



# FCC RADIO TEST REPORT

FCC ID : PKRISGRM4210  
Equipment : WWAN LGA Radio Module  
Brand Name : Inseego  
Model Name : RM4210  
Applicant : Inseego Corp.  
9710 Scranton Road Suite 200, San  
Diego, CA 92121  
Manufacturer : Inseego Corp.  
9710 Scranton Road Suite 200, San  
Diego, CA 92121  
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

The product was received on Feb. 24, 2025 and testing was performed from Mar. 03, 2025 to Apr. 15, 2025. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

**Sporton International Inc. EMC & Wireless Communications Laboratory**  
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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## History of this test report

| Report No. | Version | Description             | Issue Date   |
|------------|---------|-------------------------|--------------|
| FG4N2547A  | 01      | Initial issue of report | May 08, 2025 |
|            |         |                         |              |
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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)(5)                                      | Effective Radiated Power (WCDMA Band V)                                             |                    |        |
|               | §24.232 (c)                                         | Equivalent Isotropic Radiated Power (WCDMA Band II)                                 |                    |        |
|               | §27.50 (d)(4)                                       | Equivalent Isotropic Radiated Power (WCDMA Band IV)                                 |                    |        |
| 3.3           | §24.232 (d)                                         | Peak-to-Average Ratio                                                               | Pass               | -      |
| 3.4           | §2.1049<br>§22.917 (b)<br>§24.238 (b)<br>§27.53 (g) | Occupied Bandwidth (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)                   | Pass               | -      |
| 3.5           | §2.1051<br>§22.917 (a)<br>§24.238 (a)<br>§27.53 (g) | Band Edge Measurement (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)                | Pass               | -      |
| 3.6           | §2.1051<br>§22.917 (a)<br>§24.238 (a)<br>§27.53 (g) | Conducted Emission (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)                   | Pass               | -      |
| 3.7           | §2.1055<br>§22.355<br>§24.235<br>§27.54             | Frequency Stability<br>Temperature & Voltage                                        | Pass               | -      |
| 4.4           | §2.1053<br>§22.917 (a)<br>§24.238 (a)<br>§27.53 (h) | Field Strength of Spurious Radiation (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV) | Pass               | -      |

**Conformity Assessment Condition:**

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

**Reviewed by: Danny Lee**

**Report Producer: Michelle Chen**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

| Product Feature                                            |
|------------------------------------------------------------|
| <b>General Specs</b><br>3G-WCDMA, 4G-LTE, 5G-FR1 and GNSS. |
| <b>Antenna Type</b><br>WWAN: Fixed Internal Antenna        |

**Remark:**

1. The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.
2. Maximum allow antenna Gain: refer MPE Report FA4N2547.

## 1.2 Modification of EUT

No modifications made to the EUT during the testing.

### 1.3 Testing Location

|                              |                                                                                                                        |
|------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Test Site</b>             | Sporton International Inc. EMC & Wireless Communications Laboratory                                                    |
| <b>Test Site Location</b>    | No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, 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><br>TH03-HY                                                                                     |
| <b>Test Engineer</b>         | Eric Wu                                                                                                                |
| <b>Temperature (°C)</b>      | 19.0~21.0                                                                                                              |
| <b>Relative Humidity (%)</b> | 47.5~49.5                                                                                                              |

|                              |                                                                                                                                                  |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Site</b>             | Sporton International Inc. Wensan Laboratory                                                                                                     |
| <b>Test Site Location</b>    | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist.,<br>Taoyuan City 333010, Taiwan (R.O.C.)<br>TEL: +886-3-327-0868<br>FAX: +886-3-327-0855 |
| <b>Test Site No.</b>         | <b>Sporton Site No.</b><br>03CH20-HY (TAF Code: 3786)                                                                                            |
| <b>Test Engineer</b>         | John Chuang, David Dai and Sam Chou                                                                                                              |
| <b>Temperature (°C)</b>      | 19.5~22.5                                                                                                                                        |
| <b>Relative Humidity (%)</b> | 65.7~70.6                                                                                                                                        |
| <b>Remark</b>                | The Field Strength of Spurious Radiation test item subcontracted to Sporton International Inc. Wensan Laboratory.                                |

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

FCC Designation No.: TW1190 and TW3786

### 1.4 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

**Remark:**

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.



## 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, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in two degrees (degree 0 or degree 90), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and worst plane as below.

Radiated emissions were investigated as following frequency range:

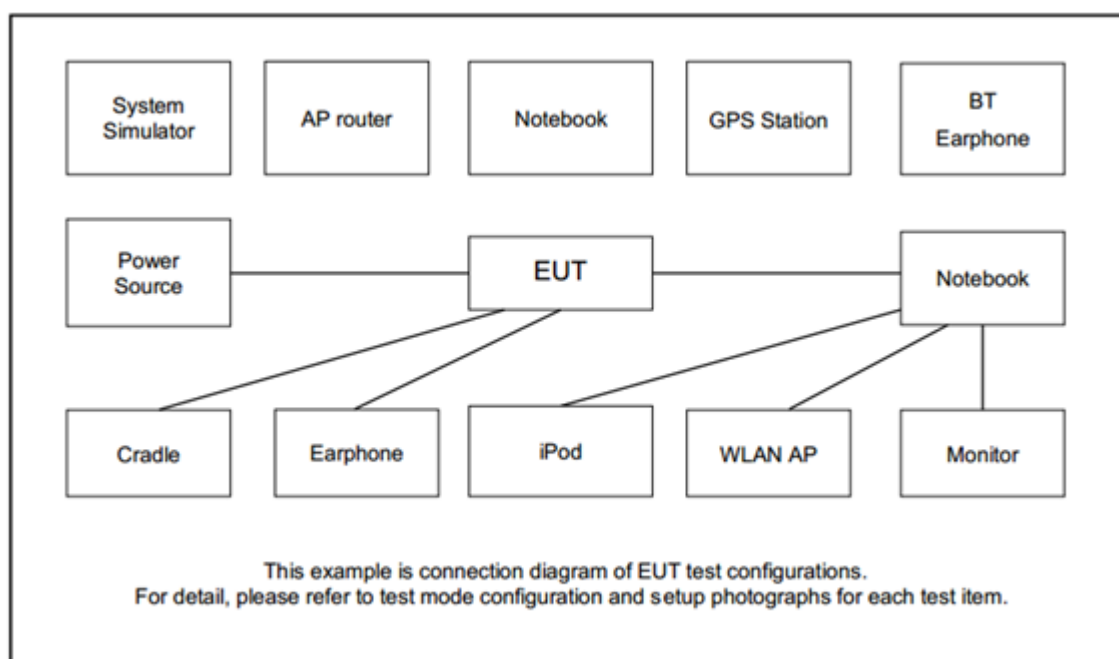
1. 30 MHz to 9000 MHz for WCDMA Band V
2. 30 MHz to 18000 MHz for WCDMA Band IV
3. 30 MHz to 19100 MHz for WCDMA Band II

All modes, 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       |
| WCDMA Band V  | ■ RMC 12.2Kbps Link | ■ RMC 12.2Kbps Link |
| WCDMA Band II | ■ RMC 12.2Kbps Link | ■ RMC 12.2Kbps Link |
| WCDMA Band IV | ■ RMC 12.2Kbps Link | ■ RMC 12.2Kbps Link |

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration

| Item | Equipment        | Brand Name | Model No.    | FCC ID | Data Cable | Power Cord                                                 |
|------|------------------|------------|--------------|--------|------------|------------------------------------------------------------|
| 1.   | System Simulator | Anritsu    | MT8821C      | N/A    | N/A        | Unshielded, 1.8 m                                          |
| 2.   | Notebook         | DELL       | Latitude5310 | N/A    | N/A        | AC I/P:<br>Unshielded, 1.2 m<br>DC O/P:<br>Shielded, 1.8 m |
| 3.   | Power Supply     | Agilent    | E3610A       | N/A    | N/A        | N/A                                                        |

## 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 10 dB 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 |
| WCDMA<br>Band V  | Channel                | 4132   | 4182   | 4233    |
|                  | Frequency              | 826.4  | 836.4  | 846.6   |
| WCDMA<br>Band II | Channel                | 9262   | 9400   | 9538    |
|                  | Frequency              | 1852.4 | 1880.0 | 1907.6  |
| WCDMA<br>Band IV | Channel                | 1312   | 1413   | 1513    |
|                  | Frequency              | 1712.4 | 1732.6 | 1752.6  |

### 3 Conducted Test Result

#### 3.1 Measuring Instruments

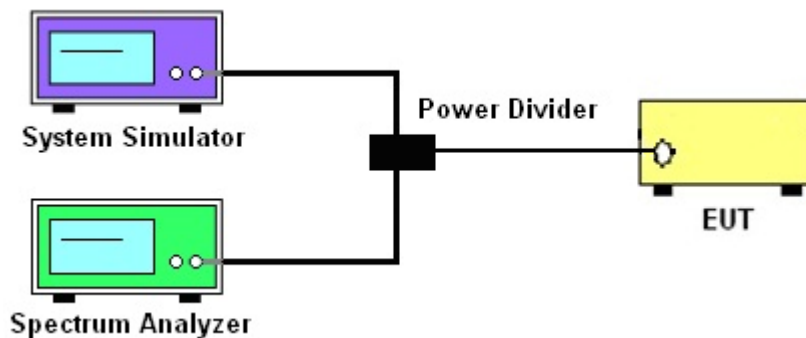
Please refer to the measuring equipment list in this test report.

##### 3.1.1 Test Setup

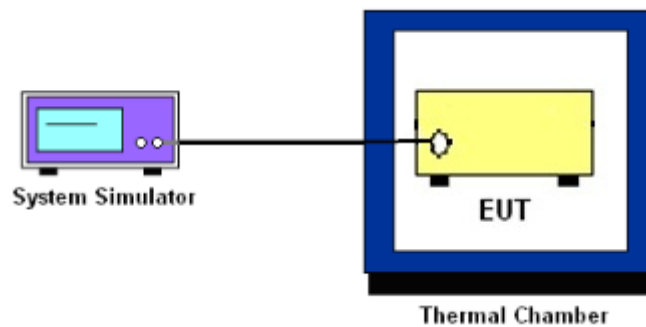
##### 3.1.2 Conducted Output Power



##### 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 WCDMA Band V

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

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

According to KDB 412172 D01 Power Approach,

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

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

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

### 3.2.2 Test Procedures

1. The transmitter output port is connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select the lowest, middle, and the 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 ANSI C63.26-2015 Section 5.2.6

1. The EUT is 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 ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT is 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 6.1.

1. The EUT is connected to the spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT is connected to the spectrum analyzer by an RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. The band edges of low and high channels for the highest RF powers are measured.
4. The RF fundamental frequency shall 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 6.1.

1. The EUT is connected to the spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT is connected to the spectrum analyzer by an RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency is measured.
4. The conducted spurious emission for the whole frequency range is taken.
5. The RF fundamental frequency shall 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 & 27.54

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 is set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature is decreased to  $-30^{\circ}\text{C}$  and the EUT is stabilized before testing. Power is applied and the maximum change in frequency is recorded within one minute.
3. With power OFF, the temperature is raised in  $10^{\circ}\text{C}$  steps up to  $50^{\circ}\text{C}$ . The EUT is stabilized at each step for at least half an hour. Power is applied and the maximum frequency change is 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 is 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 is varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency is measured for the worst case.

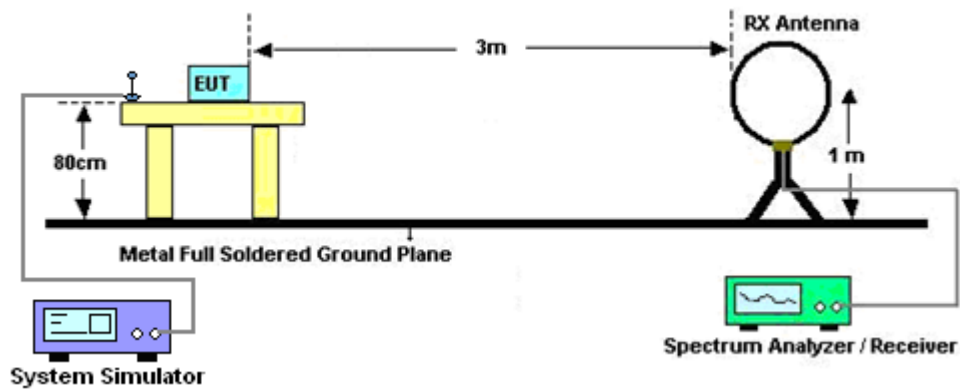
## 4 Radiated Test Items

### 4.1 Measuring Instruments

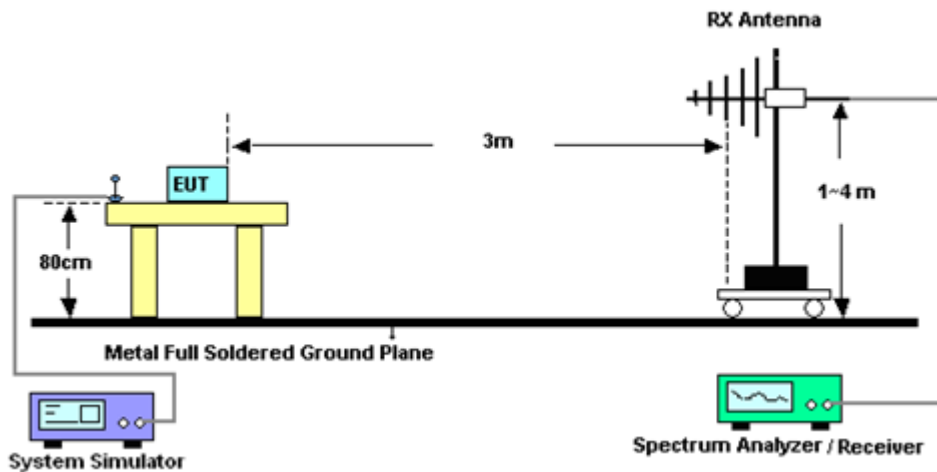
Please refer to the measuring equipment list in this test report.

