

## Appendix: Bluetooth LE

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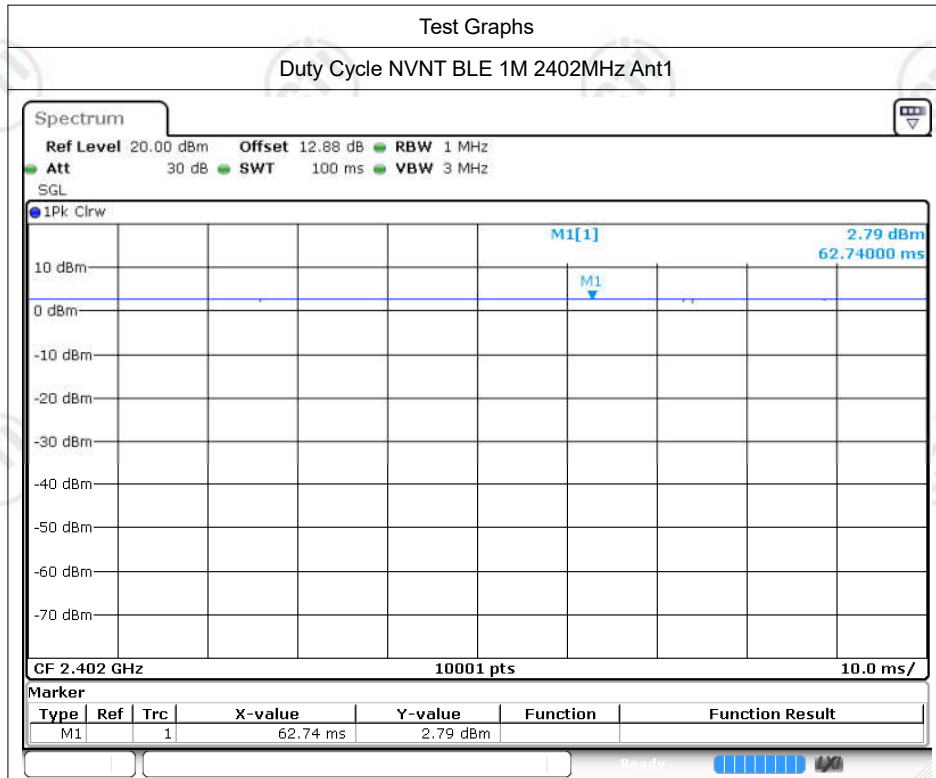
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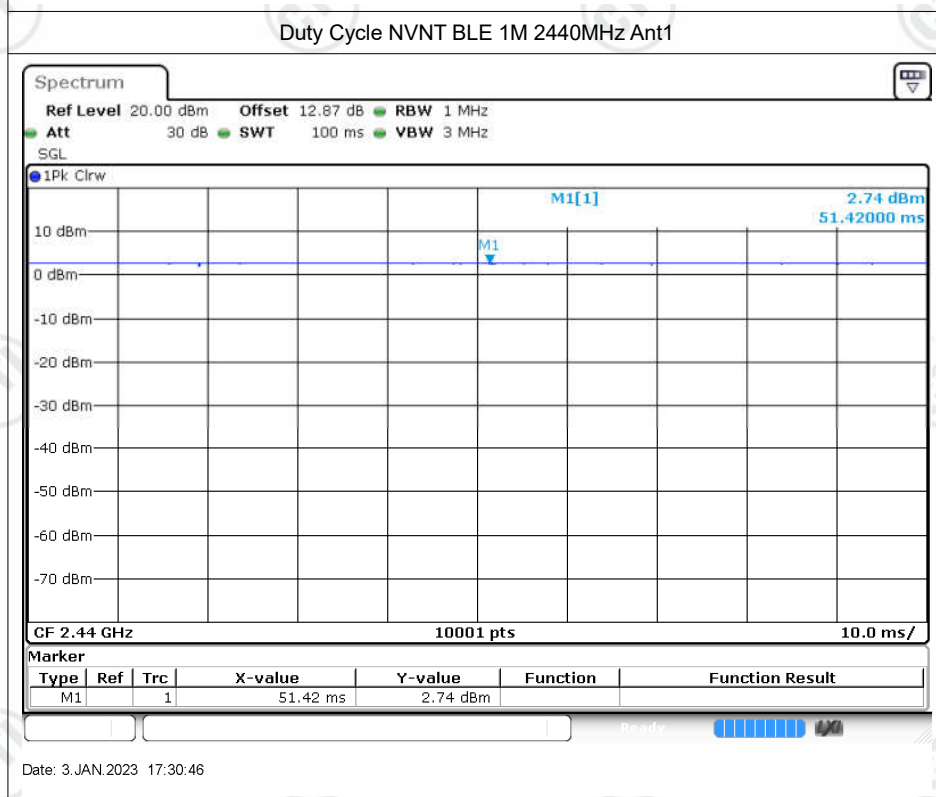
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Duty Cycle

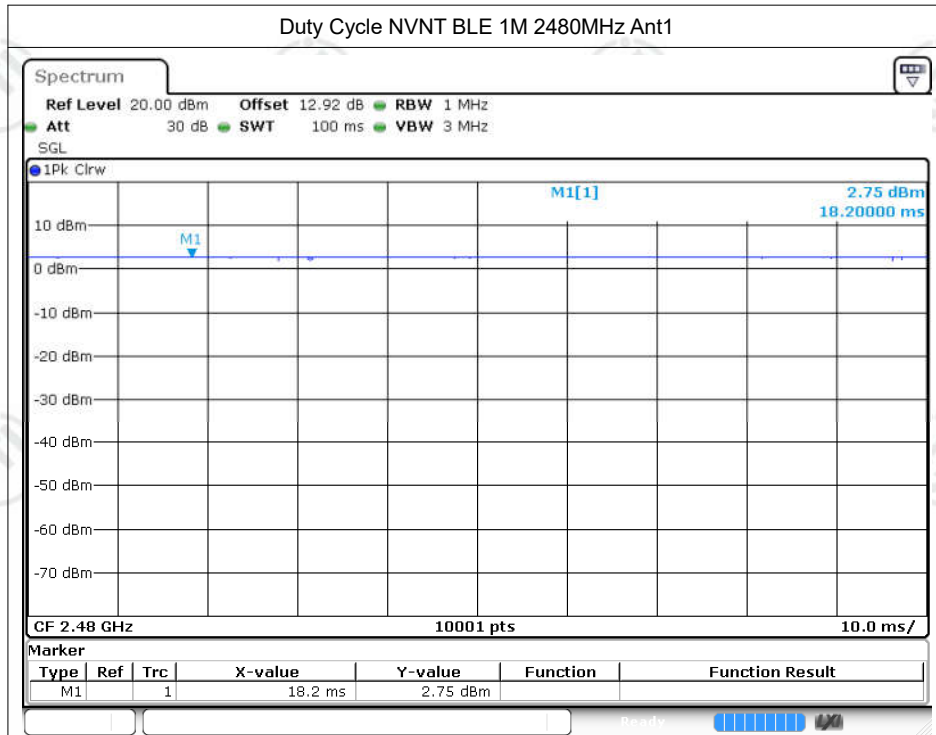
| Condition | Mode   | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|--------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | BLE 1M | 2402            | Ant1    | 100            | 0                      | 0         |
| NVNT      | BLE 1M | 2440            | Ant1    | 100            | 0                      | 0         |
| NVNT      | BLE 1M | 2480            | Ant1    | 100            | 0                      | 0         |
| NVNT      | BLE 2M | 2402            | Ant1    | 100            | 0                      | 0         |
| NVNT      | BLE 2M | 2440            | Ant1    | 100            | 0                      | 0         |
| NVNT      | BLE 2M | 2480            | Ant1    | 100            | 0                      | 0         |



