

## A.6 POWER SPECTRAL DENSITY

|              |                                |            |                |
|--------------|--------------------------------|------------|----------------|
| Test Date    | 2022/10/19 ~ 21                | Temp./Hum. | 22~24°C/63~72% |
| Cable Loss   | 0.50dB                         | Tested By  | Brian Hsieh    |
| Test Voltage | AC 120V, 60Hz (via AC Adapter) |            |                |

### A.6.1 Power Spectral Density Result

| Mode    | Centre Frequency (MHz) | Power Spectral Density (dBm) |         | MAX. Power Spectral Density (dBm)<br><small>Note 2</small> | Limit       |
|---------|------------------------|------------------------------|---------|------------------------------------------------------------|-------------|
|         |                        | AUX                          | Main    |                                                            |             |
| 802.11b | 2412                   | -2.060                       | -1.950  | -1.950                                                     | <8 dBm/3kHz |
|         | 2442                   | -2.330                       | -1.910  | -1.910                                                     |             |
|         | 2462                   | -2.080                       | -2.020  | -2.020                                                     |             |
|         | 2472                   | -5.770                       | -6.360  | -5.770                                                     |             |
| 802.11g | 2412                   | -6.860                       | -6.050  | -6.050                                                     |             |
|         | 2442                   | -4.980                       | -4.760  | -4.760                                                     |             |
|         | 2462                   | -7.610                       | -7.990  | -7.610                                                     |             |
|         | 2472                   | -13.550                      | -13.880 | -13.550                                                    |             |

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

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

**Audix Technology Corp.**  
No. 491, Zhongfu Rd., Linkou Dist.,  
New Taipei City244, Taiwan

**Tel: +886 2 26099301**  
**Fax: +886 2 26099303**

| Mode          | Centre Frequency (MHz) | Power Spectral Density (dBm) |         | Total Power Spectral Density (dBm)<br><small>Note 2</small> | Limit       |
|---------------|------------------------|------------------------------|---------|-------------------------------------------------------------|-------------|
|               |                        | AUX                          | Main    |                                                             |             |
| 802.11n-HT20  | 2412                   | -10.550                      | -9.940  | -7.224                                                      | <8 dBm/3kHz |
|               | 2442                   | -4.090                       | -4.290  | -1.179                                                      |             |
|               | 2462                   | -9.990                       | -10.420 | -7.189                                                      |             |
|               | 2472                   | -18.920                      | -20.090 | -16.455                                                     |             |
| 802.11n-HT40  | 2422                   | -13.810                      | -12.920 | -10.332                                                     |             |
|               | 2442                   | -13.380                      | -11.810 | -9.514                                                      |             |
|               | 2452                   | -13.850                      | -13.280 | -10.545                                                     |             |
|               | 2462                   | -21.810                      | -22.050 | -18.918                                                     |             |
| 802.11ax-HE20 | 2412                   | -10.720                      | -10.310 | -7.500                                                      |             |
|               | 2442                   | -6.520                       | -4.860  | -2.601                                                      |             |
|               | 2462                   | -10.420                      | -10.330 | -7.364                                                      |             |
|               | 2472                   | -20.050                      | -20.200 | -17.114                                                     |             |
| 802.11ax-HE40 | 2422                   | -14.810                      | -15.040 | -11.913                                                     |             |
|               | 2442                   | -14.320                      | -13.740 | -11.010                                                     |             |
|               | 2452                   | -14.260                      | -14.170 | -11.204                                                     |             |
|               | 2462                   | -22.670                      | -23.340 | -19.982                                                     |             |

| Mode          | RU Configuration | Centre Frequency (MHz) | Power Spectral Density (dBm) |         | Total Power Spectral Density (dBm)<br><small>Note 2</small> | Limit       |
|---------------|------------------|------------------------|------------------------------|---------|-------------------------------------------------------------|-------------|
|               |                  |                        | AUX                          | Main    |                                                             |             |
| 802.11ax-HE20 | 26/0             | 2412                   | 1.020                        | -0.290  | 3.425                                                       | <8 dBm/3kHz |
|               | 52/37            |                        | -2.780                       | -2.900  | 0.171                                                       |             |
|               | 106/53           |                        | -9.270                       | -5.700  | -4.118                                                      |             |
|               | 26/8             | 2472                   | -11.410                      | -11.370 | -8.380                                                      |             |
|               | 52/40            |                        | -13.620                      | -13.410 | -10.503                                                     |             |
|               | 106/54           |                        | -16.480                      | -16.190 | -13.322                                                     |             |
| 802.11ax-HE40 | 242/61           | 2422                   | -9.630                       | -9.770  | -6.689                                                      |             |
|               | 242/62           | 2462                   | -20.200                      | -20.180 | -17.180                                                     |             |

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).

