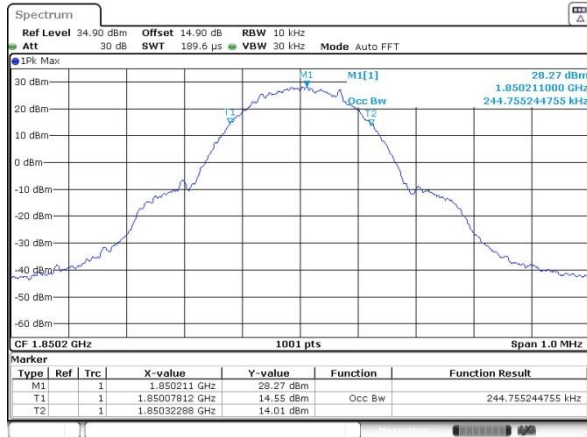




## GSM1900 (GSM)

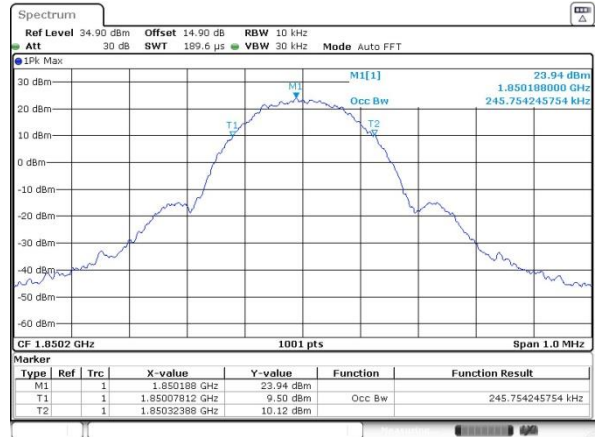
## Lowest Channel



Date: 13.OCT.2019 16:18:32

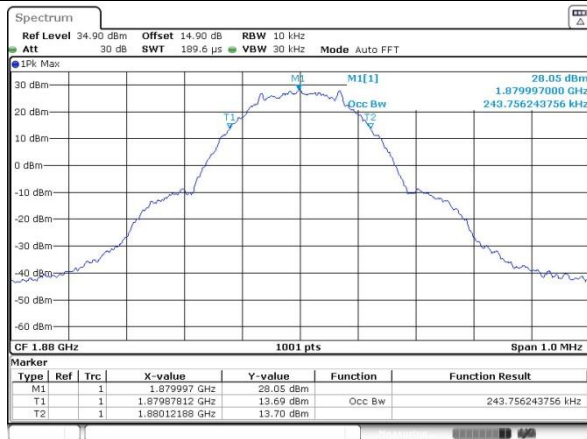
## GSM1900 (EDGE class 8)

## Lowest Channel



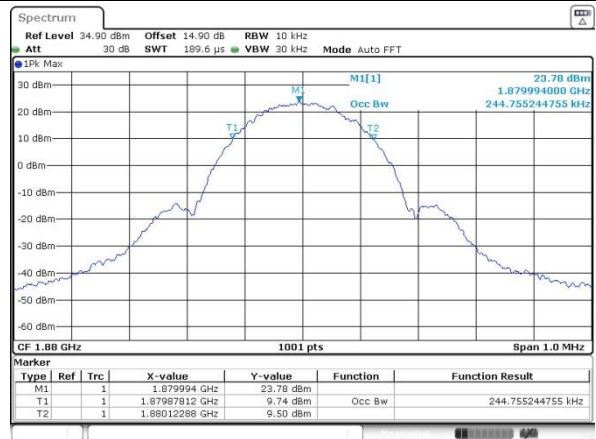
Date: 13.OCT.2019 16:29:08

## Middle Channel



Date: 13.OCT.2019 16:18:48

## Middle Channel



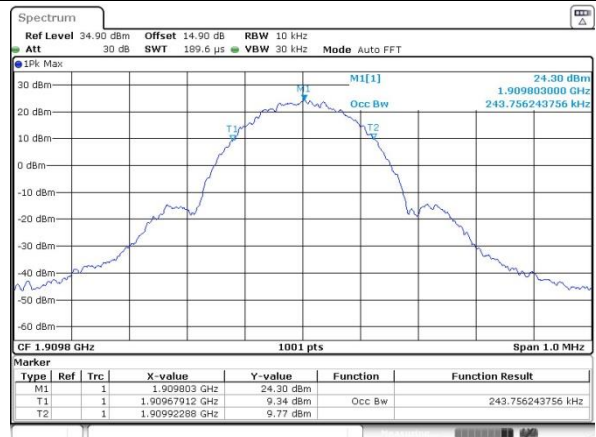
Date: 13.OCT.2019 16:29:28

## Highest Channel



Date: 13.OCT.2019 16:19:04

## Highest Channel

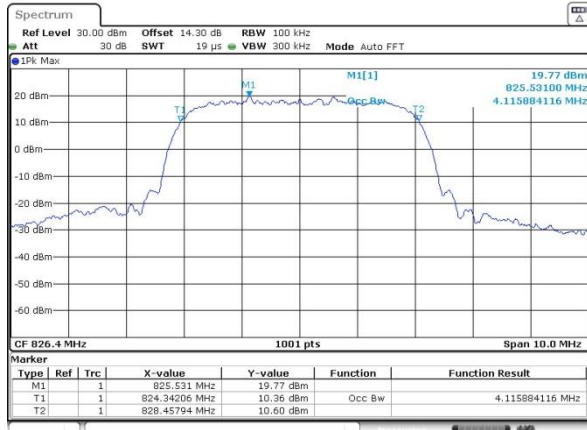


Date: 13.OCT.2019 16:29:45



## WCDMA Band V (RMC 12.2Kbps)

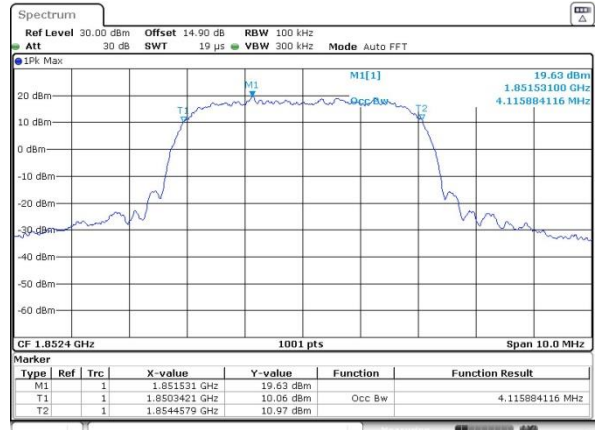
## Lowest Channel



Date: 13.OCT.2019 16:42:38

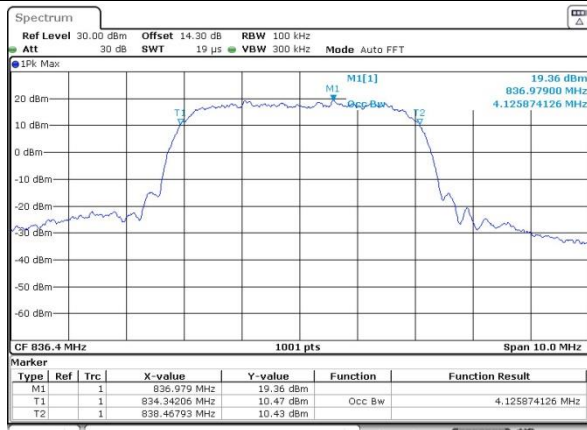
## WCDMA Band II (RMC 12.2Kbps)

