

## A.6 POWER SPECTRAL DENSITY

|              |                               |            |                |
|--------------|-------------------------------|------------|----------------|
| Test Date    | 2025/09/22~23                 | Temp./Hum. | 23~24°C/58~63% |
| Cable Loss   | Main: 1.60dB, AUX: 1.75dB     | Tested By  | Sean Wang      |
| Test Voltage | AC 120V 60Hz (Via AC Adapter) |            |                |

### A.6.1 Power Spectral Density Result

#### ● Wireless LAN Mode

| Mode    | Centre Frequency (MHz) | Power Spectral Density (dBm) |               | MAX. Power Spectral Density (dBm) <sup>Note 2</sup> | Limit       |
|---------|------------------------|------------------------------|---------------|-----------------------------------------------------|-------------|
|         |                        | AUX                          | Main          |                                                     |             |
| 802.11b | 2412                   | -5.000                       | <b>-2.400</b> | -2.400                                              | <8 dBm/3kHz |
|         | 2442                   | <b>-1.810</b>                | -2.450        | -1.810                                              |             |
|         | 2462                   | -2.070                       | -3.250        | -2.070                                              |             |
|         | 2472                   | -4.790                       | -4.430        | -4.430                                              |             |
| 802.11g | 2412                   | -3.270                       | -3.920        | -3.270                                              |             |
|         | 2442                   | <b>-2.730</b>                | -3.930        | -2.730                                              |             |
|         | 2462                   | -2.910                       | <b>-1.810</b> | -1.810                                              |             |
|         | 2472                   | -10.390                      | -10.520       | -10.390                                             |             |

Note: 1. All results have been included cable loss.

2. MAX. Power Spectral Density (dBm) = Max of each Power Spectral Density (dBm).

3. We only presented max result (worst case) plots for each test mode.

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| Mode           | Centre Frequency (MHz) | Power Spectral Density (dBm) |               | Total Power Spectral Density (dBm) <sup>Note 2</sup> | Limit       |
|----------------|------------------------|------------------------------|---------------|------------------------------------------------------|-------------|
|                |                        | AUX                          | Main          |                                                      |             |
| 802.11n-HT20   | 2412                   | -5.670                       | -6.290        | -5.670                                               | <8 dBm/3kHz |
|                | 2442                   | <b>-4.000</b>                | <b>-3.730</b> | <b>-4.000</b>                                        |             |
|                | 2462                   | -4.380                       | -5.100        | -4.380                                               |             |
|                | 2472                   | -11.870                      | -11.650       | -11.870                                              |             |
| 802.11n-HT40   | 2422                   | -8.370                       | -8.470        | -8.370                                               |             |
|                | 2442                   | <b>-7.630</b>                | <b>-6.820</b> | <b>-7.630</b>                                        |             |
|                | 2452                   | -8.990                       | -8.820        | -8.990                                               |             |
|                | 2462                   | -14.380                      | -14.270       | -14.380                                              |             |
| 802.11ax-HE20  | 2412                   | -6.410                       | -6.520        | -6.410                                               |             |
|                | 2442                   | <b>-4.600</b>                | <b>-4.450</b> | <b>-4.600</b>                                        |             |
|                | 2462                   | -6.320                       | -6.240        | -6.320                                               |             |
|                | 2472                   | -11.920                      | -13.300       | -11.920                                              |             |
| 802.11ax-HE40  | 2422                   | -10.090                      | -9.520        | -10.090                                              |             |
|                | 2442                   | <b>-8.560</b>                | <b>-8.800</b> | <b>-8.560</b>                                        |             |
|                | 2452                   | -9.310                       | -9.770        | -9.310                                               |             |
|                | 2462                   | -15.170                      | -14.990       | -15.170                                              |             |
| 802.11be-EHT20 | 2412                   | -7.760                       | -6.940        | -7.760                                               |             |
|                | 2442                   | <b>-3.720</b>                | <b>-4.090</b> | <b>-3.720</b>                                        |             |
|                | 2462                   | -5.870                       | -5.920        | -5.870                                               |             |
|                | 2472                   | -12.240                      | -12.850       | -12.240                                              |             |
| 802.11be-EHT40 | 2422                   | -9.880                       | -10.150       | -9.880                                               |             |
|                | 2442                   | <b>-8.460</b>                | <b>-8.340</b> | <b>-8.460</b>                                        |             |
|                | 2452                   | -9.040                       | -9.750        | -9.040                                               |             |
|                | 2462                   | -15.900                      | -15.010       | -15.900                                              |             |

Note: 1. All results have been included cable loss.

