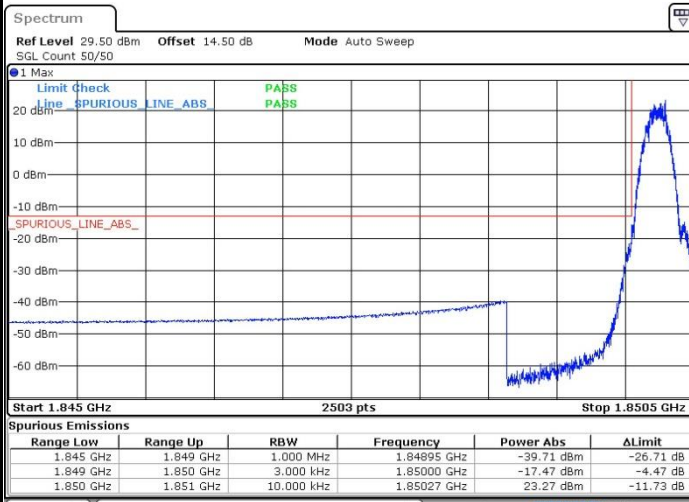


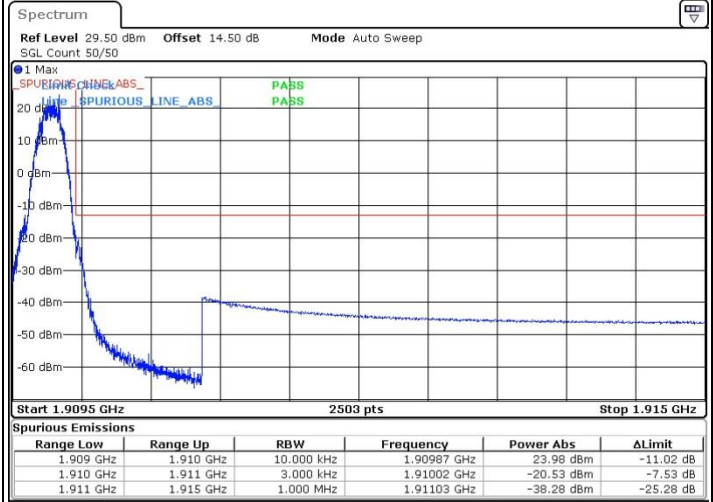


## GSM1900 (GSM)

## Lowest Band Edge

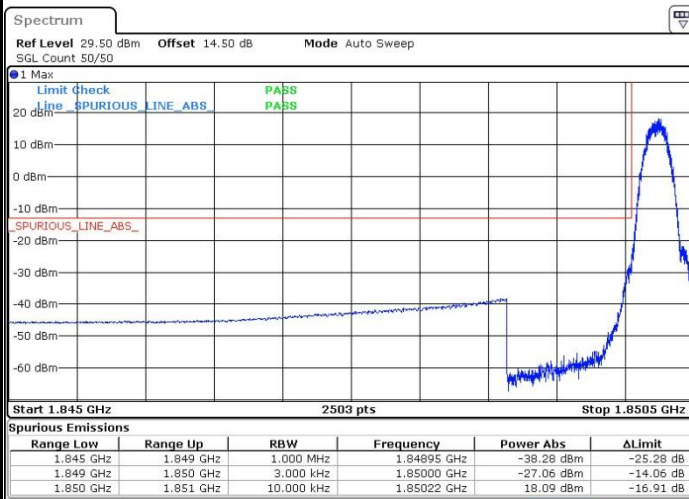


## Highest Band Edge

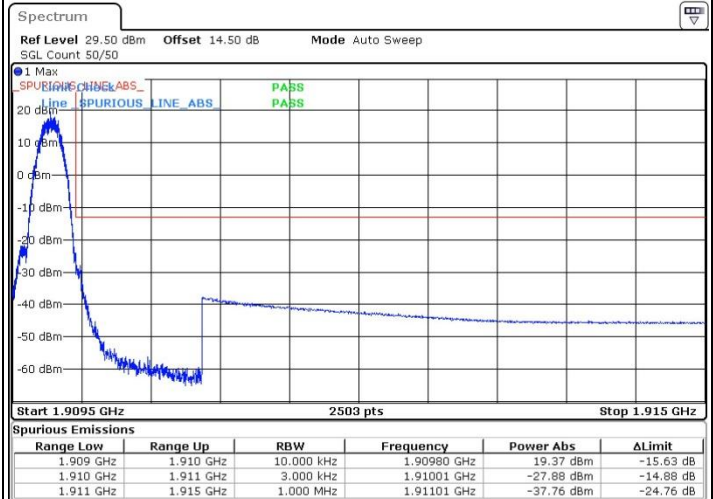


## GSM1900 (EDGE class 8)

## Lowest Band Edge



## Highest Band Edge

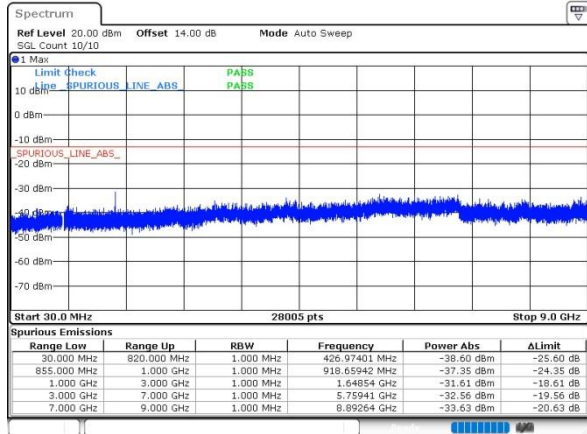




## Conducted Spurious Emission

### GSM850 (GSM)

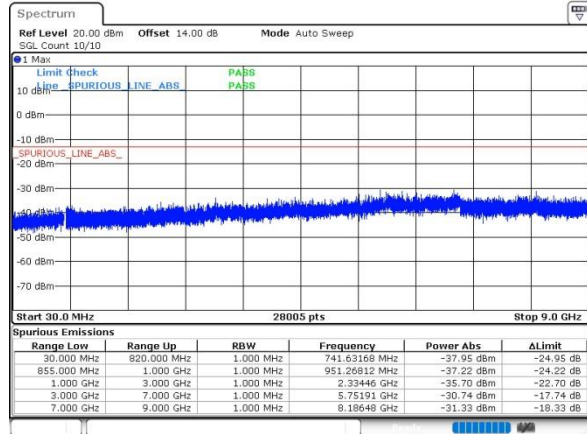
#### Lowest Channel



Date: 5.FEB.2021 04:20:13

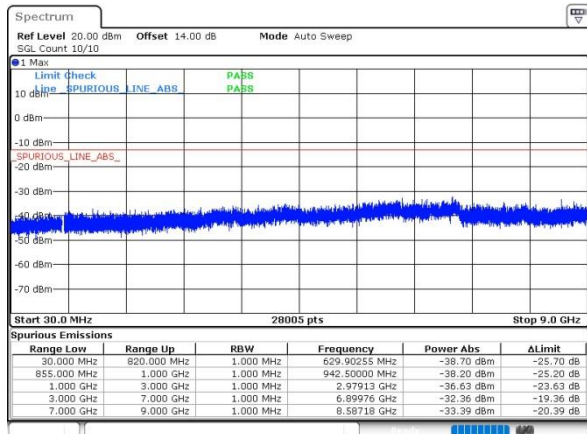
### GSM850 (EDGE class 8)

