



# FCC RADIO TEST REPORT

**FCC ID** : PY7-67200Y  
**Equipment** : GSM/WCDMA/LTE Phone+Bluetooth,  
DTS/UNII a/b/g/n/ac and NFC  
**Brand Name** : Sony  
**Applicant** : Sony Mobile Communications Inc.  
4-12-3 Higashi-Shinagawa, Shinagawa-ku,  
Tokyo, 140-0002, Japan  
**Manufacturer** : Sony Mobile Communications Inc.  
4-12-3 Higashi-Shinagawa, Shinagawa-ku,  
Tokyo, 140-0002, Japan  
**Standard** : 47 CFR Part 2, 22(H), 24(E)

The product was received on Aug. 14, 2018 and testing was started from Sep. 15, 2018 and completed on Oct. 16, 2018. 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-603-E and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

Approved by: Joseph Lin

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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**Appendix A. Test Results of Conducted Test**

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



### History of this test report

| Report No.   | Version | Description             | Issued Date   |
|--------------|---------|-------------------------|---------------|
| FG881330-01A | 01      | Initial issue of report | Nov. 14, 2018 |
|              |         |                         |               |
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|              |         |                         |               |



### Summary of Test Result

| Report Clause | Ref Std. Clause                       | Test Items                                   | Result (PASS/FAIL) | Remark                                      |
|---------------|---------------------------------------|--|--------------------|---|
| 3.2           | §2.1046                               | Conducted Output Power                       | Pass               | -   |
|               | §22.913 (a)(2)                        | Effective Radiated Power                     |                    |   |
|               | §24.232 (c)                           | Equivalent Isotropic Radiated Power          |                    |   |
| 3.3           | §24.232 (d)                           | Peak-to-Average Ratio                        | Pass               | -   |
| 3.4           | §2.1049<br>§22.917 (b)<br>§24.238 (b) | Occupied Bandwidth                           | Pass               | -   |
| 3.5           | §2.1051<br>§22.917 (a)<br>§24.238 (a) | Band Edge Measurement                        | Pass               | -   |
| 3.6           | §2.1051<br>§22.917 (a)<br>§24.238 (a) | Conducted Emission                           | Pass               | -   |
| 3.7           | §2.1055<br>§22.355                    | Frequency Stability<br>Temperature & Voltage | Pass               | -   |
|               | §2.1055<br>§24.235                    |  |                    | -   |
| 4.4           | §2.1053<br>§22.917 (a)<br>§24.238 (a) | Field Strength of Spurious Radiation         | Pass               | Under limit<br>26.65 dB at<br>11280.000 MHz |

Reviewed by: Wii Chang

Report Producer: Natasha Hsieh



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, DTS/UNII a/b/g/n/ac, FM Receiver, NFC, and GNSS.

| Standards-related Product Specification |              |
|---|--------------|
| Antenna Type                            | PIFA Antenna |

| EUT Information List |            |            |  |
|----------------------|------------|------------|--|
| HW Version           | SW Version | S/N        | Performed Test Item                    |
| A                    | 1.27       | CQ30013BN9 | Conducted Measurement<br>ERP/EIRP Test |
|                      |            | CQ300195MN | Radiated Spurious Emission             |

| Accessory List |                    |
|----------------|--------------------|
| AC Adapter     | Model Name: UCH32  |
|                | S/N: 6218W30200038 |
| Earphone       | Model Name: MH410c |
|                | S/N: N/A           |
| USB Cable      | Model Name: UCB24  |
|                | S/N: N/A           |

**Note:**

1. Above EUT list used are electrically identical per declared by manufacturer.
2. Above the accessories list are used to exercise the EUT during test, and the serial number of each type of accessories is listed in each section of this report. .
3. For other wireless features of this EUT, test report will be issued separately.

## 1.2 Modification of EUT

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



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

| FCC Rule | Frequency Range (MHz) | System                        | Type of Modulation | Maximum ERP/EIRP (W) | Frequency Tolerance (ppm) | Emission Designator |
|----------|-----------------------|-------------------------------|--------------------|----------------------|---------------------------|---------------------|
| Part 22  | 824.2 ~848.8          | GSM850 GPRS class 8           | GMSK               | 0.4688               | 0.0120 ppm                | 248KGXW             |
| Part 22  | 824.2 ~848.8          | GSM850 EDGE class 8           | 8PSK               | 0.1340               | 0.0096 ppm                | 247KG7W             |
| Part 22  | 826.4 ~846.6          | WCDMA Band V<br>RMC 12.2Kbps  | BPSK               | 0.0618               | 0.0167 ppm                | 4M17F9W             |
| Part 24  | 1850.2 ~1909.8        | GSM1900 GPRS class 8          | GMSK               | 0.7379               | 0.0059 ppm                | 248KGXW             |
| Part 24  | 1850.2 ~1909.8        | GSM1900<br>EDGE class 10      | 8PSK               | 0.2630               | 0.0080 ppm                | 246KG7W             |
| Part 24  | 1852.4 ~ 1907.6       | WCDMA Band II<br>RMC 12.2Kbps | BPSK               | 0.1127               | 0.0037 ppm                | 4M17F9W             |

### 1.4 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 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, Huaya 1st Rd., Guishan Dist.,<br>Taoyuan 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   | 03CH07-HY |

**Note:** The test site complies with ANSI C63.4 2014 requirement.



## **1.5 Applicable Standards**

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ 47 CFR Part 2, 22(H), 24(E)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ 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 v03r01 with maximum output power.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane) were recorded in this report.

Radiated emissions were investigated as following frequency range:

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

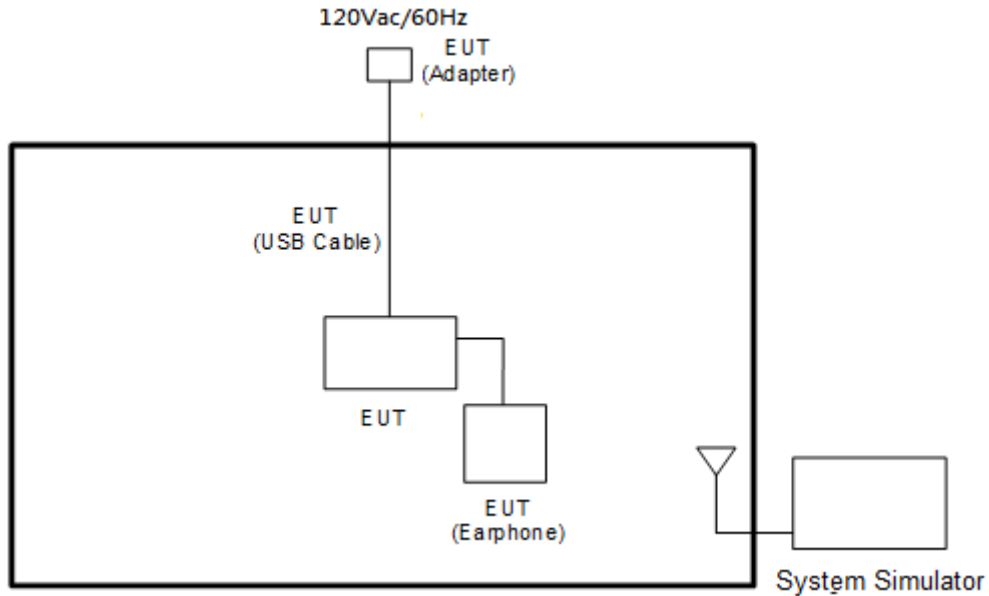
All modes and data rates and positions were investigated.

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 10 Link</li></ul> | <ul style="list-style-type: none"><li>■ GPRS Class 8 Link</li><li>■ EDGE Class 10 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>                              |



## 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 | Anritsu    | 8820C     | N/A    | N/A        | Unshielded, 1.8 m |

## 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:

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



## 2.5 Frequency List of Low/Middle/High Channels

| Frequency List |                        |        |        |         |
|----------------|------------------------|--------|--------|---------|
| Band           | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| GSM850         | Channel                | 128    | 189    | 251     |
|                | Frequency              | 824.2  | 836.4  | 848.8   |
| WCDMA Band V   | Channel                | 4132   | 4182   | 4233    |
|                | Frequency              | 826.4  | 836.4  | 846.6   |
| GSM1900        | Channel                | 512    | 661    | 810     |
|                | Frequency              | 1850.2 | 1880.0 | 1909.8  |
| WCDMA Band II  | Channel                | 9262   | 9400   | 9538    |
|                | Frequency              | 1852.4 | 1880.0 | 1907.6  |

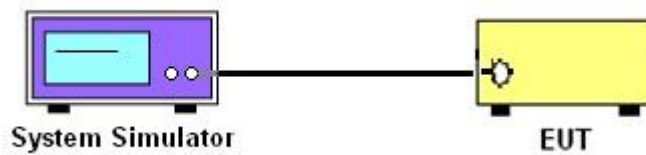
### 3 Conducted Test Result

#### 3.1 Measuring Instruments

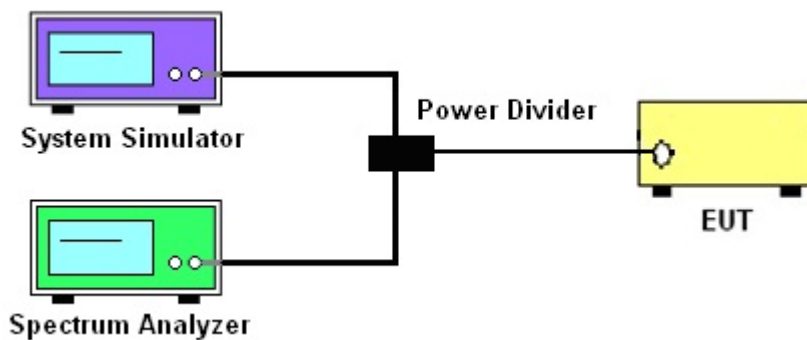
See list of measuring instruments of this test report.

##### 3.1.1 Test Setup

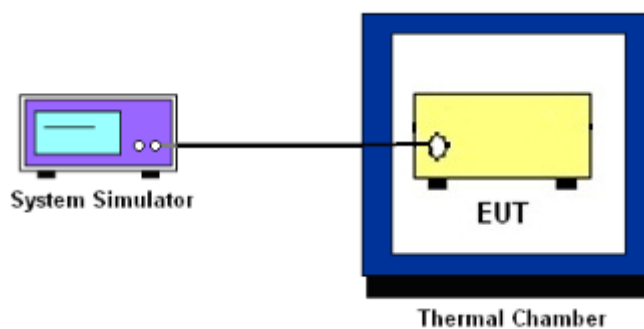
##### 3.1.2 Conducted Output Power



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



##### 3.1.4 Frequency Stability



##### 3.1.5 Test Result of Conducted Test

Please refer to Appendix A.



## **3.2 Conducted Output Power and ERP/EIRP**

### **3.2.1 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 and WCDMA Band V.

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

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

### **3.2.2 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.



### **3.3 Peak-to-Average Ratio**

#### **3.3.1 Description of the PAR Measurement**

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

#### **3.3.2 Test Procedures**

The testing follows FCC KDB 971168 D01 v03r01 Section 5.7.1

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



### 3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

#### 3.4.1 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.

#### 3.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 4.2

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. 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.
4. Set the detection mode to peak, and the trace mode to max hold.
5. 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)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. 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.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



## **3.5 Conducted Band Edge**

### **3.5.1 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.

### **3.5.2 Test Procedures**

The testing follows FCC KDB 971168 D01 v03r01 Section 6.0.

1. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
2. 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.
3. The band edges of low and high channels for the highest RF powers were measured.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
5. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)



## **3.6 Conducted Spurious Emission**

### **3.6.1 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.

### **3.6.2 Test Procedures**

The testing follows FCC KDB 971168 D01 v03r01 Section 6.0.

1. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
2. 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.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
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)





### 3.7 Frequency Stability

#### 3.7.1 Description of Frequency Stability Measurement

22.355

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.

24.235

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

#### 3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. 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.
3. 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.

#### 3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

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

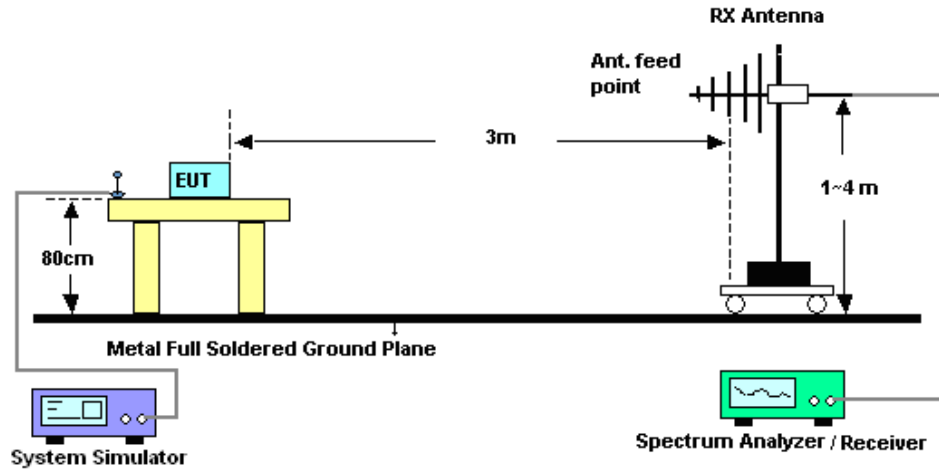
## 4 Radiated Test Items

### 4.1 Measuring Instruments

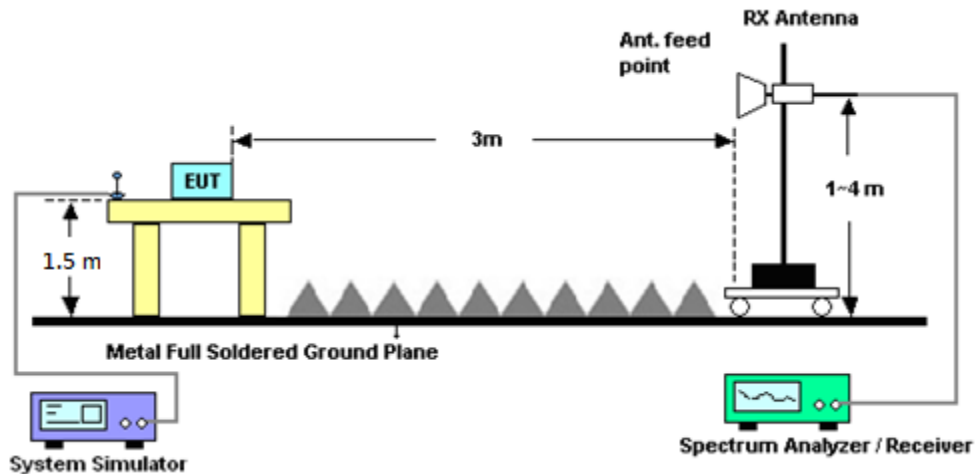
See list of measuring instruments of this test report.

### 4.2 Test Setup

For radiated test from 30MHz to 1GHz



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**

The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI / TIA-603-E Section 2.2.12.

1. 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.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. 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.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10.  $EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain$
11.  $ERP (dBm) = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
13. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)



## 5 List of Measuring Equipment

| Instrument                | Manufacturer    | Model No.                  | Serial No.   | Characteristics               | Calibration Date | Test Date                       | Due Date      | Remark                |
|---------------------------|-----------------|----------------------------|--------------|-------------------------------|------------------|---------------------------------|---------------|-----------------------|
| Base Station (Measure)    | Rohde & Schwarz | CMU200                     | 117995       | GSM / GPRS / WCDMA / CDMA     | Aug. 10, 2018    | Sep. 15, 2018                   | Aug. 09, 2019 | Conducted (TH03-HY)   |
| Spectrum Analyzer         | Rohde & Schwarz | FSP30                      | 101329       | 9kHz~30GHz                    | Jun. 29, 2018    | Sep. 15, 2018                   | Jun. 28, 2019 | Conducted (TH03-HY)   |
| Temperature Chamber       | ESPEC           | SU-641                     | 92013721     | -30°C ~70°C                   | Dec. 06, 2017    | Sep. 15, 2018                   | Dec. 05, 2018 | Conducted (TH03-HY)   |
| Programmable Power Supply | GW Instek       | PSS-2005                   | EL883644     | Voltage:0~20V; Current:0~5A   | Dec. 06, 2017    | Sep. 15, 2018                   | Dec. 05, 2018 | Conducted (TH03-HY)   |
| Hygrometer                | Testo           | 608-H1                     | 34893241     | N/A                           | Mar. 06, 2018    | Sep. 15, 2018                   | Mar. 05, 2019 | Conducted (TH03-HY)   |
| Loop Antenna              | Rohde & Schwarz | HFH2-Z2                    | 100315       | 9 kHz~30 MHz                  | Nov. 10, 2017    | Oct. 01, 2018~<br>Oct. 16, 2018 | Nov. 09, 2018 | Radiation (03CH07-HY) |
| Bilog Antenna             | TESEQ           | CBL 6111D&00 800N1D01 N-06 | 35419&03     | 30MHz to 1GHz                 | Dec. 18, 2017    | Oct. 01, 2018~<br>Oct. 16, 2018 | Dec. 17, 2018 | Radiation (03CH07-HY) |
| Double Ridge Horn Antenna | ESCO            | 3117                       | 00211469     | 1GHz ~ 18GHz                  | Aug. 06, 2018    | Oct. 01, 2018~<br>Oct. 16, 2018 | Aug. 05, 2019 | Radiation (03CH07-HY) |
| Double Ridge Horn Antenna | ESCO            | 3117                       | 00066583     | 1GHz ~ 18GHz                  | Aug. 06, 2018    | Oct. 01, 2018~<br>Oct. 16, 2018 | Aug. 05, 2019 | Radiation (03CH07-HY) |
| SHF-EHF Horn Antenna      | SCHWARZBECK     | BBHA 9170                  | BBHA91702 51 | 18GHz- 40GHz                  | Nov. 10, 2017    | Oct. 01, 2018~<br>Oct. 16, 2018 | Nov. 09, 2018 | Radiation (03CH07-HY) |
| SHF-EHF Horn Antenna      | SCHWARZBECK     | BBHA 9170                  | BBHA91705 84 | 18GHz ~ 40GHz                 | Nov. 27, 2017    | Oct. 01, 2018~<br>Oct. 16, 2018 | Nov. 26, 2018 | Radiation (03CH07-HY) |
| Preamplifier              | COM-POWER       | PA-103A                    | 161241       | 10MHz-1GHz                    | May 21, 2018     | Oct. 01, 2018~<br>Oct. 16, 2018 | May 20, 2019  | Radiation (03CH07-HY) |
| Preamplifier              | MITEQ           | AMF-7D-0 0101800-3 0-10P   | 1590075      | 1GHz ~ 18GHz                  | Apr. 25, 2018    | Oct. 01, 2018~<br>Oct. 16, 2018 | Apr. 24, 2019 | Radiation (03CH07-HY) |
| Amplifier                 | MITEQ           | TTA1840-3 5-HG             | 1871923      | 18GHz~40GHz, VSWR : 2.5:1 max | Jul. 16, 2018    | Oct. 01, 2018~<br>Oct. 16, 2018 | Jul. 15, 2019 | Radiation (03CH07-HY) |
| EMI Test Receiver         | Agilent         | N9038A (MXE)               | MY5329005 3  | 20Hz to 26.5GHz               | Jan. 16, 2018    | Oct. 01, 2018~<br>Oct. 16, 2018 | Jan. 15, 2019 | Radiation (03CH07-HY) |
| Spectrum Analyzer         | Agilent         | N9010A                     | MY5347011 8  | 10Hz~44GHz                    | Apr. 17, 2018    | Oct. 01, 2018~<br>Oct. 16, 2018 | Apr. 16, 2019 | Radiation (03CH07-HY) |