2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm) = Sum to individual Power Spectral Density (dBm).

3. We only presented max result (worst case) plots for each test mode.

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| Mode           | Centre Frequency (MHz) | RU Config | Power Spectral Density (dBm) |                | Total Power Spectral Density (dBm) <sup>Note 2</sup> | Limit       |
|----------------|------------------------|-----------|------------------------------|----------------|------------------------------------------------------|-------------|
|                |                        |           | AUX                          | Main           |                                                      |             |
| 802.11ax-HE20  | 2412                   | 26/0      | <b>3.440</b>                 | <b>2.520</b>   | 6.015                                                | <8 dBm/3kHz |
|                |                        | 52/37     | 0.920                        | 0.840          | 3.890                                                |             |
|                |                        | 106/53    | -1.390                       | -2.470         | 1.114                                                |             |
|                | 2472                   | 26/8      | <b>-12.360</b>               | -13.780        | -10.002                                              |             |
|                |                        | 52/40     | -16.280                      | -17.640        | -13.897                                              |             |
|                |                        | 106/54    | -12.910                      | <b>-13.980</b> | -10.402                                              |             |
| 802.11ax-HE40  | 2422                   | 242/61    | <b>-5.550</b>                | <b>-6.960</b>  | -3.188                                               |             |
|                | 2462                   | 242/62    | <b>-11.530</b>               | <b>-12.210</b> | -8.846                                               |             |
| 802.11be-EHT20 | 2412                   | 26/0      | <b>4.480</b>                 | <b>3.480</b>   | 7.019                                                |             |
|                |                        | 52/37     | 1.480                        | 0.710          | 4.122                                                |             |
|                |                        | 106/53    | -1.850                       | -1.840         | 1.165                                                |             |
|                | 2472                   | 26/8      | <b>-12.450</b>               | <b>-12.770</b> | -9.597                                               |             |
|                |                        | 52/40     | -16.800                      | -17.320        | -14.042                                              |             |
|                |                        | 106/54    | -12.840                      | -13.670        | -10.225                                              |             |
| 802.11be-EHT40 | 2422                   | 242/61    | <b>-6.830</b>                | <b>-7.120</b>  | -3.962                                               |             |
|                | 2462                   | 242/62    | <b>-12.020</b>               | <b>-13.550</b> | -9.708                                               |             |

Note: 1. All results have been included cable loss.

2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm) = Sum to individual Power Spectral Density (dBm).

3. We only presented max result (worst case) plots for each test mode.

#### ● BLE Mode

| Mode        | Center Frequency (MHz) | Power Spectral Density (dBm) |              | Limit       |
|-------------|------------------------|------------------------------|--------------|-------------|
|             |                        | AUX                          | Main         |             |
| BLE (2Mbps) | 2402                   | -2.79                        | -2.36        | <8 dBm/3kHz |
|             | 2440                   | -2.05                        | <b>-2.11</b> |             |
|             | 2480                   | <b>-1.95</b>                 | -2.18        |             |

Note: 1. All results have been included cable loss.