#### Lowest Channel



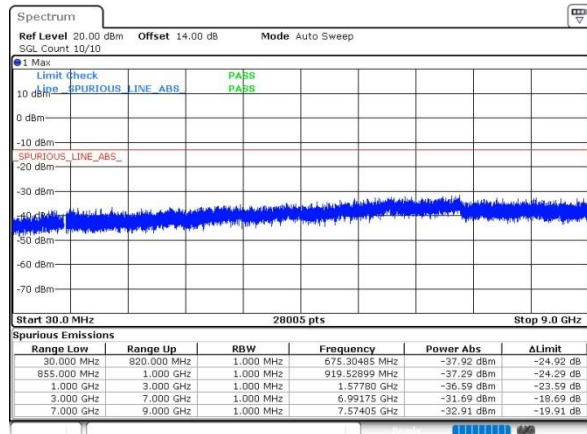
Date: 24.FEB.2021 15:27:09

### Middle Channel



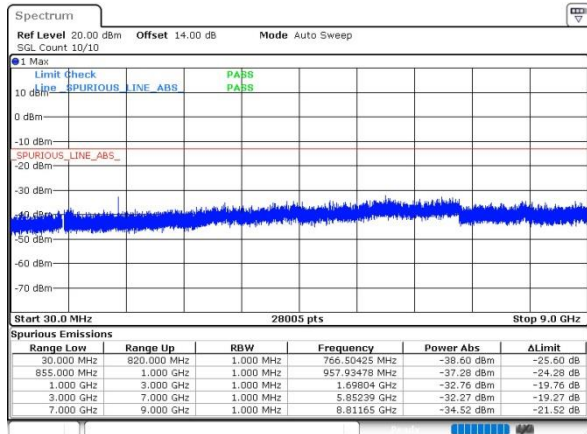
Date: 5.FEB.2021 04:20:12

### Middle Channel



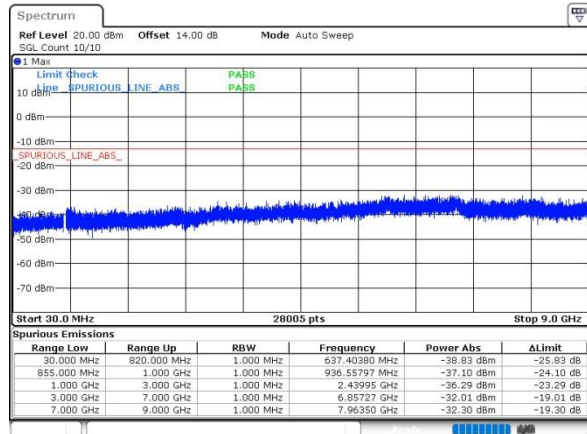
Date: 24.FEB.2021 15:29:01

### Highest Channel



Date: 5.FEB.2021 04:21:38

### Highest Channel

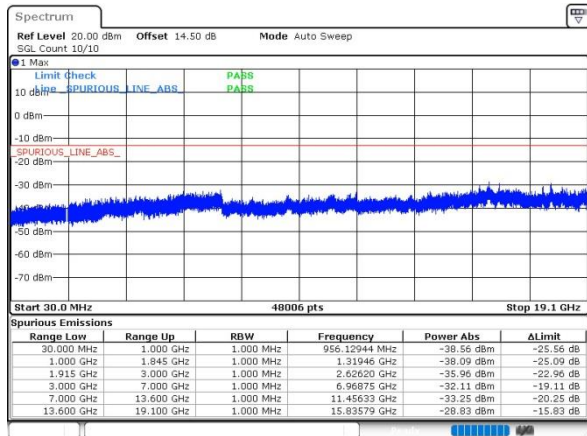


Date: 24.FEB.2021 15:30:55



## GSM1900 (GSM)

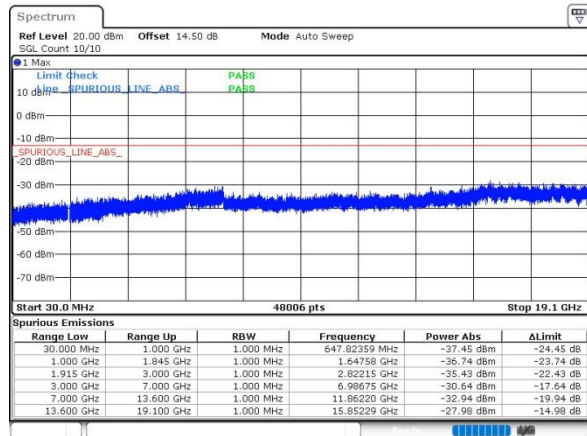
## Lowest Channel



Date: 5.FEB.2021 04:45:47

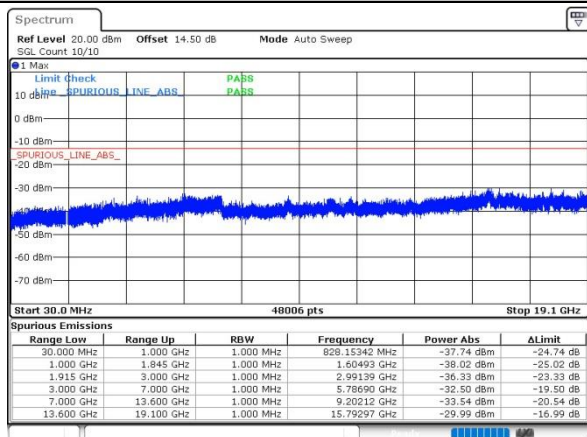
## GSM1900 (EDGE class 8)

## Lowest Channel



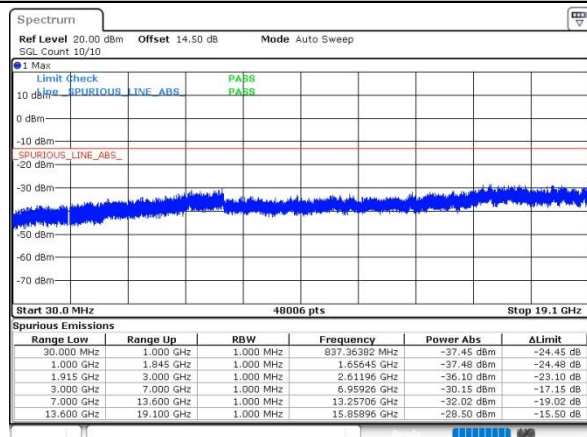
Date: 24.FEB.2021 14:56:40

## Middle Channel



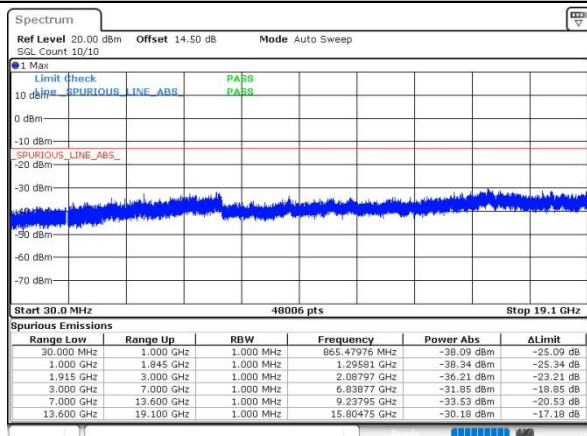
Date: 5.FEB.2021 04:49:07

## Middle Channel



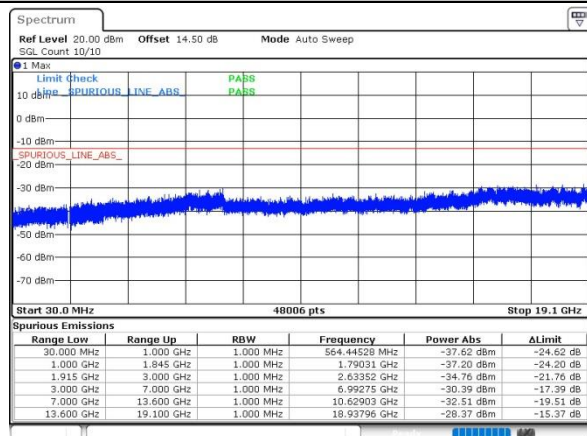
Date: 24.FEB.2021 14:58:53

## Highest Channel



Date: 5.FEB.2021 04:49:40

## Highest Channel



Date: 24.FEB.2021 15:01:10

**Frequency Stability**

| Test Conditions  | Middle Channel    | GSM850<br>(GSM) | GSM850<br>(EDGE class 8) | Limit<br>2.5ppm |
|------------------|-------------------|-----------------|--------------------------|-----------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm) |                          | Result          |
| 50               | Normal Voltage    | 0.0160          | 0.0010                   | PASS            |
| 40               | Normal Voltage    | 0.0018          | 0.0034                   |                 |
| 30               | Normal Voltage    | 0.0024          | 0.0010                   |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000          | 0.0000                   |                 |
| 10               | Normal Voltage    | 0.0021          | 0.0268                   |                 |
| 0                | Normal Voltage    | 0.0014          | 0.0034                   |                 |
| -10              | Normal Voltage    | 0.0025          | 0.0008                   |                 |
