



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Oscope

Trade Mark: N/A

Test Model: Y200

Environmental Conditions

| | |
|--------------------|-------------|
| Temperature: | 25.6° C |
| Relative Humidity: | 52.4% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: | Emiya lin |
| Supervised by: | Simba Haung |



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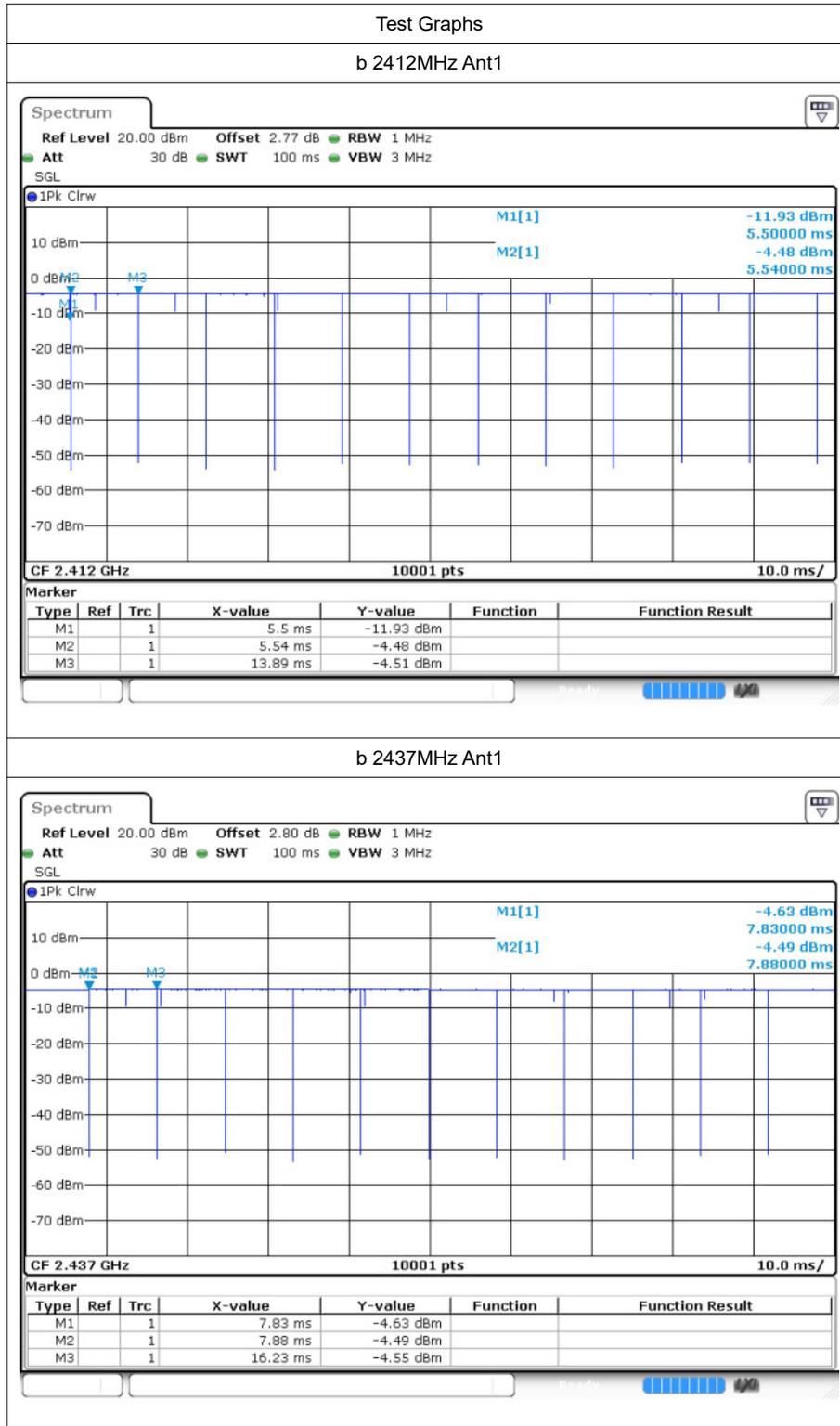