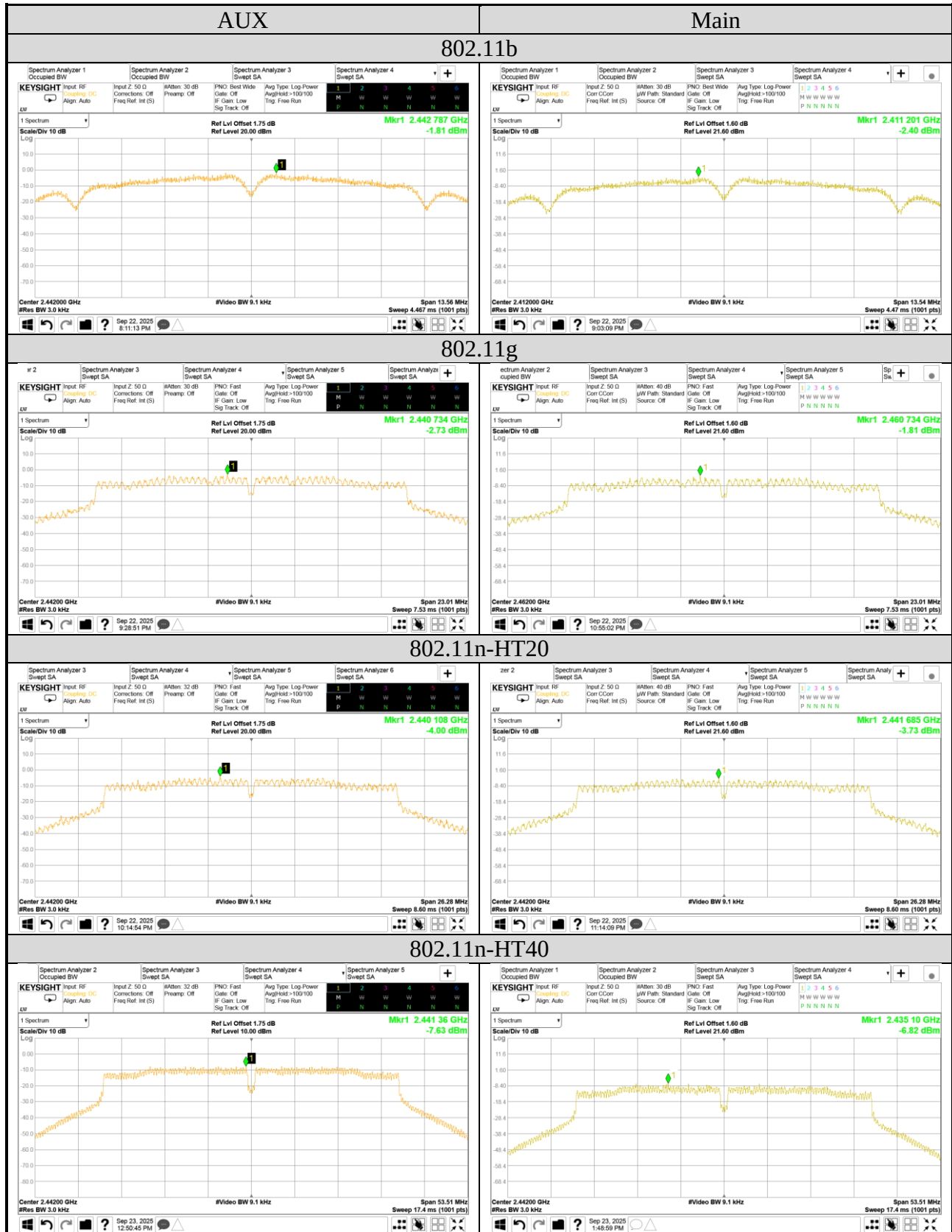
2. We only presented max result (worst case) plots for this test mode.

