



# FCC RF Test Report

APPLICANT : Honeywell International Inc.  
EQUIPMENT : CN75WAN mobile computer  
BRAND NAME : Honeywell  
MODEL NAME : CN75WAN  
MARKETING NAME : CN75  
FCC ID : HD5-CN75WAN  
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)  
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Dec. 28, 2016 and testing was completed on Jan. 25, 2017. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-D-2010 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



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FCC ID : HD5-CN75WAN

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## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FG6D2819   | Rev. 01 | Initial issue of report | Mar. 08, 2017 |
|            |         |                         |               |
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## SUMMARY OF TEST RESULT

| Report Section | FCC Rule                            | Description                                   | Limit                  | Result | Remark                                     |
|----------------|-------------------------------------|-----------------------------------------------|------------------------|--------|--------------------------------------------|
| 3.4            | §2.1046                             | Conducted Output Power                        | Reporting Only         | PASS   | -                                          |
|                | §22.913(a)(2)                       | Effective Radiated Power                      | < 7 Watts              | PASS   | -                                          |
|                | §24.232(c)                          | Equivalent Isotropic Radiated Power           | < 2 Watts              | PASS   | -                                          |
| 3.5            | §24.232(d)                          | Peak-to-Average Ratio                         | < 13 dB                | PASS   | -                                          |
| 3.6            | §2.1049<br>§22.917(b)<br>§24.238(b) | Occupied Bandwidth                            | Reporting Only         | PASS   | -                                          |
| 3.7            | §2.1051<br>§22.917(a)<br>§24.238(a) | Band Edge Measurement                         | < 43+10log10(P[Watts]) | PASS   | -                                          |
| 3.8            | §2.1051<br>§22.917(a)<br>§24.238(a) | Conducted Emission                            | < 43+10log10(P[Watts]) | PASS   | -                                          |
| 3.9            | §2.1055<br>§22.355                  | Frequency Stability for Temperature & Voltage | < 2.5 ppm for Part 22  | PASS   | -                                          |
|                | §2.1055<br>§24.235                  |                                               | Within Authorized Band |        |                                            |
| 4.4            | §2.1053<br>§22.917(a)<br>§24.238(a) | Field Strength of Spurious Radiation          | < 43+10log10(P[Watts]) | PASS   | Under limit<br>22.58 dB at<br>3763.000 MHz |



# 1 General Description

## 1.1 Applicant

Honeywell International Inc.

9680 Old Bailes Road, Fort Mill, SC 29707 USA

## 1.2 Manufacturer

Honeywell International Inc.

9680 Old Bailes Road, Fort Mill, SC 29707 USA

## 1.3 Product Feature of Equipment Under Test

| Product Feature                 |                                                                               |
|---------------------------------|-------------------------------------------------------------------------------|
| Equipment                       | CN75WAN mobile computer                                                       |
| Brand Name                      | Honeywell                                                                     |
| Model Name                      | CN75WAN                                                                       |
| Marketing Name                  | CN75                                                                          |
| FCC ID                          | HD5-CN75WAN                                                                   |
| Sample 1                        | CN75 WWAN-Q5 WWAN_Q5 keypad                                                   |
| Sample 2                        | CN75 WWAN-N5 WWAN_N5 keypad                                                   |
| Sample 3                        | CN75E WWAN-N7 WWAN_N7 keypad                                                  |
| Sample 4                        | CN75E WWAN-Q6 WWAN_Q6 keypad                                                  |
| EUT supports Radios application | CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA<br>WLAN 11a/b/g/n HT20<br>Bluetooth BR/EDR/LE |
| HW Version                      | v1.1                                                                          |
| SW Version                      | W03.320                                                                       |
| EUT Stage                       | Identical Prototype                                                           |

**Remark:**

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. All the tests were performed with Sample 2.

## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification |                                                                                                                                                                                                                                                                  |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tx Frequency</b>                     | <b>GSM/GPRS/EDGE:</b><br>850: 824.2 MHz ~ 848.8 MHz<br>1900: 1850.2 MHz ~ 1909.8MHz<br><b>WCDMA:</b><br>Band V: 826.4 MHz ~ 846.6 MHz<br>Band II: 1852.4 MHz ~ 1907.6 MHz<br><b>CDMA2000:</b><br>BC0: 824.70 MHz ~ 848.31 MHz<br>BC1: 1851.25 MHz ~ 1908.75 MHz  |
| <b>Rx Frequency</b>                     | <b>GSM/GPRS/EDGE:</b><br>850: 869.2 MHz ~ 893.8 MHz<br>1900: 1930.2 MHz ~ 1989.8 MHz<br><b>WCDMA:</b><br>Band V: 871.4 MHz ~ 891.6 MHz<br>Band II: 1932.4 MHz ~ 1987.6 MHz<br><b>CDMA2000:</b><br>BC0: 869.70 MHz ~ 893.31 MHz<br>BC1: 1931.25 MHz ~ 1988.75 MHz |
| <b>Maximum Output Power to Antenna</b>  | <b>GSM/GPRS/EDGE:</b><br>850: 32.99 dBm<br>1900: 30.06 dBm<br><b>WCDMA:</b><br>Band V: 24.06 dBm<br>Band II: 24.26 dBm<br><b>CDMA2000:</b><br>BC0: 24.10 dBm<br>BC1: 23.85 dBm                                                                                   |
| <b>Antenna Type</b>                     | PIFA Antenna                                                                                                                                                                                                                                                     |
| <b>Antenna Gain</b>                     | Cellular Band: 0.12 dBi<br>PCS Band: 1.06 dBi                                                                                                                                                                                                                    |
| <b>Type of Modulation</b>               | GSM: GMSK<br>GPRS: GMSK<br>EDGE: GMSK / 8PSK<br>WCDMA: BPSK (Uplink)<br>HSDPA: 16QAM (Uplink)<br>HSUPA: QPSK (Uplink)<br>CDMA2000 1xRTT: QPSK<br>CDMA2000 1xEV-DO: QPSK/8PSK                                                                                     |

## 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

| FCC Rule | System                      | Type of Modulation | Maximum ERP/EIRP (W) | Frequency Tolerance (ppm) | Emission Designator |
|----------|-----------------------------|--------------------|----------------------|---------------------------|---------------------|
| Part 22  | GSM850 GPRS class 8         | GMSK               | 1.2474               | 0.0120 ppm                | 246KGXW             |
| Part 22  | GSM850 EDGE class 8         | 8PSK               | 0.2938               | 0.0430 ppm                | 247KG7W             |
| Part 22  | WCDMA Band V RMC 12.2Kbps   | BPSK               | 0.1596               | 0.0060 ppm                | 4M14F9W             |
| Part 22  | CDMA2000 BC0 1xRTT          | QPSK               | 0.1611               | 0.0108 ppm                | 1M27F9W             |
| Part 22  | CDMA2000 BC0 1xEV-DO Rev. 0 | QPSK               | 0.1607               | -                         | -                   |
| Part 24  | GSM1900 GPRS class 8        | GMSK               | 1.2942               | 0.0223 ppm                | 246KGXW             |
| Part 24  | GSM1900 EDGE class 8        | 8PSK               | 0.4920               | 0.0314 ppm                | 246KG7W             |
| Part 24  | WCDMA Band II RMC 12.2Kbps  | BPSK               | 0.3404               | 0.0309 ppm                | 4M16F9W             |
| Part 24  | CDMA2000 BC1 1xRTT          | QPSK               | 0.3097               | 0.0202 ppm                | 1M28F9W             |
| Part 24  | CDMA2000 BC1 1xEV-DO Rev. 0 | QPSK               | 0.3090               | -                         | -                   |

## 1.7 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

|                           |                                                                                                                                                                  |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Site</b>          | SPORTON INTERNATIONAL INC.                                                                                                                                       |
| <b>Test Site Location</b> | No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park,<br>Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                                          |
|                           | TH03-HY                                                                                                                                                          |

|                           |                                                                                                                                        |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Site</b>          | SPORTON INTERNATIONAL INC.                                                                                                             |
| <b>Test Site Location</b> | No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-0868<br>FAX: +886-3-327-0855 |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                |
|                           | 03CH11HY                                                                                                                               |

## 1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 22(H), 24(E)
- ANSI / TIA / EIA-603-D-2010
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

### Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

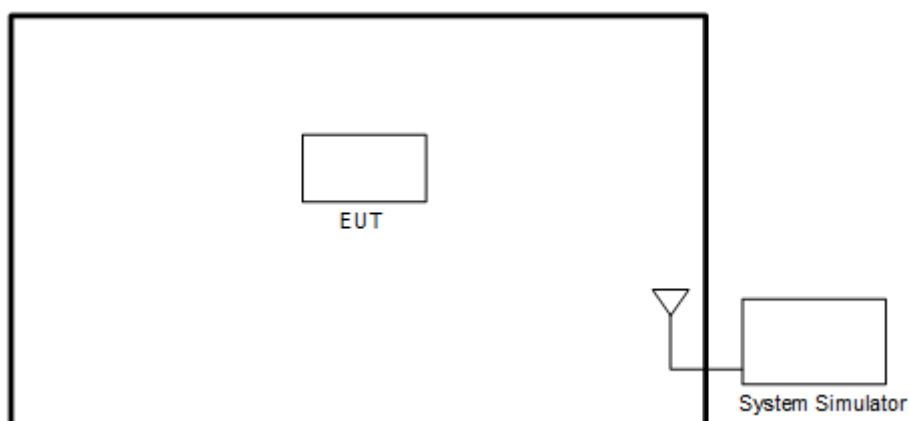
1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V and CDMA BC0.
2. 30 MHz to 19100 MHz for GSM1900 and WCDMA Band II and CDMA BC1.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

| Test Modes    |                                                                                                    |                                                                                                    |
|---------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Band          | Radiated TCs                                                                                       | Conducted TCs                                                                                      |
| GSM 850       | <ul style="list-style-type: none"> <li>■ GPRS class 8 Link</li> <li>■ EDGE class 8 Link</li> </ul> | <ul style="list-style-type: none"> <li>■ GPRS class 8 Link</li> <li>■ EDGE class 8 Link</li> </ul> |
| GSM 1900      | <ul style="list-style-type: none"> <li>■ GPRS class 8 Link</li> <li>■ EDGE class 8 Link</li> </ul> | <ul style="list-style-type: none"> <li>■ GPRS class 8 Link</li> <li>■ EDGE class 8 Link</li> </ul> |
| WCDMA Band V  | <ul style="list-style-type: none"> <li>■ RMC 12.2Kbps Link</li> </ul>                              | <ul style="list-style-type: none"> <li>■ RMC 12.2Kbps Link</li> </ul>                              |
| WCDMA Band II | <ul style="list-style-type: none"> <li>■ RMC 12.2Kbps Link</li> </ul>                              | <ul style="list-style-type: none"> <li>■ RMC 12.2Kbps Link</li> </ul>                              |
| CDMA BC0      | <ul style="list-style-type: none"> <li>■ 1xRTT Link</li> </ul>                                     | <ul style="list-style-type: none"> <li>■ 1xRTT Link</li> </ul>                                     |
| CDMA BC1      | <ul style="list-style-type: none"> <li>■ 1xRTT Link</li> </ul>                                     | <ul style="list-style-type: none"> <li>■ 1xRTT Link</li> </ul>                                     |

### 2.2 Connection Diagram of Test System





## 2.3 Support Unit used in test configuration

| Item | Equipment                | Trade Name                 | Model No.       | FCC ID       | Data Cable                | Power Cord                                             |
|------|--------------------------|----------------------------|-----------------|--------------|---------------------------|--------------------------------------------------------|
| 1.   | System Simulator         | R&S                        | CMU 200         | N/A          | N/A                       | Unshielded, 1.8 m                                      |
| 2.   | CN75A/CN75E Vehicle dock | intermec technologies corp | 1000AV01        | FCC DoC      | NA                        | NA                                                     |
| 3.   | CK75 Vehicle dock        | intermec technologies corp | 1001AV01        | FCC DoC      | NA                        | NA                                                     |
| 4.   | car charger              | intermec technologies corp | 852-057-005     | Verification | NA                        | Unshielded, 1.2m                                       |
| 5.   | Snap-on(LAN)             | intermec technologies corp | 1000AA01        | FCC DoC      | NA                        | NA                                                     |
| 6.   | Snap-on(RS232)           | intermec technologies corp | 1000AA03        | FCC DoC      | NA                        | NA                                                     |
| 7.   | Snap-On (VoCollect)      | intermec technologies corp | 1000AA05        | FCC DoC      | NA                        | NA                                                     |
| 8.   | Snap-on (USB)            | intermec technologies corp | 1000AA07        | FCC DoC      | NA                        | NA                                                     |
| 9.   | Snap-on adapter          | intermec technologies corp | 9001AE01        | FCC DoC      | NA                        | AC IP:<br>Unshielded, 1.8m<br>DC OP:<br>Shielded, 1.8m |
| 10.  | Earphone                 | Honeywell                  | Vocollect SR-20 | FCC DoC      | 1.1 meter, shielded cable | NA                                                     |
| 11.  | USB Cable                | intermec technologies corp | VE011-2018      | FCC DoC      | NA                        | 1.4 meter, shielded cable, w/t ferrite core            |
| 12.  | Battery                  | intermec technologies corp | 1000AB02        | NA           | NA                        | NA                                                     |



## 2.4 Measurement Results Explanation Example

**For all conducted test items:**

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

The following shows an offset computation example with RF cable loss 4.2 dB and a 10dB attenuator.

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

### 3 Conducted Test Result

#### 3.1 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.2 Test Setup

##### 3.2.1 Conducted Output Power



##### 3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



##### 3.2.3 Frequency Stability



### 3.3 Test Result of Conducted Test

Please refer to Appendix A.

### 3.4 Conducted Output Power and ERP/EIRP

#### 3.4.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for GSM850, WCDMA Band V and CDMA2000 BC0.

The EIRP of mobile transmitters must not exceed 2 Watts for GSM1900, WCDMA Band II and CDMA2000 BC1.

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ ,  $ERP = EIRP - 2.15$ , where

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

$L_C$  = signal attenuation in the connecting cable between the transmitter and antenna in dB

#### 3.4.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.



## **3.5 Peak-to-Average Ratio**

### **3.5.1 Description of the PAR Measurement**

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

### **3.5.2 Test Procedures**

1. The testing follows FCC KDB 971168 D01 v02r02 Section 5.7.1.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. Set EUT to transmit at maximum output power.
4. When the duty cycle is less than 98%, then signal gating will be implemented on the spectrum analyzer by triggering from the system simulator.
5. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer.  
Record the maximum PAPR level associated with a probability of 0.1%.

## 3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement

### 3.6.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

### 3.6.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 4.2.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.  
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



## **3.7 Conducted Band Edge**

### **3.7.1 Description of Conducted Band Edge Measurement**

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

### **3.7.2 Test Procedures**

1. The testing follows FCC KDB 971168 D01 v02r02 Section 6.0.
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.  
The path loss was compensated to the results for each measurement.
4. The band edges of low and high channels for the highest RF powers were measured.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)]$  (dB)  
 $= [30 + 10\log(P)]$  (dBm) -  $[43 + 10\log(P)]$  (dB)  
 $= -13\text{dBm}$ .

## 3.8 Conducted Spurious Emission

### 3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10<sup>th</sup> harmonic.

### 3.8.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v02r02 Section 6.0.
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)  
=  $P(W) - [43 + 10\log(P)]$  (dB)  
=  $[30 + 10\log(P)]$  (dBm) -  $[43 + 10\log(P)]$  (dB)  
= -13dBm.

### 3.9 Frequency Stability

#### 3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5\text{ppm}$ ) of the center frequency.

#### 3.9.2 Test Procedures for Temperature Variation

1. The testing follows FCC KDB 971168 D01 v02r02 Section 9.0.
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to  $-30^{\circ}\text{C}$  and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in  $10^{\circ}\text{C}$  steps up to  $50^{\circ}\text{C}$ . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

#### 3.9.3 Test Procedures for Voltage Variation

1. The testing follows FCC KDB 971168 D01 v02r02 Section 9.0.
2. The EUT was placed in a temperature chamber at  $20\pm 5^{\circ}\text{C}$  and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

## 4 Radiated Test Items

### 4.1 Measuring Instruments

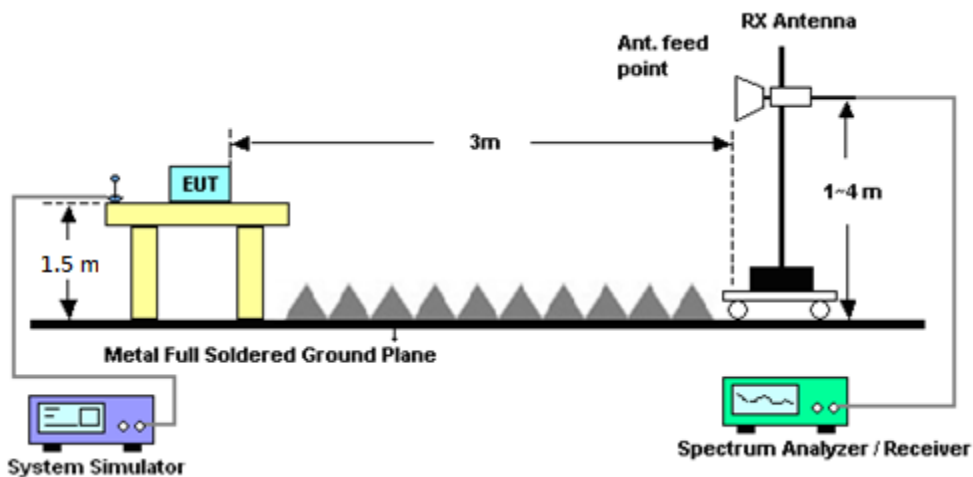
See list of measuring instruments of this test report.

### 4.2 Test Setup

#### 4.2.1 For radiated test from 30MHz to 1GHz



#### 4.2.2 For radiated test above 1GHz



### 4.3 Test Result of Radiated Test

Please refer to Appendix B.

