

|                    |         |            |     |    |        |         |                |      |
|--------------------|---------|------------|-----|----|--------|---------|----------------|------|
|                    |         |            | -30 | NV | -4.30  | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -6.10  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -9.50  | -0.0037 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -7.10  | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -7.80  | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -5.50  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -6.70  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -9.40  | -0.0036 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -4.30  | -0.0017 | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 256 QAM | 2592.99 | Outer_Full | 20  | LV | -8.70  | -0.0034 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -6.70  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -8.60  | -0.0033 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -8.30  | -0.0032 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -7.00  | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -6.80  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -5.80  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -6.30  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -10.60 | -0.0041 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -7.20  | -0.0028 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -5.00  | -0.0019 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM QPSK       | 2592.99 | Outer_Full | 20  | LV | -8.30  | -0.0032 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -8.40  | -0.0032 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -5.20  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -7.30  | -0.0028 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -8.60  | -0.0033 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -9.50  | -0.0037 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -11.10 | -0.0043 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -7.60  | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -8.10  | -0.0031 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -8.70  | -0.0034 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -4.50  | -0.0017 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 16 QAM     | 2592.99 | Outer_Full | 20  | LV | -8.30  | -0.0032 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -6.90  | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -8.30  | -0.0032 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -6.20  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -7.80  | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -9.40  | -0.0036 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -5.10  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -7.90  | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -9.00  | -0.0035 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -9.20  | -0.0035 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -10.10 | -0.0039 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 64 QAM     | 2592.99 | Outer_Full | 20  | LV | -6.90  | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -6.90  | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -7.80  | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -6.30  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -7.20  | -0.0028 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -9.40  | -0.0036 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -8.20  | -0.0032 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -6.50  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -4.20  | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -10.40 | -0.0040 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -7.30  | -0.0028 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 256 QAM    | 2592.99 | Outer_Full | 20  | LV | -4.60  | -0.0018 | >=-2.5 & <=2.5 | Pass |



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|  |  |  |     |    |       |         |                |      |
|--|--|--|-----|----|-------|---------|----------------|------|
|  |  |  |     | HV | -5.20 | -0.0020 | >=-2.5 & <=2.5 | Pass |
|  |  |  | -30 | NV | -4.50 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|  |  |  | -20 | NV | -5.30 | -0.0020 | >=-2.5 & <=2.5 | Pass |
|  |  |  | -10 | NV | -2.40 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 0   | NV | -2.80 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 10  | NV | -3.00 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 20  | NV | -6.50 | -0.0025 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 30  | NV | -7.00 | -0.0027 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 40  | NV | -3.60 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 50  | NV | -5.80 | -0.0022 | >=-2.5 & <=2.5 | Pass |

## 6.11 30k\_SISO\_40MHz

### 6.11.1 Test Result

| 5G NR n41 SCS=30kHz SISO 40MHz |                 |               |            |       |                  |                       |                |         |
|--------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                     | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK           | 2592.99         | Outer_Full    | 20         | LV    | -5.00            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -4.80            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -7.90            | -0.0030               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -7.90            | -0.0030               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -7.40            | -0.0029               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -8.60            | -0.0033               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -4.80            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -6.70            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -6.40            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | -8.40            | -0.0032               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                | 2592.99         | Outer_Full    | 20         | LV    | -6.60            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -10.20           | -0.0039               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -7.80            | -0.0030               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -11.00           | -0.0042               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -4.70            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -6.10            | -0.0024               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -5.80            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -4.90            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -9.70            | -0.0037               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | -5.90            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM              | 2592.99         | Outer_Full    | 20         | LV    | -5.70            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -6.50            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -5.80            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -7.90            | -0.0030               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -6.30            | -0.0024               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -8.00            | -0.0031               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -5.30            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -7.60            | -0.0029               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -5.30            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | -7.10            | -0.0027               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 64 QAM              | 2592.99         | Outer_Full    | 20         | NV    | -4.70            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | LV    | -7.00            | -0.0027               | >=-2.5 & <=2.5 | Pass    |



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|                    |         |            |     |    |       |         |                |      |
|--------------------|---------|------------|-----|----|-------|---------|----------------|------|
|                    |         |            |     | HV | -4.80 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -6.70 | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -6.90 | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -7.50 | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -5.50 | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -6.20 | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -7.70 | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -2.90 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -7.50 | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -4.30 | -0.0017 | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 256 QAM | 2592.99 | Outer_Full | 20  | LV | -4.80 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -6.00 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -5.10 | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -7.30 | -0.0028 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -6.60 | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -8.50 | -0.0033 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -9.40 | -0.0036 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -9.20 | -0.0035 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -8.50 | -0.0033 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -6.40 | -0.0025 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM QPSK       | 2592.99 | Outer_Full | 50  | NV | -8.70 | -0.0034 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | LV | -4.50 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -2.70 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -4.40 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -4.70 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -7.10 | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -3.00 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -7.00 | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -4.50 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -5.10 | -0.0020 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 16 QAM     | 2592.99 | Outer_Full | 40  | NV | -5.20 | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -6.40 | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | LV | -3.10 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -5.30 | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -5.60 | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -4.80 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -5.10 | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -4.70 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -0.90 | -0.0003 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -4.70 | -0.0018 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 64 QAM     | 2592.99 | Outer_Full | 30  | NV | -1.90 | -0.0007 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -3.70 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -9.40 | -0.0036 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | LV | -5.00 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -8.50 | -0.0033 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -4.20 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -4.30 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | 2.60  | 0.0010  | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -4.80 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -3.80 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -3.00 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -4.80 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -7.60 | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -3.60 | -0.0014 | >=-2.5 & <=2.5 | Pass |



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 056-512157350888 056-512157370911 sgs.china@sgs.com

|                 |         |            |     |    |       |         |                |      |
|-----------------|---------|------------|-----|----|-------|---------|----------------|------|
| CP-OFDM 256 QAM | 2592.99 | Outer_Full | 20  | LV | -6.40 | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                 |         |            |     | HV | -9.50 | -0.0037 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -30 | NV | -7.50 | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -20 | NV | -7.60 | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -10 | NV | -5.40 | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 0   | NV | -8.10 | -0.0031 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 10  | NV | -6.70 | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 20  | NV | -5.50 | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 30  | NV | -6.30 | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 40  | NV | -8.00 | -0.0031 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 50  | NV | -5.40 | -0.0021 | >=-2.5 & <=2.5 | Pass |

## 6.12 30k\_SISO\_50MHz

## 6.12.1 Test Result

| 5G NR n41 SCS=30kHz SISO 50MHz |                 |               |            |       |                  |                       |                |         |
|--------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                     | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK           | 2592.99         | Outer_Full    | 20         | LV    | -11.50           | -0.0044               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -11.00           | -0.0042               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -11.50           | -0.0044               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -16.90           | -0.0065               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -13.10           | -0.0051               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -9.40            | -0.0036               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -11.80           | -0.0046               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -12.20           | -0.0047               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -10.40           | -0.0040               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | -6.60            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                | 2592.99         | Outer_Full    | 20         | LV    | -11.00           | -0.0042               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -10.70           | -0.0041               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -10.10           | -0.0039               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -9.60            | -0.0037               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -8.90            | -0.0034               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -11.30           | -0.0044               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -12.10           | -0.0047               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -11.70           | -0.0045               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -14.40           | -0.0056               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | -7.30            | -0.0028               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM              | 2592.99         | Outer_Full    | 20         | LV    | -11.10           | -0.0043               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -8.00            | -0.0031               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -10.10           | -0.0039               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -9.90            | -0.0038               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -10.50           | -0.0040               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -10.40           | -0.0040               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -9.00            | -0.0035               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -8.30            | -0.0032               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -11.80           | -0.0046               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | -8.90            | -0.0034               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 50         | NV    | -11.60           | -0.0045               | >=-2.5 & <=2.5 | Pass    |



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|                    |         |            |         |                |        |         |                |      |
|--------------------|---------|------------|---------|----------------|--------|---------|----------------|------|
| DFT-s-OFDM 64 QAM  | 2592.99 | Outer_Full | 20      | LV             | -11.80 | -0.0046 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -11.20 | -0.0043 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -9.30  | -0.0036 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -8.20  | -0.0032 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -7.70  | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -10.40 | -0.0040 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -7.80  | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -14.30 | -0.0055 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -8.10  | -0.0031 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -8.20  | -0.0032 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -9.10      | -0.0035 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| DFT-s-OFDM 256 QAM | 2592.99 | Outer_Full | 20      | LV             | -9.40  | -0.0036 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -8.40  | -0.0032 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -8.90  | -0.0034 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -11.00 | -0.0042 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -4.30  | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -6.60  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -9.80  | -0.0038 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -6.90  | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -8.80  | -0.0034 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -7.00  | -0.0027 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -6.30      | -0.0024 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM QPSK       | 2592.99 | Outer_Full | 20      | LV             | -5.30  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -2.30  | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -6.90  | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -6.00  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -4.60  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -6.20  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -6.50  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -3.90  | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -6.90  | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -6.10  | -0.0024 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -8.20      | -0.0032 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM 16 QAM     | 2592.99 | Outer_Full | 20      | LV             | -6.40  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -3.90  | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -4.70  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -5.40  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -5.80  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -5.00  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -4.50  | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -2.80  | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -5.60  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -6.20  | -0.0024 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -4.10      | -0.0016 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM 64 QAM     | 2592.99 | Outer_Full | 20      | LV             | -5.10  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -6.80  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -7.90  | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -3.60  | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -3.70  | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -6.70  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -4.50  | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -4.00  | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -8.50  | -0.0033 | >=-2.5 & <=2.5 | Pass |
| 40                 | NV      | -5.00      | -0.0019 | >=-2.5 & <=2.5 | Pass   |         |                |      |



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|                 |         |            |     |    |        |         |                          |      |
|-----------------|---------|------------|-----|----|--------|---------|--------------------------|------|
|                 |         |            | 50  | NV | -4.10  | -0.0016 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 256 QAM | 2592.99 | Outer_Full | 20  | LV | -6.70  | -0.0026 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            |     | HV | -5.90  | -0.0023 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -30 | NV | -6.90  | -0.0027 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -20 | NV | -8.00  | -0.0031 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -10 | NV | -7.60  | -0.0029 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 0   | NV | -5.50  | -0.0021 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -10.80 | -0.0042 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | -10.90 | -0.0042 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -8.10  | -0.0031 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -5.80  | -0.0022 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 50  | NV | -9.10  | -0.0035 | $\geq -2.5$ & $\leq 2.5$ | Pass |

## 6.13 30k\_SISO\_60MHz

### 6.13.1 Test Result

| 5G NR n41 SCS=30kHz SISO 60MHz |                 |               |            |       |                  |                       |                          |         |
|--------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|--------------------------|---------|
| Modulation                     | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                          | Verdict |
|                                |                 |               |            |       |                  | Result                | Limit                    |         |
| DFT-s-OFDM PI/2 BPSK           | 2592.99         | Outer_Full    | 20         | LV    | -12.40           | -0.0048               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               |            | HV    | -7.00            | -0.0027               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | -30        | NV    | -12.20           | -0.0047               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | -20        | NV    | -8.90            | -0.0034               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | -10        | NV    | -12.20           | -0.0047               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 0          | NV    | -11.90           | -0.0046               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 10         | NV    | -7.80            | -0.0030               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 20         | NV    | -13.10           | -0.0051               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 30         | NV    | -13.60           | -0.0052               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 40         | NV    | -5.50            | -0.0021               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 50         | NV    | -10.90           | -0.0042               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
| DFT-s-OFDM QPSK                | 2592.99         | Outer_Full    | 20         | LV    | -9.70            | -0.0037               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               |            | HV    | -9.90            | -0.0038               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | -30        | NV    | -12.20           | -0.0047               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | -20        | NV    | -7.60            | -0.0029               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | -10        | NV    | -9.20            | -0.0035               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 0          | NV    | -9.70            | -0.0037               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 10         | NV    | -7.50            | -0.0029               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 20         | NV    | -11.00           | -0.0042               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 30         | NV    | -9.20            | -0.0035               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 40         | NV    | -9.70            | -0.0037               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 50         | NV    | -10.70           | -0.0041               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
| DFT-s-OFDM 16 QAM              | 2592.99         | Outer_Full    | 20         | LV    | -5.60            | -0.0022               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               |            | HV    | -6.80            | -0.0026               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | -30        | NV    | -8.40            | -0.0032               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | -20        | NV    | -8.00            | -0.0031               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | -10        | NV    | -6.80            | -0.0026               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 0          | NV    | -4.40            | -0.0017               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 10         | NV    | -6.50            | -0.0025               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 20         | NV    | -3.50            | -0.0013               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 30         | NV    | -5.00            | -0.0019               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 40         | NV    | -4.00            | -0.0015               | $\geq -2.5$ & $\leq 2.5$ | Pass    |



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|                    |         |            |         |                |        |         |                |      |
|--------------------|---------|------------|---------|----------------|--------|---------|----------------|------|
|                    |         |            | 50      | NV             | -4.70  | -0.0018 | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 64 QAM  | 2592.99 | Outer_Full | 20      | LV             | -7.80  | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -7.60  | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -7.00  | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -8.70  | -0.0034 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -4.40  | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -8.00  | -0.0031 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -4.60  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -5.80  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -7.00  | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -5.60  | -0.0022 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -7.10      | -0.0027 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| DFT-s-OFDM 256 QAM | 2592.99 | Outer_Full | 20      | LV             | -5.90  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -11.00 | -0.0042 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -6.30  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -2.90  | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -8.80  | -0.0034 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -5.70  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -4.80  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -9.40  | -0.0036 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -6.10  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -6.80  | -0.0026 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -7.50      | -0.0029 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM QPSK       | 2592.99 | Outer_Full | 20      | LV             | -8.50  | -0.0033 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -7.90  | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -7.30  | -0.0028 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -9.10  | -0.0035 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -8.00  | -0.0031 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -10.80 | -0.0042 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -6.40  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -11.50 | -0.0044 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -9.30  | -0.0036 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -9.00  | -0.0035 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -10.40     | -0.0040 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM 16 QAM     | 2592.99 | Outer_Full | 20      | LV             | -6.50  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -8.40  | -0.0032 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -10.00 | -0.0039 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -8.70  | -0.0034 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -10.70 | -0.0041 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -10.50 | -0.0040 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -11.10 | -0.0043 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -6.50  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -9.30  | -0.0036 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -8.90  | -0.0034 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -9.90      | -0.0038 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM 64 QAM     | 2592.99 | Outer_Full | 20      | LV             | -10.60 | -0.0041 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -7.80  | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -4.90  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -10.80 | -0.0042 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -8.50  | -0.0033 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -10.10 | -0.0039 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -8.70  | -0.0034 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -7.60  | -0.0029 | >=-2.5 & <=2.5 | Pass |
| 30                 | NV      | -8.40      | -0.0032 | >=-2.5 & <=2.5 | Pass   |         |                |      |



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|                 |         |            |     |    |        |         |                |      |
|-----------------|---------|------------|-----|----|--------|---------|----------------|------|
| CP-OFDM 256 QAM | 2592.99 | Outer_Full | 40  | NV | -12.60 | -0.0049 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 50  | NV | -10.00 | -0.0039 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 20  | LV | -5.70  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                 |         |            |     | HV | -9.60  | -0.0037 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -30 | NV | -9.60  | -0.0037 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -20 | NV | -10.10 | -0.0039 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -10 | NV | -7.40  | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 0   | NV | -6.40  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 10  | NV | -6.10  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 20  | NV | -8.70  | -0.0034 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 30  | NV | -7.70  | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 40  | NV | -9.10  | -0.0035 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 50  | NV | -8.40  | -0.0032 | >=-2.5 & <=2.5 | Pass |

## 6.14 30k\_SISO\_80MHz

### 6.14.1 Test Result

| 5G NR n41 SCS=30kHz SISO 80MHz |                 |               |            |       |                  |                       |                |         |
|--------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                     | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK           | 2592.99         | Outer_Full    | 20         | LV    | -15.60           | -0.0060               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -15.90           | -0.0061               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -10.00           | -0.0039               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -10.00           | -0.0039               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -9.80            | -0.0038               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -11.30           | -0.0044               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -10.90           | -0.0042               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -14.60           | -0.0056               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -10.60           | -0.0041               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | -11.60           | -0.0045               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                | 2592.99         | Outer_Full    | 50         | NV    | -9.90            | -0.0038               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | LV    | -7.10            | -0.0027               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -12.50           | -0.0048               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -9.70            | -0.0037               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -11.30           | -0.0044               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -7.10            | -0.0027               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -10.00           | -0.0039               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -7.00            | -0.0027               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -9.00            | -0.0035               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -9.60            | -0.0037               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM              | 2592.99         | Outer_Full    | 40         | NV    | -14.50           | -0.0056               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 50         | NV    | -8.90            | -0.0034               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | LV    | -11.80           | -0.0046               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -8.90            | -0.0034               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -6.20            | -0.0024               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -8.10            | -0.0031               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -7.10            | -0.0027               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -10.60           | -0.0041               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -4.00            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -8.80            | -0.0034               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -7.20            | -0.0028               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | -8.20            | -0.0032               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 50         | NV    | -6.30            | -0.0024               | >=-2.5 & <=2.5 | Pass    |



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|                    |         |            |         |                |        |         |                |      |
|--------------------|---------|------------|---------|----------------|--------|---------|----------------|------|
| DFT-s-OFDM 64 QAM  | 2592.99 | Outer_Full | 20      | LV             | -6.80  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -6.40  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -5.00  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -9.90  | -0.0038 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -5.50  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -5.00  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -5.30  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -6.10  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -7.70  | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -4.90  | -0.0019 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -3.20      | -0.0012 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| DFT-s-OFDM 256 QAM | 2592.99 | Outer_Full | 20      | LV             | -10.90 | -0.0042 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -8.50  | -0.0033 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -10.30 | -0.0040 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -8.20  | -0.0032 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -10.00 | -0.0039 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -9.60  | -0.0037 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -9.10  | -0.0035 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -10.40 | -0.0040 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -12.10 | -0.0047 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -9.60  | -0.0037 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -10.40     | -0.0040 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM QPSK       | 2592.99 | Outer_Full | 20      | LV             | -5.90  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -12.50 | -0.0048 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -9.40  | -0.0036 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -7.70  | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -5.80  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -8.10  | -0.0031 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -6.70  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -5.20  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -4.00  | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -4.90  | -0.0019 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -9.00      | -0.0035 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM 16 QAM     | 2592.99 | Outer_Full | 20      | LV             | -9.30  | -0.0036 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -6.80  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -11.40 | -0.0044 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -5.70  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -11.40 | -0.0044 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -9.10  | -0.0035 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -9.00  | -0.0035 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -7.70  | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -11.20 | -0.0043 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -6.00  | -0.0023 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -8.70      | -0.0034 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM 64 QAM     | 2592.99 | Outer_Full | 20      | LV             | -8.70  | -0.0034 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -8.10  | -0.0031 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -8.10  | -0.0031 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -7.30  | -0.0028 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -6.30  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -7.10  | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -5.70  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -6.70  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -6.00  | -0.0023 | >=-2.5 & <=2.5 | Pass |
| 40                 | NV      | -3.90      | -0.0015 | >=-2.5 & <=2.5 | Pass   |         |                |      |



