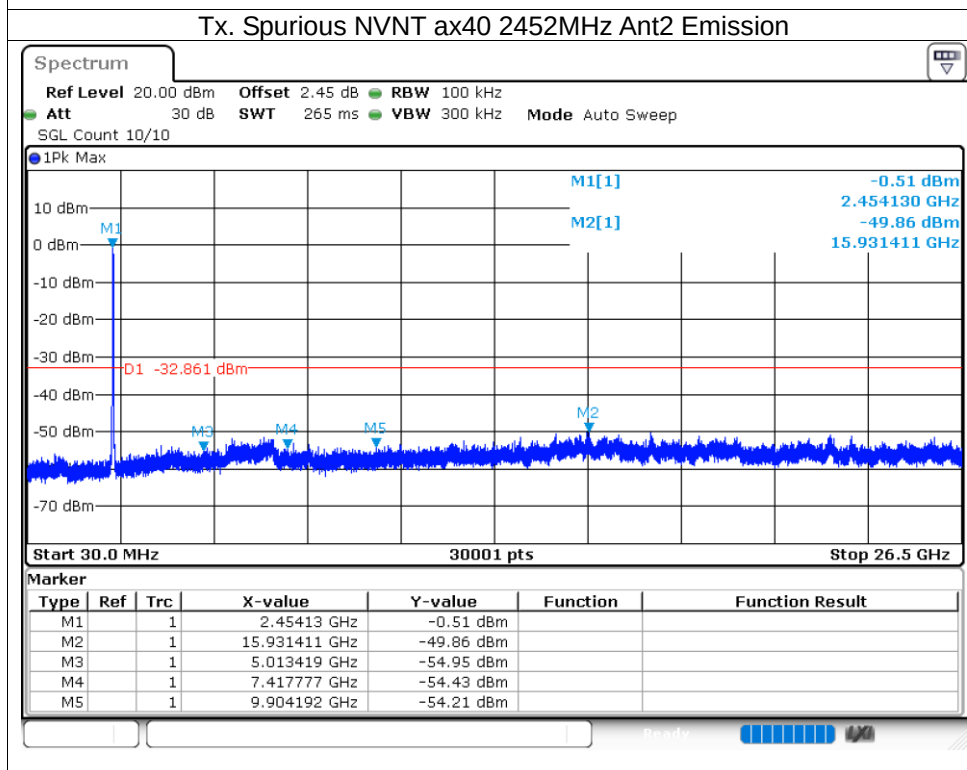
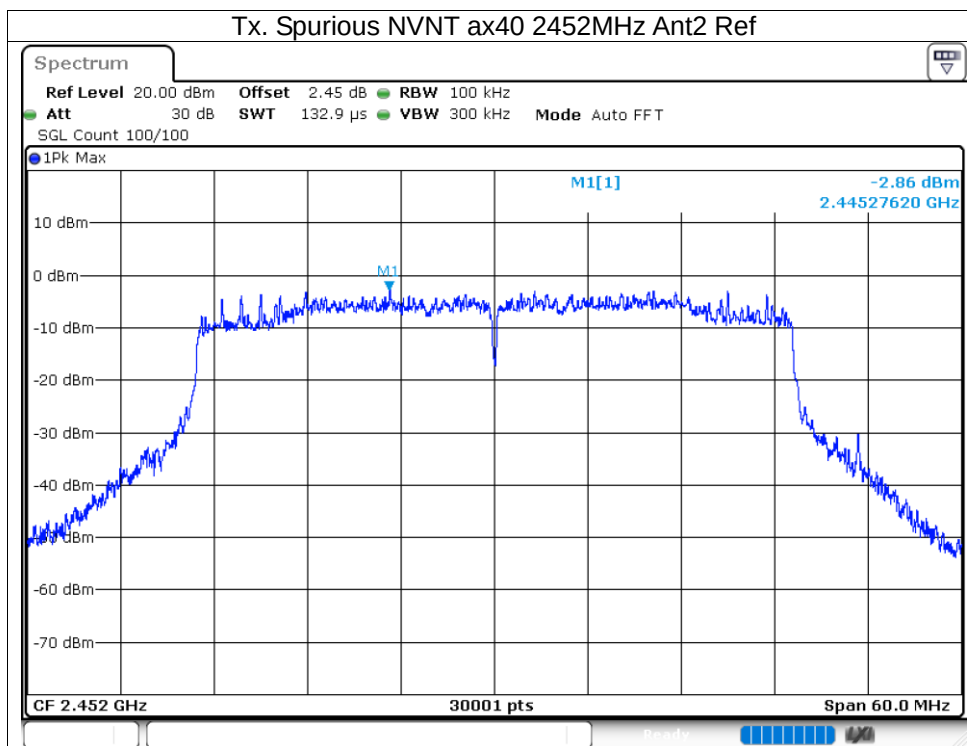
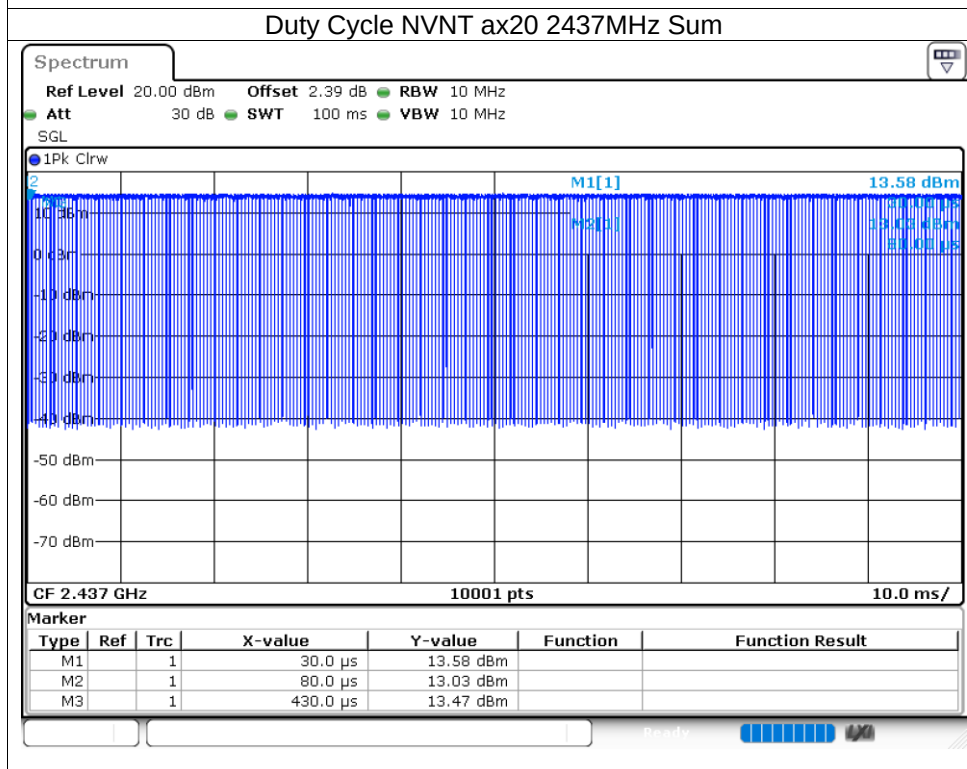
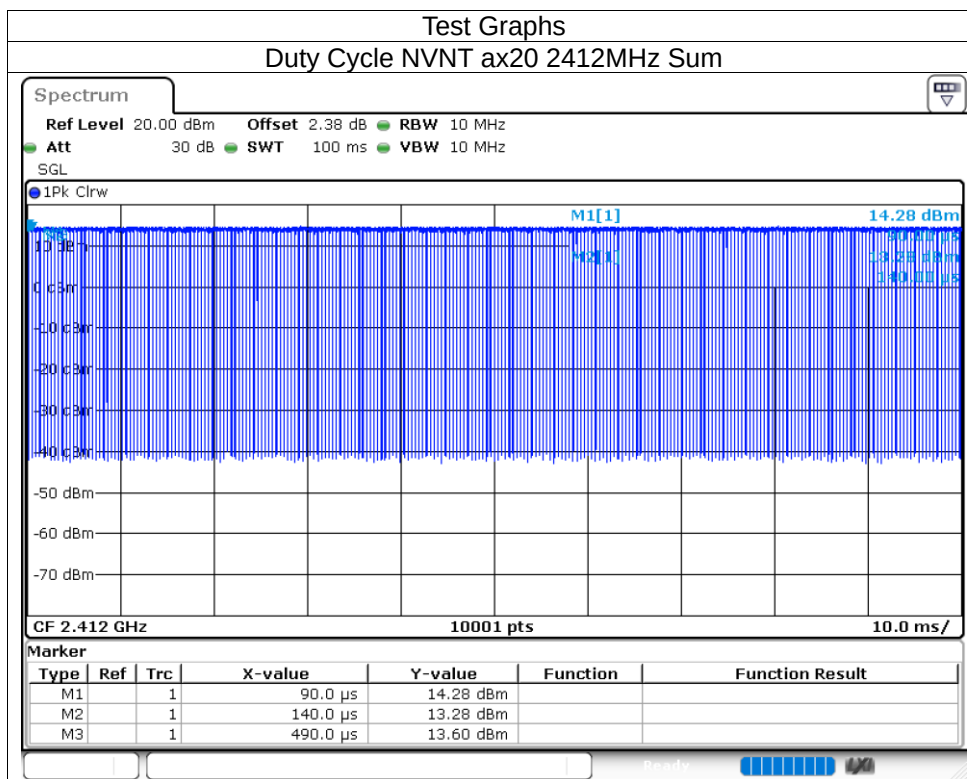


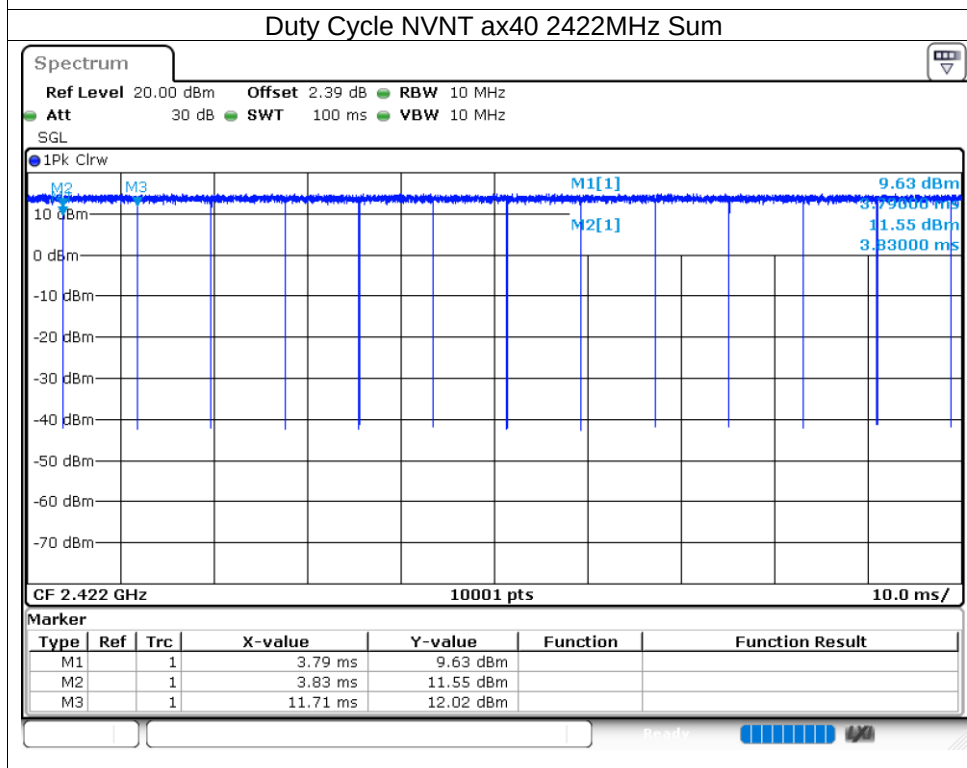
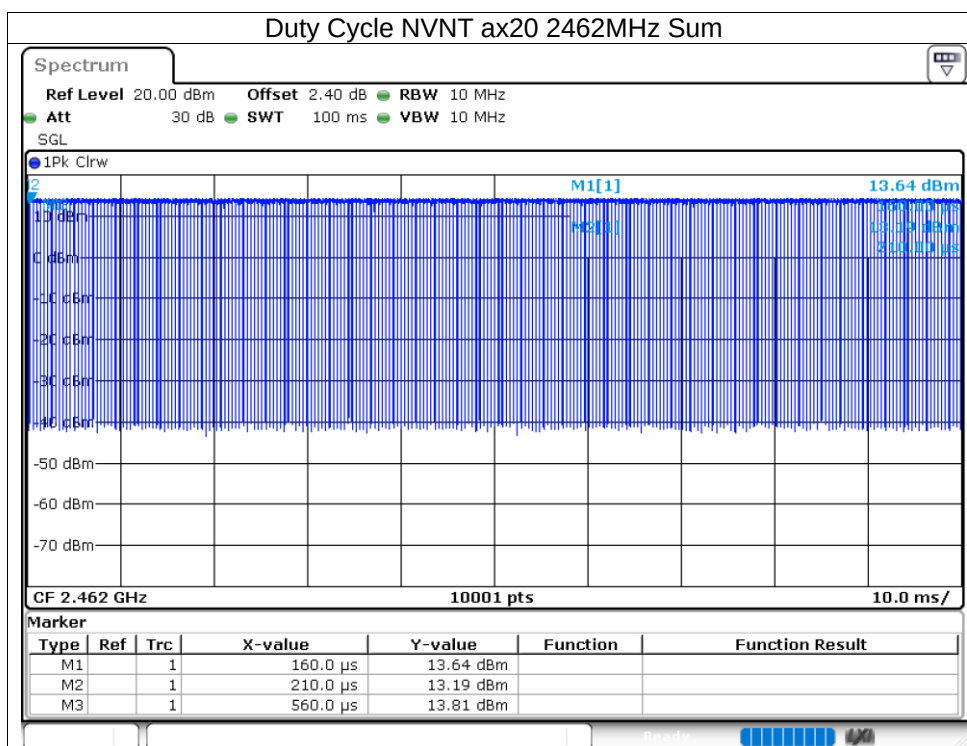


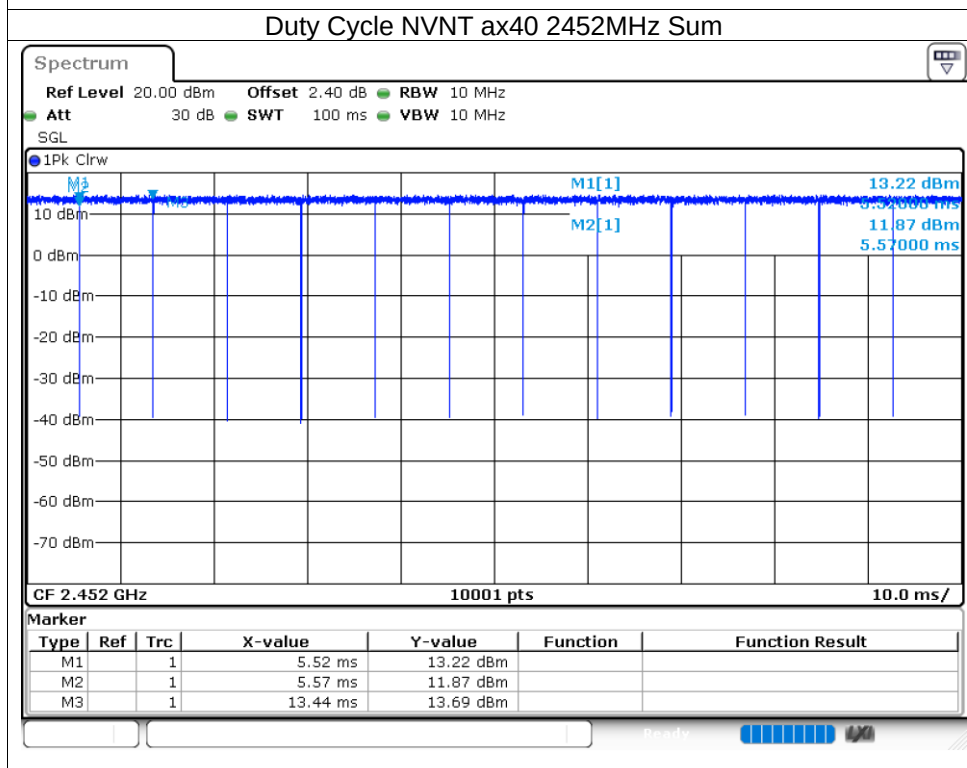
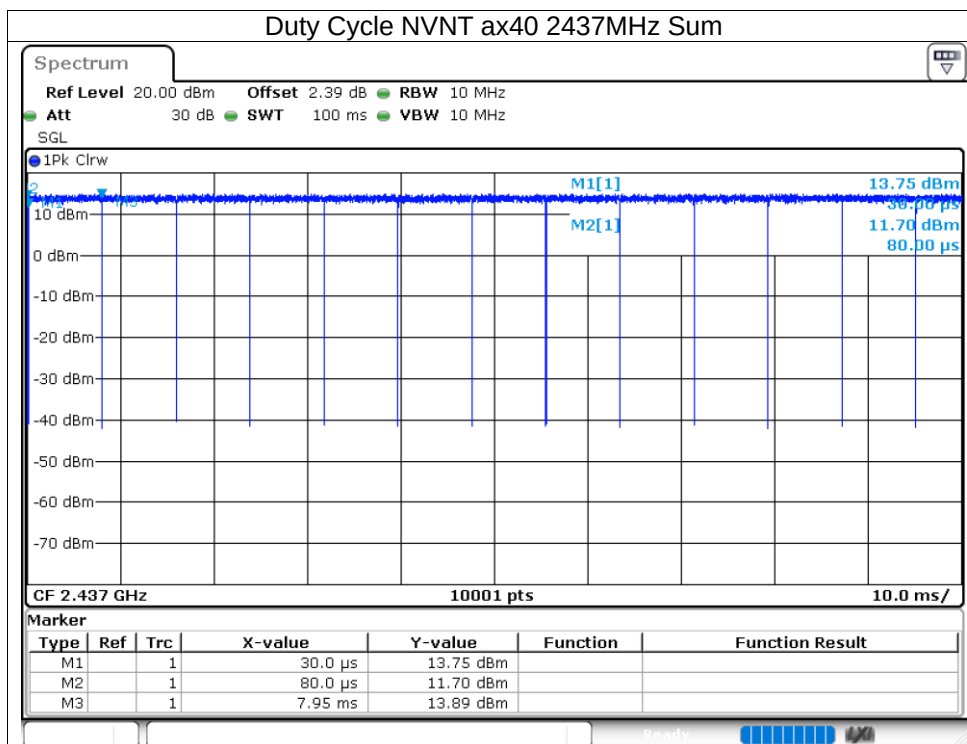
## 8.2 2.4G WIFI MIMO

