

## Appendix: Bluetooth LE

Contents

Contents ..... 2

Duty Cycle ..... 3

Maximum Peak Conducted Output Power ..... 7

-6dB Bandwidth ..... 11

Occupied Channel Bandwidth ..... 15

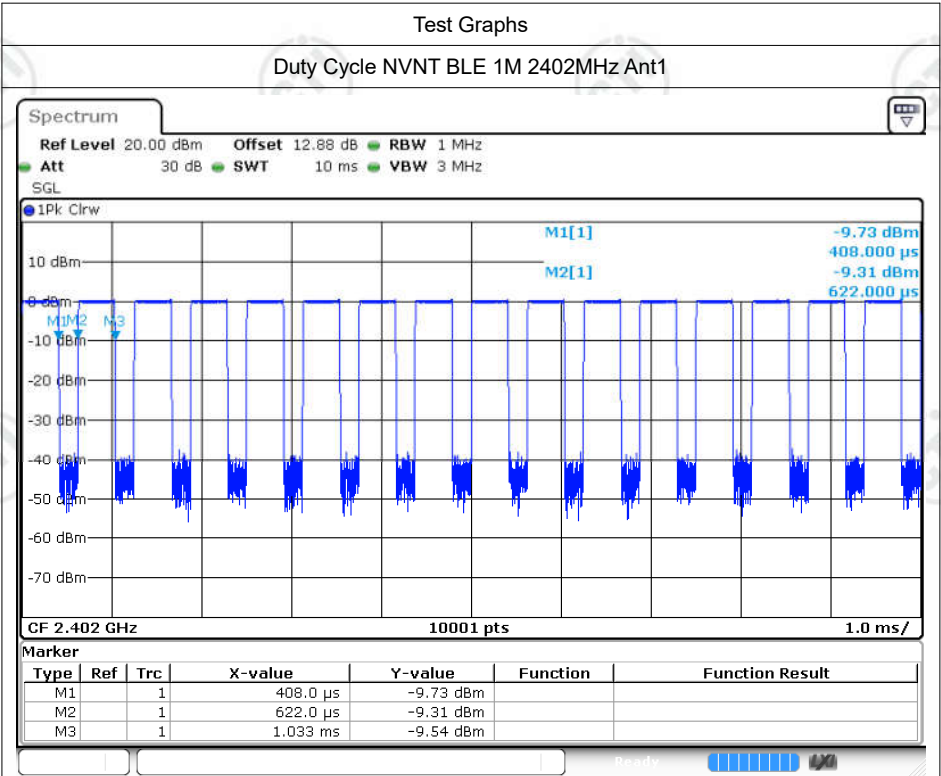
Maximum Power Spectral Density Level ..... 19

Band Edge ..... 23

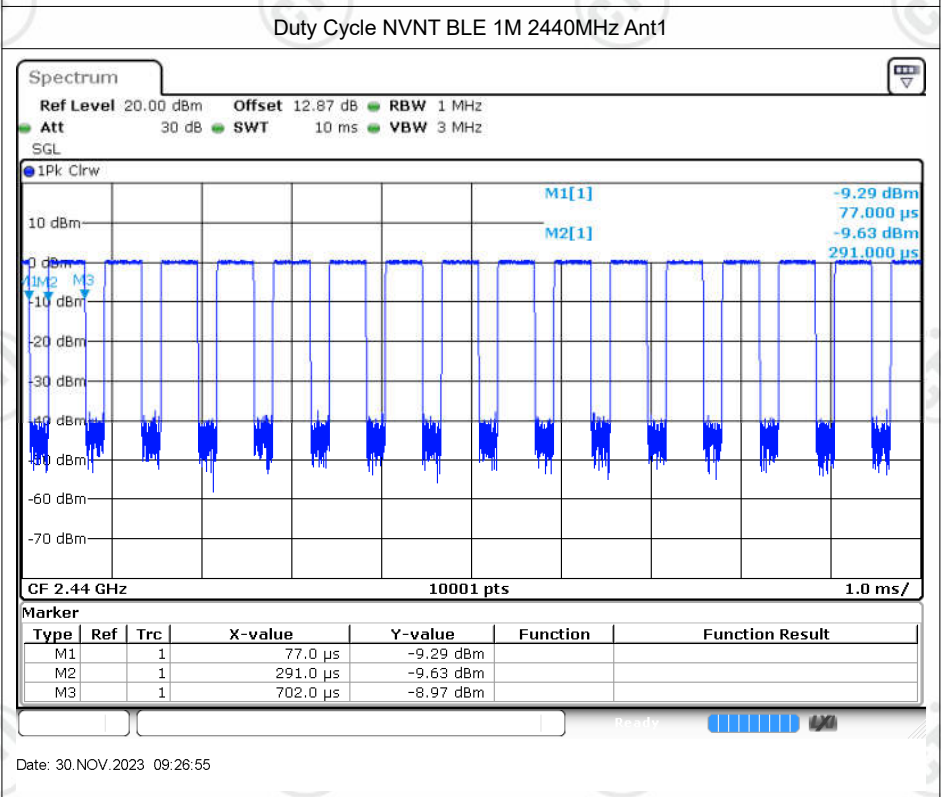
Conducted RF Spurious Emission ..... 28

Duty Cycle

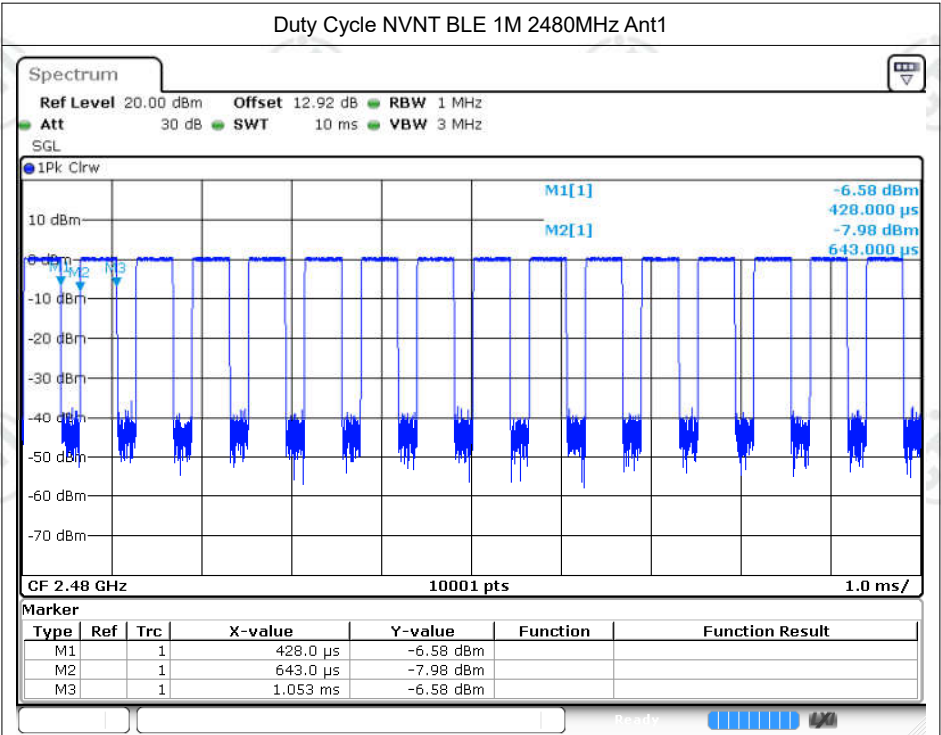
| Condition | Mode   | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|--------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | BLE 1M | 2402            | Ant1    | 65.76          | 1.82                   | 2.43      |
| NVNT      | BLE 1M | 2440            | Ant1    | 65.76          | 1.82                   | 2.43      |
| NVNT      | BLE 1M | 2480            | Ant1    | 65.6           | 1.83                   | 2.44      |
| NVNT      | BLE 2M | 2402            | Ant1    | 38.08          | 4.19                   | 4.2       |
| NVNT      | BLE 2M | 2440            | Ant1    | 38.08          | 4.19                   | 4.2       |
| NVNT      | BLE 2M | 2480            | Ant1    | 38.08          | 4.19                   | 4.2       |



