

# RF Test Data for 2.4G Wi-Fi (Conducted Measurements)

| General Description of EUT                                                                      |                                      |
|-------------------------------------------------------------------------------------------------|--------------------------------------|
| Product Name:                                                                                   | netool.io handheld network analyzer. |
| Test Model:                                                                                     | NE1D                                 |
| Sample ID:                                                                                      | 202209-0277-3-2#                     |
| Environmental Conditions                                                                        |                                      |
| Temperature:                                                                                    | 24°C                                 |
| Relative Humidity:                                                                              | 50%                                  |
| Test Voltage:                                                                                   | DC 3.7V                              |
| Test Engineer:                                                                                  | LiuJiming                            |
| Note: For a more detailed features description, please refer to the report TBR-C-202209-0277-3. |                                      |

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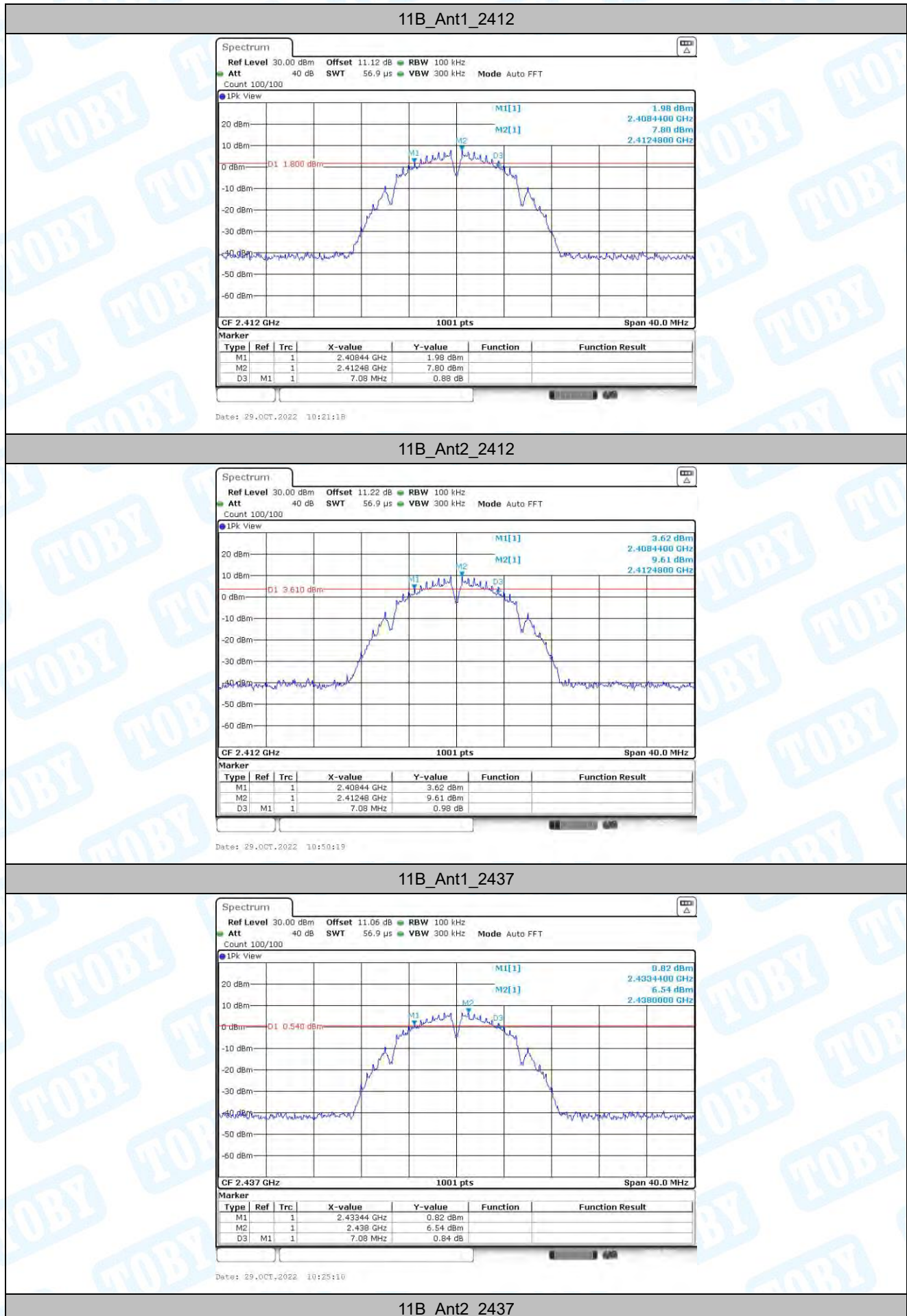
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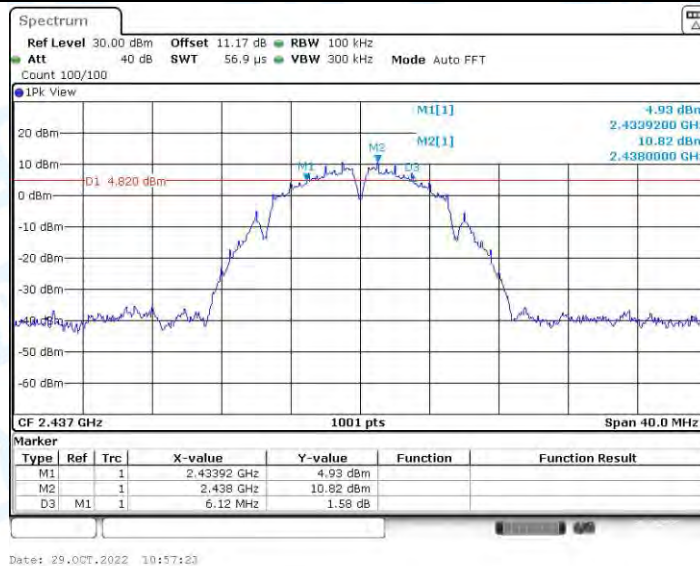
## 1. DTS Bandwidth

### 1.1. Test Result

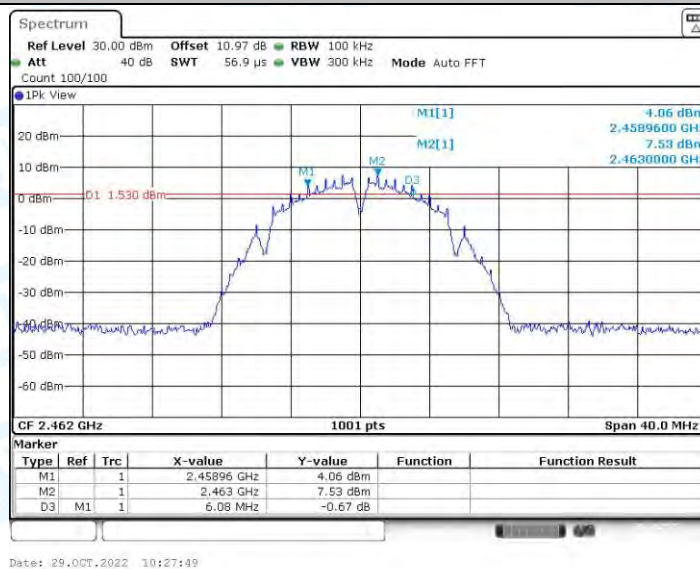
| TestMode  | Antenna | Channel | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|---------|---------|--------------|---------|---------|------------|---------|
| 11B       | Ant1    | 2412    | 7.08         | 2408.44 | 2415.52 | 0.5        | PASS    |
|           | Ant2    | 2412    | 7.08         | 2408.44 | 2415.52 | 0.5        | PASS    |
|           | Ant1    | 2437    | 7.08         | 2433.44 | 2440.52 | 0.5        | PASS    |
|           | Ant2    | 2437    | 6.12         | 2433.92 | 2440.04 | 0.5        | PASS    |
|           | Ant1    | 2462    | 6.08         | 2458.96 | 2465.04 | 0.5        | PASS    |
|           | Ant2    | 2462    | 6.12         | 2458.92 | 2465.04 | 0.5        | PASS    |
| 11G       | Ant1    | 2412    | 16.04        | 2404.08 | 2420.12 | 0.5        | PASS    |
|           | Ant2    | 2412    | 15.72        | 2404.40 | 2420.12 | 0.5        | PASS    |
|           | Ant1    | 2437    | 15.88        | 2429.24 | 2445.12 | 0.5        | PASS    |
|           | Ant2    | 2437    | 16.08        | 2429.08 | 2445.16 | 0.5        | PASS    |
|           | Ant1    | 2462    | 15.72        | 2454.40 | 2470.12 | 0.5        | PASS    |
|           | Ant2    | 2462    | 16.00        | 2454.12 | 2470.12 | 0.5        | PASS    |
| 11N20MIMO | Ant1    | 2412    | 17.52        | 2403.24 | 2420.76 | 0.5        | PASS    |
|           | Ant2    | 2412    | 17.56        | 2403.20 | 2420.76 | 0.5        | PASS    |
|           | Ant1    | 2437    | 16.96        | 2428.84 | 2445.80 | 0.5        | PASS    |
|           | Ant2    | 2437    | 17.52        | 2428.24 | 2445.76 | 0.5        | PASS    |
|           | Ant1    | 2462    | 16.92        | 2453.84 | 2470.76 | 0.5        | PASS    |
|           | Ant2    | 2462    | 17.28        | 2453.48 | 2470.76 | 0.5        | PASS    |
| 11N40MIMO | Ant1    | 2422    | 35.92        | 2403.84 | 2439.76 | 0.5        | PASS    |
|           | Ant2    | 2422    | 35.76        | 2403.84 | 2439.60 | 0.5        | PASS    |
|           | Ant1    | 2437    | 35.52        | 2419.40 | 2454.92 | 0.5        | PASS    |
|           | Ant2    | 2437    | 36.32        | 2418.84 | 2455.16 | 0.5        | PASS    |
|           | Ant1    | 2452    | 35.92        | 2433.84 | 2469.76 | 0.5        | PASS    |
|           | Ant2    | 2452    | 35.92        | 2433.84 | 2469.76 | 0.5        | PASS    |