### 4.2 Test Setup

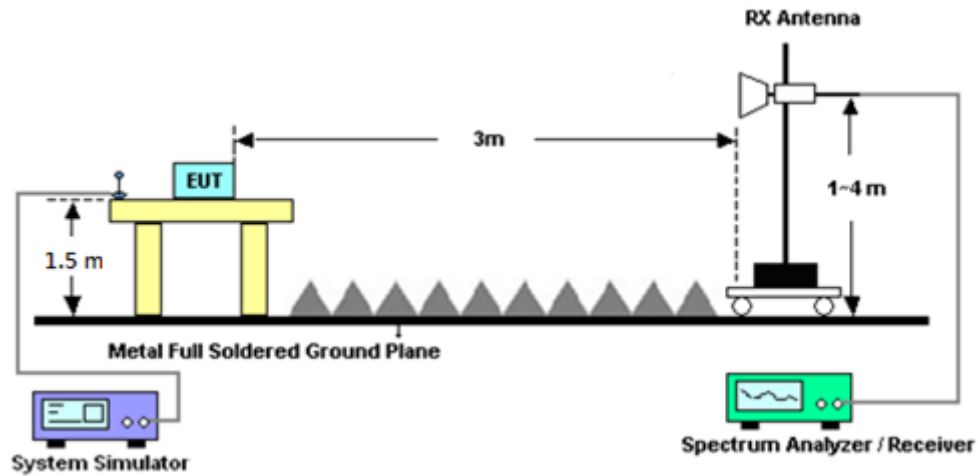
For radiated test below 30MHz



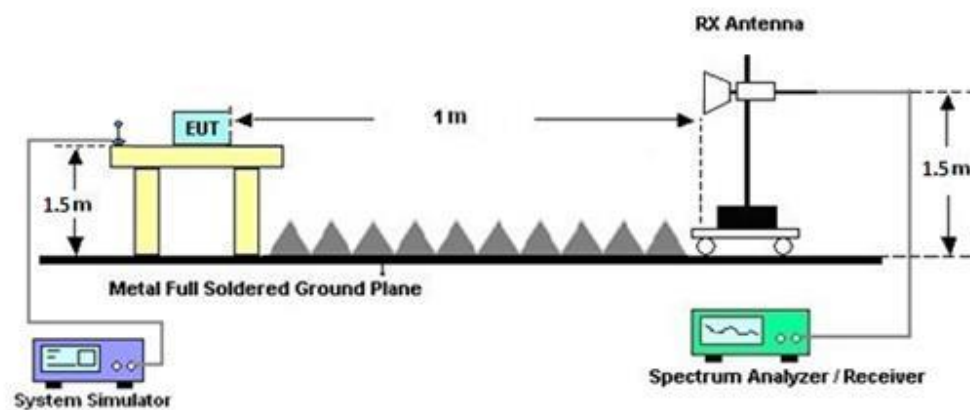
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



### 4.3 Test Result of Radiated Test

Please refer to Appendix B.

**Note:**

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

## 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 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

1. The EUT is placed on a rotatable wooden table 0.8 meters for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz above the ground.
2. The EUT is set 3 meters away from the receiving antenna, which is mounted on the antenna tower.
3. The table is 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 = 1 MHz, VBW = 3 MHz, taking record of maximum spurious emission.
6. To convert spectrum reading E(dBuV/m) to EIRP(dBm)  
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77,$$
where d is the distance at which field strength limit is specified in the rules
7. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
8. ERP (dBm) = EIRP (dBm) - 2.15
9. The RF fundamental frequency shall be excluded against the limit line in the operating frequency band.



## 5 List of Measuring Equipment

| Instrument                                      | Brand Name         | Model No.                       | Serial No.                         | Characteristics                  | Calibration Date | Test Date                       | Due Date      | Remark                   |
|-------------------------------------------------|--------------------|---------------------------------|------------------------------------|----------------------------------|------------------|---------------------------------|---------------|--------------------------|
| EMI Test Receiver                               | Keysight           | N9038A(MXE)                     | MY57290111                         | N/A                              | Nov. 22, 2024    | Mar. 13, 2025~<br>Apr. 15, 2025 | Nov. 21, 2025 | Radiation<br>(03CH20-HY) |
| Loop Antenna                                    | Rohde & Schwarz    | HFH2-Z2                         | 100488                             | 9 kHz~30 MHz                     | Aug. 29, 2024    | Mar. 13, 2025~<br>Apr. 15, 2025 | Aug. 28, 2025 | Radiation<br>(03CH20-HY) |
| Preamplifier                                    | EMEC               | EM18G40G                        | 060871                             | 18GHz~40GHz                      | Aug. 23, 2024    | Mar. 13, 2025~<br>Apr. 15, 2025 | Aug. 22, 2025 | Radiation<br>(03CH20-HY) |
| Controller                                      | ChainTek           | 3000-1                          | N/A                                | Control Turn<br>table & Ant Mast | N/A              | Mar. 13, 2025~<br>Apr. 15, 2025 | N/A           | Radiation<br>(03CH20-HY) |
| Antenna Mast                                    | ChainTek           | MBS-520-1                       | N/A                                | 1m~4m                            | N/A              | Mar. 13, 2025~<br>Apr. 15, 2025 | N/A           | Radiation<br>(03CH20-HY) |
| Turn Table                                      | ChainTek           | T-200-S-1                       | N/A                                | 0~360 Degree                     | N/A              | Mar. 13, 2025~<br>Apr. 15, 2025 | N/A           | Radiation<br>(03CH20-HY) |
| Signal Analyzer                                 | Keysight           | N9010B                          | MY64320114                         | N/A                              | Oct. 05, 2024    | Mar. 13, 2025~<br>Apr. 15, 2025 | Oct. 04, 2025 | Radiation<br>(03CH20-HY) |
| Signal Analyzer                                 | Keysight           | N9010B                          | MY60240520                         | N/A                              | Dec. 09, 2024    | Mar. 13, 2025~<br>Apr. 15, 2025 | Dec. 08, 2025 | Radiation<br>(03CH20-HY) |
| Bilog Antenna                                   | TESEQ              | CBL<br>6111D&00800N<br>1D01N-06 | 55606 & 08                         | 30MHz~1GHz                       | Nov. 27, 2024    | Mar. 13, 2025~<br>Apr. 15, 2025 | Nov. 26, 2025 | Radiation<br>(03CH20-HY) |
| Horn Antenna                                    | SCHWARZBE<br>CK    | BBHA 9120 D                     | 02360                              | 1GHz-18GHz                       | Nov. 01, 2024    | Mar. 13, 2025~<br>Apr. 15, 2025 | Oct. 31, 2025 | Radiation<br>(03CH20-HY) |
| SHF-EHF Horn<br>Antenna                         | SCHWARZBE<br>CK    | BBHA 9170                       | 1223                               | 18GHz-40GHz                      | Jun. 24, 2024    | Mar. 13, 2025~<br>Apr. 15, 2025 | Jun. 23, 2025 | Radiation<br>(03CH20-HY) |
| Preamplifier                                    | COM-POWER          | PAM-103                         | 18020201                           | 1MHz-1000MHz                     | Dec. 31, 2024    | Mar. 13, 2025~<br>Apr. 15, 2025 | Dec. 30, 2025 | Radiation<br>(03CH20-HY) |
| Amplifier                                       | EMCI               | EMC118A45SE                     | 980792                             | N/A                              | Nov. 12, 2024    | Mar. 13, 2025~<br>Apr. 15, 2025 | Nov. 11, 2025 | Radiation<br>(03CH20-HY) |
| RF Cable                                        | HUBER +<br>SUHNER  | SUCOFLEX<br>102                 | 519229/2,80<br>4015/2,8040<br>27/2 | N/A                              | Jan. 16, 2025    | Mar. 13, 2025~<br>Apr. 15, 2025 | Jan. 15, 2026 | Radiation<br>(03CH20-HY) |
| Hygrometer                                      | TECEPEL            | DTM-303A                        | TP215159                           | N/A                              | Sep. 10, 2024    | Mar. 13, 2025~<br>Apr. 15, 2025 | Sep. 09, 2025 | Radiation<br>(03CH20-HY) |
| Software                                        | Audix              | N/A                             | RK-002156                          | N/A                              | N/A              | Mar. 13, 2025~<br>Apr. 15, 2025 | N/A           | Radiation<br>(03CH20-HY) |
| Spectrum<br>Analyzer                            | Rohde &<br>Schwarz | FSP30                           | 101329                             | 9kHz~30GHz                       | Sep. 25, 2024    | Mar. 03, 2025~<br>Mar. 20, 2025 | Sep. 24, 2025 | Conducted<br>(TH03-HY)   |
| DC Power<br>Supply                              | GW Instek          | GPE-2323                        | GEU871221                          | 0V~64V ; 0A~6A                   | Apr. 09, 2024    | Mar. 03, 2025~<br>Mar. 20, 2025 | Apr. 08, 2025 | Conducted<br>(TH03-HY)   |
| Base Station<br>(Measure)                       | Rohde &<br>Schwarz | CMU200                          | 117995                             | GSM / GPRS /<br>WCDMA /<br>CDMA  | Aug. 08, 2024    | Mar. 03, 2025~<br>Mar. 20, 2025 | Aug. 07, 2025 | Conducted<br>(TH03-HY)   |
| Temperature &<br>Humidity<br>Cabinet<br>Chamber | ESPEC              | SH-641                          | 92013720                           | -40℃~90℃                         | Sep. 06, 2024    | Mar. 03, 2025~<br>Mar. 20, 2025 | Sep. 05, 2025 | Conducted<br>(TH03-HY)   |
| Hygrometer                                      | TECEPEL            | DTM-303A                        | TP201996                           | N/A                              | Nov. 01, 2024    | Mar. 03, 2025~<br>Mar. 20, 2025 | Oct. 31, 2025 | Conducted<br>(TH03-HY)   |

## 6 Measurement Uncertainty

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

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 6.70 dB |
|-------------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.40 dB |
|-------------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.60 dB |
|-------------------------------------------------------------------------|---------|

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

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.70 dB |
|-------------------------------------------------------------------------|---------|



## Appendix A. Test Results of Conducted Test

## Conducted Output Power(Average power) &amp; ERP / EIRP

| WCDMA Band V Maximum Average Power [dBm] (GT - LC = 8.4 dB) |          |       |       |           |         |
|-------------------------------------------------------------|----------|-------|-------|-----------|---------|
| Channel                                                     | 4132     | 4182  | 4233  | ERP (dBm) | ERP (W) |
| Frequency                                                   | 826.4    | 836.4 | 846.6 |           |         |
| RMC 12.2K                                                   | 24.53    | 23.77 | 24.63 | 30.88     | 1.2246  |
| HSDPA Subtest-1                                             | 23.99    | 23.31 | 23.87 |           |         |
| HSDPA Subtest-2                                             | 23.78    | 23.25 | 23.99 |           |         |
| HSDPA Subtest-3                                             | 23.30    | 22.77 | 23.32 |           |         |
| HSDPA Subtest-4                                             | 23.28    | 22.77 | 23.50 |           |         |
| HSUPA Subtest-1                                             | 23.86    | 23.30 | 23.96 |           |         |
| HSUPA Subtest-2                                             | 22.00    | 21.32 | 21.98 |           |         |
| HSUPA Subtest-3                                             | 22.88    | 22.31 | 22.98 |           |         |
| HSUPA Subtest-4                                             | 21.98    | 21.36 | 21.86 |           |         |
| HSUPA Subtest-5                                             | 23.90    | 23.30 | 23.85 |           |         |
| Limit                                                       | ERP < 7W |       |       | Result    | Pass    |

| WCDMA Band II Maximum Average Power [dBm] (GT - LC = 7.5 dB) |           |       |        |            |          |
|--------------------------------------------------------------|-----------|-------|--------|------------|----------|
| Channel                                                      | 9262      | 9400  | 9538   | EIRP (dBm) | EIRP (W) |
| Frequency                                                    | 1852.4    | 1880  | 1907.6 |            |          |
| RMC 12.2K                                                    | 24.90     | 24.97 | 24.85  | 32.47      | 1.7660   |
| HSDPA Subtest-1                                              | 23.82     | 23.88 | 23.97  |            |          |
| HSDPA Subtest-2                                              | 23.80     | 23.87 | 23.86  |            |          |
| HSDPA Subtest-3                                              | 23.30     | 23.37 | 23.43  |            |          |
| HSDPA Subtest-4                                              | 23.32     | 23.40 | 23.42  |            |          |
| HSUPA Subtest-1                                              | 23.31     | 23.95 | 23.88  |            |          |
| HSUPA Subtest-2                                              | 21.31     | 21.65 | 21.83  |            |          |
| HSUPA Subtest-3                                              | 22.30     | 22.67 | 22.90  |            |          |
| HSUPA Subtest-4                                              | 21.32     | 21.63 | 21.90  |            |          |
| HSUPA Subtest-5                                              | 23.40     | 23.60 | 23.90  |            |          |
| Limit                                                        | EIRP < 2W |       |        | Result     | Pass     |

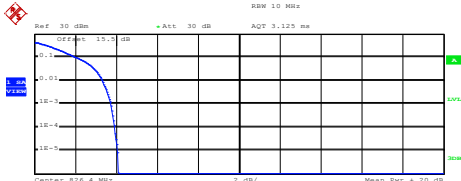
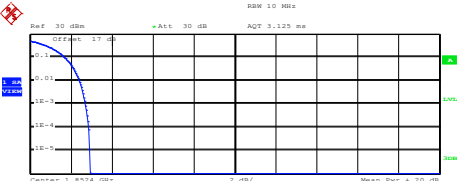
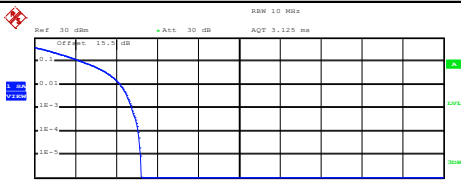
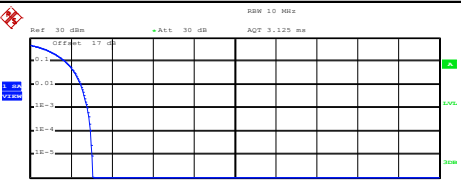
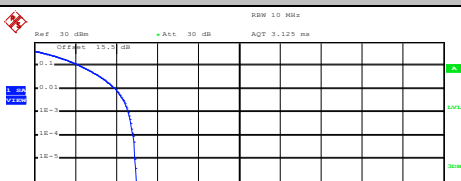
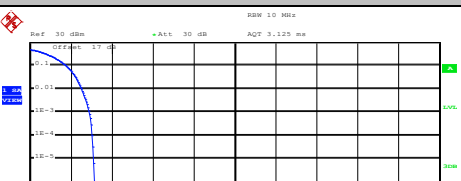
| WCDMA Band IV Maximum Average Power [dBm] (GT - LC = 4.5 dB) |           |        |        |            |          |
|--------------------------------------------------------------|-----------|--------|--------|------------|----------|
| Channel                                                      | 1312      | 1413   | 1513   | EIRP (dBm) | EIRP (W) |
| Frequency                                                    | 1712.4    | 1732.6 | 1752.6 |            |          |
| RMC 12.2K                                                    | 24.92     | 24.79  | 24.27  | 29.42      | 0.8750   |
| HSDPA Subtest-1                                              | 23.98     | 23.79  | 23.54  |            |          |
| HSDPA Subtest-2                                              | 23.96     | 23.84  | 23.57  |            |          |
| HSDPA Subtest-3                                              | 23.45     | 23.33  | 23.08  |            |          |
| HSDPA Subtest-4                                              | 23.48     | 23.31  | 23.03  |            |          |
| HSUPA Subtest-1                                              | 23.86     | 23.99  | 23.64  |            |          |
| HSUPA Subtest-2                                              | 21.93     | 21.80  | 21.30  |            |          |
| HSUPA Subtest-3                                              | 22.95     | 22.73  | 22.27  |            |          |
| HSUPA Subtest-4                                              | 21.94     | 21.71  | 21.33  |            |          |
| HSUPA Subtest-5                                              | 24.00     | 23.80  | 23.30  |            |          |
| Limit                                                        | EIRP < 1W |        |        | Result     | Pass     |



