

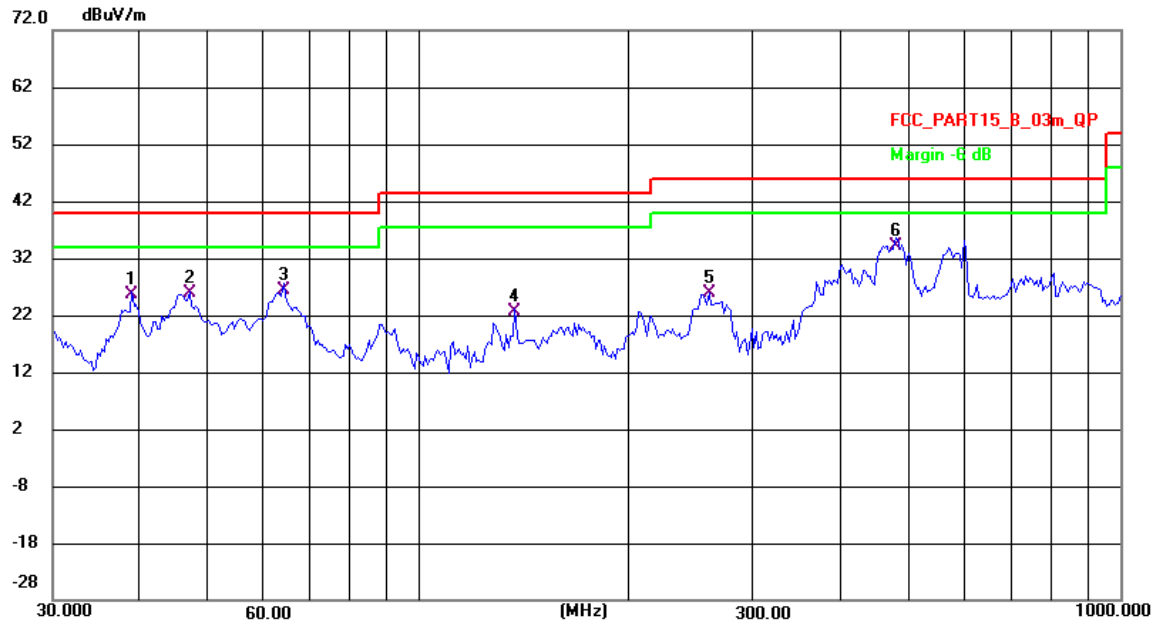
## **APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

## APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

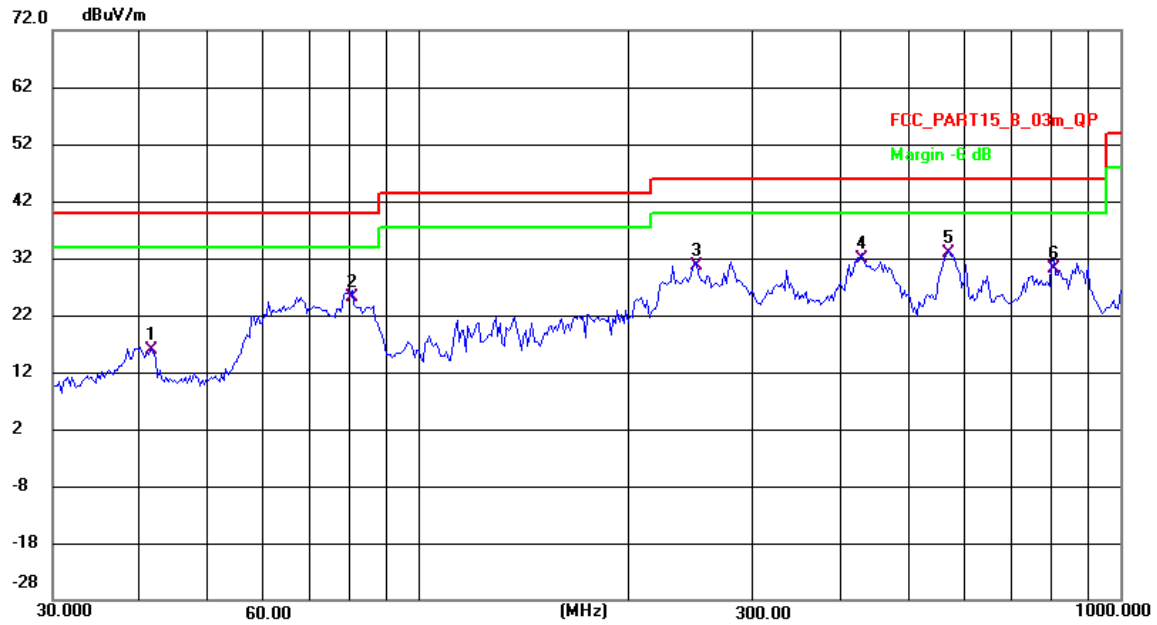
|           |                      |              |          |
|-----------|----------------------|--------------|----------|
| Test Mode | TX G Mode Channel 01 | Polarization | Vertical |
|-----------|----------------------|--------------|----------|



### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|           |                      |              |            |
|-----------|----------------------|--------------|------------|
| Test Mode | TX G Mode Channel 01 | Polarization | Horizontal |
|-----------|----------------------|--------------|------------|



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1   | 41.4483         | 38.07          | -22.11        | 15.96          | 40.00          | -24.04      | QP       | P   |        |
| 2   | 80.2383         | 50.89          | -25.88        | 25.01          | 40.00          | -14.99      | QP       | P   |        |
| 3   | 248.7318        | 54.33          | -23.65        | 30.68          | 46.00          | -15.32      | QP       | P   |        |
| 4   | 427.2920        | 50.18          | -18.31        | 31.87          | 46.00          | -14.13      | QP       | P   |        |
| 5 * | 569.9688        | 47.71          | -14.75        | 32.96          | 46.00          | -13.04      | QP       | P   |        |
| 6   | 804.2522        | 40.07          | -9.82         | 30.25          | 46.00          | -15.75      | QP       | P   |        |

#### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

## APPENDIXD -RADIATED EMISSION- ABOVE 1000MHZ

Test Result of Radiated Spurious at Band edges.

Note: All test plots below include both horizontal and vertical

| Test Results    |          |          |                  |                | PASS               |                |        |        |
|-----------------|----------|----------|------------------|----------------|--------------------|----------------|--------|--------|
| Frequency Range |          |          |                  |                | 2310MHz~2410MHz    |                |        |        |
| Test Mode       |          |          |                  |                | TX B Mode 2412 MHz |                |        |        |
| N o.            | Freq MHz | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m)    | Limit (dBuV/m) | Margin | Remark |
| 1               | 2390     | H        | 74.08            | -21.47         | 52.61              | 74.00          | -21.39 | Peak   |
| 2               | 2390     | H        | --               | -21.47         | --                 | 54.00          | --     | Avg    |
| 3               | 2400     | H        | 76.31            | -26.12         | 50.19              | 74.00          | -23.81 | Peak   |
| 4               | 2400     | H        | --               | -26.12         | --                 | 54.00          | --     | Avg    |
| 1               | 2390     | V        | 74.11            | -21.47         | 52.64              | 74.00          | -21.36 | Peak   |
| 2               | 2390     | V        | --               | -21.47         | --                 | 54.00          | --     | Avg    |
| 3               | 2400     | V        | 76.13            | -26.12         | 50.01              | 74.00          | -23.99 | Peak   |
| 4               | 2400     | V        | --               | -26.12         | --                 | 54.00          | --     | Avg    |
| Test Results    |          |          |                  |                | PASS               |                |        |        |
| Frequency Range |          |          |                  |                | 2450MHz~2550MHz    |                |        |        |
| Test Mode       |          |          |                  |                | TX B Mode 2462 MHz |                |        |        |
| 1               | 2483.5   | H        | 77.06            | -25.29         | 51.77              | 74.00          | -22.23 | Peak   |
| 2               | 2483.5   | H        | --               | -25.29         | --                 | 54.00          | --     | Avg    |
| 1               | 2483.5   | V        | 76.69            | -25.29         | 51.40              | 74.00          | -22.60 | Peak   |
| 2               | 2483.5   | V        | --               | -25.29         | --                 | 54.00          | --     | Avg    |

Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.

2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.

Result=Reading + Correct Factor.

Margin= Result-Limit.

3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.

| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |          |                  | PASS               |                 |                |        |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|--------------------|-----------------|----------------|--------|--------|
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |                  | 2310MHz~2410MHz    |                 |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |                  | TX G Mode 2412 MHz |                 |                |        |        |
| N o.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Freq MHz | Polarity | Reading (dBuV/m) | Correct Factor     | Result (dBuV/m) | Limit (dBuV/m) | Margin | Remark |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2390     | H        | 75.01            | -21.47             | 53.54           | 74.00          | -20.46 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2390     | H        | --               | -21.47             | --              | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2400     | H        | 77.12            | -26.12             | 51.00           | 74.00          | -23.00 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2400     | H        | --               | -26.12             | --              | 54.00          | --     | Avg    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2390     | V        | 74.44            | -21.47             | 52.97           | 74.00          | -21.03 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2390     | V        | --               | -21.47             | --              | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2400     | V        | 78.62            | -26.12             | 52.50           | 74.00          | -21.50 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2400     | V        | --               | -26.12             | --              | 54.00          | --     | Avg    |
| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |          |                  | PASS               |                 |                |        |        |
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |                  | 2450MHz~2550MHz    |                 |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |                  | TX G Mode 2462 MHz |                 |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2483.5   | H        | 77.66            | -25.29             | 52.37           | 74.00          | -21.63 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2483.5   | H        | --               | -25.29             | --              | 54.00          | --     | Avg    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2483.5   | V        | 75.49            | -25.29             | 50.20           | 74.00          | -23.80 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2483.5   | V        | --               | -25.29             | --              | 54.00          | --     | Avg    |
| <p>Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.</p> <p>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.</p> <p>Result=Reading + Correct Factor.</p> <p>Margin= Result-Limit.</p> <p>3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.</p> |          |          |                  |                    |                 |                |        |        |

| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |          |                  |                | PASS                     |                |        |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|----------------|--------------------------|----------------|--------|--------|
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |                  |                | 2310MHz~2410MHz          |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |                  |                | TX N(HT20) Mode 2412 MHz |                |        |        |
| N o.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Freq MHz | Polarity | Reading (dBuV/m) | Correct Factor | Result (dBuV/m)          | Limit (dBuV/m) | Margin | Remark |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2390     | H        | 75.04            | -21.47         | 53.57                    | 74.00          | -20.43 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2390     | H        | --               | -21.47         | --                       | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2400     | H        | 77.21            | -26.12         | 51.09                    | 74.00          | -22.91 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2400     | H        | --               | -26.12         | --                       | 54.00          | --     | Avg    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2390     | V        | 75.14            | -21.47         | 53.67                    | 74.00          | -20.33 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2390     | V        | --               | -21.47         | --                       | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2400     | V        | 76.32            | -26.12         | 50.20                    | 74.00          | -23.80 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2400     | V        | --               | -26.12         | --                       | 54.00          | --     | Avg    |
| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |          |                  |                | PASS                     |                |        |        |
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |                  |                | 2450MHz~2550MHz          |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |                  |                | TX N(HT20) Mode 2462 MHz |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2483.5   | H        | 77.01            | -25.29         | 51.72                    | 74.00          | -22.28 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2483.5   | H        | --               | -25.29         | --                       | 54.00          | --     | Avg    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2483.5   | V        | 77.04            | -25.29         | 51.75                    | 74.00          | -22.25 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2483.5   | V        | --               | -25.29         | --                       | 54.00          | --     | Avg    |
| <p>Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.</p> <p>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.<br/>Result=Reading + Correct Factor.<br/>Margin= Result-Limit.</p> <p>3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.</p> |          |          |                  |                |                          |                |        |        |

| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |          |                  | PASS                     |                 |                |        |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|--------------------------|-----------------|----------------|--------|--------|
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |                  | 2310MHz~2410MHz          |                 |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |                  | TX N(HT40) Mode 2422 MHz |                 |                |        |        |
| N o.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Freq MHz | Polarity | Reading (dBuV/m) | Correct Factor           | Result (dBuV/m) | Limit (dBuV/m) | Margin | Remark |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2390     | H        | 75.42            | -21.47                   | 53.95           | 74.00          | -20.05 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2390     | H        | --               | -21.47                   | --              | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2400     | H        | 75.93            | -26.12                   | 49.81           | 74.00          | -24.19 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2400     | H        | --               | -26.12                   | --              | 54.00          | --     | Avg    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2390     | V        | 75.17            | -21.47                   | 53.7            | 74.00          | -20.30 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2390     | V        | --               | -21.47                   | --              | 54.00          | --     | Avg    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2400     | V        | 74.57            | -26.12                   | 48.45           | 74.00          | -25.55 | Peak   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2400     | V        | --               | -26.12                   | --              | 54.00          | --     | Avg    |
| Test Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |          |                  | PASS                     |                 |                |        |        |
| Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |                  | 2450MHz~2550MHz          |                 |                |        |        |
| Test Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |                  | TX N(HT40) Mode 2452 MHz |                 |                |        |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2483.5   | H        | 78.84            | -25.29                   | 53.55           | 74.00          | -20.45 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2483.5   | H        | --               | -25.29                   | --              | 54.00          | --     | Avg    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2483.5   | V        | 77.05            | -25.29                   | 51.76           | 74.00          | -22.24 | Peak   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2483.5   | V        | --               | -25.29                   | --              | 54.00          | --     | Avg    |
| <p>Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.</p> <p>2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.</p> <p>Result=Reading + Correct Factor.</p> <p>Margin= Result-Limit.</p> <p>3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.</p> |          |          |                  |                          |                 |                |        |        |

ABOVE 1000 MHz

Note: All the modes have been tested and recorded worst mode in the report.

Modulation Type:802.11b

Channel 1 / 2412 MHz

| Frequency | Ant.Pol.<br>H/V | Peak reading<br>(dBuV) | AV reading<br>(dBuV) | Correction Factor | Emission Level   |                | Peak Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) |
|-----------|-----------------|------------------------|----------------------|-------------------|------------------|----------------|------------------------|----------------------|----------------|
|           |                 |                        |                      |                   | Peak<br>(dBuV/m) | AV<br>(dBuV/m) |                        |                      |                |
| 4824.00   | H               | 53.01                  | ---                  | -1.88             | 51.13            | ---            | 74                     | 54                   | -22.87         |
| 7236.00   | H               | 45.61                  | ---                  | 7.8               | 53.41            | ---            | 74                     | 54                   | -20.59         |
| ---       | H               | ---                    | ---                  | ---               | ---              | ---            | ---                    | ---                  | ---            |
| 4824.00   | V               | 54.94                  | ---                  | -1.88             | 53.06            | ---            | 74                     | 54                   | -20.94         |
| 7236.00   | V               | 43.64                  | ---                  | 7.8               | 51.44            | ---            | 74                     | 54                   | -22.56         |
| ---       | V               | ---                    | ---                  | ---               | ---              | ---            | ---                    | ---                  | ---            |

Channel 6 / 2437 MHz

| Frequency | Ant.Pol.<br>H/V | Peak reading<br>(dBuV) | AV reading<br>(dBuV) | Correction Factor | Emission Level   |                | Peak Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) |
|-----------|-----------------|------------------------|----------------------|-------------------|------------------|----------------|------------------------|----------------------|----------------|
|           |                 |                        |                      |                   | Peak<br>(dBuV/m) | AV<br>(dBuV/m) |                        |                      |                |
| 4874.00   | H               | 55.31                  | ---                  | -1.59             | 53.72            | ---            | 74                     | 54                   | -20.28         |
| 7311.00   | H               | 43.57                  | ---                  | 8.1               | 51.67            | ---            | 74                     | 54                   | -22.33         |
| ---       | H               | ---                    | ---                  | ---               | ---              | ---            | ---                    | ---                  | ---            |
| 4874.00   | V               | 55.01                  | ---                  | -1.59             | 53.42            | ---            | 74                     | 54                   | -20.58         |
| 7311.00   | V               | 43.08                  | ---                  | 8.1               | 51.18            | ---            | 74                     | 54                   | -22.82         |
| ---       | V               | ---                    | ---                  | ---               | ---              | ---            | ---                    | ---                  | ---            |

