

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

### 1.1.1 B30\_5MHz\_EIRP

| Band: 30 / Bandwidth: 5MHz / NTNV |                 |               |        |                       |            |            |         |         |
|-----------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|---------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |         | Verdict |
|                                   |                 | Size          | Offset |                       |            | Result     | Limit   |         |
| QPSK                              | 2307.5          | 1             | 0      | 22.06                 | 1.39       | 23.45      | <=23.98 | Pass    |
|                                   |                 |               | 13     | 22.01                 | 1.39       | 23.4       | <=23.98 | Pass    |
|                                   |                 |               | 24     | 22.01                 | 1.39       | 23.4       | <=23.98 | Pass    |
|                                   |                 | 12            | 0      | 20.90                 | 1.39       | 22.29      | <=23.98 | Pass    |
|                                   |                 |               | 6      | 20.86                 | 1.39       | 22.25      | <=23.98 | Pass    |
|                                   |                 |               | 13     | 20.79                 | 1.39       | 22.18      | <=23.98 | Pass    |
|                                   |                 | 25            | 0      | 20.87                 | 1.39       | 22.26      | <=23.98 | Pass    |
|                                   | 2310            | 1             | 0      | 21.99                 | 1.39       | 23.38      | <=23.98 | Pass    |
|                                   |                 |               | 13     | 21.78                 | 1.39       | 23.17      | <=23.98 | Pass    |
|                                   |                 |               | 24     | 21.52                 | 1.39       | 22.91      | <=23.98 | Pass    |
|                                   |                 | 12            | 0      | 20.89                 | 1.39       | 22.28      | <=23.98 | Pass    |
|                                   |                 |               | 6      | 20.83                 | 1.39       | 22.22      | <=23.98 | Pass    |
|                                   |                 |               | 13     | 20.78                 | 1.39       | 22.17      | <=23.98 | Pass    |
|                                   |                 | 25            | 0      | 20.87                 | 1.39       | 22.26      | <=23.98 | Pass    |
|                                   | 2312.5          | 1             | 0      | 21.44                 | 1.39       | 22.83      | <=23.98 | Pass    |
|                                   |                 |               | 13     | 21.43                 | 1.39       | 22.82      | <=23.98 | Pass    |
|                                   |                 |               | 24     | 21.42                 | 1.39       | 22.81      | <=23.98 | Pass    |
|                                   |                 | 12            | 0      | 20.89                 | 1.39       | 22.28      | <=23.98 | Pass    |
|                                   |                 |               | 6      | 20.85                 | 1.39       | 22.24      | <=23.98 | Pass    |
|                                   |                 |               | 13     | 20.82                 | 1.39       | 22.21      | <=23.98 | Pass    |
|                                   |                 | 25            | 0      | 20.84                 | 1.39       | 22.23      | <=23.98 | Pass    |
| 16QAM                             | 2307.5          | 1             | 0      | 20.99                 | 1.39       | 22.38      | <=23.98 | Pass    |
|                                   |                 |               | 13     | 20.93                 | 1.39       | 22.32      | <=23.98 | Pass    |
|                                   |                 |               | 24     | 20.92                 | 1.39       | 22.31      | <=23.98 | Pass    |
|                                   |                 | 12            | 0      | 19.92                 | 1.39       | 21.31      | <=23.98 | Pass    |
|                                   |                 |               | 6      | 19.85                 | 1.39       | 21.24      | <=23.98 | Pass    |
|                                   |                 |               | 13     | 19.76                 | 1.39       | 21.15      | <=23.98 | Pass    |
|                                   |                 | 25            | 0      | 19.89                 | 1.39       | 21.28      | <=23.98 | Pass    |
|                                   | 2310            | 1             | 0      | 20.54                 | 1.39       | 21.93      | <=23.98 | Pass    |
|                                   |                 |               | 13     | 20.49                 | 1.39       | 21.88      | <=23.98 | Pass    |
|                                   |                 |               | 24     | 20.48                 | 1.39       | 21.87      | <=23.98 | Pass    |
|                                   |                 | 12            | 0      | 19.94                 | 1.39       | 21.33      | <=23.98 | Pass    |
|                                   |                 |               | 6      | 19.81                 | 1.39       | 21.2       | <=23.98 | Pass    |
|                                   |                 |               | 13     | 19.80                 | 1.39       | 21.19      | <=23.98 | Pass    |
|                                   |                 | 25            | 0      | 19.89                 | 1.39       | 21.28      | <=23.98 | Pass    |
|                                   | 2312.5          | 1             | 0      | 20.55                 | 1.39       | 21.94      | <=23.98 | Pass    |
|                                   |                 |               | 13     | 20.54                 | 1.39       | 21.93      | <=23.98 | Pass    |
|                                   |                 |               | 24     | 20.54                 | 1.39       | 21.93      | <=23.98 | Pass    |
|                                   |                 | 12            | 0      | 19.85                 | 1.39       | 21.24      | <=23.98 | Pass    |
|                                   |                 |               | 6      | 19.85                 | 1.39       | 21.24      | <=23.98 | Pass    |
|                                   |                 |               | 13     | 19.84                 | 1.39       | 21.23      | <=23.98 | Pass    |
|                                   |                 | 25            | 0      | 19.80                 | 1.39       | 21.19      | <=23.98 | Pass    |
| 64QAM                             | 2307.5          | 1             | 0      | 19.84                 | 1.39       | 21.23      | <=23.98 | Pass    |
|                                   |                 |               | 13     | 19.78                 | 1.39       | 21.17      | <=23.98 | Pass    |
|                                   |                 |               | 24     | 19.62                 | 1.39       | 21.01      | <=23.98 | Pass    |
|                                   |                 | 12            | 0      | 18.94                 | 1.39       | 20.33      | <=23.98 | Pass    |
|                                   |                 |               | 6      | 18.84                 | 1.39       | 20.23      | <=23.98 | Pass    |
|                                   |                 |               | 13     | 18.77                 | 1.39       | 20.16      | <=23.98 | Pass    |
|                                   |                 | 25            | 0      | 18.85                 | 1.39       | 20.24      | <=23.98 | Pass    |

