



FCC RADIO TEST REPORT

FCC ID : MSQZ01QD
Equipment : ASUS Phone (Mobile Phone)
Brand Name : ASUS
Model Name : ASUS_Z01QD
Applicant : ASUSTeK COMPUTER INC.
4F, No. 150, LI-TE RD., PEITOU, TAIPEI, TAIWAN
Manufacturer : Arima Communications (Jiangsu) Co., LTD
No. 168, Jiao Tong North Road, Wu Jiang, Su Zhou,
Jiang Su, PRC.
Standard : 47 CFR Part 2, 22(H), 24(E), 27(L)

The product was received on May 24, 2018 and testing was started from Jun. 29, 2018 and completed on Jul. 29, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

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

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

Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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



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History of this test report

| Report No. | Version | Description | Issued Date |
|------------|---------|-------------------------|---------------|
| FG852405A | 01 | Initial issue of report | Aug. 01, 2018 |
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Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|---------------|-----------------|--|--------------------|--|
| 3.2 | §2.1046 | Conducted Output Power | Pass | - |
| | §22.913 (a)(2) | Effective Radiated Power | | |
| | §24.232 (c) | Equivalent Isotropic Radiated Power | | |
| | §27.50 (d)(4) | Equivalent Isotropic Radiated Power | | |
| 3.3 | §24.232 (d) | Peak-to-Average Ratio | Pass | - |
| 3.4 | §2.1049 | Occupied Bandwidth | Pass | - |
| | §22.917 (b) | | | |
| | §24.238 (b) | | | |
| | §27.53 (g) | | | |
| 3.5 | §2.1051 | Band Edge Measurement | Pass | - |
| | §22.917 (a) | | | |
| | §24.238 (a) | | | |
| | §27.53 (g) | | | |
| 3.6 | §2.1051 | Conducted Emission | Pass | - |
| | §22.917 (a) | | | |
| | §24.238 (a) | | | |
| | §27.53 (g) | | | |
| 3.7 | §2.1055 | Frequency Stability Temperature & Voltage | Pass | - |
| | §22.355 | | | - |
| | §2.1055 | | | - |
| | §24.235 | | | - |
| | §27.54 | | | |
| 4.4 | §2.1053 | Field Strength of Spurious Radiation | Pass | Under limit 22.25 dB at 5730.000 MHz |
| | §22.917 (a) | | | |
| | §24.238 (a) | | | |
| | §27.53 (h) | | | |

Reviewed by: Joseph Lin

Report Producer: Maggie Chiang



1 General Description

1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, FM Receiver, NFC, WiGig, and GNSS

| Product Specification subjective to this standard | |
|---|--|
| Antenna Type | WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna GPS/Glonass/Galileo/BDS: PIFA Antenna NFC: Loop Antenna WiGig: Patch Antenna FM: using earphone as antenna |

1.2 Modification of EUT

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

1.3 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

| | |
|---------------------------|---|
| Test Site | SPORTON INTERNATIONAL INC. |
| Test Site Location | No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978 |
| Test Site No. | Sporton Site No. |
| | TH03-HY |

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

| | |
|---------------------------|---|
| Test Site | SPORTON INTERNATIONAL INC. |
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855 |
| Test Site No. | Sporton Site No. |
| | 03CH13-HY |

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



1.4 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ 47 CFR Part 2, 22(H), 24(E), 27(L)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane and Y Plane for LAT antenna; Y Plane for UAT antenna) were recorded in this report.

Radiated emissions were investigated as following frequency range:

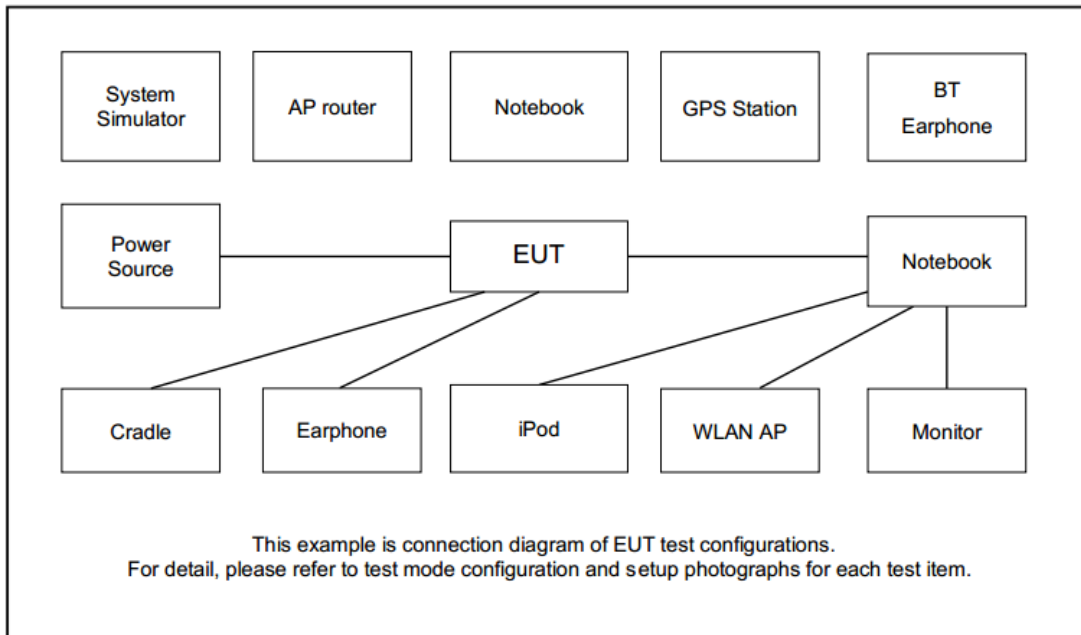
1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V.
2. 30 MHz to 18000 MHz for WCDMA Band IV.
3. 30 MHz to 19100 MHz for GSM1900 and WCDMA Band II.

All modes and data rates and positions were investigated.

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

| Test Modes | | |
|---------------|-----------------------------------|-----------------------------------|
| Band | Radiated TCs | Conducted TCs |
| GSM 850 | ■ GSM Link ■ EDGE Class 8 Link | ■ GSM Link ■ EDGE Class 8 Link |
| GSM 1900 | ■ GSM Link ■ EDGE Class 8 Link | ■ GSM Link ■ EDGE Class 8 Link |
| 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 | Trade Name | Model No. | FCC ID | Data Cable | Power Cord |
|------|------------------|------------|-----------|--------|------------|-------------------|
| 1. | System Simulator | R&S | CMU 200 | N/A | N/A | Unshielded, 1.8 m |

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

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

Example:

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



2.5 Frequency List of Low/Middle/High Channels

| Frequency List | | | | |
|----------------|------------------------|--------|--------|---------|
| Band | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| GSM850 | Channel | 128 | 189 | 251 |
| | Frequency | 824.2 | 836.4 | 848.8 |
| WCDMA Band V | Channel | 4132 | 4182 | 4233 |
| | Frequency | 826.4 | 836.4 | 846.6 |
| GSM1900 | Channel | 512 | 661 | 810 |
| | Frequency | 1850.2 | 1880.0 | 1909.8 |
| WCDMA Band II | Channel | 9262 | 9400 | 9538 |
| | Frequency | 1852.4 | 1880.0 | 1907.6 |
| WCDMA Band IV | Channel | 1312 | 1413 | 1513 |
| | Frequency | 1712.4 | 1732.6 | 1752.6 |

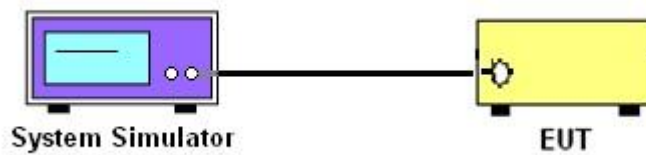
3 Conducted Test Result

3.1 Measuring Instruments

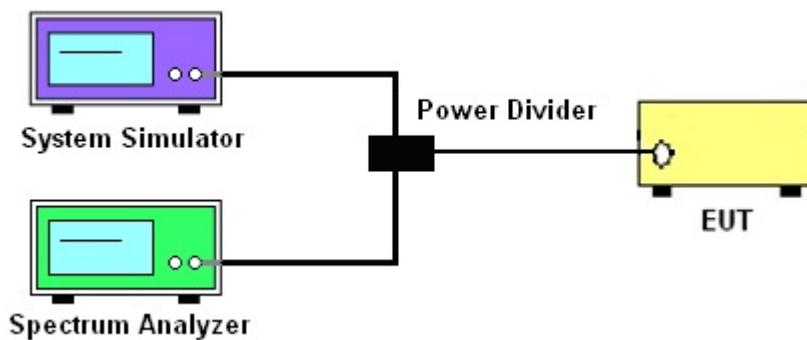
See list of measuring instruments of this test report.

3.1.1 Test Setup

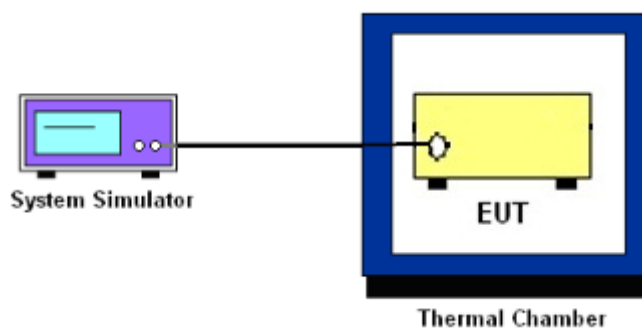
3.1.2 Conducted Output Power



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



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power and ERP/EIRP

3.2.1 Description of the Conducted Output Power and ERP/EIRP

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

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

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

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



3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

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

3.3.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 5.7.1

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



3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.4.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

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

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

3.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 4.2

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



3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

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

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.0.

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



3.6 Conducted Spurious Emission

3.6.1 Description of Conducted Spurious Emission Measurement

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

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

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.0.

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



3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

22.355

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

24.235 & 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 was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C steps up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

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

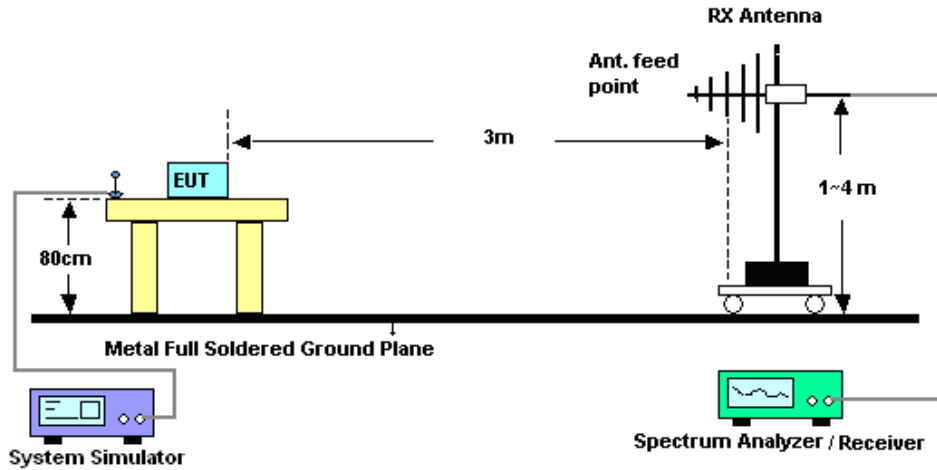
4 Radiated Test Items

4.1 Measuring Instruments

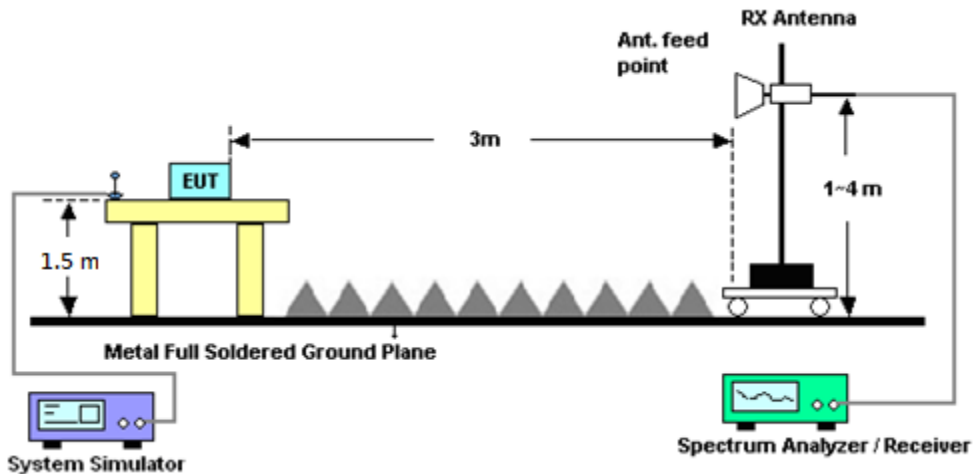
See list of measuring instruments of this test report.

4.2 Test Setup

For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.



4.4 Field Strength of Spurious Radiation Measurement

4.4.1 Description of Field Strength of Spurious Radiated Measurement

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

4.4.2 Test Procedures

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

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



5 List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---------------------------|-------------------|------------------------------|------------------|--------------------------------|------------------|---------------------------------|---------------|-----------------------|
| Spectrum Analyzer | Rohde & Schwarz | FSP30 | 101329 | 9kHz~30GHz | Jun. 29, 2018 | Jul. 29, 2018 | Jun. 28, 2019 | Conducted (TH03-HY) |
| Temperature Chamber | ESPEC | SU-641 | 92013721 | -30°C ~70°C | Dec. 06, 2017 | Jul. 29, 2018 | Dec. 05, 2019 | Conducted (TH03-HY) |
| Programmable Power Supply | GW Instek | PSS-2005 | EL883644 | Voltage:0~20V; Current:0~5A | Dec. 06, 2017 | Jul. 29, 2018 | Dec. 05, 2019 | Conducted (TH03-HY) |
| Base Station (Measure) | Rohde & Schwarz | CMU200 | 117995 | GSM / GPRS / WCDMA / CDMA | Aug. 09, 2017 | Jul. 29, 2018 | Aug. 08, 2018 | Conducted (TH03-HY) |
| Amplifier | Sonoma-Instrument | 310 N | 187282 | 9KHz~1GHz | Dec. 21, 2016 | Jun. 29, 2018~ Jul. 21, 2018 | Dec. 20, 2018 | Radiation (03CH13-HY) |
| Bilog Antenna | TESEQ | CBL 6111D&00800N 1D01N-06 | 40103&07 | 30MHz to 1GHz | Jan. 10, 2018 | Jun. 29, 2018~ Jul. 21, 2018 | Jan. 09, 2019 | Radiation (03CH13-HY) |
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | 9120D-1241 | 1GHz ~ 18GHz | Jun. 29, 2018 | Jun. 29, 2018~ Jul. 21, 2018 | Jun. 28, 2019 | Radiation (03CH13-HY) |
| Preamplifier | Keysight | 83017A | MY53270147 | 1GHz~26.5GHz | Feb. 02, 2018 | Jun. 29, 2018~ Jul. 21, 2018 | Feb. 01, 2019 | Radiation (03CH13-HY) |
| Spectrum Analyzer | Keysight | N9010A | MY55370526 | 10Hz~44GHz | Mar. 15, 2018 | Jun. 29, 2018~ Jul. 21, 2018 | Mar. 14, 2019 | Radiation (03CH13-HY) |
| Controller | EMEC | EM1000 | N/A | Control Turn table & Ant Mast | N/A | Jun. 29, 2018~ Jul. 21, 2018 | N/A | Radiation (03CH13-HY) |
| Antenna Mast | EMEC | AM-BS-4500-B | N/A | 1m~4m | N/A | Jun. 29, 2018~ Jul. 21, 2018 | N/A | Radiation (03CH13-HY) |
| Turn Table | EMEC | TT2000 | N/A | 0~360 Degree | N/A | Jun. 29, 2018~ Jul. 21, 2018 | N/A | Radiation (03CH13-HY) |
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | 9120D-1522 | 1G~18GHz | May 10, 2018 | Jun. 29, 2018~ Jul. 21, 2018 | May 09, 2019 | Radiation (03CH13-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170584 | 18GHz- 40GHz | Nov. 27, 2017 | Jun. 29, 2018~ Jul. 21, 2018 | Nov. 26, 2018 | Radiation (03CH13-HY) |
| Signal Generator | Anritsu | MG3694C | 163401 | 0.1Hz~40GHz | Jan. 15, 2018 | Jun. 29, 2018~ Jul. 21, 2018 | Jan. 14, 2019 | Radiation (03CH13-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 126E | 0030/126E | 30M-18G | Jan. 22, 2018 | Jun. 29, 2018~ Jul. 21, 2018 | Jan. 21, 2019 | Radiation (03CH13-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | 335041/4 | 30M-18G | Jan. 22, 2018 | Jun. 29, 2018~ Jul. 21, 2018 | Jan. 21, 2019 | Radiation (03CH13-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | MY24961/4 | 30M~18GHz | Jan. 22, 2018 | Jun. 29, 2018~ Jul. 21, 2018 | Jan. 21, 2019 | Radiation (03CH13-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 102 | 505134/2 | 30M~40GHz | Oct. 17, 2017 | Jun. 29, 2018~ Jul. 21, 2018 | Oct. 16, 2018 | Radiation (03CH13-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 102 | 800740/2 | 30M~40GHz | Oct. 17, 2017 | Jun. 29, 2018~ Jul. 21, 2018 | Oct. 16, 2018 | Radiation (03CH13-HY) |
| Software | AUDIX | E3 6.2009-8-24c | RK-001124 | N/A | N/A | Jun. 29, 2018~ Jul. 21, 2018 | N/A | Radiation (03CH13-HY) |
| Preamplifier | Jet-Power | JPA0118-55-303 | 1710001800054001 | 1GHz~18GHz | Apr. 16, 2018 | Jun. 29, 2018~ Jul. 21, 2018 | Apr. 15, 2019 | Radiation (03CH13-HY) |
| Amplifier | MITEQ | TTA1840-35-HG | 1871923 | 18GHz~40GHz, VSWR : 2.5:1 max | Jul. 18, 2017 | Jun. 29, 2018~ Jul. 15, 2018 | Jul. 17, 2018 | Radiation (03CH13-HY) |
| Amplifier | MITEQ | TTA1840-35-HG | 1871923 | 18GHz~40GHz, VSWR : 2.5:1 max | Jul. 16, 2018 | Jul. 16, 2018~ Jul. 21, 2018 | Jul. 15, 2019 | Radiation (03CH13-HY) |
| Filter | Wainwright | WLKS1200-8SS | SN3 | 1.2G Low Pass | Nov. 21, 2017 | Jun. 29, 2018~ Jul. 21, 2018 | Nov. 20, 2018 | Radiation (03CH13-HY) |
| Filter | Wainwright | WHKX12-1080-1200-1500-60SS | SN2 | 1.2G High Pass | Sep. 18, 2017 | Jun. 29, 2018~ Jul. 21, 2018 | Sep. 17, 2018 | Radiation (03CH13-HY) |
| Filter | Wainwright | WHKX12-2700-3000-18000-60SS | SN3 | 2.7G High Pass | Sep. 18, 2017 | Jun. 29, 2018~ Jul. 21, 2018 | Sep. 17, 2018 | Radiation (03CH13-HY) |
| Notch Filter | Wainwright | WRCD1710-1980-10-40-10SSK | SN1 | 1710-1980 | Nov. 03, 2017 | Jun. 29, 2018~ Jul. 21, 2018 | Nov. 02, 2018 | Radiation (03CH13-HY) |
| Notch Filter | Wainwright | WTRCT5-824-849-20-70-60SSK | SN1 | 824-849 | May 22, 2018 | Jun. 29, 2018~ Jul. 21, 2018 | May 21, 2019 | Radiation (03CH13-HY) |
| Notch Filter | Wainwright | WTRCT10-2500-2570-20-40-40SS | SN1 | 2500-2570 | May 22, 2018 | Jun. 29, 2018~ Jul. 21, 2018 | May 21, 2019 | Radiation (03CH13-HY) |



