

# Appendix B

## E-UTRA Band 14



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# 1 Effective (Isotropic) Radiated Power

## 1.1. Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Conducted Power(dBm) | ERP (dBm) | limit (dBm) | Verdict |
|--------|-----------|------------|---------|------------------|----------------------|-----------|-------------|---------|
| Band14 | 5MHz      | QPSK       | 23305   | 1RB#0            | 23.69                | 23.54     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23305   | 1RB#12           | 23.58                | 23.43     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23305   | 1RB#24           | 23.79                | 23.64     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23305   | 12RB#0           | 22.75                | 22.60     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23305   | 12RB#6           | 22.88                | 22.73     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23305   | 12RB#13          | 22.89                | 22.74     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23305   | 25RB#0           | 22.87                | 22.72     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23330   | 1RB#0            | 23.80                | 23.65     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23330   | 1RB#12           | 23.69                | 23.54     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23330   | 1RB#24           | 23.72                | 23.57     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23330   | 12RB#0           | 22.89                | 22.74     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23330   | 12RB#6           | 22.89                | 22.74     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23330   | 12RB#13          | 22.84                | 22.69     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23330   | 25RB#0           | 22.86                | 22.71     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23355   | 1RB#0            | 23.74                | 23.59     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23355   | 1RB#12           | 23.76                | 23.61     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23355   | 1RB#24           | 23.50                | 23.35     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23355   | 12RB#6           | 22.89                | 22.74     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23355   | 12RB#0           | 22.92                | 22.77     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23355   | 12RB#13          | 22.82                | 22.67     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23355   | 25RB#0           | 22.87                | 22.72     | 34.77       | PASS    |
| Band14 | 5MHz      | 16QAM      | 23305   | 1RB#0            | 22.61                | 22.46     | 34.77       | PASS    |
| Band14 | 5MHz      | 16QAM      | 23305   | 1RB#12           | 22.50                | 22.35     | 34.77       | PASS    |
| Band14 | 5MHz      | 16QAM      | 23305   | 1RB#24           | 22.94                | 22.79     | 34.77       | PASS    |
| Band14 | 5MHz      | 16QAM      | 23305   | 12RB#0           | 21.69                | 21.54     | 34.77       | PASS    |
| Band14 | 5MHz      | 16QAM      | 23305   | 12RB#6           | 21.74                | 21.59     | 34.77       | PASS    |
| Band14 | 5MHz      | 16QAM      | 23305   | 12RB#13          | 21.81                | 21.66     | 34.77       | PASS    |

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|        |       |       |       |         |       |       |       |      |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band14 | 5MHz  | 16QAM | 23305 | 25RB#0  | 21.68 | 21.53 | 34.77 | PASS |
| Band14 | 5MHz  | 16QAM | 23330 | 1RB#0   | 22.91 | 22.76 | 34.77 | PASS |
| Band14 | 5MHz  | 16QAM | 23330 | 1RB#24  | 22.51 | 22.36 | 34.77 | PASS |
| Band14 | 5MHz  | 16QAM | 23330 | 1RB#12  | 22.60 | 22.45 | 34.77 | PASS |
| Band14 | 5MHz  | 16QAM | 23330 | 12RB#0  | 21.73 | 21.58 | 34.77 | PASS |
| Band14 | 5MHz  | 16QAM | 23330 | 12RB#13 | 21.72 | 21.57 | 34.77 | PASS |
| Band14 | 5MHz  | 16QAM | 23330 | 12RB#6  | 21.66 | 21.51 | 34.77 | PASS |
| Band14 | 5MHz  | 16QAM | 23330 | 25RB#0  | 21.82 | 21.67 | 34.77 | PASS |
| Band14 | 5MHz  | 16QAM | 23355 | 1RB#24  | 22.65 | 22.50 | 34.77 | PASS |
| Band14 | 5MHz  | 16QAM | 23355 | 1RB#12  | 22.55 | 22.40 | 34.77 | PASS |
| Band14 | 5MHz  | 16QAM | 23355 | 1RB#0   | 22.76 | 22.61 | 34.77 | PASS |
| Band14 | 5MHz  | 16QAM | 23355 | 12RB#13 | 21.66 | 21.51 | 34.77 | PASS |
| Band14 | 5MHz  | 16QAM | 23355 | 12RB#6  | 21.71 | 21.56 | 34.77 | PASS |
| Band14 | 5MHz  | 16QAM | 23355 | 12RB#0  | 21.61 | 21.46 | 34.77 | PASS |
| Band14 | 5MHz  | 16QAM | 23355 | 25RB#0  | 21.81 | 21.66 | 34.77 | PASS |
| Band14 | 10MHz | QPSK  | 23330 | 1RB#24  | 23.58 | 23.43 | 34.77 | PASS |
| Band14 | 10MHz | QPSK  | 23330 | 1RB#0   | 23.57 | 23.42 | 34.77 | PASS |
| Band14 | 10MHz | QPSK  | 23330 | 1RB#49  | 23.83 | 23.68 | 34.77 | PASS |
| Band14 | 10MHz | QPSK  | 23330 | 25RB#25 | 22.90 | 22.75 | 34.77 | PASS |
| Band14 | 10MHz | QPSK  | 23330 | 25RB#0  | 22.92 | 22.77 | 34.77 | PASS |
| Band14 | 10MHz | QPSK  | 23330 | 25RB#12 | 22.87 | 22.72 | 34.77 | PASS |
| Band14 | 10MHz | QPSK  | 23330 | 50RB#0  | 22.87 | 22.72 | 34.77 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 1RB#24  | 22.96 | 22.81 | 34.77 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 1RB#49  | 22.98 | 22.83 | 34.77 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 1RB#0   | 22.57 | 22.42 | 34.77 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 25RB#12 | 21.90 | 21.75 | 34.77 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 25RB#0  | 21.92 | 21.77 | 34.77 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 25RB#25 | 21.88 | 21.73 | 34.77 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 50RB#0  | 21.78 | 21.63 | 34.77 | PASS |

## Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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## 2. Field Strength of Spurious Radiation

### 2.1. Test Mode =LTE/TM1 10MHz

#### 2.1.1. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 65.886667       | -75.17      | -13.00           | 62.17       | 168         | 261       | Vertical     |
| 137.893333      | -74.10      | -13.00           | 61.10       | 188         | 48        | Vertical     |
| 263.846667      | -59.83      | -13.00           | 46.83       | 155         | 214       | Vertical     |
| 1577.000000     | -47.08      | -40.00           | 7.08        | 170         | 272       | Vertical     |
| 2365.500000     | -55.02      | -13.00           | 42.02       | 160         | 202       | Vertical     |
| 4740.375000     | -66.22      | -13.00           | 53.22       | 237         | 39        | Vertical     |
| 62.620000       | -75.55      | -13.00           | 62.55       | 243         | 354       | Horizontal   |
| 198.280000      | -59.82      | -13.00           | 46.82       | 301         | 20        | Horizontal   |
| 350.273333      | -64.54      | -13.00           | 51.54       | 265         | 326       | Horizontal   |
| 1577.000000     | -49.53      | -40.00           | 9.53        | 248         | 306       | Horizontal   |
| 2365.500000     | -54.89      | -13.00           | 41.89       | 227         | 235       | Horizontal   |
| 4717.950000     | -65.83      | -13.00           | 52.83       | 238         | 186       | Horizontal   |

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

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The End

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