| Instrument          | Manufacturer       | Model No.                              | Serial No.                            | Characteristics       | Calibration Date | Test Date                       | Due Date      | Remark                   |
|---------------------|--------------------|--|---------------------------------------|-----------------------|------------------|---------------------------------|---------------|--------------------------|
| Hygrometer          | Testo              | DTM-303A                               | TP157075                              | N/A                   | Mar. 06, 2018    | Oct. 01, 2018~<br>Oct. 16, 2018 | Mar. 05, 2019 | Radiation<br>(03CH07-HY) |
| Notch Filter        | Wainwright         | WRCT185<br>0/1910-40/<br>8SS           | SN21                                  | 1900                  | Nov. 08, 2017    | Oct. 01, 2018~<br>Oct. 16, 2018 | Nov. 07, 2018 | Radiation<br>(03CH07-HY) |
| Notch Filter        | Wainwright         | WTRCT5-<br>824-849-2<br>0-70-60SS<br>K | SN1                                   | 824-849               | Mar. 22, 2018    | Oct. 01, 2018~<br>Oct. 16, 2018 | Mar. 21, 2019 | Radiation<br>(03CH07-HY) |
| Filter              | Microwave          | H1G013G<br>1                           | SN477215                              | 1.0G High Pass        | Dec. 07, 2017    | Oct. 01, 2018~<br>Oct. 16, 2018 | Dec. 06, 2018 | Radiation<br>(03CH07-HY) |
| Filter              | Microwave          | H3G018G<br>1                           | SN477220                              | 3.0G High Pass        | Nov. 21, 2017    | Oct. 01, 2018~<br>Oct. 16, 2018 | Nov. 20, 2018 | Radiation<br>(03CH07-HY) |
| Filter              | Wainwright         | WLKS120<br>0-8SS                       | SN3                                   | 1.2G Low Pass         | Nov. 21, 2017    | Oct. 01, 2018~<br>Oct. 16, 2018 | Nov. 20, 2018 | Radiation<br>(03CH07-HY) |
| RF Cable            | HUBER +<br>SUHNER  | SUCOFLE<br>X 104                       | MY28655/4,<br>MY24971/4,<br>MY15682/4 | 30MHz~1GHz            | Feb. 27, 2018    | Oct. 01, 2018~<br>Oct. 16, 2018 | Feb. 26, 2019 | Radiation<br>(03CH07-HY) |
| RF Cable            | HUBER +<br>SUHNER  | SUCOFLE<br>X 104                       | MY28655/4,<br>MY24971/4,<br>MY15682/4 | 1GHz~18GHz            | Feb. 27, 2018    | Oct. 01, 2018~<br>Oct. 16, 2018 | Feb. 26, 2019 | Radiation<br>(03CH07-HY) |
| RF Cable            | HUBER +<br>SUHNER  | SUCOFLE<br>X 102                       | MY2858/2                              | 18GHz~40GHz           | Feb. 27, 2018    | Oct. 01, 2018~<br>Oct. 16, 2018 | Feb. 26, 2019 | Radiation<br>(03CH07-HY) |
| Controller          | ChainTek           | Chaintek<br>3000                       | N/A                                   | Control Turn<br>table | N/A              | Oct. 01, 2018~<br>Oct. 16, 2018 | N/A           | Radiation<br>(03CH07-HY) |
| Controller          | Max-Full           | MF7802                                 | MF7802083<br>68                       | Control Ant<br>Mast   | N/A              | Oct. 01, 2018~<br>Oct. 16, 2018 | N/A           | Radiation<br>(03CH07-HY) |
| Antenna Mast        | Max-Full           | MFA520B<br>S                           | N/A                                   | 1m~4m                 | N/A              | Oct. 01, 2018~<br>Oct. 16, 2018 | N/A           | Radiation<br>(03CH07-HY) |
| Turn Table          | ChainTek           | Chaintek<br>3000                       | N/A                                   | 0~360 Degree          | N/A              | Oct. 01, 2018~<br>Oct. 16, 2018 | N/A           | Radiation<br>(03CH07-HY) |
| Signal<br>Generator | Rohde &<br>Schwarz | SMF100A                                | 101107                                | 100kHz~40GHz          | May 22, 2018     | Oct. 01, 2018~<br>Oct. 16, 2018 | May 21, 2019  | Radiation<br>(03CH07-HY) |
| Software            | Audix              | E3 6.2009<br>-8-24                     | 8050400465<br>6H                      | N/A                   | N/A              | Oct. 01, 2018~<br>Oct. 16, 2018 | N/A           | Radiation<br>(03CH07-HY) |



## 6 Uncertainty of Evaluation

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

|   |      |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.05 |
|---|------|

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

|   |      |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.44 |
|---|------|

### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

|   |      |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.95 |
|---|------|



## 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                          | 32.01        | 32.25 | 32.44        | 29.23   | 29.96 | 30.15        |
| GPRS class 8                 | 32.01        | 32.26 | <b>32.46</b> | 29.25   | 30.00 | <b>30.18</b> |
| GPRS class 10                | 30.34        | 30.86 | 30.94        | 26.56   | 27.10 | 27.13        |
| GPRS class 11                | 28.54        | 28.83 | 29.00        | 25.45   | 26.15 | 26.40        |
| GPRS class 12                | 27.37        | 27.47 | 27.69        | 24.90   | 25.45 | 25.40        |
| EGPRS class 8                | <b>27.02</b> | 26.56 | 26.91        | 24.50   | 24.80 | 25.30        |
| EGPRS class 10               | 26.88        | 26.32 | 26.74        | 24.75   | 25.20 | <b>25.70</b> |
| EGPRS class 11               | 26.60        | 26.15 | 26.35        | 24.83   | 24.90 | 25.43        |
| EGPRS class 12               | 26.20        | 25.72 | 25.99        | 23.50   | 24.00 | 24.72        |

| 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                    | <b>23.66</b> | 23.63 | 23.60 | 21.46         | 21.45 | <b>22.02</b> |
| HSDPA Subtest-1              | 22.50        | 22.50 | 22.45 | 20.55         | 20.44 | 20.97        |
| HSDPA Subtest-2              | 22.52        | 22.53 | 22.51 | 20.58         | 20.51 | 20.92        |
| HSDPA Subtest-3              | 22.07        | 22.02 | 22.01 | 20.04         | 19.97 | 20.48        |
| HSDPA Subtest-4              | 22.08        | 22.05 | 22.05 | 20.07         | 20.03 | 20.41        |
| HSUPA Subtest-1              | 22.51        | 22.59 | 22.46 | 20.55         | 20.49 | 20.94        |
| HSUPA Subtest-2              | 20.59        | 20.45 | 20.47 | 18.60         | 18.37 | 19.03        |
| HSUPA Subtest-3              | 21.49        | 21.45 | 21.42 | 19.45         | 19.44 | 19.94        |
| HSUPA Subtest-4              | 20.44        | 20.39 | 20.42 | 18.53         | 18.57 | 18.88        |
| HSUPA Subtest-5              | 22.50        | 22.50 | 22.40 | 20.59         | 20.49 | 20.91        |



## A2. GSM

### Peak-to-Average Ratio

| Mode       | GSM850       |              | Limit: 13dB |
|------------|--------------|--------------|-------------|
| Mod.       | GPRS class 8 | EDGE class 8 | Result      |
| Lowest CH  | 0.44         | 3.60         | PASS        |
| Middle CH  | 0.44         | 3.52         |             |
| Highest CH | 0.44         | 3.68         |             |

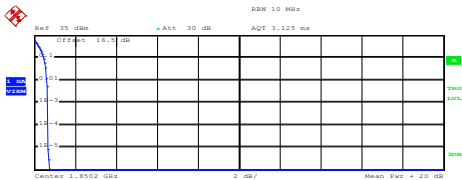
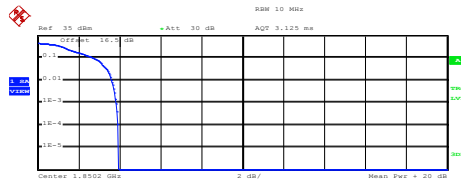
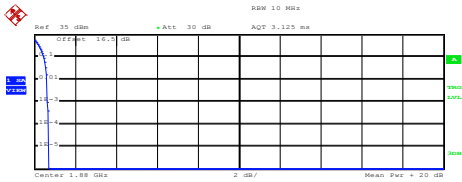
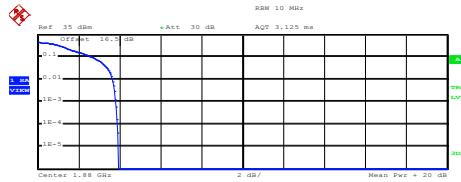
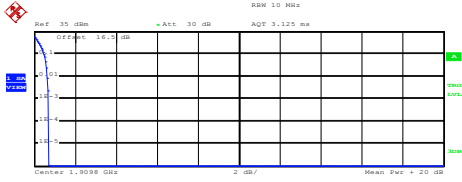
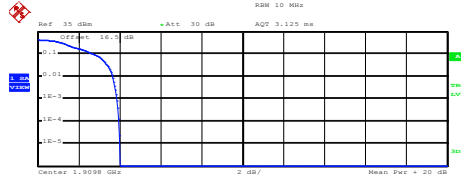
| Mode       | GSM1900      |              | Limit: 13dB |
|------------|--------------|--------------|-------------|
| Mod.       | GPRS class 8 | EDGE class 8 | Result      |
| Lowest CH  | 0.68         | 3.84         | PASS        |
| Middle CH  | 0.64         | 3.80         |             |
| Highest CH | 0.72         | 3.88         |             |





| GSM850 (GPRS class 8)  | GSM850 (EDGE class 8) |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
|--|-----------------------|---------|-----|---------|------|---------|-------|---------|--|------|---------|-----|---------|------|---------|-------|---------|
| <p style="text-align: center;"><b>Lowest Channel</b></p> <p>Ref: 35 dBm    RBW: 10 MHz    AQT: 3.125 ms<br/> Att: 30 dB<br/> Center: 824.2 MHz    2 dB/Hz    Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/> Trace 1<br/> Mean: 13.86 dBm<br/> Peak: 14.44 dBm<br/> Crest: 0.58 dB</p> <table border="1"> <tr><td>10 %</td><td>0.28 dB</td></tr> <tr><td>1 %</td><td>0.40 dB</td></tr> <tr><td>.1 %</td><td>0.44 dB</td></tr> <tr><td>.01 %</td><td>0.52 dB</td></tr> </table> <p>Date: 15.SEP.2018 09:22:53</p>  | 10 %                  | 0.28 dB | 1 % | 0.40 dB | .1 % | 0.44 dB | .01 % | 0.52 dB | <p style="text-align: center;"><b>Lowest Channel</b></p> <p>Ref: 35 dBm    RBW: 10 MHz    AQT: 3.125 ms<br/> Att: 30 dB<br/> Center: 824.2 MHz    2 dB/Hz    Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/> Trace 1<br/> Mean: 27.49 dBm<br/> Peak: 31.16 dBm<br/> Crest: 3.67 dB</p> <table border="1"> <tr><td>10 %</td><td>2.76 dB</td></tr> <tr><td>1 %</td><td>3.44 dB</td></tr> <tr><td>.1 %</td><td>3.60 dB</td></tr> <tr><td>.01 %</td><td>3.68 dB</td></tr> </table> <p>Date: 15.SEP.2018 09:50:03</p>  | 10 % | 2.76 dB | 1 % | 3.44 dB | .1 % | 3.60 dB | .01 % | 3.68 dB |
| 10 %   | 0.28 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| 1 %  | 0.40 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| .1 %   | 0.44 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| .01 %  | 0.52 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| 10 %   | 2.76 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| 1 %  | 3.44 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| .1 %   | 3.60 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| .01 %  | 3.68 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| <p style="text-align: center;"><b>Middle Channel</b></p> <p>Ref: 35 dBm    RBW: 10 MHz    AQT: 3.125 ms<br/> Att: 30 dB<br/> Center: 836.4 MHz    2 dB/Hz    Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/> Trace 1<br/> Mean: 14.50 dBm<br/> Peak: 15.01 dBm<br/> Crest: 0.50 dB</p> <table border="1"> <tr><td>10 %</td><td>0.28 dB</td></tr> <tr><td>1 %</td><td>0.36 dB</td></tr> <tr><td>.1 %</td><td>0.44 dB</td></tr> <tr><td>.01 %</td><td>0.52 dB</td></tr> </table> <p>Date: 15.SEP.2018 09:23:10</p>  | 10 %                  | 0.28 dB | 1 % | 0.36 dB | .1 % | 0.44 dB | .01 % | 0.52 dB | <p style="text-align: center;"><b>Middle Channel</b></p> <p>Ref: 35 dBm    RBW: 10 MHz    AQT: 3.125 ms<br/> Att: 30 dB<br/> Center: 836.4 MHz    2 dB/Hz    Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/> Trace 1<br/> Mean: 27.52 dBm<br/> Peak: 31.16 dBm<br/> Crest: 3.64 dB</p> <table border="1"> <tr><td>10 %</td><td>2.68 dB</td></tr> <tr><td>1 %</td><td>3.40 dB</td></tr> <tr><td>.1 %</td><td>3.52 dB</td></tr> <tr><td>.01 %</td><td>3.60 dB</td></tr> </table> <p>Date: 15.SEP.2018 09:50:20</p>  | 10 % | 2.68 dB | 1 % | 3.40 dB | .1 % | 3.52 dB | .01 % | 3.60 dB |
| 10 %   | 0.28 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| 1 %  | 0.36 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| .1 %   | 0.44 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| .01 %  | 0.52 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| 10 %   | 2.68 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| 1 %  | 3.40 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| .1 %   | 3.52 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| .01 %  | 3.60 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| <p style="text-align: center;"><b>Highest Channel</b></p> <p>Ref: 35 dBm    RBW: 10 MHz    AQT: 3.125 ms<br/> Att: 30 dB<br/> Center: 848.8 MHz    2 dB/Hz    Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/> Trace 1<br/> Mean: 15.03 dBm<br/> Peak: 15.57 dBm<br/> Crest: 0.54 dB</p> <table border="1"> <tr><td>10 %</td><td>0.28 dB</td></tr> <tr><td>1 %</td><td>0.36 dB</td></tr> <tr><td>.1 %</td><td>0.44 dB</td></tr> <tr><td>.01 %</td><td>0.48 dB</td></tr> </table> <p>Date: 15.SEP.2018 09:23:31</p> | 10 %                  | 0.28 dB | 1 % | 0.36 dB | .1 % | 0.44 dB | .01 % | 0.48 dB | <p style="text-align: center;"><b>Highest Channel</b></p> <p>Ref: 35 dBm    RBW: 10 MHz    AQT: 3.125 ms<br/> Att: 30 dB<br/> Center: 848.8 MHz    2 dB/Hz    Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/> Trace 1<br/> Mean: 27.33 dBm<br/> Peak: 31.16 dBm<br/> Crest: 3.83 dB</p> <table border="1"> <tr><td>10 %</td><td>2.76 dB</td></tr> <tr><td>1 %</td><td>3.52 dB</td></tr> <tr><td>.1 %</td><td>3.68 dB</td></tr> <tr><td>.01 %</td><td>3.76 dB</td></tr> </table> <p>Date: 15.SEP.2018 09:50:40</p> | 10 % | 2.76 dB | 1 % | 3.52 dB | .1 % | 3.68 dB | .01 % | 3.76 dB |
| 10 %   | 0.28 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| 1 %  | 0.36 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| .1 %   | 0.44 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| .01 %  | 0.48 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| 10 %   | 2.76 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| 1 %  | 3.52 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| .1 %   | 3.68 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |
| .01 %  | 3.76 dB               |         |     |         |      |         |       |         |  |      |         |     |         |      |         |       |         |



| GSM1900 (GPRS class 8)   | GSM1900 (EDGE class 8) |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
|--|------------------------|---------|-----|---------|------|---------|-------|---------|---|------|---------|-----|---------|------|---------|-------|---------|
| Lowest Channel   | Lowest Channel         |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
|  <p>Ref: 35 dBm    RBW: 10 MHz    AQT: 3.125 ms<br/> Att: 30 dB</p> <p>Center: 1.8502 GHz    2 dB/Div    Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/> Trace 1<br/> Mean: 29.58 dBm<br/> Peak: 30.32 dBm<br/> Crest: 0.74 dB</p> <table border="1"> <tr><td>10 %</td><td>0.48 dB</td></tr> <tr><td>1 %</td><td>0.60 dB</td></tr> <tr><td>.1 %</td><td>0.68 dB</td></tr> <tr><td>.01 %</td><td>0.68 dB</td></tr> </table> <p>Date: 15.SEP.2018 10:04:39</p>   | 10 %                   | 0.48 dB | 1 % | 0.60 dB | .1 % | 0.68 dB | .01 % | 0.68 dB |  <p>Ref: 35 dBm    RBW: 10 MHz    AQT: 3.125 ms<br/> Att: 30 dB</p> <p>Center: 1.8502 GHz    2 dB/Div    Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/> Trace 1<br/> Mean: 24.48 dBm<br/> Peak: 28.41 dBm<br/> Crest: 3.93 dB</p> <table border="1"> <tr><td>10 %</td><td>2.76 dB</td></tr> <tr><td>1 %</td><td>3.60 dB</td></tr> <tr><td>.1 %</td><td>3.84 dB</td></tr> <tr><td>.01 %</td><td>3.92 dB</td></tr> </table> <p>Date: 15.SEP.2018 10:24:44</p>   | 10 % | 2.76 dB | 1 % | 3.60 dB | .1 % | 3.84 dB | .01 % | 3.92 dB |
| 10 %   | 0.48 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| 1 %  | 0.60 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| .1 %   | 0.68 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| .01 %  | 0.68 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| 10 %   | 2.76 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| 1 %  | 3.60 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| .1 %   | 3.84 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| .01 %  | 3.92 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| Middle Channel   | Middle Channel         |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
|  <p>Ref: 35 dBm    RBW: 10 MHz    AQT: 3.125 ms<br/> Att: 30 dB</p> <p>Center: 1.88 GHz    2 dB/Div    Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/> Trace 1<br/> Mean: 29.61 dBm<br/> Peak: 30.32 dBm<br/> Crest: 0.71 dB</p> <table border="1"> <tr><td>10 %</td><td>0.48 dB</td></tr> <tr><td>1 %</td><td>0.60 dB</td></tr> <tr><td>.1 %</td><td>0.64 dB</td></tr> <tr><td>.01 %</td><td>0.72 dB</td></tr> </table> <p>Date: 15.SEP.2018 10:04:56</p>    | 10 %                   | 0.48 dB | 1 % | 0.60 dB | .1 % | 0.64 dB | .01 % | 0.72 dB |  <p>Ref: 35 dBm    RBW: 10 MHz    AQT: 3.125 ms<br/> Att: 30 dB</p> <p>Center: 1.88 GHz    2 dB/Div    Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/> Trace 1<br/> Mean: 24.84 dBm<br/> Peak: 28.76 dBm<br/> Crest: 3.93 dB</p> <table border="1"> <tr><td>10 %</td><td>2.68 dB</td></tr> <tr><td>1 %</td><td>3.64 dB</td></tr> <tr><td>.1 %</td><td>3.80 dB</td></tr> <tr><td>.01 %</td><td>3.92 dB</td></tr> </table> <p>Date: 15.SEP.2018 10:25:03</p>    | 10 % | 2.68 dB | 1 % | 3.64 dB | .1 % | 3.80 dB | .01 % | 3.92 dB |
| 10 %   | 0.48 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| 1 %  | 0.60 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| .1 %   | 0.64 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| .01 %  | 0.72 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| 10 %   | 2.68 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| 1 %  | 3.64 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| .1 %   | 3.80 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| .01 %  | 3.92 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| Highest Channel  | Highest Channel        |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
|  <p>Ref: 35 dBm    RBW: 10 MHz    AQT: 3.125 ms<br/> Att: 30 dB</p> <p>Center: 1.9098 GHz    2 dB/Div    Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/> Trace 1<br/> Mean: 29.20 dBm<br/> Peak: 29.89 dBm<br/> Crest: 0.69 dB</p> <table border="1"> <tr><td>10 %</td><td>0.48 dB</td></tr> <tr><td>1 %</td><td>0.64 dB</td></tr> <tr><td>.1 %</td><td>0.72 dB</td></tr> <tr><td>.01 %</td><td>0.72 dB</td></tr> </table> <p>Date: 15.SEP.2018 10:05:13</p> | 10 %                   | 0.48 dB | 1 % | 0.64 dB | .1 % | 0.72 dB | .01 % | 0.72 dB |  <p>Ref: 35 dBm    RBW: 10 MHz    AQT: 3.125 ms<br/> Att: 30 dB</p> <p>Center: 1.9098 GHz    2 dB/Div    Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/> Trace 1<br/> Mean: 24.90 dBm<br/> Peak: 28.90 dBm<br/> Crest: 4.00 dB</p> <table border="1"> <tr><td>10 %</td><td>2.76 dB</td></tr> <tr><td>1 %</td><td>3.68 dB</td></tr> <tr><td>.1 %</td><td>3.88 dB</td></tr> <tr><td>.01 %</td><td>3.96 dB</td></tr> </table> <p>Date: 15.SEP.2018 10:25:24</p> | 10 % | 2.76 dB | 1 % | 3.68 dB | .1 % | 3.88 dB | .01 % | 3.96 dB |
| 10 %   | 0.48 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| 1 %  | 0.64 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| .1 %   | 0.72 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| .01 %  | 0.72 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| 10 %   | 2.76 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| 1 %  | 3.68 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| .1 %   | 3.88 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |
| .01 %  | 3.96 dB                |         |     |         |      |         |       |         |   |      |         |     |         |      |         |       |         |