Channel 11 / 2462 MHz

| Frequency | Ant.Pol.<br>H/V | Peak reading<br>(dBuV) | AV reading<br>(dBuV) | Correction Factor | Emission Level   |                | Peak Limit<br>(dBuV/m) | AV Limit<br>(dBuV/m) | Margin<br>(dB) |
|-----------|-----------------|------------------------|----------------------|-------------------|------------------|----------------|------------------------|----------------------|----------------|
|           |                 |                        |                      |                   | Peak<br>(dBuV/m) | AV<br>(dBuV/m) |                        |                      |                |
| 4924.00   | H               | 54.98                  | ---                  | -1.3              | 53.68            | ---            | 74                     | 54                   | -20.32         |
| 7386.00   | H               | 44.05                  | ---                  | 9                 | 53.05            | ---            | 74                     | 54                   | -20.95         |
| ---       | H               | ---                    | ---                  | ---               | ---              | ---            | ---                    | ---                  | ---            |
| 4924.00   | V               | 54.05                  | ---                  | -1.3              | 52.75            | ---            | 74                     | 54                   | -21.25         |
| 7386.00   | V               | 43.51                  | ---                  | 9                 | 52.51            | ---            | 74                     | 54                   | -21.49         |
| ---       | V               | ---                    | ---                  | ---               | ---              | ---            | ---                    | ---                  | ---            |

Notes:

- 1). Radiated emissions measured in frequency range from 9 KHz~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.
- 2). Data of measurement within this frequency range shown "—" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3). Worst case data at 1Mbps at IEEE 802.11b.
- 4). Measured Level = Reading Level + Factor, Margin = Measured Level – Limit

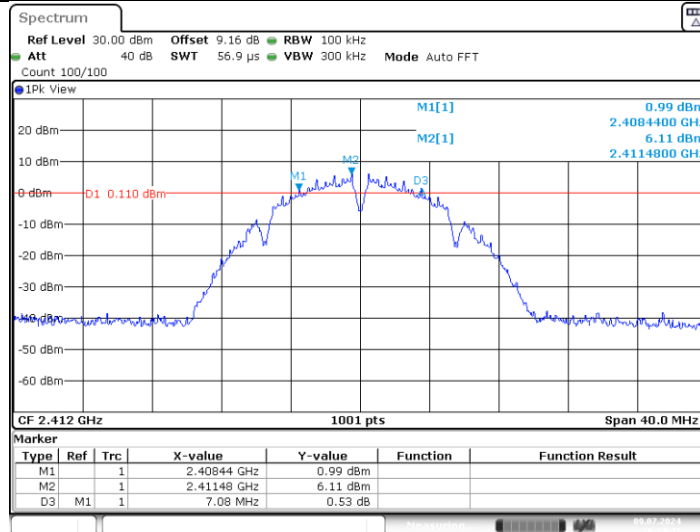
## APPENDIXE - BANDWIDTH

### 1. DTS Bandwidth

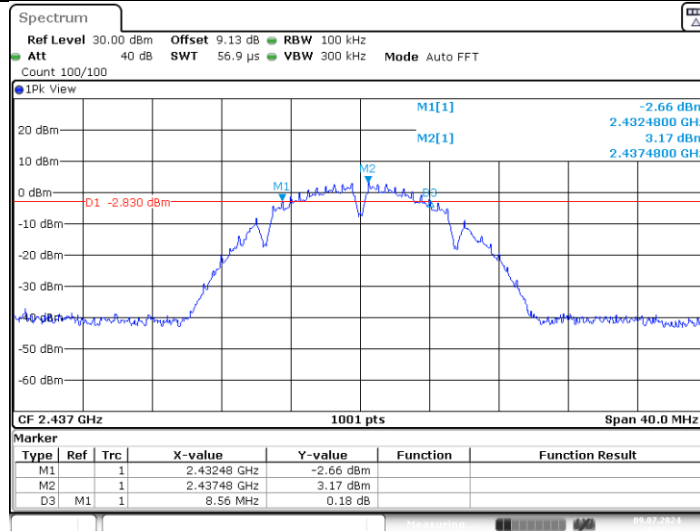
| TestMode  | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|---------|---------|------------|---------|
| 11B       | Ant1    | 2412           | 7.08         | 2408.44 | 2415.52 | 0.5        | PASS    |
|           |         | 2437           | 8.56         | 2432.48 | 2441.04 | 0.5        | PASS    |
|           |         | 2462           | 8.56         | 2457.48 | 2466.04 | 0.5        | PASS    |
| 11G       | Ant1    | 2412           | 15.12        | 2404.44 | 2419.56 | 0.5        | PASS    |
|           |         | 2437           | 16.32        | 2428.84 | 2445.16 | 0.5        | PASS    |
|           |         | 2462           | 16.32        | 2453.84 | 2470.16 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2412           | 15.24        | 2404.52 | 2419.76 | 0.5        | PASS    |
|           |         | 2437           | 16.08        | 2428.48 | 2444.56 | 0.5        | PASS    |
|           |         | 2462           | 17.60        | 2453.20 | 2470.80 | 0.5        | PASS    |
| 11N40SISO | Ant1    | 2422           | 34.16        | 2405.68 | 2439.84 | 0.5        | PASS    |
|           |         | 2437           | 35.68        | 2418.84 | 2454.52 | 0.5        | PASS    |
|           |         | 2452           | 28.80        | 2440.72 | 2469.52 | 0.5        | PASS    |

