



## Conducted Band Edge

### WCDMA Band V (RMC 12.2Kbps)

#### Lowest Band Edge



#### Highest Band Edge



### WCDMA Band II (RMC 12.2Kbps)

#### Lowest Band Edge



#### Highest Band Edge





WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



Date: 3.APR.2025 14:33:31



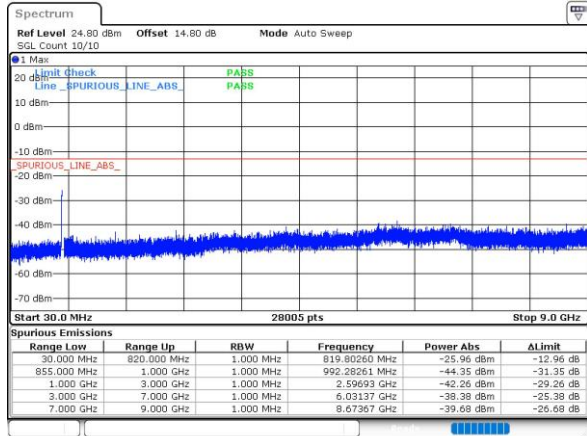
Date: 3.APR.2025 14:35:52



# Conducted Spurious Emission

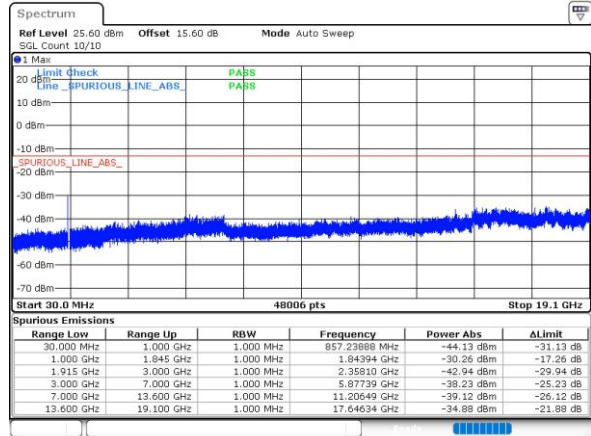
## WCDMA Band V (RMC 12.2Kbps)