| -20              | Normal Voltage    | 0.0003          | 0.0020                   |                 |
| -30              | Normal Voltage    | 0.0008          | 0.0260                   |                 |
| 20               | Maximum Voltage   | 0.0151          | 0.0005                   |                 |
| 20               | Normal Voltage    | 0.0000          | 0.0000                   |                 |
| 20               | Battery End Point | 0.0029          | 0.0310                   |                 |

| Test Conditions  | Middle Channel    | GSM1900<br>(GSM) | GSM1900<br>(EDGE class 8) | Limit<br>Note 2. |
|------------------|-------------------|------------------|---------------------------|------------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)  |                           | Result           |
| 50               | Normal Voltage    | 0.0101           | 0.0011                    | PASS             |
| 40               | Normal Voltage    | 0.0012           | 0.0032                    |                  |
| 30               | Normal Voltage    | 0.0013           | 0.0013                    |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000           | 0.0000                    |                  |
| 10               | Normal Voltage    | 0.0163           | 0.0011                    |                  |
| 0                | Normal Voltage    | 0.0003           | 0.0015                    |                  |
| -10              | Normal Voltage    | 0.0007           | 0.0008                    |                  |
| -20              | Normal Voltage    | 0.0138           | 0.0052                    |                  |
| -30              | Normal Voltage    | 0.0172           | 0.0007                    |                  |
| 20               | Maximum Voltage   | 0.0141           | 0.0025                    |                  |
| 20               | Normal Voltage    | 0.0000           | 0.0000                    |                  |
| 20               | Battery End Point | 0.0151           | 0.0017                    |                  |