**Audix Technology Corp.**

No. 491, Zhongfu Rd., Linkou Dist.,

New Taipei City 244, Taiwan

**Tel:** +886 2 26099301**Fax:** +886 2 26099303

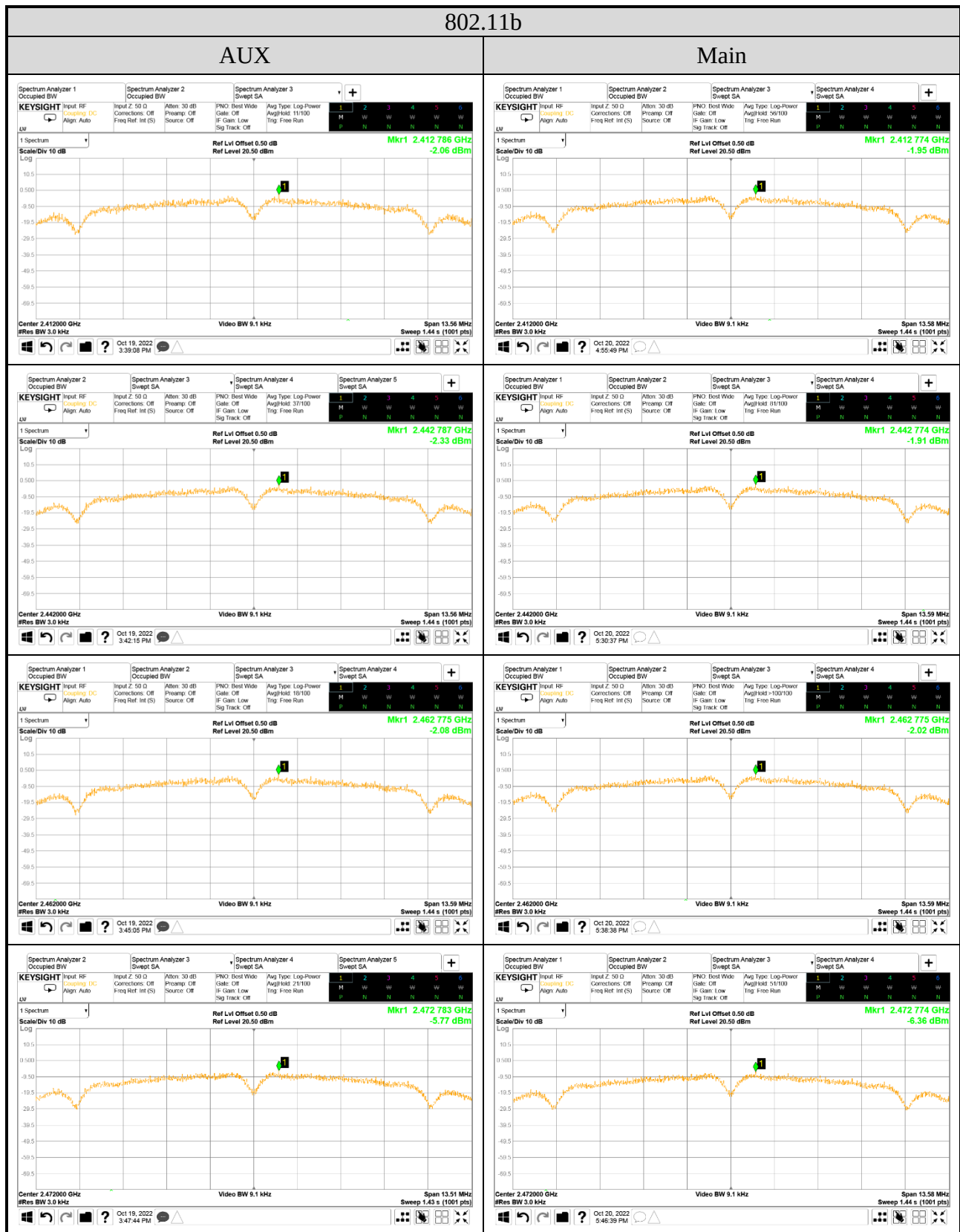
| Mode | Centre Frequency (MHz) | Power Spectral Density (dBm) | Limit       |
|------|------------------------|------------------------------|-------------|
| BLE  | 2402                   | -11.61                       | <8 dBm/3kHz |