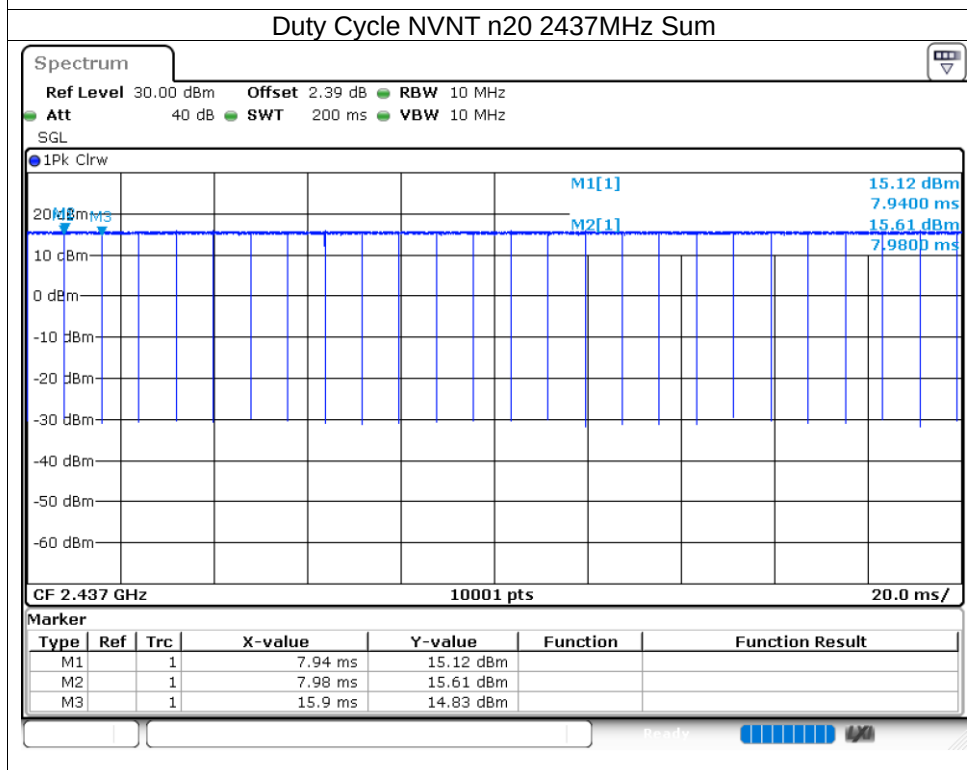
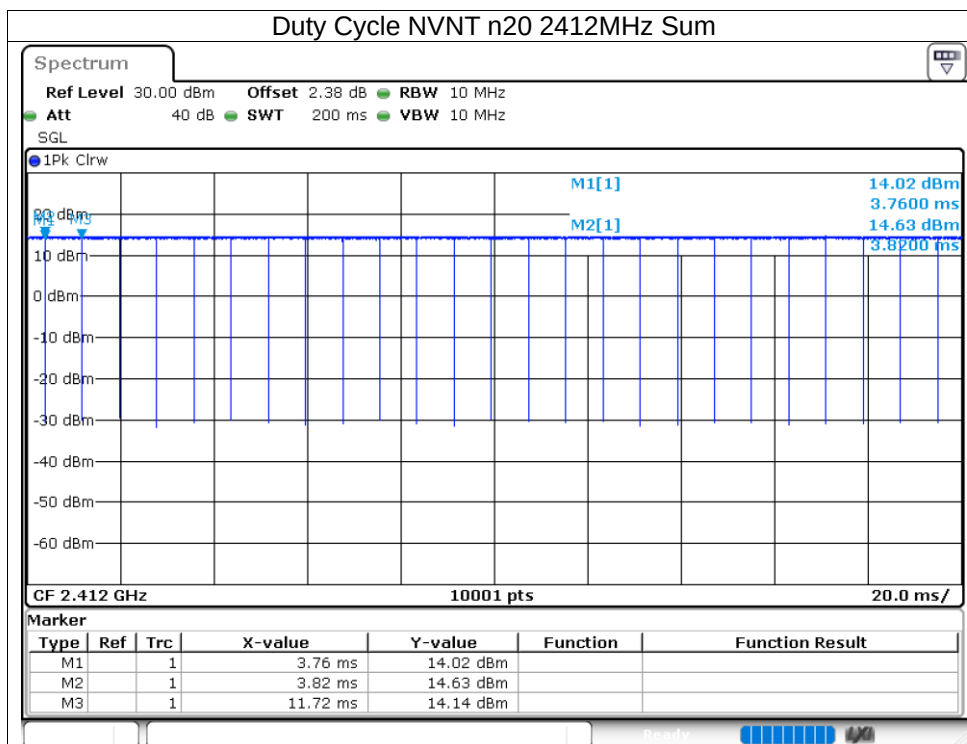
### 8.2.1 Duty Cycle

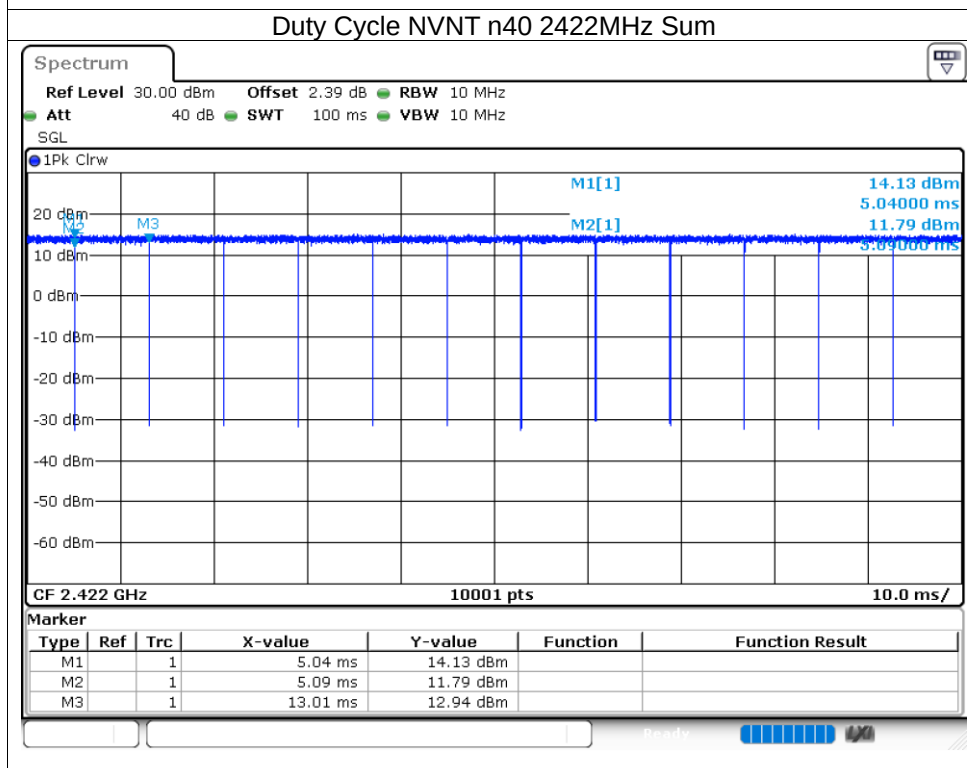
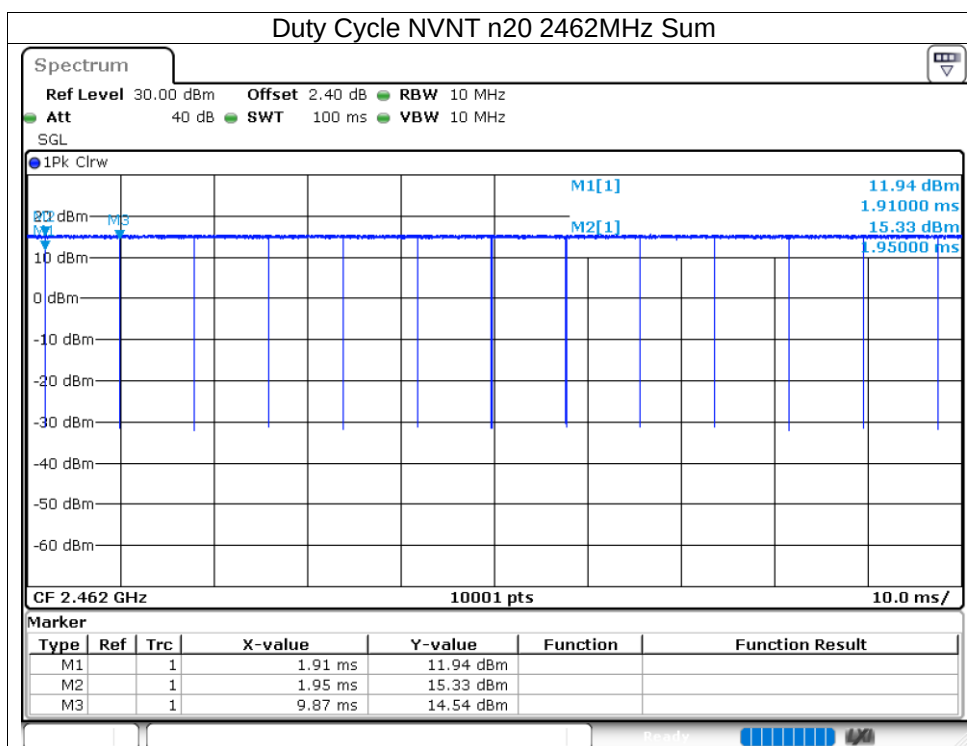
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | ax20 | 2412            | Sum     | 90.48          | 0.43                   | 2.86      |
| NVNT      | ax20 | 2437            | Sum     | 90.64          | 0.43                   | 2.86      |
| NVNT      | ax20 | 2462            | Sum     | 90.54          | 0.43                   | 2.86      |
| NVNT      | ax40 | 2422            | Sum     | 99.5           | 0.02                   | 0.13      |
| NVNT      | ax40 | 2437            | Sum     | 99.5           | 0.02                   | 0.13      |
| NVNT      | ax40 | 2452            | Sum     | 99.54          | 0.02                   | 0.13      |
| NVNT      | n20  | 2412            | Sum     | 99.61          | 0.02                   | 0.13      |
| NVNT      | n20  | 2437            | Sum     | 99.66          | 0.01                   | 0.13      |
| NVNT      | n20  | 2462            | Sum     | 99.5           | 0.02                   | 0.13      |
| NVNT      | n40  | 2422            | Sum     | 99.52          | 0.02                   | 0.13      |
| NVNT      | n40  | 2437            | Sum     | 99.52          | 0.02                   | 0.13      |
| NVNT      | n40  | 2452            | Sum     | 99.5           | 0.02                   | 0.13      |

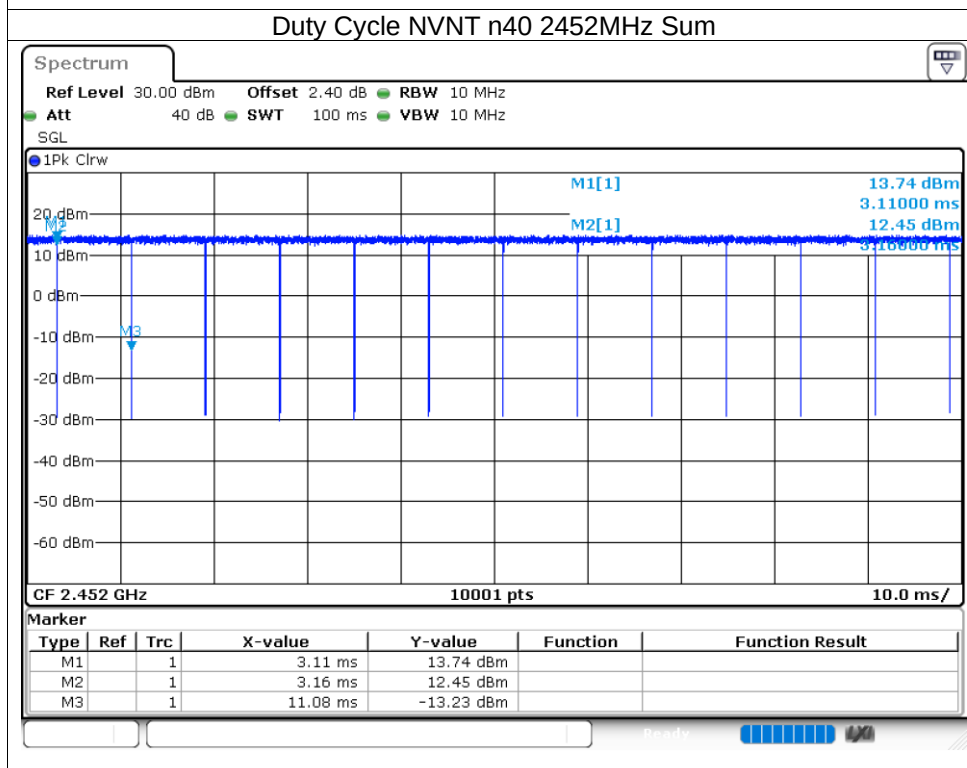
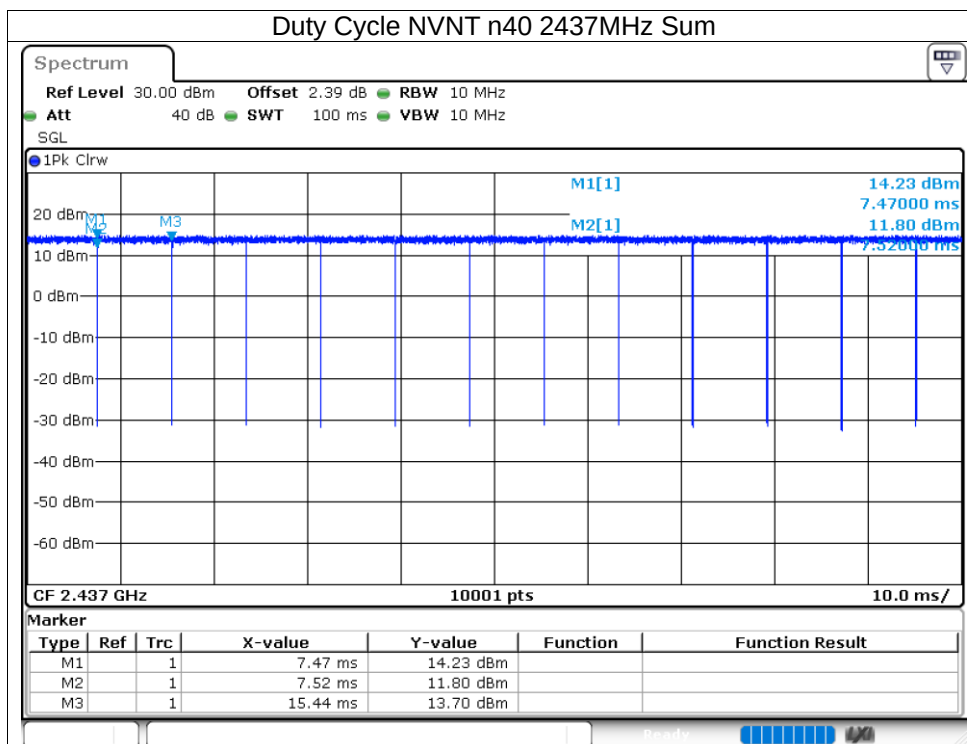










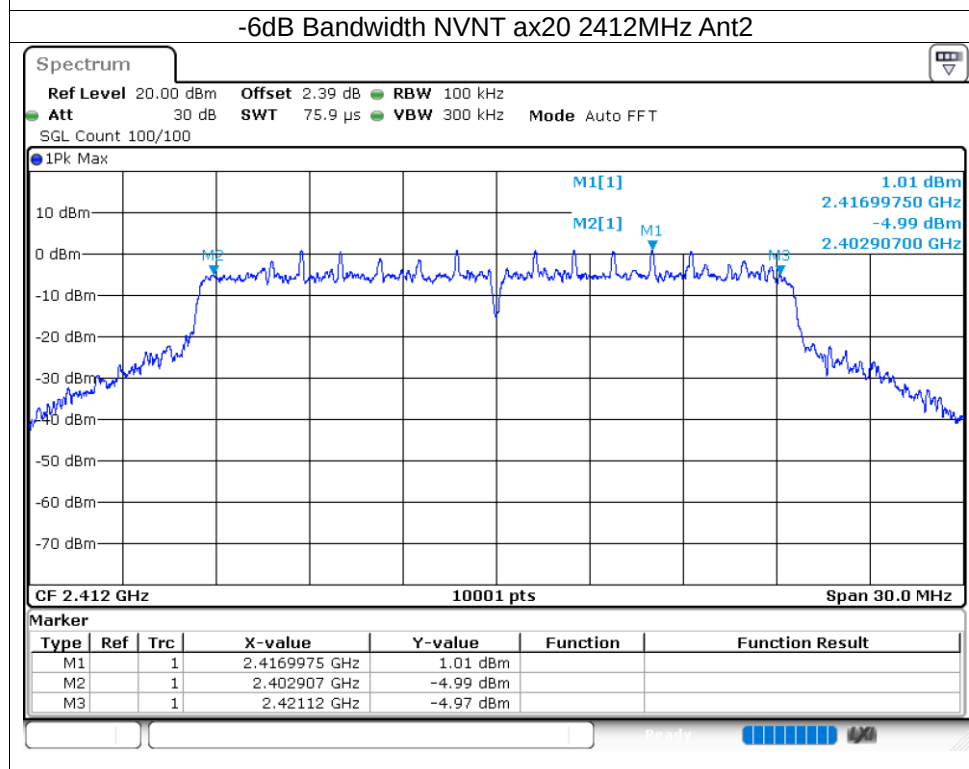
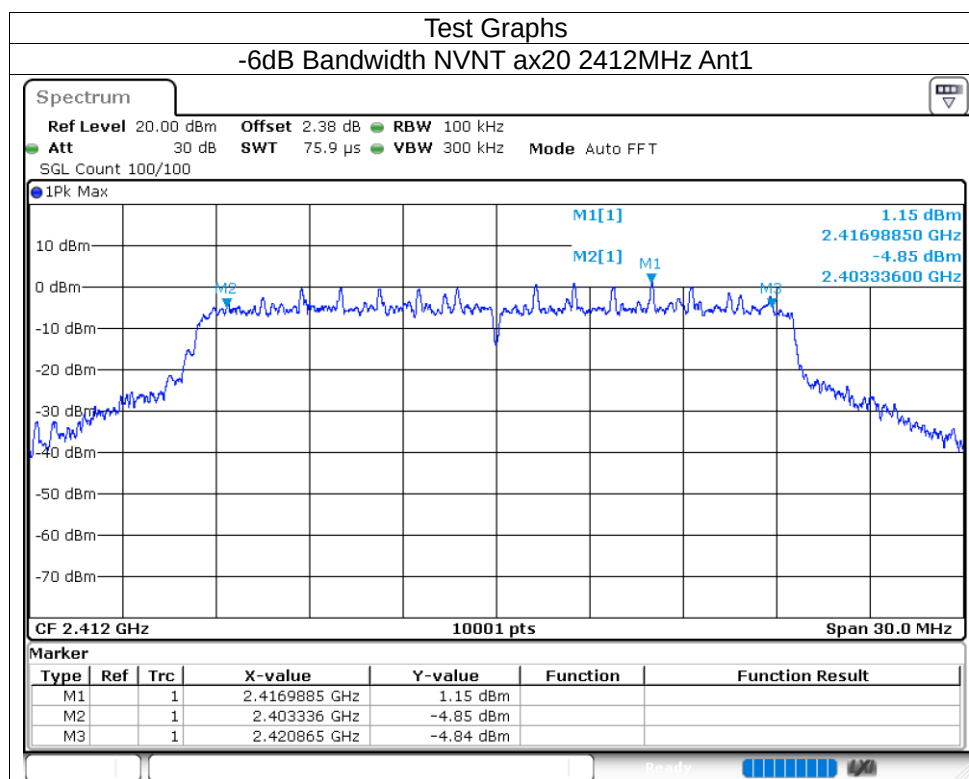


