


| Sector | Zone | Port | Measured Range (GHz) | Max. Value (dBm) | | | | Limit (dBm) | Worst Margin (dB) |
|----------------|----------------|----------------|----------------------|------------------|--------|--------|--------|-------------|-------------------|
| | | | | QPSK | 16QAM | 64QAM | 256QAM | | |
| 1 | 1 | 1 | 3.530 to 3.595 | -35.96 | -38.20 | -39.01 | -38.88 | -28.01 | -7.95 |
| | | | 3.595 to 3.604 | -35.88 | -37.73 | -37.11 | -37.94 | -16.01 | -19.87 |
| | | | 3.604 to 3.605 | -25.37 | -25.44 | -25.85 | -25.43 | -16.01 | -9.36 |
| | | | 3.645 to 3.646 | -25.88 | -26.73 | -26.23 | -27.56 | -16.01 | -9.87 |
| | | | 3.646 to 3.655 | -36.64 | -37.53 | -38.17 | -38.26 | -16.01 | -20.63 |
| | | 3.655 to 3.720 | -39.37 | -39.26 | -39.13 | -39.16 | -28.01 | -11.12 | |
| | | 2 | 3.530 to 3.595 | -37.06 | -38.62 | -40.75 | -39.48 | -28.01 | -9.05 |
| | | | 3.595 to 3.604 | -37.67 | -37.17 | -37.46 | -38.46 | -16.01 | -21.16 |
| | | | 3.604 to 3.605 | -25.29 | -26.14 | -26.12 | -26.17 | -16.01 | -9.28 |
| | | | 3.645 to 3.646 | -26.07 | -25.73 | -26.85 | -26.70 | -16.01 | -9.72 |
| | 3.646 to 3.655 | | -37.57 | -37.95 | -37.91 | -38.82 | -16.01 | -21.56 | |
| | 2 | 3 | 3.530 to 3.595 | -39.62 | -40.16 | -39.88 | -40.24 | -28.01 | -11.61 |
| | | | 3.530 to 3.595 | -38.35 | -38.98 | -39.72 | -39.22 | -28.01 | -10.34 |
| | | | 3.595 to 3.604 | -37.71 | -37.61 | -37.22 | -38.03 | -16.01 | -21.21 |
| | | | 3.604 to 3.605 | -24.33 | -26.11 | -25.55 | -24.82 | -16.01 | -8.32 |
| | | | 3.645 to 3.646 | -25.12 | -24.33 | -25.23 | -27.02 | -16.01 | -8.32 |
| | | 4 | 3.646 to 3.655 | -36.76 | -36.16 | -37.47 | -37.39 | -16.01 | -20.15 |
| | | | 3.655 to 3.720 | -38.46 | -38.97 | -38.28 | -38.87 | -28.01 | -10.27 |
| | | | 3.530 to 3.595 | -37.49 | -37.49 | -38.25 | -38.21 | -28.01 | -9.48 |
| | | | 3.595 to 3.604 | -36.35 | -36.45 | -36.04 | -36.63 | -16.01 | -20.03 |
| 3.604 to 3.605 | | | -26.85 | -26.19 | -25.67 | -25.44 | -16.01 | -9.43 | |
| 2 | 3 | 5 | 3.645 to 3.646 | -26.99 | -26.26 | -25.70 | -23.68 | -16.01 | -7.67 |
| | | | 3.646 to 3.655 | -37.66 | -38.18 | -38.21 | -37.98 | -16.01 | -21.65 |
| | | | 3.655 to 3.720 | -40.58 | -40.19 | -39.01 | -39.94 | -28.01 | -11.00 |
| | | | 3.530 to 3.595 | -37.93 | -36.89 | -39.11 | -38.18 | -28.01 | -8.88 |
| | | | 3.595 to 3.604 | -37.02 | -35.91 | -36.09 | -36.01 | -16.01 | -19.90 |
| | | 6 | 3.604 to 3.605 | -24.48 | -24.29 | -25.58 | -23.97 | -16.01 | -7.96 |
| | | | 3.645 to 3.646 | -26.69 | -23.74 | -26.22 | -25.51 | -16.01 | -7.73 |
| | | | 3.646 to 3.655 | -37.08 | -36.74 | -37.80 | -36.70 | -16.01 | -20.69 |
| | | | 3.655 to 3.720 | -39.18 | -39.30 | -38.71 | -38.45 | -28.01 | -10.44 |
| | | | 3.530 to 3.595 | -36.29 | -38.44 | -37.36 | -38.29 | -28.01 | -8.28 |
| | 4 | 7 | 3.595 to 3.604 | -36.16 | -36.08 | -35.75 | -35.97 | -16.01 | -19.74 |
| | | | 3.604 to 3.605 | -25.60 | -22.51 | -25.84 | -21.96 | -16.01 | -5.95 |
| | | | 3.645 to 3.646 | -24.83 | -24.87 | -23.91 | -24.86 | -16.01 | -7.90 |
| | | | 3.646 to 3.655 | -35.88 | -35.35 | -36.05 | -35.70 | -16.01 | -19.34 |
| | | | 3.655 to 3.720 | -38.27 | -37.65 | -37.25 | -36.74 | -28.01 | -8.73 |
| | | 8 | 3.530 to 3.595 | -38.14 | -38.10 | -40.55 | -38.73 | -28.01 | -10.09 |
| | | | 3.595 to 3.604 | -36.71 | -36.80 | -36.96 | -36.82 | -16.01 | -20.70 |
| | | | 3.604 to 3.605 | -24.37 | -25.65 | -24.20 | -26.07 | -16.01 | -8.19 |
| | | | 3.645 to 3.646 | -25.96 | -26.06 | -25.75 | -26.62 | -16.01 | -9.74 |
| | | | 3.646 to 3.655 | -37.04 | -36.78 | -36.47 | -36.30 | -16.01 | -20.29 |

Table 8-190. Channel Edge Emission Summary Data (n48_1C_40M_Mid Channel_2T)

| | | | | |
|--|--|------------------------------------|--|-----------------------------------|
| FCC: A3LSOG2201 | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 176 of 289 |

| Sector | Zone | Port | Measured Range (GHz) | Max. Value (dBm) | | | | Limit (dBm) | Worst Margin (dB) |
|----------------|----------------|----------------|----------------------|------------------|--------|--------|--------|-------------|-------------------|
| | | | | QPSK | 16QAM | 64QAM | 256QAM | | |
| 1 | 1 | 1 | 3.530 to 3.650 | -36.80 | -37.92 | -36.62 | -37.07 | -28.01 | -8.61 |
| | | | 3.650 to 3.659 | -36.87 | -38.03 | -36.67 | -37.14 | -16.01 | -20.66 |
| | | | 3.659 to 3.660 | -24.89 | -26.97 | -23.77 | -26.84 | -16.01 | -7.76 |
| | | | 3.700 to 3.701 | -27.22 | -24.52 | -24.36 | -27.59 | -16.01 | -8.35 |
| | | | 3.701 to 3.710 | -37.03 | -36.22 | -36.64 | -36.79 | -16.01 | -20.21 |
| | | 3.710 to 3.720 | -41.27 | -41.68 | -41.48 | -41.42 | -28.01 | -13.26 | |
| | | 2 | 3.530 to 3.650 | -37.90 | -36.73 | -37.19 | -36.34 | -28.01 | -8.33 |
| | | | 3.650 to 3.659 | -37.59 | -36.86 | -37.07 | -37.33 | -16.01 | -20.85 |
| | | | 3.659 to 3.660 | -25.39 | -25.04 | -24.90 | -25.40 | -16.01 | -8.89 |
| | | | 3.700 to 3.701 | -27.68 | -25.84 | -23.95 | -27.31 | -16.01 | -7.94 |
| | 3.701 to 3.710 | | -36.99 | -36.22 | -37.01 | -36.66 | -16.01 | -20.21 | |
| | 2 | 3 | 3.710 to 3.720 | -42.11 | -41.98 | -41.92 | -42.47 | -28.01 | -13.91 |
| | | | 3.530 to 3.650 | -35.05 | -35.31 | -35.90 | -35.83 | -28.01 | -7.04 |
| | | | 3.650 to 3.659 | -34.42 | -35.29 | -34.30 | -35.55 | -16.01 | -18.29 |
| | | | 3.659 to 3.660 | -25.08 | -24.04 | -25.84 | -25.01 | -16.01 | -8.03 |
| | | | 3.700 to 3.701 | -26.98 | -25.25 | -22.79 | -25.86 | -16.01 | -6.78 |
| | | 4 | 3.701 to 3.710 | -35.08 | -35.10 | -35.24 | -35.20 | -16.01 | -19.07 |
| | | | 3.710 to 3.720 | -39.89 | -40.53 | -40.89 | -40.54 | -28.01 | -11.88 |
| | | | 3.530 to 3.650 | -37.52 | -36.92 | -37.02 | -37.21 | -28.01 | -8.91 |
| | | | 3.650 to 3.659 | -37.31 | -38.00 | -36.82 | -37.47 | -16.01 | -20.81 |
| 3.659 to 3.660 | | | -26.30 | -23.77 | -24.61 | -24.62 | -16.01 | -7.76 | |
| 2 | 3 | 5 | 3.700 to 3.701 | -27.46 | -26.51 | -27.00 | -27.59 | -16.01 | -10.50 |
| | | | 3.701 to 3.710 | -36.76 | -37.04 | -37.66 | -37.33 | -16.01 | -20.75 |
| | | | 3.710 to 3.720 | -41.86 | -42.08 | -42.61 | -42.80 | -28.01 | -13.85 |
| | | | 3.530 to 3.650 | -34.40 | -35.50 | -35.35 | -36.23 | -28.01 | -6.39 |
| | | | 3.650 to 3.659 | -34.13 | -35.27 | -34.57 | -34.57 | -16.01 | -18.12 |
| | | 6 | 3.659 to 3.660 | -23.49 | -25.23 | -23.83 | -26.25 | -16.01 | -7.48 |
| | | | 3.700 to 3.701 | -25.80 | -26.85 | -26.07 | -26.10 | -16.01 | -9.79 |
| | | | 3.701 to 3.710 | -34.43 | -34.87 | -35.08 | -34.91 | -16.01 | -18.42 |
| | | | 3.710 to 3.720 | -39.39 | -39.92 | -39.97 | -40.15 | -28.01 | -11.38 |
| | | | 3.530 to 3.650 | -33.76 | -35.43 | -34.67 | -35.34 | -28.01 | -5.75 |
| | 4 | 7 | 3.650 to 3.659 | -35.03 | -34.60 | -34.58 | -33.99 | -16.01 | -17.98 |
| | | | 3.659 to 3.660 | -25.93 | -24.61 | -24.78 | -23.98 | -16.01 | -7.97 |
| | | | 3.700 to 3.701 | -25.49 | -25.31 | -24.35 | -26.16 | -16.01 | -8.34 |
| | | | 3.701 to 3.710 | -35.17 | -34.91 | -34.79 | -35.59 | -16.01 | -18.78 |
| | | | 3.710 to 3.720 | -40.27 | -40.33 | -40.37 | -40.10 | -28.01 | -12.09 |
| | | 8 | 3.530 to 3.650 | -35.65 | -35.42 | -35.62 | -34.95 | -28.01 | -6.94 |
| | | | 3.650 to 3.659 | -36.18 | -36.23 | -35.46 | -36.00 | -16.01 | -19.45 |
| | | | 3.659 to 3.660 | -25.92 | -25.89 | -25.78 | -24.12 | -16.01 | -8.11 |
| | | | 3.700 to 3.701 | -25.47 | -25.45 | -25.40 | -27.17 | -16.01 | -9.39 |
| | | | 3.701 to 3.710 | -35.82 | -35.18 | -35.52 | -35.68 | -16.01 | -19.17 |
| 8 | 3.710 to 3.720 | -40.51 | -40.37 | -40.88 | -41.54 | -28.01 | -12.36 | | |
| | 3.530 to 3.650 | -34.07 | -34.62 | -33.97 | -35.55 | -28.01 | -5.96 | | |
| | 3.650 to 3.659 | -34.27 | -34.13 | -34.67 | -34.56 | -16.01 | -18.12 | | |
| | 3.659 to 3.660 | -24.07 | -25.26 | -25.14 | -24.56 | -16.01 | -8.06 | | |
| | 3.700 to 3.701 | -24.11 | -26.07 | -25.37 | -25.74 | -16.01 | -8.10 | | |
| 3.701 to 3.710 | -34.91 | -34.31 | -34.52 | -35.03 | -16.01 | -18.30 | | | |
| 3.710 to 3.720 | -39.90 | -39.67 | -39.78 | -40.03 | -28.01 | -11.66 | | | |

Table 8-191. Channel Edge Emission Summary Data (n48_1C_40M_High Channel_2T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | Page 177 of 289 | |

| Configuration | Max. Value (dBm) | | | | | | Limit (dBm) | Worst Margin (dB) |
|------------------|----------------------|--------|----------------------|---------------|----------------------|--------|-------------|-------------------|
| | Measured Range (GHz) | Low | Measured Range (GHz) | Middle | Measured Range (GHz) | High | | |
| NR_2C 10M+10M | 3.530 to 3.540 | -44.10 | 3.530 to 3.605 | -35.18 | 3.530 to 3.670 | -33.13 | -28.01 | -5.12 |
| | 3.540 to 3.549 | -33.47 | 3.605 to 3.614 | -32.57 | 3.670 to 3.679 | -31.51 | -16.01 | -15.5 |
| | 3.549 to 3.550 | -27.23 | 3.614 to 3.615 | -27.39 | 3.679 to 3.680 | -28.81 | -16.01 | -11.22 |
| | 3.570 to 3.571 | -27.95 | 3.635 to 3.636 | -30.18 | 3.700 to 3.701 | -29.11 | -16.01 | -11.94 |
| | 3.571 to 3.580 | -34.11 | 3.636 to 3.645 | -33.20 | 3.701 to 3.710 | -33.67 | -16.01 | -17.19 |
| NR_2C 10M+20M | 3.580 to 3.720 | -37.04 | 3.645 to 3.720 | -38.80 | 3.710 to 3.720 | -39.66 | -28.01 | -9.03 |
| | 3.530 to 3.540 | -44.37 | 3.530 to 3.600 | -38.10 | 3.530 to 3.660 | -33.77 | -28.01 | -5.76 |
| | 3.540 to 3.549 | -36.45 | 3.600 to 3.609 | -33.94 | 3.660 to 3.669 | -33.24 | -16.01 | -17.23 |
| | 3.549 to 3.550 | -24.35 | 3.609 to 3.610 | -22.67 | 3.669 to 3.670 | -25.86 | -16.01 | -6.66 |
| | 3.580 to 3.581 | -27.19 | 3.640 to 3.641 | -27.39 | 3.700 to 3.701 | -26.54 | -16.01 | -10.53 |
| NR_2C 20M+20M | 3.581 to 3.590 | -37.33 | 3.641 to 3.650 | -36.15 | 3.701 to 3.710 | -35.68 | -16.01 | -19.67 |
| | 3.590 to 3.720 | -39.62 | 3.650 to 3.720 | -39.16 | 3.710 to 3.720 | -39.72 | -28.01 | -11.15 |
| | 3.530 to 3.540 | -44.63 | 3.530 to 3.595 | -37.96 | 3.530 to 3.650 | -36.96 | -28.01 | -8.95 |
| | 3.540 to 3.549 | -38.28 | 3.595 to 3.604 | -36.69 | 3.650 to 3.659 | -34.20 | -16.01 | -18.19 |
| | 3.549 to 3.550 | -24.29 | 3.604 to 3.605 | -23.07 | 3.659 to 3.660 | -24.30 | -16.01 | -7.06 |
| NR_2C 30M+10M | 3.590 to 3.591 | -23.05 | 3.645 to 3.646 | -24.54 | 3.700 to 3.701 | -23.86 | -16.01 | -7.04 |
| | 3.591 to 3.600 | -37.25 | 3.646 to 3.655 | -36.66 | 3.701 to 3.710 | -34.98 | -16.01 | -18.97 |
| | 3.600 to 3.720 | -38.19 | 3.655 to 3.720 | -38.67 | 3.710 to 3.720 | -40.05 | -28.01 | -10.18 |
| | 3.530 to 3.540 | -45.39 | 3.530 to 3.595 | -37.85 | 3.530 to 3.650 | -36.39 | -28.01 | -8.38 |
| | 3.540 to 3.549 | -36.54 | 3.595 to 3.604 | -36.65 | 3.650 to 3.659 | -36.92 | -16.01 | -20.53 |
| NR_2C 40M+40M | 3.549 to 3.550 | -27.76 | 3.604 to 3.605 | -25.56 | 3.659 to 3.660 | -24.66 | -16.01 | -8.65 |
| | 3.590 to 3.591 | -22.12 | 3.645 to 3.646 | -20.06 | 3.700 to 3.701 | -21.88 | -16.01 | -4.05 |
| | 3.591 to 3.600 | -34.92 | 3.646 to 3.655 | -34.87 | 3.701 to 3.710 | -35.63 | -16.01 | -18.86 |
| | 3.600 to 3.720 | -38.28 | 3.655 to 3.720 | -37.85 | 3.710 to 3.720 | -40.38 | -28.01 | -9.84 |
| | 3.530 to 3.540 | -44.99 | 3.530 to 3.575 | -37.76 | 3.530 to 3.610 | -36.97 | -28.01 | -8.96 |
| NR_2C 40M+40M | 3.540 to 3.549 | -38.73 | 3.575 to 3.584 | -38.46 | 3.610 to 3.619 | -36.98 | -16.01 | -20.97 |
| | 3.549 to 3.550 | -37.20 | 3.584 to 3.585 | -36.50 | 3.619 to 3.620 | -36.52 | -16.01 | -20.49 |
| | 3.630 to 3.631 | -37.38 | 3.655 to 3.666 | -36.54 | 3.700 to 3.701 | -37.03 | -16.01 | -20.53 |
| | 3.631 to 3.640 | -38.45 | 3.666 to 3.675 | -37.93 | 3.701 to 3.710 | -38.61 | -16.01 | -21.92 |
| | 3.640 to 3.720 | -39.07 | 3.675 to 3.720 | -38.36 | 3.710 to 3.720 | -41.72 | -28.01 | -10.35 |

Table 8-192. Channel Edge Emission Summary Data (n48_Multi Carrier_2T)


| Configuration | Max. Value (dBm) | | | | | | Limit (dBm) | Worst Margin (dB) |
|------------------|----------------------|--------|----------------------|--------|----------------------|--------|-------------|-------------------|
| | Measured Range (GHz) | Low | Measured Range (GHz) | Middle | Measured Range (GHz) | High | | |
| NR_2C 30M+10M | 3.530 to 3.540 | -45.39 | 3.530 to 3.595 | -37.85 | 3.530 to 3.650 | -36.39 | -31.02 | -5.37 |
| | 3.540 to 3.549 | -36.54 | 3.595 to 3.604 | -36.65 | 3.650 to 3.659 | -36.92 | -19.02 | -17.52 |
| | 3.549 to 3.550 | -27.76 | 3.604 to 3.605 | -25.56 | 3.659 to 3.660 | -24.66 | -19.02 | -5.64 |
| | 3.590 to 3.591 | -22.12 | 3.645 to 3.646 | -20.06 | 3.700 to 3.701 | -21.88 | -19.02 | -1.04 |
| | 3.591 to 3.600 | -34.92 | 3.646 to 3.655 | -34.87 | 3.701 to 3.710 | -35.63 | -19.02 | -15.85 |
| | 3.600 to 3.720 | -38.28 | 3.655 to 3.720 | -37.85 | 3.710 to 3.720 | -40.38 | -31.02 | -6.83 |

Table 8-193. Channel Edge Emission Summary Data (n48_Multi Carrier Worst Mode 4T limit calculation)

| | | | | | |
|--|--|---------------------------------------|--|-----------------|-----------------------------------|
| FCC: A3LSOG2201 | | MEASUREMENT REPORT (CERTIFICATION) | | | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 178 of 289 | |

| Configuration | Measured Range (GHz) | Max. Value (dBm) | Limit (dBm) | Margin (dB) |
|---------------------------------|----------------------|------------------|-------------|-------------|
| NR_2C_10M+10M Non-Contiguous | 3.530 to 3.540 | -49.51 | -28.01 | -21.50 |
| | 3.540 to 3.549 | -34.86 | -16.01 | -18.85 |
| | 3.549 to 3.550 | -39.70 | -16.01 | -23.69 |
| | 3.560 to 3.561 | -39.12 | -16.01 | -23.11 |
| | 3.561 to 3.570 | -33.93 | -16.01 | -17.92 |
| | 3.570 to 3.680 | -41.21 | -28.01 | -13.20 |
| | 3.680 to 3.689 | -34.04 | -16.01 | -18.03 |
| | 3.689 to 3.690 | -38.46 | -16.01 | -22.45 |
| | 3.700 to 3.701 | -39.77 | -16.01 | -23.76 |
| | 3.701 to 3.710 | -35.34 | -16.01 | -19.33 |
| NR_2C_10M+20M Non-Contiguous | 3.710 to 3.720 | -48.62 | -28.01 | -20.61 |
| | 3.530 to 3.540 | -45.88 | -28.01 | -17.87 |
| | 3.540 to 3.549 | -37.55 | -16.01 | -21.54 |
| | 3.549 to 3.550 | -38.79 | -16.01 | -22.78 |
| | 3.560 to 3.561 | -41.48 | -16.01 | -25.47 |
| | 3.561 to 3.570 | -35.18 | -16.01 | -19.17 |
| | 3.570 to 3.670 | -38.98 | -28.01 | -10.97 |
| | 3.670 to 3.679 | -37.92 | -16.01 | -21.91 |
| | 3.679 to 3.680 | -32.51 | -16.01 | -16.50 |
| | 3.700 to 3.701 | -31.31 | -16.01 | -15.30 |
| NR_2C_20M+20M Non-Contiguous | 3.701 to 3.710 | -37.61 | -16.01 | -21.60 |
| | 3.710 to 3.720 | -44.99 | -28.01 | -16.98 |
| | 3.530 to 3.540 | -47.61 | -28.01 | -19.60 |
| | 3.540 to 3.549 | -38.20 | -16.01 | -22.19 |
| | 3.549 to 3.550 | -33.58 | -16.01 | -17.57 |
| | 3.570 to 3.571 | -32.26 | -16.01 | -16.25 |
| | 3.571 to 3.580 | -37.91 | -16.01 | -21.90 |
| | 3.580 to 3.670 | -38.52 | -28.01 | -10.51 |
| | 3.670 to 3.679 | -37.62 | -16.01 | -21.61 |
| | 3.679 to 3.680 | -33.11 | -16.01 | -17.10 |
| NR_2C_30M+10M Non-Contiguous | 3.700 to 3.701 | -33.84 | -16.01 | -17.83 |
| | 3.701 to 3.710 | -38.58 | -16.01 | -22.57 |
| | 3.710 to 3.720 | -44.65 | -28.01 | -16.64 |
| | 3.530 to 3.540 | -46.34 | -28.01 | -18.33 |
| | 3.540 to 3.549 | -38.77 | -16.01 | -22.76 |
| | 3.549 to 3.550 | -29.79 | -16.01 | -13.78 |
| | 3.580 to 3.581 | -28.26 | -16.01 | -12.25 |
| | 3.581 to 3.590 | -36.97 | -16.01 | -20.96 |
| | 3.590 to 3.680 | -39.06 | -28.01 | -11.05 |
| | 3.680 to 3.689 | -36.00 | -16.01 | -19.99 |
| NR_2C_40M+40M Non-Contiguous | 3.689 to 3.690 | -40.89 | -16.01 | -24.88 |
| | 3.700 to 3.701 | -41.24 | -16.01 | -25.23 |
| | 3.701 to 3.710 | -36.50 | -16.01 | -20.49 |
| | 3.710 to 3.720 | -44.94 | -28.01 | -16.93 |
| | 3.530 to 3.540 | -44.58 | -28.01 | -16.57 |
| | 3.540 to 3.549 | -38.53 | -16.01 | -22.52 |
| | 3.549 to 3.550 | -28.98 | -16.01 | -12.97 |
| | 3.590 to 3.591 | -28.77 | -16.01 | -12.76 |
| | 3.591 to 3.600 | -37.21 | -16.01 | -21.20 |
| | 3.600 to 3.650 | -37.39 | -28.01 | -9.38 |
| 3.650 to 3.659 | -39.09 | -16.01 | -23.08 | |
| 3.659 to 3.660 | -29.01 | -16.01 | -13.00 | |
| 3.700 to 3.701 | -28.64 | -16.01 | -12.63 | |
| 3.701 to 3.710 | -39.05 | -16.01 | -23.04 | |
| 3.710 to 3.720 | -44.65 | -28.01 | -16.64 | |

Table 8-194. Channel Edge Emission Summary Data (n48_NC_Multi Carrier_2T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | Page 179 of 289 | |

| Configuration | Measured Range (GHz) | Max. Value (dBm) | Limit (dBm) | Margin (dB) |
|---------------------------------|----------------------|------------------|-------------|-------------|
| NR_2C_40M+40M Non-Contiguous | 3.530 to 3.540 | -49.51 | -31.02 | -18.49 |
| | 3.540 to 3.549 | -34.86 | -19.02 | -15.84 |
| | 3.549 to 3.550 | -39.70 | -19.02 | -20.68 |
| | 3.560 to 3.561 | -39.12 | -19.02 | -20.10 |
| | 3.561 to 3.570 | -33.93 | -19.02 | -14.91 |
| | 3.570 to 3.680 | -41.21 | -31.02 | -10.19 |
| | 3.680 to 3.689 | -34.04 | -19.02 | -15.02 |
| | 3.689 to 3.690 | -38.46 | -19.02 | -19.44 |
| | 3.700 to 3.701 | -39.77 | -19.02 | -20.75 |
| | 3.701 to 3.710 | -35.34 | -19.02 | -16.32 |
| | 3.710 to 3.720 | -48.62 | -31.02 | -17.60 |

Table 8-195. Channel Edge Emission Summary Data (n48_NC_Multi Carrier Worst Mode 4T limit calculation)

| | | | | |
|---|---|---|---|--|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | Page 180 of 289 | |

| Sector | Zone | Port | Measured Range (GHz) | Max. Value (dBm) | | Limit (dBm) | Worst Margin (dB) |
|----------------|----------------|----------------|----------------------|------------------|--------|-------------|-------------------|
| | | | | QPSK | 16QAM | | |
| 1 | 1 | 1 | 3.530 to 3.540 | -48.28 | -48.43 | -34.03 | -14.25 |
| | | | 3.540 to 3.549 | -34.04 | -34.55 | -22.03 | -12.01 |
| | | | 3.549 to 3.550 | -38.88 | -42.10 | -22.03 | -16.85 |
| | | | 3.560 to 3.561 | -38.22 | -39.65 | -22.03 | -16.19 |
| | | | 3.561 to 3.570 | -38.26 | -35.94 | -22.03 | -13.91 |
| | | 3.570 to 3.720 | -42.88 | -43.10 | -34.03 | -8.85 | |
| | | 2 | 3.530 to 3.540 | -47.43 | -48.01 | -34.03 | -13.40 |
| | | | 3.540 to 3.549 | -34.52 | -36.27 | -22.03 | -12.49 |
| | | | 3.549 to 3.550 | -38.65 | -41.40 | -22.03 | -16.62 |
| | | | 3.560 to 3.561 | -40.76 | -40.01 | -22.03 | -17.98 |
| | 3.561 to 3.570 | | -35.94 | -35.88 | -22.03 | -13.85 | |
| | 2 | 3 | 3.570 to 3.720 | -42.94 | -43.48 | -34.03 | -8.91 |
| | | | 3.530 to 3.540 | -49.81 | -49.38 | -34.03 | -15.35 |
| | | | 3.540 to 3.549 | -34.25 | -34.27 | -22.03 | -12.22 |
| | | | 3.549 to 3.550 | -41.50 | -41.17 | -22.03 | -19.14 |
| | | | 3.560 to 3.561 | -40.19 | -38.06 | -22.03 | -16.03 |
| | | 4 | 3.561 to 3.570 | -35.63 | -36.22 | -22.03 | -13.60 |
| | | | 3.570 to 3.720 | -42.73 | -42.99 | -34.03 | -8.70 |
| | | | 3.530 to 3.540 | -46.97 | -47.18 | -34.03 | -12.94 |
| | | | 3.540 to 3.549 | -34.02 | -34.53 | -22.03 | -11.99 |
| 3.549 to 3.550 | | | -39.81 | -39.97 | -22.03 | -17.78 | |
| 2 | 3 | 5 | 3.560 to 3.561 | -39.40 | -40.28 | -22.03 | -17.37 |
| | | | 3.561 to 3.570 | -36.11 | -35.88 | -22.03 | -13.85 |
| | | | 3.570 to 3.720 | -42.69 | -43.02 | -34.03 | -8.66 |
| | | | 3.530 to 3.540 | -47.60 | -46.91 | -34.03 | -12.88 |
| | | | 3.540 to 3.549 | -34.08 | -35.08 | -22.03 | -12.05 |
| | | 6 | 3.549 to 3.550 | -39.94 | -40.76 | -22.03 | -17.91 |
| | | | 3.560 to 3.561 | -40.59 | -39.53 | -22.03 | -17.50 |
| | | | 3.561 to 3.570 | -35.38 | -36.21 | -22.03 | -13.35 |
| | | | 3.570 to 3.720 | -43.98 | -42.01 | -34.03 | -7.98 |
| | | | 3.530 to 3.540 | -48.17 | -47.03 | -34.03 | -13.00 |
| | 4 | 7 | 3.540 to 3.549 | -34.46 | -35.28 | -22.03 | -12.43 |
| | | | 3.549 to 3.550 | -40.98 | -40.73 | -22.03 | -18.70 |
| | | | 3.560 to 3.561 | -42.03 | -39.76 | -22.03 | -17.73 |
| | | | 3.561 to 3.570 | -35.67 | -36.18 | -22.03 | -13.64 |
| | | | 3.570 to 3.720 | -42.24 | -42.55 | -34.03 | -8.21 |
| | | 8 | 3.530 to 3.540 | -47.72 | -46.78 | -34.03 | -12.75 |
| | | | 3.540 to 3.549 | -37.26 | -33.73 | -22.03 | -11.70 |
| | | | 3.549 to 3.550 | -41.77 | -41.77 | -22.03 | -19.74 |
| | | | 3.560 to 3.561 | -41.19 | -39.50 | -22.03 | -17.47 |
| | | | 3.561 to 3.570 | -35.57 | -35.96 | -22.03 | -13.54 |
| 8 | 3.570 to 3.720 | -42.73 | -43.51 | -34.03 | -8.70 | | |
| | 3.530 to 3.540 | -47.39 | -48.63 | -34.03 | -13.36 | | |
| | 3.540 to 3.549 | -32.80 | -36.40 | -22.03 | -10.77 | | |
| | 3.549 to 3.550 | -41.06 | -42.50 | -22.03 | -19.03 | | |
| | 3.560 to 3.561 | -38.76 | -39.50 | -22.03 | -16.73 | | |
| 3.561 to 3.570 | -34.90 | -35.46 | -22.03 | -12.87 | | | |
| 3.570 to 3.720 | -41.67 | -42.46 | -34.03 | -7.64 | | | |

Table 8-196. Channel Edge Emission Summary Data (n48_1C_10M_Low Channel_8T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 181 of 289 |

| Sector | Zone | Port | Measured Range (GHz) | Max. Value (dBm) | | Limit (dBm) | Worst Margin (dB) |
|----------------|----------------|----------------|----------------------|------------------|--------|-------------|-------------------|
| | | | | QPSK | 16QAM | | |
| 1 | 1 | 1 | 3.530 to 3.610 | -41.01 | -41.07 | -34.03 | -6.98 |
| | | | 3.610 to 3.619 | -34.53 | -34.64 | -22.03 | -12.50 |
| | | | 3.619 to 3.620 | -39.54 | -40.70 | -22.03 | -17.51 |
| | | | 3.630 to 3.631 | -38.45 | -40.33 | -22.03 | -16.42 |
| | | | 3.631 to 3.640 | -35.00 | -34.59 | -22.03 | -12.56 |
| | | 3.640 to 3.720 | -43.87 | -43.86 | -34.03 | -9.83 | |
| | | 2 | 3.530 to 3.610 | -41.20 | -41.41 | -34.03 | -7.17 |
| | | | 3.610 to 3.619 | -34.47 | -34.41 | -22.03 | -12.38 |
| | | | 3.619 to 3.620 | -37.83 | -40.04 | -22.03 | -15.80 |
| | | | 3.630 to 3.631 | -38.15 | -38.10 | -22.03 | -16.07 |
| | 3.631 to 3.640 | | -34.45 | -34.44 | -22.03 | -12.41 | |
| | 2 | 3 | 3.640 to 3.720 | -42.93 | -42.65 | -34.03 | -8.62 |
| | | | 3.530 to 3.610 | -40.82 | -40.98 | -34.03 | -6.79 |
| | | | 3.610 to 3.619 | -33.46 | -34.34 | -22.03 | -11.43 |
| | | | 3.619 to 3.620 | -40.55 | -40.22 | -22.03 | -18.19 |
| | | | 3.630 to 3.631 | -37.77 | -37.19 | -22.03 | -15.16 |
| | | 4 | 3.631 to 3.640 | -34.57 | -34.03 | -22.03 | -12.00 |
| | | | 3.640 to 3.720 | -43.52 | -43.12 | -34.03 | -9.09 |
| | | | 3.530 to 3.610 | -40.33 | -40.26 | -34.03 | -6.23 |
| | | | 3.610 to 3.619 | -34.40 | -33.78 | -22.03 | -11.75 |
| 3.619 to 3.620 | | | -40.61 | -41.17 | -22.03 | -18.58 | |
| 2 | 3 | 5 | 3.630 to 3.631 | -38.99 | -37.74 | -22.03 | -15.71 |
| | | | 3.631 to 3.640 | -34.52 | -34.64 | -22.03 | -12.49 |
| | | | 3.640 to 3.720 | -43.16 | -42.46 | -34.03 | -8.43 |
| | | | 3.530 to 3.610 | -39.69 | -39.66 | -34.03 | -5.63 |
| | | | 3.610 to 3.619 | -36.84 | -33.39 | -22.03 | -11.36 |
| | | 6 | 3.619 to 3.620 | -40.91 | -40.96 | -22.03 | -18.88 |
| | | | 3.630 to 3.631 | -38.40 | -38.61 | -22.03 | -16.37 |
| | | | 3.631 to 3.640 | -35.16 | -35.27 | -22.03 | -13.13 |
| | | | 3.640 to 3.720 | -42.73 | -43.05 | -34.03 | -8.70 |
| | | | 3.530 to 3.610 | -39.08 | -39.41 | -34.03 | -5.05 |
| | 4 | 7 | 3.610 to 3.619 | -34.09 | -33.50 | -22.03 | -11.47 |
| | | | 3.619 to 3.620 | -40.55 | -40.12 | -22.03 | -18.09 |
| | | | 3.630 to 3.631 | -39.04 | -37.40 | -22.03 | -15.37 |
| | | | 3.631 to 3.640 | -34.35 | -34.63 | -22.03 | -12.32 |
| | | | 3.640 to 3.720 | -41.56 | -42.54 | -34.03 | -7.53 |
| | | 8 | 3.530 to 3.610 | -40.30 | -40.44 | -34.03 | -6.27 |
| | | | 3.610 to 3.619 | -34.01 | -33.78 | -22.03 | -11.75 |
| | | | 3.619 to 3.620 | -40.48 | -39.39 | -22.03 | -17.36 |
| | | | 3.630 to 3.631 | -37.85 | -38.14 | -22.03 | -15.82 |
| | | | 3.631 to 3.640 | -34.99 | -35.33 | -22.03 | -12.96 |
| 8 | 3.640 to 3.720 | -44.05 | -43.29 | -34.03 | -9.26 | | |
| | 3.530 to 3.610 | -40.08 | -39.93 | -34.03 | -5.90 | | |
| | 3.610 to 3.619 | -33.47 | -35.06 | -22.03 | -11.44 | | |
| | 3.619 to 3.620 | -40.23 | -38.75 | -22.03 | -16.72 | | |
| | 3.630 to 3.631 | -38.96 | -37.94 | -22.03 | -15.91 | | |
| 3.631 to 3.640 | -35.08 | -33.79 | -22.03 | -11.76 | | | |
| 3.640 to 3.720 | -42.82 | -42.12 | -34.03 | -8.09 | | | |

