

**LTE CAT-M Band 26 Bandwidth 1.4 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1663                           | Vertical                    | -56.8              | -13                | -43.8              |
| 1663                           | Horizontal                  | -56.81             | -13                | -43.81             |
| 2493.875                       | Vertical                    | -54.75             | -13                | -41.75             |
| 2493.875                       | Horizontal                  | -53.03             | -13                | -40.03             |

**LTE CAT-M Band 26 Bandwidth 3 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1663                           | Vertical                    | -56.18             | -13                | -43.18             |
| 1663                           | Horizontal                  | -56.2              | -13                | -43.2              |
| 2493.875                       | Vertical                    | -54.5              | -13                | -41.5              |
| 2493.875                       | Horizontal                  | -53.18             | -13                | -40.18             |

**LTE CAT-M Band 26 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1663                           | Vertical                    | -56.45             | -13                | -43.45             |
| 1660.875                       | Horizontal                  | -56.59             | -13                | -43.59             |
| 2496                           | Vertical                    | -54.55             | -13                | -41.55             |
| 2493.875                       | Horizontal                  | -54.18             | -13                | -41.18             |

**LTE CAT-M Band 26 Bandwidth 10 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1667.25                        | Vertical                    | -57.11             | -13                | -44.11             |
| 1667.25                        | Horizontal                  | -57.25             | -13                | -44.25             |
| 2491.75                        | Vertical                    | -53.75             | -13                | -40.75             |
| 2491.75                        | Horizontal                  | -53.75             | -13                | -40.75             |

**LTE CAT-M Band 26 Bandwidth 15 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1663                           | Vertical                    | -55.8              | -13                | -42.8              |
| 1663                           | Horizontal                  | -55.82             | -13                | -42.82             |
| 2493.875                       | Vertical                    | -54.05             | -13                | -41.05             |
| 2489.625                       | Horizontal                  | -54.17             | -13                | -41.17             |

**LTE CAT-M Band 26 Bandwidth 1.4 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1663                           | Vertical                    | -61.03             | -13                | -48.03             |
| 1663                           | Horizontal                  | -60.03             | -13                | -47.03             |
| 2493.875                       | Vertical                    | -59.2              | -13                | -46.2              |
| 2493.875                       | Horizontal                  | -57.5              | -13                | -44.5              |
| 3326.875                       | Vertical                    | -58.3              | -13                | -45.3              |
| 3326.875                       | Horizontal                  | -57.03             | -13                | -44.03             |

**LTE CAT-M Band 26 Bandwidth 3 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1660.875                       | Vertical                    | -59.93             | -13                | -46.93             |
| 1663                           | Horizontal                  | -62.03             | -13                | -49.03             |
| 2493.875                       | Vertical                    | -59.85             | -13                | -46.85             |
| 2496                           | Horizontal                  | -57.80             | -13                | -44.8              |
| 3326.875                       | Vertical                    | -59.26             | -13                | -46.26             |
| 3326.875                       | Horizontal                  | -57.57             | -13                | -44.57             |

**LTE CAT-M Band 26 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1660.875                       | Vertical                    | -59.62             | -13                | -46.62             |
| 1660.875                       | Horizontal                  | -59.63             | -13                | -46.63             |
| 2496                           | Vertical                    | -59.71             | -13                | -46.71             |
| 2496                           | Horizontal                  | -57.19             | -13                | -44.19             |
| 3326.875                       | Vertical                    | -58.02             | -13                | -45.02             |
| 3326.875                       | Horizontal                  | -56.79             | -13                | -43.79             |

**LTE CAT-M Band 26 Bandwidth 10 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1658.75                        | Vertical                    | -60.61             | -13                | -47.61             |
| 1658.75                        | Horizontal                  | -59.62             | -13                | -46.62             |
| 2491.75                        | Vertical                    | -56.64             | -13                | -43.64             |
| 2491.75                        | Horizontal                  | -55.75             | -13                | -42.75             |
| 3322.625                       | Vertical                    | -57.86             | -13                | -44.86             |
| 3322.625                       | Horizontal                  | -55.54             | -13                | -42.54             |