**26dB Bandwidth**

| Mode       | GSM850 : 26dB BW(MHz) |              |
|------------|-----------------------|--------------|
| Mod.       | GPRS class 8          | EDGE class 8 |
| Lowest CH  | 0.314                 | 0.299        |
| Middle CH  | 0.312                 | 0.298        |
| Highest CH | 0.314                 | 0.297        |

| Mode       | GSM1900 : 26dB BW(MHz) |              |
|------------|------------------------|--------------|
| Mod.       | GPRS class 8           | EDGE class 8 |
| Lowest CH  | 0.307                  | 0.299        |
| Middle CH  | 0.312                  | 0.302        |
| Highest CH | 0.308                  | 0.306        |



| GSM850 (GPRS class 8)  | GSM850 (EDGE class 8)   |
|--|---|
| Lowest Channel   | Lowest Channel  |
| <p>Ref: 35 dBm, Att: 30 dB, RBW: 3 kHz, VBW: 10 kHz, SWT: 115 ms, Marker 1 [T1]: 824.16000000 MHz, 6.07 dBm. Peak level: -15.98 dBm.</p> <p>Date: 15.SEP.2018 09:12:45</p> | <p>Ref: 35 dBm, Att: 30 dB, RBW: 3 kHz, VBW: 10 kHz, SWT: 115 ms, Marker 1 [T1]: 824.22200000 MHz, 18.94 dBm. Peak level: -15.85 dBm.</p> <p>Date: 15.SEP.2018 09:25:24</p> |
| Middle Channel   | Middle Channel  |
| <p>Ref: 35 dBm, Att: 30 dB, RBW: 3 kHz, VBW: 10 kHz, SWT: 115 ms, Marker 1 [T1]: 836.37000000 MHz, 7.13 dBm. Peak level: -15.98 dBm.</p> <p>Date: 15.SEP.2018 09:13:21</p> | <p>Ref: 35 dBm, Att: 30 dB, RBW: 3 kHz, VBW: 10 kHz, SWT: 115 ms, Marker 1 [T1]: 836.44800000 MHz, 20.47 dBm. Peak level: -15.28 dBm.</p> <p>Date: 15.SEP.2018 09:25:58</p> |
| Highest Channel  | Highest Channel   |
| <p>Ref: 35 dBm, Att: 30 dB, RBW: 3 kHz, VBW: 10 kHz, SWT: 115 ms, Marker 1 [T1]: 848.81700000 MHz, 5.42 dBm. Peak level: -15.74 dBm.</p> <p>Date: 15.SEP.2018 09:13:55</p> | <p>Ref: 35 dBm, Att: 30 dB, RBW: 3 kHz, VBW: 10 kHz, SWT: 115 ms, Marker 1 [T1]: 848.77600000 MHz, 21.09 dBm. Peak level: -15.36 dBm.</p> <p>Date: 15.SEP.2018 09:26:41</p> |



| GSM1900 (GPRS class 8)   | GSM1900 (EDGE class 8)   |
|--|--|
| <p style="text-align: center;"><b>Lowest Channel</b></p> <p>Ref 35 dBm +Att 30 dB +RSW 3 kHz +VSW 10 kHz Marker 1 [T1] 22.22 dBm<br/>SWT 115 ms 1.85019000 GHz</p> <p>OSQ 10.5 dB</p> <p>dBm [T1] 24.00 dBm<br/>Temp 1 [T1] not<br/>-4.62 dBm<br/>1.85005000 GHz<br/>Temp 2 [T1] not<br/>-4.14 dBm<br/>1.85035000 GHz</p> <p>Center 1.8502 GHz 100 kHz/ Span 1 MHz</p> <p>Date: 15.SEP.2018 09:52:53</p>     | <p style="text-align: center;"><b>Lowest Channel</b></p> <p>Ref 35 dBm +Att 30 dB +RSW 3 kHz +VSW 10 kHz Marker 1 [T1] 17.07 dBm<br/>SWT 115 ms 1.850207000 GHz</p> <p>OSQ 10.5 dB</p> <p>dBm [T1] 24.00 dBm<br/>Temp 1 [T1] not<br/>-7.83 dBm<br/>1.85001000 GHz<br/>Temp 2 [T1] not<br/>-6.85 dBm<br/>1.85035000 GHz</p> <p>Center 1.8502 GHz 100 kHz/ Span 1 MHz</p> <p>Date: 15.SEP.2018 10:14:30</p>    |
| <p style="text-align: center;"><b>Middle Channel</b></p> <p>Ref 35 dBm +Att 30 dB +RSW 3 kHz +VSW 10 kHz Marker 1 [T1] 22.22 dBm<br/>SWT 115 ms 1.879990000 GHz</p> <p>OSQ 10.5 dB</p> <p>dBm [T1] 24.00 dBm<br/>Temp 1 [T1] not<br/>-4.50 dBm<br/>1.879840000 GHz<br/>Temp 2 [T1] not<br/>-4.06 dBm<br/>1.880190000 GHz</p> <p>Center 1.88 GHz 100 kHz/ Span 1 MHz</p> <p>Date: 15.SEP.2018 09:53:27</p>    | <p style="text-align: center;"><b>Middle Channel</b></p> <p>Ref 35 dBm +Att 30 dB +RSW 3 kHz +VSW 10 kHz Marker 1 [T1] 16.72 dBm<br/>SWT 115 ms 1.879976000 GHz</p> <p>OSQ 10.5 dB</p> <p>dBm [T1] 24.00 dBm<br/>Temp 1 [T1] not<br/>-5.81 dBm<br/>1.879830000 GHz<br/>Temp 2 [T1] not<br/>-4.86 dBm<br/>1.880190000 GHz</p> <p>Center 1.88 GHz 100 kHz/ Span 1 MHz</p> <p>Date: 15.SEP.2018 10:15:35</p>    |
| <p style="text-align: center;"><b>Highest Channel</b></p> <p>Ref 35 dBm +Att 30 dB +RSW 3 kHz +VSW 10 kHz Marker 1 [T1] 22.22 dBm<br/>SWT 115 ms 1.909750000 GHz</p> <p>OSQ 10.5 dB</p> <p>dBm [T1] 24.00 dBm<br/>Temp 1 [T1] not<br/>-5.90 dBm<br/>1.909640000 GHz<br/>Temp 2 [T1] not<br/>-4.18 dBm<br/>1.909950000 GHz</p> <p>Center 1.9098 GHz 100 kHz/ Span 1 MHz</p> <p>Date: 15.SEP.2018 09:54:03</p> | <p style="text-align: center;"><b>Highest Channel</b></p> <p>Ref 35 dBm +Att 30 dB +RSW 3 kHz +VSW 10 kHz Marker 1 [T1] 17.61 dBm<br/>SWT 115 ms 1.909803000 GHz</p> <p>OSQ 10.5 dB</p> <p>dBm [T1] 24.00 dBm<br/>Temp 1 [T1] not<br/>-5.94 dBm<br/>1.909640000 GHz<br/>Temp 2 [T1] not<br/>-4.96 dBm<br/>1.909950000 GHz</p> <p>Center 1.9098 GHz 100 kHz/ Span 1 MHz</p> <p>Date: 15.SEP.2018 10:16:32</p> |



**Occupied Bandwidth**

| Mode       | GSM850 : 99% OBW(MHz) |              |
|------------|-----------------------|--------------|
| Mod.       | GPRS class 8          | EDGE class 8 |
| Lowest CH  | 0.247                 | 0.247        |
| Middle CH  | 0.248                 | 0.245        |
| Highest CH | 0.243                 | 0.241        |

| Mode       | GSM1900 : 99% OBW(MHz) |              |
|------------|------------------------|--------------|
| Mod.       | GPRS class 8           | EDGE class 8 |
| Lowest CH  | 0.241                  | 0.243        |
| Middle CH  | 0.245                  | 0.246        |
| Highest CH | 0.248                  | 0.245        |



| GSM850 (GPRS class 8)  | GSM850 (EDGE class 8)  |
|--|--|
| Lowest Channel   | Lowest Channel   |
| <p>Ref 35 dBm +Att 30 dB +RSW 10 kHz +VSW 30 kHz SWT 10 ms Marker 1 [F1] 11.03 dBm<br/>       Center 824.2 MHz 100 kHz/ Span 1 MHz<br/>       Date: 15.SEP.2018 09:14:44</p> | <p>Ref 35 dBm +Att 30 dB +RSW 10 kHz +VSW 30 kHz SWT 10 ms Marker 1 [F1] 24.39 dBm<br/>       Center 824.2 MHz 100 kHz/ Span 1 MHz<br/>       Date: 15.SEP.2018 09:27:23</p> |
| Middle Channel   | Middle Channel   |
| <p>Ref 35 dBm +Att 30 dB +RSW 10 kHz +VSW 30 kHz SWT 10 ms Marker 1 [F1] 11.55 dBm<br/>       Center 836.4 MHz 100 kHz/ Span 1 MHz<br/>       Date: 15.SEP.2018 09:15:20</p> | <p>Ref 35 dBm +Att 30 dB +RSW 10 kHz +VSW 30 kHz SWT 10 ms Marker 1 [F1] 24.55 dBm<br/>       Center 836.4 MHz 100 kHz/ Span 1 MHz<br/>       Date: 15.SEP.2018 09:27:56</p> |
| Highest Channel  | Highest Channel  |
| <p>Ref 35 dBm +Att 30 dB +RSW 10 kHz +VSW 30 kHz SWT 10 ms Marker 1 [F1] 11.86 dBm<br/>       Center 848.8 MHz 100 kHz/ Span 1 MHz<br/>       Date: 15.SEP.2018 09:15:56</p> | <p>Ref 35 dBm +Att 30 dB +RSW 10 kHz +VSW 30 kHz SWT 10 ms Marker 1 [F1] 24.24 dBm<br/>       Center 848.8 MHz 100 kHz/ Span 1 MHz<br/>       Date: 15.SEP.2018 09:28:31</p> |



| GSM1900 (GPRS class 8)  | GSM1900 (EDGE class 8)  |
|---|---|
| <p style="text-align: center;"><b>Lowest Channel</b></p> <p>Date: 15.SEP.2018 09:55:19</p>  | <p style="text-align: center;"><b>Lowest Channel</b></p> <p>Date: 15.SEP.2018 10:17:11</p>  |
| <p style="text-align: center;"><b>Middle Channel</b></p> <p>Date: 15.SEP.2018 09:55:52</p>  | <p style="text-align: center;"><b>Middle Channel</b></p> <p>Date: 15.SEP.2018 10:17:44</p>  |
| <p style="text-align: center;"><b>Highest Channel</b></p> <p>Date: 15.SEP.2018 09:56:25</p> | <p style="text-align: center;"><b>Highest Channel</b></p> <p>Date: 15.SEP.2018 10:18:18</p> |

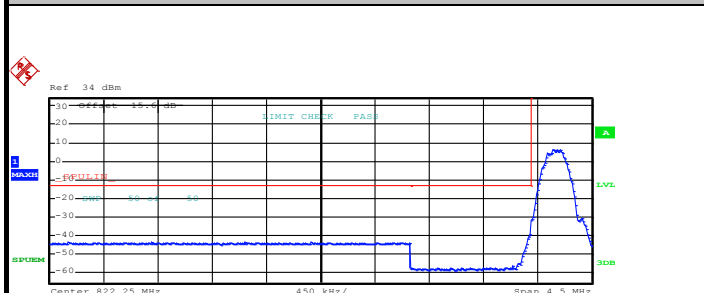




# Conducted Band Edge

## GSM850 (GPRS class 8)

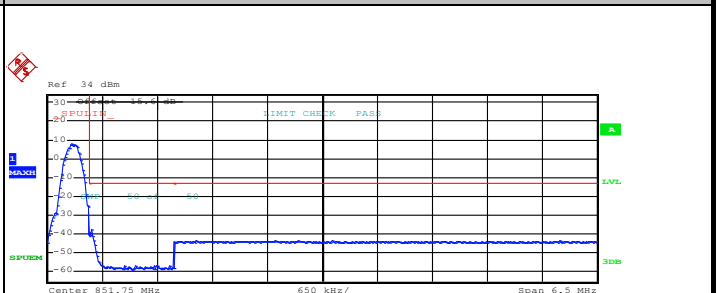
### Lowest Band Edge



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz]    | PwrAbs [dBm] | ΔLimit [dB] |
|------------|-----------|----------|--------------|--------------|-------------|
| 820.000 M  | 823.000 M | 100.00 k | 822.843000 M | -43.62       | -30.62      |
| 823.000 M  | 824.000 M | 3.00 k   | 823.980000 M | -39.62       | -26.62      |
| 824.000 M  | 824.500 M | 10.00 k  | 824.183500 M | 6.39         | -28.61      |

Date: 15.SEP.2018 09:17:36

### Highest Band Edge

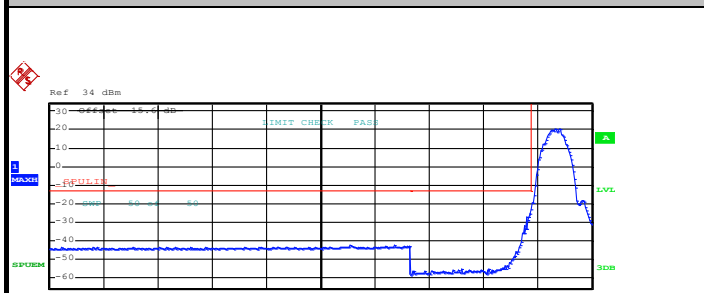


| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz]    | PwrAbs [dBm] | ΔLimit [dB] |
|------------|-----------|----------|--------------|--------------|-------------|
| 848.500 M  | 849.000 M | 10.00 k  | 848.783500 M | 7.91         | -27.09      |
| 849.000 M  | 850.000 M | 3.00 k   | 849.020000 M | -37.81       | -24.81      |
| 850.000 M  | 855.000 M | 100.00 k | 851.860000 M | -43.37       | -30.37      |

Date: 15.SEP.2018 09:19:08

## GSM850 (EDGE class 8)

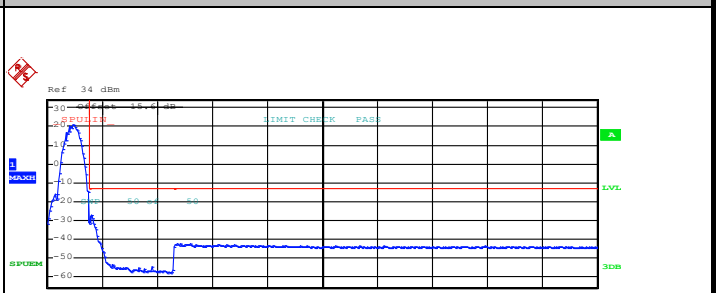
### Lowest Band Edge



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz]    | PwrAbs [dBm] | ΔLimit [dB] |
|------------|-----------|----------|--------------|--------------|-------------|
| 820.000 M  | 823.000 M | 100.00 k | 822.862000 M | -42.49       | -29.49      |
| 823.000 M  | 824.000 M | 3.00 k   | 823.988000 M | -25.54       | -12.54      |
| 824.000 M  | 824.500 M | 10.00 k  | 824.236500 M | 20.51        | -14.49      |

Date: 15.SEP.2018 09:30:07

### Highest Band Edge



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz]    | PwrAbs [dBm] | ΔLimit [dB] |
|------------|-----------|----------|--------------|--------------|-------------|
| 848.500 M  | 849.000 M | 10.00 k  | 848.803500 M | 20.92        | -14.08      |
| 849.000 M  | 850.000 M | 3.00 k   | 849.016000 M | -27.07       | -14.07      |
| 850.000 M  | 855.000 M | 100.00 k | 850.065000 M | -42.24       | -29.24      |

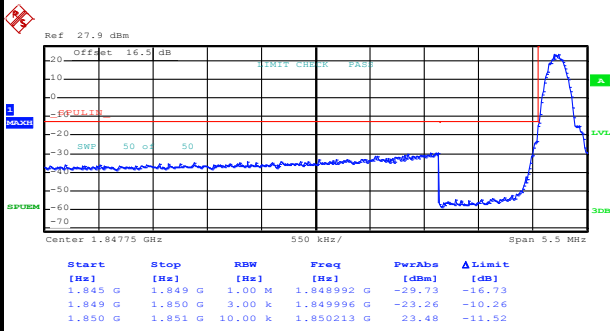
Date: 15.SEP.2018 09:31:45



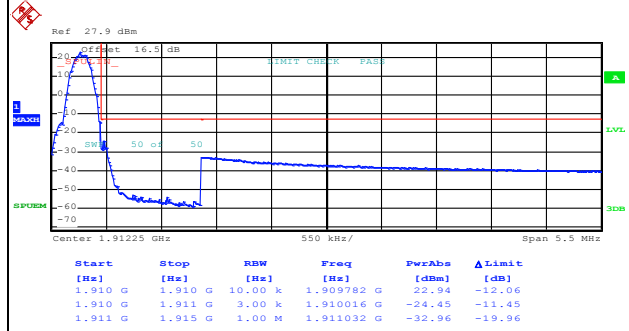
GSM1900 (GPRS class 8)

Lowest Band Edge

Highest Band Edge



Date: 15.SEP.2018 09:58:53

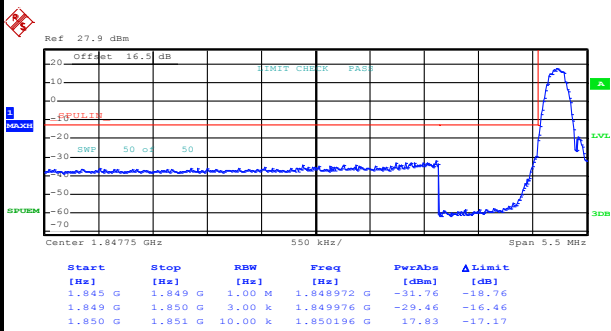


Date: 15.SEP.2018 10:00:32

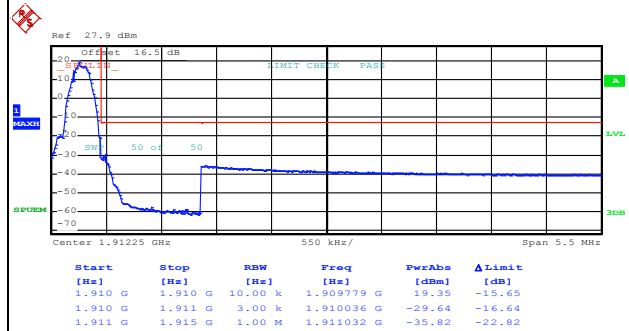
GSM1900 (EDGE class 8)