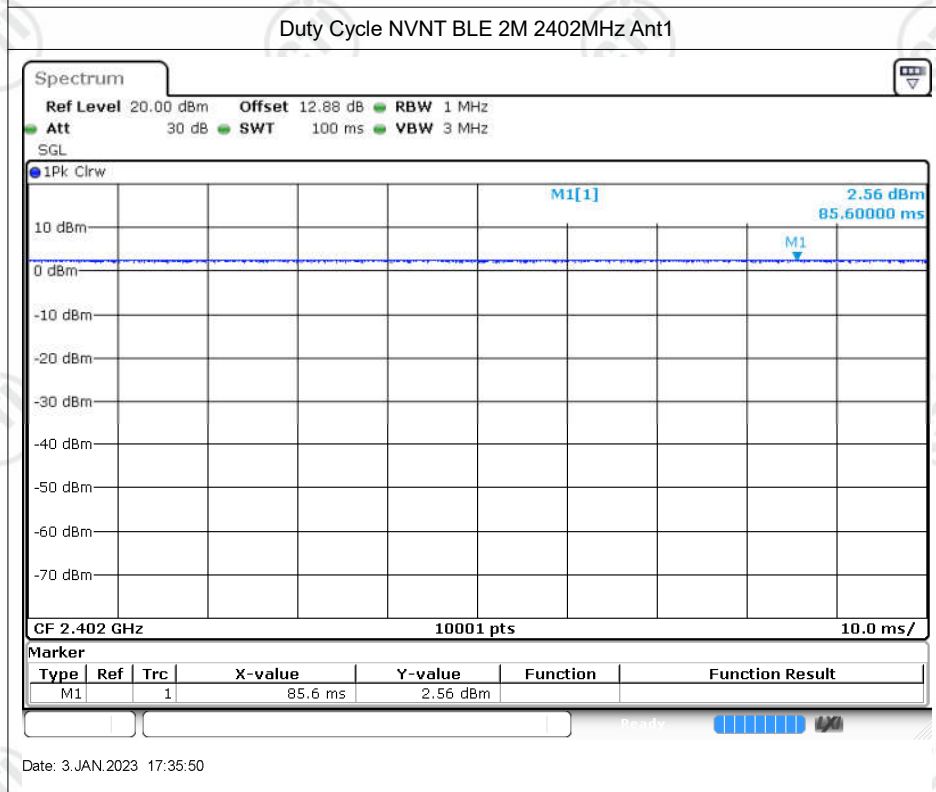
Date: 3 JAN 2023 17:27:00



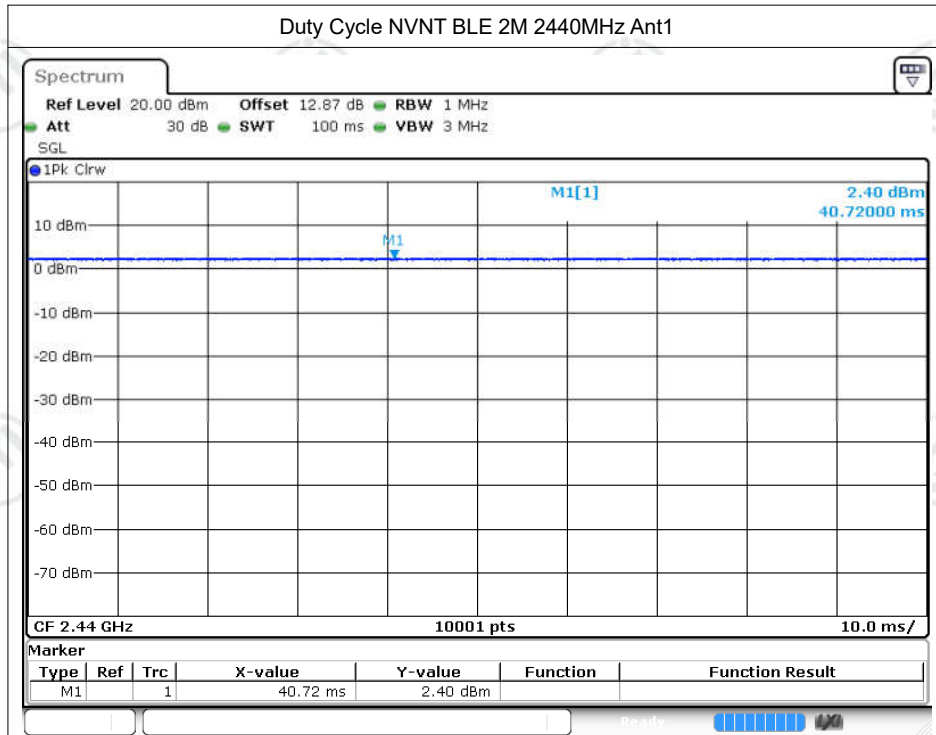
Date: 3 JAN 2023 17:30:46



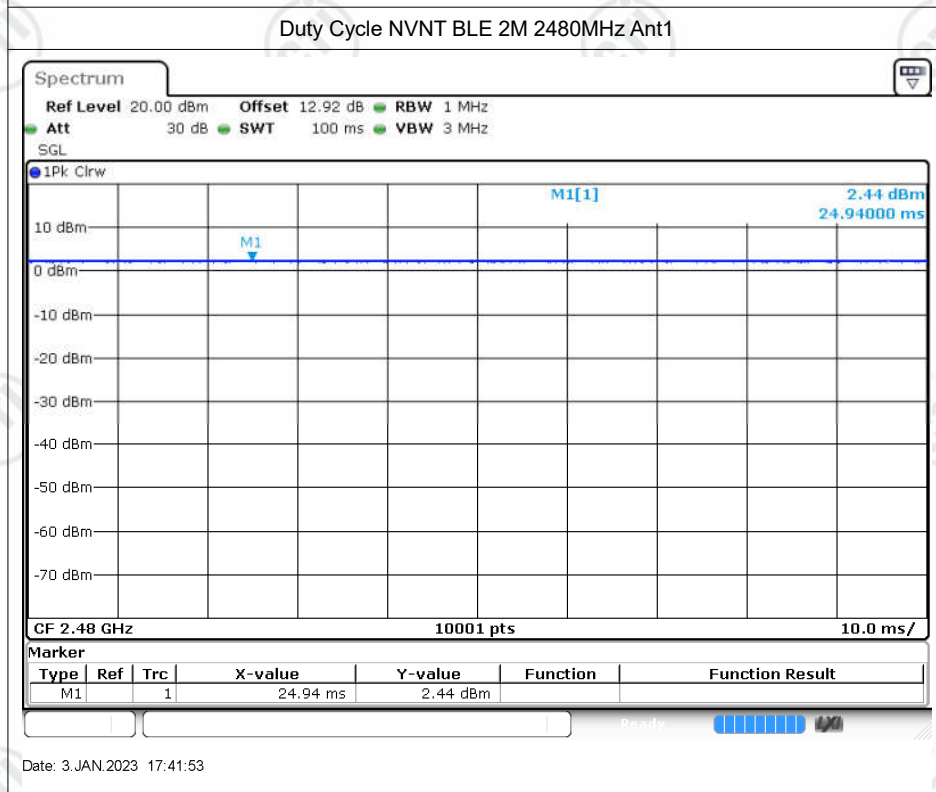
Date: 3.JAN.2023 17:33:18



Date: 3.JAN.2023 17:35:50



Date: 3.JAN.2023 17:38:56

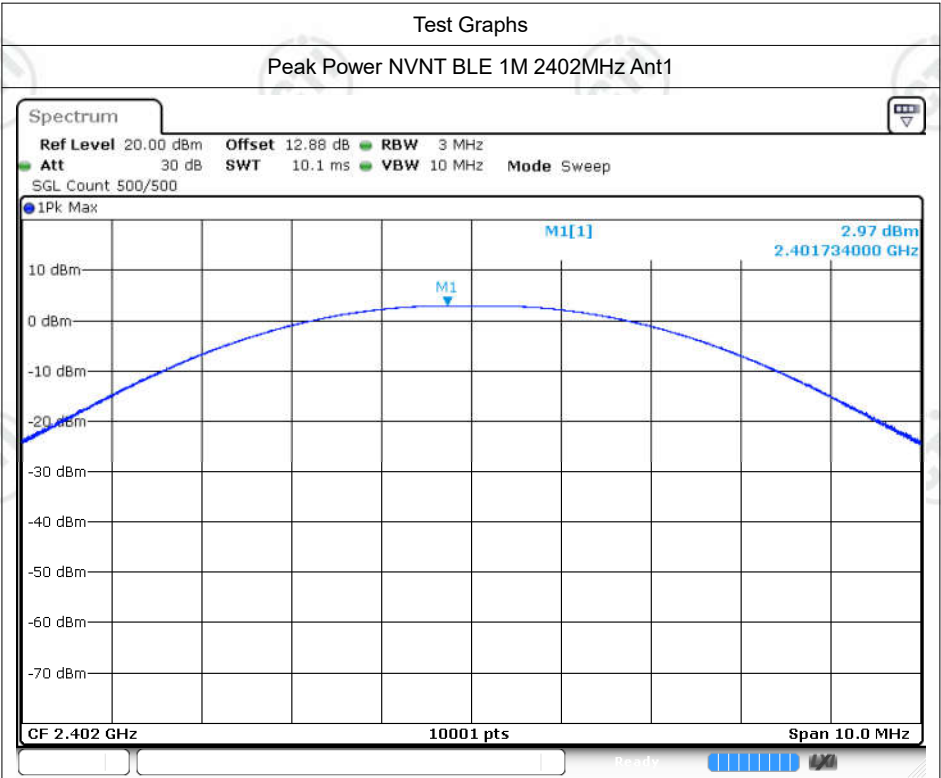


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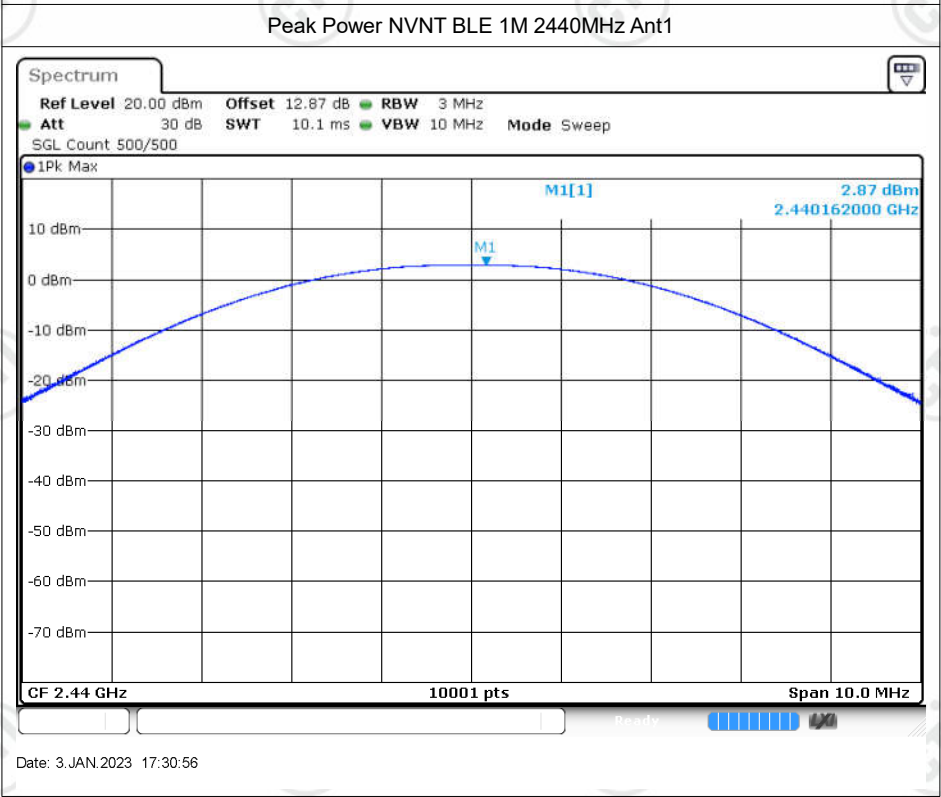
Maximum Peak Conducted Output Power

| Condition | Mode   | Frequency<br>(MHz) | Antenna | Conducted Power<br>(dBm) | Limit<br>(dBm) | Verdict |
|-----------|--------|--------------------|---------|--------------------------|----------------|---------|
| NVNT      | BLE 1M | 2402               | Ant1    | 2.97                     | 30             | Pass    |
| NVNT      | BLE 1M | 2440               | Ant1    | 2.87                     | 30             | Pass    |
| NVNT      | BLE 1M | 2480               | Ant1    | 2.91                     | 30             | Pass    |
| NVNT      | BLE 2M | 2402               | Ant1    | 2.96                     | 30             | Pass    |
| NVNT      | BLE 2M | 2440               | Ant1    | 2.82                     | 30             | Pass    |
| NVNT      | BLE 2M | 2480               | Ant1    | 2.81                     | 30             | Pass    |



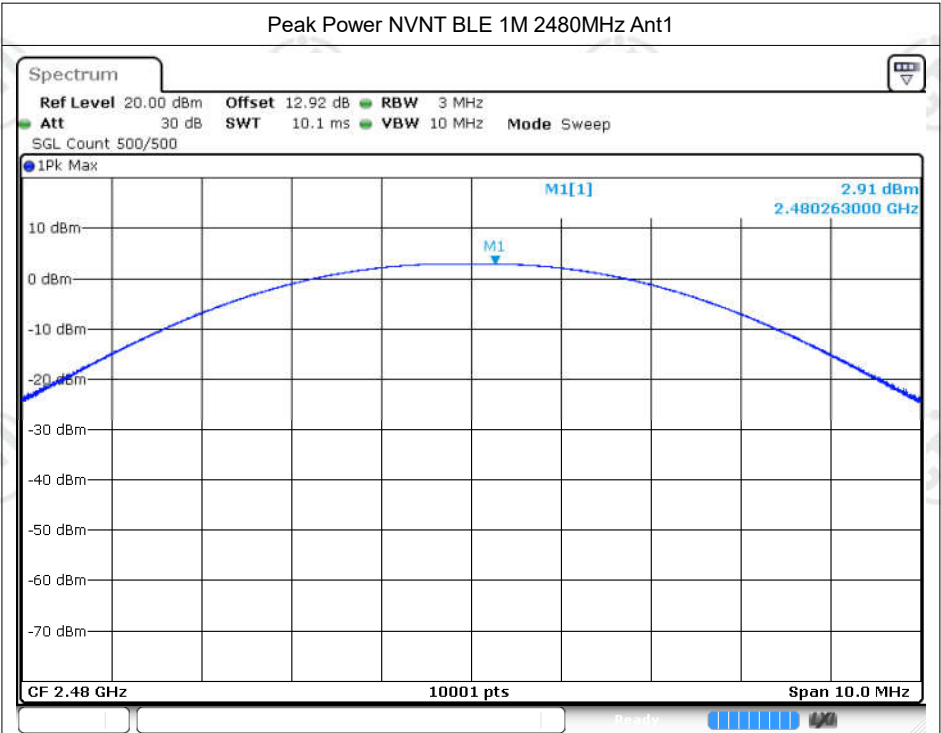


Date: 3.JAN.2023 17:27:11

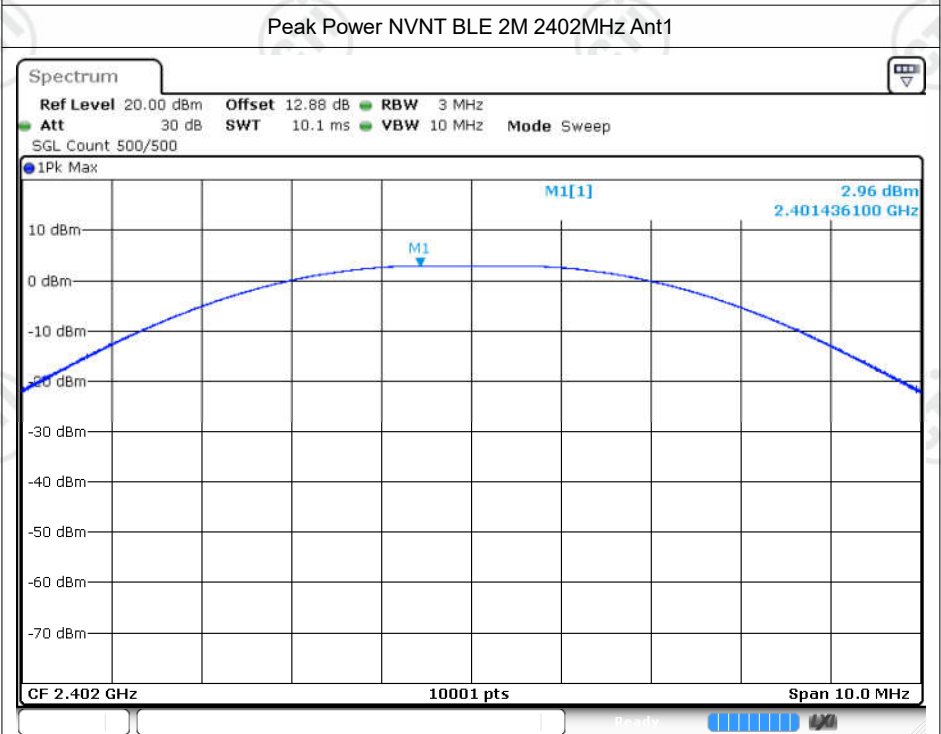


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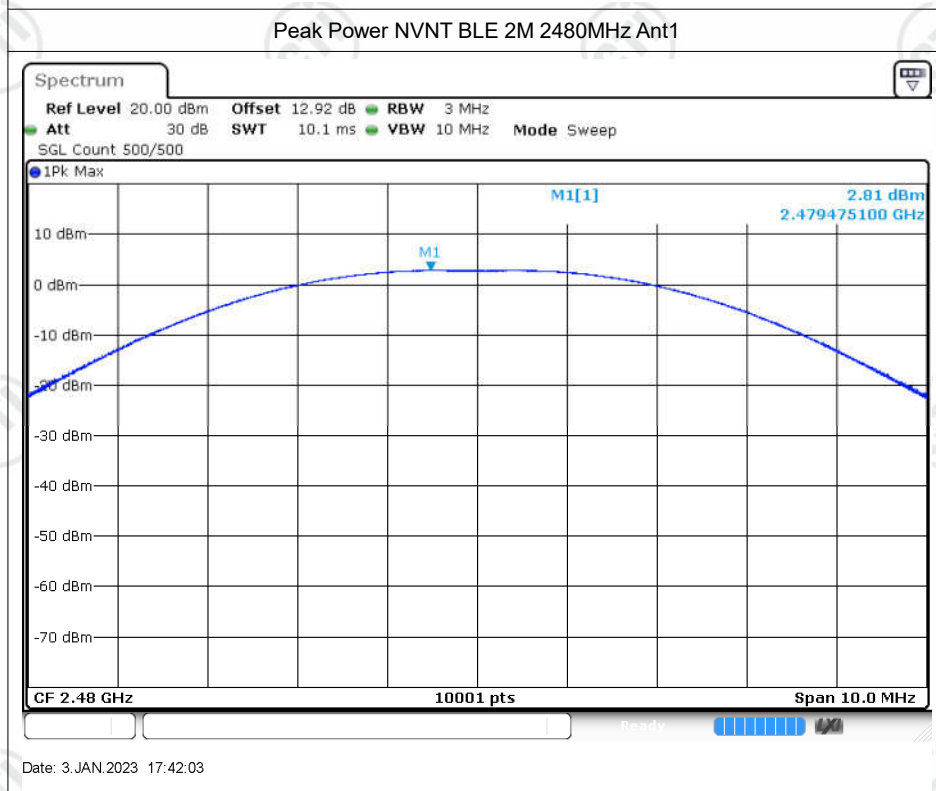
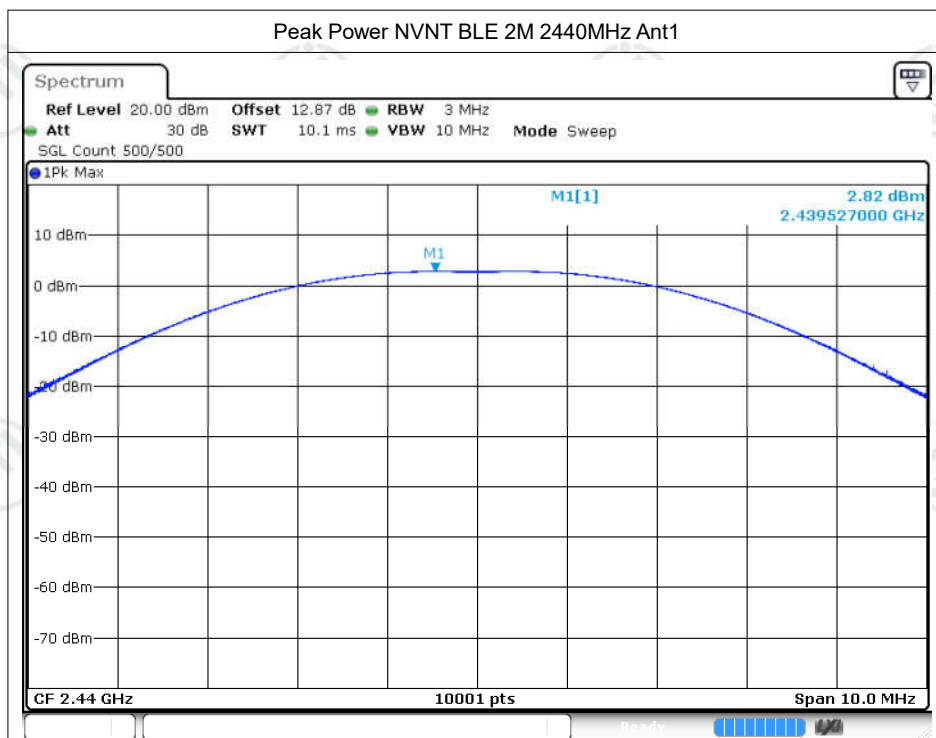




