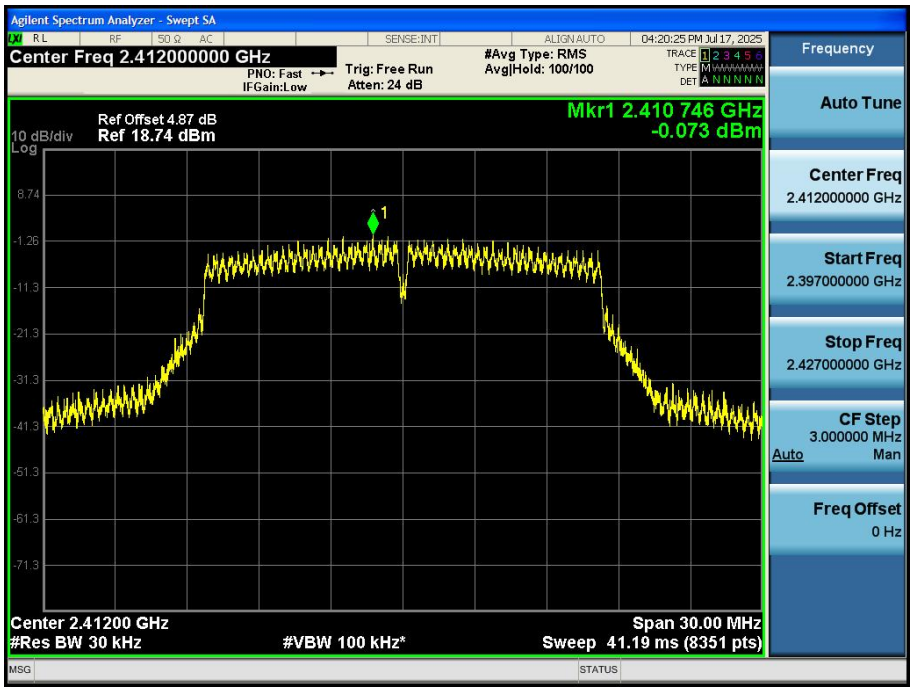
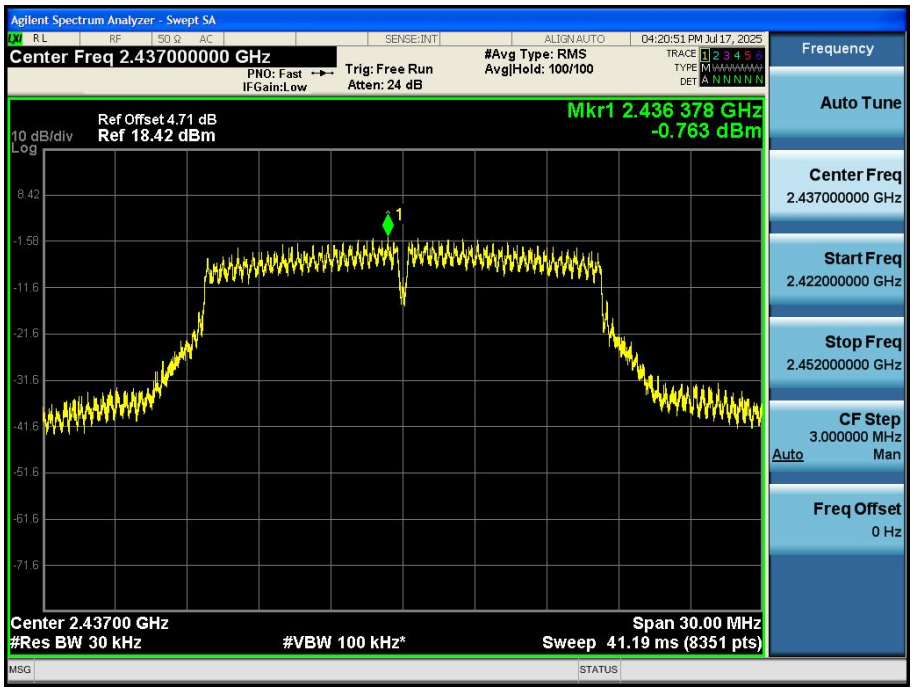
**Power_Spectral_Density_NVNT_ANT1_802_11b_2462**

