



FCC RADIO TEST REPORT

FCC ID : IHDT56YJ1
Equipment : Mobile Cellular Phone
Brand Name : Motorola
Model Name : XT2061-1
Applicant : Motorola Mobility, LLC
222 W Merchandise Mart Plaza, Suite 1800,
Chicago, IL 60654, United States
Manufacturer : Motorola Mobility, LLC
222 W Merchandise Mart Plaza, Suite 1800,
Chicago, IL 60654, United States
Standard : 47 CFR Part 2, 22(H), 24(E)

The product was received on Dec. 06, 2019 and testing was started from Jan. 08, 2020 and completed on Jan. 18, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures 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.

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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



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Appendix A. Test Results of Conducted Test

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



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 (GSM850) (WCDMA Band V) (CDMA BC0) | | |
| | §24.232 (c) | Equivalent Isotropic Radiated Power (GSM1900) (WCDMA Band II) (CDMA BC1) | | |
| 3.3 | §24.232 (d) | Peak-to-Average Ratio | Pass | |
| 3.4 | §2.1049 | Occupied Bandwidth (GSM850) (WCDMA Band V) (CDMA BC0) (GSM1900) (WCDMA Band II) (CDMA BC1) | Pass | - |
| | §22.917 (b) | | | |
| | §24.238 (b) | | | |
| 3.5 | §2.1051 | Band Edge Measurement (GSM850) (WCDMA Band V) (CDMA BC0) (GSM1900) (WCDMA Band II) (CDMA BC1) | Pass | - |
| | §22.917 (a) | | | |
| | §24.238 (a) | | | |
| 3.6 | §2.1051 | Conducted Emission (GSM850) (WCDMA Band V) (CDMA BC0) (GSM1900) (WCDMA Band II) (CDMA BC1) | Pass | - |
| | §22.917 (a) | | | |
| | §24.238 (a) | | | |
| 3.7 | §2.1055 | Frequency Stability Temperature & Voltage | Pass | - |
| | §22.355 | | | |
| | §24.235 | | | |
| 4.4 | §2.1053 | Field Strength of Spurious Radiation (GSM850) (WCDMA Band V) (CDMA BC0) (GSM1900) (WCDMA Band II) (CDMA BC1) | Pass | Under limit 22.91 dB at 5730.000 MHz |
| | §22.917 (a) | | | |
| | §24.238 (a) | | | |

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Fiona Wu



1 General Description

1.1 Product Feature of Equipment Under Test

| Product Feature | |
|--|---|
| Equipment | Mobile Cellular Phone |
| Brand Name | Motorola |
| Model Name | XT2061-1 |
| FCC ID | IHDT56YJ1 |
| IMEI Code | Conducted: IMEI : 359120100017105 Radiation: IMEI : 359120100016339 |
| EUT supports Radios application | CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/5G NR/ GNSS/NFC/WPC WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 WLAN 11ax HE20/HE40/HE80 Bluetooth BR/EDR/LE |
| HW Version | DVT2 |
| EUT Stage | Identical Prototype |

Remark: The above EUT's information was declared by manufacturer.

| Accessory List | |
|---------------------|---------------------------------|
| AC Adapter 1 | Brand Name : Motorola |
| | Model Name : SC-51 (SA18C30116) |
| | Manufacturer : Chenyang |
| AC Adapter 2 | Brand Name : Motorola |
| | Model Name : SC-51 (SA18C62985) |
| | Manufacturer : Acbel |
| Battery | Brand Name : ATL |
| | Model Name : LW50 |
| USB Cable 1 | Brand Name : Motorola |
| | Model Name : SC18C24367 |
| | Manufacturer : Saibao |
| USB Cable 2 | Brand Name : Motorola |
| | Model Name : SC18C24368 |
| | Manufacturer : Luxshare |



1.2 Product Specification of Equipment Under Test

| Standards-related Product Specification | |
|---|--|
| Tx Frequency | GSM: GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA: Band V: 1852.4 MHz ~ 1907.6 MHz Band II: 1852.4 MHz ~ 1907.6 MHz CDMA: CDMA2000 BC0: 824.70 MHz ~ 848.31 MHz CDMA2000 BC1: 1851.25 MHz ~ 1908.75 MHz |
| Rx Frequency | GSM: GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA: Band V: 1932.4 MHz ~ 1987.6 MHz Band II: 871.4 MHz ~ 891.6 MHz CDMA: CDMA2000 BC0: 869.70 MHz ~ 893.31 MHz CDMA2000 BC1: 1931.25 MHz ~ 1988.75 MHz |
| Maximum Output Power to Antenna | GSM: GSM850: 32.73 dBm GSM1900: 29.91 dBm WCDMA: Band V: 23.31 dBm Band II: 23.36 dBm CDMA: CDMA2000 BC0: 23.59 dBm CDMA2000 BC1: 23.22 dBm |
| Antenna Type | Fixed Internal Antenna |
| Antenna Gain | Cellular Band: -3.4 dBi PCS Band: -0.9 dBi |
| Type of Modulation | GSM / GPRS: GMSK EGPRS: GMSK for MCS 0 ~ 4 & 8PSK for MCS5 ~9 WCDMA: QPSK (Uplink) HSDPA: 64QAM (Downlink) / HSUPA : QPSK (Uplink) CDMA2000 : QPSK |

1.3 Modification of EUT

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



1.4 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

| FCC Rule | Frequency Range (MHz) | System | Type of Modulation | Maximum ERP/EIRP (W) | Frequency Tolerance (ppm) | Emission Designator |
|----------|-----------------------|-------------------------------|--------------------|----------------------|---------------------------|---------------------|
| Part 22 | 824.2 ~848.8 | GSM850 GPRS class 8 | GMSK | 0.5224 | 0.0096 ppm | 249KGXW |
| Part 22 | 824.2 ~848.8 | GSM850 EDGE class 8 | 8PSK | 0.1524 | 0.0108 ppm | 250KG7W |
| Part 22 | 826.4 ~846.6 | WCDMA Band V RMC 12.2Kbps | QPSK | 0.0597 | 0.0132 ppm | 4M16F9W |
| Part 22 | 826.4 ~846.6 | CDMA BC0 1xRTT | QPSK | 0.0637 | 0.0622 ppm | 1M28F9W |
| Part 22 | 826.4 ~846.6 | CDMA BC0 1xEV-DO Rev. 0 | QPSK | 0.0628 | 0.0394 ppm | 1M28F9W |
| Part 24 | 1850.2 ~1909.8 | GSM1900 GPRS class 8 | GMSK | 0.7962 | 0.0032 ppm | 246KGXW |
| Part 24 | 1850.2 ~1909.8 | GSM1900 EDGE class 8 | 8PSK | 0.3097 | 0.0261 ppm | 242KG7W |
| Part 24 | 1850.2 ~1909.8 | WCDMA Band II RMC 12.2Kbps | QPSK | 0.1762 | 0.0011 ppm | 4M15F9W |
| Part 24 | 1850.2 ~1909.8 | CDMA BC1 1xRTT | QPSK | 0.1706 | 0.0085 ppm | 1M28F9W |
| Part 24 | 1850.2 ~1909.8 | CDMA BC1 1xEV-DO Rev. 0 | QPSK | 0.1702 | 0.0037 ppm | 1M28F9W |



1.5 Testing Location

| | |
|---------------------------|---|
| Test Site | SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory |
| 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 |
| Test Engineer | Louis Chung |
| Temperature | 21-24°C |
| Relative Humidity | 51-55% |

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

| | |
|---------------------------|---|
| Test Site | SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory |
| 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. 03CH12-HY |
| Test Engineer | Jack Cheng, Lance Chiang, and Chuan Chu |
| Temperature | 22.3~25.3°C |
| Relative Humidity | 55.7~61.9% |

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

FCC Designation No.: TW1190 and TW0007

1.6 Applicable Standards

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

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

Remark:

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



2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

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

Radiated emissions were investigated as following frequency range:

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

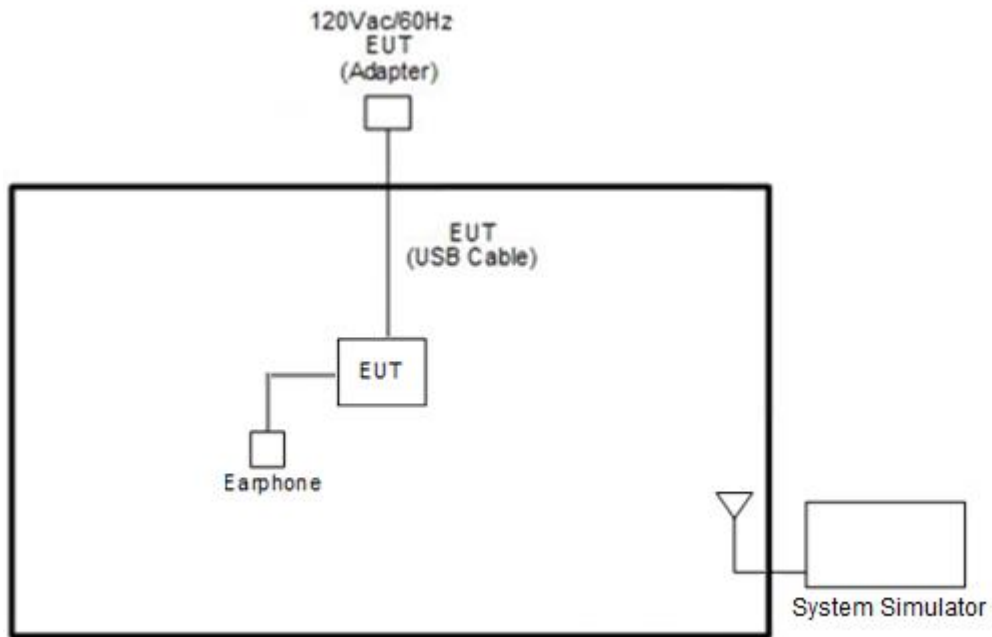
All modes and data rates and positions were investigated.