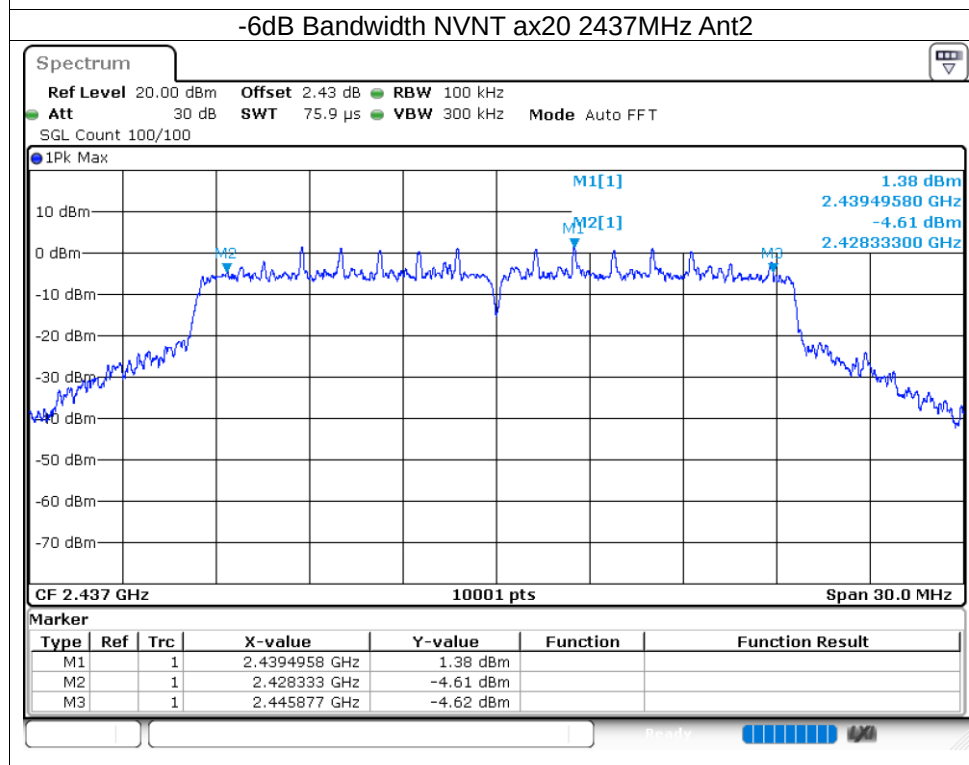
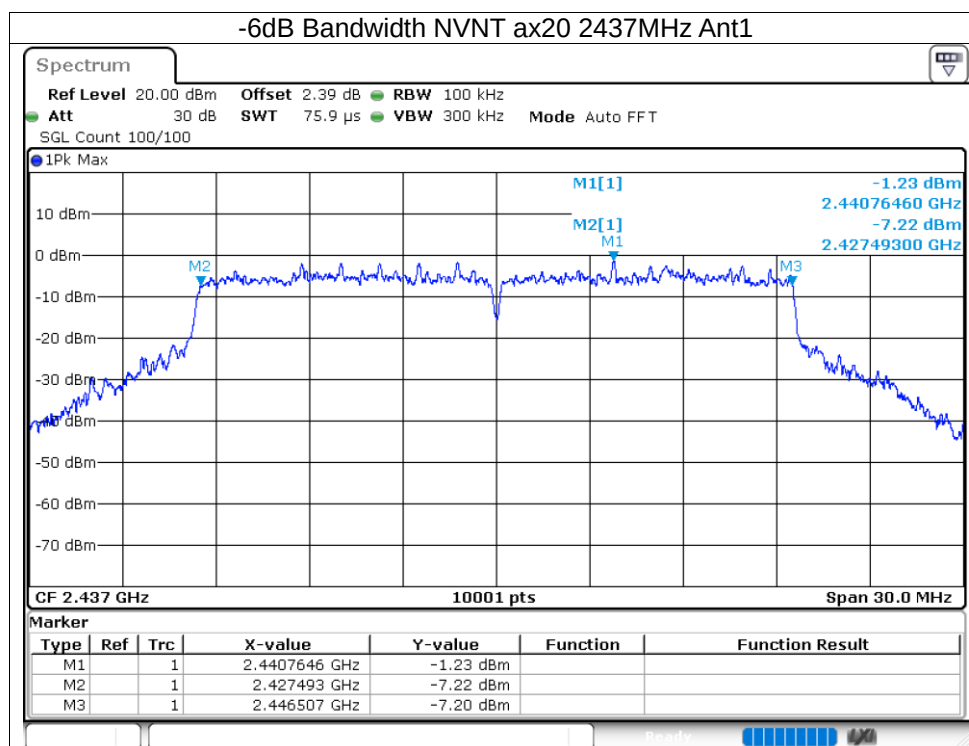
## 8.2.2 Maximum Average Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | ax20 | 2412            | Ant1    | 11.96                 | 30          | Pass    |
| NVNT      | ax20 | 2412            | Ant2    | 13.33                 | 30          | Pass    |
| NVNT      | ax20 | 2412            | Sum     | 15.71                 | 30          | Pass    |
| NVNT      | ax20 | 2437            | Ant1    | 12.12                 | 30          | Pass    |
| NVNT      | ax20 | 2437            | Ant2    | 13.6                  | 30          | Pass    |
| NVNT      | ax20 | 2437            | Sum     | 15.93                 | 30          | Pass    |
| NVNT      | ax20 | 2462            | Ant1    | 11.8                  | 30          | Pass    |
| NVNT      | ax20 | 2462            | Ant2    | 13.3                  | 30          | Pass    |
| NVNT      | ax20 | 2462            | Sum     | 15.62                 | 30          | Pass    |
| NVNT      | ax40 | 2422            | Ant1    | 12.6                  | 30          | Pass    |
| NVNT      | ax40 | 2422            | Ant2    | 13.92                 | 30          | Pass    |
| NVNT      | ax40 | 2422            | Sum     | 16.32                 | 30          | Pass    |
| NVNT      | ax40 | 2437            | Ant1    | 12.84                 | 30          | Pass    |
| NVNT      | ax40 | 2437            | Ant2    | 14.03                 | 30          | Pass    |
| NVNT      | ax40 | 2437            | Sum     | 16.49                 | 30          | Pass    |
| NVNT      | ax40 | 2452            | Ant1    | 12.74                 | 30          | Pass    |
| NVNT      | ax40 | 2452            | Ant2    | 14.05                 | 30          | Pass    |
| NVNT      | ax40 | 2452            | Sum     | 16.45                 | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 11.79                 | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant2    | 13.13                 | 30          | Pass    |
| NVNT      | n20  | 2412            | Sum     | 15.52                 | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 12.72                 | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant2    | 14.37                 | 30          | Pass    |
| NVNT      | n20  | 2437            | Sum     | 16.63                 | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 12.35                 | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant2    | 14.07                 | 30          | Pass    |
| NVNT      | n20  | 2462            | Sum     | 16.3                  | 30          | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 12.84                 | 30          | Pass    |
| NVNT      | n40  | 2422            | Ant2    | 14.2                  | 30          | Pass    |
| NVNT      | n40  | 2422            | Sum     | 16.58                 | 30          | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 12.78                 | 30          | Pass    |
| NVNT      | n40  | 2437            | Ant2    | 14.22                 | 30          | Pass    |
| NVNT      | n40  | 2437            | Sum     | 16.57                 | 30          | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 12.89                 | 30          | Pass    |
| NVNT      | n40  | 2452            | Ant2    | 14.26                 | 30          | Pass    |
| NVNT      | n40  | 2452            | Sum     | 16.64                 | 30          | Pass    |

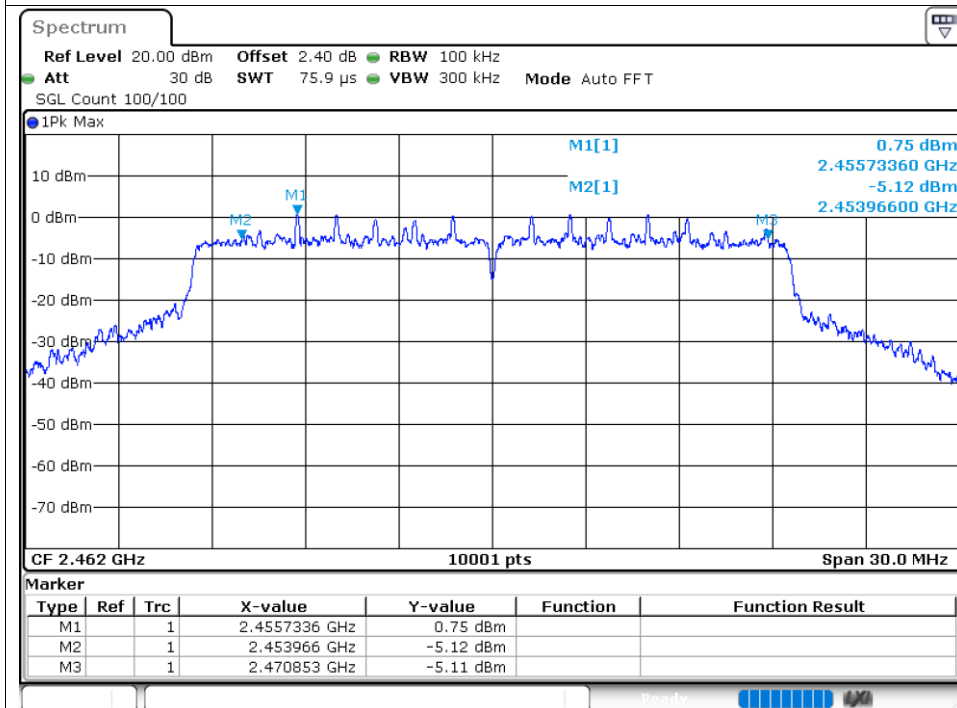
### 8.2.3 -6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | ax20 | 2412            | Ant1    | 17.529                | 0.5                         | Pass    |
| NVNT      | ax20 | 2412            | Ant2    | 18.213                | 0.5                         | Pass    |
| NVNT      | ax20 | 2437            | Ant1    | 19.014                | 0.5                         | Pass    |
| NVNT      | ax20 | 2437            | Ant2    | 17.544                | 0.5                         | Pass    |
| NVNT      | ax20 | 2462            | Ant1    | 16.887                | 0.5                         | Pass    |
| NVNT      | ax20 | 2462            | Ant2    | 18.048                | 0.5                         | Pass    |
| NVNT      | ax40 | 2422            | Ant1    | 33.54                 | 0.5                         | Pass    |
| NVNT      | ax40 | 2422            | Ant2    | 37.704                | 0.5                         | Pass    |
| NVNT      | ax40 | 2437            | Ant1    | 36.396                | 0.5                         | Pass    |
| NVNT      | ax40 | 2437            | Ant2    | 36.612                | 0.5                         | Pass    |
| NVNT      | ax40 | 2452            | Ant1    | 32.268                | 0.5                         | Pass    |
| NVNT      | ax40 | 2452            | Ant2    | 31.734                | 0.5                         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 11.7                  | 0.5                         | Pass    |
| NVNT      | n20  | 2412            | Ant2    | 17.55                 | 0.5                         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 17.577                | 0.5                         | Pass    |
| NVNT      | n20  | 2437            | Ant2    | 17.592                | 0.5                         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 17.595                | 0.5                         | Pass    |
| NVNT      | n20  | 2462            | Ant2    | 17.586                | 0.5                         | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 36.27                 | 0.5                         | Pass    |
| NVNT      | n40  | 2422            | Ant2    | 36.318                | 0.5                         | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 25.344                | 0.5                         | Pass    |
| NVNT      | n40  | 2437            | Ant2    | 36.294                | 0.5                         | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 30.432                | 0.5                         | Pass    |
| NVNT      | n40  | 2452            | Ant2    | 36.318                | 0.5                         | Pass    |

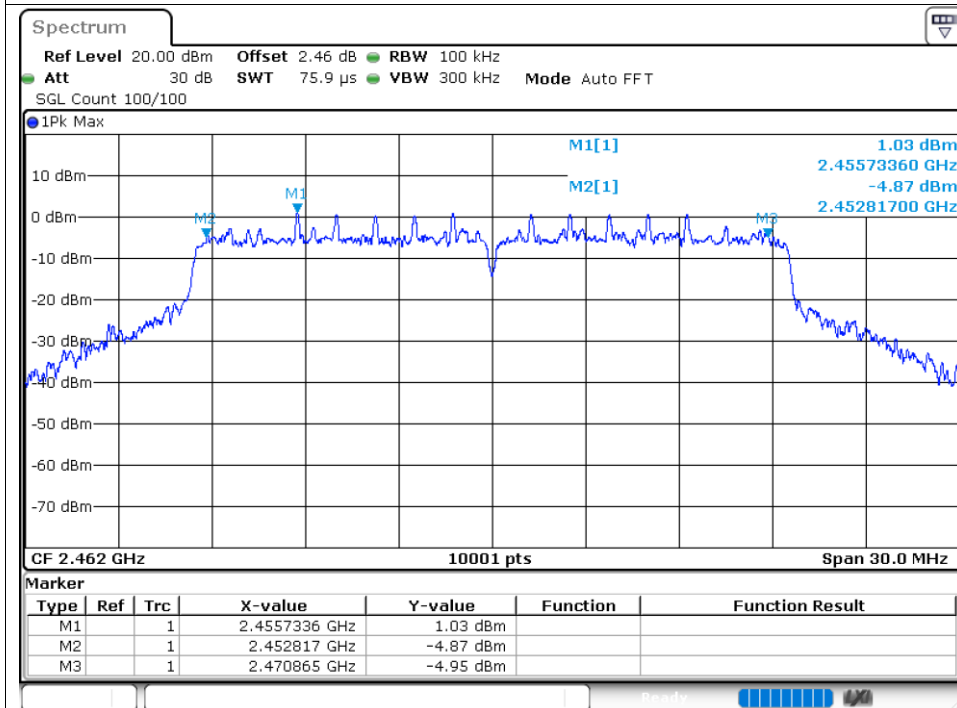




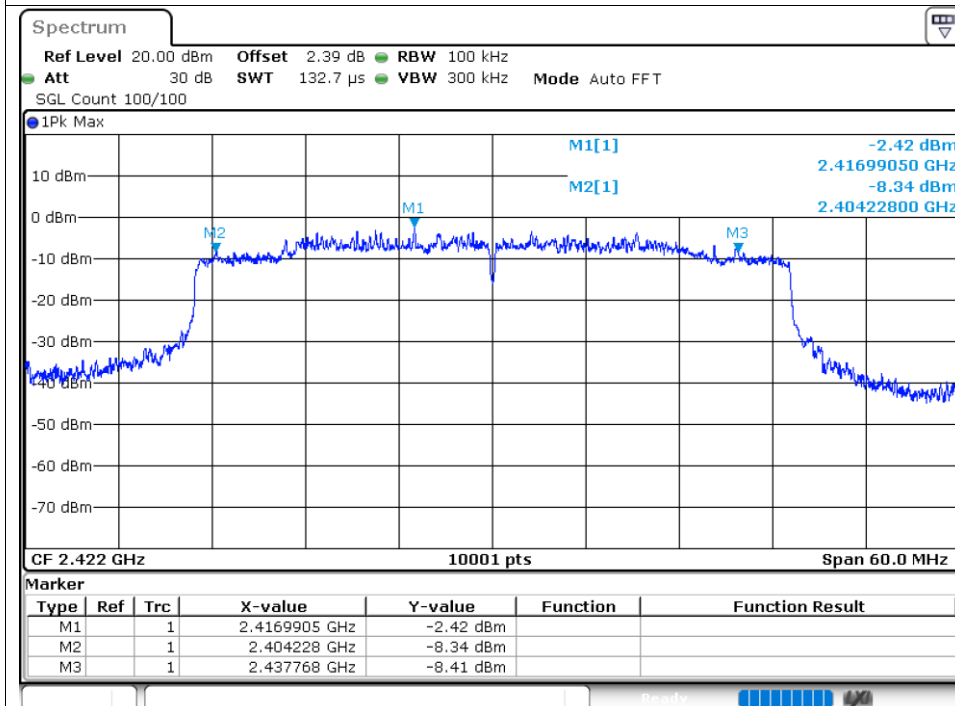
### -6dB Bandwidth NVNT ax20 2462MHz Ant1



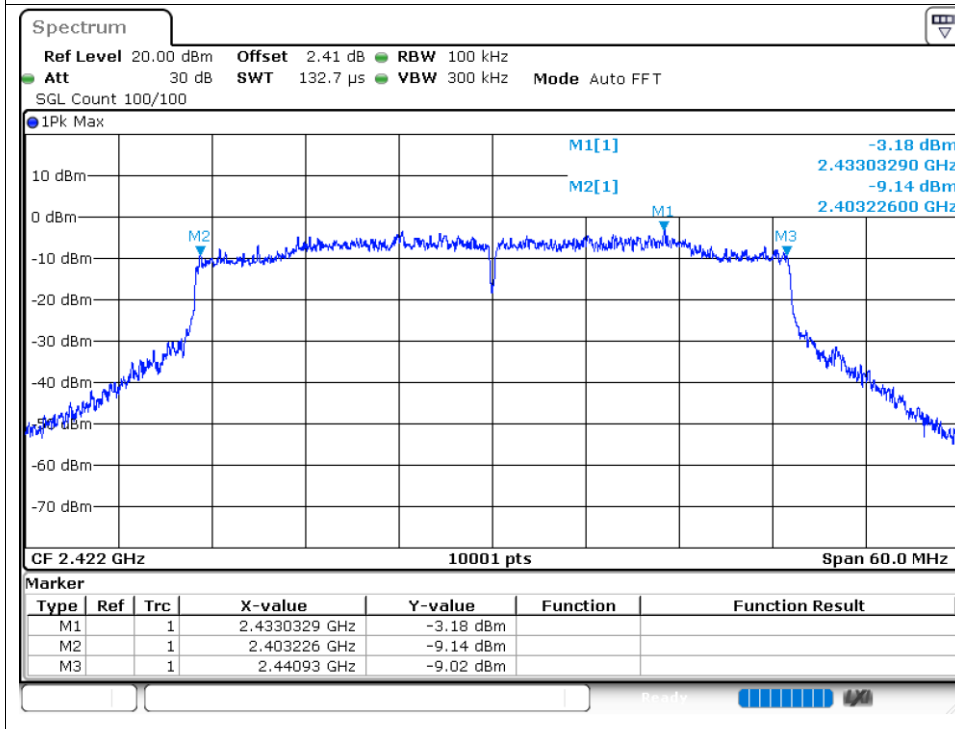
### -6dB Bandwidth NVNT ax20 2462MHz Ant2