Table 8-197. Channel Edge Emission Summary Data (n48_1C_10M_Mid Channel_8T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 182 of 289 |


| Sector | Zone | Port | Measured Range (GHz) | Max. Value (dBm) | | Limit (dBm) | Worst Margin (dB) |
|----------------|----------------|----------------|----------------------|------------------|--------|-------------|-------------------|
| | | | | QPSK | 16QAM | | |
| 1 | 1 | 1 | 3.530 to 3.580 | -41.67 | -41.54 | -34.03 | -7.51 |
| | | | 3.680 to 3.689 | -34.25 | -34.23 | -22.03 | -12.20 |
| | | | 3.689 to 3.690 | -36.83 | -38.48 | -22.03 | -14.80 |
| | | | 3.700 to 3.701 | -40.59 | -41.56 | -22.03 | -18.56 |
| | | | 3.701 to 3.710 | -36.63 | -36.17 | -22.03 | -14.14 |
| | | 3.710 to 3.720 | -48.53 | -47.37 | -34.03 | -13.34 | |
| | | 2 | 3.530 to 3.580 | -40.56 | -41.04 | -34.03 | -6.53 |
| | | | 3.680 to 3.689 | -33.67 | -33.35 | -22.03 | -11.32 |
| | | | 3.689 to 3.690 | -40.15 | -38.77 | -22.03 | -16.74 |
| | | | 3.700 to 3.701 | -40.72 | -40.42 | -22.03 | -18.39 |
| | 3.701 to 3.710 | | -36.61 | -35.47 | -22.03 | -13.44 | |
| | 2 | 3 | 3.710 to 3.720 | -47.47 | -46.90 | -34.03 | -12.87 |
| | | | 3.530 to 3.580 | -39.98 | -39.10 | -34.03 | -5.07 |
| | | | 3.680 to 3.689 | -34.28 | -33.76 | -22.03 | -11.73 |
| | | | 3.689 to 3.690 | -36.50 | -38.81 | -22.03 | -14.47 |
| | | | 3.700 to 3.701 | -39.07 | -39.37 | -22.03 | -17.04 |
| | | 4 | 3.701 to 3.710 | -35.77 | -35.53 | -22.03 | -13.50 |
| | | | 3.710 to 3.720 | -46.87 | -45.90 | -34.03 | -11.87 |
| | | | 3.530 to 3.580 | -40.84 | -40.67 | -34.03 | -6.64 |
| | | | 3.680 to 3.689 | -34.00 | -34.06 | -22.03 | -11.97 |
| 3.689 to 3.690 | | | -37.14 | -42.63 | -22.03 | -15.11 | |
| 2 | 3 | 5 | 3.700 to 3.701 | -42.33 | -39.49 | -22.03 | -17.46 |
| | | | 3.701 to 3.710 | -36.84 | -36.63 | -22.03 | -14.60 |
| | | | 3.710 to 3.720 | -47.60 | -46.66 | -34.03 | -12.63 |
| | | | 3.530 to 3.580 | -40.22 | -41.12 | -34.03 | -6.19 |
| | | | 3.680 to 3.689 | -33.81 | -34.55 | -22.03 | -11.78 |
| | | 6 | 3.689 to 3.690 | -40.59 | -37.88 | -22.03 | -15.85 |
| | | | 3.700 to 3.701 | -41.50 | -39.62 | -22.03 | -17.59 |
| | | | 3.701 to 3.710 | -36.08 | -36.04 | -22.03 | -14.01 |
| | | | 3.710 to 3.720 | -47.35 | -45.49 | -34.03 | -11.46 |
| | | | 3.530 to 3.580 | -39.83 | -40.11 | -34.03 | -5.80 |
| | 4 | 7 | 3.680 to 3.689 | -34.23 | -34.11 | -22.03 | -12.08 |
| | | | 3.689 to 3.690 | -39.46 | -39.79 | -22.03 | -17.43 |
| | | | 3.700 to 3.701 | -38.42 | -39.50 | -22.03 | -16.39 |
| | | | 3.701 to 3.710 | -36.16 | -36.18 | -22.03 | -14.13 |
| | | | 3.710 to 3.720 | -47.36 | -47.99 | -34.03 | -13.33 |
| | | 8 | 3.530 to 3.580 | -40.16 | -40.61 | -34.03 | -6.13 |
| | | | 3.680 to 3.689 | -34.44 | -33.92 | -22.03 | -11.89 |
| | | | 3.689 to 3.690 | -41.12 | -39.81 | -22.03 | -17.78 |
| | | | 3.700 to 3.701 | -39.29 | -41.00 | -22.03 | -17.26 |
| | | | 3.701 to 3.710 | -36.09 | -36.23 | -22.03 | -14.06 |
| 8 | 3.710 to 3.720 | -46.07 | -46.10 | -34.03 | -12.04 | | |
| | 3.530 to 3.580 | -41.12 | -41.20 | -34.03 | -7.09 | | |
| | 3.680 to 3.689 | -34.38 | -34.13 | -22.03 | -12.10 | | |
| | 3.689 to 3.690 | -37.90 | -40.00 | -22.03 | -15.87 | | |
| | 3.700 to 3.701 | -41.62 | -39.11 | -22.03 | -17.08 | | |
| 3.701 to 3.710 | -36.65 | -36.76 | -22.03 | -14.62 | | | |
| 3.710 to 3.720 | -48.60 | -48.19 | -34.03 | -14.16 | | | |

Table 8-198. Channel Edge Emission Summary Data (n48_1C_10M_High Channel_8T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 183 of 289 |

| Sector | Zone | Port | Measured Range (GHz) | Max. Value (dBm) | | Limit (dBm) | Worst Margin (dB) |
|----------------|----------------|----------------|----------------------|------------------|--------|-------------|-------------------|
| | | | | QPSK | 16QAM | | |
| 1 | 1 | 1 | 3.530 to 3.540 | -48.07 | -42.90 | -34.03 | -8.87 |
| | | | 3.540 to 3.549 | -41.85 | -36.64 | -22.03 | -14.61 |
| | | | 3.549 to 3.550 | -33.48 | -34.42 | -22.03 | -11.45 |
| | | | 3.570 to 3.571 | -31.89 | -31.01 | -22.03 | -8.98 |
| | | | 3.571 to 3.580 | -41.45 | -37.31 | -22.03 | -15.28 |
| | | 3.580 to 3.720 | -42.80 | -37.60 | -34.03 | -3.57 | |
| | | 2 | 3.530 to 3.540 | -46.75 | -42.55 | -34.03 | -8.52 |
| | | | 3.540 to 3.549 | -40.05 | -37.24 | -22.03 | -15.21 |
| | | | 3.549 to 3.550 | -32.82 | -33.09 | -22.03 | -10.79 |
| | | | 3.570 to 3.571 | -31.08 | -31.32 | -22.03 | -9.05 |
| | 3.571 to 3.580 | | -40.16 | -39.36 | -22.03 | -17.33 | |
| | 2 | 3 | 3.580 to 3.720 | -41.39 | -39.50 | -34.03 | -5.47 |
| | | | 3.530 to 3.540 | -48.44 | -44.77 | -34.03 | -10.74 |
| | | | 3.540 to 3.549 | -42.05 | -37.08 | -22.03 | -15.05 |
| | | | 3.549 to 3.550 | -34.47 | -32.70 | -22.03 | -10.67 |
| | | | 3.570 to 3.571 | -31.21 | -29.90 | -22.03 | -7.87 |
| | | 4 | 3.571 to 3.580 | -41.13 | -38.12 | -22.03 | -16.09 |
| | | | 3.580 to 3.720 | -43.10 | -38.41 | -34.03 | -4.38 |
| | | | 3.530 to 3.540 | -46.59 | -41.23 | -34.03 | -7.20 |
| | | | 3.540 to 3.549 | -39.81 | -35.41 | -22.03 | -13.38 |
| 3.549 to 3.550 | | | -32.80 | -32.37 | -22.03 | -10.34 | |
| 2 | 3 | 5 | 3.570 to 3.571 | -33.35 | -31.50 | -22.03 | -9.47 |
| | | | 3.571 to 3.580 | -40.15 | -38.33 | -22.03 | -16.30 |
| | | | 3.580 to 3.720 | -42.45 | -38.92 | -34.03 | -4.89 |
| | | | 3.530 to 3.540 | -46.87 | -41.51 | -34.03 | -7.48 |
| | | | 3.540 to 3.549 | -42.14 | -36.65 | -22.03 | -14.62 |
| | | 6 | 3.549 to 3.550 | -35.39 | -32.95 | -22.03 | -10.92 |
| | | | 3.570 to 3.571 | -33.68 | -32.45 | -22.03 | -10.42 |
| | | | 3.571 to 3.580 | -41.63 | -38.39 | -22.03 | -16.36 |
| | | | 3.580 to 3.720 | -42.83 | -38.00 | -34.03 | -3.97 |
| | | | 3.530 to 3.540 | -46.15 | -43.67 | -34.03 | -9.64 |
| | 4 | 7 | 3.540 to 3.549 | -40.49 | -35.20 | -22.03 | -13.17 |
| | | | 3.549 to 3.550 | -34.56 | -33.00 | -22.03 | -10.97 |
| | | | 3.570 to 3.571 | -33.90 | -31.67 | -22.03 | -9.64 |
| | | | 3.571 to 3.580 | -41.18 | -38.07 | -22.03 | -16.04 |
| | | | 3.580 to 3.720 | -41.89 | -38.15 | -34.03 | -4.12 |
| | | 8 | 3.530 to 3.540 | -46.30 | -43.54 | -34.03 | -9.51 |
| | | | 3.540 to 3.549 | -41.40 | -38.41 | -22.03 | -16.38 |
| | | | 3.549 to 3.550 | -33.73 | -33.99 | -22.03 | -11.70 |
| | | | 3.570 to 3.571 | -33.98 | -31.12 | -22.03 | -9.09 |
| | | | 3.571 to 3.580 | -41.77 | -39.58 | -22.03 | -17.55 |

Table 8-199. Channel Edge Emission Summary Data (n48_1C_20M_Low Channel_8T)

| | | | | | |
|--|---|---------------------------------------|--|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 184 of 289 | |



| Sector | Zone | Port | Measured Range (GHz) | Max. Value (dBm) | | Limit (dBm) | Worst Margin (dB) |
|----------------|----------------|----------------|----------------------|------------------|--------|-------------|-------------------|
| | | | | QPSK | 16QAM | | |
| 1 | 1 | 1 | 3.530 to 3.605 | -40.37 | -40.92 | -34.03 | -6.34 |
| | | | 3.605 to 3.614 | -40.88 | -40.79 | -22.03 | -18.76 |
| | | | 3.614 to 3.615 | -33.56 | -32.29 | -22.03 | -10.26 |
| | | | 3.635 to 3.636 | -31.76 | -31.99 | -22.03 | -9.73 |
| | | | 3.636 to 3.645 | -40.94 | -41.05 | -22.03 | -18.91 |
| | | 3.645 to 3.720 | -43.78 | -43.73 | -34.03 | -9.70 | |
| | | 2 | 3.530 to 3.605 | -41.36 | -40.02 | -34.03 | -5.99 |
| | | | 3.605 to 3.614 | -40.00 | -41.11 | -22.03 | -17.97 |
| | | | 3.614 to 3.615 | -32.73 | -34.57 | -22.03 | -10.70 |
| | | | 3.635 to 3.636 | -32.60 | -32.23 | -22.03 | -10.20 |
| | 3.636 to 3.645 | | -41.04 | -40.32 | -22.03 | -18.29 | |
| | 2 | 3 | 3.645 to 3.720 | -42.88 | -44.03 | -34.03 | -8.85 |
| | | | 3.530 to 3.605 | -40.34 | -40.49 | -34.03 | -6.31 |
| | | | 3.605 to 3.614 | -39.79 | -40.25 | -22.03 | -17.76 |
| | | | 3.614 to 3.615 | -34.39 | -34.30 | -22.03 | -12.27 |
| | | | 3.635 to 3.636 | -32.58 | -32.35 | -22.03 | -10.32 |
| | | 4 | 3.636 to 3.645 | -41.09 | -41.30 | -22.03 | -19.06 |
| | | | 3.645 to 3.720 | -43.41 | -42.29 | -34.03 | -8.26 |
| | | | 3.530 to 3.605 | -39.66 | -39.76 | -34.03 | -5.63 |
| | | | 3.605 to 3.614 | -41.01 | -40.77 | -22.03 | -18.74 |
| 3.614 to 3.615 | | | -33.83 | -33.93 | -22.03 | -11.80 | |
| 2 | 3 | 5 | 3.635 to 3.636 | -33.56 | -31.51 | -22.03 | -9.48 |
| | | | 3.636 to 3.645 | -40.80 | -40.49 | -22.03 | -18.46 |
| | | | 3.645 to 3.720 | -42.45 | -42.78 | -34.03 | -8.42 |
| | | | 3.530 to 3.605 | -39.81 | -40.37 | -34.03 | -5.78 |
| | | | 3.605 to 3.614 | -40.06 | -40.52 | -22.03 | -18.03 |
| | | 6 | 3.614 to 3.615 | -31.80 | -33.45 | -22.03 | -9.77 |
| | | | 3.635 to 3.636 | -32.24 | -33.01 | -22.03 | -10.21 |
| | | | 3.636 to 3.645 | -40.45 | -40.87 | -22.03 | -18.42 |
| | | | 3.645 to 3.720 | -42.43 | -42.88 | -34.03 | -8.40 |
| | | | 3.530 to 3.605 | -38.97 | -39.51 | -34.03 | -4.94 |
| | 4 | 7 | 3.605 to 3.614 | -40.74 | -40.38 | -22.03 | -18.35 |
| | | | 3.614 to 3.615 | -32.89 | -33.69 | -22.03 | -10.86 |
| | | | 3.635 to 3.636 | -34.02 | -29.44 | -22.03 | -7.41 |
| | | | 3.636 to 3.645 | -40.67 | -39.98 | -22.03 | -17.95 |
| | | | 3.645 to 3.720 | -41.58 | -41.33 | -34.03 | -7.30 |
| | | 8 | 3.530 to 3.605 | -40.47 | -40.30 | -34.03 | -6.27 |
| | | | 3.605 to 3.614 | -42.43 | -40.24 | -22.03 | -18.21 |
| | | | 3.614 to 3.615 | -33.04 | -32.14 | -22.03 | -10.11 |
| | | | 3.635 to 3.636 | -31.57 | -32.91 | -22.03 | -9.54 |
| | | | 3.636 to 3.645 | -40.49 | -41.30 | -22.03 | -18.46 |
| 8 | 3.645 to 3.720 | -43.26 | -44.01 | -34.03 | -9.23 | | |
| | 3.530 to 3.605 | -40.08 | -39.89 | -34.03 | -5.86 | | |
| | 3.605 to 3.614 | -41.00 | -40.72 | -22.03 | -18.69 | | |
| | 3.614 to 3.615 | -32.72 | -34.34 | -22.03 | -10.69 | | |
| | 3.635 to 3.636 | -30.92 | -31.87 | -22.03 | -8.89 | | |
| 3.636 to 3.645 | -40.98 | -40.52 | -22.03 | -18.49 | | | |
| 3.645 to 3.720 | -43.00 | -42.70 | -34.03 | -8.67 | | | |

Table 8-200. Channel Edge Emission Summary Data (n48_1C_20M_Mid Channel_8T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 185 of 289 |


| Sector | Zone | Port | Measured Range (GHz) | Max. Value (dBm) | | Limit (dBm) | Worst Margin (dB) |
|----------------|----------------|----------------|----------------------|------------------|--------|-------------|-------------------|
| | | | | QPSK | 16QAM | | |
| 1 | 1 | 1 | 3.530 to 3.670 | -40.83 | -40.01 | -34.03 | -5.98 |
| | | | 3.670 to 3.679 | -40.61 | -40.50 | -22.03 | -18.47 |
| | | | 3.679 to 3.680 | -33.24 | -33.63 | -22.03 | -11.21 |
| | | | 3.700 to 3.701 | -34.10 | -34.00 | -22.03 | -11.97 |
| | | | 3.701 to 3.710 | -41.63 | -41.98 | -22.03 | -19.60 |
| | | 3.710 to 3.720 | -48.76 | -48.91 | -34.03 | -14.73 | |
| | | 2 | 3.530 to 3.670 | -41.16 | -39.62 | -34.03 | -5.59 |
| | | | 3.670 to 3.679 | -41.25 | -39.90 | -22.03 | -17.87 |
| | | | 3.679 to 3.680 | -34.15 | -33.08 | -22.03 | -11.05 |
| | | | 3.700 to 3.701 | -34.73 | -31.28 | -22.03 | -9.25 |
| | 3.701 to 3.710 | | -42.15 | -42.10 | -22.03 | -20.07 | |
| | 2 | 3 | 3.710 to 3.720 | -48.76 | -49.03 | -34.03 | -14.73 |
| | | | 3.530 to 3.670 | -39.95 | -38.53 | -34.03 | -4.50 |
| | | | 3.670 to 3.679 | -40.47 | -38.96 | -22.03 | -16.93 |
| | | | 3.679 to 3.680 | -33.48 | -33.20 | -22.03 | -11.17 |
| | | | 3.700 to 3.701 | -33.99 | -33.90 | -22.03 | -11.87 |
| | | 4 | 3.701 to 3.710 | -41.80 | -40.65 | -22.03 | -18.62 |
| | | | 3.710 to 3.720 | -49.08 | -47.21 | -34.03 | -13.18 |
| | | | 3.530 to 3.670 | -40.39 | -41.27 | -34.03 | -6.36 |
| | | | 3.670 to 3.679 | -40.06 | -41.15 | -22.03 | -18.03 |
| 3.679 to 3.680 | | | -31.94 | -33.42 | -22.03 | -9.91 | |
| 2 | 3 | 5 | 3.700 to 3.701 | -34.74 | -34.77 | -22.03 | -12.71 |
| | | | 3.701 to 3.710 | -41.32 | -42.37 | -22.03 | -19.29 |
| | | | 3.710 to 3.720 | -47.44 | -48.70 | -34.03 | -13.41 |
| | | | 3.530 to 3.670 | -40.92 | -40.47 | -34.03 | -6.44 |
| | | | 3.670 to 3.679 | -41.11 | -39.95 | -22.03 | -17.92 |
| | | 6 | 3.679 to 3.680 | -33.75 | -31.63 | -22.03 | -9.60 |
| | | | 3.700 to 3.701 | -34.17 | -34.62 | -22.03 | -12.14 |
| | | | 3.701 to 3.710 | -41.33 | -41.27 | -22.03 | -19.24 |
| | | | 3.710 to 3.720 | -47.55 | -47.45 | -34.03 | -13.42 |
| | | | 3.530 to 3.670 | -39.06 | -39.61 | -34.03 | -5.03 |
| | 4 | 7 | 3.670 to 3.679 | -40.39 | -40.05 | -22.03 | -18.02 |
| | | | 3.679 to 3.680 | -32.94 | -32.03 | -22.03 | -10.00 |
| | | | 3.700 to 3.701 | -33.62 | -35.70 | -22.03 | -11.59 |
| | | | 3.701 to 3.710 | -41.47 | -41.90 | -22.03 | -19.44 |
| | | | 3.710 to 3.720 | -48.05 | -48.07 | -34.03 | -14.02 |
| | | 8 | 3.530 to 3.670 | -40.35 | -38.94 | -34.03 | -4.91 |
| | | | 3.670 to 3.679 | -40.43 | -40.36 | -22.03 | -18.33 |
| | | | 3.679 to 3.680 | -32.13 | -33.30 | -22.03 | -10.10 |
| | | | 3.700 to 3.701 | -34.70 | -33.62 | -22.03 | -11.59 |
| | | | 3.701 to 3.710 | -40.62 | -41.78 | -22.03 | -18.59 |
| 8 | 3.710 to 3.720 | -47.30 | -47.78 | -34.03 | -13.27 | | |
| | 3.530 to 3.670 | -40.67 | -40.35 | -34.03 | -6.32 | | |
| | 3.670 to 3.679 | -40.60 | -41.12 | -22.03 | -18.57 | | |
| | 3.679 to 3.680 | -34.19 | -33.76 | -22.03 | -11.73 | | |
| | 3.700 to 3.701 | -32.97 | -35.27 | -22.03 | -10.94 | | |
| 3.701 to 3.710 | -41.39 | -42.15 | -22.03 | -19.36 | | | |
| 3.710 to 3.720 | -47.68 | -48.59 | -34.03 | -13.65 | | | |

Table 8-201. Channel Edge Emission Summary Data (n48_1C_20M_High Channel_8T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 186 of 289 |



| Sector | Zone | Port | Measured Range (GHz) | Max. Value (dBm) | | Limit (dBm) | Worst Margin (dB) |
|----------------|----------------|----------------|----------------------|------------------|--------|-------------|-------------------|
| | | | | QPSK | 16QAM | | |
| 1 | 1 | 1 | 3.530 to 3.540 | -48.15 | -48.40 | -34.03 | -14.12 |
| | | | 3.540 to 3.549 | -42.17 | -43.86 | -22.03 | -20.14 |
| | | | 3.549 to 3.550 | -32.13 | -31.38 | -22.03 | -9.35 |
| | | | 3.580 to 3.581 | -31.53 | -32.23 | -22.03 | -9.50 |
| | | | 3.581 to 3.590 | -41.87 | -43.28 | -22.03 | -19.84 |
| | | 3.590 to 3.720 | -41.58 | -42.56 | -34.03 | -7.55 | |
| | | 2 | 3.530 to 3.540 | -48.00 | -47.94 | -34.03 | -13.91 |
| | | | 3.540 to 3.549 | -43.16 | -43.73 | -22.03 | -21.13 |
| | | | 3.549 to 3.550 | -31.85 | -32.57 | -22.03 | -9.82 |
| | | | 3.580 to 3.581 | -31.27 | -33.99 | -22.03 | -9.24 |
| | 3.581 to 3.590 | | -41.19 | -42.29 | -22.03 | -19.16 | |
| | 2 | 3 | 3.590 to 3.720 | -41.32 | -41.66 | -34.03 | -7.29 |
| | | | 3.530 to 3.540 | -49.17 | -48.88 | -34.03 | -14.85 |
| | | | 3.540 to 3.549 | -41.78 | -43.53 | -22.03 | -19.75 |
| | | | 3.549 to 3.550 | -32.61 | -33.96 | -22.03 | -10.58 |
| | | | 3.580 to 3.581 | -31.19 | -31.69 | -22.03 | -9.16 |
| | | 4 | 3.581 to 3.590 | -41.87 | -42.13 | -22.03 | -19.84 |
| | | | 3.590 to 3.720 | -41.46 | -42.12 | -34.03 | -7.43 |
| | | | 3.530 to 3.540 | -45.89 | -46.11 | -34.03 | -11.86 |
| | | | 3.540 to 3.549 | -42.38 | -42.12 | -22.03 | -20.09 |
| 3.549 to 3.550 | | | -32.67 | -33.10 | -22.03 | -10.64 | |
| 2 | 3 | 5 | 3.580 to 3.581 | -30.71 | -32.34 | -22.03 | -8.68 |
| | | | 3.581 to 3.590 | -41.19 | -41.78 | -22.03 | -19.16 |
| | | | 3.590 to 3.720 | -40.83 | -40.59 | -34.03 | -6.56 |
| | | | 3.530 to 3.540 | -47.99 | -46.99 | -34.03 | -12.96 |
| | | | 3.540 to 3.549 | -43.72 | -43.45 | -22.03 | -21.42 |
| | | 6 | 3.549 to 3.550 | -31.73 | -30.25 | -22.03 | -8.22 |
| | | | 3.580 to 3.581 | -31.36 | -32.53 | -22.03 | -9.33 |
| | | | 3.581 to 3.590 | -42.63 | -43.17 | -22.03 | -20.60 |
| | | | 3.590 to 3.720 | -42.30 | -41.17 | -34.03 | -7.14 |
| | | | 3.530 to 3.540 | -47.69 | -46.99 | -34.03 | -12.96 |
| | 4 | 7 | 3.540 to 3.549 | -41.44 | -41.64 | -22.03 | -19.41 |
| | | | 3.549 to 3.550 | -32.47 | -32.89 | -22.03 | -10.44 |
| | | | 3.580 to 3.581 | -31.70 | -30.54 | -22.03 | -8.51 |
| | | | 3.581 to 3.590 | -40.95 | -41.01 | -22.03 | -18.92 |
| | | | 3.590 to 3.720 | -41.07 | -41.12 | -34.03 | -7.04 |
| | | 8 | 3.530 to 3.540 | -46.94 | -47.30 | -34.03 | -12.91 |
| | | | 3.540 to 3.549 | -42.80 | -43.74 | -22.03 | -20.77 |
| | | | 3.549 to 3.550 | -32.89 | -32.50 | -22.03 | -10.47 |
| | | | 3.580 to 3.581 | -32.86 | -33.07 | -22.03 | -10.83 |
| | | | 3.581 to 3.590 | -42.52 | -43.29 | -22.03 | -20.49 |
| 8 | 3.590 to 3.720 | -41.73 | -42.23 | -34.03 | -7.70 | | |
| | 3.530 to 3.540 | -48.63 | -48.30 | -34.03 | -14.27 | | |
| | 3.540 to 3.549 | -42.41 | -44.15 | -22.03 | -20.38 | | |
| | 3.549 to 3.550 | -33.84 | -33.21 | -22.03 | -11.18 | | |
| | 3.580 to 3.581 | -29.36 | -32.48 | -22.03 | -7.33 | | |
| 3.581 to 3.590 | -41.75 | -42.54 | -22.03 | -19.72 | | | |
| 3.590 to 3.720 | -41.95 | -41.82 | -34.03 | -7.79 | | | |

Table 8-202. Channel Edge Emission Summary Data (n48_1C_30M_Low Channel_8T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 187 of 289 |



| Sector | Zone | Port | Measured Range (GHz) | Max. Value (dBm) | | Limit (dBm) | Worst Margin (dB) |
|--------|------|------|----------------------|------------------|--------|-------------|-------------------|
| | | | | QPSK | 16QAM | | |
| 1 | 1 | 1 | 3.530 to 3.600 | -42.55 | -41.83 | -34.03 | -7.80 |
| | | | 3.600 to 3.609 | -41.50 | -42.03 | -22.03 | -19.47 |
| | | | 3.609 to 3.610 | -33.14 | -32.07 | -22.03 | -10.04 |
| | | | 3.640 to 3.641 | -31.69 | -31.87 | -22.03 | -9.66 |
| | | | 3.641 to 3.650 | -41.99 | -42.79 | -22.03 | -19.96 |
| | | | 3.650 to 3.720 | -41.65 | -43.47 | -34.03 | -7.62 |
| | | 2 | 3.530 to 3.600 | -41.03 | -41.83 | -34.03 | -7.00 |
| | | | 3.600 to 3.609 | -40.70 | -41.12 | -22.03 | -18.67 |
| | | | 3.609 to 3.610 | -31.55 | -32.20 | -22.03 | -9.52 |
| | | | 3.640 to 3.641 | -32.69 | -32.58 | -22.03 | -10.55 |
| | | | 3.641 to 3.650 | -42.95 | -42.89 | -22.03 | -20.86 |
| | | | 3.650 to 3.720 | -42.84 | -43.58 | -34.03 | -8.81 |
| | 2 | 3 | 3.530 to 3.600 | -41.69 | -41.91 | -34.03 | -7.66 |
| | | | 3.600 to 3.609 | -41.89 | -41.74 | -22.03 | -19.71 |
| | | | 3.609 to 3.610 | -31.78 | -31.92 | -22.03 | -9.75 |
| | | | 3.640 to 3.641 | -30.33 | -32.88 | -22.03 | -8.30 |
| | | | 3.641 to 3.650 | -42.38 | -42.56 | -22.03 | -20.35 |
| | | | 3.650 to 3.720 | -41.74 | -42.69 | -34.03 | -7.71 |
| | | 4 | 3.530 to 3.600 | -41.21 | -40.99 | -34.03 | -6.96 |
| | | | 3.600 to 3.609 | -40.47 | -41.35 | -22.03 | -18.44 |
| | | | 3.609 to 3.610 | -31.87 | -29.60 | -22.03 | -7.57 |
| | | | 3.640 to 3.641 | -31.59 | -31.26 | -22.03 | -9.23 |
| | | | 3.641 to 3.650 | -42.78 | -42.26 | -22.03 | -20.23 |
| | | | 3.650 to 3.720 | -41.74 | -42.06 | -34.03 | -7.71 |
| 2 | 3 | 5 | 3.530 to 3.600 | -42.76 | -41.14 | -34.03 | -7.11 |
| | | | 3.600 to 3.609 | -41.30 | -41.16 | -22.03 | -19.13 |
| | | | 3.609 to 3.610 | -32.39 | -31.25 | -22.03 | -9.22 |
| | | | 3.640 to 3.641 | -31.21 | -31.69 | -22.03 | -9.18 |
| | | | 3.641 to 3.650 | -42.68 | -42.17 | -22.03 | -20.14 |
| | | | 3.650 to 3.720 | -42.89 | -43.44 | -34.03 | -8.86 |
| | | 6 | 3.530 to 3.600 | -40.83 | -41.18 | -34.03 | -6.80 |
| | | | 3.600 to 3.609 | -40.60 | -41.29 | -22.03 | -18.57 |
| | | | 3.609 to 3.610 | -31.44 | -30.76 | -22.03 | -8.73 |
| | | | 3.640 to 3.641 | -30.41 | -28.65 | -22.03 | -6.62 |
| | | | 3.641 to 3.650 | -42.34 | -41.83 | -22.03 | -19.80 |
| | | | 3.650 to 3.720 | -40.15 | -41.61 | -34.03 | -6.12 |
| | 4 | 7 | 3.530 to 3.600 | -42.73 | -42.28 | -34.03 | -8.25 |
| | | | 3.600 to 3.609 | -42.55 | -42.03 | -22.03 | -20.00 |
| | | | 3.609 to 3.610 | -32.68 | -32.08 | -22.03 | -10.05 |
| | | | 3.640 to 3.641 | -30.95 | -33.39 | -22.03 | -8.92 |
| | | | 3.641 to 3.650 | -42.10 | -42.70 | -22.03 | -20.07 |
| | | | 3.650 to 3.720 | -41.57 | -42.65 | -34.03 | -7.54 |
| | | 8 | 3.530 to 3.600 | -42.27 | -41.30 | -34.03 | -7.27 |
| | | | 3.600 to 3.609 | -42.20 | -41.91 | -22.03 | -19.88 |
| | | | 3.609 to 3.610 | -32.81 | -31.25 | -22.03 | -9.22 |
| | | | 3.640 to 3.641 | -31.88 | -31.29 | -22.03 | -9.26 |
| | | | 3.530 to 3.600 | -42.45 | -41.96 | -22.03 | -19.93 |
| | | | 3.600 to 3.609 | -42.56 | -41.97 | -34.03 | -7.94 |

Table 8-203. Channel Edge Emission Summary Data (n48_1C_30M_Mid Channel_8T)

| | | | | |
|---|---|---|---|--|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | Page 188 of 289 | |


| Sector | Zone | Port | Measured Range (GHz) | Max. Value (dBm) | | Limit (dBm) | Worst Margin (dB) |
|----------------|----------------|----------------|----------------------|------------------|--------|-------------|-------------------|
| | | | | QPSK | 16QAM | | |
| 1 | 1 | 1 | 3.530 to 3.660 | -40.71 | -41.11 | -34.03 | -6.68 |
| | | | 3.660 to 3.669 | -42.72 | -42.01 | -22.03 | -19.98 |
| | | | 3.669 to 3.670 | -31.76 | -32.42 | -22.03 | -9.73 |
| | | | 3.700 to 3.701 | -31.01 | -32.45 | -22.03 | -8.98 |
| | | | 3.701 to 3.710 | -42.81 | -43.41 | -22.03 | -20.78 |
| | | 3.710 to 3.720 | -47.87 | -47.74 | -34.03 | -13.71 | |
| | | 2 | 3.530 to 3.660 | -41.35 | -40.96 | -34.03 | -6.93 |
| | | | 3.660 to 3.669 | -42.26 | -42.71 | -22.03 | -20.23 |
| | | | 3.669 to 3.670 | -31.46 | -29.80 | -22.03 | -7.77 |
| | | | 3.700 to 3.701 | -32.85 | -32.88 | -22.03 | -10.82 |
| | 3.701 to 3.710 | | -42.74 | -42.45 | -22.03 | -20.42 | |
| | 2 | 3 | 3.710 to 3.720 | -47.91 | -48.22 | -34.03 | -13.88 |
| | | | 3.530 to 3.660 | -40.42 | -39.95 | -34.03 | -5.92 |
| | | | 3.660 to 3.669 | -41.92 | -41.27 | -22.03 | -19.24 |
| | | | 3.669 to 3.670 | -29.65 | -29.93 | -22.03 | -7.62 |
| | | | 3.700 to 3.701 | -32.42 | -34.33 | -22.03 | -10.39 |
| | | 4 | 3.701 to 3.710 | -42.82 | -42.20 | -22.03 | -20.17 |
| | | | 3.710 to 3.720 | -47.54 | -47.54 | -34.03 | -13.51 |
| | | | 3.530 to 3.660 | -39.84 | -40.30 | -34.03 | -5.81 |
| | | | 3.660 to 3.669 | -42.58 | -41.51 | -22.03 | -19.48 |
| 3.669 to 3.670 | | | -29.81 | -27.83 | -22.03 | -5.80 | |
| 2 | 3 | 5 | 3.700 to 3.701 | -32.89 | -34.04 | -22.03 | -10.86 |
| | | | 3.701 to 3.710 | -42.89 | -42.14 | -22.03 | -20.11 |
| | | | 3.710 to 3.720 | -46.40 | -47.26 | -34.03 | -12.37 |
| | | | 3.530 to 3.660 | -40.89 | -39.32 | -34.03 | -5.29 |
| | | | 3.660 to 3.669 | -42.29 | -42.54 | -22.03 | -20.26 |
| | | 6 | 3.669 to 3.670 | -30.99 | -30.34 | -22.03 | -8.31 |
| | | | 3.700 to 3.701 | -33.86 | -33.96 | -22.03 | -11.83 |
| | | | 3.701 to 3.710 | -42.58 | -42.73 | -22.03 | -20.55 |
| | | | 3.710 to 3.720 | -47.52 | -48.17 | -34.03 | -13.49 |
| | | | 3.530 to 3.660 | -39.21 | -38.96 | -34.03 | -4.93 |
| | 4 | 7 | 3.660 to 3.669 | -40.89 | -41.33 | -22.03 | -18.86 |
| | | | 3.669 to 3.670 | -31.08 | -29.98 | -22.03 | -7.95 |
| | | | 3.700 to 3.701 | -33.44 | -34.29 | -22.03 | -11.41 |
| | | | 3.701 to 3.710 | -42.27 | -42.66 | -22.03 | -20.24 |
| | | | 3.710 to 3.720 | -47.11 | -47.36 | -34.03 | -13.08 |
| | | 8 | 3.530 to 3.660 | -40.74 | -39.92 | -34.03 | -5.89 |
| | | | 3.660 to 3.669 | -42.25 | -42.35 | -22.03 | -20.22 |
| | | | 3.669 to 3.670 | -31.07 | -30.12 | -22.03 | -8.09 |
| | | | 3.700 to 3.701 | -32.69 | -32.05 | -22.03 | -10.02 |
| | | | 3.701 to 3.710 | -42.78 | -41.44 | -22.03 | -19.41 |
| 8 | 3.710 to 3.720 | -47.11 | -46.83 | -34.03 | -12.80 | | |
| | 3.530 to 3.660 | -40.05 | -39.89 | -34.03 | -5.86 | | |
| | 3.660 to 3.669 | -42.39 | -42.10 | -22.03 | -20.07 | | |
| | 3.669 to 3.670 | -31.17 | -30.30 | -22.03 | -8.27 | | |
| | 3.700 to 3.701 | -33.37 | -31.66 | -22.03 | -9.63 | | |
| 3.701 to 3.710 | -42.13 | -42.32 | -22.03 | -20.10 | | | |
| 3.710 to 3.720 | -47.15 | -46.75 | -34.03 | -12.72 | | | |

