

## Appendix A

|                |                  |
|----------------|------------------|
| Report No.:    | CISRR24082921501 |
| FCC ID:        | 2BE3U-X1         |
| Product Name:  | Bonding Encoder  |
| Model No.:     | X1               |
| Test Engineer: | Lucas Huang      |
| Supervised by: | Rory Huang       |

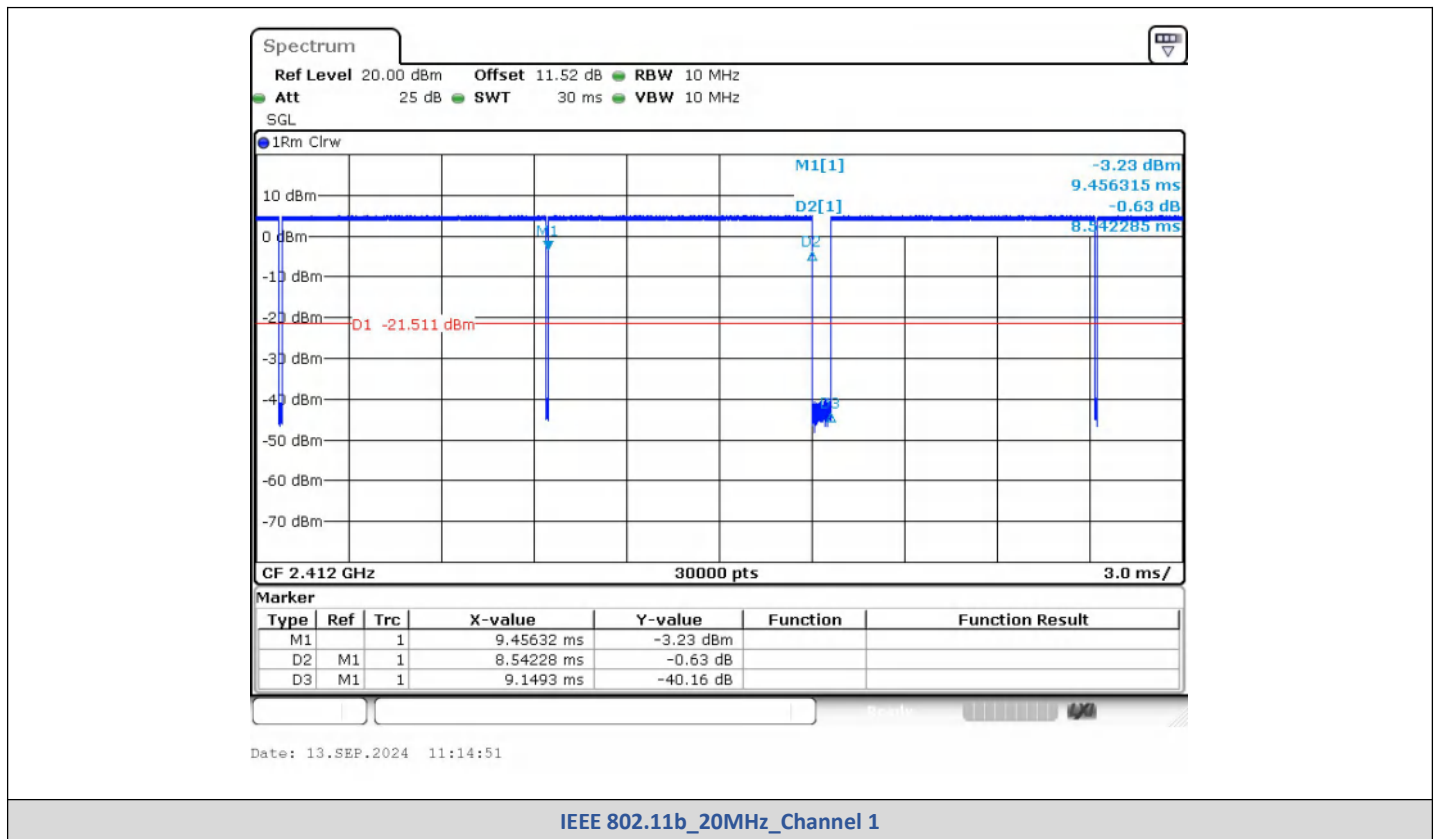
# 1) Duty Cycle

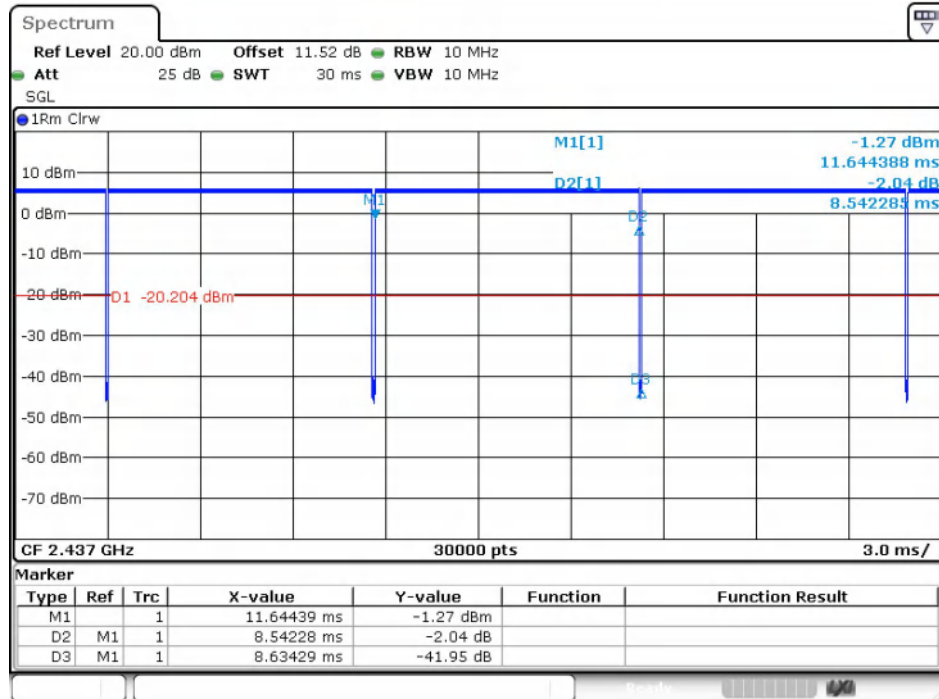
ANT1:

## Test Result

| Mode               | Data rates | Channel | Antenna | On Time<br>(ms) | Period<br>(ms) | Duty Cycle<br>(%) | Duty Cycle<br>(linear) | Duty Cycle<br>Factor (dB) | 1/T  |
|--------------------|------------|---------|---------|-----------------|----------------|-------------------|------------------------|---------------------------|------|
| IEEE<br>802.11b    | 1          | 1       | 1       | 8.542           | 9.149          | 93.37             | 0.9337                 | 0.2979                    | 0.12 |
|                    |            | 6       |         | 8.542           | 8.634          | 98.93             | 0.9893                 | 0.0467                    | 0.12 |
|                    |            | 11      |         | 8.564           | 8.655          | 98.94             | 0.9894                 | 0.0463                    | 0.12 |
| IEEE<br>802.11g    |            | 1       |         | 1.431           | 1.528          | 93.65             | 0.9365                 | 0.2849                    | 0.70 |
|                    |            | 6       |         | 1.432           | 1.528          | 93.72             | 0.9372                 | 0.2817                    | 0.70 |
|                    |            | 11      |         | 1.431           | 1.528          | 93.65             | 0.9365                 | 0.2849                    | 0.70 |
| IEEE<br>802.11n_20 | MCS 0      | 1       |         | 0.169           | 0.268          | 62.93             | 0.6293                 | 2.0114                    | 5.92 |
|                    |            | 6       |         | 0.168           | 0.268          | 62.80             | 0.6280                 | 2.0204                    | 5.95 |
|                    |            | 11      |         | 0.168           | 0.268          | 62.80             | 0.6280                 | 2.0204                    | 5.95 |

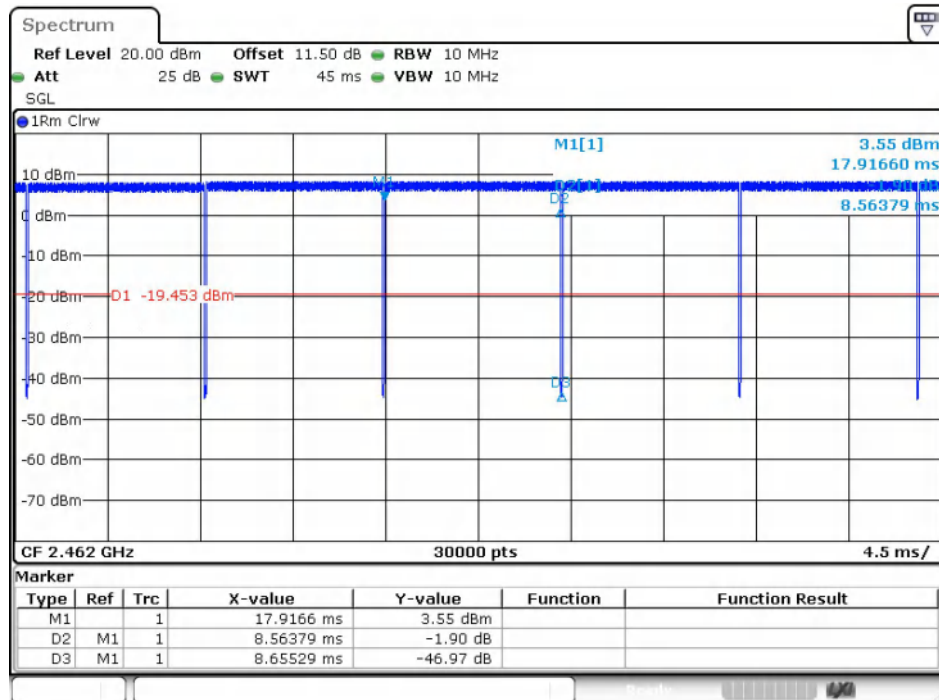
## Test Graphs





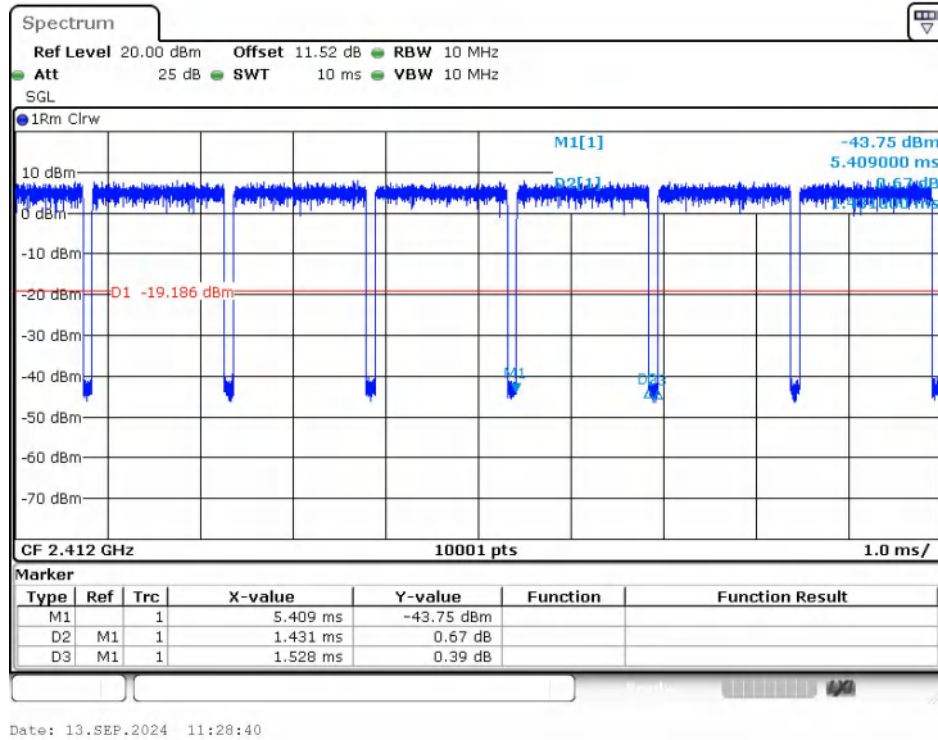
Date: 13.SEP.2024 11:20:51

IEEE 802.11b\_20MHz\_Channel 6

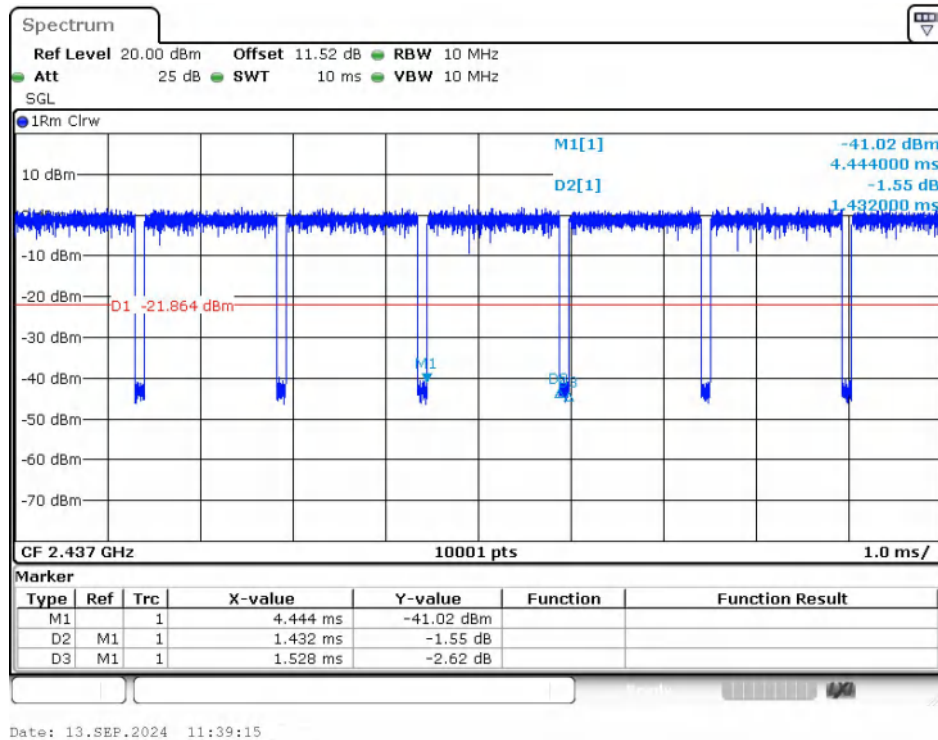


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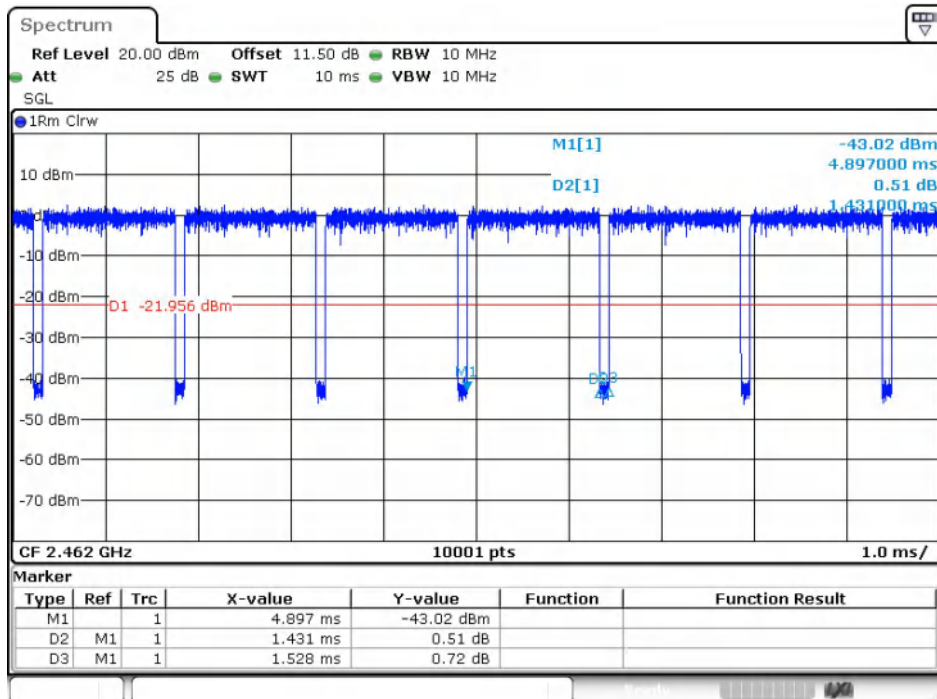
IEEE 802.11b\_20MHz\_Channel 11