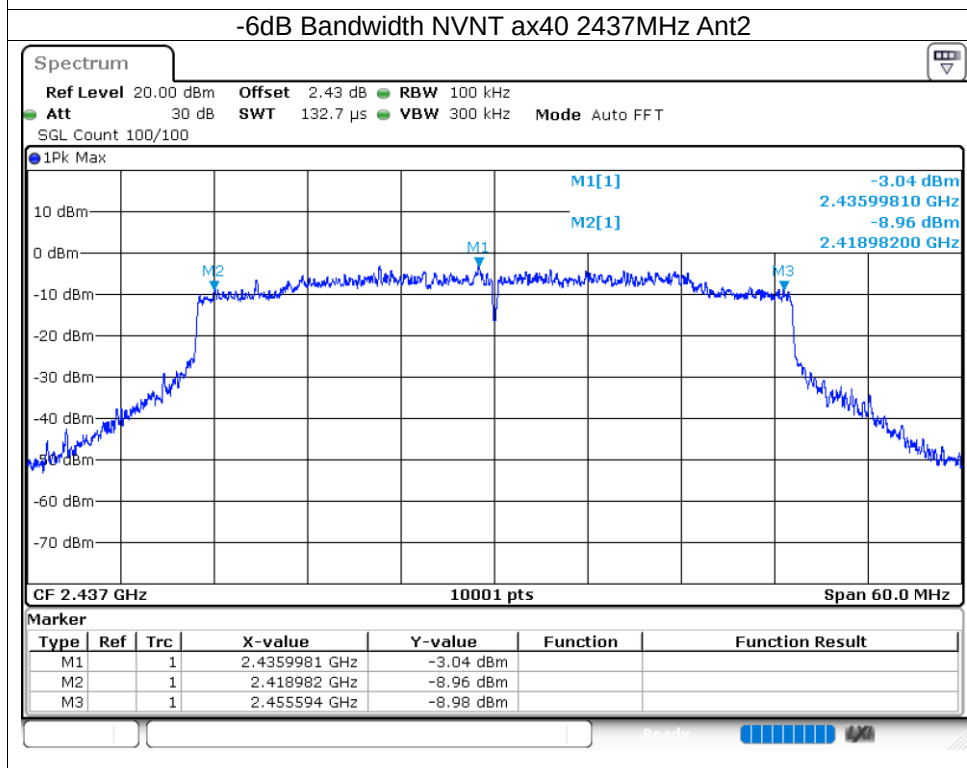
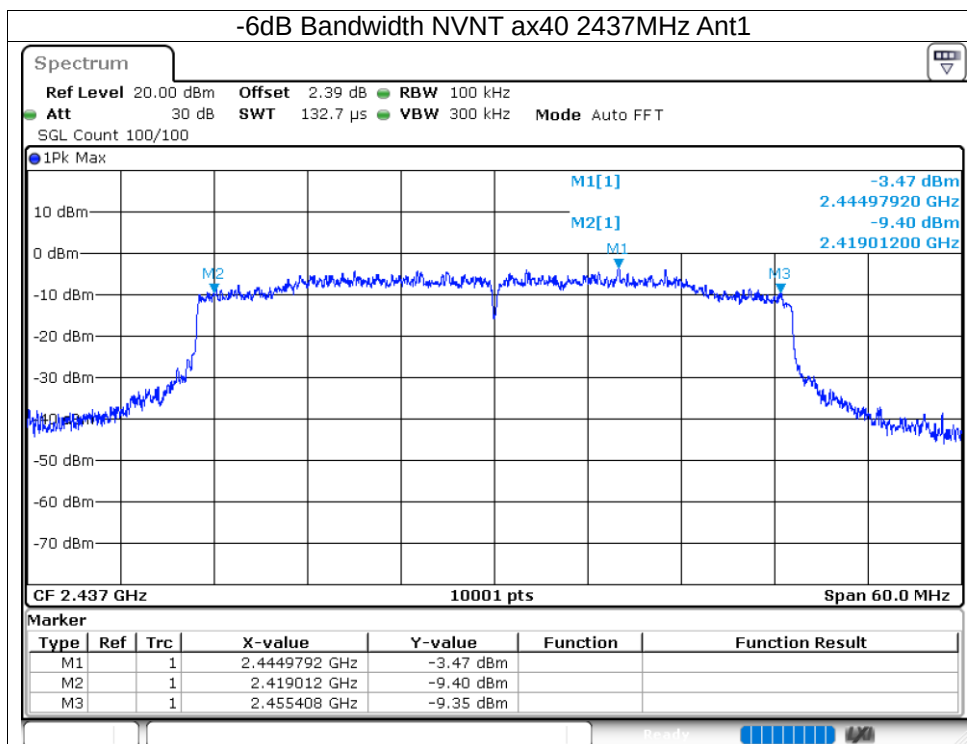


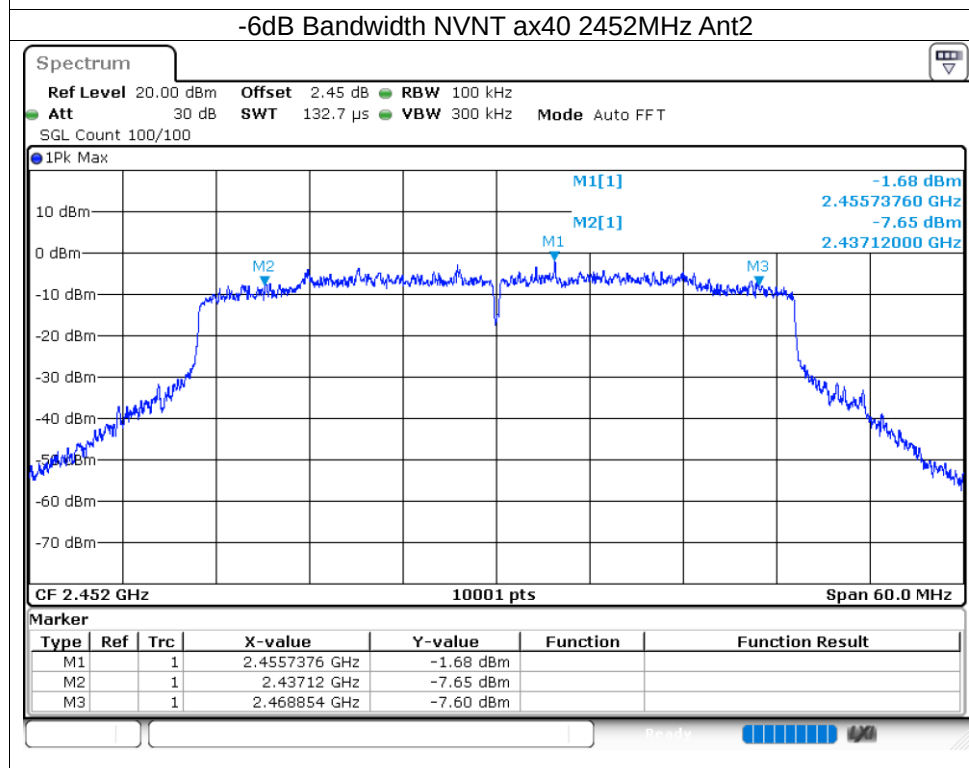
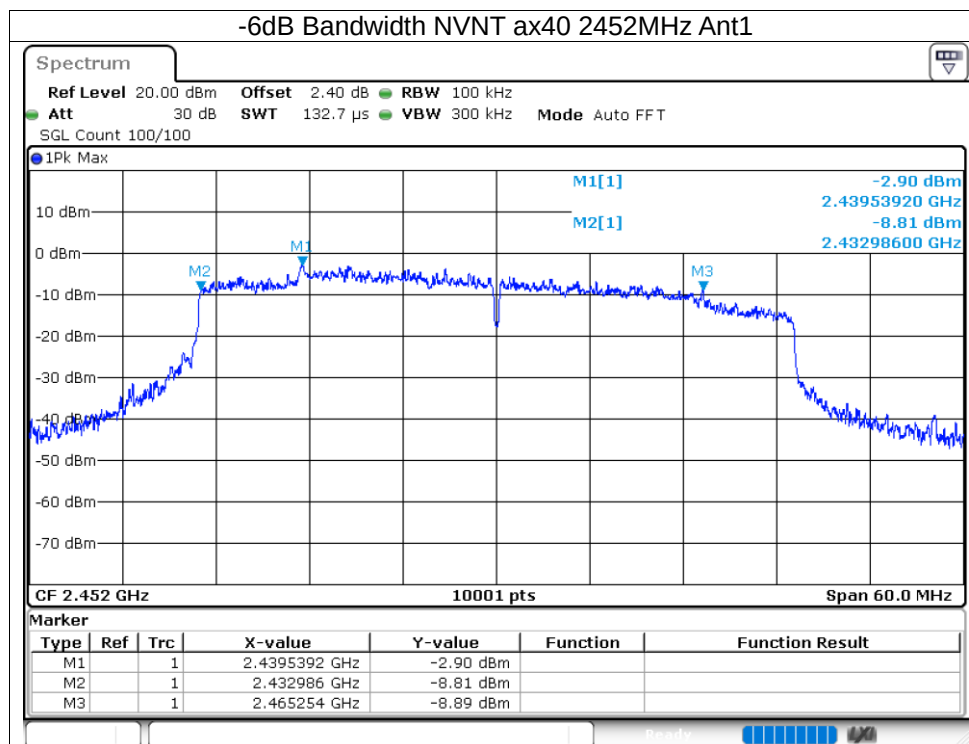
### -6dB Bandwidth NVNT ax40 2422MHz Ant1

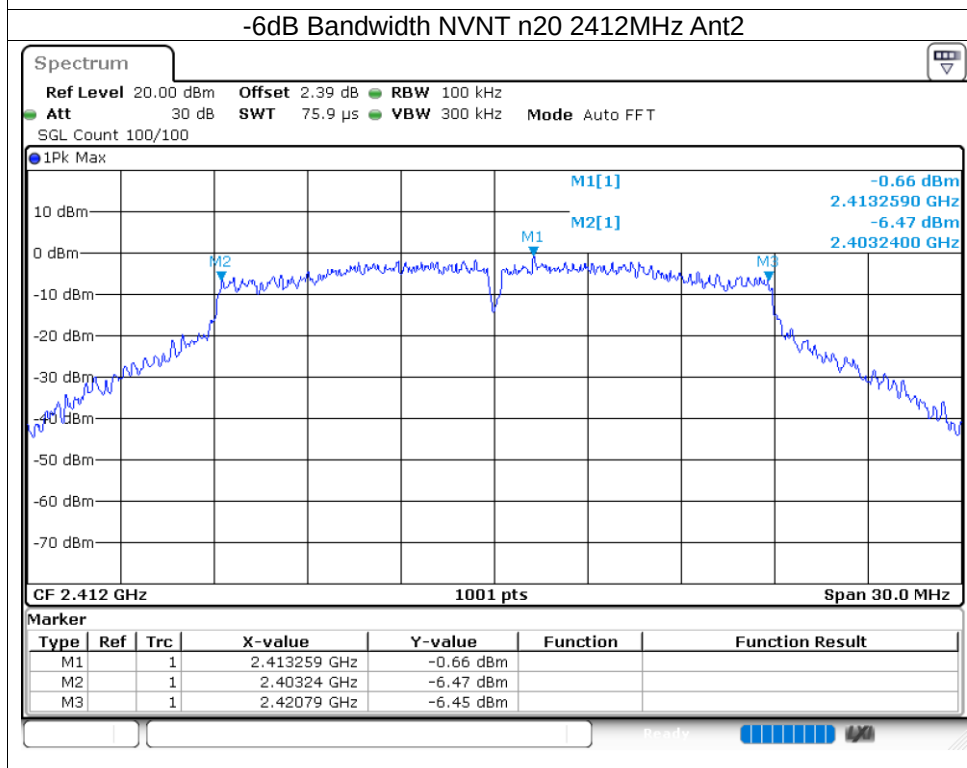
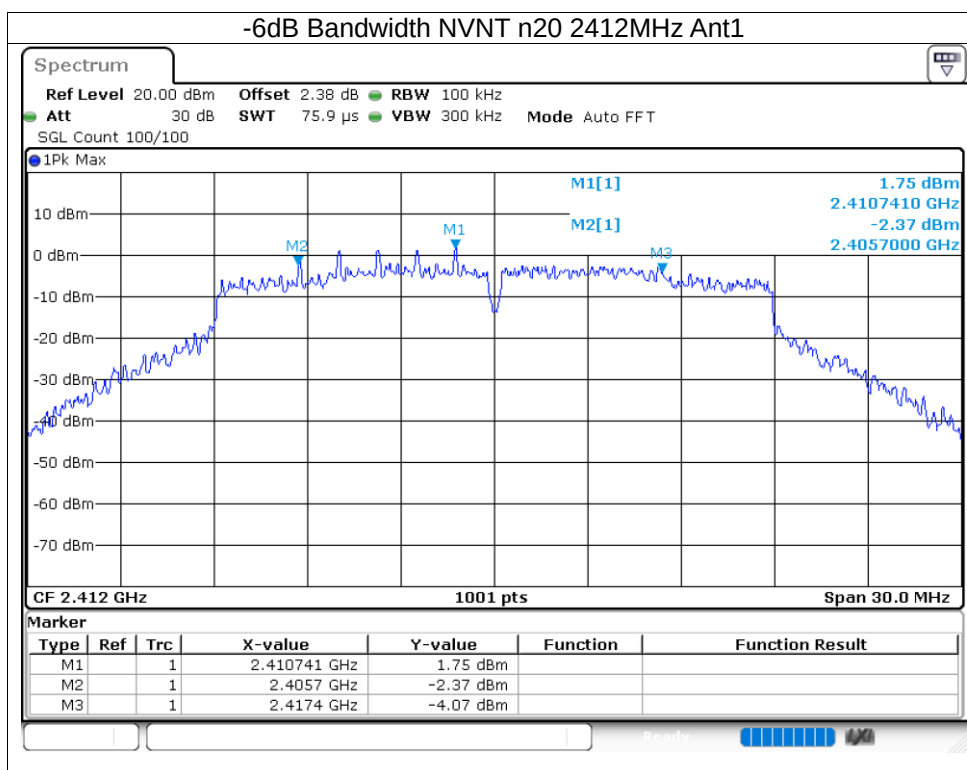


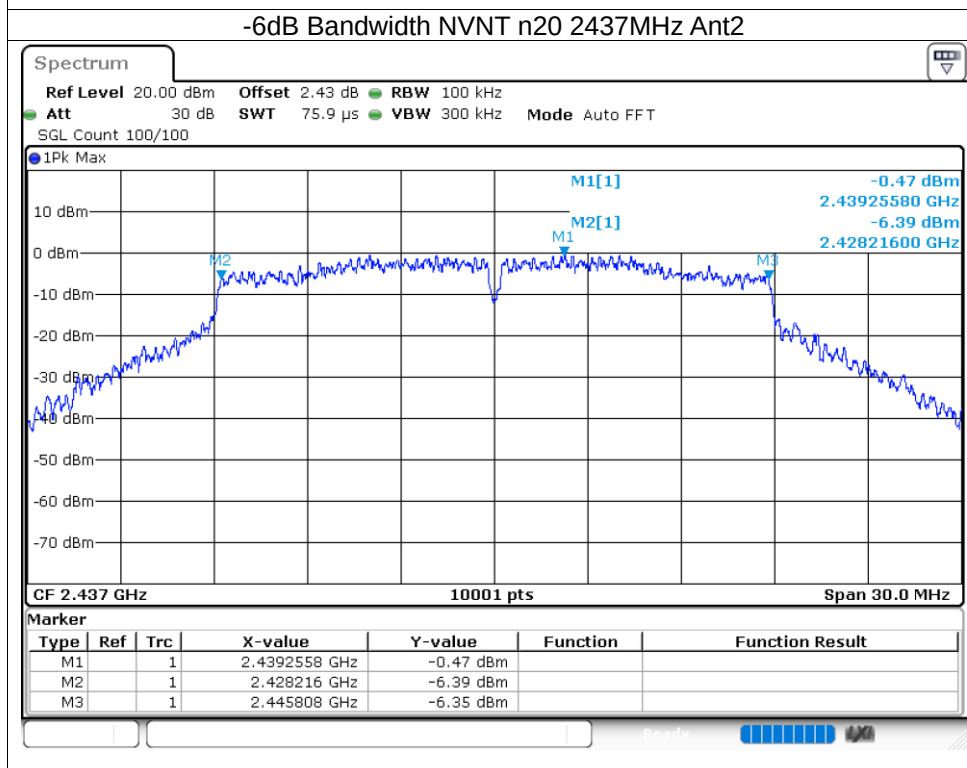
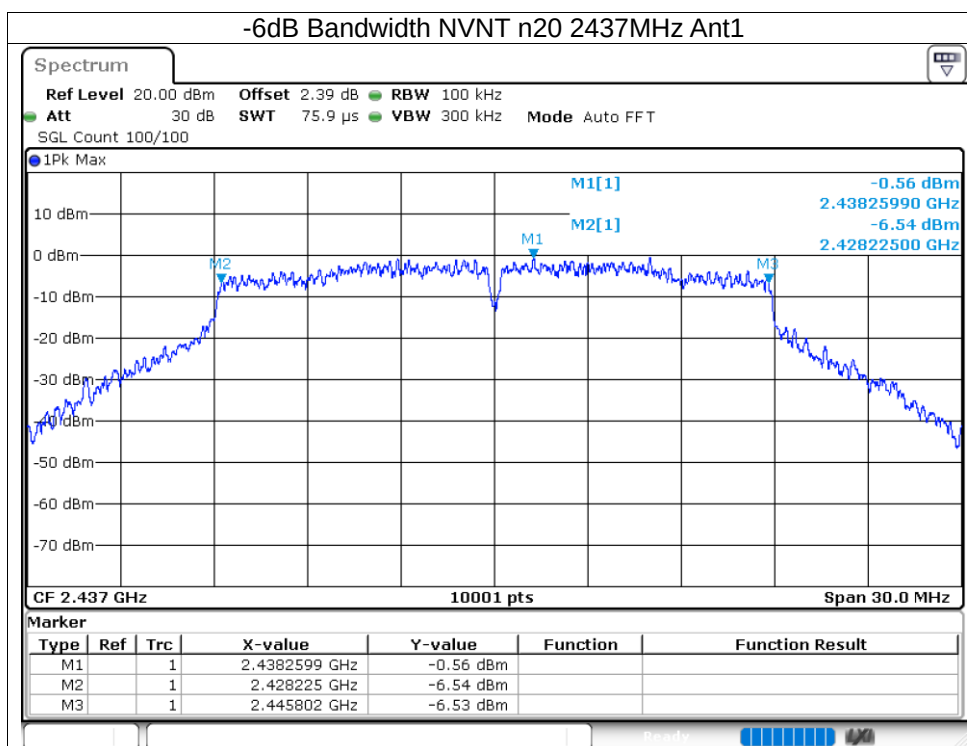
### -6dB Bandwidth NVNT ax40 2422MHz Ant2

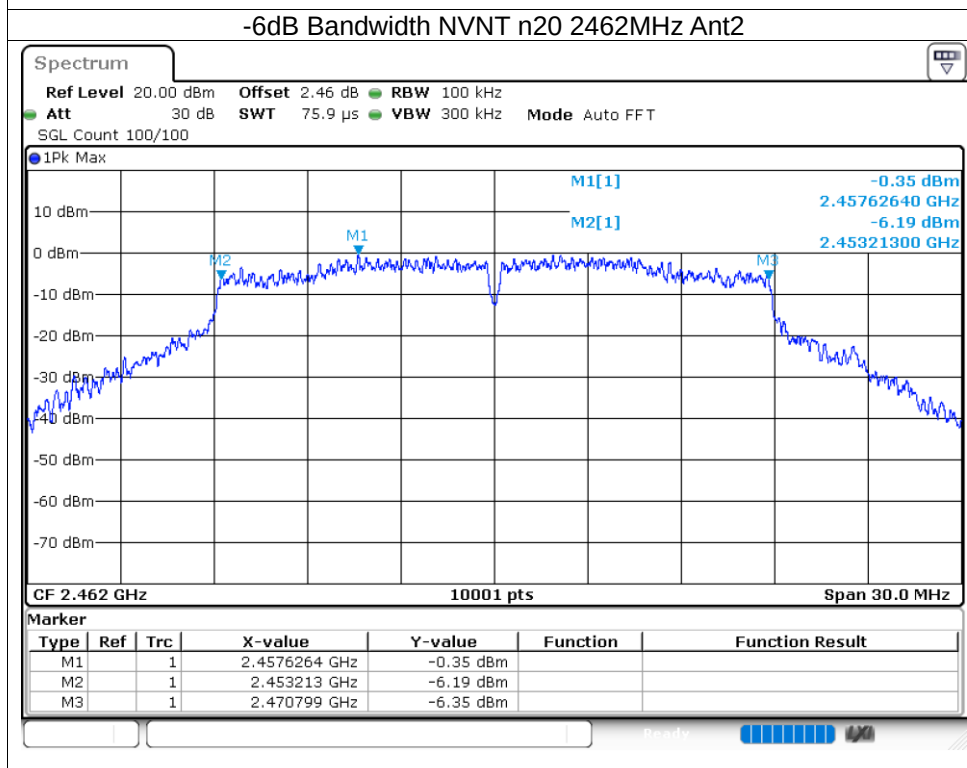
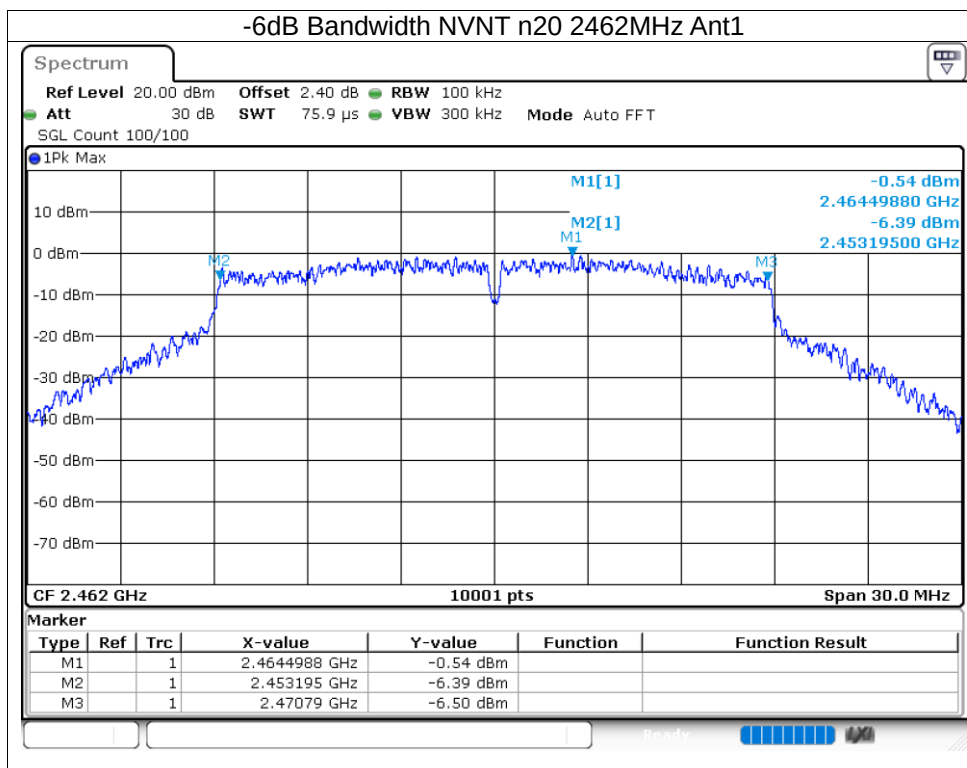