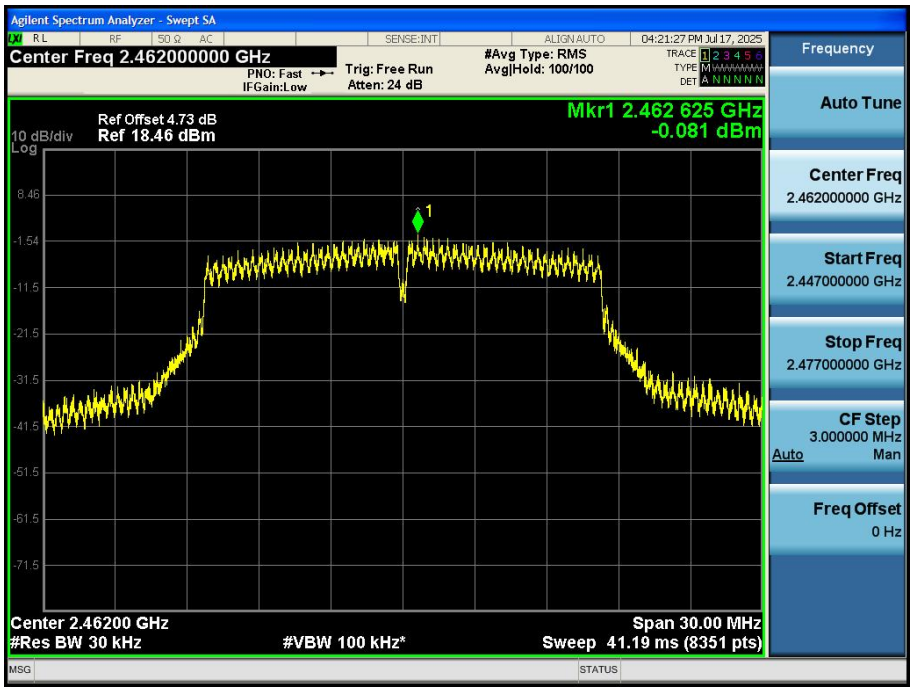
**Power_Spectral_Density_NVNT_ANT1_802_11g_2412**