## 1.2. Test Graphs

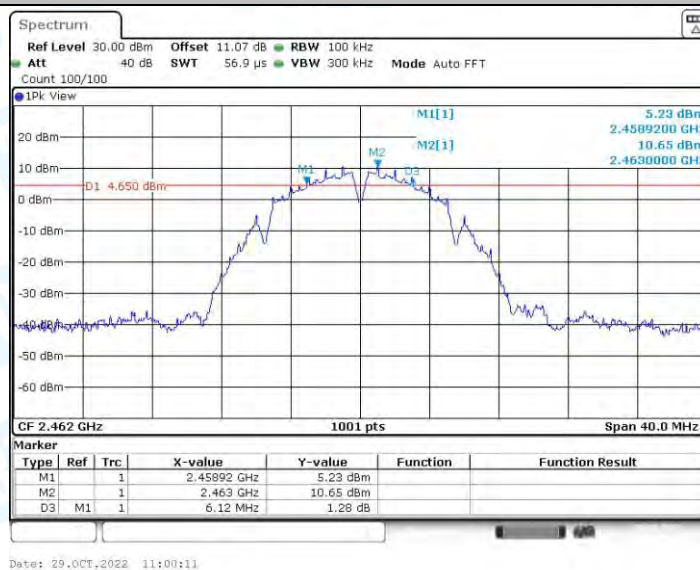




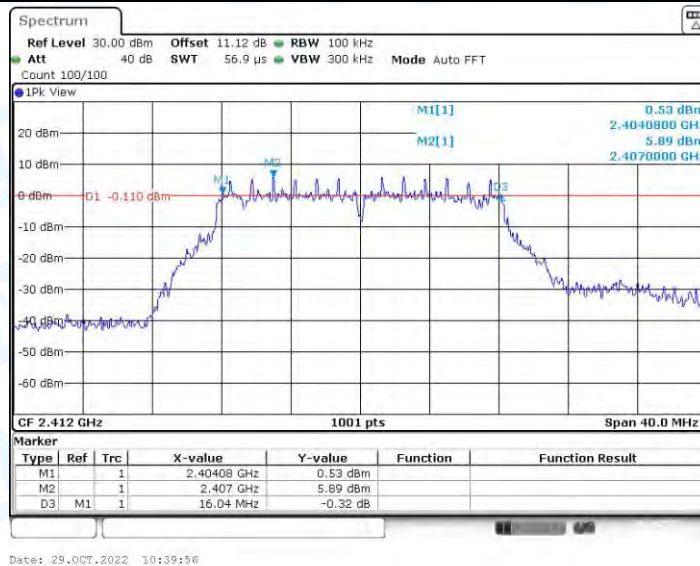
11B\_Ant1\_2462



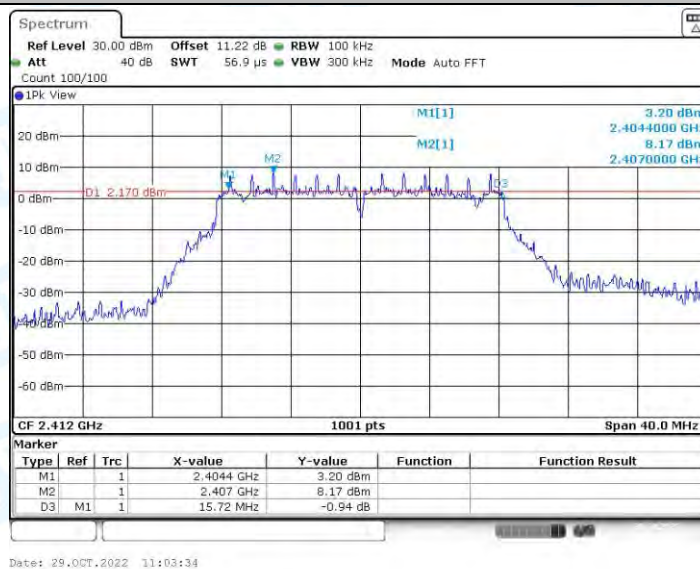
11B\_Ant2\_2462



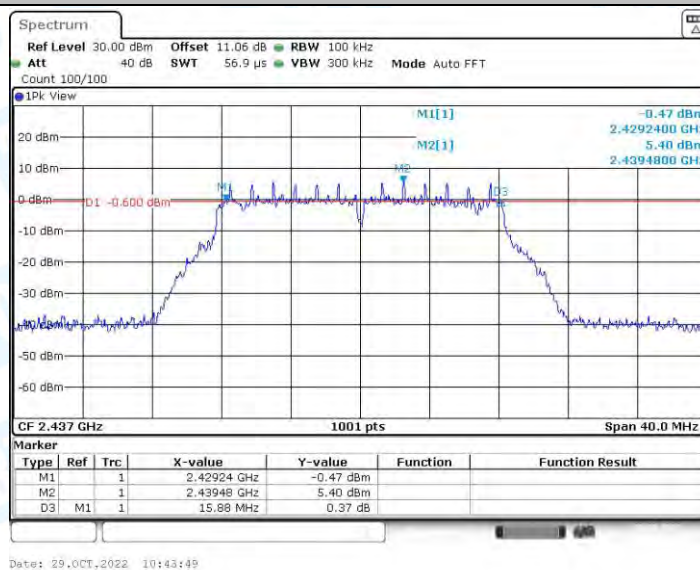
11G\_Ant1\_2412



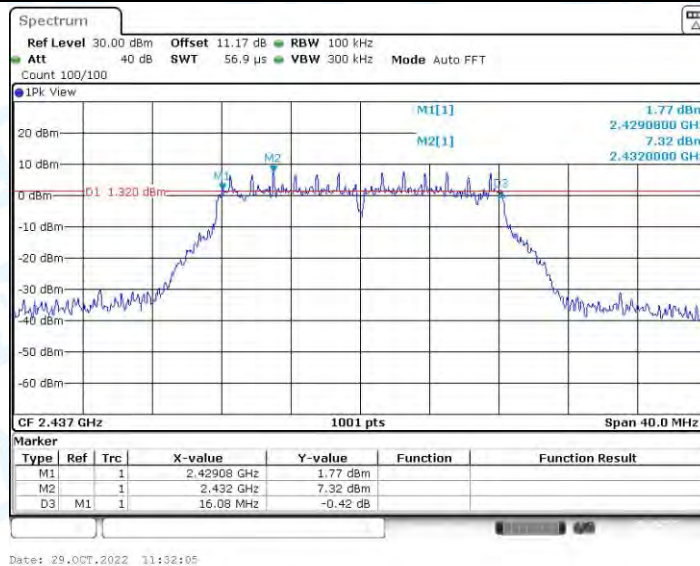
## 11G\_Ant2\_2412



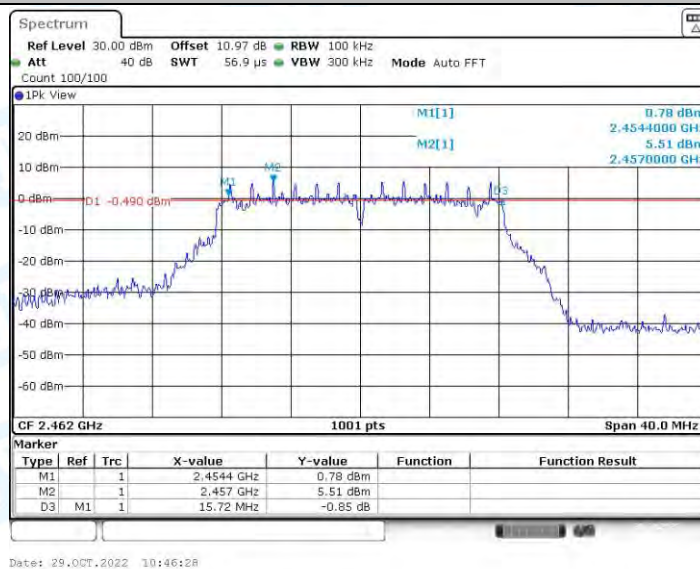
## 11G\_Ant1\_2437



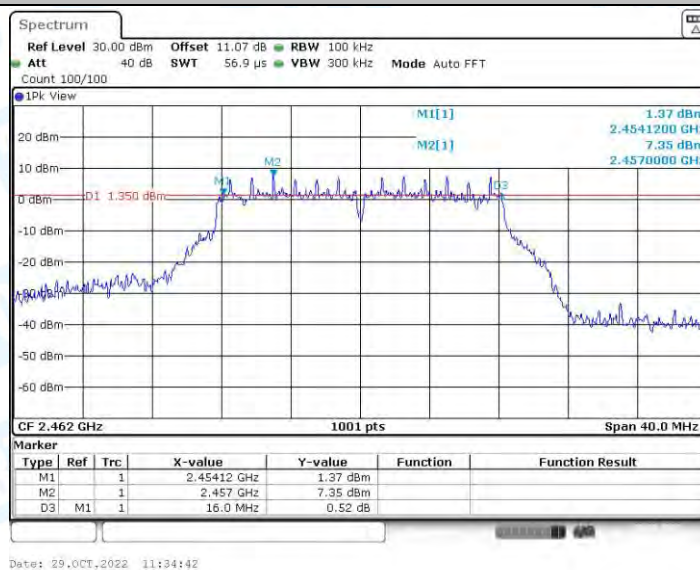
## 11G\_Ant2\_2437



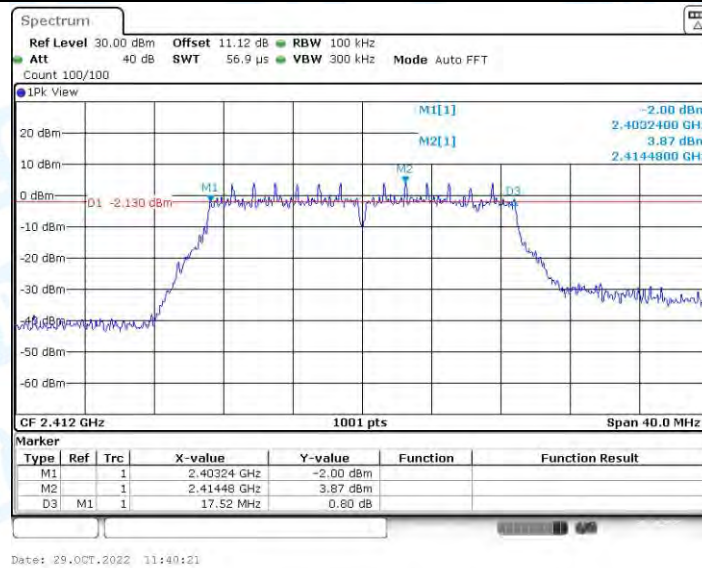
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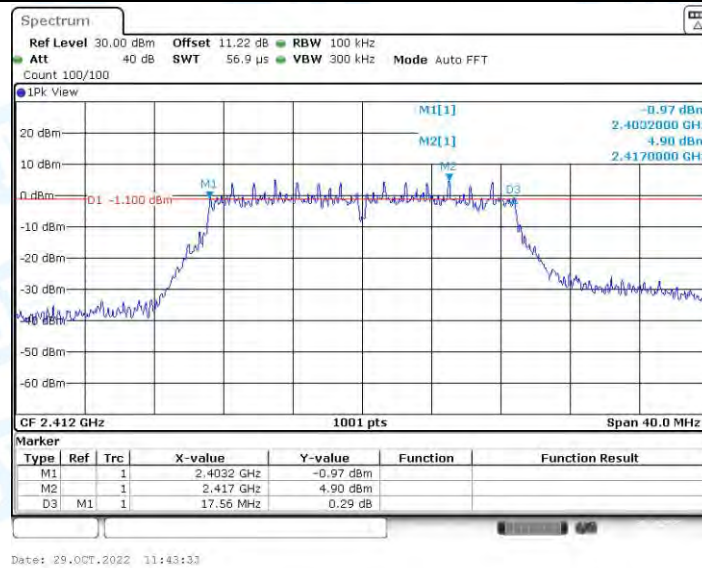
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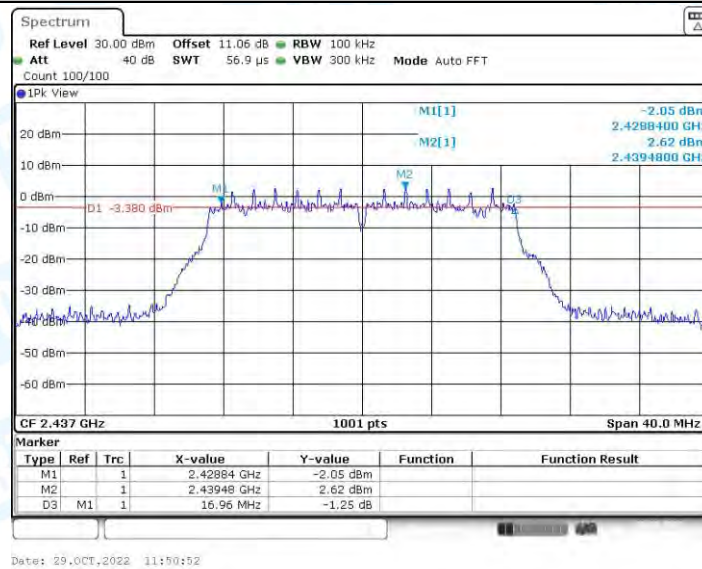
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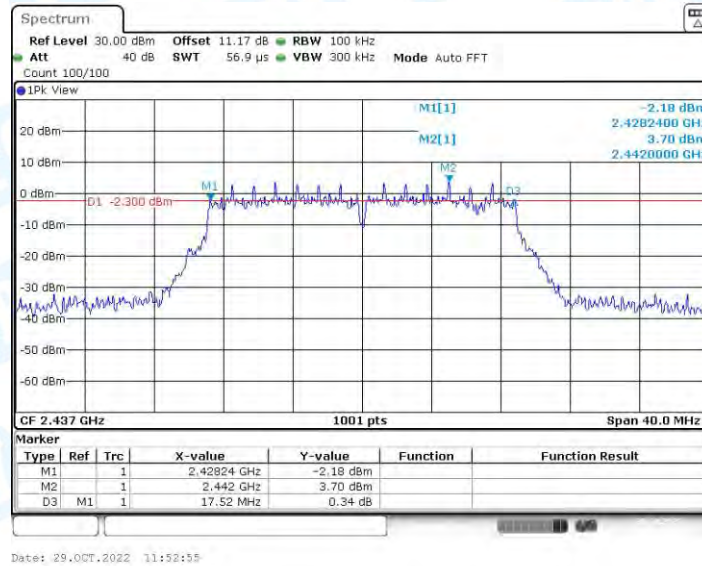
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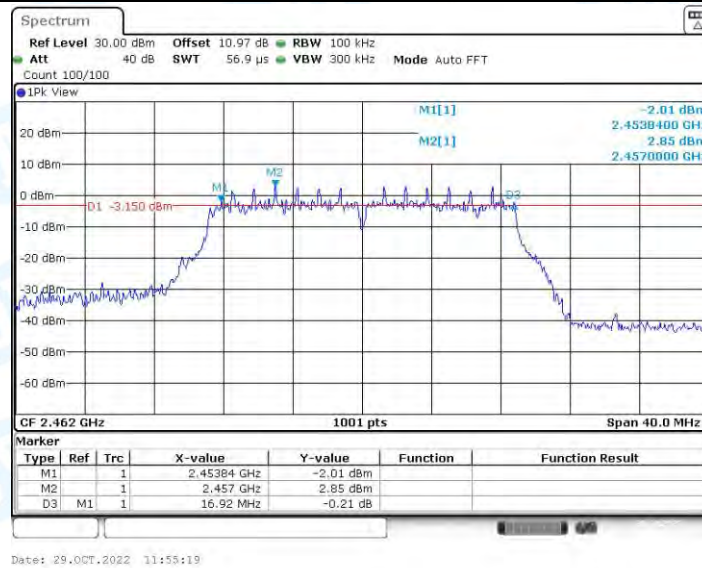
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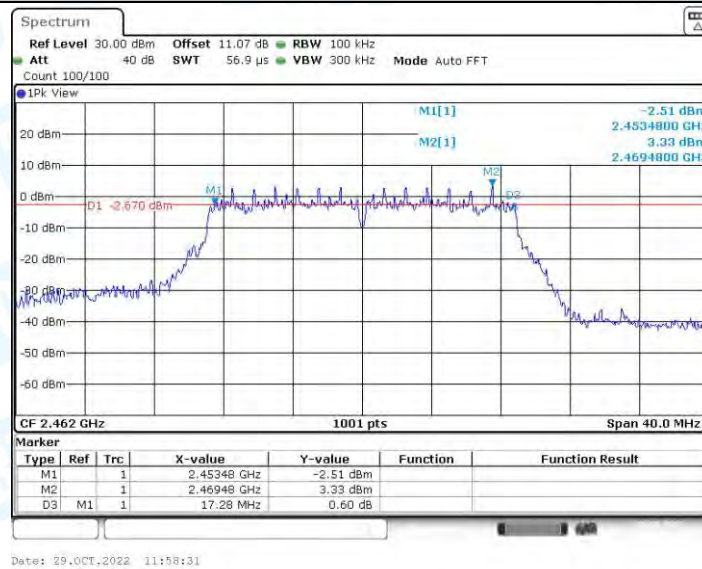
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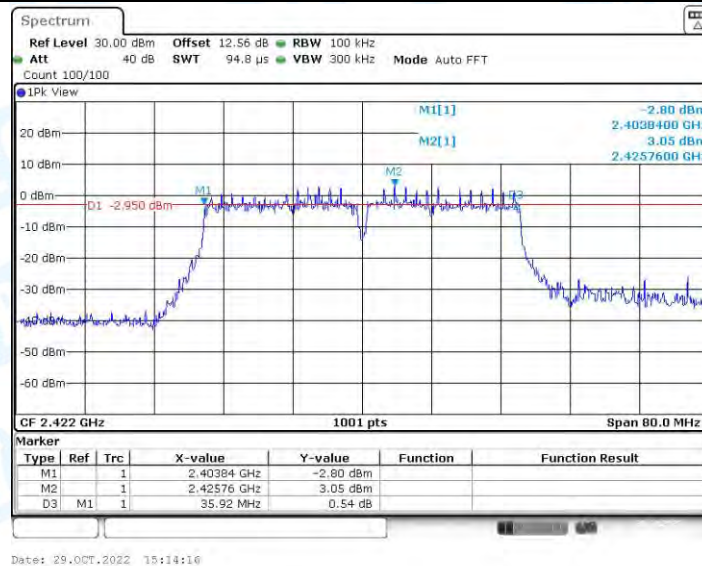
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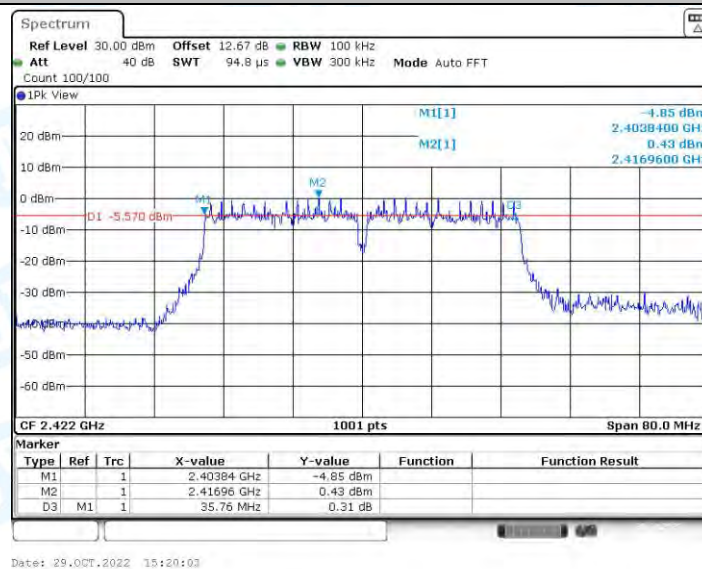
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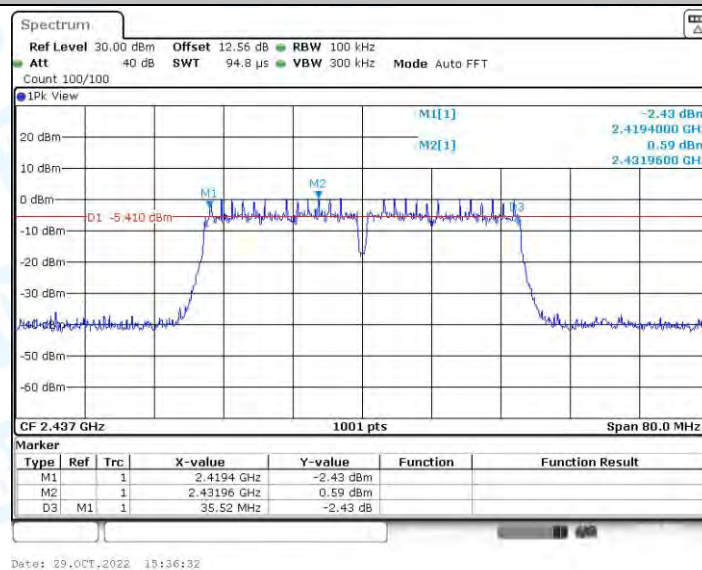
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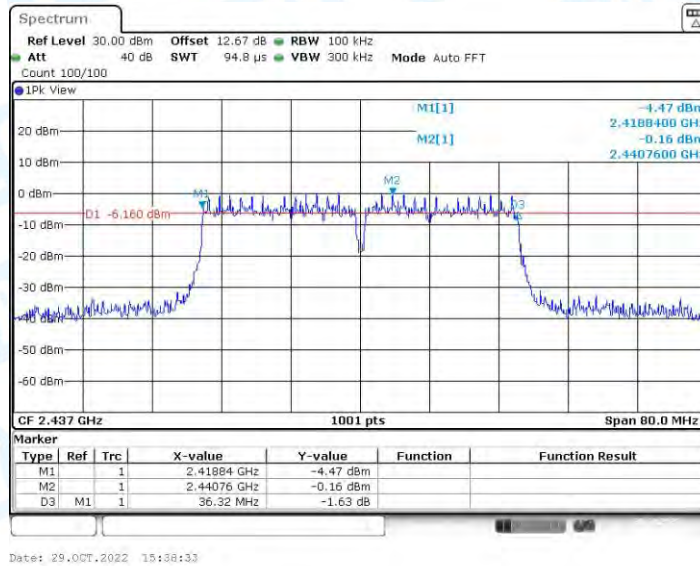
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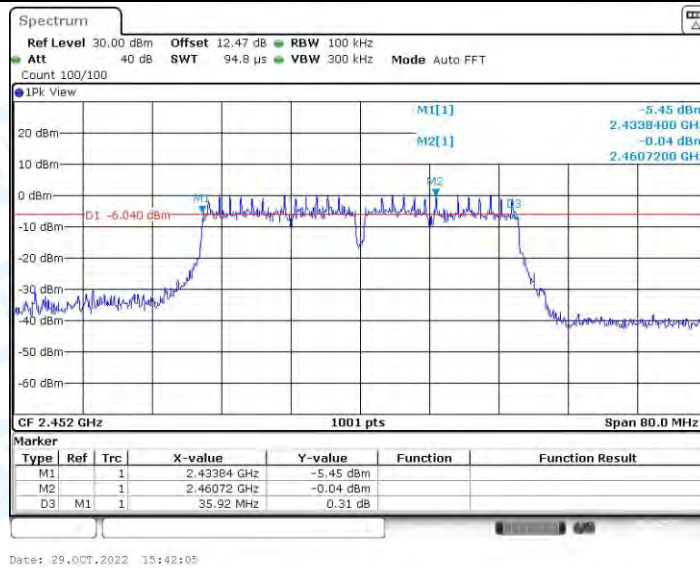
11N40MIMO\_Ant1\_2437



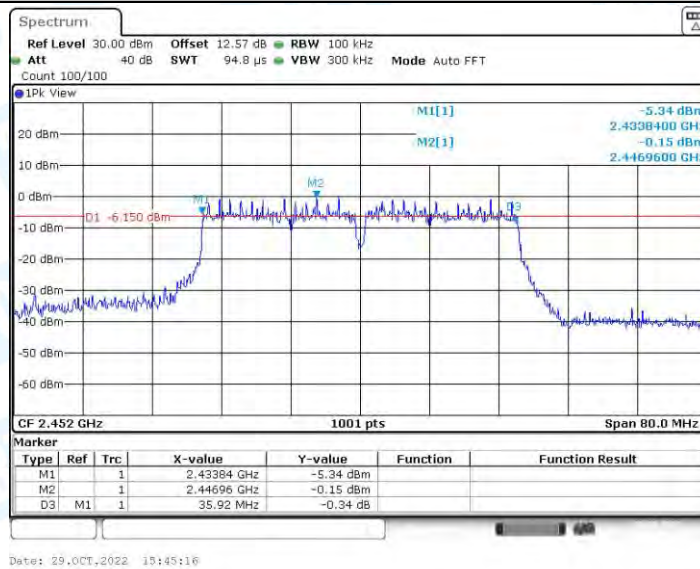
11N40MIMO\_Ant2\_2437



## 11N40MIMO\_Ant1\_2452



## 11N40MIMO\_Ant2\_2452



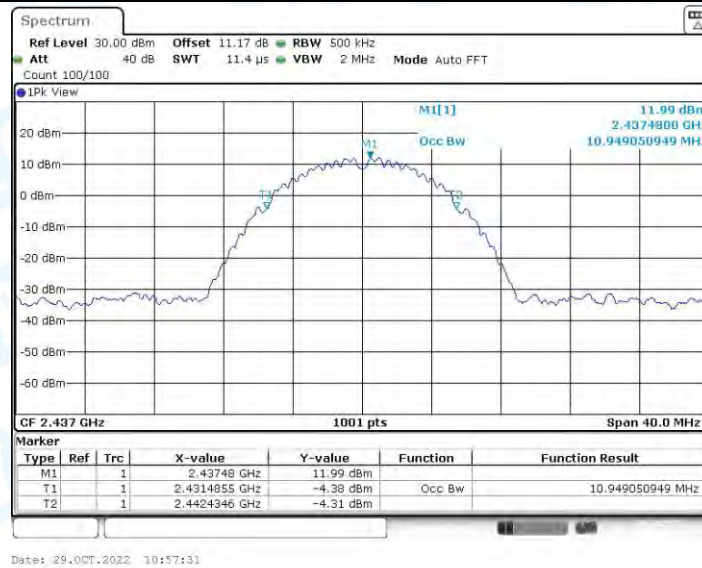
## 2. Occupied Channel Bandwidth

### 2.1. Test Result

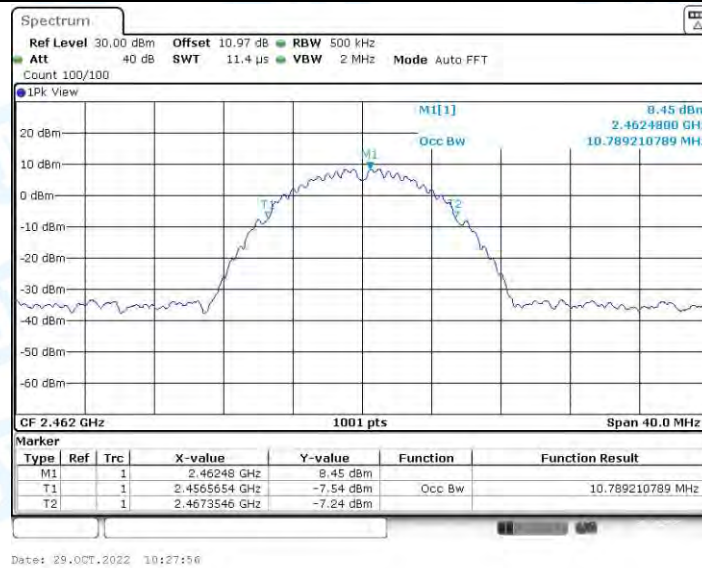
| TestMode  | Antenna | Channel | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|---------|-----------|-----------|-----------|------------|---------|
| 11B       | Ant1    | 2412    | 10.829    | 2406.5654 | 2417.3946 | ---        | ---     |
|           | Ant2    | 2412    | 10.829    | 2406.5255 | 2417.3546 | ---        | ---     |
|           | Ant1    | 2437    | 10.829    | 2431.5654 | 2442.3946 | ---        | ---     |
|           | Ant2    | 2437    | 10.949    | 2431.4855 | 2442.4346 | ---        | ---     |