|      | 2440                   | -11.22                       |             |
|      | 2480                   | -10.78                       |             |

Note: All results have been included cable loss.

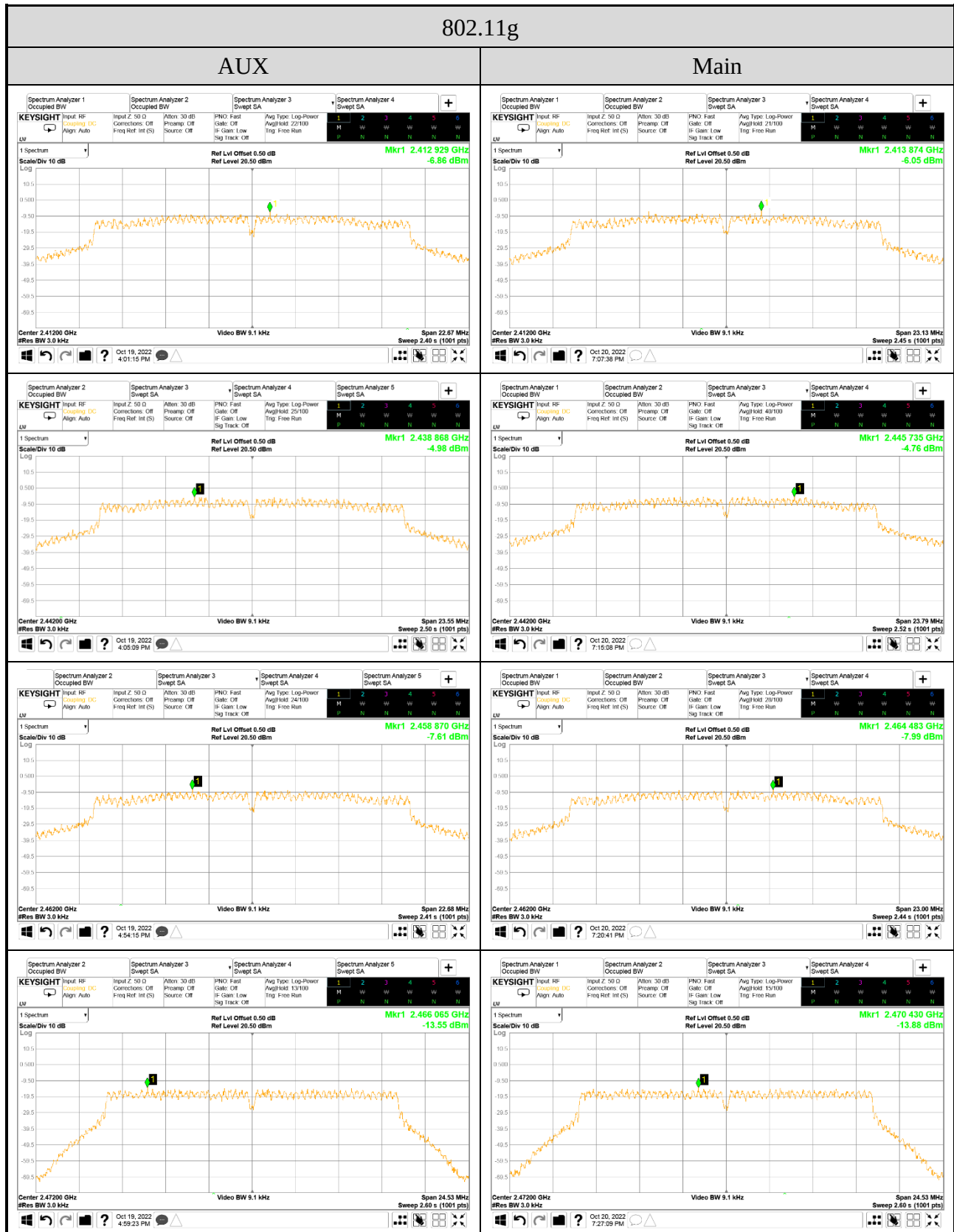
**Audix Technology Corp.**  
No. 491, Zhongfu Rd., Linkou Dist.,  
New Taipei City 244, Taiwan

