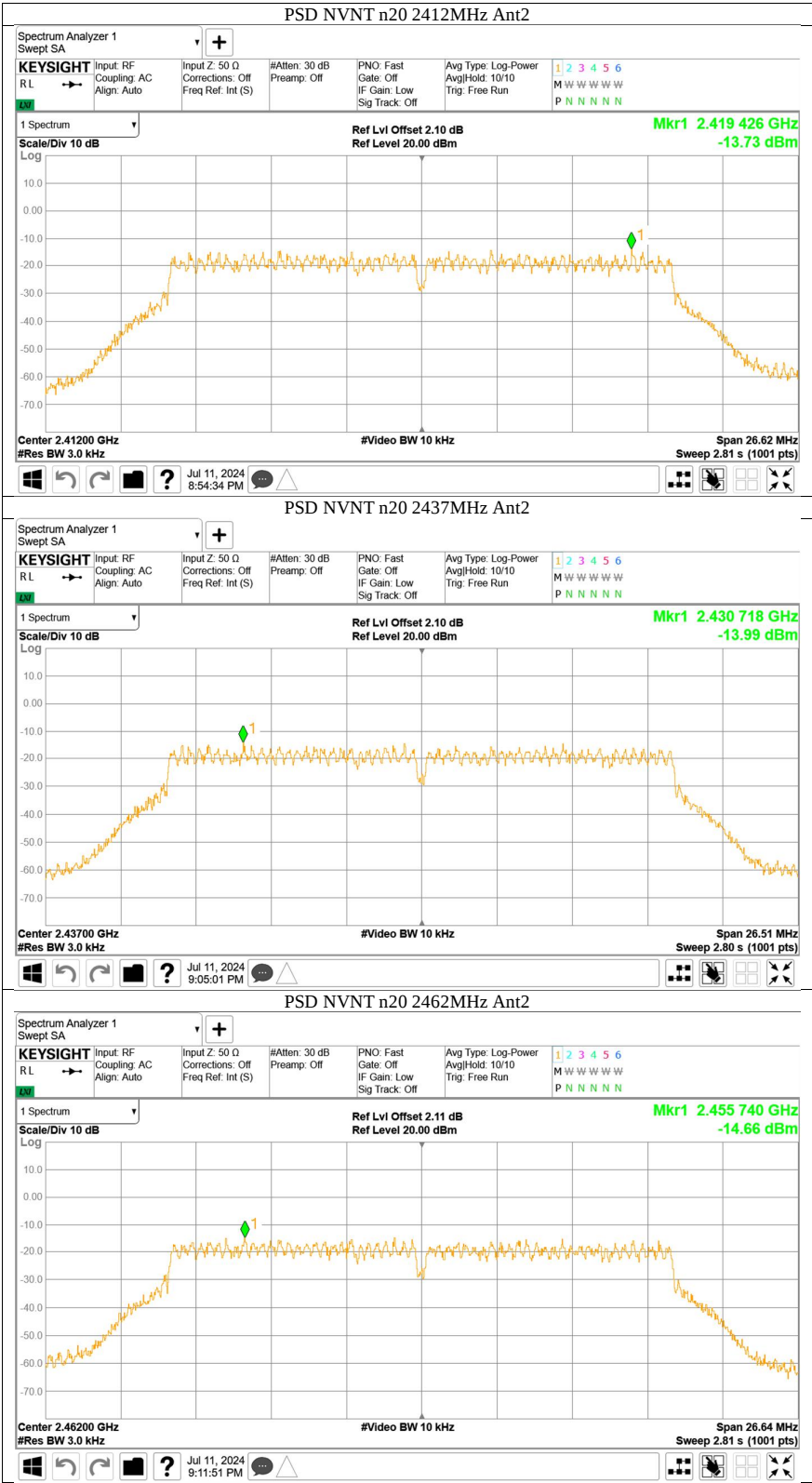


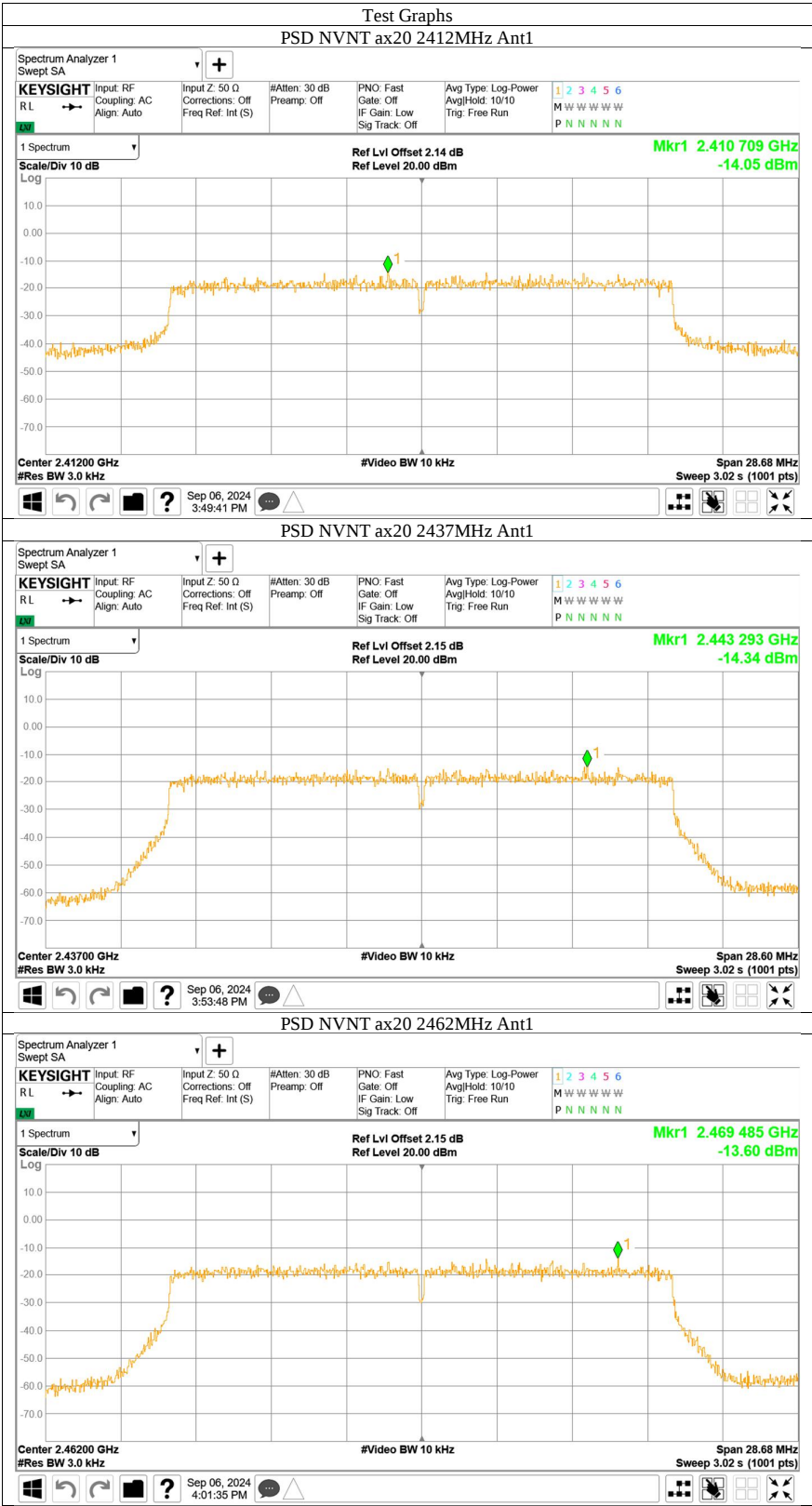


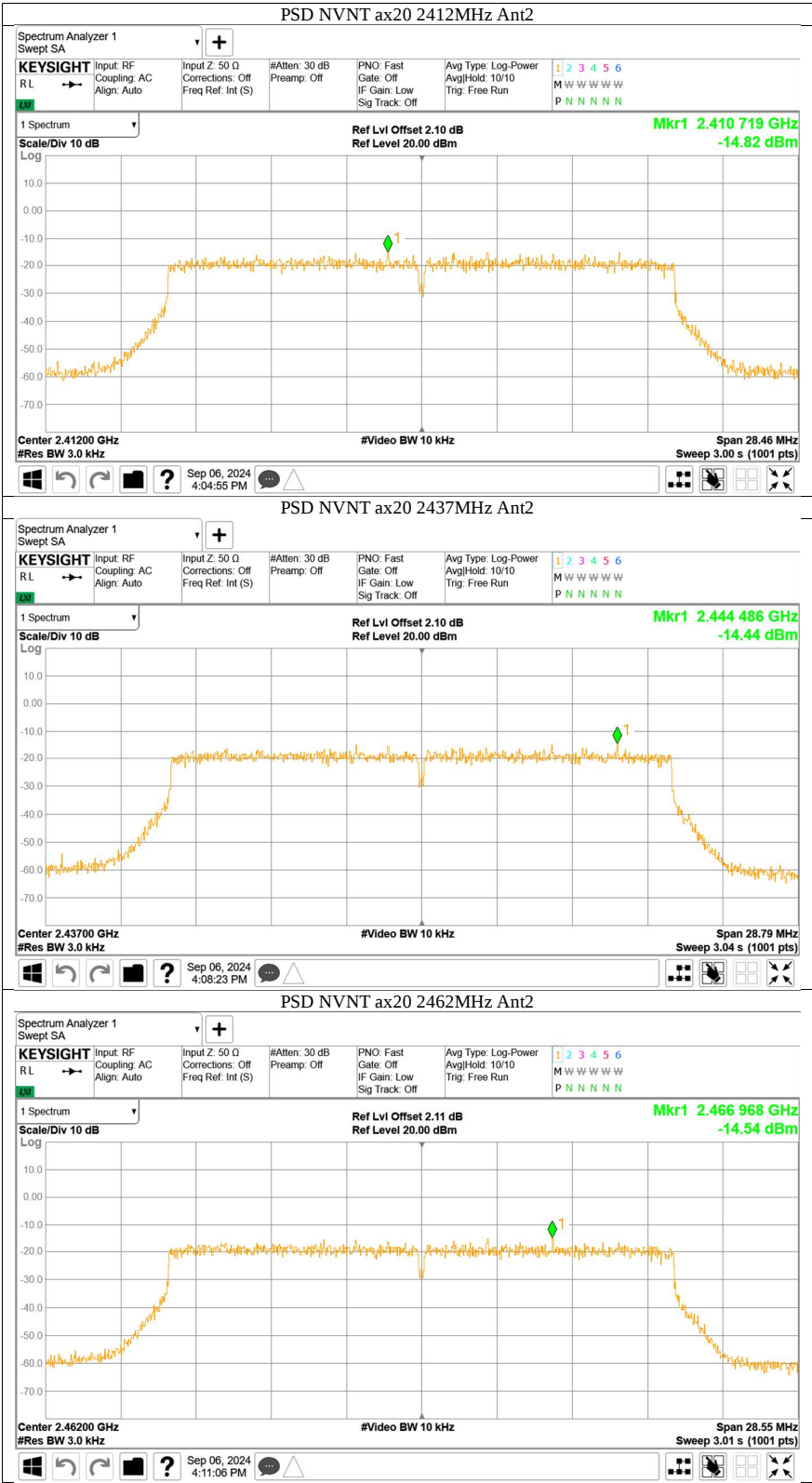














10.5 Spurious RF conducted emissions

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
RBW = 100 kHz, VBW ≥ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
5. The level displayed must comply with the limit specified in this Section. Submit these plots.