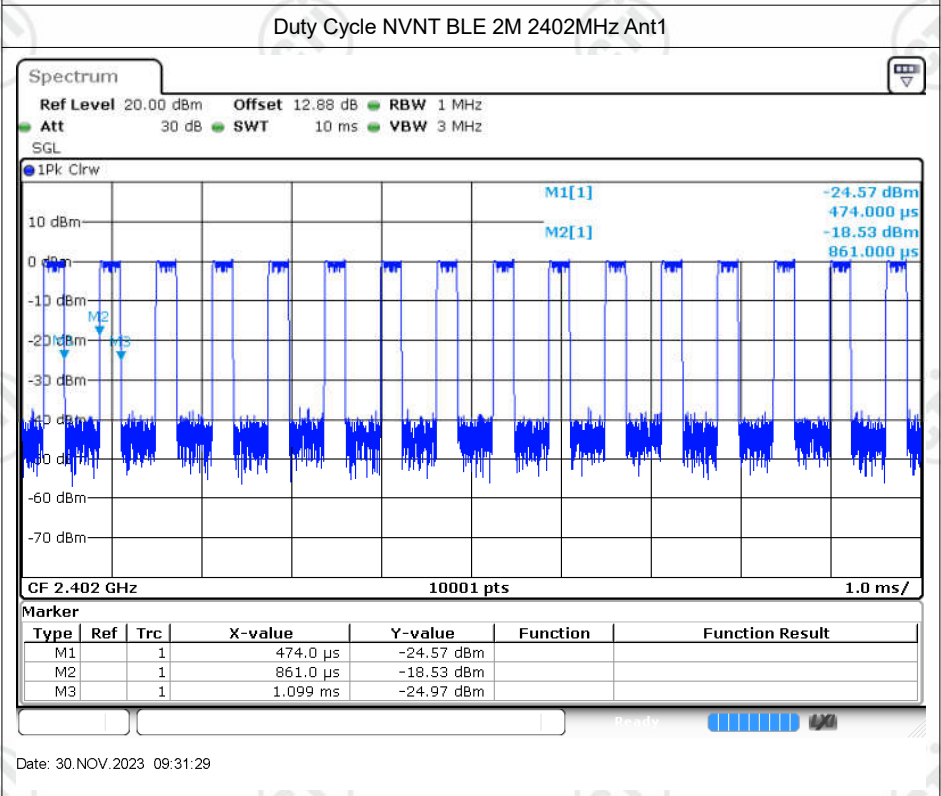
Date: 30.NOV.2023 09:24:00



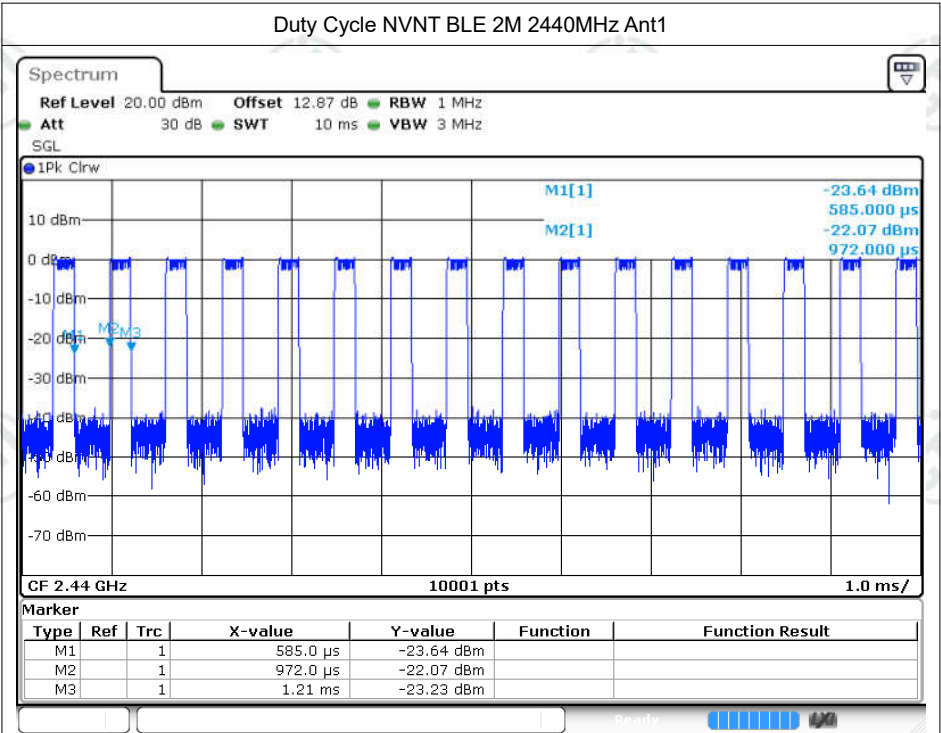
Date: 30.NOV.2023 09:26:55



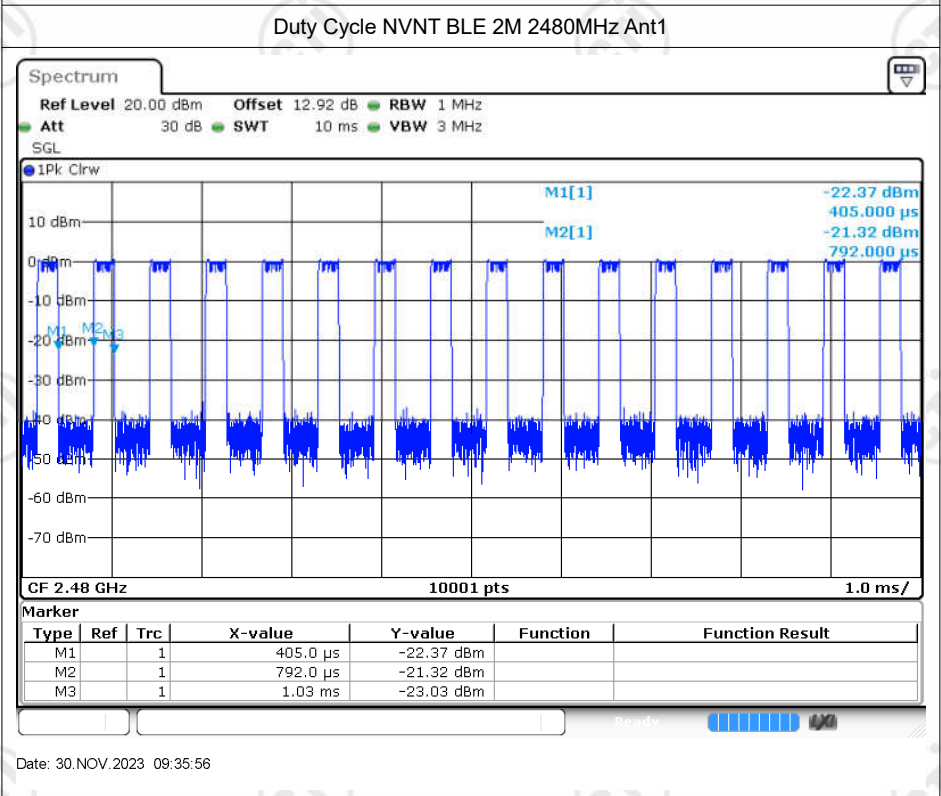
Date: 30.NOV.2023 09:28:38



Date: 30.NOV.2023 09:31:29



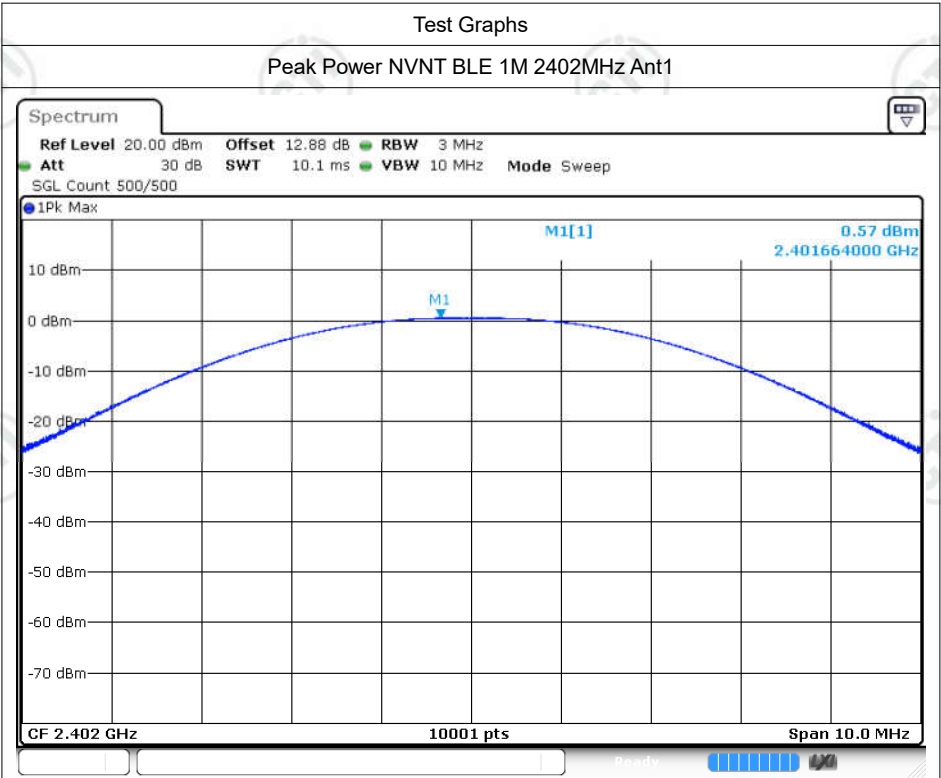
Date: 30.NOV.2023 09:33:11



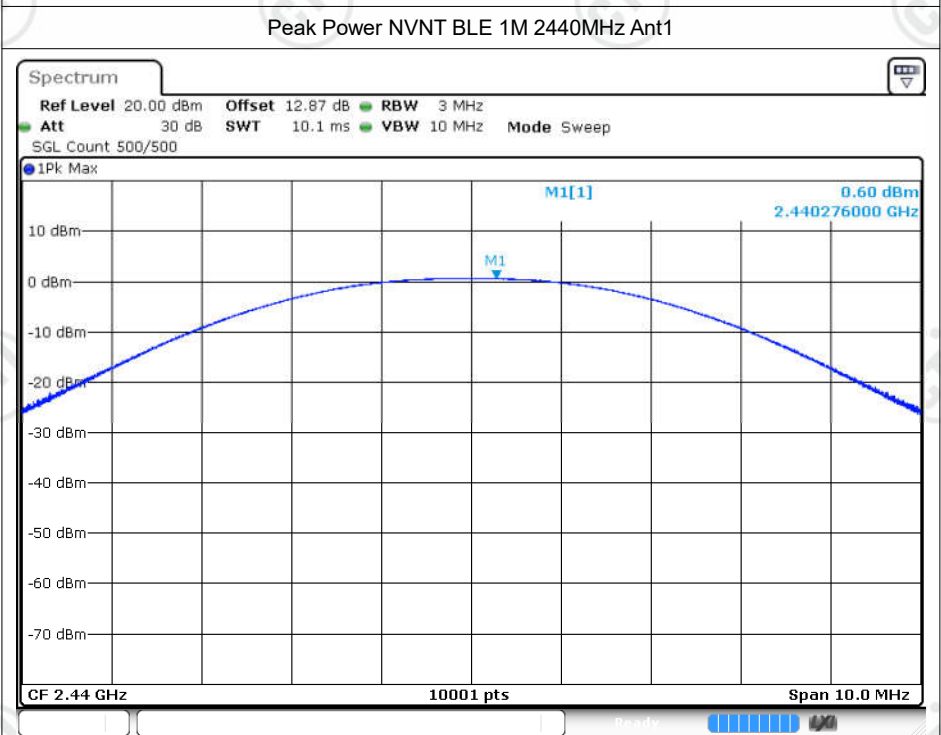
Date: 30.NOV.2023 09:35:56

Maximum Peak Conducted Output Power

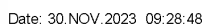
| Condition | Mode   | Frequency<br>(MHz) | Antenna | Conducted Power<br>(dBm) | Limit<br>(dBm) | Verdict |
|-----------|--------|--------------------|---------|--------------------------|----------------|---------|
| NVNT      | BLE 1M | 2402               | Ant1    | 0.57                     | 30             | Pass    |
| NVNT      | BLE 1M | 2440               | Ant1    | 0.6                      | 30             | Pass    |
| NVNT      | BLE 1M | 2480               | Ant1    | 0.62                     | 30             | Pass    |
| NVNT      | BLE 2M | 2402               | Ant1    | 0.47                     | 30             | Pass    |
| NVNT      | BLE 2M | 2440               | Ant1    | 0.57                     | 30             | Pass    |
| NVNT      | BLE 2M | 2480               | Ant1    | 0.58                     | 30             | Pass    |

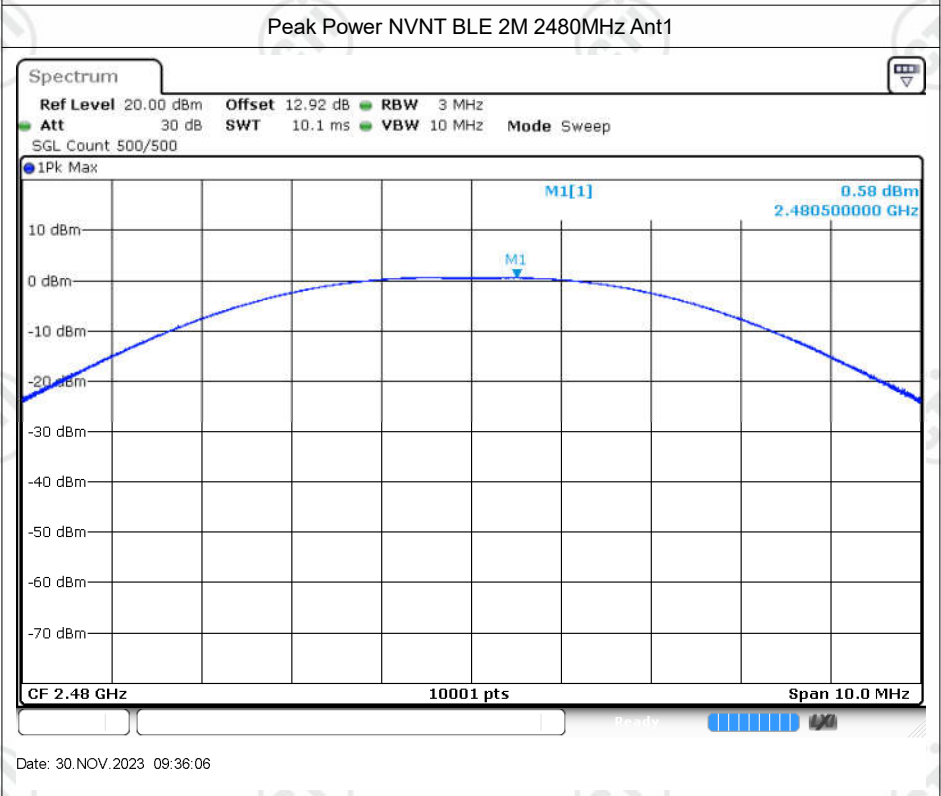
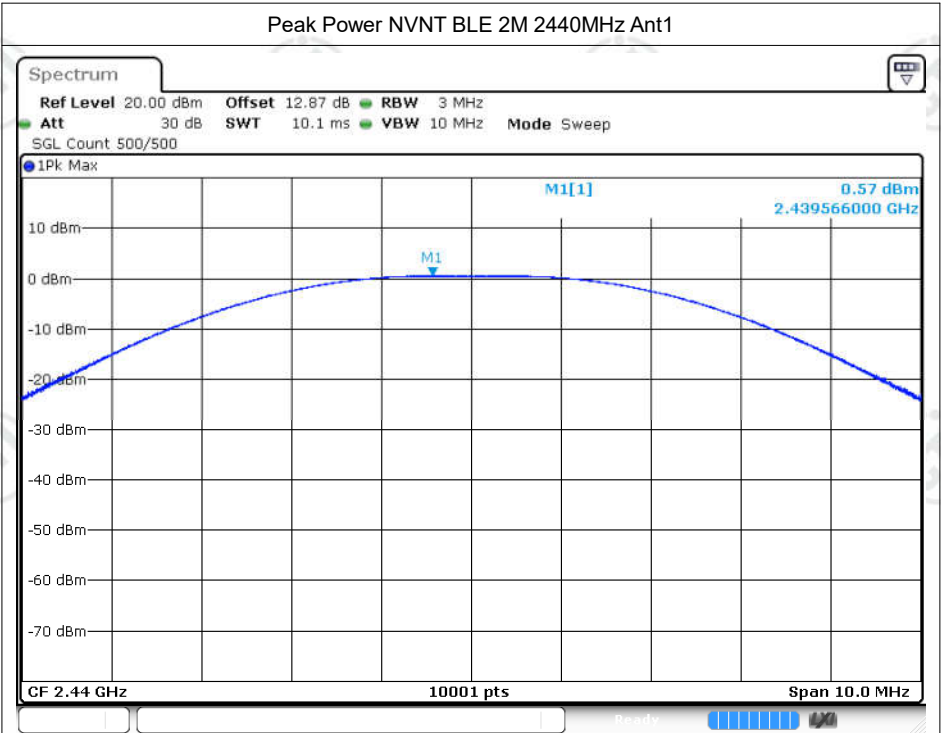