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.4 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



## A2. WCDMA

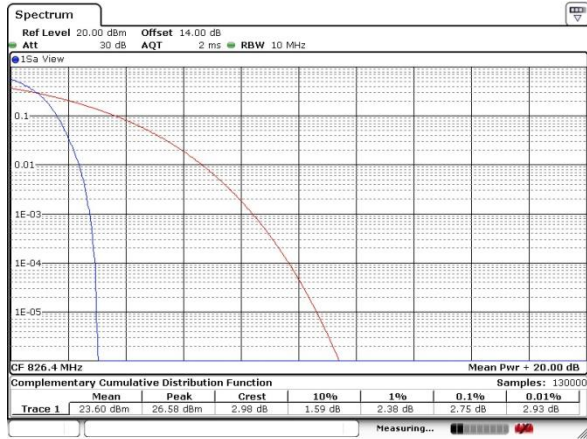
### Peak-to-Average Ratio

| Mode       | WCDMA Band V(dB) | WCDMA Band II(dB) | Limit: 13dB |
|------------|------------------|-------------------|-------------|
| Mod.       | RMC 12.2Kbps     | RMC 12.2Kbps      | Result      |
| Lowest CH  | 2.75             | 2.75              | PASS        |
| Middle CH  | 2.78             | 2.78              |             |
| Highest CH | 2.99             | 2.72              |             |



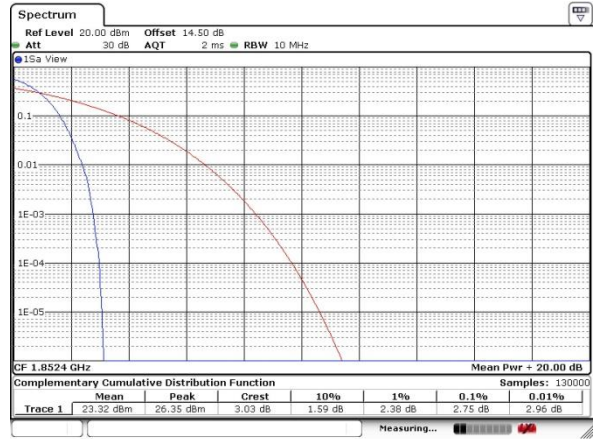
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

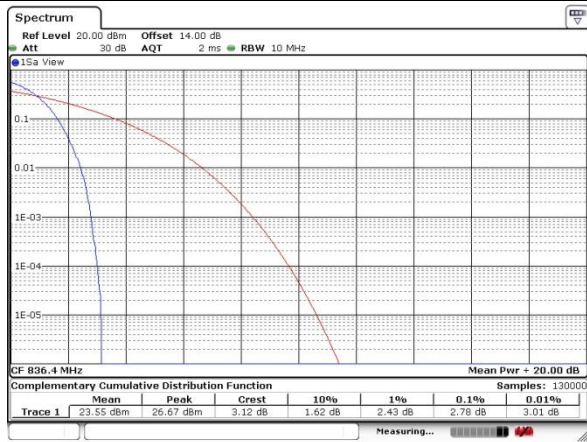


WCDMA Band II (RMC 12.2Kbps)

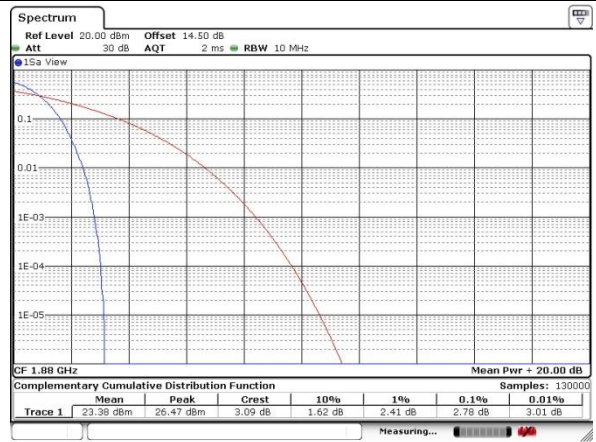
Lowest Channel



Middle Channel



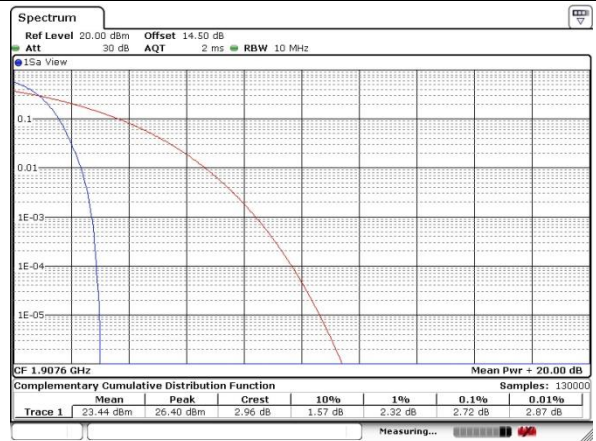
Middle Channel



Highest Channel



Highest Channel





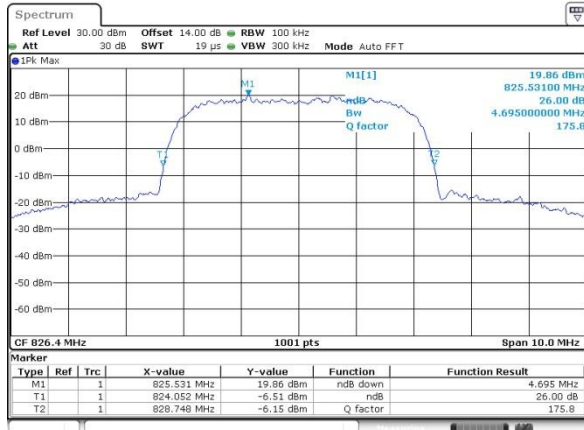
**26dB Bandwidth**

| Mode       | WCDMA Band V(MHz) | WCDMA Band II(MHz) |
|------------|-------------------|--------------------|
| Mod.       | RMC 12.2Kbps      | RMC 12.2Kbps       |
| Lowest CH  | 4.70              | 4.68               |
| Middle CH  | 4.70              | 4.68               |
| Highest CH | 4.69              | 4.68               |



