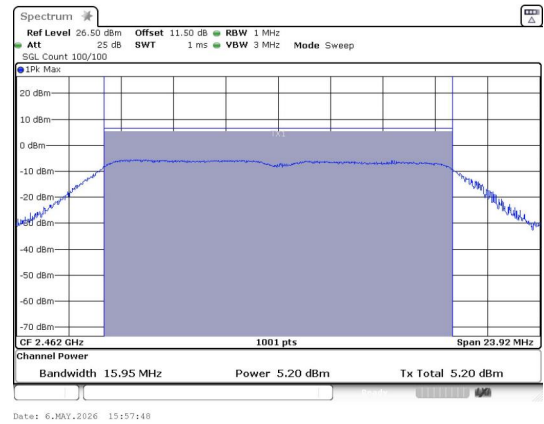
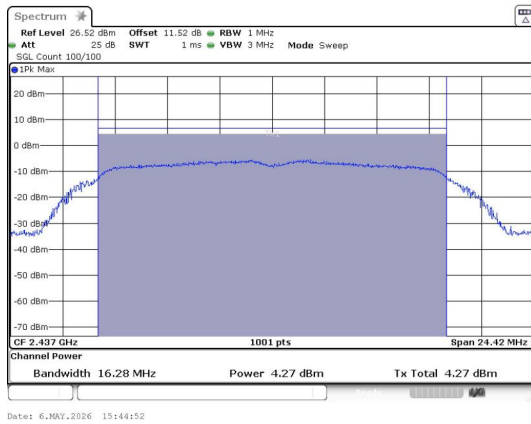
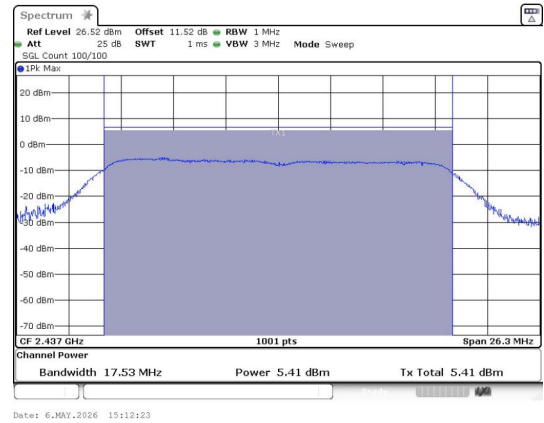
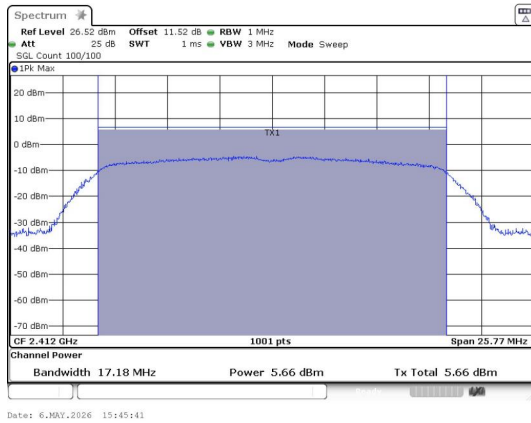




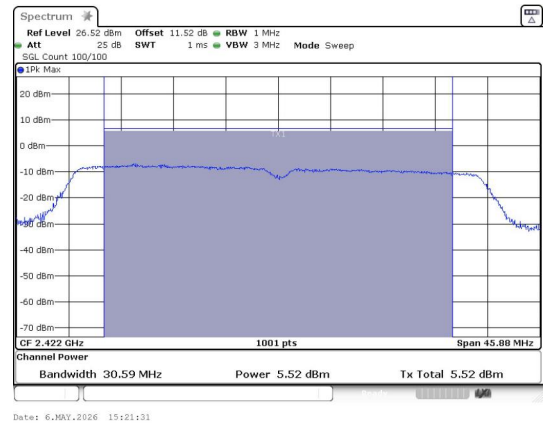
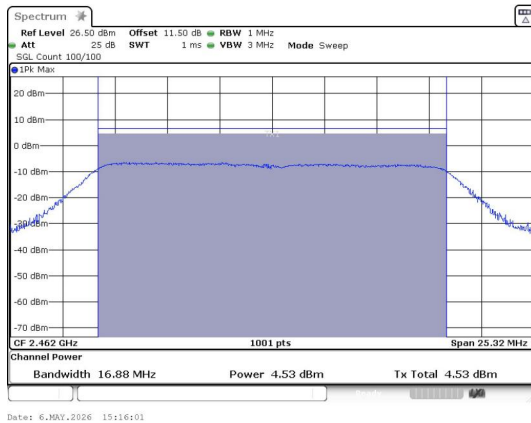
**Conducted Output Power  
IEEE 802.11g\_Channel 6\_Antenna 0**

**Conducted Output Power  
IEEE 802.11g\_Channel 11\_Antenna 0**



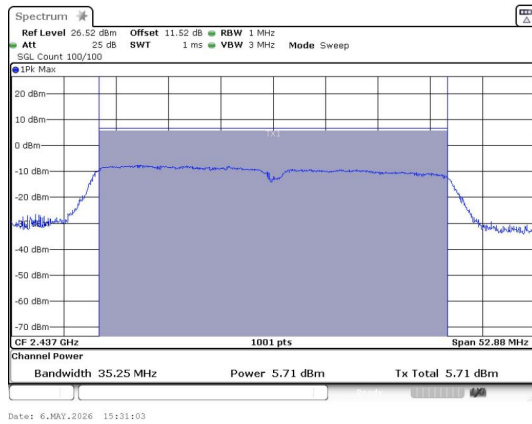
**Conducted Output Power  
IEEE 802.11n\_20\_Channel 1\_Antenna 0**

**Conducted Output Power  
IEEE 802.11n\_20\_Channel 6\_Antenna 0**

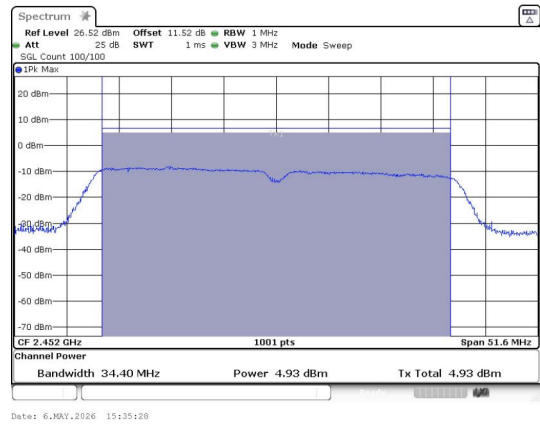


**Conducted Output Power  
IEEE 802.11n\_20\_Channel 11\_Antenna 0**

**Conducted Output Power  
IEEE 802.11n\_40\_Channel 3\_Antenna 0**



**Conducted Output Power  
IEEE 802.11n\_40\_Channel 6\_Antenna 0**



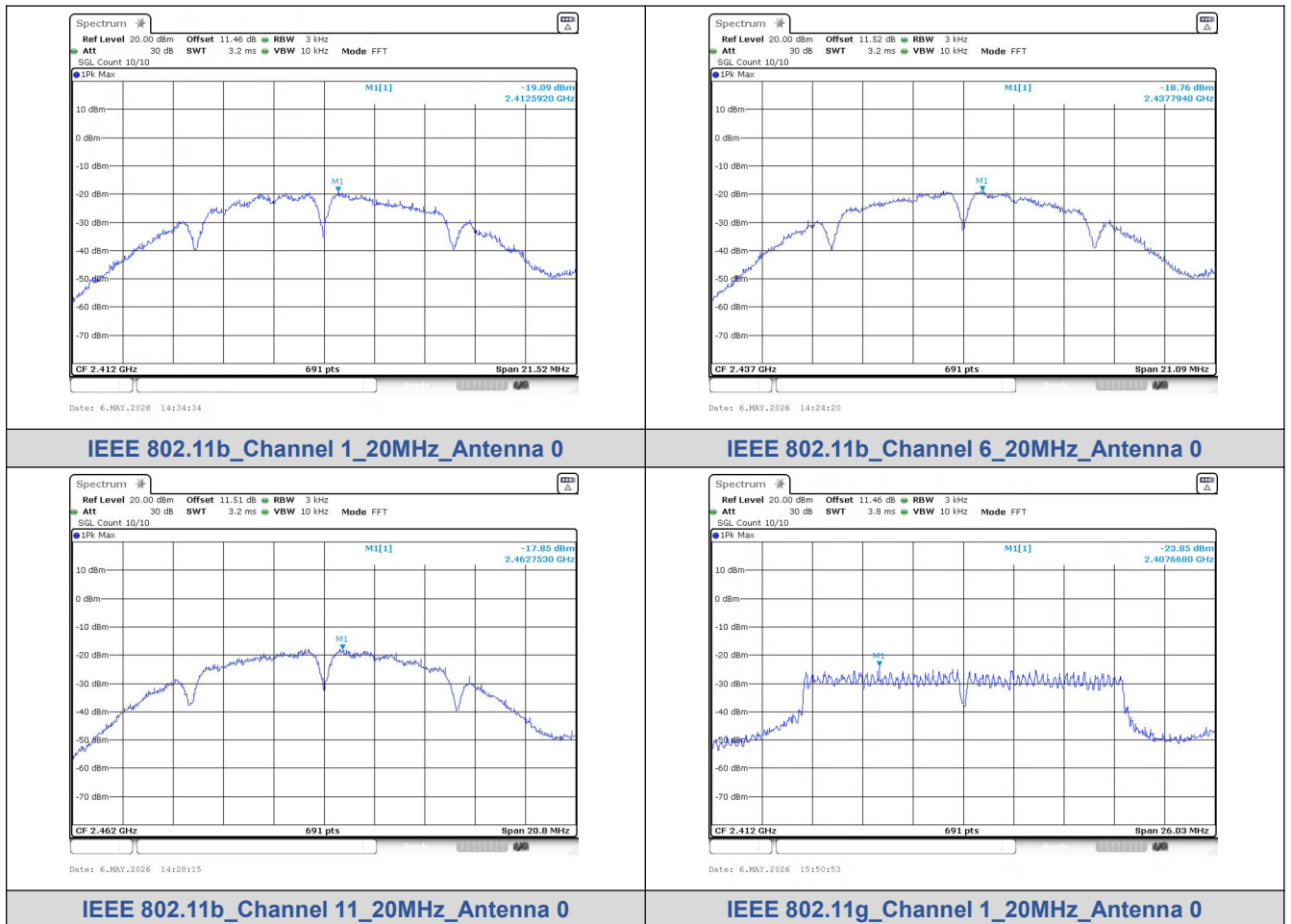
**Conducted Output Power  
IEEE 802.11n\_40\_Channel 9\_Antenna 0**

