



Appendix C

RF Test Data for 2.4GWIFI(Conducted Measurement)

Product Name: G1 Pro/G1

Trade Mark: BOSMA

Test Model: DC0201

Environmental Conditions

| | |
|--------------------|-------------|
| Temperature: | 25.2° C |
| Relative Humidity: | 52.2% |
| ATM Pressure: | 100.0 kPa |
| Test Engineer: | Simba Huang |
| Supervised by: | Seal Chen |



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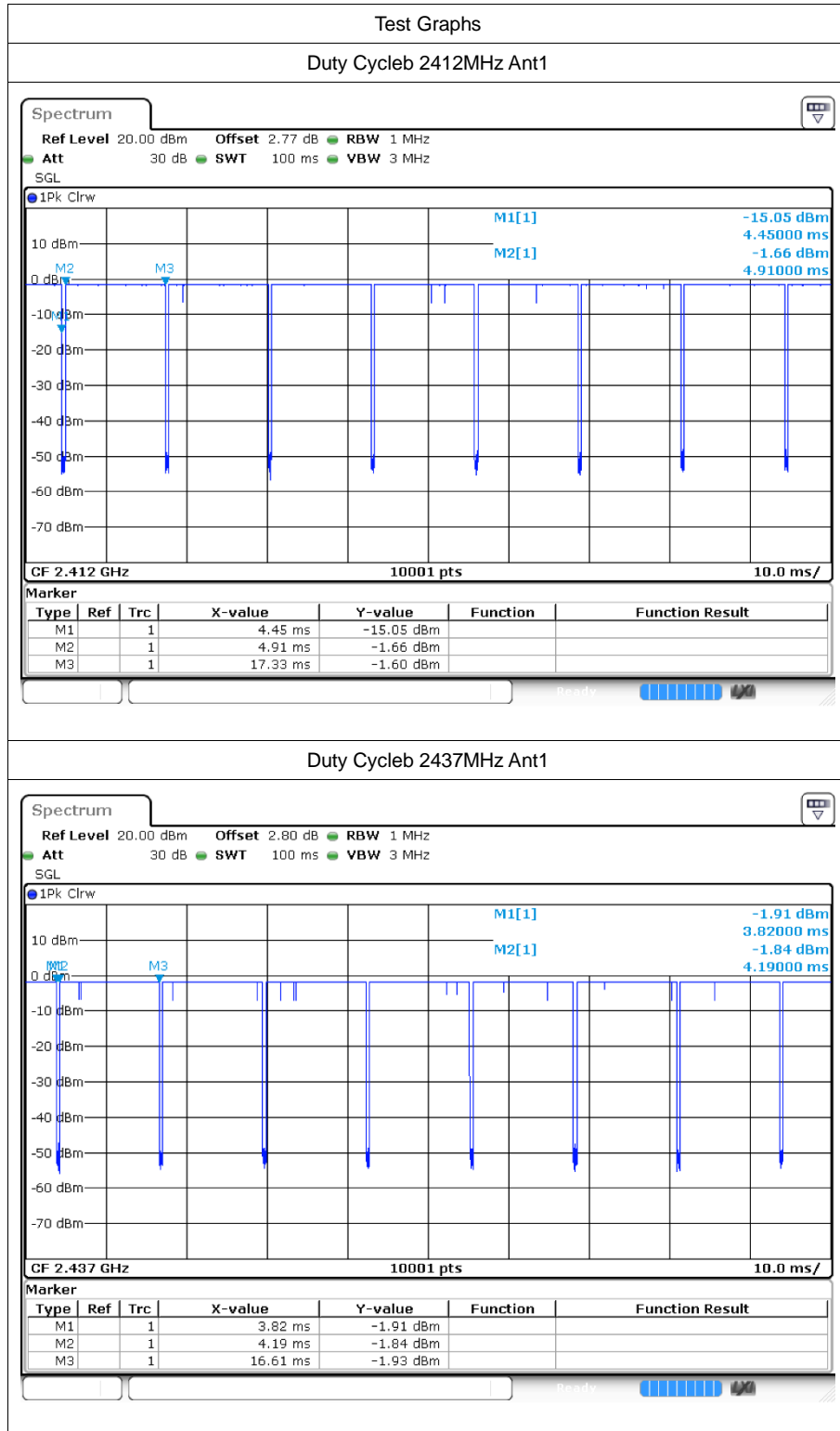
1 Duty Cycle

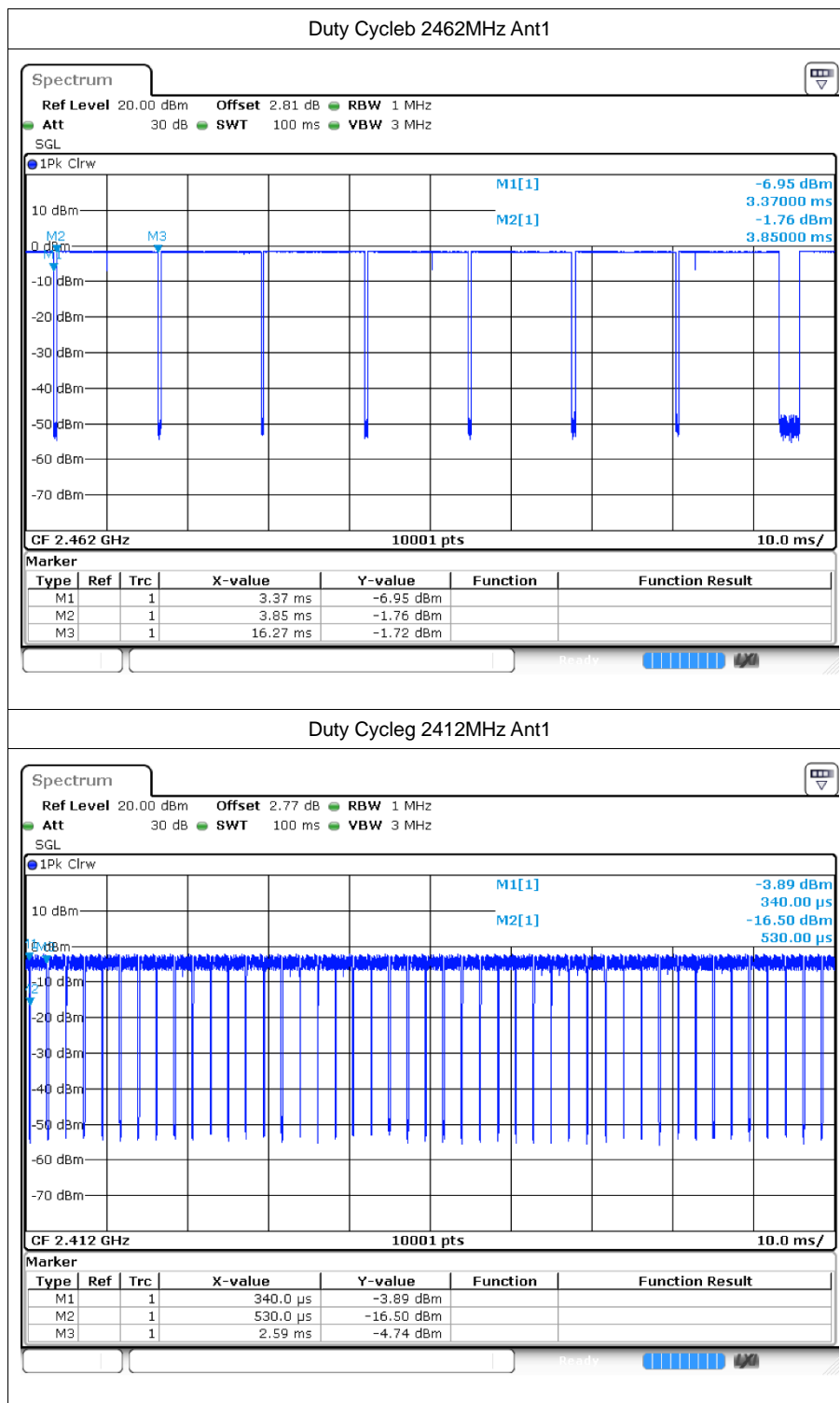
1.1 Test Result

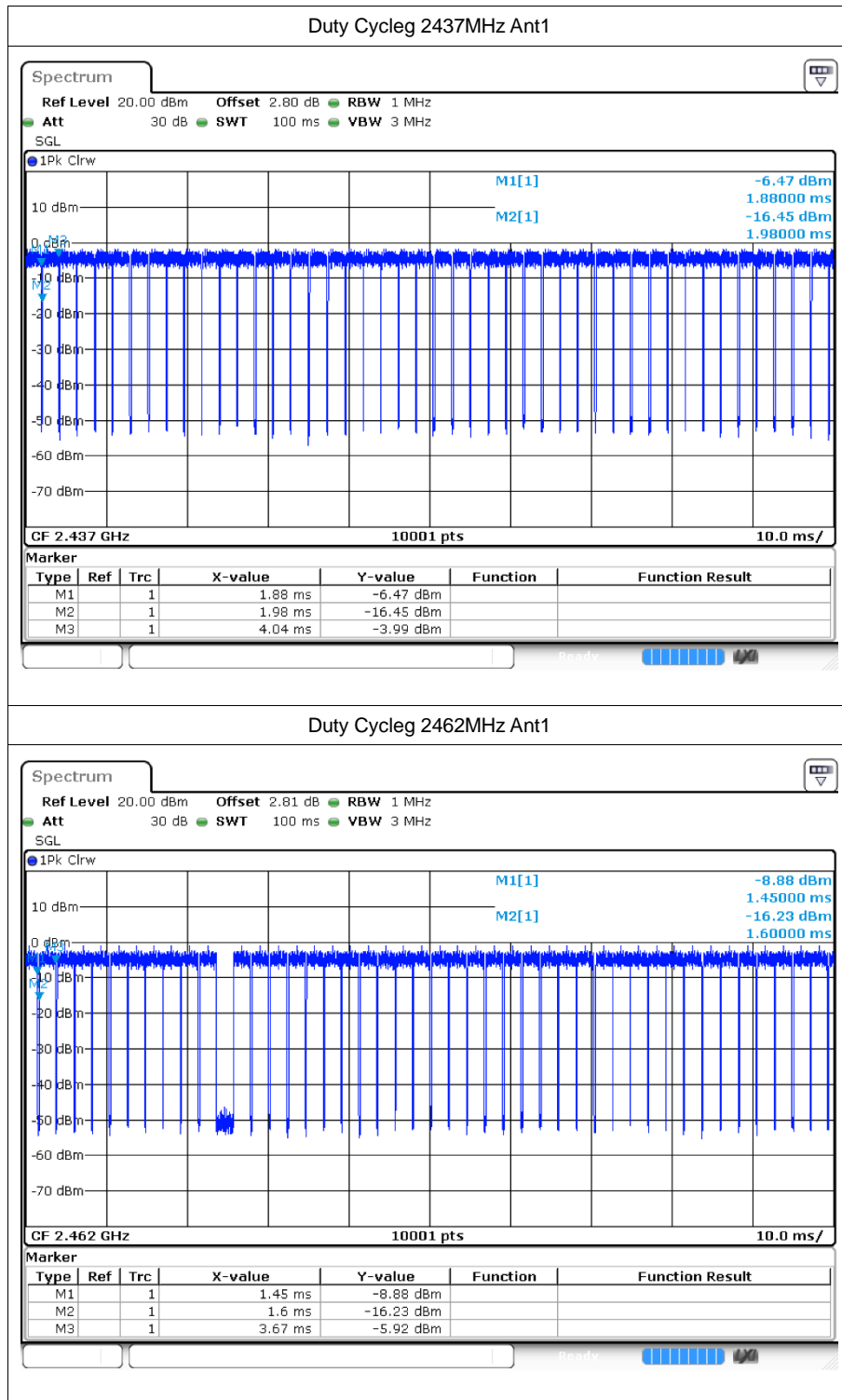
| Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | 1/T (kHz) |
|------|-----------------|---------|----------------|-----------|
| b | 2412 | Ant1 | 96.81 | 0.08 |
| b | 2437 | Ant1 | 96.81 | 0.08 |
| b | 2462 | Ant1 | 94.73 | 0.08 |
| g | 2412 | Ant1 | 96.81 | 0.08 |
| g | 2437 | Ant1 | 96.81 | 0.08 |
| g | 2462 | Ant1 | 94.73 | 0.08 |
| n20 | 2412 | Ant1 | 93.22 | 0.52 |
| n20 | 2437 | Ant1 | 92.55 | 0.52 |
| n20 | 2462 | Ant1 | 92.37 | 0.52 |
| n40 | 2422 | Ant1 | 85.98 | 1.05 |
| n40 | 2437 | Ant1 | 85.33 | 1.06 |
| n40 | 2452 | Ant1 | 85.18 | 1.05 |
| b | 2412 | Ant2 | 96.49 | 0.08 |
| b | 2437 | Ant2 | 96.74 | 0.08 |
| b | 2462 | Ant2 | 96.7 | 0.08 |
| g | 2412 | Ant2 | 96.49 | 0.08 |
| g | 2437 | Ant2 | 96.74 | 0.08 |
| g | 2462 | Ant2 | 96.7 | 0.08 |
| n20 | 2412 | Ant2 | 93.09 | 0.52 |
| n20 | 2437 | Ant2 | 92.51 | 0.52 |
| n20 | 2462 | Ant2 | 92.45 | 0.52 |
| n40 | 2422 | Ant2 | 85.87 | 1.06 |
| n40 | 2437 | Ant2 | 85.08 | 1.05 |
| n40 | 2452 | Ant2 | 84.82 | 1.05 |