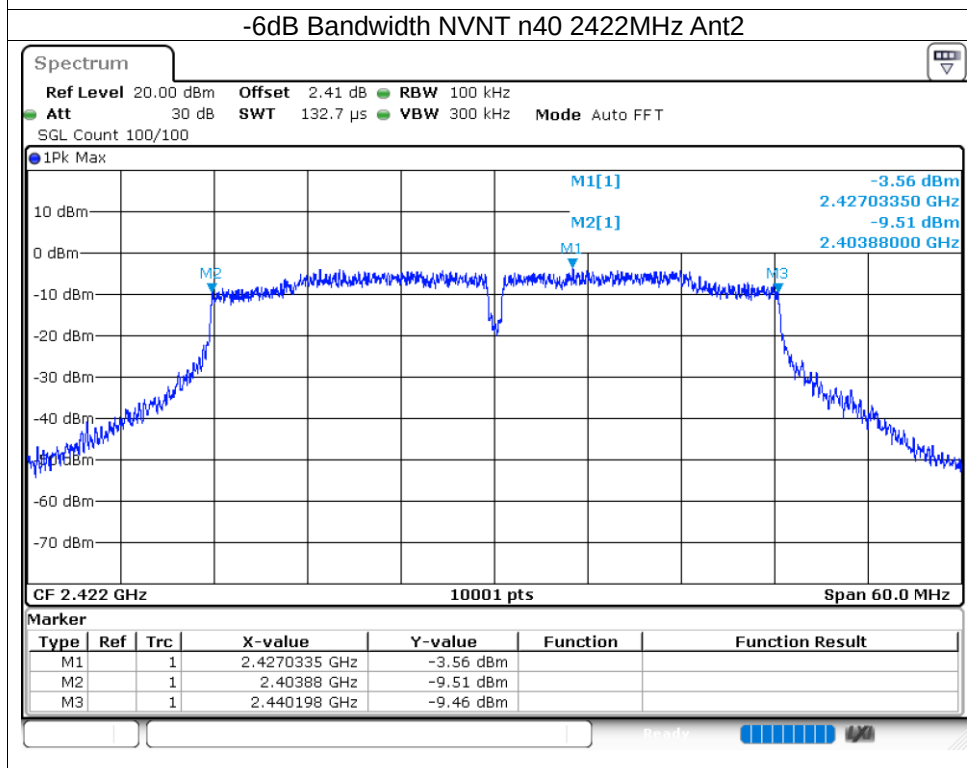
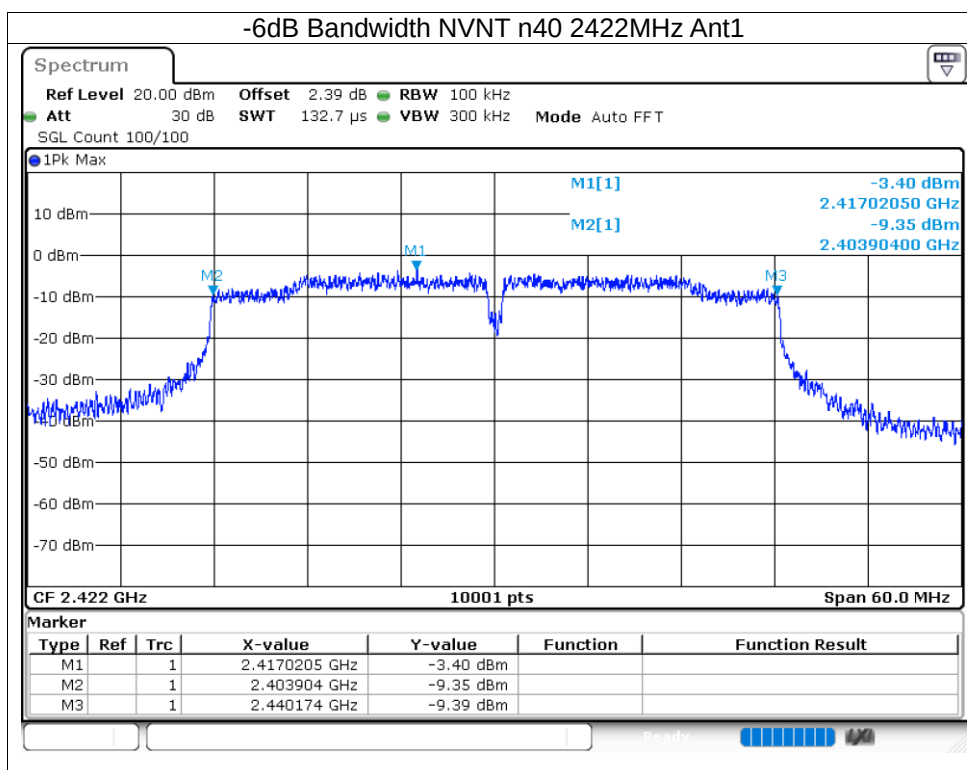


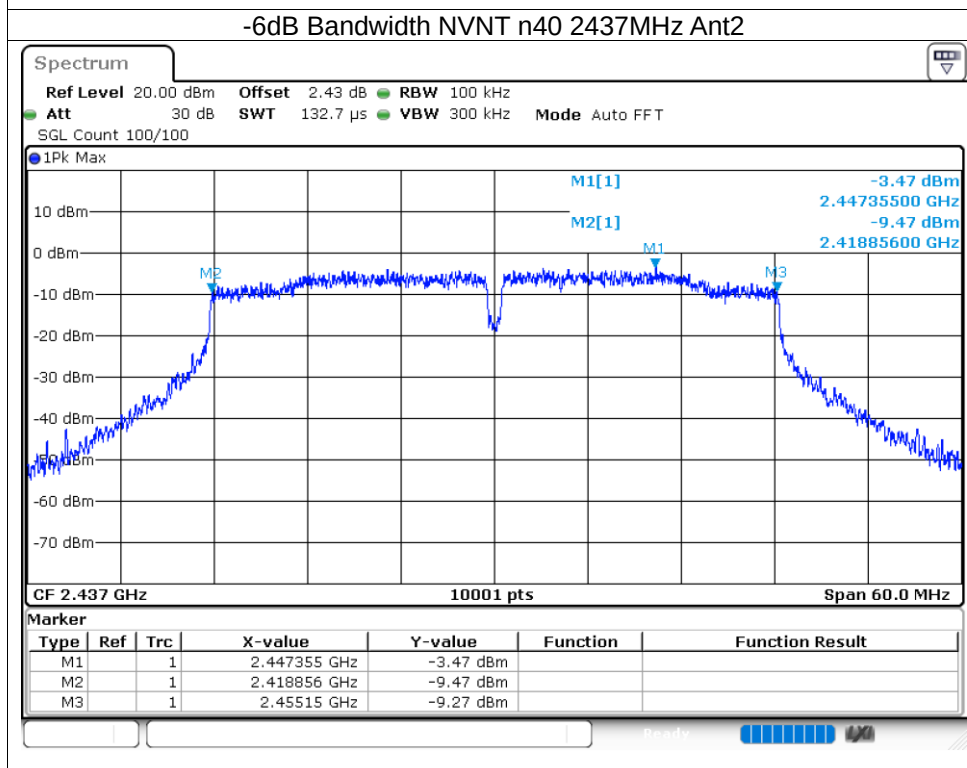
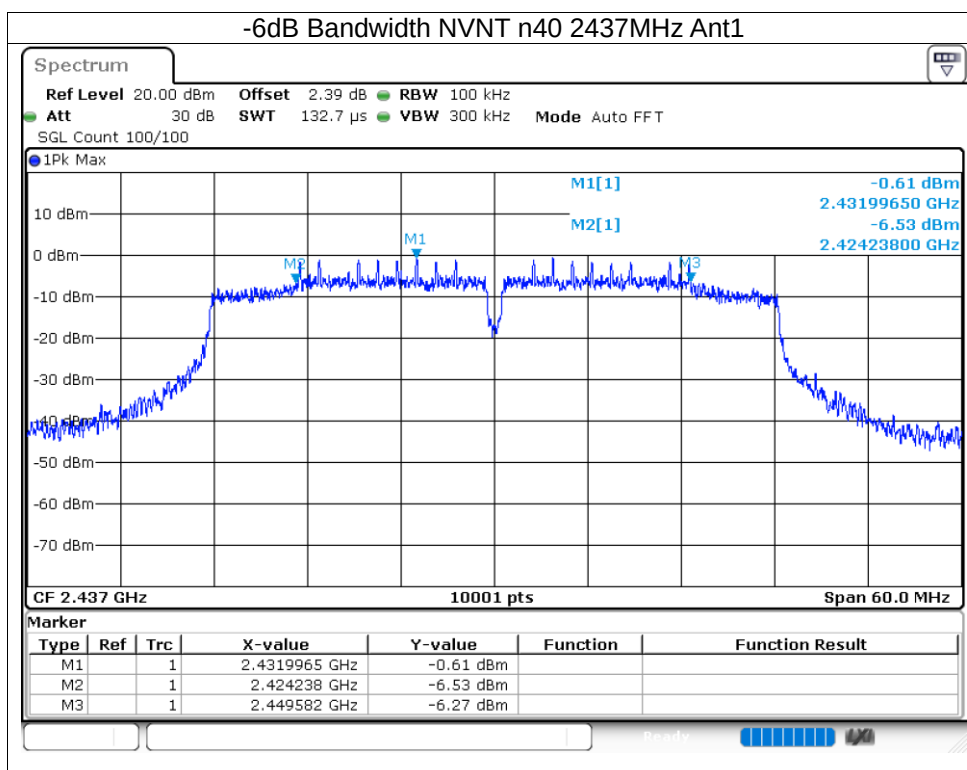


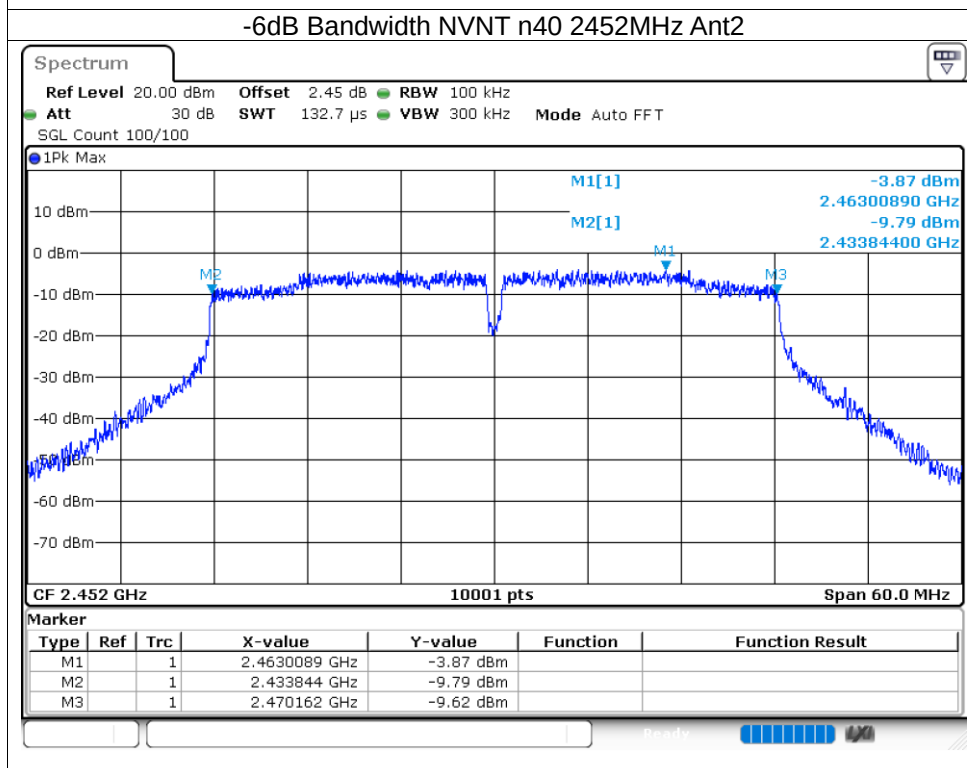
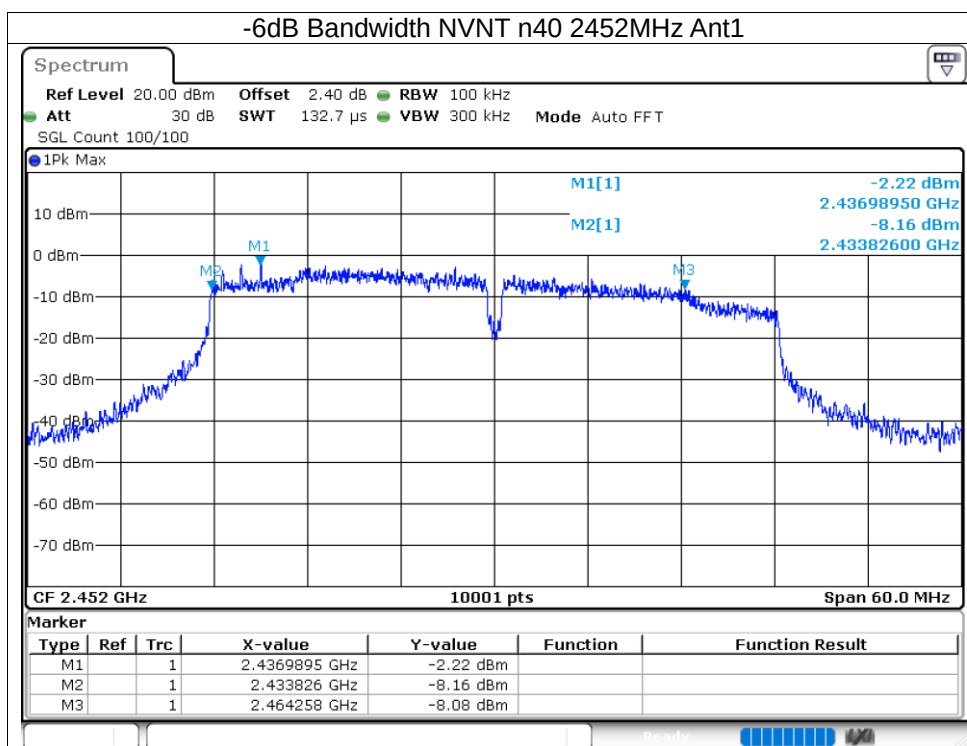






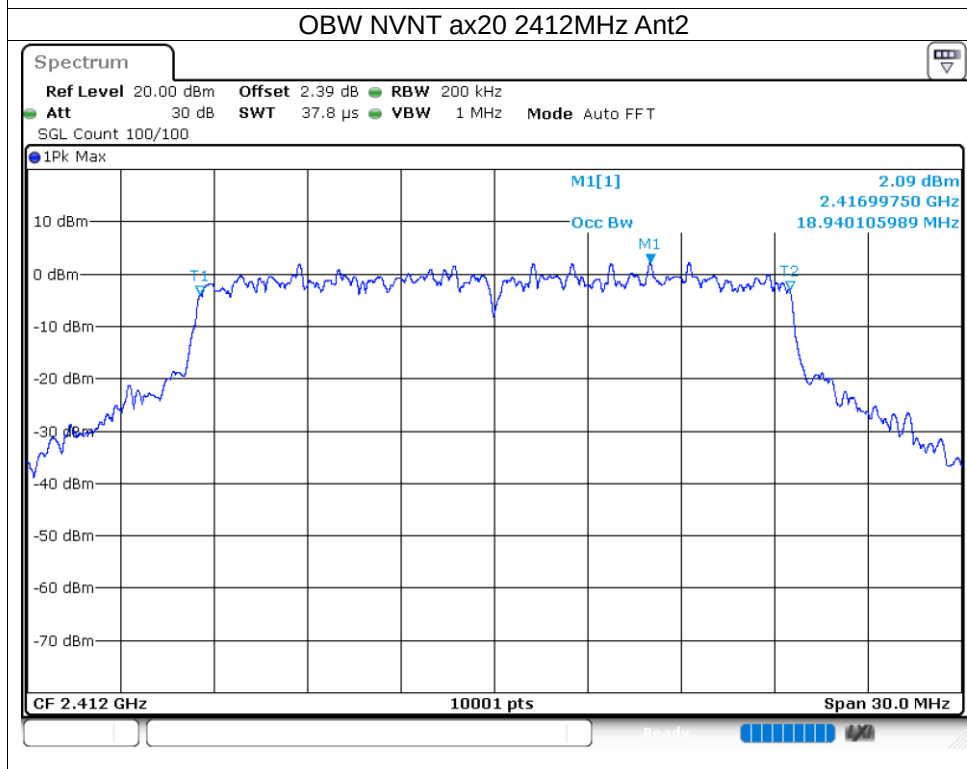
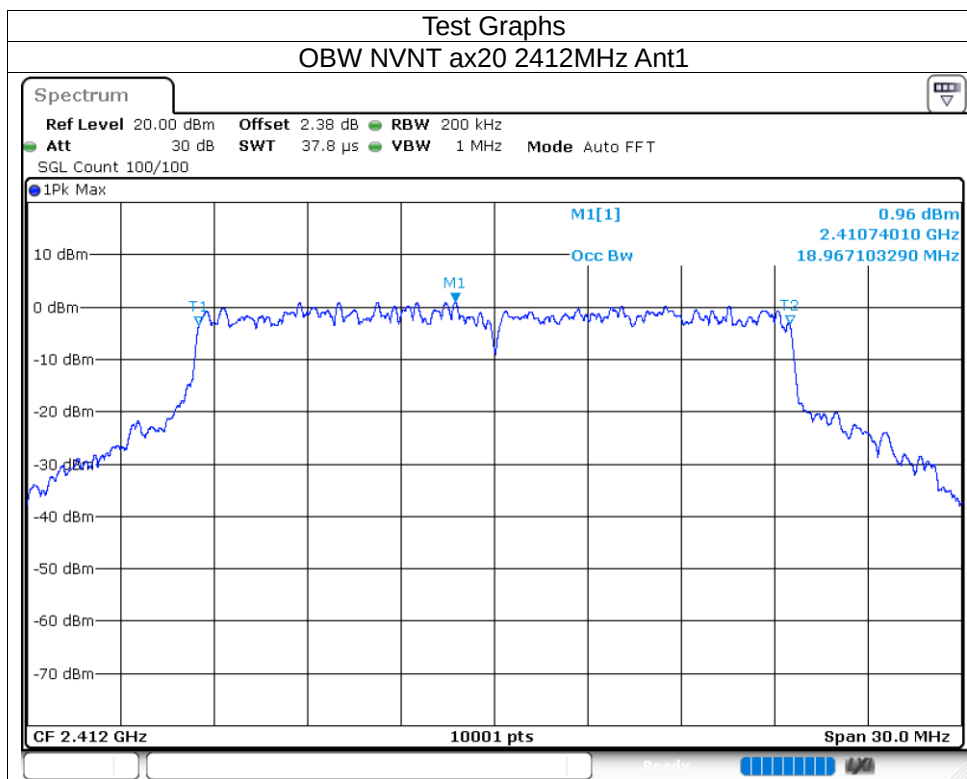