IEEE 802.11g\_20MHz\_Channel 1

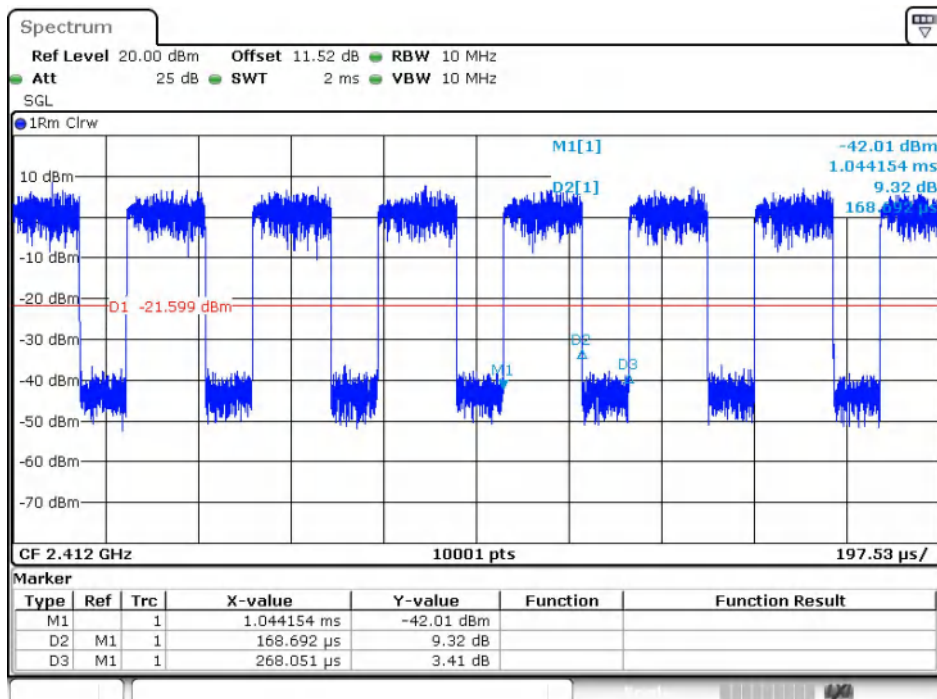


IEEE 802.11g\_20MHz\_Channel 6



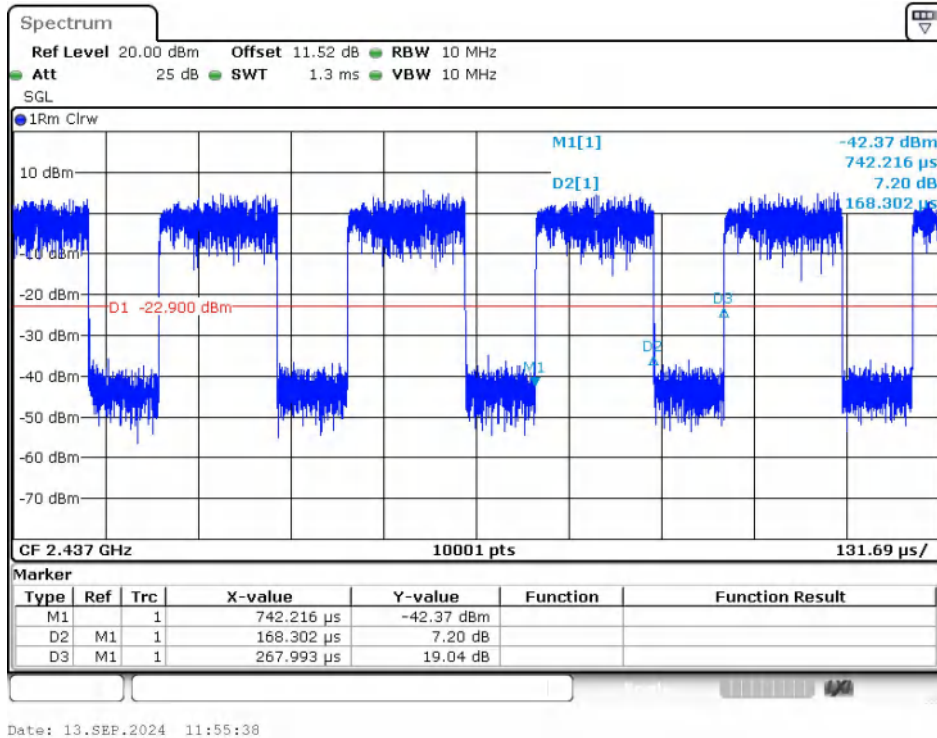
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IEEE 802.11g\_20MHz\_Channel 11

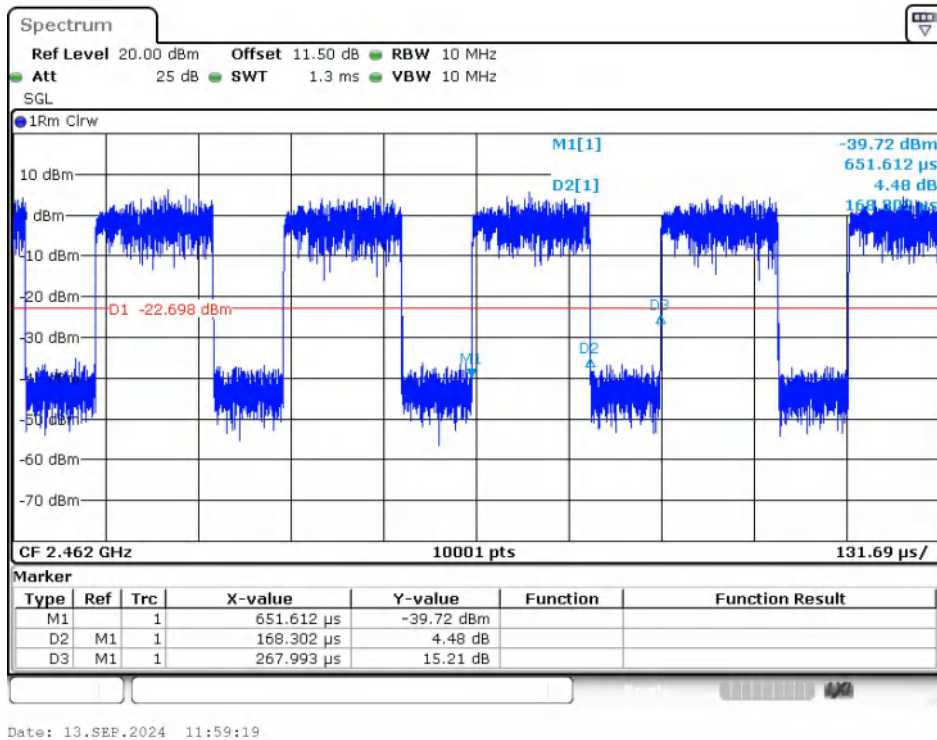


Date: 13.SEP.2024 11:50:18

IEEE 802.11n\_20MHz\_Channel 1



IEEE 802.11n\_20MHz\_Channel 6



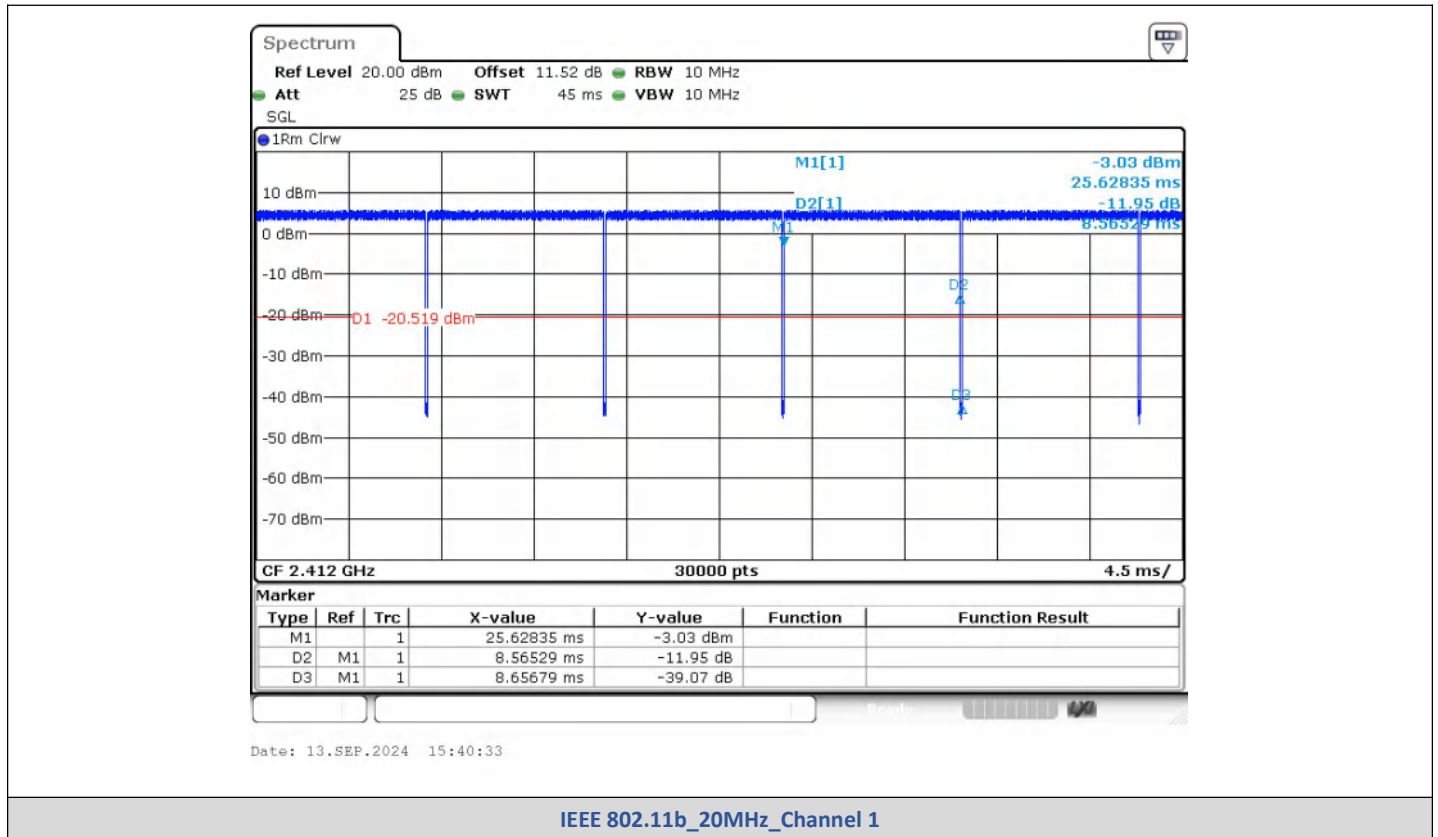
IEEE 802.11n\_20MHz\_Channel 11

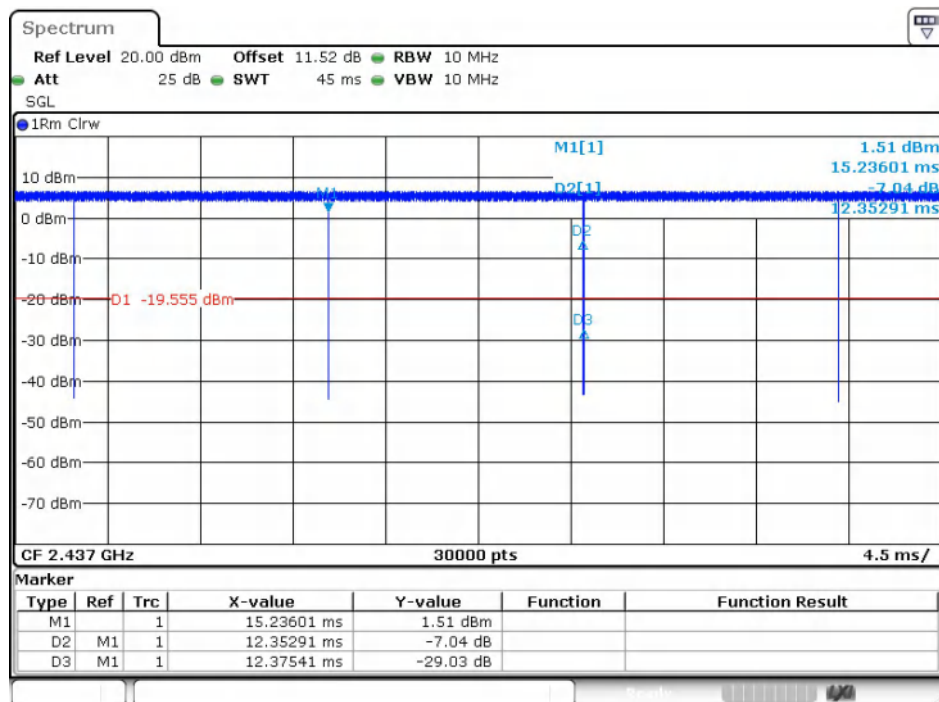
ANT2:

### Test Result

| Mode               | Data rates | Channel | Antenna | On Time<br>(ms) | Period<br>(ms) | Duty Cycle<br>(%) | Duty Cycle<br>(linear) | Duty Cycle<br>Factor (dB) | 1/T  |
|--------------------|------------|---------|---------|-----------------|----------------|-------------------|------------------------|---------------------------|------|
| IEEE<br>802.11b    | 1          | 1       | 2       | 8.565           | 8.657          | 98.94             | 0.9894                 | 0.0463                    | 0.12 |
|                    |            | 6       |         | 12.353          | 12.375         | 99.82             | 0.9982                 | 0.0078                    | 0.08 |
|                    |            | 11      |         | 12.375          | 12.396         | 99.84             | 0.9984                 | 0.007                     | 0.08 |
| IEEE<br>802.11g    |            | 1       |         | 1.431           | 1.528          | 93.65             | 0.9365                 | 0.2849                    | 0.70 |
|                    |            | 6       |         | 1.431           | 1.528          | 93.65             | 0.9365                 | 0.2849                    | 0.70 |
|                    |            | 11      |         | 1.431           | 1.528          | 93.65             | 0.9365                 | 0.2849                    | 0.70 |
| IEEE<br>802.11n_20 | MCS 0      | 1       |         | 0.168           | 0.268          | 62.83             | 0.6283                 | 2.0183                    | 5.95 |
|                    |            | 6       |         | 0.168           | 0.268          | 62.83             | 0.6283                 | 2.0183                    | 5.95 |
|                    |            | 11      |         | 0.168           | 0.268          | 62.83             | 0.6283                 | 2.0183                    | 5.95 |

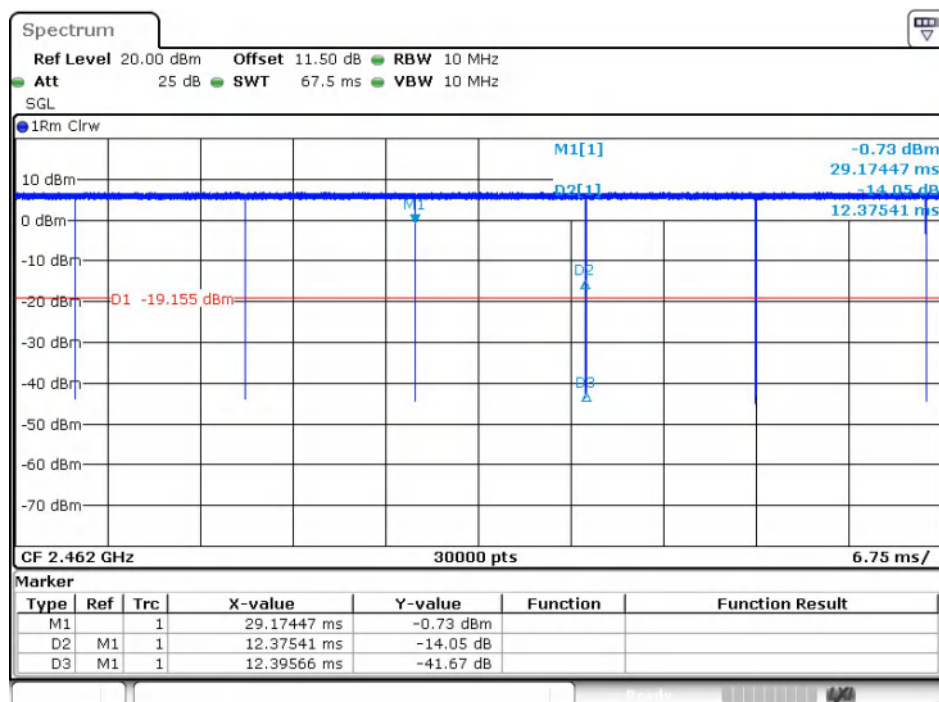
### Test Graphs





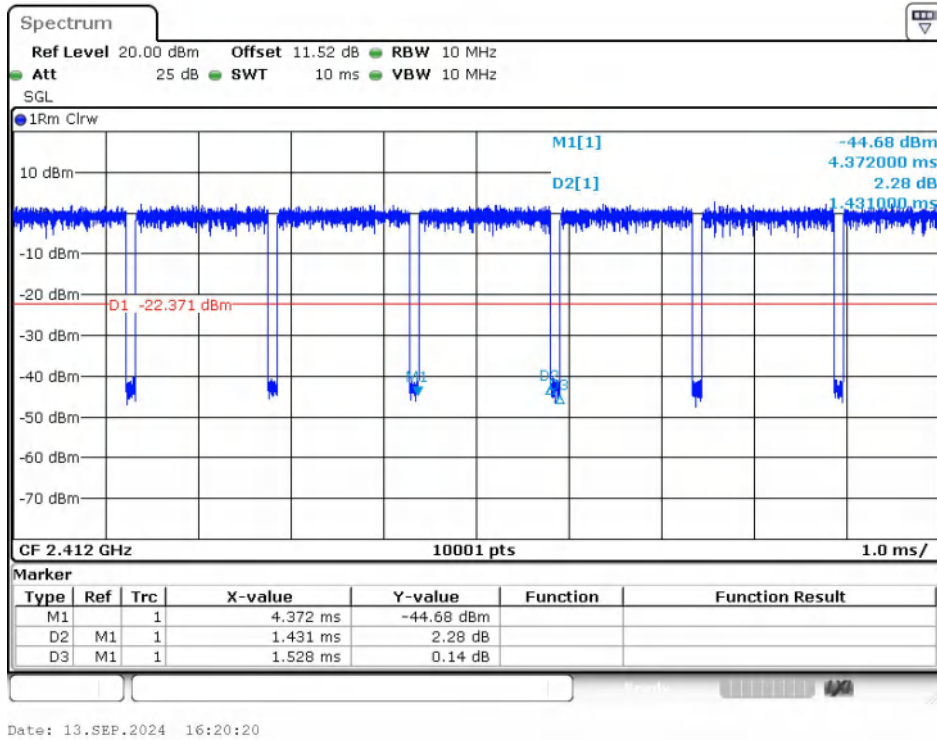
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IEEE 802.11b\_20MHz\_Channel 6