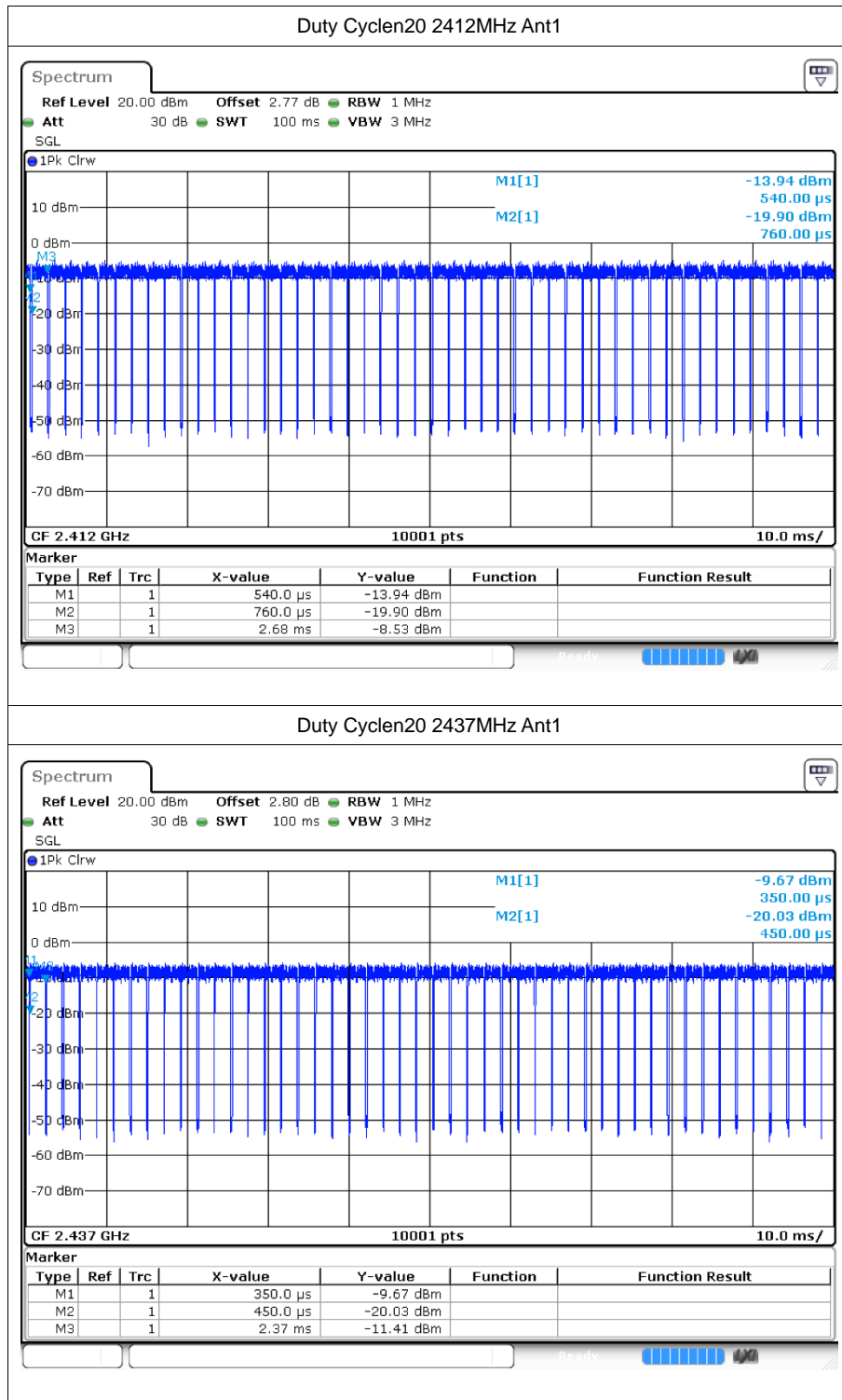


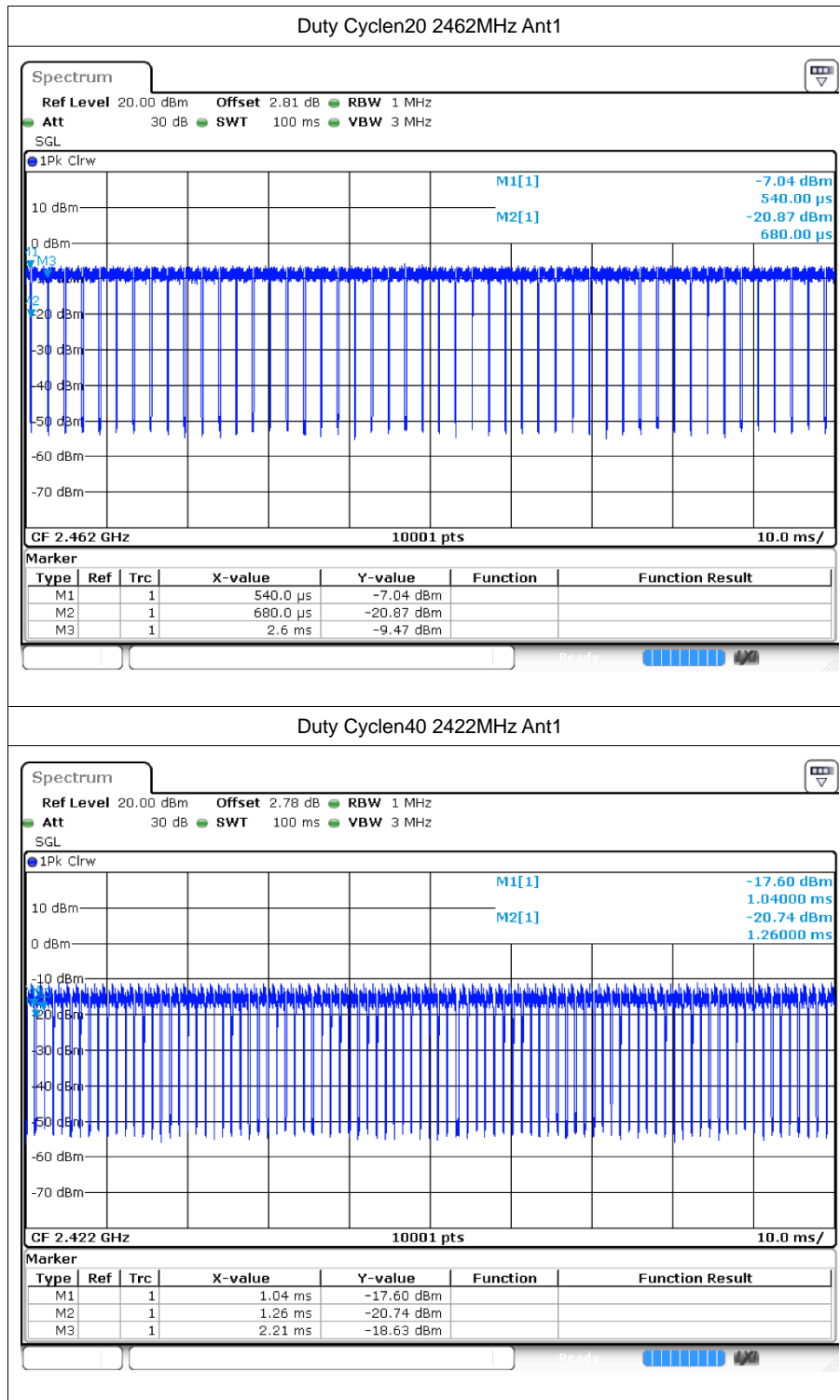
1.2 Test Graphs

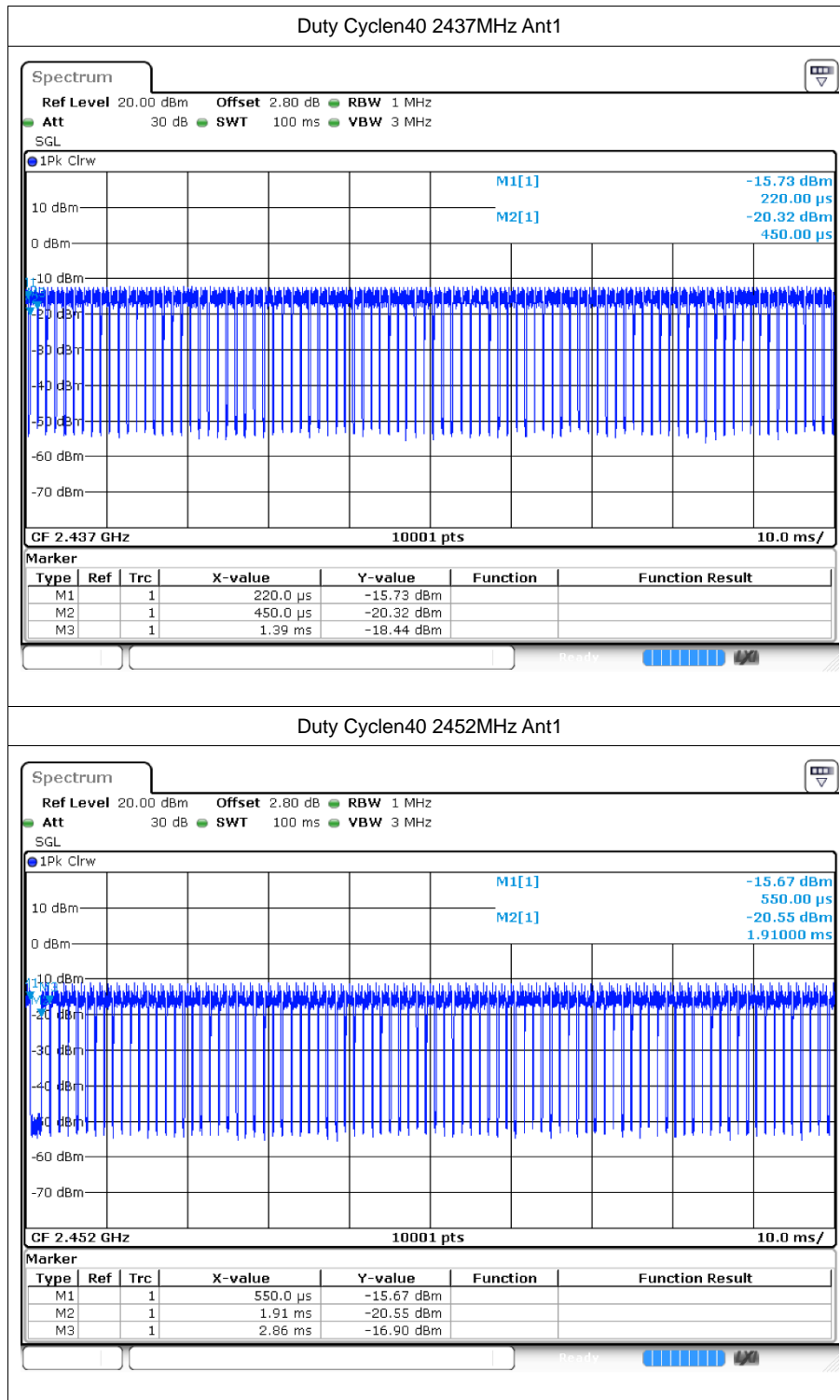








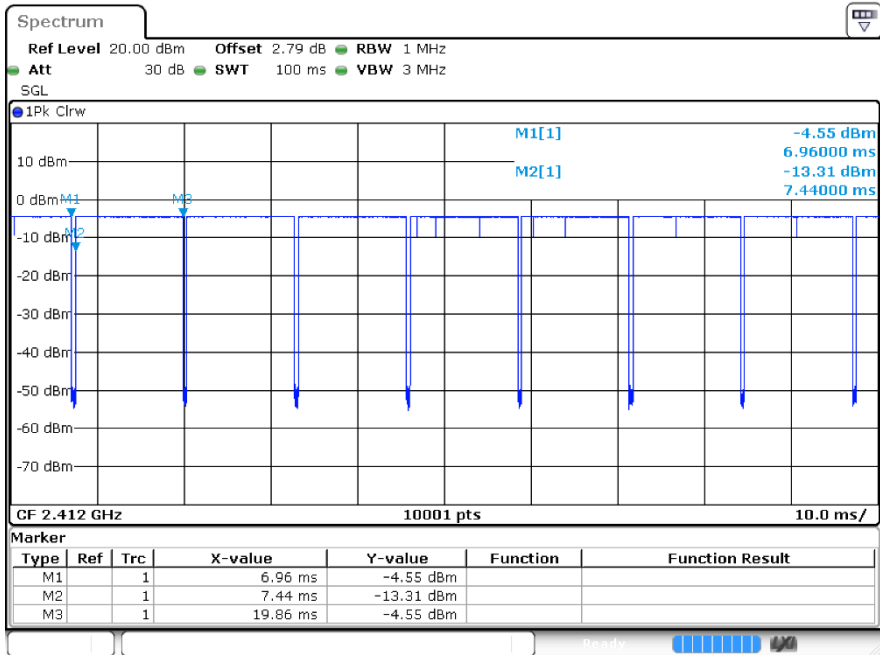




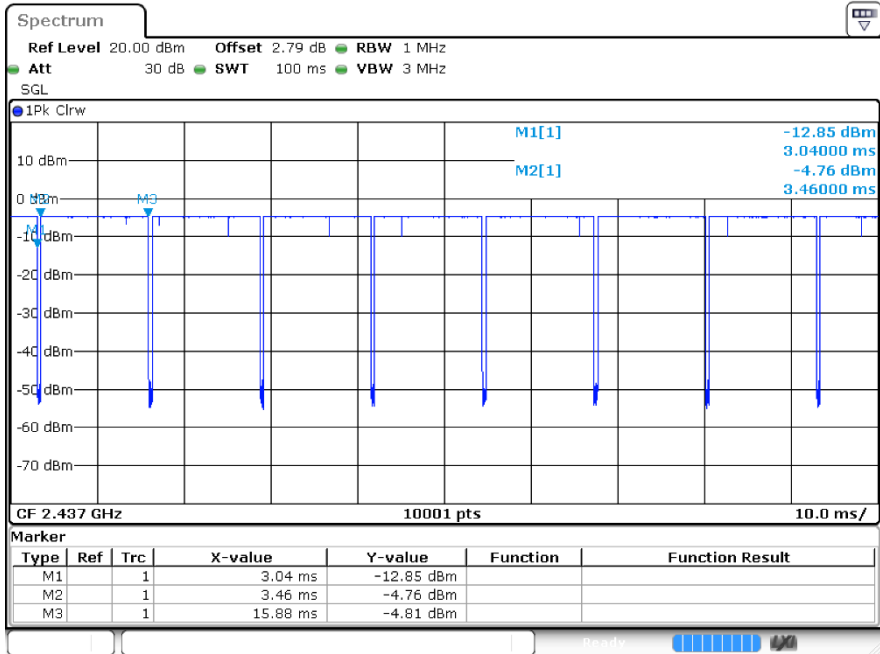


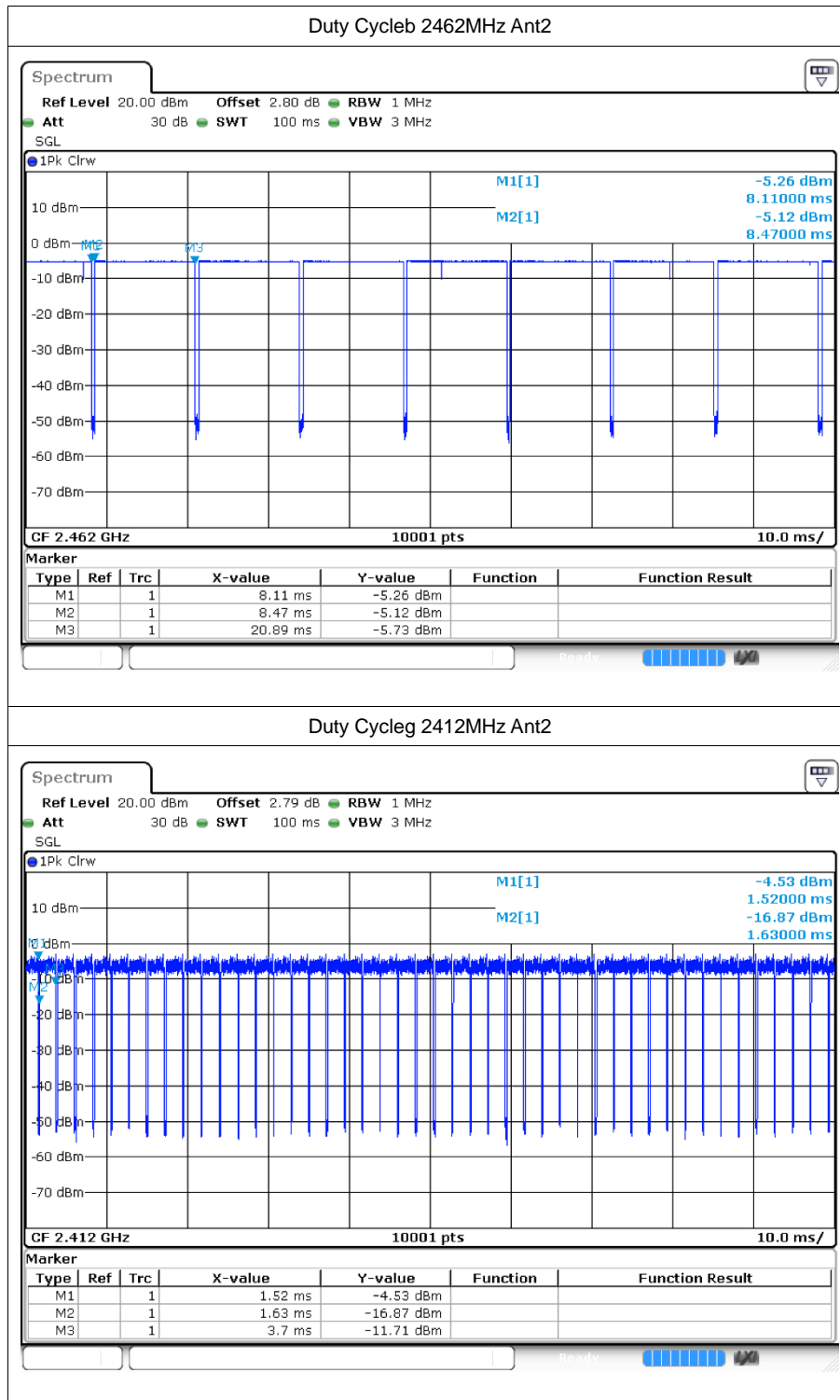
Test Graphs

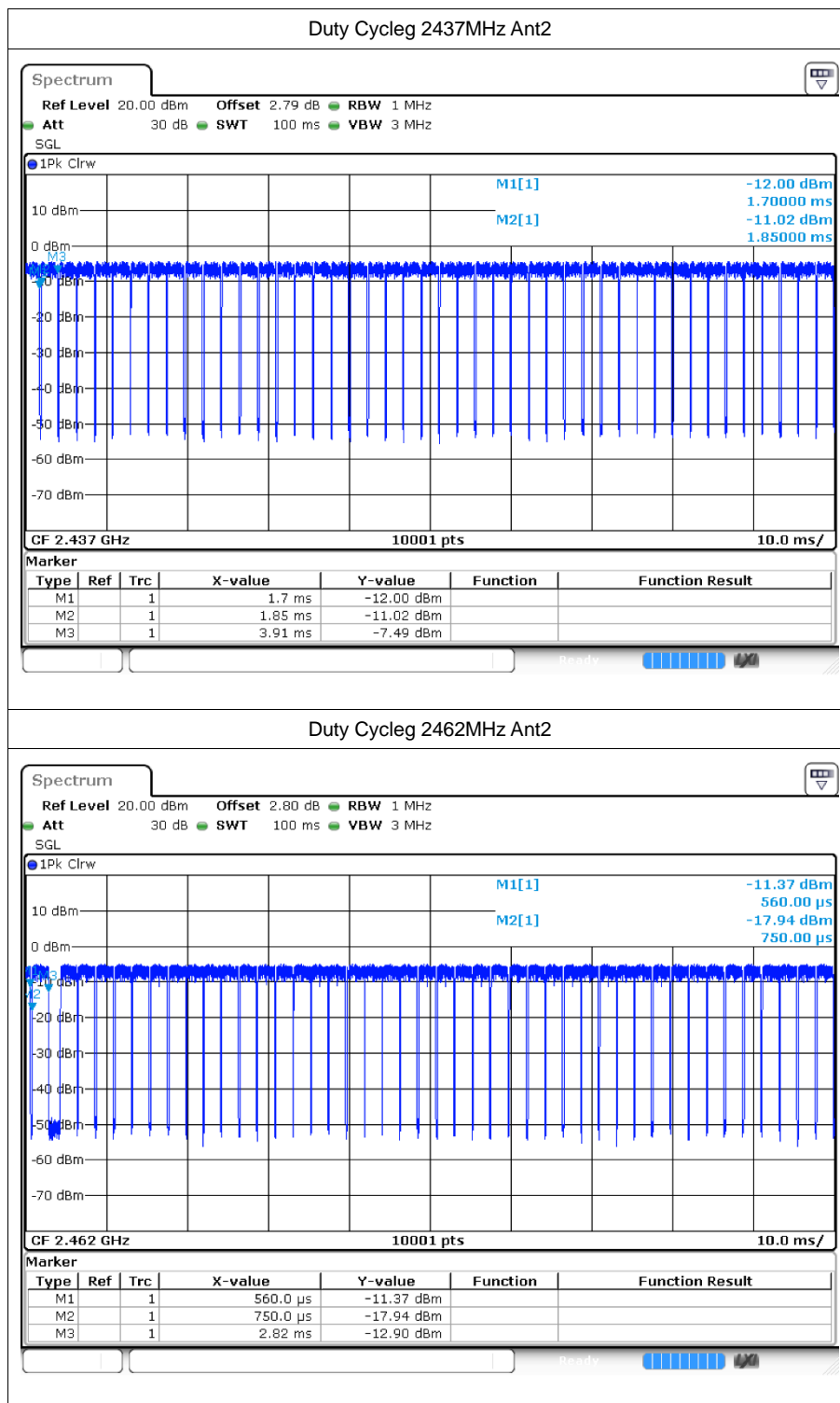
Duty Cycle 2412MHz Ant2

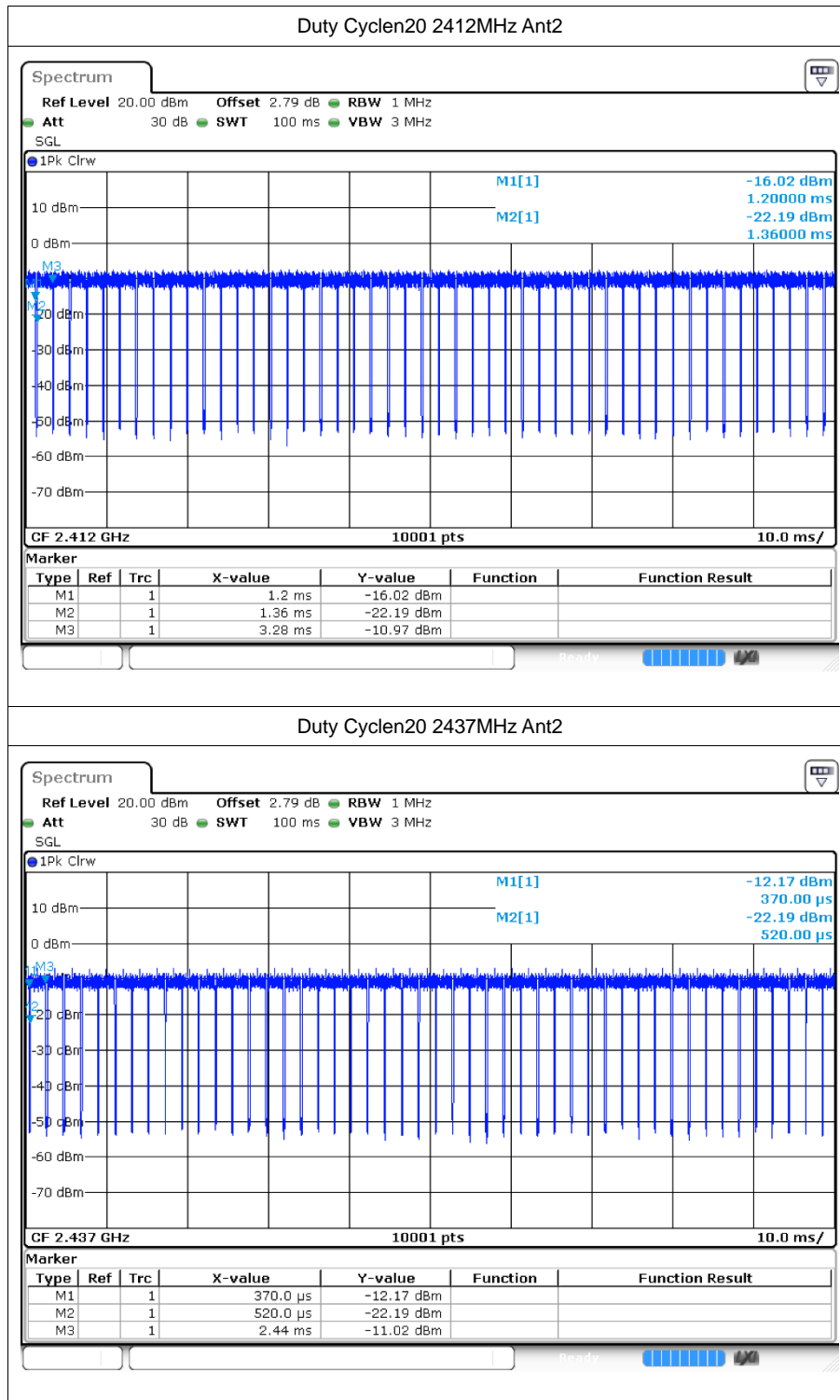


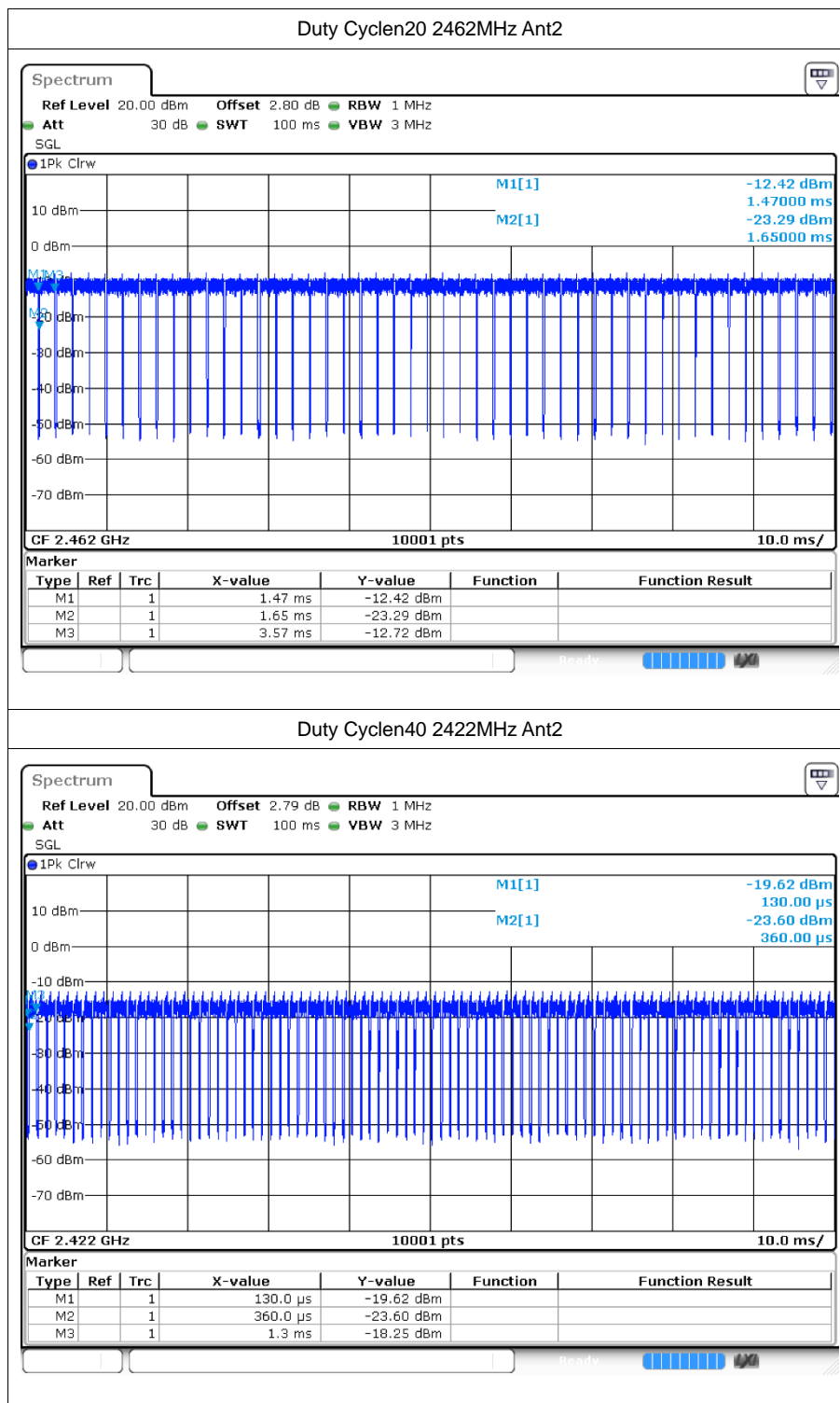
Duty Cycle 2437MHz Ant2

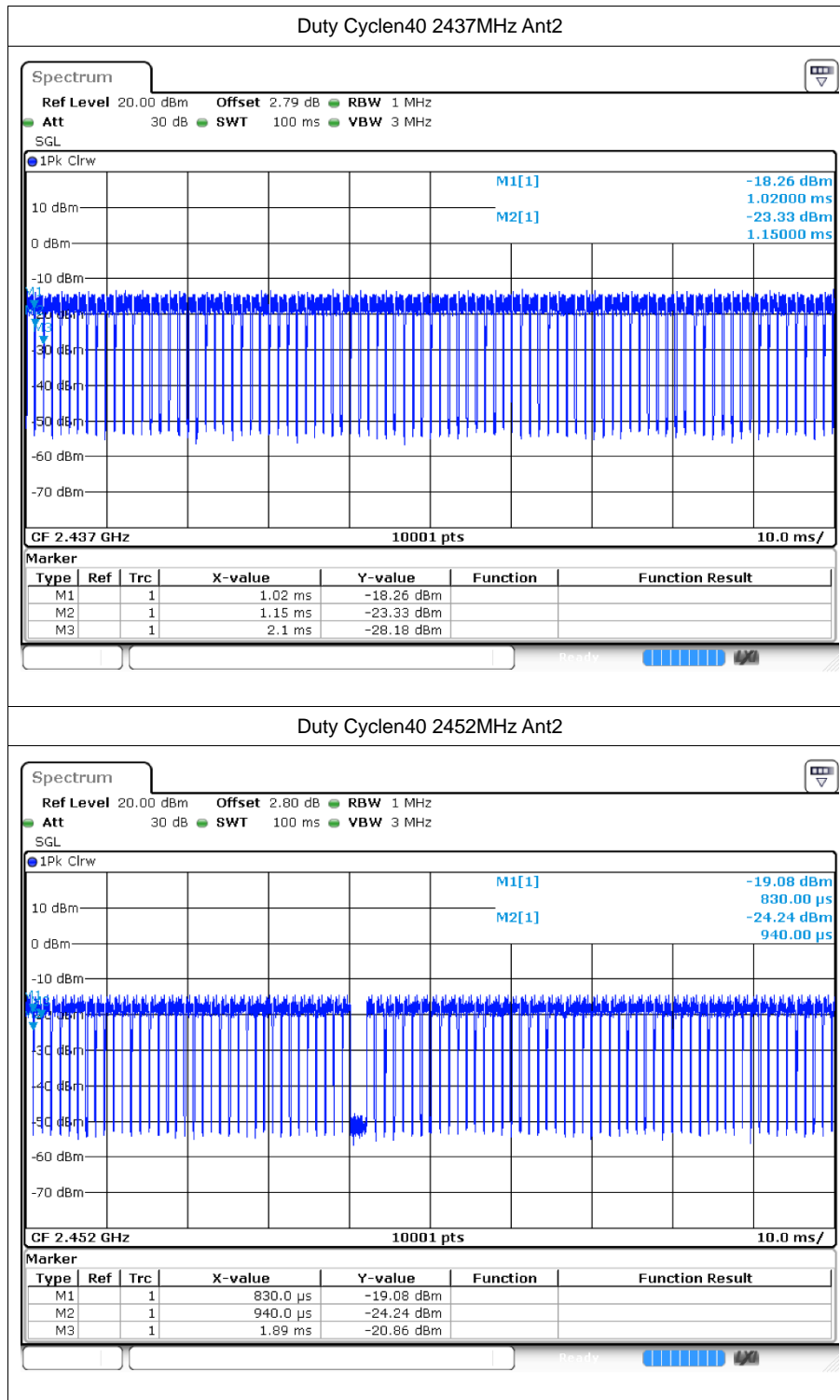












2 Maximum Conducted Output Power

2.1 Test Result

| Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|------|-----------------|---------|-----------------------|-------------|---------|
| b | 2412 | Ant1 | 9.00 | 30 | Pass |
| b | 2437 | Ant1 | 8.83 | 30 | Pass |
| b | 2462 | Ant1 | 8.97 | 30 | Pass |
| b | 2412 | Ant2 | 6.11 | 30 | Pass |
| b | 2437 | Ant2 | 5.87 | 30 | Pass |
| b | 2462 | Ant2 | 4.66 | 30 | Pass |
| g | 2412 | Ant1 | 8.6 | 30 | Pass |
| g | 2437 | Ant1 | 8.36 | 30 | Pass |
| g | 2462 | Ant1 | 8.2 | 30 | Pass |
