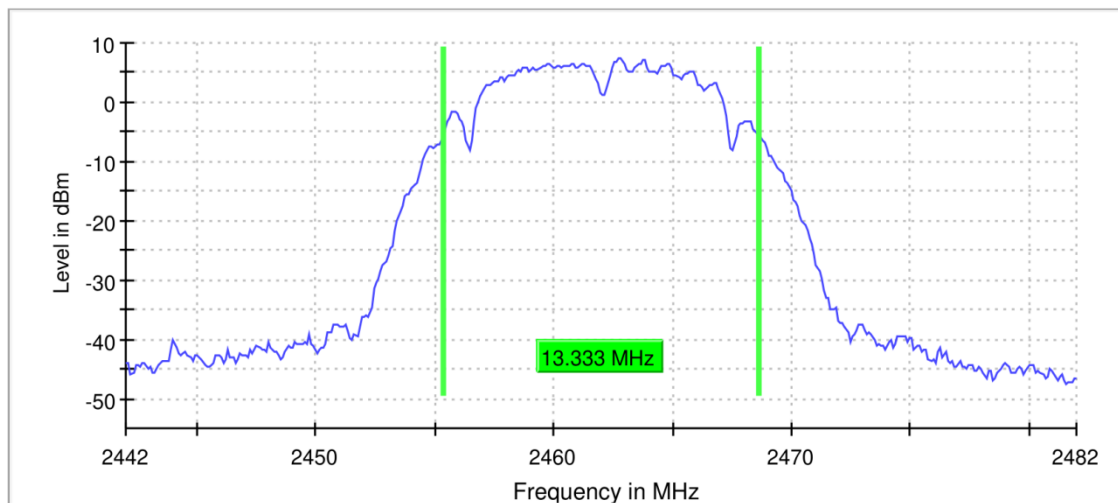


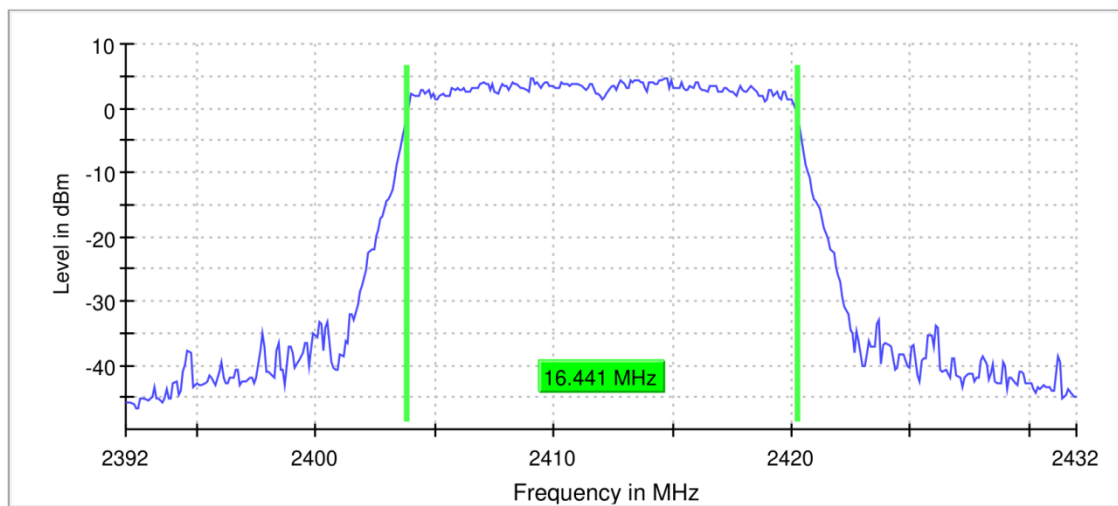


99 % Bandwidth



11G\_ANT1\_2412

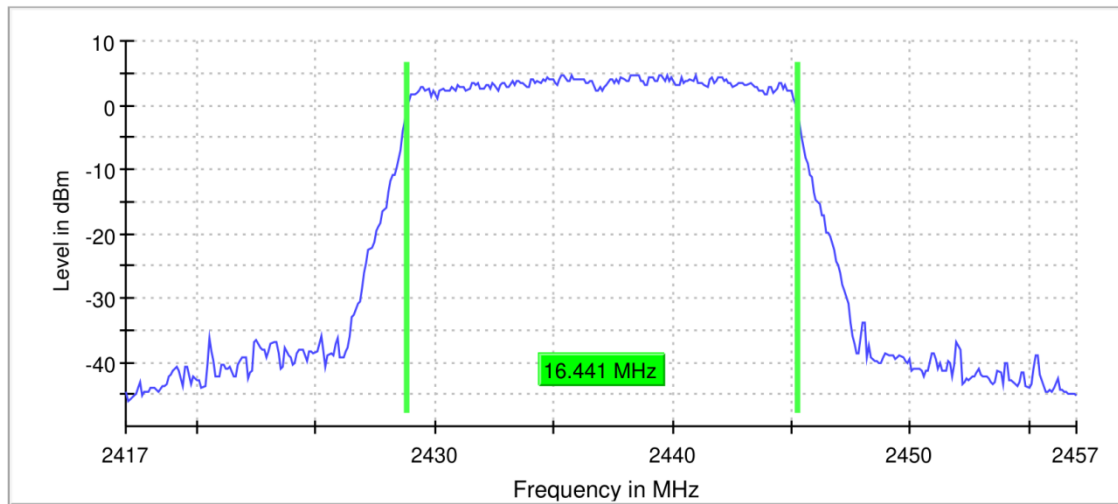
99 % Bandwidth



11G\_ANT1\_2437

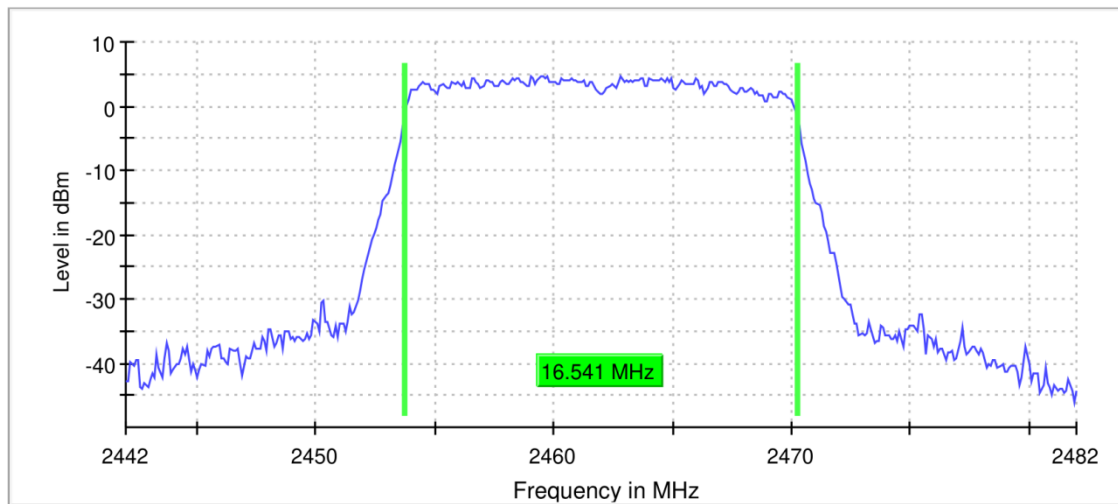


99 % Bandwidth



11G\_ANT1\_2462

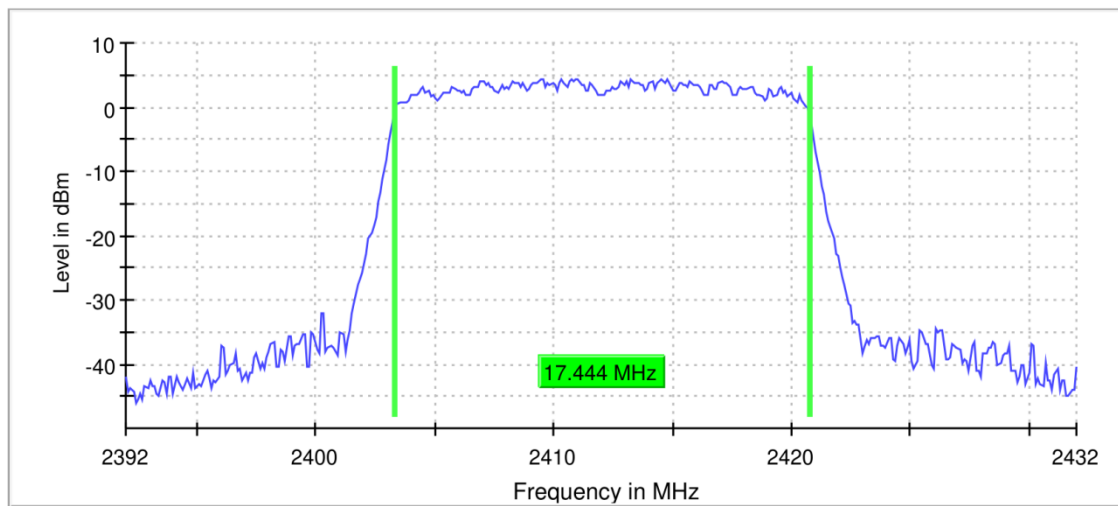
99 % Bandwidth



11N20\_ANT1\_2412

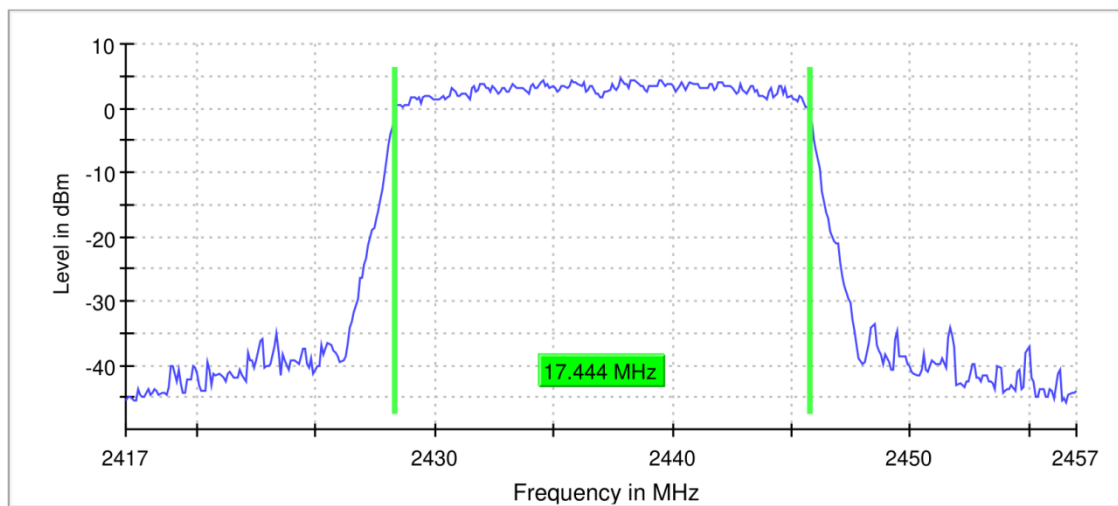


99 % Bandwidth

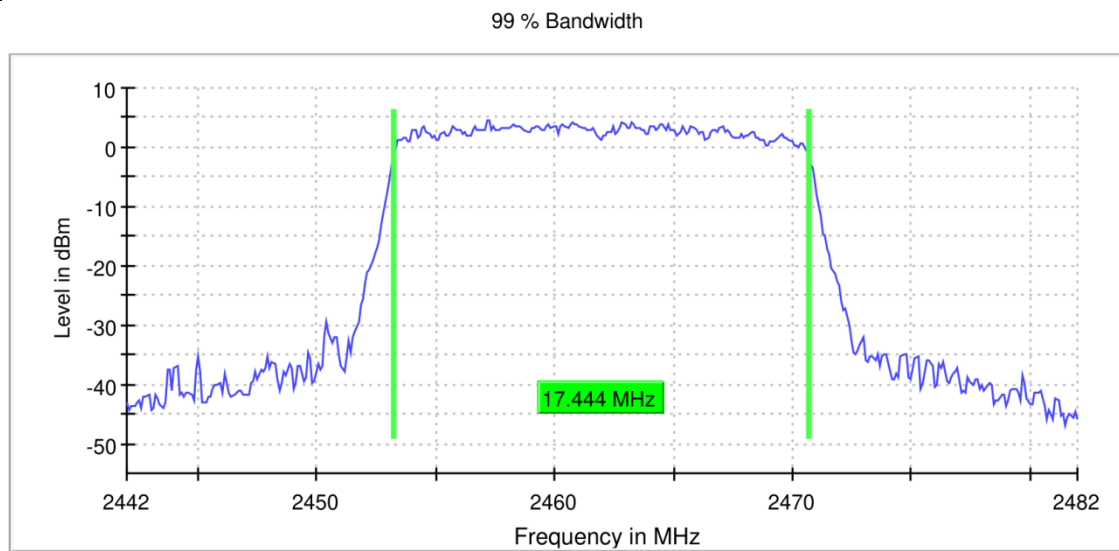


11N20\_ANT1\_2437

99 % Bandwidth



11N20\_ANT1\_2462



20M

RBW 200.000 kHz

VBW 1.000 MHz

**MAXIMUM CONDUCTED OUTPUT POWER****TEST RESULT**

| TestMode | TX Mod. | Frequency [MHz] | Peak power [dBm] | MAX Peak power [mw] | Limit [dBm] | Verdict | Power Setting |
|----------|---------|-----------------|------------------|---------------------|-------------|---------|---------------|
|          |         |                 | Ant1             |                     |             |         |               |
| 11B      | SISO    | 2412            | 19.37            | 86.50               | ≤30.00      | PASS    | 6             |
|          |         | 2437            | 19.36            | 86.30               | ≤30.00      | PASS    | 6             |
|          |         | 2462            | 19.06            | 80.54               | ≤30.00      | PASS    | 6             |
| 11g      | SISO    | 2412            | 26.61            | 458.14              | ≤30.00      | PASS    | 6             |
|          |         | 2437            | 26.41            | 437.52              | ≤30.00      | PASS    | 6             |
|          |         | 2462            | 25.77            | 377.57              | ≤30.00      | PASS    | 6             |
| 11N20    | SISO    | 2412            | 26.05            | 402.72              | ≤30.00      | PASS    | 6             |
|          |         | 2437            | 26.62            | 459.20              | ≤30.00      | PASS    | 6             |
|          |         | 2462            | 26.14            | 411.15              | ≤30.00      | PASS    | 6             |

| TestMode | TX Mod. | Freq. [MHz] | Avg.power [dBm] | Power Setting |
|----------|---------|-------------|-----------------|---------------|
|          |         |             | Ant1            |               |
| 11B      | SISO    | 2412        | 16.16           | 6             |
|          |         | 2437        | 16.20           | 6             |
|          |         | 2462        | 15.84           | 6             |
| 11g      | SISO    | 2412        | 15.40           | 6             |
|          |         | 2437        | 15.32           | 6             |
|          |         | 2462        | 15.14           | 6             |
| 11N20    | SISO    | 2412        | 15.12           | 6             |
|          |         | 2437        | 15.15           | 6             |
|          |         | 2462        | 15.06           | 6             |



