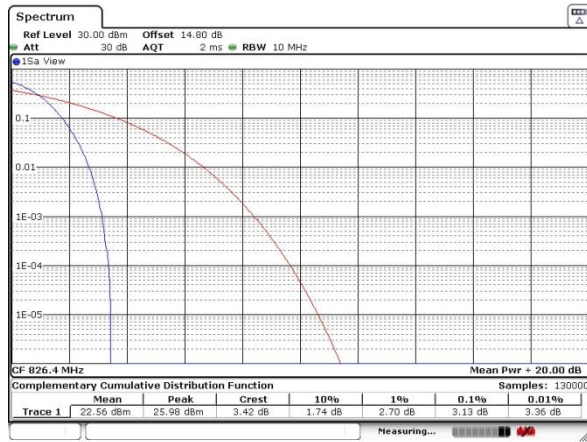




## WCDMA Band V (RMC 12.2Kbps)

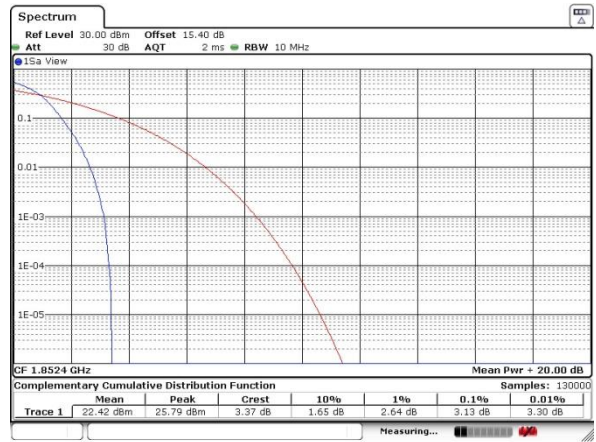
## Lowest Channel



Date: 22.APR.2021 04:48:59

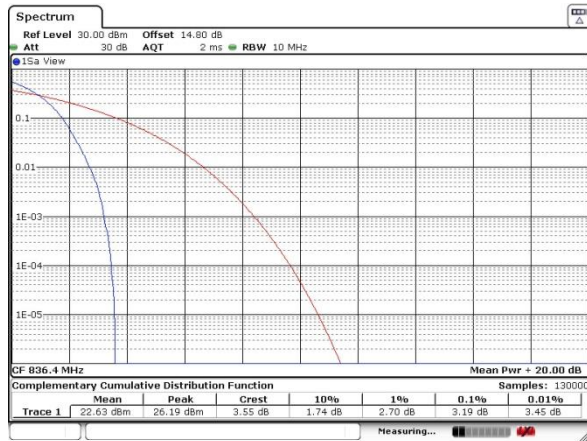
## WCDMA Band II (RMC 12.2Kbps)

