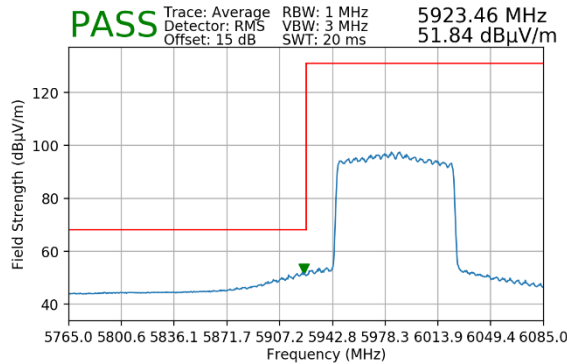
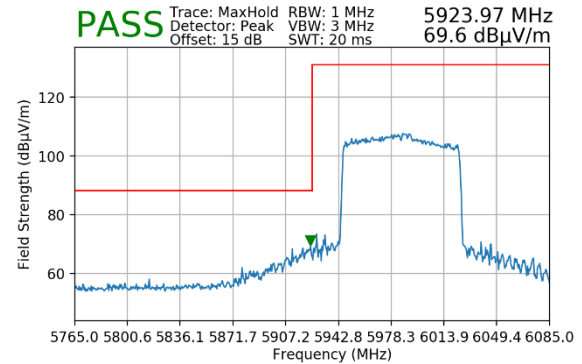


## 7.8.5 MIMO Radiated Band Edge Measurements (80MHz BW)

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5985MHz  |
| Channel:                  | 7        |

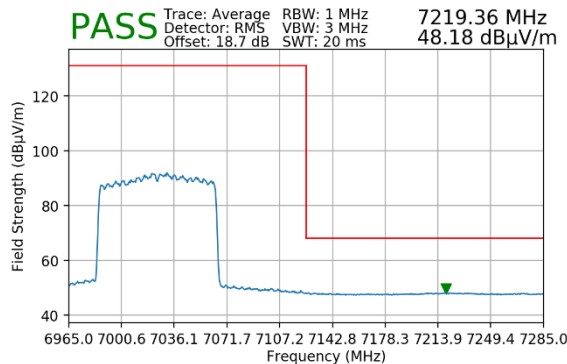


**Plot 7-70. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)**

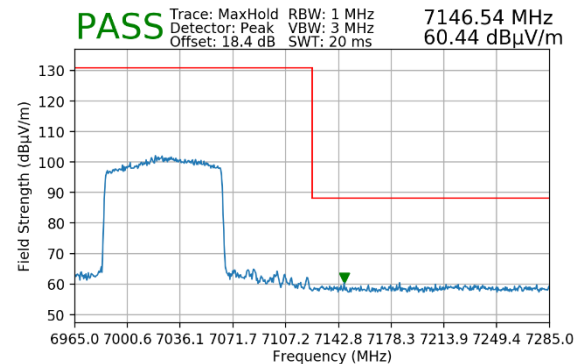


**Plot 7-71. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)**

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 7025MHz  |
| Channel:                  | 215      |



**Plot 7-72. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)**

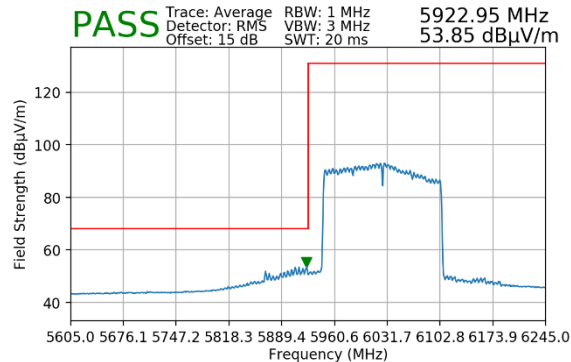


**Plot 7-73. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)**

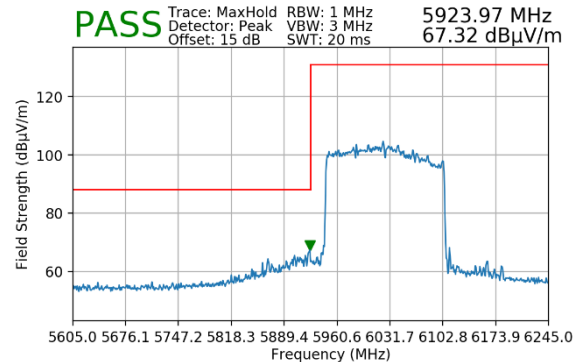
|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-09.A3L | Test Dates:<br>6/3 - 7/29/2025 | EUT Type:<br>Portable Tablet | Page 80 of 91                     |

## 7.8.6 MIMO Radiated Band Edge Measurements (160MHz BW)

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 6025MHz  |
| Channel:                  | 15       |