## Lowest Channel



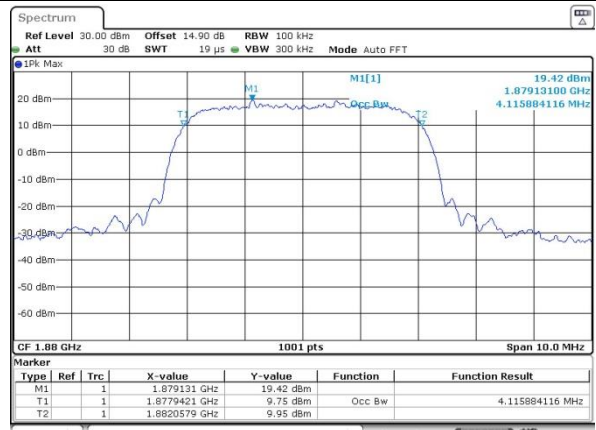
Date: 13.OCT.2019 16:54:34

## Middle Channel



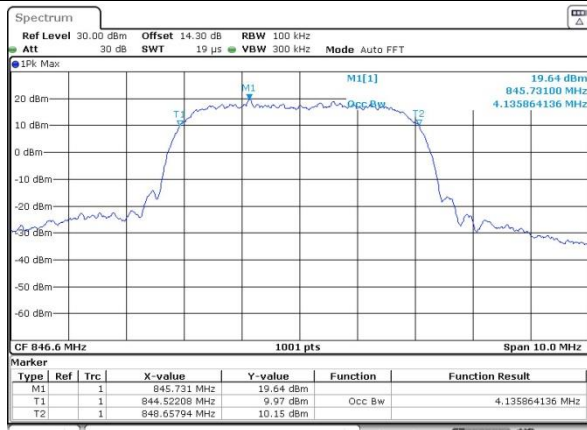
Date: 13.OCT.2019 16:42:58

## Middle Channel



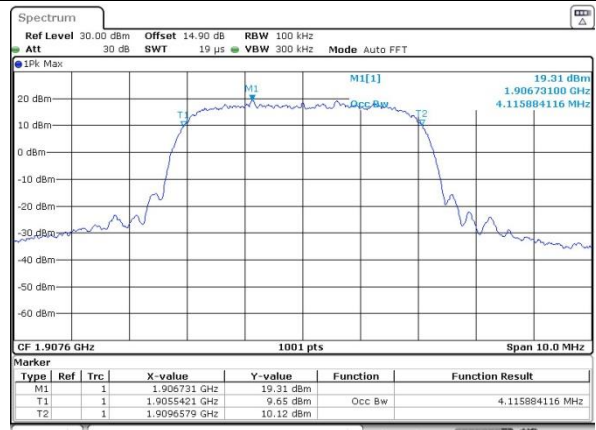
Date: 13.OCT.2019 16:54:50

## Highest Channel



Date: 13.OCT.2019 16:43:16

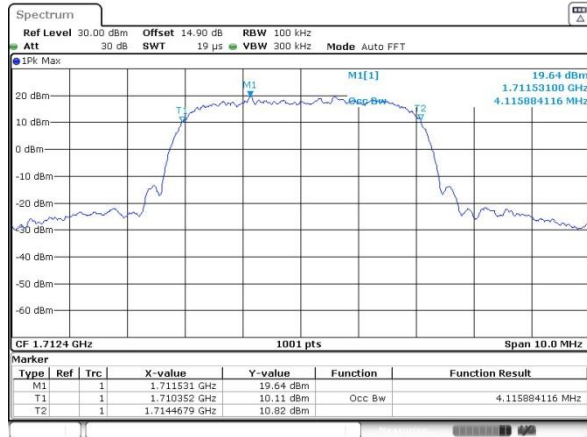
## Highest Channel



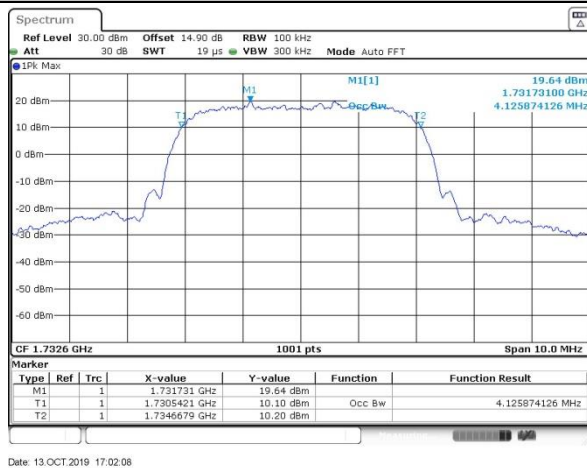
Date: 13.OCT.2019 16:55:07

### WCDMA Band IV (RMC 12.2Kbps)

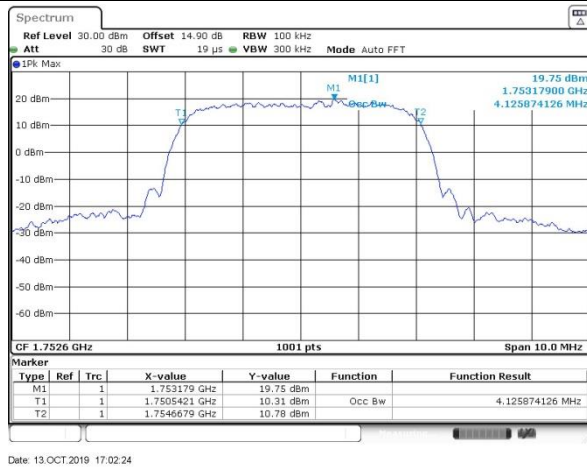
#### Lowest Channel

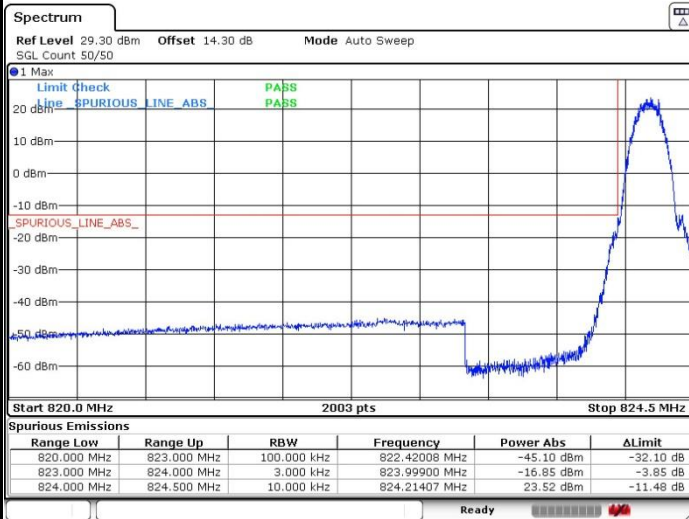


#### Middle Channel

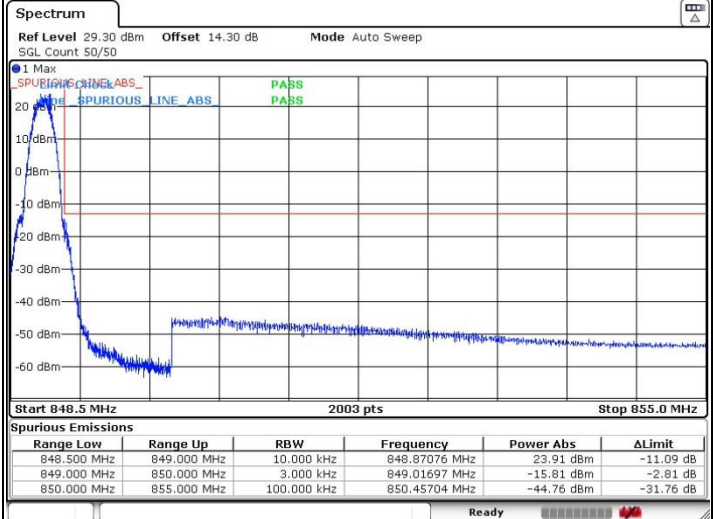