## WCDMA Band V (RMC 12.2Kbps)

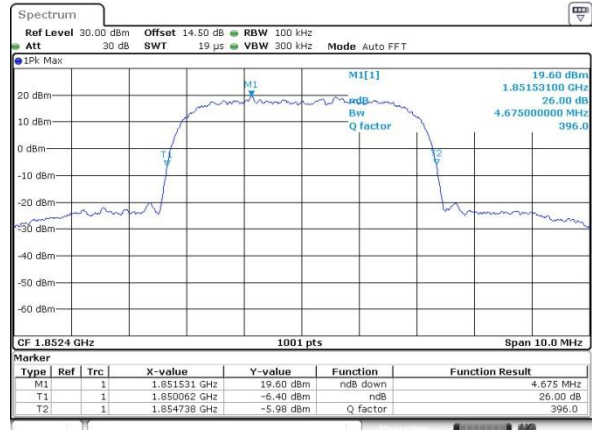
## Lowest Channel



Date: 5.FEB.2021 08:12:48

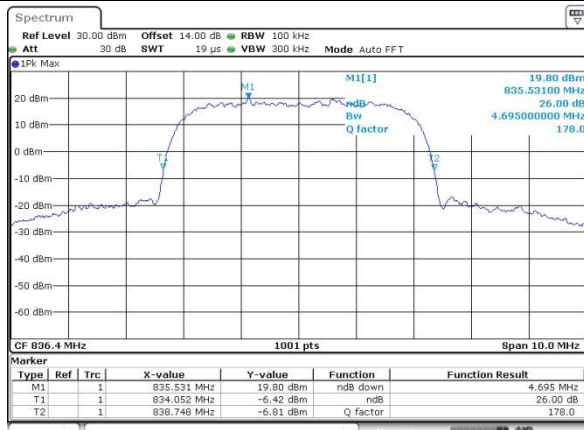
## WCDMA Band II (RMC 12.2Kbps)

## Lowest Channel



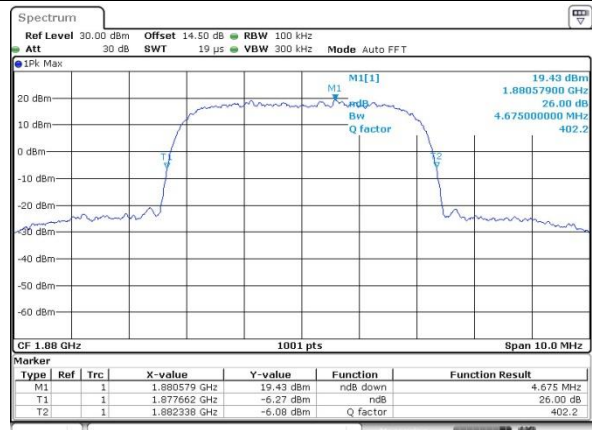
Date: 5.FEB.2021 08:04:10

## Middle Channel



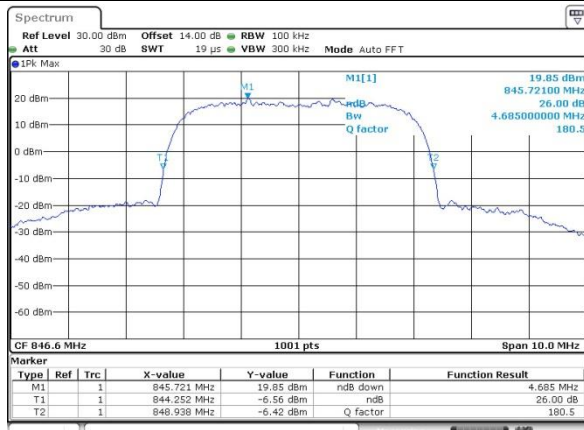
Date: 5.FEB.2021 08:13:26

## Middle Channel



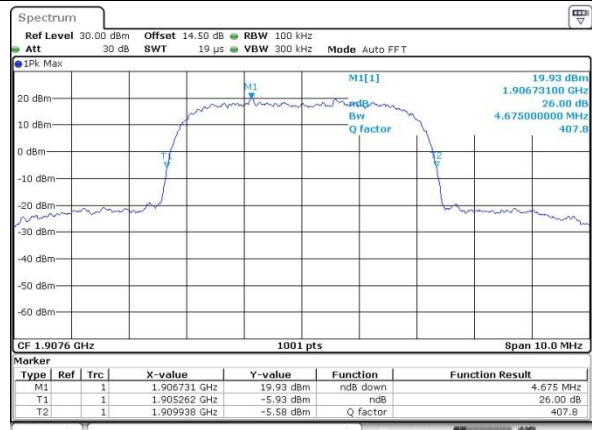
Date: 5.FEB.2021 08:04:44

## Highest Channel



Date: 5.FEB.2021 08:13:47

## Highest Channel



Date: 5.FEB.2021 08:05:06



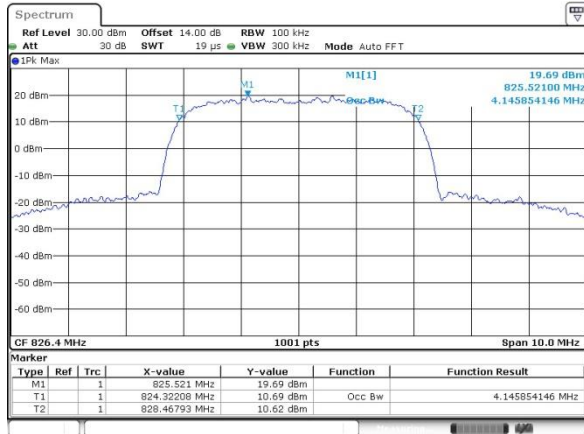
## Occupied Bandwidth

| Mode       | WCDMA Band V(MHz) | WCDMA Band II(MHz) |
|------------|-------------------|--------------------|
| Mod.       | RMC 12.2Kbps      | RMC 12.2Kbps       |
| Lowest CH  | 4.15              | 4.15               |
| Middle CH  | 4.15              | 4.14               |
| Highest CH | 4.15              | 4.16               |