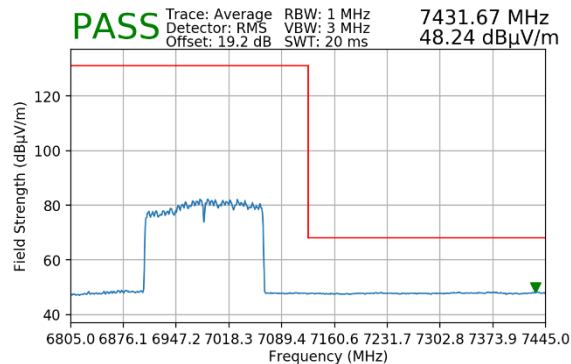


**Plot 7-74. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)**

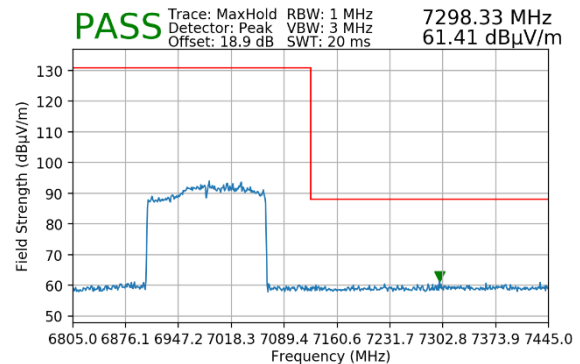


**Plot 7-75. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)**

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 6985MHz  |
| Channel:                  | 207      |



**Plot 7-76. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)**



**Plot 7-77. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)**

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-09.A3L | Test Dates:<br>6/3 - 7/29/2025 | EUT Type:<br>Portable Tablet | Page 81 of 91                     |

## 7.9 Line Conducted Test Data

### Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst-case emissions are reported in this section.

**All conducted emissions must not exceed the limits shown in the table below, per Section 15.207.**

| Frequency of emission (MHz) | Conducted Limit (dB $\mu$ V) |           |
|-----------------------------|------------------------------|-----------|
|                             | Quasi-peak                   | Average   |
| 0.15 – 0.5                  | 66 to 56*                    | 56 to 46* |
| 0.5 – 5                     | 56                           | 46        |
| 5 – 30                      | 60                           | 50        |

**Table 7-22. Conducted Limits**

\*Decreases with the logarithm of the frequency.

### Test Procedures Used

ANSI C63.10:2020, Section 6.2

### Test Settings

#### Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest.
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize.

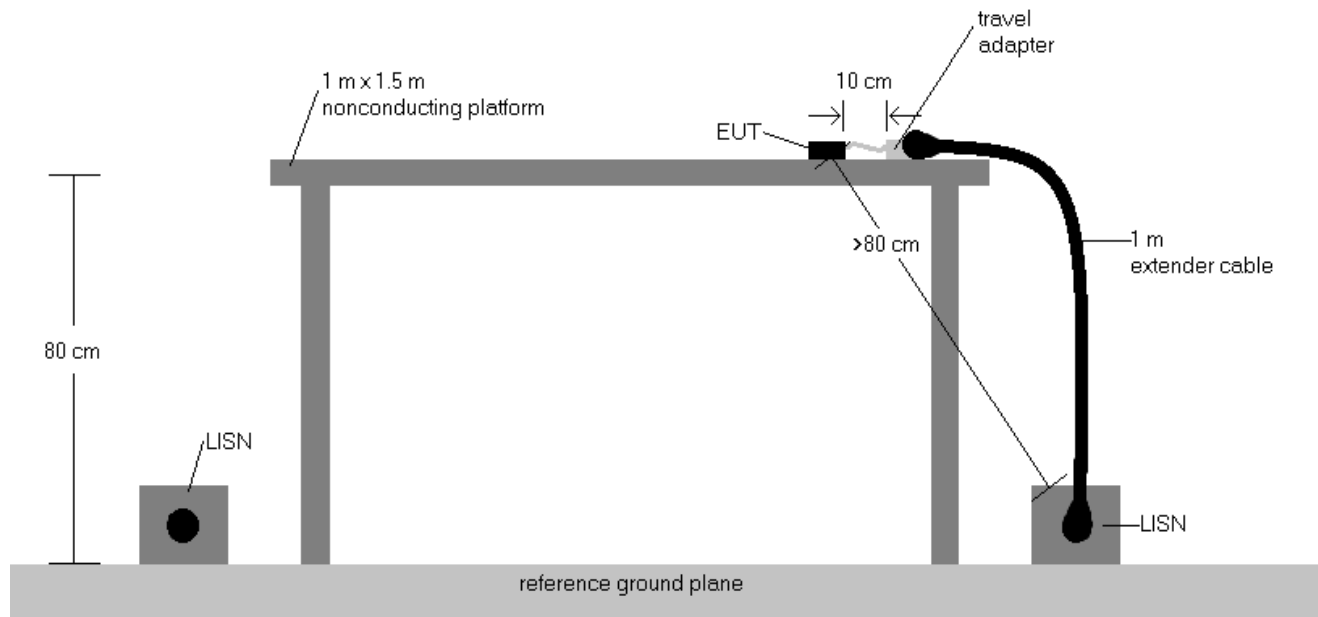
#### Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest.
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize.

