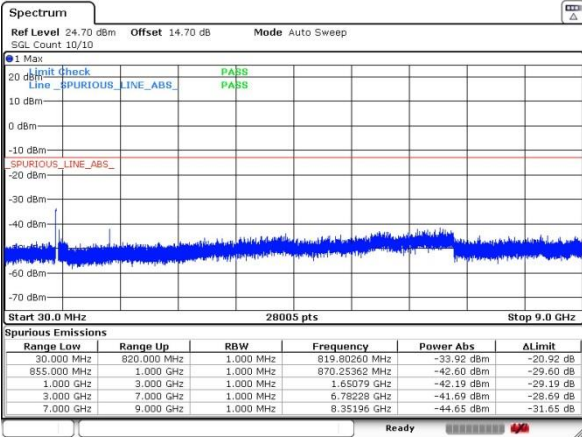




WCDMA Band V (RMC 12.2Kbps)

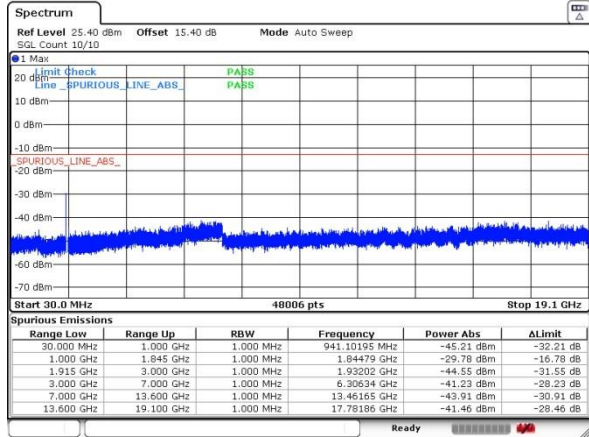
Lowest Channel



Date: 5 AUG 2019 16:30:47

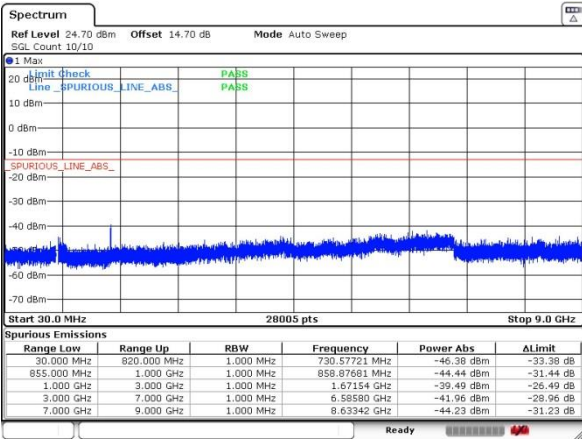
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