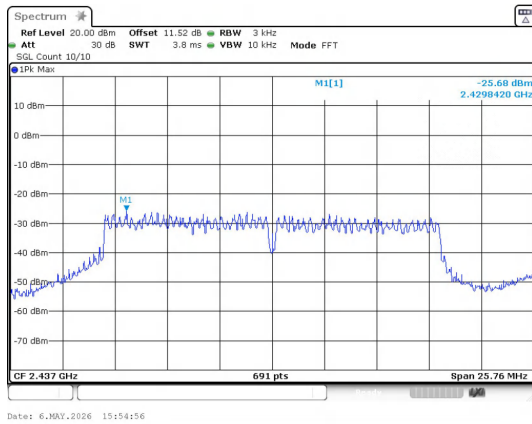
## 7.2. Power Spectral Density

### Test Result

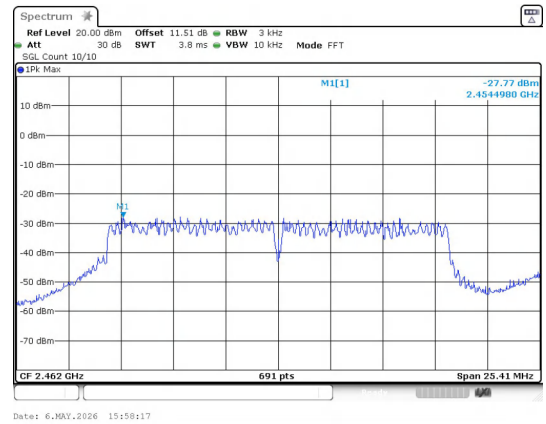
| Mode            | Channel | PSD<br>(dBm/3kHz)<br>Ant. 0 | Limit<br>(dBm/3kHz) | Result |
|-----------------|---------|-----------------------------|---------------------|--------|
| IEEE 802.11b    | 1       | -19.090                     | ≤8                  | PASS   |
|                 | 6       | -18.760                     |                     | PASS   |
|                 | 11      | -17.850                     |                     | PASS   |
| IEEE 802.11g    | 1       | -23.850                     |                     | PASS   |
|                 | 6       | -25.680                     |                     | PASS   |
|                 | 11      | -27.770                     |                     | PASS   |
| IEEE 802.11n_20 | 1       | -26.020                     |                     | PASS   |
|                 | 6       | -27.340                     |                     | PASS   |
|                 | 11      | -28.630                     |                     | PASS   |
| IEEE 802.11n_40 | 3       | -29.590                     |                     | PASS   |
|                 | 6       | -29.910                     |                     | PASS   |
|                 | 9       | -29.870                     |                     | PASS   |

### Test Graphs

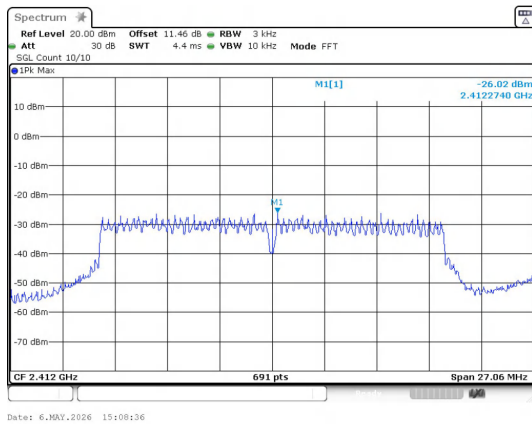




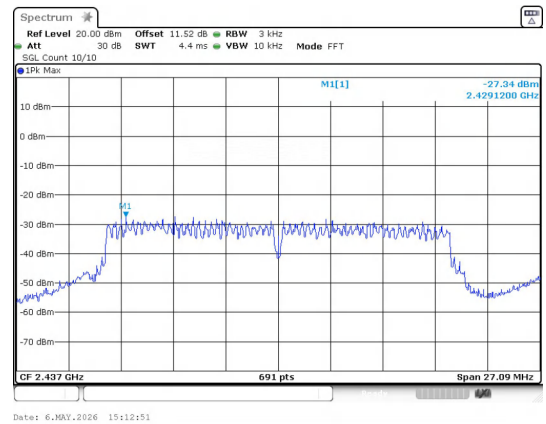
IEEE 802.11g\_Channel 6\_20MHz\_Antenna 0



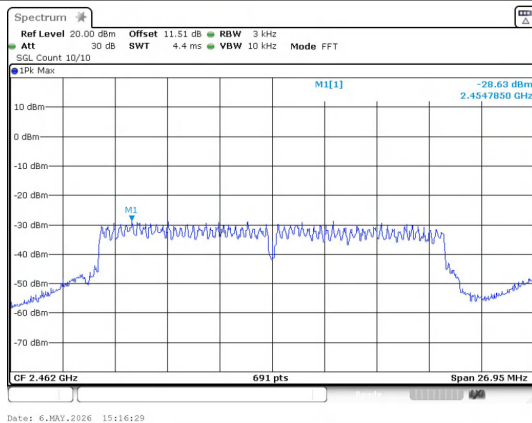
IEEE 802.11g\_Channel 11\_20MHz\_Antenna 0



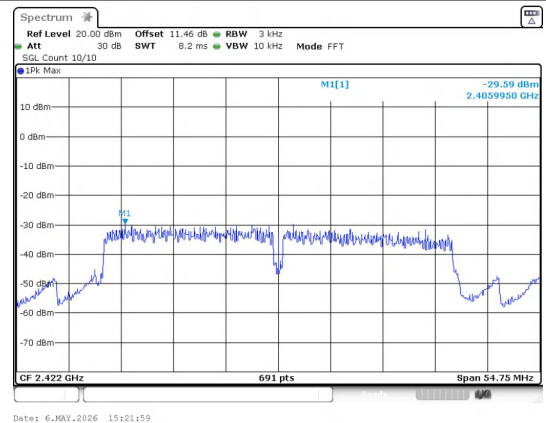
IEEE 802.11n\_Channel 1\_20MHz\_Antenna 0



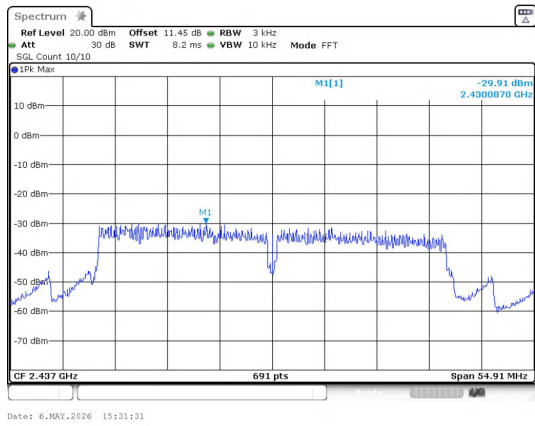
IEEE 802.11n\_Channel 6\_20MHz\_Antenna 0



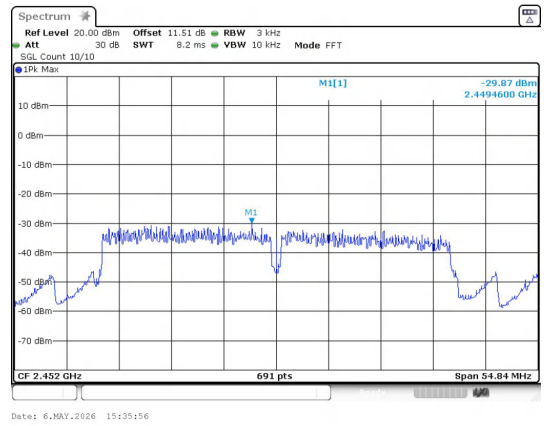
IEEE 802.11n\_Channel 11\_20MHz\_Antenna 0