Table 8-204. Channel Edge Emission Summary Data (n48_1C_30M_High Channel_8T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 189 of 289 |



| Sector | Zone | Port | Measured Range (GHz) | Max. Value (dBm) | | Limit (dBm) | Worst Margin (dB) |
|----------------|----------------|----------------|----------------------|------------------|--------|-------------|-------------------|
| | | | | QPSK | 16QAM | | |
| 1 | 1 | 1 | 3.530 to 3.540 | -48.72 | -48.24 | -34.03 | -14.21 |
| | | | 3.540 to 3.549 | -43.44 | -43.92 | -22.03 | -21.41 |
| | | | 3.549 to 3.550 | -27.63 | -27.78 | -22.03 | -5.60 |
| | | | 3.590 to 3.591 | -25.35 | -29.28 | -22.03 | -3.32 |
| | | | 3.591 to 3.600 | -42.27 | -42.14 | -22.03 | -20.11 |
| | | 3.600 to 3.720 | -42.20 | -41.92 | -34.03 | -7.89 | |
| | | 2 | 3.530 to 3.540 | -47.64 | -47.46 | -34.03 | -13.43 |
| | | | 3.540 to 3.549 | -42.73 | -42.93 | -22.03 | -20.70 |
| | | | 3.549 to 3.550 | -27.26 | -29.17 | -22.03 | -5.23 |
| | | | 3.590 to 3.591 | -27.99 | -29.07 | -22.03 | -5.96 |
| | 3.591 to 3.600 | | -42.40 | -41.37 | -22.03 | -19.34 | |
| | 2 | 3 | 3.600 to 3.720 | -42.22 | -41.51 | -34.03 | -7.48 |
| | | | 3.530 to 3.540 | -48.65 | -49.07 | -34.03 | -14.62 |
| | | | 3.540 to 3.549 | -43.99 | -43.52 | -22.03 | -21.49 |
| | | | 3.549 to 3.550 | -27.83 | -27.63 | -22.03 | -5.60 |
| | | | 3.590 to 3.591 | -27.85 | -30.48 | -22.03 | -5.82 |
| | | 4 | 3.591 to 3.600 | -42.22 | -42.25 | -22.03 | -20.19 |
| | | | 3.600 to 3.720 | -41.78 | -41.71 | -34.03 | -7.68 |
| | | | 3.530 to 3.540 | -45.61 | -45.39 | -34.03 | -11.36 |
| | | | 3.540 to 3.549 | -41.48 | -40.25 | -22.03 | -18.22 |
| 3.549 to 3.550 | | | -26.00 | -27.87 | -22.03 | -3.97 | |
| 2 | 3 | 5 | 3.590 to 3.591 | -27.59 | -27.29 | -22.03 | -5.26 |
| | | | 3.591 to 3.600 | -41.94 | -41.76 | -22.03 | -19.73 |
| | | | 3.600 to 3.720 | -41.68 | -39.96 | -34.03 | -5.93 |
| | | | 3.530 to 3.540 | -47.53 | -47.35 | -34.03 | -13.32 |
| | | | 3.540 to 3.549 | -43.62 | -43.50 | -22.03 | -21.47 |
| | | 6 | 3.549 to 3.550 | -25.47 | -26.98 | -22.03 | -3.44 |
| | | | 3.590 to 3.591 | -26.49 | -27.72 | -22.03 | -4.46 |
| | | | 3.591 to 3.600 | -42.61 | -42.81 | -22.03 | -20.58 |
| | | | 3.600 to 3.720 | -42.20 | -42.41 | -34.03 | -8.17 |
| | | | 3.530 to 3.540 | -46.67 | -46.93 | -34.03 | -12.64 |
| | 4 | 7 | 3.540 to 3.549 | -41.96 | -42.16 | -22.03 | -19.93 |
| | | | 3.549 to 3.550 | -27.08 | -27.35 | -22.03 | -5.05 |
| | | | 3.590 to 3.591 | -27.98 | -27.98 | -22.03 | -5.95 |
| | | | 3.591 to 3.600 | -41.06 | -40.36 | -22.03 | -18.33 |
| | | | 3.600 to 3.720 | -40.15 | -40.84 | -34.03 | -6.12 |
| | | 8 | 3.530 to 3.540 | -47.75 | -47.39 | -34.03 | -13.36 |
| | | | 3.540 to 3.549 | -43.78 | -44.09 | -22.03 | -21.75 |
| | | | 3.549 to 3.550 | -25.44 | -28.60 | -22.03 | -3.41 |
| | | | 3.590 to 3.591 | -29.18 | -26.83 | -22.03 | -4.80 |
| | | | 3.591 to 3.600 | -43.01 | -42.47 | -22.03 | -20.44 |
| 8 | 3.600 to 3.720 | -41.46 | -41.99 | -34.03 | -7.43 | | |
| | 3.530 to 3.540 | -48.94 | -48.34 | -34.03 | -14.31 | | |
| | 3.540 to 3.549 | -43.17 | -42.09 | -22.03 | -20.06 | | |
| | 3.549 to 3.550 | -27.94 | -26.66 | -22.03 | -4.63 | | |
| | 3.590 to 3.591 | -24.89 | -27.14 | -22.03 | -2.86 | | |
| 3.591 to 3.600 | -42.69 | -40.92 | -22.03 | -18.89 | | | |
| 3.600 to 3.720 | -42.29 | -41.94 | -34.03 | -7.91 | | | |

Table 8-205. Channel Edge Emission Summary Data (n48_1C_40M_Low Channel_8T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 190 of 289 |


| Sector | Zone | Port | Measured Range (GHz) | Max. Value (dBm) | | Limit (dBm) | Worst Margin (dB) |
|----------------|----------------|----------------|----------------------|------------------|--------|-------------|-------------------|
| | | | | QPSK | 16QAM | | |
| 1 | 1 | 1 | 3.530 to 3.595 | -42.57 | -42.48 | -34.03 | -8.45 |
| | | | 3.595 to 3.604 | -42.29 | -42.46 | -22.03 | -20.26 |
| | | | 3.604 to 3.605 | -29.23 | -27.83 | -22.03 | -5.80 |
| | | | 3.645 to 3.646 | -27.65 | -28.03 | -22.03 | -5.62 |
| | | | 3.646 to 3.655 | -42.69 | -42.47 | -22.03 | -20.44 |
| | | 3.655 to 3.720 | -42.34 | -40.15 | -34.03 | -6.12 | |
| | | 2 | 3.530 to 3.595 | -42.49 | -42.60 | -34.03 | -8.46 |
| | | | 3.595 to 3.604 | -41.43 | -42.53 | -22.03 | -19.40 |
| | | | 3.604 to 3.605 | -28.56 | -28.70 | -22.03 | -6.53 |
| | | | 3.645 to 3.646 | -26.33 | -28.28 | -22.03 | -4.30 |
| | 3.646 to 3.655 | | -42.71 | -42.41 | -22.03 | -20.38 | |
| | 2 | 3 | 3.655 to 3.720 | -43.72 | -43.08 | -34.03 | -9.05 |
| | | | 3.530 to 3.595 | -41.99 | -41.47 | -34.03 | -7.44 |
| | | | 3.595 to 3.604 | -41.82 | -41.69 | -22.03 | -19.66 |
| | | | 3.604 to 3.605 | -27.57 | -27.76 | -22.03 | -5.54 |
| | | | 3.645 to 3.646 | -27.18 | -28.80 | -22.03 | -5.15 |
| | | 4 | 3.646 to 3.655 | -41.24 | -41.50 | -22.03 | -19.21 |
| | | | 3.655 to 3.720 | -42.88 | -38.13 | -34.03 | -4.10 |
| | | | 3.530 to 3.595 | -40.05 | -40.82 | -34.03 | -6.02 |
| | | | 3.595 to 3.604 | -40.23 | -39.84 | -22.03 | -17.81 |
| 3.604 to 3.605 | | | -29.48 | -26.19 | -22.03 | -4.16 | |
| 2 | 3 | 5 | 3.645 to 3.646 | -27.11 | -28.74 | -22.03 | -5.08 |
| | | | 3.646 to 3.655 | -42.21 | -42.06 | -22.03 | -20.03 |
| | | | 3.655 to 3.720 | -42.54 | -40.12 | -34.03 | -6.09 |
| | | | 3.530 to 3.595 | -41.31 | -40.24 | -34.03 | -6.21 |
| | | | 3.595 to 3.604 | -41.60 | -41.76 | -22.03 | -19.57 |
| | | 6 | 3.604 to 3.605 | -28.09 | -28.77 | -22.03 | -6.06 |
| | | | 3.645 to 3.646 | -28.29 | -28.23 | -22.03 | -6.20 |
| | | | 3.646 to 3.655 | -42.91 | -42.39 | -22.03 | -20.36 |
| | | | 3.655 to 3.720 | -43.60 | -40.47 | -34.03 | -6.44 |
| | | | 3.530 to 3.595 | -41.28 | -41.90 | -34.03 | -7.25 |
| | 4 | 7 | 3.595 to 3.604 | -41.47 | -40.85 | -22.03 | -18.82 |
| | | | 3.604 to 3.605 | -26.72 | -27.25 | -22.03 | -4.69 |
| | | | 3.645 to 3.646 | -27.71 | -27.24 | -22.03 | -5.21 |
| | | | 3.646 to 3.655 | -41.49 | -41.64 | -22.03 | -19.46 |
| | | | 3.655 to 3.720 | -41.85 | -41.06 | -34.03 | -7.03 |
| | | 8 | 3.530 to 3.595 | -40.83 | -40.96 | -34.03 | -6.80 |
| | | | 3.595 to 3.604 | -41.87 | -41.77 | -22.03 | -19.74 |
| | | | 3.604 to 3.605 | -27.34 | -28.26 | -22.03 | -5.31 |
| | | | 3.645 to 3.646 | -27.38 | -28.49 | -22.03 | -5.35 |
| | | | 3.646 to 3.655 | -42.10 | -42.16 | -22.03 | -20.07 |
| 8 | 3.655 to 3.720 | -42.54 | -41.55 | -34.03 | -7.52 | | |
| | 3.530 to 3.595 | -42.02 | -42.35 | -34.03 | -7.99 | | |
| | 3.595 to 3.604 | -41.32 | -41.02 | -22.03 | -18.99 | | |
| | 3.604 to 3.605 | -27.81 | -28.40 | -22.03 | -5.78 | | |
| | 3.645 to 3.646 | -24.91 | -28.08 | -22.03 | -2.88 | | |
| 3.646 to 3.655 | -42.73 | -42.35 | -22.03 | -20.32 | | | |
| 3.655 to 3.720 | -43.77 | -39.96 | -34.03 | -5.93 | | | |

Table 8-206. Channel Edge Emission Summary Data (n48_1C_40M_Mid Channel_8T)

| | | | | | |
|--|---|---------------------------------------|--|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 191 of 289 | |

| Sector | Zone | Port | Measured Range (GHz) | Max. Value (dBm) | | Limit (dBm) | Worst Margin (dB) |
|----------------|----------------|----------------|----------------------|------------------|--------|-------------|-------------------|
| | | | | QPSK | 16QAM | | |
| 1 | 1 | 1 | 3.530 to 3.650 | -41.55 | -39.79 | -34.03 | -5.76 |
| | | | 3.650 to 3.659 | -44.03 | -43.45 | -22.03 | -21.42 |
| | | | 3.659 to 3.660 | -28.34 | -28.17 | -22.03 | -6.14 |
| | | | 3.700 to 3.701 | -27.95 | -29.42 | -22.03 | -5.92 |
| | | | 3.701 to 3.710 | -42.56 | -43.27 | -22.03 | -20.53 |
| | | 3.710 to 3.720 | -48.26 | -48.58 | -34.03 | -14.23 | |
| | | 2 | 3.530 to 3.650 | -41.41 | -39.87 | -34.03 | -5.84 |
| | | | 3.650 to 3.659 | -43.47 | -42.85 | -22.03 | -20.82 |
| | | | 3.659 to 3.660 | -27.65 | -28.11 | -22.03 | -5.62 |
| | | | 3.700 to 3.701 | -29.53 | -28.62 | -22.03 | -6.59 |
| | 3.701 to 3.710 | | -43.02 | -42.62 | -22.03 | -20.59 | |
| | 2 | 3 | 3.710 to 3.720 | -48.39 | -47.85 | -34.03 | -13.82 |
| | | | 3.530 to 3.650 | -40.71 | -40.34 | -34.03 | -6.31 |
| | | | 3.650 to 3.659 | -44.14 | -42.46 | -22.03 | -20.43 |
| | | | 3.659 to 3.660 | -28.39 | -27.87 | -22.03 | -5.84 |
| | | | 3.700 to 3.701 | -27.09 | -28.53 | -22.03 | -5.06 |
| | | 4 | 3.701 to 3.710 | -42.52 | -42.93 | -22.03 | -20.49 |
| | | | 3.710 to 3.720 | -48.45 | -48.92 | -34.03 | -14.42 |
| | | | 3.530 to 3.650 | -39.71 | -39.41 | -34.03 | -5.38 |
| | | | 3.650 to 3.659 | -42.63 | -41.60 | -22.03 | -19.57 |
| 3.659 to 3.660 | | | -27.54 | -28.09 | -22.03 | -5.51 | |
| 2 | 3 | 5 | 3.700 to 3.701 | -28.80 | -30.07 | -22.03 | -6.77 |
| | | | 3.701 to 3.710 | -42.93 | -43.30 | -22.03 | -20.90 |
| | | | 3.710 to 3.720 | -47.85 | -48.18 | -34.03 | -13.82 |
| | | | 3.530 to 3.650 | -41.14 | -41.49 | -34.03 | -7.11 |
| | | | 3.650 to 3.659 | -43.49 | -42.77 | -22.03 | -20.74 |
| | | 6 | 3.659 to 3.660 | -27.06 | -28.79 | -22.03 | -5.03 |
| | | | 3.700 to 3.701 | -28.13 | -27.21 | -22.03 | -5.18 |
| | | | 3.701 to 3.710 | -42.88 | -43.49 | -22.03 | -20.85 |
| | | | 3.710 to 3.720 | -48.64 | -49.01 | -34.03 | -14.61 |
| | | | 3.530 to 3.650 | -40.07 | -39.25 | -34.03 | -5.22 |
| | 4 | 7 | 3.650 to 3.659 | -42.82 | -41.23 | -22.03 | -19.20 |
| | | | 3.659 to 3.660 | -28.29 | -28.16 | -22.03 | -6.13 |
| | | | 3.700 to 3.701 | -29.77 | -27.74 | -22.03 | -5.71 |
| | | | 3.701 to 3.710 | -42.91 | -41.82 | -22.03 | -19.79 |
| | | | 3.710 to 3.720 | -47.15 | -47.42 | -34.03 | -13.12 |
| | | 8 | 3.530 to 3.650 | -39.98 | -37.98 | -34.03 | -3.95 |
| | | | 3.650 to 3.659 | -43.45 | -43.38 | -22.03 | -21.35 |
| | | | 3.659 to 3.660 | -27.81 | -26.50 | -22.03 | -4.47 |
| | | | 3.700 to 3.701 | -29.84 | -29.17 | -22.03 | -7.14 |
| | | | 3.701 to 3.710 | -42.66 | -42.98 | -22.03 | -20.63 |
| 8 | 3.710 to 3.720 | -47.68 | -47.60 | -34.03 | -13.57 | | |
| | 3.530 to 3.650 | -40.20 | -40.33 | -34.03 | -6.17 | | |
| | 3.650 to 3.659 | -44.03 | -43.51 | -22.03 | -21.48 | | |
| | 3.659 to 3.660 | -26.37 | -28.10 | -22.03 | -4.34 | | |
| | 3.700 to 3.701 | -29.80 | -28.95 | -22.03 | -6.92 | | |
| 3.701 to 3.710 | -43.58 | -43.43 | -22.03 | -21.40 | | | |
| 3.710 to 3.720 | -48.34 | -48.71 | -34.03 | -14.31 | | | |

Table 8-207. Channel Edge Emission Summary Data (n48_1C_40M_High Channel_8T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 192 of 289 |

| Configuration | Max. Value (dBm) | | | | | | Limit (dBm) | Worst Margin (dB) |
|------------------|----------------------|--------|----------------------|---------------|----------------------|--------|-------------|-------------------|
| | Measured Range (GHz) | Low | Measured Range (GHz) | Middle | Measured Range (GHz) | High | | |
| NR_2C 10M+10M | 3.530 to 3.540 | -48.65 | 3.530 to 3.605 | -39.64 | 3.530 to 3.670 | -40.42 | -34.03 | -5.61 |
| | 3.540 to 3.549 | -37.41 | 3.605 to 3.614 | -35.28 | 3.670 to 3.679 | -37.32 | -22.03 | -13.25 |
| | 3.549 to 3.550 | -33.42 | 3.614 to 3.615 | -30.88 | 3.679 to 3.680 | -31.65 | -22.03 | -8.85 |
| | 3.570 to 3.571 | -30.06 | 3.635 to 3.636 | -30.76 | 3.700 to 3.701 | -31.91 | -22.03 | -8.03 |
| | 3.571 to 3.580 | -38.92 | 3.636 to 3.645 | -37.87 | 3.701 to 3.710 | -39.71 | -22.03 | -15.84 |
| | 3.580 to 3.720 | -42.19 | 3.645 to 3.720 | -41.33 | 3.710 to 3.720 | -48.28 | -34.03 | -7.30 |
| NR_2C 10M+20M | 3.530 to 3.540 | -48.94 | 3.530 to 3.600 | -42.53 | 3.530 to 3.660 | -40.96 | -34.03 | -6.93 |
| | 3.540 to 3.549 | -40.12 | 3.600 to 3.609 | -38.21 | 3.660 to 3.669 | -38.87 | -22.03 | -16.18 |
| | 3.549 to 3.550 | -26.38 | 3.609 to 3.610 | -27.84 | 3.669 to 3.670 | -27.17 | -22.03 | -4.35 |
| | 3.580 to 3.581 | -29.93 | 3.640 to 3.641 | -29.34 | 3.700 to 3.701 | -30.23 | -22.03 | -7.31 |
| | 3.581 to 3.590 | -42.12 | 3.641 to 3.650 | -42.38 | 3.701 to 3.710 | -42.59 | -22.03 | -20.09 |
| | 3.590 to 3.720 | -41.92 | 3.650 to 3.720 | -43.05 | 3.710 to 3.720 | -48.07 | -34.03 | -7.89 |
| NR_2C 20M+20M | 3.530 to 3.540 | -49.27 | 3.530 to 3.595 | -42.45 | 3.530 to 3.650 | -40.93 | -34.03 | -6.90 |
| | 3.540 to 3.549 | -43.32 | 3.595 to 3.604 | -42.05 | 3.650 to 3.659 | -42.89 | -22.03 | -20.02 |
| | 3.549 to 3.550 | -27.06 | 3.604 to 3.605 | -26.56 | 3.659 to 3.660 | -26.38 | -22.03 | -4.35 |
| | 3.590 to 3.591 | -26.52 | 3.645 to 3.646 | -27.13 | 3.700 to 3.701 | -27.54 | -22.03 | -4.49 |
| | 3.591 to 3.600 | -42.26 | 3.646 to 3.655 | -42.39 | 3.701 to 3.710 | -42.20 | -22.03 | -20.17 |
| | 3.600 to 3.720 | -42.52 | 3.655 to 3.720 | -42.93 | 3.710 to 3.720 | -48.07 | -34.03 | -8.49 |
| NR_2C 30M+10M | 3.530 to 3.540 | -49.56 | 3.530 to 3.595 | -43.12 | 3.530 to 3.650 | -41.70 | -34.03 | -7.67 |
| | 3.540 to 3.549 | -43.63 | 3.595 to 3.604 | -43.00 | 3.650 to 3.659 | -43.40 | -22.03 | -20.97 |
| | 3.549 to 3.550 | -30.59 | 3.604 to 3.605 | -30.05 | 3.659 to 3.660 | -31.05 | -22.03 | -8.02 |
| | 3.590 to 3.591 | -25.82 | 3.645 to 3.646 | -24.81 | 3.700 to 3.701 | -24.88 | -22.03 | -2.78 |
| | 3.591 to 3.600 | -40.21 | 3.646 to 3.655 | -40.25 | 3.701 to 3.710 | -41.49 | -22.03 | -18.18 |
| | 3.600 to 3.720 | -42.79 | 3.655 to 3.720 | -43.46 | 3.710 to 3.720 | -48.67 | -34.03 | -8.76 |
| NR_2C 40M+40M | 3.530 to 3.540 | -48.93 | 3.530 to 3.575 | -41.44 | 3.530 to 3.610 | -40.50 | -34.03 | -6.47 |
| | 3.540 to 3.549 | -43.69 | 3.575 to 3.584 | -43.53 | 3.610 to 3.619 | -41.77 | -22.03 | -19.74 |
| | 3.549 to 3.550 | -42.33 | 3.584 to 3.585 | -42.29 | 3.619 to 3.620 | -41.86 | -22.03 | -19.83 |
| | 3.630 to 3.631 | -42.36 | 3.655 to 3.666 | -44.00 | 3.700 to 3.701 | -43.25 | -22.03 | -20.33 |
| | 3.631 to 3.640 | -42.72 | 3.666 to 3.675 | -44.49 | 3.701 to 3.710 | -43.69 | -22.03 | -20.69 |
| | 3.640 to 3.720 | -42.05 | 3.675 to 3.720 | -43.96 | 3.710 to 3.720 | -47.78 | -34.03 | -8.02 |

Table 8-208. Channel Edge Emission Summary Data (n48_Multi Carrier_8T)

| | | | | | |
|--|---|---------------------------------------|--|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | | Page 193 of 289 |

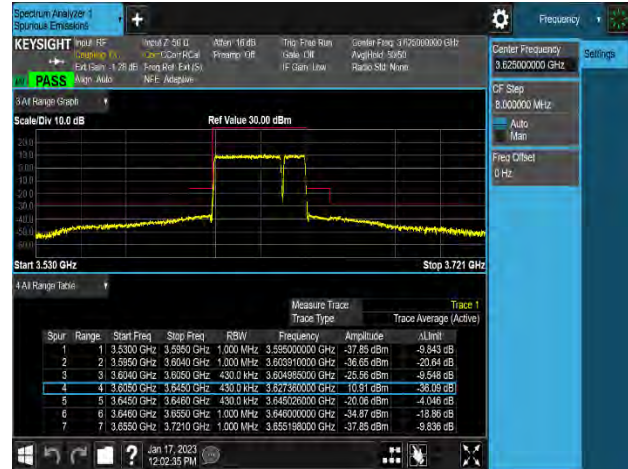
| Configuration | Measured Range (GHz) | Max. Value (dBm) | Limit (dBm) | Margin (dB) |
|---------------------------------|----------------------|------------------|-------------|--------------|
| NR_2C_10M+10M Non-Contiguous | 3.530 to 3.540 | -48.61 | -34.03 | -14.58 |
| | 3.540 to 3.549 | -36.18 | -22.03 | -14.15 |
| | 3.549 to 3.550 | -42.16 | -22.03 | -20.13 |
| | 3.560 to 3.561 | -41.79 | -22.03 | -19.76 |
| | 3.561 to 3.570 | -36.59 | -22.03 | -14.56 |
| | 3.570 to 3.680 | -41.90 | -34.03 | -7.87 |
| | 3.680 to 3.689 | -36.11 | -22.03 | -14.08 |
| | 3.689 to 3.690 | -39.68 | -22.03 | -17.65 |
| | 3.700 to 3.701 | -43.75 | -22.03 | -21.72 |
| | 3.701 to 3.710 | -38.26 | -22.03 | -16.23 |
| NR_2C_10M+20M Non-Contiguous | 3.710 to 3.720 | -48.97 | -34.03 | -14.94 |
| | 3.530 to 3.540 | -48.36 | -34.03 | -14.33 |
| | 3.540 to 3.549 | -40.31 | -22.03 | -18.28 |
| | 3.549 to 3.550 | -44.66 | -22.03 | -22.63 |
| | 3.560 to 3.561 | -40.96 | -22.03 | -18.93 |
| | 3.561 to 3.570 | -39.85 | -22.03 | -17.82 |
| | 3.570 to 3.670 | -41.77 | -34.03 | -7.74 |
| | 3.670 to 3.679 | -42.30 | -22.03 | -20.27 |
| | 3.679 to 3.680 | -34.89 | -22.03 | -12.86 |
| | 3.700 to 3.701 | -35.48 | -22.03 | -13.45 |
| NR_2C_20M+20M Non-Contiguous | 3.701 to 3.710 | -43.25 | -22.03 | -21.22 |
| | 3.710 to 3.720 | -49.69 | -34.03 | -15.66 |
| | 3.530 to 3.540 | -49.50 | -34.03 | -15.47 |
| | 3.540 to 3.549 | -43.57 | -22.03 | -21.54 |
| | 3.549 to 3.550 | -38.72 | -22.03 | -16.69 |
| | 3.570 to 3.571 | -36.39 | -22.03 | -14.36 |
| | 3.571 to 3.580 | -43.06 | -22.03 | -21.03 |
| | 3.580 to 3.670 | -41.67 | -34.03 | -7.64 |
| | 3.670 to 3.679 | -42.66 | -22.03 | -20.63 |
| | 3.679 to 3.680 | -35.94 | -22.03 | -13.91 |
| NR_2C_30M+10M Non-Contiguous | 3.700 to 3.701 | -35.32 | -22.03 | -13.29 |
| | 3.701 to 3.710 | -44.36 | -22.03 | -22.33 |
| | 3.710 to 3.720 | -49.66 | -34.03 | -15.63 |
| | 3.530 to 3.540 | -50.23 | -34.03 | -16.20 |
| | 3.540 to 3.549 | -42.68 | -22.03 | -20.65 |
| | 3.549 to 3.550 | -33.91 | -22.03 | -11.88 |
| | 3.580 to 3.581 | -33.23 | -22.03 | -11.20 |
| | 3.581 to 3.590 | -43.67 | -22.03 | -21.64 |
| | 3.590 to 3.680 | -41.33 | -34.03 | -7.30 |
| | 3.680 to 3.689 | -39.73 | -22.03 | -17.70 |
| NR_2C_40M+40M Non-Contiguous | 3.689 to 3.690 | -44.82 | -22.03 | -22.79 |
| | 3.700 to 3.701 | -46.36 | -22.03 | -24.33 |
| | 3.701 to 3.710 | -41.88 | -22.03 | -19.85 |
| | 3.710 to 3.720 | -50.80 | -34.03 | -16.77 |
| | 3.530 to 3.540 | -49.04 | -34.03 | -15.01 |
| | 3.540 to 3.549 | -43.67 | -22.03 | -21.64 |
| | 3.549 to 3.550 | -32.74 | -22.03 | -10.71 |
| | 3.590 to 3.591 | -32.97 | -22.03 | -10.94 |
| | 3.591 to 3.600 | -43.59 | -22.03 | -21.56 |
| | 3.600 to 3.650 | -41.00 | -34.03 | -6.97 |
| 3.650 to 3.659 | -45.00 | -22.03 | -22.97 | |
| 3.659 to 3.660 | -31.21 | -22.03 | -9.18 | |
| 3.700 to 3.701 | -30.11 | -22.03 | -8.08 | |
| 3.701 to 3.710 | -45.88 | -22.03 | -23.85 | |
| 3.710 to 3.720 | -50.52 | -34.03 | -16.49 | |

Table 8-209. Channel Edge Emission Summary Data (n48_NC_Multi Carrier_8T)

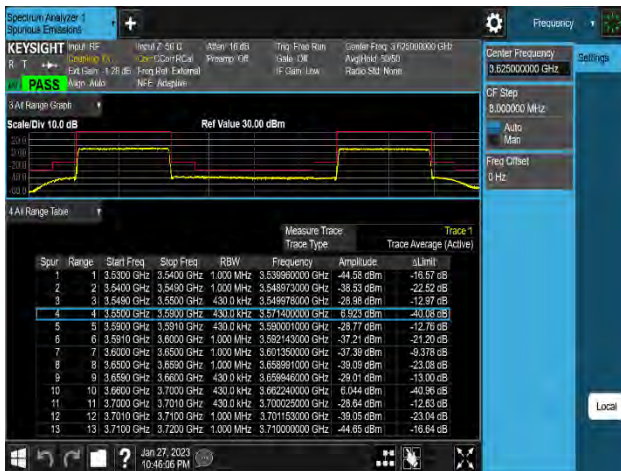
| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 194 of 289 |



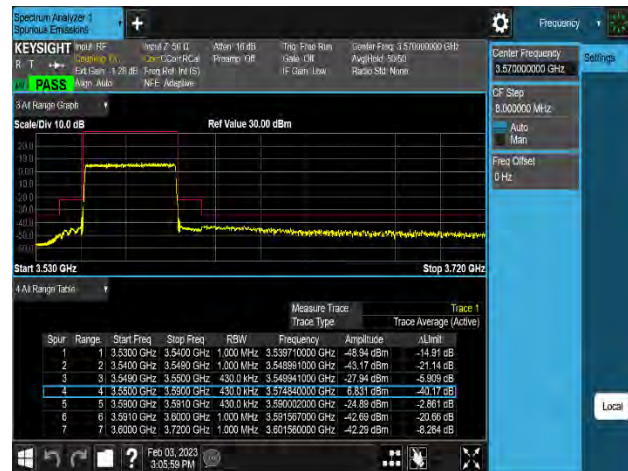
Plot 8-242. Channel Edge Emission Plot (n48_1C_30M_16QAM – High Channel_2T, Port 6)



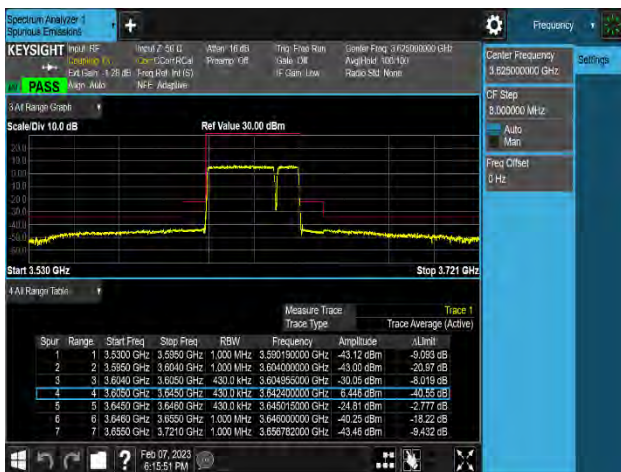
Plot 8-243. Channel Edge Emission Plot (n48_2C_30M+10M_QPSK – Mid Channel_2T, Port 1)



Plot 8-244. Channel Edge Emission Plot (n48_2C_40M+40M_QPSK – Non-Contiguous_2T, Port 1)



Plot 8-245. Channel Edge Emission Plot (n48_1C_40M_QPSK – Low Channel_8T, Port 8)



Plot 8-246. Channel Edge Emission Plot (n48_2C_30M+10M_QPSK – Mid Channel_8T, Port 1)



Plot 8-247. Channel Edge Emission Plot (n48_2C_40M+40M_QPSK – Non-Contiguous_8T, Port 1)

| | | | | |
|--|--|------------------------------------|--|-----------------------------------|
| FCC: A3LSOG2201 | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 195 of 289 |

8.8 Spurious and Harmonic Emissions at Antenna Terminal

Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Procedure Used

ANSI C63.26 - Section 5.2.3.4.
KDB 971168 D01 v03r01 - Section 6
KDB 662911 D01 v02r01 - Section E)3)

Test Setting

1. Start frequency was set to 30 MHz and stop frequency was set to at least 10 * the fundamental frequency excluding the frequency range of the Channel Edge measurement.
2. RBW: 1 MHz
3. VBW $\geq 3 \times$ RBW
4. Detector = RMS
5. Number of sweep points $\geq 2 \times$ Span/RBW
6. Trace mode = trace average
7. Sweep time = auto couple
8. The trace was allowed to stabilize

Limit

- Any emission below 3530 MHz and above 3720 MHz ≤ -40 dBm/MHz

Test Setup

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

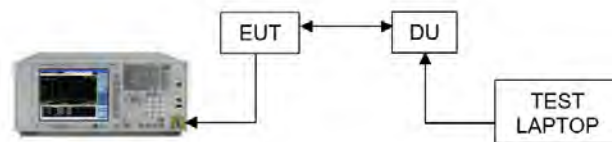


Figure 8-7. Test Instrument & Measurement Setup

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 196 of 289 |

Test Notes

1. All modes of operation were investigated and the worst configuration result plots are reported in each RF chain.
2. When detected Emission, this value has been applied as reference offset in the spectrum analyzer.
Duty cycle correction factor was added to spectrum analyzer.
Duty cycle = transmit on-time / transmitter period = 3.72 ms / 5.00 ms = 0.74
Duty cycle correction factor = $10 \cdot \log(1/\text{duty cycle}) = 10 \cdot \log(1/0.74) = 1.28 \text{ dB}$
3. The limits were adjusted by a factor of $[-10 \cdot \log(n)] \text{ dB}$ to account for the device operation as a n port MIMO transmitter, as per FCC KDB 622911. MIMO Factor calculation as below:
4. When the channel edge detect with a margin of under 1dB to Limit, That used to integration method was performed using the spectrum analyzer's band power functions. The spectrum analyzer marker was placed at one-half of the RBW away from the band edge. The integration value was set to a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter.

| Frequency range | Basic Limit (dBm/MHz) | MIMO Factor (dB) | | | Adjusted limit (dBm) | | |
|-----------------------------------|-----------------------|------------------|------|------|----------------------|---------|---------|
| | | 2T | 4T | 8T | 2T | 4T | 8T |
| below 3530 MHz and above 3720 MHz | -40.00 | 3.01 | 6.02 | 9.03 | - 43.01 | - 46.02 | - 49.03 |

Note: Adjusted limit (dBm/MHz) = Basic limit (dBm/1MHz) - MIMO Factor

| | | | | |
|--|---|------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 197 of 289 |

| Sector | Zone | Port | Measurement Range | Level (dBm) | | | | Limit (dBm) | Worst Margin (dB) |
|--------|------|------|---------------------|-------------|--------|--------|--------|-------------|-------------------|
| | | | | QPSK | 16QAM | 64QAM | 256QAM | | |
| 1 | 1 | 1 | 30 MHz to 3.53 GHz | -58.87 | -58.98 | -58.75 | -58.22 | -43.01 | -15.21 |
| | | | 3.72 GHz to 6.2 GHz | -53.95 | -53.79 | -53.83 | -53.92 | -43.01 | -10.78 |
| | | | 6.2 GHz to 18 GHz | -62.08 | -61.41 | -61.96 | -61.88 | -43.01 | -18.40 |
| | | | 18 GHz to 40 GHz | -66.57 | -66.82 | -66.16 | -66.91 | -43.01 | -23.15 |
| | | 2 | 30 MHz to 3.53 GHz | -58.20 | -57.54 | -58.44 | -58.57 | -43.01 | -14.53 |
| | | | 3.72 GHz to 6.2 GHz | -52.90 | -52.64 | -53.02 | -53.11 | -43.01 | -9.63 |
| | | | 6.2 GHz to 18 GHz | -60.60 | -61.09 | -60.07 | -61.05 | -43.01 | -17.06 |
| | | | 18 GHz to 40 GHz | -66.56 | -66.01 | -66.15 | -67.16 | -43.01 | -23.00 |
| | 2 | 3 | 30 MHz to 3.53 GHz | -58.57 | -58.02 | -58.64 | -58.08 | -43.01 | -15.01 |
| | | | 3.72 GHz to 6.2 GHz | -52.57 | -53.30 | -53.59 | -52.00 | -43.01 | -8.99 |
| | | | 6.2 GHz to 18 GHz | -60.66 | -60.65 | -60.12 | -59.84 | -43.01 | -16.83 |
| | | | 18 GHz to 40 GHz | -66.18 | -66.19 | -66.74 | -66.10 | -43.01 | -23.09 |
| | | 4 | 30 MHz to 3.53 GHz | -57.22 | -57.02 | -57.17 | -57.03 | -43.01 | -14.01 |
| | | | 3.72 GHz to 6.2 GHz | -53.84 | -53.93 | -53.63 | -53.68 | -43.01 | -10.62 |
| | | | 6.2 GHz to 18 GHz | -59.96 | -60.99 | -61.12 | -60.36 | -43.01 | -16.95 |
| | | | 18 GHz to 40 GHz | -66.50 | -66.83 | -66.38 | -66.30 | -43.01 | -23.29 |
| 2 | 3 | 5 | 30 MHz to 3.53 GHz | -58.06 | -58.52 | -58.57 | -58.31 | -43.01 | -15.05 |
| | | | 3.72 GHz to 6.2 GHz | -54.04 | -53.75 | -54.18 | -53.68 | -43.01 | -10.67 |
| | | | 6.2 GHz to 18 GHz | -60.19 | -60.18 | -59.72 | -60.19 | -43.01 | -16.71 |
| | | | 18 GHz to 40 GHz | -66.94 | -66.92 | -65.79 | -64.63 | -43.01 | -21.62 |
| | | 6 | 30 MHz to 3.53 GHz | -56.27 | -56.43 | -56.51 | -54.99 | -43.01 | -11.98 |
| | | | 3.72 GHz to 6.2 GHz | -54.32 | -54.59 | -54.33 | -53.51 | -43.01 | -10.50 |
| | | | 6.2 GHz to 18 GHz | -61.07 | -61.54 | -60.92 | -60.68 | -43.01 | -17.67 |
| | | | 18 GHz to 40 GHz | -66.54 | -66.02 | -66.06 | -67.25 | -43.01 | -23.01 |
| | 4 | 7 | 30 MHz to 3.53 GHz | -58.07 | -57.10 | -58.11 | -57.37 | -43.01 | -14.09 |
| | | | 3.72 GHz to 6.2 GHz | -53.86 | -54.06 | -53.76 | -53.69 | -43.01 | -10.68 |
| | | | 6.2 GHz to 18 GHz | -59.87 | -60.64 | -60.47 | -59.30 | -43.01 | -16.29 |
| | | | 18 GHz to 40 GHz | -65.92 | -66.63 | -66.51 | -66.70 | -43.01 | -22.91 |
| | | 8 | 30 MHz to 3.53 GHz | -57.46 | -57.68 | -57.22 | -57.13 | -43.01 | -14.12 |
| | | | 3.72 GHz to 6.2 GHz | -52.74 | -52.36 | -52.94 | -52.64 | -43.01 | -9.35 |
| | | | 6.2 GHz to 18 GHz | -57.17 | -57.49 | -57.19 | -56.93 | -43.01 | -13.92 |
| | | | 18 GHz to 40 GHz | -66.58 | -66.73 | -66.24 | -66.90 | -43.01 | -23.23 |