# Test Graphs

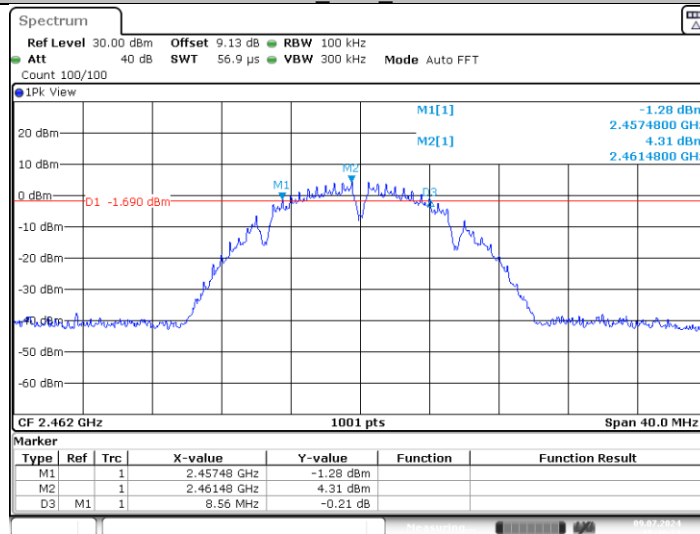
11B\_Ant1\_2412



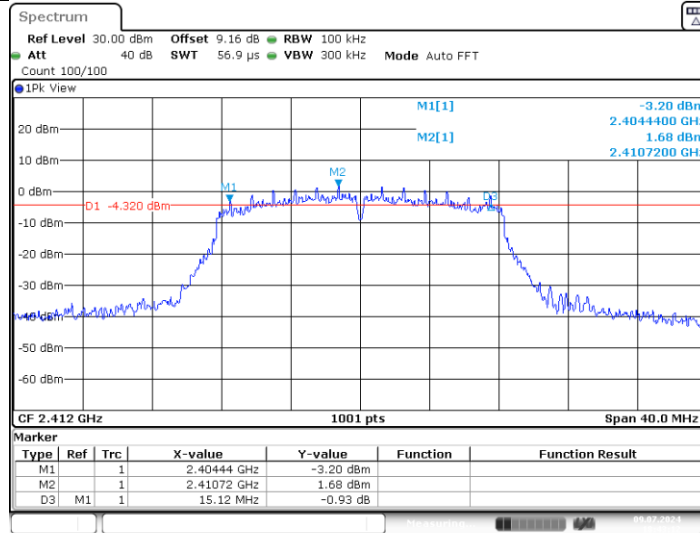
11B\_Ant1\_2437



11B\_Ant1\_2462

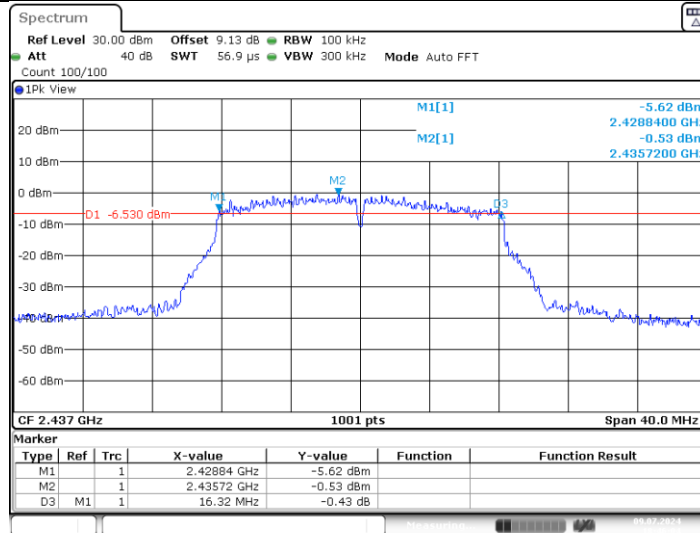


### 11G\_Ant1\_2412



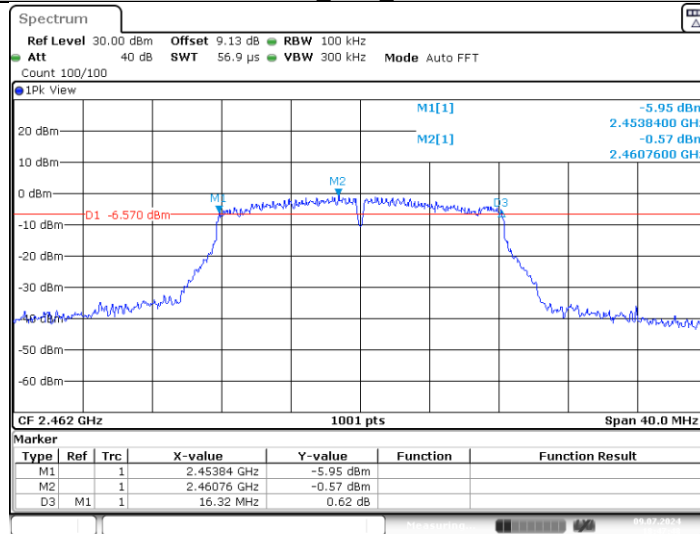
Date: 9.JUL.2024 18:43:13

### 11G\_Ant1\_2437



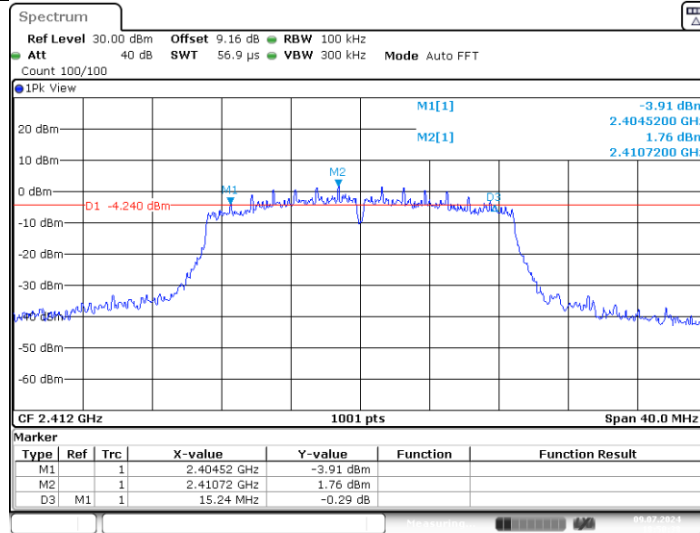
Date: 9.JUL.2024 18:46:05

### 11G\_Ant1\_2462

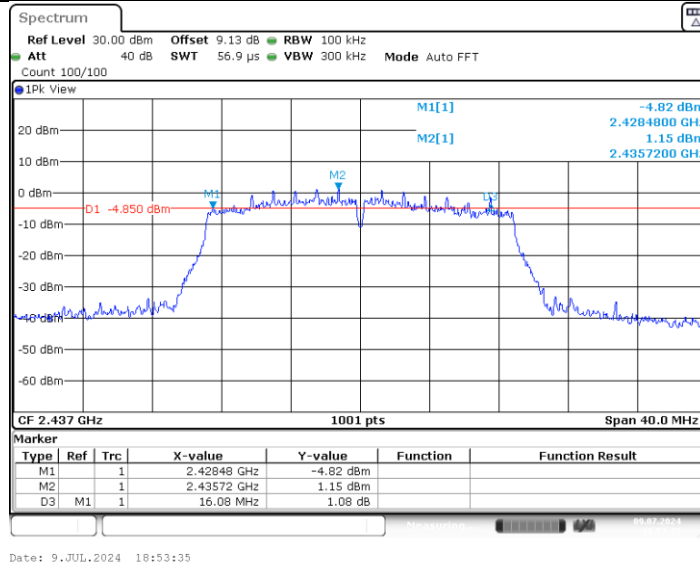


Date: 9.JUL.2024 18:47:48

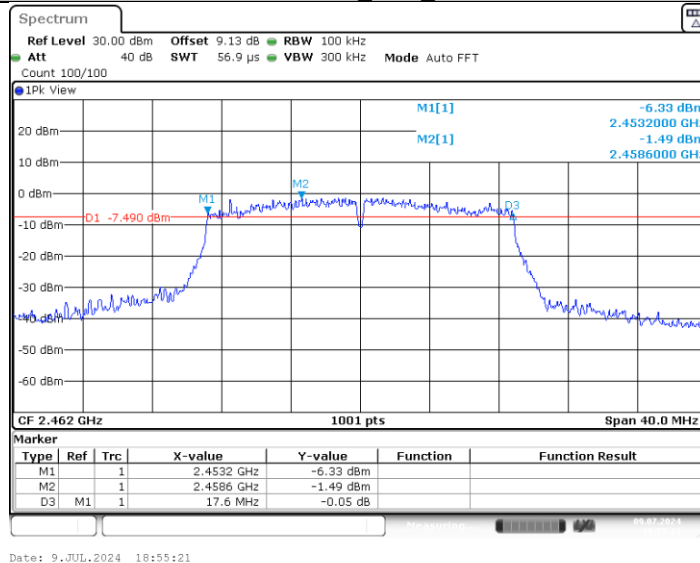
### 11N20SISO\_Ant1\_2412



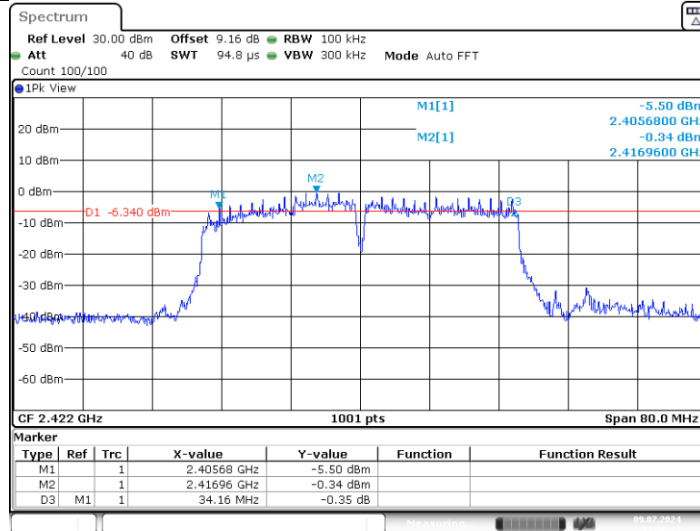
### 11N20SISO\_Ant1\_2437



### 11N20SISO\_Ant1\_2462

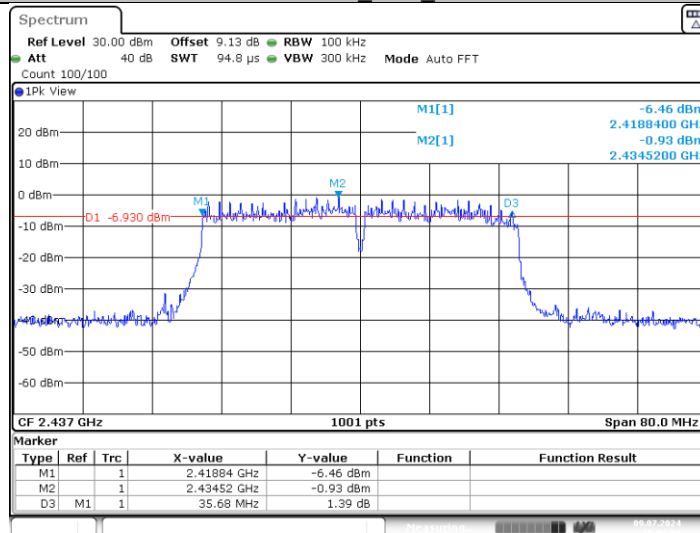


### 11N40SISO\_Ant1\_2422



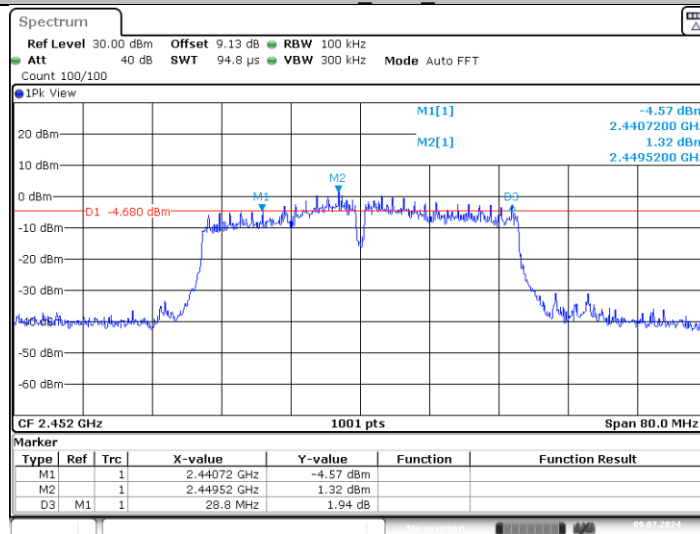
Date: 9.JUL.2024 18:58:14

### 11N40SISO\_Ant1\_2437



Date: 9.JUL.2024 19:01:08

### 11N40SISO\_Ant1\_2452



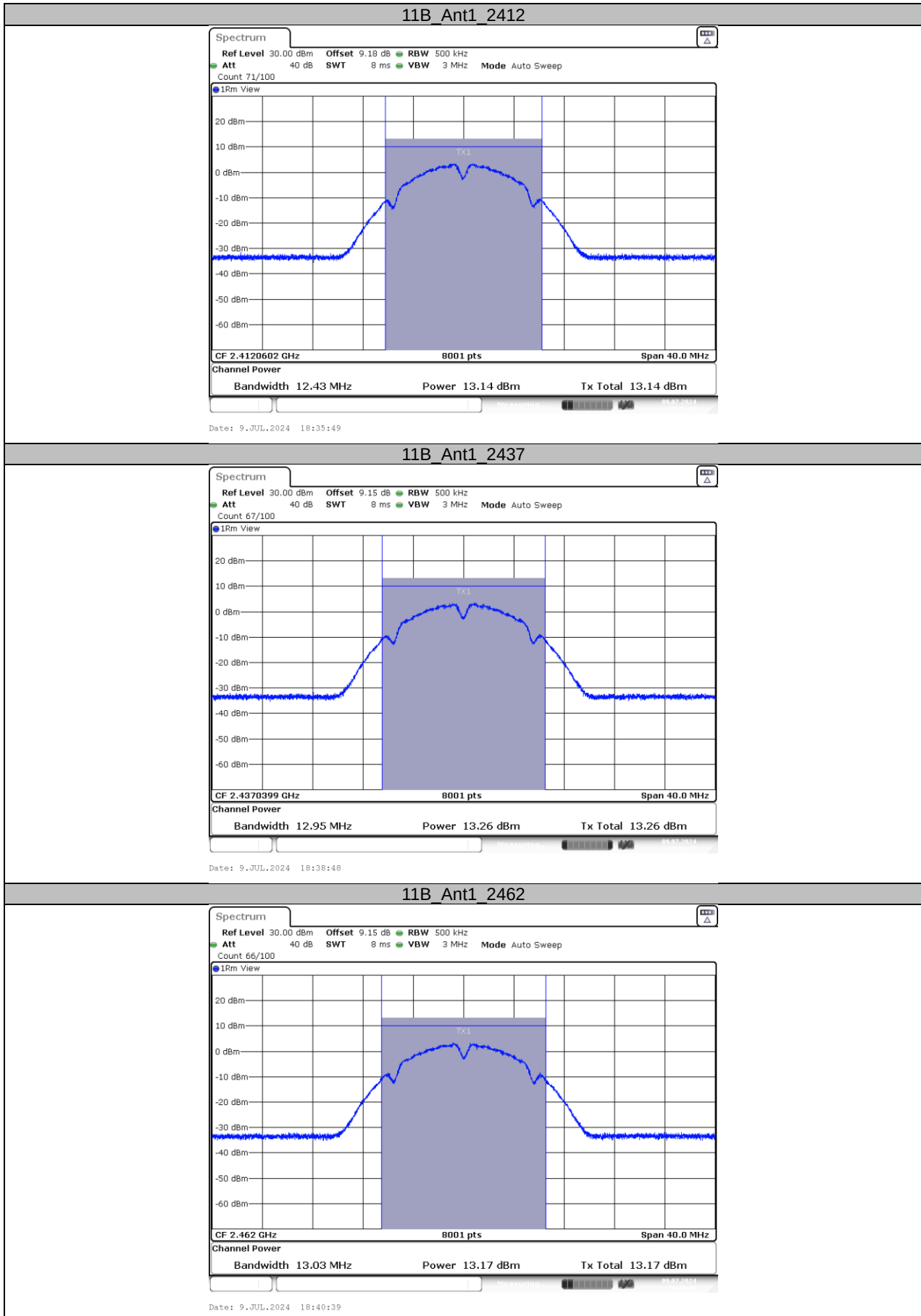
Date: 9.JUL.2024 19:02:43

## APPENDIXF - MAXIMUMOUTPUT POWER

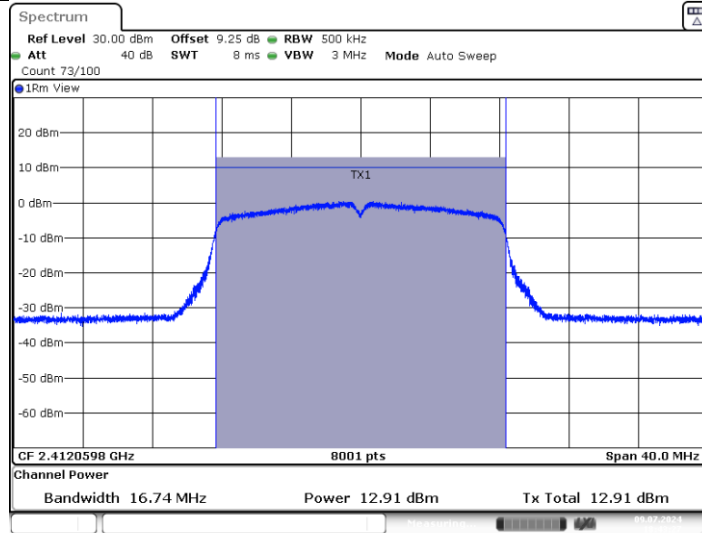
| Test Mode | Antenna | Frequency[MHz] | Average power [dBm] | Duty Cycle [%] | DC Factor [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|---------------------|----------------|-----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412           | 13.12               | 99.64          | 0.02            | 13.14        | ≤30.00      | PASS    |
|           |         | 2437           | 13.24               | 99.64          | 0.02            | 13.26        | ≤30.00      | PASS    |
|           |         | 2462           | 13.15               | 99.64          | 0.02            | 13.17        | ≤30.00      | PASS    |
| 11G       | Ant1    | 2412           | 12.82               | 97.90          | 0.09            | 12.91        | ≤30.00      | PASS    |
|           |         | 2437           | 12.83               | 97.90          | 0.09            | 12.92        | ≤30.00      | PASS    |
|           |         | 2462           | 12.95               | 97.20          | 0.12            | 13.07        | ≤30.00      | PASS    |
| 11N20SISO | Ant1    | 2412           | 12.82               | 97.74          | 0.10            | 12.92        | ≤30.00      | PASS    |
|           |         | 2437           | 12.69               | 97.74          | 0.10            | 12.79        | ≤30.00      | PASS    |
|           |         | 2462           | 12.78               | 97.01          | 0.13            | 12.91        | ≤30.00      | PASS    |
| 11N40SISO | Ant1    | 2422           | 12.09               | 94.20          | 0.26            | 12.35        | ≤30.00      | PASS    |
|           |         | 2437           | 12.10               | 94.20          | 0.26            | 12.36        | ≤30.00      | PASS    |
|           |         | 2452           | 12.22               | 95.59          | 0.20            | 12.42        | ≤30.00      | PASS    |

DC Factor=10\*log(1/ Duty Cycle)

