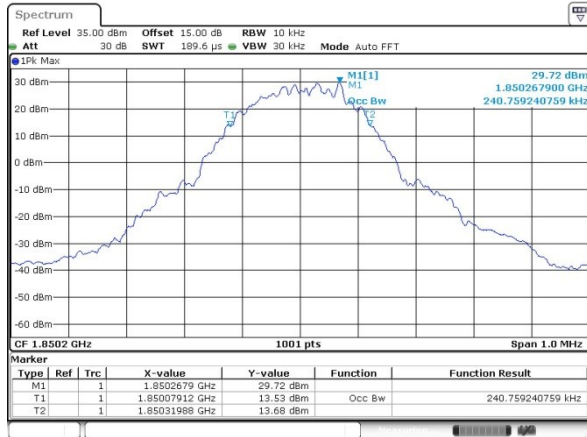




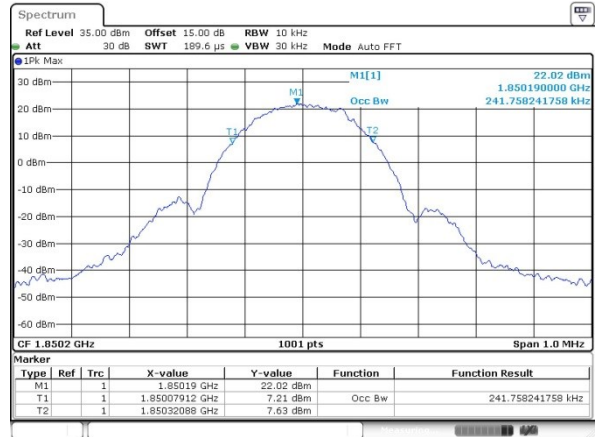
## GSM1900 (GSM)