Table 8-210. Conducted Spurious Emission Summary Data (n48_1C_10M_Low Channel_2T)

| | | | | |
|---|---|---|---|--|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 198 of 289 |

| Sector | Zone | Port | Measurement Range | Level (dBm) | | | | Limit (dBm) | Worst Margin (dB) |
|--------|------|------|---------------------|-------------|--------|--------|--------|-------------|-------------------|
| | | | | QPSK | 16QAM | 64QAM | 256QAM | | |
| 1 | 1 | 1 | 30 MHz to 3.53 GHz | -58.61 | -59.30 | -58.83 | -58.81 | -43.01 | -15.60 |
| | | | 3.72 GHz to 6.2 GHz | -53.09 | -53.71 | -53.65 | -53.40 | -43.01 | -10.08 |
| | | | 6.2 GHz to 18 GHz | -61.59 | -61.53 | -61.10 | -61.60 | -43.01 | -18.09 |
| | | | 18 GHz to 40 GHz | -67.32 | -66.38 | -65.97 | -66.97 | -43.01 | -22.96 |
| | | 2 | 30 MHz to 3.53 GHz | -58.80 | -58.01 | -58.85 | -58.34 | -43.01 | -15.00 |
| | | | 3.72 GHz to 6.2 GHz | -53.15 | -54.02 | -53.47 | -53.42 | -43.01 | -10.14 |
| | | | 6.2 GHz to 18 GHz | -60.70 | -60.20 | -60.40 | -60.66 | -43.01 | -17.19 |
| | | | 18 GHz to 40 GHz | -67.15 | -66.58 | -66.29 | -65.41 | -43.01 | -22.40 |
| | 2 | 3 | 30 MHz to 3.53 GHz | -58.10 | -58.38 | -58.02 | -58.30 | -43.01 | -15.01 |
| | | | 3.72 GHz to 6.2 GHz | -53.05 | -53.01 | -52.59 | -53.03 | -43.01 | -9.58 |
| | | | 6.2 GHz to 18 GHz | -59.80 | -59.93 | -59.77 | -59.73 | -43.01 | -16.72 |
| | | | 18 GHz to 40 GHz | -66.44 | -66.96 | -66.61 | -64.94 | -43.01 | -21.93 |
| | | 4 | 30 MHz to 3.53 GHz | -57.08 | -57.30 | -57.10 | -56.91 | -43.01 | -13.90 |
| | | | 3.72 GHz to 6.2 GHz | -53.57 | -53.95 | -53.99 | -53.23 | -43.01 | -10.22 |
| | | | 6.2 GHz to 18 GHz | -60.34 | -60.26 | -60.26 | -60.41 | -43.01 | -17.25 |
| | | | 18 GHz to 40 GHz | -66.80 | -65.58 | -66.17 | -66.95 | -43.01 | -22.57 |
| 2 | 3 | 5 | 30 MHz to 3.53 GHz | -58.85 | -57.88 | -58.47 | -58.40 | -43.01 | -14.87 |
| | | | 3.72 GHz to 6.2 GHz | -52.45 | -53.12 | -53.63 | -53.31 | -43.01 | -9.44 |
| | | | 6.2 GHz to 18 GHz | -60.19 | -60.25 | -59.97 | -59.82 | -43.01 | -16.81 |
| | | | 18 GHz to 40 GHz | -66.36 | -66.02 | -65.80 | -66.66 | -43.01 | -22.79 |
| | | 6 | 30 MHz to 3.53 GHz | -57.11 | -54.84 | -56.25 | -56.49 | -43.01 | -11.83 |
| | | | 3.72 GHz to 6.2 GHz | -53.84 | -53.73 | -53.70 | -53.78 | -43.01 | -10.69 |
| | | | 6.2 GHz to 18 GHz | -60.87 | -61.23 | -60.80 | -60.18 | -43.01 | -17.17 |
| | | | 18 GHz to 40 GHz | -66.06 | -64.91 | -66.36 | -66.90 | -43.01 | -21.90 |
| | 4 | 7 | 30 MHz to 3.53 GHz | -58.41 | -56.79 | -57.93 | -57.61 | -43.01 | -13.78 |
| | | | 3.72 GHz to 6.2 GHz | -52.96 | -52.64 | -53.39 | -53.23 | -43.01 | -9.63 |
| | | | 6.2 GHz to 18 GHz | -60.45 | -59.93 | -60.14 | -60.76 | -43.01 | -16.92 |
| | | | 18 GHz to 40 GHz | -67.40 | -65.39 | -65.61 | -66.91 | -43.01 | -22.38 |
| | | 8 | 30 MHz to 3.53 GHz | -56.62 | -57.00 | -57.07 | -57.09 | -43.01 | -13.61 |
| | | | 3.72 GHz to 6.2 GHz | -51.69 | -51.64 | -52.10 | -53.18 | -43.01 | -8.63 |
| | | | 6.2 GHz to 18 GHz | -57.40 | -57.02 | -56.28 | -57.40 | -43.01 | -13.27 |
| | | | 18 GHz to 40 GHz | -65.52 | -66.29 | -65.89 | -65.33 | -43.01 | -22.32 |

Table 8-211. Conducted Spurious Emission Summary Data (n48_1C_10M_Mid Channel_2T)

| | | | | |
|---|---|---|---|--|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 199 of 289 |

| Sector | Zone | Port | Measurement Range | Level (dBm) | | | | Limit (dBm) | Worst Margin (dB) |
|--------|------|------|---------------------|---------------|--------|--------|--------|-------------|-------------------|
| | | | | QPSK | 16QAM | 64QAM | 256QAM | | |
| 1 | 1 | 1 | 30 MHz to 3.53 GHz | -59.24 | -58.40 | -59.10 | -57.18 | -43.01 | -14.17 |
| | | | 3.72 GHz to 6.2 GHz | -51.42 | -51.94 | -52.41 | -51.16 | -43.01 | -8.15 |
| | | | 6.2 GHz to 18 GHz | -61.45 | -61.40 | -61.04 | -61.53 | -43.01 | -18.03 |
| | | | 18 GHz to 40 GHz | -65.94 | -66.20 | -66.34 | -65.82 | -43.01 | -22.81 |
| | | 2 | 30 MHz to 3.53 GHz | -58.52 | -57.54 | -58.81 | -58.92 | -43.01 | -14.53 |
| | | | 3.72 GHz to 6.2 GHz | -52.27 | -51.69 | -51.92 | -52.41 | -43.01 | -8.68 |
| | | | 6.2 GHz to 18 GHz | -60.78 | -60.70 | -60.80 | -59.57 | -43.01 | -16.56 |
| | | | 18 GHz to 40 GHz | -66.41 | -66.69 | -66.67 | -67.02 | -43.01 | -23.40 |
| | 2 | 3 | 30 MHz to 3.53 GHz | -58.48 | -58.71 | -58.64 | -58.06 | -43.01 | -15.05 |
| | | | 3.72 GHz to 6.2 GHz | -50.59 | -50.65 | -51.40 | -51.16 | -43.01 | -7.58 |
| | | | 6.2 GHz to 18 GHz | -60.01 | -58.88 | -60.11 | -59.26 | -43.01 | -15.87 |
| | | | 18 GHz to 40 GHz | -67.07 | -67.23 | -66.36 | -65.91 | -43.01 | -22.90 |
| | | 4 | 30 MHz to 3.53 GHz | -57.37 | -57.50 | -57.40 | -57.57 | -43.01 | -14.36 |
| | | | 3.72 GHz to 6.2 GHz | -53.66 | -53.61 | -53.68 | -53.21 | -43.01 | -10.20 |
| | | | 6.2 GHz to 18 GHz | -61.00 | -60.44 | -60.48 | -60.67 | -43.01 | -17.43 |
| | | | 18 GHz to 40 GHz | -66.57 | -66.56 | -66.14 | -66.97 | -43.01 | -23.13 |
| 2 | 3 | 5 | 30 MHz to 3.53 GHz | -57.97 | -58.00 | -59.12 | -59.02 | -43.01 | -14.96 |
| | | | 3.72 GHz to 6.2 GHz | -52.87 | -51.59 | -51.79 | -51.81 | -43.01 | -8.58 |
| | | | 6.2 GHz to 18 GHz | -59.73 | -60.56 | -60.49 | -59.70 | -43.01 | -16.69 |
| | | | 18 GHz to 40 GHz | -65.79 | -65.93 | -65.45 | -66.77 | -43.01 | -22.44 |
| | | 6 | 30 MHz to 3.53 GHz | -56.33 | -56.17 | -56.58 | -56.81 | -43.01 | -13.16 |
| | | | 3.72 GHz to 6.2 GHz | -53.52 | -54.28 | -53.58 | -53.44 | -43.01 | -10.43 |
| | | | 6.2 GHz to 18 GHz | -61.18 | -61.33 | -61.01 | -61.21 | -43.01 | -18.00 |
| | | | 18 GHz to 40 GHz | -65.83 | -66.89 | -66.66 | -66.06 | -43.01 | -22.82 |
| | 4 | 7 | 30 MHz to 3.53 GHz | -58.34 | -57.32 | -56.59 | -57.88 | -43.01 | -13.58 |
| | | | 3.72 GHz to 6.2 GHz | -53.43 | -52.93 | -53.00 | -53.41 | -43.01 | -9.92 |
| | | | 6.2 GHz to 18 GHz | -59.94 | -60.20 | -60.54 | -60.25 | -43.01 | -16.93 |
| | | | 18 GHz to 40 GHz | -66.32 | -67.36 | -66.23 | -66.40 | -43.01 | -23.22 |
| | | 8 | 30 MHz to 3.53 GHz | -56.69 | -56.73 | -57.42 | -57.69 | -43.01 | -13.68 |
| | | | 3.72 GHz to 6.2 GHz | -53.00 | -52.42 | -52.56 | -51.38 | -43.01 | -8.37 |
| | | | 6.2 GHz to 18 GHz | -57.20 | -57.15 | -57.41 | -56.80 | -43.01 | -13.79 |
| | | | 18 GHz to 40 GHz | -65.23 | -65.80 | -66.18 | -66.49 | -43.01 | -22.22 |

Table 8-212. Conducted Spurious Emission Summary Data (n48_1C_10M_High Channel_2T)


| Sector | Zone | Port | Measurement Range | Level (dBm) | | | | Limit (dBm) | Worst Margin (dB) |
|--------|------|------|---------------------|-------------|--------|--------|--------|-------------|-------------------|
| | | | | QPSK | 16QAM | 64QAM | 256QAM | | |
| 1 | 2 | 3 | 30 MHz to 3.53 GHz | -58.48 | -58.71 | -58.64 | -58.06 | -46.02 | -12.05 |
| | | | 3.72 GHz to 6.2 GHz | -50.59 | -50.65 | -51.40 | -51.16 | -46.02 | -4.58 |
| | | | 6.2 GHz to 18 GHz | -60.01 | -58.88 | -60.11 | -59.26 | -46.02 | -12.87 |
| | | | 18 GHz to 40 GHz | -67.07 | -67.23 | -66.36 | -65.91 | -46.02 | -19.90 |

Table 8-213. Conducted Spurious Emission Summary Data Worst Mode 4T limit calculation (n48_1C_10M_4T)

| | | | | | | |
|--|---|----------------------------------|---------------------------------------|-----------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | | MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 200 of 289 | | |


| Sector | Zone | Port | Measurement Range | Level (dBm) | | | | Limit (dBm) | Worst Margin (dB) |
|--------|------|------|---------------------|-------------|--------|--------|---------------|-------------|-------------------|
| | | | | QPSK | 16QAM | 64QAM | 256QAM | | |
| 1 | 1 | 1 | 30 MHz to 3.53 GHz | -57.61 | -58.57 | -57.71 | -57.99 | -43.01 | -14.60 |
| | | | 3.72 GHz to 6.2 GHz | -54.43 | -53.02 | -52.58 | -52.71 | -43.01 | -9.57 |
| | | | 6.2 GHz to 18 GHz | -61.63 | -61.90 | -61.38 | -61.70 | -43.01 | -18.37 |
| | | | 18 GHz to 40 GHz | -66.50 | -65.92 | -65.69 | -67.17 | -43.01 | -22.68 |
| | | 2 | 30 MHz to 3.53 GHz | -58.10 | -56.41 | -56.09 | -56.37 | -43.01 | -13.08 |
| | | | 3.72 GHz to 6.2 GHz | -53.56 | -53.88 | -52.91 | -53.10 | -43.01 | -9.90 |
| | | | 6.2 GHz to 18 GHz | -61.10 | -60.24 | -60.84 | -59.97 | -43.01 | -16.96 |
| | | | 18 GHz to 40 GHz | -67.08 | -66.36 | -66.18 | -67.52 | -43.01 | -23.17 |
| | 2 | 3 | 30 MHz to 3.53 GHz | -58.42 | -56.69 | -56.91 | -58.10 | -43.01 | -13.68 |
| | | | 3.72 GHz to 6.2 GHz | -53.02 | -53.78 | -52.83 | -52.38 | -43.01 | -9.37 |
| | | | 6.2 GHz to 18 GHz | -59.81 | -60.19 | -60.21 | -60.01 | -43.01 | -16.80 |
| | | | 18 GHz to 40 GHz | -66.12 | -66.20 | -65.66 | -66.66 | -43.01 | -22.65 |
| | | 4 | 30 MHz to 3.53 GHz | -55.64 | -51.72 | -52.05 | -51.30 | -43.01 | -8.29 |
| | | | 3.72 GHz to 6.2 GHz | -53.57 | -53.95 | -52.98 | -52.96 | -43.01 | -9.95 |
| | | | 6.2 GHz to 18 GHz | -60.61 | -60.70 | -60.68 | -60.87 | -43.01 | -17.60 |
| | | | 18 GHz to 40 GHz | -66.81 | -66.09 | -66.91 | -66.40 | -43.01 | -23.08 |
| 2 | 3 | 5 | 30 MHz to 3.53 GHz | -55.33 | -57.92 | -58.20 | -57.98 | -43.01 | -12.32 |
| | | | 3.72 GHz to 6.2 GHz | -53.91 | -53.42 | -53.58 | -53.32 | -43.01 | -10.31 |
| | | | 6.2 GHz to 18 GHz | -60.26 | -59.42 | -60.35 | -60.18 | -43.01 | -16.41 |
| | | | 18 GHz to 40 GHz | -65.73 | -67.01 | -66.59 | -67.06 | -43.01 | -22.72 |
| | | 6 | 30 MHz to 3.53 GHz | -54.38 | -54.53 | -53.01 | -53.89 | -43.01 | -10.00 |
| | | | 3.72 GHz to 6.2 GHz | -54.06 | -54.03 | -53.64 | -54.19 | -43.01 | -10.63 |
| | | | 6.2 GHz to 18 GHz | -61.15 | -59.46 | -61.40 | -61.20 | -43.01 | -16.45 |
| | | | 18 GHz to 40 GHz | -66.87 | -66.81 | -66.46 | -67.39 | -43.01 | -23.45 |
| | 4 | 7 | 30 MHz to 3.53 GHz | -58.09 | -57.90 | -57.80 | -57.51 | -43.01 | -14.50 |
| | | | 3.72 GHz to 6.2 GHz | -53.46 | -53.40 | -53.99 | -52.89 | -43.01 | -9.88 |
| | | | 6.2 GHz to 18 GHz | -59.91 | -60.33 | -60.12 | -59.84 | -43.01 | -16.83 |
| | | | 18 GHz to 40 GHz | -65.96 | -65.96 | -66.40 | -66.37 | -43.01 | -22.95 |
| | | 8 | 30 MHz to 3.53 GHz | -57.87 | -56.96 | -57.49 | -56.51 | -43.01 | -13.50 |
| | | | 3.72 GHz to 6.2 GHz | -52.78 | -52.79 | -52.34 | -52.49 | -43.01 | -9.33 |
| | | | 6.2 GHz to 18 GHz | -56.66 | -57.77 | -57.75 | -57.12 | -43.01 | -13.65 |
| | | | 18 GHz to 40 GHz | -66.39 | -65.54 | -67.30 | -66.52 | -43.01 | -22.53 |

Table 8-214. Conducted Spurious Emission Summary Data (n48_2C_40M+40M_Low Channel_2T)

| | | | | | |
|--|---|---------------------------------------|--|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 201 of 289 | |

| Sector | Zone | Port | Measurement Range | Level (dBm) | | | | Limit (dBm) | Worst Margin (dB) |
|--------|------|------|---------------------|-------------|--------|--------|--------|-------------|-------------------|
| | | | | QPSK | 16QAM | 64QAM | 256QAM | | |
| 1 | 1 | 1 | 30 MHz to 3.53 GHz | -58.80 | -59.09 | -58.98 | -58.26 | -43.01 | -15.25 |
| | | | 3.72 GHz to 6.2 GHz | -53.35 | -53.79 | -53.20 | -53.64 | -43.01 | -10.19 |
| | | | 6.2 GHz to 18 GHz | -61.19 | -61.56 | -61.75 | -61.85 | -43.01 | -18.18 |
| | | | 18 GHz to 40 GHz | -66.23 | -66.15 | -67.20 | -67.15 | -43.01 | -23.14 |
| | | 2 | 30 MHz to 3.53 GHz | -59.22 | -57.59 | -58.56 | -57.24 | -43.01 | -14.23 |
| | | | 3.72 GHz to 6.2 GHz | -53.03 | -53.26 | -54.08 | -53.24 | -43.01 | -10.02 |
| | | | 6.2 GHz to 18 GHz | -60.87 | -60.61 | -61.21 | -60.54 | -43.01 | -17.53 |
| | | | 18 GHz to 40 GHz | -66.61 | -65.84 | -66.03 | -65.97 | -43.01 | -22.83 |
| | 2 | 3 | 30 MHz to 3.53 GHz | -57.89 | -57.09 | -58.44 | -58.55 | -43.01 | -14.08 |
| | | | 3.72 GHz to 6.2 GHz | -53.05 | -52.62 | -53.44 | -52.29 | -43.01 | -9.28 |
| | | | 6.2 GHz to 18 GHz | -59.51 | -59.45 | -59.55 | -59.95 | -43.01 | -16.44 |
| | | | 18 GHz to 40 GHz | -67.29 | -66.04 | -67.13 | -66.31 | -43.01 | -23.03 |
| | | 4 | 30 MHz to 3.53 GHz | -54.79 | -54.16 | -54.86 | -56.12 | -43.01 | -11.15 |
| | | | 3.72 GHz to 6.2 GHz | -53.84 | -53.02 | -53.54 | -53.64 | -43.01 | -10.01 |
| | | | 6.2 GHz to 18 GHz | -60.97 | -60.49 | -59.82 | -60.34 | -43.01 | -16.81 |
| | | | 18 GHz to 40 GHz | -66.00 | -66.23 | -64.90 | -66.58 | -43.01 | -21.89 |
| 2 | 3 | 5 | 30 MHz to 3.53 GHz | -58.35 | -57.66 | -58.49 | -57.98 | -43.01 | -14.65 |
| | | | 3.72 GHz to 6.2 GHz | -53.15 | -53.37 | -53.12 | -53.39 | -43.01 | -10.11 |
| | | | 6.2 GHz to 18 GHz | -59.78 | -59.81 | -60.09 | -60.38 | -43.01 | -16.77 |
| | | | 18 GHz to 40 GHz | -65.92 | -66.10 | -65.68 | -65.40 | -43.01 | -22.39 |
| | | 6 | 30 MHz to 3.53 GHz | -56.74 | -56.24 | -56.42 | -56.51 | -43.01 | -13.23 |
| | | | 3.72 GHz to 6.2 GHz | -53.72 | -54.63 | -54.21 | -53.94 | -43.01 | -10.71 |
| | | | 6.2 GHz to 18 GHz | -61.40 | -60.89 | -60.98 | -60.05 | -43.01 | -17.04 |
| | | | 18 GHz to 40 GHz | -65.80 | -66.30 | -65.97 | -65.77 | -43.01 | -22.76 |
| | 4 | 7 | 30 MHz to 3.53 GHz | -57.47 | -58.21 | -57.30 | -57.82 | -43.01 | -14.29 |
| | | | 3.72 GHz to 6.2 GHz | -53.96 | -53.19 | -53.63 | -53.11 | -43.01 | -10.10 |
| | | | 6.2 GHz to 18 GHz | -60.51 | -59.89 | -59.89 | -60.73 | -43.01 | -16.88 |
| | | | 18 GHz to 40 GHz | -65.37 | -66.76 | -65.31 | -66.04 | -43.01 | -22.30 |
| | | 8 | 30 MHz to 3.53 GHz | -57.17 | -57.13 | -56.99 | -56.93 | -43.01 | -13.92 |
| | | | 3.72 GHz to 6.2 GHz | -53.43 | -52.32 | -51.84 | -51.73 | -43.01 | -8.72 |
| | | | 6.2 GHz to 18 GHz | -57.09 | -57.03 | -57.54 | -56.65 | -43.01 | -13.64 |
| | | | 18 GHz to 40 GHz | -66.38 | -66.83 | -66.66 | -67.13 | -43.01 | -23.37 |

Table 8-215. Conducted Spurious Emission Summary Data (n48_2C_40M+40M_Mid Channel_2T)

| | | | | |
|---|---|---|---|--|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 202 of 289 |

| Sector | Zone | Port | Measurement Range | Level (dBm) | | | | Limit (dBm) | Worst Margin (dB) |
|--------|------|------|---------------------|-------------|--------|--------|--------|-------------|-------------------|
| | | | | QPSK | 16QAM | 64QAM | 256QAM | | |
| 1 | 1 | 1 | 30 MHz to 3.53 GHz | -59.16 | -59.29 | -58.19 | -58.81 | -43.01 | -15.18 |
| | | | 3.72 GHz to 6.2 GHz | -53.25 | -53.16 | -53.33 | -54.11 | -43.01 | -10.15 |
| | | | 6.2 GHz to 18 GHz | -61.85 | -61.63 | -61.68 | -61.94 | -43.01 | -18.62 |
| | | | 18 GHz to 40 GHz | -66.60 | -66.83 | -67.24 | -66.73 | -43.01 | -23.59 |
| | | 2 | 30 MHz to 3.53 GHz | -58.21 | -58.67 | -56.85 | -57.93 | -43.01 | -13.84 |
| | | | 3.72 GHz to 6.2 GHz | -52.97 | -53.14 | -52.51 | -52.85 | -43.01 | -9.50 |
| | | | 6.2 GHz to 18 GHz | -60.33 | -60.44 | -60.26 | -60.91 | -43.01 | -17.25 |
| | | | 18 GHz to 40 GHz | -66.05 | -66.63 | -66.95 | -66.60 | -43.01 | -23.04 |
| | 2 | 3 | 30 MHz to 3.53 GHz | -57.95 | -57.31 | -57.97 | -56.44 | -43.01 | -13.43 |
| | | | 3.72 GHz to 6.2 GHz | -53.15 | -53.13 | -51.51 | -51.82 | -43.01 | -8.50 |
| | | | 6.2 GHz to 18 GHz | -59.47 | -60.61 | -60.50 | -59.77 | -43.01 | -16.46 |
| | | | 18 GHz to 40 GHz | -66.04 | -66.91 | -65.18 | -67.06 | -43.01 | -22.17 |
| | | 4 | 30 MHz to 3.53 GHz | -56.59 | -57.39 | -56.59 | -57.43 | -43.01 | -13.58 |
| | | | 3.72 GHz to 6.2 GHz | -52.90 | -53.18 | -52.55 | -51.77 | -43.01 | -8.76 |
| | | | 6.2 GHz to 18 GHz | -60.39 | -60.80 | -60.68 | -61.10 | -43.01 | -17.38 |
| | | | 18 GHz to 40 GHz | -66.29 | -65.75 | -66.97 | -66.88 | -43.01 | -22.74 |
| 2 | 3 | 5 | 30 MHz to 3.53 GHz | -57.85 | -58.83 | -58.22 | -58.41 | -43.01 | -14.84 |
| | | | 3.72 GHz to 6.2 GHz | -53.41 | -52.69 | -53.45 | -53.96 | -43.01 | -9.68 |
| | | | 6.2 GHz to 18 GHz | -59.97 | -60.06 | -59.96 | -60.34 | -43.01 | -16.95 |
| | | | 18 GHz to 40 GHz | -66.15 | -65.50 | -66.30 | -66.34 | -43.01 | -22.49 |
| | | 6 | 30 MHz to 3.53 GHz | -56.83 | -56.44 | -56.38 | -55.83 | -43.01 | -12.82 |
| | | | 3.72 GHz to 6.2 GHz | -54.17 | -54.09 | -53.19 | -54.07 | -43.01 | -10.18 |
| | | | 6.2 GHz to 18 GHz | -60.65 | -61.59 | -60.70 | -61.18 | -43.01 | -17.64 |
| | | | 18 GHz to 40 GHz | -66.10 | -66.26 | -67.00 | -66.60 | -43.01 | -23.09 |
| | 4 | 7 | 30 MHz to 3.53 GHz | -58.48 | -58.38 | -57.72 | -57.51 | -43.01 | -14.50 |
| | | | 3.72 GHz to 6.2 GHz | -52.54 | -53.30 | -53.56 | -53.69 | -43.01 | -9.53 |
| | | | 6.2 GHz to 18 GHz | -60.28 | -59.86 | -59.78 | -60.00 | -43.01 | -16.77 |
| | | | 18 GHz to 40 GHz | -66.48 | -66.87 | -65.88 | -66.39 | -43.01 | -22.87 |
| | | 8 | 30 MHz to 3.53 GHz | -56.84 | -58.03 | -57.36 | -57.56 | -43.01 | -13.83 |
| | | | 3.72 GHz to 6.2 GHz | -52.01 | -52.55 | -52.25 | -52.42 | -43.01 | -9.00 |
| | | | 6.2 GHz to 18 GHz | -56.85 | -57.18 | -56.99 | -56.97 | -43.01 | -13.84 |
| | | | 18 GHz to 40 GHz | -66.57 | -66.47 | -67.03 | -66.21 | -43.01 | -23.20 |

Table 8-216. Conducted Spurious Emission Summary Data (n48_2C_40M+40M_High Channel_2T)

| Sector | Zone | Port | Measurement Range | Level (dBm) | | | | Limit (dBm) | Worst Margin (dB) |
|--------|------|------|---------------------|-------------|--------|--------|--------|-------------|-------------------|
| | | | | QPSK | 16QAM | 64QAM | 256QAM | | |
| 1 | 2 | 3 | 30 MHz to 3.53 GHz | -55.64 | -51.72 | -52.05 | -51.30 | -46.01 | -5.29 |
| | | | 3.72 GHz to 6.2 GHz | -53.57 | -53.95 | -52.98 | -52.96 | -46.01 | -6.95 |
| | | | 6.2 GHz to 18 GHz | -60.61 | -60.70 | -60.68 | -60.87 | -46.01 | -14.60 |
| | | | 18 GHz to 40 GHz | -66.81 | -66.09 | -66.91 | -66.40 | -46.01 | -20.08 |

Table 8-217. Conducted Spurious Emission Summary Data (n48_40M+40M Worst Mode 4T limit calculation)


| | | | | | | |
|--|---|----------------------------------|---------------------------------------|-----------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | | MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 203 of 289 | | |

| Sector | Zone | Port | Measurement Range | Level (dBm) | Limit (dBm) | Worst Margin (dB) |
|--------|------|------|---------------------|---------------|-------------|-------------------|
| | | | | QPSK | | |
| 1 | 1 | 1 | 30 MHz to 3.53 GHz | -57.47 | -43.01 | -14.46 |
| | | | 3.72 GHz to 6.2 GHz | -53.94 | -43.01 | -10.93 |
| | | | 6.2 GHz to 18 GHz | -61.35 | -43.01 | -18.34 |
| | | | 18 GHz to 40 GHz | -67.23 | -43.01 | -24.22 |
| | | 2 | 30 MHz to 3.53 GHz | -58.11 | -43.01 | -15.10 |
| | | | 3.72 GHz to 6.2 GHz | -52.65 | -43.01 | -9.64 |
| | | | 6.2 GHz to 18 GHz | -61.16 | -43.01 | -18.15 |
| | | | 18 GHz to 40 GHz | -65.90 | -43.01 | -22.89 |
| | 2 | 3 | 30 MHz to 3.53 GHz | -57.40 | -43.01 | -14.39 |
| | | | 3.72 GHz to 6.2 GHz | -51.79 | -43.01 | -8.78 |
| | | | 6.2 GHz to 18 GHz | -60.52 | -43.01 | -17.51 |
| | | | 18 GHz to 40 GHz | -66.63 | -43.01 | -23.62 |
| | | 4 | 30 MHz to 3.53 GHz | -54.88 | -43.01 | -11.87 |
| | | | 3.72 GHz to 6.2 GHz | -53.18 | -43.01 | -10.17 |
| | | | 6.2 GHz to 18 GHz | -60.83 | -43.01 | -17.82 |
| | | | 18 GHz to 40 GHz | -66.47 | -43.01 | -23.46 |
| 2 | 3 | 5 | 30 MHz to 3.53 GHz | -58.07 | -43.01 | -15.06 |
| | | | 3.72 GHz to 6.2 GHz | -53.35 | -43.01 | -10.34 |
| | | | 6.2 GHz to 18 GHz | -60.44 | -43.01 | -17.43 |
| | | | 18 GHz to 40 GHz | -66.66 | -43.01 | -23.65 |
| | | 6 | 30 MHz to 3.53 GHz | -56.21 | -43.01 | -13.20 |
| | | | 3.72 GHz to 6.2 GHz | -54.12 | -43.01 | -11.11 |
| | | | 6.2 GHz to 18 GHz | -61.12 | -43.01 | -18.11 |
| | | | 18 GHz to 40 GHz | -66.85 | -43.01 | -23.84 |
| | 4 | 7 | 30 MHz to 3.53 GHz | -57.33 | -43.01 | -14.32 |
| | | | 3.72 GHz to 6.2 GHz | -53.75 | -43.01 | -10.74 |
| | | | 6.2 GHz to 18 GHz | -60.19 | -43.01 | -17.18 |
| | | | 18 GHz to 40 GHz | -65.99 | -43.01 | -22.98 |
| | | 8 | 30 MHz to 3.53 GHz | -56.72 | -43.01 | -13.71 |
| | | | 3.72 GHz to 6.2 GHz | -52.41 | -43.01 | -9.40 |
| | | | 6.2 GHz to 18 GHz | -56.51 | -43.01 | -13.50 |
| | | | 18 GHz to 40 GHz | -66.65 | -43.01 | -23.64 |

Table 8-218. Conducted Spurious Emission Summary Data (n48_2NC_40M+40M_Mid Channel_2T)


| Sector | Zone | Port | Measurement Range | Level (dBm) | Limit (dBm) | Worst Margin (dB) |
|--------|------|------|---------------------|-------------|-------------|-------------------|
| | | | | QPSK | | |
| 1 | 2 | 3 | 30 MHz to 3.53 GHz | -57.40 | -46.01 | -11.39 |
| | | | 3.72 GHz to 6.2 GHz | -51.79 | -46.01 | -5.78 |
| | | | 6.2 GHz to 18 GHz | -60.52 | -46.01 | -14.51 |
| | | | 18 GHz to 40 GHz | -66.63 | -46.01 | -20.62 |

Table 8-219. Conducted Spurious Emission Summary Data (n48_2NC_40M+40M_Worst Mode 4T limit calculation)

| | | | | | | |
|--|---|----------------------------------|---------------------------------------|-----------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | | MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 204 of 289 | | |

| Sector | Zone | Port | Measurement Range | Level (dBm) | Limit (dBm) | Worst Margin (dB) |
|--------|------|------|---------------------|-------------|-------------|-------------------|
| | | | | QPSK | | |
| 1 | 1 | 1 | 30 MHz to 3.53 GHz | -59.04 | -49.03 | -9.88 |
| | | | 3.72 GHz to 6.2 GHz | -53.93 | -49.03 | -4.24 |
| | | | 6.2 GHz to 18 GHz | -61.51 | -49.03 | -12.48 |
| | | | 18 GHz to 40 GHz | -65.96 | -49.03 | -16.54 |
| | | 2 | 30 MHz to 3.53 GHz | -59.22 | -49.03 | -9.93 |
| | | | 3.72 GHz to 6.2 GHz | -53.64 | -49.03 | -4.61 |
| | | | 6.2 GHz to 18 GHz | -60.37 | -49.03 | -11.34 |
| | | | 18 GHz to 40 GHz | -66.12 | -49.03 | -17.09 |
| | 2 | 3 | 30 MHz to 3.53 GHz | -57.80 | -49.03 | -8.77 |
| | | | 3.72 GHz to 6.2 GHz | -52.52 | -49.03 | -3.49 |
| | | | 6.2 GHz to 18 GHz | -60.11 | -49.03 | -11.08 |
| | | | 18 GHz to 40 GHz | -67.41 | -49.03 | -16.84 |
| | | 4 | 30 MHz to 3.53 GHz | -57.14 | -49.03 | -7.89 |
| | | | 3.72 GHz to 6.2 GHz | -53.99 | -49.03 | -4.87 |
| | | | 6.2 GHz to 18 GHz | -60.55 | -49.03 | -11.52 |
| | | | 18 GHz to 40 GHz | -66.64 | -49.03 | -17.61 |
| 2 | 3 | 5 | 30 MHz to 3.53 GHz | -58.91 | -49.03 | -9.10 |
| | | | 3.72 GHz to 6.2 GHz | -52.14 | -49.03 | -3.11 |
| | | | 6.2 GHz to 18 GHz | -59.05 | -49.03 | -10.02 |
| | | | 18 GHz to 40 GHz | -65.55 | -49.03 | -16.52 |
| | | 6 | 30 MHz to 3.53 GHz | -56.55 | -49.03 | -7.52 |
| | | | 3.72 GHz to 6.2 GHz | -54.35 | -49.03 | -4.49 |
| | | | 6.2 GHz to 18 GHz | -60.30 | -49.03 | -11.27 |
| | | | 18 GHz to 40 GHz | -65.73 | -49.03 | -16.70 |
| | 4 | 7 | 30 MHz to 3.53 GHz | -58.67 | -49.03 | -9.64 |
| | | | 3.72 GHz to 6.2 GHz | -53.70 | -49.03 | -4.67 |
| | | | 6.2 GHz to 18 GHz | -59.54 | -49.03 | -10.51 |
| | | | 18 GHz to 40 GHz | -66.43 | -49.03 | -17.40 |
| | | 8 | 30 MHz to 3.53 GHz | -57.42 | -49.03 | -8.39 |
| | | | 3.72 GHz to 6.2 GHz | -52.48 | -49.03 | -3.45 |
| | | | 6.2 GHz to 18 GHz | -56.54 | -49.03 | -7.51 |
| | | | 18 GHz to 40 GHz | -66.54 | -49.03 | -17.23 |