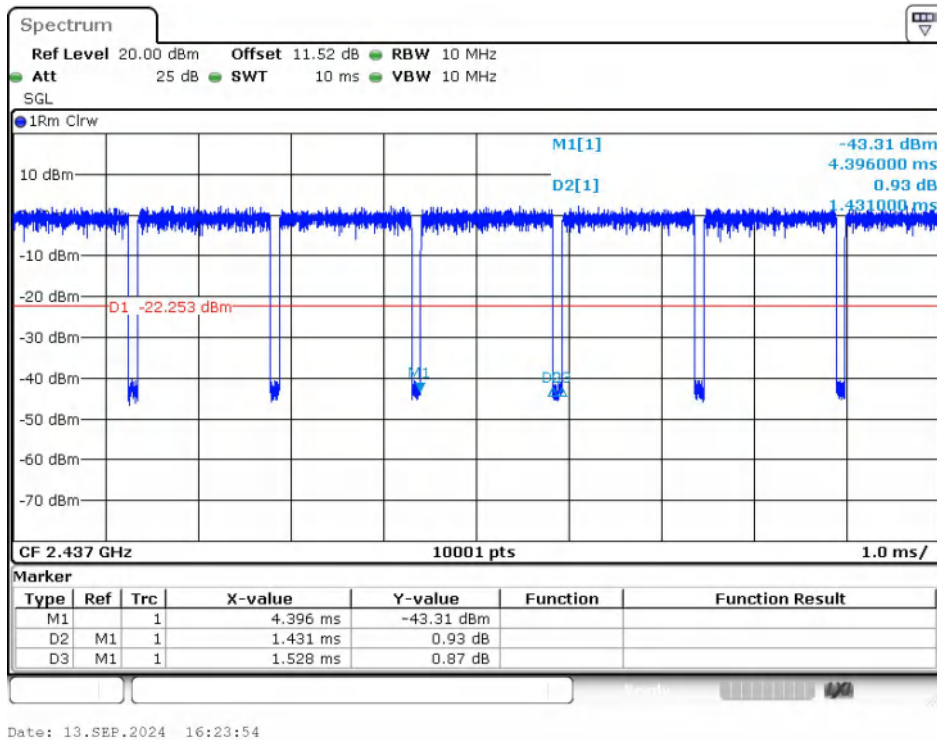


Date: 13.SEP.2024 16:16:27

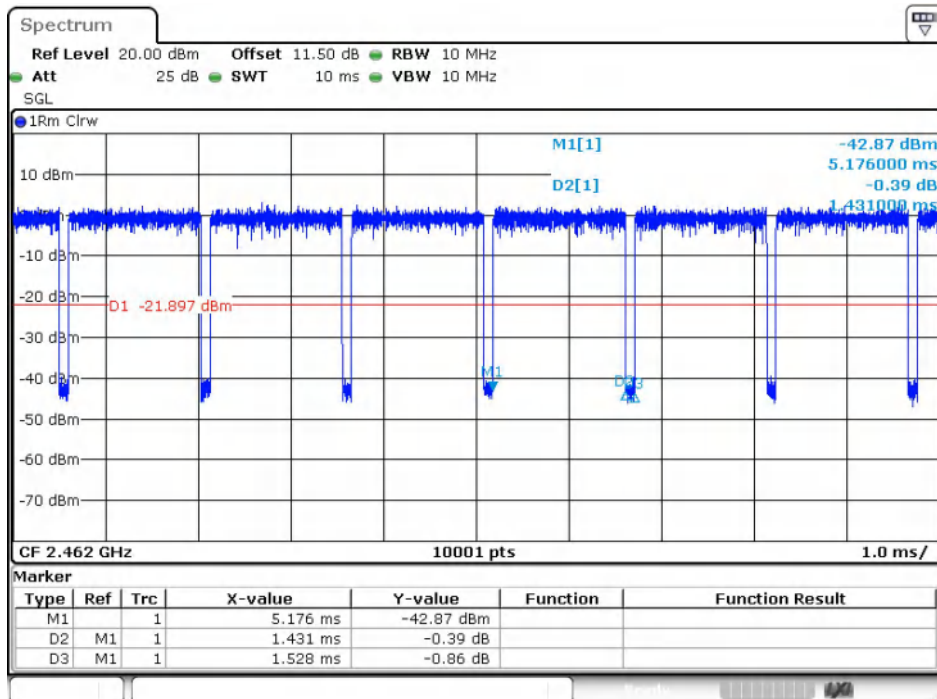
IEEE 802.11b\_20MHz\_Channel 11



IEEE 802.11g\_20MHz\_Channel 1

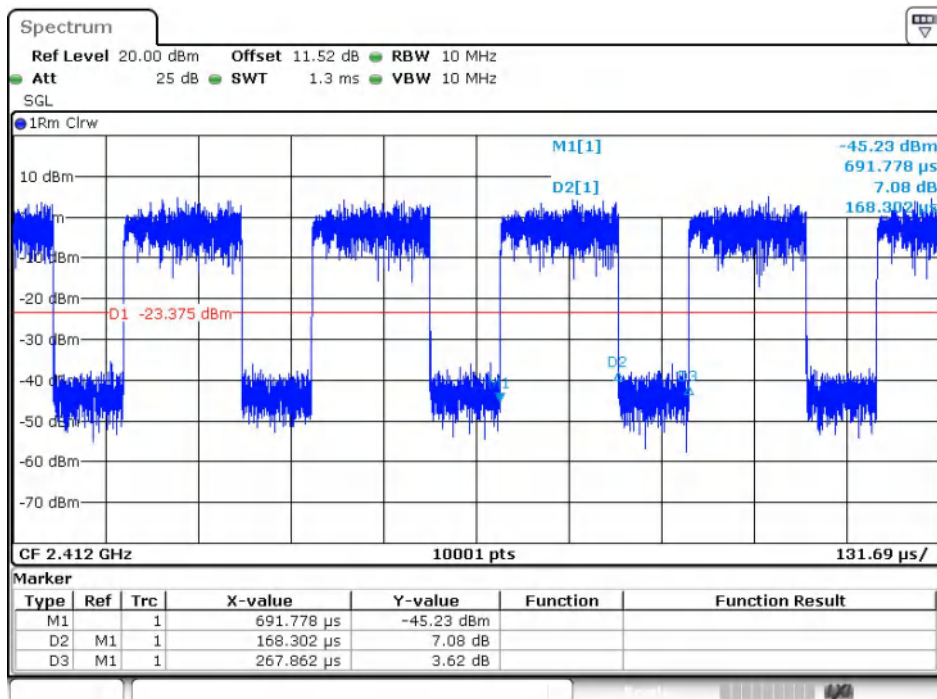


IEEE 802.11g\_20MHz\_Channel 6



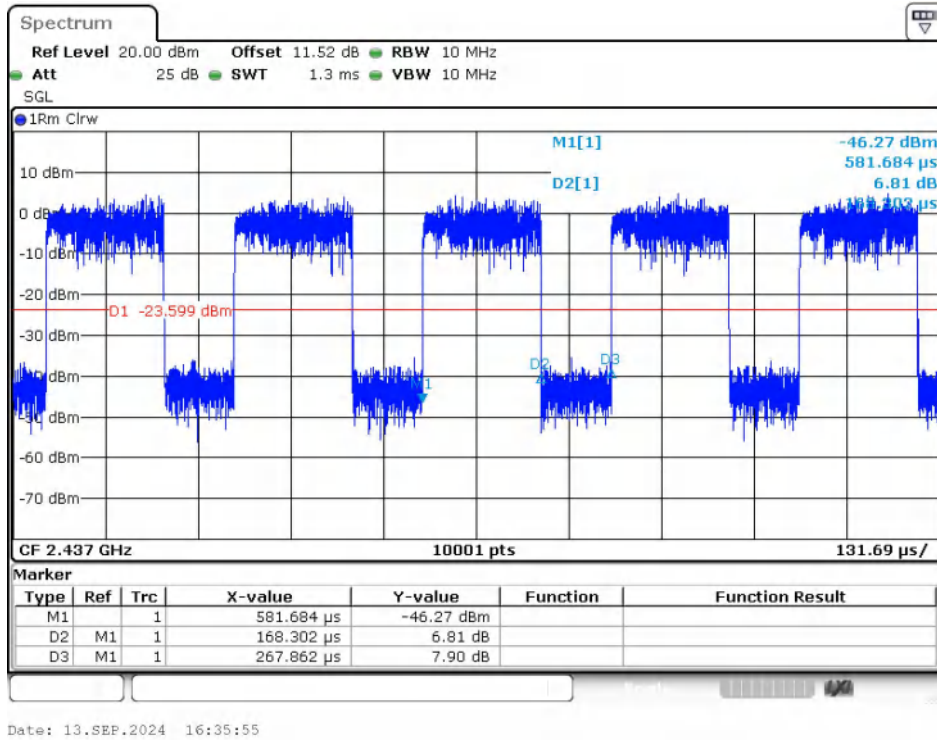
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IEEE 802.11g\_20MHz\_Channel 11

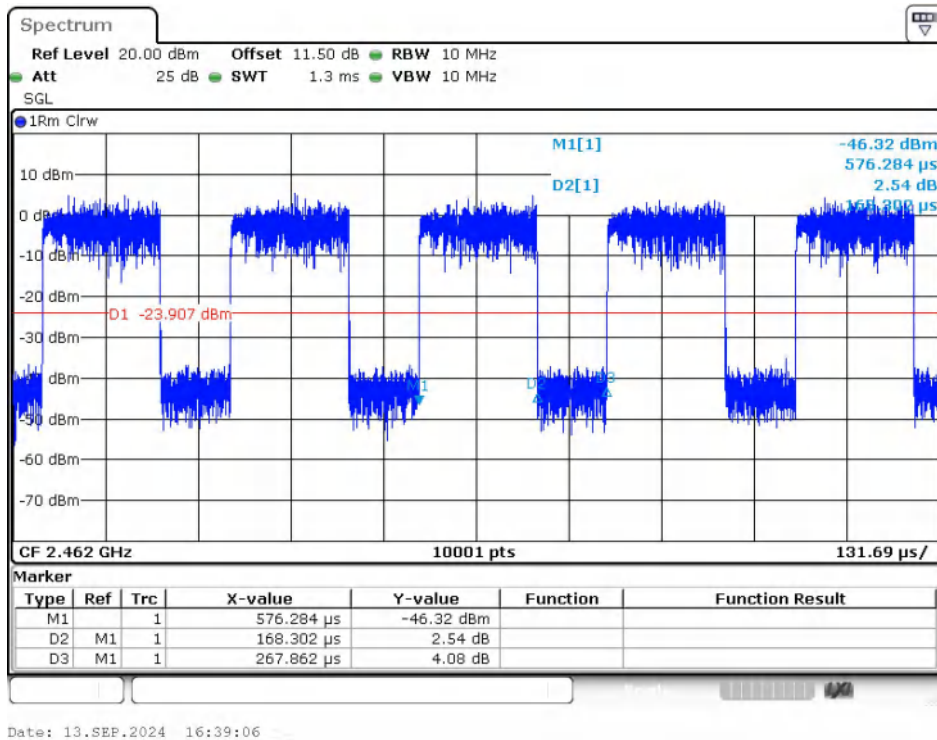


Date: 13.SEP.2024 16:32:24

IEEE 802.11n\_20MHz\_Channel 1



IEEE 802.11n\_20MHz\_Channel 6



IEEE 802.11n\_20MHz\_Channel 11

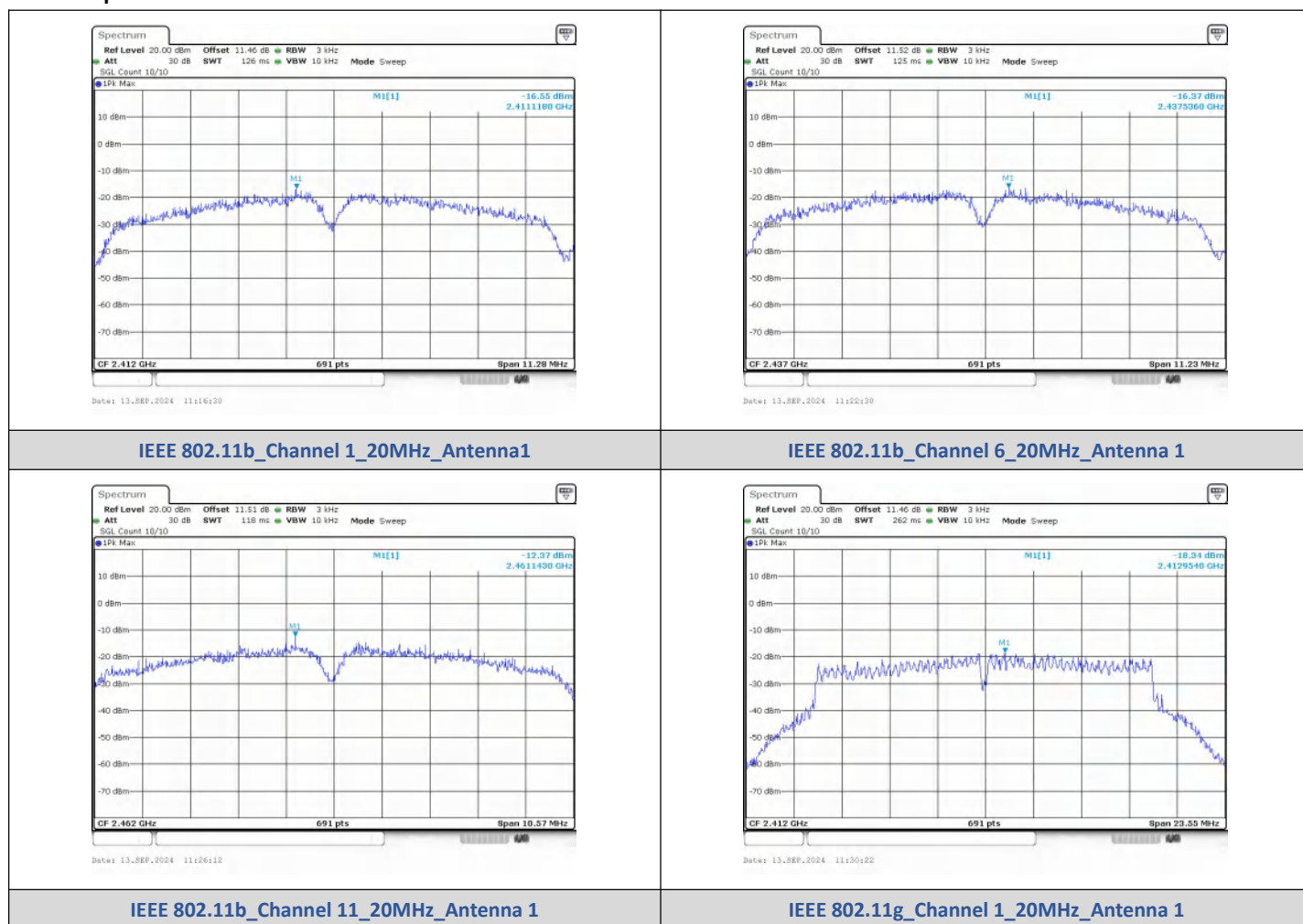
## 2) Power Spectral Density

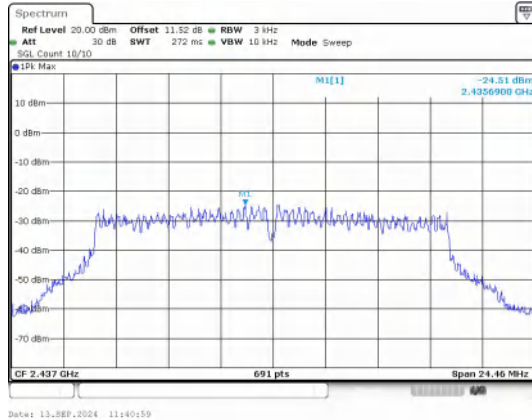
ANT1:

Test Result

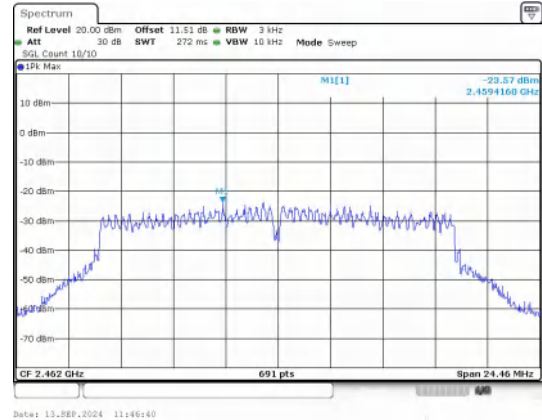
| Mode            | Channel | PSD<br>(dBm/3kHz)<br>Ant. 1 | Limit<br>(dBm/3kHz) | Result |
|-----------------|---------|-----------------------------|---------------------|--------|
| IEEE 802.11b    | 1       | -16.554                     | ≤8                  | PASS   |
|                 | 6       | -16.369                     |                     | PASS   |
|                 | 11      | -12.369                     |                     | PASS   |
| IEEE 802.11g    | 1       | -18.344                     |                     | PASS   |
|                 | 6       | -24.507                     |                     | PASS   |
|                 | 11      | -23.574                     |                     | PASS   |
| IEEE 802.11n_20 | 1       | -23.168                     |                     | PASS   |
|                 | 6       | -26.033                     |                     | PASS   |
|                 | 11      | -25.636                     |                     | PASS   |

### Test Graphs

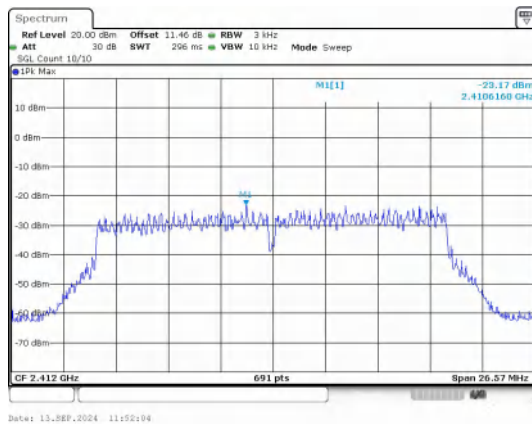




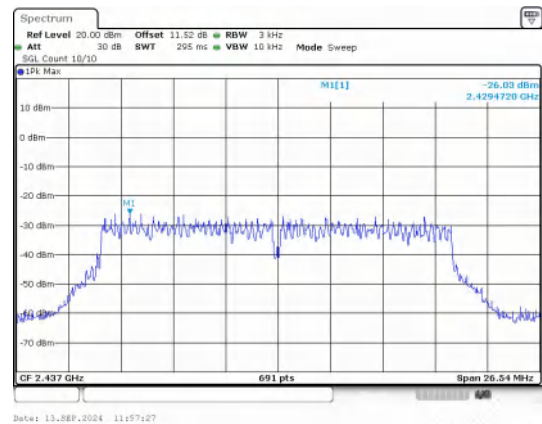
IEEE 802.11g\_Channel 6\_20MHz\_Antenna 1



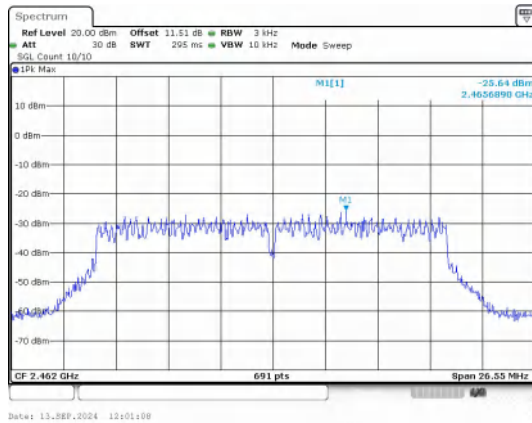
IEEE 802.11g\_Channel 11\_20MHz\_Antenna 1



