



Appendix B

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: LED Down Light

Test Model: US-DL6C-1

Environmental Conditions

| | |
|--------------------|-----------|
| Temperature: | 23.8° C |
| Relative Humidity: | 52.1% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: | Taylor Hu |
| Supervised by: | Li Huan |





B.1 -6dB Bandwidth

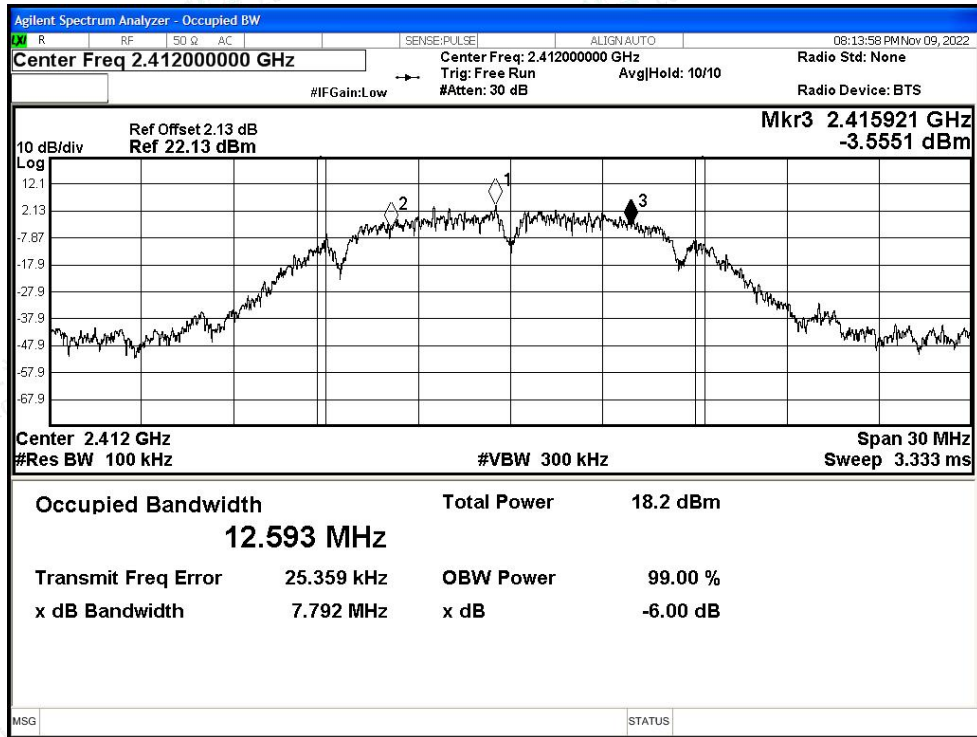
| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT | b | 2412 | Ant1 | 7.792 | ≥ 0.5 | Pass |
| NVNT | b | 2437 | Ant1 | 9.116 | ≥ 0.5 | Pass |
| NVNT | b | 2462 | Ant1 | 8.631 | ≥ 0.5 | Pass |
| NVNT | g | 2412 | Ant1 | 16.305 | ≥ 0.5 | Pass |
| NVNT | g | 2437 | Ant1 | 16.032 | ≥ 0.5 | Pass |
| NVNT | g | 2462 | Ant1 | 15.308 | ≥ 0.5 | Pass |
| NVNT | n20 | 2412 | Ant1 | 16.379 | ≥ 0.5 | Pass |
| NVNT | n20 | 2437 | Ant1 | 12.792 | ≥ 0.5 | Pass |
| NVNT | n20 | 2462 | Ant1 | 17.374 | ≥ 0.5 | Pass |