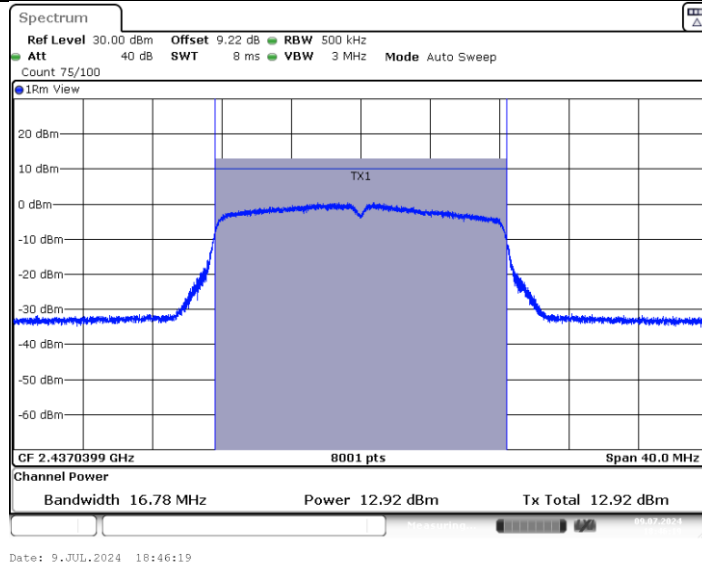
# TEST GRAPHS AVERAGE



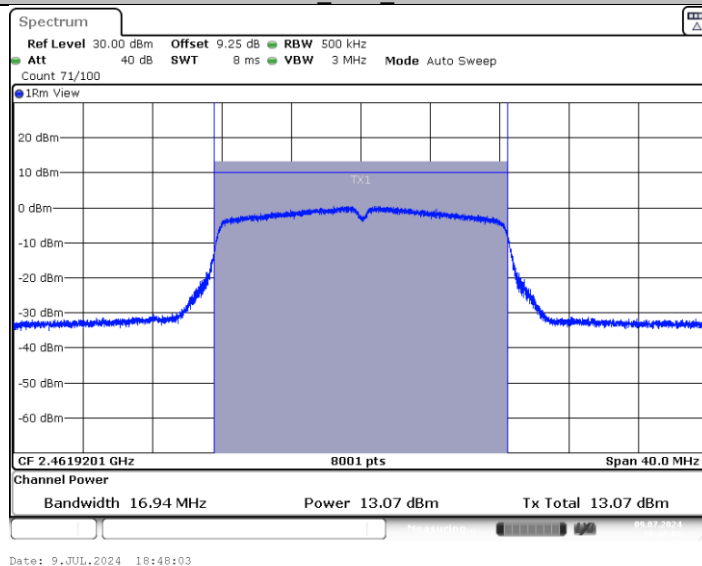
### 11G\_Ant1\_2412



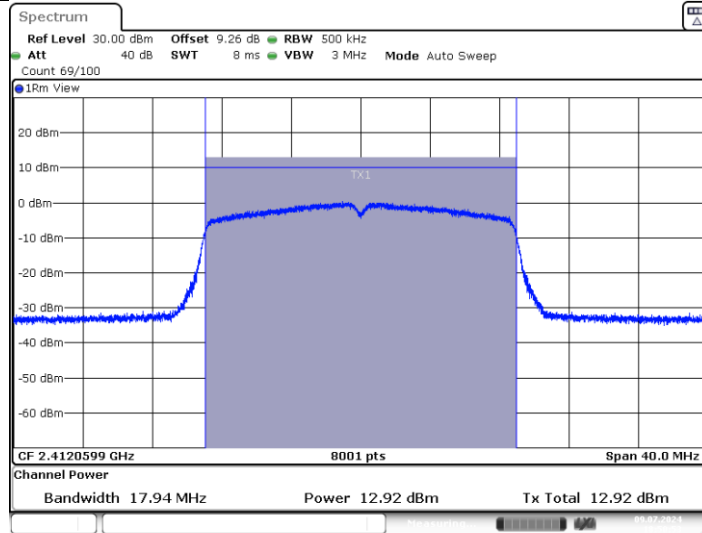
### 11G\_Ant1\_2437



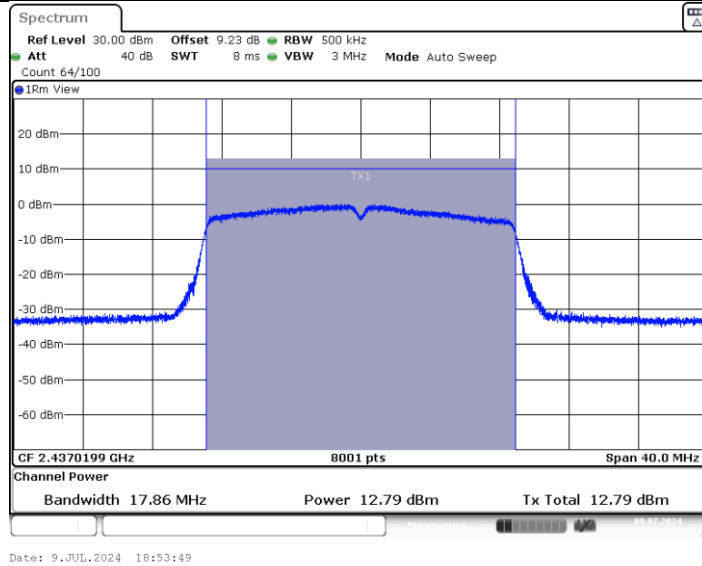
### 11G\_Ant1\_2462



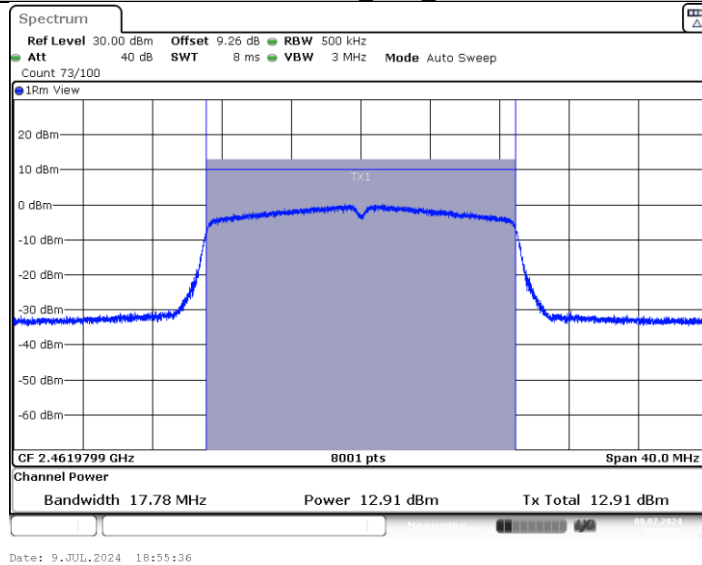
## 11N20SISO\_Ant1\_2412



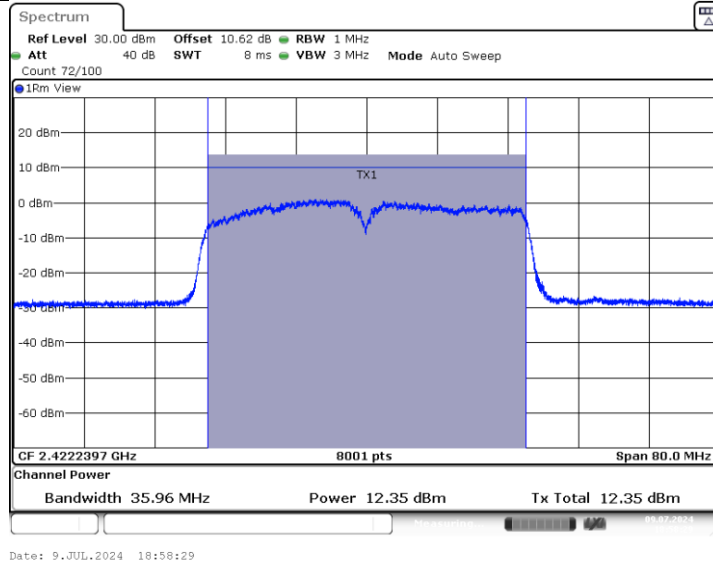
## 11N20SISO\_Ant1\_2437



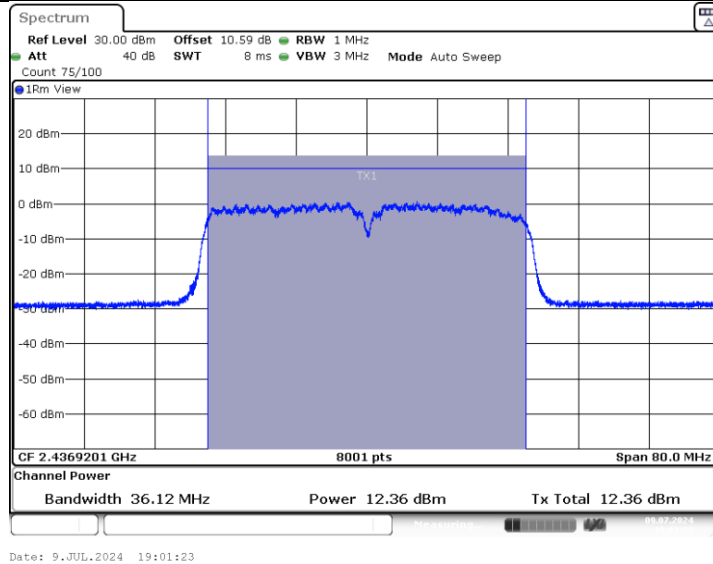
## 11N20SISO\_Ant1\_2462



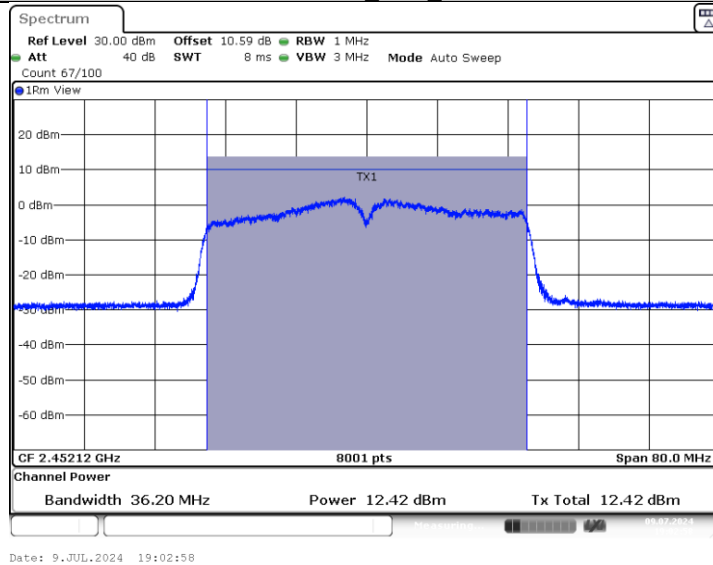
## 11N40SISO\_Ant1\_2422



## 11N40SISO\_Ant1\_2437



## 11N40SISO\_Ant1\_2452



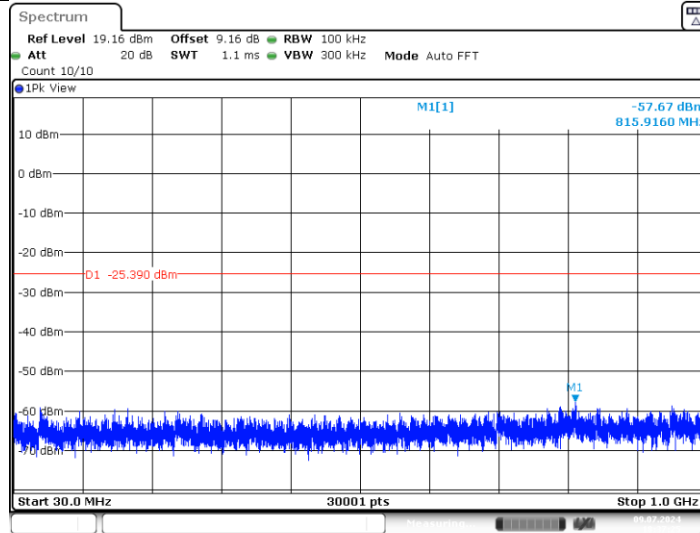
## APPENDIXG - CONDUCTED SPURIOUS EMISSIONS

### 1. Conducted Spurious Emission

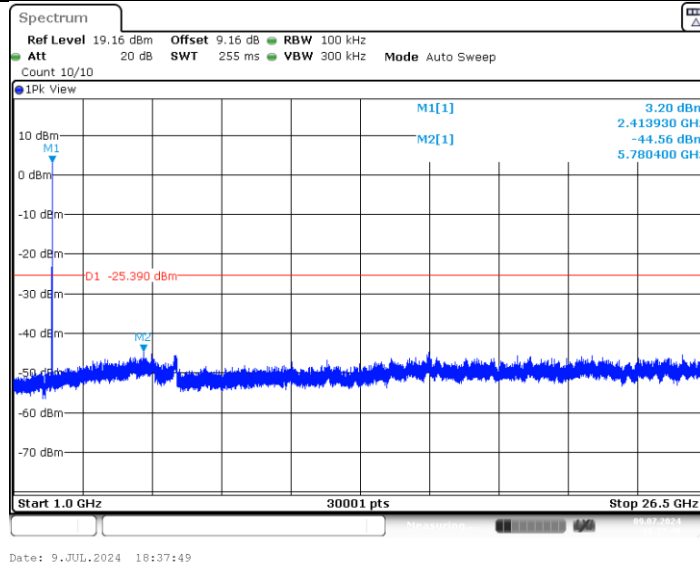
| TestMode  | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412           | 30~1000         | 4.61           | -57.67       | ≤-25.39     | PASS    |
|           |         |                | 1000~26500      | 4.61           | -44.56       | ≤-25.39     | PASS    |
|           |         | 2437           | 30~1000         | 4.69           | -57.98       | ≤-25.31     | PASS    |
|           |         |                | 1000~26500      | 4.69           | -44.1        | ≤-25.31     | PASS    |
|           |         | 2462           | 30~1000         | 4.66           | -57.73       | ≤-25.34     | PASS    |
|           |         |                | 1000~26500      | 4.66           | -44.59       | ≤-25.34     | PASS    |
| 11G       | Ant1    | 2412           | 30~1000         | 1.74           | -58.16       | ≤-28.26     | PASS    |
|           |         |                | 1000~26500      | 1.74           | -43.88       | ≤-28.26     | PASS    |
|           |         | 2437           | 30~1000         | 1.85           | -57.77       | ≤-28.15     | PASS    |
|           |         |                | 1000~26500      | 1.85           | -45.26       | ≤-28.15     | PASS    |
|           |         | 2462           | 30~1000         | 1.70           | -58.99       | ≤-28.3      | PASS    |
|           |         |                | 1000~26500      | 1.70           | -44.34       | ≤-28.3      | PASS    |
| 11N20SISO | Ant1    | 2412           | 30~1000         | 1.97           | -39.94       | ≤-28.03     | PASS    |
|           |         |                | 1000~26500      | 1.97           | -44.85       | ≤-28.03     | PASS    |
|           |         | 2437           | 30~1000         | 2.13           | -58.74       | ≤-27.87     | PASS    |
|           |         |                | 1000~26500      | 2.13           | -44.84       | ≤-27.87     | PASS    |
|           |         | 2462           | 30~1000         | 2.34           | -57.83       | ≤-27.66     | PASS    |
|           |         |                | 1000~26500      | 2.34           | -39.2        | ≤-27.66     | PASS    |
| 11N40SISO | Ant1    | 2422           | 30~1000         | 0.30           | -58.8        | ≤-29.7      | PASS    |
|           |         |                | 1000~26500      | 0.30           | -44.98       | ≤-29.7      | PASS    |
|           |         | 2437           | 30~1000         | -0.94          | -57.45       | ≤-30.94     | PASS    |
|           |         |                | 1000~26500      | -0.94          | -42.1        | ≤-30.94     | PASS    |
|           |         | 2452           | 30~1000         | 1.34           | -58.19       | ≤-28.66     | PASS    |
|           |         |                | 1000~26500      | 1.34           | -45.4        | ≤-28.66     | PASS    |