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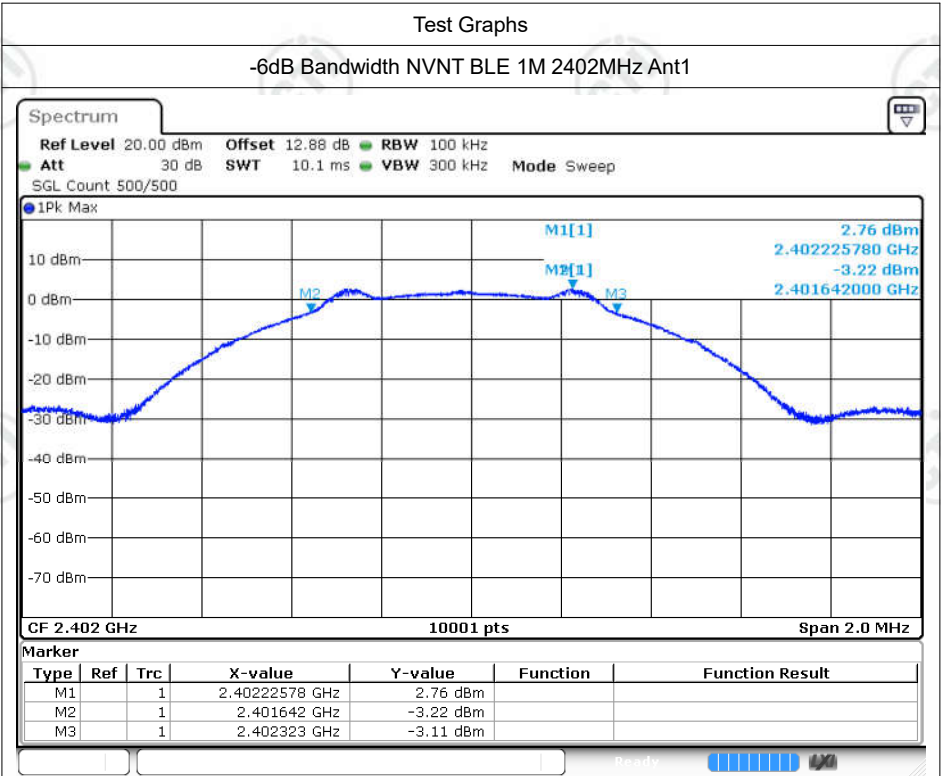


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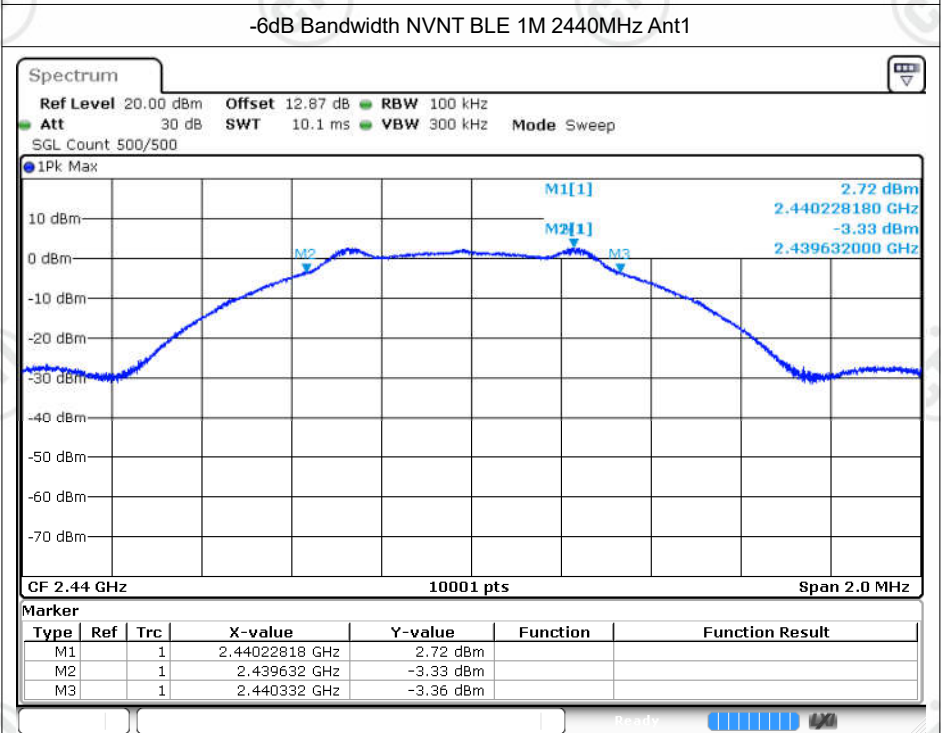


-6dB Bandwidth

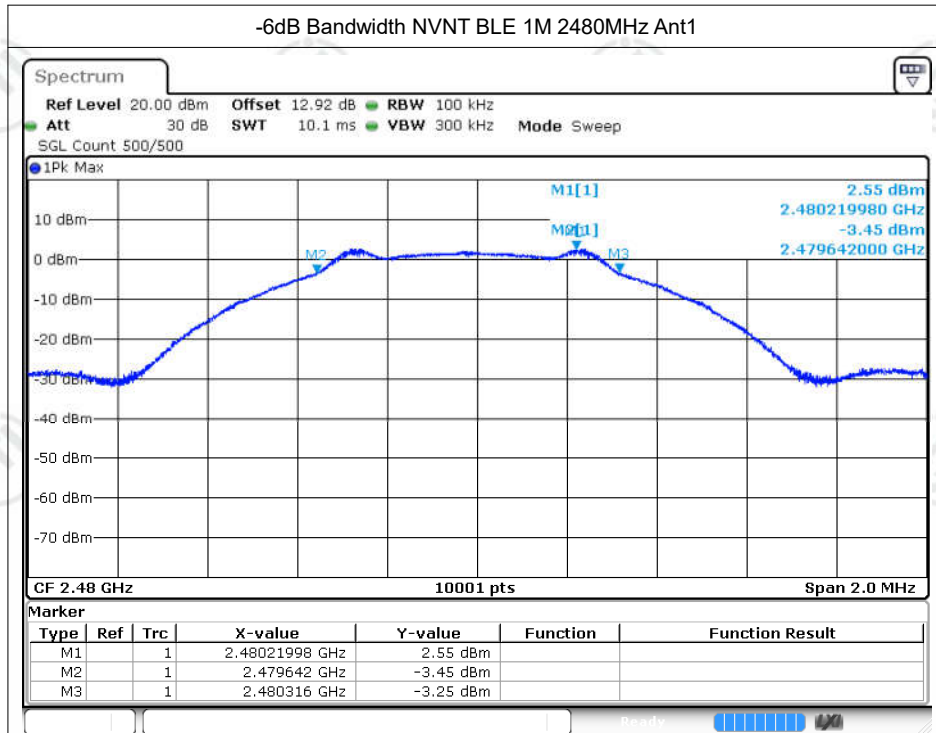
| Condition | Mode   | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 0.681                 | 0.5                         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 0.7                   | 0.5                         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 0.674                 | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 1.33                  | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | 1.358                 | 0.5                         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 1.268                 | 0.5                         | Pass    |



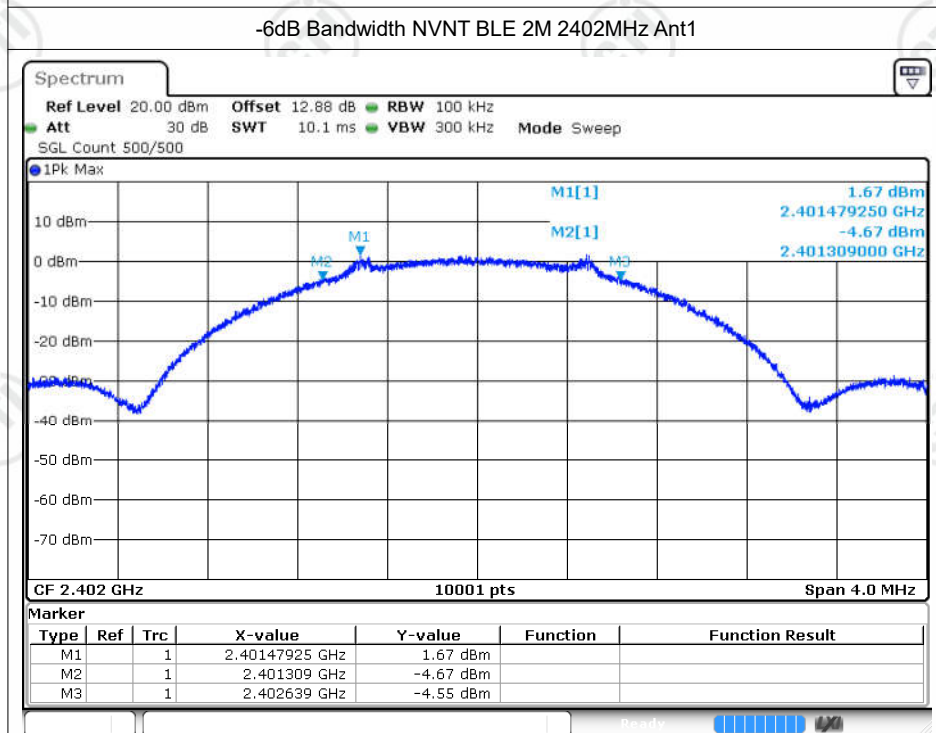
Date: 3.JAN.2023 17:28:00



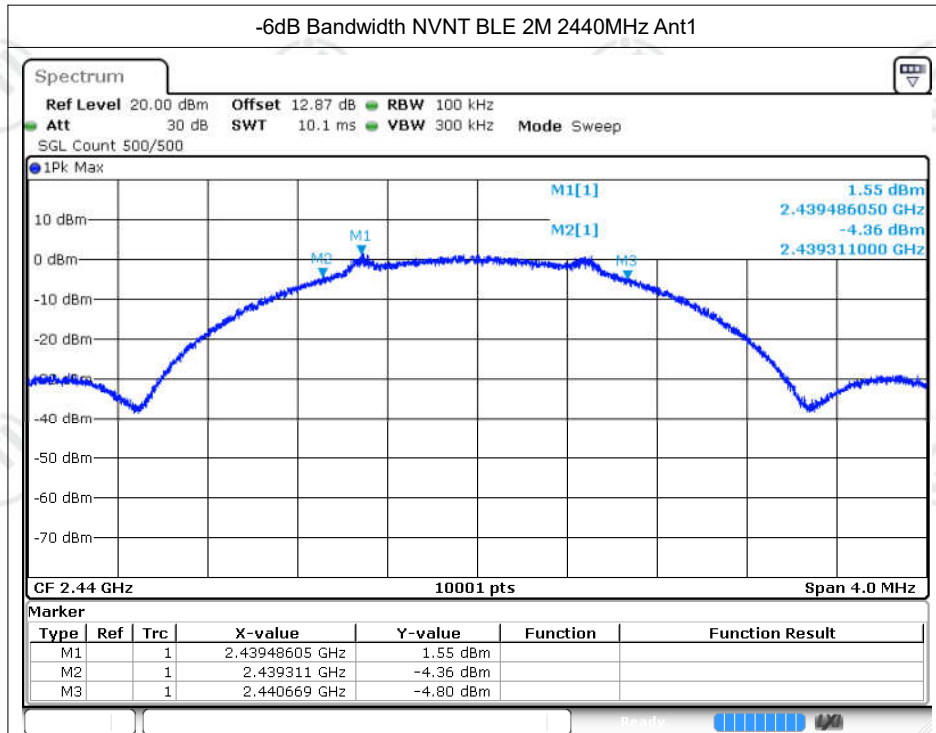
Date: 3.JAN.2023 17:31:18



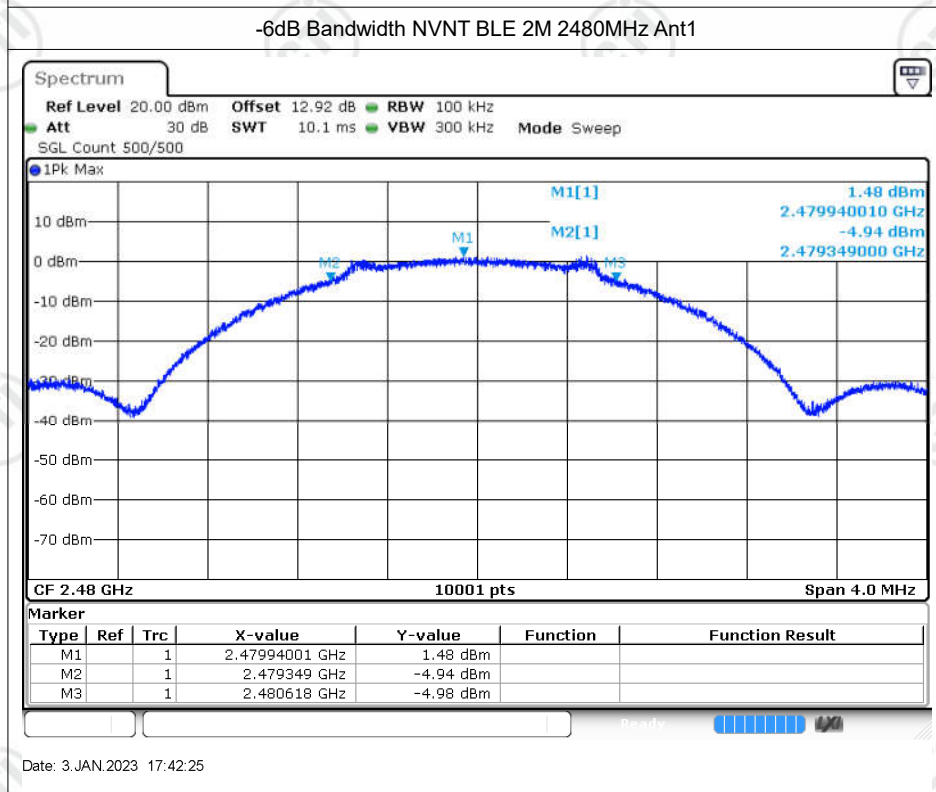
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Date: 3.JAN.2023 17:36:22