## A2. WCDMA

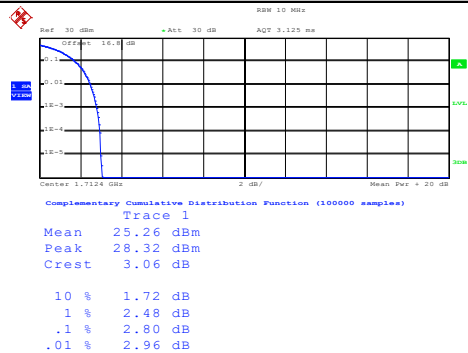
### Peak-to-Average Ratio

| Mode       | WCDMA Band V | WCDMA Band II | WCDMA Band IV | Limit: 13dB |
|------------|--------------|---------------|---------------|-------------|
| Mod.       | RMC 12.2Kbps | RMC 12.2Kbps  | RMC 12.2Kbps  | Result      |
| Lowest CH  | 3.76         | 2.72          | 2.80          | PASS        |
| Middle CH  | 4.76         | 2.80          | 2.76          |             |
| Highest CH | 4.60         | 2.92          | 3.16          |             |

| WCDMA Band V (RMC 12.2Kbps)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | WCDMA Band II (RMC 12.2Kbps) |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------|------|-----------|-------|---------|------|---------|-----|---------|------|---------|-------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|------|-----------|-------|---------|------|---------|-----|---------|------|---------|-------|---------|
| Lowest Channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Lowest Channel               |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
|  <p>Center 826.4 MHz</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <table border="1"> <tr><td>Mean</td><td>24.22 dBm</td></tr> <tr><td>Peak</td><td>28.32 dBm</td></tr> <tr><td>Crest</td><td>4.10 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>2.08 dB</td></tr> <tr><td>1 %</td><td>3.32 dB</td></tr> <tr><td>.1 %</td><td>3.76 dB</td></tr> <tr><td>.01 %</td><td>3.92 dB</td></tr> </table> <p>Date: 13.MAR.2025 11:27:13</p>   | Mean                         | 24.22 dBm | Peak | 28.32 dBm | Crest | 4.10 dB | 10 % | 2.08 dB | 1 % | 3.32 dB | .1 % | 3.76 dB | .01 % | 3.92 dB |  <p>Center 1.8524 GHz</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <table border="1"> <tr><td>Mean</td><td>24.91 dBm</td></tr> <tr><td>Peak</td><td>27.83 dBm</td></tr> <tr><td>Crest</td><td>2.92 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>1.72 dB</td></tr> <tr><td>1 %</td><td>2.40 dB</td></tr> <tr><td>.1 %</td><td>2.72 dB</td></tr> <tr><td>.01 %</td><td>2.88 dB</td></tr> </table> <p>Date: 13.MAR.2025 10:37:19</p>   | Mean | 24.91 dBm | Peak | 27.83 dBm | Crest | 2.92 dB | 10 % | 1.72 dB | 1 % | 2.40 dB | .1 % | 2.72 dB | .01 % | 2.88 dB |
| Mean                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 24.22 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 28.32 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Crest                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4.10 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2.08 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3.32 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.76 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .01 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3.92 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Mean                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 24.91 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 27.83 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Crest                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2.92 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.72 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.40 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2.72 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .01 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2.88 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Middle Channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Middle Channel               |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
|  <p>Center 826.4 MHz</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <table border="1"> <tr><td>Mean</td><td>23.73 dBm</td></tr> <tr><td>Peak</td><td>28.96 dBm</td></tr> <tr><td>Crest</td><td>5.22 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>2.40 dB</td></tr> <tr><td>1 %</td><td>4.20 dB</td></tr> <tr><td>.1 %</td><td>4.76 dB</td></tr> <tr><td>.01 %</td><td>5.08 dB</td></tr> </table> <p>Date: 13.MAR.2025 11:27:38</p>  | Mean                         | 23.73 dBm | Peak | 28.96 dBm | Crest | 5.22 dB | 10 % | 2.40 dB | 1 % | 4.20 dB | .1 % | 4.76 dB | .01 % | 5.08 dB |  <p>Center 1.88 GHz</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <table border="1"> <tr><td>Mean</td><td>24.98 dBm</td></tr> <tr><td>Peak</td><td>28.04 dBm</td></tr> <tr><td>Crest</td><td>3.05 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>1.72 dB</td></tr> <tr><td>1 %</td><td>2.48 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: 13.MAR.2025 10:37:39</p>    | Mean | 24.98 dBm | Peak | 28.04 dBm | Crest | 3.05 dB | 10 % | 1.72 dB | 1 % | 2.48 dB | .1 % | 2.80 dB | .01 % | 2.96 dB |
| Mean                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 23.73 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 28.96 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Crest                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5.22 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2.40 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4.20 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4.76 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .01 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5.08 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Mean                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 24.98 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 28.04 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Crest                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3.05 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.72 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.48 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2.80 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .01 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2.96 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Highest Channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Highest Channel              |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
|  <p>Center 846.6 MHz</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <table border="1"> <tr><td>Mean</td><td>24.05 dBm</td></tr> <tr><td>Peak</td><td>29.03 dBm</td></tr> <tr><td>Crest</td><td>4.98 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>2.24 dB</td></tr> <tr><td>1 %</td><td>3.96 dB</td></tr> <tr><td>.1 %</td><td>4.60 dB</td></tr> <tr><td>.01 %</td><td>4.84 dB</td></tr> </table> <p>Date: 13.MAR.2025 11:27:58</p> | Mean                         | 24.05 dBm | Peak | 29.03 dBm | Crest | 4.98 dB | 10 % | 2.24 dB | 1 % | 3.96 dB | .1 % | 4.60 dB | .01 % | 4.84 dB |  <p>Center 1.9076 GHz</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <table border="1"> <tr><td>Mean</td><td>24.88 dBm</td></tr> <tr><td>Peak</td><td>28.04 dBm</td></tr> <tr><td>Crest</td><td>3.16 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>1.76 dB</td></tr> <tr><td>1 %</td><td>2.52 dB</td></tr> <tr><td>.1 %</td><td>2.92 dB</td></tr> <tr><td>.01 %</td><td>3.04 dB</td></tr> </table> <p>Date: 13.MAR.2025 10:37:59</p> | Mean | 24.88 dBm | Peak | 28.04 dBm | Crest | 3.16 dB | 10 % | 1.76 dB | 1 % | 2.52 dB | .1 % | 2.92 dB | .01 % | 3.04 dB |
| Mean                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 24.05 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 29.03 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Crest                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4.98 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2.24 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3.96 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4.60 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .01 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4.84 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Mean                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 24.88 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 28.04 dBm                    |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| Crest                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3.16 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.76 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| 1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.52 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2.92 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |
| .01 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3.04 dB                      |           |      |           |       |         |      |         |     |         |      |         |       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |           |      |           |       |         |      |         |     |         |      |         |       |         |

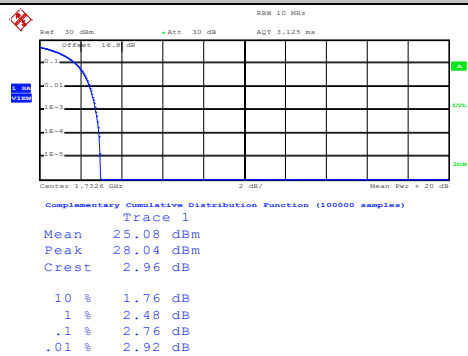
## WCDMA Band IV (RMC 12.2Kbps)

## Lowest Channel



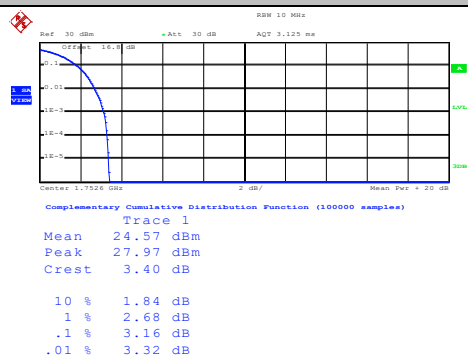
Date: 13.MAR.2025 10:57:50

## Middle Channel



Date: 13.MAR.2025 10:58:08

## Highest Channel



Date: 13.MAR.2025 10:58:28

**26dB Bandwidth**

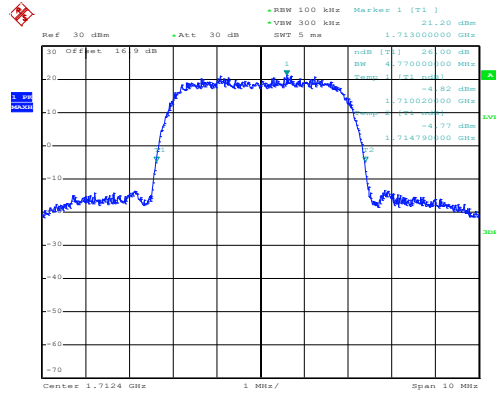
| Mode       | WCDMA Band V<br>26dB BW(MHz) | WCDMA Band II<br>26dB BW(MHz) | WCDMA Band IV<br>26dB BW(MHz) |
|------------|------------------------------|-------------------------------|-------------------------------|
| Mod.       | RMC 12.2Kbps                 | RMC 12.2Kbps                  | RMC 12.2Kbps                  |
| Lowest CH  | 4.82                         | 4.73                          | 4.77                          |
| Middle CH  | 4.73                         | 4.76                          | 4.77                          |
| Highest CH | 4.86                         | 4.76                          | 4.72                          |



| WCDMA Band V (RMC 12.2Kbps)                   | WCDMA Band II (RMC 12.2Kbps)                  |
|-----------------------------------------------|-----------------------------------------------|
| Lowest Channel                                | Lowest Channel                                |
| <div></div> <p>Date: 13.MAR.2025 11:12:46</p> | <div></div> <p>Date: 13.MAR.2025 10:17:05</p> |
| Middle Channel                                | Middle Channel                                |
| <div></div> <p>Date: 13.MAR.2025 11:13:30</p> | <div></div> <p>Date: 13.MAR.2025 10:17:46</p> |
| Highest Channel                               | Highest Channel                               |
| <div></div> <p>Date: 13.MAR.2025 11:14:09</p> | <div></div> <p>Date: 13.MAR.2025 10:18:28</p> |

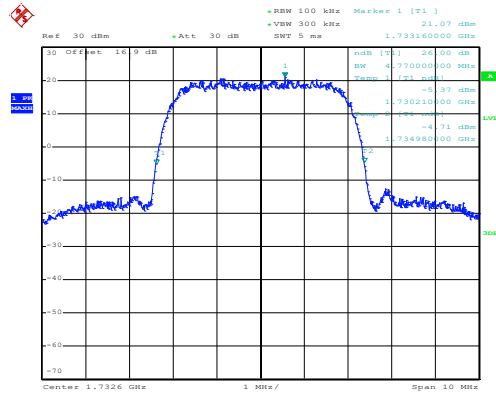
## WCDMA Band IV (RMC 12.2Kbps)