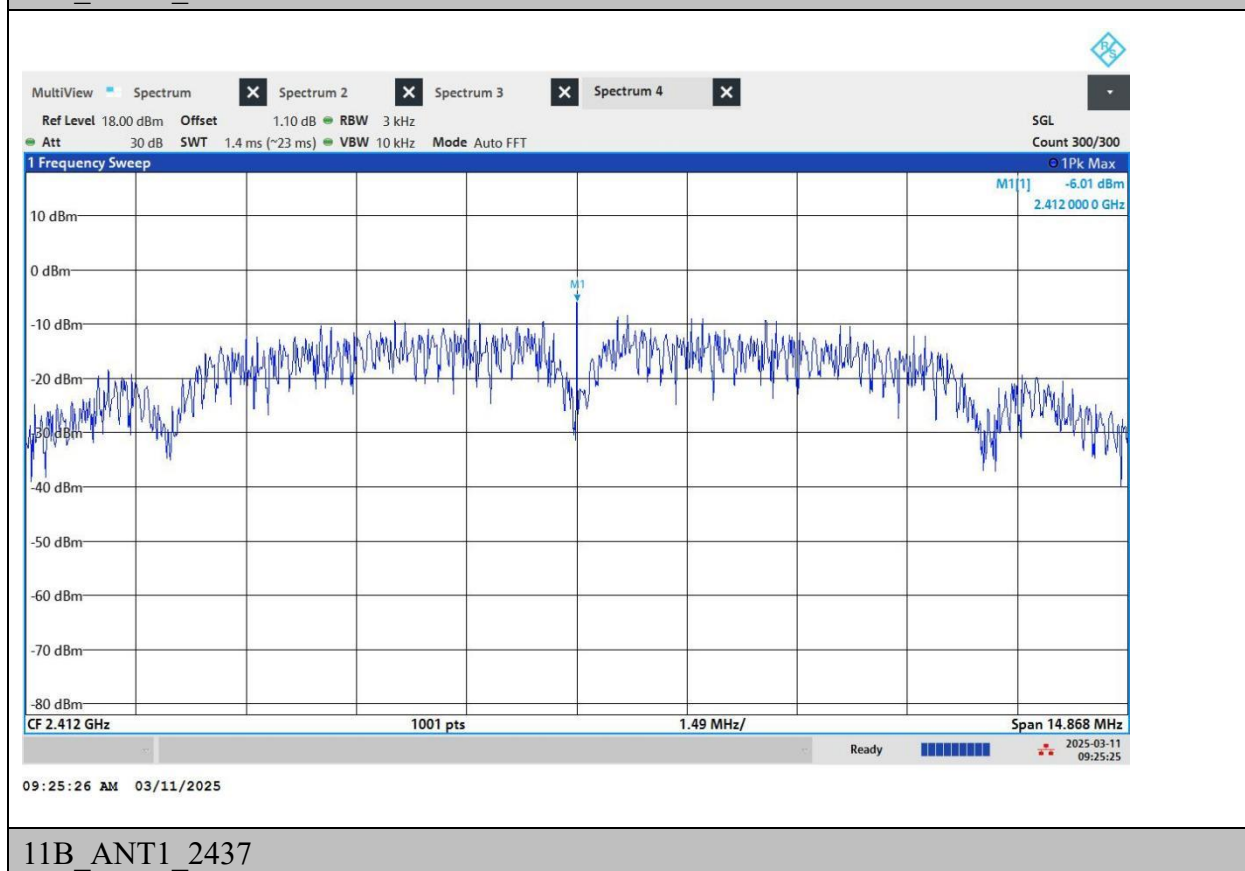
## MAXIMUM POWER SPECTRAL DENSITY

### TEST RESULT

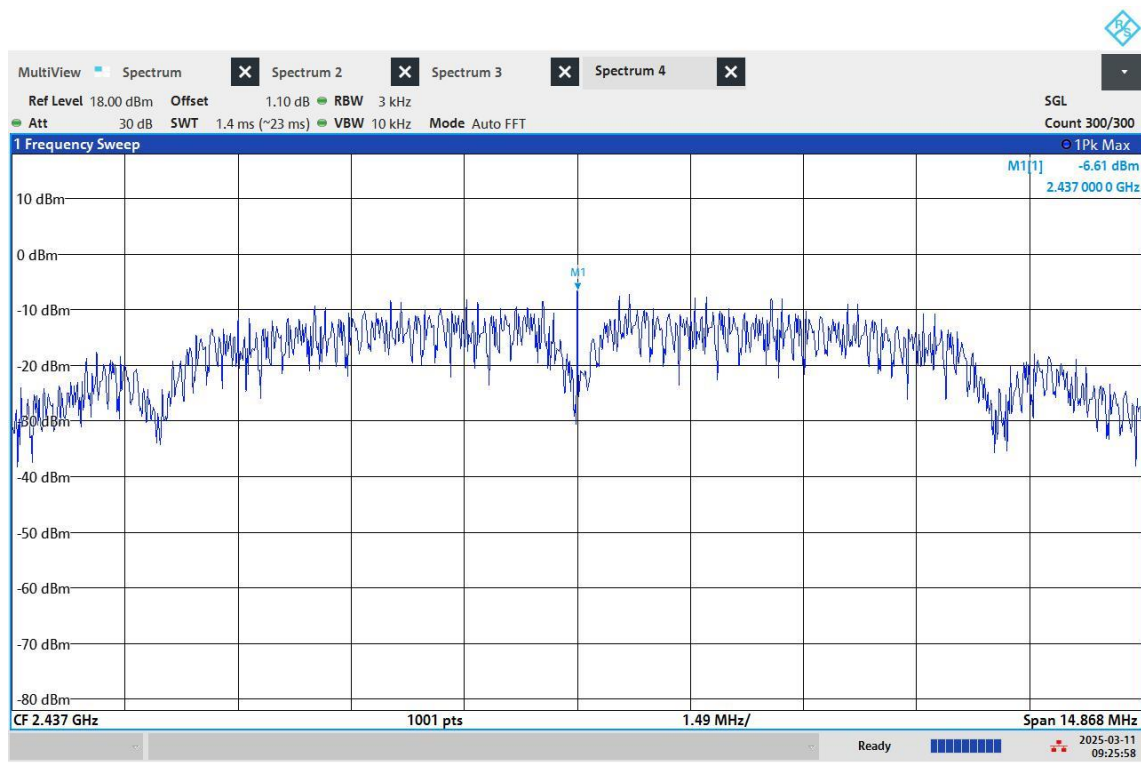
| TestMode | Antenna | Frequency<br>[MHz] | Result<br>[dBm/3kHz] | Limit<br>[dBm/3kHz] | Verdict |
|----------|---------|--------------------|----------------------|---------------------|---------|
| 11B      | ANT1    | 2412               | -6.01                | ≤8.00               | PASS    |
|          | ANT1    | 2437               | -6.61                | ≤8.00               | PASS    |
|          | ANT1    | 2462               | -7.11                | ≤8.00               | PASS    |
| 11G      | ANT1    | 2412               | -7.25                | ≤8.00               | PASS    |
|          | ANT1    | 2437               | -6.85                | ≤8.00               | PASS    |
|          | ANT1    | 2462               | -7.40                | ≤8.00               | PASS    |
| 11N20    | ANT1    | 2412               | -5.70                | ≤8.00               | PASS    |
|          | ANT1    | 2437               | -4.94                | ≤8.00               | PASS    |
|          | ANT1    | 2462               | -5.62                | ≤8.00               | PASS    |

