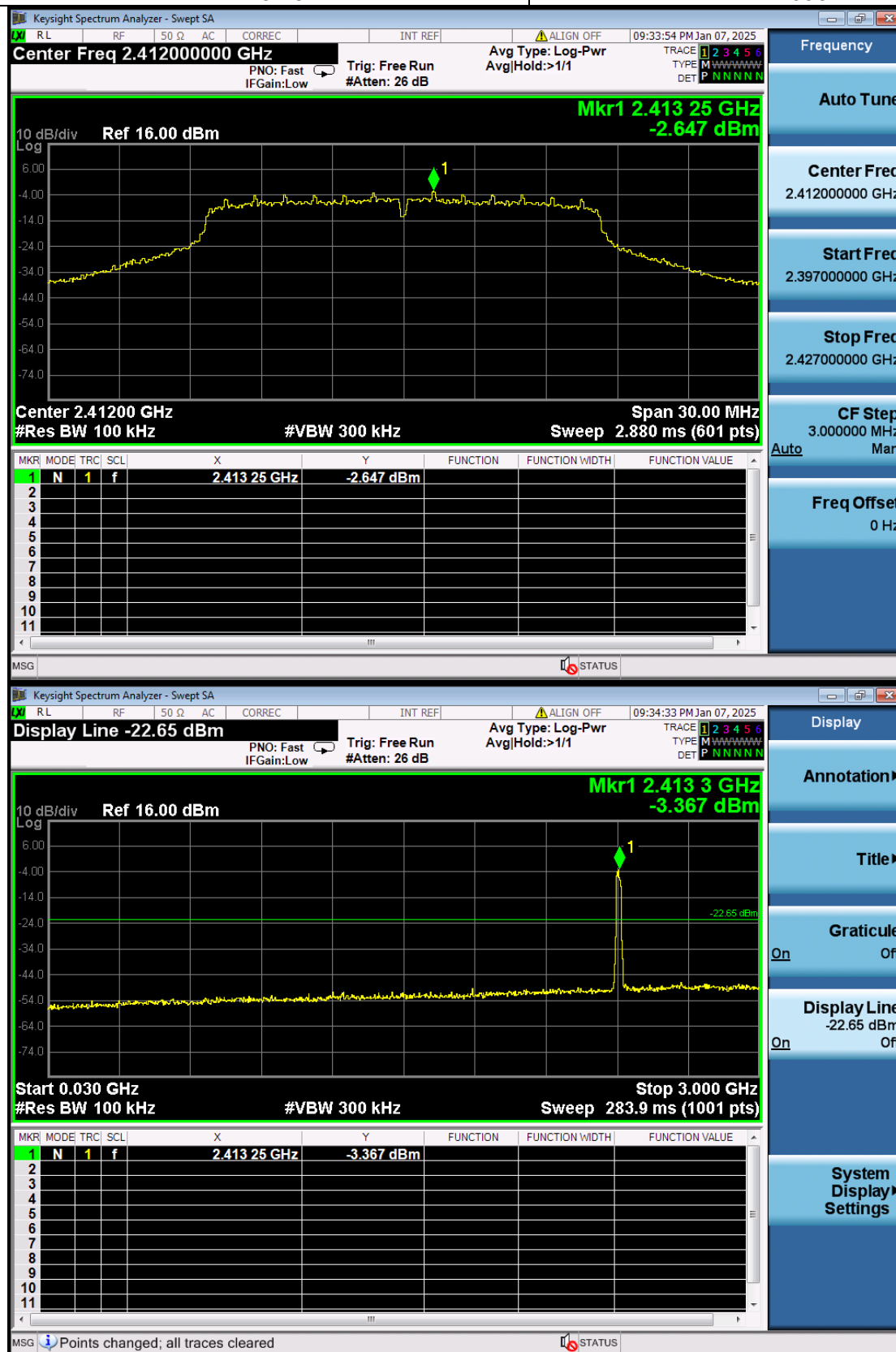


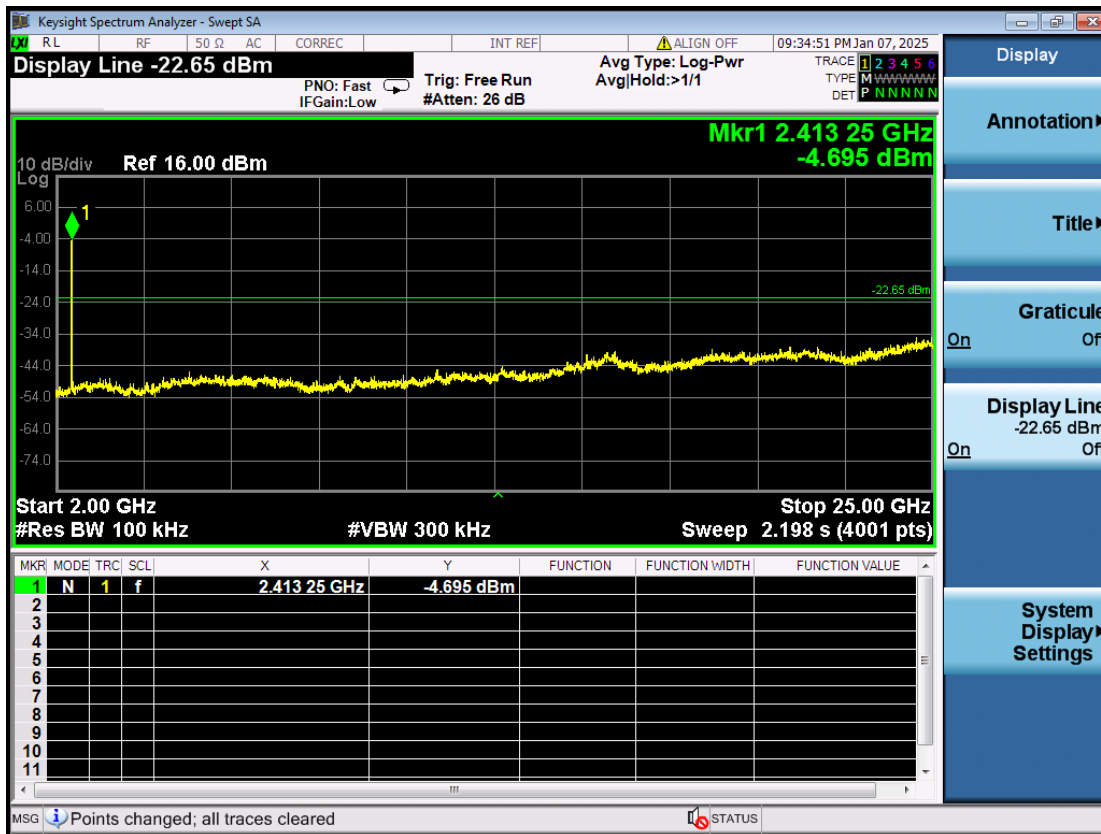


2. 802.11g

2.1 A.3-Conducted Spurious Emissions(Test Freq:2412MHz, Test Mode:6Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2413.25	-3.367
2413.25	-4.695

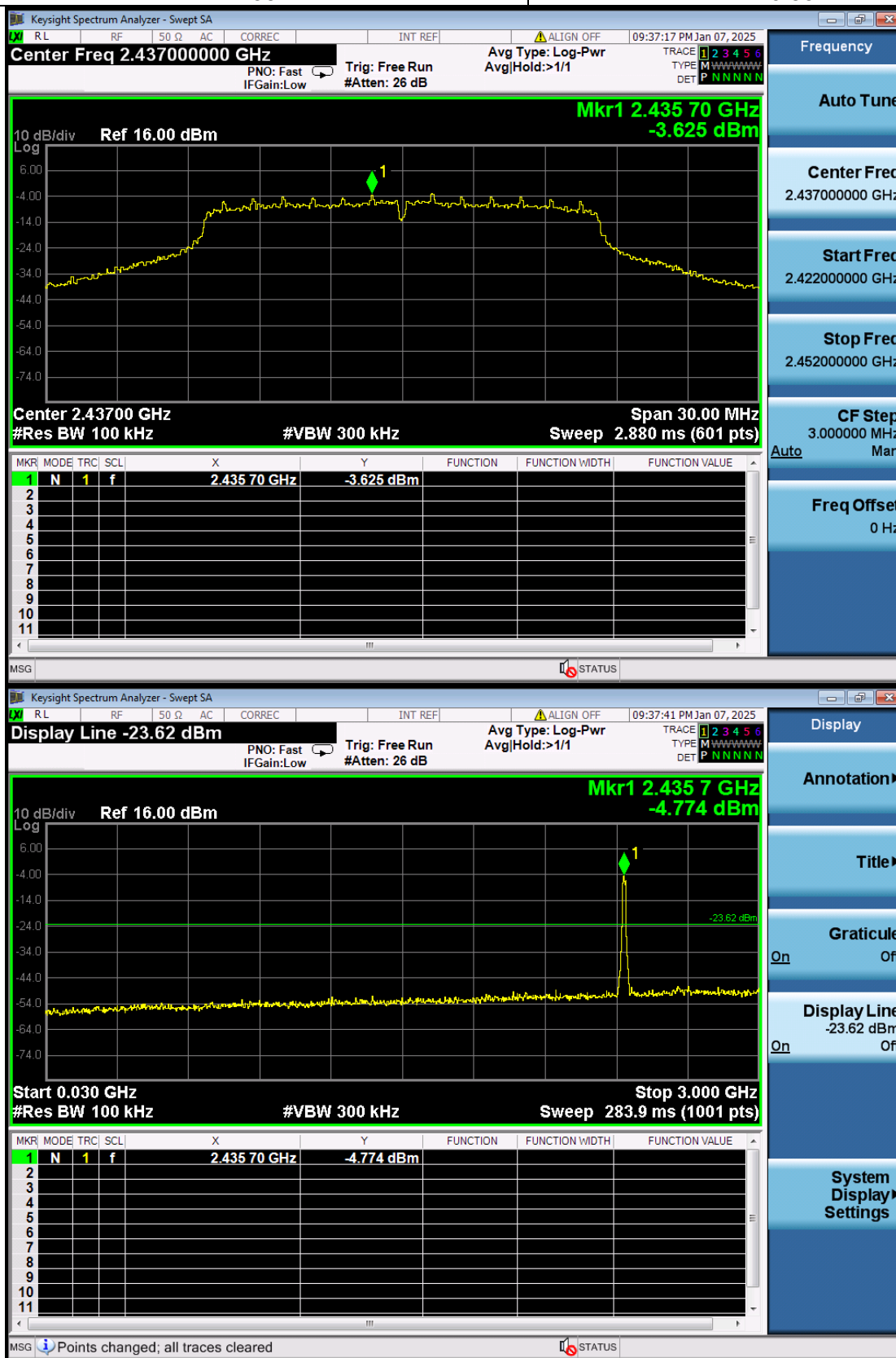


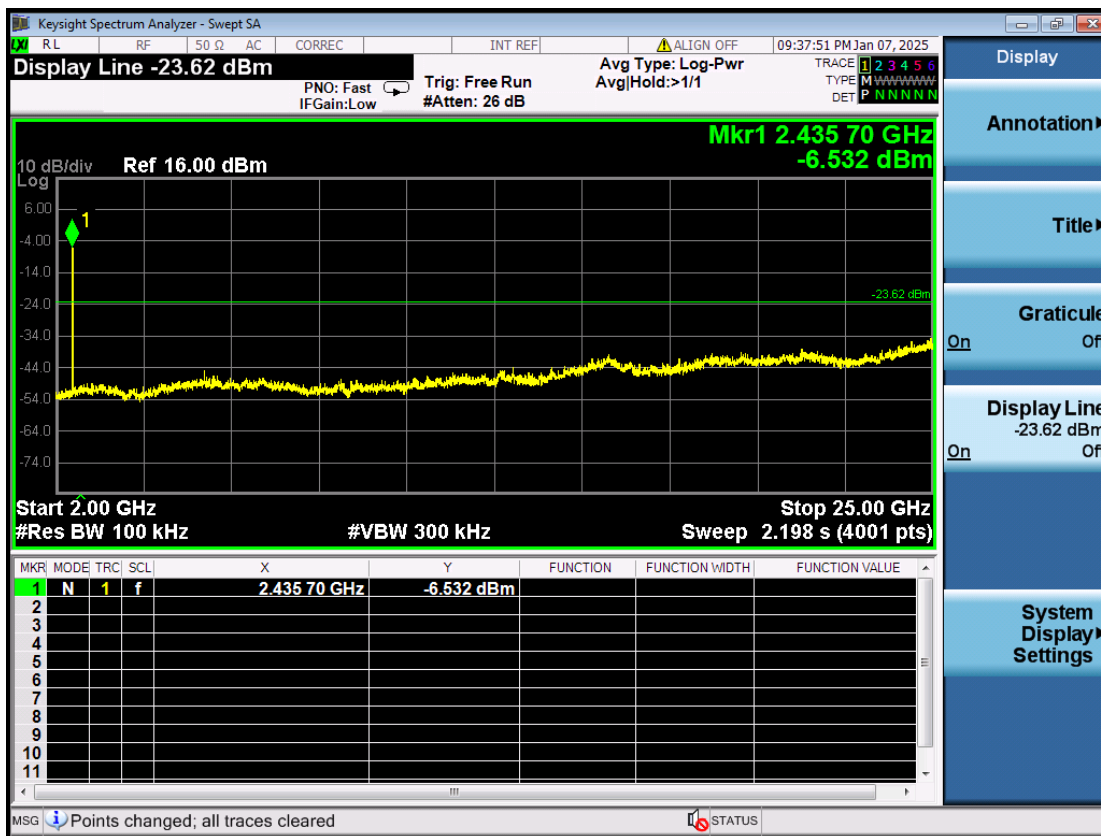




2.2 A.3-Conducted Spurious Emissions(Test Freq:2437MHz, Test Mode:6Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2435.7	-4.774
2435.7	-6.532

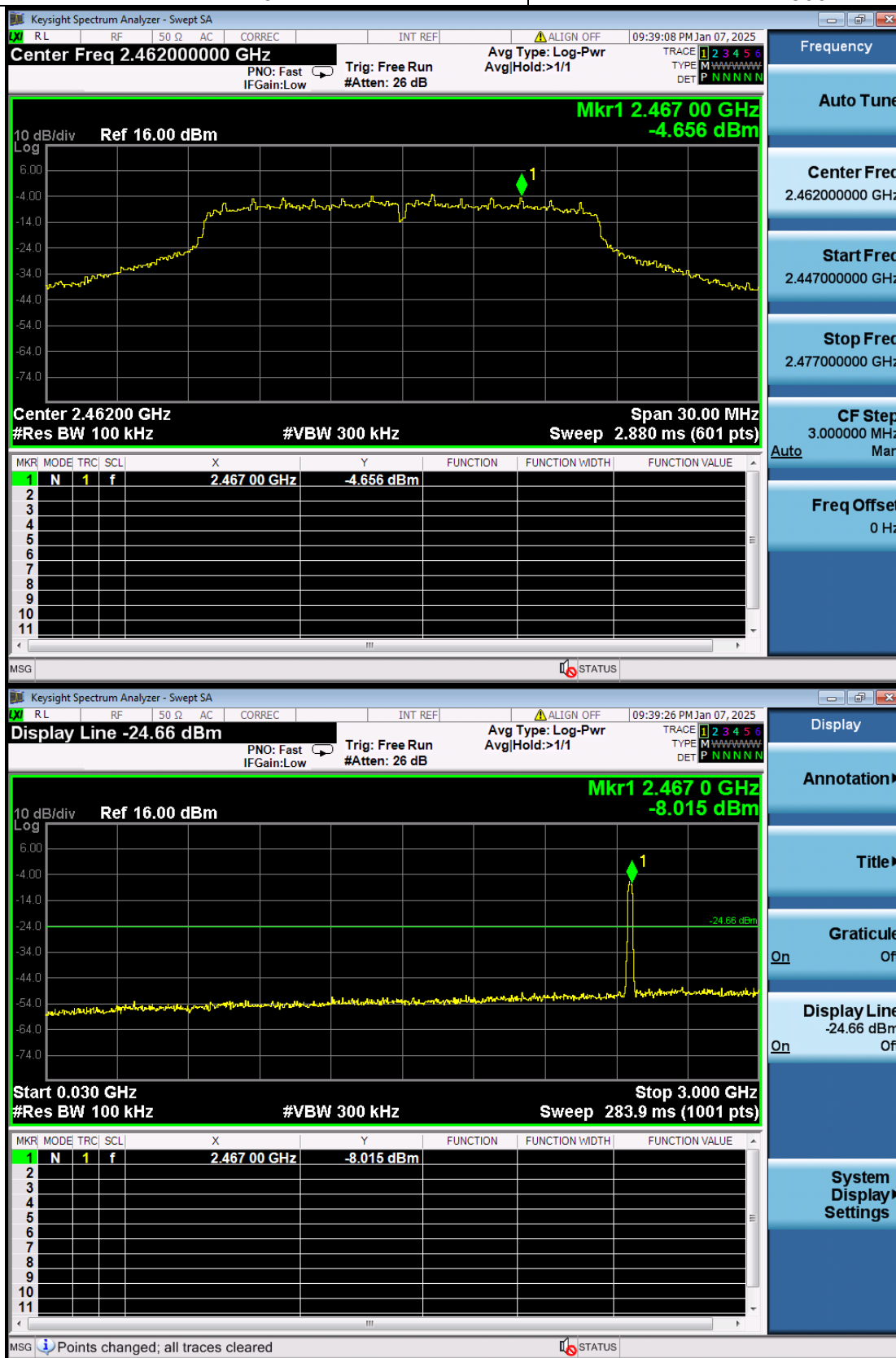


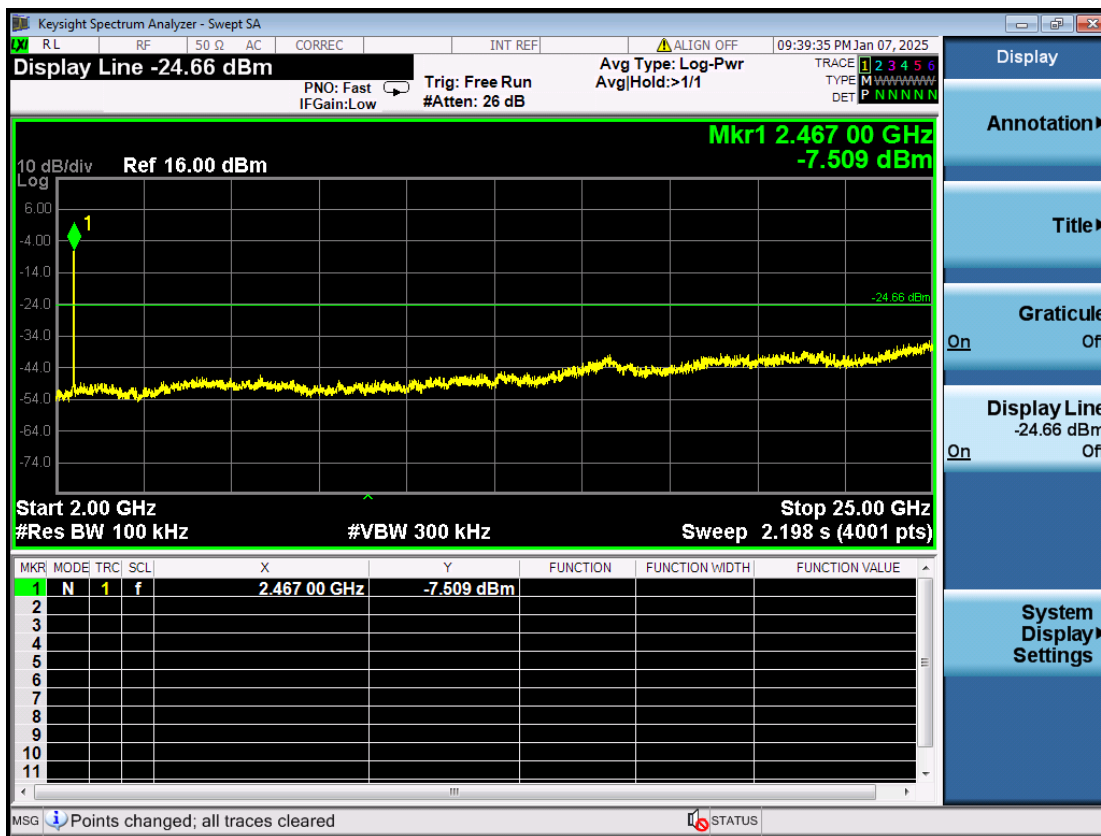




2.3 A.3-Conducted Spurious Emissions(Test Freq:2462MHz, Test Mode:6Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2467	-8.015
2467	-7.509



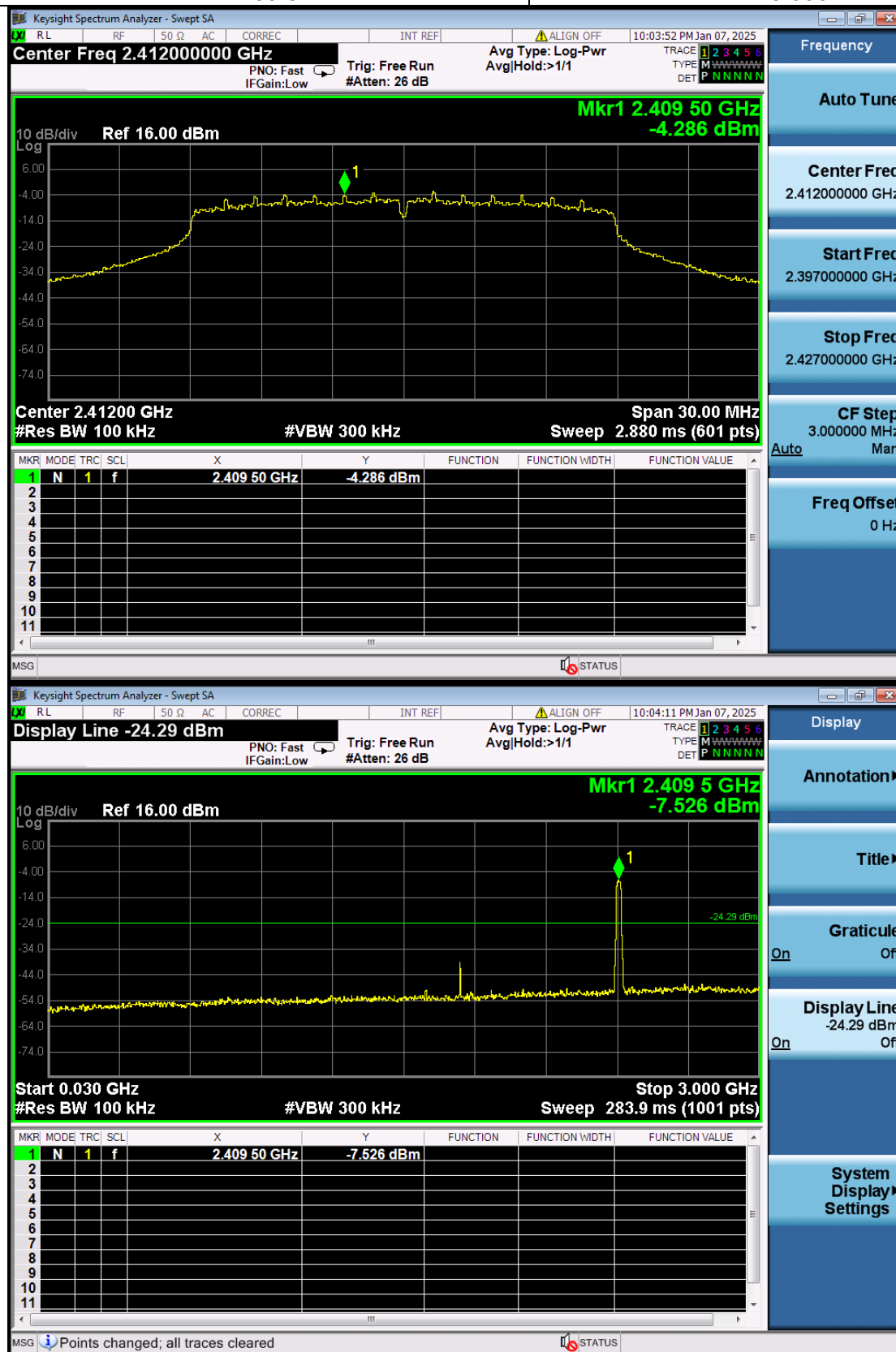


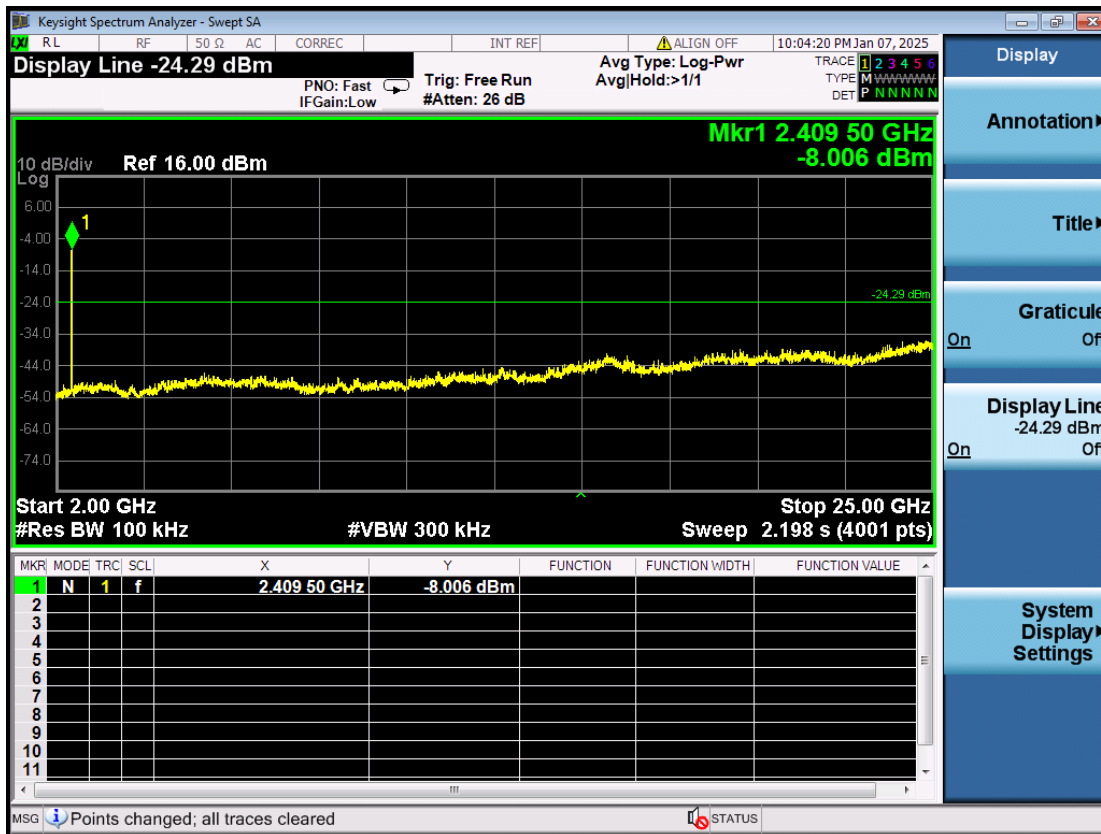


3. 802.11n_Band2.4G_BW20MHz

3.1 A.3-Conducted Spurious Emissions(Test Freq:2412MHz, Test Mode:6.5Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2409.5	-7.526
2409.5	-8.006

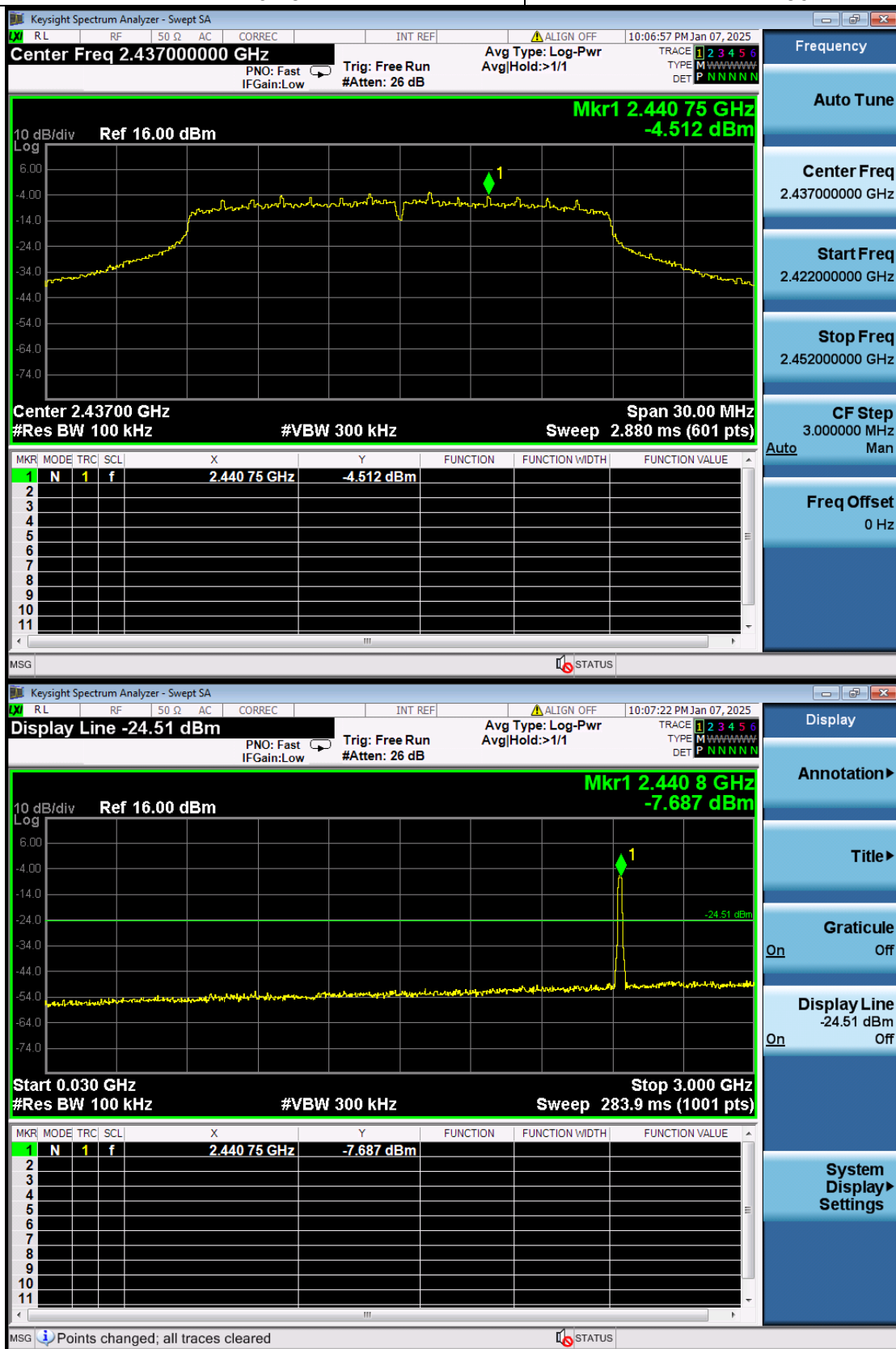


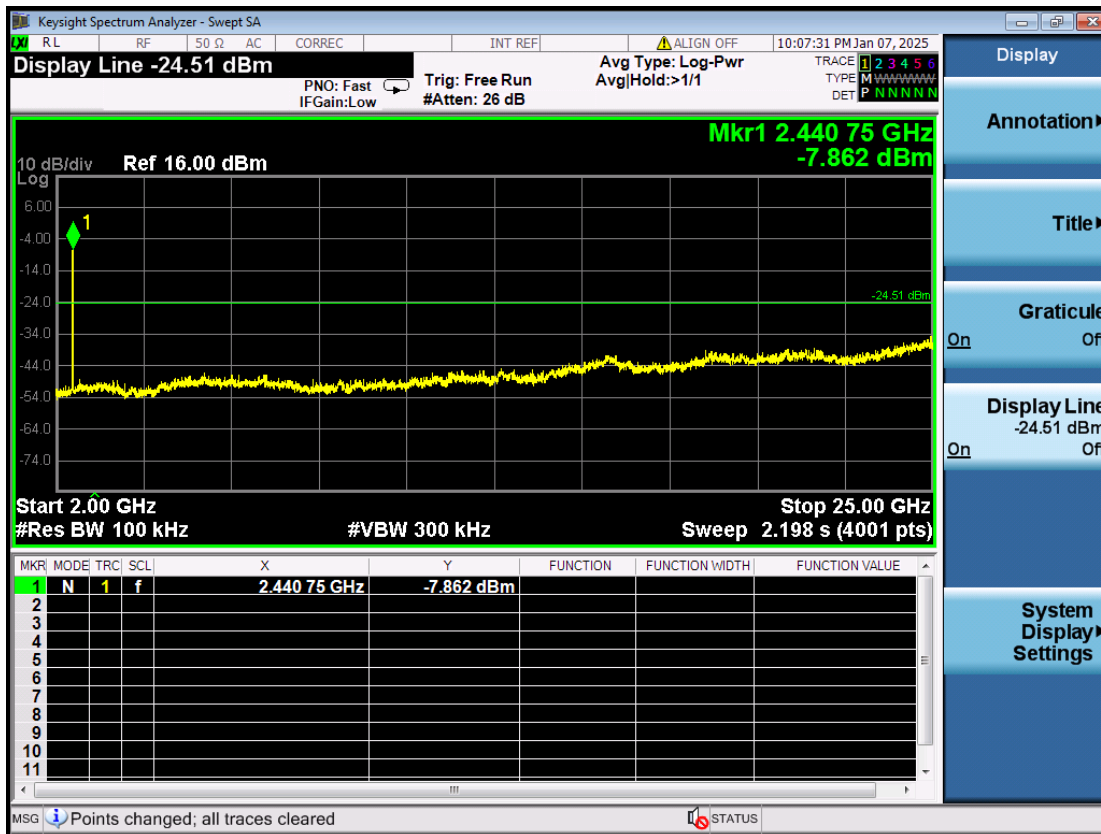




3.2 A.3-Conducted Spurious Emissions(Test Freq:2437MHz, Test Mode:6.5Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2440.75	-7.687
2440.75	-7.862

