

## Appendix: 2.4G WIFI

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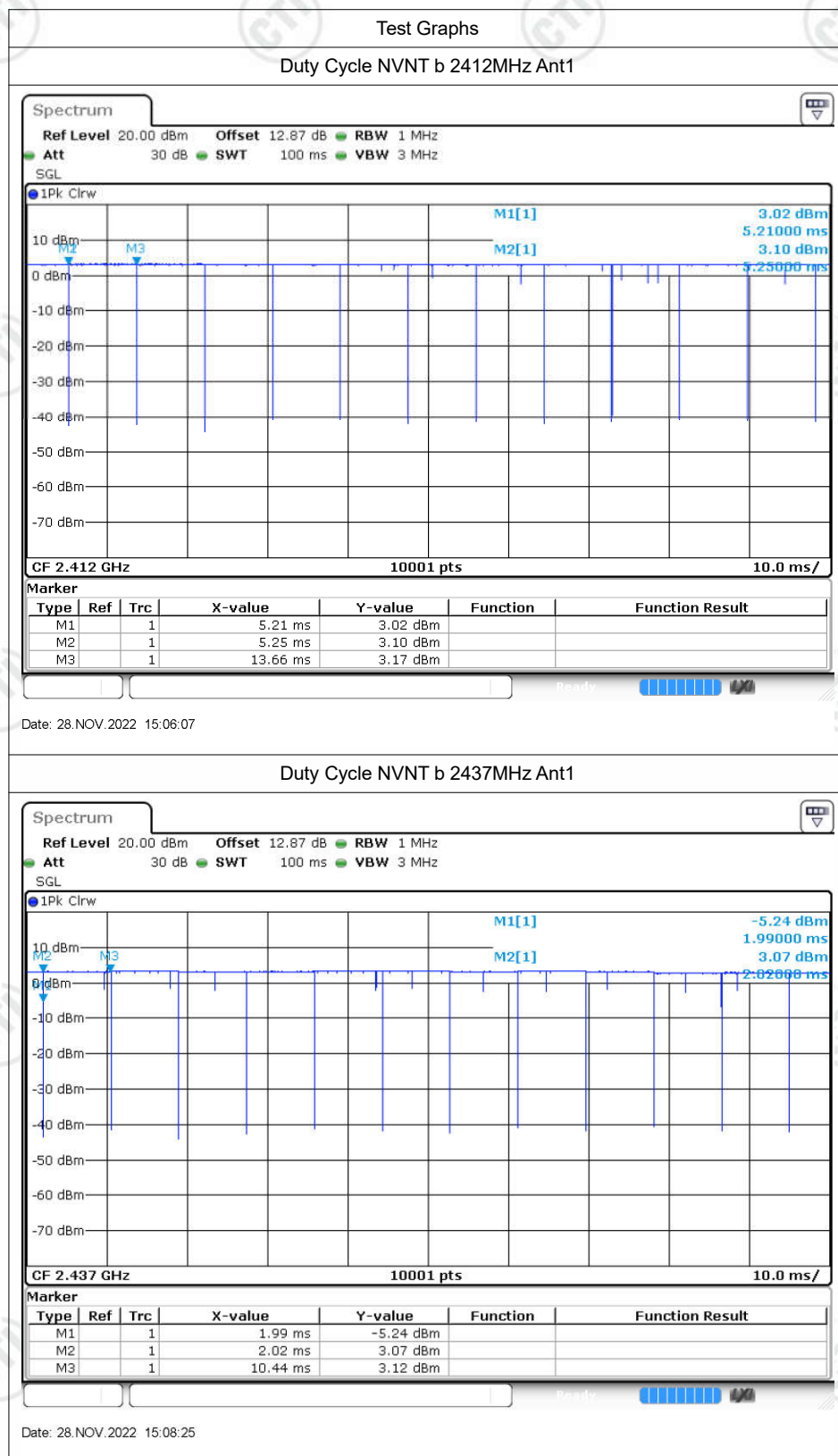
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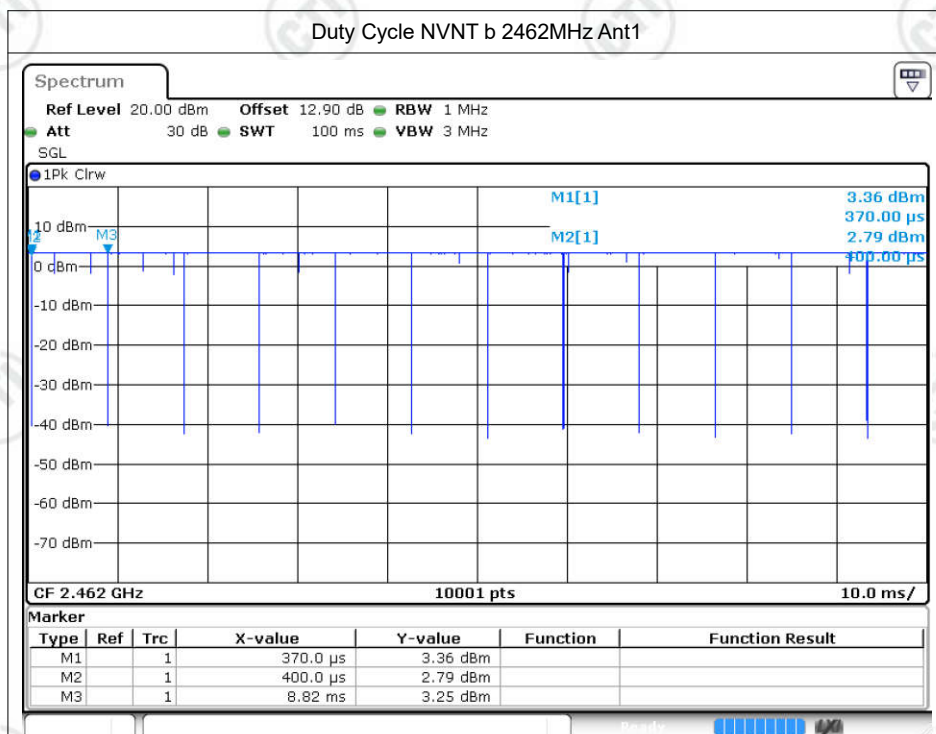
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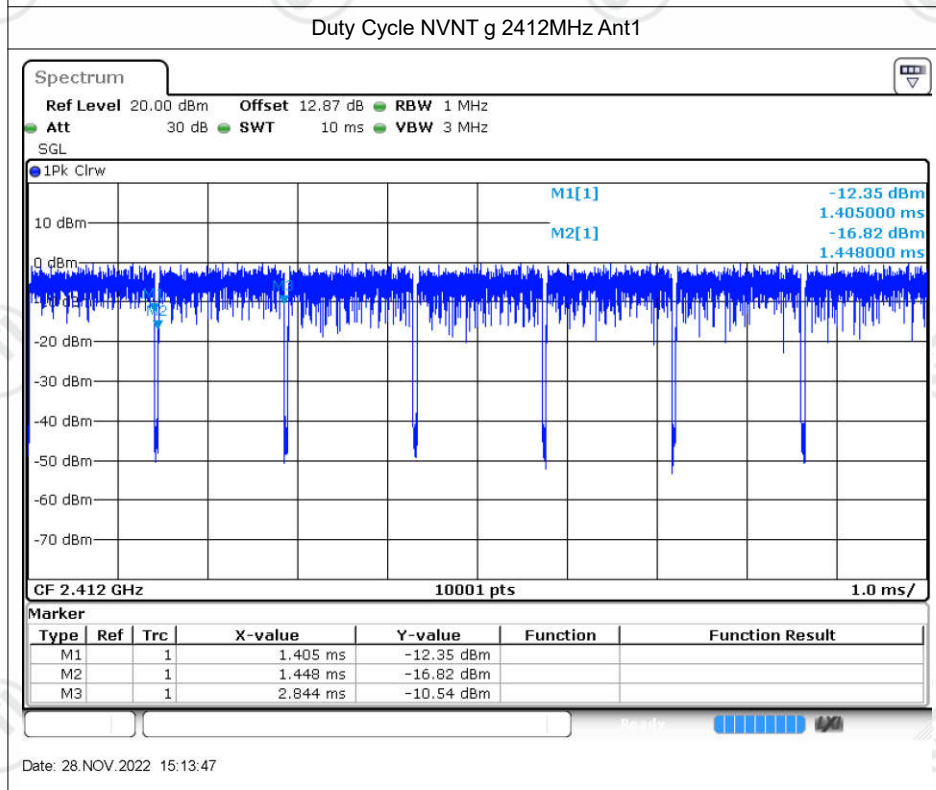
Duty Cycle

| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | b    | 2412            | Ant1    | 99.53          | 0                      | 0.12      |
| NVNT      | b    | 2437            | Ant1    | 99.64          | 0                      | 0.12      |
| NVNT      | b    | 2462            | Ant1    | 99.64          | 0                      | 0.12      |
| NVNT      | g    | 2412            | Ant1    | 97.01          | 0.13                   | 0.72      |
| NVNT      | g    | 2437            | Ant1    | 97.08          | 0.13                   | 0.72      |
| NVNT      | g    | 2462            | Ant1    | 97.08          | 0.13                   | 0.72      |
| NVNT      | n20  | 2412            | Ant1    | 97.04          | 0.13                   | 0.76      |
| NVNT      | n20  | 2437            | Ant1    | 97.04          | 0.13                   | 0.76      |
| NVNT      | n20  | 2462            | Ant1    | 96.67          | 0.15                   | 0.77      |

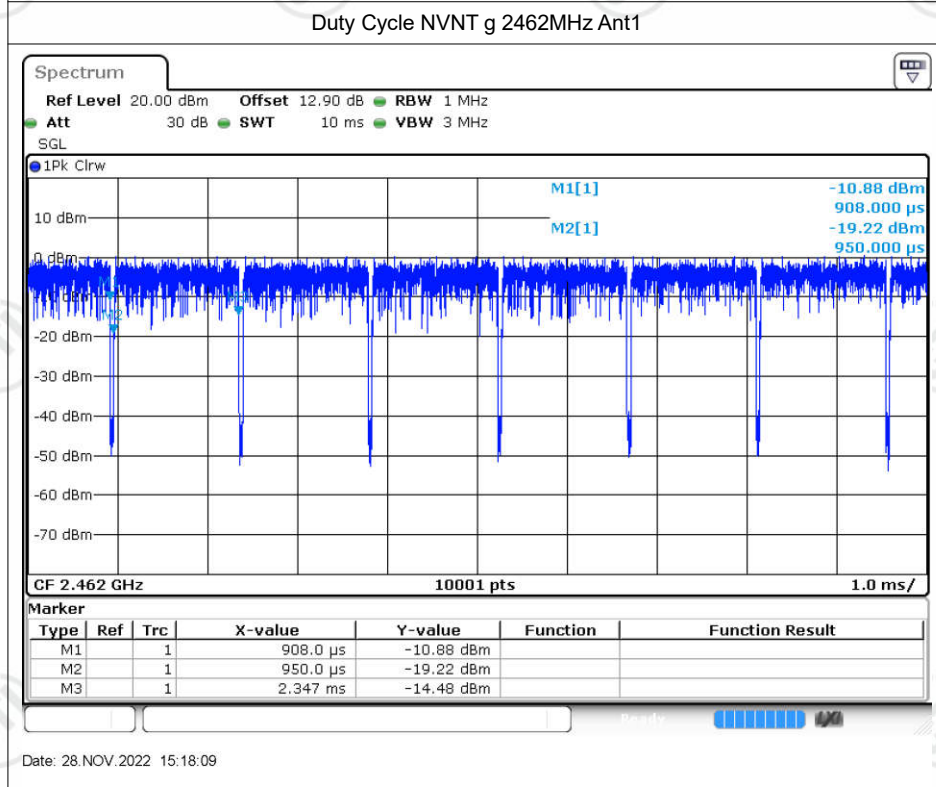
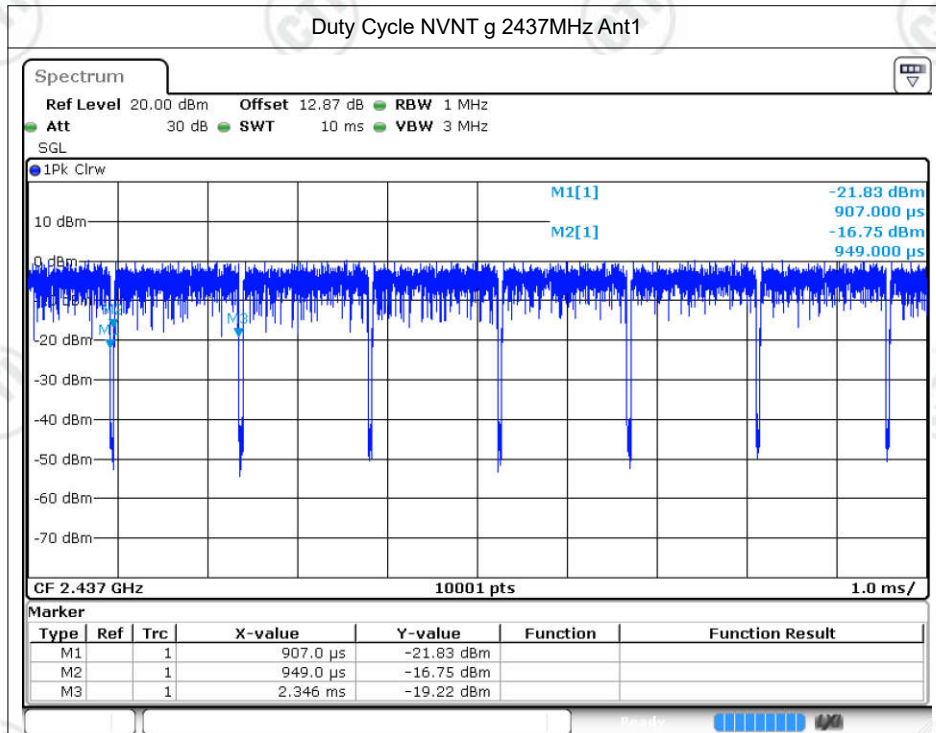




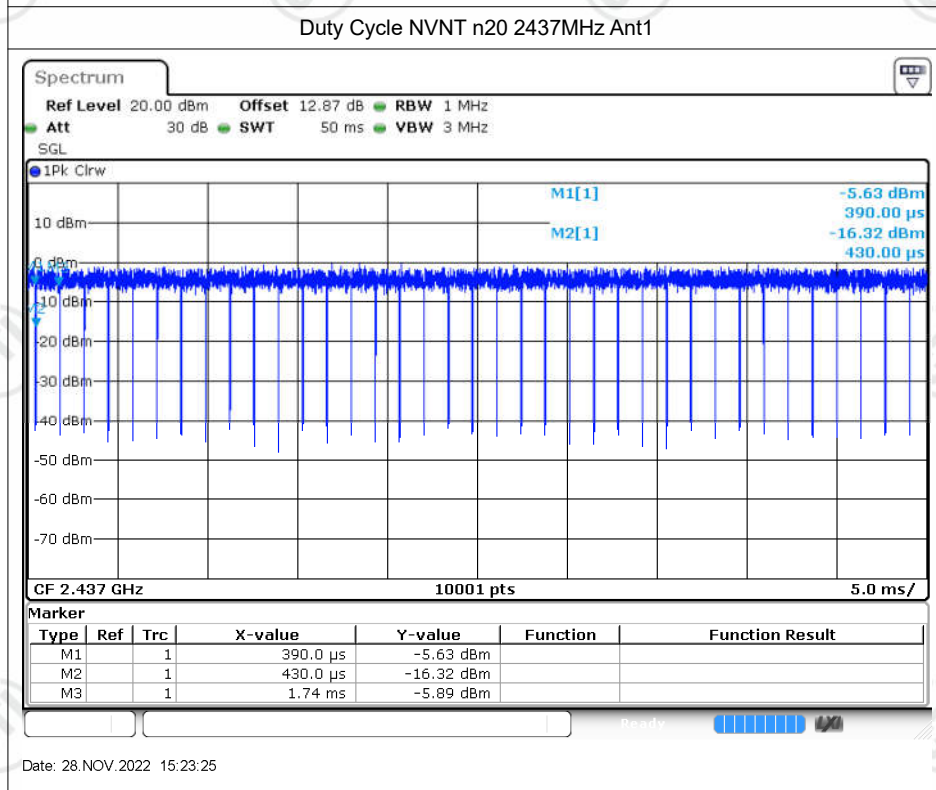
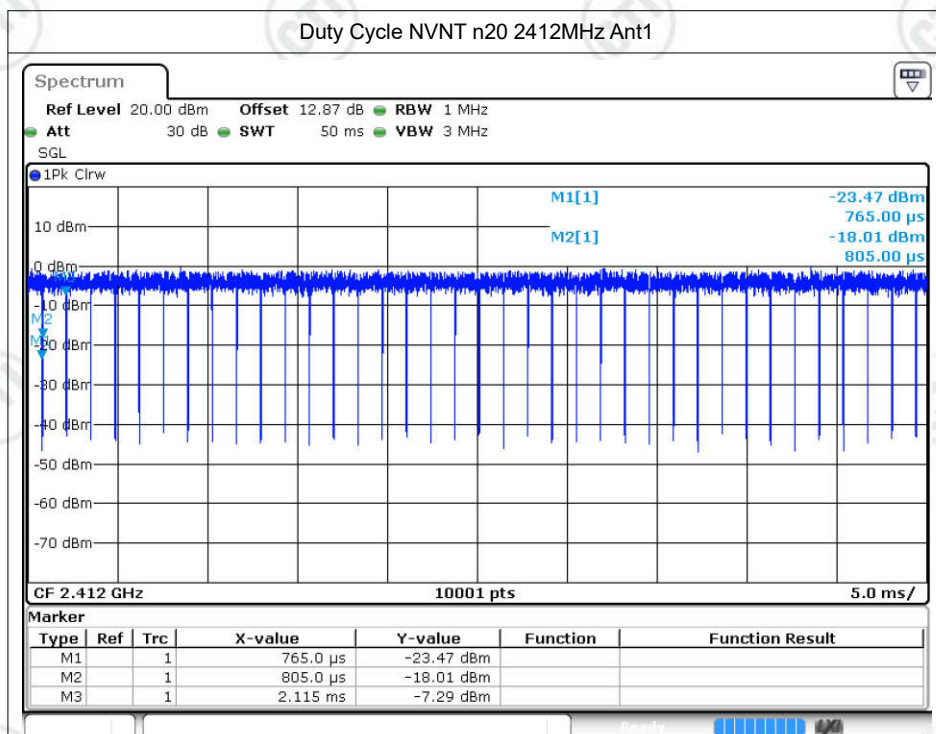
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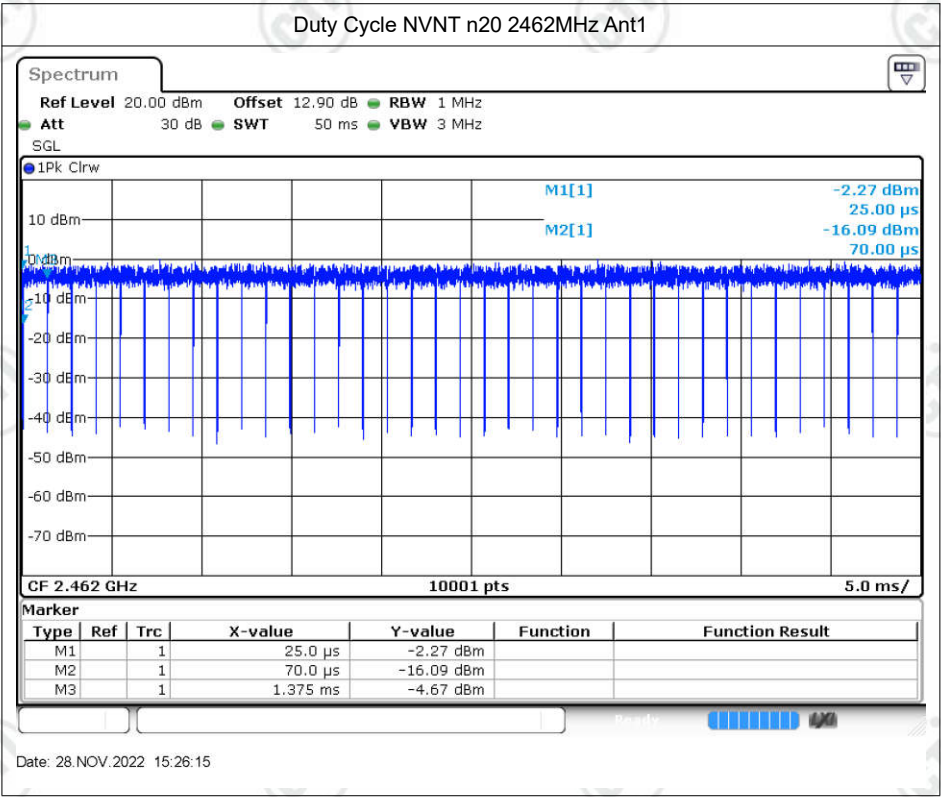