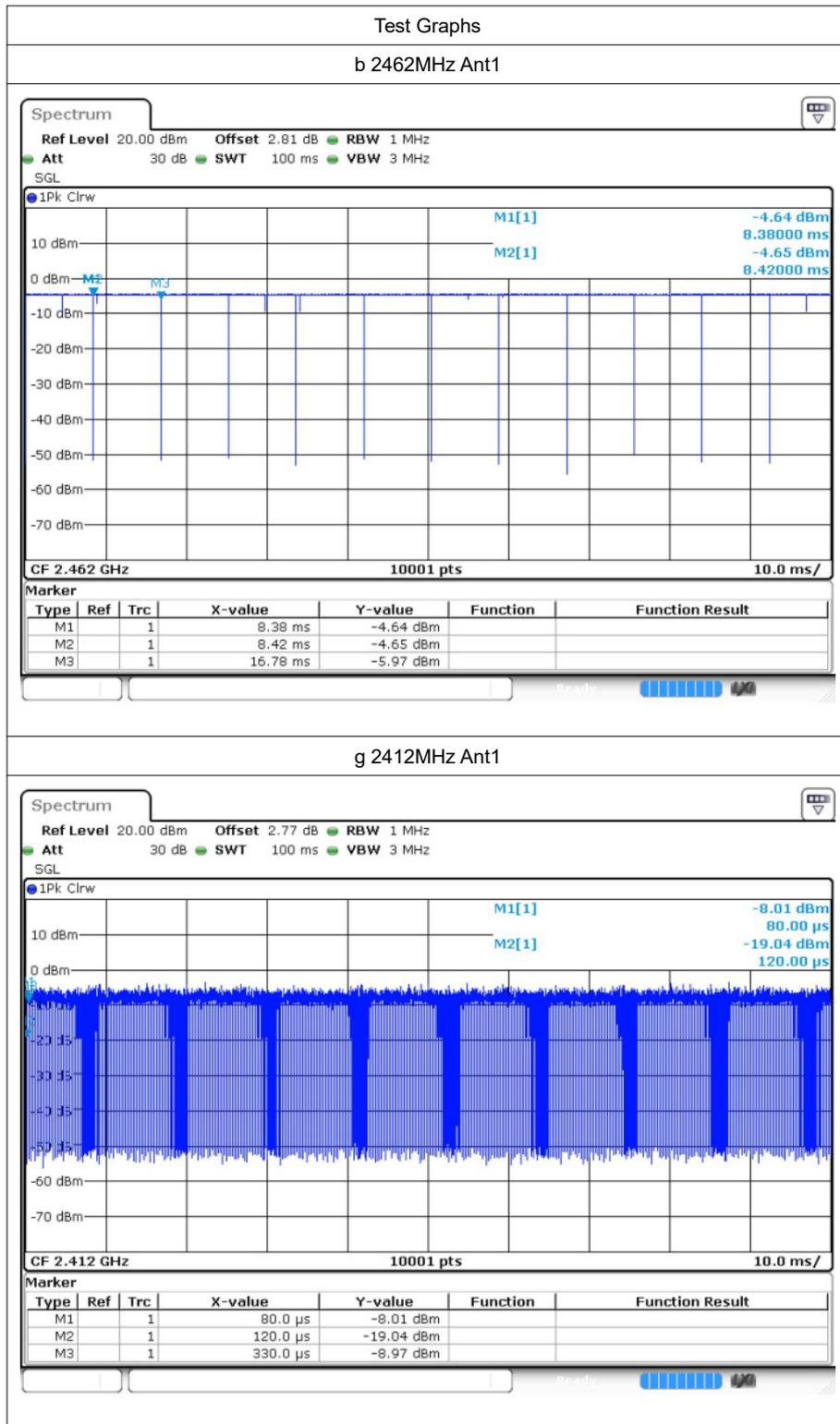
1 Duty Cycle

1.1 Test Result

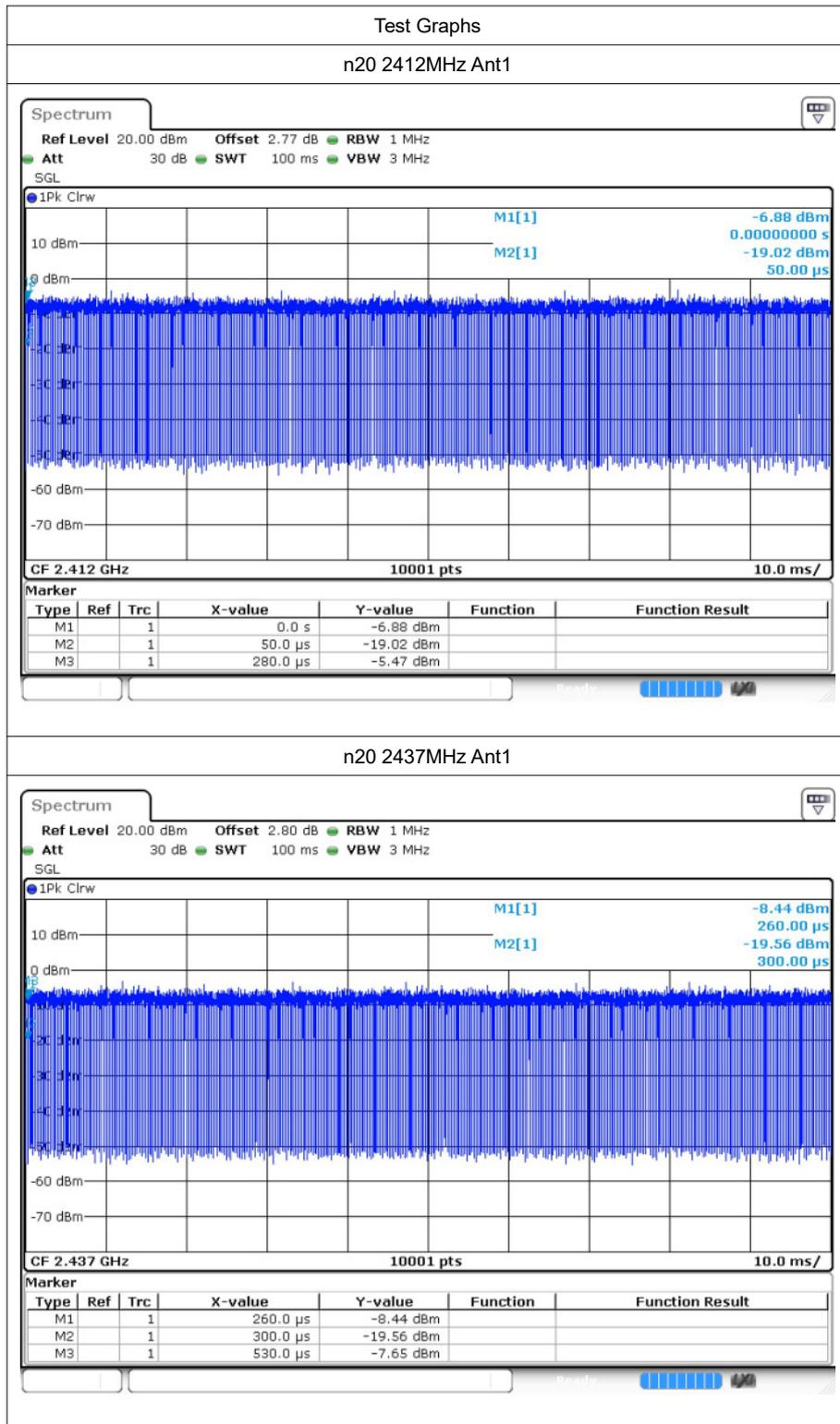
| Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor | 1/T (kHz) |
|------|-----------------|---------|----------------|-------------------|-----------|
| b | 2412 | Ant1 | 99.59 | 0.02 | 0.12 |
| b | 2437 | Ant1 | 99.63 | 0.02 | 0.12 |
| b | 2462 | Ant1 | 99.6 | 0.02 | 0.12 |
| g | 2412 | Ant1 | 86.77 | 0.62 | 4.76 |
| g | 2437 | Ant1 | 86.83 | 0.61 | 4.76 |
| g | 2462 | Ant1 | 86.69 | 0.62 | 4.76 |
| n20 | 2412 | Ant1 | 87.45 | 0.58 | 4.35 |
| n20 | 2437 | Ant1 | 87.46 | 0.58 | 4.35 |
| n20 | 2462 | Ant1 | 87.43 | 0.58 | 4.35 |

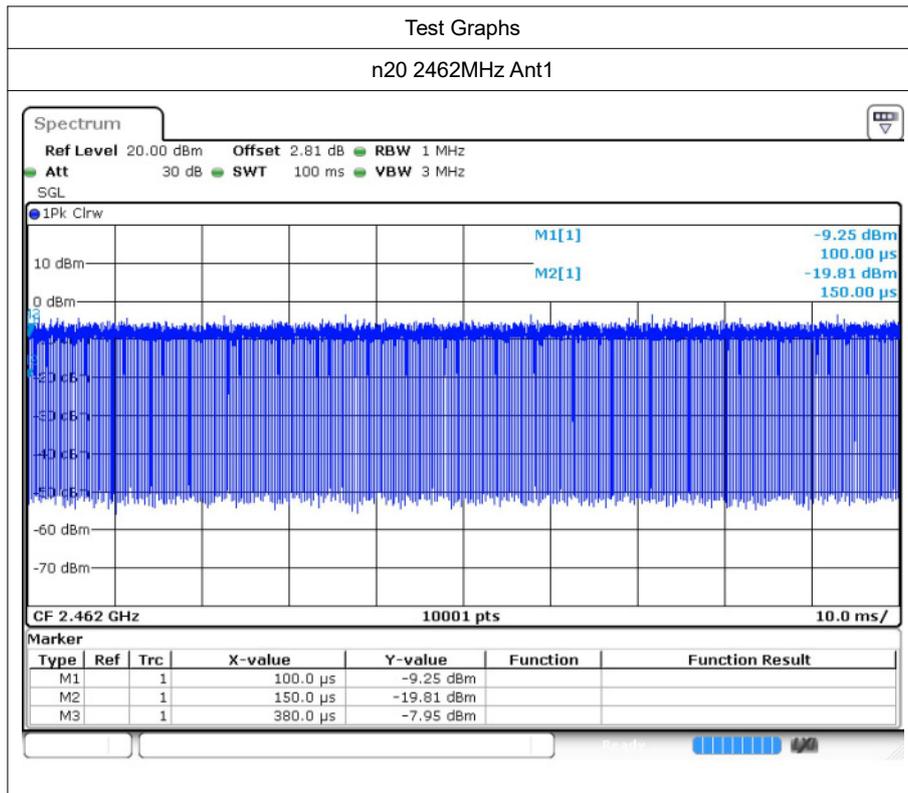
1.2 Test Graphs













2 Maximum Conducted Output Power

2.1 Test Result

| Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|------|-----------------|---------|-----------------------|-------------|---------|
| b | 2412 | Ant1 | 6.05 | 30 | Pass |
| b | 2437 | Ant1 | 5.86 | 30 | Pass |
| b | 2462 | Ant1 | 5.79 | 30 | Pass |
| g | 2412 | Ant1 | 5.51 | 30 | Pass |
| g | 2437 | Ant1 | 5.56 | 30 | Pass |
| g | 2462 | Ant1 | 5.53 | 30 | Pass |
| n20 | 2412 | Ant1 | 5.46 | 30 | Pass |
| n20 | 2437 | Ant1 | 5.39 | 30 | Pass |
| n20 | 2462 | Ant1 | 5.43 | 30 | Pass |