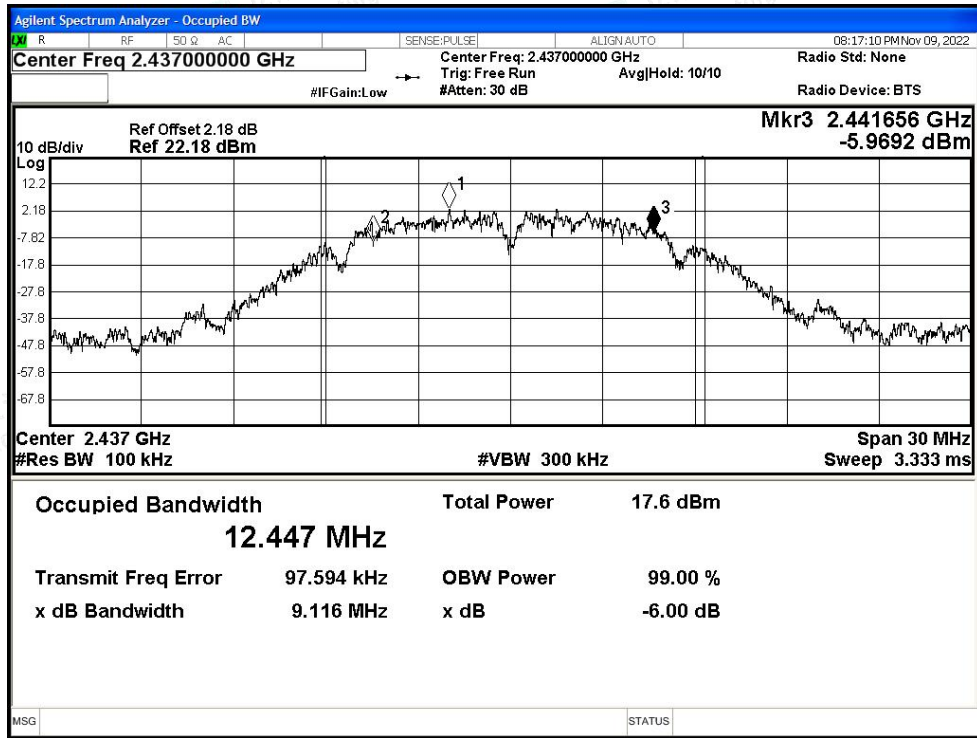


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

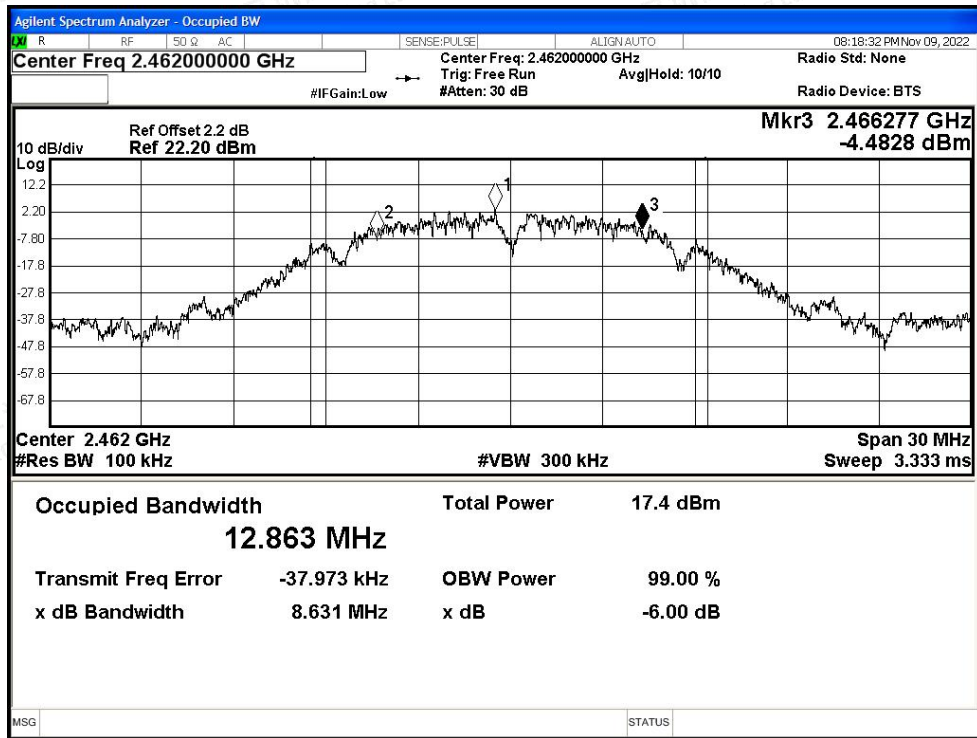


-6dB Bandwidth NVNT b 2437MHz Ant1

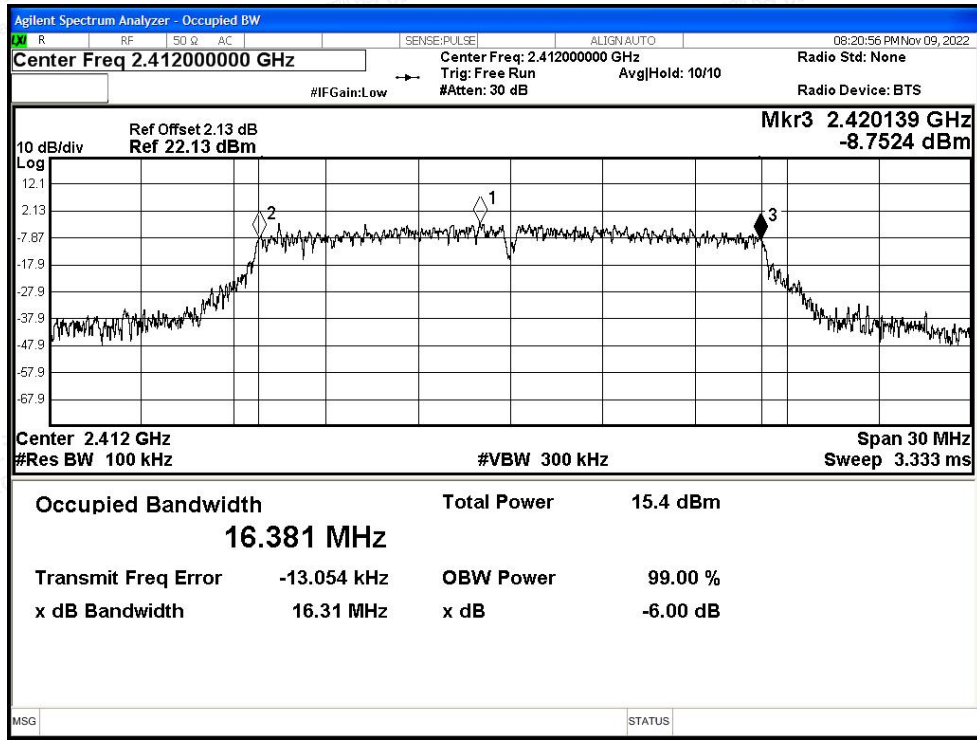




-6dB Bandwidth NVNT b 2462MHz Ant1

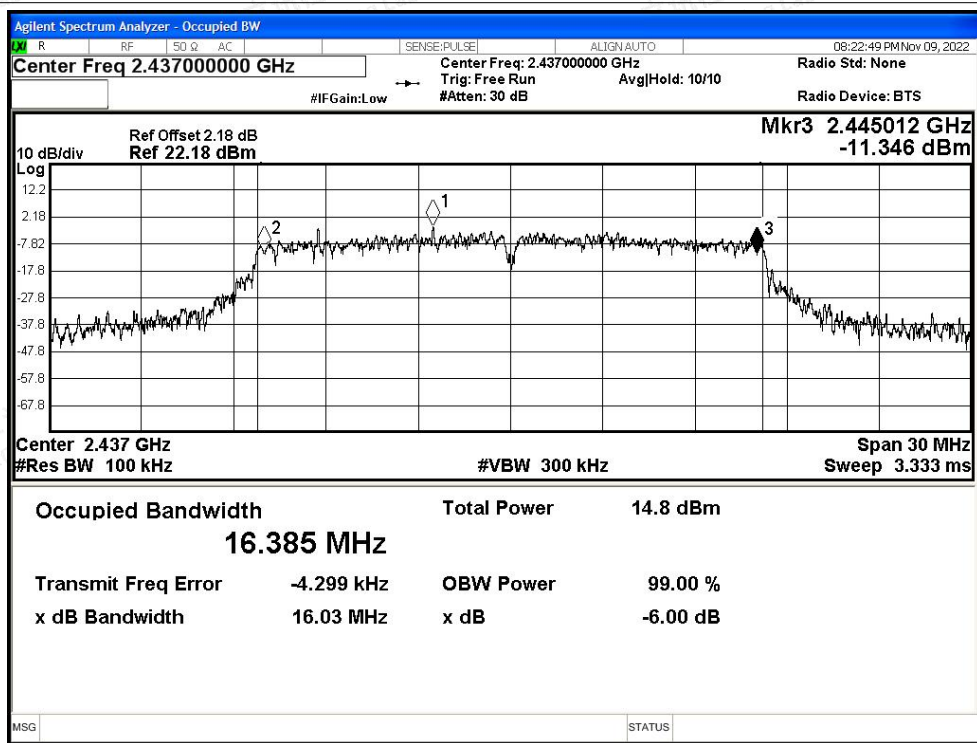


-6dB Bandwidth NVNT g 2412MHz Ant1

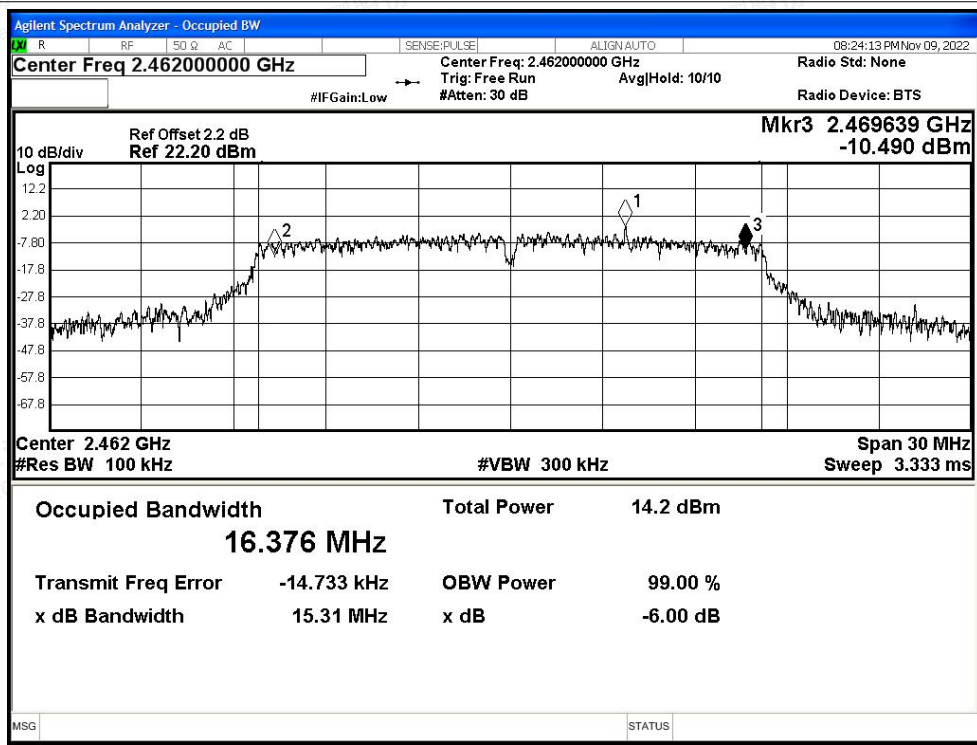




-6dB Bandwidth NVNT g 2437MHz Ant1

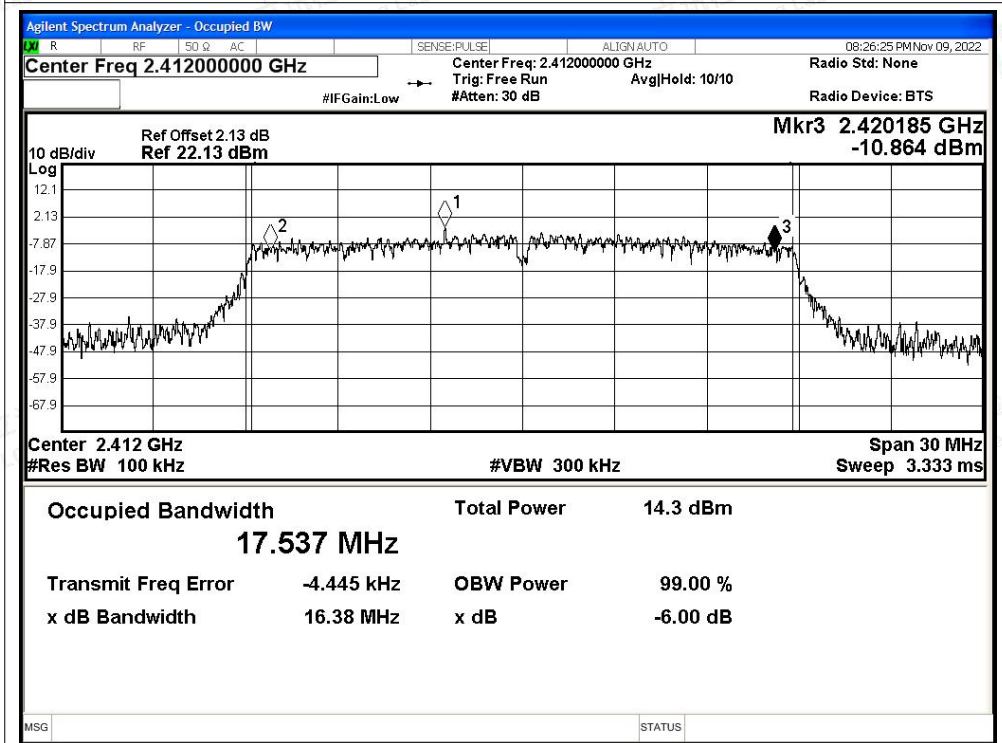


-6dB Bandwidth NVNT g 2462MHz Ant1

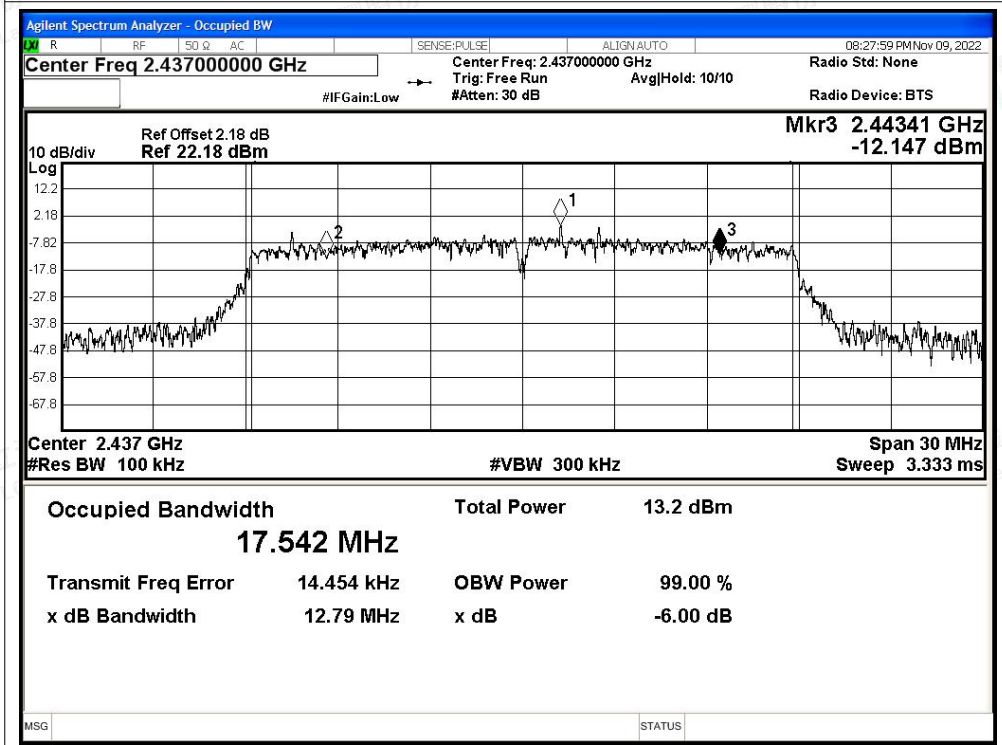


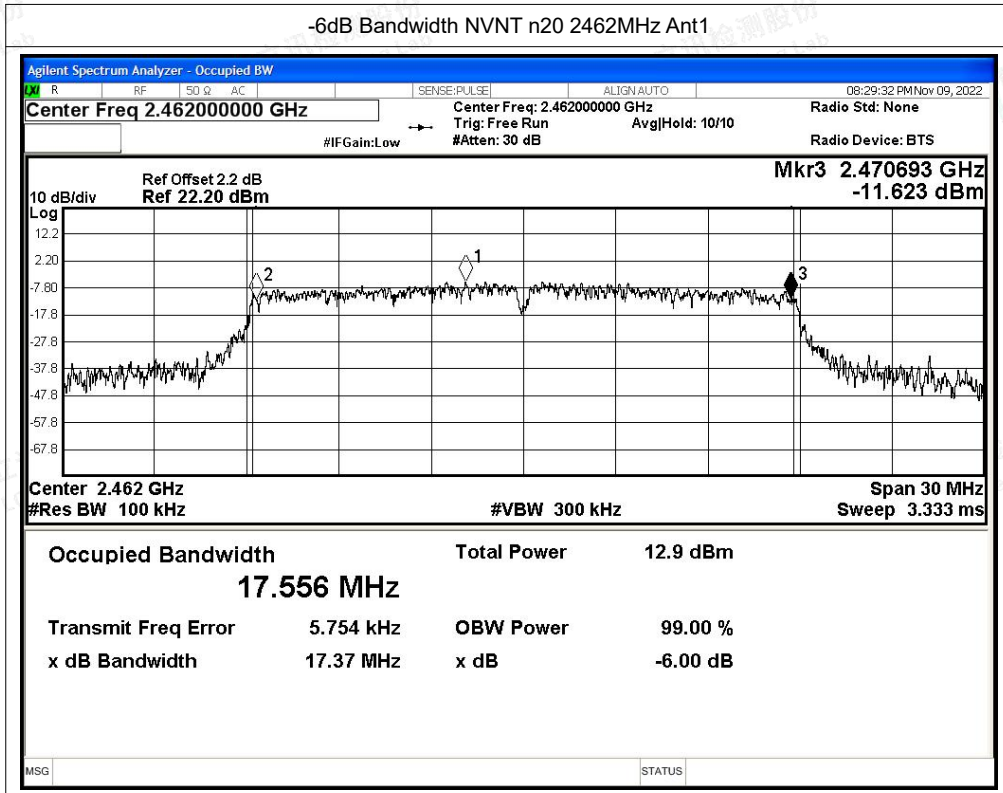


-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1







B.2 Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-------------|---------|
| NVNT | b | 2412 | Ant1 | 14.78 | 30 | Pass |
| NVNT | b | 2437 | Ant1 | 13.87 | 30 | Pass |
| NVNT | b | 2462 | Ant1 | 13.85 | 30 | Pass |
| NVNT | g | 2412 | Ant1 | 13.86 | 30 | Pass |
| NVNT | g | 2437 | Ant1 | 13.14 | 30 | Pass |