## Lowest Channel



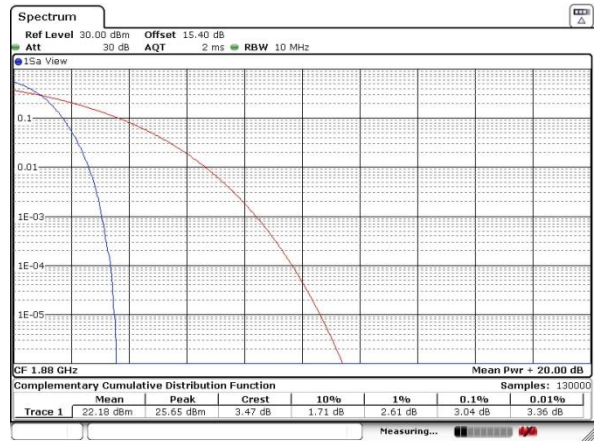
Date: 22.APR.2021 05:10:25

## Middle Channel



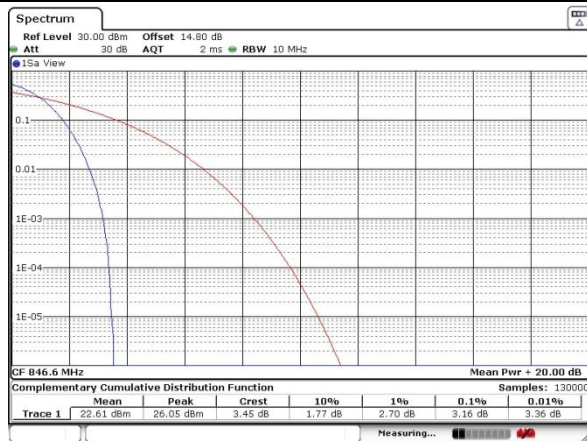
Date: 22.APR.2021 04:49:09

## Middle Channel



Date: 22.APR.2021 05:10:16

## Highest Channel

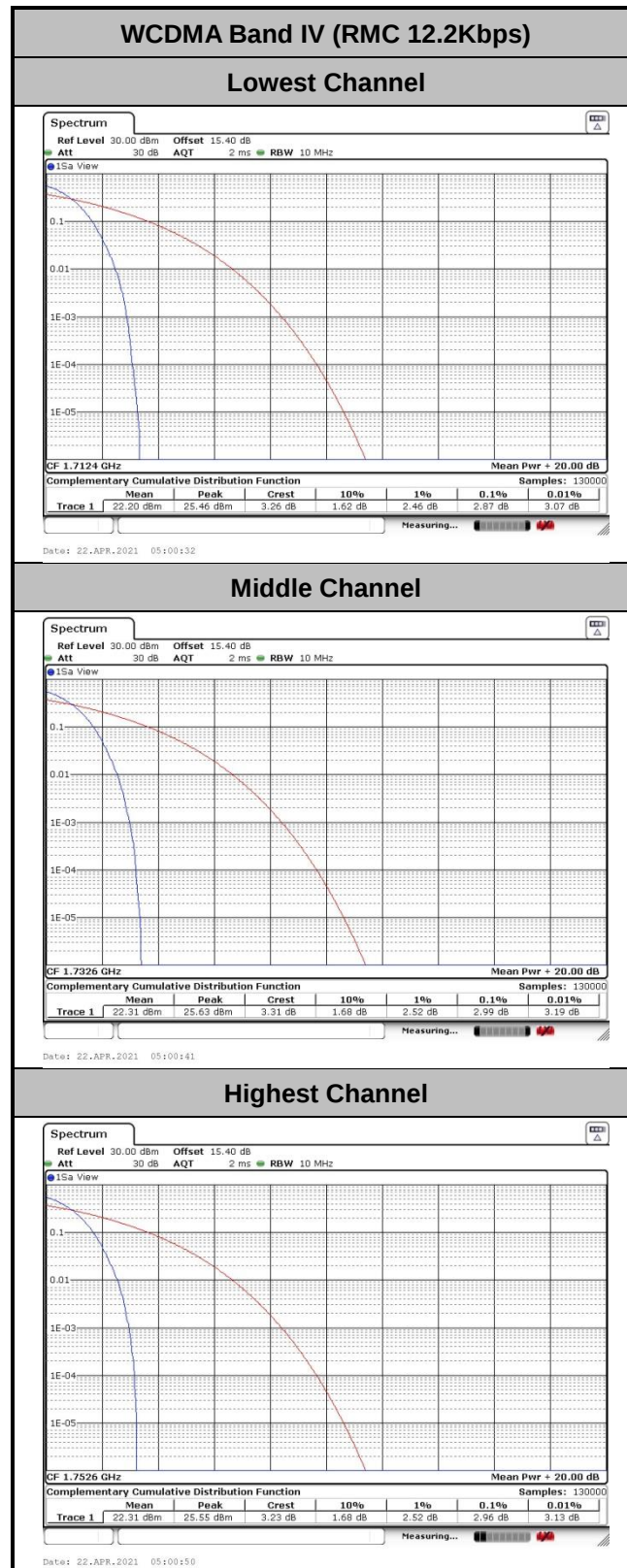


Date: 22.APR.2021 04:49:20

## Highest Channel



Date: 22.APR.2021 05:10:05





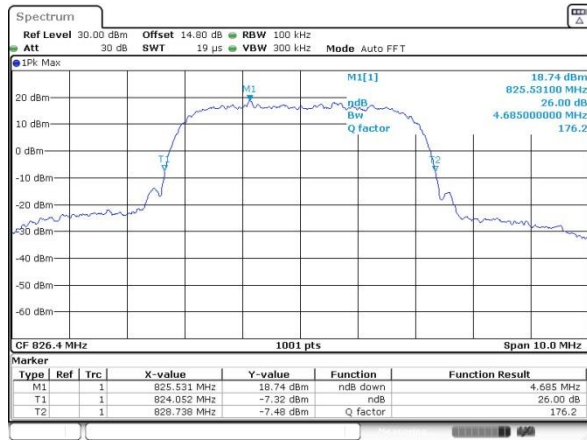
**26dB Bandwidth**

| Mode       | WCDMA Band V | WCDMA Band II | WCDMA Band IV |
|------------|--------------|---------------|---------------|
| Mod.       | RMC 12.2Kbps | RMC 12.2Kbps  | RMC 12.2Kbps  |
| Lowest CH  | 4.69         | 4.69          | 4.70          |
| Middle CH  | 4.70         | 4.70          | 4.70          |
| Highest CH | 4.70         | 4.69          | 4.71          |



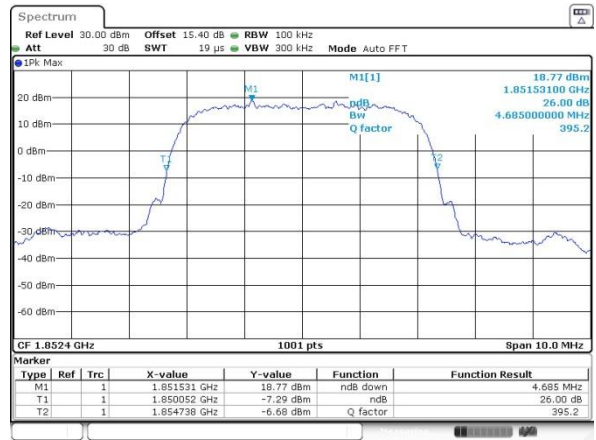
## WCDMA Band V (RMC 12.2Kbps)