IEEE 802.11n\_Channel 3\_40MHz\_Antenna 0



IEEE 802.11n\_Channel 6\_40MHz\_Antenna 0



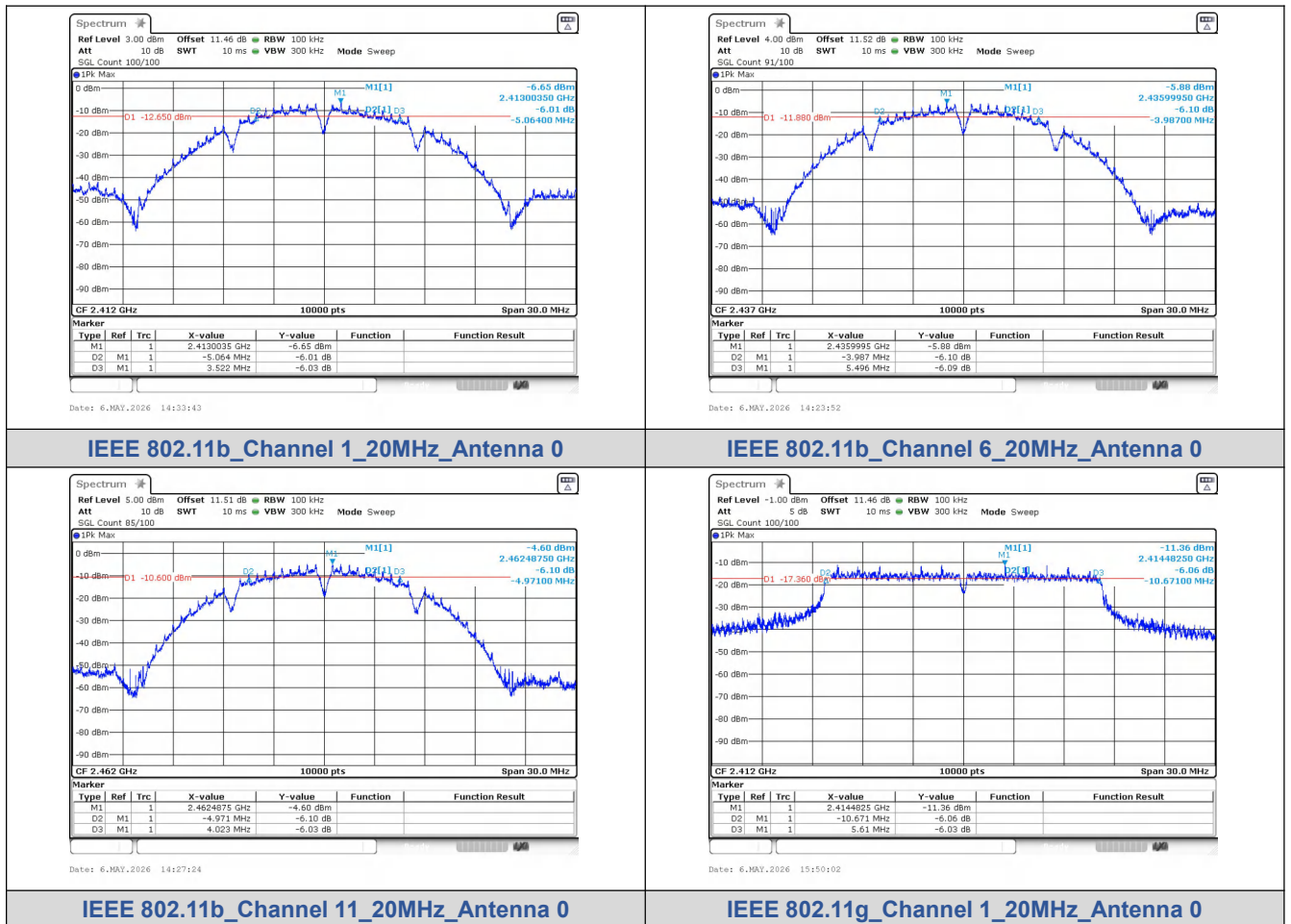
IEEE 802.11n\_Channel 9\_40MHz\_Antenna 0

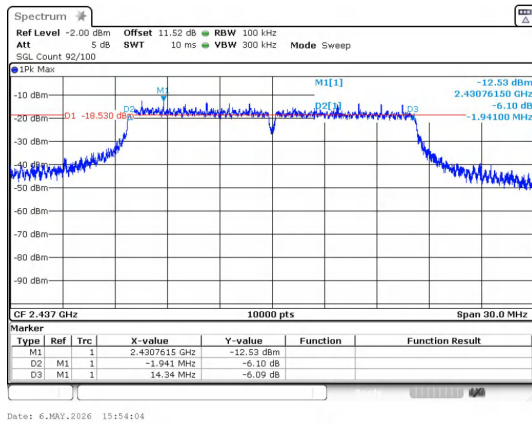
## 7.3. 6dB Bandwidth

### Test Result

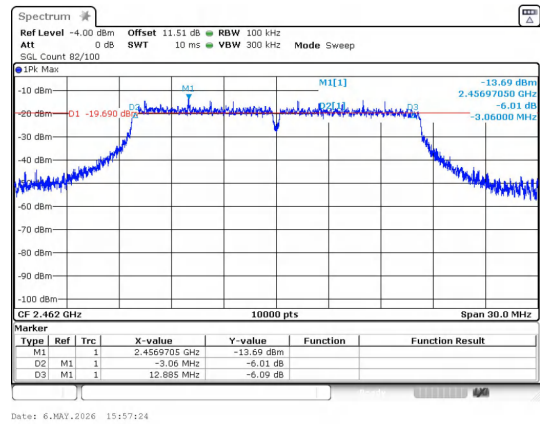
| Mode            | Channel | Ant. | Center Frequency (MHz) | 6 dB Bandwidth (MHz) | Limit (MHz) | Result |
|-----------------|---------|------|------------------------|----------------------|-------------|--------|
| IEEE 802.11b    | 1       | 0    | 2412                   | 8.590                | ≥0.5        | PASS   |
|                 | 6       |      | 2437                   | 9.490                |             | PASS   |
|                 | 11      |      | 2462                   | 8.990                |             | PASS   |
| IEEE 802.11g    | 1       |      | 2412                   | 16.28                |             | PASS   |
|                 | 6       |      | 2437                   | 16.28                |             | PASS   |
|                 | 11      |      | 2462                   | 15.95                |             | PASS   |
| IEEE 802.11n_20 | 1       |      | 2412                   | 17.18                |             | PASS   |
|                 | 6       |      | 2437                   | 17.53                |             | PASS   |
|                 | 11      |      | 2462                   | 16.88                |             | PASS   |
| IEEE 802.11n_40 | 3       |      | 2422                   | 30.59                |             | PASS   |
|                 | 6       |      | 2437                   | 35.25                |             | PASS   |
|                 | 9       |      | 2452                   | 34.40                |             | PASS   |

### Test Graphs

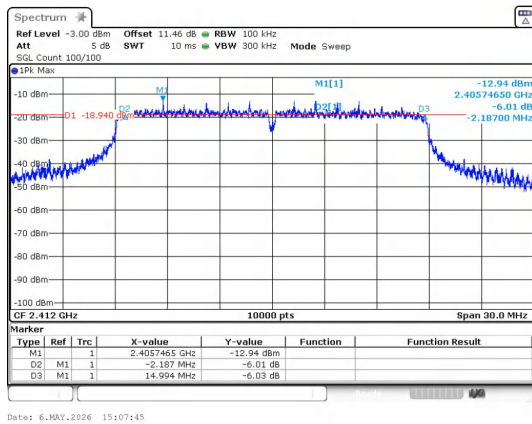




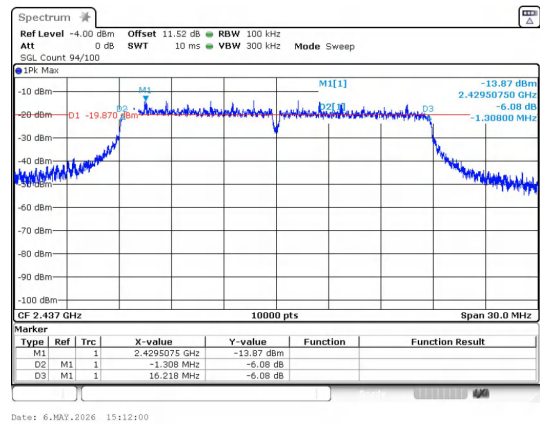
IEEE 802.11g\_Channel 6\_20MHz\_Antenna 0



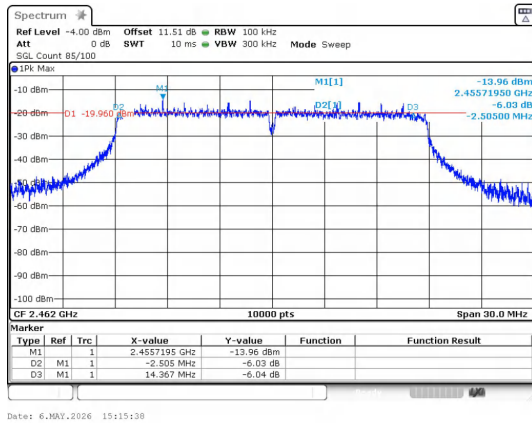
IEEE 802.11g\_Channel 11\_20MHz\_Antenna 0