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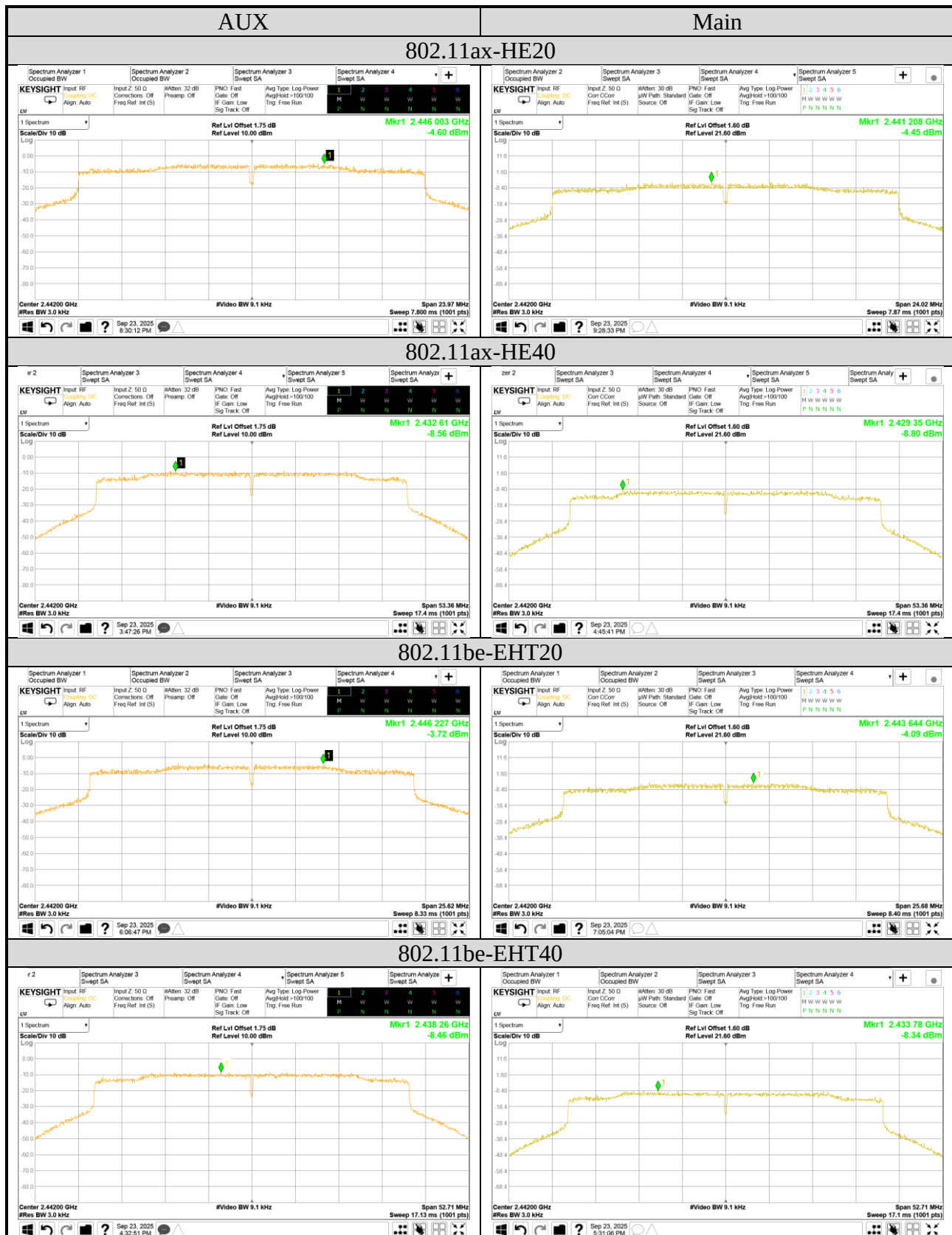
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## A.6.2 Measurement Plots