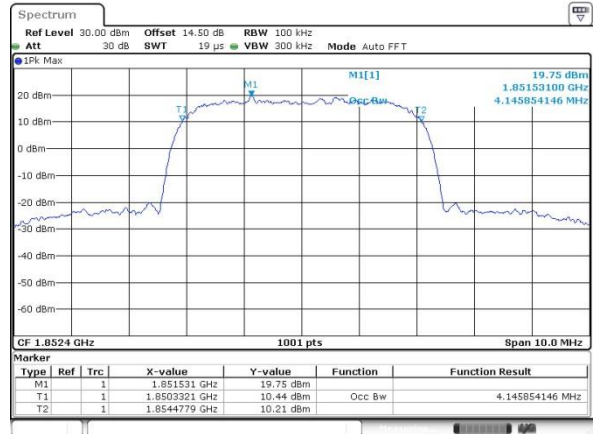
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

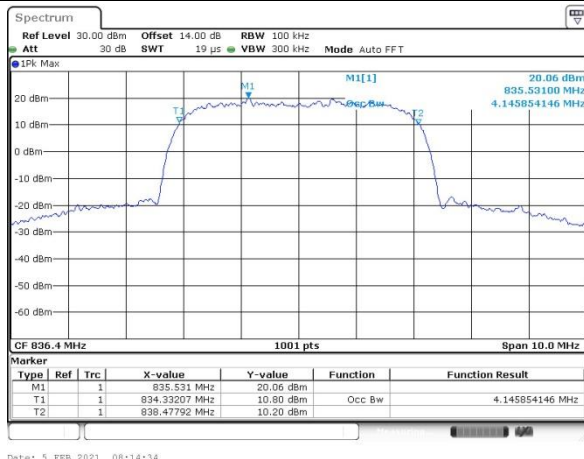


WCDMA Band II (RMC 12.2Kbps)