#### Highest Channel

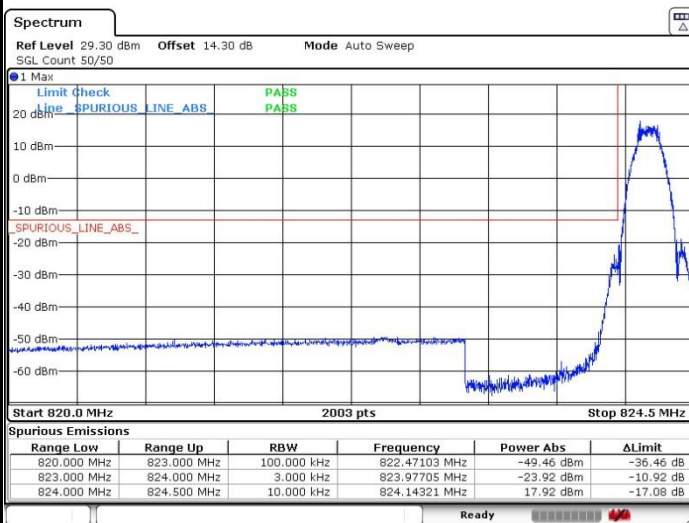


**Conducted Band Edge****GSM850 (GSM)****Lowest Band Edge**

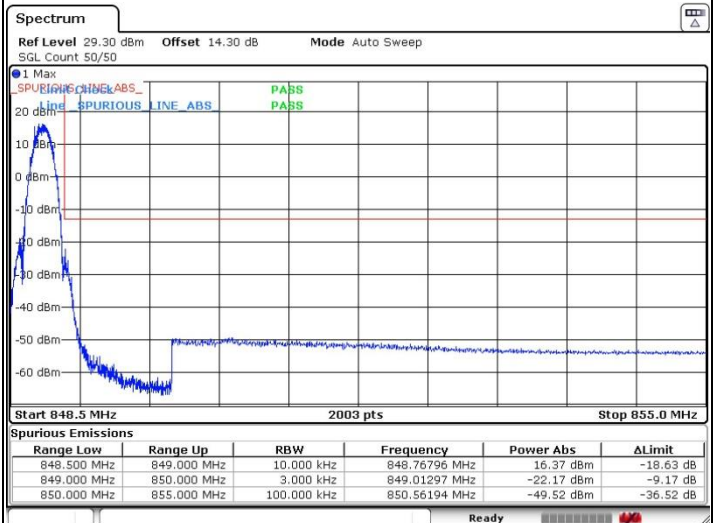
Date: 13.OCT.2019 15:27:08

**Highest Band Edge**

Date: 13.OCT.2019 15:29:03

**GSM850 (EDGE class 8)****Lowest Band Edge**

Date: 13.OCT.2019 16:06:56

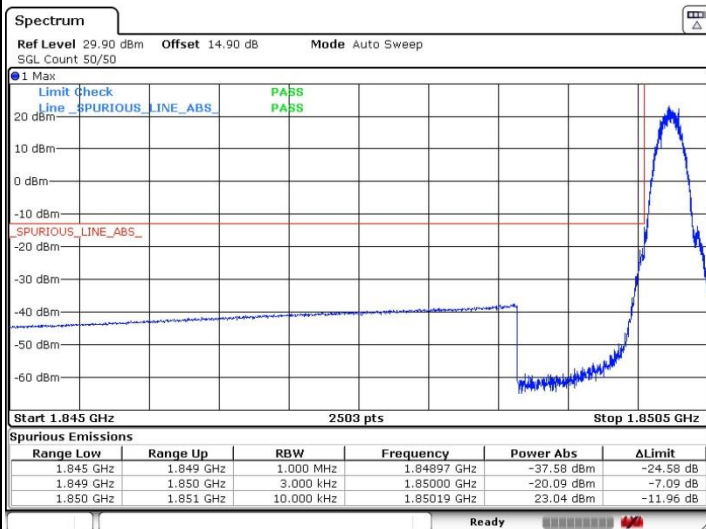
**Highest Band Edge**

Date: 13.OCT.2019 16:08:34

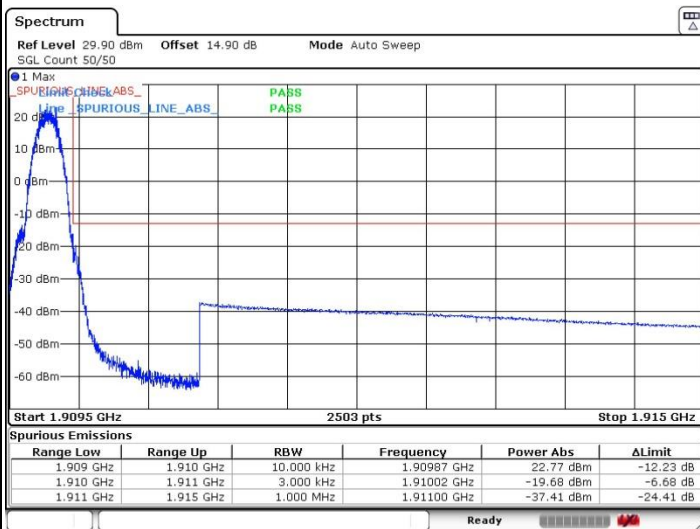


## GSM1900 (GSM)

## Lowest Band Edge

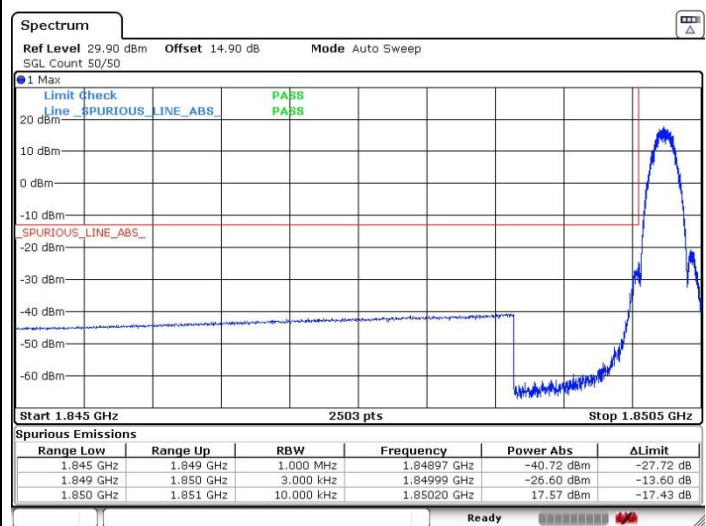


## Highest Band Edge

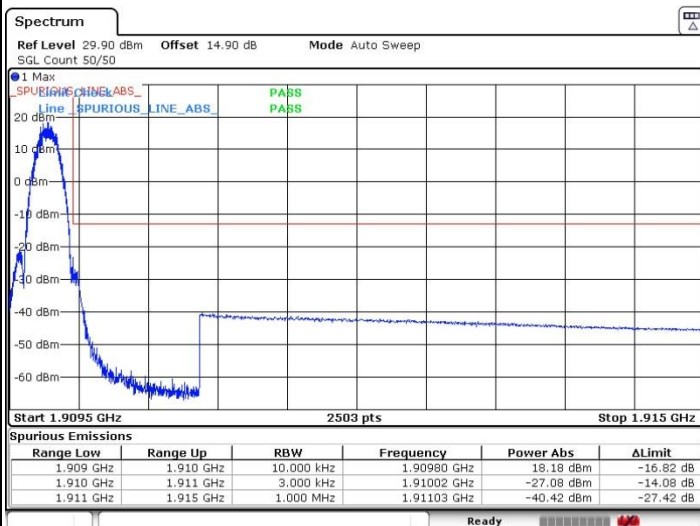