**Tel: +886 2 26099301**  
**Fax: +886 2 26099303**

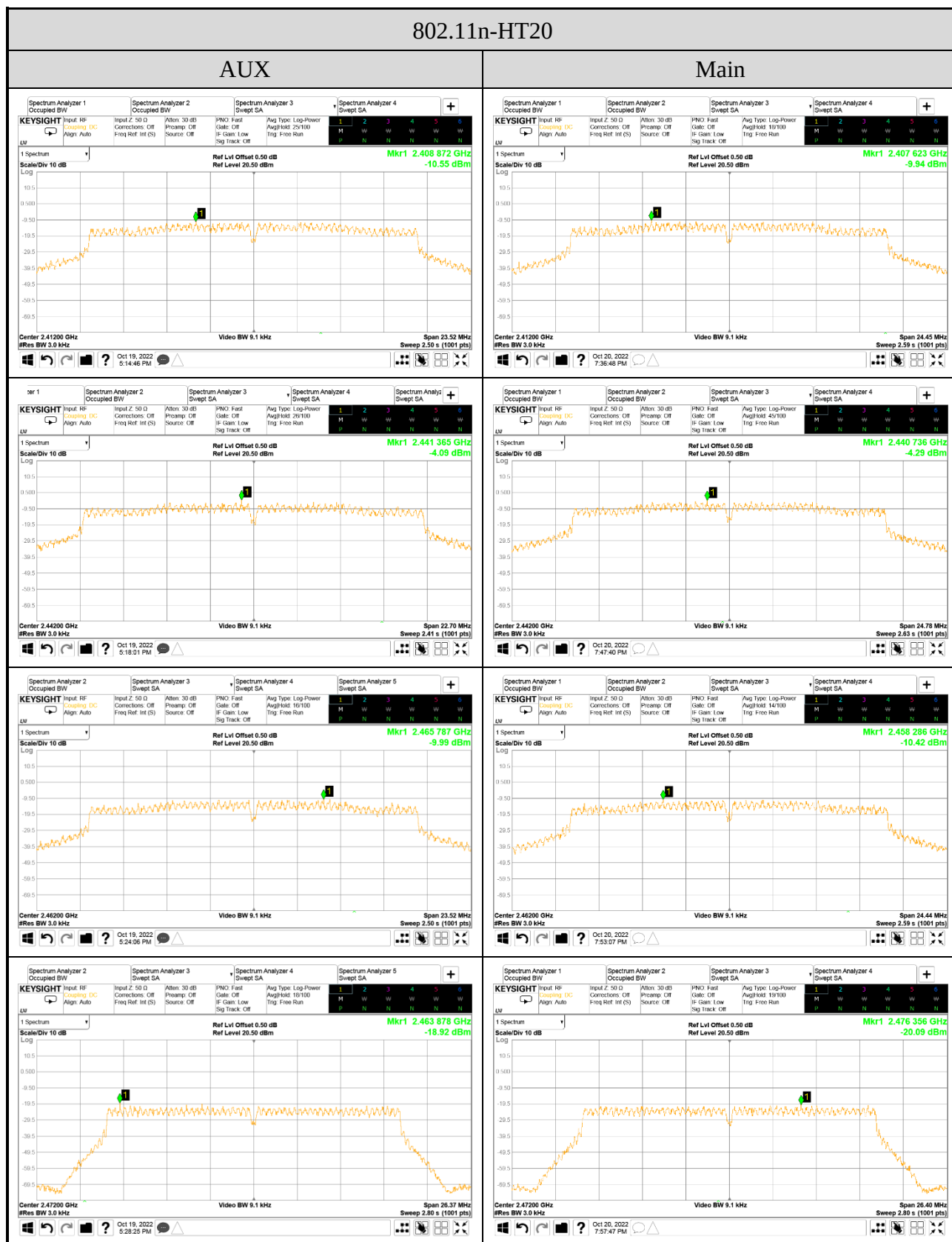
## A.6.2 Measurement Plots



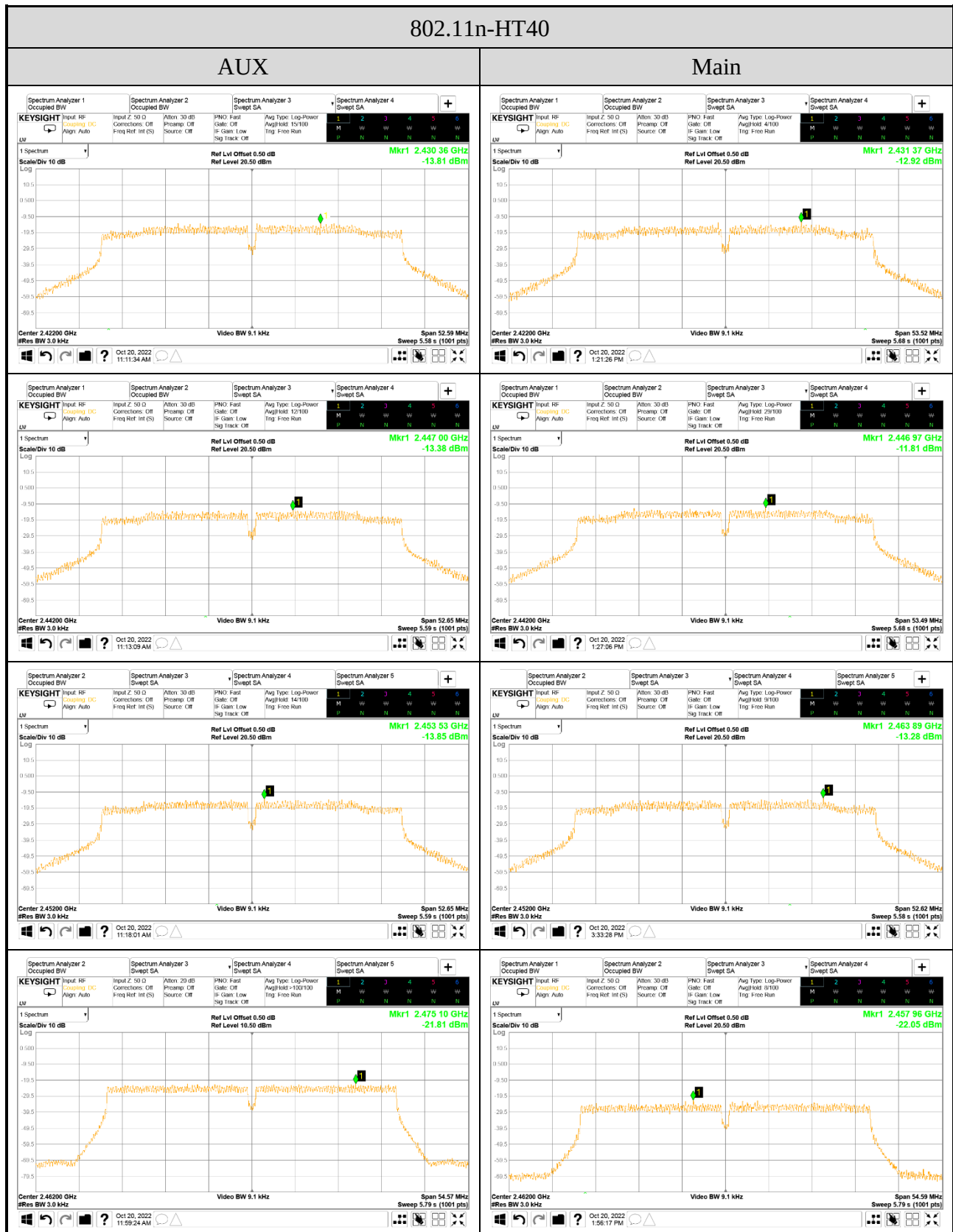
Note: All results have been included cable loss.