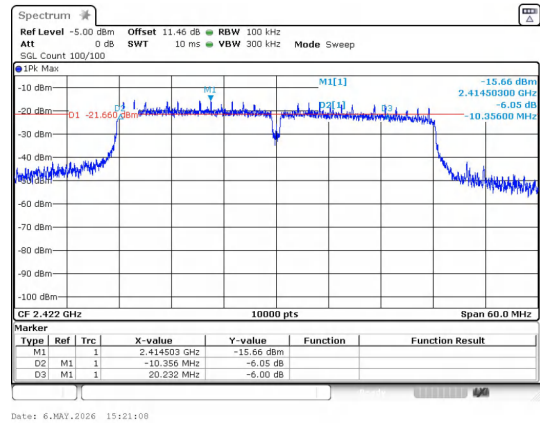
IEEE 802.11n\_Channel 1\_20MHz\_Antenna 0



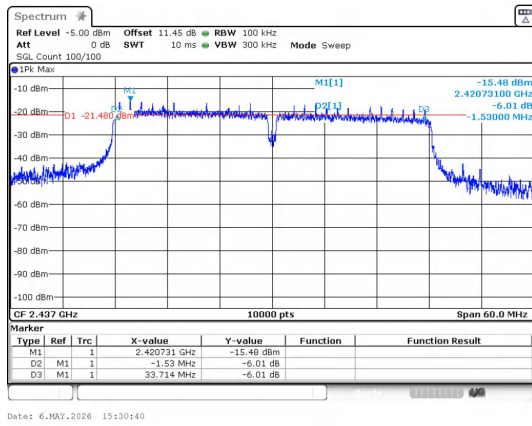
IEEE 802.11n\_Channel 6\_20MHz\_Antenna 0



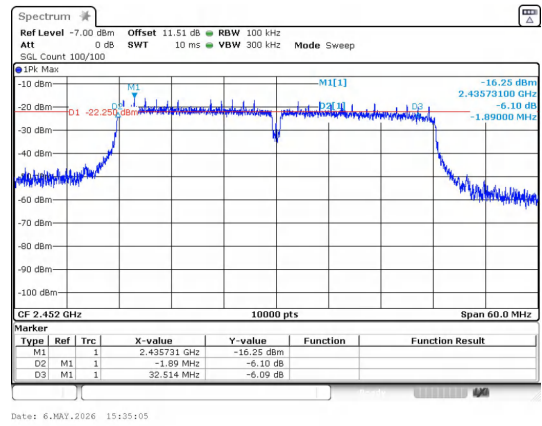
IEEE 802.11n\_Channel 11\_20MHz\_Antenna 0



IEEE 802.11n\_Channel 3\_40MHz\_Antenna 0



IEEE 802.11n\_Channel 6\_40MHz\_Antenna 0



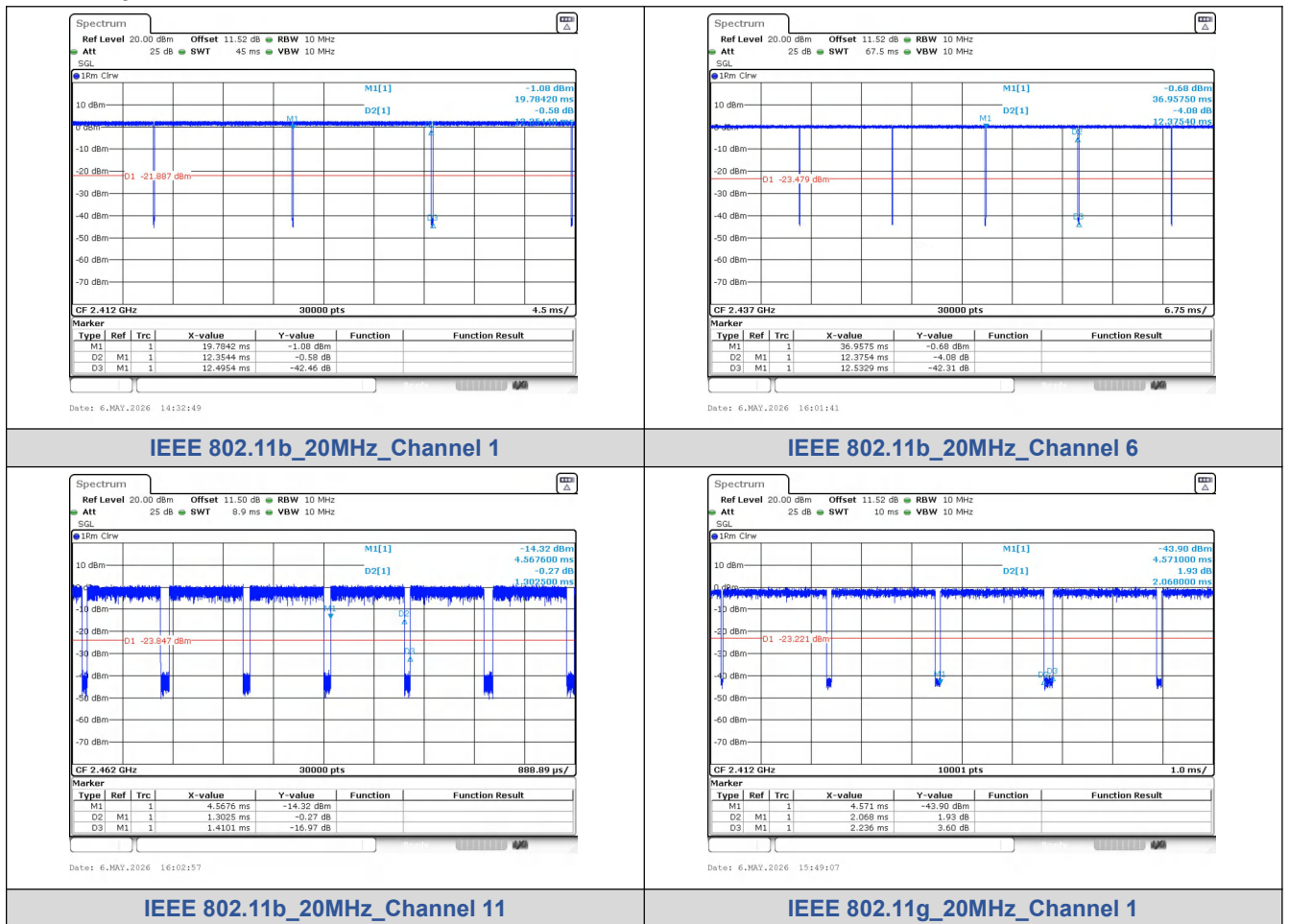
IEEE 802.11n\_Channel 9\_40MHz\_Antenna 0

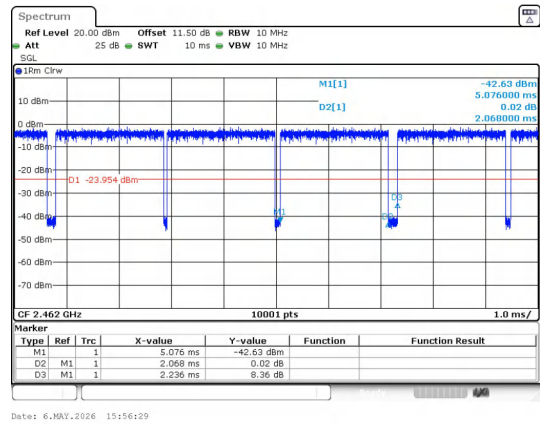
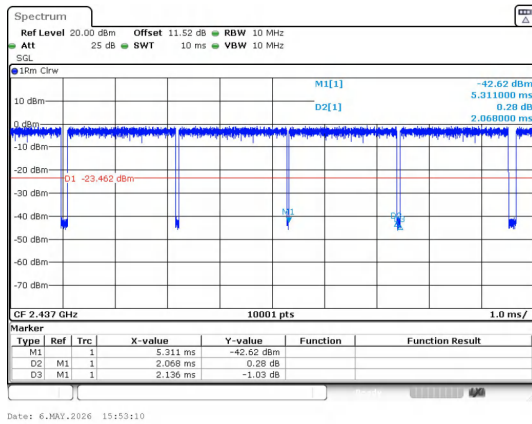
## 7.4. Duty Cycle