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-09.A3L | Test Dates:<br>6/3 - 7/29/2025 | EUT Type:<br>Portable Tablet | Page 82 of 91                     |

## Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

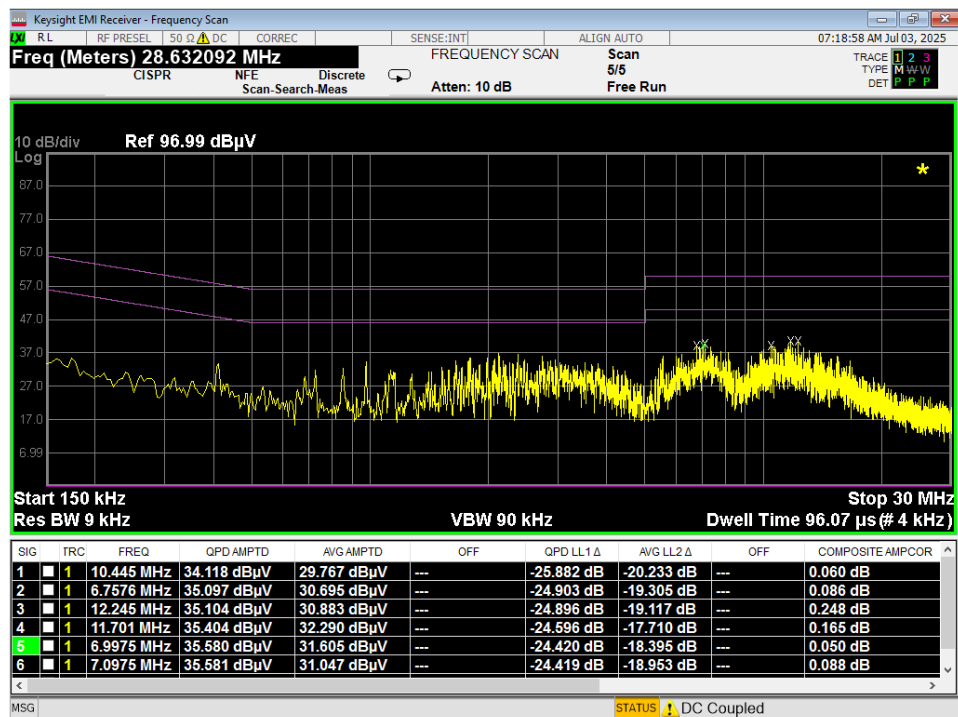


**Figure 7-13. Test Instrument & Measurement Setup**

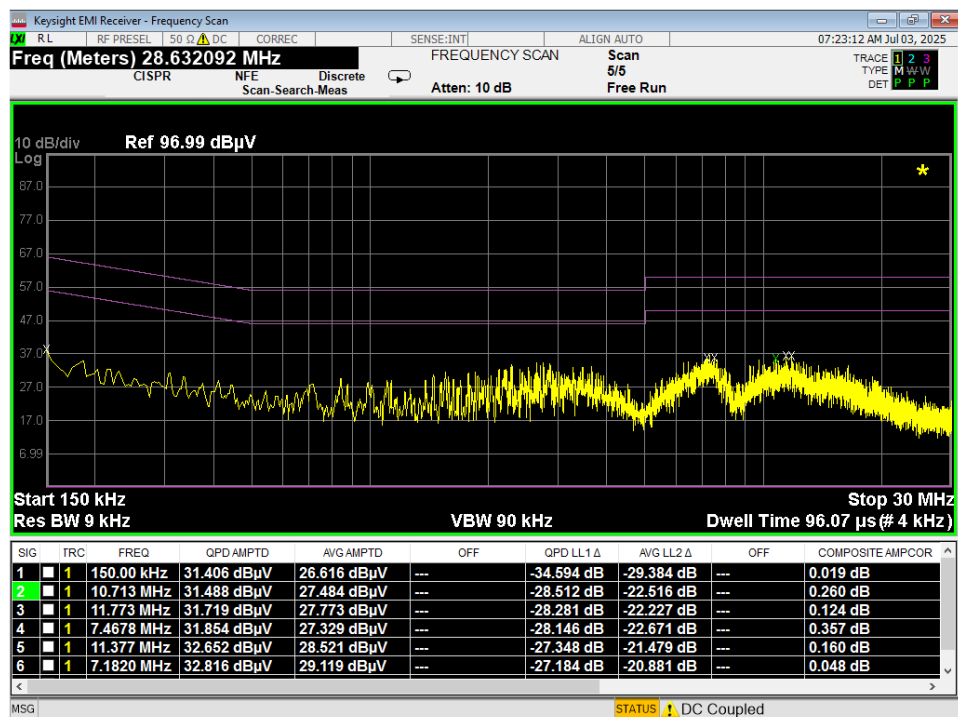
## Test Notes

1. All modes of operation were investigated, and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz is specified in 15.207.
3.  $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4.  $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5.  $\text{Margin (dB)} = \text{QP/AV Limit (dB}\mu\text{V)} - \text{QP/AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

|                                                    |                                       |                                     |                                          |
|----------------------------------------------------|---------------------------------------|-------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMX730<br><b>IC:</b> 649E-SMX730 | <b>MEASUREMENT REPORT</b>             |                                     | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2505130049-09.A3L     | <b>Test Dates:</b><br>6/3 - 7/29/2025 | <b>EUT Type:</b><br>Portable Tablet | Page 83 of 91                            |