6 Uncertainty of Evaluation

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

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 3.07 |
|---|------|

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

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 3.48 |
|---|------|

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

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 3.92 |
|---|------|



Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

| Conducted Power (*Unit: dBm) | | | | | | |
|------------------------------|--------------|--------------|-------|---------|-------|--------------|
| Band | GSM850 | | | GSM1900 | | |
| Channel | 128 | 189 | 251 | 512 | 661 | 810 |
| Frequency | 824.2 | 836.4 | 848.8 | 1850.2 | 1880 | 1909.8 |
| GSM | 32.51 | 32.71 | 32.60 | 29.40 | 29.54 | 29.67 |
| GPRS class 8 | 32.44 | 32.66 | 32.60 | 29.36 | 29.52 | 29.66 |
| GPRS class 10 | 32.25 | 32.49 | 32.56 | 29.10 | 29.32 | 29.52 |
| GPRS class 11 | - | - | - | - | - | - |
| GPRS class 12 | - | - | - | - | - | - |
| EGPRS class 8 | 26.74 | 26.17 | 25.78 | 24.75 | 24.66 | 24.86 |
| EGPRS class 10 | 26.54 | 26.12 | 25.69 | 24.66 | 24.56 | 24.78 |
| EGPRS class 11 | - | - | - | - | - | - |
| EGPRS class 12 | - | - | - | - | - | - |

| Conducted Power (*Unit: dBm) | | | | | | |
|------------------------------|--------------|-------|-------|---------------|-------|--------|
| Band | WCDMA Band V | | | WCDMA Band II | | |
| Channel | 4132 | 4182 | 4233 | 9262 | 9400 | 9538 |
| Frequency | 826.4 | 836.4 | 846.6 | 1852.4 | 1880 | 1907.6 |
| RMC 12.2K | 23.43 | 23.22 | 23.14 | 24.41 | 24.29 | 23.94 |
| HSDPA Subtest-1 | 22.43 | 22.33 | 22.14 | 23.41 | 23.30 | 22.95 |
| HSDPA Subtest-2 | 22.45 | 22.32 | 22.15 | 23.42 | 23.30 | 22.94 |
| HSDPA Subtest-3 | 21.47 | 21.84 | 21.65 | 22.96 | 22.84 | 22.50 |
| HSDPA Subtest-4 | 21.96 | 21.76 | 21.65 | 22.94 | 22.85 | 22.58 |
| HSUPA Subtest-1 | 22.42 | 22.31 | 22.12 | 23.42 | 23.34 | 22.96 |
| HSUPA Subtest-2 | 20.43 | 20.34 | 20.13 | 21.46 | 21.36 | 21.12 |
| HSUPA Subtest-3 | 21.45 | 21.35 | 21.12 | 22.47 | 22.37 | 22.09 |
| HSUPA Subtest-4 | 20.43 | 20.32 | 20.11 | 21.46 | 21.34 | 21.10 |
| HSUPA Subtest-5 | 22.45 | 22.32 | 22.15 | 23.46 | 23.35 | 23.09 |

| Conducted Power (*Unit: dBm) | | | |
|------------------------------|---------------|--------|--------|
| Band | WCDMA Band IV | | |
| Channel | 1312 | 1413 | 1513 |
| Frequency | 1712.4 | 1732.6 | 1752.6 |
| RMC 12.2K | 24.14 | 24.13 | 24.09 |
| HSDPA Subtest-1 | 23.14 | 23.15 | 23.20 |
| HSDPA Subtest-2 | 23.17 | 23.25 | 23.22 |
| HSDPA Subtest-3 | 22.66 | 22.78 | 22.73 |
| HSDPA Subtest-4 | 22.67 | 22.71 | 22.74 |
| HSUPA Subtest-1 | 23.19 | 23.28 | 23.24 |
| HSUPA Subtest-2 | 21.20 | 21.30 | 21.25 |
| HSUPA Subtest-3 | 22.22 | 22.29 | 22.25 |
| HSUPA Subtest-4 | 21.20 | 21.30 | 21.24 |
| HSUPA Subtest-5 | 23.19 | 23.29 | 23.24 |



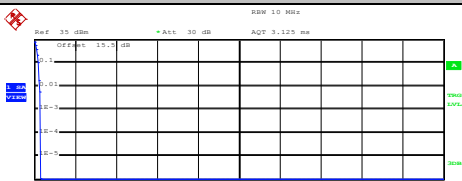
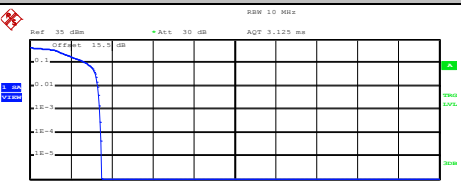
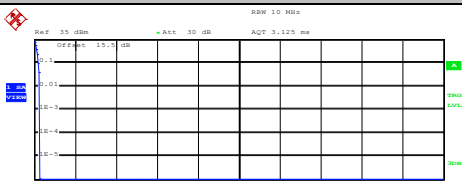
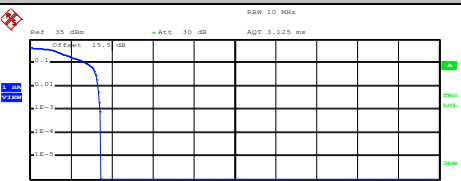
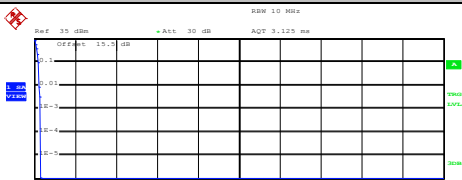
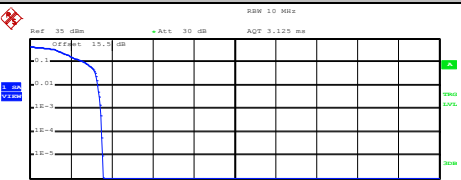
A2. GSM

Peak-to-Average Ratio

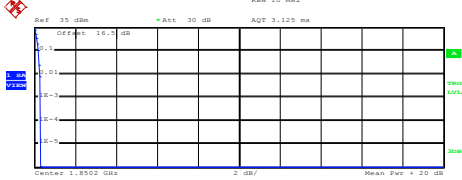
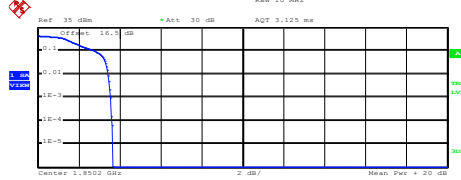
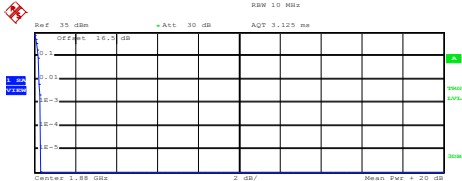
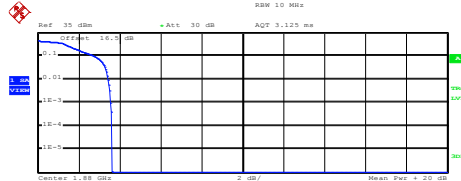
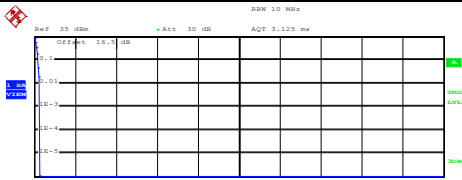
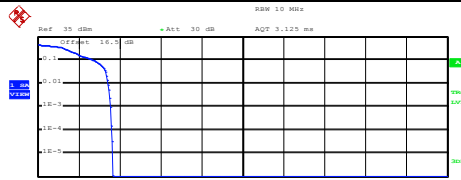
| Mode | GSM850 | | Limit: 13dB |
|------------|--------|--------------|-------------|
| Mod. | GSM | EDGE class 8 | Result |
| Lowest CH | 0.32 | 3.40 | PASS |
| Middle CH | 0.28 | 3.44 | |
| Highest CH | 0.32 | 3.44 | |

| Mode | GSM1900 | | Limit: 13dB |
|------------|---------|--------------|-------------|
| Mod. | GSM | EDGE class 8 | Result |
| Lowest CH | 0.32 | 3.56 | PASS |
| Middle CH | 0.32 | 3.56 | |
| Highest CH | 0.28 | 3.56 | |



| GSM850 (GSM) | GSM850 (EDGE class 8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------|-----------|------|-----------|-------|---------|------|---------|-----|---------|------|---------|-------|---------|--|------|-----------|------|-----------|-------|---------|------|---------|-----|---------|------|---------|-------|---------|
| <p align="center">Lowest Channel</p>  <p>Ref: 35 dBm, Att: 30 dB, AQT: 3.125 ms, RBW: 10 MHz, Center: 824.2 MHz, Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1</p> <table border="1"> <tr><td>Mean</td><td>32.06 dBm</td></tr> <tr><td>Peak</td><td>32.36 dBm</td></tr> <tr><td>Crest</td><td>0.30 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>0.20 dB</td></tr> <tr><td>1 %</td><td>0.28 dB</td></tr> <tr><td>.1 %</td><td>0.32 dB</td></tr> <tr><td>.01 %</td><td>0.32 dB</td></tr> </table> <p>Date: 29.JUL.2018 10:05:11</p> | Mean | 32.06 dBm | Peak | 32.36 dBm | Crest | 0.30 dB | 10 % | 0.20 dB | 1 % | 0.28 dB | .1 % | 0.32 dB | .01 % | 0.32 dB | <p align="center">Lowest Channel</p>  <p>Ref: 35 dBm, Att: 30 dB, AQT: 3.125 ms, RBW: 10 MHz, Center: 824.2 MHz, Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1</p> <table border="1"> <tr><td>Mean</td><td>26.41 dBm</td></tr> <tr><td>Peak</td><td>29.89 dBm</td></tr> <tr><td>Crest</td><td>3.48 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>2.76 dB</td></tr> <tr><td>1 %</td><td>3.32 dB</td></tr> <tr><td>.1 %</td><td>3.40 dB</td></tr> <tr><td>.01 %</td><td>3.48 dB</td></tr> </table> <p>Date: 29.JUL.2018 14:25:22</p> | Mean | 26.41 dBm | Peak | 29.89 dBm | Crest | 3.48 dB | 10 % | 2.76 dB | 1 % | 3.32 dB | .1 % | 3.40 dB | .01 % | 3.48 dB |
| Mean | 32.06 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | 32.36 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Crest | 0.30 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 % | 0.20 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 % | 0.28 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| .1 % | 0.32 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| .01 % | 0.32 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean | 26.41 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | 29.89 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Crest | 3.48 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 % | 2.76 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 % | 3.32 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| .1 % | 3.40 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| .01 % | 3.48 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p align="center">Middle Channel</p>  <p>Ref: 35 dBm, Att: 30 dB, AQT: 3.125 ms, RBW: 10 MHz, Center: 836.4 MHz, Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1</p> <table border="1"> <tr><td>Mean</td><td>32.23 dBm</td></tr> <tr><td>Peak</td><td>32.50 dBm</td></tr> <tr><td>Crest</td><td>0.27 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>0.20 dB</td></tr> <tr><td>1 %</td><td>0.28 dB</td></tr> <tr><td>.1 %</td><td>0.28 dB</td></tr> <tr><td>.01 %</td><td>0.28 dB</td></tr> </table> <p>Date: 29.JUL.2018 10:05:30</p> | Mean | 32.23 dBm | Peak | 32.50 dBm | Crest | 0.27 dB | 10 % | 0.20 dB | 1 % | 0.28 dB | .1 % | 0.28 dB | .01 % | 0.28 dB | <p align="center">Middle Channel</p>  <p>Ref: 35 dBm, Att: 30 dB, AQT: 3.125 ms, RBW: 10 MHz, Center: 836.4 MHz, Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1</p> <table border="1"> <tr><td>Mean</td><td>25.93 dBm</td></tr> <tr><td>Peak</td><td>29.40 dBm</td></tr> <tr><td>Crest</td><td>3.47 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>2.76 dB</td></tr> <tr><td>1 %</td><td>3.32 dB</td></tr> <tr><td>.1 %</td><td>3.44 dB</td></tr> <tr><td>.01 %</td><td>3.48 dB</td></tr> </table> <p>Date: 29.JUL.2018 14:25:40</p> | Mean | 25.93 dBm | Peak | 29.40 dBm | Crest | 3.47 dB | 10 % | 2.76 dB | 1 % | 3.32 dB | .1 % | 3.44 dB | .01 % | 3.48 dB |
| Mean | 32.23 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | 32.50 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Crest | 0.27 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 % | 0.20 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 % | 0.28 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| .1 % | 0.28 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| .01 % | 0.28 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean | 25.93 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | 29.40 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Crest | 3.47 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 % | 2.76 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 % | 3.32 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| .1 % | 3.44 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| .01 % | 3.48 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p align="center">Highest Channel</p>  <p>Ref: 35 dBm, Att: 30 dB, AQT: 3.125 ms, RBW: 10 MHz, Center: 848.8 MHz, Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1</p> <table border="1"> <tr><td>Mean</td><td>32.41 dBm</td></tr> <tr><td>Peak</td><td>32.71 dBm</td></tr> <tr><td>Crest</td><td>0.30 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>0.20 dB</td></tr> <tr><td>1 %</td><td>0.24 dB</td></tr> <tr><td>.1 %</td><td>0.32 dB</td></tr> <tr><td>.01 %</td><td>0.32 dB</td></tr> </table> <p>Date: 29.JUL.2018 10:05:52</p> | Mean | 32.41 dBm | Peak | 32.71 dBm | Crest | 0.30 dB | 10 % | 0.20 dB | 1 % | 0.24 dB | .1 % | 0.32 dB | .01 % | 0.32 dB | <p align="center">Highest Channel</p>  <p>Ref: 35 dBm, Att: 30 dB, AQT: 3.125 ms, RBW: 10 MHz, Center: 848.8 MHz, Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1</p> <table border="1"> <tr><td>Mean</td><td>25.41 dBm</td></tr> <tr><td>Peak</td><td>28.97 dBm</td></tr> <tr><td>Crest</td><td>3.56 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>2.68 dB</td></tr> <tr><td>1 %</td><td>3.32 dB</td></tr> <tr><td>.1 %</td><td>3.44 dB</td></tr> <tr><td>.01 %</td><td>3.52 dB</td></tr> </table> <p>Date: 29.JUL.2018 14:26:08</p> | Mean | 25.41 dBm | Peak | 28.97 dBm | Crest | 3.56 dB | 10 % | 2.68 dB | 1 % | 3.32 dB | .1 % | 3.44 dB | .01 % | 3.52 dB |
| Mean | 32.41 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | 32.71 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Crest | 0.30 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 % | 0.20 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 % | 0.24 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| .1 % | 0.32 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| .01 % | 0.32 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean | 25.41 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | 28.97 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Crest | 3.56 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 % | 2.68 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 % | 3.32 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| .1 % | 3.44 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| .01 % | 3.52 dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| GSM1900 (GSM) | GSM1900 (EDGE class 8) | | | | | | | | | | | | | | | | |
|---|------------------------|---------|-----|---------|------|---------|-------|---------|--|------|---------|-----|---------|------|---------|-------|---------|
| <p align="center">Lowest Channel</p>  <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 29.17 dBm Peak 29.47 dBm Crest 0.30 dB</p> <table border="1"> <tr><td>10 %</td><td>0.20 dB</td></tr> <tr><td>1 %</td><td>0.28 dB</td></tr> <tr><td>.1 %</td><td>0.32 dB</td></tr> <tr><td>.01 %</td><td>0.32 dB</td></tr> </table> <p>Date: 29.JUL.2018 10:46:57</p> | 10 % | 0.20 dB | 1 % | 0.28 dB | .1 % | 0.32 dB | .01 % | 0.32 dB | <p align="center">Lowest Channel</p>  <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.04 dBm Peak 27.70 dBm Crest 3.66 dB</p> <table border="1"> <tr><td>10 %</td><td>2.80 dB</td></tr> <tr><td>1 %</td><td>3.44 dB</td></tr> <tr><td>.1 %</td><td>3.56 dB</td></tr> <tr><td>.01 %</td><td>3.64 dB</td></tr> </table> <p>Date: 29.JUL.2018 14:45:33</p> | 10 % | 2.80 dB | 1 % | 3.44 dB | .1 % | 3.56 dB | .01 % | 3.64 dB |
| 10 % | 0.20 dB | | | | | | | | | | | | | | | | |
| 1 % | 0.28 dB | | | | | | | | | | | | | | | | |
| .1 % | 0.32 dB | | | | | | | | | | | | | | | | |
| .01 % | 0.32 dB | | | | | | | | | | | | | | | | |
| 10 % | 2.80 dB | | | | | | | | | | | | | | | | |
| 1 % | 3.44 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.56 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.64 dB | | | | | | | | | | | | | | | | |
| <p align="center">Middle Channel</p>  <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 29.17 dBm Peak 29.47 dBm Crest 0.30 dB</p> <table border="1"> <tr><td>10 %</td><td>0.20 dB</td></tr> <tr><td>1 %</td><td>0.24 dB</td></tr> <tr><td>.1 %</td><td>0.32 dB</td></tr> <tr><td>.01 %</td><td>0.32 dB</td></tr> </table> <p>Date: 29.JUL.2018 10:47:13</p> | 10 % | 0.20 dB | 1 % | 0.24 dB | .1 % | 0.32 dB | .01 % | 0.32 dB | <p align="center">Middle Channel</p>  <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.01 dBm Peak 27.63 dBm Crest 3.62 dB</p> <table border="1"> <tr><td>10 %</td><td>2.76 dB</td></tr> <tr><td>1 %</td><td>3.44 dB</td></tr> <tr><td>.1 %</td><td>3.56 dB</td></tr> <tr><td>.01 %</td><td>3.64 dB</td></tr> </table> <p>Date: 29.JUL.2018 14:46:00</p> | 10 % | 2.76 dB | 1 % | 3.44 dB | .1 % | 3.56 dB | .01 % | 3.64 dB |
| 10 % | 0.20 dB | | | | | | | | | | | | | | | | |
| 1 % | 0.24 dB | | | | | | | | | | | | | | | | |
| .1 % | 0.32 dB | | | | | | | | | | | | | | | | |
| .01 % | 0.32 dB | | | | | | | | | | | | | | | | |
| 10 % | 2.76 dB | | | | | | | | | | | | | | | | |
| 1 % | 3.44 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.56 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.64 dB | | | | | | | | | | | | | | | | |
| <p align="center">Highest Channel</p>  <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 28.85 dBm Peak 29.12 dBm Crest 0.27 dB</p> <table border="1"> <tr><td>10 %</td><td>0.20 dB</td></tr> <tr><td>1 %</td><td>0.24 dB</td></tr> <tr><td>.1 %</td><td>0.28 dB</td></tr> <tr><td>.01 %</td><td>0.28 dB</td></tr> </table> <p>Date: 29.JUL.2018 10:47:33</p> | 10 % | 0.20 dB | 1 % | 0.24 dB | .1 % | 0.28 dB | .01 % | 0.28 dB | <p align="center">Highest Channel</p>  <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.20 dBm Peak 27.85 dBm Crest 3.64 dB</p> <table border="1"> <tr><td>10 %</td><td>2.76 dB</td></tr> <tr><td>1 %</td><td>3.44 dB</td></tr> <tr><td>.1 %</td><td>3.56 dB</td></tr> <tr><td>.01 %</td><td>3.60 dB</td></tr> </table> <p>Date: 29.JUL.2018 14:46:16</p> | 10 % | 2.76 dB | 1 % | 3.44 dB | .1 % | 3.56 dB | .01 % | 3.60 dB |
| 10 % | 0.20 dB | | | | | | | | | | | | | | | | |
| 1 % | 0.24 dB | | | | | | | | | | | | | | | | |
| .1 % | 0.28 dB | | | | | | | | | | | | | | | | |
| .01 % | 0.28 dB | | | | | | | | | | | | | | | | |
| 10 % | 2.76 dB | | | | | | | | | | | | | | | | |
| 1 % | 3.44 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.56 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.60 dB | | | | | | | | | | | | | | | | |