6. Repeat above procedures until all frequencies measured were complete.

Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20



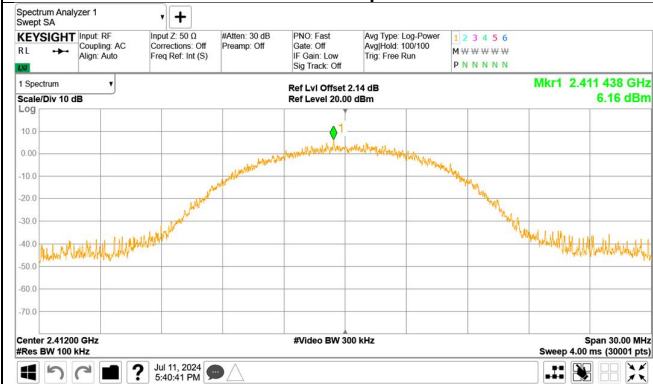
Spurious RF conducted emissions

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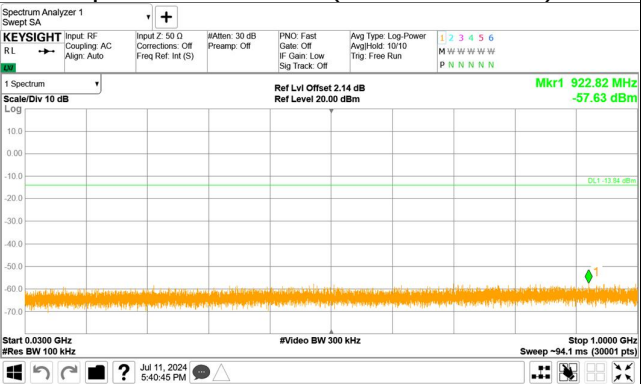
Out-of-Band Emissions