## Lowest Channel

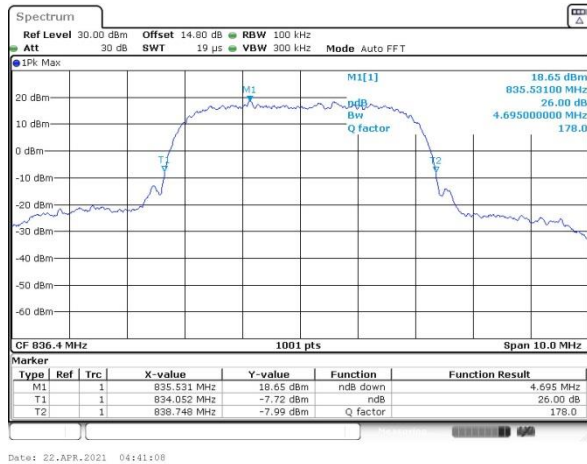


## WCDMA Band II (RMC 12.2Kbps)

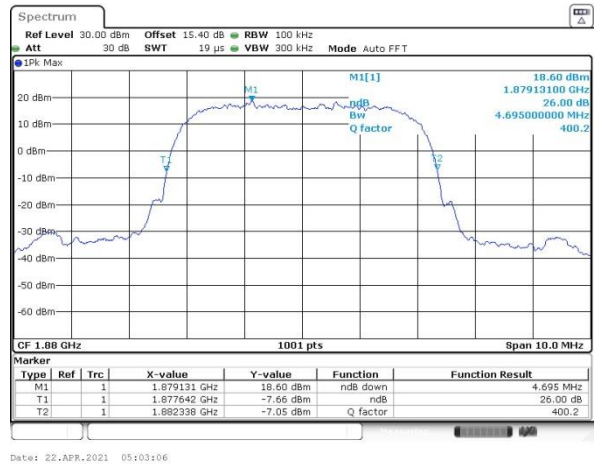
## Lowest Channel



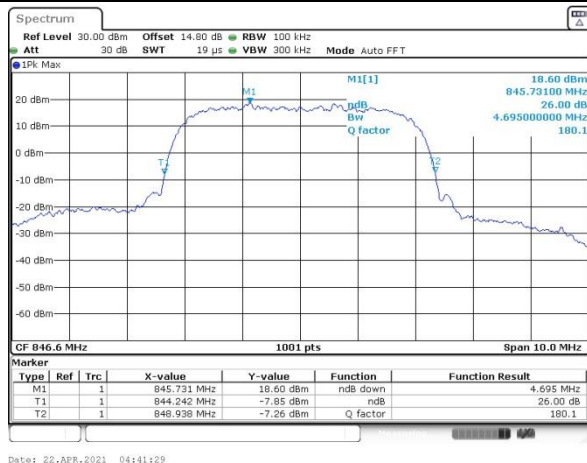
## Middle Channel



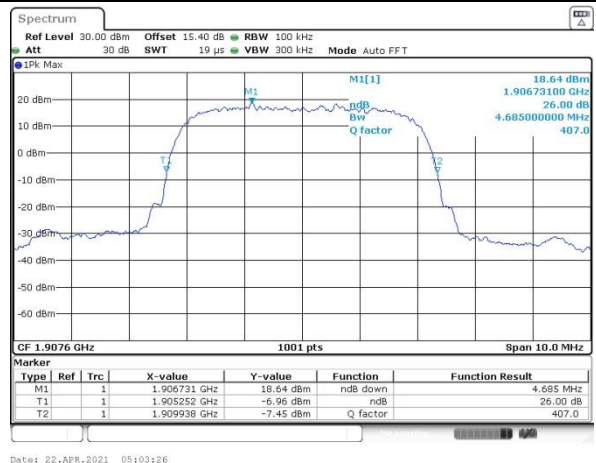
## Middle Channel



## Highest Channel



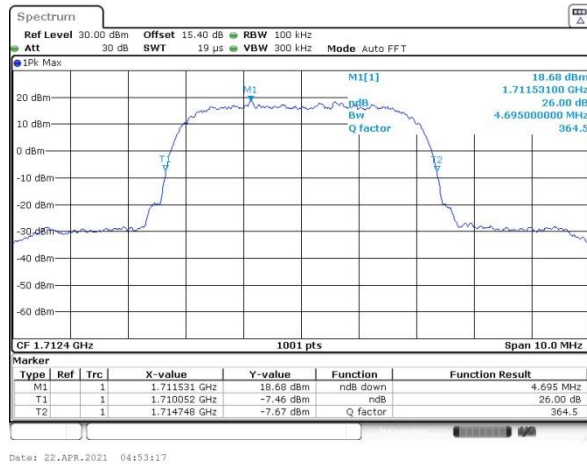
## Highest Channel



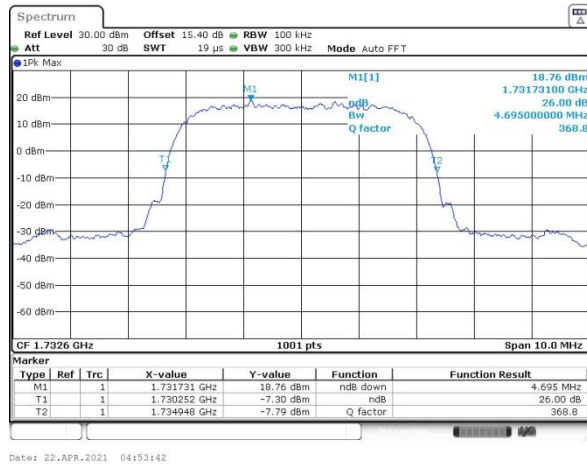


## WCDMA Band IV (RMC 12.2Kbps)

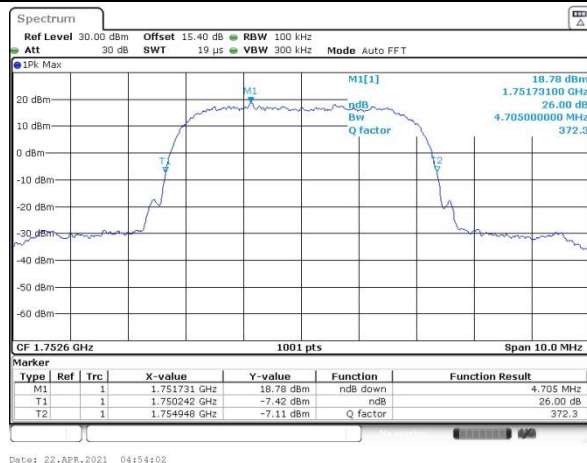
## Lowest Channel



## Middle Channel



## Highest Channel





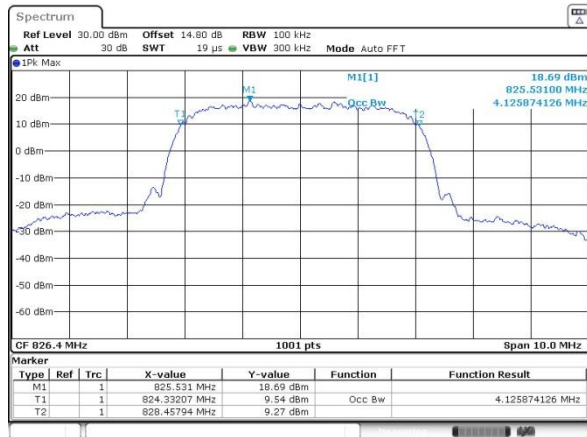
## Occupied Bandwidth

| Mode       | WCDMA Band V | WCDMA Band II | WCDMA Band IV |
|------------|--------------|---------------|---------------|
| Mod.       | RMC 12.2Kbps | RMC 12.2Kbps  | RMC 12.2Kbps  |
| Lowest CH  | 4.13         | 4.15          | 4.14          |
| Middle CH  | 4.14         | 4.14          | 4.14          |
| Highest CH | 4.14         | 4.14          | 4.15          |



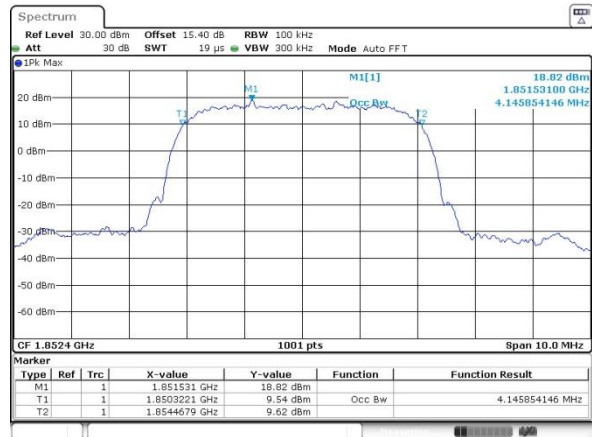
## WCDMA Band V (RMC 12.2Kbps)