Table 8-220. Conducted Spurious Emission Summary Data (n48_1C_10M_Low Channel_8T)

| | | | | | |
|---|---|---|--|---|--|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 205 of 289 | |

| Sector | Zone | Port | Measurement Range | Level (dBm) | Limit (dBm) | Worst Margin (dB) |
|--------|------|------|---------------------|---------------|-------------|-------------------|
| | | | | QPSK | | |
| 1 | 1 | 1 | 30 MHz to 3.53 GHz | -58.93 | -49.03 | -9.68 |
| | | | 3.72 GHz to 6.2 GHz | -53.97 | -49.03 | -4.67 |
| | | | 6.2 GHz to 18 GHz | -61.55 | -49.03 | -12.22 |
| | | | 18 GHz to 40 GHz | -66.58 | -49.03 | -17.33 |
| | | 2 | 30 MHz to 3.53 GHz | -59.23 | -49.03 | -9.39 |
| | | | 3.72 GHz to 6.2 GHz | -53.25 | -49.03 | -3.85 |
| | | | 6.2 GHz to 18 GHz | -60.50 | -49.03 | -11.47 |
| | | | 18 GHz to 40 GHz | -66.12 | -49.03 | -17.09 |
| | 2 | 3 | 30 MHz to 3.53 GHz | -58.47 | -49.03 | -9.37 |
| | | | 3.72 GHz to 6.2 GHz | -53.10 | -49.03 | -3.43 |
| | | | 6.2 GHz to 18 GHz | -60.16 | -49.03 | -11.13 |
| | | | 18 GHz to 40 GHz | -67.23 | -49.03 | -17.33 |
| | | 4 | 30 MHz to 3.53 GHz | -56.80 | -49.03 | -7.77 |
| | | | 3.72 GHz to 6.2 GHz | -53.49 | -49.03 | -4.46 |
| | | | 6.2 GHz to 18 GHz | -61.04 | -49.03 | -11.79 |
| | | | 18 GHz to 40 GHz | -66.58 | -49.03 | -17.43 |
| 2 | 3 | 5 | 30 MHz to 3.53 GHz | -56.82 | -49.03 | -7.79 |
| | | | 3.72 GHz to 6.2 GHz | -53.86 | -49.03 | -4.80 |
| | | | 6.2 GHz to 18 GHz | -59.98 | -49.03 | -10.95 |
| | | | 18 GHz to 40 GHz | -66.19 | -49.03 | -17.16 |
| | | 6 | 30 MHz to 3.53 GHz | -56.73 | -49.03 | -7.70 |
| | | | 3.72 GHz to 6.2 GHz | -54.29 | -49.03 | -5.04 |
| | | | 6.2 GHz to 18 GHz | -61.28 | -49.03 | -11.51 |
| | | | 18 GHz to 40 GHz | -66.81 | -49.03 | -17.74 |
| | 4 | 7 | 30 MHz to 3.53 GHz | -58.54 | -49.03 | -8.52 |
| | | | 3.72 GHz to 6.2 GHz | -53.33 | -49.03 | -4.30 |
| | | | 6.2 GHz to 18 GHz | -59.71 | -49.03 | -10.68 |
| | | | 18 GHz to 40 GHz | -66.19 | -49.03 | -17.16 |
| | | 8 | 30 MHz to 3.53 GHz | -57.95 | -49.03 | -8.92 |
| | | | 3.72 GHz to 6.2 GHz | -51.66 | -49.03 | -2.63 |
| | | | 6.2 GHz to 18 GHz | -57.43 | -49.03 | -8.20 |
| | | | 18 GHz to 40 GHz | -66.26 | -49.03 | -17.05 |

Table 8-221. Conducted Spurious Emission Summary Data (n48_1C_10M_Mid Channel_8T)

| | | | | | |
|--|---|---------------------------------------|--|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | | Page 206 of 289 |

| Sector | Zone | Port | Measurement Range | Level (dBm) | Limit (dBm) | Worst Margin (dB) |
|--------|------|------|---------------------|-------------|-------------|-------------------|
| | | | | QPSK | | |
| 1 | 1 | 1 | 30 MHz to 3.53 GHz | -58.13 | -49.03 | -9.10 |
| | | | 3.72 GHz to 6.2 GHz | -54.52 | -49.03 | -4.28 |
| | | | 6.2 GHz to 18 GHz | -61.48 | -49.03 | -12.45 |
| | | | 18 GHz to 40 GHz | -66.66 | -49.03 | -17.63 |
| | | 2 | 30 MHz to 3.53 GHz | -59.13 | -49.03 | -10.10 |
| | | | 3.72 GHz to 6.2 GHz | -53.66 | -49.03 | -3.90 |
| | | | 6.2 GHz to 18 GHz | -60.66 | -49.03 | -11.39 |
| | | | 18 GHz to 40 GHz | -66.77 | -49.03 | -17.28 |
| | 2 | 3 | 30 MHz to 3.53 GHz | -58.83 | -49.03 | -9.59 |
| | | | 3.72 GHz to 6.2 GHz | -51.84 | -49.03 | -2.81 |
| | | | 6.2 GHz to 18 GHz | -59.76 | -49.03 | -10.73 |
| | | | 18 GHz to 40 GHz | -66.76 | -49.03 | -17.73 |
| | | 4 | 30 MHz to 3.53 GHz | -57.38 | -49.03 | -8.35 |
| | | | 3.72 GHz to 6.2 GHz | -53.21 | -49.03 | -4.18 |
| | | | 6.2 GHz to 18 GHz | -60.08 | -49.03 | -11.05 |
| | | | 18 GHz to 40 GHz | -66.85 | -49.03 | -17.82 |
| 2 | 3 | 5 | 30 MHz to 3.53 GHz | -58.64 | -49.03 | -9.61 |
| | | | 3.72 GHz to 6.2 GHz | -53.28 | -49.03 | -4.25 |
| | | | 6.2 GHz to 18 GHz | -59.10 | -49.03 | -10.07 |
| | | | 18 GHz to 40 GHz | -66.74 | -49.03 | -17.48 |
| | | 6 | 30 MHz to 3.53 GHz | -57.16 | -49.03 | -7.82 |
| | | | 3.72 GHz to 6.2 GHz | -53.91 | -49.03 | -4.88 |
| | | | 6.2 GHz to 18 GHz | -61.26 | -49.03 | -11.96 |
| | | | 18 GHz to 40 GHz | -66.01 | -49.03 | -16.98 |
| | 4 | 7 | 30 MHz to 3.53 GHz | -56.63 | -49.03 | -7.60 |
| | | | 3.72 GHz to 6.2 GHz | -52.80 | -49.03 | -3.77 |
| | | | 6.2 GHz to 18 GHz | -59.78 | -49.03 | -10.75 |
| | | | 18 GHz to 40 GHz | -67.09 | -49.03 | -18.02 |
| | | 8 | 30 MHz to 3.53 GHz | -57.99 | -49.03 | -8.96 |
| | | | 3.72 GHz to 6.2 GHz | -52.86 | -49.03 | -3.83 |
| | | | 6.2 GHz to 18 GHz | -57.09 | -49.03 | -8.06 |
| | | | 18 GHz to 40 GHz | -66.55 | -49.03 | -17.52 |

Table 8-222. Conducted Spurious Emission Summary Data (n48_1C_10M_High Channel_8T)

| | | | | |
|---|---|---|---|--|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | Page 207 of 289 | |


| Sector | Zone | Port | Measurement Range | Level (dBm) | Limit (dBm) | Worst Margin (dB) |
|--------|------|------|---------------------|-------------|-------------|-------------------|
| | | | | QPSK | | |
| 1 | 1 | 1 | 30 MHz to 3.53 GHz | -58.59 | -49.03 | -9.56 |
| | | | 3.72 GHz to 6.2 GHz | -53.58 | -49.03 | -4.55 |
| | | | 6.2 GHz to 18 GHz | -61.91 | -49.03 | -12.88 |
| | | | 18 GHz to 40 GHz | -66.87 | -49.03 | -17.84 |
| | | 2 | 30 MHz to 3.53 GHz | -58.12 | -49.03 | -9.09 |
| | | | 3.72 GHz to 6.2 GHz | -53.95 | -49.03 | -4.92 |
| | | | 6.2 GHz to 18 GHz | -61.55 | -49.03 | -12.52 |
| | | | 18 GHz to 40 GHz | -65.61 | -49.03 | -16.58 |
| | 2 | 3 | 30 MHz to 3.53 GHz | -58.50 | -49.03 | -9.47 |
| | | | 3.72 GHz to 6.2 GHz | -53.44 | -49.03 | -4.41 |
| | | | 6.2 GHz to 18 GHz | -60.97 | -49.03 | -11.94 |
| | | | 18 GHz to 40 GHz | -66.31 | -49.03 | -17.28 |
| | | 4 | 30 MHz to 3.53 GHz | -55.57 | -49.03 | -6.54 |
| | | | 3.72 GHz to 6.2 GHz | -53.45 | -49.03 | -4.42 |
| | | | 6.2 GHz to 18 GHz | -61.27 | -49.03 | -12.24 |
| | | | 18 GHz to 40 GHz | -66.93 | -49.03 | -17.90 |
| 2 | 3 | 5 | 30 MHz to 3.53 GHz | -58.51 | -49.03 | -9.48 |
| | | | 3.72 GHz to 6.2 GHz | -52.60 | -49.03 | -3.57 |
| | | | 6.2 GHz to 18 GHz | -60.38 | -49.03 | -11.35 |
| | | | 18 GHz to 40 GHz | -66.54 | -49.03 | -17.51 |
| | | 6 | 30 MHz to 3.53 GHz | -56.68 | -49.03 | -7.65 |
| | | | 3.72 GHz to 6.2 GHz | -54.27 | -49.03 | -5.24 |
| | | | 6.2 GHz to 18 GHz | -61.52 | -49.03 | -12.49 |
| | | | 18 GHz to 40 GHz | -65.77 | -49.03 | -16.74 |
| | 4 | 7 | 30 MHz to 3.53 GHz | -58.31 | -49.03 | -9.28 |
| | | | 3.72 GHz to 6.2 GHz | -53.75 | -49.03 | -4.72 |
| | | | 6.2 GHz to 18 GHz | -60.79 | -49.03 | -11.76 |
| | | | 18 GHz to 40 GHz | -66.70 | -49.03 | -17.67 |
| | | 8 | 30 MHz to 3.53 GHz | -57.92 | -49.03 | -8.89 |
| | | | 3.72 GHz to 6.2 GHz | -53.23 | -49.03 | -4.20 |
| | | | 6.2 GHz to 18 GHz | -58.16 | -49.03 | -9.13 |
| | | | 18 GHz to 40 GHz | -66.76 | -49.03 | -17.73 |

Table 8-223. Conducted Spurious Emission Summary Data (n48_2C_40M+40M_Low Channel_8T)

| | | | | | |
|---|---|---|--|---|--|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 208 of 289 | |

| Sector | Zone | Port | Measurement Range | Level (dBm) | Limit (dBm) | Worst Margin (dB) |
|--------|------|------|---------------------|-------------|-------------|-------------------|
| | | | | QPSK | | |
| 1 | 1 | 1 | 30 MHz to 3.53 GHz | -58.63 | -49.03 | -9.60 |
| | | | 3.72 GHz to 6.2 GHz | -54.11 | -49.03 | -5.08 |
| | | | 6.2 GHz to 18 GHz | -61.59 | -49.03 | -12.56 |
| | | | 18 GHz to 40 GHz | -66.59 | -49.03 | -17.56 |
| | | 2 | 30 MHz to 3.53 GHz | -58.76 | -49.03 | -9.73 |
| | | | 3.72 GHz to 6.2 GHz | -53.72 | -49.03 | -4.69 |
| | | | 6.2 GHz to 18 GHz | -61.92 | -49.03 | -12.89 |
| | | | 18 GHz to 40 GHz | -66.93 | -49.03 | -17.90 |
| | 2 | 3 | 30 MHz to 3.53 GHz | -58.44 | -49.03 | -9.41 |
| | | | 3.72 GHz to 6.2 GHz | -52.66 | -49.03 | -3.63 |
| | | | 6.2 GHz to 18 GHz | -61.26 | -49.03 | -12.23 |
| | | | 18 GHz to 40 GHz | -66.06 | -49.03 | -17.03 |
| | | 4 | 30 MHz to 3.53 GHz | -57.03 | -49.03 | -8.00 |
| | | | 3.72 GHz to 6.2 GHz | -52.88 | -49.03 | -3.85 |
| | | | 6.2 GHz to 18 GHz | -60.91 | -49.03 | -11.88 |
| | | | 18 GHz to 40 GHz | -66.39 | -49.03 | -17.36 |
| 2 | 3 | 5 | 30 MHz to 3.53 GHz | -57.85 | -49.03 | -8.82 |
| | | | 3.72 GHz to 6.2 GHz | -52.77 | -49.03 | -3.74 |
| | | | 6.2 GHz to 18 GHz | -60.79 | -49.03 | -11.76 |
| | | | 18 GHz to 40 GHz | -66.71 | -49.03 | -17.68 |
| | | 6 | 30 MHz to 3.53 GHz | -56.59 | -49.03 | -7.56 |
| | | | 3.72 GHz to 6.2 GHz | -53.82 | -49.03 | -4.79 |
| | | | 6.2 GHz to 18 GHz | -61.49 | -49.03 | -12.46 |
| | | | 18 GHz to 40 GHz | -67.10 | -49.03 | -18.07 |
| | 4 | 7 | 30 MHz to 3.53 GHz | -58.03 | -49.03 | -9.00 |
| | | | 3.72 GHz to 6.2 GHz | -53.48 | -49.03 | -4.45 |
| | | | 6.2 GHz to 18 GHz | -60.28 | -49.03 | -11.25 |
| | | | 18 GHz to 40 GHz | -66.72 | -49.03 | -17.69 |
| | | 8 | 30 MHz to 3.53 GHz | -57.60 | -49.03 | -8.57 |
| | | | 3.72 GHz to 6.2 GHz | -53.10 | -49.03 | -4.07 |
| | | | 6.2 GHz to 18 GHz | -57.65 | -49.03 | -8.62 |
| | | | 18 GHz to 40 GHz | -66.20 | -49.03 | -17.17 |

Table 8-224. Conducted Spurious Emission Summary Data (n48_2C_40M+40M_Mid Channel_8T)

| | | | | |
|---|---|---|---|--|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | Page 209 of 289 | |

| Sector | Zone | Port | Measurement Range | Level (dBm) | Limit (dBm) | Worst Margin (dB) |
|--------|------|------|---------------------|-------------|-------------|-------------------|
| | | | | QPSK | | |
| 1 | 1 | 1 | 30 MHz to 3.53 GHz | -57.53 | -49.03 | -8.50 |
| | | | 3.72 GHz to 6.2 GHz | -53.94 | -49.03 | -4.91 |
| | | | 6.2 GHz to 18 GHz | -62.36 | -49.03 | -13.33 |
| | | | 18 GHz to 40 GHz | -66.80 | -49.03 | -17.77 |
| | | 2 | 30 MHz to 3.53 GHz | -58.64 | -49.03 | -9.61 |
| | | | 3.72 GHz to 6.2 GHz | -52.75 | -49.03 | -3.72 |
| | | | 6.2 GHz to 18 GHz | -60.66 | -49.03 | -11.63 |
| | | | 18 GHz to 40 GHz | -66.29 | -49.03 | -17.26 |
| | 2 | 3 | 30 MHz to 3.53 GHz | -56.75 | -49.03 | -7.72 |
| | | | 3.72 GHz to 6.2 GHz | -53.03 | -49.03 | -4.00 |
| | | | 6.2 GHz to 18 GHz | -61.18 | -49.03 | -12.15 |
| | | | 18 GHz to 40 GHz | -66.45 | -49.03 | -17.42 |
| | | 4 | 30 MHz to 3.53 GHz | -57.28 | -49.03 | -8.25 |
| | | | 3.72 GHz to 6.2 GHz | -53.64 | -49.03 | -4.61 |
| | | | 6.2 GHz to 18 GHz | -60.90 | -49.03 | -11.87 |
| | | | 18 GHz to 40 GHz | -66.84 | -49.03 | -17.81 |
| 2 | 3 | 5 | 30 MHz to 3.53 GHz | -58.39 | -49.03 | -9.36 |
| | | | 3.72 GHz to 6.2 GHz | -52.92 | -49.03 | -3.89 |
| | | | 6.2 GHz to 18 GHz | -60.91 | -49.03 | -11.88 |
| | | | 18 GHz to 40 GHz | -66.66 | -49.03 | -17.63 |
| | | 6 | 30 MHz to 3.53 GHz | -56.33 | -49.03 | -7.30 |
| | | | 3.72 GHz to 6.2 GHz | -53.66 | -49.03 | -4.63 |
| | | | 6.2 GHz to 18 GHz | -62.25 | -49.03 | -13.22 |
| | | | 18 GHz to 40 GHz | -66.44 | -49.03 | -17.41 |
| | 4 | 7 | 30 MHz to 3.53 GHz | -58.04 | -49.03 | -9.01 |
| | | | 3.72 GHz to 6.2 GHz | -53.23 | -49.03 | -4.20 |
| | | | 6.2 GHz to 18 GHz | -61.14 | -49.03 | -12.11 |
| | | | 18 GHz to 40 GHz | -66.62 | -49.03 | -17.59 |
| | | 8 | 30 MHz to 3.53 GHz | -57.85 | -49.03 | -8.82 |
| | | | 3.72 GHz to 6.2 GHz | -52.25 | -49.03 | -3.22 |
| | | | 6.2 GHz to 18 GHz | -58.13 | -49.03 | -9.10 |
| | | | 18 GHz to 40 GHz | -66.15 | -49.03 | -17.12 |

Table 8-225. Conducted Spurious Emission Summary Data (n48_2C_40M+40M_High Channel_8T)

| | | | | |
|---|---|---|---|--|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | Page 210 of 289 | |

| Sector | Zone | Port | Measurement Range | Level (dBm) | Limit (dBm) | Worst Margin (dB) |
|--------|------|------|---------------------|-------------|-------------|-------------------|
| | | | | QPSK | | |
| 1 | 1 | 1 | 30 MHz to 3.53 GHz | -59.25 | -49.03 | -10.22 |
| | | | 3.72 GHz to 6.2 GHz | -54.14 | -49.03 | -5.11 |
| | | | 6.2 GHz to 18 GHz | -61.54 | -49.03 | -12.51 |
| | | | 18 GHz to 40 GHz | -66.78 | -49.03 | -17.75 |
| | | 2 | 30 MHz to 3.53 GHz | -58.62 | -49.03 | -9.59 |
| | | | 3.72 GHz to 6.2 GHz | -52.67 | -49.03 | -3.64 |
| | | | 6.2 GHz to 18 GHz | -61.71 | -49.03 | -12.68 |
| | | | 18 GHz to 40 GHz | -66.56 | -49.03 | -17.53 |
| | 2 | 3 | 30 MHz to 3.53 GHz | -58.61 | -49.03 | -9.58 |
| | | | 3.72 GHz to 6.2 GHz | -53.90 | -49.03 | -4.87 |
| | | | 6.2 GHz to 18 GHz | -60.85 | -49.03 | -11.82 |
| | | | 18 GHz to 40 GHz | -66.88 | -49.03 | -17.85 |
| | | 4 | 30 MHz to 3.53 GHz | -57.43 | -49.03 | -8.40 |
| | | | 3.72 GHz to 6.2 GHz | -53.52 | -49.03 | -4.49 |
| | | | 6.2 GHz to 18 GHz | -61.46 | -49.03 | -12.43 |
| | | | 18 GHz to 40 GHz | -66.59 | -49.03 | -17.56 |
| 2 | 3 | 5 | 30 MHz to 3.53 GHz | -58.25 | -49.03 | -9.22 |
| | | | 3.72 GHz to 6.2 GHz | -53.72 | -49.03 | -4.69 |
| | | | 6.2 GHz to 18 GHz | -60.58 | -49.03 | -11.55 |
| | | | 18 GHz to 40 GHz | -66.31 | -49.03 | -17.28 |
| | | 6 | 30 MHz to 3.53 GHz | -56.68 | -49.03 | -7.65 |
| | | | 3.72 GHz to 6.2 GHz | -53.95 | -49.03 | -4.92 |
| | | | 6.2 GHz to 18 GHz | -60.90 | -49.03 | -11.87 |
| | | | 18 GHz to 40 GHz | -64.63 | -49.03 | -15.60 |
| | 4 | 7 | 30 MHz to 3.53 GHz | -58.54 | -49.03 | -9.51 |
| | | | 3.72 GHz to 6.2 GHz | -54.04 | -49.03 | -5.01 |
| | | | 6.2 GHz to 18 GHz | -60.28 | -49.03 | -11.25 |
| | | | 18 GHz to 40 GHz | -65.80 | -49.03 | -16.77 |
| | | 8 | 30 MHz to 3.53 GHz | -57.09 | -49.03 | -8.06 |
| | | | 3.72 GHz to 6.2 GHz | -52.25 | -49.03 | -3.22 |
| | | | 6.2 GHz to 18 GHz | -58.25 | -49.03 | -9.22 |
| | | | 18 GHz to 40 GHz | -66.46 | -49.03 | -17.43 |

Table 8-226. Conducted Spurious Emission Summary Data (n48_2NC_40M+40M_8T)

| | | | | |
|---|---|---|---|--|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | Page 211 of 289 | |



Plot 8-248. Conducted Spurious Emission Plot
30 MHz to 3.53 GHz
(n48_1C_10M_QPSK - High Channel_2T, Port 3)



Plot 8-249. Conducted Spurious Emission Plot
3.72 GHz to 10 GHz
(n48_1C_10M_QPSK - High Channel_2T, Port 3)



Plot 8-250. Conducted Spurious Emission Plot
10 GHz to 18 GHz
(n48_1C_10M_QPSK - High Channel_2T, Port 3)



Plot 8-251. Conducted Spurious Emission Plot
18 GHz to 40 GHz
(n48_1C_10M_QPSK - High Channel_2T, Port 3)

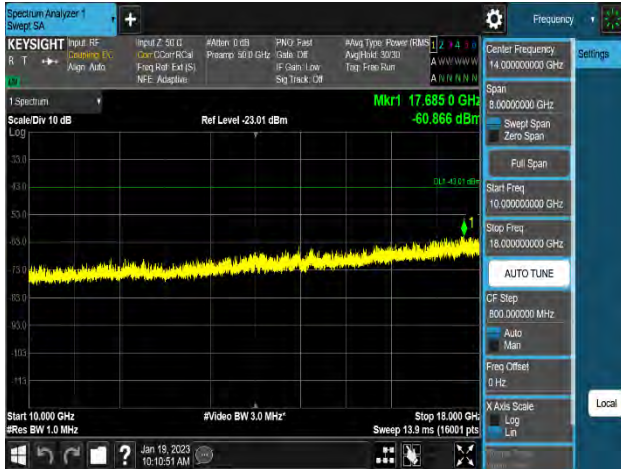


Plot 8-252. Conducted Spurious Emission Plot
30 MHz to 3.53 GHz
(n48_2C_40M+40M_256QAM - Low Channel_2T, Port 4)

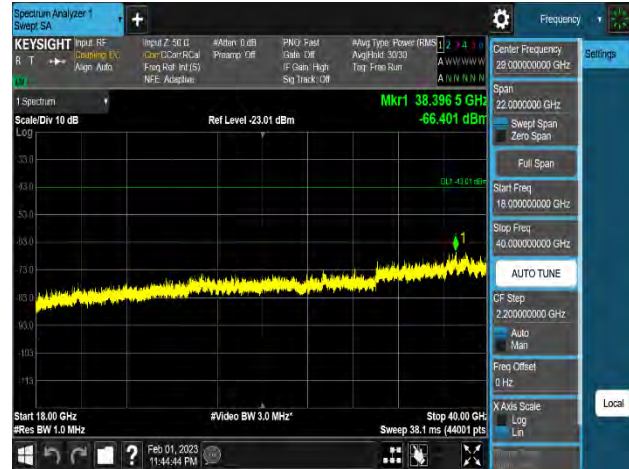


Plot 8-253. Conducted Spurious Emission Plot
3.72 GHz to 10 GHz
(n48_2C_40M+40M_256QAM - Low Channel_2T, Port 4)

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Plot 8-254. Conducted Spurious Emission Plot
10 GHz to 18 GHz
(n48_2C_40M+40M_256QAM - Low Channel_2T, Port 4)



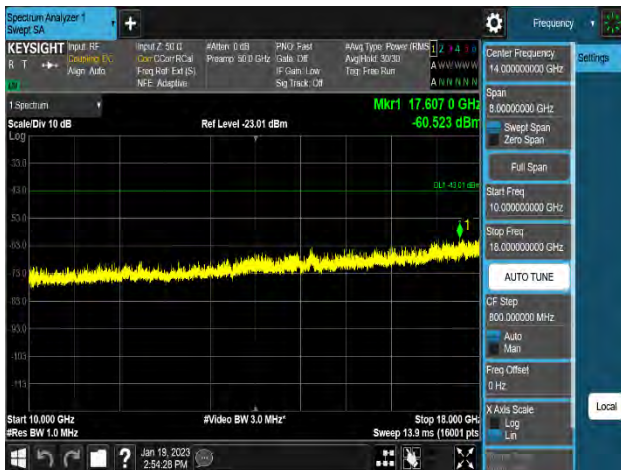
Plot 8-255. Conducted Spurious Emission Plot
18 GHz to 40 GHz
(n48_2C_40M+40M_256QAM - Low Channel_2T, Port 4)



Plot 8-256. Conducted Spurious Emission Plot
30 MHz to 3.53 GHz
(n48_2NC_40M+40M_QPSK - Mid Channel_2T, Port 3)



Plot 8-257. Conducted Spurious Emission Plot
3.72 GHz to 10 GHz
(n48_2NC_40M+40M_QPSK - Mid Channel_2T, Port 3)



Plot 8-258. Conducted Spurious Emission Plot
10 GHz to 18 GHz
(n48_2NC_40M+40M_QPSK - Mid Channel_2T, Port 3)

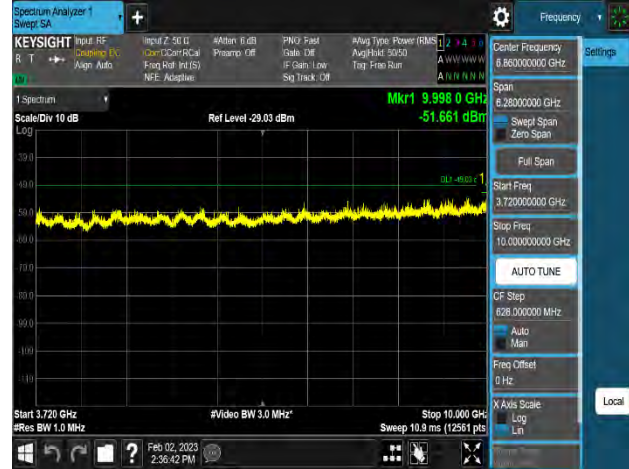


Plot 8-259. Conducted Spurious Emission Plot
18 GHz to 40 GHz
(n48_2NC_40M+40M_QPSK - Mid Channel_2T, Port 3)

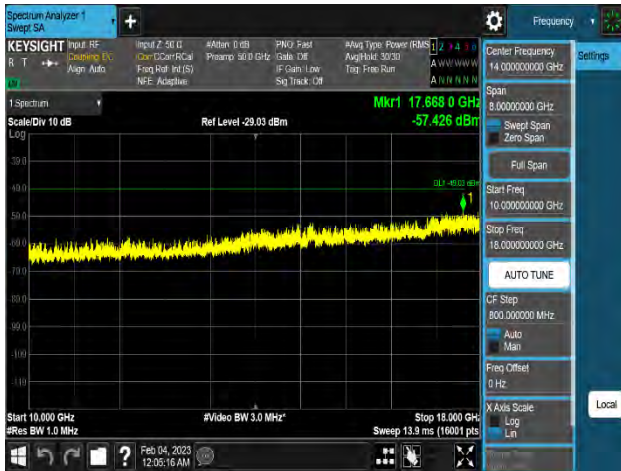
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Plot 8-260. Conducted Spurious Emission Plot
30 MHz to 3.53 GHz
(n48_1C_10M_QPSK - Mid Channel_8T, Port 8)



Plot 8-261. Conducted Spurious Emission Plot
3.72 GHz to 10 GHz
(n48_1C_10M_QPSK - Mid Channel_8T, Port 8)



Plot 8-262. Conducted Spurious Emission Plot
10 GHz to 18 GHz
(n48_1C_10M_QPSK - Mid Channel_8T, Port 8)



Plot 8-263. Conducted Spurious Emission Plot
18 GHz to 40 GHz
(n48_1C_10M_QPSK - Mid Channel_8T, Port 8)

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8.9 Radiated spurious emission

Test Overview

Radiated spurious emissions measurements are performed using the field strength method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized broadband tri-log antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas.

Test Procedure Used

ANSI C63.26 - Section 5.5.4
KDB 971168 D01 v03r01 - Section 7

Test Setting

1. Start frequency was set to 30 MHz and stop frequency was set to at least 10 * the fundamental frequency
2. RBW = 1 MHz
3. VBW \geq 3 x RBW
4. No. of sweep points \geq 2 x span / RBW
5. Detector = RMS
6. Trace mode = Max Hold (In cases where the level is within 2 dB of the limit, the final measurement is taken using triggering/gating and trace averaging.)
7. The trace was allowed to stabilize.

Limit

- Within 0 MHz to 10 MHz above and below the assigned channel \leq -13 dBm/MHz
- Greater than 10 MHz above and below the assigned channel \leq -25 dBm/MHz
- Any emission below 3530 MHz and above 3720 MHz \leq -40 dBm/MHz

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Test Setup

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

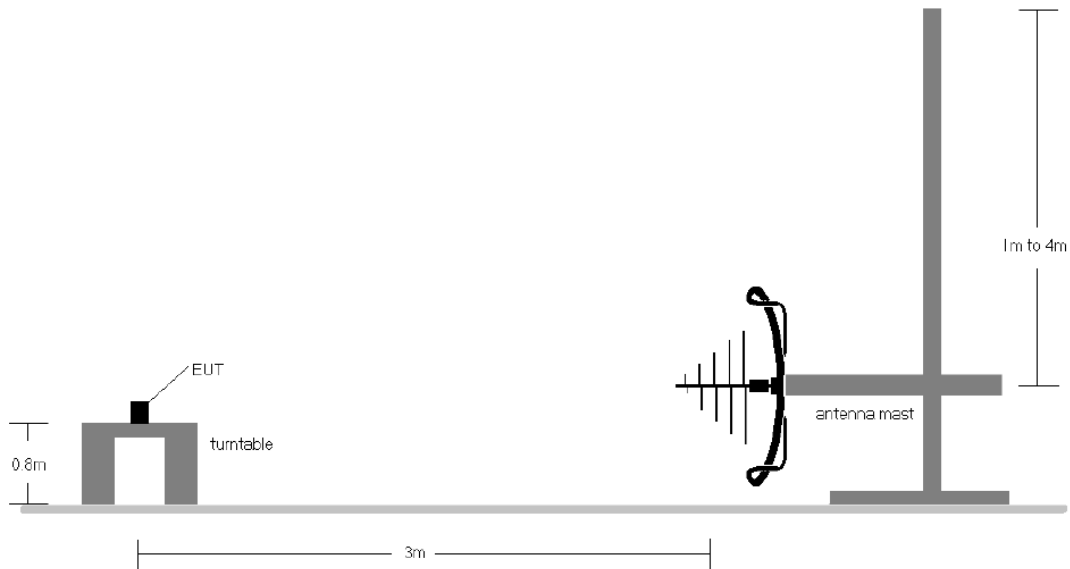


Figure 8-8. Test Instrument & Measurement Setup < 1GHz

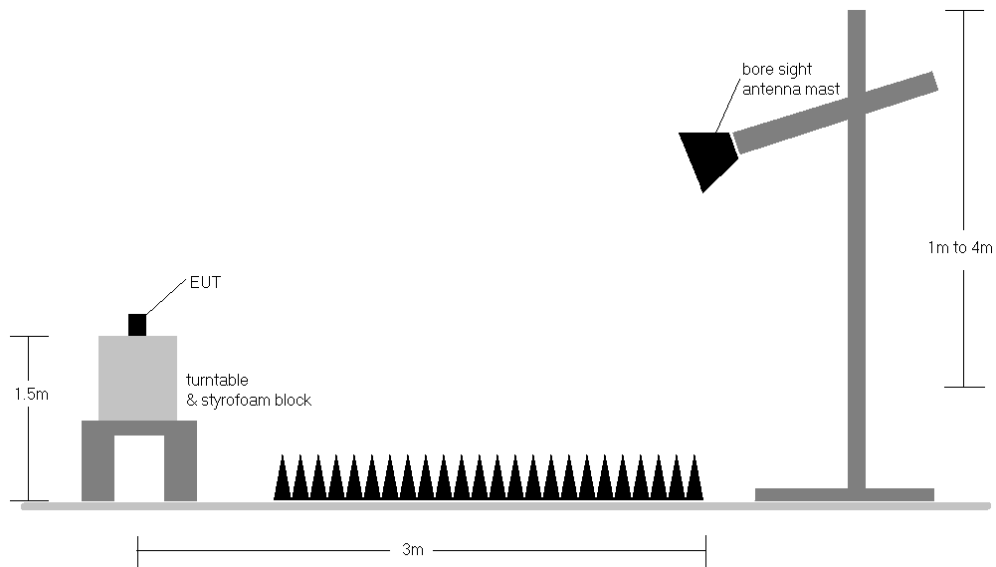


Figure 8-9. Test Instrument & Measurement Setup > 1GHz

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Test Notes

1. The average EIRP reported below is calculated per 5.2.7 of ANSI C63.26-2015 which states:

The measured e.i.r.p is converted to E-field in V/m. Then the distance correction is applied before converted back to calculated e.i.r.p.as explained in KDB 971168 D01 D01 v03r01.

Effective Isotropic Radiated Power Sample Calculation

Field Strength [dBμV/m] = Measured Value [dBm] + AFCL [dB/m] + 107
 = -81.81 dBm + 24.93 dBm + 107 = 50.12 dBμV/m


e.i.r.p. [dBm] = E[dB μV/m] + 20 log₁₀(d[m]) - 104.8
 = 50.12 + (20*log (3)) - 104.8
 = - 45.14 dBm e.i.r.p.