26dB Bandwidth

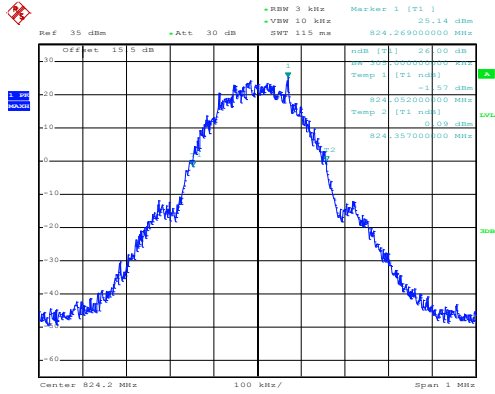
| Mode | GSM850 | |
|------------|--------|--------------|
| Mod. | GSM | EDGE class 8 |
| Lowest CH | 0.305 | 0.302 |
| Middle CH | 0.315 | 0.296 |
| Highest CH | 0.315 | 0.306 |

| Mode | GSM1900 | |
|------------|---------|--------------|
| Mod. | GSM | EDGE class 8 |
| Lowest CH | 0.315 | 0.297 |
| Middle CH | 0.314 | 0.301 |
| Highest CH | 0.292 | 0.303 |



GSM850 (GSM)

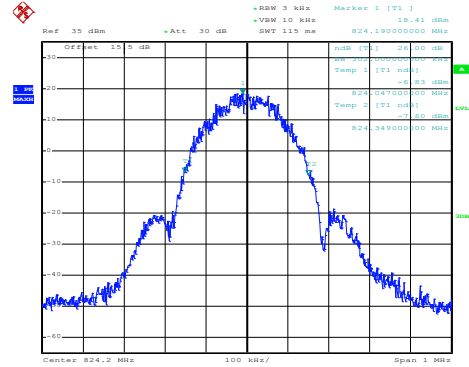
Lowest Channel



Date: 29.JUL.2018 09:48:49

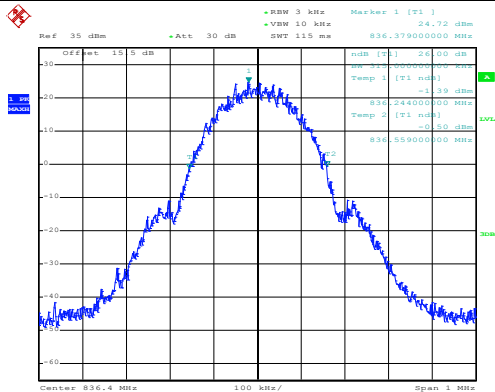
GSM850 (EDGE class 8)

Lowest Channel



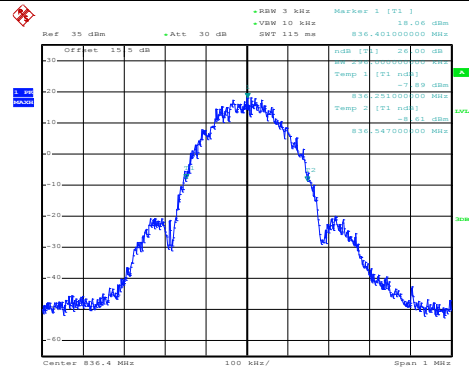
Date: 29.JUL.2018 14:09:49

Middle Channel



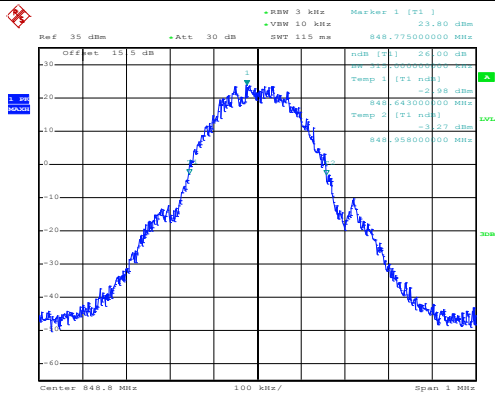
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Middle Channel



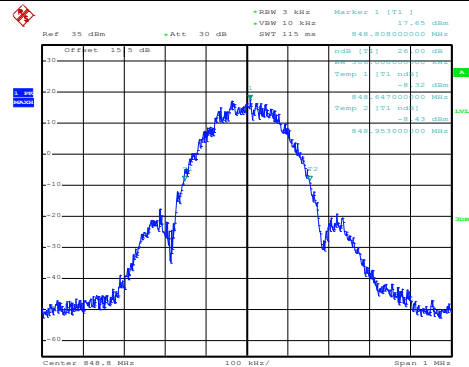
Date: 29.JUL.2018 14:10:23

Highest Channel

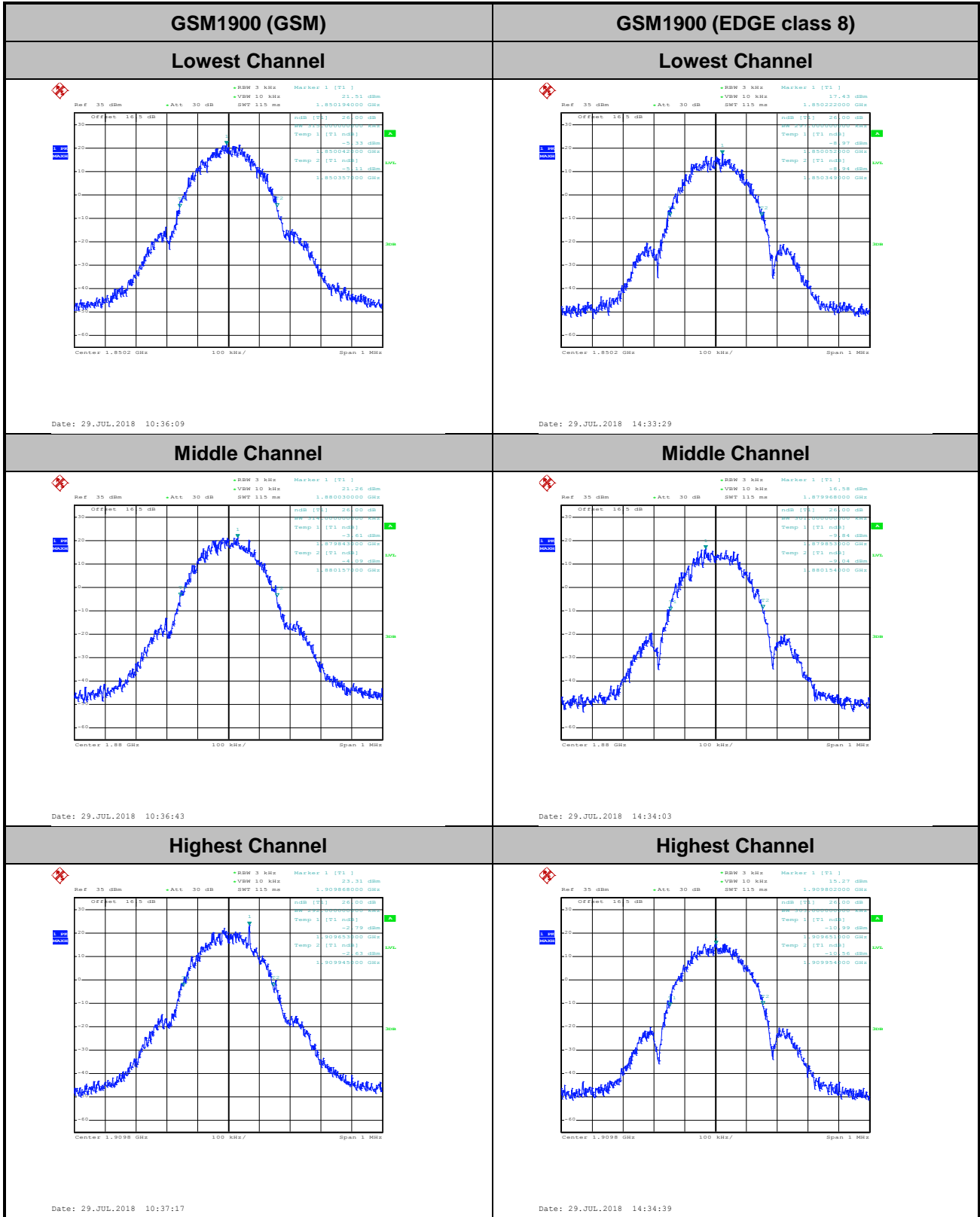


Date: 29.JUL.2018 09:50:08

Highest Channel



Date: 29.JUL.2018 14:10:58





Occupied Bandwidth

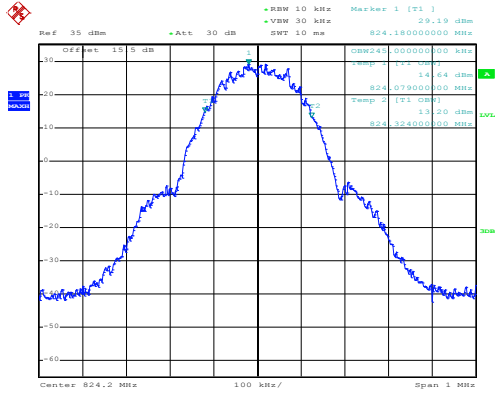
| Mode | GSM850 | |
|------------|--------|--------------|
| Mod. | GSM | EDGE class 8 |
| Lowest CH | 0.245 | 0.246 |
| Middle CH | 0.245 | 0.245 |
| Highest CH | 0.244 | 0.241 |

| Mode | GSM1900 | |
|------------|---------|--------------|
| Mod. | GSM | EDGE class 8 |
| Lowest CH | 0.244 | 0.244 |
| Middle CH | 0.246 | 0.242 |
| Highest CH | 0.247 | 0.244 |



GSM850 (GSM)

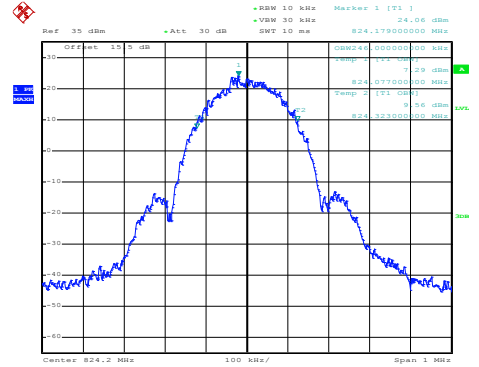
Lowest Channel



Date: 29.JUL.2018 09:51:07

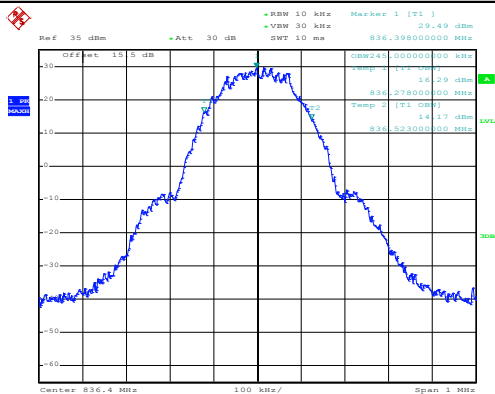
GSM850 (EDGE class 8)

Lowest Channel



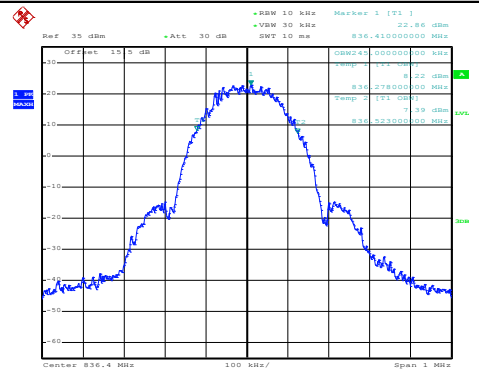
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Middle Channel



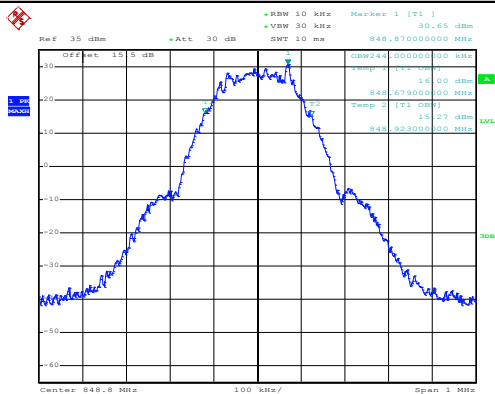
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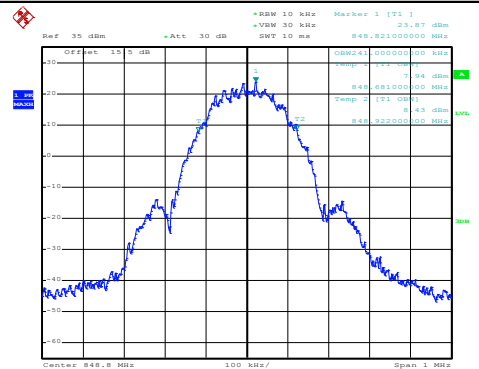
Date: 29.JUL.2018 14:14:00

Highest Channel

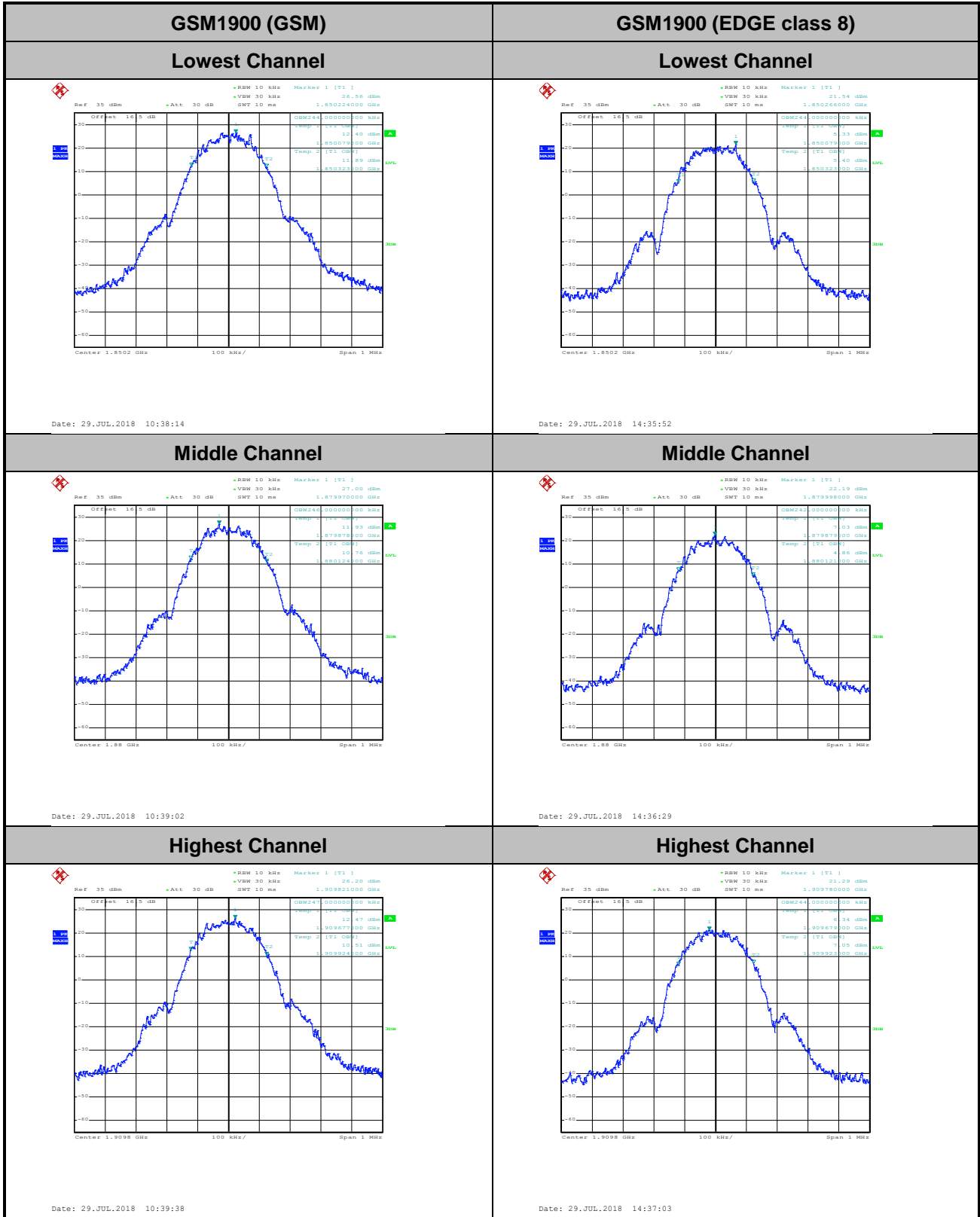


Date: 29.JUL.2018 09:52:25

Highest Channel



Date: 29.JUL.2018 14:14:34

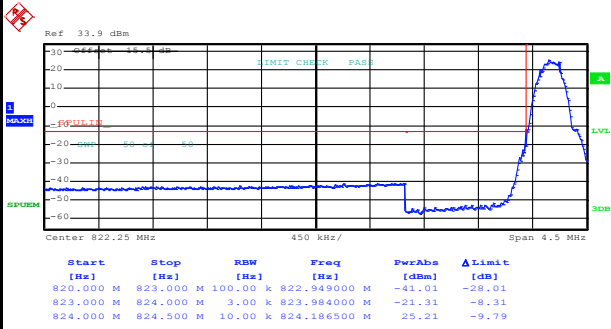




Conducted Band Edge

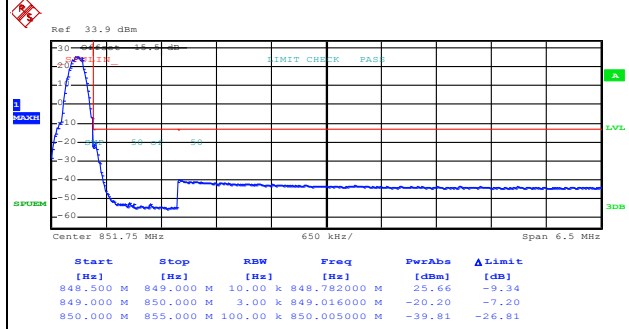
GSM850 (GSM)

Lowest Band Edge



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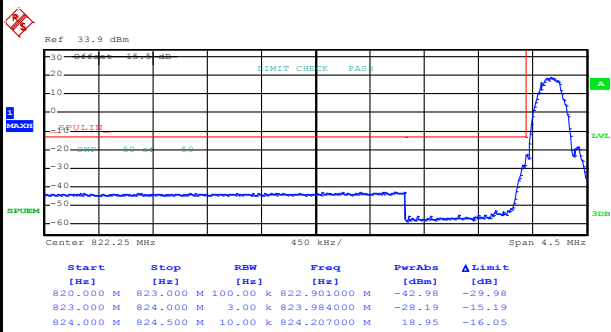
Highest Band Edge



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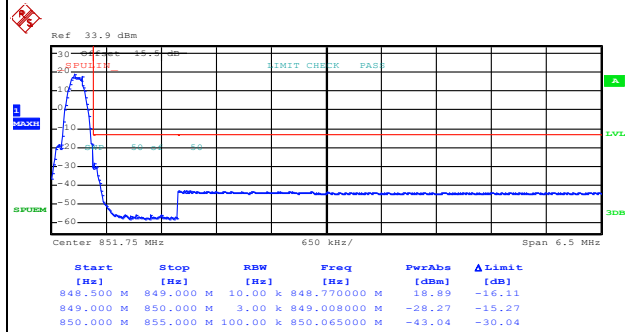
GSM850 (EDGE class 8)