**LTE CAT-M Band 26 Bandwidth 15 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1658.75                        | Vertical                    | -58.06             | -13                | -45.06             |
| 1658.75                        | Horizontal                  | -58.07             | -13                | -45.07             |
| 2496                           | Vertical                    | -55.12             | -13                | -42.12             |
| 2496                           | Horizontal                  | -55.14             | -13                | -42.14             |
| 3331.125                       | Vertical                    | -54.10             | -13                | -41.1              |
| 3331.125                       | Horizontal                  | -54.16             | -13                | -41.16             |

**LTE CAT-M Band 26 Bandwidth 1.4 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1698                           | Vertical                    | -56.82             | -13                | -43.82             |
| 1698                           | Horizontal                  | -56.92             | -13                | -43.92             |
| 2546.375                       | Vertical                    | -54.91             | -13                | -41.91             |
| 2546.375                       | Horizontal                  | -53.09             | -13                | -40.09             |

**LTE CAT-M Band 26 Bandwidth 3 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1698                           | Vertical                    | -56.2              | -13                | -43.2              |
| 1698                           | Horizontal                  | -56.31             | -13                | -43.31             |
| 2546.375                       | Vertical                    | -54.66             | -13                | -41.66             |
| 2546.375                       | Horizontal                  | -53.24             | -13                | -40.24             |

**LTE CAT-M Band 26 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1698                           | Vertical                    | -56.47             | -13                | -43.47             |
| 1695.875                       | Horizontal                  | -56.7              | -13                | -43.7              |
| 2548.5                         | Vertical                    | -54.71             | -13                | -41.71             |
| 2546.375                       | Horizontal                  | -54.24             | -13                | -41.24             |

**LTE CAT-M Band 26 Bandwidth 10 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1702.25                        | Vertical                    | -57.13             | -13                | -44.13             |
| 1702.25                        | Horizontal                  | -57.36             | -13                | -44.36             |
| 2544.25                        | Vertical                    | -53.91             | -13                | -40.91             |
| 2544.25                        | Horizontal                  | -53.81             | -13                | -40.81             |

**LTE CAT-M Band 26 Bandwidth 15 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1698                           | Vertical                    | -55.82             | -13                | -42.82             |
| 1698                           | Horizontal                  | -55.93             | -13                | -42.93             |
| 2546.375                       | Vertical                    | -54.21             | -13                | -41.21             |
| 2542.125                       | Horizontal                  | -54.23             | -13                | -41.23             |

**LTE CAT-M Band 66 Bandwidth 1.4 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3439.625                | Vertical             | -55.05      | -13         | -42.05      |
| 3439.625                | Horizontal           | -52.93      | -13         | -39.93      |
| 5159.875                | Vertical             | -52.96      | -13         | -39.96      |
| 5159.875                | Horizontal           | -54.64      | -13         | -41.64      |

**LTE CAT-M Band 66 Bandwidth 3 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3439.625                | Vertical             | -55.05      | -13         | -42.05      |
| 3439.625                | Horizontal           | -53.94      | -13         | -40.94      |
| 5159.875                | Vertical             | -55.35      | -13         | -42.35      |
| 5159.875                | Horizontal           | -53.94      | -13         | -40.94      |

**LTE CAT-M Band 66 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3441.75                 | Vertical             | -53.72      | -13         | -40.72      |
| 3441.75                 | Horizontal           | -53.66      | -13         | -40.66      |
| 5157.75                 | Vertical             | -53.91      | -13         | -40.91      |
| 5157.75                 | Horizontal           | -53.91      | -13         | -40.91      |

**LTE CAT-M Band 66 Bandwidth 10 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3443.875                       | Vertical                    | -53.26             | -13                | -40.26             |
| 3443.875                       | Horizontal                  | -53.21             | -13                | -40.21             |
| 5155.625                       | Vertical                    | -53.47             | -13                | -40.47             |
| 5162                           | Horizontal                  | -52.5              | -13                | -39.5              |