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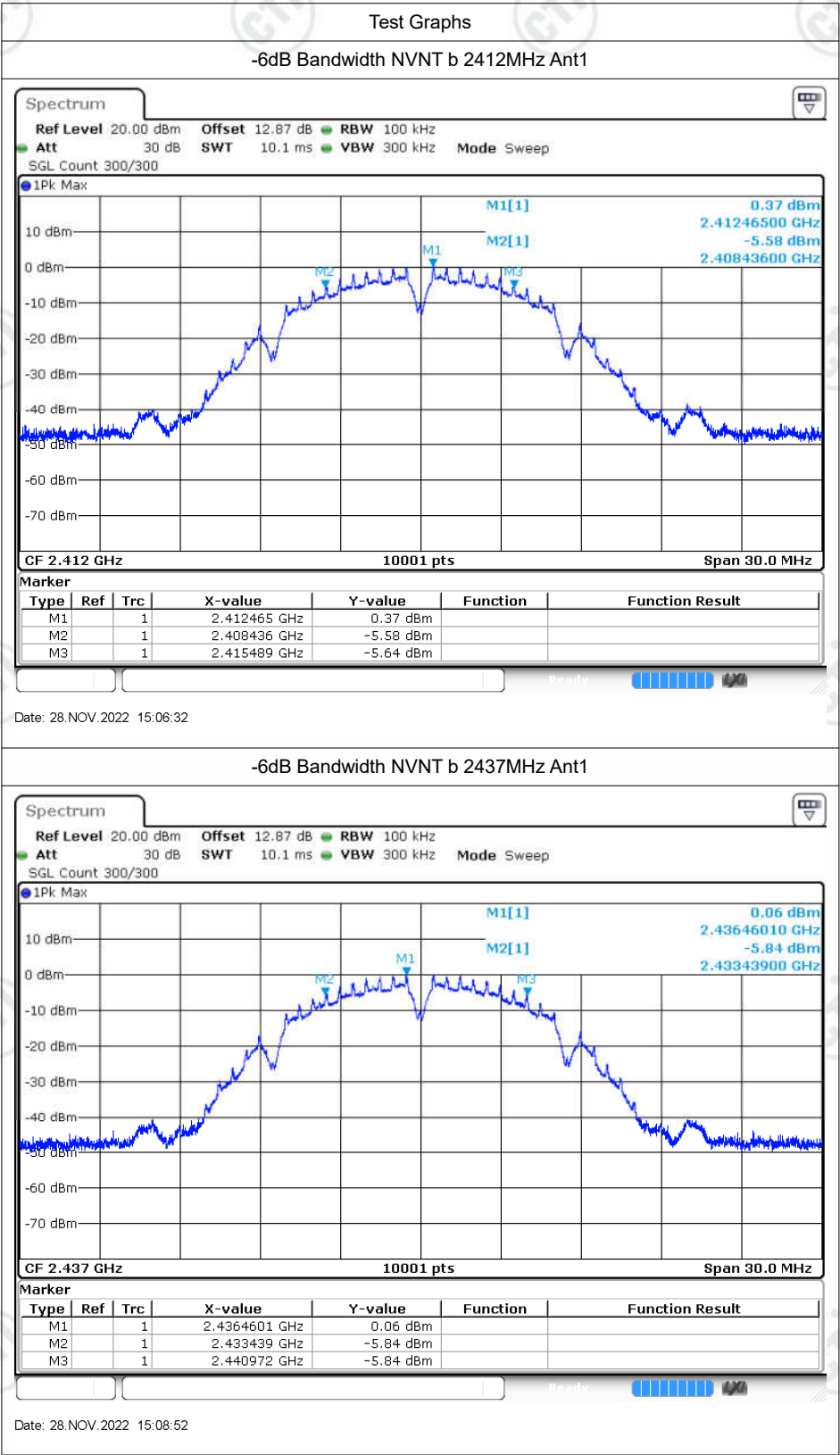


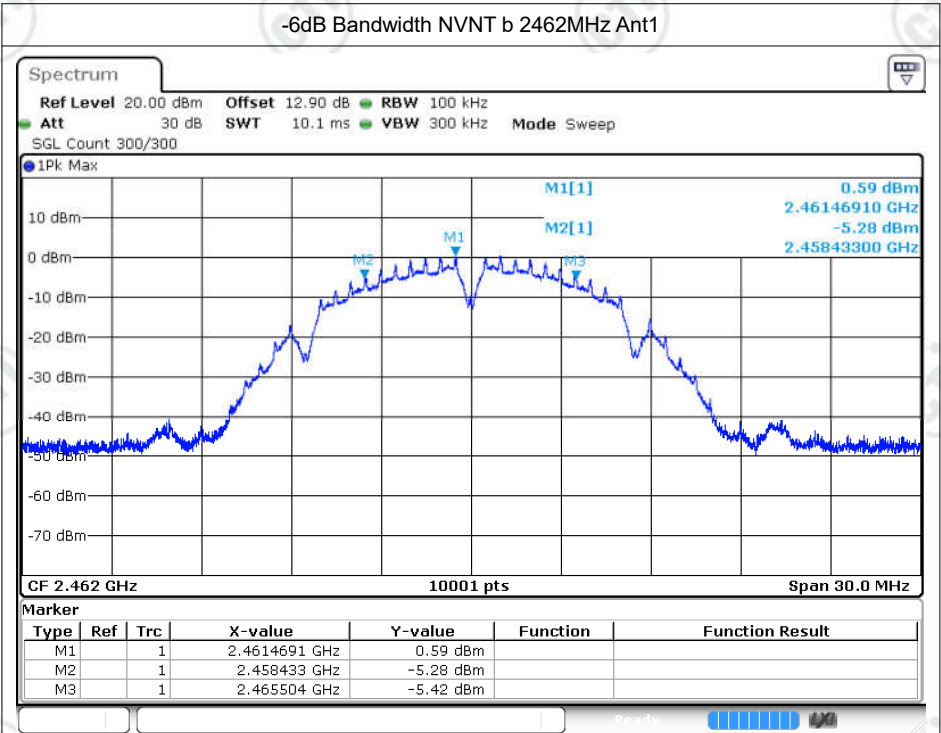
Maximum Peak Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | 11.07                 | 30          | Pass    |
| NVNT      | b    | 2437            | Ant1    | 11.18                 | 30          | Pass    |
| NVNT      | b    | 2462            | Ant1    | 11.43                 | 30          | Pass    |
| NVNT      | g    | 2412            | Ant1    | 10.10                 | 30          | Pass    |
| NVNT      | g    | 2437            | Ant1    | 10.52                 | 30          | Pass    |
| NVNT      | g    | 2462            | Ant1    | 10.56                 | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 9.39                  | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 9.14                  | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 9.02                  | 30          | Pass    |

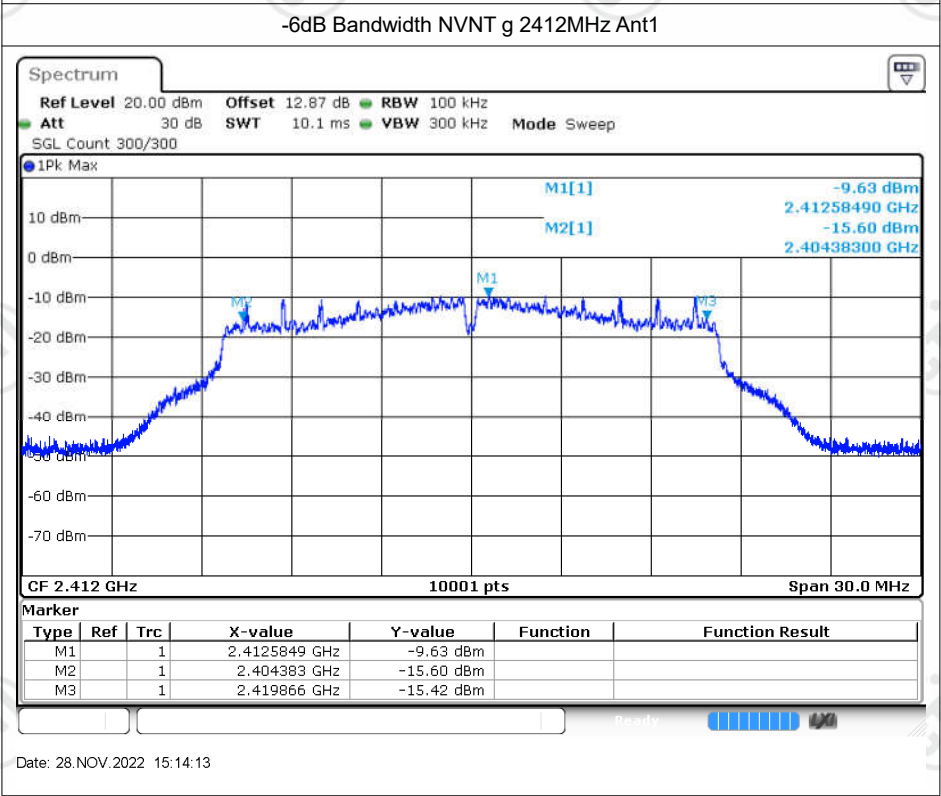
-6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 7.053                 | 0.5                         | Pass    |
| NVNT      | b    | 2437            | Ant1    | 7.533                 | 0.5                         | Pass    |
| NVNT      | b    | 2462            | Ant1    | 7.071                 | 0.5                         | Pass    |
| NVNT      | g    | 2412            | Ant1    | 15.483                | 0.5                         | Pass    |
| NVNT      | g    | 2437            | Ant1    | 15.453                | 0.5                         | Pass    |
| NVNT      | g    | 2462            | Ant1    | 15.153                | 0.5                         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 15.714                | 0.5                         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 15.138                | 0.5                         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 15.15                 | 0.5                         | Pass    |