Lowest Band Edge



Date: 29.JUL.2018 14:17:55

Highest Band Edge



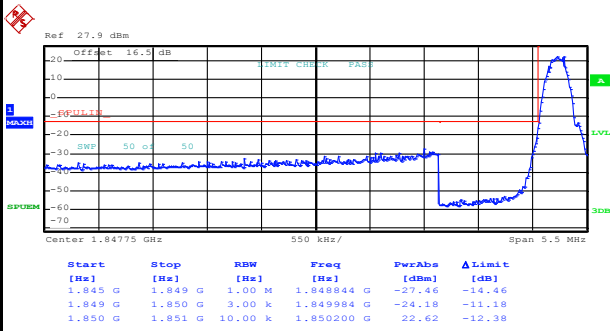
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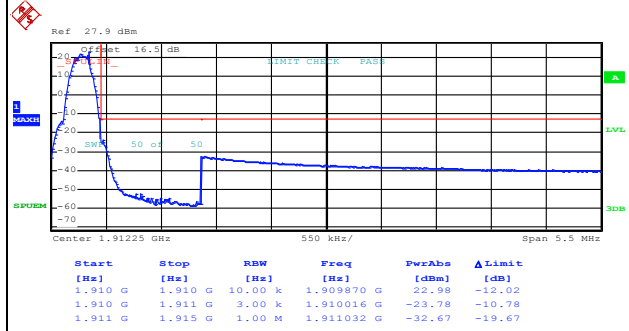
GSM1900 (GSM)

Lowest Band Edge

Highest Band Edge



Date: 29.JUL.2018 10:41:24

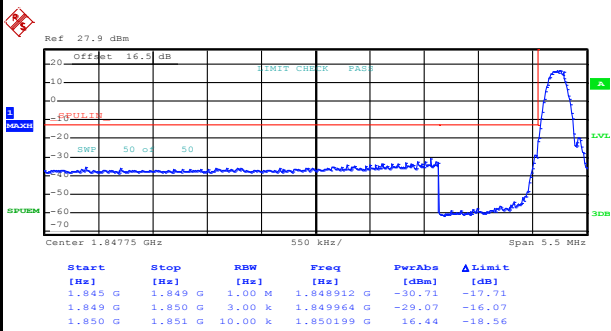


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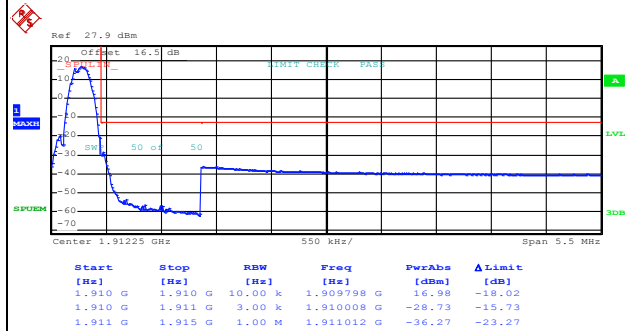
GSM1900 (EDGE class 8)

Lowest Band Edge

Highest Band Edge



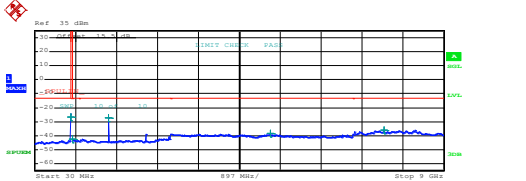
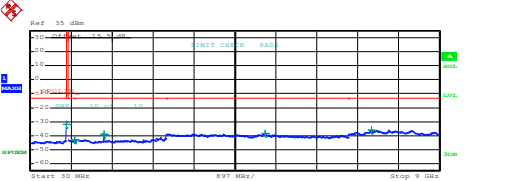
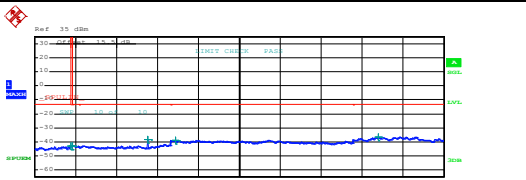
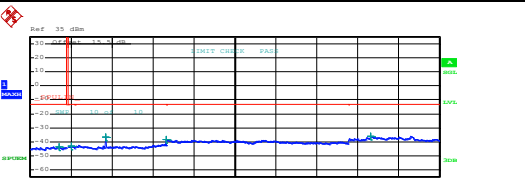
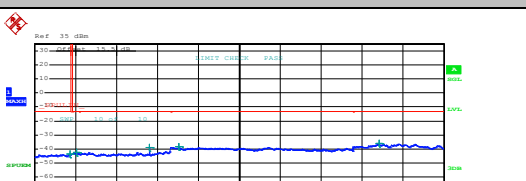
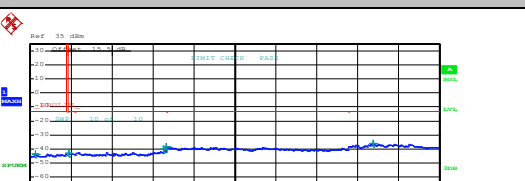
Date: 29.JUL.2018 14:38:38



Date: 29.JUL.2018 14:41:26



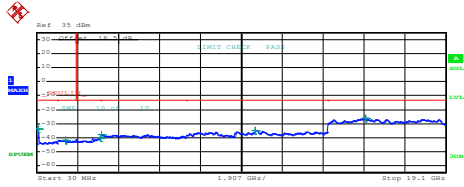
Conducted Spurious Emission

| GSM850 (GSM) | GSM850 (EDGE class 8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|-----------|--------------|--------------|--------------|-------------|----------|-----------|---------|--------------|--------|--------|-----------|---------|---------|--------------|--------|--------|---------|---------|---------|------------|--------|--------|---------|---------|---------|------------|--------|--------|---------|---------|---------|------------|--------|--------|--|------------|-----------|----------|-----------|--------------|-------------|----------|-----------|---------|--------------|--------|--------|-----------|---------|---------|--------------|--------|--------|---------|---------|---------|------------|--------|--------|---------|---------|---------|------------|--------|--------|---------|---------|---------|------------|--------|--------|
| Lowest Channel | Lowest Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="1" data-bbox="207 660 734 739"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30,000 M</td> <td>820,000 M</td> <td>1,000 M</td> <td>814,802500 M</td> <td>-26.64</td> <td>-23.64</td> </tr> <tr> <td>835,000 M</td> <td>1,000 G</td> <td>1,000 M</td> <td>857,392500 M</td> <td>-42.41</td> <td>-29.41</td> </tr> <tr> <td>1,000 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>1,648000 G</td> <td>-27.13</td> <td>-24.13</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>5,194000 G</td> <td>-38.52</td> <td>-25.52</td> </tr> <tr> <td>7,000 G</td> <td>9,000 G</td> <td>1,000 M</td> <td>7,687000 G</td> <td>-35.92</td> <td>-22.92</td> </tr> </tbody> </table> <p>Date: 29.JUL.2018 09:57:31</p> | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | 30,000 M | 820,000 M | 1,000 M | 814,802500 M | -26.64 | -23.64 | 835,000 M | 1,000 G | 1,000 M | 857,392500 M | -42.41 | -29.41 | 1,000 G | 3,000 G | 1,000 M | 1,648000 G | -27.13 | -24.13 | 3,000 G | 7,000 G | 1,000 M | 5,194000 G | -38.52 | -25.52 | 7,000 G | 9,000 G | 1,000 M | 7,687000 G | -35.92 | -22.92 |  <table border="1" data-bbox="861 660 1388 739"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30,000 M</td> <td>820,000 M</td> <td>1,000 M</td> <td>819,802500 M</td> <td>-31.73</td> <td>-18.73</td> </tr> <tr> <td>835,000 M</td> <td>1,000 G</td> <td>1,000 M</td> <td>891,537500 M</td> <td>-43.06</td> <td>-30.06</td> </tr> <tr> <td>1,000 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>1,648000 G</td> <td>-28.85</td> <td>-23.85</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>5,179000 G</td> <td>-38.53</td> <td>-25.53</td> </tr> <tr> <td>7,000 G</td> <td>9,000 G</td> <td>1,000 M</td> <td>7,504000 G</td> <td>-35.85</td> <td>-22.85</td> </tr> </tbody> </table> <p>Date: 29.JUL.2018 14:20:43</p> | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | 30,000 M | 820,000 M | 1,000 M | 819,802500 M | -31.73 | -18.73 | 835,000 M | 1,000 G | 1,000 M | 891,537500 M | -43.06 | -30.06 | 1,000 G | 3,000 G | 1,000 M | 1,648000 G | -28.85 | -23.85 | 3,000 G | 7,000 G | 1,000 M | 5,179000 G | -38.53 | -25.53 | 7,000 G | 9,000 G | 1,000 M | 7,504000 G | -35.85 | -22.85 |
| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30,000 M | 820,000 M | 1,000 M | 814,802500 M | -26.64 | -23.64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 835,000 M | 1,000 G | 1,000 M | 857,392500 M | -42.41 | -29.41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,000 G | 3,000 G | 1,000 M | 1,648000 G | -27.13 | -24.13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,000 G | 7,000 G | 1,000 M | 5,194000 G | -38.52 | -25.52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7,000 G | 9,000 G | 1,000 M | 7,687000 G | -35.92 | -22.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30,000 M | 820,000 M | 1,000 M | 819,802500 M | -31.73 | -18.73 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 835,000 M | 1,000 G | 1,000 M | 891,537500 M | -43.06 | -30.06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,000 G | 3,000 G | 1,000 M | 1,648000 G | -28.85 | -23.85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,000 G | 7,000 G | 1,000 M | 5,179000 G | -38.53 | -25.53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7,000 G | 9,000 G | 1,000 M | 7,504000 G | -35.85 | -22.85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Middle Channel | Middle Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="1" data-bbox="207 1173 734 1252"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30,000 M</td> <td>820,000 M</td> <td>1,000 M</td> <td>814.470000 M</td> <td>-43.09</td> <td>-30.09</td> </tr> <tr> <td>835,000 M</td> <td>1,000 G</td> <td>1,000 M</td> <td>861.237500 M</td> <td>-43.03</td> <td>-30.03</td> </tr> <tr> <td>1,000 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>2,509500 G</td> <td>-38.33</td> <td>-25.33</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>3,119000 G</td> <td>-38.75</td> <td>-25.75</td> </tr> <tr> <td>7,000 G</td> <td>9,000 G</td> <td>1,000 M</td> <td>7,263500 G</td> <td>-36.45</td> <td>-23.45</td> </tr> </tbody> </table> <p>Date: 29.JUL.2018 09:58:26</p> | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | 30,000 M | 820,000 M | 1,000 M | 814.470000 M | -43.09 | -30.09 | 835,000 M | 1,000 G | 1,000 M | 861.237500 M | -43.03 | -30.03 | 1,000 G | 3,000 G | 1,000 M | 2,509500 G | -38.33 | -25.33 | 3,000 G | 7,000 G | 1,000 M | 3,119000 G | -38.75 | -25.75 | 7,000 G | 9,000 G | 1,000 M | 7,263500 G | -36.45 | -23.45 |  <table border="1" data-bbox="861 1173 1388 1252"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30,000 M</td> <td>820,000 M</td> <td>1,000 M</td> <td>850.347500 M</td> <td>-43.65</td> <td>-30.65</td> </tr> <tr> <td>835,000 M</td> <td>1,000 G</td> <td>1,000 M</td> <td>919.756250 M</td> <td>-42.82</td> <td>-29.82</td> </tr> <tr> <td>1,000 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>1,673000 G</td> <td>-36.40</td> <td>-23.40</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>3,000000 G</td> <td>-38.24</td> <td>-25.24</td> </tr> <tr> <td>7,000 G</td> <td>9,000 G</td> <td>1,000 M</td> <td>7,483500 G</td> <td>-36.30</td> <td>-23.30</td> </tr> </tbody> </table> <p>Date: 29.JUL.2018 14:21:36</p> | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | 30,000 M | 820,000 M | 1,000 M | 850.347500 M | -43.65 | -30.65 | 835,000 M | 1,000 G | 1,000 M | 919.756250 M | -42.82 | -29.82 | 1,000 G | 3,000 G | 1,000 M | 1,673000 G | -36.40 | -23.40 | 3,000 G | 7,000 G | 1,000 M | 3,000000 G | -38.24 | -25.24 | 7,000 G | 9,000 G | 1,000 M | 7,483500 G | -36.30 | -23.30 |
| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30,000 M | 820,000 M | 1,000 M | 814.470000 M | -43.09 | -30.09 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 835,000 M | 1,000 G | 1,000 M | 861.237500 M | -43.03 | -30.03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,000 G | 3,000 G | 1,000 M | 2,509500 G | -38.33 | -25.33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,000 G | 7,000 G | 1,000 M | 3,119000 G | -38.75 | -25.75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7,000 G | 9,000 G | 1,000 M | 7,263500 G | -36.45 | -23.45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30,000 M | 820,000 M | 1,000 M | 850.347500 M | -43.65 | -30.65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 835,000 M | 1,000 G | 1,000 M | 919.756250 M | -42.82 | -29.82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,000 G | 3,000 G | 1,000 M | 1,673000 G | -36.40 | -23.40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,000 G | 7,000 G | 1,000 M | 3,000000 G | -38.24 | -25.24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7,000 G | 9,000 G | 1,000 M | 7,483500 G | -36.30 | -23.30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Highest Channel | Highest Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="1" data-bbox="207 1686 734 1765"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30,000 M</td> <td>820,000 M</td> <td>1,000 M</td> <td>807,932500 M</td> <td>-43.76</td> <td>-30.76</td> </tr> <tr> <td>835,000 M</td> <td>1,000 G</td> <td>1,000 M</td> <td>948.235000 M</td> <td>-42.64</td> <td>-29.64</td> </tr> <tr> <td>1,000 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>2,947000 G</td> <td>-38.82</td> <td>-25.82</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>3,184000 G</td> <td>-38.61</td> <td>-25.61</td> </tr> <tr> <td>7,000 G</td> <td>9,000 G</td> <td>1,000 M</td> <td>7,589000 G</td> <td>-35.97</td> <td>-22.97</td> </tr> </tbody> </table> <p>Date: 29.JUL.2018 09:59:16</p> | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | 30,000 M | 820,000 M | 1,000 M | 807,932500 M | -43.76 | -30.76 | 835,000 M | 1,000 G | 1,000 M | 948.235000 M | -42.64 | -29.64 | 1,000 G | 3,000 G | 1,000 M | 2,947000 G | -38.82 | -25.82 | 3,000 G | 7,000 G | 1,000 M | 3,184000 G | -38.61 | -25.61 | 7,000 G | 9,000 G | 1,000 M | 7,589000 G | -35.97 | -22.97 |  <table border="1" data-bbox="861 1686 1388 1765"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30,000 M</td> <td>820,000 M</td> <td>1,000 M</td> <td>145,162500 M</td> <td>-43.58</td> <td>-30.58</td> </tr> <tr> <td>835,000 M</td> <td>1,000 G</td> <td>1,000 M</td> <td>887,941250 M</td> <td>-42.97</td> <td>-29.97</td> </tr> <tr> <td>1,000 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>2,939500 G</td> <td>-40.34</td> <td>-27.34</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>3,003000 G</td> <td>-38.66</td> <td>-25.66</td> </tr> <tr> <td>7,000 G</td> <td>9,000 G</td> <td>1,000 M</td> <td>7,542500 G</td> <td>-36.31</td> <td>-23.31</td> </tr> </tbody> </table> <p>Date: 29.JUL.2018 14:22:28</p> | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | 30,000 M | 820,000 M | 1,000 M | 145,162500 M | -43.58 | -30.58 | 835,000 M | 1,000 G | 1,000 M | 887,941250 M | -42.97 | -29.97 | 1,000 G | 3,000 G | 1,000 M | 2,939500 G | -40.34 | -27.34 | 3,000 G | 7,000 G | 1,000 M | 3,003000 G | -38.66 | -25.66 | 7,000 G | 9,000 G | 1,000 M | 7,542500 G | -36.31 | -23.31 |
| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30,000 M | 820,000 M | 1,000 M | 807,932500 M | -43.76 | -30.76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 835,000 M | 1,000 G | 1,000 M | 948.235000 M | -42.64 | -29.64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,000 G | 3,000 G | 1,000 M | 2,947000 G | -38.82 | -25.82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,000 G | 7,000 G | 1,000 M | 3,184000 G | -38.61 | -25.61 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7,000 G | 9,000 G | 1,000 M | 7,589000 G | -35.97 | -22.97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30,000 M | 820,000 M | 1,000 M | 145,162500 M | -43.58 | -30.58 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 835,000 M | 1,000 G | 1,000 M | 887,941250 M | -42.97 | -29.97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,000 G | 3,000 G | 1,000 M | 2,939500 G | -40.34 | -27.34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,000 G | 7,000 G | 1,000 M | 3,003000 G | -38.66 | -25.66 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7,000 G | 9,000 G | 1,000 M | 7,542500 G | -36.31 | -23.31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



GSM1900 (GSM)

Lowest Channel

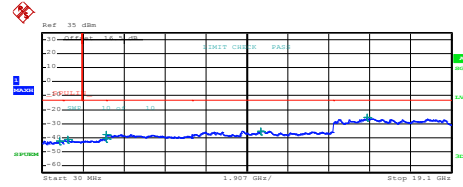


| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAve [dBm] | ΔLimit [dB] |
|------------|-----------|----------|---------------|--------------|-------------|
| 30.0000 M | 1.0000 G | 1.000 M | 111.9655000 M | -33.86 | -29.59 |
| 1.0000 G | 1.845 G | 1.000 M | 1.3622394 G | -41.84 | -28.84 |
| 1.845 G | 3.0000 G | 1.000 M | 2.9885866 G | -40.13 | -27.13 |
| 3.0000 G | 7.0000 G | 1.000 M | 3.0490000 G | -37.52 | -24.52 |
| 7.0000 G | 13.6000 G | 1.000 M | 10.2123500 G | -34.70 | -21.70 |
| 13.6000 G | 19.1000 G | 1.000 M | 15.359313 G | -26.12 | -13.12 |

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GSM1900 (EDGE class 8)

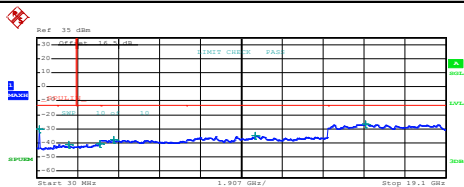
Lowest Channel



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAve [dBm] | ΔLimit [dB] |
|------------|-----------|----------|---------------|--------------|-------------|
| 30.0000 M | 1.0000 G | 1.000 M | 845.2815000 M | -42.59 | -29.59 |
| 1.0000 G | 1.845 G | 1.000 M | 1.2057758 G | -41.19 | -28.19 |
| 1.845 G | 3.0000 G | 1.000 M | 2.9889964 G | -40.83 | -27.83 |
| 3.0000 G | 7.0000 G | 1.000 M | 3.0030000 G | -37.79 | -24.79 |
| 7.0000 G | 13.6000 G | 1.000 M | 10.224925 G | -35.31 | -22.31 |
| 13.6000 G | 19.1000 G | 1.000 M | 15.355125 G | -25.71 | -12.71 |

Date: 29.JUL.2018 14:43:03

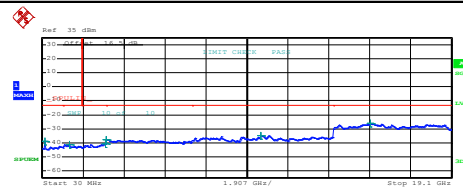
Middle Channel



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAve [dBm] | ΔLimit [dB] |
|------------|-----------|----------|---------------|--------------|-------------|
| 30.0000 M | 1.0000 G | 1.000 M | 141.7925000 M | -30.28 | -17.28 |
| 1.0000 G | 3.0000 G | 1.000 M | 1.2020251 G | -41.19 | -28.19 |
| 1.915 G | 3.0000 G | 1.000 M | 2.9858264 G | -40.69 | -27.69 |
| 3.0000 G | 7.0000 G | 1.000 M | 3.0130000 G | -38.09 | -25.09 |
| 7.0000 G | 13.6000 G | 1.000 M | 10.2123500 G | -34.84 | -21.84 |
| 13.6000 G | 19.1000 G | 1.000 M | 15.359313 G | -26.72 | -13.72 |