**LTE CAT-M Band 66 Bandwidth 15 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3437.5                         | Vertical                    | -53.21             | -13                | -40.21             |
| 3437.5                         | Horizontal                  | -53.14             | -13                | -40.14             |
| 5159.875                       | Vertical                    | -54.1              | -13                | -41.1              |
| 5153.5                         | Horizontal                  | -52.96             | -13                | -39.96             |

**LTE CAT-M Band 66 Bandwidth 20 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3446                           | Vertical                    | -53.08             | -13                | -40.08             |
| 3441.75                        | Horizontal                  | -53.17             | -13                | -40.17             |
| 5153.5                         | Vertical                    | -53.61             | -13                | -40.61             |
| 5155.625                       | Horizontal                  | -53.31             | -13                | -40.31             |



**LTE CAT-M Band 66 Bandwidth 1.4 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3509.625                | Vertical             | -56.35      | -13         | -43.35      |
| 3509.625                | Horizontal           | -56.06      | -13         | -43.06      |
| 5262.75                 | Vertical             | -56.80      | -13         | -43.8       |
| 5262.75                 | Horizontal           | -55.75      | -13         | -42.75      |

**LTE CAT-M Band 66 Bandwidth 3 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3509.625                | Vertical             | -55.50      | -13         | -42.5       |
| 3509.625                | Horizontal           | -55.44      | -13         | -42.44      |
| 5264.875                | Vertical             | -55.46      | -13         | -42.46      |
| 5264.875                | Horizontal           | -55.46      | -13         | -42.46      |

**LTE CAT-M Band 66 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3507.5                  | Vertical             | -55.21      | -13         | -42.21      |
| 3507.5                  | Horizontal           | -55.15      | -13         | -42.15      |
| 5264.875                | Vertical             | -55.46      | -13         | -42.46      |
| 5264.875                | Horizontal           | -55.46      | -13         | -42.46      |

**LTE CAT-M Band 66 Bandwidth 10 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3513.875                | Vertical             | -55.64      | -13         | -42.64      |
| 3513.875                | Horizontal           | -55.09      | -13         | -42.09      |
| 5267                    | Vertical             | -54.40      | -13         | -41.4       |
| 5269.125                | Horizontal           | -55.50      | -13         | -42.5       |

**LTE CAT-M Band 66 Bandwidth 15 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3511.75                 | Vertical             | -56.40      | -13         | -43.4       |
| 3511.75                 | Horizontal           | -55.54      | -13         | -42.54      |
| 5271.25                 | Vertical             | -55.67      | -13         | -42.67      |
| 5271.25                 | Horizontal           | -55.23      | -13         | -42.23      |

**LTE CAT-M Band 66 Bandwidth 20 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3503.25                 | Vertical             | -55.41      | -13         | -42.41      |
| 3511.75                 | Horizontal           | -55.04      | -13         | -42.04      |
| 5258.5                  | Vertical             | -54.82      | -13         | -41.82      |
| 5258.5                  | Horizontal           | -54.93      | -13         | -41.93      |

**LTE CAT-M Band 66 Bandwidth 1.4 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3579.625                       | Vertical                    | -54.93             | -13                | -41.93             |
| 3579.625                       | Horizontal                  | -52.9              | -13                | -39.9              |
| 5369.875                       | Vertical                    | -52.98             | -13                | -39.98             |
| 5369.875                       | Horizontal                  | -54.56             | -13                | -41.56             |

**LTE CAT-M Band 66 Bandwidth 3 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3579.625                       | Vertical                    | -54.93             | -13                | -41.93             |
| 3579.625                       | Horizontal                  | -53.91             | -13                | -40.91             |
| 5369.875                       | Vertical                    | -55.37             | -13                | -42.37             |
| 5369.875                       | Horizontal                  | -53.86             | -13                | -40.86             |