## Lowest Channel

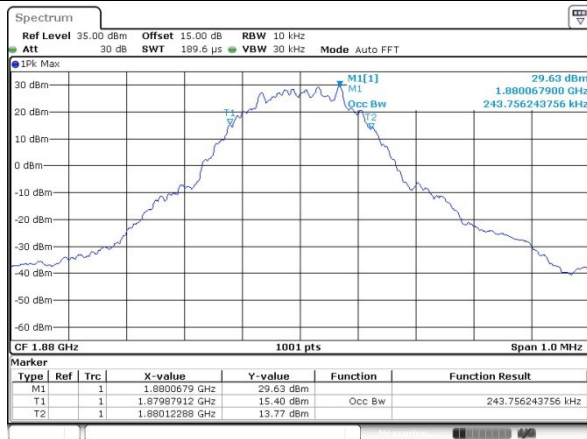


## GSM1900 (EDGE class 8)

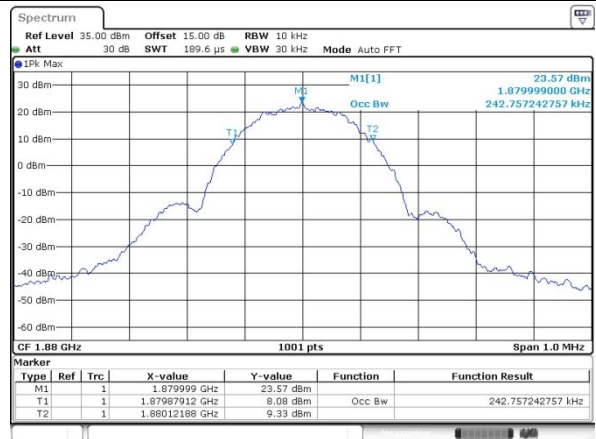
## Lowest Channel



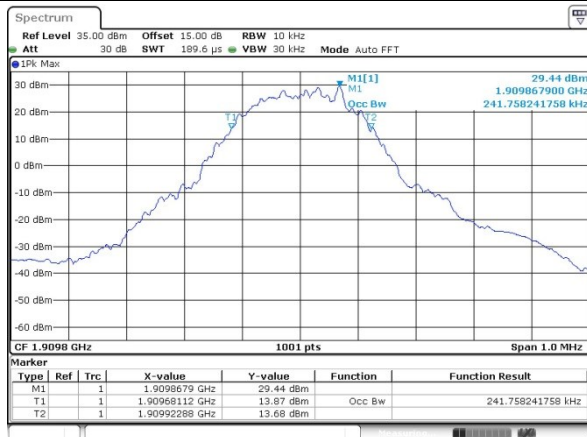
## Middle Channel



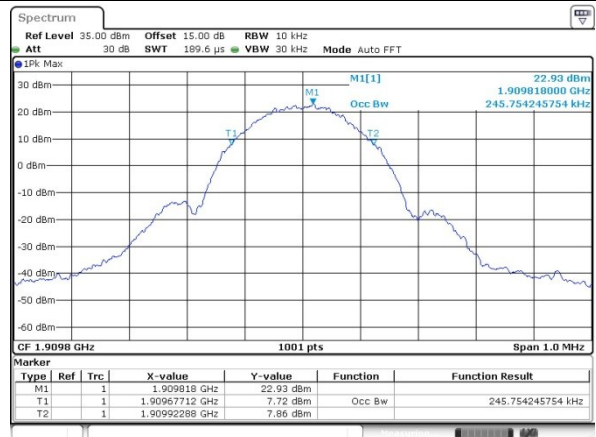
## Middle Channel



## Highest Channel



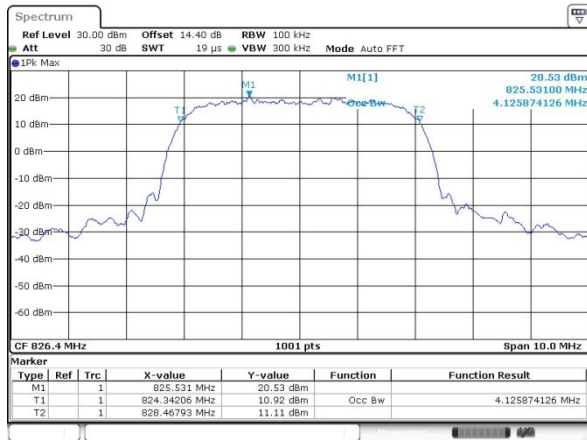
## Highest Channel





## WCDMA Band V (RMC 12.2Kbps)

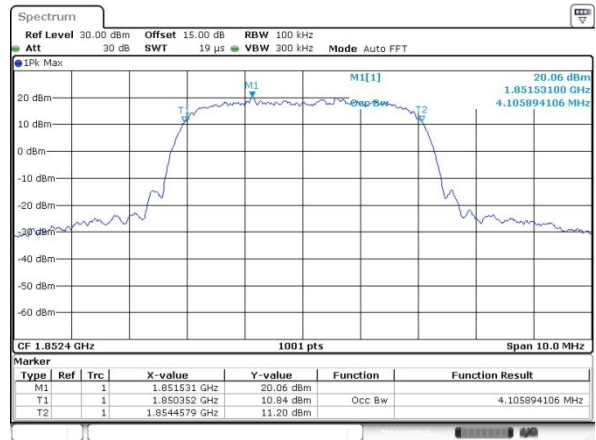
## Lowest Channel



Date: 3 MAY 2018 14:55:39

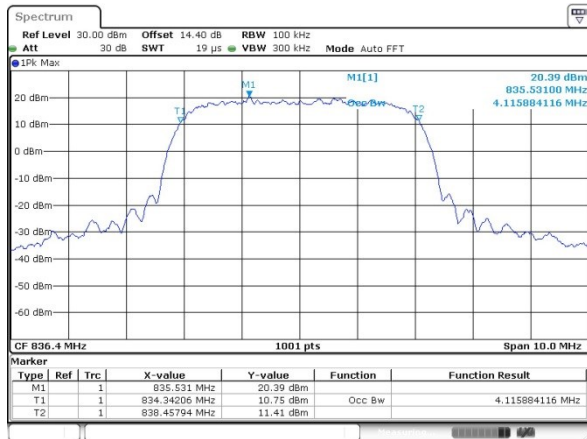
## WCDMA Band II (RMC 12.2Kbps)