| NVNT | g | 2462 | Ant1 | 12.91 | 30 | Pass |
| NVNT | n20 | 2412 | Ant1 | 12.98 | 30 | Pass |
| NVNT | n20 | 2437 | Ant1 | 11.94 | 30 | Pass |
| NVNT | n20 | 2462 | Ant1 | 13.49 | 30 | Pass |





B.3 Maximum Power Spectral Density Level

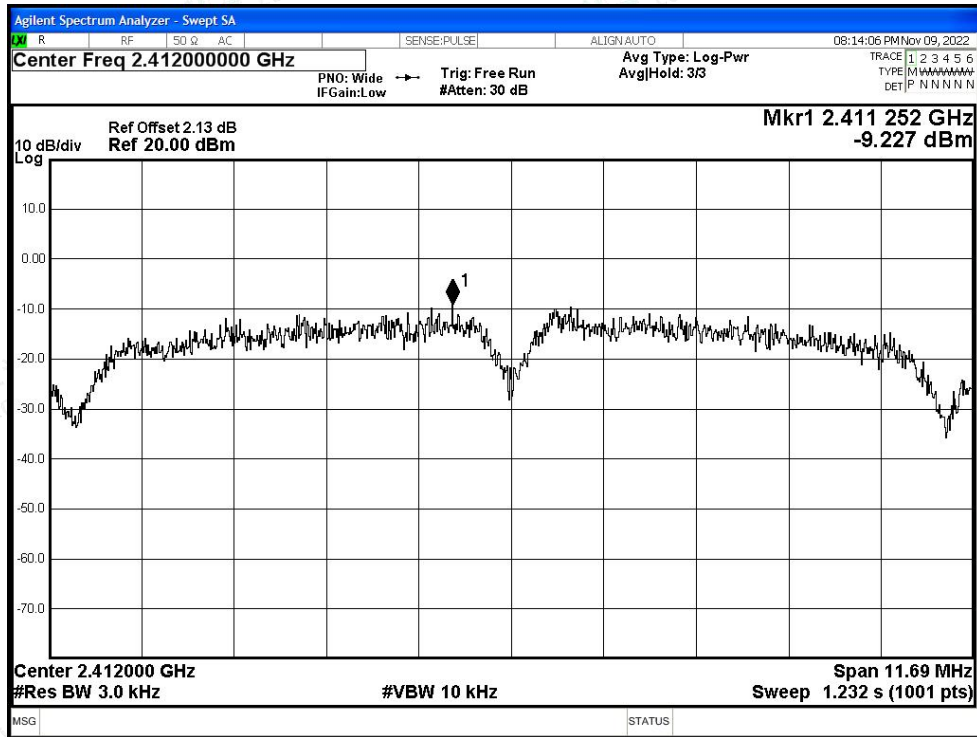
| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|--------------------------|------------------|---------|
| NVNT | b | 2412 | Ant1 | -9.23 | 8 | Pass |
| NVNT | b | 2437 | Ant1 | -10.34 | 8 | Pass |
| NVNT | b | 2462 | Ant1 | -10.91 | 8 | Pass |
| NVNT | g | 2412 | Ant1 | -13.49 | 8 | Pass |
| NVNT | g | 2437 | Ant1 | -14.63 | 8 | Pass |
| NVNT | g | 2462 | Ant1 | -13.92 | 8 | Pass |
| NVNT | n20 | 2412 | Ant1 | -13.46 | 8 | Pass |
| NVNT | n20 | 2437 | Ant1 | -15.93 | 8 | Pass |
| NVNT | n20 | 2462 | Ant1 | -16.34 | 8 | Pass |



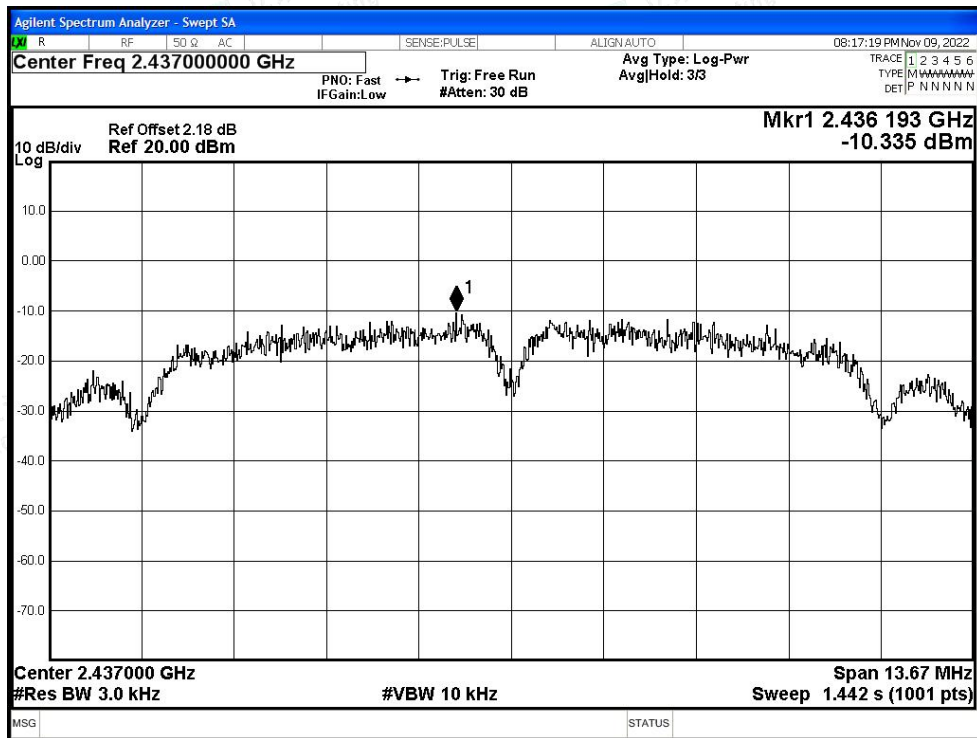


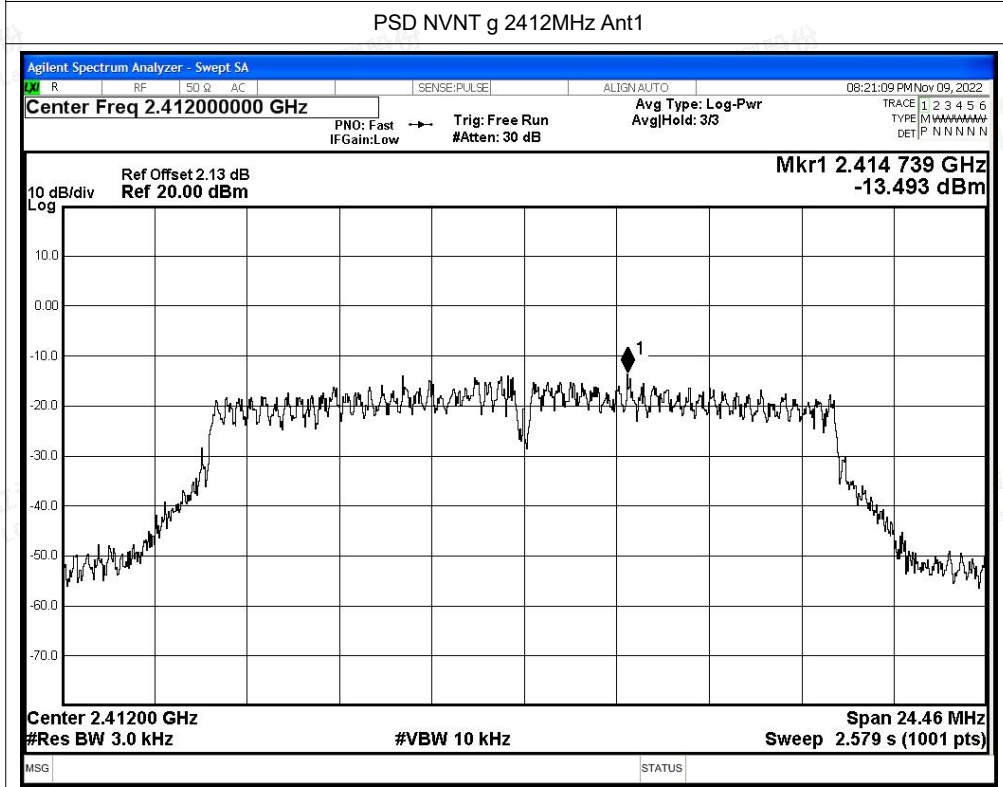
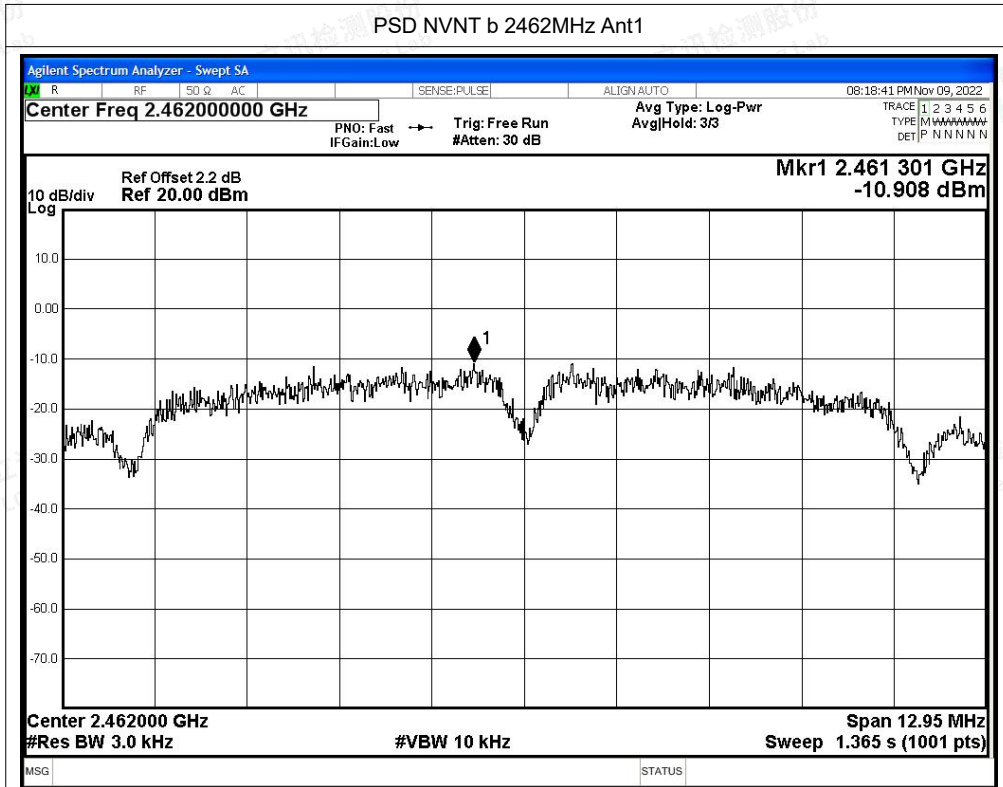
Test Graphs