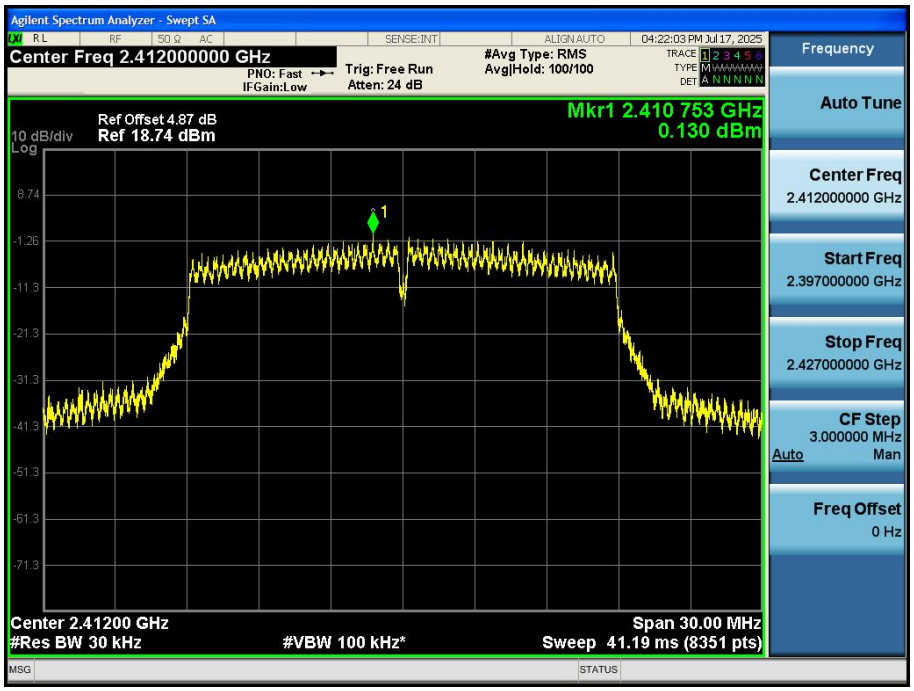

**Power_Spectral_Density_NVNT_ANT1_802_11g_2437**



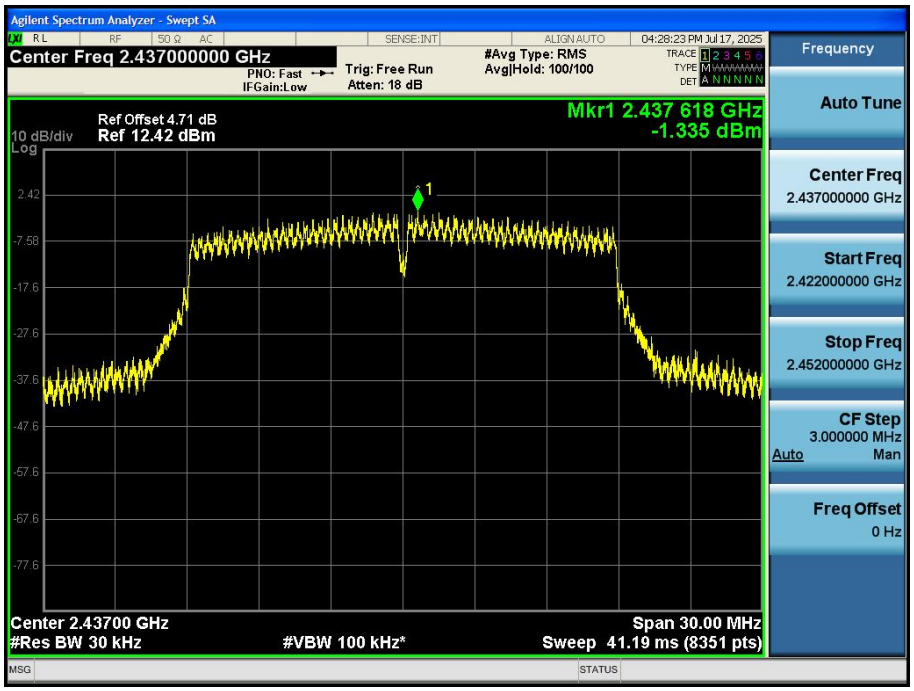

**Power_Spectral_Density_NVNT_ANT1_802_11g_2462**



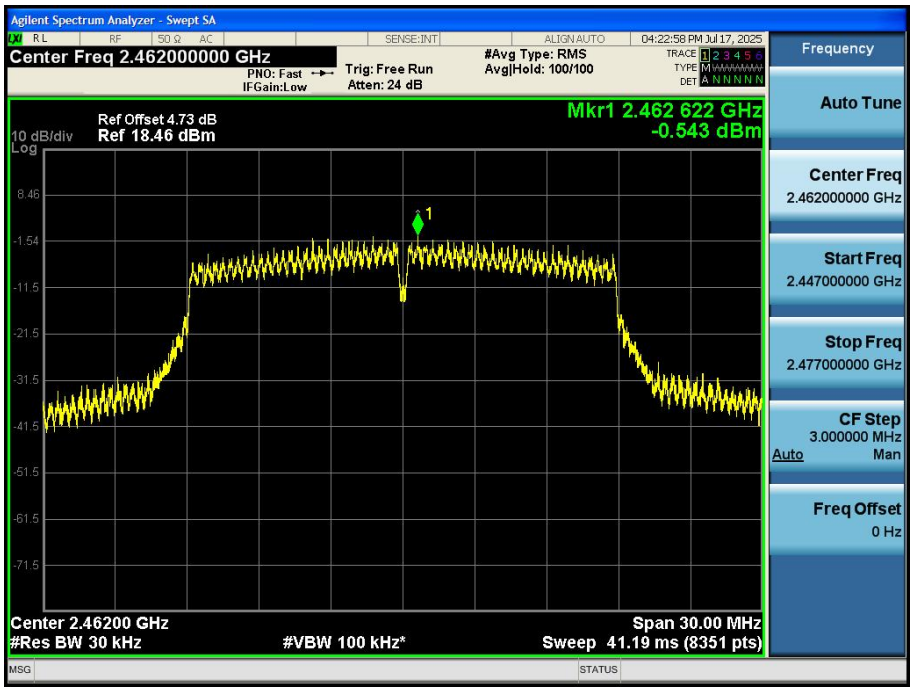

**Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412**




**Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437**




**Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462**



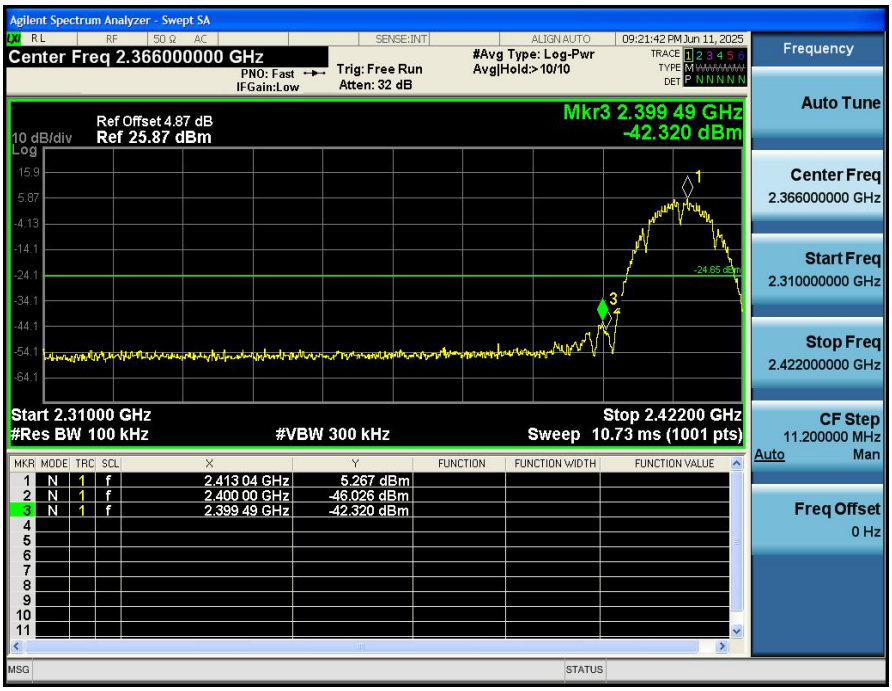
# Appendix F: Bandedge

| Condition | Antenna | Modulation | TX_Frequency (MHz) | Max. Mark_freq(MHz) | Ref_level(dBm) | Spurious level(dBm) | limit(dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| NVNT | ANT1 | 802.11b | 2412.00 | 2399.488 | 5.347 | -42.320 | -24.653 | Pass |
| NVNT | ANT1 | 802.11b | 2462.00 | 2496.496 | 5.215 | -51.576 | -24.785 | Pass |
| NVNT | ANT1 | 802.11g | 2412.00 | 2399.824 | -2.438 | -37.487 | -32.438 | Pass |
| NVNT | ANT1 | 802.11g | 2462.00 | 2483.872 | -1.918 | -51.746 | -31.918 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 2412.00 | 2399.488 | -3.082 | -38.283 | -33.082 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 2462.00 | 2484.400 | -2.927 | -50.964 | -32.927 | Pass |

Remark:1. Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'offset' of the Spectrum Analyzer during the test.