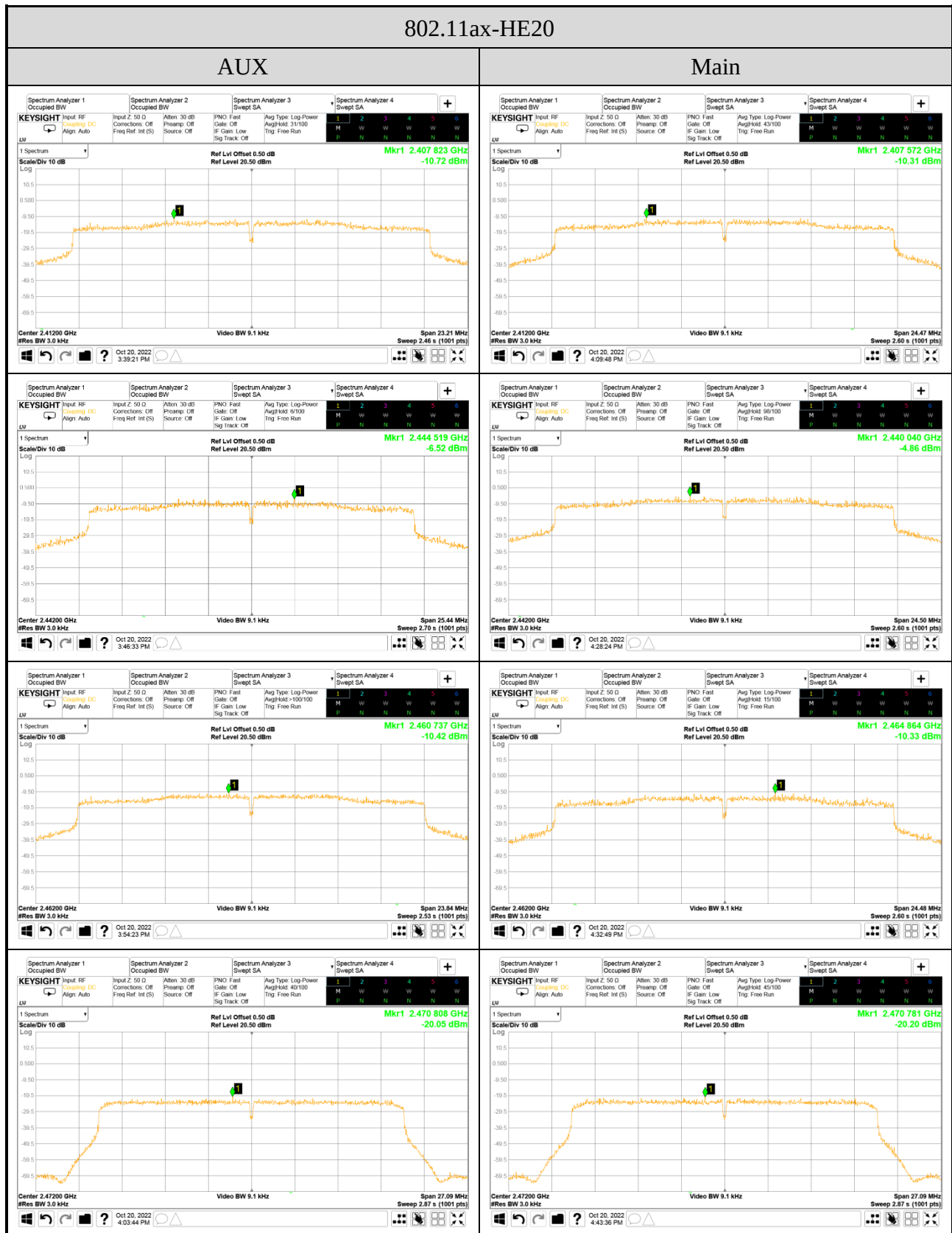
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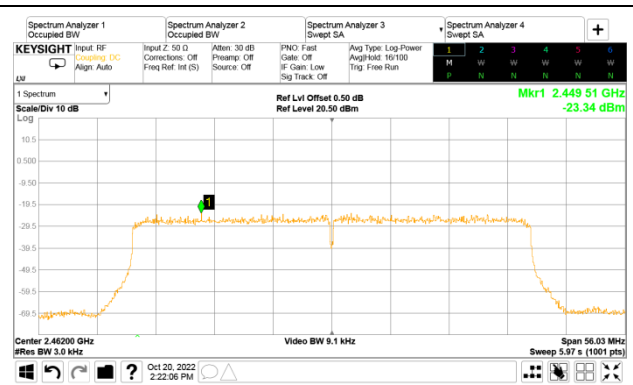
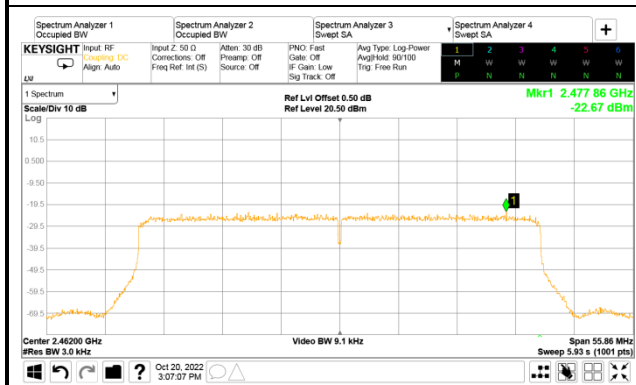
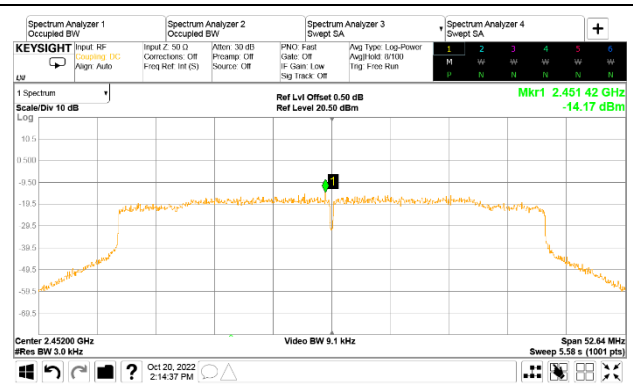