| g | 2412 | Ant2 | 6.72 | 30 | Pass |
| g | 2437 | Ant2 | 6.44 | 30 | Pass |
| g | 2462 | Ant2 | 5.79 | 30 | Pass |
| n20 | 2412 | Ant1 | 6.63 | 30 | Pass |
| n20 | 2437 | Ant1 | 6.4 | 30 | Pass |
| n20 | 2462 | Ant1 | 6.21 | 30 | Pass |
| n20 | 2412 | Ant2 | 4.61 | 30 | Pass |
| n20 | 2437 | Ant2 | 4.34 | 30 | Pass |
| n20 | 2462 | Ant2 | 3.68 | 30 | Pass |
| n20 | 2412 | Sum | 8.75 | 29.99 | Pass |
| n20 | 2437 | Sum | 8.5 | 29.99 | Pass |
| n20 | 2462 | Sum | 8.14 | 29.99 | Pass |
| n40 | 2422 | Ant1 | 6.24 | 30 | Pass |
| n40 | 2437 | Ant1 | 6.11 | 30 | Pass |
| n40 | 2452 | Ant1 | 5.89 | 30 | Pass |
| n40 | 2422 | Ant2 | 4.13 | 30 | Pass |
| n40 | 2437 | Ant2 | 4 | 30 | Pass |
| n40 | 2452 | Ant2 | 3.52 | 30 | Pass |
| n40 | 2422 | Sum | 8.32 | 29.99 | Pass |
| n40 | 2437 | Sum | 8.19 | 29.99 | Pass |
| n40 | 2452 | Sum | 7.88 | 29.99 | Pass |



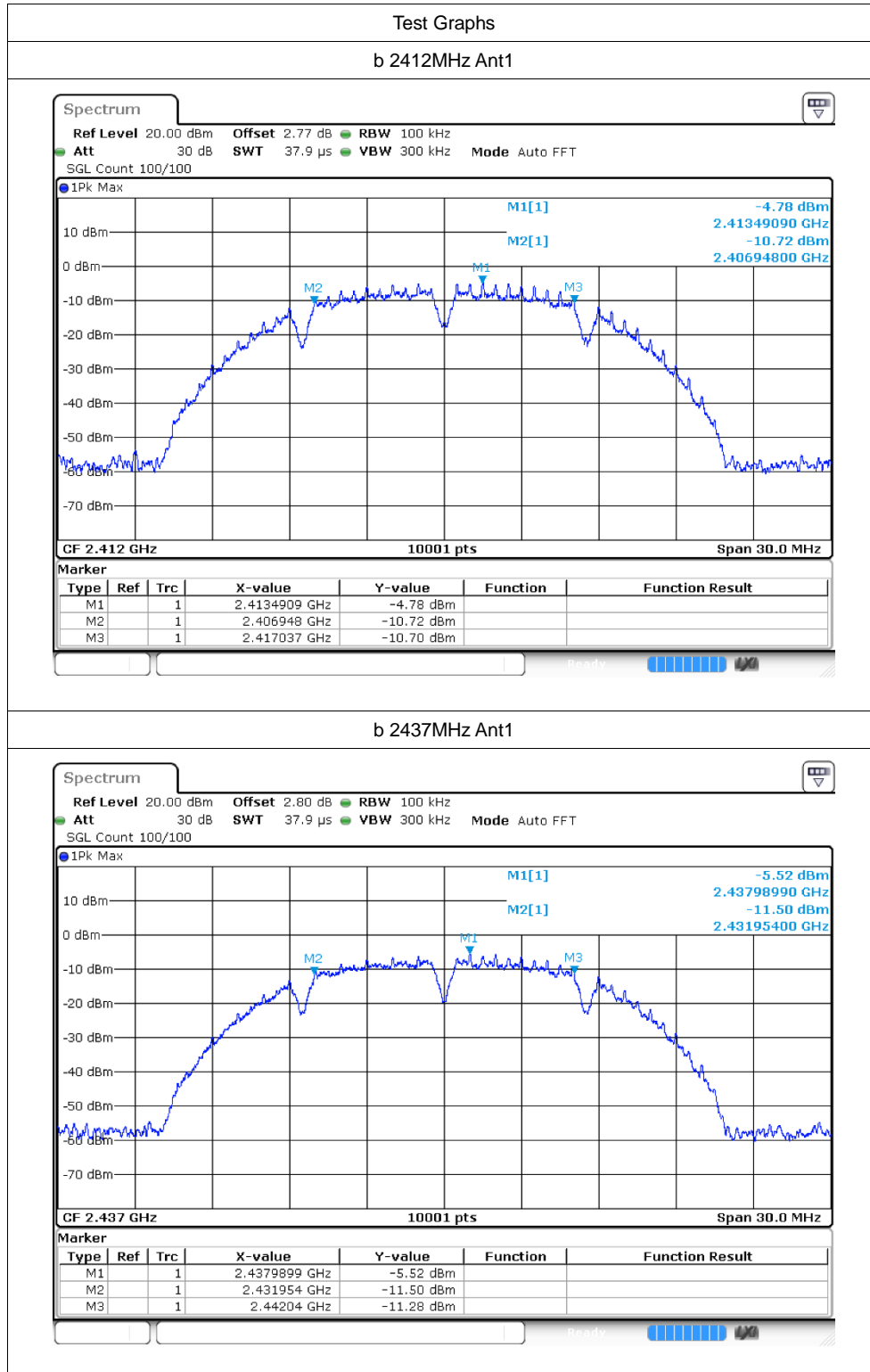
3 -6dB Bandwidth

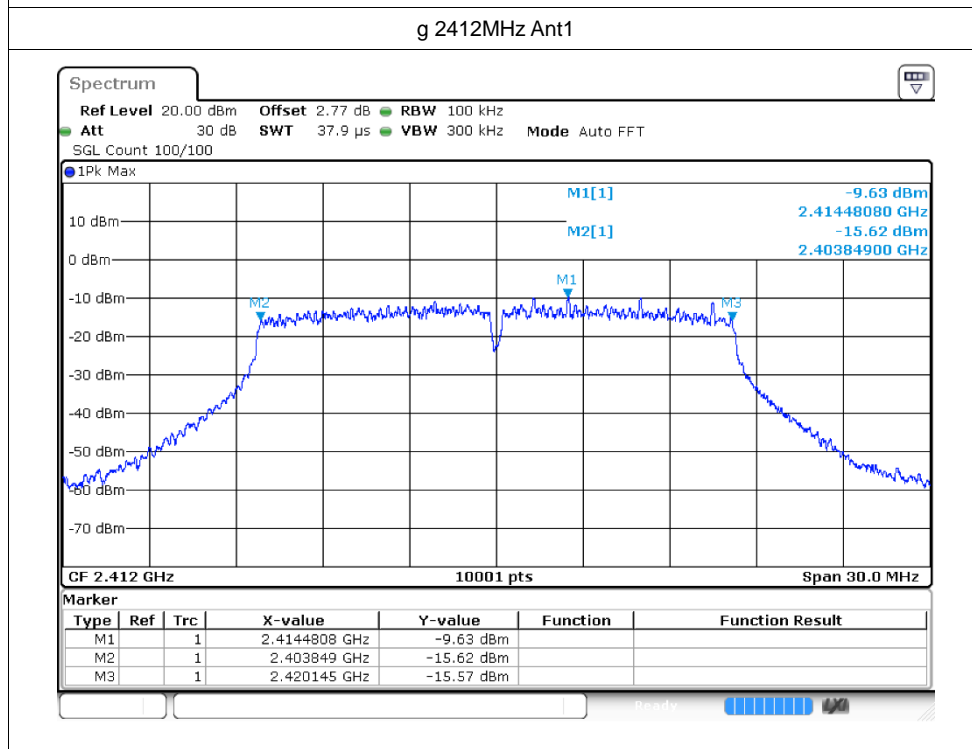
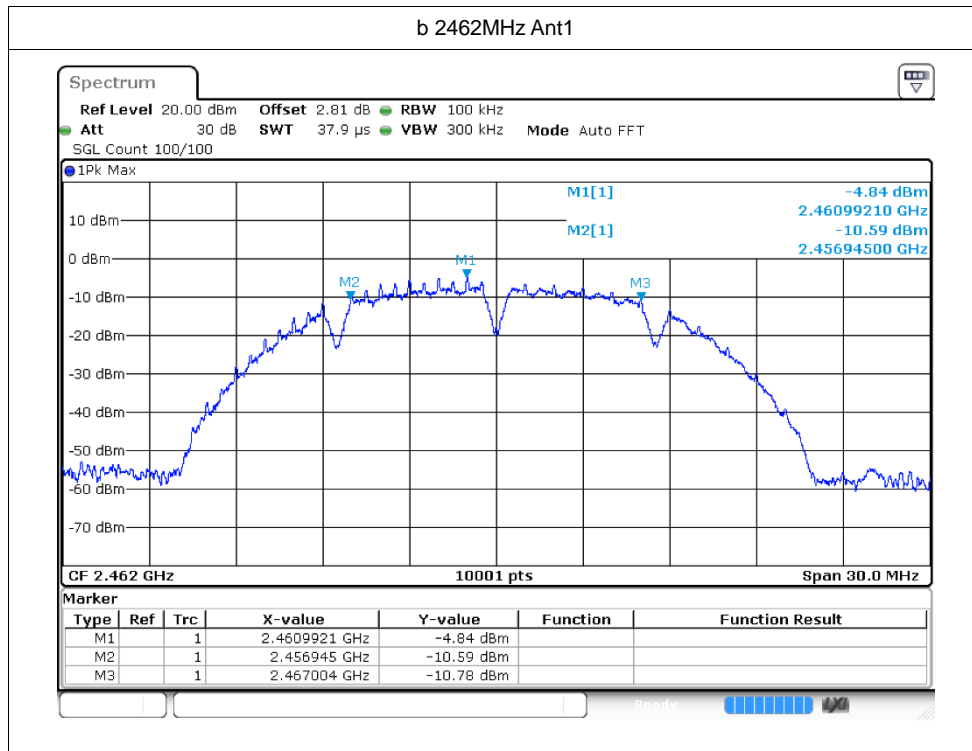
3.1 Test Result