Date: 29.JUL.2018 10:45:18

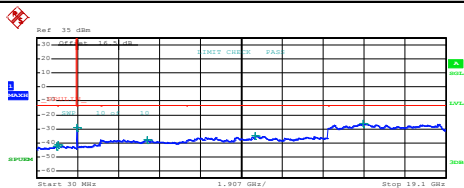
Middle Channel



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAve [dBm] | ΔLimit [dB] |
|------------|-----------|----------|---------------|--------------|-------------|
| 30.0000 M | 1.0000 G | 1.000 M | 141.7925000 M | -38.87 | -25.87 |
| 1.0000 G | 3.0000 G | 1.000 M | 1.2020251 G | -41.84 | -28.84 |
| 1.915 G | 3.0000 G | 1.000 M | 2.982286 G | -40.77 | -27.77 |
| 3.0000 G | 7.0000 G | 1.000 M | 3.0030000 G | -37.74 | -24.74 |
| 7.0000 G | 13.6000 G | 1.000 M | 10.2123500 G | -34.89 | -21.89 |
| 13.6000 G | 19.1000 G | 1.000 M | 15.323583 G | -25.90 | -12.90 |

Date: 29.JUL.2018 14:43:56

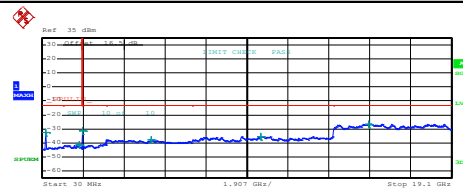
Highest Channel



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAve [dBm] | ΔLimit [dB] |
|------------|-----------|----------|---------------|--------------|-------------|
| 30.0000 M | 1.0000 G | 1.000 M | 934.0282000 M | -42.60 | -29.60 |
| 1.0000 G | 1.845 G | 1.000 M | 1.0213336 G | -41.19 | -28.19 |
| 1.845 G | 3.0000 G | 1.000 M | 1.9132771 G | -39.02 | -26.02 |
| 3.0000 G | 7.0000 G | 1.000 M | 5.1161000 G | -37.90 | -24.90 |
| 7.0000 G | 13.6000 G | 1.000 M | 10.2076000 G | -35.13 | -22.13 |
| 13.6000 G | 19.1000 G | 1.000 M | 15.2449000 G | -26.35 | -13.35 |

Date: 29.JUL.2018 10:46:11

Highest Channel



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAve [dBm] | ΔLimit [dB] |
|------------|-----------|----------|---------------|--------------|-------------|
| 30.0000 M | 1.0000 G | 1.000 M | 171.6288000 M | -35.37 | -19.37 |
| 1.0000 G | 1.845 G | 1.000 M | 1.744023 G | -41.36 | -28.36 |
| 1.845 G | 3.0000 G | 1.000 M | 1.9132771 G | -39.19 | -26.19 |
| 3.0000 G | 7.0000 G | 1.000 M | 5.1170000 G | -37.77 | -24.77 |
| 7.0000 G | 13.6000 G | 1.000 M | 10.216675 G | -35.32 | -22.32 |
| 13.6000 G | 19.1000 G | 1.000 M | 15.252750 G | -26.43 | -13.43 |

Date: 29.JUL.2018 14:44:48



Frequency Stability

| Test Conditions | Middle Channel | GSM850 (GSM) | GSM850 (EDGE class 8) | Limit 2.5ppm |
|------------------|-------------------|-----------------|-----------------------|--------------|
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | | Result |
| 50 | Normal Voltage | 0.0060 | 0.0048 | PASS |
| 40 | Normal Voltage | 0.0024 | 0.0024 | |
| 30 | Normal Voltage | 0.0048 | 0.0036 | |
| 20(Ref.) | Normal Voltage | 0.0000 | 0.0000 | |
| 10 | Normal Voltage | 0.0024 | 0.0024 | |
| 0 | Normal Voltage | 0.0311 | 0.0036 | |
| -10 | Normal Voltage | 0.0036 | 0.0024 | |
| -20 | Normal Voltage | 0.0048 | 0.0012 | |
| -30 | Normal Voltage | 0.0012 | 0.0036 | |
| 20 | Maximum Voltage | 0.0048 | 0.0024 | |
| 20 | Normal Voltage | 0.0024 | 0.0012 | |
| 20 | Battery End Point | 0.0012 | 0.0000 | |



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

Note:

- 1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.40 V. ; Maximum Voltage =4.40 V
- 2. The frequency fundamental emissions stay within the authorized frequency block.

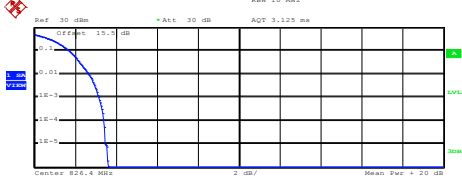
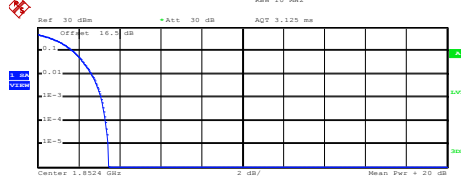
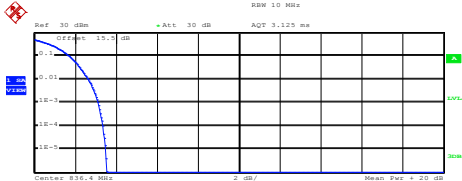
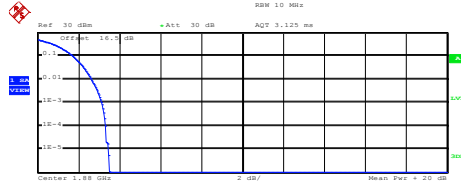
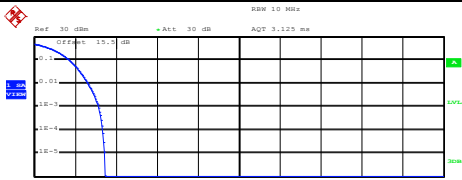
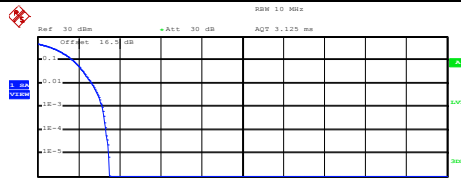


A3. WCDMA

Peak-to-Average Ratio

| Mode | WCDMA Band V | WCDMA Band II | WCDMA Band IV | Limit: 13dB |
|------------|--------------|---------------|---------------|-------------|
| Mod. | RMC 12.2Kbps | RMC 12.2Kbps | RMC 12.2Kbps | Result |
| Lowest CH | 3.16 | 3.12 | 3.20 | PASS |
| Middle CH | 3.12 | 3.12 | 3.16 | |
| Highest CH | 3.16 | 3.16 | 3.20 | |

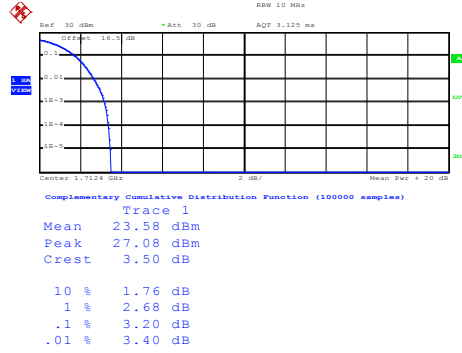


| WCDMA Band V (RMC 12.2Kbps) | WCDMA Band II (RMC 12.2Kbps) | | | | | | | | | | | | | | | | |
|---|------------------------------|---------|-----|---------|------|---------|-------|---------|---|------|---------|-----|---------|------|---------|-------|---------|
| <p style="text-align: center;">Lowest Channel</p>  <p>Center 826.4 MHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.46 dBm Peak 28.07 dBm Crest 3.61 dB</p> <table border="0"> <tr><td>10 %</td><td>1.72 dB</td></tr> <tr><td>1 %</td><td>2.68 dB</td></tr> <tr><td>.1 %</td><td>3.16 dB</td></tr> <tr><td>.01 %</td><td>3.40 dB</td></tr> </table> <p>Date: 29.JUL.2018 11:10:58</p> | 10 % | 1.72 dB | 1 % | 2.68 dB | .1 % | 3.16 dB | .01 % | 3.40 dB | <p style="text-align: center;">Lowest Channel</p>  <p>Center 1.8524 GHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.61 dBm Peak 27.08 dBm Crest 3.47 dB</p> <table border="0"> <tr><td>10 %</td><td>1.72 dB</td></tr> <tr><td>1 %</td><td>2.64 dB</td></tr> <tr><td>.1 %</td><td>3.12 dB</td></tr> <tr><td>.01 %</td><td>3.32 dB</td></tr> </table> <p>Date: 29.JUL.2018 11:42:15</p> | 10 % | 1.72 dB | 1 % | 2.64 dB | .1 % | 3.12 dB | .01 % | 3.32 dB |
| 10 % | 1.72 dB | | | | | | | | | | | | | | | | |
| 1 % | 2.68 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.16 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.40 dB | | | | | | | | | | | | | | | | |
| 10 % | 1.72 dB | | | | | | | | | | | | | | | | |
| 1 % | 2.64 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.12 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.32 dB | | | | | | | | | | | | | | | | |
| <p style="text-align: center;">Middle Channel</p>  <p>Center 830.4 MHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.12 dBm Peak 27.64 dBm Crest 3.53 dB</p> <table border="0"> <tr><td>10 %</td><td>1.72 dB</td></tr> <tr><td>1 %</td><td>2.64 dB</td></tr> <tr><td>.1 %</td><td>3.12 dB</td></tr> <tr><td>.01 %</td><td>3.36 dB</td></tr> </table> <p>Date: 29.JUL.2018 11:11:15</p> | 10 % | 1.72 dB | 1 % | 2.64 dB | .1 % | 3.12 dB | .01 % | 3.36 dB | <p style="text-align: center;">Middle Channel</p>  <p>Center 1.85 GHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.80 dBm Peak 27.29 dBm Crest 3.49 dB</p> <table border="0"> <tr><td>10 %</td><td>1.72 dB</td></tr> <tr><td>1 %</td><td>2.64 dB</td></tr> <tr><td>.1 %</td><td>3.12 dB</td></tr> <tr><td>.01 %</td><td>3.32 dB</td></tr> </table> <p>Date: 29.JUL.2018 11:42:29</p> | 10 % | 1.72 dB | 1 % | 2.64 dB | .1 % | 3.12 dB | .01 % | 3.32 dB |
| 10 % | 1.72 dB | | | | | | | | | | | | | | | | |
| 1 % | 2.64 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.12 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.36 dB | | | | | | | | | | | | | | | | |
| 10 % | 1.72 dB | | | | | | | | | | | | | | | | |
| 1 % | 2.64 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.12 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.32 dB | | | | | | | | | | | | | | | | |
| <p style="text-align: center;">Highest Channel</p>  <p>Center 846.6 MHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.10 dBm Peak 27.57 dBm Crest 3.47 dB</p> <table border="0"> <tr><td>10 %</td><td>1.72 dB</td></tr> <tr><td>1 %</td><td>2.64 dB</td></tr> <tr><td>.1 %</td><td>3.16 dB</td></tr> <tr><td>.01 %</td><td>3.36 dB</td></tr> </table> <p>Date: 29.JUL.2018 11:11:33</p> | 10 % | 1.72 dB | 1 % | 2.64 dB | .1 % | 3.16 dB | .01 % | 3.36 dB | <p style="text-align: center;">Highest Channel</p>  <p>Center 1.9076 GHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.38 dBm Peak 26.87 dBm Crest 3.49 dB</p> <table border="0"> <tr><td>10 %</td><td>1.72 dB</td></tr> <tr><td>1 %</td><td>2.64 dB</td></tr> <tr><td>.1 %</td><td>3.16 dB</td></tr> <tr><td>.01 %</td><td>3.32 dB</td></tr> </table> <p>Date: 29.JUL.2018 11:42:44</p> | 10 % | 1.72 dB | 1 % | 2.64 dB | .1 % | 3.16 dB | .01 % | 3.32 dB |
| 10 % | 1.72 dB | | | | | | | | | | | | | | | | |
| 1 % | 2.64 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.16 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.36 dB | | | | | | | | | | | | | | | | |
| 10 % | 1.72 dB | | | | | | | | | | | | | | | | |
| 1 % | 2.64 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.16 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.32 dB | | | | | | | | | | | | | | | | |



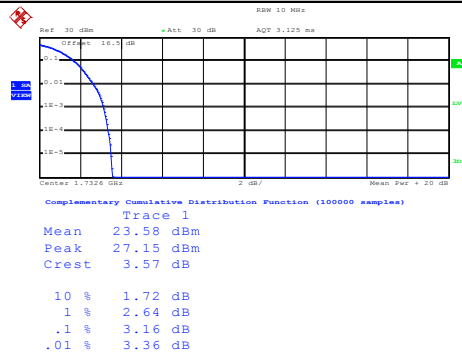
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



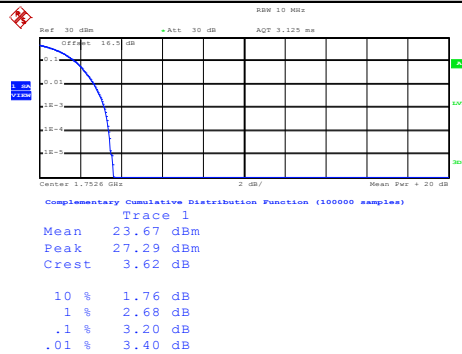
Date: 29.JUL.2018 12:08:39

Middle Channel



Date: 29.JUL.2018 12:08:54

Highest Channel



Date: 29.JUL.2018 12:09:11



26dB Bandwidth

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

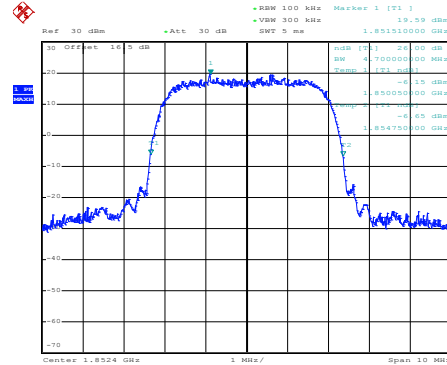
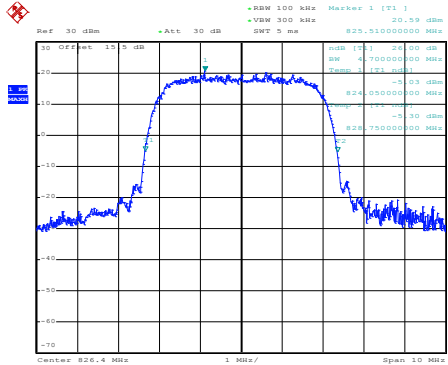


WCDMA Band V (RMC 12.2Kbps)

WCDMA Band II (RMC 12.2Kbps)

Lowest Channel

Lowest Channel

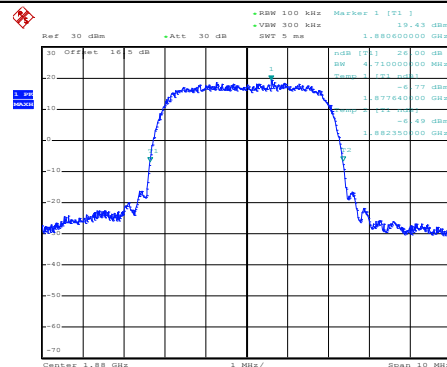
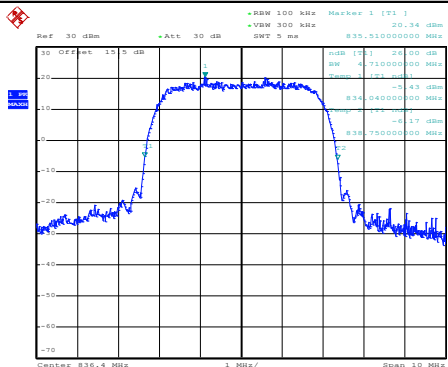


Date: 29.JUL.2018 10:55:54

Date: 29.JUL.2018 11:27:05

Middle Channel

Middle Channel

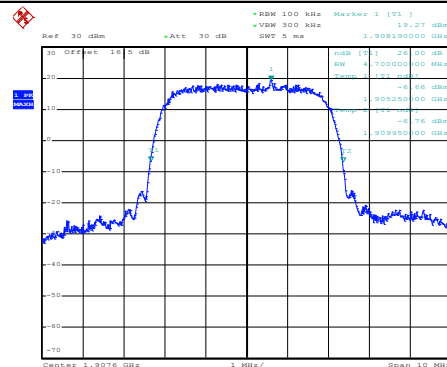
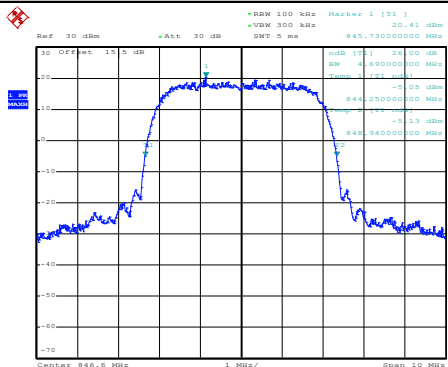


Date: 29.JUL.2018 10:56:33

Date: 29.JUL.2018 11:27:41

Highest Channel

Highest Channel



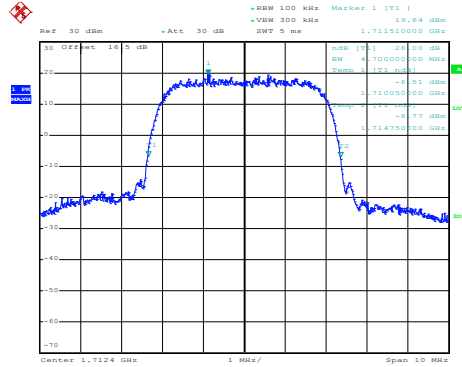
Date: 29.JUL.2018 10:57:07

Date: 29.JUL.2018 11:28:14



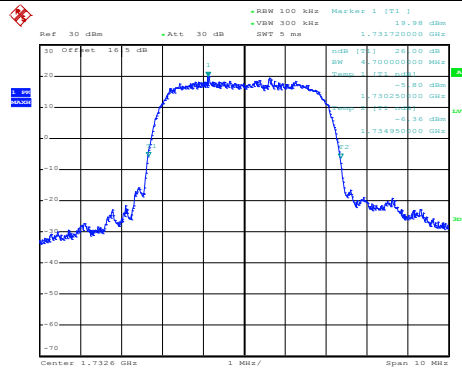
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