|           | Ant1    | 2462    | 10.789    | 2456.5654 | 2467.3546 | ---        | ---     |
|           | Ant2    | 2462    | 11.029    | 2456.4456 | 2467.4745 | ---        | ---     |
| 11G       | Ant1    | 2412    | 17.463    | 2403.2887 | 2420.7512 | ---        | ---     |
|           | Ant2    | 2412    | 17.343    | 2403.3287 | 2420.6713 | ---        | ---     |
|           | Ant1    | 2437    | 17.343    | 2428.3686 | 2445.7113 | ---        | ---     |
|           | Ant2    | 2437    | 17.423    | 2428.3686 | 2445.7912 | ---        | ---     |
|           | Ant1    | 2462    | 17.463    | 2453.0889 | 2470.5514 | ---        | ---     |
|           | Ant2    | 2462    | 17.502    | 2453.0889 | 2470.5914 | ---        | ---     |
| 11N20MIMO | Ant1    | 2412    | 18.022    | 2403.0090 | 2421.0310 | ---        | ---     |
|           | Ant2    | 2412    | 17.982    | 2403.0090 | 2420.9910 | ---        | ---     |
|           | Ant1    | 2437    | 18.462    | 2427.8092 | 2446.2707 | ---        | ---     |
|           | Ant2    | 2437    | 18.262    | 2428.0090 | 2446.2707 | ---        | ---     |
|           | Ant1    | 2462    | 18.062    | 2452.8891 | 2470.9510 | ---        | ---     |
|           | Ant2    | 2462    | 18.182    | 2452.8092 | 2470.9910 | ---        | ---     |
| 11N40MIMO | Ant1    | 2422    | 36.923    | 2403.3786 | 2440.3017 | ---        | ---     |
|           | Ant2    | 2422    | 36.444    | 2403.6983 | 2440.1419 | ---        | ---     |
|           | Ant1    | 2437    | 36.763    | 2418.6983 | 2455.4615 | ---        | ---     |
|           | Ant2    | 2437    | 36.364    | 2418.8581 | 2455.2218 | ---        | ---     |
|           | Ant1    | 2452    | 36.683    | 2433.6184 | 2470.3017 | ---        | ---     |
|           | Ant2    | 2452    | 36.683    | 2433.5385 | 2470.2218 | ---        | ---     |

## 2.2. Test Graphs

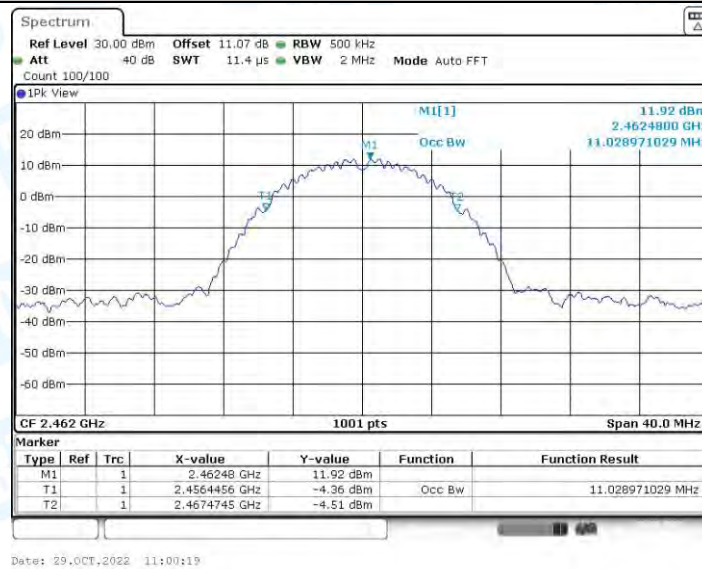




11B\_Ant1\_2462



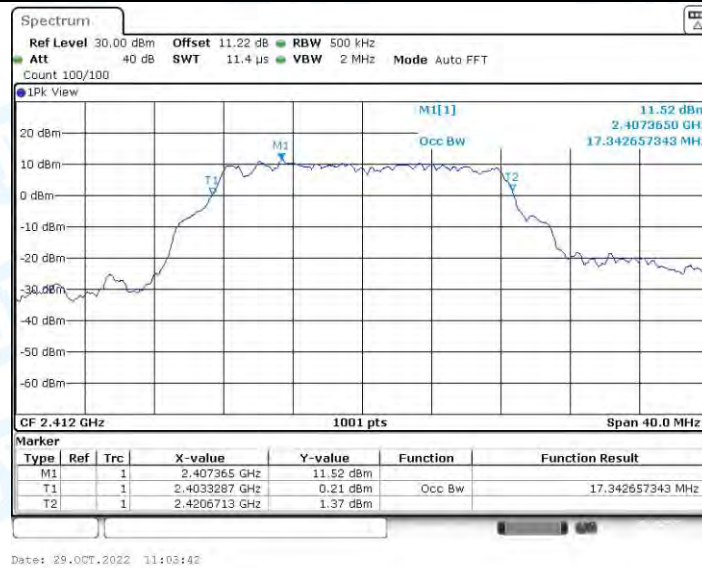
11B\_Ant2\_2462



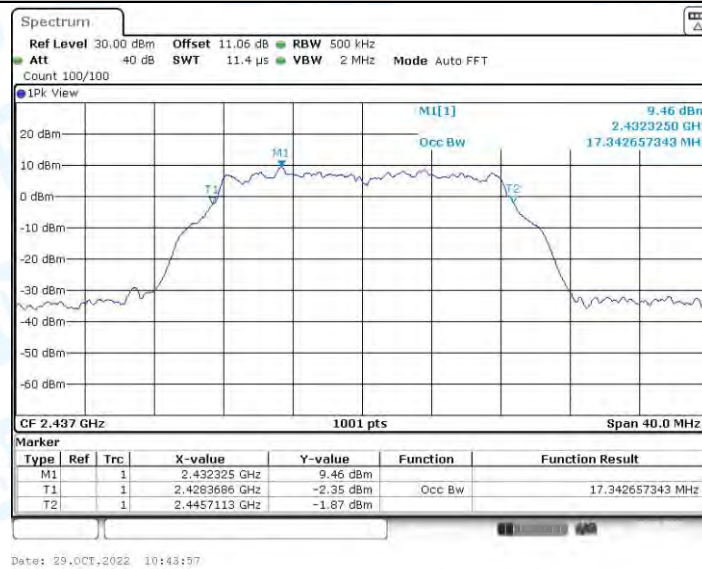
11G\_Ant1\_2412



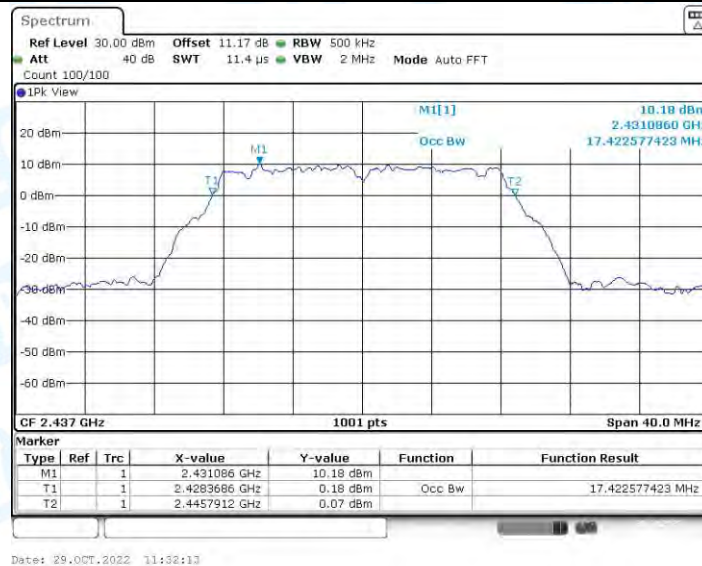
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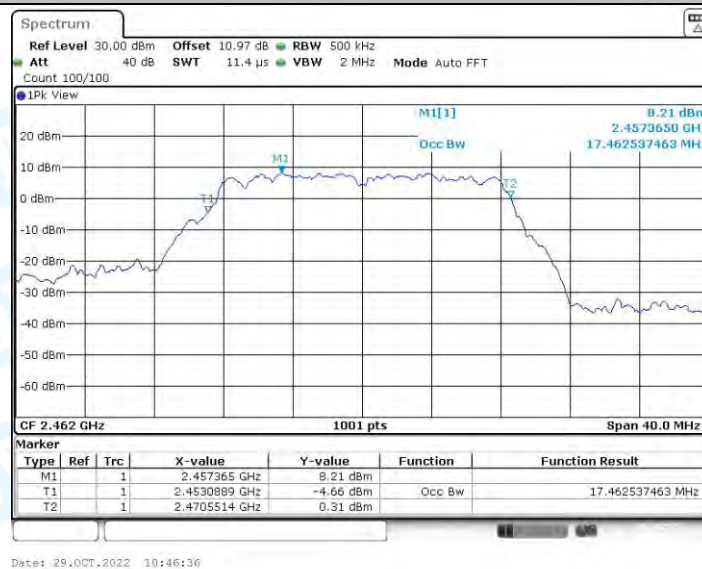
11G\_Ant1\_2437