## 4.4 Field Strength of Spurious Radiation Measurement

### 4.4.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### 4.4.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v02r02 Section 5.8 and ANSI / TIA-603-D-2010 Section 2.2.12.
2. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11.  $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
12.  $ERP \text{ (dBm)} = EIRP - 2.15$
13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
14. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$   
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$   
 $= -13\text{dBm}.$



## 5 List of Measuring Equipment

| Instrument                | Manufacturer    | Model No.      | Serial No.     | Characteristics               | Calibration Date | Test Date                     | Due Date      | Remark                |
|---------------------------|-----------------|----------------|----------------|-------------------------------|------------------|-------------------------------|---------------|-----------------------|
| Spectrum Analyzer         | Rohde & Schwarz | FSP30          | 101329         | 9kHz~30GHz                    | Jun. 27, 2016    | Jan. 11, 2017 ~ Jan. 17, 2017 | Jun. 26, 2017 | Conducted (TH03-HY)   |
| Temperature Chamber       | ESPEC           | SU-641         | 92013721       | -30℃ ~70℃                     | Nov. 16, 2016    | Jan. 11, 2017 ~ Jan. 17, 2017 | Nov. 15, 2017 | Conducted (TH03-HY)   |
| Programmable Power Supply | GW Instek       | PSS-2005       | EL883644       | Voltage:0~20V;Current:0~5A    | Nov. 22, 2016    | Jan. 11, 2017 ~ Jan. 17, 2017 | Nov. 21, 2017 | Conducted (TH03-HY)   |
| Base Station(Measu        | Rohde & Schwarz | CMU200         | 117995         | GSM / GPRS / WCDMA / CDMA     | Aug. 03, 2016    | Jan. 11, 2017 ~ Jan. 17, 2017 | Aug. 04, 2017 | Conducted (TH03-HY)   |
| Amplifier                 | SONOMA          | 310N           | 187312         | 9kHz~1GHz                     | Nov. 10, 2016    | Jan. 07, 2017 ~ Jan. 25, 2017 | Nov. 09, 2017 | Radiation (03CH11-HY) |
| Bilog Antenna             | TESEQ           | CBL 6111D&N-6- | 35414&AT-N0602 | 30MHz~1GHz                    | Oct. 15, 2016    | Jan. 07, 2017 ~ Jan. 25, 2017 | Oct. 14, 2017 | Radiation (03CH11-HY) |
| Horn Antenna              | SCHWARZBECK     | BBHA 9120 D    | 9120D-1326     | 1GHz ~ 18GHz                  | Oct. 07, 2016    | Jan. 07, 2017 ~ Jan. 25, 2017 | Oct. 06, 2017 | Radiation (03CH11-HY) |
| Preamplifier              | Keysight        | 83017A         | MY53270080     | 1GHz~26.5GHz                  | Nov. 10, 2016    | Jan. 07, 2017 ~ Jan. 25, 2017 | Nov. 09, 2017 | Radiation (03CH11-HY) |
| Spectrum Analyzer         | Keysight        | N9010A         | MY54200486     | 10Hz ~ 44GHz                  | Oct. 12, 2016    | Jan. 07, 2017 ~ Jan. 25, 2017 | Oct. 11, 2017 | Radiation (03CH11-HY) |
| Controller                | EMEC            | EM 1000        | N/A            | Control Turn table & Ant Mast | N/A              | Jan. 07, 2017 ~ Jan. 25, 2017 | N/A           | Radiation (03CH11-HY) |
| Antenna Mast              | EMEC            | AM-BS-450 0-B  | N/A            | 1~4m                          | N/A              | Jan. 07, 2017 ~ Jan. 25, 2017 | N/A           | Radiation (03CH11-HY) |
| Turn Table                | EMEC            | TT 2000        | N/A            | 0~360 Degree                  | N/A              | Jan. 07, 2017 ~ Jan. 25, 2017 | N/A           | Radiation (03CH11-HY) |
| Preamplifier              | MITEQ           | TTA0204        | 1872107        | 2GHz~40GHz                    | Feb. 15, 2016    | Jan. 07, 2017 ~ Jan. 25, 2017 | Feb. 14, 2017 | Radiation (03CH11-HY) |



## 6 Uncertainty of Evaluation

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                         |     |
|-------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.2 |
|-------------------------------------------------------------------------|-----|

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

|                                                                         |     |
|-------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.5 |
|-------------------------------------------------------------------------|-----|



## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power)

| Conducted Power (*Unit: dBm) |        |       |       |         |       |        |
|------------------------------|--------|-------|-------|---------|-------|--------|
| Band                         | GSM850 |       |       | GSM1900 |       |        |
| Channel                      | 128    | 189   | 251   | 512     | 661   | 810    |
| Frequency                    | 824.2  | 836.4 | 848.8 | 1850.2  | 1880  | 1909.8 |
| GSM                          | 32.96  | 32.95 | 32.98 | 29.8    | 30.05 | 29.73  |
| GPRS class 8                 | 32.98  | 32.96 | 32.99 | 29.86   | 30.06 | 29.74  |
| GPRS class 10                | 29.84  | 29.84 | 29.9  | 26.85   | 26.48 | 26.7   |
| GPRS class 11                | 28.08  | 27.71 | 27.95 | 24.92   | 24.57 | 24.42  |
| GPRS class 12                | 26.72  | 26.34 | 26.65 | 23.37   | 23.14 | 22.87  |
| EGPRS class 8                | 26.71  | 26.47 | 26.6  | 25.86   | 25.59 | 25.37  |
| EGPRS class 10               | 23.66  | 23.39 | 23.52 | 22.7    | 22.5  | 22.27  |
| EGPRS class 11               | 22.14  | 21.8  | 21.96 | 21.25   | 21.05 | 20.8   |
| EGPRS class 12               | 21.05  | 20.78 | 20.84 | 19.96   | 19.59 | 19.48  |

| Conducted Power (*Unit: dBm) |              |       |        |               |       |        |
|------------------------------|--------------|-------|--------|---------------|-------|--------|
| Band                         | WCDMA Band V |       |        | WCDMA Band II |       |        |
| Channel                      | 4132         | 4182  | 4233   | 9262          | 9400  | 9538   |
| Frequency                    | 826.4        | 836.4 | 846.6  | 1852.4        | 1880  | 1907.6 |
| RMC 12.2K                    | 23.95        | 24.06 | 23.978 | 23.99         | 24.26 | 24.1   |
| HSDPA Subtest-1              | 23.86        | 24.01 | 23.93  | 23.95         | 24.18 | 24.06  |
| HSDPA Subtest-2              | 23.94        | 24.03 | 23.9   | 23.94         | 24.23 | 24.01  |
| HSDPA Subtest-3              | 23.41        | 23.53 | 23.64  | 23.51         | 23.75 | 23.63  |
| HSDPA Subtest-4              | 23.44        | 23.6  | 23.52  | 23.5          | 23.76 | 23.59  |
| HSUPA Subtest-1              | 23.63        | 23.62 | 22.74  | 23.7          | 23.66 | 23.4   |
| HSUPA Subtest-2              | 22.04        | 22.49 | 22.35  | 22            | 22.5  | 21.96  |
| HSUPA Subtest-3              | 22.6         | 23.09 | 22.53  | 23.11         | 23.22 | 22.69  |
| HSUPA Subtest-4              | 22.42        | 22.5  | 22.41  | 22.44         | 22.48 | 22.43  |
| HSUPA Subtest-5              | 23.8         | 23.92 | 23.78  | 23.88         | 24.17 | 24.06  |



| Conducted Power (*Unit: dBm) |               |        |        |               |       |         |
|------------------------------|---------------|--------|--------|---------------|-------|---------|
| Band                         | CDMA 2000 BC0 |        |        | CDMA 2000 BC1 |       |         |
| Channel                      | 1013          | 384    | 777    | 25            | 600   | 1175    |
| Frequency                    | 824.7         | 836.52 | 848.31 | 1851.25       | 1880  | 1908.75 |
| 1xRTT RC1 SO55               | 23.93         | 24.1   | 23.9   | 23.65         | 23.75 | 23.85   |
| 1xRTT RC3 SO55               | 23.88         | 24.02  | 24.06  | 23.63         | 23.66 | 23.74   |
| 1xRTT RC3 SO32 (+ F-SCH)     | 23.86         | 24     | 23.79  | 23.62         | 23.66 | 23.7    |
| 1xRTT RC3 SO32 (+SCH)        | 23.86         | 24     | 23.82  | 23.61         | 23.62 | 23.73   |
| 1xEVDO RTAP 153.6Kbps        | 23.98         | 24.09  | 24.01  | 23.75         | 23.75 | 23.84   |
| 1xEVDO RETAP 4096Bits        | 23.95         | 24.08  | 23.96  | 23.7          | 23.73 | 23.83   |



## A2. GSM

### Peak-to-Average Ratio

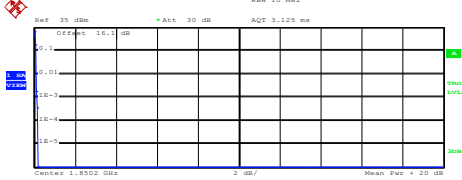
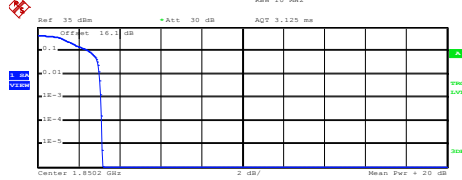
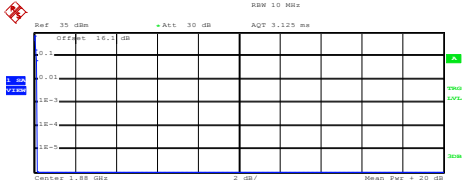
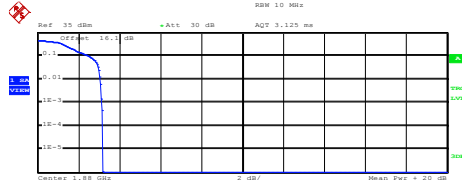
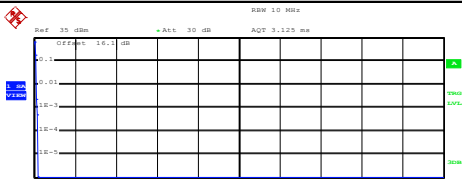
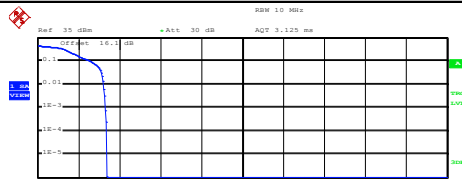
| Mode       | GSM850       |              | Limit: 13dB |
|------------|--------------|--------------|-------------|
| Mod.       | GPRS class 8 | EDGE class 8 | Result      |
| Lowest CH  | 0.16         | 3.40         | PASS        |
| Middle CH  | 0.16         | 3.08         |             |
| Highest CH | 0.12         | 3.04         |             |

| Mode       | GSM1900      |              | Limit: 13dB |
|------------|--------------|--------------|-------------|
| Mod.       | GPRS class 8 | EDGE class 8 | Result      |
| Lowest CH  | 0.16         | 3.08         | PASS        |
| Middle CH  | 0.16         | 3.16         |             |
| Highest CH | 0.16         | 3.32         |             |



| GSM850 (GPRS class 8)                                                                                                                                                                                                                                                                                                                                            |  | GSM850 (EDGE class 8)                                                                                                                                                                                                                                                                                                                                            |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Lowest Channel                                                                                                                                                                                                                                                                                                                                                   |  | Lowest Channel                                                                                                                                                                                                                                                                                                                                                   |  |
| <p>Ref: 35 dBm    Att: 30 dB    AGT: 3.125 ms</p> <p>Center 824.2 MHz    2 dB/    Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 31.92 dBm<br/>Peak 32.05 dBm<br/>Crest 0.13 dB</p> <p>10 % 0.12 dB<br/>1 % 0.16 dB<br/>.1 % 0.16 dB<br/>.01 % 0.16 dB</p> <p>Date: 11.JAN.2017 18:59:43</p> |  | <p>Ref: 35 dBm    Att: 30 dB    AGT: 3.125 ms</p> <p>Center 824.2 MHz    2 dB/    Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 25.74 dBm<br/>Peak 29.16 dBm<br/>Crest 3.42 dB</p> <p>10 % 2.68 dB<br/>1 % 3.32 dB<br/>.1 % 3.40 dB<br/>.01 % 3.44 dB</p> <p>Date: 11.JAN.2017 19:14:12</p> |  |
| Middle Channel                                                                                                                                                                                                                                                                                                                                                   |  | Middle Channel                                                                                                                                                                                                                                                                                                                                                   |  |
| <p>Ref: 35 dBm    Att: 30 dB    AGT: 3.125 ms</p> <p>Center 836.4 MHz    2 dB/    Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 31.97 dBm<br/>Peak 32.12 dBm<br/>Crest 0.16 dB</p> <p>10 % 0.08 dB<br/>1 % 0.16 dB<br/>.1 % 0.16 dB<br/>.01 % 0.16 dB</p> <p>Date: 11.JAN.2017 19:00:18</p> |  | <p>Ref: 35 dBm    Att: 30 dB    AGT: 3.125 ms</p> <p>Center 836.4 MHz    2 dB/    Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 25.99 dBm<br/>Peak 29.09 dBm<br/>Crest 3.10 dB</p> <p>10 % 2.52 dB<br/>1 % 3.00 dB<br/>.1 % 3.08 dB<br/>.01 % 3.12 dB</p> <p>Date: 11.JAN.2017 19:14:43</p> |  |
| Highest Channel                                                                                                                                                                                                                                                                                                                                                  |  | Highest Channel                                                                                                                                                                                                                                                                                                                                                  |  |
| <p>Ref: 35 dBm    Att: 30 dB    AGT: 3.125 ms</p> <p>Center 848.8 MHz    2 dB/    Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 32.01 dBm<br/>Peak 32.19 dBm<br/>Crest 0.18 dB</p> <p>10 % 0.12 dB<br/>1 % 0.12 dB<br/>.1 % 0.12 dB<br/>.01 % 0.12 dB</p> <p>Date: 11.JAN.2017 19:00:45</p> |  | <p>Ref: 35 dBm    Att: 30 dB    AGT: 3.125 ms</p> <p>Center 848.8 MHz    2 dB/    Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 25.95 dBm<br/>Peak 29.09 dBm<br/>Crest 3.14 dB</p> <p>10 % 2.40 dB<br/>1 % 2.96 dB<br/>.1 % 3.04 dB<br/>.01 % 3.08 dB</p> <p>Date: 11.JAN.2017 19:15:30</p> |  |