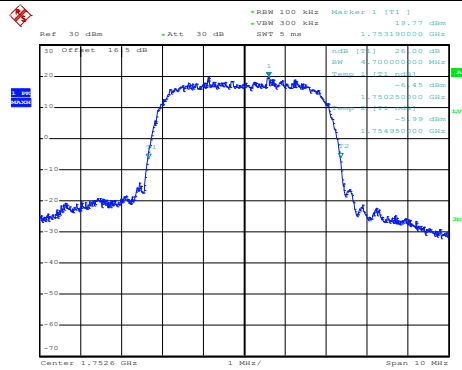
Date: 29.JUL.2018 11:54:46

Middle Channel



Date: 29.JUL.2018 11:55:22

Highest Channel



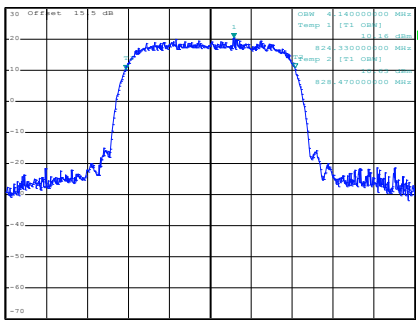
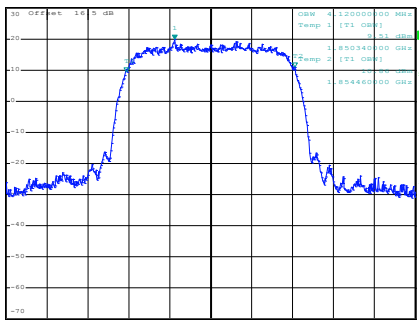
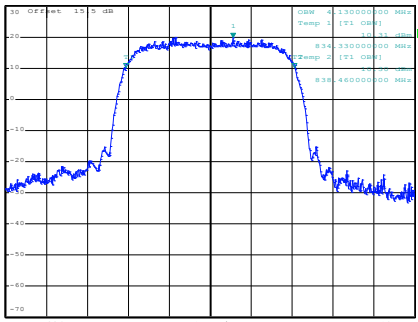
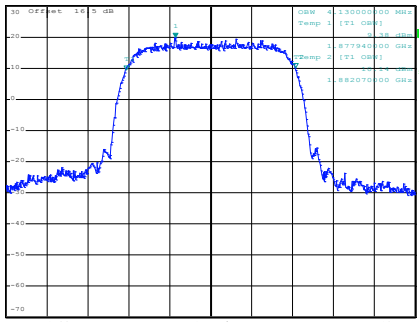
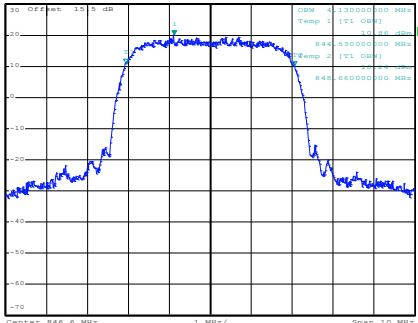
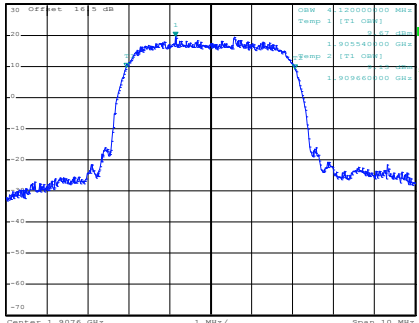
Date: 29.JUL.2018 11:55:56



Occupied Bandwidth

| Mode | WCDMA Band V | WCDMA Band II | WCDMA Band IV |
|------------|--------------|---------------|---------------|
| Mod. | RMC 12.2Kbps | RMC 12.2Kbps | RMC 12.2Kbps |
| Lowest CH | 4.14 | 4.12 | 4.14 |
| Middle CH | 4.13 | 4.13 | 4.12 |
| Highest CH | 4.13 | 4.12 | 4.13 |

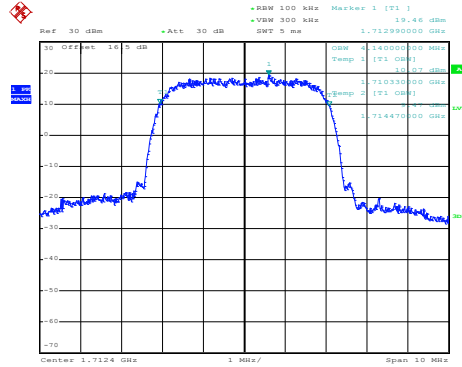


| WCDMA Band V (RMC 12.2Kbps) | WCDMA Band II (RMC 12.2Kbps) |
|---|--|
| <p style="text-align: center;">Lowest Channel</p>  <p>Date: 29.JUL.2018 10:58:00</p> | <p style="text-align: center;">Lowest Channel</p>  <p>Date: 29.JUL.2018 11:29:15</p> |
| <p style="text-align: center;">Middle Channel</p>  <p>Date: 29.JUL.2018 10:58:42</p> | <p style="text-align: center;">Middle Channel</p>  <p>Date: 29.JUL.2018 11:30:17</p> |
| <p style="text-align: center;">Highest Channel</p>  <p>Date: 29.JUL.2018 10:59:31</p> | <p style="text-align: center;">Highest Channel</p>  <p>Date: 29.JUL.2018 11:30:58</p> |



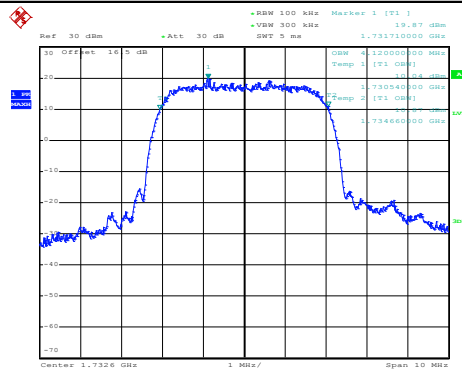
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



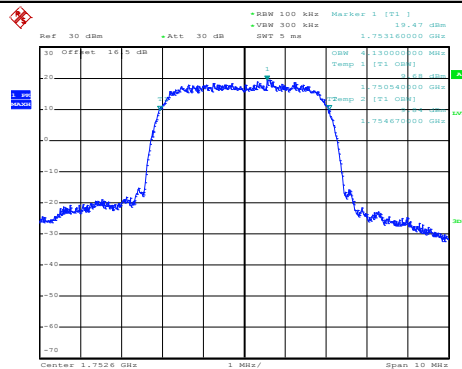
Date: 29.JUL.2018 11:57:22

Middle Channel



Date: 29.JUL.2018 11:58:02

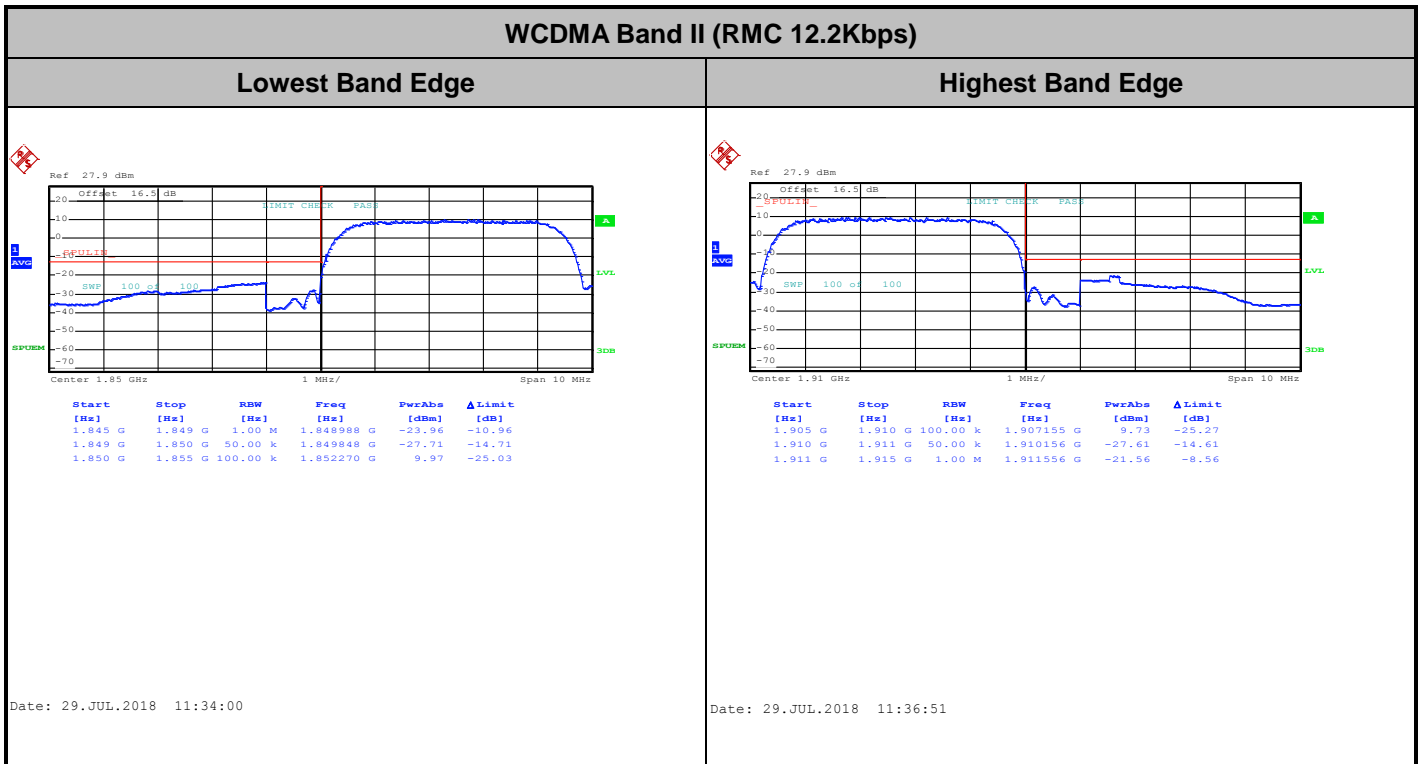
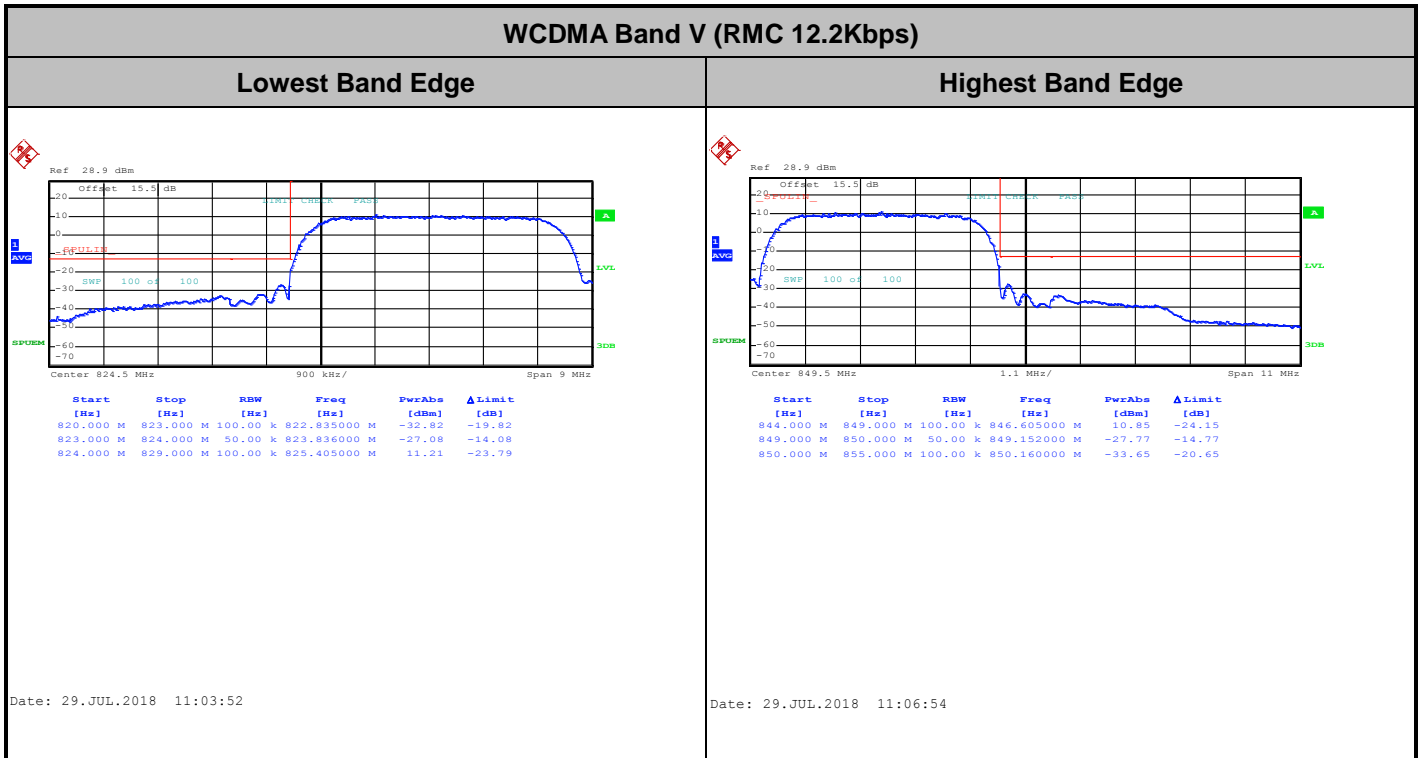
Highest Channel



Date: 29.JUL.2018 11:58:36



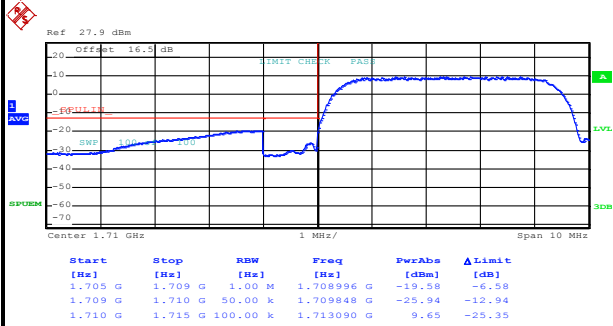
Conducted Band Edge





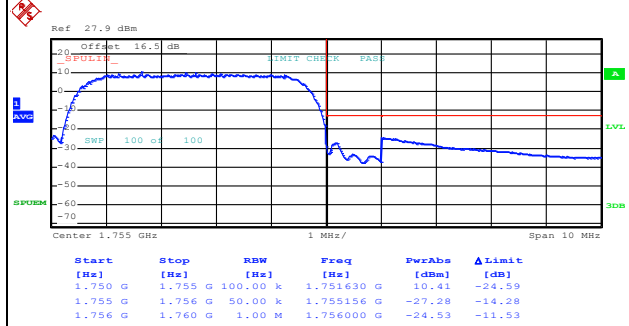
WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge



Date: 29.JUL.2018 12:01:32

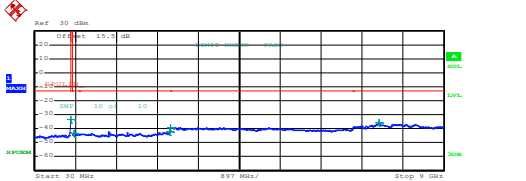
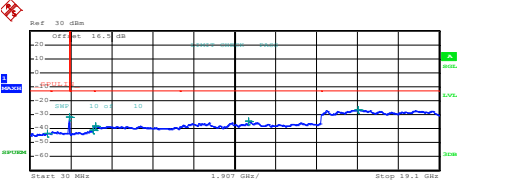
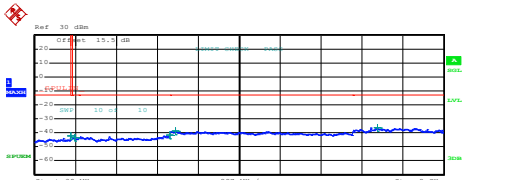
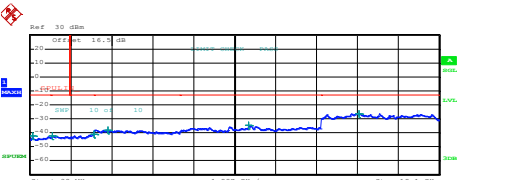
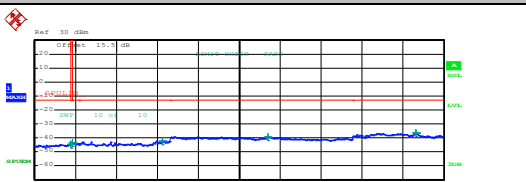
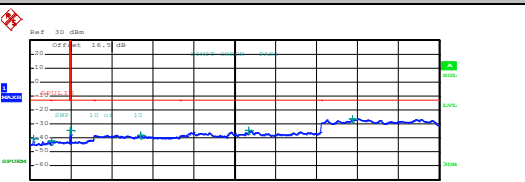
Highest Band Edge