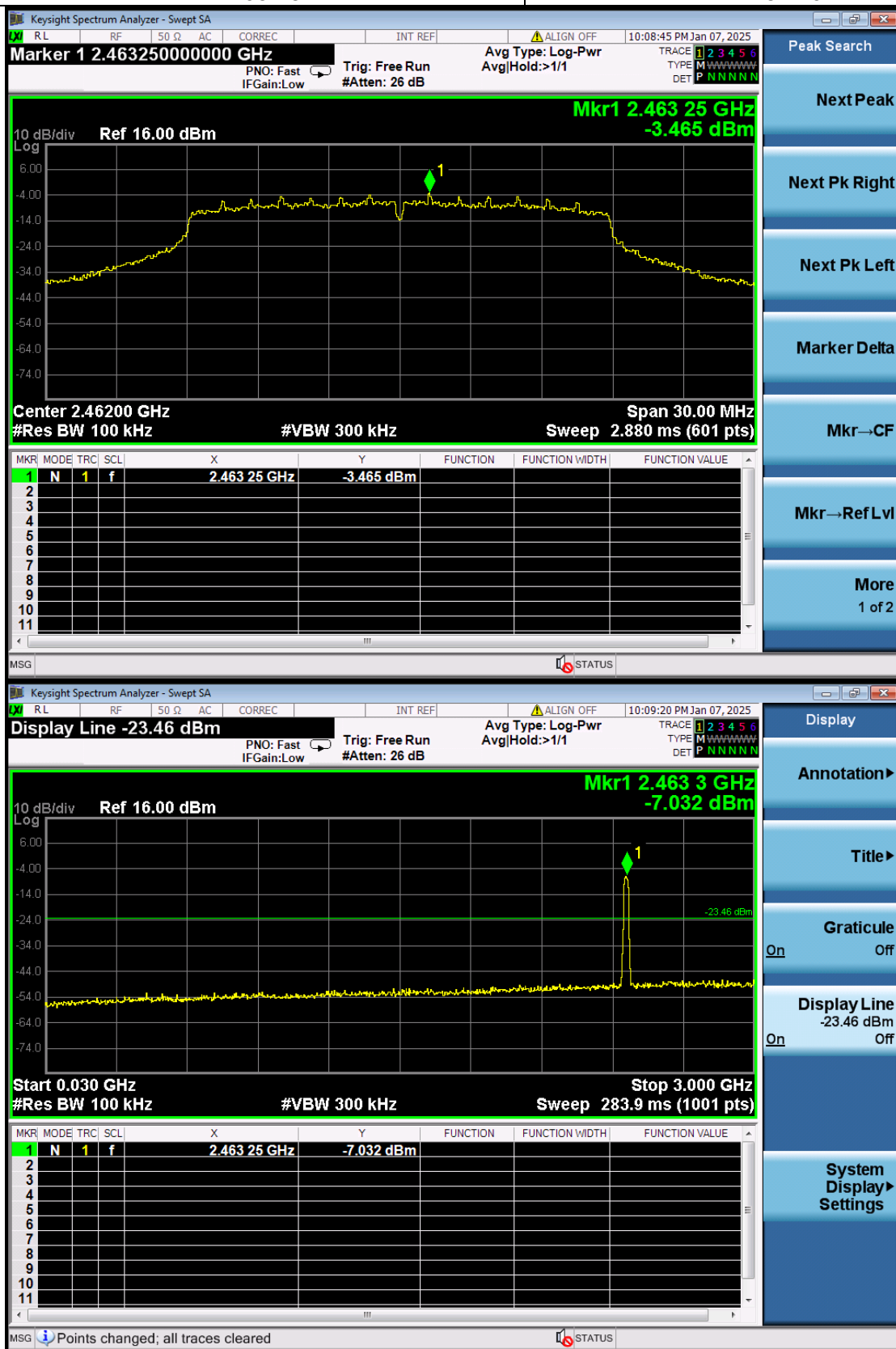


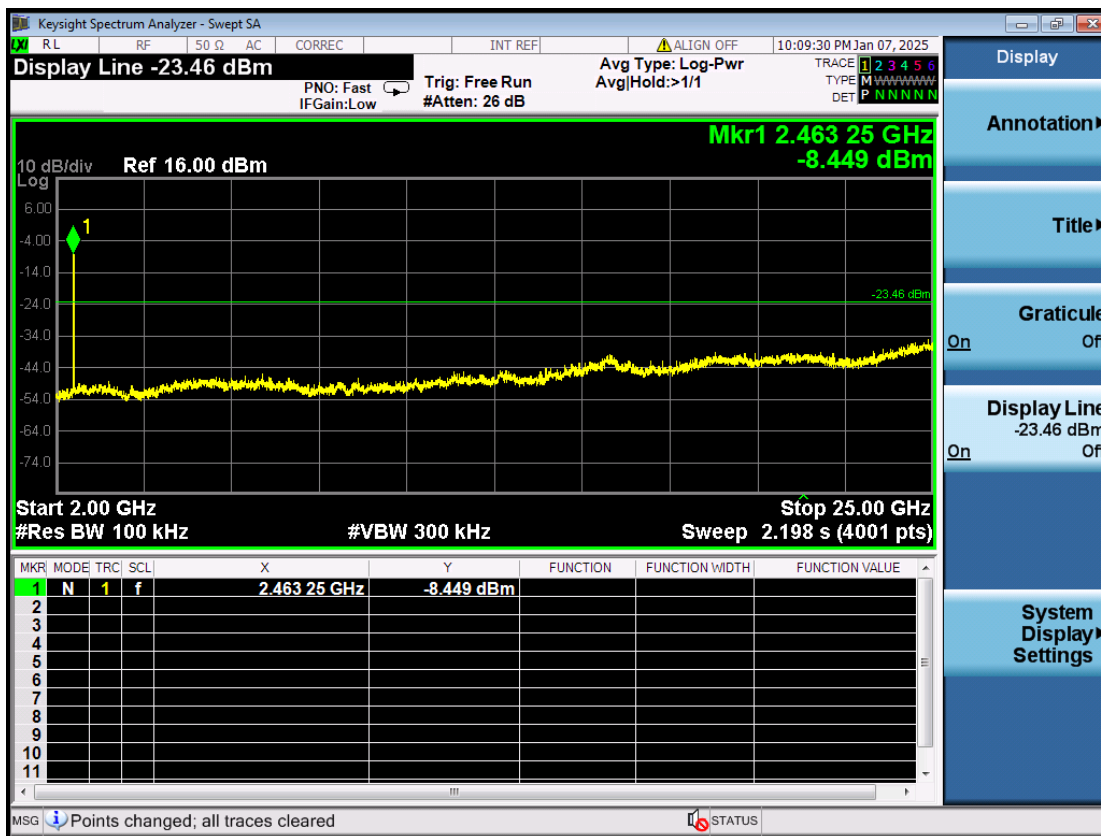




3.3 A.3-Conducted Spurious Emissions(Test Freq:2462MHz, Test Mode:6.5Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2463.25	-7.032
2463.25	-8.449



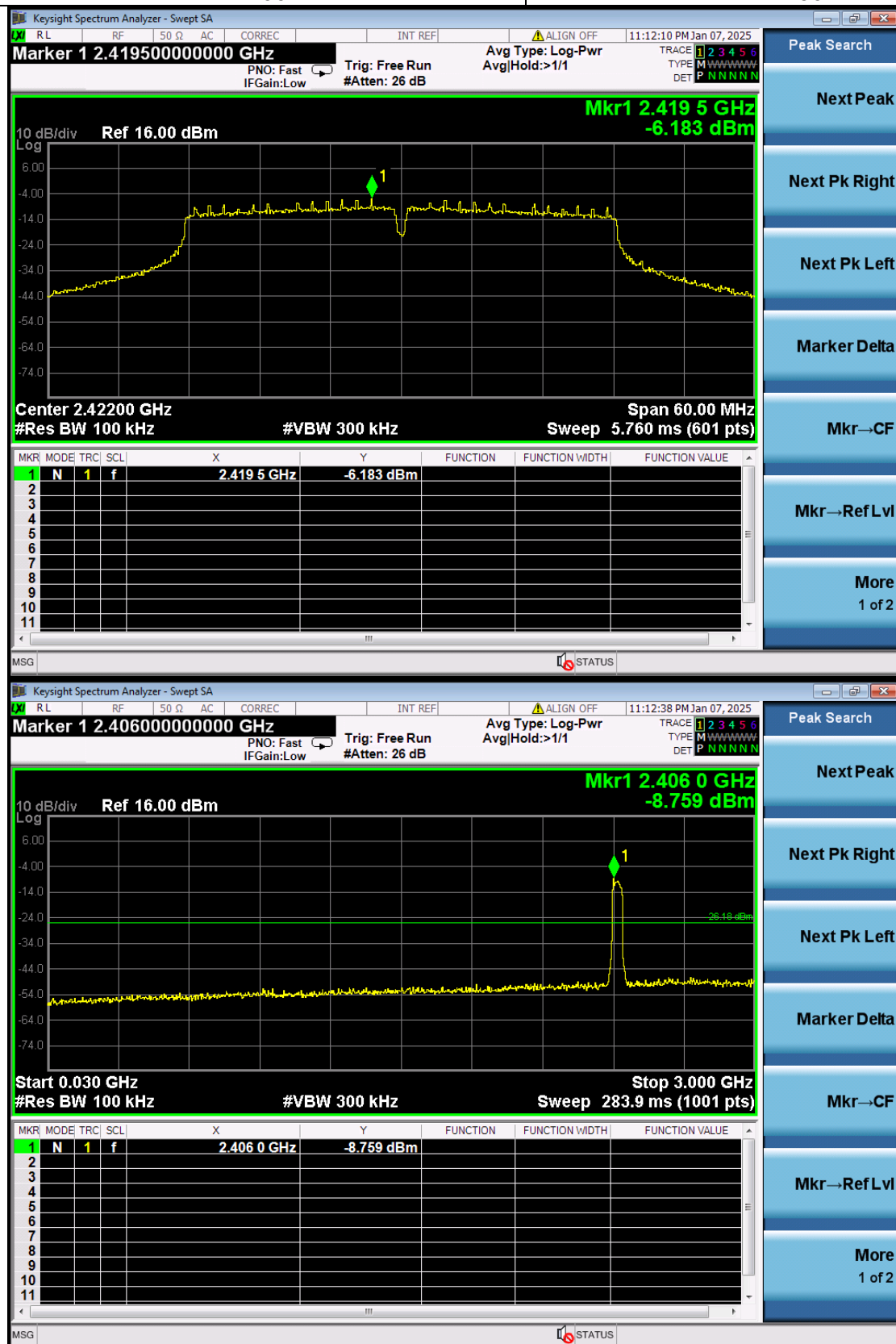


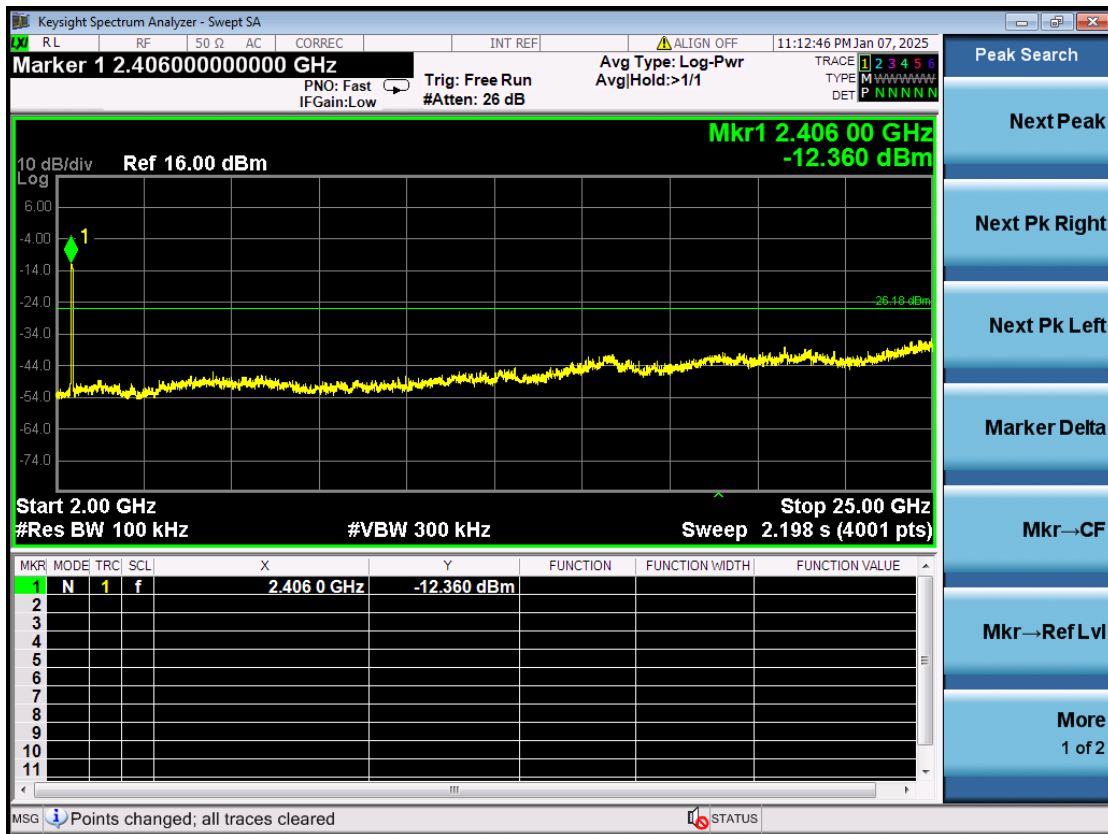


4. 802.11n_Band2.4G_BW40MHz

4.1 A.3-Conducted Spurious Emissions(Test Freq:2422MHz, Test Mode:13.5Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2406	-8.759
2406	-12.36

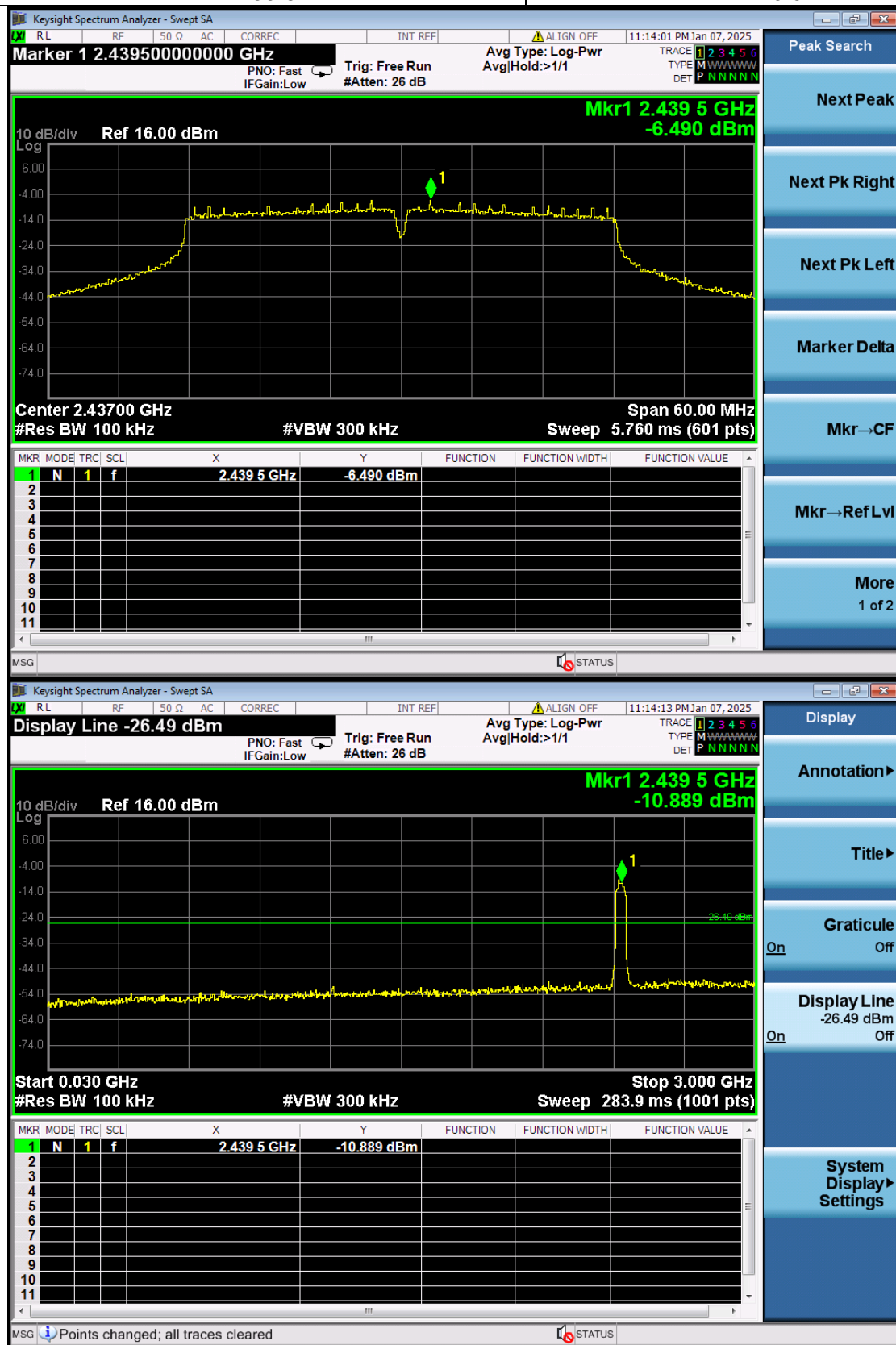


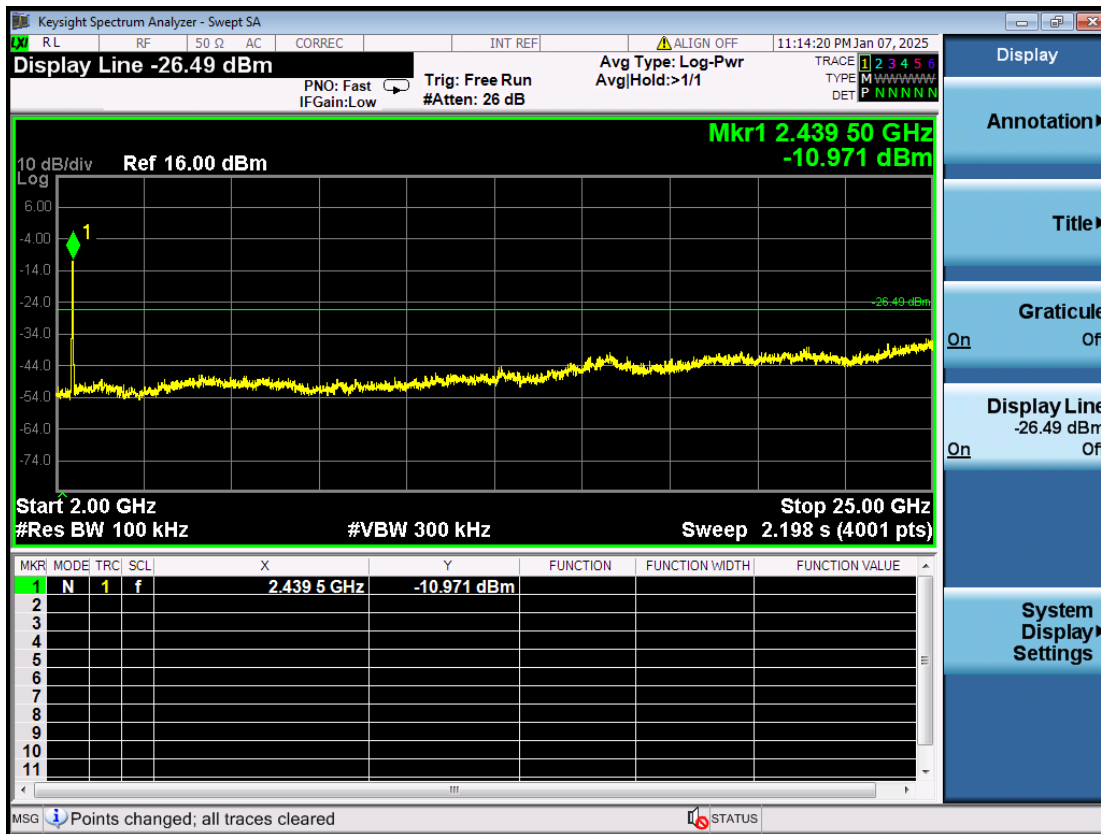




4.2 A.3-Conducted Spurious Emissions(Test Freq:2437MHz, Test Mode:13.5Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2439.5	-10.889
2439.5	-10.971

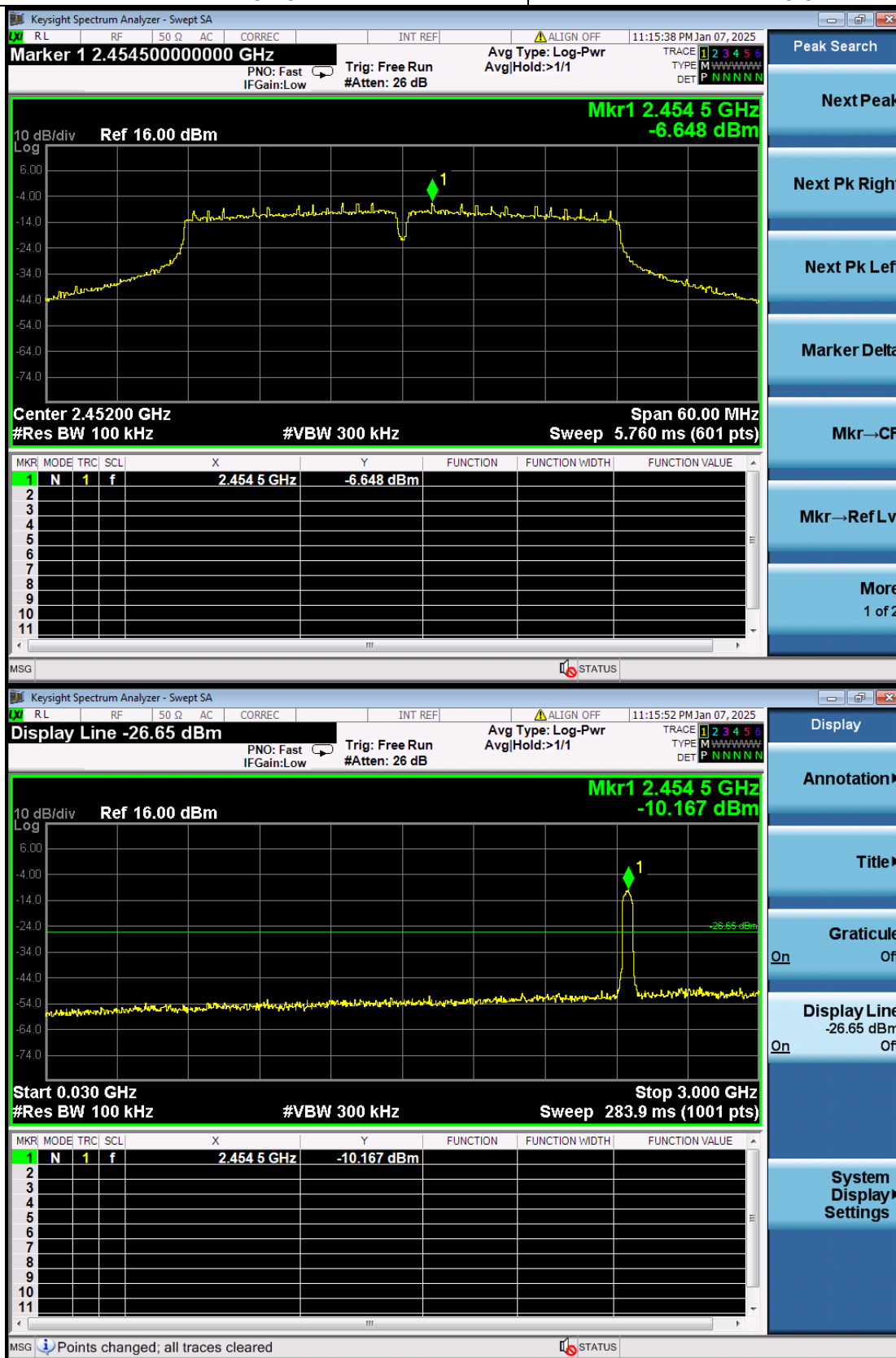


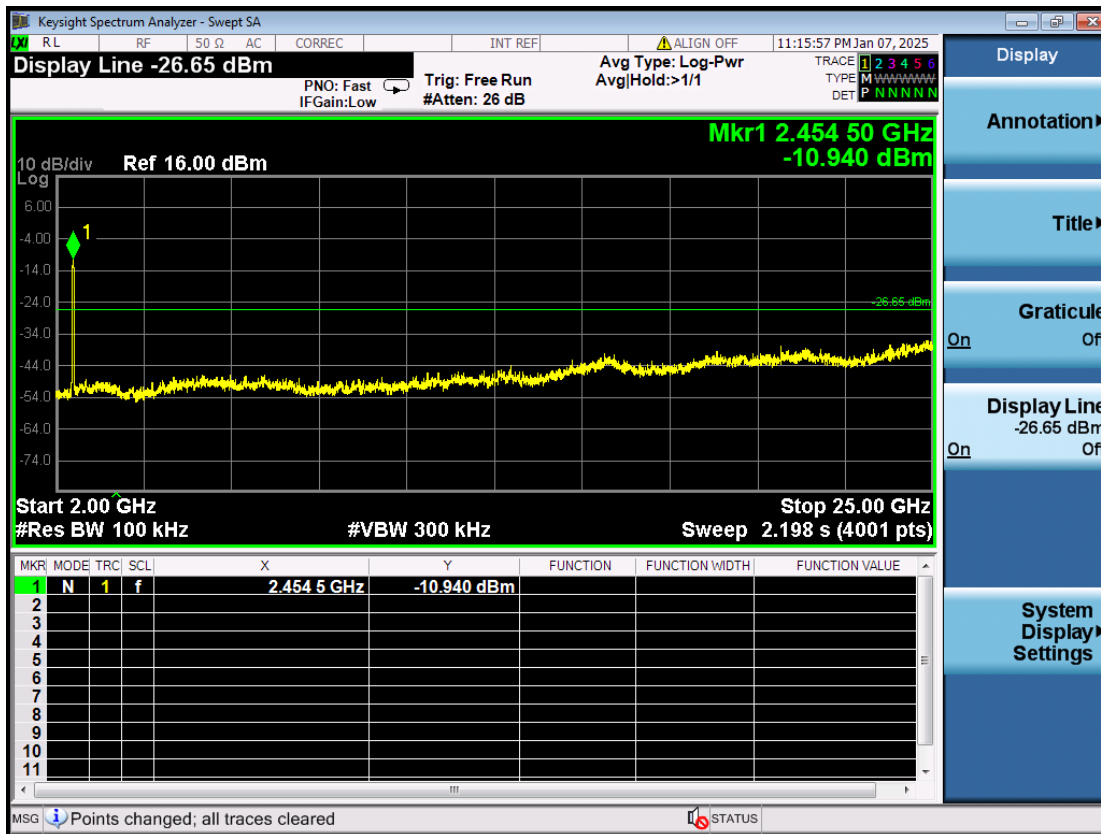




4.3 A.3-Conducted Spurious Emissions(Test Freq:2452MHz, Test Mode:13.5Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2454.5	-10.167
2454.5	-10.94