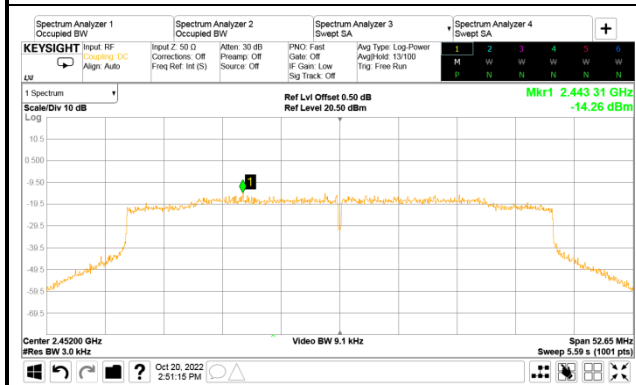
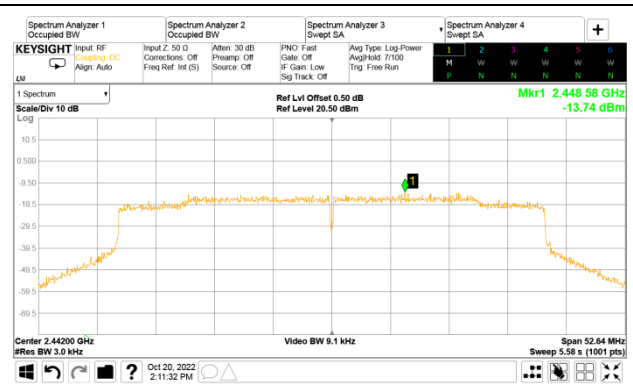
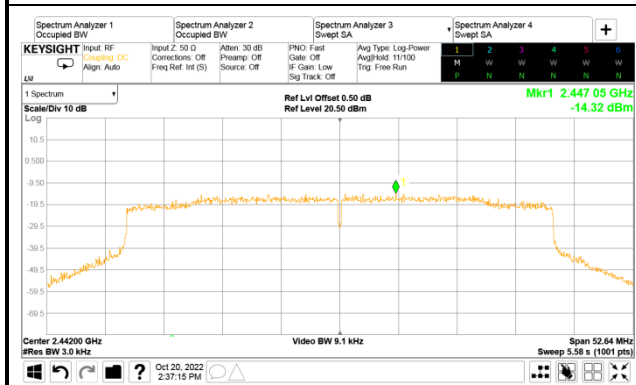
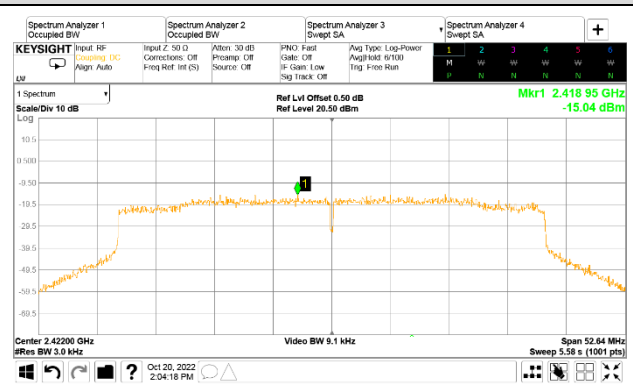
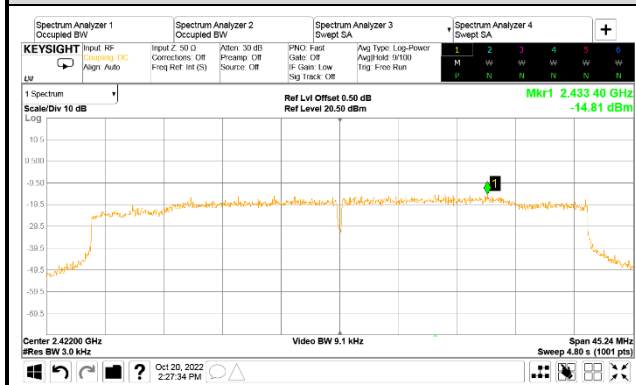