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|                 |         |            |     |    |       |         |                          |      |
|-----------------|---------|------------|-----|----|-------|---------|--------------------------|------|
|                 |         |            | 50  | NV | -6.50 | -0.0025 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 256 QAM | 2592.99 | Outer_Full | 20  | LV | -6.70 | -0.0026 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            |     | HV | -7.40 | -0.0029 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -30 | NV | -9.60 | -0.0037 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -20 | NV | -7.90 | -0.0030 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -10 | NV | -6.00 | -0.0023 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 0   | NV | -5.80 | -0.0022 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -8.70 | -0.0034 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | -7.10 | -0.0027 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -8.50 | -0.0033 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -9.40 | -0.0036 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 50  | NV | -8.10 | -0.0031 | $\geq -2.5$ & $\leq 2.5$ | Pass |

## 6.15 30k\_SISO\_90MHz

## 6.15.1 Test Result

| 5G NR n41 SCS=30kHz SISO 90MHz |                 |               |            |       |                  |                       |                          |         |
|--------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|--------------------------|---------|
| Modulation                     | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                          | Verdict |
|                                |                 |               |            |       |                  | Result                | Limit                    |         |
| DFT-s-OFDM PI/2 BPSK           | 2592.99         | Outer_Full    | 20         | LV    | -11.60           | -0.0045               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               |            | HV    | -14.50           | -0.0056               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | -30        | NV    | -11.90           | -0.0046               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | -20        | NV    | -12.50           | -0.0048               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | -10        | NV    | -12.20           | -0.0047               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 0          | NV    | -8.40            | -0.0032               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 10         | NV    | -6.70            | -0.0026               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 20         | NV    | -3.50            | -0.0013               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 30         | NV    | -4.80            | -0.0019               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 40         | NV    | -8.00            | -0.0031               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
| DFT-s-OFDM QPSK                | 2592.99         | Outer_Full    | 20         | LV    | -8.80            | -0.0034               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               |            | HV    | -9.40            | -0.0036               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | -30        | NV    | -15.70           | -0.0061               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | -20        | NV    | -9.60            | -0.0037               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | -10        | NV    | -10.30           | -0.0040               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 0          | NV    | -10.30           | -0.0040               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 10         | NV    | -10.30           | -0.0040               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 20         | NV    | -10.70           | -0.0041               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 30         | NV    | -12.10           | -0.0047               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 40         | NV    | -13.40           | -0.0052               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
| DFT-s-OFDM 16 QAM              | 2592.99         | Outer_Full    | 20         | LV    | -11.60           | -0.0045               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               |            | HV    | -9.80            | -0.0038               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | -30        | NV    | -13.00           | -0.0050               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | -20        | NV    | -10.80           | -0.0042               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | -10        | NV    | -7.00            | -0.0027               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 0          | NV    | -9.30            | -0.0036               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 10         | NV    | -13.20           | -0.0051               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 20         | NV    | -7.70            | -0.0030               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 30         | NV    | -10.00           | -0.0039               | $\geq -2.5$ & $\leq 2.5$ | Pass    |
|                                |                 |               | 40         | NV    | -8.30            | -0.0032               | $\geq -2.5$ & $\leq 2.5$ | Pass    |



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|                    |         |            |         |                |        |         |                |      |
|--------------------|---------|------------|---------|----------------|--------|---------|----------------|------|
|                    |         |            | 50      | NV             | -8.70  | -0.0034 | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 64 QAM  | 2592.99 | Outer_Full | 20      | LV             | -14.80 | -0.0057 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -11.40 | -0.0044 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -10.40 | -0.0040 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -13.00 | -0.0050 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -8.60  | -0.0033 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -12.40 | -0.0048 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -8.00  | -0.0031 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -11.10 | -0.0043 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -11.90 | -0.0046 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -7.70  | -0.0030 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -13.20     | -0.0051 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| DFT-s-OFDM 256 QAM | 2592.99 | Outer_Full | 20      | LV             | -12.90 | -0.0050 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -11.30 | -0.0044 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -9.30  | -0.0036 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -11.50 | -0.0044 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -10.00 | -0.0039 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -13.70 | -0.0053 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -8.80  | -0.0034 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -7.50  | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -10.80 | -0.0042 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -12.20 | -0.0047 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -13.70     | -0.0053 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM QPSK       | 2592.99 | Outer_Full | 20      | LV             | -4.00  | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -4.70  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -2.40  | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -2.60  | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -2.60  | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -5.50  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -6.30  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -7.20  | -0.0028 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -1.30  | -0.0005 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -4.50  | -0.0017 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -8.90      | -0.0034 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM 16 QAM     | 2592.99 | Outer_Full | 20      | LV             | 2.50   | 0.0010  | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -2.90  | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -1.70  | -0.0007 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -4.90  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -2.90  | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -2.10  | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -6.40  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -4.70  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -3.50  | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -2.50  | -0.0010 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -3.70      | -0.0014 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM 64 QAM     | 2592.99 | Outer_Full | 20      | LV             | -4.30  | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -2.80  | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -2.40  | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -3.10  | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -4.90  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -6.40  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -3.90  | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -1.80  | -0.0007 | >=-2.5 & <=2.5 | Pass |
| 30                 | NV      | -4.10      | -0.0016 | >=-2.5 & <=2.5 | Pass   |         |                |      |



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|                 |         |            |     |    |        |         |                |      |
|-----------------|---------|------------|-----|----|--------|---------|----------------|------|
|                 |         |            | 40  | NV | -4.70  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 50  | NV | -5.40  | -0.0021 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 256 QAM | 2592.99 | Outer_Full | 20  | LV | -7.30  | -0.0028 | >=-2.5 & <=2.5 | Pass |
|                 |         |            |     | HV | -7.90  | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -30 | NV | -8.20  | -0.0032 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -20 | NV | -9.40  | -0.0036 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -10 | NV | -10.80 | -0.0042 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 0   | NV | -11.00 | -0.0042 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 10  | NV | -7.00  | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 20  | NV | -3.90  | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 30  | NV | -8.10  | -0.0031 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 40  | NV | -6.00  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 50  | NV | -10.20 | -0.0039 | >=-2.5 & <=2.5 | Pass |

## 6.16 30k\_SISO\_100MHz

### 6.16.1 Test Result

| 5G NR n41 SCS=30kHz SISO 100MHz |                 |               |            |       |                  |                       |                |         |
|---------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                      | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                 |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK            | 2592.99         | Outer_Full    | 20         | LV    | -14.20           | -0.0055               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -12.70           | -0.0049               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -11.80           | -0.0046               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -12.90           | -0.0050               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -12.50           | -0.0048               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -11.90           | -0.0046               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -13.50           | -0.0052               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -9.90            | -0.0038               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -7.60            | -0.0029               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -10.50           | -0.0040               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 50         | NV    | -12.20           | -0.0047               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                 | 2592.99         | Outer_Full    | 20         | LV    | -11.80           | -0.0046               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -11.90           | -0.0046               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -13.90           | -0.0054               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -12.30           | -0.0047               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -15.40           | -0.0059               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -14.80           | -0.0057               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -12.30           | -0.0047               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -10.40           | -0.0040               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -11.00           | -0.0042               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -16.70           | -0.0064               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 50         | NV    | -13.30           | -0.0051               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM               | 2592.99         | Outer_Full    | 20         | LV    | -10.00           | -0.0039               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -9.50            | -0.0037               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -11.10           | -0.0043               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -13.30           | -0.0051               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -17.10           | -0.0066               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -15.40           | -0.0059               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -7.80            | -0.0030               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -11.30           | -0.0044               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -7.10            | -0.0027               | >=-2.5 & <=2.5 | Pass    |



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|                    |         |            |     |    |        |         |                |      |
|--------------------|---------|------------|-----|----|--------|---------|----------------|------|
|                    |         |            | 40  | NV | -12.70 | -0.0049 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -6.40  | -0.0025 | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 64 QAM  | 2592.99 | Outer_Full | 20  | LV | -10.20 | -0.0039 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -10.80 | -0.0042 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -9.90  | -0.0038 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -12.00 | -0.0046 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -12.60 | -0.0049 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -15.10 | -0.0058 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -10.40 | -0.0040 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -14.20 | -0.0055 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -10.90 | -0.0042 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -11.60 | -0.0045 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -13.30 | -0.0051 | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 256 QAM | 2592.99 | Outer_Full | 20  | LV | -10.40 | -0.0040 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -12.20 | -0.0047 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -9.30  | -0.0036 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -14.50 | -0.0056 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -12.70 | -0.0049 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -11.20 | -0.0043 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -14.00 | -0.0054 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -9.00  | -0.0035 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -11.80 | -0.0046 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -10.70 | -0.0041 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -10.40 | -0.0040 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM QPSK       | 2592.99 | Outer_Full | 20  | LV | -9.30  | -0.0036 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -7.60  | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -8.00  | -0.0031 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -8.00  | -0.0031 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -9.50  | -0.0037 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -10.70 | -0.0041 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -10.70 | -0.0041 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -8.20  | -0.0032 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -8.10  | -0.0031 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -8.70  | -0.0034 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -6.80  | -0.0026 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 16 QAM     | 2592.99 | Outer_Full | 20  | LV | -7.90  | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -8.50  | -0.0033 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -5.40  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -13.00 | -0.0050 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -10.60 | -0.0041 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -8.60  | -0.0033 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -8.40  | -0.0032 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -12.80 | -0.0049 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -7.50  | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -3.80  | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -12.10 | -0.0047 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 64 QAM     | 2592.99 | Outer_Full | 20  | LV | -8.30  | -0.0032 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -7.50  | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -8.00  | -0.0031 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -8.30  | -0.0032 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -7.70  | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -7.80  | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -9.70  | -0.0037 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -6.50  | -0.0025 | >=-2.5 & <=2.5 | Pass |



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|                 |         |            |     |    |        |         |                          |      |
|-----------------|---------|------------|-----|----|--------|---------|--------------------------|------|
|                 |         |            | 30  | NV | -11.00 | -0.0042 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -8.80  | -0.0034 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 50  | NV | -8.10  | -0.0031 | $\geq -2.5$ & $\leq 2.5$ | Pass |
| CP-OFDM 256 QAM | 2592.99 | Outer_Full | 20  | LV | -7.00  | -0.0027 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            |     | HV | -5.30  | -0.0020 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -30 | NV | -6.70  | -0.0026 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -20 | NV | -6.00  | -0.0023 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | -10 | NV | -3.00  | -0.0012 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 0   | NV | -5.40  | -0.0021 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 10  | NV | -5.40  | -0.0021 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 20  | NV | -7.80  | -0.0030 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 30  | NV | -5.80  | -0.0022 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 40  | NV | -6.80  | -0.0026 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |         |            | 50  | NV | -7.80  | -0.0030 | $\geq -2.5$ & $\leq 2.5$ | Pass |



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## 7. n66 Frequency Stability

### 7.1 15k\_SISO\_5MHz

#### 7.1.1 Test Result

| 5G NR n66 SCS=15kHz SISO 5MHz |                 |               |            |       |                  |                       |                |         |
|-------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                    | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                               |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK          | 1745            | Outer_Full    | 20         | LV    | -3.80            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               |            | HV    | -3.40            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               | -30        | NV    | -2.00            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               |            | NV    | -4.00            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               | -10        | NV    | -4.70            | -0.0027               | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               |            | NV    | -1.50            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               | 0          | NV    | -2.80            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               |            | NV    | -1.80            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               | 30         | NV    | -2.70            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               |            | NV    | -4.60            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK               | 1745            | Outer_Full    | 20         | LV    | 2.90             | 0.0017                | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               |            | HV    | 1.60             | 0.0009                | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               | -30        | NV    | -5.00            | -0.0029               | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               |            | NV    | -4.00            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               | -10        | NV    | -0.60            | -0.0003               | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               |            | NV    | 1.20             | 0.0007                | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               | 0          | NV    | -2.10            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               |            | NV    | -2.70            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               | 30         | NV    | -0.60            | -0.0003               | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               |            | NV    | -2.80            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM             | 1745            | Outer_Full    | 20         | LV    | -2.60            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               |            | HV    | -1.60            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               | -30        | NV    | -0.50            | -0.0003               | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               |            | NV    | 0.70             | 0.0004                | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               | -10        | NV    | -1.50            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               |            | NV    | -1.00            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               | 0          | NV    | -2.50            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               |            | NV    | 1.90             | 0.0011                | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               | 30         | NV    | -1.90            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               |            | NV    | -1.50            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 64 QAM             | 1745            | Outer_Full    | 20         | LV    | 3.30             | 0.0019                | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               |            | HV    | 4.90             | 0.0028                | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               | -30        | NV    | 2.70             | 0.0015                | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               |            | NV    | 4.10             | 0.0023                | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               | -10        | NV    | 2.30             | 0.0013                | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               |            | NV    | 4.50             | 0.0026                | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               | 0          | NV    | 3.20             | 0.0018                | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               |            | NV    | 1.60             | 0.0009                | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               | 30         | NV    | 3.50             | 0.0020                | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               |            | NV    | 4.40             | 0.0025                | >=-2.5 & <=2.5 | Pass    |
|                               |                 |               | 50         | NV    | 1.60             | 0.0009                | >=-2.5 & <=2.5 | Pass    |



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|                    |      |            |     |    |       |         |                |      |
|--------------------|------|------------|-----|----|-------|---------|----------------|------|
| DFT-s-OFDM 256 QAM | 1745 | Outer_Full | 20  | LV | 3.10  | 0.0018  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | 2.90  | 0.0017  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | 3.10  | 0.0018  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | 3.40  | 0.0019  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | 3.80  | 0.0022  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | 2.80  | 0.0016  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | 2.20  | 0.0013  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | 3.80  | 0.0022  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | 3.20  | 0.0018  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | 1.20  | 0.0007  | >=-2.5 & <=2.5 | Pass |
| CP-OFDM QPSK       | 1745 | Outer_Full | 50  | NV | -0.50 | -0.0003 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | -2.10 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -2.10 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -1.80 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -3.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | -2.10 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -2.70 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -3.20 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | -2.40 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | -2.20 | -0.0013 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 16 QAM     | 1745 | Outer_Full | 40  | NV | -3.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -2.30 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | -1.90 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | 1.20  | 0.0007  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -3.40 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -3.30 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | -2.60 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | 1.10  | 0.0006  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -2.60 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | -2.40 | -0.0014 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 64 QAM     | 1745 | Outer_Full | 30  | NV | -2.80 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | -1.60 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -2.40 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | -2.90 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -1.60 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -2.10 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -1.10 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | -1.20 | -0.0007 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -2.50 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | 1.10  | 0.0006  | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 256 QAM    | 1745 | Outer_Full | 20  | NV | -1.60 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | -0.80 | -0.0005 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | -1.80 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -2.20 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | -2.80 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -2.80 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -2.20 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | 0.80  | 0.0005  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | -2.30 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -0.60 | -0.0003 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -1.30 | -0.0007 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | -3.10 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | -2.30 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | -0.60 | -0.0003 | >=-2.5 & <=2.5 | Pass |



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|  |  |  |    |    |       |         |                |      |
|--|--|--|----|----|-------|---------|----------------|------|
|  |  |  | 50 | NV | -2.20 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|--|--|--|----|----|-------|---------|----------------|------|

## 7.2 15k\_SISO\_10MHz

### 7.2.1 Test Result

| 5G NR n66 SCS=15kHz SISO 10MHz |                 |               |            |                |                  |                       |                |         |
|--------------------------------|-----------------|---------------|------------|----------------|------------------|-----------------------|----------------|---------|
| Modulation                     | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt.          | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                |                 |               |            |                |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK           | 1745            | Outer_Full    | 20         | LV             | 3.60             | 0.0021                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV             | 2.60             | 0.0015                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV             | 3.20             | 0.0018                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV             | 3.80             | 0.0022                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV             | 4.50             | 0.0026                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV             | 4.00             | 0.0023                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV             | 4.40             | 0.0025                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV             | 4.90             | 0.0028                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV             | 4.20             | 0.0024                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV             | 5.10             | 0.0029                | >=-2.5 & <=2.5 | Pass    |
| 50                             | NV              | 3.90          | 0.0022     | >=-2.5 & <=2.5 | Pass             |                       |                |         |
| DFT-s-OFDM QPSK                | 1745            | Outer_Full    | 20         | LV             | -4.80            | -0.0028               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV             | -3.70            | -0.0021               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV             | -2.10            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV             | -2.50            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV             | -1.40            | -0.0008               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV             | -4.10            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV             | -2.10            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV             | -1.00            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV             | -3.10            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV             | -2.60            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
| 50                             | NV              | -4.50         | -0.0026    | >=-2.5 & <=2.5 | Pass             |                       |                |         |
| DFT-s-OFDM 16 QAM              | 1745            | Outer_Full    | 20         | LV             | -3.30            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV             | -4.30            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV             | -3.90            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV             | -2.30            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV             | -1.50            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV             | -1.60            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV             | -1.00            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV             | -2.90            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV             | -2.40            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV             | -2.20            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
| 50                             | NV              | -4.00         | -0.0023    | >=-2.5 & <=2.5 | Pass             |                       |                |         |
| DFT-s-OFDM 64 QAM              | 1745            | Outer_Full    | 20         | LV             | -3.60            | -0.0021               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV             | -4.00            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV             | -2.80            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV             | -4.20            | -0.0024               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV             | -2.40            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV             | -2.90            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV             | -4.60            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV             | -4.00            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV             | -2.90            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
| 40                             | NV              | -1.90         | -0.0011    | >=-2.5 & <=2.5 | Pass             |                       |                |         |