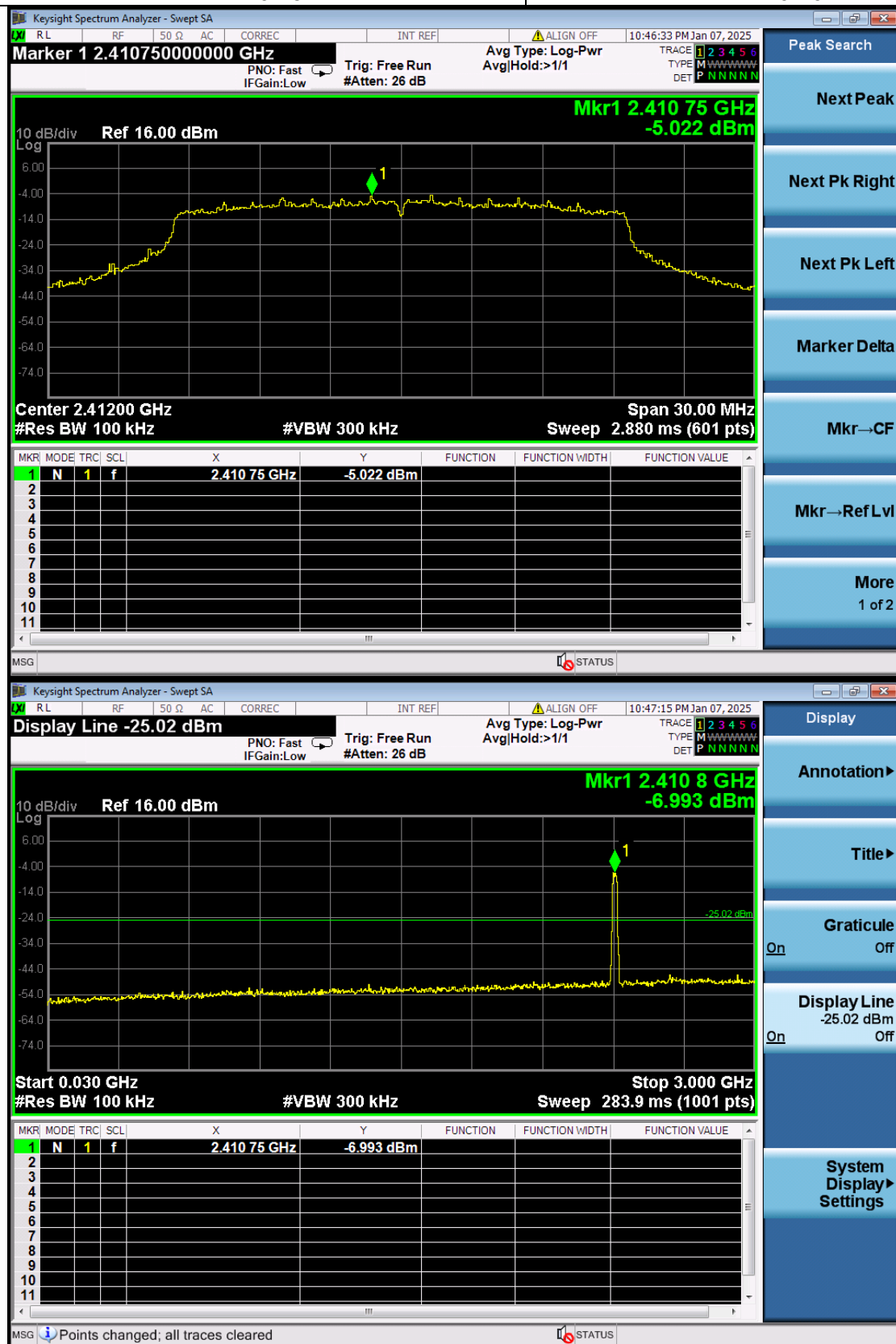


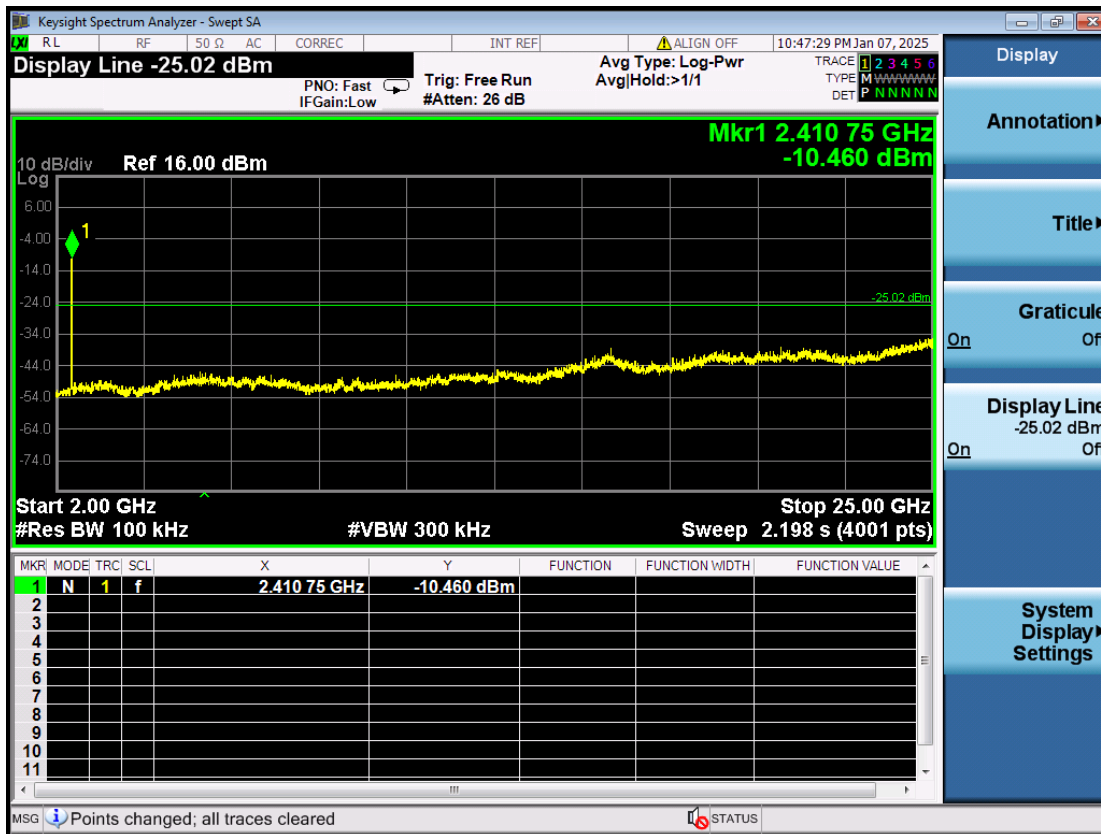


5. 802.11ax_Band2.4G_BW20MHz

5.1 A.3-Conducted Spurious Emissions(Test Freq:2412MHz, Test Mode:4Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2410.75	-6.993
2410.75	-10.46

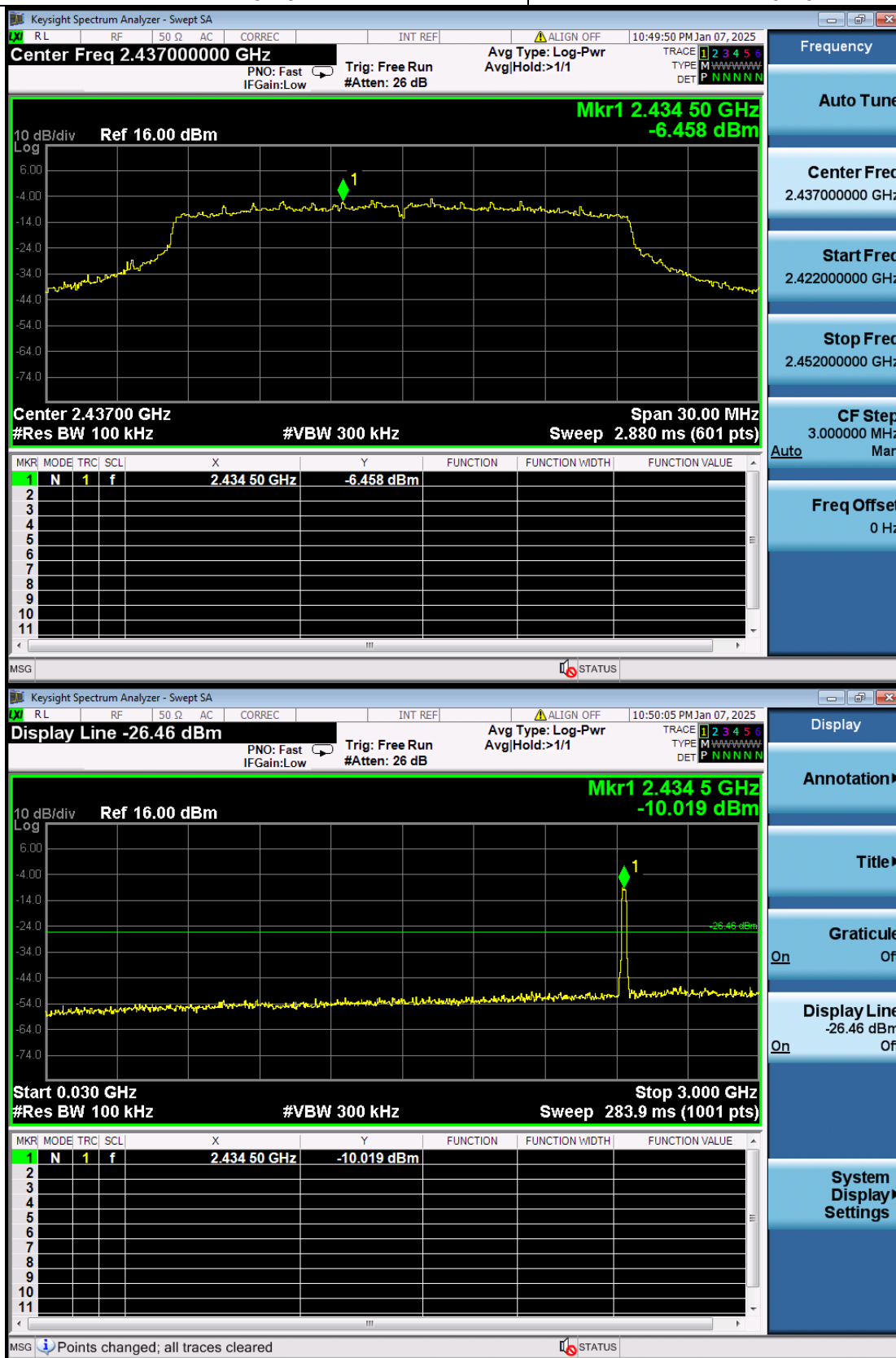


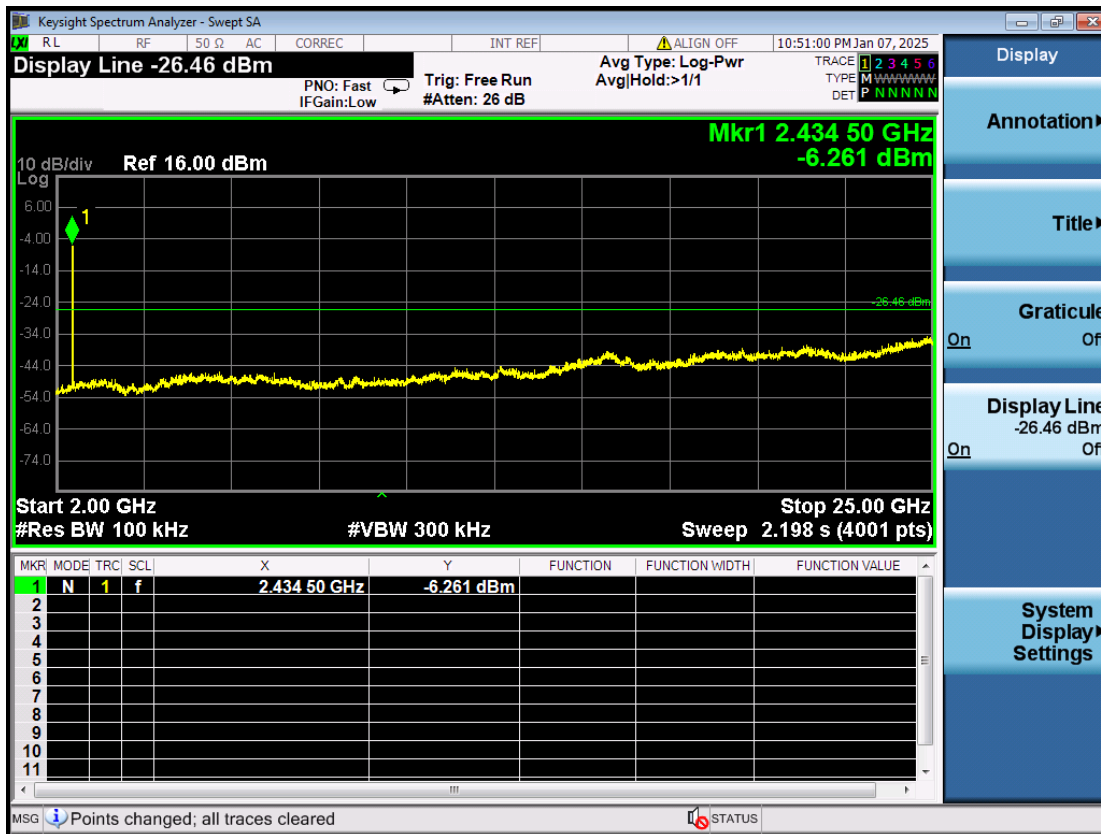




5.2 A.3-Conducted Spurious Emissions(Test Freq:2437MHz, Test Mode:4Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2434.5	-10.019
2434.5	-6.261

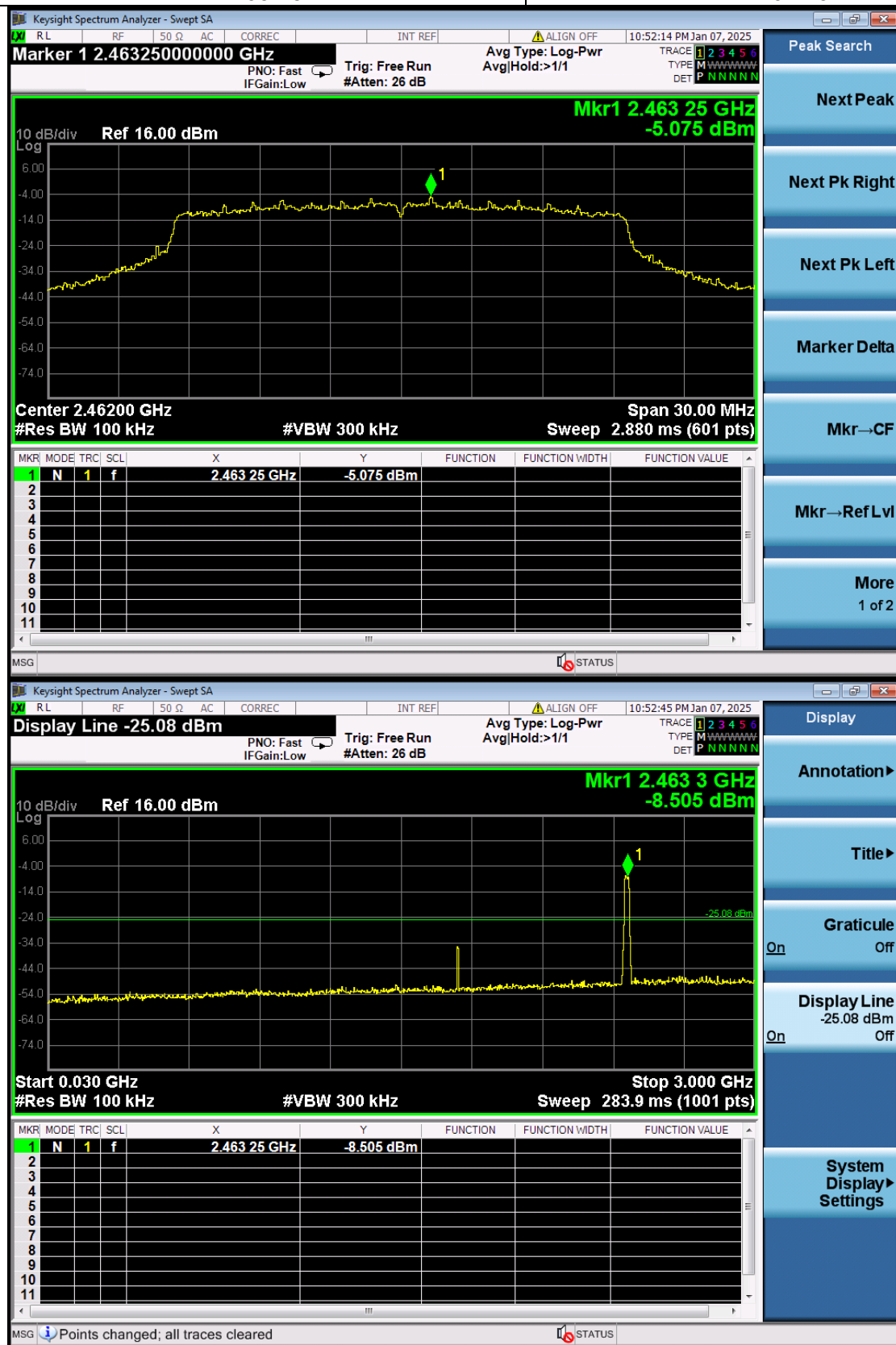


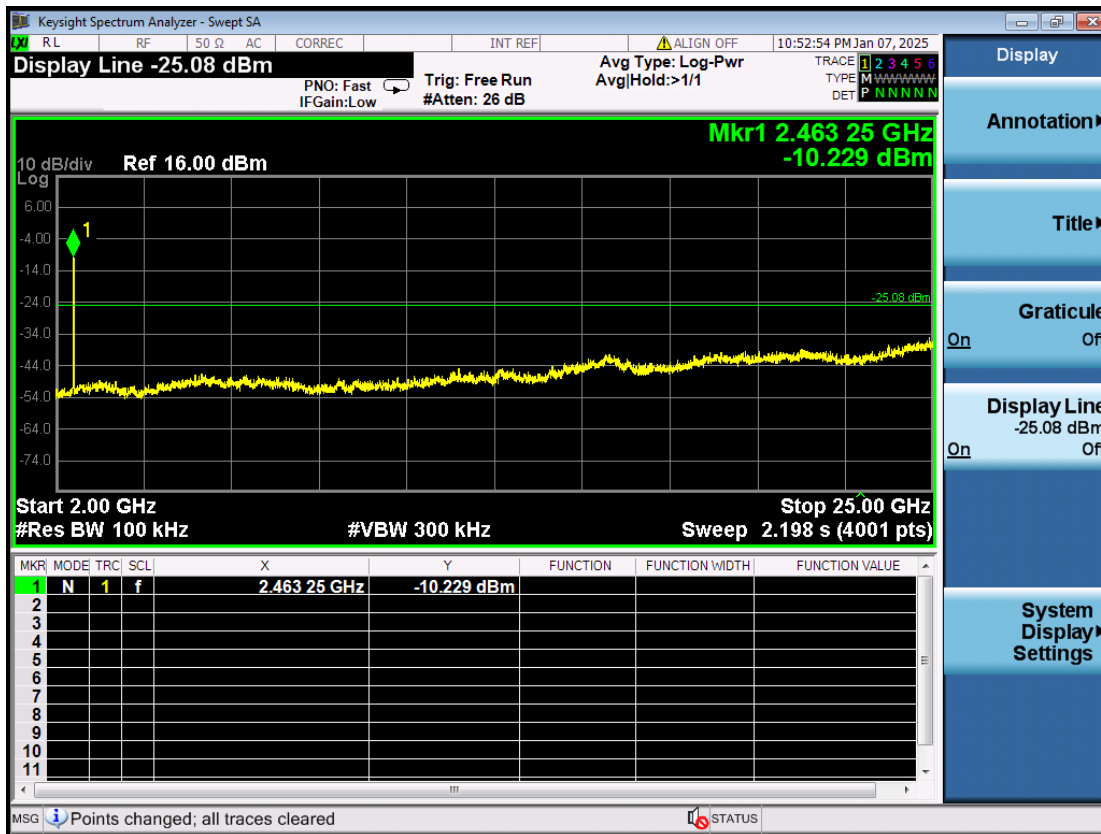




5.3 A.3-Conducted Spurious Emissions(Test Freq:2462MHz, Test Mode:4Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2463.25	-8.505
2463.25	-10.229



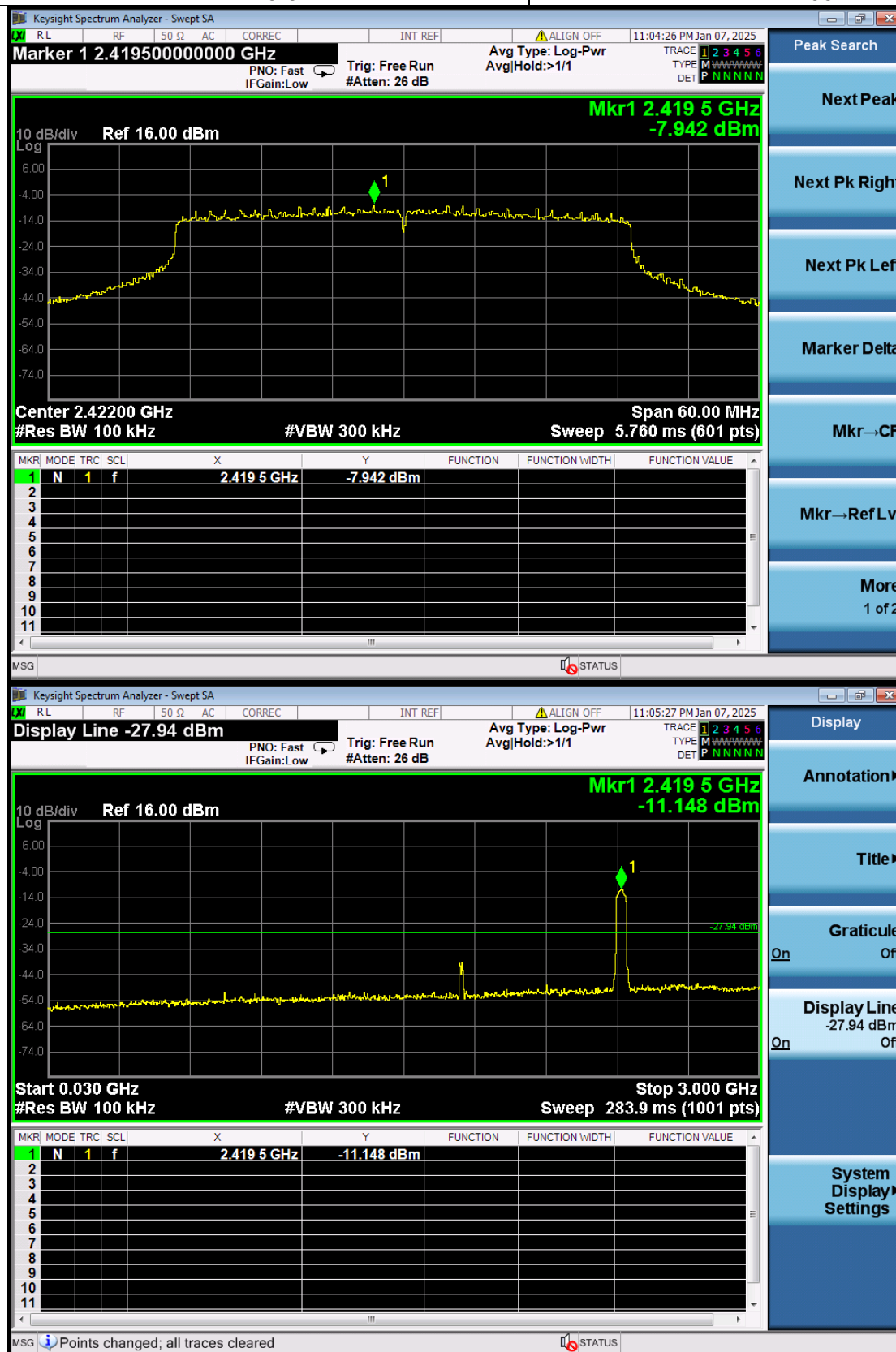


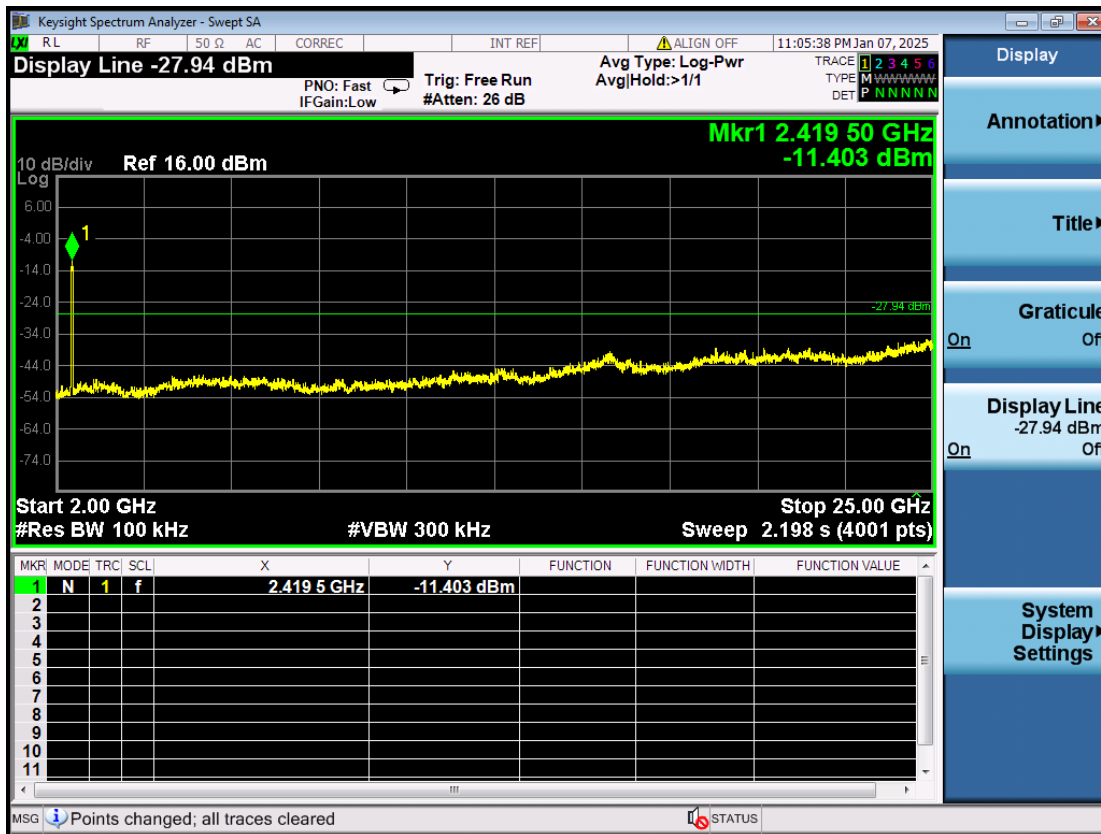


6. 802.11ax_Band2.4G_BW40MHz

6.1 A.3-Conducted Spurious Emissions(Test Freq:2422MHz, Test Mode:8Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2419.5	-11.148
2419.5	-11.403

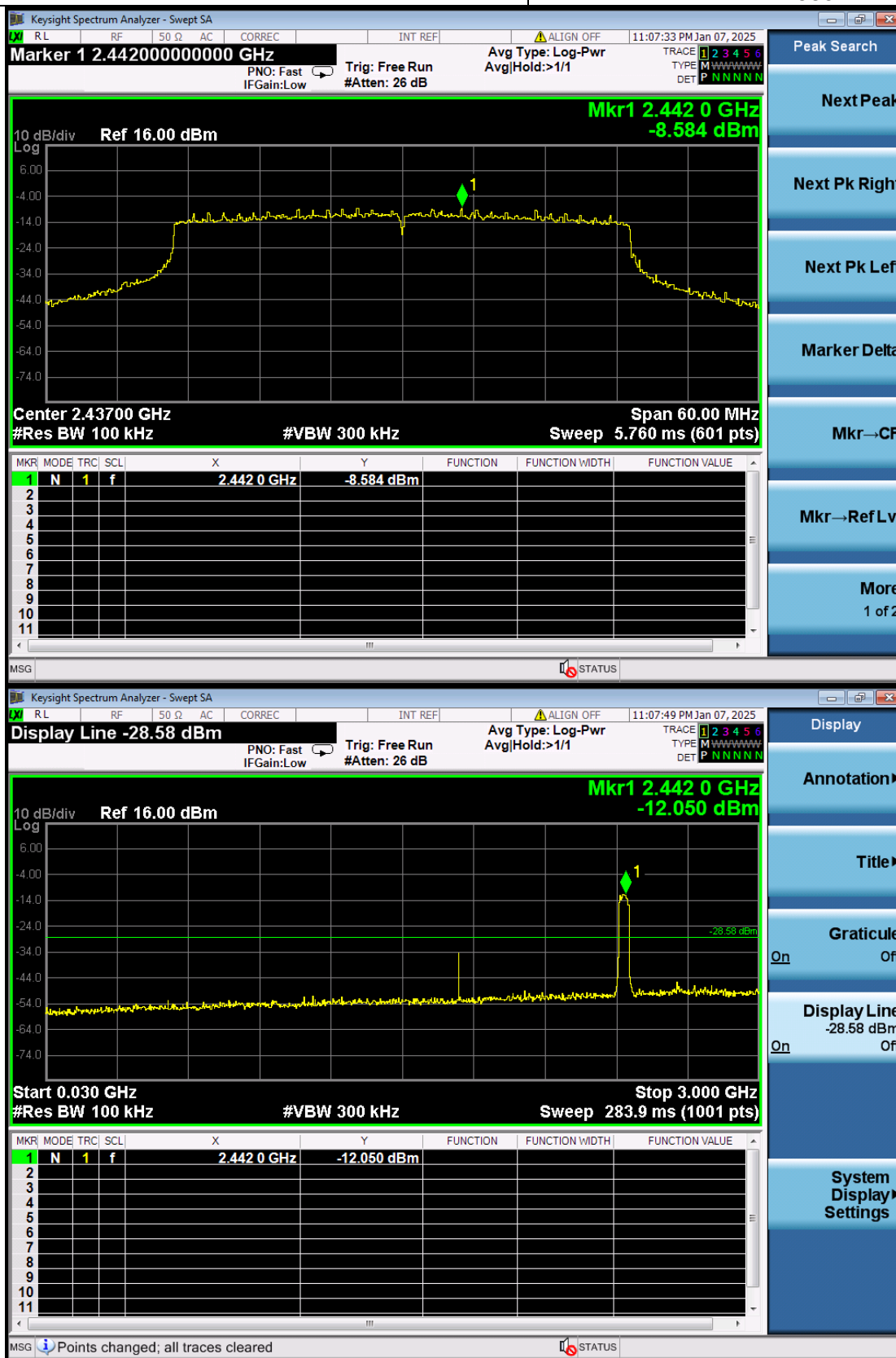


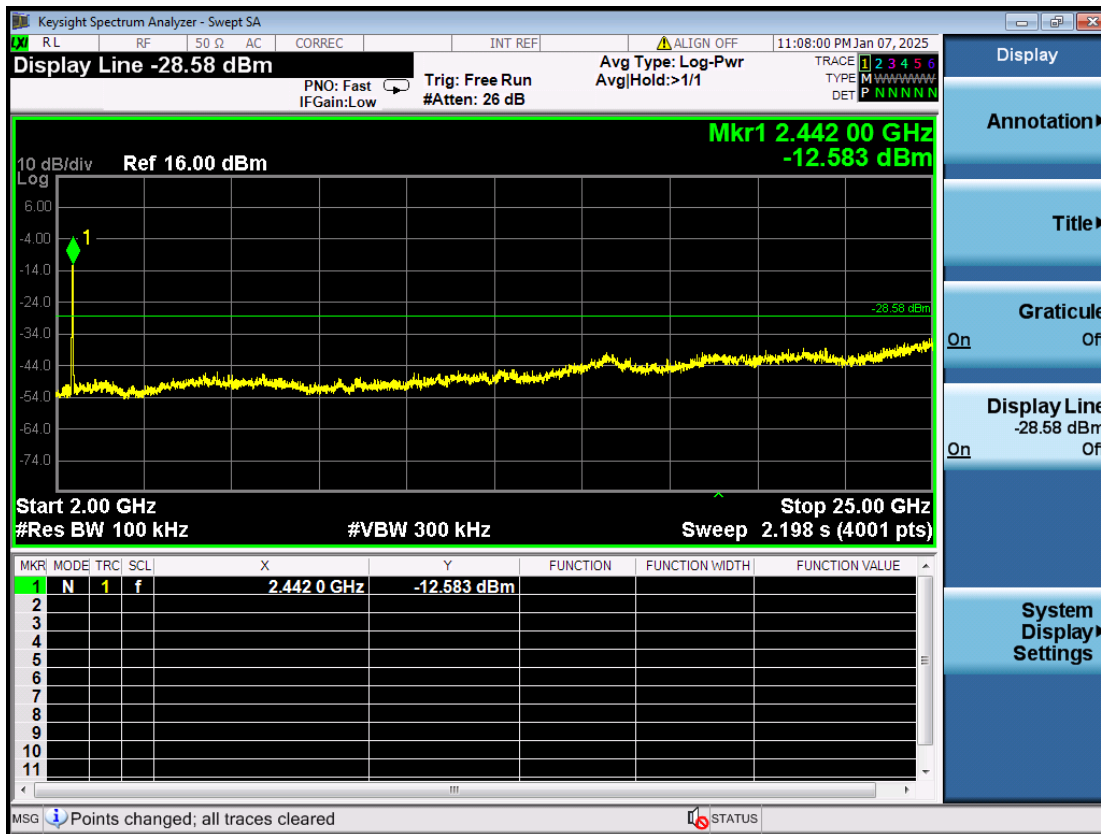




6.2 A.3-Conducted Spurious Emissions(Test Freq:2437MHz, Test Mode:8Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2442	-12.05
2442	-12.583