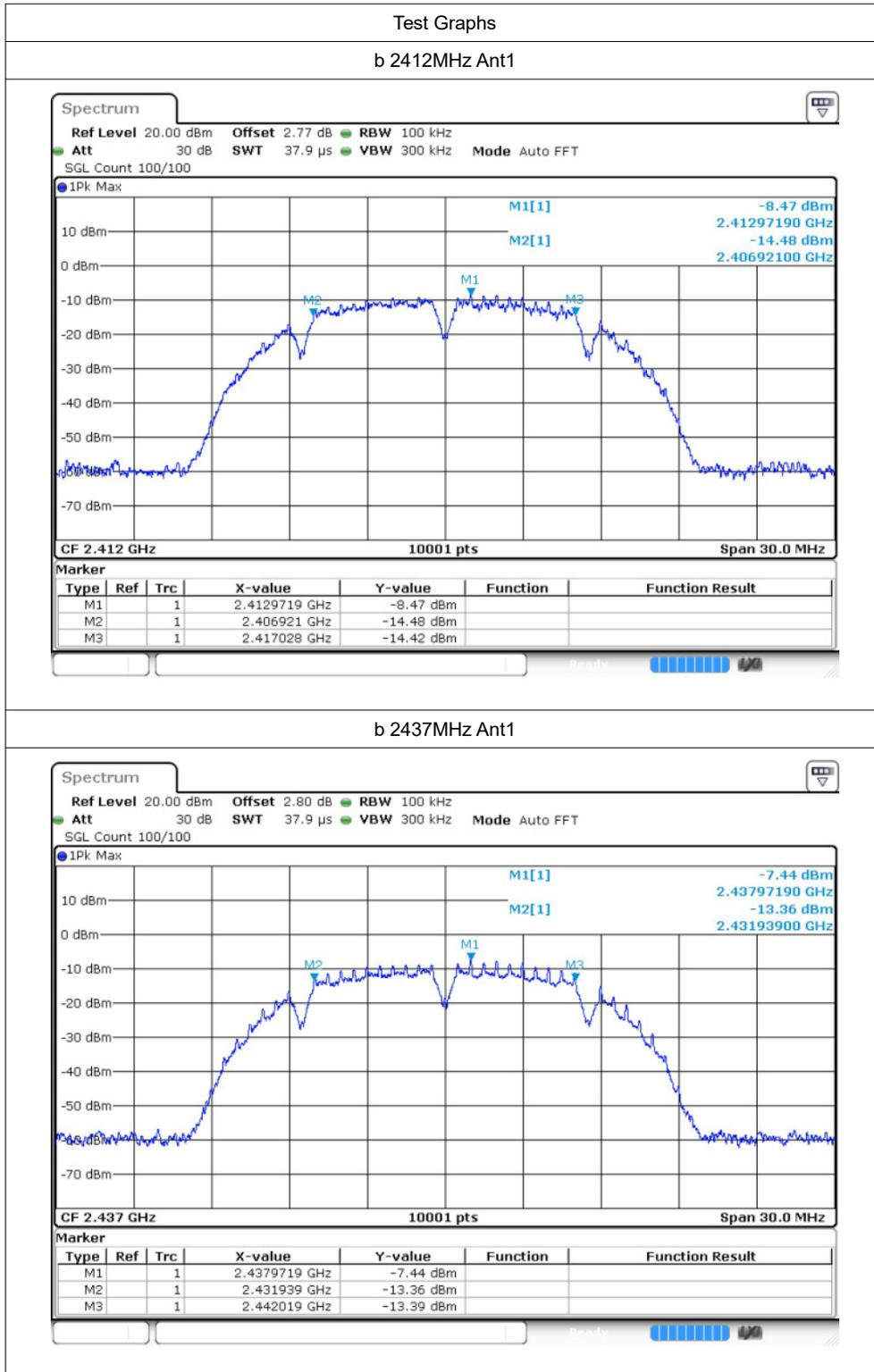


3 -6dB Bandwidth

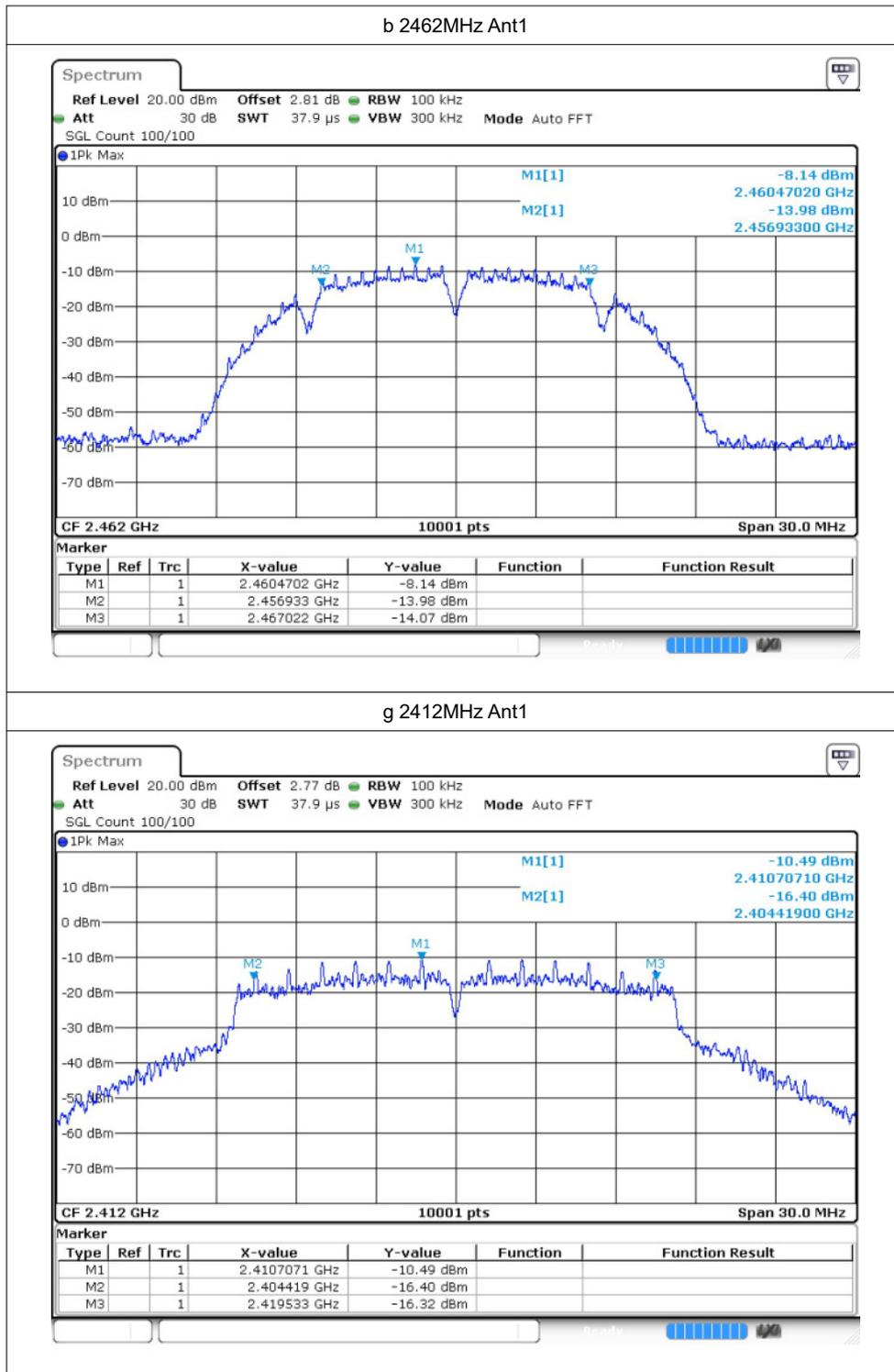
3.1 Test Result

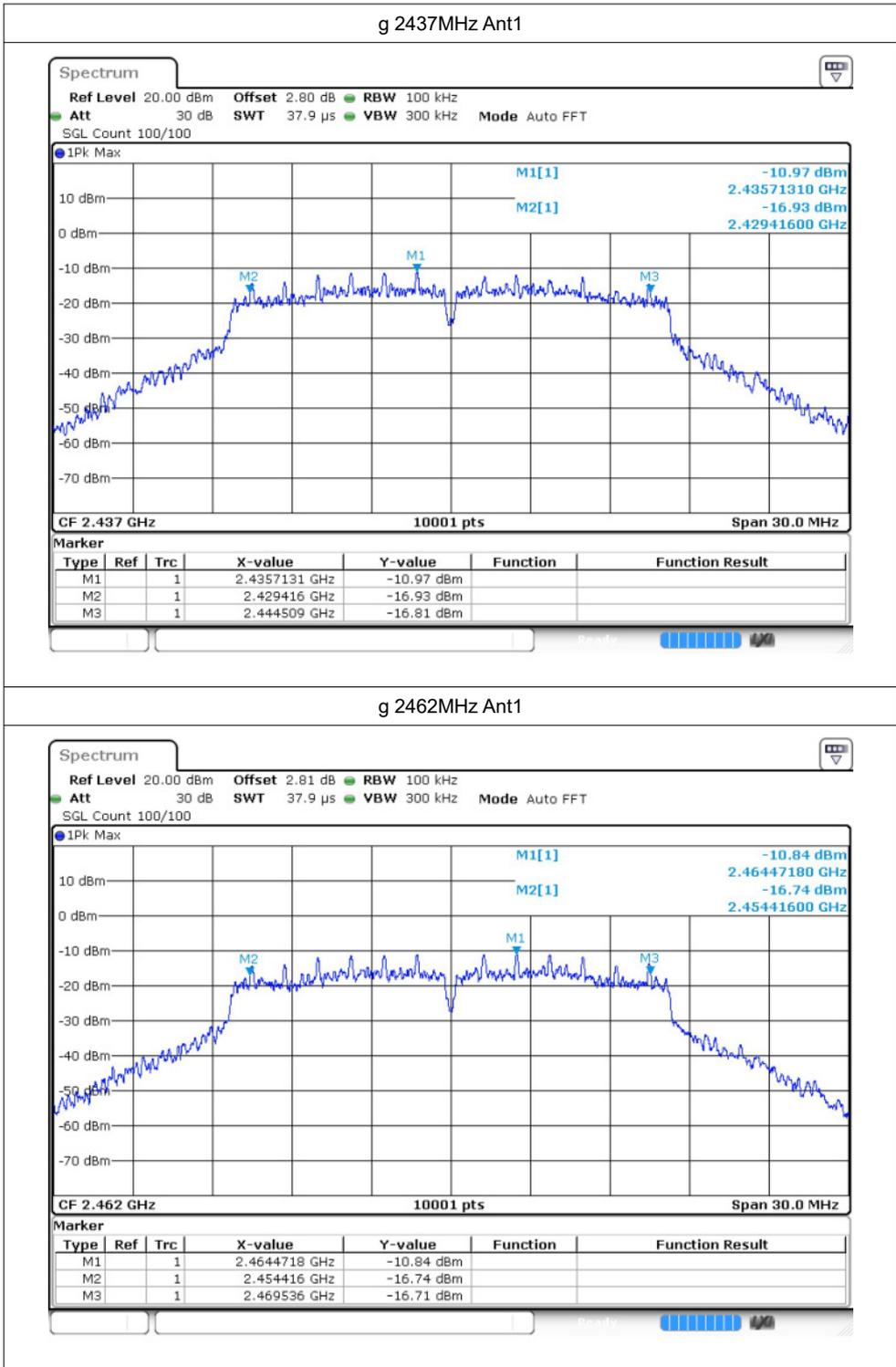
| Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|------|-----------------|---------|-----------------------|-----------------------------|---------|
| b | 2412 | Ant1 | 10.107 | 0.5 | Pass |
| b | 2437 | Ant1 | 10.08 | 0.5 | Pass |
| b | 2462 | Ant1 | 10.089 | 0.5 | Pass |
| g | 2412 | Ant1 | 15.114 | 0.5 | Pass |
| g | 2437 | Ant1 | 15.093 | 0.5 | Pass |
| g | 2462 | Ant1 | 15.12 | 0.5 | Pass |
| n20 | 2412 | Ant1 | 15.105 | 0.5 | Pass |
| n20 | 2437 | Ant1 | 15.048 | 0.5 | Pass |
| n20 | 2462 | Ant1 | 15.114 | 0.5 | Pass |