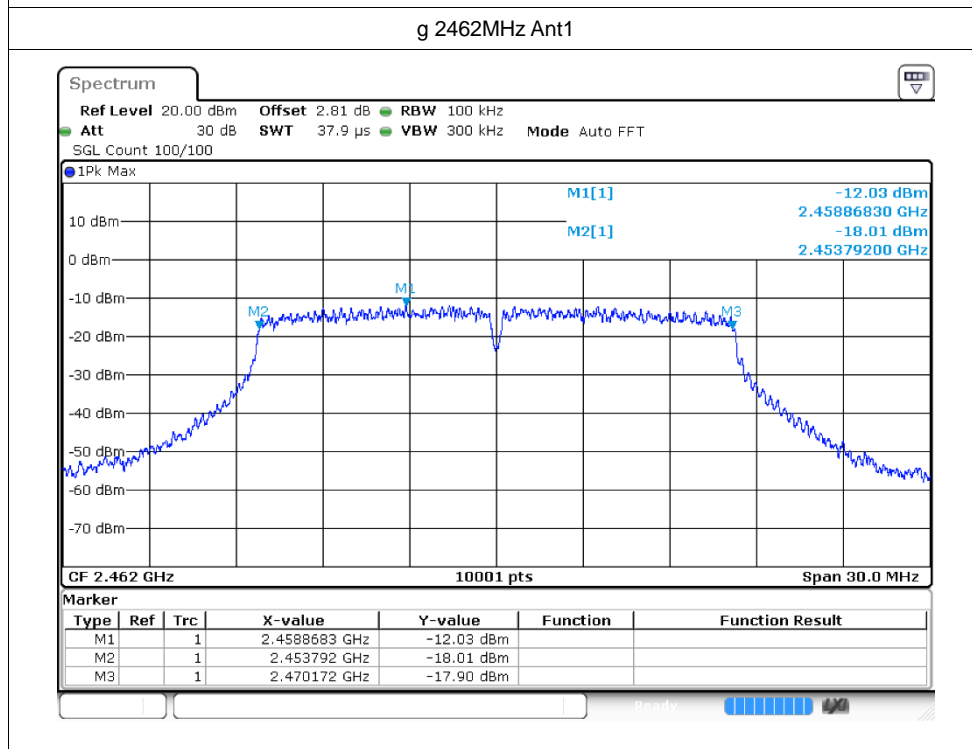
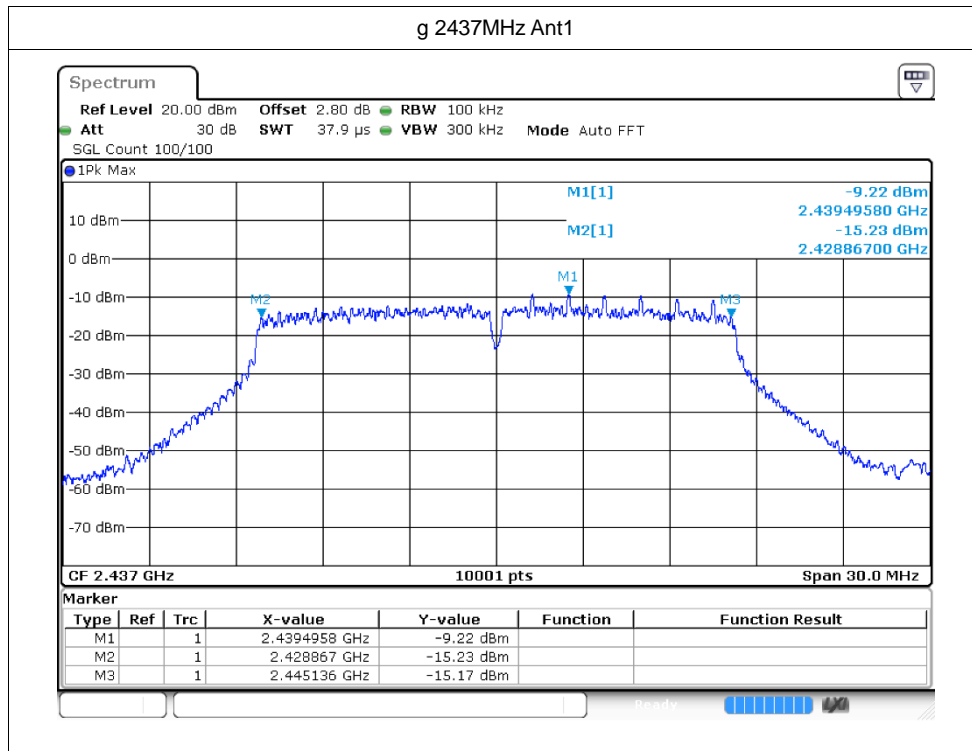
| Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|------|-----------------|---------|-----------------------|-----------------------------|---------|
| b | 2412 | Ant1 | 10.089 | 0.5 | Pass |
| b | 2437 | Ant1 | 10.086 | 0.5 | Pass |
| b | 2462 | Ant1 | 10.059 | 0.5 | Pass |
| g | 2412 | Ant1 | 16.296 | 0.5 | Pass |
| g | 2437 | Ant1 | 16.269 | 0.5 | Pass |
| g | 2462 | Ant1 | 16.38 | 0.5 | Pass |
| n20 | 2412 | Ant1 | 17.598 | 0.5 | Pass |
| n20 | 2437 | Ant1 | 17.58 | 0.5 | Pass |
| n20 | 2462 | Ant1 | 16.293 | 0.5 | Pass |
| n40 | 2422 | Ant1 | 35.022 | 0.5 | Pass |
| n40 | 2437 | Ant1 | 36.312 | 0.5 | Pass |
| n40 | 2452 | Ant1 | 31.656 | 0.5 | Pass |
| b | 2412 | Ant2 | 10.074 | 0.5 | Pass |
| b | 2437 | Ant2 | 10.071 | 0.5 | Pass |
| b | 2462 | Ant2 | 10.068 | 0.5 | Pass |
| g | 2412 | Ant2 | 16.353 | 0.5 | Pass |
| g | 2437 | Ant2 | 16.356 | 0.5 | Pass |
| g | 2462 | Ant2 | 15.714 | 0.5 | Pass |
| n20 | 2412 | Ant2 | 17.589 | 0.5 | Pass |
| n20 | 2437 | Ant2 | 17.613 | 0.5 | Pass |
| n20 | 2462 | Ant2 | 16.5 | 0.5 | Pass |
| n40 | 2422 | Ant2 | 36.324 | 0.5 | Pass |
| n40 | 2437 | Ant2 | 35.466 | 0.5 | Pass |
| n40 | 2452 | Ant2 | 35.658 | 0.5 | Pass |