PSD NVNT b 2412MHz Ant1



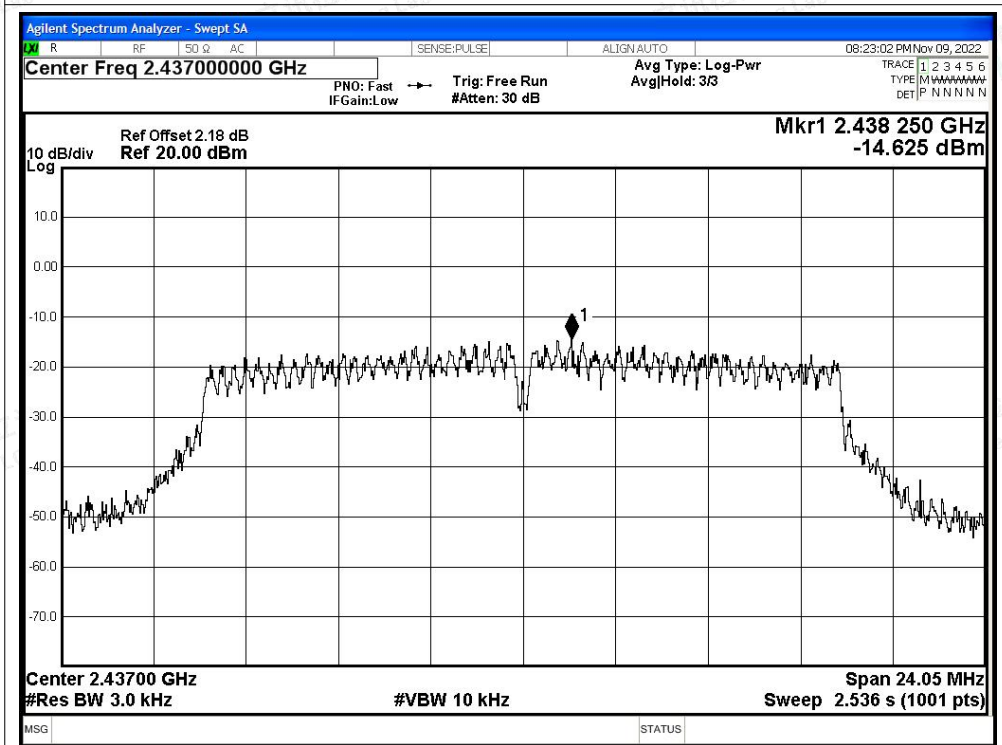
PSD NVNT b 2437MHz Ant1



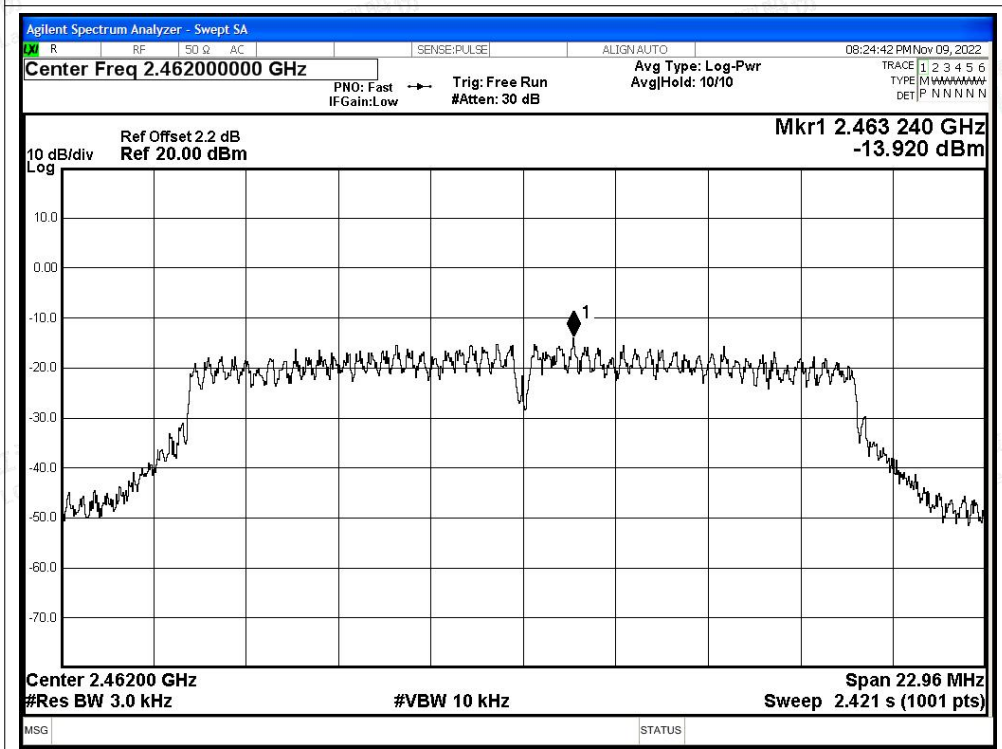


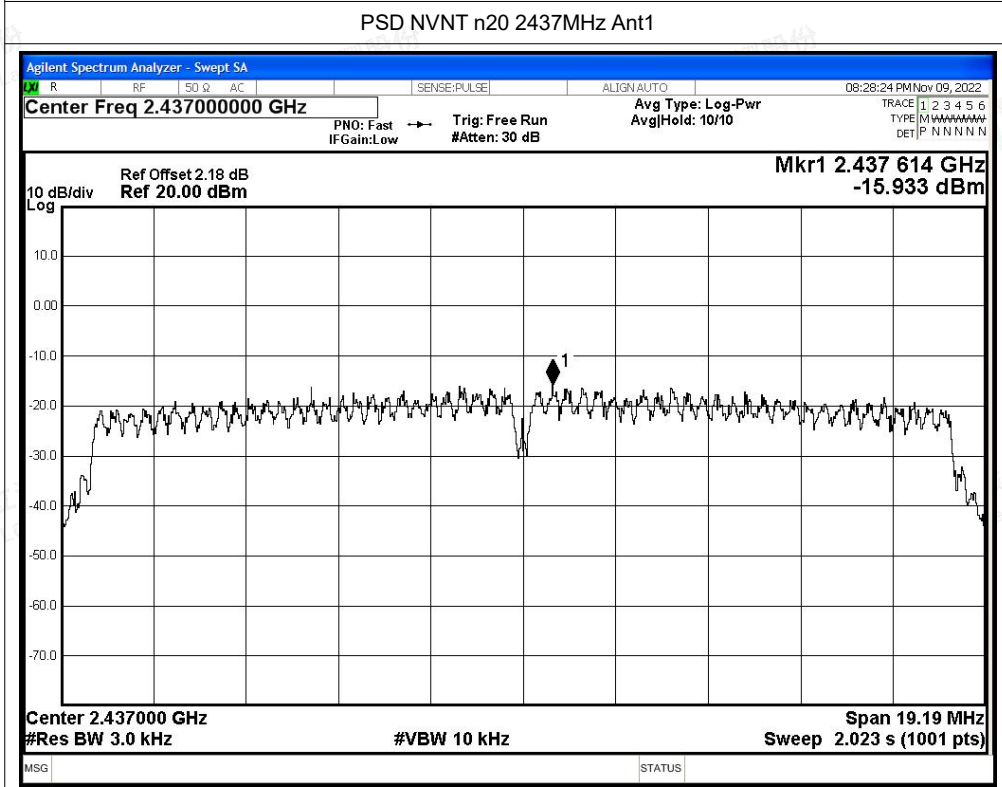
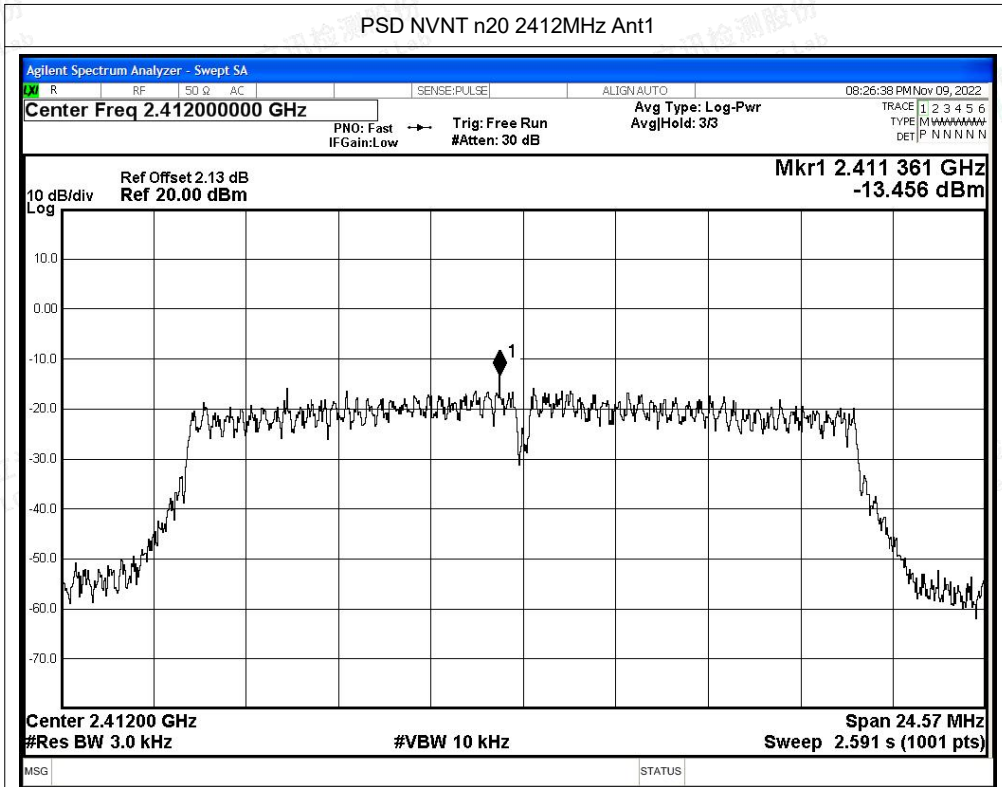