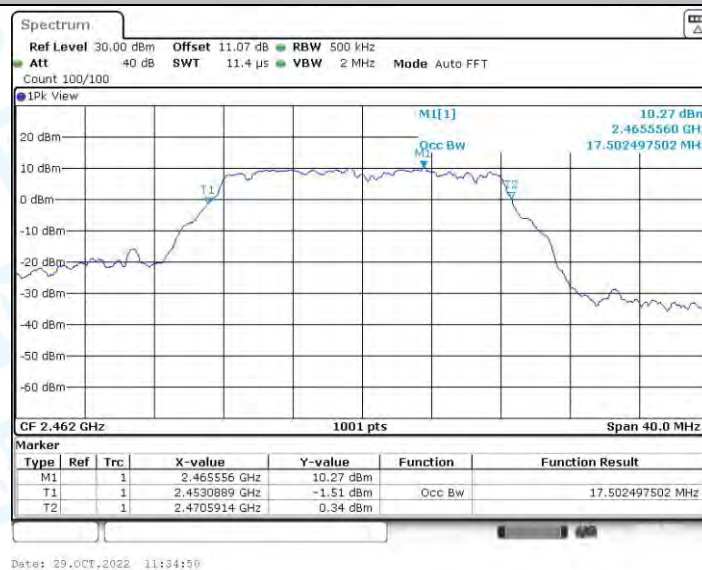
11G\_Ant2\_2437



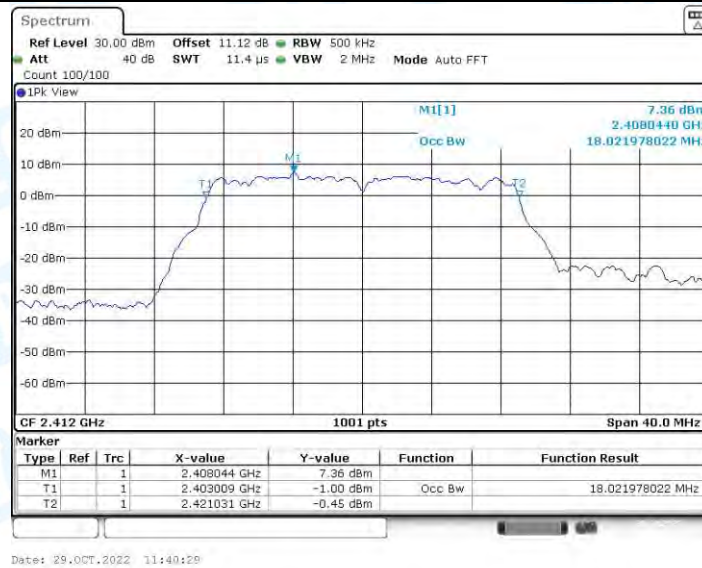
11G\_Ant1\_2462



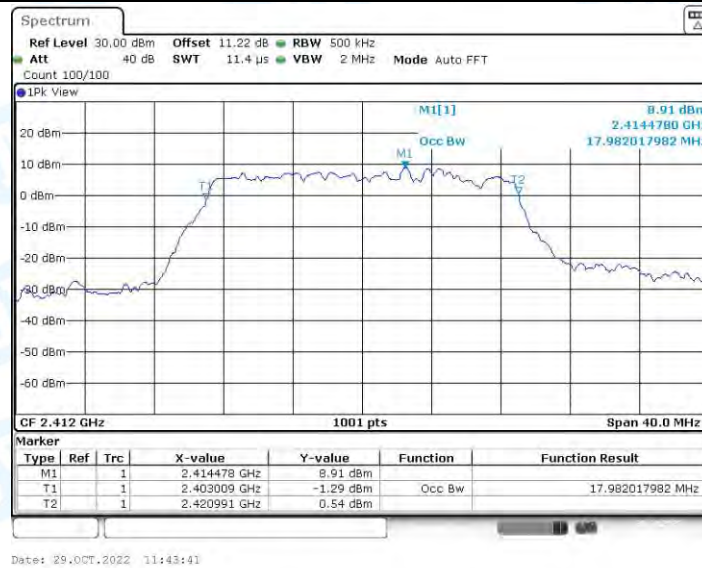
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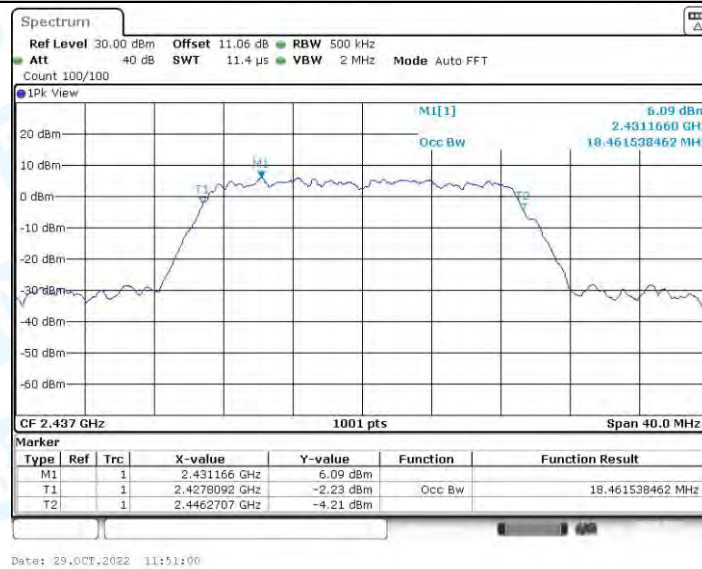
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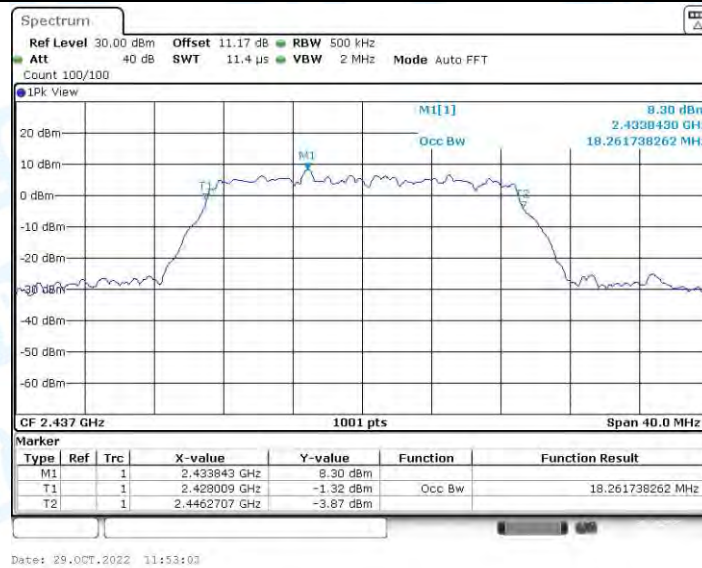
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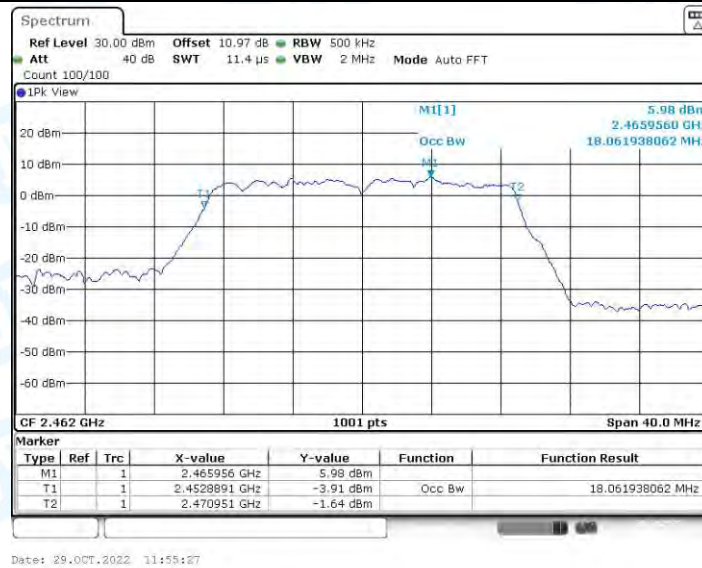
11N20MIMO\_Ant1\_2437



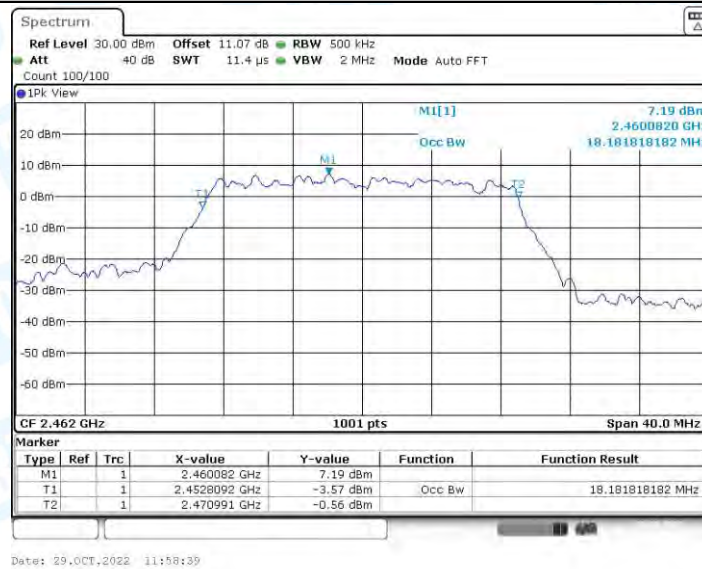
11N20MIMO\_Ant2\_2437



11N20MIMO\_Ant1\_2462



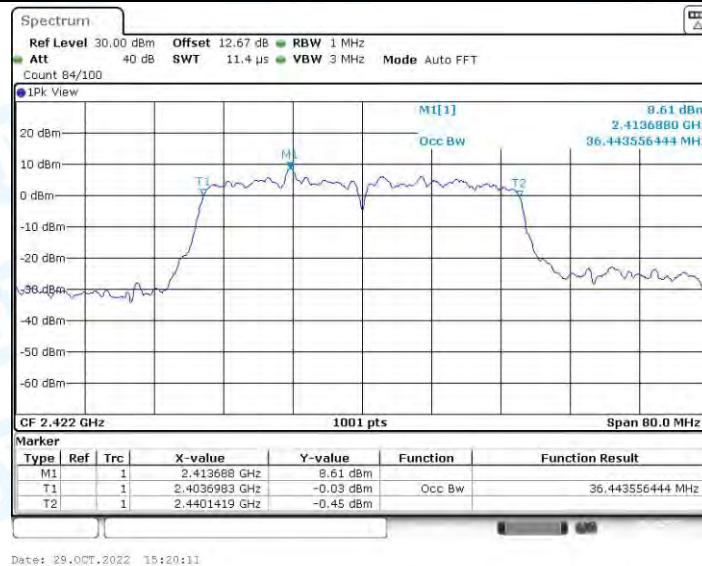
11N20MIMO\_Ant2\_2462



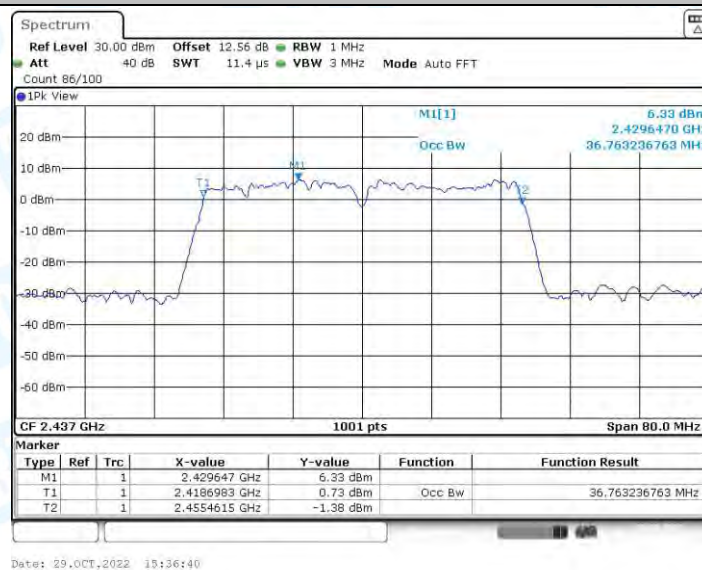
11N40MIMO\_Ant1\_2422



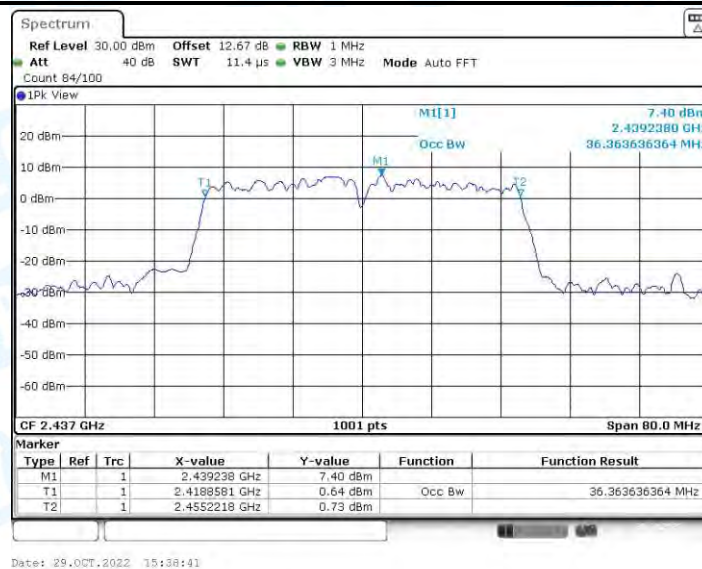
11N40MIMO\_Ant2\_2422



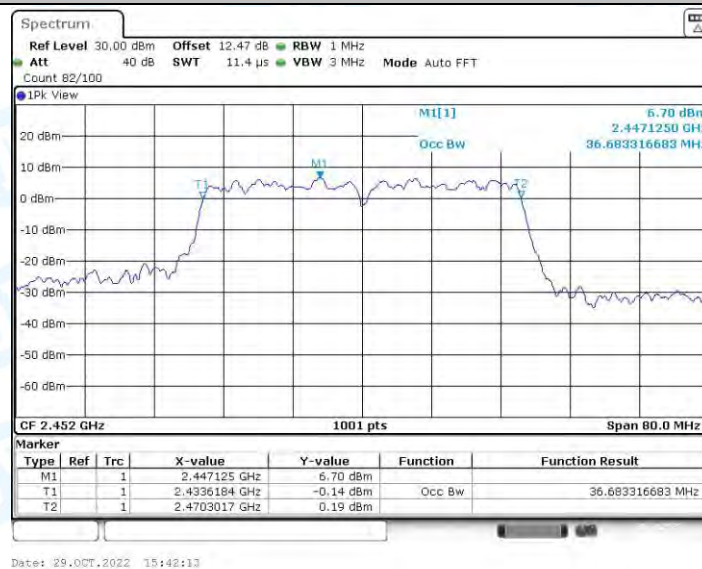
11N40MIMO\_Ant1\_2437



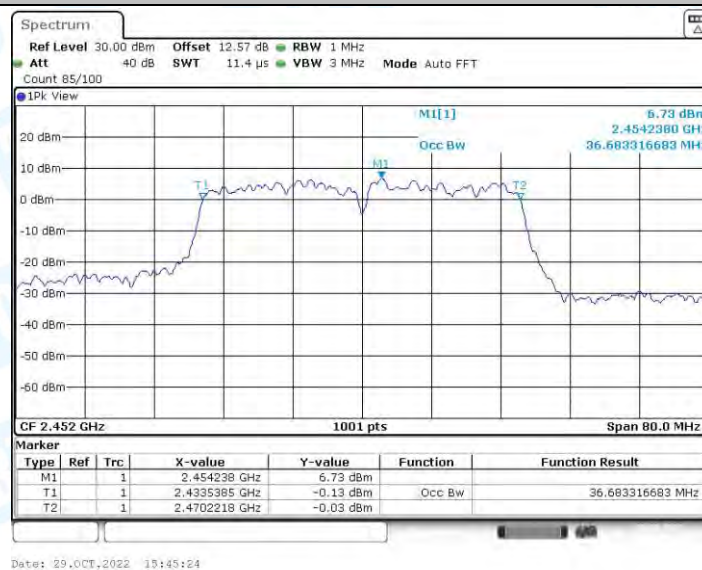
11N40MIMO\_Ant2\_2437



## 11N40MIMO\_Ant1\_2452



## 11N40MIMO\_Ant2\_2452



### 3. Maximum conducted output power

#### 3.1. Test Result

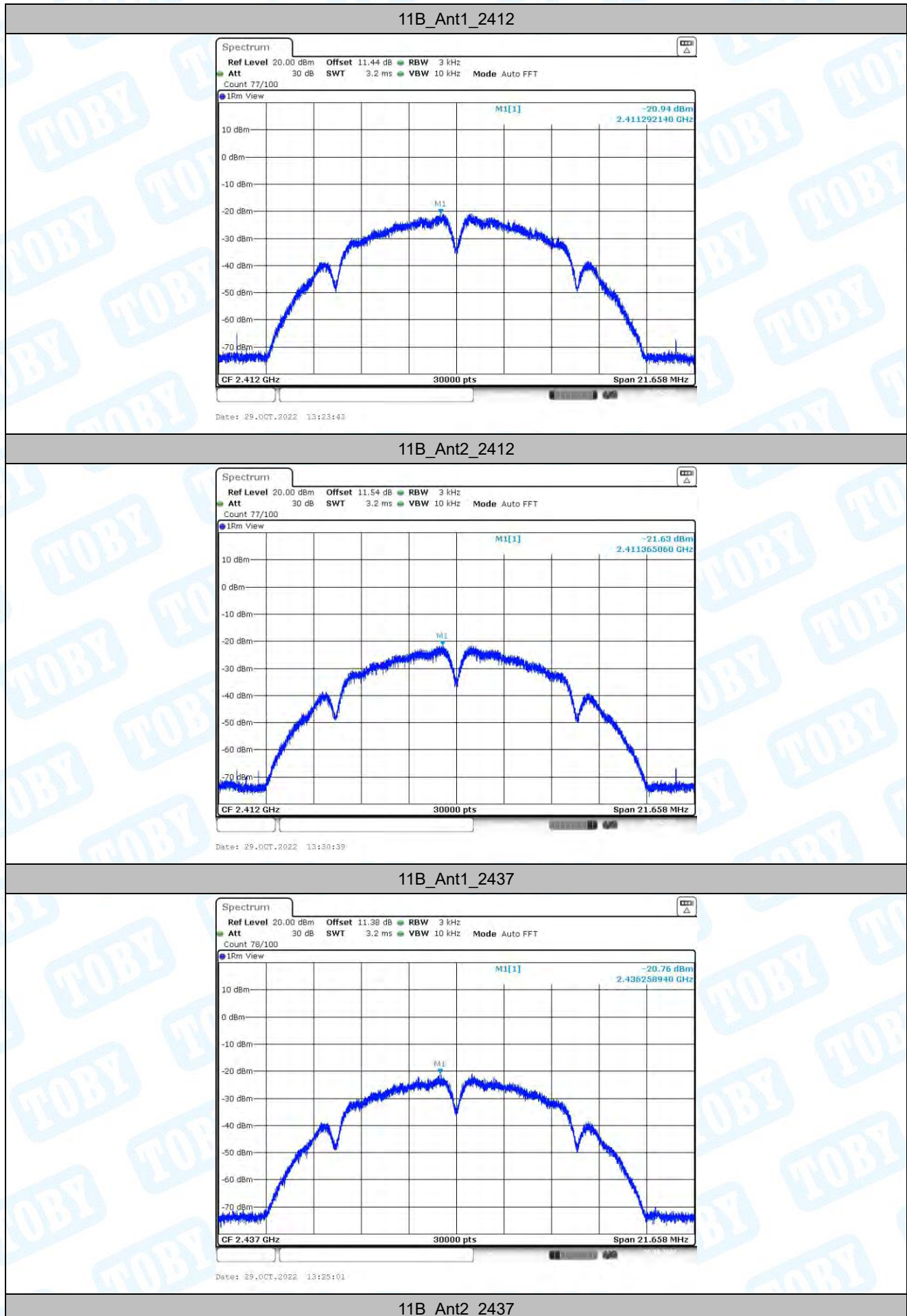
| TestMode  | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|-------------|------------|---------|
| 11B       | Ant1    | 2412    | 8.08        | ≤30.00     | PASS    |
|           | Ant2    | 2412    | 8.20        | ≤30.00     | PASS    |
|           | Ant1    | 2437    | 7.90        | ≤30.00     | PASS    |
|           | Ant2    | 2437    | 8.19        | ≤30.00     | PASS    |
|           | Ant1    | 2462    | 7.94        | ≤30.00     | PASS    |
|           | Ant2    | 2462    | 7.68        | ≤30.00     | PASS    |
| 11G       | Ant1    | 2412    | 7.15        | ≤30.00     | PASS    |
|           | Ant2    | 2412    | 7.70        | ≤30.00     | PASS    |
|           | Ant1    | 2437    | 7.24        | ≤30.00     | PASS    |
|           | Ant2    | 2437    | 7.61        | ≤30.00     | PASS    |
|           | Ant1    | 2462    | 7.10        | ≤30.00     | PASS    |
|           | Ant2    | 2462    | 7.56        | ≤30.00     | PASS    |
| 11N20MIMO | Ant1    | 2412    | 4.16        | ≤30.00     | PASS    |
|           | Ant2    | 2412    | 5.51        | ≤30.00     | PASS    |
|           | total   | 2412    | 7.90        | ≤30.00     | PASS    |
|           | Ant1    | 2437    | 3.87        | ≤30.00     | PASS    |
|           | Ant2    | 2437    | 5.65        | ≤30.00     | PASS    |
|           | total   | 2437    | 7.86        | ≤30.00     | PASS    |
|           | Ant1    | 2462    | 3.87        | ≤30.00     | PASS    |
|           | Ant2    | 2462    | 5.29        | ≤30.00     | PASS    |
|           | total   | 2462    | 7.65        | ≤30.00     | PASS    |
| 11N40MIMO | Ant1    | 2422    | 4.83        | ≤30.00     | PASS    |
|           | Ant2    | 2422    | 5.77        | ≤30.00     | PASS    |
|           | total   | 2422    | 8.34        | ≤30.00     | PASS    |
|           | Ant1    | 2437    | 5.22        | ≤30.00     | PASS    |
|           | Ant2    | 2437    | 6.31        | ≤30.00     | PASS    |
|           | total   | 2437    | 8.81        | ≤30.00     | PASS    |
|           | Ant1    | 2452    | 4.90        | ≤30.00     | PASS    |
|           | Ant2    | 2452    | 5.73        | ≤30.00     | PASS    |
|           | total   | 2452    | 8.35        | ≤30.00     | PASS    |

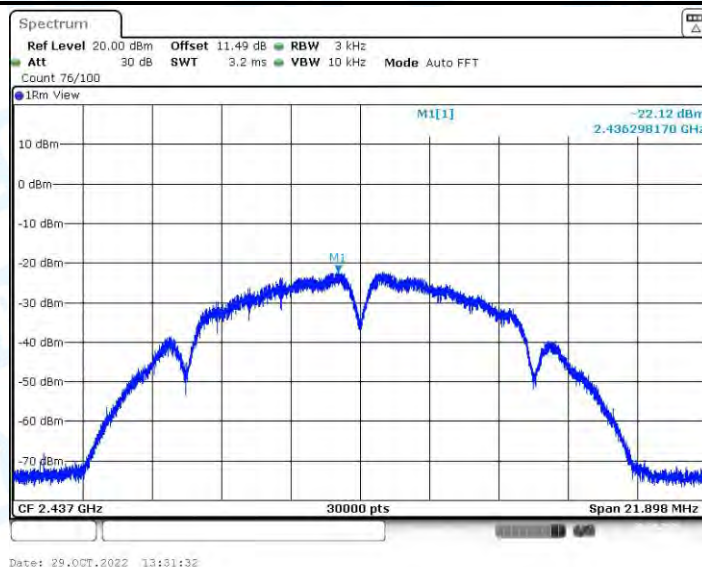
## 4. Maximum power spectral density

### 4.1. Test Result

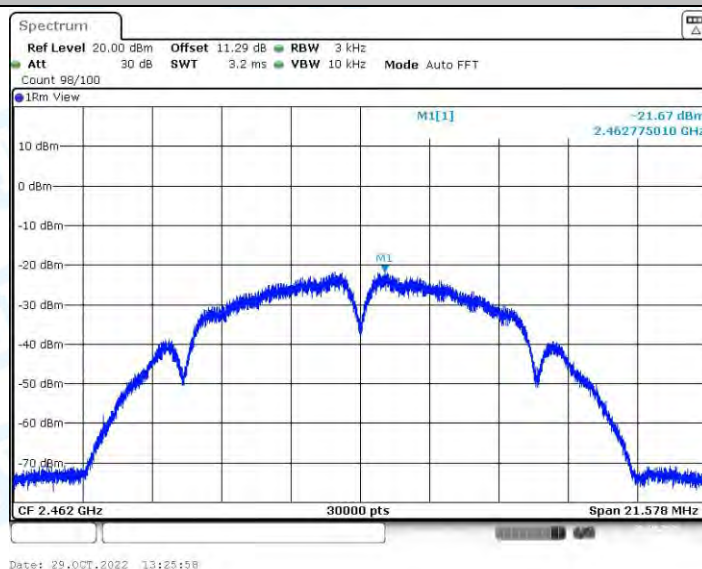
| TestMode  | Antenna | Channel | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|---------|----------------------|-----------------|---------|
| 11B       | Ant1    | 2412    | -20.94               | ≤8.00           | PASS    |
|           | Ant2    | 2412    | -21.63               | ≤8.00           | PASS    |
|           | Ant1    | 2437    | -20.76               | ≤8.00           | PASS    |
|           | Ant2    | 2437    | -22.12               | ≤8.00           | PASS    |
|           | Ant1    | 2462    | -21.67               | ≤8.00           | PASS    |
|           | Ant2    | 2462    | -22.09               | ≤8.00           | PASS    |
| 11G       | Ant1    | 2412    | -19.23               | ≤8.00           | PASS    |
|           | Ant2    | 2412    | -18.77               | ≤8.00           | PASS    |
|           | Ant1    | 2437    | -18.74               | ≤8.00           | PASS    |
|           | Ant2    | 2437    | -19.02               | ≤8.00           | PASS    |
|           | Ant1    | 2462    | -18.96               | ≤8.00           | PASS    |
|           | Ant2    | 2462    | -19.44               | ≤8.00           | PASS    |
| 11N20MIMO | Ant1    | 2412    | -24.2                | ≤8.00           | PASS    |
|           | Ant2    | 2412    | -22.32               | ≤8.00           | PASS    |
|           | total   | 2412    | -20.15               | ≤8.00           | PASS    |
|           | Ant1    | 2437    | -24.08               | ≤8.00           | PASS    |
|           | Ant2    | 2437    | -22.12               | ≤8.00           | PASS    |
|           | total   | 2437    | -19.98               | ≤8.00           | PASS    |
|           | Ant1    | 2462    | -24.04               | ≤8.00           | PASS    |
|           | Ant2    | 2462    | -21.73               | ≤8.00           | PASS    |
|           | total   | 2462    | -19.72               | ≤8.00           | PASS    |
| 11N40MIMO | Ant1    | 2422    | -24.84               | ≤8.00           | PASS    |
|           | Ant2    | 2422    | -24.74               | ≤8.00           | PASS    |
|           | total   | 2422    | -21.78               | ≤8.00           | PASS    |
|           | Ant1    | 2437    | -24.24               | ≤8.00           | PASS    |
|           | Ant2    | 2437    | -24.9                | ≤8.00           | PASS    |
|           | total   | 2437    | -21.55               | ≤8.00           | PASS    |
|           | Ant1    | 2452    | -24.44               | ≤8.00           | PASS    |
|           | Ant2    | 2452    | -24.78               | ≤8.00           | PASS    |
|           | total   | 2452    | -21.60               | ≤8.00           | PASS    |