Channel 1 (2412MHz)

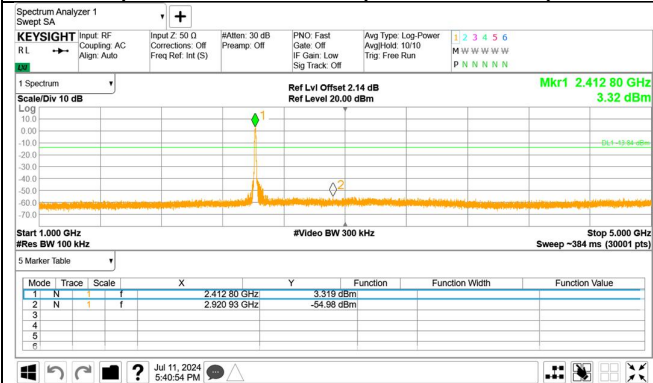
Reference point



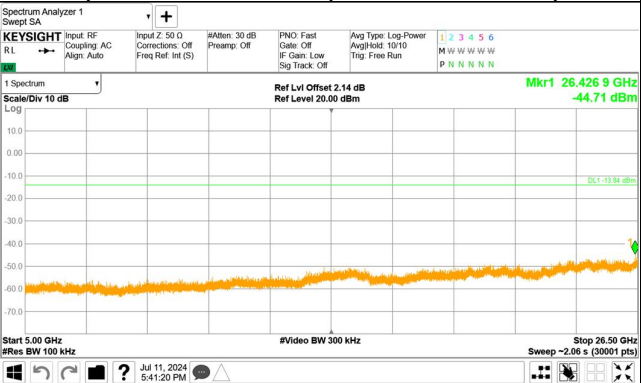
Spurious Emission (30MHz – 1GHz)