## GSM1900 (EDGE class 8)

## Lowest Band Edge



## Highest Band Edge







## WCDMA Band V (RMC 12.2Kbps)

## Lowest Band Edge



Date: 13.OCT.2019 16:47:19

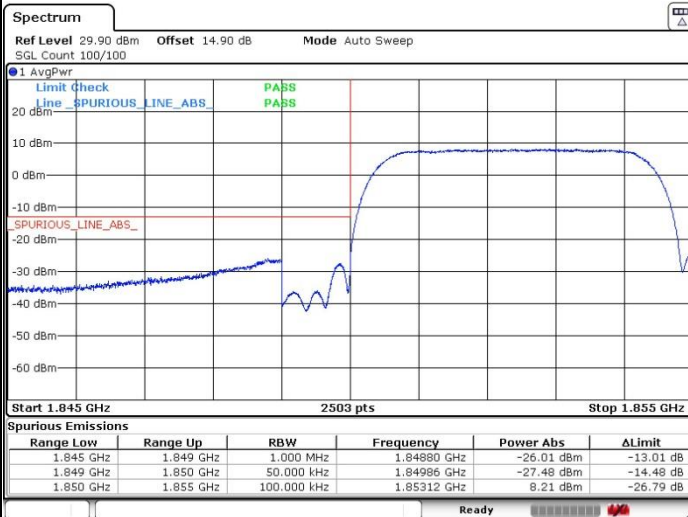
## Highest Band Edge



Date: 13.OCT.2019 16:48:35

## WCDMA Band II (RMC 12.2Kbps)

## Lowest Band Edge



Date: 13.OCT.2019 16:56:10

## Highest Band Edge



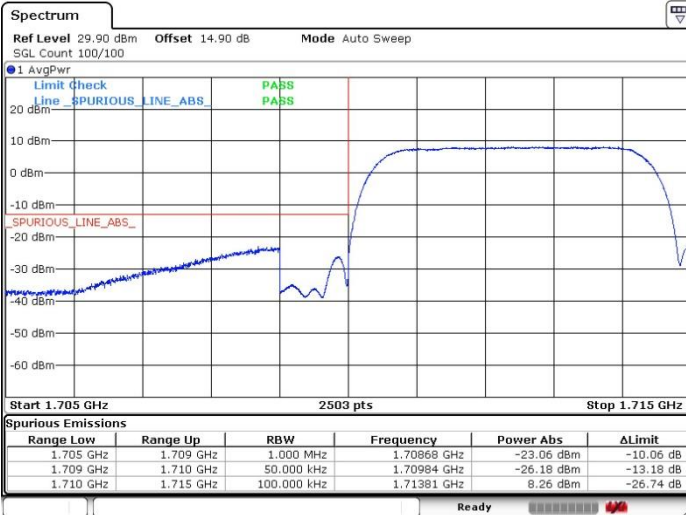
Date: 13.OCT.2019 16:57:00



## WCDMA Band IV (RMC 12.2Kbps)

## Lowest Band Edge

## Highest Band Edge



Date: 13.OCT.2019 17:03:42



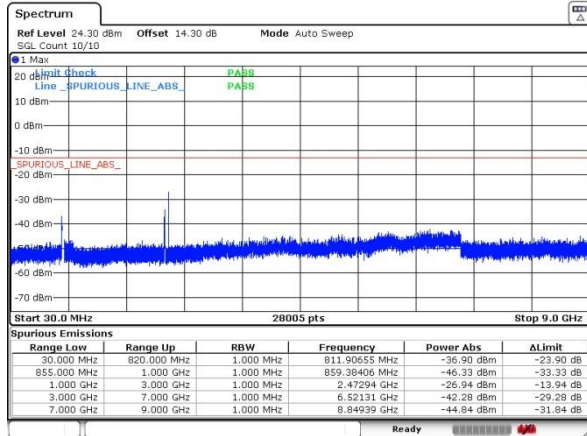
Date: 13.OCT.2019 17:04:36



## Conducted Spurious Emission

### GSM850 (GSM)

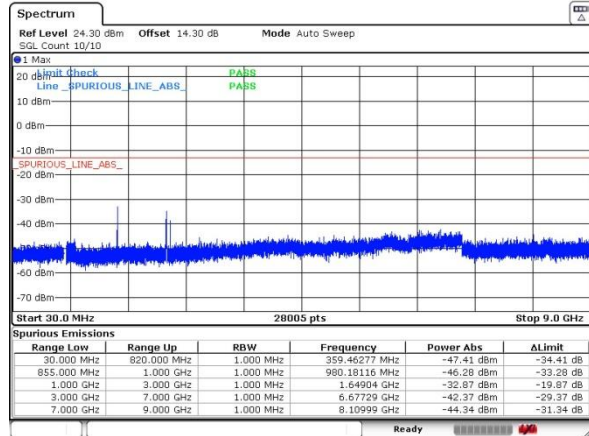
#### Lowest Channel



Date: 13.OCT.2019 15:29:36