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

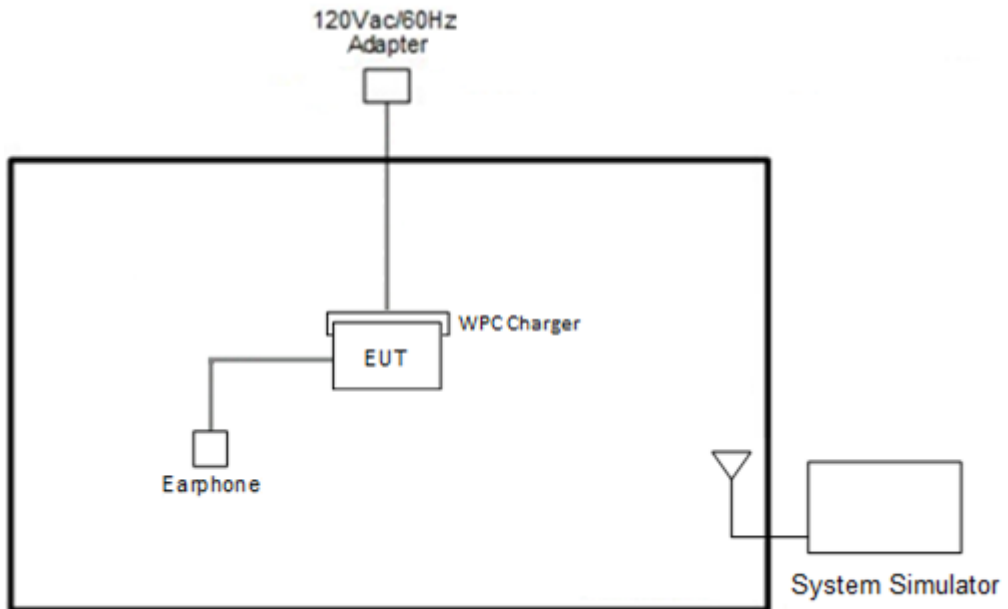
| Test Modes | | |
|---------------|--|--|
| Band | Radiated TCs | Conducted TCs |
| GSM850 | <ul style="list-style-type: none"> ■ GPRS Class 8 Link ■ EDGE Class 8 Link | <ul style="list-style-type: none"> ■ GPRS Class 8 Link ■ EDGE Class 8 Link |
| GSM1900 | <ul style="list-style-type: none"> ■ GPRS Class 8 Link ■ EDGE Class 8 Link | <ul style="list-style-type: none"> ■ GPRS Class 8 Link ■ EDGE Class 8 Link |
| WCDMA Band V | <ul style="list-style-type: none"> ■ RMC 12.2Kbps Link | <ul style="list-style-type: none"> ■ RMC 12.2Kbps Link |
| WCDMA Band II | <ul style="list-style-type: none"> ■ RMC 12.2Kbps Link | <ul style="list-style-type: none"> ■ RMC 12.2Kbps Link |
| CDMA BC0 | <ul style="list-style-type: none"> ■ 1xRTT Link ■ 1xEV-DO Rev. 0 Link | <ul style="list-style-type: none"> ■ 1xRTT Link ■ 1xEV-DO Rev. 0 Link |
| CDMA BC1 | <ul style="list-style-type: none"> ■ 1xRTT Link ■ 1xEV-DO Rev. 0 Link | <ul style="list-style-type: none"> ■ 1xRTT Link ■ 1xEV-DO Rev. 0 Link |

Remark: All the radiated test cases were performed with Adapter 1 and USB Cable 1.

2.2 Connection Diagram of Test System



<WPC Mode>





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. | iPod Earphone | Apple | N/A | Verification | Unshielded, 1.0 m | N/A |
| 3. | Wireless Charger Stand | Samsung | EP-NG930 | N/A | N/A | N/A |
| 4. | Adapter | N/A | N/A | N/A | N/A | N/A |
| 5. | USB Cable | N/A | N/A | N/A | N/A | N/A |

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

$$\text{Offset} = \text{RF cable loss} + \text{attenuator factor}.$$

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 |
| CDMA2000 BC0 | Channel | 1013 | 384 | 777 |
| | Frequency | 824.7 | 836.52 | 848.31 |
| CDMA2000 BC1 | Channel | 25 | 600 | 1175 |
| | Frequency | 1851.25 | 1880.0 | 1908.75 |

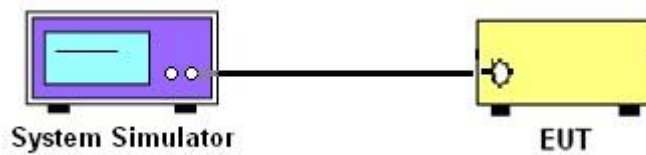
3 Conducted Test Result

3.1 Measuring Instruments

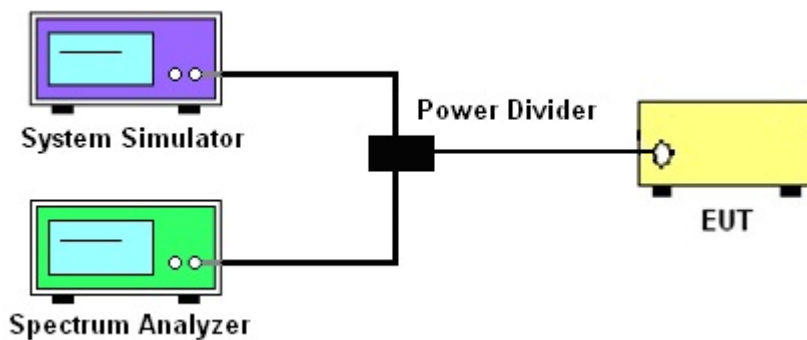
See list of measuring instruments of this test report.

3.1.1 Test Setup

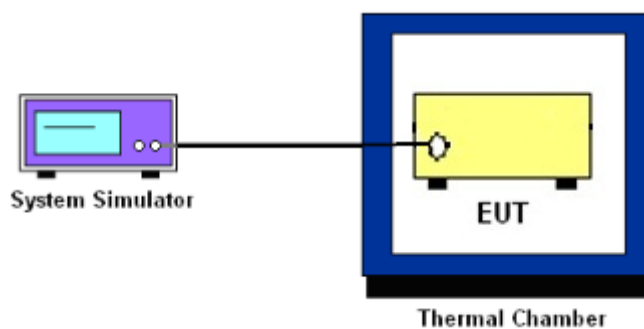
3.1.2 Conducted Output Power



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 and CDMA BC0

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

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 ANSI C63.26-2015 Section 5.2.6

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 ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

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 6.1.

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 6.1.

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



3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

22.355

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

24.235

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

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°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.

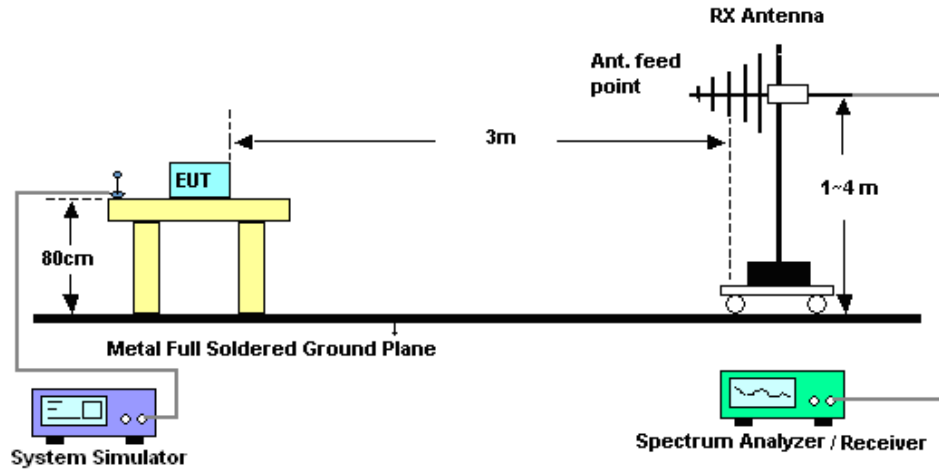
4 Radiated Test Items

4.1 Measuring Instruments

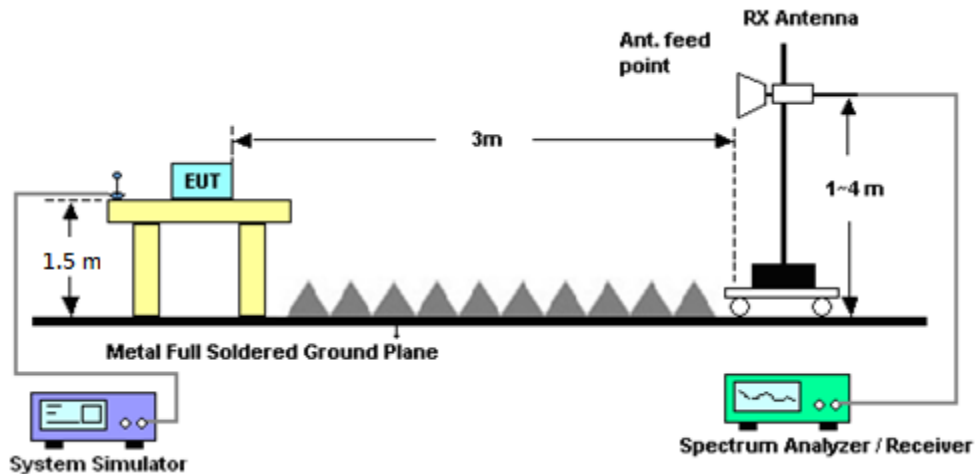
See list of measuring instruments of this test report.