IEEE 802.11n\_Channel 1\_20MHz\_Antenna 1



IEEE 802.11n\_Channel 6\_20MHz\_Antenna 1



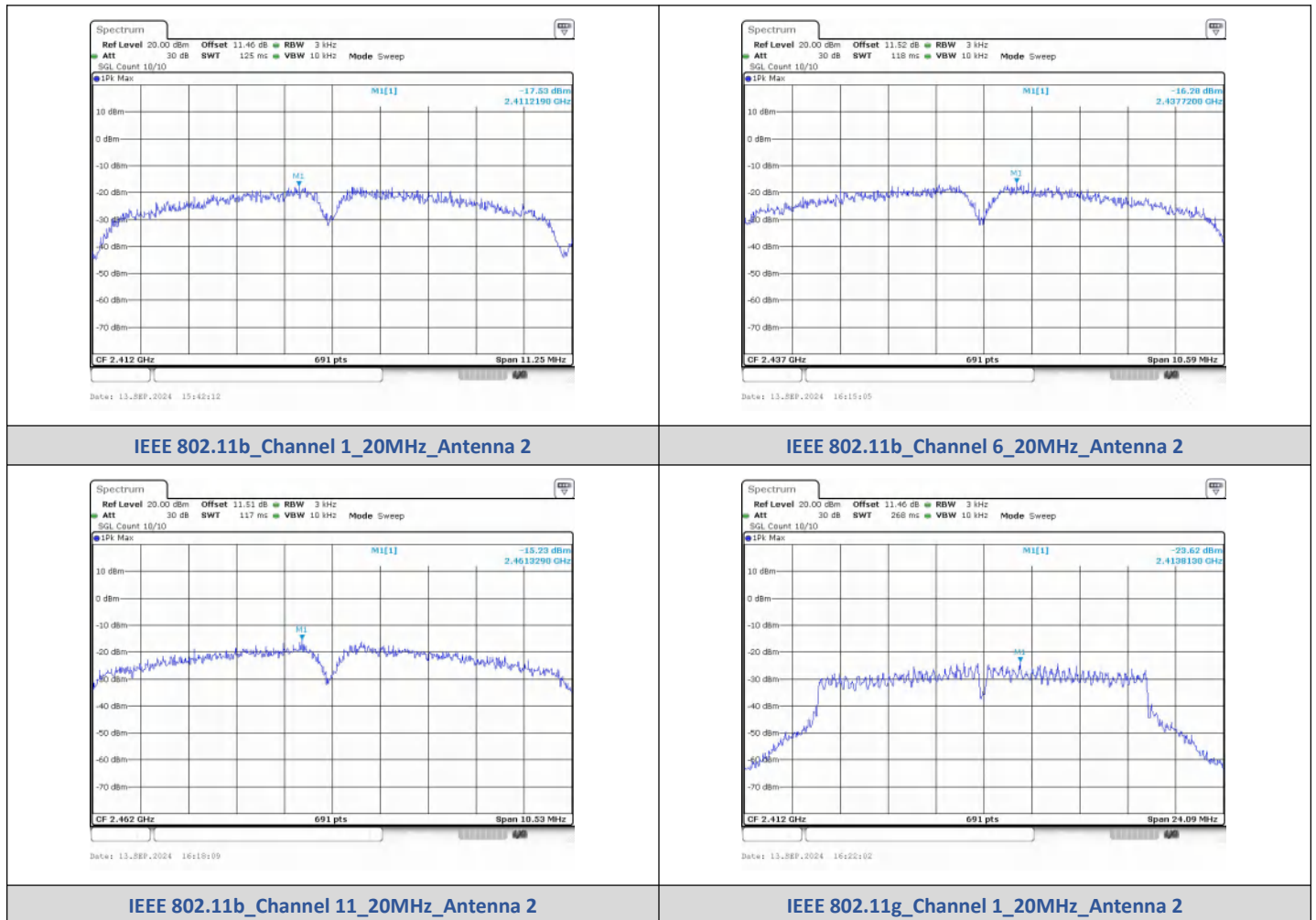
IEEE 802.11n\_Channel 11\_20MHz\_Antenna 1

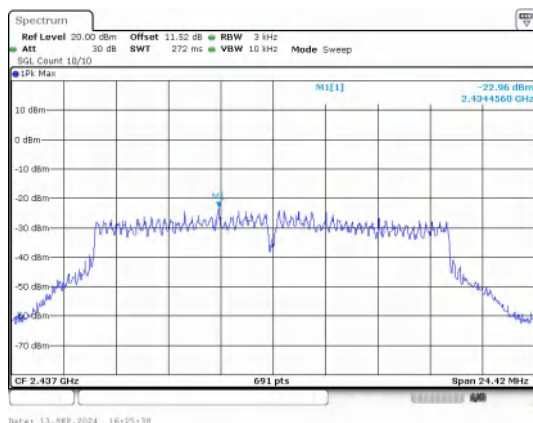
ANT2:

### Test Result

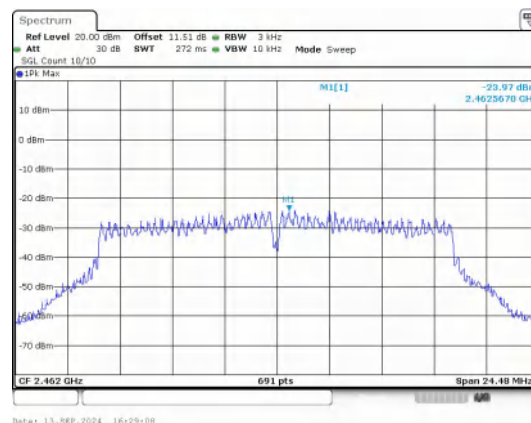
| Mode            | Channel | PSD<br>(dBm/3kHz)<br>Ant. 2 | Limit<br>(dBm/3kHz) | Result |
|-----------------|---------|-----------------------------|---------------------|--------|
| IEEE 802.11b    | 1       | -17.533                     | ≤8                  | PASS   |
|                 | 6       | -16.279                     |                     | PASS   |
|                 | 11      | -15.225                     |                     | PASS   |
| IEEE 802.11g    | 1       | -23.623                     |                     | PASS   |
|                 | 6       | -22.957                     |                     | PASS   |
|                 | 11      | -23.967                     |                     | PASS   |
| IEEE 802.11n_20 | 1       | -26.801                     |                     | PASS   |
|                 | 6       | -26.898                     |                     | PASS   |
|                 | 11      | -26.831                     |                     | PASS   |

### Test Graphs

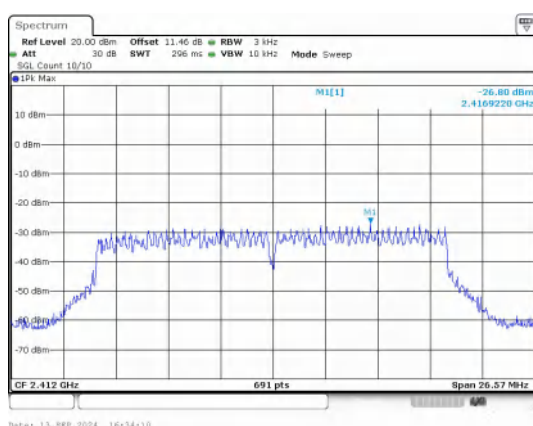




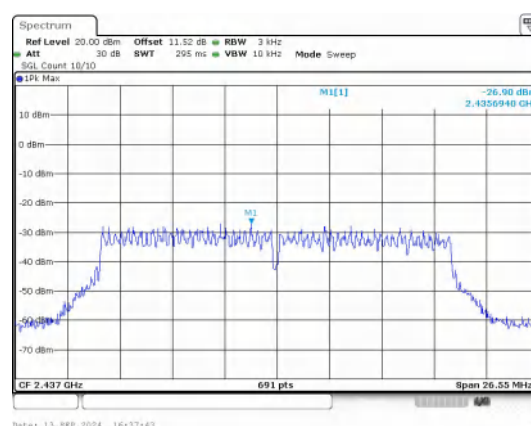
IEEE 802.11g\_Channel 6\_20MHz\_Antenna 2



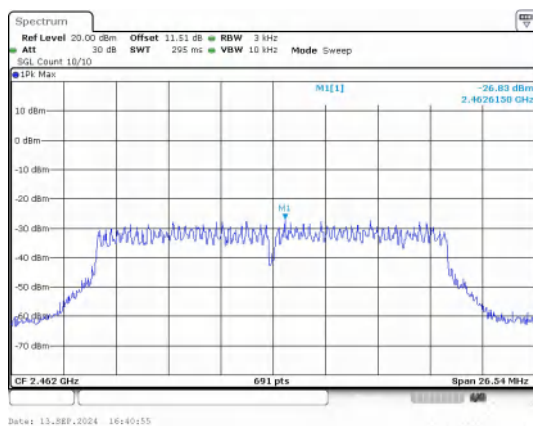
IEEE 802.11g\_Channel 11\_20MHz\_Antenna 2



IEEE 802.11n\_Channel 1\_20MHz\_Antenna 2



IEEE 802.11n\_Channel 6\_20MHz\_Antenna 2



IEEE 802.11n\_Channel 11\_20MHz\_Antenna 2

## MIMO

| Mode            | Channel | PSD<br>(dBm/3kHz)<br>Ant. 1 | PSD<br>(dBm/3kHz)<br>Ant. 2 | PSD<br>(dBm/3kHz)<br>MIMO | Limit<br>(dBm/3kHz) | Result |
|-----------------|---------|-----------------------------|-----------------------------|---------------------------|---------------------|--------|
| IEEE 802.11n_20 | 1       | -23.168                     | -26.801                     | -21.60                    | ≤8                  | PASS   |
|                 | 6       | -26.033                     | -26.898                     | -23.43                    |                     | PASS   |
|                 | 11      | -25.636                     | -26.831                     | -23.18                    |                     | PASS   |

### 3) Conducted Peak Output Power

ANT1:

#### Test Result

Conducted Output Power

| Mode            | Channel | Ant. 1<br>(dBm) | Limit<br>(dBm) | Result |
|-----------------|---------|-----------------|----------------|--------|
| IEEE 802.11b    | 1       | 7.70            | ≤30            | PASS   |
|                 | 6       | 8.69            | ≤30            | PASS   |
|                 | 11      | 8.26            | ≤30            | PASS   |
| IEEE 802.11g    | 1       | 8.74            | ≤30            | PASS   |
|                 | 6       | 8.56            | ≤30            | PASS   |
|                 | 11      | 9.00            | ≤30            | PASS   |
| IEEE 802.11n_20 | 1       | 8.91            | ≤30            | PASS   |
|                 | 6       | 7.93            | ≤30            | PASS   |
|                 | 11      | 8.79            | ≤30            | PASS   |

ANT2:

#### Test Result

Conducted Output Power

| Mode            | Channel | Ant. 2<br>(dBm) | Limit<br>(dBm) | Result |
|-----------------|---------|-----------------|----------------|--------|
| IEEE 802.11b    | 1       | 7.92            | ≤30            | PASS   |
|                 | 6       | 8.60            | ≤30            | PASS   |
|                 | 11      | 8.92            | ≤30            | PASS   |
| IEEE 802.11g    | 1       | 8.94            | ≤30            | PASS   |
|                 | 6       | 8.96            | ≤30            | PASS   |
|                 | 11      | 8.93            | ≤30            | PASS   |
| IEEE 802.11n_20 | 1       | 8.29            | ≤30            | PASS   |
|                 | 6       | 8.21            | ≤30            | PASS   |
|                 | 11      | 8.19            | ≤30            | PASS   |

MIMO

| Mode            | Channel | Ant. 1<br>(dBm) | Ant. 2<br>(dBm) | MIMO<br>(dBm) | Limit<br>(dBm) | Result |
|-----------------|---------|-----------------|-----------------|---------------|----------------|--------|
| IEEE 802.11n_20 | 1       | 8.91            | 8.29            | 11.62         | ≤30            | PASS   |
|                 | 6       | 7.93            | 8.21            | 11.08         | ≤30            | PASS   |
|                 | 11      | 8.79            | 8.19            | 11.51         | ≤30            | PASS   |

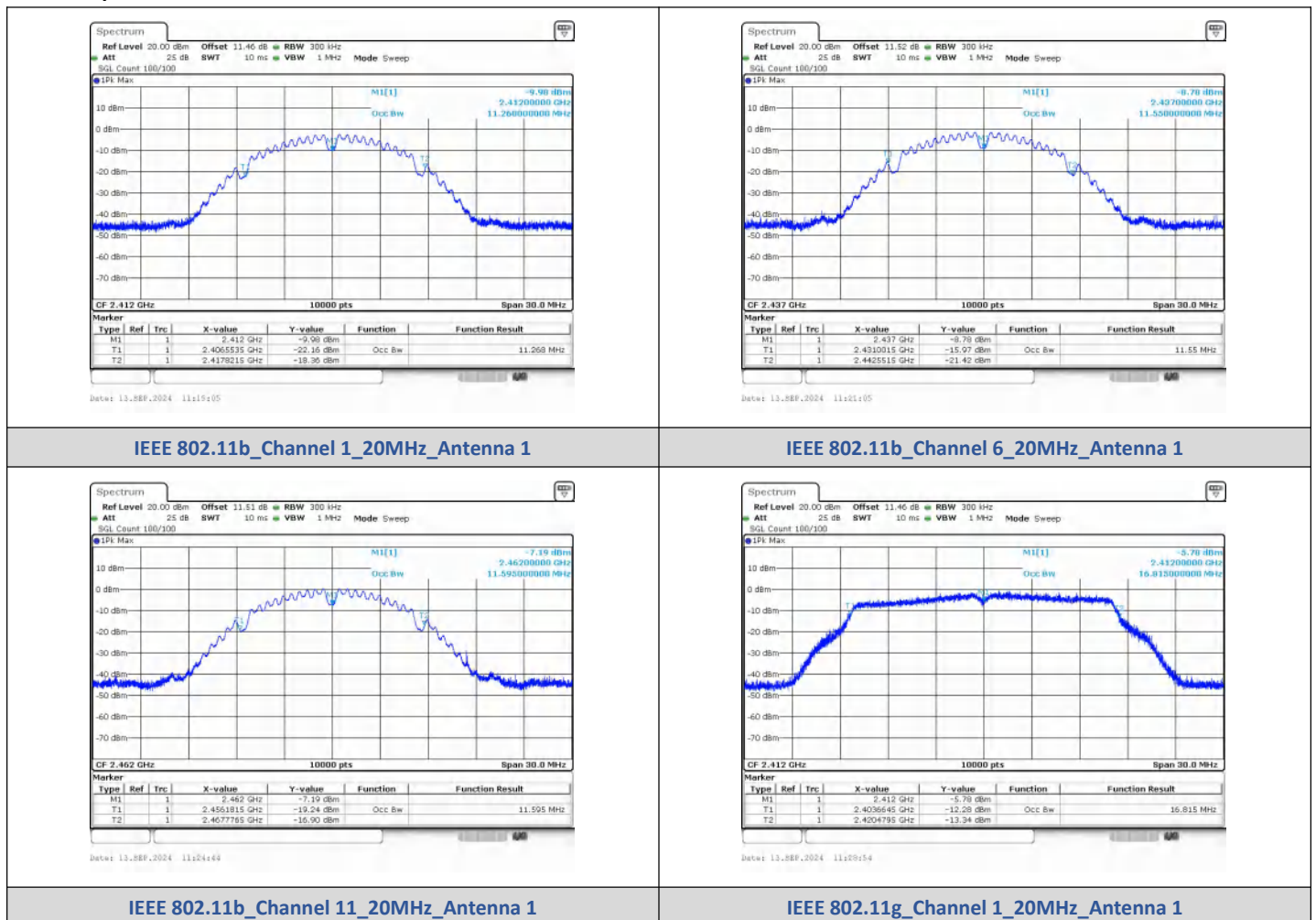
## 4) 99% Bandwidth

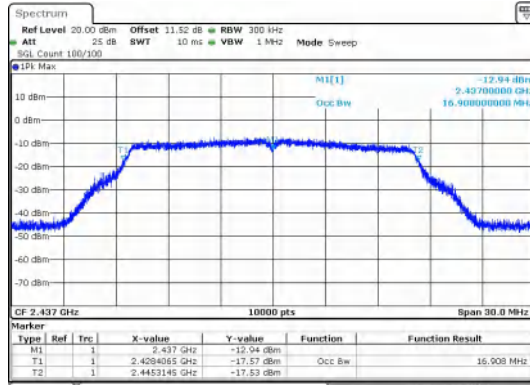
ANT1:

### Test Result

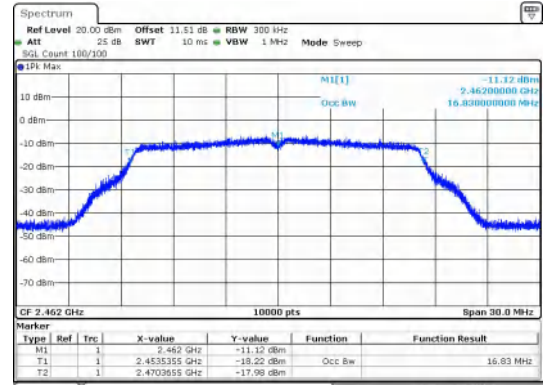
| Mode            | Channel | Ant. | Center Frequency (MHz) | 99% BW (MHz) |
|-----------------|---------|------|------------------------|--------------|
| IEEE 802.11b    | 1       | 1    | 2412                   | 11.268       |
|                 | 6       |      | 2437                   | 11.550       |
|                 | 11      |      | 2462                   | 11.595       |
| IEEE 802.11g    | 1       |      | 2412                   | 16.815       |
|                 | 6       |      | 2437                   | 16.908       |
|                 | 11      |      | 2462                   | 16.830       |
| IEEE 802.11n_20 | 1       |      | 2412                   | 17.910       |
|                 | 6       |      | 2437                   | 17.985       |
|                 | 11      |      | 2462                   | 17.916       |

### Test Graphs

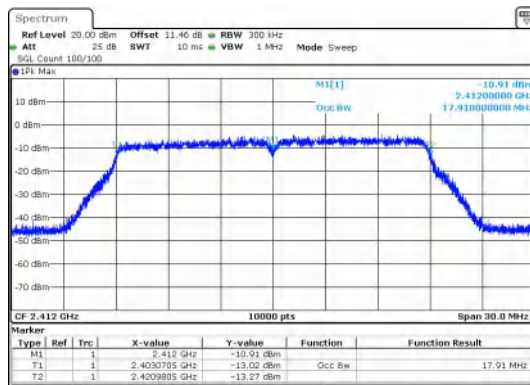




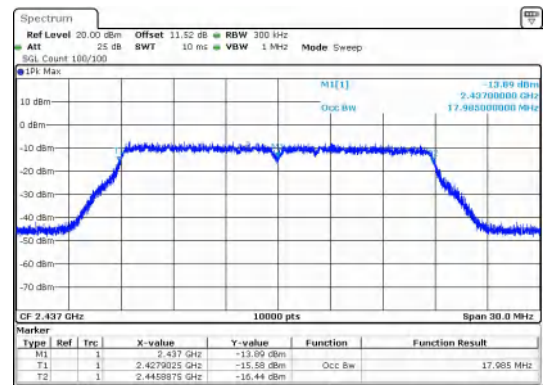
IEEE 802.11g\_Channel 6\_20MHz\_Antenna 1