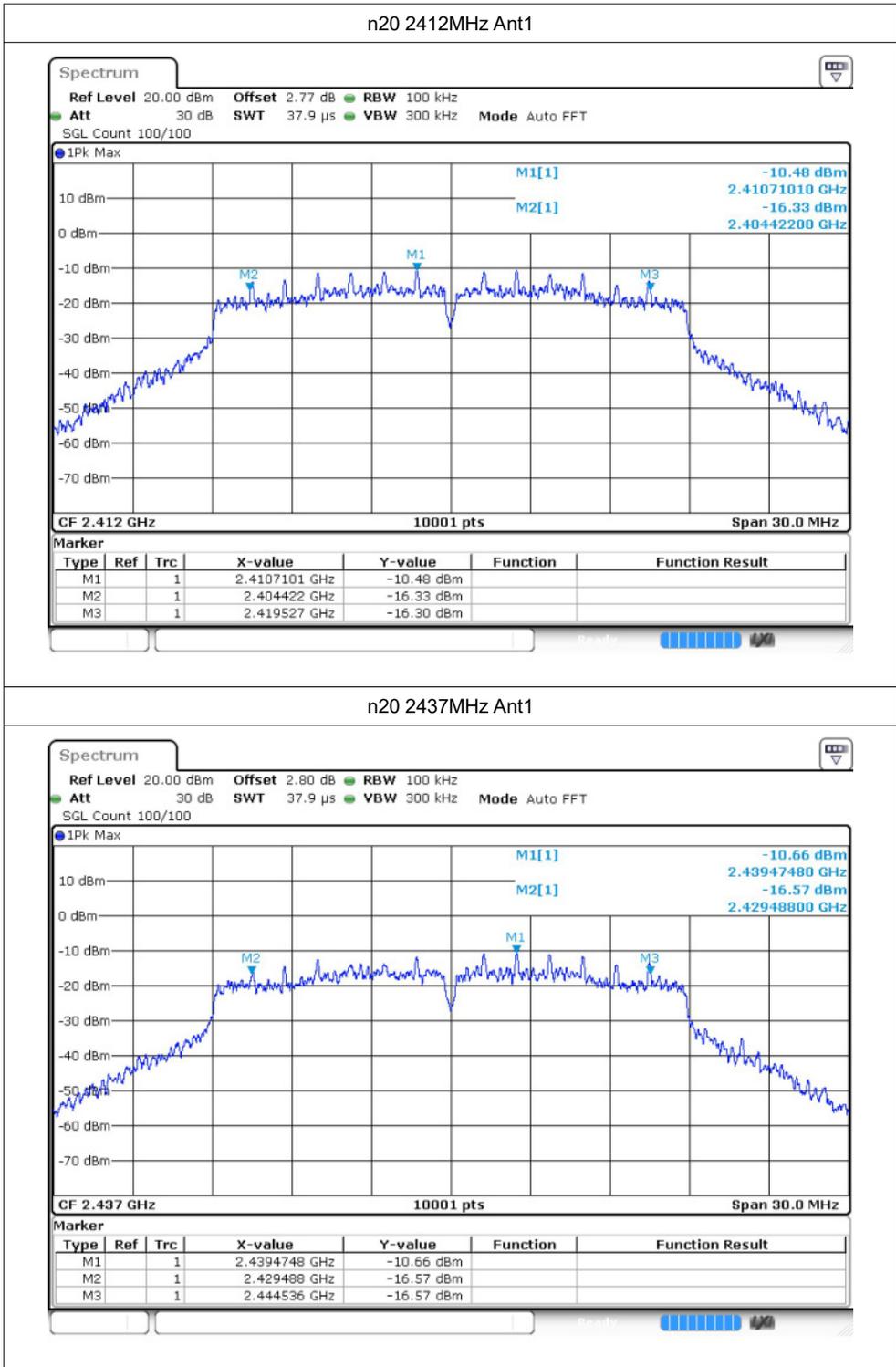
3.2 Test Graphs

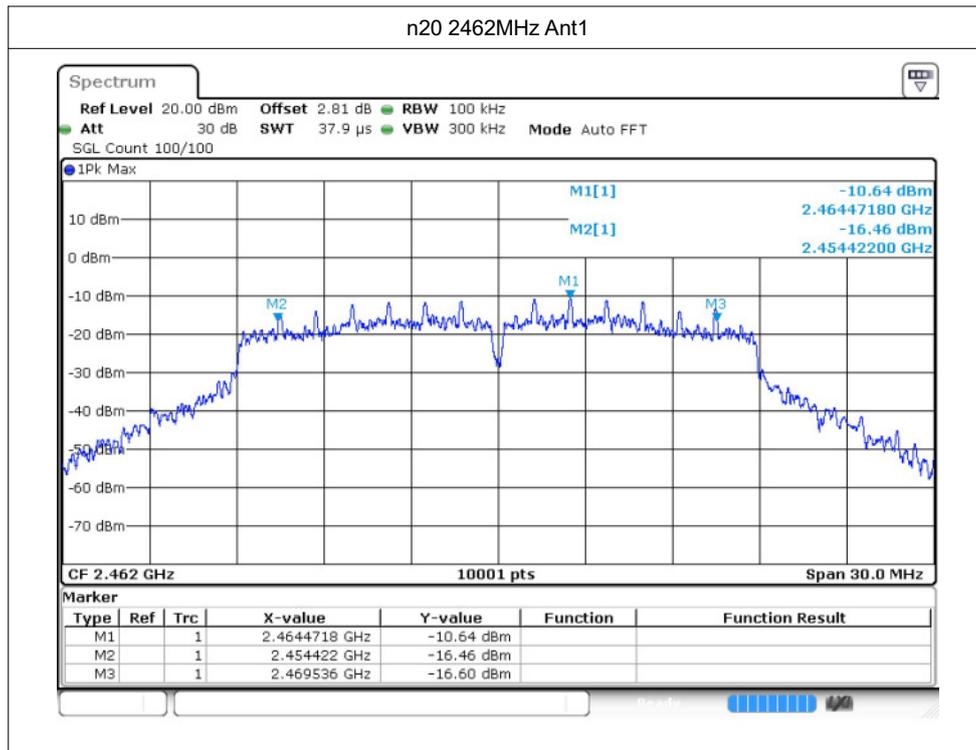


b 2437MHz Ant1







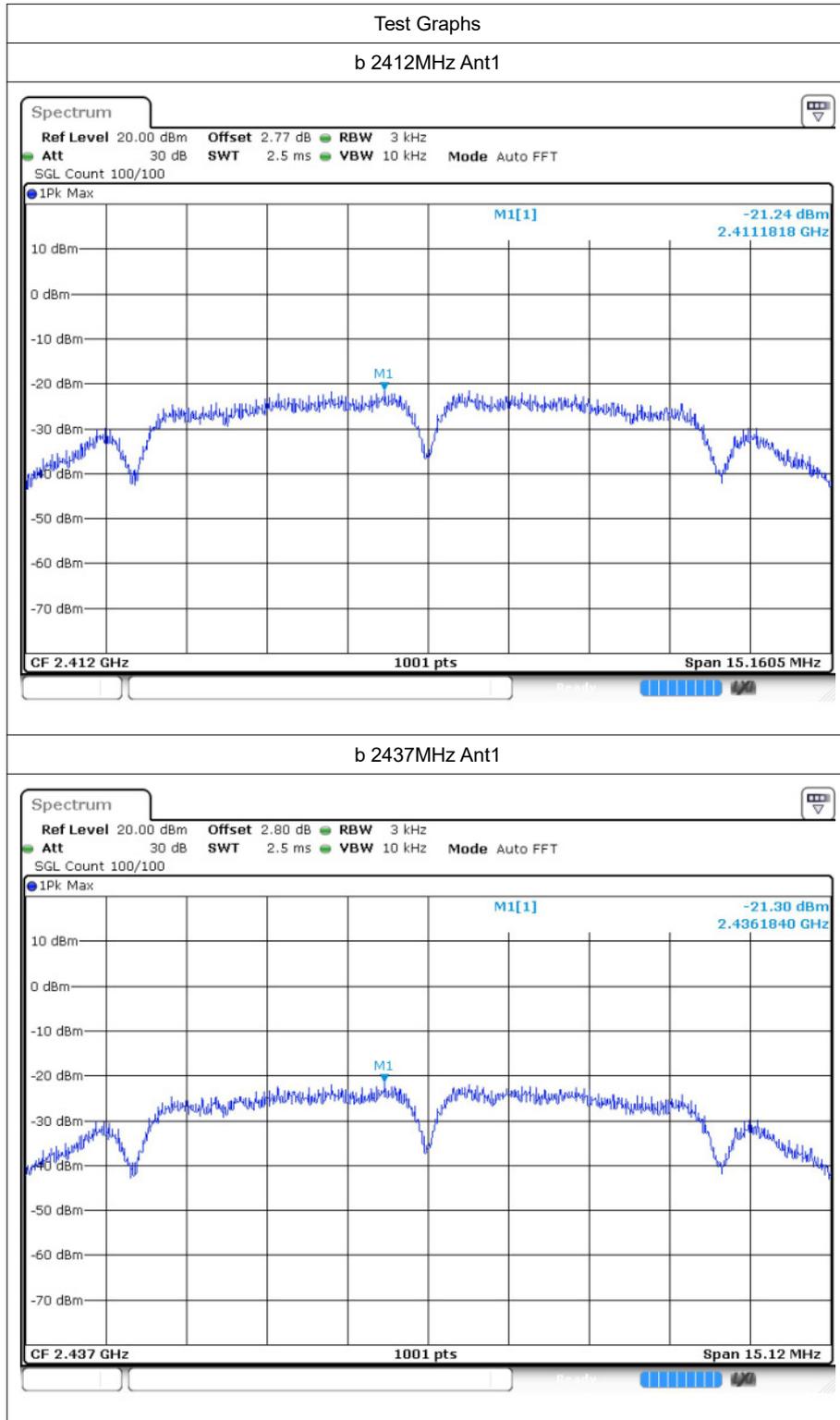


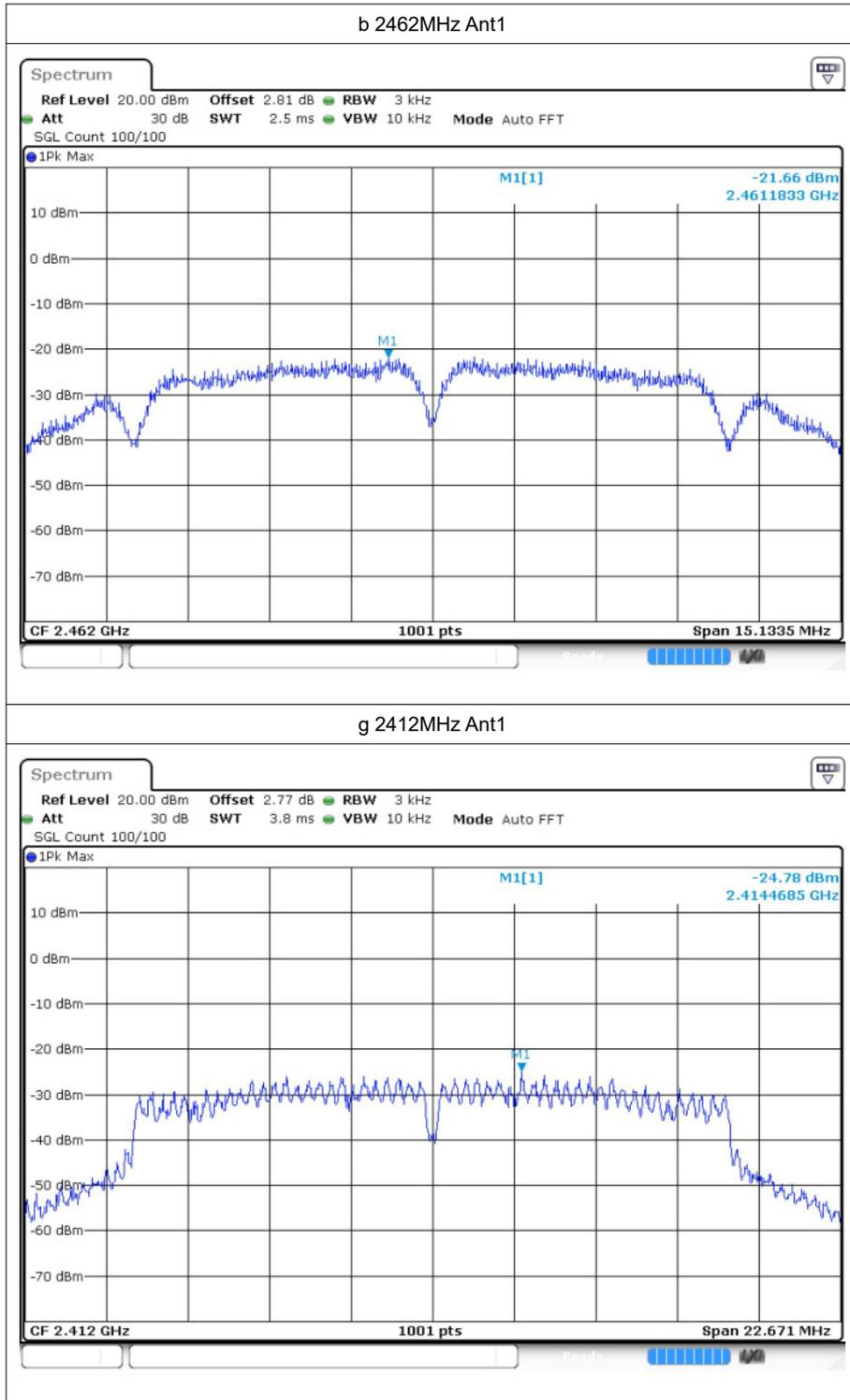
4 Maximum Power Spectral Density Level

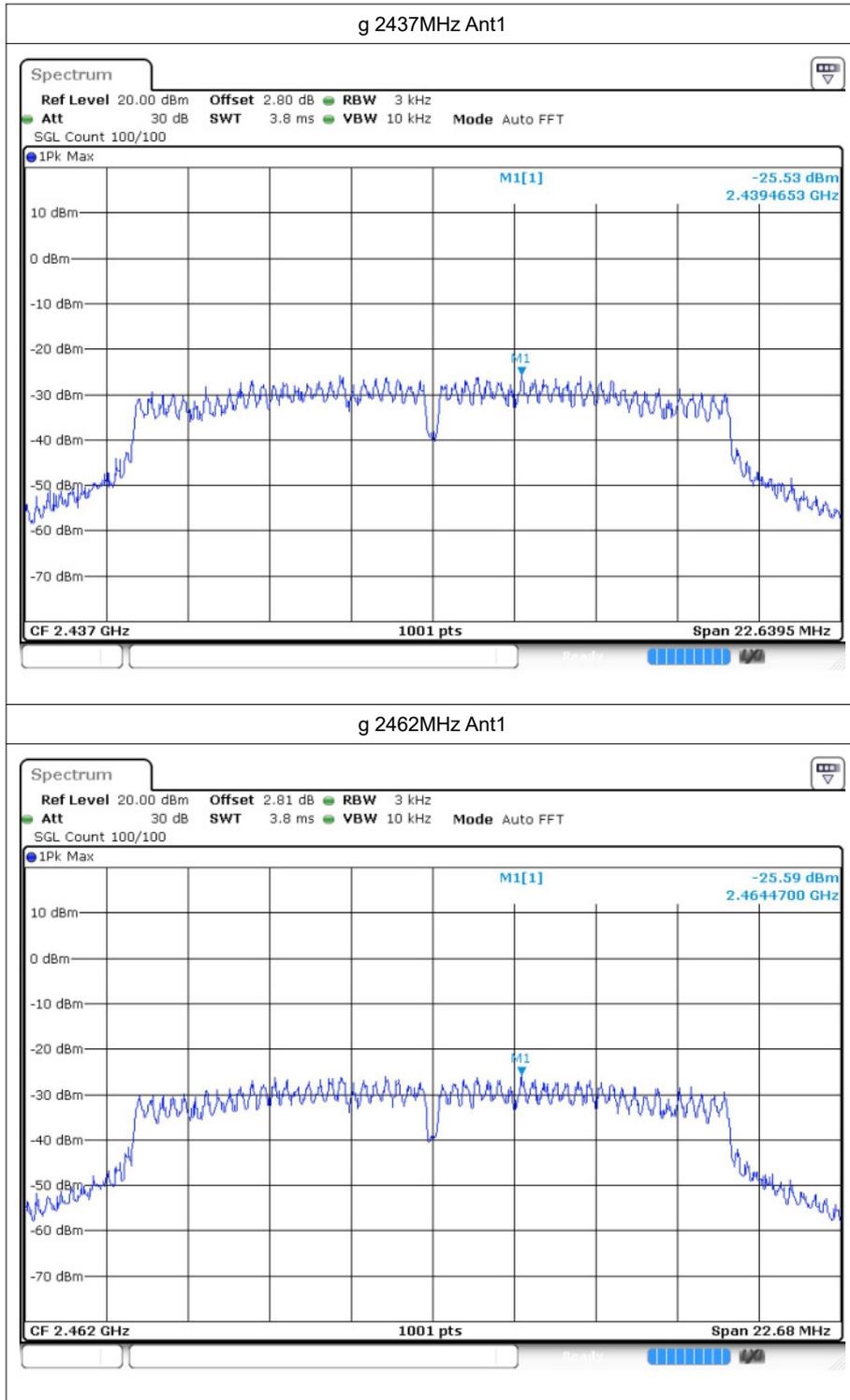
4.1 Test Result

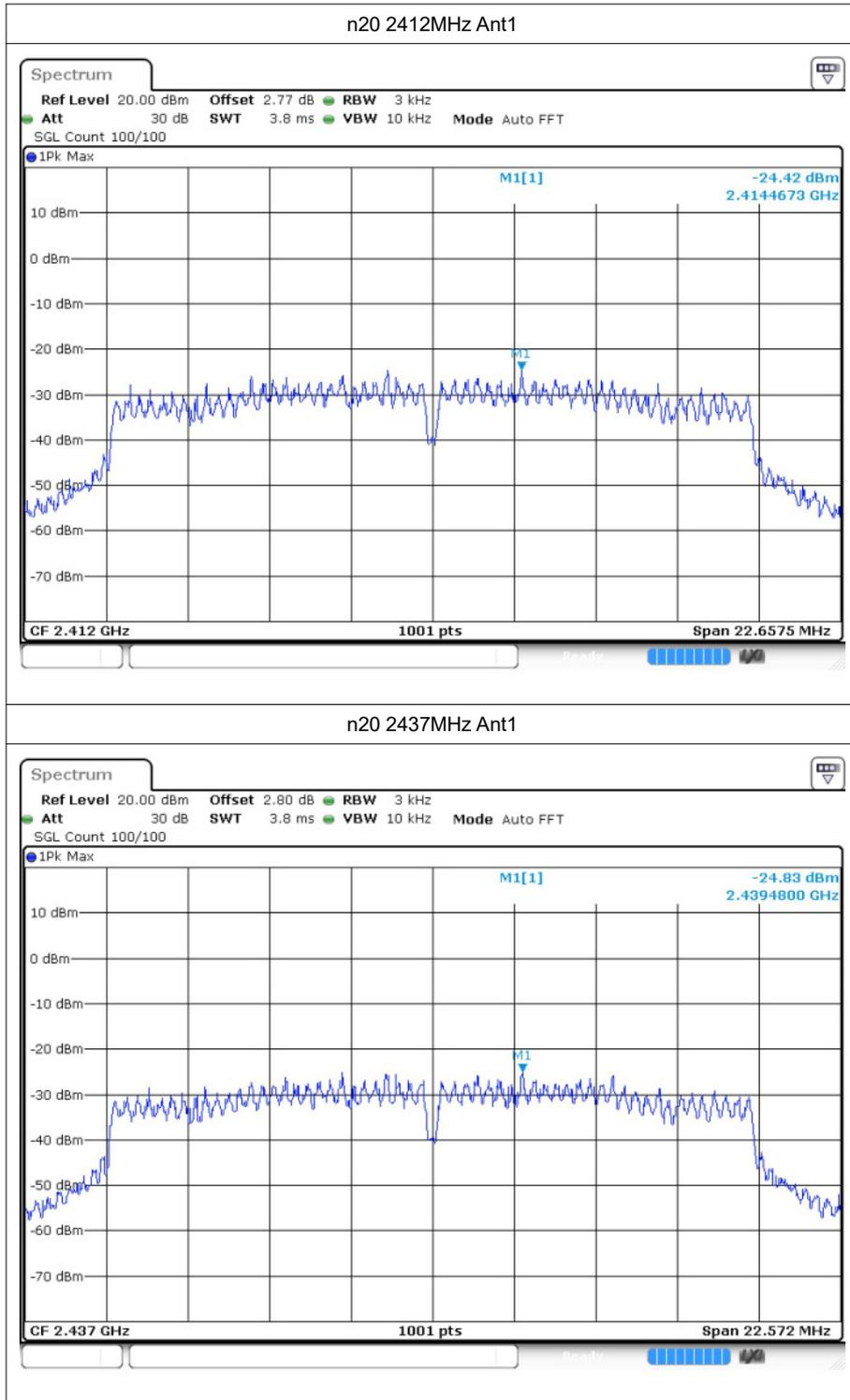
| Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3-100kHz) | Limit (dBm/3kHz) | Verdict |
|------|-----------------|---------|---------------------------------|---------------------|---------|
| b | 2412 | Ant1 | -21.24 | ≤8 | Pass |
| b | 2437 | Ant1 | -21.3 | ≤8 | Pass |
| b | 2462 | Ant1 | -21.66 | ≤8 | Pass |
| g | 2412 | Ant1 | -24.78 | ≤8 | Pass |
| g | 2437 | Ant1 | -25.53 | ≤8 | Pass |
| g | 2462 | Ant1 | -25.59 | ≤8 | Pass |
| n20 | 2412 | Ant1 | -24.42 | ≤8 | Pass |
| n20 | 2437 | Ant1 | -24.83 | ≤8 | Pass |
| n20 | 2462 | Ant1 | -24.93 | ≤8 | Pass |