## Lowest Channel



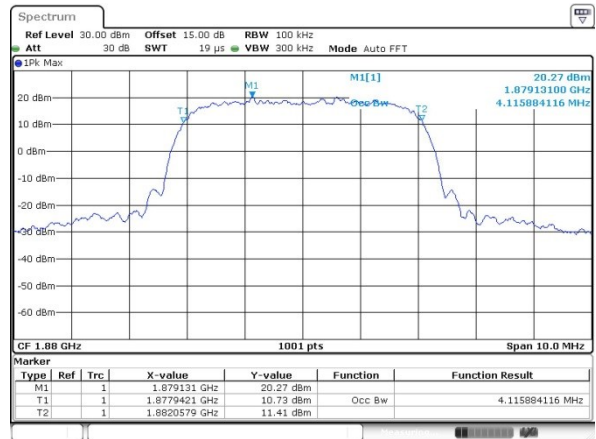
Date: 3 MAY 2018 15:21:37

## Middle Channel



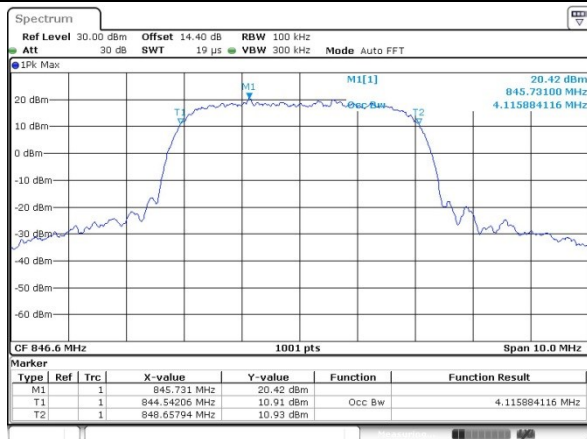
Date: 3 MAY 2018 14:56:14

## Middle Channel



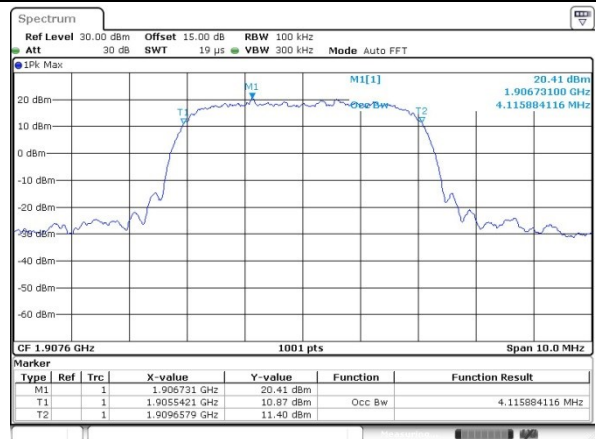
Date: 3 MAY 2018 15:22:13

## Highest Channel



Date: 3 MAY 2018 14:56:49

## Highest Channel

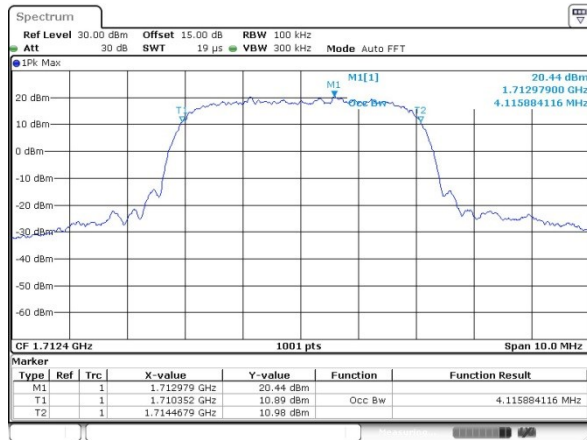


Date: 3 MAY 2018 15:22:50

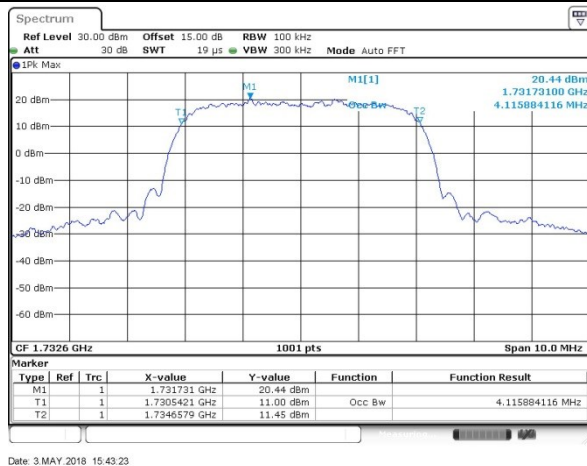


### WCDMA Band IV (RMC 12.2Kbps)

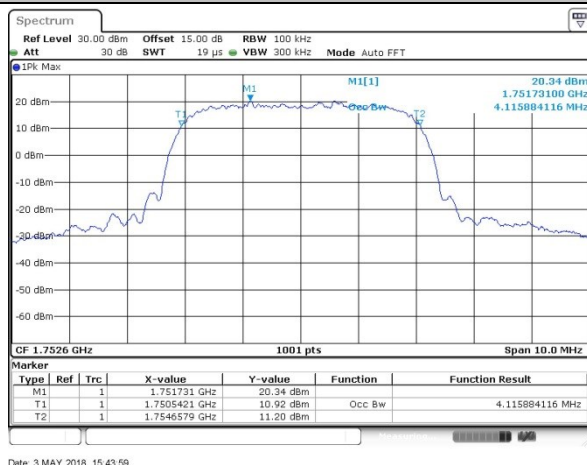
#### Lowest Channel

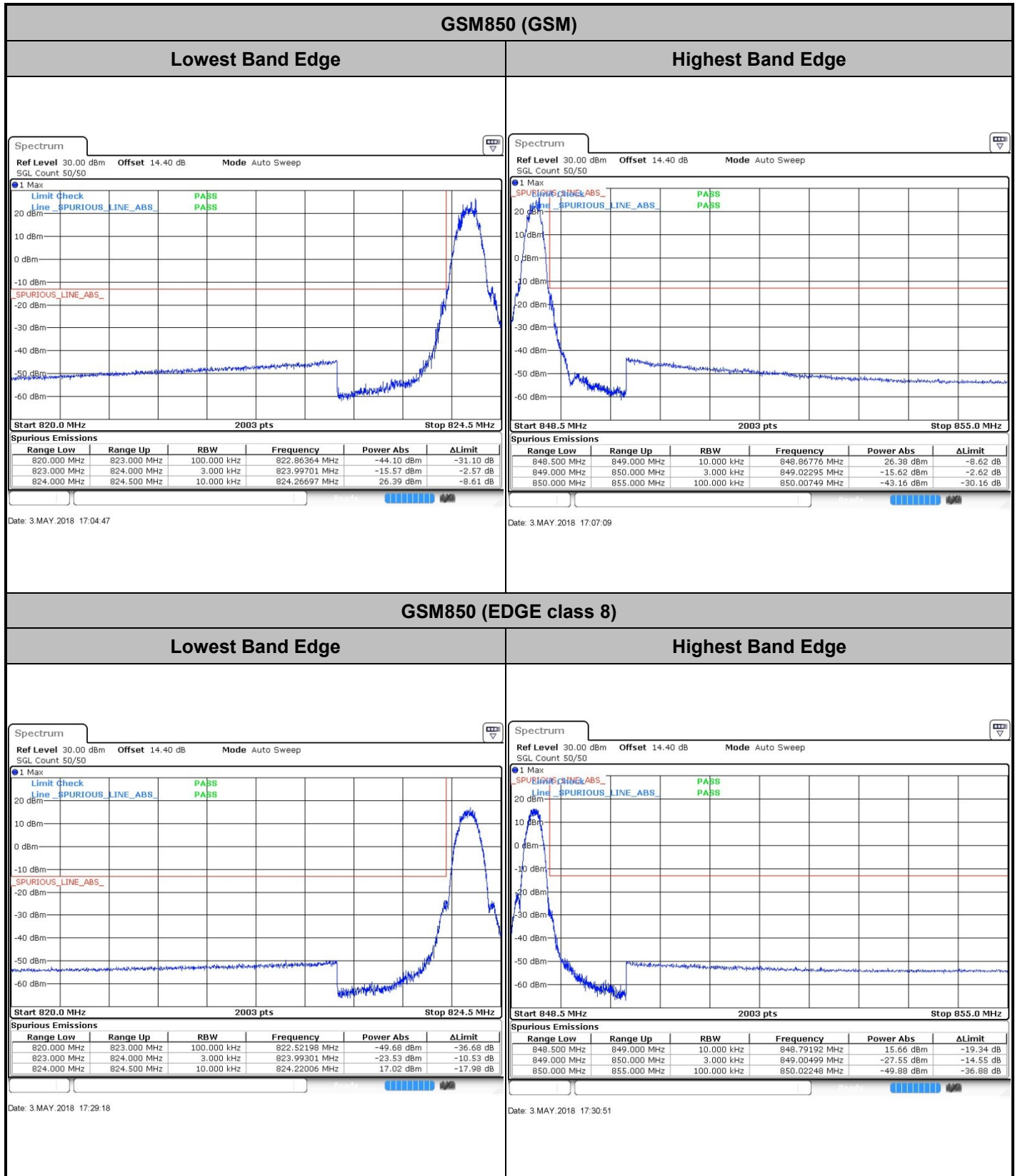


#### Middle Channel



#### Highest Channel

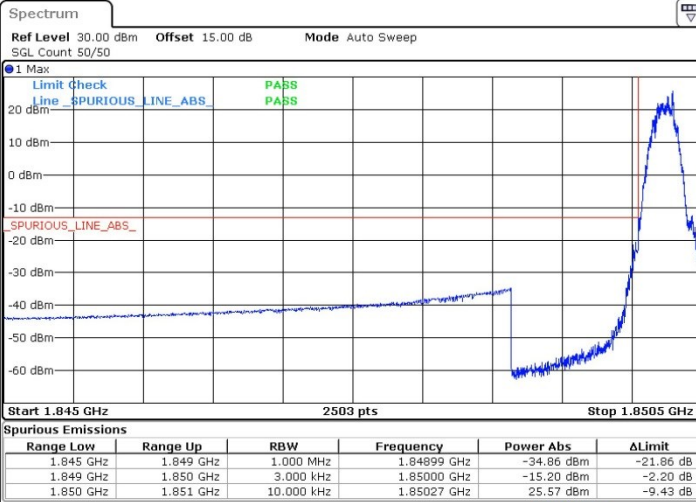


**Conducted Band Edge**

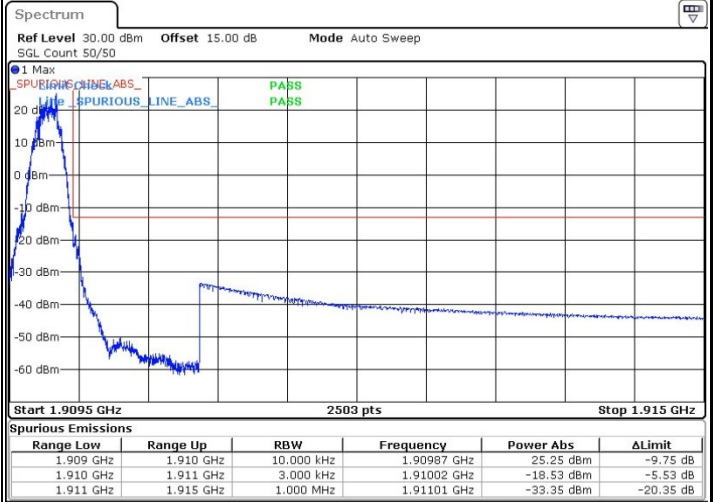