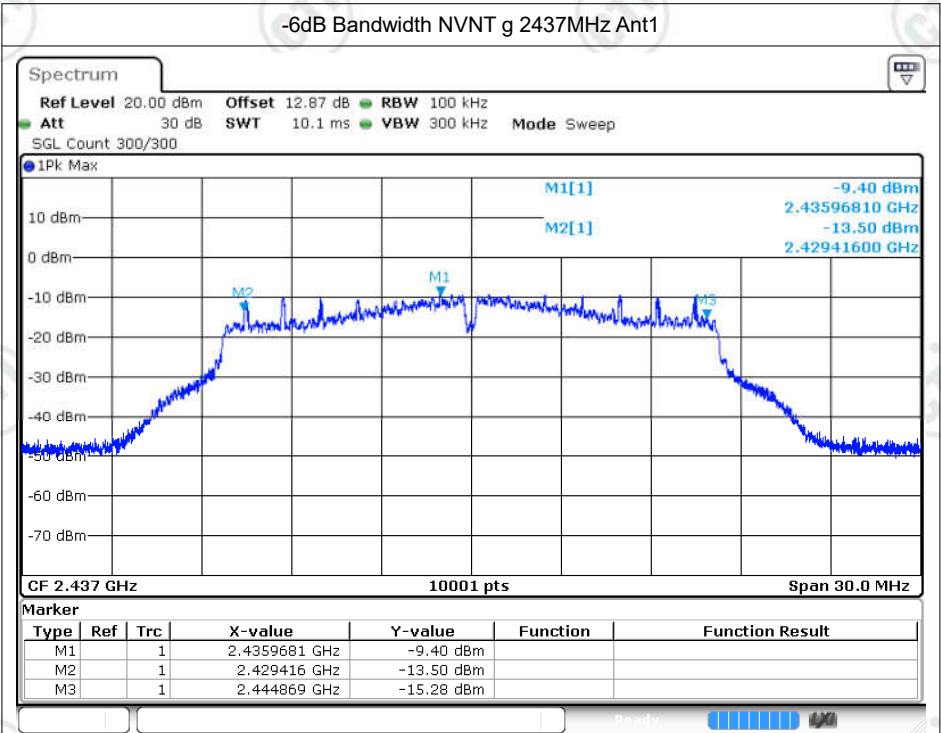




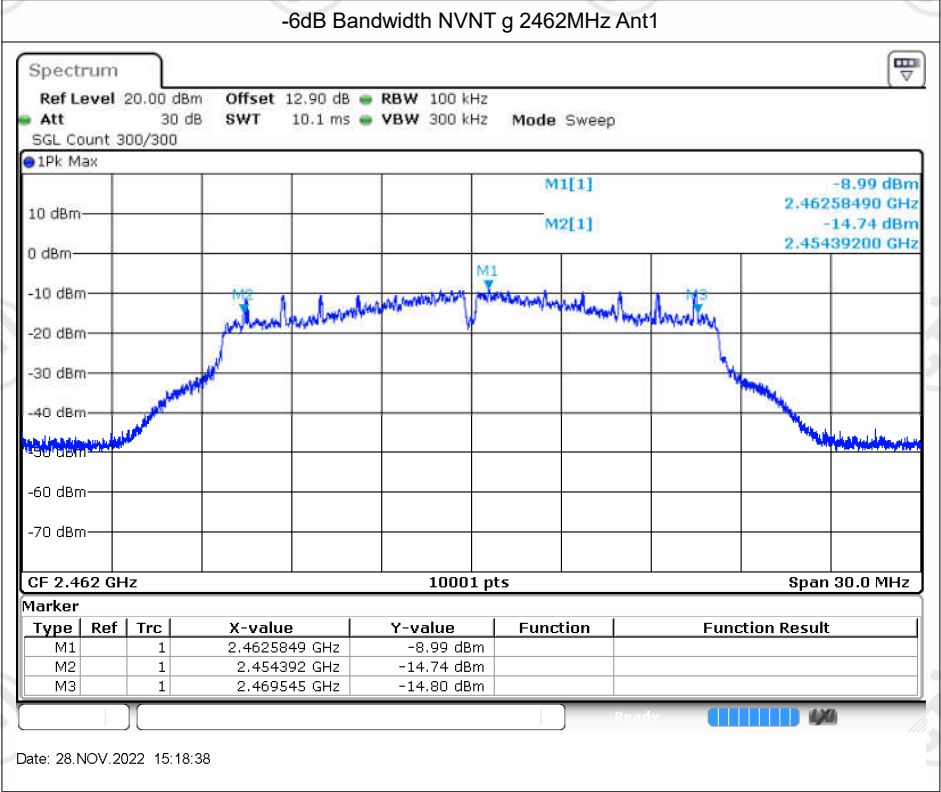
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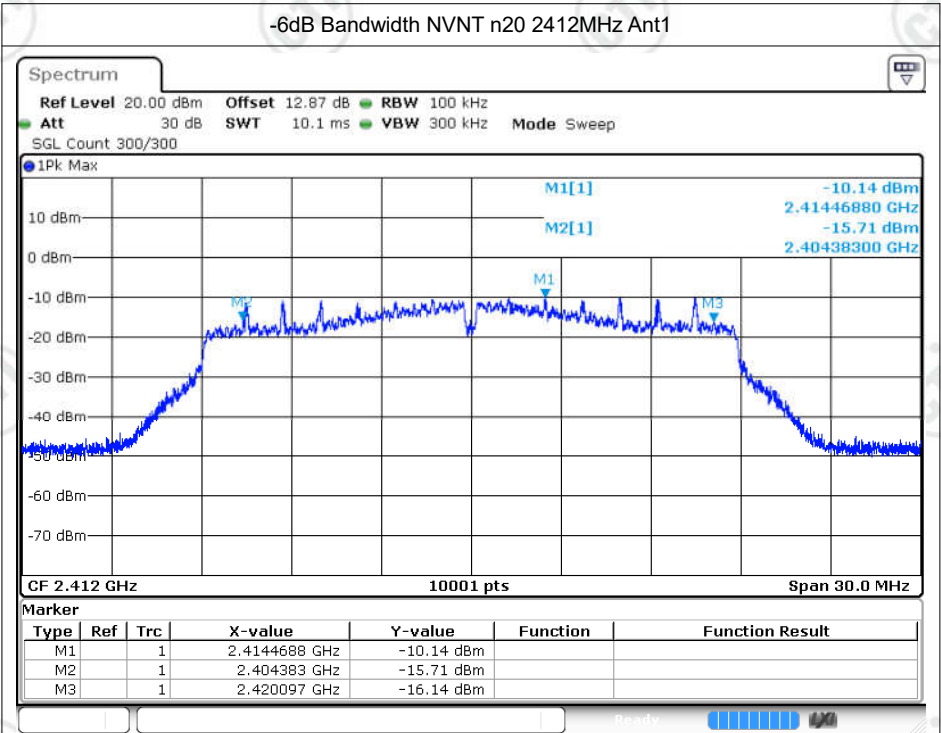
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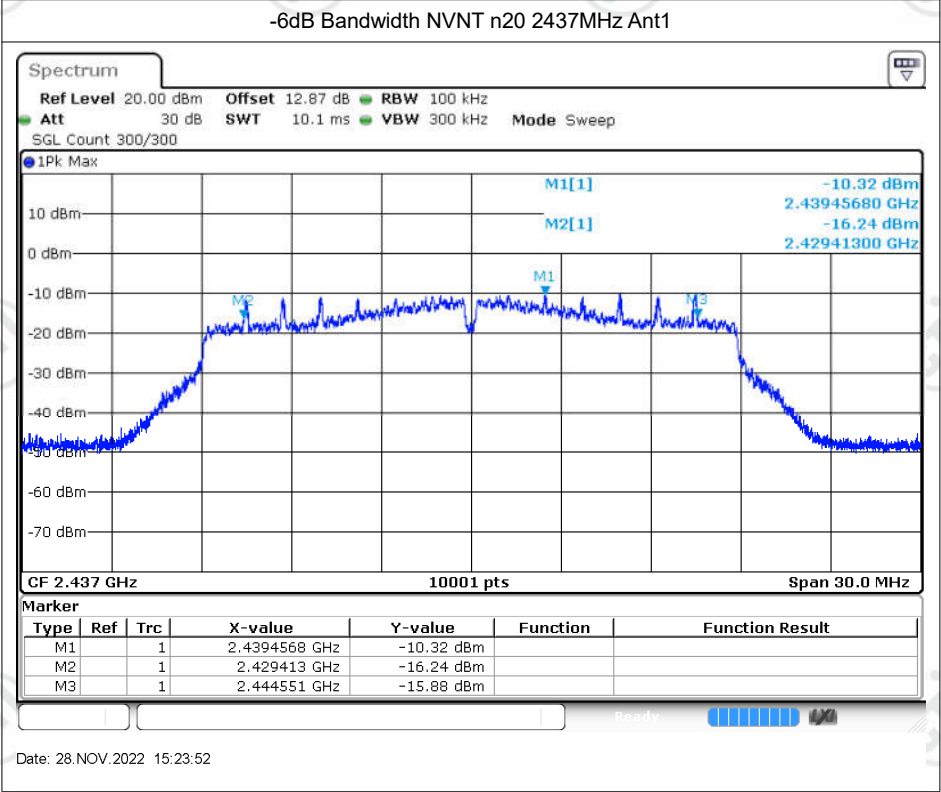
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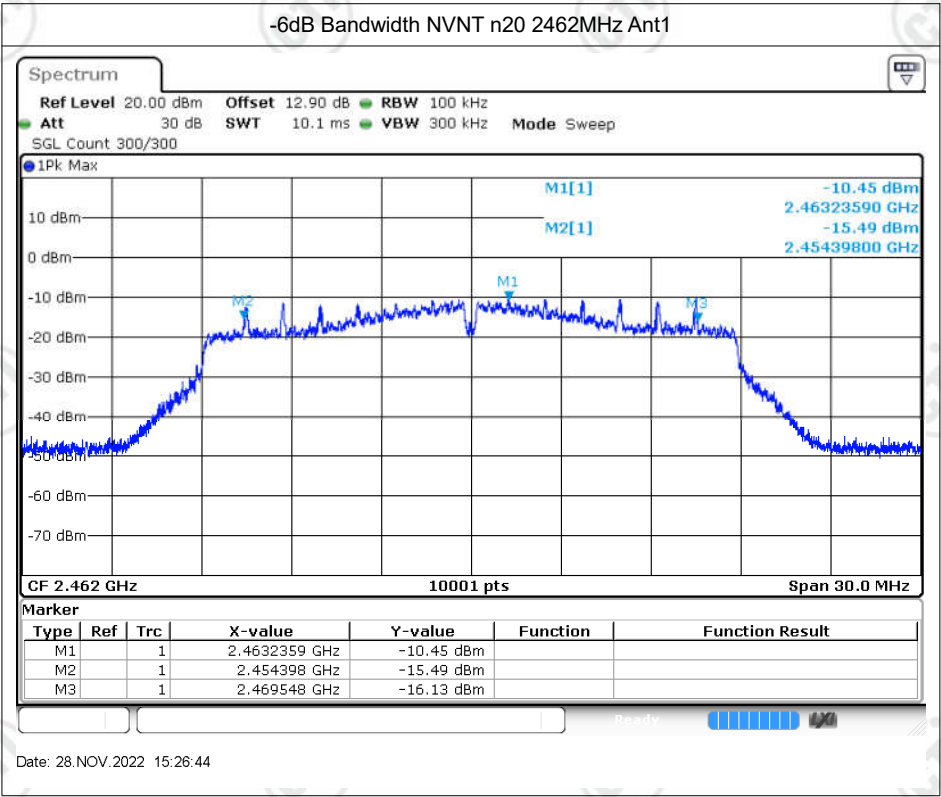


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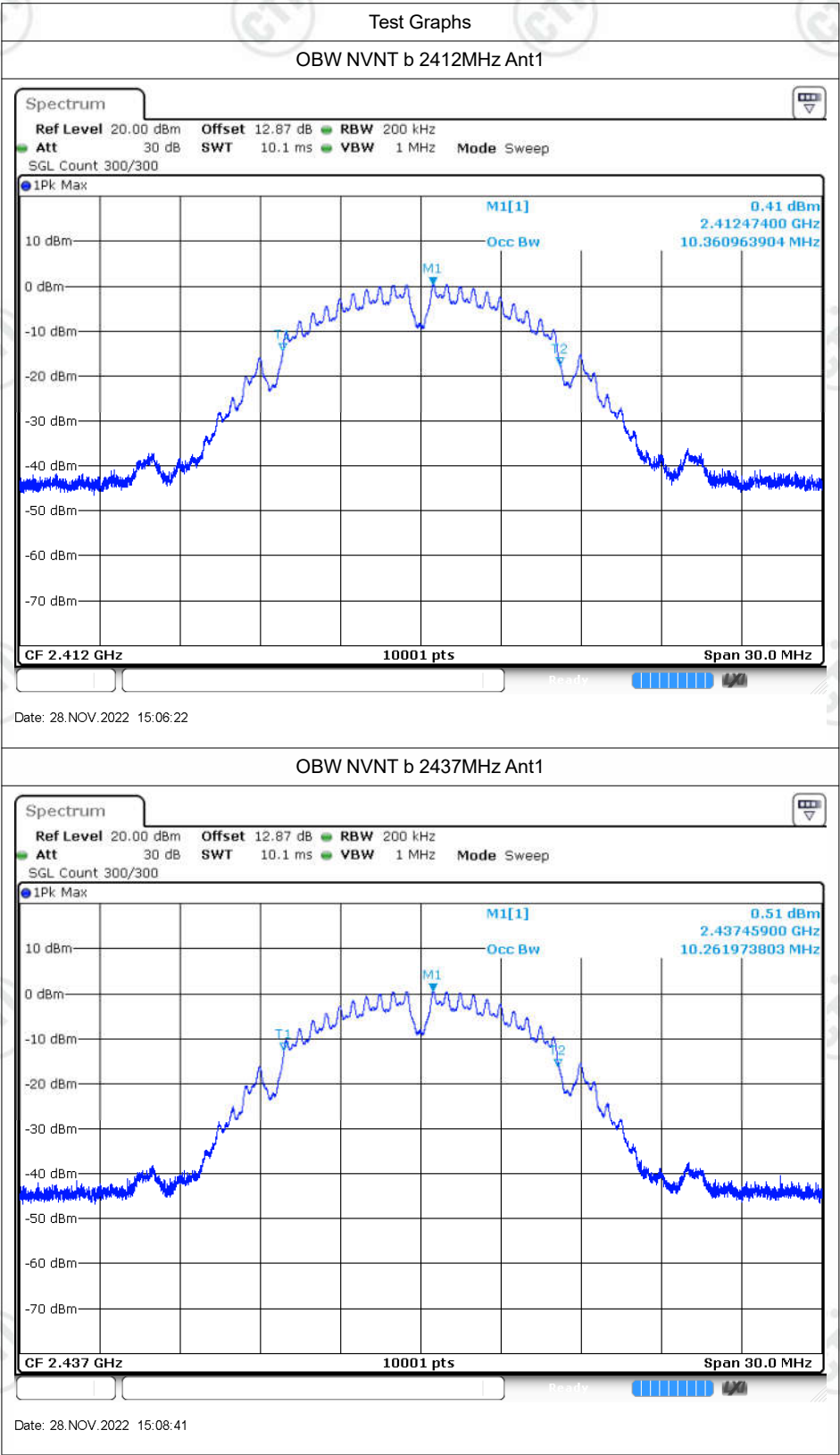
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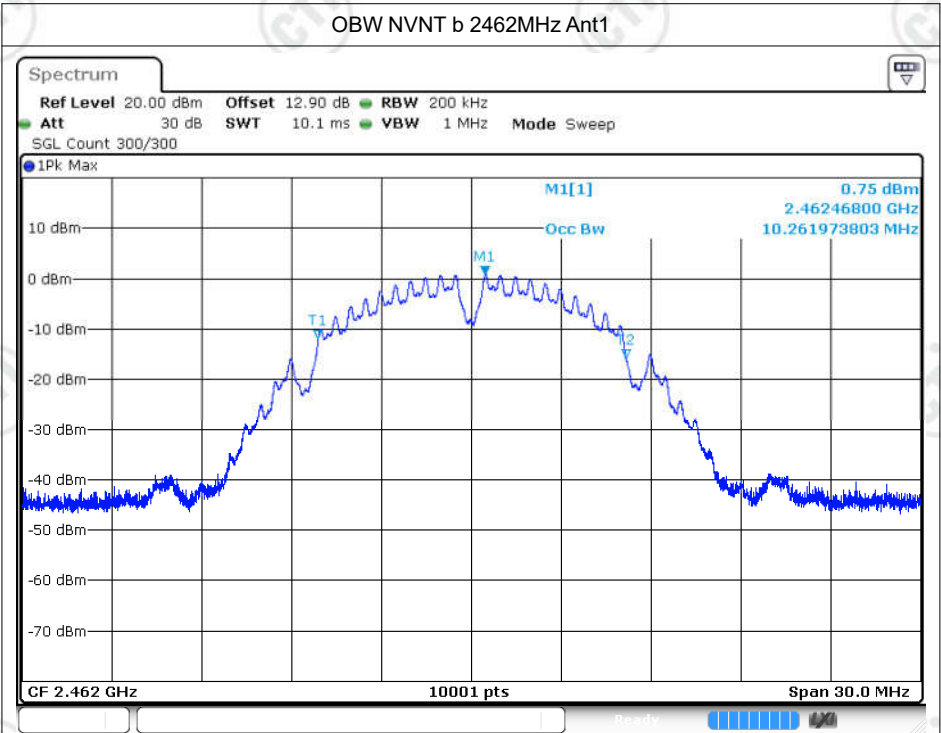




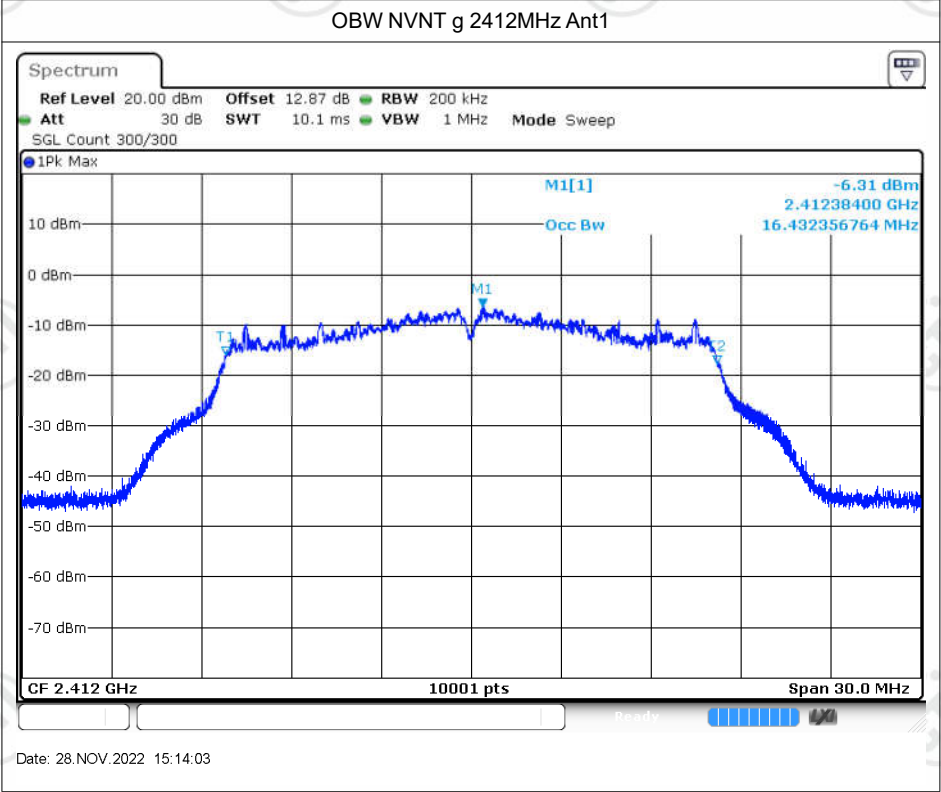
Occupied Channel Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|------|-----------------|---------|---------------|
| NVNT      | b    | 2412            | Ant1    | 10.361        |
| NVNT      | b    | 2437            | Ant1    | 10.262        |
| NVNT      | b    | 2462            | Ant1    | 10.262        |
| NVNT      | g    | 2412            | Ant1    | 16.432        |
| NVNT      | g    | 2437            | Ant1    | 16.432        |
| NVNT      | g    | 2462            | Ant1    | 16.327        |
| NVNT      | n20  | 2412            | Ant1    | 17.584        |
| NVNT      | n20  | 2437            | Ant1    | 17.578        |
| NVNT      | n20  | 2462            | Ant1    | 17.494        |

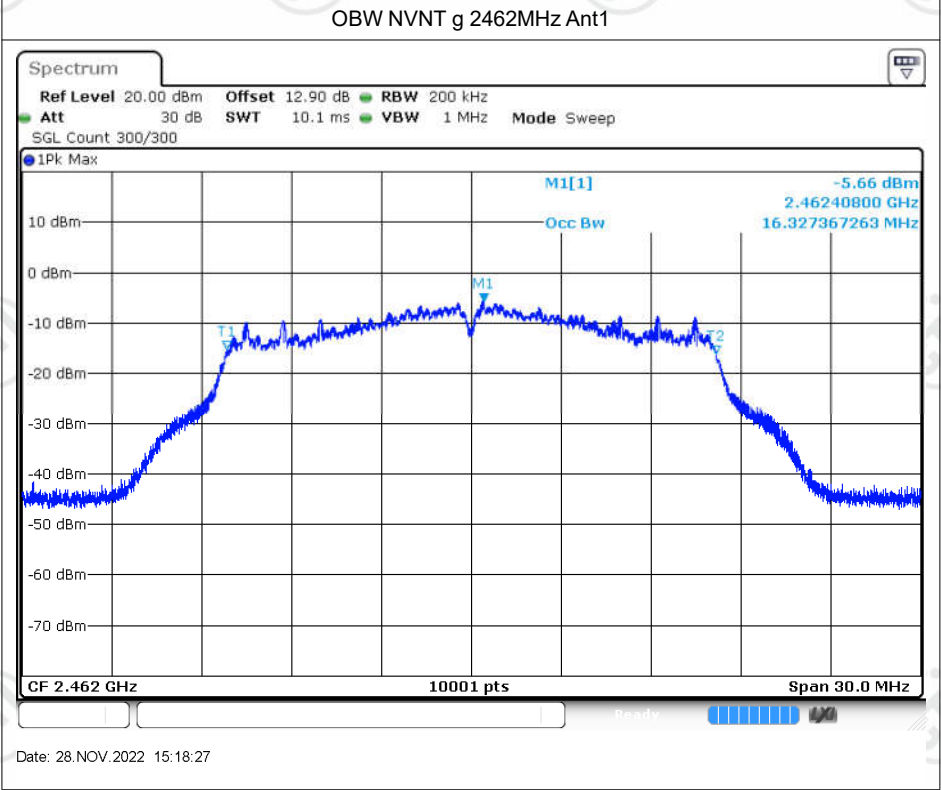
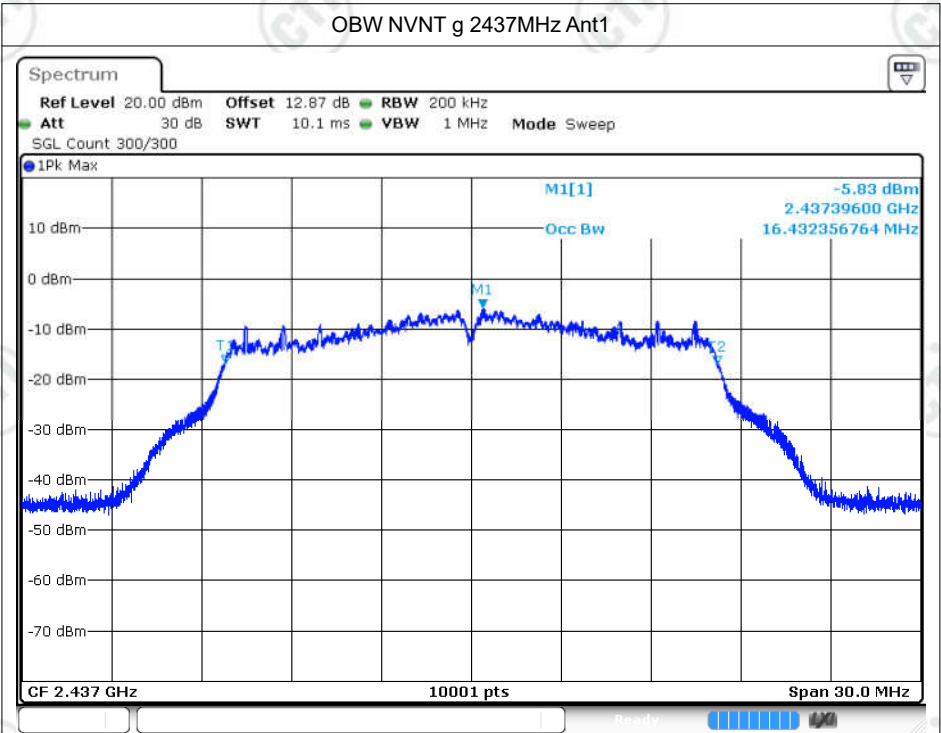