## Lowest Channel

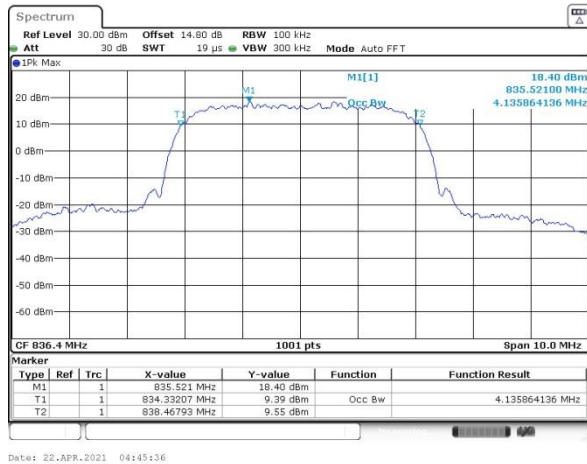


## WCDMA Band II (RMC 12.2Kbps)

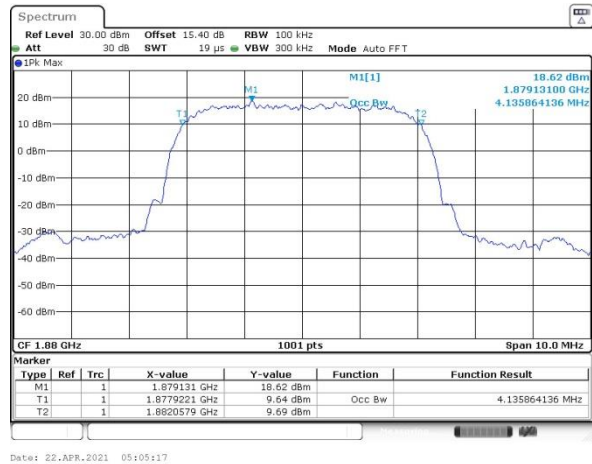
## Lowest Channel



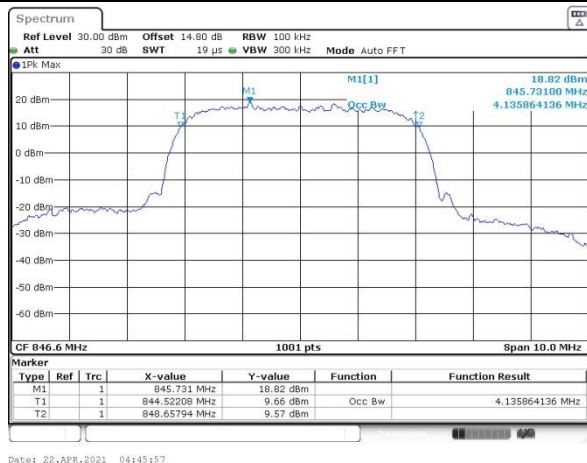
## Middle Channel



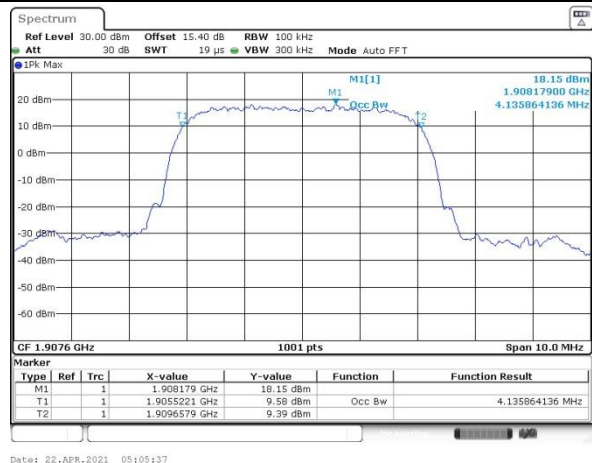
## Middle Channel



## Highest Channel



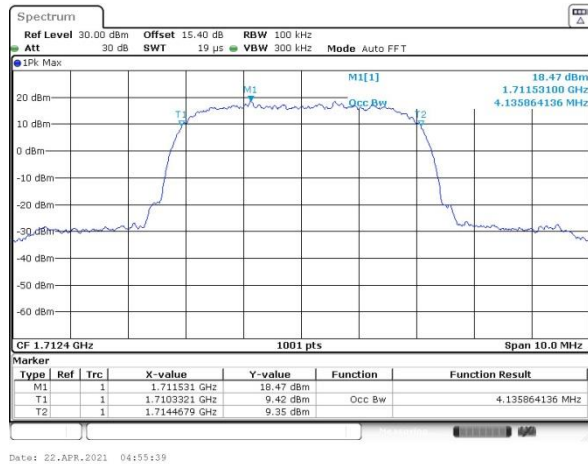
## Highest Channel



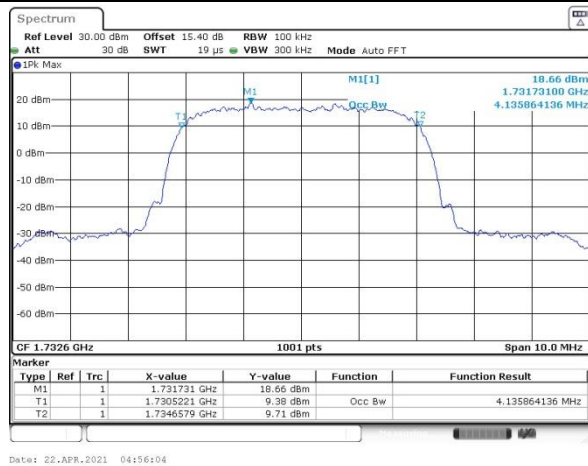