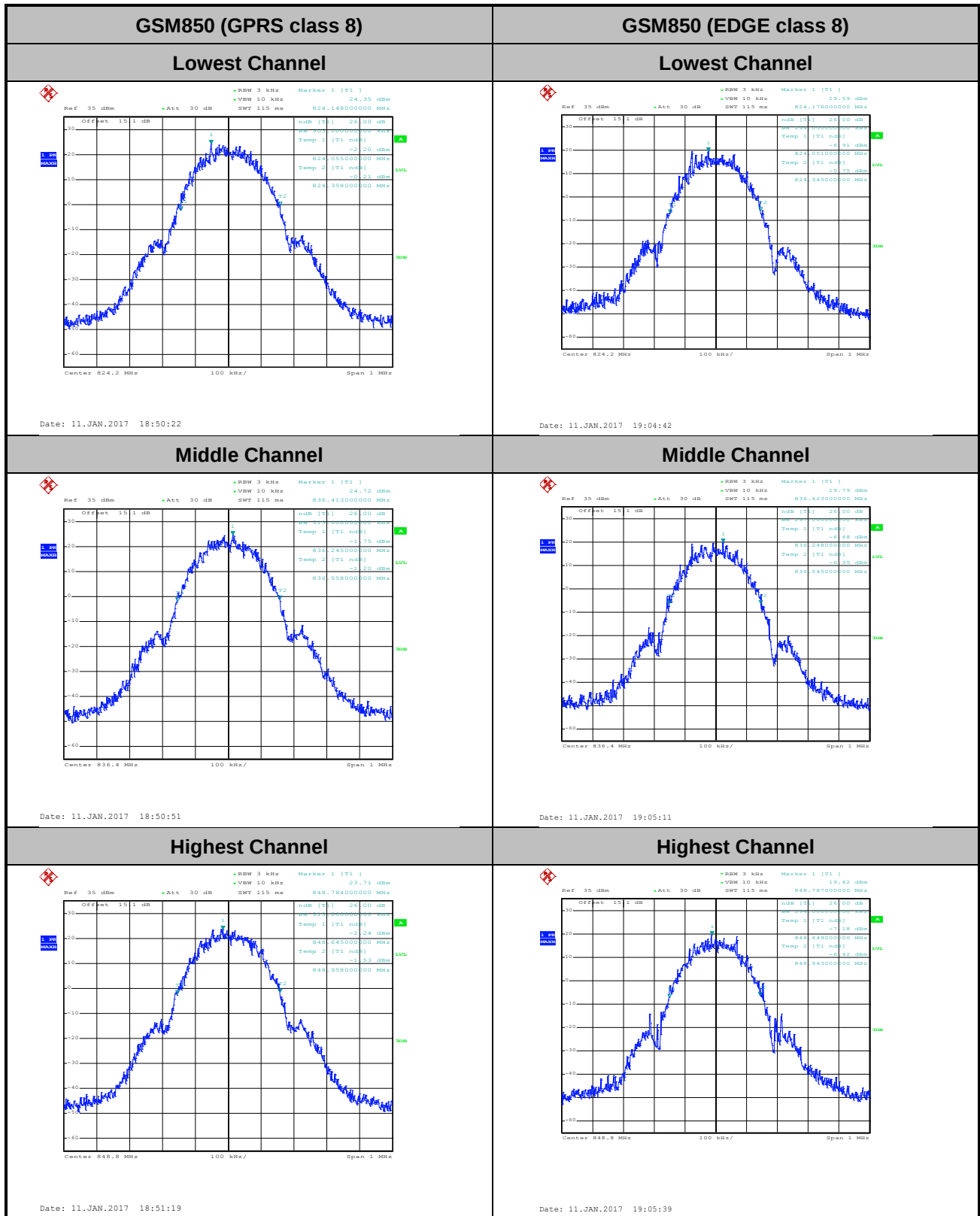


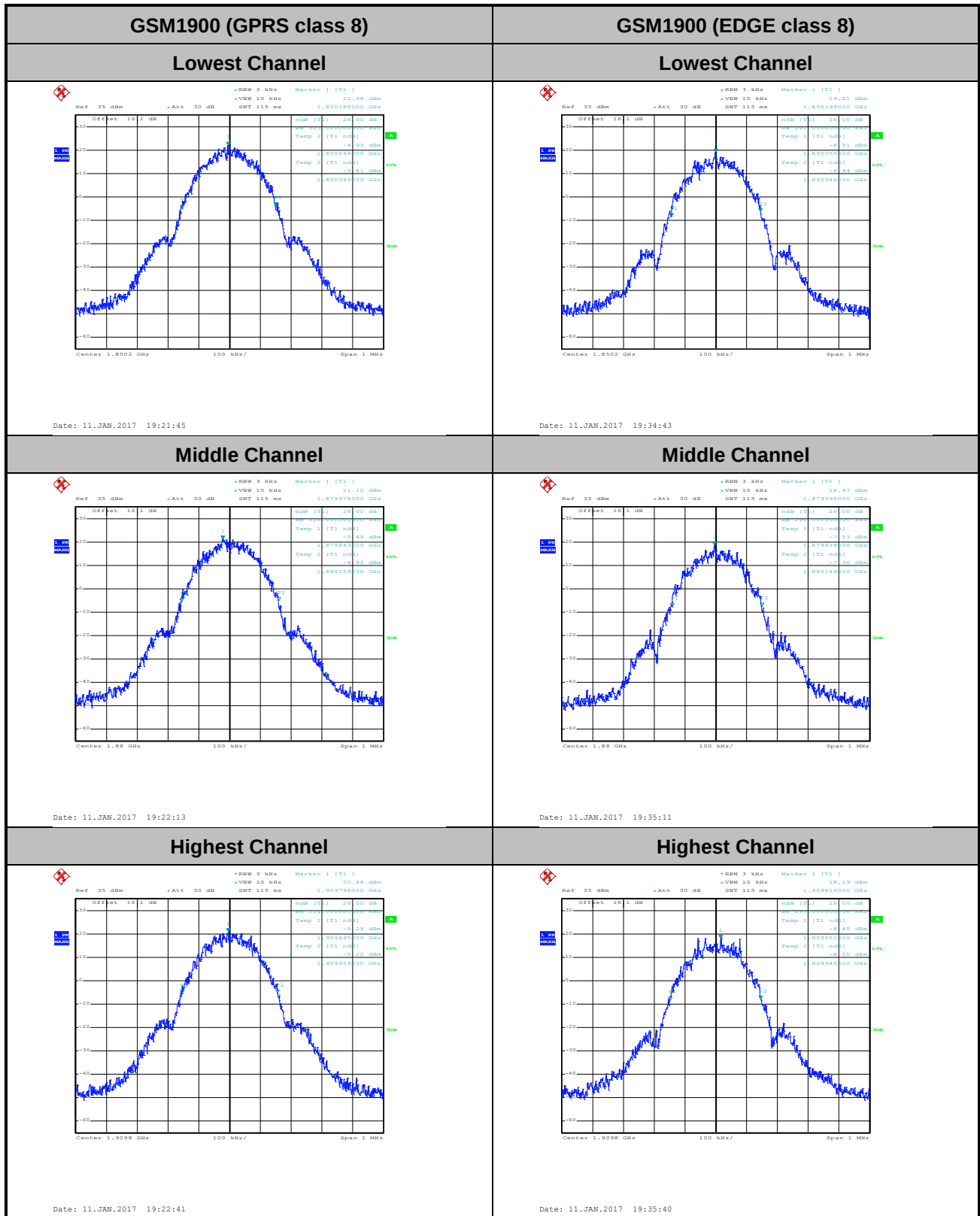
| GSM1900 (GPRS class 8)                                                                                                                                                                                                                                                                                                                                           |  | GSM1900 (EDGE class 8)                                                                                                                                                                                                                                                                                                                                            |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Lowest Channel                                                                                                                                                                                                                                                                                                                                                   |  | Lowest Channel                                                                                                                                                                                                                                                                                                                                                    |  |
|  <p>Ref: 35 dBm<br/>Offset: 16.1 dB<br/>Att: 30 dB<br/>AQT: 3.125 ms<br/>Center: 1.8502 GHz<br/>2 dB/<br/>Mean: 29.06 dBm<br/>Peak: 29.23 dBm<br/>Crest: 0.17 dB</p> <p>10 % 0.08 dB<br/>1 % 0.12 dB<br/>.1 % 0.16 dB<br/>.01 % 0.20 dB</p> <p>Date: 11.JAN.2017 19:31:04</p>   |  |  <p>Ref: 35 dBm<br/>Offset: 16.1 dB<br/>Att: 30 dB<br/>AQT: 3.125 ms<br/>Center: 1.8502 GHz<br/>2 dB/<br/>Mean: 25.37 dBm<br/>Peak: 28.52 dBm<br/>Crest: 3.16 dB</p> <p>10 % 2.52 dB<br/>1 % 3.00 dB<br/>.1 % 3.08 dB<br/>.01 % 3.12 dB</p> <p>Date: 11.JAN.2017 19:43:45</p>   |  |
| Middle Channel                                                                                                                                                                                                                                                                                                                                                   |  | Middle Channel                                                                                                                                                                                                                                                                                                                                                    |  |
|  <p>Ref: 35 dBm<br/>Offset: 16.1 dB<br/>Att: 30 dB<br/>AQT: 3.125 ms<br/>Center: 1.85 GHz<br/>2 dB/<br/>Mean: 29.02 dBm<br/>Peak: 29.16 dBm<br/>Crest: 0.14 dB</p> <p>10 % 0.12 dB<br/>1 % 0.16 dB<br/>.1 % 0.16 dB<br/>.01 % 0.16 dB</p> <p>Date: 11.JAN.2017 19:31:29</p>    |  |  <p>Ref: 35 dBm<br/>Offset: 16.1 dB<br/>Att: 30 dB<br/>AQT: 3.125 ms<br/>Center: 1.85 GHz<br/>2 dB/<br/>Mean: 24.93 dBm<br/>Peak: 28.10 dBm<br/>Crest: 3.17 dB</p> <p>10 % 2.52 dB<br/>1 % 3.08 dB<br/>.1 % 3.16 dB<br/>.01 % 3.20 dB</p> <p>Date: 11.JAN.2017 19:44:16</p>    |  |
| Highest Channel                                                                                                                                                                                                                                                                                                                                                  |  | Highest Channel                                                                                                                                                                                                                                                                                                                                                   |  |
|  <p>Ref: 35 dBm<br/>Offset: 16.1 dB<br/>Att: 30 dB<br/>AQT: 3.125 ms<br/>Center: 1.9098 GHz<br/>2 dB/<br/>Mean: 28.85 dBm<br/>Peak: 29.02 dBm<br/>Crest: 0.17 dB</p> <p>10 % 0.08 dB<br/>1 % 0.12 dB<br/>.1 % 0.16 dB<br/>.01 % 0.20 dB</p> <p>Date: 11.JAN.2017 19:32:13</p> |  |  <p>Ref: 35 dBm<br/>Offset: 16.1 dB<br/>Att: 30 dB<br/>AQT: 3.125 ms<br/>Center: 1.9098 GHz<br/>2 dB/<br/>Mean: 24.59 dBm<br/>Peak: 27.96 dBm<br/>Crest: 3.37 dB</p> <p>10 % 2.60 dB<br/>1 % 3.24 dB<br/>.1 % 3.32 dB<br/>.01 % 3.40 dB</p> <p>Date: 11.JAN.2017 19:45:05</p> |  |

**26dB Bandwidth**

| Mode       | GSM850       |              |
|------------|--------------|--------------|
| Mod.       | GPRS class 8 | EDGE class 8 |
| Lowest CH  | 0.303        | 0.294        |
| Middle CH  | 0.313        | 0.297        |
| Highest CH | 0.313        | 0.294        |

| Mode       | GSM1900      |              |
|------------|--------------|--------------|
| Mod.       | GPRS class 8 | EDGE class 8 |
| Lowest CH  | 0.303        | 0.291        |
| Middle CH  | 0.316        | 0.291        |
| Highest CH | 0.311        | 0.295        |

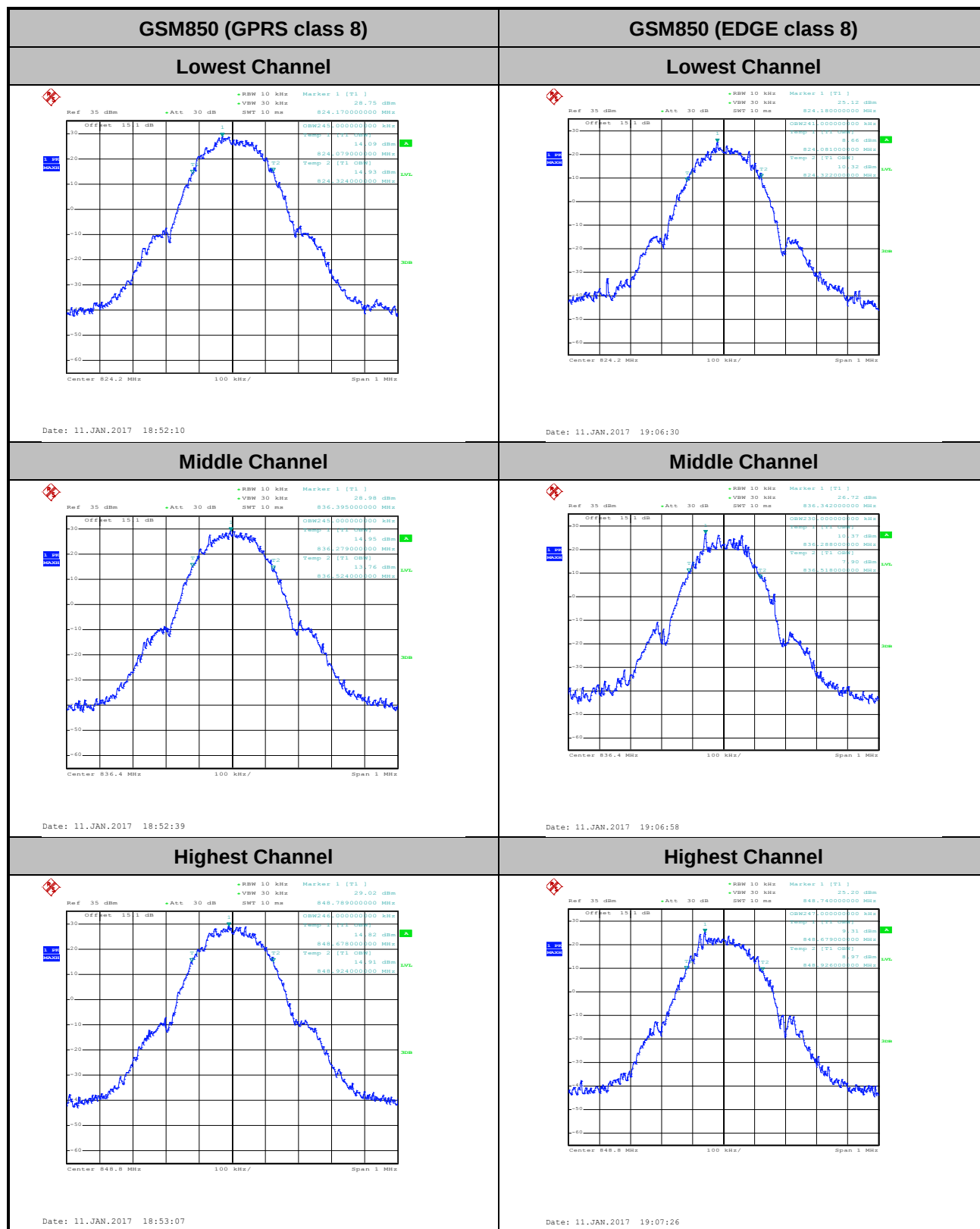


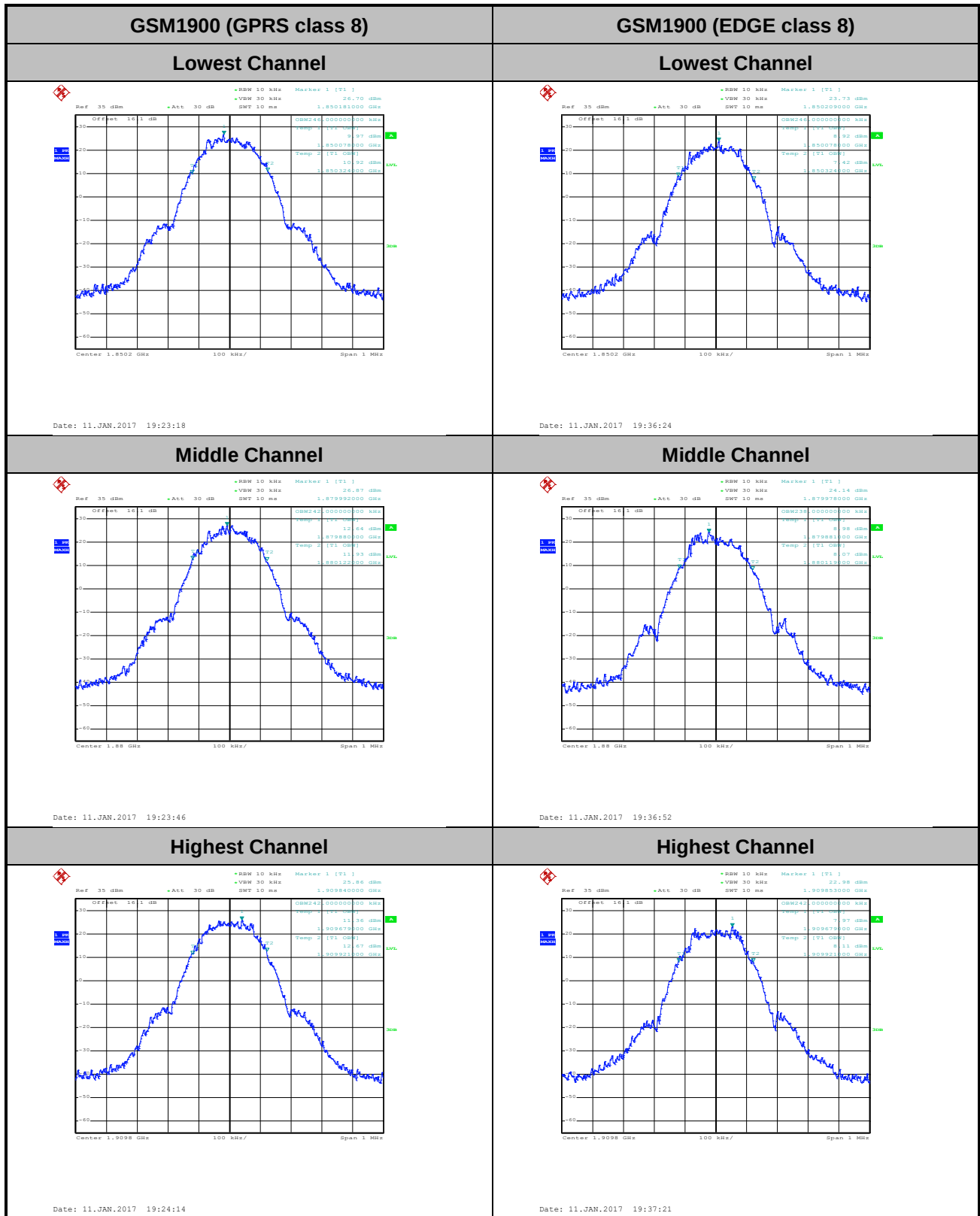


**Occupied Bandwidth**

| Mode       | GSM850       |              |
|------------|--------------|--------------|
| Mod.       | GPRS class 8 | EDGE class 8 |
| Lowest CH  | 0.245        | 0.241        |
| Middle CH  | 0.245        | 0.230        |
| Highest CH | 0.246        | 0.247        |

| Mode       | GSM1900      |              |
|------------|--------------|--------------|
| Mod.       | GPRS class 8 | EDGE class 8 |
| Lowest CH  | 0.246        | 0.246        |
| Middle CH  | 0.242        | 0.238        |
| Highest CH | 0.242        | 0.242        |



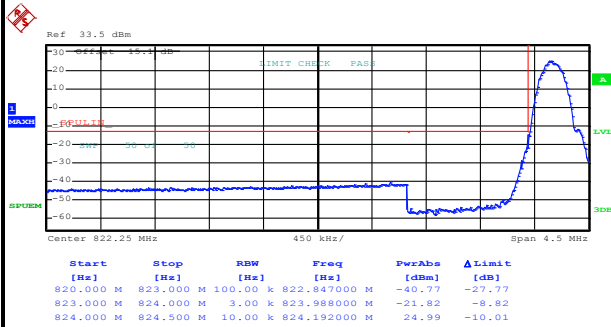




## Conducted Band Edge

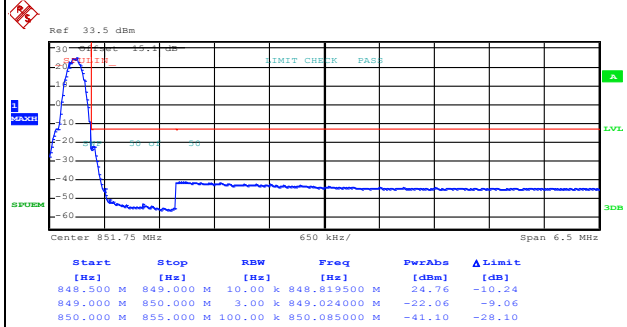
### GSM850 (GPRS class 8)

#### Lowest Band Edge



Date: 11.JAN.2017 18:54:41

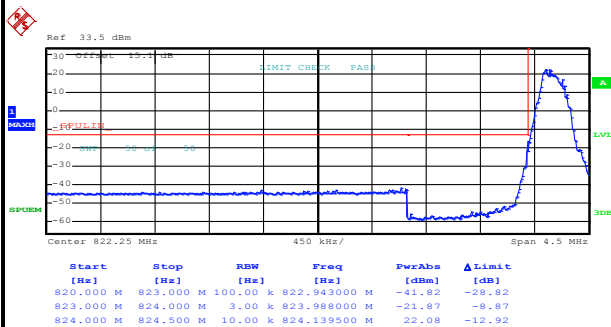
#### Highest Band Edge



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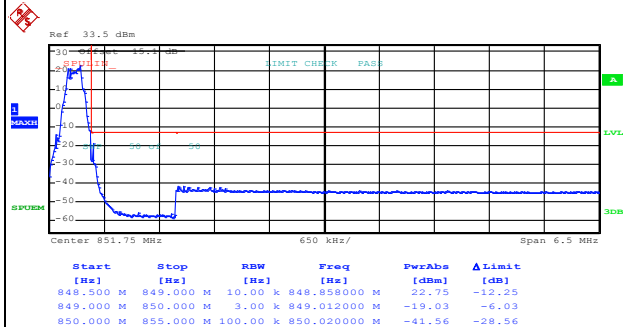
### GSM850 (EDGE class 8)

#### Lowest Band Edge



Date: 11.JAN.2017 19:09:22

#### Highest Band Edge

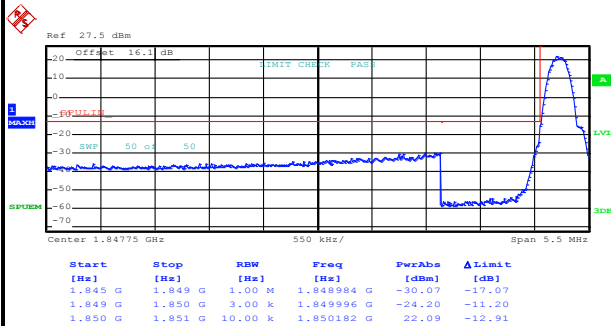


Date: 11.JAN.2017 19:10:50



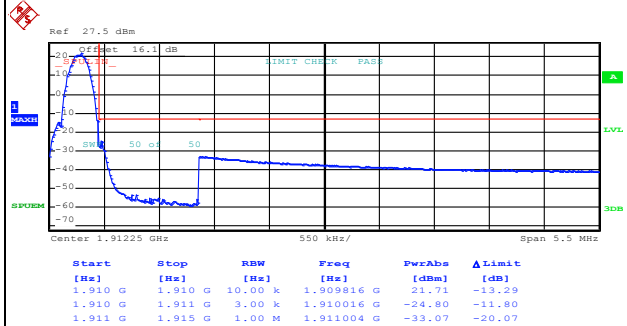
## GSM1900 (GPRS class 8)

## Lowest Band Edge



Date: 11.JAN.2017 19:25:53

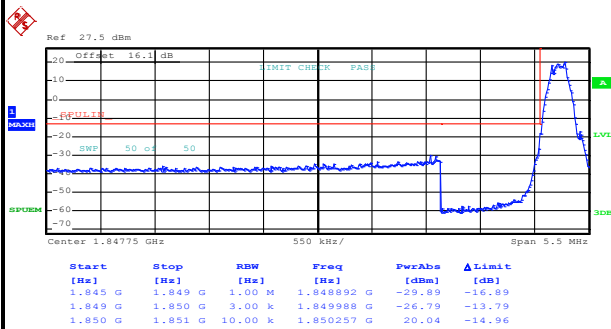
## Highest Band Edge



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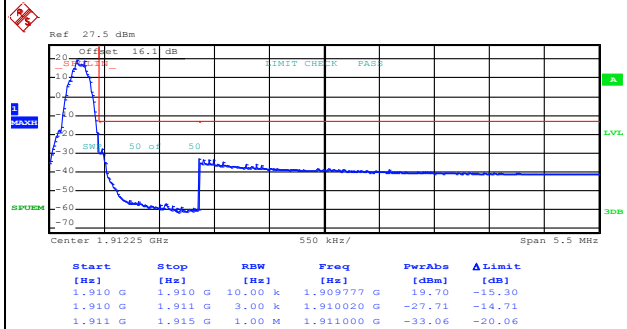
## GSM1900 (EDGE class 8)