### TEST GRAPHS

11B\_ANT1\_2412

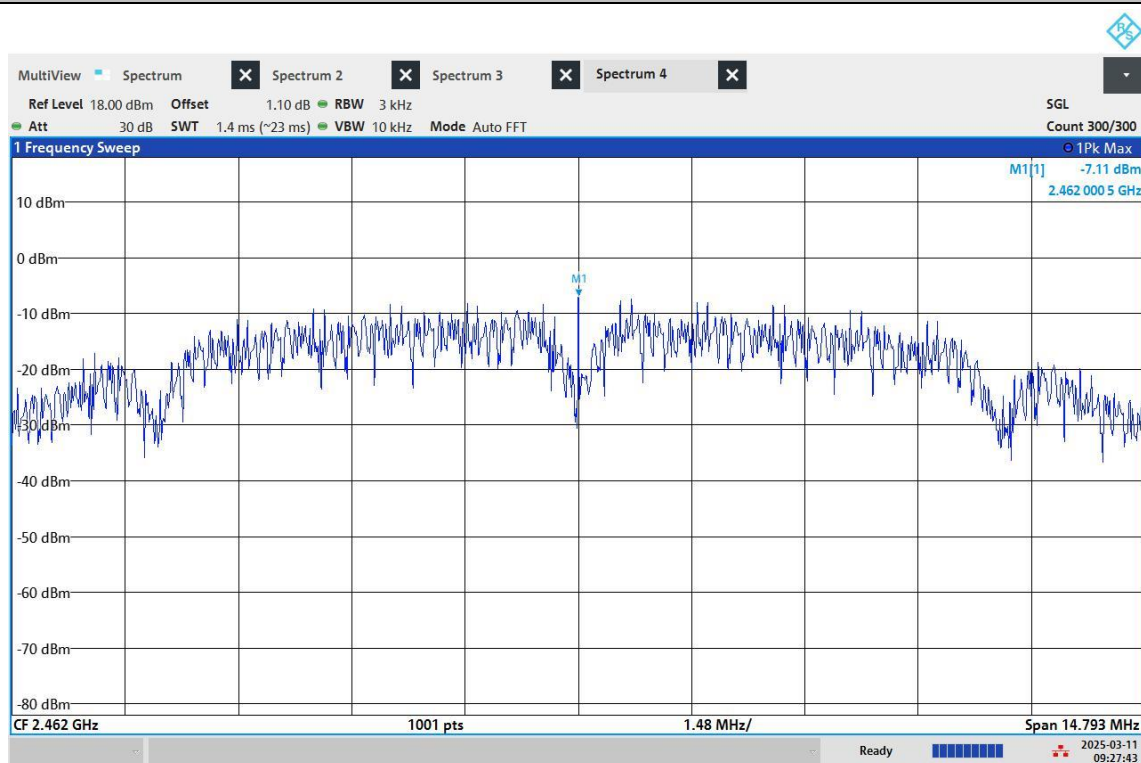


11B\_ANT1\_2437



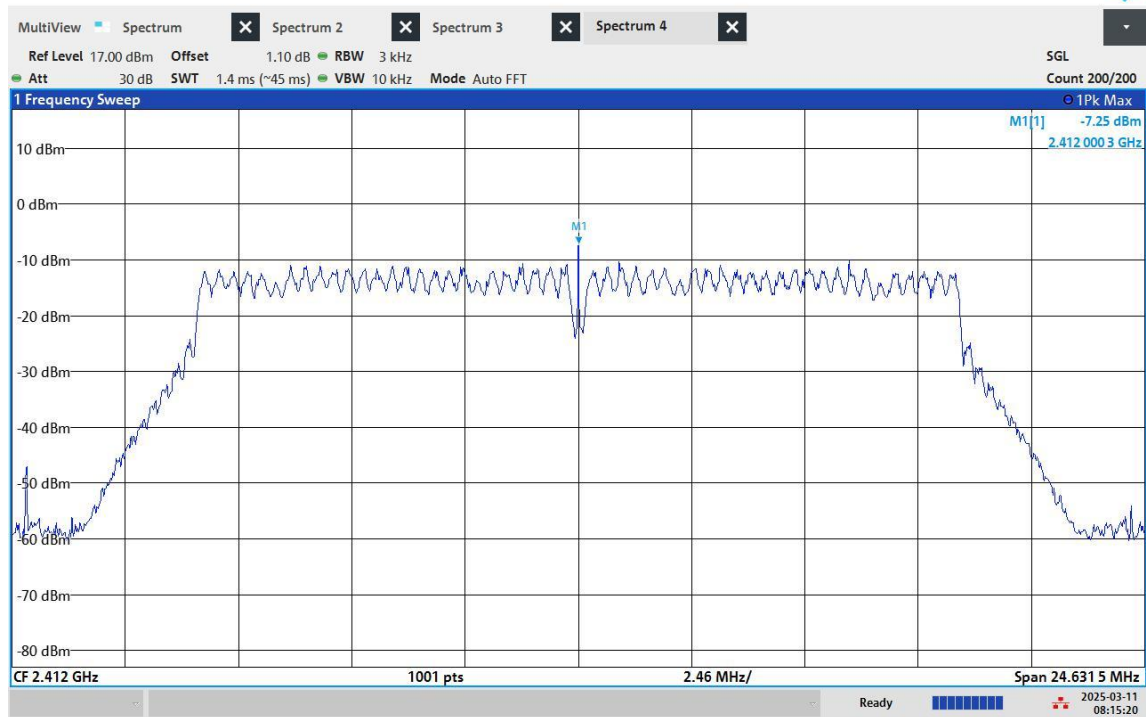
09:25:58 AM 03/11/2025

## 11B\_ANT1\_2462



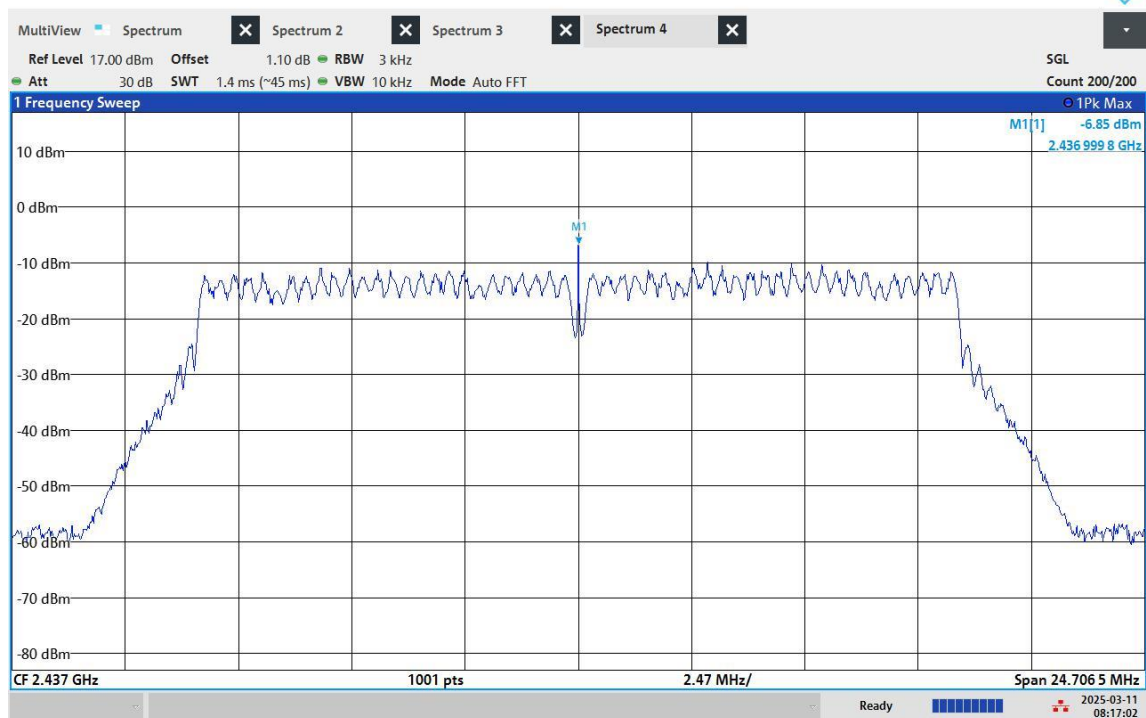
09:27:43 AM 03/11/2025

## 11G\_ANT1\_2412



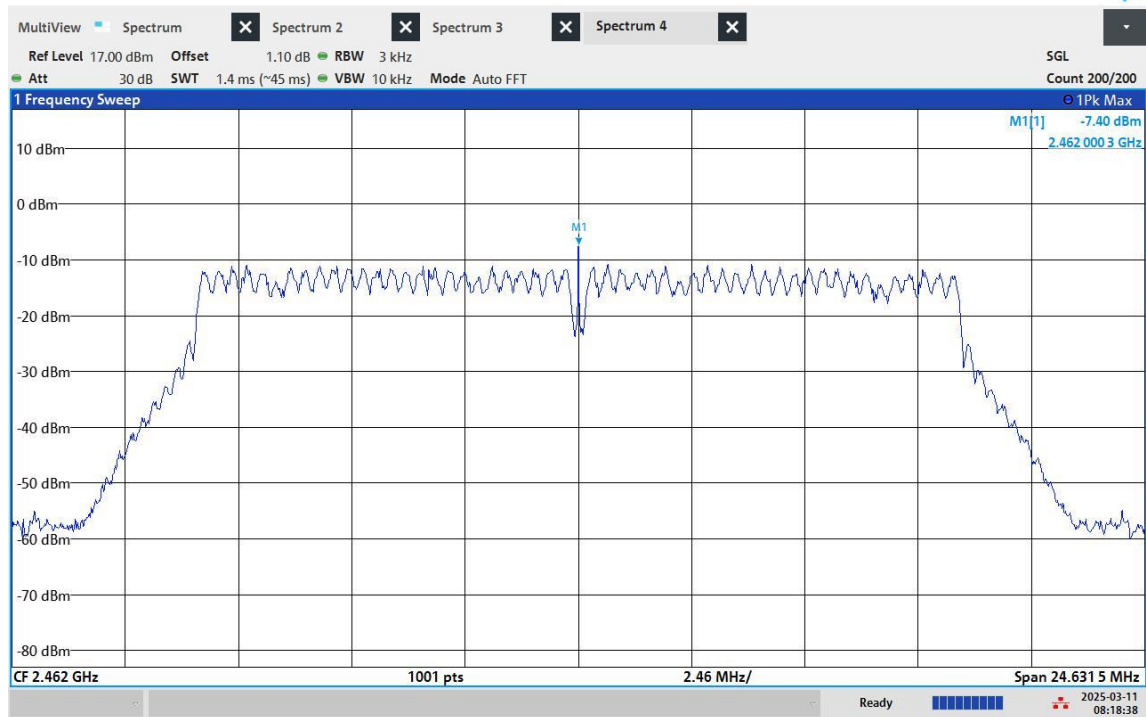
08:15:21 AM 03/11/2025

## 11G\_ANT1\_2437



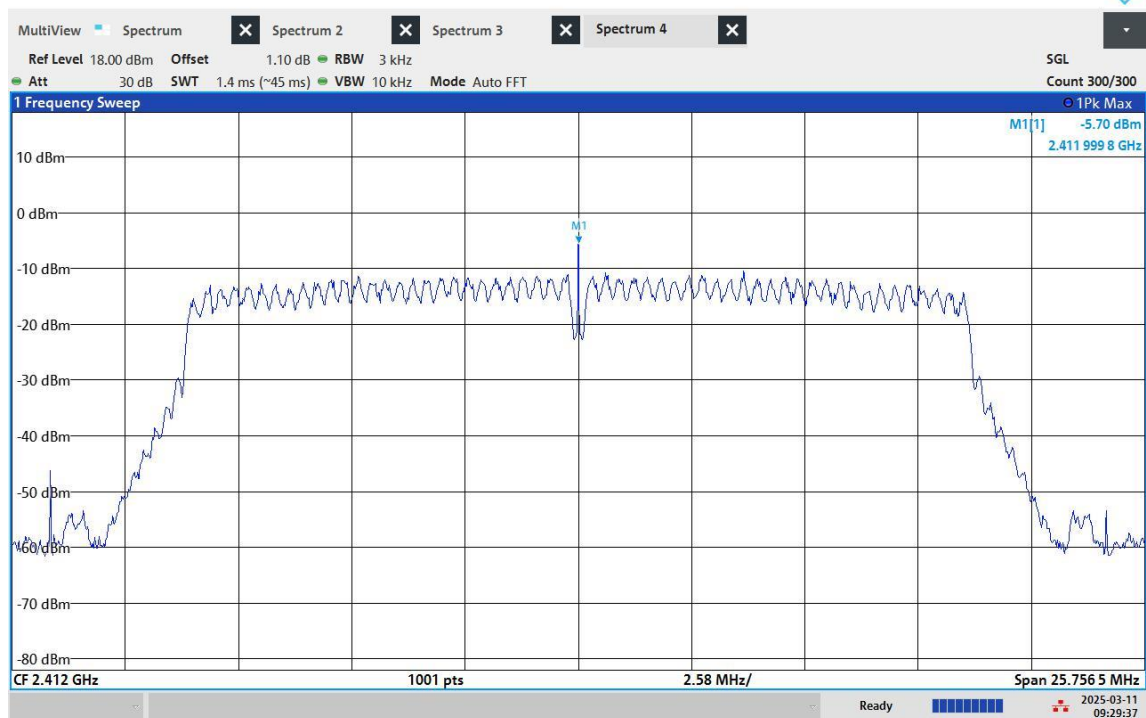
08:17:03 AM 03/11/2025

## 11G\_ANT1\_2462



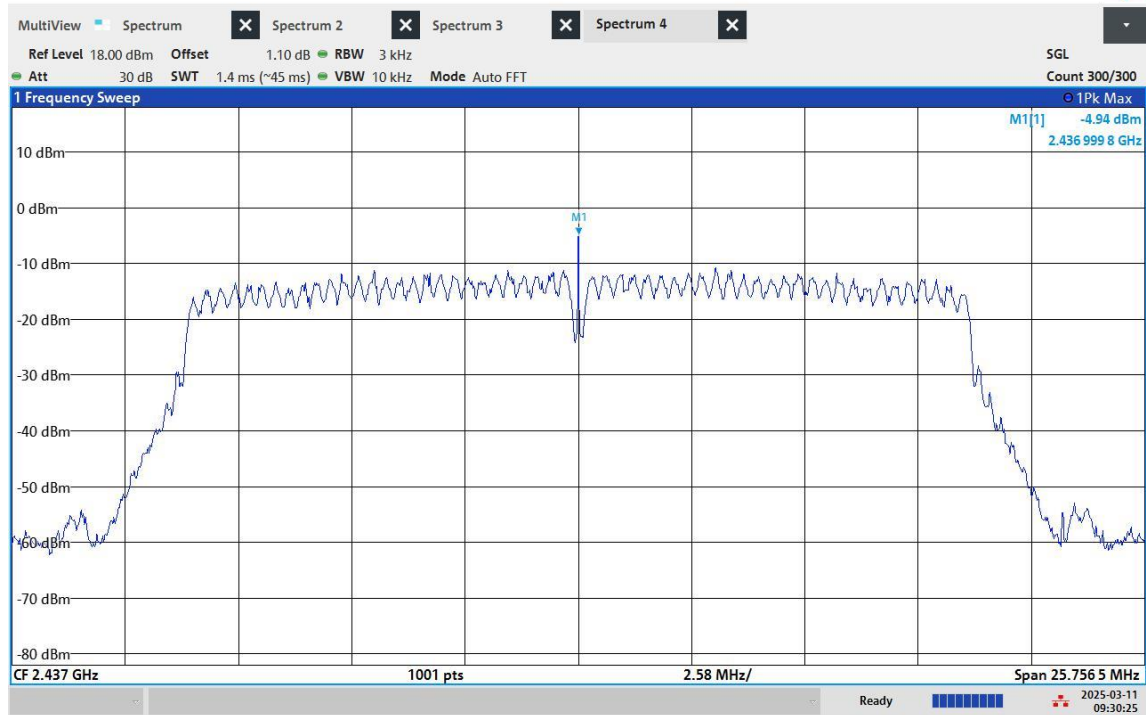
08:18:39 AM 03/11/2025

11N20\_ANT1\_2412



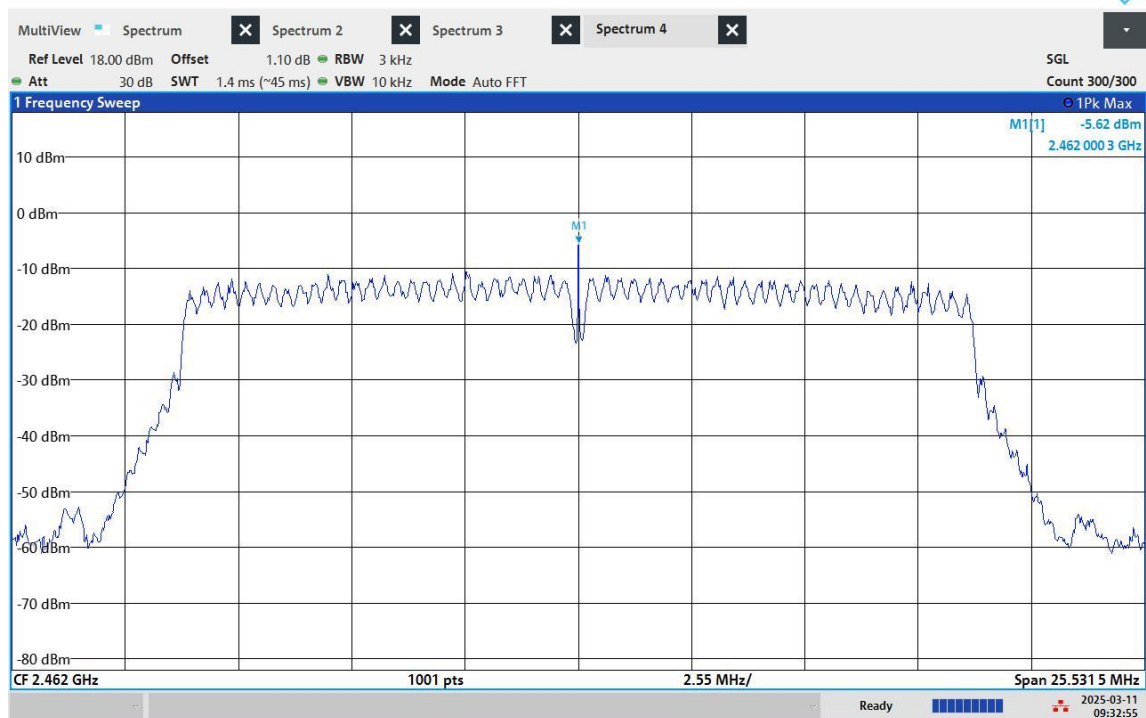
09:29:38 AM 03/11/2025

11N20\_ANT1\_2437



09:30:26 AM 03/11/2025

11N20\_ANT1\_2462



09:32:55 AM 03/11/2025

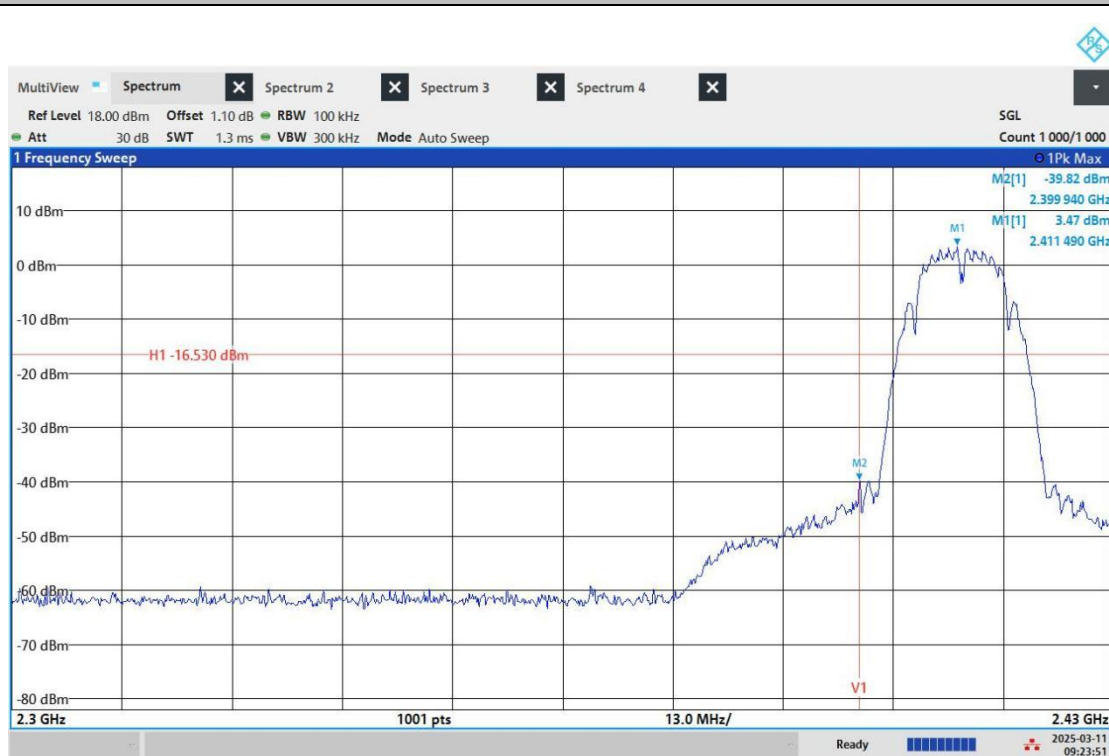
**BAND EDGE MEASUREMENTS****TEST RESULT**

| TestMode | Antenna | ChName | Frequency<br>[MHz] | Result<br>[dBm]   | Limit<br>[dBm]    | Verdict |
|----------|---------|--------|--------------------|-------------------|-------------------|---------|
| 11B      | ANT1    | Low    | 2412               | See test<br>graph | See test<br>graph | PASS    |
|          | ANT1    | High   | 2462               | See test<br>graph | See test<br>graph | PASS    |
| 11G      | ANT1    | Low    | 2412               | See test<br>graph | See test<br>graph | PASS    |
|          | ANT1    | High   | 2462               | See test<br>graph | See test<br>graph | PASS    |
| 11N20    | ANT1    | Low    | 2412               | See test<br>graph | See test<br>graph | PASS    |
|          | ANT1    | High   | 2462               | See test<br>graph | See test<br>graph | PASS    |