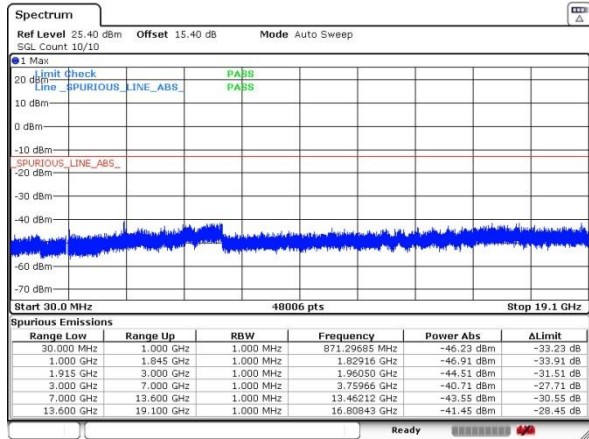
Date: 5 AUG 2019 16:41:03

Middle Channel



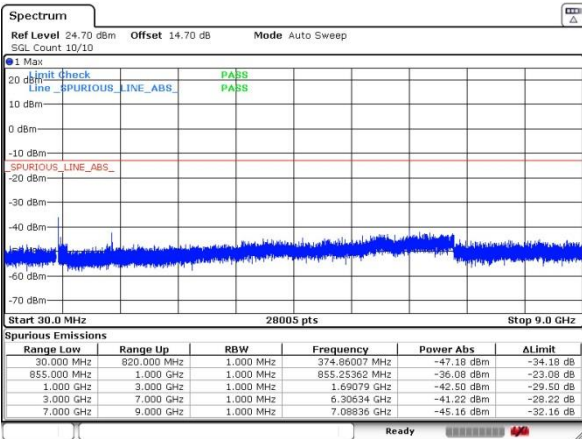
Date: 5 AUG 2019 16:31:06

Middle Channel



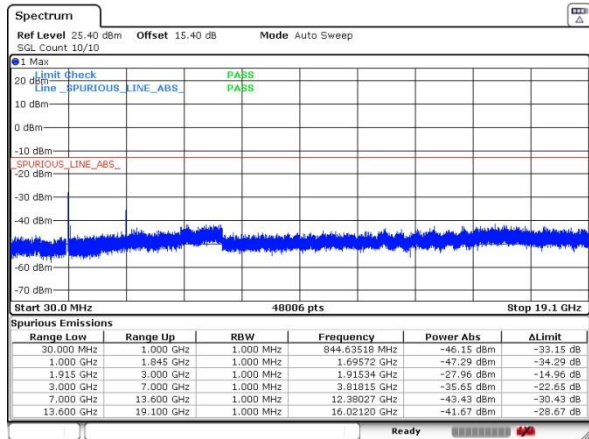
Date: 5 AUG 2019 16:41:20

Highest Channel



Date: 5 AUG 2019 16:31:22

Highest Channel



Date: 5 AUG 2019 16:41:36



**Frequency Stability**

| Test Conditions  | Middle Channel    | GSM850 (GSM)    | GSM850 (EDGE class 8) | Limit 2.5ppm |
|------------------|-------------------|-----------------|-----------------------|--------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm) |                       | Result       |
| 50               | Normal Voltage    | 0.0108          | 0.0251                | PASS         |
| 40               | Normal Voltage    | 0.0287          | 0.0323                |              |
| 30               | Normal Voltage    | 0.0036          | 0.0048                |              |
| 20(Ref.)         | Normal Voltage    | 0.0000          | 0.0000                |              |
| 10               | Normal Voltage    | 0.0024          | 0.0096                |              |
| 0                | Normal Voltage    | 0.0287          | 0.0395                |              |
| -10              | Normal Voltage    | 0.0096          | 0.0347                |              |
| -20              | Normal Voltage    | 0.0012          | 0.0012                |              |
| -30              | Normal Voltage    | 0.0084          | 0.0024                |              |
| 20               | Maximum Voltage   | 0.0024          | 0.0012                |              |
| 20               | Normal Voltage    | 0.0275          | 0.0275                |              |
| 20               | Battery End Point | 0.0299          | 0.0096                |              |

| Test Conditions  | Middle Channel    | GSM1900 (GSM)   | GSM1900 (EDGE class 8) | Limit Note 2. |
|------------------|-------------------|-----------------|------------------------|---------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm) |                        | Result        |
| 50               | Normal Voltage    | 0.0021          | 0.0080                 | PASS          |
| 40               | Normal Voltage    | 0.0016          | 0.0117                 |               |
| 30               | Normal Voltage    | 0.0011          | 0.0112                 |               |
| 20(Ref.)         | Normal Voltage    | 0.0000          | 0.0000                 |               |
| 10               | Normal Voltage    | 0.0027          | 0.0011                 |               |
| 0                | Normal Voltage    | 0.0080          | 0.0080                 |               |
| -10              | Normal Voltage    | 0.0016          | 0.0021                 |               |
| -20              | Normal Voltage    | 0.0048          | 0.0117                 |               |
| -30              | Normal Voltage    | 0.0117          | 0.0085                 |               |
| 20               | Maximum Voltage   | 0.0106          | 0.0037                 |               |
| 20               | Normal Voltage    | 0.0106          | 0.0021                 |               |
| 20               | Battery End Point | 0.0021          | 0.0027                 |               |

**Note:**

1. Normal Voltage = 3.85V ; Battery End Point (BEP) =3.45V. ; Maximum Voltage =4.35V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



| Test Conditions  | Middle Channel    | WCDMA Band V<br>(RMC 12.2KbpsRMC 12.2Kbps) | Limit<br>2.5ppm |
|------------------|-------------------|--|-----------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)                            | Result          |
| 50               | Normal Voltage    | 0.0048                                     | PASS            |
| 40               | Normal Voltage    | 0.0251                                     |                 |
| 30               | Normal Voltage    | 0.0227                                     |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000                                     |                 |
| 10               | Normal Voltage    | 0.0012                                     |                 |
| 0                | Normal Voltage    | 0.0036                                     |                 |
| -10              | Normal Voltage    | 0.0024                                     |                 |
| -20              | Normal Voltage    | 0.0132                                     |                 |
| -30              | Normal Voltage    | 0.0108                                     |                 |
| 20               | Maximum Voltage   | 0.0084                                     |                 |
| 20               | Normal Voltage    | 0.0048                                     |                 |
| 20               | Battery End Point | 0.0335                                     |                 |

| 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    | 0.0128                          | PASS             |
| 40               | Normal Voltage    | 0.0096                          |                  |
| 30               | Normal Voltage    | 0.0085                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0074                          |                  |
| 0                | Normal Voltage    | 0.0090                          |                  |
| -10              | Normal Voltage    | 0.0074                          |                  |
| -20              | Normal Voltage    | 0.0005                          |                  |
| -30              | Normal Voltage    | 0.0021                          |                  |
| 20               | Maximum Voltage   | 0.0043                          |                  |
| 20               | Normal Voltage    | 0.0000                          |                  |
| 20               | Battery End Point | 0.0016                          |                  |