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|                    |      |            |         |                |       |         |                |      |
|--------------------|------|------------|---------|----------------|-------|---------|----------------|------|
|                    |      |            | 50      | NV             | -2.60 | -0.0015 | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 256 QAM | 1745 | Outer_Full | 20      | LV             | -2.30 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |         | HV             | -5.10 | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30     | NV             | -2.50 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20     | NV             | -3.40 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10     | NV             | -3.70 | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0       | NV             | -2.50 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10      | NV             | -1.50 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20      | NV             | -0.80 | -0.0005 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30      | NV             | -4.30 | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40      | NV             | -2.70 | -0.0015 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV   | -4.50      | -0.0026 | >=-2.5 & <=2.5 | Pass  |         |                |      |
| CP-OFDM QPSK       | 1745 | Outer_Full | 20      | LV             | 1.30  | 0.0007  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |         | HV             | 0.80  | 0.0005  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30     | NV             | -0.90 | -0.0005 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20     | NV             | -1.00 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10     | NV             | -1.60 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0       | NV             | -0.90 | -0.0005 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10      | NV             | -1.00 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20      | NV             | -1.00 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30      | NV             | -1.80 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40      | NV             | -1.30 | -0.0007 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV   | -0.50      | -0.0003 | >=-2.5 & <=2.5 | Pass  |         |                |      |
| CP-OFDM 16 QAM     | 1745 | Outer_Full | 20      | LV             | 1.00  | 0.0006  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |         | HV             | 0.50  | 0.0003  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30     | NV             | 2.30  | 0.0013  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20     | NV             | 1.90  | 0.0011  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10     | NV             | 2.60  | 0.0015  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0       | NV             | -1.30 | -0.0007 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10      | NV             | -1.40 | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20      | NV             | 1.70  | 0.0010  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30      | NV             | 1.30  | 0.0007  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40      | NV             | -1.90 | -0.0011 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV   | -0.80      | -0.0005 | >=-2.5 & <=2.5 | Pass  |         |                |      |
| CP-OFDM 64 QAM     | 1745 | Outer_Full | 20      | LV             | -0.70 | -0.0004 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |         | HV             | 1.10  | 0.0006  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30     | NV             | -2.10 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20     | NV             | -0.30 | -0.0002 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10     | NV             | 1.70  | 0.0010  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0       | NV             | -0.80 | -0.0005 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10      | NV             | 1.80  | 0.0010  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20      | NV             | 1.00  | 0.0006  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30      | NV             | -1.60 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40      | NV             | 0.40  | 0.0002  | >=-2.5 & <=2.5 | Pass |
| 50                 | NV   | -0.80      | -0.0005 | >=-2.5 & <=2.5 | Pass  |         |                |      |
| CP-OFDM 256 QAM    | 1745 | Outer_Full | 20      | LV             | 3.10  | 0.0018  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |         | HV             | 3.80  | 0.0022  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30     | NV             | 3.10  | 0.0018  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20     | NV             | 3.10  | 0.0018  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10     | NV             | 3.00  | 0.0017  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0       | NV             | 2.80  | 0.0016  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10      | NV             | 3.10  | 0.0018  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20      | NV             | 1.30  | 0.0007  | >=-2.5 & <=2.5 | Pass |
| 30                 | NV   | 3.10       | 0.0018  | >=-2.5 & <=2.5 | Pass  |         |                |      |



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|  |  |    |    |      |        |                |      |
|--|--|----|----|------|--------|----------------|------|
|  |  | 40 | NV | 4.70 | 0.0027 | >=-2.5 & <=2.5 | Pass |
|  |  | 50 | NV | 3.00 | 0.0017 | >=-2.5 & <=2.5 | Pass |

## 7.3 15k\_SISO\_15MHz

### 7.3.1 Test Result

| 5G NR n66 SCS=15kHz SISO 15MHz |                 |               |            |       |                  |                       |                |         |
|--------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                     | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK           | 1745            | Outer_Full    | 20         | LV    | 0.80             | 0.0005                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -2.70            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -0.80            | -0.0005               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -3.50            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -3.30            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -2.10            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -3.00            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -1.70            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -2.20            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | -2.90            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 50         | NV    | -2.40            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                | 1745            | Outer_Full    | 20         | LV    | 2.70             | 0.0015                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -3.70            | -0.0021               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -2.40            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -3.40            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -2.30            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -2.70            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -3.80            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -2.20            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -0.60            | -0.0003               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | -4.60            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 50         | NV    | -4.20            | -0.0024               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM              | 1745            | Outer_Full    | 20         | LV    | -4.20            | -0.0024               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -3.50            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -4.50            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -5.40            | -0.0031               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -2.30            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -1.80            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -2.50            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -2.20            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -1.60            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | -2.40            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 50         | NV    | -2.70            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 64 QAM              | 1745            | Outer_Full    | 20         | LV    | -1.10            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | 1.70             | 0.0010                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -3.40            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -3.90            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -4.00            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -3.00            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -3.40            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -2.70            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -5.00            | -0.0029               | >=-2.5 & <=2.5 | Pass    |



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|                    |      |            |         |                |       |         |                |      |
|--------------------|------|------------|---------|----------------|-------|---------|----------------|------|
|                    |      |            | 40      | NV             | -3.60 | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50      | NV             | 1.00  | 0.0006  | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 256 QAM | 1745 | Outer_Full | 20      | LV             | 1.00  | 0.0006  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |         | HV             | -1.50 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30     | NV             | 0.20  | 0.0001  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20     | NV             | -1.50 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10     | NV             | -0.90 | -0.0005 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0       | NV             | 1.10  | 0.0006  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10      | NV             | -1.10 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20      | NV             | 2.00  | 0.0011  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30      | NV             | 0.70  | 0.0004  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40      | NV             | -2.20 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50      | NV             | -0.50 | -0.0003 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM QPSK       | 1745 | Outer_Full | 20      | LV             | 2.10  | 0.0012  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |         | HV             | 1.50  | 0.0009  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30     | NV             | -1.50 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20     | NV             | -1.40 | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10     | NV             | 2.00  | 0.0011  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0       | NV             | 1.70  | 0.0010  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10      | NV             | 0.70  | 0.0004  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20      | NV             | 0.70  | 0.0004  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30      | NV             | 0.80  | 0.0005  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40      | NV             | 1.70  | 0.0010  | >=-2.5 & <=2.5 | Pass |
| 50                 | NV   | 1.60       | 0.0009  | >=-2.5 & <=2.5 | Pass  |         |                |      |
| CP-OFDM 16 QAM     | 1745 | Outer_Full | 20      | LV             | 0.70  | 0.0004  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |         | HV             | 1.20  | 0.0007  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30     | NV             | 0.60  | 0.0003  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20     | NV             | 1.80  | 0.0010  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10     | NV             | 2.00  | 0.0011  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0       | NV             | 1.80  | 0.0010  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10      | NV             | 1.80  | 0.0010  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20      | NV             | 1.70  | 0.0010  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30      | NV             | 0.80  | 0.0005  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40      | NV             | 1.50  | 0.0009  | >=-2.5 & <=2.5 | Pass |
| 50                 | NV   | 1.80       | 0.0010  | >=-2.5 & <=2.5 | Pass  |         |                |      |
| CP-OFDM 64 QAM     | 1745 | Outer_Full | 20      | LV             | -1.30 | -0.0007 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |         | HV             | -0.80 | -0.0005 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30     | NV             | -2.00 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20     | NV             | 2.80  | 0.0016  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10     | NV             | 0.50  | 0.0003  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0       | NV             | 2.60  | 0.0015  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10      | NV             | 1.00  | 0.0006  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20      | NV             | 0.70  | 0.0004  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30      | NV             | 1.60  | 0.0009  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40      | NV             | 1.00  | 0.0006  | >=-2.5 & <=2.5 | Pass |
| 50                 | NV   | 0.60       | 0.0003  | >=-2.5 & <=2.5 | Pass  |         |                |      |
| CP-OFDM 256 QAM    | 1745 | Outer_Full | 20      | LV             | -3.30 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |         | HV             | -1.90 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30     | NV             | -2.30 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20     | NV             | -1.00 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10     | NV             | -3.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0       | NV             | -1.40 | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10      | NV             | -1.40 | -0.0008 | >=-2.5 & <=2.5 | Pass |
| 20                 | NV   | -1.30      | -0.0007 | >=-2.5 & <=2.5 | Pass  |         |                |      |



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|  |  |    |    |       |         |                |      |
|--|--|----|----|-------|---------|----------------|------|
|  |  | 30 | NV | -1.40 | -0.0008 | >=-2.5 & <=2.5 | Pass |
|  |  | 40 | NV | -1.70 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|  |  | 50 | NV | -2.50 | -0.0014 | >=-2.5 & <=2.5 | Pass |

## 7.4 15k\_SISO\_20MHz

### 7.4.1 Test Result

| 5G NR n66 SCS=15kHz SISO 20MHz |                 |               |            |       |                  |                       |                |         |
|--------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                     | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK           | 1745            | Outer_Full    | 20         | LV    | 1.00             | 0.0006                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | 1.60             | 0.0009                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | 2.30             | 0.0013                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -0.50            | -0.0003               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -2.10            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | 2.00             | 0.0011                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | 1.10             | 0.0006                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -0.90            | -0.0005               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -2.10            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | 2.40             | 0.0014                | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                | 1745            | Outer_Full    | 20         | LV    | -1.60            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -3.10            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -3.80            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -1.30            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -3.20            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -2.20            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -1.40            | -0.0008               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -3.90            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -1.20            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | -2.20            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM              | 1745            | Outer_Full    | 20         | LV    | -1.70            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -2.80            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -2.90            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -2.00            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -2.80            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -2.20            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -1.90            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | 1.20             | 0.0007                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | 1.50             | 0.0009                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | -2.40            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 64 QAM              | 1745            | Outer_Full    | 20         | LV    | -3.90            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -1.00            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -0.80            | -0.0005               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -4.10            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -2.20            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -2.10            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -3.00            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -0.80            | -0.0005               | >=-2.5 & <=2.5 | Pass    |



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|                    |      |            |     |    |       |         |                |      |
|--------------------|------|------------|-----|----|-------|---------|----------------|------|
|                    |      |            | 30  | NV | -3.10 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | -0.80 | -0.0005 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -2.40 | -0.0014 | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 256 QAM | 1745 | Outer_Full | 20  | LV | 0.60  | 0.0003  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -0.40 | -0.0002 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | 3.00  | 0.0017  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -3.20 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | -2.40 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -1.90 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | 3.10  | 0.0018  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | -2.80 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | -2.90 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | 1.70  | 0.0010  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -1.60 | -0.0009 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM QPSK       | 1745 | Outer_Full | 20  | LV | 3.00  | 0.0017  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | 2.50  | 0.0014  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | 3.80  | 0.0022  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | 3.80  | 0.0022  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | 2.60  | 0.0015  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | 1.20  | 0.0007  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | 4.90  | 0.0028  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | 2.50  | 0.0014  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | 3.50  | 0.0020  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | 3.30  | 0.0019  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | 1.40  | 0.0008  | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 16 QAM     | 1745 | Outer_Full | 20  | LV | 2.70  | 0.0015  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | 3.10  | 0.0018  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | 1.90  | 0.0011  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | 3.90  | 0.0022  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | 2.50  | 0.0014  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | 0.60  | 0.0003  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | 2.70  | 0.0015  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | 3.80  | 0.0022  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | 2.40  | 0.0014  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | 5.50  | 0.0032  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | 1.40  | 0.0008  | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 64 QAM     | 1745 | Outer_Full | 20  | LV | 3.70  | 0.0021  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | 3.50  | 0.0020  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | 2.00  | 0.0011  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | 3.60  | 0.0021  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | 3.90  | 0.0022  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | 2.60  | 0.0015  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | 2.30  | 0.0013  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | 2.00  | 0.0011  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | 3.20  | 0.0018  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | 2.40  | 0.0014  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | 3.10  | 0.0018  | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 256 QAM    | 1745 | Outer_Full | 20  | LV | -0.70 | -0.0004 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -3.20 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -3.20 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -2.20 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | -3.10 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -1.60 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -2.40 | -0.0014 | >=-2.5 & <=2.5 | Pass |



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|  |  |  |    |    |       |         |                |      |
|--|--|--|----|----|-------|---------|----------------|------|
|  |  |  | 20 | NV | -1.70 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 30 | NV | -3.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 40 | NV | -2.20 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 50 | NV | -1.50 | -0.0009 | >=-2.5 & <=2.5 | Pass |

## 7.5 15k\_SISO\_25MHz

### 7.5.1 Test Result

| 5G NR n66 SCS=15kHz SISO 25MHz |                 |               |            |       |                  |                       |                |         |
|--------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                     | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK           | 1745            | Outer_Full    | 20         | LV    | -1.80            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | 1.90             | 0.0011                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | 1.70             | 0.0010                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | 0.60             | 0.0003                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | 1.10             | 0.0006                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | 4.00             | 0.0023                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | 2.10             | 0.0012                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | 2.00             | 0.0011                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -2.40            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | 1.00             | 0.0006                | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                | 1745            | Outer_Full    | 20         | LV    | -2.90            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | 0.60             | 0.0003                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | 0.90             | 0.0005                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | 1.80             | 0.0010                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | 3.10             | 0.0018                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | 2.60             | 0.0015                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -0.70            | -0.0004               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | 2.30             | 0.0013                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | 1.70             | 0.0010                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | 2.80             | 0.0016                | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM              | 1745            | Outer_Full    | 20         | LV    | 2.40             | 0.0014                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | 1.50             | 0.0009                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | 2.30             | 0.0013                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | 0.90             | 0.0005                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | 4.10             | 0.0023                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | 4.90             | 0.0028                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | 5.20             | 0.0030                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | 2.80             | 0.0016                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | 2.00             | 0.0011                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | 4.00             | 0.0023                | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 64 QAM              | 1745            | Outer_Full    | 20         | LV    | 4.00             | 0.0023                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | 2.90             | 0.0017                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | 1.40             | 0.0008                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | 3.40             | 0.0019                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | 3.10             | 0.0018                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | 5.20             | 0.0030                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | 2.60             | 0.0015                | >=-2.5 & <=2.5 | Pass    |



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|                    |      |            |     |    |       |         |                |      |
|--------------------|------|------------|-----|----|-------|---------|----------------|------|
|                    |      |            | 20  | NV | 3.00  | 0.0017  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | 2.40  | 0.0014  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | 2.90  | 0.0017  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | 3.80  | 0.0022  | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 256 QAM | 1745 | Outer_Full | 20  | LV | -0.20 | -0.0001 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | 1.50  | 0.0009  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | 1.00  | 0.0006  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | 1.20  | 0.0007  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | -2.00 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -1.70 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -2.50 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | 1.40  | 0.0008  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | -0.90 | -0.0005 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | 1.80  | 0.0010  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -2.10 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     |    |       |         |                |      |
| CP-OFDM QPSK       | 1745 | Outer_Full | 20  | LV | -0.40 | -0.0002 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -2.80 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | 1.20  | 0.0007  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -3.30 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | 0.90  | 0.0005  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | 1.80  | 0.0010  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -2.10 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | 2.00  | 0.0011  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | -2.30 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | 2.10  | 0.0012  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | 2.40  | 0.0014  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     |    |       |         |                |      |
| CP-OFDM 16 QAM     | 1745 | Outer_Full | 20  | LV | 0.60  | 0.0003  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -1.20 | -0.0007 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | 0.50  | 0.0003  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | 0.80  | 0.0005  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | -1.90 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | 0.40  | 0.0002  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -2.20 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | 2.20  | 0.0013  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | 1.20  | 0.0007  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | -0.90 | -0.0005 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -1.00 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     |    |       |         |                |      |
| CP-OFDM 64 QAM     | 1745 | Outer_Full | 20  | LV | -2.30 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | 1.20  | 0.0007  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -2.70 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | 1.30  | 0.0007  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | -1.10 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -1.60 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -3.10 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | 0.70  | 0.0004  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | 0.80  | 0.0005  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | -1.90 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -0.90 | -0.0005 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     |    |       |         |                |      |
| CP-OFDM 256 QAM    | 1745 | Outer_Full | 20  | LV | -1.30 | -0.0007 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | 2.30  | 0.0013  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -4.20 | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -0.80 | -0.0005 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | 1.30  | 0.0007  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -3.30 | -0.0019 | >=-2.5 & <=2.5 | Pass |



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|  |  |  |    |    |       |         |                |      |
|--|--|--|----|----|-------|---------|----------------|------|
|  |  |  | 10 | NV | -2.30 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 20 | NV | 0.30  | 0.0002  | >=-2.5 & <=2.5 | Pass |
|  |  |  | 30 | NV | 0.50  | 0.0003  | >=-2.5 & <=2.5 | Pass |
|  |  |  | 40 | NV | -2.30 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 50 | NV | 1.00  | 0.0006  | >=-2.5 & <=2.5 | Pass |

## 7.6 15k SISO 30MHz

### 7.6.1 Test Result

| 5G NR n66 SCS=15kHz SISO 30MHz |                 |               |            |                |                  |                       |                |         |
|--------------------------------|-----------------|---------------|------------|----------------|------------------|-----------------------|----------------|---------|
| Modulation                     | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt.          | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                |                 |               |            |                |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK           | 1745            | Outer_Full    | 20         | LV             | 1.20             | 0.0007                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV             | 2.40             | 0.0014                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV             | -1.50            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV             | -2.90            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV             | -4.30            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV             | -0.70            | -0.0004               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV             | -2.40            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV             | 3.10             | 0.0018                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV             | -1.50            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV             | 1.40             | 0.0008                | >=-2.5 & <=2.5 | Pass    |
| 50                             | NV              | -1.90         | -0.0011    | >=-2.5 & <=2.5 | Pass             |                       |                |         |
| DFT-s-OFDM QPSK                | 1745            | Outer_Full    | 20         | LV             | -3.10            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV             | -2.00            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV             | -1.30            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV             | -4.70            | -0.0027               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV             | -2.40            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV             | 0.50             | 0.0003                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV             | -1.00            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV             | 2.10             | 0.0012                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV             | 2.20             | 0.0013                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV             | -2.10            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
| 50                             | NV              | 1.10          | 0.0006     | >=-2.5 & <=2.5 | Pass             |                       |                |         |
| DFT-s-OFDM 16 QAM              | 1745            | Outer_Full    | 20         | LV             | -1.30            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV             | -1.70            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV             | -1.10            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV             | -0.80            | -0.0005               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV             | -1.40            | -0.0008               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV             | 1.40             | 0.0008                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV             | -2.00            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV             | -2.40            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV             | -2.50            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV             | -2.00            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
| 50                             | NV              | -2.30         | -0.0013    | >=-2.5 & <=2.5 | Pass             |                       |                |         |
| DFT-s-OFDM 64 QAM              | 1745            | Outer_Full    | 20         | LV             | -2.10            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV             | 2.10             | 0.0012                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV             | 3.70             | 0.0021                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV             | -2.10            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV             | -1.00            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
| 0                              | NV              | -1.50         | -0.0009    | >=-2.5 & <=2.5 | Pass             |                       |                |         |