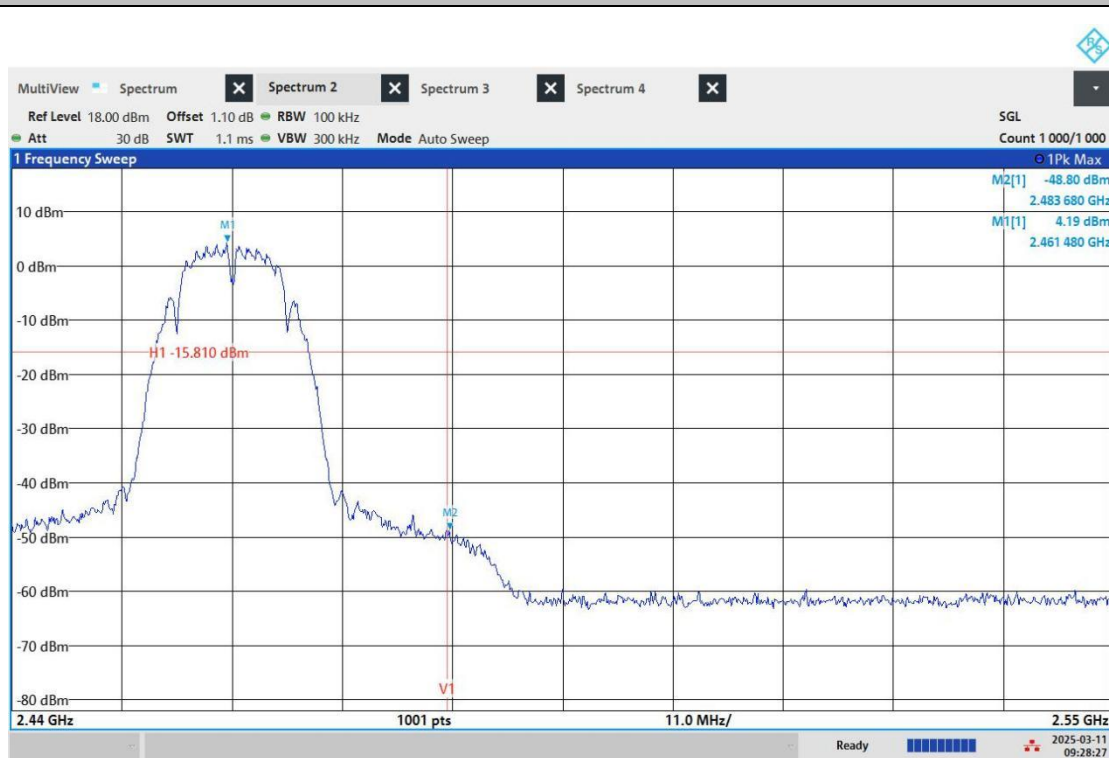
## TEST GRAPHS

11B\_ANT1\_Low\_2412



09:23:51 AM 03/11/2025

11B\_ANT1\_High\_2462



09:28:27 AM 03/11/2025

11G\_ANT1\_Low\_2412

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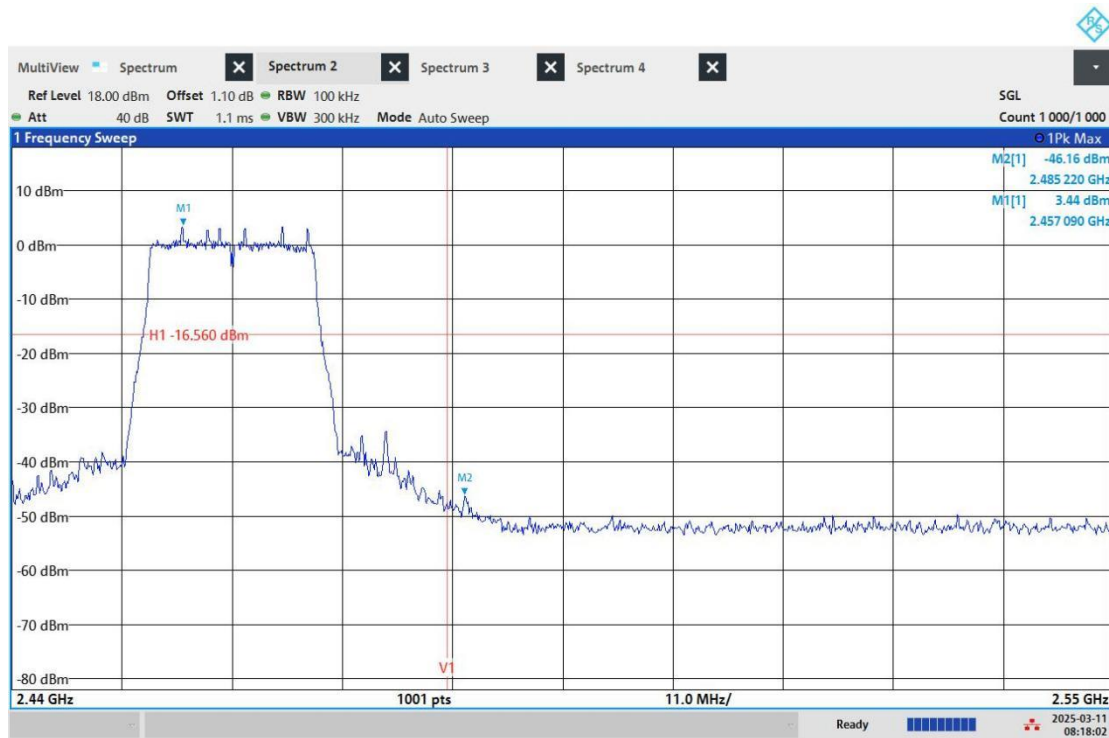
Tower N, Innovation Center, 88 Zuyi Road, High-teCH District,  
Suzhou City, Anhui Province

Tel: +86 (0557)  
368 1008



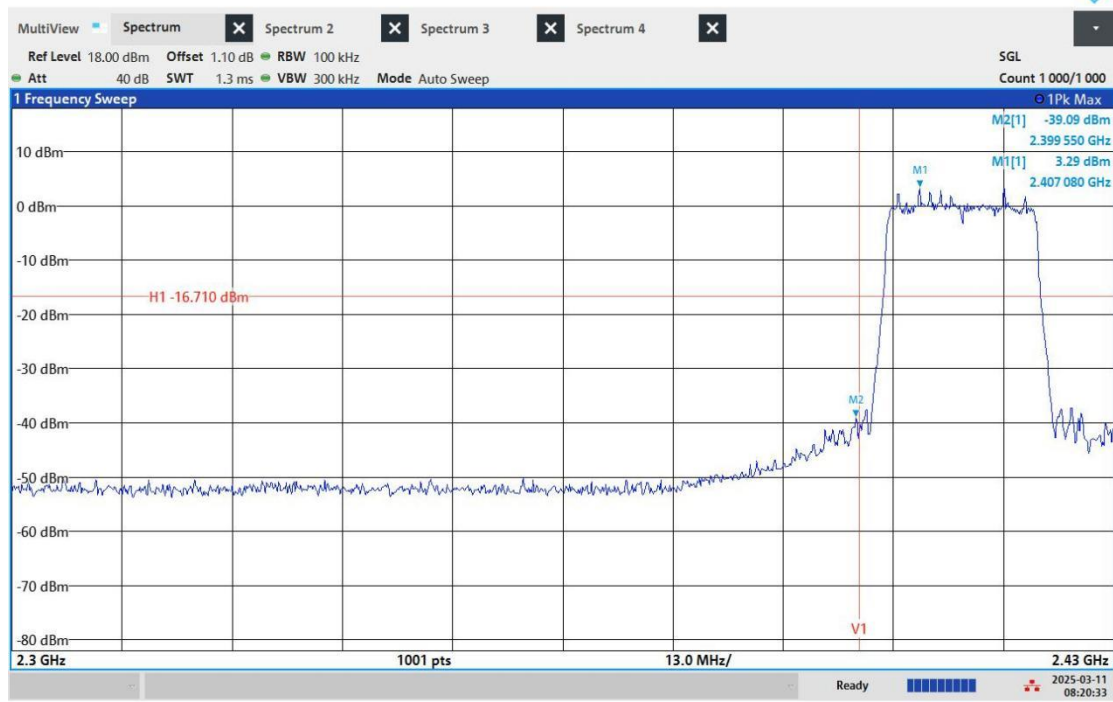
08:14:15 AM 03/11/2025

### 11G\_ANT1\_High\_2462



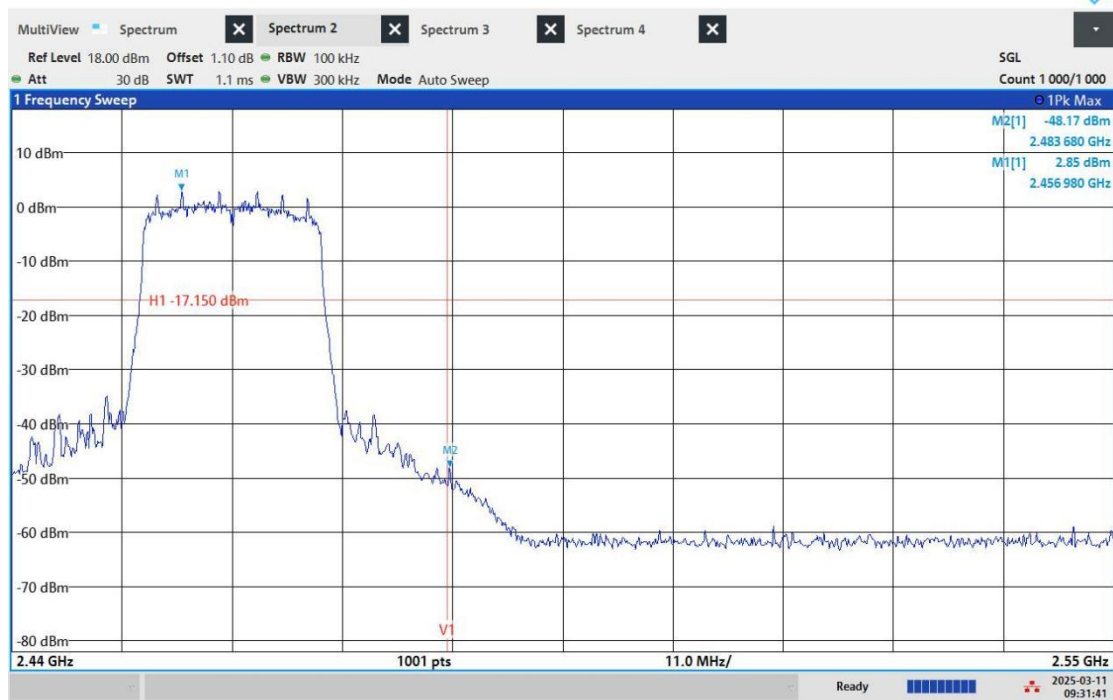
08:18:03 AM 03/11/2025

### 11N20\_ANT1\_Low\_2412



08:20:34 AM 03/11/2025

## 11N20\_ANT1\_High\_2462



09:31:42 AM 03/11/2025

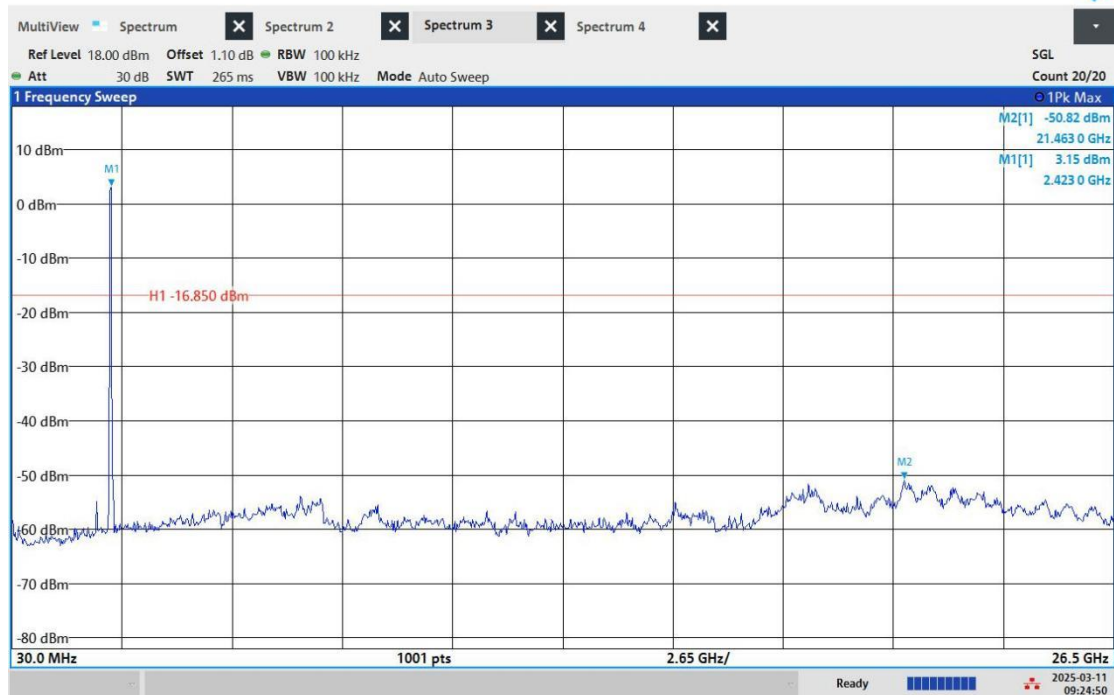
**CONDUCTED SPURIOUS EMISSION****TEST RESULT**

| TestMode | Antenna | Frequency[MHz] | FreqRange [Mhz] | Result [dBm]   | Limit [dBm]    | Verdict |
|----------|---------|----------------|-----------------|----------------|----------------|---------|
| 11B      | ANT1    | 2412           | 30~26500<br>0   | See test graph | See test graph | PASS    |
|          | ANT1    | 2437           | 30~26500<br>0   | See test graph | See test graph | PASS    |
|          | ANT1    | 2462           | 30~26500<br>0   | See test graph | See test graph | PASS    |
| 11G      | ANT1    | 2412           | 30~26500<br>0   | See test graph | See test graph | PASS    |
|          | ANT1    | 2437           | 30~26500<br>0   | See test graph | See test graph | PASS    |
|          | ANT1    | 2462           | 30~26500<br>0   | See test graph | See test graph | PASS    |
| 11N20    | ANT1    | 2412           | 30~26500<br>0   | See test graph | See test graph | PASS    |
|          | ANT1    | 2437           | 30~26500<br>0   | See test graph | See test graph | PASS    |
|          | ANT1    | 2462           | 30~26500<br>0   | See test graph | See test graph | PASS    |