## Lowest Band Edge



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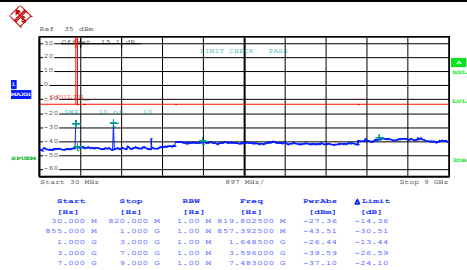
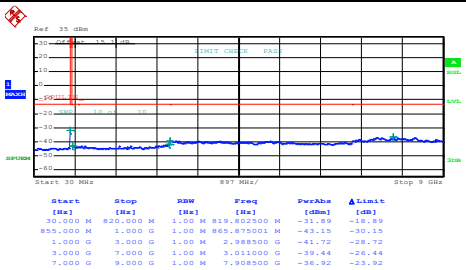
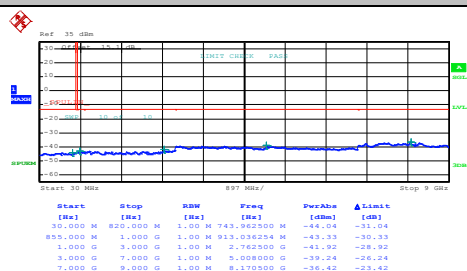
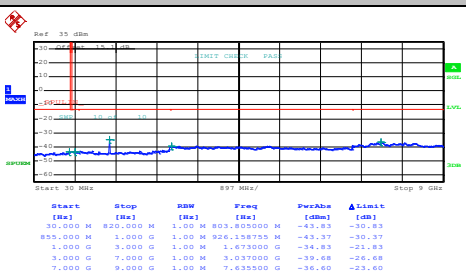
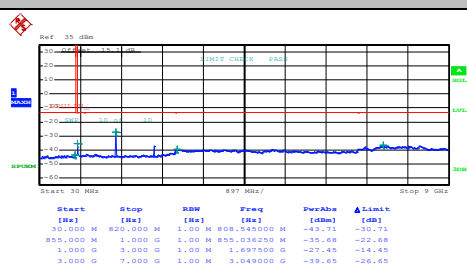
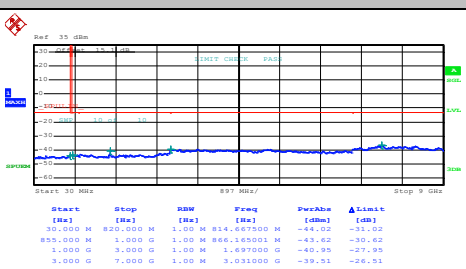
## Highest Band Edge

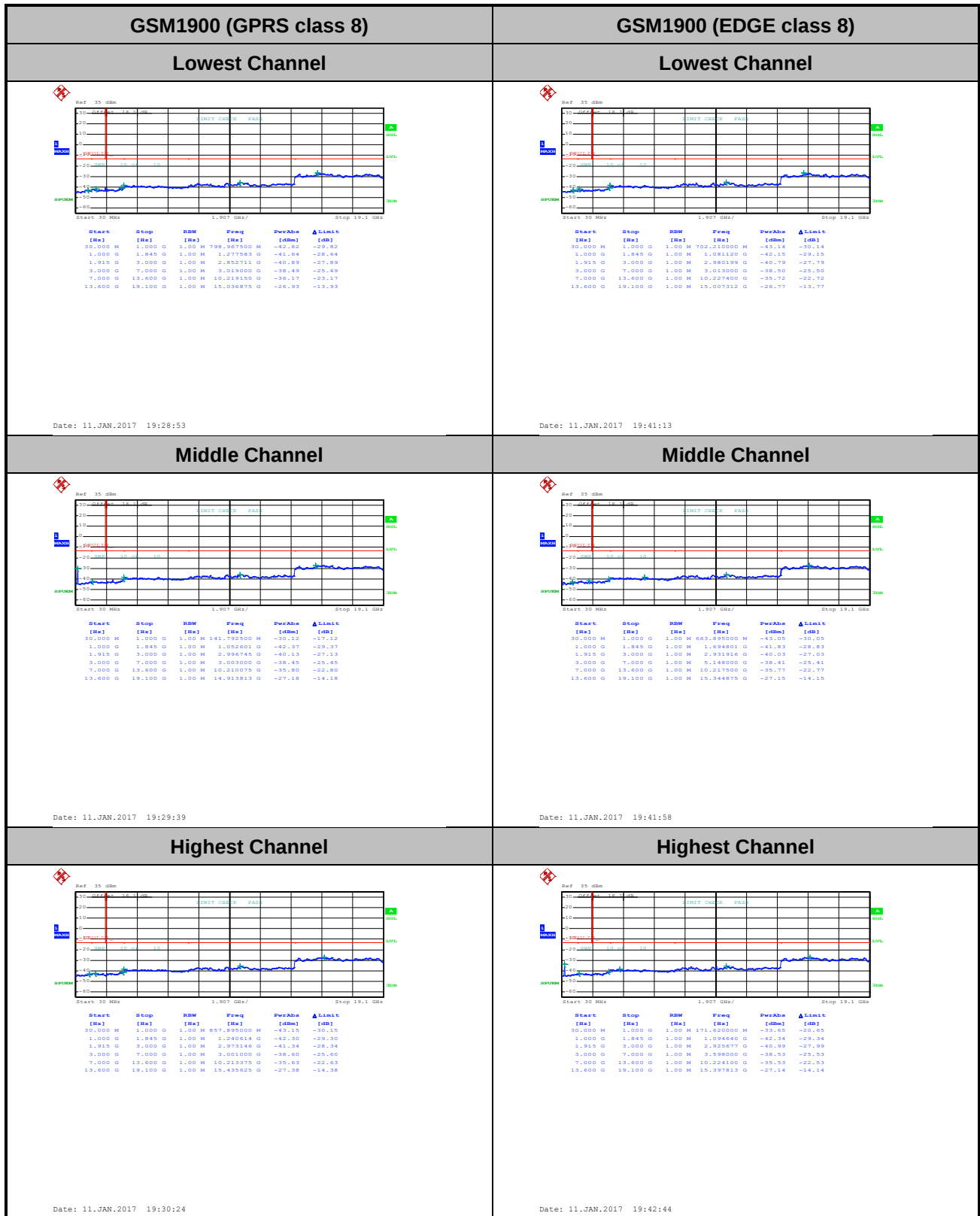


Date: 11.JAN.2017 19:40:19



# Conducted Spurious Emission

| GSM850 (GPRS class 8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | GSM850 (EDGE class 8) |              |        |        |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------|--------------|--------|--------|--------|--------|------|------|------|------|-------|------|----------|-----------|--------|--------------|--------|--------|-----------|---------|--------|--------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|------|-----|------|--------|--------|------|------|------|------|-------|------|----------|-----------|--------|--------------|--------|--------|-----------|---------|--------|--------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|
| Lowest Channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Lowest Channel        |              |        |        |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
|  <table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbn</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30,000 M</td><td>820,000 M</td><td>1,00 M</td><td>819,802500 M</td><td>-27,36</td><td>-14,36</td></tr><tr><td>855,000 M</td><td>1,000 G</td><td>1,00 M</td><td>857,392500 M</td><td>-43,51</td><td>-30,51</td></tr><tr><td>1,000 G</td><td>3,000 G</td><td>1,00 M</td><td>1,648500 G</td><td>-26,44</td><td>-23,44</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1,00 M</td><td>3,596000 G</td><td>-39,59</td><td>-26,59</td></tr><tr><td>7,000 G</td><td>9,000 G</td><td>1,00 M</td><td>7,483000 G</td><td>-37,10</td><td>-24,10</td></tr></table> <p>Date: 11.JAN.2017 18:57:31</p>   |           | Start                 | Stop         | RBW    | Freq   | PerAbn | ΔLimit | [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | 30,000 M | 820,000 M | 1,00 M | 819,802500 M | -27,36 | -14,36 | 855,000 M | 1,000 G | 1,00 M | 857,392500 M | -43,51 | -30,51 | 1,000 G | 3,000 G | 1,00 M | 1,648500 G | -26,44 | -23,44 | 3,000 G | 7,000 G | 1,00 M | 3,596000 G | -39,59 | -26,59 | 7,000 G | 9,000 G | 1,00 M | 7,483000 G | -37,10 | -24,10 |  <table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbn</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30,000 M</td><td>820,000 M</td><td>1,00 M</td><td>819,802500 M</td><td>-31,89</td><td>-18,89</td></tr><tr><td>855,000 M</td><td>1,000 G</td><td>1,00 M</td><td>855,875001 M</td><td>-43,15</td><td>-30,15</td></tr><tr><td>1,000 G</td><td>3,000 G</td><td>1,00 M</td><td>2,988500 G</td><td>-41,72</td><td>-28,72</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1,00 M</td><td>3,011000 G</td><td>-39,44</td><td>-26,44</td></tr><tr><td>7,000 G</td><td>9,000 G</td><td>1,00 M</td><td>7,908500 G</td><td>-36,92</td><td>-23,92</td></tr></table> <p>Date: 11.JAN.2017 19:11:46</p>   |  | Start | Stop | RBW | Freq | PerAbn | ΔLimit | [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | 30,000 M | 820,000 M | 1,00 M | 819,802500 M | -31,89 | -18,89 | 855,000 M | 1,000 G | 1,00 M | 855,875001 M | -43,15 | -30,15 | 1,000 G | 3,000 G | 1,00 M | 2,988500 G | -41,72 | -28,72 | 3,000 G | 7,000 G | 1,00 M | 3,011000 G | -39,44 | -26,44 | 7,000 G | 9,000 G | 1,00 M | 7,908500 G | -36,92 | -23,92 |
| Start                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Stop      | RBW                   | Freq         | PerAbn | ΔLimit |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| [Hz]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | [Hz]      | [Hz]                  | [Hz]         | [dBm]  | [dB]   |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 30,000 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 820,000 M | 1,00 M                | 819,802500 M | -27,36 | -14,36 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 855,000 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1,000 G   | 1,00 M                | 857,392500 M | -43,51 | -30,51 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 1,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3,000 G   | 1,00 M                | 1,648500 G   | -26,44 | -23,44 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 3,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7,000 G   | 1,00 M                | 3,596000 G   | -39,59 | -26,59 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 7,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9,000 G   | 1,00 M                | 7,483000 G   | -37,10 | -24,10 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| Start                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Stop      | RBW                   | Freq         | PerAbn | ΔLimit |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| [Hz]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | [Hz]      | [Hz]                  | [Hz]         | [dBm]  | [dB]   |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 30,000 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 820,000 M | 1,00 M                | 819,802500 M | -31,89 | -18,89 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 855,000 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1,000 G   | 1,00 M                | 855,875001 M | -43,15 | -30,15 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 1,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3,000 G   | 1,00 M                | 2,988500 G   | -41,72 | -28,72 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 3,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7,000 G   | 1,00 M                | 3,011000 G   | -39,44 | -26,44 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 7,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9,000 G   | 1,00 M                | 7,908500 G   | -36,92 | -23,92 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| Middle Channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Middle Channel        |              |        |        |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
|  <table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbn</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30,000 M</td><td>820,000 M</td><td>1,00 M</td><td>743,962500 M</td><td>-44,04</td><td>-31,04</td></tr><tr><td>855,000 M</td><td>1,000 G</td><td>1,00 M</td><td>913,036254 M</td><td>-43,33</td><td>-30,33</td></tr><tr><td>1,000 G</td><td>3,000 G</td><td>1,00 M</td><td>2,762500 G</td><td>-41,92</td><td>-28,92</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1,00 M</td><td>5,008000 G</td><td>-39,24</td><td>-26,24</td></tr><tr><td>7,000 G</td><td>9,000 G</td><td>1,00 M</td><td>8,170500 G</td><td>-36,42</td><td>-23,42</td></tr></table> <p>Date: 11.JAN.2017 18:58:17</p>  |           | Start                 | Stop         | RBW    | Freq   | PerAbn | ΔLimit | [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | 30,000 M | 820,000 M | 1,00 M | 743,962500 M | -44,04 | -31,04 | 855,000 M | 1,000 G | 1,00 M | 913,036254 M | -43,33 | -30,33 | 1,000 G | 3,000 G | 1,00 M | 2,762500 G | -41,92 | -28,92 | 3,000 G | 7,000 G | 1,00 M | 5,008000 G | -39,24 | -26,24 | 7,000 G | 9,000 G | 1,00 M | 8,170500 G | -36,42 | -23,42 |  <table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbn</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30,000 M</td><td>820,000 M</td><td>1,00 M</td><td>803,805000 M</td><td>-43,83</td><td>-30,83</td></tr><tr><td>855,000 M</td><td>1,000 G</td><td>1,00 M</td><td>926,158755 M</td><td>-43,37</td><td>-30,37</td></tr><tr><td>1,000 G</td><td>3,000 G</td><td>1,00 M</td><td>1,673000 G</td><td>-34,83</td><td>-21,83</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1,00 M</td><td>3,037000 G</td><td>-39,68</td><td>-26,68</td></tr><tr><td>7,000 G</td><td>9,000 G</td><td>1,00 M</td><td>7,635500 G</td><td>-36,40</td><td>-23,40</td></tr></table> <p>Date: 11.JAN.2017 19:12:32</p>  |  | Start | Stop | RBW | Freq | PerAbn | ΔLimit | [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | 30,000 M | 820,000 M | 1,00 M | 803,805000 M | -43,83 | -30,83 | 855,000 M | 1,000 G | 1,00 M | 926,158755 M | -43,37 | -30,37 | 1,000 G | 3,000 G | 1,00 M | 1,673000 G | -34,83 | -21,83 | 3,000 G | 7,000 G | 1,00 M | 3,037000 G | -39,68 | -26,68 | 7,000 G | 9,000 G | 1,00 M | 7,635500 G | -36,40 | -23,40 |
| Start                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Stop      | RBW                   | Freq         | PerAbn | ΔLimit |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| [Hz]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | [Hz]      | [Hz]                  | [Hz]         | [dBm]  | [dB]   |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 30,000 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 820,000 M | 1,00 M                | 743,962500 M | -44,04 | -31,04 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 855,000 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1,000 G   | 1,00 M                | 913,036254 M | -43,33 | -30,33 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 1,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3,000 G   | 1,00 M                | 2,762500 G   | -41,92 | -28,92 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 3,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7,000 G   | 1,00 M                | 5,008000 G   | -39,24 | -26,24 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 7,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9,000 G   | 1,00 M                | 8,170500 G   | -36,42 | -23,42 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| Start                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Stop      | RBW                   | Freq         | PerAbn | ΔLimit |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| [Hz]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | [Hz]      | [Hz]                  | [Hz]         | [dBm]  | [dB]   |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 30,000 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 820,000 M | 1,00 M                | 803,805000 M | -43,83 | -30,83 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 855,000 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1,000 G   | 1,00 M                | 926,158755 M | -43,37 | -30,37 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 1,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3,000 G   | 1,00 M                | 1,673000 G   | -34,83 | -21,83 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 3,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7,000 G   | 1,00 M                | 3,037000 G   | -39,68 | -26,68 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 7,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9,000 G   | 1,00 M                | 7,635500 G   | -36,40 | -23,40 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| Highest Channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Highest Channel       |              |        |        |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
|  <table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbn</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30,000 M</td><td>820,000 M</td><td>1,00 M</td><td>808,545000 M</td><td>-43,71</td><td>-30,71</td></tr><tr><td>855,000 M</td><td>1,000 G</td><td>1,00 M</td><td>855,036250 M</td><td>-35,68</td><td>-22,68</td></tr><tr><td>1,000 G</td><td>3,000 G</td><td>1,00 M</td><td>1,697500 G</td><td>-27,45</td><td>-24,45</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1,00 M</td><td>3,049000 G</td><td>-39,65</td><td>-26,65</td></tr><tr><td>7,000 G</td><td>9,000 G</td><td>1,00 M</td><td>7,564500 G</td><td>-36,74</td><td>-23,74</td></tr></table> <p>Date: 11.JAN.2017 18:59:02</p> |           | Start                 | Stop         | RBW    | Freq   | PerAbn | ΔLimit | [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | 30,000 M | 820,000 M | 1,00 M | 808,545000 M | -43,71 | -30,71 | 855,000 M | 1,000 G | 1,00 M | 855,036250 M | -35,68 | -22,68 | 1,000 G | 3,000 G | 1,00 M | 1,697500 G | -27,45 | -24,45 | 3,000 G | 7,000 G | 1,00 M | 3,049000 G | -39,65 | -26,65 | 7,000 G | 9,000 G | 1,00 M | 7,564500 G | -36,74 | -23,74 |  <table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbn</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30,000 M</td><td>820,000 M</td><td>1,00 M</td><td>814,667500 M</td><td>-44,02</td><td>-31,02</td></tr><tr><td>855,000 M</td><td>1,000 G</td><td>1,00 M</td><td>866,165001 M</td><td>-43,62</td><td>-30,62</td></tr><tr><td>1,000 G</td><td>3,000 G</td><td>1,00 M</td><td>1,657000 G</td><td>-40,50</td><td>-27,50</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1,00 M</td><td>3,031000 G</td><td>-39,51</td><td>-26,51</td></tr><tr><td>7,000 G</td><td>9,000 G</td><td>1,00 M</td><td>7,646000 G</td><td>-36,88</td><td>-23,88</td></tr></table> <p>Date: 11.JAN.2017 19:13:17</p> |  | Start | Stop | RBW | Freq | PerAbn | ΔLimit | [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | 30,000 M | 820,000 M | 1,00 M | 814,667500 M | -44,02 | -31,02 | 855,000 M | 1,000 G | 1,00 M | 866,165001 M | -43,62 | -30,62 | 1,000 G | 3,000 G | 1,00 M | 1,657000 G | -40,50 | -27,50 | 3,000 G | 7,000 G | 1,00 M | 3,031000 G | -39,51 | -26,51 | 7,000 G | 9,000 G | 1,00 M | 7,646000 G | -36,88 | -23,88 |
| Start                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Stop      | RBW                   | Freq         | PerAbn | ΔLimit |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| [Hz]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | [Hz]      | [Hz]                  | [Hz]         | [dBm]  | [dB]   |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 30,000 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 820,000 M | 1,00 M                | 808,545000 M | -43,71 | -30,71 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 855,000 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1,000 G   | 1,00 M                | 855,036250 M | -35,68 | -22,68 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 1,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3,000 G   | 1,00 M                | 1,697500 G   | -27,45 | -24,45 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 3,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7,000 G   | 1,00 M                | 3,049000 G   | -39,65 | -26,65 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 7,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9,000 G   | 1,00 M                | 7,564500 G   | -36,74 | -23,74 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| Start                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Stop      | RBW                   | Freq         | PerAbn | ΔLimit |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| [Hz]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | [Hz]      | [Hz]                  | [Hz]         | [dBm]  | [dB]   |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 30,000 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 820,000 M | 1,00 M                | 814,667500 M | -44,02 | -31,02 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 855,000 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1,000 G   | 1,00 M                | 866,165001 M | -43,62 | -30,62 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 1,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3,000 G   | 1,00 M                | 1,657000 G   | -40,50 | -27,50 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 3,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7,000 G   | 1,00 M                | 3,031000 G   | -39,51 | -26,51 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 7,000 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9,000 G   | 1,00 M                | 7,646000 G   | -36,88 | -23,88 |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |      |     |      |        |        |      |      |      |      |       |      |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |



## Frequency Stability

| Test Conditions  | Middle Channel    | GSM850<br>(GPRS class 8) | GSM850<br>(EDGE class 8) | Limit<br>2.5ppm |
|------------------|-------------------|--------------------------|--------------------------|-----------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)          |                          | Result          |
| 50               | Normal Voltage    | 0.0060                   | 0.0012                   | PASS            |
| 40               | Normal Voltage    | 0.0036                   | 0.0048                   |                 |
| 30               | Normal Voltage    | 0.0036                   | 0.0060                   |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000                   | 0.0000                   |                 |
| 10               | Normal Voltage    | 0.0012                   | 0.0239                   |                 |
| 0                | Normal Voltage    | 0.0060                   | 0.0407                   |                 |
| -10              | Normal Voltage    | 0.0120                   | 0.0323                   |                 |
| -20              | Normal Voltage    | 0.0084                   | 0.0383                   |                 |
| -30              | Normal Voltage    | 0.0108                   | 0.0430                   |                 |
| 20               | Maximum Voltage   | 0.0000                   | 0.0096                   |                 |
| 20               | Normal Voltage    | 0.0000                   | 0.0000                   |                 |
| 20               | Battery End Point | 0.0084                   | 0.0024                   |                 |

| Test Conditions  | Middle Channel    | GSM1900<br>(GPRS class 8) | GSM1900<br>(EDGE class 8) | Limit<br>Note 2. |
|------------------|-------------------|---------------------------|---------------------------|------------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)           |                           | Result           |
| 50               | Normal Voltage    | 0.0048                    | 0.0005                    | PASS             |
| 40               | Normal Voltage    | 0.0037                    | 0.0021                    |                  |
| 30               | Normal Voltage    | 0.0043                    | 0.0032                    |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                    | 0.0000                    |                  |
| 10               | Normal Voltage    | 0.0186                    | 0.0282                    |                  |
| 0                | Normal Voltage    | 0.0191                    | 0.0239                    |                  |
| -10              | Normal Voltage    | 0.0197                    | 0.0298                    |                  |
| -20              | Normal Voltage    | 0.0186                    | 0.0282                    |                  |
| -30              | Normal Voltage    | 0.0223                    | 0.0314                    |                  |
| 20               | Maximum Voltage   | 0.0021                    | 0.0032                    |                  |
| 20               | Normal Voltage    | 0.0000                    | 0.0000                    |                  |
| 20               | Battery End Point | 0.0000                    | 0.0021                    |                  |

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.3 V
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The dummy battery has 0.1V loss when providing power from power supply to EUT by customer declared.

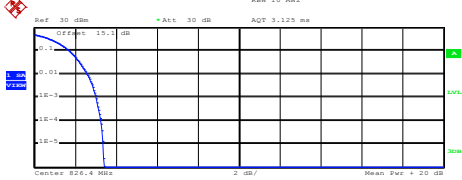
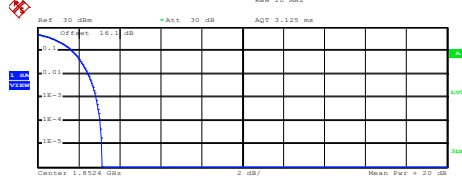
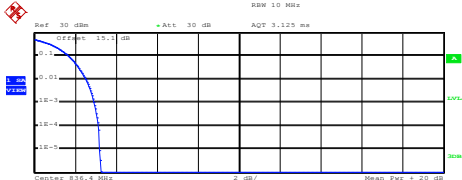
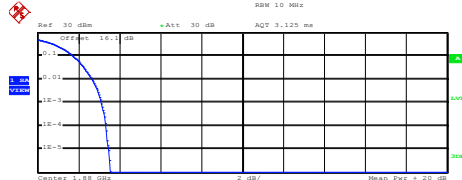
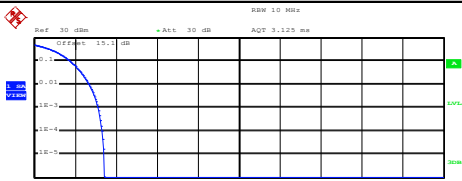
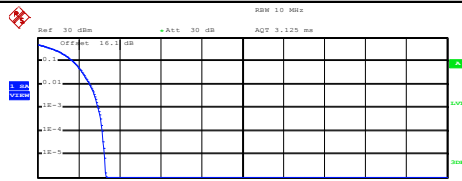


### A3. WCDMA

#### Peak-to-Average Ratio

| Mode       | WCDMA Band V | WCDMA Band II | Limit: 13dB |
|------------|--------------|---------------|-------------|
| Mod.       | RMC 12.2Kbps | RMC 12.2Kbps  | Result      |
| Lowest CH  | 3.04         | 2.84          | PASS        |
| Middle CH  | 2.92         | 3.12          |             |
| Highest CH | 3.12         | 2.96          |             |

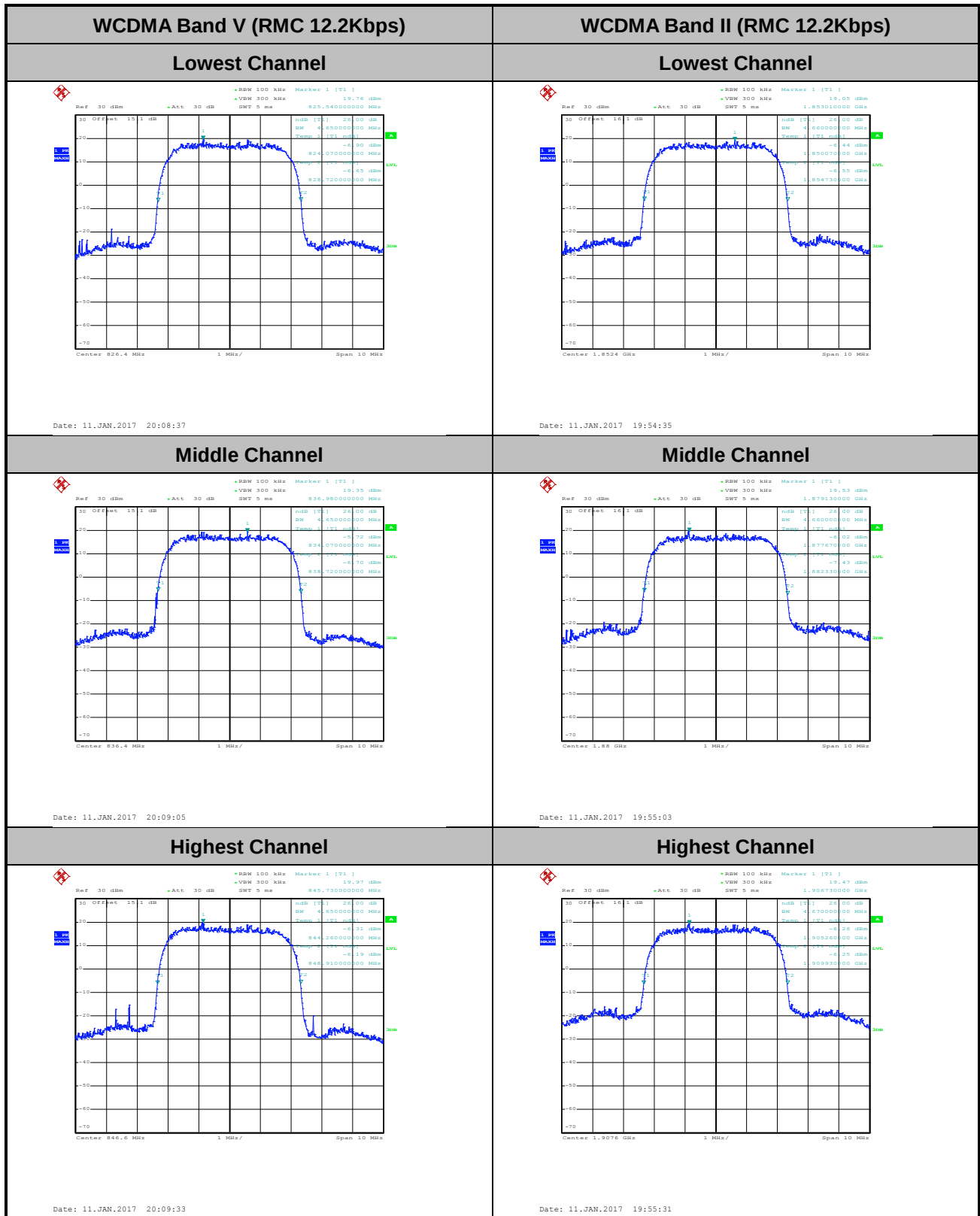


| WCDMA Band V (RMC 12.2Kbps)                                                                                                                                                                                                                                                                                                                                                                                            | WCDMA Band II (RMC 12.2Kbps)                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lowest Channel                                                                                                                                                                                                                                                                                                                                                                                                         | Lowest Channel                                                                                                                                                                                                                                                                                                                                                                                                           |
|  <p>Center 826.4 MHz</p> <p>Ref 30 dBm<br/>Att 30 dB<br/>AQ7 3.125 ms</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 23.37 dBm<br/>Peak 26.77 dBm<br/>Crest 3.40 dB</p> <p>10 % 1.72 dB<br/>1 % 2.60 dB<br/>.1 % 3.04 dB<br/>.01 % 3.28 dB</p> <p>Date: 11.JAN.2017 20:20:46</p>   |  <p>Center 1.8524 GHz</p> <p>Ref 30 dBm<br/>Att 30 dB<br/>AQ7 3.125 ms</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 23.20 dBm<br/>Peak 26.35 dBm<br/>Crest 3.15 dB</p> <p>10 % 1.72 dB<br/>1 % 2.48 dB<br/>.1 % 2.84 dB<br/>.01 % 3.04 dB</p> <p>Date: 11.JAN.2017 20:06:09</p>   |
| Middle Channel                                                                                                                                                                                                                                                                                                                                                                                                         | Middle Channel                                                                                                                                                                                                                                                                                                                                                                                                           |
|  <p>Center 830.4 MHz</p> <p>Ref 30 dBm<br/>Att 30 dB<br/>AQ7 3.125 ms</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 23.37 dBm<br/>Peak 26.63 dBm<br/>Crest 3.26 dB</p> <p>10 % 1.68 dB<br/>1 % 2.52 dB<br/>.1 % 2.92 dB<br/>.01 % 3.16 dB</p> <p>Date: 11.JAN.2017 20:21:13</p>  |  <p>Center 1.85 GHz</p> <p>Ref 30 dBm<br/>Att 30 dB<br/>AQ7 3.125 ms</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 23.16 dBm<br/>Peak 26.70 dBm<br/>Crest 3.54 dB</p> <p>10 % 1.72 dB<br/>1 % 2.68 dB<br/>.1 % 3.12 dB<br/>.01 % 3.32 dB</p> <p>Date: 11.JAN.2017 20:06:19</p>    |
| Highest Channel                                                                                                                                                                                                                                                                                                                                                                                                        | Highest Channel                                                                                                                                                                                                                                                                                                                                                                                                          |
|  <p>Center 846.6 MHz</p> <p>Ref 30 dBm<br/>Att 30 dB<br/>AQ7 3.125 ms</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 23.28 dBm<br/>Peak 26.70 dBm<br/>Crest 3.42 dB</p> <p>10 % 1.76 dB<br/>1 % 2.68 dB<br/>.1 % 3.12 dB<br/>.01 % 3.32 dB</p> <p>Date: 11.JAN.2017 20:21:22</p> |  <p>Center 1.9076 GHz</p> <p>Ref 30 dBm<br/>Att 30 dB<br/>AQ7 3.125 ms</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 23.16 dBm<br/>Peak 26.49 dBm<br/>Crest 3.33 dB</p> <p>10 % 1.72 dB<br/>1 % 2.56 dB<br/>.1 % 2.96 dB<br/>.01 % 3.16 dB</p> <p>Date: 11.JAN.2017 20:06:29</p> |



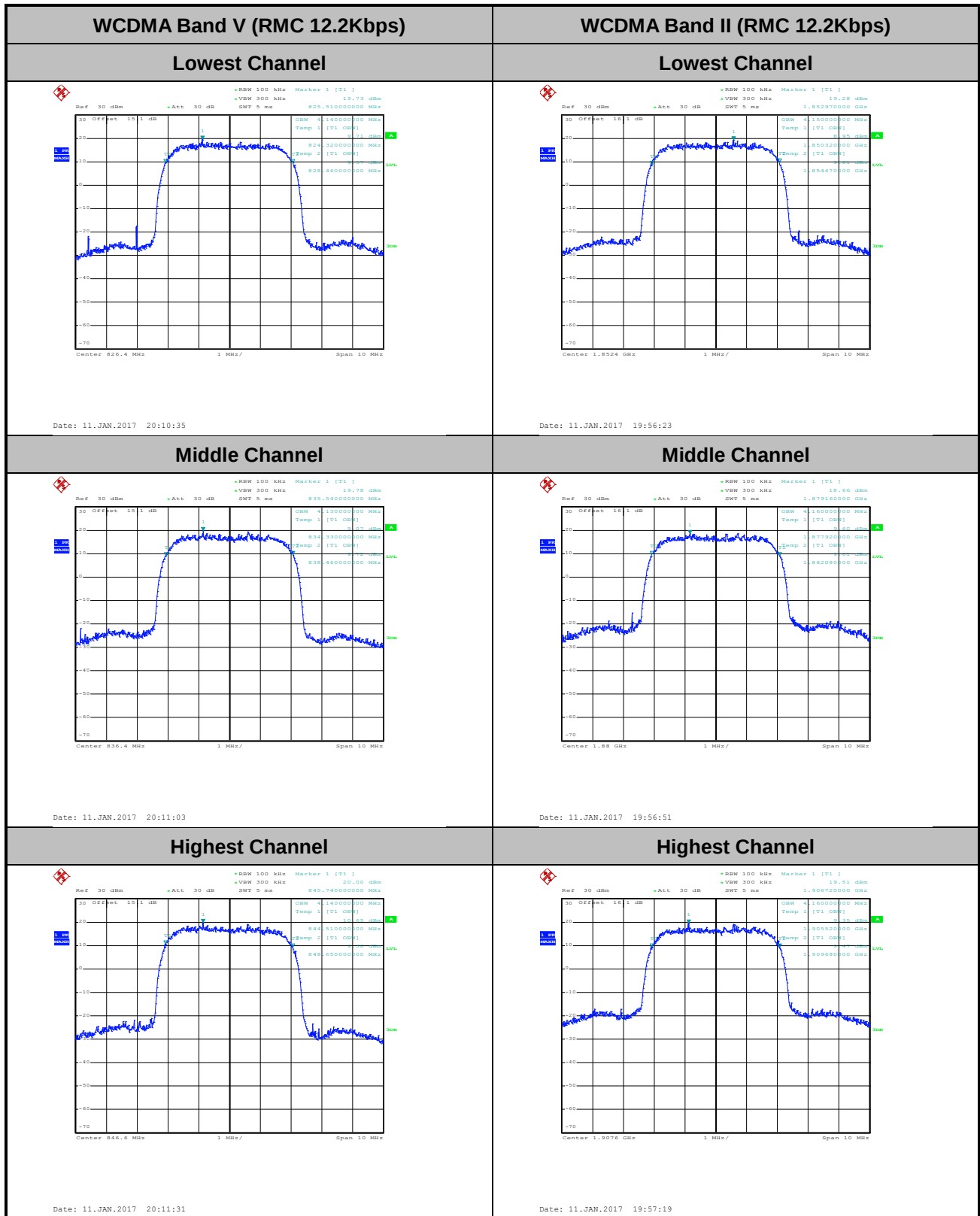
## 26dB Bandwidth

| Mode       | WCDMA Band V | WCDMA Band II |
|------------|--------------|---------------|
| Mod.       | RMC 12.2Kbps | RMC 12.2Kbps  |
| Lowest CH  | 4.65         | 4.66          |
| Middle CH  | 4.65         | 4.66          |
| Highest CH | 4.65         | 4.67          |



**Occupied Bandwidth**

| Mode       | WCDMA Band V | WCDMA Band II |
|------------|--------------|---------------|
| Mod.       | RMC 12.2Kbps | RMC 12.2Kbps  |
| Lowest CH  | 4.14         | 4.15          |
| Middle CH  | 4.13         | 4.16          |
| Highest CH | 4.14         | 4.16          |

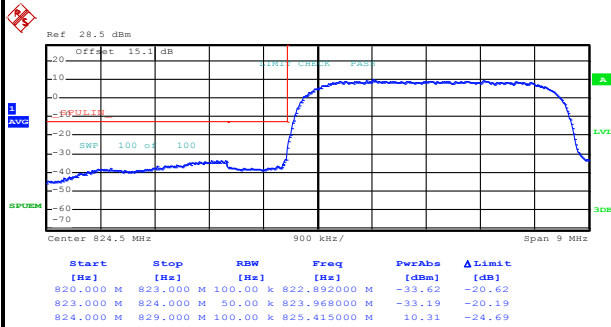




## Conducted Band Edge

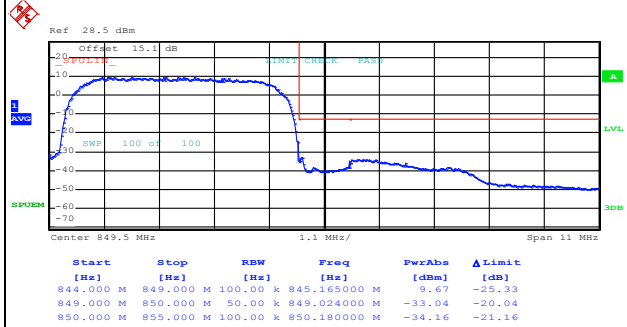
### WCDMA Band V (RMC 12.2Kbps)

#### Lowest Band Edge



Date: 11.JAN.2017 20:15:00

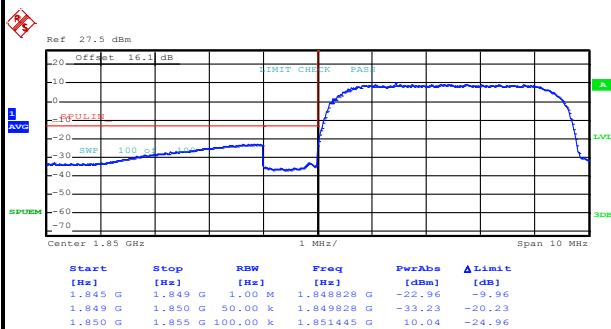
#### Highest Band Edge



Date: 11.JAN.2017 20:17:42

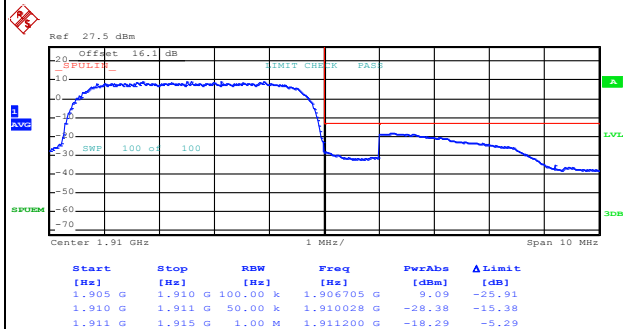
### WCDMA Band II (RMC 12.2Kbps)