Date: 30.NOV.2023 09:24:10



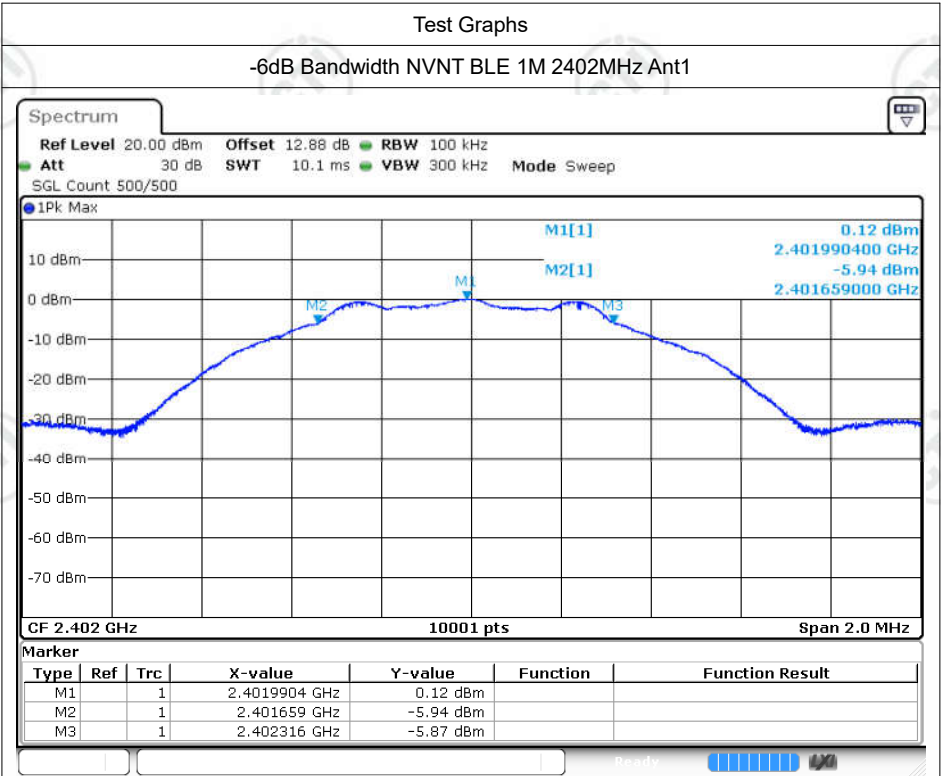
Date: 30.NOV.2023 09:27:05



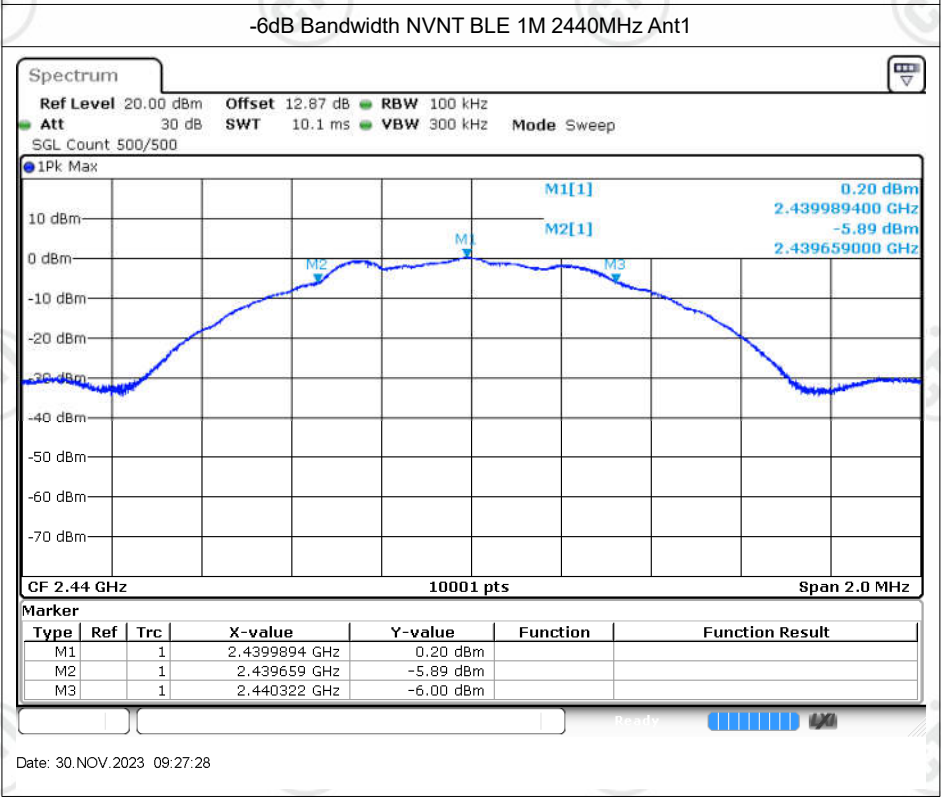


-6dB Bandwidth

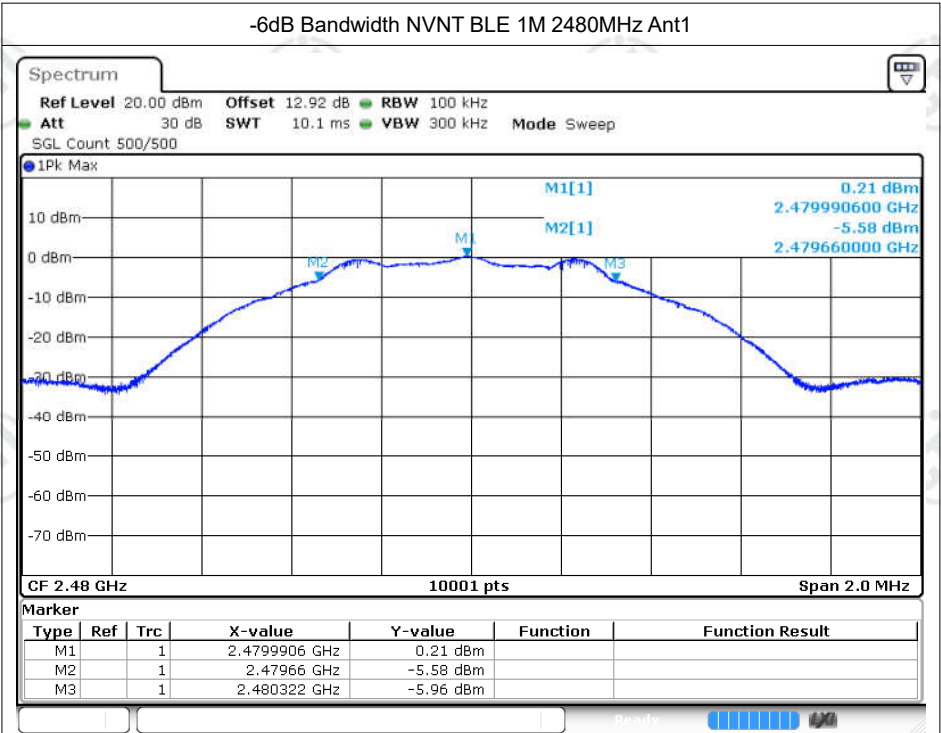
| Condition | Mode   | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 0.657                 | 0.5                         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 0.662                 | 0.5                         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 0.662                 | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 1.113                 | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | 1.116                 | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 1.094                 | 0.5                         | Pass    |



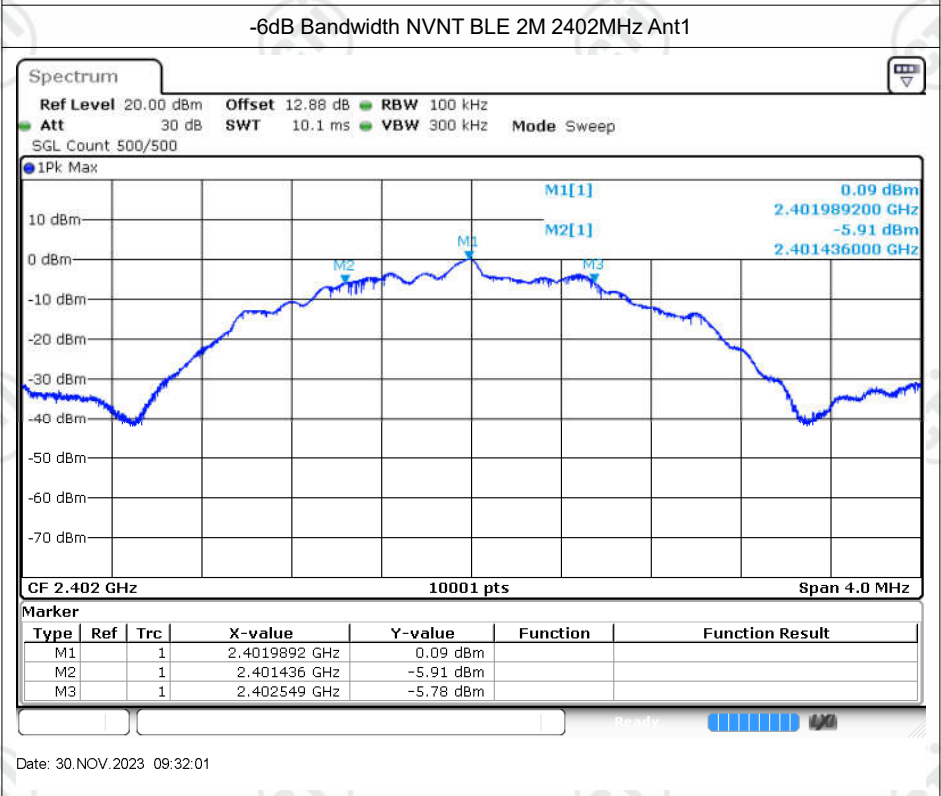
Date: 30.NOV.2023 09:24:32



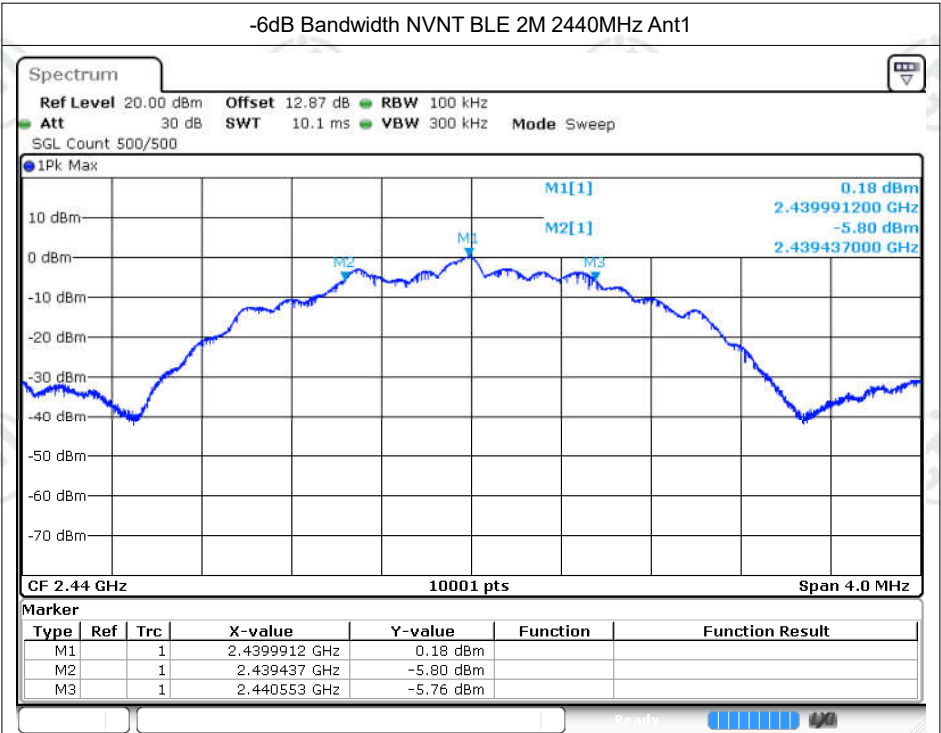
Date: 30.NOV.2023 09:27:28



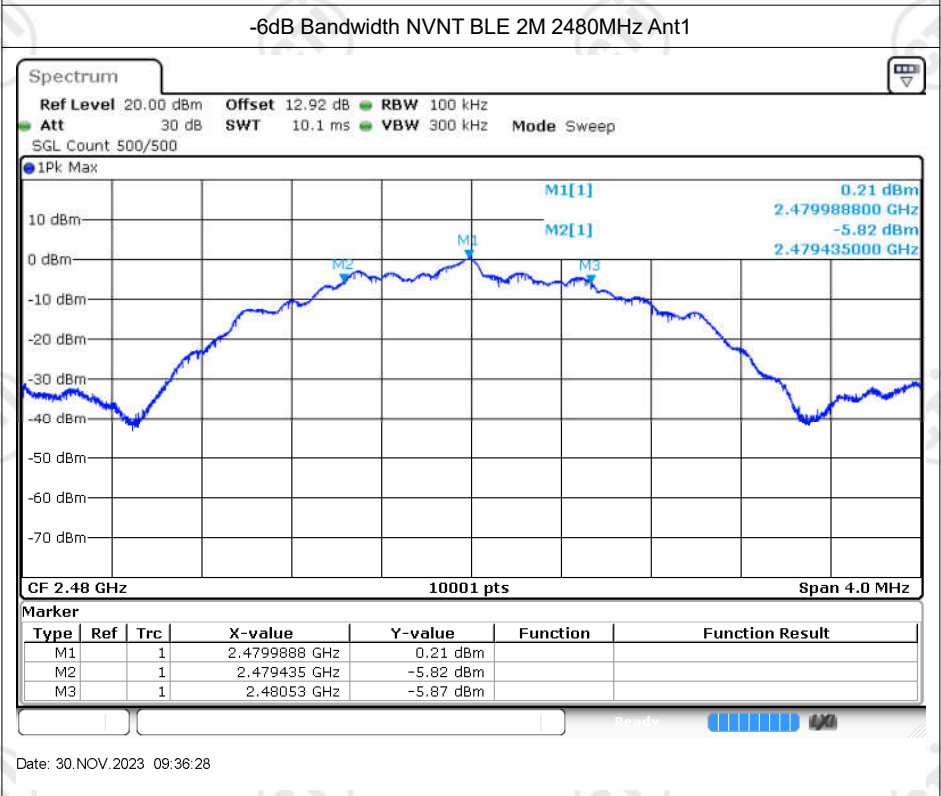
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Date: 30.NOV.2023 09:32:01



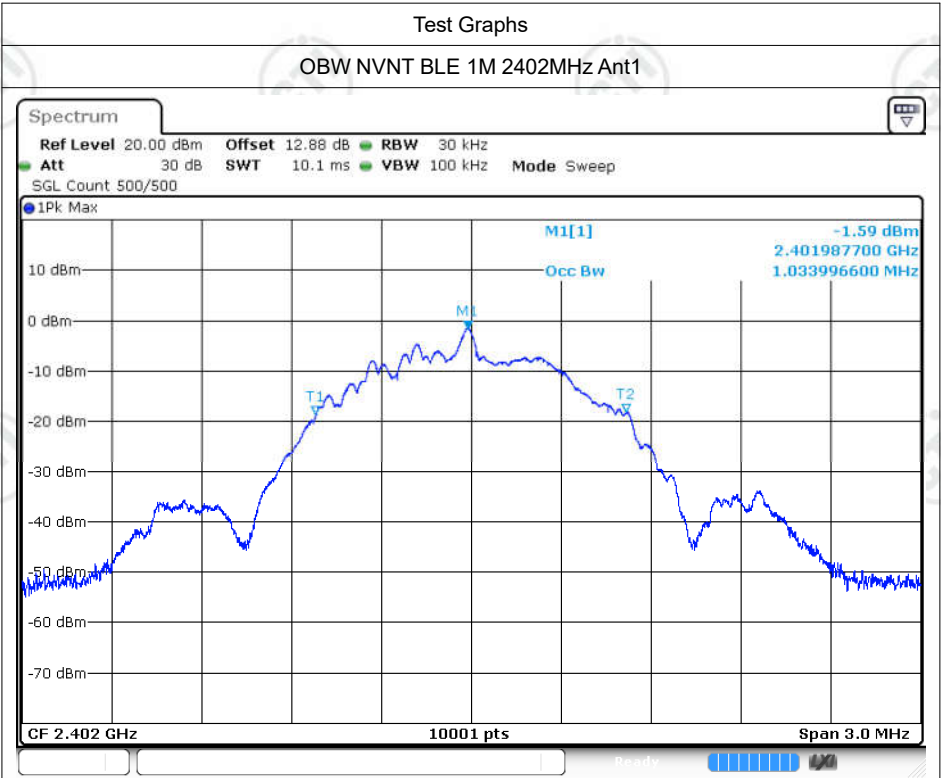
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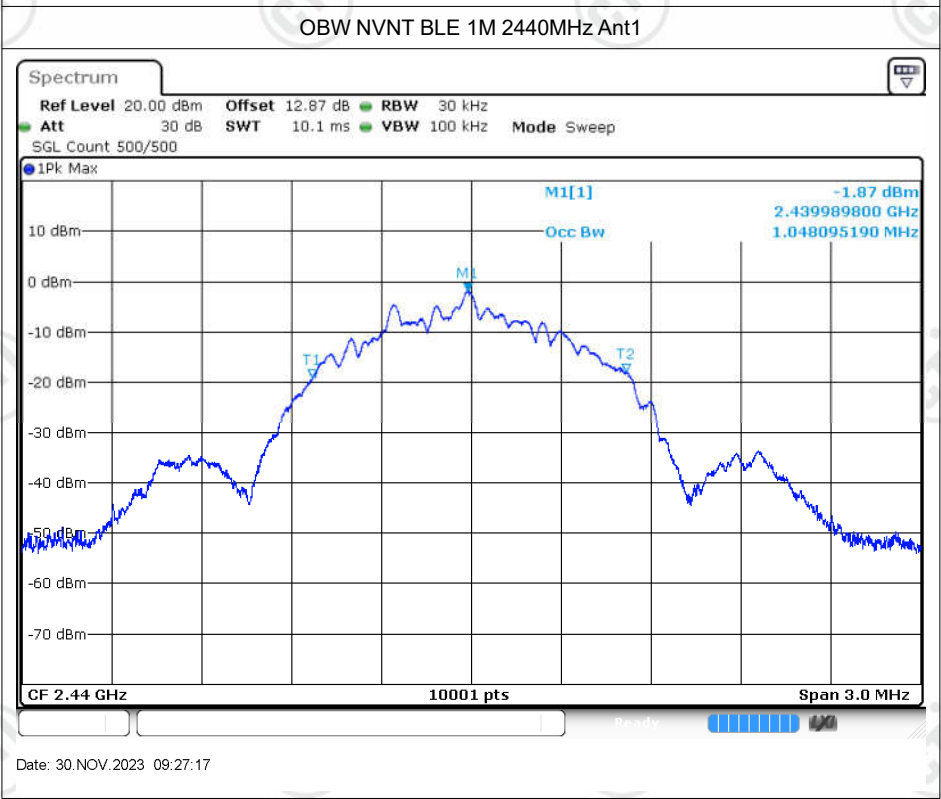
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Occupied Channel Bandwidth