**1_Reference_Level_NVNT_ANT1_802_11b_2412**

**2_Bandedge_NVNT_ANT1_802_11b_2412**




**1_Reference_Level_NVNT_ANT1_802_11b_2462**

**2_Bandedge_NVNT_ANT1_802_11b_2462**

**1_Reference_Level_NVNT_ANT1_802_11g_2412**

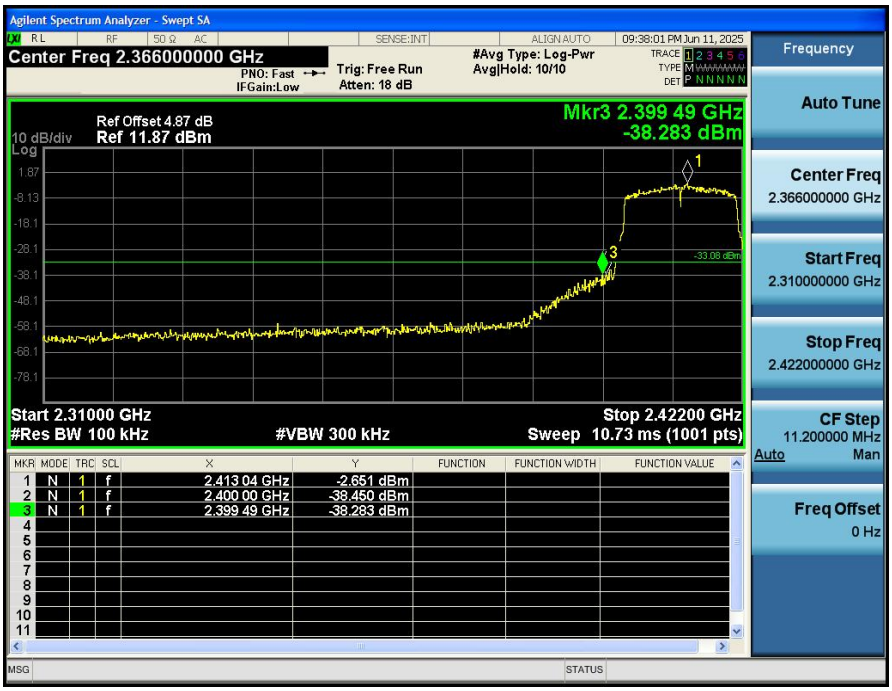
**2_Bandedge_NVNT_ANT1_802_11g_2412**

**1_Reference_Level_NVNT_ANT1_802_11g_2462**

**2_Bandedge_NVNT_ANT1_802_11g_2462**

**1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412**

**2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412**




**1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462**

**2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462**

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.476000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 14 dB
#Avg Type: Log-Pwr
Avg|Hold: 10/10
09:42:52 PM Jun 11, 2025
Ref Offset 4.73 dB
10 dB/div
Ref 7.73 dBm
Log
Mkr3 2.484 400 GHz
-50.964 dBm
-32.93 dBm
Start 2.45200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.50000 GHz
Sweep 4.600 ms (1001 pts)
1 N 1 f 2.462 992 GHz -2.746 dBm
2 N 1 f 2.483 500 GHz -52.135 dBm
3 N 1 f 2.484 400 GHz -50.964 dBm
Frequency
Auto Tune
Center Freq
2.476000000 GHz
Start Freq
2.452000000 GHz
Stop Freq
2.500000000 GHz
CF Step
4.800000 MHz
Auto
Man
Freq Offset
0 Hz