### Test Result

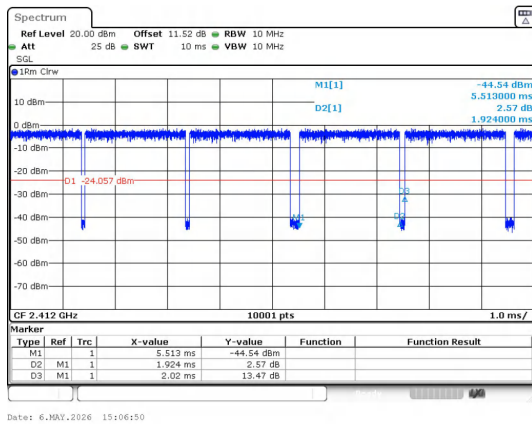
| Mode            | Data rates | Channel | Antenna | On Time (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle (linear) | Duty Cycle Factor (dB) | 1/T    |
|-----------------|------------|---------|---------|--------------|-------------|----------------|---------------------|------------------------|--------|
| IEEE 802.11b    | 1          | 1       | 1       | 12.354       | 12.495      | 98.87          | 0.9887              | 0.0494                 | 0.0809 |
|                 |            | 6       |         | 12.375       | 12.533      | 98.74          | 0.9874              | 0.0551                 | 0.0808 |
|                 |            | 11      |         | 1.303        | 1.410       | 92.37          | 0.9237              | 0.3447                 | 0.7675 |
| IEEE 802.11g    |            | 1       |         | 2.068        | 2.236       | 92.49          | 0.9249              | 0.3391                 | 0.4836 |
|                 |            | 6       |         | 2.068        | 2.136       | 96.82          | 0.9682              | 0.1403                 | 0.4836 |
|                 |            | 11      |         | 2.068        | 2.236       | 92.49          | 0.9249              | 0.3391                 | 0.4836 |
| IEEE 802.11n_20 | MCS 0      | 1       | 1       | 1.924        | 2.020       | 95.25          | 0.9525              | 0.2114                 | 0.5198 |
|                 |            | 6       |         | 1.924        | 2.011       | 95.67          | 0.9567              | 0.1922                 | 0.5198 |
|                 |            | 11      |         | 1.924        | 2.047       | 93.99          | 0.9399              | 0.2692                 | 0.5198 |
| IEEE 802.11n_40 |            | 3       |         | 0.940        | 1.018       | 92.32          | 0.9232              | 0.347                  | 1.0638 |
|                 |            | 6       |         | 0.939        | 1.107       | 84.86          | 0.8486              | 0.713                  | 1.0650 |
|                 |            | 9       |         | 0.940        | 1.107       | 84.87          | 0.8487              | 0.7125                 | 1.0638 |

### Test Graphs

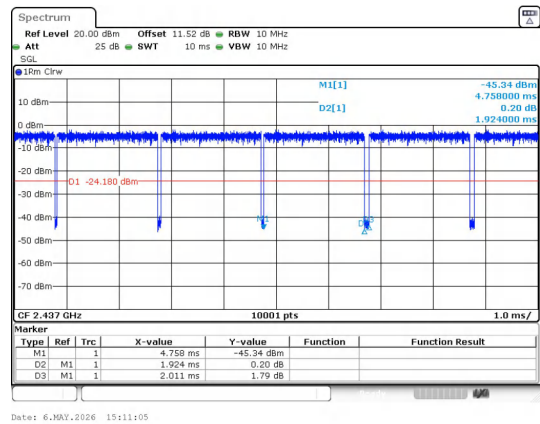




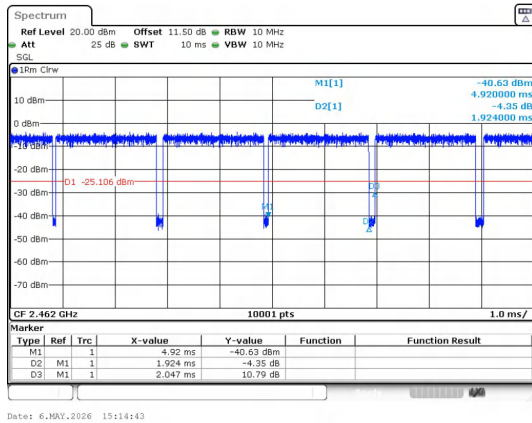
### IEEE 802.11g\_20MHz\_Channel 6



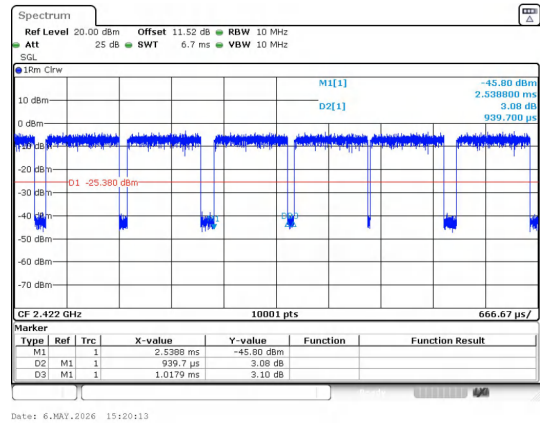
### IEEE 802.11g\_20MHz\_Channel 11



### IEEE 802.11n\_20MHz\_Channel 1

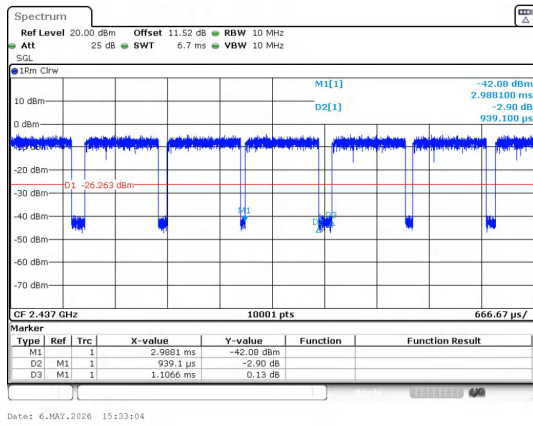


### IEEE 802.11n\_20MHz\_Channel 6

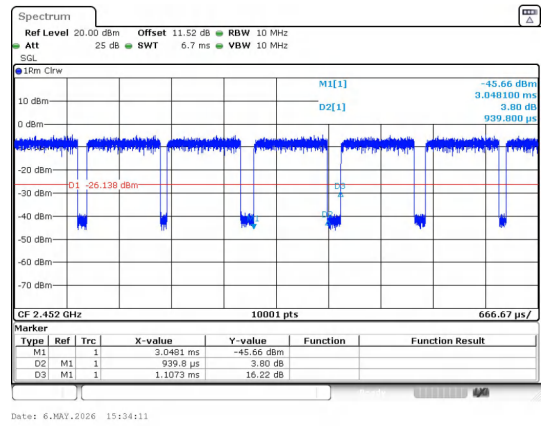


### IEEE 802.11n\_20MHz\_Channel 11

### IEEE 802.11n\_40MHz\_Channel 3



IEEE 802.11n\_40MHz\_Channel 6



IEEE 802.11n\_40MHz\_Channel 9

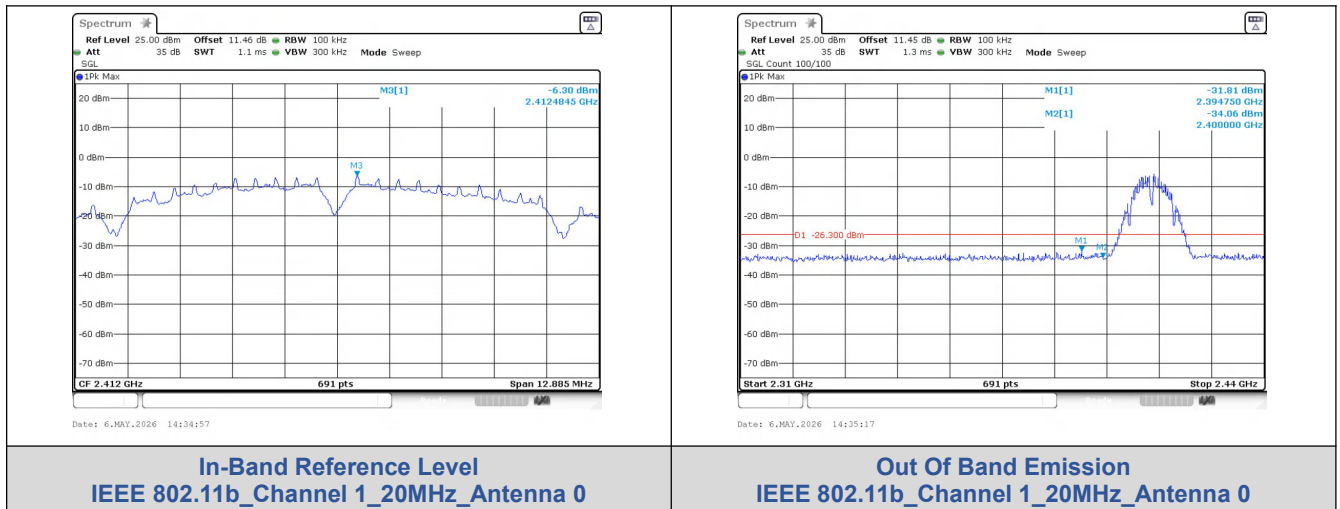
## 7.5. Conducted Spurious & Band Edge Emission