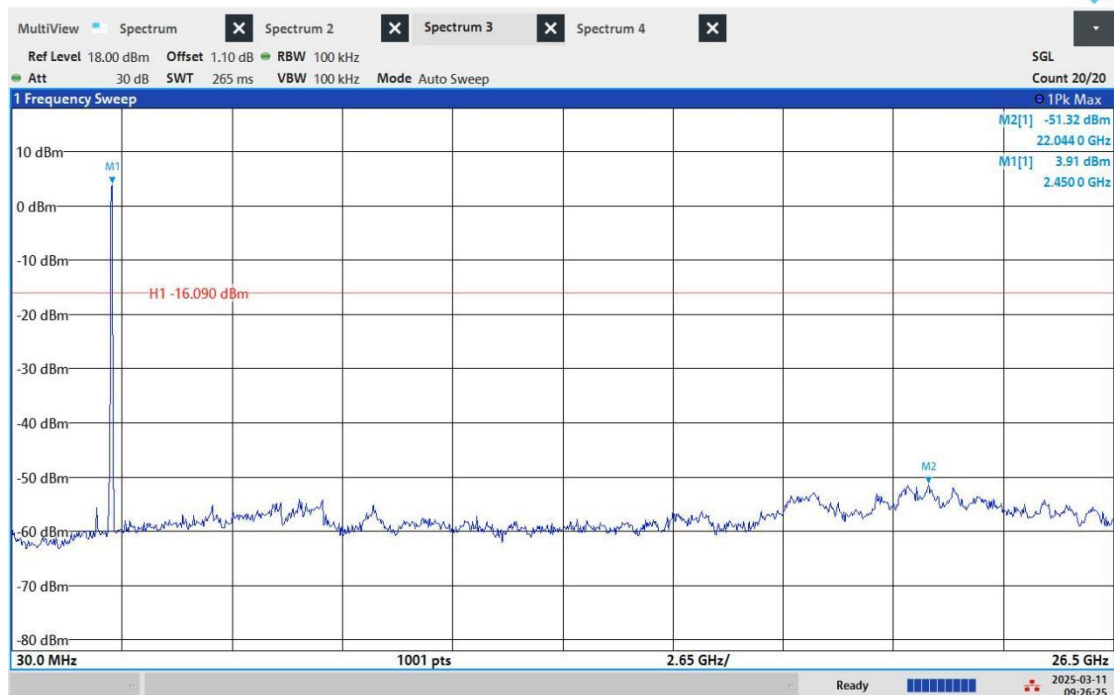


## TEST GRAPHS

11B\_ANT1\_2412\_30~265000



11B\_ANT1\_2437\_30~265000

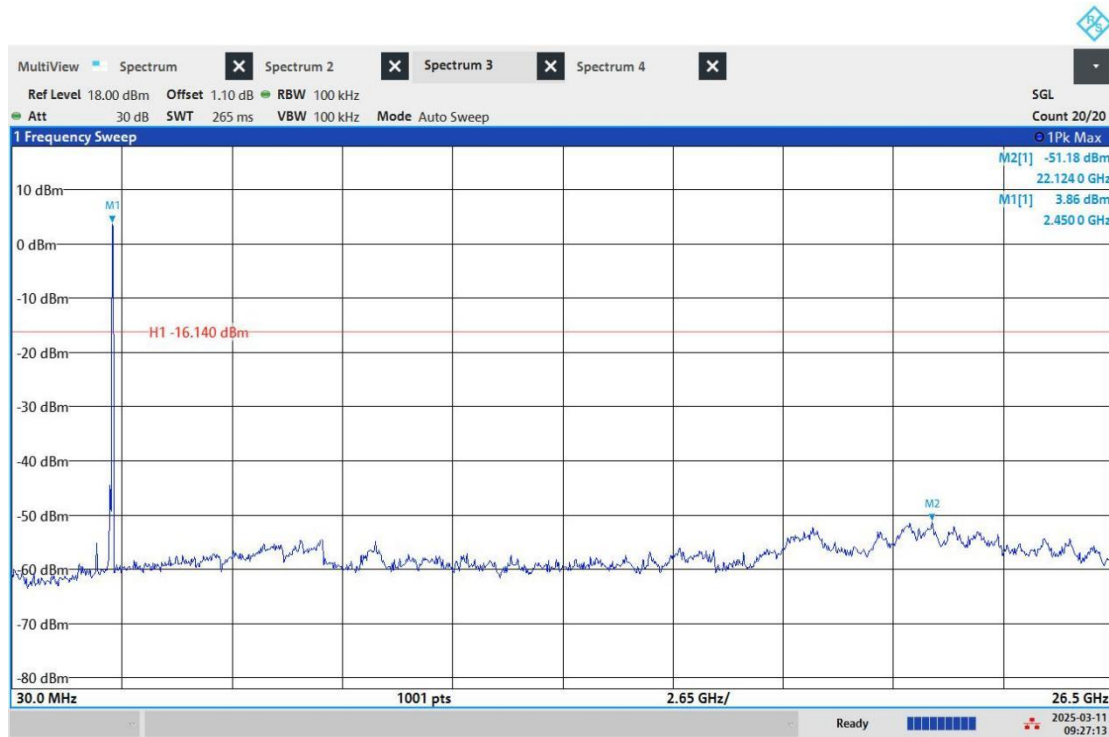


11B\_ANT1\_2462\_30~265000

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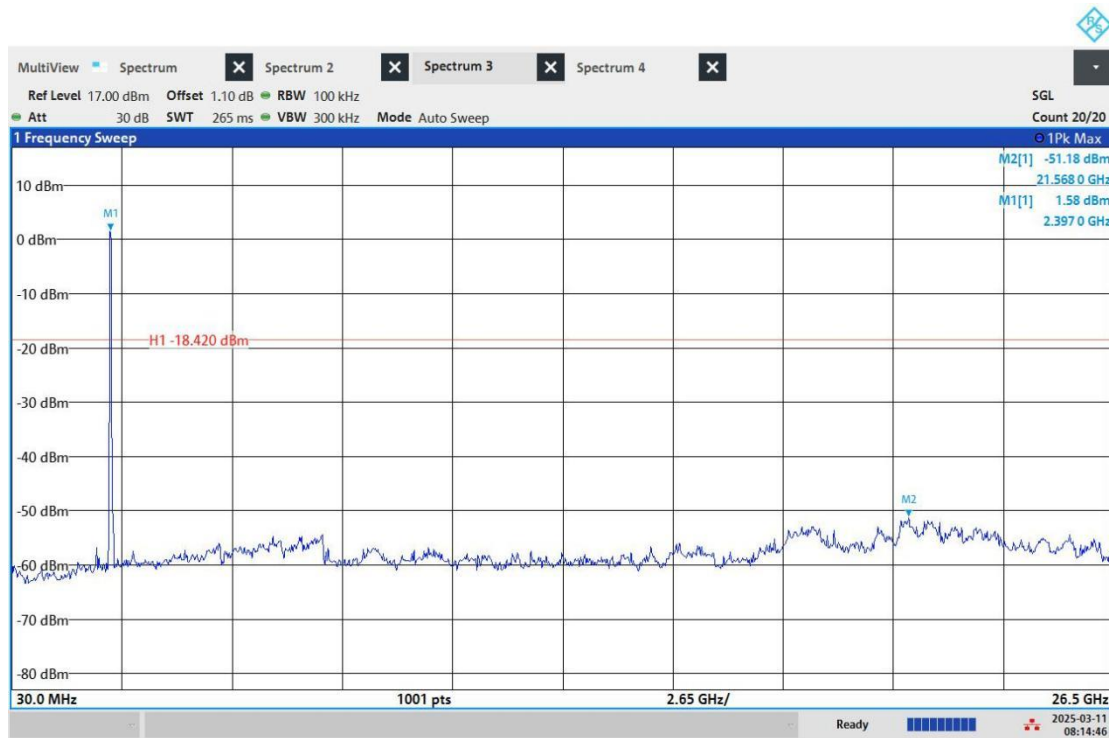
Tower N, Innovation Center, 88 Zuyi Road, High-teCH District,  
Suzhou City, Anhui Province