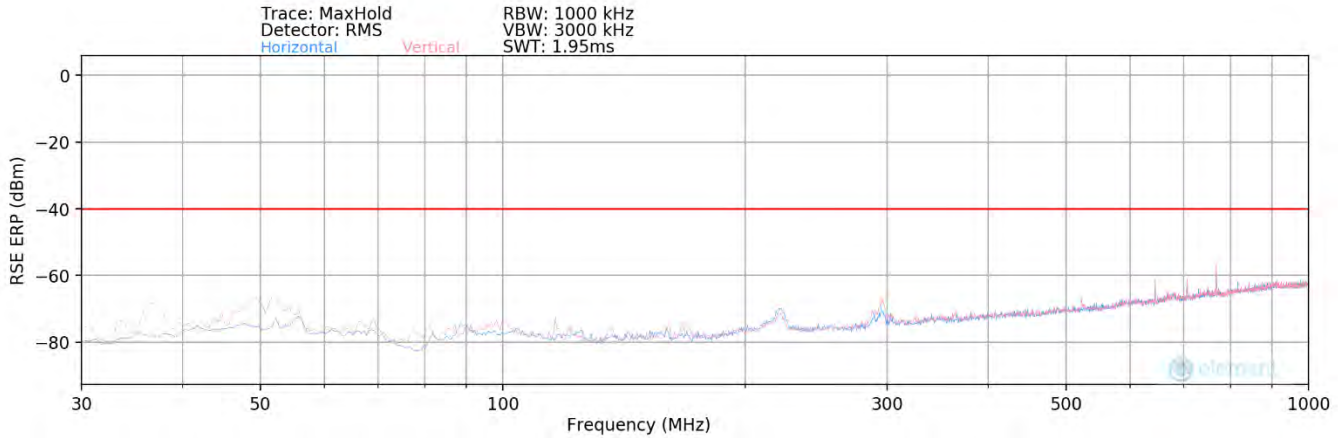
*AFCL (dB/m) contains measurement antenna factor(dB/m) and cable loss(dB) as below:

| Frequency [MHz] | Antenna Factor (dB/m) | Chamber measurement cable loss + amplifier [dB] | AFCL (dB/m) |
|-----------------|-----------------------|---|-------------|
| 770.28 | 26.77 | -26.36 | 0.41 |
| 17957.26 | 47.71 | -22.79 | 24.93 |

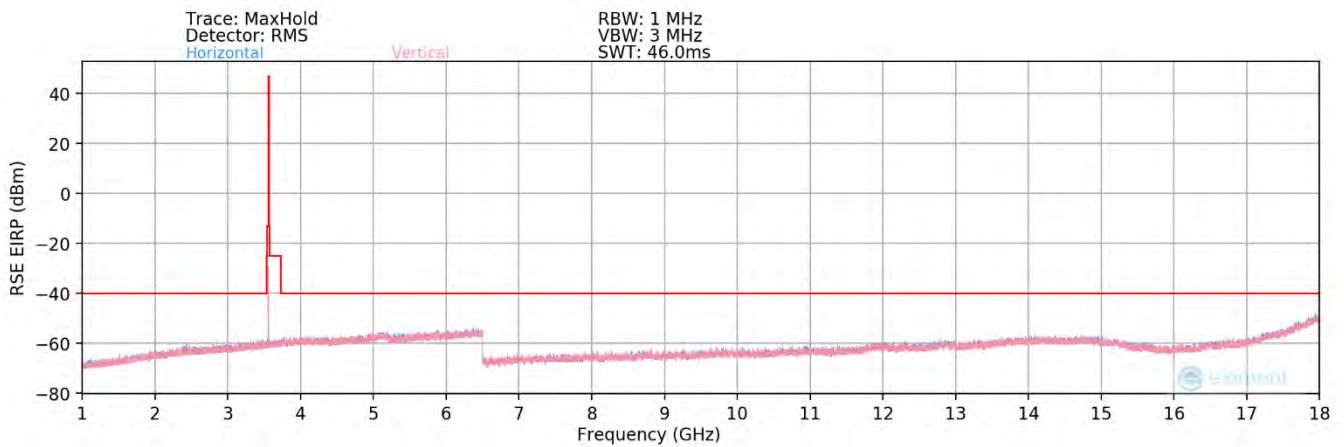
Table 8-227. Adopted AFCL value in the calculation

2. The EUT was tested in both horizontal and vertical antenna polarizations and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, channel bandwidth configurations shown in the tables below.
3. The spectrum is measured from 30 MHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
4. All emissions were measured at a 3-meter test distance.
5. Spurious emissions were measured with all EUT antennas transmitting simultaneously and all antenna ports terminated.
6. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

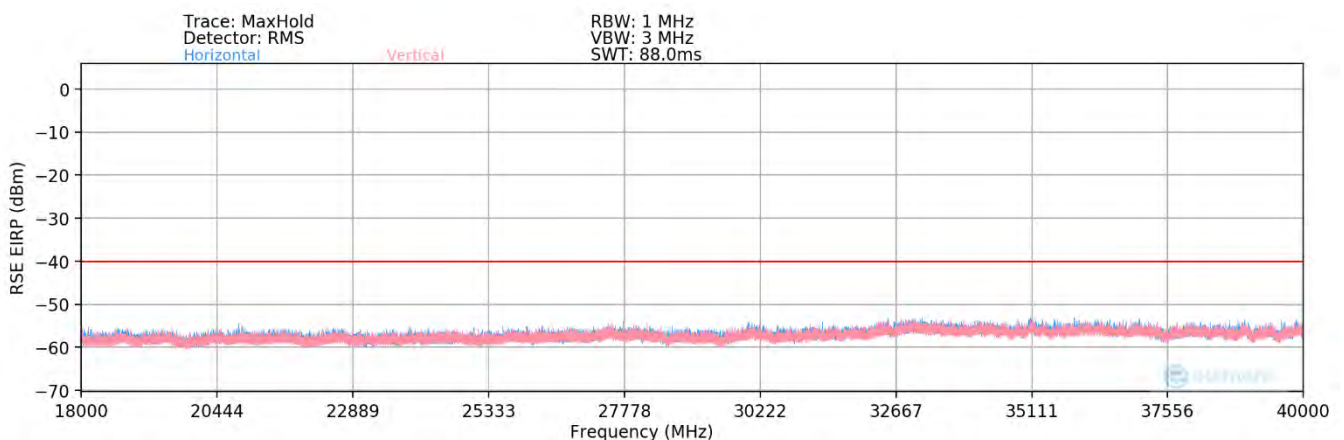
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Plot 8-264. Radiated spurious emission Plot_30 MHz to 1000 MHz (n48_1C_10M_QPSK - Low Channel) (Sector 1)

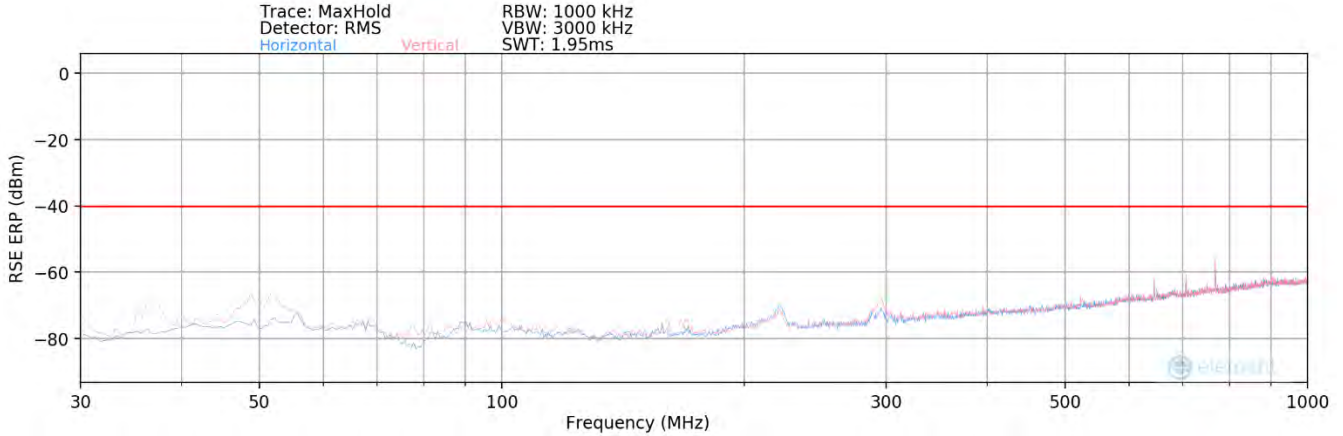


Plot 8-265. Radiated spurious emission Plot_1 GHz to 18 GHz (n48_1C_10M_QPSK - Low Channel) (Sector 1)

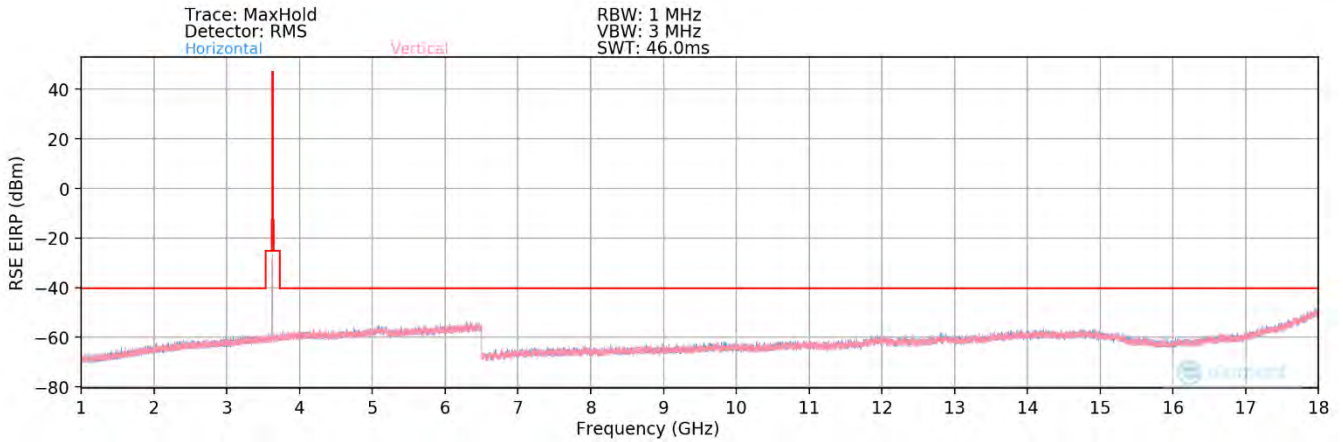


Plot 8-266. Radiated spurious emission Plot_18 GHz to 40 GHz (n48_1C_10M_QPSK - Mid Channel) (Sector 1)

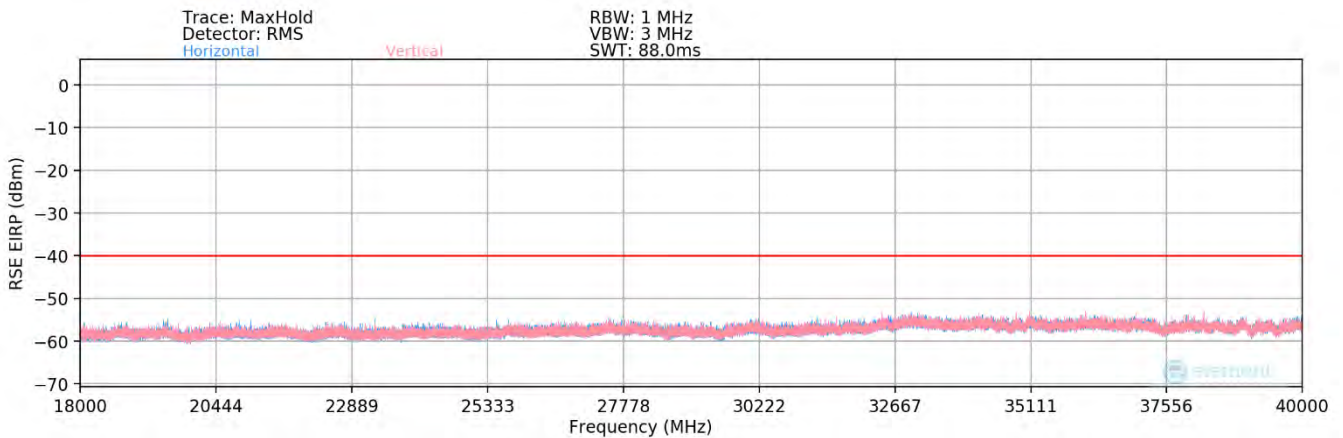
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Plot 8-267. Radiated spurious emission Plot_30 MHz to 1000 MHz (n48_1C_10M_QPSK - Mid Channel) (Sector 1)

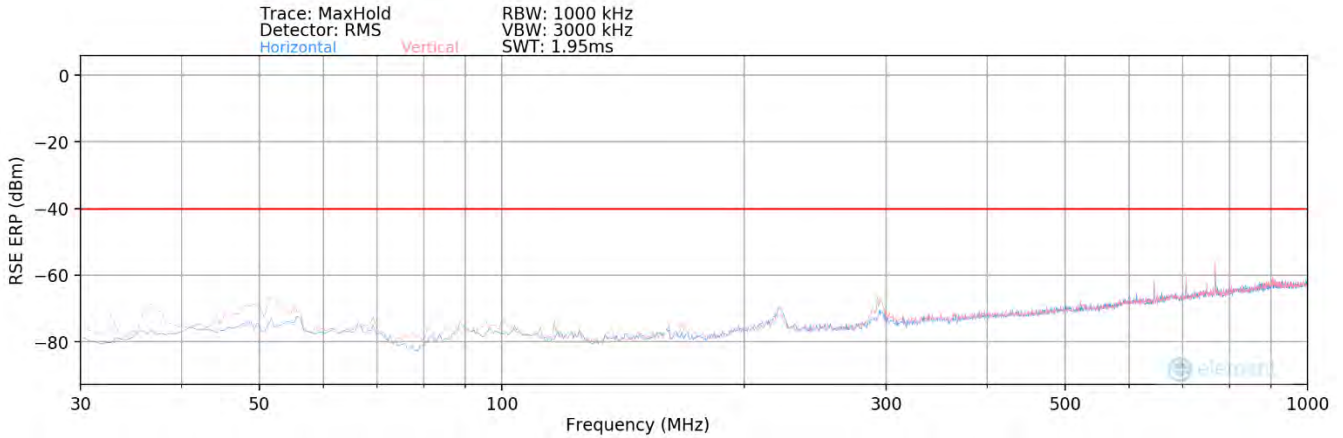


Plot 8-268. Radiated spurious emission Plot_1 GHz to 18 GHz (n48_1C_10M_QPSK - Mid Channel) (Sector 1)

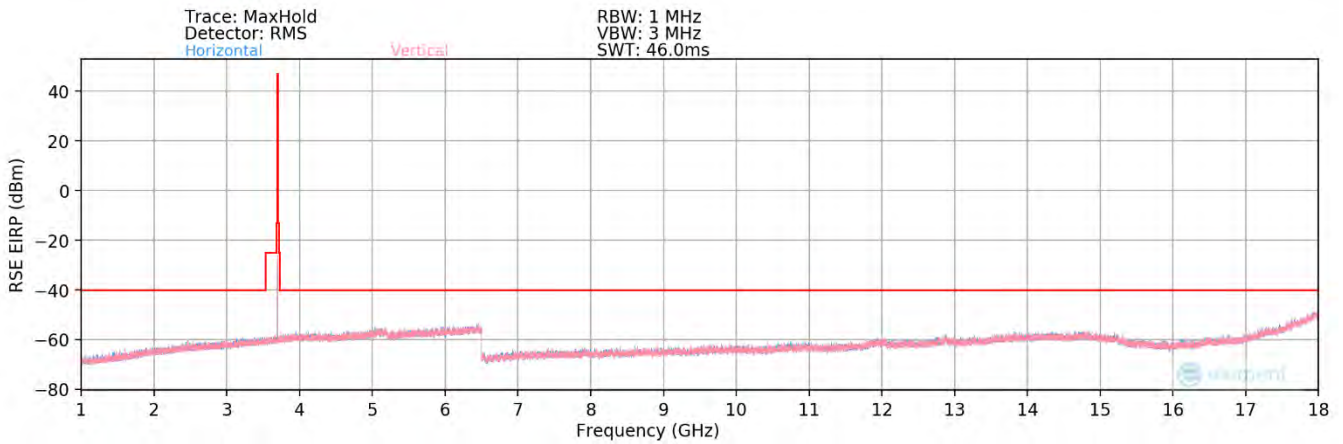


Plot 8-269. Radiated spurious emission Plot_18 GHz to 40 GHz (n48_1C_10M_QPSK - Mid Channel) (Sector 1)

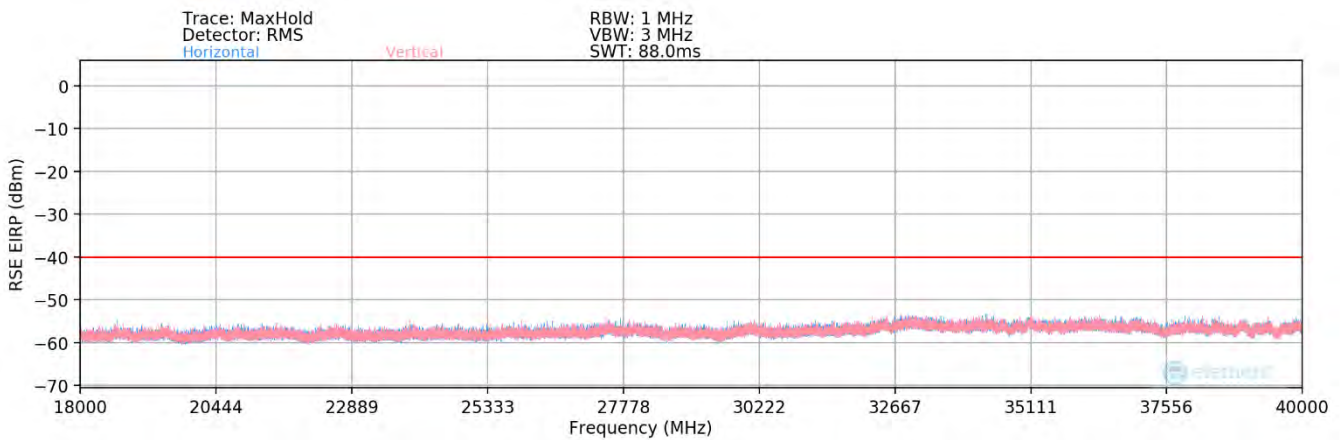
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**Plot 8-270. Radiated spurious emission Plot_30 MHz to 1000 MHz
(n48_1C_10M_QPSK - High Channel_4T) (Sector 1)**

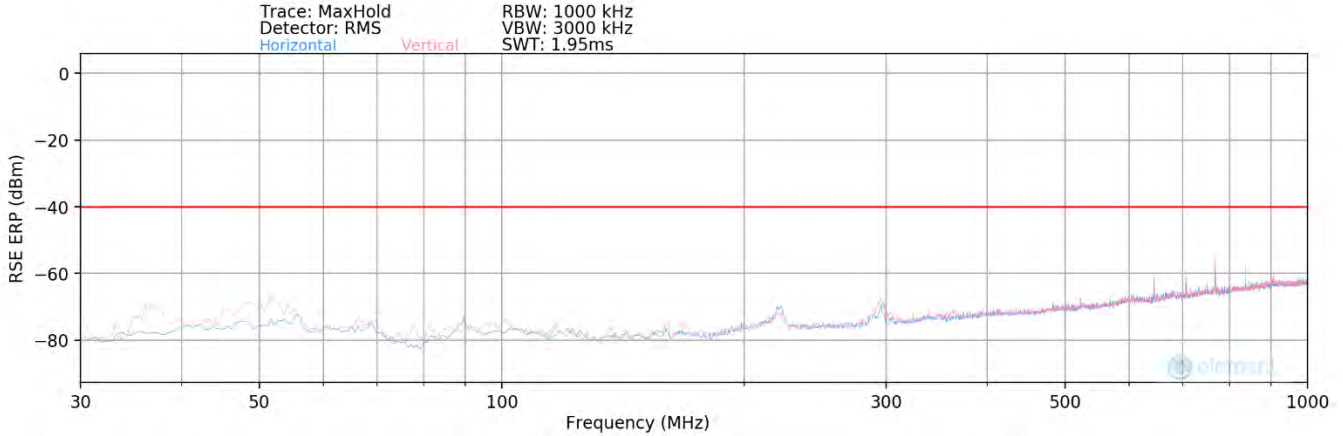


**Plot 8-271. Radiated spurious emission Plot_1 GHz to 18 GHz
(n48_1C_10M_QPSK - High Channel_4T) (Sector 1)**

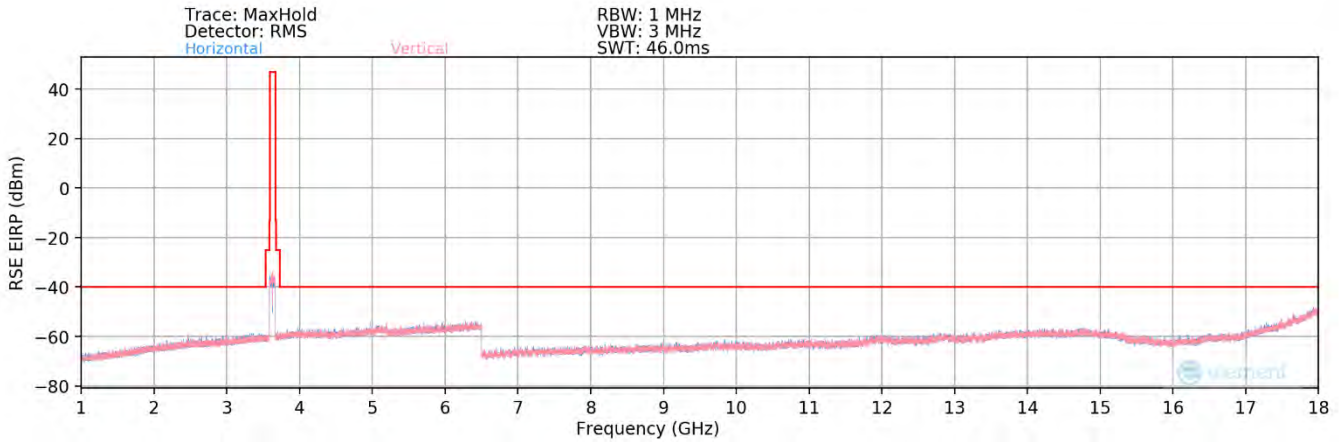


**Plot 8-272. Radiated spurious emission Plot_18 GHz to 40 GHz
(n48_1C_10M_QPSK - High Channel_4T) (Sector 1)**

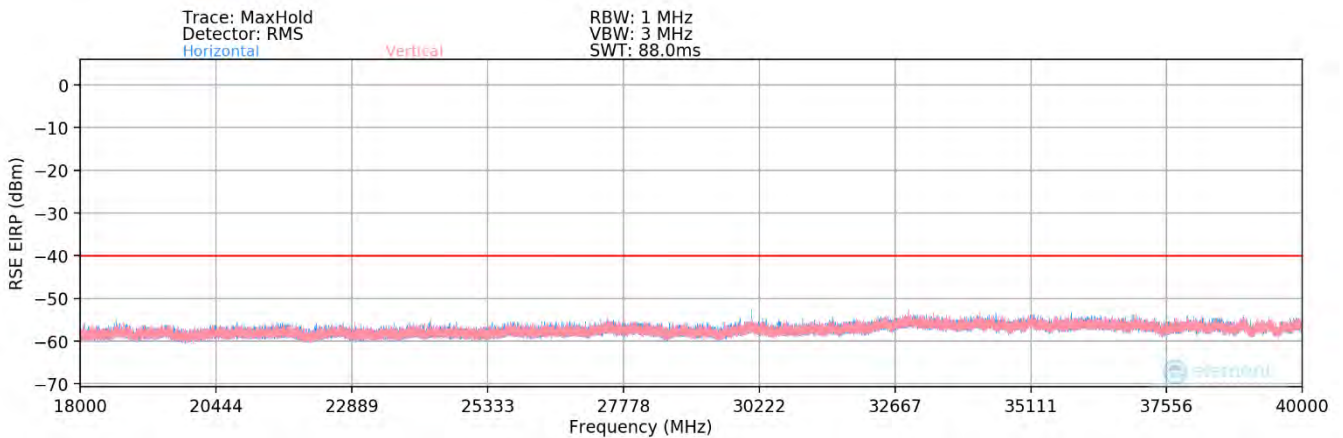
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**Plot 8-273. Radiated spurious emission Plot_30 MHz to 1000 MHz
(n48_2C_40M+40M_QPSK - Mid Channel_4T) (Sector 1)**

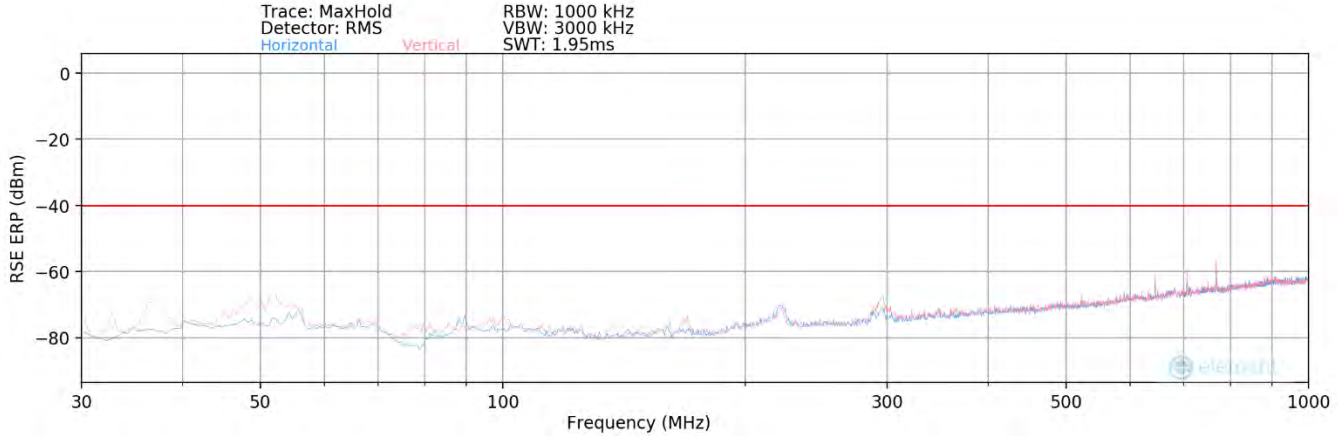


**Plot 8-274. Radiated spurious emission Plot_1 GHz to 18 GHz
(n48_2C_40M+40M_QPSK - Mid Channel_4T) (Sector 1)**

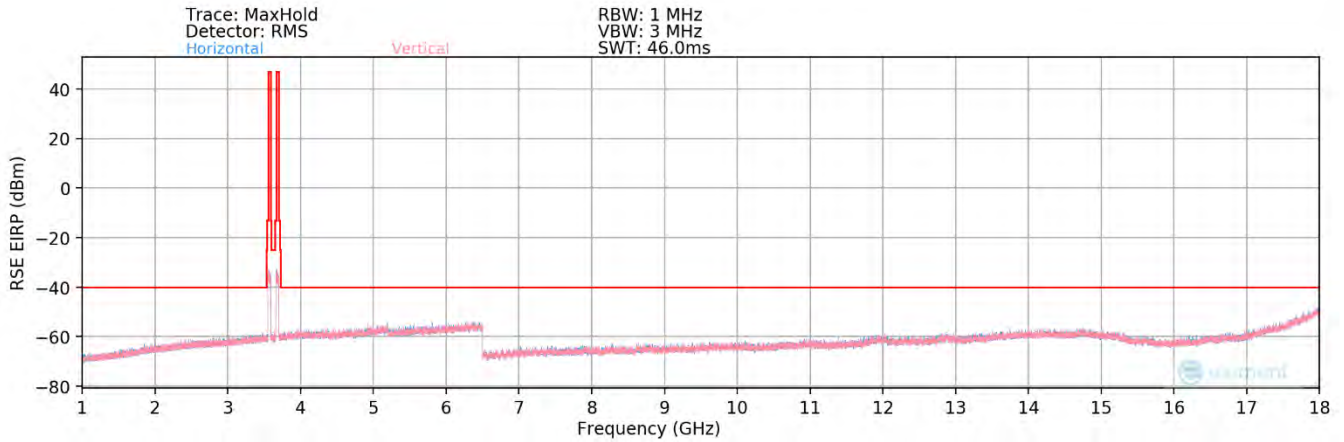


**Plot 8-275. Radiated spurious emission Plot_18 GHz to 40 GHz
(n48_2C_40M+40M_QPSK - Mid Channel_4T) (Sector 1)**

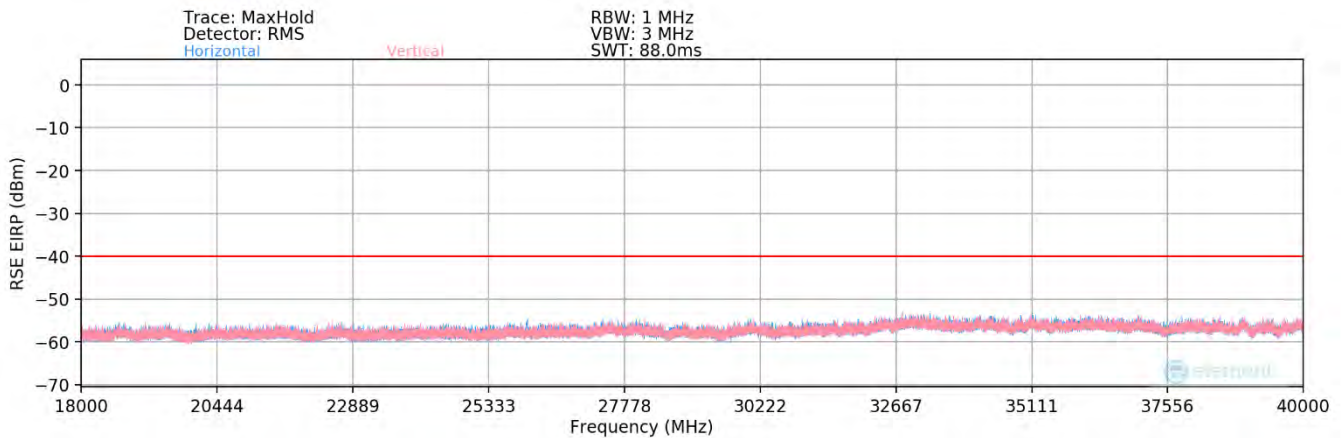
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**Plot 8-276. Radiated spurious emission Plot_30 MHz to 1000 MHz
(n48_2C_40M+40M_Non-Contiguous_QPSK - Mid Channel_4T) (Sector 1)**

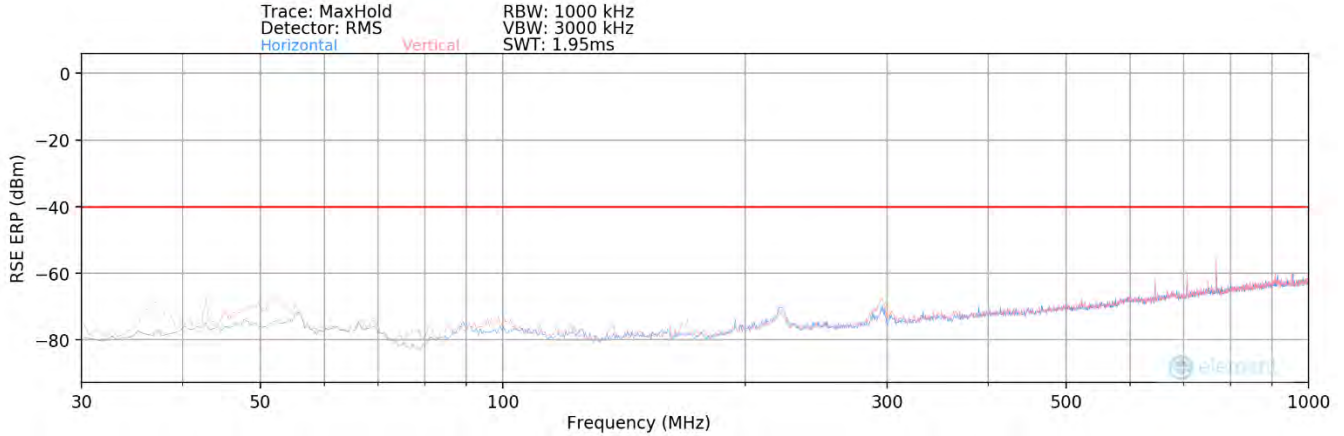


**Plot 8-277. Radiated spurious emission Plot_1 GHz to 18 GHz
(n48_2C_40M+40M_Non-Contiguous_QPSK - Mid Channel_4T) (Sector 1)**

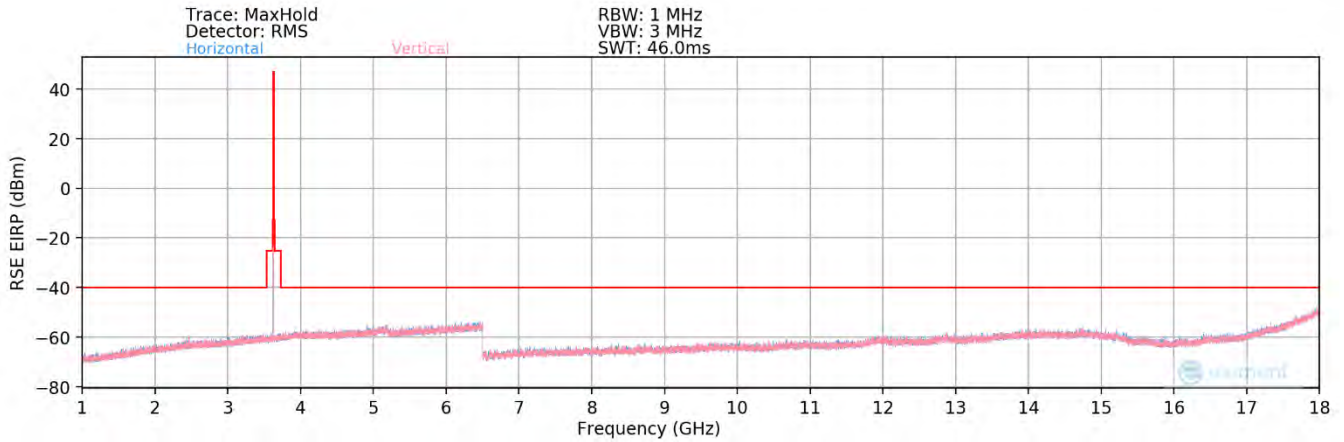


**Plot 8-278. Radiated spurious emission Plot_18 GHz to 40 GHz
(n48_2C_40M+40M_Non-Contiguous_QPSK - Mid Channel_4T) (Sector 1)**

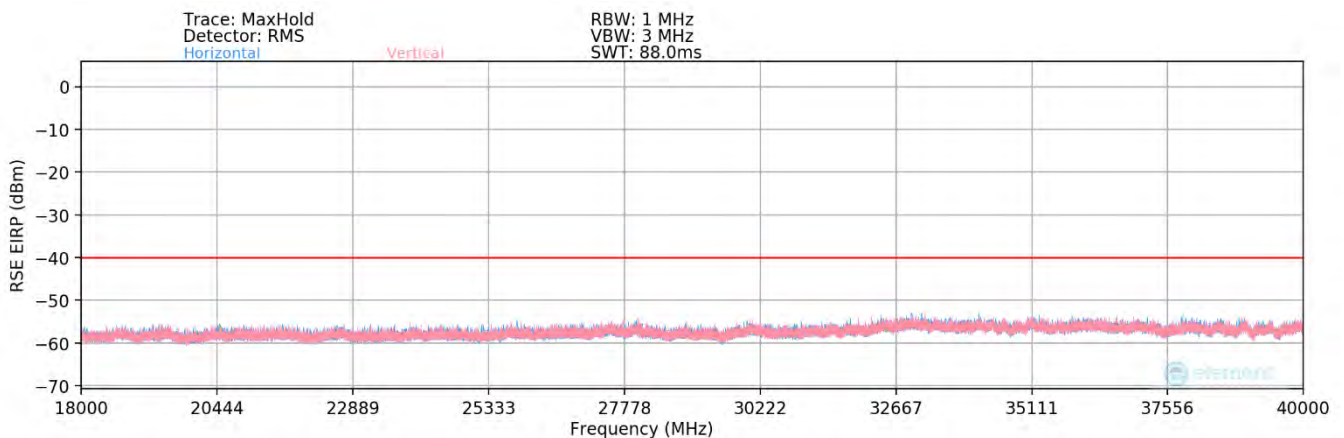
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**Plot 8-279. Radiated spurious emission Plot_30 MHz to 1000 MHz
(n48_1C_10M_QPSK - Mid Channel_4T) (Sector 2)**