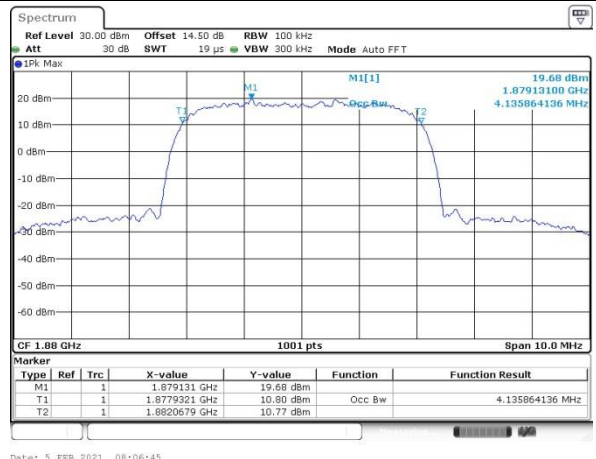
Lowest Channel



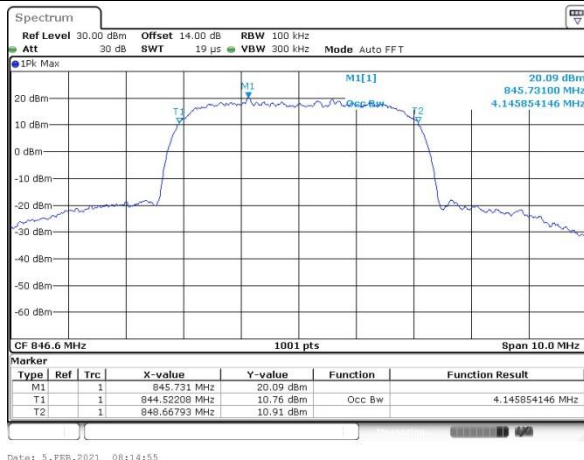
Middle Channel



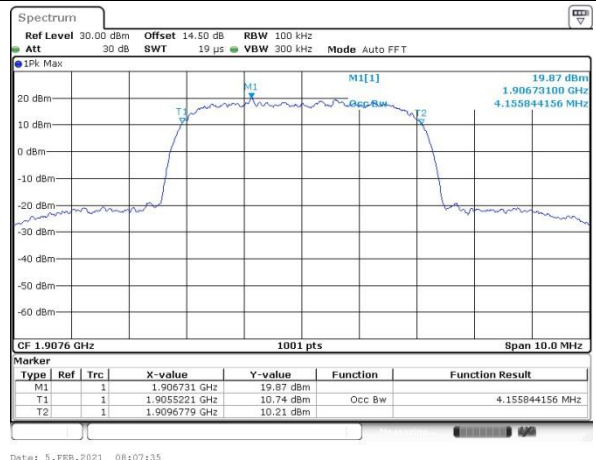
Middle Channel



Highest Channel



Highest Channel

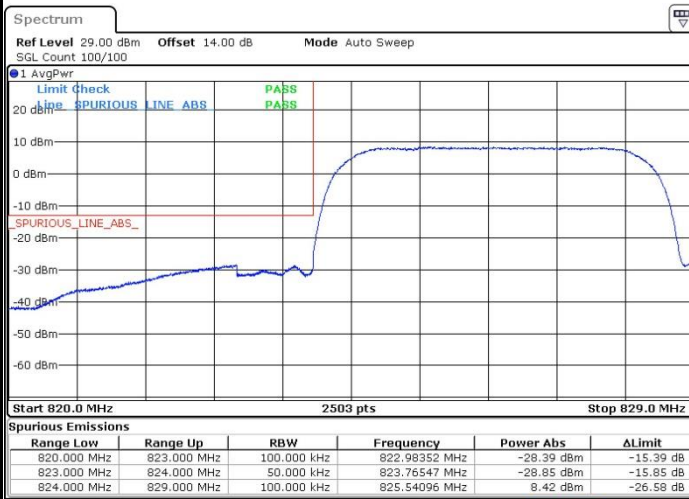




## Conducted Band Edge

### WCDMA Band V (RMC 12.2Kbps)

#### Lowest Band Edge



#### Highest Band Edge



### WCDMA Band II (RMC 12.2Kbps)

#### Lowest Band Edge



#### Highest Band Edge

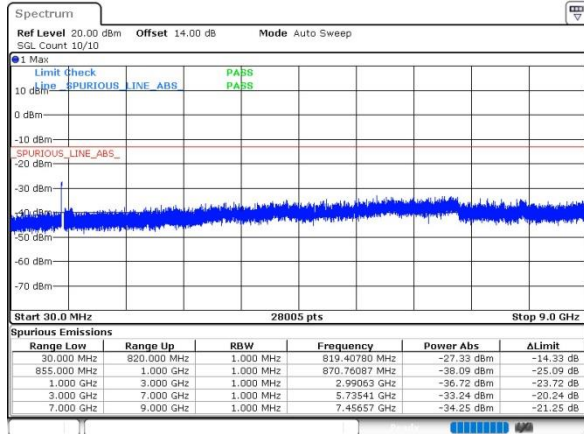




## Conducted Spurious Emission

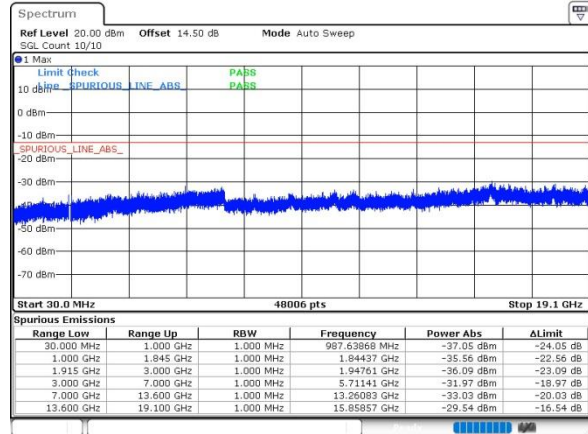
### WCDMA Band V (RMC 12.2Kbps)

#### Lowest Channel

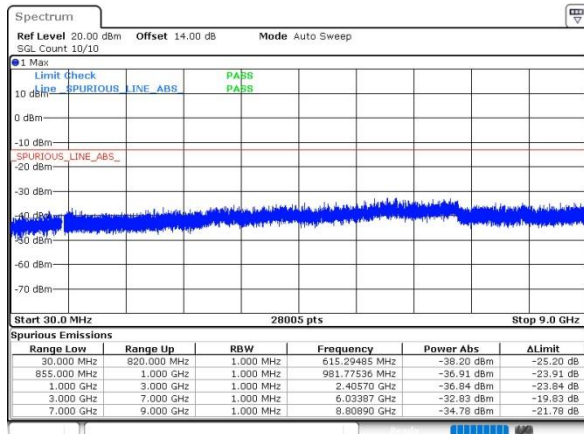


### WCDMA Band II (RMC 12.2Kbps)

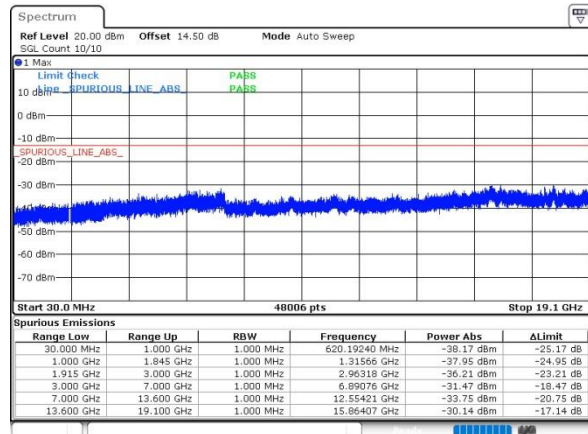
#### Lowest Channel



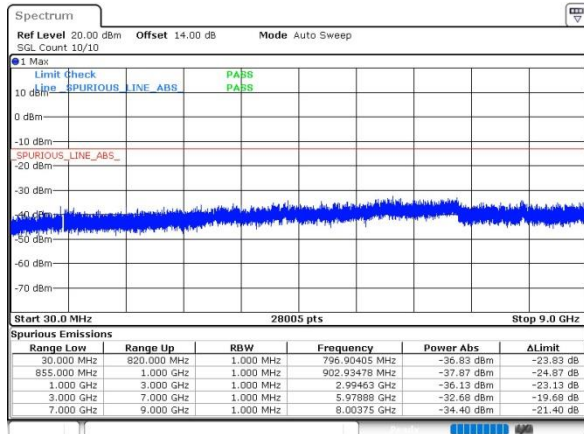
#### Middle Channel



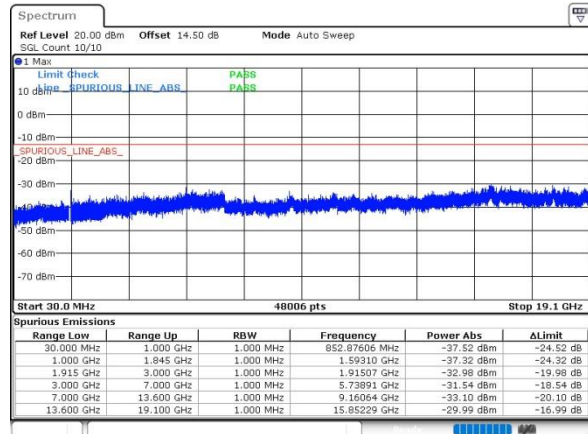
#### Middle Channel



#### Highest Channel



#### Highest Channel



**Frequency Stability**

| 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    | 0.0026                                     | PASS            |
| 40               | Normal Voltage    | 0.0013                                     |                 |
| 30               | Normal Voltage    | 0.0022                                     |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000                                     |                 |
| 10               | Normal Voltage    | 0.0027                                     |                 |
| 0                | Normal Voltage    | 0.0029                                     |                 |
| -10              | Normal Voltage    | 0.0022                                     |                 |
| -20              | Normal Voltage    | 0.0018                                     |                 |
| -30              | Normal Voltage    | 0.0024                                     |                 |
| 20               | Maximum Voltage   | 0.0022                                     |                 |
| 20               | Normal Voltage    | 0.0000                                     |                 |
| 20               | Battery End Point | 0.0019                                     |                 |