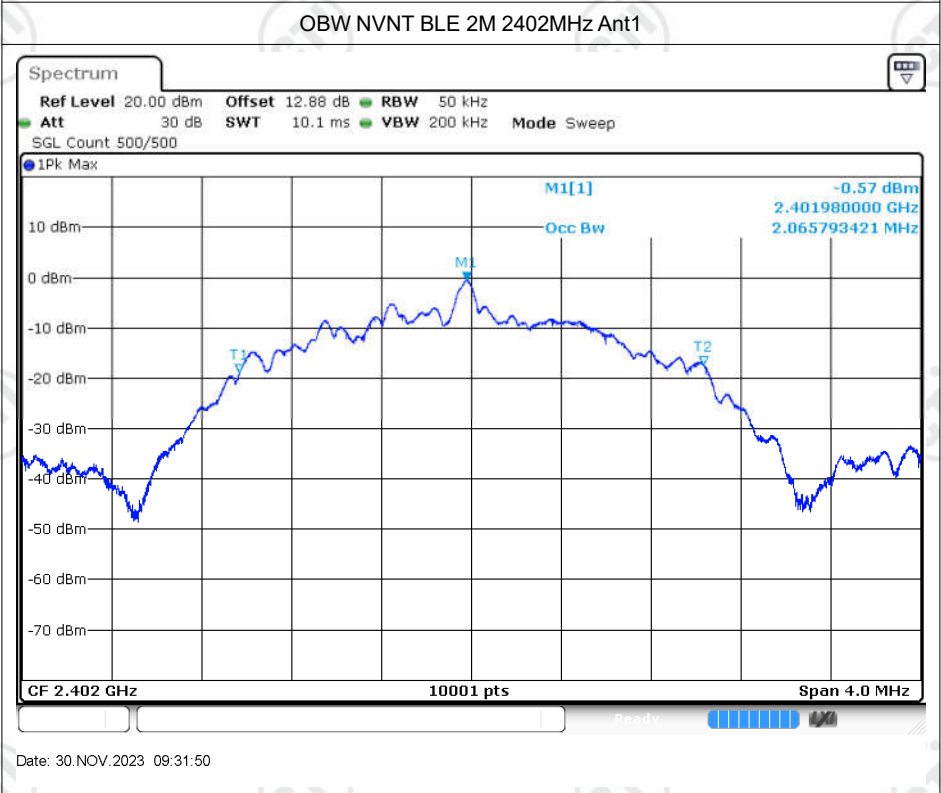
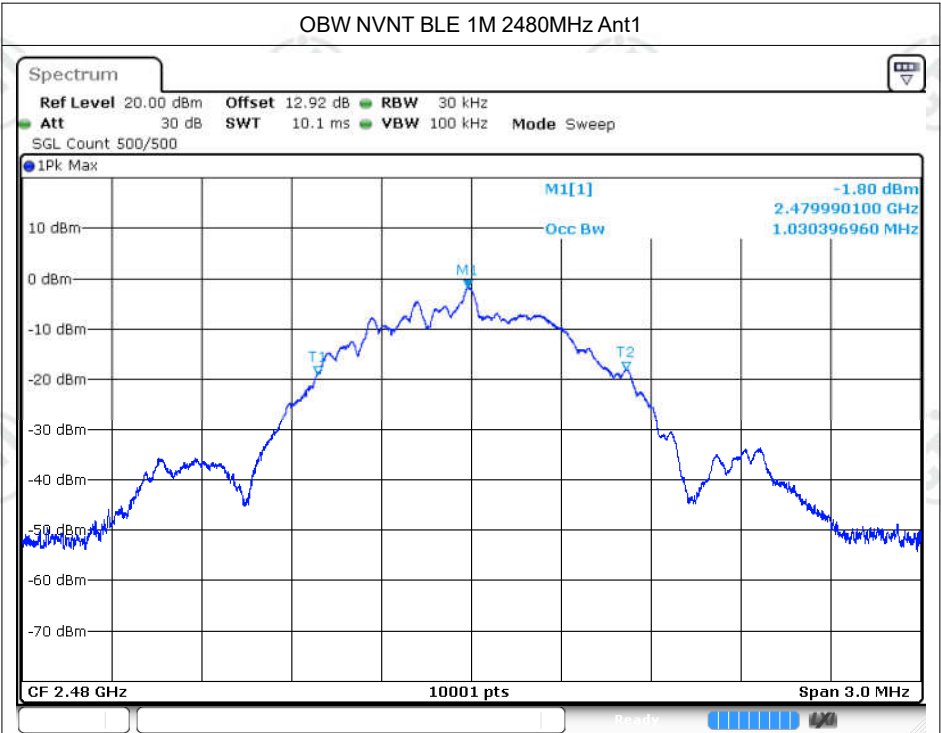
| Condition | Mode   | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|--------|-----------------|---------|---------------|
| NVNT      | BLE 1M | 2402            | Ant1    | 1.034         |
| NVNT      | BLE 1M | 2440            | Ant1    | 1.048         |
| NVNT      | BLE 1M | 2480            | Ant1    | 1.03          |
| NVNT      | BLE 2M | 2402            | Ant1    | 2.066         |
| NVNT      | BLE 2M | 2440            | Ant1    | 2.065         |
| NVNT      | BLE 2M | 2480            | Ant1    | 2.055         |

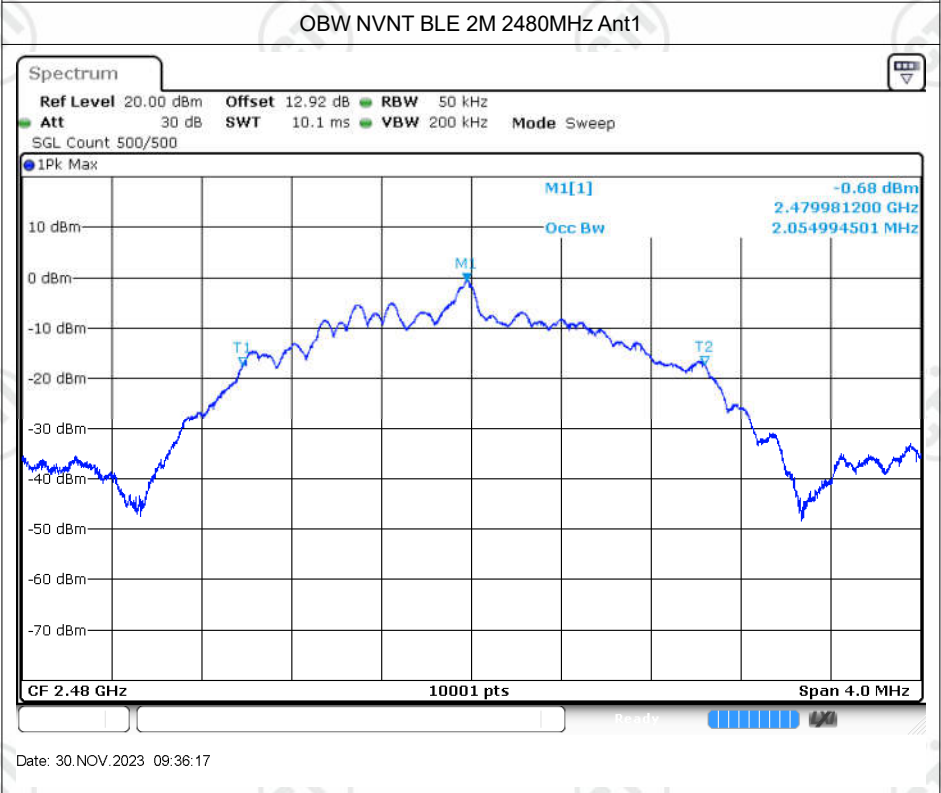
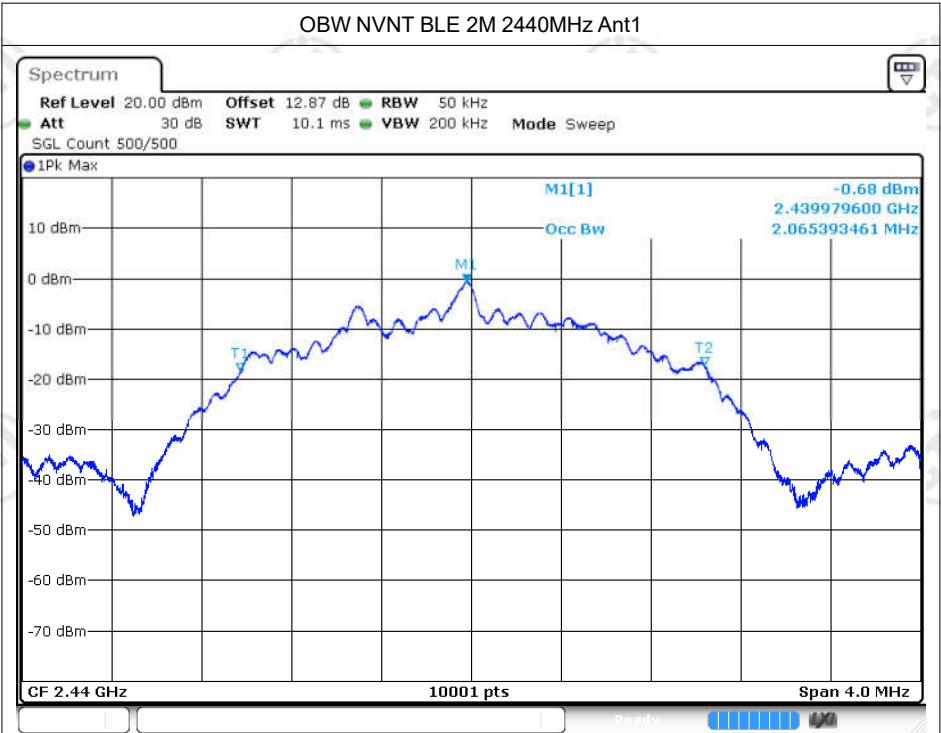