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 7 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 |
|---------------------------|-----------------|-----------------------------------|-----------------|---------------------------------|------------------|---------------------------------|---------------|-----------------------|
| Hygrometer | Testo | 608-H1 | 34893241 | N/A | Mar. 06, 2019 | Jan. 08, 2020 | Mar. 05, 2020 | Conducted (TH03-HY) |
| Spectrum Analyzer | Rohde & Schwarz | FSP30 | 101329 | 9kHz~30GHz | Sep. 04, 2019 | Jan. 08, 2020 | Sep. 03, 2020 | Conducted (TH03-HY) |
| Temperature Chamber | ESPEC | SU-641 | 92013721 | -30℃ ~70℃ | Nov. 26, 2019 | Jan. 08, 2020 | Nov. 25, 2020 | Conducted (TH03-HY) |
| Programmable Power Supply | GW Instek | PSS-2005 | EL890001 | 1V~20V 0.5A~4A | Oct. 09, 2019 | Jan. 08, 2020 | Oct. 08, 2020 | Conducted (TH03-HY) |
| Base Station(Measure) | Rohde & Schwarz | CMU200 | 117995 | GSM / GPRS / WCDMA / CDMA | Aug. 23, 2019 | Jan. 08, 2020 | Aug. 22, 2020 | Conducted (TH03-HY) |
| Power Divider | Warison | WCOU-0.4-26 .5S-20 | #A | N/A | Nov. 06, 2019 | Jan. 08, 2020 | Nov. 05, 2020 | Conducted (TH03-HY) |
| Loop Antenna | Rohde & Schwarz | HFH2-Z2 | 100488 | 9 kHz~30 MHz | Jan. 07, 2019 | Jan. 08, 2020 | Jan. 06, 2020 | Radiation (03CH12-HY) |
| Loop Antenna | Rohde & Schwarz | HFH2-Z2 | 100488 | 9 kHz~30 MHz | Jan. 09, 2020 | Jan. 09, 2020~ Jan. 18, 2020 | Jan. 08, 2021 | Radiation (03CH12-HY) |
| Bilog Antenna | TESEQ | CBL 6111D & 00800N1D01 N-06 | 41912 & 05 | 30MHz~1GHz | Feb. 12, 2019 | Jan. 08, 2020~ Jan. 18, 2020 | Feb. 11, 2020 | Radiation (03CH12-HY) |
| Horn Antenna | SCHWARZBE CK | BBHA 9120D | 9120D-132 8 | 1GHz ~ 18GHz | Nov. 14, 2019 | Jan. 08, 2020~ Jan. 18, 2020 | Nov. 13, 2020 | Radiation (03CH12-HY) |
| Horn Antenna | SCHWARZBE CK | BBHA 9120D | 9120D-152 2 | 1GHz ~ 18GHz | Sep. 19, 2019 | Jan. 08, 2020~ Jan. 18, 2020 | Sep. 18, 2020 | Radiation (03CH12-HY) |
| SHF-EHF Horn Antenna | SCHWARZBE CK | BBHA 9170 | BBHA9170 584 | 18GHz ~ 40GHz | Dec. 10, 2019 | Jan. 08, 2020~ Jan. 18, 2020 | Dec. 09, 2020 | Radiation (03CH12-HY) |
| Preamplifier | COM-POWER | PA-103 | 161075 | 10MHz~1GHz | Mar. 25, 2019 | Jan. 08, 2020~ Jan. 18, 2020 | Mar. 24, 2020 | Radiation (03CH12-HY) |
| Preamplifier | Jet-Power | JPA00101800 -30-10P | 160118000 2 | 1GHz~18GHz | Aug. 01, 2019 | Jan. 08, 2020~ Jan. 18, 2020 | Jul. 01, 2020 | Radiation (03CH12-HY) |
| Preamplifier | EMEC | EM18G40G | 060715 | 18GHz ~ 40GHz | Dec. 13, 2019 | Jan. 08, 2020~ Jan. 18, 2020 | Dec. 12, 2020 | Radiation (03CH12-HY) |
| Preamplifier | Agilent | 8449B | 3008A023 75 | 1GHz~26.5GHz | May 27, 2019 | Jan. 08, 2020~ Jan. 18, 2020 | May 26, 2020 | Radiation (03CH12-HY) |
| EMI Test Receiver | Agilent | N9038A (MXE) | MY532900 45 | 20MHz~8.4GHz | Jan. 19, 2019 | Jan. 08, 2020~ Jan. 17, 2020 | Jan. 18, 2020 | Radiation (03CH12-HY) |
| EMI Test Receiver | Agilent | N9038A (MXE) | MY532900 45 | 20MHz~8.4GHz | Jan. 18, 2020 | Jan. 18, 2020 | Jan. 17, 2021 | Radiation (03CH12-HY) |
| Spectrum Analyzer | Keysight | N9010A | MY553705 26 | 10Hz~44GHz | Mar. 19, 2019 | Jan. 08, 2020~ Jan. 18, 2020 | Mar. 18, 2020 | Radiation (03CH12-HY) |
| Signal Generator | Rohde & Schwarz | SMB100A | 101107 | 100kHz~40GHz | Aug. 27, 2019 | Jan. 08, 2020~ Jan. 18, 2020 | Aug. 26, 2020 | Radiation (03CH12-HY) |
| Hygrometer | TECPEL | DTM-303B | TP161243 | N/A | May 11, 2019 | Jan. 08, 2020~ Jan. 18, 2020 | May 10, 2020 | Radiation (03CH12-HY) |



| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|--------------|-------------------|--|---------------|----------------------------------|------------------|---------------------------------|---------------|--------------------------|
| Notch Filter | Wainwright | WRCG1710/1 755-1690/177 5-45/7SS | SN2 | AWS Band | Nov. 05, 2019 | Jan. 08, 2020~ Jan. 18, 2020 | Nov. 04, 2020 | Radiation (03CH12-HY) |
| Notch Filter | Wainwright | WRCT2500/2 570-10/40-10 SSK | SN1 R | LTE Band 7 | Aug. 22, 2019 | Jan. 08, 2020~ Jan. 18, 2020 | Aug. 21, 2020 | Radiation (03CH12-HY) |
| Filter | Wainwright | WLKS1200-1 2SS | SN2 | 1.2GHz Low Pass | Mar. 22, 2019 | Jan. 08, 2020~ Jan. 18, 2020 | Mar. 21, 2020 | Radiation (03CH12-HY) |
| Filter | Wainwright | WHKX12-108 0-1200-1500- 60ST | SN1 | 1.2G High Pass | Mar. 19, 2019 | Jan. 08, 2020~ Jan. 18, 2020 | Mar. 18, 2020 | Radiation (03CH12-HY) |
| Filter | Wainwright | WHKX12-270 0-3000-18000 -60ST | SN2 | 3G High Pass | Jul. 15, 2019 | Jan. 08, 2020~ Jan. 18, 2020 | Jul. 14, 2020 | Radiation (03CH12-HY) |
| Filter | Wainwright | WHKX12-270 0-3000-18000 -60ST | SN2 | 3G High Pass | Jul. 15, 2019 | Jan. 08, 2020~ Jan. 18, 2020 | Jul. 14, 2020 | Radiation (03CH12-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 126E | 0058/126E | 30M-18G | Mar. 13, 2019 | Jan. 08, 2020~ Jan. 18, 2020 | Mar. 12, 2020 | Radiation (03CH12-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 102 | 505134/2 | 30M~40GHz | Feb. 26, 2019 | Jan. 08, 2020~ Jan. 18, 2020 | Feb. 25, 2020 | Radiation (03CH12-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 102 | 800740/2 | 30M~40GHz | Feb. 26, 2019 | Jan. 08, 2020~ Jan. 18, 2020 | Feb. 25, 2020 | Radiation (03CH12-HY) |
| Controller | EMEC | EM1000 | N/A | Control Turn table & Ant Mast | N/A | Jan. 08, 2020~ Jan. 18, 2020 | N/A | Radiation (03CH12-HY) |
| Antenna Mast | EMEC | AM-BS-4500- B | N/A | 1m~4m | N/A | Jan. 08, 2020~ Jan. 18, 2020 | N/A | Radiation (03CH12-HY) |
| Turn Table | EMEC | TT2000 | N/A | 0~360 Degree | N/A | Jan. 08, 2020~ Jan. 18, 2020 | N/A | Radiation (03CH12-HY) |
| Software | Audix | E3 6.2009-8-24 | RK-00098 9 | N/A | N/A | Jan. 08, 2020~ Jan. 18, 2020 | N/A | Radiation (03CH12-HY) |



6 Uncertainty of Evaluation

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

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 3.24 |
|---|------|

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

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 3.62 |
|---|------|

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

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 4.06 |
|---|------|



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 | 32.60 | 32.71 | 32.61 | 29.83 | 29.85 | 29.51 |
| GPRS class 8 | 32.66 | 32.73 | 32.55 | 29.91 | 29.86 | 29.63 |
| GPRS class 10 | 31.72 | 31.39 | 31.27 | 29.02 | 29.08 | 28.94 |
| GPRS class 11 | 30.44 | 29.89 | 29.67 | 27.47 | 27.61 | 27.54 |
| GPRS class 12 | 28.75 | 28.13 | 27.50 | 25.89 | 26.05 | 26.00 |
| EGPRS class 8 | 27.17 | 27.26 | 27.38 | 25.65 | 25.62 | 25.81 |
| EGPRS class 10 | 26.01 | 26.11 | 26.28 | 25.08 | 25.06 | 25.25 |
| EGPRS class 11 | 24.40 | 24.51 | 24.66 | 23.54 | 23.54 | 23.72 |
| EGPRS class 12 | 22.83 | 22.92 | 23.08 | 22.00 | 21.95 | 22.17 |

| 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 | 23.23 | 23.31 | 23.27 | 23.22 | 23.36 | 23.16 |
| HSDPA Subtest-1 | 22.25 | 22.34 | 22.32 | 22.24 | 22.40 | 22.16 |
| HSDPA Subtest-2 | 22.29 | 22.33 | 22.33 | 22.25 | 22.37 | 22.16 |
| HSDPA Subtest-3 | 21.74 | 21.82 | 21.82 | 21.77 | 21.87 | 21.72 |
| HSDPA Subtest-4 | 21.77 | 21.84 | 21.80 | 21.76 | 21.90 | 21.72 |
| HSUPA Subtest-1 | 22.25 | 22.30 | 22.29 | 22.27 | 22.40 | 22.15 |
| HSUPA Subtest-2 | 20.17 | 20.22 | 20.15 | 20.27 | 20.41 | 20.25 |
| HSUPA Subtest-3 | 21.13 | 21.18 | 21.17 | 21.25 | 21.39 | 21.21 |
| HSUPA Subtest-4 | 20.16 | 20.21 | 20.16 | 20.32 | 20.43 | 20.16 |
| HSUPA Subtest-5 | 22.20 | 22.20 | 22.20 | 22.30 | 22.40 | 22.20 |

| Conducted Power (*Unit: dBm) | | | | | | |
|------------------------------|---------------|--------------|--------|---------------|--------------|---------|
| Band | CDMA 2000 BC0 | | | CDMA 2000 BC1 | | |
| Channel | 1013 | 384 | 777 | 25 | 600 | 1175 |
| Frequency | 824.7 | 836.52 | 848.31 | 1851.25 | 1880 | 1908.75 |
| 1xRTT RC1 SO55 | 23.56 | 23.43 | 23.52 | 23.21 | 23.22 | 23.02 |
| 1xRTT RC3 SO55 | 23.51 | 23.38 | 23.47 | 23.21 | 23.20 | 23.03 |
| 1xRTT RC3 SO32 (+ F-SCH) | 23.53 | 23.59 | 23.58 | 23.20 | 23.17 | 23.02 |
| 1xRTT RC3 SO32 (+SCH) | 23.52 | 23.51 | 23.53 | 23.19 | 23.18 | 23.03 |
| 1xEVDO RTAP 153.6Kbps | 23.52 | 23.53 | 23.51 | 23.20 | 23.21 | 23.01 |
| 1xEVDO RETAP 4096Bits | 23.51 | 23.33 | 23.52 | 23.21 | 23.21 | 23.02 |



