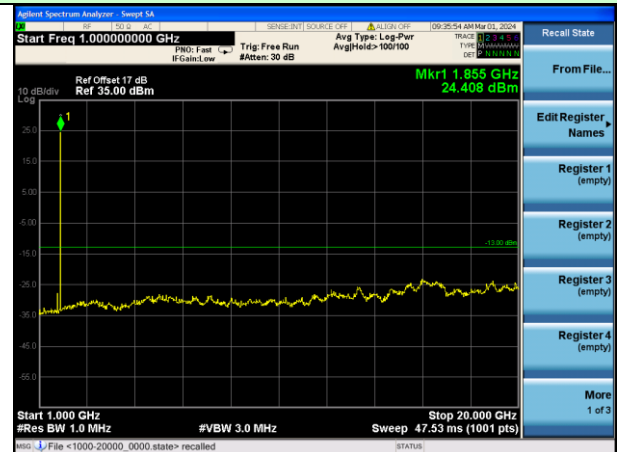
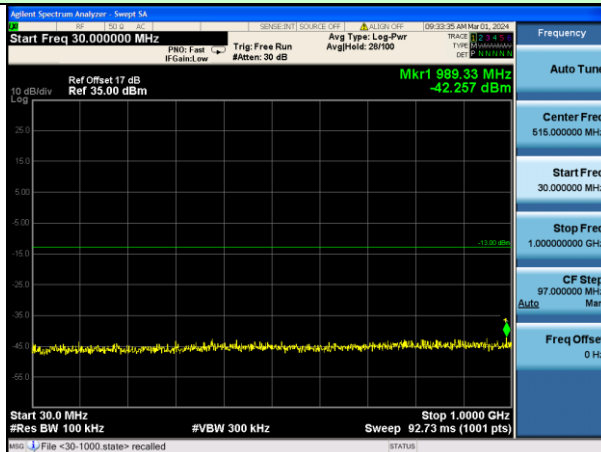
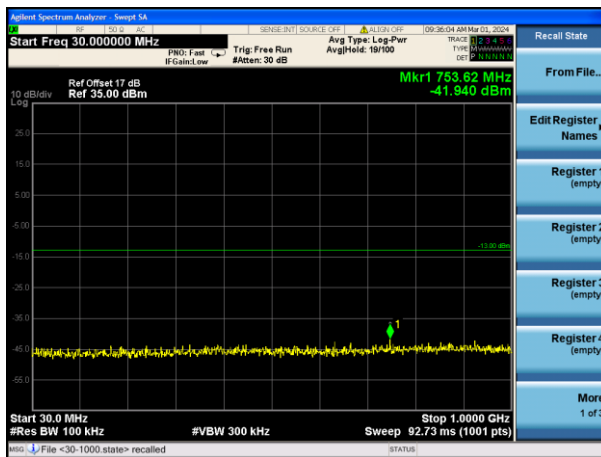


## Test Mode: Traffic mode

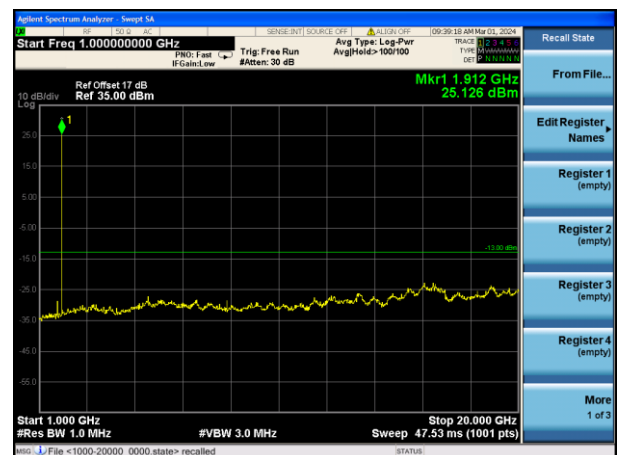
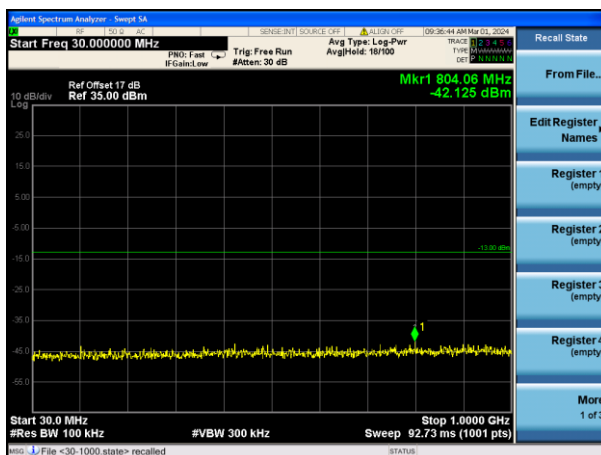
## PCS1900 (GPRS 1 link)



## Lowest channel



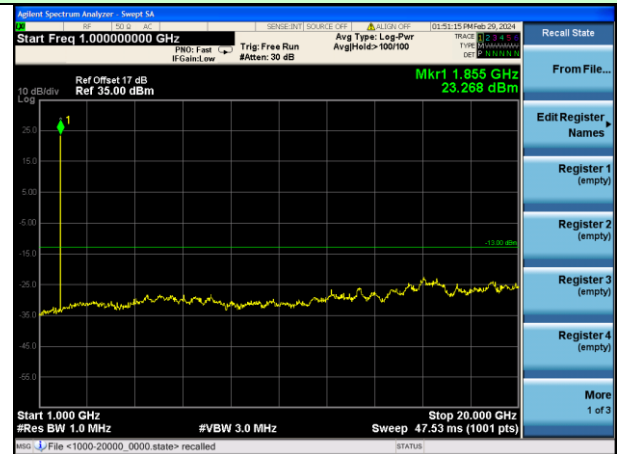
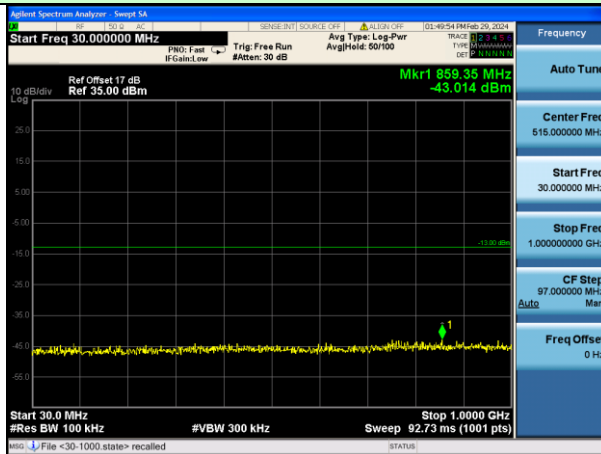
## Middle channel



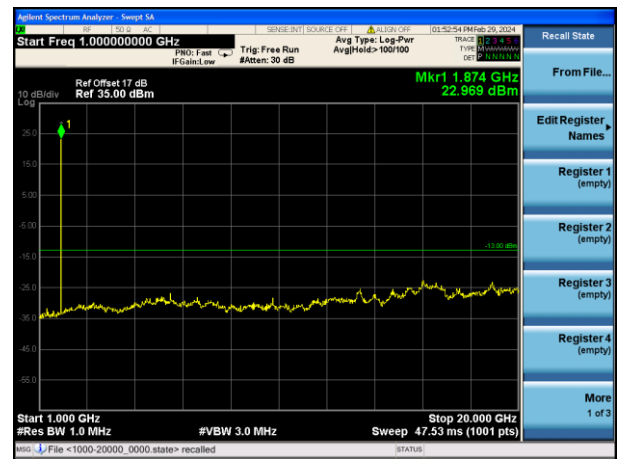
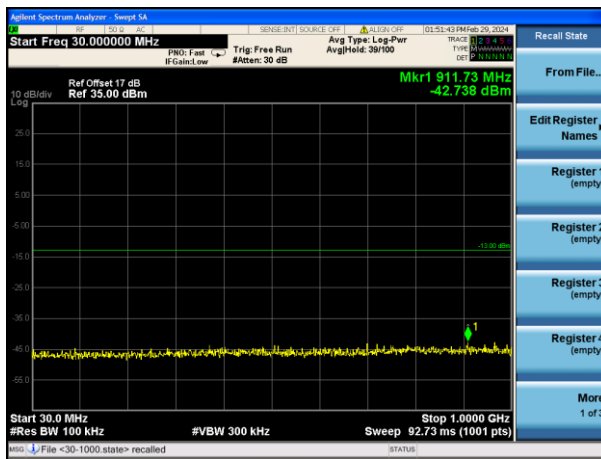
## Highest channel

## Test Mode: Traffic mode

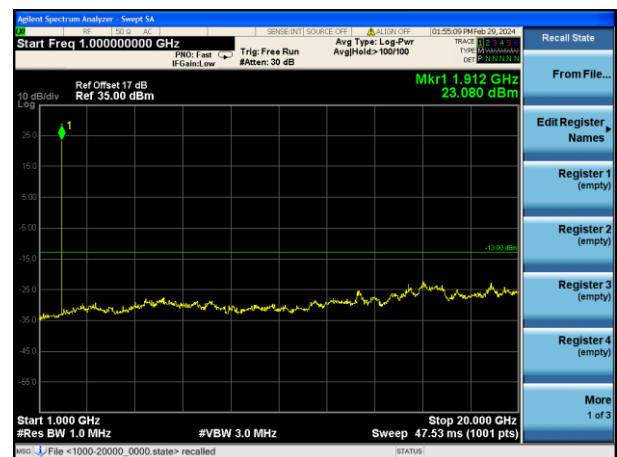
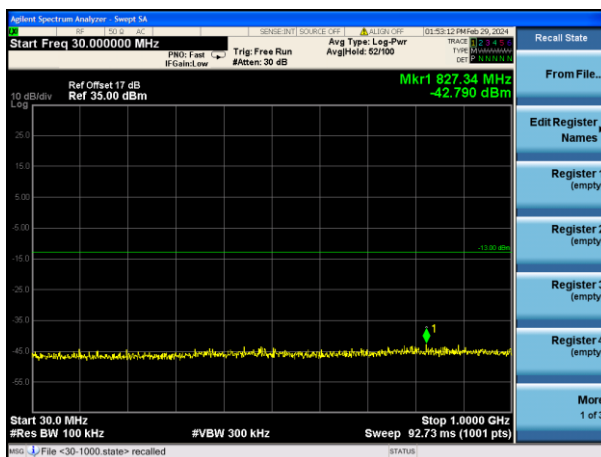
## PCS1900 (EGPRS 1 link)