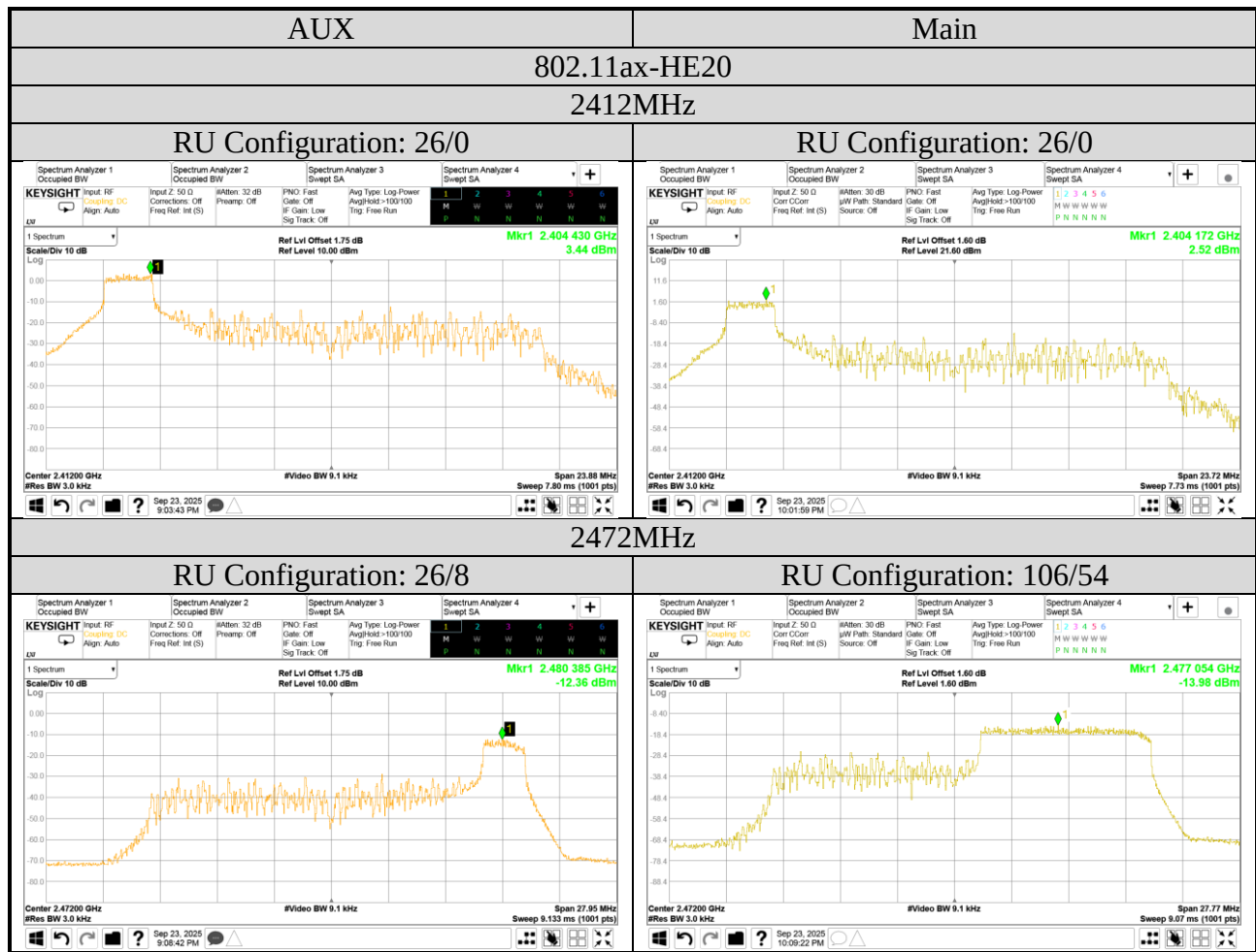
### ● Wireless LAN Mode



Note: All results have been included cable loss.