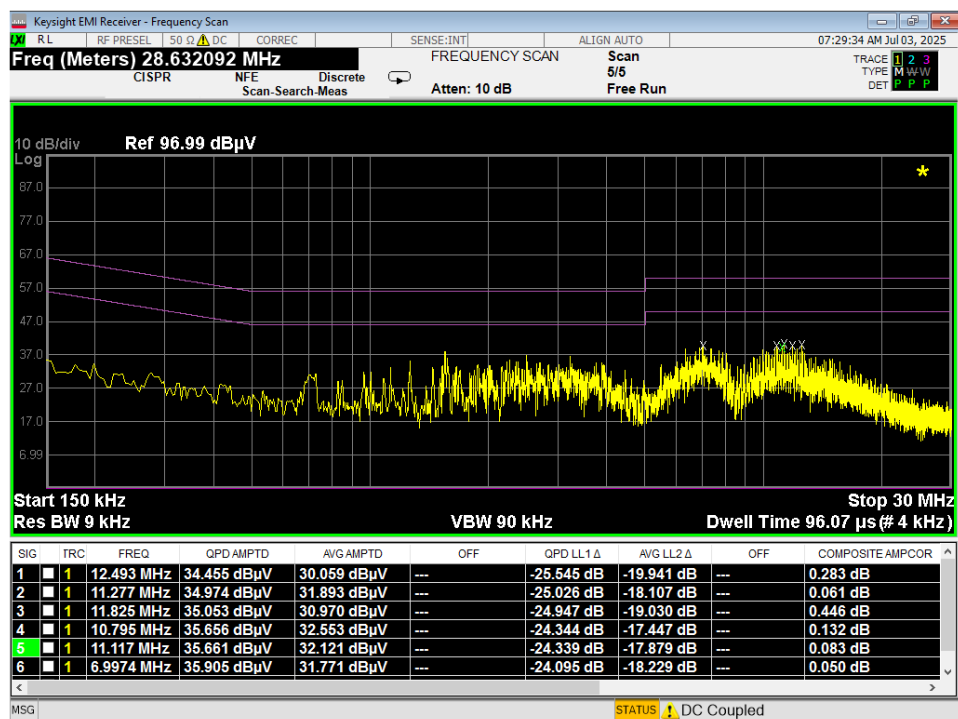


Plot 7-78. Line Conducted Plot with 802.11ax UNII Band 5 (L1)

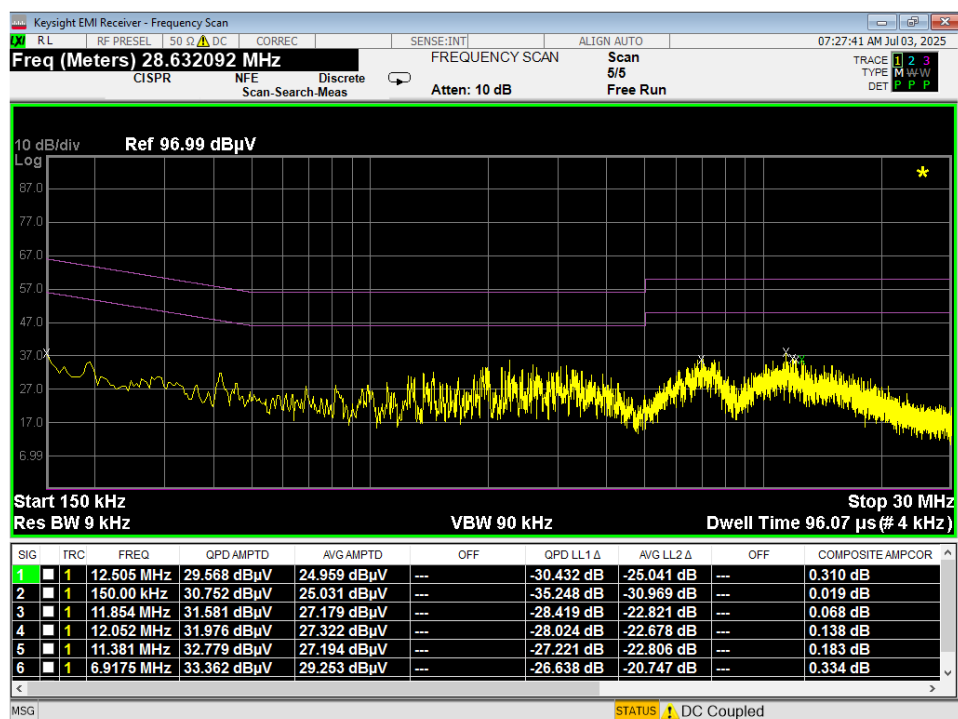


Plot 7-79. Line Conducted Plot with 802.11ax UNII Band 5 (N)