## Lowest channel



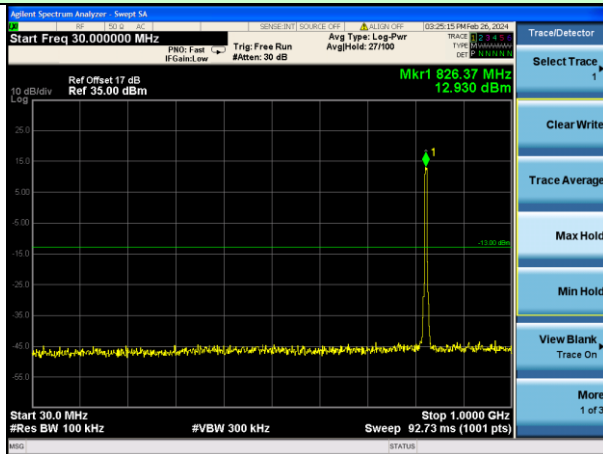
## Middle channel



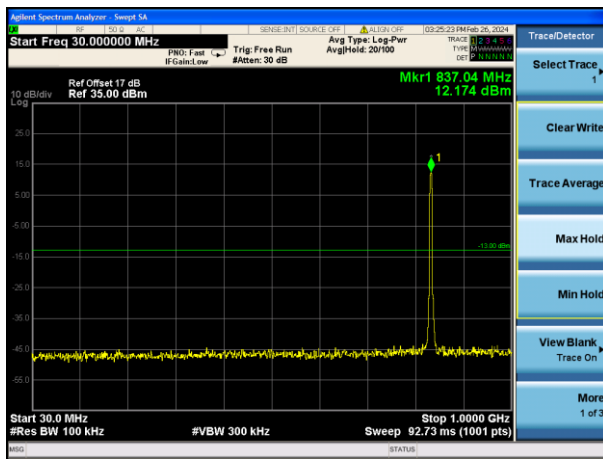
## Highest channel

## Test Mode: Traffic mode

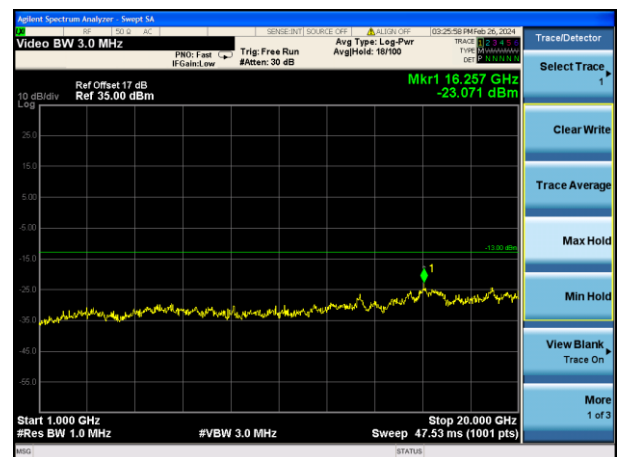
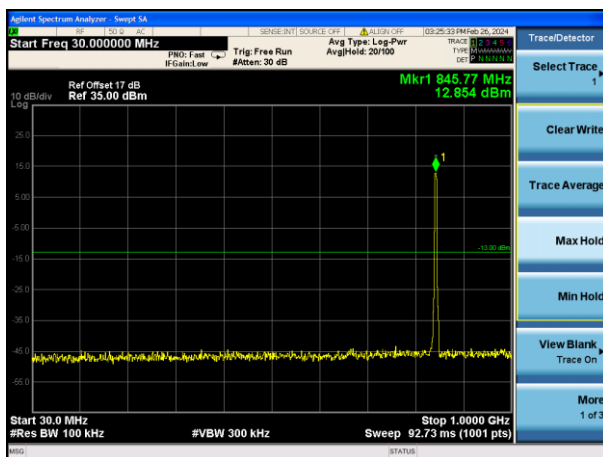
## WCDMA Band V (RMC 12.2Kbps link)



Lowest channel



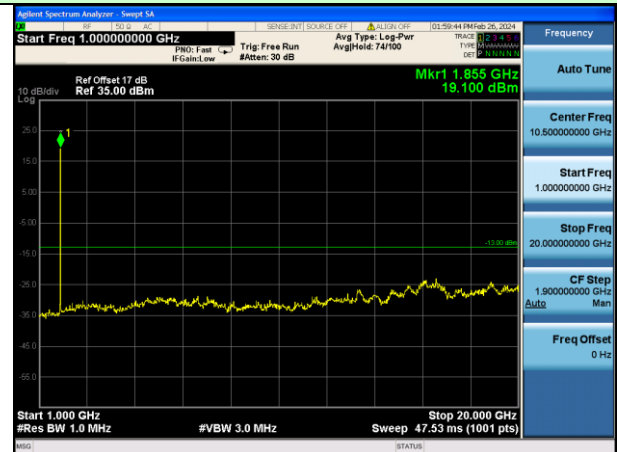
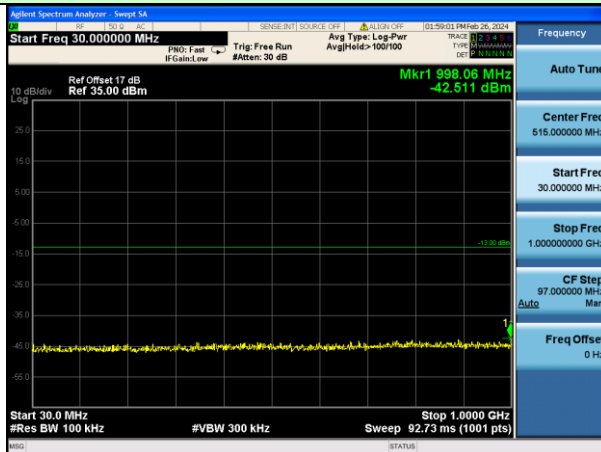
Middle channel



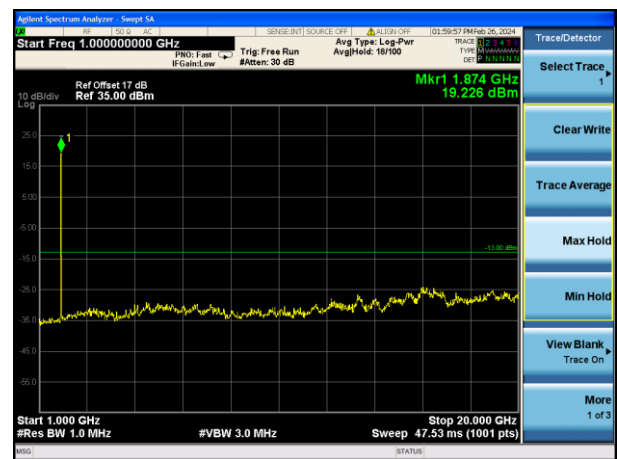
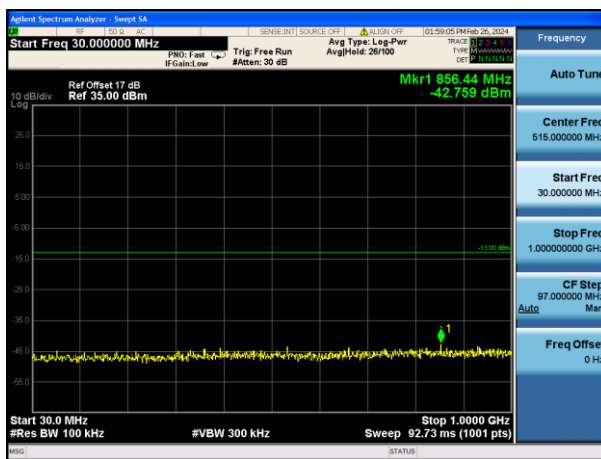
Highest channel

## Test Mode: Traffic mode

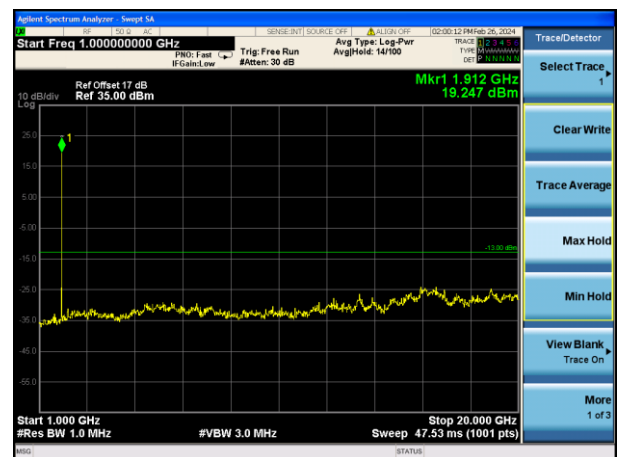
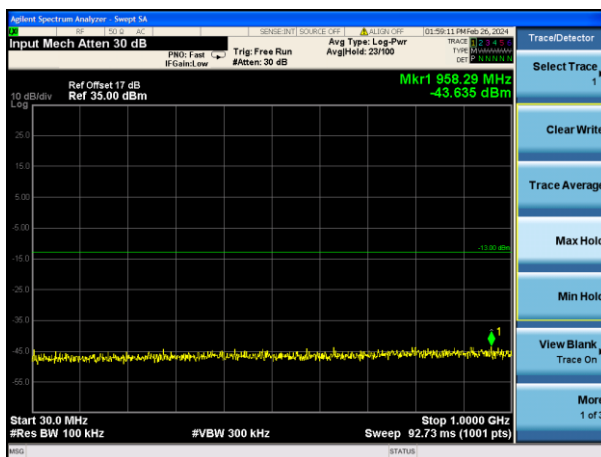
## WCDMA Band II (RMC 12.2Kbps link)