## GSM1900 (GSM)

## Lowest Band Edge

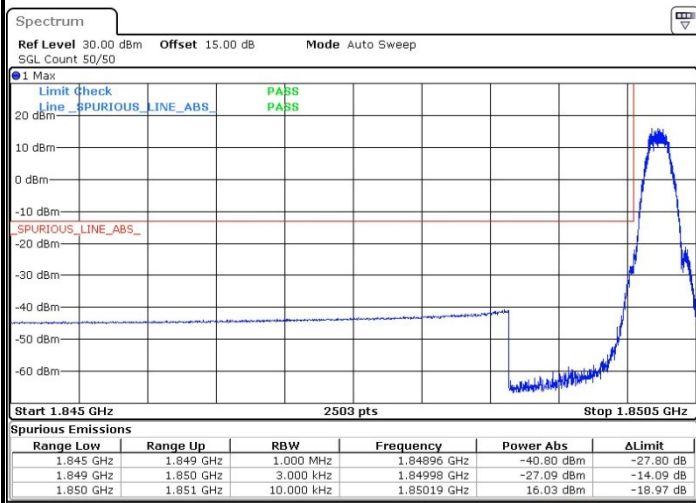


## Highest Band Edge

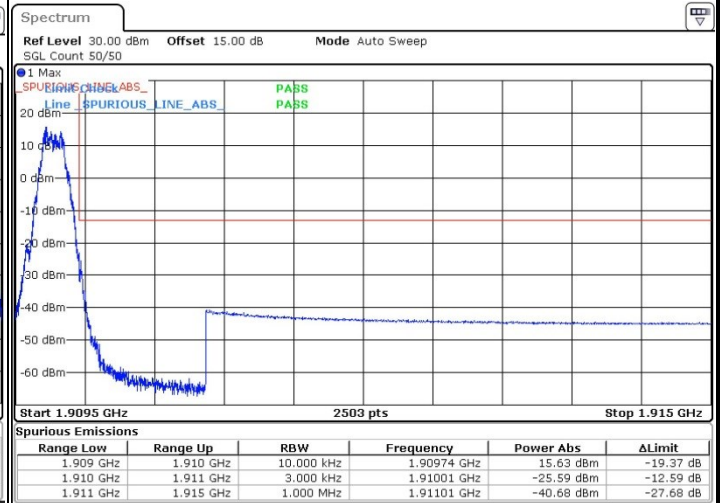


## GSM1900 (EDGE class 8)

## Lowest Band Edge



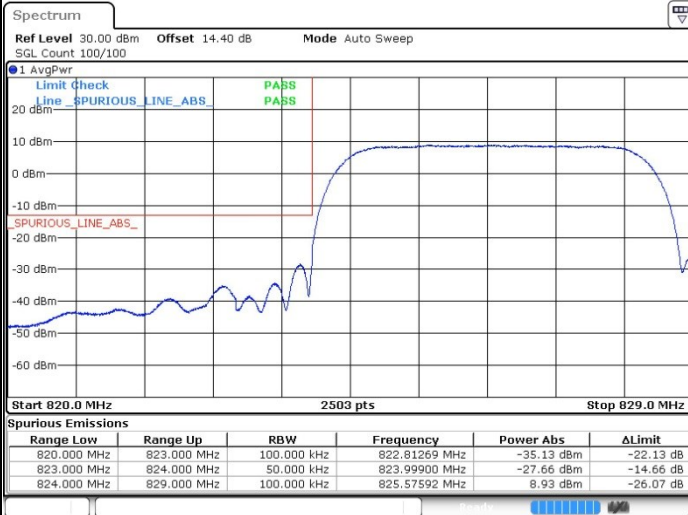
## Highest Band Edge





## WCDMA Band V (RMC 12.2Kbps)

## Lowest Band Edge

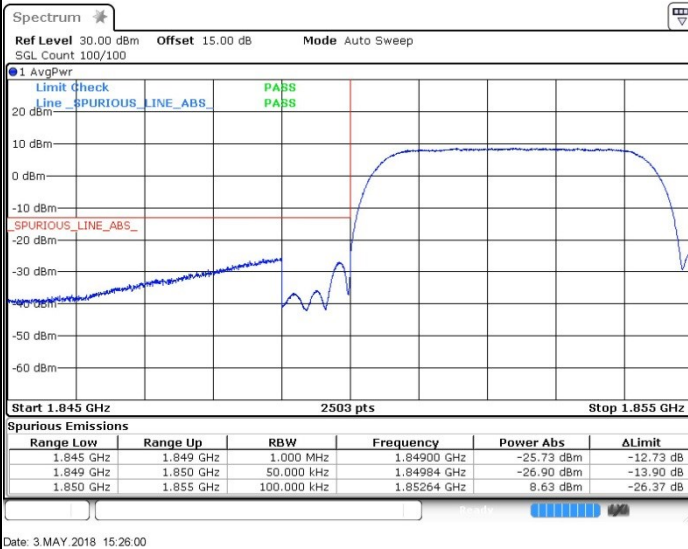


## Highest Band Edge

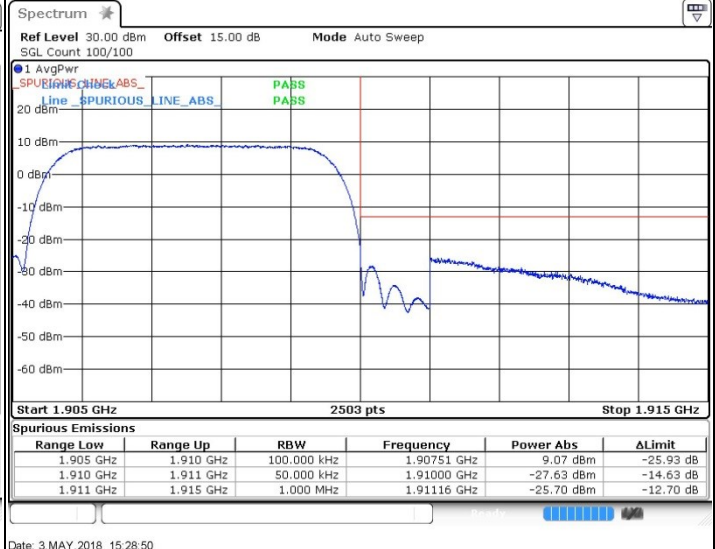


## WCDMA Band II (RMC 12.2Kbps)

## Lowest Band Edge



## Highest Band Edge





## WCDMA Band IV (RMC 12.2Kbps)

## Lowest Band Edge



Date: 3 MAY 2018 15:47:23

## Highest Band Edge



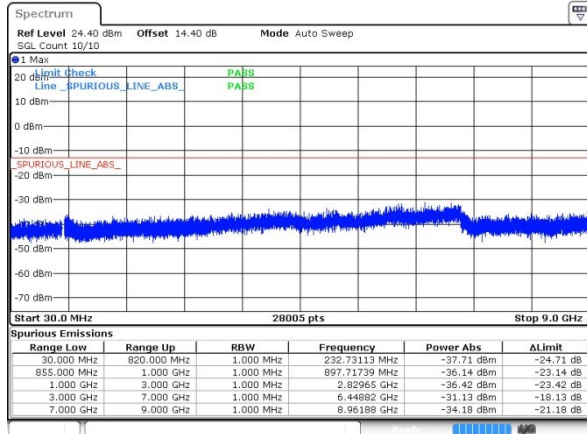
Date: 3 MAY 2018 15:50:15



## Conducted Spurious Emission

### GSM850 (GSM)

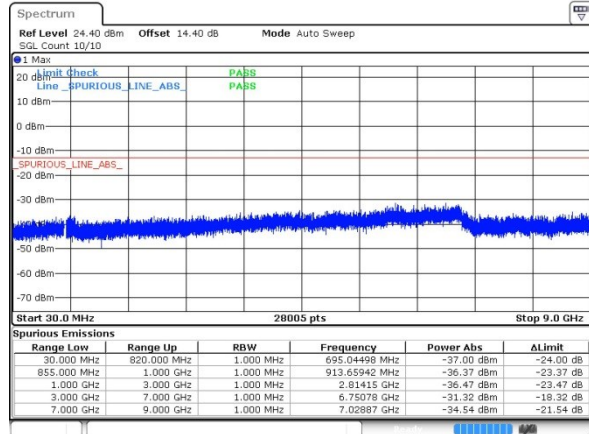