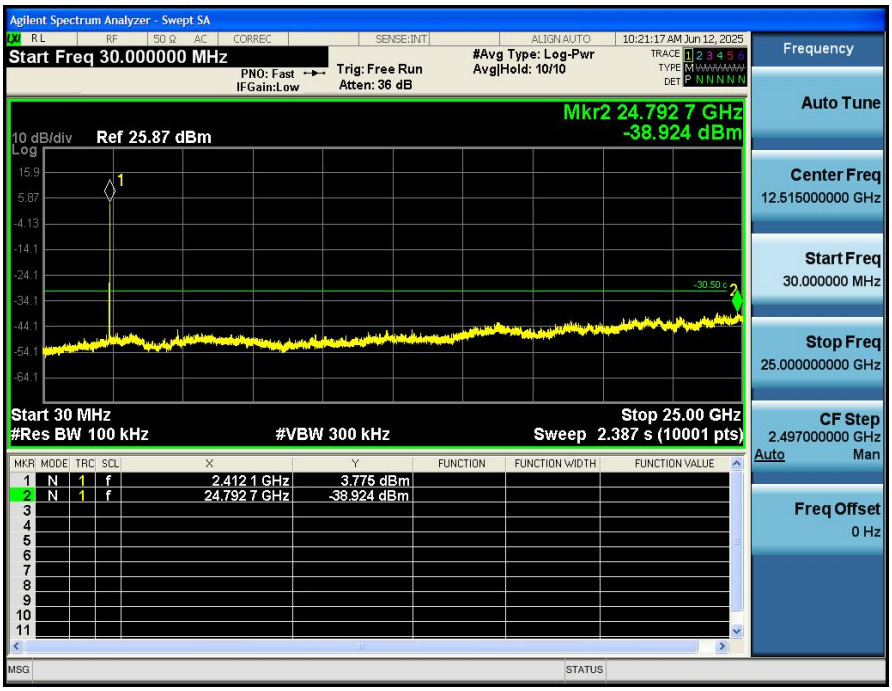
# Appendix G: Spurious Emission

| Condition | Antenna | Modulation | TX_Frequency (MHz) | Max. Mark_freq(MHz) | Ref_level(dBm) | Spurious level(dBm) | limit(dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| NVNT | ANT1 | 802.11b | 2412.00 | 24792.749 | 4.371 | -38.924 | -25.629 | Pass |
| NVNT | ANT1 | 802.11b | 2437.00 | 24792.749 | 5.781 | -38.435 | -24.219 | Pass |
| NVNT | ANT1 | 802.11b | 2462.00 | 24887.635 | 5.107 | -38.127 | -24.893 | Pass |
| NVNT | ANT1 | 802.11g | 2412.00 | 24962.545 | 5.658 | -47.059 | -24.342 | Pass |
| NVNT | ANT1 | 802.11g | 2437.00 | 24862.665 | 4.826 | -45.182 | -25.174 | Pass |
| NVNT | ANT1 | 802.11g | 2462.00 | 24802.737 | 0.045 | -46.669 | -29.955 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 2412.00 | 24892.629 | -0.616 | -45.050 | -30.616 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 2437.00 | 24935.078 | 5.132 | -47.371 | -24.868 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 2462.00 | 24300.840 | 5.022 | -46.400 | -24.978 | Pass |

Note:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

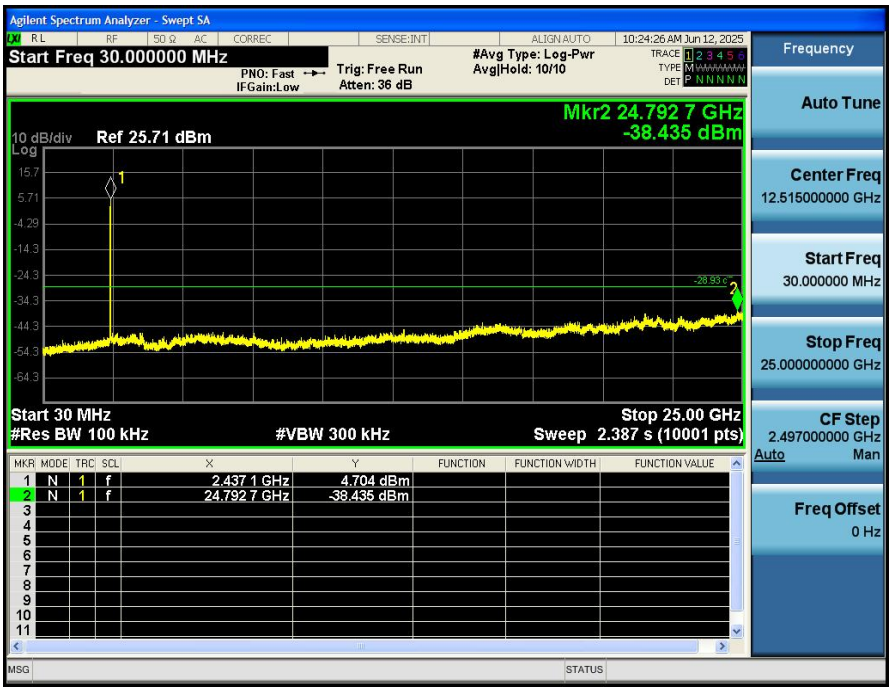
**1_Reference_Level_NVNT_ANT1_802_11b_2412**