Date: 29.JUL.2018 12:04:26



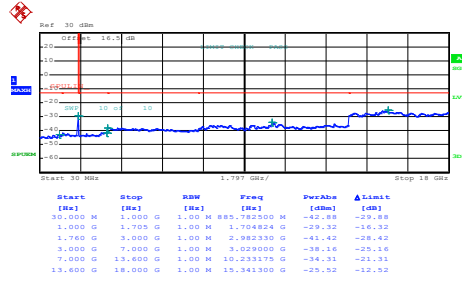
Conducted Spurious Emission

| WCDMA Band V (RMC 12.2Kbps) | WCDMA Band II (RMC 12.2Kbps) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------------|---------|--------------|--------|--------|--------|------|------|------|------|-------|------|----------|-----------|---------|--------------|--------|--------|-----------|---------|---------|--------------|--------|--------|---------|---------|---------|------------|--------|--------|---------|---------|---------|------------|--------|--------|---------|---------|---------|------------|--------|--------|--|-------|------|-----|------|--------|--------|------|------|------|------|-------|------|----------|---------|---------|--------------|--------|--------|---------|---------|---------|------------|--------|--------|---------|---------|---------|------------|--------|--------|---------|---------|---------|------------|--------|--------|---------|----------|---------|-------------|--------|--------|----------|----------|---------|-------------|--------|--------|
| Lowest Channel | Lowest Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="1" data-bbox="239 660 702 739"> <thead> <tr> <th>Start</th> <th>Stop</th> <th>RBW</th> <th>Freq</th> <th>PwrAve</th> <th>ΔLimit</th> </tr> <tr> <th>[Hz]</th> <th>[Hz]</th> <th>[Hz]</th> <th>[Hz]</th> <th>[dBm]</th> <th>[dB]</th> </tr> </thead> <tbody> <tr> <td>30,000 M</td> <td>820,000 M</td> <td>1,000 M</td> <td>818,210000 M</td> <td>-33.50</td> <td>-20.30</td> </tr> <tr> <td>855,000 M</td> <td>1,000 G</td> <td>1,000 M</td> <td>890,017500 M</td> <td>-43.64</td> <td>-30.64</td> </tr> <tr> <td>1,000 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>2,988500 G</td> <td>-42.24</td> <td>-29.24</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>3,013000 G</td> <td>-39.23</td> <td>-26.23</td> </tr> <tr> <td>7,000 G</td> <td>9,000 G</td> <td>1,000 M</td> <td>7,583000 G</td> <td>-35.99</td> <td>-22.99</td> </tr> </tbody> </table> <p>Date: 29.JUL.2018 11:08:35</p> | Start | Stop | RBW | Freq | PwrAve | ΔLimit | [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | 30,000 M | 820,000 M | 1,000 M | 818,210000 M | -33.50 | -20.30 | 855,000 M | 1,000 G | 1,000 M | 890,017500 M | -43.64 | -30.64 | 1,000 G | 3,000 G | 1,000 M | 2,988500 G | -42.24 | -29.24 | 3,000 G | 7,000 G | 1,000 M | 3,013000 G | -39.23 | -26.23 | 7,000 G | 9,000 G | 1,000 M | 7,583000 G | -35.99 | -22.99 |  <table border="1" data-bbox="893 660 1356 739"> <thead> <tr> <th>Start</th> <th>Stop</th> <th>RBW</th> <th>Freq</th> <th>PwrAve</th> <th>ΔLimit</th> </tr> <tr> <th>[Hz]</th> <th>[Hz]</th> <th>[Hz]</th> <th>[Hz]</th> <th>[dBm]</th> <th>[dB]</th> </tr> </thead> <tbody> <tr> <td>30,000 M</td> <td>1,000 G</td> <td>1,000 M</td> <td>842,370000 M</td> <td>-43.10</td> <td>-30.10</td> </tr> <tr> <td>1,000 G</td> <td>3,845 G</td> <td>1,000 M</td> <td>3,844578 G</td> <td>-31.43</td> <td>-18.63</td> </tr> <tr> <td>3,845 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>2,979385 G</td> <td>-40.92</td> <td>-27.92</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>3,064000 G</td> <td>-37.99</td> <td>-24.99</td> </tr> <tr> <td>7,000 G</td> <td>13,600 G</td> <td>1,000 M</td> <td>10,239975 G</td> <td>-34.70</td> <td>-21.70</td> </tr> <tr> <td>13,600 G</td> <td>19,100 G</td> <td>1,000 M</td> <td>15,327688 G</td> <td>-26.47</td> <td>-13.47</td> </tr> </tbody> </table> <p>Date: 29.JUL.2018 11:38:17</p> | Start | Stop | RBW | Freq | PwrAve | ΔLimit | [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | 30,000 M | 1,000 G | 1,000 M | 842,370000 M | -43.10 | -30.10 | 1,000 G | 3,845 G | 1,000 M | 3,844578 G | -31.43 | -18.63 | 3,845 G | 3,000 G | 1,000 M | 2,979385 G | -40.92 | -27.92 | 3,000 G | 7,000 G | 1,000 M | 3,064000 G | -37.99 | -24.99 | 7,000 G | 13,600 G | 1,000 M | 10,239975 G | -34.70 | -21.70 | 13,600 G | 19,100 G | 1,000 M | 15,327688 G | -26.47 | -13.47 |
| Start | Stop | RBW | Freq | PwrAve | ΔLimit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30,000 M | 820,000 M | 1,000 M | 818,210000 M | -33.50 | -20.30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 855,000 M | 1,000 G | 1,000 M | 890,017500 M | -43.64 | -30.64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,000 G | 3,000 G | 1,000 M | 2,988500 G | -42.24 | -29.24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,000 G | 7,000 G | 1,000 M | 3,013000 G | -39.23 | -26.23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7,000 G | 9,000 G | 1,000 M | 7,583000 G | -35.99 | -22.99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Start | Stop | RBW | Freq | PwrAve | ΔLimit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30,000 M | 1,000 G | 1,000 M | 842,370000 M | -43.10 | -30.10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,000 G | 3,845 G | 1,000 M | 3,844578 G | -31.43 | -18.63 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,845 G | 3,000 G | 1,000 M | 2,979385 G | -40.92 | -27.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,000 G | 7,000 G | 1,000 M | 3,064000 G | -37.99 | -24.99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7,000 G | 13,600 G | 1,000 M | 10,239975 G | -34.70 | -21.70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13,600 G | 19,100 G | 1,000 M | 15,327688 G | -26.47 | -13.47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Middle Channel | Middle Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="1" data-bbox="239 1176 702 1254"> <thead> <tr> <th>Start</th> <th>Stop</th> <th>RBW</th> <th>Freq</th> <th>PwrAve</th> <th>ΔLimit</th> </tr> <tr> <th>[Hz]</th> <th>[Hz]</th> <th>[Hz]</th> <th>[Hz]</th> <th>[dBm]</th> <th>[dB]</th> </tr> </thead> <tbody> <tr> <td>30,000 M</td> <td>820,000 M</td> <td>1,000 M</td> <td>818,817500 M</td> <td>-41.96</td> <td>-28.96</td> </tr> <tr> <td>855,000 M</td> <td>1,000 G</td> <td>1,000 M</td> <td>901,830000 M</td> <td>-43.68</td> <td>-30.68</td> </tr> <tr> <td>1,000 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>2,994500 G</td> <td>-41.45</td> <td>-28.45</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>3,110000 G</td> <td>-38.85</td> <td>-25.85</td> </tr> <tr> <td>7,000 G</td> <td>9,000 G</td> <td>1,000 M</td> <td>7,395000 G</td> <td>-36.51</td> <td>-23.51</td> </tr> </tbody> </table> <p>Date: 29.JUL.2018 11:09:29</p> | Start | Stop | RBW | Freq | PwrAve | ΔLimit | [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | 30,000 M | 820,000 M | 1,000 M | 818,817500 M | -41.96 | -28.96 | 855,000 M | 1,000 G | 1,000 M | 901,830000 M | -43.68 | -30.68 | 1,000 G | 3,000 G | 1,000 M | 2,994500 G | -41.45 | -28.45 | 3,000 G | 7,000 G | 1,000 M | 3,110000 G | -38.85 | -25.85 | 7,000 G | 9,000 G | 1,000 M | 7,395000 G | -36.51 | -23.51 |  <table border="1" data-bbox="893 1176 1356 1254"> <thead> <tr> <th>Start</th> <th>Stop</th> <th>RBW</th> <th>Freq</th> <th>PwrAve</th> <th>ΔLimit</th> </tr> <tr> <th>[Hz]</th> <th>[Hz]</th> <th>[Hz]</th> <th>[Hz]</th> <th>[dBm]</th> <th>[dB]</th> </tr> </thead> <tbody> <tr> <td>30,000 M</td> <td>1,000 G</td> <td>1,000 M</td> <td>142,762500 M</td> <td>-42.37</td> <td>-29.37</td> </tr> <tr> <td>1,000 G</td> <td>3,845 G</td> <td>1,000 M</td> <td>3,008950 G</td> <td>-42.43</td> <td>-29.43</td> </tr> <tr> <td>3,845 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>2,992676 G</td> <td>-41.03</td> <td>-28.03</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>3,068000 G</td> <td>-38.17</td> <td>-25.17</td> </tr> <tr> <td>7,000 G</td> <td>13,600 G</td> <td>1,000 M</td> <td>10,239700 G</td> <td>-34.19</td> <td>-21.19</td> </tr> <tr> <td>13,600 G</td> <td>19,100 G</td> <td>1,000 M</td> <td>15,355875 G</td> <td>-26.25</td> <td>-13.25</td> </tr> </tbody> </table> <p>Date: 29.JUL.2018 11:39:59</p> | Start | Stop | RBW | Freq | PwrAve | ΔLimit | [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | 30,000 M | 1,000 G | 1,000 M | 142,762500 M | -42.37 | -29.37 | 1,000 G | 3,845 G | 1,000 M | 3,008950 G | -42.43 | -29.43 | 3,845 G | 3,000 G | 1,000 M | 2,992676 G | -41.03 | -28.03 | 3,000 G | 7,000 G | 1,000 M | 3,068000 G | -38.17 | -25.17 | 7,000 G | 13,600 G | 1,000 M | 10,239700 G | -34.19 | -21.19 | 13,600 G | 19,100 G | 1,000 M | 15,355875 G | -26.25 | -13.25 |
| Start | Stop | RBW | Freq | PwrAve | ΔLimit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30,000 M | 820,000 M | 1,000 M | 818,817500 M | -41.96 | -28.96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 855,000 M | 1,000 G | 1,000 M | 901,830000 M | -43.68 | -30.68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,000 G | 3,000 G | 1,000 M | 2,994500 G | -41.45 | -28.45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,000 G | 7,000 G | 1,000 M | 3,110000 G | -38.85 | -25.85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7,000 G | 9,000 G | 1,000 M | 7,395000 G | -36.51 | -23.51 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Start | Stop | RBW | Freq | PwrAve | ΔLimit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30,000 M | 1,000 G | 1,000 M | 142,762500 M | -42.37 | -29.37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,000 G | 3,845 G | 1,000 M | 3,008950 G | -42.43 | -29.43 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,845 G | 3,000 G | 1,000 M | 2,992676 G | -41.03 | -28.03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,000 G | 7,000 G | 1,000 M | 3,068000 G | -38.17 | -25.17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7,000 G | 13,600 G | 1,000 M | 10,239700 G | -34.19 | -21.19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13,600 G | 19,100 G | 1,000 M | 15,355875 G | -26.25 | -13.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Highest Channel | Highest Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="1" data-bbox="239 1691 702 1769"> <thead> <tr> <th>Start</th> <th>Stop</th> <th>RBW</th> <th>Freq</th> <th>PwrAve</th> <th>ΔLimit</th> </tr> <tr> <th>[Hz]</th> <th>[Hz]</th> <th>[Hz]</th> <th>[Hz]</th> <th>[dBm]</th> <th>[dB]</th> </tr> </thead> <tbody> <tr> <td>30,000 M</td> <td>820,000 M</td> <td>1,000 M</td> <td>812,830000 M</td> <td>-44.67</td> <td>-31.67</td> </tr> <tr> <td>855,000 M</td> <td>1,000 G</td> <td>1,000 M</td> <td>855,761250 M</td> <td>-43.62</td> <td>-30.62</td> </tr> <tr> <td>1,000 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>2,993500 G</td> <td>-42.02</td> <td>-29.02</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>3,136000 G</td> <td>-39.04</td> <td>-26.04</td> </tr> <tr> <td>7,000 G</td> <td>9,000 G</td> <td>1,000 M</td> <td>8,395000 G</td> <td>-36.61</td> <td>-23.61</td> </tr> </tbody> </table> <p>Date: 29.JUL.2018 11:10:20</p> | Start | Stop | RBW | Freq | PwrAve | ΔLimit | [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | 30,000 M | 820,000 M | 1,000 M | 812,830000 M | -44.67 | -31.67 | 855,000 M | 1,000 G | 1,000 M | 855,761250 M | -43.62 | -30.62 | 1,000 G | 3,000 G | 1,000 M | 2,993500 G | -42.02 | -29.02 | 3,000 G | 7,000 G | 1,000 M | 3,136000 G | -39.04 | -26.04 | 7,000 G | 9,000 G | 1,000 M | 8,395000 G | -36.61 | -23.61 |  <table border="1" data-bbox="893 1691 1356 1769"> <thead> <tr> <th>Start</th> <th>Stop</th> <th>RBW</th> <th>Freq</th> <th>PwrAve</th> <th>ΔLimit</th> </tr> <tr> <th>[Hz]</th> <th>[Hz]</th> <th>[Hz]</th> <th>[Hz]</th> <th>[dBm]</th> <th>[dB]</th> </tr> </thead> <tbody> <tr> <td>30,000 M</td> <td>1,000 G</td> <td>1,000 M</td> <td>168,750000 M</td> <td>-40.51</td> <td>-27.51</td> </tr> <tr> <td>1,000 G</td> <td>3,845 G</td> <td>1,000 M</td> <td>3,038025 G</td> <td>-42.23</td> <td>-29.23</td> </tr> <tr> <td>3,845 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>2,993271 G</td> <td>-34.81</td> <td>-21.81</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>3,197000 G</td> <td>-38.05</td> <td>-25.05</td> </tr> <tr> <td>7,000 G</td> <td>13,600 G</td> <td>1,000 M</td> <td>10,224925 G</td> <td>-34.90</td> <td>-21.90</td> </tr> <tr> <td>13,600 G</td> <td>19,100 G</td> <td>1,000 M</td> <td>15,048500 G</td> <td>-26.23</td> <td>-13.23</td> </tr> </tbody> </table> <p>Date: 29.JUL.2018 11:41:06</p> | Start | Stop | RBW | Freq | PwrAve | ΔLimit | [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | 30,000 M | 1,000 G | 1,000 M | 168,750000 M | -40.51 | -27.51 | 1,000 G | 3,845 G | 1,000 M | 3,038025 G | -42.23 | -29.23 | 3,845 G | 3,000 G | 1,000 M | 2,993271 G | -34.81 | -21.81 | 3,000 G | 7,000 G | 1,000 M | 3,197000 G | -38.05 | -25.05 | 7,000 G | 13,600 G | 1,000 M | 10,224925 G | -34.90 | -21.90 | 13,600 G | 19,100 G | 1,000 M | 15,048500 G | -26.23 | -13.23 |
| Start | Stop | RBW | Freq | PwrAve | ΔLimit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30,000 M | 820,000 M | 1,000 M | 812,830000 M | -44.67 | -31.67 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 855,000 M | 1,000 G | 1,000 M | 855,761250 M | -43.62 | -30.62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,000 G | 3,000 G | 1,000 M | 2,993500 G | -42.02 | -29.02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,000 G | 7,000 G | 1,000 M | 3,136000 G | -39.04 | -26.04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7,000 G | 9,000 G | 1,000 M | 8,395000 G | -36.61 | -23.61 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Start | Stop | RBW | Freq | PwrAve | ΔLimit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| [Hz] | [Hz] | [Hz] | [Hz] | [dBm] | [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30,000 M | 1,000 G | 1,000 M | 168,750000 M | -40.51 | -27.51 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,000 G | 3,845 G | 1,000 M | 3,038025 G | -42.23 | -29.23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,845 G | 3,000 G | 1,000 M | 2,993271 G | -34.81 | -21.81 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,000 G | 7,000 G | 1,000 M | 3,197000 G | -38.05 | -25.05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7,000 G | 13,600 G | 1,000 M | 10,224925 G | -34.90 | -21.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13,600 G | 19,100 G | 1,000 M | 15,048500 G | -26.23 | -13.23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



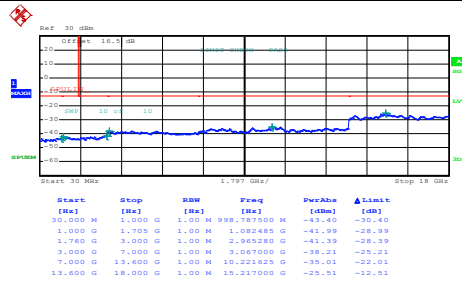
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



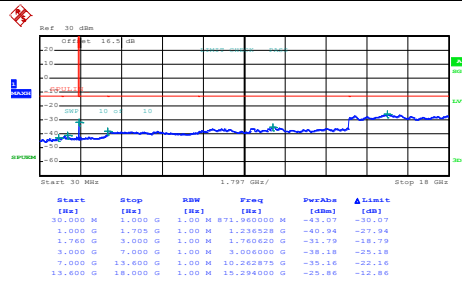
Date: 29.JUL.2018 12:06:28

Middle Channel



Date: 29.JUL.2018 12:07:22

Highest Channel



Date: 29.JUL.2018 12:08:17



Frequency Stability

| Test Conditions | Middle Channel | WCDMA Band V (RMC 12.2Kbps) | Limit 2.5ppm |
|------------------|-------------------|--------------------------------|-----------------|
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0012 | PASS |
| 40 | Normal Voltage | 0.0012 | |
| 30 | Normal Voltage | 0.0036 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0024 | |
| 0 | Normal Voltage | 0.0012 | |
| -10 | Normal Voltage | 0.0036 | |
| -20 | Normal Voltage | 0.0000 | |
| -30 | Normal Voltage | 0.0012 | |
| 20 | Maximum Voltage | 0.0024 | |
| 20 | Normal Voltage | 0.0012 | |
| 20 | Battery End Point | 0.0132 | |



| Test Conditions | Middle Channel | WCDMA Band II (RMC 12.2Kbps) | Limit Note 2. |
|------------------|-------------------|---------------------------------|------------------|
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0021 | PASS |
| 40 | Normal Voltage | 0.0005 | |
| 30 | Normal Voltage | 0.0005 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0032 | |
| 0 | Normal Voltage | 0.0016 | |
| -10 | Normal Voltage | 0.0021 | |
| -20 | Normal Voltage | 0.0021 | |
| -30 | Normal Voltage | 0.0011 | |
| 20 | Maximum Voltage | 0.0016 | |
| 20 | Normal Voltage | 0.0027 | |
| 20 | Battery End Point | 0.0016 | |



| Test Conditions | Middle Channel | WCDMA Band IV (RMC 12.2Kbps) | Limit Note 2. |
|------------------|-------------------|---------------------------------|------------------|
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0012 | PASS |
| 40 | Normal Voltage | 0.0029 | |
| 30 | Normal Voltage | 0.0012 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0017 | |
| 0 | Normal Voltage | 0.0012 | |
| -10 | Normal Voltage | 0.0023 | |
| -20 | Normal Voltage | 0.0017 | |
| -30 | Normal Voltage | 0.0000 | |
| 20 | Maximum Voltage | 0.0006 | |
| 20 | Normal Voltage | 0.0017 | |
| 20 | Battery End Point | 0.0012 | |

Note:

- 1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.40 V. ; Maximum Voltage =4.40 V
- 2. The frequency fundamental emissions stay within the authorized frequency block.



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

ERP/EIRP

<For LAT Antenna>

| Channel | Mode | Conducted | | ERP | |
|---------|---------------------|-------------|---------------|----------|--------|
| | | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest | GSM850 | 32.51 | 1.7824 | 27.79 | 0.6016 |
| Middle | GSM | 32.71 | 1.8664 | 27.99 | 0.6299 |
| Highest | GT - LC = -2.567 dB | 32.60 | 1.8197 | 27.88 | 0.6142 |
| Lowest | GSM850 | 26.74 | 0.4721 | 22.02 | 0.1593 |
| Middle | EDGE class 8 | 26.17 | 0.4140 | 21.45 | 0.1397 |
| Highest | GT - LC = -2.567 dB | 25.78 | 0.3784 | 21.06 | 0.1277 |
| Lowest | WCDMA Band V | 23.43 | 0.2203 | 18.71 | 0.0744 |
| Middle | RMC 12.2Kbps | 23.22 | 0.2099 | 18.50 | 0.0708 |
| Highest | GT - LC = -2.567 dB | 23.14 | 0.2061 | 18.42 | 0.0696 |
| Limit | ERP < 7W | Result | | PASS | |

| Channel | Mode | Conducted | | EIRP | |
|---------|---------------------|-------------|---------------|-----------|---------|
| | | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest | GSM1900 | 29.40 | 0.8710 | 29.05 | 0.8041 |
| Middle | GSM | 29.54 | 0.8995 | 29.19 | 0.8304 |
| Highest | GT - LC = -0.347 dB | 29.67 | 0.9268 | 29.32 | 0.8557 |
| Lowest | GSM1900 | 24.75 | 0.2985 | 24.40 | 0.2756 |
| Middle | EDGE class 8 | 24.66 | 0.2924 | 24.31 | 0.2700 |
| Highest | GT - LC = -0.347 dB | 24.86 | 0.3062 | 24.51 | 0.2827 |
| Lowest | WCDMA Band II | 24.41 | 0.2761 | 24.06 | 0.2549 |
| Middle | RMC 12.2Kbps | 24.29 | 0.2685 | 23.94 | 0.2479 |
| Highest | GT - LC = -0.347 dB | 23.94 | 0.2477 | 23.59 | 0.2287 |
| Limit | EIRP < 2W | Result | | PASS | |

| Channel | Mode | Conducted | | EIRP | |
|---------|-------------------|-------------|---------------|-----------|---------|
| | | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest | WCDMA Band IV | 24.14 | 0.2594 | 23.14 | 0.2061 |
| Middle | RMC 12.2Kbps | 24.13 | 0.2588 | 23.13 | 0.2056 |
| Highest | (GT - LC = -1 dB) | 24.09 | 0.2564 | 23.09 | 0.2037 |
| Limit | EIRP < 1W | Result | | PASS | |



<For UAT Antenna>

| Channel | Mode | Conducted | | ERP | |
|---------|--------------------|-------------|---------------|----------|--------|
| | | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest | WCDMA Band V | 23.43 | 0.2203 | 18.53 | 0.0713 |
| Middle | RMC 12.2Kbps | 23.22 | 0.2099 | 18.32 | 0.0679 |
| Highest | GT - LC = -2.75 dB | 23.14 | 0.2061 | 18.24 | 0.0667 |
| Limit | ERP < 7W | Result | | PASS | |