#### Lowest Channel



Date: 3 MAY 2018 17:09:06

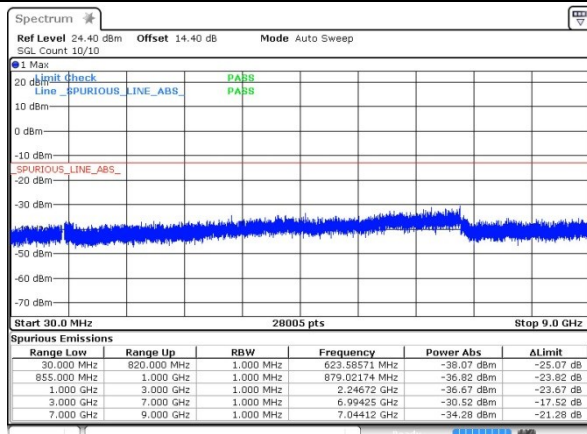
### GSM850 (EDGE class 8)

#### Lowest Channel



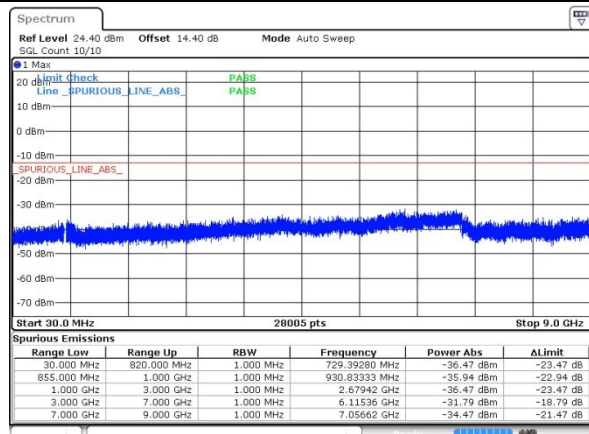
Date: 3 MAY 2018 17:32:16

#### Middle Channel



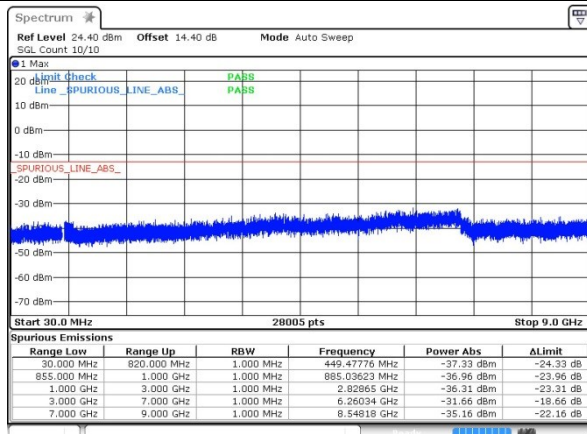
Date: 3 MAY 2018 17:10:27

#### Middle Channel



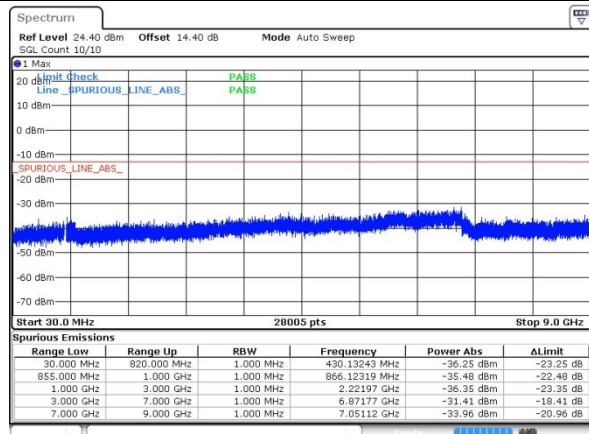
Date: 3 MAY 2018 17:33:36

#### Highest Channel



Date: 3 MAY 2018 17:11:47

#### Highest Channel

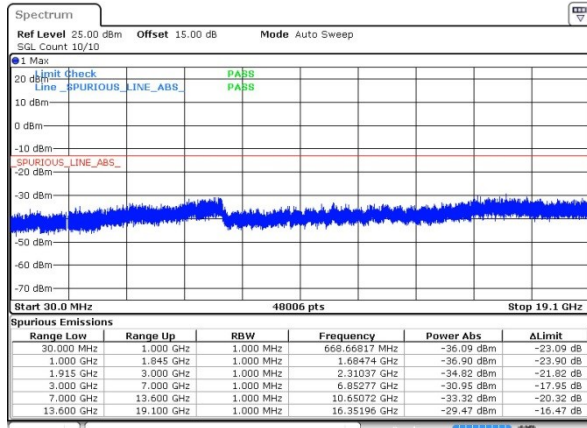


Date: 3 MAY 2018 17:34:57



## GSM1900 (GSM)

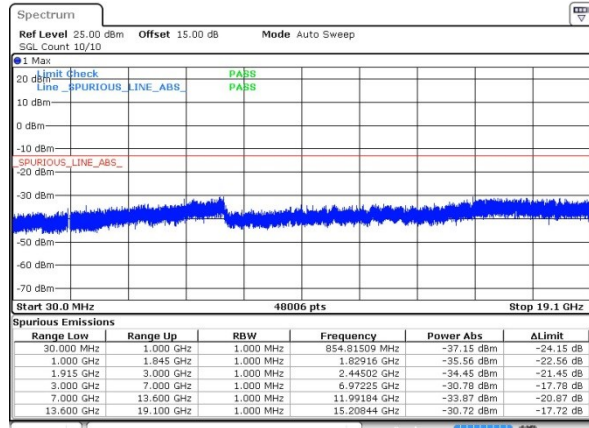
## Lowest Channel



Date: 3 MAY 2018 16:13:34

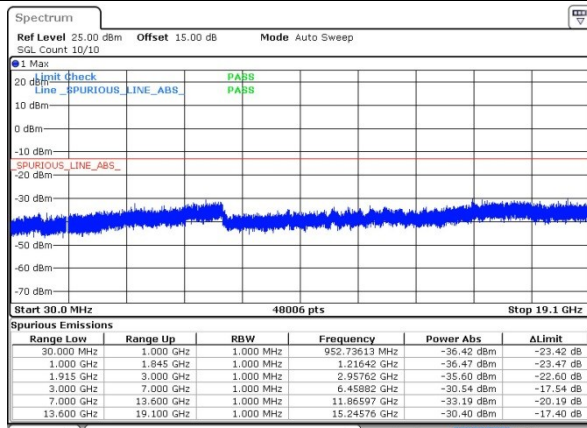
## GSM1900 (EDGE class 8)