## Lowest Channel



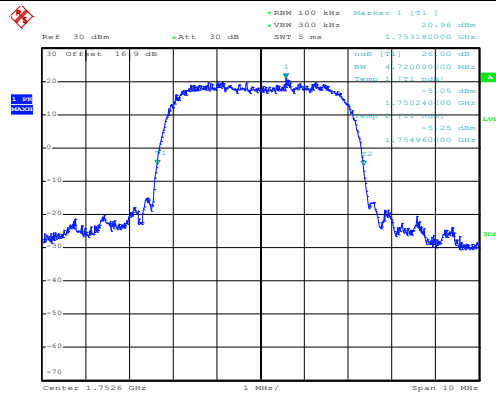
Date: 20.MAR.2025 14:40:24

## Middle Channel



Date: 20.MAR.2025 14:41:03

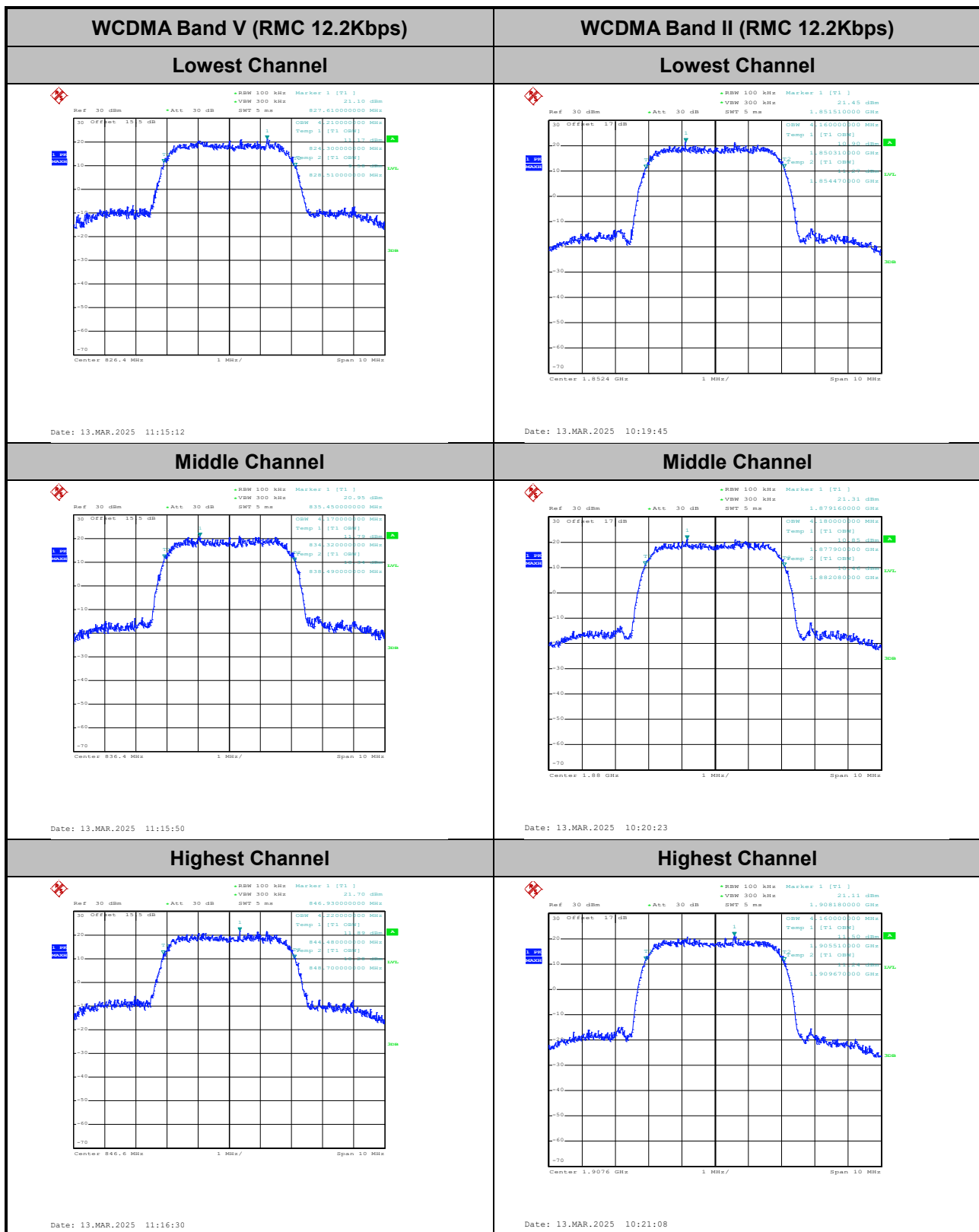
## Highest Channel



Date: 20.MAR.2025 14:41:41

**Occupied Bandwidth**

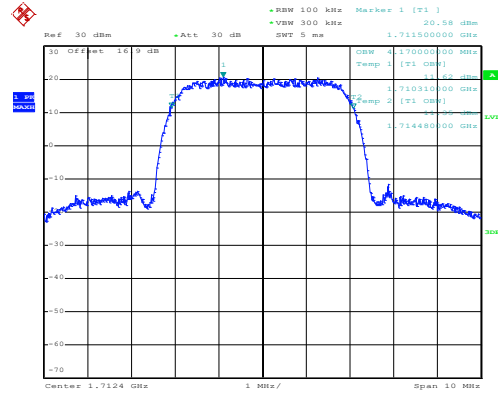
| Mode       | WCDMA Band V<br>99%OBW(MHz) | WCDMA Band II<br>99%OBW(MHz) | WCDMA Band IV<br>99%OBW(MHz) |
|------------|-----------------------------|------------------------------|------------------------------|
| Mod.       | RMC 12.2Kbps                | RMC 12.2Kbps                 | RMC 12.2Kbps                 |
| Lowest CH  | 4.21                        | 4.16                         | 4.17                         |
| Middle CH  | 4.17                        | 4.18                         | 4.16                         |
| Highest CH | 4.22                        | 4.16                         | 4.16                         |





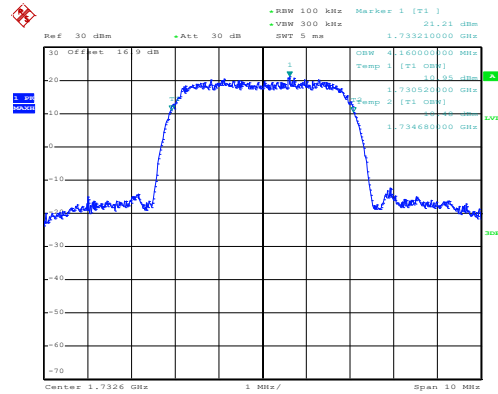
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



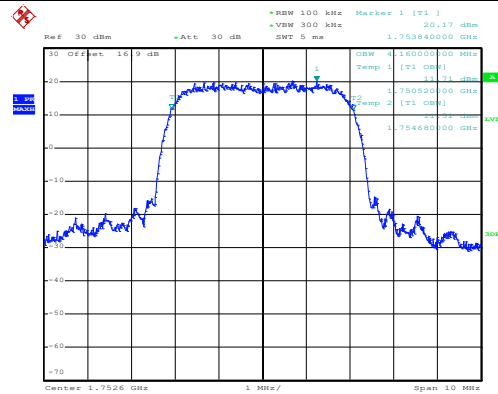
Date: 20.MAR.2025 14:42:37

Middle Channel



Date: 20.MAR.2025 14:43:14

Highest Channel



Date: 20.MAR.2025 14:43:51

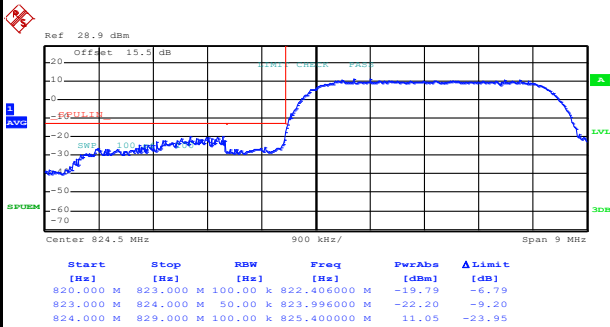


Conducted Band Edge

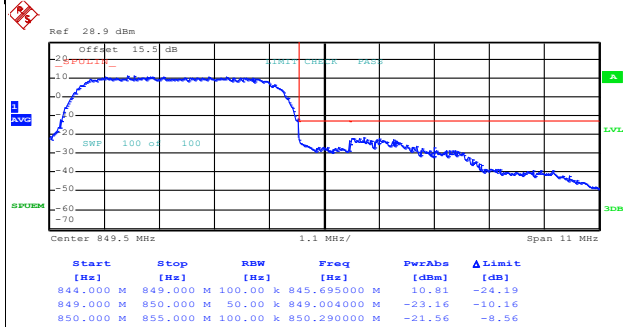
WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



Date: 13.MAR.2025 11:19:59



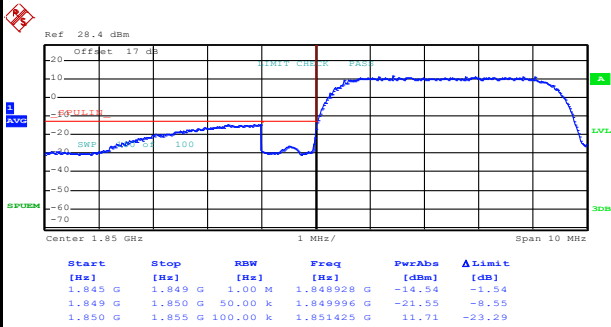
Date: 13.MAR.2025 11:22:51



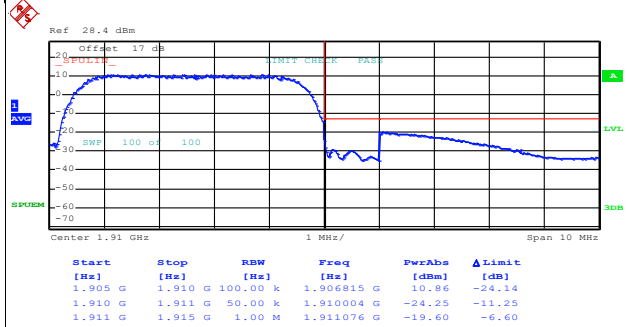
WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



Date: 13.MAR.2025 10:24:35



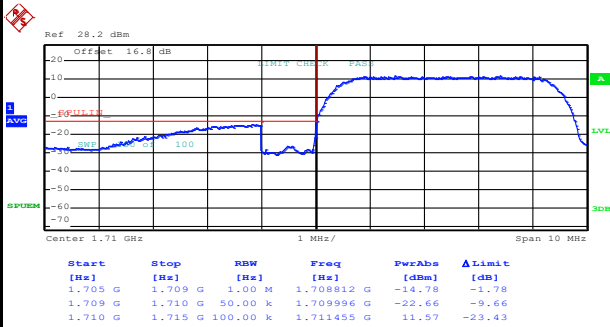
Date: 13.MAR.2025 10:27:30



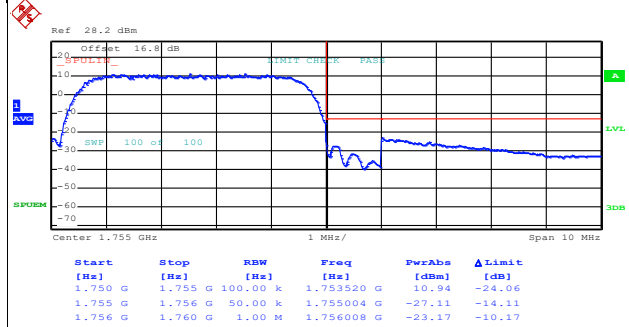
WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



Date: 13.MAR.2025 10:47:57



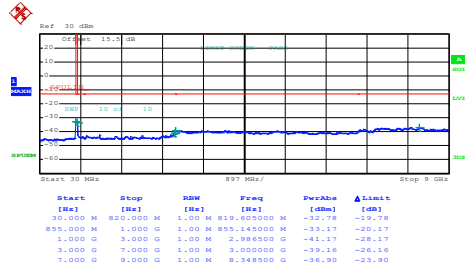
Date: 13.MAR.2025 10:50:52

## Conducted Spurious Emission

| WCDMA Band V (RMC 12.2Kbps)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | WCDMA Band II (RMC 12.2Kbps) |
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| Lowest Channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Lowest Channel               |
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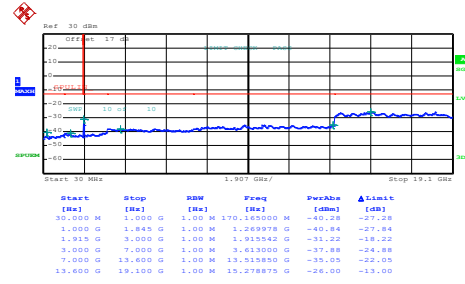


Highest Channel



Date: 13.MAR.2025 11:26:17

Highest Channel

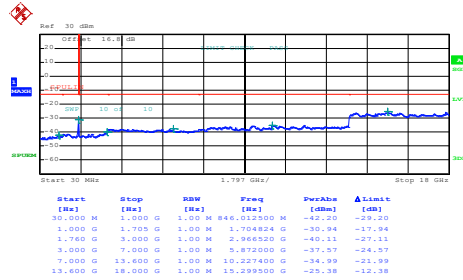


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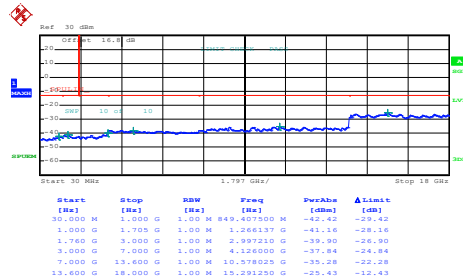
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



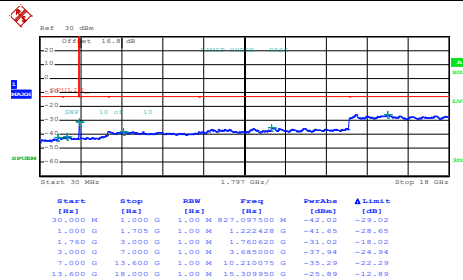
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Middle Channel



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Highest Channel



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## Frequency Stability

| Test Conditions  | Middle Channel  | WCDMA Band V<br>(RMC 12.2Kbps) | Limit  |
|------------------|-----------------|--------------------------------|--------|
| Temperature (°C) | Voltage (Volt)  | Deviation (ppm)                | 2.5ppm |
| 50               | Normal Voltage  | 0.0048                         | PASS   |
| 40               | Normal Voltage  | 0.0108                         |        |
| 30               | Normal Voltage  | 0.0072                         |        |
| 20(Ref.)         | Normal Voltage  | 0.0000                         |        |
| 10               | Normal Voltage  | 0.0060                         |        |
| 0                | Normal Voltage  | 0.0024                         |        |
| -10              | Normal Voltage  | 0.0036                         |        |
| -20              | Normal Voltage  | 0.0096                         |        |
| -30              | Normal Voltage  | 0.0012                         |        |
| 20               | Maximum Voltage | 0.0012                         |        |
| 20               | Normal Voltage  | 0.0072                         |        |
| 20               | Minimum Voltage | 0.0084                         |        |

| Test Conditions  | Middle Channel  | WCDMA Band II<br>(RMC 12.2Kbps) | Limit   |
|------------------|-----------------|---------------------------------|---------|
| Temperature (°C) | Voltage (Volt)  | Deviation (ppm)                 | Note 2. |
| 50               | Normal Voltage  | 0.0074                          | PASS    |
| 40               | Normal Voltage  | 0.0064                          |         |
| 30               | Normal Voltage  | 0.0053                          |         |
| 20(Ref.)         | Normal Voltage  | 0.0000                          |         |
| 10               | Normal Voltage  | 0.0016                          |         |
| 0                | Normal Voltage  | 0.0027                          |         |
| -10              | Normal Voltage  | 0.0021                          |         |
| -20              | Normal Voltage  | 0.0117                          |         |
| -30              | Normal Voltage  | 0.0043                          |         |
| 20               | Maximum Voltage | 0.0059                          |         |
| 20               | Normal Voltage  | 0.0011                          |         |
| 20               | Minimum Voltage | 0.0005                          |         |

| Test Conditions  | Middle Channel  | WCDMA Band IV<br>(RMC 12.2Kbps) | Limit             |
|------------------|-----------------|---------------------------------|-------------------|
| Temperature (°C) | Voltage (Volt)  | Deviation (ppm)                 | Note 2.<br>Result |
| 50               | Normal Voltage  | 0.0190                          | PASS              |
| 40               | Normal Voltage  | 0.0167                          |                   |
| 30               | Normal Voltage  | 0.0115                          |                   |
| 20(Ref.)         | Normal Voltage  | 0.0000                          |                   |
| 10               | Normal Voltage  | 0.0052                          |                   |
| 0                | Normal Voltage  | 0.0098                          |                   |
| -10              | Normal Voltage  | 0.0115                          |                   |
| -20              | Normal Voltage  | 0.0312                          |                   |
| -30              | Normal Voltage  | 0.0040                          |                   |
| 20               | Maximum Voltage | 0.0029                          |                   |
| 20               | Normal Voltage  | 0.0012                          |                   |
| 20               | Minimum Voltage | 0.0017                          |                   |

**Note:**

1. Normal Voltage = 3.85V. ; Minimum Voltage = 3.3 V. ; Maximum Voltage =4.4 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