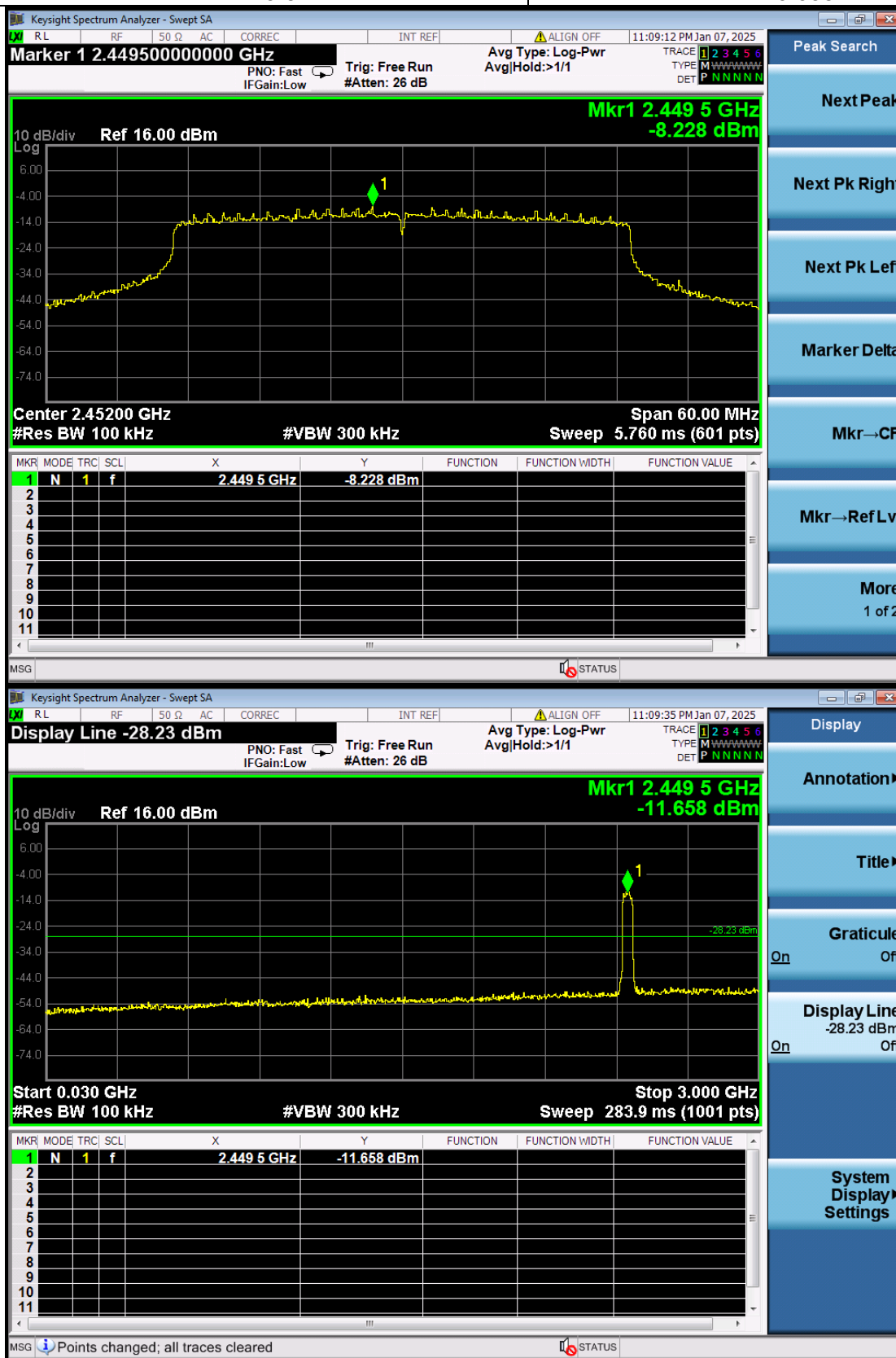


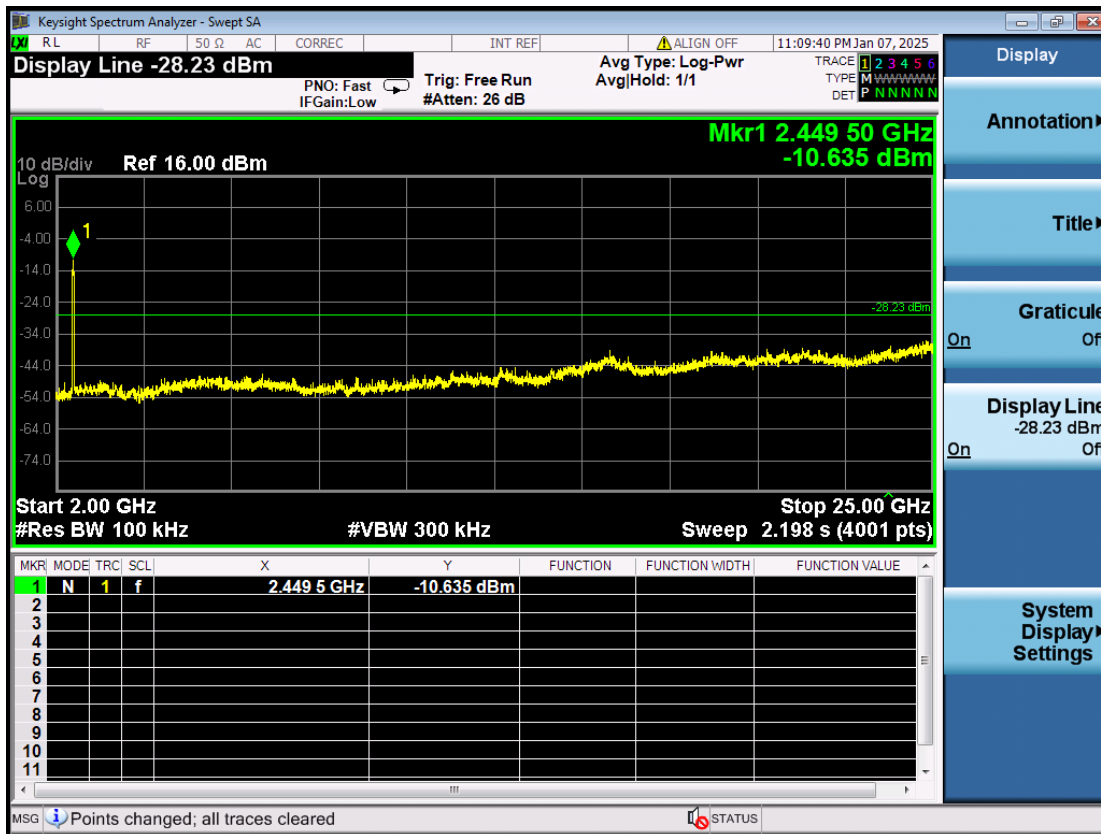




6.3 A.3-Conducted Spurious Emissions(Test Freq:2452MHz, Test Mode:8Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2449.5	-11.658
2449.5	-10.635



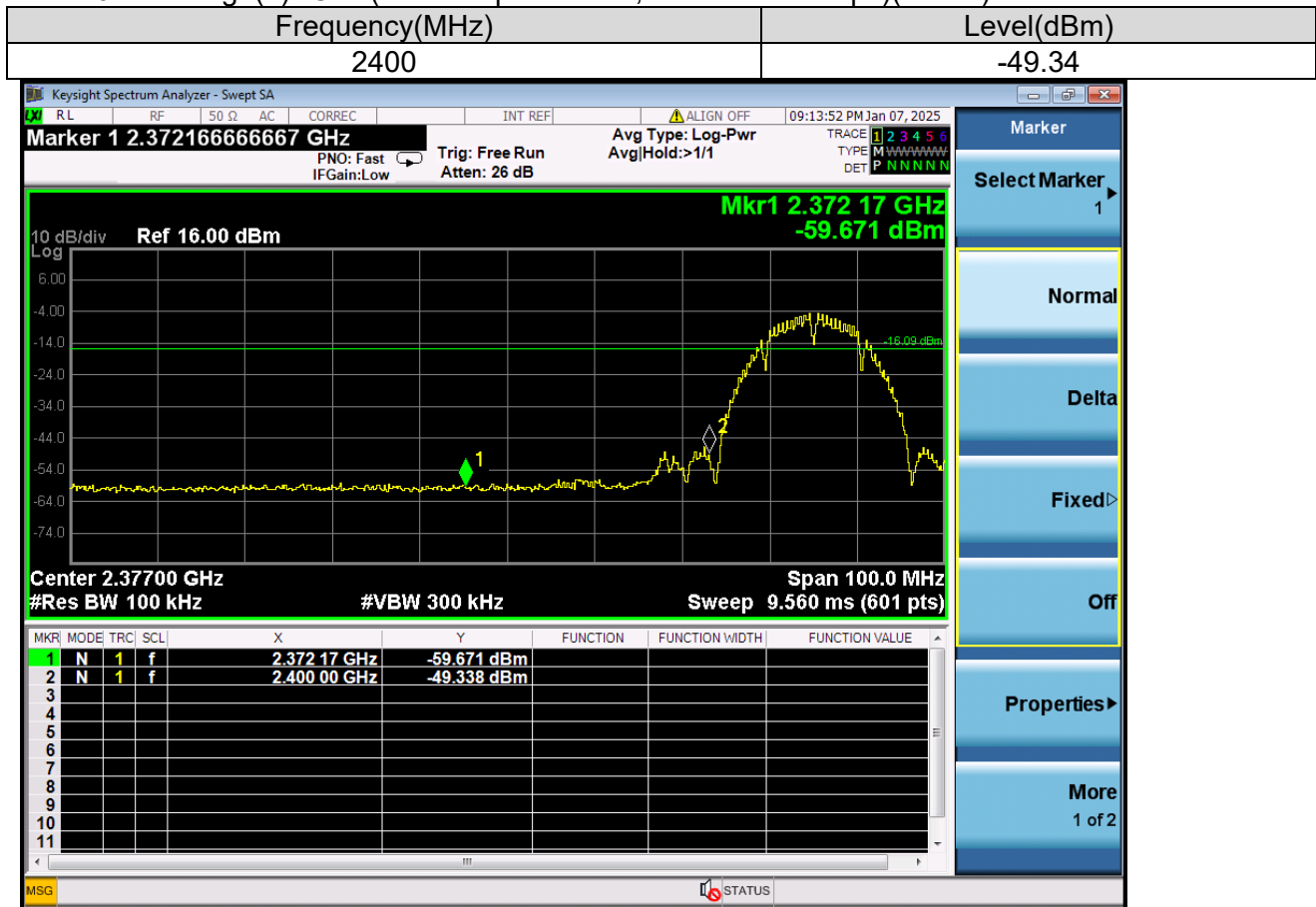




Annex A. Bandedge(L)--CSE

1. 802.11b

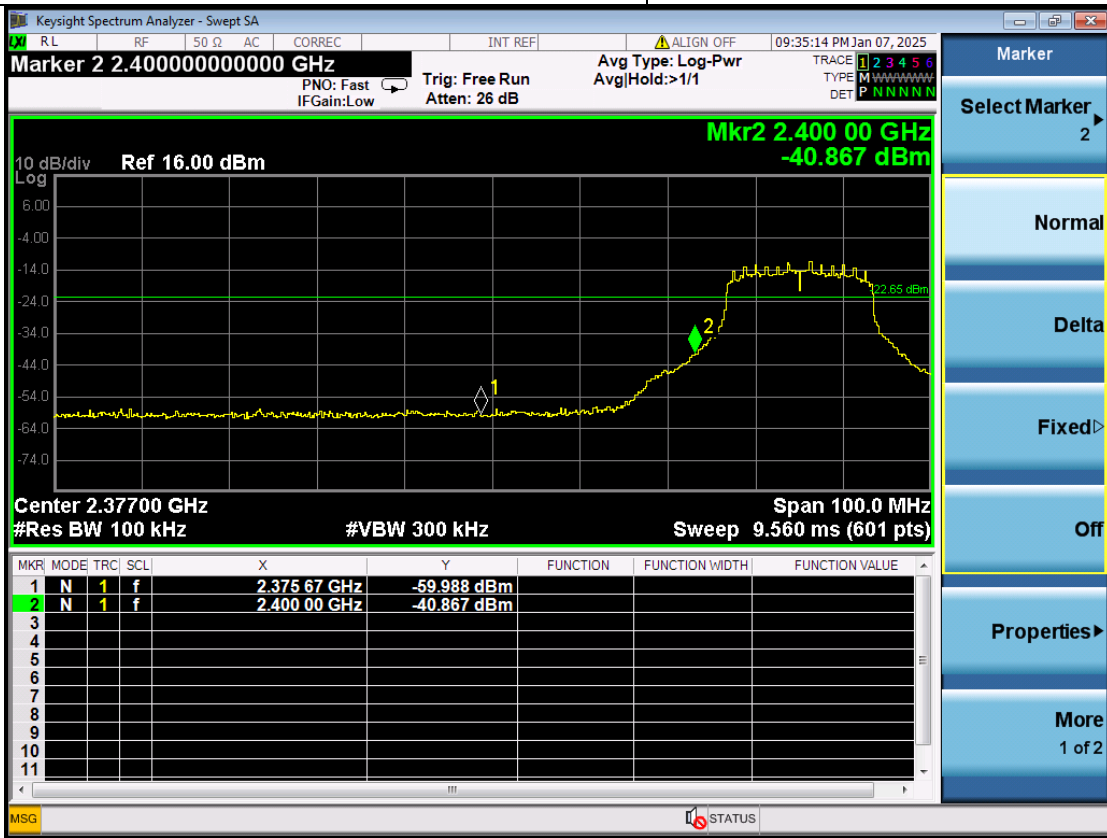
1.1 A.6-Bandedge(L)--CSE(Test Freq:2412MHz, Test Mode:1Mbps)(NTNV)





2. 802.11g
2.1 A.6-Bandedge(L)--CSE(Test Freq:2412MHz, Test Mode:6Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2400	-40.87

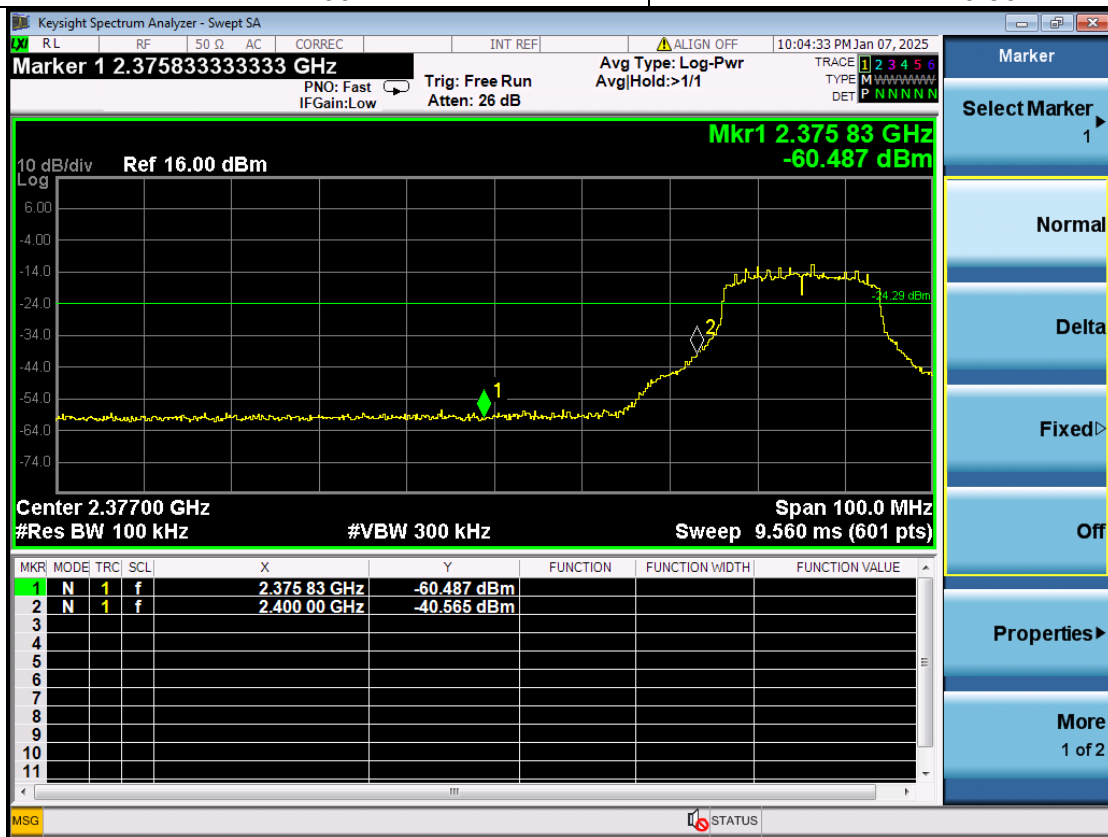




3. 802.11n_Band2.4G_BW20MHz

3.1 A.6-Bandedge(L)--CSE(Test Freq:2412MHz, Test Mode:6.5Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2400	-40.56

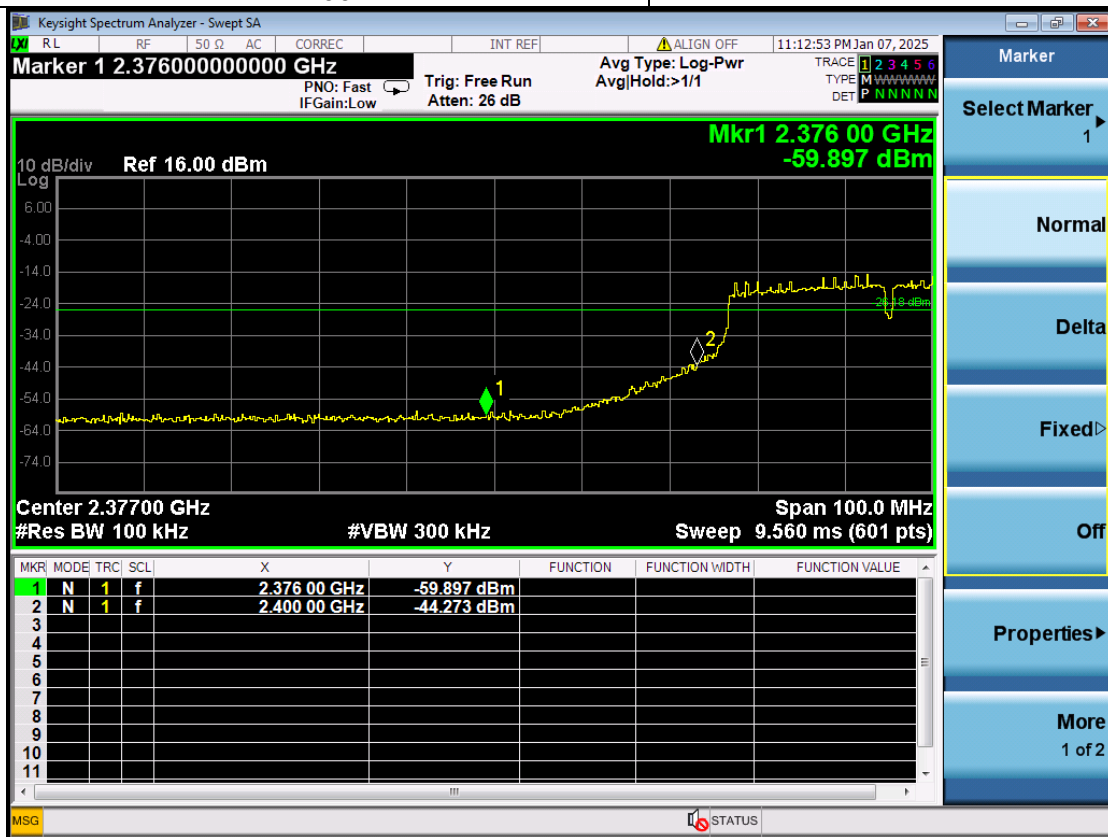




4. 802.11n_Band2.4G_BW40MHz

4.1 A.6-Bandedge(L)--CSE(Test Freq:2422MHz, Test Mode:13.5Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2400	-44.27

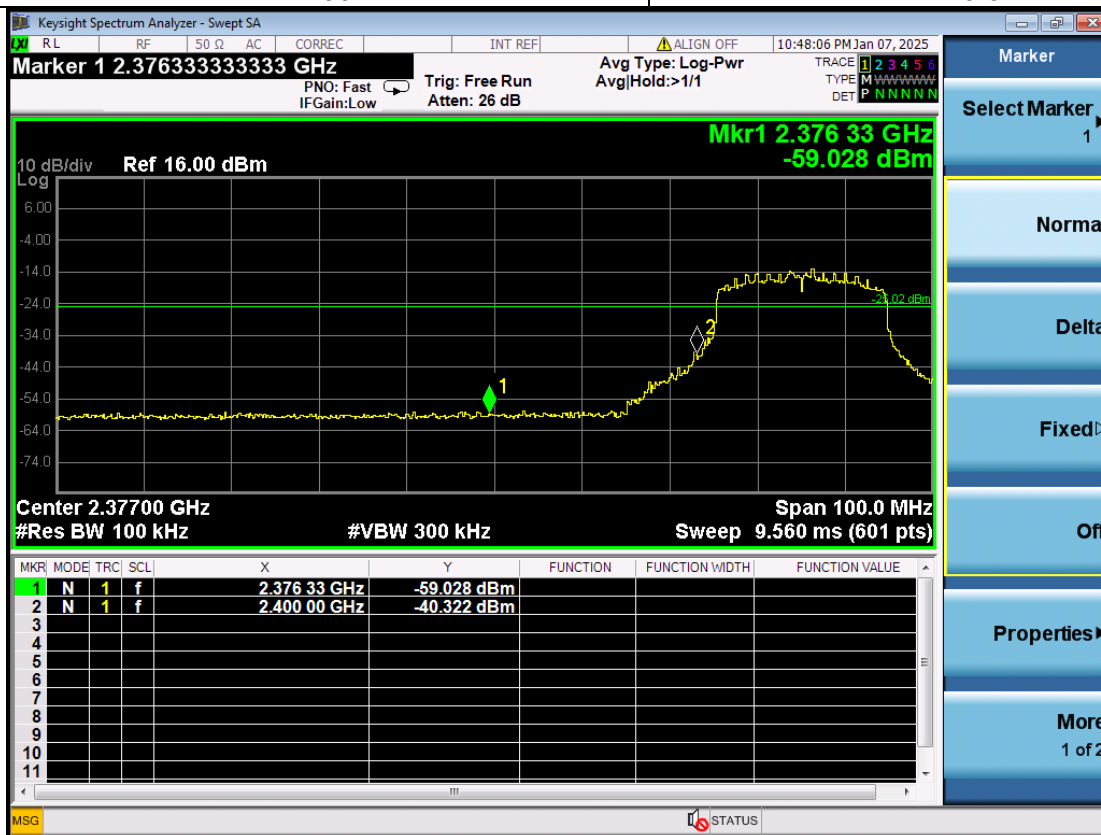




5. 802.11ax_Band2.4G_BW20MHz

5.1 A.6-Bandedge(L)--CSE(Test Freq:2412MHz, Test Mode:4Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2400	-40.32

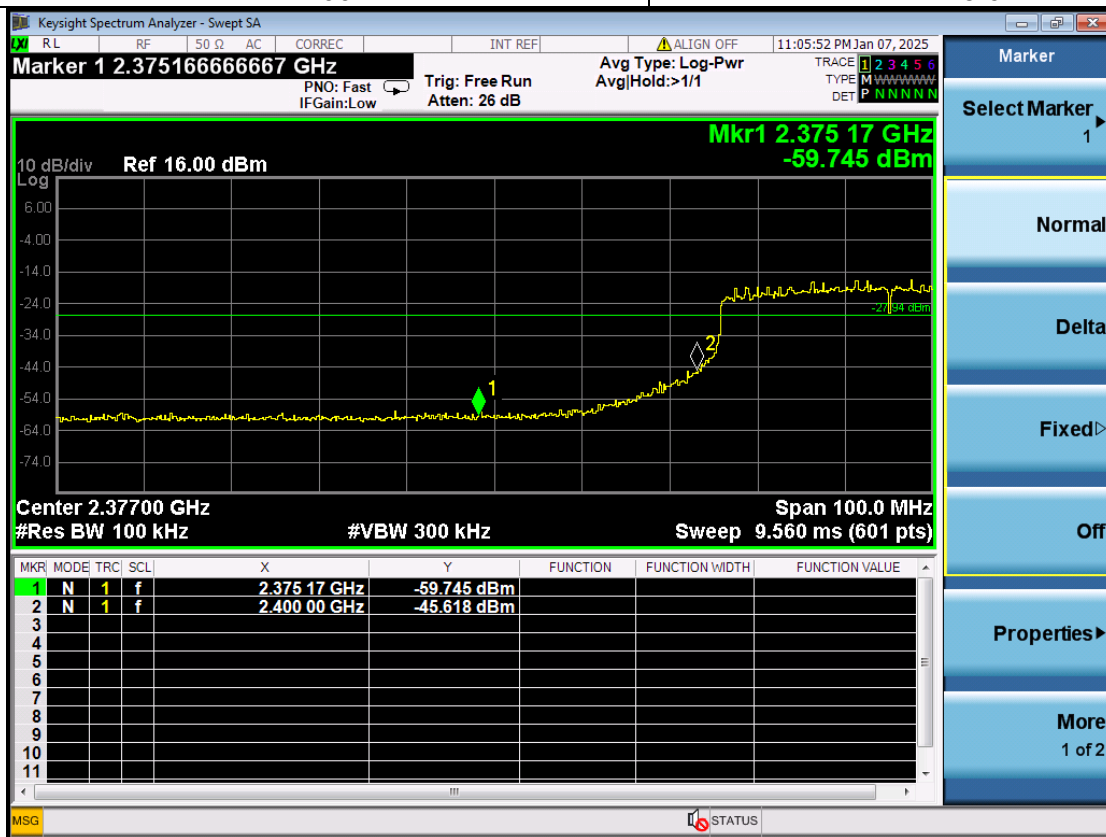




6. 802.11ax_Band2.4G_BW40MHz

6.1 A.6-Bandedge(L)--CSE(Test Freq:2422MHz, Test Mode:8Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2400	-45.62

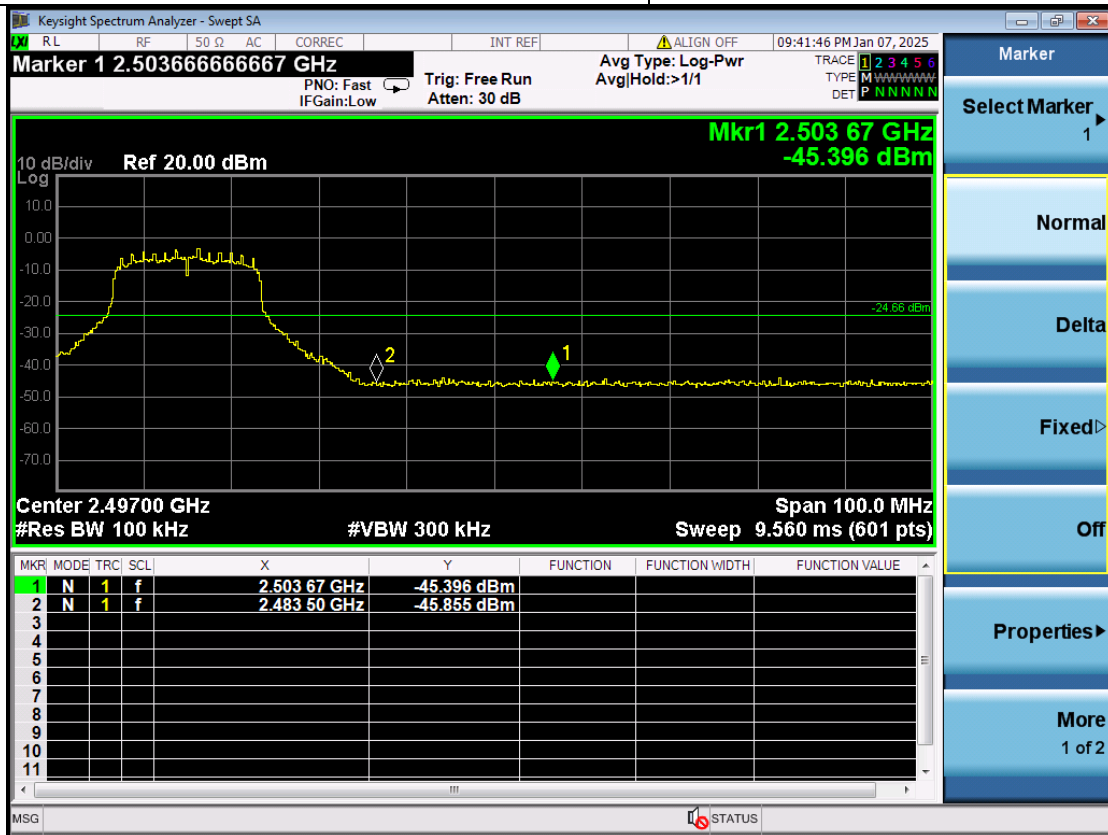




2. 802.11g

2.1 A.6-Bandedge(H)--CSE(Test Freq:2462MHz, Test Mode:6Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2483.5	-45.86