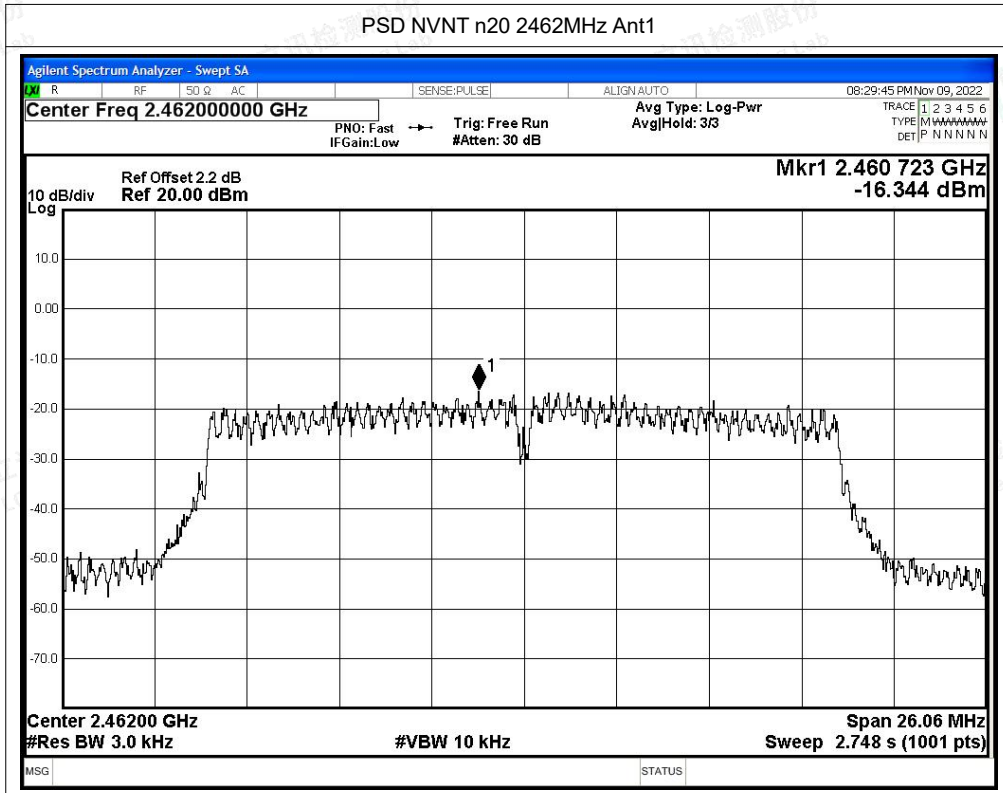
PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1









B.4 Band Edge

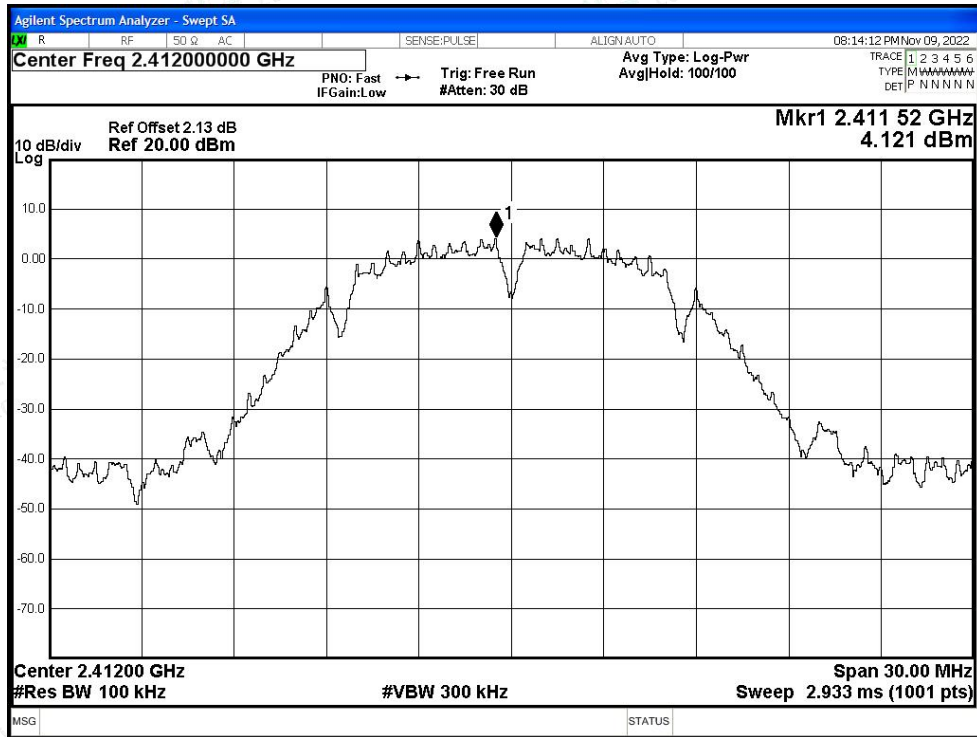
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT | b | 2412 | Ant1 | -43.57 | -20 | Pass |
| NVNT | b | 2462 | Ant1 | -56.4 | -20 | Pass |
| NVNT | g | 2412 | Ant1 | -33.89 | -20 | Pass |
| NVNT | g | 2462 | Ant1 | -46.58 | -20 | Pass |
| NVNT | n20 | 2412 | Ant1 | -35.42 | -20 | Pass |
| NVNT | n20 | 2462 | Ant1 | -45.27 | -20 | Pass |