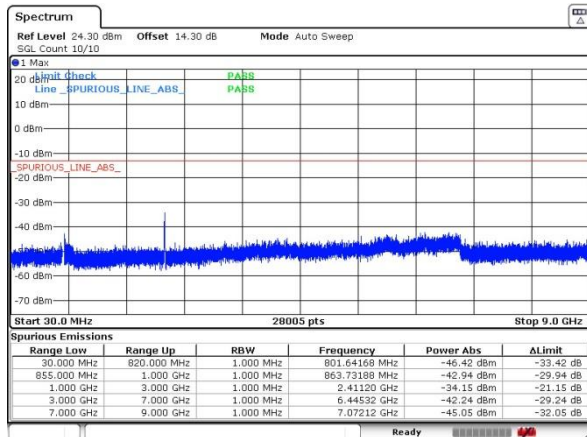
### GSM850 (EDGE class 8)

#### Lowest Channel



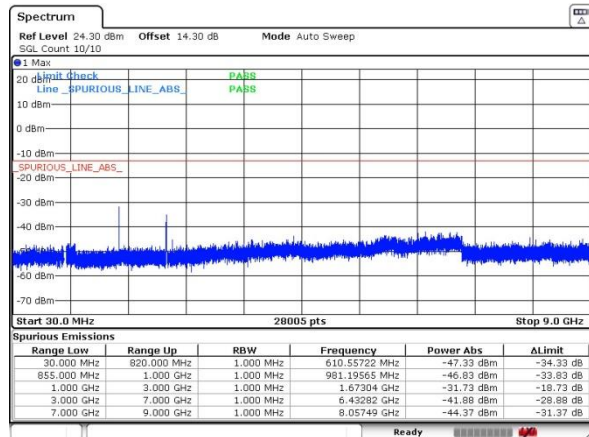
Date: 13.OCT.2019 16:09:01

### Middle Channel



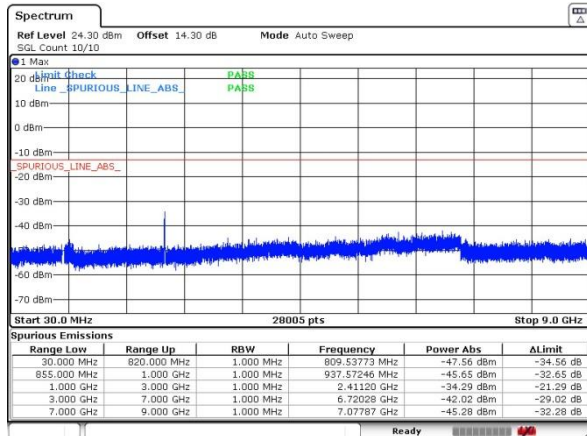
Date: 13.OCT.2019 15:30:12

### Middle Channel



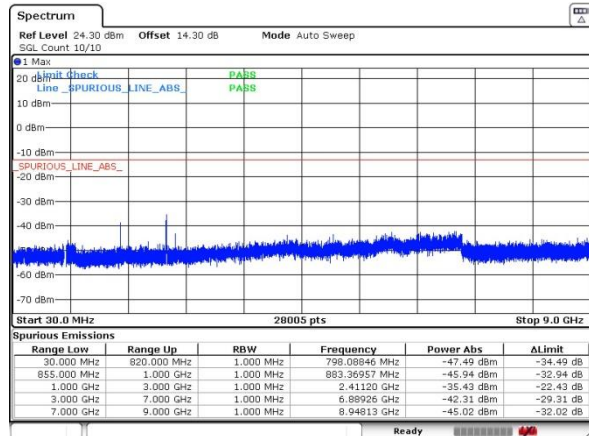
Date: 13.OCT.2019 16:09:21

### Highest Channel



Date: 13.OCT.2019 15:30:28

### Highest Channel



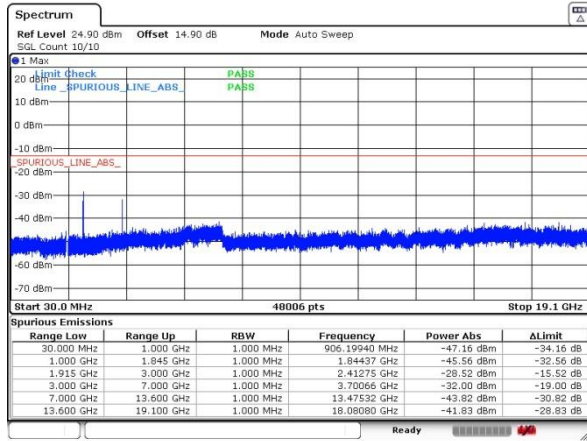
Date: 13.OCT.2019 16:09:34





## GSM1900 (GSM)

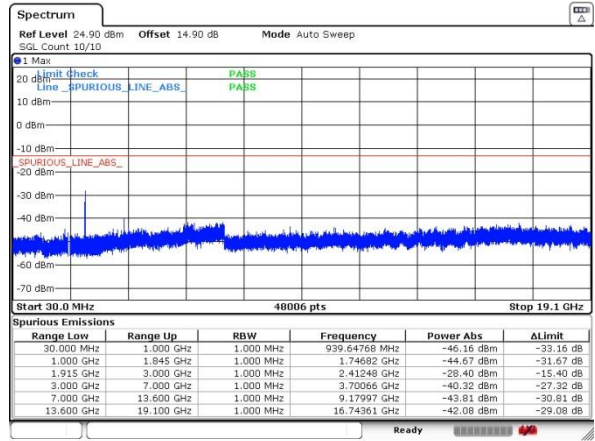
## Lowest Channel



Date: 13.OCT.2019 16:24:09

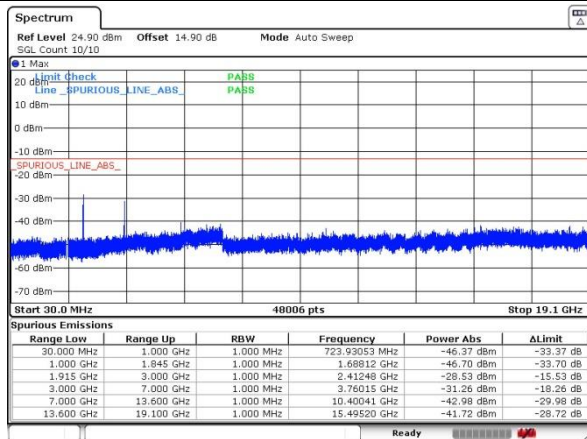
## GSM1900 (EDGE class 8)