### Lowest Channel

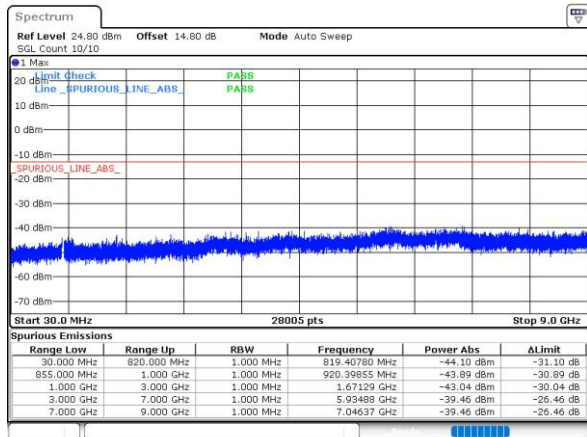


## WCDMA Band II (RMC 12.2Kbps)

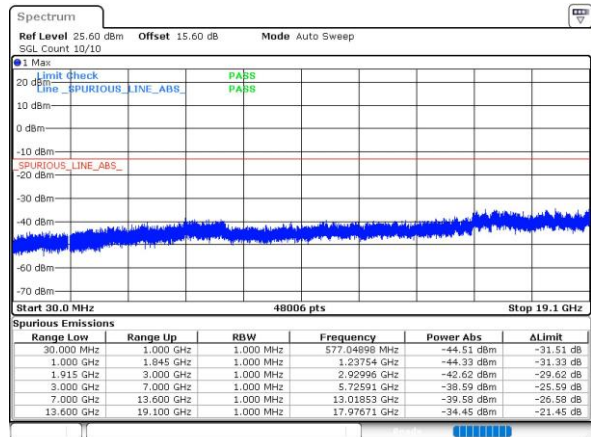
### Lowest Channel



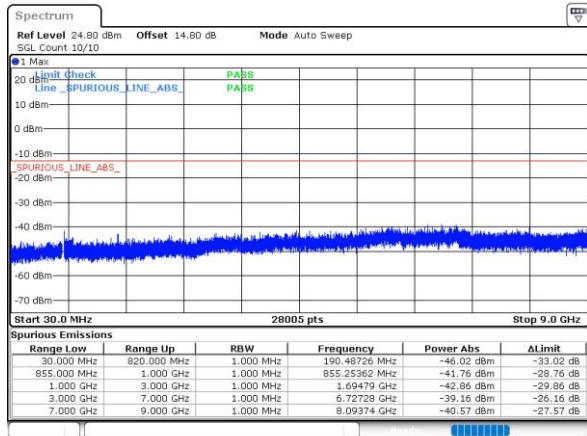
### Middle Channel



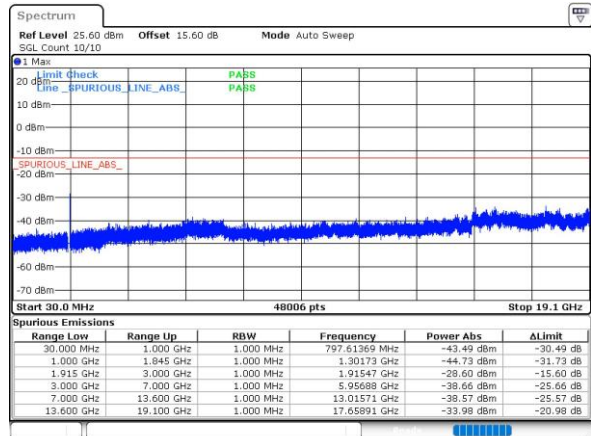
### Middle Channel



### Highest Channel



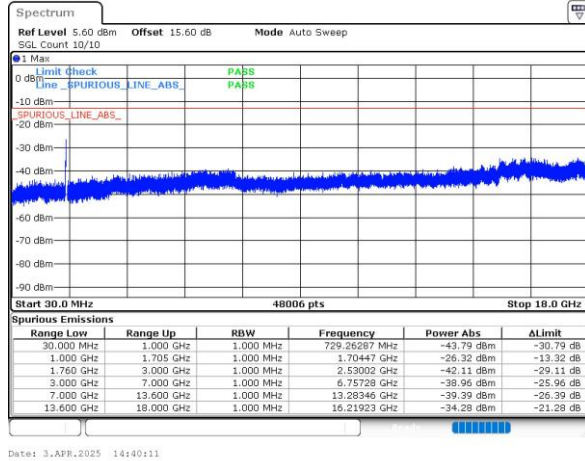
### Highest Channel



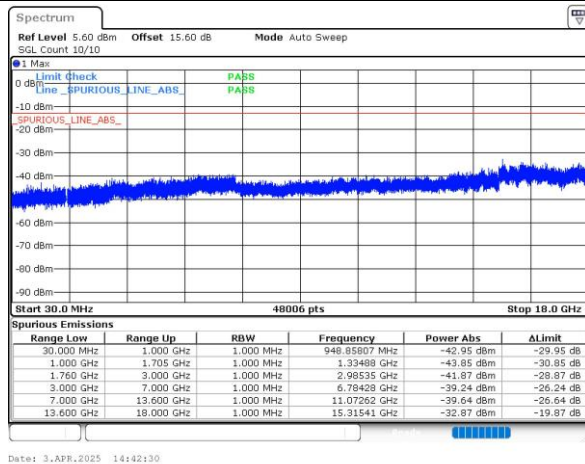


## WCDMA Band IV (RMC 12.2Kbps)

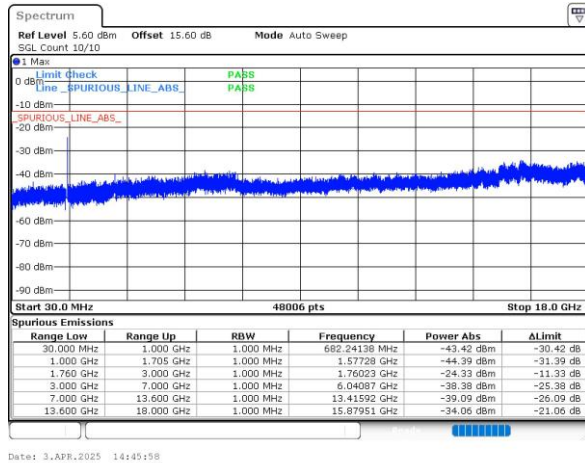
## Lowest Channel



## Middle Channel



## Highest Channel



**Frequency Stability**

| Test Conditions  | Middle Channel    | WCDMA Band V<br>(RMC 12.2Kbps) | Limit<br>2.5ppm |
|------------------|-------------------|--------------------------------|-----------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)                | Result          |
| 50               | Normal Voltage    | 0.0052                         | PASS            |
| 40               | Normal Voltage    | 0.0346                         |                 |
| 30               | Normal Voltage    | 0.0469                         |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000                         |                 |
| 10               | Normal Voltage    | 0.0072                         |                 |
| 0                | Normal Voltage    | 0.0316                         |                 |
| -10              | Normal Voltage    | 0.0038                         |                 |
| -20              | Normal Voltage    | 0.0781                         |                 |
| -30              | Normal Voltage    | 0.0632                         |                 |
| 20               | Maximum Voltage   | 0.0454                         |                 |
| 20               | Normal Voltage    | 0.0149                         |                 |
| 20               | Battery End Point | 0.0287                         |                 |