**LTE CAT-M Band 66 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3581.75                        | Vertical                    | -53.6              | -13                | -40.6              |
| 3581.75                        | Horizontal                  | -53.63             | -13                | -40.63             |
| 5367.75                        | Vertical                    | -53.93             | -13                | -40.93             |
| 5367.75                        | Horizontal                  | -53.83             | -13                | -40.83             |

**LTE CAT-M Band 66 Bandwidth 10 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3583.875                       | Vertical                    | -53.14             | -13                | -40.14             |
| 3583.875                       | Horizontal                  | -53.18             | -13                | -40.18             |
| 5365.625                       | Vertical                    | -53.49             | -13                | -40.49             |
| 5372                           | Horizontal                  | -52.42             | -13                | -39.42             |

**LTE CAT-M Band 66 Bandwidth 15 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3577.5                         | Vertical                    | -53.09             | -13                | -40.09             |
| 3577.5                         | Horizontal                  | -53.11             | -13                | -40.11             |
| 5369.875                       | Vertical                    | -54.12             | -13                | -41.12             |
| 5363.5                         | Horizontal                  | -52.88             | -13                | -39.88             |

**LTE CAT-M Band 66 Bandwidth 20 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3586                           | Vertical                    | -52.96             | -13                | -39.96             |
| 3581.75                        | Horizontal                  | -53.14             | -13                | -40.14             |
| 5363.5                         | Vertical                    | -53.63             | -13                | -40.63             |
| 5365.625                       | Horizontal                  | -53.23             | -13                | -40.23             |

**LTE NB-IOT Band 2 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3698.25                 | Vertical             | -55.22      | -13         | -42.22      |
| 3698.25                 | Horizontal           | -55.21      | -13         | -42.21      |
| 5548.875                | Vertical             | -53.24      | -13         | -40.24      |
| 5548.875                | Horizontal           | -53.22      | -13         | -40.22      |

**LTE NB-IOT Band 2 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3758.25                 | Vertical             | -47.95      | -13         | -34.95      |
| 3758.25                 | Horizontal           | -47.06      | -13         | -34.06      |
| 5638.875                | Vertical             | -45.06      | -13         | -32.06      |
| 5638.875                | Horizontal           | -45.04      | -13         | -32.04      |

**LTE NB-IOT Band 2 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3818.25                 | Vertical             | -55.1       | -13         | -42.1       |
| 3818.25                 | Horizontal           | -55.18      | -13         | -42.18      |
| 5728.875                | Vertical             | -53.26      | -13         | -40.26      |
| 5728.875                | Horizontal           | -53.14      | -13         | -40.14      |

**LTE NB-IOT Band 4 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3417.875                | Vertical             | -56.67      | -13         | -43.67      |
| 3422.125                | Horizontal           | -55.93      | -13         | -42.93      |
| 5266.5                  | Vertical             | -57         | -13         | -44         |
| 5199                    | Horizontal           | -56.36      | -13         | -43.36      |
| 6930.875                | Vertical             | -56.86      | -13         | -43.86      |
| 6930.875                | Horizontal           | -55.8       | -13         | -42.8       |

**LTE NB-IOT Band 4 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3758.25                 | Vertical             | -47.95      | -13         | -34.95      |
| 3758.25                 | Horizontal           | -47.06      | -13         | -34.06      |
| 5638.875                | Vertical             | -45.06      | -13         | -32.06      |
| 5638.875                | Horizontal           | -45.04      | -13         | -32.04      |

**LTE NB-IOT Band 4 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3507.875                | Vertical             | -56.55      | -13         | -43.55      |
| 3512.125                | Horizontal           | -55.9       | -13         | -42.9       |
| 5266.5                  | Vertical             | -57.02      | -13         | -44.02      |
| 5199                    | Horizontal           | -56.28      | -13         | -43.28      |
| 6930.875                | Vertical             | -56.74      | -13         | -43.74      |
| 6930.875                | Horizontal           | -55.77      | -13         | -42.77      |