## **Appendix B. Test Results of Radiated Test**

### **B1. Summary of each worse mode**

| Mode | Part     | Band     | Ch | Freq (MHz) | Level (dBm) | Det | Ant Factor (dB) | AmplCbl (dB) | Filter (dB) | EIRPCF (dB) | Reading (dBuV) | Limit (dBm) | Margin (dB) | Pol | Ant |
|------|----------|----------|----|------------|-------------|-----|-----------------|--------------|-------------|-------------|----------------|-------------|-------------|-----|-----|
| 1    | Part 22H | WCDMA B5 | L  | 3305       | -60.47      | RMS | 29.51           | -26.12       | 0.43        | -95.23      | 30.94          | -13.00      | -47.47      | V   | 0   |
| 2    | Part 24E | WCDMA B2 | H  | 7630       | -56.17      | RMS | 36.16           | -23.06       | 0.35        | -95.23      | 25.61          | -13.00      | -43.17      | H   | 0   |
| 3    | Part 27L | WCDMA B4 | L  | 6850       | -56.24      | RMS | 35.80           | -23.31       | 0.65        | -95.23      | 25.85          | -13.00      | -43.24      | V   | 0   |

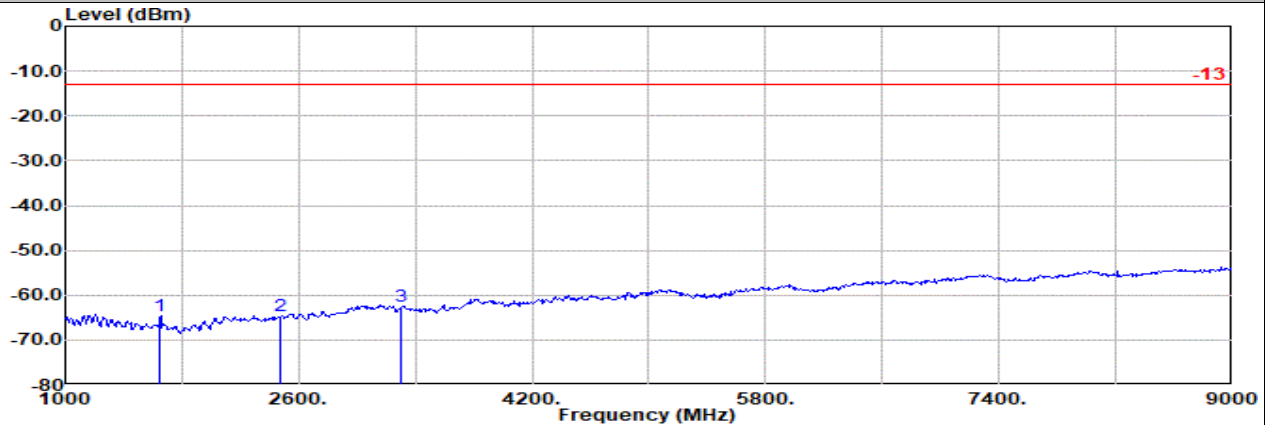


Tx0\_Ant 0

Part 22H Mode 2

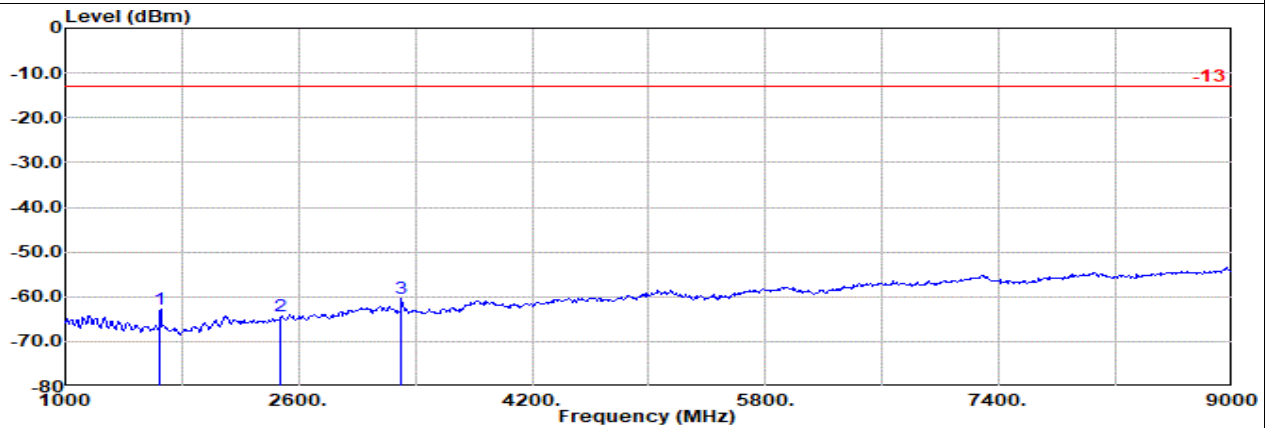
WCDMA B5 Ch4132

L



Site : 03CH20-HY  
Condition: -13 3m HF\_9120D\_02360\_241101 Horizontal  
: WCDMA Band V Ch4132

|   | Freq    | Level  | Detector | Ant Amp\Cb |        | Filter | EIRPCF |       | Readin | Limit  | Margin     |  | Pol |
|---|---------|--------|----------|------------|--------|--------|--------|-------|--------|--------|------------|--|-----|
|   |         |        |          | Factor     | 1      |        |        |       |        |        |            |  |     |
|   | MHz     | dBm    |          |            | dB/m   | dB     | dB     | dB    | dBuV   | dBm    | dB         |  |     |
| 1 | 1652.00 | -64.47 | RMS      | 25.22      | -28.76 | 0.48   | -95.23 | 33.82 | -13.00 | -51.47 | Horizontal |  |     |
| 2 | 2479.00 | -64.48 | RMS      | 27.89      | -27.51 | 0.41   | -95.23 | 29.96 | -13.00 | -51.48 | Horizontal |  |     |
| 3 | 3305.00 | -62.60 | RMS      | 29.51      | -26.12 | 0.43   | -95.23 | 28.81 | -13.00 | -49.60 | Horizontal |  |     |



Site : 03CH20-HY  
Condition: -13 3m HF\_9120D\_02360\_241101 Vertical  
: WCDMA Band V Ch4132

|   | Freq    | Level  | Detector | Ant Amp\Cb |        | Filter | EIRPCF |       | Readin | Limit  | Margin   |  | Pol |
|---|---------|--------|----------|------------|--------|--------|--------|-------|--------|--------|----------|--|-----|
|   |         |        |          | Factor     | 1      |        |        |       |        |        |          |  |     |
|   | MHz     | dBm    |          |            | dB/m   | dB     | dB     | dB    | dBuV   | dBm    | dB       |  |     |
| 1 | 1652.00 | -62.80 | RMS      | 25.22      | -28.76 | 0.48   | -95.23 | 35.49 | -13.00 | -49.80 | Vertical |  |     |
| 2 | 2479.00 | -64.29 | RMS      | 27.89      | -27.51 | 0.41   | -95.23 | 30.15 | -13.00 | -51.29 | Vertical |  |     |
| 3 | 3305.00 | -60.47 | RMS      | 29.51      | -26.12 | 0.43   | -95.23 | 30.94 | -13.00 | -47.47 | Vertical |  |     |

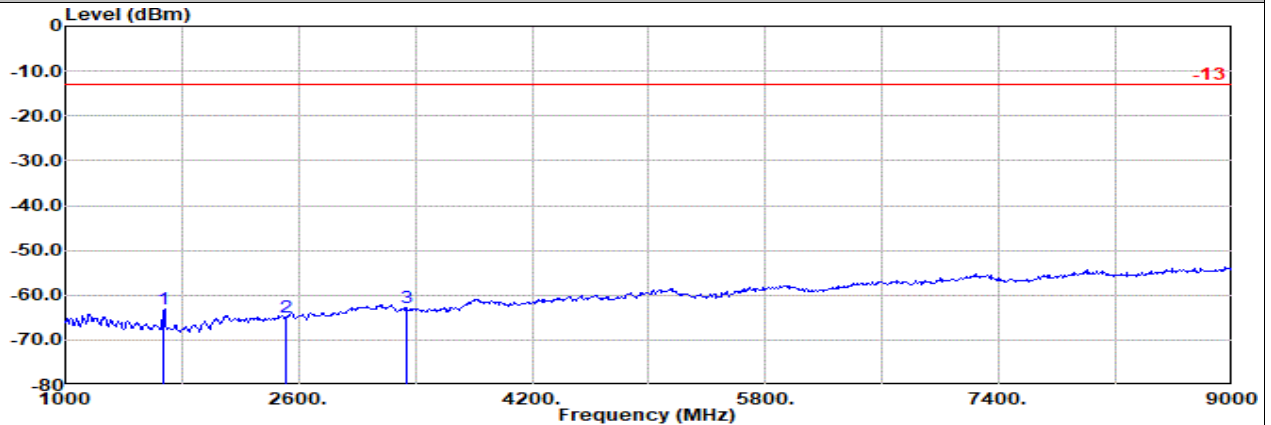


Tx0\_Ant 0

Part 22H Mode 2

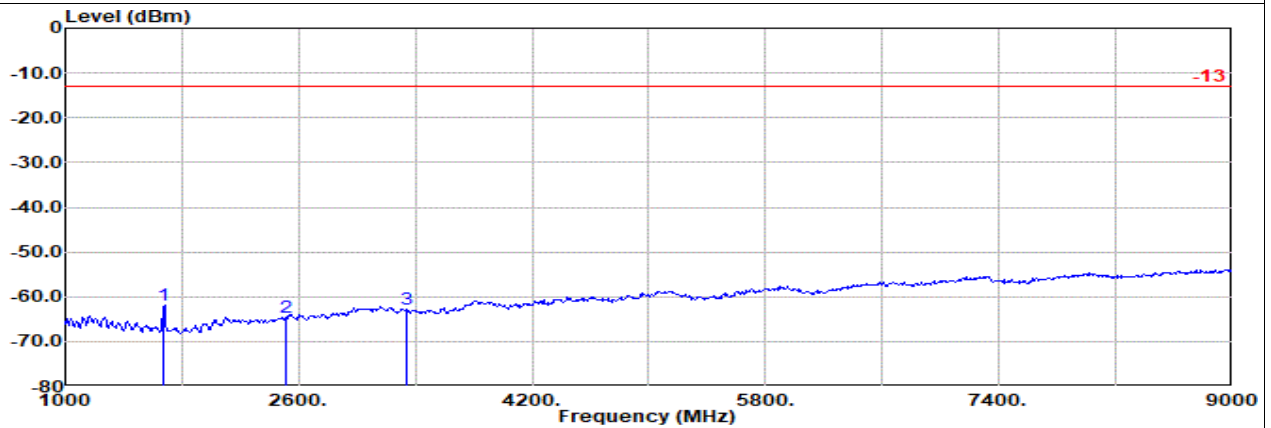
WCDMA B5 Ch4182

M



Site : 03CH20-HY  
Condition: -13 3m HF\_9120D\_02360\_241101 Horizontal  
: WCDMA Band V Ch4182

|   | Freq    | Level  | Detector | Ant Amp\Cb Filter |        | EIRPCF | Readin | Limit | Margin Pol |                   |
|---|---------|--------|----------|-------------------|--------|--------|--------|-------|------------|-------------------|
|   |         |        |          | Factor            | 1      |        |        |       |            |                   |
|   | MHz     | dBm    |          | dB/m              | dB     | dB     | dB     | dBuV  | dBm        | dB                |
| 1 | 1672.00 | -63.12 | RMS      | 25.40             | -28.74 | 0.46   | -95.23 | 34.99 | -13.00     | -50.12 Horizontal |
| 2 | 2509.00 | -64.86 | RMS      | 28.09             | -27.45 | 0.40   | -95.23 | 29.33 | -13.00     | -51.86 Horizontal |
| 3 | 3345.00 | -62.83 | RMS      | 29.59             | -26.09 | 0.42   | -95.23 | 28.48 | -13.00     | -49.83 Horizontal |



Site : 03CH20-HY  
Condition: -13 3m HF\_9120D\_02360\_241101 Vertical  
: WCDMA Band V Ch4182

|   | Freq    | Level  | Detector | Ant Amp\Cb Filter |        | EIRPCF | Readin | Limit | Margin Pol |                 |
|---|---------|--------|----------|-------------------|--------|--------|--------|-------|------------|-----------------|
|   |         |        |          | Factor            | 1      |        |        |       |            |                 |
|   | MHz     | dBm    |          | dB/m              | dB     | dB     | dB     | dBuV  | dBm        | dB              |
| 1 | 1672.00 | -61.75 | RMS      | 25.40             | -28.74 | 0.46   | -95.23 | 36.36 | -13.00     | -48.75 Vertical |
| 2 | 2509.00 | -64.59 | RMS      | 28.09             | -27.45 | 0.40   | -95.23 | 29.60 | -13.00     | -51.59 Vertical |
| 3 | 3345.00 | -62.87 | RMS      | 29.59             | -26.09 | 0.42   | -95.23 | 28.44 | -13.00     | -49.87 Vertical |