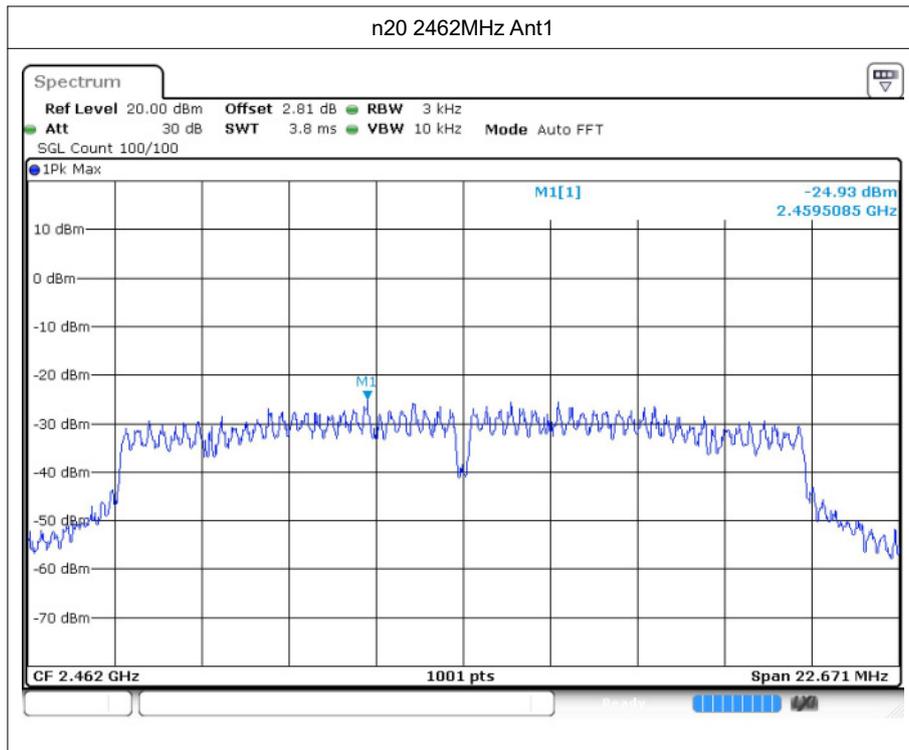
4.2 Test Graphs











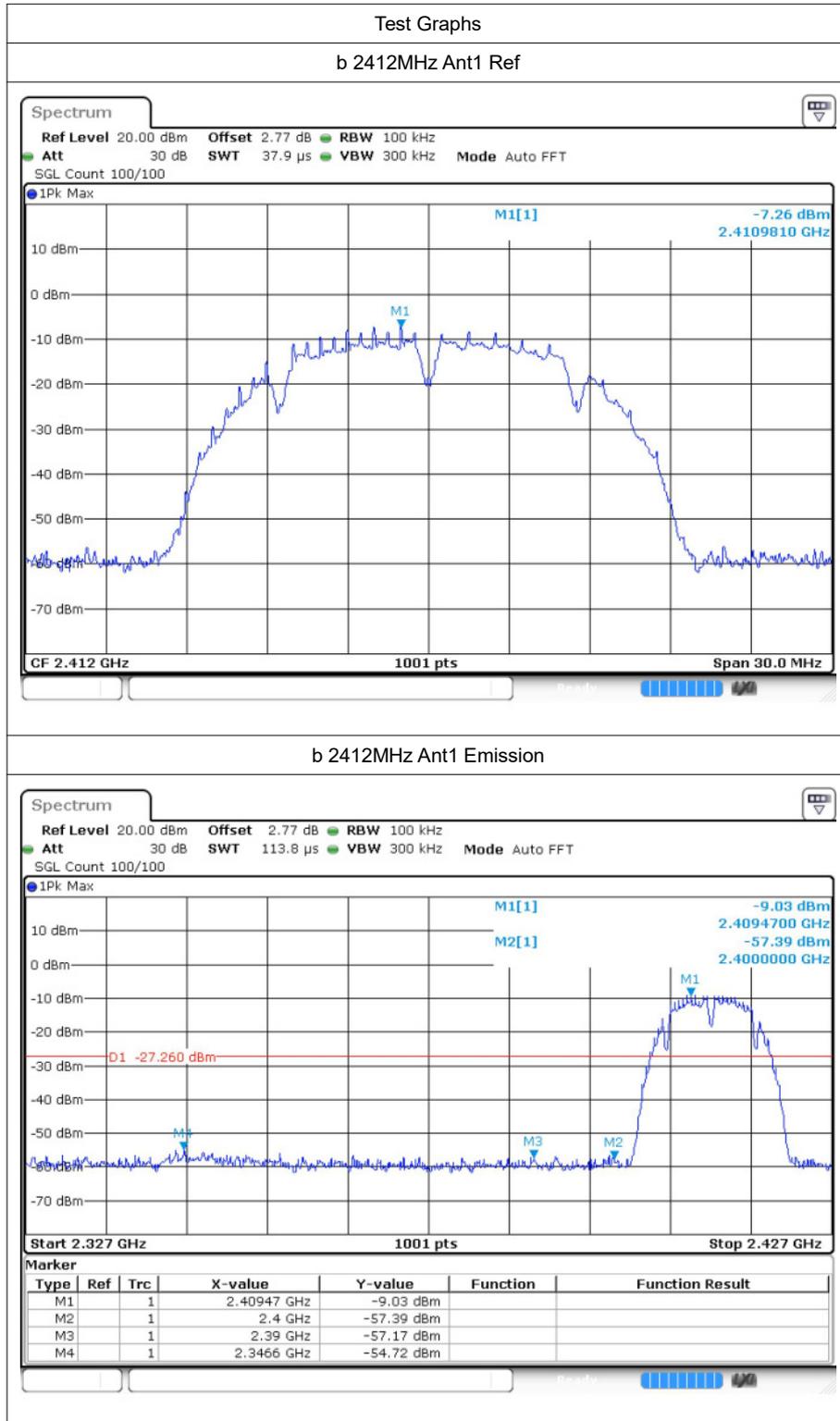


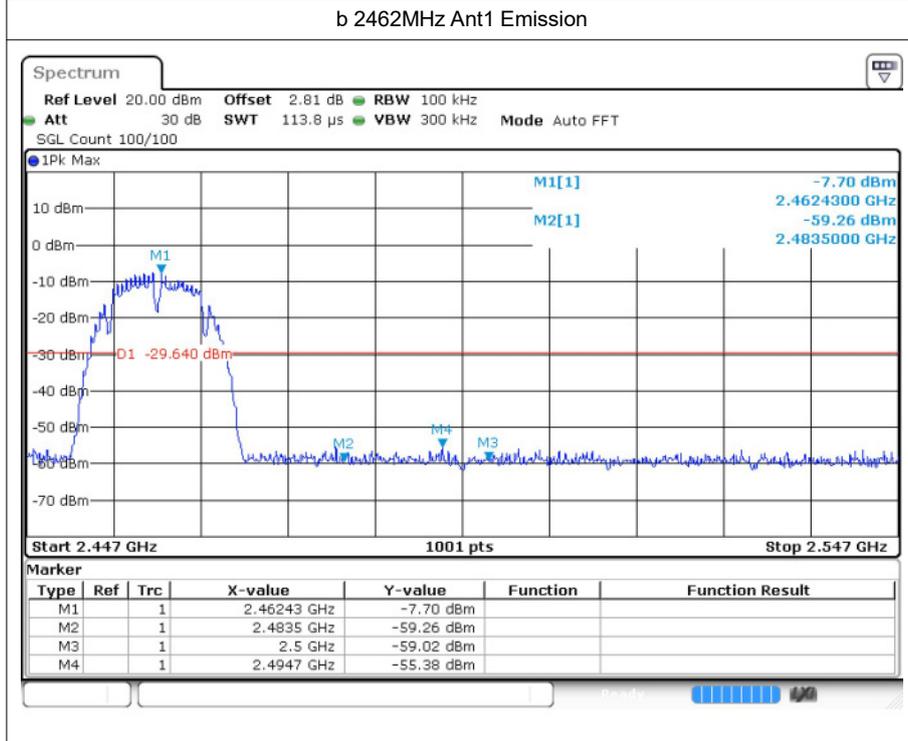
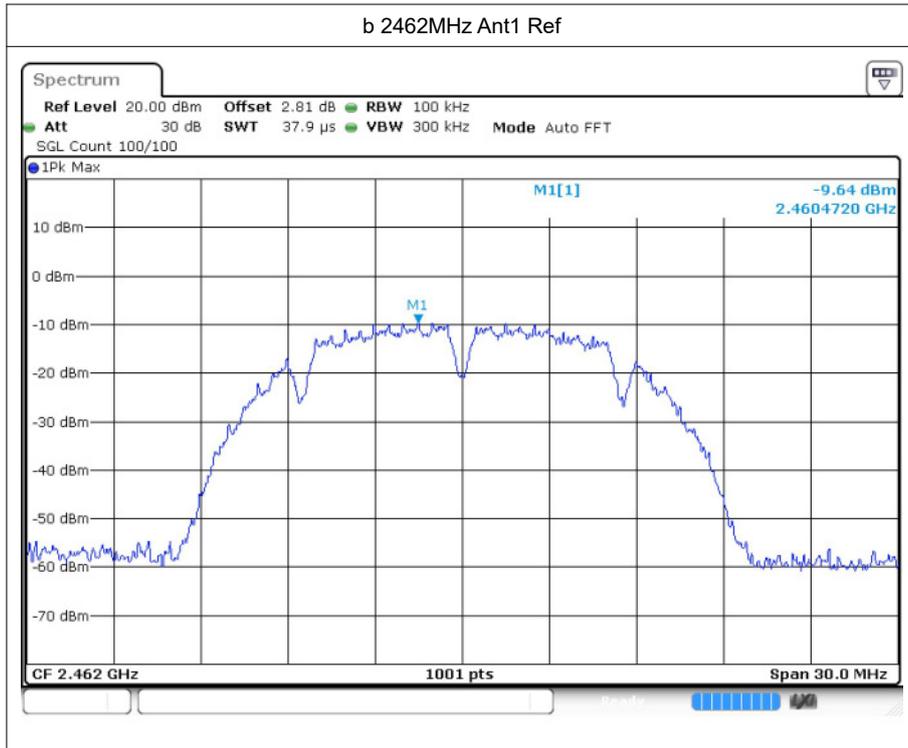
5 Band Edge