Lowest channel



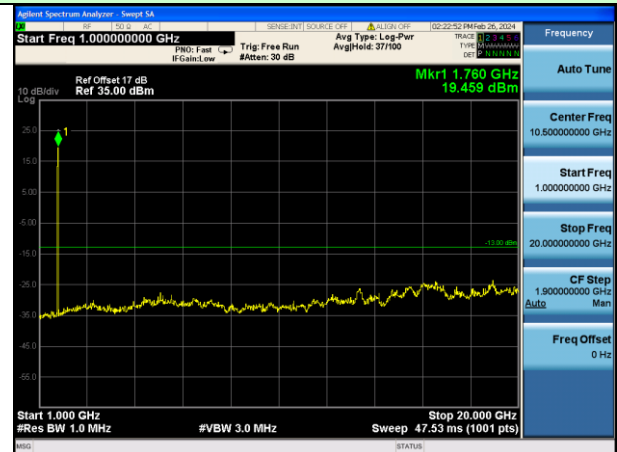
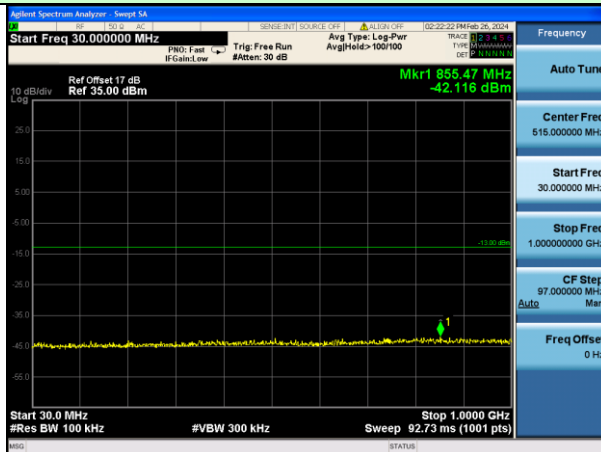
Middle channel



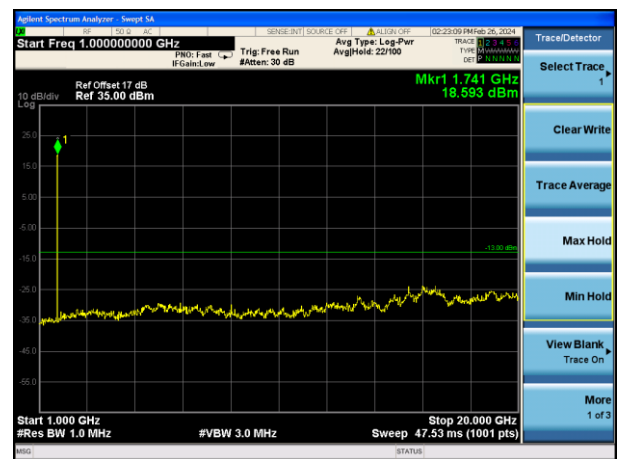
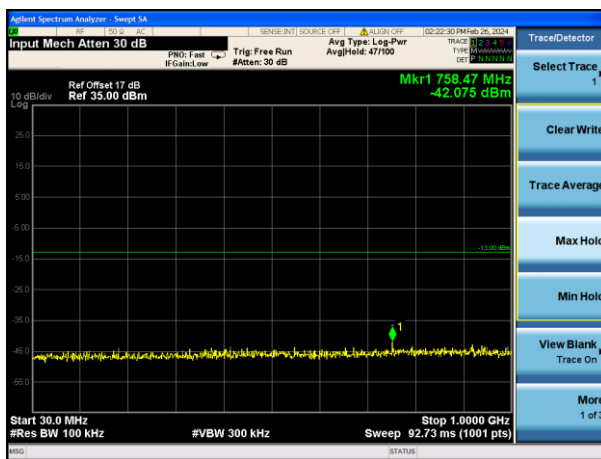
Highest channel

## Test Mode: Traffic mode

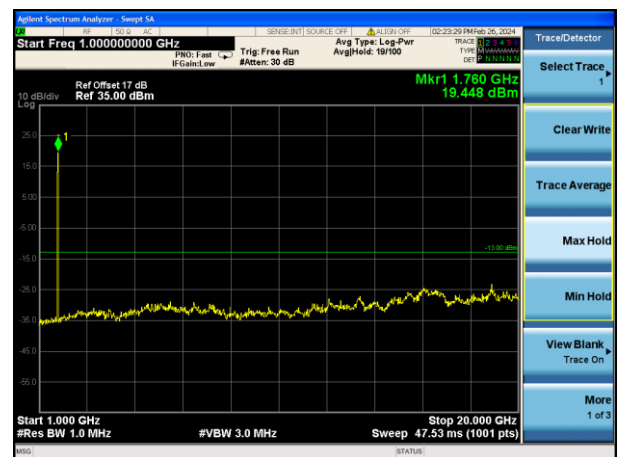
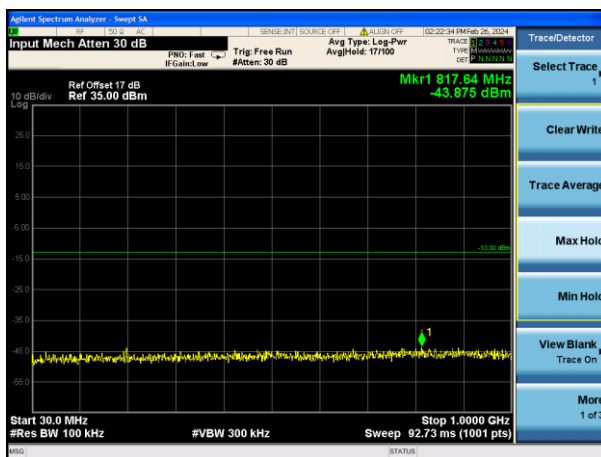
## WCDMA Band IV (RMC 12.2Kbps link)



## Lowest channel



## Middle channel

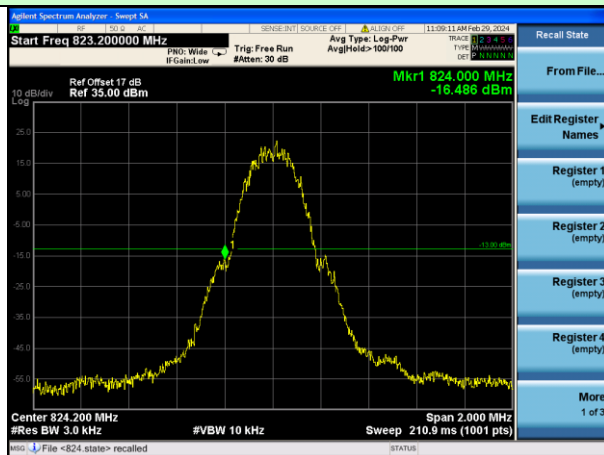


## Highest channel

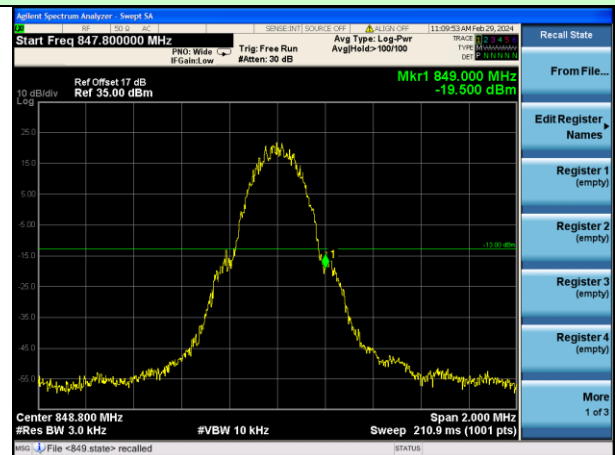
Band Edge:

Test Mode: Traffic mode

GSM850 (GSM link)



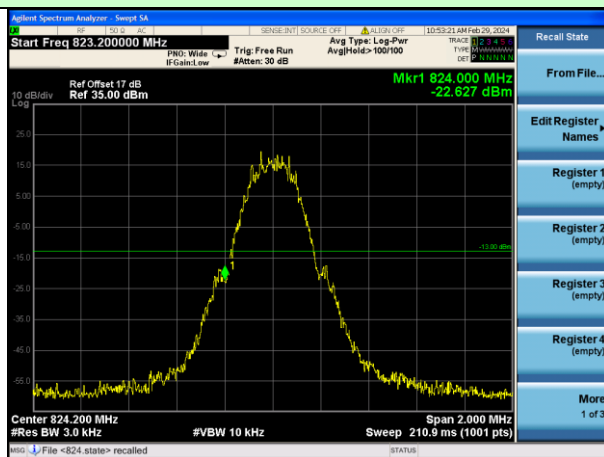
Lowest channel



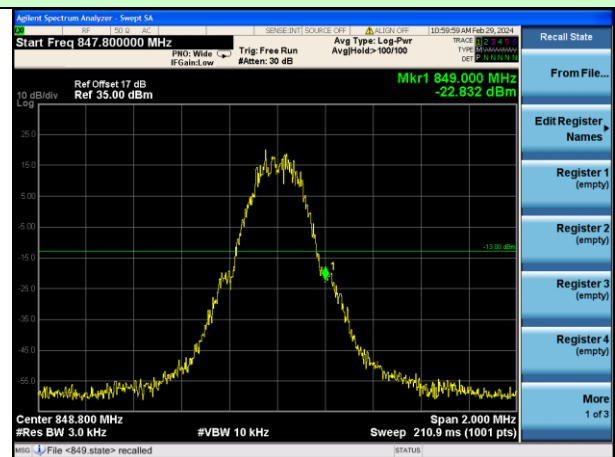
Highest channel

Test Mode: Traffic mode

GSM850 (GPRS 1 link)



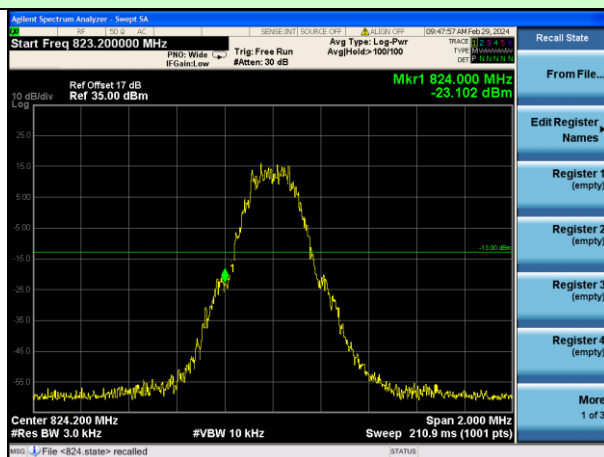
Lowest channel



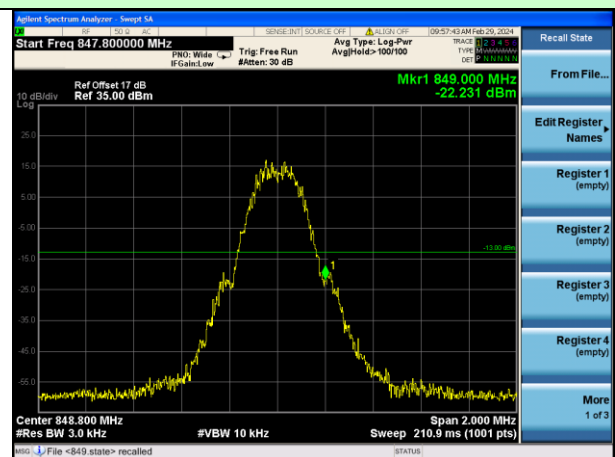
Highest channel

Test Mode: Traffic mode

GSM850 (EGPRS 1 link)