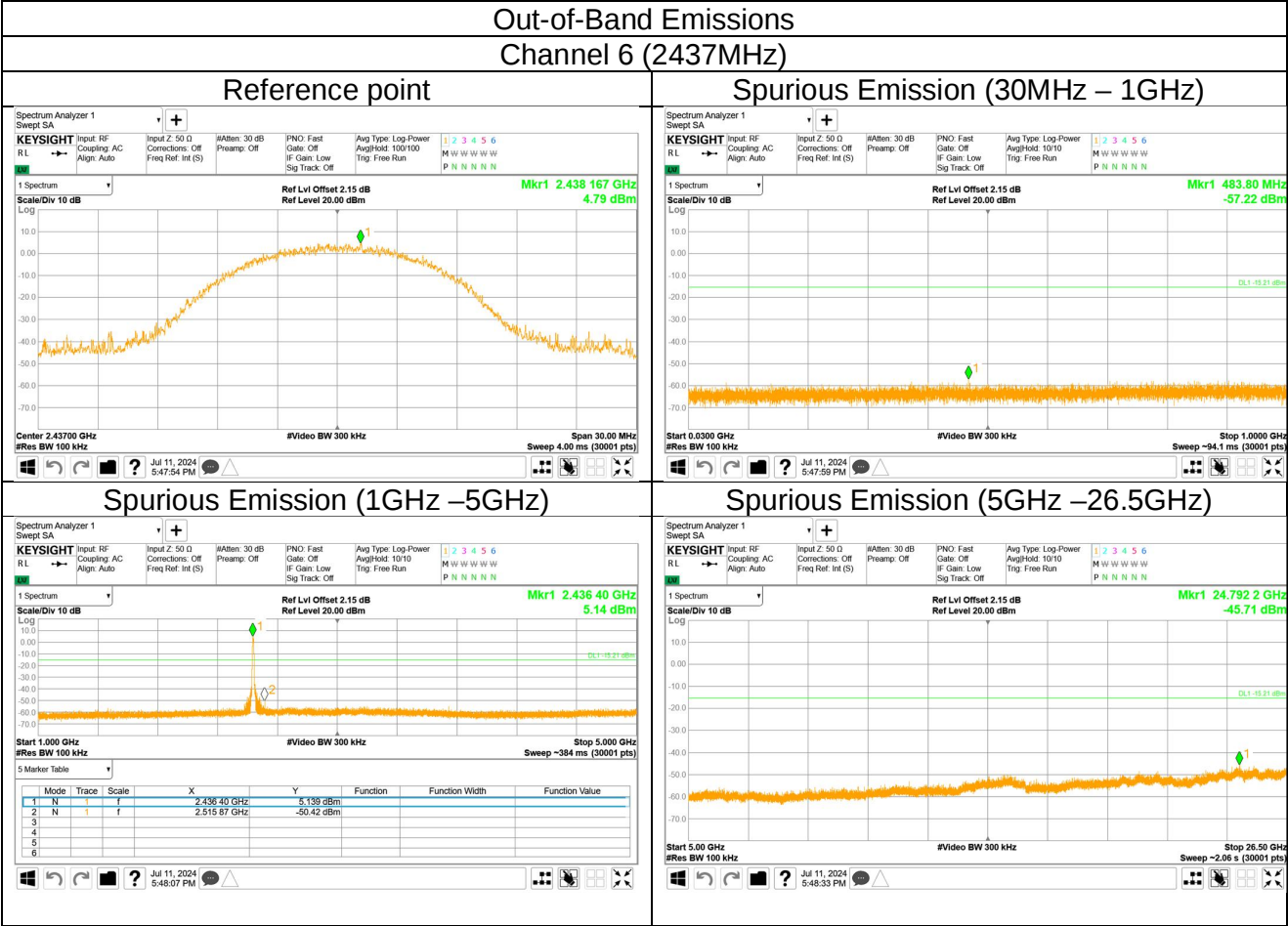


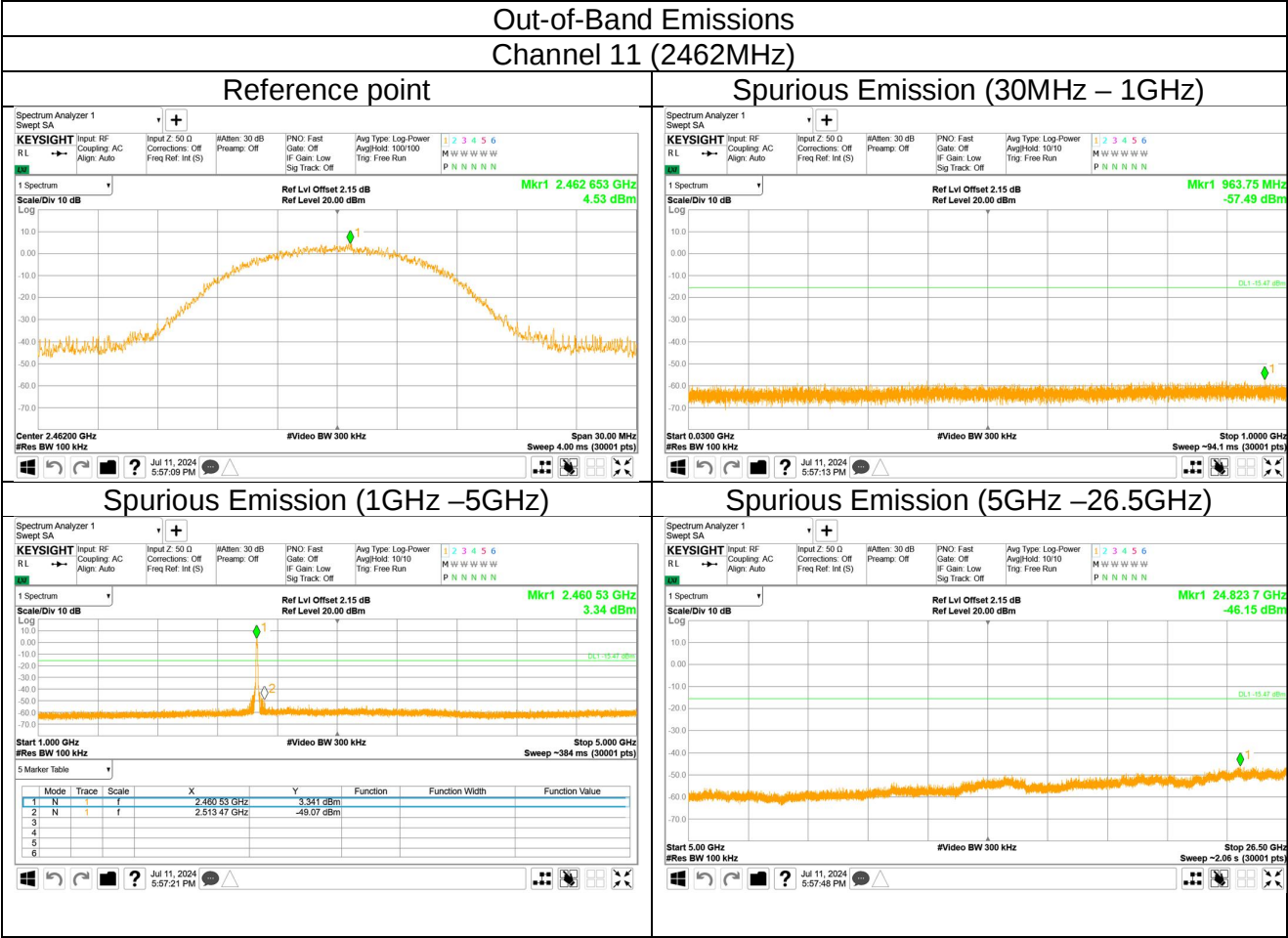
Spurious Emission (1GHz –5GHz)



Spurious Emission (5GHz –26.5GHz)





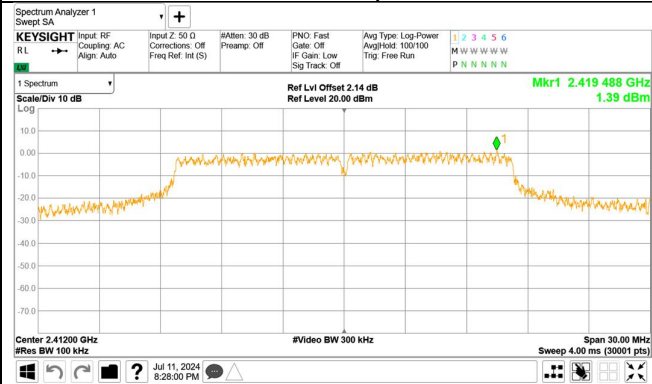




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Out-of-Band Emissions
Channel 1 (2412MHz)

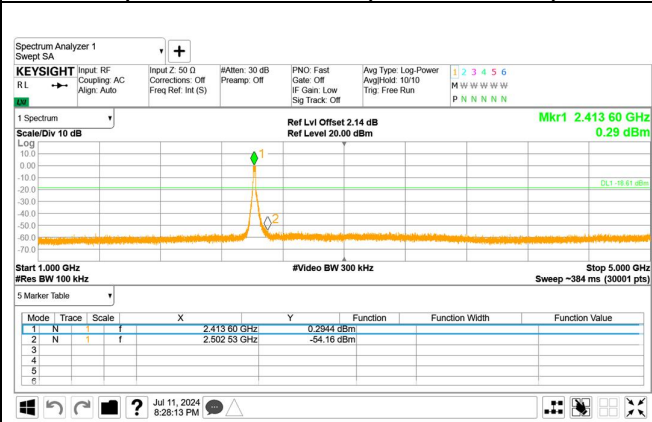
Reference point



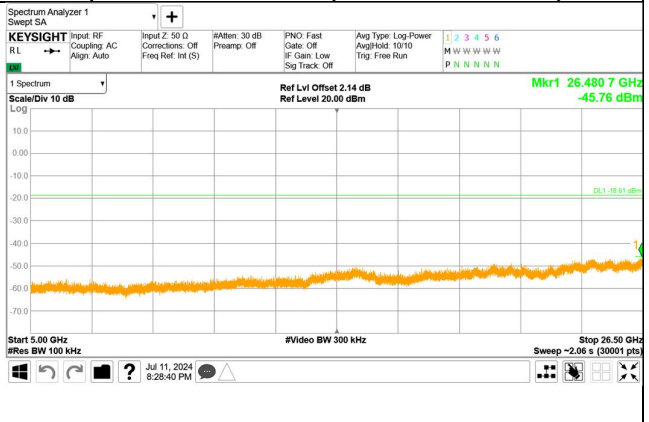
Spurious Emission (30MHz – 1GHz)