#### Lowest Band Edge



Date: 11.JAN.2017 20:00:21

#### Highest Band Edge



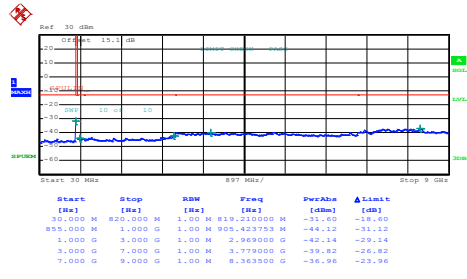
Date: 11.JAN.2017 20:03:03



# Conducted Spurious Emission

## WCDMA Band V (RMC 12.2Kbps)

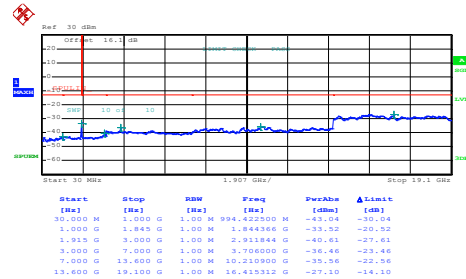
### Lowest Channel



Date: 11.JAN.2017 20:18:57

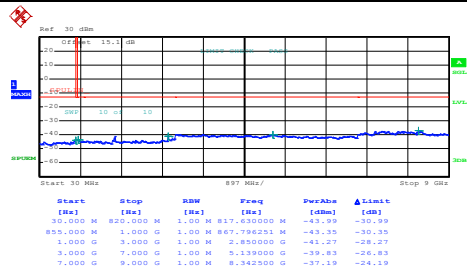
## WCDMA Band II (RMC 12.2Kbps)

### Lowest Channel



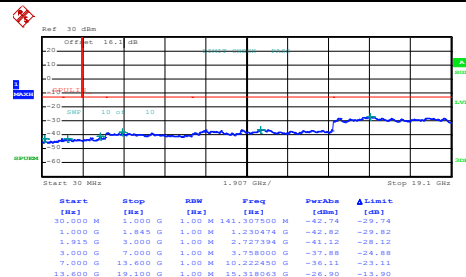
Date: 11.JAN.2017 20:03:52

### Middle Channel



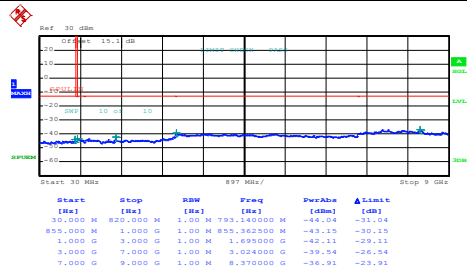
Date: 11.JAN.2017 20:19:42

### Middle Channel



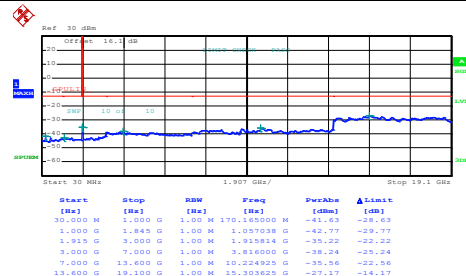
Date: 11.JAN.2017 20:04:38

### Highest Channel



Date: 11.JAN.2017 20:20:27

### Highest Channel



Date: 11.JAN.2017 20:05:23

## Frequency Stability

| Test Conditions  | Middle Channel    | WCDMA Band V<br>(RMC 12.2Kbps) | Limit<br>2.5ppm |
|------------------|-------------------|--------------------------------|-----------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)                | Result          |
| 50               | Normal Voltage    | 0.0024                         | PASS            |
| 40               | Normal Voltage    | 0.0000                         |                 |
| 30               | Normal Voltage    | 0.0024                         |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000                         |                 |
| 10               | Normal Voltage    | 0.0036                         |                 |
| 0                | Normal Voltage    | 0.0060                         |                 |
| -10              | Normal Voltage    | 0.0036                         |                 |
| -20              | Normal Voltage    | 0.0048                         |                 |
| -30              | Normal Voltage    | 0.0012                         |                 |
| 20               | Maximum Voltage   | 0.0036                         |                 |
| 20               | Normal Voltage    | 0.0000                         |                 |
| 20               | Battery End Point | 0.0060                         |                 |

| Test Conditions  | Middle Channel    | WCDMA Band II<br>(RMC 12.2Kbps) | Limit<br>Note 2. |
|------------------|-------------------|---------------------------------|------------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)                 | Result           |
| 50               | Normal Voltage    | 0.0053                          | PASS             |
| 40               | Normal Voltage    | 0.0037                          |                  |
| 30               | Normal Voltage    | 0.0032                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0027                          |                  |
| 0                | Normal Voltage    | 0.0255                          |                  |
| -10              | Normal Voltage    | 0.0282                          |                  |
| -20              | Normal Voltage    | 0.0309                          |                  |
| -30              | Normal Voltage    | 0.0293                          |                  |
| 20               | Maximum Voltage   | 0.0096                          |                  |
| 20               | Normal Voltage    | 0.0000                          |                  |
| 20               | Battery End Point | 0.0021                          |                  |

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.3 V
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The dummy battery has 0.1V loss when providing power from power supply to EUT by customer declared

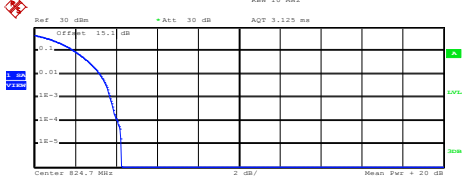
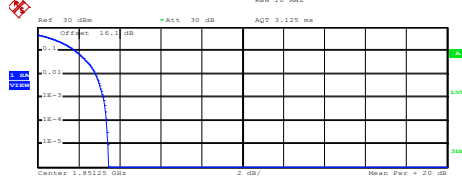
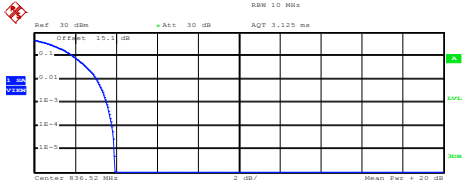
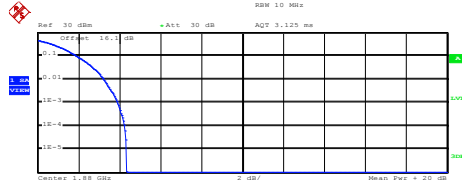
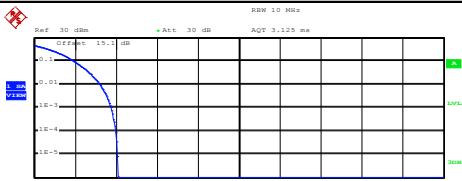
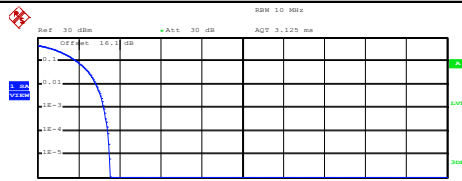


## A4. CDMA

### Peak-to-Average Ratio

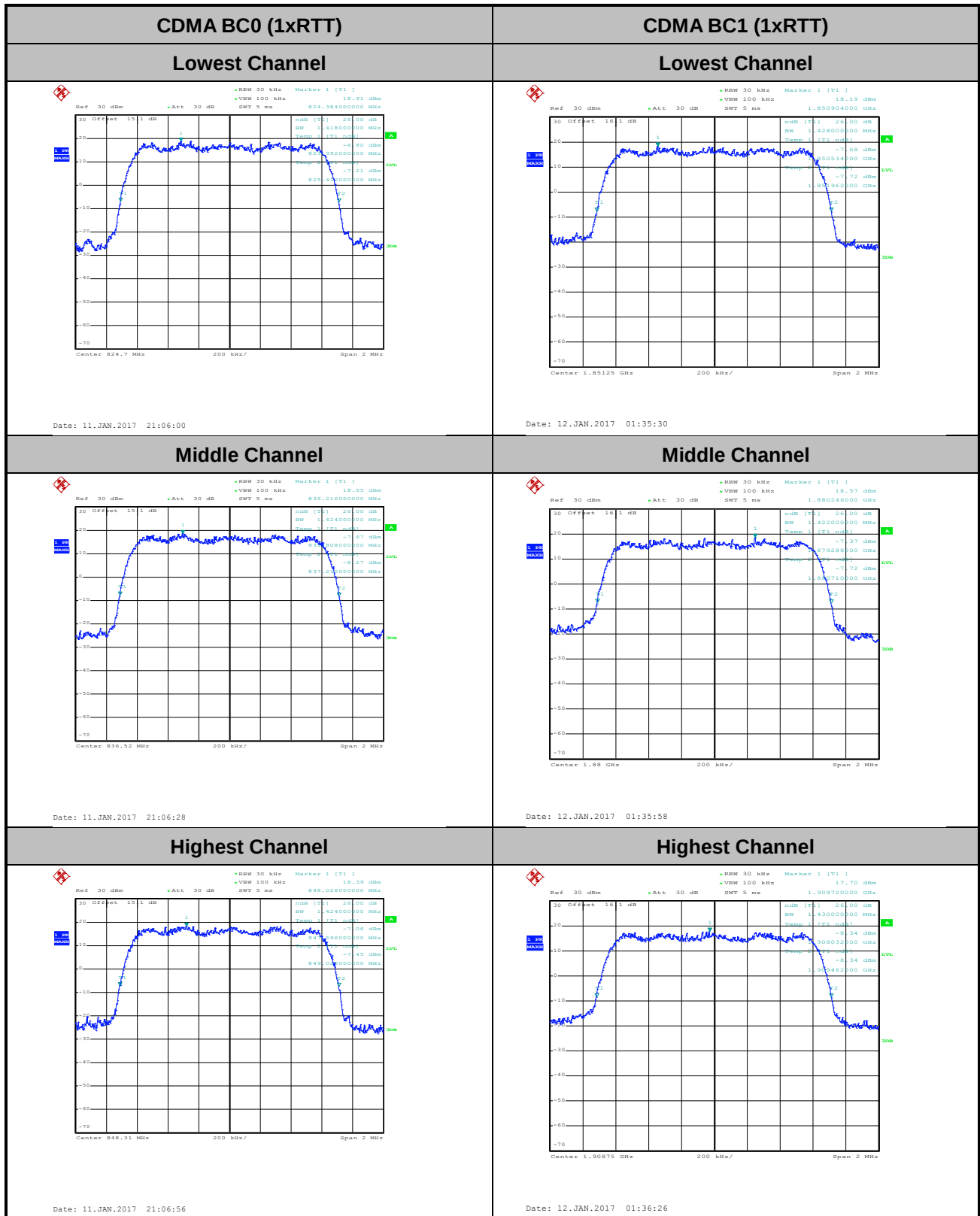
| Mode       | CDMA BC0 | CDMA BC1 | Limit: 13dB |
|------------|----------|----------|-------------|
| Mod.       | 1xRTT    | 1xRTT    | Result      |
| Lowest CH  | 3.72     | 3.20     | PASS        |
| Middle CH  | 3.52     | 3.92     |             |
| Highest CH | 3.76     | 3.24     |             |



| CDMA BC0 (1xRTT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CDMA BC1 (1xRTT) |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------|------|-----------|-------|---------|------|---------|-----|---------|------|---------|-------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|------|-----------|-------|---------|------|---------|-----|---------|------|---------|-------|---------|
| Lowest Channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Lowest Channel   |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
|  <p>Ref: 30 dBm, Att: 30 dB, AQT: 3.125 ms, RSW: 10 MHz, Center: 824.7 MHz, Mean: 23.15 dBm, Peak: 27.40 dBm, Crest: 4.26 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <table><tr><td>Mean</td><td>23.15 dBm</td></tr><tr><td>Peak</td><td>27.40 dBm</td></tr><tr><td>Crest</td><td>4.26 dB</td></tr></table> <table><tr><td>10 %</td><td>1.96 dB</td></tr><tr><td>1 %</td><td>3.20 dB</td></tr><tr><td>.1 %</td><td>3.72 dB</td></tr><tr><td>.01 %</td><td>4.08 dB</td></tr></table> <p>Date: 11.JAN.2017 21:19:17</p>    | Mean             | 23.15 dBm | Peak | 27.40 dBm | Crest | 4.26 dB | 10 % | 1.96 dB | 1 % | 3.20 dB | .1 % | 3.72 dB | .01 % | 4.08 dB |  <p>Ref: 30 dBm, Att: 30 dB, AQT: 3.125 ms, RSW: 10 MHz, Center: 1.85125 GHz, Mean: 23.11 dBm, Peak: 26.56 dBm, Crest: 3.45 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <table><tr><td>Mean</td><td>23.11 dBm</td></tr><tr><td>Peak</td><td>26.56 dBm</td></tr><tr><td>Crest</td><td>3.45 dB</td></tr></table> <table><tr><td>10 %</td><td>1.84 dB</td></tr><tr><td>1 %</td><td>2.84 dB</td></tr><tr><td>.1 %</td><td>3.20 dB</td></tr><tr><td>.01 %</td><td>3.36 dB</td></tr></table> <p>Date: 12.JAN.2017 01:55:10</p>   | Mean | 23.11 dBm | Peak | 26.56 dBm | Crest | 3.45 dB | 10 % | 1.84 dB | 1 % | 2.84 dB | .1 % | 3.20 dB | .01 % | 3.36 dB |
| Mean                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 23.15 dBm        |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 27.40 dBm        |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Crest                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4.26 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.96 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3.20 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3.72 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .01 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4.08 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Mean                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 23.11 dBm        |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 26.56 dBm        |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Crest                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3.45 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.84 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.84 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3.20 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .01 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3.36 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Middle Channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Middle Channel   |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
|  <p>Ref: 30 dBm, Att: 30 dB, AQT: 3.125 ms, RSW: 10 MHz, Center: 835.52 MHz, Mean: 22.99 dBm, Peak: 26.91 dBm, Crest: 3.92 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <table><tr><td>Mean</td><td>22.99 dBm</td></tr><tr><td>Peak</td><td>26.91 dBm</td></tr><tr><td>Crest</td><td>3.92 dB</td></tr></table> <table><tr><td>10 %</td><td>1.92 dB</td></tr><tr><td>1 %</td><td>3.04 dB</td></tr><tr><td>.1 %</td><td>3.52 dB</td></tr><tr><td>.01 %</td><td>3.80 dB</td></tr></table> <p>Date: 11.JAN.2017 21:19:28</p>  | Mean             | 22.99 dBm | Peak | 26.91 dBm | Crest | 3.92 dB | 10 % | 1.92 dB | 1 % | 3.04 dB | .1 % | 3.52 dB | .01 % | 3.80 dB |  <p>Ref: 30 dBm, Att: 30 dB, AQT: 3.125 ms, RSW: 10 MHz, Center: 1.88 GHz, Mean: 22.93 dBm, Peak: 27.26 dBm, Crest: 4.34 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <table><tr><td>Mean</td><td>22.93 dBm</td></tr><tr><td>Peak</td><td>27.26 dBm</td></tr><tr><td>Crest</td><td>4.34 dB</td></tr></table> <table><tr><td>10 %</td><td>1.92 dB</td></tr><tr><td>1 %</td><td>3.24 dB</td></tr><tr><td>.1 %</td><td>3.92 dB</td></tr><tr><td>.01 %</td><td>4.24 dB</td></tr></table> <p>Date: 12.JAN.2017 01:55:28</p>     | Mean | 22.93 dBm | Peak | 27.26 dBm | Crest | 4.34 dB | 10 % | 1.92 dB | 1 % | 3.24 dB | .1 % | 3.92 dB | .01 % | 4.24 dB |
| Mean                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 22.99 dBm        |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 26.91 dBm        |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Crest                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3.92 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.92 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3.04 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3.52 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .01 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3.80 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Mean                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 22.93 dBm        |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 27.26 dBm        |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Crest                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4.34 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.92 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3.24 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3.92 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .01 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4.24 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Highest Channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Highest Channel  |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
|  <p>Ref: 30 dBm, Att: 30 dB, AQT: 3.125 ms, RSW: 10 MHz, Center: 848.31 MHz, Mean: 22.97 dBm, Peak: 27.05 dBm, Crest: 4.08 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <table><tr><td>Mean</td><td>22.97 dBm</td></tr><tr><td>Peak</td><td>27.05 dBm</td></tr><tr><td>Crest</td><td>4.08 dB</td></tr></table> <table><tr><td>10 %</td><td>1.96 dB</td></tr><tr><td>1 %</td><td>3.20 dB</td></tr><tr><td>.1 %</td><td>3.76 dB</td></tr><tr><td>.01 %</td><td>4.00 dB</td></tr></table> <p>Date: 11.JAN.2017 21:19:38</p> | Mean             | 22.97 dBm | Peak | 27.05 dBm | Crest | 4.08 dB | 10 % | 1.96 dB | 1 % | 3.20 dB | .1 % | 3.76 dB | .01 % | 4.00 dB |  <p>Ref: 30 dBm, Att: 30 dB, AQT: 3.125 ms, RSW: 10 MHz, Center: 1.90875 GHz, Mean: 22.68 dBm, Peak: 26.20 dBm, Crest: 3.52 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <table><tr><td>Mean</td><td>22.68 dBm</td></tr><tr><td>Peak</td><td>26.20 dBm</td></tr><tr><td>Crest</td><td>3.52 dB</td></tr></table> <table><tr><td>10 %</td><td>1.92 dB</td></tr><tr><td>1 %</td><td>2.84 dB</td></tr><tr><td>.1 %</td><td>3.24 dB</td></tr><tr><td>.01 %</td><td>3.44 dB</td></tr></table> <p>Date: 12.JAN.2017 01:55:53</p> | Mean | 22.68 dBm | Peak | 26.20 dBm | Crest | 3.52 dB | 10 % | 1.92 dB | 1 % | 2.84 dB | .1 % | 3.24 dB | .01 % | 3.44 dB |
| Mean                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 22.97 dBm        |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 27.05 dBm        |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Crest                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4.08 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.96 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3.20 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3.76 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .01 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4.00 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Mean                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 22.68 dBm        |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 26.20 dBm        |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Crest                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3.52 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.92 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.84 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3.24 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .01 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3.44 dB          |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |           |      |           |       |         |      |         |     |         |      |         |       |         |