## 4.2. Test Graphs

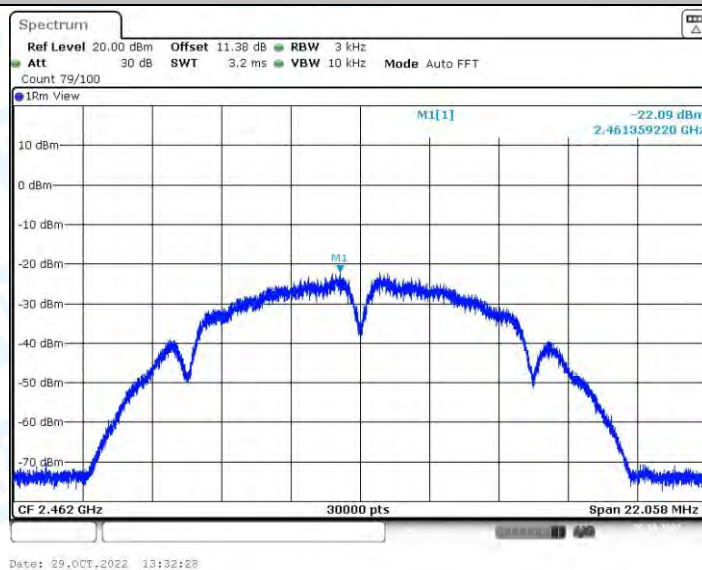




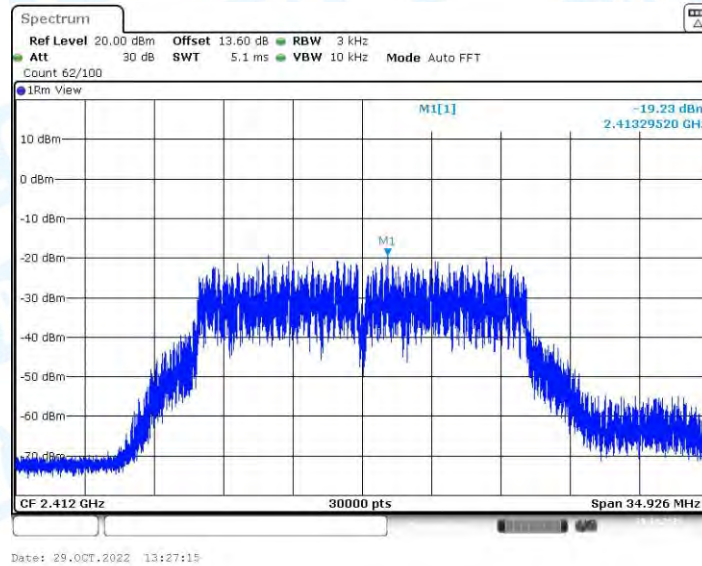
11B\_Ant1\_2462



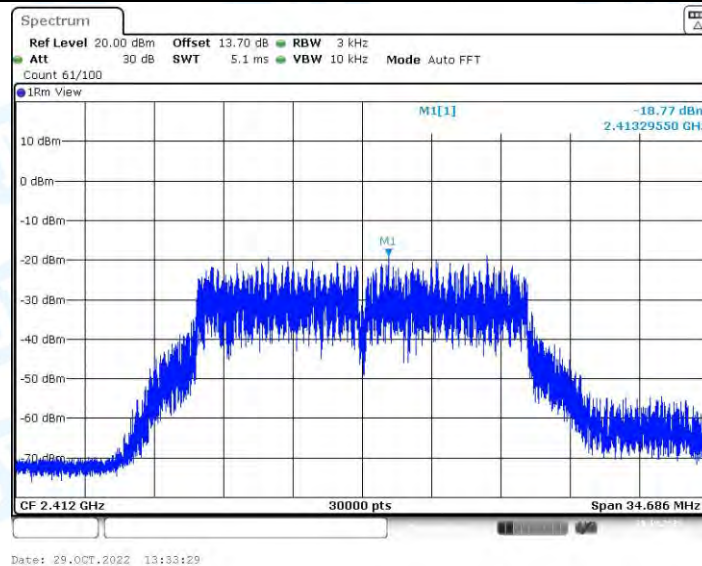
11B\_Ant2\_2462



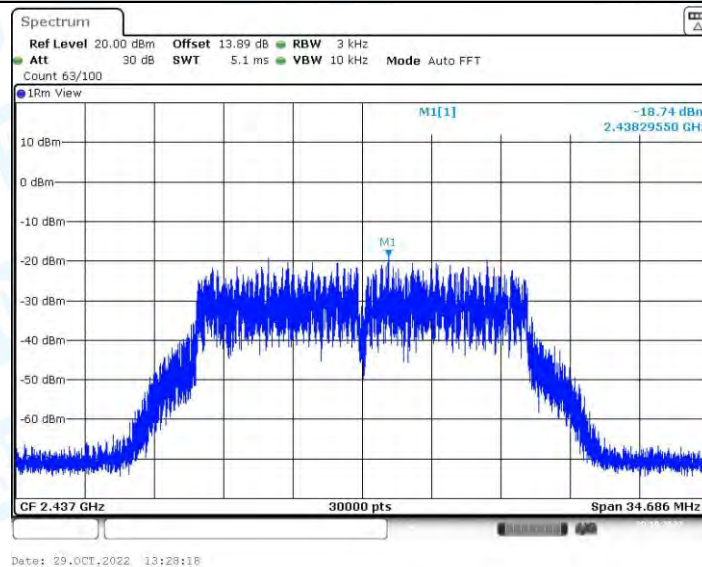
11G\_Ant1\_2412



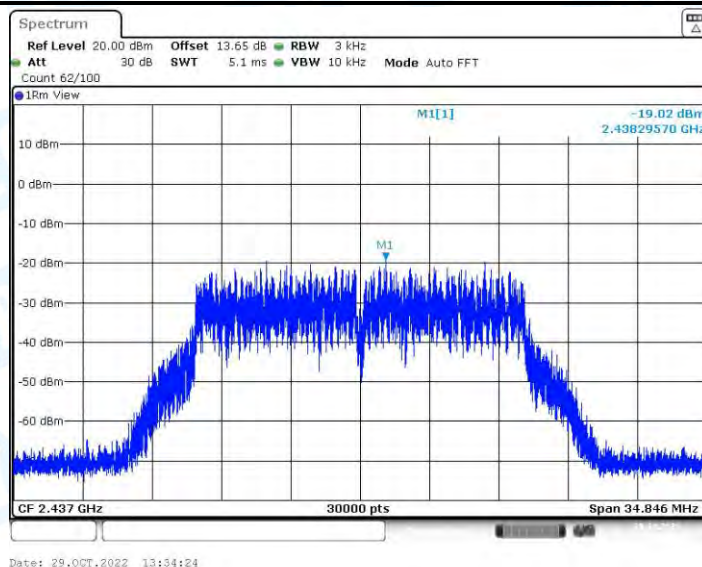
11G\_Ant2\_2412



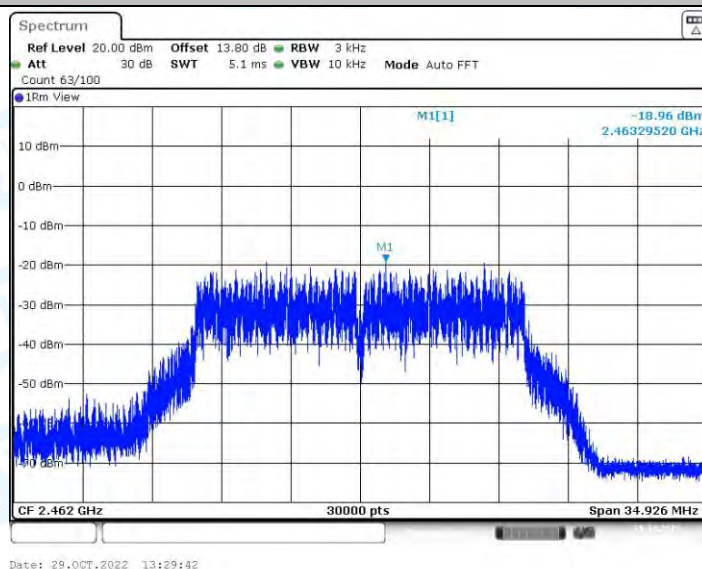
11G\_Ant1\_2437



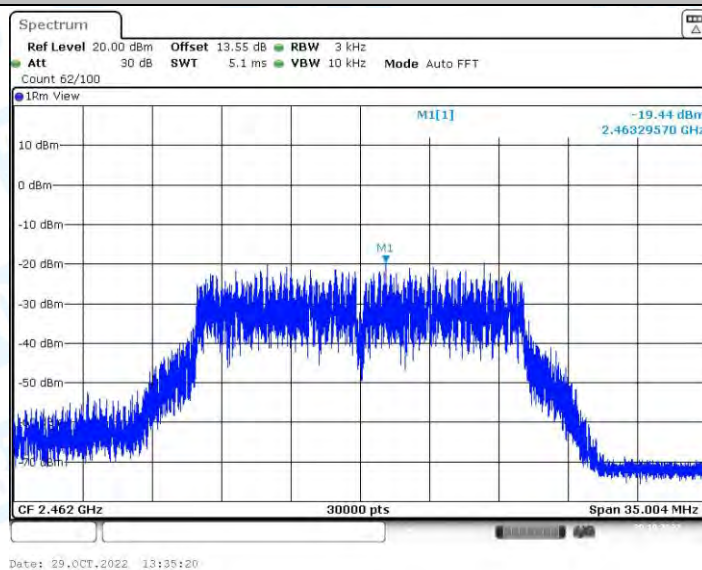
11G\_Ant2\_2437



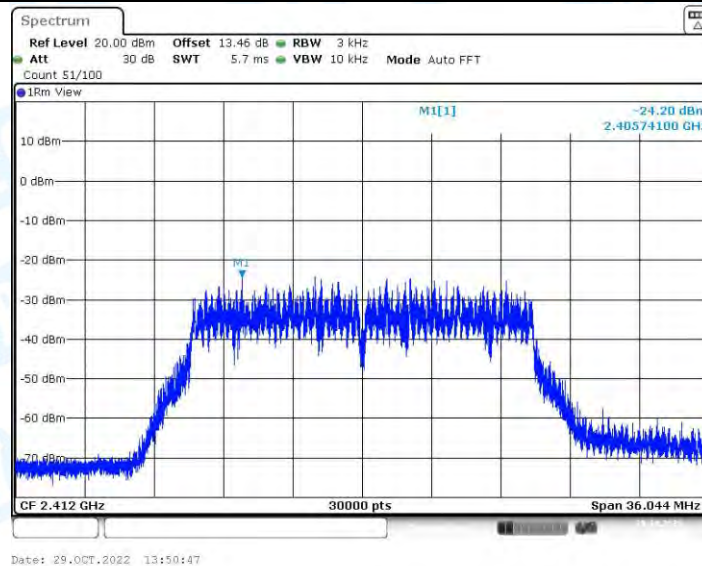
11G\_Ant1\_2462



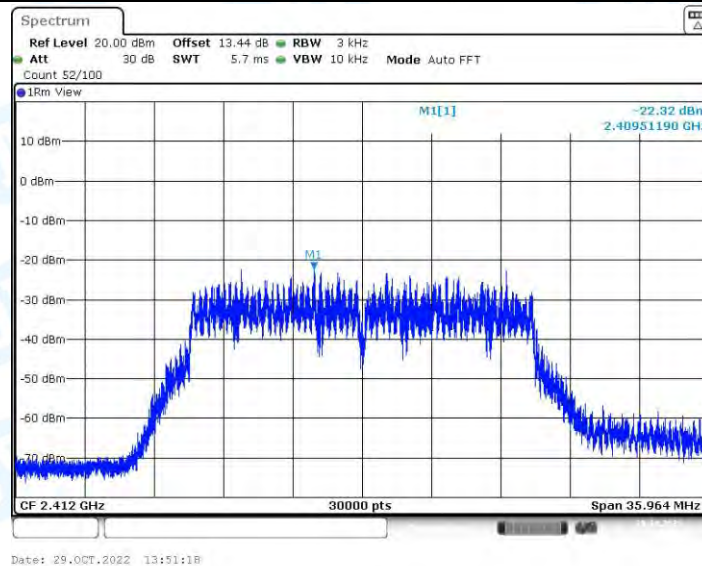
11G\_Ant2\_2462



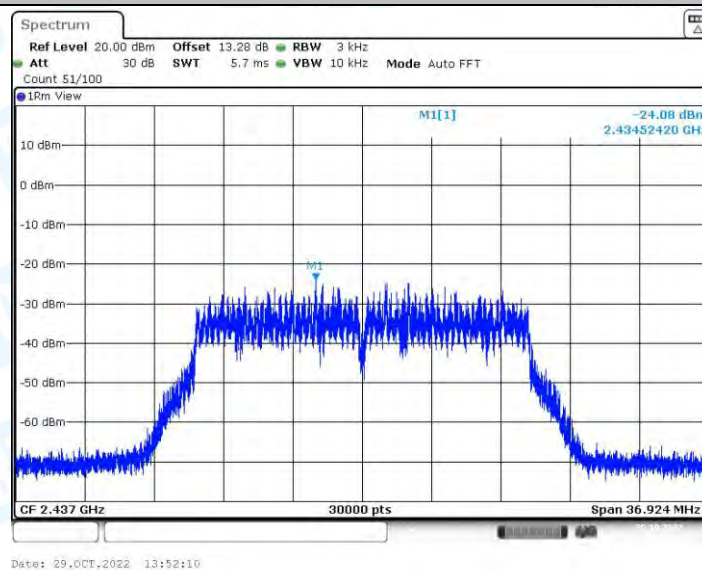
11N20MIMO\_Ant1\_2412



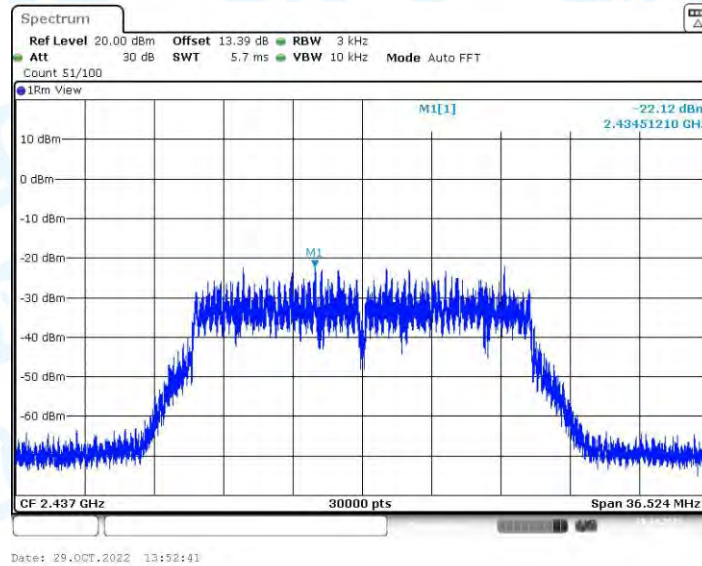
11N20MIMO\_Ant2\_2412



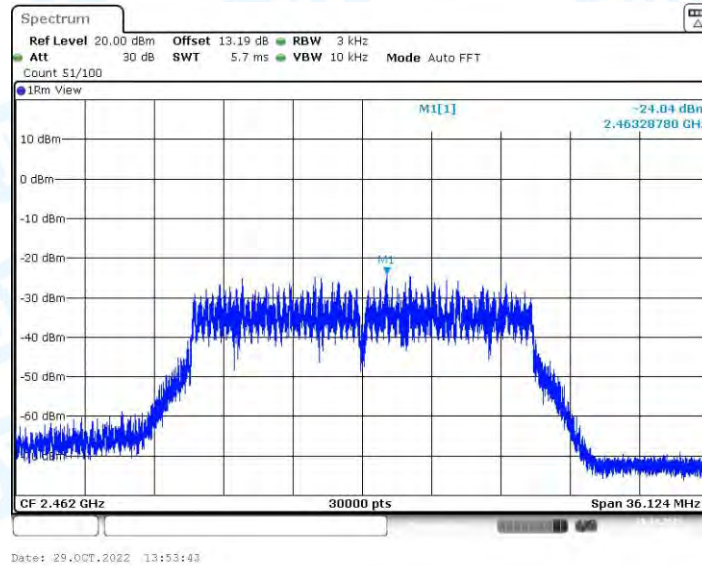
11N20MIMO\_Ant1\_2437



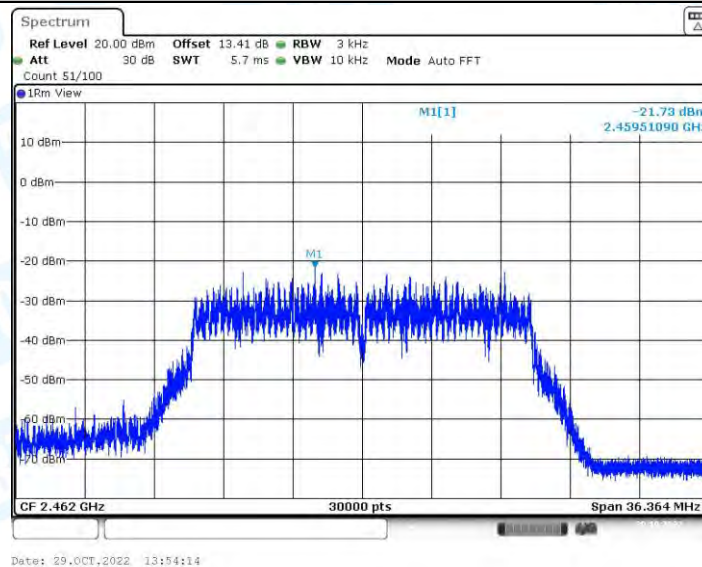
11N20MIMO\_Ant2\_2437



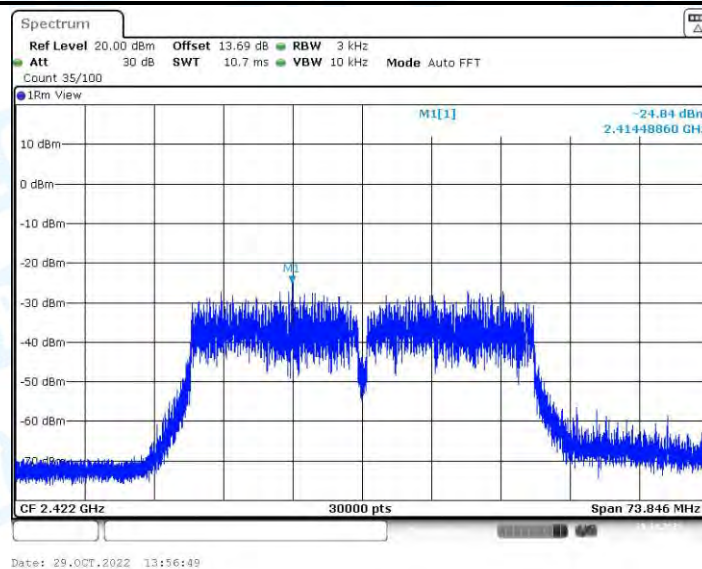
11N20MIMO\_Ant1\_2462



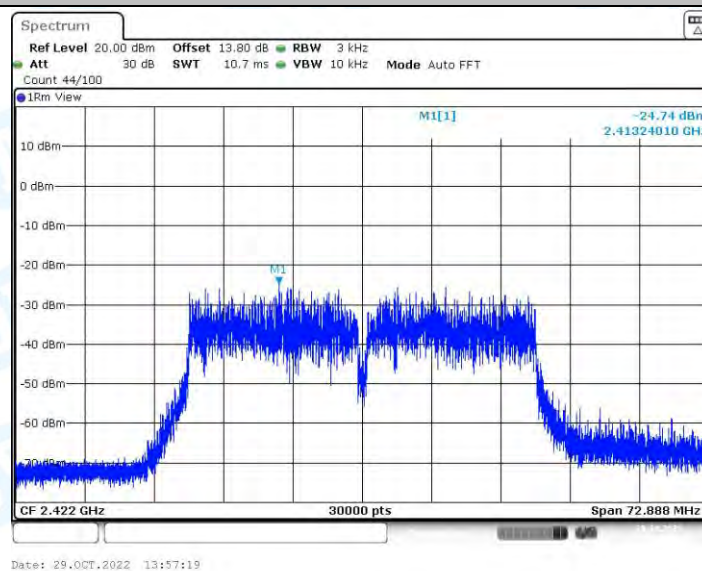
11N20MIMO\_Ant2\_2462



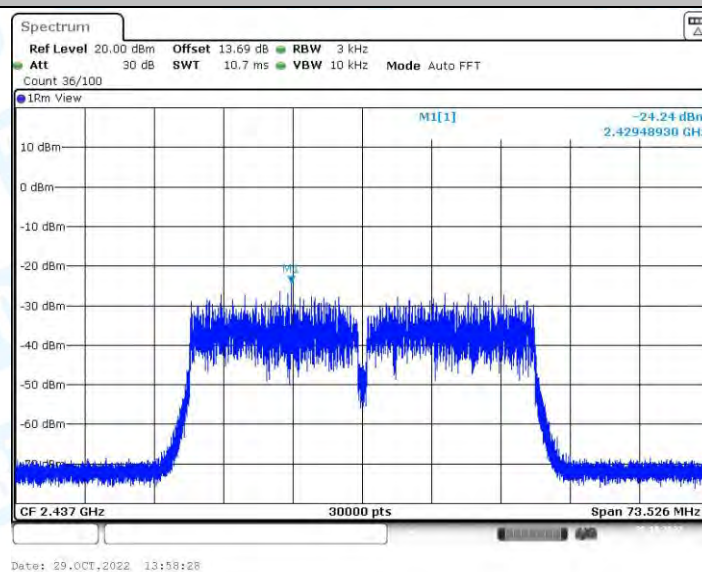
11N40MIMO\_Ant1\_2422



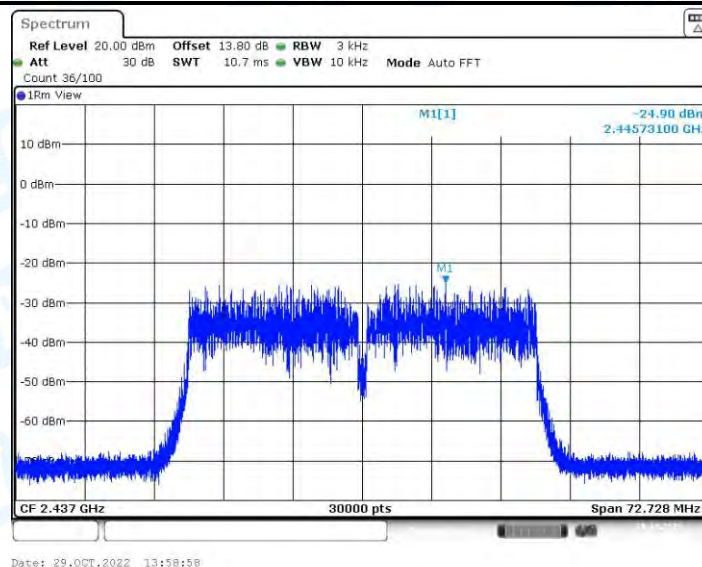
11N40MIMO\_Ant2\_2422



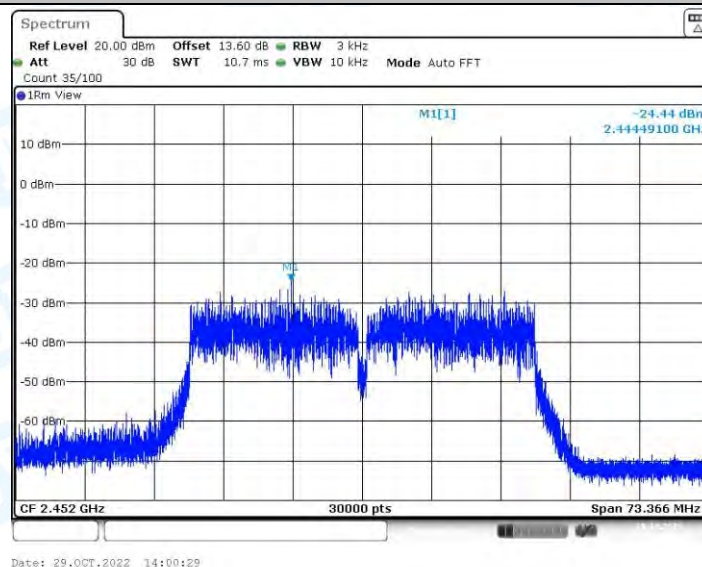
11N40MIMO\_Ant1\_2437



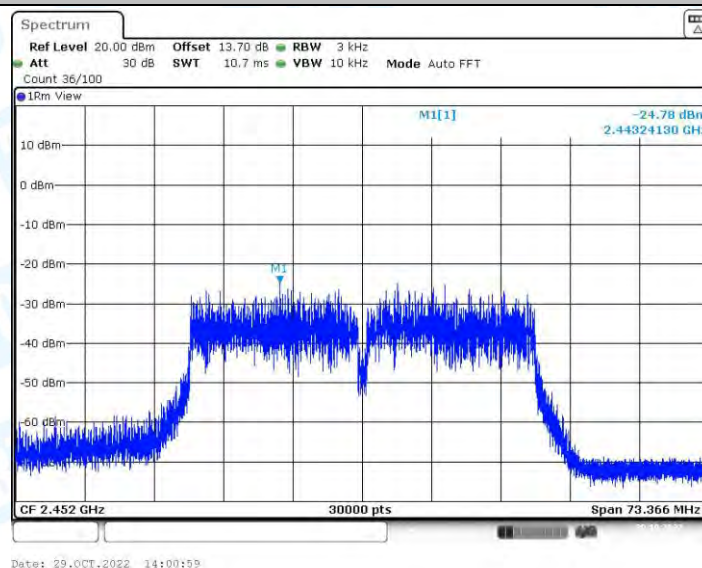
11N40MIMO\_Ant2\_2437



11N40MIMO\_Ant1\_2452



11N40MIMO\_Ant2\_2452



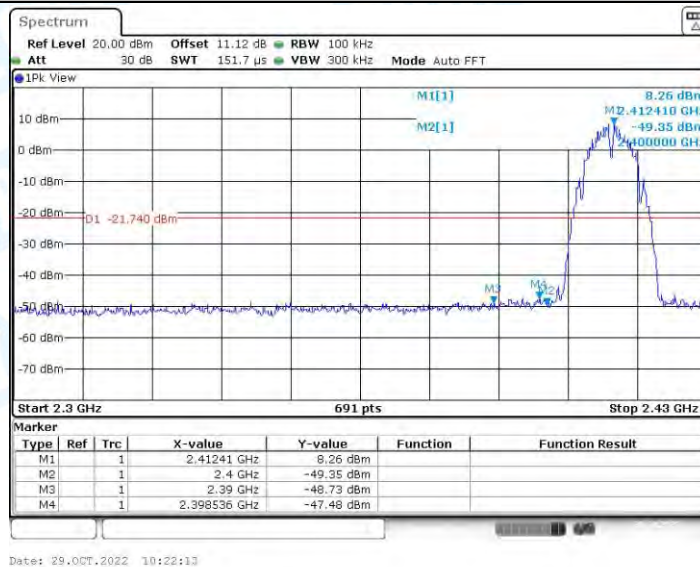
## 5. Band edge measurements

### 5.1. Test Result

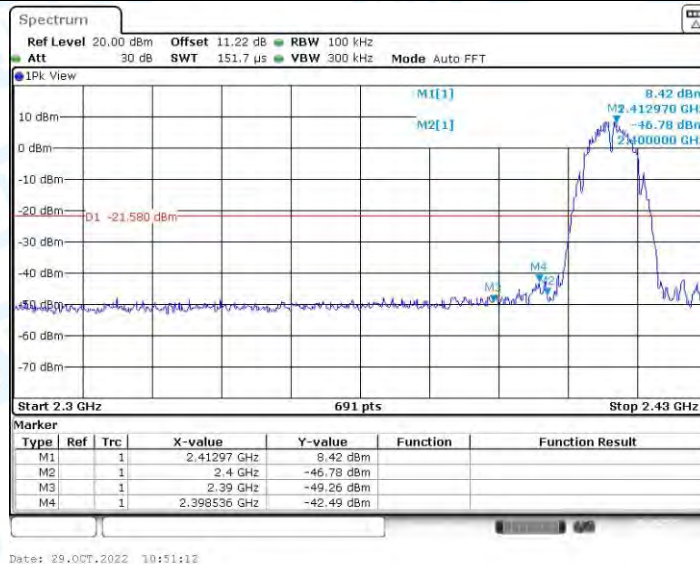
| TestMode  | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|-----------|---------|--------|---------|---------------|-------------|---------------|---------|
| 11B       | Ant1    | Low    | 2412    | 8.26          | -47.48      | $\leq -21.74$ | PASS    |
|           | Ant2    | Low    | 2412    | 8.42          | -42.49      | $\leq -21.58$ | PASS    |
|           | Ant1    | High   | 2462    | 6.82          | -46.57      | $\leq -23.18$ | PASS    |
|           | Ant2    | High   | 2462    | 11.70         | -43.17      | $\leq -18.3$  | PASS    |
| 11G       | Ant1    | Low    | 2412    | 5.77          | -39.81      | $\leq -24.23$ | PASS    |
|           | Ant2    | Low    | 2412    | 8.14          | -33.34      | $\leq -21.86$ | PASS    |
|           | Ant1    | High   | 2462    | 5.54          | -45.89      | $\leq -24.46$ | PASS    |
|           | Ant2    | High   | 2462    | 7.36          | -43.87      | $\leq -22.64$ | PASS    |
| 11N20MIMO | Ant1    | Low    | 2412    | 4.31          | -41.44      | $\leq -25.69$ | PASS    |
|           | Ant2    | Low    | 2412    | 5.07          | -34.15      | $\leq -24.93$ | PASS    |
|           | Ant1    | High   | 2462    | 2.37          | -47.03      | $\leq -27.63$ | PASS    |
|           | Ant2    | High   | 2462    | 3.53          | -41.4       | $\leq -26.47$ | PASS    |
| 11N40MIMO | Ant1    | Low    | 2422    | -5.87         | -41.8       | $\leq -35.87$ | PASS    |
|           | Ant2    | Low    | 2422    | -5.01         | -44         | $\leq -35.01$ | PASS    |
|           | Ant1    | High   | 2452    | -5.56         | -46.12      | $\leq -35.56$ | PASS    |
|           | Ant2    | High   | 2452    | -6.44         | -46.42      | $\leq -36.44$ | PASS    |