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-09.A3L | Test Dates:<br>6/3 - 7/29/2025 | EUT Type:<br>Portable Tablet | Page 84 of 91                     |

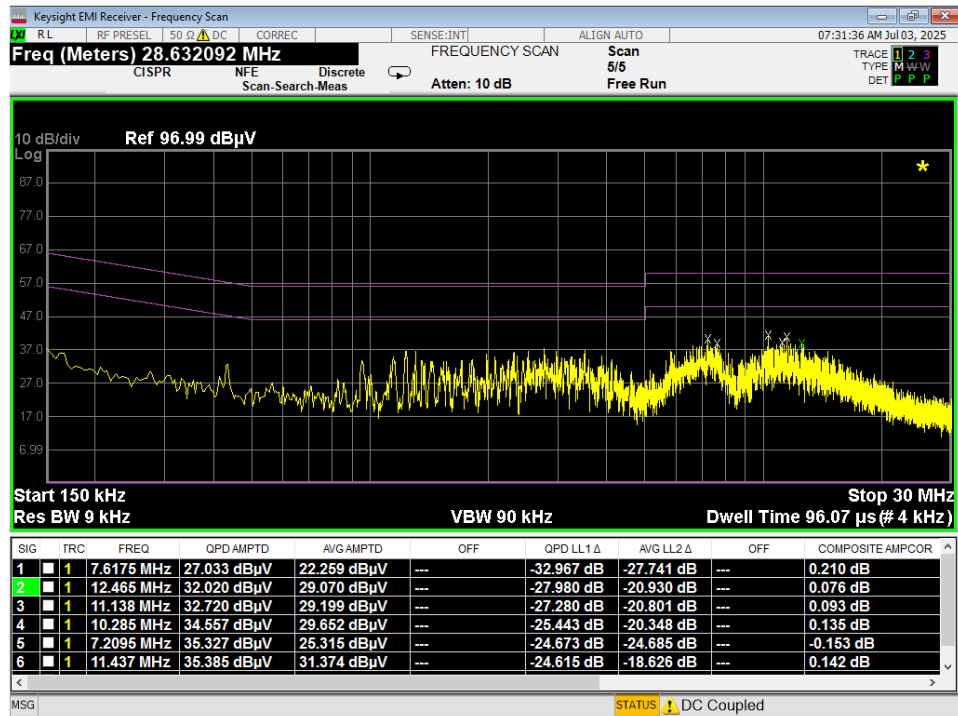


Plot 7-80. Line Conducted Plot with 802.11ax UNII Band 6 (L1)

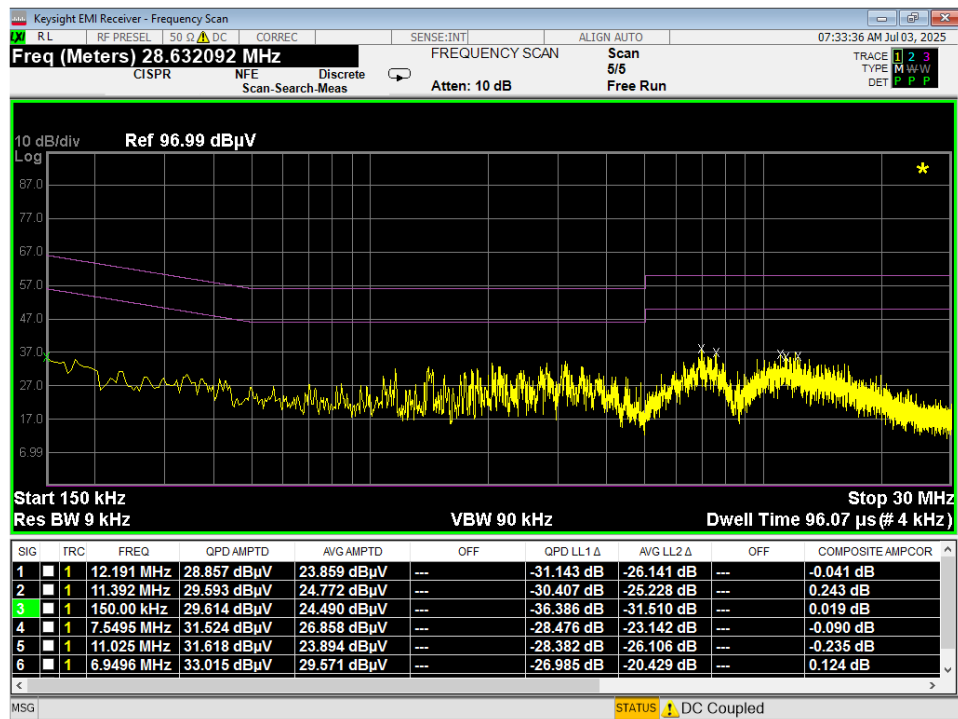


Plot 7-81. Line Conducted Plot with 802.11ax UNII Band 6 (N)

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-09.A3L | Test Dates:<br>6/3 - 7/29/2025 | EUT Type:<br>Portable Tablet | Page 85 of 91                     |