## WCDMA Band IV (RMC 12.2Kbps)

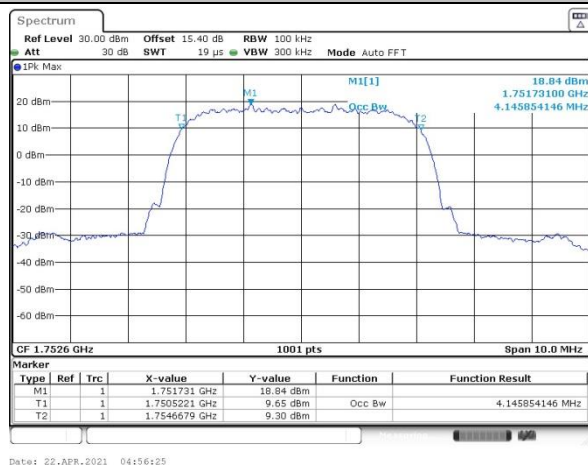
## Lowest Channel

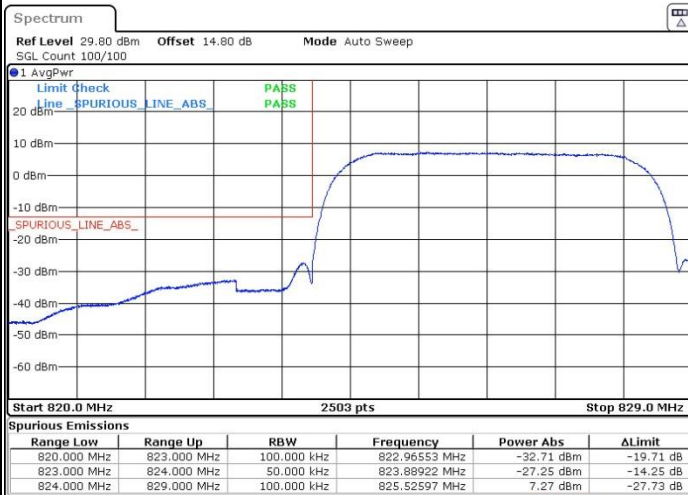


## Middle Channel



## Highest Channel

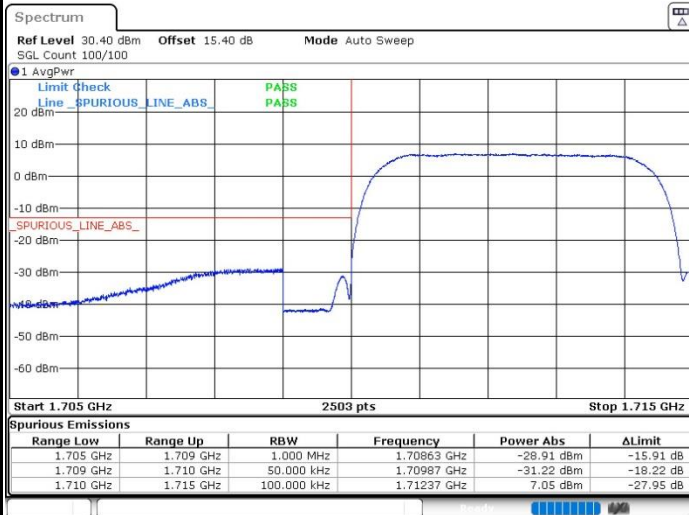


**Conducted Band Edge****WCDMA Band V (RMC 12.2Kbps)****Lowest Band Edge****Highest Band Edge****WCDMA Band II (RMC 12.2Kbps)****Lowest Band Edge****Highest Band Edge**