Lowest Band Edge

Highest Band Edge



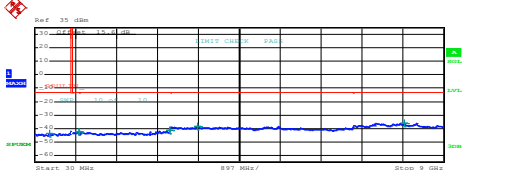
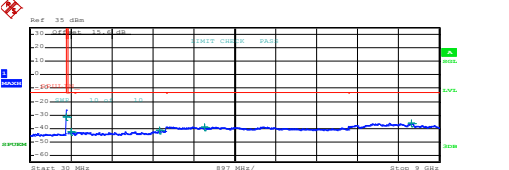
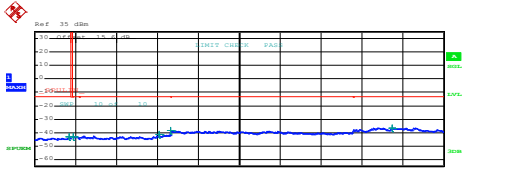
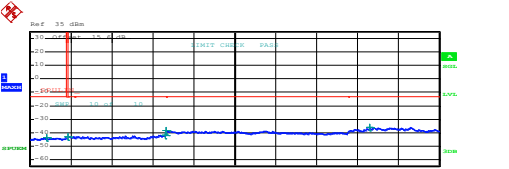
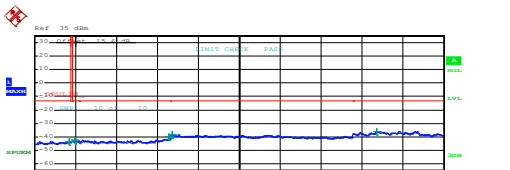
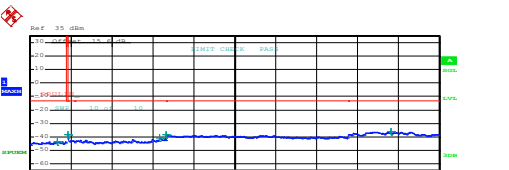
Date: 15.SEP.2018 10:20:03



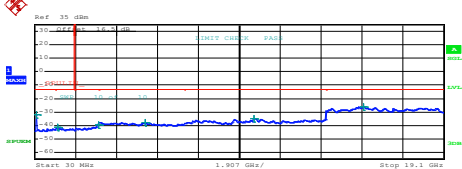
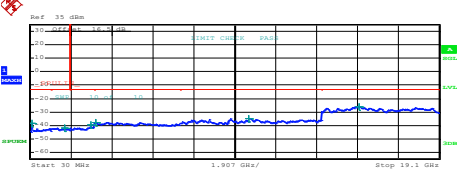
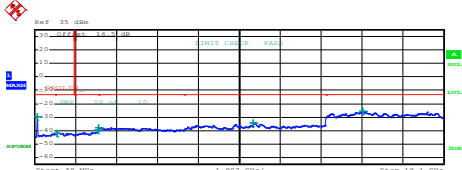
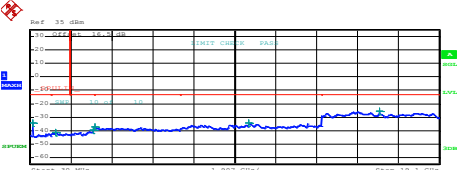
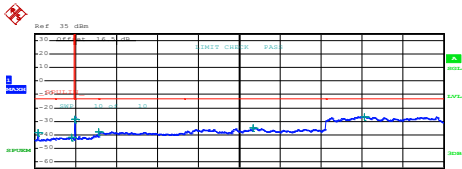
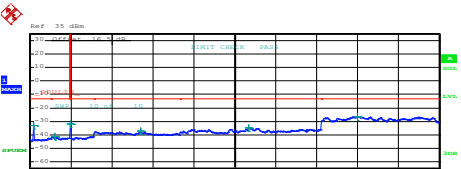
Date: 15.SEP.2018 10:21:36



# Conducted Spurious Emission

| GSM850 (GPRS class 8)   | GSM850 (EDGE class 8) |           |              |              |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
|---|-----------------------|-----------|--------------|--------------|--------------|-------------|----------|-----------|--------|--------------|--------|--------|-----------|---------|--------|--------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|---|------------|-----------|----------|-----------|--------------|-------------|----------|-----------|--------|--------------|--------|--------|-----------|---------|--------|--------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|
| Lowest Channel  | Lowest Channel        |           |              |              |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
|  <table border="1" data-bbox="239 660 686 739"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30.000 M</td> <td>820.000 M</td> <td>1.00 M</td> <td>352.122500 M</td> <td>-43.48</td> <td>-30.48</td> </tr> <tr> <td>855.000 M</td> <td>1.000 G</td> <td>1.00 M</td> <td>997.680010 M</td> <td>-42.76</td> <td>-29.76</td> </tr> <tr> <td>1.000 G</td> <td>3.000 G</td> <td>1.00 M</td> <td>2.982000 G</td> <td>-42.24</td> <td>-28.24</td> </tr> <tr> <td>3.000 G</td> <td>7.000 G</td> <td>1.00 M</td> <td>3.595000 G</td> <td>-38.53</td> <td>-25.53</td> </tr> <tr> <td>7.000 G</td> <td>9.000 G</td> <td>1.00 M</td> <td>8.141000 G</td> <td>-36.05</td> <td>-23.05</td> </tr> </tbody> </table> <p>Date: 15.SEP.2018 09:20:49</p>     | Start [Hz]            | Stop [Hz] | RBW [Hz]     | Freq [Hz]    | PerAbs [dBm] | ΔLimit [dB] | 30.000 M | 820.000 M | 1.00 M | 352.122500 M | -43.48 | -30.48 | 855.000 M | 1.000 G | 1.00 M | 997.680010 M | -42.76 | -29.76 | 1.000 G | 3.000 G | 1.00 M | 2.982000 G | -42.24 | -28.24 | 3.000 G | 7.000 G | 1.00 M | 3.595000 G | -38.53 | -25.53 | 7.000 G | 9.000 G | 1.00 M | 8.141000 G | -36.05 | -23.05 |  <table border="1" data-bbox="893 660 1340 739"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30.000 M</td> <td>820.000 M</td> <td>1.00 M</td> <td>819.802500 M</td> <td>-31.32</td> <td>-18.32</td> </tr> <tr> <td>855.000 M</td> <td>1.000 G</td> <td>1.00 M</td> <td>923.186255 M</td> <td>-42.41</td> <td>-29.41</td> </tr> <tr> <td>1.000 G</td> <td>3.000 G</td> <td>1.00 M</td> <td>2.887500 G</td> <td>-41.30</td> <td>-28.30</td> </tr> <tr> <td>3.000 G</td> <td>7.000 G</td> <td>1.00 M</td> <td>3.848000 G</td> <td>-38.77</td> <td>-25.77</td> </tr> <tr> <td>7.000 G</td> <td>9.000 G</td> <td>1.00 M</td> <td>8.384000 G</td> <td>-36.24</td> <td>-23.24</td> </tr> </tbody> </table> <p>Date: 15.SEP.2018 09:47:43</p>     | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | 30.000 M | 820.000 M | 1.00 M | 819.802500 M | -31.32 | -18.32 | 855.000 M | 1.000 G | 1.00 M | 923.186255 M | -42.41 | -29.41 | 1.000 G | 3.000 G | 1.00 M | 2.887500 G | -41.30 | -28.30 | 3.000 G | 7.000 G | 1.00 M | 3.848000 G | -38.77 | -25.77 | 7.000 G | 9.000 G | 1.00 M | 8.384000 G | -36.24 | -23.24 |
| Start [Hz]  | Stop [Hz]             | RBW [Hz]  | Freq [Hz]    | PerAbs [dBm] | ΔLimit [dB]  |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 30.000 M  | 820.000 M             | 1.00 M    | 352.122500 M | -43.48       | -30.48       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 855.000 M   | 1.000 G               | 1.00 M    | 997.680010 M | -42.76       | -29.76       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 1.000 G   | 3.000 G               | 1.00 M    | 2.982000 G   | -42.24       | -28.24       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 3.000 G   | 7.000 G               | 1.00 M    | 3.595000 G   | -38.53       | -25.53       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 7.000 G   | 9.000 G               | 1.00 M    | 8.141000 G   | -36.05       | -23.05       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| Start [Hz]  | Stop [Hz]             | RBW [Hz]  | Freq [Hz]    | PerAbs [dBm] | ΔLimit [dB]  |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 30.000 M  | 820.000 M             | 1.00 M    | 819.802500 M | -31.32       | -18.32       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 855.000 M   | 1.000 G               | 1.00 M    | 923.186255 M | -42.41       | -29.41       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 1.000 G   | 3.000 G               | 1.00 M    | 2.887500 G   | -41.30       | -28.30       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 3.000 G   | 7.000 G               | 1.00 M    | 3.848000 G   | -38.77       | -25.77       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 7.000 G   | 9.000 G               | 1.00 M    | 8.384000 G   | -36.24       | -23.24       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| Middle Channel  | Middle Channel        |           |              |              |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
|  <table border="1" data-bbox="239 1176 686 1254"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30.000 M</td> <td>820.000 M</td> <td>1.00 M</td> <td>789.285000 M</td> <td>-43.32</td> <td>-30.32</td> </tr> <tr> <td>855.000 M</td> <td>1.000 G</td> <td>1.00 M</td> <td>878.297001 M</td> <td>-43.00</td> <td>-30.00</td> </tr> <tr> <td>1.000 G</td> <td>3.000 G</td> <td>1.00 M</td> <td>2.762500 G</td> <td>-41.39</td> <td>-28.39</td> </tr> <tr> <td>3.000 G</td> <td>7.000 G</td> <td>1.00 M</td> <td>3.007000 G</td> <td>-38.67</td> <td>-25.67</td> </tr> <tr> <td>7.000 G</td> <td>9.000 G</td> <td>1.00 M</td> <td>7.872000 G</td> <td>-36.44</td> <td>-23.44</td> </tr> </tbody> </table> <p>Date: 15.SEP.2018 09:21:40</p>  | Start [Hz]            | Stop [Hz] | RBW [Hz]     | Freq [Hz]    | PerAbs [dBm] | ΔLimit [dB] | 30.000 M | 820.000 M | 1.00 M | 789.285000 M | -43.32 | -30.32 | 855.000 M | 1.000 G | 1.00 M | 878.297001 M | -43.00 | -30.00 | 1.000 G | 3.000 G | 1.00 M | 2.762500 G | -41.39 | -28.39 | 3.000 G | 7.000 G | 1.00 M | 3.007000 G | -38.67 | -25.67 | 7.000 G | 9.000 G | 1.00 M | 7.872000 G | -36.44 | -23.44 |  <table border="1" data-bbox="893 1176 1340 1254"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30.000 M</td> <td>820.000 M</td> <td>1.00 M</td> <td>383.130000 M</td> <td>-43.65</td> <td>-30.65</td> </tr> <tr> <td>855.000 M</td> <td>1.000 G</td> <td>1.00 M</td> <td>864.026251 M</td> <td>-42.79</td> <td>-29.79</td> </tr> <tr> <td>1.000 G</td> <td>3.000 G</td> <td>1.00 M</td> <td>2.986500 G</td> <td>-41.64</td> <td>-28.64</td> </tr> <tr> <td>3.000 G</td> <td>7.000 G</td> <td>1.00 M</td> <td>3.011000 G</td> <td>-38.55</td> <td>-25.55</td> </tr> <tr> <td>7.000 G</td> <td>9.000 G</td> <td>1.00 M</td> <td>7.479000 G</td> <td>-36.16</td> <td>-23.16</td> </tr> </tbody> </table> <p>Date: 15.SEP.2018 09:48:37</p>  | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | 30.000 M | 820.000 M | 1.00 M | 383.130000 M | -43.65 | -30.65 | 855.000 M | 1.000 G | 1.00 M | 864.026251 M | -42.79 | -29.79 | 1.000 G | 3.000 G | 1.00 M | 2.986500 G | -41.64 | -28.64 | 3.000 G | 7.000 G | 1.00 M | 3.011000 G | -38.55 | -25.55 | 7.000 G | 9.000 G | 1.00 M | 7.479000 G | -36.16 | -23.16 |
| Start [Hz]  | Stop [Hz]             | RBW [Hz]  | Freq [Hz]    | PerAbs [dBm] | ΔLimit [dB]  |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 30.000 M  | 820.000 M             | 1.00 M    | 789.285000 M | -43.32       | -30.32       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 855.000 M   | 1.000 G               | 1.00 M    | 878.297001 M | -43.00       | -30.00       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 1.000 G   | 3.000 G               | 1.00 M    | 2.762500 G   | -41.39       | -28.39       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 3.000 G   | 7.000 G               | 1.00 M    | 3.007000 G   | -38.67       | -25.67       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 7.000 G   | 9.000 G               | 1.00 M    | 7.872000 G   | -36.44       | -23.44       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| Start [Hz]  | Stop [Hz]             | RBW [Hz]  | Freq [Hz]    | PerAbs [dBm] | ΔLimit [dB]  |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 30.000 M  | 820.000 M             | 1.00 M    | 383.130000 M | -43.65       | -30.65       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 855.000 M   | 1.000 G               | 1.00 M    | 864.026251 M | -42.79       | -29.79       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 1.000 G   | 3.000 G               | 1.00 M    | 2.986500 G   | -41.64       | -28.64       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 3.000 G   | 7.000 G               | 1.00 M    | 3.011000 G   | -38.55       | -25.55       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 7.000 G   | 9.000 G               | 1.00 M    | 7.479000 G   | -36.16       | -23.16       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| Highest Channel   | Highest Channel       |           |              |              |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
|  <table border="1" data-bbox="239 1691 686 1769"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30.000 M</td> <td>820.000 M</td> <td>1.00 M</td> <td>789.285000 M</td> <td>-43.67</td> <td>-30.67</td> </tr> <tr> <td>855.000 M</td> <td>1.000 G</td> <td>1.00 M</td> <td>900.602503 M</td> <td>-42.54</td> <td>-29.54</td> </tr> <tr> <td>1.000 G</td> <td>3.000 G</td> <td>1.00 M</td> <td>2.975000 G</td> <td>-40.39</td> <td>-27.39</td> </tr> <tr> <td>3.000 G</td> <td>7.000 G</td> <td>1.00 M</td> <td>3.040000 G</td> <td>-38.44</td> <td>-25.44</td> </tr> <tr> <td>7.000 G</td> <td>9.000 G</td> <td>1.00 M</td> <td>7.528000 G</td> <td>-35.90</td> <td>-22.90</td> </tr> </tbody> </table> <p>Date: 15.SEP.2018 09:22:30</p> | Start [Hz]            | Stop [Hz] | RBW [Hz]     | Freq [Hz]    | PerAbs [dBm] | ΔLimit [dB] | 30.000 M | 820.000 M | 1.00 M | 789.285000 M | -43.67 | -30.67 | 855.000 M | 1.000 G | 1.00 M | 900.602503 M | -42.54 | -29.54 | 1.000 G | 3.000 G | 1.00 M | 2.975000 G | -40.39 | -27.39 | 3.000 G | 7.000 G | 1.00 M | 3.040000 G | -38.44 | -25.44 | 7.000 G | 9.000 G | 1.00 M | 7.528000 G | -35.90 | -22.90 |  <table border="1" data-bbox="893 1691 1340 1769"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30.000 M</td> <td>820.000 M</td> <td>1.00 M</td> <td>618.350000 M</td> <td>-43.51</td> <td>-30.51</td> </tr> <tr> <td>855.000 M</td> <td>1.000 G</td> <td>1.00 M</td> <td>855.036250 M</td> <td>-38.29</td> <td>-25.29</td> </tr> <tr> <td>1.000 G</td> <td>3.000 G</td> <td>1.00 M</td> <td>2.836500 G</td> <td>-40.85</td> <td>-27.85</td> </tr> <tr> <td>3.000 G</td> <td>7.000 G</td> <td>1.00 M</td> <td>3.016000 G</td> <td>-38.63</td> <td>-25.63</td> </tr> <tr> <td>7.000 G</td> <td>9.000 G</td> <td>1.00 M</td> <td>7.949500 G</td> <td>-36.05</td> <td>-23.05</td> </tr> </tbody> </table> <p>Date: 15.SEP.2018 09:49:30</p> | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | 30.000 M | 820.000 M | 1.00 M | 618.350000 M | -43.51 | -30.51 | 855.000 M | 1.000 G | 1.00 M | 855.036250 M | -38.29 | -25.29 | 1.000 G | 3.000 G | 1.00 M | 2.836500 G | -40.85 | -27.85 | 3.000 G | 7.000 G | 1.00 M | 3.016000 G | -38.63 | -25.63 | 7.000 G | 9.000 G | 1.00 M | 7.949500 G | -36.05 | -23.05 |
| Start [Hz]  | Stop [Hz]             | RBW [Hz]  | Freq [Hz]    | PerAbs [dBm] | ΔLimit [dB]  |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 30.000 M  | 820.000 M             | 1.00 M    | 789.285000 M | -43.67       | -30.67       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 855.000 M   | 1.000 G               | 1.00 M    | 900.602503 M | -42.54       | -29.54       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 1.000 G   | 3.000 G               | 1.00 M    | 2.975000 G   | -40.39       | -27.39       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 3.000 G   | 7.000 G               | 1.00 M    | 3.040000 G   | -38.44       | -25.44       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 7.000 G   | 9.000 G               | 1.00 M    | 7.528000 G   | -35.90       | -22.90       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| Start [Hz]  | Stop [Hz]             | RBW [Hz]  | Freq [Hz]    | PerAbs [dBm] | ΔLimit [dB]  |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 30.000 M  | 820.000 M             | 1.00 M    | 618.350000 M | -43.51       | -30.51       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 855.000 M   | 1.000 G               | 1.00 M    | 855.036250 M | -38.29       | -25.29       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 1.000 G   | 3.000 G               | 1.00 M    | 2.836500 G   | -40.85       | -27.85       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 3.000 G   | 7.000 G               | 1.00 M    | 3.016000 G   | -38.63       | -25.63       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |
| 7.000 G   | 9.000 G               | 1.00 M    | 7.949500 G   | -36.05       | -23.05       |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |   |            |           |          |           |              |             |          |           |        |              |        |        |           |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |