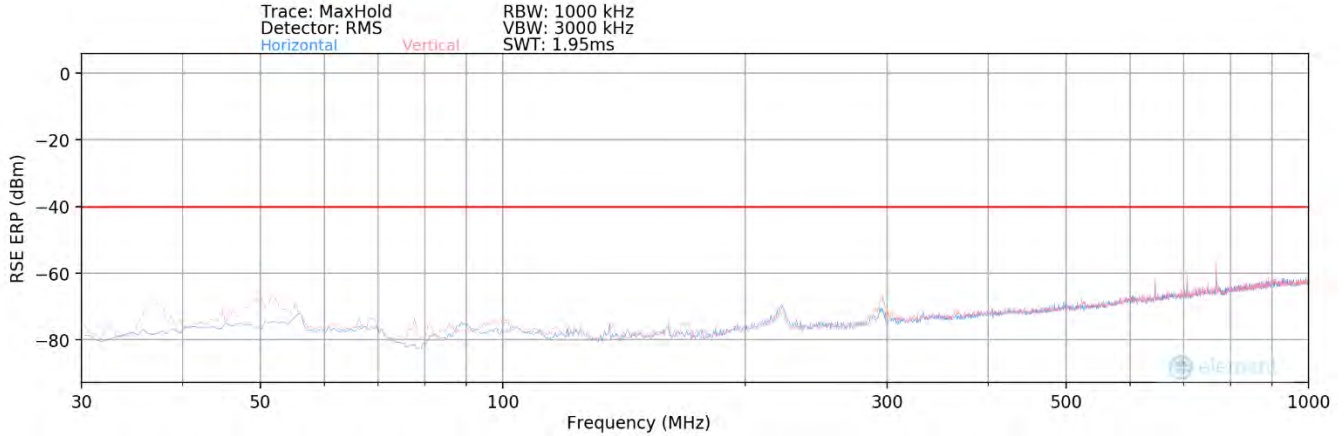


**Plot 8-280. Radiated spurious emission Plot_1 GHz to 18 GHz
(n48_1C_10M_QPSK - Mid Channel_4T) (Sector 2)**

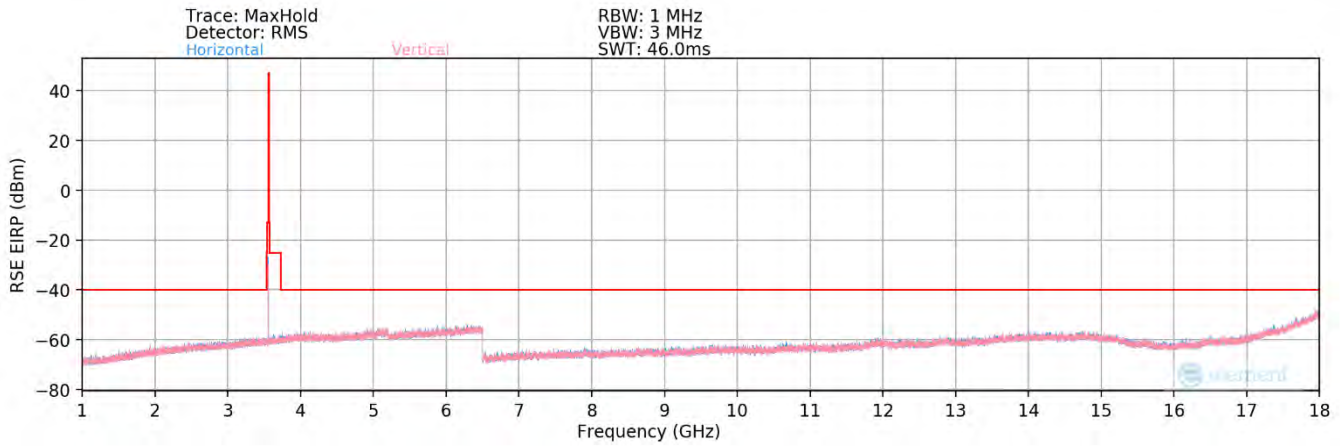


**Plot 8-281. Radiated spurious emission Plot_18 GHz to 40 GHz
(n48_1C_10M_QPSK - Mid Channel_4T) (Sector 2)**

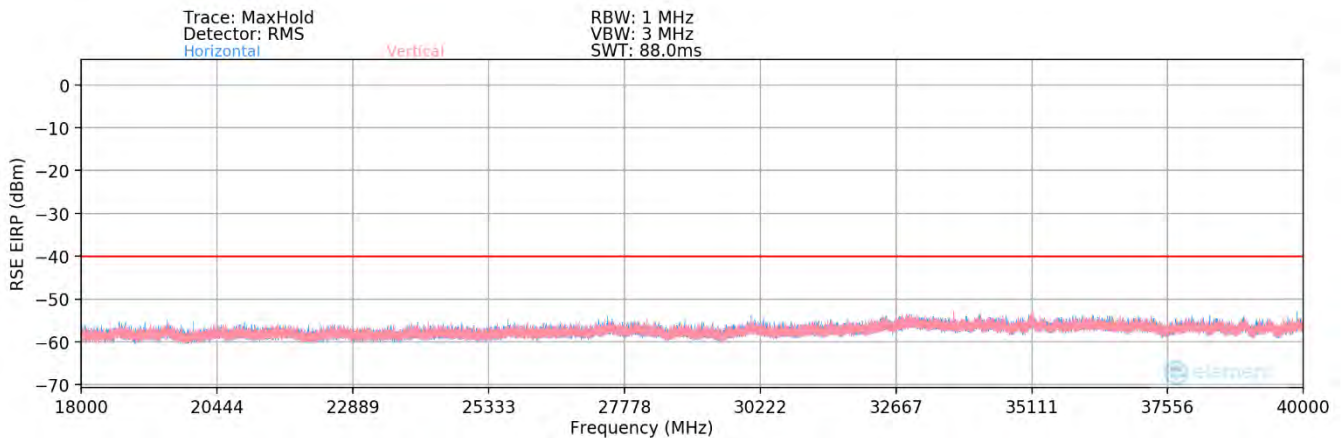
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**Plot 8-282. Radiated spurious emission Plot_30 MHz to 1000 MHz
(n48_1C_10M_QPSK - Low Channel_8T)**

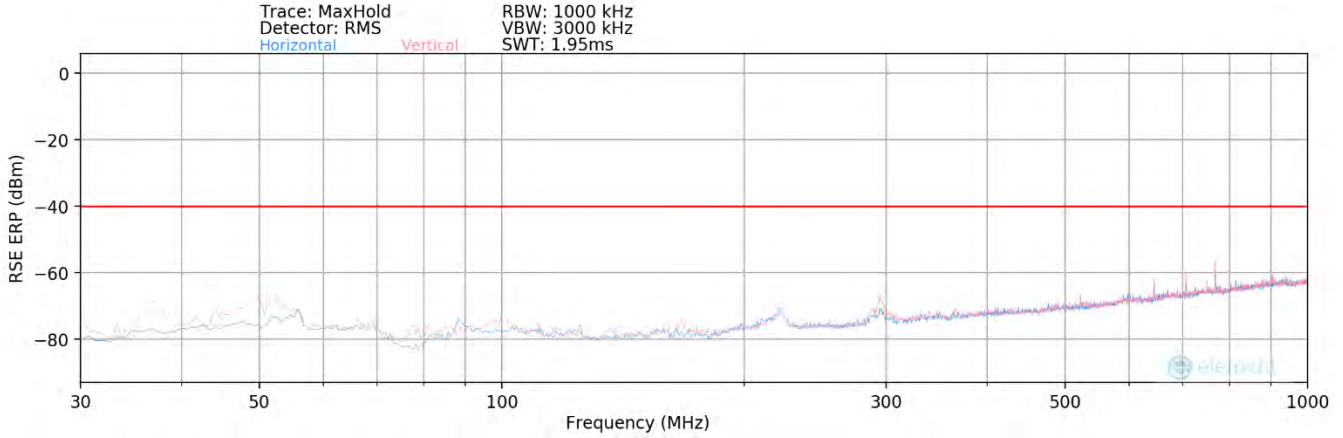


**Plot 8-283. Radiated spurious emission Plot_1 GHz to 18 GHz
(n48_1C_10M_QPSK - Low Channel_8T)**

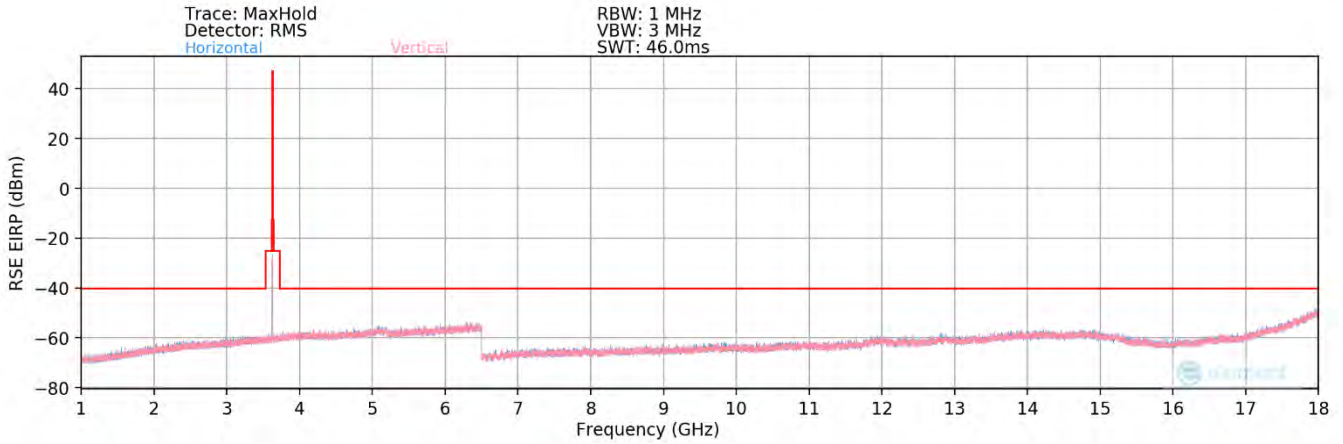


**Plot 8-284. Radiated spurious emission Plot_18 GHz to 40 GHz
(n48_1C_10M_QPSK - Low Channel_8T)**

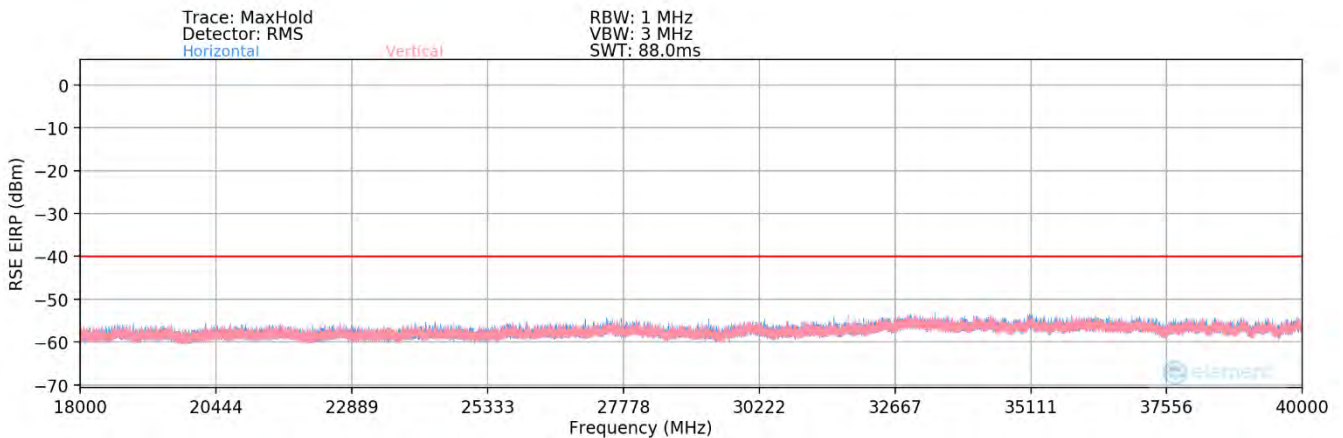
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**Plot 8-285. Radiated spurious emission Plot_30 MHz to 1000 MHz
(n48_1C_10M_QPSK - Mid Channel_8T)**

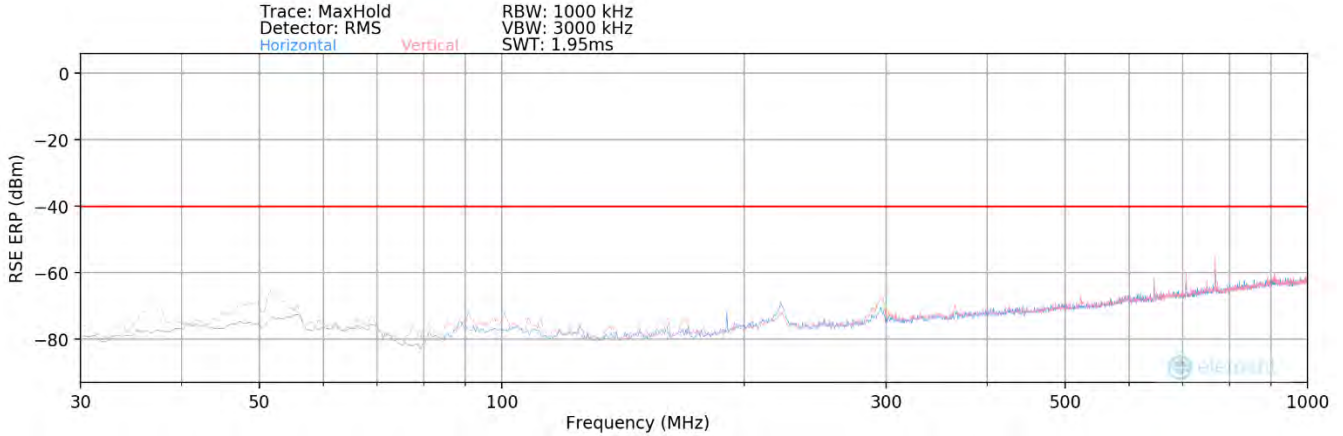


**Plot 8-286. Radiated spurious emission Plot_1 GHz to 18 GHz
(n48_1C_10M_QPSK - Mid Channel_8T)**

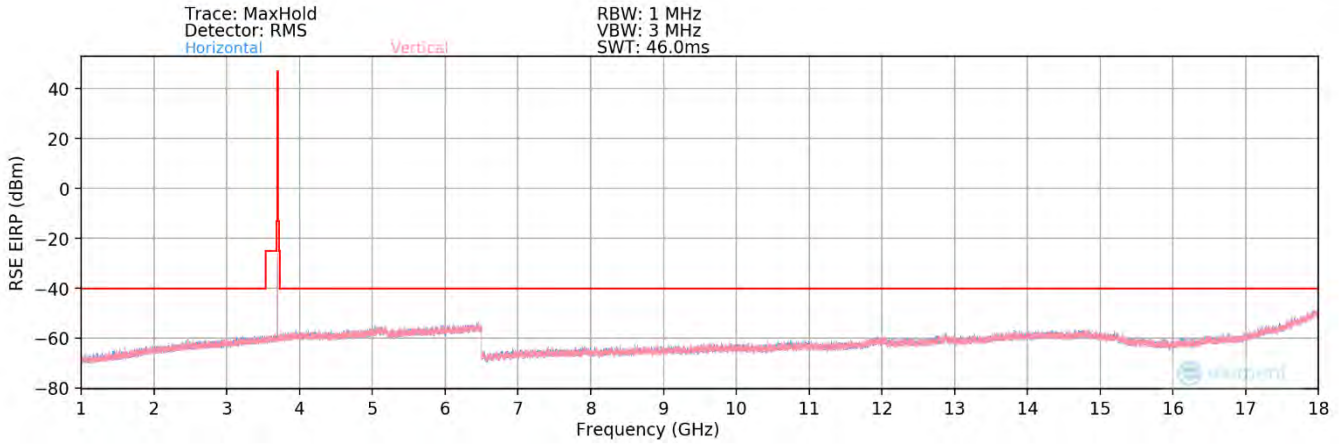


**Plot 8-287. Radiated spurious emission Plot_18 GHz to 40 GHz
(n48_1C_10M_QPSK - Mid Channel_8T)**

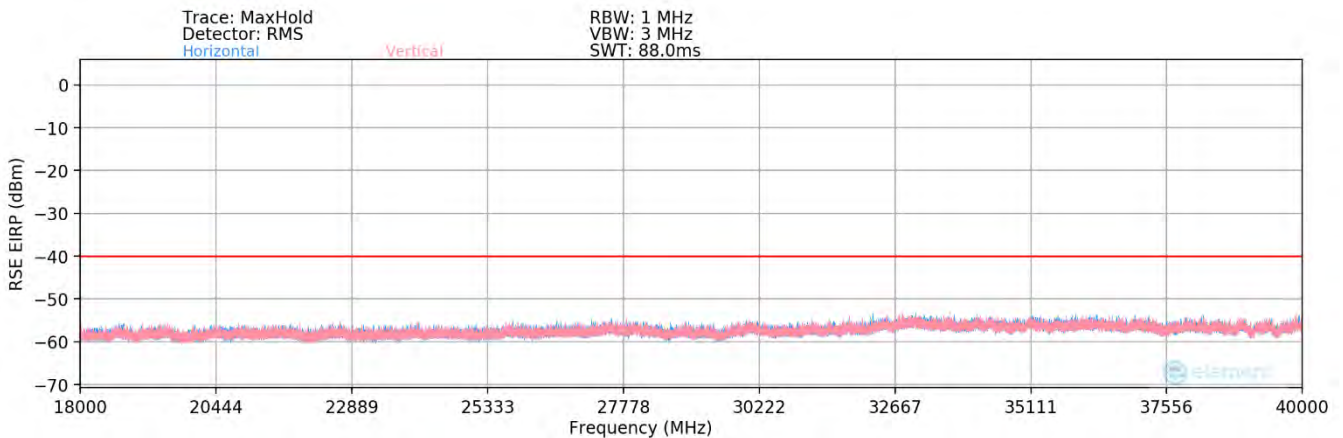
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| FCC: A3LSOG2201 | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
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**Plot 8-288. Radiated spurious emission Plot_30 MHz to 1000 MHz
(n48_1C_10M_QPSK - High Channel_8T)**

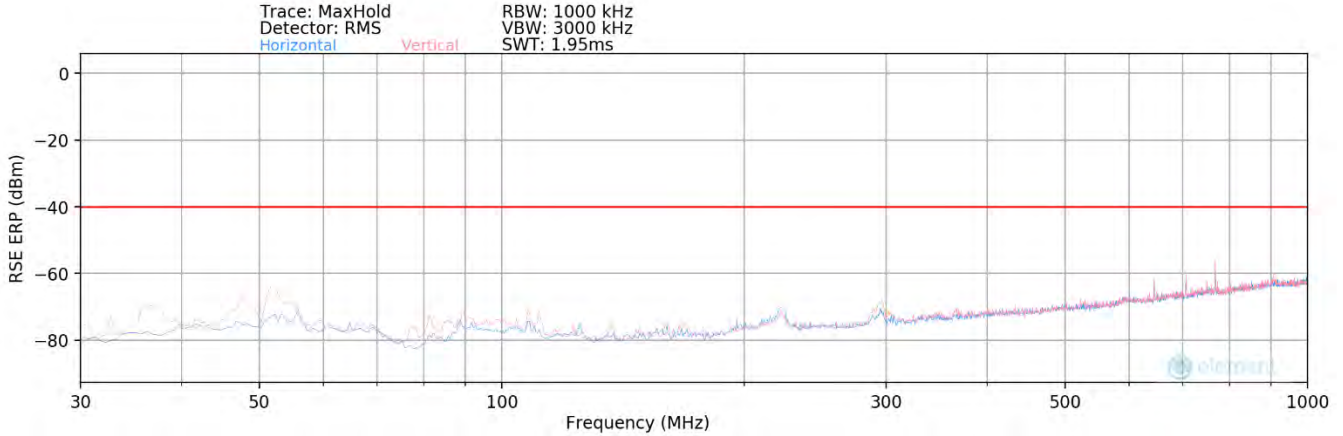


**Plot 8-289. Radiated spurious emission Plot_1 GHz to 18 GHz
(n48_1C_10M_QPSK - High Channel_8T)**

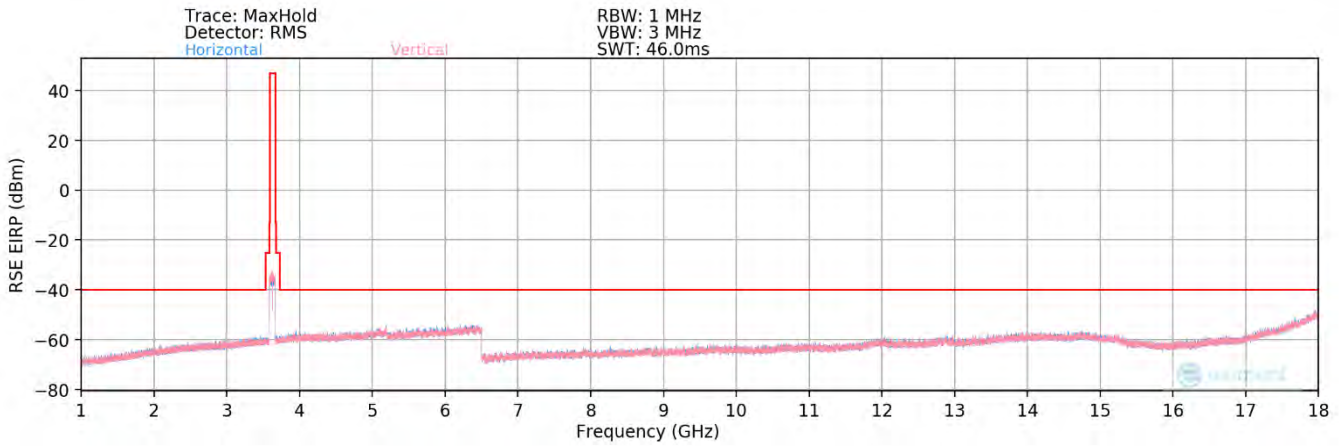


**Plot 8-290. Radiated spurious emission Plot_18 GHz to 40 GHz
(n48_1C_10M_QPSK - High Channel_8T)**

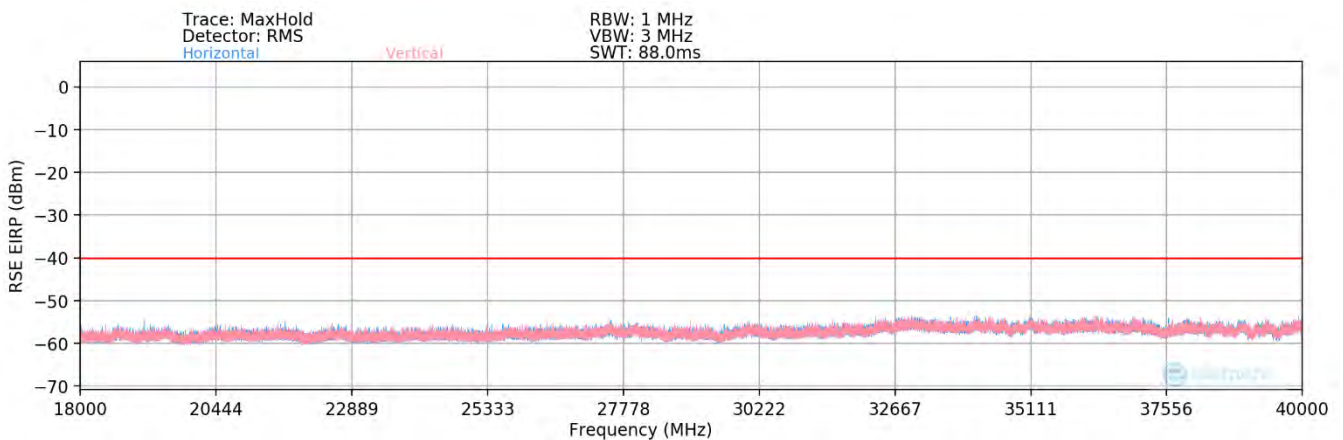
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**Plot 8-291. Radiated spurious emission Plot_30 MHz to 1000 MHz
(n48_2C_40M+40M_QPSK - Mid Channel_8T)**

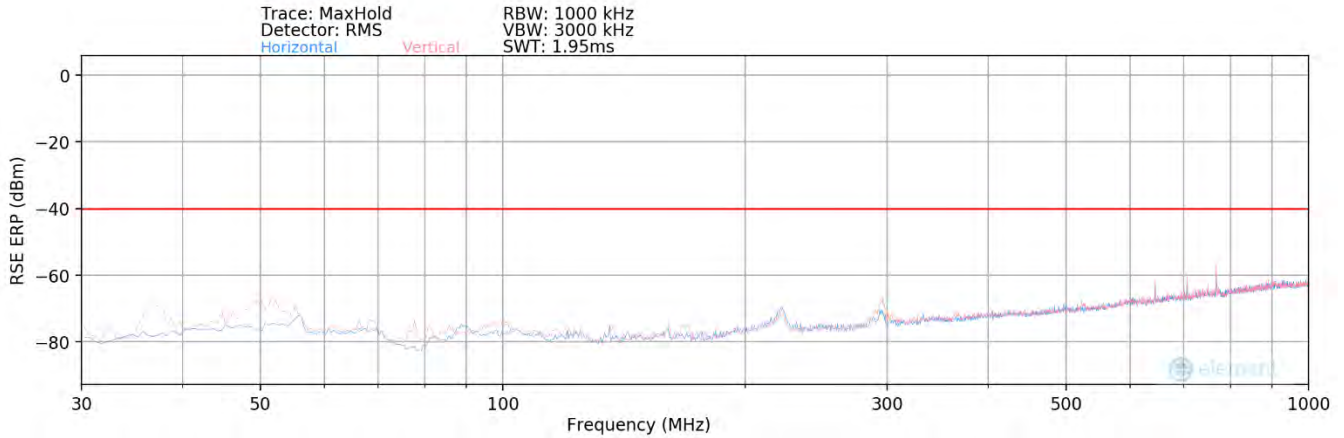


**Plot 8-292. Radiated spurious emission Plot_1 GHz to 18 GHz
(n48_1C_2C_40M+40M_QPSK - Mid Channel_8T)**

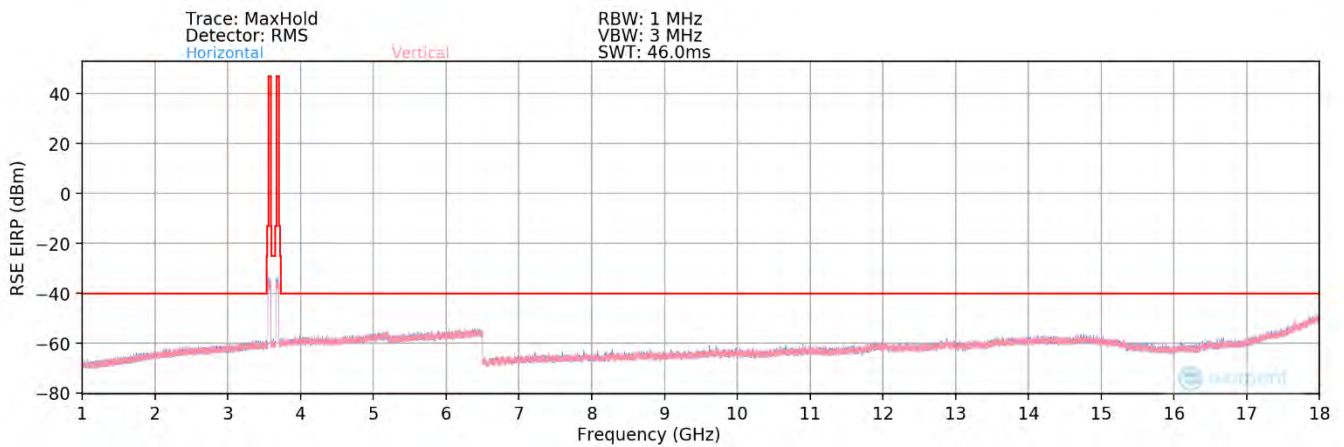


**Plot 8-293. Radiated spurious emission Plot_18 GHz to 40 GHz
(n48_2C_40M+40M_QPSK - Mid Channel_8T)**

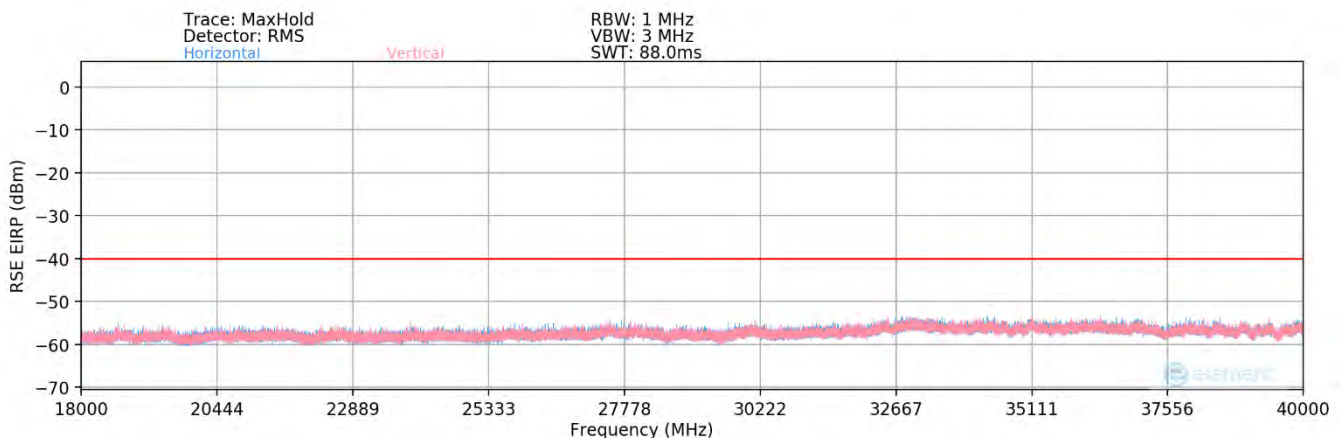
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**Plot 8-294. Radiated spurious emission Plot_30 MHz to 1000 MHz
(n48_2C_40M+40M_Non-Contiguous_QPSK - Mid Channel_8T)**



**Plot 8-295. Radiated spurious emission Plot_1 GHz to 18 GHz
(n48_2C_40M+40M_Non-Contiguous_QPSK - Mid Channel_8T)**




**Plot 8-296. Radiated spurious emission Plot_18 GHz to 40 GHz
(n48_2C_40M+40M_Non-Contiguous_QPSK - Mid Channel_8T)**

| | | | | |
|--|--|---------------------------------------|--|-----------------------------------|
| FCC: A3LSOG2201 | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 228 of 289 |

| | |
|--------------------|---------------------------|
| Bandwidth (MHz): | n48_1C_10M_Middle Channel |
| Frequency (MHz): | 3625 MHz |
| Modulation Signal: | QPSK |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Heigh [cm] | Turntable azimuth [degree] | Analyzer Level [dBm/MHz] | AFCL [dBm] | Field Strength [dB μ V/m] | RSE EIRP [dBm/MHz] | Limit [dBm/MHz] | Margin [dB] |
|-----------------|-----------------|--------------------|----------------------------|--------------------------|------------|-------------------------------|--------------------|-----------------|-------------|
| 770.28 | H | 100 | 90 | -69.83 | 0.41 | 37.58 | -57.68 | -40.00 | -17.68 |
| 771.35 | V | 150 | 120 | -71.19 | 0.42 | 36.23 | -59.03 | -40.00 | -19.03 |
| 17952.35 | H | 150 | 60 | -83.38 | 24.85 | 48.74 | -46.47 | -40.00 | -6.47 |
| 17957.26 | V | 200 | 80 | -81.81 | 24.93 | 50.12 | -45.14 | -40.00 | -5.14 |

Table 8-228. Radiated spurious emission Worst mode Summary Data (n48_1C_20M_Middle Channel)

| | | | | |
|--|---|------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 229 of 289 |

8.10 Frequency Stability

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of KDB 971168 D01 v03r01. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C, +20°C and +50°C using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for VAC powered equipment.

Test Description

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made -30°C, +20°C and +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Limit

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

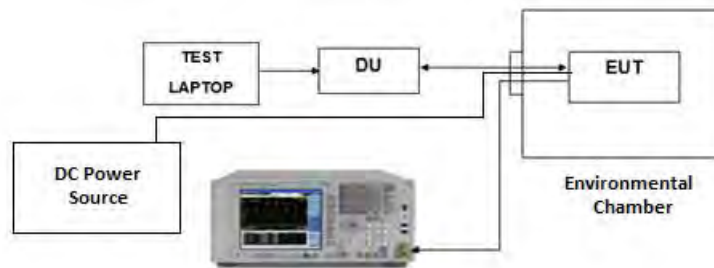


Figure 8-9. Test Instrument & Measurement Setup

Test Notes

Product is specified to operate over a range of input voltage from 44.00 to 90.00 VAC. So, the lowermost voltage (44.00 VAC) is applied for the -15% variation and the uppermost voltage (90.00 VAC) is applied for the +15% variation.