# Test Graphs

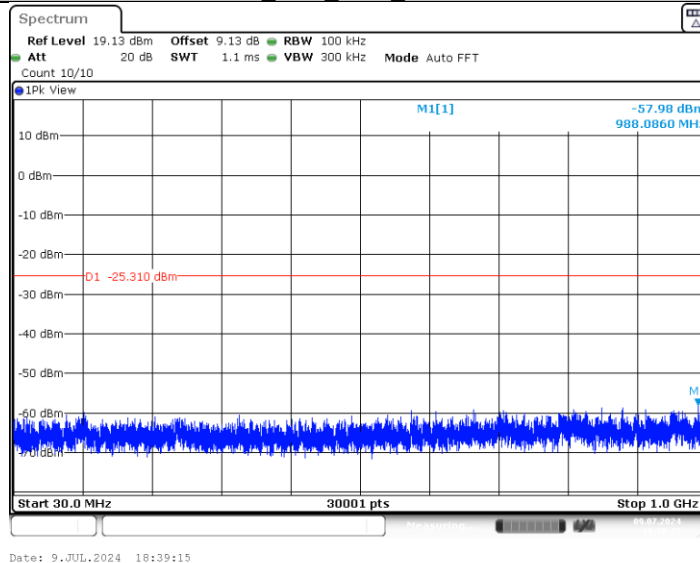
## 11B\_Ant1\_2412\_30~1000



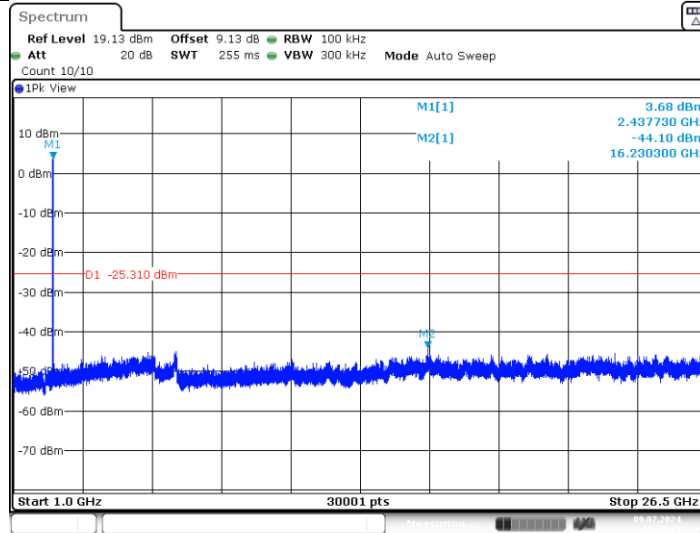
## 11B\_Ant1\_2412\_1000~26500



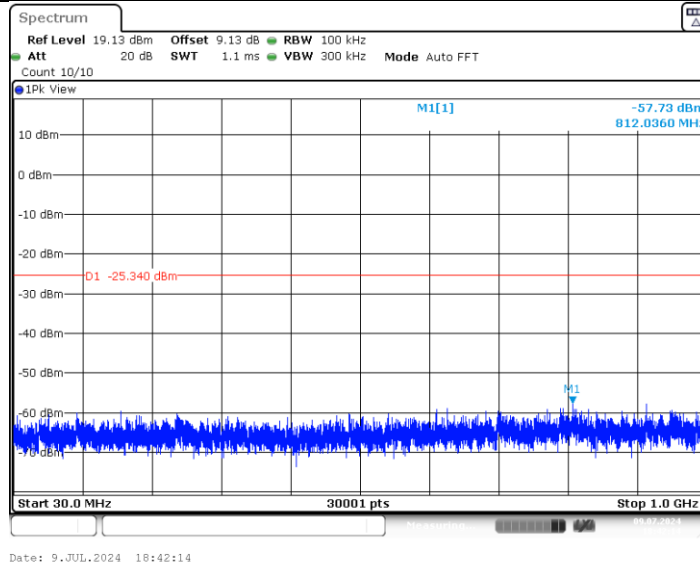
## 11B\_Ant1\_2437\_30~1000



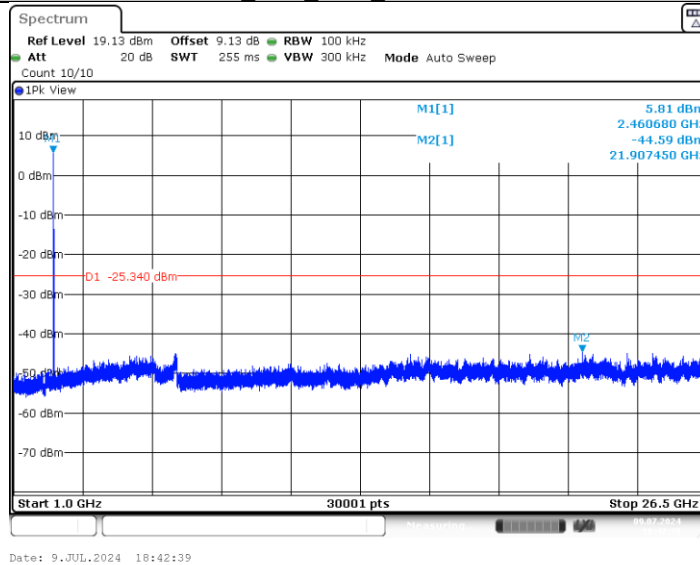
## 11B\_Ant1\_2437\_1000~26500



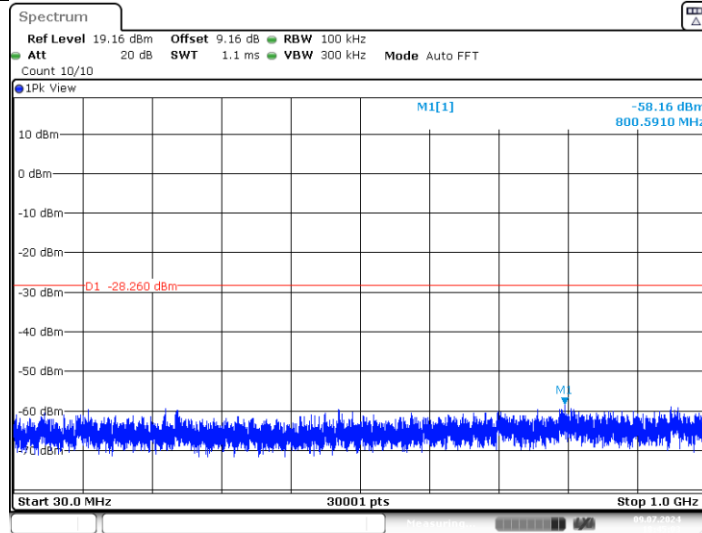
## 11B\_Ant1\_2462\_30~1000



## 11B\_Ant1\_2462\_1000~26500

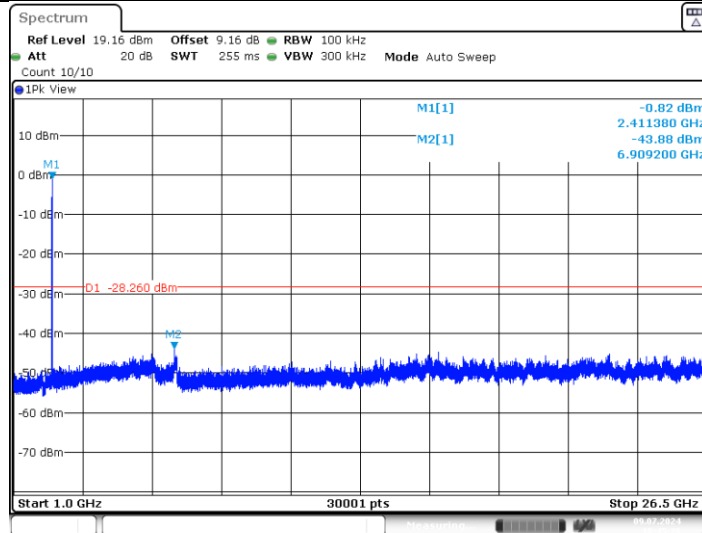


## 11G\_Ant1\_2412\_30~1000



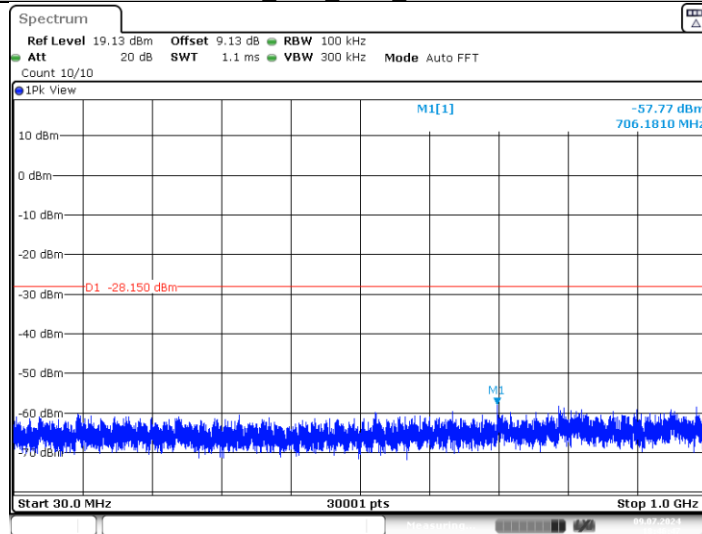
Date: 9.JUL.2024 18:45:03

## 11G\_Ant1\_2412\_1000~26500



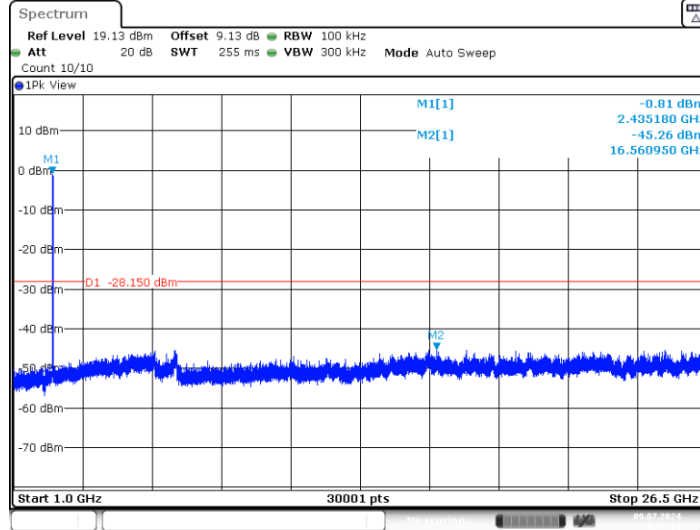
Date: 9.JUL.2024 18:45:28

## 11G\_Ant1\_2437\_30~1000

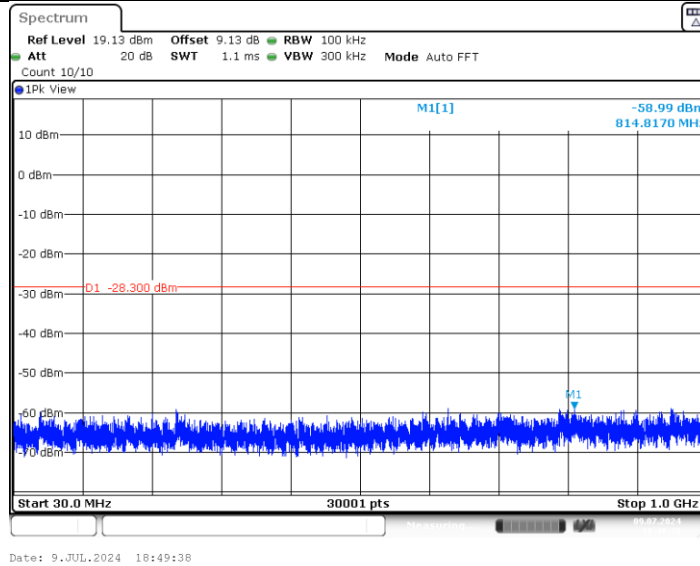


Date: 9.JUL.2024 18:46:46

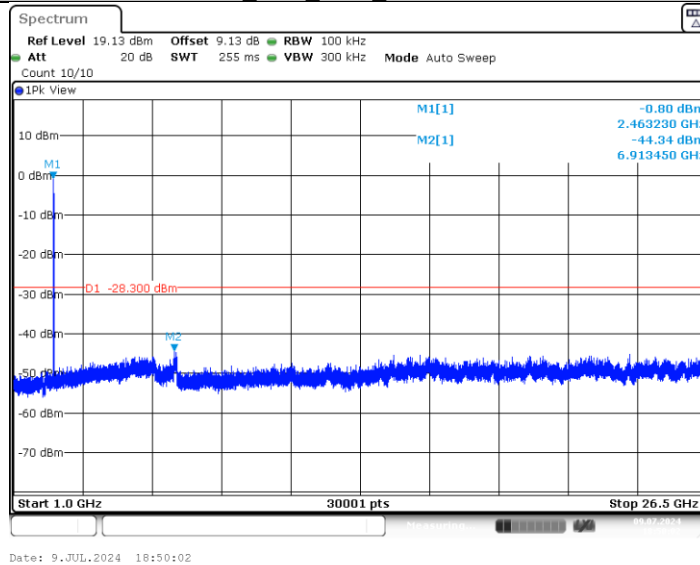
## 11G\_Ant1\_2437\_1000~26500



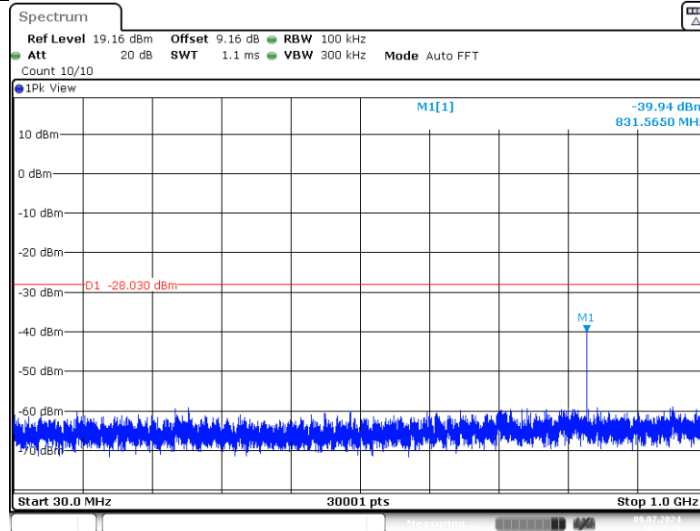
## 11G\_Ant1\_2462\_30~1000



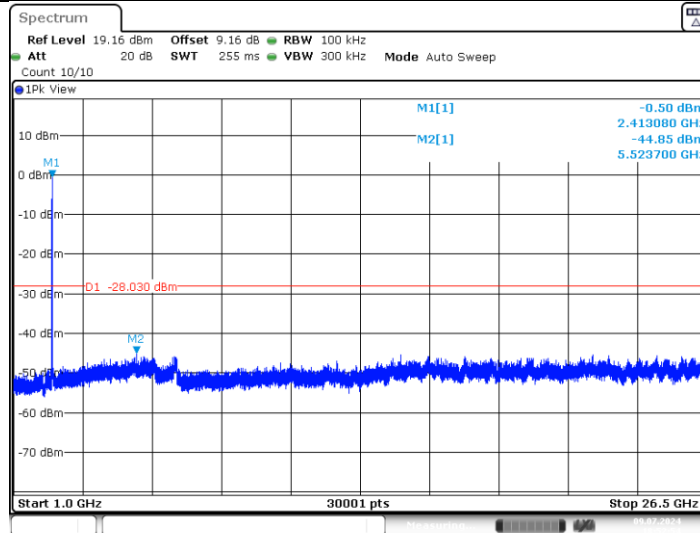
## 11G\_Ant1\_2462\_1000~26500



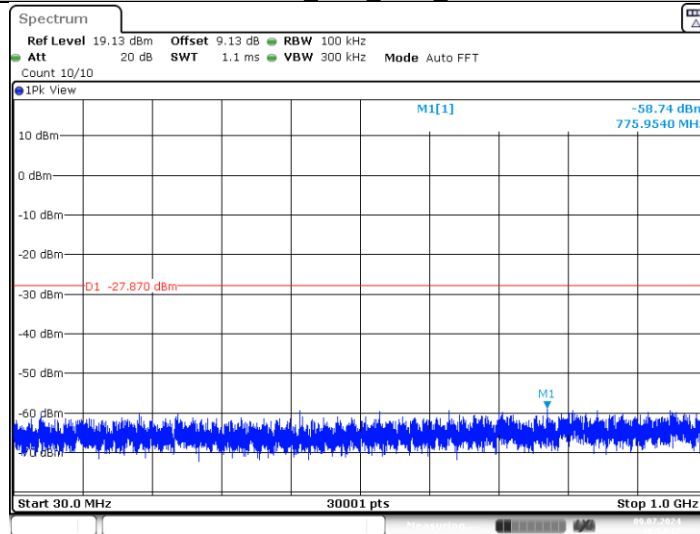
## 11N20SISO\_Ant1\_2412\_30~1000



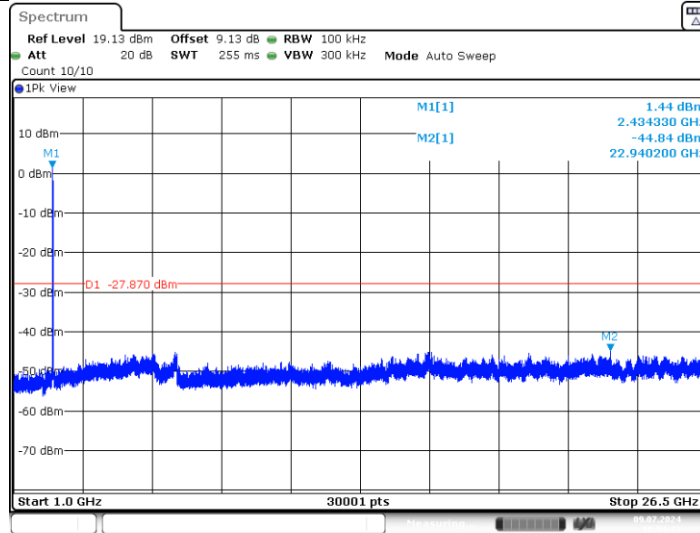
## 11N20SISO\_Ant1\_2412\_1000~26500



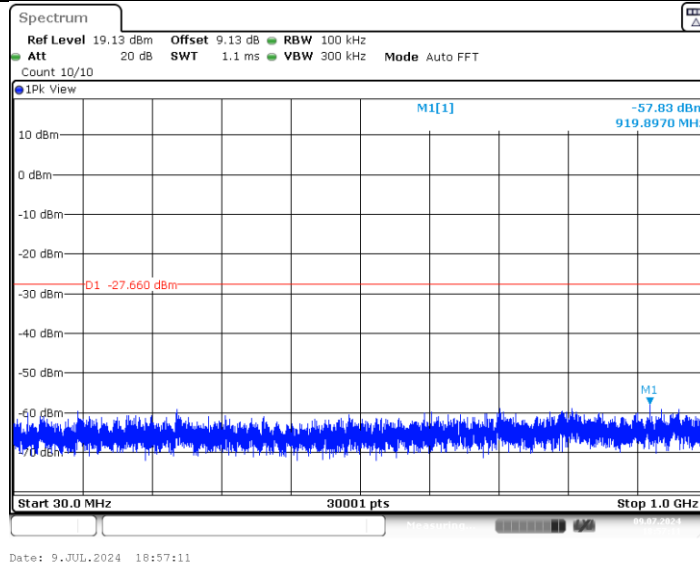
## 11N20SISO\_Ant1\_2437\_30~1000



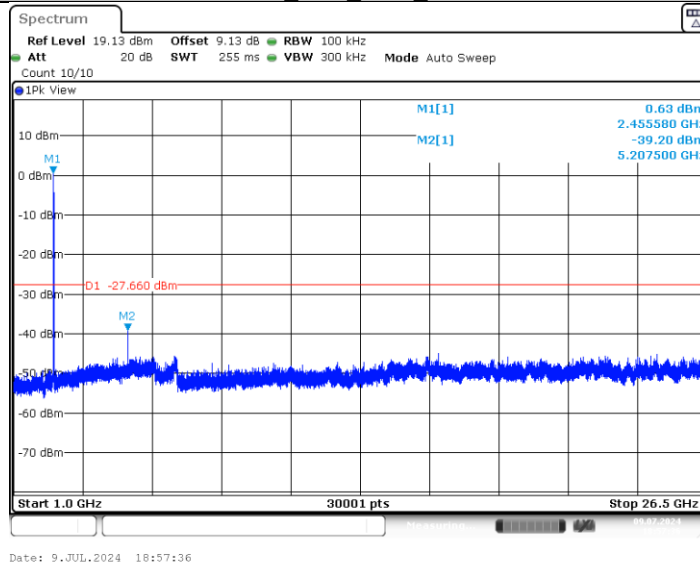
## 11N20SISO\_Ant1\_2437\_1000~26500



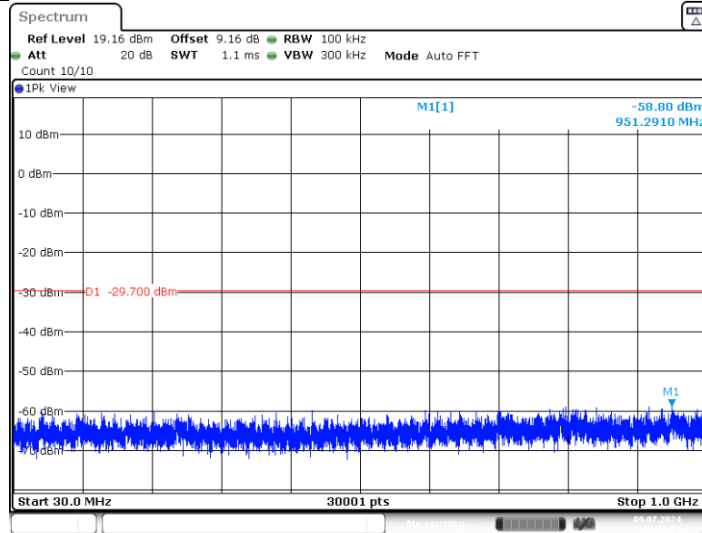
## 11N20SISO\_Ant1\_2462\_30~1000



## 11N20SISO\_Ant1\_2462\_1000~26500

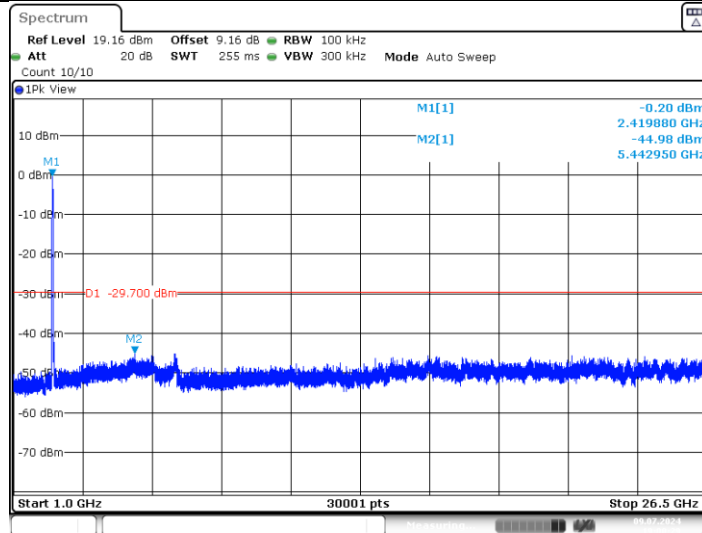


### 11N40SISO\_Ant1\_2422\_30~1000



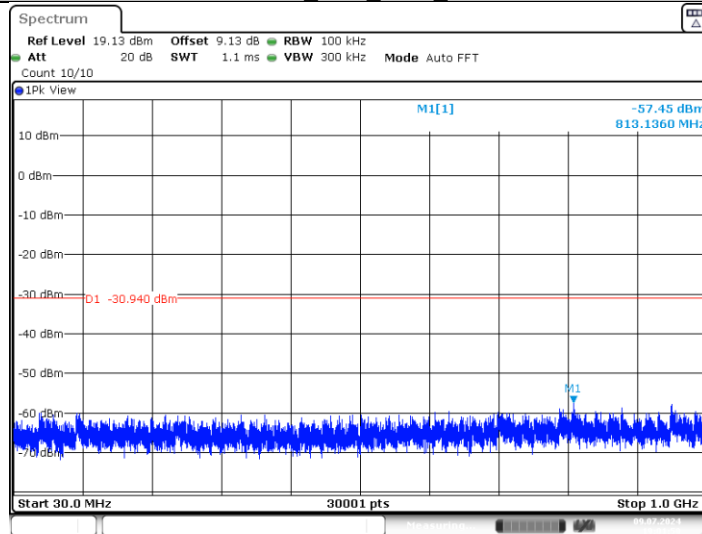
Date: 9.JUL.2024 19:00:04