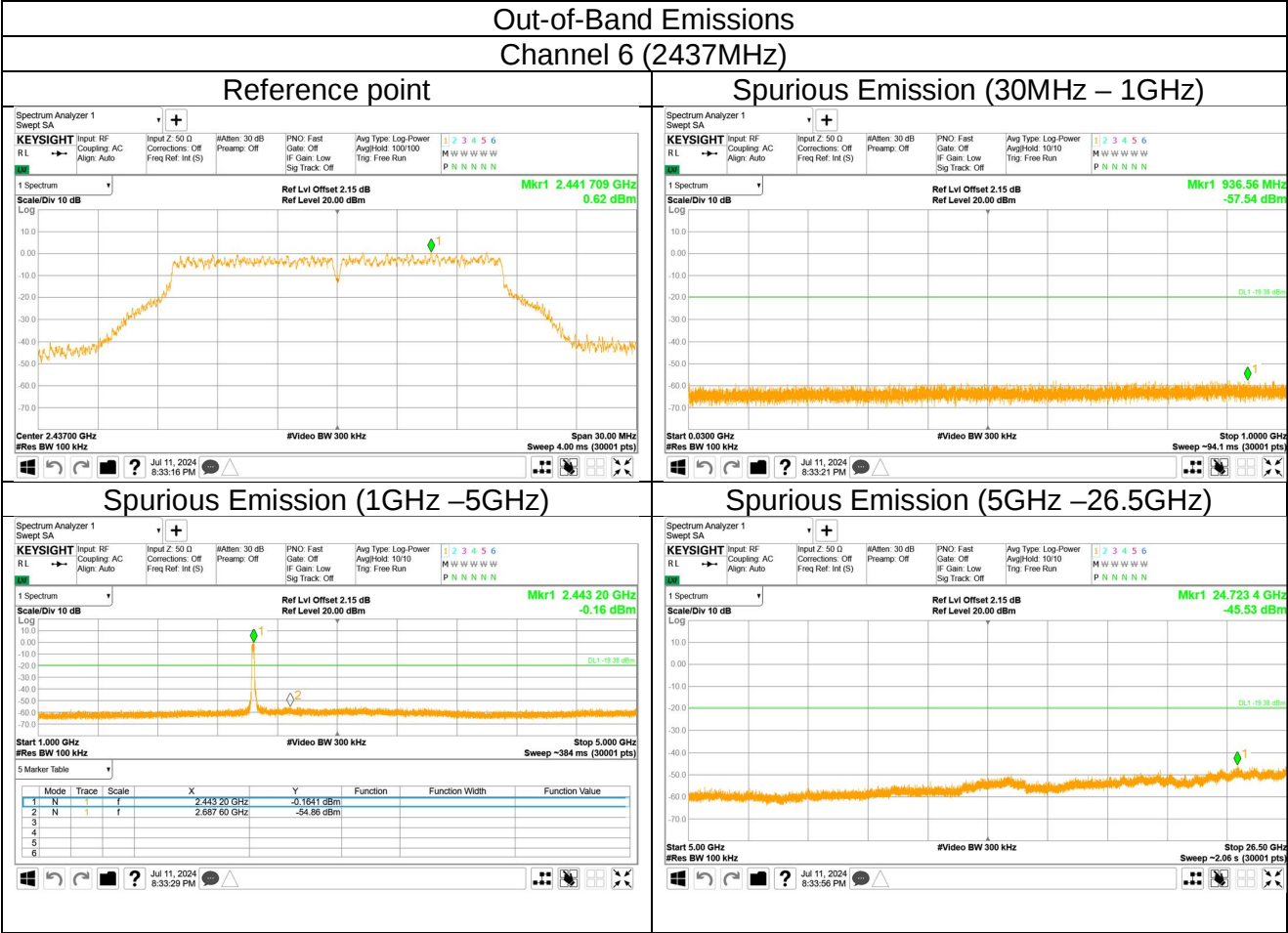


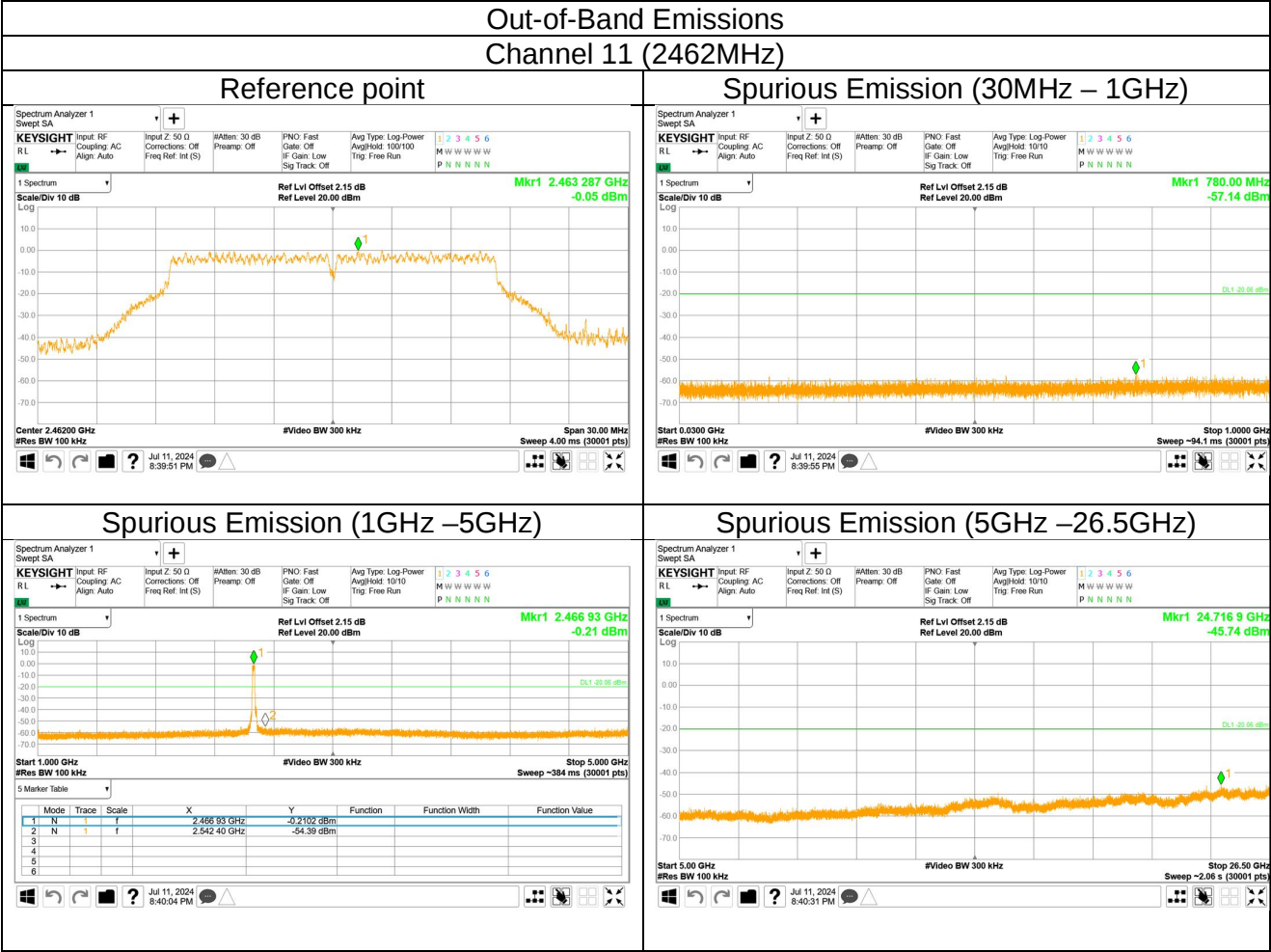
Spurious Emission (1GHz –5GHz)