| GSM1900 (GPRS class 8)  | GSM1900 (EDGE class 8) |           |              |              |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
|---|------------------------|-----------|--------------|--------------|--------------|-------------|----------|---------|--------|--------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|----------|--------|-------------|--------|--------|----------|----------|--------|-------------|--------|--------|---|------------|-----------|----------|-----------|--------------|-------------|----------|---------|--------|--------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|----------|--------|-------------|--------|--------|----------|----------|--------|-------------|--------|--------|
| Lowest Channel  | Lowest Channel         |           |              |              |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
|  <table border="1" data-bbox="239 577 638 667"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr><td>30.000 M</td><td>1.000 G</td><td>1.00 M</td><td>111.965000 M</td><td>-32.11</td><td>-19.13</td></tr> <tr><td>1.000 G</td><td>1.845 G</td><td>1.00 M</td><td>1.093161 G</td><td>-41.59</td><td>-28.59</td></tr> <tr><td>1.845 G</td><td>3.000 G</td><td>1.00 M</td><td>2.098919 G</td><td>-39.48</td><td>-26.48</td></tr> <tr><td>3.000 G</td><td>7.000 G</td><td>1.00 M</td><td>5.169000 G</td><td>-37.57</td><td>-24.57</td></tr> <tr><td>7.000 G</td><td>13.600 G</td><td>1.00 M</td><td>10.240000 G</td><td>-34.88</td><td>-21.88</td></tr> <tr><td>13.600 G</td><td>19.100 G</td><td>1.00 M</td><td>15.363438 G</td><td>-26.95</td><td>-13.05</td></tr> </tbody> </table> <p>Date: 15.SEP.2018 10:01:33</p>     | Start [Hz]             | Stop [Hz] | RBW [Hz]     | Freq [Hz]    | PwrAve [dBm] | ΔLimit [dB] | 30.000 M | 1.000 G | 1.00 M | 111.965000 M | -32.11 | -19.13 | 1.000 G | 1.845 G | 1.00 M | 1.093161 G | -41.59 | -28.59 | 1.845 G | 3.000 G | 1.00 M | 2.098919 G | -39.48 | -26.48 | 3.000 G | 7.000 G | 1.00 M | 5.169000 G | -37.57 | -24.57 | 7.000 G | 13.600 G | 1.00 M | 10.240000 G | -34.88 | -21.88 | 13.600 G | 19.100 G | 1.00 M | 15.363438 G | -26.95 | -13.05 |  <table border="1" data-bbox="893 577 1292 667"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr><td>30.000 M</td><td>1.000 G</td><td>1.00 M</td><td>111.722500 M</td><td>+38.22</td><td>-25.22</td></tr> <tr><td>1.000 G</td><td>1.845 G</td><td>1.00 M</td><td>1.630793 G</td><td>-41.95</td><td>-28.95</td></tr> <tr><td>1.845 G</td><td>3.000 G</td><td>1.00 M</td><td>2.858468 G</td><td>-39.82</td><td>-26.82</td></tr> <tr><td>3.000 G</td><td>7.000 G</td><td>1.00 M</td><td>3.076000 G</td><td>-37.65</td><td>-24.65</td></tr> <tr><td>7.000 G</td><td>13.600 G</td><td>1.00 M</td><td>10.220800 G</td><td>-34.84</td><td>-21.84</td></tr> <tr><td>13.600 G</td><td>19.100 G</td><td>1.00 M</td><td>15.361375 G</td><td>-26.66</td><td>-13.66</td></tr> </tbody> </table> <p>Date: 15.SEP.2018 10:22:34</p>     | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAve [dBm] | ΔLimit [dB] | 30.000 M | 1.000 G | 1.00 M | 111.722500 M | +38.22 | -25.22 | 1.000 G | 1.845 G | 1.00 M | 1.630793 G | -41.95 | -28.95 | 1.845 G | 3.000 G | 1.00 M | 2.858468 G | -39.82 | -26.82 | 3.000 G | 7.000 G | 1.00 M | 3.076000 G | -37.65 | -24.65 | 7.000 G | 13.600 G | 1.00 M | 10.220800 G | -34.84 | -21.84 | 13.600 G | 19.100 G | 1.00 M | 15.361375 G | -26.66 | -13.66 |
| Start [Hz]  | Stop [Hz]              | RBW [Hz]  | Freq [Hz]    | PwrAve [dBm] | ΔLimit [dB]  |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 30.000 M  | 1.000 G                | 1.00 M    | 111.965000 M | -32.11       | -19.13       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 1.000 G   | 1.845 G                | 1.00 M    | 1.093161 G   | -41.59       | -28.59       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 1.845 G   | 3.000 G                | 1.00 M    | 2.098919 G   | -39.48       | -26.48       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 3.000 G   | 7.000 G                | 1.00 M    | 5.169000 G   | -37.57       | -24.57       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 7.000 G   | 13.600 G               | 1.00 M    | 10.240000 G  | -34.88       | -21.88       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 13.600 G  | 19.100 G               | 1.00 M    | 15.363438 G  | -26.95       | -13.05       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| Start [Hz]  | Stop [Hz]              | RBW [Hz]  | Freq [Hz]    | PwrAve [dBm] | ΔLimit [dB]  |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 30.000 M  | 1.000 G                | 1.00 M    | 111.722500 M | +38.22       | -25.22       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 1.000 G   | 1.845 G                | 1.00 M    | 1.630793 G   | -41.95       | -28.95       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 1.845 G   | 3.000 G                | 1.00 M    | 2.858468 G   | -39.82       | -26.82       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 3.000 G   | 7.000 G                | 1.00 M    | 3.076000 G   | -37.65       | -24.65       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 7.000 G   | 13.600 G               | 1.00 M    | 10.220800 G  | -34.84       | -21.84       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 13.600 G  | 19.100 G               | 1.00 M    | 15.361375 G  | -26.66       | -13.66       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| Middle Channel  | Middle Channel         |           |              |              |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
|  <table border="1" data-bbox="239 1093 638 1182"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr><td>30.000 M</td><td>1.000 G</td><td>1.00 M</td><td>141.792500 M</td><td>-29.57</td><td>-16.57</td></tr> <tr><td>1.000 G</td><td>1.845 G</td><td>1.00 M</td><td>1.078786 G</td><td>-41.66</td><td>-28.66</td></tr> <tr><td>1.845 G</td><td>3.000 G</td><td>1.00 M</td><td>2.971519 G</td><td>-39.75</td><td>-26.75</td></tr> <tr><td>3.000 G</td><td>7.000 G</td><td>1.00 M</td><td>3.008000 G</td><td>-37.81</td><td>-24.81</td></tr> <tr><td>7.000 G</td><td>13.600 G</td><td>1.00 M</td><td>10.219225 G</td><td>-34.54</td><td>-21.54</td></tr> <tr><td>13.600 G</td><td>19.100 G</td><td>1.00 M</td><td>15.311188 G</td><td>-25.47</td><td>-12.47</td></tr> </tbody> </table> <p>Date: 15.SEP.2018 10:02:25</p>  | Start [Hz]             | Stop [Hz] | RBW [Hz]     | Freq [Hz]    | PwrAve [dBm] | ΔLimit [dB] | 30.000 M | 1.000 G | 1.00 M | 141.792500 M | -29.57 | -16.57 | 1.000 G | 1.845 G | 1.00 M | 1.078786 G | -41.66 | -28.66 | 1.845 G | 3.000 G | 1.00 M | 2.971519 G | -39.75 | -26.75 | 3.000 G | 7.000 G | 1.00 M | 3.008000 G | -37.81 | -24.81 | 7.000 G | 13.600 G | 1.00 M | 10.219225 G | -34.54 | -21.54 | 13.600 G | 19.100 G | 1.00 M | 15.311188 G | -25.47 | -12.47 |  <table border="1" data-bbox="893 1093 1292 1182"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr><td>30.000 M</td><td>1.000 G</td><td>1.00 M</td><td>141.792500 M</td><td>-34.42</td><td>-21.42</td></tr> <tr><td>1.000 G</td><td>1.845 G</td><td>1.00 M</td><td>1.022640 G</td><td>-43.36</td><td>-30.36</td></tr> <tr><td>1.845 G</td><td>3.000 G</td><td>1.00 M</td><td>2.981826 G</td><td>-39.79</td><td>-26.79</td></tr> <tr><td>3.000 G</td><td>7.000 G</td><td>1.00 M</td><td>3.039000 G</td><td>-37.54</td><td>-24.54</td></tr> <tr><td>7.000 G</td><td>13.600 G</td><td>1.00 M</td><td>10.230700 G</td><td>-34.58</td><td>-21.58</td></tr> <tr><td>13.600 G</td><td>19.100 G</td><td>1.00 M</td><td>16.313583 G</td><td>-25.66</td><td>-12.66</td></tr> </tbody> </table> <p>Date: 15.SEP.2018 10:23:25</p>  | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAve [dBm] | ΔLimit [dB] | 30.000 M | 1.000 G | 1.00 M | 141.792500 M | -34.42 | -21.42 | 1.000 G | 1.845 G | 1.00 M | 1.022640 G | -43.36 | -30.36 | 1.845 G | 3.000 G | 1.00 M | 2.981826 G | -39.79 | -26.79 | 3.000 G | 7.000 G | 1.00 M | 3.039000 G | -37.54 | -24.54 | 7.000 G | 13.600 G | 1.00 M | 10.230700 G | -34.58 | -21.58 | 13.600 G | 19.100 G | 1.00 M | 16.313583 G | -25.66 | -12.66 |
| Start [Hz]  | Stop [Hz]              | RBW [Hz]  | Freq [Hz]    | PwrAve [dBm] | ΔLimit [dB]  |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 30.000 M  | 1.000 G                | 1.00 M    | 141.792500 M | -29.57       | -16.57       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 1.000 G   | 1.845 G                | 1.00 M    | 1.078786 G   | -41.66       | -28.66       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 1.845 G   | 3.000 G                | 1.00 M    | 2.971519 G   | -39.75       | -26.75       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 3.000 G   | 7.000 G                | 1.00 M    | 3.008000 G   | -37.81       | -24.81       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 7.000 G   | 13.600 G               | 1.00 M    | 10.219225 G  | -34.54       | -21.54       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 13.600 G  | 19.100 G               | 1.00 M    | 15.311188 G  | -25.47       | -12.47       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| Start [Hz]  | Stop [Hz]              | RBW [Hz]  | Freq [Hz]    | PwrAve [dBm] | ΔLimit [dB]  |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 30.000 M  | 1.000 G                | 1.00 M    | 141.792500 M | -34.42       | -21.42       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 1.000 G   | 1.845 G                | 1.00 M    | 1.022640 G   | -43.36       | -30.36       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 1.845 G   | 3.000 G                | 1.00 M    | 2.981826 G   | -39.79       | -26.79       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 3.000 G   | 7.000 G                | 1.00 M    | 3.039000 G   | -37.54       | -24.54       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 7.000 G   | 13.600 G               | 1.00 M    | 10.230700 G  | -34.58       | -21.58       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 13.600 G  | 19.100 G               | 1.00 M    | 16.313583 G  | -25.66       | -12.66       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| Highest Channel   | Highest Channel        |           |              |              |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
|  <table border="1" data-bbox="239 1608 638 1697"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr><td>30.000 M</td><td>1.000 G</td><td>1.00 M</td><td>171.113000 M</td><td>-38.26</td><td>-25.26</td></tr> <tr><td>1.000 G</td><td>1.845 G</td><td>1.00 M</td><td>1.728179 G</td><td>-42.03</td><td>-29.03</td></tr> <tr><td>1.845 G</td><td>3.000 G</td><td>1.00 M</td><td>1.932071 G</td><td>-38.26</td><td>-25.26</td></tr> <tr><td>3.000 G</td><td>7.000 G</td><td>1.00 M</td><td>3.000000 G</td><td>-37.90</td><td>-24.90</td></tr> <tr><td>7.000 G</td><td>13.600 G</td><td>1.00 M</td><td>10.217500 G</td><td>-34.94</td><td>-21.94</td></tr> <tr><td>13.600 G</td><td>19.100 G</td><td>1.00 M</td><td>15.388875 G</td><td>-26.44</td><td>-13.44</td></tr> </tbody> </table> <p>Date: 15.SEP.2018 10:03:18</p> | Start [Hz]             | Stop [Hz] | RBW [Hz]     | Freq [Hz]    | PwrAve [dBm] | ΔLimit [dB] | 30.000 M | 1.000 G | 1.00 M | 171.113000 M | -38.26 | -25.26 | 1.000 G | 1.845 G | 1.00 M | 1.728179 G | -42.03 | -29.03 | 1.845 G | 3.000 G | 1.00 M | 1.932071 G | -38.26 | -25.26 | 3.000 G | 7.000 G | 1.00 M | 3.000000 G | -37.90 | -24.90 | 7.000 G | 13.600 G | 1.00 M | 10.217500 G | -34.94 | -21.94 | 13.600 G | 19.100 G | 1.00 M | 15.388875 G | -26.44 | -13.44 |  <table border="1" data-bbox="893 1608 1292 1697"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr><td>30.000 M</td><td>1.000 G</td><td>1.00 M</td><td>171.337500 M</td><td>+32.84</td><td>-19.84</td></tr> <tr><td>1.000 G</td><td>1.845 G</td><td>1.00 M</td><td>1.377239 G</td><td>-41.58</td><td>-28.58</td></tr> <tr><td>1.845 G</td><td>3.000 G</td><td>1.00 M</td><td>1.932071 G</td><td>-38.83</td><td>-25.83</td></tr> <tr><td>3.000 G</td><td>7.000 G</td><td>1.00 M</td><td>5.161000 G</td><td>-37.45</td><td>-24.45</td></tr> <tr><td>7.000 G</td><td>13.600 G</td><td>1.00 M</td><td>10.214200 G</td><td>-34.86</td><td>-21.86</td></tr> <tr><td>13.600 G</td><td>19.100 G</td><td>1.00 M</td><td>15.274750 G</td><td>-26.35</td><td>-13.35</td></tr> </tbody> </table> <p>Date: 15.SEP.2018 10:24:17</p> | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAve [dBm] | ΔLimit [dB] | 30.000 M | 1.000 G | 1.00 M | 171.337500 M | +32.84 | -19.84 | 1.000 G | 1.845 G | 1.00 M | 1.377239 G | -41.58 | -28.58 | 1.845 G | 3.000 G | 1.00 M | 1.932071 G | -38.83 | -25.83 | 3.000 G | 7.000 G | 1.00 M | 5.161000 G | -37.45 | -24.45 | 7.000 G | 13.600 G | 1.00 M | 10.214200 G | -34.86 | -21.86 | 13.600 G | 19.100 G | 1.00 M | 15.274750 G | -26.35 | -13.35 |
| Start [Hz]  | Stop [Hz]              | RBW [Hz]  | Freq [Hz]    | PwrAve [dBm] | ΔLimit [dB]  |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 30.000 M  | 1.000 G                | 1.00 M    | 171.113000 M | -38.26       | -25.26       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 1.000 G   | 1.845 G                | 1.00 M    | 1.728179 G   | -42.03       | -29.03       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 1.845 G   | 3.000 G                | 1.00 M    | 1.932071 G   | -38.26       | -25.26       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 3.000 G   | 7.000 G                | 1.00 M    | 3.000000 G   | -37.90       | -24.90       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 7.000 G   | 13.600 G               | 1.00 M    | 10.217500 G  | -34.94       | -21.94       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 13.600 G  | 19.100 G               | 1.00 M    | 15.388875 G  | -26.44       | -13.44       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| Start [Hz]  | Stop [Hz]              | RBW [Hz]  | Freq [Hz]    | PwrAve [dBm] | ΔLimit [dB]  |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 30.000 M  | 1.000 G                | 1.00 M    | 171.337500 M | +32.84       | -19.84       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 1.000 G   | 1.845 G                | 1.00 M    | 1.377239 G   | -41.58       | -28.58       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 1.845 G   | 3.000 G                | 1.00 M    | 1.932071 G   | -38.83       | -25.83       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 3.000 G   | 7.000 G                | 1.00 M    | 5.161000 G   | -37.45       | -24.45       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 7.000 G   | 13.600 G               | 1.00 M    | 10.214200 G  | -34.86       | -21.86       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |
| 13.600 G  | 19.100 G               | 1.00 M    | 15.274750 G  | -26.35       | -13.35       |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |   |            |           |          |           |              |             |          |         |        |              |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |         |        |            |        |        |         |          |        |             |        |        |          |          |        |             |        |        |



**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    | 0.0036                   | 0.0096                   | PASS            |
| 40               | Normal Voltage    | 0.0036                   | 0.0048                   |                 |
| 30               | Normal Voltage    | 0.0024                   | 0.0024                   |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000                   | 0.0000                   |                 |
| 10               | Normal Voltage    | 0.0036                   | 0.0000                   |                 |
| 0                | Normal Voltage    | 0.0024                   | 0.0036                   |                 |
| -10              | Normal Voltage    | 0.0060                   | 0.0072                   |                 |
| -20              | Normal Voltage    | 0.0096                   | 0.0072                   |                 |
| -30              | Normal Voltage    | 0.0120                   | 0.0084                   |                 |
| 20               | Maximum Voltage   | 0.0096                   | 0.0036                   |                 |
| 20               | Normal Voltage    | 0.0000                   | 0.0000                   |                 |
| 20               | Battery End Point | 0.0096                   | 0.0012                   |                 |



| Test Conditions  | Middle Channel    | GSM1900<br>(GPRS class 8) | GSM1900<br>(EDGE class 10) | Limit<br>Note 2. |
|------------------|-------------------|---------------------------|----------------------------|------------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)           |                            | Result           |
| 50               | Normal Voltage    | 0.0059                    | 0.0048                     | PASS             |
| 40               | Normal Voltage    | 0.0037                    | 0.0037                     |                  |
| 30               | Normal Voltage    | 0.0016                    | 0.0021                     |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                    | 0.0000                     |                  |
| 10               | Normal Voltage    | 0.0011                    | 0.0000                     |                  |
| 0                | Normal Voltage    | 0.0021                    | 0.0005                     |                  |
| -10              | Normal Voltage    | 0.0027                    | 0.0011                     |                  |
| -20              | Normal Voltage    | 0.0032                    | 0.0021                     |                  |
| -30              | Normal Voltage    | 0.0043                    | 0.0021                     |                  |
| 20               | Maximum Voltage   | 0.0027                    | 0.0053                     |                  |
| 20               | Normal Voltage    | 0.0000                    | 0.0000                     |                  |
| 20               | Battery End Point | 0.0005                    | 0.0080                     |                  |

**Note:**

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V
2. The frequency fundamental emissions stay within the authorized frequency block.

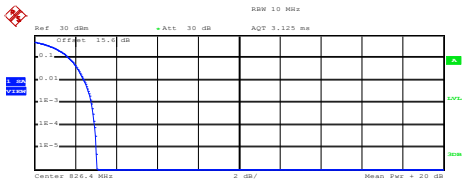
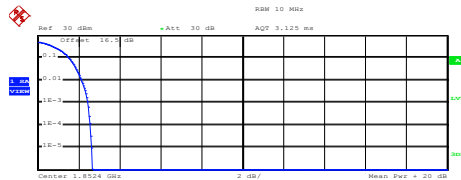
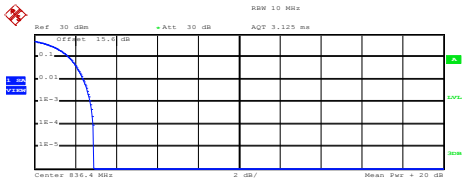
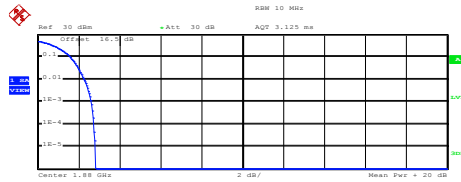
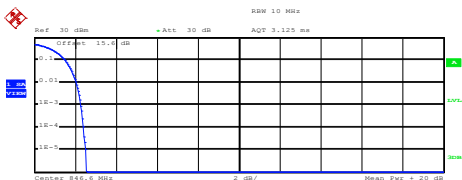
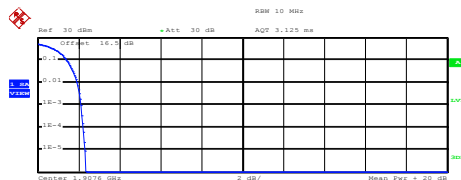