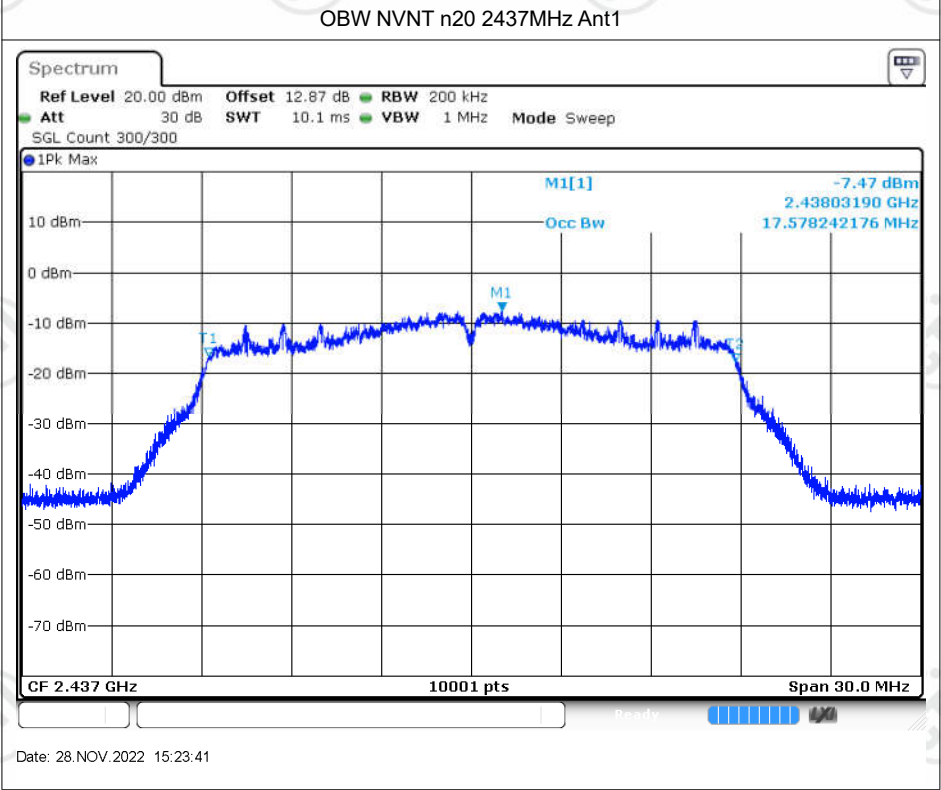
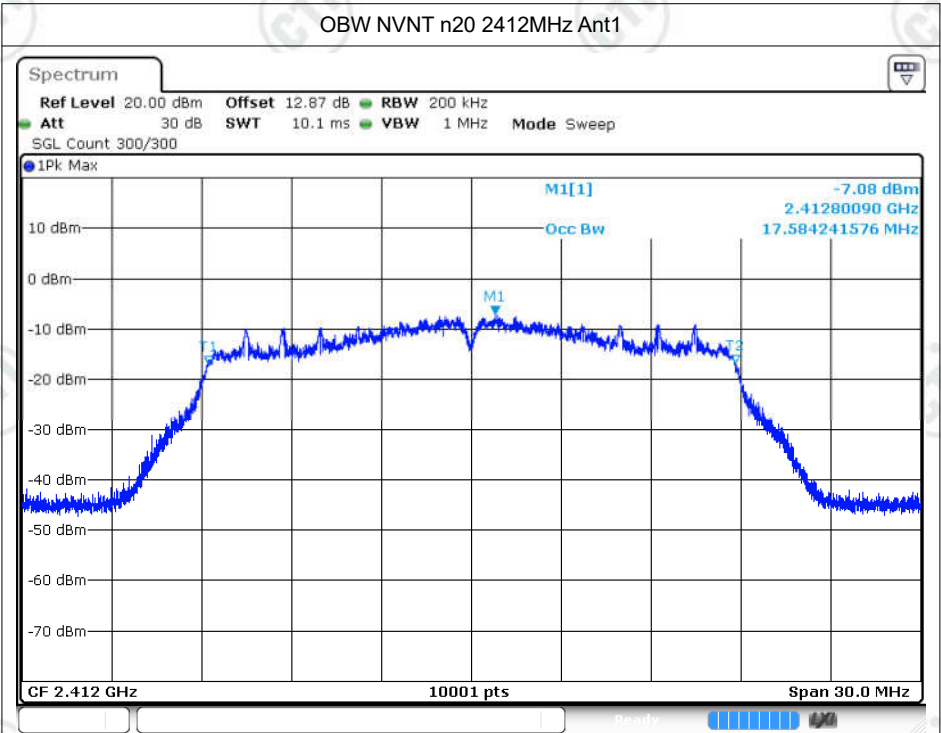


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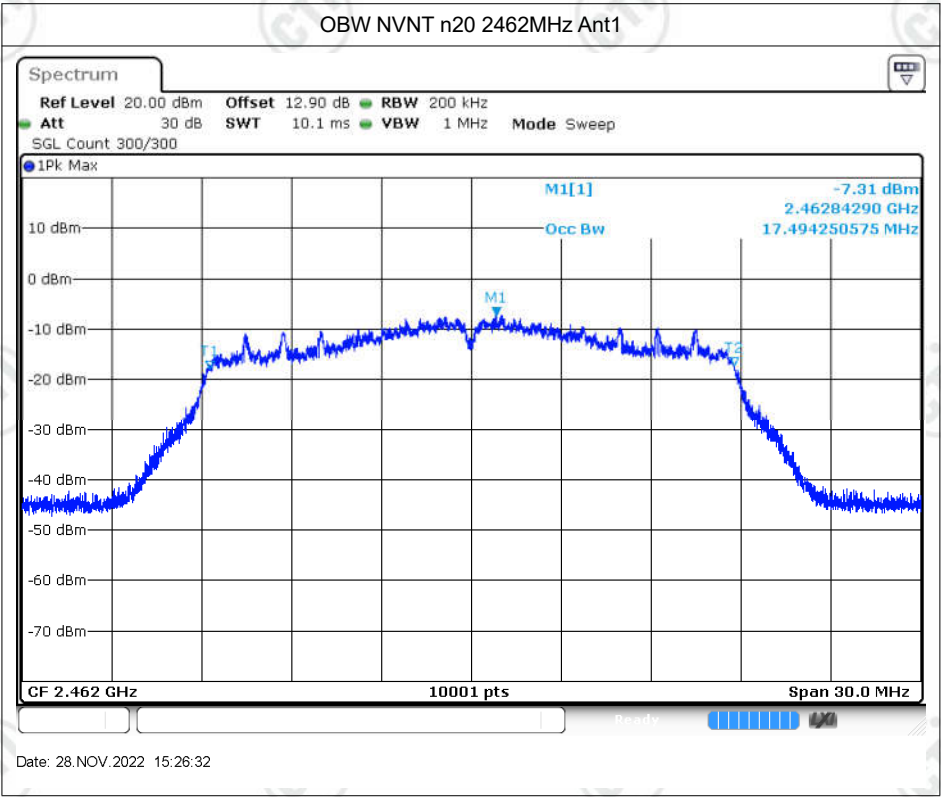


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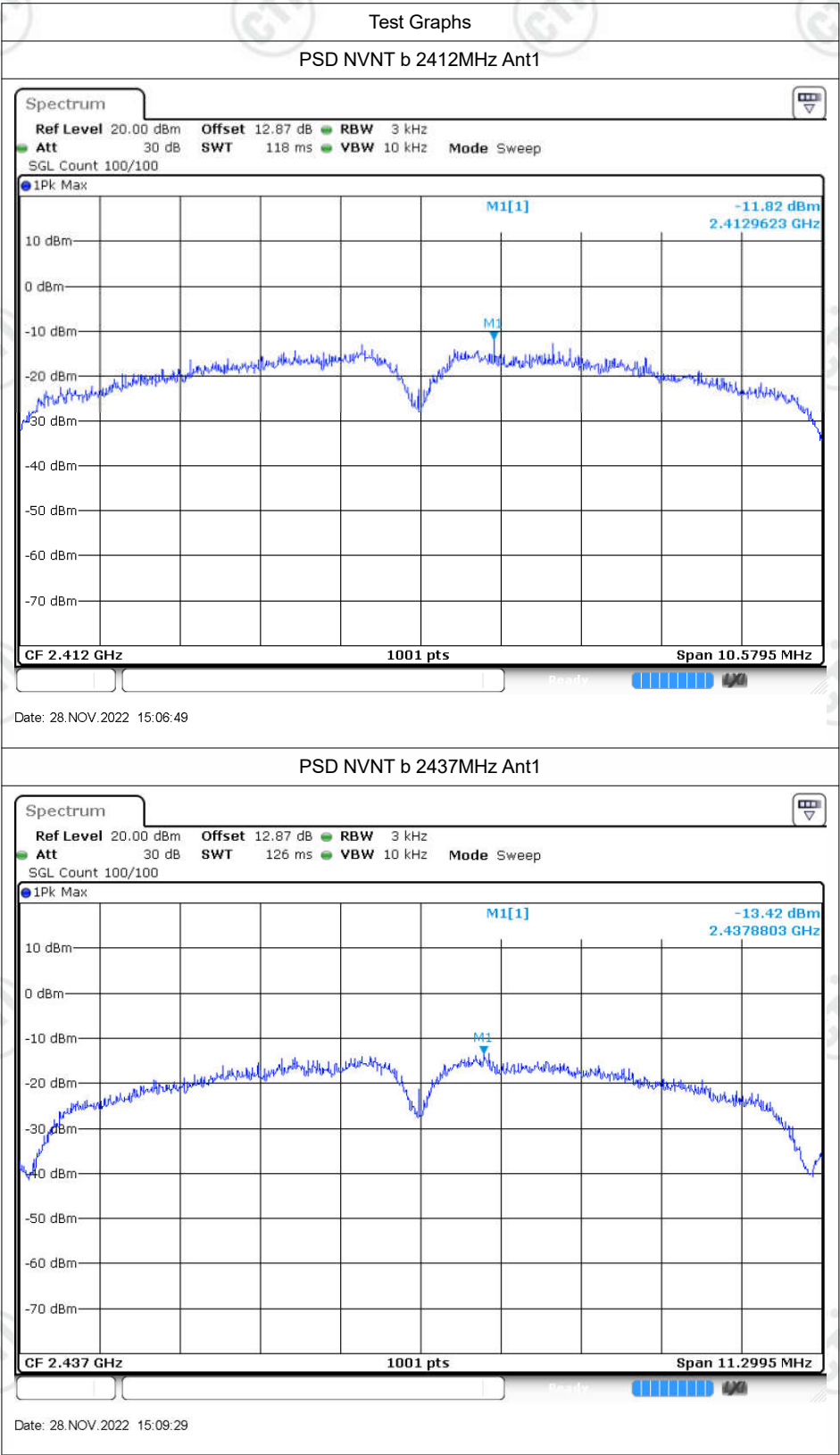


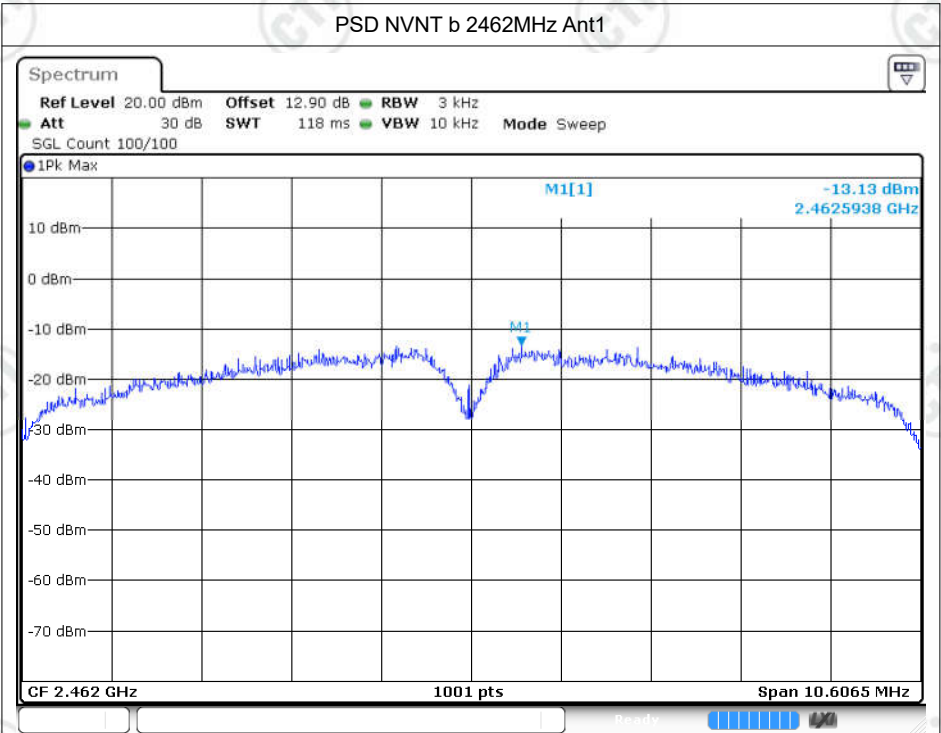




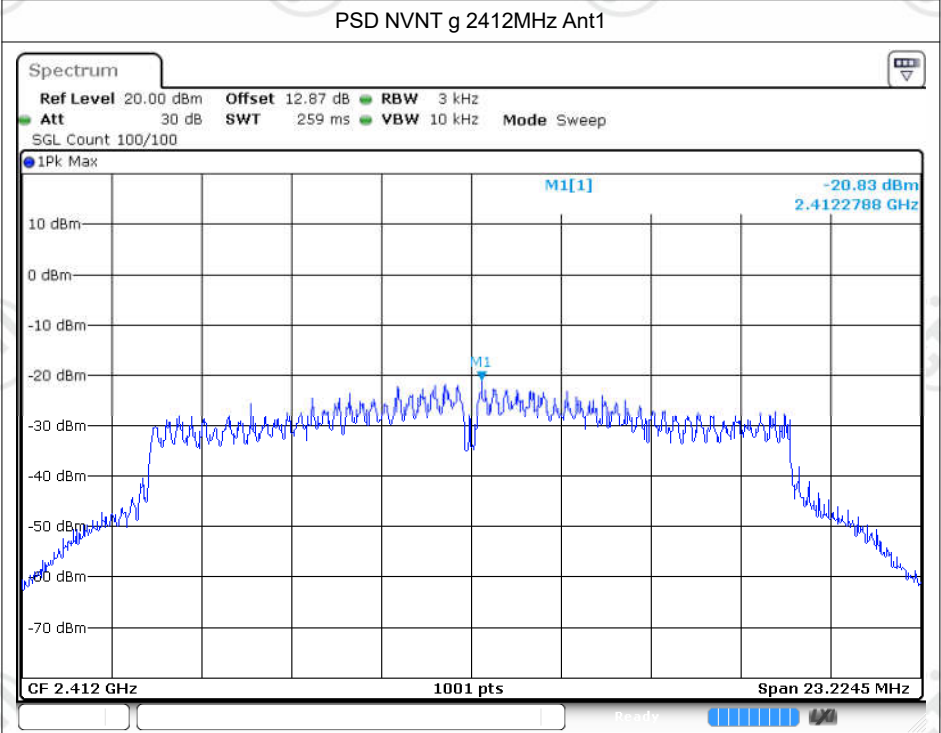
Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD<br>(dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------------|------------------|---------|
| NVNT      | b    | 2412            | Ant1    | -11.82                      | 8                | Pass    |
| NVNT      | b    | 2437            | Ant1    | -13.42                      | 8                | Pass    |
| NVNT      | b    | 2462            | Ant1    | -13.13                      | 8                | Pass    |
| NVNT      | g    | 2412            | Ant1    | -20.83                      | 8                | Pass    |
| NVNT      | g    | 2437            | Ant1    | -20.14                      | 8                | Pass    |
| NVNT      | g    | 2462            | Ant1    | -19.87                      | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -21.59                      | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -21.84                      | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -21.66                      | 8                | Pass    |