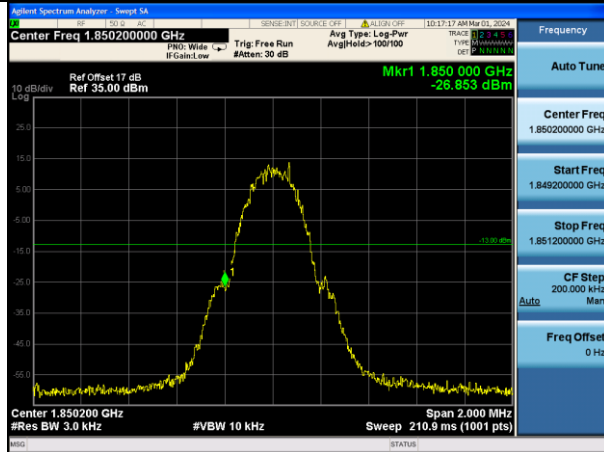
Lowest channel



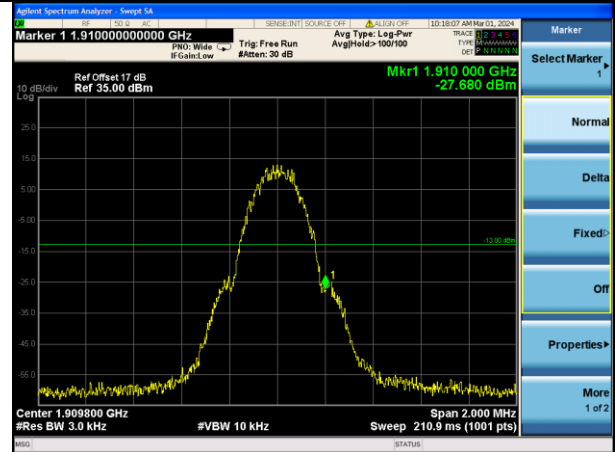
Highest channel

## Test Mode: Traffic mode

## PCS1900 (GSM link)



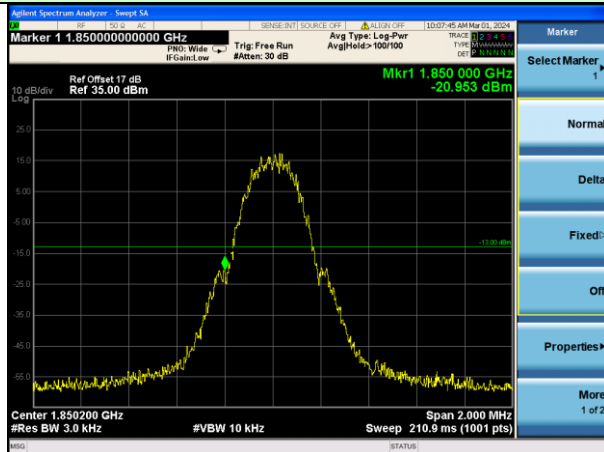
Lowest channel



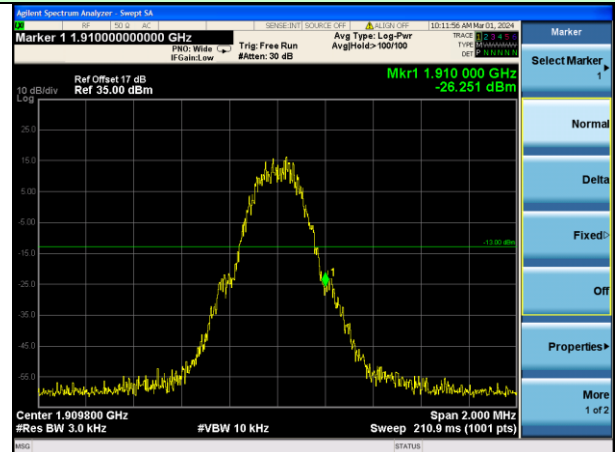
Highest channel

## Test Mode: Traffic mode

## PCS1900 (GPRS 1 link)



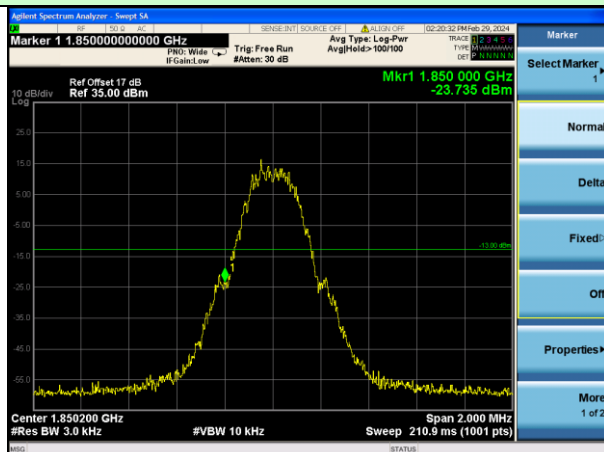
Lowest channel



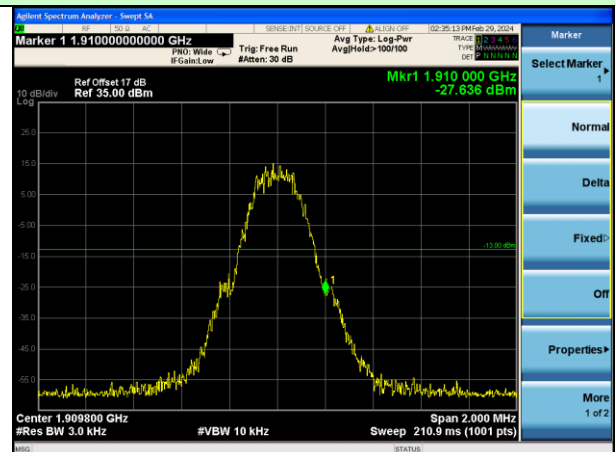
Highest channel

## Test Mode: Traffic mode

## PCS1900 (EGPRS 1 link)



Lowest channel



Highest channel



## Test Mode: Traffic mode

## WCDMA Band V (RMC 12.2Kbps link)



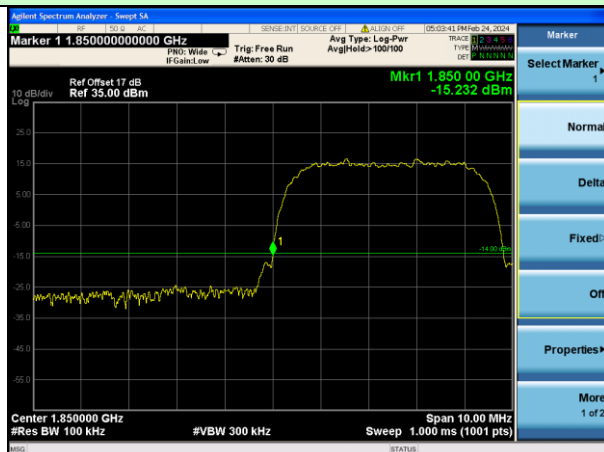
Lowest channel



Highest channel

## Test Mode: Traffic mode

## WCDMA Band II (RMC 12.2Kbps link)



Lowest channel



Highest channel

## Test Mode: Traffic mode

## WCDMA Band IV (RMC 12.2Kbps link)



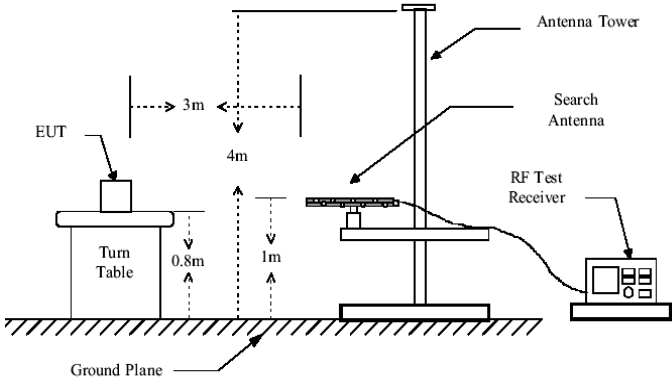
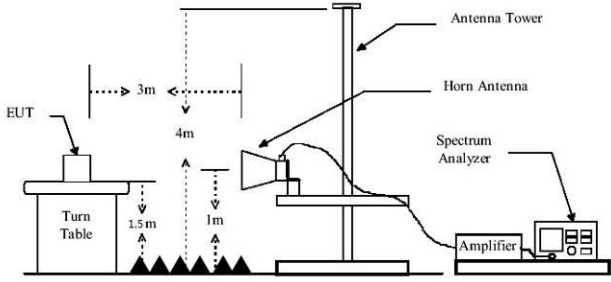
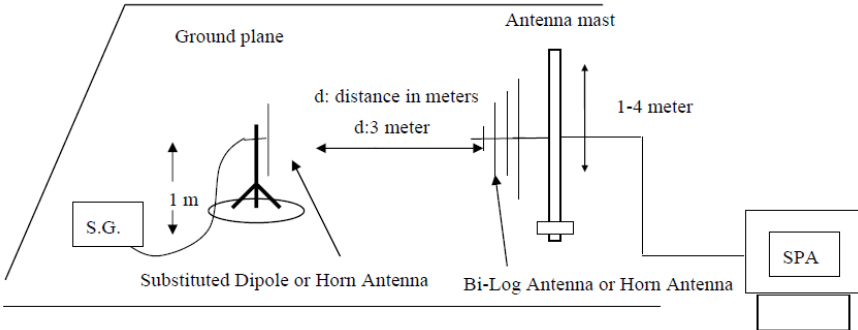
Lowest channel