**2_Spurious_Emission_NVNT_ANT1_802_11b_2412**

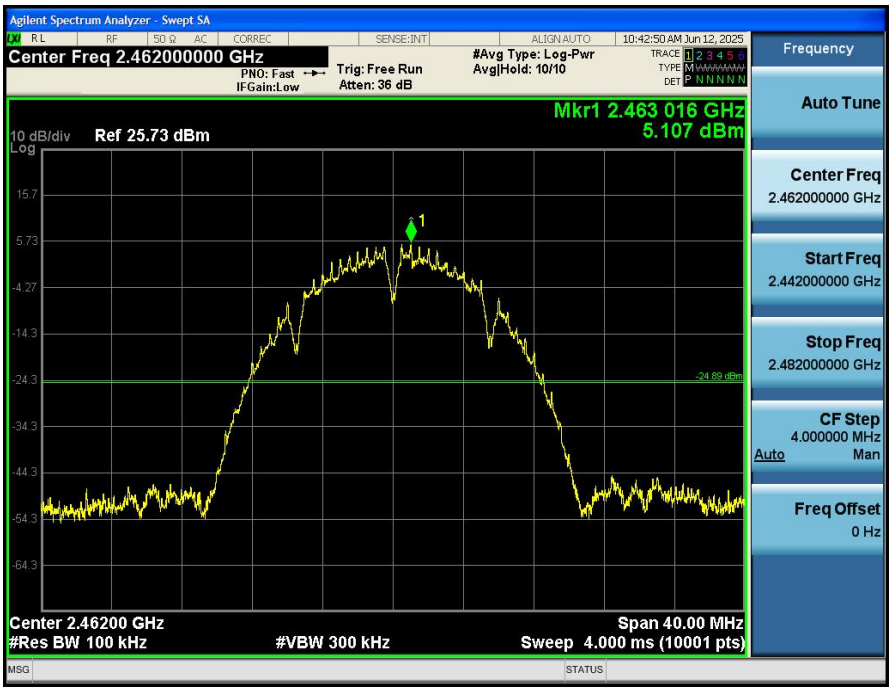



**1_Reference_Level_NVNT_ANT1_802_11b_2437**

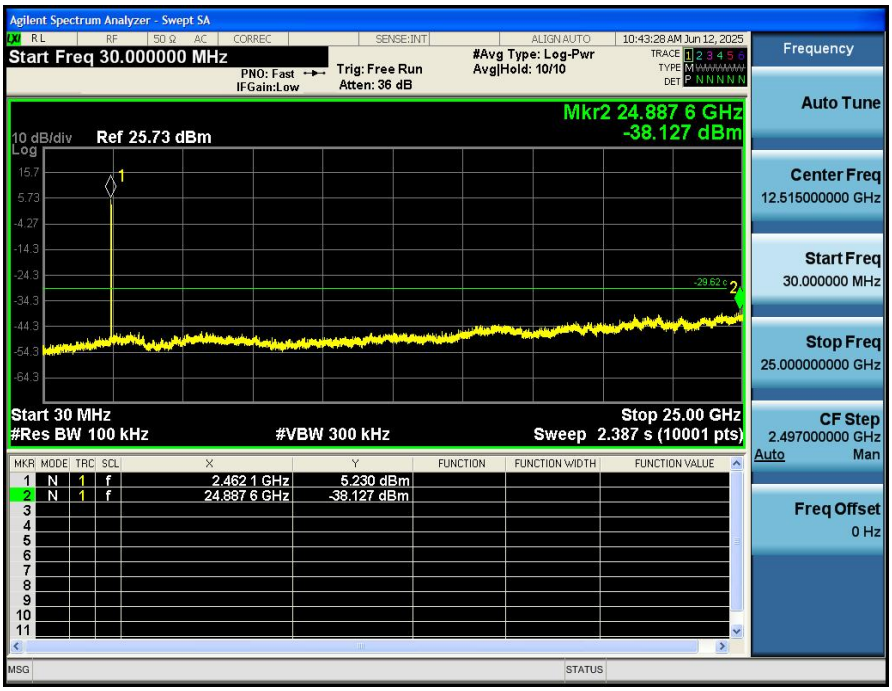
**2_Spurious_Emission_NVNT_ANT1_802_11b_2437**