## Lowest Channel



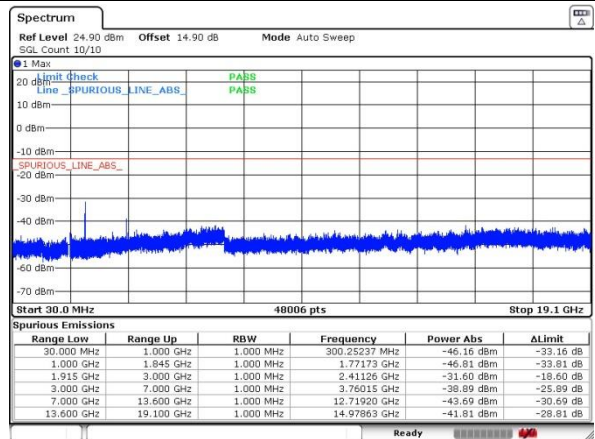
Date: 13.OCT.2019 16:34:03

## Middle Channel



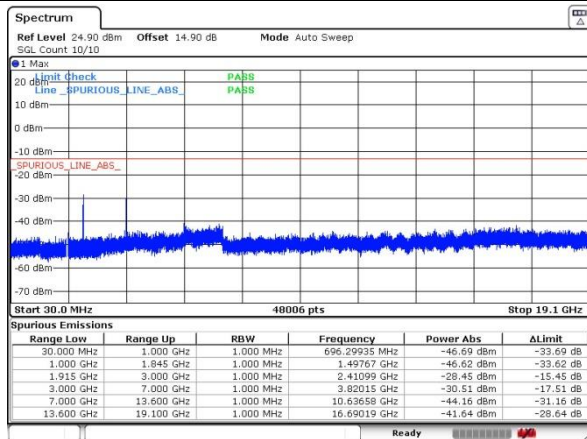
Date: 13.OCT.2019 16:24:24

## Middle Channel



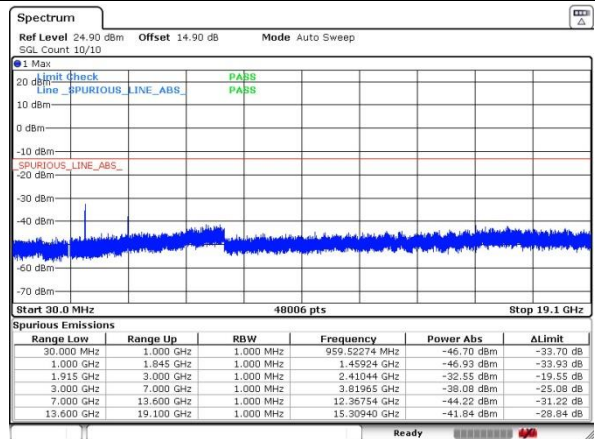
Date: 13.OCT.2019 16:34:16

## Highest Channel



Date: 13.OCT.2019 16:24:44

## Highest Channel

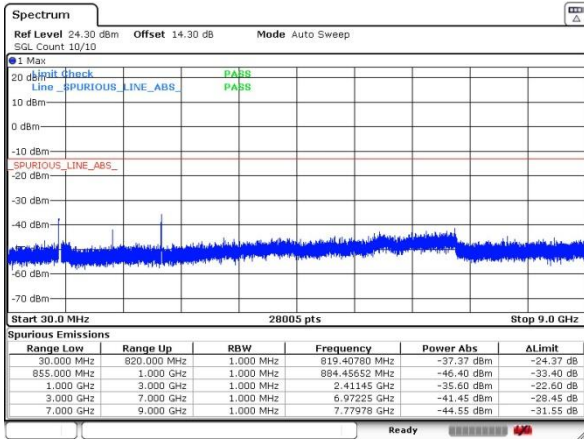


Date: 13.OCT.2019 16:34:34



## WCDMA Band V (RMC 12.2Kbps)

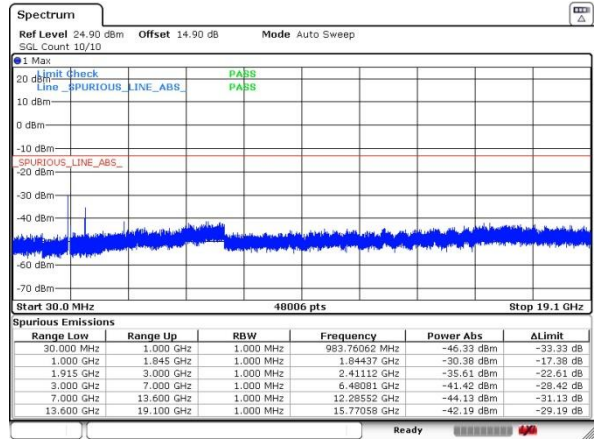
## Lowest Channel



Date: 13.OCT.2019 16:48:59

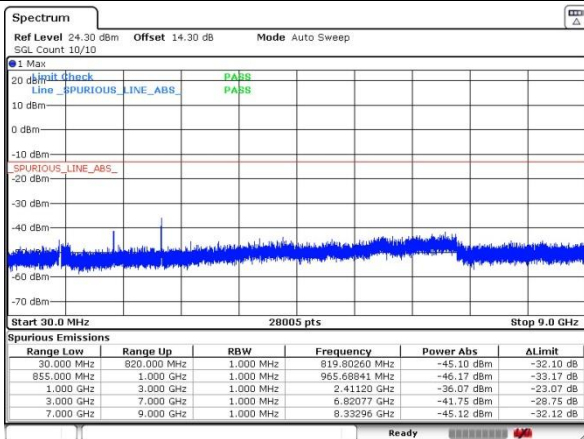
## WCDMA Band II (RMC 12.2Kbps)