A2. GSM

Peak-to-Average Ratio

| Mode | GSM850 | | Limit: 13dB |
|------------|--------------|--------------|-------------|
| Mod. | GPRS class 8 | EDGE class 8 | Result |
| Lowest CH | 0.24 | 3.40 | PASS |
| Middle CH | 0.28 | 3.28 | |
| Highest CH | 0.28 | 3.28 | |
| Mode | GSM1900 | | Limit: 13dB |
| Mod. | GPRS class 8 | EDGE class 8 | Result |
| Lowest CH | 0.28 | 3.52 | PASS |
| Middle CH | 0.28 | 3.56 | |
| Highest CH | 0.24 | 3.60 | |



| GSM850 (GPRS class 8) | GSM850 (EDGE class 8) |
|---|---|
| <p align="center">Lowest Channel</p> <p align="center">Complementary Cumulative Distribution Function (100000 samples) Trace 1</p> <p>Mean 31.31 dBm Peak 31.58 dBm Crest 0.28 dB</p> <p>10 % 0.20 dB 1 % 0.24 dB .1 % 0.24 dB .01 % 0.28 dB</p> <p>Date: 8.JAN.2020 10:00:26</p> | <p align="center">Lowest Channel</p> <p align="center">Complementary Cumulative Distribution Function (100000 samples) Trace 1</p> <p>Mean 25.75 dBm Peak 29.25 dBm Crest 3.50 dB</p> <p>10 % 2.72 dB 1 % 3.28 dB .1 % 3.40 dB .01 % 3.44 dB</p> <p>Date: 8.JAN.2020 10:32:25</p> |
| <p align="center">Middle Channel</p> <p align="center">Complementary Cumulative Distribution Function (100000 samples) Trace 1</p> <p>Mean 31.20 dBm Peak 31.44 dBm Crest 0.24 dB</p> <p>10 % 0.20 dB 1 % 0.24 dB .1 % 0.28 dB .01 % 0.28 dB</p> <p>Date: 8.JAN.2020 10:00:39</p> | <p align="center">Middle Channel</p> <p align="center">Complementary Cumulative Distribution Function (100000 samples) Trace 1</p> <p>Mean 25.91 dBm Peak 29.32 dBm Crest 3.41 dB</p> <p>10 % 2.56 dB 1 % 3.20 dB .1 % 3.28 dB .01 % 3.36 dB</p> <p>Date: 8.JAN.2020 10:32:38</p> |
| <p align="center">Highest Channel</p> <p align="center">Complementary Cumulative Distribution Function (100000 samples) Trace 1</p> <p>Mean 31.03 dBm Peak 31.30 dBm Crest 0.27 dB</p> <p>10 % 0.20 dB 1 % 0.24 dB .1 % 0.28 dB .01 % 0.28 dB</p> <p>Date: 8.JAN.2020 10:00:51</p> | <p align="center">Highest Channel</p> <p align="center">Complementary Cumulative Distribution Function (100000 samples) Trace 1</p> <p>Mean 25.92 dBm Peak 29.25 dBm Crest 3.34 dB</p> <p>10 % 2.64 dB 1 % 3.20 dB .1 % 3.28 dB .01 % 3.32 dB</p> <p>Date: 8.JAN.2020 10:32:51</p> |