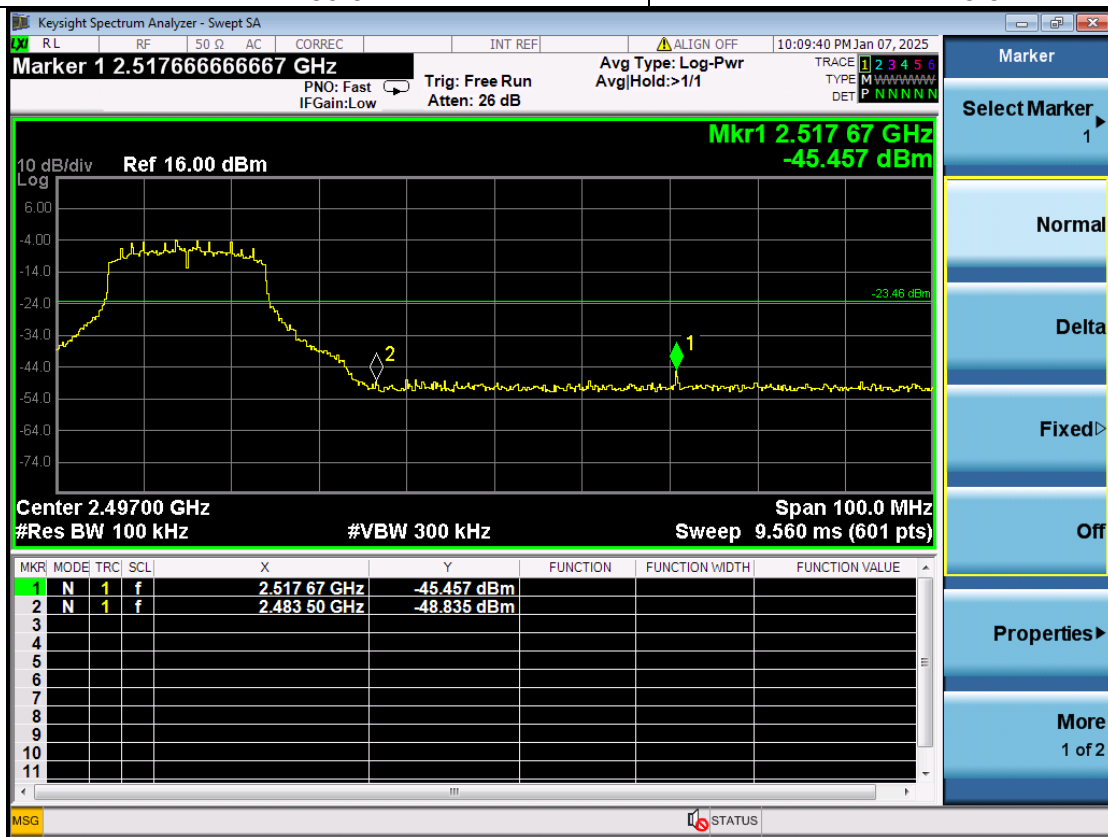




3. 802.11n_Band2.4G_BW20MHz

3.1 A.6-Bandedge(H)--CSE(Test Freq:2462MHz, Test Mode:6.5Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2483.5	-48.84

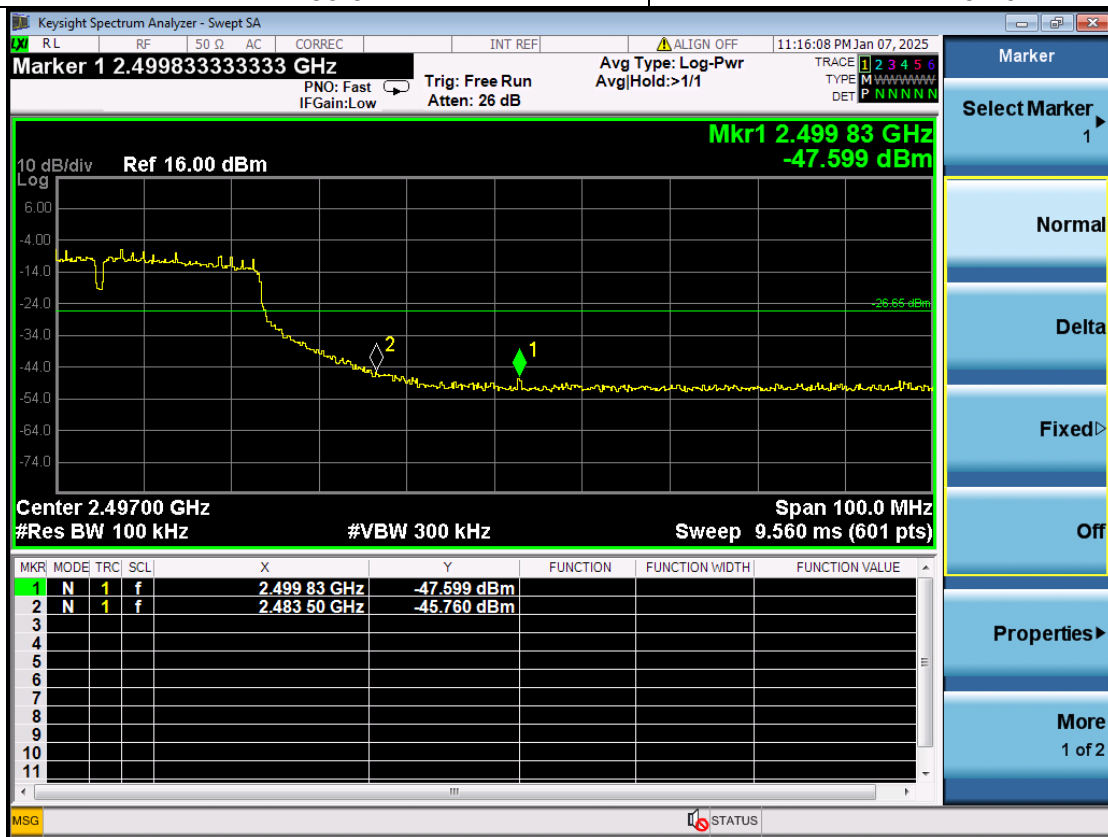




4. 802.11n_Band2.4G_BW40MHz

4.1 A.6-Bandedge(H)--CSE(Test Freq:2452MHz, Test Mode:13.5Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2483.5	-45.76

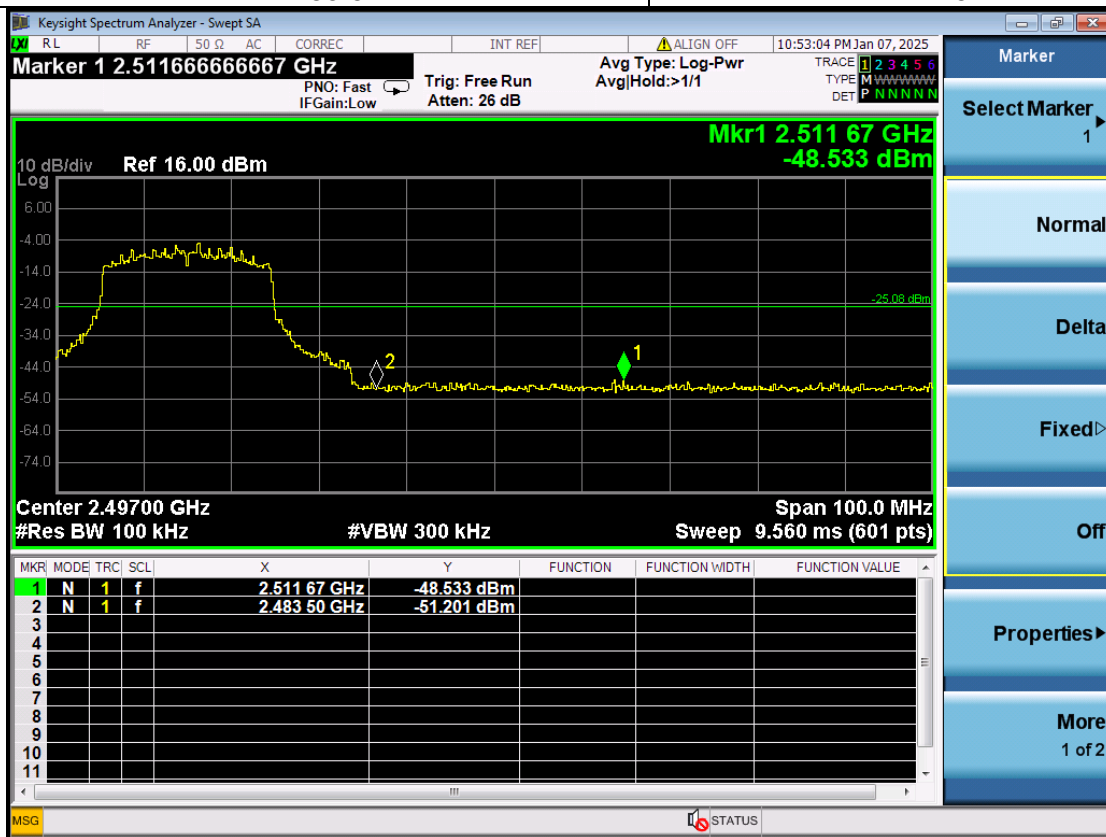




5. 802.11ax_Band2.4G_BW20MHz

5.1 A.6-Bandedge(H)--CSE(Test Freq:2462MHz, Test Mode:4Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2483.5	-51.2

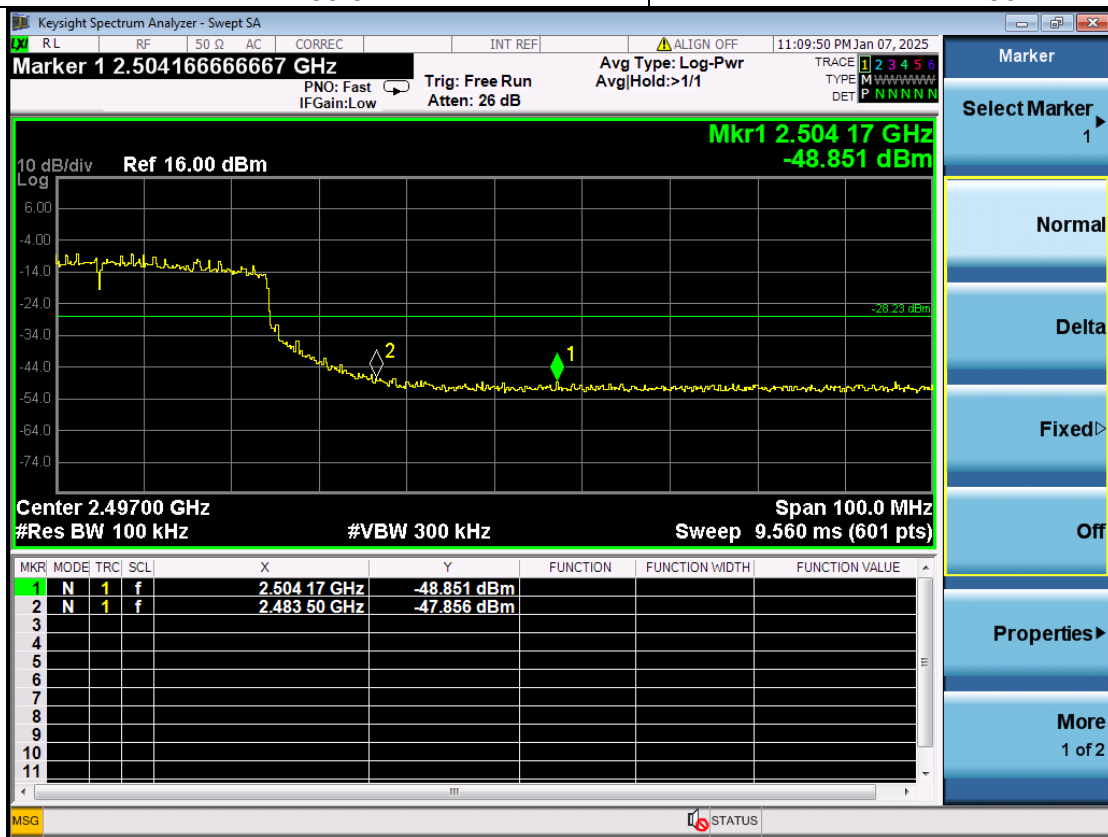




6. 802.11ax_Band2.4G_BW40MHz

6.1 A.6-Bandedge(H)--CSE(Test Freq:2452MHz, Test Mode:8Mbps)(NTNV)

Frequency(MHz)	Level(dBm)
2483.5	-47.86





Annex A. Power Spectral Density (PSD)-PEAK

1. 802.11b

1.1 A.7-Power Spectral Density (PSD)-PEAK(Test Freq:2412MHz, Test Mode:1Mbps)(NTNV)

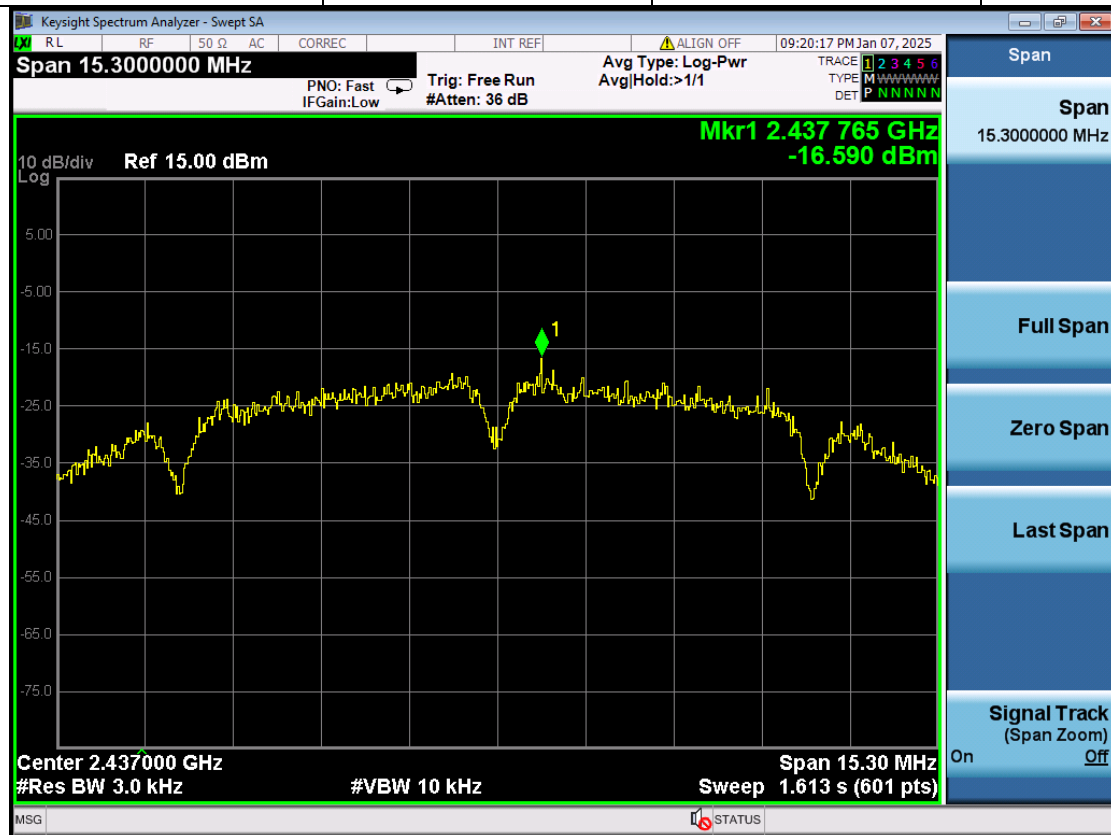
Frequency(MHz)	Level(dBm/3kHz)	Limit (dBm/3kHz)	Verdict
2411.4645	-18.523	8	Pass





1.2 A.7-Power Spectral Density (PSD)-PEAK(Test Freq:2437MHz, Test Mode:1Mbps)(NTNV)

Frequency(MHz)	Level(dBm/3kHz)	Limit (dBm/3kHz)	Verdict
2437.765	-16.59	8	Pass





1.3 A.7-Power Spectral Density (PSD)-PEAK(Test Freq:2462MHz, Test Mode:1Mbps)(NTNV)

Frequency(MHz)	Level(dBm/3kHz)	Limit (dBm/3kHz)	Verdict
2462.6885	-19.124	8	Pass

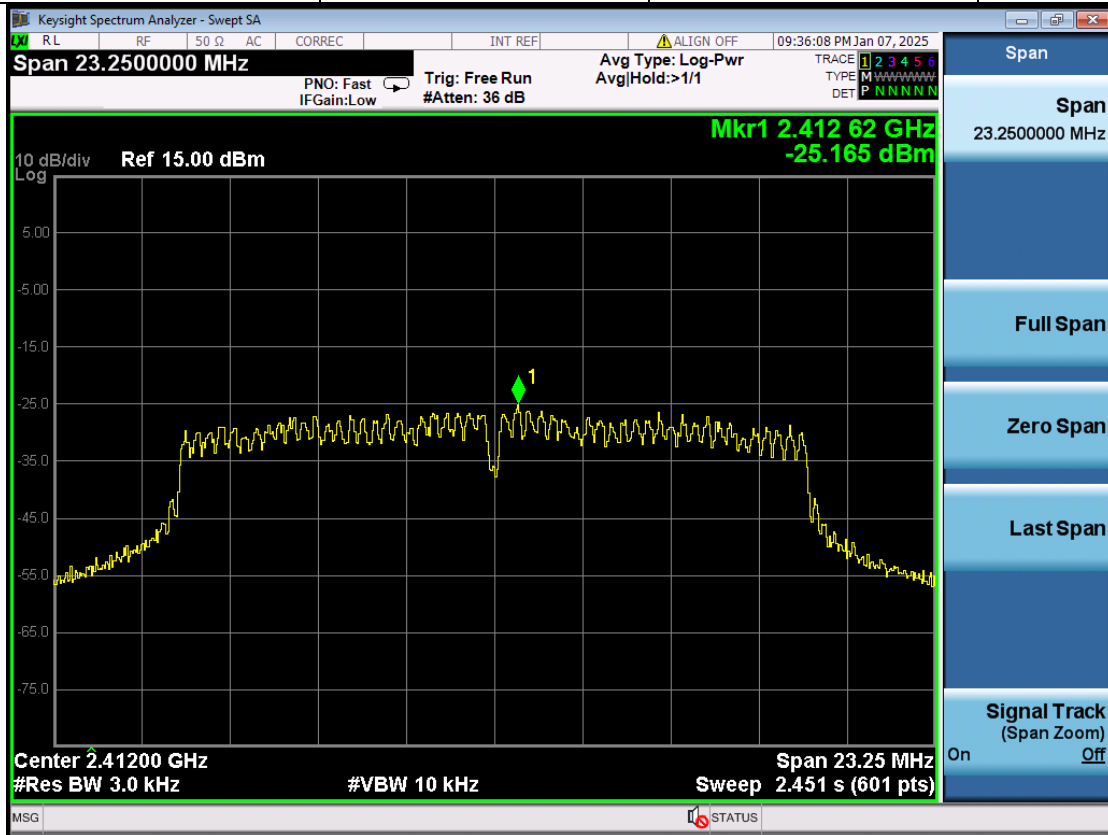


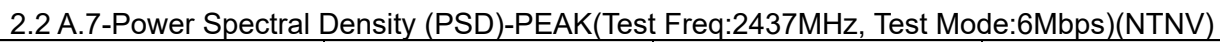


2. 802.11g

2.1 A.7-Power Spectral Density (PSD)-PEAK(Test Freq:2412MHz, Test Mode:6Mbps)(NTNV)

Frequency(MHz)	Level(dBm/3kHz)	Limit (dBm/3kHz)	Verdict
2412.62	-25.165	8	Pass





Keysight Spectrum Analyzer - Swept SA

RL 50 Ω AC CORREC INT REF ALIGN OFF 09:38:16 PM Jan 07, 2025

Marker 1 2.435713000000 GHz

PNO: Fast IFGain: Low Trig: Free Run #Atten: 36 dB Avg Type: Log-Pwr Avg|Hold:>1/1

TRACE 1 2 3 4 5 6
TYPE M
DET P NNNNN

Mkr1 2.435 713 GHz
-25.899 dBm

10 dB/div Ref 15.00 dBm
Log

Center 2.43700 GHz Span 23.40 MHz
#Res BW 3.0 kHz #VBW 10 kHz Sweep 2.467 s (601 pts)

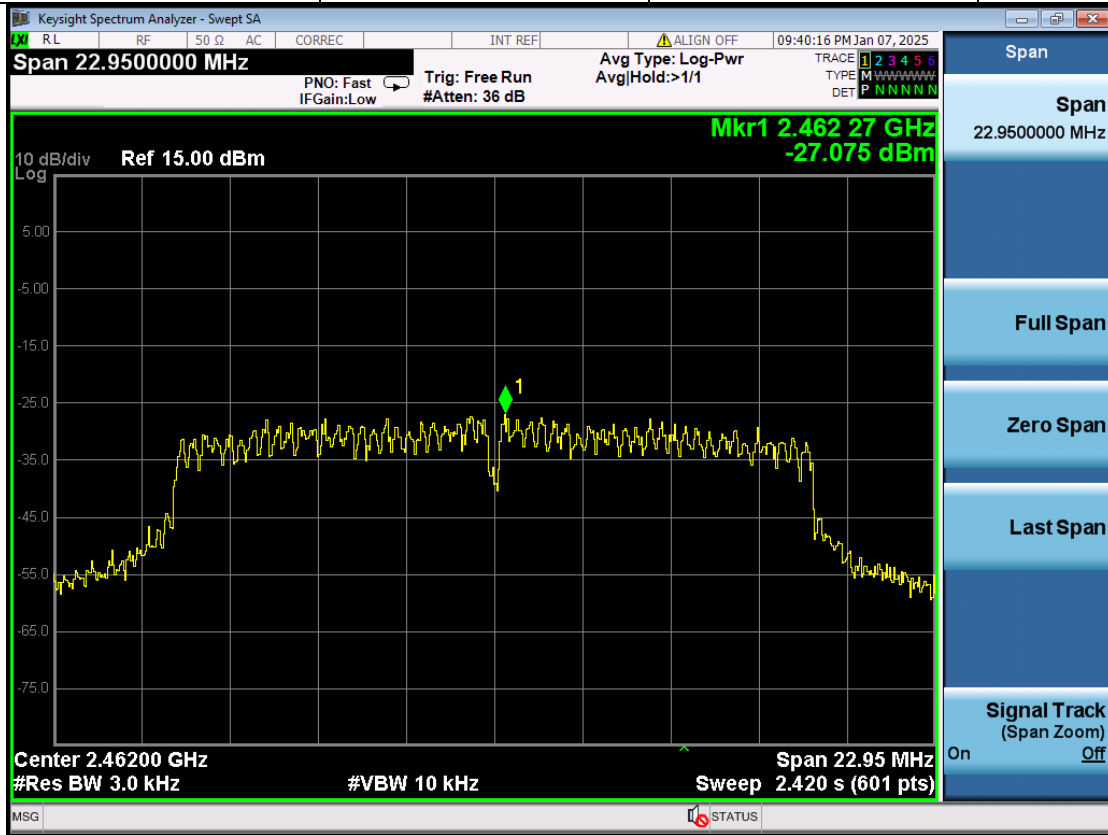
MSG STATUS

Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2



2.3 A.7-Power Spectral Density (PSD)-PEAK(Test Freq:2462MHz, Test Mode:6Mbps)(NTNV)

Frequency(MHz)	Level(dBm/3kHz)	Limit (dBm/3kHz)	Verdict
2462.26775	-27.075	8	Pass

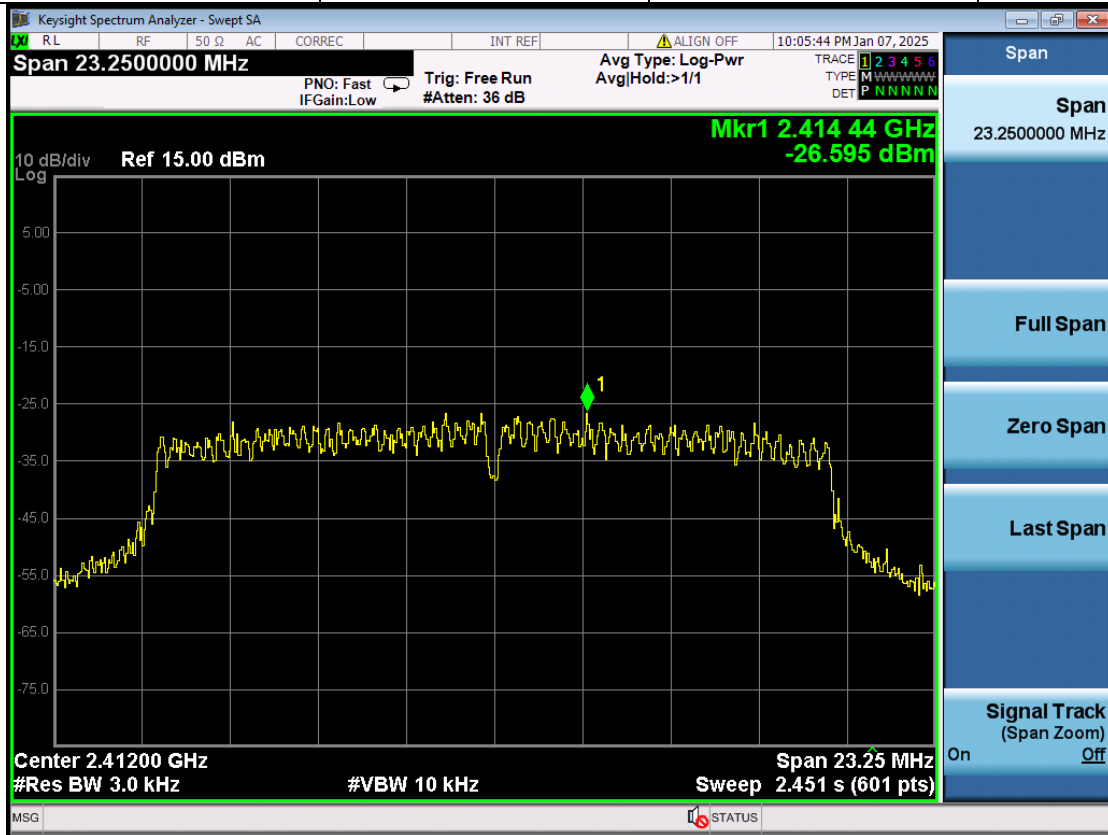




3. 802.11n_Band2.4G_BW20MHz

3.1 A.7-Power Spectral Density (PSD)-PEAK(Test Freq:2412MHz, Test Mode:6.5Mbps)(NTNV)

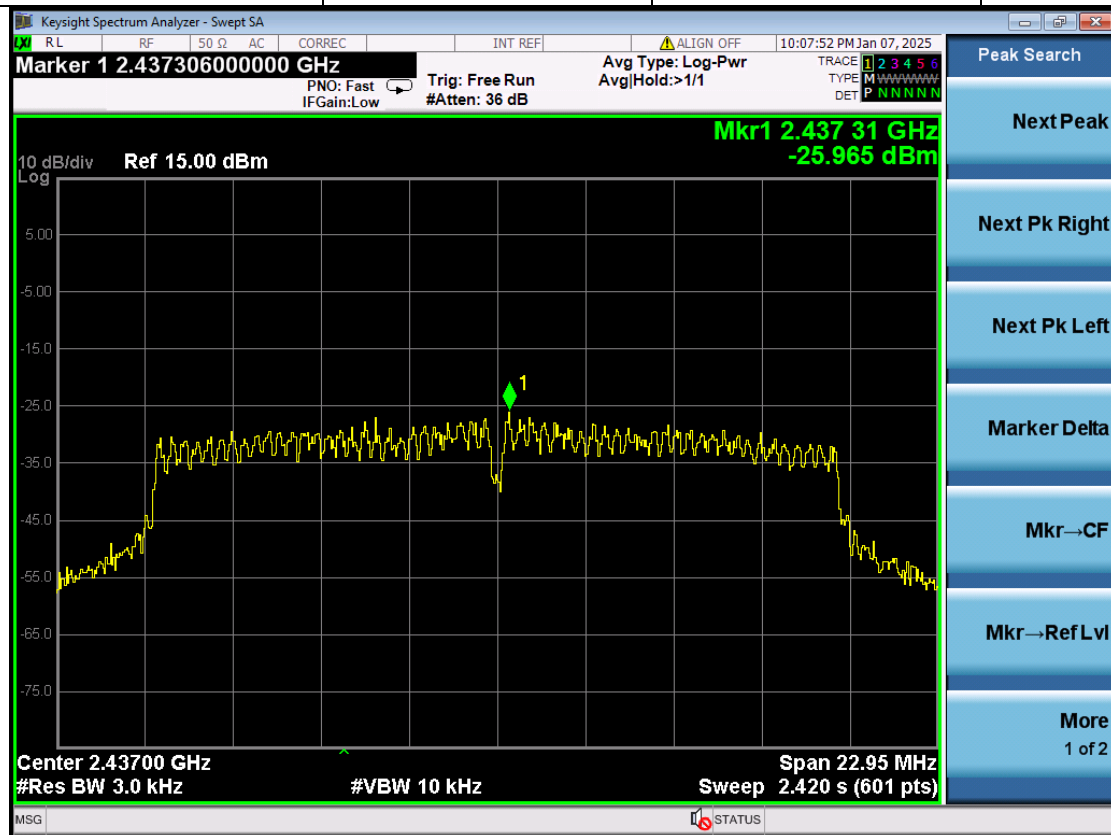
Frequency(MHz)	Level(dBm/3kHz)	Limit (dBm/3kHz)	Verdict
2414.44125	-26.595	8	Pass