Radiated Spurious Emission

<LAT Antenna>

<EUT with SIM 2> Part22H GSM 850

| GSM 850 | | | | | | | | | |
|---------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 1648 | -58.22 | -13 | -45.22 | -70.74 | -63.61 | 1.23 | 8.76 | H |
| | 2472 | -44.44 | -13 | -31.44 | -59.77 | -51.33 | 1.44 | 10.48 | H |
| | 3696 | -57.92 | -13 | -44.92 | -74.99 | -66.08 | 1.97 | 12.28 | H |
| | | | | | | | | | H |
| | 1648 | -60.36 | -13 | -47.36 | -70.59 | -65.75 | 1.23 | 8.76 | V |
| | 2472 | -47.62 | -13 | -34.62 | -62.34 | -54.51 | 1.44 | 10.48 | V |
| | 3696 | -59.23 | -13 | -46.23 | -75.85 | -67.39 | 1.97 | 12.28 | V |
| | | | | | | | | | V |
| Middle | 1672 | -58.73 | -13 | -45.73 | -71.49 | -64.20 | 1.24 | 8.85 | H |
| | 2512 | -42.46 | -13 | -29.46 | -57.61 | -49.38 | 1.44 | 10.51 | H |
| | 3344 | -59.19 | -13 | -46.19 | -76.13 | -67.23 | 1.74 | 11.93 | H |
| | 4184 | -57.36 | -13 | -44.36 | -75.43 | -65.24 | 2.07 | 12.10 | H |
| | | | | | | | | | H |
| | 1672 | -62.24 | -13 | -49.24 | -72.58 | -67.71 | 1.24 | 8.85 | V |
| | 2512 | -43.27 | -13 | -30.27 | -57.97 | -50.19 | 1.44 | 10.51 | V |
| | 3344 | -58.50 | -13 | -45.50 | -74.98 | -66.54 | 1.74 | 11.93 | V |
| | 4184 | -57.51 | -13 | -44.51 | -75.46 | -65.39 | 2.07 | 12.10 | V |
| | | | | | | | | | V |
| Highest | 1696 | -60.82 | -13 | -47.82 | -74.02 | -66.37 | 1.24 | 8.94 | H |
| | 2544 | -43.12 | -13 | -30.12 | -58.15 | -50.06 | 1.44 | 10.54 | H |
| | 4248 | -56.79 | -13 | -43.79 | -75.35 | -64.69 | 2.05 | 12.10 | H |
| | | | | | | | | | H |
| | 1696 | -62.87 | -13 | -49.87 | -73.41 | -68.42 | 1.24 | 8.94 | V |
| | 2544 | -44.51 | -13 | -31.51 | -59.2 | -51.45 | 1.44 | 10.54 | V |
| | 4248 | -56.18 | -13 | -43.18 | -74.54 | -64.08 | 2.05 | 12.10 | V |
| | | | | | | | | | V |

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



<EUT with SIM 2> Part22H EDGE 850

| EDGE 850 | | | | | | | | | |
|----------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 1648 | -63.12 | -13 | -50.12 | -75.64 | -68.51 | 1.23 | 8.76 | H |
| | 2472 | -59.67 | -13 | -46.67 | -75 | -66.56 | 1.44 | 10.48 | H |
| | 3296 | -59.67 | -13 | -46.67 | -76.74 | -67.61 | 1.70 | 11.79 | H |
| | | | | | | | | | H |
| | 1648 | -65.64 | -13 | -52.64 | -75.87 | -71.03 | 1.23 | 8.76 | V |
| | 2472 | -61.64 | -13 | -48.64 | -76.36 | -68.53 | 1.44 | 10.48 | V |
| | 3296 | -60.21 | -13 | -47.21 | -76.83 | -68.15 | 1.70 | 11.79 | V |
| | | | | | | | | | V |
| Middle | 1672 | -62.61 | -13 | -49.61 | -75.37 | -68.08 | 1.24 | 8.85 | H |
| | 2512 | -56.98 | -13 | -43.98 | -72.13 | -63.90 | 1.44 | 10.51 | H |
| | 3344 | -59.96 | -13 | -46.96 | -76.9 | -68.00 | 1.74 | 11.93 | H |
| | | | | | | | | | H |
| | 1672 | -65.18 | -13 | -52.18 | -75.52 | -70.65 | 1.24 | 8.85 | V |
| | 2512 | -57.27 | -13 | -44.27 | -71.97 | -64.19 | 1.44 | 10.51 | V |
| | 3344 | -60.39 | -13 | -47.39 | -76.87 | -68.43 | 1.74 | 11.93 | V |
| | | | | | | | | | V |
| Highest | 1697 | -62.64 | -13 | -49.64 | -75.84 | -68.19 | 1.24 | 8.95 | H |
| | 2544 | -58.60 | -13 | -45.60 | -73.63 | -65.54 | 1.44 | 10.54 | H |
| | 3395 | -60.09 | -13 | -47.09 | -76.82 | -68.24 | 1.78 | 12.09 | H |
| | | | | | | | | | H |
| | 1697 | -65.19 | -13 | -52.19 | -75.73 | -70.74 | 1.24 | 8.95 | V |
| | 2544 | -60.00 | -13 | -47.00 | -74.69 | -66.94 | 1.44 | 10.54 | V |
| | 3395 | -60.94 | -13 | -47.94 | -77.21 | -69.09 | 1.78 | 12.09 | V |
| | | | | | | | | | V |

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



<EUT with SIM 2> Part22H WCDMA 850

| WCDMA 850 | | | | | | | | | |
|-----------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 1648 | -63.57 | -13 | -50.57 | -76.09 | -68.96 | 1.23 | 8.76 | H |
| | 2480 | -57.29 | -13 | -44.29 | -72.62 | -64.19 | 1.44 | 10.48 | H |
| | 3696 | -59.11 | -13 | -46.11 | -76.97 | -67.27 | 1.97 | 12.28 | H |
| | | | | | | | | | H |
| | 1648 | -65.94 | -13 | -52.94 | -76.17 | -71.33 | 1.23 | 8.76 | V |
| | 2480 | -59.75 | -13 | -46.75 | -74.47 | -66.65 | 1.44 | 10.48 | V |
| | 3696 | -59.16 | -13 | -46.16 | -76.42 | -67.32 | 1.97 | 12.28 | V |
| | | | | | | | | | V |
| Middle | 1672 | -62.94 | -13 | -49.94 | -75.7 | -68.41 | 1.24 | 8.85 | H |
| | 2512 | -61.51 | -13 | -48.51 | -76.66 | -68.43 | 1.44 | 10.51 | H |
| | 3344 | -60.13 | -13 | -47.13 | -77.07 | -68.17 | 1.74 | 11.93 | H |
| | | | | | | | | | H |
| | 1672 | -65.28 | -13 | -52.28 | -75.62 | -70.75 | 1.24 | 8.85 | V |
| | 2512 | -60.45 | -13 | -47.45 | -75.15 | -67.37 | 1.44 | 10.51 | V |
| | 3344 | -60.61 | -13 | -47.61 | -77.09 | -68.65 | 1.74 | 11.93 | V |
| | | | | | | | | | V |
| Highest | 1696 | -61.46 | -13 | -48.46 | -74.66 | -67.01 | 1.24 | 8.94 | H |
| | 2544 | -59.35 | -13 | -46.35 | -74.38 | -66.29 | 1.44 | 10.54 | H |
| | 3393 | -60.23 | -13 | -47.23 | -76.96 | -68.38 | 1.78 | 12.08 | H |
| | | | | | | | | | H |
| | 1696 | -65.06 | -13 | -52.06 | -75.6 | -70.61 | 1.24 | 8.94 | V |
| | 2544 | -61.42 | -13 | -48.42 | -76.11 | -68.36 | 1.44 | 10.54 | V |
| | 3393 | -60.61 | -13 | -47.61 | -76.88 | -68.76 | 1.78 | 12.08 | V |
| | | | | | | | | | V |

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



<EUT with SIM 1> Part24E GSM 1900

| GSM 1900 | | | | | | | | | |
|----------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 3700 | -49.11 | -13 | -36.11 | -66.97 | -59.42 | 1.97 | 12.28 | H |
| | 5548 | -39.40 | -13 | -26.40 | -60.69 | -49.52 | 2.14 | 12.27 | H |
| | 7403 | -52.31 | -13 | -39.31 | -77.07 | -60.31 | 2.17 | 10.17 | H |
| | | | | | | | | | H |
| | 3700 | -56.36 | -13 | -43.36 | -73.62 | -66.67 | 1.97 | 12.28 | V |
| | 5548 | -39.66 | -13 | -26.66 | -61.19 | -49.78 | 2.14 | 12.27 | V |
| | 7403 | -53.12 | -13 | -40.12 | -76.94 | -61.12 | 2.17 | 10.17 | V |
| | | | | | | | | | V |
| Middle | 3763 | -48.18 | -13 | -35.18 | -65.84 | -58.42 | 2.01 | 12.24 | H |
| | 5639 | -37.30 | -13 | -24.30 | -58.47 | -47.57 | 2.12 | 12.39 | H |
| | 7522 | -51.48 | -13 | -38.48 | -76.97 | -59.44 | 2.11 | 10.08 | H |
| | | | | | | | | | H |
| | 3763 | -54.94 | -13 | -41.94 | -72.1 | -65.18 | 2.01 | 12.24 | V |
| | 5639 | -38.29 | -13 | -25.29 | -59.65 | -48.56 | 2.12 | 12.39 | V |
| | 7522 | -52.42 | -13 | -39.42 | -77.15 | -60.38 | 2.11 | 10.08 | V |
| | | | | | | | | | V |
| Highest | 3819 | -48.13 | -13 | -35.13 | -65.75 | -58.30 | 2.04 | 12.21 | H |
| | 5730 | -35.25 | -13 | -22.25 | -56.47 | -45.67 | 2.10 | 12.52 | H |
| | 7641 | -51.58 | -13 | -38.58 | -76.79 | -59.97 | 2.11 | 10.51 | H |
| | | | | | | | | | H |
| | 3819 | -54.26 | -13 | -41.26 | -71.44 | -64.43 | 2.04 | 12.21 | V |
| | 5730 | -49.31 | -13 | -36.31 | -70.66 | -59.73 | 2.10 | 12.52 | V |
| | 7641 | -52.20 | -13 | -39.20 | -76.99 | -60.59 | 2.11 | 10.51 | V |
| | | | | | | | | | V |

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



<EUT with SIM 1> Part24E EDGE 1900

| EDGE 1900 | | | | | | | | | |
|-----------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 3700 | -50.86 | -13 | -37.86 | -68.72 | -61.17 | 1.97 | 12.28 | H |
| | 5548 | -43.46 | -13 | -30.46 | -64.75 | -53.58 | 2.14 | 12.27 | H |
| | 7403 | -52.34 | -13 | -39.34 | -77.1 | -60.34 | 2.17 | 10.17 | H |
| | | | | | | | | | H |
| | 3700 | -57.68 | -13 | -44.68 | -74.94 | -67.99 | 1.97 | 12.28 | V |
| | 5548 | -44.58 | -13 | -31.58 | -66.11 | -54.70 | 2.14 | 12.27 | V |
| | 7403 | -53.19 | -13 | -40.19 | -77.01 | -61.19 | 2.17 | 10.17 | V |
| | | | | | | | | | V |
| Middle | 3763 | -49.68 | -13 | -36.68 | -67.34 | -59.92 | 2.01 | 12.24 | H |
| | 5639 | -44.82 | -13 | -31.82 | -65.99 | -55.09 | 2.12 | 12.39 | H |
| | 7520 | -51.76 | -13 | -38.76 | -77.25 | -59.72 | 2.11 | 10.07 | H |
| | | | | | | | | | H |
| | 3763 | -56.32 | -13 | -43.32 | -73.48 | -66.56 | 2.01 | 12.24 | V |
| | 5639 | -45.03 | -13 | -32.03 | -66.39 | -55.30 | 2.12 | 12.39 | V |
| | 7520 | -52.51 | -13 | -39.51 | -77.24 | -60.47 | 2.11 | 10.07 | V |
| | | | | | | | | | V |
| Highest | 3763 | -48.03 | -13 | -35.03 | -65.69 | -58.27 | 2.01 | 12.24 | H |
| | 5639 | -47.56 | -13 | -34.56 | -68.73 | -57.83 | 2.12 | 12.39 | H |
| | 7641 | -51.90 | -13 | -38.90 | -77.11 | -60.29 | 2.11 | 10.51 | H |
| | | | | | | | | | H |
| | 3763 | -57.54 | -13 | -44.54 | -74.7 | -67.78 | 2.01 | 12.24 | V |
| | 5639 | -48.67 | -13 | -35.67 | -70.03 | -58.94 | 2.12 | 12.39 | V |
| | 7641 | -52.33 | -13 | -39.33 | -77.12 | -60.72 | 2.11 | 10.51 | V |
| | | | | | | | | | V |

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



<EUT with SIM 1> Part24E WCDMA 1900

| WCDMA 1900 | | | | | | | | | |
|------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 3707 | -42.99 | -13 | -29.99 | -60.79 | -53.29 | 1.98 | 12.28 | H |
| | 5562 | -44.55 | -13 | -31.55 | -65.79 | -54.70 | 2.14 | 12.29 | H |
| | 7410 | -52.38 | -13 | -39.38 | -77.28 | -60.37 | 2.17 | 10.16 | H |
| | | | | | | | | | H |
| | 3707 | -51.83 | -13 | -38.83 | -69.06 | -62.13 | 1.98 | 12.28 | V |
| | 5562 | -50.94 | -13 | -37.94 | -72.41 | -61.09 | 2.14 | 12.29 | V |
| | 7410 | -53.33 | -13 | -40.33 | -77.31 | -61.32 | 2.17 | 10.16 | V |
| | | | | | | | | | V |
| Middle | 3756 | -41.43 | -13 | -28.43 | -59.14 | -51.67 | 2.00 | 12.25 | H |
| | 5646 | -43.10 | -13 | -30.10 | -64.29 | -53.38 | 2.12 | 12.40 | H |
| | 7520 | -51.84 | -13 | -38.84 | -77.33 | -59.80 | 2.11 | 10.07 | H |
| | | | | | | | | | H |
| | 3756 | -51.12 | -13 | -38.12 | -68.31 | -61.36 | 2.00 | 12.25 | V |
| | 5646 | -43.76 | -13 | -30.76 | -65.12 | -54.04 | 2.12 | 12.40 | V |
| | 7520 | -52.79 | -13 | -39.79 | -77.52 | -60.75 | 2.11 | 10.07 | V |
| | | | | | | | | | V |
| Highest | 3812 | -44.40 | -13 | -31.40 | -61.95 | -54.58 | 2.03 | 12.21 | H |
| | 5723 | -44.52 | -13 | -31.52 | -65.74 | -54.93 | 2.10 | 12.51 | H |
| | 7627 | -52.17 | -13 | -39.17 | -77.4 | -60.51 | 2.11 | 10.46 | H |
| | | | | | | | | | H |
| | 3812 | -53.17 | -13 | -40.17 | -70.28 | -63.35 | 2.03 | 12.21 | V |
| | 5723 | -44.95 | -13 | -31.95 | -66.3 | -55.36 | 2.10 | 12.51 | V |
| | 7627 | -52.56 | -13 | -39.56 | -77.37 | -60.90 | 2.11 | 10.46 | V |
| | | | | | | | | | V |

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



<EUT with SIM 2> Part27L WCDMA 1700

| WCDMA 1700 | | | | | | | | | |
|------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 3427 | -53.30 | -13 | -40.30 | -70.14 | -63.67 | 1.81 | 12.18 | H |
| | 5135 | -53.53 | -13 | -40.53 | -74.15 | -63.35 | 2.30 | 12.13 | H |
| | 6850 | -54.42 | -13 | -41.42 | -77.85 | -63.10 | 2.37 | 11.05 | H |
| | | | | | | | | | H |
| | 3427 | -57.66 | -13 | -44.66 | -74.03 | -68.03 | 1.81 | 12.18 | V |
| | 5135 | -56.71 | -13 | -43.71 | -77.27 | -66.53 | 2.30 | 12.13 | V |
| | 6850 | -55.40 | -13 | -42.40 | -78.11 | -64.08 | 2.37 | 11.05 | V |
| | | | | | | | | | V |
| Middle | 3469 | -52.93 | -13 | -39.93 | -70.12 | -63.39 | 1.84 | 12.31 | H |
| | 5198 | -44.42 | -13 | -31.42 | -65.08 | -54.28 | 2.28 | 12.14 | H |
| | 6927 | -54.15 | -13 | -41.15 | -77.97 | -62.73 | 2.40 | 10.97 | H |
| | | | | | | | | | H |
| | 3469 | -57.95 | -13 | -44.95 | -74.68 | -68.41 | 1.84 | 12.31 | V |
| | 5198 | -57.25 | -13 | -44.25 | -77.8 | -67.11 | 2.28 | 12.14 | V |
| | 6927 | -54.95 | -13 | -41.95 | -77.86 | -63.53 | 2.40 | 10.97 | V |
| | | | | | | | | | V |
| Highest | 3504 | -55.17 | -13 | -42.17 | -72.7 | -65.70 | 1.87 | 12.40 | H |
| | 5261 | -52.77 | -13 | -39.77 | -73.52 | -62.67 | 2.25 | 12.15 | H |
| | 7011 | -53.23 | -13 | -40.23 | -77.41 | -61.70 | 2.41 | 10.88 | H |
| | | | | | | | | | H |
| | 3504 | -59.43 | -13 | -46.43 | -76.5 | -69.96 | 1.87 | 12.40 | V |
| | 5261 | -57.23 | -13 | -44.23 | -77.98 | -67.13 | 2.25 | 12.15 | V |
| | 7011 | -54.51 | -13 | -41.51 | -77.6 | -62.98 | 2.41 | 10.88 | V |
| | | | | | | | | | V |

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



<UAT Antenna>

<EUT with SIM 1> Part22H WCDMA 850

| WCDMA 850 | | | | | | | | | |
|-----------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 1652 | -63.36 | -13 | -50.36 | -75.91 | -68.76 | 1.23 | 8.78 | H |
| | 2478 | -61.44 | -13 | -48.44 | -76.77 | -68.34 | 1.44 | 10.48 | H |
| | 3304 | -60.05 | -13 | -47.05 | -77.12 | -68.00 | 1.71 | 11.81 | H |
| | | | | | | | | | H |
| | 1652 | -65.67 | -13 | -52.67 | -75.93 | -71.07 | 1.23 | 8.78 | V |
| | 2478 | -61.86 | -13 | -48.86 | -76.58 | -68.76 | 1.44 | 10.48 | V |
| | 3304 | -60.51 | -13 | -47.51 | -77.13 | -68.46 | 1.71 | 11.81 | V |
| | | | | | | | | | V |
| Middle | 1672 | -62.83 | -13 | -49.83 | -75.59 | -68.30 | 1.24 | 8.85 | H |
| | 2508 | -61.51 | -13 | -48.51 | -76.66 | -68.43 | 1.44 | 10.51 | H |
| | 3344 | -60.09 | -13 | -47.09 | -77.03 | -68.13 | 1.74 | 11.93 | H |
| | | | | | | | | | H |
| | 1672 | -65.09 | -13 | -52.09 | -75.43 | -70.56 | 1.24 | 8.85 | V |
| | 2508 | -61.78 | -13 | -48.78 | -76.48 | -68.70 | 1.44 | 10.51 | V |
| | 3344 | -60.39 | -13 | -47.39 | -76.87 | -68.43 | 1.74 | 11.93 | V |
| | | | | | | | | | V |
| Highest | 1692 | -62.05 | -13 | -49.05 | -75.04 | -67.59 | 1.24 | 8.93 | H |
| | 2538 | -61.15 | -13 | -48.15 | -76.18 | -68.09 | 1.44 | 10.53 | H |
| | 3384 | -60.46 | -13 | -47.46 | -77.19 | -68.59 | 1.77 | 12.05 | H |
| | | | | | | | | | H |
| | 1692 | -65.10 | -13 | -52.10 | -75.55 | -70.64 | 1.24 | 8.93 | V |
| | 2538 | -61.87 | -13 | -48.87 | -76.56 | -68.81 | 1.44 | 10.53 | V |
| | 3384 | -60.51 | -13 | -47.51 | -76.78 | -68.64 | 1.77 | 12.05 | V |
| | | | | | | | | | |

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