**LTE NB-IOT Band 5 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1646.5                  | Vertical             | -52.82      | -13         | -39.82      |
| 1646.5                  | Horizontal           | -55.4       | -13         | -42.4       |
| 2473.375                | Vertical             | -53.37      | -13         | -40.37      |
| 2473.375                | Horizontal           | -53.46      | -13         | -40.46      |
| 3296                    | Vertical             | -43.02      | -13         | -30.02      |
| 3296                    | Horizontal           | -43.07      | -13         | -30.07      |

**LTE NB-IOT Band 5 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1671.5                  | Vertical             | -56.11      | -13         | -43.11      |
| 1671.5                  | Horizontal           | -55.82      | -13         | -42.82      |
| 2508.75                 | Vertical             | -57.67      | -13         | -44.67      |
| 2508.75                 | Horizontal           | -57.77      | -13         | -44.77      |
| 3343.875                | Vertical             | -54.06      | -13         | -41.06      |
| 3343.875                | Horizontal           | -53.85      | -13         | -40.85      |

**LTE NB-IOT Band 5 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1696.5                  | Vertical             | -52.7       | -13         | -39.7       |
| 1696.5                  | Horizontal           | -55.37      | -13         | -42.37      |
| 2548.375                | Vertical             | -53.39      | -13         | -40.39      |
| 2548.375                | Horizontal           | -53.38      | -13         | -40.38      |
| 3396                    | Vertical             | -42.9       | -13         | -29.9       |
| 3396                    | Horizontal           | -43.04      | -13         | -30.04      |

**LTE NB-IOT Band 12 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1397.375                       | Vertical                    | -49.36             | -13                | -36.36             |
| 1397.375                       | Horizontal                  | -49.28             | -13                | -36.28             |
| 2094.875                       | Vertical                    | -51.29             | -13                | -38.29             |
| 2097                           | Horizontal                  | -48.91             | -13                | -35.91             |

**LTE NB-IOT Band 12 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1414.375                       | Vertical                    | -49.79             | -13                | -36.79             |
| 1414.375                       | Horizontal                  | -49.72             | -13                | -36.72             |
| 2122                           | Vertical                    | -54.57             | -13                | -41.57             |
| 2122                           | Horizontal                  | -54.60             | -13                | -41.6              |

**LTE NB-IOT Band 12 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 1431.375                       | Vertical                    | -49.24             | -13                | -36.24             |
| 1431.375                       | Horizontal                  | -49.25             | -13                | -36.25             |
| 2145.375                       | Vertical                    | -51.31             | -13                | -38.31             |
| 2147.5                         | Horizontal                  | -48.83             | -13                | -35.83             |



**LTE NB-IOT Band 13 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1553.125                | Vertical             | -57.53      | -13         | -44.53      |
| 1553.125                | Horizontal           | -57.52      | -13         | -44.52      |
| 2328                    | Vertical             | -54.85      | -13         | -41.85      |
| 2330.125                | Horizontal           | -52.61      | -13         | -39.61      |
| 3107.125                | Vertical             | -53.5       | -13         | -40.5       |
| 3109.25                 | Horizontal           | -53.28      | -13         | -40.28      |

**LTE NB-IOT Band 13 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1563.125                | Vertical             | -58.89      | -13         | -45.89      |
| 1563.125                | Horizontal           | -58.88      | -13         | -45.88      |
| 2345.125                | Vertical             | -55.97      | -13         | -42.97      |
| 2345.125                | Horizontal           | -55.83      | -13         | -42.83      |
| 3127.125                | Vertical             | -50.93      | -13         | -37.93      |
| 3127.125                | Horizontal           | -50.91      | -13         | -37.91      |
| 3909.125                | Vertical             | -50.07      | -13         | -37.07      |
| 3909.125                | Horizontal           | -50.10      | -13         | -37.1       |

**LTE NB-IOT Band 13 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1573.125                | Vertical             | -57.41      | -13         | -44.41      |
| 1573.125                | Horizontal           | -57.49      | -13         | -44.49      |
| 2358                    | Vertical             | -54.87      | -13         | -41.87      |
| 2360.125                | Horizontal           | -52.53      | -13         | -39.53      |
| 3147.125                | Vertical             | -53.38      | -13         | -40.38      |
| 3149.25                 | Horizontal           | -53.25      | -13         | -40.25      |