## Lowest Channel



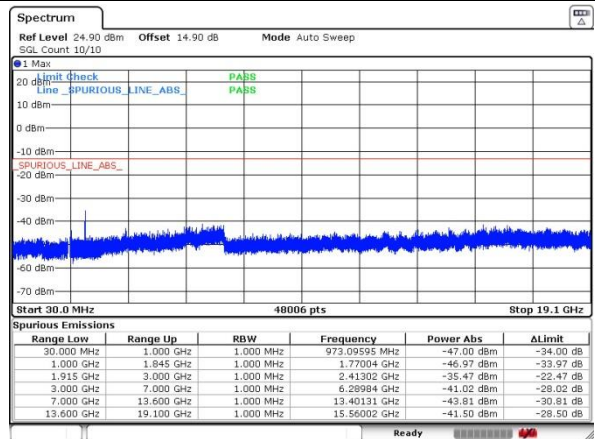
Date: 13.OCT.2019 16:57:24

## Middle Channel



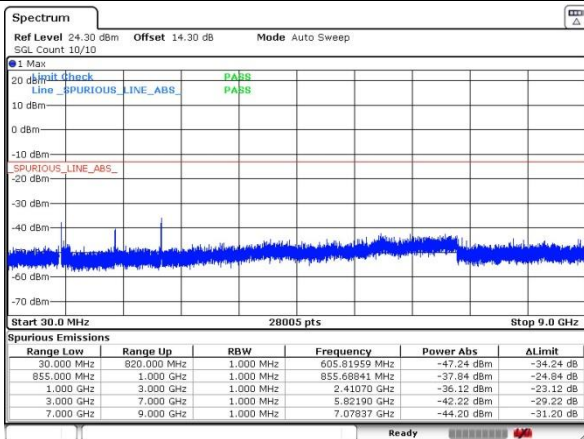
Date: 13.OCT.2019 16:49:14

## Middle Channel



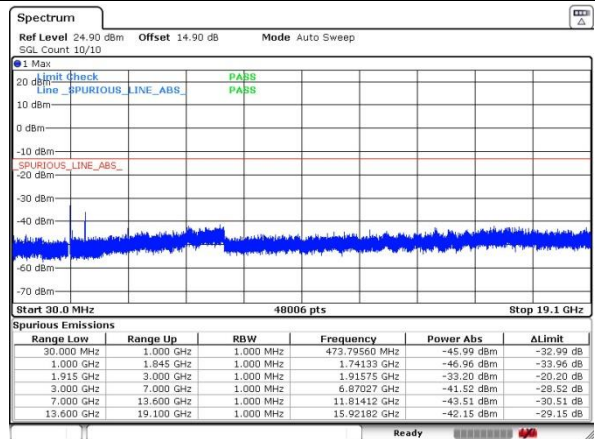
Date: 13.OCT.2019 16:57:42

## Highest Channel



Date: 13.OCT.2019 16:49:34

## Highest Channel

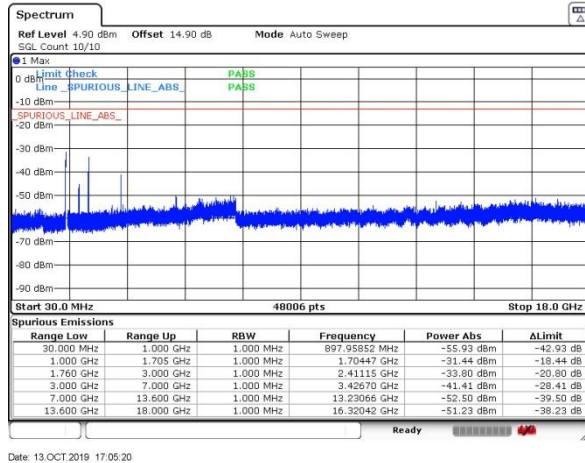


Date: 13.OCT.2019 16:57:59



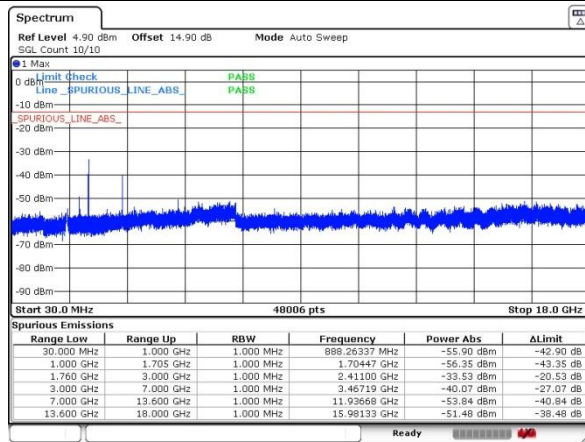
## WCDMA Band IV (RMC 12.2Kbps)

## Lowest Channel



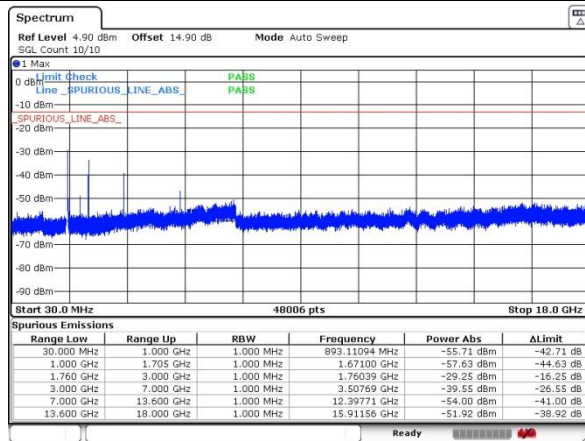
Date: 13.OCT.2019 17:05:20

## Middle Channel



Date: 13.OCT.2019 17:05:43

## Highest Channel



Date: 13.OCT.2019 17:06:14

**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    | 0.0120          | 0.0251                   | PASS            |
| 40               | Normal Voltage    | 0.0072          | 0.0239                   |                 |
| 30               | Normal Voltage    | 0.0132          | 0.0084                   |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000          | 0.0000                   |                 |
| 10               | Normal Voltage    | 0.0167          | 0.0167                   |                 |
| 0                | Normal Voltage    | 0.0072          | 0.0012                   |                 |
| -10              | Normal Voltage    | 0.0203          | 0.0227                   |                 |
| -20              | Normal Voltage    | 0.0227          | 0.0060                   |                 |
| -30              | Normal Voltage    | 0.0143          | 0.0108                   |                 |
| 20               | Maximum Voltage   | 0.0096          | 0.0275                   |                 |
| 20               | Normal Voltage    | 0.0120          | 0.0203                   |                 |
| 20               | Battery End Point | 0.0191          | 0.0036                   |                 |

**Note:** Normal Voltage = 3.8V ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.2V



| 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    | 0.0011           | 0.0181                    | PASS             |
| 40               | Normal Voltage    | 0.0005           | 0.0133                    |                  |
| 30               | Normal Voltage    | 0.0037           | 0.0170                    |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000           | 0.0000                    |                  |
| 10               | Normal Voltage    | 0.0133           | 0.0106                    |                  |
| 0                | Normal Voltage    | 0.0106           | 0.0149                    |                  |
| -10              | Normal Voltage    | 0.0090           | 0.0170                    |                  |
| -20              | Normal Voltage    | 0.0027           | 0.0122                    |                  |
| -30              | Normal Voltage    | 0.0000           | 0.0117                    |                  |
| 20               | Maximum Voltage   | 0.0069           | 0.0117                    |                  |
| 20               | Normal Voltage    | 0.0016           | 0.0138                    |                  |
| 20               | Battery End Point | 0.0128           | 0.0027                    |                  |

**Note:**

1. Normal Voltage = 3.8V ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.2V
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    | 0.0060                                     | PASS            |
| 40               | Normal Voltage    | 0.0036                                     |                 |
| 30               | Normal Voltage    | 0.0120                                     |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000                                     |                 |
| 10               | Normal Voltage    | 0.0000                                     |                 |
| 0                | Normal Voltage    | 0.0167                                     |                 |
| -10              | Normal Voltage    | 0.0000                                     |                 |
| -20              | Normal Voltage    | 0.0131                                     |                 |
| -30              | Normal Voltage    | 0.0143                                     |                 |
| 20               | Maximum Voltage   | 0.0299                                     |                 |
| 20               | Normal Voltage    | 0.0036                                     |                 |
| 20               | Battery End Point | 0.0143                                     |                 |