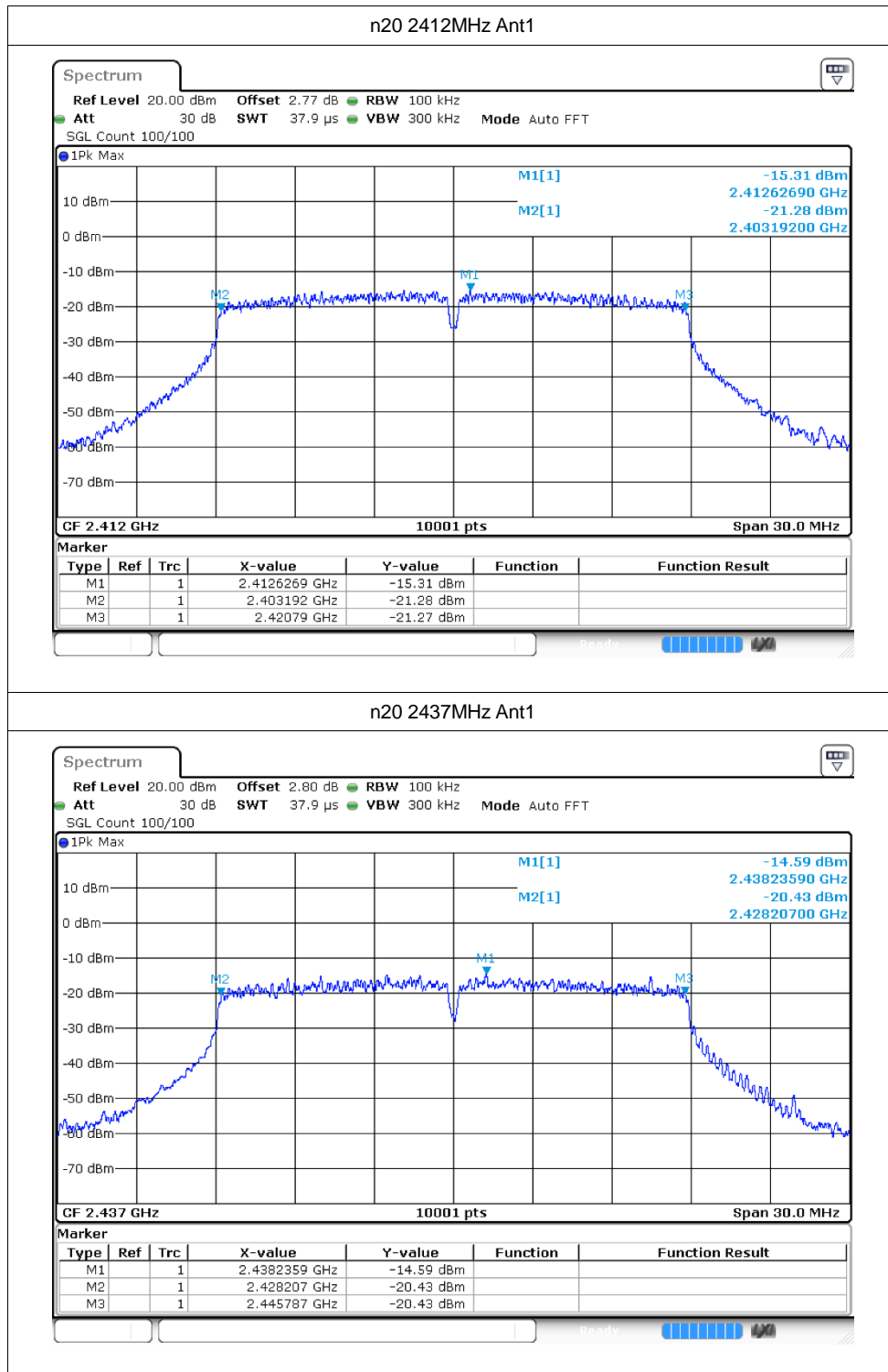


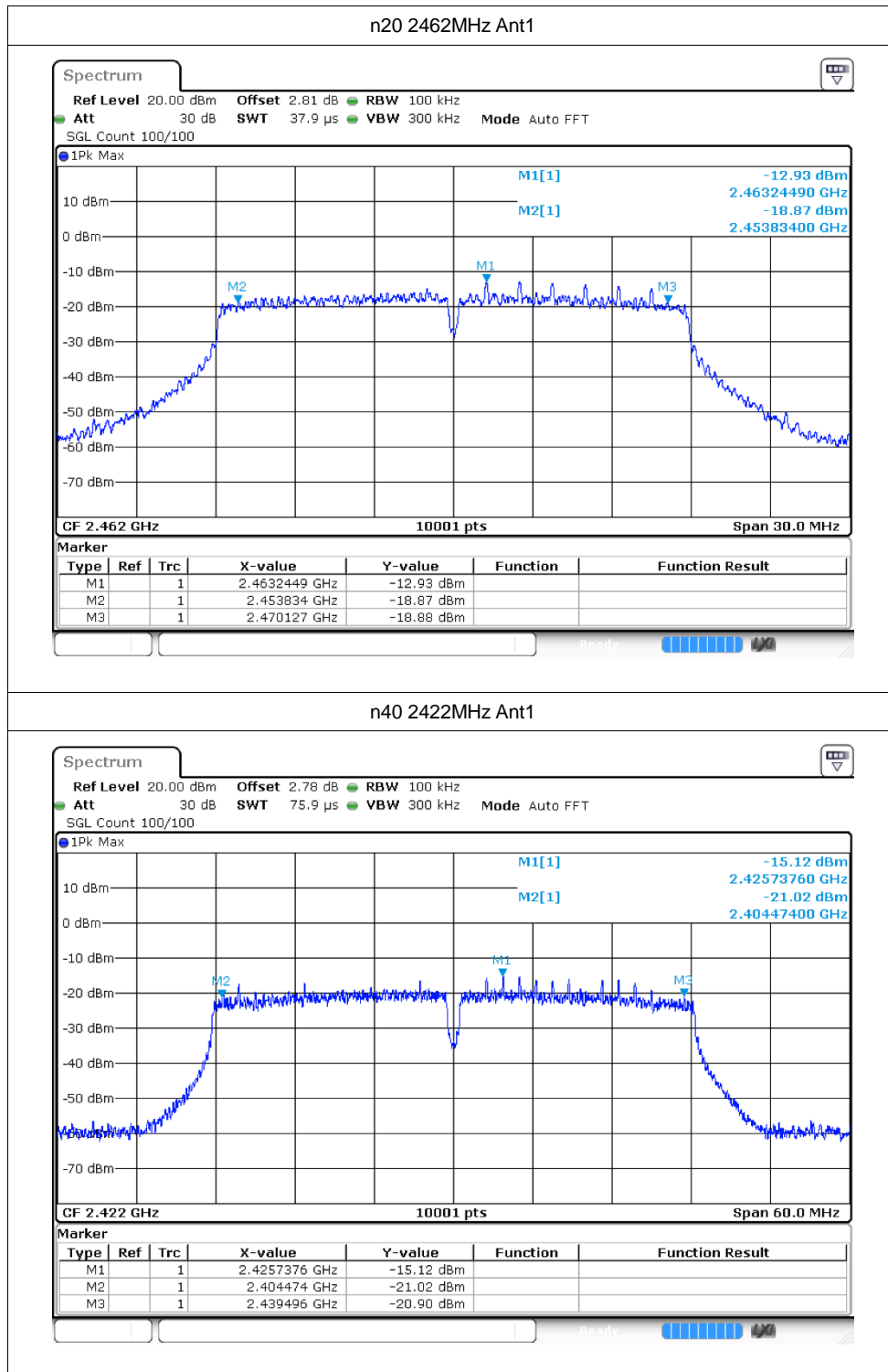
3.2 Test Graphs

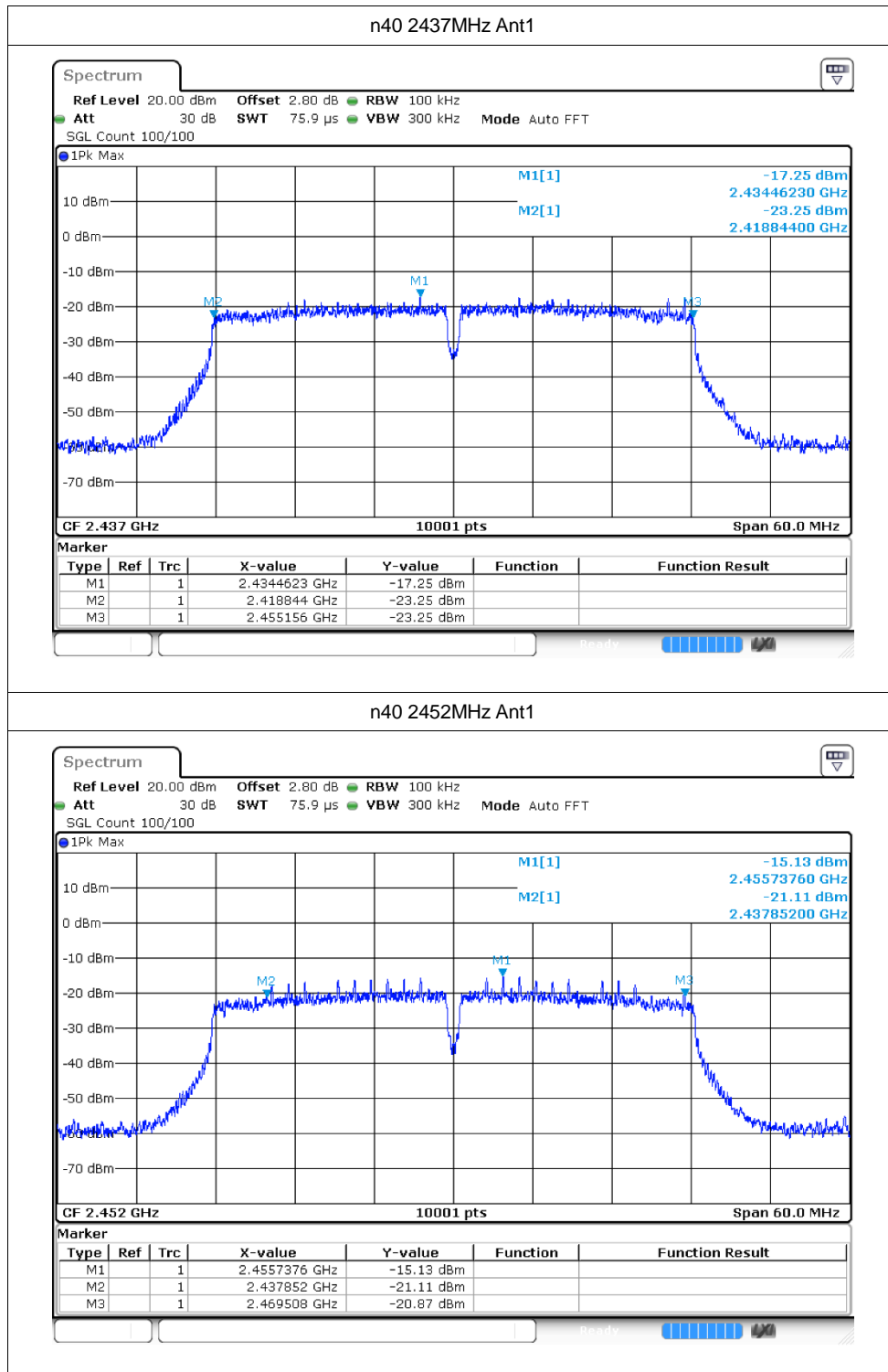




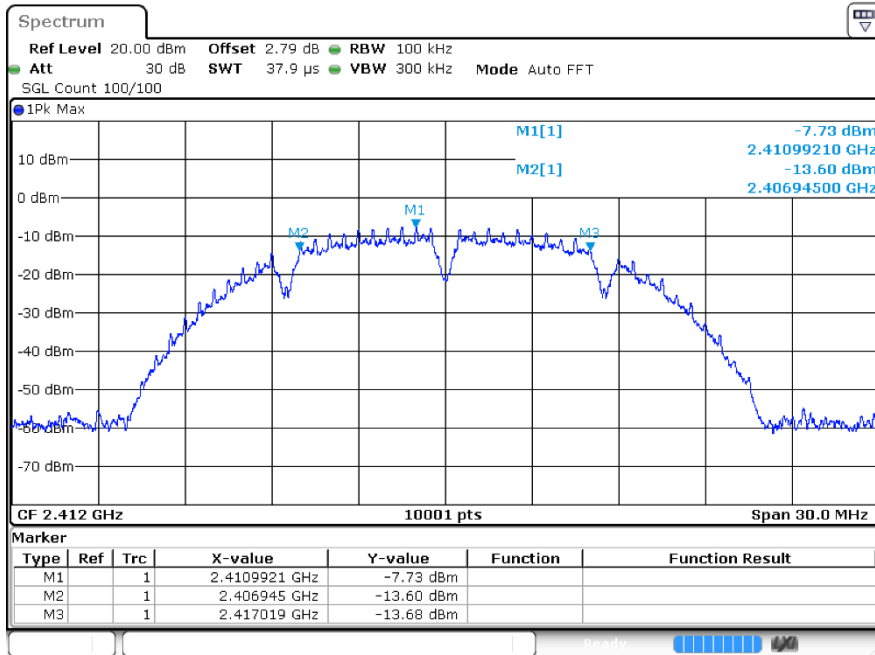




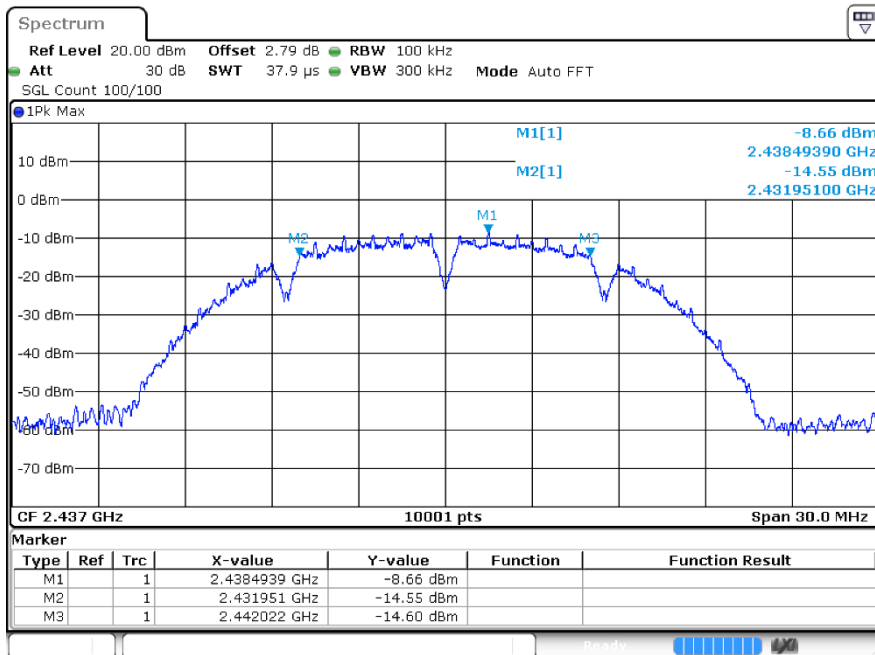


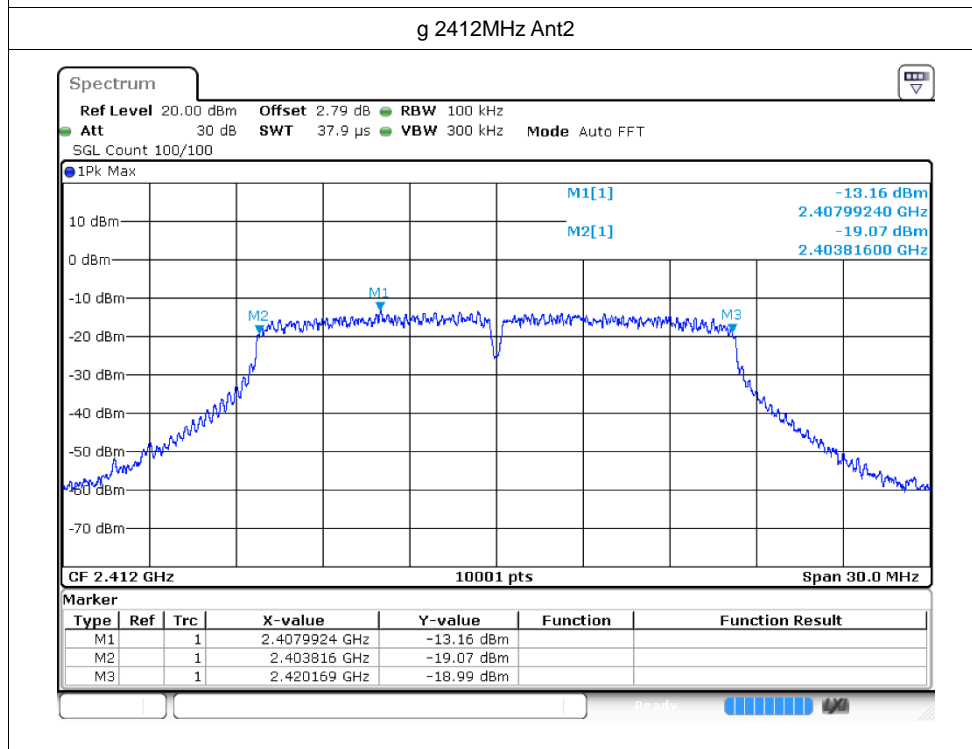
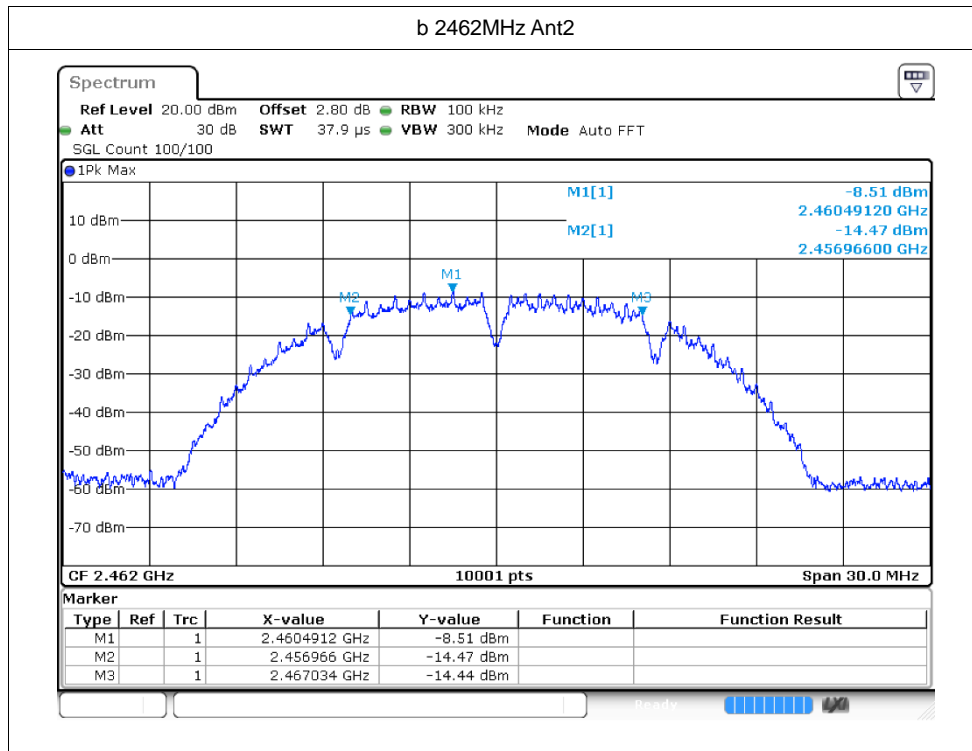


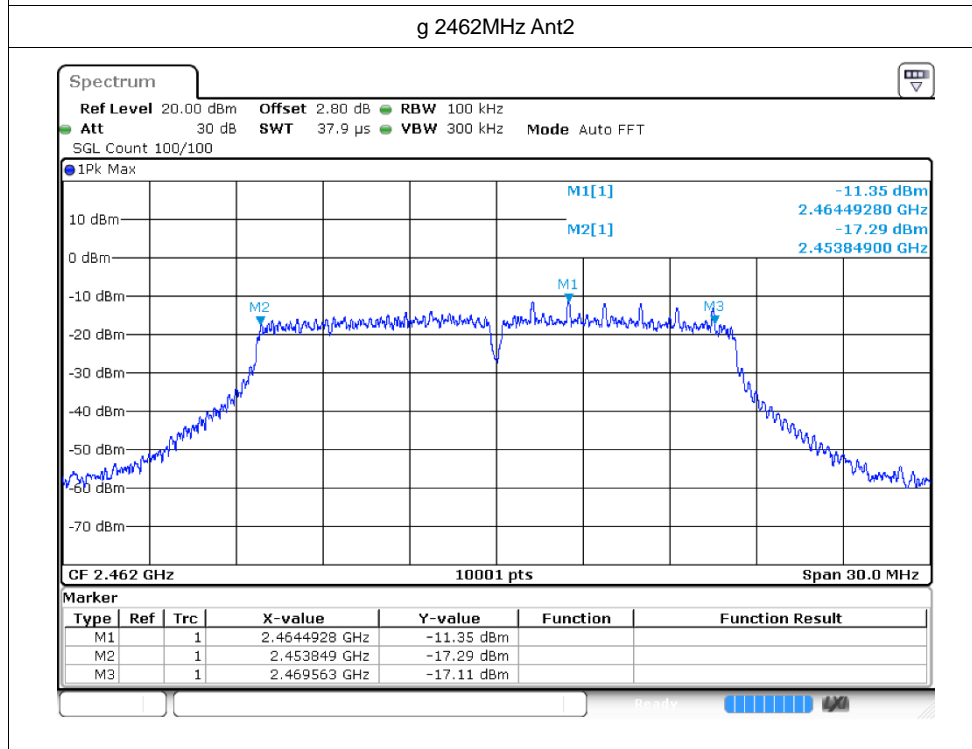
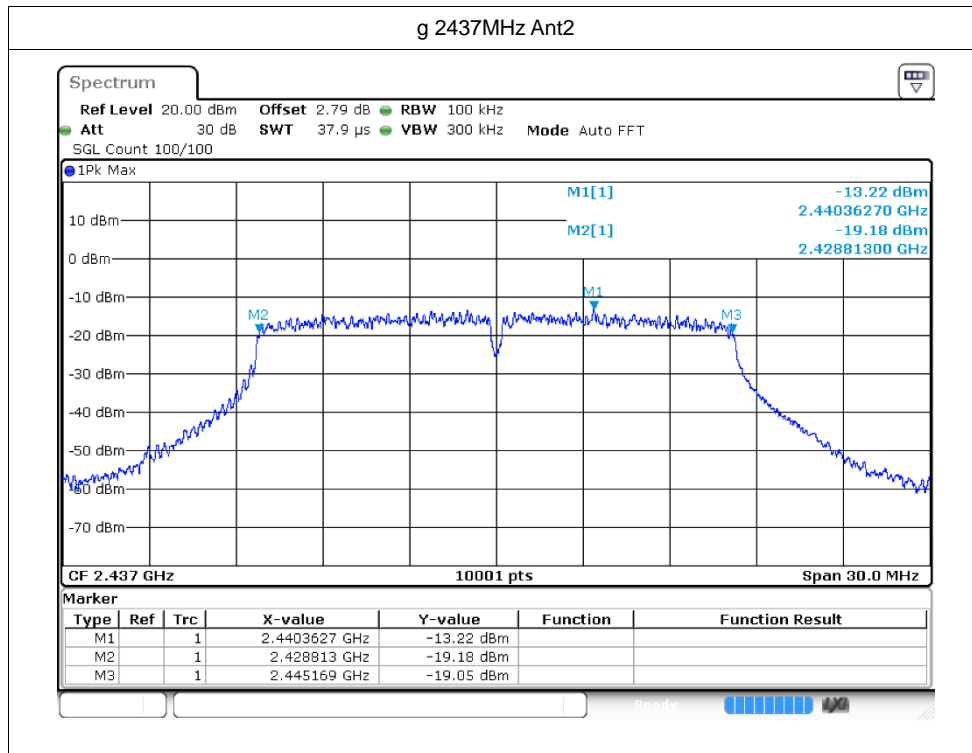
b 2412MHz Ant2

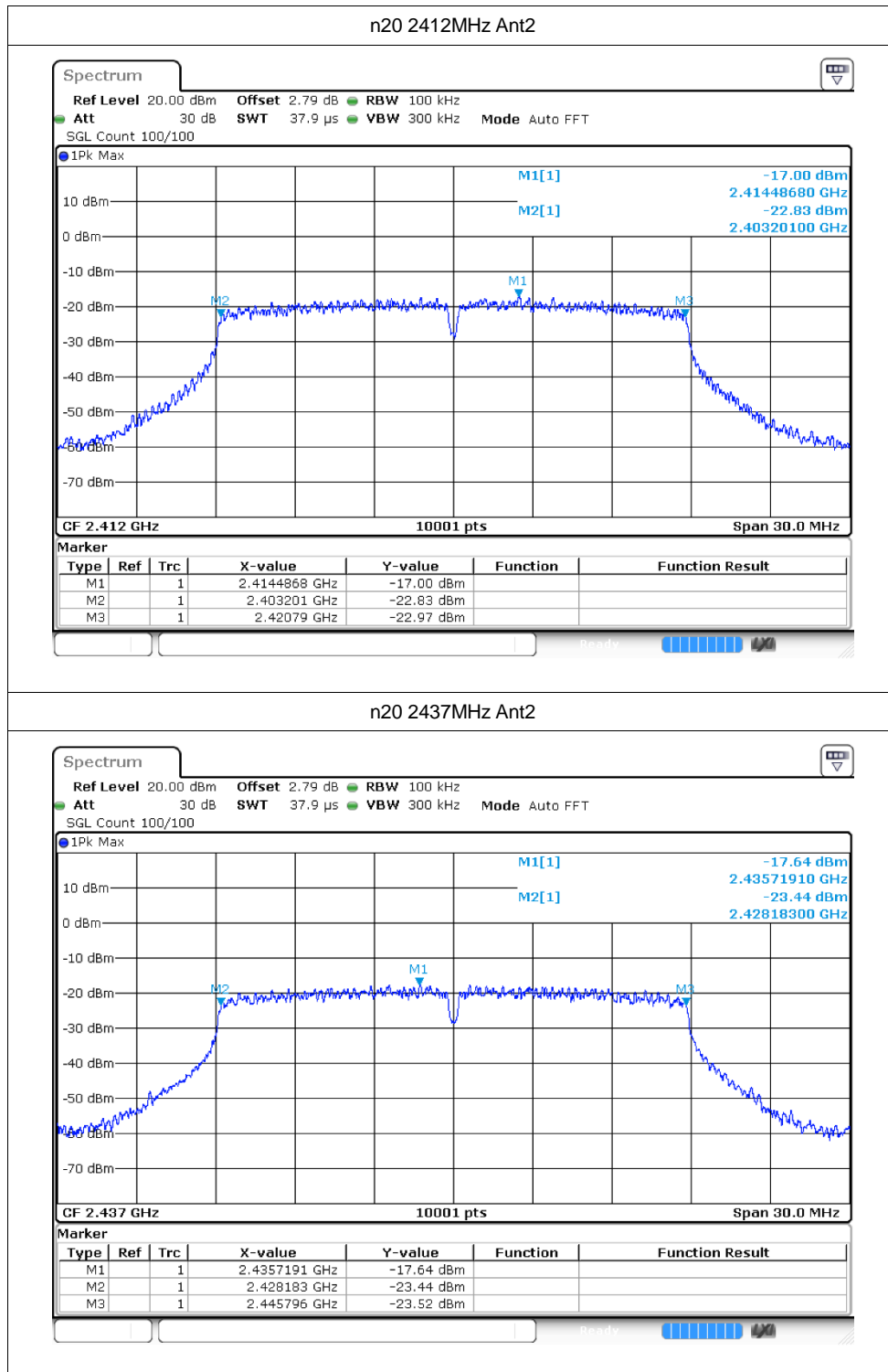


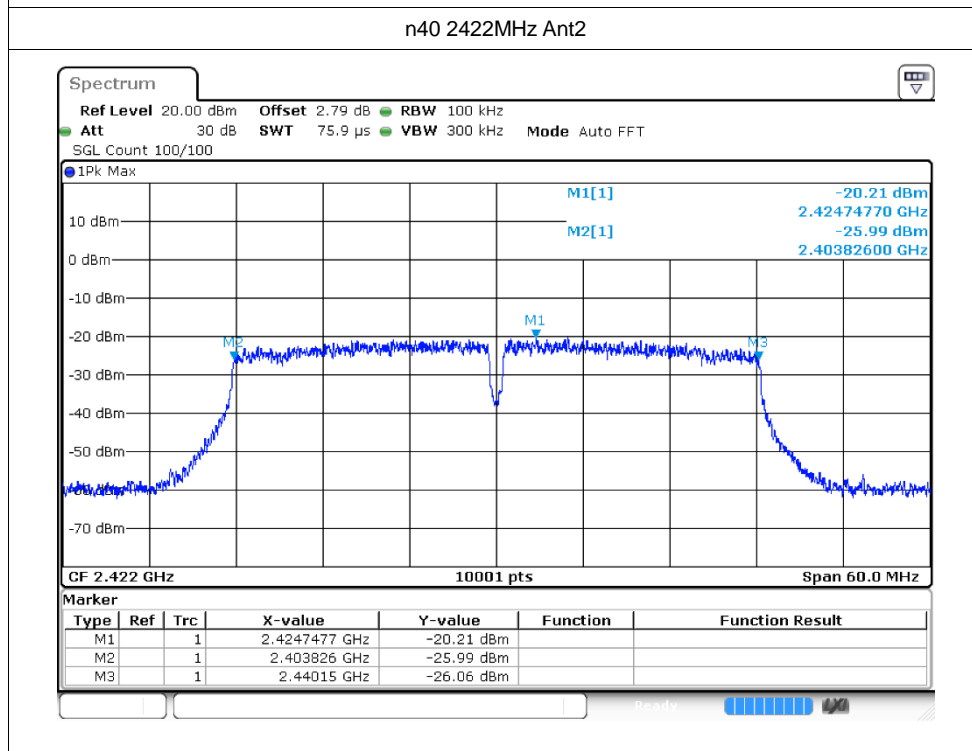
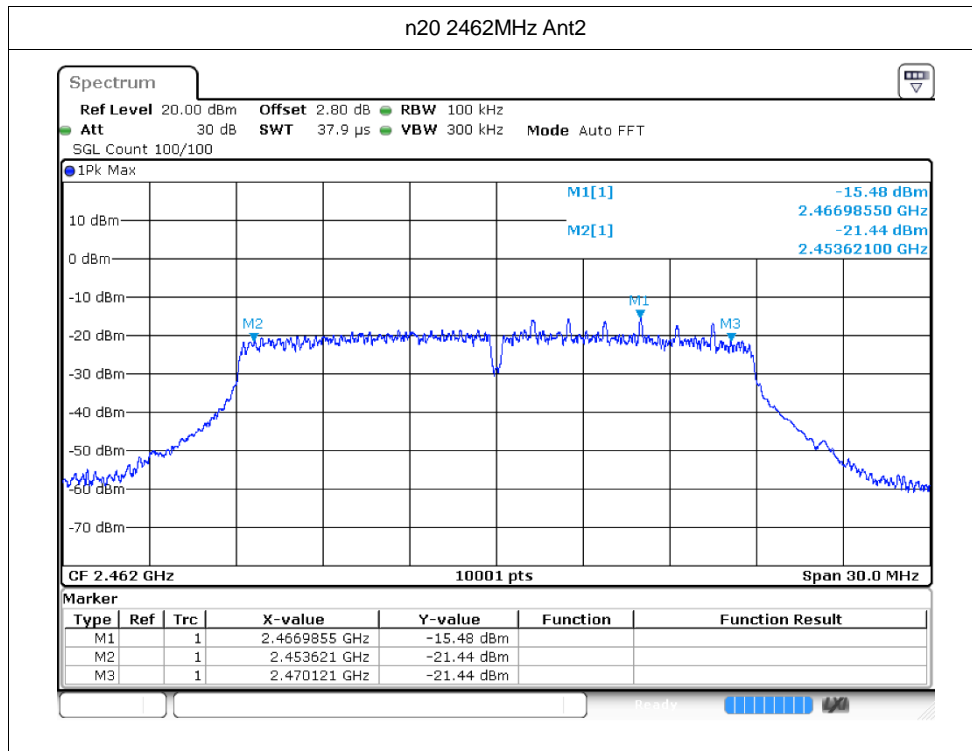
b 2437MHz Ant2