3.2 A.7-Power Spectral Density (PSD)-PEAK(Test Freq:2437MHz, Test Mode:6.5Mbps)(NTNV)

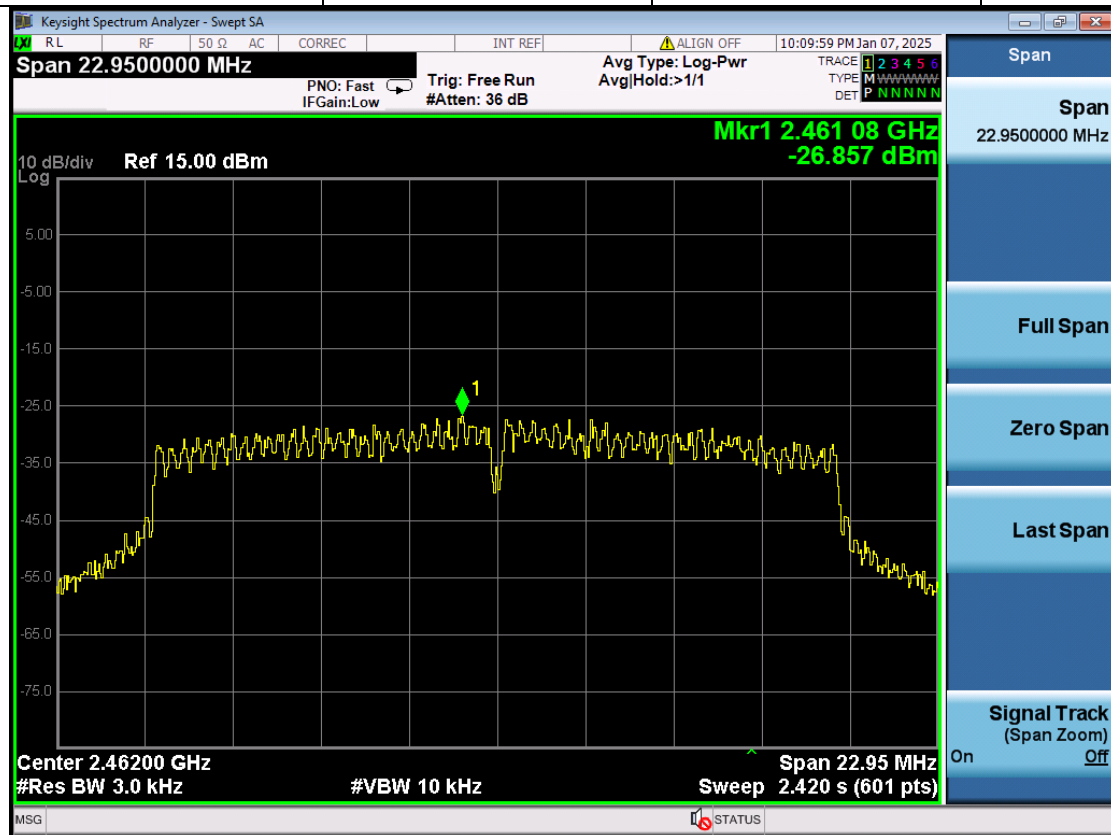
Frequency(MHz)	Level(dBm/3kHz)	Limit (dBm/3kHz)	Verdict
2437.306	-25.965	8	Pass





3.3 A.7-Power Spectral Density (PSD)-PEAK(Test Freq:2462MHz, Test Mode:6.5Mbps)(NTNV)

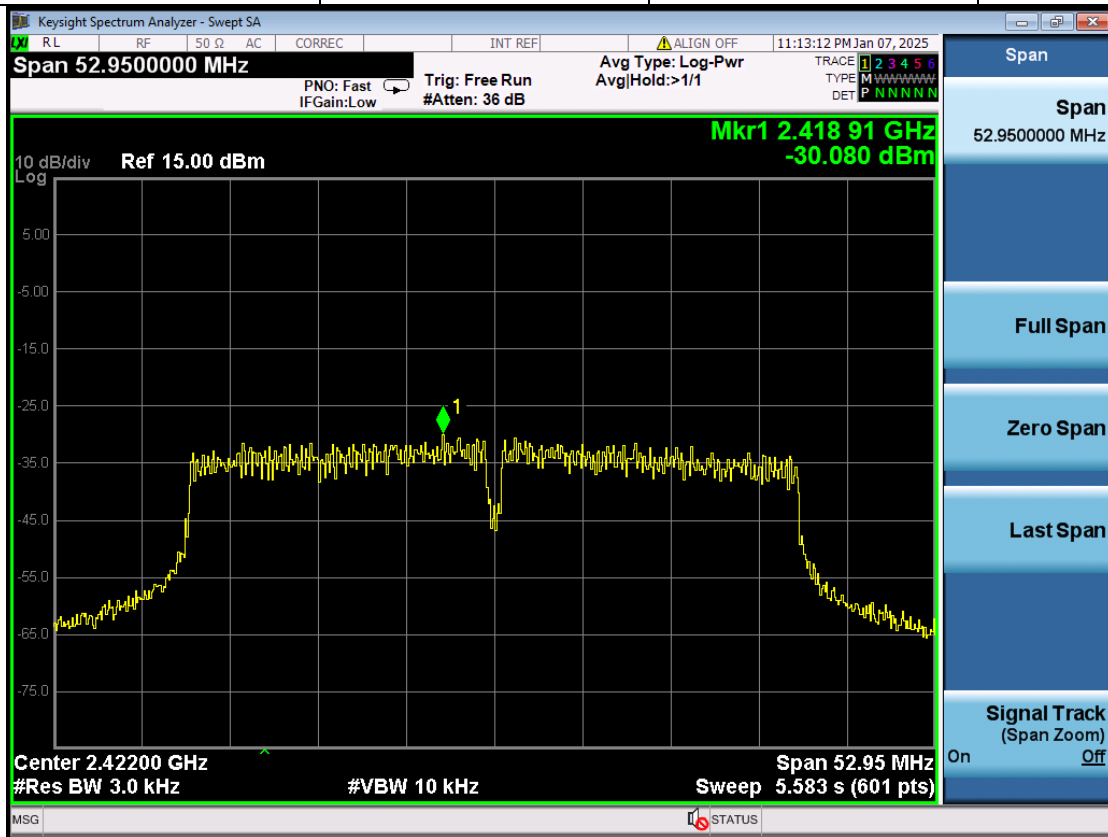
Frequency(MHz)	Level(dBm/3kHz)	Limit (dBm/3kHz)	Verdict
2461.082	-26.857	8	Pass



4. 802.11n_Band2.4G_BW40MHz

4.1 A.7-Power Spectral Density (PSD)-PEAK(Test Freq:2422MHz, Test Mode:13.5Mbps)(NTNV)

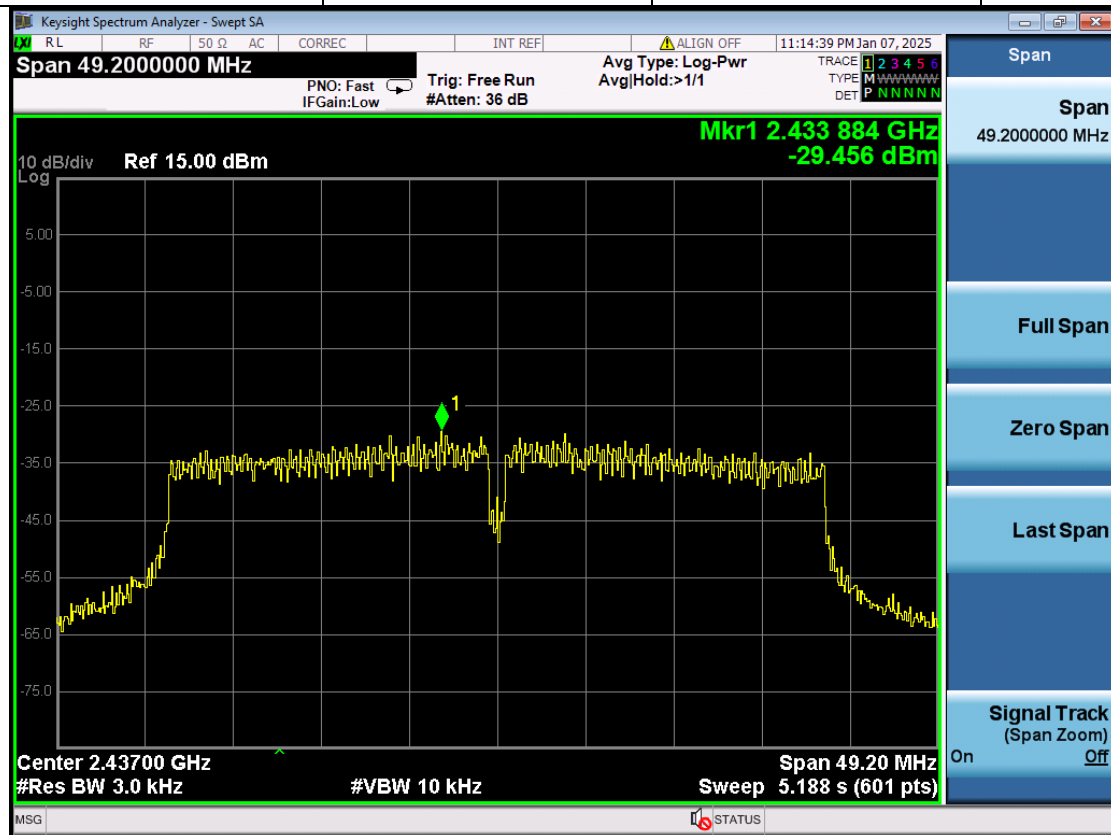
Frequency(MHz)	Level(dBm/3kHz)	Limit (dBm/3kHz)	Verdict
2418.91125	-30.08	8	Pass

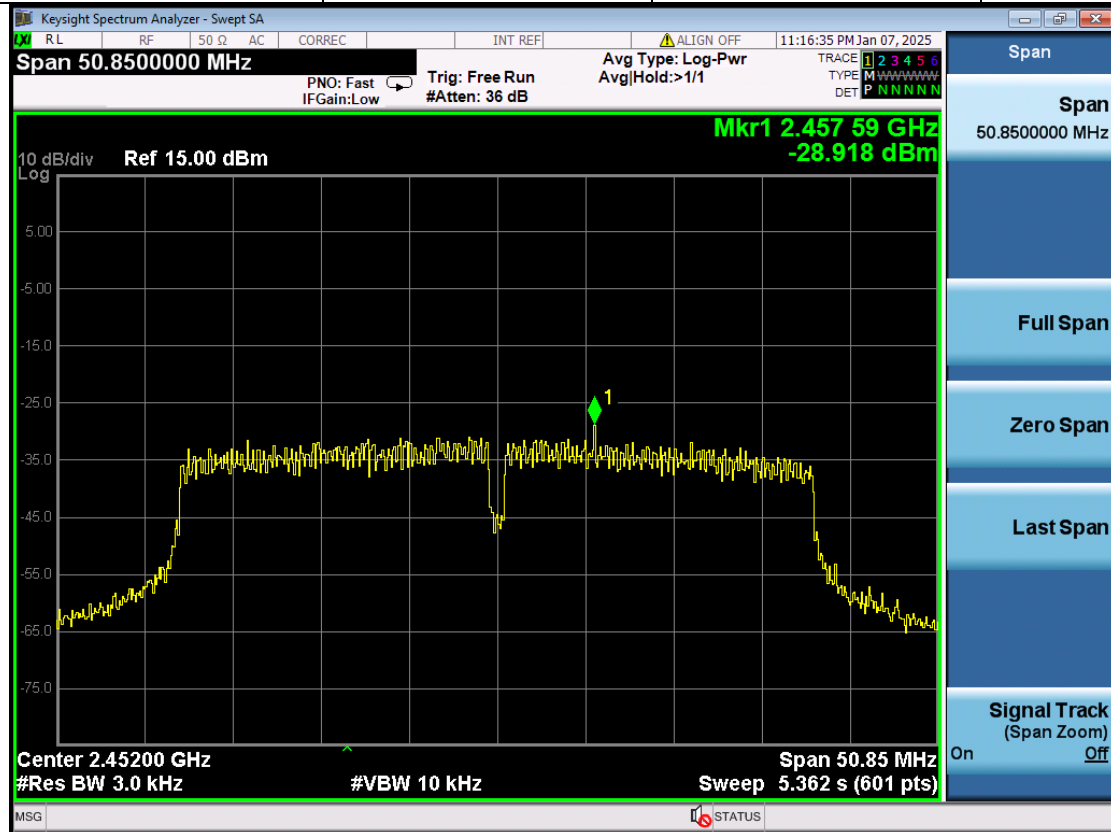
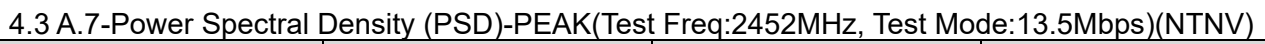




4.2 A.7-Power Spectral Density (PSD)-PEAK(Test Freq:2437MHz, Test Mode:13.5Mbps)(NTNV)

Frequency(MHz)	Level(dBm/3kHz)	Limit (dBm/3kHz)	Verdict
2433.884	-29.456	8	Pass



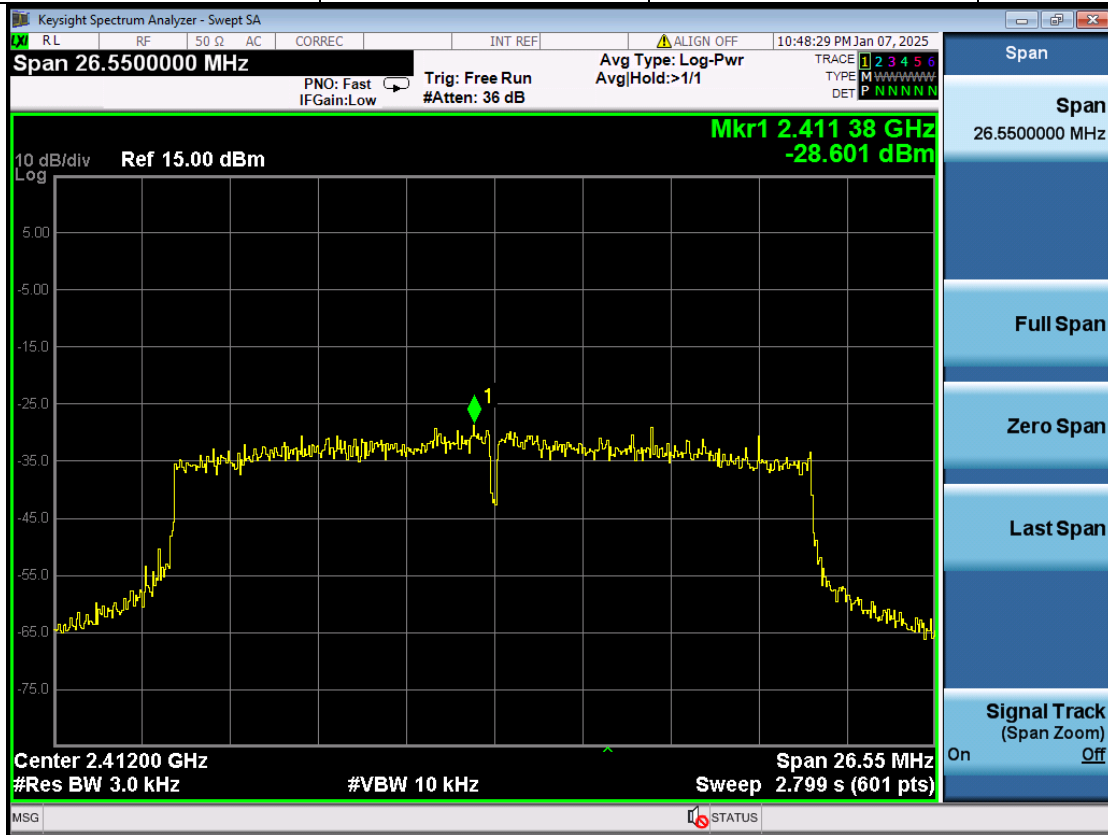


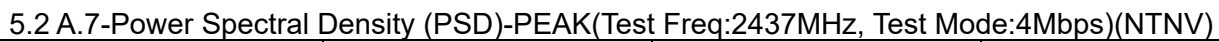


5. 802.11ax_Band2.4G_BW20MHz

5.1 A.7-Power Spectral Density (PSD)-PEAK(Test Freq:2412MHz, Test Mode:4Mbps)(NTNV)

Frequency(MHz)	Level(dBm/3kHz)	Limit (dBm/3kHz)	Verdict
2411.3805	-28.601	8	Pass





Keysight Spectrum Analyzer - Swept SA

RL RF 50 Ω AC CORREC INT REF ⚠ ALIGN OFF 10:51:16 PM Jan 07, 2025

Span 25.350000 MHz

PNO: Fast IFGain: Low Trig: Free Run #Atten: 36 dB Avg Type: Log-Pwr AvgHold: >1/1

TRACE 1 2 3 4 5 6 TYPE M M M M M M M M DET P N N N N N N

Mkr1 2.437 72 GHz -28.991 dBm

10 dB/div Ref 15.00 dBm Log

Center 2.43700 GHz Span 25.35 MHz
#Res BW 3.0 kHz #VBW 10 kHz Sweep 2.673 s (601 pts)

Span 25.350000 MHz

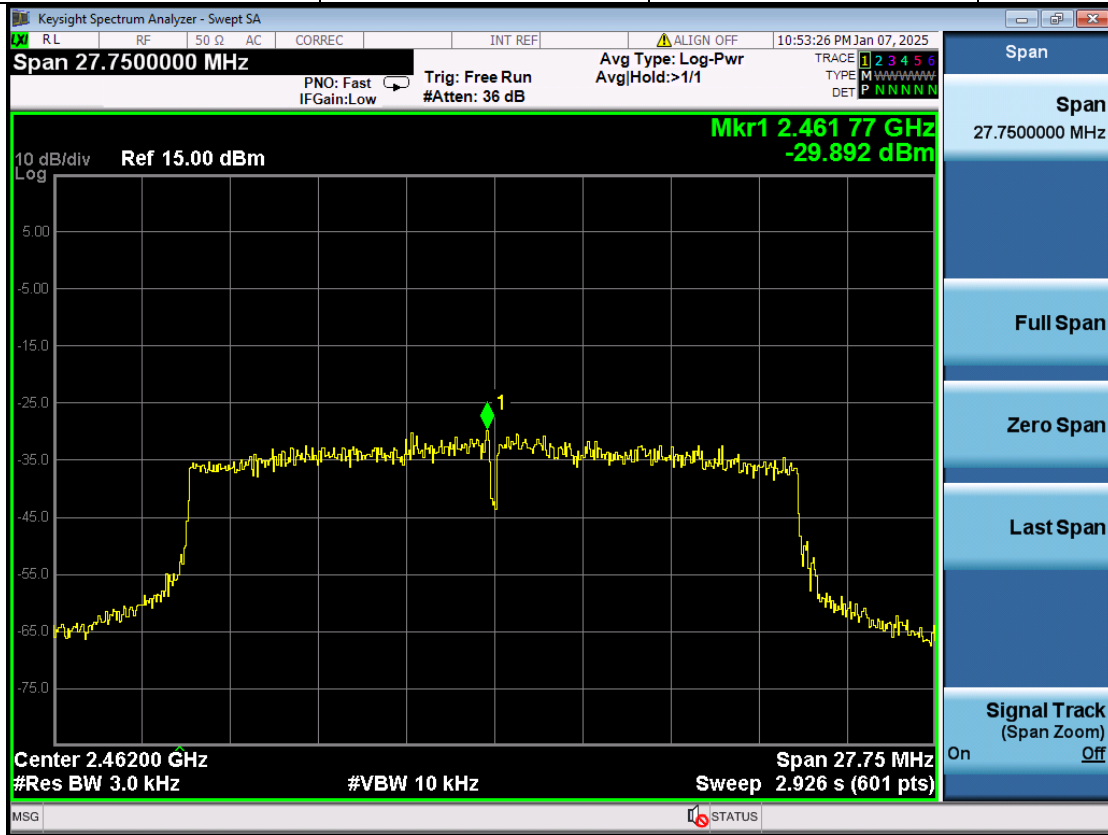
Full Span Zero Span Last Span

Signal Track (Span Zoom) On Off



5.3 A.7-Power Spectral Density (PSD)-PEAK(Test Freq:2462MHz, Test Mode:4Mbps)(NTNV)

Frequency(MHz)	Level(dBm/3kHz)	Limit (dBm/3kHz)	Verdict
2461.76875	-29.892	8	Pass

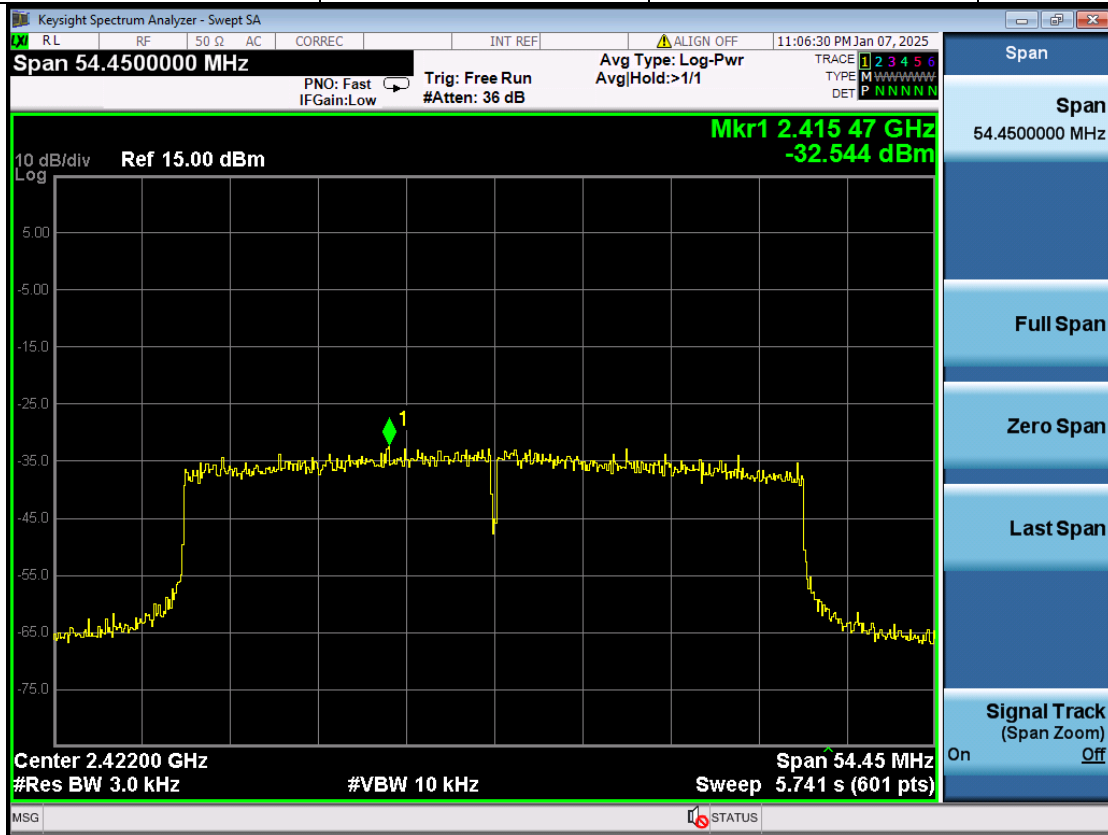




6. 802.11ax_Band2.4G_BW40MHz

6.1 A.7-Power Spectral Density (PSD)-PEAK(Test Freq:2422MHz, Test Mode:8Mbps)(NTNV)

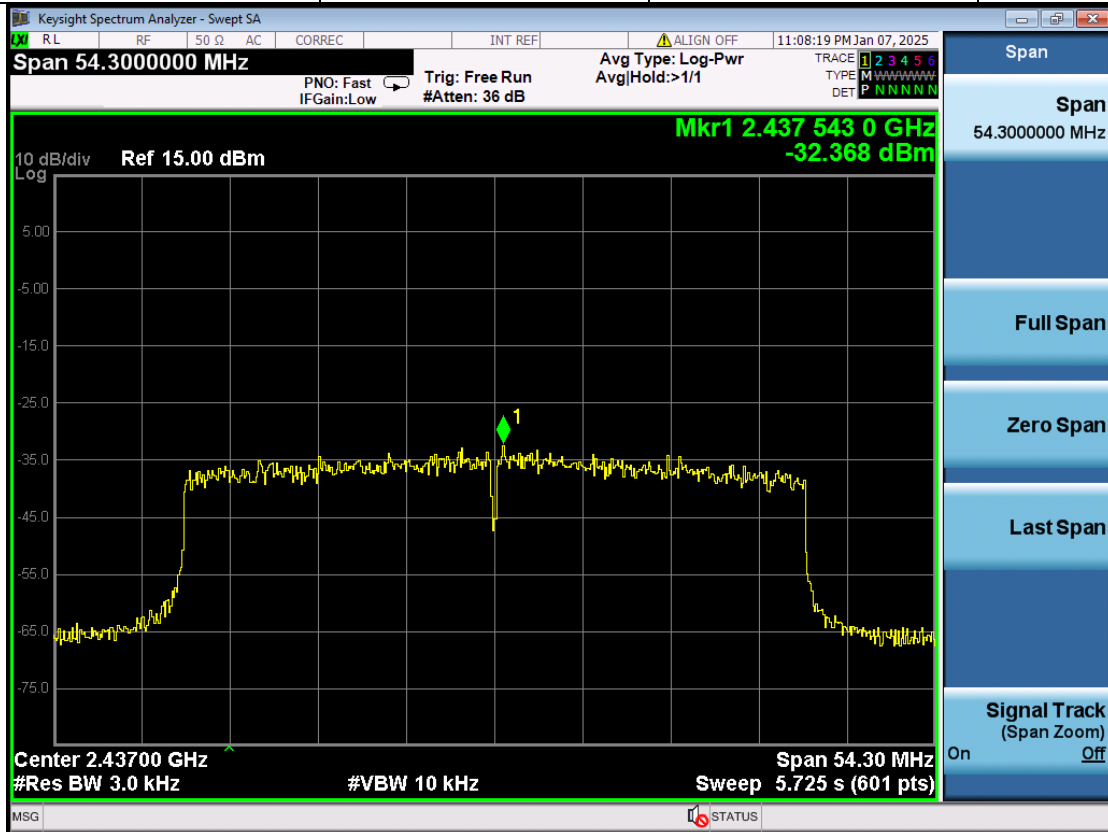
Frequency(MHz)	Level(dBm/3kHz)	Limit (dBm/3kHz)	Verdict
2415.466	-32.544	8	Pass





6.2 A.7-Power Spectral Density (PSD)-PEAK(Test Freq:2437MHz, Test Mode:8Mbps)(NTNV)

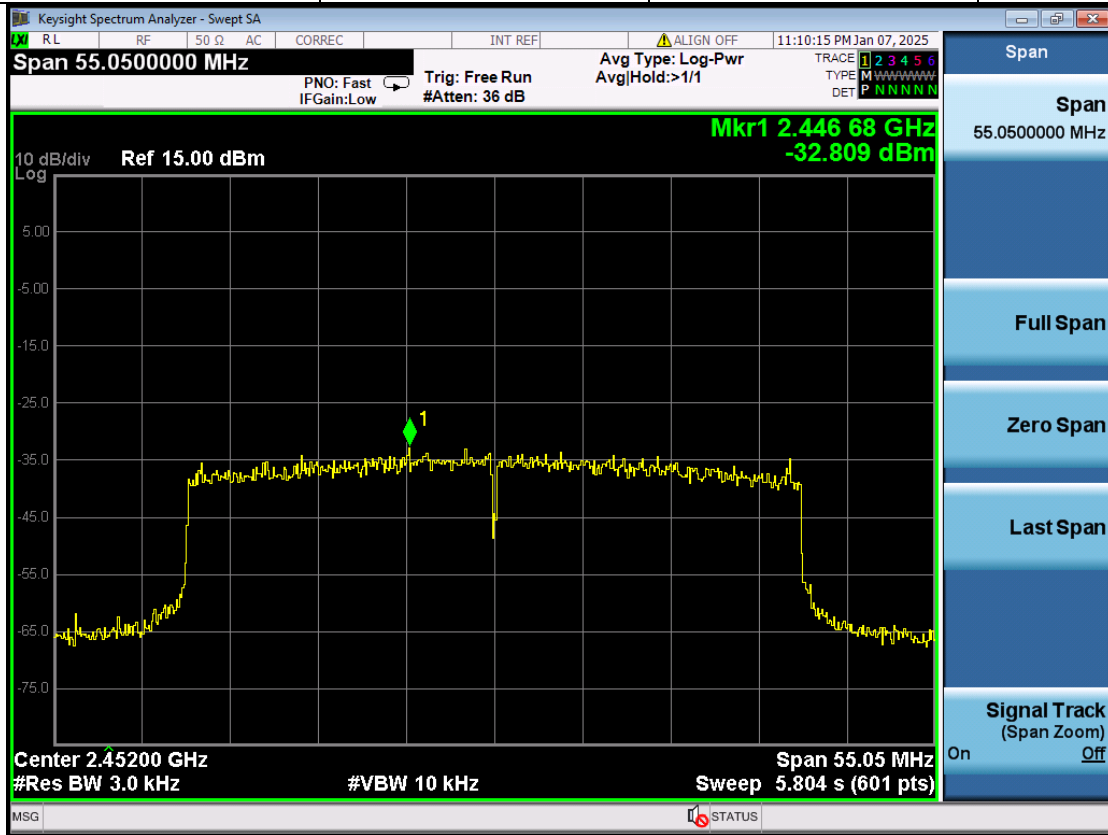
Frequency(MHz)	Level(dBm/3kHz)	Limit (dBm/3kHz)	Verdict
2437.543	-32.368	8	Pass