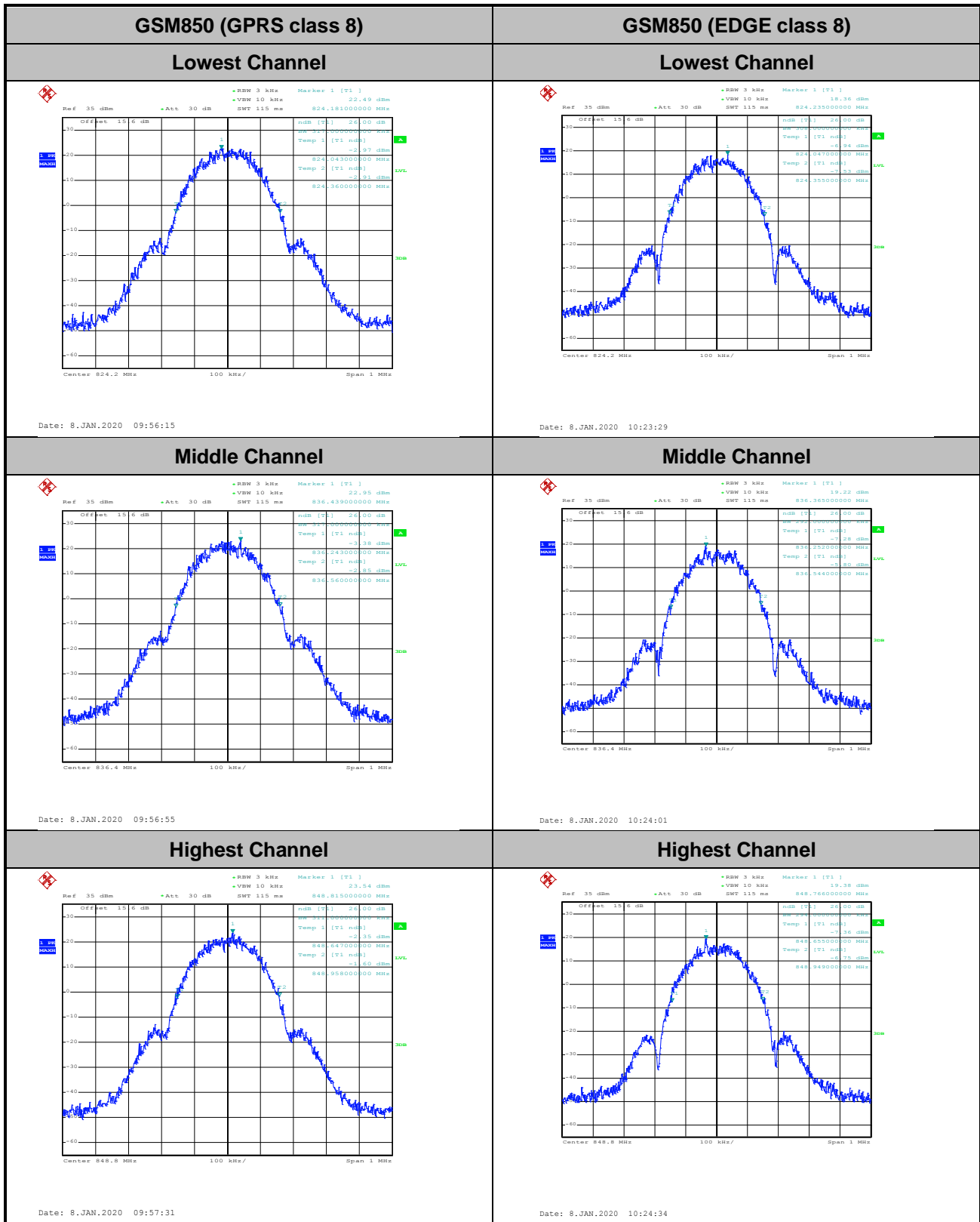


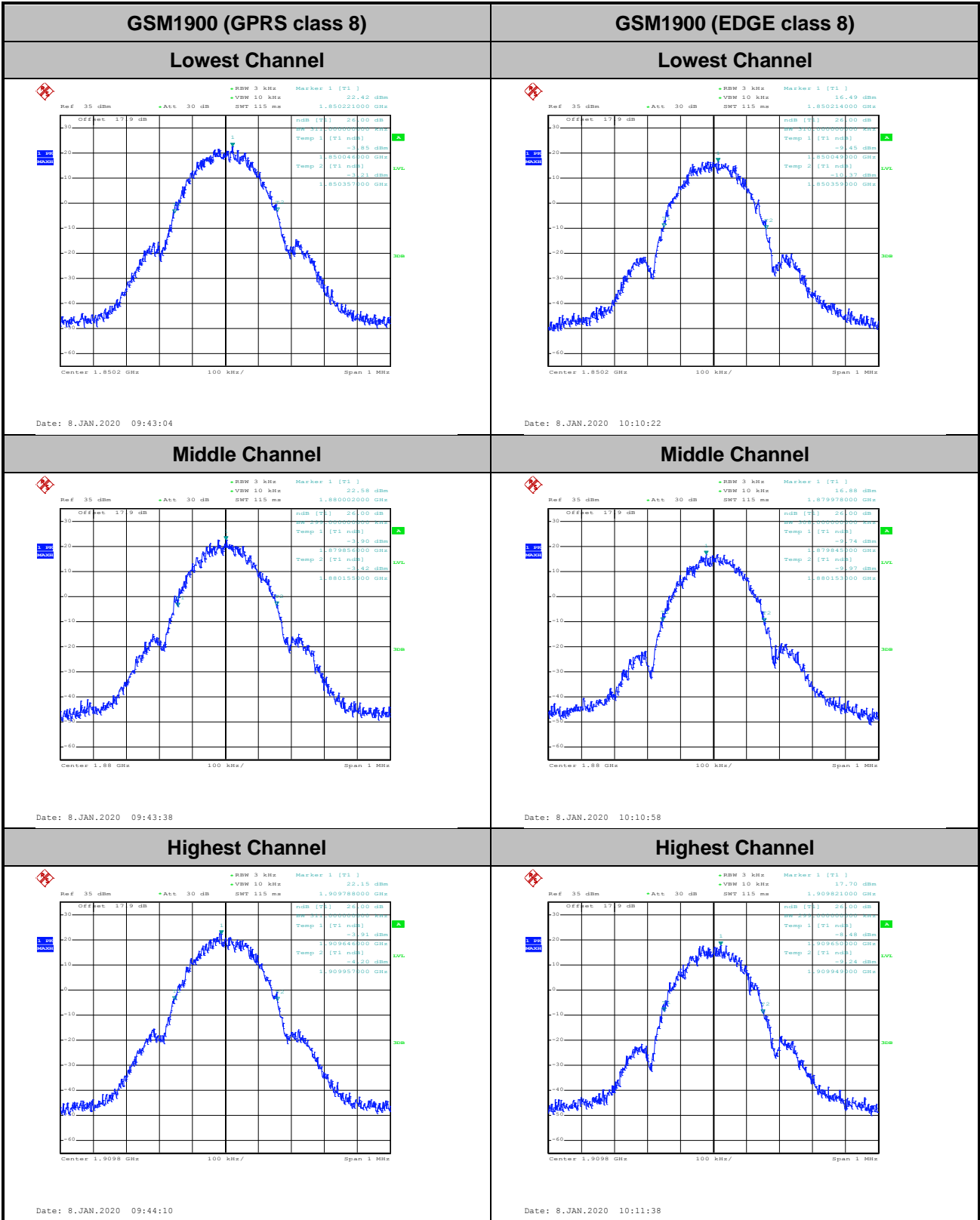
| GSM1900 (GPRS class 8) | GSM1900 (EDGE class 8) | | | | | | | | | | | | | | | | |
|--|------------------------|---------|-----|---------|------|---------|-------|---------|--|------|---------|-----|---------|------|---------|-------|---------|
| <p align="center">Lowest Channel</p> <p>Ref: 35 dBm RBW: 10 MHz Att: 30 dB AQT: 3.125 ms</p> <p>Center: 1.8502 GHz 2 dB/ Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 29.69 dBm Peak 30.03 dBm Crest 0.34 dB</p> <table border="1"> <tr><td>10 %</td><td>0.24 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>0.36 dB</td></tr> </table> <p>Date: 8.JAN.2020 09:47:15</p> | 10 % | 0.24 dB | 1 % | 0.28 dB | .1 % | 0.28 dB | .01 % | 0.36 dB | <p align="center">Lowest Channel</p> <p>Ref: 35 dBm RBW: 10 MHz Att: 30 dB AQT: 3.125 ms</p> <p>Center: 1.8502 GHz 2 dB/ Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 25.31 dBm Peak 28.90 dBm Crest 3.59 dB</p> <table border="1"> <tr><td>10 %</td><td>2.76 dB</td></tr> <tr><td>1 %</td><td>3.40 dB</td></tr> <tr><td>.1 %</td><td>3.52 dB</td></tr> <tr><td>.01 %</td><td>3.60 dB</td></tr> </table> <p>Date: 8.JAN.2020 10:21:20</p> | 10 % | 2.76 dB | 1 % | 3.40 dB | .1 % | 3.52 dB | .01 % | 3.60 dB |
| 10 % | 0.24 dB | | | | | | | | | | | | | | | | |
| 1 % | 0.28 dB | | | | | | | | | | | | | | | | |
| .1 % | 0.28 dB | | | | | | | | | | | | | | | | |
| .01 % | 0.36 dB | | | | | | | | | | | | | | | | |
| 10 % | 2.76 dB | | | | | | | | | | | | | | | | |
| 1 % | 3.40 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.52 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.60 dB | | | | | | | | | | | | | | | | |
| <p align="center">Middle Channel</p> <p>Ref: 35 dBm RBW: 10 MHz Att: 30 dB AQT: 3.125 ms</p> <p>Center: 1.85 GHz 2 dB/ Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 29.70 dBm Peak 30.03 dBm Crest 0.33 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>0.28 dB</td></tr> <tr><td>.01 %</td><td>0.32 dB</td></tr> </table> <p>Date: 8.JAN.2020 09:47:31</p> | 10 % | 0.20 dB | 1 % | 0.28 dB | .1 % | 0.28 dB | .01 % | 0.32 dB | <p align="center">Middle Channel</p> <p>Ref: 35 dBm RBW: 10 MHz Att: 30 dB AQT: 3.125 ms</p> <p>Center: 1.85 GHz 2 dB/ Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 25.27 dBm Peak 28.90 dBm Crest 3.63 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>3.60 dB</td></tr> </table> <p>Date: 8.JAN.2020 10:21:34</p> | 10 % | 2.80 dB | 1 % | 3.44 dB | .1 % | 3.56 dB | .01 % | 3.60 dB |
| 10 % | 0.20 dB | | | | | | | | | | | | | | | | |
| 1 % | 0.28 dB | | | | | | | | | | | | | | | | |
| .1 % | 0.28 dB | | | | | | | | | | | | | | | | |
| .01 % | 0.32 dB | | | | | | | | | | | | | | | | |
| 10 % | 2.80 dB | | | | | | | | | | | | | | | | |
| 1 % | 3.44 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.56 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.60 dB | | | | | | | | | | | | | | | | |
| <p align="center">Highest Channel</p> <p>Ref: 35 dBm RBW: 10 MHz Att: 30 dB AQT: 3.125 ms</p> <p>Center: 1.9098 GHz 2 dB/ Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 29.53 dBm Peak 29.82 dBm Crest 0.29 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>0.24 dB</td></tr> <tr><td>.01 %</td><td>0.28 dB</td></tr> </table> <p>Date: 8.JAN.2020 09:47:47</p> | 10 % | 0.20 dB | 1 % | 0.24 dB | .1 % | 0.24 dB | .01 % | 0.28 dB | <p align="center">Highest Channel</p> <p>Ref: 35 dBm RBW: 10 MHz Att: 30 dB AQT: 3.125 ms</p> <p>Center: 1.9098 GHz 2 dB/ Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 25.37 dBm Peak 29.04 dBm Crest 3.67 dB</p> <table border="1"> <tr><td>10 %</td><td>2.80 dB</td></tr> <tr><td>1 %</td><td>3.52 dB</td></tr> <tr><td>.1 %</td><td>3.60 dB</td></tr> <tr><td>.01 %</td><td>3.64 dB</td></tr> </table> <p>Date: 8.JAN.2020 10:21:48</p> | 10 % | 2.80 dB | 1 % | 3.52 dB | .1 % | 3.60 dB | .01 % | 3.64 dB |
| 10 % | 0.20 dB | | | | | | | | | | | | | | | | |
| 1 % | 0.24 dB | | | | | | | | | | | | | | | | |
| .1 % | 0.24 dB | | | | | | | | | | | | | | | | |
| .01 % | 0.28 dB | | | | | | | | | | | | | | | | |
| 10 % | 2.80 dB | | | | | | | | | | | | | | | | |
| 1 % | 3.52 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.60 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.64 dB | | | | | | | | | | | | | | | | |



26dB Bandwidth

| Mode | GSM850: 26dB BW(MHz) | |
|------------|----------------------|--------------|
| Mod. | GPRS class 8 | EDGE class 8 |
| Lowest CH | 0.317 | 0.308 |
| Middle CH | 0.317 | 0.292 |
| Highest CH | 0.311 | 0.294 |
| Mode | GSM1900 26dB BW(MHz) | |
| Mod. | GPRS class 8 | EDGE class 8 |
| Lowest CH | 0.311 | 0.310 |
| Middle CH | 0.299 | 0.308 |
| Highest CH | 0.311 | 0.299 |