## WCDMA Band IV (RMC 12.2Kbps)

## Lowest Band Edge



## Highest Band Edge

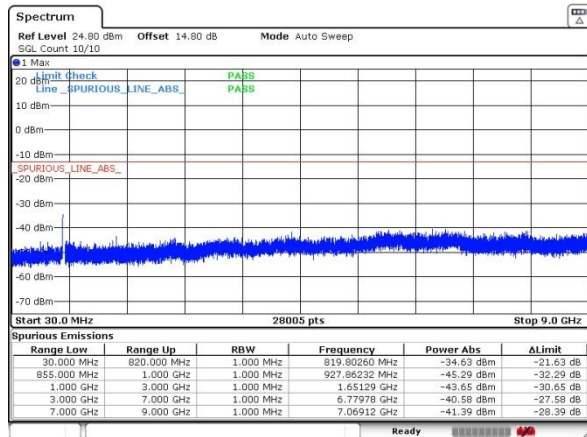




# Conducted Spurious Emission

## WCDMA Band V (RMC 12.2Kbps)

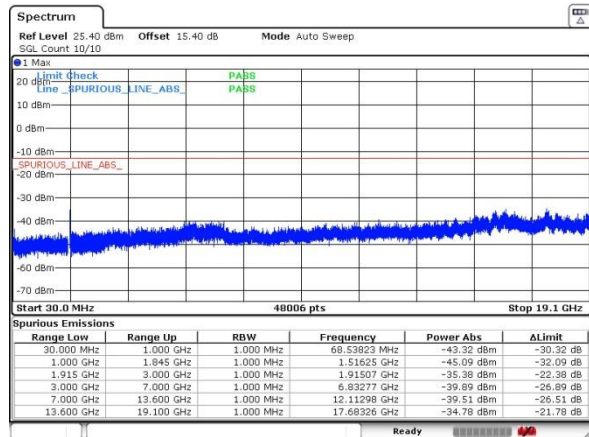
### Lowest Channel



Date: 22.APR.2021 04:48:01

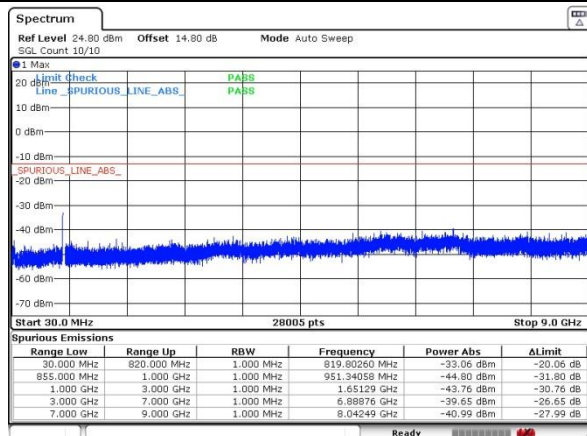
## WCDMA Band II (RMC 12.2Kbps)