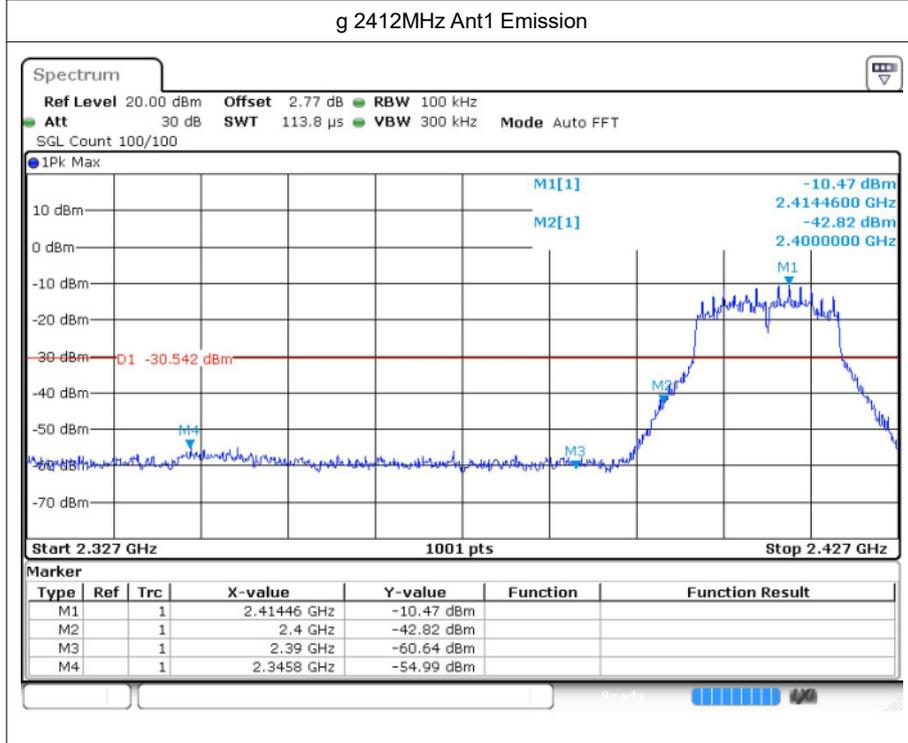
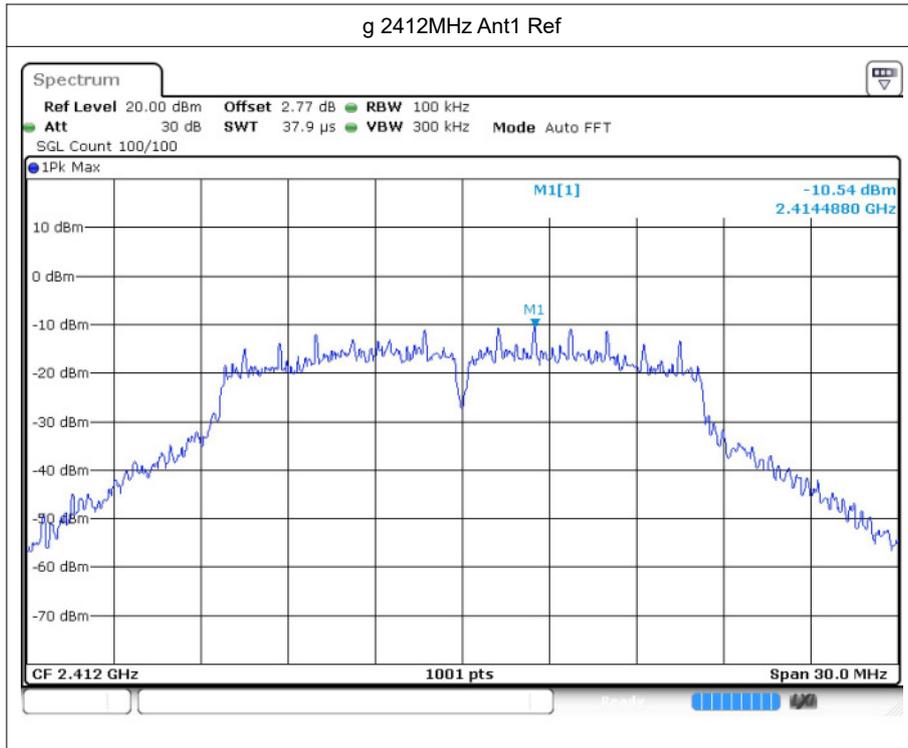
5.1 Test Result

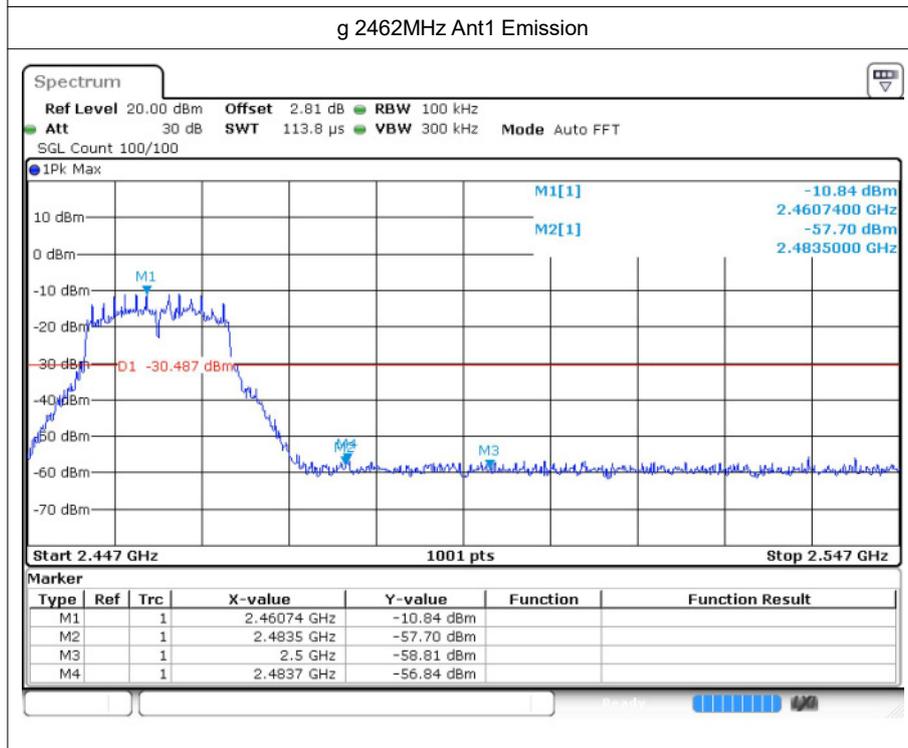
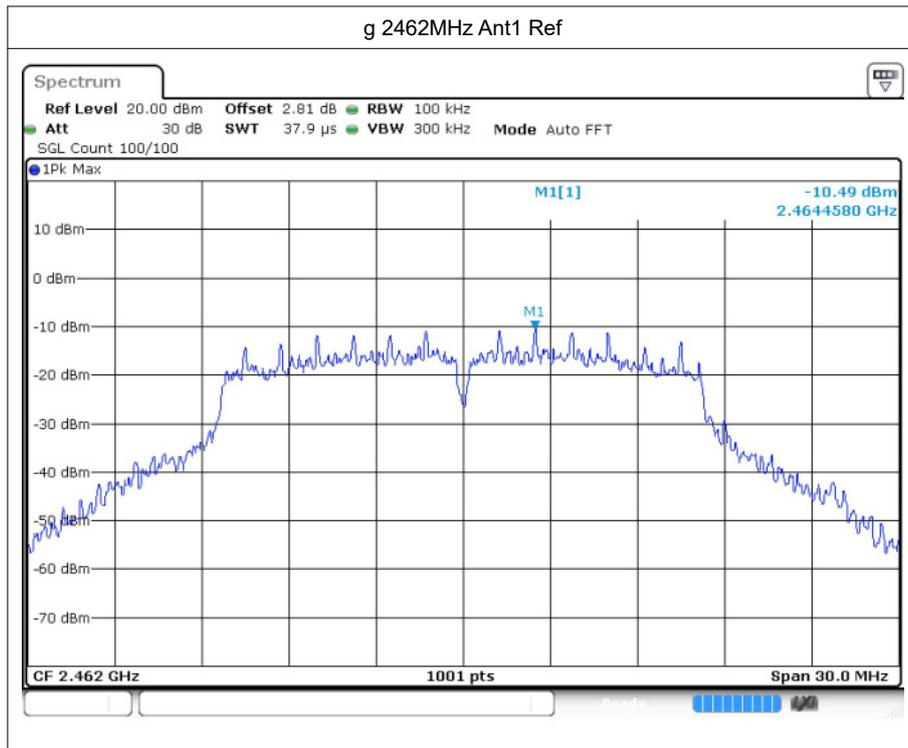
| Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|------|-----------------|---------|-----------------|-------------|---------|
| b | 2412 | Ant1 | -47.45 | -20 | Pass |
| b | 2462 | Ant1 | -45.73 | -20 | Pass |
| g | 2412 | Ant1 | -44.44 | -20 | Pass |
| g | 2462 | Ant1 | -46.34 | -20 | Pass |
| n20 | 2412 | Ant1 | -44.8 | -20 | Pass |
| n20 | 2462 | Ant1 | -46.14 | -20 | Pass |