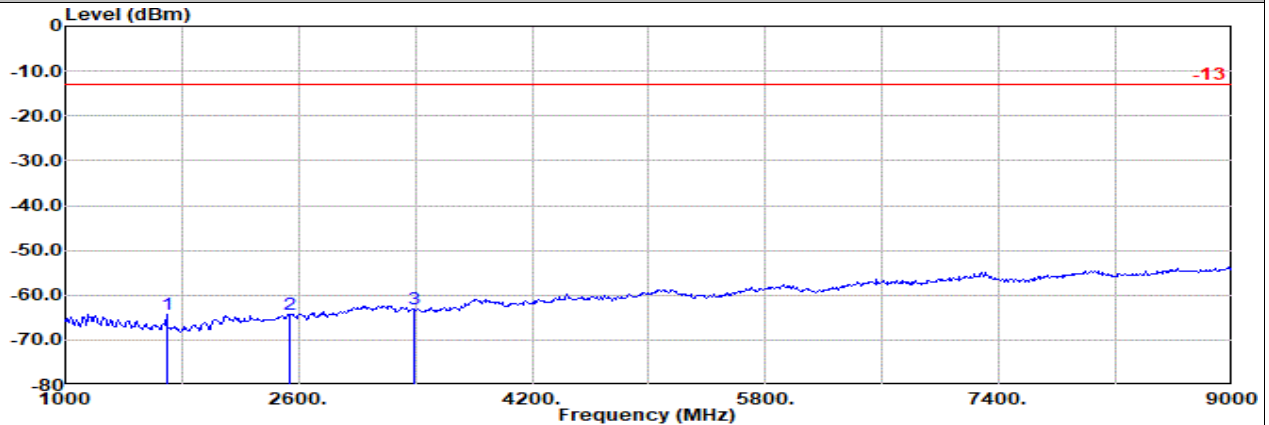


Tx0\_Ant 0

Part 22H Mode 2

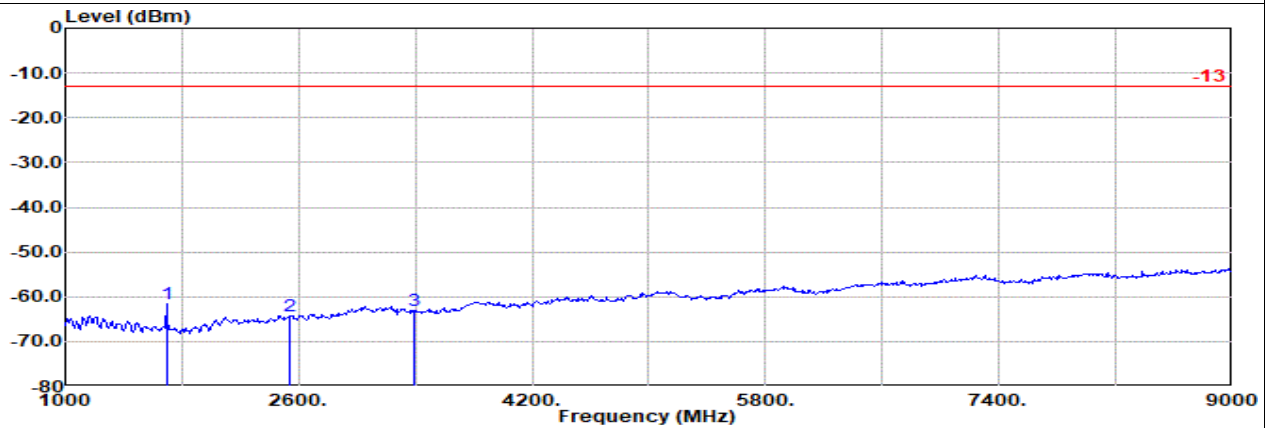
WCDMA B5 Ch4233

H



Site : 03CH20-HY  
Condition: -13 3m HF\_9120D\_02360\_241101 Horizontal  
: WCDMA Band V Ch4233

|   | Freq    | Level  | Detector | Ant Amp\Cb Filter |        | EIRPCF | Readin | Limit | Margin Pol |                   |
|---|---------|--------|----------|-------------------|--------|--------|--------|-------|------------|-------------------|
|   |         |        |          | Factor            | 1      |        | g      |       |            |                   |
|   | MHz     | dBm    |          | dB/m              | dB     | dB     | dB     | dBuV  | dBm        | dB                |
| 1 | 1693.00 | -64.16 | RMS      | 25.30             | -28.71 | 0.44   | -95.23 | 34.04 | -13.00     | -51.16 Horizontal |
| 2 | 2539.00 | -64.27 | RMS      | 28.19             | -27.38 | 0.40   | -95.23 | 29.75 | -13.00     | -51.27 Horizontal |
| 3 | 3386.00 | -63.00 | RMS      | 29.67             | -26.05 | 0.41   | -95.23 | 28.20 | -13.00     | -50.00 Horizontal |



Site : 03CH20-HY  
Condition: -13 3m HF\_9120D\_02360\_241101 Vertical  
: WCDMA Band V Ch4233

|   | Freq    | Level  | Detector | Ant Amp\Cb Filter |        | EIRPCF | Readin | Limit | Margin Pol |                 |
|---|---------|--------|----------|-------------------|--------|--------|--------|-------|------------|-----------------|
|   |         |        |          | Factor            | 1      |        | g      |       |            |                 |
|   | MHz     | dBm    |          | dB/m              | dB     | dB     | dB     | dBuV  | dBm        | dB              |
| 1 | 1693.00 | -61.59 | RMS      | 25.30             | -28.71 | 0.44   | -95.23 | 36.61 | -13.00     | -48.59 Vertical |
| 2 | 2539.00 | -64.18 | RMS      | 28.19             | -27.38 | 0.40   | -95.23 | 29.84 | -13.00     | -51.18 Vertical |
| 3 | 3386.00 | -62.99 | RMS      | 29.67             | -26.05 | 0.41   | -95.23 | 28.21 | -13.00     | -49.99 Vertical |

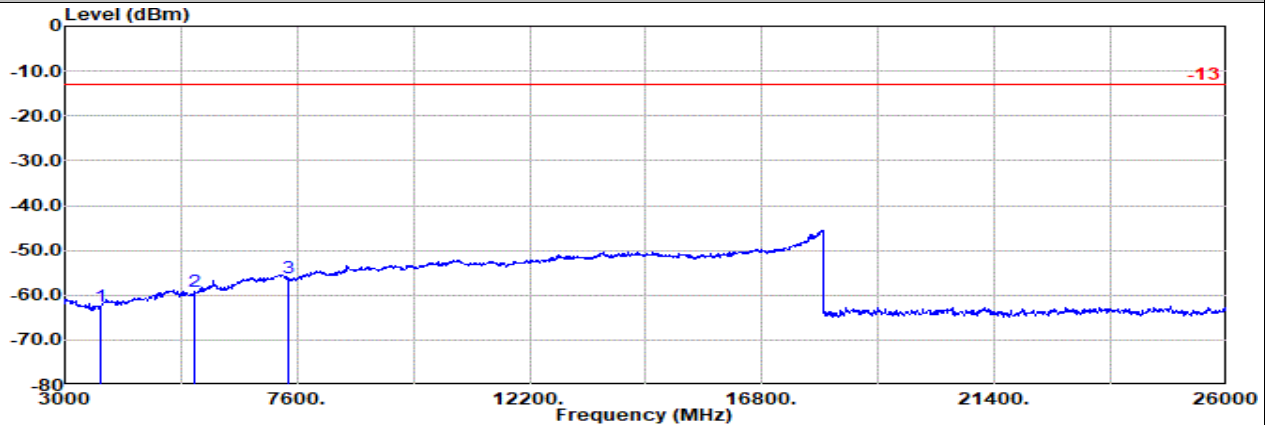


Tx0\_Ant 0

Part 24E Mode 2

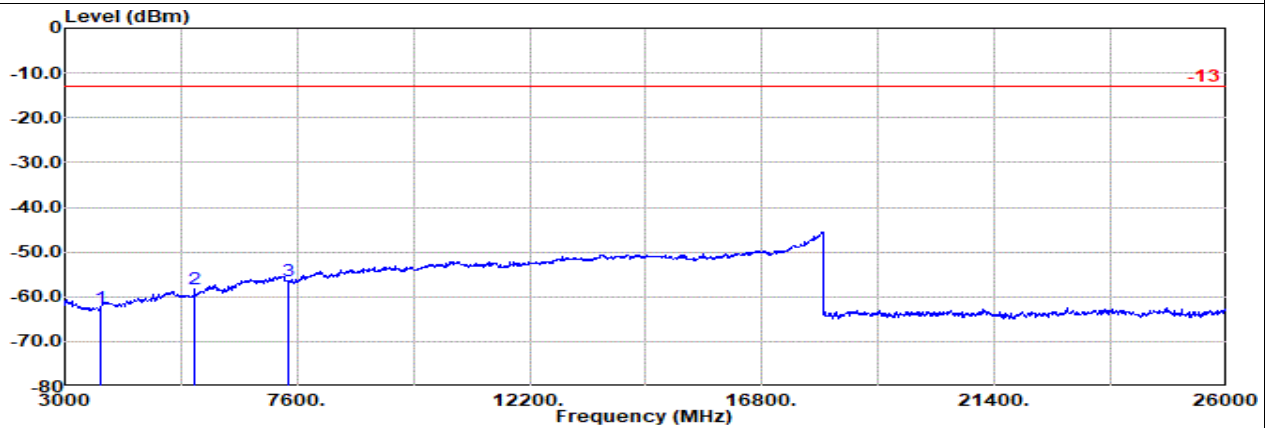
WCDMA B2 Ch9262

L



Site : 03CH20-HY  
Condition: -13 1m BBHA9170\_1223\_240624 Horizontal  
Mode : WCDMA Band II Ch9262

|   | Freq    | Level  | Detector | Ant Amp\Cb Filter |        | EIRPCF | Readin | Limit | Margin Pol |                   |
|---|---------|--------|----------|-------------------|--------|--------|--------|-------|------------|-------------------|
|   |         |        |          | Factor            | 1      |        | g      |       |            |                   |
|   | MHz     | dBm    |          | dB/m              | dB     | dB     | dB     | dBuV  | dBm        | dB                |
| 1 | 3704.00 | -62.41 | RMS      | 29.74             | -25.62 | 0.75   | -95.23 | 27.95 | -13.00     | -49.41 Horizontal |
| 2 | 5557.00 | -59.22 | RMS      | 32.91             | -24.62 | 0.49   | -95.23 | 27.23 | -13.00     | -46.22 Horizontal |
| 3 | 7409.00 | -56.29 | RMS      | 36.28             | -23.07 | 0.33   | -95.23 | 25.40 | -13.00     | -43.29 Horizontal |



Site : 03CH20-HY  
Condition: -13 1m BBHA9170\_1223\_240624 Vertical  
Mode : WCDMA Band II Ch9262

|   | Freq    | Level  | Detector | Ant Amp\Cb Filter |        | EIRPCF | Readin | Limit | Margin Pol |                 |
|---|---------|--------|----------|-------------------|--------|--------|--------|-------|------------|-----------------|
|   |         |        |          | Factor            | 1      |        | g      |       |            |                 |
|   | MHz     | dBm    |          | dB/m              | dB     | dB     | dB     | dBuV  | dBm        | dB              |
| 1 | 3704.00 | -62.46 | RMS      | 29.74             | -25.62 | 0.75   | -95.23 | 27.90 | -13.00     | -49.46 Vertical |
| 2 | 5557.00 | -58.20 | RMS      | 32.91             | -24.62 | 0.49   | -95.23 | 28.25 | -13.00     | -45.20 Vertical |
| 3 | 7409.00 | -56.44 | RMS      | 36.28             | -23.07 | 0.33   | -95.23 | 25.25 | -13.00     | -43.44 Vertical |

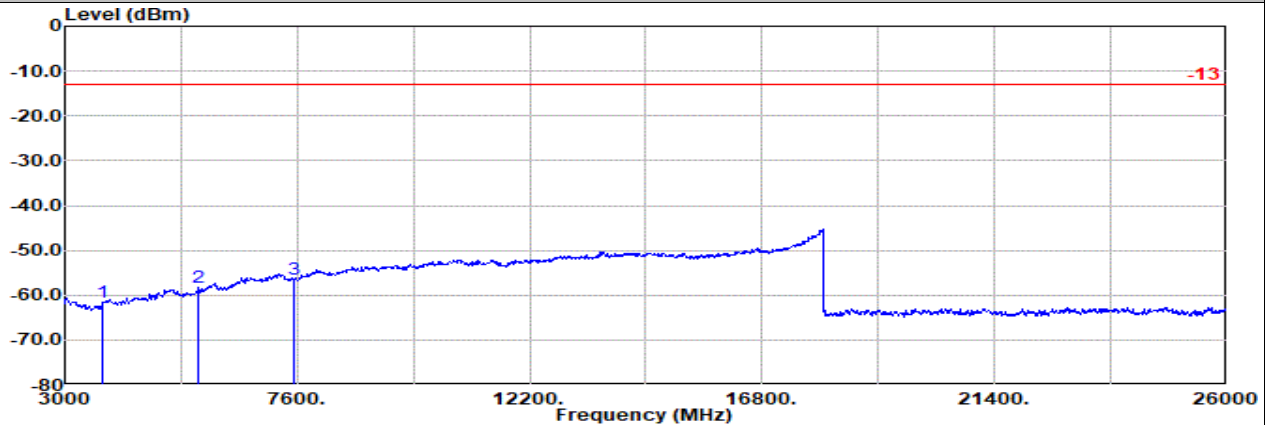


Tx0\_Ant 0

Part 24E Mode 2

WCDMA B2 Ch9400

M

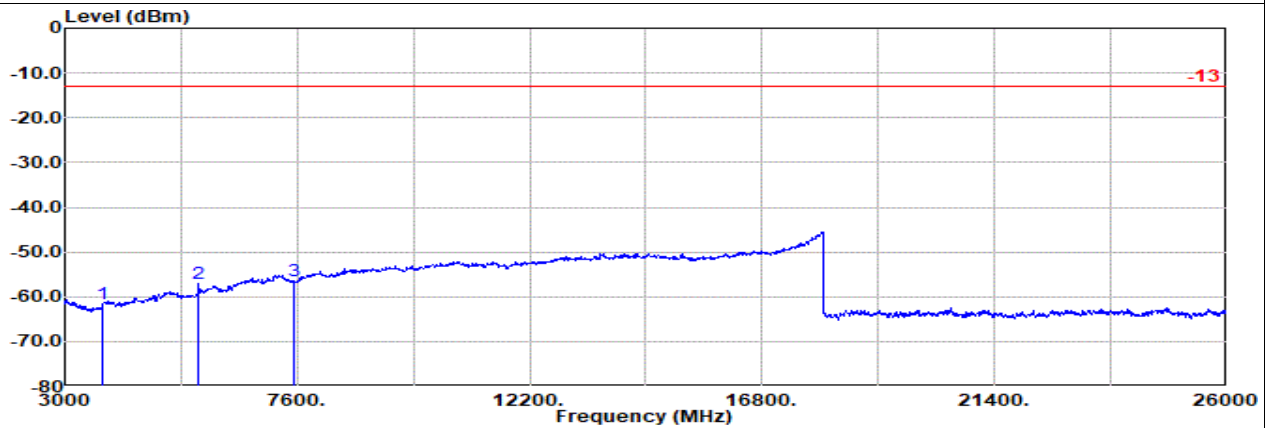


Site : 03CH20-HY

Condition: -13 1m BBHA9170\_1223\_240624 Horizontal

Mode : WCDMA Band II Ch9400

|   | Freq    | Level  | Detector | Ant Amp\Cb Filter |        | EIRPCF | Readin | Limit | Margin Pol |                   |
|---|---------|--------|----------|-------------------|--------|--------|--------|-------|------------|-------------------|
|   |         |        |          | Factor            | 1      |        |        |       |            |                   |
|   | MHz     | dBm    |          | dB/m              | dB     | dB     | dB     | dBuV  | dBm        | dB                |
| 1 | 3760.00 | -61.54 | RMS      | 30.32             | -25.60 | 0.70   | -95.23 | 28.27 | -13.00     | -48.54 Horizontal |
| 2 | 5640.00 | -58.39 | RMS      | 33.16             | -24.52 | 0.50   | -95.23 | 27.70 | -13.00     | -45.39 Horizontal |
| 3 | 7520.00 | -56.45 | RMS      | 36.36             | -23.06 | 0.33   | -95.23 | 25.15 | -13.00     | -43.45 Horizontal |