Note: All results have been included cable loss.

## 802.11ax-HE40

### AUX

### Main



Note: All results have been included cable loss.

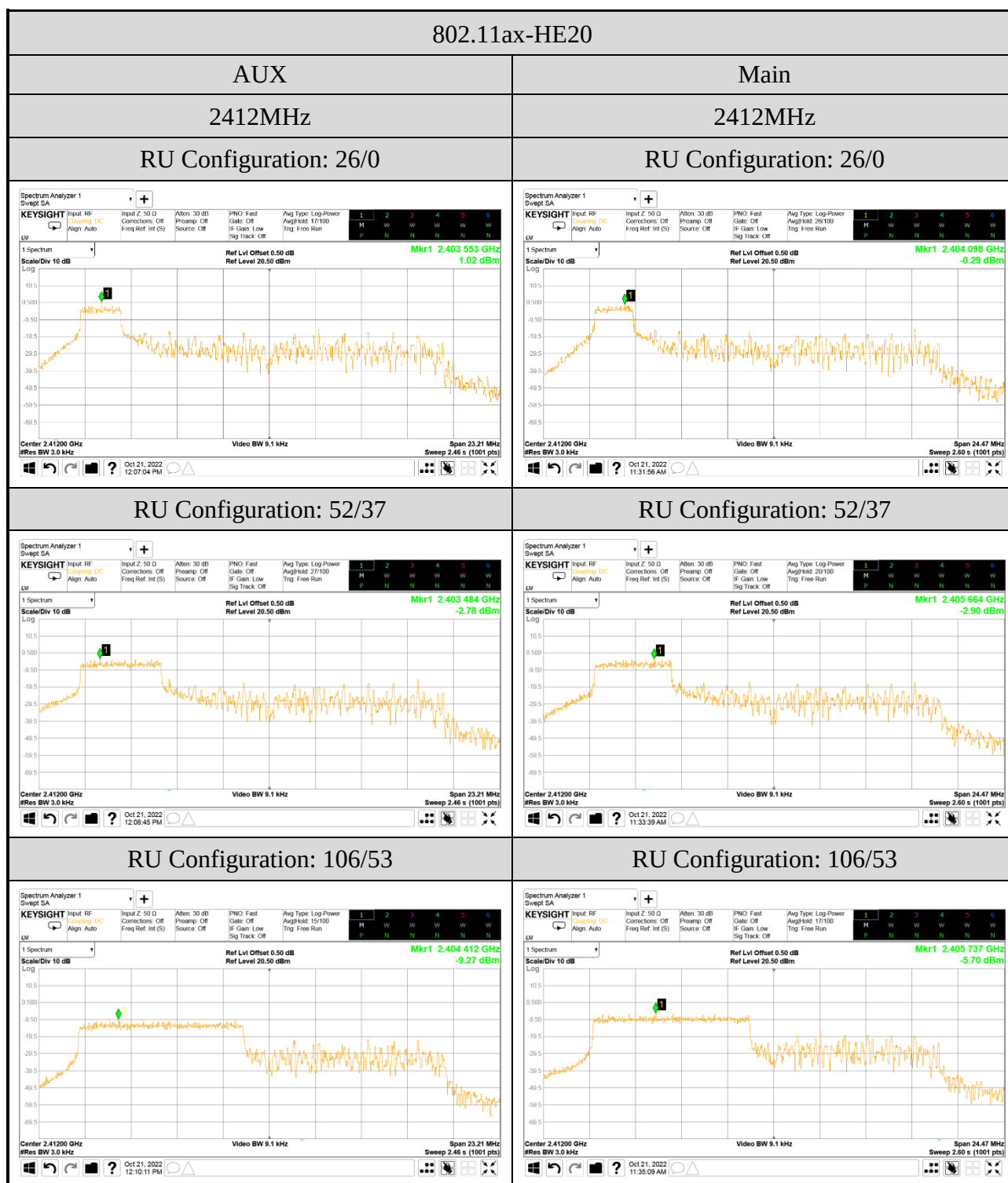
**Audix Technology Corp.**

No. 491, Zhongfu Rd., Linkou Dist.,

New Taipei City 244, Taiwan

**Tel: +886 2 26099301**

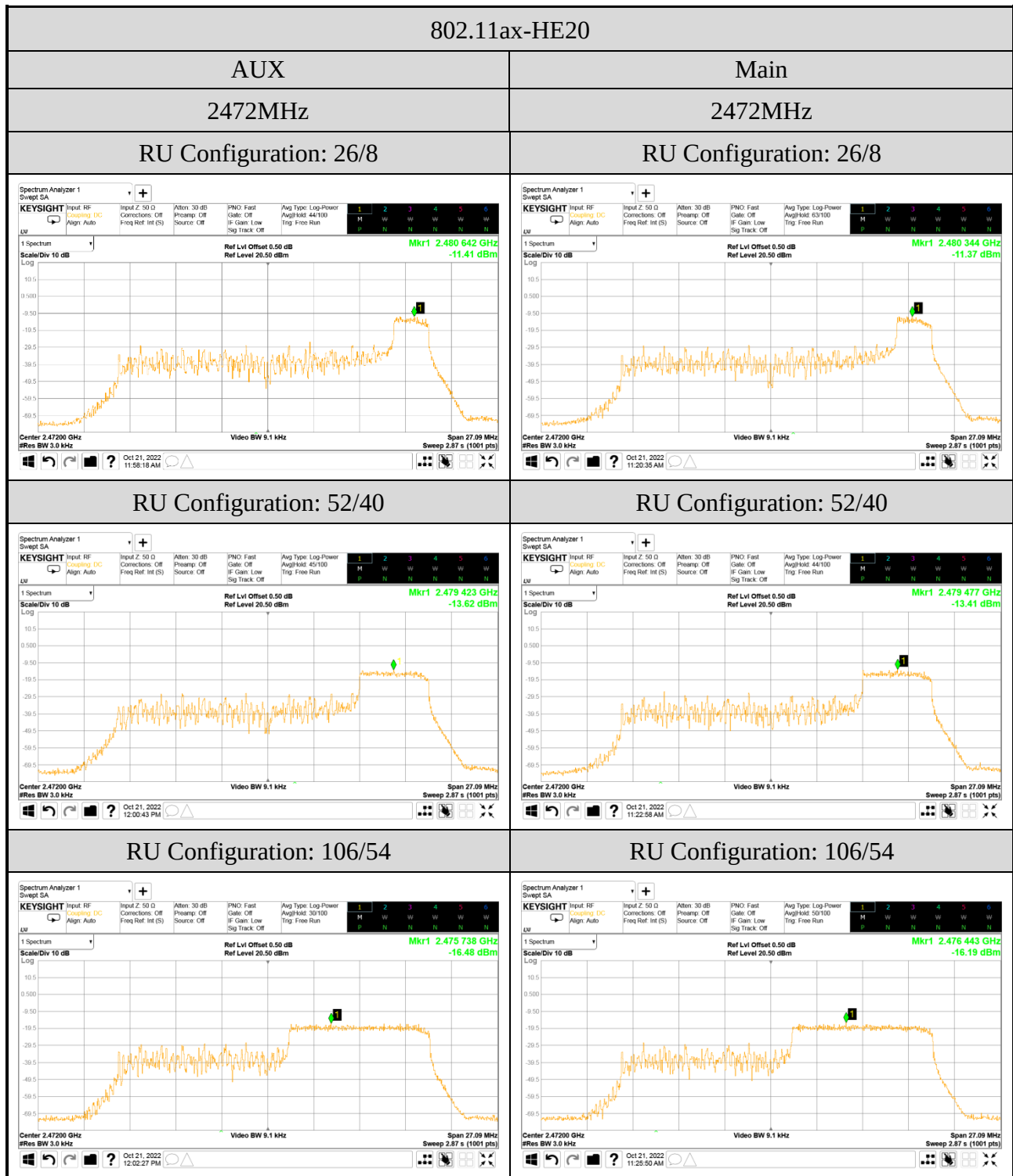
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Note: All results have been included cable loss.