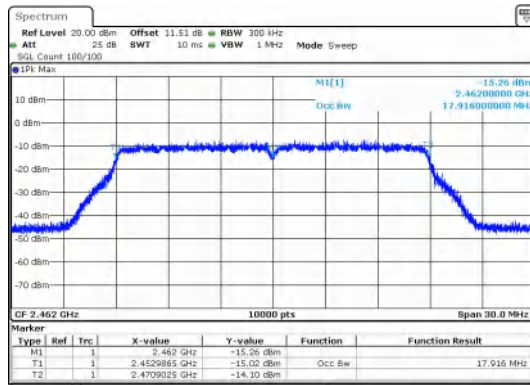
IEEE 802.11g\_Channel 11\_20MHz\_Antenna 1



IEEE 802.11n\_Channel 1\_20MHz\_Antenna 1



IEEE 802.11n\_Channel 6\_20MHz\_Antenna 1



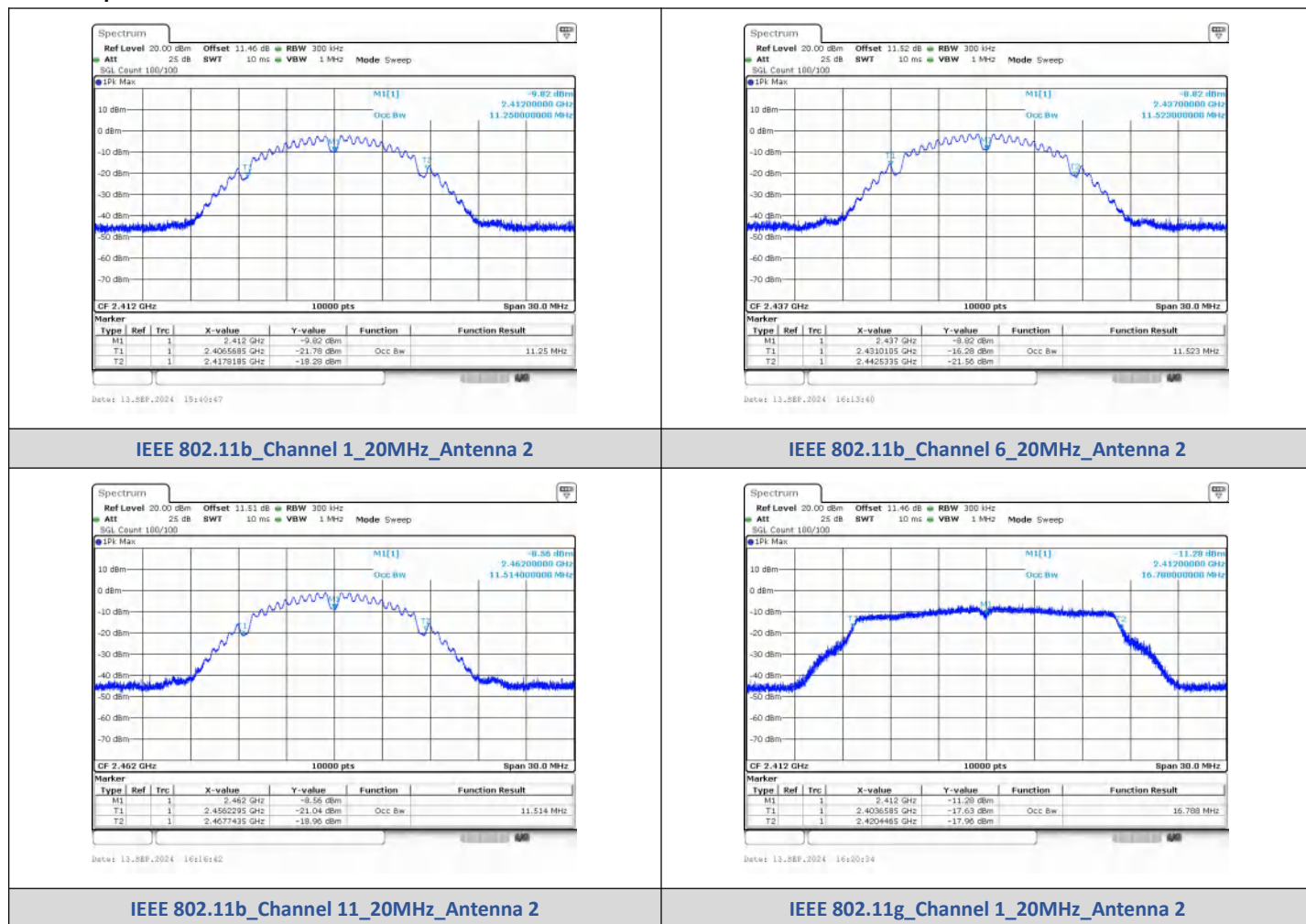
IEEE 802.11n\_Channel 11\_20MHz\_Antenna 1

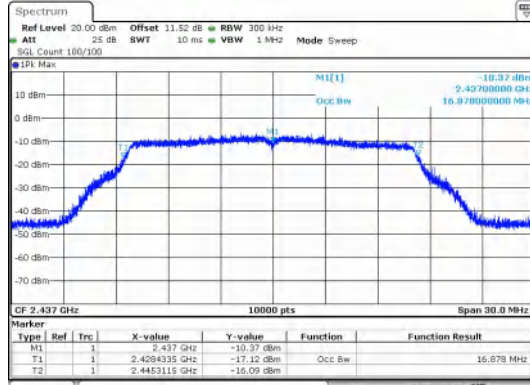
# ANT2:

## Test Result

| Mode            | Channel | Ant. | Center Frequency (MHz) | 99% BW (MHz) |
|-----------------|---------|------|------------------------|--------------|
| IEEE 802.11b    | 1       | 2    | 2412                   | 11.250       |
|                 | 6       |      | 2437                   | 11.523       |
|                 | 11      |      | 2462                   | 11.514       |
| IEEE 802.11g    | 1       |      | 2412                   | 16.788       |
|                 | 6       |      | 2437                   | 16.879       |
|                 | 11      |      | 2462                   | 16.818       |
| IEEE 802.11n_20 | 1       |      | 2412                   | 17.904       |
|                 | 6       |      | 2437                   | 17.985       |
|                 | 11      |      | 2462                   | 17.940       |

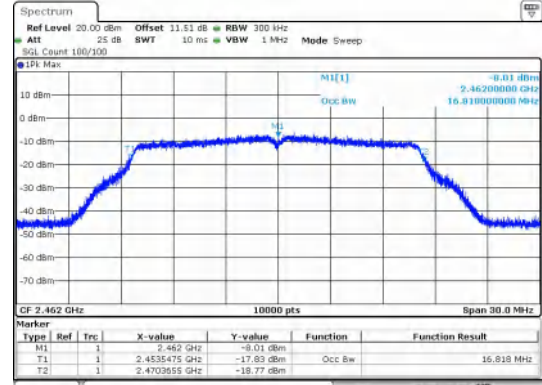
## Test Graphs





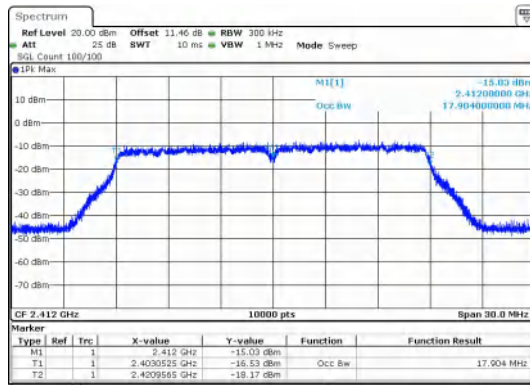
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IEEE 802.11g\_Channel 6\_20MHz\_Antenna 2



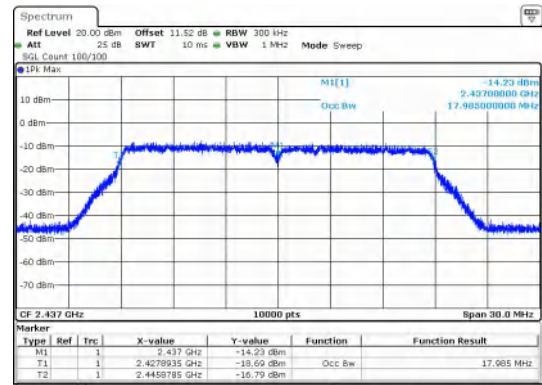
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IEEE 802.11g\_Channel 11\_20MHz\_Antenna 2



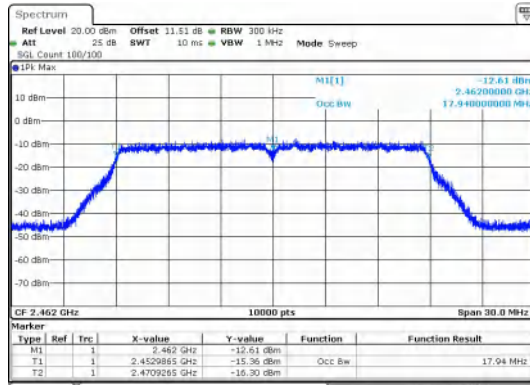
Date: 13.SEP.2024 16:32:42

IEEE 802.11n\_Channel 1\_20MHz\_Antenna 2



Date: 13.SEP.2024 16:32:13

IEEE 802.11n\_Channel 6\_20MHz\_Antenna 2



Date: 13.SEP.2024 16:29:24

IEEE 802.11n\_Channel 11\_20MHz\_Antenna 2

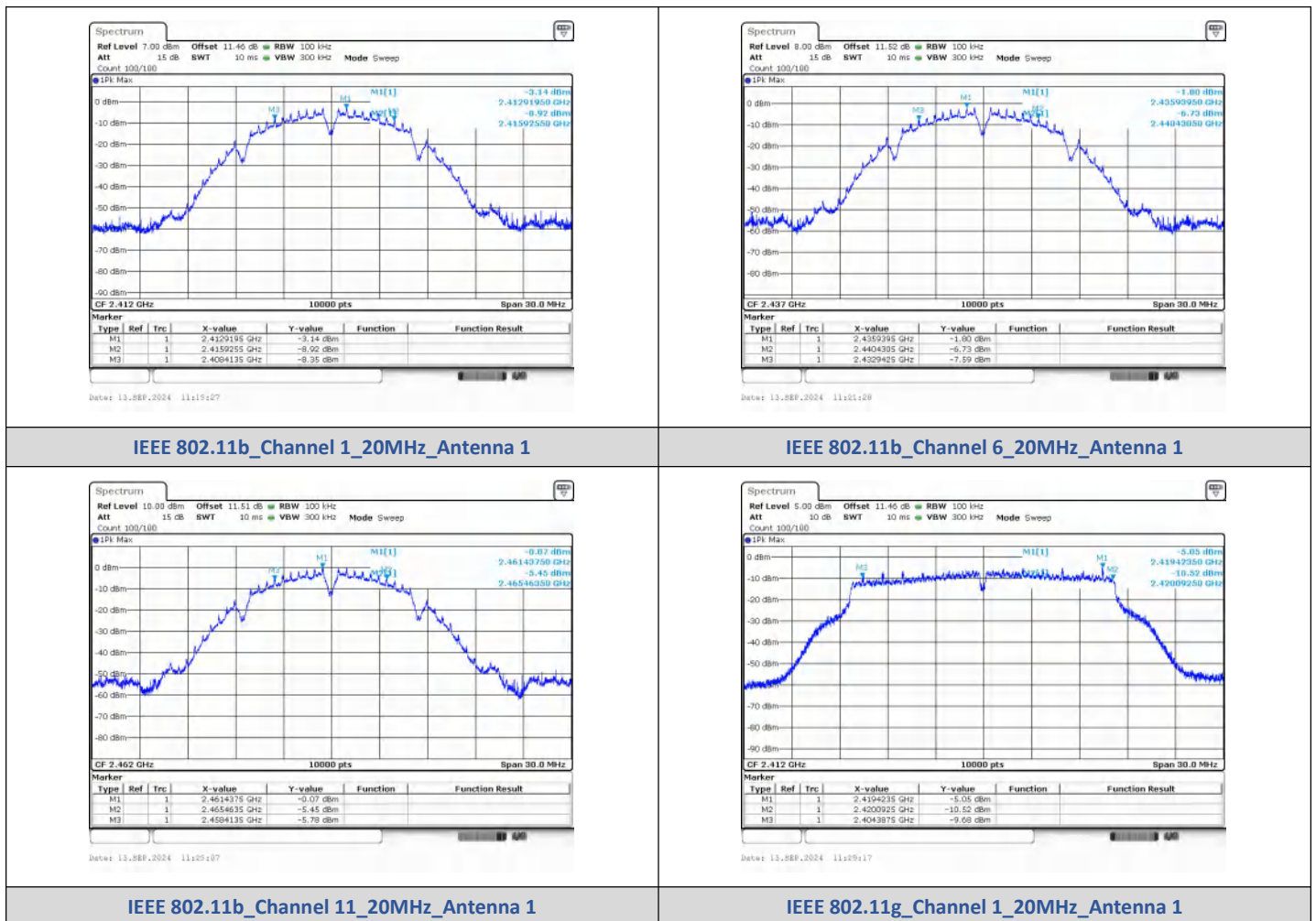
## 5) 6dB Bandwidth

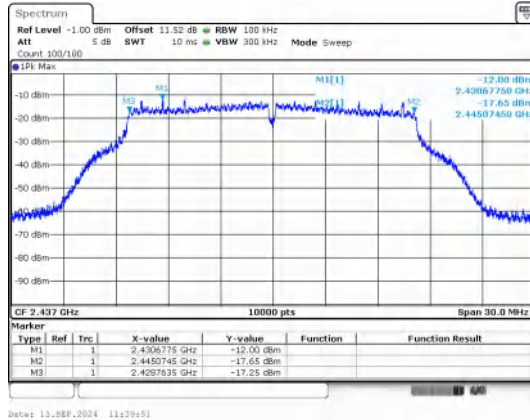
ANT1:

### Test Result

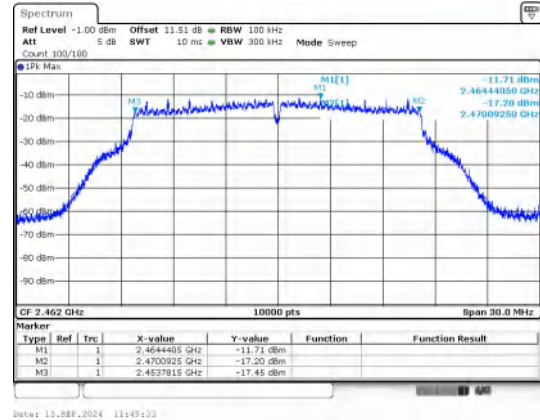
| Mode            | Channel | Ant. | Center Frequency (MHz) | 6 dB Bandwidth (MHz) | Limit (MHz) | Result |
|-----------------|---------|------|------------------------|----------------------|-------------|--------|
| IEEE 802.11b    | 1       | 1    | 2412                   | 7.520                | ≥0.5        | PASS   |
|                 | 6       |      | 2437                   | 7.490                |             | PASS   |
|                 | 11      |      | 2462                   | 7.050                |             | PASS   |
| IEEE 802.11g    | 1       |      | 2412                   | 15.70                |             | PASS   |
|                 | 6       |      | 2437                   | 16.31                |             | PASS   |
|                 | 11      |      | 2462                   | 16.31                |             | PASS   |
| IEEE 802.11n_20 | 1       |      | 2412                   | 17.71                |             | PASS   |
|                 | 6       |      | 2437                   | 17.69                |             | PASS   |
|                 | 11      |      | 2462                   | 17.70                |             | PASS   |

### Test Graphs

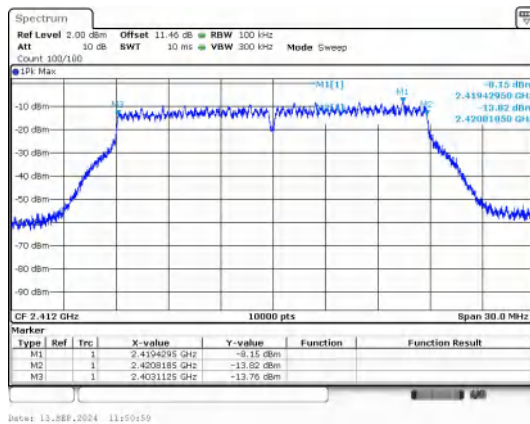




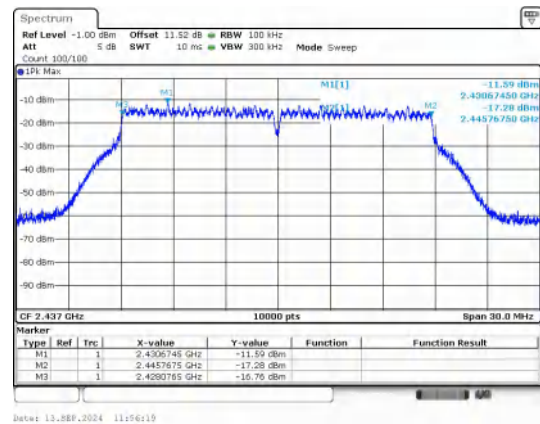
IEEE 802.11g\_Channel 6\_20MHz\_Antenna 1



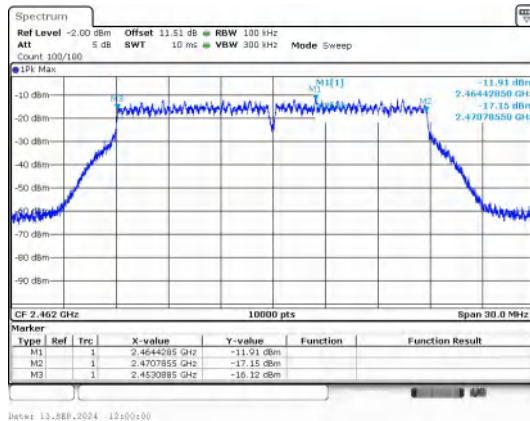
IEEE 802.11g\_Channel 11\_20MHz\_Antenna 1