### A3. WCDMA

#### Peak-to-Average Ratio

| Mode       | WCDMA Band V | WCDMA Band II | Limit: 13dB |
|------------|--------------|---------------|-------------|
| Mod.       | RMC 12.2Kbps | RMC 12.2Kbps  | Result      |
| Lowest CH  | 2.80         | 2.44          | <b>PASS</b> |
| Middle CH  | 2.76         | 2.60          |             |
| Highest CH | 2.28         | 2.12          |             |



| WCDMA Band V (RMC 12.2Kbps)  | WCDMA Band II (RMC 12.2Kbps) |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
|--|------------------------------|-----------|------|-----------|-------|---------|------|---------|-----|---------|------|---------|-------|---------|--|------|-----------|------|-----------|-------|---------|------|---------|-----|---------|------|---------|-------|---------|
| <p style="text-align: center;"><b>Lowest Channel</b></p>  <p>Center: 826.4 MHz    2 dB/    Mean Pwr = 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/>Trace 1</p> <table border="1"> <tr><td>Mean</td><td>23.33 dBm</td></tr> <tr><td>Peak</td><td>26.37 dBm</td></tr> <tr><td>Crest</td><td>3.04 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>1.72 dB</td></tr> <tr><td>1 %</td><td>2.44 dB</td></tr> <tr><td>.1 %</td><td>2.80 dB</td></tr> <tr><td>.01 %</td><td>2.96 dB</td></tr> </table> <p>Date: 15.SEP.2018 08:35:11</p>    | Mean                         | 23.33 dBm | Peak | 26.37 dBm | Crest | 3.04 dB | 10 % | 1.72 dB | 1 % | 2.44 dB | .1 % | 2.80 dB | .01 % | 2.96 dB | <p style="text-align: center;"><b>Lowest Channel</b></p>  <p>Center: 1.8524 GHz    2 dB/    Mean Pwr = 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/>Trace 1</p> <table border="1"> <tr><td>Mean</td><td>23.30 dBm</td></tr> <tr><td>Peak</td><td>25.95 dBm</td></tr> <tr><td>Crest</td><td>2.65 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>1.52 dB</td></tr> <tr><td>1 %</td><td>2.16 dB</td></tr> <tr><td>.1 %</td><td>2.44 dB</td></tr> <tr><td>.01 %</td><td>2.56 dB</td></tr> </table> <p>Date: 15.SEP.2018 08:54:29</p>    | Mean | 23.30 dBm | Peak | 25.95 dBm | Crest | 2.65 dB | 10 % | 1.52 dB | 1 % | 2.16 dB | .1 % | 2.44 dB | .01 % | 2.56 dB |
| Mean   | 23.33 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Peak   | 26.37 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Crest  | 3.04 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 10 %   | 1.72 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 1 %  | 2.44 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .1 %   | 2.80 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .01 %  | 2.96 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Mean   | 23.30 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Peak   | 25.95 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Crest  | 2.65 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 10 %   | 1.52 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 1 %  | 2.16 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .1 %   | 2.44 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .01 %  | 2.56 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| <p style="text-align: center;"><b>Middle Channel</b></p>  <p>Center: 836.4 MHz    2 dB/    Mean Pwr = 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/>Trace 1</p> <table border="1"> <tr><td>Mean</td><td>23.32 dBm</td></tr> <tr><td>Peak</td><td>26.23 dBm</td></tr> <tr><td>Crest</td><td>2.91 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>1.68 dB</td></tr> <tr><td>1 %</td><td>2.40 dB</td></tr> <tr><td>.1 %</td><td>2.76 dB</td></tr> <tr><td>.01 %</td><td>2.88 dB</td></tr> </table> <p>Date: 15.SEP.2018 08:35:27</p>   | Mean                         | 23.32 dBm | Peak | 26.23 dBm | Crest | 2.91 dB | 10 % | 1.68 dB | 1 % | 2.40 dB | .1 % | 2.76 dB | .01 % | 2.88 dB | <p style="text-align: center;"><b>Middle Channel</b></p>  <p>Center: 1.88 GHz    2 dB/    Mean Pwr = 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/>Trace 1</p> <table border="1"> <tr><td>Mean</td><td>23.41 dBm</td></tr> <tr><td>Peak</td><td>26.23 dBm</td></tr> <tr><td>Crest</td><td>2.82 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>1.60 dB</td></tr> <tr><td>1 %</td><td>2.28 dB</td></tr> <tr><td>.1 %</td><td>2.60 dB</td></tr> <tr><td>.01 %</td><td>2.76 dB</td></tr> </table> <p>Date: 15.SEP.2018 08:54:44</p>     | Mean | 23.41 dBm | Peak | 26.23 dBm | Crest | 2.82 dB | 10 % | 1.60 dB | 1 % | 2.28 dB | .1 % | 2.60 dB | .01 % | 2.76 dB |
| Mean   | 23.32 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Peak   | 26.23 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Crest  | 2.91 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 10 %   | 1.68 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 1 %  | 2.40 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .1 %   | 2.76 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .01 %  | 2.88 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Mean   | 23.41 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Peak   | 26.23 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Crest  | 2.82 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 10 %   | 1.60 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 1 %  | 2.28 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .1 %   | 2.60 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .01 %  | 2.76 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| <p style="text-align: center;"><b>Highest Channel</b></p>  <p>Center: 846.6 MHz    2 dB/    Mean Pwr = 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/>Trace 1</p> <table border="1"> <tr><td>Mean</td><td>23.26 dBm</td></tr> <tr><td>Peak</td><td>25.81 dBm</td></tr> <tr><td>Crest</td><td>2.55 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>1.52 dB</td></tr> <tr><td>1 %</td><td>2.04 dB</td></tr> <tr><td>.1 %</td><td>2.28 dB</td></tr> <tr><td>.01 %</td><td>2.40 dB</td></tr> </table> <p>Date: 15.SEP.2018 08:35:41</p> | Mean                         | 23.26 dBm | Peak | 25.81 dBm | Crest | 2.55 dB | 10 % | 1.52 dB | 1 % | 2.04 dB | .1 % | 2.28 dB | .01 % | 2.40 dB | <p style="text-align: center;"><b>Highest Channel</b></p>  <p>Center: 1.9076 GHz    2 dB/    Mean Pwr = 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)<br/>Trace 1</p> <table border="1"> <tr><td>Mean</td><td>23.60 dBm</td></tr> <tr><td>Peak</td><td>25.95 dBm</td></tr> <tr><td>Crest</td><td>2.35 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>1.40 dB</td></tr> <tr><td>1 %</td><td>1.92 dB</td></tr> <tr><td>.1 %</td><td>2.12 dB</td></tr> <tr><td>.01 %</td><td>2.24 dB</td></tr> </table> <p>Date: 15.SEP.2018 08:55:05</p> | Mean | 23.60 dBm | Peak | 25.95 dBm | Crest | 2.35 dB | 10 % | 1.40 dB | 1 % | 1.92 dB | .1 % | 2.12 dB | .01 % | 2.24 dB |
| Mean   | 23.26 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Peak   | 25.81 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Crest  | 2.55 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 10 %   | 1.52 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 1 %  | 2.04 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .1 %   | 2.28 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .01 %  | 2.40 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Mean   | 23.60 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Peak   | 25.95 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Crest  | 2.35 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 10 %   | 1.40 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 1 %  | 1.92 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .1 %   | 2.12 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .01 %  | 2.24 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |  |      |           |      |           |       |         |      |         |     |         |      |         |       |         |





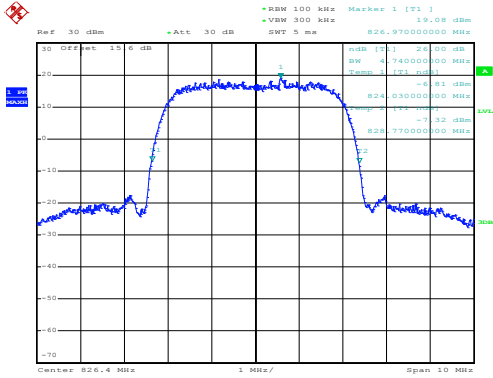
**26dB Bandwidth**

| Mode       | WCDMA Band V<br>26dB BW(MHz) | WCDMA Band II<br>26dB BW(MHz) |
|------------|------------------------------|-------------------------------|
| Mod.       | RMC 12.2Kbps                 | RMC 12.2Kbps                  |
| Lowest CH  | 4.74                         | 4.72                          |
| Middle CH  | 4.74                         | 4.74                          |
| Highest CH | 4.76                         | 4.76                          |



WCDMA Band V (RMC 12.2Kbps)

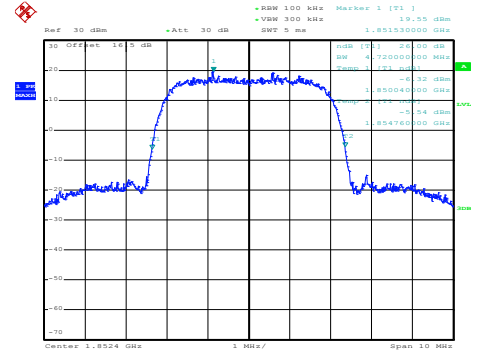
Lowest Channel



Date: 15.SEP.2018 08:23:10

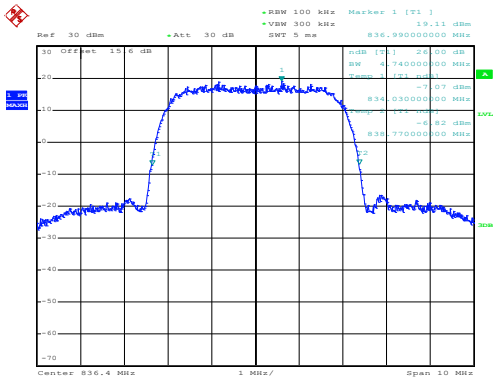
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



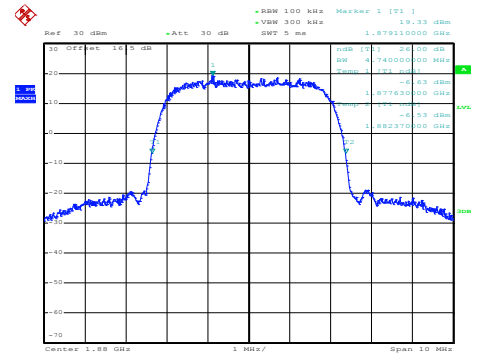
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Middle Channel



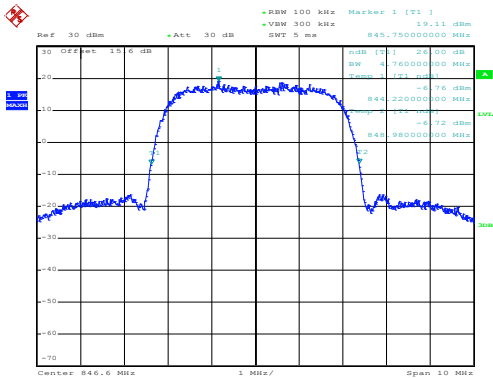
Date: 15.SEP.2018 08:23:46

Middle Channel



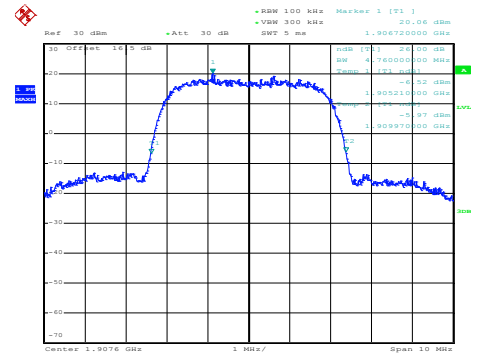
Date: 15.SEP.2018 08:40:07

Highest Channel



Date: 15.SEP.2018 08:24:21

Highest Channel



Date: 15.SEP.2018 08:40:46



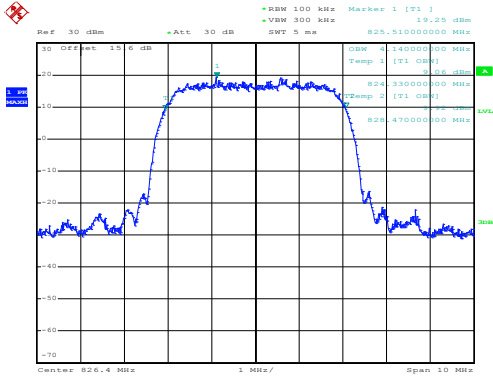
**Occupied Bandwidth**

| Mode       | WCDMA Band V<br>99% OBW(MHz) | WCDMA Band II<br>99% OBW(MHz) |
|------------|------------------------------|-------------------------------|
| Mod.       | RMC 12.2Kbps                 | RMC 12.2Kbps                  |
| Lowest CH  | 4.14                         | 4.15                          |
| Middle CH  | 4.15                         | 4.16                          |
| Highest CH | 4.17                         | 4.17                          |



WCDMA Band V (RMC 12.2Kbps)

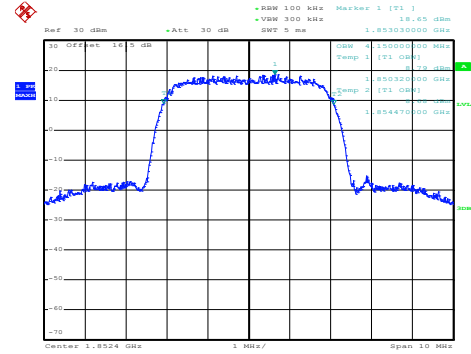
Lowest Channel



Date: 15.SEP.2018 08:25:00

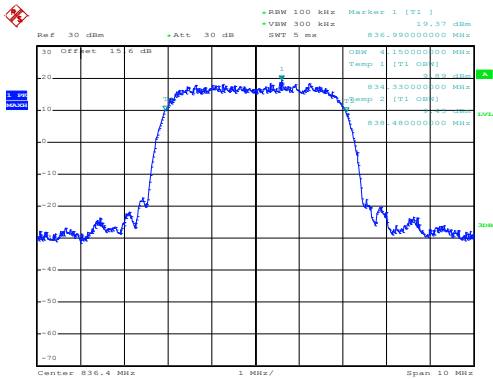
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



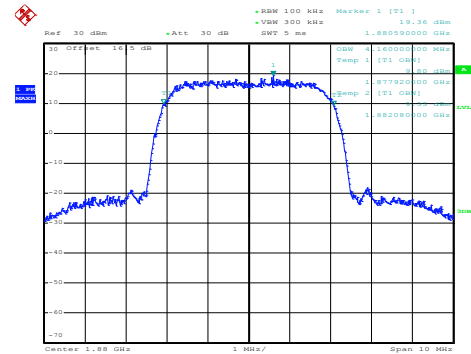
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Middle Channel



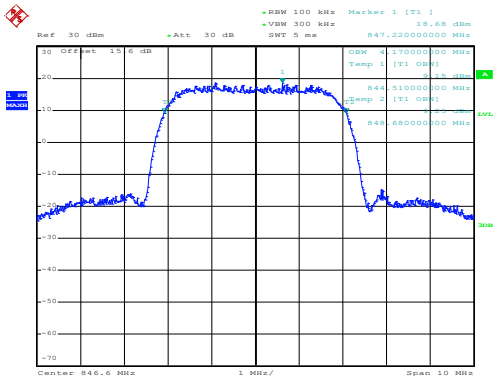
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Middle Channel



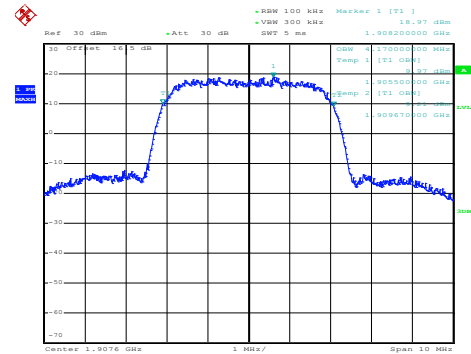
Date: 15.SEP.2018 08:42:00

Highest Channel



Date: 15.SEP.2018 08:26:15

Highest Channel



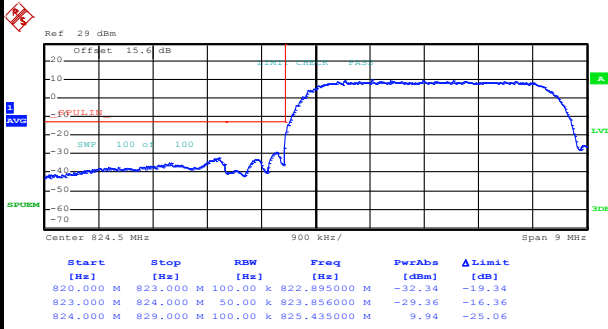
Date: 15.SEP.2018 08:42:35



**Conducted Band Edge**

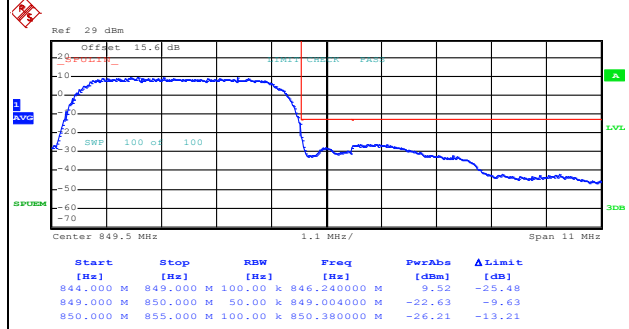
**WCDMA Band V (RMC 12.2Kbps)**

**Lowest Band Edge**



Date: 15.SEP.2018 08:29:09

**Highest Band Edge**



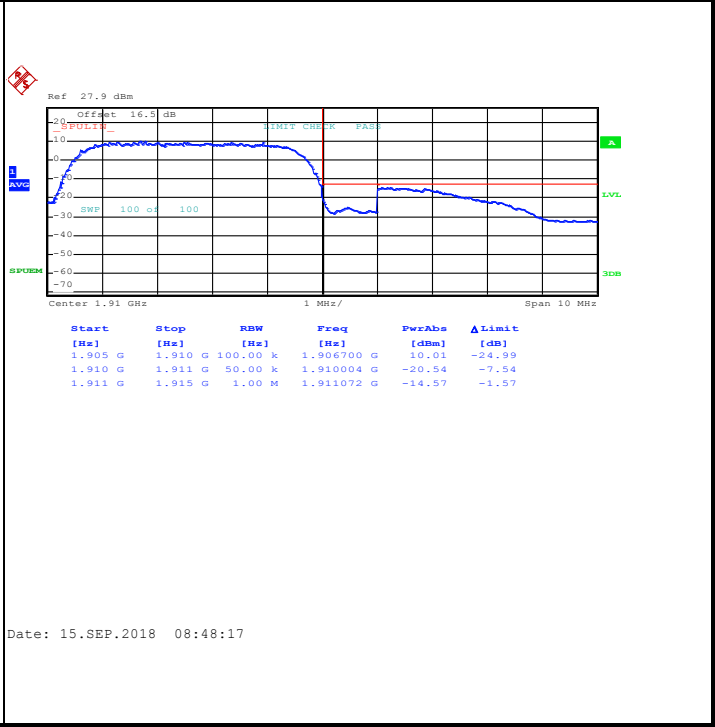
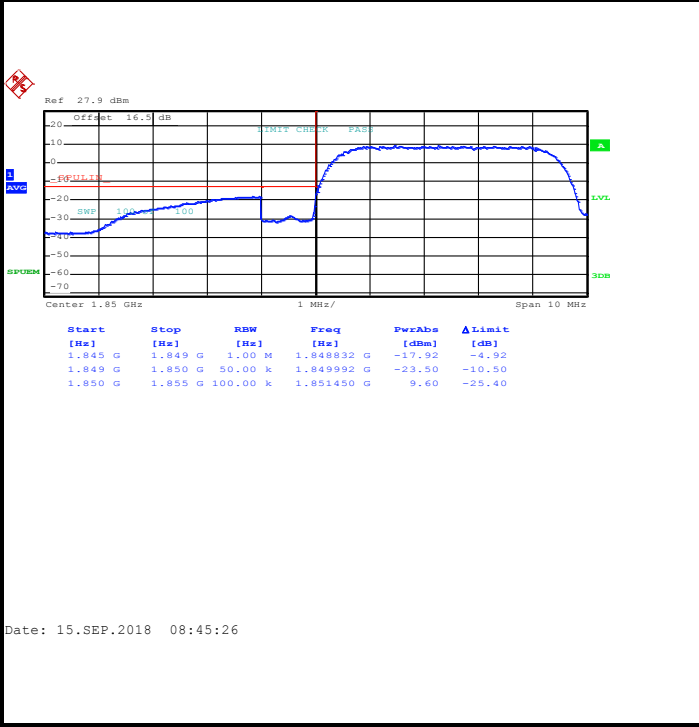
Date: 15.SEP.2018 08:31:59



WCDMA Band II (RMC 12.2Kbps)

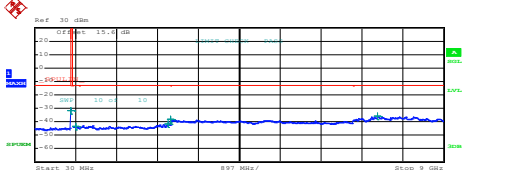
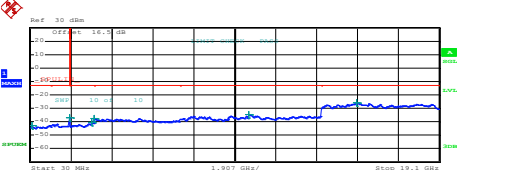
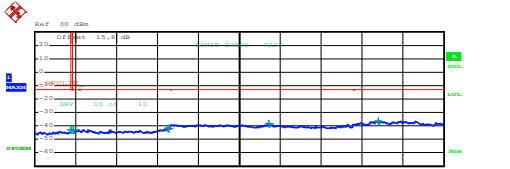
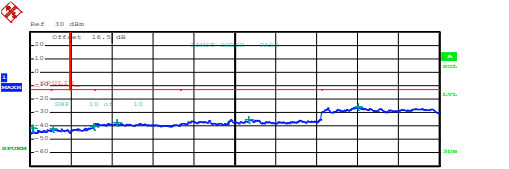
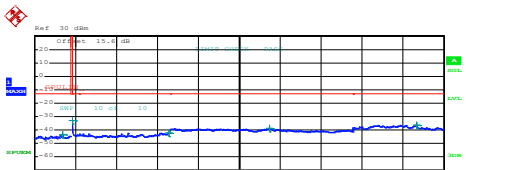
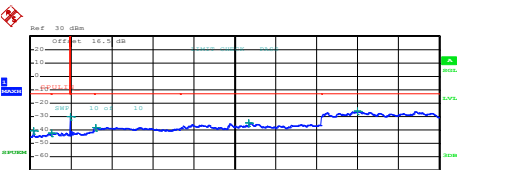
Lowest Band Edge