## Lowest Channel

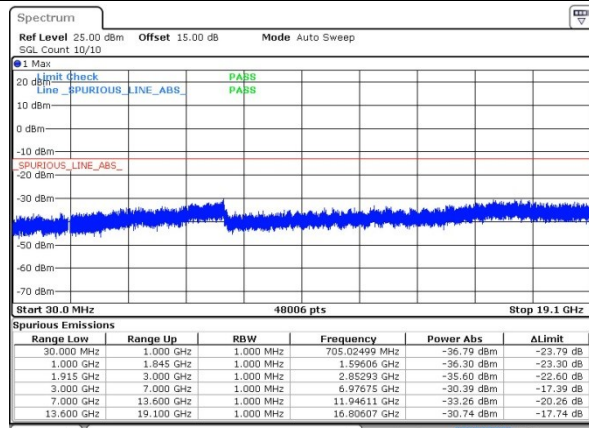


Date: 3 MAY 2018 16:42:22

## Middle Channel

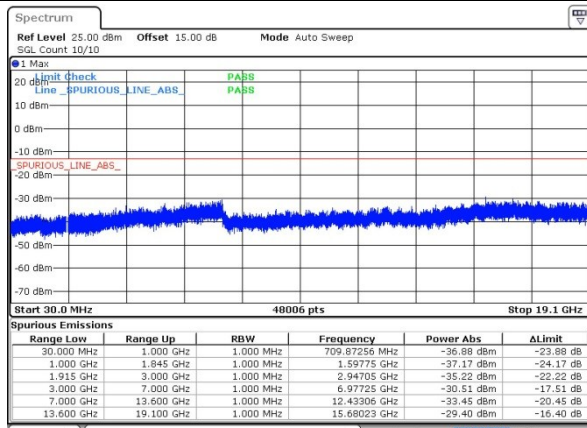


Date: 3 MAY 2018 16:14:57

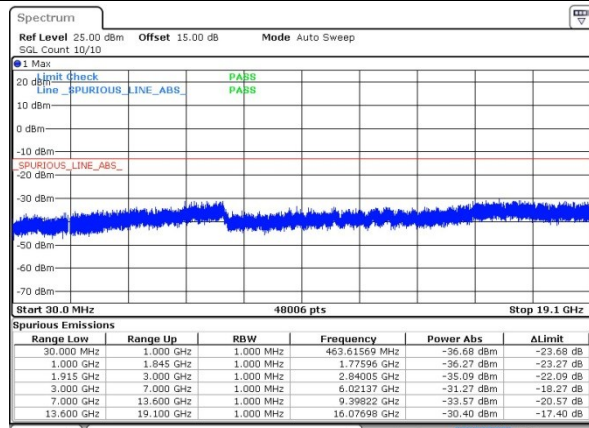


Date: 3 MAY 2018 16:44:49

## Highest Channel



Date: 3 MAY 2018 16:16:20

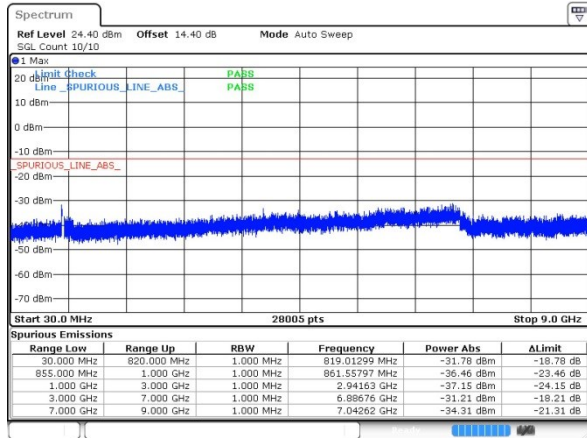


Date: 3 MAY 2018 16:46:10



## WCDMA Band V (RMC 12.2Kbps)

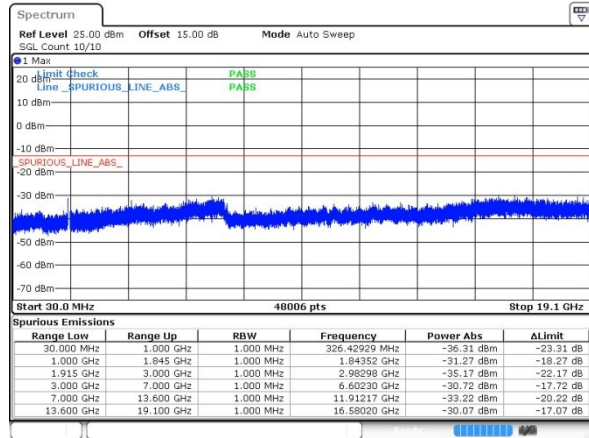
## Lowest Channel



Date: 3 MAY 2018 15:04:12

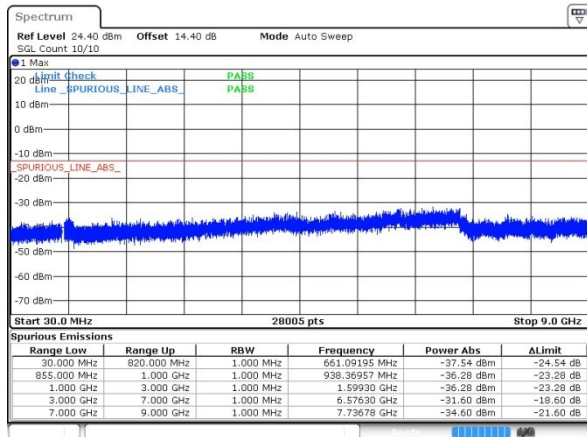
## WCDMA Band II (RMC 12.2Kbps)