Site : 03CH20-HY

Condition: -13 1m BBHA9170\_1223\_240624 Vertical

Mode : WCDMA Band II Ch9400

|   | Freq    | Level  | Detector | Ant Amp\Cb Filter |        | EIRPCF | Readin | Limit | Margin Pol |                 |
|---|---------|--------|----------|-------------------|--------|--------|--------|-------|------------|-----------------|
|   |         |        |          | Factor            | 1      |        |        |       |            |                 |
|   | MHz     | dBm    |          | dB/m              | dB     | dB     | dB     | dBuV  | dBm        | dB              |
| 1 | 3760.00 | -61.51 | RMS      | 30.32             | -25.60 | 0.70   | -95.23 | 28.30 | -13.00     | -48.51 Vertical |
| 2 | 5640.00 | -57.06 | RMS      | 33.16             | -24.52 | 0.50   | -95.23 | 29.03 | -13.00     | -44.06 Vertical |
| 3 | 7520.00 | -56.33 | RMS      | 36.36             | -23.06 | 0.33   | -95.23 | 25.27 | -13.00     | -43.33 Vertical |

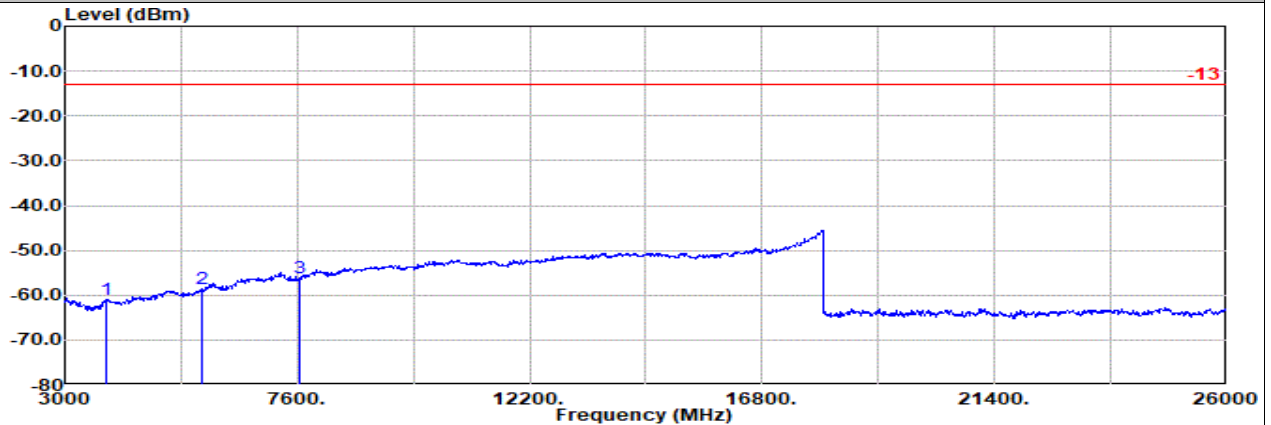


Tx0\_Ant 0

Part 24E Mode 2

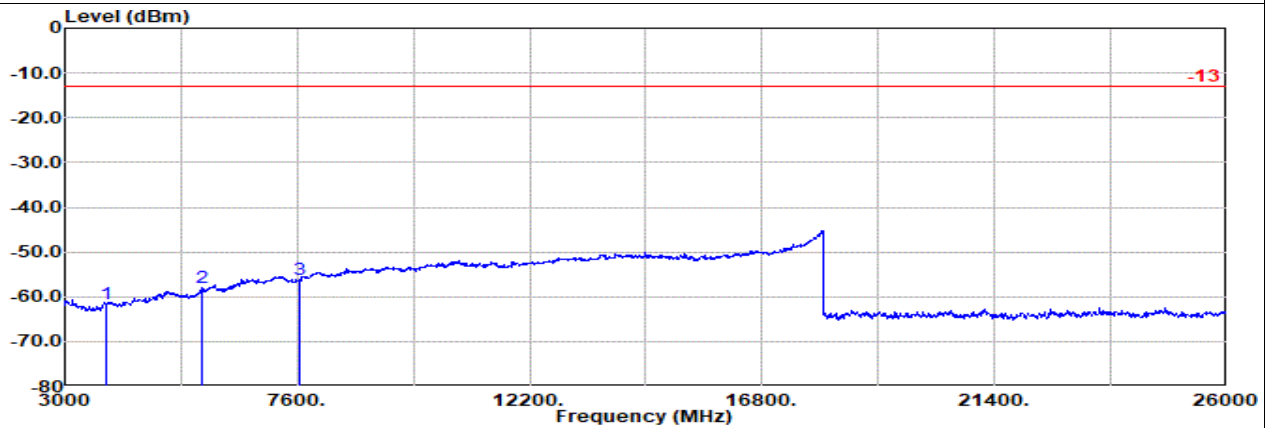
WCDMA B2 Ch9538

H



Site : 03CH20-HY  
Condition: -13 1m BBHA9170\_1223\_240624 Horizontal  
Mode : WCDMA Band II Ch9538

|   | Freq    | Level  | Detector | Ant Amp\Cb Filter |        | EIRPCF | Readin | Limit | Margin Pol |                   |
|---|---------|--------|----------|-------------------|--------|--------|--------|-------|------------|-------------------|
|   |         |        |          | Factor            | 1      |        | g      |       |            |                   |
|   | MHz     | dBm    |          | dB/m              | dB     | dB     | dB     | dBuV  | dBm        | dB                |
| 1 | 3815.00 | -61.10 | RMS      | 30.80             | -25.60 | 0.66   | -95.23 | 28.27 | -13.00     | -48.10 Horizontal |
| 2 | 5722.00 | -58.68 | RMS      | 33.64             | -24.41 | 0.51   | -95.23 | 26.81 | -13.00     | -45.68 Horizontal |
| 3 | 7630.00 | -56.17 | RMS      | 36.16             | -23.06 | 0.35   | -95.23 | 25.61 | -13.00     | -43.17 Horizontal |



Site : 03CH20-HY  
Condition: -13 1m BBHA9170\_1223\_240624 Vertical  
Mode : WCDMA Band II Ch9538

|   | Freq    | Level  | Detector | Ant Amp\Cb Filter |        | EIRPCF | Readin | Limit | Margin Pol |                 |
|---|---------|--------|----------|-------------------|--------|--------|--------|-------|------------|-----------------|
|   |         |        |          | Factor            | 1      |        | g      |       |            |                 |
|   | MHz     | dBm    |          | dB/m              | dB     | dB     | dB     | dBuV  | dBm        | dB              |
| 1 | 3815.00 | -61.49 | RMS      | 30.80             | -25.60 | 0.66   | -95.23 | 27.88 | -13.00     | -48.49 Vertical |
| 2 | 5722.00 | -57.92 | RMS      | 33.64             | -24.41 | 0.51   | -95.23 | 27.57 | -13.00     | -44.92 Vertical |
| 3 | 7630.00 | -56.25 | RMS      | 36.16             | -23.06 | 0.35   | -95.23 | 25.53 | -13.00     | -43.25 Vertical |

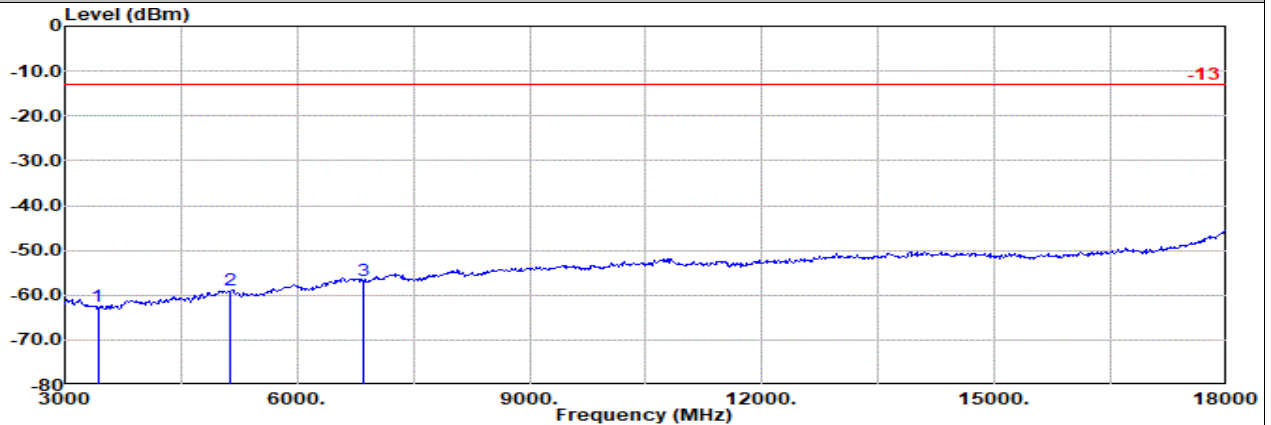


Tx0\_Ant 0

Part 27L Mode 2

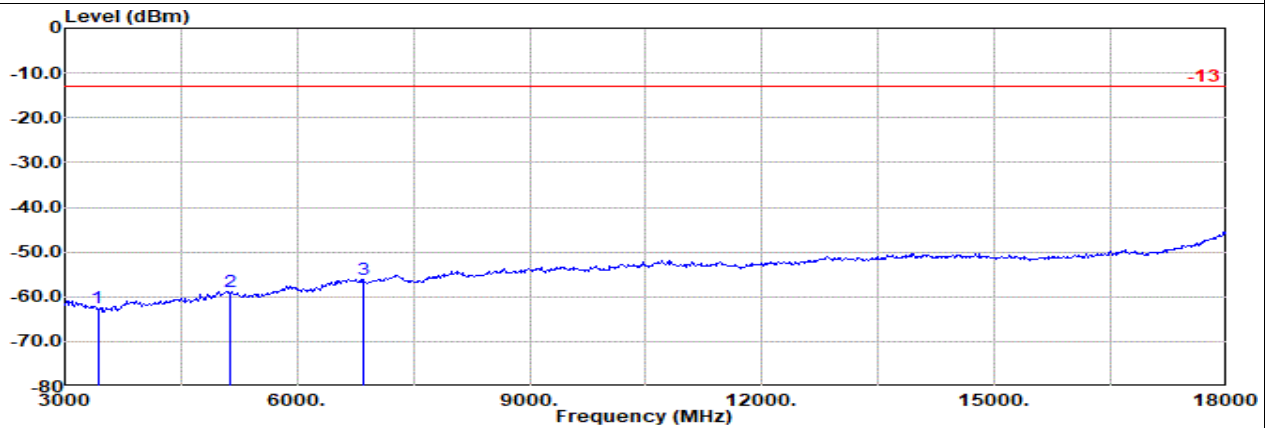
WCDMA B4 Ch1312

L



Site : 03CH20-HY  
Condition: -13 3m HF\_9120D\_02360\_241101 Horizontal  
: WCADMA Band IV Ch1312

|   | Freq    | Level  | Detector | Ant Amp\Cb Filter |        | EIRPCF | Readin | Limit | Margin Pol |                   |
|---|---------|--------|----------|-------------------|--------|--------|--------|-------|------------|-------------------|
|   |         |        |          | Factor            | 1      |        |        |       |            |                   |
|   | MHz     | dBm    |          | dB/m              | dB     | dB     | dB     | dBuV  | dBm        | dB                |
| 1 | 3425.00 | -62.60 | RMS      | 29.60             | -26.00 | 1.11   | -95.23 | 27.92 | -13.00     | -49.60 Horizontal |
| 2 | 5137.00 | -59.01 | RMS      | 33.27             | -24.95 | 0.46   | -95.23 | 27.44 | -13.00     | -46.01 Horizontal |
| 3 | 6850.00 | -56.66 | RMS      | 35.80             | -23.31 | 0.65   | -95.23 | 25.43 | -13.00     | -43.66 Horizontal |



Site : 03CH20-HY  
Condition: -13 3m HF\_9120D\_02360\_241101 Vertical  
: WCADMA Band IV Ch1312

|   | Freq    | Level  | Detector | Ant Amp\Cb Filter |        | EIRPCF | Readin | Limit | Margin Pol |                 |
|---|---------|--------|----------|-------------------|--------|--------|--------|-------|------------|-----------------|
|   |         |        |          | Factor            | 1      |        |        |       |            |                 |
|   | MHz     | dBm    |          | dB/m              | dB     | dB     | dB     | dBuV  | dBm        | dB              |
| 1 | 3425.00 | -62.50 | RMS      | 29.60             | -26.00 | 1.11   | -95.23 | 28.02 | -13.00     | -49.50 Vertical |
| 2 | 5137.00 | -58.87 | RMS      | 33.27             | -24.95 | 0.46   | -95.23 | 27.58 | -13.00     | -45.87 Vertical |
| 3 | 6850.00 | -56.24 | RMS      | 35.80             | -23.31 | 0.65   | -95.23 | 25.85 | -13.00     | -43.24 Vertical |