Date: 30.NOV.2023 09:24:21



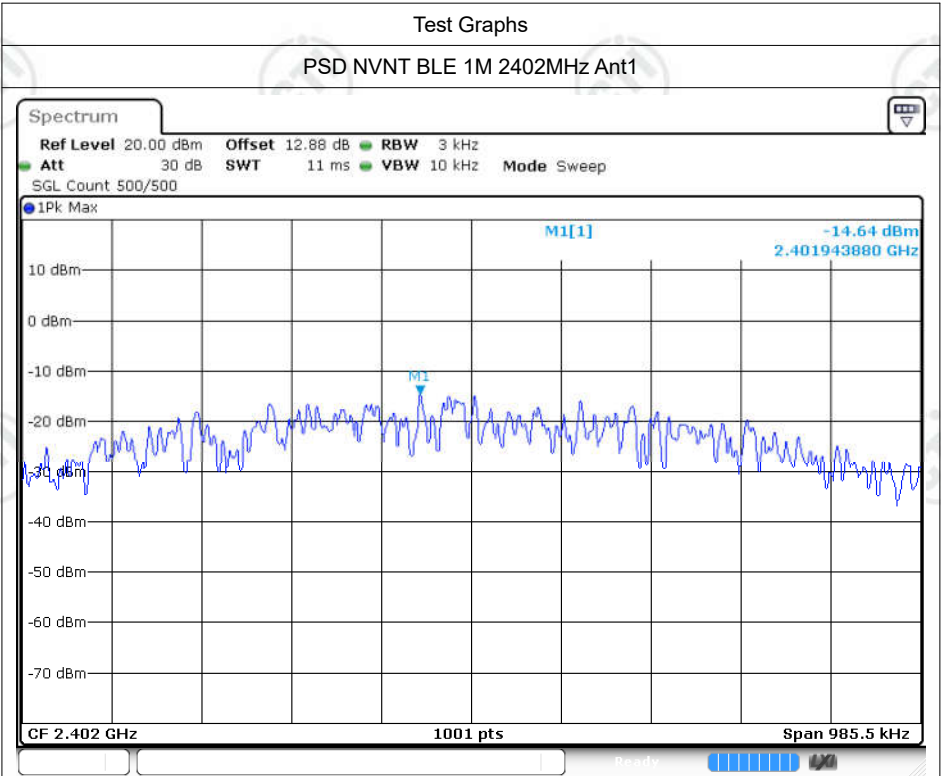
Date: 30.NOV.2023 09:27:17



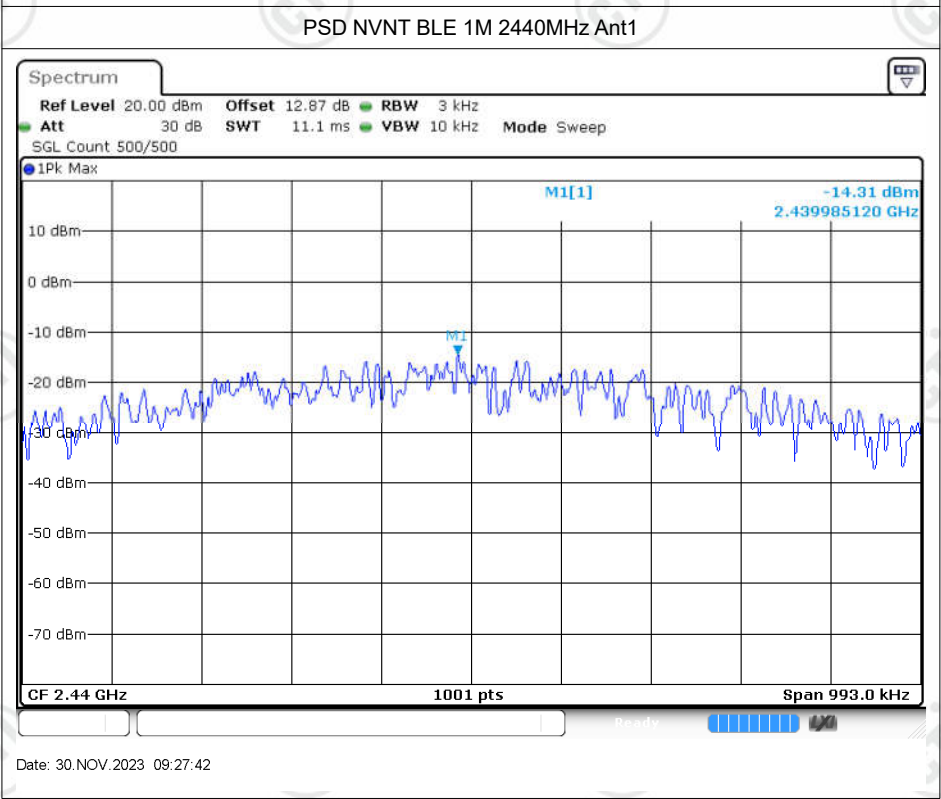


**Maximum Power Spectral Density Level**

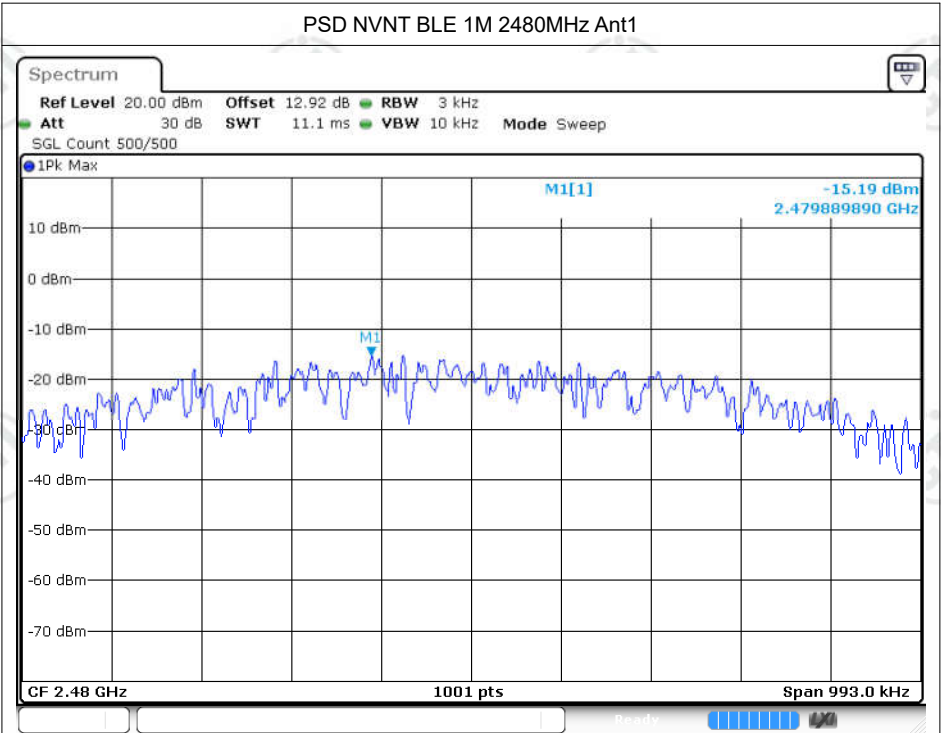
| Condition | Mode   | Frequency<br>(MHz) | Antenna | Conducted PSD<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Verdict |
|-----------|--------|--------------------|---------|-----------------------------|---------------------|---------|
| NVNT      | BLE 1M | 2402               | Ant1    | -14.64                      | 8                   | Pass    |
| NVNT      | BLE 1M | 2440               | Ant1    | -14.31                      | 8                   | Pass    |
| NVNT      | BLE 1M | 2480               | Ant1    | -15.19                      | 8                   | Pass    |
| NVNT      | BLE 2M | 2402               | Ant1    | -16.07                      | 8                   | Pass    |
| NVNT      | BLE 2M | 2440               | Ant1    | -14.87                      | 8                   | Pass    |
| NVNT      | BLE 2M | 2480               | Ant1    | -16.54                      | 8                   | Pass    |