**Note:**

1. Normal Voltage = 3.85V ; Battery End Point (BEP) =3.45V. ; Maximum Voltage =4.35V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

| GSM850 (GSM) |                   |             |               |                   |                    |                      |                       |                    |
|--------------|-------------------|-------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel      | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle       | 1672.00           | -57.70      | -13           | -44.70            | -60.94             | 1.11                 | 6.50                  | H                  |
|              | 2510.00           | -48.46      | -13           | -35.46            | -51.08             | 1.43                 | 6.20                  | H                  |
|              | 3348.00           | -59.12      | -13           | -46.12            | -63.56             | 1.71                 | 8.30                  | H                  |
|              | 1672.00           | -56.63      | -13           | -43.63            | -59.87             | 1.11                 | 6.50                  | V                  |
|              | 2510.00           | -44.19      | -13           | -31.19            | -46.81             | 1.43                 | 6.20                  | V                  |
|              | 3348.00           | -59.04      | -13           | -46.04            | -63.48             | 1.71                 | 8.30                  | V                  |

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

| GSM850 (EDGE class 8) |                   |             |               |                   |                    |                      |                       |                    |
|-----------------------|-------------------|-------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel               | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                | 1672.00           | -61.00      | -13           | -48.00            | -64.24             | 1.11                 | 6.50                  | H                  |
|                       | 2510.00           | -47.39      | -13           | -34.39            | -50.01             | 1.43                 | 6.20                  | H                  |
|                       | 3348.00           | -59.58      | -13           | -46.58            | -64.02             | 1.71                 | 8.30                  | H                  |
|                       | 1672.00           | -62.08      | -13           | -49.08            | -65.32             | 1.11                 | 6.50                  | V                  |
|                       | 2508.00           | -49.53      | -13           | -36.53            | -52.15             | 1.43                 | 6.20                  | V                  |
|                       | 3348.00           | -59.40      | -13           | -46.40            | -63.84             | 1.71                 | 8.30                  | 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 ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle        | 3759              | -50.60       | -13           | -37.60            | -56.86             | 1.84                 | 8.10                  | H                  |
|               | 5640              | -48.34       | -13           | -35.34            | -56.65             | 2.19                 | 10.50                 | H                  |
|               | 7524              | -51.97       | -13           | -38.97            | -60.89             | 2.58                 | 11.50                 | H                  |
|               | 3759              | -51.79       | -13           | -38.79            | -58.05             | 1.84                 | 8.10                  | V                  |
|               | 5640              | -52.68       | -13           | -39.68            | -60.99             | 2.19                 | 10.50                 | V                  |
|               | 7524              | -52.30       | -13           | -39.30            | -61.22             | 2.58                 | 11.50                 | V                  |

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

| GSM1900 (EDGE class 8) |                   |              |               |                   |                    |                      |                       |                    |
|------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                 | 3759              | -56.18       | -13           | -43.18            | -62.44             | 1.84                 | 8.10                  | H                  |
|                        | 5640              | -53.13       | -13           | -40.13            | -61.44             | 2.19                 | 10.50                 | H                  |
|                        | 7524              | -52.12       | -13           | -39.12            | -61.04             | 2.58                 | 11.50                 | H                  |
|                        | 3759              | -56.07       | -13           | -43.07            | -62.33             | 1.84                 | 8.10                  | V                  |
|                        | 5640              | -53.25       | -13           | -40.25            | -61.56             | 2.19                 | 10.50                 | V                  |
|                        | 7524              | -52.04       | -13           | -39.04            | -60.96             | 2.58                 | 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 ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                     | 1672              | -58.12      | -13           | -45.12            | -61.36             | 1.11                 | 6.50                  | H                  |
|                            | 2510              | -60.85      | -13           | -47.85            | -63.47             | 1.43                 | 6.20                  | H                  |
|                            | 3348              | -59.79      | -13           | -46.79            | -64.23             | 1.71                 | 8.30                  | H                  |
|                            | 1672              | -60.21      | -13           | -47.21            | -63.45             | 1.11                 | 6.50                  | V                  |
|                            | 2510              | -60.41      | -13           | -47.41            | -63.03             | 1.43                 | 6.20                  | V                  |
|                            | 3348              | -59.32      | -13           | -46.32            | -46.32             | -63.76               | 1.71                  | 8.30               |

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

| WCDMA Band II(RMC 12.2Kbps) |                   |              |               |                   |                    |                      |                       |                    |
|-----------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                     | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                      | 3759              | -54.05       | -13           | -41.05            | -60.31             | 1.84                 | 8.10                  | H                  |
|                             | 5640              | -50.41       | -13           | -37.41            | -58.72             | 2.19                 | 10.50                 | H                  |
|                             | 7524              | -52.16       | -13           | -39.16            | -61.08             | 2.58                 | 11.50                 | H                  |
|                             | 3759              | -54.98       | -13           | -41.98            | -61.24             | 1.84                 | 8.10                  | V                  |
|                             | 5640              | -53.25       | -13           | -40.25            | -61.56             | 2.19                 | 10.50                 | V                  |
|                             | 7524              | -52.33       | -13           | -39.33            | -39.33             | -61.25               | 2.58                  | 11.50              |

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