## 5.2. Test Graphs

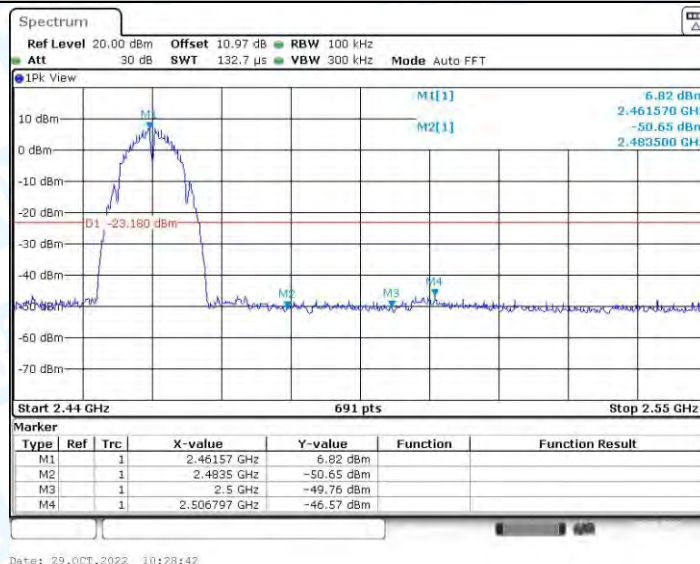
11B\_Ant1\_Low\_2412



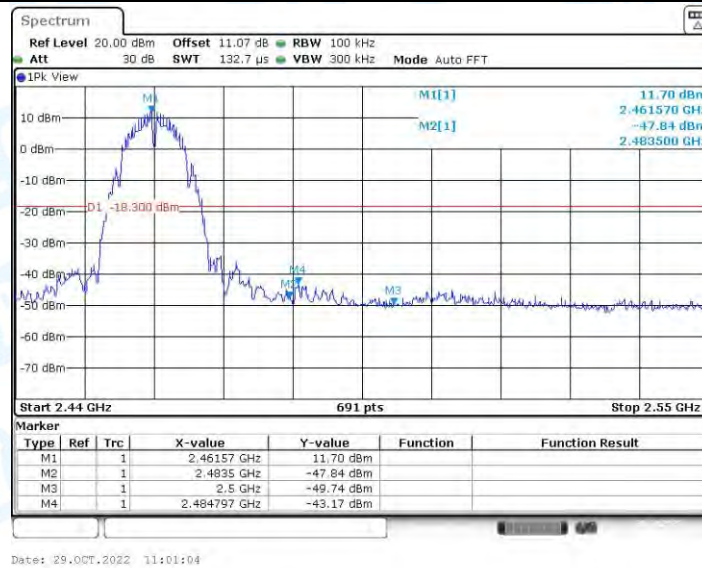
11B\_Ant2\_Low\_2412



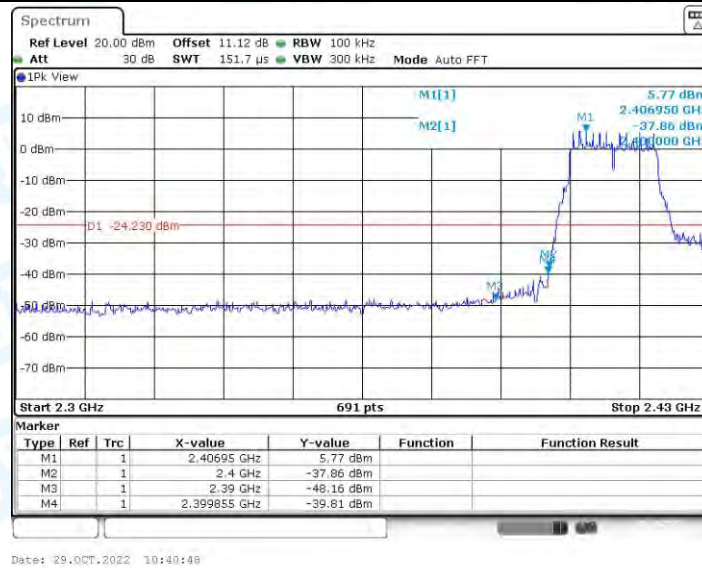
11B\_Ant1\_High\_2462



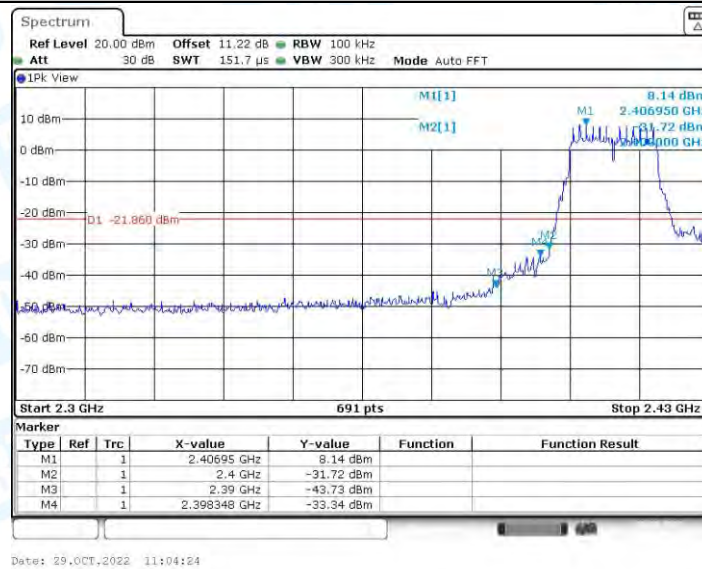
11B\_Ant2\_High\_2462



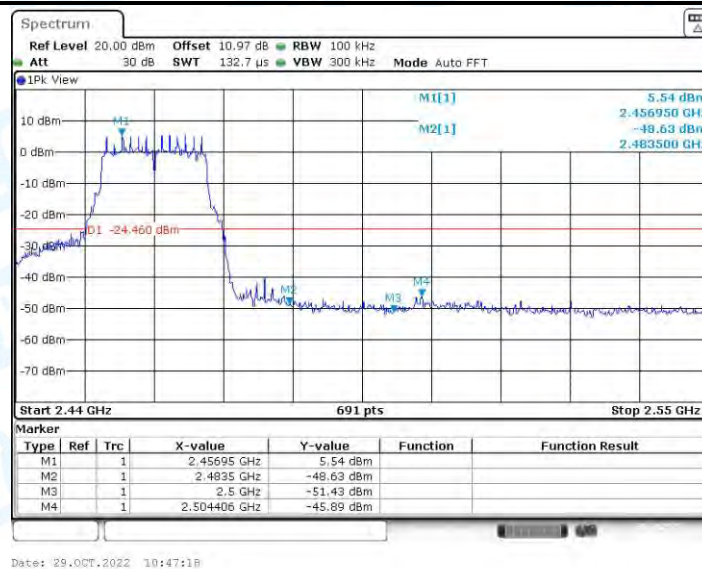
## 11G\_Ant1\_Low\_2412



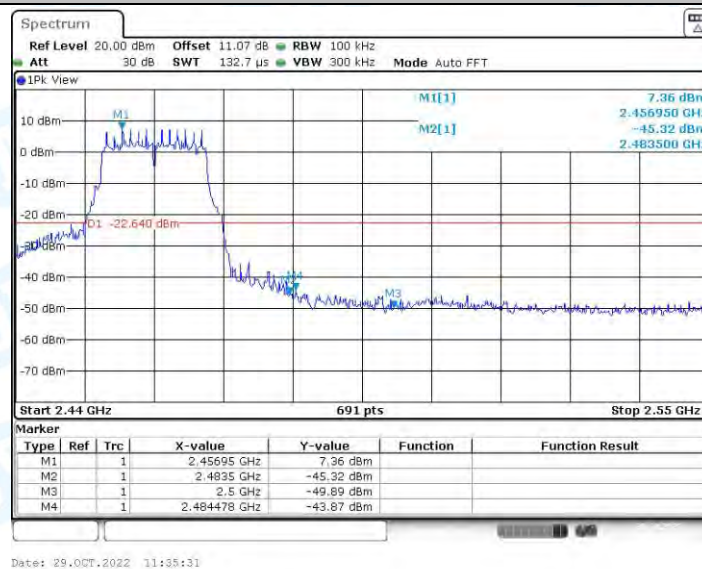
## 11G\_Ant2\_Low\_2412



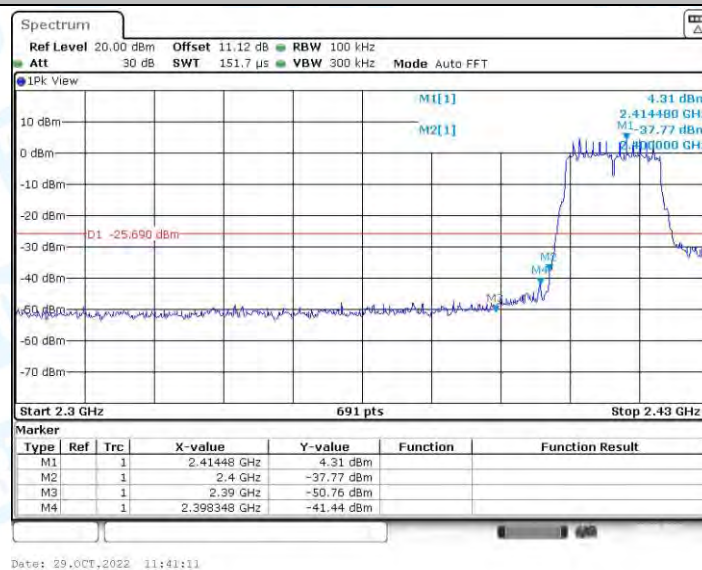
## 11G\_Ant1\_High\_2462



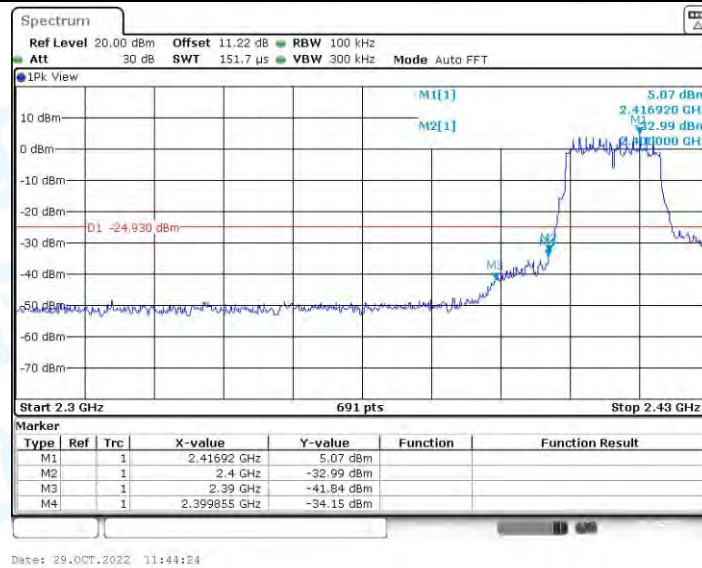
11G\_Ant2\_High\_2462



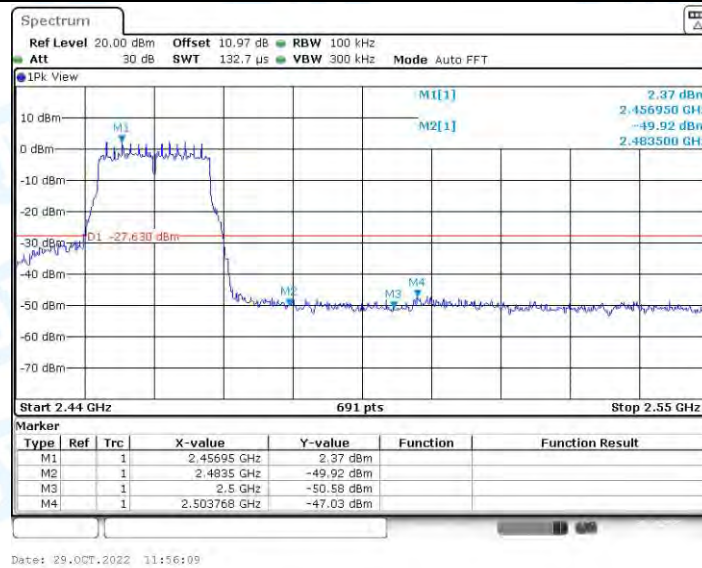
11N20MIMO\_Ant1\_Low\_2412



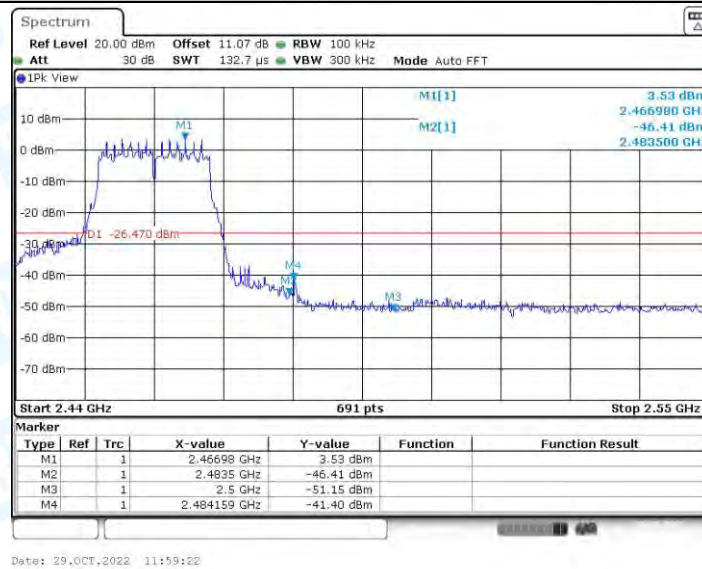
11N20MIMO\_Ant2\_Low\_2412



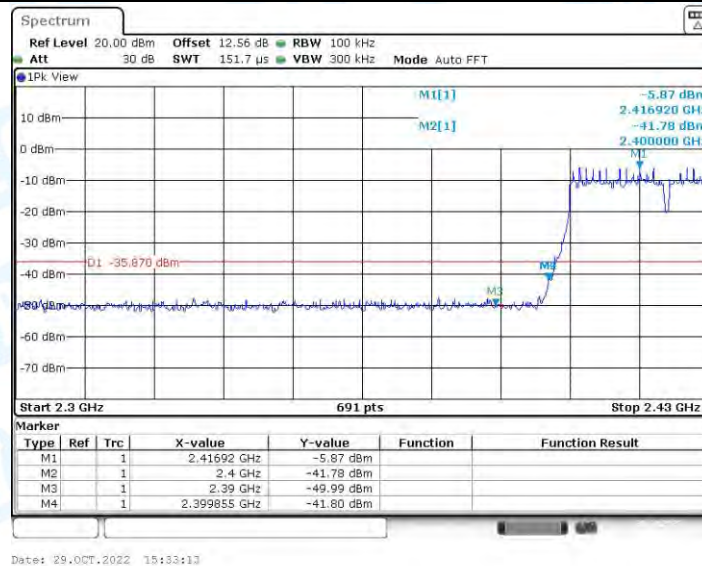
## 11N20MIMO\_Ant1\_High\_2462



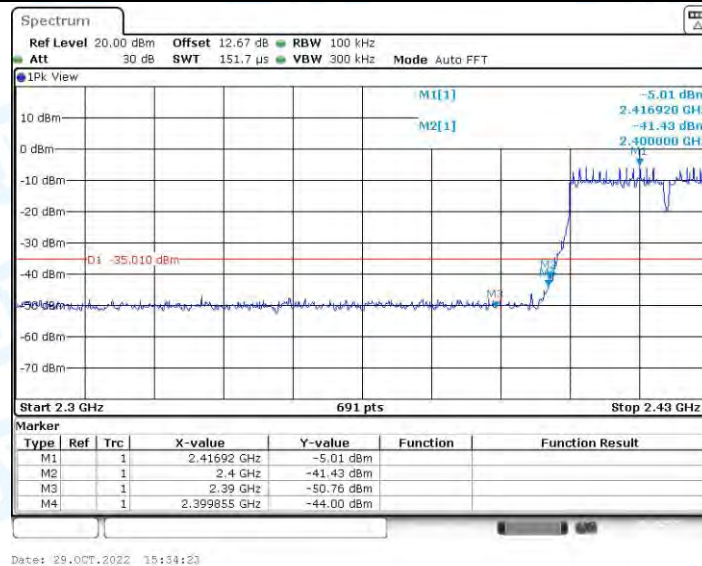
## 11N20MIMO\_Ant2\_High\_2462



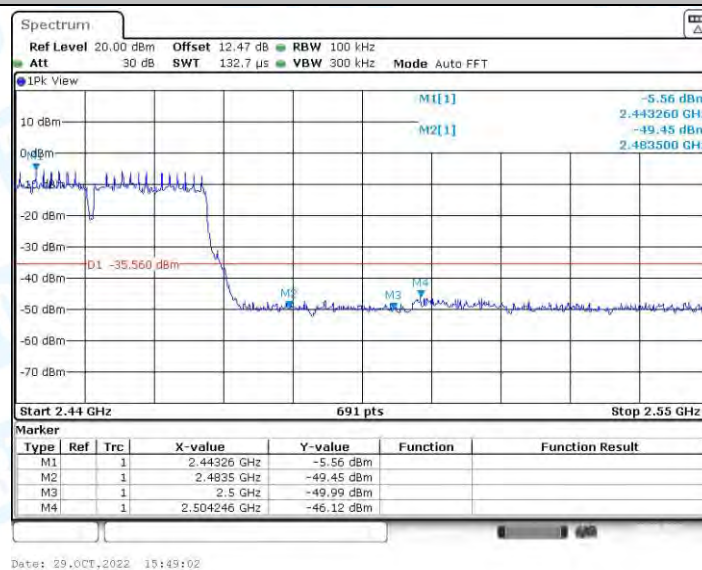
## 11N40MIMO\_Ant1\_Low\_2422



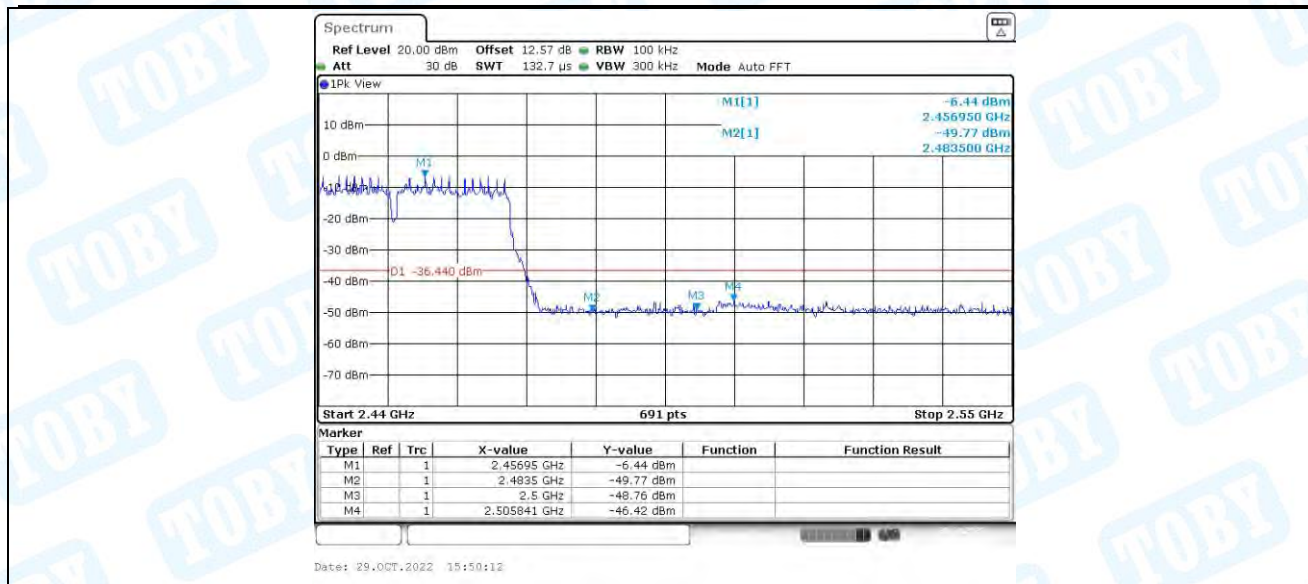
11N40MIMO\_Ant2\_Low\_2422



11N40MIMO\_Ant1\_High\_2452



11N40MIMO\_Ant2\_High\_2452



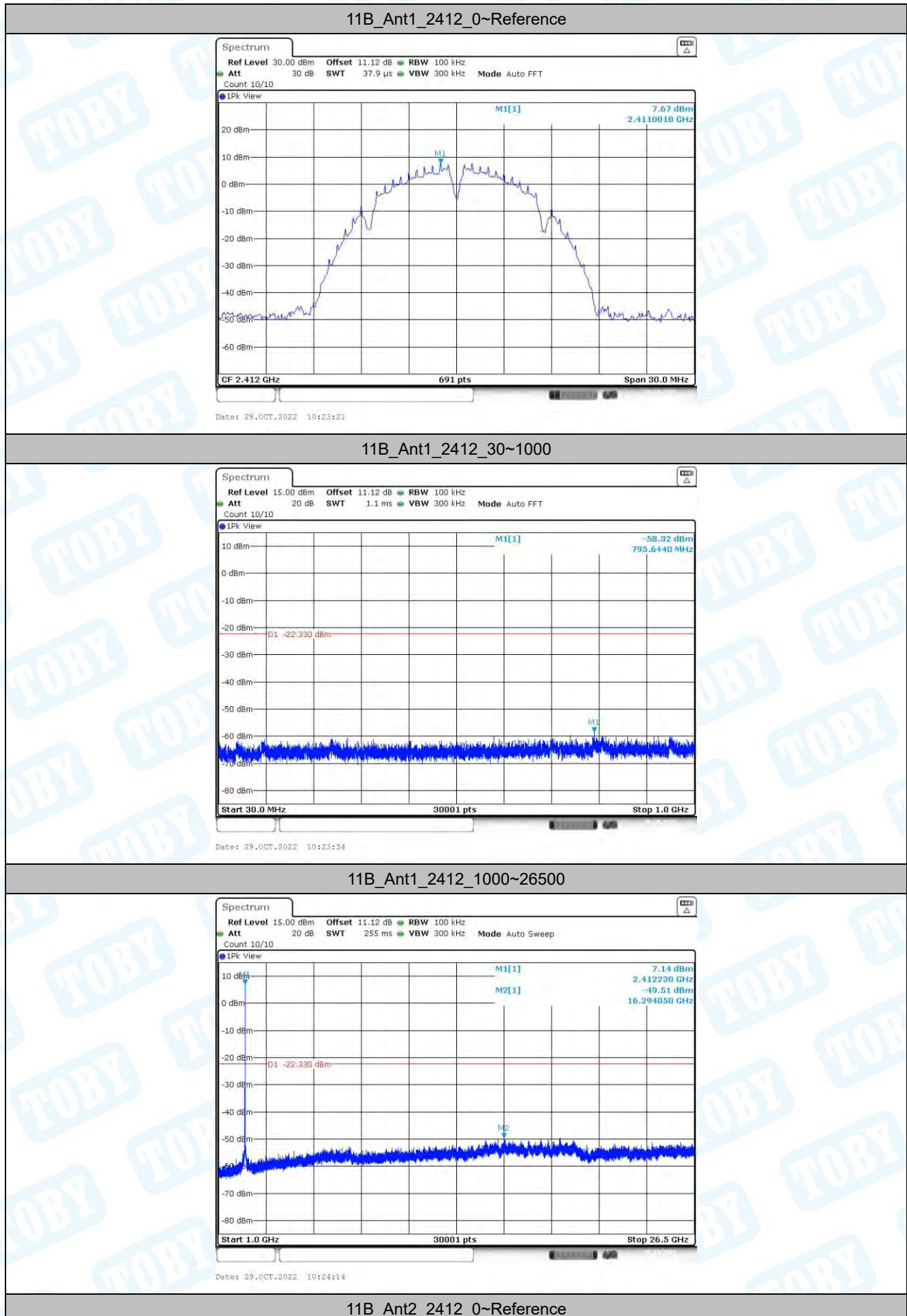
## 6. Conducted Spurious Emission

### 6.1. Test Result

| TestMode  | Antenna | Channel | FreqRange<br>[Mhz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|-----------|---------|---------|--------------------|-------------------|-----------------|----------------|---------|
| 11B       | Ant1    | 2412    | Reference          | 7.67              | 7.67            | ---            | PASS    |
|           |         |         | 30~1000            | 7.67              | -58.32          | ≤-22.33        | PASS    |
|           |         |         | 1000~26500         | 7.67              | -49.51          | ≤-22.33        | PASS    |
|           | Ant2    | 2412    | Reference          | 9.49              | 9.49            | ---            | PASS    |
|           |         |         | 30~1000            | 9.49              | -57.86          | ≤-20.51        | PASS    |
|           |         |         | 1000~26500         | 9.49              | -48.82          | ≤-20.51        | PASS    |
|           | Ant1    | 2437    | Reference          | 8.01              | 8.01            | ---            | PASS    |
|           |         |         | 30~1000            | 8.01              | -59.1           | ≤-21.99        | PASS    |
|           |         |         | 1000~26500         | 8.01              | -49.04          | ≤-21.99        | PASS    |
|           | Ant2    | 2437    | Reference          | 11.35             | 11.35           | ---            | PASS    |
|           |         |         | 30~1000            | 11.35             | -59.12          | ≤-18.65        | PASS    |
|           |         |         | 1000~26500         | 11.35             | -47.28          | ≤-18.65        | PASS    |
|           | Ant1    | 2462    | Reference          | 7.36              | 7.36            | ---            | PASS    |
|           |         |         | 30~1000            | 7.36              | -59.15          | ≤-22.64        | PASS    |
|           |         |         | 1000~26500         | 7.36              | -48.39          | ≤-22.64        | PASS    |
|           | Ant2    | 2462    | Reference          | 10.79             | 10.79           | ---            | PASS    |
|           |         |         | 30~1000            | 10.79             | -59.11          | ≤-19.21        | PASS    |
|           |         |         | 1000~26500         | 10.79             | -46.58          | ≤-19.21        | PASS    |
| 11G       | Ant1    | 2412    | Reference          | 5.88              | 5.88            | ---            | PASS    |
|           |         |         | 30~1000            | 5.88              | -59.76          | ≤-24.12        | PASS    |
|           |         |         | 1000~26500         | 5.88              | -50.09          | ≤-24.12        | PASS    |
|           | Ant2    | 2412    | Reference          | 5.81              | 5.81            | ---            | PASS    |
|           |         |         | 30~1000            | 5.81              | -58.48          | ≤-24.19        | PASS    |
|           |         |         | 1000~26500         | 5.81              | -50.27          | ≤-24.19        | PASS    |
|           | Ant1    | 2437    | Reference          | 5.57              | 5.57            | ---            | PASS    |
|           |         |         | 30~1000            | 5.57              | -59.28          | ≤-24.43        | PASS    |
|           |         |         | 1000~26500         | 5.57              | -48.84          | ≤-24.43        | PASS    |
|           | Ant2    | 2437    | Reference          | 7.58              | 7.58            | ---            | PASS    |
|           |         |         | 30~1000            | 7.58              | -58.7           | ≤-22.42        | PASS    |
|           |         |         | 1000~26500         | 7.58              | -50.03          | ≤-22.42        | PASS    |
|           | Ant1    | 2462    | Reference          | 5.60              | 5.60            | ---            | PASS    |
|           |         |         | 30~1000            | 5.60              | -59.2           | ≤-24.4         | PASS    |
|           |         |         | 1000~26500         | 5.60              | -49.88          | ≤-24.4         | PASS    |
|           | Ant2    | 2462    | Reference          | 7.47              | 7.47            | ---            | PASS    |
|           |         |         | 30~1000            | 7.47              | -59.21          | ≤-22.53        | PASS    |
|           |         |         | 1000~26500         | 7.47              | -49.88          | ≤-22.53        | PASS    |
| 11N20MIMO | Ant1    | 2412    | Reference          | 4.45              | 4.45            | ---            | PASS    |
|           |         |         | 30~1000            | 4.45              | -59.33          | ≤-25.55        | PASS    |
|           |         |         | 1000~26500         | 4.45              | -49.98          | ≤-25.55        | PASS    |
|           | Ant2    | 2412    | Reference          | 3.78              | 3.78            | ---            | PASS    |
|           |         |         | 30~1000            | 3.78              | -58.55          | ≤-26.22        | PASS    |

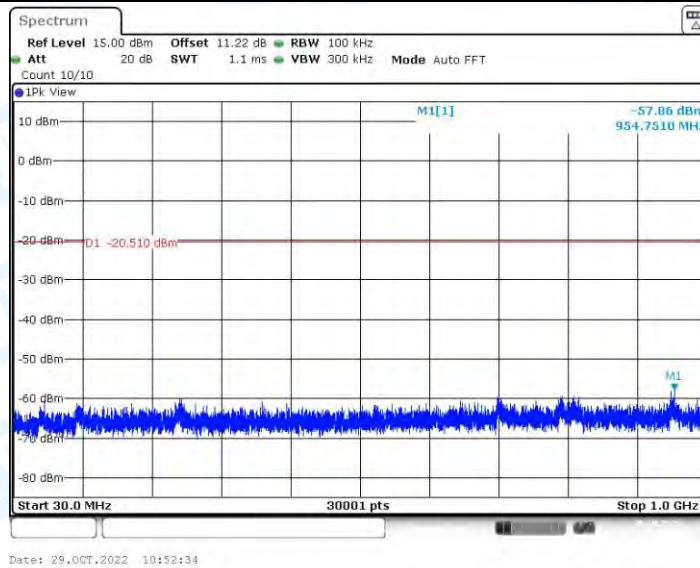
|           |      |      |            |      |        |               |      |
|-----------|------|------|------------|------|--------|---------------|------|
|           | Ant1 | 2437 | 1000~26500 | 3.78 | -49.78 | $\leq -26.22$ | PASS |
|           |      |      | Reference  | 3.18 | 3.18   | ---           | PASS |
|           |      |      | 30~1000    | 3.18 | -58.89 | $\leq -26.82$ | PASS |
|           |      |      | 1000~26500 | 3.18 | -49.71 | $\leq -26.82$ | PASS |
|           | Ant2 | 2437 | Reference  | 4.06 | 4.06   | ---           | PASS |
|           |      |      | 30~1000    | 4.06 | -58.44 | $\leq -25.94$ | PASS |
|           |      |      | 1000~26500 | 4.06 | -49.75 | $\leq -25.94$ | PASS |
|           | Ant1 | 2462 | Reference  | 3.03 | 3.03   | ---           | PASS |
|           |      |      | 30~1000    | 3.03 | -59.43 | $\leq -26.97$ | PASS |
|           |      |      | 1000~26500 | 3.03 | -49.95 | $\leq -26.97$ | PASS |
|           | Ant2 | 2462 | Reference  | 3.59 | 3.59   | ---           | PASS |
|           |      |      | 30~1000    | 3.59 | -59.38 | $\leq -26.41$ | PASS |
|           |      |      | 1000~26500 | 3.59 | -49.65 | $\leq -26.41$ | PASS |
| 11N40MIMO | Ant1 | 2422 | Reference  | 0.65 | 0.65   | ---           | PASS |
|           |      |      | 30~1000    | 0.65 | -58.13 | $\leq -29.35$ | PASS |
|           |      |      | 1000~26500 | 0.65 | -48.37 | $\leq -29.35$ | PASS |
|           | Ant2 | 2422 | Reference  | 0.38 | 0.38   | ---           | PASS |
|           |      |      | 30~1000    | 0.38 | -57.54 | $\leq -29.62$ | PASS |
|           |      |      | 1000~26500 | 0.38 | -47.94 | $\leq -29.62$ | PASS |
|           | Ant1 | 2437 | Reference  | 0.44 | 0.44   | ---           | PASS |
|           |      |      | 30~1000    | 0.44 | -57.24 | $\leq -29.56$ | PASS |
|           |      |      | 1000~26500 | 0.44 | -48.72 | $\leq -29.56$ | PASS |
|           | Ant2 | 2437 | Reference  | 0.29 | 0.29   | ---           | PASS |
|           |      |      | 30~1000    | 0.29 | -57.78 | $\leq -29.71$ | PASS |
|           |      |      | 1000~26500 | 0.29 | -47.37 | $\leq -29.71$ | PASS |
|           | Ant1 | 2452 | Reference  | 0.36 | 0.36   | ---           | PASS |
|           |      |      | 30~1000    | 0.36 | -58.17 | $\leq -29.64$ | PASS |
|           |      |      | 1000~26500 | 0.36 | -48.49 | $\leq -29.64$ | PASS |
|           | Ant2 | 2452 | Reference  | 0.07 | 0.07   | ---           | PASS |
|           |      |      | 30~1000    | 0.07 | -56.66 | $\leq -29.93$ | PASS |
|           |      |      | 1000~26500 | 0.07 | -48.64 | $\leq -29.93$ | PASS |