### 11N40SISO\_Ant1\_2422\_1000~26500



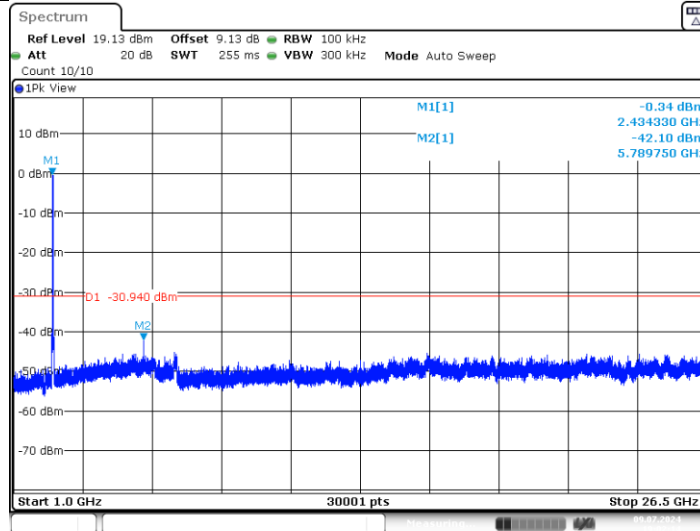
Date: 9.JUL.2024 19:00:29

### 11N40SISO\_Ant1\_2437\_30~1000



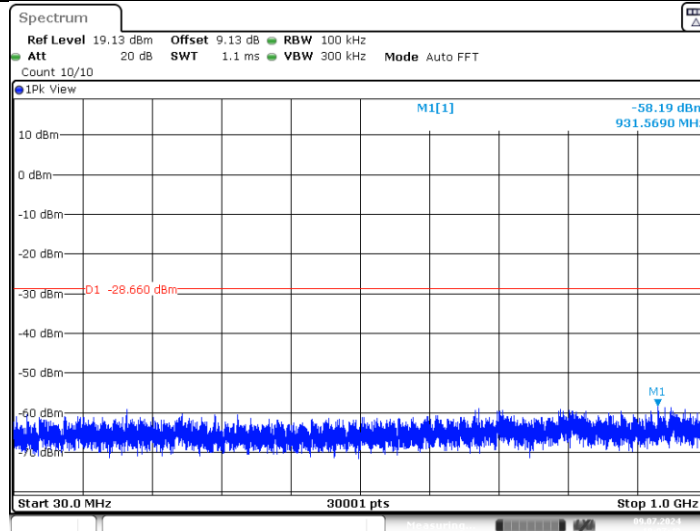
Date: 9.JUL.2024 19:01:50

## 11N40SISO\_Ant1\_2437\_1000~26500



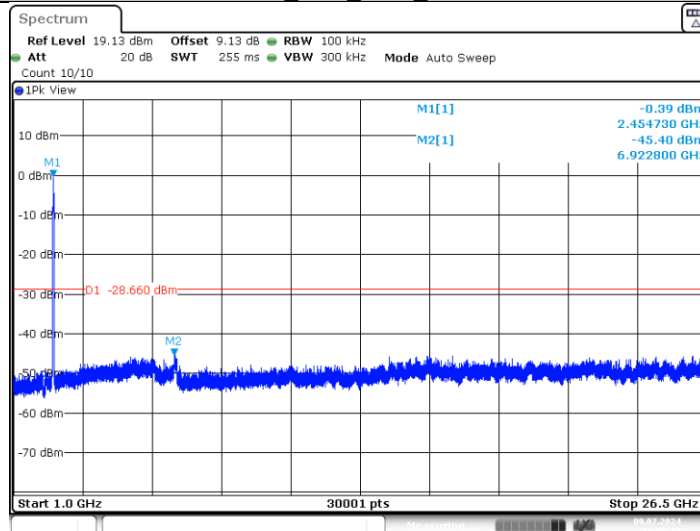
Date: 9.JUL.2024 19:02:15

## 11N40SISO\_Ant1\_2452\_30~1000



Date: 9.JUL.2024 19:07:49

## 11N40SISO\_Ant1\_2452\_1000~26500



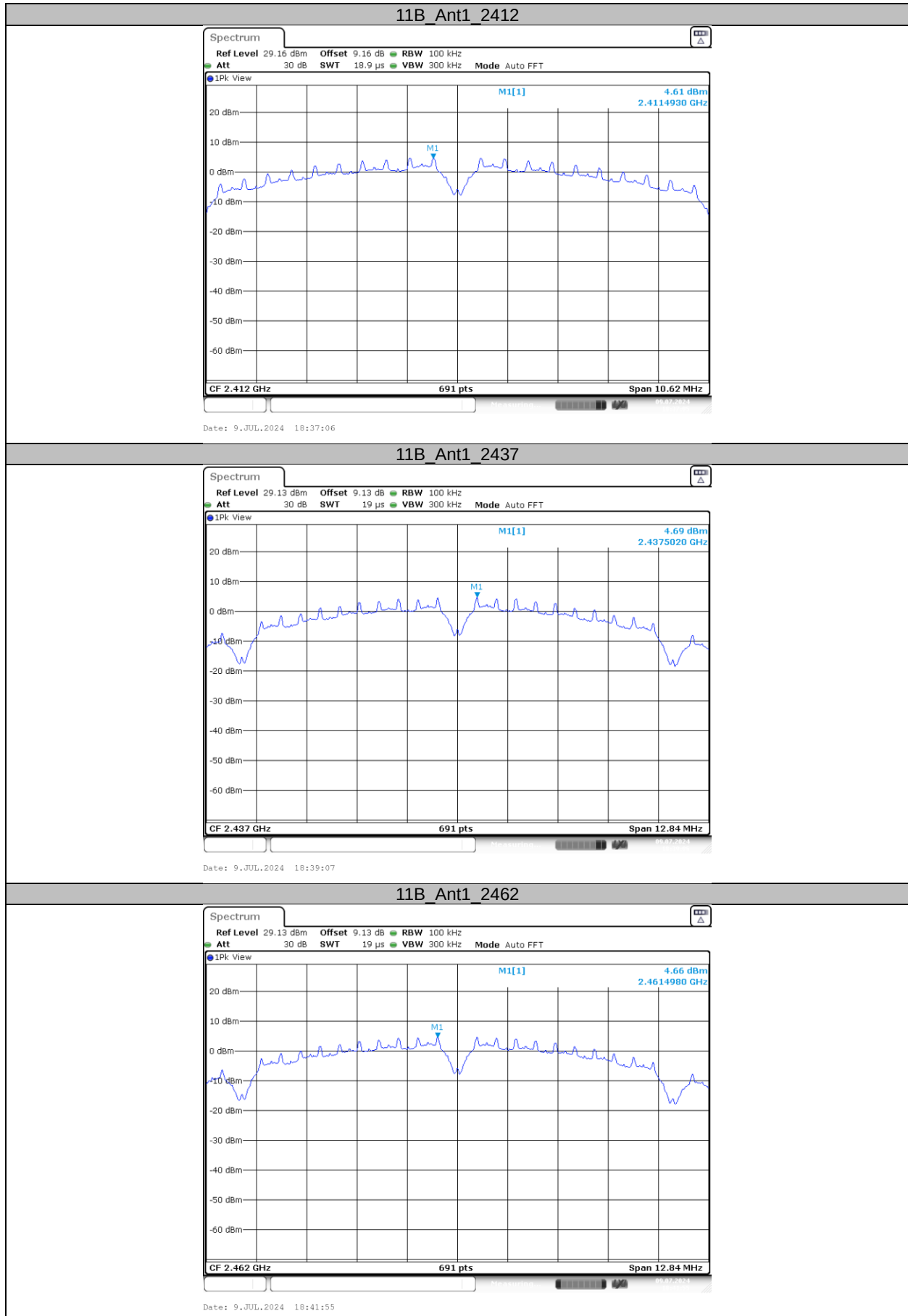
Date: 9.JUL.2024 19:08:14

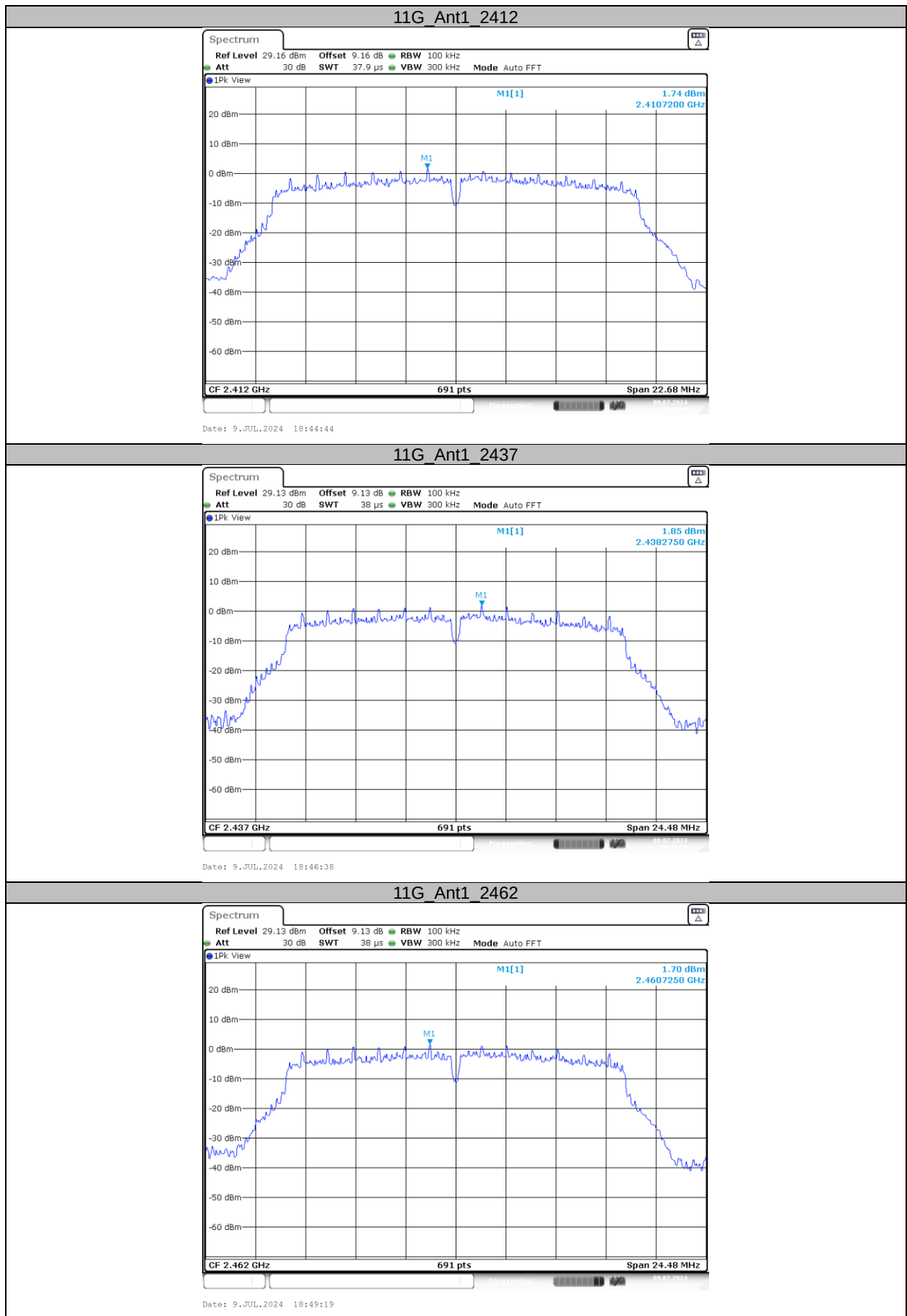
## 2. Band edge measurements

### Reference level measurement

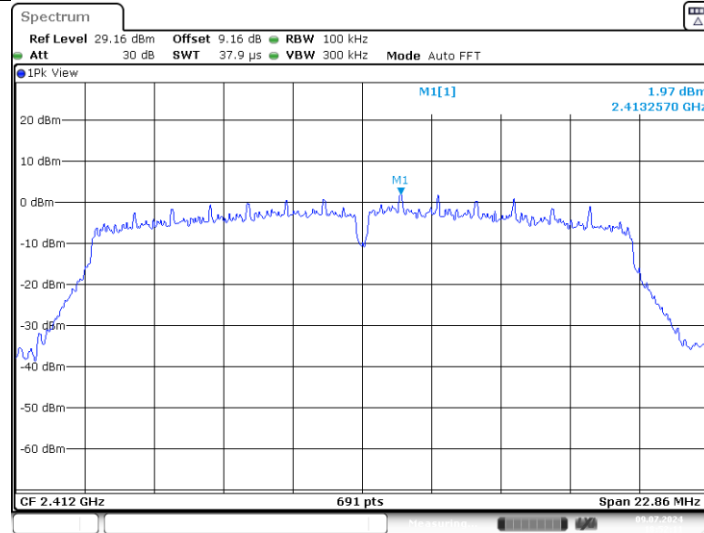
| TestMode  | Antenna | Freq(MHz) | Max.Point[MHz] | Result[dBm] |
|-----------|---------|-----------|----------------|-------------|
| 11B       | Ant1    | 2412      | 2411.49        | 4.61        |
|           |         | 2437      | 2437.50        | 4.69        |
|           |         | 2462      | 2461.50        | 4.66        |
| 11G       | Ant1    | 2412      | 2410.72        | 1.74        |
|           |         | 2437      | 2438.28        | 1.85        |
|           |         | 2462      | 2460.73        | 1.70        |
| 11N20SISO | Ant1    | 2412      | 2413.26        | 1.97        |
|           |         | 2437      | 2438.26        | 2.13        |
|           |         | 2462      | 2463.26        | 2.34        |
| 11N40SISO | Ant1    | 2422      | 2416.96        | 0.30        |
|           |         | 2437      | 2441.96        | -0.94       |
|           |         | 2452      | 2449.50        | 1.34        |