IEEE 802.11n\_Channel 1\_20MHz\_Antenna 1



IEEE 802.11n\_Channel 6\_20MHz\_Antenna 1



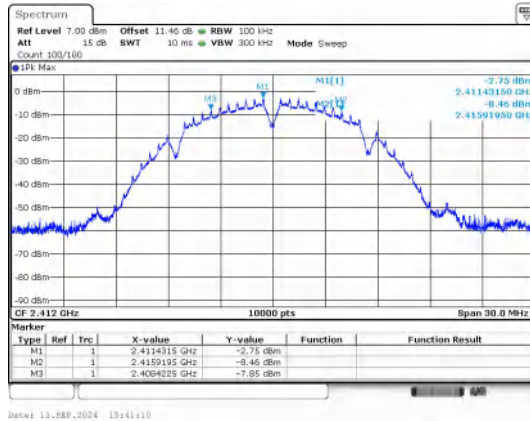
IEEE 802.11n\_Channel 11\_20MHz\_Antenna 1

ANT2:

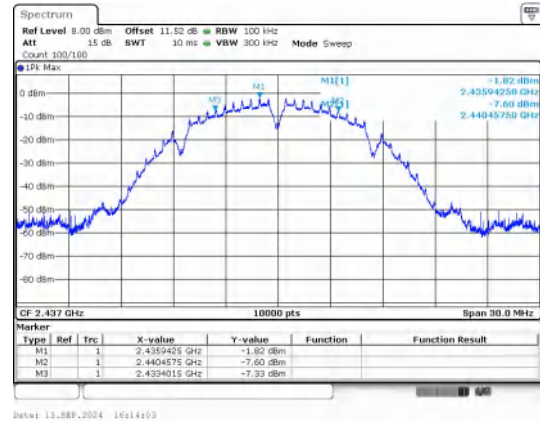
### Test Result

| Mode            | Channel | Ant. | Center Frequency (MHz) | 6 dB Bandwidth (MHz) | Limit (MHz) | Result |
|-----------------|---------|------|------------------------|----------------------|-------------|--------|
| IEEE 802.11b    | 1       | 2    | 2412                   | 7.500                | ≥0.5        | PASS   |
|                 | 6       |      | 2437                   | 7.060                |             | PASS   |
|                 | 11      |      | 2462                   | 7.020                |             | PASS   |
| IEEE 802.11g    | 1       |      | 2412                   | 16.06                |             | PASS   |
|                 | 6       |      | 2437                   | 16.28                |             | PASS   |
|                 | 11      |      | 2462                   | 16.32                |             | PASS   |
| IEEE 802.11n_20 | 1       |      | 2412                   | 17.71                |             | PASS   |
|                 | 6       |      | 2437                   | 17.70                |             | PASS   |
|                 | 11      |      | 2462                   | 17.69                |             | PASS   |

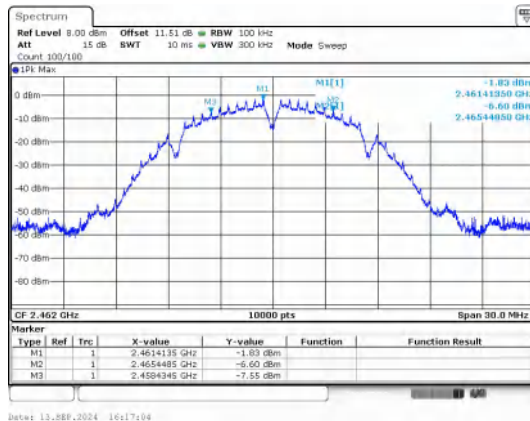
### Test Graphs



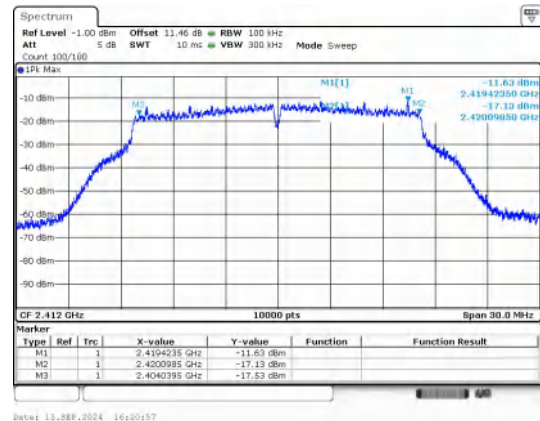
IEEE 802.11b\_Channel 1\_20MHz\_Antenna 2



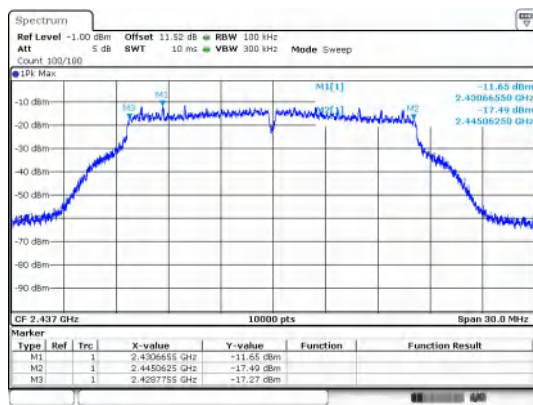
IEEE 802.11b\_Channel 6\_20MHz\_Antenna 2



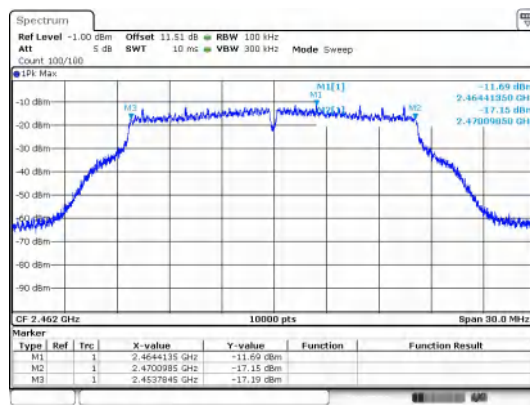
IEEE 802.11b\_Channel 11\_20MHz\_Antenna 2



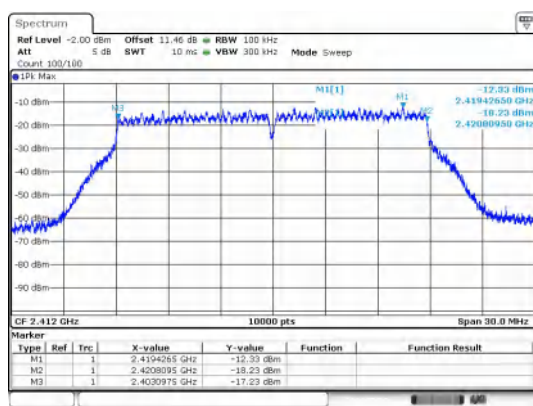
IEEE 802.11g\_Channel 1\_20MHz\_Antenna 2



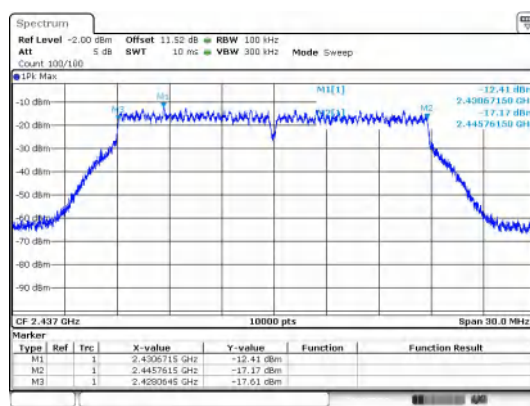
IEEE 802.11g\_Channel 6\_20MHz\_Antenna 2



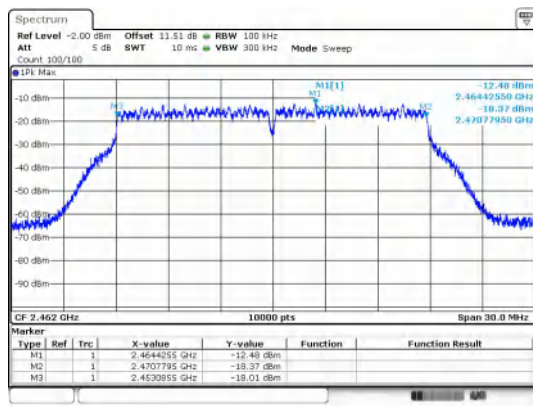
IEEE 802.11g\_Channel 11\_20MHz\_Antenna 2



IEEE 802.11n\_Channel 1\_20MHz\_Antenna 2



IEEE 802.11n\_Channel 6\_20MHz\_Antenna 2



IEEE 802.11n\_Channel 11\_20MHz\_Antenna 2

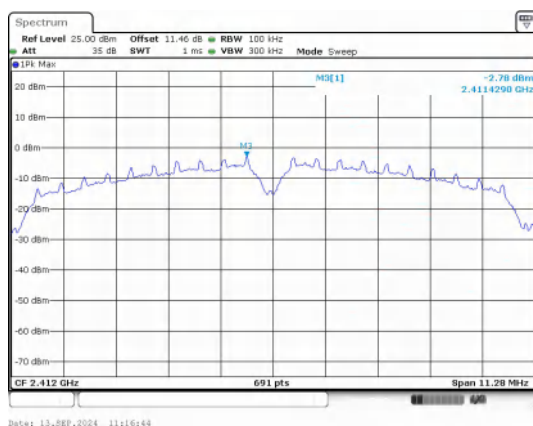
## 6) Conducted Out Of Band Emission

ANT1:

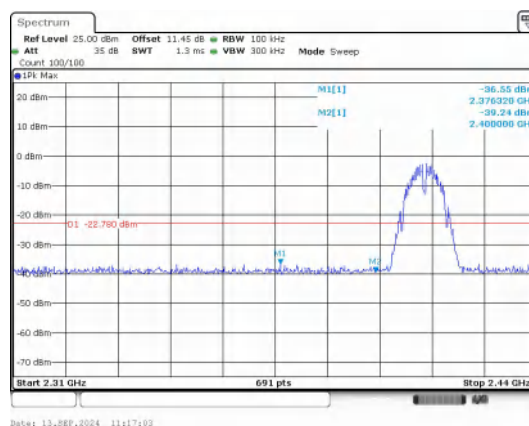
### Test Result

| Mode               | Channel | Ant. | OOB Emission<br>Frequency<br>(MHz) | OOB Emission<br>Level<br>(dBm) | Limit<br>(dBm) | Over Limit<br>(dB) | Result |
|--------------------|---------|------|------------------------------------|--------------------------------|----------------|--------------------|--------|
| IEEE 802.11b       | 1       | 1    | 2376.32                            | -36.548                        | -22.78         | -13.768            | PASS   |
|                    |         |      | 2400.00                            | -39.239                        | -22.78         | -16.459            | PASS   |
|                    |         |      | 6893.80                            | -43.438                        | -22.78         | -20.658            | PASS   |
|                    | 6       |      | 6974.57                            | -43.302                        | -21.78         | -21.522            | PASS   |
|                    | 11      |      | 2483.50                            | -38.321                        | -20.08         | -18.241            | PASS   |
|                    |         |      | 6942.11                            | -42.619                        | -20.08         | -22.539            | PASS   |
| IEEE 802.11g       | 1       |      | 2398.14                            | -36.225                        | -31.21         | -5.015             | PASS   |
|                    |         |      | 2400.00                            | -39.779                        | -31.21         | -8.569             | PASS   |
|                    |         |      | 6893.80                            | -42.650                        | -31.21         | -11.440            | PASS   |
|                    | 6       |      | 6929.63                            | -43.481                        | -31.21         | -12.271            | PASS   |
|                    | 11      |      | 2483.50                            | -38.737                        | -31.15         | -7.587             | PASS   |
|                    |         |      | 6782.30                            | -43.585                        | -31.15         | -12.435            | PASS   |
| IEEE<br>802.11n_20 | 1       |      | 2388.55                            | -36.664                        | -28.08         | -8.584             | PASS   |
|                    |         |      | 2400.00                            | -38.515                        | -28.08         | -10.435            | PASS   |
|                    |         |      | 14551.3                            | -42.859                        | -28.08         | -14.779            | PASS   |
|                    | 6       |      | 6865.54                            | -43.494                        | -30.76         | -12.734            | PASS   |
|                    | 11      |      | 2483.50                            | -38.170                        | -31.5          | -6.670             | PASS   |
|                    |         |      | 6813.10                            | -43.567                        | -31.5          | -12.067            | PASS   |

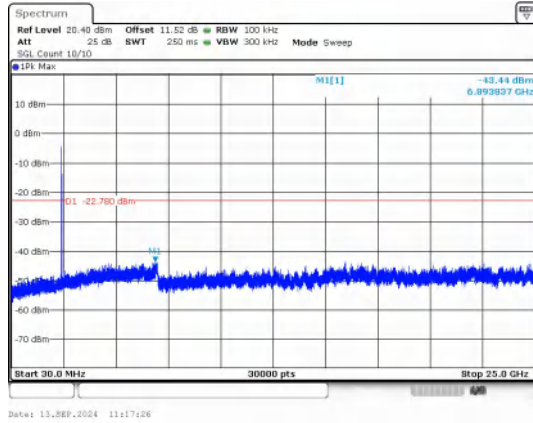
### Test Graphs



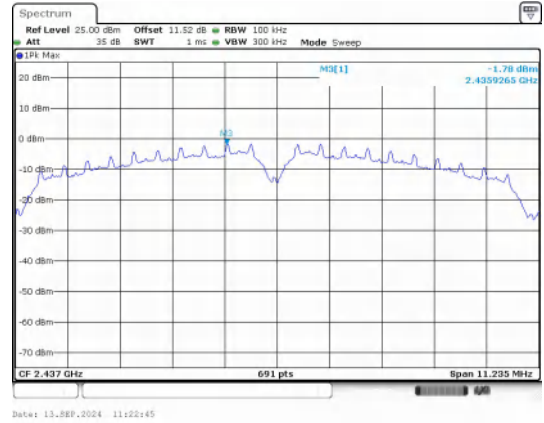
**In-Band Reference Level**  
IEEE 802.11b\_Channel 1\_20MHz\_Antenna 1



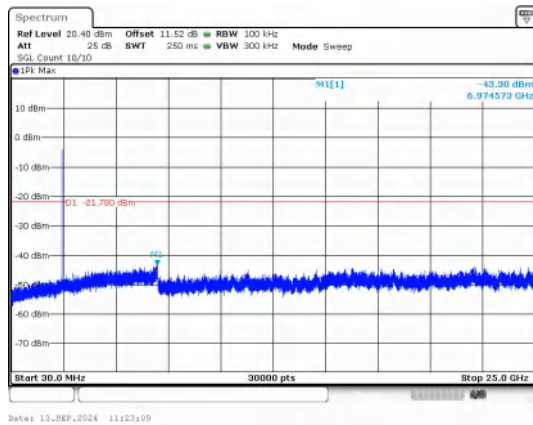
**Out Of Band Emission**  
IEEE 802.11b\_Channel 1\_20MHz\_Antenna 1



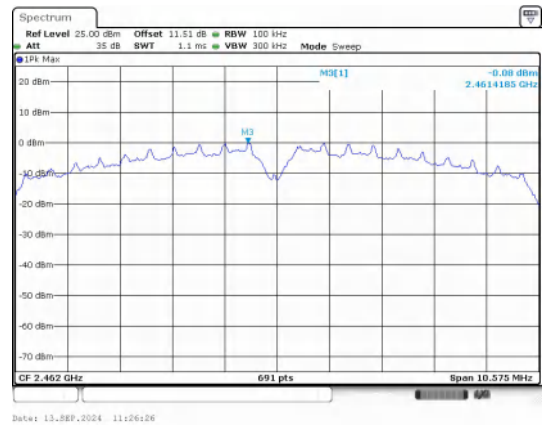
30.0 MHz - 25000.0 MHz  
IEEE 802.11b\_Channel 1\_20MHz\_Antenna 1



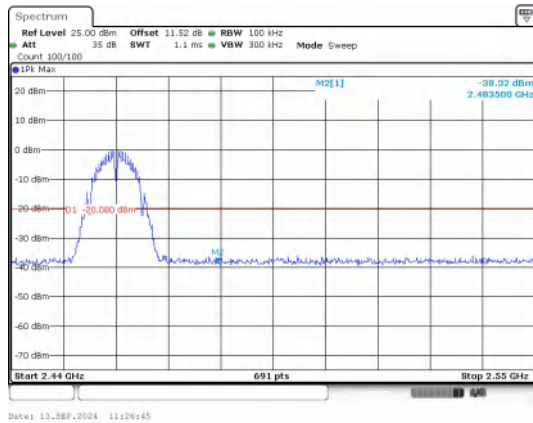
In-Band Reference Level  
IEEE 802.11b\_Channel 6\_20MHz\_Antenna 1



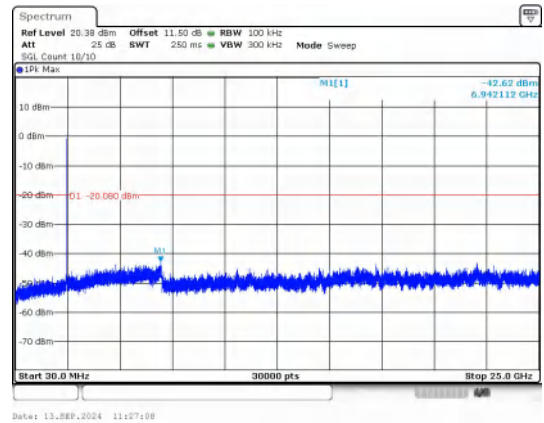
30.0 MHz - 25000.0 MHz  
IEEE 802.11b\_Channel 6\_20MHz\_Antenna 1



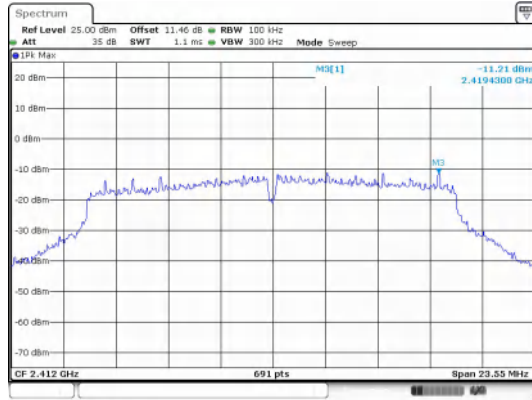
In-Band Reference Level  
IEEE 802.11b\_Channel 11\_20MHz\_Antenna 1