Date: 3.JAN.2023 17:39:28



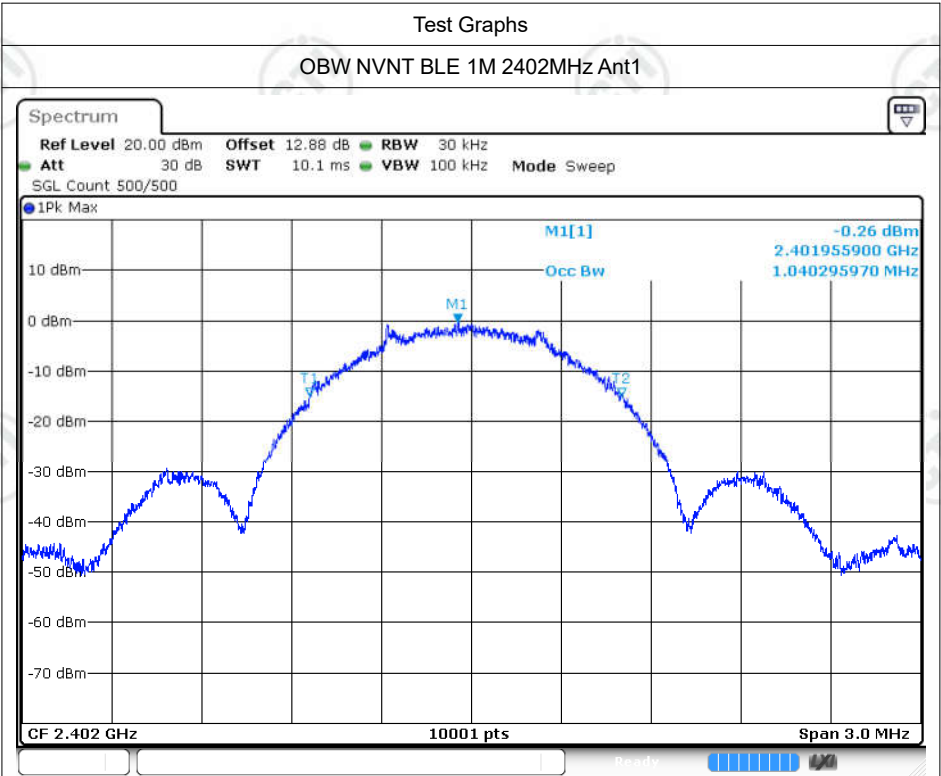
Date: 3.JAN.2023 17:42:25



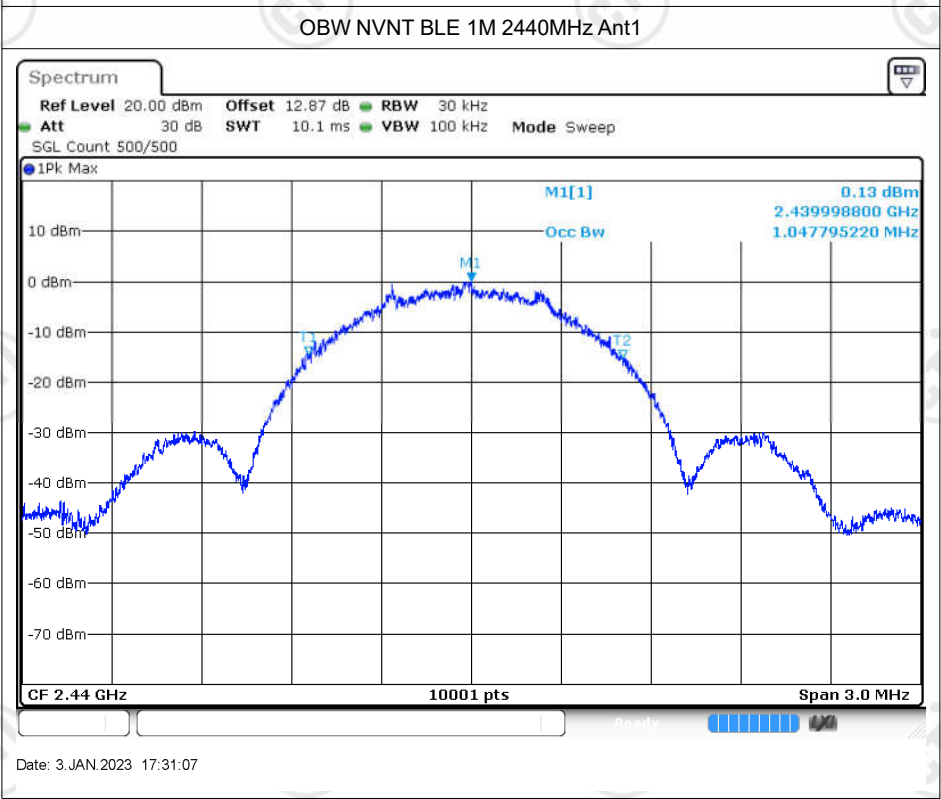
Occupied Channel Bandwidth

| Condition | Mode   | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|--------|-----------------|---------|---------------|
| NVNT      | BLE 1M | 2402            | Ant1    | 1.04          |
| NVNT      | BLE 1M | 2440            | Ant1    | 1.048         |
| NVNT      | BLE 1M | 2480            | Ant1    | 1.035         |
| NVNT      | BLE 2M | 2402            | Ant1    | 2.043         |
| NVNT      | BLE 2M | 2440            | Ant1    | 2.055         |
| NVNT      | BLE 2M | 2480            | Ant1    | 2.027         |

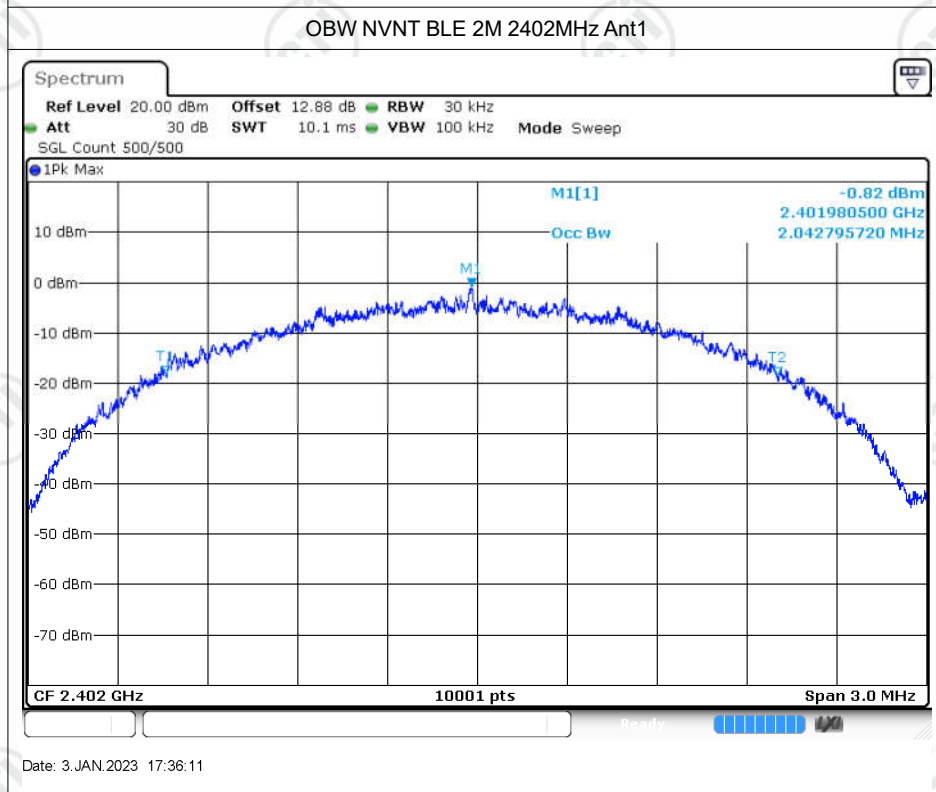
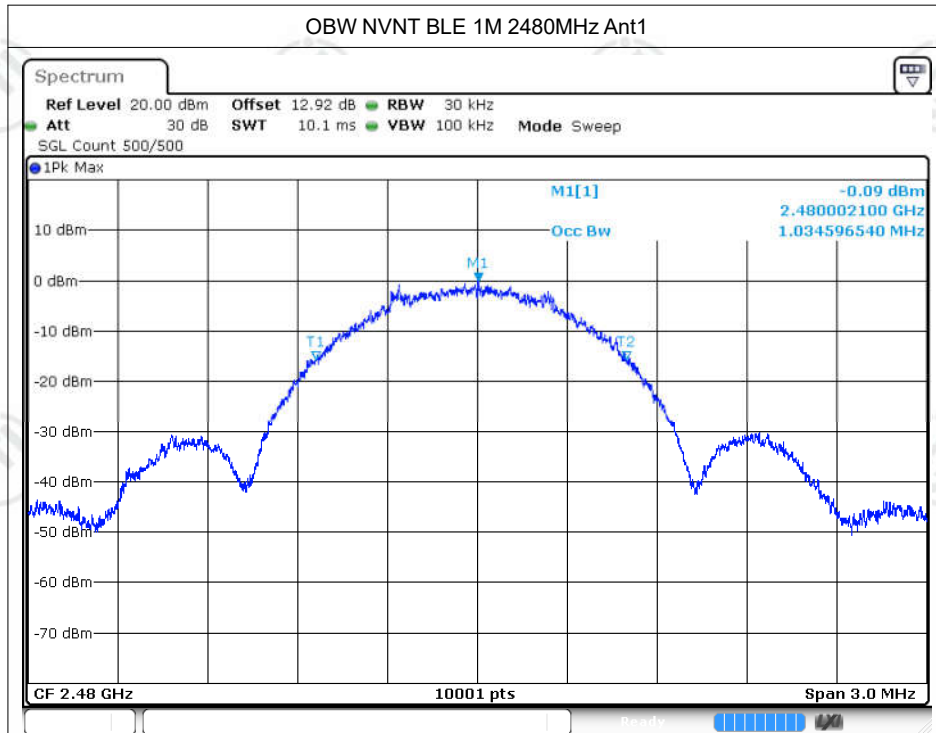


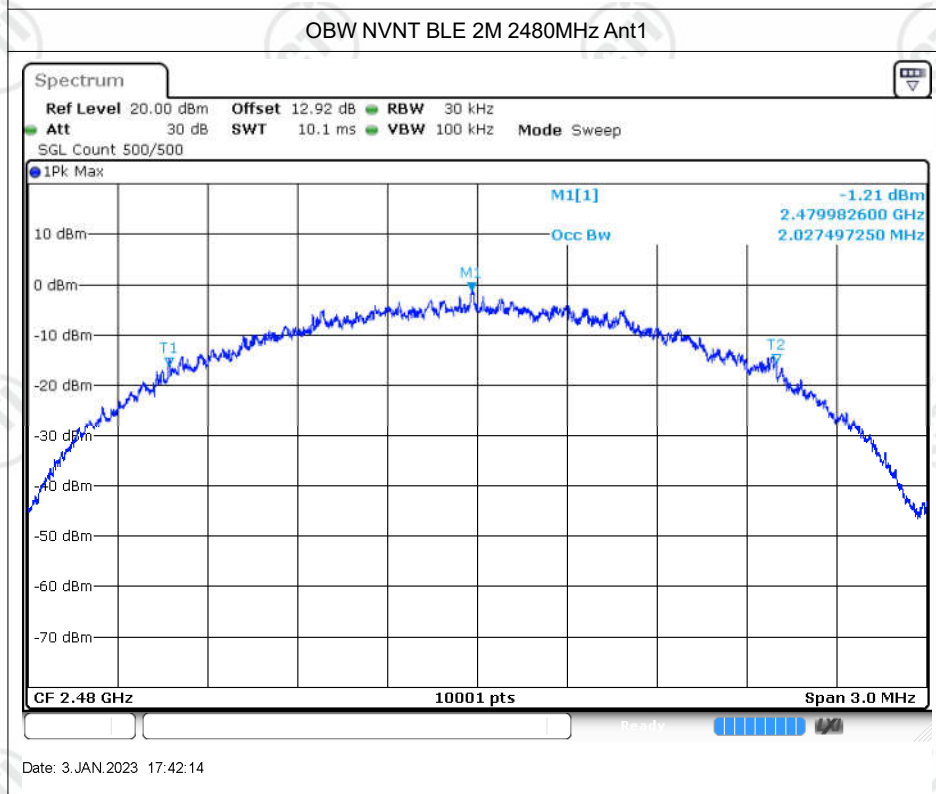
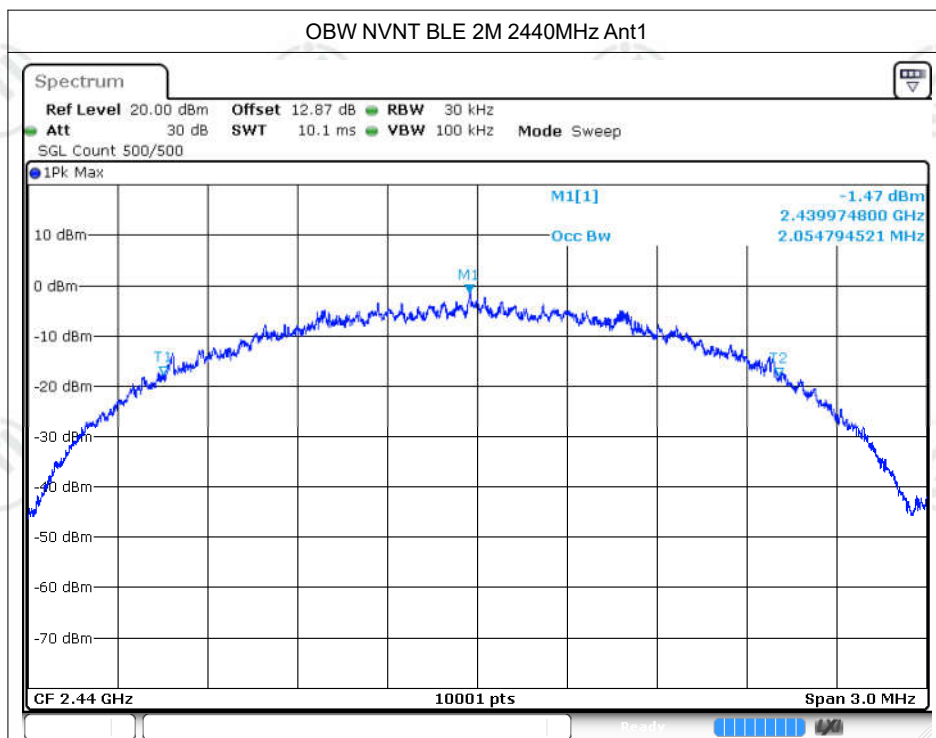


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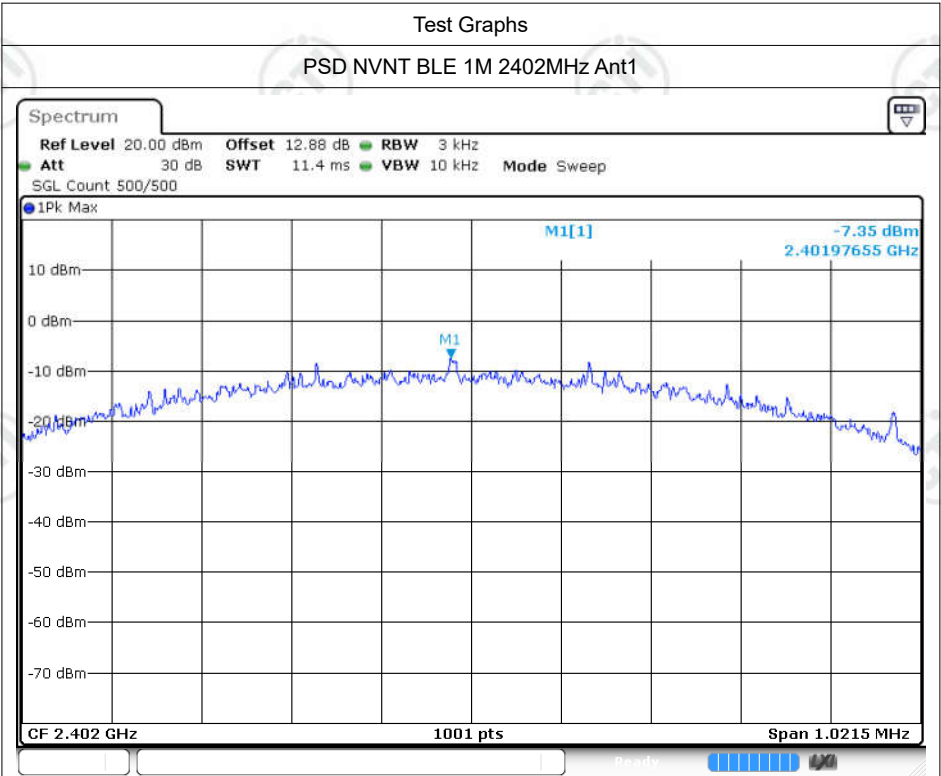
Date: 3.JAN.2023 17:31:07