Highest Band Edge





# Conducted Spurious Emission

| WCDMA Band V (RMC 12.2Kbps)   | WCDMA Band II (RMC 12.2Kbps) |           |              |              |              |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
|---|------------------------------|-----------|--------------|--------------|--------------|-------------|----------|-----------|---------|--------------|--------|--------|-----------|---------|---------|--------------|--------|--------|---------|---------|---------|-------------|--------|--------|---------|---------|---------|-------------|--------|--------|---------|---------|---------|-------------|--------|--------|---|------------|-----------|----------|-----------|--------------|-------------|----------|---------|---------|--------------|--------|--------|---------|---------|---------|------------|--------|--------|---------|---------|---------|------------|--------|--------|---------|---------|---------|------------|--------|--------|---------|----------|---------|-------------|--------|--------|----------|----------|---------|-------------|--------|--------|
| Lowest Channel  | Lowest Channel               |           |              |              |              |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
|  <table border="1" data-bbox="239 660 766 739"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30,000 M</td> <td>820,000 M</td> <td>1,000 M</td> <td>818,210000 M</td> <td>-33.50</td> <td>-30.30</td> </tr> <tr> <td>855,000 M</td> <td>1,000 G</td> <td>1,000 M</td> <td>922,280000 G</td> <td>-42.69</td> <td>-28.69</td> </tr> <tr> <td>1,000 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>2,9265000 G</td> <td>-42.69</td> <td>-28.69</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>3,0040000 G</td> <td>-38.34</td> <td>-25.34</td> </tr> <tr> <td>7,000 G</td> <td>9,000 G</td> <td>1,000 M</td> <td>7,5485000 G</td> <td>-35.80</td> <td>-22.80</td> </tr> </tbody> </table> <p>Date: 15.SEP.2018 08:32:55</p>     | Start [Hz]                   | Stop [Hz] | RBW [Hz]     | Freq [Hz]    | PerAbs [dBm] | ΔLimit [dB] | 30,000 M | 820,000 M | 1,000 M | 818,210000 M | -33.50 | -30.30 | 855,000 M | 1,000 G | 1,000 M | 922,280000 G | -42.69 | -28.69 | 1,000 G | 3,000 G | 1,000 M | 2,9265000 G | -42.69 | -28.69 | 3,000 G | 7,000 G | 1,000 M | 3,0040000 G | -38.34 | -25.34 | 7,000 G | 9,000 G | 1,000 M | 7,5485000 G | -35.80 | -22.80 |  <table border="1" data-bbox="893 660 1420 739"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30,000 M</td> <td>3,000 G</td> <td>1,000 M</td> <td>115,117500 M</td> <td>-42.76</td> <td>-29.76</td> </tr> <tr> <td>1,000 G</td> <td>1,845 G</td> <td>1,000 M</td> <td>1,844355 G</td> <td>-37.06</td> <td>-24.06</td> </tr> <tr> <td>1,915 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>2,899366 G</td> <td>-40.56</td> <td>-27.56</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>3,006000 G</td> <td>-37.59</td> <td>-24.59</td> </tr> <tr> <td>7,000 G</td> <td>13,600 G</td> <td>1,000 M</td> <td>10,230700 G</td> <td>-34.84</td> <td>-21.84</td> </tr> <tr> <td>13,600 G</td> <td>19,100 G</td> <td>1,000 M</td> <td>15,261000 G</td> <td>-25.94</td> <td>-12.94</td> </tr> </tbody> </table> <p>Date: 15.SEP.2018 08:51:42</p>     | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | 30,000 M | 3,000 G | 1,000 M | 115,117500 M | -42.76 | -29.76 | 1,000 G | 1,845 G | 1,000 M | 1,844355 G | -37.06 | -24.06 | 1,915 G | 3,000 G | 1,000 M | 2,899366 G | -40.56 | -27.56 | 3,000 G | 7,000 G | 1,000 M | 3,006000 G | -37.59 | -24.59 | 7,000 G | 13,600 G | 1,000 M | 10,230700 G | -34.84 | -21.84 | 13,600 G | 19,100 G | 1,000 M | 15,261000 G | -25.94 | -12.94 |
| Start [Hz]  | Stop [Hz]                    | RBW [Hz]  | Freq [Hz]    | PerAbs [dBm] | ΔLimit [dB]  |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 30,000 M  | 820,000 M                    | 1,000 M   | 818,210000 M | -33.50       | -30.30       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 855,000 M   | 1,000 G                      | 1,000 M   | 922,280000 G | -42.69       | -28.69       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 1,000 G   | 3,000 G                      | 1,000 M   | 2,9265000 G  | -42.69       | -28.69       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 3,000 G   | 7,000 G                      | 1,000 M   | 3,0040000 G  | -38.34       | -25.34       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 7,000 G   | 9,000 G                      | 1,000 M   | 7,5485000 G  | -35.80       | -22.80       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| Start [Hz]  | Stop [Hz]                    | RBW [Hz]  | Freq [Hz]    | PerAbs [dBm] | ΔLimit [dB]  |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 30,000 M  | 3,000 G                      | 1,000 M   | 115,117500 M | -42.76       | -29.76       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 1,000 G   | 1,845 G                      | 1,000 M   | 1,844355 G   | -37.06       | -24.06       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 1,915 G   | 3,000 G                      | 1,000 M   | 2,899366 G   | -40.56       | -27.56       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 3,000 G   | 7,000 G                      | 1,000 M   | 3,006000 G   | -37.59       | -24.59       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 7,000 G   | 13,600 G                     | 1,000 M   | 10,230700 G  | -34.84       | -21.84       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 13,600 G  | 19,100 G                     | 1,000 M   | 15,261000 G  | -25.94       | -12.94       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| Middle Channel  | Middle Channel               |           |              |              |              |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
|  <table border="1" data-bbox="239 1176 766 1254"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30,000 M</td> <td>820,000 M</td> <td>1,000 M</td> <td>818,617500 M</td> <td>-42.95</td> <td>-29.95</td> </tr> <tr> <td>855,000 M</td> <td>1,000 G</td> <td>1,000 M</td> <td>873,088751 M</td> <td>-42.89</td> <td>-29.89</td> </tr> <tr> <td>1,000 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>2,9613000 G</td> <td>-41.61</td> <td>-28.61</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>5,1630000 G</td> <td>-38.31</td> <td>-25.31</td> </tr> <tr> <td>7,000 G</td> <td>9,000 G</td> <td>1,000 M</td> <td>7,5655000 G</td> <td>-36.40</td> <td>-23.40</td> </tr> </tbody> </table> <p>Date: 15.SEP.2018 08:33:49</p>  | Start [Hz]                   | Stop [Hz] | RBW [Hz]     | Freq [Hz]    | PerAbs [dBm] | ΔLimit [dB] | 30,000 M | 820,000 M | 1,000 M | 818,617500 M | -42.95 | -29.95 | 855,000 M | 1,000 G | 1,000 M | 873,088751 M | -42.89 | -29.89 | 1,000 G | 3,000 G | 1,000 M | 2,9613000 G | -41.61 | -28.61 | 3,000 G | 7,000 G | 1,000 M | 5,1630000 G | -38.31 | -25.31 | 7,000 G | 9,000 G | 1,000 M | 7,5655000 G | -36.40 | -23.40 |  <table border="1" data-bbox="893 1176 1420 1254"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30,000 M</td> <td>3,000 G</td> <td>1,000 M</td> <td>140,822500 M</td> <td>-41.87</td> <td>-28.87</td> </tr> <tr> <td>1,000 G</td> <td>3,845 G</td> <td>1,000 M</td> <td>3,150084 G</td> <td>-42.34</td> <td>-29.34</td> </tr> <tr> <td>1,915 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>2,996745 G</td> <td>-40.47</td> <td>-27.47</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>4,090000 G</td> <td>-37.71</td> <td>-24.71</td> </tr> <tr> <td>7,000 G</td> <td>13,600 G</td> <td>1,000 M</td> <td>10,233500 G</td> <td>-35.08</td> <td>-22.08</td> </tr> <tr> <td>13,600 G</td> <td>19,100 G</td> <td>1,000 M</td> <td>15,305687 G</td> <td>-25.79</td> <td>-12.79</td> </tr> </tbody> </table> <p>Date: 15.SEP.2018 08:52:36</p>  | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | 30,000 M | 3,000 G | 1,000 M | 140,822500 M | -41.87 | -28.87 | 1,000 G | 3,845 G | 1,000 M | 3,150084 G | -42.34 | -29.34 | 1,915 G | 3,000 G | 1,000 M | 2,996745 G | -40.47 | -27.47 | 3,000 G | 7,000 G | 1,000 M | 4,090000 G | -37.71 | -24.71 | 7,000 G | 13,600 G | 1,000 M | 10,233500 G | -35.08 | -22.08 | 13,600 G | 19,100 G | 1,000 M | 15,305687 G | -25.79 | -12.79 |
| Start [Hz]  | Stop [Hz]                    | RBW [Hz]  | Freq [Hz]    | PerAbs [dBm] | ΔLimit [dB]  |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 30,000 M  | 820,000 M                    | 1,000 M   | 818,617500 M | -42.95       | -29.95       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 855,000 M   | 1,000 G                      | 1,000 M   | 873,088751 M | -42.89       | -29.89       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 1,000 G   | 3,000 G                      | 1,000 M   | 2,9613000 G  | -41.61       | -28.61       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 3,000 G   | 7,000 G                      | 1,000 M   | 5,1630000 G  | -38.31       | -25.31       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 7,000 G   | 9,000 G                      | 1,000 M   | 7,5655000 G  | -36.40       | -23.40       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| Start [Hz]  | Stop [Hz]                    | RBW [Hz]  | Freq [Hz]    | PerAbs [dBm] | ΔLimit [dB]  |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 30,000 M  | 3,000 G                      | 1,000 M   | 140,822500 M | -41.87       | -28.87       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 1,000 G   | 3,845 G                      | 1,000 M   | 3,150084 G   | -42.34       | -29.34       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 1,915 G   | 3,000 G                      | 1,000 M   | 2,996745 G   | -40.47       | -27.47       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 3,000 G   | 7,000 G                      | 1,000 M   | 4,090000 G   | -37.71       | -24.71       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 7,000 G   | 13,600 G                     | 1,000 M   | 10,233500 G  | -35.08       | -22.08       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 13,600 G  | 19,100 G                     | 1,000 M   | 15,305687 G  | -25.79       | -12.79       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| Highest Channel   | Highest Channel              |           |              |              |              |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
|  <table border="1" data-bbox="239 1691 766 1769"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30,000 M</td> <td>820,000 M</td> <td>1,000 M</td> <td>643,435000 M</td> <td>-43.05</td> <td>-30.05</td> </tr> <tr> <td>855,000 M</td> <td>1,000 G</td> <td>1,000 M</td> <td>855,108750 M</td> <td>-33.03</td> <td>-20.03</td> </tr> <tr> <td>1,000 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>2,9730000 G</td> <td>-42.00</td> <td>-28.00</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>5,1700000 G</td> <td>-38.71</td> <td>-25.71</td> </tr> <tr> <td>7,000 G</td> <td>9,000 G</td> <td>1,000 M</td> <td>8,4050000 G</td> <td>-36.29</td> <td>-23.29</td> </tr> </tbody> </table> <p>Date: 15.SEP.2018 08:34:41</p> | Start [Hz]                   | Stop [Hz] | RBW [Hz]     | Freq [Hz]    | PerAbs [dBm] | ΔLimit [dB] | 30,000 M | 820,000 M | 1,000 M | 643,435000 M | -43.05 | -30.05 | 855,000 M | 1,000 G | 1,000 M | 855,108750 M | -33.03 | -20.03 | 1,000 G | 3,000 G | 1,000 M | 2,9730000 G | -42.00 | -28.00 | 3,000 G | 7,000 G | 1,000 M | 5,1700000 G | -38.71 | -25.71 | 7,000 G | 9,000 G | 1,000 M | 8,4050000 G | -36.29 | -23.29 |  <table border="1" data-bbox="893 1691 1420 1769"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30,000 M</td> <td>3,000 G</td> <td>1,000 M</td> <td>168,710000 M</td> <td>-40.40</td> <td>-27.40</td> </tr> <tr> <td>1,000 G</td> <td>1,845 G</td> <td>1,000 M</td> <td>1,031476 G</td> <td>-42.08</td> <td>-29.08</td> </tr> <tr> <td>1,915 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>1,933562 G</td> <td>-39.03</td> <td>-26.03</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>3,075000 G</td> <td>-37.93</td> <td>-24.93</td> </tr> <tr> <td>7,000 G</td> <td>13,600 G</td> <td>1,000 M</td> <td>10,214200 G</td> <td>-34.55</td> <td>-21.55</td> </tr> <tr> <td>13,600 G</td> <td>19,100 G</td> <td>1,000 M</td> <td>15,281625 G</td> <td>-26.08</td> <td>-13.08</td> </tr> </tbody> </table> <p>Date: 15.SEP.2018 08:53:28</p> | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | 30,000 M | 3,000 G | 1,000 M | 168,710000 M | -40.40 | -27.40 | 1,000 G | 1,845 G | 1,000 M | 1,031476 G | -42.08 | -29.08 | 1,915 G | 3,000 G | 1,000 M | 1,933562 G | -39.03 | -26.03 | 3,000 G | 7,000 G | 1,000 M | 3,075000 G | -37.93 | -24.93 | 7,000 G | 13,600 G | 1,000 M | 10,214200 G | -34.55 | -21.55 | 13,600 G | 19,100 G | 1,000 M | 15,281625 G | -26.08 | -13.08 |
| Start [Hz]  | Stop [Hz]                    | RBW [Hz]  | Freq [Hz]    | PerAbs [dBm] | ΔLimit [dB]  |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 30,000 M  | 820,000 M                    | 1,000 M   | 643,435000 M | -43.05       | -30.05       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 855,000 M   | 1,000 G                      | 1,000 M   | 855,108750 M | -33.03       | -20.03       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 1,000 G   | 3,000 G                      | 1,000 M   | 2,9730000 G  | -42.00       | -28.00       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 3,000 G   | 7,000 G                      | 1,000 M   | 5,1700000 G  | -38.71       | -25.71       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 7,000 G   | 9,000 G                      | 1,000 M   | 8,4050000 G  | -36.29       | -23.29       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| Start [Hz]  | Stop [Hz]                    | RBW [Hz]  | Freq [Hz]    | PerAbs [dBm] | ΔLimit [dB]  |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 30,000 M  | 3,000 G                      | 1,000 M   | 168,710000 M | -40.40       | -27.40       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 1,000 G   | 1,845 G                      | 1,000 M   | 1,031476 G   | -42.08       | -29.08       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 1,915 G   | 3,000 G                      | 1,000 M   | 1,933562 G   | -39.03       | -26.03       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 3,000 G   | 7,000 G                      | 1,000 M   | 3,075000 G   | -37.93       | -24.93       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 7,000 G   | 13,600 G                     | 1,000 M   | 10,214200 G  | -34.55       | -21.55       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |
| 13,600 G  | 19,100 G                     | 1,000 M   | 15,281625 G  | -26.08       | -13.08       |             |          |           |         |              |        |        |           |         |         |              |        |        |         |         |         |             |        |        |         |         |         |             |        |        |         |         |         |             |        |        |   |            |           |          |           |              |             |          |         |         |              |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |         |         |            |        |        |         |          |         |             |        |        |          |          |         |             |        |        |



**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    | 0.0167                         | PASS            |
| 40               | Normal Voltage    | 0.0096                         |                 |
| 30               | Normal Voltage    | 0.0024                         |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000                         |                 |
| 10               | Normal Voltage    | 0.0000                         |                 |
| 0                | Normal Voltage    | 0.0012                         |                 |
| -10              | Normal Voltage    | 0.0012                         |                 |
| -20              | Normal Voltage    | 0.0024                         |                 |
| -30              | Normal Voltage    | 0.0036                         |                 |
| 20               | Maximum Voltage   | 0.0132                         |                 |
| 20               | Normal Voltage    | 0.0000                         |                 |
| 20               | Battery End Point | 0.0143                         |                 |





| Test Conditions  | Middle Channel    | WCDMA Band II (RMC 12.2Kbps) | Limit Note 2. |
|------------------|-------------------|------------------------------|---------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)              | Result        |
| 50               | Normal Voltage    | 0.0011                       | PASS          |
| 40               | Normal Voltage    | 0.0011                       |               |
| 30               | Normal Voltage    | 0.0005                       |               |
| 20(Ref.)         | Normal Voltage    | 0.0000                       |               |
| 10               | Normal Voltage    | 0.0011                       |               |
| 0                | Normal Voltage    | 0.0027                       |               |
| -10              | Normal Voltage    | 0.0027                       |               |
| -20              | Normal Voltage    | 0.0032                       |               |
| -30              | Normal Voltage    | 0.0037                       |               |
| 20               | Maximum Voltage   | 0.0021                       |               |
| 20               | Normal Voltage    | 0.0000                       |               |
| 20               | Battery End Point | 0.0011                       |               |

**Note:**

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V
2. The frequency fundamental emissions stay within the authorized frequency block.