Tel: +86 (0557)  
368 1008



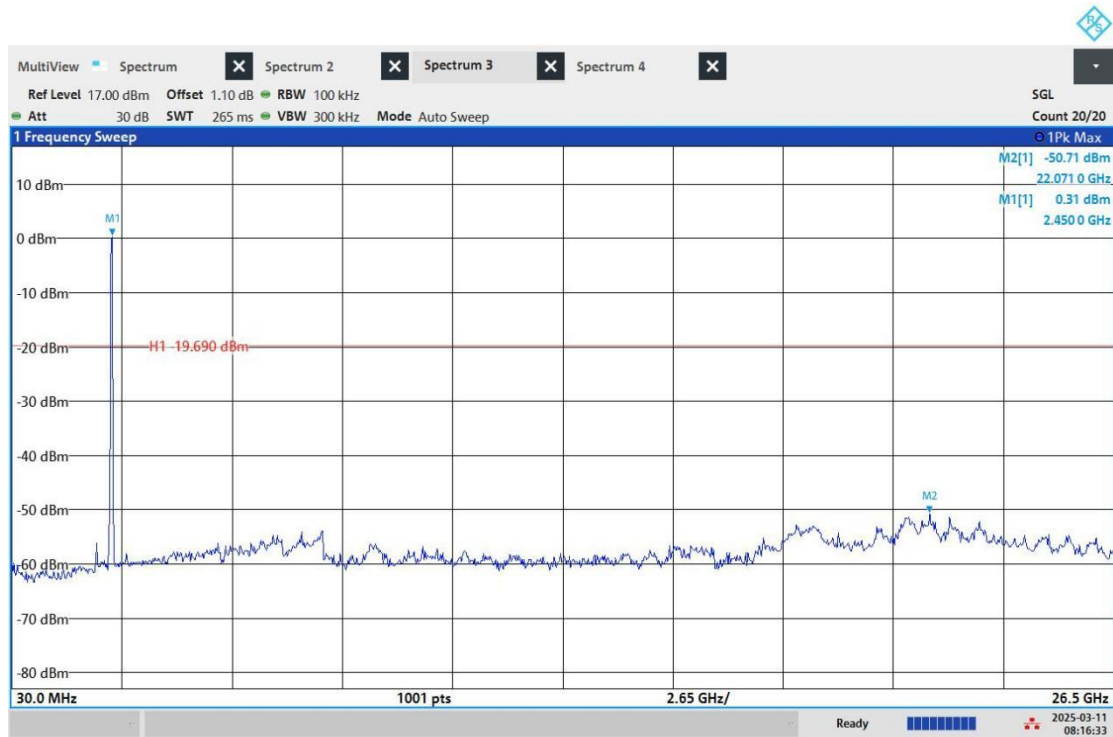
09:27:14 AM 03/11/2025

11G\_ANT1\_2412\_30~265000



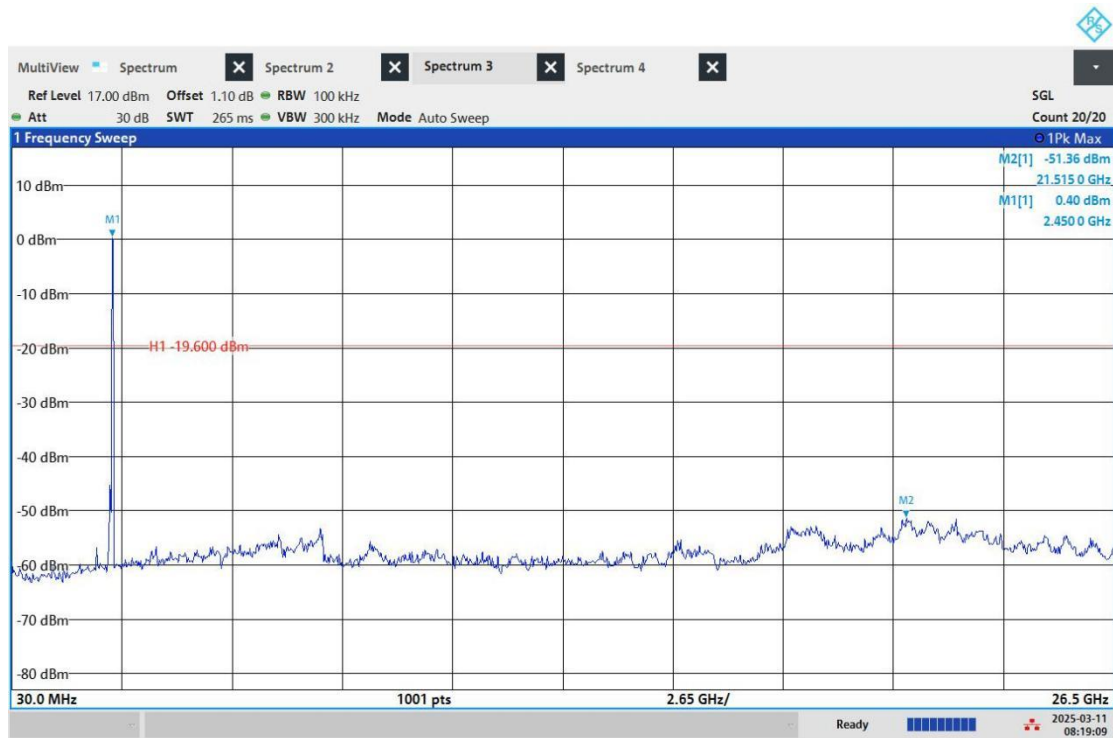
08:14:47 AM 03/11/2025

11G\_ANT1\_2437\_30~265000



08:16:34 AM 03/11/2025

### 11G\_ANT1\_2462\_30~265000



08:19:10 AM 03/11/2025

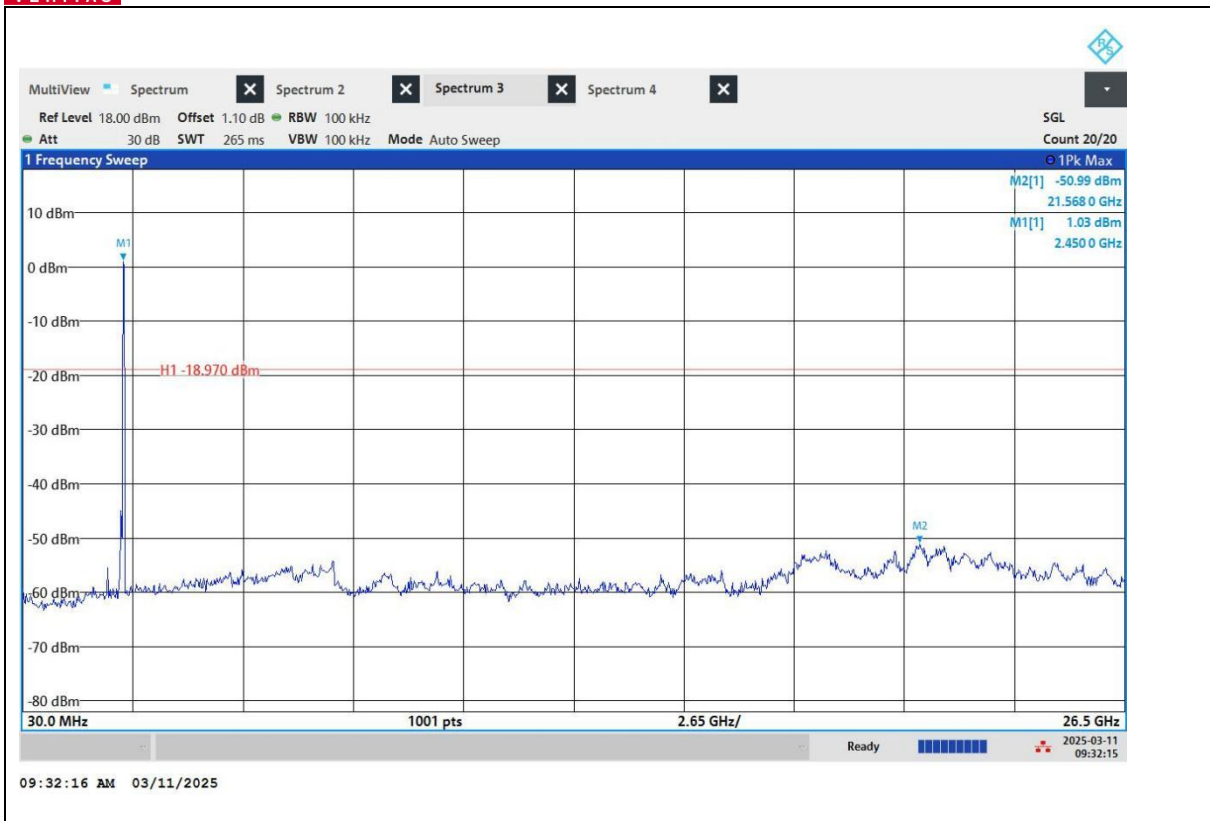
### 11N20\_ANT1\_2412\_30~265000



11N20\_ANT1\_2437\_30~265000



11N20\_ANT1\_2462\_30~265000





## DUTY CYCLE

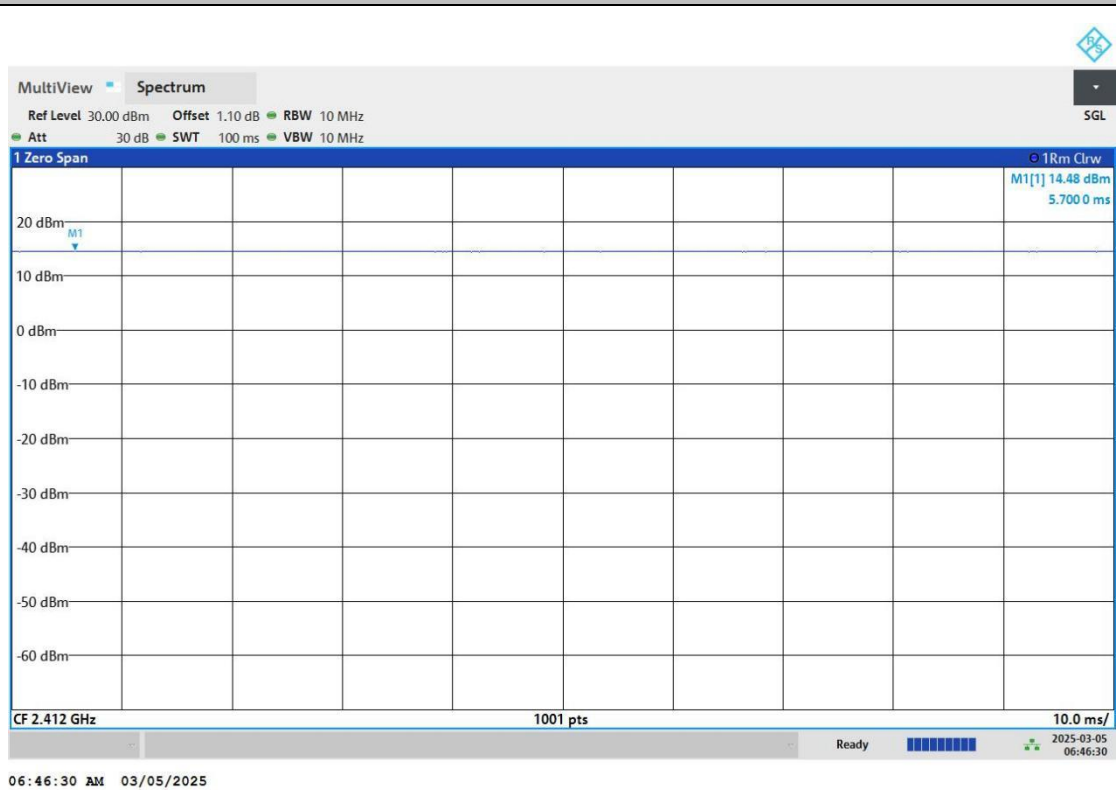
### TEST RESULT

| TestMode | Antenna | Frequency[MHz] | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | duty cycle factor |
|----------|---------|----------------|----------------------------|--------------------------|----------------|-------------------|
| 11B      | ANT1    | 2412           | 100                        | 100                      | 100            | 0                 |
| 11G      | ANT1    | 2412           | 100                        | 100                      | 100            | 0                 |
| 11N20    | ANT1    | 2412           | 100                        | 100                      | 100            | 0                 |

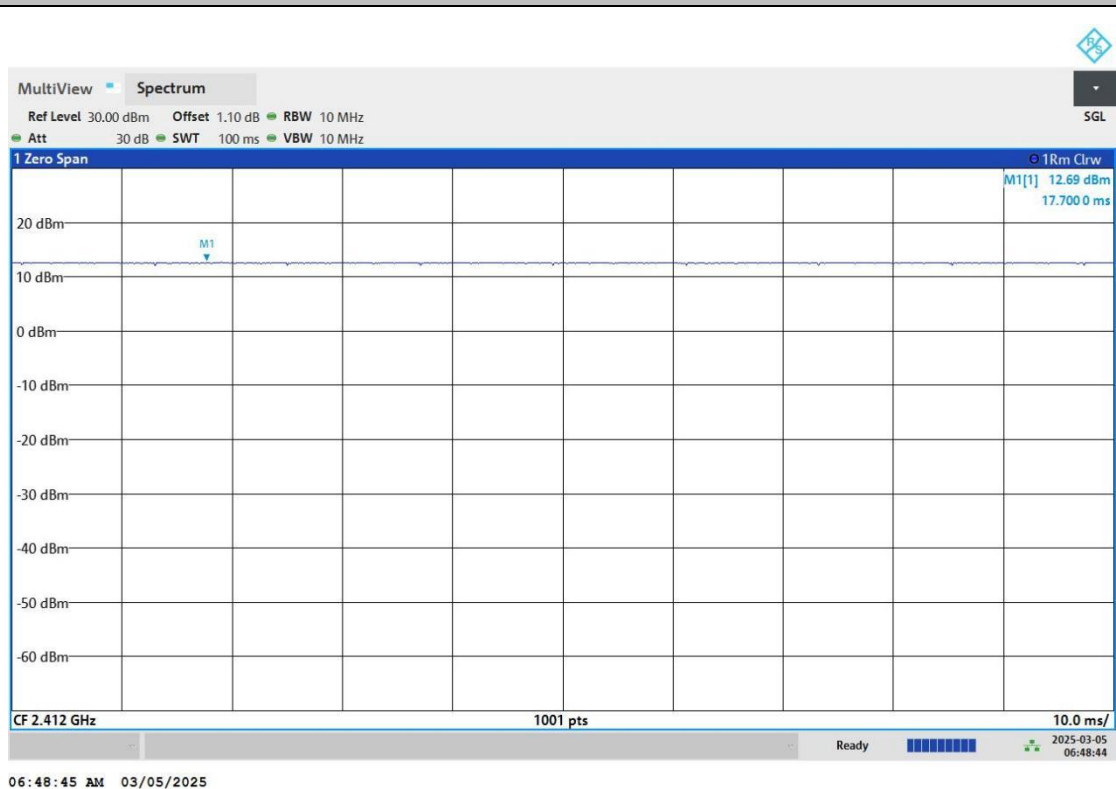


## TEST GRAPHS

11B\_ANT1\_2412



11G\_ANT1\_2412

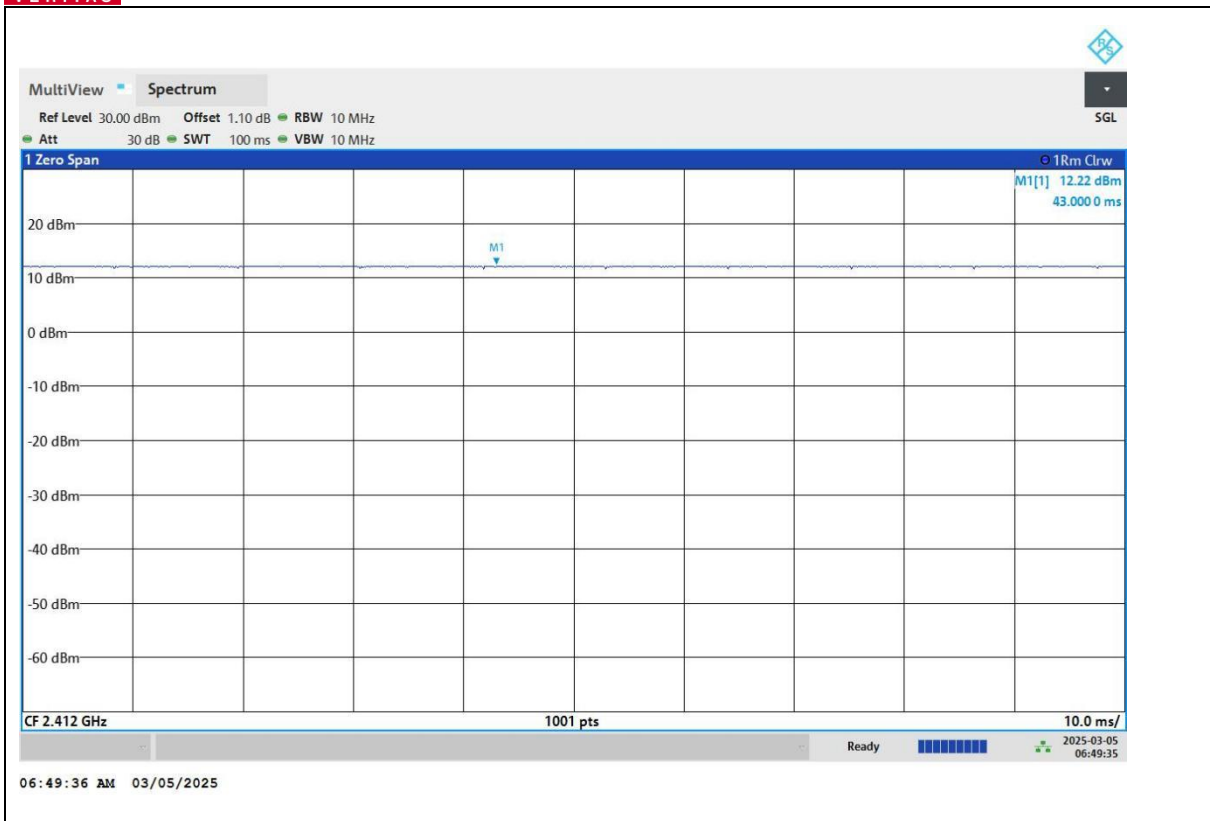


11N20\_ANT1\_2412

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368 1008





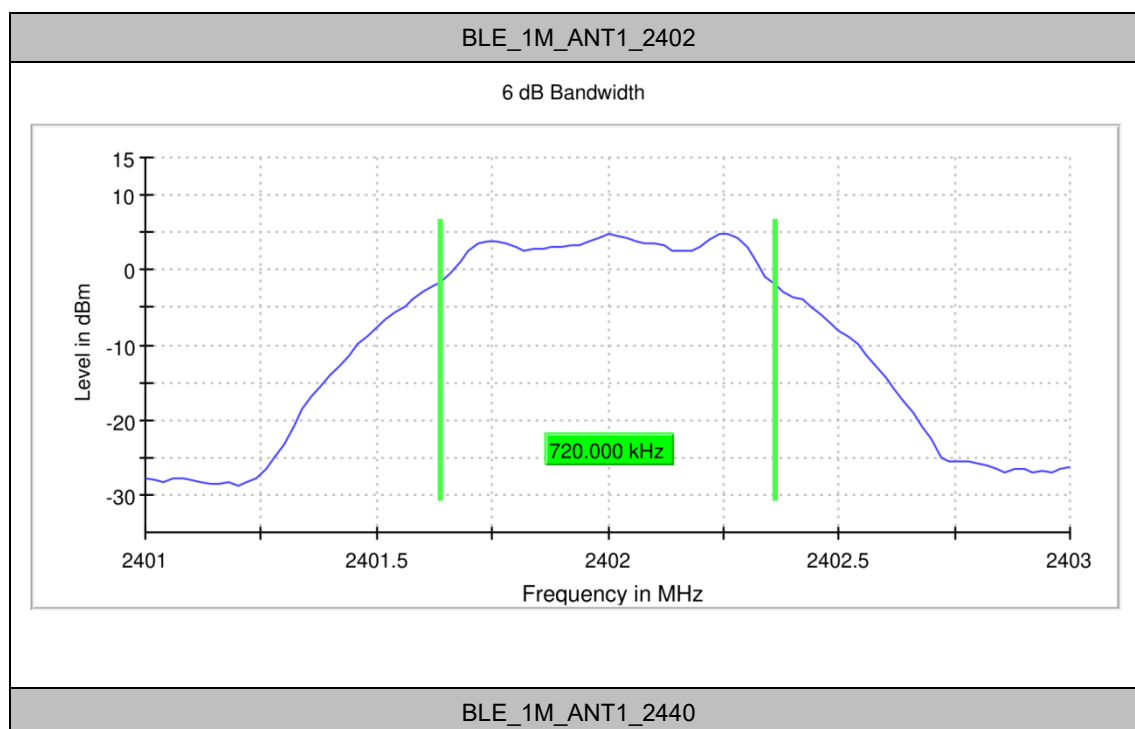
## 7 APPENDIX B:BLE

### DTS BANDWIDTH

#### TEST RESULT

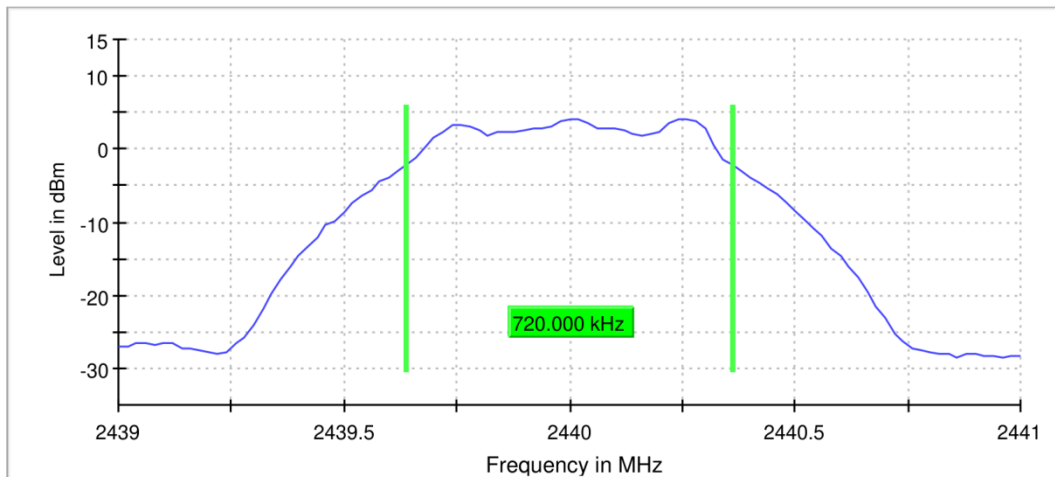
| TestMode | Antenna | Channel | DTS BW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|---------|-----------------|----------|----------|------------|---------|
| BLE_1M   | ANT1    | 2402    | 0.720           | 2401.640 | 2402.360 | 0.5        | PASS    |
|          |         | 2440    | 0.720           | 2439.640 | 2440.360 | 0.5        | PASS    |
|          |         | 2480    | 0.720           | 2479.640 | 2480.360 | 0.5        | PASS    |