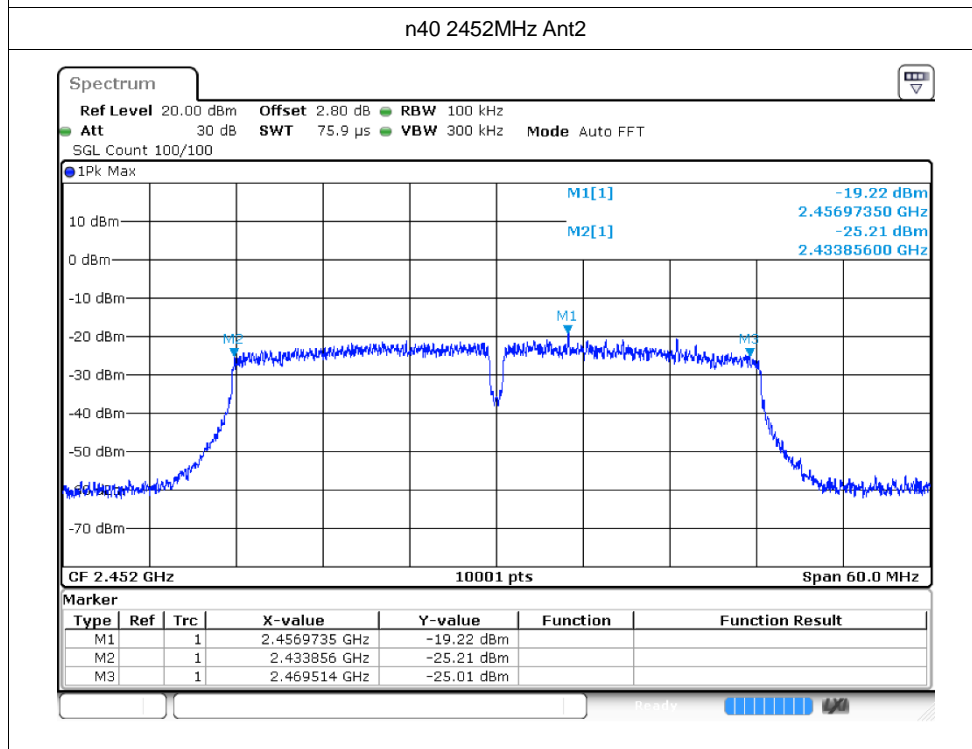
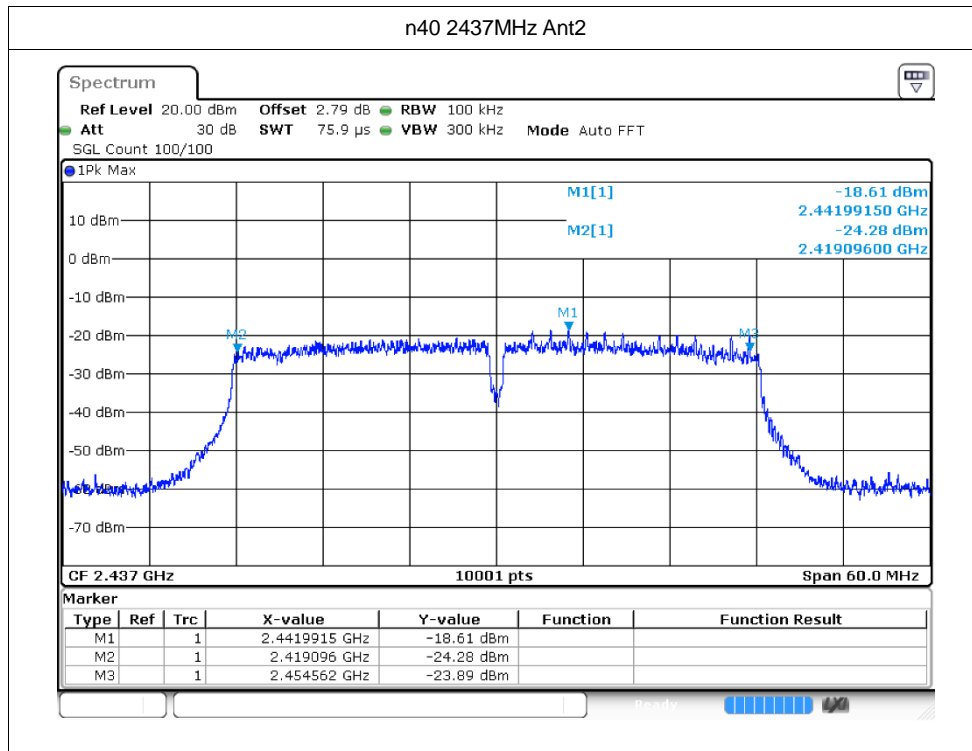












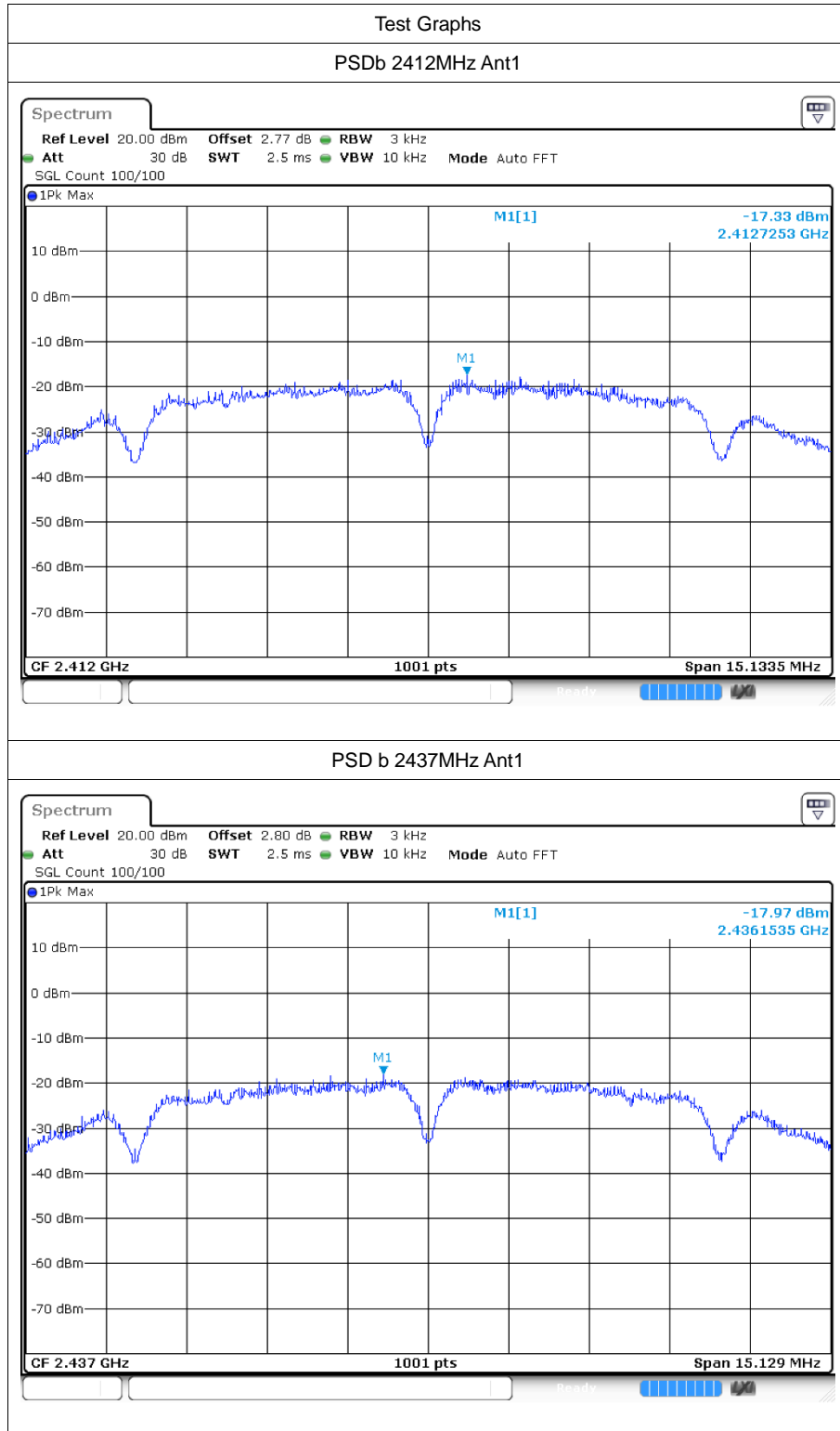
4 Maximum Power Spectral Density Level

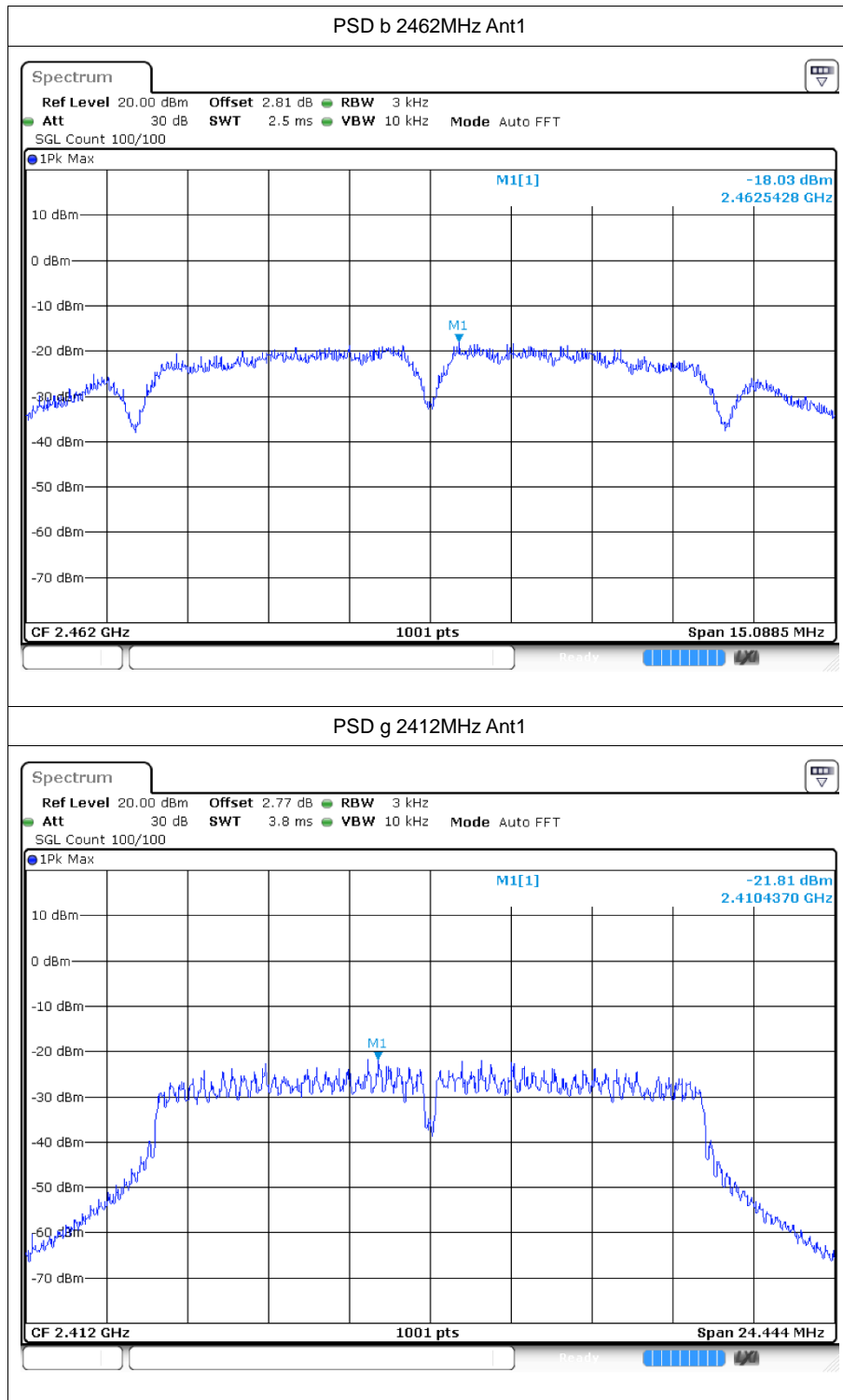
4.1 Test Result

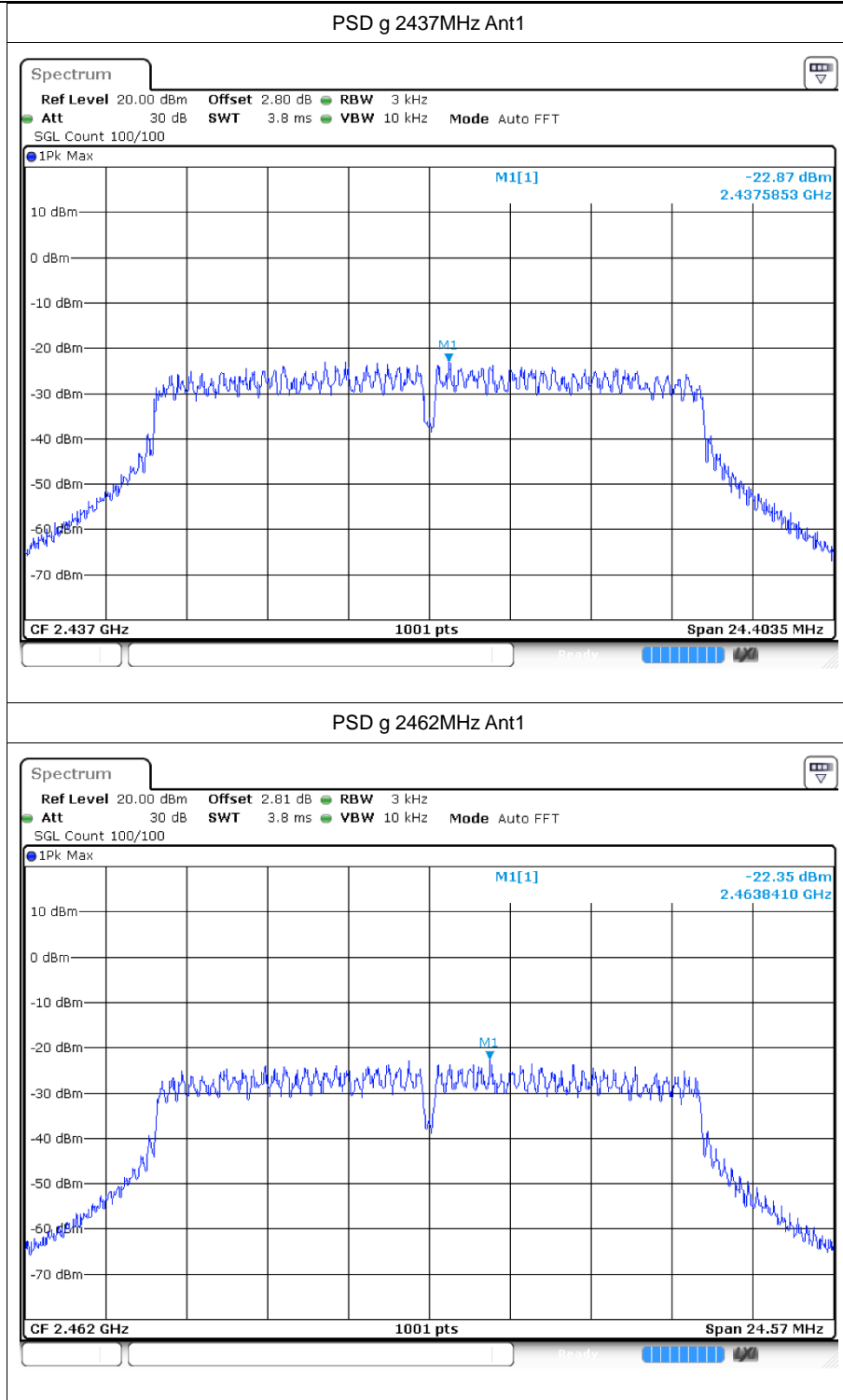
| Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3-100kHz) | Limit (dBm/3kHz) | Verdict |
|------|-----------------|---------|---------------------------------|---------------------|---------|
| b | 2412 | Ant1 | -17.33 | ≤8 | Pass |
| b | 2437 | Ant1 | -17.97 | ≤8 | Pass |
| b | 2462 | Ant1 | -18.03 | ≤8 | Pass |
| g | 2412 | Ant1 | -21.81 | ≤8 | Pass |
| g | 2437 | Ant1 | -22.87 | ≤8 | Pass |
| g | 2462 | Ant1 | -22.35 | ≤8 | Pass |
| n20 | 2412 | Ant1 | -26.23 | ≤8 | Pass |
| n20 | 2437 | Ant1 | -25.33 | ≤8 | Pass |
| n20 | 2462 | Ant1 | -25.66 | ≤8 | Pass |
| n40 | 2422 | Ant1 | -29.76 | ≤8 | Pass |
| n40 | 2437 | Ant1 | -29.6 | ≤8 | Pass |
| n40 | 2452 | Ant1 | -29.44 | ≤8 | Pass |
| b | 2412 | Ant2 | -21.63 | ≤8 | Pass |
| b | 2437 | Ant2 | -21.33 | ≤8 | Pass |
| b | 2462 | Ant2 | -21.32 | ≤8 | Pass |
| g | 2412 | Ant2 | -24.21 | ≤8 | Pass |
| g | 2437 | Ant2 | -23.44 | ≤8 | Pass |
| g | 2462 | Ant2 | -24.76 | ≤8 | Pass |
| n20 | 2412 | Ant2 | -28.52 | ≤8 | Pass |
| n20 | 2437 | Ant2 | -29.12 | ≤8 | Pass |
| n20 | 2462 | Ant2 | -29.63 | ≤8 | Pass |
| n40 | 2422 | Ant2 | -31.31 | ≤8 | Pass |
| n40 | 2437 | Ant2 | -32 | ≤8 | Pass |
| n40 | 2452 | Ant2 | -32.76 | ≤8 | Pass |
| n20 | 2412 | Sum | -24.22 | ≤7.99 | Pass |
| n20 | 2437 | Sum | -23.81 | ≤7.99 | Pass |
| n20 | 2462 | Sum | -24.20 | ≤7.99 | Pass |
| n40 | 2422 | Sum | -27.46 | ≤7.99 | Pass |
| n40 | 2437 | Sum | -27.63 | ≤7.99 | Pass |
| n40 | 2452 | Sum | -27.78 | ≤7.99 | Pass |