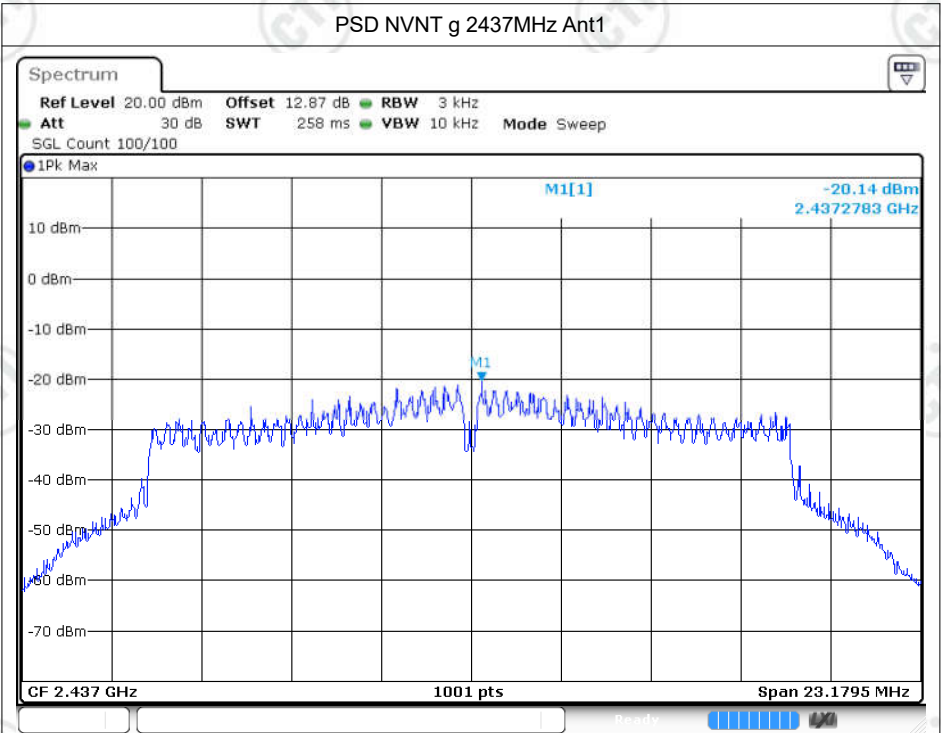




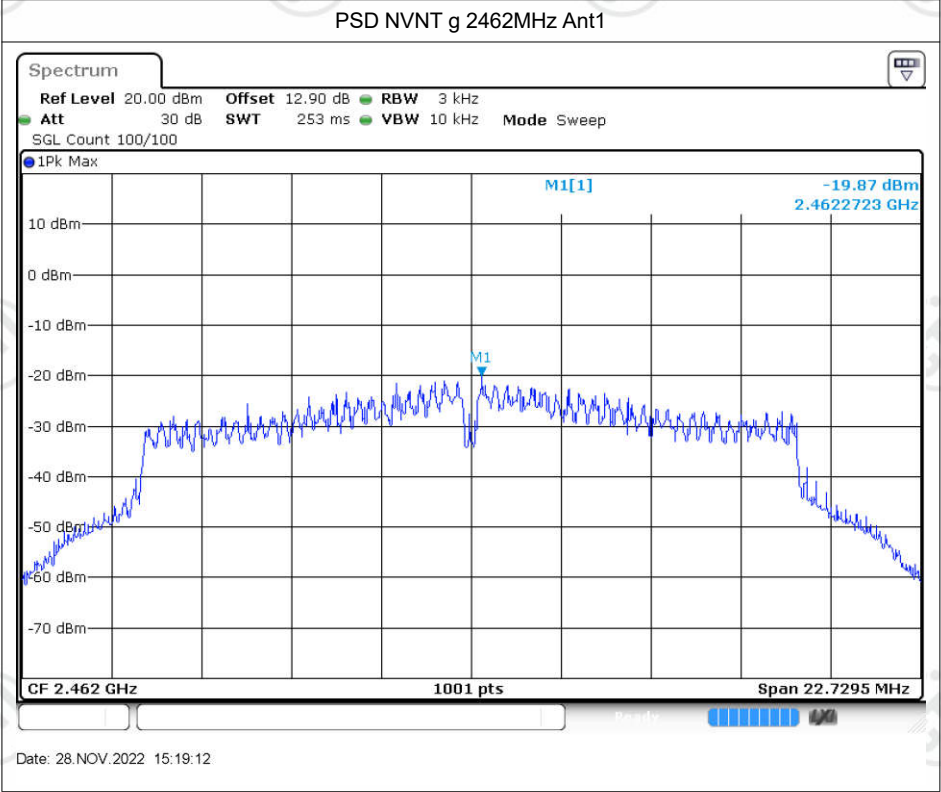
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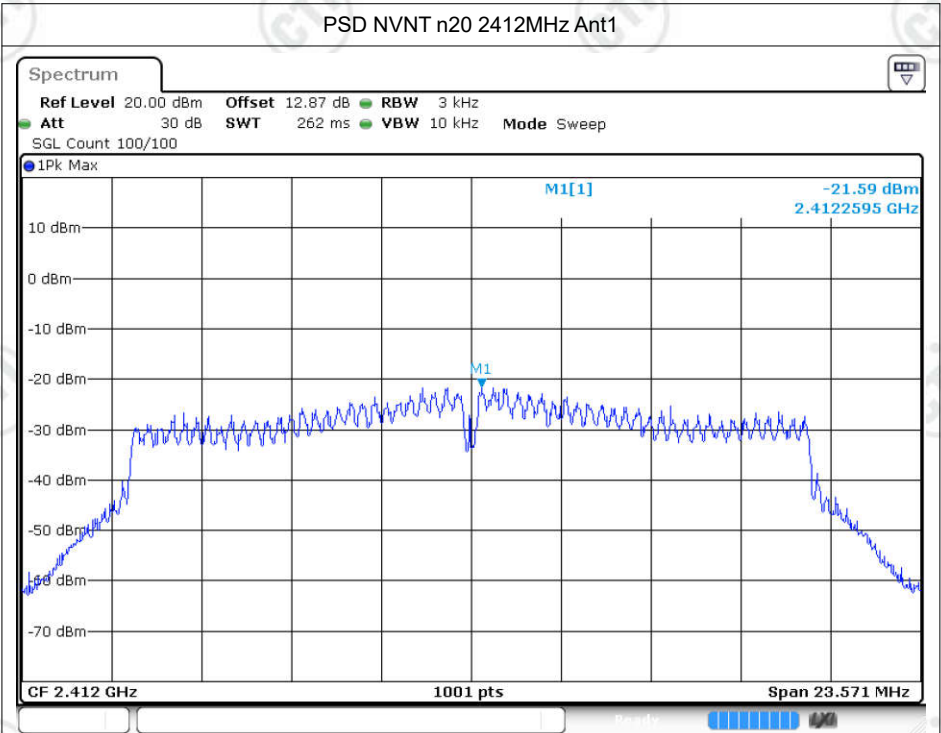
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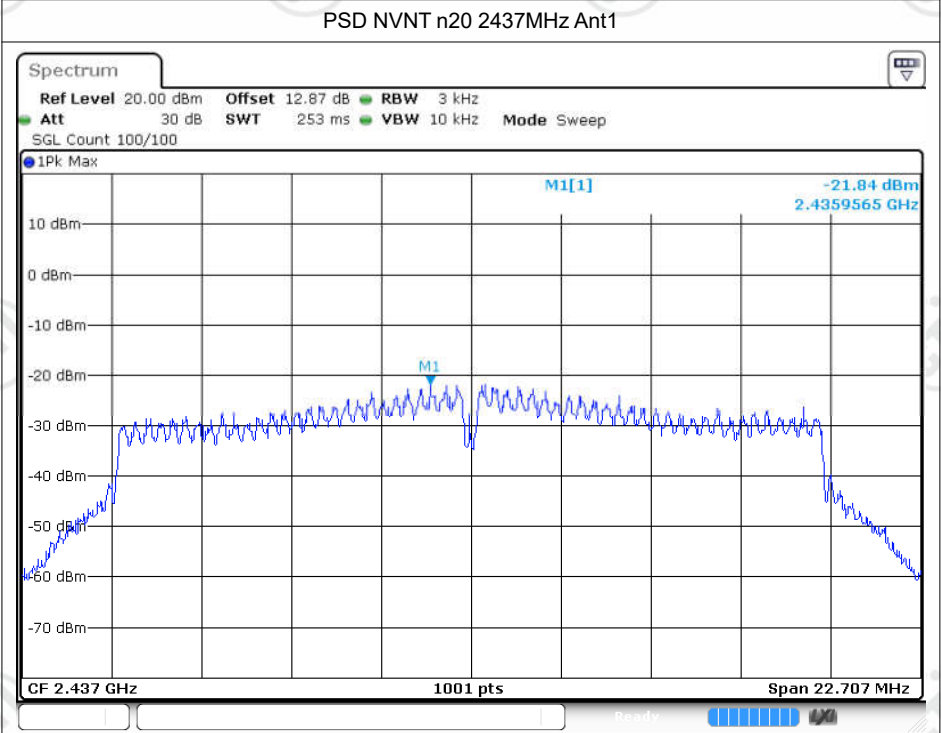
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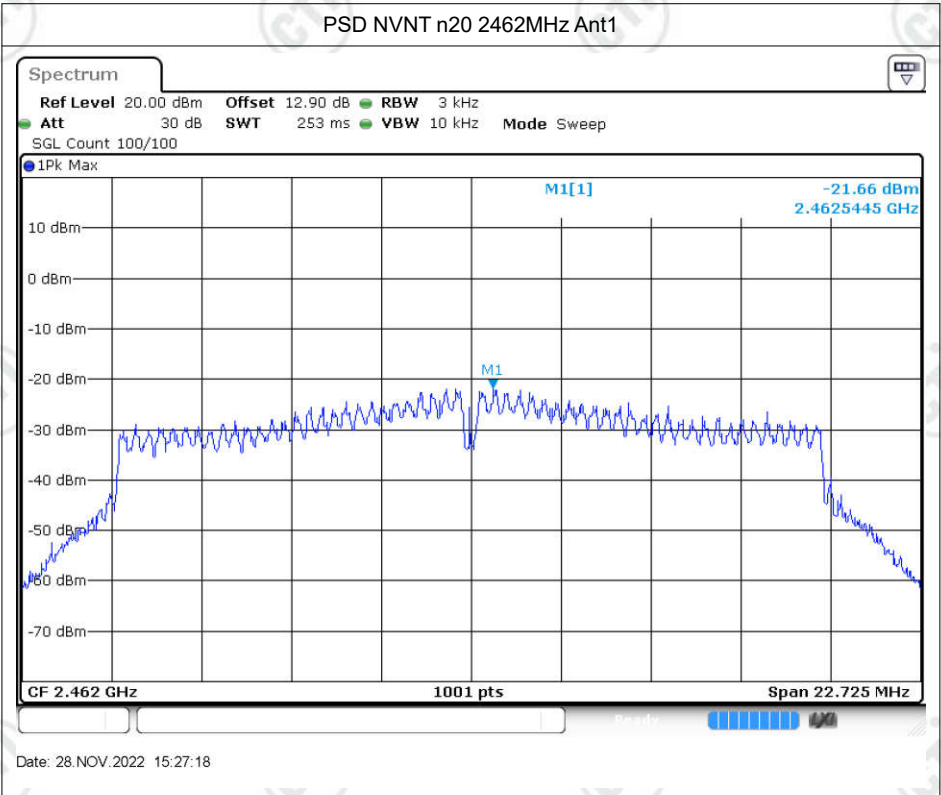


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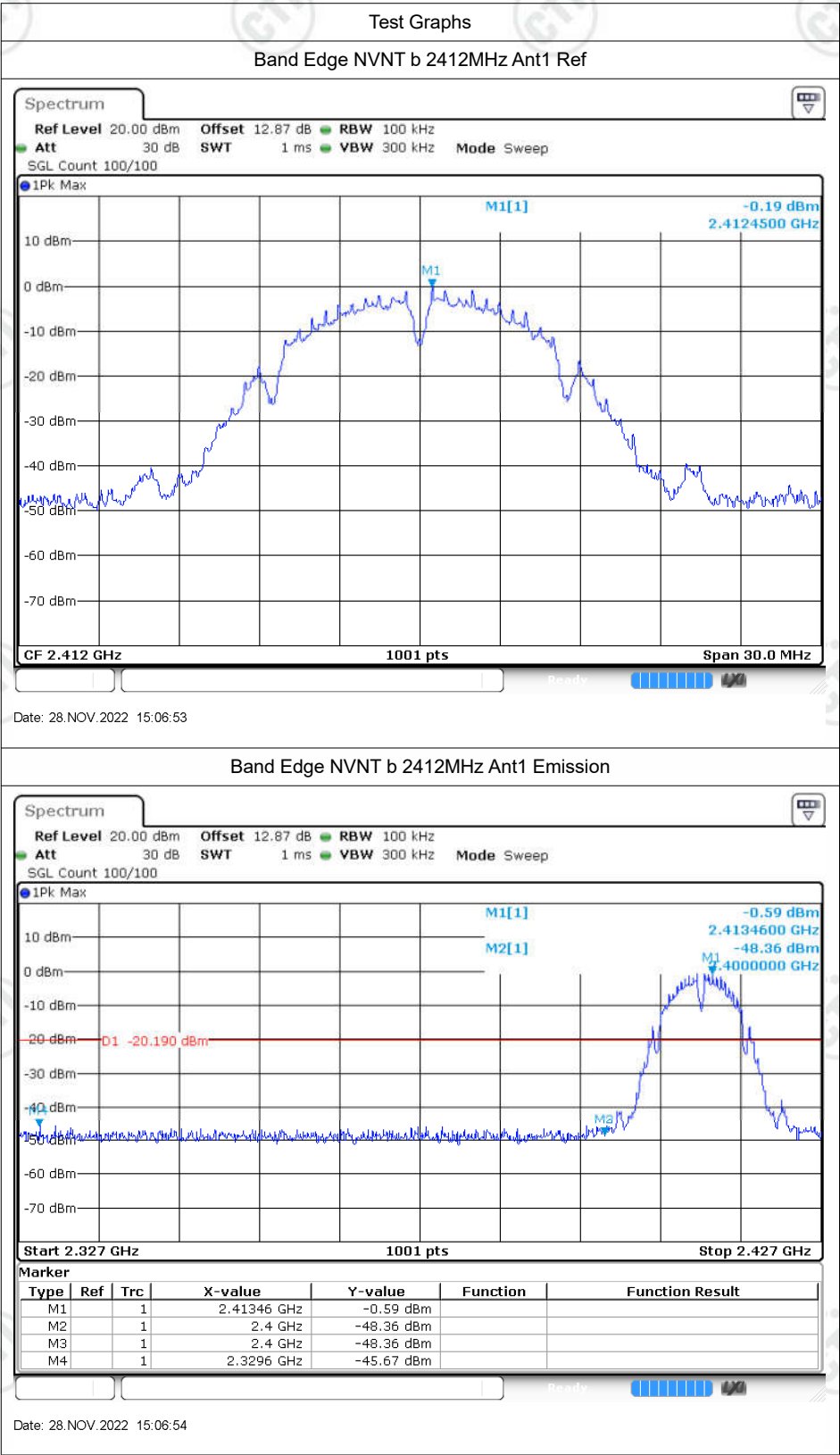
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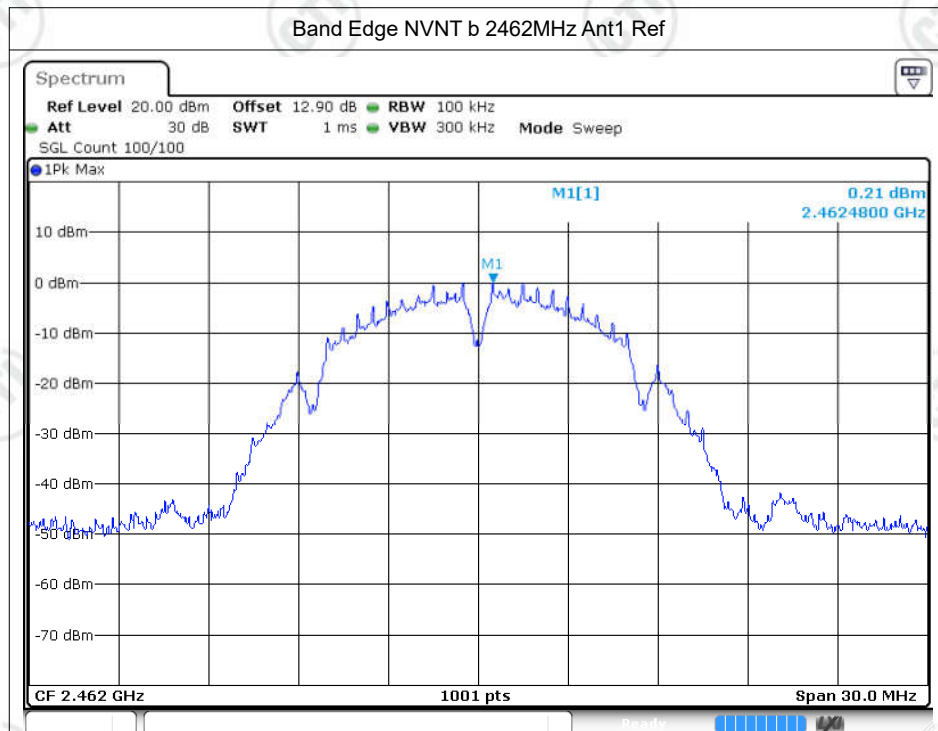




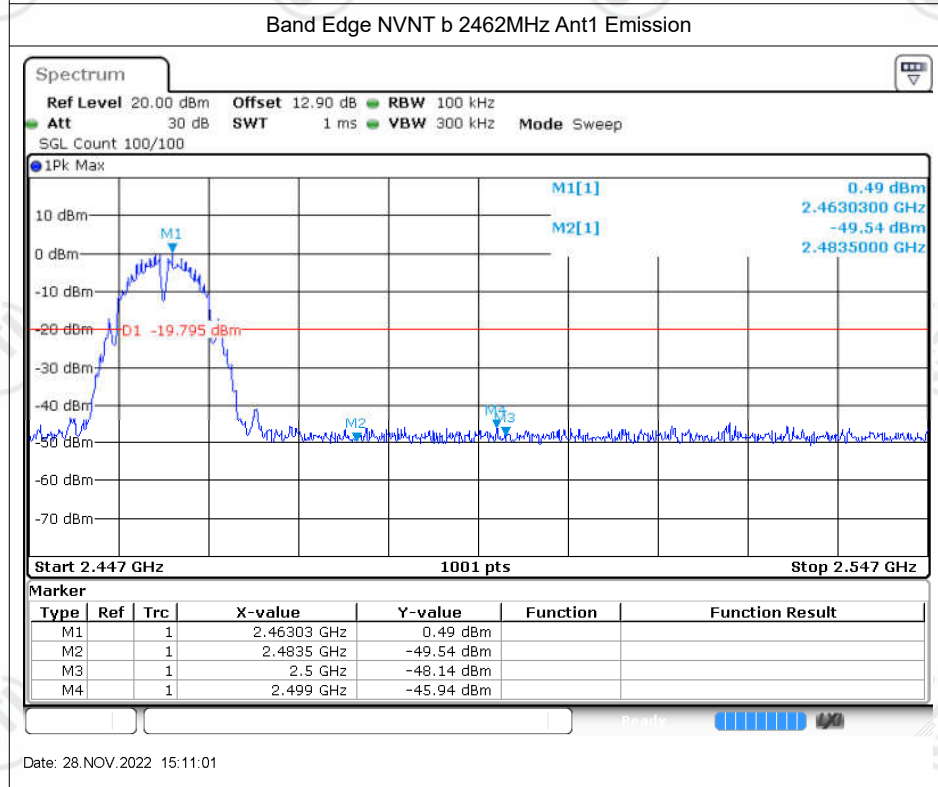
Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -45.47          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -46.14          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -35.32          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -36.86          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -34.61          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -35.11          | -20         | Pass    |