## 6.2. Test Graphs

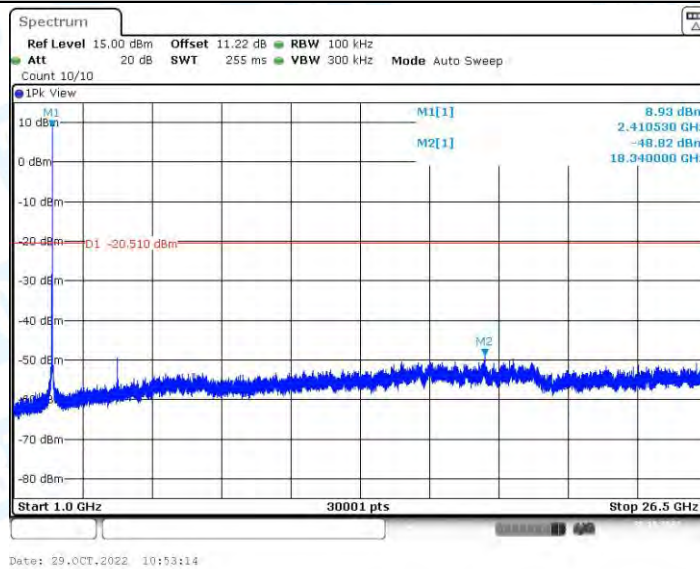




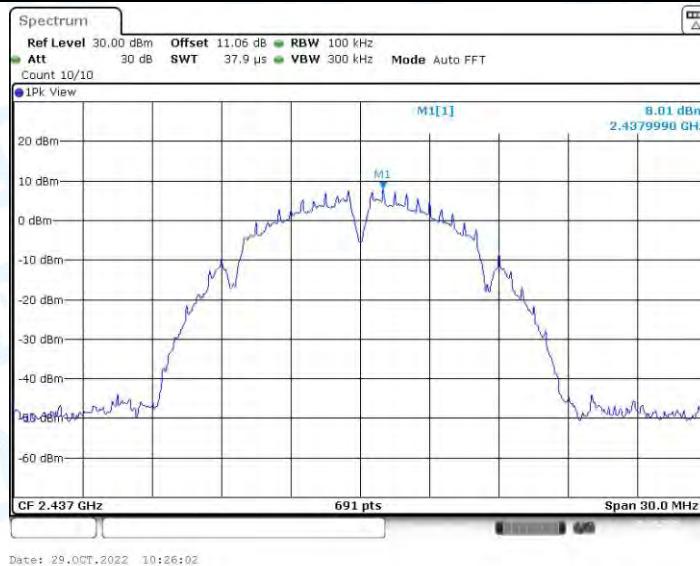
11B\_Ant2\_2412\_30~1000



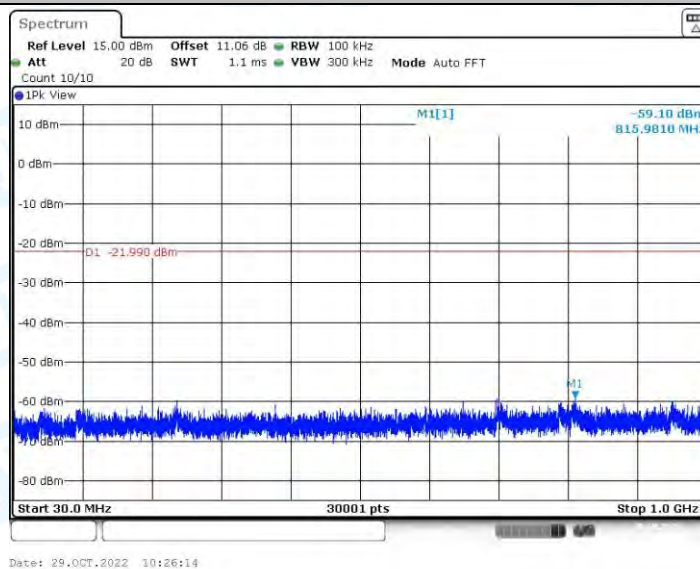
11B\_Ant2\_2412\_1000~26500



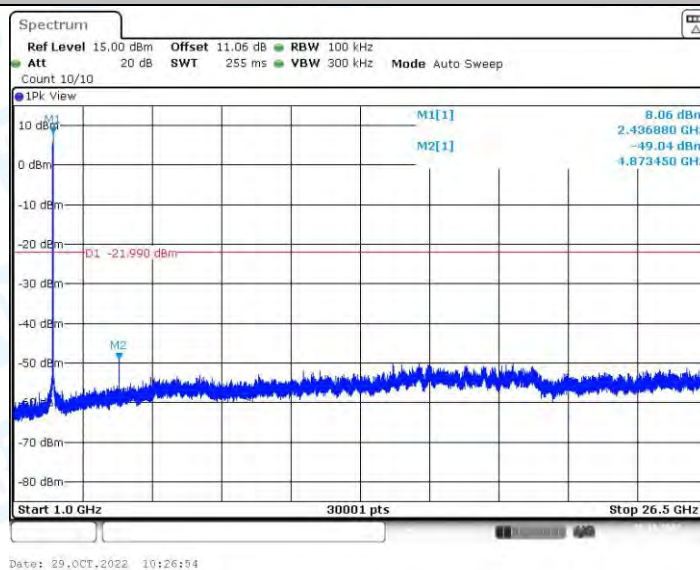
11B\_Ant1\_2437\_0~Reference



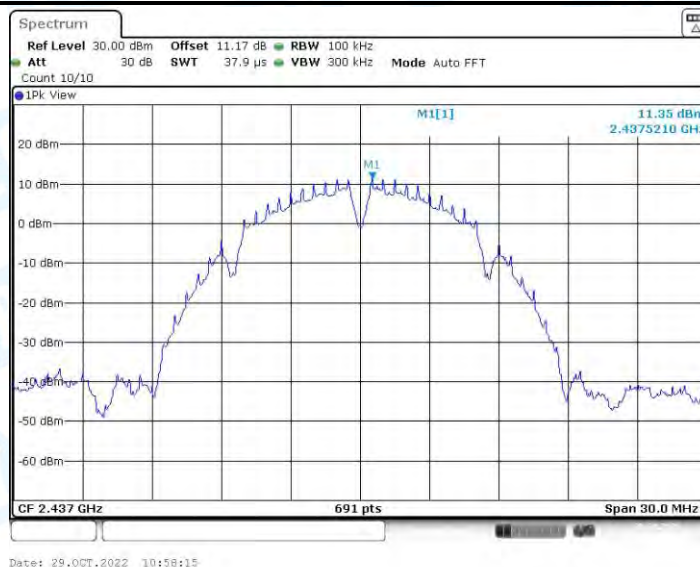
## 11B\_Ant1\_2437\_30~1000



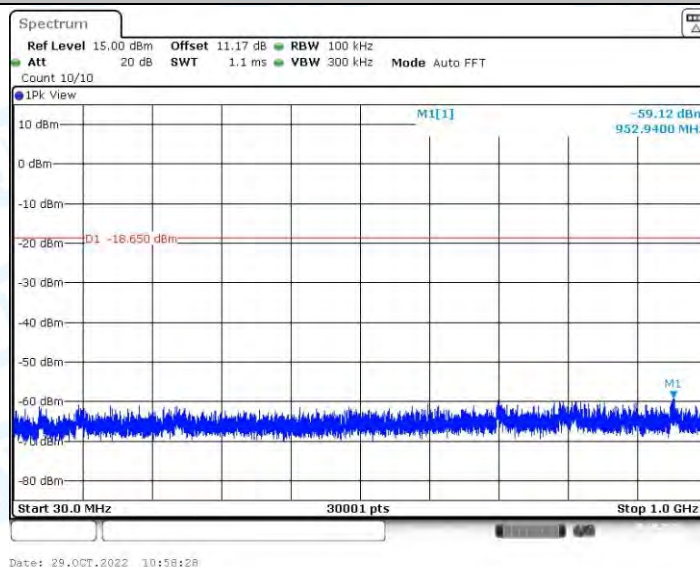
## 11B\_Ant1\_2437\_1000~26500



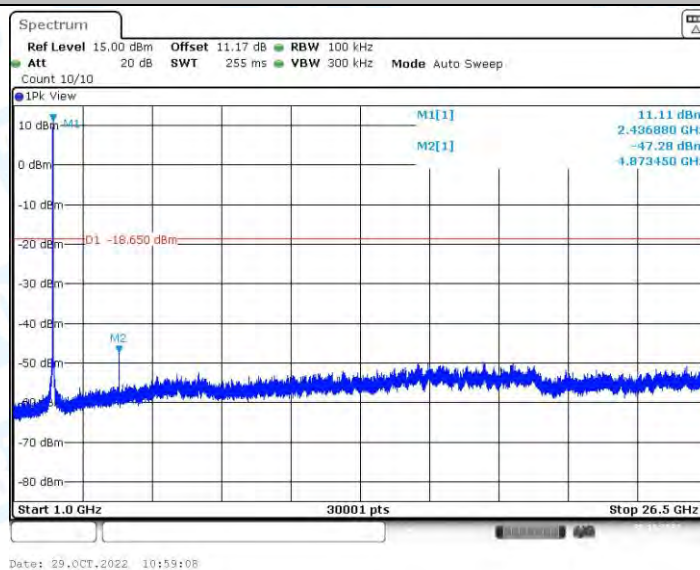
## 11B\_Ant2\_2437\_0~Reference



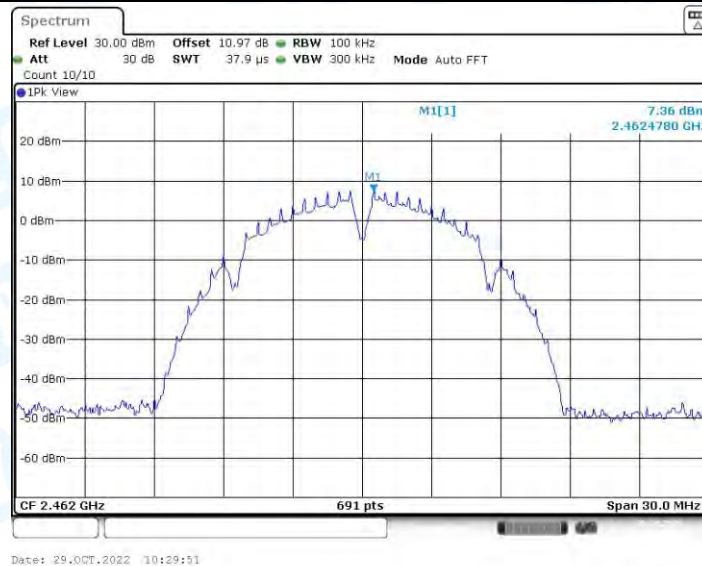
11B\_Ant2\_2437\_30~1000



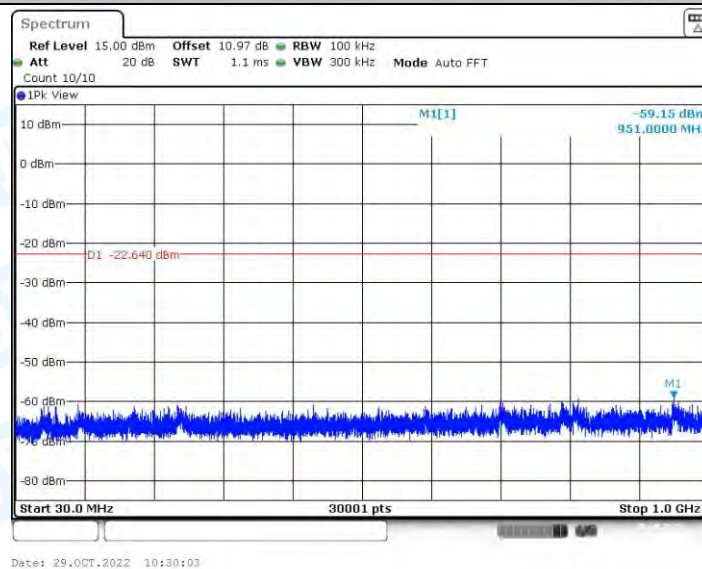
11B\_Ant2\_2437\_1000~26500



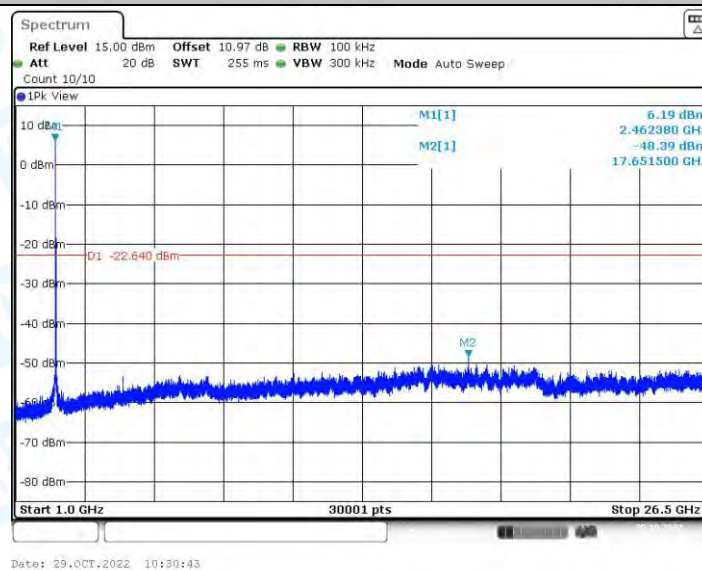
11B\_Ant1\_2462\_0~Reference



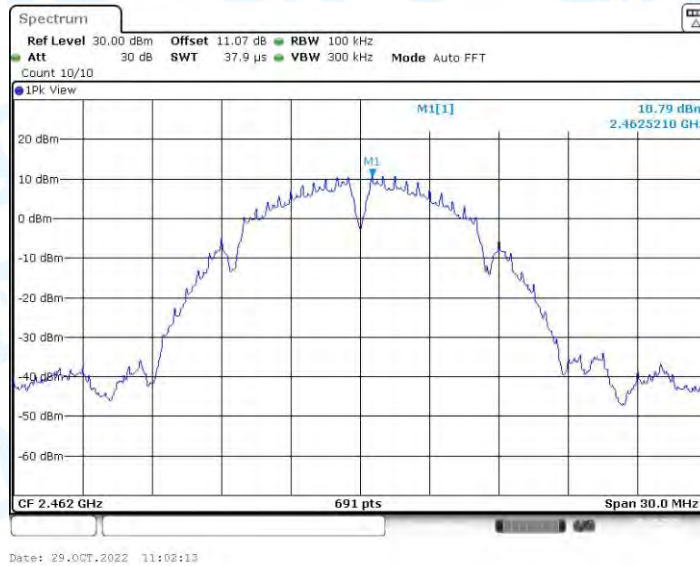
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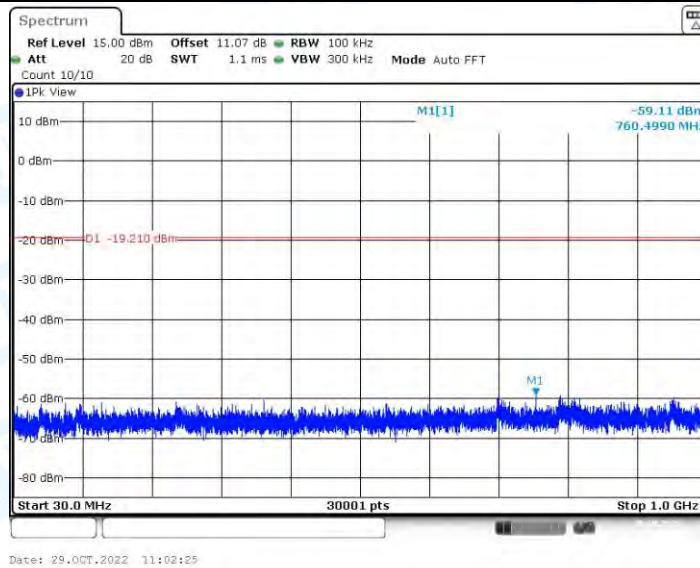
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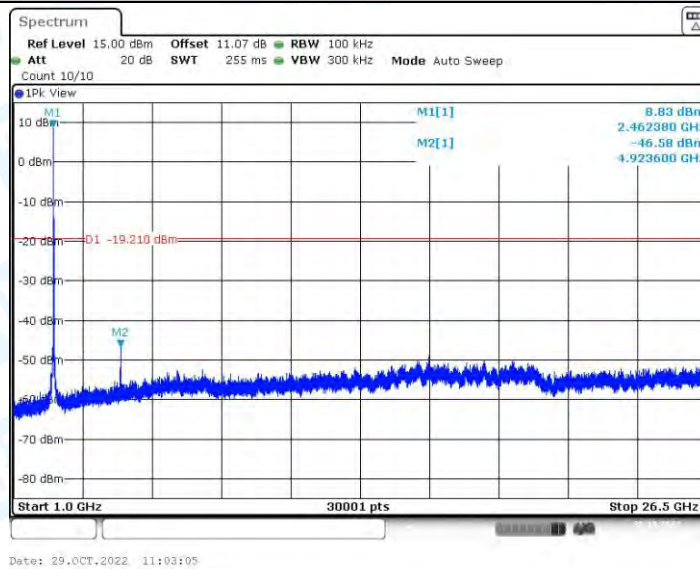
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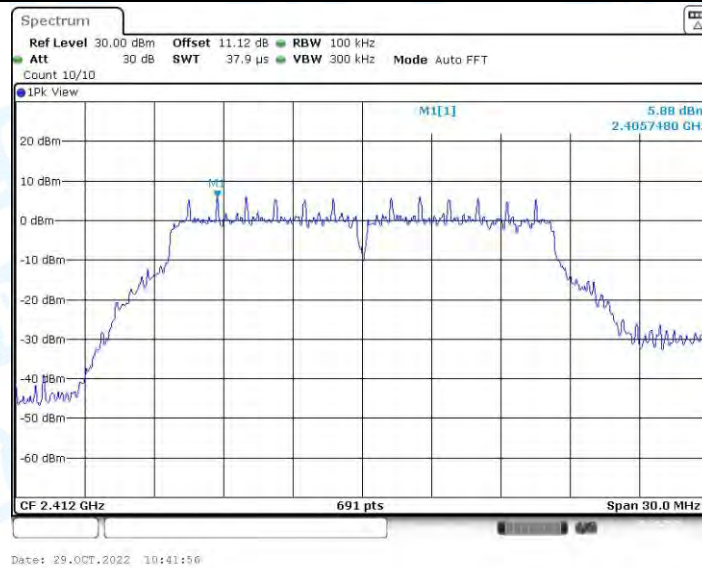
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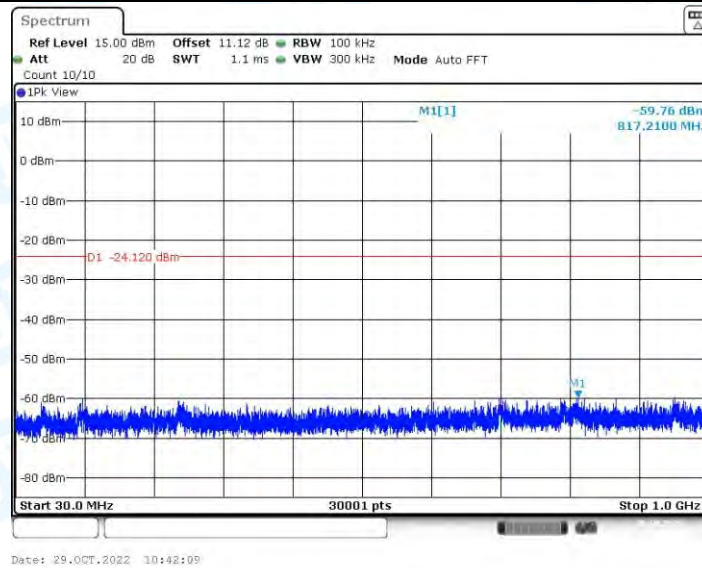
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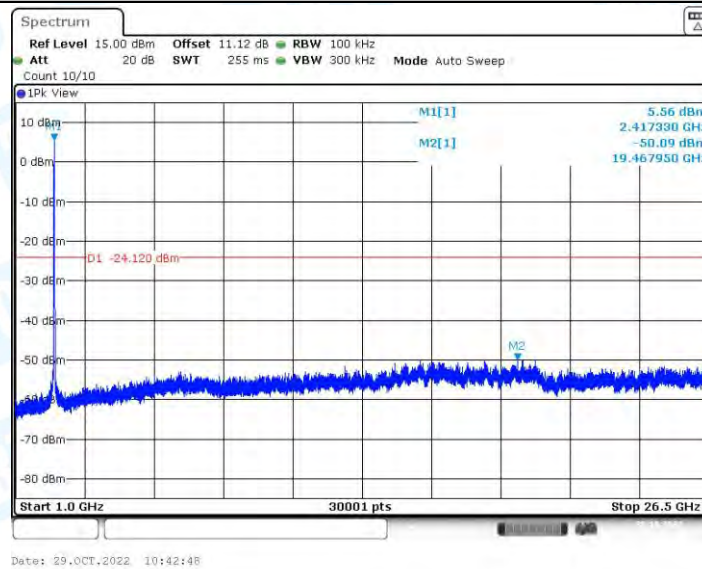
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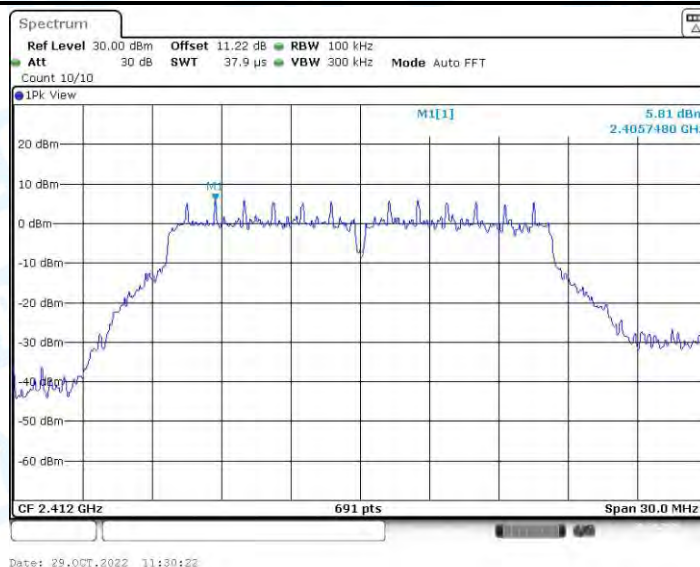
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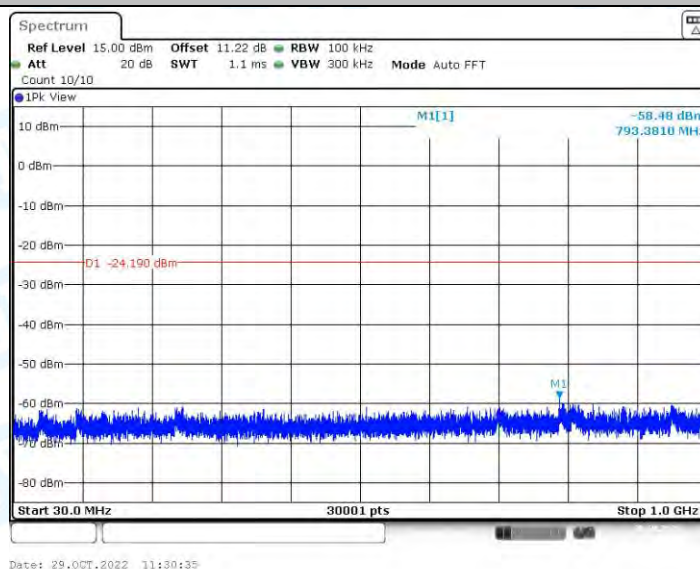
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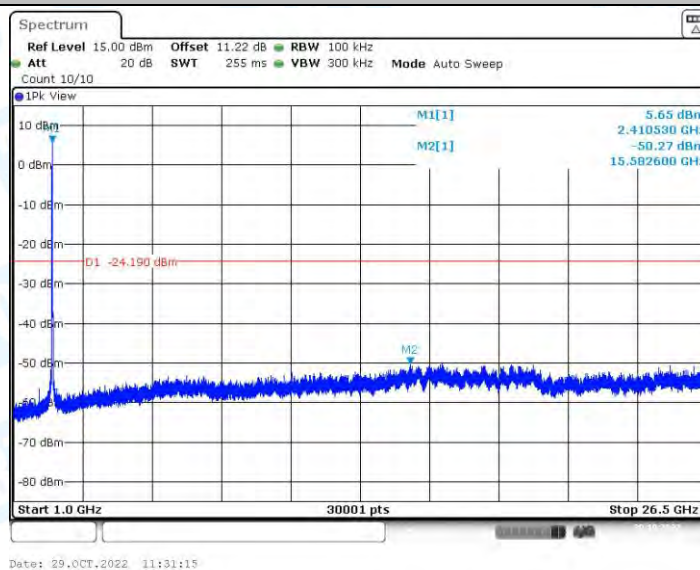
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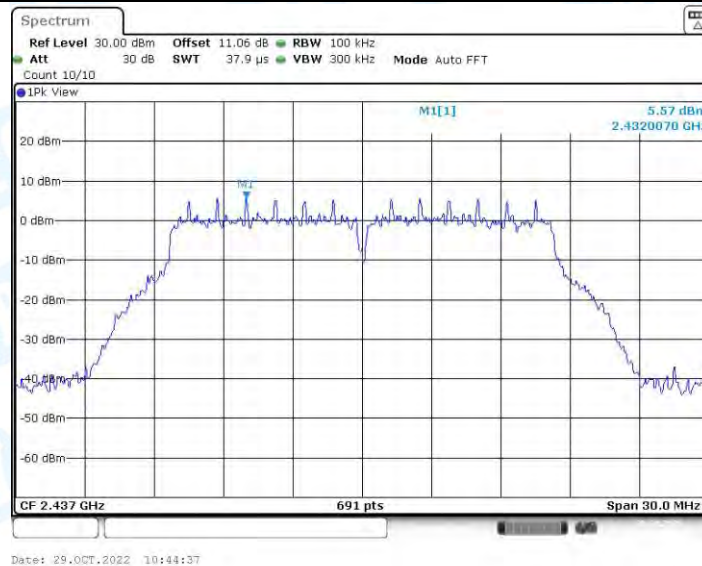
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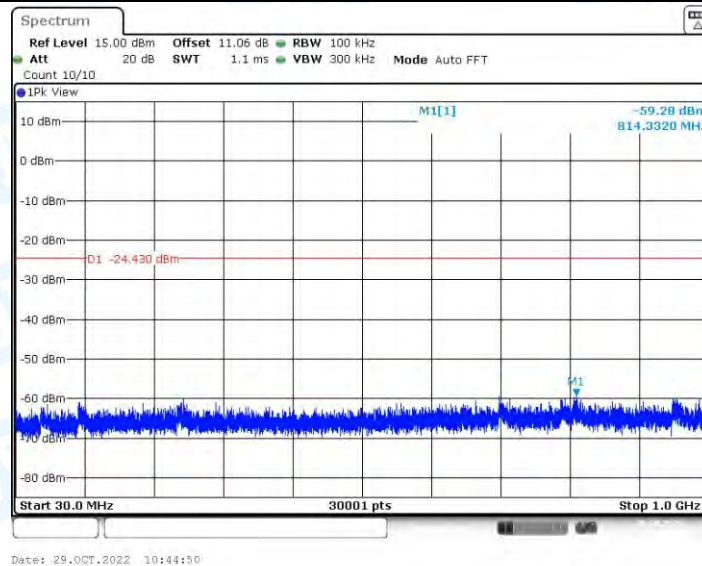
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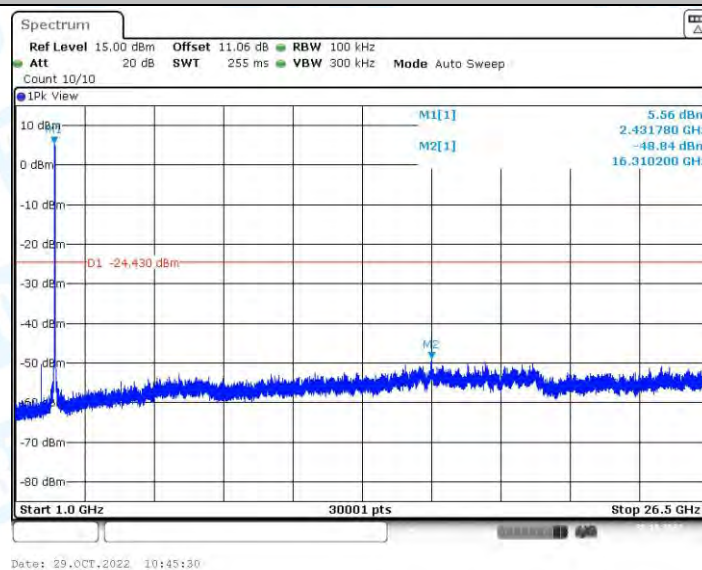
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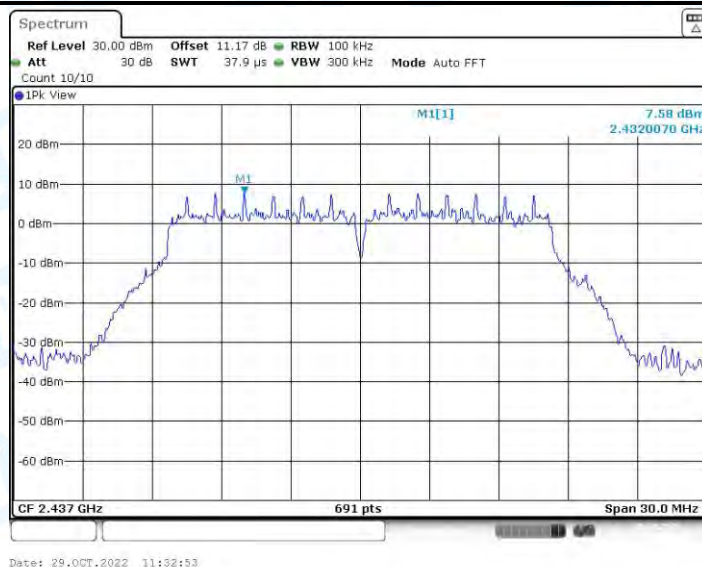
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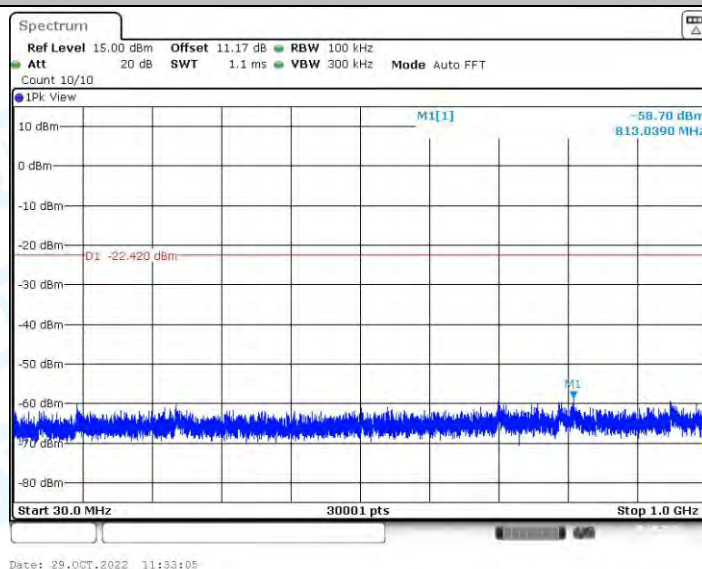
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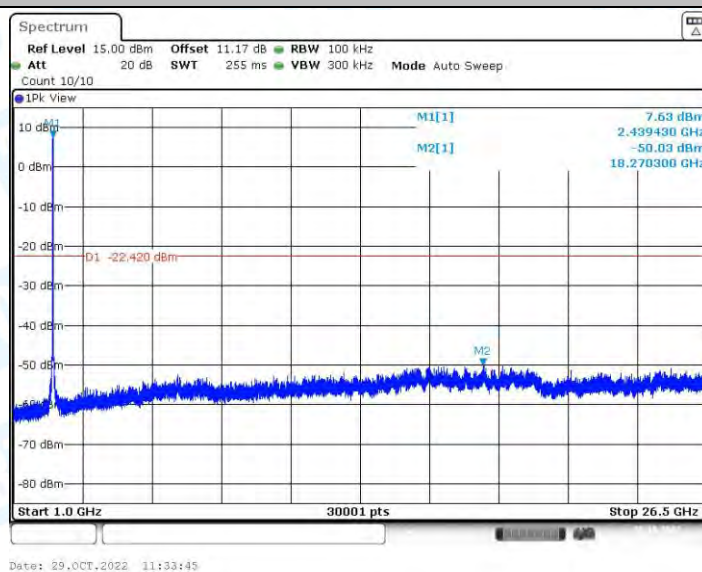