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|                    |       |            |              |                |            |         |                |       |
|--------------------|-------|------------|--------------|----------------|------------|---------|----------------|-------|
|                    |       |            | 10           | NV             | -0.60      | -0.0003 | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | 20           | NV             | 0.50       | 0.0003  | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | 30           | NV             | 1.10       | 0.0006  | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | 40           | NV             | 1.40       | 0.0008  | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | 50           | NV             | 1.40       | 0.0008  | >=-2.5 & <=2.5 | Pass  |
| DFT-s-OFDM 256 QAM | 1745  | Outer_Full | 20           | LV             | -1.20      | -0.0007 | >=-2.5 & <=2.5 | Pass  |
|                    |       |            |              | HV             | 2.80       | 0.0016  | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | -30          | NV             | -1.20      | -0.0007 | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | -20          | NV             | -1.30      | -0.0007 | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | -10          | NV             | -1.50      | -0.0009 | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | 0            | NV             | 2.80       | 0.0016  | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | 10           | NV             | -1.40      | -0.0008 | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | 20           | NV             | 1.60       | 0.0009  | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | 30           | NV             | 1.00       | 0.0006  | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | 40           | NV             | 1.20       | 0.0007  | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | 50           | NV             | 1.70       | 0.0010  | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | CP-OFDM QPSK | 1745           | Outer_Full | 20      | LV             | -3.90 |
| HV                 | -0.50 | -0.0003    |              |                |            |         | >=-2.5 & <=2.5 | Pass  |
| -30                | NV    | -2.90      |              |                |            | -0.0017 | >=-2.5 & <=2.5 | Pass  |
| -20                | NV    | -2.60      |              |                |            | -0.0015 | >=-2.5 & <=2.5 | Pass  |
| -10                | NV    | -3.00      |              |                |            | -0.0017 | >=-2.5 & <=2.5 | Pass  |
| 0                  | NV    | -6.00      |              |                |            | -0.0034 | >=-2.5 & <=2.5 | Pass  |
| 10                 | NV    | 1.80       |              |                |            | 0.0010  | >=-2.5 & <=2.5 | Pass  |
| 20                 | NV    | 0.70       |              |                |            | 0.0004  | >=-2.5 & <=2.5 | Pass  |
| 30                 | NV    | 0.20       |              |                |            | 0.0001  | >=-2.5 & <=2.5 | Pass  |
| 40                 | NV    | -0.40      |              |                |            | -0.0002 | >=-2.5 & <=2.5 | Pass  |
| 50                 | NV    | -0.90      | -0.0005      | >=-2.5 & <=2.5 | Pass       |         |                |       |
| CP-OFDM 16 QAM     | 1745  | Outer_Full | 20           | LV             | -0.70      | -0.0004 | >=-2.5 & <=2.5 | Pass  |
|                    |       |            |              | HV             | 2.50       | 0.0014  | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | -30          | NV             | -0.60      | -0.0003 | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | -20          | NV             | -1.20      | -0.0007 | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | -10          | NV             | 1.20       | 0.0007  | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | 0            | NV             | 1.10       | 0.0006  | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | 10           | NV             | -0.50      | -0.0003 | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | 20           | NV             | -0.90      | -0.0005 | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | 30           | NV             | -1.30      | -0.0007 | >=-2.5 & <=2.5 | Pass  |
| 40                 | NV    | 0.80       | 0.0005       | >=-2.5 & <=2.5 | Pass       |         |                |       |
| 50                 | NV    | 0.60       | 0.0003       | >=-2.5 & <=2.5 | Pass       |         |                |       |
| CP-OFDM 64 QAM     | 1745  | Outer_Full | 20           | LV             | 1.60       | 0.0009  | >=-2.5 & <=2.5 | Pass  |
|                    |       |            |              | HV             | 2.40       | 0.0014  | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | -30          | NV             | -1.90      | -0.0011 | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | -20          | NV             | -2.60      | -0.0015 | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | -10          | NV             | -1.50      | -0.0009 | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | 0            | NV             | 1.20       | 0.0007  | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | 10           | NV             | -1.30      | -0.0007 | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | 20           | NV             | -1.90      | -0.0011 | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | 30           | NV             | 1.60       | 0.0009  | >=-2.5 & <=2.5 | Pass  |
| 40                 | NV    | 0.70       | 0.0004       | >=-2.5 & <=2.5 | Pass       |         |                |       |
| 50                 | NV    | -1.50      | -0.0009      | >=-2.5 & <=2.5 | Pass       |         |                |       |
| CP-OFDM 256 QAM    | 1745  | Outer_Full | 20           | LV             | -3.50      | -0.0020 | >=-2.5 & <=2.5 | Pass  |
|                    |       |            |              | HV             | -4.00      | -0.0023 | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | -30          | NV             | -3.30      | -0.0019 | >=-2.5 & <=2.5 | Pass  |
|                    |       |            | -20          | NV             | -2.90      | -0.0017 | >=-2.5 & <=2.5 | Pass  |
| -10                | NV    | -4.70      | -0.0027      | >=-2.5 & <=2.5 | Pass       |         |                |       |



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|  |  |    |    |       |         |                |      |
|--|--|----|----|-------|---------|----------------|------|
|  |  | 0  | NV | -3.90 | -0.0022 | >=-2.5 & <=2.5 | Pass |
|  |  | 10 | NV | -2.80 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|  |  | 20 | NV | -2.30 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|  |  | 30 | NV | -4.30 | -0.0025 | >=-2.5 & <=2.5 | Pass |
|  |  | 40 | NV | -3.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|  |  | 50 | NV | -2.40 | -0.0014 | >=-2.5 & <=2.5 | Pass |

## 7.7 15k\_SISO\_40MHz

### 7.7.1 Test Result

| 5G NR n66 SCS=15kHz SISO 40MHz |                 |               |            |       |                  |                       |                |         |
|--------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                     | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK           | 1745            | Outer_Full    | 20         | LV    | 2.40             | 0.0014                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -0.80            | -0.0005               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | 2.60             | 0.0015                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | 1.50             | 0.0009                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -4.60            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -5.90            | -0.0034               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -5.20            | -0.0030               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -3.80            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -6.00            | -0.0034               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | -5.30            | -0.0030               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                | 1745            | Outer_Full    | 20         | LV    | 0.50             | 0.0003                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | 1.50             | 0.0009                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | 0.60             | 0.0003                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | 1.30             | 0.0007                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | 1.90             | 0.0011                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -2.60            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | 0.90             | 0.0005                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -5.90            | -0.0034               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -5.70            | -0.0033               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | -5.40            | -0.0031               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM              | 1745            | Outer_Full    | 20         | LV    | -7.90            | -0.0045               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -4.60            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -6.00            | -0.0034               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -4.80            | -0.0028               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -5.60            | -0.0032               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -4.80            | -0.0028               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -5.60            | -0.0032               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -4.30            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -3.70            | -0.0021               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | -4.80            | -0.0028               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 64 QAM              | 1745            | Outer_Full    | 20         | LV    | -5.20            | -0.0030               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -4.40            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -1.90            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -1.00            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -1.40            | -0.0008               | >=-2.5 & <=2.5 | Pass    |



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|                    |      |            |     |    |       |         |                |      |
|--------------------|------|------------|-----|----|-------|---------|----------------|------|
|                    |      |            | 0   | NV | -1.80 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -2.90 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | -2.10 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | -1.00 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | -4.00 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -2.90 | -0.0017 | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 256 QAM | 1745 | Outer_Full | 20  | LV | -3.60 | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -4.30 | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -3.20 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -5.00 | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | -6.50 | -0.0037 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -4.20 | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -4.10 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | -5.20 | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | -4.10 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | -3.90 | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -4.50 | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | 2.40  | 0.0014  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | 0.90  | 0.0005  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | 3.00  | 0.0017  | >=-2.5 & <=2.5 | Pass |
| CP-OFDM QPSK       | 1745 | Outer_Full | -20 | NV | 3.00  | 0.0017  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | 2.20  | 0.0013  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | 2.70  | 0.0015  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | 4.10  | 0.0023  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | 1.80  | 0.0010  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | 3.90  | 0.0022  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | 2.40  | 0.0014  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | 3.40  | 0.0019  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | 3.00  | 0.0017  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | 1.50  | 0.0009  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | 3.30  | 0.0019  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | 3.30  | 0.0019  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | 1.50  | 0.0009  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | 1.80  | 0.0010  | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 16 QAM     | 1745 | Outer_Full | 10  | NV | 5.00  | 0.0029  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | 3.40  | 0.0019  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | 3.30  | 0.0019  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | 3.80  | 0.0022  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | 3.00  | 0.0017  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | 1.20  | 0.0007  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | 4.30  | 0.0025  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | 4.30  | 0.0025  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | 1.50  | 0.0009  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | 1.70  | 0.0010  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | 1.80  | 0.0010  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | 1.90  | 0.0011  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | 3.40  | 0.0019  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | 1.10  | 0.0006  | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 64 QAM     | 1745 | Outer_Full | 40  | NV | 2.40  | 0.0014  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | 3.10  | 0.0018  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | -2.90 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -3.30 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -3.80 | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -3.50 | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | -2.90 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -3.30 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -3.80 | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -3.50 | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | -2.90 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -3.30 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -3.80 | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -3.50 | -0.0020 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 256 QAM    | 1745 | Outer_Full | 20  | LV | -2.90 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -3.30 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -3.80 | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -3.50 | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | -2.90 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -3.30 | -0.0019 | >=-2.5 & <=2.5 | Pass |



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|  |  |  |     |    |       |         |                |      |
|--|--|--|-----|----|-------|---------|----------------|------|
|  |  |  | -10 | NV | -2.30 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 0   | NV | -2.10 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 10  | NV | -2.10 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 20  | NV | -0.90 | -0.0005 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 30  | NV | -5.00 | -0.0029 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 40  | NV | -3.60 | -0.0021 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 50  | NV | -2.20 | -0.0013 | >=-2.5 & <=2.5 | Pass |

## 7.8 30k SISO 10MHz

### 7.8.1 Test Result

| 5G NR n66 SCS=30kHz SISO 10MHz |                 |               |            |                |                  |                       |                |         |
|--------------------------------|-----------------|---------------|------------|----------------|------------------|-----------------------|----------------|---------|
| Modulation                     | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt.          | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                |                 |               |            |                |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK           | 1745            | Outer_Full    | 20         | LV             | 2.80             | 0.0016                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV             | 5.50             | 0.0032                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV             | 2.20             | 0.0013                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV             | 5.70             | 0.0033                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV             | 3.30             | 0.0019                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV             | -1.10            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV             | -1.50            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV             | 3.00             | 0.0017                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV             | 2.40             | 0.0014                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV             | 2.20             | 0.0013                | >=-2.5 & <=2.5 | Pass    |
| 50                             | NV              | -4.20         | -0.0024    | >=-2.5 & <=2.5 | Pass             |                       |                |         |
| DFT-s-OFDM QPSK                | 1745            | Outer_Full    | 20         | LV             | 2.70             | 0.0015                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV             | -1.70            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV             | 1.80             | 0.0010                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV             | -4.80            | -0.0028               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV             | -4.00            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV             | -5.00            | -0.0029               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV             | -2.40            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV             | -2.00            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV             | -4.00            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV             | -2.50            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
| 50                             | NV              | -4.30         | -0.0025    | >=-2.5 & <=2.5 | Pass             |                       |                |         |
| DFT-s-OFDM 16 QAM              | 1745            | Outer_Full    | 20         | LV             | -3.00            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV             | -3.80            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV             | -0.60            | -0.0003               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV             | -3.10            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV             | -1.60            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV             | -0.90            | -0.0005               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV             | 4.00             | 0.0023                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV             | 1.60             | 0.0009                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV             | -4.10            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV             | -6.00            | -0.0034               | >=-2.5 & <=2.5 | Pass    |
| 50                             | NV              | 2.30          | 0.0013     | >=-2.5 & <=2.5 | Pass             |                       |                |         |
| DFT-s-OFDM 64 QAM              | 1745            | Outer_Full    | 20         | LV             | -2.00            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV             | 1.40             | 0.0008                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV             | 4.00             | 0.0023                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV             | -3.20            | -0.0018               | >=-2.5 & <=2.5 | Pass    |



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|                    |      |            |     |    |       |         |                |      |
|--------------------|------|------------|-----|----|-------|---------|----------------|------|
|                    |      |            | -10 | NV | 4.10  | 0.0023  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | 1.60  | 0.0009  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -3.80 | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | -6.30 | -0.0036 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | -1.20 | -0.0007 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | 2.00  | 0.0011  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -2.40 | -0.0014 | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 256 QAM | 1745 | Outer_Full | 20  | LV | -3.70 | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -3.90 | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -2.90 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -3.10 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | 3.60  | 0.0021  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -6.30 | -0.0036 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -5.00 | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | -1.30 | -0.0007 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | -2.80 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | -4.20 | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -3.50 | -0.0020 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM QPSK       | 1745 | Outer_Full | 20  | LV | -2.00 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -3.60 | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -1.60 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -2.30 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | -5.10 | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -3.30 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -1.90 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | -2.10 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | -4.00 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | -3.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -2.10 | -0.0012 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 16 QAM     | 1745 | Outer_Full | 20  | LV | -3.50 | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -3.20 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -1.60 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -2.80 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | -5.40 | -0.0031 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -3.10 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -2.10 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | -2.60 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | 2.40  | 0.0014  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | -4.30 | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -1.50 | -0.0009 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 64 QAM     | 1745 | Outer_Full | 20  | LV | -5.10 | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -4.30 | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -4.80 | -0.0028 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -3.60 | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | -3.80 | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -6.10 | -0.0035 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -2.00 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | -0.90 | -0.0005 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | -4.30 | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | -4.30 | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -3.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 256 QAM    | 1745 | Outer_Full | 20  | LV | -1.50 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | 1.90  | 0.0011  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | 1.90  | 0.0011  | >=-2.5 & <=2.5 | Pass |



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|  |  |  |     |    |       |         |                |      |
|--|--|--|-----|----|-------|---------|----------------|------|
|  |  |  | -20 | NV | -0.80 | -0.0005 | >=-2.5 & <=2.5 | Pass |
|  |  |  | -10 | NV | -2.70 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 0   | NV | 2.00  | 0.0011  | >=-2.5 & <=2.5 | Pass |
|  |  |  | 10  | NV | 2.10  | 0.0012  | >=-2.5 & <=2.5 | Pass |
|  |  |  | 20  | NV | -1.80 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 30  | NV | -1.20 | -0.0007 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 40  | NV | 2.40  | 0.0014  | >=-2.5 & <=2.5 | Pass |
|  |  |  | 50  | NV | -3.40 | -0.0019 | >=-2.5 & <=2.5 | Pass |

## 7.9 30k\_SISO\_15MHz

### 7.9.1 Test Result

| 5G NR n66 SCS=30kHz SISO 15MHz |                 |               |            |       |                  |                       |                |         |
|--------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                     | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK           | 1745            | Outer_Full    | 20         | LV    | -4.30            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -4.50            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | 3.50             | 0.0020                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -1.40            | -0.0008               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -1.30            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -1.10            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -2.00            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | 3.40             | 0.0019                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | 3.10             | 0.0018                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | -1.60            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                | 1745            | Outer_Full    | 20         | LV    | -3.80            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -6.30            | -0.0036               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -5.30            | -0.0030               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -6.40            | -0.0037               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -2.70            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -3.90            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | 1.10             | 0.0006                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | 3.10             | 0.0018                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -3.30            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | 2.60             | 0.0015                | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM              | 1745            | Outer_Full    | 20         | LV    | -2.30            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | 2.00             | 0.0011                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | 1.80             | 0.0010                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | 4.30             | 0.0025                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | 0.60             | 0.0003                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | 5.90             | 0.0034                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | 2.80             | 0.0016                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | 5.50             | 0.0032                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | 4.20             | 0.0024                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | 4.50             | 0.0026                | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 64 QAM              | 1745            | Outer_Full    | 20         | LV    | 4.30             | 0.0025                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | 1.90             | 0.0011                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | 2.60             | 0.0015                | >=-2.5 & <=2.5 | Pass    |



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|                    |      |            |     |    |       |         |                |      |
|--------------------|------|------------|-----|----|-------|---------|----------------|------|
|                    |      |            | -20 | NV | 1.40  | 0.0008  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | 1.30  | 0.0007  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | 2.80  | 0.0016  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | 5.20  | 0.0030  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | -1.00 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | -1.50 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | 3.30  | 0.0019  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -2.50 | -0.0014 | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 256 QAM | 1745 | Outer_Full | 20  | LV | -3.30 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -3.20 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -2.40 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -1.50 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | -2.80 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -2.40 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -5.10 | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | -3.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | 1.20  | 0.0007  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | 4.00  | 0.0023  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -4.40 | -0.0025 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM QPSK       | 1745 | Outer_Full | 20  | LV | 2.00  | 0.0011  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | 4.20  | 0.0024  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -1.70 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -6.60 | -0.0038 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | 1.50  | 0.0009  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | 2.00  | 0.0011  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -1.10 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | 1.70  | 0.0010  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | -3.40 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | -2.60 | -0.0015 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 16 QAM     | 1745 | Outer_Full | 50  | NV | 1.50  | 0.0009  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | -3.20 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -2.00 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -2.70 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | 1.60  | 0.0009  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | -2.00 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | 1.10  | 0.0006  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -2.70 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | -2.20 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | 1.10  | 0.0006  | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 64 QAM     | 1745 | Outer_Full | 40  | NV | -2.80 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -1.60 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | -1.30 | -0.0007 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | 2.30  | 0.0013  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | 2.90  | 0.0017  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | 1.90  | 0.0011  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | -0.50 | -0.0003 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | 0.30  | 0.0002  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -1.40 | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | -1.30 | -0.0007 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 256 QAM    | 1745 | Outer_Full | 30  | NV | -1.10 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | 2.50  | 0.0014  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | 2.90  | 0.0017  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | -2.30 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | 2.30  | 0.0013  | >=-2.5 & <=2.5 | Pass |