6.3 A.7-Power Spectral Density (PSD)-PEAK(Test Freq:2452MHz, Test Mode:8Mbps)(NTNV)

Frequency(MHz)	Level(dBm/3kHz)	Limit (dBm/3kHz)	Verdict
2446.6785	-32.809	8	Pass

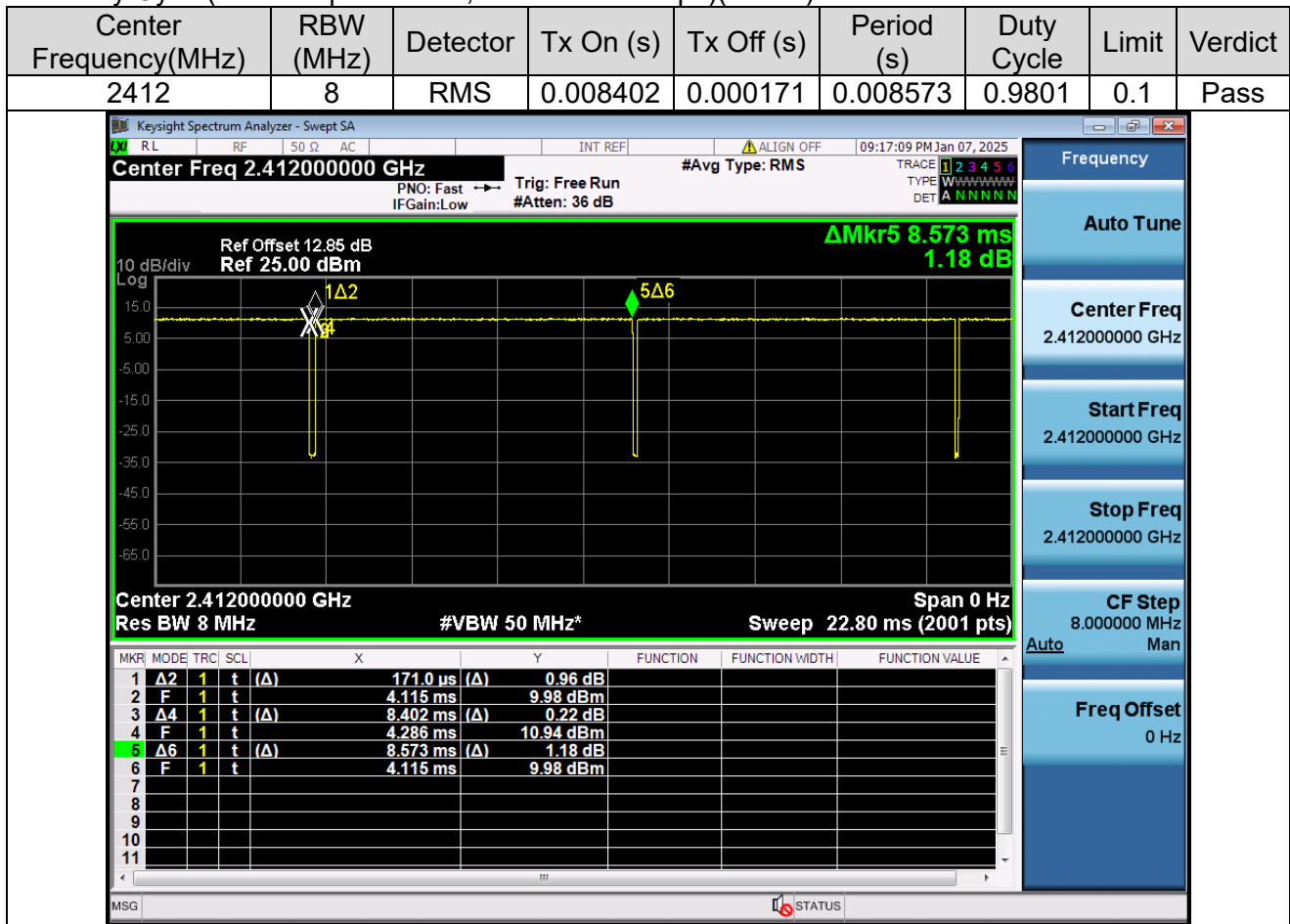




Annex A. Duty Cycle

1. 802.11b

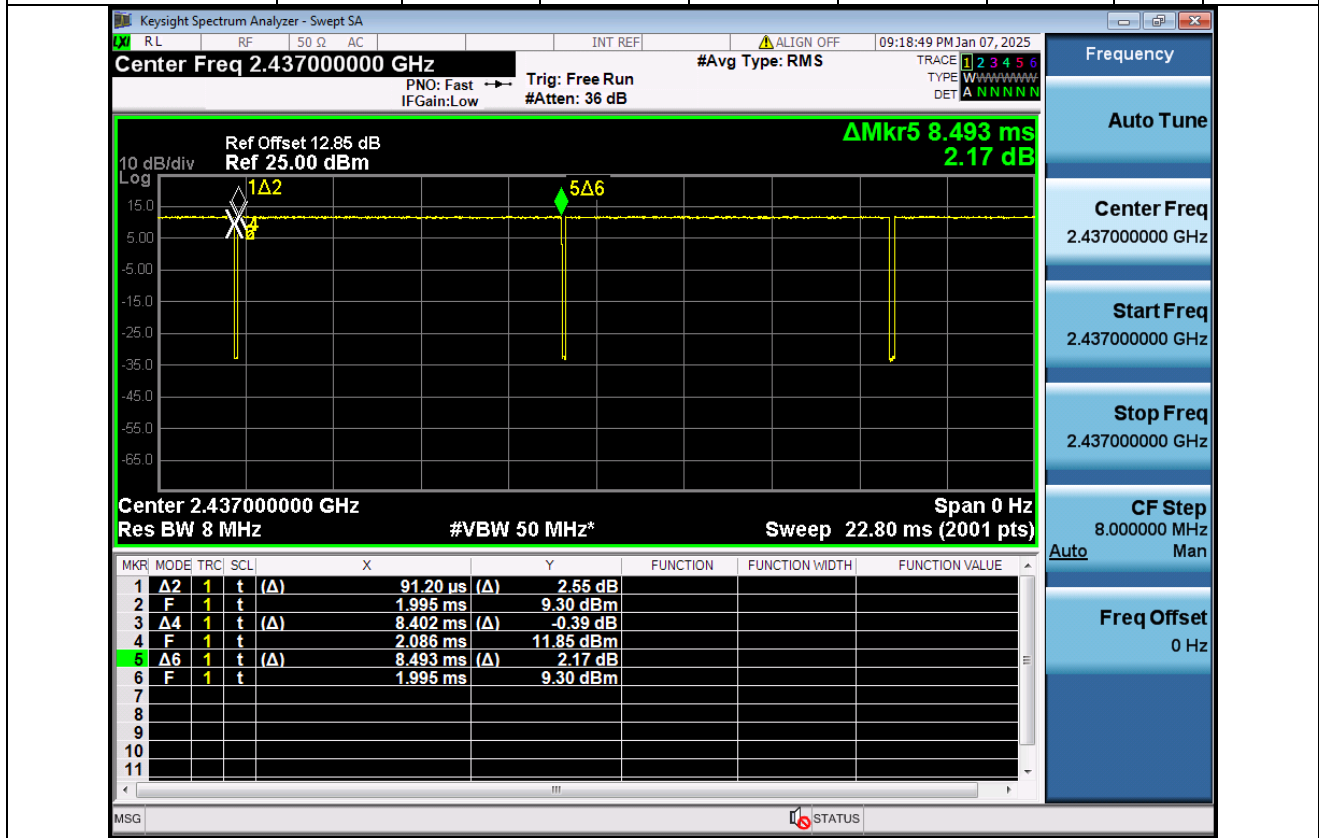
1.1 Duty Cycle(Test Freq:2412MHz, Test Mode:1Mbps)(NTNV)





1.2 Duty Cycle(Test Freq:2437MHz, Test Mode:1Mbps)(NTNV)

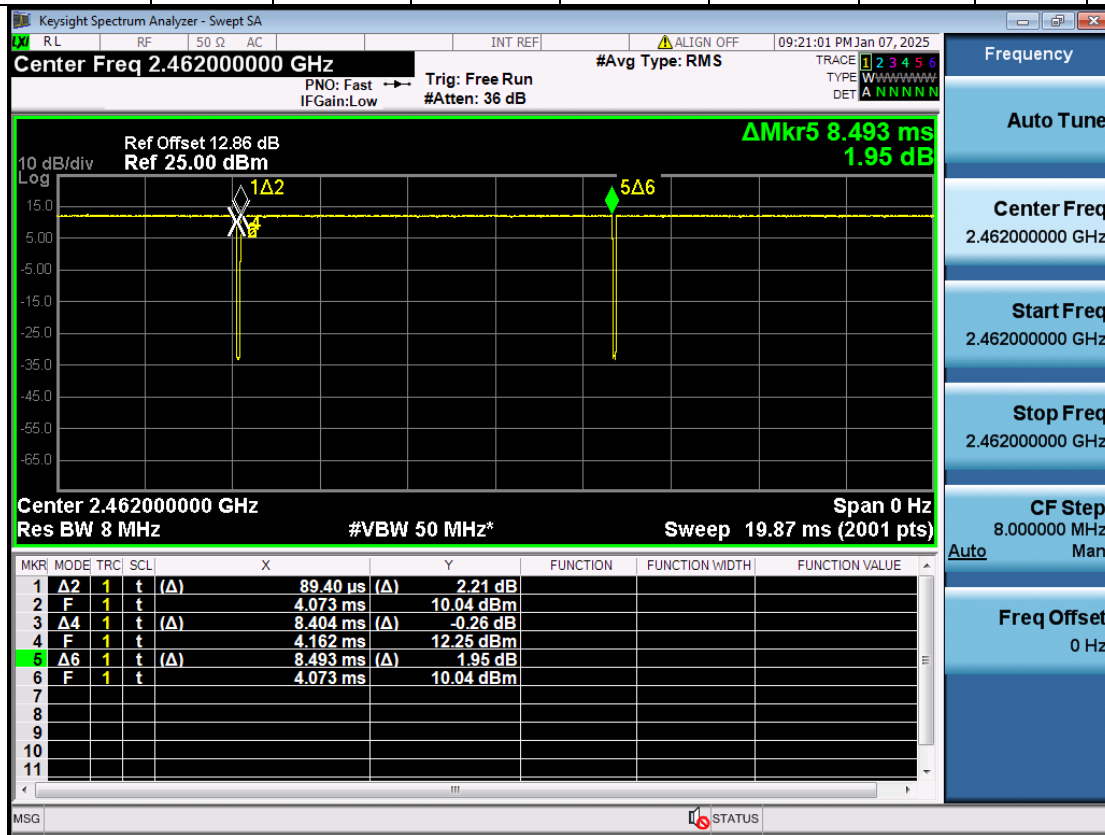
Center Frequency(MHz)	RBW (MHz)	Detector	Tx On (s)	Tx Off (s)	Period (s)	Duty Cycle	Limit	Verdict
2437	8	RMS	0.008402	0.000091	0.008493	0.9893	0.1	Pass





1.3 Duty Cycle(Test Freq:2462MHz, Test Mode:1Mbps)(NTNV)

Center Frequency(MHz)	RBW (MHz)	Detector	Tx On (s)	Tx Off (s)	Period (s)	Duty Cycle	Limit	Verdict
2462	8	RMS	0.008404	0.000089	0.008493	0.9895	0.1	Pass

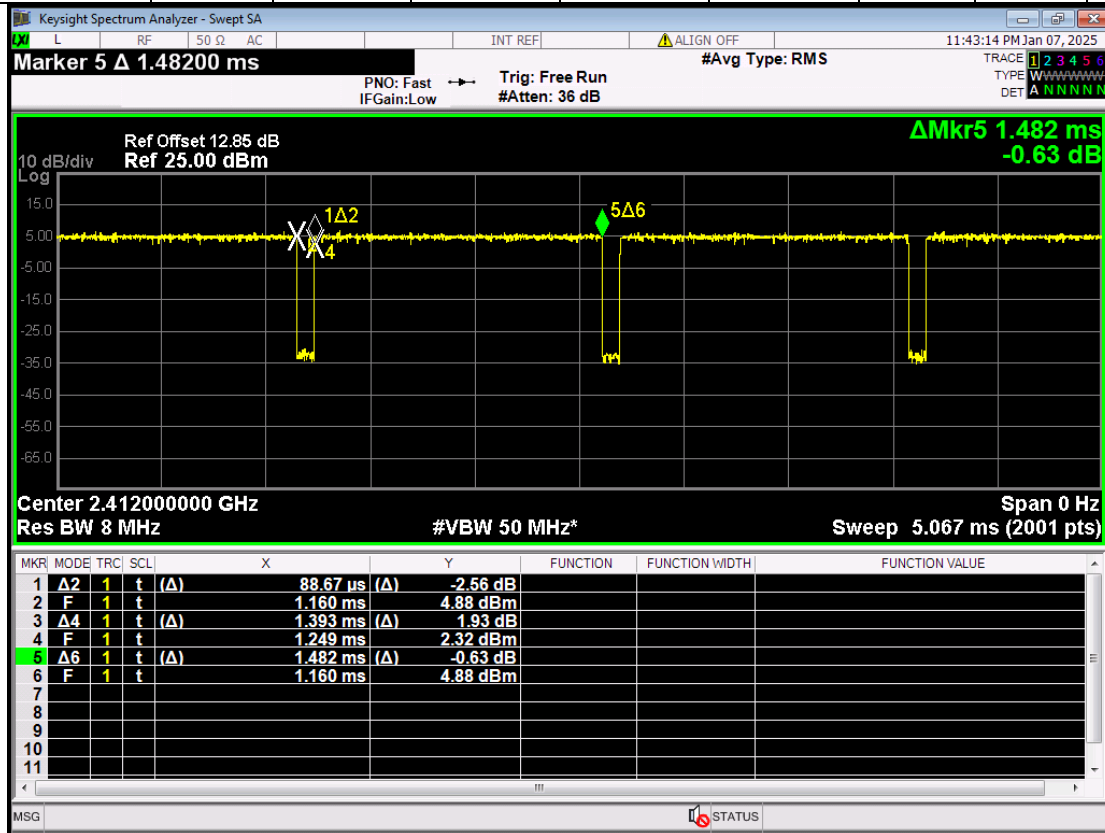




2. 802.11g

2.1 Duty Cycle(Test Freq:2412MHz, Test Mode:6Mbps)(NTNV)

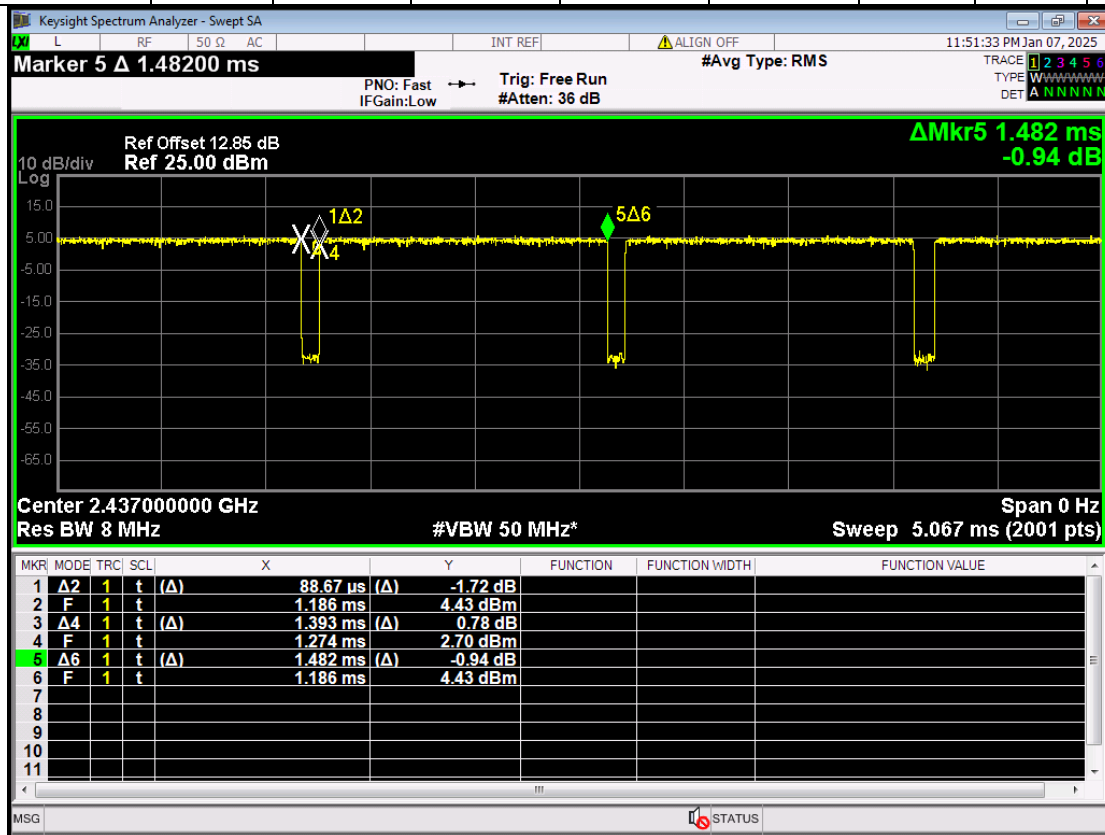
Center Frequency(MHz)	RBW (MHz)	Detector	Tx On (s)	Tx Off (s)	Period (s)	Duty Cycle	Limit	Verdict
2412	8	RMS	0.001393	0.000089	0.001482	0.9399	0.1	Pass





2.2 Duty Cycle(Test Freq:2437MHz, Test Mode:6Mbps)(NTNV)

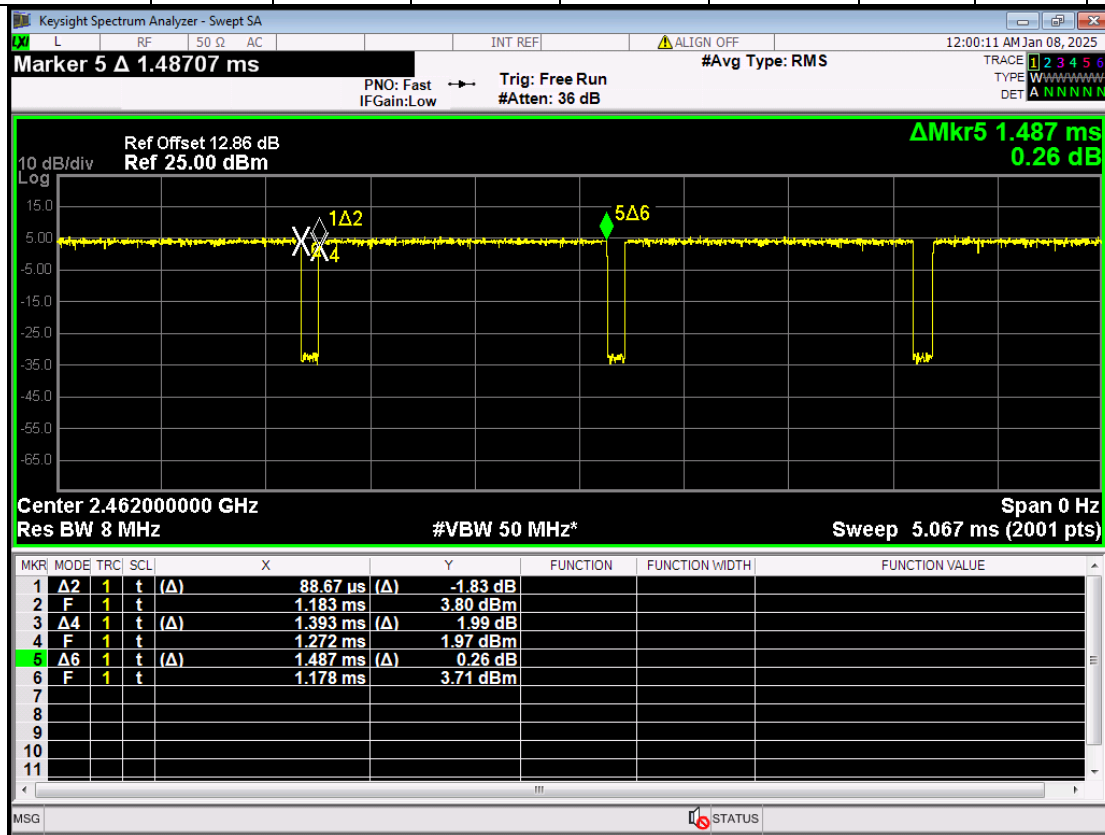
Center Frequency(MHz)	RBW (MHz)	Detector	Tx On (s)	Tx Off (s)	Period (s)	Duty Cycle	Limit	Verdict
2437	8	RMS	0.001394	0.000089	0.001482	0.9406	0.1	Pass





2.3 Duty Cycle(Test Freq:2437MHz, Test Mode:6Mbps)(NTNV)

Center Frequency(MHz)	RBW (MHz)	Detector	Tx On (s)	Tx Off (s)	Period (s)	Duty Cycle	Limit	Verdict
2437	8	RMS	0.001393	0.000089	0.001487	0.9368	0.1	Pass

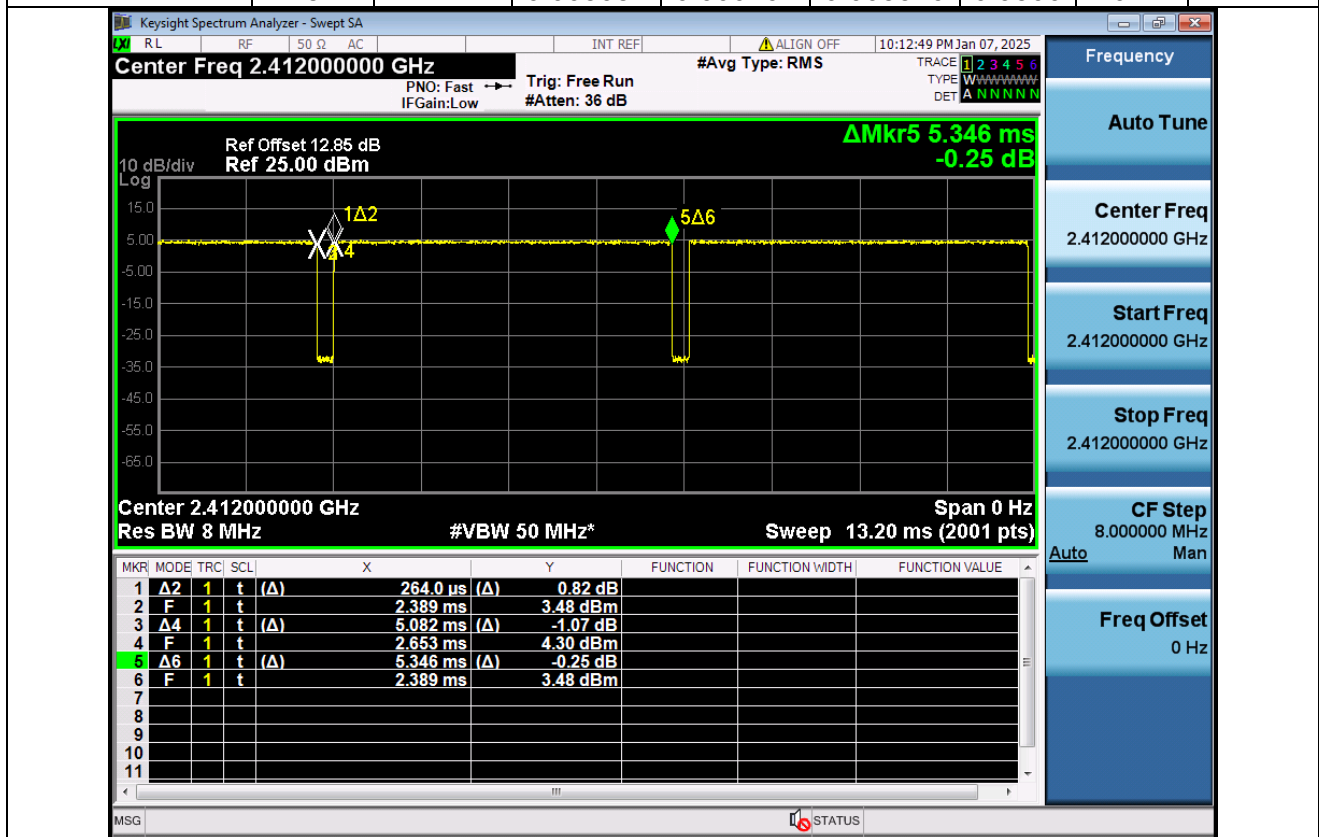




3. 802.11n_Band2.4G_BW20MHz

3.1 Duty Cycle(Test Freq:2412MHz, Test Mode:6.5Mbps)(NTNV)

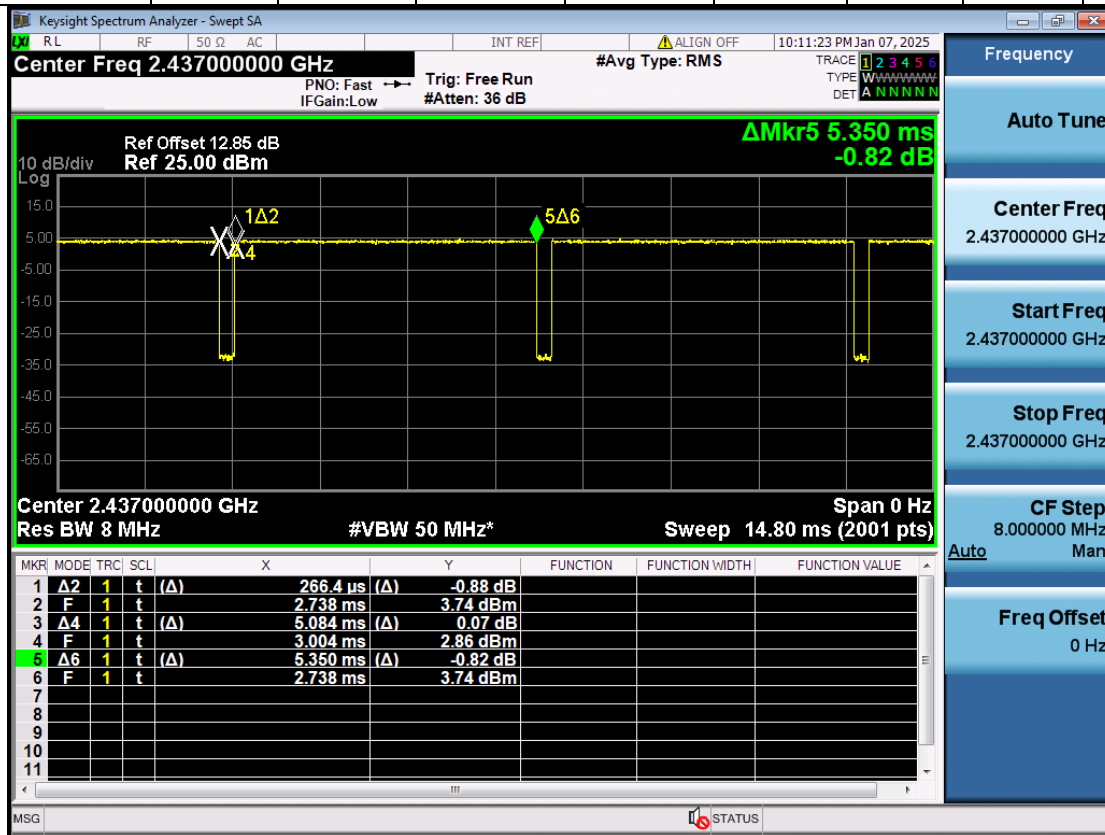
Center Frequency(MHz)	RBW (MHz)	Detector	Tx On (s)	Tx Off (s)	Period (s)	Duty Cycle	Limit	Verdict
2412	8	RMS	0.005082	0.000264	0.005346	0.9506	0.1	Pass





3.2 Duty Cycle(Test Freq:2437MHz, Test Mode:6.5Mbps)(NTNV)

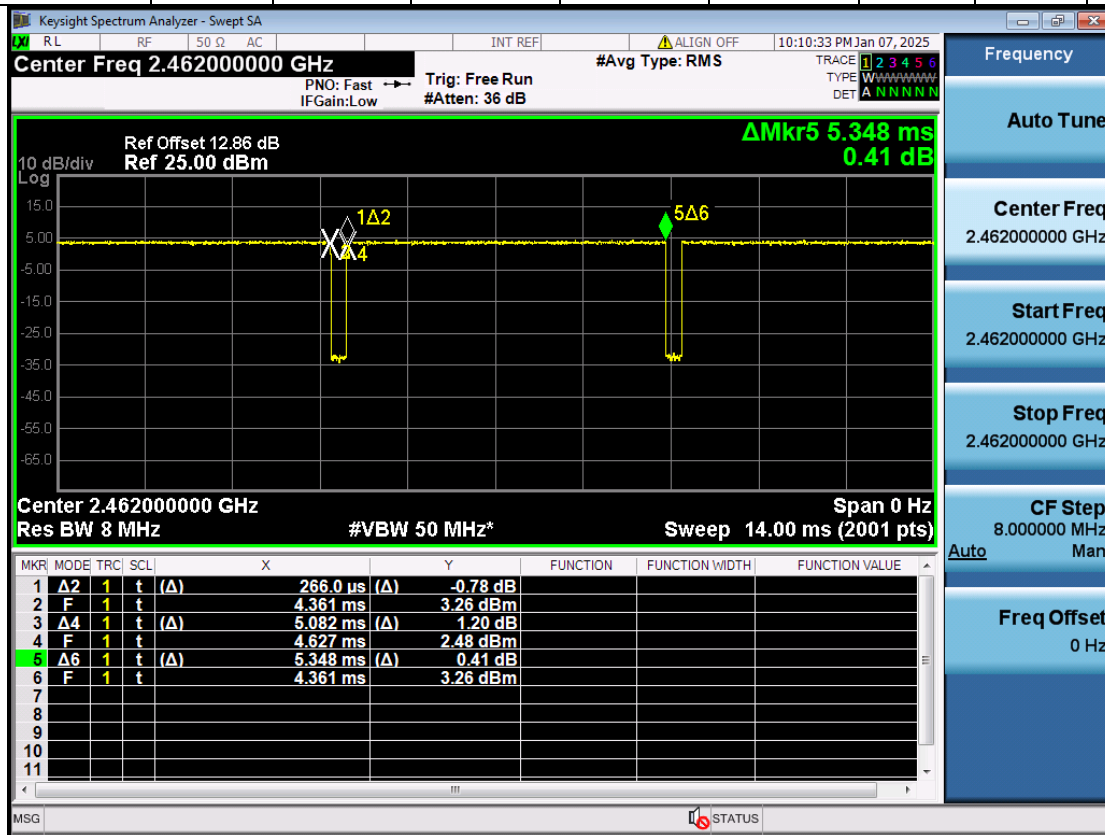
Center Frequency(MHz)	RBW (MHz)	Detector	Tx On (s)	Tx Off (s)	Period (s)	Duty Cycle	Limit	Verdict
2437	8	RMS	0.005084	0.000266	0.00535	0.9502	0.1	Pass





3.3 Duty Cycle(Test Freq:2462MHz, Test Mode:6.5Mbps)(NTNV)

Center Frequency(MHz)	RBW (MHz)	Detector	Tx On (s)	Tx Off (s)	Period (s)	Duty Cycle	Limit	Verdict
2462	8	RMS	0.005082	0.000266	0.005348	0.9503	0.1	Pass