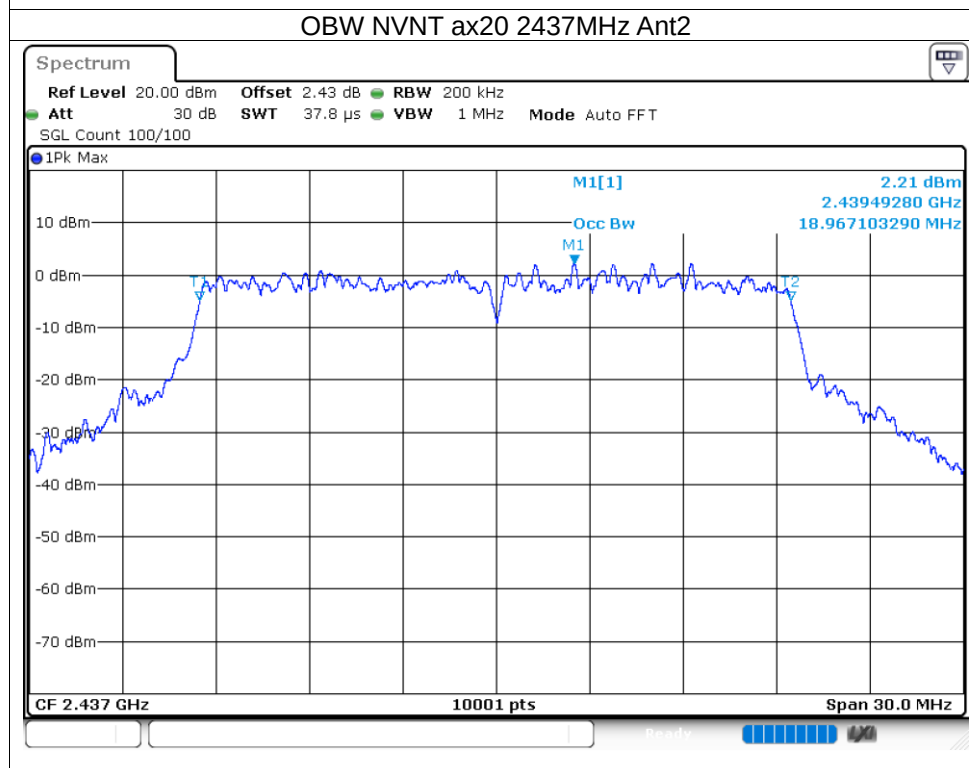
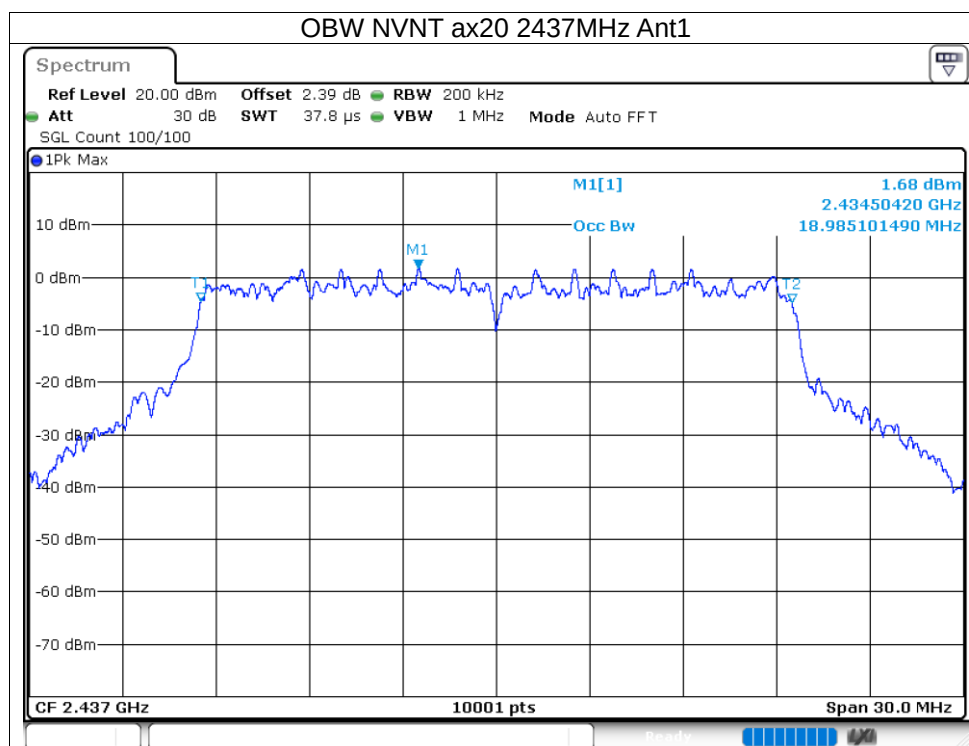


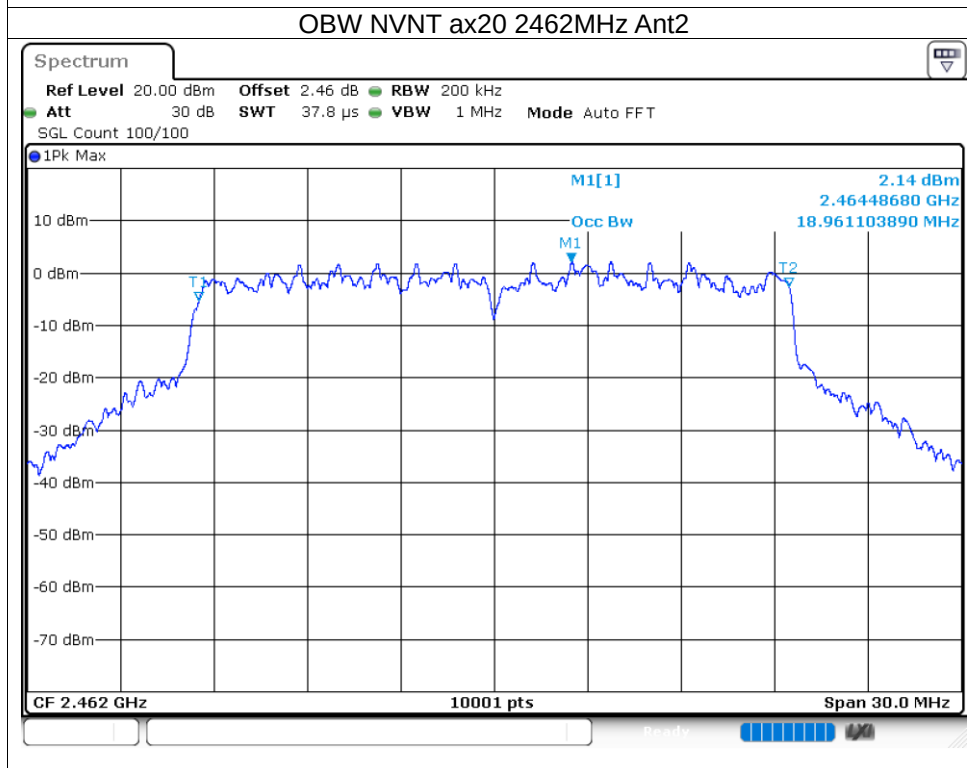
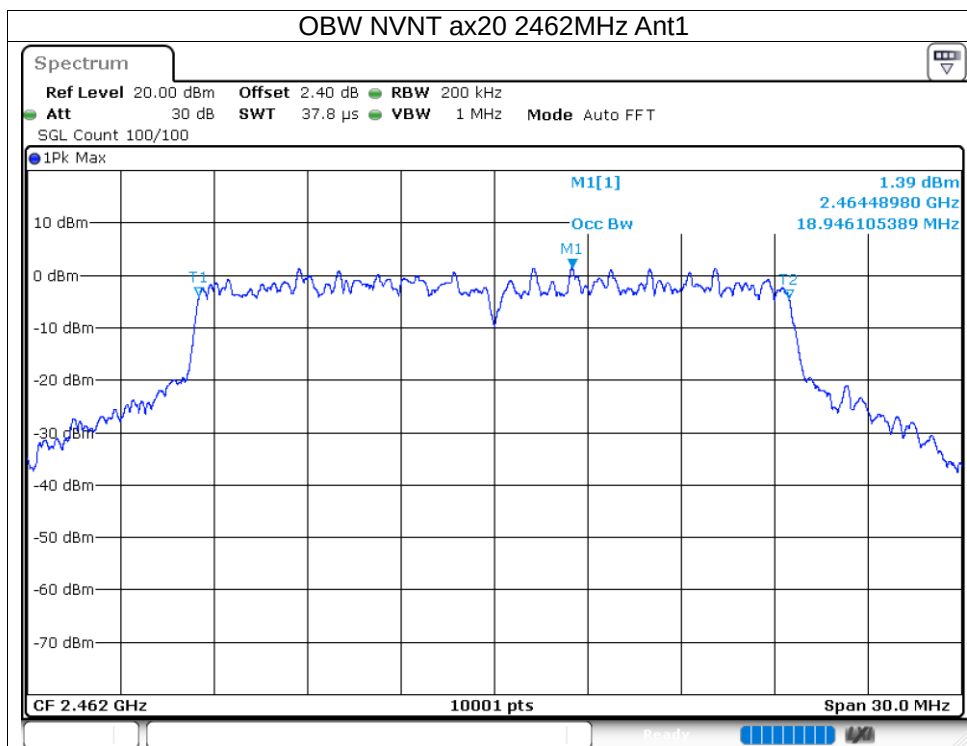


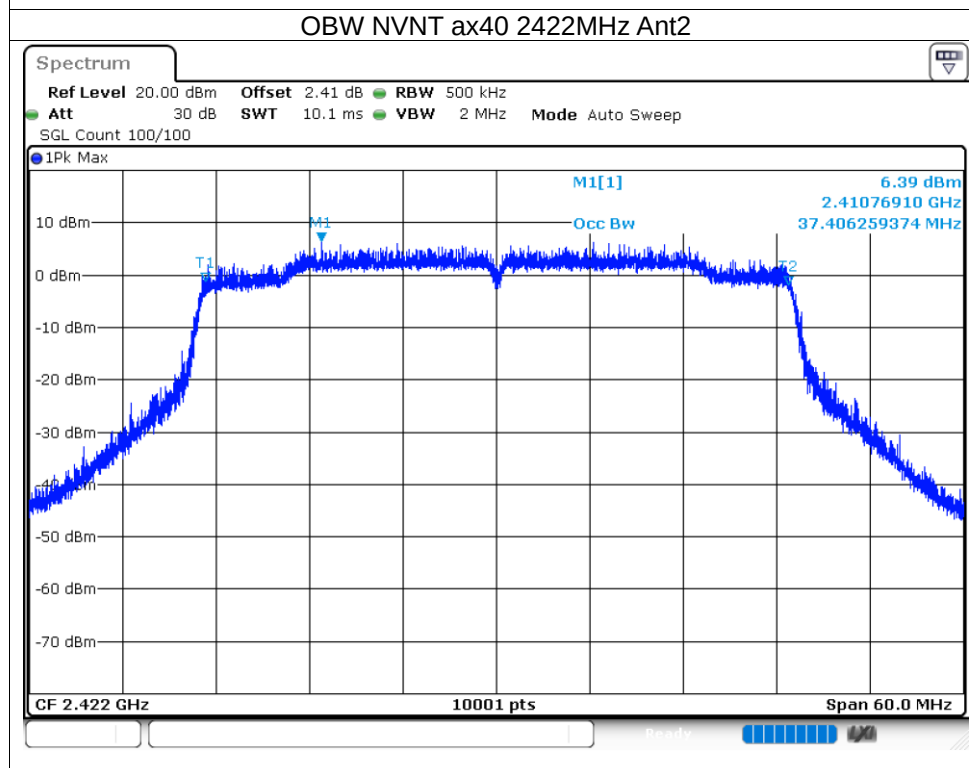
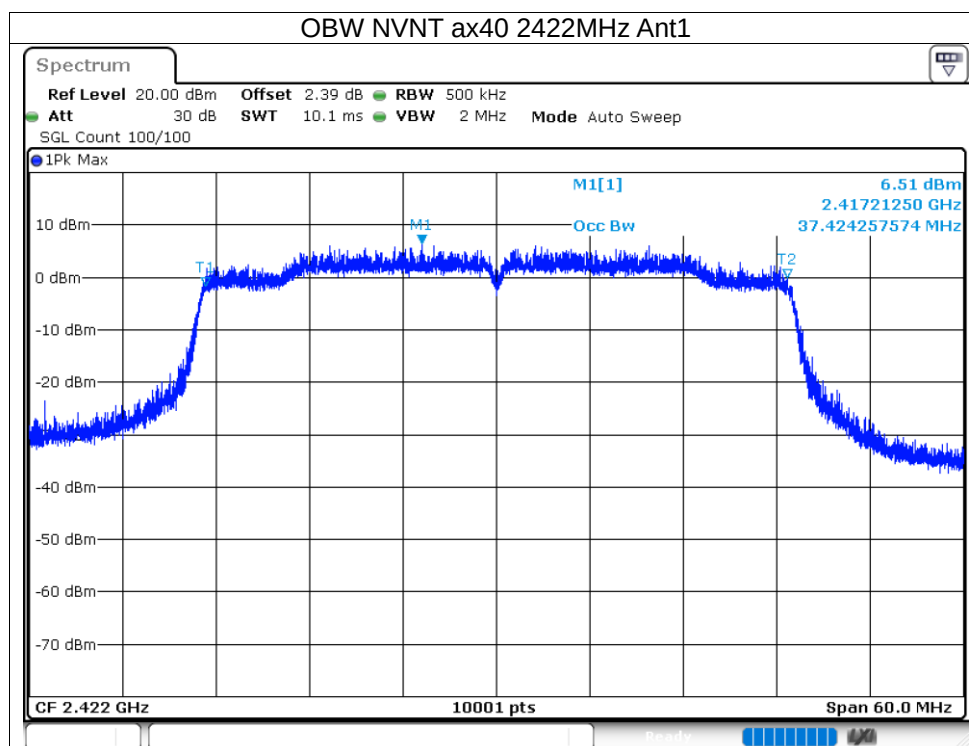
#### 8.2.4 Occupied Channel Bandwidth

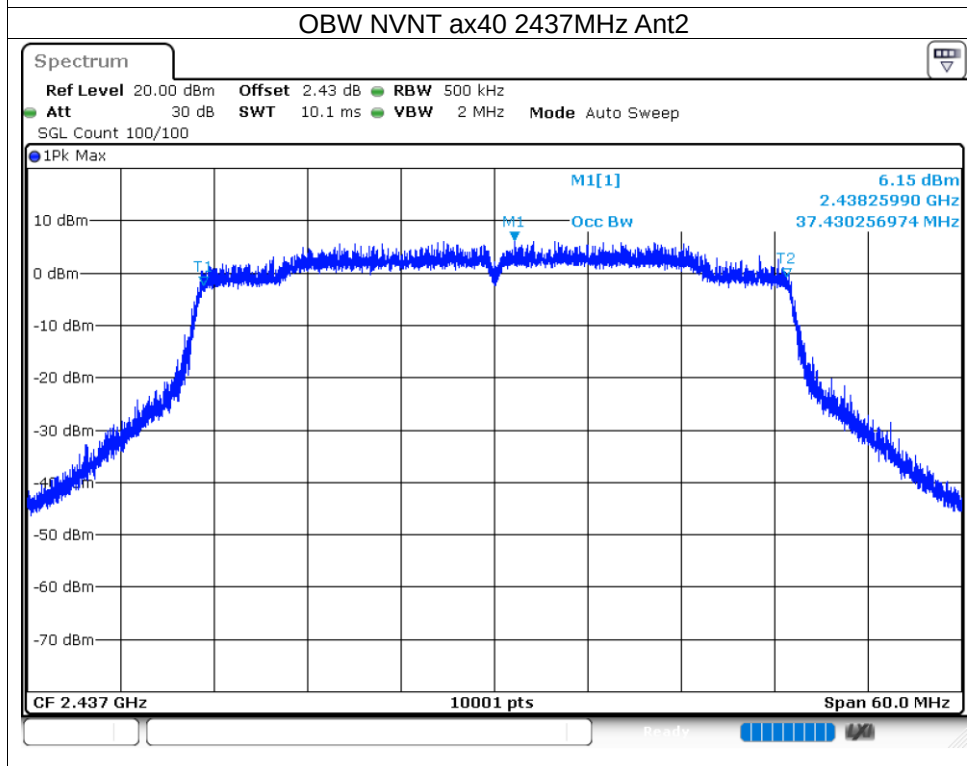
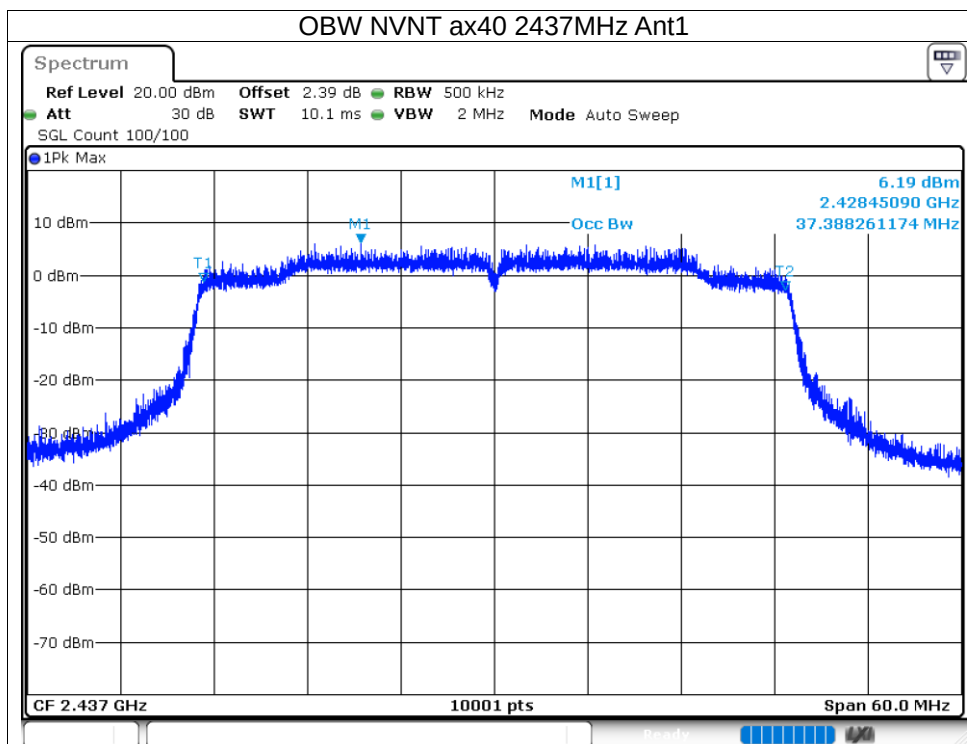
| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|------|-----------------|---------|---------------|
| NVNT      | ax20 | 2412            | Ant1    | 18.967        |
| NVNT      | ax20 | 2412            | Ant2    | 18.94         |
| NVNT      | ax20 | 2437            | Ant1    | 18.985        |
| NVNT      | ax20 | 2437            | Ant2    | 18.967        |
| NVNT      | ax20 | 2462            | Ant1    | 18.946        |
| NVNT      | ax20 | 2462            | Ant2    | 18.961        |
| NVNT      | ax40 | 2422            | Ant1    | 37.424        |
| NVNT      | ax40 | 2422            | Ant2    | 37.406        |
| NVNT      | ax40 | 2437            | Ant1    | 37.388        |
| NVNT      | ax40 | 2437            | Ant2    | 37.43         |
| NVNT      | ax40 | 2452            | Ant1    | 36.998        |
| NVNT      | ax40 | 2452            | Ant2    | 37.466        |
| NVNT      | n20  | 2412            | Ant1    | 17.8          |
| NVNT      | n20  | 2412            | Ant2    | 17.698        |
| NVNT      | n20  | 2437            | Ant1    | 17.701        |
| NVNT      | n20  | 2437            | Ant2    | 17.716        |
| NVNT      | n20  | 2462            | Ant1    | 17.737        |
| NVNT      | n20  | 2462            | Ant2    | 17.791        |
| NVNT      | n40  | 2422            | Ant1    | 36.032        |
| NVNT      | n40  | 2422            | Ant2    | 35.96         |
| NVNT      | n40  | 2437            | Ant1    | 35.96         |
| NVNT      | n40  | 2437            | Ant2    | 35.966        |
| NVNT      | n40  | 2452            | Ant1    | 35.624        |
| NVNT      | n40  | 2452            | Ant2    | 35.978        |