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|  |  |  |     |    |      |        |                |      |
|--|--|--|-----|----|------|--------|----------------|------|
|  |  |  | -30 | NV | 2.40 | 0.0014 | >=-2.5 & <=2.5 | Pass |
|  |  |  | -20 | NV | 3.70 | 0.0021 | >=-2.5 & <=2.5 | Pass |
|  |  |  | -10 | NV | 3.60 | 0.0021 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 0   | NV | 0.70 | 0.0004 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 10  | NV | 4.60 | 0.0026 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 20  | NV | 4.40 | 0.0025 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 30  | NV | 3.40 | 0.0019 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 40  | NV | 2.60 | 0.0015 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 50  | NV | 2.00 | 0.0011 | >=-2.5 & <=2.5 | Pass |

## 7.10 30k\_SISO\_20MHz

### 7.10.1 Test Result

| 5G NR n66 SCS=30kHz SISO 20MHz |                 |               |            |       |                  |                       |                |         |
|--------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                     | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK           | 1745            | Outer_Full    | 20         | LV    | 2.30             | 0.0013                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -2.20            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | 2.30             | 0.0013                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -3.80            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -1.10            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -4.70            | -0.0027               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | 2.50             | 0.0014                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | 2.20             | 0.0013                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -3.30            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | 2.80             | 0.0016                | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                | 1745            | Outer_Full    | 20         | LV    | -2.60            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -3.20            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -1.80            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -4.10            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -3.40            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | 3.30             | 0.0019                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -3.20            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -1.50            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -6.80            | -0.0039               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | 2.30             | 0.0013                | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM              | 1745            | Outer_Full    | 20         | LV    | -3.30            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -1.80            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | 1.60             | 0.0009                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | 3.20             | 0.0018                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | 2.40             | 0.0014                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -3.00            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -3.00            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | 5.00             | 0.0029                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | 3.30             | 0.0019                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | -1.60            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 64 QAM              | 1745            | Outer_Full    | 20         | LV    | 3.00             | 0.0017                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | 5.40             | 0.0031                | >=-2.5 & <=2.5 | Pass    |



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|                    |      |            |     |    |       |         |                |      |
|--------------------|------|------------|-----|----|-------|---------|----------------|------|
|                    |      |            | -30 | NV | 6.20  | 0.0036  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | 4.50  | 0.0026  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | 0.60  | 0.0003  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | 2.10  | 0.0012  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | 1.50  | 0.0009  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | 5.90  | 0.0034  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | 3.70  | 0.0021  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | -2.00 | -0.0011 | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 256 QAM | 1745 | Outer_Full | 50  | NV | -4.40 | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | 0.90  | 0.0005  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -3.30 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | 5.00  | 0.0029  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | 4.10  | 0.0023  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | 2.10  | 0.0012  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | 3.00  | 0.0017  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | 3.90  | 0.0022  | >=-2.5 & <=2.5 | Pass |
| CP-OFDM QPSK       | 1745 | Outer_Full | 20  | NV | -2.60 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | 4.30  | 0.0025  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | 8.40  | 0.0048  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -3.70 | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | -2.70 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -3.50 | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -1.20 | -0.0007 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -3.40 | -0.0019 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 16 QAM     | 1745 | Outer_Full | -10 | NV | 0.90  | 0.0005  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | 1.20  | 0.0007  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -1.40 | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | -2.80 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | -1.60 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | -2.40 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | 0.60  | 0.0003  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | -3.50 | -0.0020 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 64 QAM     | 1745 | Outer_Full |     | HV | -2.00 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -3.80 | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -0.90 | -0.0005 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | 0.50  | 0.0003  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -5.50 | -0.0032 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -2.20 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | -0.60 | -0.0003 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | 1.20  | 0.0007  | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 256 QAM    | 1745 | Outer_Full | 40  | NV | -4.10 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -2.40 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | -2.70 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -2.10 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -1.80 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -2.40 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | -3.30 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -1.80 | -0.0010 | >=-2.5 & <=2.5 | Pass |



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|  |  |  |     |    |       |         |                |      |
|--|--|--|-----|----|-------|---------|----------------|------|
|  |  |  |     | HV | -4.10 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|  |  |  | -30 | NV | -2.00 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|  |  |  | -20 | NV | -3.60 | -0.0021 | >=-2.5 & <=2.5 | Pass |
|  |  |  | -10 | NV | -3.30 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 0   | NV | -4.30 | -0.0025 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 10  | NV | -4.00 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 20  | NV | -2.30 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 30  | NV | -3.40 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 40  | NV | -1.70 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 50  | NV | -2.40 | -0.0014 | >=-2.5 & <=2.5 | Pass |

## 7.11 30k\_SISO\_25MHz

### 7.11.1 Test Result

| 5G NR n66 SCS=30kHz SISO 25MHz |                 |               |            |       |                  |                       |                |         |
|--------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                     | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK           | 1745            | Outer_Full    | 20         | LV    | -4.00            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -3.80            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -4.00            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | 2.40             | 0.0014                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -5.80            | -0.0033               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | 5.30             | 0.0030                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -4.90            | -0.0028               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -5.90            | -0.0034               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -5.10            | -0.0029               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | 2.40             | 0.0014                | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                | 1745            | Outer_Full    | 20         | LV    | 3.30             | 0.0019                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | 3.70             | 0.0021                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -3.60            | -0.0021               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | 5.50             | 0.0032                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -1.30            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | 3.20             | 0.0018                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | 4.30             | 0.0025                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -3.40            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -4.90            | -0.0028               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | 7.40             | 0.0042                | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM              | 1745            | Outer_Full    | 20         | LV    | 1.50             | 0.0009                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -4.70            | -0.0027               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -7.90            | -0.0045               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -6.40            | -0.0037               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -3.50            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | 2.10             | 0.0012                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -7.10            | -0.0041               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -3.60            | -0.0021               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | -5.30            | -0.0030               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | -3.30            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 64 QAM              | 1745            | Outer_Full    | 50         | NV    | -3.70            | -0.0021               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | LV    | -2.60            | -0.0015               | >=-2.5 & <=2.5 | Pass    |



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|                    |      |            |     |    |       |         |                |      |
|--------------------|------|------------|-----|----|-------|---------|----------------|------|
|                    |      |            |     | HV | -5.10 | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -3.30 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -6.10 | -0.0035 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | -3.70 | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -7.50 | -0.0043 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -7.50 | -0.0043 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | -3.90 | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | -4.20 | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | -4.30 | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -6.20 | -0.0036 | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 256 QAM | 1745 | Outer_Full | 20  | LV | 3.10  | 0.0018  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | 1.50  | 0.0009  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -2.60 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -0.80 | -0.0005 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | -3.30 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -3.20 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -3.10 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | -2.40 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | -1.20 | -0.0007 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | -0.70 | -0.0004 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM QPSK       | 1745 | Outer_Full | 50  | NV | 5.60  | 0.0032  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | -1.60 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -5.20 | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -3.70 | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | 1.60  | 0.0009  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | -4.50 | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -4.10 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -2.80 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | -2.90 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | -2.60 | -0.0015 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 16 QAM     | 1745 | Outer_Full | 40  | NV | -4.50 | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -2.30 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | 0.50  | 0.0003  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | 1.70  | 0.0010  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -3.30 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | 1.80  | 0.0010  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | 2.20  | 0.0013  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | 2.10  | 0.0012  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -1.70 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | 0.70  | 0.0004  | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 64 QAM     | 1745 | Outer_Full | 30  | NV | -1.00 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | 1.10  | 0.0006  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -2.20 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | -1.90 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | 2.30  | 0.0013  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | 4.10  | 0.0023  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | 3.80  | 0.0022  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | 4.50  | 0.0026  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -1.90 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -1.10 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | 3.70  | 0.0021  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | 3.30  | 0.0019  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | 0.70  | 0.0004  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -1.60 | -0.0009 | >=-2.5 & <=2.5 | Pass |



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|                 |      |            |     |    |       |         |                |      |
|-----------------|------|------------|-----|----|-------|---------|----------------|------|
| CP-OFDM 256 QAM | 1745 | Outer_Full | 20  | LV | -4.40 | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                 |      |            |     | HV | -4.20 | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                 |      |            | -30 | NV | -1.40 | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                 |      |            | -20 | NV | -1.40 | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                 |      |            | -10 | NV | -1.40 | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                 |      |            | 0   | NV | -1.70 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                 |      |            | 10  | NV | -6.50 | -0.0037 | >=-2.5 & <=2.5 | Pass |
|                 |      |            | 20  | NV | -1.00 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                 |      |            | 30  | NV | -4.90 | -0.0028 | >=-2.5 & <=2.5 | Pass |
|                 |      |            | 40  | NV | -3.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                 |      |            | 50  | NV | -3.10 | -0.0018 | >=-2.5 & <=2.5 | Pass |

## 7.12 30k\_SISO\_30MHz

### 7.12.1 Test Result

| 5G NR n66 SCS=30kHz SISO 30MHz |                 |               |            |       |                  |                       |                |         |
|--------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                     | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK           | 1745            | Outer_Full    | 20         | LV    | 7.90             | 0.0045                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -0.90            | -0.0005               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -3.10            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | 2.70             | 0.0015                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -1.10            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | 0.80             | 0.0005                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | 2.30             | 0.0013                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | 3.30             | 0.0019                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | 4.10             | 0.0023                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | 3.70             | 0.0021                | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                | 1745            | Outer_Full    | 50         | NV    | 3.30             | 0.0019                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | LV    | 2.30             | 0.0013                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -4.20            | -0.0024               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -5.40            | -0.0031               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -2.20            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -1.60            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -1.10            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | 2.50             | 0.0014                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | 4.50             | 0.0026                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | 4.10             | 0.0023                | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM              | 1745            | Outer_Full    | 40         | NV    | -4.60            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 50         | NV    | 4.30             | 0.0025                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | LV    | 3.50             | 0.0020                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | 2.60             | 0.0015                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | 3.60             | 0.0021                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | 5.10             | 0.0029                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | 2.80             | 0.0016                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | 1.30             | 0.0007                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | 5.70             | 0.0033                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | 4.70             | 0.0027                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | 3.80             | 0.0022                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | 4.30             | 0.0025                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 50         | NV    | 2.20             | 0.0013                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            |       |                  |                       |                |         |



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|                    |      |            |     |    |       |         |                |      |
|--------------------|------|------------|-----|----|-------|---------|----------------|------|
| DFT-s-OFDM 64 QAM  | 1745 | Outer_Full | 20  | LV | 5.10  | 0.0029  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | 1.70  | 0.0010  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | 3.60  | 0.0021  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | 3.80  | 0.0022  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | 4.50  | 0.0026  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | 1.90  | 0.0011  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | 4.80  | 0.0028  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | 2.20  | 0.0013  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | 2.70  | 0.0015  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | 5.10  | 0.0029  | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 256 QAM | 1745 | Outer_Full | 50  | NV | 1.60  | 0.0009  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | 0.90  | 0.0005  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -3.90 | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -2.20 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -3.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | -2.10 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -3.40 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -4.90 | -0.0028 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | -3.90 | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | 1.40  | 0.0008  | >=-2.5 & <=2.5 | Pass |
| CP-OFDM QPSK       | 1745 | Outer_Full | 40  | NV | 1.90  | 0.0011  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -1.30 | -0.0007 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | -5.30 | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | -2.50 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | -2.00 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -2.40 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | -2.90 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -2.00 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | -1.80 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | -2.60 | -0.0015 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 16 QAM     | 1745 | Outer_Full | 30  | NV | -3.70 | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | -1.10 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 50  | NV | -3.70 | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | LV | 1.30  | 0.0007  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | 3.60  | 0.0021  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | 2.90  | 0.0017  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -2.00 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | 3.90  | 0.0022  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | -2.50 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | 1.30  | 0.0007  | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 64 QAM     | 1745 | Outer_Full | 20  | NV | -2.60 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |     | HV | 2.20  | 0.0013  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30 | NV | 2.00  | 0.0011  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20 | NV | -2.20 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10 | NV | 5.90  | 0.0034  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0   | NV | 3.80  | 0.0022  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10  | NV | 4.30  | 0.0025  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20  | NV | 3.00  | 0.0017  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30  | NV | -3.10 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40  | NV | 2.30  | 0.0013  | >=-2.5 & <=2.5 | Pass |



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|                 |      |            |     |    |       |         |                |      |
|-----------------|------|------------|-----|----|-------|---------|----------------|------|
| CP-OFDM 256 QAM | 1745 | Outer_Full | 50  | NV | -1.40 | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                 |      |            | 20  | LV | -3.40 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                 |      |            |     | HV | -1.90 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                 |      |            | -30 | NV | -2.00 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                 |      |            | -20 | NV | -1.60 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                 |      |            | -10 | NV | -2.10 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                 |      |            | 0   | NV | -2.90 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                 |      |            | 10  | NV | -1.10 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                 |      |            | 20  | NV | -4.00 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                 |      |            | 30  | NV | -4.20 | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                 |      |            | 40  | NV | -4.00 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                 |      |            | 50  | NV | -1.80 | -0.0010 | >=-2.5 & <=2.5 | Pass |

## 7.13 30k\_SISO\_40MHz

### 7.13.1 Test Result

| 5G NR n66 SCS=30kHz SISO 40MHz |                 |               |            |       |                  |                       |                |         |
|--------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                     | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK           | 1745            | Outer_Full    | 20         | LV    | -4.60            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -5.40            | -0.0031               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -2.60            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -1.60            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -3.20            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -3.30            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | -3.10            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -5.60            | -0.0032               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | 2.20             | 0.0013                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | 3.00             | 0.0017                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 50         | NV    | -2.30            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                | 1745            | Outer_Full    | 20         | LV    | -5.30            | -0.0030               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | -3.00            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | -3.30            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | -2.20            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | -1.80            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -2.70            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | 2.50             | 0.0014                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | -2.70            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | 2.40             | 0.0014                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | -3.20            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 50         | NV    | 2.60             | 0.0015                | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM              | 1745            | Outer_Full    | 20         | LV    | -2.30            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               |            | HV    | 7.70             | 0.0044                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -30        | NV    | 6.00             | 0.0034                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -20        | NV    | 5.40             | 0.0031                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | -10        | NV    | 1.70             | 0.0010                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 0          | NV    | -2.90            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 10         | NV    | 2.90             | 0.0017                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 20         | NV    | 4.10             | 0.0023                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 30         | NV    | 3.00             | 0.0017                | >=-2.5 & <=2.5 | Pass    |
|                                |                 |               | 40         | NV    | 3.50             | 0.0020                | >=-2.5 & <=2.5 | Pass    |



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|                    |      |            |         |                |       |         |                |      |
|--------------------|------|------------|---------|----------------|-------|---------|----------------|------|
|                    |      |            | 50      | NV             | 0.60  | 0.0003  | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 64 QAM  | 1745 | Outer_Full | 20      | LV             | 5.00  | 0.0029  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |         | HV             | 2.60  | 0.0015  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30     | NV             | 3.80  | 0.0022  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20     | NV             | 1.20  | 0.0007  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10     | NV             | 7.10  | 0.0041  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0       | NV             | 4.80  | 0.0028  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10      | NV             | 3.40  | 0.0019  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20      | NV             | 1.00  | 0.0006  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30      | NV             | 0.50  | 0.0003  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40      | NV             | -1.50 | -0.0009 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV   | 2.20       | 0.0013  | >=-2.5 & <=2.5 | Pass  |         |                |      |
| DFT-s-OFDM 256 QAM | 1745 | Outer_Full | 20      | LV             | 1.40  | 0.0008  | >=-2.5 & <=2.5 | Pass |
|                    |      |            |         | HV             | -3.30 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30     | NV             | 1.50  | 0.0009  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20     | NV             | -3.30 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10     | NV             | -4.10 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0       | NV             | -1.70 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10      | NV             | 3.50  | 0.0020  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20      | NV             | -6.20 | -0.0036 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30      | NV             | -4.30 | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40      | NV             | -2.20 | -0.0013 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV   | -5.50      | -0.0032 | >=-2.5 & <=2.5 | Pass  |         |                |      |
| CP-OFDM QPSK       | 1745 | Outer_Full | 20      | LV             | -4.90 | -0.0028 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |         | HV             | -3.70 | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30     | NV             | -3.30 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20     | NV             | -1.30 | -0.0007 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10     | NV             | -3.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0       | NV             | -3.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10      | NV             | -3.20 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20      | NV             | -3.80 | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30      | NV             | -3.40 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40      | NV             | -4.70 | -0.0027 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV   | -4.10      | -0.0023 | >=-2.5 & <=2.5 | Pass  |         |                |      |
| CP-OFDM 16 QAM     | 1745 | Outer_Full | 20      | LV             | -4.10 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |         | HV             | -2.30 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30     | NV             | -2.80 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20     | NV             | 1.30  | 0.0007  | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10     | NV             | -3.10 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0       | NV             | -3.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10      | NV             | -4.00 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20      | NV             | -4.10 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 30      | NV             | -3.10 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 40      | NV             | -2.40 | -0.0014 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV   | -3.10      | -0.0018 | >=-2.5 & <=2.5 | Pass  |         |                |      |
| CP-OFDM 64 QAM     | 1745 | Outer_Full | 20      | LV             | -2.20 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |      |            |         | HV             | -3.10 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -30     | NV             | -3.20 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -20     | NV             | -1.20 | -0.0007 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | -10     | NV             | -3.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 0       | NV             | -5.50 | -0.0032 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 10      | NV             | -4.60 | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |      |            | 20      | NV             | -4.00 | -0.0023 | >=-2.5 & <=2.5 | Pass |
| 30                 | NV   | -4.80      | -0.0028 | >=-2.5 & <=2.5 | Pass  |         |                |      |



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|                 |      |            |     |    |       |         |                          |      |
|-----------------|------|------------|-----|----|-------|---------|--------------------------|------|
| CP-OFDM 256 QAM | 1745 | Outer_Full | 40  | NV | -4.80 | -0.0028 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |      |            | 50  | NV | -2.40 | -0.0014 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |      |            | 20  | LV | -2.80 | -0.0016 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |      |            |     | HV | 3.10  | 0.0018  | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |      |            | -30 | NV | 0.80  | 0.0005  | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |      |            | -20 | NV | -0.80 | -0.0005 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |      |            | -10 | NV | -2.20 | -0.0013 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |      |            | 0   | NV | 1.50  | 0.0009  | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |      |            | 10  | NV | -4.20 | -0.0024 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |      |            | 20  | NV | 2.60  | 0.0015  | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |      |            | 30  | NV | -3.10 | -0.0018 | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |      |            | 40  | NV | 2.00  | 0.0011  | $\geq -2.5$ & $\leq 2.5$ | Pass |
|                 |      |            | 50  | NV | -1.70 | -0.0010 | $\geq -2.5$ & $\leq 2.5$ | Pass |



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## 8. n78d Frequency Stability