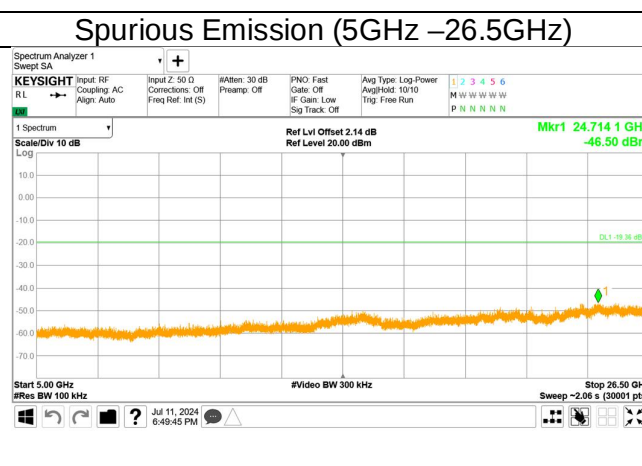
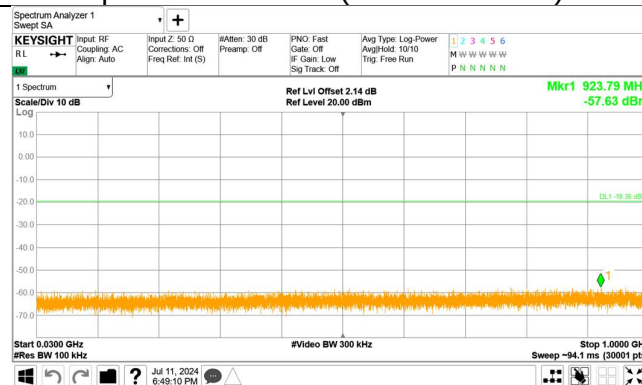
Spurious Emission (5GHz –26.5GHz)







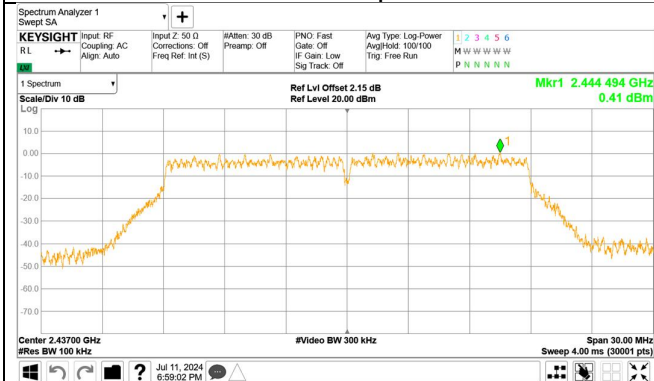
Spurious Emission (30MHz – 1GHz)





Out-of-Band Emissions
Channel 6 (2437MHz)

Reference point



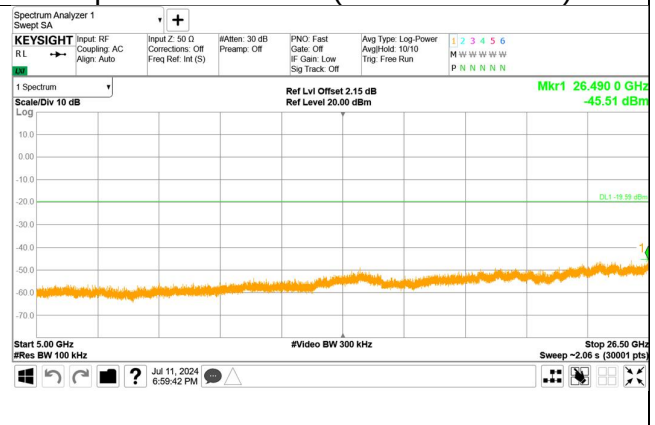
Spurious Emission (30MHz – 1GHz)