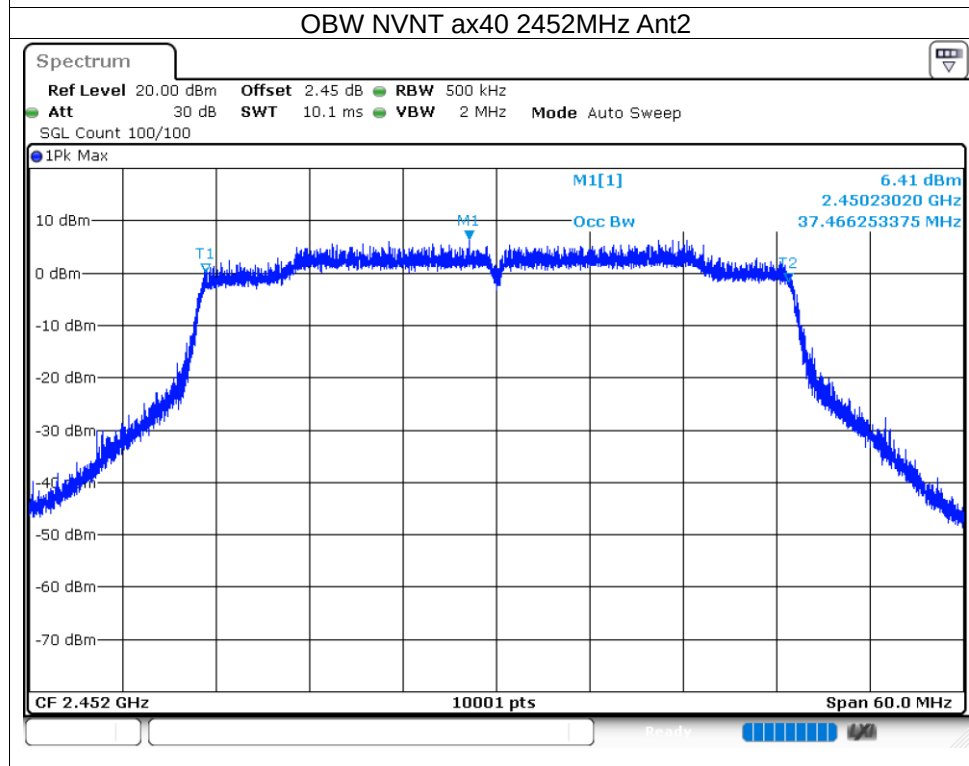
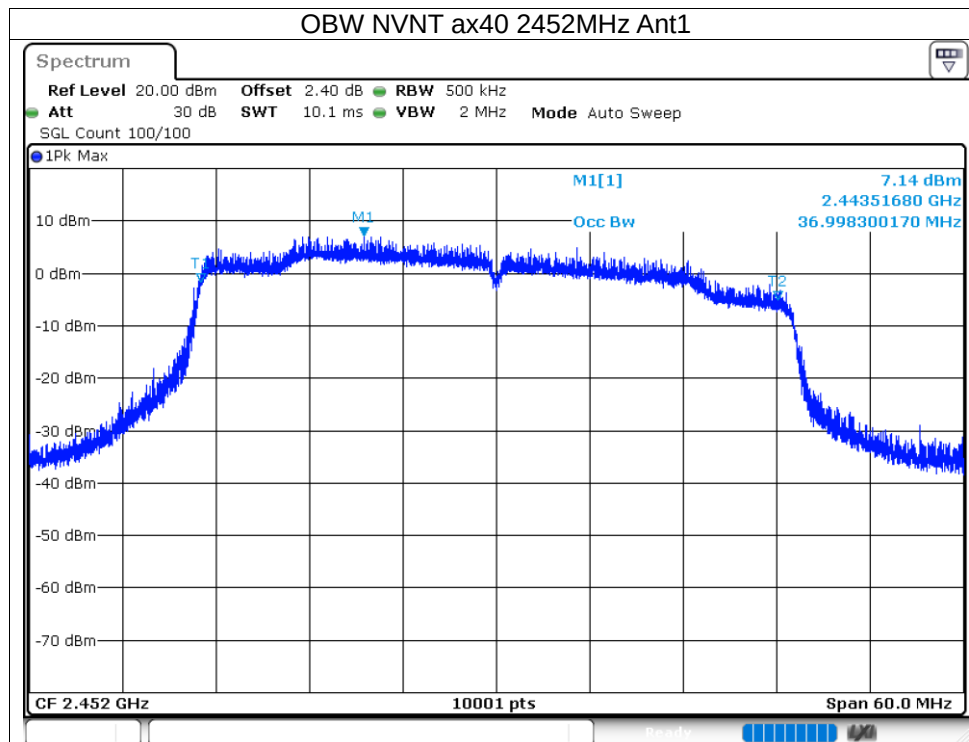


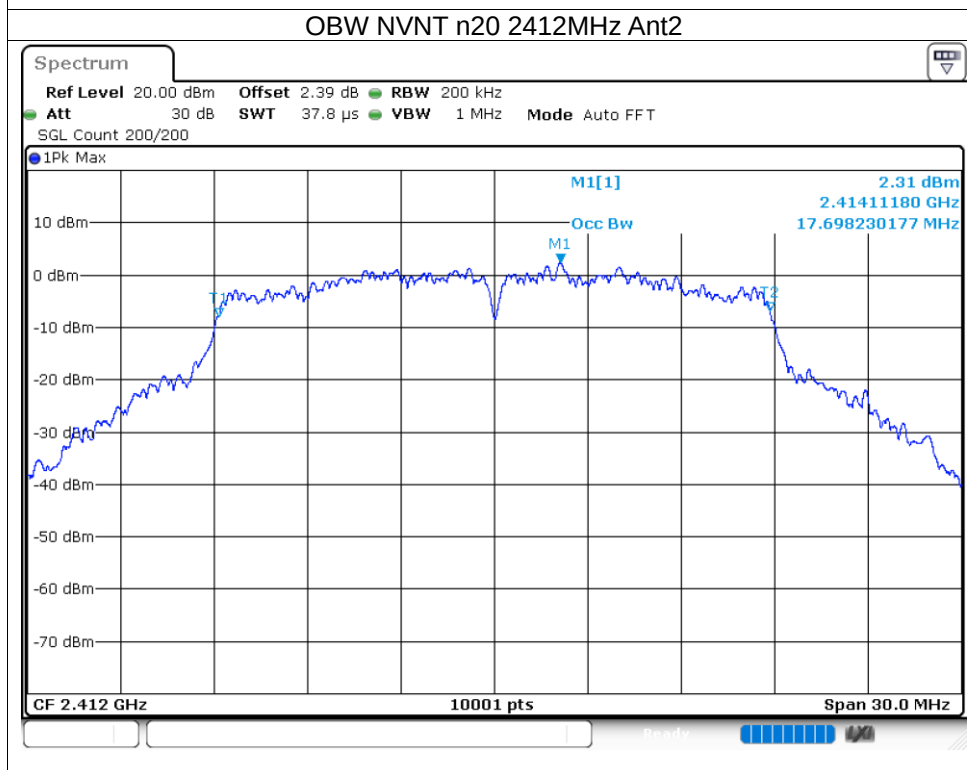
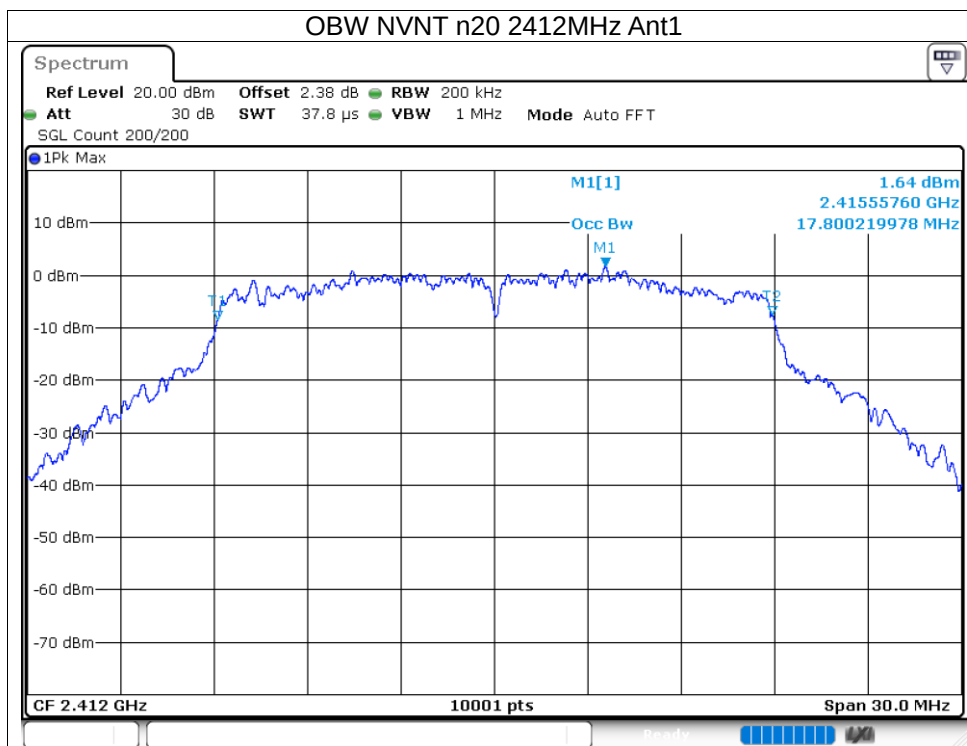


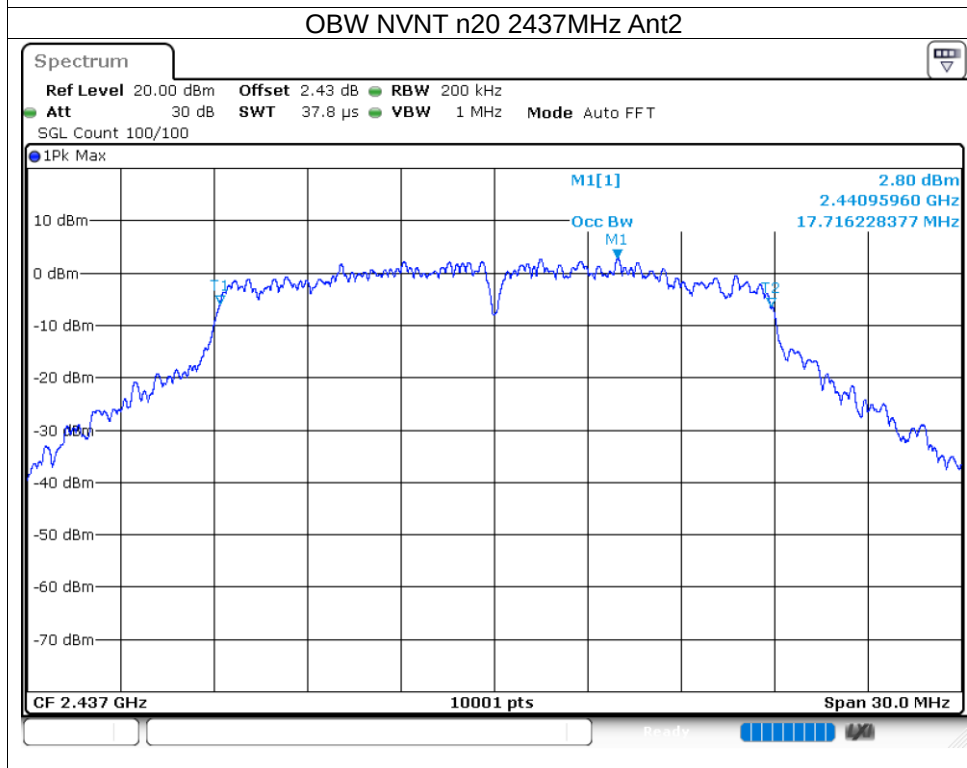
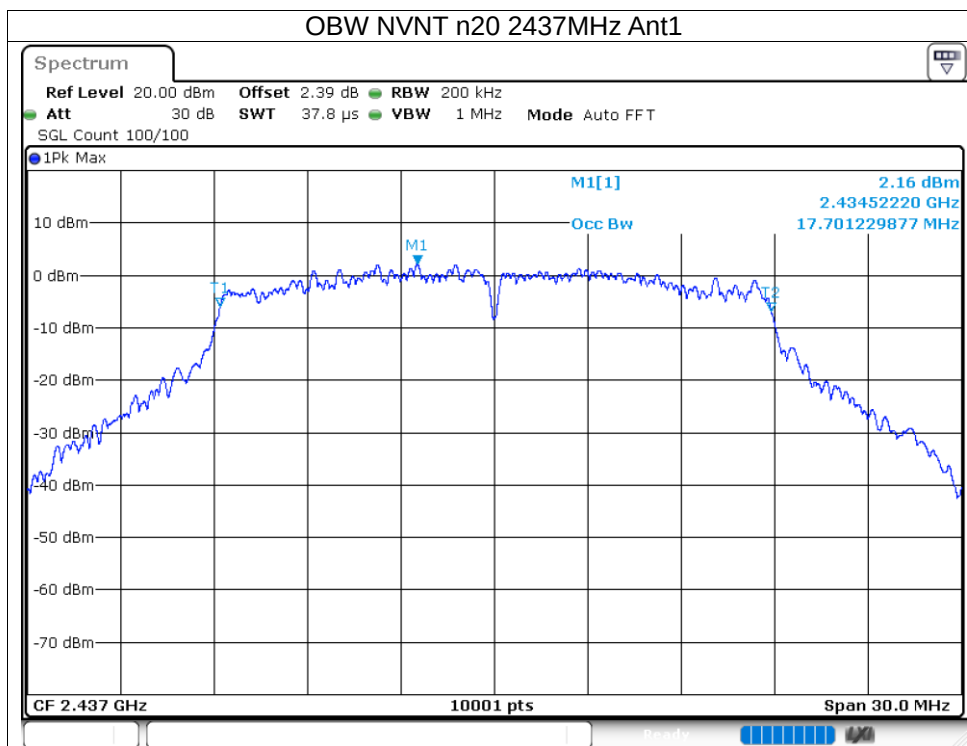


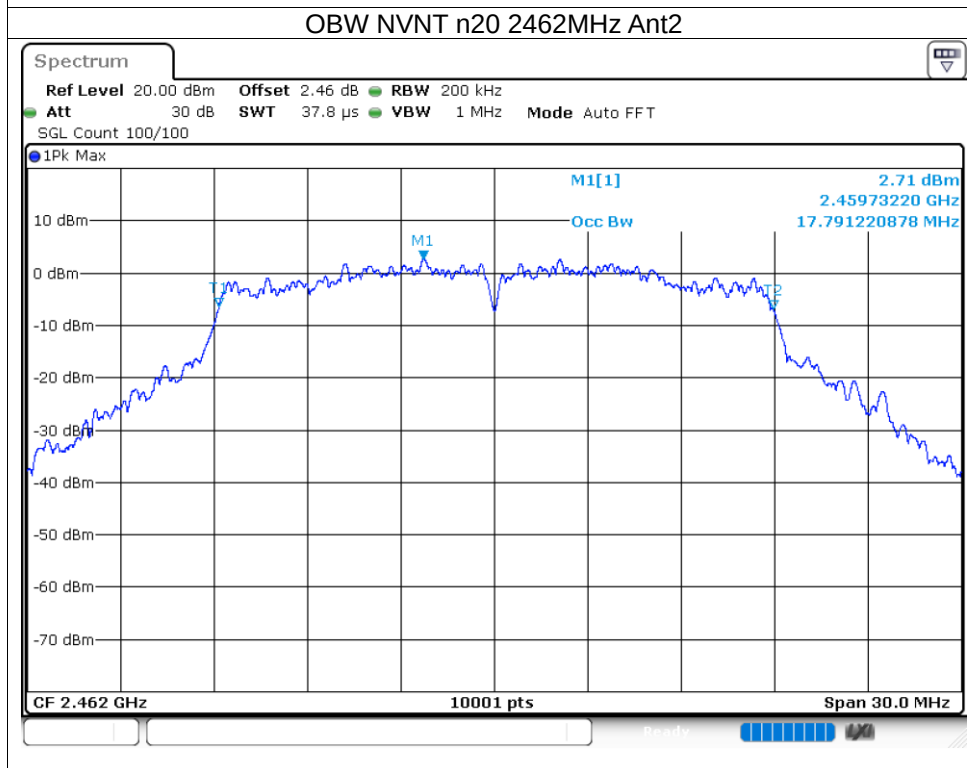
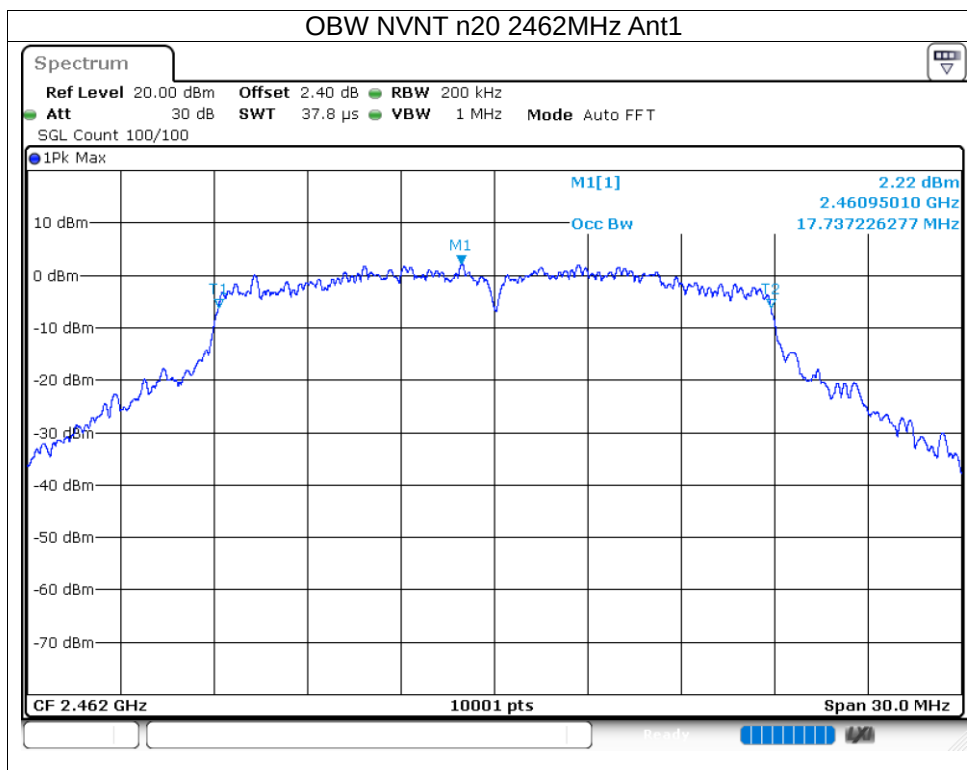