# TEST GRAPHS



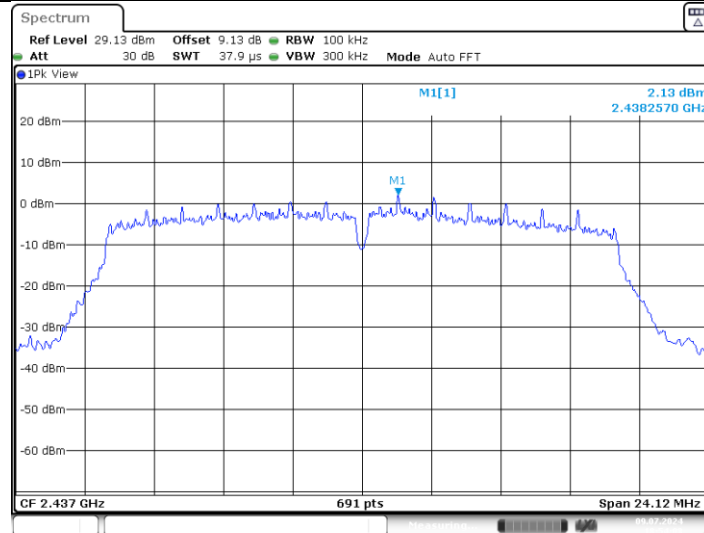


## 11N20SISO\_Ant1\_2412



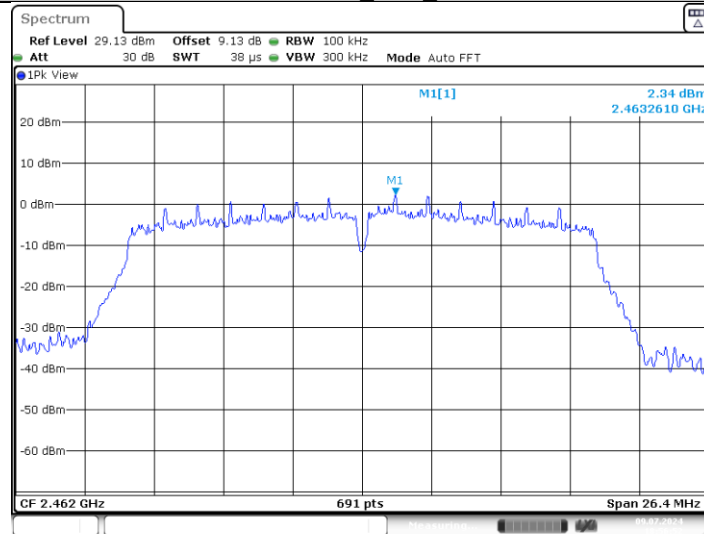
Date: 9.JUL.2024 18:52:10

## 11N20SISO\_Ant1\_2437



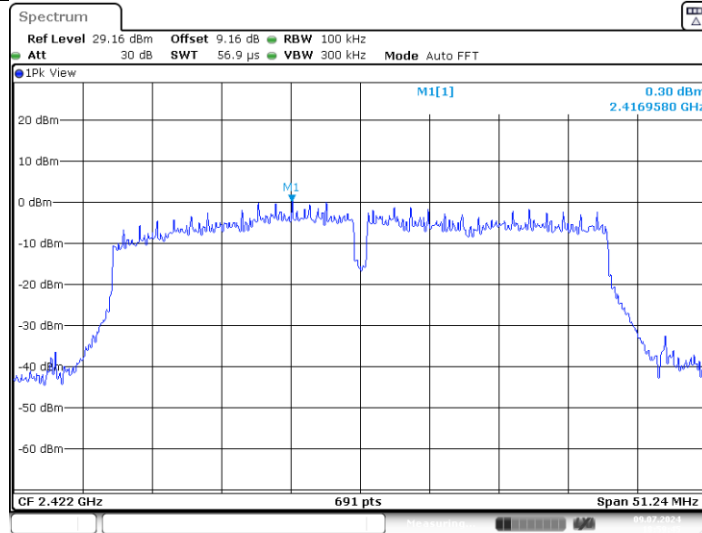
Date: 9.JUL.2024 18:54:08

## 11N20SISO\_Ant1\_2462

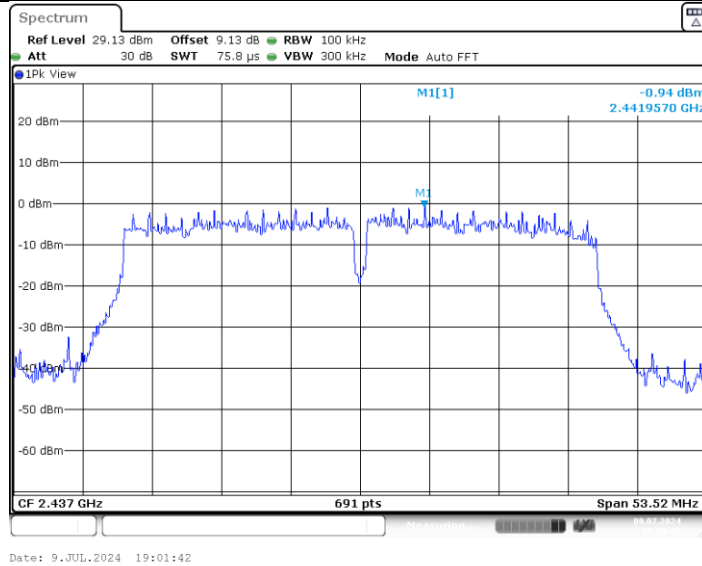


Date: 9.JUL.2024 18:56:52

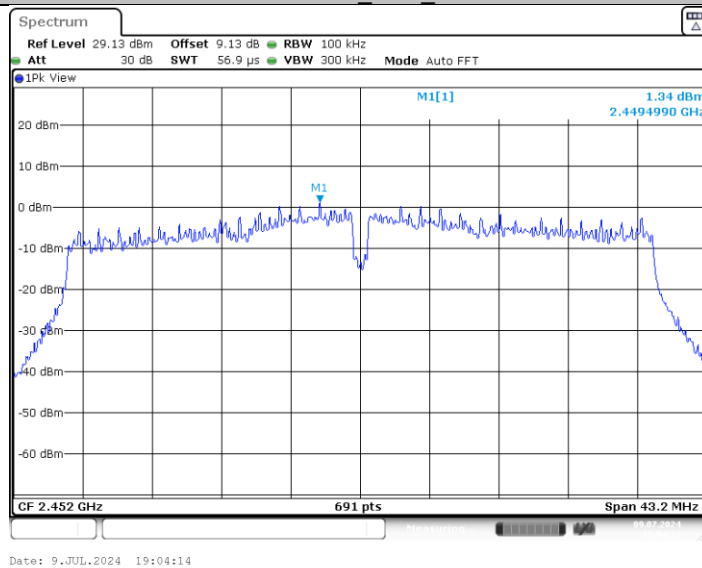
## 11N40SISO\_Ant1\_2422



## 11N40SISO\_Ant1\_2437



## 11N40SISO\_Ant1\_2452



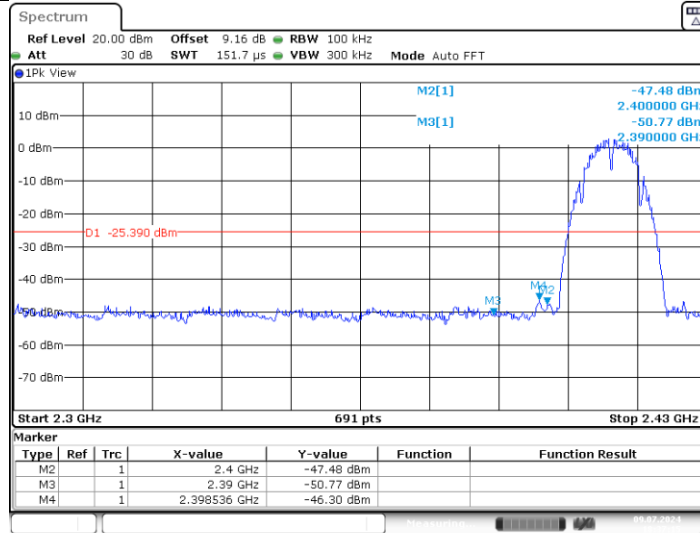
Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

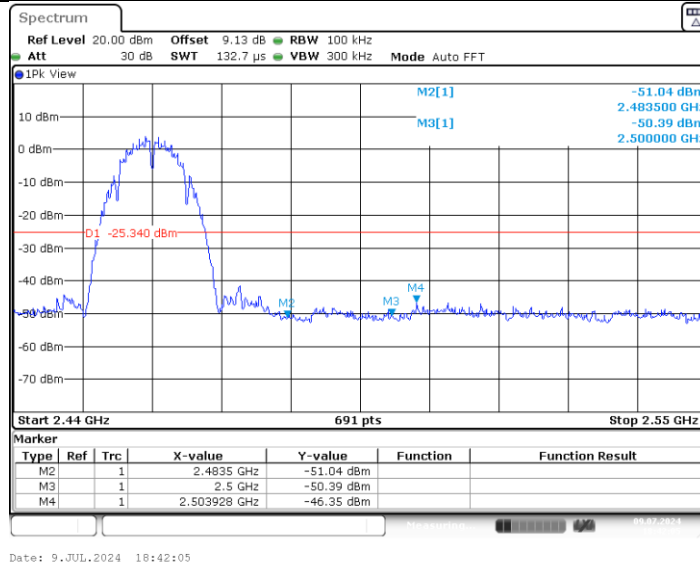
# Band edge measurements

| TestMode  | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------|----------------|---------------|-------------|------------|---------|
| 11B       | Ant1    | Low    | 2412           | 4.61          | -46.3       | ≤-25.39    | PASS    |
|           |         | High   | 2462           | 4.66          | -46.35      | ≤-25.34    | PASS    |
| 11G       | Ant1    | Low    | 2412           | 1.74          | -37.05      | ≤-28.26    | PASS    |
|           |         | High   | 2462           | 1.70          | -46.98      | ≤-28.3     | PASS    |
| 11N20SISO | Ant1    | Low    | 2412           | 1.97          | -34.66      | ≤-28.03    | PASS    |
|           |         | High   | 2462           | 2.34          | -47.1       | ≤-27.66    | PASS    |
| 11N40SISO | Ant1    | Low    | 2422           | 0.30          | -35.77      | ≤-29.7     | PASS    |
|           |         | High   | 2452           | 1.34          | -38.06      | ≤-28.66    | PASS    |

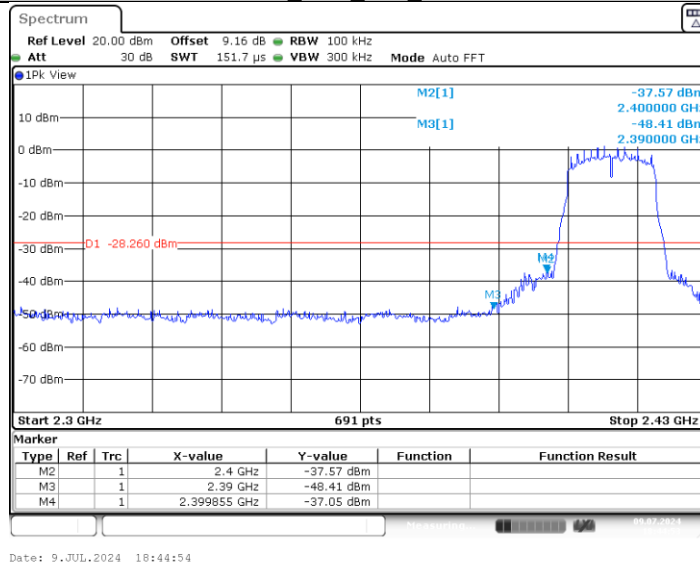
### 11B\_Ant1\_Low\_2412



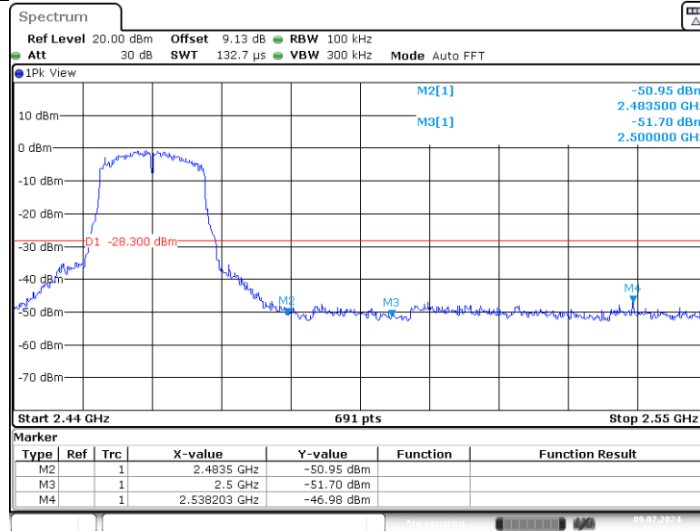
### 11B\_Ant1\_High\_2462



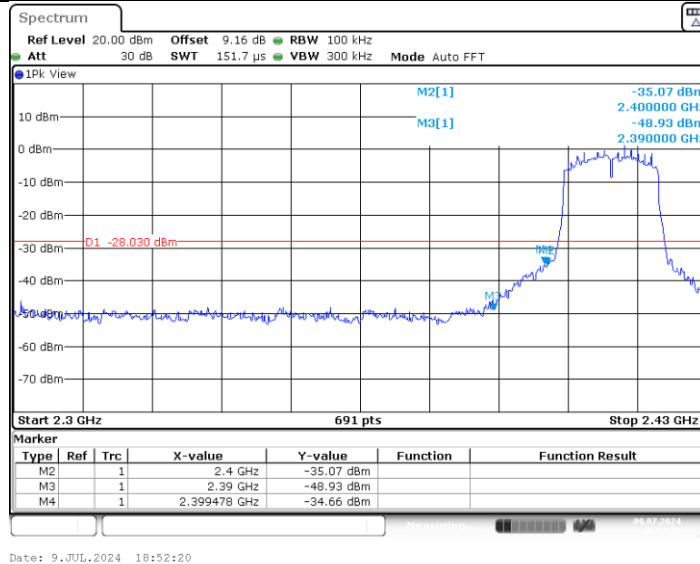
### 11G\_Ant1\_Low\_2412



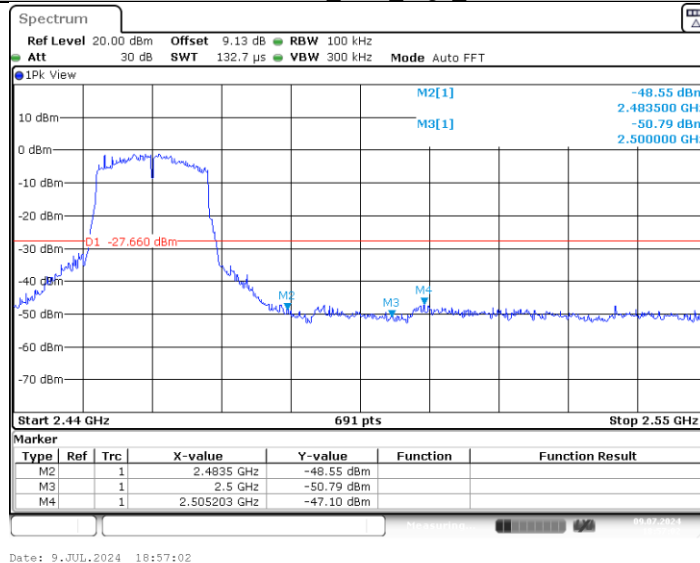
### 11G Ant1 High 2462



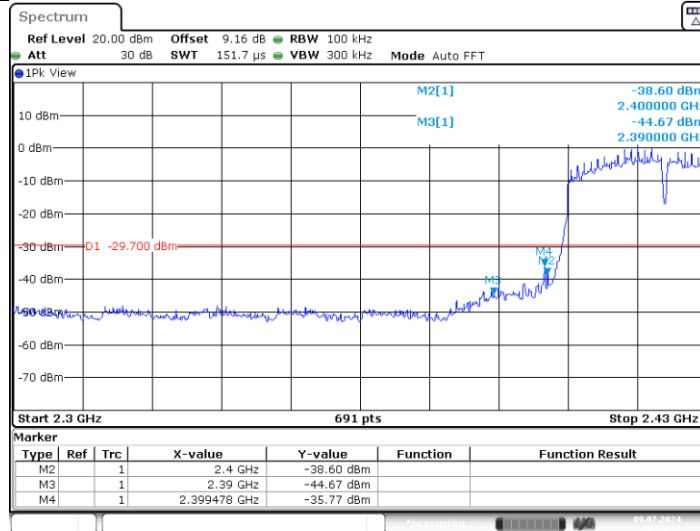
### 11N20SISO Ant1 Low 2412



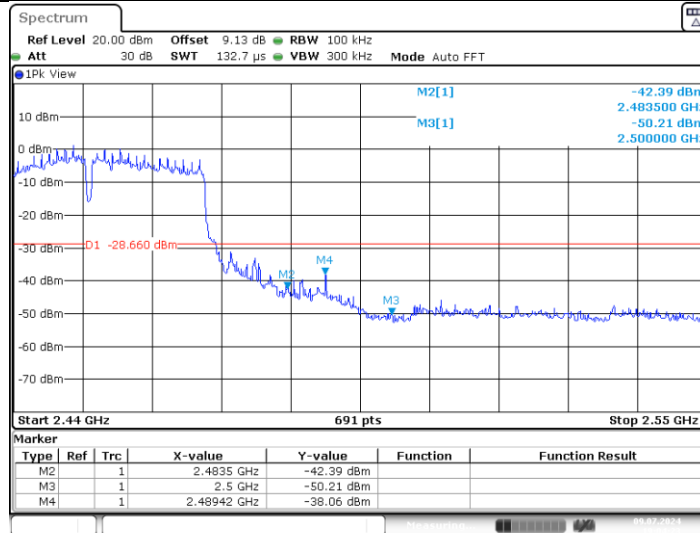
### 11N20SISO Ant1 High 2462



### 11N40SISO\_Ant1\_Low\_2422



### 11N40SISO\_Ant1\_High\_2452

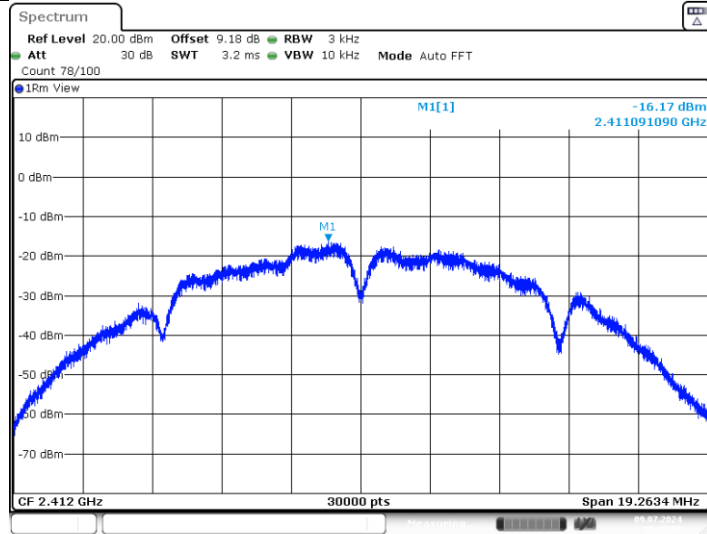


## APPENDIXH - POWER SPECTRAL DENSITY

| TestMode  | Antenna | Frequency[MHz] | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|----------------------|-----------------|---------|
| 11B       | Ant1    | 2412           | -16.17               | ≤8.00           | PASS    |
|           |         | 2437           | -16.93               | ≤8.00           | PASS    |
|           |         | 2462           | -16.45               | ≤8.00           | PASS    |
| 11G       | Ant1    | 2412           | -18.47               | ≤8.00           | PASS    |
|           |         | 2437           | -18.65               | ≤8.00           | PASS    |
|           |         | 2462           | -18.29               | ≤8.00           | PASS    |
| 11N20SISO | Ant1    | 2412           | -17.92               | ≤8.00           | PASS    |
|           |         | 2437           | -18.76               | ≤8.00           | PASS    |
|           |         | 2462           | -19.08               | ≤8.00           | PASS    |
| 11N40SISO | Ant1    | 2422           | -13.90               | ≤8.00           | PASS    |
|           |         | 2437           | -15.71               | ≤8.00           | PASS    |
|           |         | 2452           | -13.84               | ≤8.00           | PASS    |