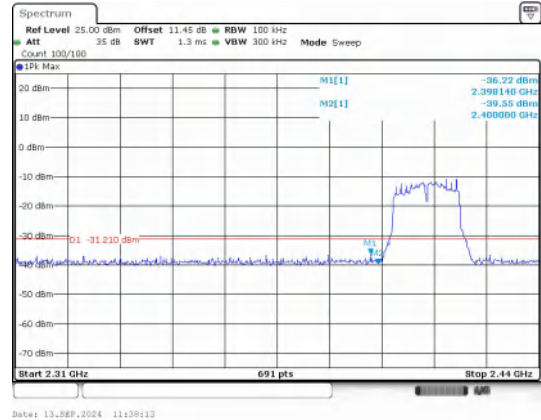
Out Of Band Emission  
IEEE 802.11b\_Channel 11\_20MHz\_Antenna 1



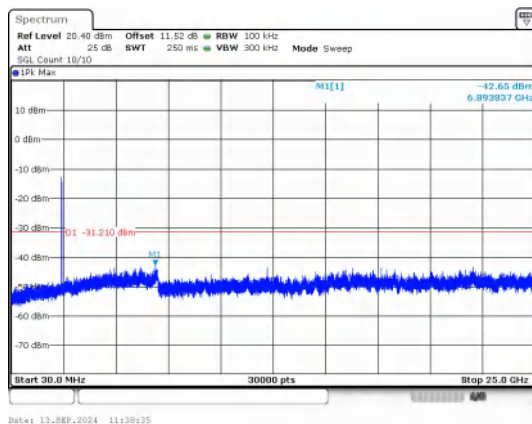
30.0 MHz - 25000.0 MHz  
IEEE 802.11b\_Channel 11\_20MHz\_Antenna 1



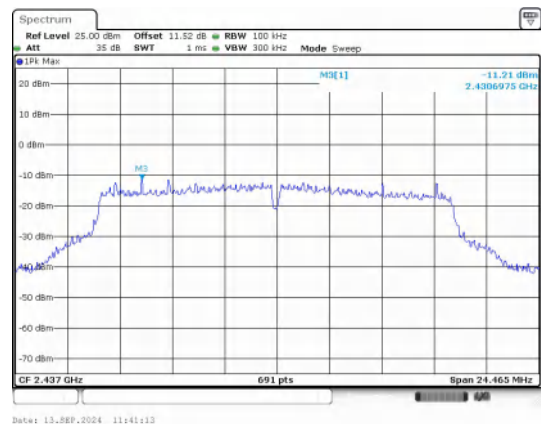
**In-Band Reference Level**  
**IEEE 802.11g\_Channel 1\_20MHz\_Antenna 1**



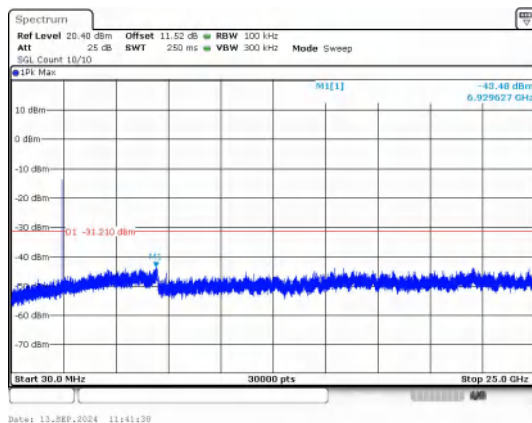
**Out Of Band Emission**  
**IEEE 802.11g\_Channel 1\_20MHz\_Antenna 1**



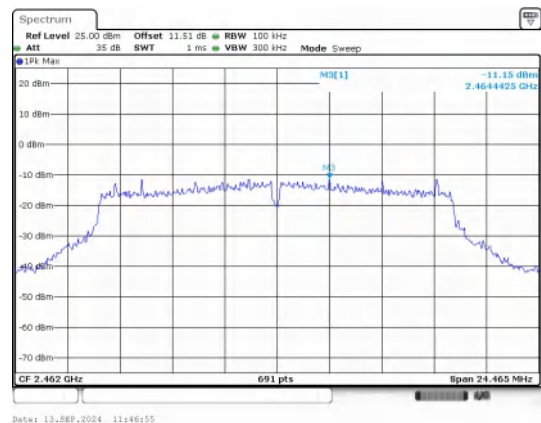
**30.0 MHz - 25000.0 MHz**  
**IEEE 802.11g\_Channel 1\_20MHz\_Antenna 1**



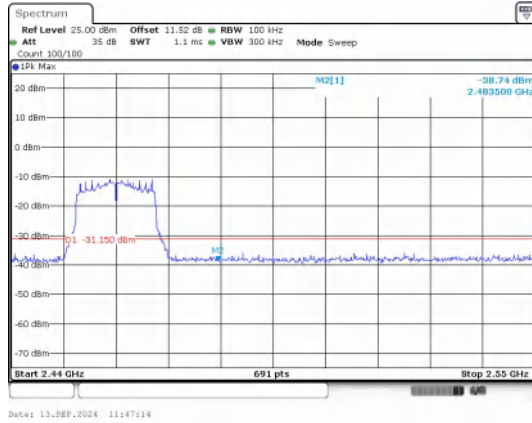
**In-Band Reference Level**  
**IEEE 802.11g\_Channel 6\_20MHz\_Antenna 1**



**30.0 MHz - 25000.0 MHz**  
**IEEE 802.11g\_Channel 6\_20MHz\_Antenna 1**

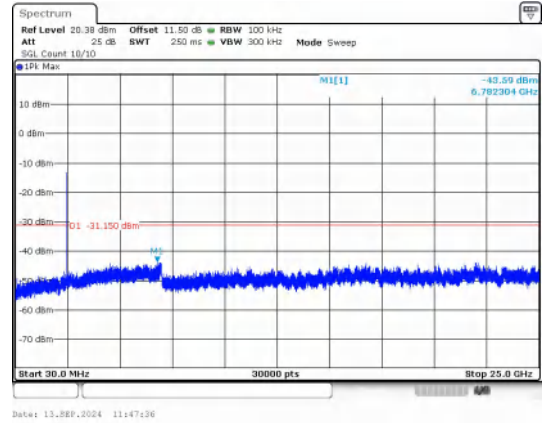


**In-Band Reference Level**  
**IEEE 802.11g\_Channel 11\_20MHz\_Antenna 1**



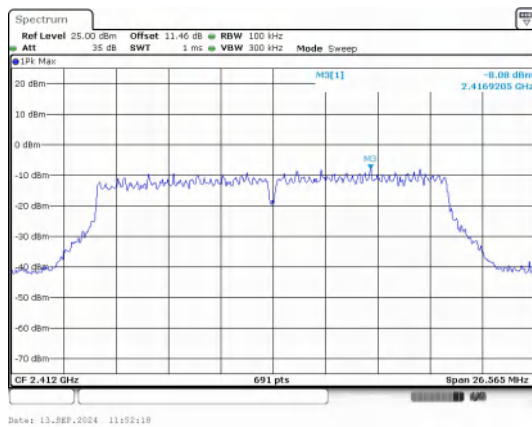
### Out Of Band Emission

IEEE 802.11g\_Channel 11\_20MHz\_Antenna 1



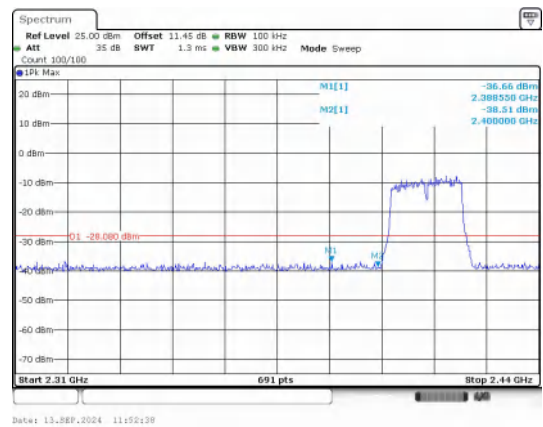
### 30.0 MHz - 25000.0 MHz

IEEE 802.11g\_Channel 11\_20MHz\_Antenna 1



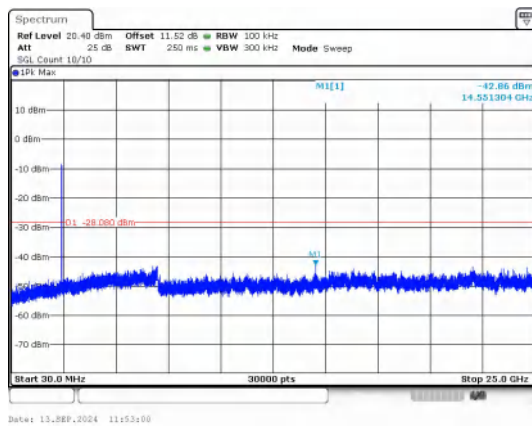
### In-Band Reference Level

IEEE 802.11n\_Channel 1\_20MHz\_Antenna 1



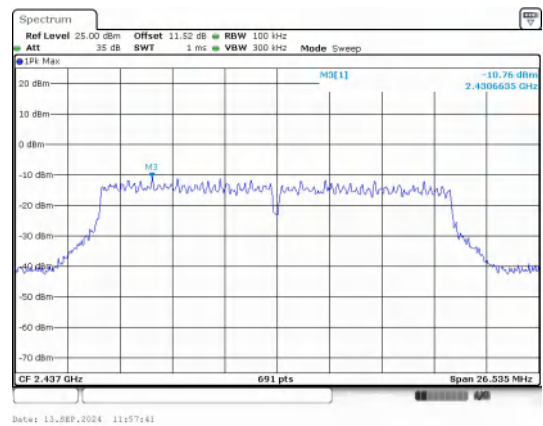
### Out Of Band Emission

IEEE 802.11n\_Channel 1\_20MHz\_Antenna 1



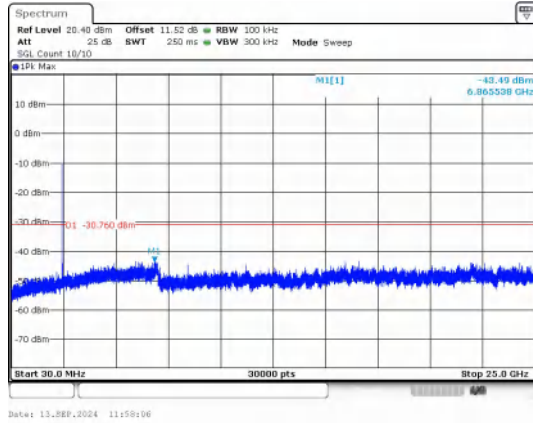
### 30.0 MHz - 25000.0 MHz

IEEE 802.11n\_Channel 1\_20MHz\_Antenna 1

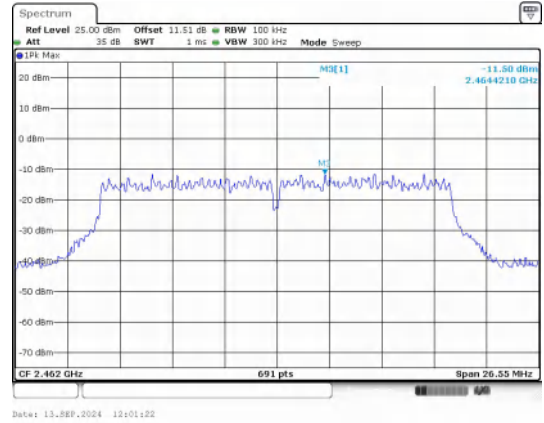


### In-Band Reference Level

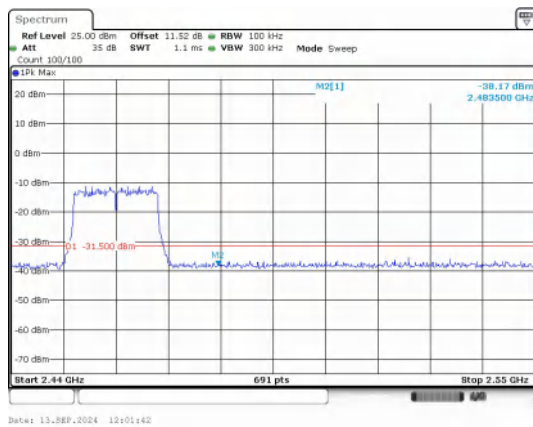
IEEE 802.11n\_Channel 6\_20MHz\_Antenna 1



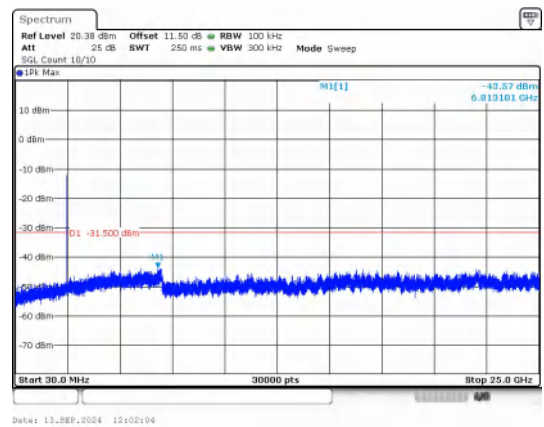
**30.0 MHz - 25000.0 MHz**  
**IEEE 802.11n\_Channel 6\_20MHz\_Antenna 1**



**In-Band Reference Level**  
**IEEE 802.11n\_Channel 11\_20MHz\_Antenna 1**



**Out Of Band Emission**  
**IEEE 802.11n\_Channel 11\_20MHz\_Antenna 1**



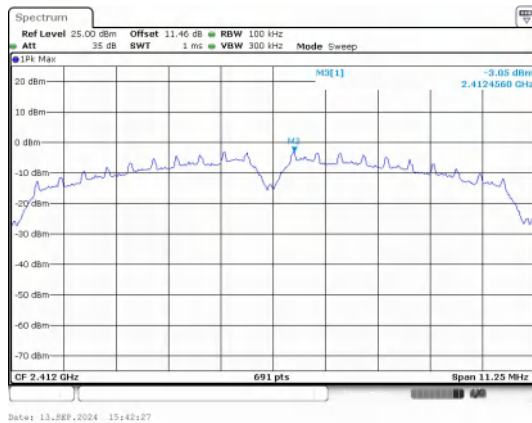
**30.0 MHz - 25000.0 MHz**  
**IEEE 802.11n\_Channel 11\_20MHz\_Antenna 1**

ANT2:

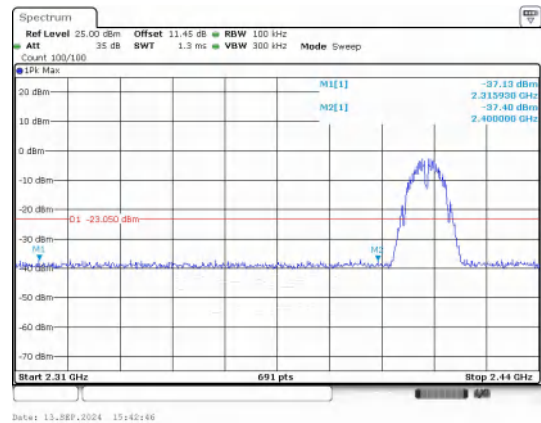
### Test Result

| Mode               | Channel | Ant. | OOB Emission<br>Frequency<br>(MHz) | OOB Emission<br>Level<br>(dBm) | Limit<br>(dBm) | Over Limit<br>(dB) | Result  |      |
|--------------------|---------|------|------------------------------------|--------------------------------|----------------|--------------------|---------|------|
| IEEE 802.11b       | 1       | 2    | 2315.93                            | -37.128                        | -23.05         | -14.078            | PASS    |      |
|                    |         |      | 2400.00                            | -39.157                        | -23.05         | -16.107            | PASS    |      |
|                    | 6       |      | 22004.8                            | -43.478                        | -23.05         | -20.428            | PASS    |      |
|                    |         |      | 11                                 | 16323.3                        | -43.354        | -21.57             | -21.784 | PASS |
|                    |         |      |                                    | 2483.50                        | -37.616        | -21.55             | -16.066 | PASS |
|                    |         |      | 22563.3                            | -43.469                        | -21.55         | -21.919            | PASS    |      |
| IEEE 802.11g       | 1       |      | 2397.39                            | -36.649                        | -30.94         | -5.709             | PASS    |      |
|                    |         |      | 2400.00                            | -38.257                        | -30.94         | -7.317             | PASS    |      |
|                    | 6       |      | 16270.9                            | -42.950                        | -30.94         | -12.010            | PASS    |      |
|                    |         |      | 11                                 | 6937.95                        | -42.881        | -30.86             | -12.021 | PASS |
|                    |         |      |                                    | 2483.50                        | -37.550        | -31.72             | -5.830  | PASS |
|                    |         |      | 6979.57                            | -43.464                        | -31.72         | -11.744            | PASS    |      |
| IEEE<br>802.11n_20 | 1       |      | 2358.44                            | -36.601                        | -31.68         | -4.921             | PASS    |      |
|                    |         |      | 2400.00                            | -38.200                        | -31.68         | -6.520             | PASS    |      |
|                    | 6       |      | 6924.60                            | -42.162                        | -31.68         | -10.482            | PASS    |      |
|                    |         |      | 11                                 | 23981.6                        | -43.345        | -31.77             | -11.575 | PASS |
|                    |         |      |                                    | 2483.50                        | -38.528        | -32.09             | -6.438  | PASS |
|                    |         |      | 6929.63                            | -43.206                        | -32.09         | -11.116            | PASS    |      |

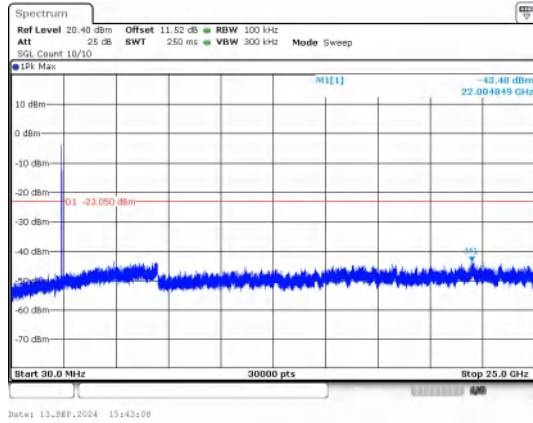
### Test Graphs



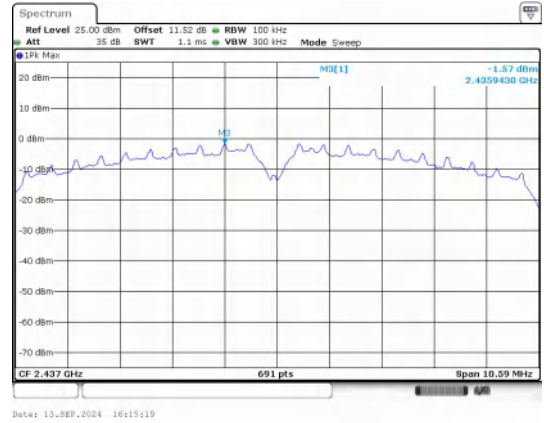
**In-Band Reference Level**  
IEEE 802.11b\_Channel 1\_20MHz\_Antenna 2