### Lowest Channel



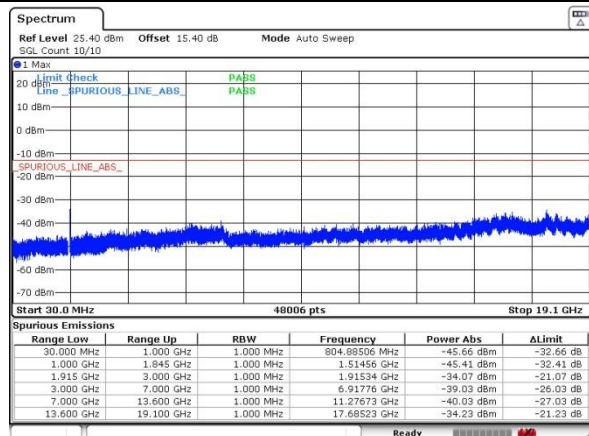
Date: 22.APR.2021 05:07:19

### Middle Channel



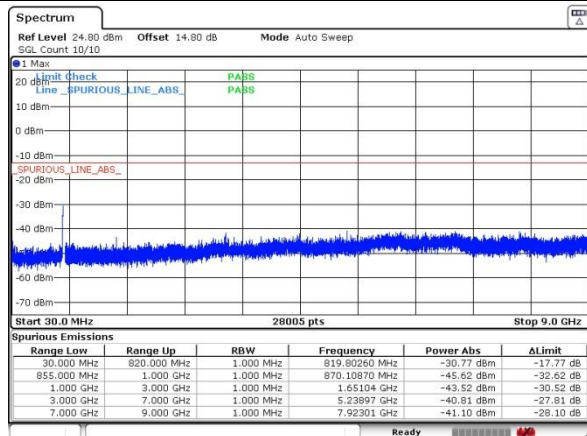
Date: 22.APR.2021 04:48:14

### Middle Channel



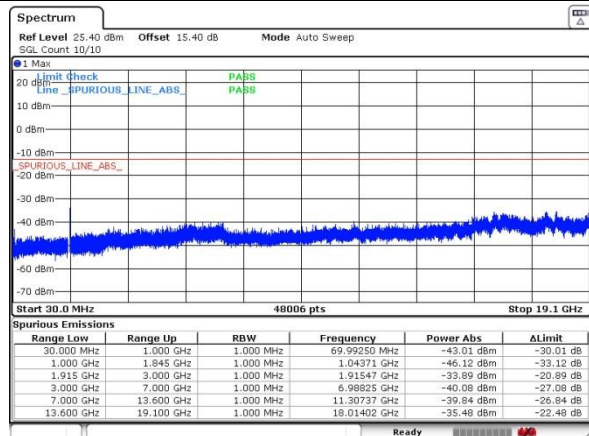
Date: 22.APR.2021 05:07:32

### Highest Channel



Date: 22.APR.2021 04:48:24

### Highest Channel

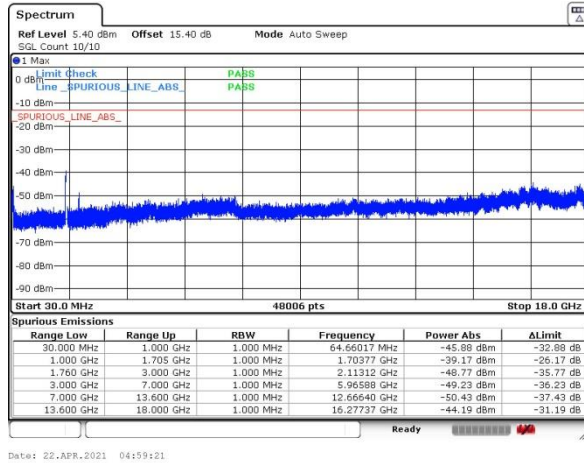


Date: 22.APR.2021 05:07:46

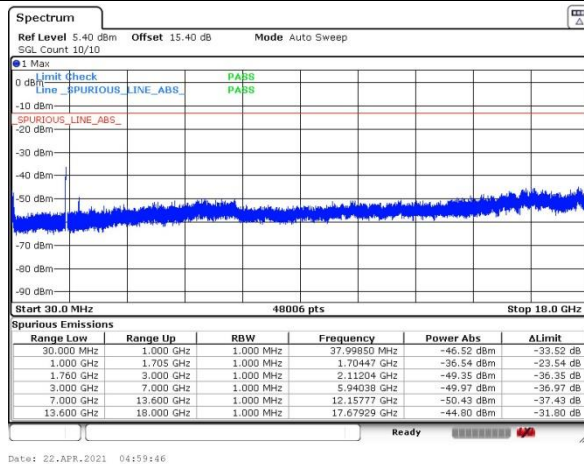


### WCDMA Band IV (RMC 12.2Kbps)

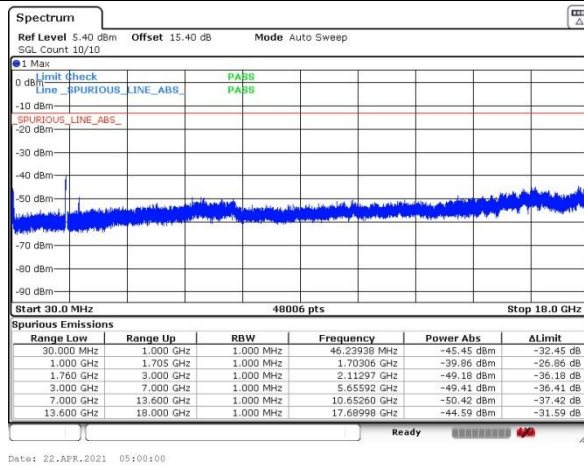
#### Lowest Channel



#### Middle Channel



#### Highest Channel



**Frequency Stability**

| Test Conditions  | Middle Channel    | WCDMA Band V<br>(RMC 12.2Kbps) | Limit<br>2.5ppm |
|------------------|-------------------|--------------------------------|-----------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)                | Result          |
| 50               | Normal Voltage    | 0.0072                         | PASS            |
| 40               | Normal Voltage    | 0.0216                         |                 |
| 30               | Normal Voltage    | 0.0020                         |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000                         |                 |
| 10               | Normal Voltage    | 0.0135                         |                 |
| 0                | Normal Voltage    | 0.0169                         |                 |
| -10              | Normal Voltage    | 0.0021                         |                 |
| -20              | Normal Voltage    | 0.0211                         |                 |
| -30              | Normal Voltage    | 0.0033                         |                 |
| 20               | Maximum Voltage   | 0.0008                         |                 |
| 20               | Normal Voltage    | 0.0111                         |                 |
| 20               | Battery End Point | 0.0065                         |                 |

| 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    | 0.0023                          | PASS             |
| 40               | Normal Voltage    | 0.0111                          |                  |
| 30               | Normal Voltage    | 0.0126                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0136                          |                  |
| 0                | Normal Voltage    | 0.0051                          |                  |
| -10              | Normal Voltage    | 0.0122                          |                  |
| -20              | Normal Voltage    | 0.0127                          |                  |
| -30              | Normal Voltage    | 0.0016                          |                  |
| 20               | Maximum Voltage   | 0.0033                          |                  |
| 20               | Normal Voltage    | 0.0056                          |                  |
| 20               | Battery End Point | 0.0021                          |                  |



| 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    | 0.0026                          | PASS             |
| 40               | Normal Voltage    | 0.0011                          |                  |
| 30               | Normal Voltage    | 0.0133                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0125                          |                  |
| 0                | Normal Voltage    | 0.0136                          |                  |
| -10              | Normal Voltage    | 0.0002                          |                  |
| -20              | Normal Voltage    | 0.0113                          |                  |
| -30              | Normal Voltage    | 0.0036                          |                  |
| 20               | Maximum Voltage   | 0.0019                          |                  |
| 20               | Normal Voltage    | 0.0128                          |                  |
| 20               | Battery End Point | 0.0055                          |                  |