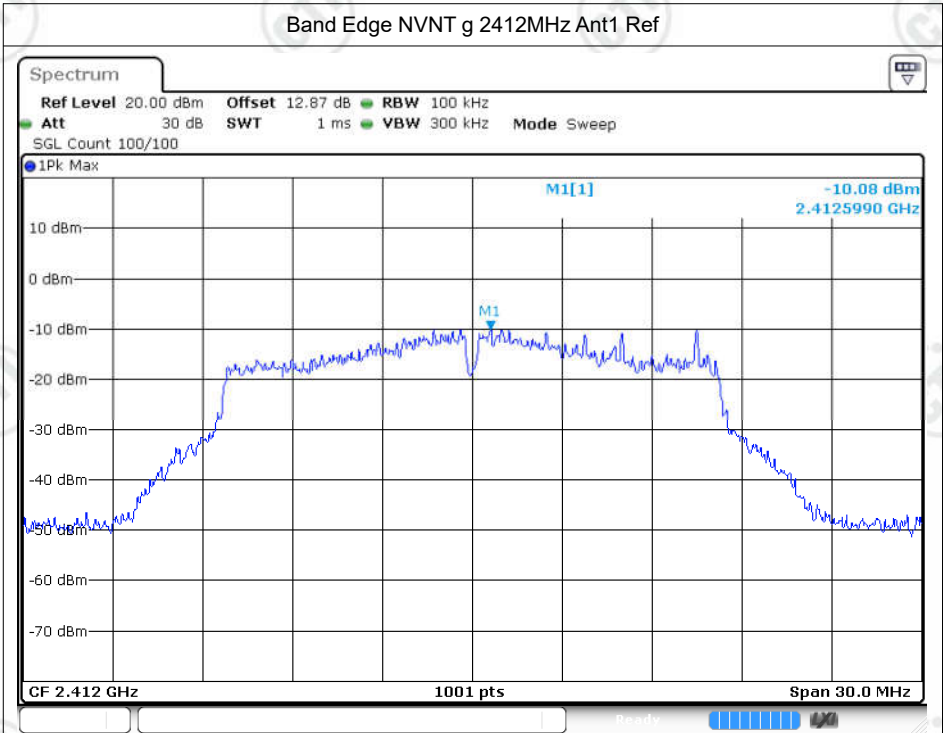




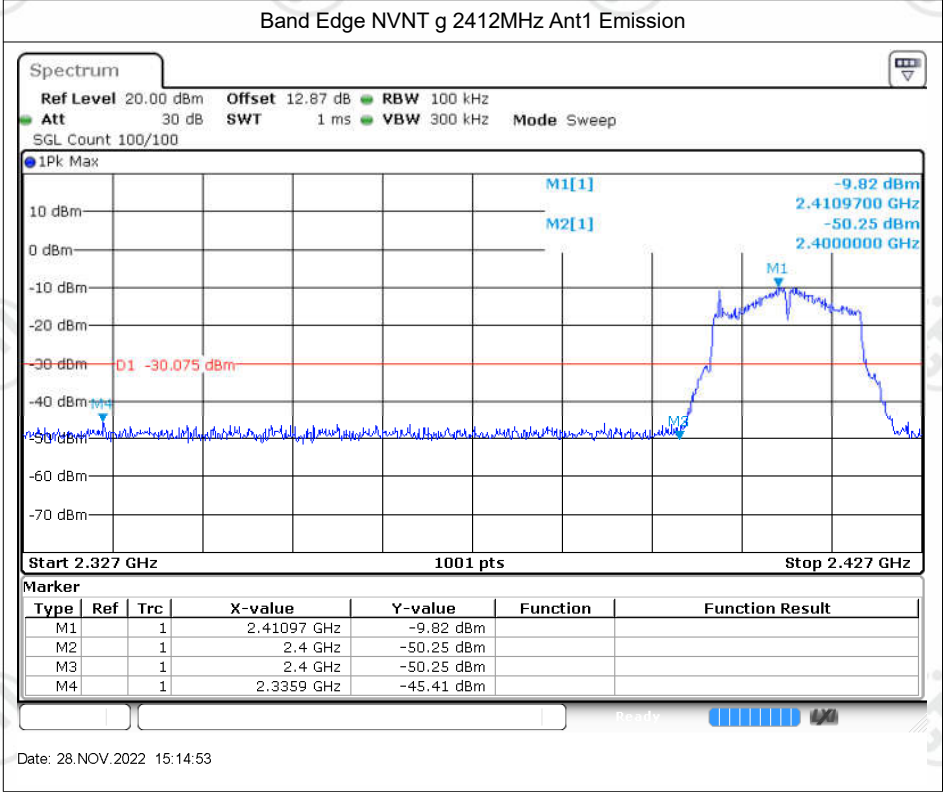
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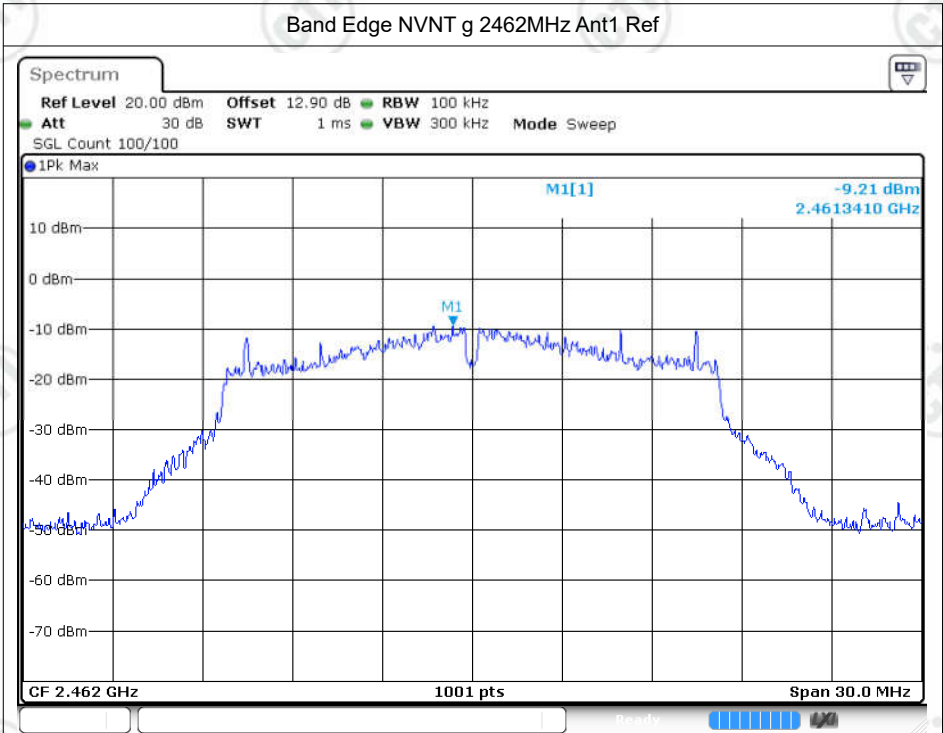
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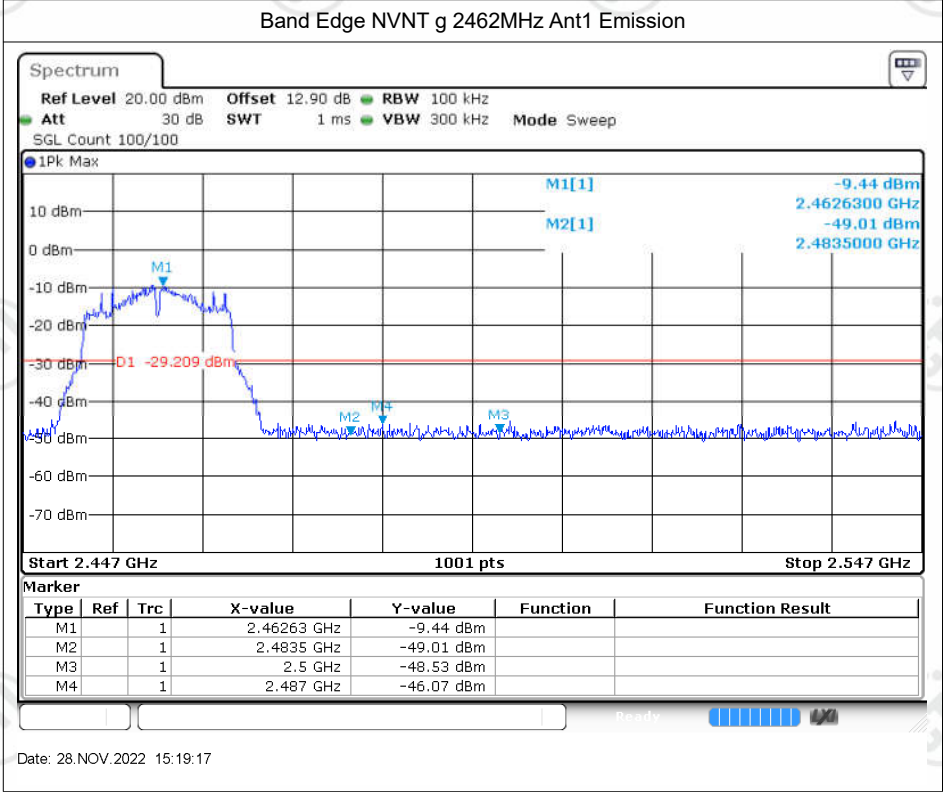
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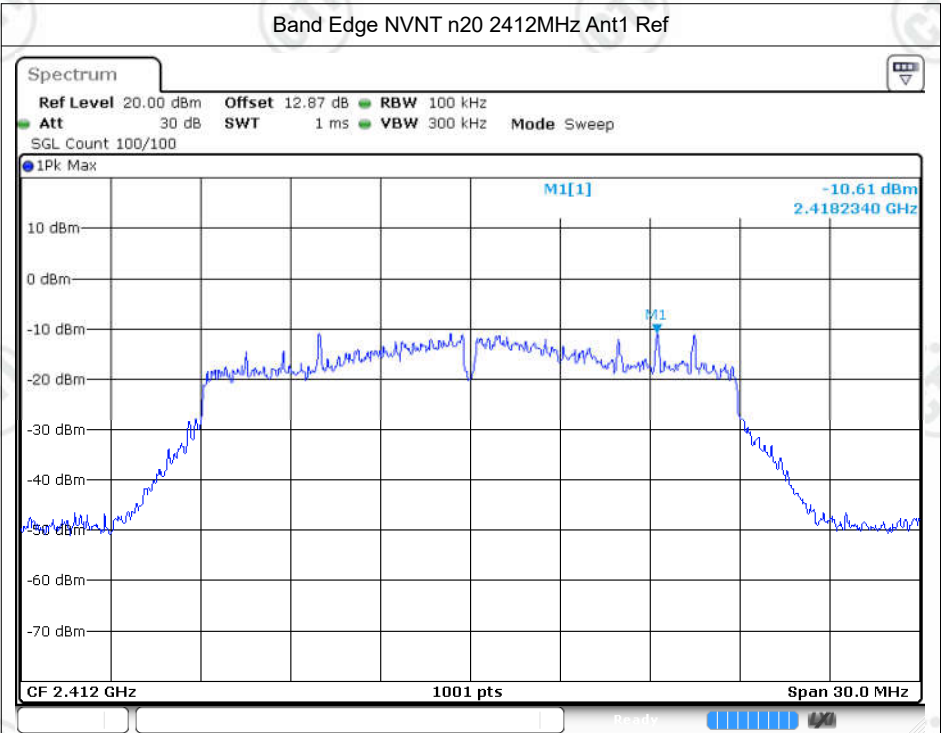


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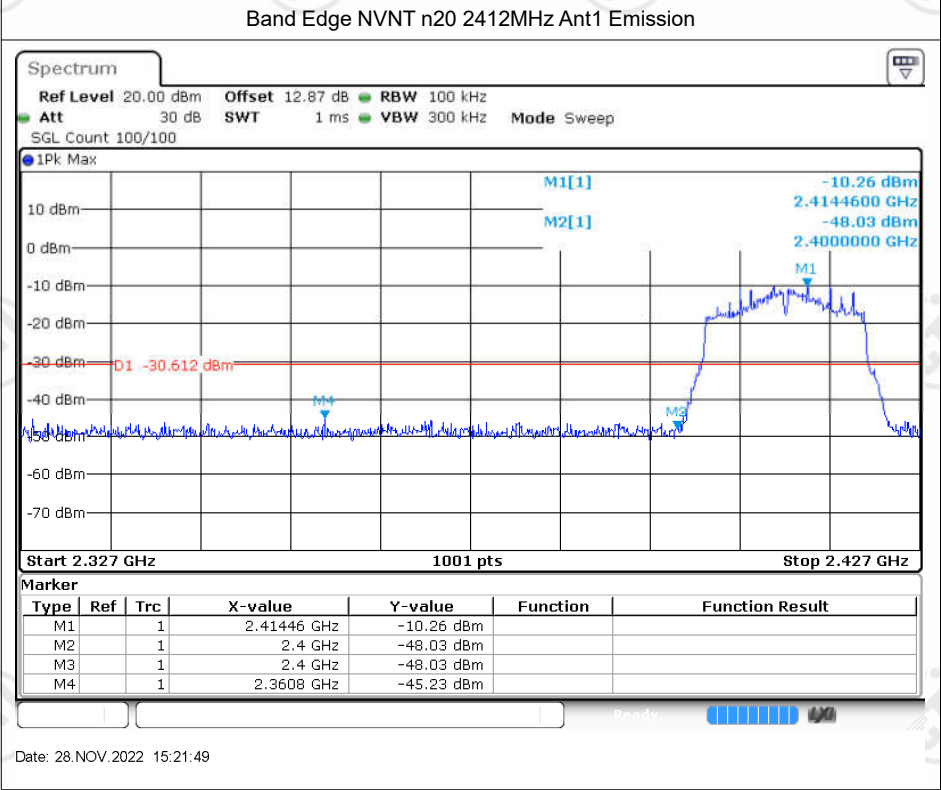


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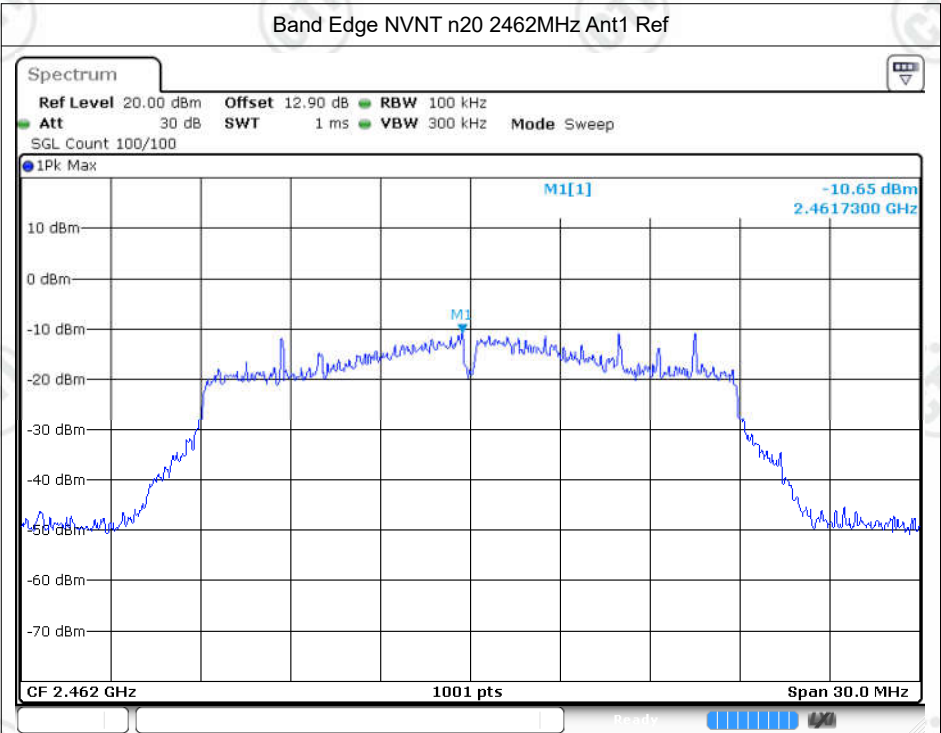