## 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              | 32.01       | 1.5885        | 26.26    | 0.4227 |
| Middle  | GPRS class 8        | 32.26       | 1.6827        | 26.51    | 0.4477 |
| Highest | (GT - LC = -3.6 dB) | 32.46       | 1.7620        | 26.71    | 0.4688 |
| Lowest  | GSM850              | 27.02       | 0.5035        | 21.27    | 0.1340 |
| Middle  | EDGE class 8        | 26.56       | 0.4529        | 20.81    | 0.1205 |
| Highest | (GT - LC = -3.6 dB) | 26.91       | 0.4909        | 21.16    | 0.1306 |
| Lowest  | WCDMA Band V        | 23.66       | 0.2323        | 17.91    | 0.0618 |
| Middle  | RMC 12.2Kbps        | 23.63       | 0.2307        | 17.88    | 0.0614 |
| Highest | (GT - LC = -3.6 dB) | 23.60       | 0.2291        | 17.85    | 0.0610 |
| Limit   | ERP < 7W            | Result      |               | PASS     |        |

| Channel | Mode                | Conducted   |               | EIRP      |         |
|---------|---------------------|-------------|---------------|-----------|---------|
|         |                     | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest  | GSM1900             | 29.25       | 0.8414        | 27.75     | 0.5957  |
| Middle  | GPRS class 8        | 30.00       | 1.0000        | 28.50     | 0.7079  |
| Highest | (GT - LC = -1.5 dB) | 30.18       | 1.0423        | 28.68     | 0.7379  |
| Lowest  | GSM1900             | 24.75       | 0.2985        | 23.25     | 0.2113  |
| Middle  | EDGE class 10       | 25.20       | 0.3311        | 23.70     | 0.2344  |
| Highest | (GT - LC = -1.5 dB) | 25.70       | 0.3715        | 24.20     | 0.2630  |
| Lowest  | WCDMA Band II       | 21.46       | 0.1400        | 19.96     | 0.0991  |
| Middle  | RMC 12.2Kbps        | 21.45       | 0.1396        | 19.95     | 0.0989  |
| Highest | (GT - LC = -1.5 dB) | 22.02       | 0.1592        | 20.52     | 0.1127  |
| Limit   | EIRP < 2W           | Result      |               | PASS      |         |



**Radiated Spurious Emission**

**GPRS850**

| GPRS 850 |                   |             |               |                   |                   |                    |                      |                       |                    |
|----------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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            | -69.07            | -58.5              | 0.98                 | 4.89                  | H                  |
|          | 2472              | -46.34      | -13           | -33.34            | -63.87            | -48.22             | 1.28                 | 5.32                  | H                  |
|          | 3296              | -58.63      | -13           | -45.63            | -78.23            | -62.042            | 1.54                 | 7.10                  | H                  |
|          |                   |             |               |                   |                   |                    |                      |                       | H                  |
|          |                   |             |               |                   |                   |                    |                      |                       | H                  |
|          |                   |             |               |                   |                   |                    |                      |                       | H                  |
|          | 1648              | -56.85      | -13           | -43.85            | -69.65            | -58.61             | 0.98                 | 4.89                  | V                  |
|          | 2472              | -56.38      | -13           | -43.38            | -74.35            | -58.26             | 1.28                 | 5.32                  | V                  |
|          | 3296              | -58.07      | -13           | -45.07            | -78               | -61.48             | 1.54                 | 7.10                  | V                  |
|          |                   |             |               |                   |                   |                    |                      |                       | V                  |
|          |                   |             |               |                   |                   |                    |                      |                       | V                  |
|          |                   |             |               |                   |                   |                    |                      |                       | V                  |
| Middle   | 1672              | -63.16      | -13           | -50.16            | -75.52            | -64.84             | 0.99                 | 4.82                  | H                  |
|          | 2509              | -59.33      | -13           | -46.33            | -76.71            | -61.29             | 1.29                 | 5.41                  | H                  |
|          | 3345              | -58.17      | -13           | -45.17            | -77.73            | -61.78             | 1.56                 | 7.32                  | H                  |
|          |                   |             |               |                   |                   |                    |                      |                       | H                  |
|          |                   |             |               |                   |                   |                    |                      |                       | H                  |
|          |                   |             |               |                   |                   |                    |                      |                       | H                  |
|          | 1672              | -62.39      | -13           | -49.39            | -75.2             | -64.07             | 0.99                 | 4.82                  | V                  |
|          | 2509              | -58.86      | -13           | -45.86            | -76.64            | -60.82             | 1.29                 | 5.41                  | V                  |
|          | 3345              | -57.98      | -13           | -44.98            | -77.79            | -61.59             | 1.56                 | 7.32                  | V                  |
|          |                   |             |               |                   |                   |                    |                      |                       | V                  |
|          |                   |             |               |                   |                   |                    |                      |                       | V                  |
|          |                   |             |               |                   |                   |                    |                      |                       | V                  |



|         |      |        |     |        |        |        |      |      |   |
|---------|------|--------|-----|--------|--------|--------|------|------|---|
| Highest | 1696 | -63.43 | -13 | -50.43 | -75.98 | -65.03 | 1.00 | 4.75 | H |
|         | 2546 | -59.14 | -13 | -46.14 | -76.49 | -61.12 | 1.31 | 5.44 | H |
|         | 3395 | -57.71 | -13 | -44.71 | -77.56 | -61.53 | 1.57 | 7.54 | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         | 1696 | -62.97 | -13 | -49.97 | -75.93 | -64.57 | 1.00 | 4.75 | V |
|         | 2546 | -58.66 | -13 | -45.66 | -76.57 | -60.64 | 1.31 | 5.44 | V |
|         | 3395 | -57.67 | -13 | -44.67 | -77.63 | -61.49 | 1.57 | 7.54 | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |

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



**EDGE 850**

| EDGE 850 |                   |             |               |                   |                   |                    |                      |                       |                    |
|----------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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              | -62.86      | -13           | -49.86            | -74.95            | -64.62             | 0.98                 | 4.89                  | H                  |
|          | 2472              | -59.21      | -13           | -46.21            | -76.41            | -61.09             | 1.28                 | 5.32                  | H                  |
|          | 3296              | -58.14      | -13           | -45.14            | -77.46            | -61.55             | 1.54                 | 7.10                  | H                  |
|          |                   |             |               |                   |                   |                    |                      |                       | H                  |
|          |                   |             |               |                   |                   |                    |                      |                       | H                  |
|          |                   |             |               |                   |                   |                    |                      |                       | H                  |
|          |                   |             |               |                   |                   |                    |                      |                       | H                  |
|          | 1648              | -61.52      | -13           | -48.52            | -74.05            | -63.28             | 0.98                 | 4.89                  | V                  |
|          | 2472              | -58.55      | -13           | -45.55            | -76.26            | -60.43             | 1.28                 | 5.32                  | V                  |
|          | 3296              | -57.72      | -13           | -44.72            | -77.39            | -61.13             | 1.54                 | 7.10                  | V                  |
|          |                   |             |               |                   |                   |                    |                      |                       | V                  |
|          |                   |             |               |                   |                   |                    |                      |                       | V                  |
|          |                   |             |               |                   |                   |                    |                      |                       | V                  |
|          |                   |             |               |                   |                   |                    |                      |                       | V                  |
| Middle   | 1672              | -62.98      | -13           | -49.98            | -75.4             | -64.66             | 0.99                 | 4.82                  | H                  |
|          | 2509              | -59.27      | -13           | -46.27            | -76.59            | -61.23             | 1.29                 | 5.41                  | H                  |
|          | 3345              | -57.74      | -13           | -44.74            | -77.33            | -61.35             | 1.56                 | 7.32                  | H                  |
|          |                   |             |               |                   |                   |                    |                      |                       | H                  |
|          |                   |             |               |                   |                   |                    |                      |                       | H                  |
|          |                   |             |               |                   |                   |                    |                      |                       | H                  |
|          |                   |             |               |                   |                   |                    |                      |                       | H                  |
|          | 1672              | -61.48      | -13           | -48.48            | -74.27            | -63.16             | 0.99                 | 4.82                  | V                  |
|          | 2509              | -59.02      | -13           | -46.02            | -76.85            | -60.98             | 1.29                 | 5.41                  | V                  |
|          | 3345              | -57.76      | -13           | -44.76            | -77.58            | -61.37             | 1.56                 | 7.32                  | V                  |
|          |                   |             |               |                   |                   |                    |                      |                       | V                  |
|          |                   |             |               |                   |                   |                    |                      |                       | V                  |
|          |                   |             |               |                   |                   |                    |                      |                       | V                  |
|          |                   |             |               |                   |                   |                    |                      |                       | V                  |



|         |      |        |     |        |        |        |      |      |   |
|---------|------|--------|-----|--------|--------|--------|------|------|---|
| Highest | 1696 | -63.29 | -13 | -50.29 | -75.8  | -64.89 | 1.00 | 4.75 | H |
|         | 2546 | -59.44 | -13 | -46.44 | -76.8  | -61.42 | 1.31 | 5.44 | H |
|         | 3395 | -57.94 | -13 | -44.94 | -77.79 | -61.76 | 1.57 | 7.54 | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         | 1696 | -60.97 | -13 | -47.97 | -73.96 | -62.57 | 1.00 | 4.75 | V |
|         | 2546 | -58.84 | -13 | -45.84 | -76.76 | -60.82 | 1.31 | 5.44 | V |
|         | 3395 | -57.86 | -13 | -44.86 | -77.81 | -61.68 | 1.57 | 7.54 | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |

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



**WCDMA 850**

| WCDMA 850 |                   |             |               |                   |                   |                    |                      |                       |                    |
|-----------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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    | 1652              | -63.18      | -13           | -50.18            | -75.23            | -64.92             | 0.98                 | 4.87                  | H                  |
|           | 2479              | -59.38      | -13           | -46.38            | -76.67            | -61.28             | 1.28                 | 5.34                  | H                  |
|           | 3305              | -57.76      | -13           | -44.76            | -77.16            | -61.21             | 1.54                 | 7.14                  | H                  |
|           |                   |             |               |                   |                   |                    |                      |                       | H                  |
|           |                   |             |               |                   |                   |                    |                      |                       | H                  |
|           |                   |             |               |                   |                   |                    |                      |                       | H                  |
|           |                   |             |               |                   |                   |                    |                      |                       | H                  |
|           | 1652              | -62.61      | -13           | -49.61            | -75.14            | -64.35             | 0.98                 | 4.87                  | V                  |
|           | 2479              | -58.86      | -13           | -45.86            | -76.57            | -60.76             | 1.28                 | 5.34                  | V                  |
|           | 3305              | -57.57      | -13           | -44.57            | -77.21            | -61.02             | 1.54                 | 7.14                  | V                  |
|           |                   |             |               |                   |                   |                    |                      |                       | V                  |
|           |                   |             |               |                   |                   |                    |                      |                       | V                  |
|           |                   |             |               |                   |                   |                    |                      |                       | V                  |
|           |                   |             |               |                   |                   |                    |                      |                       | V                  |
| Middle    | 1672              | -62.94      | -13           | -49.94            | -75.33            | -64.62             | 0.99                 | 4.82                  | H                  |
|           | 2509              | -59.31      | -13           | -46.31            | -76.65            | -61.27             | 1.29                 | 5.41                  | H                  |
|           | 3345              | -58.27      | -13           | -45.27            | -77.89            | -61.88             | 1.56                 | 7.32                  | H                  |
|           |                   |             |               |                   |                   |                    |                      |                       | H                  |
|           |                   |             |               |                   |                   |                    |                      |                       | H                  |
|           |                   |             |               |                   |                   |                    |                      |                       | H                  |
|           |                   |             |               |                   |                   |                    |                      |                       | H                  |
|           | 1672              | -62.75      | -13           | -49.75            | -75.55            | -64.43             | 0.99                 | 4.82                  | V                  |
|           | 2509              | -58.97      | -13           | -45.97            | -76.8             | -60.93             | 1.29                 | 5.41                  | V                  |
|           | 3345              | -57.85      | -13           | -44.85            | -77.63            | -61.46             | 1.56                 | 7.32                  | V                  |
|           |                   |             |               |                   |                   |                    |                      |                       | V                  |
|           |                   |             |               |                   |                   |                    |                      |                       | V                  |
|           |                   |             |               |                   |                   |                    |                      |                       | V                  |
|           |                   |             |               |                   |                   |                    |                      |                       | V                  |



|         |      |        |     |        |        |        |      |      |   |
|---------|------|--------|-----|--------|--------|--------|------|------|---|
| Highest | 1696 | -62.94 | -13 | -49.94 | -75.45 | -64.54 | 1.00 | 4.75 | H |
|         | 2546 | -58.97 | -13 | -45.97 | -76.37 | -60.95 | 1.31 | 5.44 | H |
|         | 3392 | -57.94 | -13 | -44.94 | -77.8  | -61.74 | 1.57 | 7.52 | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         | 1696 | -62.76 | -13 | -49.76 | -75.65 | -64.36 | 1.00 | 4.75 | V |
|         | 2546 | -58.84 | -13 | -45.84 | -76.75 | -60.82 | 1.31 | 5.44 | V |
|         | 3392 | -57.93 | -13 | -44.93 | -77.9  | -61.73 | 1.57 | 7.52 | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |

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





**GPRS 1900**

| GPRS 1900 |                   |              |               |                   |                   |                    |                      |                       |                    |
|-----------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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    | 3702              | -53.78       | -13           | -40.78            | -74.75            | -60.35             | 1.67                 | 8.24                  | H                  |
|           | 5550              | -47.86       | -13           | -34.86            | -73.15            | -54.93             | 2.65                 | 9.72                  | H                  |
|           | 11100             | -44.36       | -13           | -31.36            | -78.84            | -54.13             | 2.69                 | 12.46                 | H                  |
|           | 12948             | -42.24       | -13           | -29.24            | -79.29            | -52.26             | 2.92                 | 12.94                 | H                  |
|           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|           | 3702              | -55.11       | -13           | -42.11            | -76.02            | -61.68             | 1.67                 | 8.24                  | V                  |
|           | 5550              | -51.44       | -13           | -38.44            | -76.79            | -58.51             | 2.65                 | 9.72                  | V                  |
|           | 11100             | -45.77       | -13           | -32.77            | -80.01            | -55.54             | 2.69                 | 12.46                 | V                  |
|           | 12948             | -43.16       | -13           | -30.16            | -79.85            | -53.18             | 2.92                 | 12.94                 | V                  |
|           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|           |                   |              |               |                   |                   |                    |                      |                       | V                  |
| Middle    | 3762              | -51.18       | -13           | -38.18            | -72.12            | -57.81             | 1.69                 | 8.31                  | H                  |
|           | 5640              | -45.89       | -13           | -32.89            | -71.33            | -52.94             | 2.71                 | 9.76                  | H                  |
|           | 11280             | -39.65       | -13           | -26.65            | -74.39            | -49.35             | 2.68                 | 12.39                 | H                  |
|           | 13158             | -39.96       | -13           | -26.96            | -77.49            | -50.21             | 2.97                 | 13.22                 | H                  |
|           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|           | 3762              | -53.53       | -13           | -40.53            | -74.52            | -60.16             | 1.69                 | 8.31                  | V                  |
|           | 5640              | -49.58       | -13           | -36.58            | -75.11            | -56.63             | 2.71                 | 9.76                  | V                  |
|           | 11280             | -43.69       | -13           | -30.69            | -78.34            | -53.39             | 2.68                 | 12.39                 | V                  |
|           | 13158             | -42.79       | -13           | -29.79            | -80.15            | -53.04             | 2.97                 | 13.22                 | V                  |
|           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|           |                   |              |               |                   |                   |                    |                      |                       | V                  |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3700 | -56.85 | -13 | -43.85 | -77.82 | -63.42 | 1.67 | 8.24  | H |
|         | 5640 | -43.50 | -13 | -30.50 | -69    | -50.55 | 2.71 | 9.76  | H |
|         | 7400 | -51.01 | -13 | -38.01 | -78.2  | -60.15 | 2.46 | 11.60 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 3762 | -55.60 | -13 | -42.60 | -76.53 | -62.23 | 1.69 | 8.31  | V |
|         | 5640 | -46.59 | -13 | -33.59 | -72.07 | -53.64 | 2.71 | 9.76  | V |
|         | 7518 | -48.66 | -13 | -35.66 | -76.17 | -58.05 | 2.42 | 11.81 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |

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



**EDGE1900**

| EDGE 1900 |                   |              |               |                   |                   |                    |                      |                       |                    |
|-----------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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    | 3702              | -56.41       | -13           | -43.41            | -77.31            | -62.98             | 1.67                 | 8.24                  | H                  |
|           | 5550              | -53.36       | -13           | -40.36            | -78.69            | -60.43             | 2.65                 | 9.72                  | H                  |
|           | 7398              | -51.79       | -13           | -38.79            | -79.09            | -60.92             | 2.46                 | 11.60                 | H                  |
|           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|           | 3702              | -56.52       | -13           | -43.52            | -77.49            | -63.09             | 1.67                 | 8.24                  | V                  |
|           | 5550              | -53.01       | -13           | -40.01            | -78.31            | -60.08             | 2.65                 | 9.72                  | V                  |
|           | 7398              | -51.81       | -13           | -38.81            | -79.2             | -60.94             | 2.46                 | 11.60                 | V                  |
|           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|           |                   |              |               |                   |                   |                    |                      |                       | V                  |
| Middle    | 3762              | -54.19       | -13           | -41.19            | -75               | -60.82             | 1.69                 | 8.31                  | H                  |
|           | 5640              | -51.13       | -13           | -38.13            | -76.7             | -58.18             | 2.71                 | 9.76                  | H                  |
|           | 7518              | -51.64       | -13           | -38.64            | -78.91            | -61.03             | 2.42                 | 11.81                 | H                  |
|           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|           | 3762              | -57.53       | -13           | -44.53            | -78.48            | -64.16             | 1.69                 | 8.31                  | V                  |
|           | 5640              | -53.12       | -13           | -40.12            | -78.53            | -60.17             | 2.71                 | 9.76                  | V                  |
|           | 7518              | -51.22       | -13           | -38.22            | -78.79            | -60.61             | 2.42                 | 11.81                 | V                  |
|           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|           |                   |              |               |                   |                   |                    |                      |                       | V                  |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3822 | -53.76 | -13 | -40.76 | -74.63 | -60.44 | 1.71 | 8.39  | H |
|         | 5730 | -52.46 | -13 | -39.46 | -78.2  | -59.49 | 2.76 | 9.79  | H |
|         | 7638 | -49.39 | -13 | -36.39 | -77.03 | -58.89 | 2.38 | 11.88 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 3822 | -55.14 | -13 | -42.14 | -76.05 | -61.82 | 1.71 | 8.39  | V |
|         | 5730 | -52.44 | -13 | -39.44 | -78.07 | -59.47 | 2.76 | 9.79  | V |
|         | 7638 | -49.52 | -13 | -36.52 | -77.37 | -59.02 | 2.38 | 11.88 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      | V     |   |

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



**WCDMA 1900**

| WCDMA 1900 |                   |              |               |                   |                   |                    |                      |                       |                    |
|------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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     | 3702              | -57.23       | -13           | -44.23            | -78.2             | -63.8              | 1.67                 | 8.24                  | H                  |
|            | 5556              | -53.02       | -13           | -40.02            | -78.33            | -60.09             | 2.66                 | 9.72                  | H                  |
|            | 7410              | -51.80       | -13           | -38.80            | -78.98            | -60.96             | 2.46                 | 11.62                 | H                  |
|            |                   |              |               |                   |                   |                    |                      |                       | H                  |
|            |                   |              |               |                   |                   |                    |                      |                       | H                  |
|            |                   |              |               |                   |                   |                    |                      |                       | H                  |
|            |                   |              |               |                   |                   |                    |                      |                       | H                  |
|            | 3702              | -57.08       | -13           | -44.08            | -78.04            | -63.65             | 1.67                 | 8.24                  | V                  |
|            | 5556              | -53.45       | -13           | -40.45            | -78.73            | -60.52             | 2.66                 | 9.72                  | V                  |
|            | 7410              | -51.83       | -13           | -38.83            | -79.22            | -60.99             | 2.46                 | 11.62                 | V                  |
|            |                   |              |               |                   |                   |                    |                      |                       | V                  |
|            |                   |              |               |                   |                   |                    |                      |                       | V                  |
|            |                   |              |               |                   |                   |                    |                      |                       | V                  |
|            |                   |              |               |                   |                   |                    |                      |                       | V                  |
| Middle     | 3762              | -57.20       | -13           | -44.20            | -78.11            | -63.83             | 1.69                 | 8.31                  | H                  |
|            | 5640              | -52.06       | -13           | -39.06            | -77.56            | -59.11             | 2.71                 | 9.76                  | H                  |
|            | 7518              | -51.28       | -13           | -38.28            | -78.55            | -60.67             | 2.42                 | 11.81                 | H                  |
|            |                   |              |               |                   |                   |                    |                      |                       | H                  |
|            |                   |              |               |                   |                   |                    |                      |                       | H                  |
|            |                   |              |               |                   |                   |                    |                      |                       | H                  |
|            |                   |              |               |                   |                   |                    |                      |                       | H                  |
|            | 3762              | -57.45       | -13           | -44.45            | -78.38            | -64.08             | 1.69                 | 8.31                  | V                  |
|            | 5640              | -52.58       | -13           | -39.58            | -78.06            | -59.63             | 2.71                 | 9.76                  | V                  |
|            | 7518              | -51.02       | -13           | -38.02            | -78.53            | -60.41             | 2.42                 | 11.81                 | V                  |
|            |                   |              |               |                   |                   |                    |                      |                       | V                  |
|            |                   |              |               |                   |                   |                    |                      |                       | V                  |
|            |                   |              |               |                   |                   |                    |                      |                       | V                  |
|            |                   |              |               |                   |                   |                    |                      |                       | V                  |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3816 | -57.12 | -13 | -44.12 | -77.97 | -63.8  | 1.70 | 8.38  | H |
|         | 5724 | -52.46 | -13 | -39.46 | -78.17 | -59.5  | 2.75 | 9.79  | H |
|         | 7632 | -44.41 | -13 | -31.41 | -71.96 | -53.9  | 2.39 | 11.88 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 3816 | -57.73 | -13 | -44.73 | -78.65 | -64.41 | 1.70 | 8.38  | V |
|         | 5724 | -52.72 | -13 | -39.72 | -78.38 | -59.76 | 2.75 | 9.79  | V |
|         | 7632 | -49.37 | -13 | -36.37 | -77.22 | -58.86 | 2.39 | 11.88 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      | V     |   |

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