|                                          |        |    |    |       |      |       |         |      |
|------------------------------------------|--------|----|----|-------|------|-------|---------|------|
|                                          | 2310   | 1  | 0  | 19.65 | 1.39 | 21.04 | <=23.98 | Pass |
|                                          |        |    | 13 | 19.58 | 1.39 | 20.97 | <=23.98 | Pass |
|                                          |        |    | 24 | 19.58 | 1.39 | 20.97 | <=23.98 | Pass |
|                                          |        | 12 | 0  | 18.93 | 1.39 | 20.32 | <=23.98 | Pass |
|                                          |        |    | 6  | 18.84 | 1.39 | 20.23 | <=23.98 | Pass |
|                                          |        |    | 13 | 18.79 | 1.39 | 20.18 | <=23.98 | Pass |
|                                          |        | 25 | 0  | 18.86 | 1.39 | 20.25 | <=23.98 | Pass |
|                                          | 2312.5 | 1  | 0  | 19.90 | 1.39 | 21.29 | <=23.98 | Pass |
|                                          |        |    | 13 | 19.85 | 1.39 | 21.24 | <=23.98 | Pass |
|                                          |        |    | 24 | 19.85 | 1.39 | 21.24 | <=23.98 | Pass |
|                                          |        | 12 | 0  | 18.85 | 1.39 | 20.24 | <=23.98 | Pass |
|                                          |        |    | 6  | 18.84 | 1.39 | 20.23 | <=23.98 | Pass |
|                                          |        |    | 13 | 18.82 | 1.39 | 20.21 | <=23.98 | Pass |
|                                          |        | 25 | 0  | 18.79 | 1.39 | 20.18 | <=23.98 | Pass |
| 256QAM                                   | 2307.5 | 1  | 0  | 17.31 | 1.39 | 18.7  | <=23.98 | Pass |
|                                          |        |    | 13 | 17.29 | 1.39 | 18.68 | <=23.98 | Pass |
|                                          |        |    | 24 | 17.29 | 1.39 | 18.68 | <=23.98 | Pass |
|                                          |        | 12 | 0  | 17.01 | 1.39 | 18.4  | <=23.98 | Pass |
|                                          |        |    | 6  | 16.97 | 1.39 | 18.36 | <=23.98 | Pass |
|                                          |        |    | 13 | 16.91 | 1.39 | 18.3  | <=23.98 | Pass |
|                                          |        | 25 | 0  | 17.01 | 1.39 | 18.4  | <=23.98 | Pass |
|                                          | 2310   | 1  | 0  | 17.32 | 1.39 | 18.71 | <=23.98 | Pass |
|                                          |        |    | 13 | 17.28 | 1.39 | 18.67 | <=23.98 | Pass |
|                                          |        |    | 24 | 17.26 | 1.39 | 18.65 | <=23.98 | Pass |
|                                          |        | 12 | 0  | 16.99 | 1.39 | 18.38 | <=23.98 | Pass |
|                                          |        |    | 6  | 16.92 | 1.39 | 18.31 | <=23.98 | Pass |
|                                          |        |    | 13 | 16.90 | 1.39 | 18.29 | <=23.98 | Pass |
|                                          |        | 25 | 0  | 16.97 | 1.39 | 18.36 | <=23.98 | Pass |
|                                          | 2312.5 | 1  | 0  | 17.08 | 1.39 | 18.47 | <=23.98 | Pass |
|                                          |        |    | 13 | 17.06 | 1.39 | 18.45 | <=23.98 | Pass |
|                                          |        |    | 24 | 17.04 | 1.39 | 18.43 | <=23.98 | Pass |
|                                          |        | 12 | 0  | 16.94 | 1.39 | 18.33 | <=23.98 | Pass |
|                                          |        |    | 6  | 16.91 | 1.39 | 18.3  | <=23.98 | Pass |
|                                          |        |    | 13 | 16.92 | 1.39 | 18.31 | <=23.98 | Pass |
|                                          |        | 25 | 0  | 16.94 | 1.39 | 18.33 | <=23.98 | Pass |
| Note1: EIRP=Conducted Power+Antenna Gain |        |    |    |       |      |       |         |      |