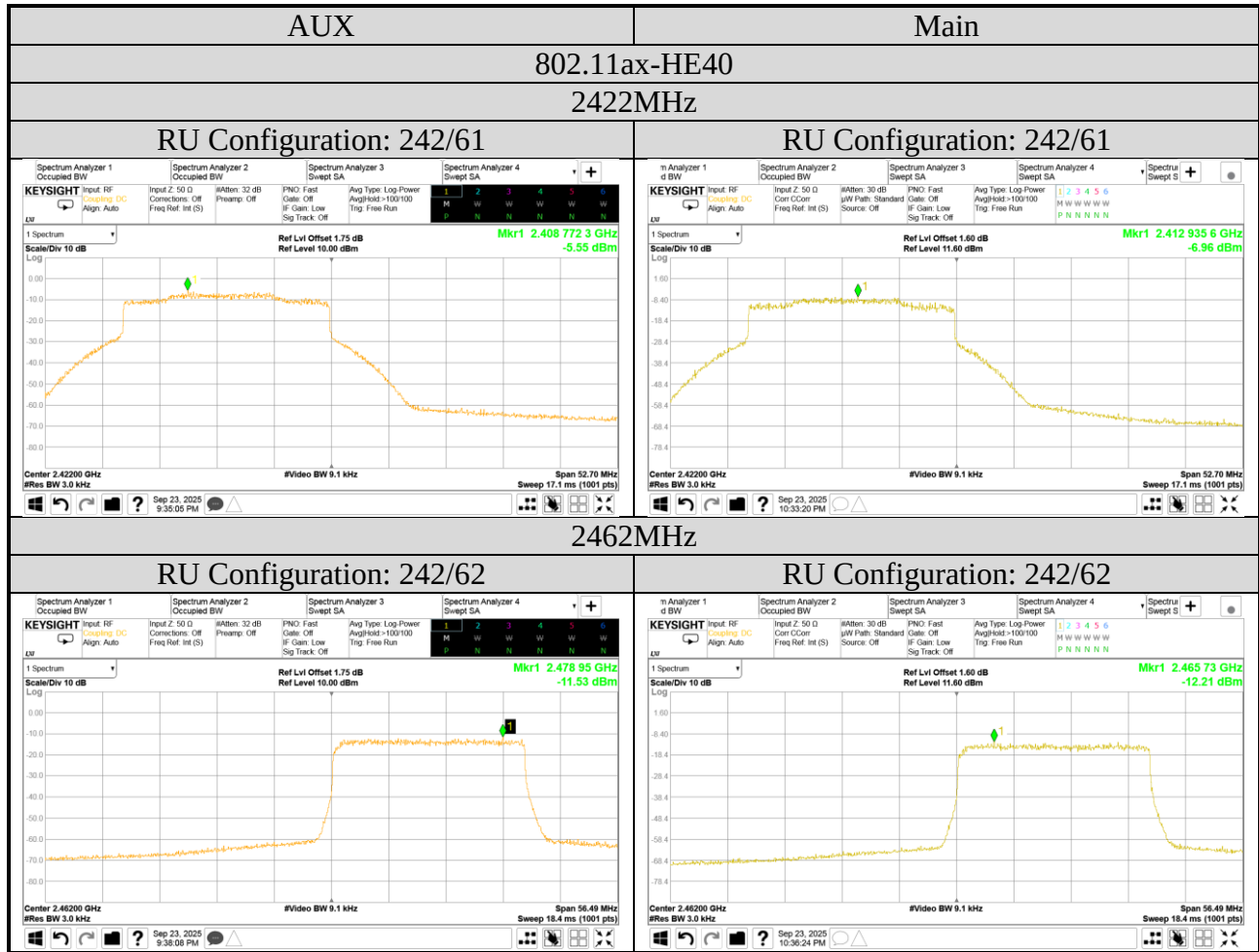
Note: All results have been included cable loss.