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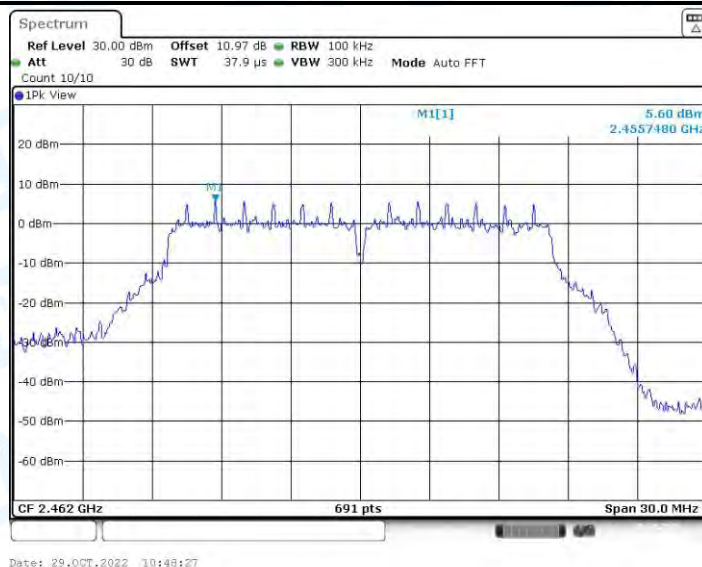
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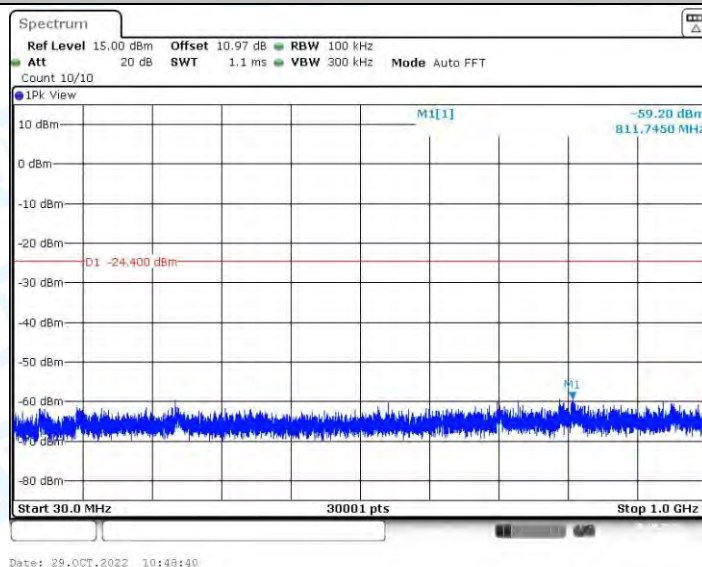
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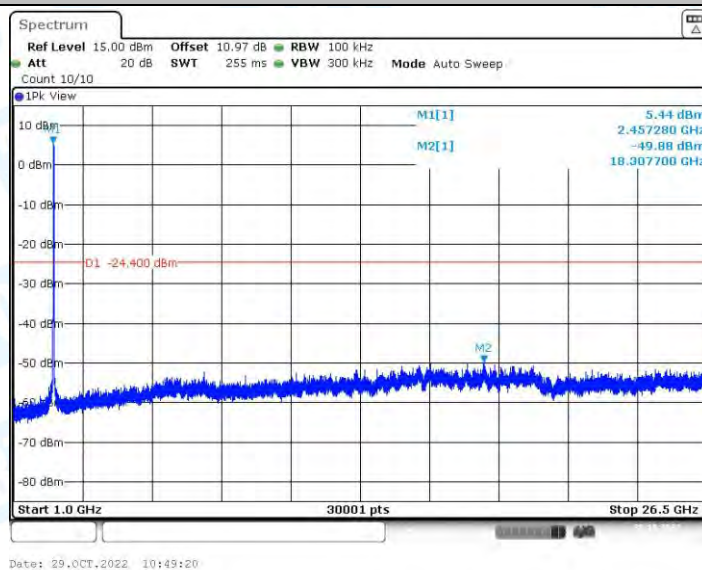
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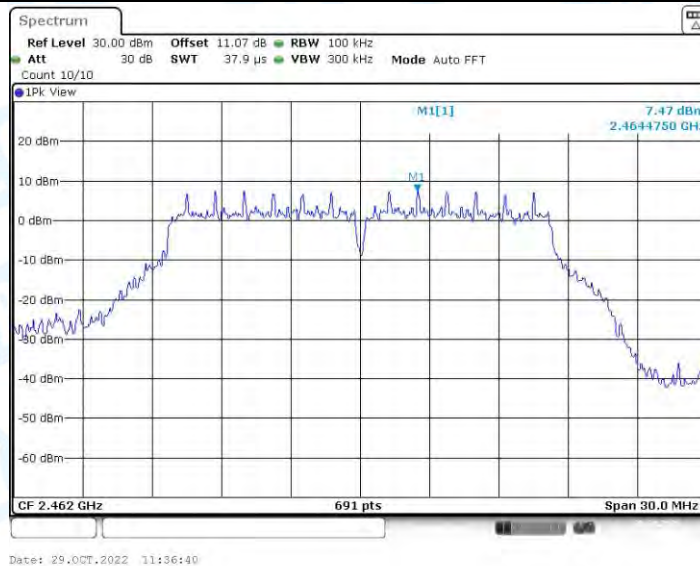
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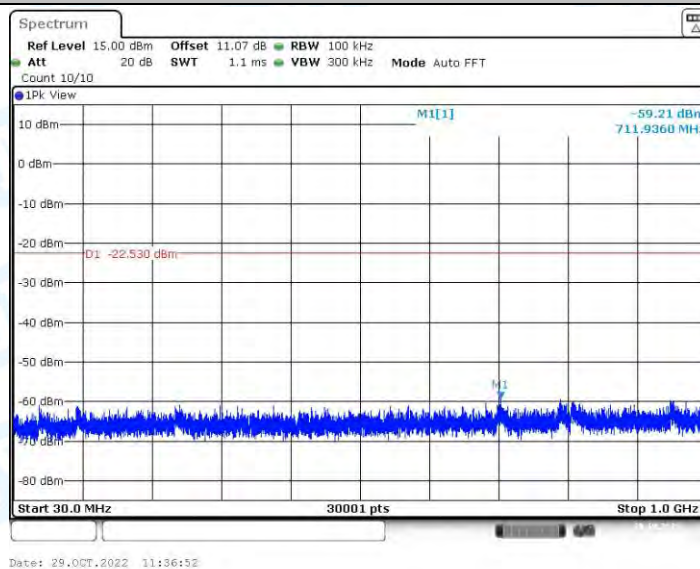
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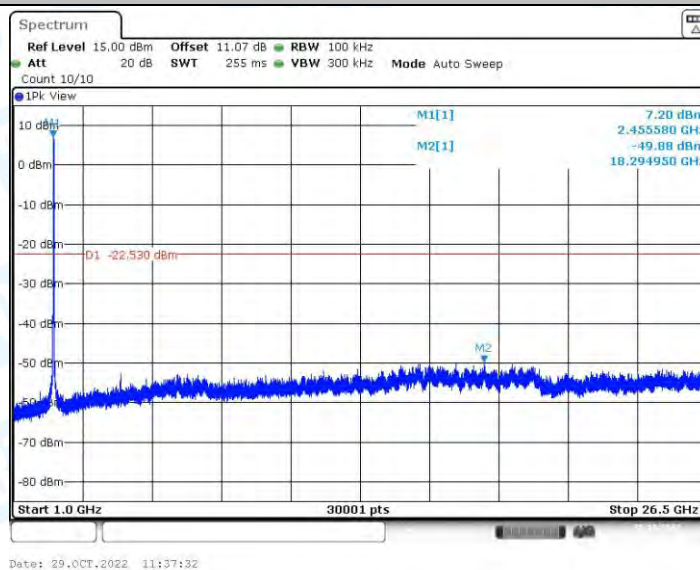
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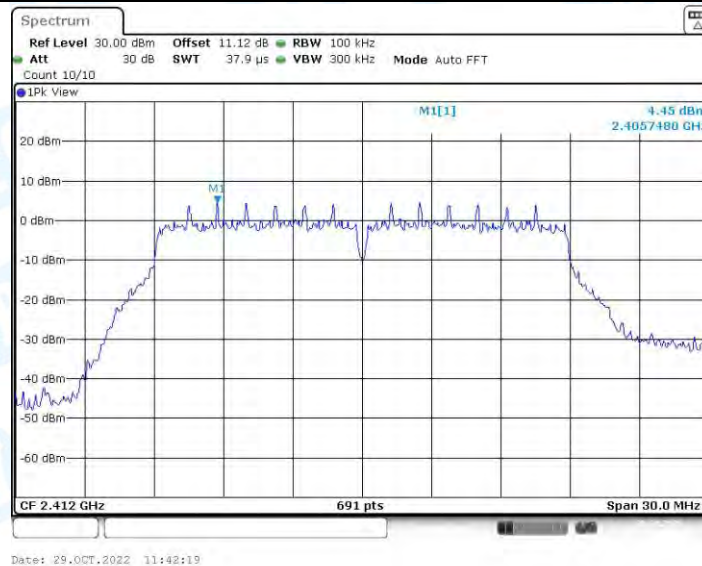
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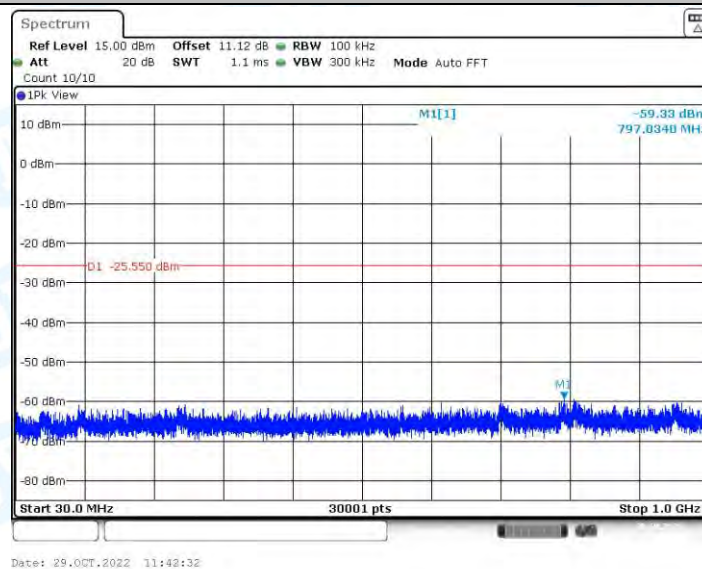
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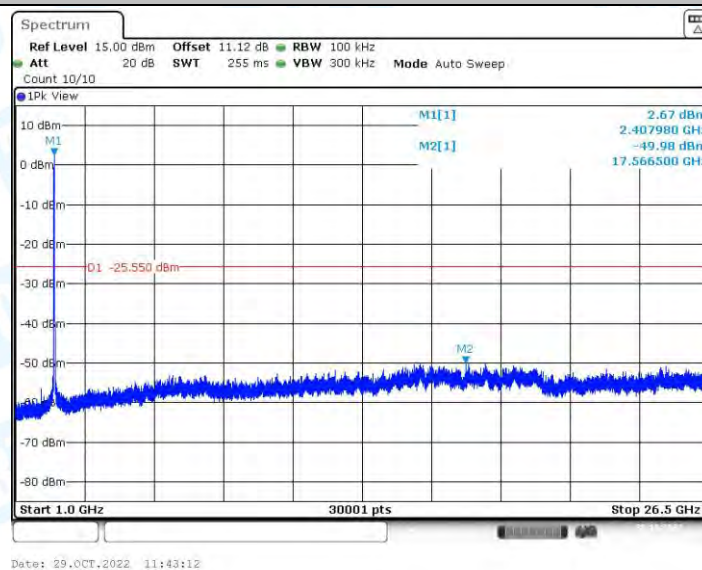
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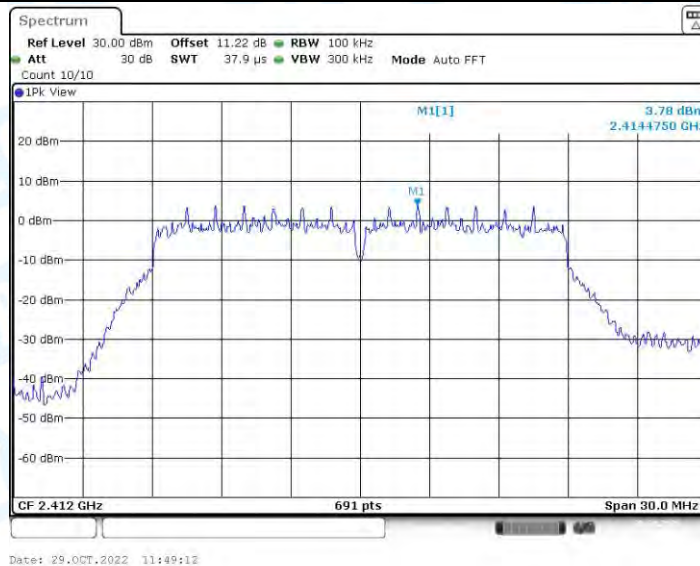
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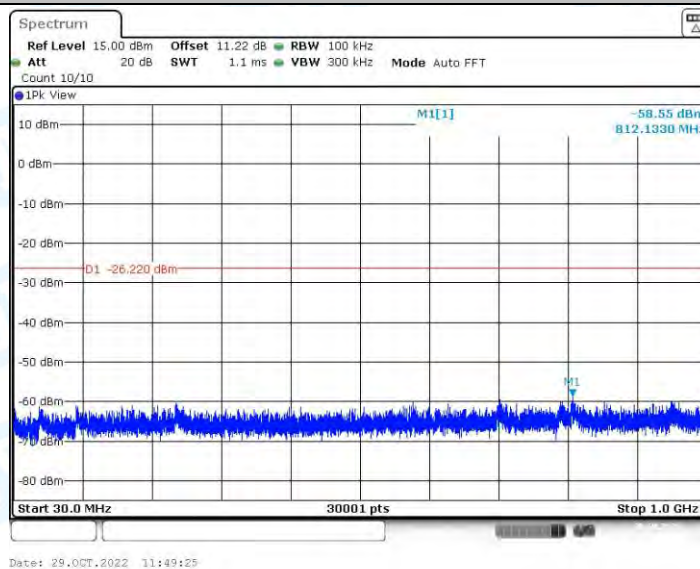
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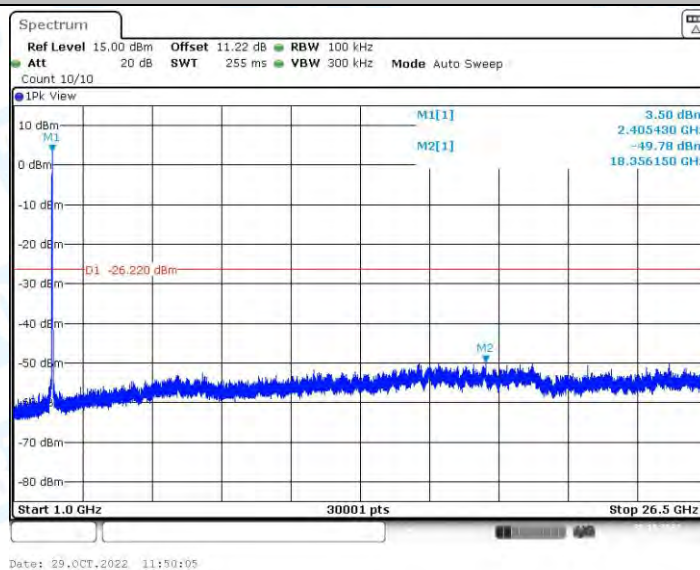
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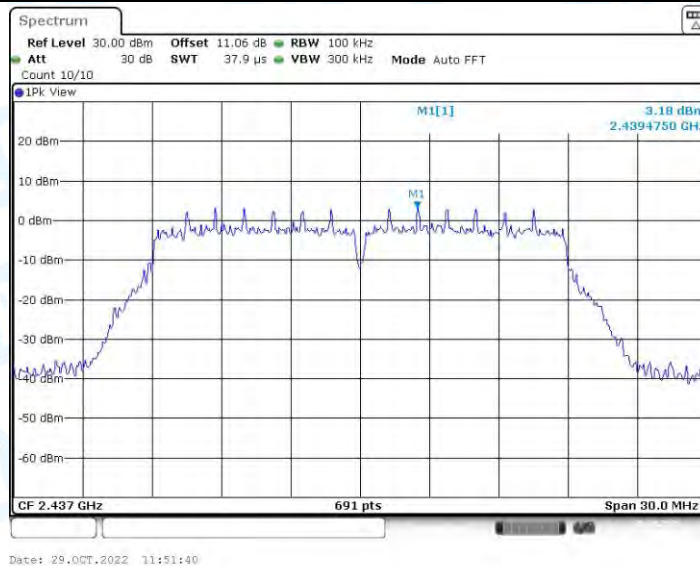
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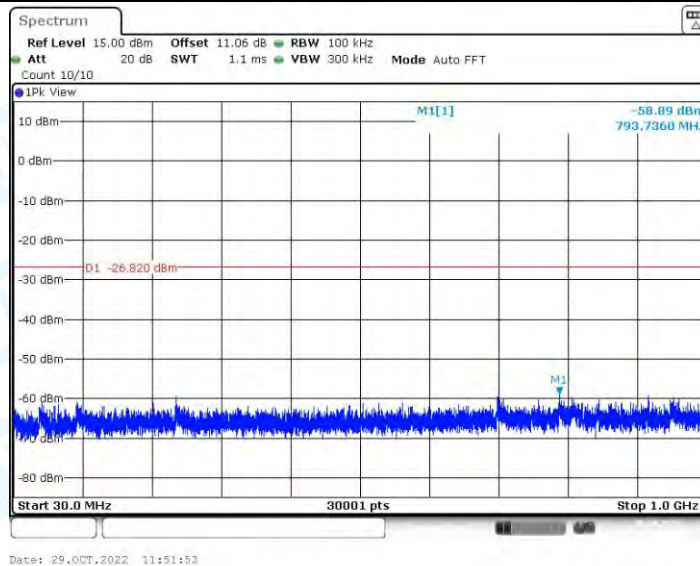
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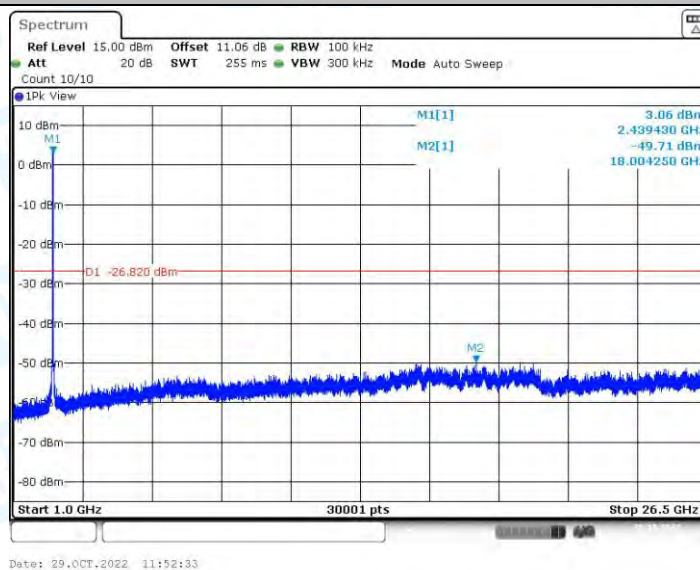
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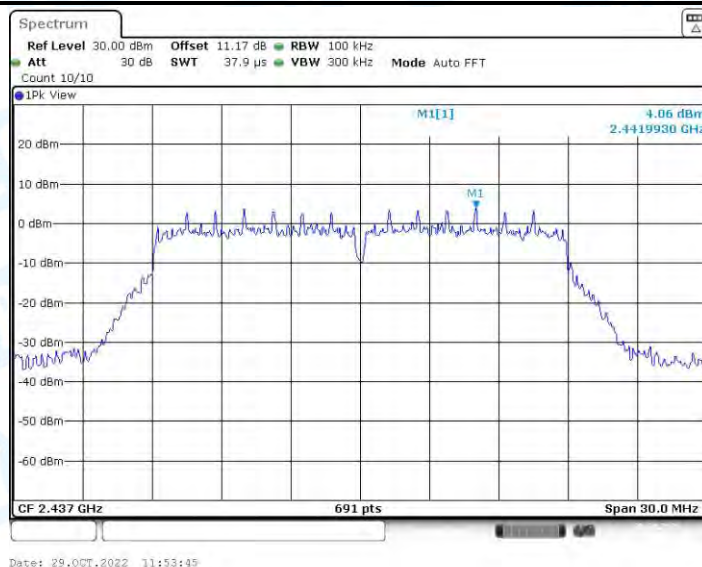
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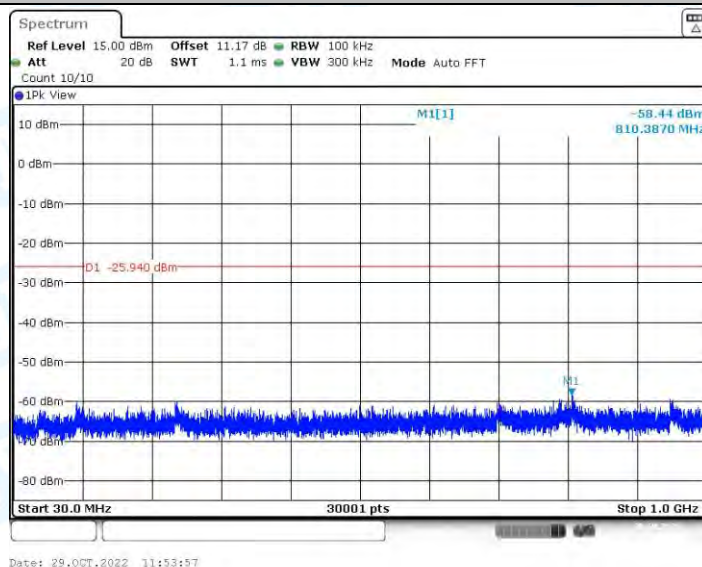
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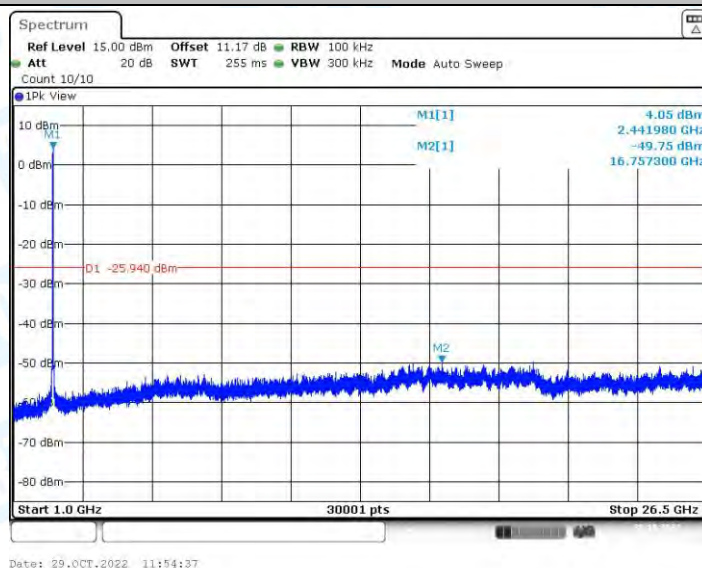
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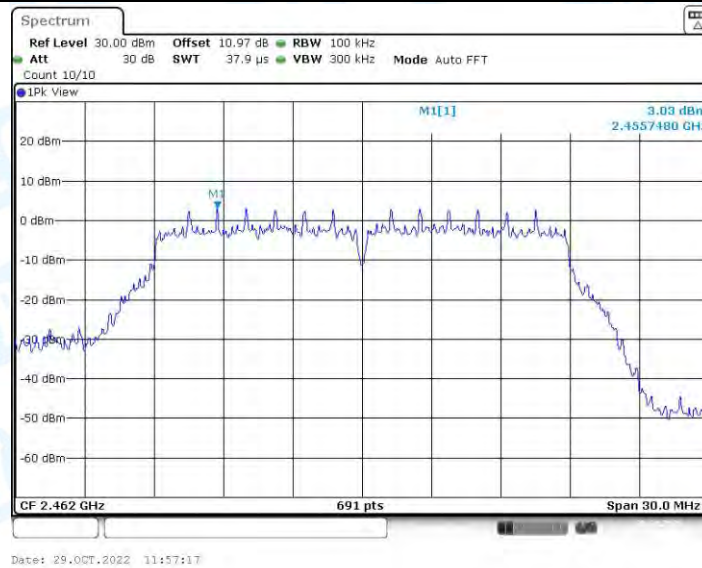
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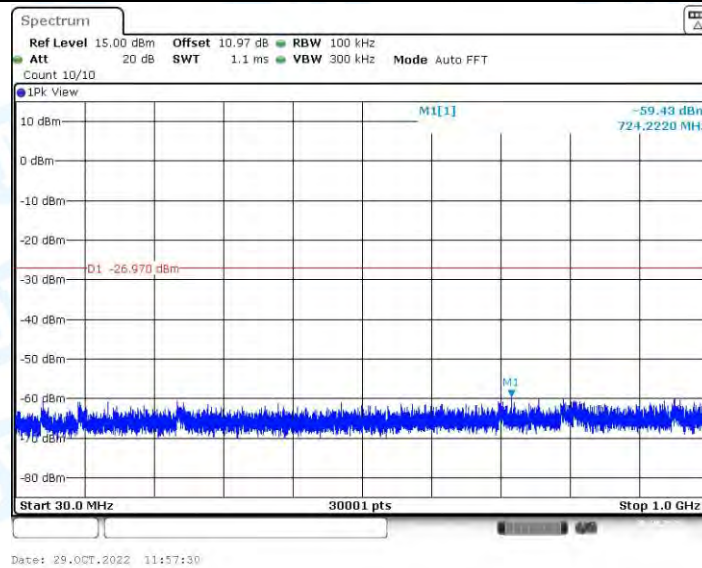
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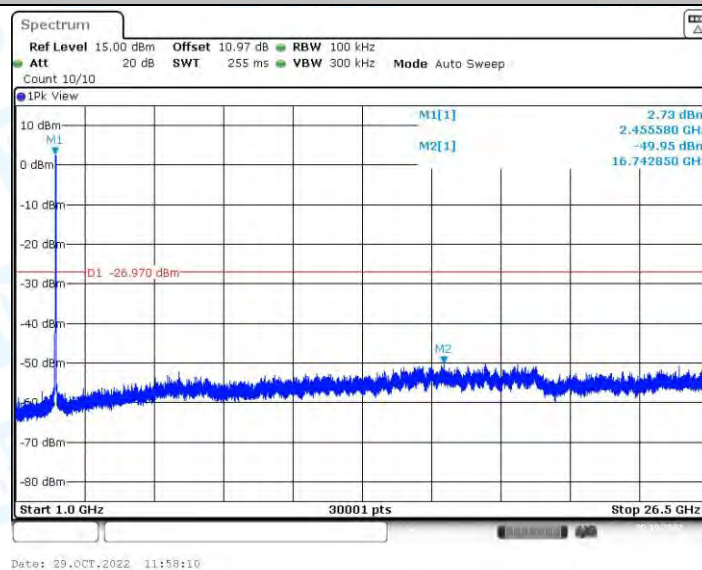
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11N20MIMO\_Ant1\_2462\_30~1000



11N20MIMO\_Ant1\_2462\_1000~26500



11N20MIMO\_Ant2\_2462\_0~Reference