### 8.1 15k\_SISO\_10MHz

#### 8.1.1 Test Result

| 5G NR n78d SCS=15kHz SISO 10MHz |                 |               |            |       |                  |                       |                |         |
|---------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                      | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                 |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK            | 3625.005        | Outer_Full    | 20         | LV    | -5.30            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -6.70            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -5.20            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | NV    | -7.20            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -9.80            | -0.0027               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | NV    | -6.40            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -4.00            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | NV    | -4.10            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -5.30            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | NV    | -7.10            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                 | 3625.005        | Outer_Full    | 20         | LV    | -7.30            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -6.90            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -7.80            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | NV    | -7.30            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -8.00            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | NV    | -5.30            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -5.10            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | NV    | -8.40            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -5.70            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | NV    | -6.00            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM               | 3625.005        | Outer_Full    | 20         | LV    | -8.00            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -8.20            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -10.30           | -0.0028               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | NV    | -9.60            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -9.40            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | NV    | -9.80            | -0.0027               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -10.30           | -0.0028               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | NV    | -7.10            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -10.30           | -0.0028               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | NV    | -8.00            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 64 QAM               | 3625.005        | Outer_Full    | 20         | LV    | -10.30           | -0.0028               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -7.70            | -0.0021               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -8.60            | -0.0024               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | NV    | -9.50            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -9.90            | -0.0027               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | NV    | -9.60            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -8.90            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | NV    | -7.60            | -0.0021               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -9.10            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | NV    | -6.70            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 50         | NV    | -6.80            | -0.0019               | >=-2.5 & <=2.5 | Pass    |



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|                    |          |            |         |                |        |         |                |      |
|--------------------|----------|------------|---------|----------------|--------|---------|----------------|------|
| DFT-s-OFDM 256 QAM | 3625.005 | Outer_Full | 20      | LV             | -6.40  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |         | HV             | -8.90  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30     | NV             | -7.40  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20     | NV             | -10.00 | -0.0028 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10     | NV             | -9.10  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0       | NV             | -7.60  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10      | NV             | -9.80  | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20      | NV             | -8.60  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30      | NV             | -10.10 | -0.0028 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 40      | NV             | -6.30  | -0.0017 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV       | -6.60      | -0.0018 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM QPSK       | 3625.005 | Outer_Full | 20      | LV             | -9.50  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |         | HV             | -10.00 | -0.0028 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30     | NV             | -7.70  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20     | NV             | -7.80  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10     | NV             | -8.50  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0       | NV             | -7.50  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10      | NV             | -8.70  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20      | NV             | -9.60  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30      | NV             | -7.50  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 40      | NV             | -8.30  | -0.0023 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV       | -8.60      | -0.0024 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM 16 QAM     | 3625.005 | Outer_Full | 20      | LV             | -6.20  | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |         | HV             | -9.70  | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30     | NV             | -6.90  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20     | NV             | -10.50 | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10     | NV             | -9.70  | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0       | NV             | -9.70  | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10      | NV             | -8.50  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20      | NV             | -10.30 | -0.0028 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30      | NV             | -9.10  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 40      | NV             | -6.50  | -0.0018 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV       | -7.40      | -0.0020 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM 64 QAM     | 3625.005 | Outer_Full | 20      | LV             | -7.70  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |         | HV             | -8.30  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30     | NV             | -7.50  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20     | NV             | -9.30  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10     | NV             | -8.30  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0       | NV             | -9.90  | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10      | NV             | -9.50  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20      | NV             | -9.70  | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30      | NV             | -6.70  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 40      | NV             | -5.00  | -0.0014 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV       | -8.60      | -0.0024 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM 256 QAM    | 3625.005 | Outer_Full | 20      | LV             | -8.30  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |         | HV             | -10.50 | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30     | NV             | -9.20  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20     | NV             | -9.60  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10     | NV             | -9.10  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0       | NV             | -8.60  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10      | NV             | -9.60  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20      | NV             | -9.90  | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30      | NV             | -7.30  | -0.0020 | >=-2.5 & <=2.5 | Pass |
| 40                 | NV       | -8.00      | -0.0022 | >=-2.5 & <=2.5 | Pass   |         |                |      |



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|  |  |  |    |    |       |         |                |      |
|--|--|--|----|----|-------|---------|----------------|------|
|  |  |  | 50 | NV | -6.90 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|--|--|--|----|----|-------|---------|----------------|------|

## 8.2 15k SISO 15MHz

### 8.2.1 Test Result

| 5G NR n78d SCS=15kHz SISO 15MHz |                 |               |            |                |                  |                       |                |         |
|---------------------------------|-----------------|---------------|------------|----------------|------------------|-----------------------|----------------|---------|
| Modulation                      | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt.          | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                 |                 |               |            |                |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK            | 3625.005        | Outer_Full    | 20         | LV             | -3.50            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV             | -5.90            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV             | -5.80            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV             | -7.30            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV             | -7.40            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV             | -5.70            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV             | -5.90            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV             | -5.90            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV             | -6.90            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV             | -7.30            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
| 50                              | NV              | -6.30         | -0.0017    | >=-2.5 & <=2.5 | Pass             |                       |                |         |
| DFT-s-OFDM QPSK                 | 3625.005        | Outer_Full    | 20         | LV             | -7.20            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV             | -5.70            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV             | -7.20            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV             | -6.60            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV             | -5.20            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV             | -5.90            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV             | -9.70            | -0.0027               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV             | -7.00            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV             | -7.30            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV             | -7.70            | -0.0021               | >=-2.5 & <=2.5 | Pass    |
| 50                              | NV              | -4.90         | -0.0014    | >=-2.5 & <=2.5 | Pass             |                       |                |         |
| DFT-s-OFDM 16 QAM               | 3625.005        | Outer_Full    | 20         | LV             | -10.40           | -0.0029               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV             | -8.00            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV             | -9.20            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV             | -7.70            | -0.0021               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV             | -7.60            | -0.0021               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV             | -9.50            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV             | -8.00            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV             | -10.50           | -0.0029               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV             | -8.60            | -0.0024               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV             | -6.60            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
| 50                              | NV              | -7.60         | -0.0021    | >=-2.5 & <=2.5 | Pass             |                       |                |         |
| DFT-s-OFDM 64 QAM               | 3625.005        | Outer_Full    | 20         | LV             | -8.60            | -0.0024               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV             | -8.80            | -0.0024               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV             | -11.50           | -0.0032               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV             | -8.80            | -0.0024               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV             | -8.00            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV             | -8.20            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV             | -7.60            | -0.0021               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV             | -9.60            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV             | -8.20            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
| 40                              | NV              | -8.80         | -0.0024    | >=-2.5 & <=2.5 | Pass             |                       |                |         |



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|                    |          |            |     |    |        |         |                |      |
|--------------------|----------|------------|-----|----|--------|---------|----------------|------|
| DFT-s-OFDM 256 QAM | 3625.005 | Outer_Full | 50  | NV | -8.00  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20  | LV | -9.50  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |     | HV | -10.40 | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30 | NV | -9.80  | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20 | NV | -8.90  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10 | NV | -8.70  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0   | NV | -8.80  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10  | NV | -6.80  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20  | NV | -9.40  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30  | NV | -8.10  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 40  | NV | -6.60  | -0.0018 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM QPSK       | 3625.005 | Outer_Full | 50  | NV | -8.10  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20  | LV | -10.40 | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |     | HV | -12.30 | -0.0034 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30 | NV | -12.40 | -0.0034 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20 | NV | -7.70  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10 | NV | -8.30  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0   | NV | -7.10  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10  | NV | -10.60 | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20  | NV | -8.70  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30  | NV | -9.10  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 40  | NV | -7.90  | -0.0022 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 16 QAM     | 3625.005 | Outer_Full | 50  | NV | -7.10  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20  | LV | -8.50  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |     | HV | -7.00  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30 | NV | -8.20  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20 | NV | -8.20  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10 | NV | -8.30  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0   | NV | -8.30  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10  | NV | -8.20  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20  | NV | -6.90  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30  | NV | -9.20  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 40  | NV | -5.30  | -0.0015 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 64 QAM     | 3625.005 | Outer_Full | 50  | NV | -9.50  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20  | LV | -6.70  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |     | HV | -6.90  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30 | NV | -9.60  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20 | NV | -10.40 | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10 | NV | -9.30  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0   | NV | -8.10  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10  | NV | -10.50 | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20  | NV | -9.30  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30  | NV | -10.50 | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 40  | NV | -9.00  | -0.0025 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 256 QAM    | 3625.005 | Outer_Full | 50  | NV | -7.30  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20  | LV | -11.00 | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |     | HV | -3.80  | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30 | NV | -6.70  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20 | NV | -7.80  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10 | NV | -7.90  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0   | NV | -9.20  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10  | NV | -8.90  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20  | NV | -9.50  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30  | NV | -7.20  | -0.0020 | >=-2.5 & <=2.5 | Pass |



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|  |  |    |    |       |         |                |      |
|--|--|----|----|-------|---------|----------------|------|
|  |  | 40 | NV | -8.40 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|  |  | 50 | NV | -6.90 | -0.0019 | >=-2.5 & <=2.5 | Pass |

## 8.3 15k\_SISO\_20MHz

### 8.3.1 Test Result

| 5G NR n78d SCS=15kHz SISO 20MHz |                 |               |            |       |                  |                       |                |         |
|---------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                      | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                 |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK            | 3625.005        | Outer_Full    | 20         | LV    | -4.60            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -3.00            | -0.0008               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -3.40            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -4.10            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -2.60            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -3.80            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -1.80            | -0.0005               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -2.60            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -4.70            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -3.00            | -0.0008               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 50         | NV    | -4.30            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                 | 3625.005        | Outer_Full    | 20         | LV    | -5.50            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -5.40            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -4.30            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -4.60            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -4.00            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -5.60            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -4.80            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -5.40            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -5.10            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -5.20            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 50         | NV    | -5.10            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM               | 3625.005        | Outer_Full    | 20         | LV    | -7.10            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -5.80            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -10.30           | -0.0028               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -10.10           | -0.0028               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -7.10            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -7.30            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -6.90            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -7.80            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -8.20            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -8.90            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 50         | NV    | -9.40            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 64 QAM               | 3625.005        | Outer_Full    | 20         | LV    | -9.80            | -0.0027               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -7.80            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -6.90            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -6.70            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -6.30            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -9.40            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -9.50            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -4.60            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -5.10            | -0.0014               | >=-2.5 & <=2.5 | Pass    |



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|                    |          |            |         |                |        |         |                |      |
|--------------------|----------|------------|---------|----------------|--------|---------|----------------|------|
|                    |          |            | 40      | NV             | -7.60  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 50      | NV             | -8.30  | -0.0023 | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 256 QAM | 3625.005 | Outer_Full | 20      | LV             | -7.30  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |         | HV             | -8.60  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30     | NV             | -6.40  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20     | NV             | -5.90  | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10     | NV             | -9.50  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0       | NV             | -8.60  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10      | NV             | -8.60  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20      | NV             | -6.80  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30      | NV             | -8.80  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 40      | NV             | -6.90  | -0.0019 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV       | -7.50      | -0.0021 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM QPSK       | 3625.005 | Outer_Full | 20      | LV             | -6.60  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |         | HV             | -7.20  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30     | NV             | -8.30  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20     | NV             | -8.50  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10     | NV             | -9.10  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0       | NV             | -7.40  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10      | NV             | -6.00  | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20      | NV             | -5.70  | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30      | NV             | -7.90  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 40      | NV             | -7.00  | -0.0019 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV       | -8.70      | -0.0024 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM 16 QAM     | 3625.005 | Outer_Full | 20      | LV             | -6.70  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |         | HV             | -6.90  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30     | NV             | -7.30  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20     | NV             | -5.10  | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10     | NV             | -8.80  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0       | NV             | -9.40  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10      | NV             | -5.70  | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20      | NV             | -7.10  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30      | NV             | -5.10  | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 40      | NV             | -8.30  | -0.0023 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV       | -7.10      | -0.0020 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM 64 QAM     | 3625.005 | Outer_Full | 20      | LV             | -9.20  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |         | HV             | -10.60 | -0.0029 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30     | NV             | -8.50  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20     | NV             | -4.50  | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10     | NV             | -6.00  | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0       | NV             | -6.10  | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10      | NV             | -7.40  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20      | NV             | -3.80  | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30      | NV             | -10.20 | -0.0028 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 40      | NV             | -7.00  | -0.0019 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV       | -6.60      | -0.0018 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM 256 QAM    | 3625.005 | Outer_Full | 20      | LV             | -4.30  | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |         | HV             | -6.20  | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30     | NV             | -8.80  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20     | NV             | -5.30  | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10     | NV             | -7.20  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0       | NV             | -6.40  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10      | NV             | -4.80  | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20      | NV             | -4.30  | -0.0012 | >=-2.5 & <=2.5 | Pass |



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|  |  |    |    |       |         |                |      |
|--|--|----|----|-------|---------|----------------|------|
|  |  | 30 | NV | -8.50 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|  |  | 40 | NV | -7.50 | -0.0021 | >=-2.5 & <=2.5 | Pass |
|  |  | 50 | NV | -8.40 | -0.0023 | >=-2.5 & <=2.5 | Pass |

## 8.4 15k\_SISO\_25MHz

### 8.4.1 Test Result

| 5G NR n78d SCS=15kHz SISO 25MHz |                 |               |            |       |                  |                       |                |         |
|---------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                      | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                 |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK            | 3625.005        | Outer_Full    | 20         | LV    | -5.00            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -3.00            | -0.0008               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -3.10            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -3.80            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -3.70            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -3.40            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -5.70            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -5.10            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -3.80            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -5.90            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                 | 3625.005        | Outer_Full    | 20         | LV    | -5.20            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -6.70            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -3.20            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -2.70            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -5.50            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -4.40            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -5.70            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -4.20            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -6.80            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -6.80            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM               | 3625.005        | Outer_Full    | 20         | LV    | -5.40            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -7.30            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -7.50            | -0.0021               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -6.30            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -8.60            | -0.0024               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -8.90            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -10.20           | -0.0028               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -9.60            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -8.00            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -8.90            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 64 QAM               | 3625.005        | Outer_Full    | 20         | LV    | -8.40            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -7.90            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -8.70            | -0.0024               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -7.40            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -7.80            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -7.40            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -8.80            | -0.0024               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -7.80            | -0.0022               | >=-2.5 & <=2.5 | Pass    |



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|                    |          |            |         |                |        |         |                |      |
|--------------------|----------|------------|---------|----------------|--------|---------|----------------|------|
|                    |          |            | 30      | NV             | -8.40  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 40      | NV             | -8.30  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 50      | NV             | -4.00  | -0.0011 | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 256 QAM | 3625.005 | Outer_Full | 20      | LV             | -10.90 | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |         | HV             | -9.90  | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30     | NV             | -6.60  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20     | NV             | -8.00  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10     | NV             | -7.60  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0       | NV             | -8.30  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10      | NV             | -5.30  | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20      | NV             | -8.30  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30      | NV             | -4.30  | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 40      | NV             | -7.60  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 50      | NV             | -6.40  | -0.0018 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM QPSK       | 3625.005 | Outer_Full | 20      | LV             | -6.10  | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |         | HV             | -8.70  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30     | NV             | -4.10  | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20     | NV             | -9.40  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10     | NV             | -6.80  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0       | NV             | -4.20  | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10      | NV             | -6.90  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20      | NV             | -9.40  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30      | NV             | -4.50  | -0.0012 | >=-2.5 & <=2.5 | Pass |
| 40                 | NV       | -7.80      | -0.0022 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| 50                 | NV       | -6.10      | -0.0017 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM 16 QAM     | 3625.005 | Outer_Full | 20      | LV             | -6.60  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |         | HV             | -7.70  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30     | NV             | -5.80  | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20     | NV             | -8.40  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10     | NV             | -5.70  | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0       | NV             | -6.20  | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10      | NV             | -7.00  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20      | NV             | -6.60  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30      | NV             | -6.80  | -0.0019 | >=-2.5 & <=2.5 | Pass |
| 40                 | NV       | -6.50      | -0.0018 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| 50                 | NV       | -10.20     | -0.0028 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM 64 QAM     | 3625.005 | Outer_Full | 20      | LV             | -7.90  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |         | HV             | -4.80  | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30     | NV             | -8.30  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20     | NV             | -6.30  | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10     | NV             | -7.00  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0       | NV             | -9.20  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10      | NV             | -6.70  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20      | NV             | -7.10  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30      | NV             | -6.40  | -0.0018 | >=-2.5 & <=2.5 | Pass |
| 40                 | NV       | -6.70      | -0.0018 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| 50                 | NV       | -5.50      | -0.0015 | >=-2.5 & <=2.5 | Pass   |         |                |      |
| CP-OFDM 256 QAM    | 3625.005 | Outer_Full | 20      | LV             | -9.10  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |         | HV             | -5.90  | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30     | NV             | -5.60  | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20     | NV             | -6.00  | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10     | NV             | -7.90  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0       | NV             | -6.70  | -0.0018 | >=-2.5 & <=2.5 | Pass |
| 10                 | NV       | -6.00      | -0.0017 | >=-2.5 & <=2.5 | Pass   |         |                |      |



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|  |  |    |    |       |         |                |      |
|--|--|----|----|-------|---------|----------------|------|
|  |  | 20 | NV | -8.90 | -0.0025 | >=-2.5 & <=2.5 | Pass |
|  |  | 30 | NV | -3.70 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|  |  | 40 | NV | -7.90 | -0.0022 | >=-2.5 & <=2.5 | Pass |
|  |  | 50 | NV | -8.40 | -0.0023 | >=-2.5 & <=2.5 | Pass |

## 8.5 15k\_SISO\_30MHz

### 8.5.1 Test Result

| 5G NR n78d SCS=15kHz SISO 30MHz |                 |               |            |       |                  |                       |                |         |
|---------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                      | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                 |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK            | 3625.005        | Outer_Full    | 20         | LV    | -4.60            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -3.20            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -3.00            | -0.0008               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -3.70            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -3.70            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -3.30            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -4.60            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -3.10            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -4.80            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -2.40            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                 | 3625.005        | Outer_Full    | 20         | LV    | -4.70            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -4.10            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -1.80            | -0.0005               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -4.90            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -4.30            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -4.90            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -5.50            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -3.80            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -5.80            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -5.00            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM               | 3625.005        | Outer_Full    | 20         | LV    | -3.90            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -9.20            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -7.70            | -0.0021               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -8.30            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -8.90            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -6.60            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -10.90           | -0.0030               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -7.70            | -0.0021               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -6.90            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -7.10            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 64 QAM               | 3625.005        | Outer_Full    | 20         | LV    | -10.70           | -0.0030               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -11.20           | -0.0031               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -9.40            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -6.70            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -10.10           | -0.0028               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -8.80            | -0.0024               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -10.80           | -0.0030               | >=-2.5 & <=2.5 | Pass    |