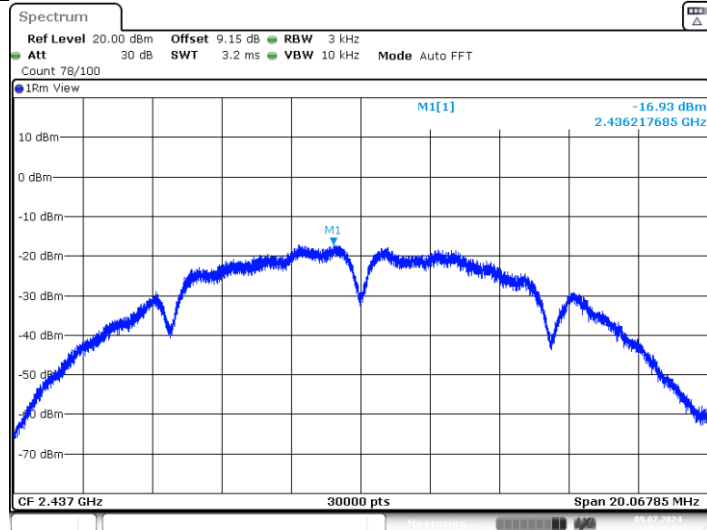
# Test Graphs

11B\_Ant1\_2412



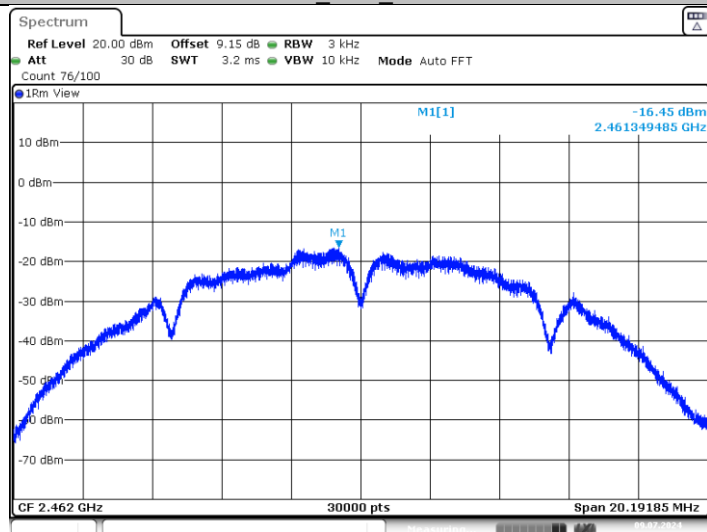
Date: 9.JUL.2024 18:35:59

11B\_Ant1\_2437



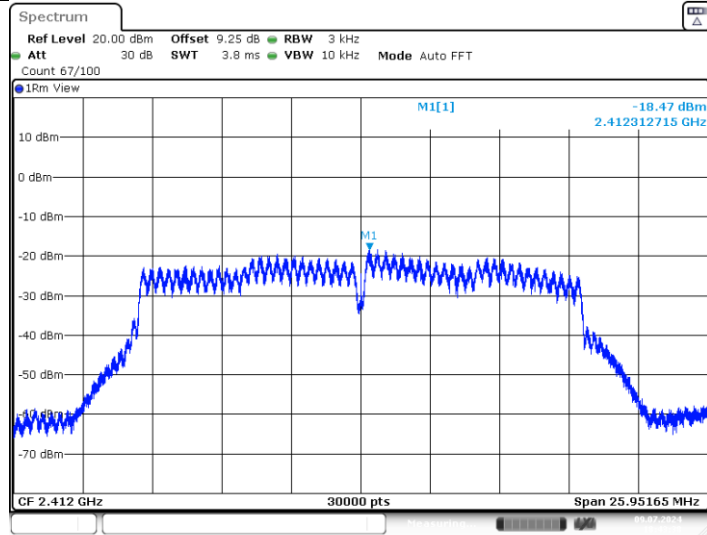
Date: 9.JUL.2024 18:38:58

11B\_Ant1\_2462

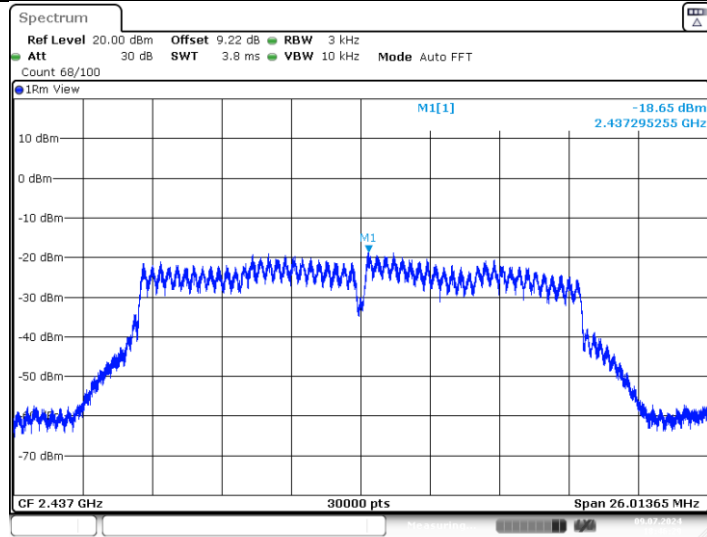


Date: 9.JUL.2024 18:40:49

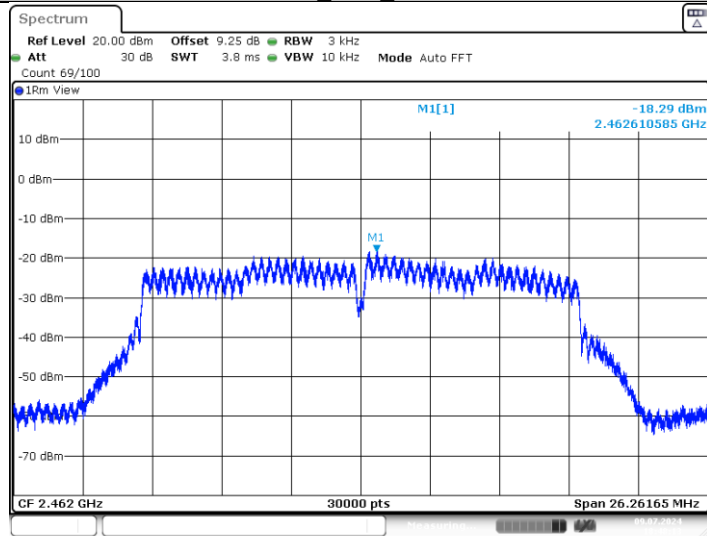
### 11G\_Ant1\_2412



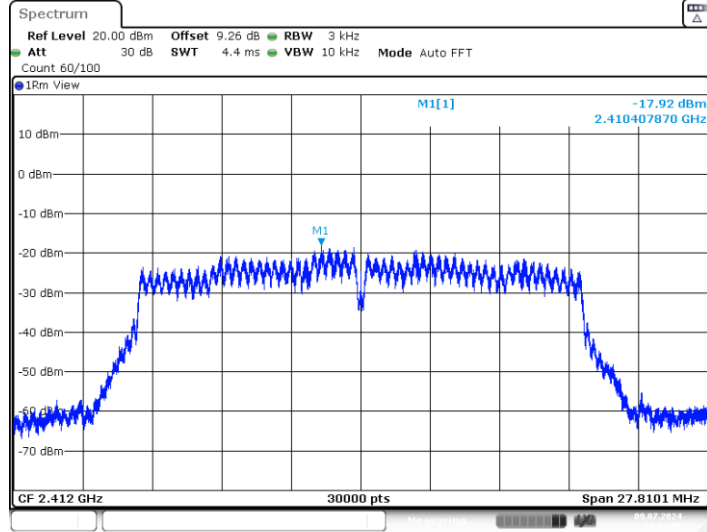
### 11G\_Ant1\_2437



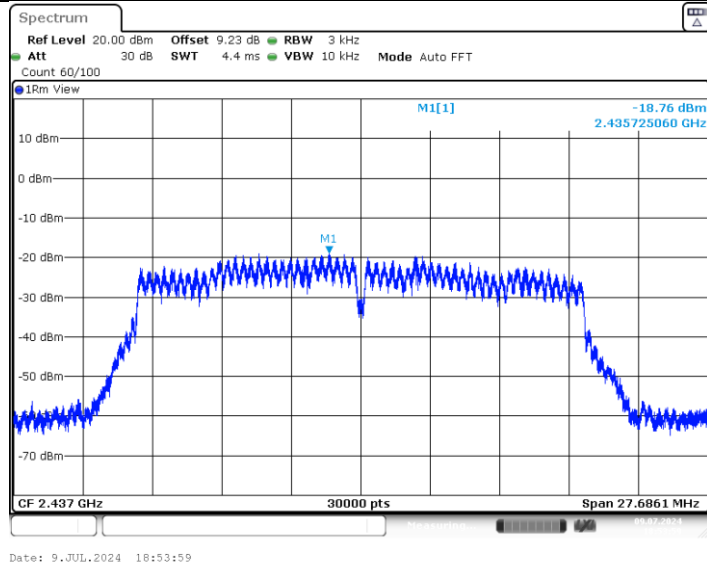
### 11G\_Ant1\_2462



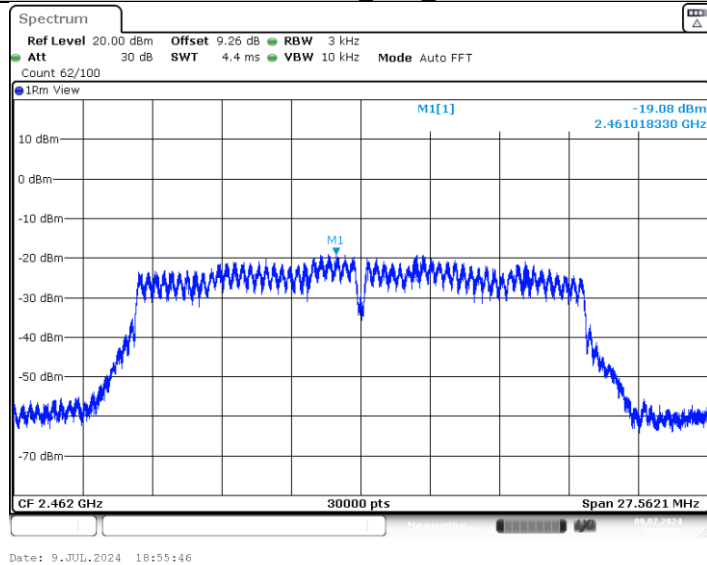
## 11N20SISO\_Ant1\_2412



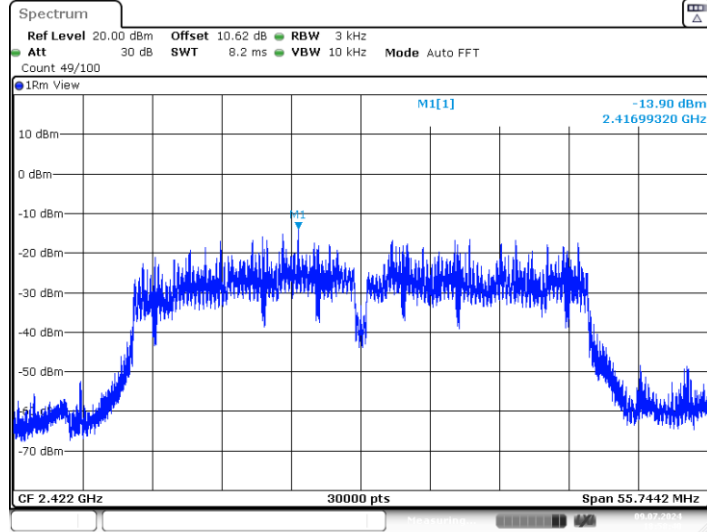
## 11N20SISO\_Ant1\_2437



## 11N20SISO\_Ant1\_2462

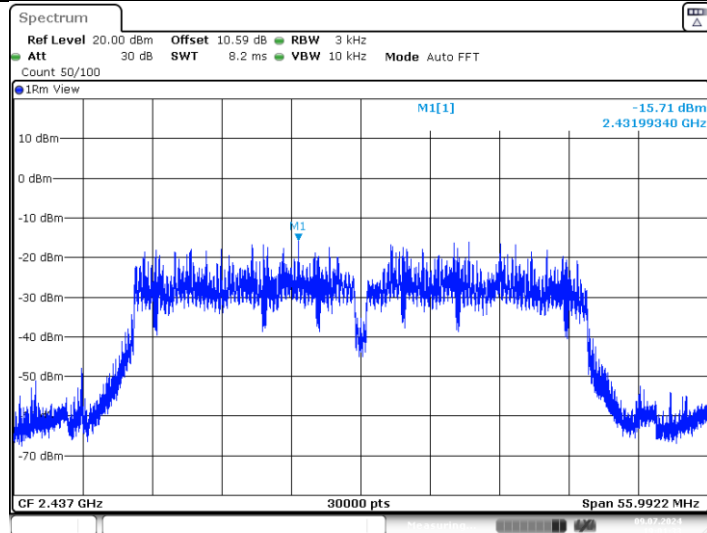


### 11N40SISO\_Ant1\_2422



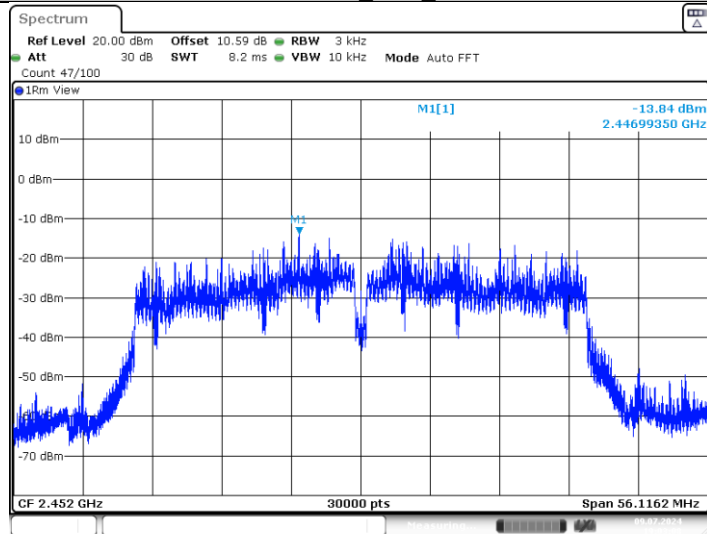
Date: 9.JUL.2024 18:58:39

### 11N40SISO\_Ant1\_2437



Date: 9.JUL.2024 19:01:33

### 11N40SISO\_Ant1\_2452



Date: 9.JUL.2024 19:03:08

End of Test Report