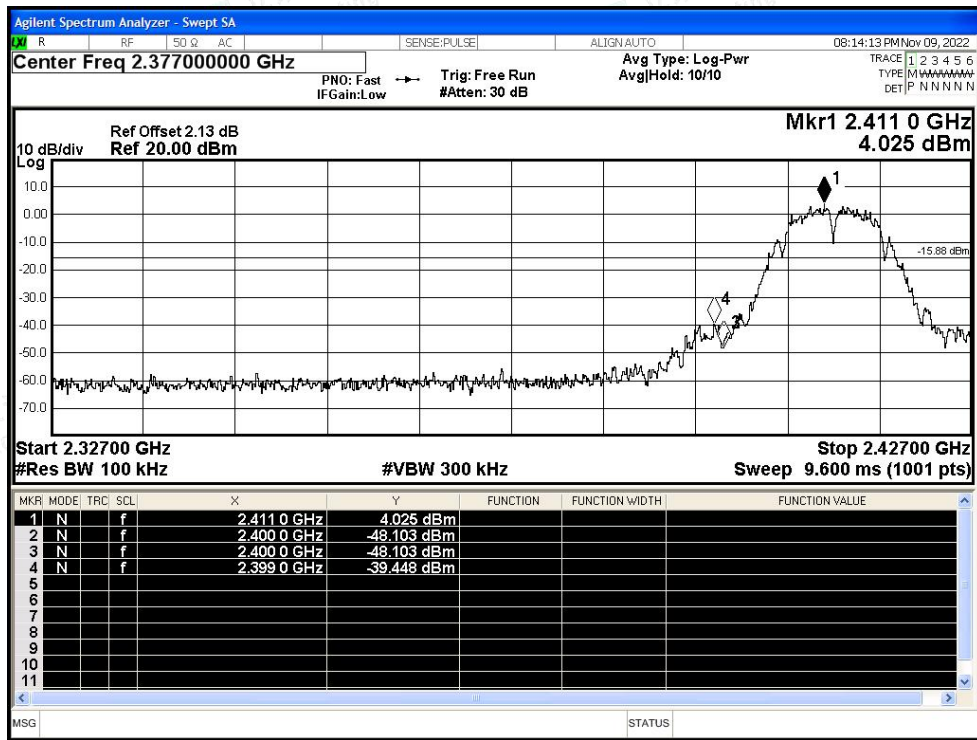


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref

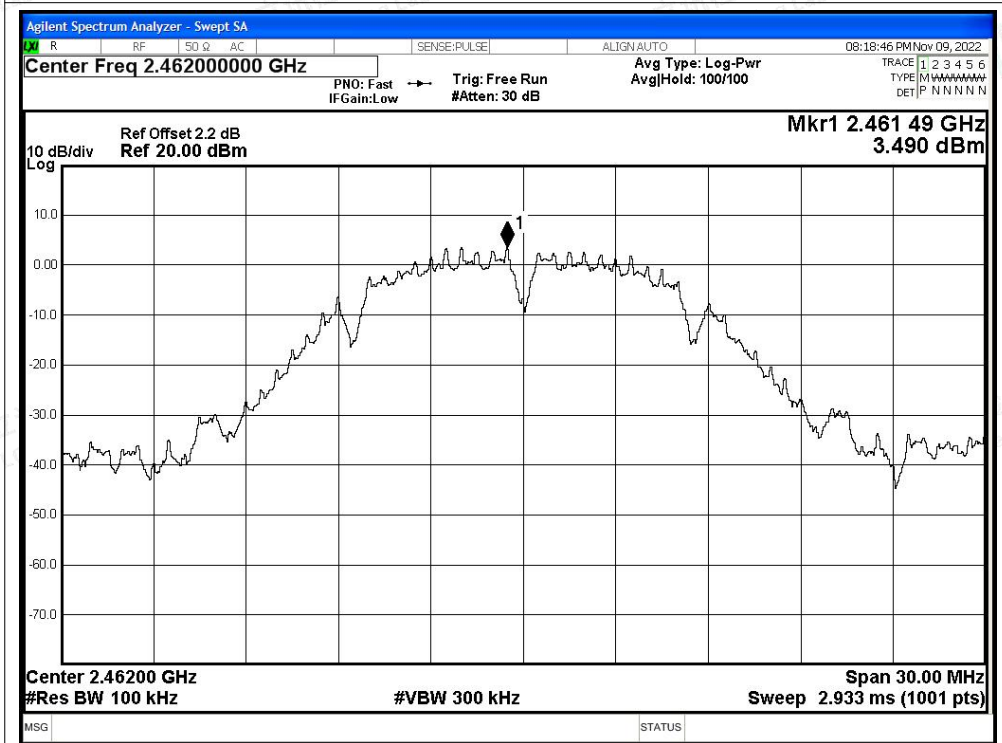


Band Edge NVNT b 2412MHz Ant1 Emission

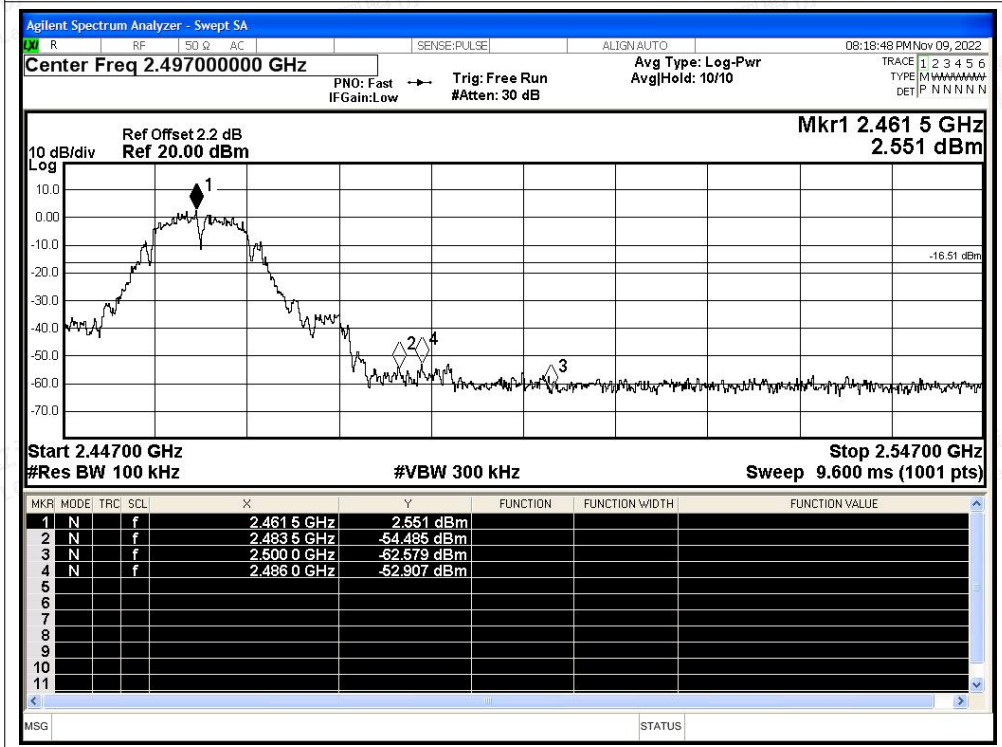




Band Edge NVNT b 2462MHz Ant1 Ref

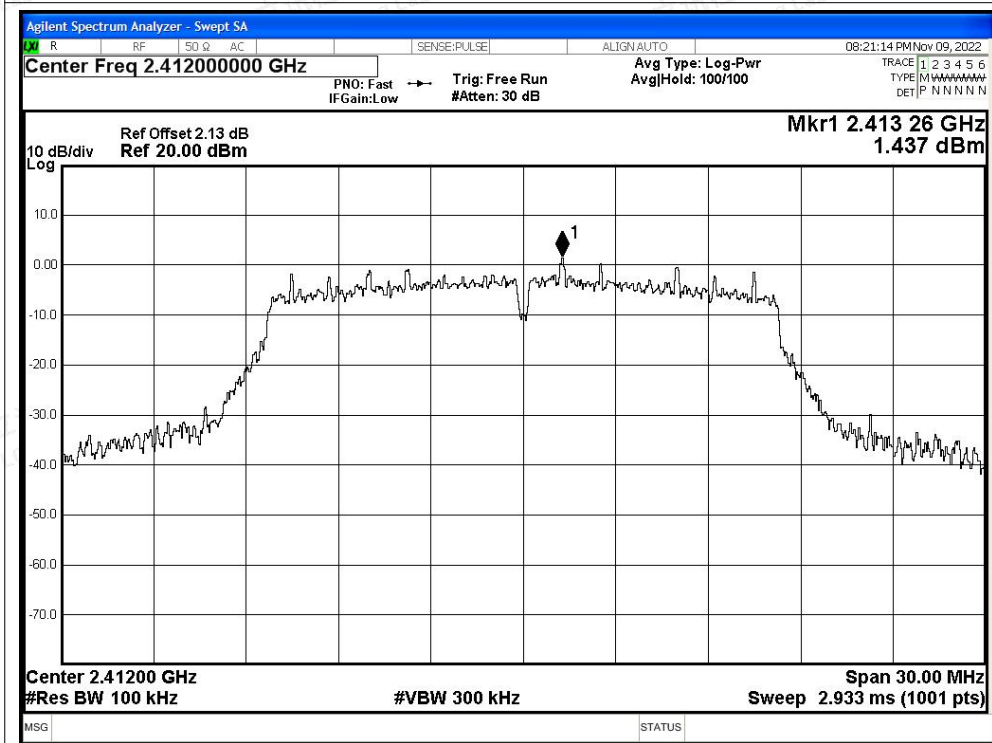