### 1.1.3 B30\_10MHz\_EIRP

| Band: 30 / Bandwidth: 10MHz / NTNV |                 |               |        |                       |            |            |         |         |
|------------------------------------|-----------------|---------------|--------|-----------------------|------------|------------|---------|---------|
| Modulation                         | Frequency (MHz) | RB Allocation |        | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |         | Verdict |
|                                    |                 | Size          | Offset |                       |            | Result     | Limit   |         |
| QPSK                               | 2310            | 1             | 0      | 21.45                 | 1.39       | 22.84      | <=23.98 | Pass    |
|                                    |                 |               | 25     | 21.38                 | 1.39       | 22.77      | <=23.98 | Pass    |
|                                    |                 |               | 49     | 21.31                 | 1.39       | 22.7       | <=23.98 | Pass    |
|                                    |                 | 25            | 0      | 20.95                 | 1.39       | 22.34      | <=23.98 | Pass    |
|                                    |                 |               | 13     | 20.84                 | 1.39       | 22.23      | <=23.98 | Pass    |
|                                    |                 |               | 25     | 20.83                 | 1.39       | 22.22      | <=23.98 | Pass    |
|                                    |                 | 50            | 0      | 20.92                 | 1.39       | 22.31      | <=23.98 | Pass    |
| 16QAM                              | 2310            | 1             | 0      | 20.63                 | 1.39       | 22.02      | <=23.98 | Pass    |
|                                    |                 |               | 25     | 20.54                 | 1.39       | 21.93      | <=23.98 | Pass    |
|                                    |                 |               | 49     | 20.50                 | 1.39       | 21.89      | <=23.98 | Pass    |
|                                    |                 | 25            | 0      | 19.93                 | 1.39       | 21.32      | <=23.98 | Pass    |
|                                    |                 |               | 13     | 19.84                 | 1.39       | 21.23      | <=23.98 | Pass    |
|                                    |                 |               | 25     | 19.81                 | 1.39       | 21.2       | <=23.98 | Pass    |
|                                    |                 | 50            | 0      | 19.88                 | 1.39       | 21.27      | <=23.98 | Pass    |
| 64QAM                              | 2310            | 1             | 0      | 19.34                 | 1.39       | 20.73      | <=23.98 | Pass    |