#### TEST GRAPHS



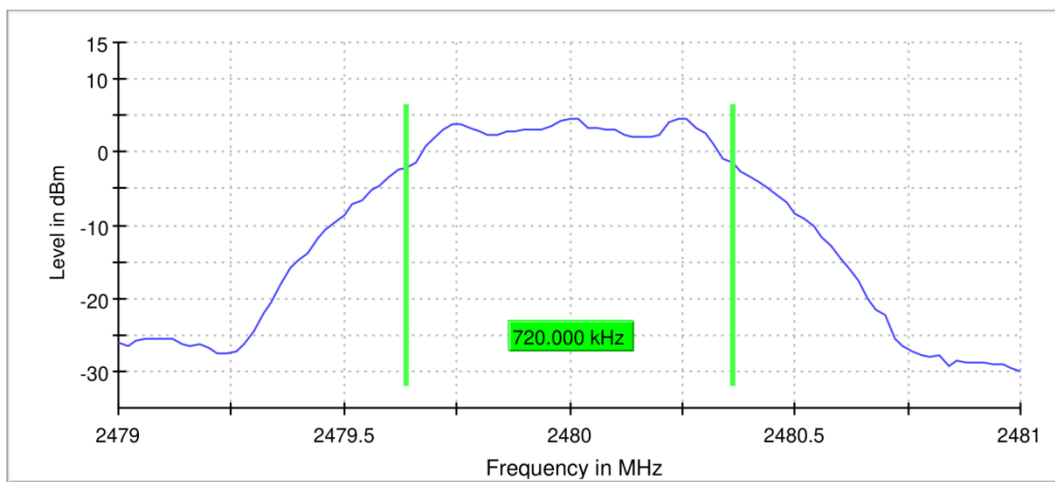


6 dB Bandwidth



BLE\_1M\_ANT1\_2480

6 dB Bandwidth



RBW 100.000 kHz

VBW 300.000 kHz



## OCCUPIED CHANNEL BANDWIDTH

### TEST RESULT

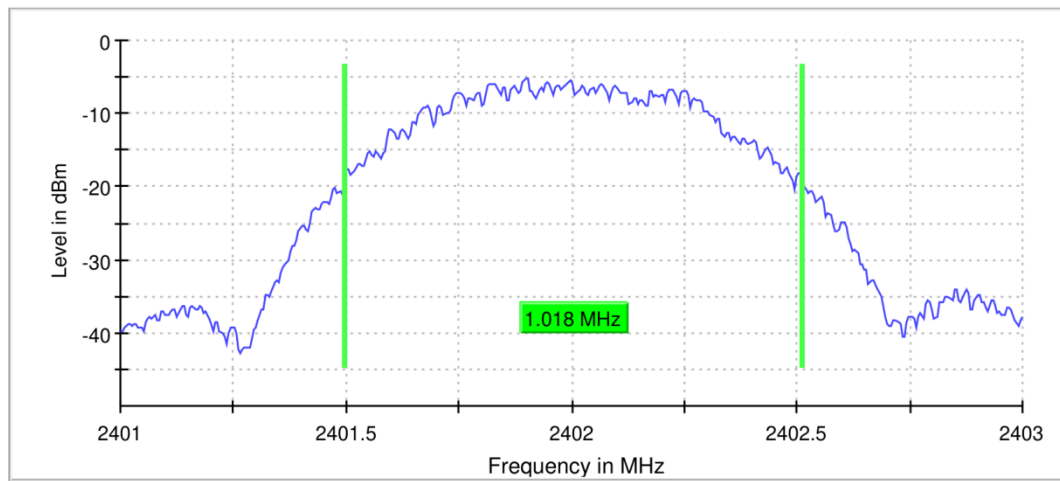
| TestMode | Antenna | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz]  | Verdict |
|----------|---------|---------|-----------|----------|----------|-------------|---------|
| BLE_1M   | ANT1    | 2402    | 1.018     | 2401.496 | 2402.514 | 2400-2483.5 | PASS    |
|          |         | 2440    | 1.018     | 2439.496 | 2440.514 | 2400-2483.5 | PASS    |
|          |         | 2480    | 1.023     | 2479.496 | 2480.519 | 2400-2483.5 | PASS    |



## TEST GRAPHS

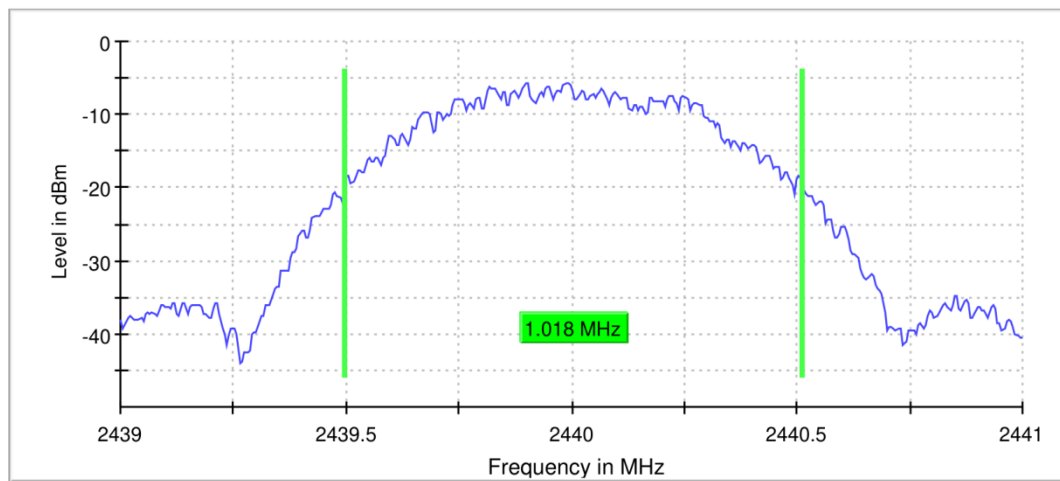
BLE\_1M\_ANT1\_2402

99 % Bandwidth

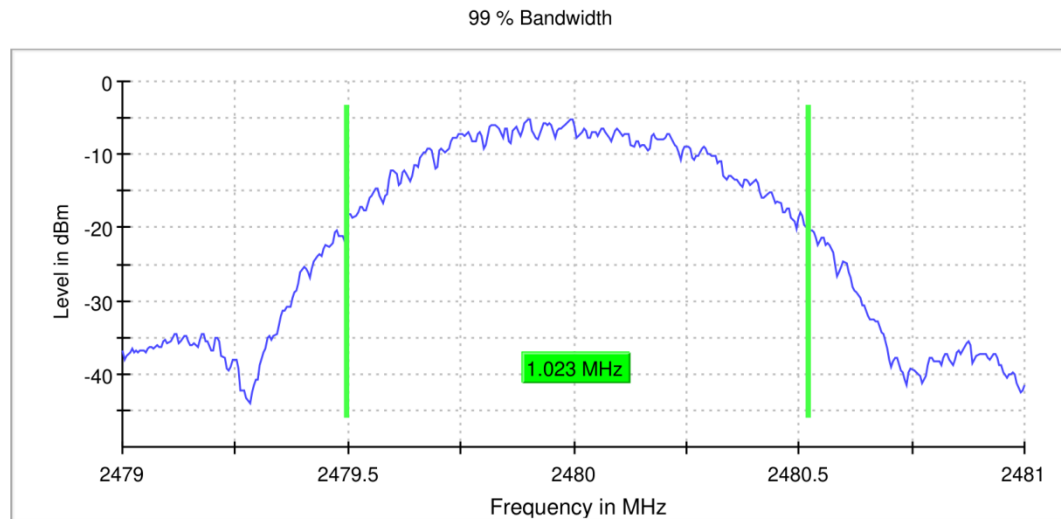


BLE\_1M\_ANT1\_2440

99 % Bandwidth



BLE\_1M\_ANT1\_2480



**RBW 30.000 kHz**

**VBW 100.000 kHz**

**MAXIMUM CONDUCTED OUTPUT POWER****TEST RESULT**

| TestMode | Antenna | Channel | Average<br>power<br>[dBm] | Peak<br>power<br>[dBm] | Peak<br>power<br>[mw] | Conduct<br>ed Limit<br>[dBm] | Verdic<br>t | Power<br>Setting |
|----------|---------|---------|---------------------------|------------------------|-----------------------|------------------------------|-------------|------------------|
| BLE_1M   | Ant1    | 2402    | 3.05                      | 4.87                   | 3.07                  | ≤30                          | PASS        | 7                |
|          |         | 2440    | 2.79                      | 4.24                   | 2.65                  | ≤30                          | PASS        | 7                |
|          |         | 2480    | 2.97                      | 4.67                   | 2.93                  | ≤30                          | PASS        | 7                |

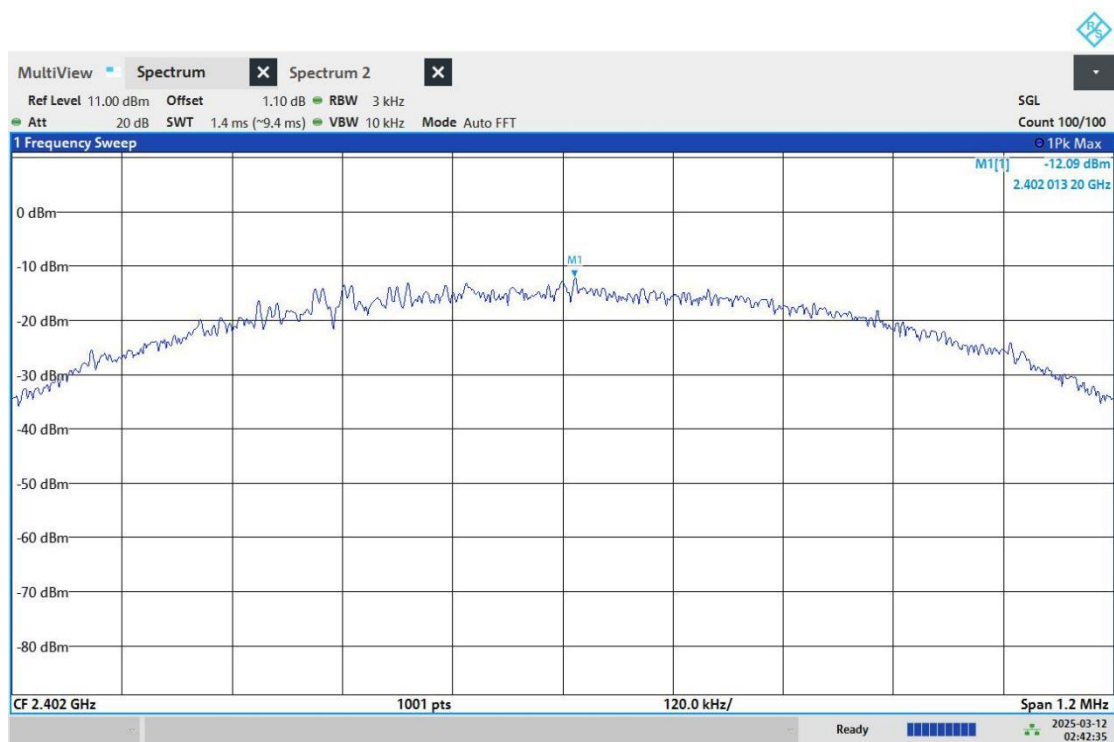
**MAXIMUM POWER SPECTRAL DENSITY****TEST RESULT**

| TestMode | Antenna | Channel | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|---------|------------------|-----------------|---------|
| BLE_1M   | ANT1    | 2402    | -12.09           | ≤8              | PASS    |
|          |         | 2440    | -12.02           | ≤8              | PASS    |
|          |         | 2480    | -12.50           | ≤8              | PASS    |



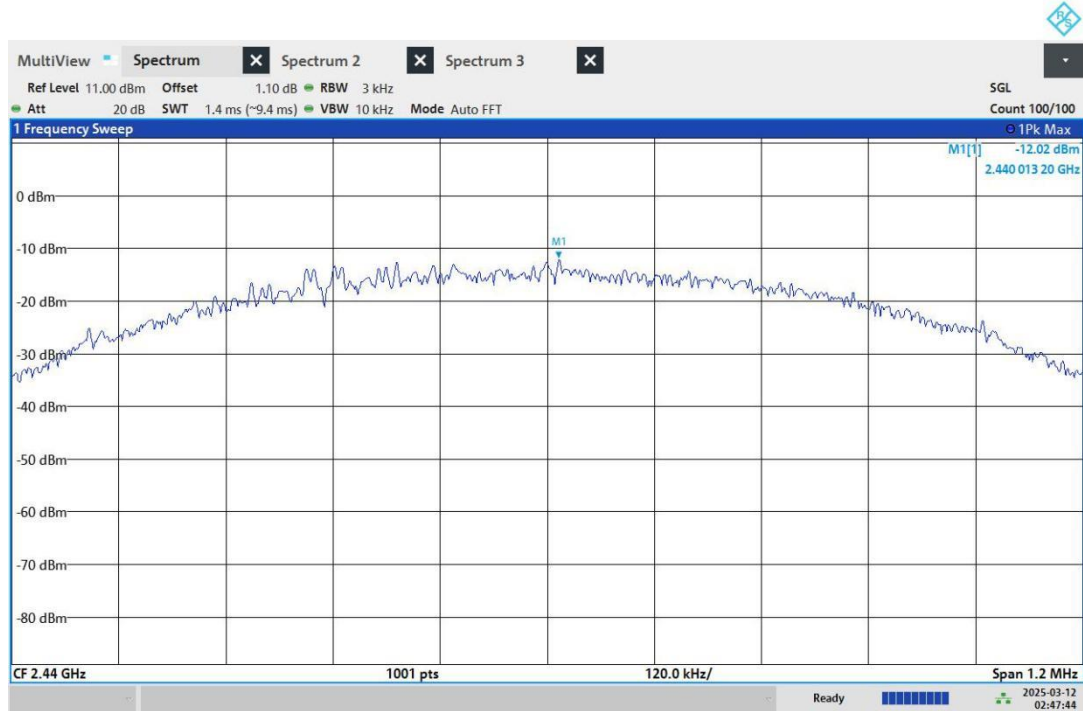
**BUREAU VERITAS** Test Report No.: PSU-QSU2502190110RF01  
**TEST GRAPHS**