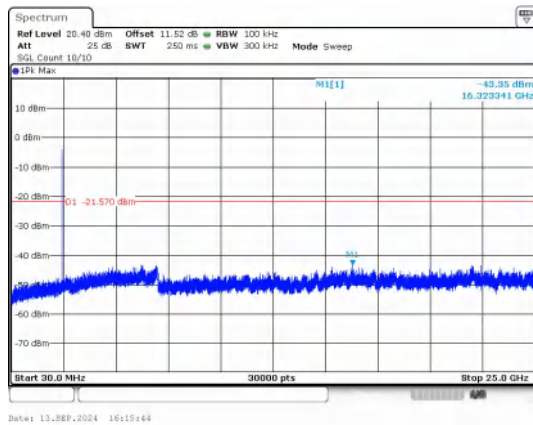
**Out Of Band Emission**  
IEEE 802.11b\_Channel 1\_20MHz\_Antenna 2



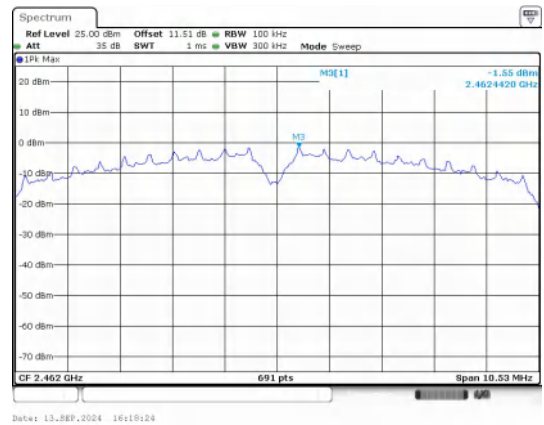
30.0 MHz - 25000.0 MHz  
IEEE 802.11b\_Channel 1\_20MHz\_Antenna 2



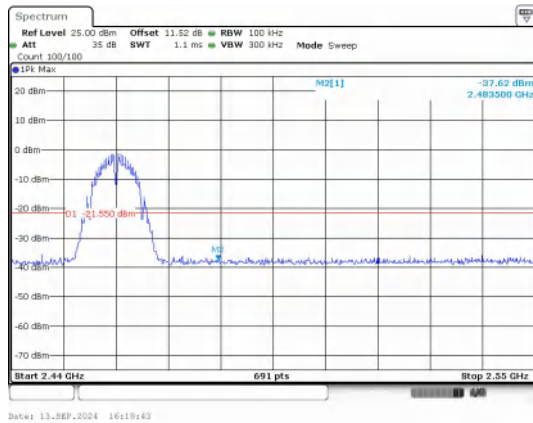
In-Band Reference Level  
IEEE 802.11b\_Channel 6\_20MHz\_Antenna 2



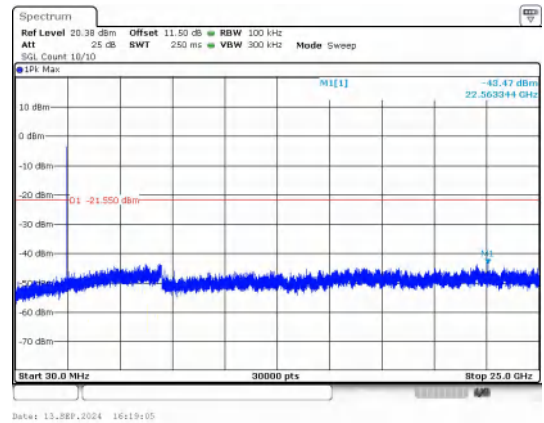
30.0 MHz - 25000.0 MHz  
IEEE 802.11b\_Channel 6\_20MHz\_Antenna 2



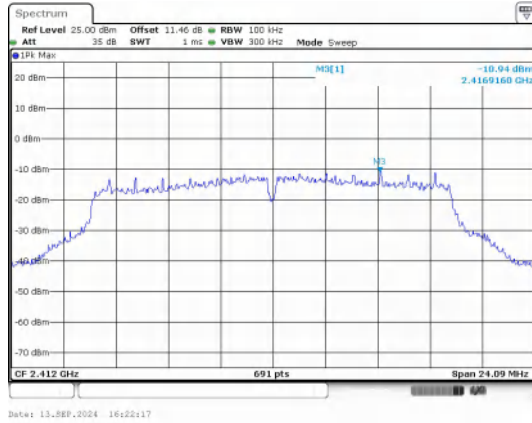
In-Band Reference Level  
IEEE 802.11b\_Channel 11\_20MHz\_Antenna 2



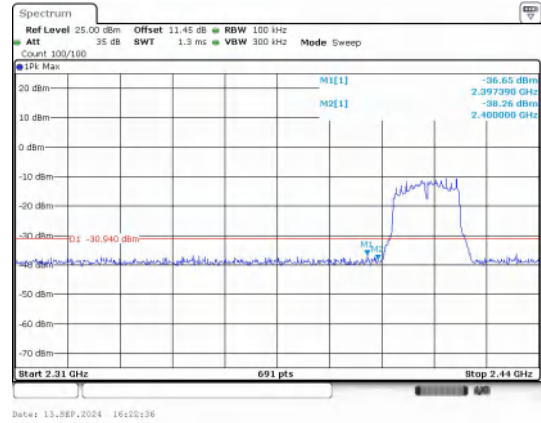
Out Of Band Emission  
IEEE 802.11b\_Channel 11\_20MHz\_Antenna 2



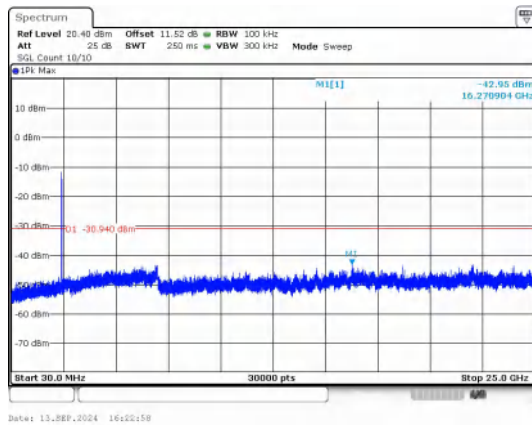
30.0 MHz - 25000.0 MHz  
IEEE 802.11b\_Channel 11\_20MHz\_Antenna 2



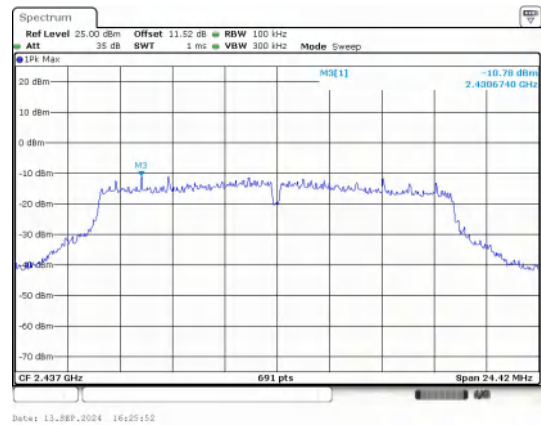
**In-Band Reference Level**  
**IEEE 802.11g\_Channel 1\_20MHz\_Antenna 2**



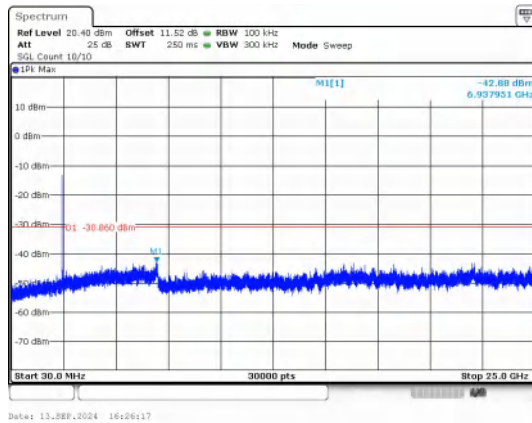
**Out Of Band Emission**  
**IEEE 802.11g\_Channel 1\_20MHz\_Antenna 2**



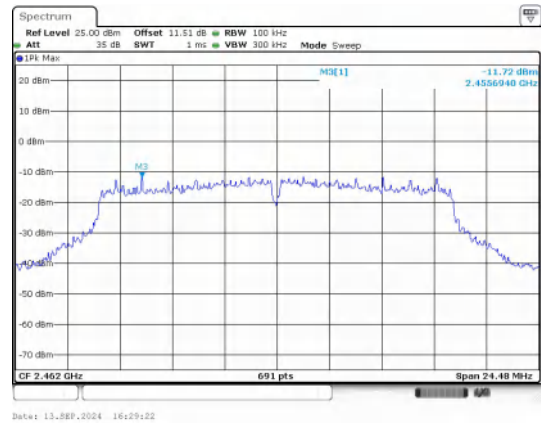
**30.0 MHz - 25000.0 MHz**  
**IEEE 802.11g\_Channel 1\_20MHz\_Antenna 2**



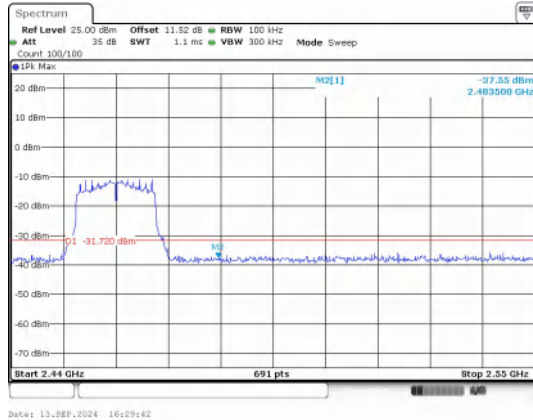
**In-Band Reference Level**  
**IEEE 802.11g\_Channel 6\_20MHz\_Antenna 2**



**30.0 MHz - 25000.0 MHz**  
**IEEE 802.11g\_Channel 6\_20MHz\_Antenna 2**

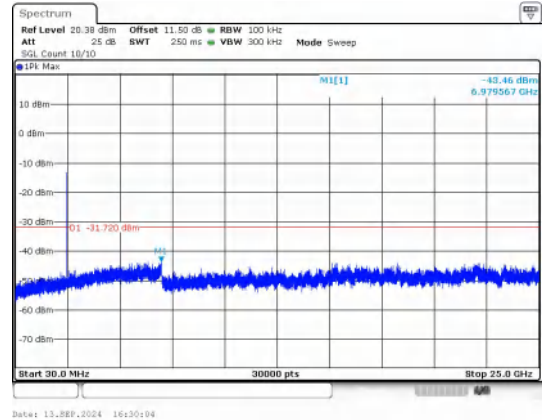


**In-Band Reference Level**  
**IEEE 802.11g\_Channel 11\_20MHz\_Antenna 2**



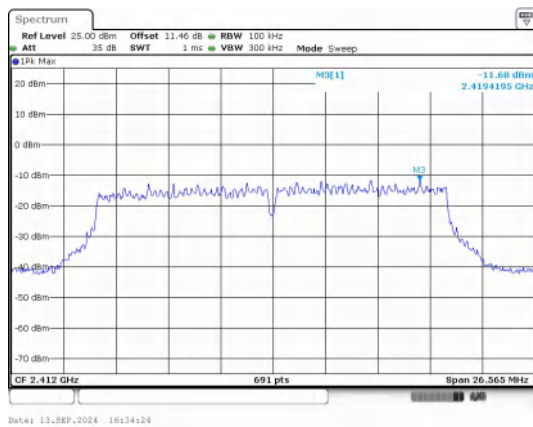
Out Of Band Emission

IEEE 802.11g\_Channel 11\_20MHz\_Antenna 2



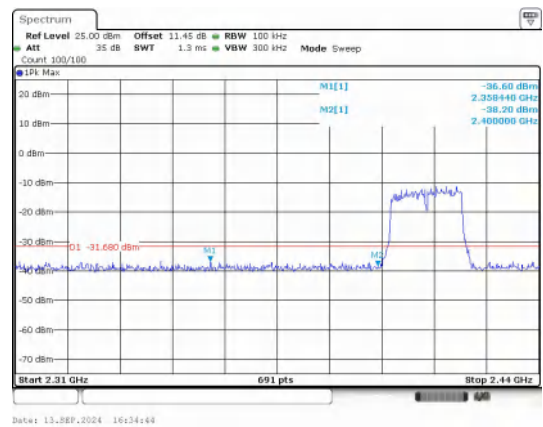
30.0 MHz - 25000.0 MHz

IEEE 802.11g\_Channel 11\_20MHz\_Antenna 2



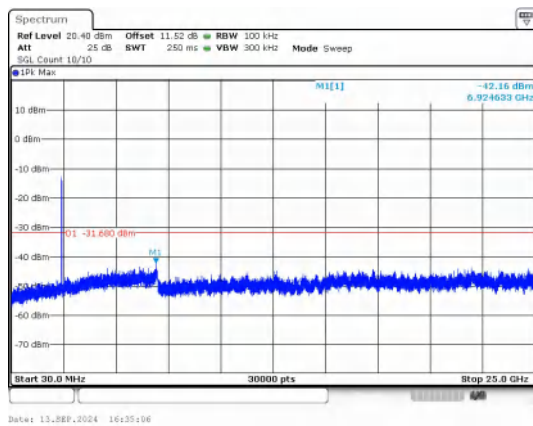
In-Band Reference Level

IEEE 802.11n\_Channel 1\_20MHz\_Antenna 2



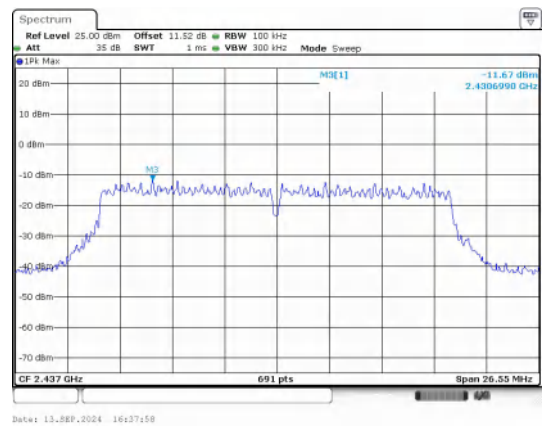
Out Of Band Emission

IEEE 802.11n\_Channel 1\_20MHz\_Antenna 2



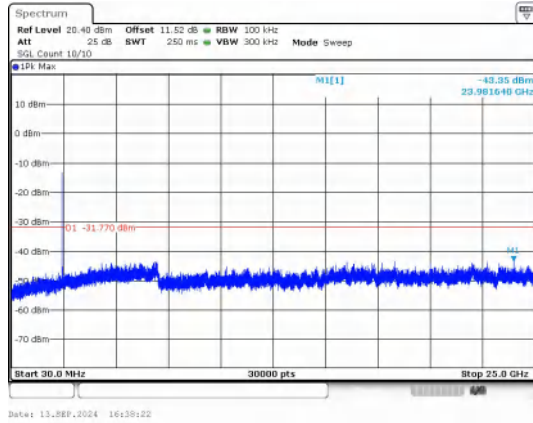
30.0 MHz - 25000.0 MHz

IEEE 802.11n\_Channel 1\_20MHz\_Antenna 2

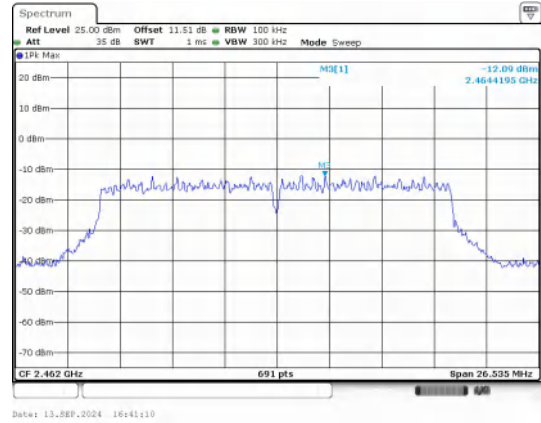


In-Band Reference Level

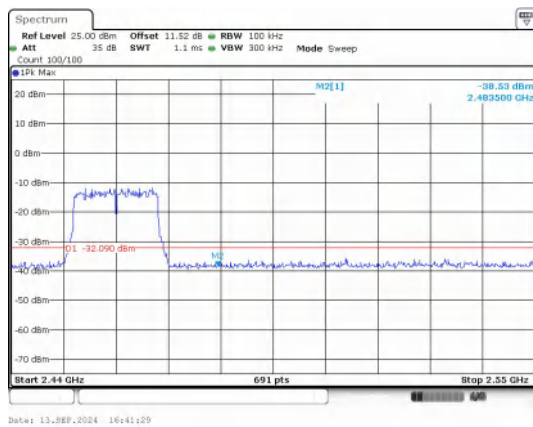
IEEE 802.11n\_Channel 6\_20MHz\_Antenna 2



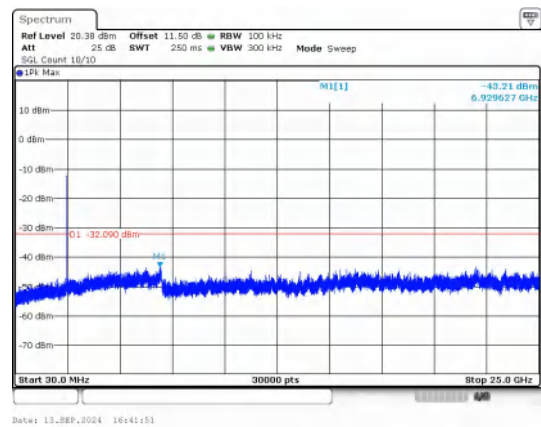
**30.0 MHz - 25000.0 MHz**  
**IEEE 802.11n\_Channel 6\_20MHz\_Antenna 2**



**In-Band Reference Level**  
**IEEE 802.11n\_Channel 11\_20MHz\_Antenna 2**



**Out Of Band Emission**  
**IEEE 802.11n\_Channel 11\_20MHz\_Antenna 2**



**30.0 MHz - 25000.0 MHz**  
**IEEE 802.11n\_Channel 11\_20MHz\_Antenna 2**

--The end--