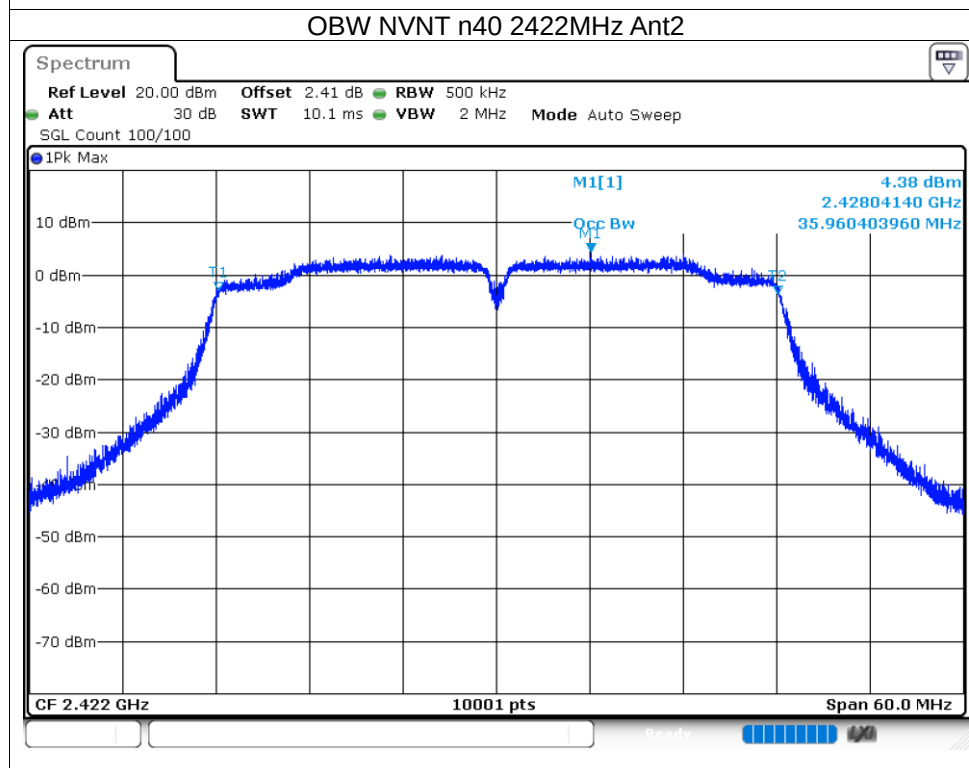
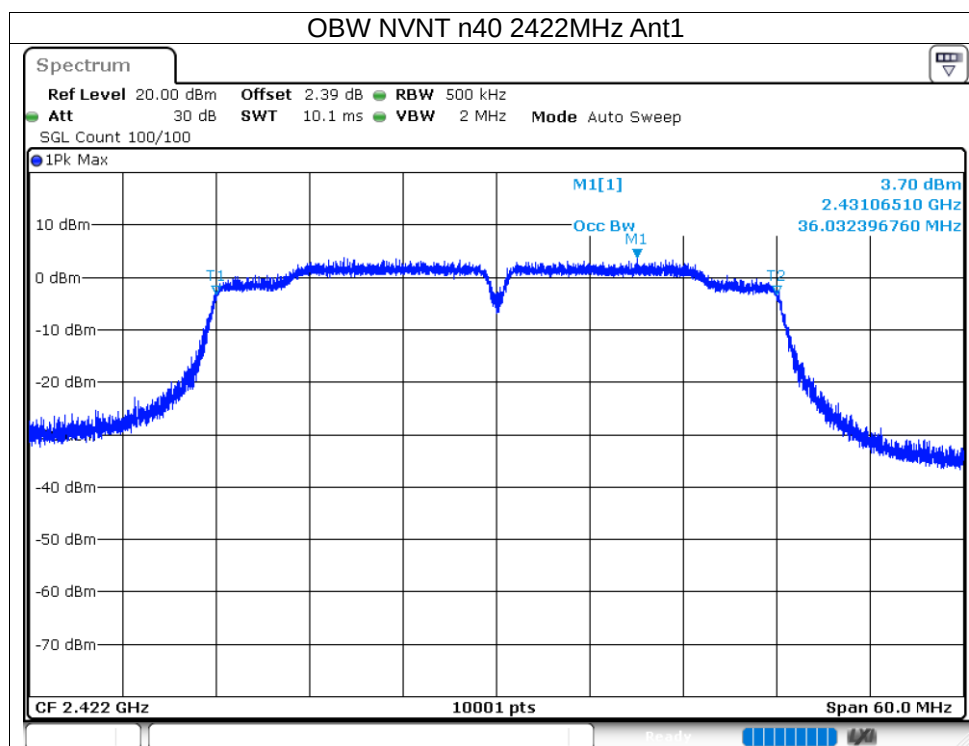


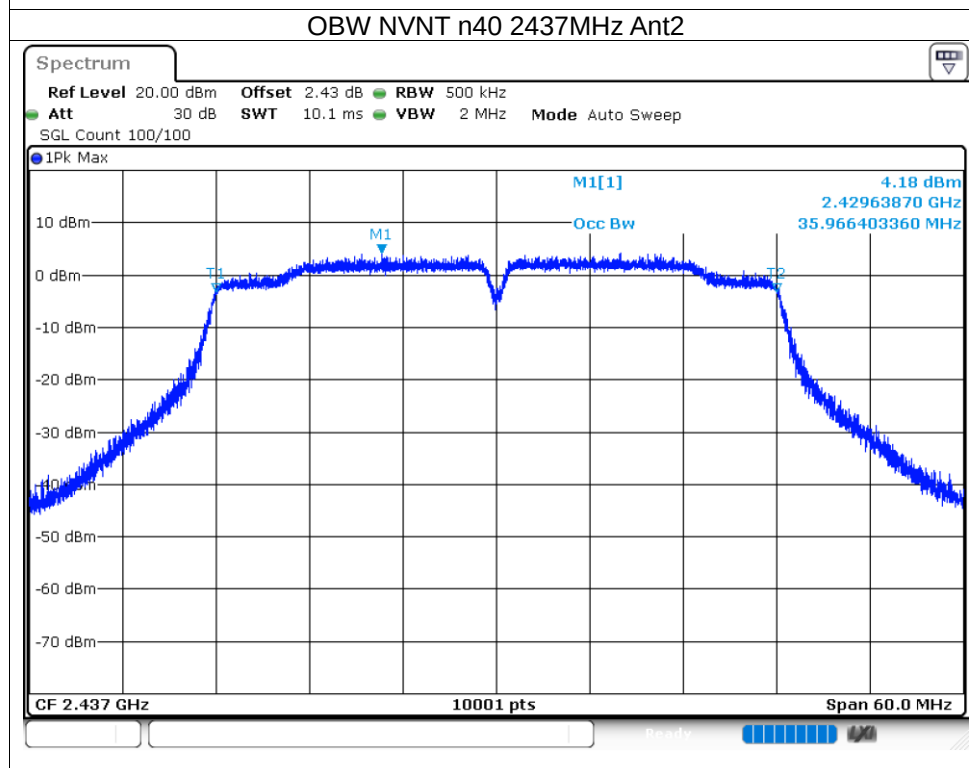
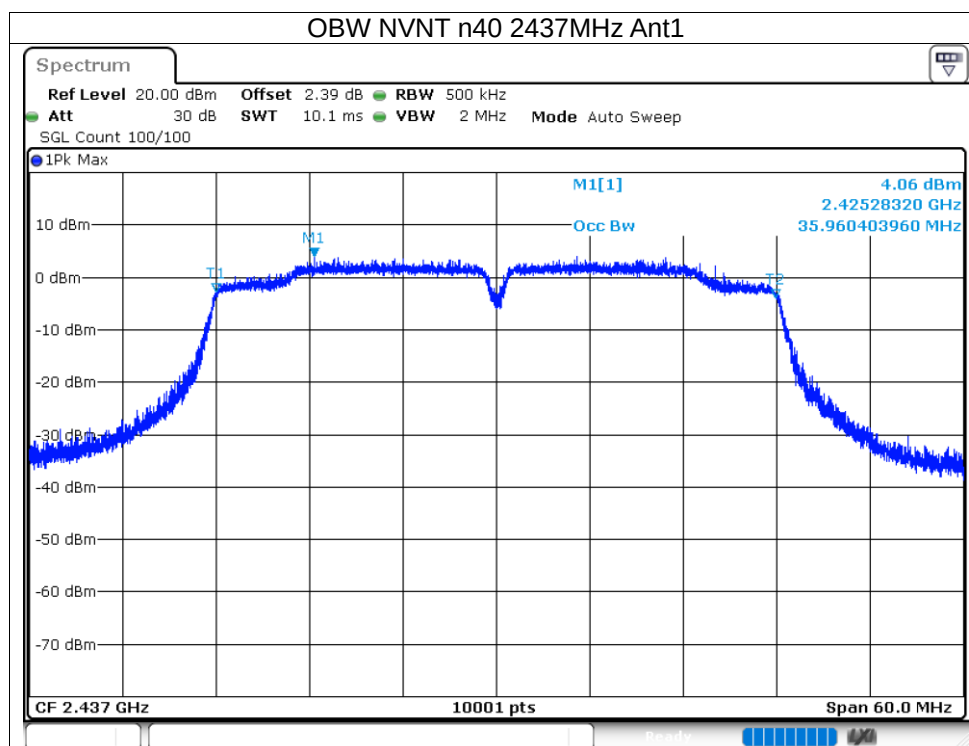


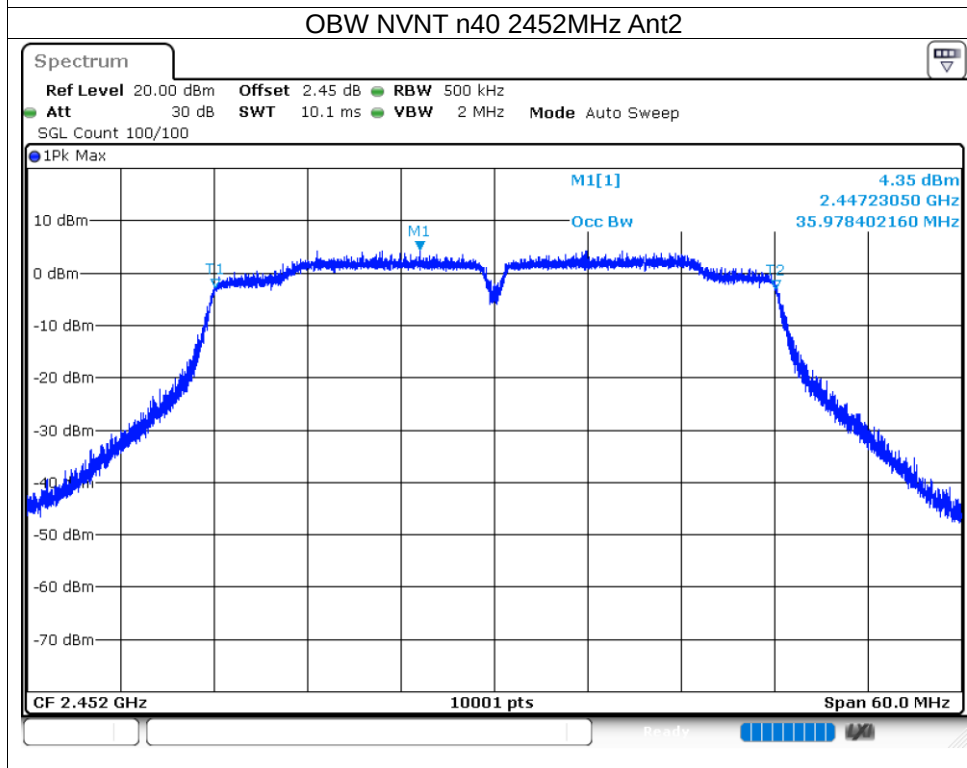
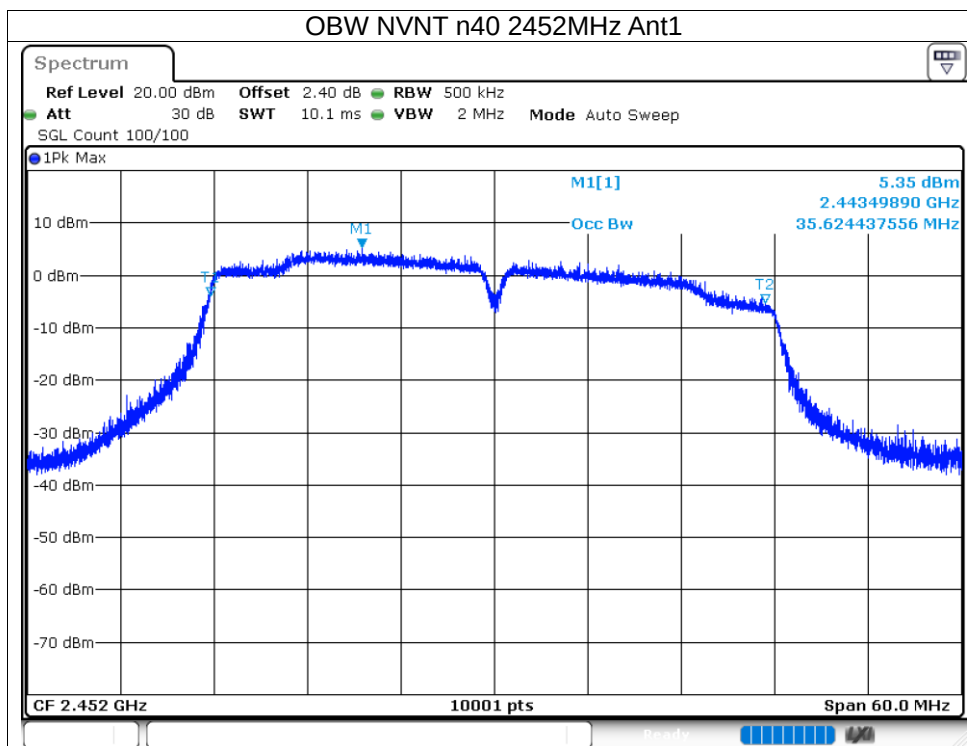












### 8.2.5 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm) | Duty Factor (dB) | Total PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|---------------------|------------------|-----------------|-------------|---------|
| NVNT      | ax20 | 2412            | Ant1    | -11.53              | 0.43             | -11.1           | 8           | Pass    |
| NVNT      | ax20 | 2412            | Ant2    | -11.34              | 0.43             | -10.91          | 8           | Pass    |
| NVNT      | ax20 | 2412            | Sum     | -8.42               | 0.43             | -7.99           | 8           | Pass    |
| NVNT      | ax20 | 2437            | Ant1    | -11.49              | 0.43             | -11.06          | 8           | Pass    |
| NVNT      | ax20 | 2437            | Ant2    | -11.36              | 0.43             | -10.93          | 8           | Pass    |
| NVNT      | ax20 | 2437            | Sum     | -8.41               | 0.43             | -7.98           | 8           | Pass    |
| NVNT      | ax20 | 2462            | Ant1    | -12.1               | 0.43             | -11.67          | 8           | Pass    |
| NVNT      | ax20 | 2462            | Ant2    | -11.38              | 0.43             | -10.95          | 8           | Pass    |
| NVNT      | ax20 | 2462            | Sum     | -8.71               | 0.43             | -8.28           | 8           | Pass    |
| NVNT      | ax40 | 2422            | Ant1    | -12.65              | 0.02             | -12.63          | 8           | Pass    |
| NVNT      | ax40 | 2422            | Ant2    | -12.52              | 0.02             | -12.5           | 8           | Pass    |
| NVNT      | ax40 | 2422            | Sum     | -9.57               | 0.02             | -9.55           | 8           | Pass    |
| NVNT      | ax40 | 2437            | Ant1    | -12.67              | 0.02             | -12.65          | 8           | Pass    |
| NVNT      | ax40 | 2437            | Ant2    | -12.4               | 0.02             | -12.38          | 8           | Pass    |
| NVNT      | ax40 | 2437            | Sum     | -9.52               | 0.02             | -9.5            | 8           | Pass    |
| NVNT      | ax40 | 2452            | Ant1    | -11.54              | 0.02             | -11.52          | 8           | Pass    |
| NVNT      | ax40 | 2452            | Ant2    | -12.57              | 0.02             | -12.55          | 8           | Pass    |
| NVNT      | ax40 | 2452            | Sum     | -9.01               | 0.02             | -8.99           | 8           | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -9.14               | 0.02             | -9.12           | 8           | Pass    |
| NVNT      | n20  | 2412            | Ant2    | -8.89               | 0.02             | -8.87           | 8           | Pass    |
| NVNT      | n20  | 2412            | Sum     | -6                  | 0.02             | -5.98           | 8           | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -8.17               | 0.01             | -8.16           | 8           | Pass    |
| NVNT      | n20  | 2437            | Ant2    | -7.39               | 0.01             | -7.38           | 8           | Pass    |
| NVNT      | n20  | 2437            | Sum     | -4.75               | 0.01             | -4.74           | 8           | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -7.83               | 0.02             | -7.81           | 8           | Pass    |
| NVNT      | n20  | 2462            | Ant2    | -7.81               | 0.02             | -7.79           | 8           | Pass    |
| NVNT      | n20  | 2462            | Sum     | -4.81               | 0.02             | -4.79           | 8           | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -11.18              | 0.02             | -11.16          | 8           | Pass    |
| NVNT      | n40  | 2422            | Ant2    | -10.96              | 0.02             | -10.94          | 8           | Pass    |
| NVNT      | n40  | 2422            | Sum     | -8.06               | 0.02             | -8.04           | 8           | Pass    |
| NVNT      | n40  | 2437            | Ant1    | -10.87              | 0.02             | -10.85          | 8           | Pass    |
| NVNT      | n40  | 2437            | Ant2    | -10.69              | 0.02             | -10.67          | 8           | Pass    |
| NVNT      | n40  | 2437            | Sum     | -7.77               | 0.02             | -7.75           | 8           | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -9.76               | 0.02             | -9.74           | 8           | Pass    |
| NVNT      | n40  | 2452            | Ant2    | -10.87              | 0.02             | -10.85          | 8           | Pass    |
| NVNT      | n40  | 2452            | Sum     | -7.27               | 0.02             | -7.25           | 8           | Pass    |