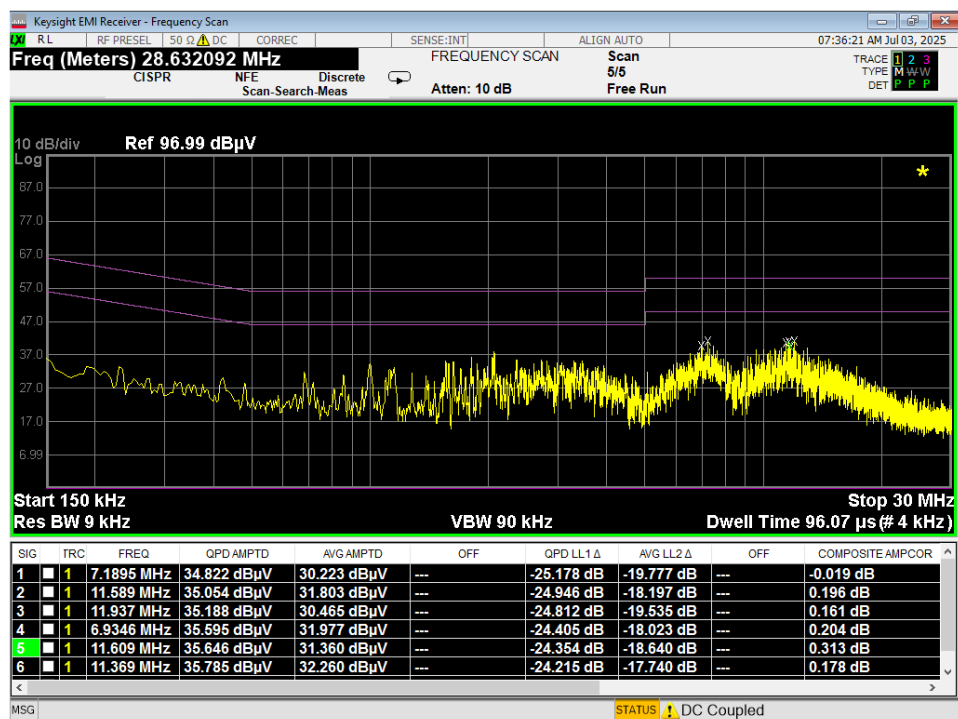


Plot 7-82. Line Conducted Plot with 802.11ax UNII Band 7 (L1)

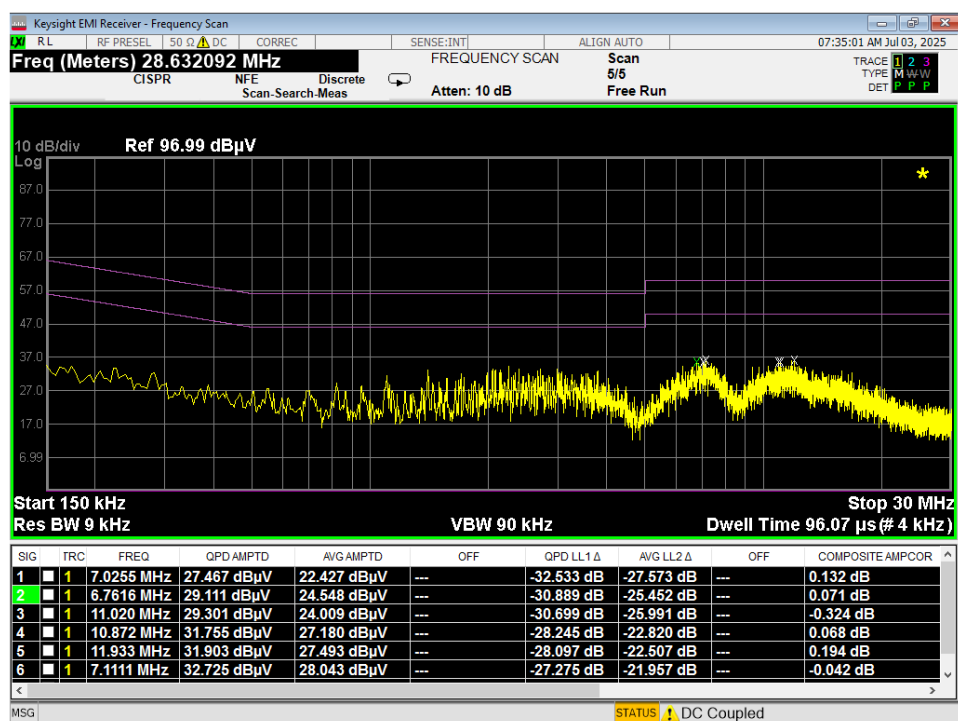


Plot 7-83. Line Conducted Plot with 802.11ax UNII Band 7 (N)

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-09.A3L | Test Dates:<br>6/3 - 7/29/2025 | EUT Type:<br>Portable Tablet | Page 86 of 91                     |



Plot 7-84. Line Conducted Plot with 802.11ax UNII Band 8 (L1)



Plot 7-85. Line Conducted Plot with 802.11ax UNII Band 8 (N)