| Test Conditions  | Middle Channel    | WCDMA Band II<br>(RMC 12.2Kbps) | Limit<br>Note 2. |
|------------------|-------------------|---------------------------------|------------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)                 | Result           |
| 50               | Normal Voltage    | 0.0162                          | PASS             |
| 40               | Normal Voltage    | 0.0148                          |                  |
| 30               | Normal Voltage    | 0.0116                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0122                          |                  |
| 0                | Normal Voltage    | 0.0634                          |                  |
| -10              | Normal Voltage    | 0.0251                          |                  |
| -20              | Normal Voltage    | 0.0534                          |                  |
| -30              | Normal Voltage    | 0.0162                          |                  |
| 20               | Maximum Voltage   | 0.0149                          |                  |
| 20               | Normal Voltage    | 0.0168                          |                  |
| 20               | Battery End Point | 0.0213                          |                  |

| Test Conditions  | Middle Channel    | WCDMA Band IV<br>(RMC 12.2Kbps) | Limit<br>Note 2. |
|------------------|-------------------|---------------------------------|------------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)                 | Result           |
| 50               | Normal Voltage    | 0.0079                          | PASS             |
| 40               | Normal Voltage    | 0.0161                          |                  |
| 30               | Normal Voltage    | 0.0341                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0016                          |                  |
| 0                | Normal Voltage    | 0.0051                          |                  |
| -10              | Normal Voltage    | 0.0162                          |                  |
| -20              | Normal Voltage    | 0.0536                          |                  |
| -30              | Normal Voltage    | 0.0634                          |                  |
| 20               | Maximum Voltage   | 0.0021                          |                  |
| 20               | Normal Voltage    | 0.0091                          |                  |
| 20               | Battery End Point | 0.0142                          |                  |

**Note:**

1. Normal Voltage = 3.81V ; Battery End Point (BEP) =3.4V.; Maximum Voltage =4.5V
2. The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

|                 |               |                     |         |
|-----------------|---------------|---------------------|---------|
| Test Engineer : | LiangPingZhou | Temperature :       | 22~25°C |
|                 |               | Relative Humidity : | 48~52%  |

| GSM850 (GSM) |                   |             |               |                   |                   |                    |                      |                       |                    |
|--------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel      | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle       | 1672.8            | -54.75      | -13           | -41.75            | -64.71            | -58.00             | 4.00                 | 9.40                  | H                  |
|              | 2509.2            | -35.43      | -13           | -22.43            | -49.83            | -39.00             | 4.88                 | 10.60                 | H                  |
|              | 3345.6            | -58.91      | -13           | -45.91            | -74.90            | -63.84             | 5.52                 | 12.60                 | H                  |
|              | 4182              | -55.33      | -13           | -42.33            | -75.32            | -59.80             | 6.00                 | 12.62                 | H                  |
|              | 1672.8            | -48.80      | -13           | -35.80            | -58.21            | -52.05             | 4.00                 | 9.40                  | V                  |
|              | 2509.2            | -34.48      | -13           | -21.48            | -48.84            | -38.05             | 4.88                 | 10.60                 | V                  |
|              | 3345.6            | -55.90      | -13           | -42.90            | -71.62            | -60.83             | 5.52                 | 12.60                 | V                  |
|              | 4182              | -54.29      | -13           | -41.29            | -74.29            | -58.76             | 6.00                 | 12.62                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| GSM850 (EDGE 1 Tx slots) |                   |             |               |                   |                   |                    |                      |                       |                    |
|--------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                  | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                   | 1672.8            | -54.76      | -13           | -41.76            | -64.72            | -58.01             | 4.00                 | 9.40                  | H                  |
|                          | 2509.2            | -35.47      | -13           | -22.47            | -49.87            | -39.04             | 4.88                 | 10.60                 | H                  |
|                          | 3345.6            | -57.90      | -13           | -44.90            | -73.89            | -62.83             | 5.52                 | 12.60                 | H                  |
|                          | 4182              | -56.17      | -13           | -43.17            | -76.16            | -60.64             | 6.00                 | 12.62                 | H                  |
|                          | 1672.8            | -47.96      | -13           | -34.96            | -57.37            | -51.21             | 4.00                 | 9.40                  | V                  |
|                          | 2509.2            | -40.13      | -13           | -27.13            | -54.49            | -43.70             | 4.88                 | 10.60                 | V                  |
|                          | 3345.6            | -59.44      | -13           | -46.44            | -75.16            | -64.37             | 5.52                 | 12.60                 | V                  |
|                          | 4182              | -51.84      | -13           | -38.84            | -71.84            | -56.31             | 6.00                 | 12.62                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.