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No. 491, Zhongfu Rd., Linkou Dist.,  
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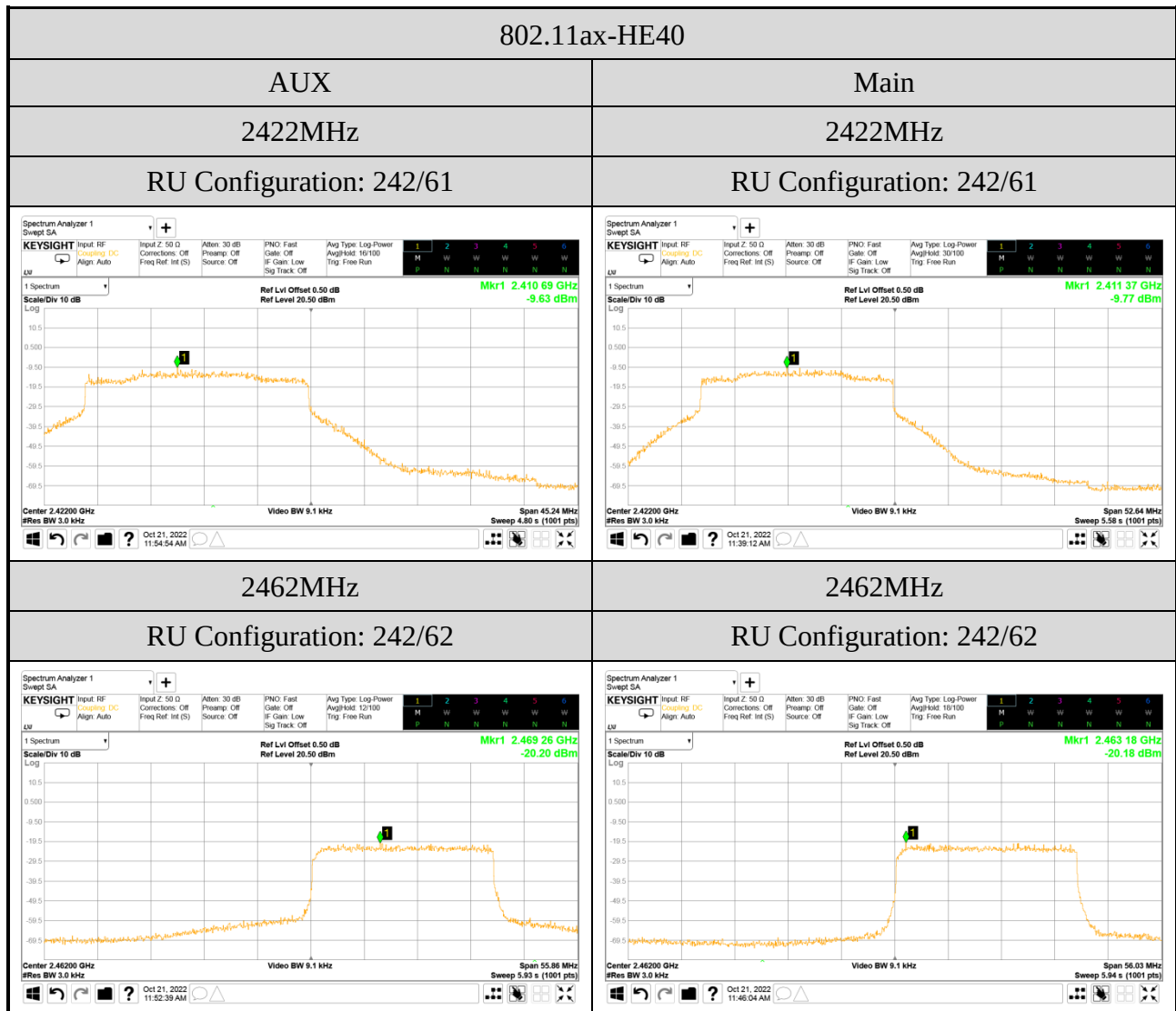
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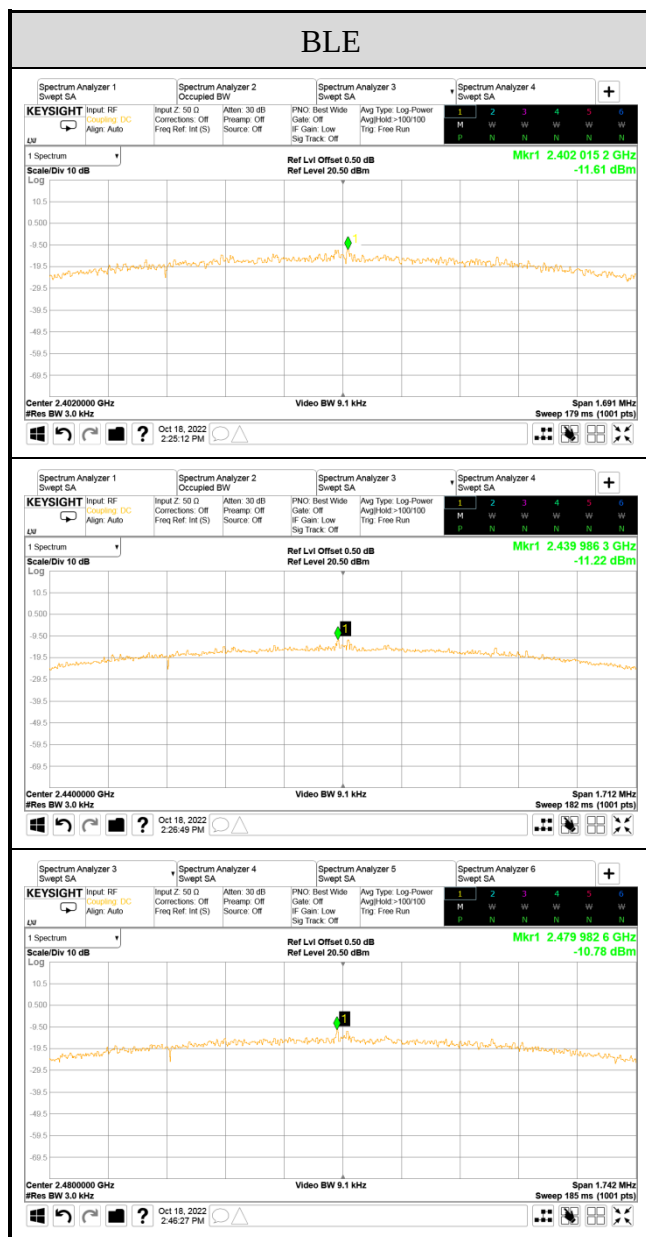
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