Highest channel



#### 4.8 ERP, EIRP Measurement

|                   |                                                                                                                                                                                                                                                                                                                             |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC part22.913(a) and FCC part24.232(b) , Part 27.54(h)                                                                                                                                                                                                                                                                     |
| Test Method:      | FCC part2.1046                                                                                                                                                                                                                                                                                                              |
| Limit:            | GSM850, WCDMA Band V: 7W<br>PCS1900, WCDMA Band II: 2W<br>WCDMA Band IV: 1W                                                                                                                                                                                                                                                 |
| Test setup:       | <p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p>  |

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Procedure:   | <ol style="list-style-type: none"><li>1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.</li><li>2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.</li><li>3. ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated asfollows:<br/><math display="block">\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}</math></li><li>4. EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:<br/><math display="block">\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}</math></li></ol> |
| Test Instruments: | Refer to section 5.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test mode:        | Refer to section 6.1 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

Measurement Data

| EUT mode             | Channel | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|----------------------|---------|----------|--------------|----------|-------------|--------|
| GSM850<br>(GSM link) | Lowest  | H        | V            | 29.71    | 38.45       | Pass   |
|                      |         |          | H            | 28.73    |             |        |
|                      |         | E1       | V            | 29.83    |             |        |
|                      |         |          | H            | 27.25    |             |        |
|                      |         | E2       | V            | 29.19    |             |        |
|                      |         |          | H            | 26.70    |             |        |
|                      | Middle  | H        | V            | 30.38    | 38.45       | Pass   |
|                      |         |          | H            | 27.74    |             |        |
|                      |         | E1       | V            | 29.53    |             |        |
|                      |         |          | H            | 27.61    |             |        |
|                      |         | E2       | V            | 29.61    |             |        |
|                      |         |          | H            | 28.03    |             |        |
|                      | Highest | H        | V            | 30.37    | 38.45       | Pass   |
|                      |         |          | H            | 27.91    |             |        |
|                      |         | E1       | V            | 29.96    |             |        |
|                      |         |          | H            | 27.59    |             |        |
|                      |         | E2       | V            | 29.66    |             |        |
|                      |         |          | H            | 27.79    |             |        |

| EUT mode                | Channel | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|-------------------------|---------|----------|--------------|----------|-------------|--------|
| GSM850<br>(GPRS 1 link) | Lowest  | H        | V            | 27.21    | 38.45       | Pass   |
|                         |         |          | H            | 25.52    |             |        |
|                         |         | E1       | V            | 26.72    |             |        |
|                         |         |          | H            | 25.09    |             |        |
|                         |         | E2       | V            | 27.10    |             |        |
|                         |         |          | H            | 26.07    |             |        |
|                         | Middle  | H        | V            | 27.59    | 38.45       | Pass   |
|                         |         |          | H            | 25.26    |             |        |
|                         |         | E1       | V            | 27.08    |             |        |
|                         |         |          | H            | 24.80    |             |        |
|                         |         | E2       | V            | 26.48    |             |        |
|                         |         |          | H            | 25.44    |             |        |
|                         | Highest | H        | V            | 26.86    | 38.45       | Pass   |
|                         |         |          | H            | 25.44    |             |        |
|                         |         | E1       | V            | 26.80    |             |        |
|                         |         |          | H            | 25.31    |             |        |
|                         |         | E2       | V            | 27.87    |             |        |
|                         |         |          | H            | 25.28    |             |        |

| EUT mode                 | Channel | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|--------------------------|---------|----------|--------------|----------|-------------|--------|
| GSM850<br>(EGPRS 1 link) | Lowest  | H        | V            | 25.48    | 38.45       | Pass   |
|                          |         |          | H            | 23.33    |             |        |
|                          |         | E1       | V            | 26.06    |             |        |
|                          |         |          | H            | 24.02    |             |        |
|                          |         | E2       | V            | 25.12    |             |        |
|                          |         |          | H            | 23.72    |             |        |
|                          | Middle  | H        | V            | 25.56    | 38.45       | Pass   |
|                          |         |          | H            | 23.47    |             |        |
|                          |         | E1       | V            | 25.59    |             |        |
|                          |         |          | H            | 23.33    |             |        |
|                          |         | E2       | V            | 25.67    |             |        |
|                          |         |          | H            | 23.42    |             |        |
|                          | Highest | H        | V            | 25.40    | 38.45       | Pass   |
|                          |         |          | H            | 24.00    |             |        |
|                          |         | E1       | V            | 25.31    |             |        |
|                          |         |          | H            | 23.70    |             |        |
|                          |         | E2       | V            | 25.92    |             |        |
|                          |         |          | H            | 23.16    |             |        |

| EUT mode              | Channel | EUT Pol. | Antenna Pol. | EIRP (dBm) | Limit (dBm) | Result |
|-----------------------|---------|----------|--------------|------------|-------------|--------|
| PCS1900<br>(GSM link) | Lowest  | H        | V            | 29.75      | 33.01       | Pass   |
|                       |         |          | H            | 25.79      |             |        |
|                       |         | E1       | V            | 30.30      |             |        |
|                       |         |          | H            | 27.34      |             |        |
|                       |         | E2       | V            | 29.72      |             |        |
|                       |         |          | H            | 26.36      |             |        |
|                       | Middle  | H        | V            | 29.96      | 33.01       | Pass   |
|                       |         |          | H            | 26.84      |             |        |
|                       |         | E1       | V            | 29.81      |             |        |
|                       |         |          | H            | 26.86      |             |        |
|                       |         | E2       | V            | 30.12      |             |        |
|                       |         |          | H            | 27.25      |             |        |
|                       | Highest | H        | V            | 29.88      | 33.01       | Pass   |
|                       |         |          | H            | 26.34      |             |        |
|                       |         | E1       | V            | 28.94      |             |        |
|                       |         |          | H            | 26.55      |             |        |
|                       |         | E2       | V            | 29.14      |             |        |
|                       |         |          | H            | 26.37      |             |        |

| EUT mode                    | Channel | EUT Pol. | Antenna Pol. | EIRP (dBm) | Limit (dBm) | Result |
|-----------------------------|---------|----------|--------------|------------|-------------|--------|
| PCS1900<br>(GPRS 1<br>link) | Lowest  | H        | V            | 29.85      | 33.01       | Pass   |
|                             |         |          | H            | 25.72      |             |        |
|                             |         | E1       | V            | 29.40      |             |        |
|                             |         |          | H            | 26.70      |             |        |
|                             |         | E2       | V            | 29.67      |             |        |
|                             |         |          | H            | 26.35      |             |        |
|                             | Middle  | H        | V            | 29.78      | 33.01       | Pass   |
|                             |         |          | H            | 27.48      |             |        |
|                             |         | E1       | V            | 29.68      |             |        |
|                             |         |          | H            | 26.95      |             |        |
|                             |         | E2       | V            | 29.72      |             |        |
|                             |         |          | H            | 27.58      |             |        |
|                             | Highest | H        | V            | 30.05      | 33.01       | Pass   |
|                             |         |          | H            | 26.51      |             |        |
|                             |         | E1       | V            | 29.77      |             |        |
|                             |         |          | H            | 26.43      |             |        |
|                             |         | E2       | V            | 29.43      |             |        |
|                             |         |          | H            | 26.58      |             |        |



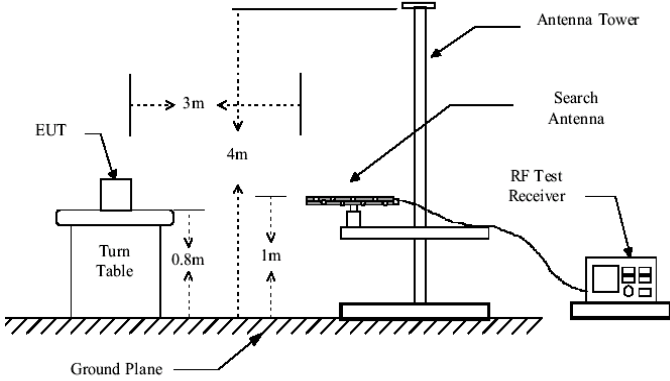
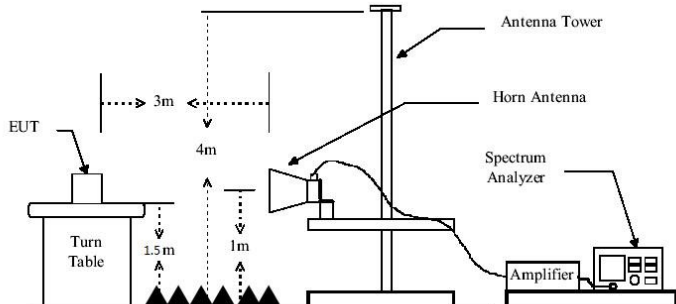
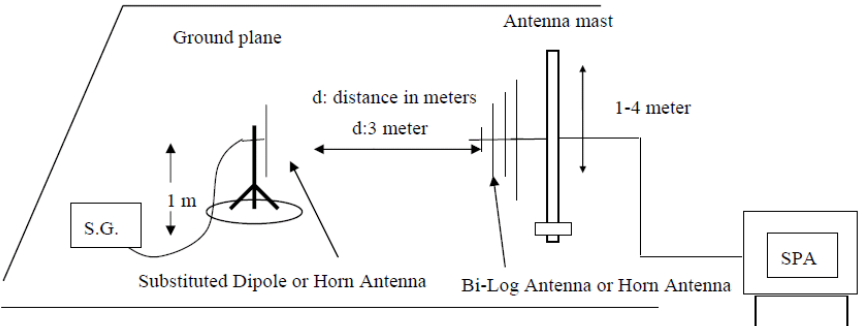
| EUT mode                  | Channel | EUT Pol. | Antenna Pol. | EIRP (dBm) | Limit (dBm) | Result |
|---------------------------|---------|----------|--------------|------------|-------------|--------|
| PCS1900<br>(EGPRS 1 link) | Lowest  | H        | V            | 27.22      | 33.01       | Pass   |
|                           |         |          | H            | 24.16      |             |        |
|                           |         | E1       | V            | 27.57      |             |        |
|                           |         |          | H            | 24.14      |             |        |
|                           |         | E2       | V            | 27.01      |             |        |
|                           |         |          | H            | 24.48      |             |        |
|                           | Middle  | H        | V            | 27.68      | 33.01       | Pass   |
|                           |         |          | H            | 24.65      |             |        |
|                           |         | E1       | V            | 28.31      |             |        |
|                           |         |          | H            | 24.72      |             |        |
|                           |         | E2       | V            | 27.17      |             |        |
|                           |         |          | H            | 25.20      |             |        |
|                           | Highest | H        | V            | 27.91      | 33.01       | Pass   |
|                           |         |          | H            | 23.83      |             |        |
|                           |         | E1       | V            | 27.36      |             |        |
|                           |         |          | H            | 23.98      |             |        |
|                           |         | E2       | V            | 27.19      |             |        |
|                           |         |          | H            | 25.15      |             |        |