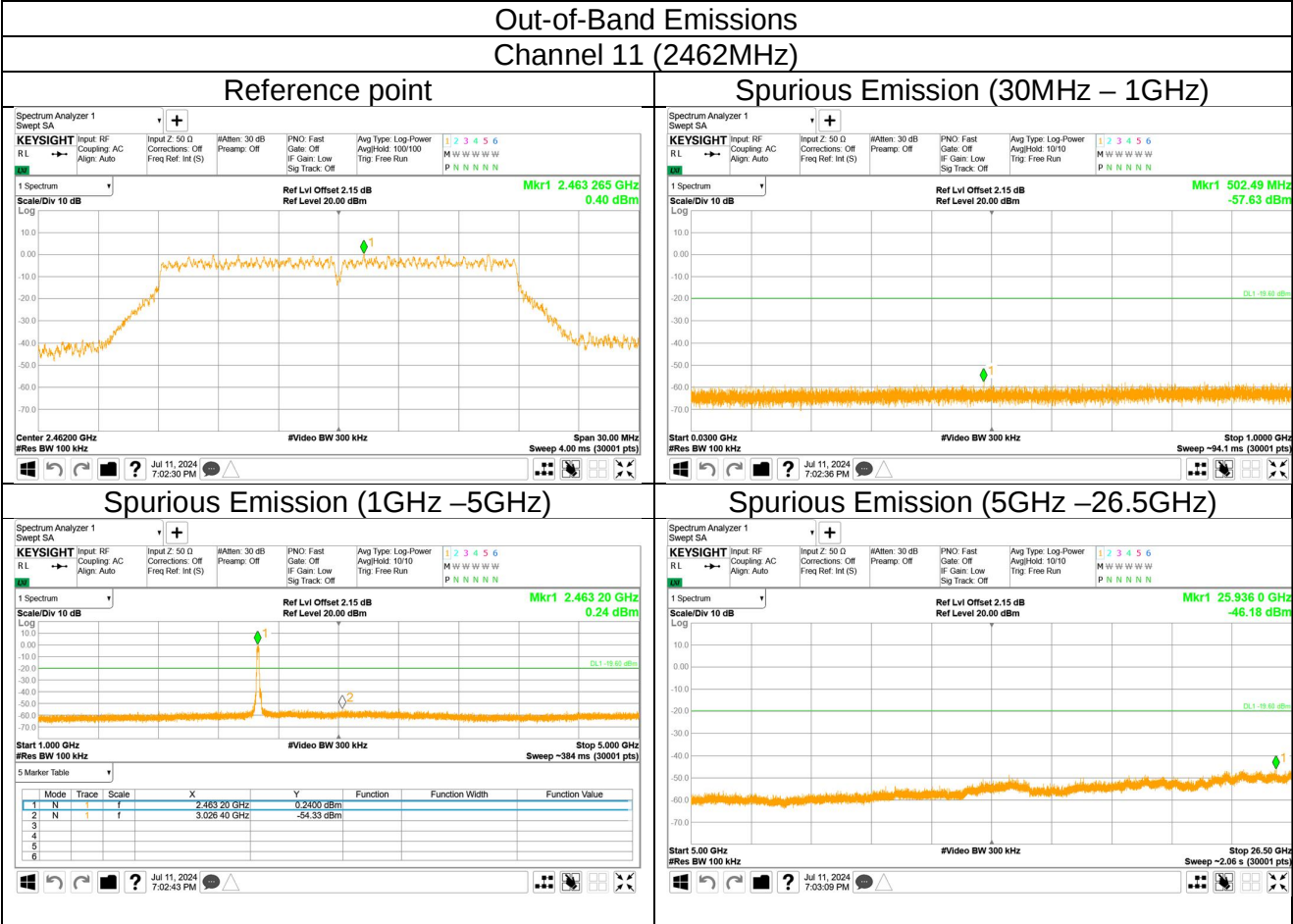


Spurious Emission (1GHz –5GHz)



Spurious Emission (5GHz –26.5GHz)





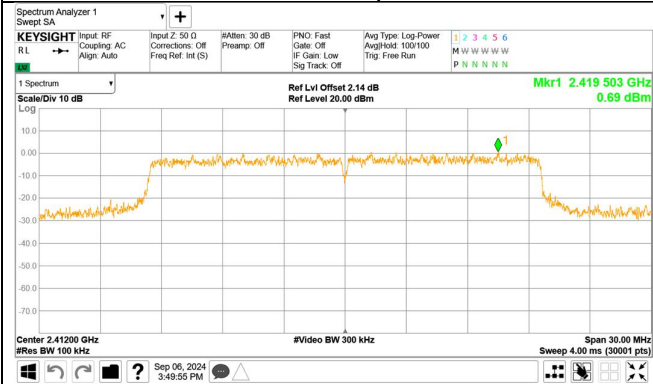


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Out-of-Band Emissions

Channel 1 (2412MHz)

Reference point



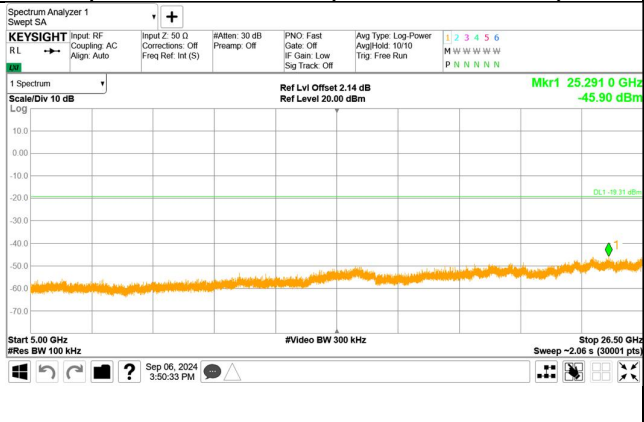
Spurious Emission (30MHz – 1GHz)