Band Edge NVNT b 2462MHz Ant1 Emission

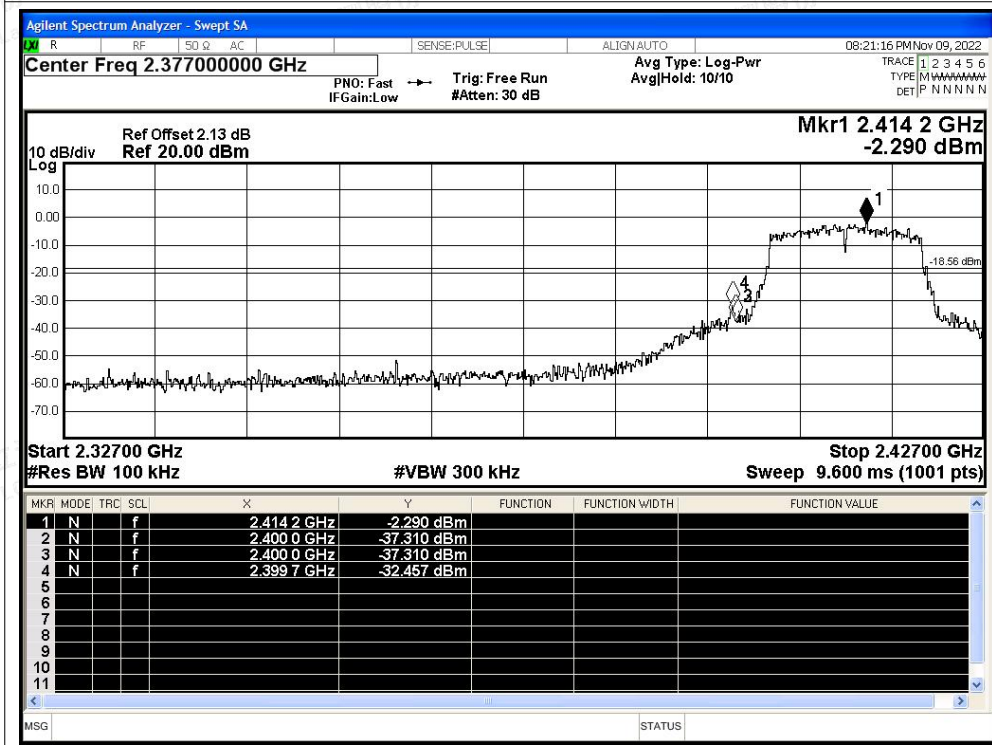




Band Edge NVNT g 2412MHz Ant1 Ref

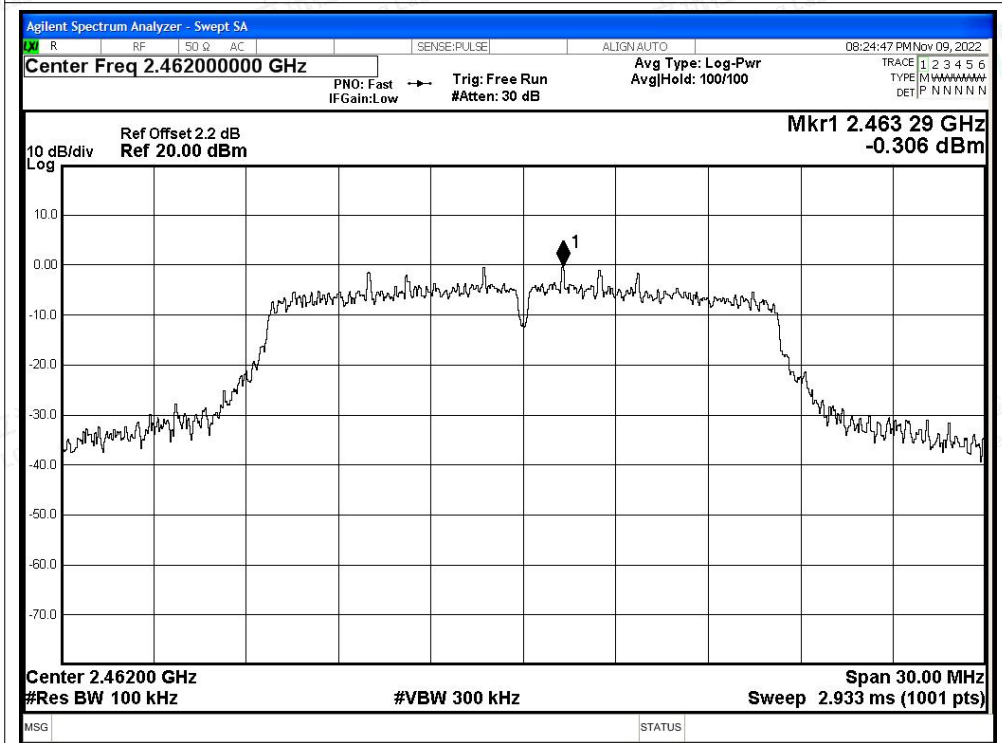


Band Edge NVNT g 2412MHz Ant1 Emission

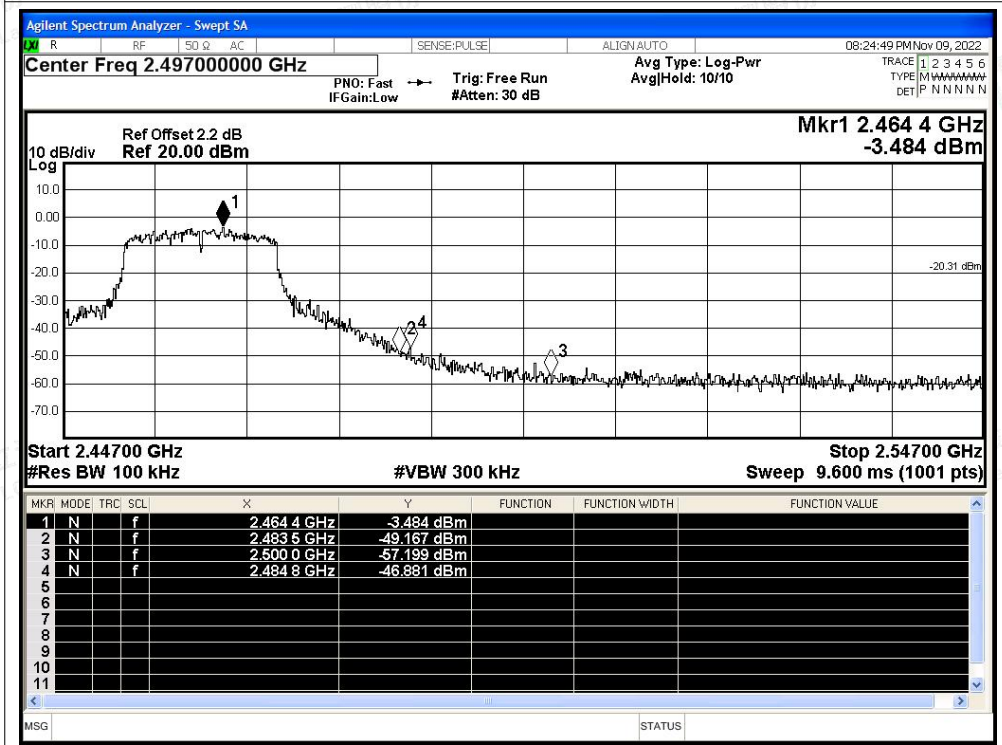


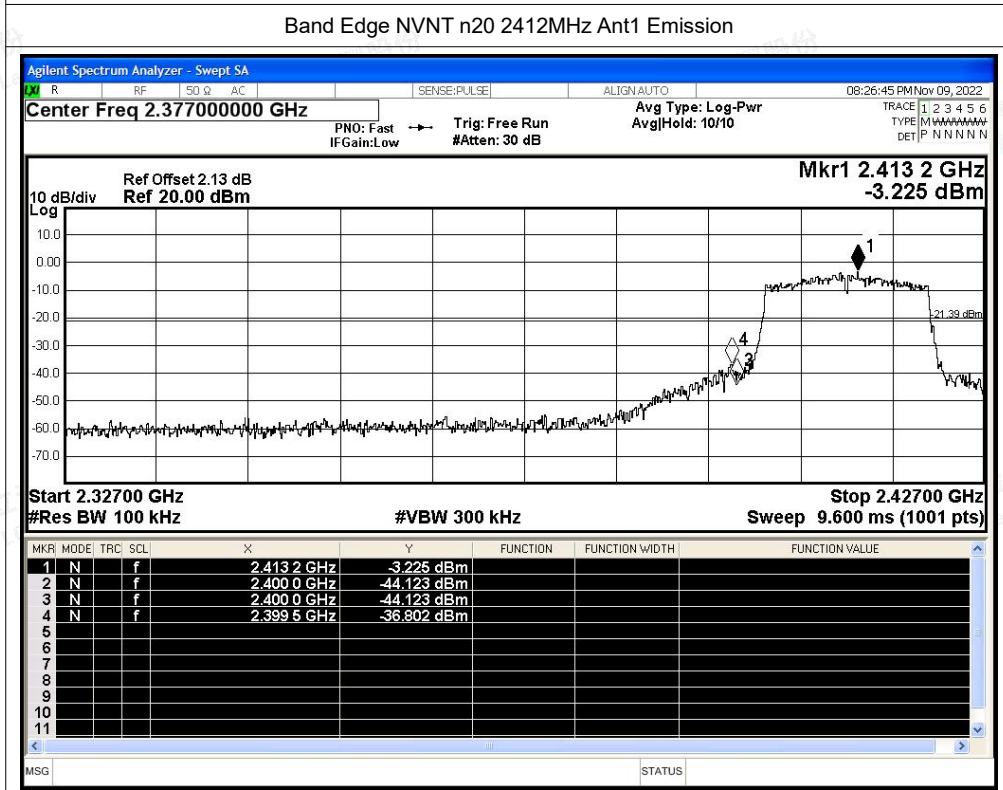
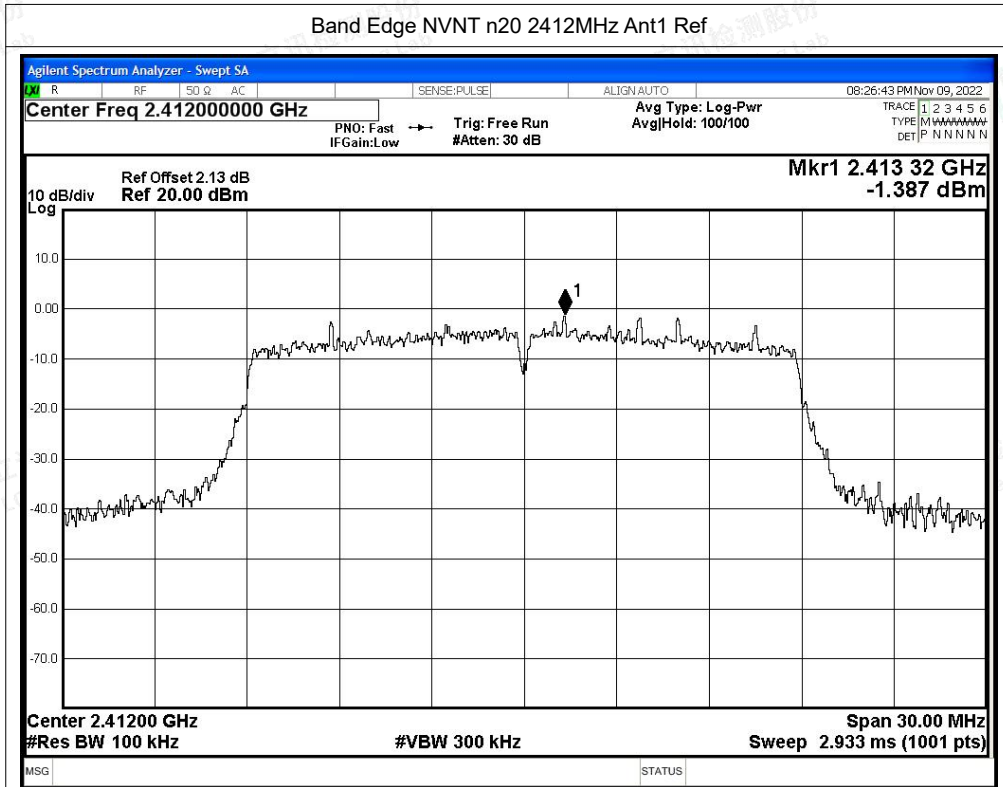