| EUT mode        | Channel | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|-----------------|---------|----------|--------------|----------|-------------|--------|
| WCDMA<br>Band V | Lowest  | H        | V            | 20.68    | 38.45       | Pass   |
|                 |         |          | H            | 20.75    |             |        |
|                 |         | E1       | V            | 20.50    |             |        |
|                 |         |          | H            | 20.20    |             |        |
|                 |         | E2       | V            | 20.77    |             |        |
|                 |         |          | H            | 20.93    |             |        |
|                 | Middle  | H        | V            | 21.11    | 38.45       | Pass   |
|                 |         |          | H            | 20.39    |             |        |
|                 |         | E1       | V            | 21.16    |             |        |
|                 |         |          | H            | 19.88    |             |        |
|                 |         | E2       | V            | 21.26    |             |        |
|                 |         |          | H            | 20.20    |             |        |
|                 | Highest | H        | V            | 20.72    | 38.45       | Pass   |
|                 |         |          | H            | 19.45    |             |        |
|                 |         | E1       | V            | 20.74    |             |        |
|                 |         |          | H            | 20.02    |             |        |
|                 |         | E2       | V            | 21.57    |             |        |
|                 |         |          | H            | 20.78    |             |        |

| EUT mode         | Channel | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|------------------|---------|----------|--------------|-----------|-------------|--------|
| WCDMA<br>Band II | Lowest  | H        | V            | 21.76     | 33.01       | Pass   |
|                  |         |          | H            | 20.90     |             |        |
|                  |         | E1       | V            | 21.11     |             |        |
|                  |         |          | H            | 19.90     |             |        |
|                  |         | E2       | V            | 21.48     |             |        |
|                  |         |          | H            | 20.77     |             |        |
|                  | Middle  | H        | V            | 20.28     | 33.01       | Pass   |
|                  |         |          | H            | 19.80     |             |        |
|                  |         | E1       | V            | 21.12     |             |        |
|                  |         |          | H            | 20.72     |             |        |
|                  |         | E2       | V            | 21.11     |             |        |
|                  |         |          | H            | 19.68     |             |        |
|                  | Highest | H        | V            | 21.22     | 33.01       | Pass   |
|                  |         |          | H            | 20.44     |             |        |
|                  |         | E1       | V            | 20.62     |             |        |
|                  |         |          | H            | 19.93     |             |        |
|                  |         | E2       | V            | 21.21     |             |        |
|                  |         |          | H            | 19.21     |             |        |

| EUT mode         | Channel | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|------------------|---------|----------|--------------|-----------|-------------|--------|
| WCDMA<br>Band IV | Lowest  | H        | V            | 23.93     | 33.01       | Pass   |
|                  |         |          | H            | 21.98     |             |        |
|                  |         | E1       | V            | 21.98     |             |        |
|                  |         |          | H            | 22.05     |             |        |
|                  |         | E2       | V            | 21.58     |             |        |
|                  |         |          | H            | 22.13     |             |        |
|                  | Middle  | H        | V            | 22.13     | 33.01       | Pass   |
|                  |         |          | H            | 22.12     |             |        |
|                  |         | E1       | V            | 21.87     |             |        |
|                  |         |          | H            | 21.39     |             |        |
|                  |         | E2       | V            | 21.32     |             |        |
|                  |         |          | H            | 21.23     |             |        |
|                  | Highest | H        | V            | 22.02     | 33.01       | Pass   |
|                  |         |          | H            | 21.56     |             |        |
|                  |         | E1       | V            | 21.91     |             |        |
|                  |         |          | H            | 21.44     |             |        |
|                  |         | E2       | V            | 21.63     |             |        |
|                  |         |          | H            | 22.73     |             |        |

#### 4.9 Field strength of spurious radiation measurement

|                   |                                                                                                                                                                                                                                                                                                                            |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC part22.917(a) and FCC part24.238(a), Part 27.54(h)                                                                                                                                                                                                                                                                     |
| Test Method:      | FCC part2.1053                                                                                                                                                                                                                                                                                                             |
| Limit:            | -13dBm                                                                                                                                                                                                                                                                                                                     |
| Test setup:       | <p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p>  |

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Procedure:   | <ol style="list-style-type: none"><li>1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.</li><li>2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.</li><li>3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.</li><li>4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.<br/><math display="block">\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}</math></li></ol> |
| Test Instruments: | Refer to section 5.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test mode:        | Refer to section 6.1 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Measurement Data

| Test mode:      | GSM850            |             | Test channel: | Highest |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 1647.38         | Vertical          | -44.74      | -13.00        | Pass    |
| 2470.11         | V                 | -43.81      |               |         |
| 3297.68         | V                 | -38.28      |               |         |
| 4118.09         | V                 | -38.28      |               |         |
| 4942.09         | V                 | -40.07      |               |         |
| 1649.72         | Horizontal        | -42.07      | -13.00        | Pass    |
| 2473.06         | H                 | -42.40      |               |         |
| 3297.25         | H                 | -38.87      |               |         |
| 4118.38         | H                 | -37.73      |               |         |
| 4942.11         | H                 | -38.40      |               |         |
| Test mode:      | GPRS850           |             | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 1670.00         | Vertical          | -40.80      | -13.00        | Pass    |
| 2506.86         | V                 | -37.83      |               |         |
| 3345.16         | V                 | -34.79      |               |         |
| 4178.73         | V                 | -32.99      |               |         |
| 5014.73         | V                 | -31.67      |               |         |
| 1671.68         | Horizontal        | -39.41      | -13.00        | Pass    |
| 2508.71         | H                 | -36.15      |               |         |
| 3345.81         | H                 | -34.56      |               |         |
| 4180.04         | H                 | -31.22      |               |         |
| 5014.86         | H                 | -31.31      |               |         |
| Test mode:      | EGPRS850          |             | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 1695.79         | Vertical          | -44.33      | -13.00        | Pass    |
| 2543.70         | V                 | -42.22      |               |         |
| 3390.58         | V                 | -41.38      |               |         |
| 4241.69         | V                 | -35.88      |               |         |
| 5089.69         | V                 | -36.47      |               |         |
| 1694.96         | Horizontal        | -44.83      | -13.00        | Pass    |
| 2542.57         | H                 | -44.89      |               |         |
| 3390.71         | H                 | -38.26      |               |         |
| 4238.09         | H                 | -40.27      |               |         |
| 5087.70         | H                 | -38.69      |               |         |

## Remark :

1. The emission behaviour belongs to narrowband spurious emission.
2. The above table only shows the worst case channel of each mode.
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

| Test mode:      | PCS1900           |             | Test channel: | Highest |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3698.88         | Vertical          | -45.24      | -13.00        | Pass    |
| 5550.29         | V                 | -41.63      |               |         |
| 7398.59         | V                 | -41.37      |               |         |
| 9248.70         | V                 | -36.47      |               |         |
| 11098.70        | V                 | -39.46      |               |         |
| 3699.19         | Horizontal        | -44.60      | -13.00        | Pass    |
| 5549.28         | H                 | -44.18      |               |         |
| 7401.28         | H                 | -39.76      |               |         |
| 9248.05         | H                 | -37.70      |               |         |
| 11100.29        | H                 | -38.73      |               |         |
| Test mode:      | GPRS1900          |             | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3759.34         | Vertical          | -44.78      | -13.00        | Pass    |
| 5640.39         | V                 | -41.53      |               |         |
| 7520.37         | V                 | -39.59      |               |         |
| 9401.13         | V                 | -36.75      |               |         |
| 11281.13        | V                 | -37.03      |               |         |
| 3758.19         | Horizontal        | -45.60      | -13.00        | Pass    |
| 5640.16         | H                 | -43.30      |               |         |
| 7520.60         | H                 | -38.58      |               |         |
| 9398.15         | H                 | -38.38      |               |         |
| 11280.39        | H                 | -38.63      |               |         |
| Test mode:      | EGPRS1900         |             | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3818.58         | Vertical          | -45.54      | -13.00        | Pass    |
| 5730.36         | V                 | -41.56      |               |         |
| 7639.35         | V                 | -40.61      |               |         |
| 9550.12         | V                 | -38.87      |               |         |
| 11460.12        | V                 | -38.04      |               |         |
| 3821.90         | Horizontal        | -41.89      | -13.00        | Pass    |
| 5730.80         | H                 | -42.66      |               |         |
| 7638.45         | H                 | -38.37      |               |         |
| 9551.35         | H                 | -40.53      |               |         |
| 11460.36        | H                 | -35.43      |               |         |

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. The above table only shows the worst case channel of each mode.
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.



| Test mode:      | WCDMA Band V      |             | Test channel: | Lowest  |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 1651.72         | Vertical          | -44.40      | -13.00        | Pass    |
| 2477.00         | V                 | -42.92      |               |         |
| 3303.08         | V                 | -40.88      |               |         |
| 4130.19         | V                 | -36.12      |               |         |
| 4956.19         | V                 | -37.97      |               |         |
| 1653.47         | Horizontal        | -42.32      | -13.00        | Pass    |
| 2477.00         | H                 | -44.46      |               |         |
| 3302.40         | H                 | -38.63      |               |         |
| 4128.80         | H                 | -40.58      |               |         |
| 4955.00         | H                 | -37.98      |               |         |
| Test mode:      | WCDMA Band V      |             | Test channel: | Middle  |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 1672.36         | Vertical          | -43.76      | -13.00        | Pass    |
| 2507.43         | V                 | -42.49      |               |         |
| 3342.83         | V                 | -41.13      |               |         |
| 4180.68         | V                 | -38.17      |               |         |
| 5016.68         | V                 | -37.48      |               |         |
| 1673.04         | Horizontal        | -42.75      | -13.00        | Pass    |
| 2507.76         | H                 | -43.70      |               |         |
| 3345.30         | H                 | -40.60      |               |         |
| 4181.23         | H                 | -37.68      |               |         |
| 5015.43         | H                 | -35.55      |               |         |
| Test mode:      | WCDMA Band V      |             | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 1693.67         | Vertical          | -42.45      | -13.00        | Pass    |
| 2536.55         | V                 | -43.37      |               |         |
| 3385.73         | V                 | -38.23      |               |         |
| 4228.06         | V                 | -36.09      |               |         |
| 5074.06         | V                 | -40.10      |               |         |
| 1693.55         | Horizontal        | -42.24      | -13.00        | Pass    |
| 2536.54         | H                 | -44.92      |               |         |
| 3385.41         | H                 | -37.96      |               |         |
| 4230.64         | H                 | -37.57      |               |         |
| 5074.55         | H                 | -36.14      |               |         |