## Lowest Channel



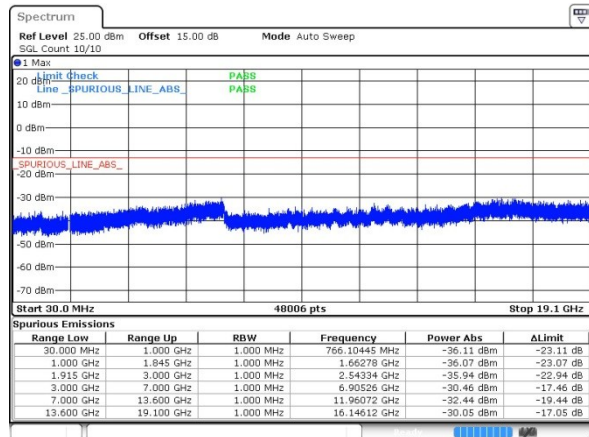
Date: 3 MAY 2018 15:30:31

## Middle Channel



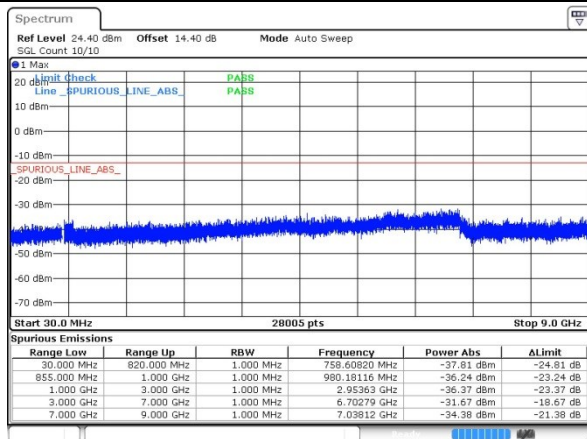
Date: 3 MAY 2018 15:06:05

## Middle Channel



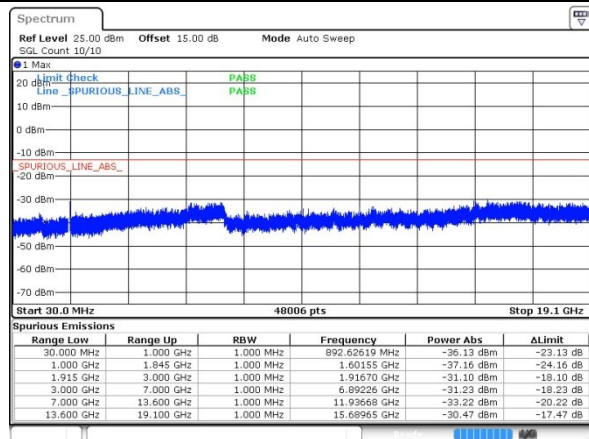
Date: 3 MAY 2018 15:31:54

## Highest Channel



Date: 3 MAY 2018 15:07:27

## Highest Channel

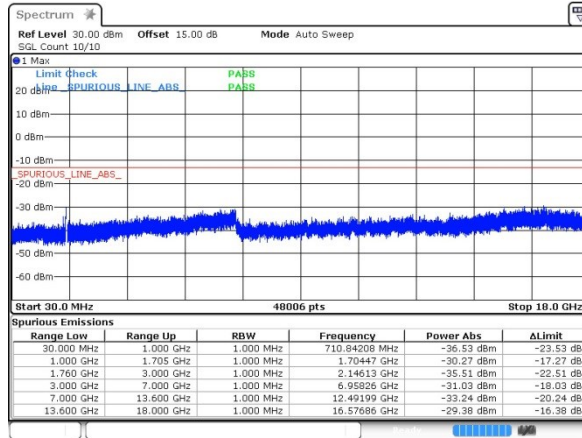


Date: 3 MAY 2018 15:33:19

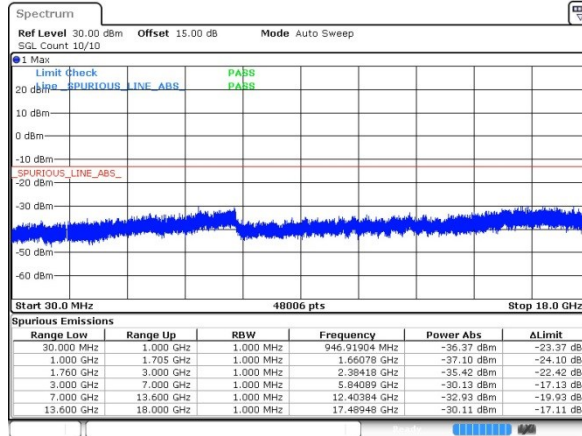


## WCDMA Band IV (RMC 12.2Kbps)

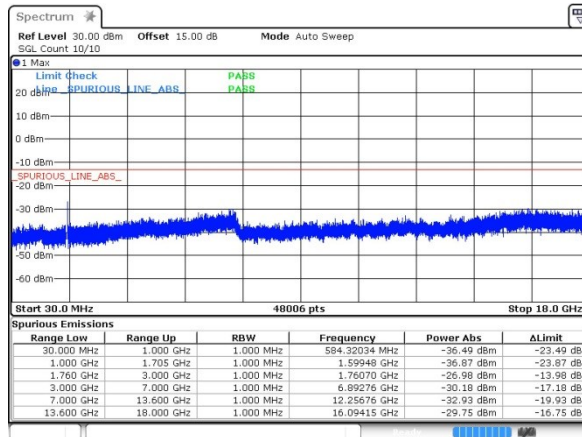
## Lowest Channel



## Middle Channel



## Highest Channel



**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    | 0.0502          | 0.0167                   | PASS            |
| 40               | Normal Voltage    | 0.0024          | 0.0072                   |                 |
| 30               | Normal Voltage    | 0.0407          | 0.0323                   |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000          | 0.0000                   |                 |
| 10               | Normal Voltage    | 0.0442          | 0.0167                   |                 |
| 0                | Normal Voltage    | 0.0132          | 0.0407                   |                 |
| -10              | Normal Voltage    | 0.0143          | 0.0275                   |                 |
| -20              | Normal Voltage    | 0.0383          | 0.0108                   |                 |
| -30              | Normal Voltage    | 0.0060          | 0.0287                   |                 |
| 20               | Maximum Voltage   | 0.0418          | 0.0203                   |                 |
| 20               | Normal Voltage    | 0.0347          | 0.0084                   |                 |
| 20               | Battery End Point | 0.0120          | 0.0179                   |                 |

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.1V



| 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    | 0.0059           | 0.0037                    | PASS             |
| 40               | Normal Voltage    | 0.0154           | 0.0165                    |                  |
| 30               | Normal Voltage    | 0.0191           | 0.0149                    |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000           | 0.0000                    |                  |
| 10               | Normal Voltage    | 0.0165           | 0.0016                    |                  |
| 0                | Normal Voltage    | 0.0005           | 0.0170                    |                  |
| -10              | Normal Voltage    | 0.0032           | 0.0191                    |                  |
| -20              | Normal Voltage    | 0.0170           | 0.0005                    |                  |
| -30              | Normal Voltage    | 0.0138           | 0.0191                    |                  |
| 20               | Maximum Voltage   | 0.0027           | 0.0117                    |                  |
| 20               | Normal Voltage    | 0.0149           | 0.0048                    |                  |
| 20               | Battery End Point | 0.0186           | 0.0027                    |                  |

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.1V
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 12.2Kbps) | Limit<br>2.5ppm |
|------------------|-------------------|--------------------------------|-----------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)                | Result          |
| 50               | Normal Voltage    | 0.0024                         | PASS            |
| 40               | Normal Voltage    | 0.0155                         |                 |
| 30               | Normal Voltage    | 0.0132                         |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000                         |                 |
| 10               | Normal Voltage    | 0.0024                         |                 |
| 0                | Normal Voltage    | 0.0036                         |                 |
| -10              | Normal Voltage    | 0.0048                         |                 |
| -20              | Normal Voltage    | 0.0048                         |                 |
| -30              | Normal Voltage    | 0.0108                         |                 |
| 20               | Maximum Voltage   | 0.0179                         |                 |
| 20               | Normal Voltage    | 0.0012                         |                 |
| 20               | Battery End Point | 0.0132                         |                 |