|                                          |       |        |      |       |      |       |         |       |
|------------------------------------------|-------|--------|------|-------|------|-------|---------|-------|
|                                          |       |        | 25   | 19.28 | 1.39 | 20.67 | <=23.98 | Pass  |
|                                          |       |        | 49   | 19.21 | 1.39 | 20.6  | <=23.98 | Pass  |
|                                          |       | 25     | 0    | 18.94 | 1.39 | 20.33 | <=23.98 | Pass  |
|                                          |       |        | 13   | 18.83 | 1.39 | 20.22 | <=23.98 | Pass  |
|                                          |       |        | 25   | 18.79 | 1.39 | 20.18 | <=23.98 | Pass  |
|                                          |       | 50     | 0    | 18.83 | 1.39 | 20.22 | <=23.98 | Pass  |
|                                          |       | 256QAM | 2310 | 1     | 0    | 17.16 | 1.39    | 18.55 |
| 25                                       | 17.12 |        |      |       | 1.39 | 18.51 | <=23.98 | Pass  |
| 49                                       | 17.05 |        |      |       | 1.39 | 18.44 | <=23.98 | Pass  |
| 25                                       | 0     |        |      | 17.08 | 1.39 | 18.47 | <=23.98 | Pass  |
|                                          | 13    |        |      | 16.98 | 1.39 | 18.37 | <=23.98 | Pass  |
|                                          | 25    |        |      | 16.93 | 1.39 | 18.32 | <=23.98 | Pass  |
| 50                                       | 0     |        |      | 17.04 | 1.39 | 18.43 | <=23.98 | Pass  |
| Note1: EIRP=Conducted Power+Antenna Gain |       |        |      |       |      |       |         |       |

## 2. Field Strength of Spurious Radiation

**Test Band = LTE\_30\_TM1**

**Test Channel = MCH**

| Final Data List |                |                   |                |          |                |                |                |            |
|-----------------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1               | 3187.5         | 51.42             | -44.02         | 28.48    | -59.38         | -40.00         | 19.38          | Horizontal |
| 2               | 4920.5         | 46.41             | -42.42         | 30.94    | -60.33         | -40.00         | 20.33          | Horizontal |
| 3               | 6010.5         | 46.20             | -40.68         | 33.11    | -56.63         | -40.00         | 16.63          | Horizontal |
| 4               | 7422.5         | 44.42             | -37.88         | 36.75    | -51.97         | -40.00         | 11.97          | Horizontal |
| 5               | 11473.5        | 43.85             | -34.64         | 40.23    | -45.82         | -40.00         | 5.82           | Horizontal |
| 6               | 16093.5        | 40.87             | -28.17         | 38.09    | -44.47         | -40.00         | 4.47           | Horizontal |

| Final Data List |                |                   |                |          |                |                |                |          |
|-----------------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1               | 3187.5         | 51.08             | -44.02         | 28.48    | -59.72         | -40.00         | 19.72          | Vertical |
| 2               | 4781.5         | 47.24             | -42.67         | 30.69    | -60.00         | -40.00         | 20.00          | Vertical |
| 3               | 7364.5         | 44.59             | -38.16         | 36.56    | -52.27         | -40.00         | 12.27          | Vertical |
| 4               | 10879.5        | 43.64             | -34.45         | 40.08    | -45.99         | -40.00         | 5.99           | Vertical |
| 5               | 14802          | 41.74             | -32.50         | 41.59    | -44.43         | -40.00         | 4.43           | Vertical |
| 6               | 17979          | 40.73             | -39.75         | 47.82    | -46.46         | -40.00         | 6.46           | Vertical |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---