**1_Reference_Level_NVNT_ANT1_802_11b_2462**

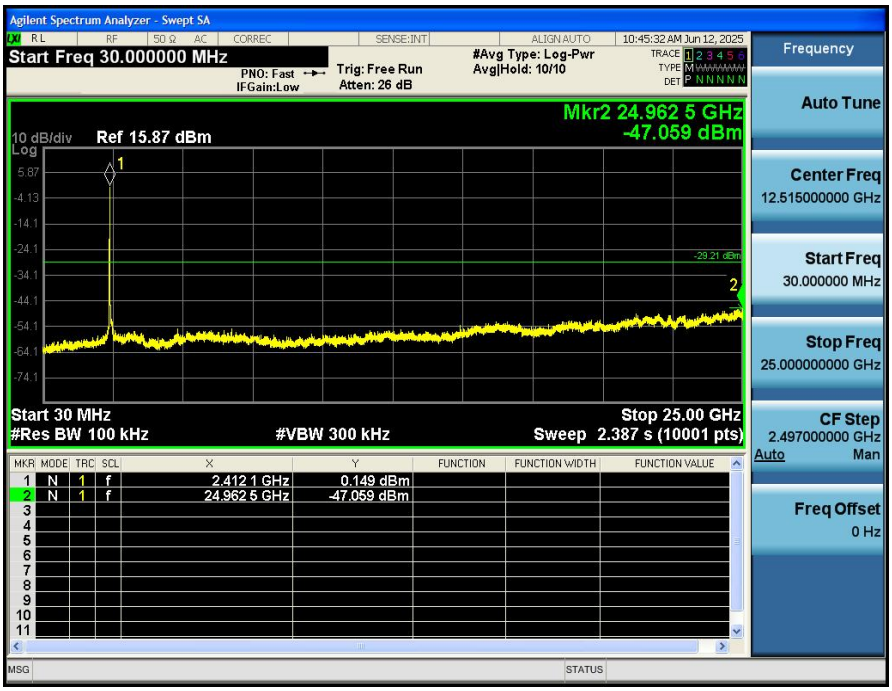



**2_Spurious_Emission_NVNT_ANT1_802_11b_2462**



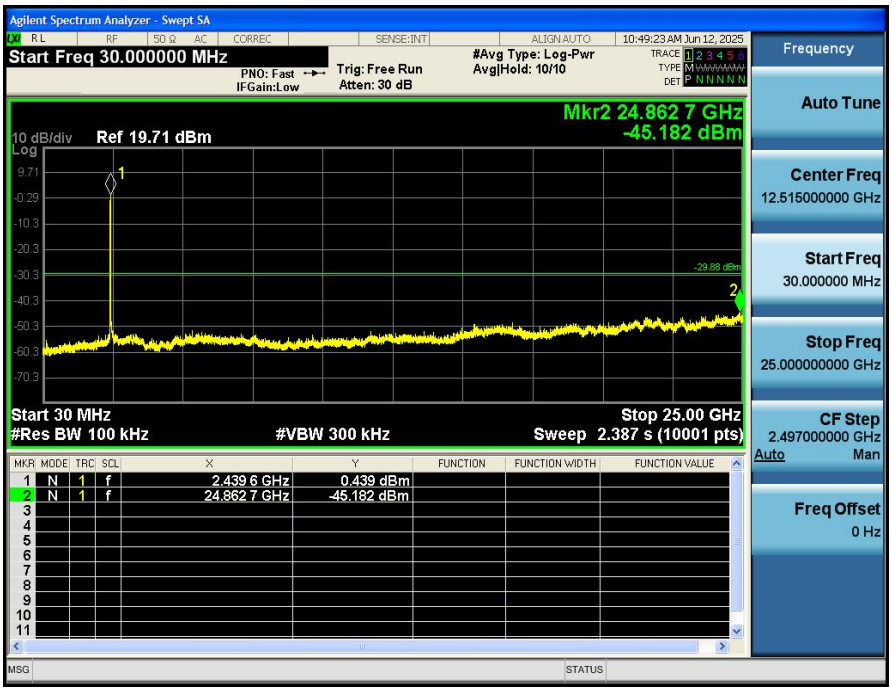

**1_Reference_Level_NVNT_ANT1_802_11g_2412**

**2_Spurious_Emission_NVNT_ANT1_802_11g_2412**



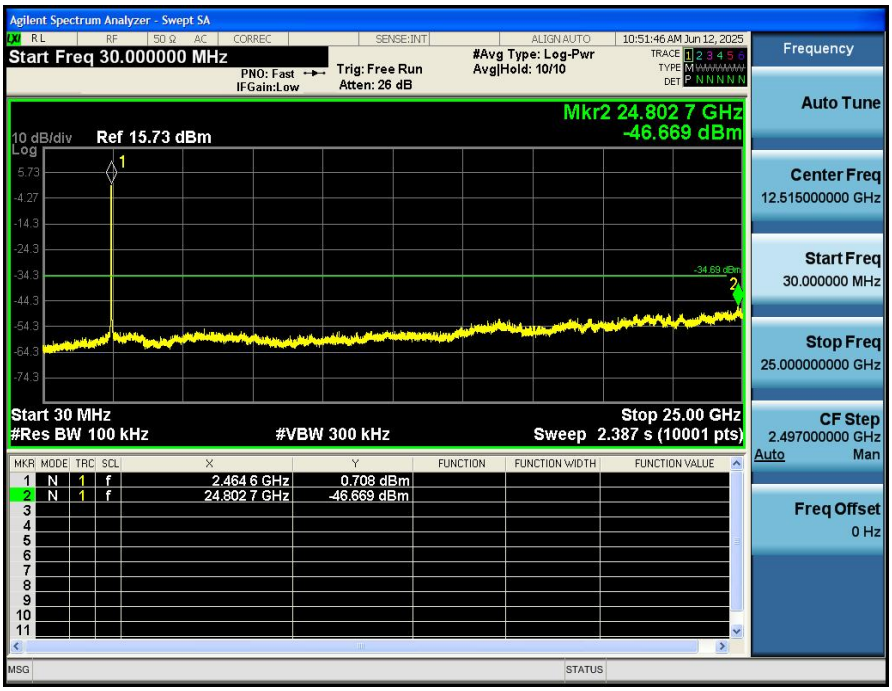

1_Reference_Level_NVNT_ANT1_802_11g_2437

2_Spurious_Emission_NVNT_ANT1_802_11g_2437



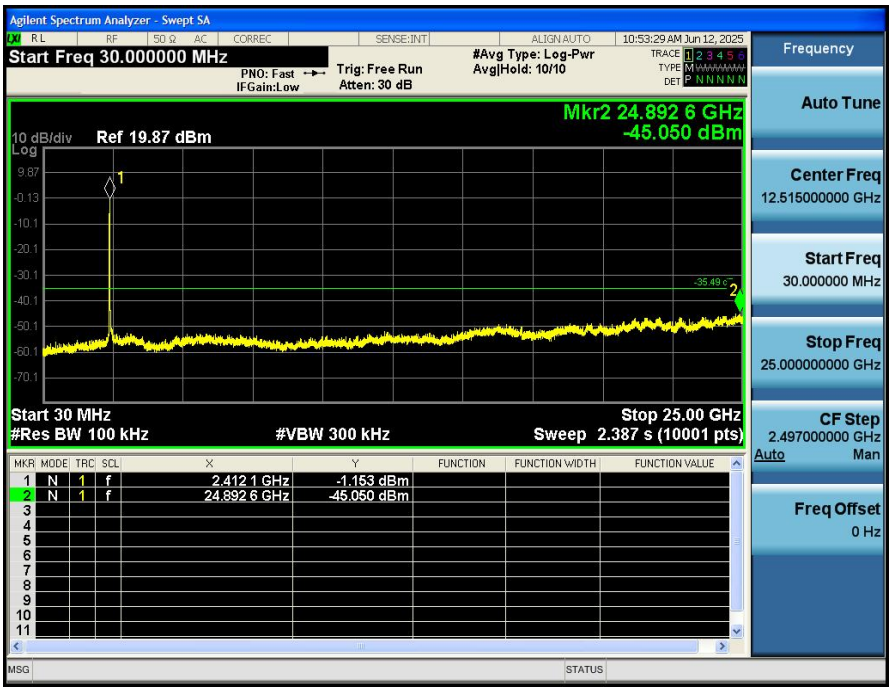

1_Reference_Level_NVNT_ANT1_802_11g_2462

2_Spurious_Emission_NVNT_ANT1_802_11g_2462



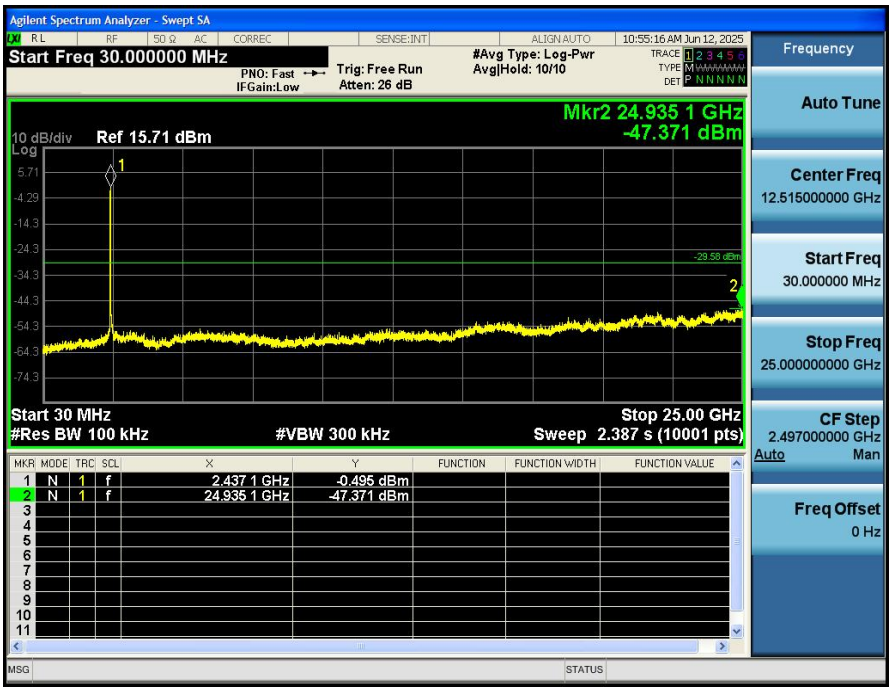

1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412

2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412



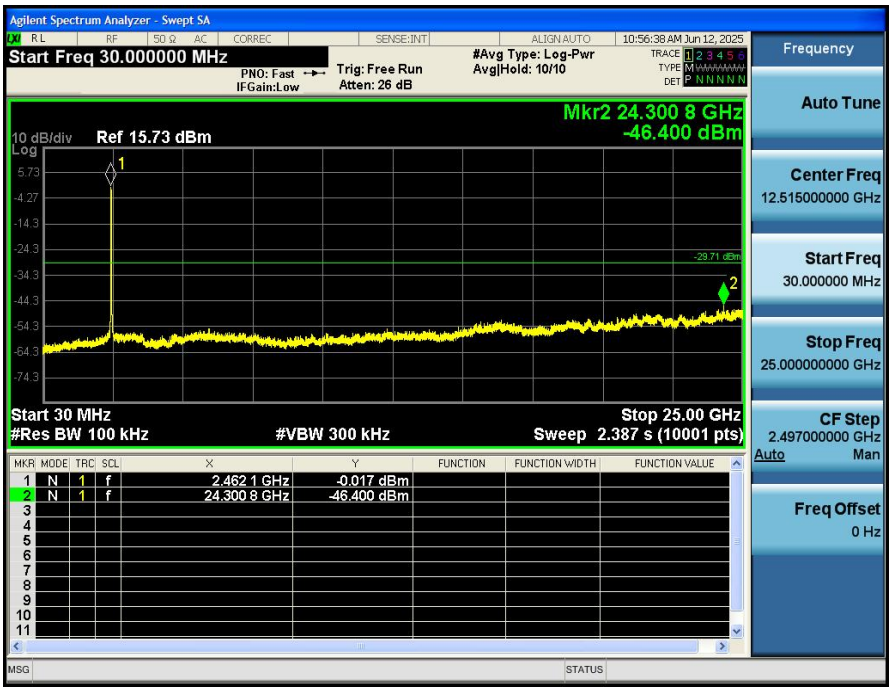

**1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2437**

**2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2437**




**1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462**

**2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462**


Agilent Spectrum Analyzer - Swept SA
Start Freq 30.000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 26 dB
#Avg Type: Log-Pwr
Avg|Hold: 10/10
10:56:38 AM Jun 12, 2025
Mkr2 24.300 8 GHz
-46.400 dBm
10 dB/div
Ref 15.73 dBm
Log
-29.71 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.00 GHz
Sweep 2.387 s (10001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.462 1 GHz -0.017 dBm
2 N 1 f 24.300 8 GHz -46.400 dBm
Frequency
Auto Tune
Center Freq
12.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
25.000000000 GHz
CF Step
2.497000000 GHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

**---END---**