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|                    |          |            |     |    |        |         |                |      |
|--------------------|----------|------------|-----|----|--------|---------|----------------|------|
|                    |          |            | 20  | NV | -8.90  | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30  | NV | -6.60  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 40  | NV | -8.40  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 50  | NV | -6.80  | -0.0019 | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 256 QAM | 3625.005 | Outer_Full | 20  | LV | -7.60  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |     | HV | -6.40  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30 | NV | -8.80  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20 | NV | -4.90  | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10 | NV | -6.90  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0   | NV | -9.60  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10  | NV | -8.20  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20  | NV | -7.60  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30  | NV | -7.30  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 40  | NV | -9.30  | -0.0026 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM QPSK       | 3625.005 | Outer_Full | 20  | LV | -7.50  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |     | HV | -8.40  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30 | NV | -7.10  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20 | NV | -7.80  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10 | NV | -6.50  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0   | NV | -7.00  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10  | NV | -8.40  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20  | NV | -10.00 | -0.0028 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30  | NV | -7.70  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 40  | NV | -6.50  | -0.0018 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 16 QAM     | 3625.005 | Outer_Full | 20  | LV | -7.10  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |     | HV | -8.30  | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30 | NV | -7.50  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20 | NV | -6.80  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10 | NV | -11.00 | -0.0030 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0   | NV | -6.10  | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10  | NV | -6.80  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20  | NV | -8.70  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30  | NV | -8.00  | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 40  | NV | -9.70  | -0.0027 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 64 QAM     | 3625.005 | Outer_Full | 20  | LV | -9.40  | -0.0026 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |     | HV | -8.60  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30 | NV | -6.70  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20 | NV | -8.70  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10 | NV | -7.60  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0   | NV | -7.40  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 10  | NV | -5.20  | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 20  | NV | -7.10  | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 30  | NV | -7.50  | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 40  | NV | -7.00  | -0.0019 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 256 QAM    | 3625.005 | Outer_Full | 20  | LV | -6.50  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |          |            |     | HV | -6.20  | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -30 | NV | -8.60  | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -20 | NV | -7.00  | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | -10 | NV | -6.60  | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |          |            | 0   | NV | -7.50  | -0.0021 | >=-2.5 & <=2.5 | Pass |



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|  |  |    |    |       |         |                |      |
|--|--|----|----|-------|---------|----------------|------|
|  |  | 10 | NV | -6.10 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|  |  | 20 | NV | -6.40 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|  |  | 30 | NV | -6.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|  |  | 40 | NV | -8.00 | -0.0022 | >=-2.5 & <=2.5 | Pass |
|  |  | 50 | NV | -6.80 | -0.0019 | >=-2.5 & <=2.5 | Pass |

## 8.6 15k\_SISO\_40MHz

### 8.6.1 Test Result

| 5G NR n78d SCS=15kHz SISO 40MHz |                 |               |            |                |                  |                       |                |         |
|---------------------------------|-----------------|---------------|------------|----------------|------------------|-----------------------|----------------|---------|
| Modulation                      | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt.          | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                 |                 |               |            |                |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK            | 3625.005        | Outer_Full    | 20         | LV             | -2.10            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV             | -6.10            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV             | -2.40            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV             | -3.70            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV             | -4.30            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV             | -5.80            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV             | -2.80            | -0.0008               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV             | -4.20            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV             | -4.30            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV             | -4.50            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
| 50                              | NV              | -5.60         | -0.0015    | >=-2.5 & <=2.5 | Pass             |                       |                |         |
| DFT-s-OFDM QPSK                 | 3625.005        | Outer_Full    | 20         | LV             | -3.10            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV             | -5.30            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV             | -4.80            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV             | -5.00            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV             | -3.50            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV             | -5.00            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV             | -5.90            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV             | -4.30            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV             | -3.60            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV             | -6.80            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
| 50                              | NV              | -5.60         | -0.0015    | >=-2.5 & <=2.5 | Pass             |                       |                |         |
| DFT-s-OFDM 16 QAM               | 3625.005        | Outer_Full    | 20         | LV             | -7.20            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV             | -8.20            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV             | -8.30            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV             | -6.60            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV             | -10.80           | -0.0030               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV             | -8.50            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV             | -6.60            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV             | -7.80            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV             | -10.30           | -0.0028               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV             | -8.40            | -0.0023               | >=-2.5 & <=2.5 | Pass    |
| 50                              | NV              | -9.30         | -0.0026    | >=-2.5 & <=2.5 | Pass             |                       |                |         |
| DFT-s-OFDM 64 QAM               | 3625.005        | Outer_Full    | 20         | LV             | -8.80            | -0.0024               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV             | -7.70            | -0.0021               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV             | -11.80           | -0.0033               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV             | -6.30            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV             | -6.30            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
| 0                               | NV              | -7.90         | -0.0022    | >=-2.5 & <=2.5 | Pass             |                       |                |         |



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|                    |          |            |              |                |            |         |                |       |
|--------------------|----------|------------|--------------|----------------|------------|---------|----------------|-------|
|                    |          |            | 10           | NV             | -7.00      | -0.0019 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 20           | NV             | -8.70      | -0.0024 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 30           | NV             | -8.10      | -0.0022 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 40           | NV             | -7.40      | -0.0020 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 50           | NV             | -8.40      | -0.0023 | >=-2.5 & <=2.5 | Pass  |
| DFT-s-OFDM 256 QAM | 3625.005 | Outer_Full | 20           | LV             | -9.20      | -0.0025 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            |              | HV             | -6.50      | -0.0018 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | -30          | NV             | -5.20      | -0.0014 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | -20          | NV             | -3.60      | -0.0010 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | -10          | NV             | -9.40      | -0.0026 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 0            | NV             | -6.80      | -0.0019 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 10           | NV             | -8.40      | -0.0023 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 20           | NV             | -8.30      | -0.0023 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 30           | NV             | -6.50      | -0.0018 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 40           | NV             | -9.50      | -0.0026 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 50           | NV             | -8.80      | -0.0024 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | CP-OFDM QPSK | 3625.005       | Outer_Full | 20      | LV             | -8.20 |
| HV                 | -6.50    | -0.0018    |              |                |            |         | >=-2.5 & <=2.5 | Pass  |
| -30                | NV       | -8.00      |              |                |            | -0.0022 | >=-2.5 & <=2.5 | Pass  |
| -20                | NV       | -7.60      |              |                |            | -0.0021 | >=-2.5 & <=2.5 | Pass  |
| -10                | NV       | -6.00      |              |                |            | -0.0017 | >=-2.5 & <=2.5 | Pass  |
| 0                  | NV       | -5.50      |              |                |            | -0.0015 | >=-2.5 & <=2.5 | Pass  |
| 10                 | NV       | -6.10      |              |                |            | -0.0017 | >=-2.5 & <=2.5 | Pass  |
| 20                 | NV       | -9.20      |              |                |            | -0.0025 | >=-2.5 & <=2.5 | Pass  |
| 30                 | NV       | -7.80      |              |                |            | -0.0022 | >=-2.5 & <=2.5 | Pass  |
| 40                 | NV       | -7.90      |              |                |            | -0.0022 | >=-2.5 & <=2.5 | Pass  |
| 50                 | NV       | -6.40      | -0.0018      | >=-2.5 & <=2.5 | Pass       |         |                |       |
| CP-OFDM 16 QAM     | 3625.005 | Outer_Full | 20           | LV             | -8.50      | -0.0023 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            |              | HV             | -7.60      | -0.0021 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | -30          | NV             | -7.60      | -0.0021 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | -20          | NV             | -5.00      | -0.0014 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | -10          | NV             | -7.30      | -0.0020 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 0            | NV             | -7.20      | -0.0020 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 10           | NV             | -6.40      | -0.0018 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 20           | NV             | -6.50      | -0.0018 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 30           | NV             | -5.90      | -0.0016 | >=-2.5 & <=2.5 | Pass  |
| 40                 | NV       | -9.40      | -0.0026      | >=-2.5 & <=2.5 | Pass       |         |                |       |
| 50                 | NV       | -9.00      | -0.0025      | >=-2.5 & <=2.5 | Pass       |         |                |       |
| CP-OFDM 64 QAM     | 3625.005 | Outer_Full | 20           | LV             | -8.40      | -0.0023 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            |              | HV             | -5.80      | -0.0016 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | -30          | NV             | -6.90      | -0.0019 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | -20          | NV             | -7.80      | -0.0022 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | -10          | NV             | -6.30      | -0.0017 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 0            | NV             | -5.30      | -0.0015 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 10           | NV             | -7.90      | -0.0022 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 20           | NV             | -5.90      | -0.0016 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 30           | NV             | -6.00      | -0.0017 | >=-2.5 & <=2.5 | Pass  |
| 40                 | NV       | -5.20      | -0.0014      | >=-2.5 & <=2.5 | Pass       |         |                |       |
| 50                 | NV       | -4.90      | -0.0014      | >=-2.5 & <=2.5 | Pass       |         |                |       |
| CP-OFDM 256 QAM    | 3625.005 | Outer_Full | 20           | LV             | -6.40      | -0.0018 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            |              | HV             | -8.30      | -0.0023 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | -30          | NV             | -6.20      | -0.0017 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | -10          | NV             | -5.70      | -0.0016 | >=-2.5 & <=2.5 | Pass  |



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|  |  |  |    |    |       |         |                |      |
|--|--|--|----|----|-------|---------|----------------|------|
|  |  |  | 0  | NV | -6.40 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 10 | NV | -5.80 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 20 | NV | -6.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 30 | NV | -3.50 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 40 | NV | -6.70 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 50 | NV | -7.10 | -0.0020 | >=-2.5 & <=2.5 | Pass |

## 8.7 15k SISO 50MHz

### 8.7.1 Test Result

| 5G NR n78d SCS=15kHz SISO 50MHz |                 |               |            |                |                  |                       |                |         |
|---------------------------------|-----------------|---------------|------------|----------------|------------------|-----------------------|----------------|---------|
| Modulation                      | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt.          | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                 |                 |               |            |                |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK            | 3625.005        | Outer_Full    | 20         | LV             | -2.90            | -0.0008               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV             | -4.50            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV             | -3.20            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV             | -5.60            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV             | -3.70            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV             | -5.90            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV             | -5.40            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV             | -4.10            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV             | -2.10            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV             | -4.60            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 50         | NV             | -4.70            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                 | 3625.005        | Outer_Full    | 20         | LV             | -5.70            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV             | -5.10            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV             | -4.90            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV             | -4.70            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV             | -4.30            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV             | -6.90            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV             | -4.20            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV             | -3.70            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV             | -5.80            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV             | -7.30            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
| 50                              | NV              | -7.00         | -0.0019    | >=-2.5 & <=2.5 | Pass             |                       |                |         |
| DFT-s-OFDM 16 QAM               | 3625.005        | Outer_Full    | 20         | LV             | -4.90            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV             | -9.70            | -0.0027               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV             | -9.30            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV             | -9.90            | -0.0027               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV             | -10.20           | -0.0028               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV             | -7.90            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV             | -7.50            | -0.0021               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV             | -7.50            | -0.0021               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV             | -10.80           | -0.0030               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV             | -10.00           | -0.0028               | >=-2.5 & <=2.5 | Pass    |
| 50                              | NV              | -11.10        | -0.0031    | >=-2.5 & <=2.5 | Pass             |                       |                |         |
| DFT-s-OFDM 64 QAM               | 3625.005        | Outer_Full    | 20         | LV             | -9.60            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV             | -9.00            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV             | -9.60            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV             | -10.30           | -0.0028               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV             | -8.40            | -0.0023               | >=-2.5 & <=2.5 | Pass    |



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|                    |          |            |              |                |            |         |                |       |
|--------------------|----------|------------|--------------|----------------|------------|---------|----------------|-------|
|                    |          |            | 0            | NV             | -7.30      | -0.0020 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 10           | NV             | -10.00     | -0.0028 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 20           | NV             | -8.00      | -0.0022 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 30           | NV             | -10.00     | -0.0028 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 40           | NV             | -10.40     | -0.0029 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 50           | NV             | -7.50      | -0.0021 | >=-2.5 & <=2.5 | Pass  |
| DFT-s-OFDM 256 QAM | 3625.005 | Outer_Full | 20           | LV             | -9.00      | -0.0025 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            |              | HV             | -9.60      | -0.0026 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | -30          | NV             | -6.40      | -0.0018 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | -20          | NV             | -7.40      | -0.0020 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | -10          | NV             | -7.80      | -0.0022 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 0            | NV             | -8.40      | -0.0023 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 10           | NV             | -8.50      | -0.0023 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 20           | NV             | -6.10      | -0.0017 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 30           | NV             | -5.10      | -0.0014 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 40           | NV             | -9.50      | -0.0026 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 50           | NV             | -7.40      | -0.0020 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | CP-OFDM QPSK | 3625.005       | Outer_Full | 20      | LV             | -8.40 |
|                    | HV       | -6.50      |              |                |            | -0.0018 | >=-2.5 & <=2.5 | Pass  |
| -30                | NV       | -9.00      |              |                |            | -0.0025 | >=-2.5 & <=2.5 | Pass  |
| -20                | NV       | -11.10     |              |                |            | -0.0031 | >=-2.5 & <=2.5 | Pass  |
| -10                | NV       | -8.00      |              |                |            | -0.0022 | >=-2.5 & <=2.5 | Pass  |
| 0                  | NV       | -9.80      |              |                |            | -0.0027 | >=-2.5 & <=2.5 | Pass  |
| 10                 | NV       | -7.40      |              |                |            | -0.0020 | >=-2.5 & <=2.5 | Pass  |
| 20                 | NV       | -9.00      |              |                |            | -0.0025 | >=-2.5 & <=2.5 | Pass  |
| 30                 | NV       | -8.90      |              |                |            | -0.0025 | >=-2.5 & <=2.5 | Pass  |
| 40                 | NV       | -8.00      |              |                |            | -0.0022 | >=-2.5 & <=2.5 | Pass  |
| 50                 | NV       | -8.10      | -0.0022      | >=-2.5 & <=2.5 | Pass       |         |                |       |
| CP-OFDM 16 QAM     | 3625.005 | Outer_Full | 20           | LV             | -7.00      | -0.0019 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            |              | HV             | -9.30      | -0.0026 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | -30          | NV             | -6.30      | -0.0017 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | -20          | NV             | -6.80      | -0.0019 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | -10          | NV             | -7.70      | -0.0021 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 0            | NV             | -6.30      | -0.0017 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 10           | NV             | -5.70      | -0.0016 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 20           | NV             | -7.50      | -0.0021 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 30           | NV             | -8.20      | -0.0023 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 40           | NV             | -4.30      | -0.0012 | >=-2.5 & <=2.5 | Pass  |
| 50                 | NV       | -6.30      | -0.0017      | >=-2.5 & <=2.5 | Pass       |         |                |       |
| CP-OFDM 64 QAM     | 3625.005 | Outer_Full | 20           | LV             | -3.10      | -0.0009 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            |              | HV             | -8.70      | -0.0024 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | -30          | NV             | -8.70      | -0.0024 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | -20          | NV             | -5.70      | -0.0016 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | -10          | NV             | -7.60      | -0.0021 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 0            | NV             | -8.00      | -0.0022 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 10           | NV             | -6.40      | -0.0018 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 20           | NV             | -8.70      | -0.0024 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 30           | NV             | -5.40      | -0.0015 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | 40           | NV             | -8.00      | -0.0022 | >=-2.5 & <=2.5 | Pass  |
| 50                 | NV       | -8.90      | -0.0025      | >=-2.5 & <=2.5 | Pass       |         |                |       |
| CP-OFDM 256 QAM    | 3625.005 | Outer_Full | 20           | LV             | -7.90      | -0.0022 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            |              | HV             | -6.40      | -0.0018 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | -30          | NV             | -9.80      | -0.0027 | >=-2.5 & <=2.5 | Pass  |
|                    |          |            | -20          | NV             | -6.40      | -0.0018 | >=-2.5 & <=2.5 | Pass  |



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|  |  |  |     |    |       |         |                |      |
|--|--|--|-----|----|-------|---------|----------------|------|
|  |  |  | -10 | NV | -8.10 | -0.0022 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 0   | NV | -8.90 | -0.0025 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 10  | NV | -4.30 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 20  | NV | -7.30 | -0.0020 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 30  | NV | -8.60 | -0.0024 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 40  | NV | -8.40 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 50  | NV | -7.10 | -0.0020 | >=-2.5 & <=2.5 | Pass |

## 8.8 30k\_SISO\_10MHz

### 8.8.1 Test Result

| 5G NR n78d SCS=30kHz SISO 10MHz |                 |               |            |       |                  |                       |                |         |
|---------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                      | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                 |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK            | 3624.99         | Outer_Full    | 20         | LV    | -3.50            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | 2.00             | 0.0006                | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -4.80            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -3.50            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -3.40            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -3.00            | -0.0008               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -3.10            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -2.60            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -3.70            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -1.90            | -0.0005               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                 | 3624.99         | Outer_Full    | 20         | LV    | 1.70             | 0.0005                | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -4.80            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -4.40            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -1.60            | -0.0004               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -4.30            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -6.20            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | 0.90             | 0.0002                | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -3.30            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -3.80            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -1.10            | -0.0003               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM               | 3624.99         | Outer_Full    | 20         | LV    | -3.60            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -6.40            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -4.70            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -3.80            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -6.90            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -7.40            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -9.50            | -0.0026               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -5.20            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -5.60            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -4.90            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 64 QAM               | 3624.99         | Outer_Full    | 20         | LV    | -5.90            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -9.10            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -5.70            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -6.10            | -0.0017               | >=-2.5 & <=2.5 | Pass    |