| GSM1900 (GSM) |                   |              |               |                   |                   |                    |                      |                       |                    |
|---------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel       | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle        | 3760              | -61.74       | -13           | -48.74            | -80.37            | -68.49             | 5.85                 | 12.60                 | H                  |
|               | 5640              | -59.00       | -13           | -46.00            | -82.26            | -64.80             | 7.30                 | 13.10                 | H                  |
|               | 7520              | -55.35       | -13           | -42.35            | -82.16            | -58.50             | 8.35                 | 11.50                 | H                  |
|               | 3760              | -61.85       | -13           | -48.85            | -80.41            | -68.60             | 5.85                 | 12.60                 | V                  |
|               | 5640              | -59.48       | -13           | -46.48            | -81.99            | -65.28             | 7.30                 | 13.10                 | V                  |
|               | 7520              | -54.80       | -13           | -41.80            | -81.59            | -57.95             | 8.35                 | 11.50                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| GSM1900 (EDGE 1 Tx slots) |                   |              |               |                   |                   |                    |                      |                       |                    |
|---------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                   | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                    | 3760              | -61.83       | -13           | -48.83            | -80.46            | -68.58             | 5.85                 | 12.60                 | H                  |
|                           | 5640              | -59.13       | -13           | -46.13            | -82.39            | -64.93             | 7.30                 | 13.10                 | H                  |
|                           | 7520              | -55.34       | -13           | -42.34            | -82.15            | -58.49             | 8.35                 | 11.50                 | H                  |
|                           | 3760              | -61.69       | -13           | -48.69            | -80.25            | -68.44             | 5.85                 | 12.60                 | V                  |
|                           | 5640              | -59.69       | -13           | -46.69            | -82.2             | -65.49             | 7.30                 | 13.10                 | V                  |
|                           | 7520              | -55.13       | -13           | -42.13            | -81.92            | -58.28             | 8.35                 | 11.50                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| WCDMA Band V(RMC 12.2Kbps) |                   |             |               |                   |                   |                    |                      |                       |                    |
|----------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                    | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                     | 1672.8            | -65.44      | -13           | -52.44            | -75.40            | -68.69             | 4.00                 | 9.40                  | H                  |
|                            | 2509.2            | -62.48      | -13           | -49.48            | -76.88            | -66.05             | 4.88                 | 10.60                 | H                  |
|                            | 3345.6            | -61.96      | -13           | -48.96            | -77.95            | -66.89             | 5.52                 | 12.60                 | H                  |
|                            | 1672.8            | -66.10      | -13           | -53.10            | -75.51            | -69.35             | 4.00                 | 9.40                  | V                  |
|                            | 2509.2            | -62.58      | -13           | -49.58            | -76.94            | -66.15             | 4.88                 | 10.60                 | V                  |
|                            | 3345.6            | -62.09      | -13           | -49.09            | -77.81            | -67.02             | 5.52                 | 12.60                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.





| WCDMA Band II(RMC 12.2Kbps) |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|-----------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                     | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                      | 3760                 | -61.80          | -13              | -48.80                  | -80.43                  | -68.55                   | 5.85                       | 12.60                       | H                     |
|                             | 5640                 | -59.21          | -13              | -46.21                  | -82.47                  | -65.01                   | 7.30                       | 13.10                       | H                     |
|                             | 7520                 | -55.34          | -13              | -42.34                  | -82.15                  | -58.49                   | 8.35                       | 11.50                       | H                     |
|                             | 3760                 | -61.75          | -13              | -48.75                  | -80.31                  | -68.50                   | 5.85                       | 12.60                       | V                     |
|                             | 5640                 | -59.92          | -13              | -46.92                  | -82.43                  | -65.72                   | 7.30                       | 13.10                       | V                     |
|                             | 7520                 | -55.32          | -13              | -42.32                  | -82.11                  | -58.47                   | 8.35                       | 11.50                       | V                     |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| WCDMA Band IV(RMC 12.2Kbps) |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|-----------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                     | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                      | 3465.2               | -62.38          | -13              | -49.38                  | -79.28                  | -69.23                   | 5.65                       | 12.50                       | H                     |
|                             | 5197.8               | -61.09          | -13              | -48.09                  | -82.86                  | -66.76                   | 7.13                       | 12.80                       | H                     |
|                             | 6930.4               | -56.75          | -13              | -43.75                  | -82.55                  | -60.15                   | 8.40                       | 11.80                       | H                     |
|                             | 3465.2               | -62.55          | -13              | -49.55                  | -79.47                  | -69.40                   | 5.65                       | 12.50                       | V                     |
|                             | 5197.8               | -60.87          | -13              | -47.87                  | -82.95                  | -66.54                   | 7.13                       | 12.80                       | V                     |
|                             | 6930.4               | -56.35          | -13              | -43.35                  | -82.62                  | -59.75                   | 8.40                       | 11.80                       | V                     |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.