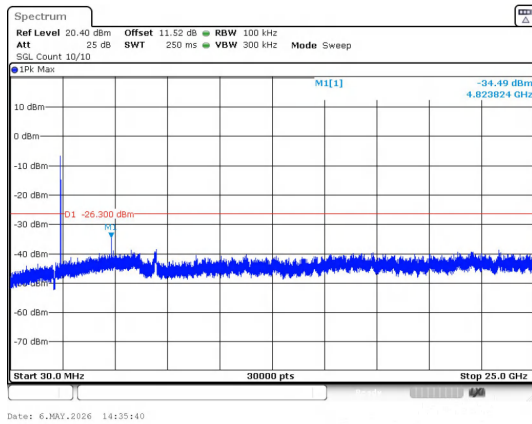
### Test Result

| Mode                                                       | Channel | Ant. | OOB<br>Emission<br>Frequency<br>(MHz) | OOB<br>Emission<br>Level<br>(dBm) | Limit<br>(dBm) | Over Limit<br>(dB) | Result |
|------------------------------------------------------------|---------|------|---------------------------------------|-----------------------------------|----------------|--------------------|--------|
| IEEE<br>802.11b                                            | 1       | 0    | 2394.75                               | -31.809                           | -26.3          | -5.509             | PASS   |
|                                                            |         |      | 2400.00                               | -34.060                           | -26.3          | -7.760             | PASS   |
|                                                            |         |      | 4823.80                               | -34.489                           | -26.3          | -8.189             | PASS   |
|                                                            | 6       |      | 4873.76                               | -34.405                           | -25.68         | -8.725             | PASS   |
|                                                            | 11      |      | 2483.50                               | -32.310                           | -25.0          | -7.310             | PASS   |
|                                                            |         |      | 4923.70                               | -35.467                           | -25.0          | -10.467            | PASS   |
| IEEE<br>802.11g                                            | 1       |      | 2400.00                               | -34.220                           | -30.3          | -3.920             | PASS   |
|                                                            |         |      | 6908.82                               | -38.673                           | -30.3          | -8.373             | PASS   |
|                                                            | 6       |      | 22065.6                               | -38.525                           | -31.96         | -6.565             | PASS   |
|                                                            | 11      |      | 2483.50                               | -43.460                           | -34.88         | -8.580             | PASS   |
|                                                            |         |      | 6954.60                               | -38.829                           | -34.88         | -3.949             | PASS   |
| IEEE<br>802.11n_20                                         | 1       |      | 2400.00                               | -38.430                           | -33.09         | -5.340             | PASS   |
|                                                            |         |      | 6957.09                               | -38.447                           | -33.09         | -5.357             | PASS   |
|                                                            | 6       |      | 22063.9                               | -38.424                           | -34.0          | -4.424             | PASS   |
|                                                            | 11      |      | 2483.50                               | -43.430                           | -34.13         | -9.300             | PASS   |
|                                                            |         |      | 22051.5                               | -37.430                           | -34.13         | -3.300             | PASS   |
| IEEE<br>802.11n_40                                         | 3       |      | 2400.00                               | -39.140                           | -35.33         | -3.810             | PASS   |
|                                                            |         |      | 22050.6                               | -38.038                           | -35.33         | -2.708             | PASS   |
|                                                            | 6       |      | 22010.7                               | -37.938                           | -35.34         | -2.598             | PASS   |
|                                                            | 9       |      | 2483.50                               | -43.910                           | -36.04         | -7.870             | PASS   |
|                                                            |         |      | 6935.45                               | -38.491                           | -36.04         | -2.451             | PASS   |
| Note: input compensation coefficient (dB)= Cable Loss (dB) |         |      |                                       |                                   |                |                    |        |

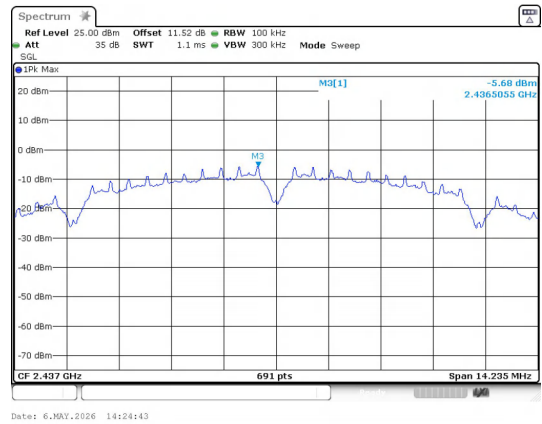
Note: input compensation coefficient (dB)= Cable Loss (dB)

### Test Graphs

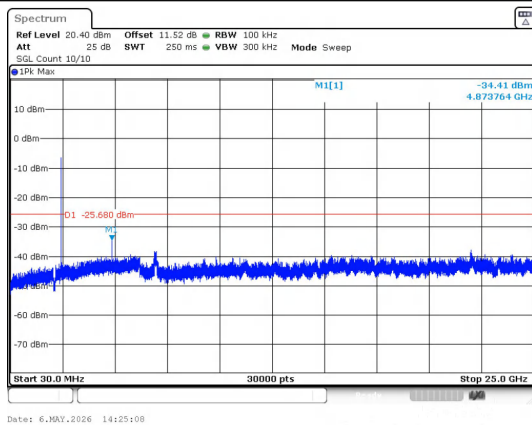




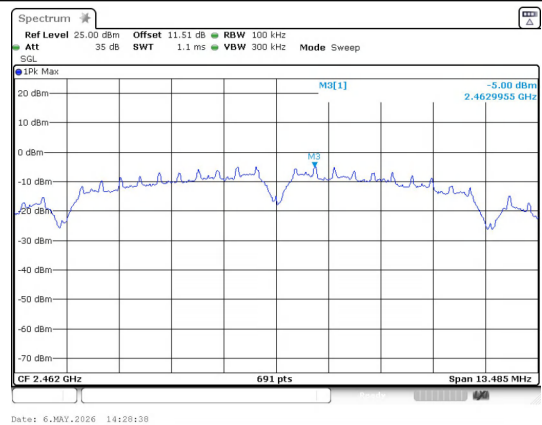
**30.0 MHz - 25000.0 MHz**  
**IEEE 802.11b\_Channel 1\_20MHz\_Antenna 0**



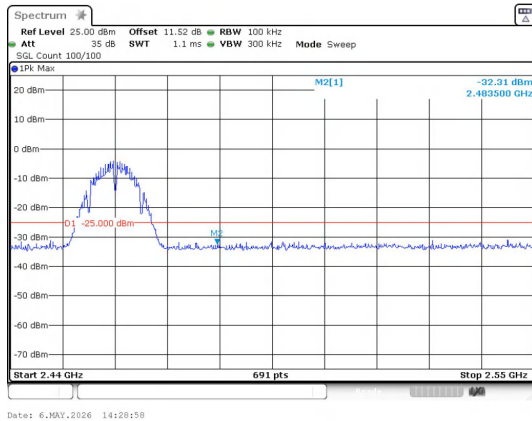
**In-Band Reference Level**  
**IEEE 802.11b\_Channel 6\_20MHz\_Antenna 0**



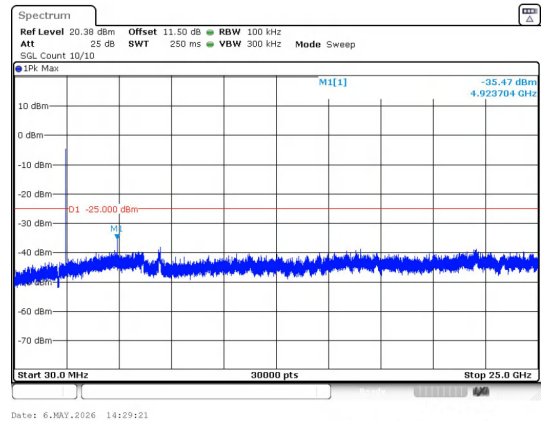
**30.0 MHz - 25000.0 MHz**  
**IEEE 802.11b\_Channel 6\_20MHz\_Antenna 0**



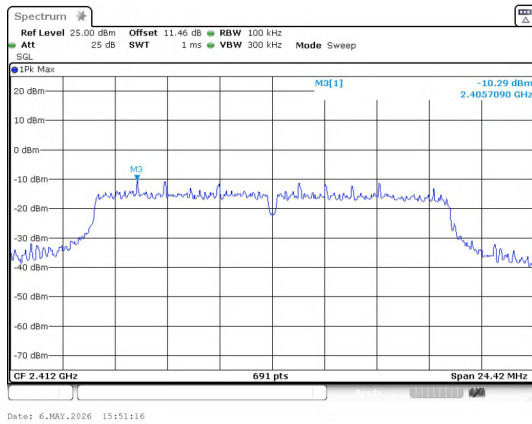
**In-Band Reference Level**  
**IEEE 802.11b\_Channel 11\_20MHz\_Antenna 0**



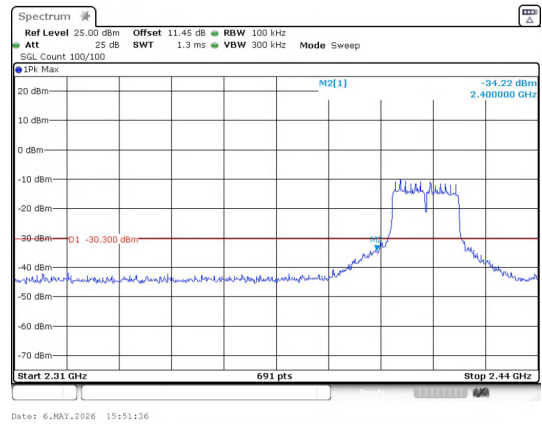
**Out Of Band Emission**  
**IEEE 802.11b\_Channel 11\_20MHz\_Antenna 0**