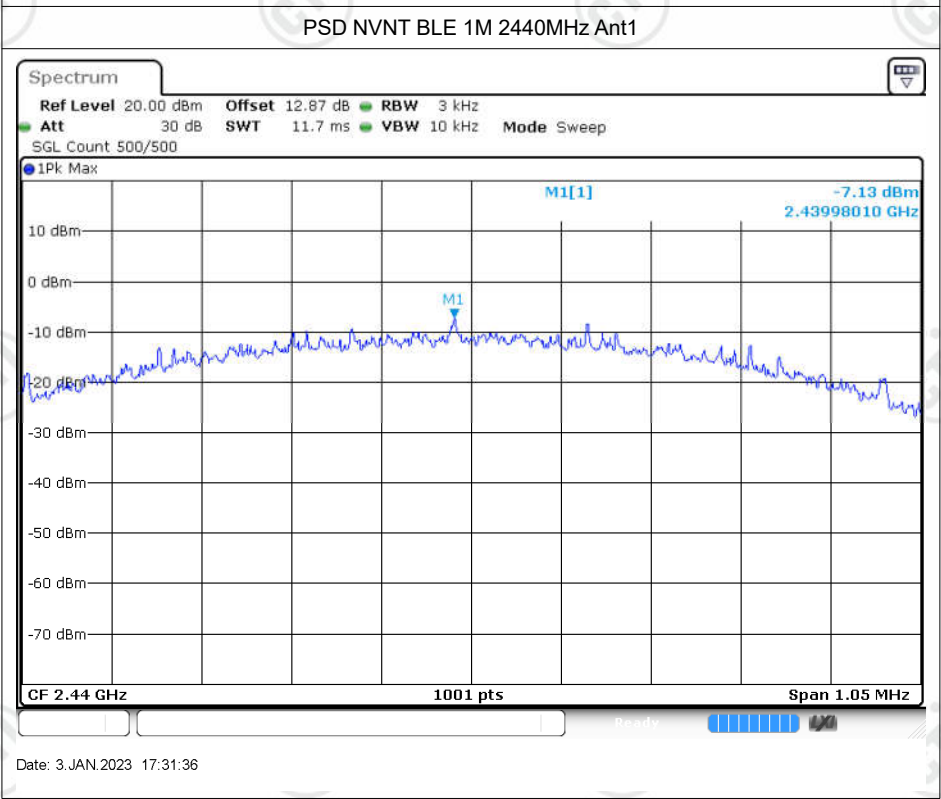


Maximum Power Spectral Density Level

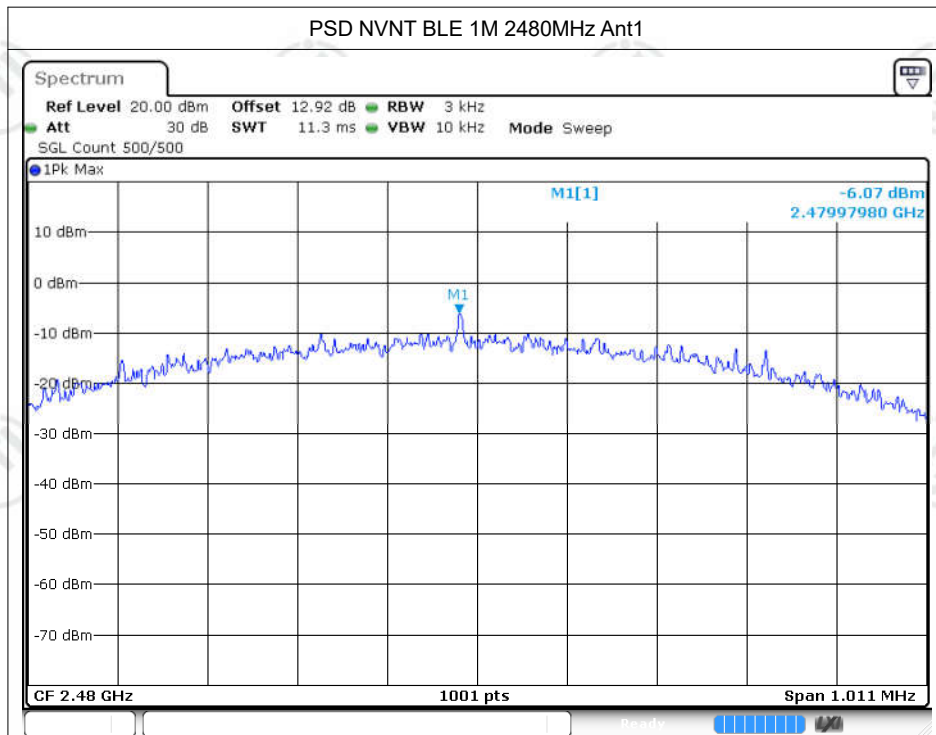
| Condition | Mode   | Frequency<br>(MHz) | Antenna | Conducted PSD<br>(dBm/3kHz) | Duty Factor<br>(dB) | Total PSD<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Verdict |
|-----------|--------|--------------------|---------|-----------------------------|---------------------|-------------------------|---------------------|---------|
| NVNT      | BLE 1M | 2402               | Ant1    | -7.35                       | 0                   | -7.35                   | 8                   | Pass    |
| NVNT      | BLE 1M | 2440               | Ant1    | -7.13                       | 0                   | -7.13                   | 8                   | Pass    |
| NVNT      | BLE 1M | 2480               | Ant1    | -6.07                       | 0                   | -6.07                   | 8                   | Pass    |
| NVNT      | BLE 2M | 2402               | Ant1    | -9.64                       | 0                   | -9.64                   | 8                   | Pass    |
| NVNT      | BLE 2M | 2440               | Ant1    | -9.72                       | 0                   | -9.72                   | 8                   | Pass    |
| NVNT      | BLE 2M | 2480               | Ant1    | -9.81                       | 0                   | -9.81                   | 8                   | Pass    |



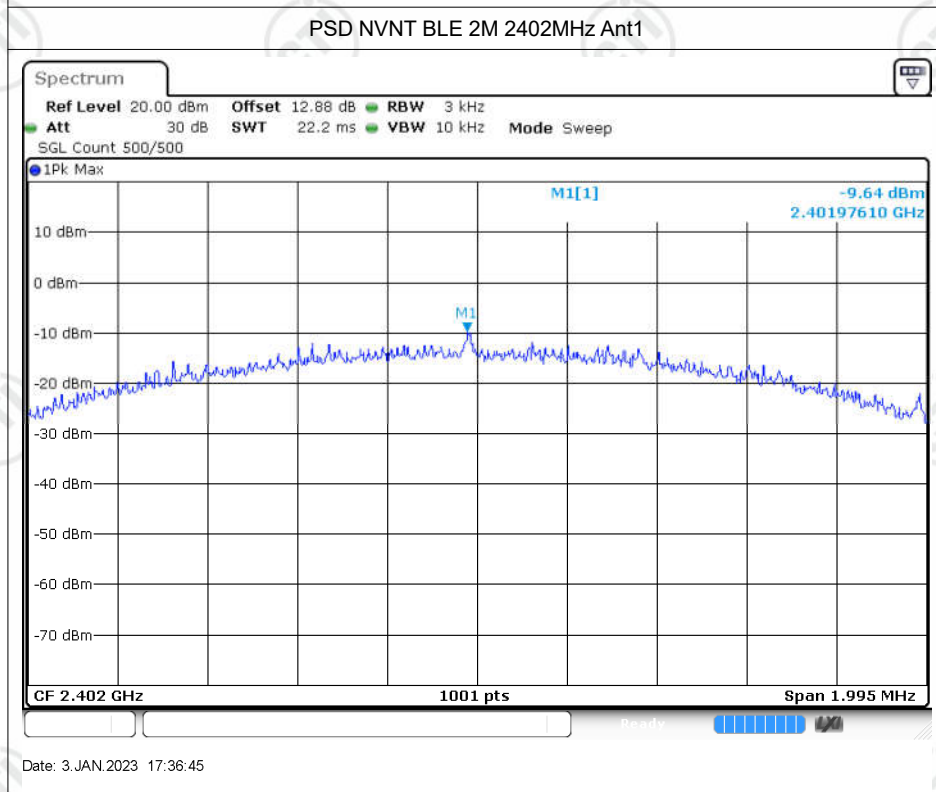
Date: 3.JAN.2023 17:28:18



Date: 3.JAN.2023 17:31:36

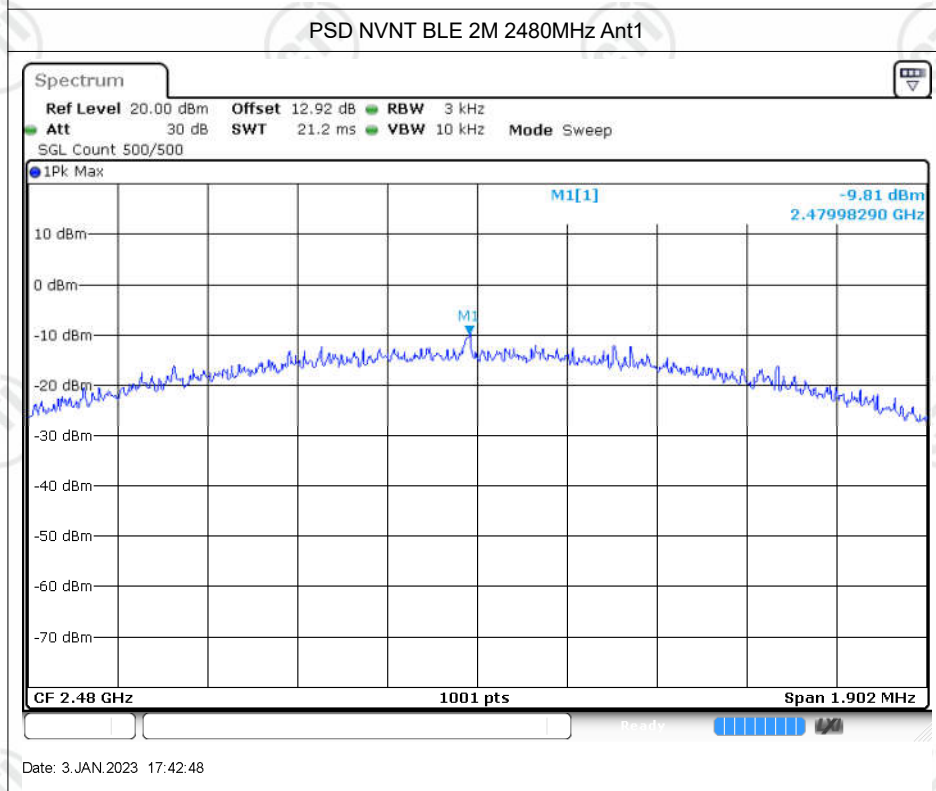
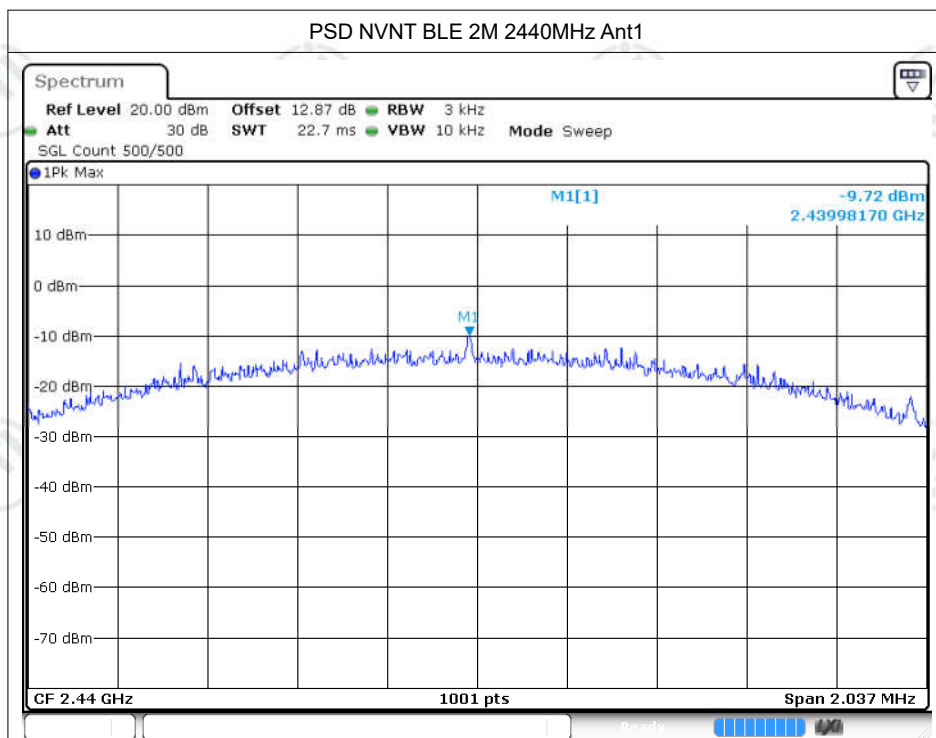


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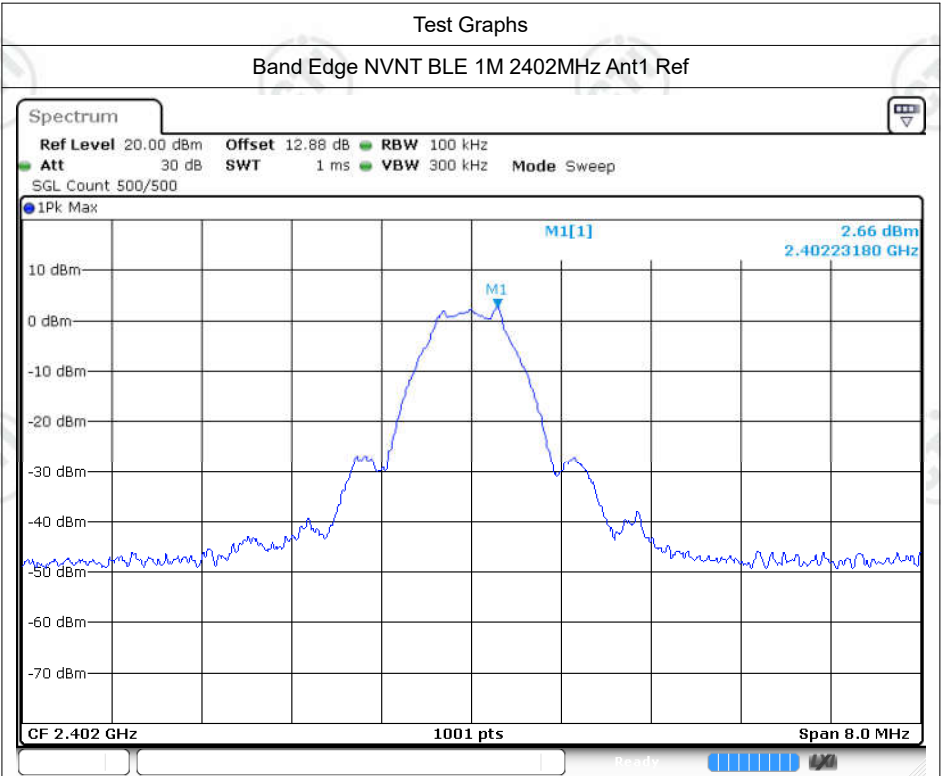
Date: 3.JAN.2023 17:36:45