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.1V



| 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    | 0.0085                          | PASS             |
| 40               | Normal Voltage    | 0.0080                          |                  |
| 30               | Normal Voltage    | 0.0074                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0016                          |                  |
| 0                | Normal Voltage    | 0.0059                          |                  |
| -10              | Normal Voltage    | 0.0096                          |                  |
| -20              | Normal Voltage    | 0.0053                          |                  |
| -30              | Normal Voltage    | 0.0027                          |                  |
| 20               | Maximum Voltage   | 0.0005                          |                  |
| 20               | Normal Voltage    | 0.0000                          |                  |
| 20               | Battery End Point | 0.0090                          |                  |

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.1V



| 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    | 0.0110                          | PASS             |
| 40               | Normal Voltage    | 0.0104                          |                  |
| 30               | Normal Voltage    | 0.0098                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0012                          |                  |
| 0                | Normal Voltage    | 0.0081                          |                  |
| -10              | Normal Voltage    | 0.0006                          |                  |
| -20              | Normal Voltage    | 0.0063                          |                  |
| -30              | Normal Voltage    | 0.0035                          |                  |
| 20               | Maximum Voltage   | 0.0063                          |                  |
| 20               | Normal Voltage    | 0.0012                          |                  |
| 20               | Battery End Point | 0.0104                          |                  |

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.1V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



## Appendix B. Test Results of Conducted 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              | -49.09      | -13           | -36.09            | -51.00             | 1.14                 | 5.20                  | H                  |
|              | 2510              | -37.34      | -13           | -24.34            | -39.97             | 1.12                 | 5.90                  | H                  |
|              | 3345              | -62.17      | -13           | -49.17            | -65.38             | 1.34                 | 6.70                  | H                  |
|              | 4182              | -43.32      | -13           | -30.32            | -46.78             | 1.59                 | 7.20                  | H                  |
|              | 1672              | -47.95      | -13           | -34.95            | -49.86             | 1.14                 | 5.20                  | V                  |
|              | 2510              | -44.31      | -13           | -31.31            | -46.94             | 1.12                 | 5.90                  | V                  |
|              | 3345              | -62.69      | -13           | -49.69            | -65.90             | 1.34                 | 6.70                  | V                  |
|              | 4182              | -42.91      | -13           | -29.91            | -46.37             | 1.59                 | 7.20                  | 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              | -56.79      | -13           | -43.79            | -58.70             | 1.14                 | 5.20                  | H                  |
|                       | 2510              | -57.82      | -13           | -44.82            | -60.45             | 1.12                 | 5.90                  | H                  |
|                       | 3345              | -64.43      | -13           | -51.43            | -67.64             | 1.34                 | 6.70                  | H                  |
|                       | 1672              | -56.03      | -13           | -43.03            | -57.94             | 1.14                 | 5.20                  | V                  |
|                       | 2510              | -63.38      | -13           | -50.38            | -66.01             | 1.12                 | 5.90                  | V                  |
|                       | 3345              | -64.53      | -13           | -51.53            | -67.74             | 1.34                 | 6.70                  | 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                 | -52.41          | -13              | -39.41                  | -57.58                   | 1.83                       | 7.00                        | H                     |
|               | 5640                 | -59.35          | -13              | -46.35                  | -66.97                   | 2.18                       | 9.80                        | H                     |
|               | 7521                 | -53.10          | -13              | -40.10                  | -62.77                   | 2.53                       | 12.20                       | H                     |
|               | 3759                 | -53.48          | -13              | -40.48                  | -58.65                   | 1.83                       | 7.00                        | V                     |
|               | 5640                 | -59.61          | -13              | -46.61                  | -67.23                   | 2.18                       | 9.80                        | V                     |
|               | 7521                 | -52.69          | -13              | -39.69                  | -62.36                   | 2.53                       | 12.20                       | 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                 | -62.91          | -13              | -49.91                  | -68.08                   | 1.83                       | 7.00                        | H                     |
|                        | 5640                 | -59.26          | -13              | -46.26                  | -66.88                   | 2.18                       | 9.80                        | H                     |
|                        | 7521                 | -52.93          | -13              | -39.93                  | -62.60                   | 2.53                       | 12.20                       | H                     |
|                        | 3759                 | -60.03          | -13              | -47.03                  | -65.20                   | 1.83                       | 7.00                        | V                     |
|                        | 5640                 | -59.67          | -13              | -46.67                  | -67.29                   | 2.18                       | 9.80                        | V                     |
|                        | 7521                 | -53.34          | -13              | -40.34                  | -63.01                   | 2.53                       | 12.20                       | V                     |

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

| WCDMA Band V(RMC 12.2Kbps) |                      |                |                  |                         |                          |                            |                             |                       |
|----------------------------|----------------------|----------------|------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                    | Frequency<br>( MHz ) | ERP<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                     | 1672                 | -66.48         | -13              | -53.48                  | -68.39                   | 1.14                       | 5.20                        | H                     |
|                            | 2510                 | -64.23         | -13              | -51.23                  | -66.86                   | 1.12                       | 5.90                        | H                     |
|                            | 3345                 | -64.32         | -13              | -51.32                  | -67.53                   | 1.34                       | 6.70                        | H                     |
|                            | 1672                 | -66.16         | -13              | -53.16                  | -68.07                   | 1.14                       | 5.20                        | V                     |
|                            | 2510                 | -64.88         | -13              | -51.88                  | -67.51                   | 1.12                       | 5.90                        | V                     |
|                            | 3345                 | -64.70         | -13              | -51.70                  | -67.91                   | 1.34                       | 6.70                        | 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 ) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                      | 3759                 | -62.76          | -13              | -49.76                  | -67.93                   | 1.83                       | 7.00                        | H                     |
|                             | 5640                 | -59.32          | -13              | -46.32                  | -66.94                   | 2.18                       | 9.80                        | H                     |
|                             | 7521                 | -52.91          | -13              | -39.91                  | -62.58                   | 2.53                       | 12.20                       | H                     |
|                             | 3759                 | -62.97          | -13              | -49.97                  | -68.14                   | 1.83                       | 7.00                        | V                     |
|                             | 5640                 | -59.44          | -13              | -46.44                  | -67.06                   | 2.18                       | 9.80                        | V                     |
|                             | 7521                 | -53.26          | -13              | -40.26                  | -62.93                   | 2.53                       | 12.20                       | 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 ) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                      | 3465                 | -64.29          | -13              | -51.29                  | -69.43                   | 1.81                       | 6.95                        | H                     |
|                             | 5196                 | -59.63          | -13              | -46.63                  | -66.70                   | 2.23                       | 9.30                        | H                     |
|                             | 6930                 | -55.99          | -13              | -42.99                  | -64.27                   | 2.60                       | 10.88                       | H                     |
|                             | 3465                 | -64.77          | -13              | -51.77                  | -69.91                   | 1.81                       | 6.95                        | V                     |
|                             | 5196                 | -60.28          | -13              | -47.28                  | -67.35                   | 2.23                       | 9.30                        | V                     |
|                             | 6930                 | -56.77          | -13              | -43.77                  | -65.05                   | 2.6                        | 10.88                       | V                     |

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