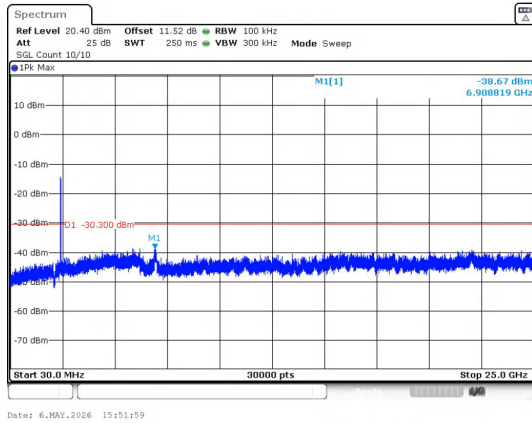
**30.0 MHz - 25000.0 MHz**  
**IEEE 802.11b\_Channel 11\_20MHz\_Antenna 0**



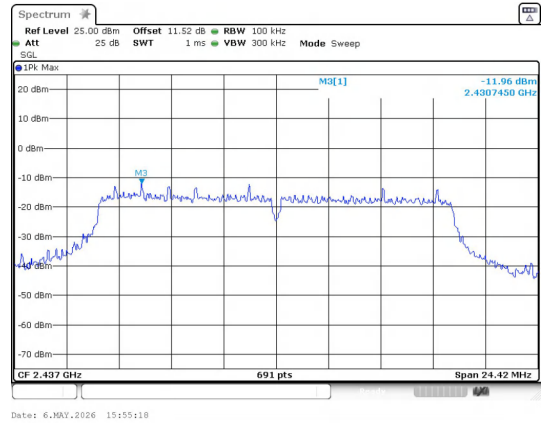
**In-Band Reference Level  
IEEE 802.11g\_Channel 1\_20MHz\_Antenna 0**



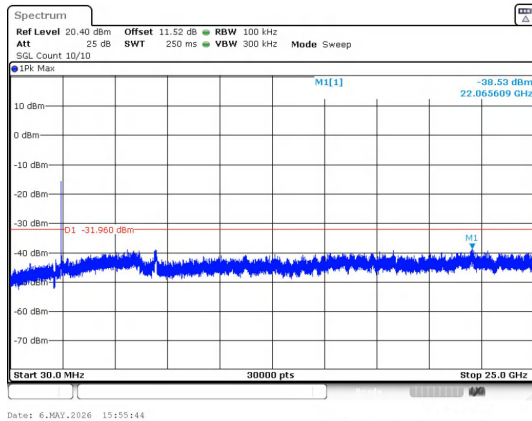
**Out Of Band Emission  
IEEE 802.11g\_Channel 1\_20MHz\_Antenna 0**



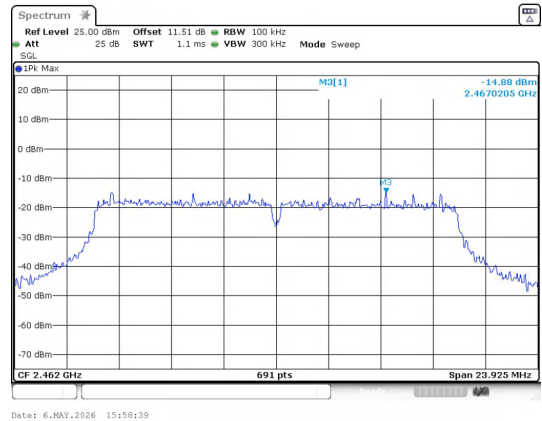
**30.0 MHz - 25000.0 MHz  
IEEE 802.11g\_Channel 1\_20MHz\_Antenna 0**



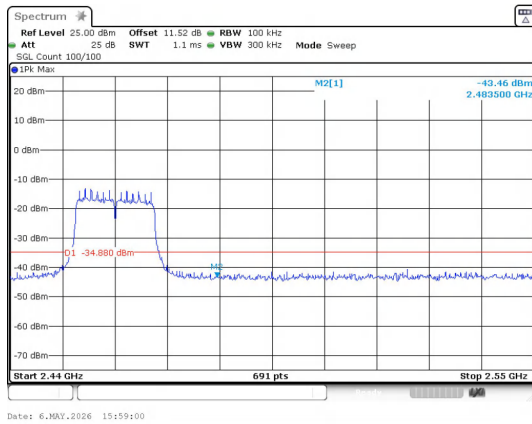
**In-Band Reference Level  
IEEE 802.11g\_Channel 6\_20MHz\_Antenna 0**



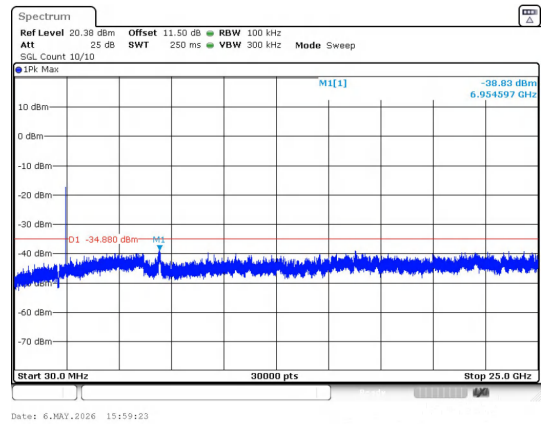
**30.0 MHz - 25000.0 MHz  
IEEE 802.11g\_Channel 6\_20MHz\_Antenna 0**



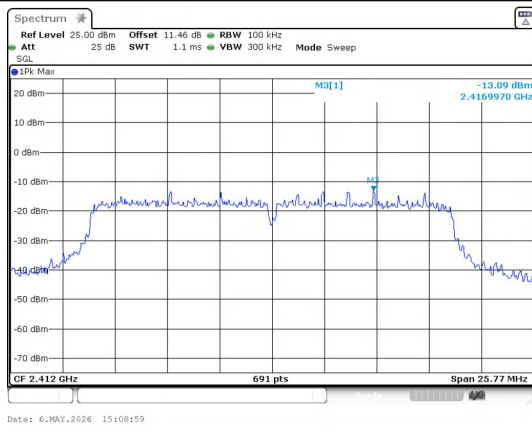
**In-Band Reference Level  
IEEE 802.11g\_Channel 11\_20MHz\_Antenna 0**



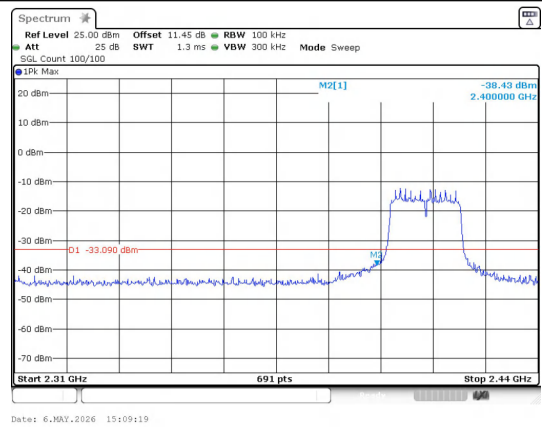
**Out Of Band Emission**  
**IEEE 802.11g\_Channel 11\_20MHz\_Antenna 0**



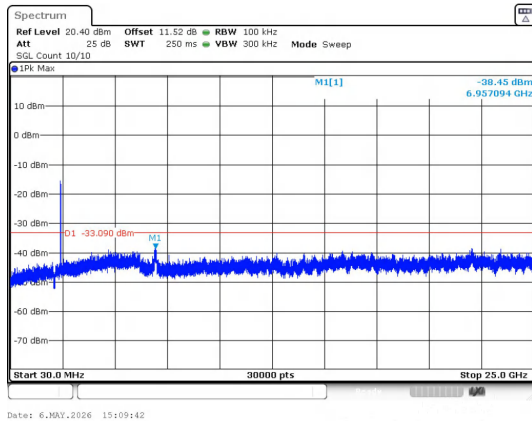
**30.0 MHz - 25000.0 MHz**  
**IEEE 802.11g\_Channel 11\_20MHz\_Antenna 0**



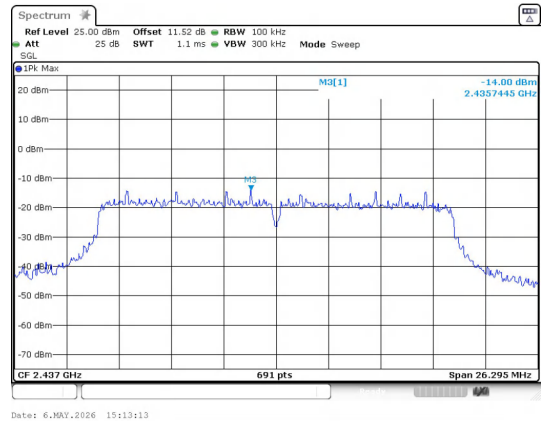
**In-Band Reference Level**  
**IEEE 802.11n\_Channel 1\_20MHz\_Antenna 0**