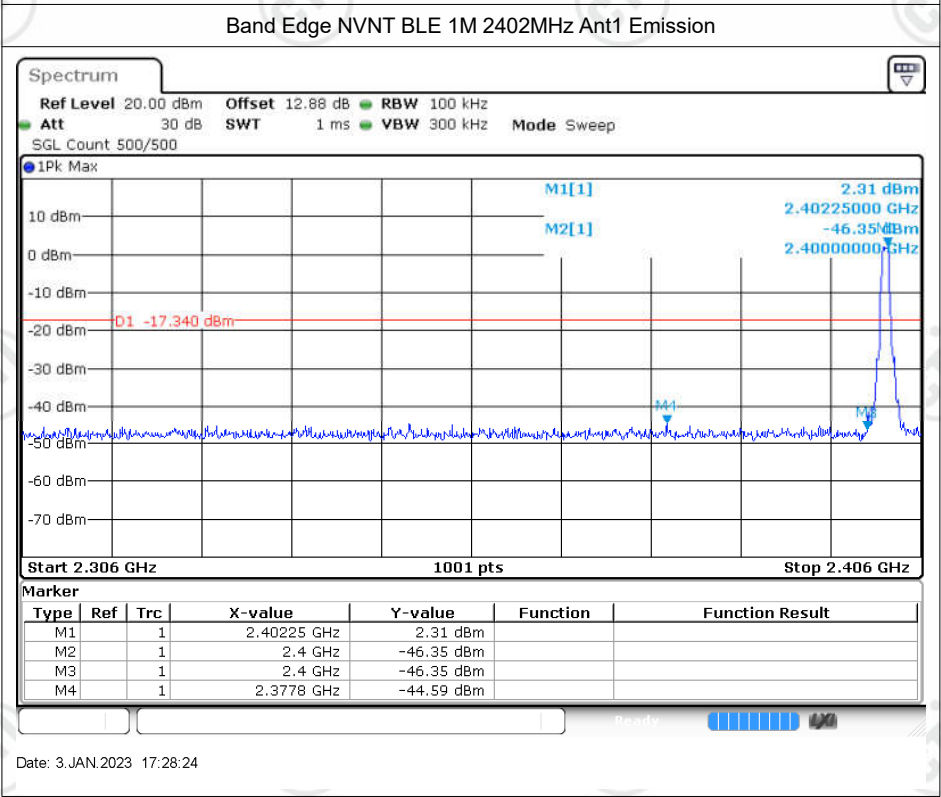


Band Edge

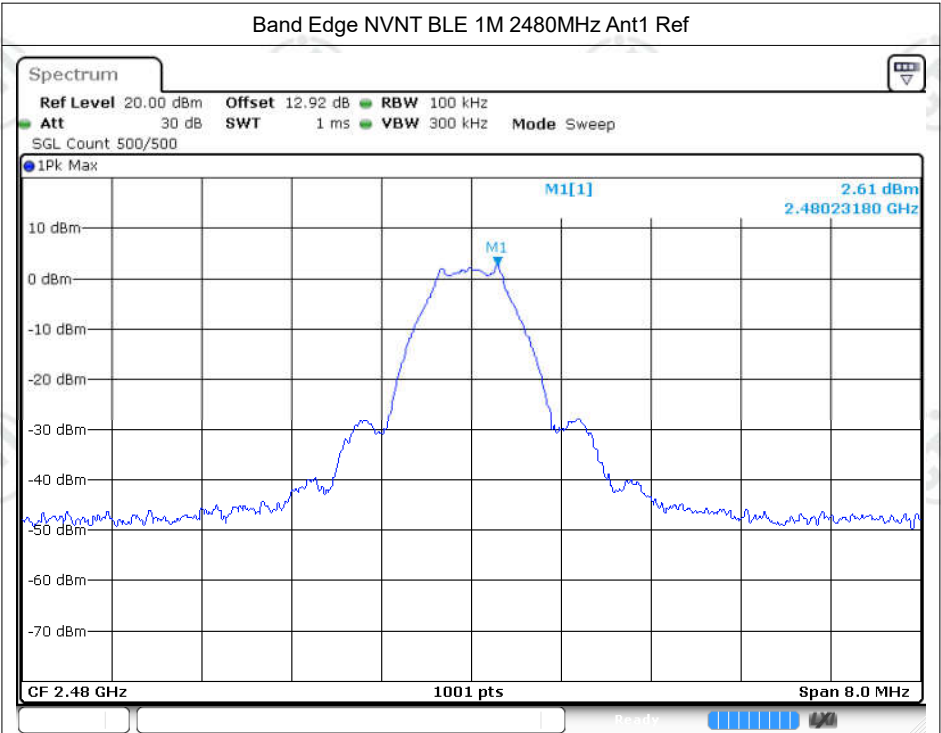
| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBm) | Limit (dBm) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -47.25          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -48.07          | -20         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -33.89          | -20         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -45.08          | -20         | Pass    |