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-09.A3L | Test Dates:<br>6/3 - 7/29/2025 | EUT Type:<br>Portable Tablet | Page 87 of 91                     |

## 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Tablet FCC ID: A3LSMX730, IC:649E-SMX730** is in compliance with FCC Part Subpart E (15.407) of the FCC rules and RSS-248 Issue 3 of the ISED Canada rules for operation as a Dual Client Device. The data referenced from FCC ID: A3LSMX736B (Model SM-X736B) included in this report have been reviewed and are deemed acceptable to support the compliance of **FCC ID: A3LSMX730, IC: 649E-SMX730**.

|                                                    |                                       |                                     |                                          |
|----------------------------------------------------|---------------------------------------|-------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMX730<br><b>IC:</b> 649E-SMX730 | <b>MEASUREMENT REPORT</b>             |                                     | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2505130049-09.A3L     | <b>Test Dates:</b><br>6/3 - 7/29/2025 | <b>EUT Type:</b><br>Portable Tablet | Page 88 of 91                            |

## 9.0 APPENDIX A – DATA REFERENCING SPOT-CHECKS

### Overview

The spot-check data presented in this section was measured on the variant model following the guidance of the FCC's Data Referencing guidance in KDB 484596 D01 v03. Each spot-check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device. For the worst-case RSE data, the measurement is determined by an actual emission and not by noise floor.

All test cases were performed to verify the variant EUT is still in compliance with the spot-checked results to the reference device and was performed using the guidance of ANSI C63.10-2020.

### Notes

- Each spot check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device.

### Results

| FCC Rules/ISED Rules                                                    | Test Item                    | Test Case                               | Units  | Limit | Reference Model:<br>SM-X736B | Variant Model:<br>SM-X730 | Deviation<br>(dB) | Max<br>Deviation<br>(dB) | Pass/Fail |
|-------------------------------------------------------------------------|------------------------------|-----------------------------------------|--------|-------|------------------------------|---------------------------|-------------------|--------------------------|-----------|
| 2.1046, 15.407(a)(7),<br>15.407(a)(8)/RSS-248(4.5.3),<br>RSS-248(4.5.5) | Conducted Output Power       | 802.11ax 20MHz - Lpi Ch. 45             | dBm    | -     | 12.72                        | 12.88                     | 0.16              | 1                        | PASS      |
|                                                                         |                              | 802.11ax 20MHz - Lpi Ch. 105            | dBm    | -     | 13.45                        | 13.64                     | 0.19              | 1                        | PASS      |
|                                                                         |                              | 802.11ax 20MHz - Lpi Ch. 149            | dBm    | -     | 13.7                         | 13.75                     | 0.05              | 1                        | PASS      |
|                                                                         |                              | 802.11ax 20MHz - Lpi Ch. 209            | dBm    | -     | 13.01                        | 13.15                     | 0.14              | 1                        | PASS      |
| 15.407(d)(6)/RSS-248(4.7)                                               | Contention Based Protocol    | Ch. 53 - 20 MHz                         | dBm    | -62   | -68.00                       | -69.00                    | -1.00             | 2                        | PASS      |
| 15.209, 15.407(b)(6)/RSS-Gen(8.9)                                       | Radiated Spurious Emissions  | 802.11a MIMO Ch.2 - Average - 11870 MHz | dBμV/m | 53.98 | 39.95                        | 38.89                     | -1.06             | 3                        | PASS      |
|                                                                         | Radiated Band Edge Emissions | 802.11ax MIMO Ch.2 - Average            | dBμV/m | 68.2  | 63.31                        | 62.92                     | -0.39             | 3                        | PASS      |

Table 9-1. Summary of Spot-checks

### Conducted Spot-Checks – SM-X730

| 6GHz WIFI (20MHz 802.11ax MIMO) |               |         |                             |       |       | Directional<br>Ant. Gain<br>[dBi] | Max e.i.r.p<br>[dBm] | e.i.r.p Limit<br>[dBm] | e.i.r.p Margin<br>[dB] |
|---------------------------------|---------------|---------|-----------------------------|-------|-------|-----------------------------------|----------------------|------------------------|------------------------|
| Band                            | Freq<br>[MHz] | Channel | Avg. Conducted Powers [dBm] |       |       |                                   |                      |                        |                        |
|                                 |               |         | ANT1                        | ANT2  | MIMO  |                                   |                      |                        |                        |
| UNII-5                          | 6175          | 45      | 9.74                        | 9.99  | 12.88 | -3.34                             | 9.54                 | 24.00                  | -14.46                 |
| UNII-6                          | 6475          | 105     | 10.91                       | 10.32 | 13.64 | -4.24                             | 9.40                 | 24.00                  | -14.60                 |
| UNII-7                          | 6695          | 149     | 10.81                       | 10.67 | 13.75 | -4.18                             | 9.57                 | 24.00                  | -14.43                 |
| UNII-8                          | 6995          | 209     | 9.94                        | 10.34 | 13.15 | -4.96                             | 8.19                 | 24.00                  | -15.81                 |

Table 9-2. Conducted Output Power Measurements (Spot-check)