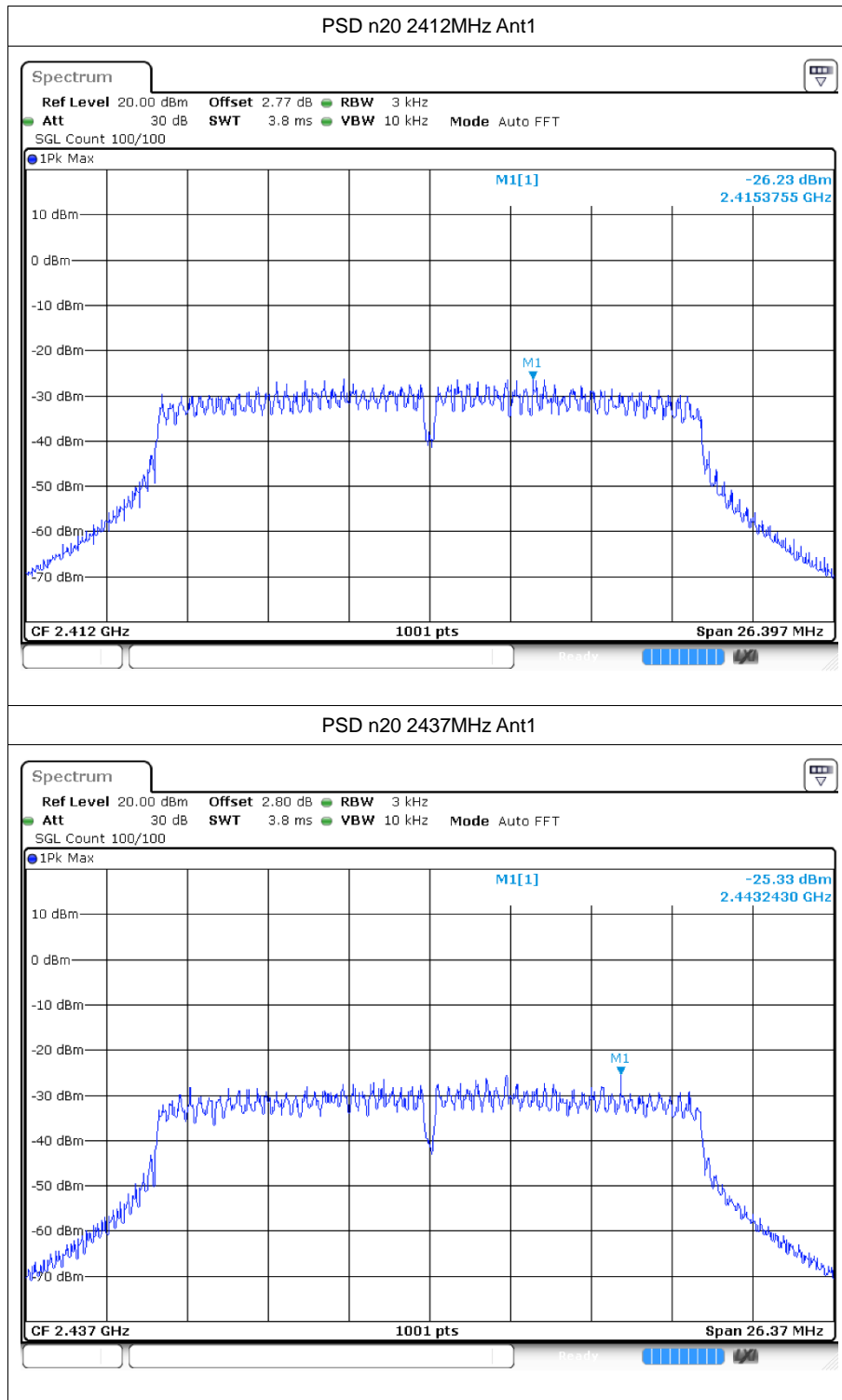


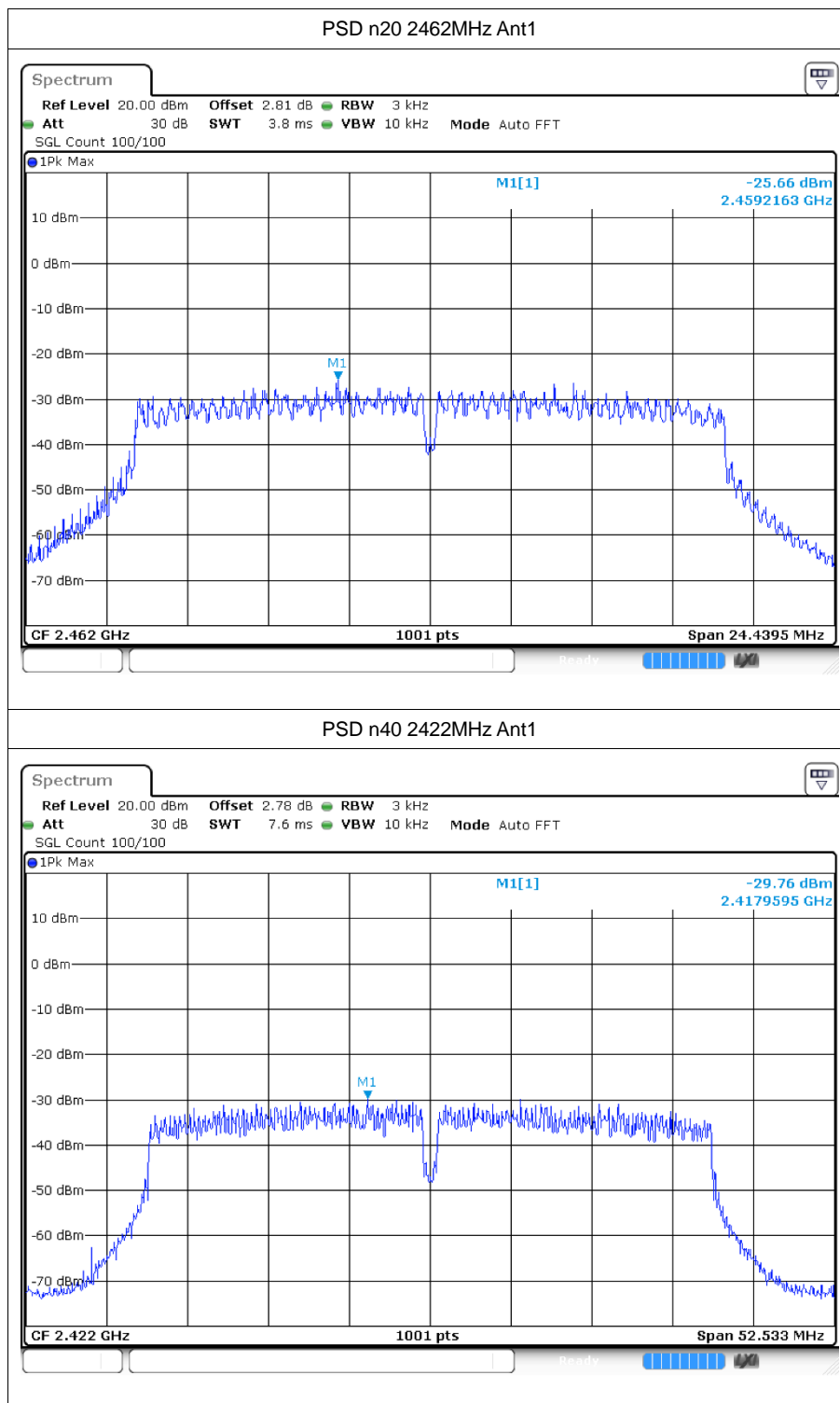
4.2 Test Graphs

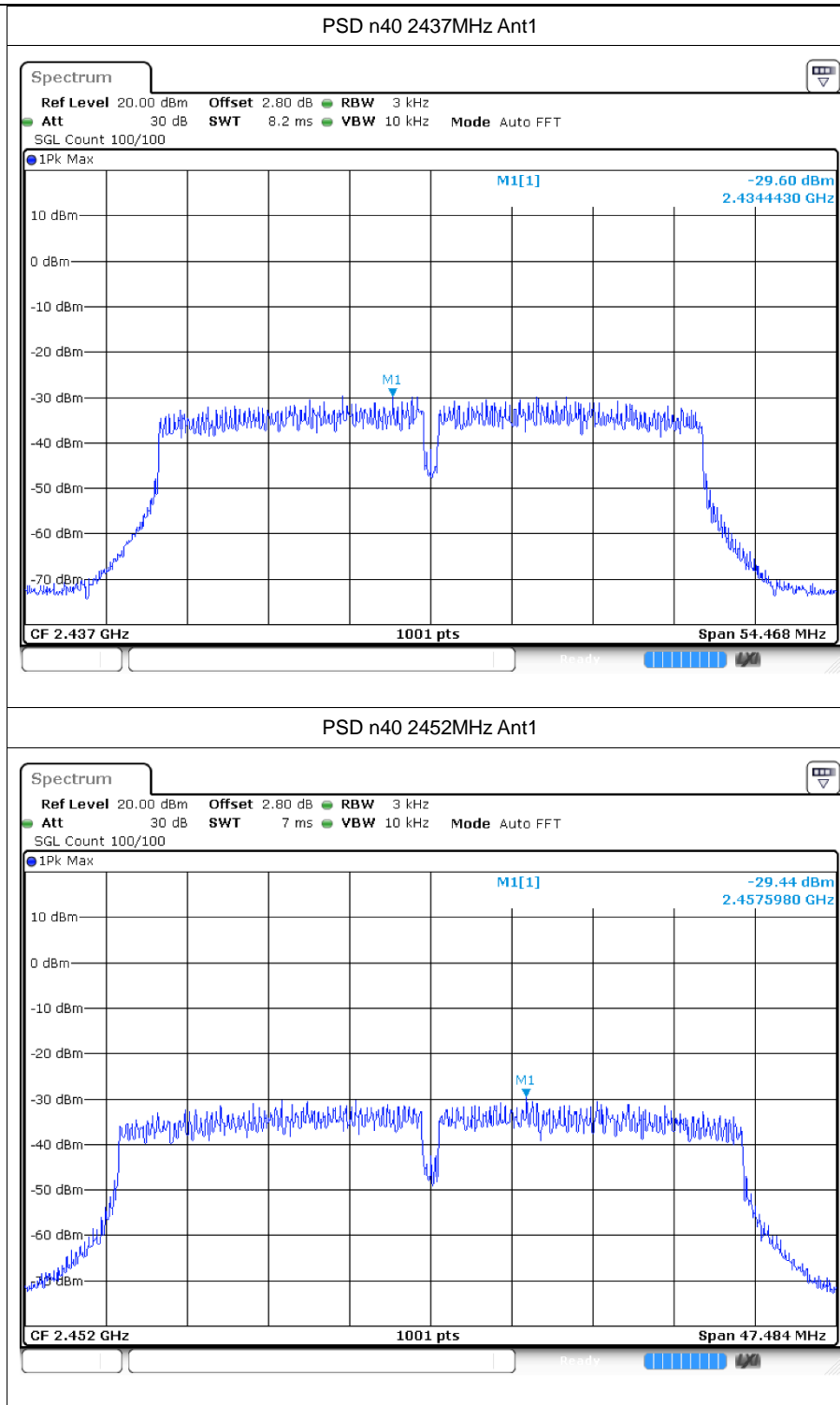


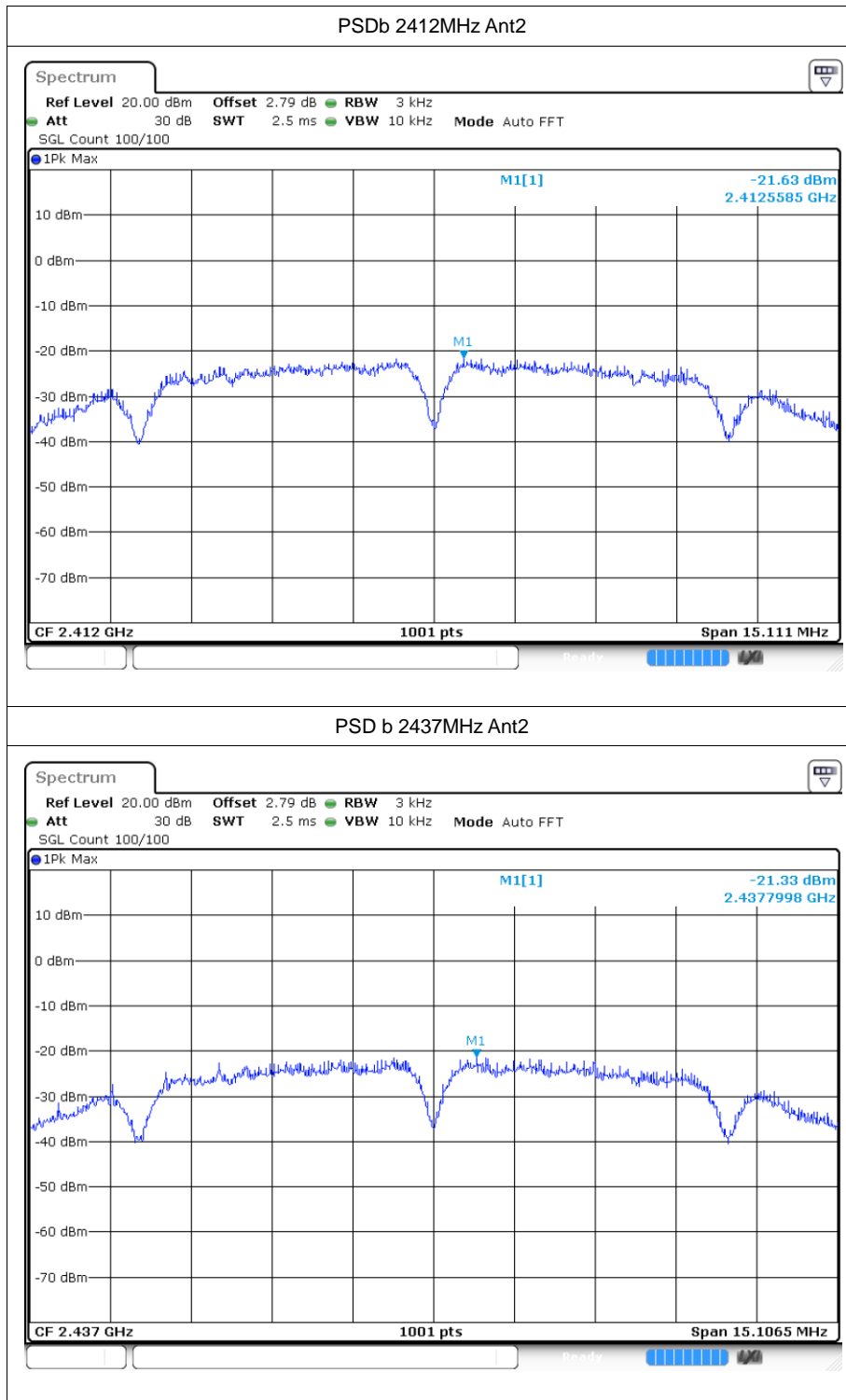


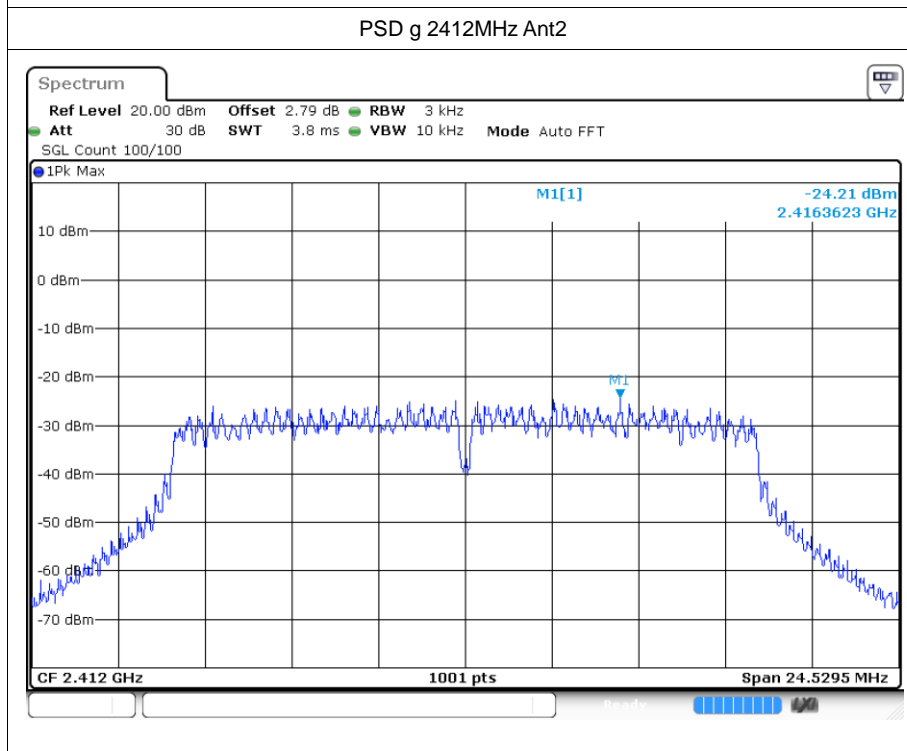
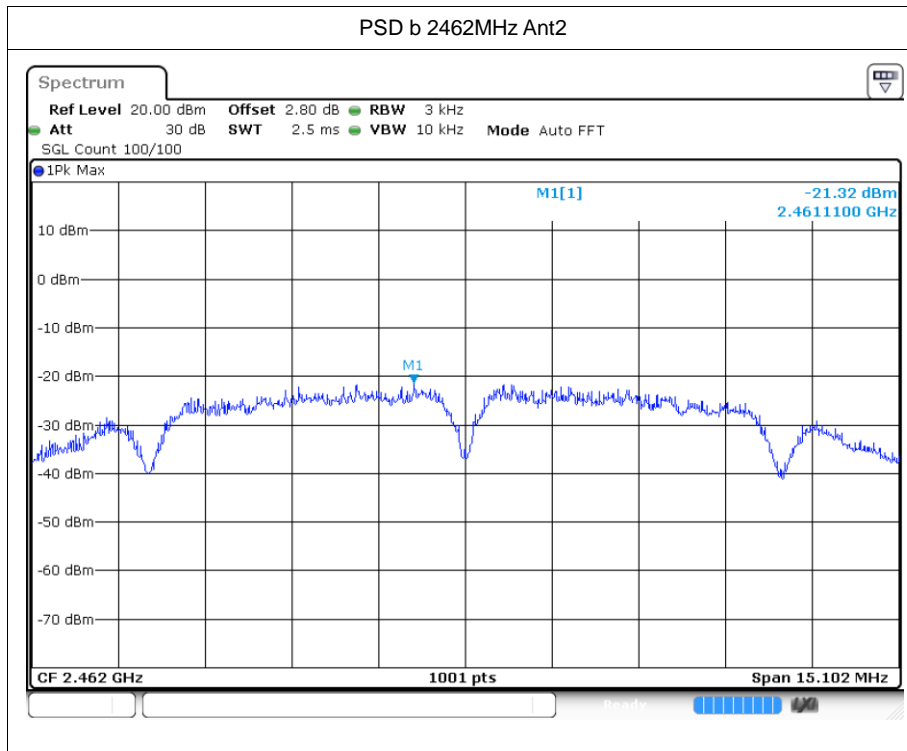