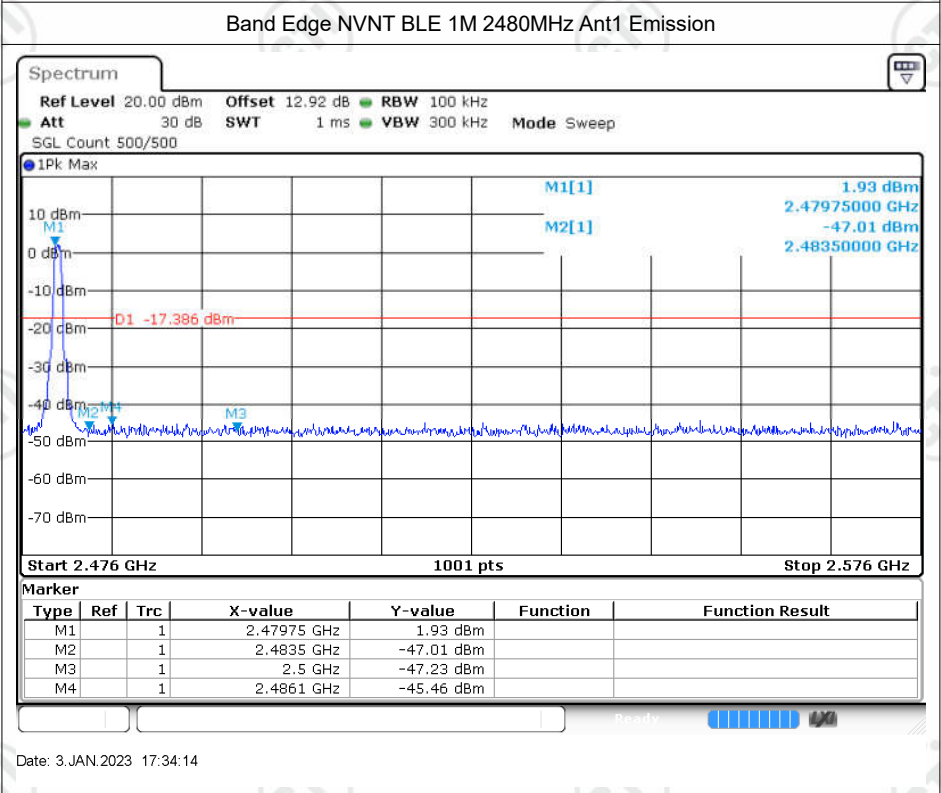
Date: 3.JAN.2023 17:28:21



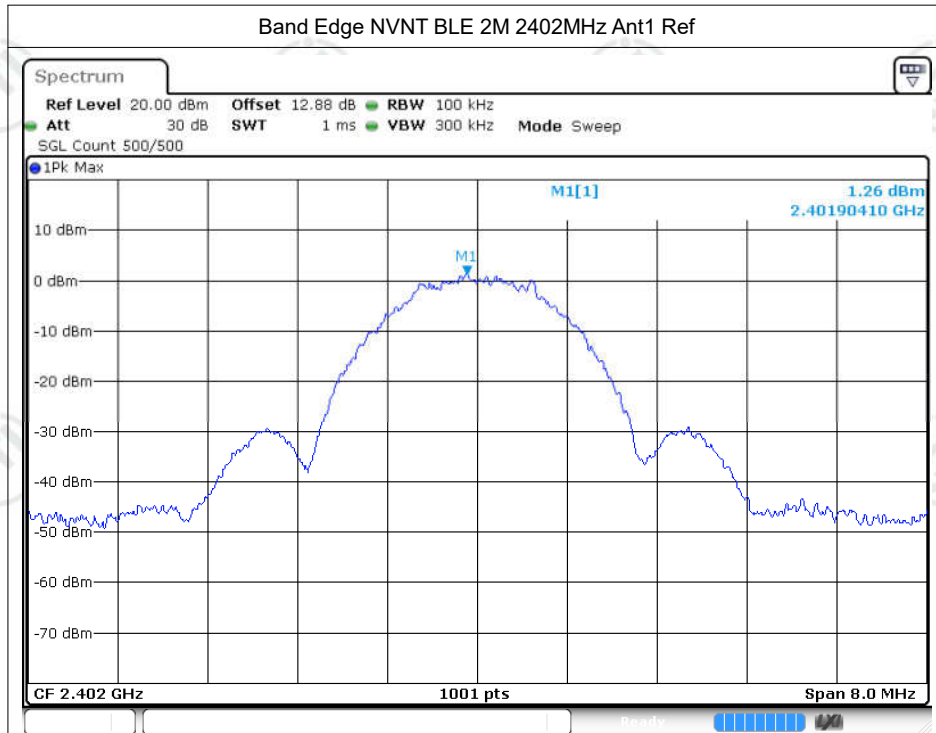
Date: 3.JAN.2023 17:28:24



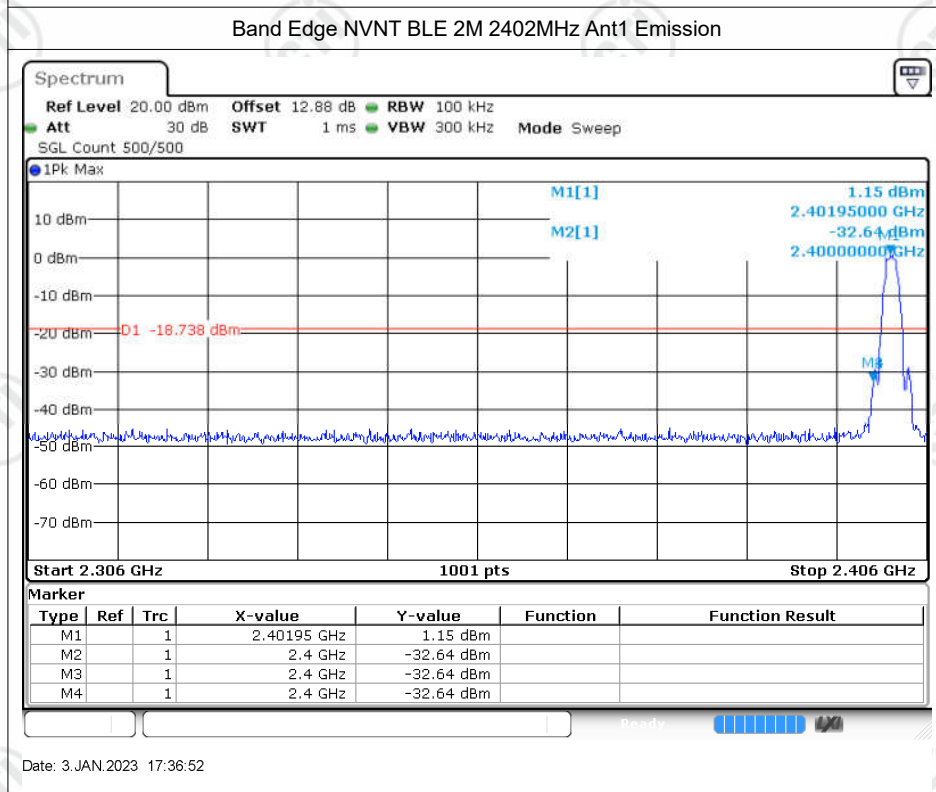
Date: 3.JAN.2023 17:34:12



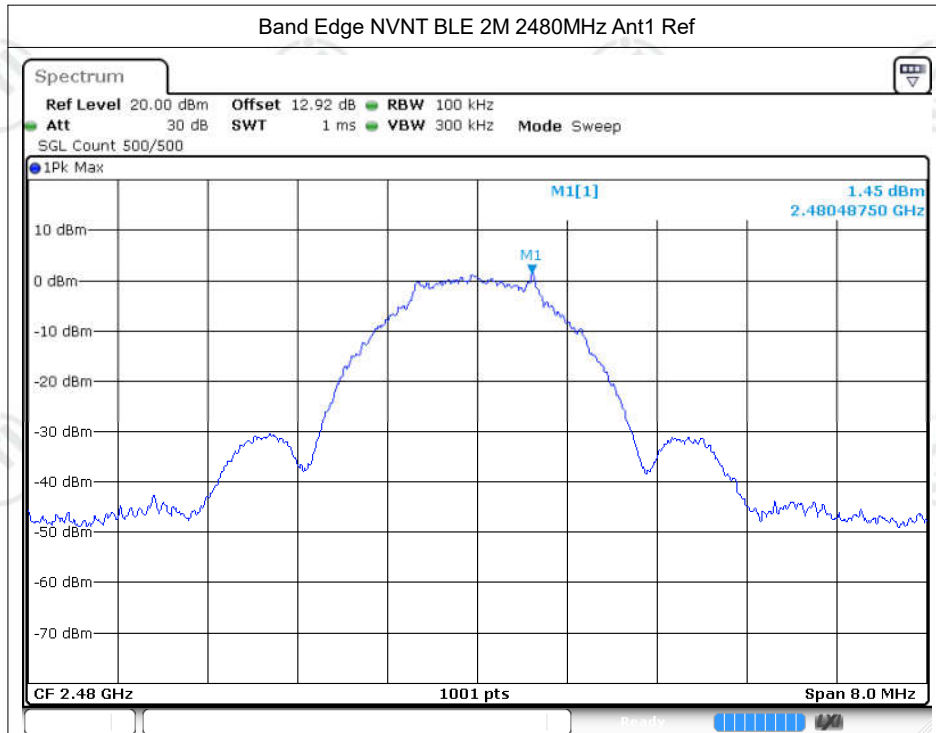
Date: 3.JAN.2023 17:34:14



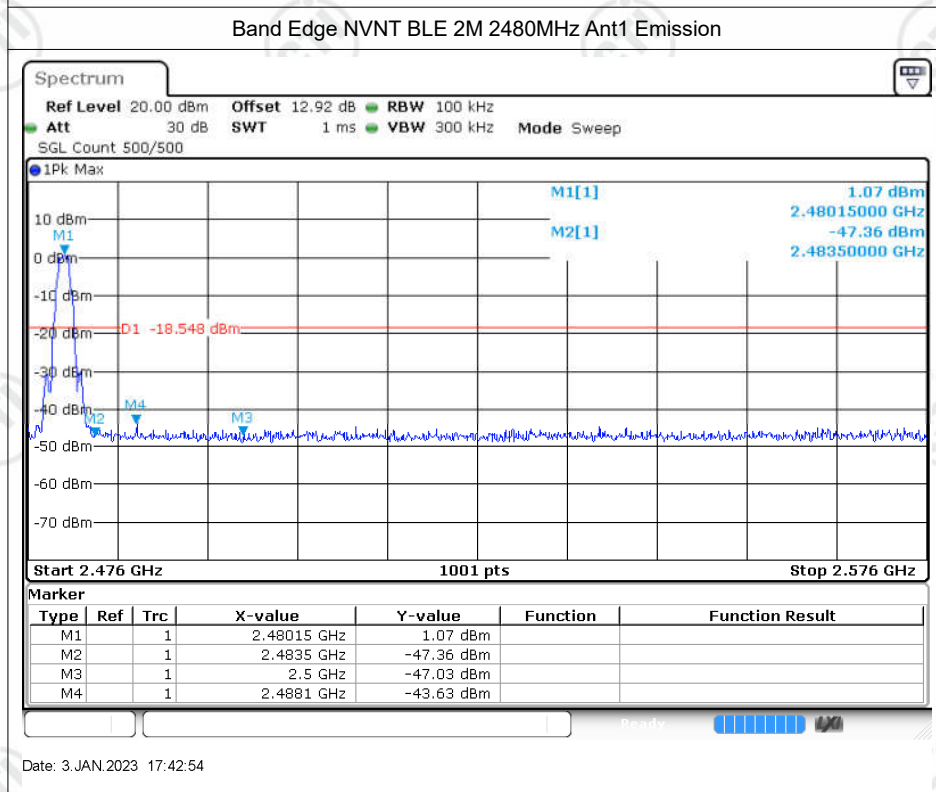
Date: 3.JAN.2023 17:36:49



Date: 3.JAN.2023 17:36:52



Date: 3.JAN.2023 17:42:52

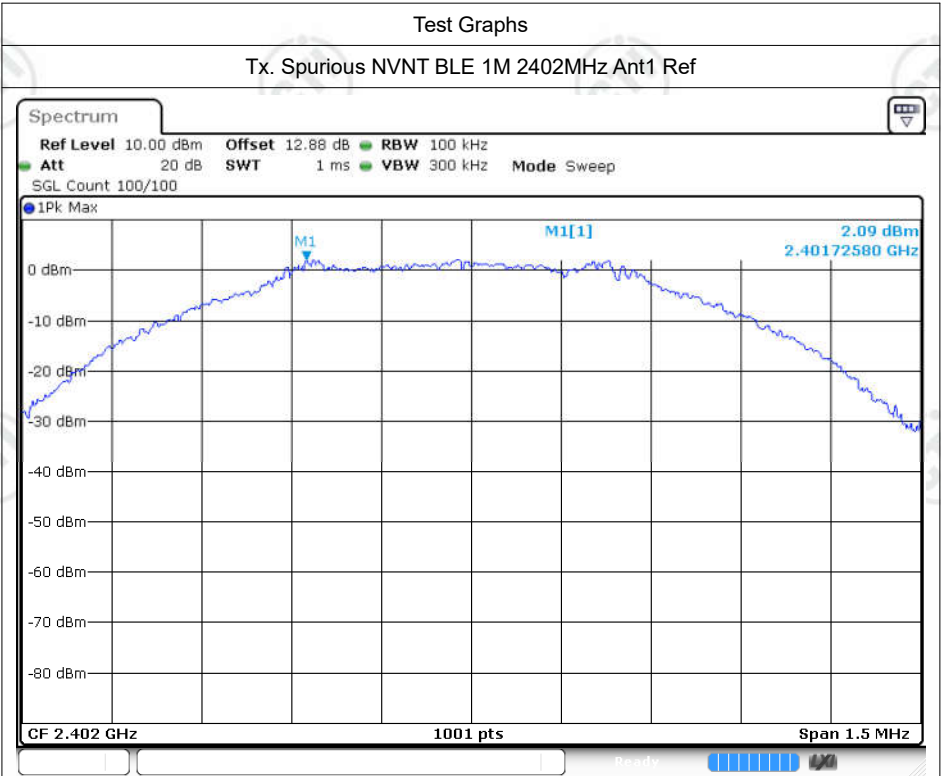


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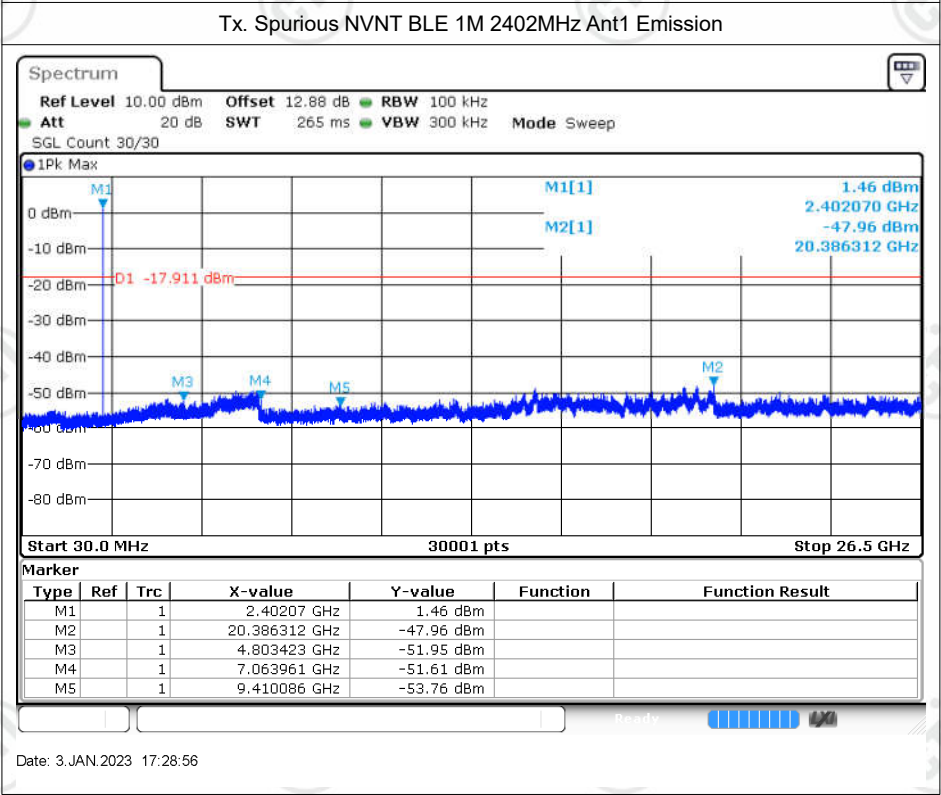


Conducted RF Spurious Emission

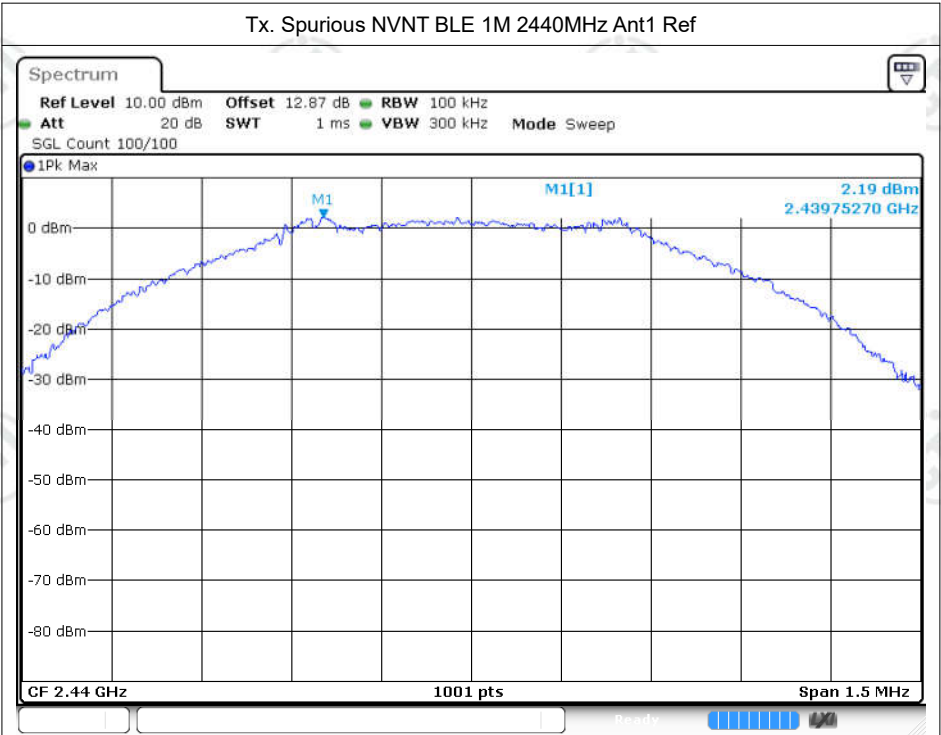
| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBm) | Limit (dBm) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -50.04          | -20         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -50.49          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -50.81          | -20         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -49.81          | -20         | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | -47.84          | -20         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -49.12          | -20         | Pass    |



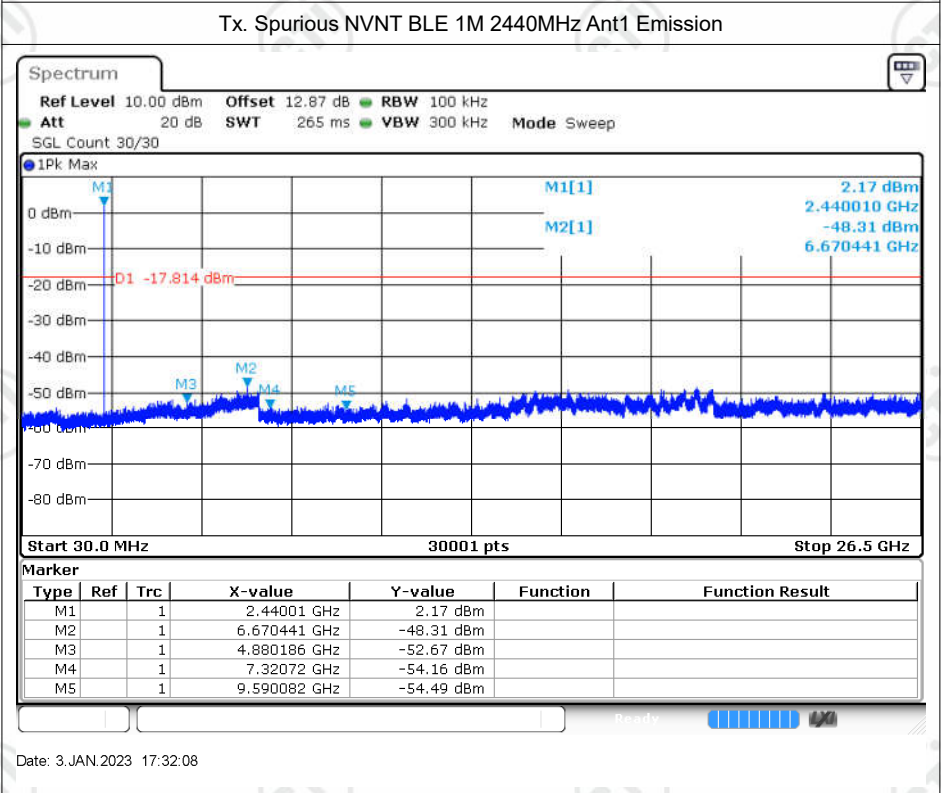
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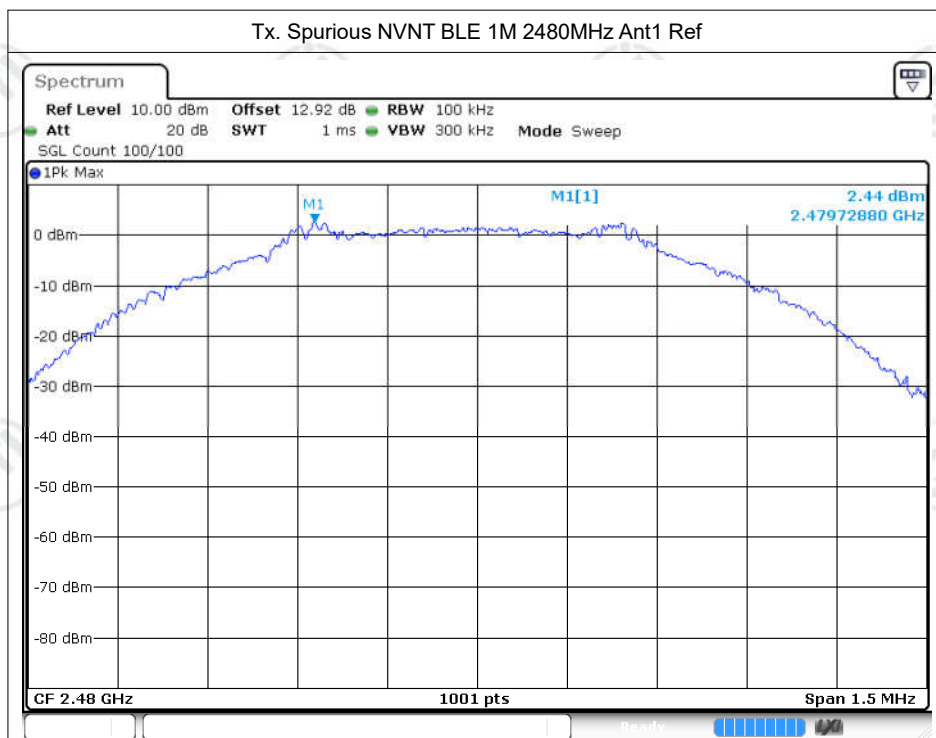
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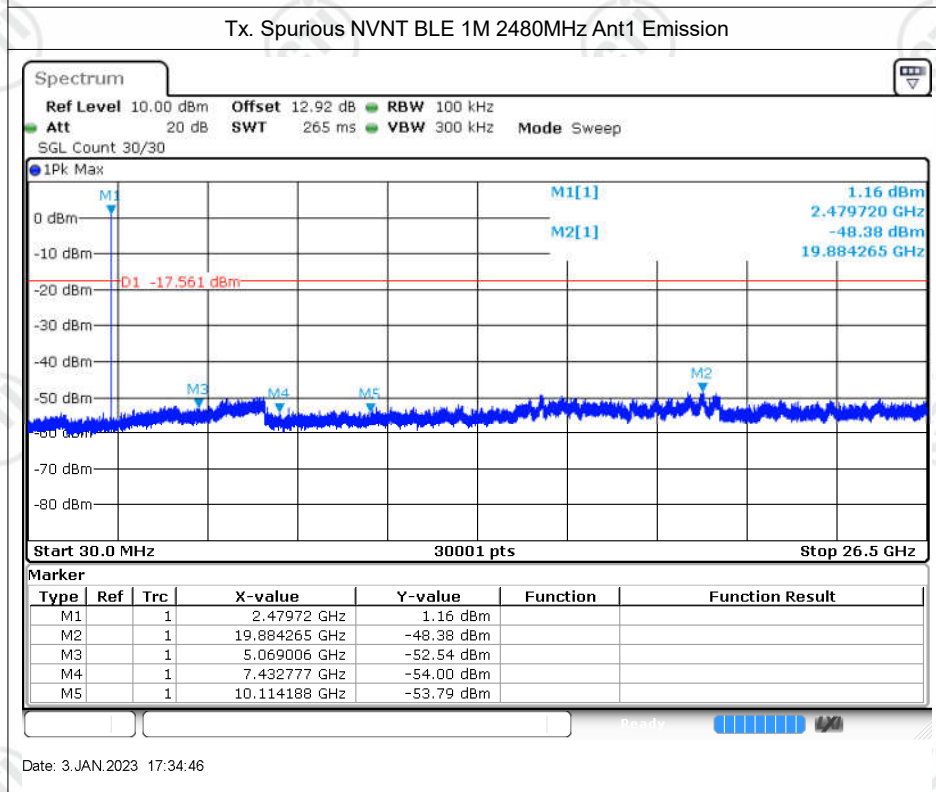
Date: 3.JAN.2023 17:31:40