BLE\_1M\_ANT1\_2402



02:42:36 AM 03/12/2025

BLE\_1M\_ANT1\_2440



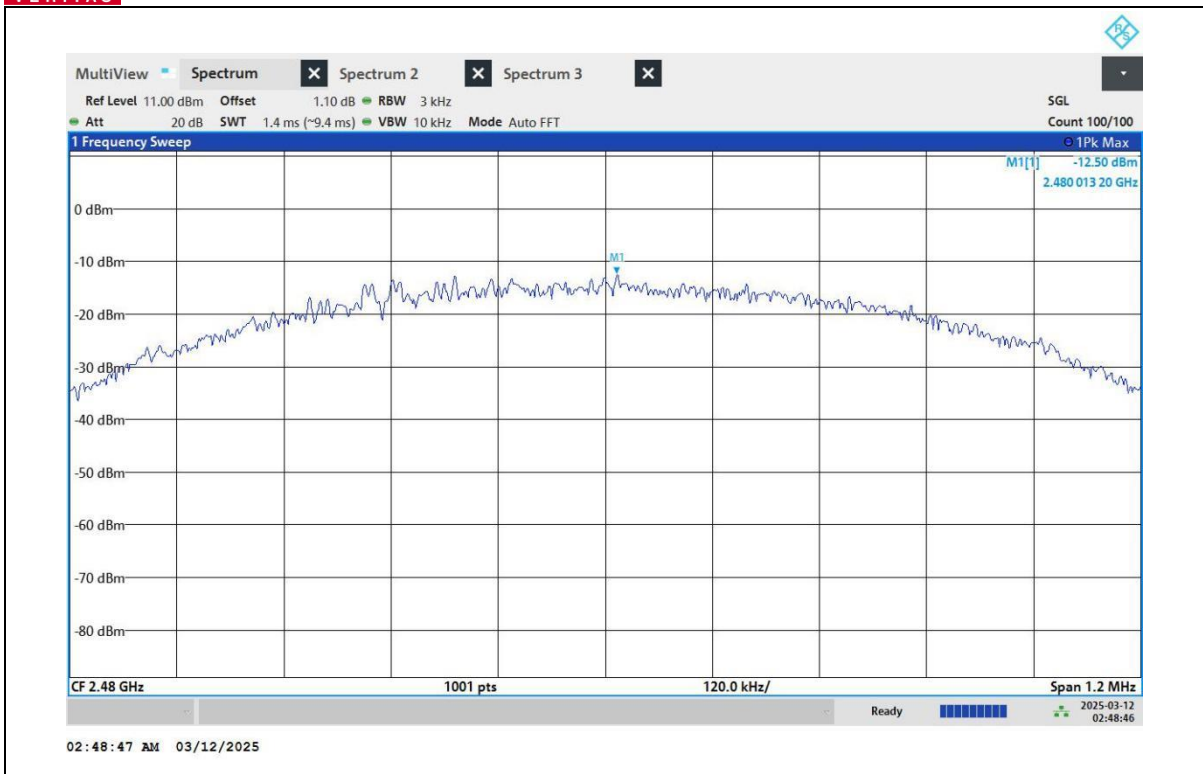
02:47:45 AM 03/12/2025

BLE\_1M\_ANT1\_2480

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## BAND EDGE MEASUREMENTS

### TEST RESULT

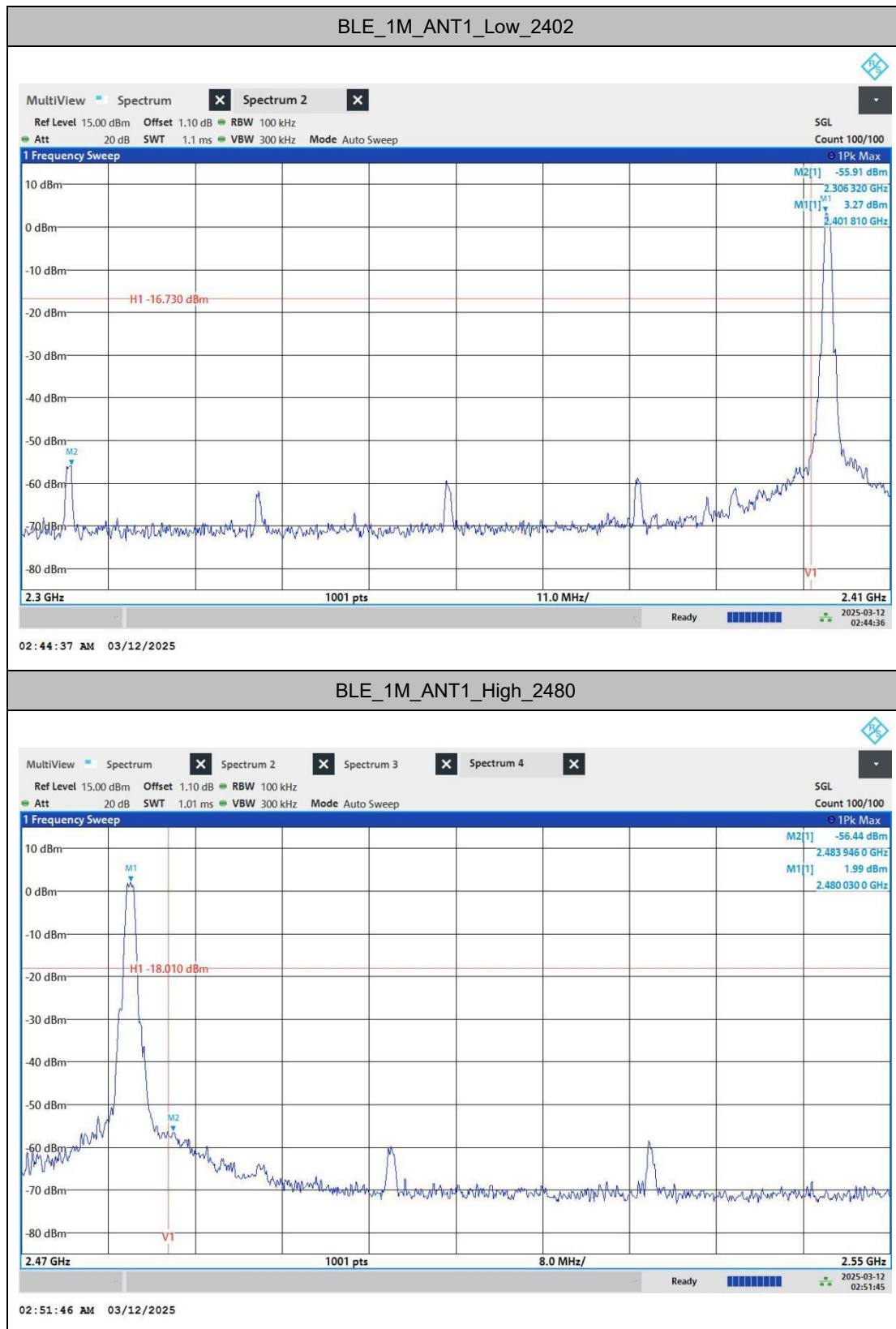
| TestMode | Antenna | ChName | Channel | Result[dBm]    | Limit[dBm]     | Verdict |
|----------|---------|--------|---------|----------------|----------------|---------|
| BLE_1M   | ANT1    | Low    | 2402    | See test graph | See test graph | PASS    |
|          |         | High   | 2480    | See test graph | See test graph | PASS    |



BUREAU  
VERITAS

# Test Report No.: PSU-QSU2502190110RF01

## TEST GRAPHS





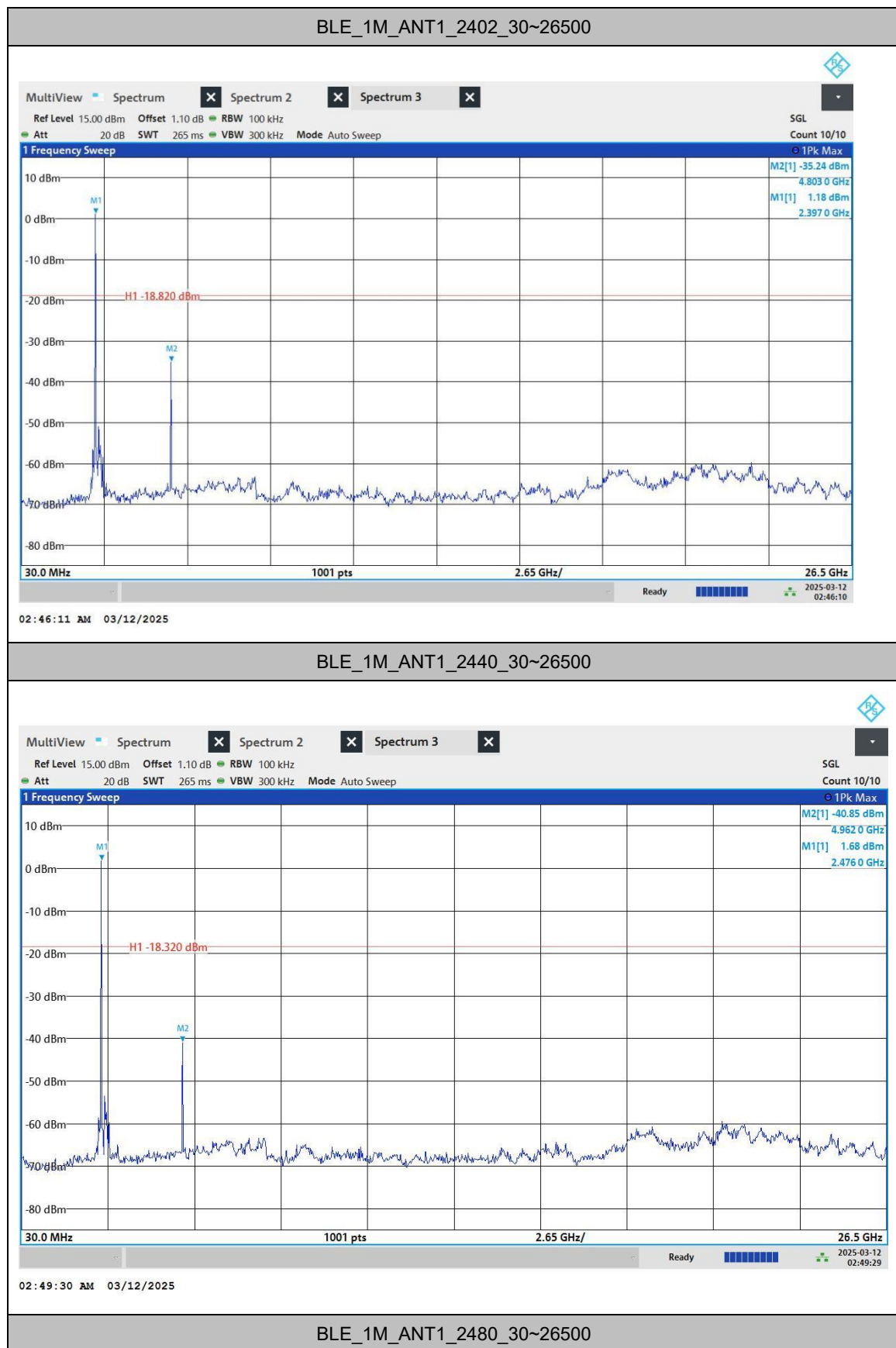
## CONDUCTED SPURIOUS EMISSION

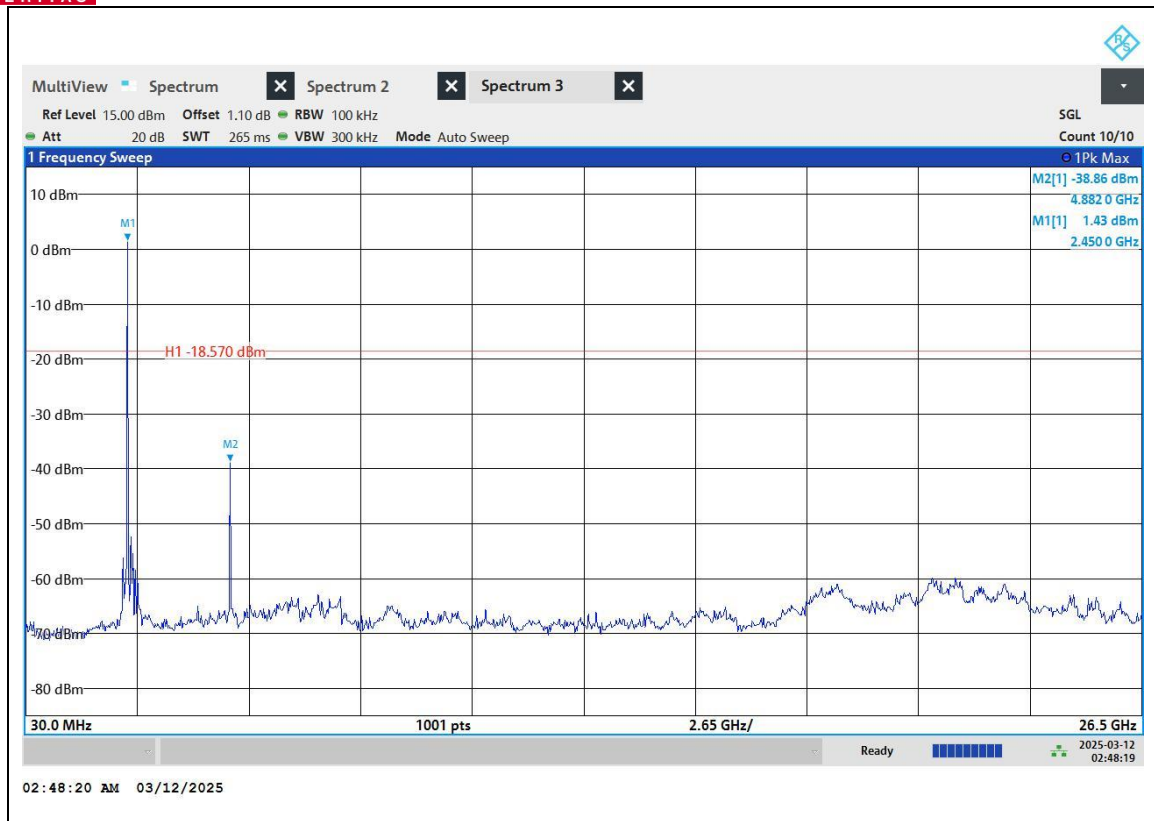
### TEST RESULT

| TestMode | Antenna | Channel | FreqRange<br>[MHz] | Result[dBm]    | Limit[dBm]     | Verdict |
|----------|---------|---------|--------------------|----------------|----------------|---------|
| BLE_1M   | ANT1    | 2402    | 30~26500           | See test graph | See test graph | PASS    |
|          |         | 2440    | 30~26500           | See test graph | See test graph | PASS    |
|          |         | 2480    | 30~26500           | See test graph | See test graph | PASS    |



## TEST GRAPHS





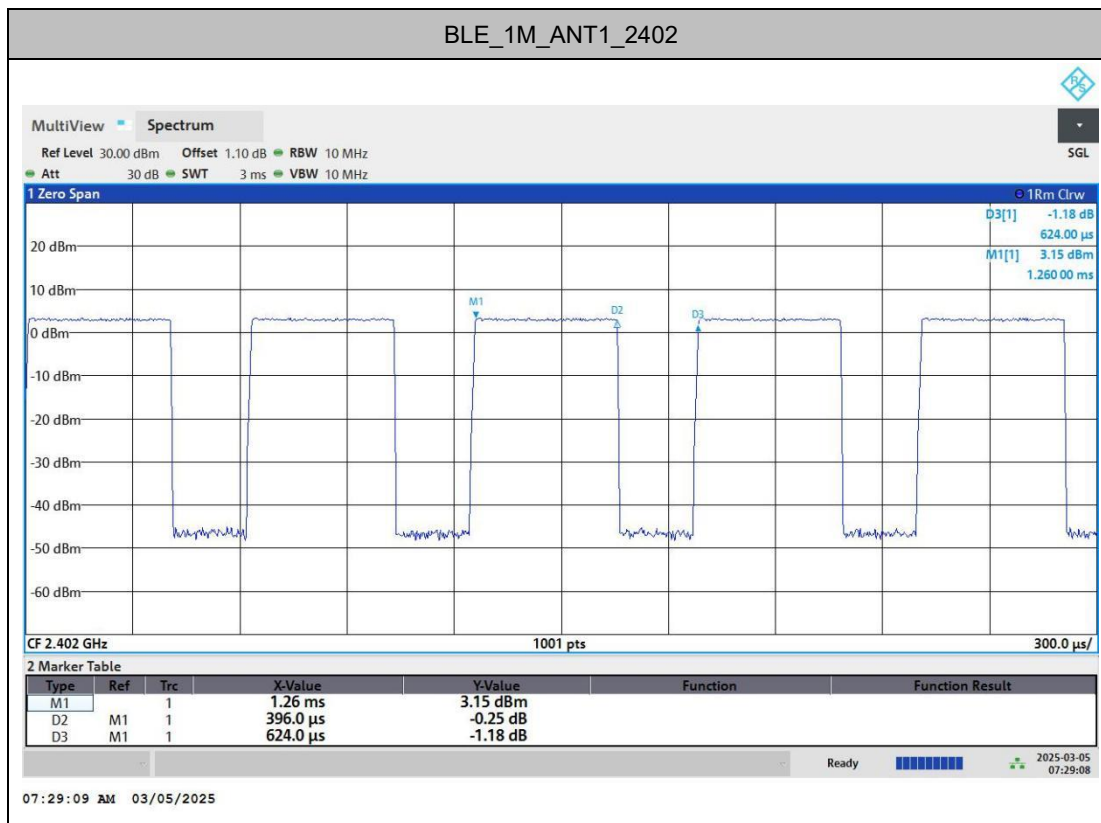


## DUTY CYCLE

## TEST RESULT

| TestMode | Antenna | Channel | ON Time<br>[ms] | Period<br>[ms] | DC<br>[%] | xFactor | Limit | Verdict |
|----------|---------|---------|-----------------|----------------|-----------|---------|-------|---------|
| BLE_1M   | ANT1    | 2402    | 0.396           | 0.624          | 84.4      | 0.74    | ---   | PASS    |

## TEST GRAPHS



--END--