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-09.A3L | Test Dates:<br>6/3 - 7/29/2025 | EUT Type:<br>Portable Tablet | Page 89 of 91                     |

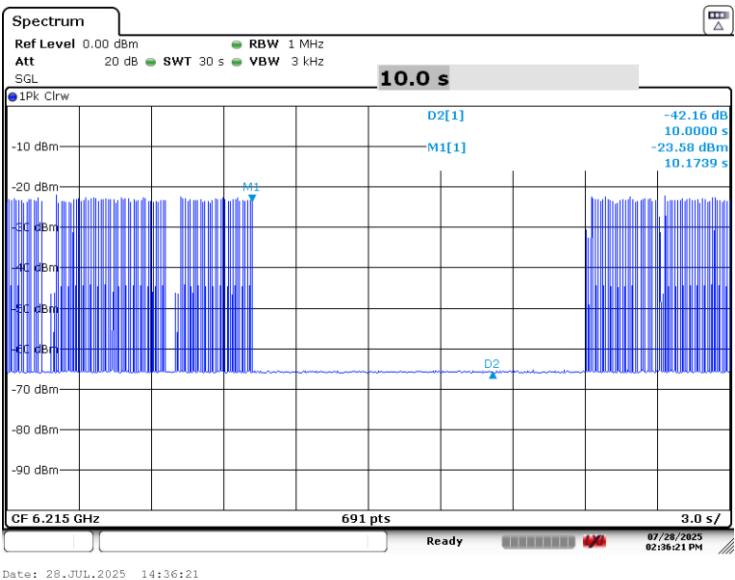


Table 9-3. CBP Timing Plot (Spot-check)

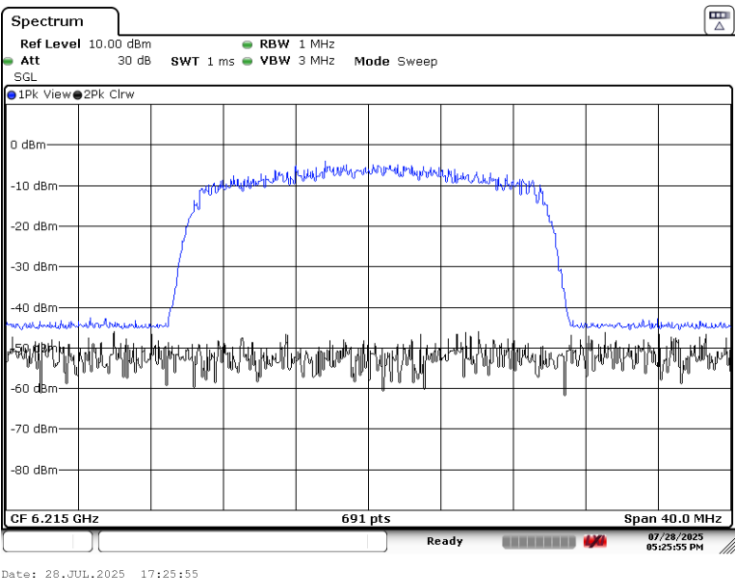


Table 9-4. Channel Move Plot (Spot-check)

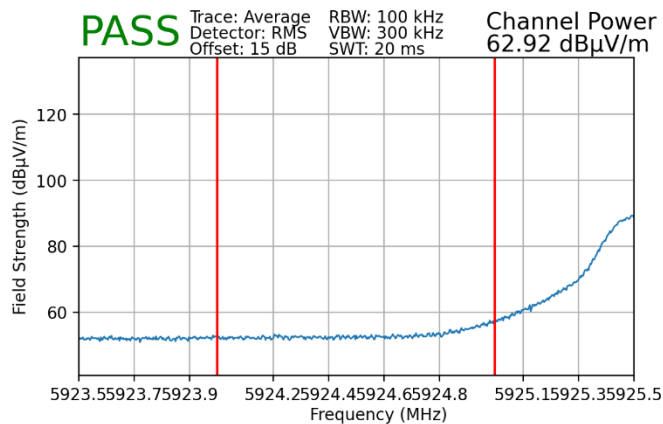
|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-09.A3L | Test Dates:<br>6/3 - 7/29/2025 | EUT Type:<br>Portable Tablet | Page 90 of 91                     |

## Radiated Spot-Checks – SM-X730

| Mode    | Antenna | UNII Band | Channel | Test Channel Freq. [MHz] | Restricted | Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|---------|---------|-----------|---------|--------------------------|------------|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|----------------|-------------|
| 802.11a | MIMO    | 5         | 2       | 5935                     | *          | 11870.00        | Average  | H               | -                   | -                          | -81.62               | 13.51       | 38.89                   | 53.98          | -15.09      |

**Table 9-5. RSE Measurements (Spot-check)**

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | 6Mbps    |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5935MHz  |
| Channel:                  | 2        |



**Plot 9-1. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5) (Spot-check)**

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-09.A3L | Test Dates:<br>6/3 - 7/29/2025 | EUT Type:<br>Portable Tablet | Page 91 of 91                     |