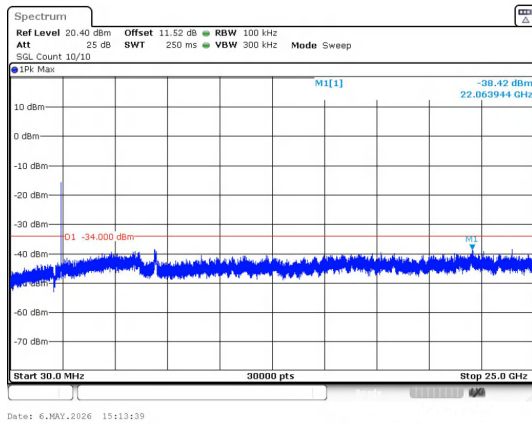
**Out Of Band Emission**  
**IEEE 802.11n\_Channel 1\_20MHz\_Antenna 0**



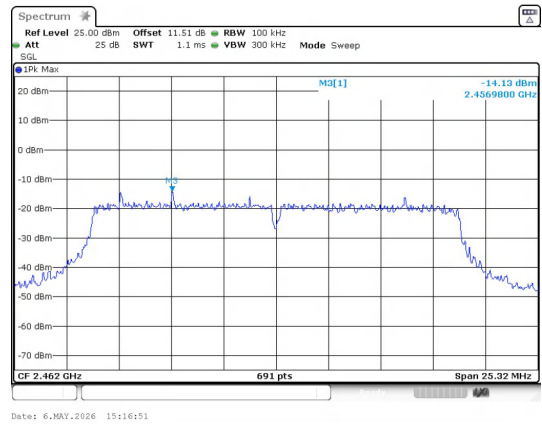
**30.0 MHz - 25000.0 MHz**  
**IEEE 802.11n\_Channel 1\_20MHz\_Antenna 0**



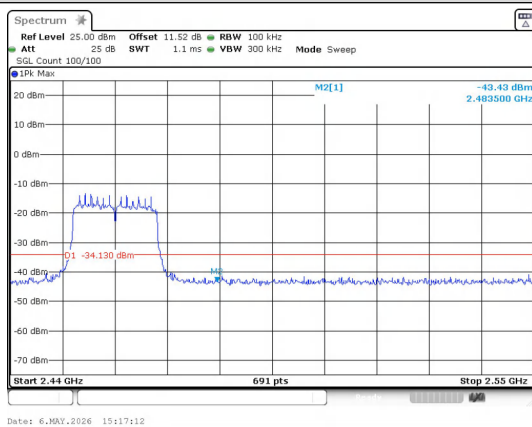
**In-Band Reference Level**  
**IEEE 802.11n\_Channel 6\_20MHz\_Antenna 0**



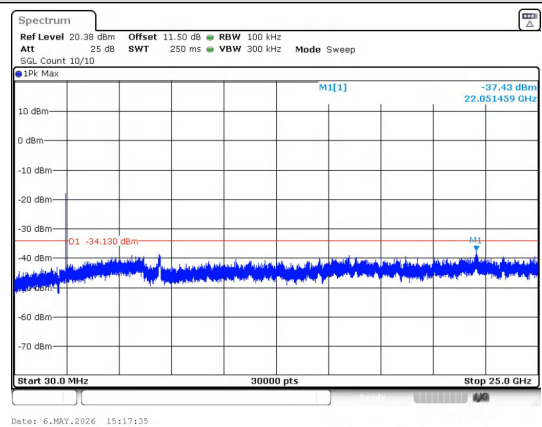
**30.0 MHz - 25000.0 MHz**  
**IEEE 802.11n\_Channel 6\_20MHz\_Antenna 0**



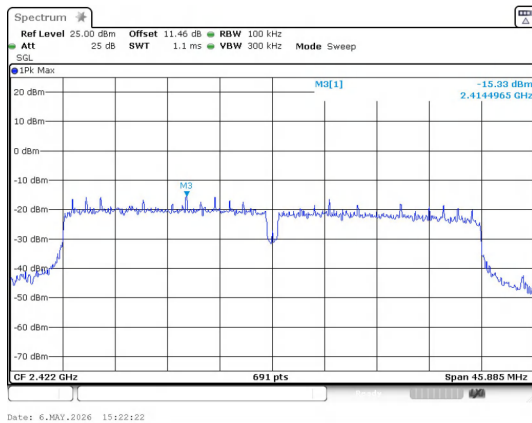
**In-Band Reference Level**  
**IEEE 802.11n\_Channel 11\_20MHz\_Antenna 0**



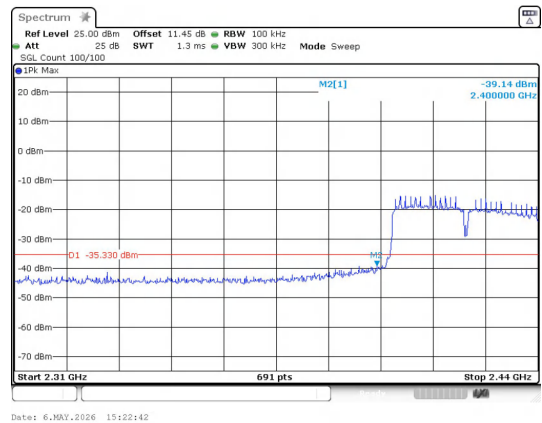
**Out Of Band Emission**  
**IEEE 802.11n\_Channel 11\_20MHz\_Antenna 0**



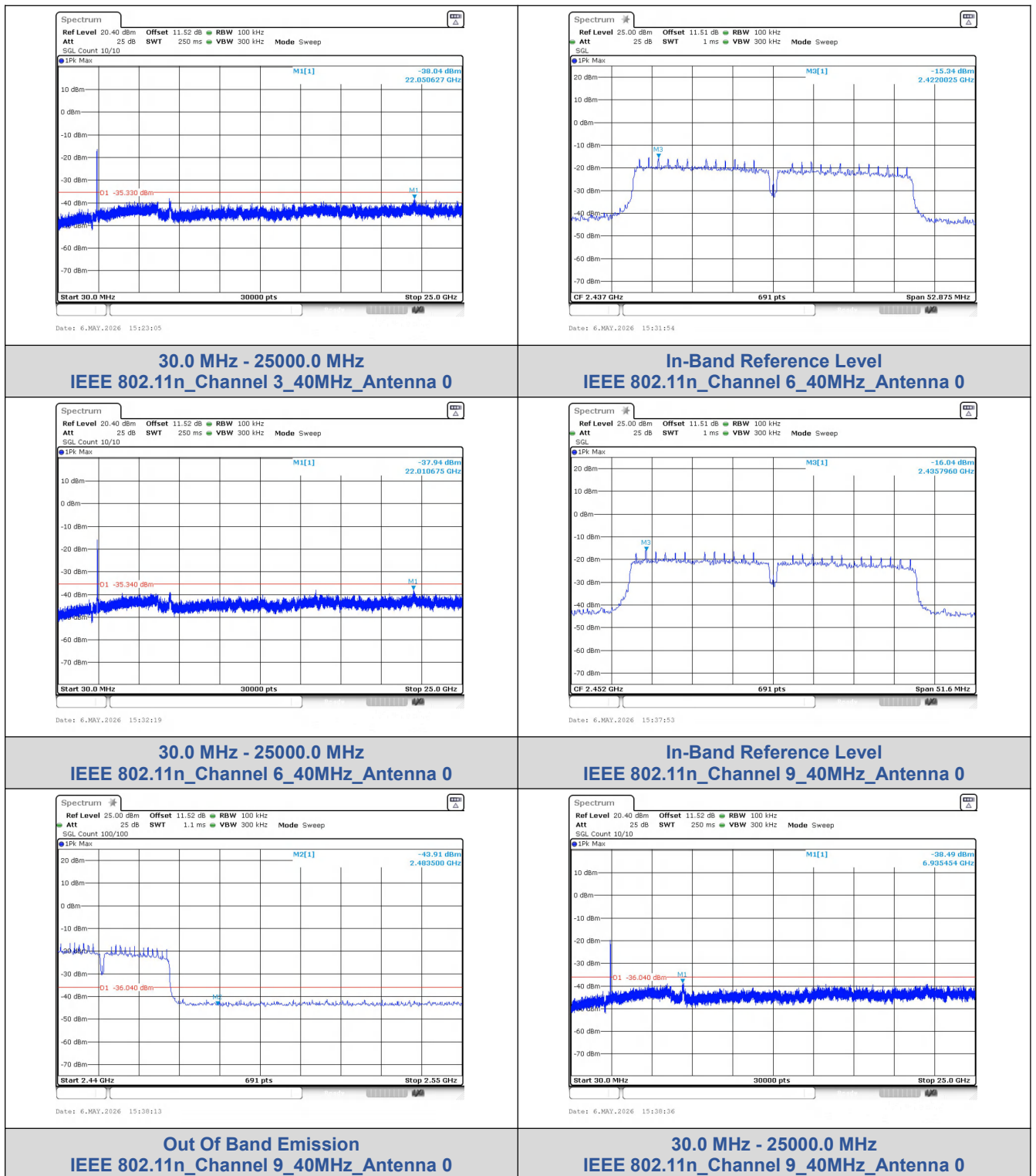
**30.0 MHz - 25000.0 MHz**  
**IEEE 802.11n\_Channel 11\_20MHz\_Antenna 0**



**In-Band Reference Level**  
**IEEE 802.11n\_Channel 3\_40MHz\_Antenna 0**



**Out Of Band Emission**  
**IEEE 802.11n\_Channel 3\_40MHz\_Antenna 0**



-----End of the report-----