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|                    |         |            |     |    |       |         |                |      |
|--------------------|---------|------------|-----|----|-------|---------|----------------|------|
|                    |         |            | -10 | NV | -6.30 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -6.40 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -4.60 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -2.80 | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -4.60 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -7.70 | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -7.10 | -0.0020 | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 256 QAM | 3624.99 | Outer_Full | 20  | LV | -6.10 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -5.40 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -3.70 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -6.30 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -5.20 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -3.10 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -4.20 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -7.10 | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -6.90 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -2.80 | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -6.50 | -0.0018 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM QPSK       | 3624.99 | Outer_Full | 20  | LV | -3.10 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -2.60 | -0.0007 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -2.40 | -0.0007 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -5.60 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -5.10 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -3.20 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -4.00 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -4.70 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -4.40 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -3.80 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -7.70 | -0.0021 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 16 QAM     | 3624.99 | Outer_Full | 20  | LV | -4.50 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -7.00 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -1.60 | -0.0004 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -5.60 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -6.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -4.00 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -2.20 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -6.80 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -2.90 | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | 1.40  | 0.0004  | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -5.20 | -0.0014 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 64 QAM     | 3624.99 | Outer_Full | 20  | LV | -4.70 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -5.20 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -6.10 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -5.30 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -8.20 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -4.70 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -1.90 | -0.0005 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -3.60 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -5.80 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -4.20 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -4.00 | -0.0011 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 256 QAM    | 3624.99 | Outer_Full | 20  | LV | -8.40 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -4.40 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -3.90 | -0.0011 | >=-2.5 & <=2.5 | Pass |



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|  |  |  |     |    |       |         |                |      |
|--|--|--|-----|----|-------|---------|----------------|------|
|  |  |  | -20 | NV | -3.90 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|  |  |  | -10 | NV | -6.20 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 0   | NV | -3.90 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 10  | NV | -1.90 | -0.0005 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 20  | NV | -5.70 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 30  | NV | -5.10 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 40  | NV | -4.60 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 50  | NV | -5.30 | -0.0015 | >=-2.5 & <=2.5 | Pass |

## 8.9 30k\_SISO\_15MHz

### 8.9.1 Test Result

| 5G NR n78d SCS=30kHz SISO 15MHz |                 |               |            |       |                  |                       |                |         |
|---------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                      | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                 |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK            | 3624.99         | Outer_Full    | 20         | LV    | -2.60            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -2.00            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -2.30            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -4.10            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -5.40            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | 2.10             | 0.0006                | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -3.20            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -6.30            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -4.50            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -2.70            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 50         | NV    | -2.70            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                 | 3624.99         | Outer_Full    | 20         | LV    | 2.50             | 0.0007                | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | 2.90             | 0.0008                | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | 0.90             | 0.0002                | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -2.10            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -3.60            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -6.30            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -3.90            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -3.00            | -0.0008               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -5.00            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -2.10            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 50         | NV    | -3.50            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM               | 3624.99         | Outer_Full    | 20         | LV    | -6.20            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -4.30            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -5.70            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -4.30            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -3.10            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -4.30            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -4.40            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -6.30            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -4.50            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -6.40            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 50         | NV    | -4.30            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 64 QAM               | 3624.99         | Outer_Full    | 20         | LV    | -5.60            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -6.70            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -3.30            | -0.0009               | >=-2.5 & <=2.5 | Pass    |



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|                    |         |            |     |    |       |         |                |      |
|--------------------|---------|------------|-----|----|-------|---------|----------------|------|
|                    |         |            | -20 | NV | -3.50 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -4.50 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -5.30 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -6.10 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -6.60 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -4.10 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -2.10 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -5.10 | -0.0014 | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 256 QAM | 3624.99 | Outer_Full | 20  | LV | -3.50 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -5.60 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -5.50 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -7.20 | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -4.20 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -6.20 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -3.30 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -4.90 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -5.30 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -4.50 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -8.70 | -0.0024 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM QPSK       | 3624.99 | Outer_Full | 20  | LV | -2.70 | -0.0007 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -4.70 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -4.70 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -3.20 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -2.20 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -3.60 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -5.10 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -5.30 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -5.70 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -6.30 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -6.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 16 QAM     | 3624.99 | Outer_Full | 20  | LV | -4.30 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -6.90 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -3.70 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -4.50 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -7.50 | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -5.40 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -5.20 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -3.20 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -3.90 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -6.10 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -2.40 | -0.0007 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 64 QAM     | 3624.99 | Outer_Full | 20  | LV | -4.60 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -9.70 | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -4.20 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -6.50 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -6.90 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -5.60 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -5.30 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -4.10 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -3.00 | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -6.50 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | 3.20  | 0.0009  | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 256 QAM    | 3624.99 | Outer_Full | 20  | LV | -2.20 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -3.90 | -0.0011 | >=-2.5 & <=2.5 | Pass |



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|  |  |  |     |    |       |         |                |      |
|--|--|--|-----|----|-------|---------|----------------|------|
|  |  |  | -30 | NV | -6.60 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|  |  |  | -20 | NV | -5.80 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|  |  |  | -10 | NV | -4.00 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 0   | NV | -6.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 10  | NV | -1.50 | -0.0004 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 20  | NV | -4.50 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 30  | NV | -1.00 | -0.0003 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 40  | NV | -4.50 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 50  | NV | -5.70 | -0.0016 | >=-2.5 & <=2.5 | Pass |

## 8.10 30k\_SISO\_20MHz

### 8.10.1 Test Result

| 5G NR n78d SCS=30kHz SISO 20MHz |                 |               |            |       |                  |                       |                |         |
|---------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                      | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                 |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK            | 3624.99         | Outer_Full    | 20         | LV    | 1.70             | 0.0005                | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -3.80            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -4.40            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -5.20            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -3.70            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | 2.10             | 0.0006                | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | 1.90             | 0.0005                | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | 5.40             | 0.0015                | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -6.70            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -2.60            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                 | 3624.99         | Outer_Full    | 20         | LV    | -4.70            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | 2.40             | 0.0007                | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -3.10            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -1.70            | -0.0005               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | 2.20             | 0.0006                | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | 3.50             | 0.0010                | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | 1.40             | 0.0004                | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -1.20            | -0.0003               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -2.60            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -2.80            | -0.0008               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM               | 3624.99         | Outer_Full    | 20         | LV    | -4.10            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -6.00            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -6.20            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -7.00            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -6.20            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -3.70            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -6.90            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -5.30            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -6.50            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -4.10            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 64 QAM               | 3624.99         | Outer_Full    | 20         | LV    | 1.90             | 0.0005                | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -3.50            | -0.0010               | >=-2.5 & <=2.5 | Pass    |



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|                    |         |            |     |    |       |         |                |      |
|--------------------|---------|------------|-----|----|-------|---------|----------------|------|
|                    |         |            | -30 | NV | -3.90 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -2.80 | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -4.40 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -4.20 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -5.90 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -8.60 | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -8.40 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -2.10 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -2.90 | -0.0008 | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 256 QAM | 3624.99 | Outer_Full | 20  | LV | -6.50 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -6.50 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -4.30 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -5.70 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -4.70 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -4.90 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -5.90 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -5.90 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -2.80 | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -0.80 | -0.0002 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM QPSK       | 3624.99 | Outer_Full | 50  | NV | -4.00 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | LV | -4.80 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -1.50 | -0.0004 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -4.90 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -5.10 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -2.80 | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -7.40 | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -4.20 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -6.10 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -7.30 | -0.0020 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 16 QAM     | 3624.99 | Outer_Full | 40  | NV | -4.10 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -6.60 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | LV | -3.40 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -4.80 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -5.50 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -5.70 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -3.50 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -6.80 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -5.30 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | NV | -5.50 | -0.0015 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 64 QAM     | 3624.99 | Outer_Full | 30  | NV | -4.80 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -6.10 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -3.30 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | LV | -6.20 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |     | HV | -2.60 | -0.0007 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30 | NV | -6.90 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20 | NV | -4.40 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10 | NV | -2.80 | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0   | NV | -4.50 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10  | NV | -2.60 | -0.0007 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 256 QAM    | 3624.99 | Outer_Full | 20  | NV | -6.60 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30  | NV | -7.70 | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40  | NV | -4.60 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50  | NV | -5.30 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20  | LV | -7.00 | -0.0019 | >=-2.5 & <=2.5 | Pass |



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|  |  |  |     |    |       |         |                |      |
|--|--|--|-----|----|-------|---------|----------------|------|
|  |  |  |     | HV | -6.40 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|  |  |  | -30 | NV | -4.70 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|  |  |  | -20 | NV | -5.90 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|  |  |  | -10 | NV | -6.60 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 0   | NV | -3.90 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 10  | NV | -4.10 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 20  | NV | -6.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 30  | NV | -3.60 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 40  | NV | -5.90 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|  |  |  | 50  | NV | -5.50 | -0.0015 | >=-2.5 & <=2.5 | Pass |

## 8.11 30k\_SISO\_25MHz

### 8.11.1 Test Result

| 5G NR n78d SCS=30kHz SISO 25MHz |                 |               |            |       |                  |                       |                |         |
|---------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                      | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                 |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK            | 3624.99         | Outer_Full    | 20         | LV    | -4.90            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -1.90            | -0.0005               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -1.80            | -0.0005               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -3.40            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -5.00            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -3.40            | -0.0009               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -2.00            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -6.10            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -1.60            | -0.0004               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -1.10            | -0.0003               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                 | 3624.99         | Outer_Full    | 20         | LV    | -3.50            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -4.20            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -6.10            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -1.40            | -0.0004               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -1.20            | -0.0003               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -4.10            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -5.20            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -4.70            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -4.30            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -2.00            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM               | 3624.99         | Outer_Full    | 20         | LV    | -3.70            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -5.40            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -7.10            | -0.0020               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -6.60            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -6.40            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -8.10            | -0.0022               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -11.40           | -0.0031               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -4.60            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -4.10            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -4.60            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 64 QAM               | 3624.99         | Outer_Full    | 20         | NV    | -3.90            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | LV    | -6.50            | -0.0018               | >=-2.5 & <=2.5 | Pass    |



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|                    |         |            |         |                |       |         |                |      |
|--------------------|---------|------------|---------|----------------|-------|---------|----------------|------|
|                    |         |            |         | HV             | -5.90 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -5.30 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -8.70 | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -5.50 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -9.80 | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -3.00 | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -6.90 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -5.20 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -5.20 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 50      | NV             | -5.00 | -0.0014 | >=-2.5 & <=2.5 | Pass |
| DFT-s-OFDM 256 QAM | 3624.99 | Outer_Full | 20      | LV             | -6.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -7.40 | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -5.10 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -5.10 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -4.90 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -6.90 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -9.10 | -0.0025 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -8.60 | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -3.90 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -7.70 | -0.0021 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -8.30      | -0.0023 | >=-2.5 & <=2.5 | Pass  |         |                |      |
| CP-OFDM QPSK       | 3624.99 | Outer_Full | 20      | LV             | -6.60 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -3.00 | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -3.80 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -3.40 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -3.60 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -6.30 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -5.00 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -4.10 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -1.50 | -0.0004 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -4.40 | -0.0012 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -5.20      | -0.0014 | >=-2.5 & <=2.5 | Pass  |         |                |      |
| CP-OFDM 16 QAM     | 3624.99 | Outer_Full | 20      | LV             | -7.20 | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -4.70 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -7.80 | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -3.00 | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -6.80 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -8.80 | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -8.80 | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -4.10 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -5.10 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -5.00 | -0.0014 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -5.80      | -0.0016 | >=-2.5 & <=2.5 | Pass  |         |                |      |
| CP-OFDM 64 QAM     | 3624.99 | Outer_Full | 20      | LV             | -1.20 | -0.0003 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -3.90 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -5.60 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -3.00 | -0.0008 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -8.20 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -2.30 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -5.10 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -5.50 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -5.10 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -6.30 | -0.0017 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -7.30      | -0.0020 | >=-2.5 & <=2.5 | Pass  |         |                |      |



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|                 |         |            |     |    |       |         |                |      |
|-----------------|---------|------------|-----|----|-------|---------|----------------|------|
| CP-OFDM 256 QAM | 3624.99 | Outer_Full | 20  | LV | -5.30 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                 |         |            |     | HV | -5.00 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -30 | NV | -5.20 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -20 | NV | -3.60 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -10 | NV | -5.60 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 0   | NV | -5.60 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 10  | NV | -6.30 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 20  | NV | -4.90 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 30  | NV | -4.50 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 40  | NV | -8.70 | -0.0024 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 50  | NV | -6.10 | -0.0017 | >=-2.5 & <=2.5 | Pass |

## 8.12 30k\_SISO\_30MHz

### 8.12.1 Test Result

| 5G NR n78d SCS=30kHz SISO 30MHz |                 |               |            |       |                  |                       |                |         |
|---------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                      | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                 |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK            | 3624.99         | Outer_Full    | 20         | LV    | 3.10             | 0.0009                | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -6.00            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -3.50            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -3.60            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -4.50            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -5.10            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -3.50            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -6.60            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | 3.00             | 0.0008                | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -5.70            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                 | 3624.99         | Outer_Full    | 20         | LV    | 3.00             | 0.0008                | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -4.60            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -5.00            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -6.00            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -4.20            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -2.70            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -2.20            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -4.40            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -2.70            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -5.20            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM               | 3624.99         | Outer_Full    | 20         | LV    | -6.20            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -6.70            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -4.50            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -5.90            | -0.0016               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -6.00            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -4.40            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -6.20            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -7.00            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -8.90            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -6.30            | -0.0017               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 50         | NV    | -7.70            | -0.0021               | >=-2.5 & <=2.5 | Pass    |



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|                    |         |            |         |                |       |         |                |      |
|--------------------|---------|------------|---------|----------------|-------|---------|----------------|------|
| DFT-s-OFDM 64 QAM  | 3624.99 | Outer_Full | 20      | LV             | -2.60 | -0.0007 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -6.40 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -3.40 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | 2.00  | 0.0006  | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -5.60 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -6.40 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -9.70 | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -3.50 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -3.70 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -6.60 | -0.0018 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -7.10      | -0.0020 | >=-2.5 & <=2.5 | Pass  |         |                |      |
| DFT-s-OFDM 256 QAM | 3624.99 | Outer_Full | 20      | LV             | -6.30 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -4.80 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -6.60 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -5.90 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -4.90 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -3.70 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -6.70 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -7.50 | -0.0021 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -6.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -5.60 | -0.0015 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -4.80      | -0.0013 | >=-2.5 & <=2.5 | Pass  |         |                |      |
| CP-OFDM QPSK       | 3624.99 | Outer_Full | 20      | LV             | -3.30 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -3.90 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -3.20 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -5.40 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -8.10 | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -5.40 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -5.80 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -5.40 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -4.80 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -3.90 | -0.0011 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -6.00      | -0.0017 | >=-2.5 & <=2.5 | Pass  |         |                |      |
| CP-OFDM 16 QAM     | 3624.99 | Outer_Full | 20      | LV             | -3.20 | -0.0009 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -2.70 | -0.0007 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -4.00 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -5.90 | -0.0016 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -4.00 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -4.90 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -6.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -6.30 | -0.0017 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -4.60 | -0.0013 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 40      | NV             | -3.80 | -0.0010 | >=-2.5 & <=2.5 | Pass |
| 50                 | NV      | -3.10      | -0.0009 | >=-2.5 & <=2.5 | Pass  |         |                |      |
| CP-OFDM 64 QAM     | 3624.99 | Outer_Full | 20      | LV             | -4.00 | -0.0011 | >=-2.5 & <=2.5 | Pass |
|                    |         |            |         | HV             | -2.10 | -0.0006 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -30     | NV             | -7.40 | -0.0020 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -20     | NV             | -9.80 | -0.0027 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | -10     | NV             | -3.80 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 0       | NV             | -4.30 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 10      | NV             | -4.30 | -0.0012 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 20      | NV             | -3.70 | -0.0010 | >=-2.5 & <=2.5 | Pass |
|                    |         |            | 30      | NV             | -5.60 | -0.0015 | >=-2.5 & <=2.5 | Pass |
| 40                 | NV      | -5.90      | -0.0016 | >=-2.5 & <=2.5 | Pass  |         |                |      |



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|                 |         |            |     |    |       |         |                |      |
|-----------------|---------|------------|-----|----|-------|---------|----------------|------|
|                 |         |            | 50  | NV | -6.00 | -0.0017 | >=-2.5 & <=2.5 | Pass |
| CP-OFDM 256 QAM | 3624.99 | Outer_Full | 20  | LV | -4.90 | -0.0014 | >=-2.5 & <=2.5 | Pass |
|                 |         |            |     | HV | -6.90 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -30 | NV | -7.80 | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -20 | NV | -8.00 | -0.0022 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | -10 | NV | -6.50 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 0   | NV | -6.90 | -0.0019 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 10  | NV | -5.50 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 20  | NV | -8.20 | -0.0023 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 30  | NV | -6.50 | -0.0018 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 40  | NV | -5.30 | -0.0015 | >=-2.5 & <=2.5 | Pass |
|                 |         |            | 50  | NV | -8.00 | -0.0022 | >=-2.5 & <=2.5 | Pass |

## 8.13 30k\_SISO\_40MHz

### 8.13.1 Test Result

| 5G NR n78d SCS=30kHz SISO 40MHz |                 |               |            |       |                  |                       |                |         |
|---------------------------------|-----------------|---------------|------------|-------|------------------|-----------------------|----------------|---------|
| Modulation                      | Frequency (MHz) | RB Allocation | Temp. (°C) | Volt. | Freq. Error (Hz) | Freq. vs. rated (ppm) |                | Verdict |
|                                 |                 |               |            |       |                  | Result                | Limit          |         |
| DFT-s-OFDM PI/2 BPSK            | 3624.99         | Outer_Full    | 20         | LV    | -3.50            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -4.60            | -0.0013               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -4.20            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -3.80            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -1.10            | -0.0003               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -4.90            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -3.80            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -2.90            | -0.0008               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -1.80            | -0.0005               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -2.00            | -0.0006               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM QPSK                 | 3624.99         | Outer_Full    | 20         | LV    | -3.70            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -1.60            | -0.0004               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -1.50            | -0.0004               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | 3.10             | 0.0009                | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -2.70            | -0.0007               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -3.60            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -3.70            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -3.50            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -4.10            | -0.0011               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -10.10           | -0.0028               | >=-2.5 & <=2.5 | Pass    |
| DFT-s-OFDM 16 QAM               | 3624.99         | Outer_Full    | 20         | LV    | -5.50            | -0.0015               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               |            | HV    | -8.80            | -0.0024               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -30        | NV    | -8.90            | -0.0025               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -20        | NV    | -6.90            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | -10        | NV    | -4.40            | -0.0012               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 0          | NV    | -6.70            | -0.0018               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 10         | NV    | -3.60            | -0.0010               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 20         | NV    | -5.20            | -0.0014               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 30         | NV    | -7.00            | -0.0019               | >=-2.5 & <=2.5 | Pass    |
|                                 |                 |               | 40         | NV    | -7.10            | -0.0020               | >=-2.5 & <=2.5 | Pass    |



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