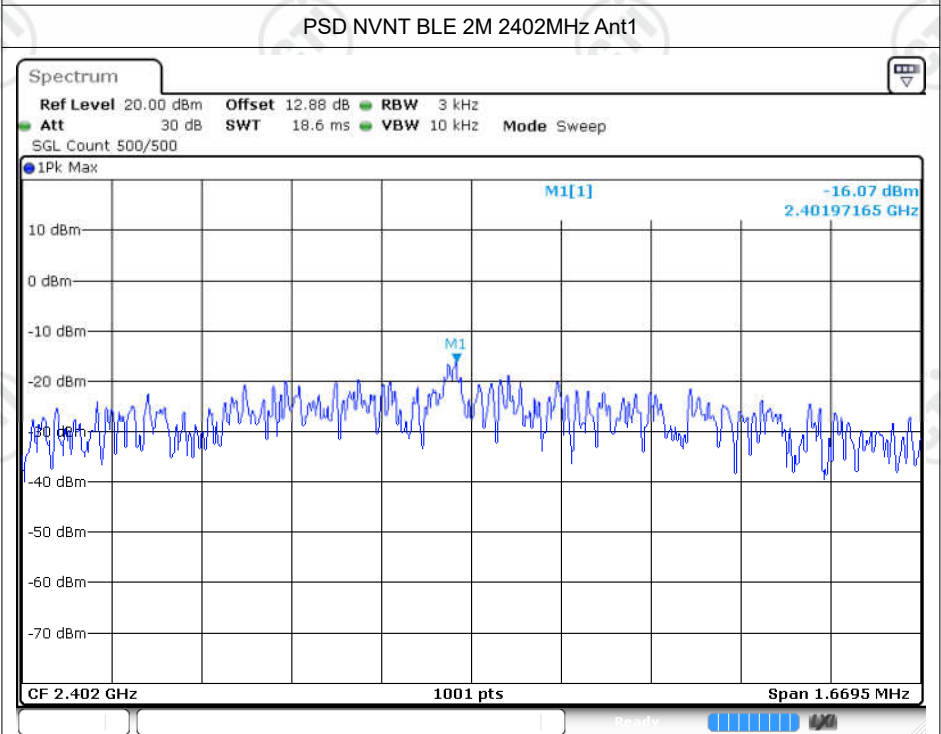
Date: 30.NOV.2023 09:24:46



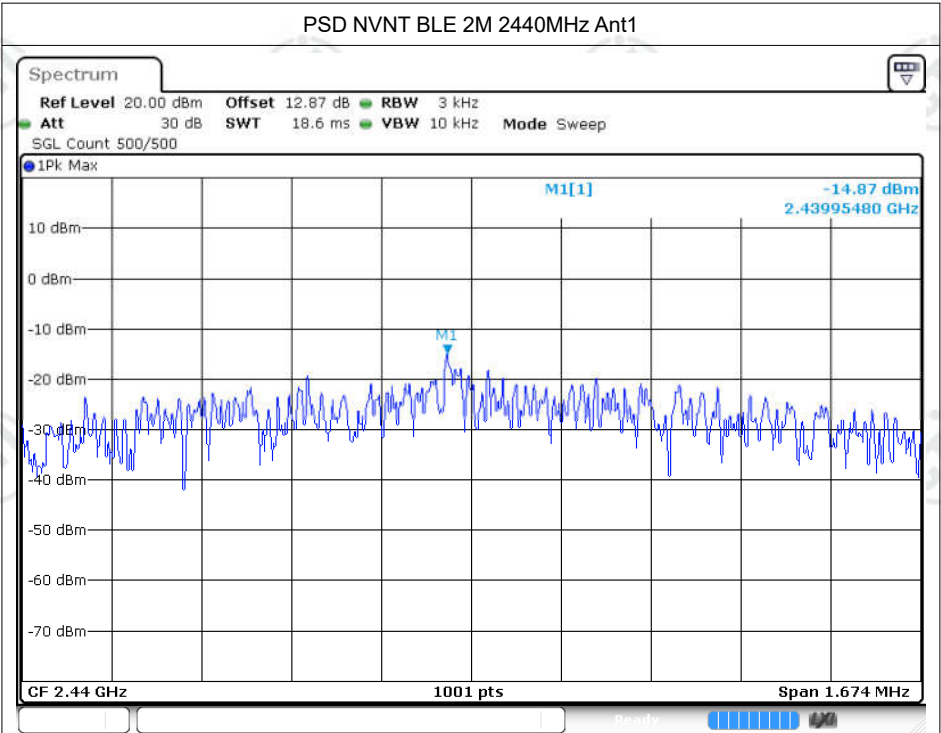
Date: 30.NOV.2023 09:27:42



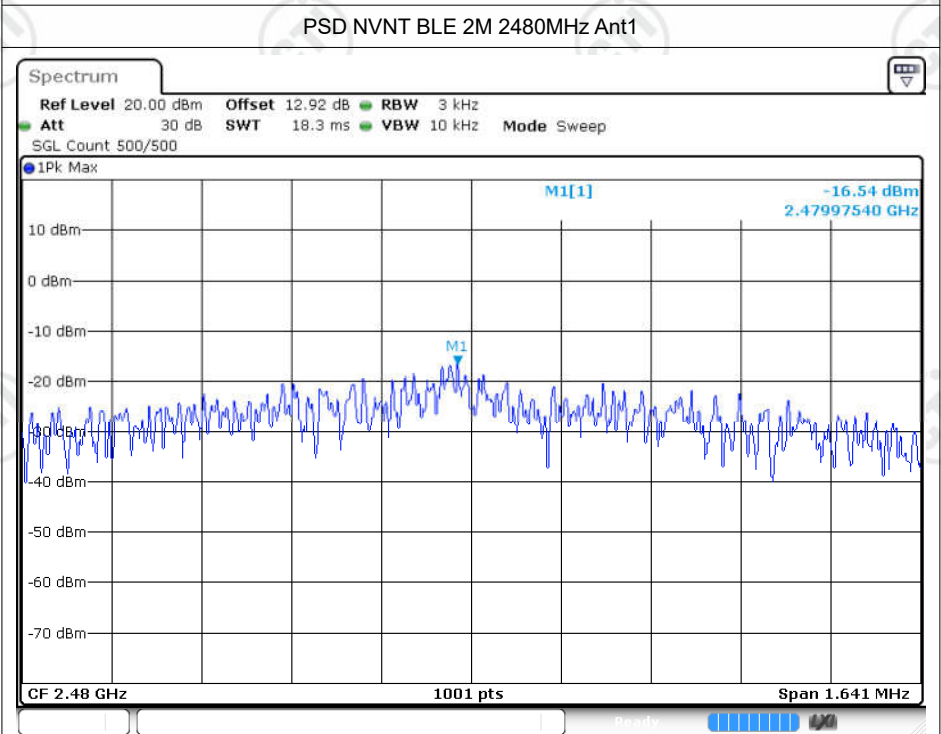
Date: 30.NOV.2023 09:29:24



Date: 30.NOV.2023 09:32:23



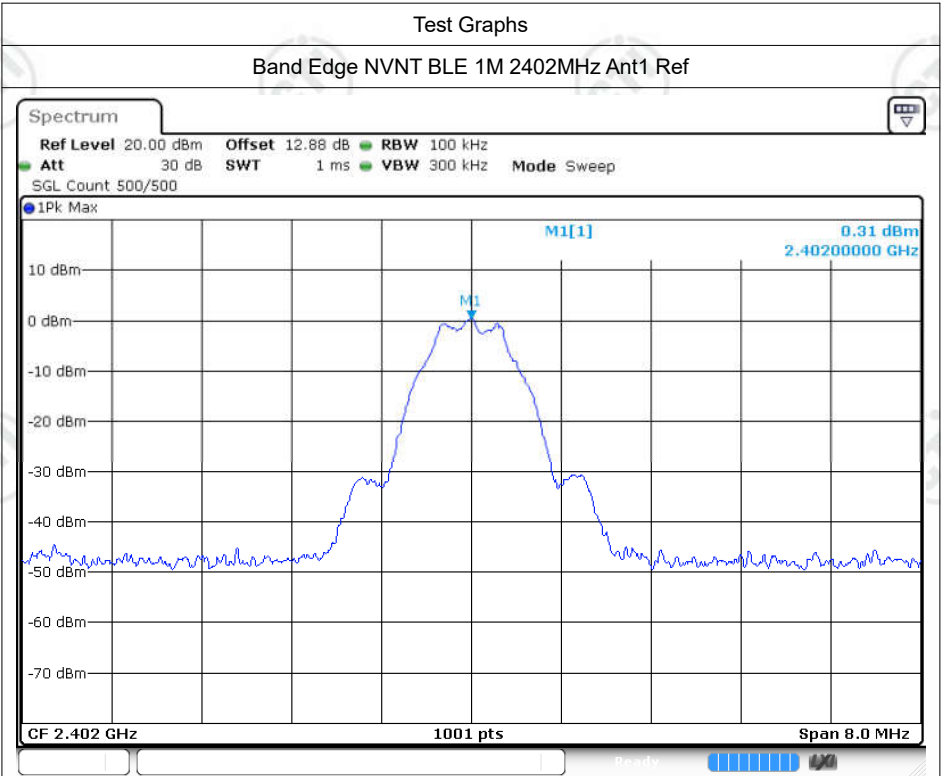
Date: 30.NOV.2023 09:34:05



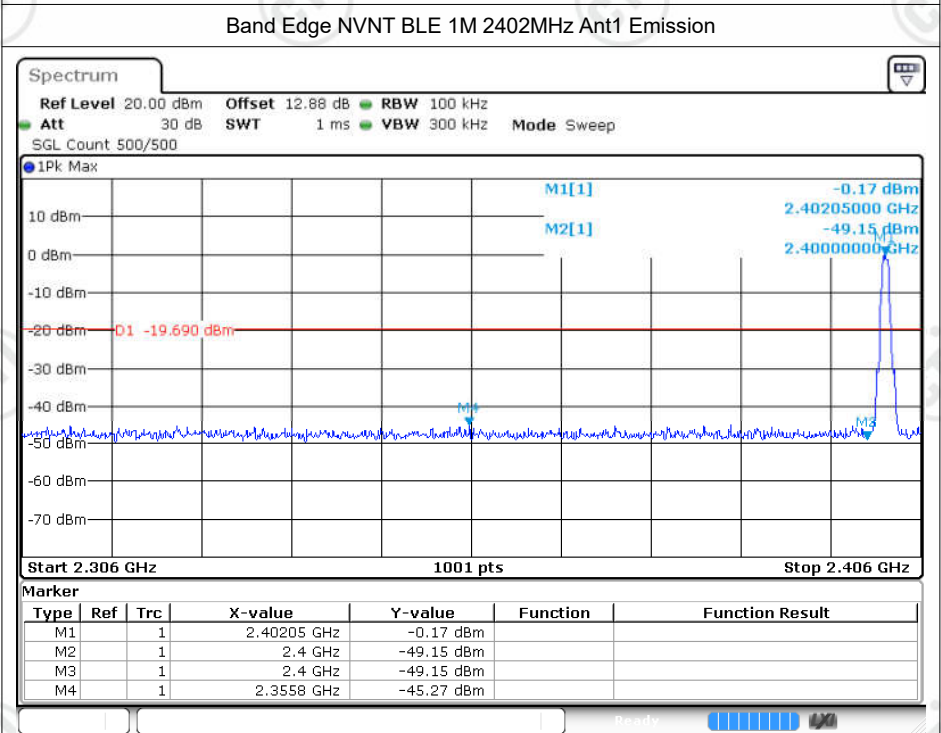
Date: 30.NOV.2023 09:36:49

Band Edge

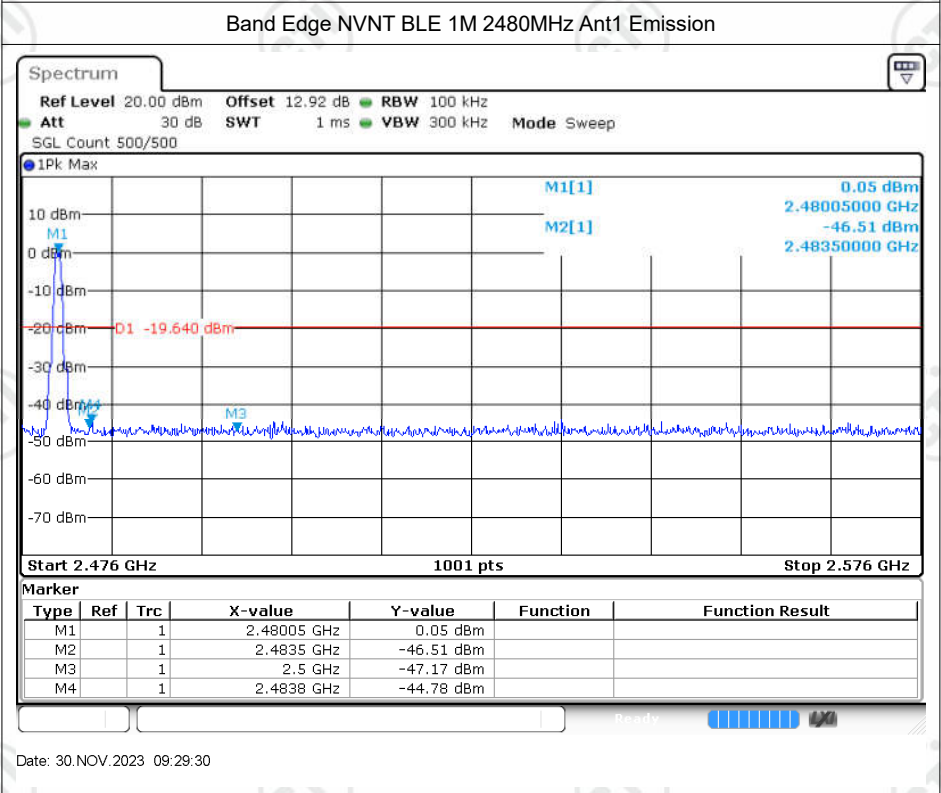
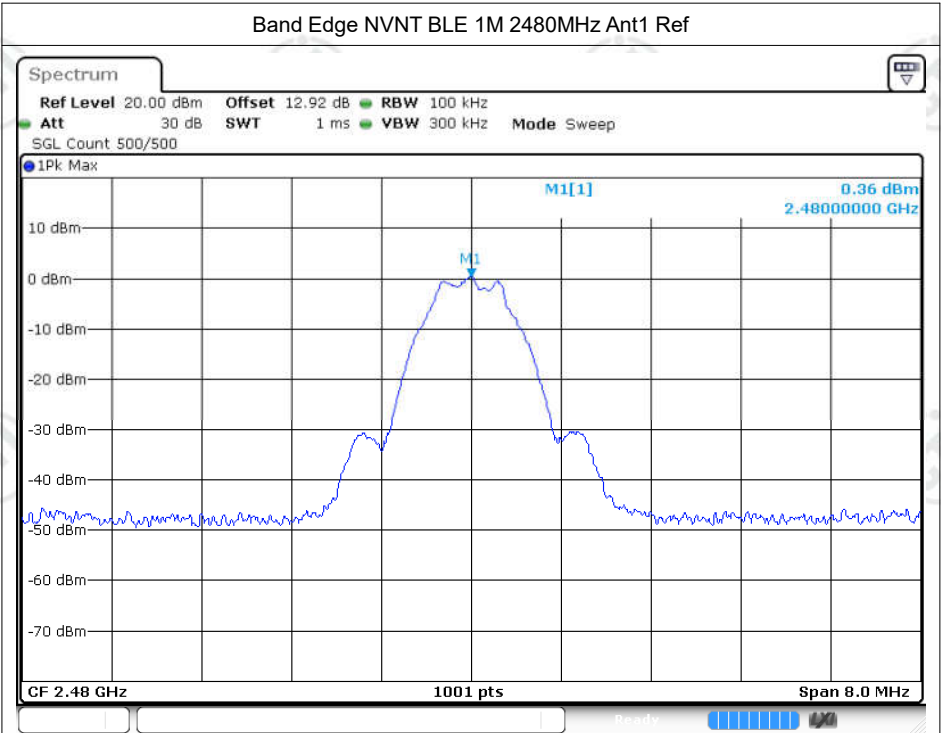
| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -45.57          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -45.14          | -20         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -33.59          | -20         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -45.32          | -20         | Pass    |