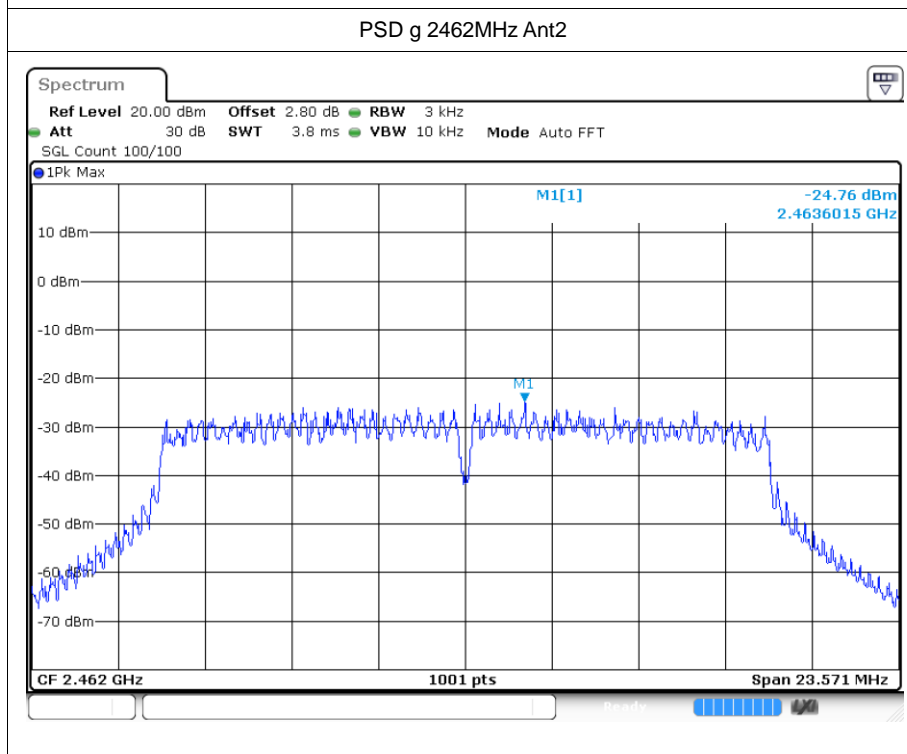
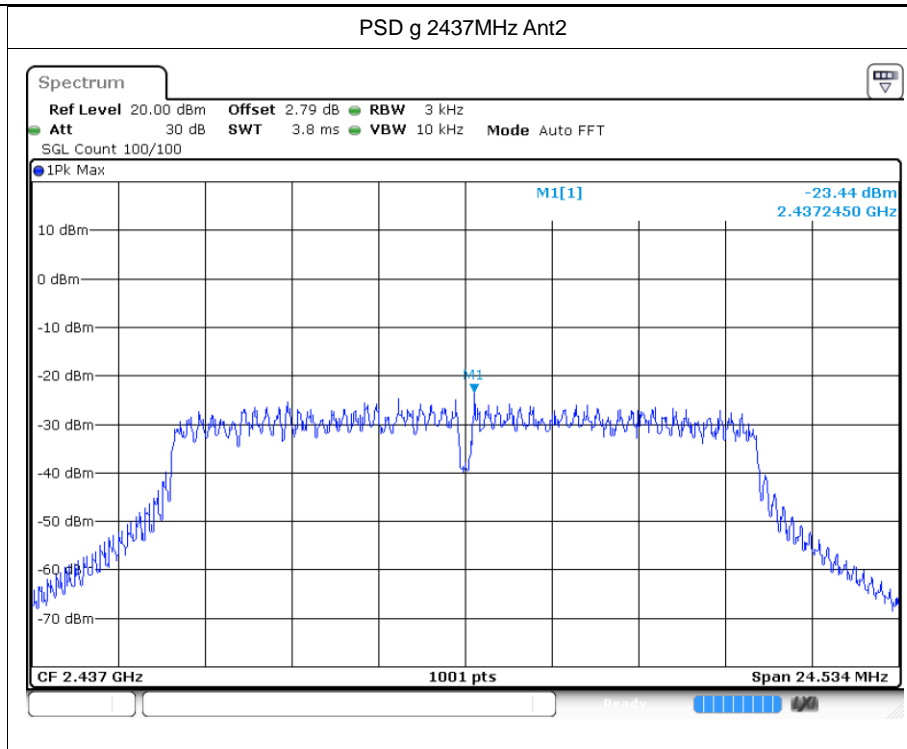


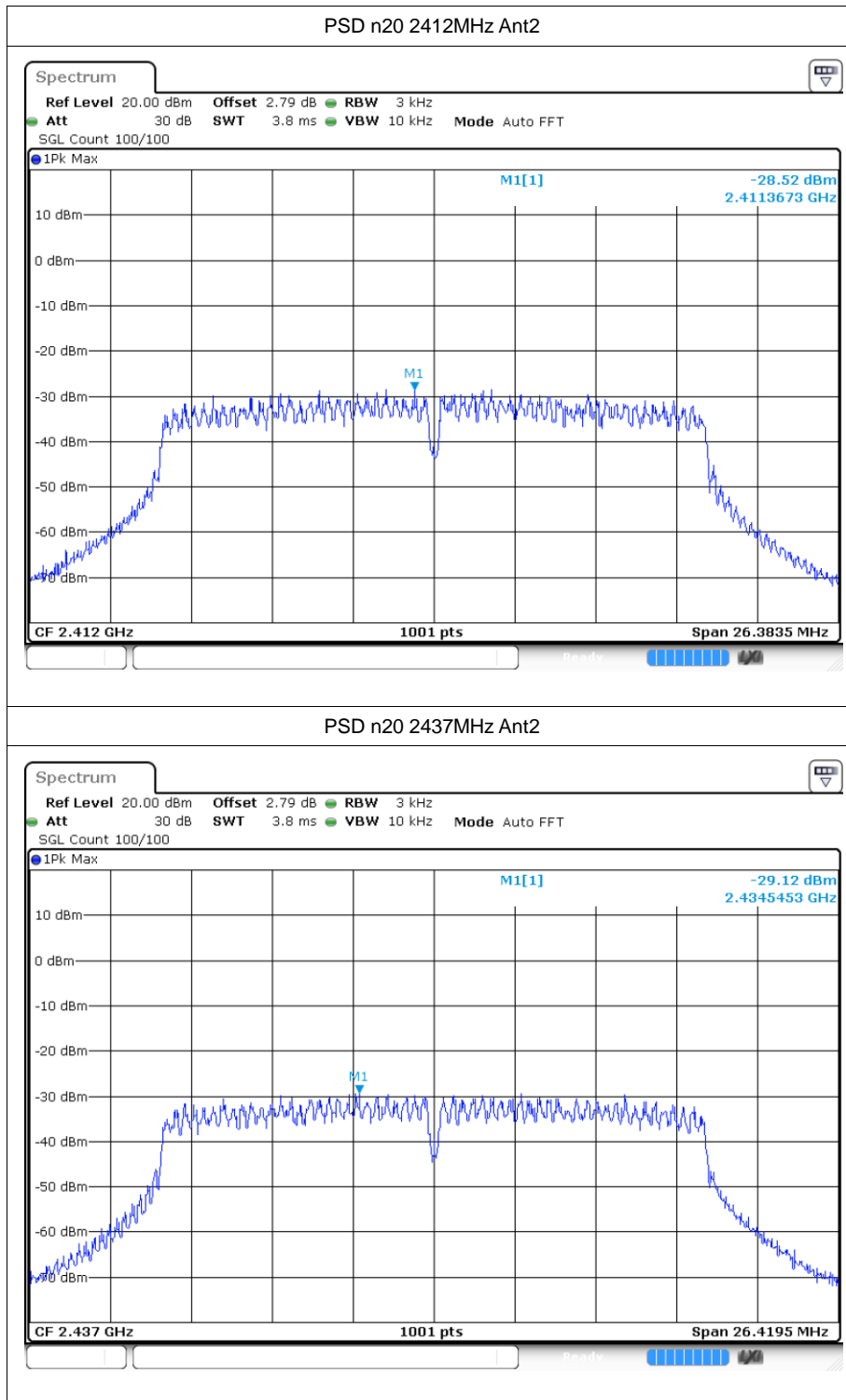


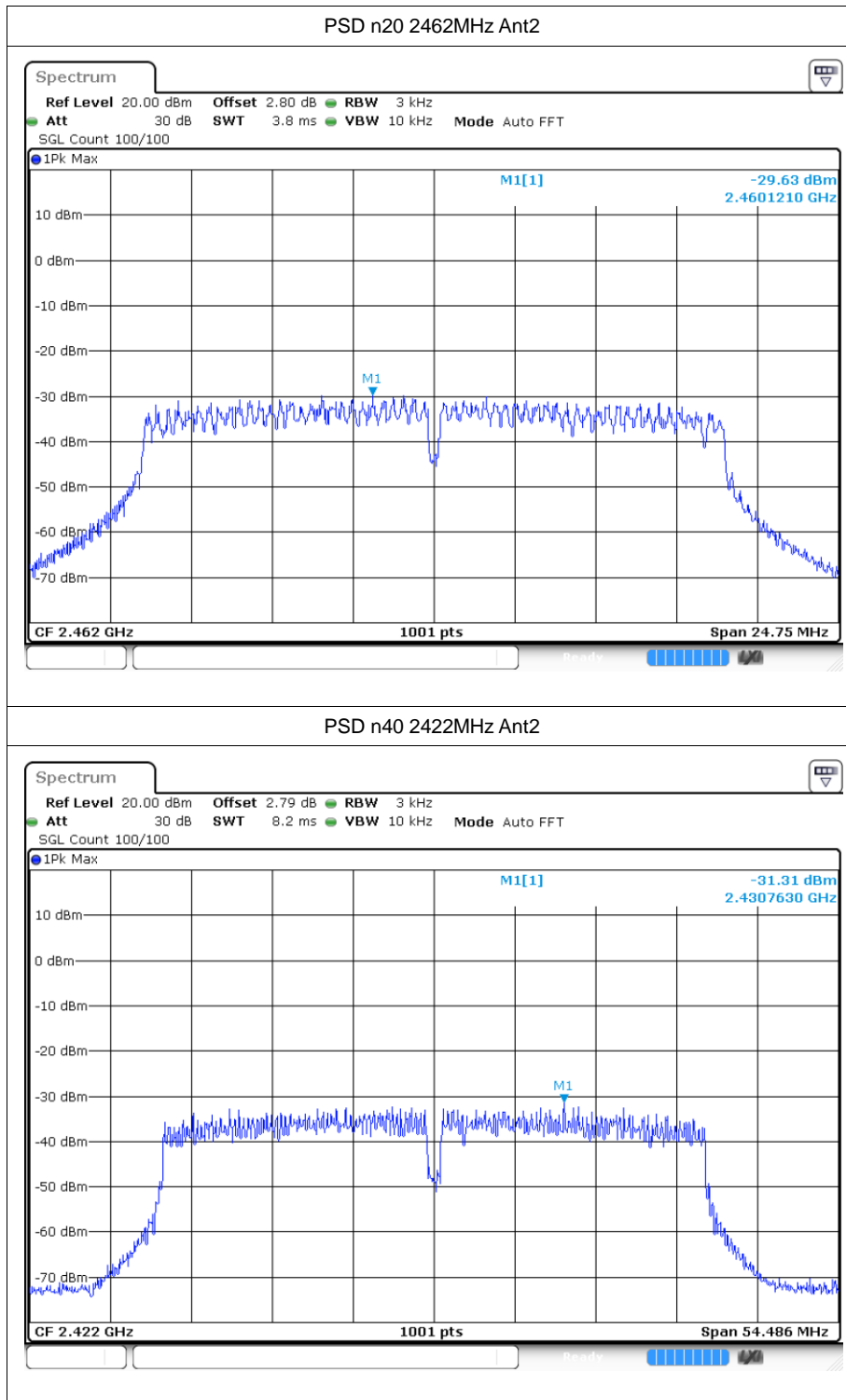


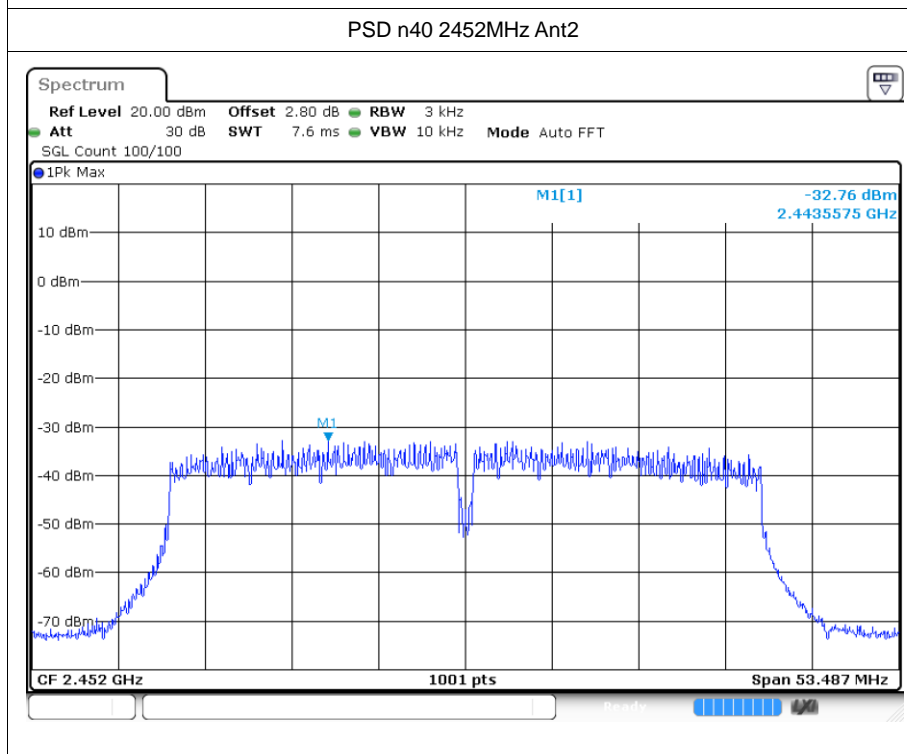
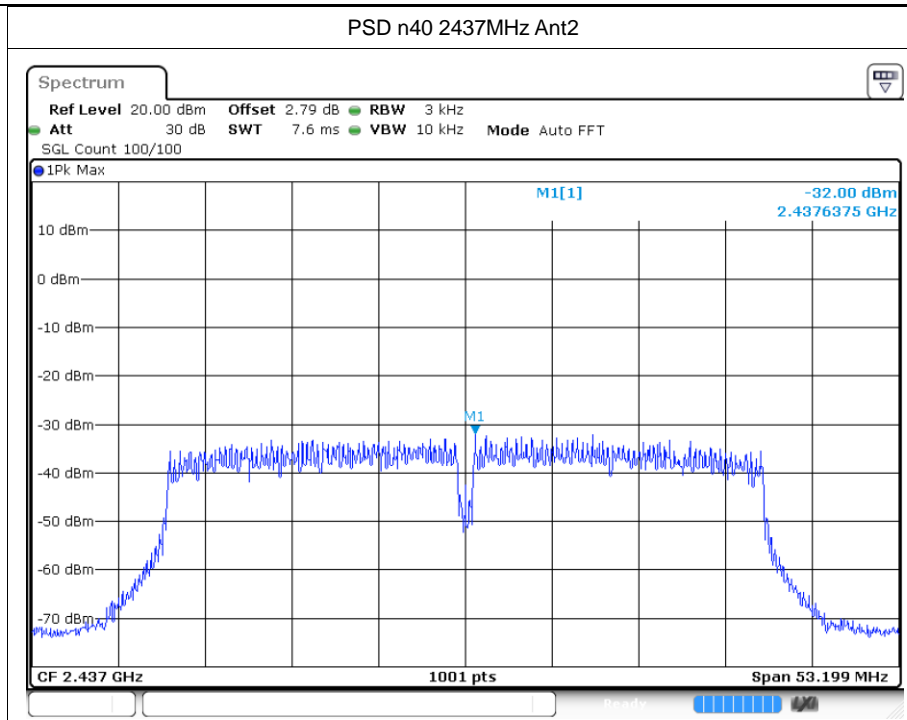














5 Band Edge

5.1 Test Result

| Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|------|-----------------|---------|-----------------|-------------|---------|
| b | 2412 | Ant1 | -51.14 | -20 | -51.14 |
| b | 2462 | Ant1 | -48.72 | -20 | Pass |
| g | 2412 | Ant1 | -46.04 | -20 | Pass |
| g | 2462 | Ant1 | -45.64 | -20 | Pass |
| n20 | 2412 | Ant1 | -40.4 | -20 | Pass |
| n20 | 2462 | Ant1 | -41.56 | -20 | Pass |
| n40 | 2422 | Ant1 | -40.33 | -20 | Pass |
| n40 | 2452 | Ant1 | -39.23 | -20 | Pass |
| b | 2412 | Ant2 | -47.63 | -20 | -47.63 |
| b | 2462 | Ant2 | -48.02 | -20 | Pass |
| g | 2412 | Ant2 | -43.7 | -20 | Pass |
| g | 2462 | Ant2 | -42.53 | -20 | Pass |
| n20 | 2412 | Ant2 | -40.94 | -20 | Pass |
| n20 | 2462 | Ant2 | -40.4 | -20 | Pass |
| n40 | 2422 | Ant2 | -37.61 | -20 | Pass |
| n40 | 2452 | Ant2 | -37.42 | -20 | Pass |

5.2 Test Graphs