**LTE NB-IOT Band 17 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1406.625                | Vertical             | -49.13      | -13         | -36.13      |
| 1406.625                | Horizontal           | -49.07      | -13         | -36.07      |
| 2110.375                | Vertical             | -49.49      | -13         | -36.49      |
| 2110.375                | Horizontal           | -48.36      | -13         | -35.36      |

**LTE NB-IOT Band 17 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1418.625                | Vertical             | -51.82      | -13         | -38.82      |
| 1418.625                | Horizontal           | -52.33      | -13         | -39.33      |
| 2128.375                | Vertical             | -56.18      | -13         | -43.18      |
| 2128.375                | Horizontal           | -56.20      | -13         | -43.2       |
| 2840.25                 | Vertical             | -54.49      | -13         | -41.49      |
| 2842.375                | Horizontal           | -55.99      | -13         | -42.99      |

**LTE NB-IOT Band 17 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1430.625                | Vertical             | -49.01      | -13         | -36.01      |
| 1430.625                | Horizontal           | -49.04      | -13         | -36.04      |
| 2146.375                | Vertical             | -49.51      | -13         | -36.51      |
| 2146.375                | Horizontal           | -48.28      | -13         | -35.28      |

**LTE NB-IOT Band 25 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3699.625                | Vertical             | -56.81      | -13         | -43.81      |
| 3699.625                | Horizontal           | -54.47      | -13         | -41.47      |
| 5522.875                | Vertical             | -52.63      | -13         | -39.63      |
| 5522.875                | Horizontal           | -52.27      | -13         | -39.27      |

**LTE NB-IOT Band 25 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3764.625                | Vertical             | -49.86      | -13         | -36.86      |
| 3764.625                | Horizontal           | -46.08      | -13         | -33.08      |
| 5647.375                | Vertical             | -51.29      | -13         | -38.29      |
| 5647.375                | Horizontal           | -47.51      | -13         | -34.51      |

**LTE NB-IOT Band 25 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 3829.625                | Vertical             | -56.69      | -13         | -43.69      |
| 3829.625                | Horizontal           | -54.44      | -13         | -41.44      |
| 5717.875                | Vertical             | -52.65      | -13         | -39.65      |
| 5717.875                | Horizontal           | -52.19      | -13         | -39.19      |

**LTE NB-IOT Band 26 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1625.875                | Vertical             | -54.88      | -13         | -41.88      |
| 1625.875                | Horizontal           | -55.21      | -13         | -42.21      |
| 2441.375                | Vertical             | -55.41      | -13         | -42.41      |
| 2443.5                  | Horizontal           | -55.24      | -13         | -42.24      |
| 3254.75                 | Vertical             | -43.53      | -13         | -30.53      |
| 3254.75                 | Horizontal           | -43.59      | -13         | -30.59      |

**LTE NB-IOT Band 26 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1660.875                | Vertical             | -53.54      | -13         | -40.54      |
| 1660.875                | Horizontal           | -54.96      | -13         | -41.96      |
| 2493.875                | Vertical             | -54.98      | -13         | -41.98      |
| 2496                    | Horizontal           | -55.83      | -13         | -42.83      |
| 3324.75                 | Vertical             | -50.76      | -13         | -37.76      |
| 3324.75                 | Horizontal           | -50.82      | -13         | -37.82      |

**LTE NB-IOT Band 26 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| SPURIOUS EMISSION LEVEL |                      |             |             |             |
|-------------------------|----------------------|-------------|-------------|-------------|
| Frequency (MHz)         | Antenna Polarization | Level (dBm) | Limit (dBm) | Margin (dB) |
| 1695.875                | Vertical             | -54.76      | -13         | -41.76      |
| 1695.875                | Horizontal           | -55.18      | -13         | -42.18      |
| 2546.375                | Vertical             | -55.43      | -13         | -42.43      |
| 2548.5                  | Horizontal           | -55.16      | -13         | -42.16      |
| 3394.75                 | Vertical             | -43.41      | -13         | -30.41      |
| 3394.75                 | Horizontal           | -43.56      | -13         | -30.56      |