Remark :

1. The emission behaviour belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

| Test mode:      | WCDMA Band II     |             | Test channel: | Lowest  |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3701.23         | Vertical          | -42.89      | -13.00        | Pass    |
| 5551.28         | V                 | -40.64      |               |         |
| 7400.23         | V                 | -39.73      |               |         |
| 9248.09         | V                 | -39.62      |               |         |
| 11098.09        | V                 | -40.07      |               |         |
| 3700.49         | Horizontal        | -43.30      | -13.00        | Pass    |
| 5550.20         | H                 | -43.26      |               |         |
| 7399.24         | H                 | -37.57      |               |         |
| 9249.72         | H                 | -39.74      |               |         |
| 11101.28        | H                 | -37.06      |               |         |
| Test mode:      | WCDMA Band II     |             | Test channel: | Middle  |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3761.14         | Vertical          | -42.98      | -13.00        | Pass    |
| 5638.01         | V                 | -43.91      |               |         |
| 7521.99         | V                 | -37.97      |               |         |
| 9401.27         | V                 | -38.78      |               |         |
| 11281.27        | V                 | -36.89      |               |         |
| 3759.46         | Horizontal        | -44.33      | -13.00        | Pass    |
| 5641.41         | H                 | -42.05      |               |         |
| 7521.59         | H                 | -38.65      |               |         |
| 9399.56         | H                 | -37.39      |               |         |
| 11278.01        | H                 | -37.22      |               |         |
| Test mode:      | WCDMA Band II     |             | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3821.36         | Vertical          | -42.76      | -13.00        | Pass    |
| 5728.18         | V                 | -43.74      |               |         |
| 7640.27         | V                 | -39.69      |               |         |
| 9549.68         | V                 | -36.81      |               |         |
| 11459.68        | V                 | -38.48      |               |         |
| 3821.64         | Horizontal        | -42.15      | -13.00        | Pass    |
| 5731.77         | H                 | -41.69      |               |         |
| 7640.63         | H                 | -38.26      |               |         |
| 9549.14         | H                 | -38.35      |               |         |
| 11458.18        | H                 | -37.64      |               |         |

Remark:

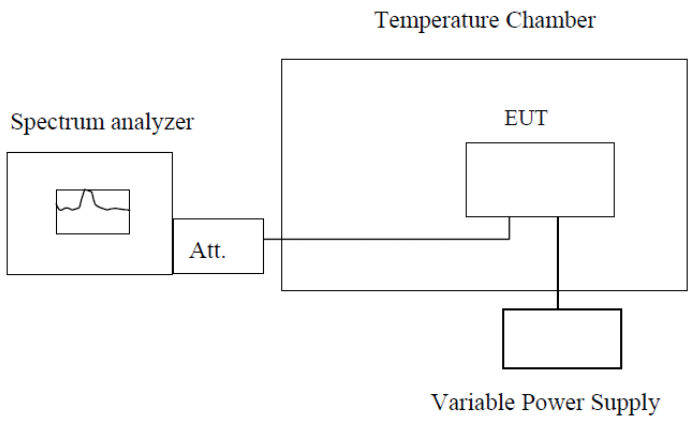
1. The emission behaviour belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

| Test mode:      | WCDMA Band IV     |             | Test channel: | Lowest  |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3421.20         | Vertical          | -42.92      | -13.00        | Pass    |
| 5129.12         | V                 | -42.80      |               |         |
| 6840.57         | V                 | -39.39      |               |         |
| 8548.09         | V                 | -38.79      |               |         |
| 10258.09        | V                 | -40.07      |               |         |
| 3420.75         | Horizontal        | -43.04      | -13.00        | Pass    |
| 5129.05         | H                 | -44.41      |               |         |
| 6839.54         | H                 | -40.85      |               |         |
| 8551.61         | H                 | -39.44      |               |         |
| 10259.12        | H                 | -35.17      |               |         |
| Test mode:      | WCDMA Band IV     |             | Test channel: | Middle  |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3460.68         | Vertical          | -43.44      | -13.00        | Pass    |
| 5190.60         | V                 | -41.32      |               |         |
| 6921.48         | V                 | -38.48      |               |         |
| 8648.17         | V                 | -36.31      |               |         |
| 10378.17        | V                 | -39.99      |               |         |
| 3458.59         | Horizontal        | -45.20      | -13.00        | Pass    |
| 5190.70         | H                 | -42.76      |               |         |
| 6920.71         | H                 | -39.26      |               |         |
| 8650.67         | H                 | -38.27      |               |         |
| 10380.60        | H                 | -36.11      |               |         |
| Test mode:      | WCDMA Band IV     |             | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3501.41         | Vertical          | -42.71      | -13.00        | Pass    |
| 5252.00         | V                 | -39.92      |               |         |
| 7000.79         | V                 | -39.17      |               |         |
| 8748.07         | V                 | -38.96      |               |         |
| 10498.07        | V                 | -40.09      |               |         |
| 3501.41         | Horizontal        | -42.38      | -13.00        | Pass    |
| 5248.65         | H                 | -44.81      |               |         |
| 6999.27         | H                 | -39.91      |               |         |
| 8751.84         | H                 | -39.71      |               |         |
| 10502.00        | H                 | -34.94      |               |         |

## Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

#### 4.10 Frequency stability V.S. Temperature measurement

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part2.1055(a)(1)(b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Test Method:      | FCC Part2.1055(a)(1)(b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Limit:            | 2.5ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test setup:       | <p style="text-align: center;">  </p> <p style="text-align: center;"><b>Note :</b> Measurement setup for testing on Antenna connector</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Test procedure:   | <ol style="list-style-type: none"> <li>1. The equipment under test was connected to an external DC power supply and input rated voltage.</li> <li>2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.</li> <li>3. The EUT was placed inside the temperature chamber.</li> <li>4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.</li> <li>5. Turn EUT off and set the chamber temperature to –20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.</li> <li>6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.</li> </ol> |
| Test Instruments: | Refer to section 5.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test mode:        | Refer to section 6.1 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Measurement Data

| Reference Frequency: GSM850 (GSM link) Middle channel=190 channel=836.6MHz     |                  |                 |         |             |        |
|--------------------------------------------------------------------------------|------------------|-----------------|---------|-------------|--------|
| Power supplied (Vdc)                                                           | Temperature (°C) | Frequency error |         | Limit (ppm) | Result |
|                                                                                |                  | Hz              | ppm     |             |        |
| 3.8                                                                            | -20              | 19              | 0.0222  | 2.5         | Pass   |
|                                                                                | -10              | 20              | 0.0240  |             |        |
|                                                                                | 0                | 27              | 0.0319  |             |        |
|                                                                                | 10               | -25             | -0.0304 |             |        |
|                                                                                | 20               | 23              | 0.0271  |             |        |
|                                                                                | 30               | 16              | 0.0186  |             |        |
|                                                                                | 40               | 0               | -0.0006 |             |        |
|                                                                                | 50               | 3               | 0.0037  |             |        |
|                                                                                | 60               | 11              | 0.0131  |             |        |
| Reference Frequency: GSM850 (GPRS 1 link) Middle channel=190 channel=836.6MHz  |                  |                 |         |             |        |
| Power supplied (Vdc)                                                           | Temperature (°C) | Frequency error |         | Limit (ppm) | Result |
|                                                                                |                  | Hz              | ppm     |             |        |
| 3.8                                                                            | -20              | 24              | 0.0288  | 2.5         | Pass   |
|                                                                                | -10              | 21              | 0.0251  |             |        |
|                                                                                | 0                | 27              | 0.0326  |             |        |
|                                                                                | 10               | -30             | -0.0360 |             |        |
|                                                                                | 20               | 23              | 0.0278  |             |        |
|                                                                                | 30               | 15              | 0.0175  |             |        |
|                                                                                | 40               | -1              | -0.0011 |             |        |
|                                                                                | 50               | 10              | 0.0114  |             |        |
|                                                                                | 60               | 15              | 0.0181  |             |        |
| Reference Frequency: GSM850 (EGPRS 1 link) Middle channel=190 channel=836.6MHz |                  |                 |         |             |        |
| Power supplied (Vdc)                                                           | Temperature (°C) | Frequency error |         | Limit (ppm) | Result |
|                                                                                |                  | Hz              | ppm     |             |        |
| 3.8                                                                            | -20              | 19              | 0.0230  | 2.5         | Pass   |
|                                                                                | -10              | 26              | 0.0306  |             |        |
|                                                                                | 0                | 22              | 0.0264  |             |        |
|                                                                                | 10               | -32             | -0.0379 |             |        |
|                                                                                | 20               | 24              | 0.0291  |             |        |
|                                                                                | 30               | 14              | 0.0165  |             |        |
|                                                                                | 40               | 0               | -0.0005 |             |        |
|                                                                                | 50               | 8               | 0.0097  |             |        |
|                                                                                | 60               | 8               | 0.0101  |             |        |