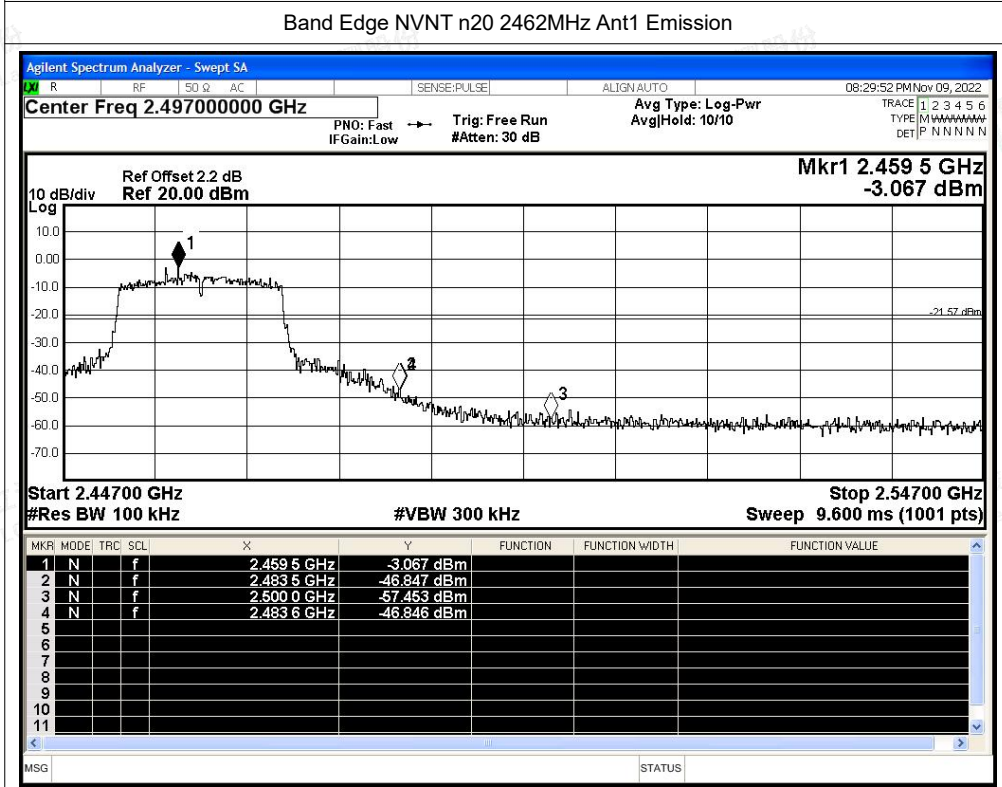
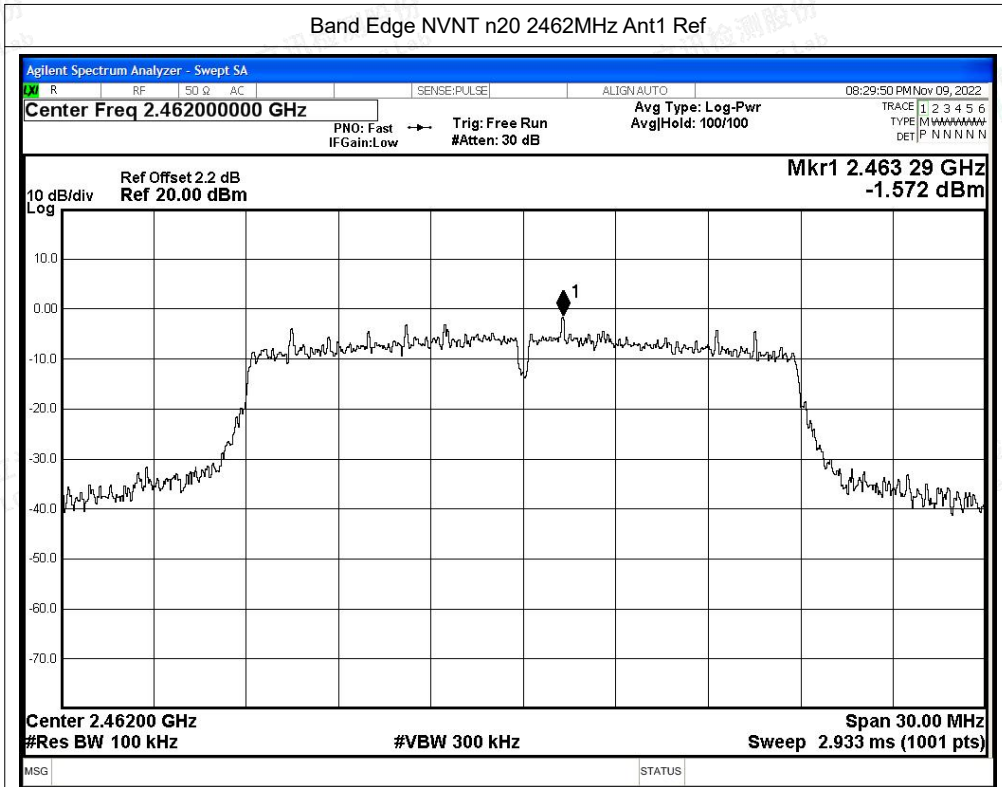
Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission









B.5 Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT | b | 2412 | Ant1 | -50.08 | -20 | Pass |
| NVNT | b | 2437 | Ant1 | -48.88 | -20 | Pass |
| NVNT | b | 2462 | Ant1 | -48.9 | -20 | Pass |
| NVNT | g | 2412 | Ant1 | -45.6 | -20 | Pass |
| NVNT | g | 2437 | Ant1 | -46.29 | -20 | Pass |
| NVNT | g | 2462 | Ant1 | -45.69 | -20 | Pass |
| NVNT | n20 | 2412 | Ant1 | -46.21 | -20 | Pass |
| NVNT | n20 | 2437 | Ant1 | -44.83 | -20 | Pass |
| NVNT | n20 | 2462 | Ant1 | -44.58 | -20 | Pass |

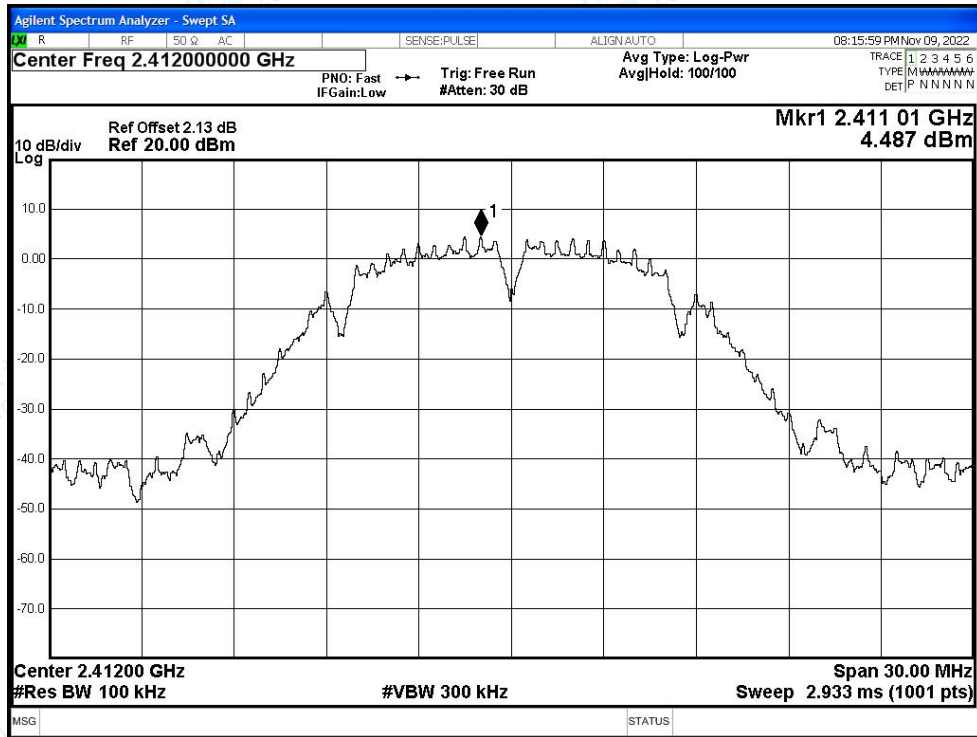


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

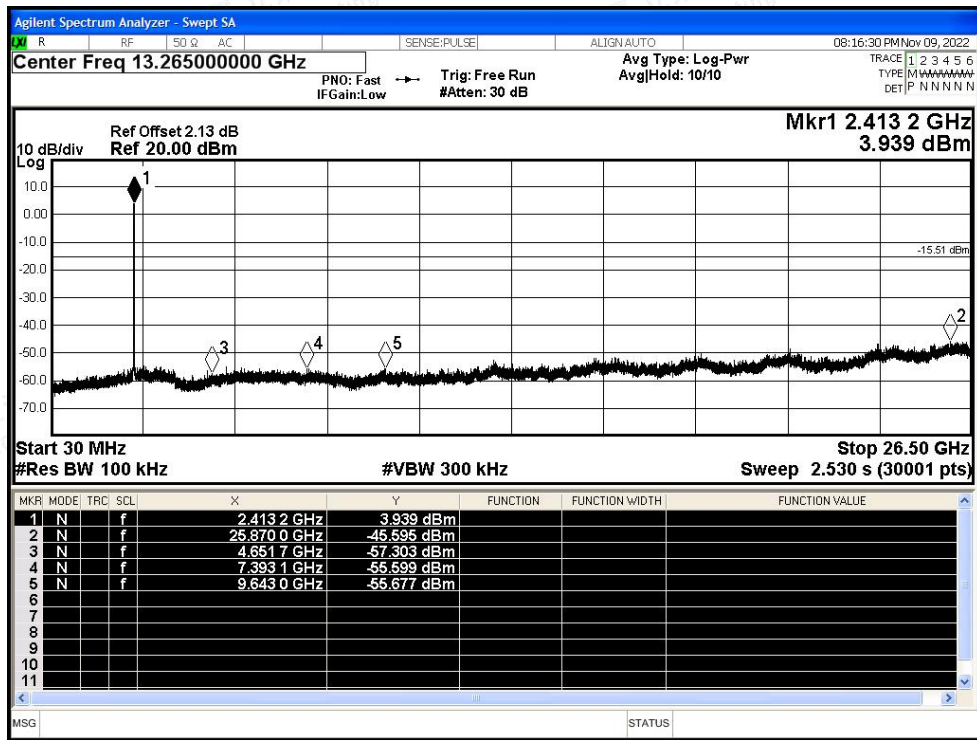


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref

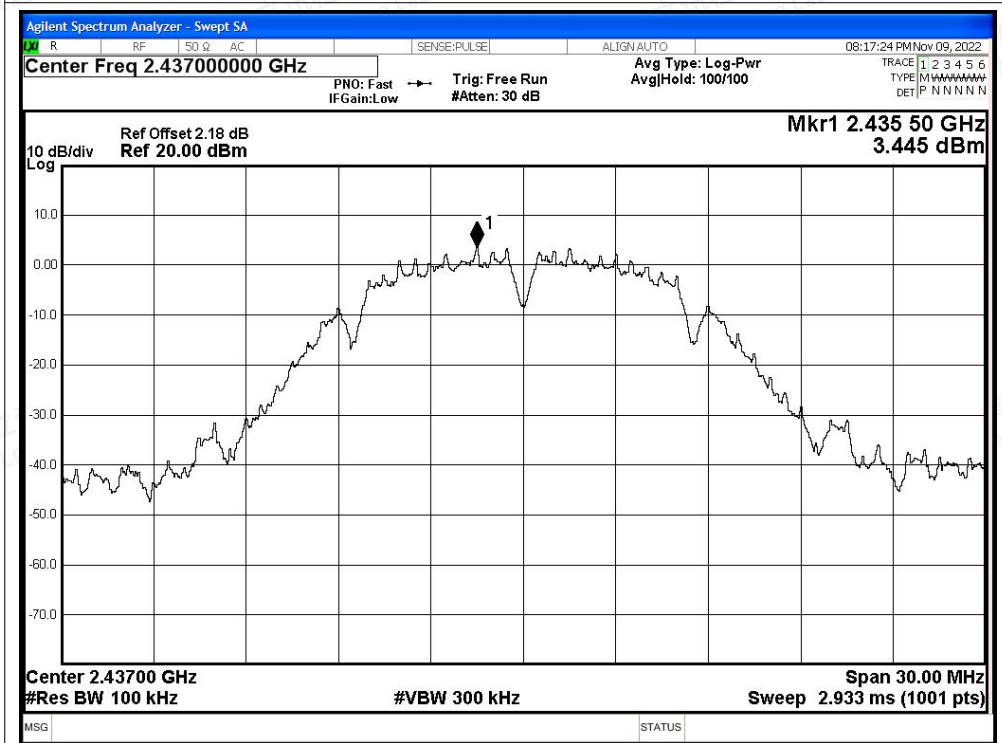


Tx. Spurious NVNT b 2412MHz Ant1 Emission





Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission