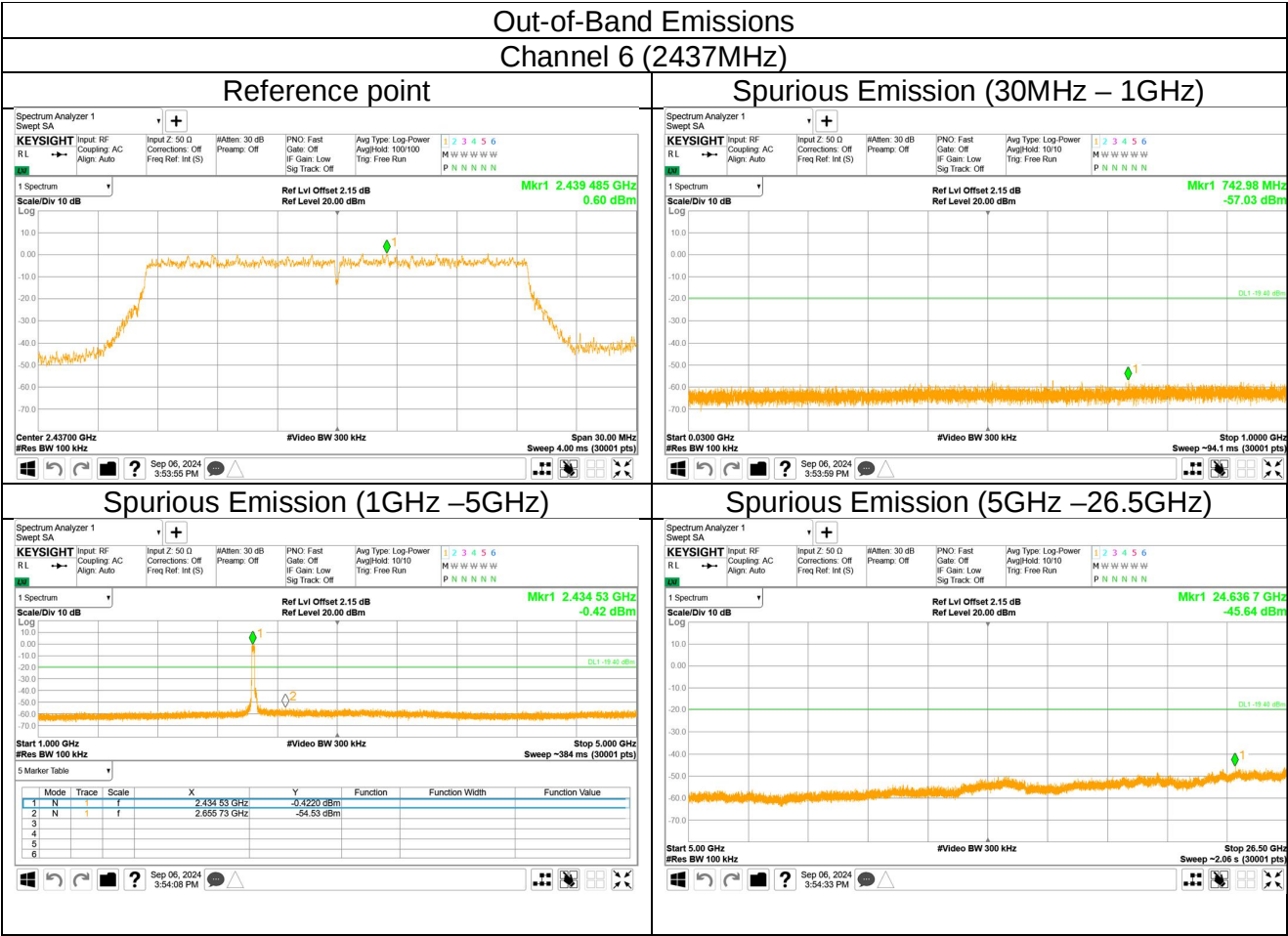


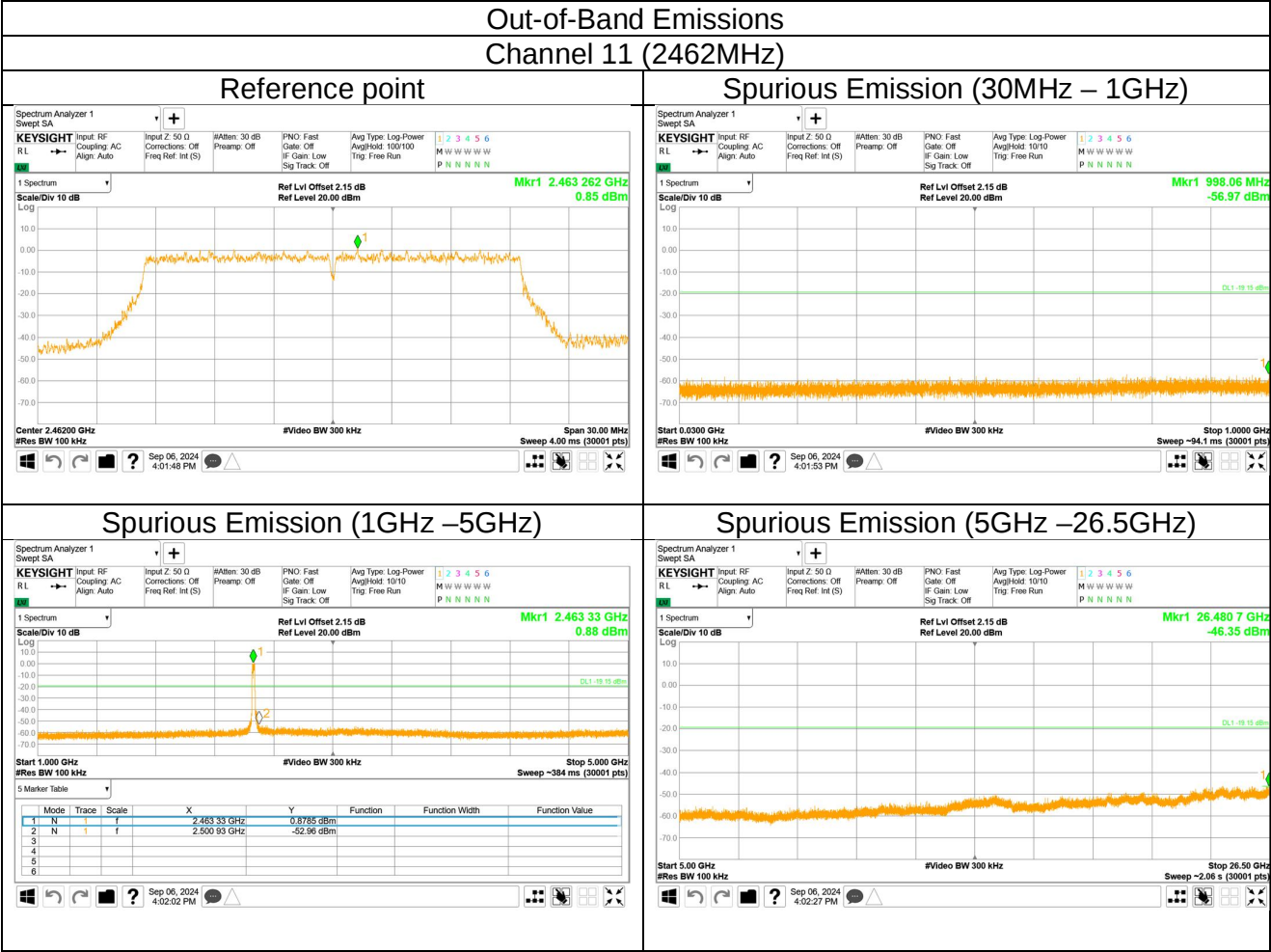
Spurious Emission (1GHz –5GHz)



Spurious Emission (5GHz –26.5GHz)







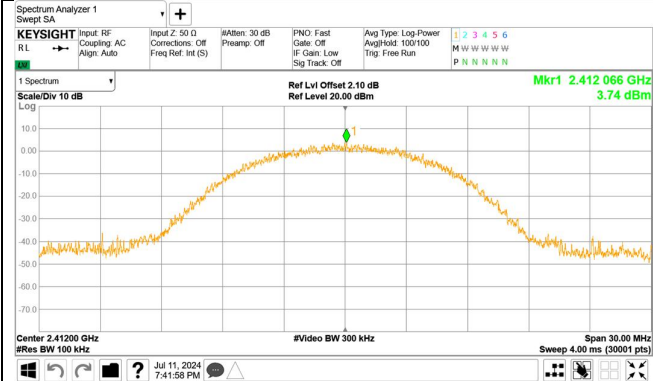


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Out-of-Band Emissions

Channel 1 (2412MHz)

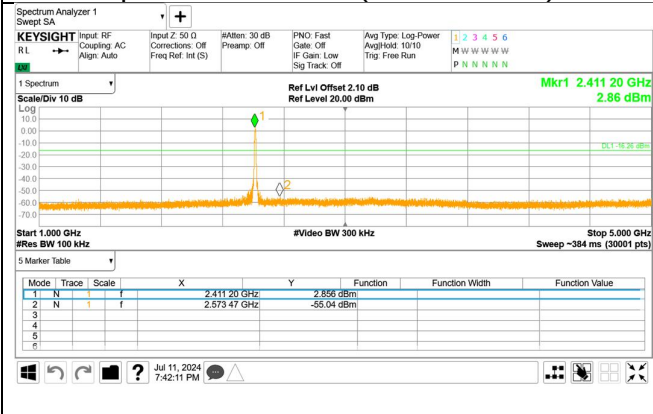
Reference point



Spurious Emission (30MHz – 1GHz)



Spurious Emission (1GHz –5GHz)



Spurious Emission (5GHz –26.5GHz)