| Reference Frequency: PCS1900 (GSM link) Middle channel=661 channel=1880MHz     |                  |                 |         |     |        |
|--------------------------------------------------------------------------------|------------------|-----------------|---------|-----|--------|
| Power supplied (Vdc)                                                           | Temperature (°C) | Frequency error |         |     | Result |
|                                                                                |                  | Hz              | ppm     |     |        |
| 3.8                                                                            | -20              | 22              | 0.0115  | 2.5 | Pass   |
|                                                                                | -10              | 23              | 0.0123  |     |        |
|                                                                                | 0                | 18              | 0.0098  |     |        |
|                                                                                | 10               | -23             | -0.0120 |     |        |
|                                                                                | 20               | 17              | 0.0089  |     |        |
|                                                                                | 30               | 13              | 0.0068  |     |        |
|                                                                                | 40               | -5              | -0.0026 |     |        |
|                                                                                | 50               | 15              | 0.0081  |     |        |
|                                                                                | 60               | 12              | 0.0062  |     |        |
| Reference Frequency: PCS1900 (GPRS 1 link) Middle channel=661 channel=1880MHz  |                  |                 |         |     |        |
| Power supplied (Vdc)                                                           | Temperature (°C) | Frequency error |         |     | Result |
|                                                                                |                  | Hz              | ppm     |     |        |
| 3.8                                                                            | -20              | 20              | 0.0107  | 2.5 | Pass   |
|                                                                                | -10              | 21              | 0.0110  |     |        |
|                                                                                | 0                | 20              | 0.0109  |     |        |
|                                                                                | 10               | -25             | -0.0133 |     |        |
|                                                                                | 20               | 21              | 0.0114  |     |        |
|                                                                                | 30               | 17              | 0.0091  |     |        |
|                                                                                | 40               | -5              | -0.0028 |     |        |
|                                                                                | 50               | 10              | 0.0052  |     |        |
|                                                                                | 60               | 14              | 0.0072  |     |        |
| Reference Frequency: PCS1900 (EGPRS 1 link) Middle channel=661 channel=1880MHz |                  |                 |         |     |        |
| Power supplied (Vdc)                                                           | Temperature (°C) | Frequency error |         |     | Result |
|                                                                                |                  | Hz              | ppm     |     |        |
| 3.8                                                                            | -20              | 20              | 0.0107  | 2.5 | Pass   |
|                                                                                | -10              | 24              | 0.0128  |     |        |
|                                                                                | 0                | 18              | 0.0098  |     |        |
|                                                                                | 10               | -27             | -0.0144 |     |        |
|                                                                                | 20               | 18              | 0.0097  |     |        |
|                                                                                | 30               | 13              | 0.0071  |     |        |
|                                                                                | 40               | -3              | -0.0014 |     |        |
|                                                                                | 50               | 13              | 0.0069  |     |        |
|                                                                                | 60               | 12              | 0.0065  |     |        |

| Reference Frequency: WCDMA Band V Middle channel=4183 channel=836.6MHz   |                  |                 |         |             |        |
|--------------------------------------------------------------------------|------------------|-----------------|---------|-------------|--------|
| Power supplied (Vdc)                                                     | Temperature (°C) | Frequency error |         | Limit (ppm) | Result |
|                                                                          |                  | Hz              | ppm     |             |        |
| 3.8                                                                      | -20              | 23              | 0.0271  | 2.5         | Pass   |
|                                                                          | -10              | 20              | 0.0244  |             |        |
|                                                                          | 0                | 28              | 0.0335  |             |        |
|                                                                          | 10               | -26             | -0.0316 |             |        |
|                                                                          | 20               | 19              | 0.0232  |             |        |
|                                                                          | 30               | 14              | 0.0162  |             |        |
|                                                                          | 40               | -5              | -0.0058 |             |        |
|                                                                          | 50               | 11              | 0.0128  |             |        |
|                                                                          | 60               | 13              | 0.0161  |             |        |
| Reference Frequency: WCDMA Band II Middle channel=9400 channel=1880.0MHz |                  |                 |         |             |        |
| Power supplied (Vdc)                                                     | Temperature (°C) | Frequency error |         | Limit (ppm) | Result |
|                                                                          |                  | Hz              | ppm     |             |        |
| 3.8                                                                      | -20              | 15              | 0.0080  | 2.5         | Pass   |
|                                                                          | -10              | 23              | 0.0120  |             |        |
|                                                                          | 0                | 21              | 0.0109  |             |        |
|                                                                          | 10               | -22             | -0.0117 |             |        |
|                                                                          | 20               | 18              | 0.0098  |             |        |
|                                                                          | 30               | 13              | 0.0070  |             |        |
|                                                                          | 40               | -4              | -0.0023 |             |        |
|                                                                          | 50               | 14              | 0.0074  |             |        |
|                                                                          | 60               | 15              | 0.0079  |             |        |
| Reference Frequency: WCDMA Band IV Middle channel=1450 channel=1740.0MHz |                  |                 |         |             |        |
| Power supplied (Vdc)                                                     | Temperature (°C) | Frequency error |         | Limit (ppm) | Result |
|                                                                          |                  | Hz              | ppm     |             |        |
| 3.8                                                                      | -20              | 21              | 0.0121  | 2.5         | Pass   |
|                                                                          | -10              | 24              | 0.0134  |             |        |
|                                                                          | 0                | 21              | 0.0118  |             |        |
|                                                                          | 10               | -27             | -0.0147 |             |        |
|                                                                          | 20               | 20              | 0.0113  |             |        |
|                                                                          | 30               | 20              | 0.0109  |             |        |
|                                                                          | 40               | -1              | -0.0004 |             |        |
|                                                                          | 50               | 15              | 0.0081  |             |        |
|                                                                          | 60               | 13              | 0.0072  |             |        |

#### 4.11 Frequency stability V.S. Voltage measurement

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part2.1055(d)(1)(2)                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Test Method:      | FCC Part2.1055(d)(1)(2)                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Limit:            | 2.5ppm                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test setup:       | <p style="text-align: center;"> </p> <p style="text-align: center;">Note : Measurement setup for testing on Antenna connector</p>                                                                                                                                                                                                                                                                                                                |
| Test procedure:   | <ol style="list-style-type: none"> <li>1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage.</li> <li>2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.</li> <li>3. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.</li> </ol> |
| Test Instruments: | Refer to section 5.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test mode:        | Refer to section 6.1 for details                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                             |



## Measurement Data

| Reference Frequency: GSM850 (GSM link) Middle channel=190 channel=836.6MHz     |                      |                 |        |             |        |
|--------------------------------------------------------------------------------|----------------------|-----------------|--------|-------------|--------|
| Temperature (°C)                                                               | Power supplied (Vdc) | Frequency error |        | Limit (ppm) | Result |
|                                                                                |                      | Hz              | ppm    |             |        |
| 25                                                                             | 4.18                 | 4               | 0.0046 | 2.5         | Pass   |
|                                                                                | 3.8                  | 2               | 0.0030 |             |        |
|                                                                                | 3.42                 | 3               | 0.0035 |             |        |
| Reference Frequency: GSM850 (GPRS 1 link) Middle channel=190 channel=836.6MHz  |                      |                 |        |             |        |
| Temperature (°C)                                                               | Power supplied (Vdc) | Frequency error |        | Limit (ppm) | Result |
|                                                                                |                      | Hz              | ppm    |             |        |
| 25                                                                             | 4.18                 | 4               | 0.005  | 2.5         | Pass   |
|                                                                                | 3.8                  | 2               | 0.002  |             |        |
|                                                                                | 3.42                 | 3               | 0.004  |             |        |
| Reference Frequency: GSM850 (EGPRS 1 link) Middle channel=190 channel=836.6MHz |                      |                 |        |             |        |
| Temperature (°C)                                                               | Power supplied (Vdc) | Frequency error |        | Limit (ppm) | Result |
|                                                                                |                      | Hz              | ppm    |             |        |
| 25                                                                             | 4.18                 | 3               | 0.004  | 2.5         | Pass   |
|                                                                                | 3.8                  | 2               | 0.002  |             |        |
|                                                                                | 3.42                 | 2               | 0.003  |             |        |

| Reference Frequency: PCS1900 (GSM link) Middle channel=661 channel=1880MHz     |                      |                 |       |             |        |
|--------------------------------------------------------------------------------|----------------------|-----------------|-------|-------------|--------|
| Temperature (°C)                                                               | Power supplied (Vdc) | Frequency error |       | Limit (ppm) | Result |
|                                                                                |                      | Hz              | ppm   |             |        |
| 25                                                                             | 4.18                 | 4               | 0.002 | 2.5         | Pass   |
|                                                                                | 3.8                  | 2               | 0.001 |             |        |
|                                                                                | 3.42                 | 3               | 0.001 |             |        |
| Reference Frequency: PCS1900 (GPRS 1 link) Middle channel=661 channel=1880MHz  |                      |                 |       |             |        |
| Temperature (°C)                                                               | Power supplied (Vdc) | Frequency error |       | Limit (ppm) | Result |
|                                                                                |                      | Hz              | ppm   |             |        |
| 25                                                                             | 4.18                 | 3               | 0.002 | 2.5         | Pass   |
|                                                                                | 3.8                  | 2               | 0.001 |             |        |
|                                                                                | 3.42                 | 3               | 0.001 |             |        |
| Reference Frequency: PCS1900 (EGPRS 1 link) Middle channel=661 channel=1880MHz |                      |                 |       |             |        |
| Temperature (°C)                                                               | Power supplied (Vdc) | Frequency error |       | Limit (ppm) | Result |
|                                                                                |                      | Hz              | ppm   |             |        |
| 25                                                                             | 4.18                 | 4               | 0.002 | 2.5         | Pass   |
|                                                                                | 3.8                  | 1               | 0.001 |             |        |
|                                                                                | 3.42                 | 3               | 0.002 |             |        |

| Reference Frequency: WCDMA Band V Middle channel=4183 channel=836.6MHz   |                      |                 |       |             |        |
|--------------------------------------------------------------------------|----------------------|-----------------|-------|-------------|--------|
| Temperature (℃)                                                          | Power supplied (Vdc) | Frequency error |       | Limit (ppm) | Result |
|                                                                          |                      | Hz              | ppm   |             |        |
| 25                                                                       | 4.18                 | 4               | 0.004 | 2.5         | Pass   |
|                                                                          | 3.8                  | 2               | 0.002 |             |        |
|                                                                          | 3.42                 | 2               | 0.002 |             |        |
| Reference Frequency: WCDMA Band II Middle channel=940 channel=1880.0MHz  |                      |                 |       |             |        |
| Temperature (℃)                                                          | Power supplied (Vdc) | Frequency error |       | Limit (ppm) | Result |
|                                                                          |                      | Hz              | ppm   |             |        |
| 25                                                                       | 4.18                 | 4               | 0.004 | 2.5         | Pass   |
|                                                                          | 3.8                  | 1               | 0.001 |             |        |
|                                                                          | 3.42                 | 2               | 0.003 |             |        |
| Reference Frequency: WCDMA Band IV Middle channel=1450 channel=1740.0MHz |                      |                 |       |             |        |
| Temperature (℃)                                                          | Power supplied (Vdc) | Frequency error |       | Limit (ppm) | Result |
|                                                                          |                      | Hz              | ppm   |             |        |
| 25                                                                       | 4.18                 | 4               | 0.005 | 2.5         | Pass   |
|                                                                          | 3.8                  | 2               | 0.002 |             |        |
|                                                                          | 3.42                 | 2               | 0.004 |             |        |

## 5 Test Setup Photo

Radiated Emission