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 230 of 289 |

OPERATING FREQUENCY: 3,625,000,000 Hz

REFERENCE VOLTAGE: 60.00 VAC

| VOLTAGE (%) | POWER (VAC) | TEMP (°C) | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|-------------|-------------|------------|----------------|-----------------|---------------|
| 100 % | 60.00 | + 20 (Ref) | 3,625,000,924 | 0 | 0.0000000 |
| 100 % | | - 30 | 3,625,000,972 | 48 | 0.0000013 |
| 100 % | | - 20 | 3,625,001,004 | 80 | 0.0000022 |
| 100 % | | - 10 | 3,625,001,056 | 132 | 0.0000036 |
| 100 % | | 0 | 3,625,001,096 | 172 | 0.0000047 |
| 100 % | | + 10 | 3,625,001,134 | 210 | 0.0000058 |
| 100 % | | + 30 | 3,625,001,161 | 237 | 0.0000065 |
| 100 % | | + 40 | 3,625,001,198 | 274 | 0.0000075 |
| 100 % | | + 50 | 3,625,001,234 | 310 | 0.0000085 |
| -15 % | | 44.00 | + 20 | 3,625,000,922 | -2 |
| +15 % | 90.00 | + 20 | 3,625,000,924 | 0 | 0.0000000 |

Table 8-229. Frequency Stability Summary Data (n48_1C_10M)

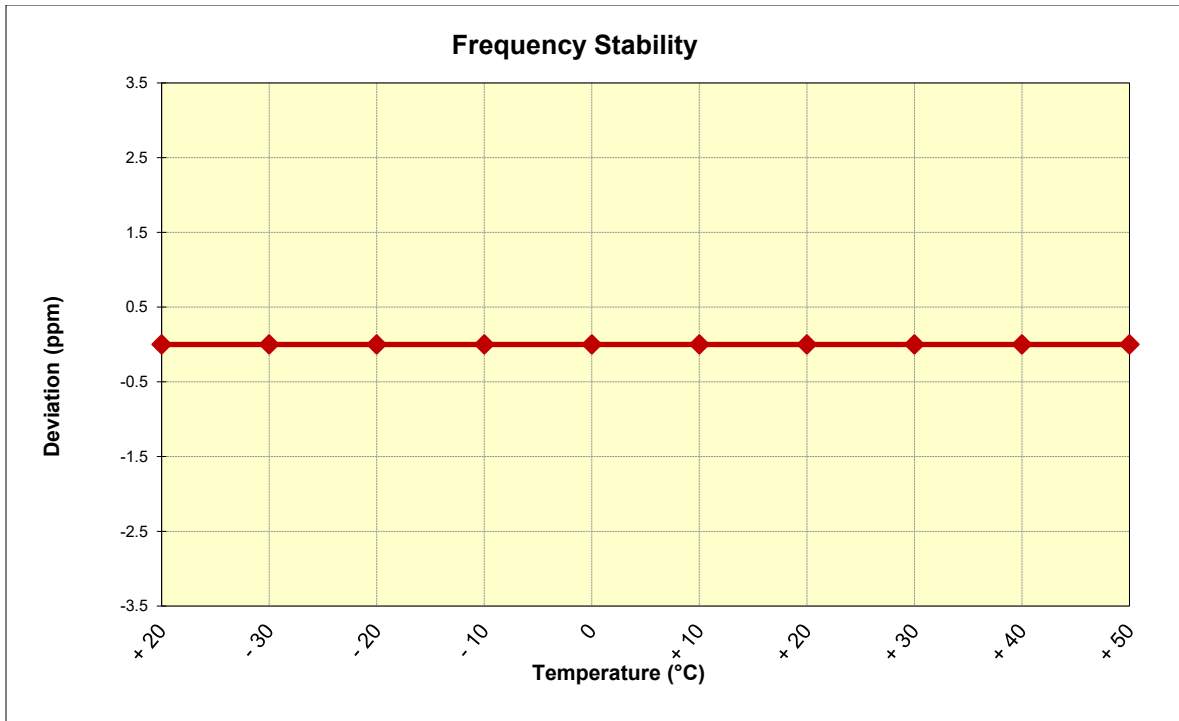


Figure 8-10. Frequency Stability Graph (n48_1C_10M)

| | | | | |
|--|--|---------------------------------------|-----------------|-----------------------------------|
| FCC: A3LSOG2201 | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | Page 231 of 289 | |

9.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Electronics Co., Ltd. CBSD FCC ID: A3LSOG2201** complies with all of the requirements of Part 96 of the FCC Rules.

| | | | |
|--|---|----------------------------------|--|
| FCC: A3LSOG2201 |  MEASUREMENT REPORT (CERTIFICATION)  | | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | Page 232 of 289 |

10.0 APPENDIX. A

10.1 Conducted Average Output Power

Test Overview

A transmitter port of EUT is connected to the input of a signal analyzer. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Description

KDB 971168 D01 v03r01 – Section 5
 KDB 662911 D01 v02r01 – Section E)1) In-Band Power Measurements
 ANSI C63.26-2015 – Section 5.2.4.4.1

The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The spectrum analyzer settings were as follows:

1. Conducted power measurements are performed using the signal analyzer’s “channel power” measurement capability for signals with continuous operation.
2. RBW = 1 ~ 5% of the expected OBW
3. VBW \geq 3 x RBW
4. Span = 2 ~ 3 x OBW
5. No. of sweep points \geq 2 x span / RBW
6. Detector = RMS
7. Trigger Settings is set to “RF Power” for signals with non-continuous operation with the sweep times set to “auto”. Refer test note 3 for details.
8. Trace mode = Trace-Averaging (RMS) set to average over 100 sweeps
9. The trace was allowed to stabilize

Test Setup

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

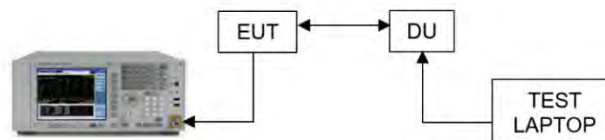


Figure 10-1. Test Instrument & Measurement Setup

Limit

N/A

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
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Note

1. Result for reference maximum output power of Grant of Authorization is under section 10.1.
2. Periodic trigger was used with gating ON. Gate sweeptime, Gate delay and gate length were set accordingly to capture ON time of the transmission.
3. MIMO Calculations are done considering output channel power for all ports and respective margins are calculated according to procedures in section 6.4 of ANSI C63.26 and section D of KDB 971168 D01 v03r01.
4. Consider the following factors for MIMO Power:
 Conducted power for each port is measured in dBm.
 Powers are summed up in linear using the measure-and-sum technique defined in KDB 971168 D01 v03r01- Section D.
 Conducted power per port (dBm) is converted to a linear value (mW). A summation of linear powers for all ports gives us the total MIMO conducted power in milliWatts (mW).
5. Antenna Gains (dBi) control value provided by the client.
6. Directional gain calculations were performed on the individual gains in specific direction across all directions.
7. Applied antenna gain as below:

| Mode | | Rated Conductive Power | | Total Directional Antenna Gain(dBi) | Rated EIRP (dBm/Unit) |
|-------------|---------------------|------------------------|------------|-------------------------------------|-----------------------|
| Active Zone | Active Antenna path | Path (dBm) | Unit (dBm) | | |
| 1 | 2T | 28 | 31 | 11 ±1 | 43 |
| 2 | 4T | 28 | 34 | 10 ±1 | 45 |
| 4 | 8T | 25 | 34 | 7 ±1 | 42 |

8. Sample Calculation:
 Let us assume the following numbers:
 - a) Total MIMO Conducted Power as 1198.34 mW
 - b) Antenna Gain = 12.00 dBi

| Factors | Value | Unit |
|--|--------------|------------|
| Summed MIMO Conducted Power (linear sum) | 1198.34 | mW |
| Summed MIMO Conducted Power (dBm) = $10 * \log(1198.34) =$ | 30.79 | dBm |
| Antenna Gain | 12.00 | dBi |
| Total MIMO EIRP | 42.79 | dBm |

| | | | | |
|--|---|------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
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| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
|-----------------------------|------|------|---------|---------|---------|---------|
| 1 | 1 | 1 | 27.71 | 27.48 | 27.77 | 27.73 |
| | | 2 | 27.84 | 27.53 | 27.80 | 27.76 |
| Total Conducted Power (mW) | | | 1198.34 | 1126.00 | 1200.97 | 1189.96 |
| Total Conducted Power (dBm) | | | 30.79 | 30.52 | 30.80 | 30.76 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.79 | 42.52 | 42.80 | 42.76 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 1 | 2 | 3 | 27.84 | 27.50 | 27.77 | 27.40 |
| | | 4 | 27.68 | 27.40 | 27.69 | 27.32 |
| Total Conducted Power (mW) | | | 1194.27 | 1111.88 | 1185.90 | 1089.05 |
| Total Conducted Power (dBm) | | | 30.77 | 30.46 | 30.74 | 30.37 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.77 | 42.46 | 42.74 | 42.37 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 3 | 5 | 27.80 | 27.77 | 28.06 | 28.14 |
| | | 6 | 27.72 | 27.68 | 27.96 | 28.07 |
| Total Conducted Power (mW) | | | 1194.12 | 1184.55 | 1264.91 | 1292.84 |
| Total Conducted Power (dBm) | | | 30.77 | 30.74 | 31.02 | 31.12 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.77 | 42.74 | 43.02 | 43.12 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 4 | 7 | 27.54 | 27.54 | 27.81 | 27.89 |
| | | 8 | 27.65 | 27.65 | 27.84 | 28.02 |
| Total Conducted Power (mW) | | | 1149.65 | 1149.65 | 1212.08 | 1249.05 |
| Total Conducted Power (dBm) | | | 30.61 | 30.61 | 30.84 | 30.97 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.61 | 42.61 | 42.84 | 42.97 |

Table 10-1. Conducted Average Output Power Table (n48_1C_10M_Low Channel_2T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 235 of 289 |

| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
|-----------------------------|------|------|---------|---------|---------|---------|
| 1 | 1 | 1 | 27.92 | 27.64 | 27.67 | 27.70 |
| | | 2 | 27.82 | 27.68 | 27.71 | 27.74 |
| Total Conducted Power (mW) | | | 1224.78 | 1166.90 | 1174.99 | 1183.14 |
| Total Conducted Power (dBm) | | | 30.88 | 30.67 | 30.70 | 30.73 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.88 | 42.67 | 42.70 | 42.73 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 1 | 2 | 3 | 27.79 | 27.67 | 27.74 | 27.80 |
| | | 4 | 27.80 | 27.66 | 27.59 | 27.79 |
| Total Conducted Power (mW) | | | 1203.73 | 1168.24 | 1168.41 | 1203.73 |
| Total Conducted Power (dBm) | | | 30.81 | 30.68 | 30.68 | 30.81 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.81 | 42.68 | 42.68 | 42.81 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 3 | 5 | 28.13 | 28.15 | 28.24 | 28.44 |
| | | 6 | 28.61 | 28.43 | 28.29 | 28.39 |
| Total Conducted Power (mW) | | | 1376.24 | 1349.76 | 1341.33 | 1388.47 |
| Total Conducted Power (dBm) | | | 31.39 | 31.30 | 31.28 | 31.43 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.39 | 43.30 | 43.28 | 43.43 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 4 | 7 | 28.30 | 27.77 | 28.03 | 28.20 |
| | | 8 | 28.38 | 27.79 | 28.24 | 28.47 |
| Total Conducted Power (mW) | | | 1364.74 | 1199.59 | 1302.14 | 1363.77 |
| Total Conducted Power (dBm) | | | 31.35 | 30.79 | 31.15 | 31.35 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.35 | 42.79 | 43.15 | 43.35 |

Table 10-2. Conducted Average Output Power Table (n48_1C_10M_Middle Channel_2T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 236 of 289 |

| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
|-----------------------------|------|------|---------|---------|---------|---------|
| 1 | 1 | 1 | 27.92 | 27.66 | 27.62 | 27.46 |
| | | 2 | 28.02 | 27.75 | 27.46 | 27.58 |
| Total Conducted Power (mW) | | | 1253.31 | 1179.11 | 1135.28 | 1129.98 |
| Total Conducted Power (dBm) | | | 30.98 | 30.72 | 30.55 | 30.53 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.98 | 42.72 | 42.55 | 42.53 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 1 | 2 | 3 | 27.94 | 27.68 | 27.43 | 27.54 |
| | | 4 | 27.89 | 27.55 | 27.33 | 27.45 |
| Total Conducted Power (mW) | | | 1237.48 | 1154.99 | 1094.10 | 1123.45 |
| Total Conducted Power (dBm) | | | 30.93 | 30.63 | 30.39 | 30.51 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.93 | 42.63 | 42.39 | 42.51 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 3 | 5 | 27.74 | 27.98 | 27.45 | 28.00 |
| | | 6 | 27.68 | 28.02 | 28.02 | 28.11 |
| Total Conducted Power (mW) | | | 1180.43 | 1261.93 | 1189.77 | 1278.10 |
| Total Conducted Power (dBm) | | | 30.72 | 31.01 | 30.75 | 31.07 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.72 | 43.01 | 42.75 | 43.07 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 4 | 7 | 27.61 | 27.56 | 27.91 | 27.97 |
| | | 8 | 27.50 | 27.73 | 27.85 | 27.93 |
| Total Conducted Power (mW) | | | 1139.11 | 1163.09 | 1227.55 | 1247.48 |
| Total Conducted Power (dBm) | | | 30.57 | 30.66 | 30.89 | 30.96 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.57 | 42.66 | 42.89 | 42.96 |

Table 10-3. Conducted Average Output Power Table (n48_1C_10M_High Channel_2T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 237 of 289 |



| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
|-----------------------------|------|------|---------|---------|---------|---------|
| 1 | 1 | 1 | 27.54 | 28.07 | 27.43 | 28.07 |
| | | 2 | 27.61 | 28.14 | 27.62 | 28.15 |
| Total Conducted Power (mW) | | | 1144.31 | 1292.84 | 1131.45 | 1294.34 |
| Total Conducted Power (dBm) | | | 30.59 | 31.12 | 30.54 | 31.12 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.59 | 43.12 | 42.54 | 43.12 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 1 | 2 | 3 | 27.78 | 28.34 | 27.68 | 28.33 |
| | | 4 | 27.56 | 28.13 | 27.55 | 28.08 |
| Total Conducted Power (mW) | | | 1169.96 | 1332.47 | 1154.99 | 1323.46 |
| Total Conducted Power (dBm) | | | 30.68 | 31.25 | 30.63 | 31.22 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.68 | 43.25 | 42.63 | 43.22 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 3 | 5 | 27.77 | 28.32 | 27.65 | 28.25 |
| | | 6 | 28.04 | 28.59 | 27.96 | 27.96 |
| Total Conducted Power (mW) | | | 1235.21 | 1401.97 | 1207.28 | 1293.52 |
| Total Conducted Power (dBm) | | | 30.92 | 31.47 | 30.82 | 31.12 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.92 | 43.47 | 42.82 | 43.12 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 4 | 7 | 27.45 | 28.03 | 27.43 | 27.98 |
| | | 8 | 27.58 | 28.16 | 27.65 | 28.12 |
| Total Conducted Power (mW) | | | 1128.70 | 1289.97 | 1135.45 | 1276.69 |
| Total Conducted Power (dBm) | | | 30.53 | 31.11 | 30.55 | 31.06 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.53 | 43.11 | 42.55 | 43.06 |

Table 10-4. Conducted Average Output Power Table (n48_1C_20M_Low Channel_2T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 238 of 289 |

| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
|-----------------------------|------|------|---------|---------|---------|---------|
| 1 | 1 | 1 | 28.41 | 28.62 | 28.46 | 28.40 |
| | | 2 | 28.47 | 28.66 | 28.46 | 28.46 |
| Total Conducted Power (mW) | | | 1396.50 | 1462.29 | 1402.91 | 1393.29 |
| Total Conducted Power (dBm) | | | 31.45 | 31.65 | 31.47 | 31.44 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.45 | 43.65 | 43.47 | 43.44 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 1 | 2 | 3 | 28.22 | 28.70 | 28.81 | 28.80 |
| | | 4 | 28.55 | 28.67 | 28.62 | 28.52 |
| Total Conducted Power (mW) | | | 1379.89 | 1477.52 | 1488.11 | 1469.79 |
| Total Conducted Power (dBm) | | | 31.40 | 31.70 | 31.73 | 31.67 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.40 | 43.70 | 43.73 | 43.67 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 3 | 5 | 28.34 | 28.17 | 28.18 | 28.06 |
| | | 6 | 28.60 | 28.59 | 28.59 | 28.46 |
| Total Conducted Power (mW) | | | 1406.77 | 1378.92 | 1380.43 | 1341.19 |
| Total Conducted Power (dBm) | | | 31.48 | 31.40 | 31.40 | 31.27 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.48 | 43.40 | 43.40 | 43.27 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 4 | 7 | 27.90 | 27.87 | 27.89 | 27.76 |
| | | 8 | 27.99 | 27.94 | 27.96 | 28.06 |
| Total Conducted Power (mW) | | | 1246.10 | 1234.65 | 1240.35 | 1236.77 |
| Total Conducted Power (dBm) | | | 30.96 | 30.92 | 30.94 | 30.92 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.96 | 42.92 | 42.94 | 42.92 |

Table 10-5. Conducted Average Output Power Table (n48_1C_20M_Middle Channel_2T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 239 of 289 |

| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
|-----------------------------|------|------|---------|---------|---------|---------|
| 1 | 1 | 1 | 27.25 | 27.82 | 27.22 | 27.73 |
| | | 2 | 27.32 | 27.90 | 27.62 | 27.89 |
| Total Conducted Power (mW) | | | 1070.40 | 1221.94 | 1105.33 | 1208.10 |
| Total Conducted Power (dBm) | | | 30.30 | 30.87 | 30.43 | 30.82 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.30 | 42.87 | 42.43 | 42.82 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 1 | 2 | 3 | 27.76 | 28.32 | 28.08 | 28.23 |
| | | 4 | 27.34 | 27.92 | 27.68 | 27.87 |
| Total Conducted Power (mW) | | | 1139.04 | 1298.64 | 1228.83 | 1277.62 |
| Total Conducted Power (dBm) | | | 30.57 | 31.13 | 30.89 | 31.06 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.57 | 43.13 | 42.89 | 43.06 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 3 | 5 | 27.49 | 28.09 | 27.81 | 28.14 |
| | | 6 | 27.93 | 28.58 | 28.24 | 27.91 |
| Total Conducted Power (mW) | | | 1181.92 | 1365.28 | 1270.76 | 1269.64 |
| Total Conducted Power (dBm) | | | 30.73 | 31.35 | 31.04 | 31.04 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.73 | 43.35 | 43.04 | 43.04 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 4 | 7 | 27.37 | 28.02 | 27.69 | 27.99 |
| | | 8 | 27.34 | 27.98 | 27.63 | 27.93 |
| Total Conducted Power (mW) | | | 1087.76 | 1261.93 | 1166.92 | 1250.38 |
| Total Conducted Power (dBm) | | | 30.37 | 31.01 | 30.67 | 30.97 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.37 | 43.01 | 42.67 | 42.97 |

Table 10-6. Conducted Average Output Power Table (n48_1C_20M_High Channel_2T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 240 of 289 |

| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
|-----------------------------|------|------|---------|---------|---------|---------|
| 1 | 1 | 1 | 27.99 | 27.72 | 27.64 | 27.44 |
| | | 2 | 28.07 | 27.73 | 27.71 | 27.47 |
| Total Conducted Power (mW) | | | 1270.72 | 1184.49 | 1170.97 | 1113.10 |
| Total Conducted Power (dBm) | | | 31.04 | 30.74 | 30.69 | 30.47 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.04 | 42.74 | 42.69 | 42.47 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 1 | 2 | 3 | 28.10 | 27.99 | 27.97 | 27.73 |
| | | 4 | 27.96 | 27.62 | 27.90 | 27.48 |
| Total Conducted Power (mW) | | | 1270.83 | 1207.60 | 1243.21 | 1152.68 |
| Total Conducted Power (dBm) | | | 31.04 | 30.82 | 30.95 | 30.62 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.04 | 42.82 | 42.95 | 42.62 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 3 | 5 | 28.22 | 27.92 | 27.86 | 27.63 |
| | | 6 | 28.53 | 28.34 | 28.42 | 28.06 |
| Total Conducted Power (mW) | | | 1376.60 | 1301.78 | 1305.97 | 1219.16 |
| Total Conducted Power (dBm) | | | 31.39 | 31.15 | 31.16 | 30.86 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.39 | 43.15 | 43.16 | 42.86 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 4 | 7 | 27.80 | 27.57 | 27.71 | 27.41 |
| | | 8 | 28.01 | 27.72 | 27.74 | 27.53 |
| Total Conducted Power (mW) | | | 1234.97 | 1163.04 | 1184.49 | 1117.05 |
| Total Conducted Power (dBm) | | | 30.92 | 30.66 | 30.74 | 30.48 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.92 | 42.66 | 42.74 | 42.48 |

Table 10-7. Conducted Average Output Power Table (n48_1C_30M_Low Channel_2T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 241 of 289 |

| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
|-----------------------------|------|------|---------|---------|---------|---------|
| 1 | 1 | 1 | 28.28 | 28.45 | 28.43 | 28.40 |
| | | 2 | 28.35 | 28.51 | 28.57 | 28.49 |
| Total Conducted Power (mW) | | | 1356.89 | 1409.42 | 1416.08 | 1398.15 |
| Total Conducted Power (dBm) | | | 31.33 | 31.49 | 31.51 | 31.46 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.33 | 43.49 | 43.51 | 43.46 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 1 | 2 | 3 | 28.65 | 28.80 | 28.65 | 28.65 |
| | | 4 | 28.35 | 28.49 | 28.63 | 28.40 |
| Total Conducted Power (mW) | | | 1416.74 | 1464.90 | 1462.28 | 1424.66 |
| Total Conducted Power (dBm) | | | 31.51 | 31.66 | 31.65 | 31.54 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.51 | 43.66 | 43.65 | 43.54 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 3 | 5 | 28.21 | 28.56 | 28.60 | 28.52 |
| | | 6 | 28.21 | 28.63 | 28.58 | 28.63 |
| Total Conducted Power (mW) | | | 1324.43 | 1447.25 | 1445.54 | 1440.67 |
| Total Conducted Power (dBm) | | | 31.22 | 31.61 | 31.60 | 31.59 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.22 | 43.61 | 43.60 | 43.59 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 4 | 7 | 27.95 | 28.54 | 28.14 | 28.19 |
| | | 8 | 28.05 | 28.67 | 28.17 | 28.35 |
| Total Conducted Power (mW) | | | 1262.00 | 1450.70 | 1307.77 | 1343.09 |
| Total Conducted Power (dBm) | | | 31.01 | 31.62 | 31.17 | 31.28 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.01 | 43.62 | 43.17 | 43.28 |

Table 10-8. Conducted Average Output Power Table (n48_1C_30M_Middle Channel_2T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 242 of 289 |


| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
|-----------------------------|------|------|---------|---------|---------|---------|
| 1 | 1 | 1 | 27.97 | 27.66 | 27.31 | 27.32 |
| | | 2 | 27.91 | 27.77 | 27.73 | 27.59 |
| Total Conducted Power (mW) | | | 1244.63 | 1181.86 | 1131.20 | 1113.63 |
| Total Conducted Power (dBm) | | | 30.95 | 30.73 | 30.54 | 30.47 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.95 | 42.73 | 42.54 | 42.47 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 1 | 2 | 3 | 28.30 | 28.22 | 28.14 | 28.04 |
| | | 4 | 27.87 | 27.77 | 27.69 | 27.63 |
| Total Conducted Power (mW) | | | 1288.43 | 1262.15 | 1239.12 | 1216.22 |
| Total Conducted Power (dBm) | | | 31.10 | 31.01 | 30.93 | 30.85 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.10 | 43.01 | 42.93 | 42.85 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 3 | 5 | 28.03 | 27.90 | 27.85 | 27.72 |
| | | 6 | 28.43 | 28.30 | 28.30 | 28.17 |
| Total Conducted Power (mW) | | | 1331.96 | 1292.68 | 1285.62 | 1247.71 |
| Total Conducted Power (dBm) | | | 31.24 | 31.11 | 31.09 | 30.96 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.24 | 43.11 | 43.09 | 42.96 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 4 | 7 | 27.98 | 27.70 | 27.79 | 27.56 |
| | | 8 | 27.83 | 27.65 | 27.71 | 27.50 |
| Total Conducted Power (mW) | | | 1234.79 | 1170.95 | 1191.37 | 1132.51 |
| Total Conducted Power (dBm) | | | 30.92 | 30.69 | 30.76 | 30.54 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.92 | 42.69 | 42.76 | 42.54 |

Table 10-9. Conducted Average Output Power Table (n48_1C_30M_High Channel_2T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 243 of 289 |

| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
|-----------------------------|------|------|---------|---------|---------|---------|
| 1 | 1 | 1 | 27.83 | 28.32 | 27.94 | 28.12 |
| | | 2 | 27.89 | 28.48 | 28.08 | 28.20 |
| Total Conducted Power (mW) | | | 1221.91 | 1383.90 | 1264.99 | 1309.33 |
| Total Conducted Power (dBm) | | | 30.87 | 31.41 | 31.02 | 31.17 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.87 | 43.41 | 43.02 | 43.17 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 1 | 2 | 3 | 28.10 | 28.63 | 28.30 | 28.64 |
| | | 4 | 27.92 | 28.31 | 28.27 | 28.17 |
| Total Conducted Power (mW) | | | 1265.10 | 1407.10 | 1347.51 | 1387.28 |
| Total Conducted Power (dBm) | | | 31.02 | 31.48 | 31.30 | 31.42 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.02 | 43.48 | 43.30 | 43.42 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 3 | 5 | 28.09 | 28.51 | 28.42 | 28.30 |
| | | 6 | 28.04 | 28.73 | 28.71 | 28.74 |
| Total Conducted Power (mW) | | | 1280.96 | 1456.03 | 1438.04 | 1424.25 |
| Total Conducted Power (dBm) | | | 31.08 | 31.63 | 31.58 | 31.54 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.08 | 43.63 | 43.58 | 43.54 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 4 | 7 | 28.14 | 28.50 | 28.32 | 28.02 |
| | | 8 | 28.22 | 28.60 | 28.37 | 28.23 |
| Total Conducted Power (mW) | | | 1315.37 | 1432.38 | 1366.27 | 1299.14 |
| Total Conducted Power (dBm) | | | 31.19 | 31.56 | 31.36 | 31.14 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.19 | 43.56 | 43.36 | 43.14 |

Table 10-10. Conducted Average Output Power Table (n48_1C_40M_Low Channel_2T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 244 of 289 |

| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
|-----------------------------|------|------|---------|---------|---------|---------|
| 1 | 1 | 1 | 27.95 | 28.11 | 27.96 | 27.95 |
| | | 2 | 27.99 | 28.23 | 27.97 | 28.02 |
| Total Conducted Power (mW) | | | 1253.24 | 1312.42 | 1251.79 | 1257.60 |
| Total Conducted Power (dBm) | | | 30.98 | 31.18 | 30.98 | 31.00 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.98 | 43.18 | 42.98 | 43.00 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 1 | 2 | 3 | 28.29 | 28.48 | 28.30 | 28.36 |
| | | 4 | 28.08 | 28.19 | 28.13 | 28.04 |
| Total Conducted Power (mW) | | | 1317.22 | 1363.87 | 1326.21 | 1322.28 |
| Total Conducted Power (dBm) | | | 31.20 | 31.35 | 31.23 | 31.21 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.20 | 43.35 | 43.23 | 43.21 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 3 | 5 | 28.03 | 28.54 | 28.28 | 28.40 |
| | | 6 | 28.52 | 28.58 | 28.52 | 28.40 |
| Total Conducted Power (mW) | | | 1346.54 | 1435.60 | 1384.19 | 1383.66 |
| Total Conducted Power (dBm) | | | 31.29 | 31.57 | 31.41 | 31.41 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.29 | 43.57 | 43.41 | 43.41 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 4 | 7 | 27.71 | 28.28 | 27.85 | 28.10 |
| | | 8 | 27.78 | 28.34 | 28.00 | 28.15 |
| Total Conducted Power (mW) | | | 1189.99 | 1355.32 | 1240.49 | 1298.78 |
| Total Conducted Power (dBm) | | | 30.76 | 31.32 | 30.94 | 31.14 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.76 | 43.32 | 42.94 | 43.14 |

Table 10-11. Conducted Average Output Power Table (n48_1C_40M_Middle Channel_2T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 245 of 289 |


| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
|-----------------------------|------|------|---------|---------|---------|---------|
| 1 | 1 | 1 | 27.59 | 28.03 | 27.53 | 27.75 |
| | | 2 | 27.66 | 28.19 | 27.60 | 27.77 |
| Total Conducted Power (mW) | | | 1157.56 | 1294.50 | 1141.68 | 1194.07 |
| Total Conducted Power (dBm) | | | 30.64 | 31.12 | 30.58 | 30.77 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.64 | 43.12 | 42.58 | 42.77 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 1 | 2 | 3 | 28.02 | 28.50 | 27.97 | 28.14 |
| | | 4 | 27.41 | 27.90 | 27.35 | 27.71 |
| Total Conducted Power (mW) | | | 1184.68 | 1324.54 | 1169.86 | 1241.83 |
| Total Conducted Power (dBm) | | | 30.74 | 31.22 | 30.68 | 30.94 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.74 | 43.22 | 42.68 | 42.94 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 3 | 5 | 27.71 | 28.23 | 27.75 | 27.99 |
| | | 6 | 28.29 | 28.69 | 28.40 | 28.38 |
| Total Conducted Power (mW) | | | 1264.73 | 1404.88 | 1287.49 | 1318.16 |
| Total Conducted Power (dBm) | | | 31.02 | 31.48 | 31.10 | 31.20 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.02 | 43.48 | 43.10 | 43.20 |
| Sector | Zone | Port | QPSK | 16QAM | 64QAM | 256QAM |
| 2 | 4 | 7 | 27.54 | 27.99 | 27.61 | 27.78 |
| | | 8 | 27.55 | 28.01 | 27.61 | 27.78 |
| Total Conducted Power (mW) | | | 1136.40 | 1261.92 | 1153.53 | 1199.58 |
| Total Conducted Power (dBm) | | | 30.56 | 31.01 | 30.62 | 30.79 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.56 | 43.01 | 42.62 | 42.79 |

Table 10-12. Conducted Average Output Power Table (n48_1C_40M_High Channel_2T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 246 of 289 |

| Sector | Zone | Port | QPSK | 16QAM |
|-----------------------------|------|------|---------|---------|
| 1 | 1 | 1 | 27.60 | 28.07 |
| | | 2 | 27.55 | 27.94 |
| Total Conducted Power (mW) | | | 1144.29 | 1263.51 |
| Total Conducted Power (dBm) | | | 30.59 | 31.02 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.59 | 43.02 |
| Sector | Zone | Port | QPSK | 16QAM |
| 1 | 2 | 3 | 27.81 | 27.82 |
| | | 4 | 27.53 | 27.95 |
| Total Conducted Power (mW) | | | 1170.19 | 1229.08 |
| Total Conducted Power (dBm) | | | 30.68 | 30.90 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.68 | 42.90 |
| Sector | Zone | Port | QPSK | 16QAM |
| 2 | 3 | 5 | 27.80 | 28.13 |
| | | 6 | 27.72 | 28.04 |
| Total Conducted Power (mW) | | | 1194.12 | 1286.93 |
| Total Conducted Power (dBm) | | | 30.77 | 31.10 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.77 | 43.10 |
| Sector | Zone | Port | QPSK | 16QAM |
| 2 | 4 | 7 | 27.55 | 27.85 |
| | | 8 | 27.68 | 27.95 |
| Total Conducted Power (mW) | | | 1154.99 | 1233.27 |
| Total Conducted Power (dBm) | | | 30.63 | 30.91 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.63 | 42.91 |

Table 10-13. Conducted Average Output Power Table (n48_2C_10M+10M_Low Channel_2T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 247 of 289 |

| Sector | Zone | Port | QPSK | 16QAM |
|-----------------------------|------|------|---------|---------|
| 1 | 1 | 1 | 28.23 | 28.32 |
| | | 2 | 28.26 | 28.42 |
| Total Conducted Power (mW) | | | 1335.16 | 1374.23 |
| Total Conducted Power (dBm) | | | 31.26 | 31.38 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.26 | 43.38 |
| Sector | Zone | Port | QPSK | 16QAM |
| 1 | 2 | 3 | 28.66 | 28.47 |
| | | 4 | 28.30 | 28.47 |
| Total Conducted Power (mW) | | | 1410.60 | 1406.14 |
| Total Conducted Power (dBm) | | | 31.49 | 31.48 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.49 | 43.48 |
| Sector | Zone | Port | QPSK | 16QAM |
| 2 | 3 | 5 | 28.83 | 28.92 |
| | | 6 | 28.92 | 28.55 |
| Total Conducted Power (mW) | | | 1543.67 | 1495.97 |
| Total Conducted Power (dBm) | | | 31.89 | 31.75 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.89 | 43.75 |
| Sector | Zone | Port | QPSK | 16QAM |
| 2 | 4 | 7 | 28.60 | 28.81 |
| | | 8 | 28.70 | 28.82 |
| Total Conducted Power (mW) | | | 1465.75 | 1522.41 |
| Total Conducted Power (dBm) | | | 31.66 | 31.83 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.66 | 43.83 |

Table 10-14. Conducted Average Output Power Table (n48_2C_10M+10M_Middle Channel_2T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 248 of 289 |

| Sector | Zone | Port | QPSK | 16QAM |
|-----------------------------|------|------|---------|---------|
| 1 | 1 | 1 | 27.49 | 27.96 |
| | | 2 | 27.62 | 27.80 |
| Total Conducted Power (mW) | | | 1139.14 | 1227.73 |
| Total Conducted Power (dBm) | | | 30.57 | 30.89 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.57 | 42.89 |
| Sector | Zone | Port | QPSK | 16QAM |
| 1 | 2 | 3 | 27.57 | 27.91 |
| | | 4 | 27.70 | 27.91 |
| Total Conducted Power (mW) | | | 1160.32 | 1236.03 |
| Total Conducted Power (dBm) | | | 30.65 | 30.92 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.65 | 42.92 |
| Sector | Zone | Port | QPSK | 16QAM |
| 2 | 3 | 5 | 27.56 | 27.91 |
| | | 6 | 27.64 | 27.98 |
| Total Conducted Power (mW) | | | 1150.93 | 1246.07 |
| Total Conducted Power (dBm) | | | 30.61 | 30.96 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.61 | 42.96 |
| Sector | Zone | Port | QPSK | 16QAM |
| 2 | 4 | 7 | 27.72 | 28.13 |
| | | 8 | 27.35 | 28.02 |
| Total Conducted Power (mW) | | | 1134.81 | 1284.00 |
| Total Conducted Power (dBm) | | | 30.55 | 31.09 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.55 | 43.09 |

Table 10-15. Conducted Average Output Power Table (n48_2C_10M+10M_High Channel_2T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 249 of 289 |

| Sector | Zone | Port | QPSK | 16QAM |
|-----------------------------|------|------|---------|---------|
| 1 | 1 | 1 | 27.63 | 27.72 |
| | | 2 | 27.63 | 27.79 |
| Total Conducted Power (mW) | | | 1158.86 | 1192.74 |
| Total Conducted Power (dBm) | | | 30.64 | 30.77 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.64 | 42.77 |
| Sector | Zone | Port | QPSK | 16QAM |
| 1 | 2 | 3 | 27.89 | 28.04 |
| | | 4 | 27.71 | 27.79 |
| Total Conducted Power (mW) | | | 1205.38 | 1237.97 |
| Total Conducted Power (dBm) | | | 30.81 | 30.93 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.81 | 42.93 |
| Sector | Zone | Port | QPSK | 16QAM |
| 2 | 3 | 5 | 27.94 | 27.92 |
| | | 6 | 27.89 | 27.90 |
| Total Conducted Power (mW) | | | 1237.48 | 1236.04 |
| Total Conducted Power (dBm) | | | 30.93 | 30.92 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.93 | 42.92 |
| Sector | Zone | Port | QPSK | 16QAM |
| 2 | 4 | 7 | 27.64 | 27.59 |
| | | 8 | 27.76 | 27.76 |
| Total Conducted Power (mW) | | | 1177.80 | 1171.15 |
| Total Conducted Power (dBm) | | | 30.71 | 30.69 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.71 | 42.69 |

Table 10-16. Conducted Average Output Power Table (n48_2C_10M+20M_Low Channel_2T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 250 of 289 |


| Sector | Zone | Port | QPSK | 16QAM |
|-----------------------------|------|------|---------|---------|
| 1 | 1 | 1 | 28.34 | 28.10 |
| | | 2 | 28.38 | 28.48 |
| Total Conducted Power (mW) | | | 1370.99 | 1350.35 |
| Total Conducted Power (dBm) | | | 31.37 | 31.30 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.37 | 43.30 |
| Sector | Zone | Port | QPSK | 16QAM |
| 1 | 2 | 3 | 28.63 | 28.51 |
| | | 4 | 28.40 | 28.43 |
| Total Conducted Power (mW) | | | 1421.29 | 1406.20 |
| Total Conducted Power (dBm) | | | 31.53 | 31.48 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.53 | 43.48 |
| Sector | Zone | Port | QPSK | 16QAM |
| 2 | 3 | 5 | 28.05 | 28.00 |
| | | 6 | 28.17 | 28.04 |
| Total Conducted Power (mW) | | | 1294.41 | 1267.75 |
| Total Conducted Power (dBm) | | | 31.12 | 31.03 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.12 | 43.03 |
| Sector | Zone | Port | QPSK | 16QAM |
| 2 | 4 | 7 | 27.86 | 27.84 |
| | | 8 | 27.89 | 27.71 |
| Total Conducted Power (mW) | | | 1226.12 | 1198.34 |
| Total Conducted Power (dBm) | | | 30.89 | 30.79 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.89 | 42.79 |

Table 10-17. Conducted Average Output Power Table (n48_2C_10M+20M_Middle Channel_2T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 251 of 289 |

| Sector | Zone | Port | QPSK | 16QAM |
|-----------------------------|------|------|---------|---------|
| 1 | 1 | 1 | 27.78 | 27.34 |
| | | 2 | 27.80 | 27.52 |
| Total Conducted Power (mW) | | | 1202.35 | 1106.94 |
| Total Conducted Power (dBm) | | | 30.80 | 30.44 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.80 | 42.44 |
| Sector | Zone | Port | QPSK | 16QAM |
| 1 | 2 | 3 | 27.45 | 28.02 |
| | | 4 | 27.81 | 27.67 |
| Total Conducted Power (mW) | | | 1159.85 | 1218.66 |
| Total Conducted Power (dBm) | | | 30.64 | 30.86 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.64 | 42.86 |
| Sector | Zone | Port | QPSK | 16QAM |
| 2 | 3 | 5 | 27.85 | 27.84 |
| | | 6 | 28.02 | 27.87 |
| Total Conducted Power (mW) | | | 1243.41 | 1220.49 |
| Total Conducted Power (dBm) | | | 30.95 | 30.87 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.95 | 42.87 |
| Sector | Zone | Port | QPSK | 16QAM |
| 2 | 4 | 7 | 27.75 | 27.59 |
| | | 8 | 27.73 | 27.82 |
| Total Conducted Power (mW) | | | 1188.59 | 1179.46 |
| Total Conducted Power (dBm) | | | 30.75 | 30.72 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.75 | 42.72 |

Table 10-18. Conducted Average Output Power Table (n48_2C_10M+20M_High Channel_2T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 252 of 289 |

| Sector | Zone | Port | QPSK | 16QAM |
|-----------------------------|------|------|---------|---------|
| 1 | 1 | 1 | 28.04 | 27.93 |
| | | 2 | 28.06 | 27.76 |
| Total Conducted Power (mW) | | | 1276.53 | 1217.90 |
| Total Conducted Power (dBm) | | | 31.06 | 30.86 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.06 | 42.86 |
| Sector | Zone | Port | QPSK | 16QAM |
| 1 | 2 | 3 | 28.32 | 27.74 |
| | | 4 | 28.01 | 27.62 |
| Total Conducted Power (mW) | | | 1311.62 | 1172.39 |
| Total Conducted Power (dBm) | | | 31.18 | 30.69 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.18 | 42.69 |
| Sector | Zone | Port | QPSK | 16QAM |
| 2 | 3 | 5 | 28.03 | 28.43 |
| | | 6 | 28.17 | 28.39 |
| Total Conducted Power (mW) | | | 1291.48 | 1386.87 |
| Total Conducted Power (dBm) | | | 31.11 | 31.42 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 43.11 | 43.42 |
| Sector | Zone | Port | QPSK | 16QAM |
| 2 | 4 | 7 | 27.85 | 28.12 |
| | | 8 | 28.09 | 28.26 |
| Total Conducted Power (mW) | | | 1253.71 | 1318.52 |
| Total Conducted Power (dBm) | | | 30.98 | 31.20 |
| Ant. Gain (dBi) | | | 12.00 | 12.00 |
| e.i.r.p (dBm) | | | 42.98 | 43.20 |

Table 10-19. Conducted Average Output Power Table (n48_2C_20M+20M_Low Channel_2T)

| | | | | |
|--|---|---------------------------------------|---|-----------------------------------|
| FCC: A3LSOG2201 |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Technical Manager |
| Test Report S/N: 8K22121601-00-R2.A3L | Test Dates: 01/03/2023 – 02/15/2023 | EUT Type: Smallcell (SOG2201) | | Page 253 of 289 |