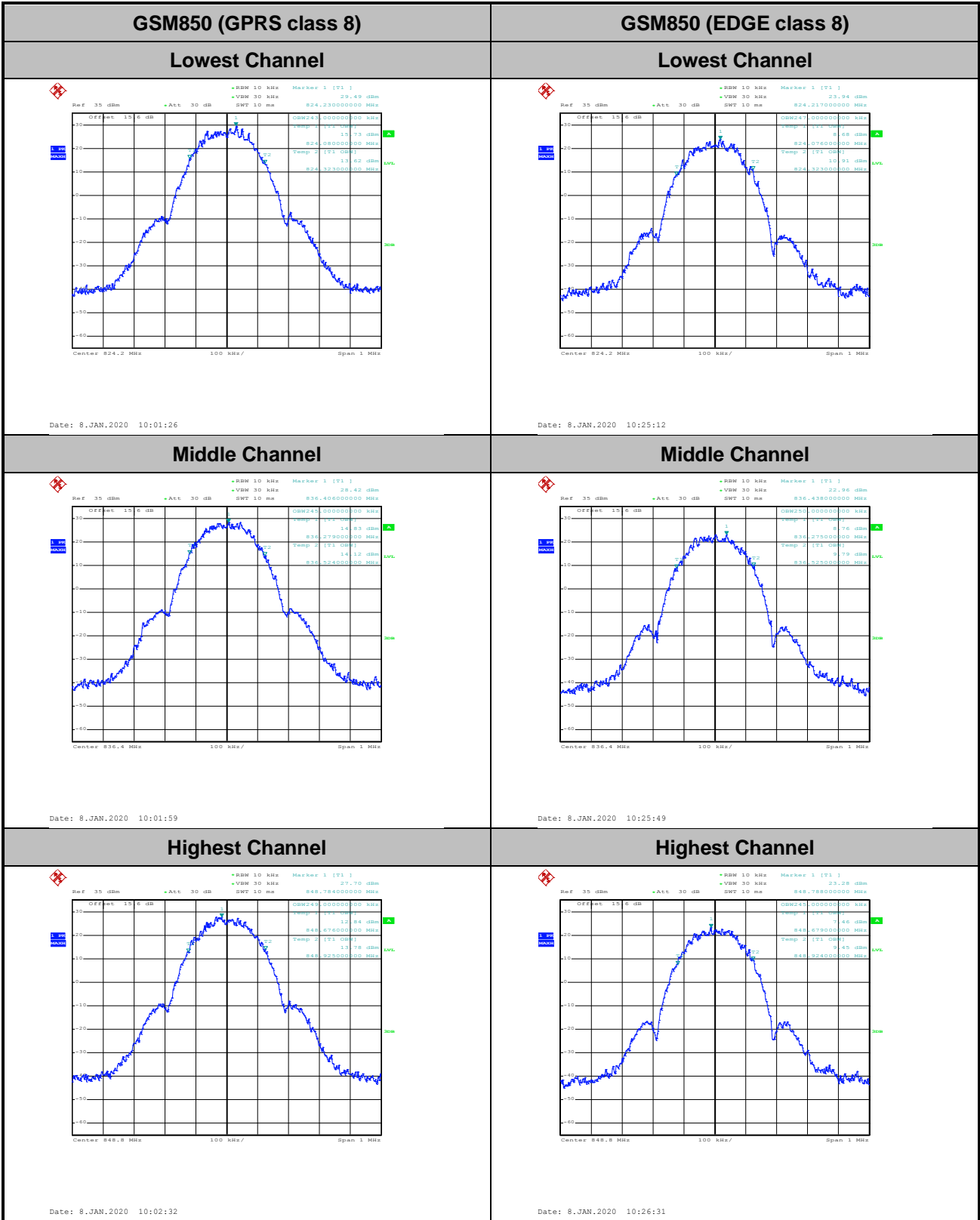


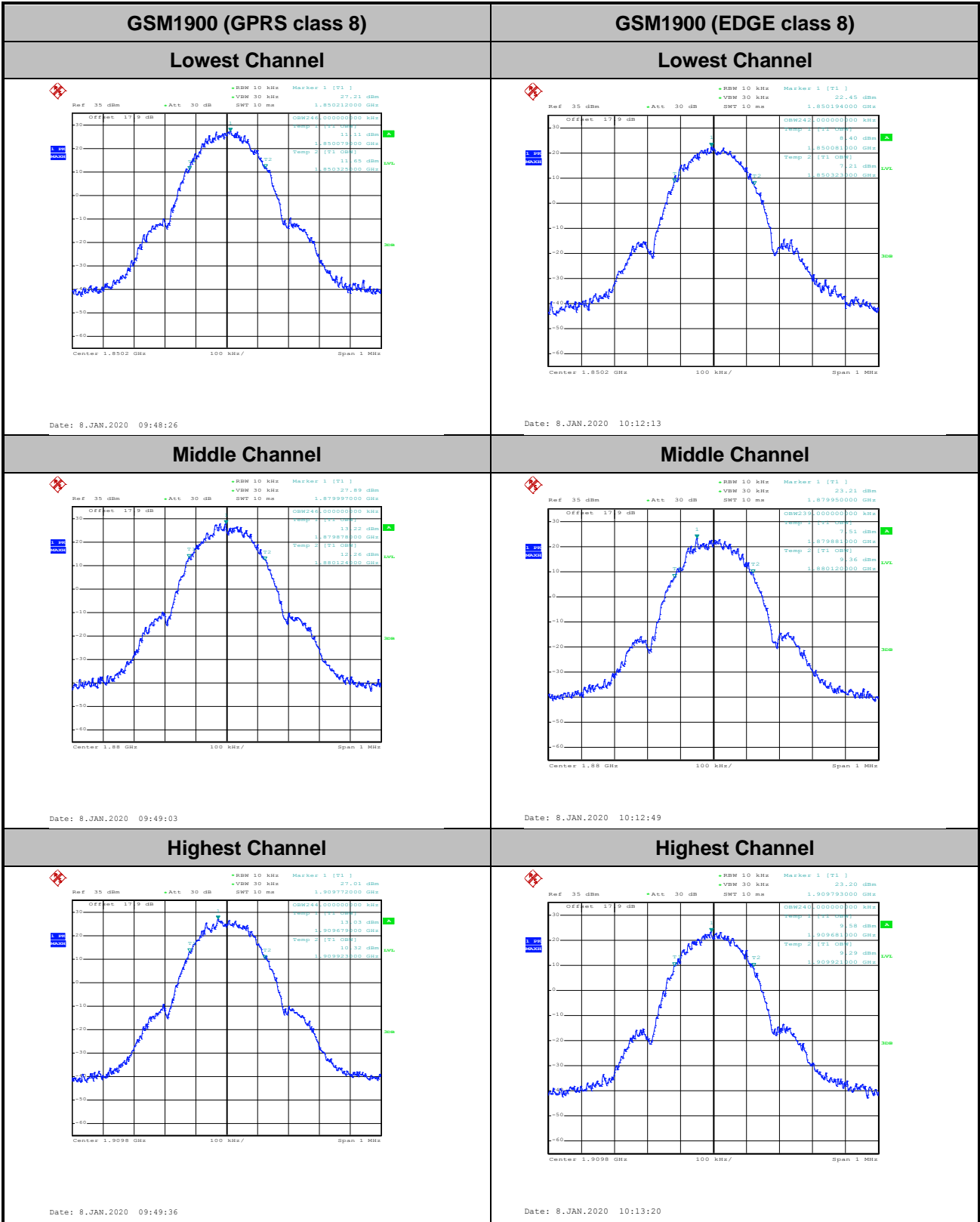


Occupied Bandwidth

| Mode | GSM850: 99% OBW (MHz) | |
|------------|-----------------------|--------------|
| Mod. | GPRS class 8 | EDGE class 8 |
| Lowest CH | 0.243 | 0.247 |
| Middle CH | 0.245 | 0.250 |
| Highest CH | 0.249 | 0.245 |

| Mode | GSM1900: 99% OBW (MHz) | |
|------------|------------------------|--------------|
| Mod. | GPRS class 8 | EDGE class 8 |
| Lowest CH | 0.246 | 0.242 |
| Middle CH | 0.246 | 0.239 |
| Highest CH | 0.244 | 0.240 |



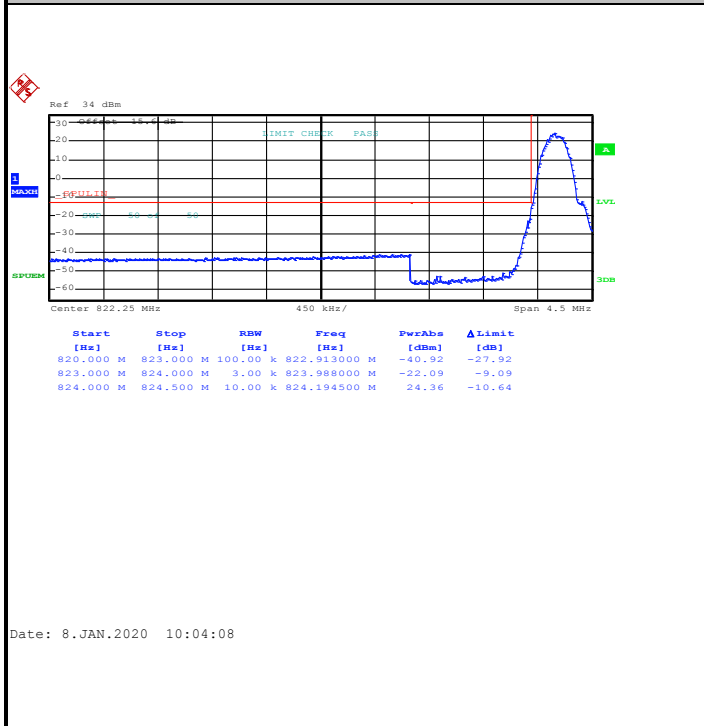




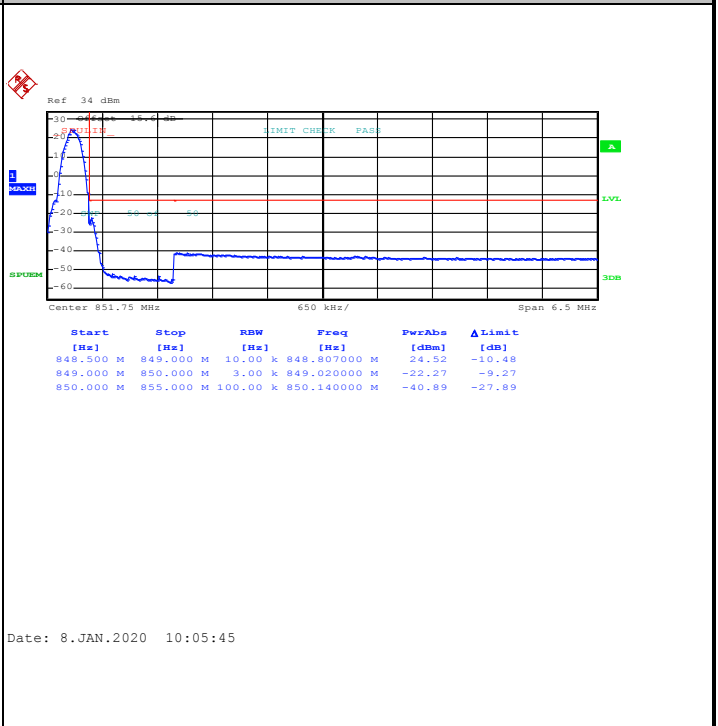
Conducted Band Edge

GSM850 (GPRS class 8)

Lowest Band Edge

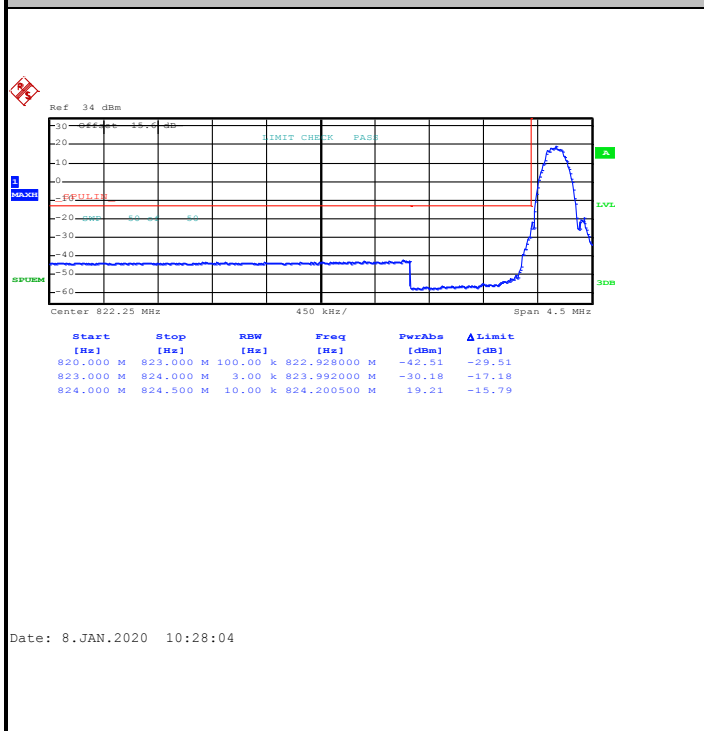


Highest Band Edge

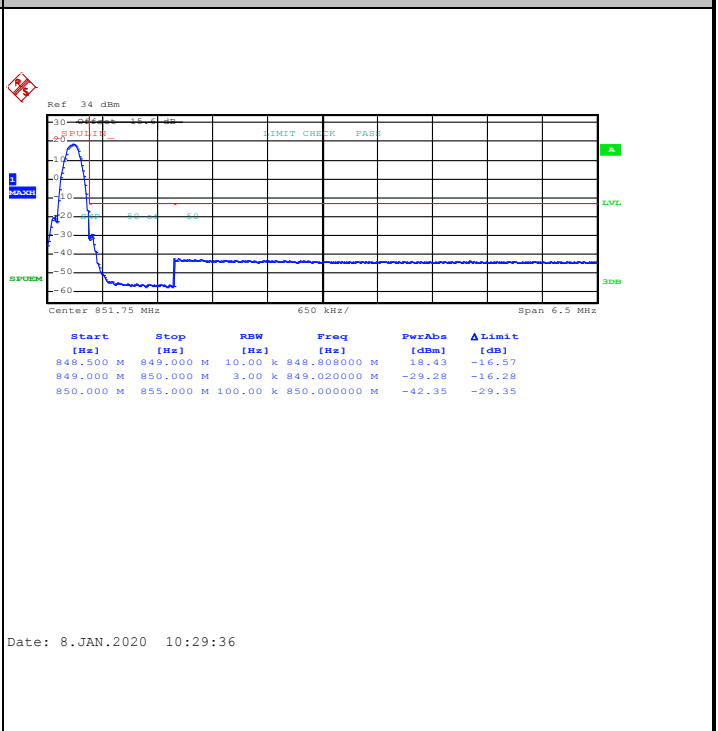


GSM850 (EDGE class 8)