**Note:** Normal Voltage = 3.8V ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.2V



| 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    | 0.0027                          | PASS             |
| 40               | Normal Voltage    | 0.0074                          |                  |
| 30               | Normal Voltage    | 0.0064                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0053                          |                  |
| 0                | Normal Voltage    | 0.0074                          |                  |
| -10              | Normal Voltage    | 0.0005                          |                  |
| -20              | Normal Voltage    | 0.0085                          |                  |
| -30              | Normal Voltage    | 0.0021                          |                  |
| 20               | Maximum Voltage   | 0.0011                          |                  |
| 20               | Normal Voltage    | 0.0048                          |                  |
| 20               | Battery End Point | 0.0000                          |                  |

**Note:**

1. Normal Voltage = 3.8V ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.2V
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 IV<br>(RMC 12.2Kbps) | Limit<br>Note 2. |
|------------------|-------------------|---------------------------------|------------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)                 | Result           |
| 50               | Normal Voltage    | 0.0061                          | PASS             |
| 40               | Normal Voltage    | 0.0171                          |                  |
| 30               | Normal Voltage    | 0.0110                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0183                          |                  |
| 0                | Normal Voltage    | 0.0195                          |                  |
| -10              | Normal Voltage    | 0.0183                          |                  |
| -20              | Normal Voltage    | 0.0073                          |                  |
| -30              | Normal Voltage    | 0.0158                          |                  |
| 20               | Maximum Voltage   | 0.0012                          |                  |
| 20               | Normal Voltage    | 0.0024                          |                  |
| 20               | Battery End Point | 0.0207                          |                  |

**Note:**

1. Normal Voltage = 3.8V ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.2V
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              | -52.73      | -13           | -39.73            | -59.70             | 1.58                 | 10.70                 | H                  |
|              | 2510              | -57.30      | -13           | -44.30            | -65.55             | 2.102                | 12.50                 | H                  |
|              | 3348              | -59.98      | -13           | -46.98            | -68.87             | 2.856                | 13.90                 | H                  |
|              | 1672              | -53.75      | -13           | -40.75            | -60.72             | 1.58                 | 10.70                 | V                  |
|              | 2510              | -53.32      | -13           | -40.32            | -61.57             | 2.10                 | 12.50                 | V                  |
|              | 3348              | -58.75      | -13           | -45.75            | -67.64             | 2.86                 | 13.90                 | 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              | -50.34      | -13           | -37.34            | -57.31             | 1.58                 | 10.70                 | H                  |
|                       | 2510              | -56.02      | -13           | -43.02            | -64.27             | 2.102                | 12.50                 | H                  |
|                       | 3348              | -59.00      | -13           | -46.00            | -67.89             | 2.856                | 13.90                 | H                  |
|                       | 1672              | -54.70      | -13           | -41.70            | -61.67             | 1.58                 | 10.70                 | V                  |
|                       | 2510              | -53.03      | -13           | -40.03            | -61.28             | 2.10                 | 12.50                 | V                  |
|                       | 3348              | -60.90      | -13           | -47.90            | -69.79             | 2.86                 | 13.90                 | V                  |

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

| GSM1900 (GSM) |                      |                 |                  |                         |                          |                            |                             |                       |
|---------------|----------------------|-----------------|------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel       | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle        | 3759                 | -56.95          | -13              | -43.95                  | -69.21                   | 2.641                      | 14.90                       | H                     |
|               | 5640                 | -55.82          | -13              | -42.82                  | -67.68                   | 2.94                       | 14.80                       | H                     |
|               | 7524                 | -50.49          | -13              | -37.49                  | -60.26                   | 3.39                       | 13.16                       | H                     |
|               | 3760                 | -56.97          | -13              | -43.97                  | -69.23                   | 2.64                       | 14.90                       | V                     |
|               | 5640                 | -55.17          | -13              | -42.17                  | -67.03                   | 2.94                       | 14.80                       | V                     |
|               | 7524                 | -49.83          | -13              | -36.83                  | -59.60                   | 3.39                       | 13.16                       | V                     |

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

| GSM1900 (EDGE class 8) |                      |                 |                  |                         |                          |                            |                             |                       |
|------------------------|----------------------|-----------------|------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                 | 3759                 | -57.30          | -13              | -44.30                  | -69.56                   | 2.641                      | 14.90                       | H                     |
|                        | 5640                 | -55.52          | -13              | -42.52                  | -67.38                   | 2.94                       | 14.80                       | H                     |
|                        | 7524                 | -50.51          | -13              | -37.51                  | -60.28                   | 3.39                       | 13.16                       | H                     |
|                        | 3760                 | -56.92          | -13              | -43.92                  | -69.18                   | 2.64                       | 14.90                       | V                     |
|                        | 5640                 | -55.13          | -13              | -42.13                  | -66.99                   | 2.94                       | 14.80                       | V                     |
|                        | 7524                 | -50.34          | -13              | -37.34                  | -60.11                   | 3.39                       | 13.16                       | 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              | -67.91      | -13           | -54.91            | -74.88             | 1.58                 | 10.70                 | H                  |
|                            | 2509.2            | -63.93      | -13           | -50.93            | -72.18             | 2.102                | 12.50                 | H                  |
|                            | 3348              | -63.99      | -13           | -50.99            | -72.88             | 2.856                | 13.90                 | H                  |
|                            | 1672              | -68.09      | -13           | -55.09            | -75.06             | 1.58                 | 10.70                 | V                  |
|                            | 2510              | -63.91      | -13           | -50.91            | -72.16             | 2.10                 | 12.50                 | V                  |
|                            | 3348              | -63.94      | -13           | -50.94            | -72.83             | 2.86                 | 13.90                 | 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 ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                      | 3759              | -57.33       | -13           | -44.33            | -69.59             | 2.641                | 14.90                 | H                  |
|                             | 5640              | -55.82       | -13           | -42.82            | -67.68             | 2.94                 | 14.80                 | H                  |
|                             | 7524              | -50.45       | -13           | -37.45            | -60.22             | 3.39                 | 13.16                 | H                  |
|                             | 3759              | -56.73       | -13           | -43.73            | -68.99             | 2.64                 | 14.90                 | V                  |
|                             | 5640              | -55.29       | -13           | -42.29            | -67.15             | 2.94                 | 14.80                 | V                  |
|                             | 7524              | -50.03       | -13           | -37.03            | -59.80             | 3.39                 | 13.16                 | V                  |

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

| WCDMA Band IV(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                      | 3465              | -61.42       | -13           | -48.42            | -72.16             | 2.604                | 13.34                 | H                  |
|                             | 5197.8            | -56.69       | -13           | -43.69            | -67.20             | 3.011                | 13.52                 | H                  |
|                             | 6930              | -52.93       | -13           | -39.93            | -63.13             | 3.271                | 13.47                 | H                  |
|                             | 3465.2            | -61.46       | -13           | -48.46            | -72.20             | 2.604                | 13.34                 | V                  |
|                             | 5199              | -56.91       | -13           | -43.91            | -67.42             | 3.011                | 13.52                 | V                  |
|                             | 6930              | -52.63       | -13           | -39.63            | -62.83             | 3.271                | 13.47                 | V                  |

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