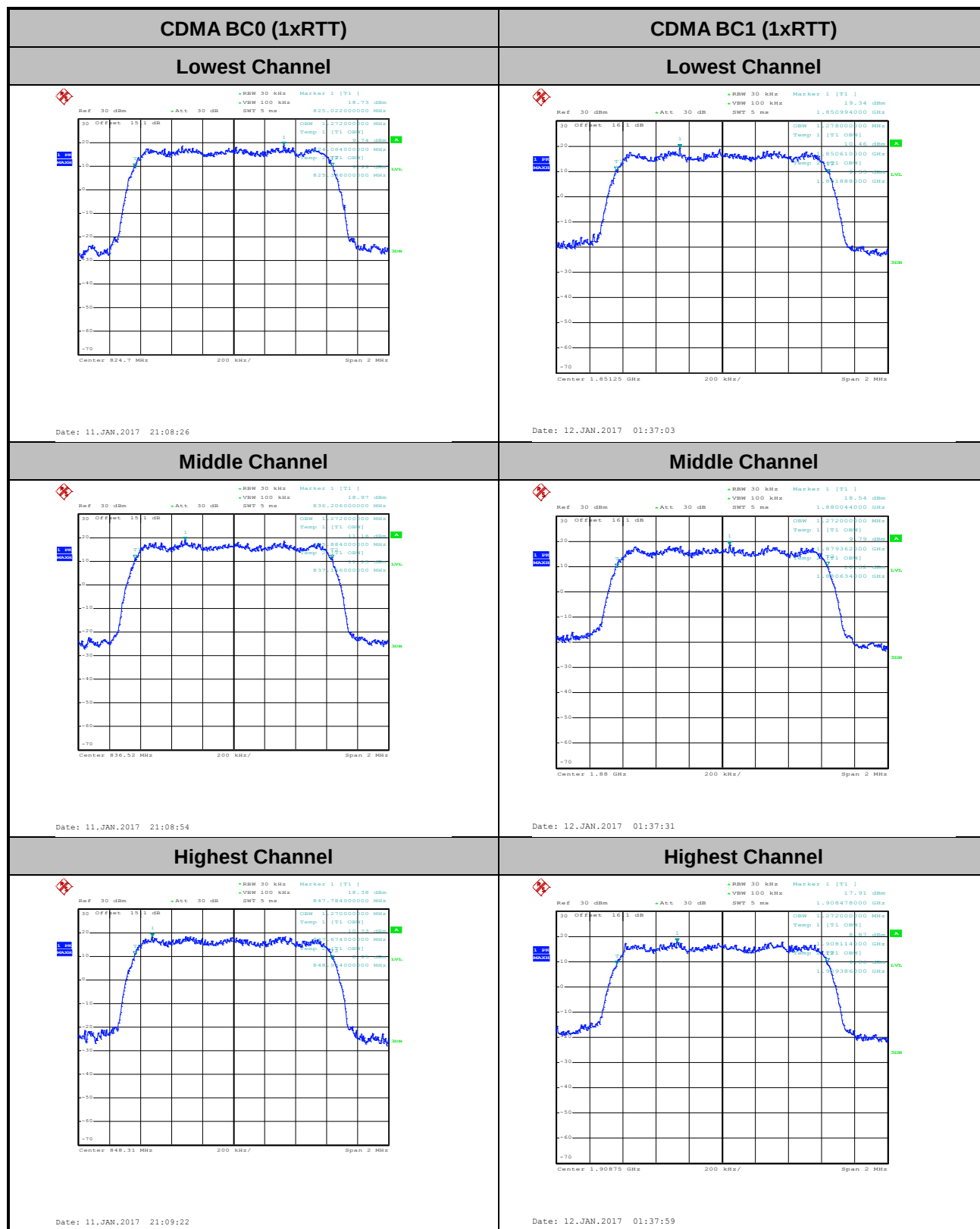
**26dB Bandwidth**

| Mode       | CDMA BC0 | CDMA BC1 |
|------------|----------|----------|
| Mod.       | 1xRTT    | 1xRTT    |
| Lowest CH  | 1.42     | 1.43     |
| Middle CH  | 1.42     | 1.42     |
| Highest CH | 1.42     | 1.43     |



**Occupied Bandwidth**

| Mode       | CDMA BC0 | CDMA BC1 |
|------------|----------|----------|
| Mod.       | 1xRTT    | 1xRTT    |
| Lowest CH  | 1.27     | 1.28     |
| Middle CH  | 1.27     | 1.27     |
| Highest CH | 1.27     | 1.27     |

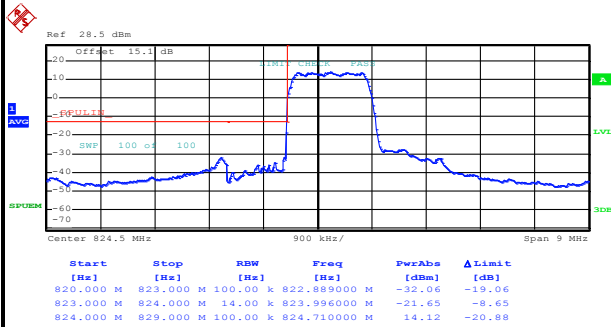




# Conducted Band Edge

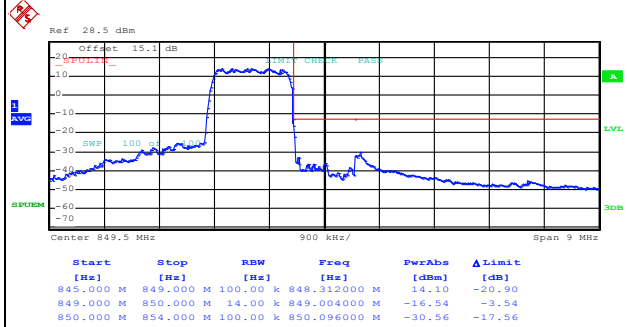
## CDMA BC0 (1xRTT)

### Lowest Band Edge



Date: 11.JAN.2017 21:13:19

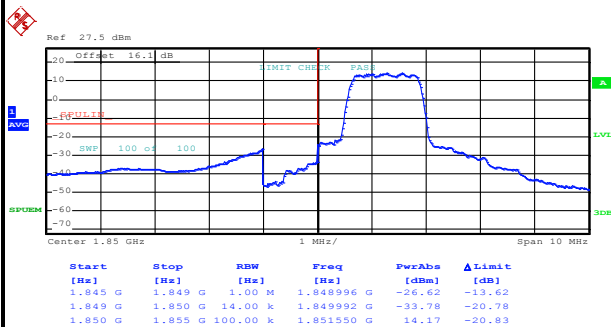
### Highest Band Edge



Date: 11.JAN.2017 21:16:01

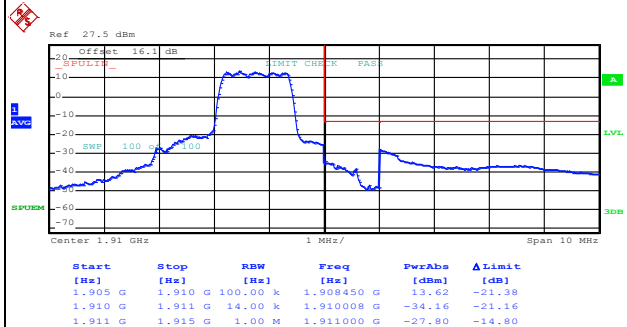
## CDMA BC1 (1xRTT)

### Lowest Band Edge



Date: 12.JAN.2017 01:46:56

### Highest Band Edge



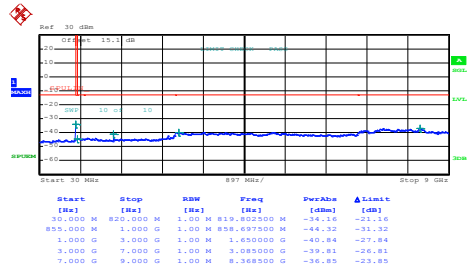
Date: 12.JAN.2017 01:49:44



# Conducted Spurious Emission

## CDMA BC0 (1xRTT)

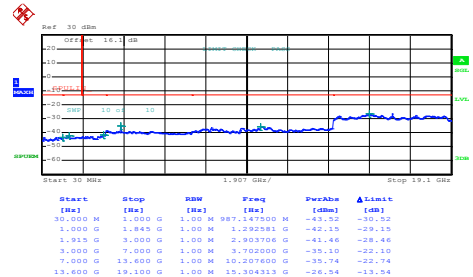
### Lowest Channel



Date: 11.JAN.2017 21:17:29

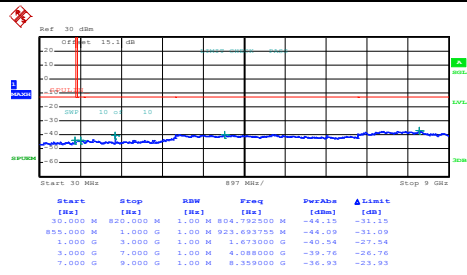
## CDMA BC1 (1xRTT)

### Lowest Channel



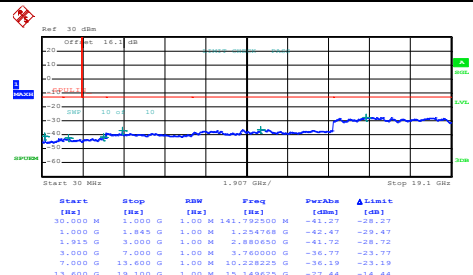
Date: 12.JAN.2017 01:50:44

## Middle Channel



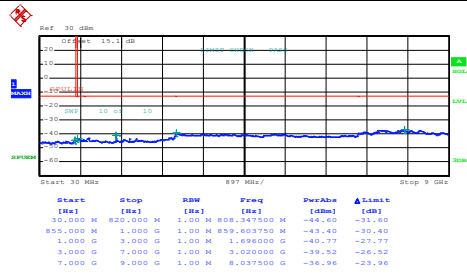
Date: 11.JAN.2017 21:18:14

## Middle Channel



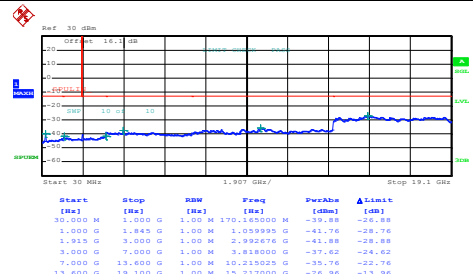
Date: 12.JAN.2017 01:53:07

## Highest Channel



Date: 11.JAN.2017 21:18:59

## Highest Channel



Date: 12.JAN.2017 01:54:01

## Frequency Stability

| Test Conditions  | Middle Channel    | CDMA BC0<br>(1xRTT) | Limit<br>2.5ppm |
|------------------|-------------------|---------------------|-----------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)     | Result          |
| 50               | Normal Voltage    | 0.0012              | PASS            |
| 40               | Normal Voltage    | 0.0000              |                 |
| 30               | Normal Voltage    | 0.0024              |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000              |                 |
| 10               | Normal Voltage    | 0.0024              |                 |
| 0                | Normal Voltage    | 0.0108              |                 |
| -10              | Normal Voltage    | 0.0096              |                 |
| -20              | Normal Voltage    | 0.0096              |                 |
| -30              | Normal Voltage    | 0.0072              |                 |
| 20               | Maximum Voltage   | 0.0024              |                 |
| 20               | Normal Voltage    | 0.0000              |                 |
| 20               | Battery End Point | 0.0024              |                 |

| Test Conditions  | Middle Channel    | CDMA BC1<br>(1xRTT) | Limit<br>Note 2. |
|------------------|-------------------|---------------------|------------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)     | Result           |
| 50               | Normal Voltage    | 0.0027              | PASS             |
| 40               | Normal Voltage    | 0.0037              |                  |
| 30               | Normal Voltage    | 0.0011              |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000              |                  |
| 10               | Normal Voltage    | 0.0059              |                  |
| 0                | Normal Voltage    | 0.0202              |                  |
| -10              | Normal Voltage    | 0.0176              |                  |
| -20              | Normal Voltage    | 0.0170              |                  |
| -30              | Normal Voltage    | 0.0149              |                  |
| 20               | Maximum Voltage   | 0.0053              |                  |
| 20               | Normal Voltage    | 0.0000              |                  |
| 20               | Battery End Point | 0.0016              |                  |

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.3 V
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The dummy battery has 0.1V loss when providing power from power supply to EUT by customer declared.



## Appendix B. Test Results of ERP/EIRP and Radiated Test

### ERP/EIRP

| Channel | Mode                                                | Conducted   |               | ERP      |        |
|---------|-----------------------------------------------------|-------------|---------------|----------|--------|
|         |                                                     | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest  | GSM850<br>GPRS class 8<br>(GT - LC = 0.12 dB)       | 32.98       | 1.9861        | 30.95    | 1.2445 |
| Middle  |                                                     | 32.96       | 1.9770        | 30.93    | 1.2388 |
| Highest |                                                     | 32.99       | 1.9907        | 30.96    | 1.2474 |
| Lowest  | GSM850<br>EDGE class 8<br>(GT - LC = 0.12 dB)       | 26.71       | 0.4688        | 24.68    | 0.2938 |
| Middle  |                                                     | 26.47       | 0.4436        | 24.44    | 0.2780 |
| Highest |                                                     | 26.60       | 0.4571        | 24.57    | 0.2864 |
| Lowest  | WCDMA Band V<br>RMC 12.2Kbps<br>(GT - LC = 0.12 dB) | 23.95       | 0.2483        | 21.92    | 0.1556 |
| Middle  |                                                     | 24.06       | 0.2547        | 22.03    | 0.1596 |
| Highest |                                                     | 23.98       | 0.2499        | 21.95    | 0.1566 |
| Lowest  | CDMA BC0<br>1xRTT<br>(GT - LC = 0.12 dB)            | 23.93       | 0.2472        | 21.90    | 0.1549 |
| Middle  |                                                     | 24.10       | 0.2570        | 22.07    | 0.1611 |
| Highest |                                                     | 23.90       | 0.2455        | 21.87    | 0.1538 |
| Lowest  | CDMA BC0<br>1xEV-DO<br>(GT - LC = 0.12 dB)          | 23.98       | 0.2500        | 21.95    | 0.1567 |
| Middle  |                                                     | 24.09       | 0.2564        | 22.06    | 0.1607 |
| Highest |                                                     | 24.01       | 0.2518        | 21.98    | 0.1578 |
| Limit   | ERP < 7W                                            | Result      |               | PASS     |        |

| Channel | Mode                                                 | Conducted   |               | EIRP      |         |
|---------|------------------------------------------------------|-------------|---------------|-----------|---------|
|         |                                                      | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest  | GSM1900<br>GPRS class 8<br>(GT - LC = 1.06 dB)       | 29.86       | 0.9683        | 30.92     | 1.2359  |
| Middle  |                                                      | 30.06       | 1.0139        | 31.12     | 1.2942  |
| Highest |                                                      | 29.74       | 0.9419        | 30.80     | 1.2023  |
| Lowest  | GSM1900<br>EDGE class 8<br>(GT - LC = 1.06 dB)       | 25.86       | 0.3855        | 26.92     | 0.4920  |
| Middle  |                                                      | 25.59       | 0.3622        | 26.65     | 0.4624  |
| Highest |                                                      | 25.37       | 0.3443        | 26.43     | 0.4395  |
| Lowest  | WCDMA Band II<br>RMC 12.2Kbps<br>(GT - LC = 1.06 dB) | 23.99       | 0.2506        | 25.05     | 0.3199  |
| Middle  |                                                      | 24.26       | 0.2667        | 25.32     | 0.3404  |
| Highest |                                                      | 24.10       | 0.2570        | 25.16     | 0.3281  |
| Lowest  | CDMA BC1<br>1xRTT<br>(GT - LC = 1.06 dB)             | 23.65       | 0.2317        | 24.71     | 0.2958  |
| Middle  |                                                      | 23.75       | 0.2371        | 24.81     | 0.3027  |
| Highest |                                                      | 23.85       | 0.2427        | 24.91     | 0.3097  |
| Lowest  | CDMA BC1<br>1xEV-DO<br>(GT - LC = 1.06 dB)           | 23.75       | 0.2371        | 24.81     | 0.3027  |
| Middle  |                                                      | 23.75       | 0.2371        | 24.81     | 0.3027  |
| Highest |                                                      | 23.84       | 0.2421        | 24.90     | 0.3090  |
| Limit   | EIRP < 2W                                            | Result      |               | PASS      |         |

**Radiated Spurious Emission**

| GSM850 (GPRS class 8) |                      |                |                  |                         |                         |                          |                            |                             |                       |
|-----------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel               | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                | 1648                 | -56.45         | -13              | -43.45                  | -61.19                  | -58.21                   | 0.98                       | 4.89                        | H                     |
|                       | 2472                 | -60.48         | -13              | -47.48                  | -69.88                  | -62.36                   | 1.28                       | 5.32                        | H                     |
|                       | 3296                 | -64.59         | -13              | -51.59                  | -77.11                  | -68                      | 1.54                       | 7.10                        | H                     |
|                       |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                       |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                       |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                       | 1648                 | -60.13         | -13              | -47.13                  | -63.45                  | -61.89                   | 0.98                       | 4.89                        | V                     |
|                       | 2472                 | -54.76         | -13              | -41.76                  | -65.2                   | -56.64                   | 1.28                       | 5.32                        | V                     |
|                       | 3296                 | -65.60         | -13              | -52.60                  | -77.21                  | -69.01                   | 1.54                       | 7.10                        | V                     |
|                       |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                       |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                       |                      |                |                  |                         |                         |                          |                            |                             | V                     |
| Middle                | 1672                 | -53.42         | -13              | -40.42                  | -58.29                  | -55.1                    | 0.99                       | 4.82                        | H                     |
|                       | 2512                 | -49.23         | -13              | -36.23                  | -58.69                  | -51.2                    | 1.29                       | 5.41                        | H                     |
|                       | 3345                 | -65.79         | -13              | -52.79                  | -77.41                  | -69.4                    | 1.56                       | 7.32                        | H                     |
|                       |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                       |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                       |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                       | 1672                 | -55.92         | -13              | -42.92                  | -58.62                  | -57.6                    | 0.99                       | 4.82                        | V                     |
|                       | 2512                 | -57.43         | -13              | -44.43                  | -67.75                  | -59.4                    | 1.29                       | 5.41                        | V                     |
|                       | 3344                 | -66.89         | -13              | -53.89                  | -77.4                   | -70.5                    | 1.56                       | 7.31                        | V                     |
|                       |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                       |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                       |                      |                |                  |                         |                         |                          |                            |                             | V                     |
| Highest               | 1696                 | -54.41         | -13              | -41.41                  | -59.16                  | -56.01                   | 1.00                       | 4.75                        | H                     |
|                       | 2544                 | -53.46         | -13              | -40.46                  | -63.19                  | -55.44                   | 1.30                       | 5.44                        | H                     |
|                       | 3392                 | -65.44         | -13              | -52.44                  | -77.75                  | -69.24                   | 1.57                       | 7.52                        | H                     |
|                       |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                       |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                       |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                       | 1696                 | -55.04         | -13              | -42.04                  | -58.85                  | -56.64                   | 1.00                       | 4.75                        | V                     |
|                       | 2544                 | -56.78         | -13              | -43.78                  | -67.04                  | -58.76                   | 1.30                       | 5.44                        | V                     |
|                       | 3392                 | -65.95         | -13              | -52.95                  | -77.81                  | -69.75                   | 1.57                       | 7.52                        | V                     |
|                       |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                       |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                       |                      |                |                  |                         |                         |                          |                            |                             | V                     |