Lowest Band Edge



Highest Band Edge

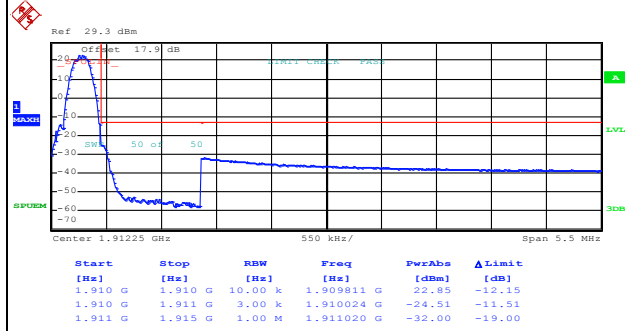
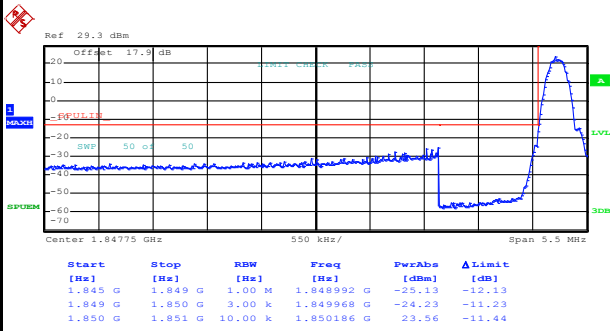




GSM1900 (GPRS class 8)

Lowest Band Edge

Highest Band Edge



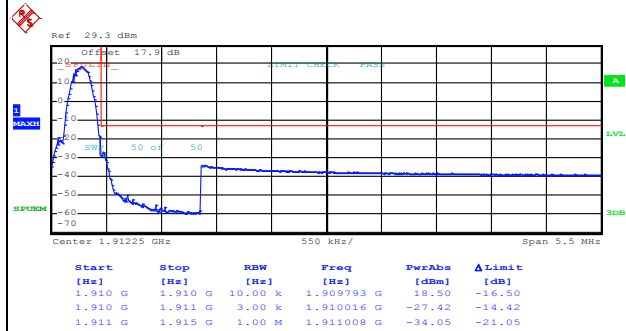
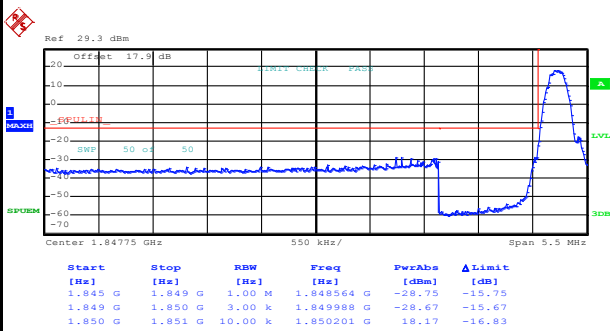
Date: 8.JAN.2020 09:51:13

Date: 8.JAN.2020 09:52:50

GSM1900 (EDGE class 8)

Lowest Band Edge

Highest Band Edge

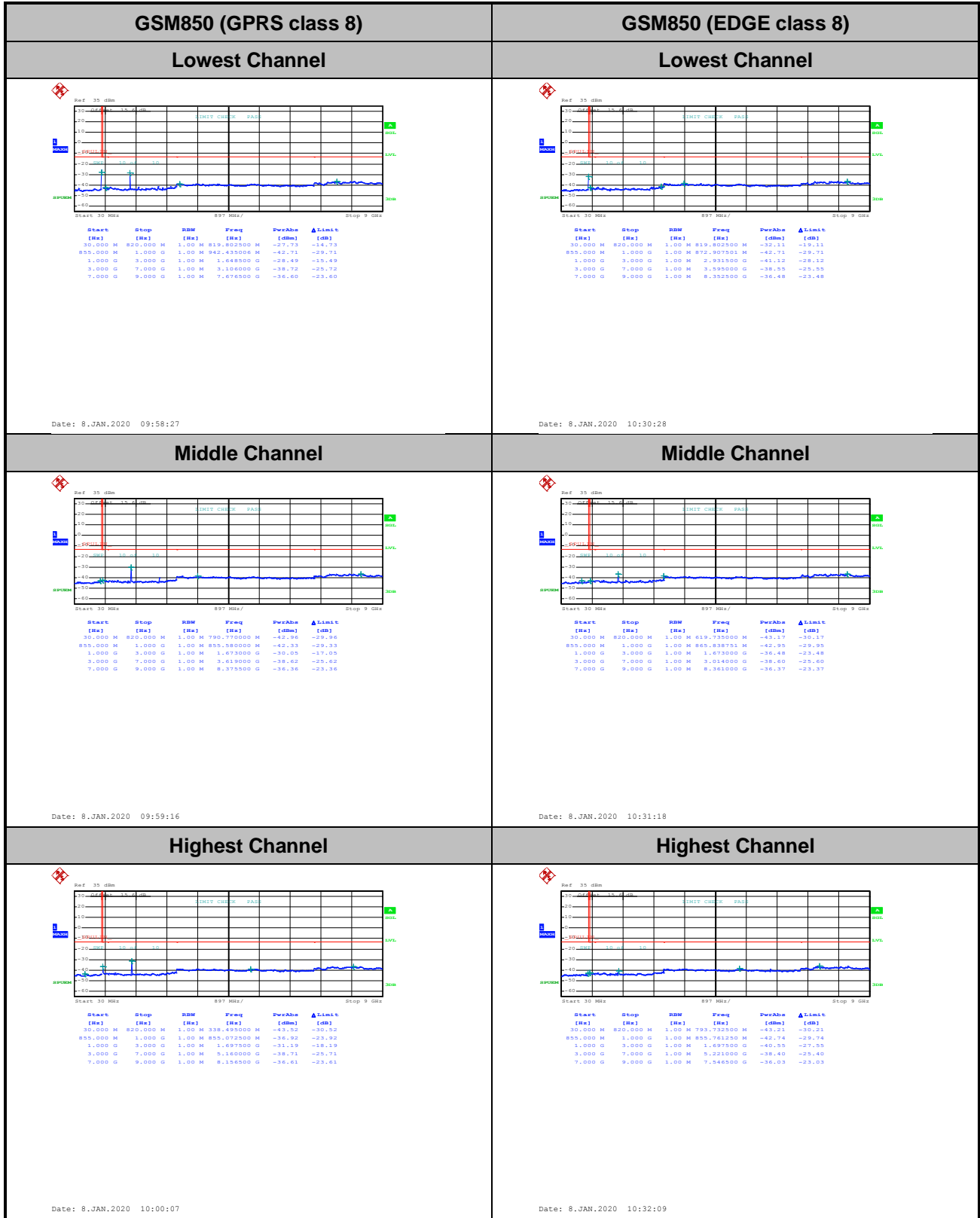


Date: 8.JAN.2020 10:16:44

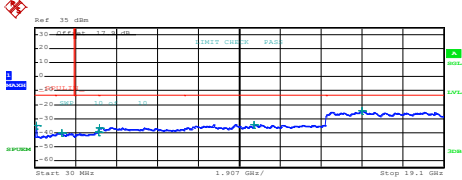
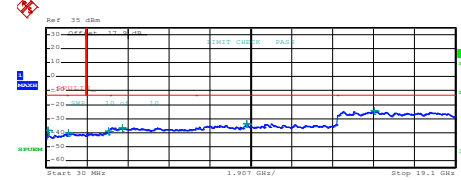
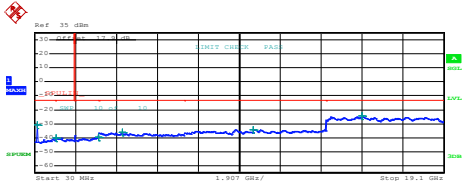
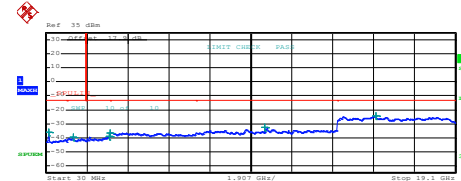
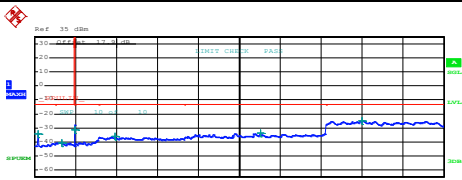
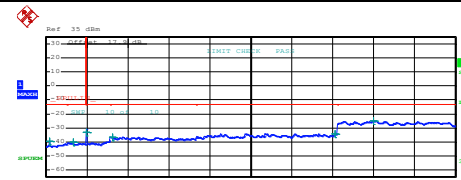
Date: 8.JAN.2020 10:18:18