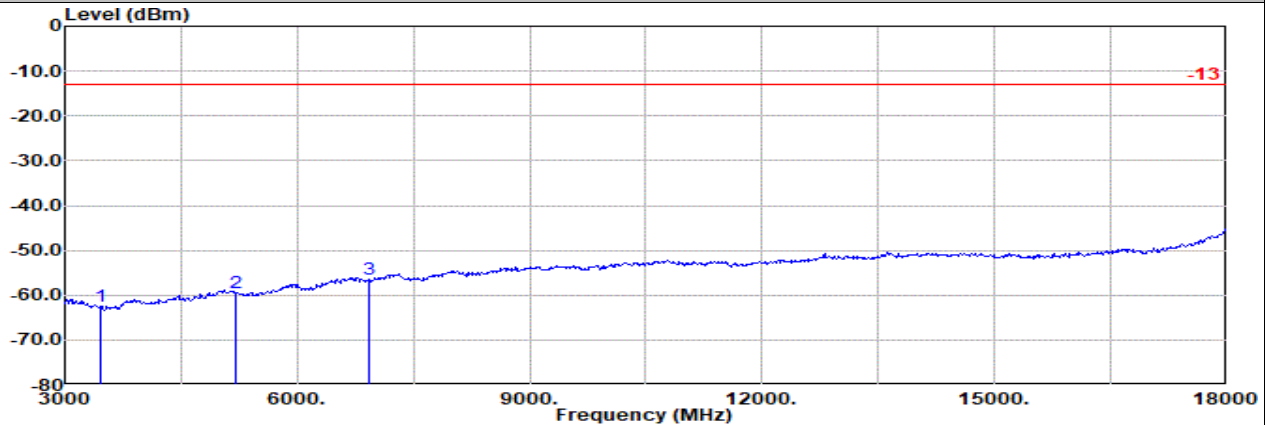


Tx0\_Ant 0

Part 27L Mode 2

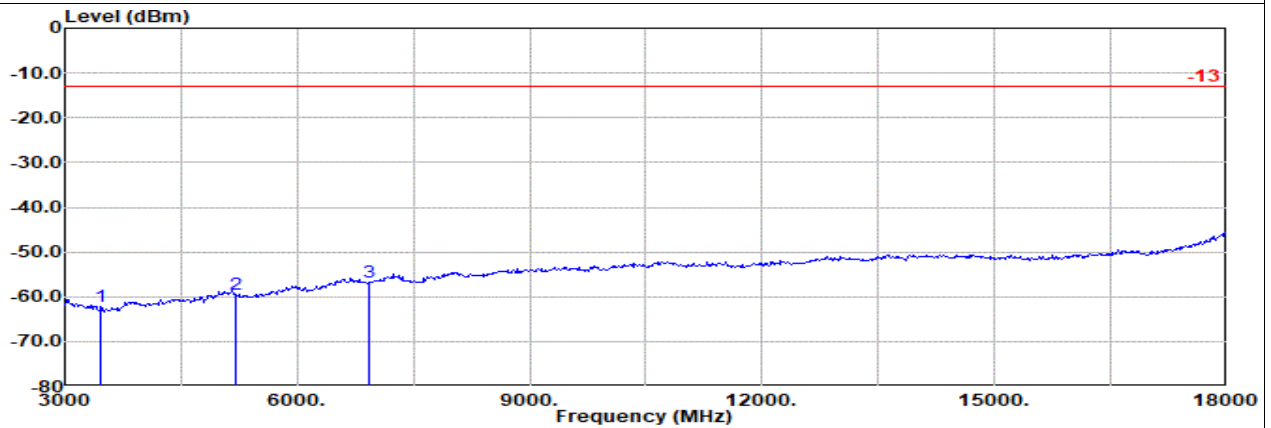
WCDMA B4 Ch1413

M



Site : 03CH20-HY  
Condition: -13 3m HF\_9120D\_02360\_241101 Horizontal  
: WCDMA Band IV Ch1413

|   | Freq    | Level  | Detector | Ant Amp\Cb Filter |        | EIRPCF | Readin | Limit | Margin Pol |                   |
|---|---------|--------|----------|-------------------|--------|--------|--------|-------|------------|-------------------|
|   |         |        |          | Factor            | 1      |        |        |       |            |                   |
|   | MHz     | dBm    |          |                   |        |        |        |       |            |                   |
| 1 | 3465.00 | -62.46 | RMS      | 29.47             | -25.94 | 1.05   | -95.23 | 28.19 | -13.00     | -49.46 Horizontal |
| 2 | 5198.00 | -59.50 | RMS      | 32.82             | -24.90 | 0.48   | -95.23 | 27.33 | -13.00     | -46.50 Horizontal |
| 3 | 6930.00 | -56.38 | RMS      | 35.80             | -23.26 | 0.59   | -95.23 | 25.72 | -13.00     | -43.38 Horizontal |



Site : 03CH20-HY  
Condition: -13 3m HF\_9120D\_02360\_241101 Vertical  
: WCDMA Band IV Ch1413

|   | Freq    | Level  | Detector | Ant Amp\Cb Filter |        | EIRPCF | Readin | Limit | Margin Pol |                 |
|---|---------|--------|----------|-------------------|--------|--------|--------|-------|------------|-----------------|
|   |         |        |          | Factor            | 1      |        |        |       |            |                 |
|   | MHz     | dBm    |          |                   |        |        |        |       |            |                 |
| 1 | 3465.00 | -62.30 | RMS      | 29.47             | -25.94 | 1.05   | -95.23 | 28.35 | -13.00     | -49.30 Vertical |
| 2 | 5198.00 | -59.50 | RMS      | 32.82             | -24.90 | 0.48   | -95.23 | 27.33 | -13.00     | -46.50 Vertical |
| 3 | 6930.00 | -56.61 | RMS      | 35.80             | -23.26 | 0.59   | -95.23 | 25.49 | -13.00     | -43.61 Vertical |

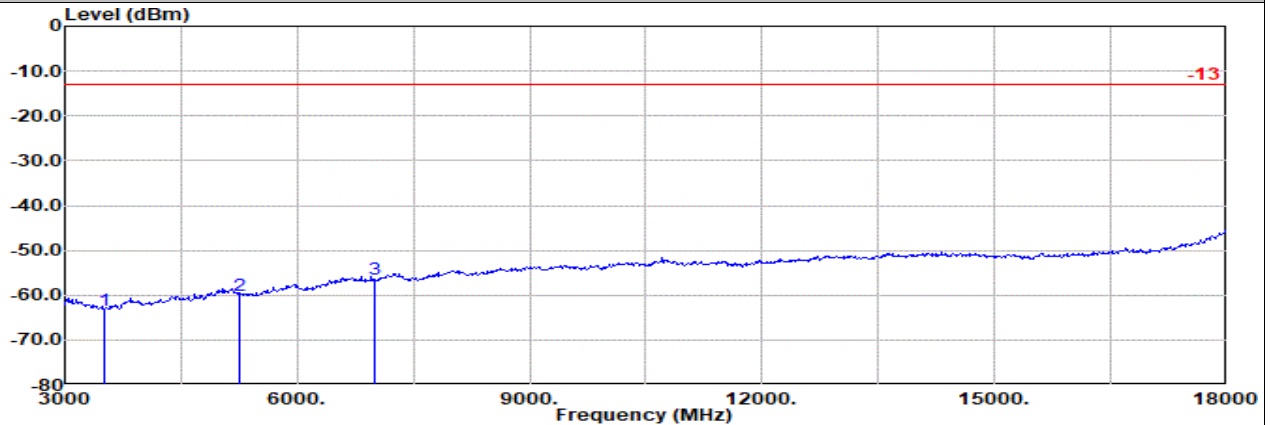


Tx0\_Ant 0

Part 27L Mode 2

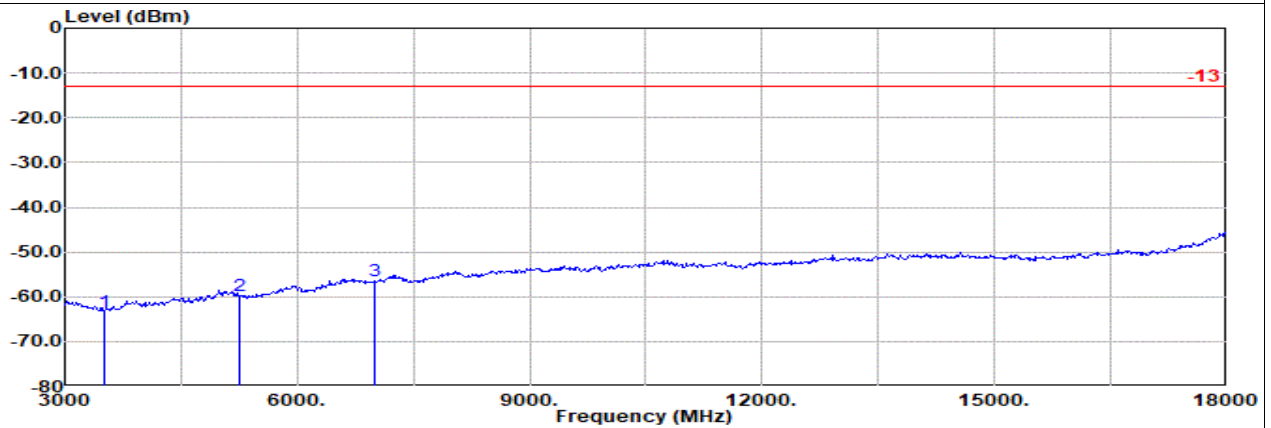
WCDMA B4 Ch1513

H



Site : 03CH20-HY  
Condition: -13 3m HF\_9120D\_02360\_241101 Horizontal  
: WCDMA Band IV Ch1513

|   | Freq    | Level  | Detector | Ant Amp\Cb Filter |        | EIRPCF | Readin | Limit | Margin Pol |                   |
|---|---------|--------|----------|-------------------|--------|--------|--------|-------|------------|-------------------|
|   |         |        |          | Factor            | 1      |        |        |       |            |                   |
|   | MHz     | dBm    |          | dB/m              | dB     | dB     | dB     | dBuV  | dBm        | dB                |
| 1 | 3505.00 | -63.31 | RMS      | 29.42             | -25.88 | 0.99   | -95.23 | 27.39 | -13.00     | -50.31 Horizontal |
| 2 | 5258.00 | -60.16 | RMS      | 32.88             | -24.85 | 0.47   | -95.23 | 26.57 | -13.00     | -47.16 Horizontal |
| 3 | 7010.00 | -56.37 | RMS      | 36.04             | -23.22 | 0.53   | -95.23 | 25.51 | -13.00     | -43.37 Horizontal |



Site : 03CH20-HY  
Condition: -13 3m HF\_9120D\_02360\_241101 Vertical  
: WCDMA Band IV Ch1513

|   | Freq    | Level  | Detector | Ant Amp\Cb Filter |        | EIRPCF | Readin | Limit | Margin Pol |                 |
|---|---------|--------|----------|-------------------|--------|--------|--------|-------|------------|-----------------|
|   |         |        |          | Factor            | 1      |        |        |       |            |                 |
|   | MHz     | dBm    |          | dB/m              | dB     | dB     | dB     | dBuV  | dBm        | dB              |
| 1 | 3505.00 | -63.26 | RMS      | 29.42             | -25.88 | 0.99   | -95.23 | 27.44 | -13.00     | -50.26 Vertical |
| 2 | 5258.00 | -59.76 | RMS      | 32.88             | -24.85 | 0.47   | -95.23 | 26.97 | -13.00     | -46.76 Vertical |
| 3 | 7010.00 | -56.32 | RMS      | 36.04             | -23.22 | 0.53   | -95.23 | 25.56 | -13.00     | -43.32 Vertical |

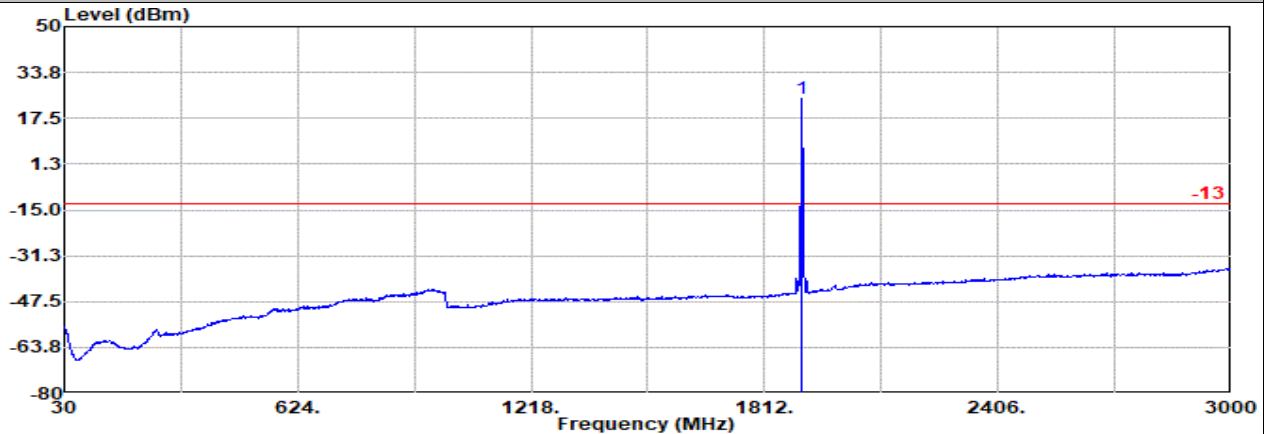


Tx0\_Ant 0

Part 24E Mode 2

WCDMA B2 Ch9538

H



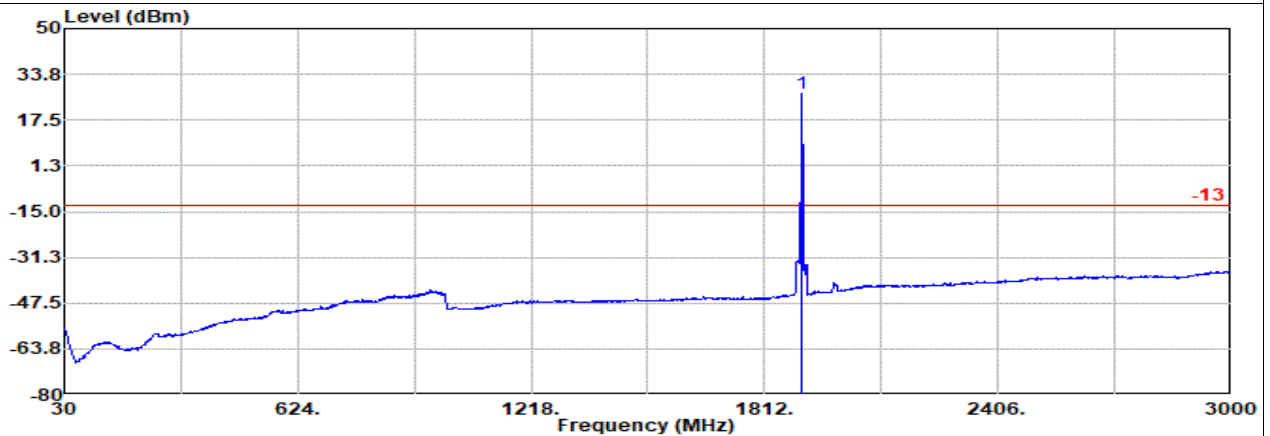
Site : 03CH20-HY

Condition: -13 3m HF\_9120D\_02360\_241101 Horizontal

: WCDMA Band II Ch9538

: #1 is fundamental signal which can be ignored.

| 1 | Freq    | Level | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol        |
|---|---------|-------|----------|------------|--------|----------|--------|----------|--------|--------|------------|
|   | MHz     | dBm   |          |            |        |          |        |          |        |        |            |
| 1 | 1906.00 | 24.52 | RMS      | 25.80      | 7.68   | 0.00     | -95.23 | 86.27    | -13.00 | 37.52  | Horizontal |



Site : 03CH20-HY

Condition: -13 3m HF\_9120D\_02360\_241101 Vertical

: WCDMA Band II Ch9538

: #1 is fundamental signal which can be ignored.

| 1 | Freq    | Level | Detector | Ant Factor | Amp\Cb | Filter 1 | EIRPCF | Readin g | Limit  | Margin | Pol      |
|---|---------|-------|----------|------------|--------|----------|--------|----------|--------|--------|----------|
|   | MHz     | dBm   |          |            |        |          |        |          |        |        |          |
| 1 | 1906.00 | 26.96 | RMS      | 25.80      | 7.68   | 0.00     | -95.23 | 88.71    | -13.00 | 39.96  | Vertical |

**Remark:** #1 is fundamental signal which can be ignored.