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



| GSM850 (EDGE class 8) |                   |             |               |                   |                   |                    |                      |                       |                    |
|-----------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel               | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest                | 1648              | -62.29      | -13           | -49.29            | -67.01            | -64.05             | 0.98                 | 4.89                  | H                  |
|                       | 2472              | -67.06      | -13           | -54.06            | -76.53            | -68.94             | 1.28                 | 5.32                  | H                  |
|                       | 3296              | -65.30      | -13           | -52.30            | -77.83            | -68.71             | 1.54                 | 7.10                  | H                  |
|                       |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                       |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                       |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                       | 1648              | -65.67      | -13           | -52.67            | -68.94            | -67.43             | 0.98                 | 4.89                  | V                  |
|                       | 2472              | -66.01      | -13           | -53.01            | -76.45            | -67.89             | 1.28                 | 5.32                  | V                  |
|                       | 3296              | -65.71      | -13           | -52.71            | -77.27            | -69.12             | 1.54                 | 7.10                  | V                  |
|                       |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                       |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                       |                   |             |               |                   |                   |                    |                      |                       | V                  |
| Middle                | 1672              | -60.80      | -13           | -47.80            | -65.47            | -62.48             | 0.99                 | 4.82                  | H                  |
|                       | 2512              | -66.47      | -13           | -53.47            | -76.03            | -68.44             | 1.29                 | 5.41                  | H                  |
|                       | 3344              | -64.70      | -13           | -51.70            | -76.87            | -68.31             | 1.56                 | 7.31                  | H                  |
|                       |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                       |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                       |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                       | 1672              | -61.60      | -13           | -48.60            | -64.62            | -63.28             | 0.99                 | 4.82                  | V                  |
|                       | 2512              | -60.10      | -13           | -47.10            | -70.33            | -62.07             | 1.29                 | 5.41                  | V                  |
|                       | 3344              | -65.53      | -13           | -52.53            | -76.92            | -69.14             | 1.56                 | 7.31                  | V                  |
|                       |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                       |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                       |                   |             |               |                   |                   |                    |                      |                       | V                  |
| Highest               | 1696              | -60.26      | -13           | -47.26            | -65.04            | -61.86             | 1.00                 | 4.75                  | H                  |
|                       | 2544              | -66.80      | -13           | -53.80            | -76.41            | -68.78             | 1.30                 | 5.44                  | H                  |
|                       | 3392              | -65.41      | -13           | -52.41            | -77.69            | -69.21             | 1.57                 | 7.52                  | H                  |
|                       |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                       |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                       |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                       | 1696              | -61.15      | -13           | -48.15            | -64.97            | -62.75             | 1.00                 | 4.75                  | V                  |
|                       | 2544              | -65.78      | -13           | -52.78            | -76.11            | -67.76             | 1.30                 | 5.44                  | V                  |
|                       | 3392              | -65.49      | -13           | -52.49            | -77.44            | -69.29             | 1.57                 | 7.52                  | V                  |
|                       |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                       |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                       |                   |             |               |                   |                   |                    |                      |                       | V                  |

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



| GSM1900 (GPRS class 8) |                   |              |               |                   |                   |                    |                      |                       |                    |
|------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest                 | 3700              | -37.63       | -13           | -24.63            | -51.87            | -44.2              | 1.67                 | 8.24                  | H                  |
|                        | 5548              | -40.53       | -13           | -27.53            | -59.91            | -47.6              | 2.65                 | 9.72                  | H                  |
|                        | 7401              | -54.96       | -13           | -41.96            | -79.94            | -64.1              | 2.46                 | 11.60                 | H                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                        | 3700              | -40.03       | -13           | -27.03            | -54.07            | -46.6              | 1.67                 | 8.24                  | V                  |
|                        | 5548              | -49.23       | -13           | -36.23            | -67.41            | -56.3              | 2.65                 | 9.72                  | V                  |
|                        | 7401              | -55.56       | -13           | -42.56            | -80               | -64.7              | 2.46                 | 11.60                 | V                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | V                  |
| Middle                 | 3763              | -35.87       | -13           | -22.87            | -50.38            | -42.5              | 1.69                 | 8.32                  | H                  |
|                        | 5639              | -39.05       | -13           | -26.05            | -58.69            | -46.1              | 2.71                 | 9.76                  | H                  |
|                        | 7522              | -54.41       | -13           | -41.41            | -78.95            | -63.8              | 2.42                 | 11.81                 | H                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                        | 3763              | -37.47       | -13           | -24.47            | -51.13            | -44.1              | 1.69                 | 8.32                  | V                  |
|                        | 5639              | -44.65       | -13           | -31.65            | -62.43            | -51.7              | 2.71                 | 9.76                  | V                  |
|                        | 7522              | -55.91       | -13           | -42.91            | -79.92            | -65.3              | 2.42                 | 11.81                 | V                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | V                  |
| Highest                | 3819              | -40.42       | -13           | -27.42            | -55.01            | -47.1              | 1.70                 | 8.38                  | H                  |
|                        | 5730              | -40.17       | -13           | -27.17            | -59.8             | -47.2              | 2.76                 | 9.79                  | H                  |
|                        | 7641              | -42.70       | -13           | -29.70            | -77.18            | -52.2              | 2.38                 | 11.88                 | H                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                        | 3819              | -41.52       | -13           | -28.52            | -55.37            | -48.2              | 1.70                 | 8.38                  | V                  |
|                        | 5730              | -49.17       | -13           | -36.17            | -67.82            | -56.2              | 2.76                 | 9.79                  | V                  |
|                        | 7641              | -55.60       | -13           | -42.60            | -79.15            | -65.1              | 2.38                 | 11.88                 | V                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | V                  |

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



| GSM1900 (EDGE class 8) |                   |              |               |                   |                   |                    |                      |                       |                    |
|------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest                 | 3700              | -42.03       | -13           | -29.03            | -56.56            | -48.6              | 1.67                 | 8.24                  | H                  |
|                        | 5548              | -44.43       | -13           | -31.43            | -64.23            | -51.5              | 2.65                 | 9.72                  | H                  |
|                        | 7401              | -54.56       | -13           | -41.56            | -80               | -63.7              | 2.46                 | 11.60                 | H                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                        | 3700              | -43.63       | -13           | -30.63            | -57.23            | -50.2              | 1.67                 | 8.24                  | V                  |
|                        | 5548              | -51.13       | -13           | -38.13            | -69.43            | -58.2              | 2.65                 | 9.72                  | V                  |
|                        | 7401              | -56.16       | -13           | -43.16            | -80.02            | -65.3              | 2.46                 | 11.60                 | V                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | V                  |
| Middle                 | 3763              | -35.58       | -13           | -22.58            | -50.37            | -42.21             | 1.69                 | 8.32                  | H                  |
|                        | 5639              | -37.69       | -13           | -24.69            | -57.63            | -44.74             | 2.71                 | 9.76                  | H                  |
|                        | 7522              | -54.63       | -13           | -41.63            | -79.63            | -64.02             | 2.42                 | 11.81                 | H                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                        | 3763              | -37.05       | -13           | -24.05            | -51.36            | -43.68             | 1.69                 | 8.32                  | V                  |
|                        | 5639              | -44.74       | -13           | -31.74            | -63.17            | -51.79             | 2.71                 | 9.76                  | V                  |
|                        | 7522              | -55.75       | -13           | -42.75            | -79.86            | -65.14             | 2.42                 | 11.81                 | V                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | V                  |
| Highest                | 3819              | -45.32       | -13           | -32.32            | -59.97            | -52                | 1.70                 | 8.38                  | H                  |
|                        | 5730              | -45.97       | -13           | -32.97            | -65.72            | -53                | 2.76                 | 9.79                  | H                  |
|                        | 7641              | -51.70       | -13           | -38.70            | -76.41            | -61.2              | 2.38                 | 11.88                 | H                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                        | 3819              | -44.92       | -13           | -31.92            | -58.87            | -51.6              | 1.70                 | 8.38                  | V                  |
|                        | 5730              | -50.97       | -13           | -37.97            | -69.83            | -58                | 2.76                 | 9.79                  | V                  |
|                        | 7641              | -55.50       | -13           | -42.50            | -79.04            | -65                | 2.38                 | 11.88                 | V                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                        |                   |              |               |                   |                   |                    |                      |                       | V                  |

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



| WCDMA Band V(RMC 12.2Kbps) |                   |             |               |                   |                   |                    |                      |                       |                    |
|----------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                    | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest                     | 1648              | -60.89      | -13           | -47.89            | -65.67            | -62.65             | 0.98                 | 4.89                  | H                  |
|                            | 2472              | -67.01      | -13           | -54.01            | -76.44            | -68.89             | 1.28                 | 5.32                  | H                  |
|                            | 3296              | -65.11      | -13           | -52.11            | -77.62            | -68.52             | 1.54                 | 7.10                  | H                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                            | 1648              | -63.19      | -13           | -50.19            | -65.55            | -64.95             | 0.98                 | 4.89                  | V                  |
|                            | 2472              | -64.74      | -13           | -51.74            | -75.22            | -66.62             | 1.28                 | 5.32                  | V                  |
|                            | 3296              | -66.04      | -13           | -53.04            | -77.6             | -69.45             | 1.54                 | 7.10                  | V                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | V                  |
| Middle                     | 1672              | -58.54      | -13           | -45.54            | -63.2             | -60.22             | 0.99                 | 4.82                  | H                  |
|                            | 2512              | -58.55      | -13           | -45.55            | -68.13            | -60.52             | 1.29                 | 5.41                  | H                  |
|                            | 3344              | -65.10      | -13           | -52.10            | -77.27            | -68.71             | 1.56                 | 7.31                  | H                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                            | 1672              | -59.78      | -13           | -46.78            | -62.9             | -61.46             | 0.99                 | 4.82                  | V                  |
|                            | 2512              | -57.85      | -13           | -44.85            | -68.16            | -59.82             | 1.29                 | 5.41                  | V                  |
|                            | 3344              | -65.82      | -13           | -52.82            | -77.27            | -69.43             | 1.56                 | 7.31                  | V                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | V                  |
| Highest                    | 1696              | -62.42      | -13           | -49.42            | -67.16            | -64.02             | 1.00                 | 4.75                  | H                  |
|                            | 2544              | -66.66      | -13           | -53.66            | -76.25            | -68.64             | 1.30                 | 5.44                  | H                  |
|                            | 3392              | -65.21      | -13           | -52.21            | -77.49            | -69.01             | 1.57                 | 7.52                  | H                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                            | 1696              | -64.58      | -13           | -51.58            | -68.37            | -66.18             | 1.00                 | 4.75                  | V                  |
|                            | 2544              | -65.53      | -13           | -52.53            | -75.78            | -67.51             | 1.30                 | 5.44                  | V                  |
|                            | 3392              | -65.84      | -13           | -52.84            | -77.66            | -69.64             | 1.57                 | 7.52                  | V                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | V                  |

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



| WCDMA Band II(RMC 12.2Kbps) |                   |              |               |                   |                   |                    |                      |                       |                    |
|-----------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                     | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest                      | 3707              | -47.85       | -13           | -34.85            | -62.34            | -54.43             | 1.67                 | 8.25                  | H                  |
|                             | 5555              | -52.92       | -13           | -39.92            | -73.04            | -59.99             | 2.66                 | 9.72                  | H                  |
|                             | 7417              | -54.35       | -13           | -41.35            | -79.82            | -63.53             | 2.46                 | 11.63                 | H                  |
|                             |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                             |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                             |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                             | 3707              | -50.99       | -13           | -37.99            | -65.39            | -57.57             | 1.67                 | 8.25                  | V                  |
|                             | 5555              | -56.06       | -13           | -43.06            | -74.74            | -63.13             | 2.66                 | 9.72                  | V                  |
|                             | 7417              | -55.94       | -13           | -42.94            | -80.2             | -65.12             | 2.46                 | 11.63                 | V                  |
|                             |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                             |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                             |                   |              |               |                   |                   |                    |                      |                       | V                  |
| Middle                      | 3763              | -49.04       | -13           | -36.04            | -63.74            | -55.67             | 1.69                 | 8.32                  | H                  |
|                             | 5646              | -54.34       | -13           | -41.34            | -74.24            | -61.39             | 2.71                 | 9.76                  | H                  |
|                             | 7520              | -54.61       | -13           | -41.61            | -79.6             | -64                | 2.42                 | 11.81                 | H                  |
|                             |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                             |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                             |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                             | 3763              | -51.16       | -13           | -38.16            | -65.43            | -57.79             | 1.69                 | 8.32                  | V                  |
|                             | 5646              | -59.25       | -13           | -46.25            | -77.65            | -66.3              | 2.71                 | 9.76                  | V                  |
|                             | 7520              | -55.66       | -13           | -42.66            | -79.75            | -65.05             | 2.42                 | 11.81                 | V                  |
|                             |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                             |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                             |                   |              |               |                   |                   |                    |                      |                       | V                  |
| Highest                     | 3819              | -50.72       | -13           | -37.72            | -65.5             | -57.4              | 1.70                 | 8.38                  | H                  |
|                             | 5723              | -56.43       | -13           | -43.43            | -76.58            | -63.47             | 2.75                 | 9.79                  | H                  |
|                             | 7641              | -54.77       | -13           | -41.77            | -79.47            | -64.27             | 2.38                 | 11.88                 | H                  |
|                             |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                             |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                             |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                             | 3819              | -52.05       | -13           | -39.05            | -66.18            | -58.73             | 1.70                 | 8.38                  | V                  |
|                             | 5723              | -58.27       | -13           | -45.27            | -77.25            | -65.31             | 2.75                 | 9.79                  | V                  |
|                             | 7641              | -55.35       | -13           | -42.35            | -79.35            | -64.85             | 2.38                 | 11.88                 | V                  |
|                             |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                             |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                             |                   |              |               |                   |                   |                    |                      |                       | V                  |

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



| CDMA BC0(1xRTT) |                   |             |               |                   |                   |                    |                      |                       |                    |
|-----------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel         | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest          | 1648              | -56.74      | -13           | -43.74            | -60.82            | -58.5              | 0.98                 | 4.89                  | H                  |
|                 | 2472              | -63.12      | -13           | -50.12            | -71.65            | -65                | 1.28                 | 5.32                  | H                  |
|                 | 3299              | -65.48      | -13           | -52.48            | -77.78            | -68.9              | 1.54                 | 7.12                  | H                  |
|                 |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                 |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                 |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                 | 1648              | -58.44      | -13           | -45.44            | -61.74            | -60.2              | 0.98                 | 4.89                  | V                  |
|                 | 2472              | -63.82      | -13           | -50.82            | -74.03            | -65.7              | 1.28                 | 5.32                  | V                  |
|                 | 3299              | -66.08      | -13           | -53.08            | -77.69            | -69.5              | 1.54                 | 7.12                  | V                  |
|                 |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                 |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                 |                   |             |               |                   |                   |                    |                      |                       | V                  |
| Middle          | 1672              | -54.55      | -13           | -41.55            | -59.14            | -56.23             | 0.99                 | 4.82                  | H                  |
|                 | 2512              | -50.50      | -13           | -37.50            | -60.06            | -52.47             | 1.29                 | 5.41                  | H                  |
|                 | 3344              | -64.74      | -13           | -51.74            | -76.91            | -68.35             | 1.56                 | 7.31                  | H                  |
|                 |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                 |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                 |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                 | 1672              | -55.80      | -13           | -42.80            | -58.82            | -57.48             | 0.99                 | 4.82                  | V                  |
|                 | 2512              | -48.92      | -13           | -35.92            | -59.15            | -50.89             | 1.29                 | 5.41                  | V                  |
|                 | 3344              | -65.58      | -13           | -52.58            | -76.97            | -69.19             | 1.56                 | 7.31                  | V                  |
|                 |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                 |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                 |                   |             |               |                   |                   |                    |                      |                       | V                  |
| Highest         | 1696              | -56.90      | -13           | -43.90            | -61.14            | -58.5              | 1.00                 | 4.75                  | H                  |
|                 | 2544              | -63.52      | -13           | -50.52            | -72.96            | -65.5              | 1.30                 | 5.44                  | H                  |
|                 | 3393              | -65.79      | -13           | -52.79            | -77.69            | -69.6              | 1.57                 | 7.53                  | H                  |
|                 |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                 |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                 |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                 | 1696              | -59.20      | -13           | -46.20            | -62.96            | -60.8              | 1.00                 | 4.75                  | V                  |
|                 | 2544              | -61.72      | -13           | -48.72            | -71.75            | -63.7              | 1.30                 | 5.44                  | V                  |
|                 | 3393              | -66.19      | -13           | -53.19            | -77.37            | -70                | 1.57                 | 7.53                  | V                  |
|                 |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                 |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                 |                   |             |               |                   |                   |                    |                      |                       | V                  |

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



| CDMA BC1(1xRTT) |                   |              |               |                   |                   |                    |                      |                       |                    |
|-----------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel         | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest          | 3700              | -47.53       | -13           | -34.53            | -61.61            | -54.1              | 1.67                 | 8.24                  | H                  |
|                 | 5555              | -51.13       | -13           | -38.13            | -71.02            | -58.2              | 2.66                 | 9.72                  | H                  |
|                 | 7405              | -54.55       | -13           | -41.55            | -79.65            | -63.7              | 2.46                 | 11.61                 | H                  |
|                 |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                 |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                 |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                 | 3700              | -48.53       | -13           | -35.53            | -62.49            | -55.1              | 1.67                 | 8.24                  | V                  |
|                 | 5555              | -57.13       | -13           | -44.13            | -75.39            | -64.2              | 2.66                 | 9.72                  | V                  |
|                 | 7405              | -55.55       | -13           | -42.55            | -79.5             | -64.7              | 2.46                 | 11.61                 | V                  |
|                 |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                 |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                 |                   |              |               |                   |                   |                    |                      |                       | V                  |
| Middle          | 3763              | -46.49       | -13           | -33.49            | -61.2             | -53.12             | 1.69                 | 8.32                  | H                  |
|                 | 5639              | -52.80       | -13           | -39.80            | -72.73            | -59.85             | 2.71                 | 9.76                  | H                  |
|                 | 7520              | -54.40       | -13           | -41.40            | -79.47            | -63.79             | 2.42                 | 11.81                 | H                  |
|                 |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                 |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                 |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                 | 3763              | -49.31       | -13           | -36.31            | -63.63            | -55.94             | 1.69                 | 8.32                  | V                  |
|                 | 5639              | -57.99       | -13           | -44.99            | -76.42            | -65.04             | 2.71                 | 9.76                  | V                  |
|                 | 7520              | -55.56       | -13           | -42.56            | -79.69            | -64.95             | 2.42                 | 11.81                 | V                  |
|                 |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                 |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                 |                   |              |               |                   |                   |                    |                      |                       | V                  |
| Highest         | 3819              | -50.42       | -13           | -37.42            | -64.84            | -57.1              | 1.70                 | 8.38                  | H                  |
|                 | 5730              | -53.17       | -13           | -40.17            | -72.84            | -60.2              | 2.76                 | 9.79                  | H                  |
|                 | 7635              | -54.10       | -13           | -41.10            | -78.49            | -63.6              | 2.39                 | 11.88                 | H                  |
|                 |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                 |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                 |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                 | 3819              | -49.52       | -13           | -36.52            | -63.16            | -56.2              | 1.70                 | 8.38                  | V                  |
|                 | 5726              | -57.56       | -13           | -44.56            | -76.61            | -64.6              | 2.76                 | 9.79                  | V                  |
|                 | 7635              | -55.70       | -13           | -42.70            | -79               | -65.2              | 2.39                 | 11.88                 | V                  |
|                 |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                 |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                 |                   |              |               |                   |                   |                    |                      |                       | V                  |

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