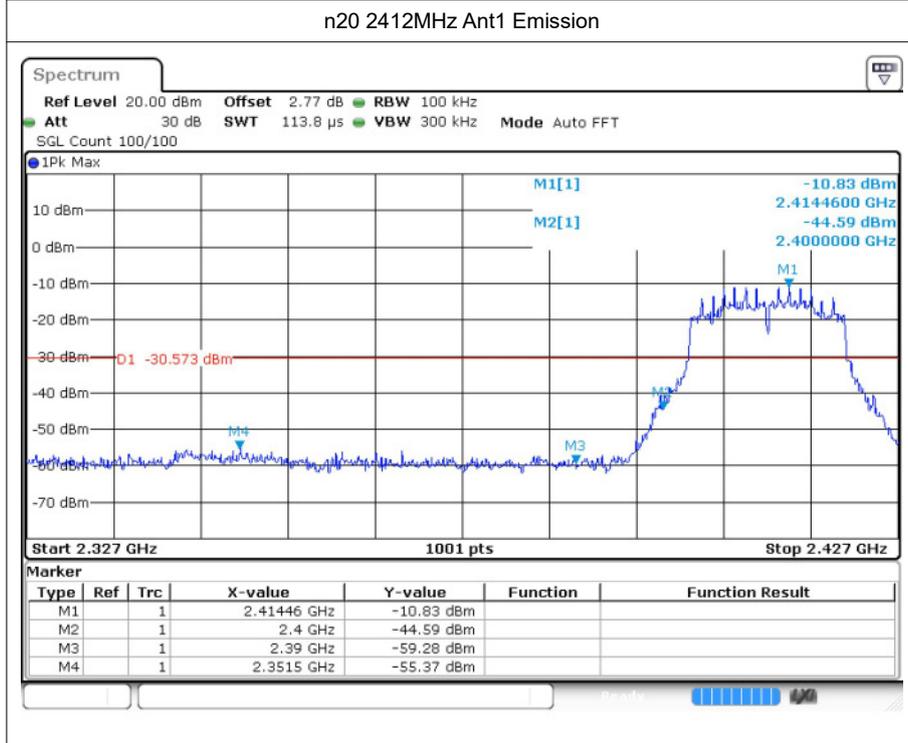
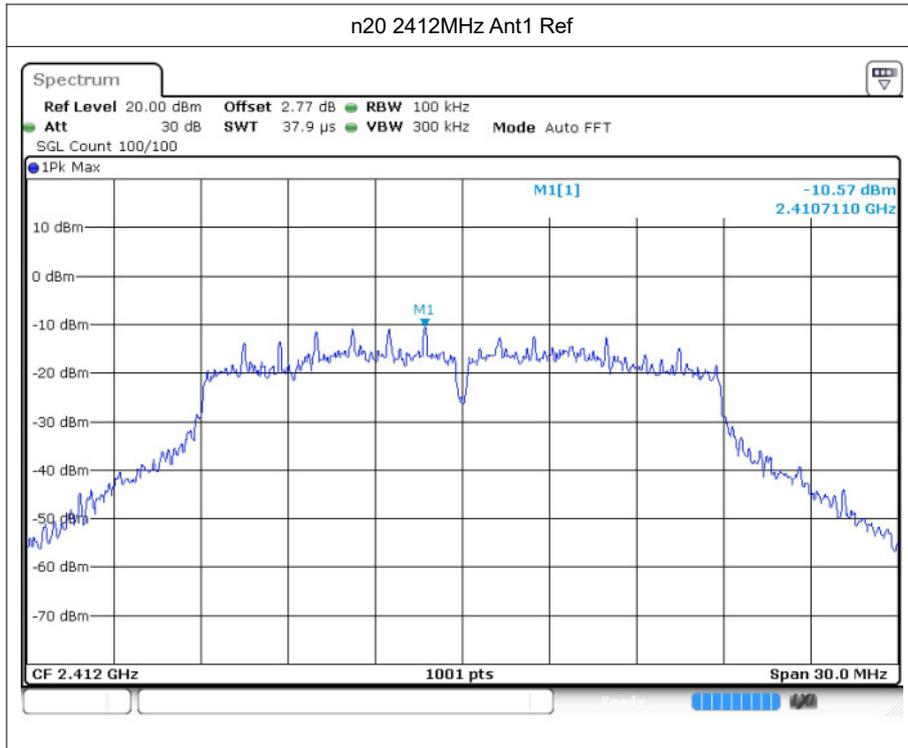
5.2 Test Graphs

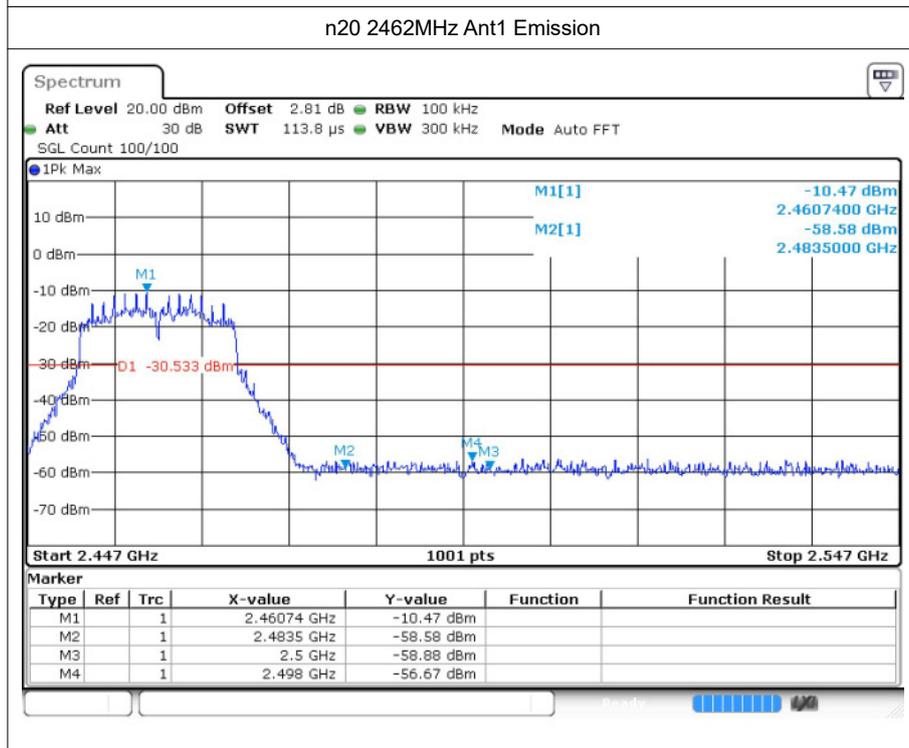
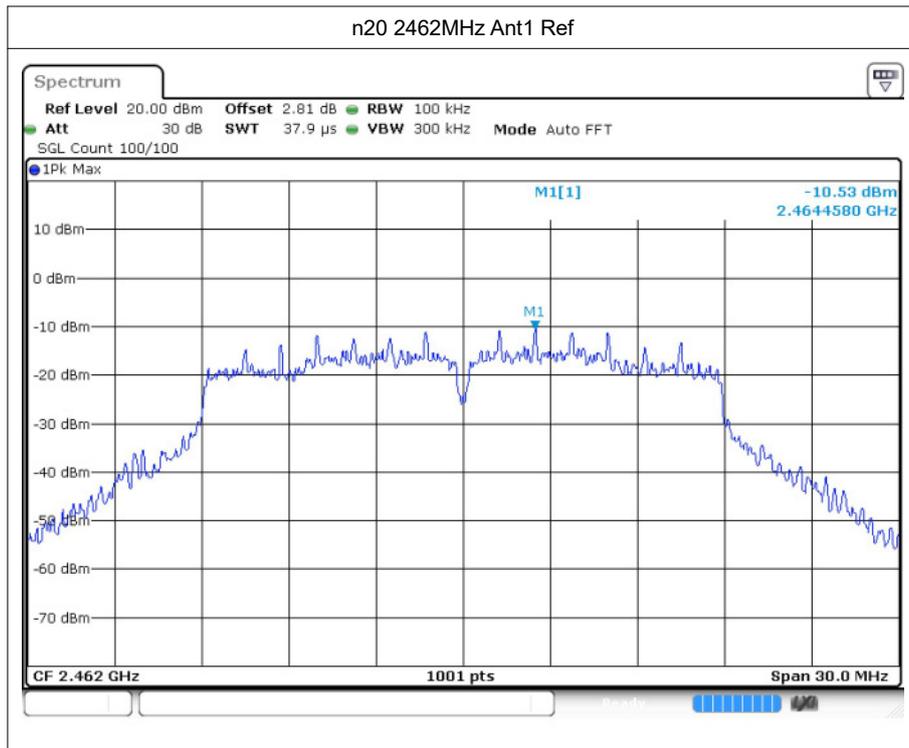














6 Conducted RF Spurious Emission

6.1 Test Result

| Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|------|-----------------|---------|-----------------|-------------|---------|
| b | 2412 | Ant1 | -35.31 | -20 | Pass |
| b | 2437 | Ant1 | -34.52 | -20 | Pass |
| b | 2462 | Ant1 | -35.57 | -20 | Pass |
| g | 2412 | Ant1 | -32.76 | -20 | Pass |
| g | 2437 | Ant1 | -33.18 | -20 | Pass |
| g | 2462 | Ant1 | -32.48 | -20 | Pass |
| n20 | 2412 | Ant1 | -32.86 | -20 | Pass |
| n20 | 2437 | Ant1 | -33.01 | -20 | Pass |
| n20 | 2462 | Ant1 | -32.21 | -20 | Pass |

6.2 Test Graphs