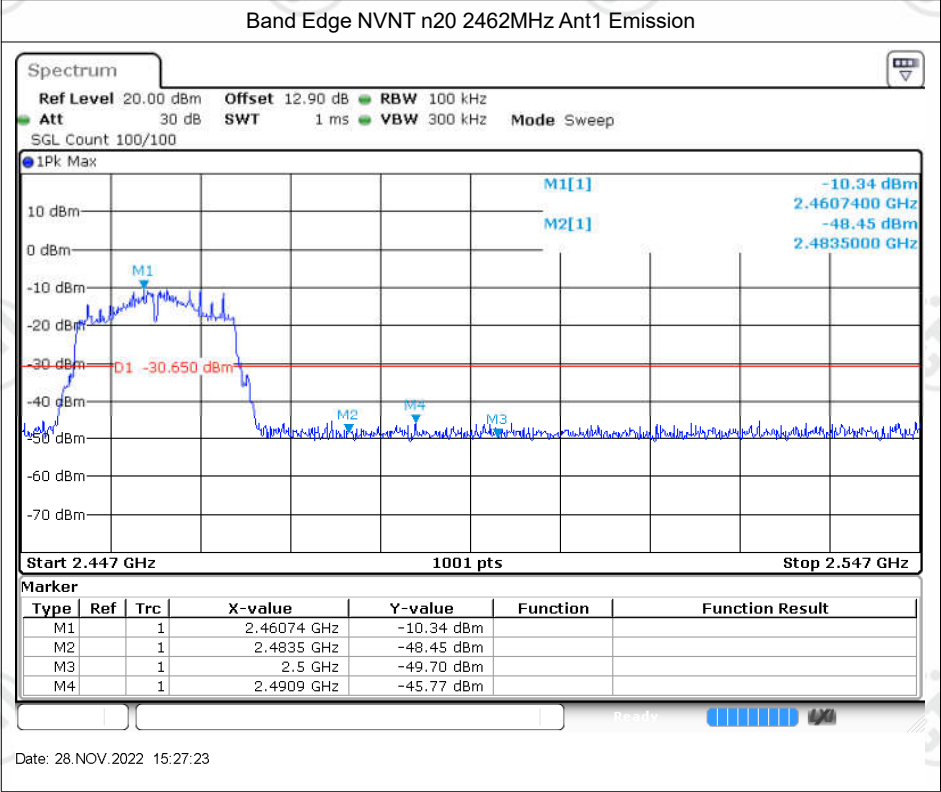
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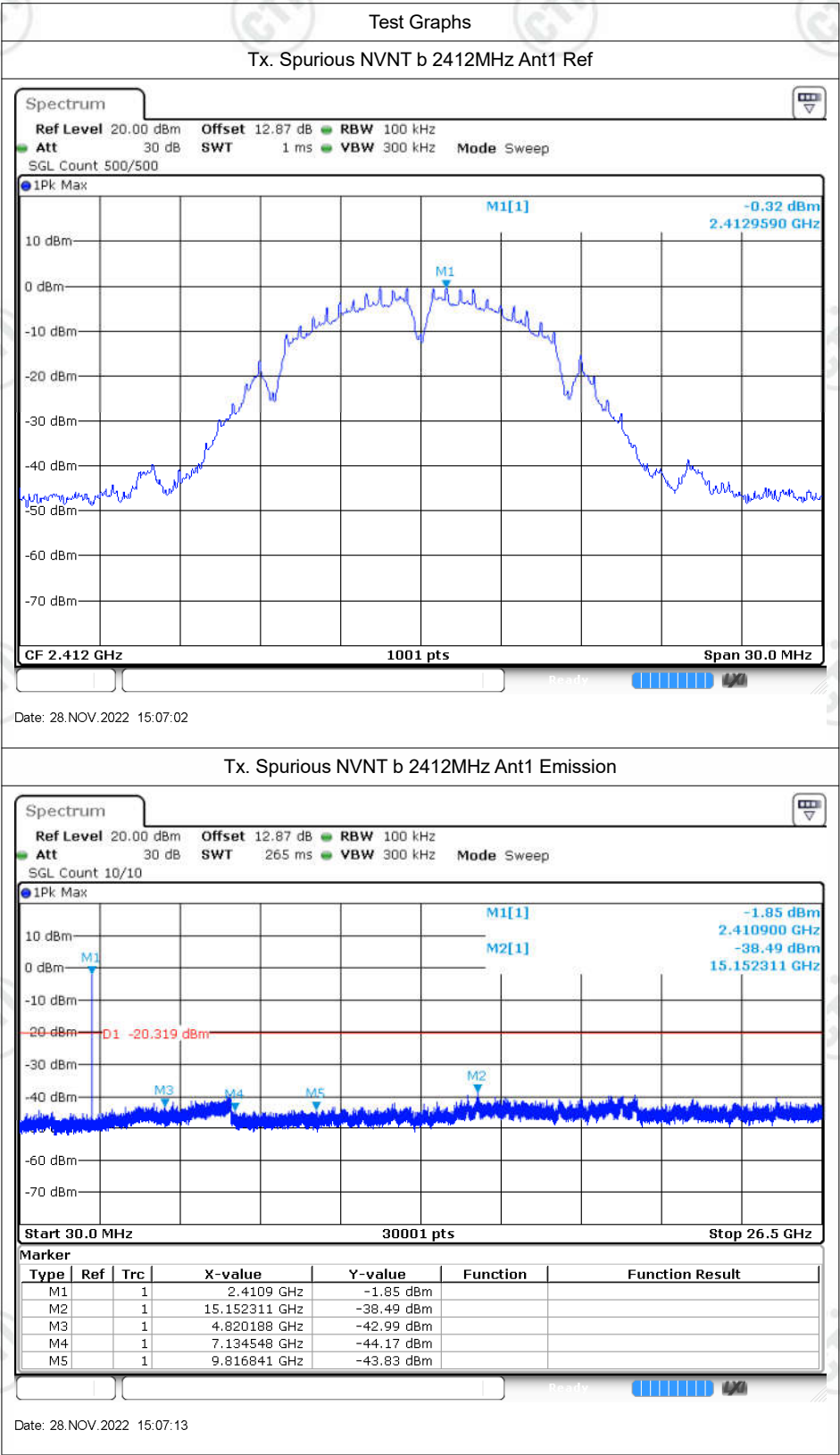
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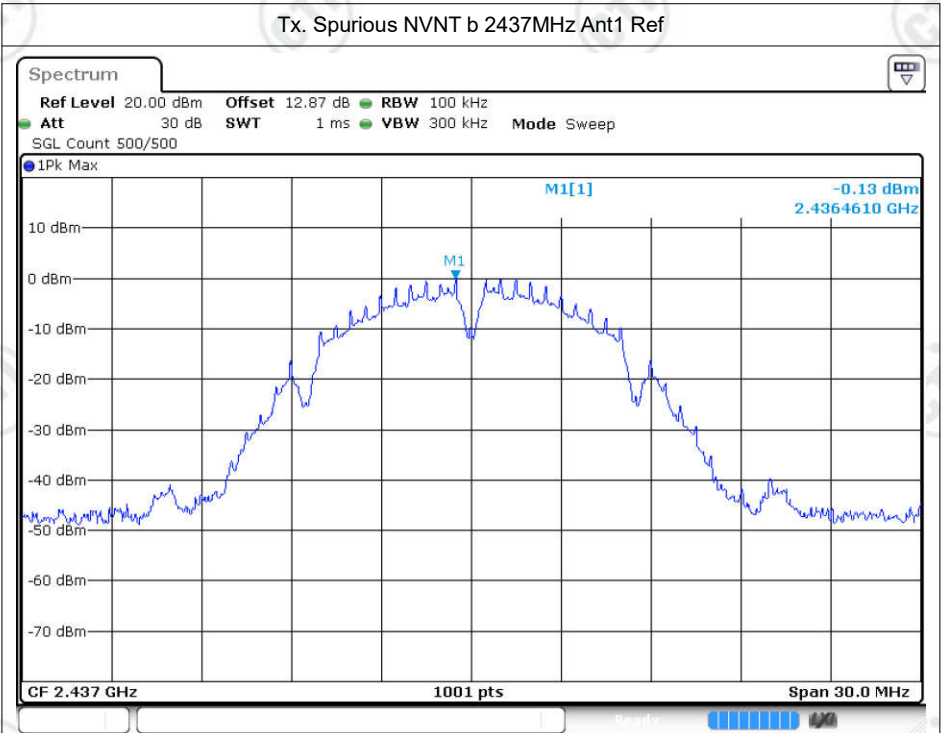


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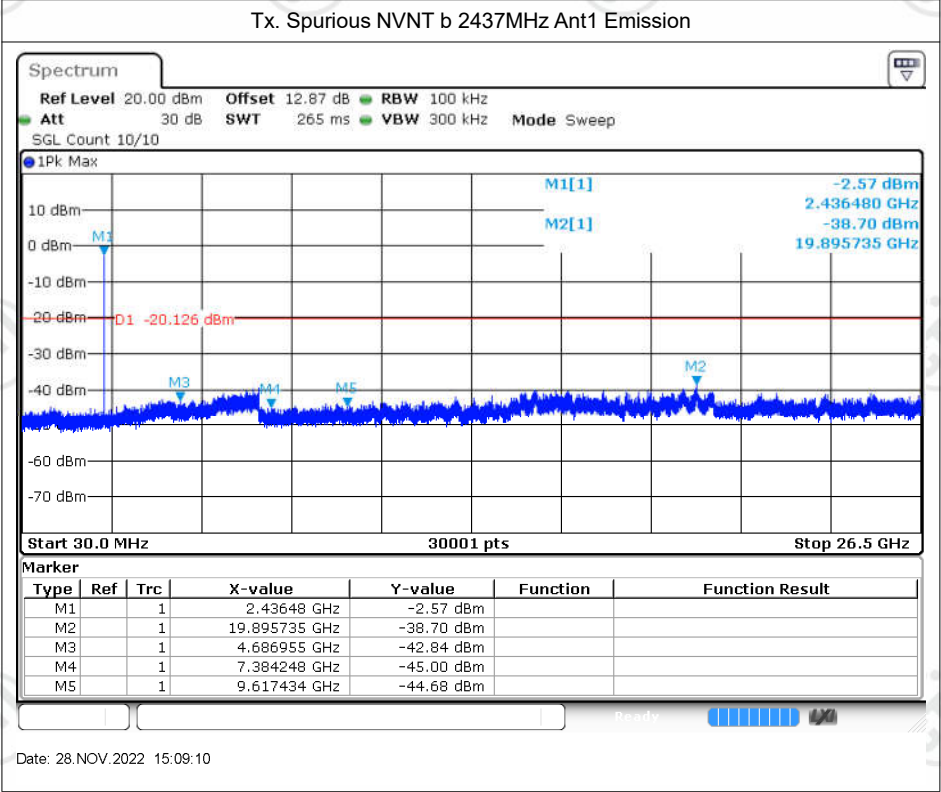
Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -38.16          | -20         | Pass    |
| NVNT      | b    | 2437            | Ant1    | -38.56          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -39.73          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -29.32          | -20         | Pass    |
| NVNT      | g    | 2437            | Ant1    | -29.52          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -30.13          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -27.43          | -20         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -28.44          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -28.19          | -20         | Pass    |

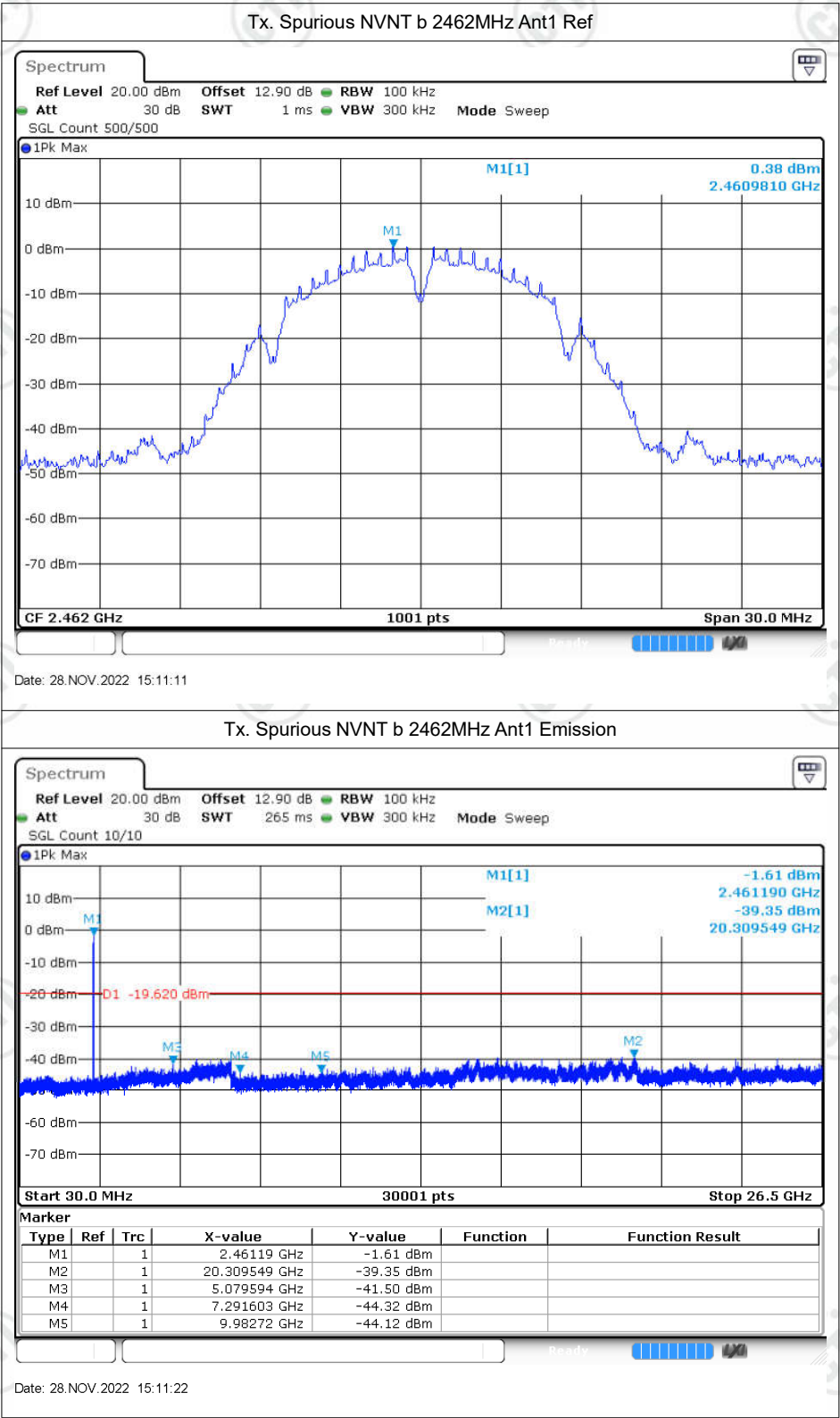




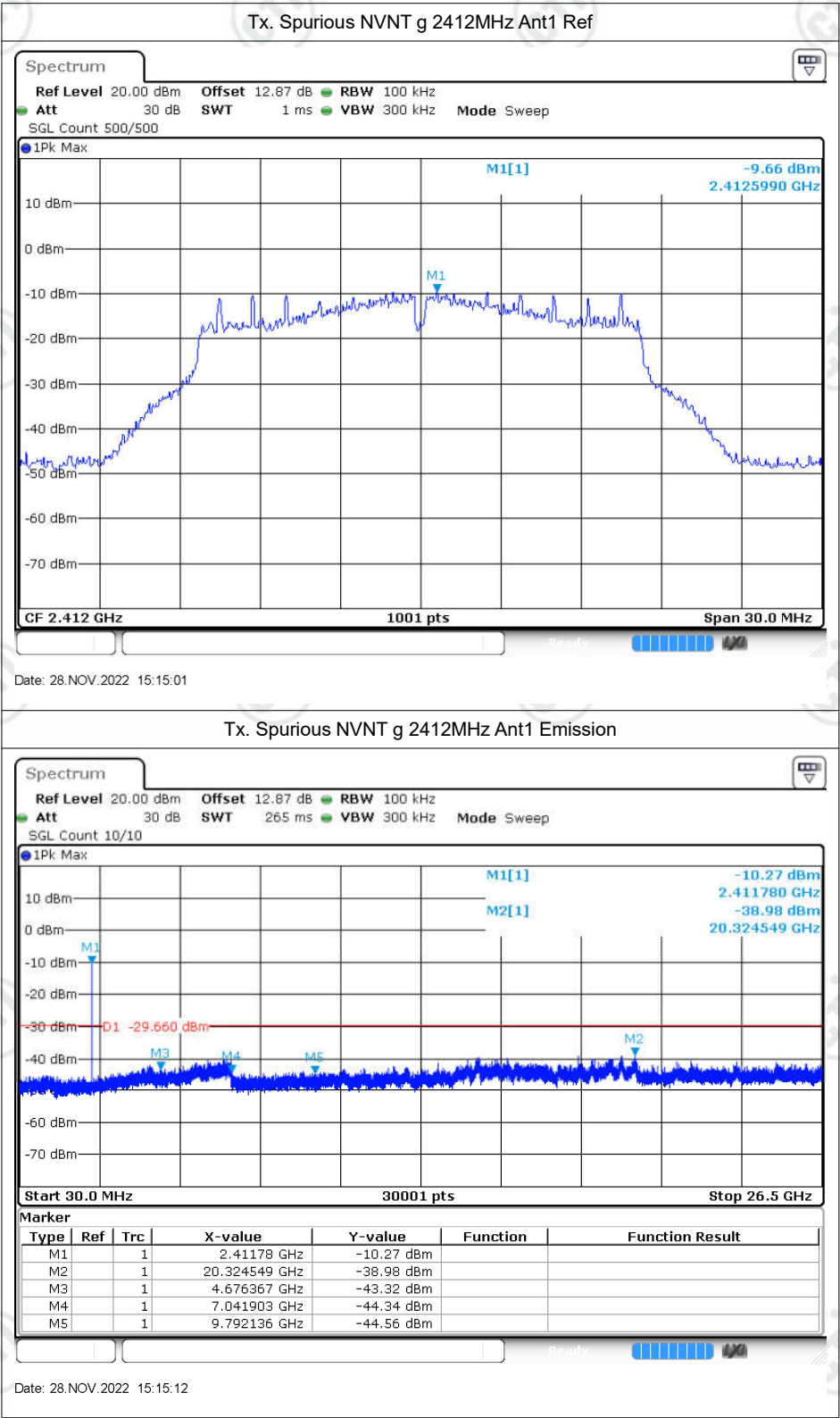
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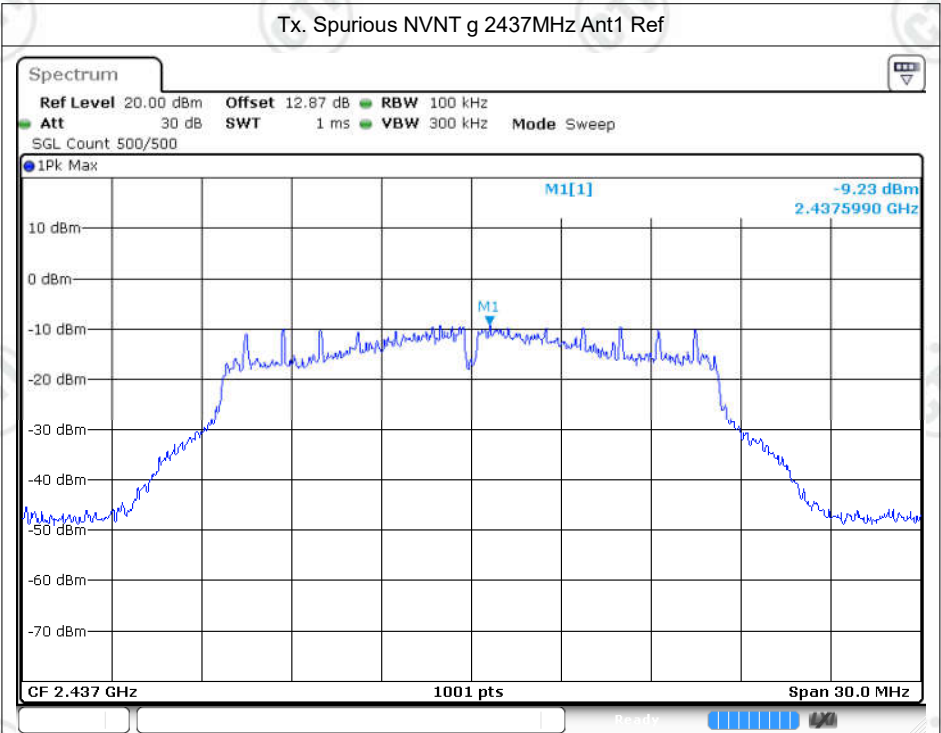


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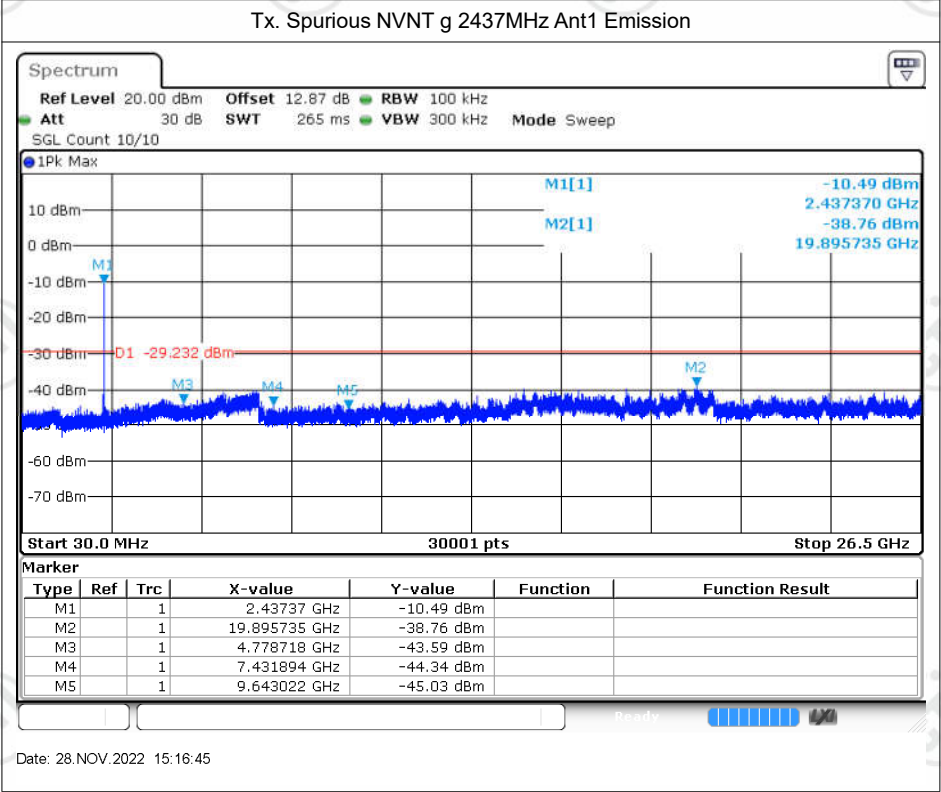