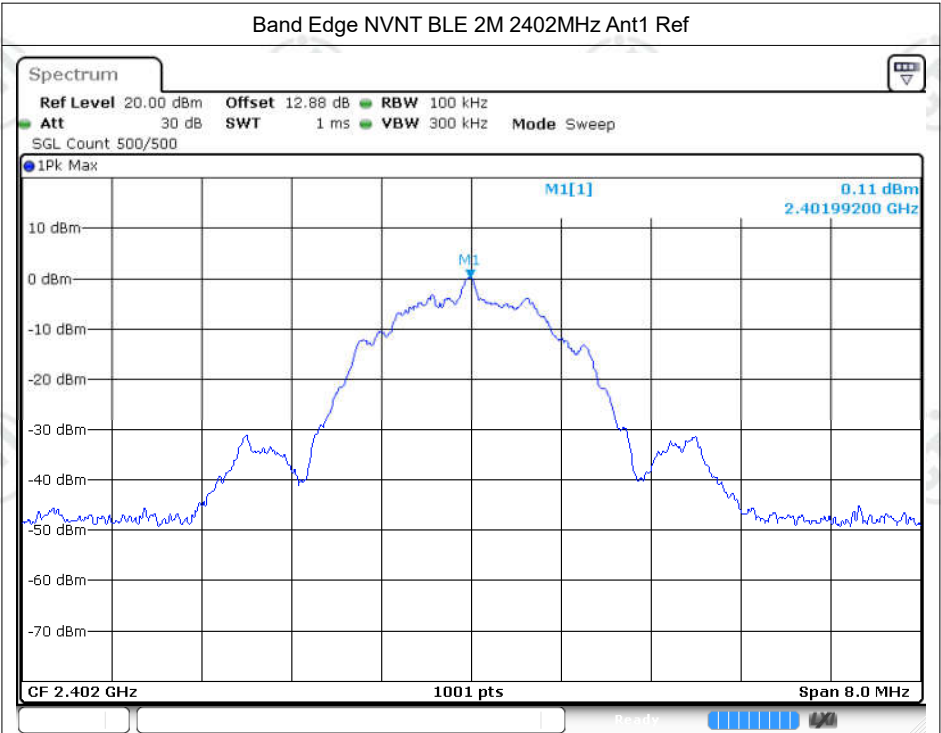


Date: 30.NOV.2023 09:24:49

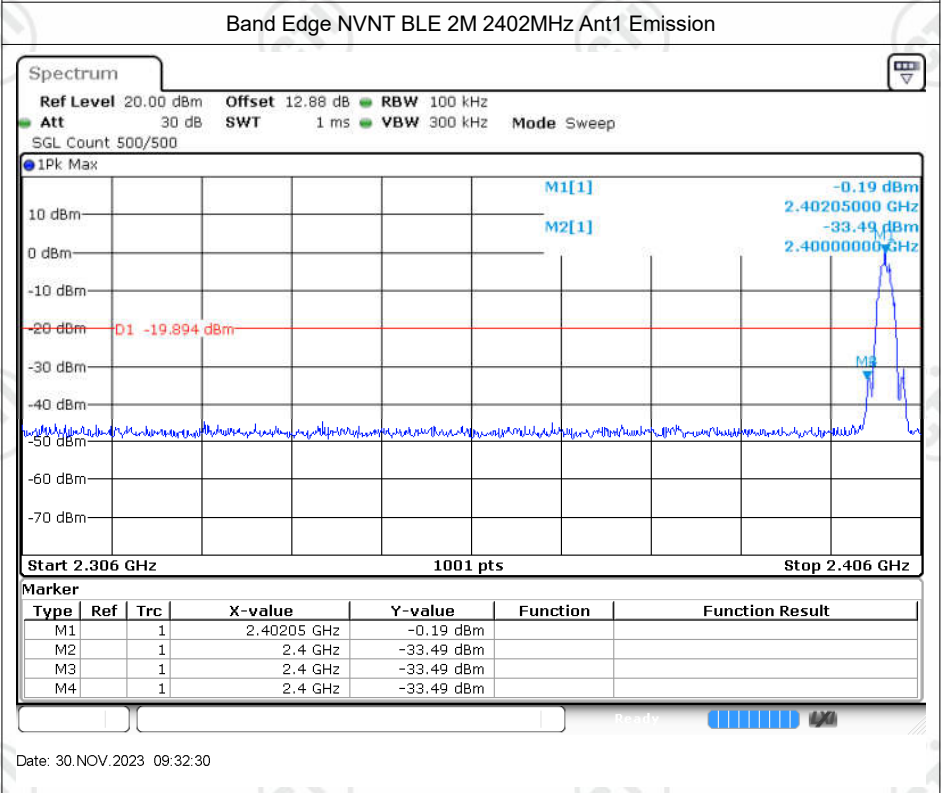


Date: 30.NOV.2023 09:24:53

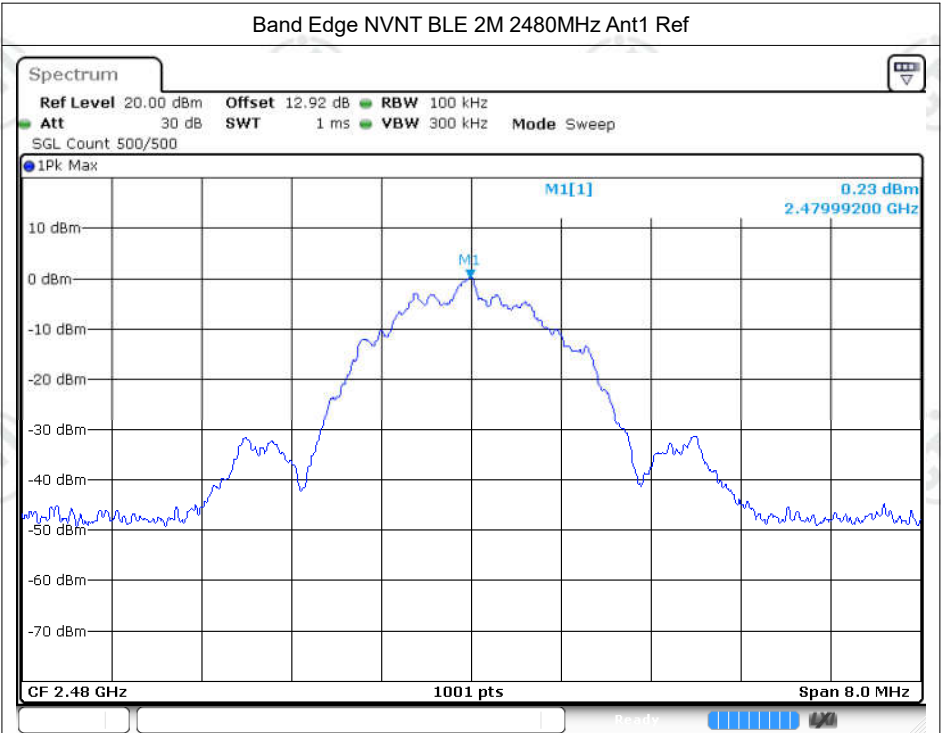




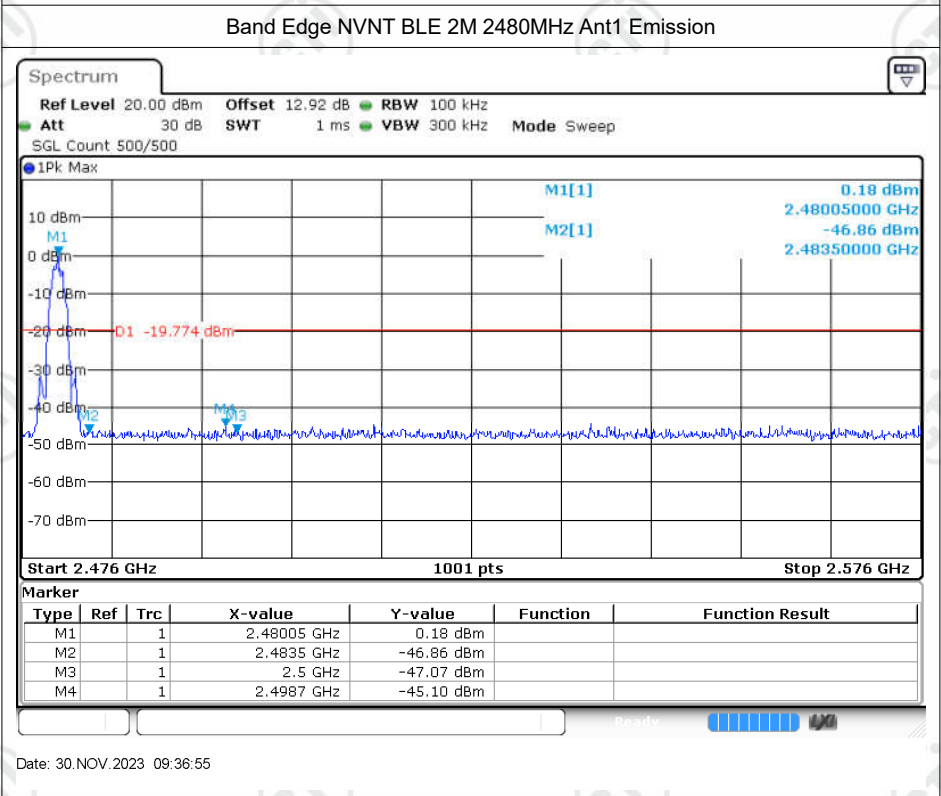
Date: 30.NOV.2023 09:32:26



Date: 30.NOV.2023 09:32:30



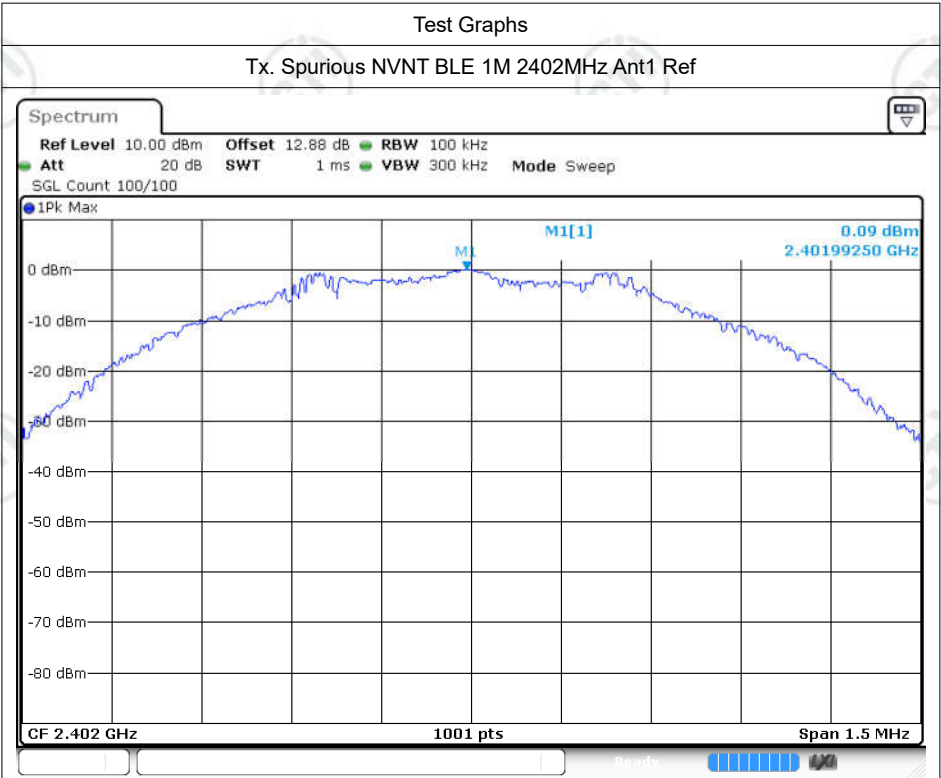
Date: 30.NOV.2023 09:36:53



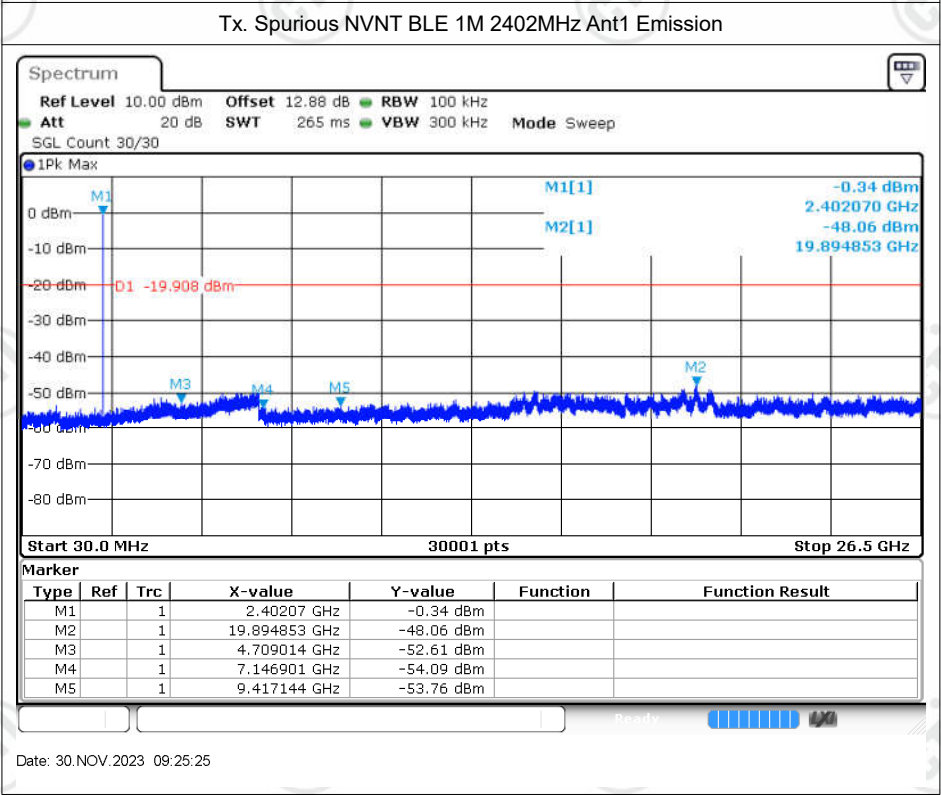
Date: 30.NOV.2023 09:36:55

Conducted RF Spurious Emission

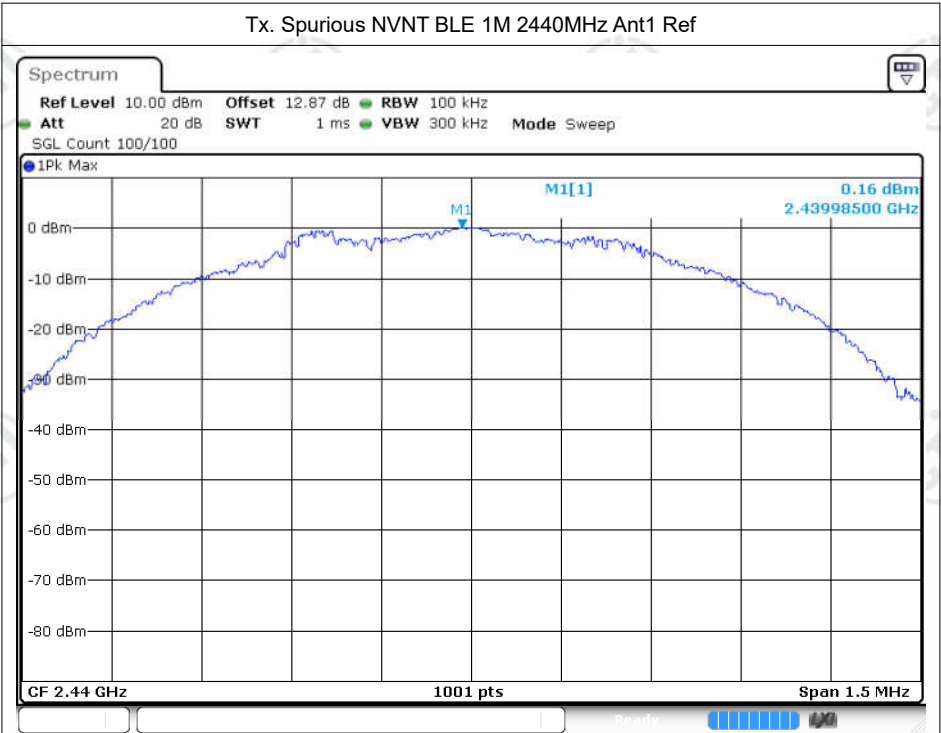
| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -48.15          | -20         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -48.73          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -48.56          | -20         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -48.55          | -20         | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | -48.91          | -20         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -48.62          | -20         | Pass    |