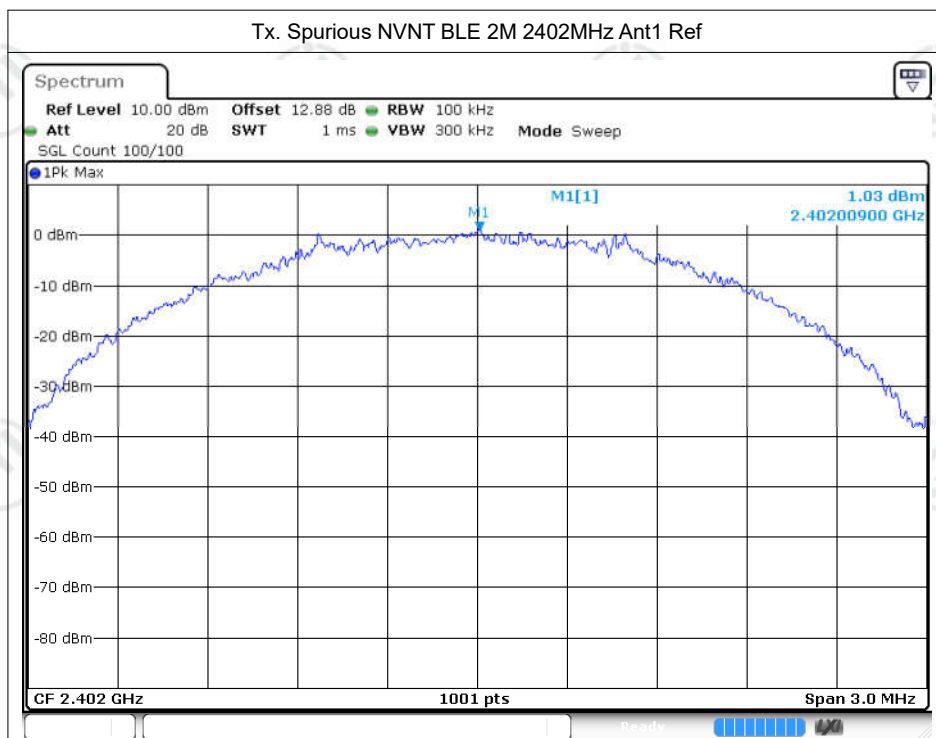
Date: 3.JAN.2023 17:32:08



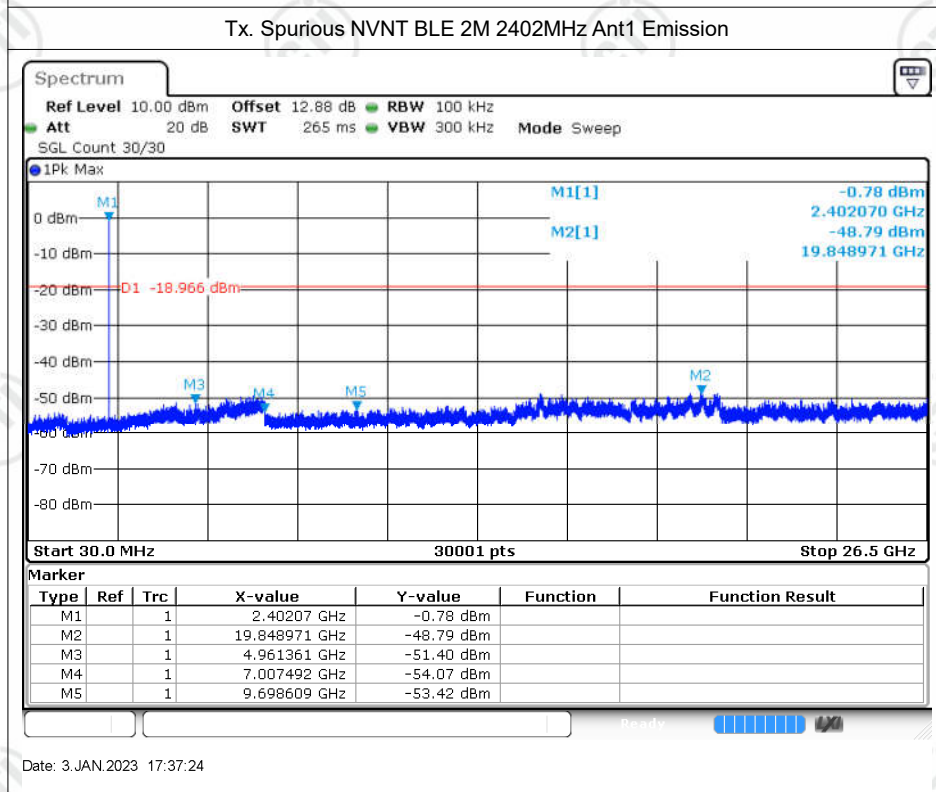
Date: 3.JAN.2023 17:34:17



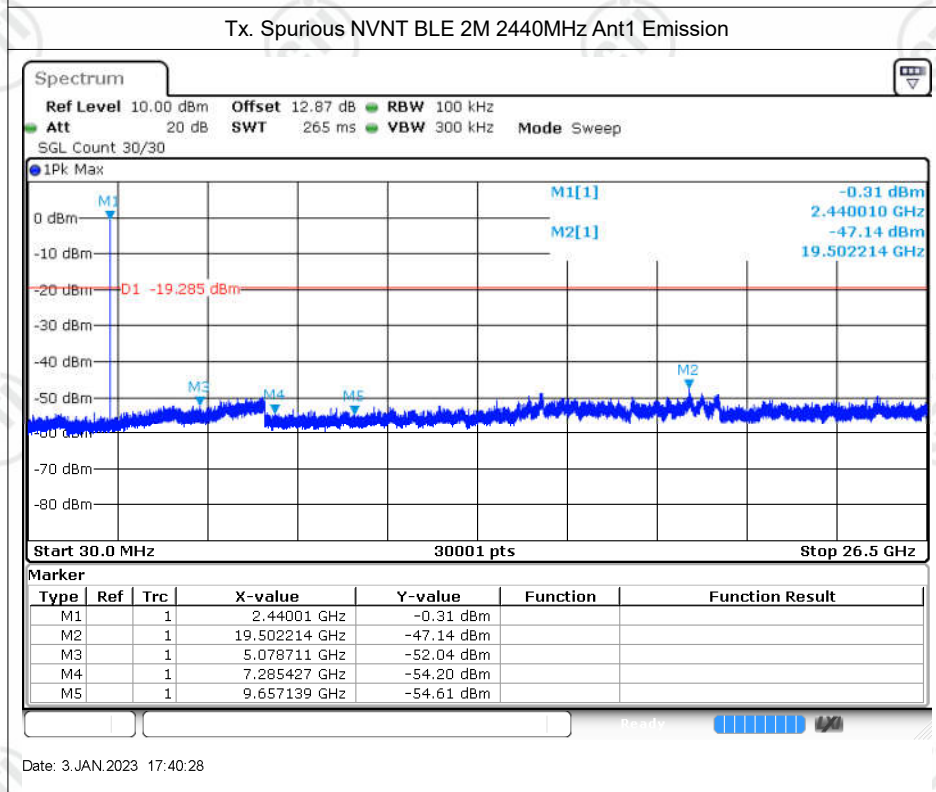
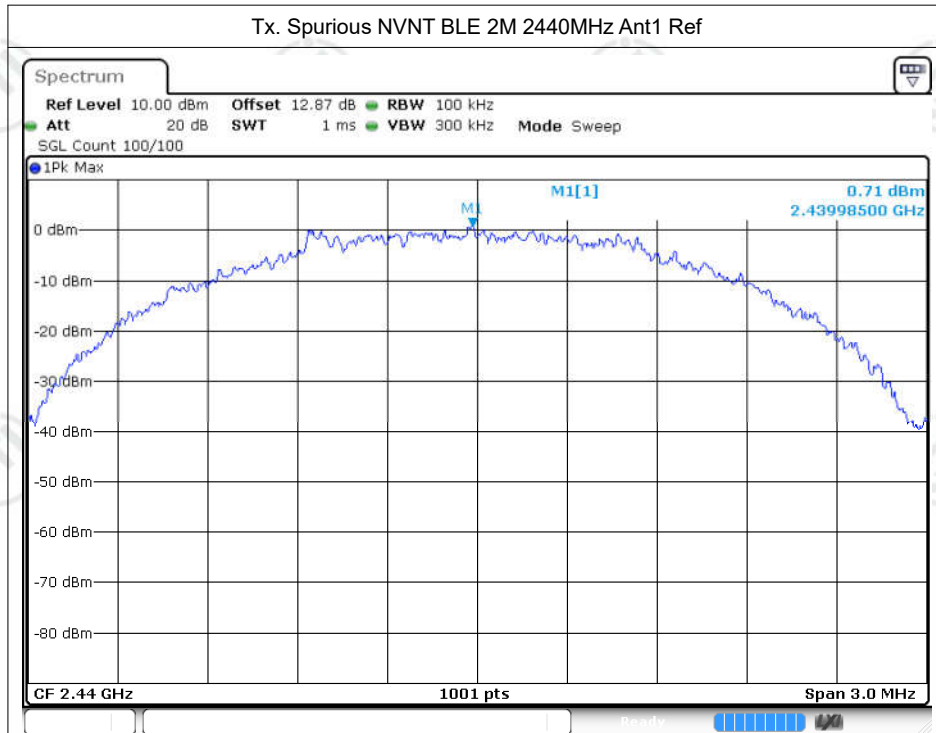
Date: 3.JAN.2023 17:34:46



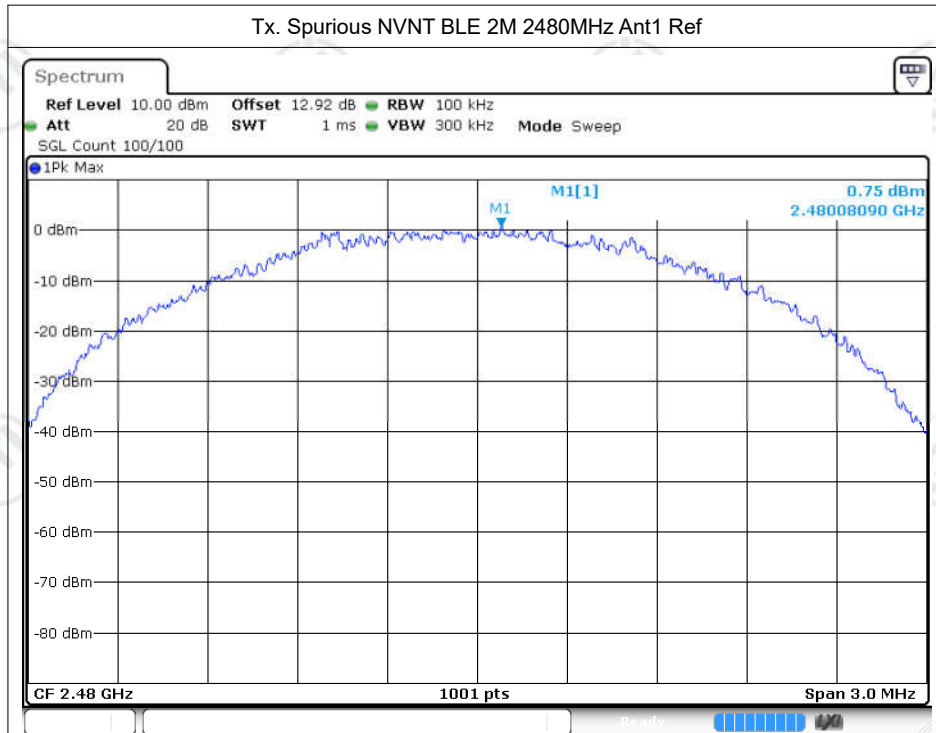
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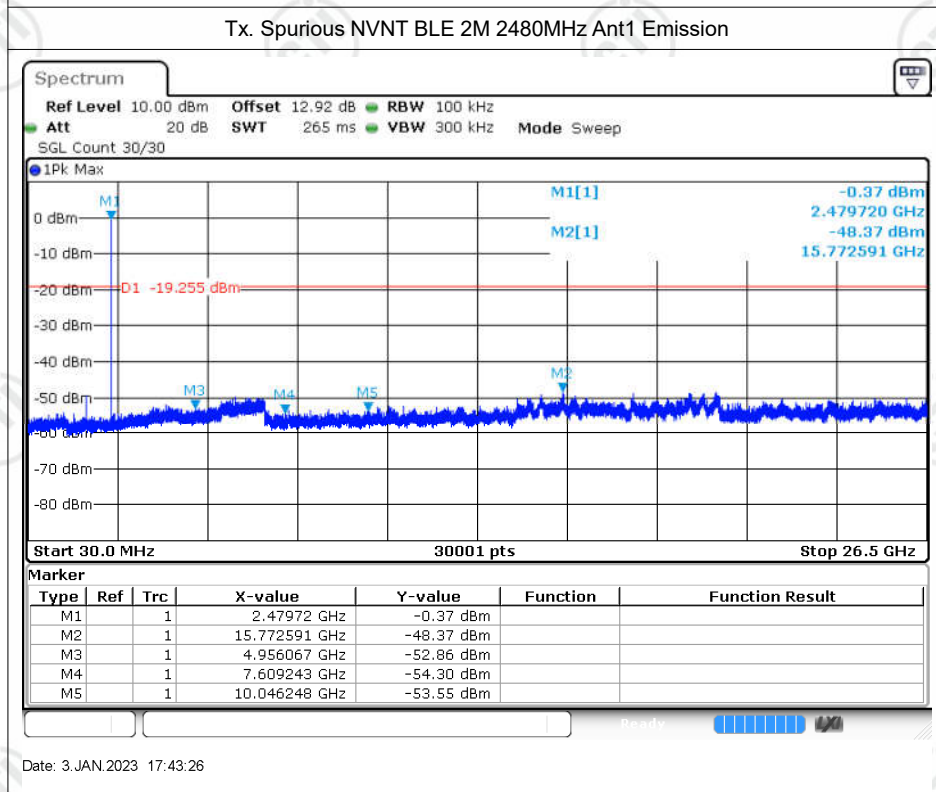
Date: 3.JAN.2023 17:37:24







Date: 3.JAN.2023 17:42:57



Date: 3.JAN.2023 17:43:26

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