**Note:**

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V
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              | -55.68      | -13           | -42.68            | -62.65             | 1.58                 | 10.70                 | H                  |
|              | 2510              | -56.62      | -13           | -43.62            | -64.87             | 2.10                 | 12.50                 | H                  |
|              | 3348              | -59.76      | -13           | -46.76            | -68.65             | 2.86                 | 13.90                 | H                  |
|              | 1672              | -52.86      | -13           | -39.86            | -59.83             | 1.58                 | 10.70                 | V                  |
|              | 2510              | -53.68      | -13           | -40.68            | -61.93             | 2.10                 | 12.50                 | V                  |
|              | 3348              | -59.99      | -13           | -46.99            | -68.88             | 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              | -59.02      | -13           | -46.02            | -65.99             | 1.58                 | 10.70                 | H                  |
|                       | 2510              | -42.97      | -13           | -29.97            | -51.22             | 2.10                 | 12.50                 | H                  |
|                       | 3348              | -60.24      | -13           | -47.24            | -69.13             | 2.86                 | 13.90                 | H                  |
|                       | 1672              | -54.34      | -13           | -41.34            | -61.31             | 1.58                 | 10.70                 | V                  |
|                       | 2510              | -55.17      | -13           | -42.17            | -63.42             | 2.10                 | 12.50                 | V                  |
|                       | 3348              | -60.30      | -13           | -47.30            | -69.19             | 2.86                 | 13.90                 | 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              | -64.93      | -13           | -51.93            | -71.90             | 1.58                 | 10.70                 | H                  |
|                            | 2510              | -59.96      | -13           | -46.96            | -68.21             | 2.10                 | 12.50                 | H                  |
|                            | 3348              | -59.67      | -13           | -46.67            | -68.56             | 2.86                 | 13.90                 | H                  |
|                            | 1672              | -63.80      | -13           | -50.80            | -70.77             | 1.58                 | 10.70                 | V                  |
|                            | 2510              | -59.13      | -13           | -46.13            | -67.38             | 2.10                 | 12.50                 | V                  |
|                            | 3348              | -59.44      | -13           | -46.44            | -68.33             | 2.86                 | 13.90                 | V                  |

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



| GSM1900 (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        | 3759              | -55.67      | -13           | -42.67            | -67.93             | 2.641                | 14.90                 | H                  |
|               | 5640              | -43.35      | -13           | -30.35            | -55.21             | 2.94                 | 14.80                 | H                  |
|               | 7524              | -52.52      | -13           | -39.52            | -62.29             | 3.39                 | 13.16                 | H                  |
|               | 3759              | -56.67      | -13           | -43.67            | -68.93             | 2.64                 | 14.90                 | V                  |
|               | 5640              | -45.39      | -13           | -32.39            | -57.25             | 2.94                 | 14.80                 | V                  |
|               | 7524              | -52.30      | -13           | -39.30            | -62.07             | 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 ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                 | 3759              | -56.47      | -13           | -43.47            | -68.73             | 2.641                | 14.90                 | H                  |
|                        | 5640              | -44.70      | -13           | -31.70            | -56.56             | 2.94                 | 14.80                 | H                  |
|                        | 7524              | -52.87      | -13           | -39.87            | -62.64             | 3.39                 | 13.16                 | H                  |
|                        | 3759              | -56.78      | -13           | -43.78            | -69.04             | 2.64                 | 14.90                 | V                  |
|                        | 5640              | -43.85      | -13           | -30.85            | -55.71             | 2.94                 | 14.80                 | V                  |
|                        | 7524              | -52.23      | -13           | -39.23            | -62.00             | 3.39                 | 13.16                 | V                  |

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

| WCDMA Band II(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                      | 3759              | -57.10      | -13           | -44.10            | -69.36             | 2.64                 | 14.90                 | H                  |
|                             | 5640              | -54.74      | -13           | -41.74            | -66.60             | 2.94                 | 14.80                 | H                  |
|                             | 7524              | -52.71      | -13           | -39.71            | -62.48             | 3.39                 | 13.16                 | H                  |
|                             | 3759              | -56.45      | -13           | -43.45            | -68.71             | 2.64                 | 14.90                 | V                  |
|                             | 5640              | -55.07      | -13           | -42.07            | -66.93             | 2.94                 | 14.80                 | V                  |
|                             | 7524              | -53.52      | -13           | -40.52            | -63.29             | 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<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                      | 3465                 | -57.90         | -13              | -44.90                  | -68.64                   | 2.604                      | 13.34                       | H                     |
|                             | 5199                 | -54.94         | -13              | -41.94                  | -65.45                   | 3.011                      | 13.52                       | H                     |
|                             | 6936                 | -54.56         | -13              | -41.56                  | -64.76                   | 3.271                      | 13.47                       | H                     |
|                             | 3465                 | -58.39         | -13              | -45.39                  | -69.13                   | 2.604                      | 13.34                       | V                     |
|                             | 5199                 | -55.18         | -13              | -42.18                  | -65.69                   | 3.011                      | 13.52                       | V                     |
|                             | 6936                 | -54.25         | -13              | -41.25                  | -64.45                   | 3.271                      | 13.47                       | V                     |

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