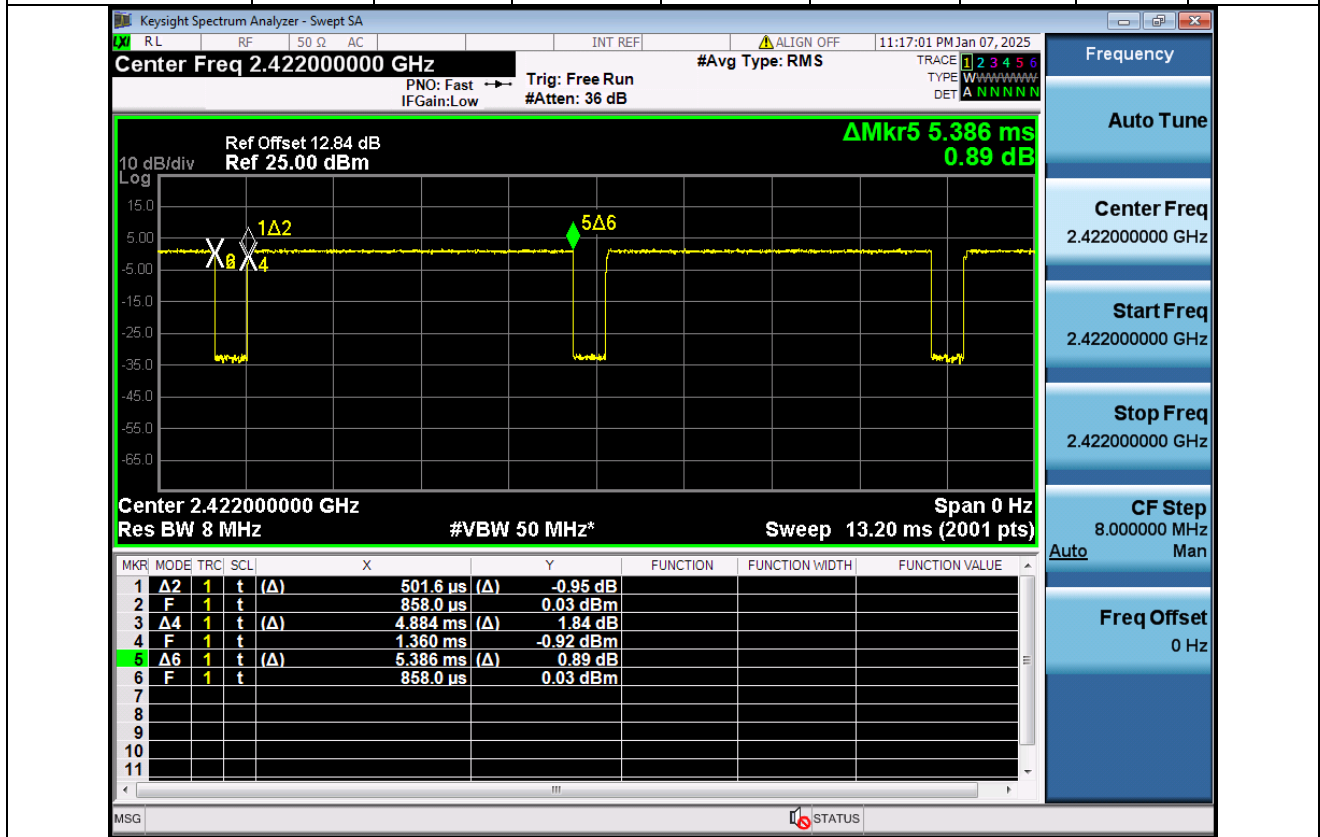




4. 802.11n_Band2.4G_BW40MHz

4.1 Duty Cycle(Test Freq:2422MHz, Test Mode:13.5Mbps)(NTNV)

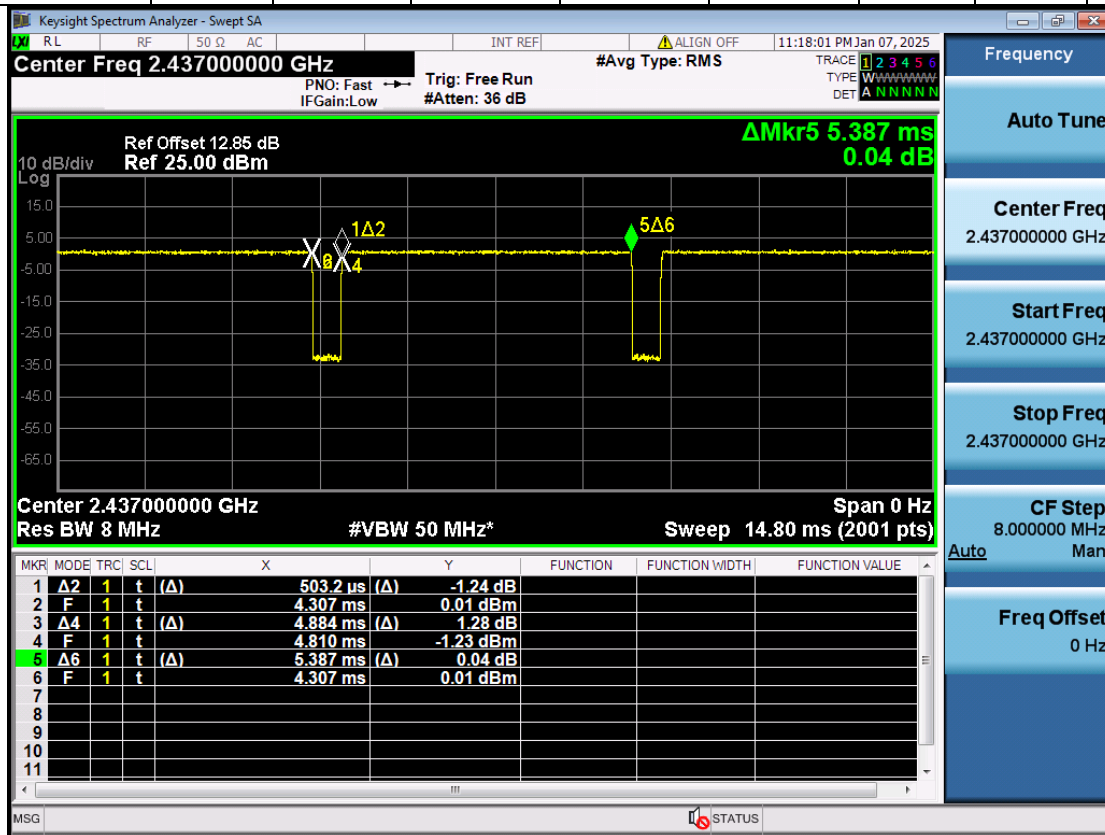
Center Frequency(MHz)	RBW (MHz)	Detector	Tx On (s)	Tx Off (s)	Period (s)	Duty Cycle	Limit	Verdict
2422	8	RMS	0.004884	0.000502	0.005386	0.9069	0.1	Pass





4.2 Duty Cycle(Test Freq:2437MHz, Test Mode:13.5Mbps)(NTNV)

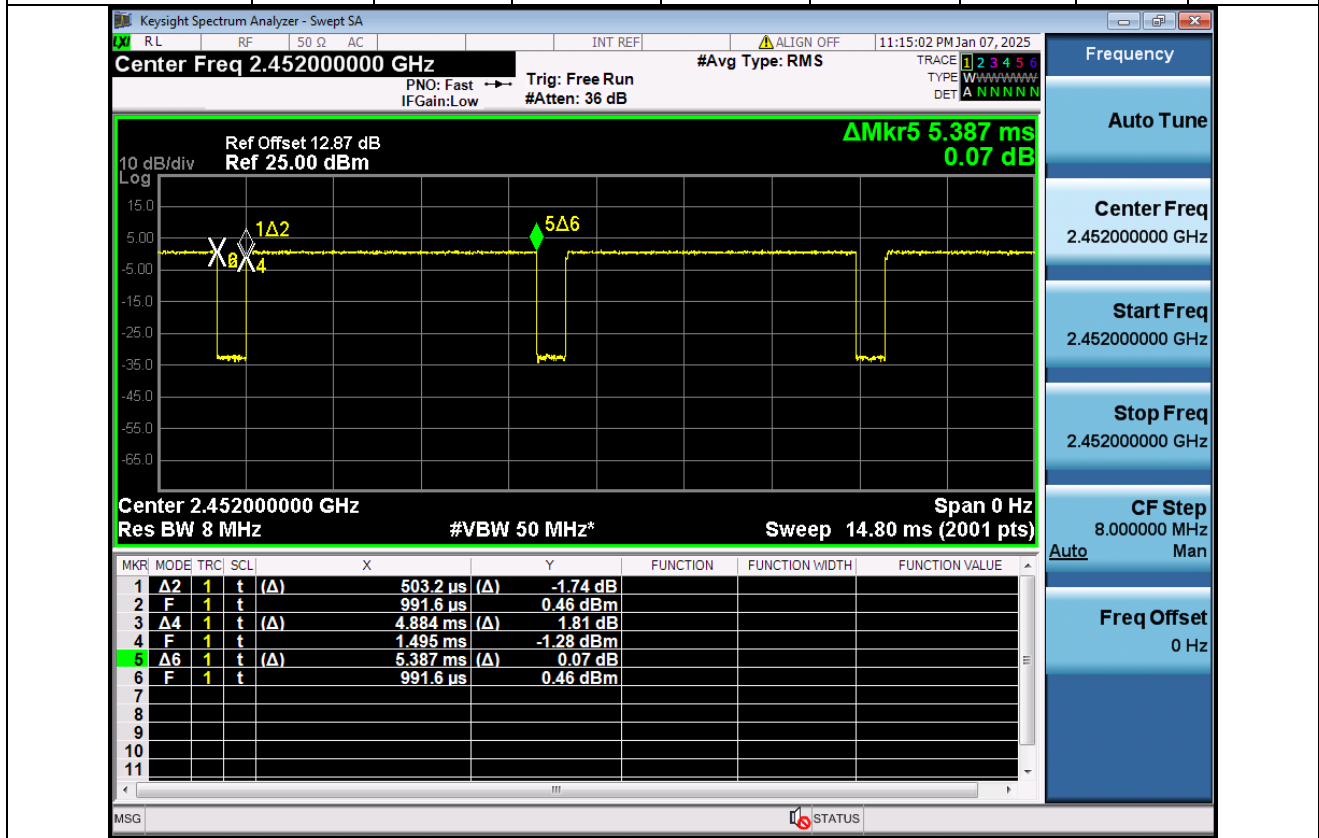
Center Frequency(MHz)	RBW (MHz)	Detector	Tx On (s)	Tx Off (s)	Period (s)	Duty Cycle	Limit	Verdict
2437	8	RMS	0.004884	0.000503	0.005387	0.9066	0.1	Pass





4.3 Duty Cycle(Test Freq:2452MHz, Test Mode:13.5Mbps)(NTNV)

Center Frequency(MHz)	RBW (MHz)	Detector	Tx On (s)	Tx Off (s)	Period (s)	Duty Cycle	Limit	Verdict
2452	8	RMS	0.004884	0.000503	0.005387	0.9066	0.1	Pass

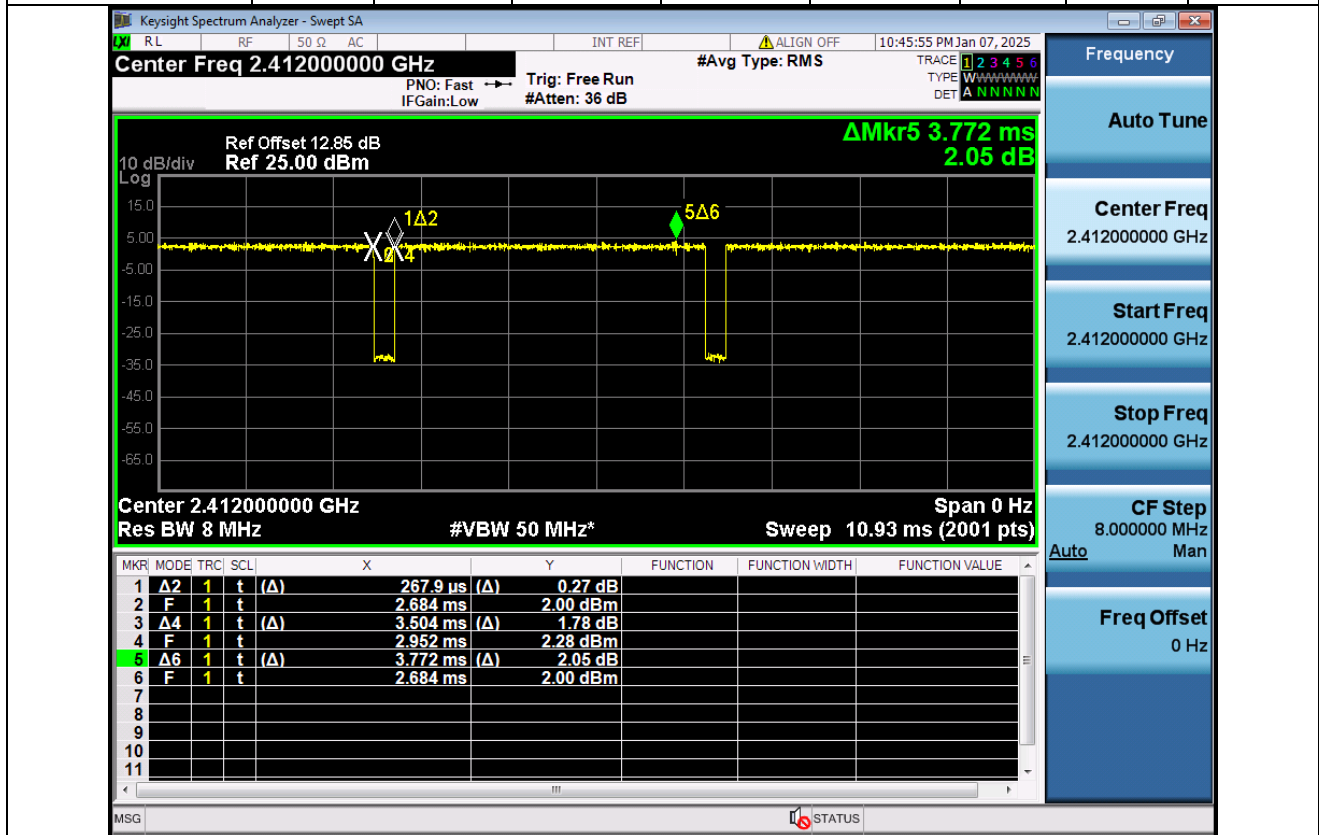




5. 802.11ax_Band2.4G_BW20MHz

5.1 Duty Cycle(Test Freq:2412MHz, Test Mode:4Mbps)(NTNV)

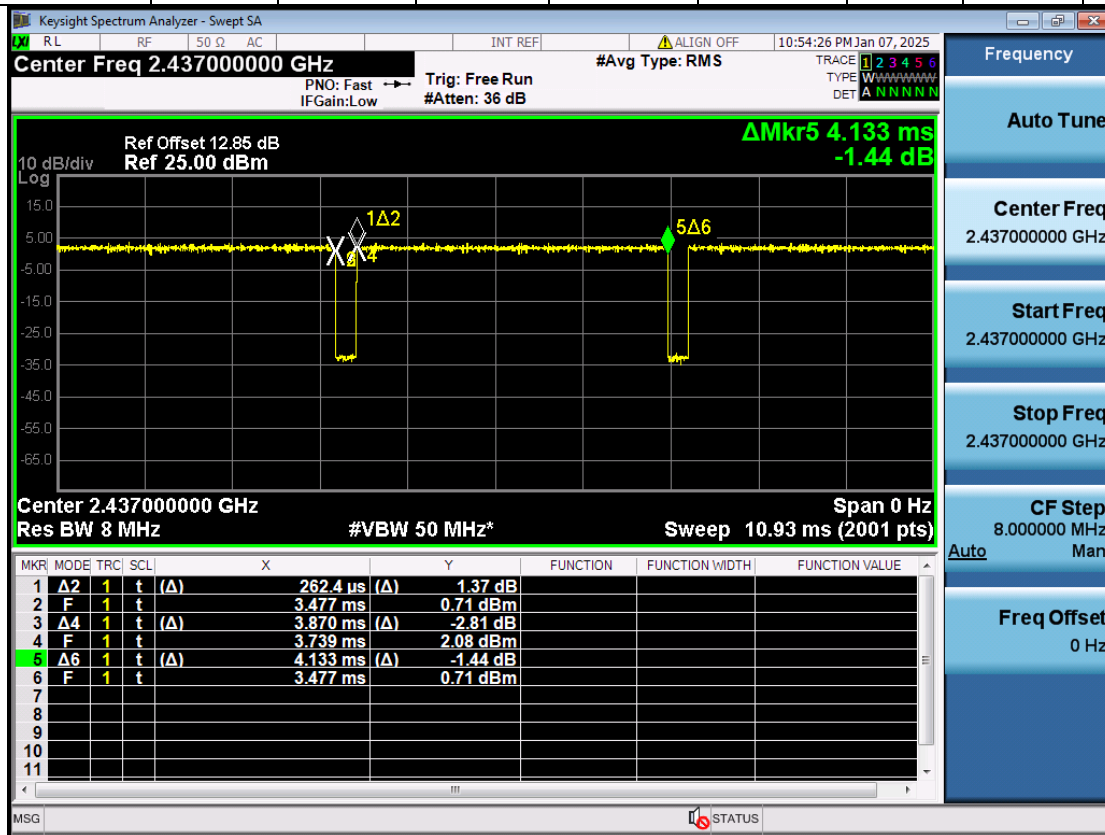
Center Frequency(MHz)	RBW (MHz)	Detector	Tx On (s)	Tx Off (s)	Period (s)	Duty Cycle	Limit	Verdict
2412	8	RMS	0.003504	0.000268	0.003772	0.929	0.1	Pass





5.2 Duty Cycle(Test Freq:2437MHz, Test Mode:4Mbps)(NTNV)

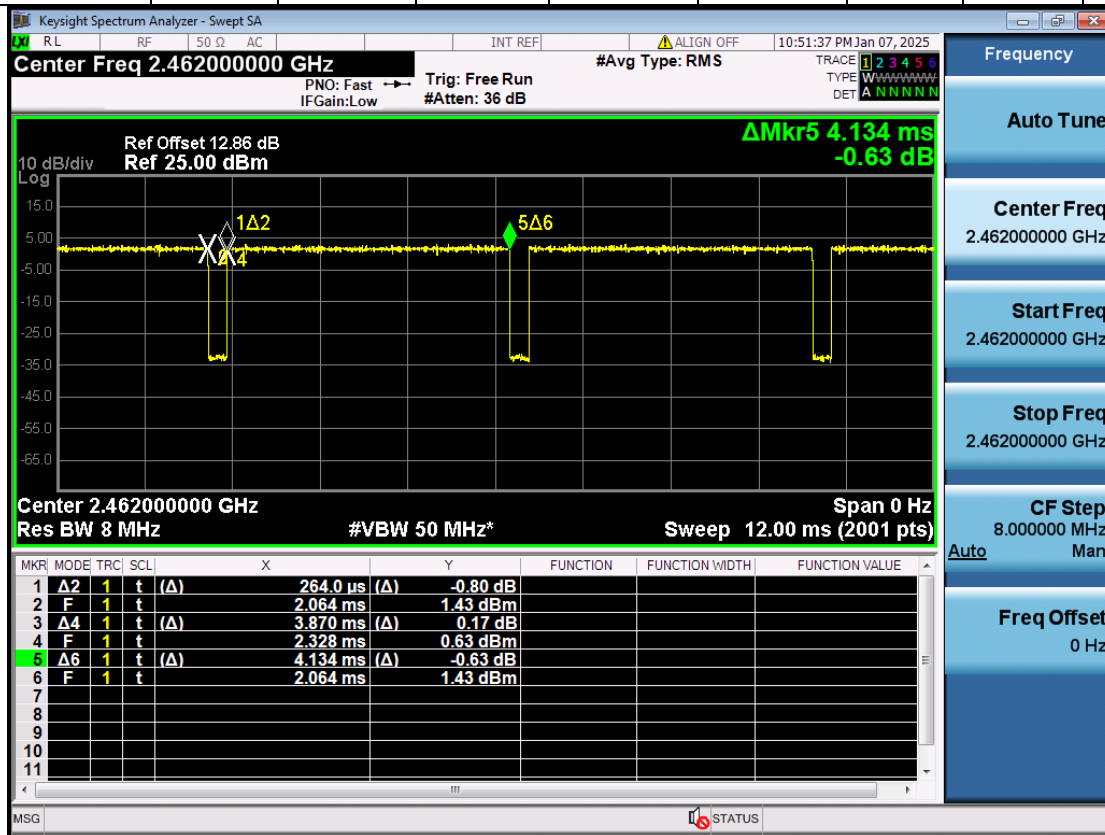
Center Frequency(MHz)	RBW (MHz)	Detector	Tx On (s)	Tx Off (s)	Period (s)	Duty Cycle	Limit	Verdict
2437	8	RMS	0.00387	0.000262	0.004133	0.9365	0.1	Pass





5.3 Duty Cycle(Test Freq:2462MHz, Test Mode:4Mbps)(NTNV)

Center Frequency(MHz)	RBW (MHz)	Detector	Tx On (s)	Tx Off (s)	Period (s)	Duty Cycle	Limit	Verdict
2462	8	RMS	0.00387	0.000264	0.004134	0.9361	0.1	Pass

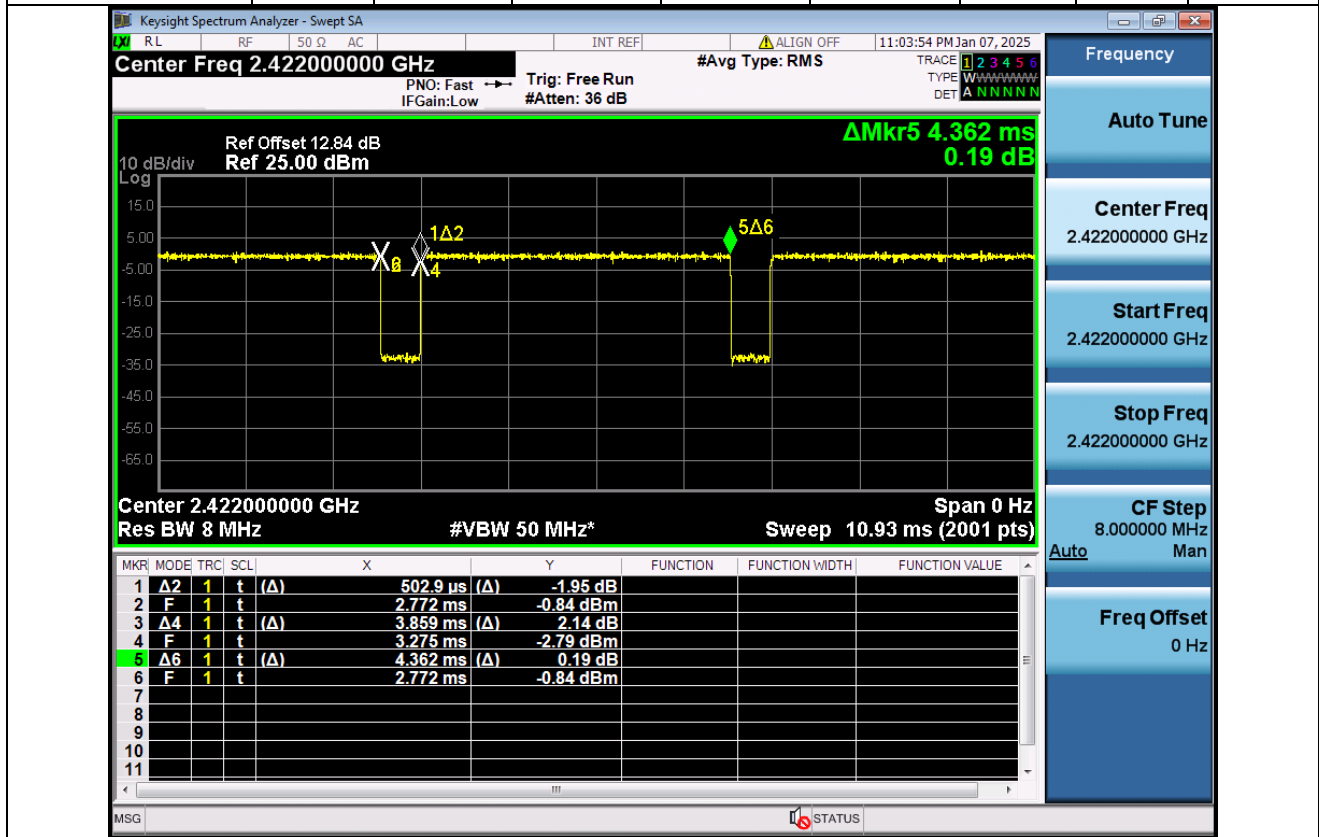




6. 802.11ax_Band2.4G_BW40MHz

6.1 Duty Cycle(Test Freq:2422MHz, Test Mode:8Mbps)(NTNV)

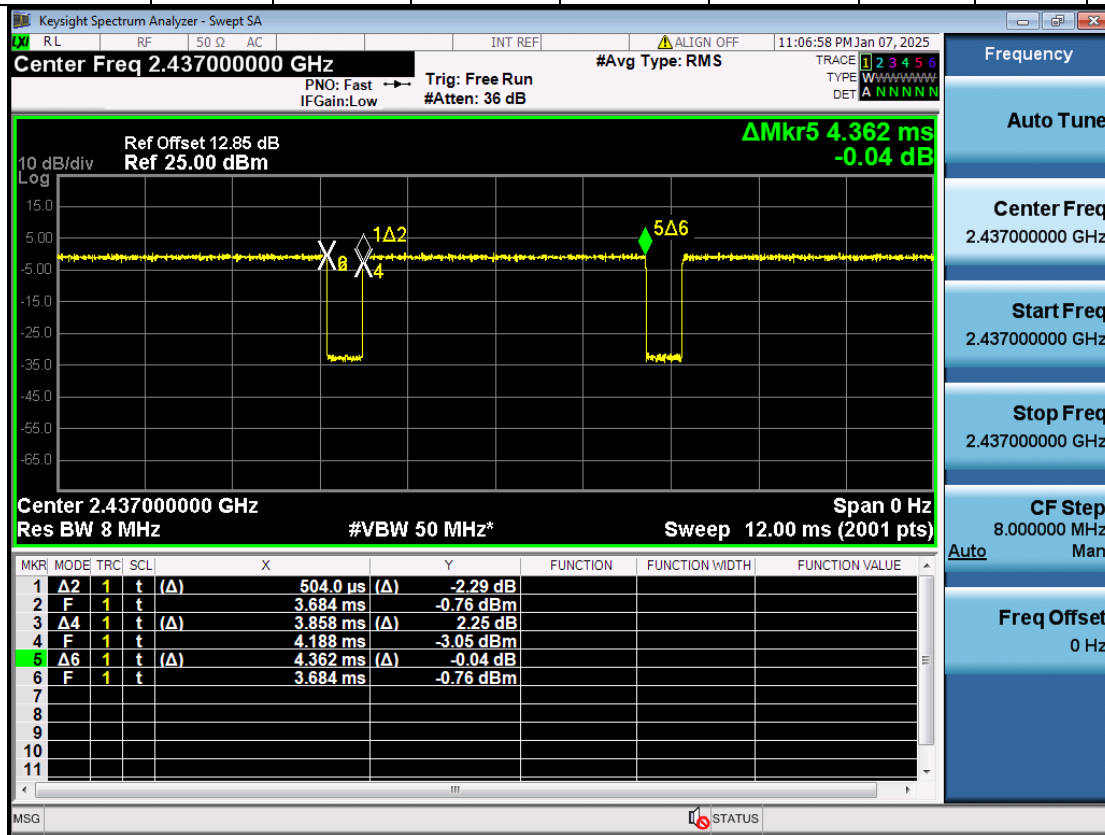
Center Frequency(MHz)	RBW (MHz)	Detector	Tx On (s)	Tx Off (s)	Period (s)	Duty Cycle	Limit	Verdict
2422	8	RMS	0.003859	0.000503	0.004362	0.8847	0.1	Pass





6.2 Duty Cycle(Test Freq:2437MHz, Test Mode:8Mbps)(NTNV)

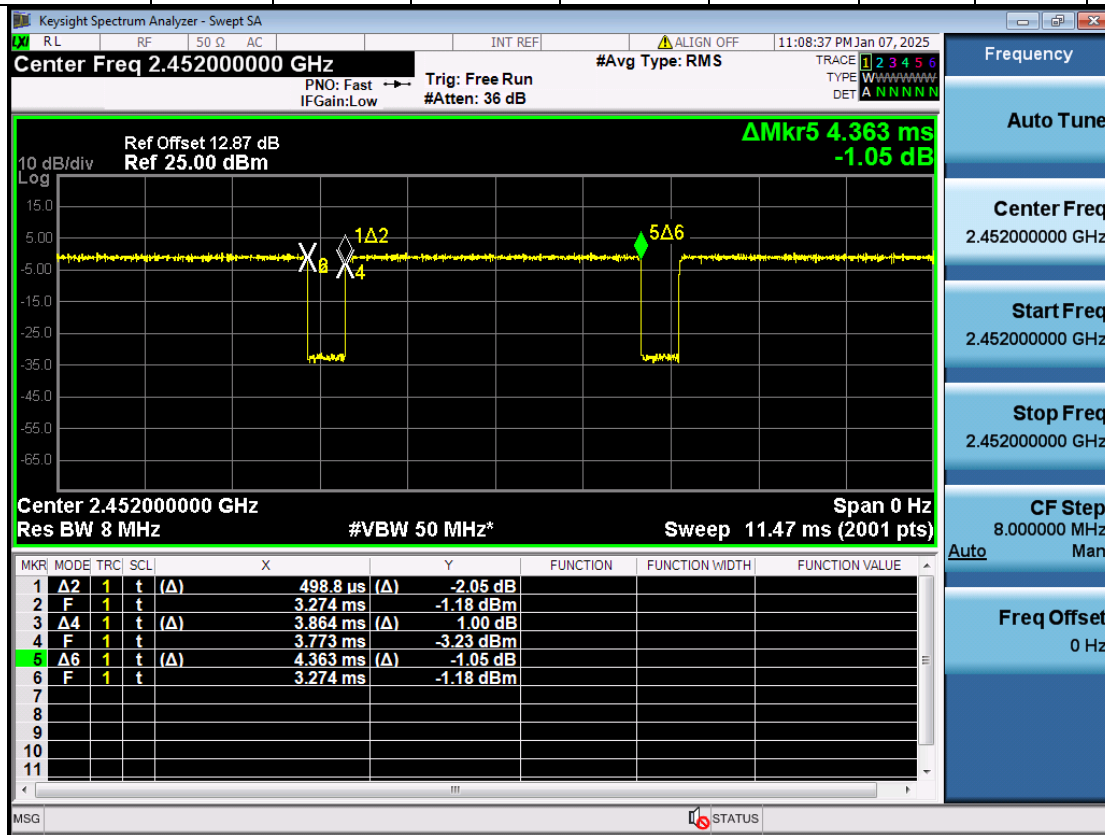
Center Frequency(MHz)	RBW (MHz)	Detector	Tx On (s)	Tx Off (s)	Period (s)	Duty Cycle	Limit	Verdict
2437	8	RMS	0.003858	0.000504	0.004362	0.8845	0.1	Pass





6.3 Duty Cycle(Test Freq:2452MHz, Test Mode:8Mbps)(NTNV)

Center Frequency(MHz)	RBW (MHz)	Detector	Tx On (s)	Tx Off (s)	Period (s)	Duty Cycle	Limit	Verdict
2452	8	RMS	0.003864	0.000499	0.004363	0.8857	0.1	Pass





APPENDIX II - MEASUREMENT PHOTOS

Note: Please see the attached RF_Test Setup photos for FCC ID & IC.

※※※※※END OF THE REPORT※※※※※