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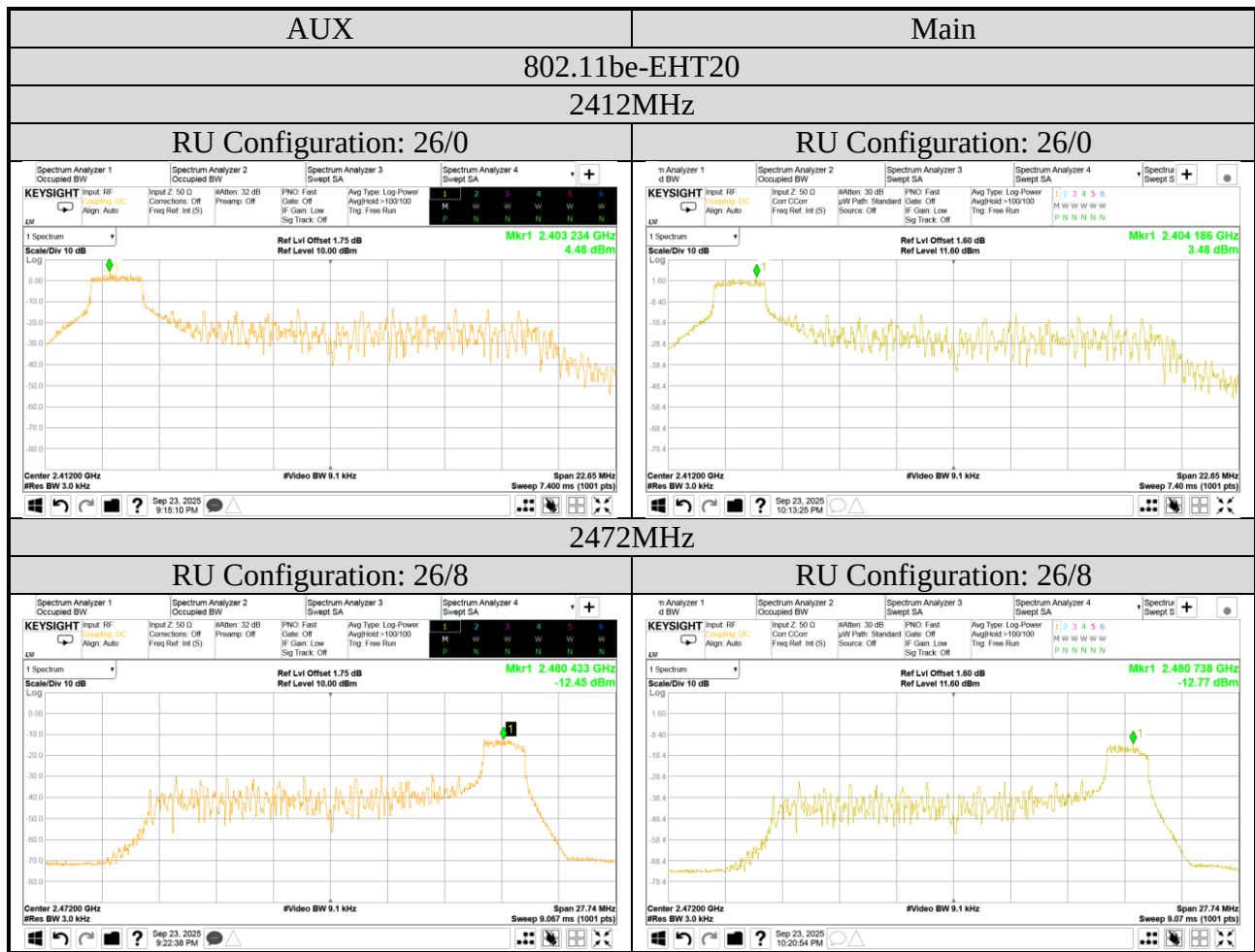
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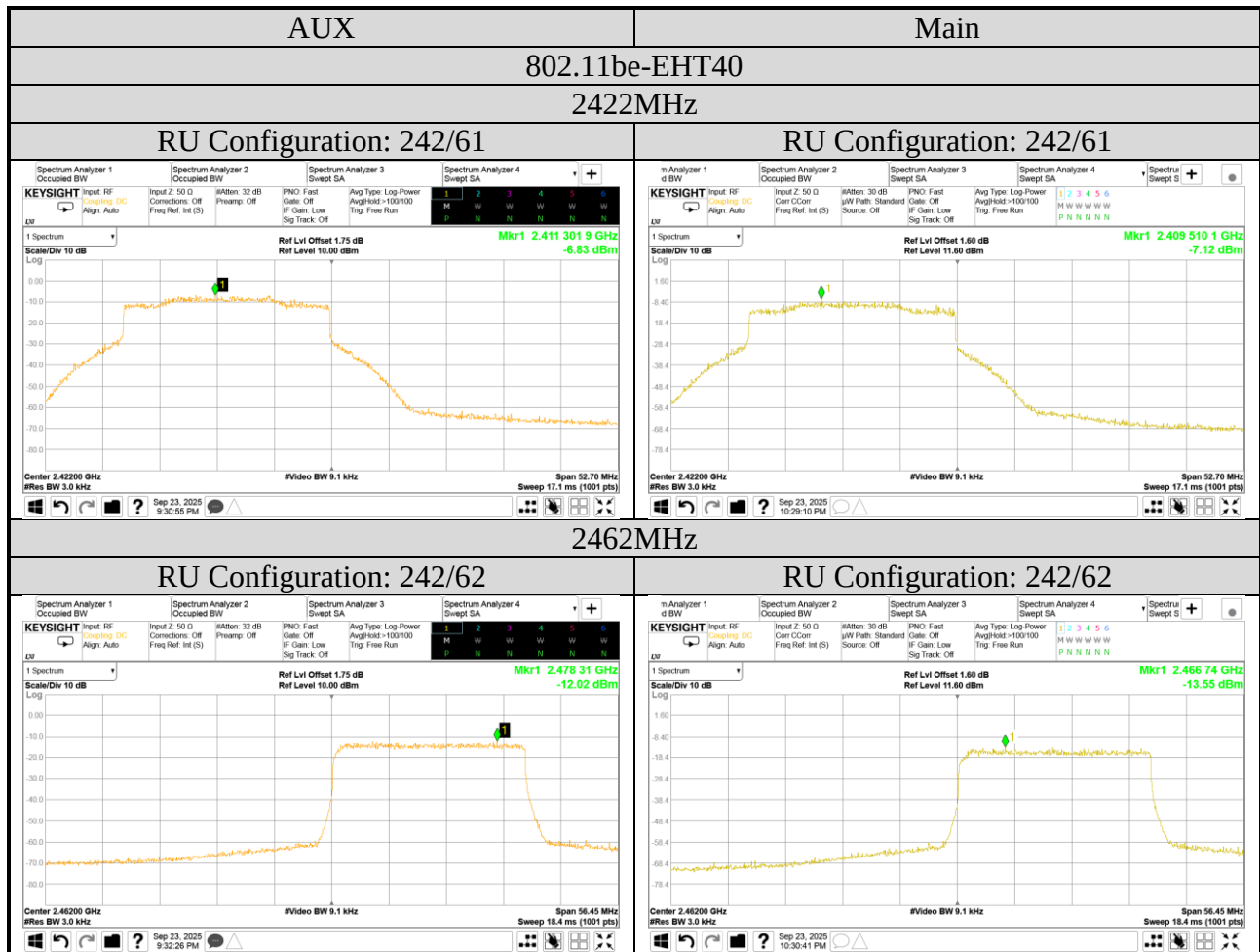
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# ● BLE Mode