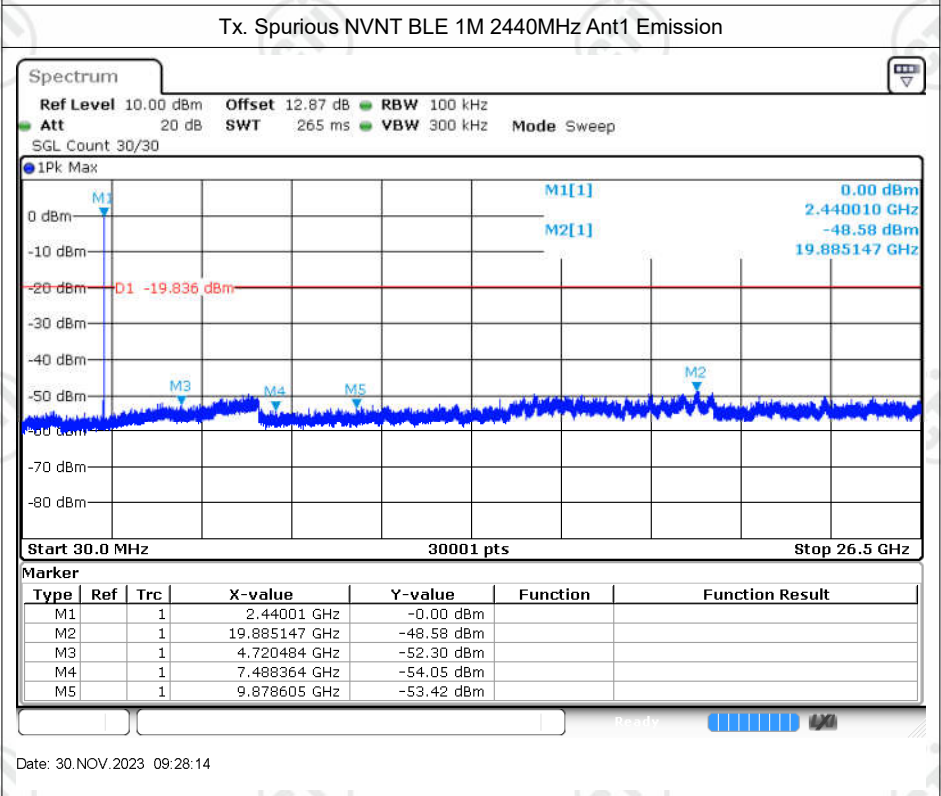
Date: 30.NOV.2023 09:24:56

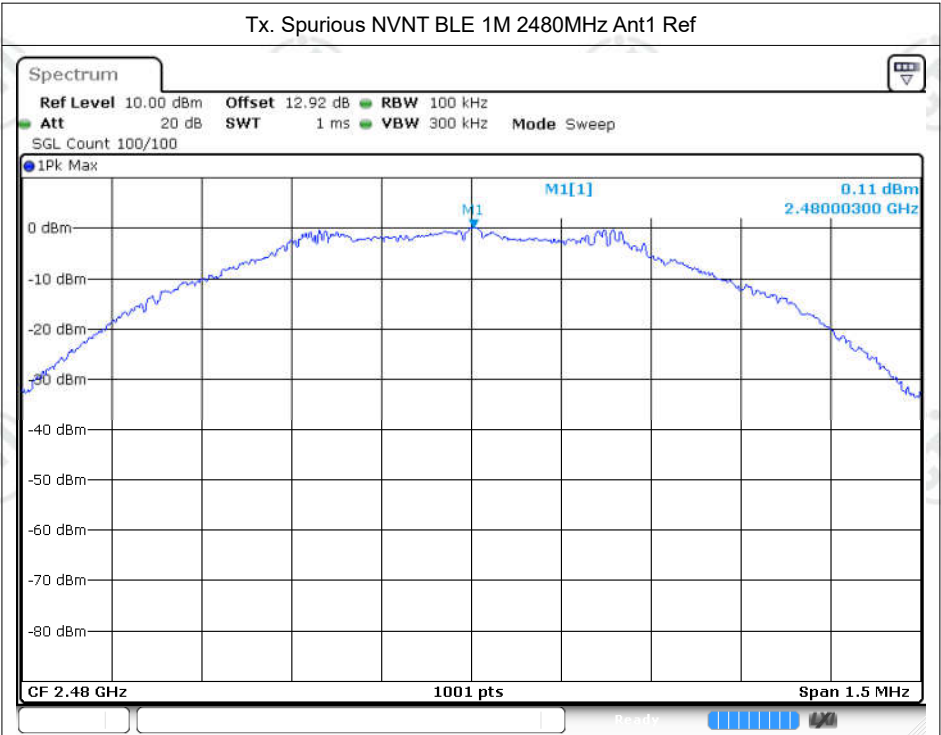


Date: 30.NOV.2023 09:25:25

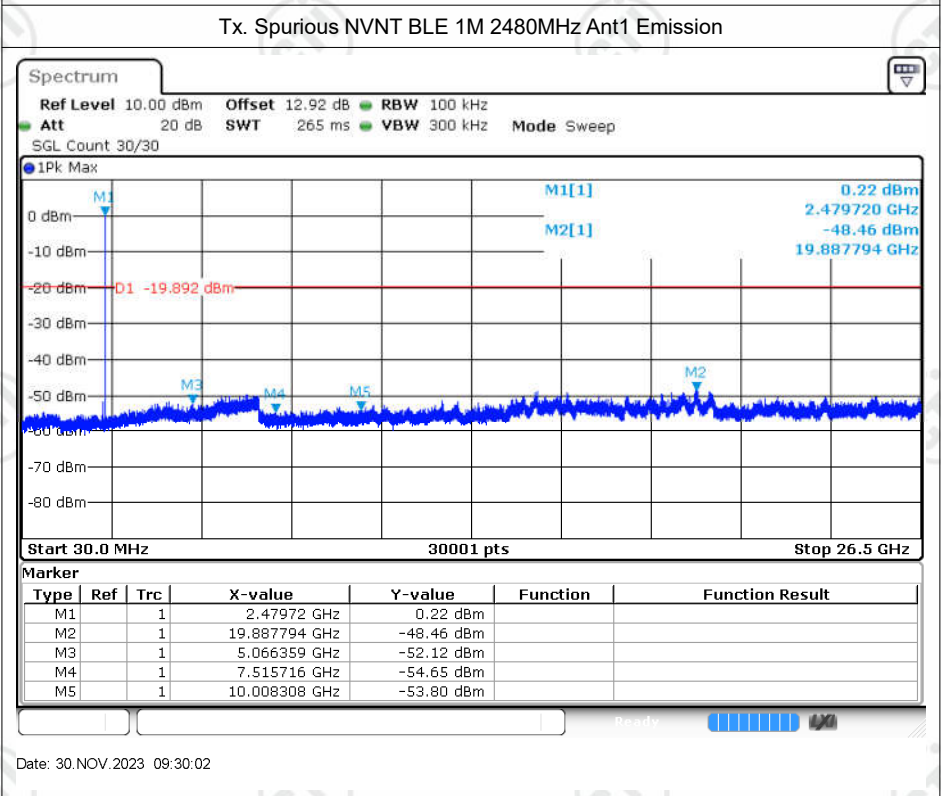


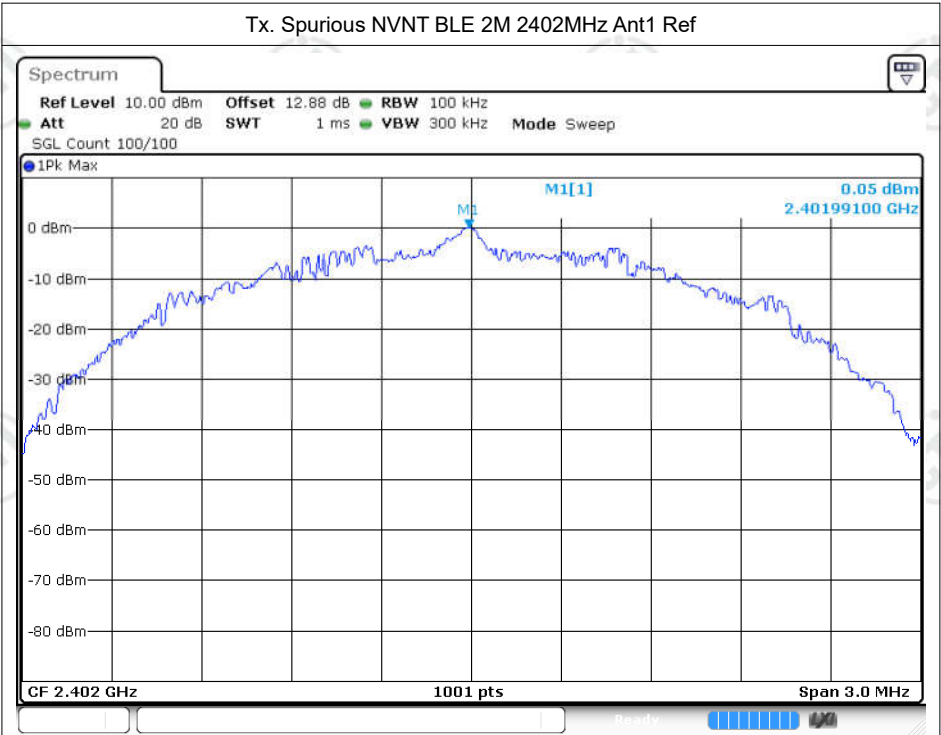
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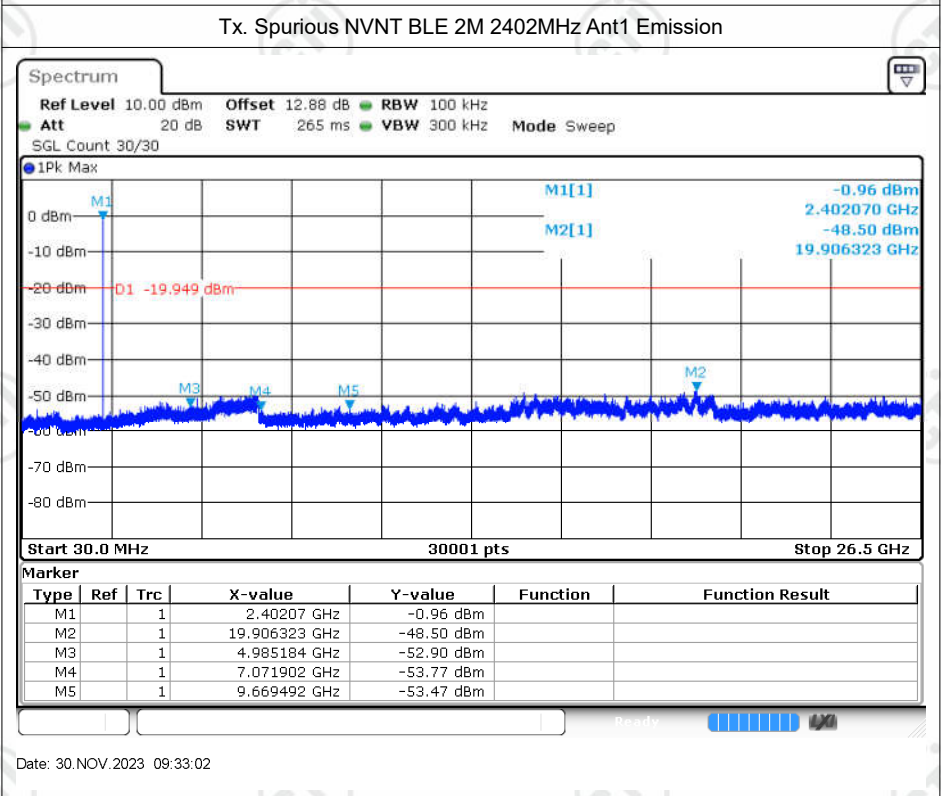


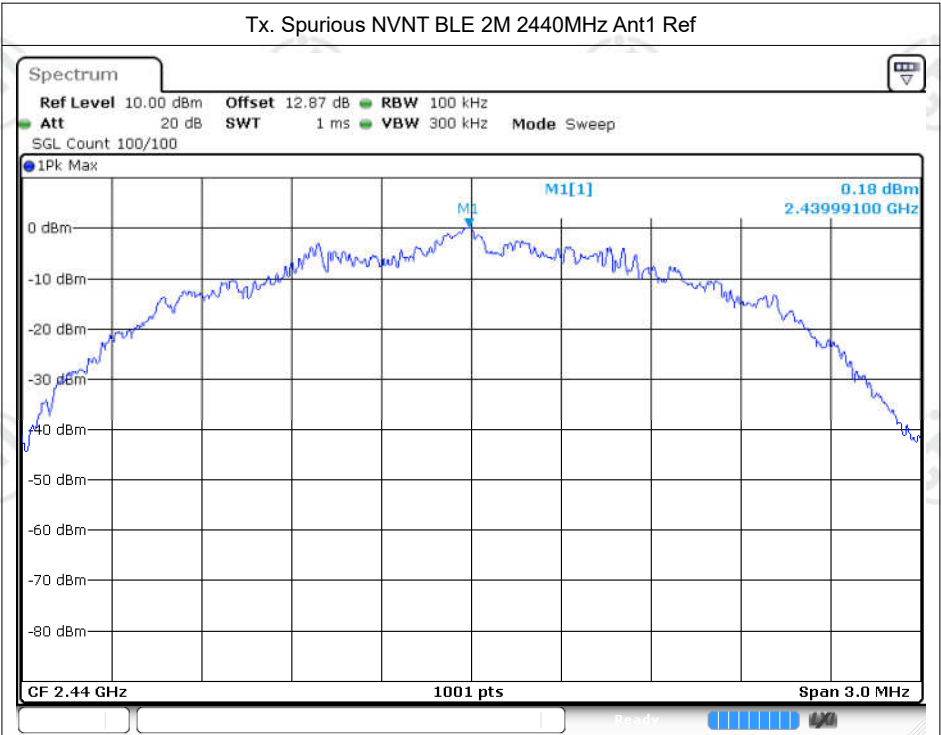
Date: 30.NOV.2023 09:29:33



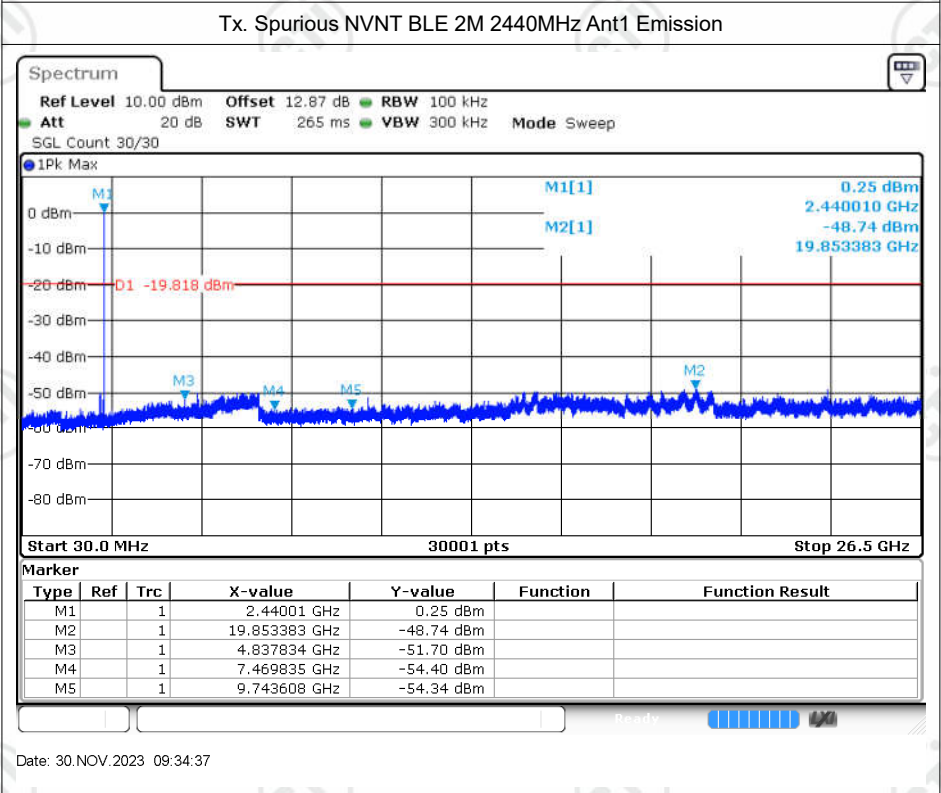


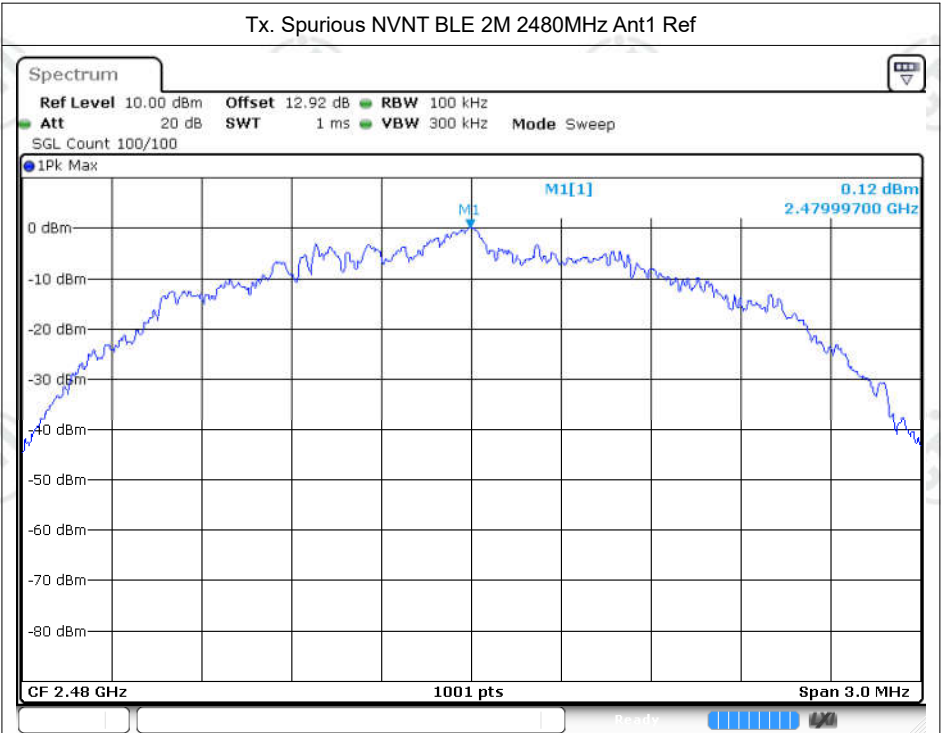
Date: 30.NOV.2023 09:32:33



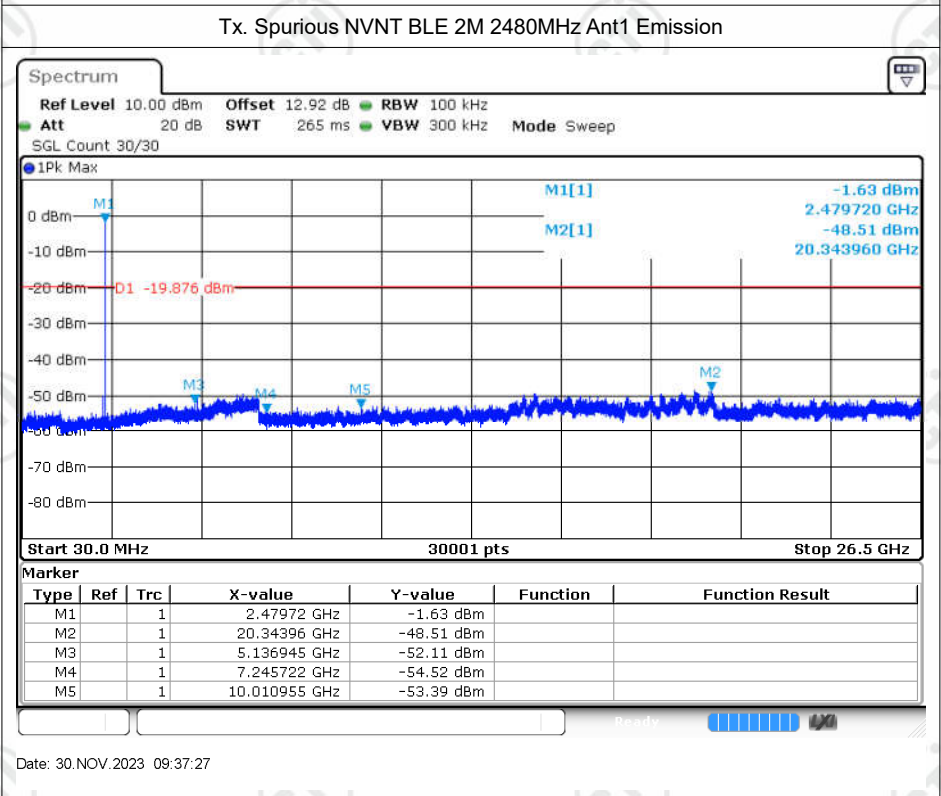


Date: 30.NOV.2023 09:34:07





Date: 30.NOV.2023 09:36:58



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