**LTE NB-IOT Band 66 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Low Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3418.375                       | Vertical                    | -56.58             | -13                | -43.58             |
| 3420.5                         | Horizontal                  | -56.83             | -13                | -43.83             |
| 5042.25                        | Vertical                    | -56.61             | -13                | -43.61             |
| 5042.25                        | Horizontal                  | -54.88             | -13                | -41.88             |

**LTE NB-IOT Band 66 Bandwidth 5 MHz**

|                        |                |                          |             |
|------------------------|----------------|--------------------------|-------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | Mid Channel |
|------------------------|----------------|--------------------------|-------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3509.625                       | Vertical                    | -51.42             | -13                | -38.42             |
| 3509.625                       | Horizontal                  | -49.51             | -13                | -36.51             |
| 5262.75                        | Vertical                    | -57.36             | -13                | -44.36             |
| 5264.875                       | Horizontal                  | -55.38             | -13                | -42.38             |

**LTE NB-IOT Band 66 Bandwidth 5 MHz**

|                        |                |                          |              |
|------------------------|----------------|--------------------------|--------------|
| <b>Frequency Range</b> | 1GHz ~ 26.5GHz | <b>Operating Channel</b> | High Channel |
|------------------------|----------------|--------------------------|--------------|

| <b>SPURIOUS EMISSION LEVEL</b> |                             |                    |                    |                    |
|--------------------------------|-----------------------------|--------------------|--------------------|--------------------|
| <b>Frequency (MHz)</b>         | <b>Antenna Polarization</b> | <b>Level (dBm)</b> | <b>Limit (dBm)</b> | <b>Margin (dB)</b> |
| 3558.375                       | Vertical                    | -56.46             | -13                | -43.46             |
| 3560.5                         | Horizontal                  | -56.8              | -13                | -43.8              |
| 5252.25                        | Vertical                    | -56.63             | -13                | -43.63             |
| 5252.25                        | Horizontal                  | -54.8              | -13                | -41.8              |

**Test Setup Photo**

(Please refer to the attached file (Test Setup Photo))

#### IV. Test Equipment List

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ISO/IEC 17025:2017.

| Asset #   | Equipment                    | Manufacturer      | Model                | Last Cal Date   | Cal Due Date    |
|---|------------------------------|-------------------|----------------------|-----------------|-----------------|
| 1S2003  | EMI Test Receiver            | Keysight          | N9030B               | 11/06/2023      | 11/06/2024      |
| 1S2399  | Turntable Controller         | SUNOL SCIENCE     | SC99V                | Not Required    | Not Required    |
| 1S2486  | 5 Meter Chamber Control Room | Panashield        | 5 Meter Control Room | Not Required    | Not Required    |
| 1S2435  | Horn Antenna                 | ETS-LINDGREN      | 3117                 | 04/06/2023      | 04/06/2025      |
| 1S3826  | Horn Antenna                 | ETS-LINDGREN      | 3117                 | 04/06/2023      | 04/06/2025      |
| 1S4802  | Preamplifier                 | EMC Instrument    | EMC118A45SE          | Note 1          | Note 1          |
| 1S2668  | Preamplifier                 | Sonoma Instrument | 310N                 | Note 1          | Note 1          |
| 1S2756  | EXG Vector Signal Generator  | Keysight          | N5172B               | August 27, 2022 | August 27, 2024 |
| 1S2600  | Antenna                      | TESEQ GmbH        | D-12623              | April 19, 2023  | April 19, 2025  |
| Note 1: Verified by calibrated instrumentation at the time of testing |                              |                   |                      |                 |                 |

Table 1. Radiated Emission and Bandage Measurement, Test Equipment List

**END OF REPORT**