| 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    | 0.0002                          | PASS             |
| 40               | Normal Voltage    | 0.0004                          |                  |
| 30               | Normal Voltage    | 0.0006                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0010                          |                  |
| 0                | Normal Voltage    | 0.0006                          |                  |
| -10              | Normal Voltage    | 0.0005                          |                  |
| -20              | Normal Voltage    | 0.0002                          |                  |
| -30              | Normal Voltage    | 0.0012                          |                  |
| 20               | Maximum Voltage   | 0.0014                          |                  |
| 20               | Normal Voltage    | 0.0000                          |                  |
| 20               | Battery End Point | 0.0002                          |                  |

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.4 V
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 ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle       | 1672.8            | -51.52      | -13           | -38.52            | -46.60            | -54.77             | 4.00                 | 9.40                  | H                  |
|              | 2509.2            | -56.42      | -13           | -43.42            | -54.98            | -59.99             | 4.88                 | 10.60                 | H                  |
|              | 3345.6            | -61.70      | -13           | -48.70            | -63.26            | -66.63             | 5.52                 | 12.60                 | H                  |
|              | 1672.8            | -56.31      | -13           | -43.31            | -51.24            | -61.24             | 5.52                 | 12.60                 | V                  |
|              | 2509.2            | -54.05      | -13           | -41.05            | -52.92            | -58.52             | 6.00                 | 12.62                 | V                  |
|              | 3345.6            | -61.62      | -13           | -48.62            | -63.54            | -65.03             | 7.14                 | 12.70                 | 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            | -52.28      | -13           | -39.28            | -47.36            | -55.53             | 4.00                 | 9.40                  | H                  |
|                          | 2509.2            | -55.73      | -13           | -42.73            | -54.29            | -59.30             | 4.88                 | 10.60                 | H                  |
|                          | 3345.6            | -62.22      | -13           | -49.22            | -63.78            | -67.15             | 5.52                 | 12.60                 | H                  |
|                          | 1672.8            | -55.42      | -13           | -42.42            | -50.35            | -60.35             | 5.52                 | 12.60                 | V                  |
|                          | 2509.2            | -56.91      | -13           | -43.91            | -55.78            | -61.38             | 6.00                 | 12.62                 | V                  |
|                          | 3345.6            | -61.63      | -13           | -48.63            | -63.55            | -65.04             | 7.14                 | 12.70                 | 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              | -59.78       | -13           | -46.78            | -63.69            | -66.53             | 5.85                 | 12.60                 | H                  |
|               | 5640              | -54.60       | -13           | -41.60            | -64.73            | -60.40             | 7.30                 | 13.10                 | H                  |
|               | 7520              | -52.37       | -13           | -39.37            | -66.48            | -55.52             | 8.35                 | 11.50                 | H                  |
|               | 3760              | -59.81       | -13           | -46.81            | -63.59            | -66.56             | 5.85                 | 12.60                 | V                  |
|               | 5640              | -54.88       | -13           | -41.88            | -64.71            | -60.68             | 7.30                 | 13.10                 | V                  |
|               | 7520              | -52.19       | -13           | -39.19            | -66.4             | -55.34             | 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              | -60.06       | -13           | -47.06            | -63.97            | -66.81             | 5.85                 | 12.60                 | H                  |
|                           | 5640              | -54.29       | -13           | -41.29            | -64.42            | -60.09             | 7.30                 | 13.10                 | H                  |
|                           | 7520              | -52.50       | -13           | -39.50            | -66.61            | -55.65             | 8.35                 | 11.50                 | H                  |
|                           | 3760              | -59.95       | -13           | -46.95            | -63.73            | -66.70             | 5.85                 | 12.60                 | V                  |
|                           | 5640              | -54.85       | -13           | -41.85            | -64.68            | -60.65             | 7.30                 | 13.10                 | V                  |
|                           | 7520              | -52.15       | -13           | -39.15            | -66.36            | -55.30             | 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            | -66.83      | -13           | -53.83            | -61.91            | -70.08             | 4.00                 | 9.40                  | H                  |
|                            | 2509.2            | -64.31      | -13           | -51.31            | -62.87            | -67.88             | 4.88                 | 10.60                 | H                  |
|                            | 3345.6            | -62.05      | -13           | -49.05            | -63.61            | -66.98             | 5.52                 | 12.60                 | H                  |
|                            | 1672.8            | -67.77      | -13           | -54.77            | -62.70            | -72.70             | 5.52                 | 12.60                 | V                  |
|                            | 2509.2            | -64.46      | -13           | -51.46            | -63.33            | -68.93             | 6.00                 | 12.62                 | V                  |
|                            | 3345.6            | -61.43      | -13           | -48.43            | -63.35            | -64.84             | 7.14                 | 12.70                 | V                  |

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 ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                      | 3760              | -59.85       | -13           | -46.85            | -63.76            | -66.60             | 5.85                 | 12.60                 | H                  |
|                             | 5640              | -54.46       | -13           | -41.46            | -64.59            | -60.26             | 7.30                 | 13.10                 | H                  |
|                             | 7520              | -52.26       | -13           | -39.26            | -66.37            | -55.41             | 8.35                 | 11.50                 | H                  |
|                             | 3760              | -59.35       | -13           | -46.35            | -63.13            | -66.10             | 5.85                 | 12.60                 | V                  |
|                             | 5640              | -55.00       | -13           | -42.00            | -64.83            | -60.80             | 7.30                 | 13.10                 | V                  |
|                             | 7520              | -51.96       | -13           | -38.96            | -66.17            | -55.11             | 8.35                 | 11.50                 | V                  |

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