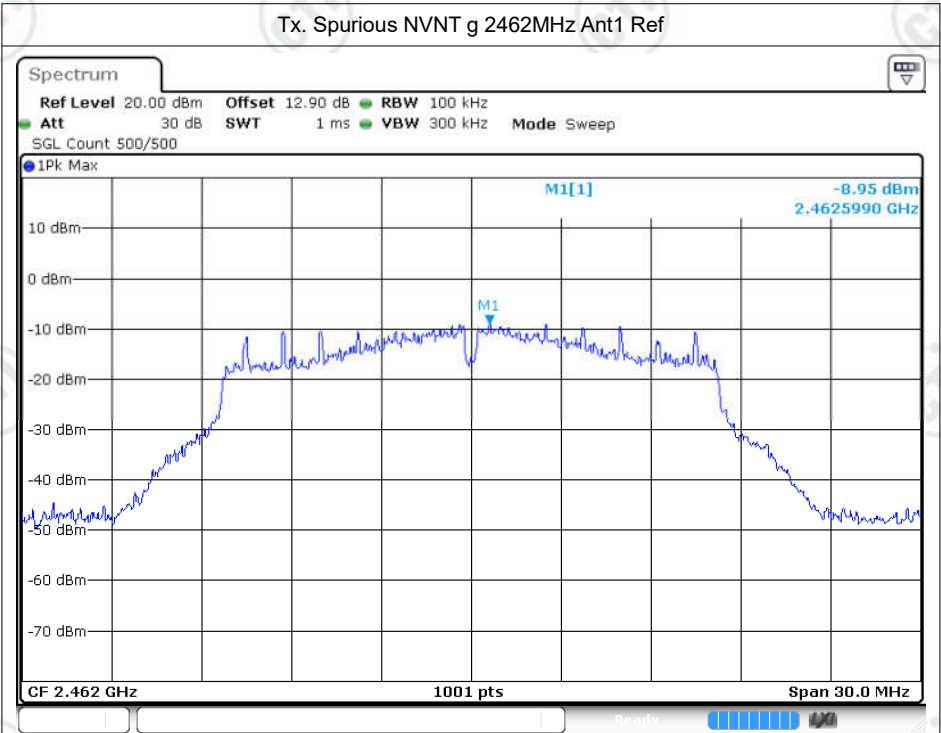




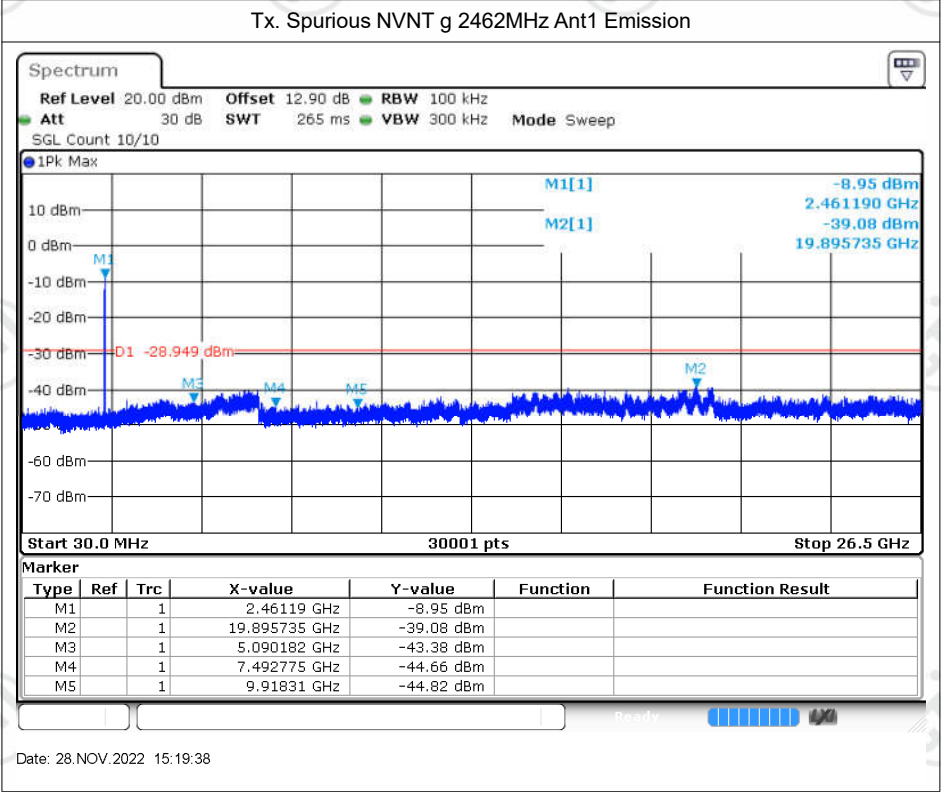
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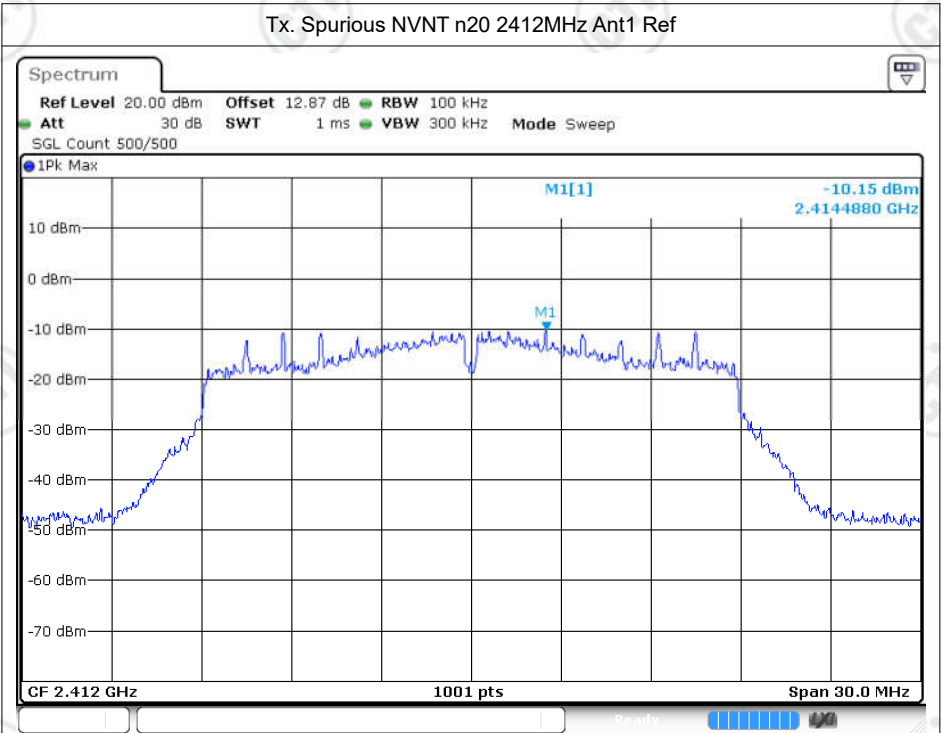
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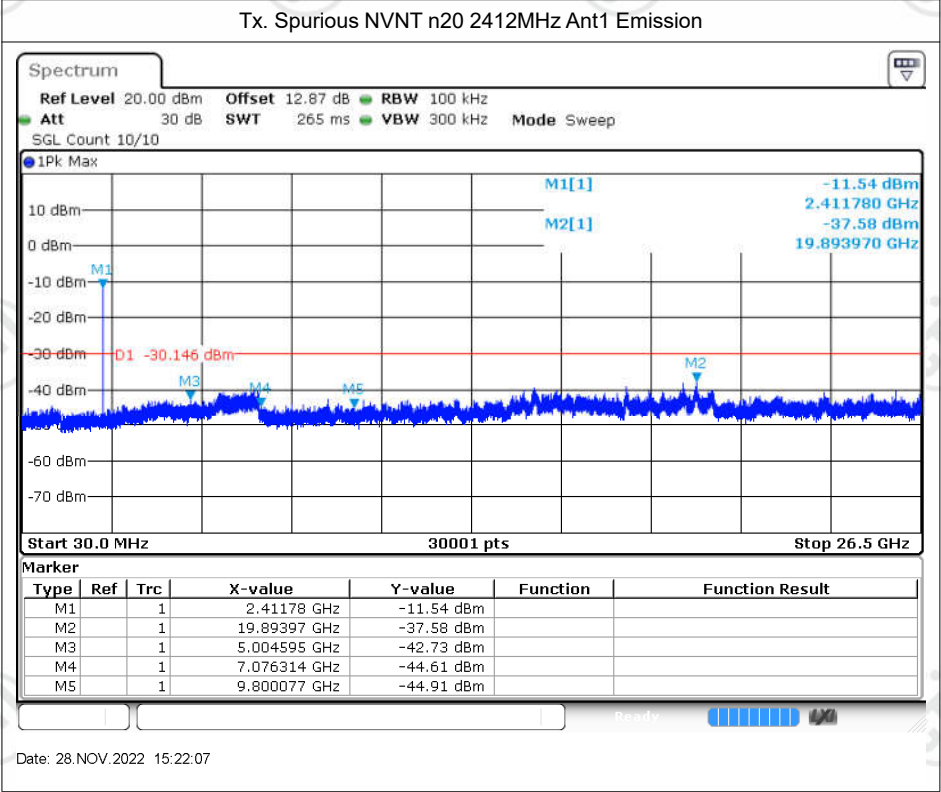
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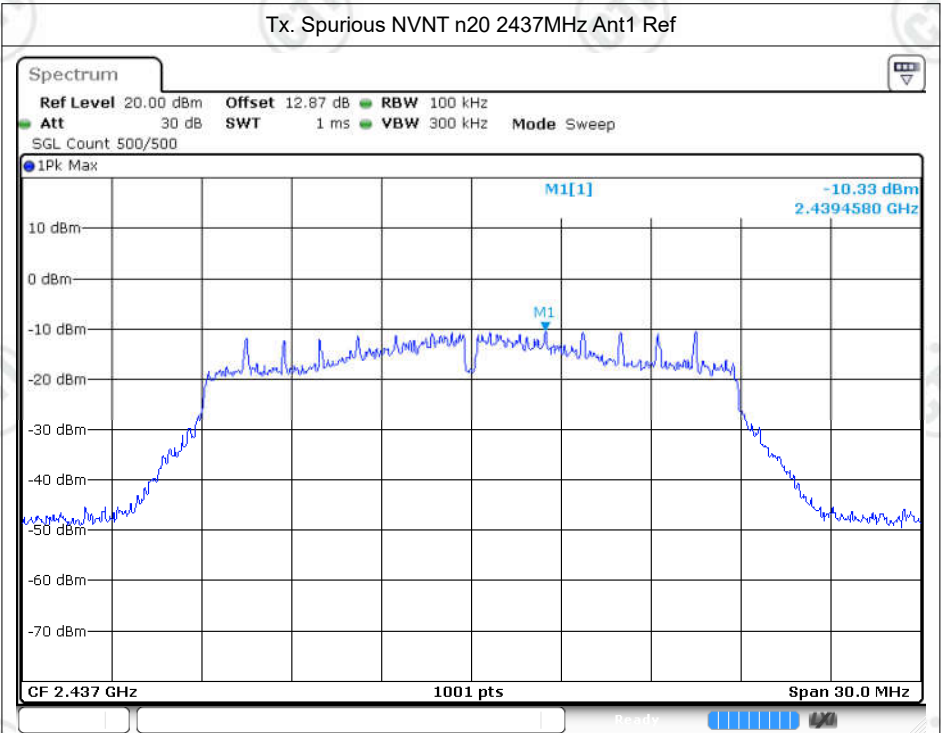
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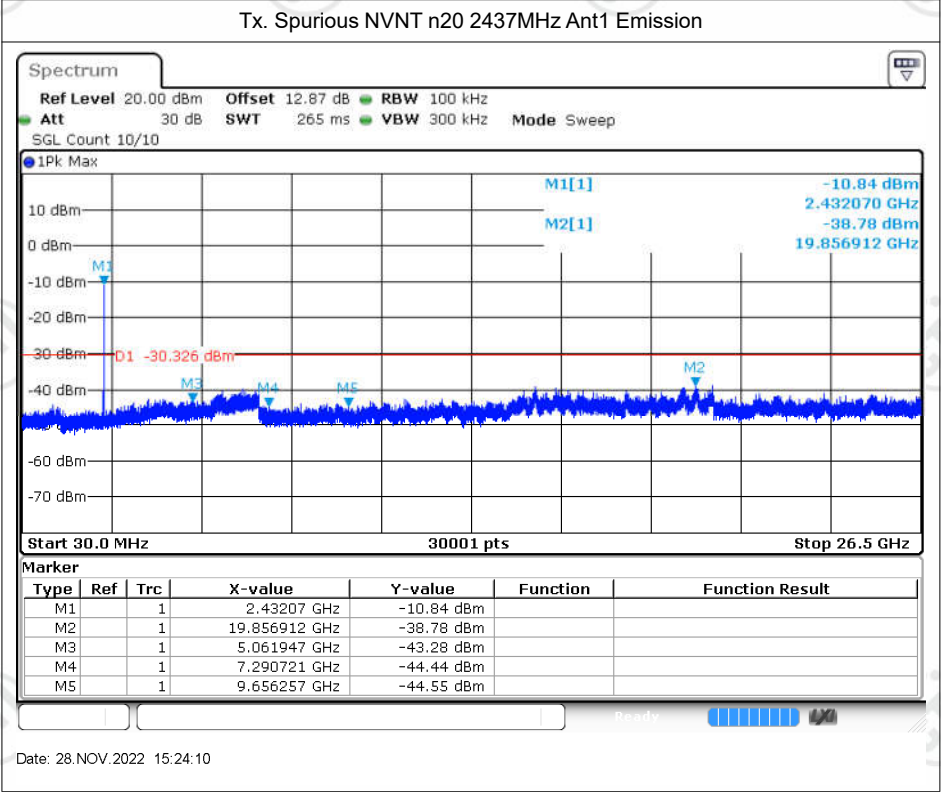
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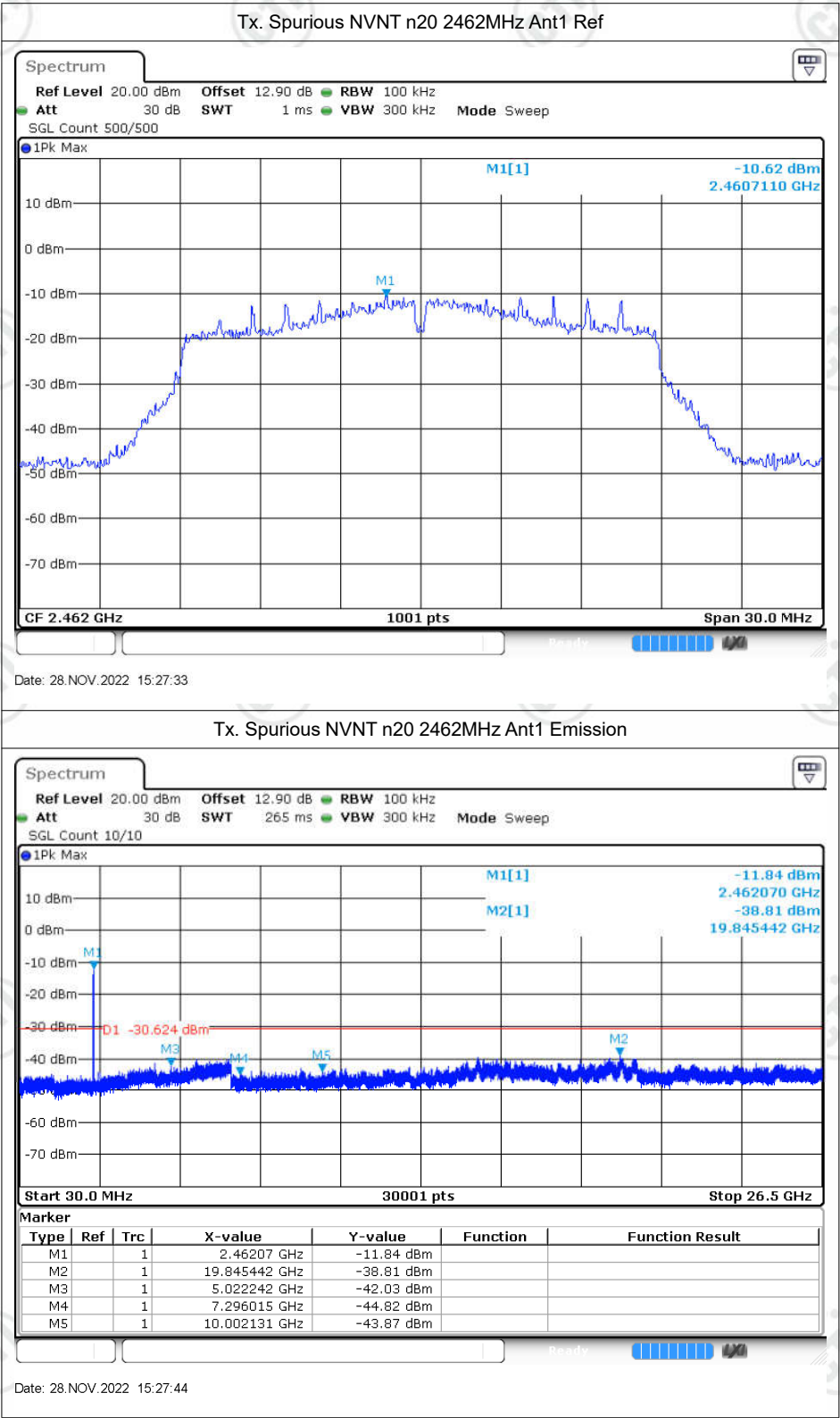


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Date: 28.NOV.2022 15:24:10





\*\*\* End of Report \*\*\*