Conducted Spurious Emission





| GSM1900 (GPRS class 8) | GSM1900 (EDGE class 8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------|------------|------------|--------------|--------------|-------------|---------|--------|-------|------------|--------|--------|--------|--------|-------|----------|--------|--------|--------|--------|-------|----------|--------|--------|--------|--------|-------|----------|--------|--------|--------|---------|-------|-----------|--------|--------|---------|---------|-------|-----------|--------|--------|---|-------------|------------|----------|------------|--------------|-------------|---------|--------|-------|------------|--------|--------|--------|--------|-------|----------|--------|--------|--------|--------|-------|----------|--------|--------|--------|--------|-------|----------|--------|--------|--------|---------|-------|-----------|--------|--------|---------|---------|-------|-----------|--------|--------|
| Lowest Channel | Lowest Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="1" data-bbox="239 571 638 672"> <thead> <tr> <th>Start [MHz]</th> <th>Stop [MHz]</th> <th>RBW [Hz]</th> <th>Freq [MHz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr><td>30.0000</td><td>1.0000</td><td>1.000</td><td>111.965000</td><td>-34.91</td><td>-21.03</td></tr> <tr><td>1.0000</td><td>1.8450</td><td>1.000</td><td>1.274414</td><td>-40.28</td><td>-27.28</td></tr> <tr><td>1.8450</td><td>3.0000</td><td>1.000</td><td>2.098925</td><td>-39.44</td><td>-26.44</td></tr> <tr><td>3.0000</td><td>7.0000</td><td>1.000</td><td>3.051000</td><td>-36.60</td><td>-23.60</td></tr> <tr><td>7.0000</td><td>13.6000</td><td>1.000</td><td>10.248025</td><td>-34.01</td><td>-21.01</td></tr> <tr><td>13.6000</td><td>19.1000</td><td>1.000</td><td>15.290563</td><td>-24.37</td><td>-11.37</td></tr> </tbody> </table> <p>Date: 8.JAN.2020 09:45:11</p> | Start [MHz] | Stop [MHz] | RBW [Hz] | Freq [MHz] | PwrAve [dBm] | ΔLimit [dB] | 30.0000 | 1.0000 | 1.000 | 111.965000 | -34.91 | -21.03 | 1.0000 | 1.8450 | 1.000 | 1.274414 | -40.28 | -27.28 | 1.8450 | 3.0000 | 1.000 | 2.098925 | -39.44 | -26.44 | 3.0000 | 7.0000 | 1.000 | 3.051000 | -36.60 | -23.60 | 7.0000 | 13.6000 | 1.000 | 10.248025 | -34.01 | -21.01 | 13.6000 | 19.1000 | 1.000 | 15.290563 | -24.37 | -11.37 |  <table border="1" data-bbox="877 571 1276 672"> <thead> <tr> <th>Start [MHz]</th> <th>Stop [MHz]</th> <th>RBW [Hz]</th> <th>Freq [MHz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr><td>30.0000</td><td>1.0000</td><td>1.000</td><td>111.965000</td><td>-35.15</td><td>-21.15</td></tr> <tr><td>1.0000</td><td>1.8450</td><td>1.000</td><td>1.055559</td><td>-40.28</td><td>-27.28</td></tr> <tr><td>1.8450</td><td>3.0000</td><td>1.000</td><td>2.946835</td><td>-39.03</td><td>-26.03</td></tr> <tr><td>3.0000</td><td>7.0000</td><td>1.000</td><td>3.571000</td><td>-36.39</td><td>-23.39</td></tr> <tr><td>7.0000</td><td>13.6000</td><td>1.000</td><td>9.357025</td><td>-33.76</td><td>-20.76</td></tr> <tr><td>13.6000</td><td>19.1000</td><td>1.000</td><td>15.322875</td><td>-24.22</td><td>-11.22</td></tr> </tbody> </table> <p>Date: 8.JAN.2020 10:19:10</p> | Start [MHz] | Stop [MHz] | RBW [Hz] | Freq [MHz] | PwrAve [dBm] | ΔLimit [dB] | 30.0000 | 1.0000 | 1.000 | 111.965000 | -35.15 | -21.15 | 1.0000 | 1.8450 | 1.000 | 1.055559 | -40.28 | -27.28 | 1.8450 | 3.0000 | 1.000 | 2.946835 | -39.03 | -26.03 | 3.0000 | 7.0000 | 1.000 | 3.571000 | -36.39 | -23.39 | 7.0000 | 13.6000 | 1.000 | 9.357025 | -33.76 | -20.76 | 13.6000 | 19.1000 | 1.000 | 15.322875 | -24.22 | -11.22 |
| Start [MHz] | Stop [MHz] | RBW [Hz] | Freq [MHz] | PwrAve [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.0000 | 1.0000 | 1.000 | 111.965000 | -34.91 | -21.03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0000 | 1.8450 | 1.000 | 1.274414 | -40.28 | -27.28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.8450 | 3.0000 | 1.000 | 2.098925 | -39.44 | -26.44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0000 | 7.0000 | 1.000 | 3.051000 | -36.60 | -23.60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0000 | 13.6000 | 1.000 | 10.248025 | -34.01 | -21.01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13.6000 | 19.1000 | 1.000 | 15.290563 | -24.37 | -11.37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Start [MHz] | Stop [MHz] | RBW [Hz] | Freq [MHz] | PwrAve [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.0000 | 1.0000 | 1.000 | 111.965000 | -35.15 | -21.15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0000 | 1.8450 | 1.000 | 1.055559 | -40.28 | -27.28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.8450 | 3.0000 | 1.000 | 2.946835 | -39.03 | -26.03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0000 | 7.0000 | 1.000 | 3.571000 | -36.39 | -23.39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0000 | 13.6000 | 1.000 | 9.357025 | -33.76 | -20.76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13.6000 | 19.1000 | 1.000 | 15.322875 | -24.22 | -11.22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Middle Channel | Middle Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="1" data-bbox="239 1086 638 1187"> <thead> <tr> <th>Start [MHz]</th> <th>Stop [MHz]</th> <th>RBW [Hz]</th> <th>Freq [MHz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr><td>30.0000</td><td>1.0000</td><td>1.000</td><td>141.792500</td><td>-30.73</td><td>-17.73</td></tr> <tr><td>1.0000</td><td>1.8450</td><td>1.000</td><td>1.016324</td><td>-40.11</td><td>-27.11</td></tr> <tr><td>1.8450</td><td>3.0000</td><td>1.000</td><td>2.987016</td><td>-39.31</td><td>-26.31</td></tr> <tr><td>3.0000</td><td>7.0000</td><td>1.000</td><td>4.104000</td><td>-36.28</td><td>-23.28</td></tr> <tr><td>7.0000</td><td>13.6000</td><td>1.000</td><td>10.222450</td><td>-34.25</td><td>-21.25</td></tr> <tr><td>13.6000</td><td>19.1000</td><td>1.000</td><td>15.283687</td><td>-24.18</td><td>-11.18</td></tr> </tbody> </table> <p>Date: 8.JAN.2020 09:46:01</p> | Start [MHz] | Stop [MHz] | RBW [Hz] | Freq [MHz] | PwrAve [dBm] | ΔLimit [dB] | 30.0000 | 1.0000 | 1.000 | 141.792500 | -30.73 | -17.73 | 1.0000 | 1.8450 | 1.000 | 1.016324 | -40.11 | -27.11 | 1.8450 | 3.0000 | 1.000 | 2.987016 | -39.31 | -26.31 | 3.0000 | 7.0000 | 1.000 | 4.104000 | -36.28 | -23.28 | 7.0000 | 13.6000 | 1.000 | 10.222450 | -34.25 | -21.25 | 13.6000 | 19.1000 | 1.000 | 15.283687 | -24.18 | -11.18 |  <table border="1" data-bbox="877 1086 1276 1187"> <thead> <tr> <th>Start [MHz]</th> <th>Stop [MHz]</th> <th>RBW [Hz]</th> <th>Freq [MHz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr><td>30.0000</td><td>1.0000</td><td>1.000</td><td>141.792500</td><td>-35.85</td><td>-22.85</td></tr> <tr><td>1.0000</td><td>1.8450</td><td>1.000</td><td>1.308956</td><td>-39.66</td><td>-26.66</td></tr> <tr><td>1.8450</td><td>3.0000</td><td>1.000</td><td>2.982025</td><td>-39.19</td><td>-26.19</td></tr> <tr><td>3.0000</td><td>7.0000</td><td>1.000</td><td>3.021000</td><td>-36.49</td><td>-23.49</td></tr> <tr><td>7.0000</td><td>13.6000</td><td>1.000</td><td>10.222450</td><td>-32.75</td><td>-19.75</td></tr> <tr><td>13.6000</td><td>19.1000</td><td>1.000</td><td>15.389563</td><td>-24.36</td><td>-11.36</td></tr> </tbody> </table> <p>Date: 8.JAN.2020 10:20:04</p> | Start [MHz] | Stop [MHz] | RBW [Hz] | Freq [MHz] | PwrAve [dBm] | ΔLimit [dB] | 30.0000 | 1.0000 | 1.000 | 141.792500 | -35.85 | -22.85 | 1.0000 | 1.8450 | 1.000 | 1.308956 | -39.66 | -26.66 | 1.8450 | 3.0000 | 1.000 | 2.982025 | -39.19 | -26.19 | 3.0000 | 7.0000 | 1.000 | 3.021000 | -36.49 | -23.49 | 7.0000 | 13.6000 | 1.000 | 10.222450 | -32.75 | -19.75 | 13.6000 | 19.1000 | 1.000 | 15.389563 | -24.36 | -11.36 |
| Start [MHz] | Stop [MHz] | RBW [Hz] | Freq [MHz] | PwrAve [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.0000 | 1.0000 | 1.000 | 141.792500 | -30.73 | -17.73 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0000 | 1.8450 | 1.000 | 1.016324 | -40.11 | -27.11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.8450 | 3.0000 | 1.000 | 2.987016 | -39.31 | -26.31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0000 | 7.0000 | 1.000 | 4.104000 | -36.28 | -23.28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0000 | 13.6000 | 1.000 | 10.222450 | -34.25 | -21.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13.6000 | 19.1000 | 1.000 | 15.283687 | -24.18 | -11.18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Start [MHz] | Stop [MHz] | RBW [Hz] | Freq [MHz] | PwrAve [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.0000 | 1.0000 | 1.000 | 141.792500 | -35.85 | -22.85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0000 | 1.8450 | 1.000 | 1.308956 | -39.66 | -26.66 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.8450 | 3.0000 | 1.000 | 2.982025 | -39.19 | -26.19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0000 | 7.0000 | 1.000 | 3.021000 | -36.49 | -23.49 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0000 | 13.6000 | 1.000 | 10.222450 | -32.75 | -19.75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13.6000 | 19.1000 | 1.000 | 15.389563 | -24.36 | -11.36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Highest Channel | Highest Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="1" data-bbox="239 1601 638 1702"> <thead> <tr> <th>Start [MHz]</th> <th>Stop [MHz]</th> <th>RBW [Hz]</th> <th>Freq [MHz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr><td>30.0000</td><td>1.0000</td><td>1.000</td><td>171.862500</td><td>-34.21</td><td>-21.21</td></tr> <tr><td>1.0000</td><td>1.8450</td><td>1.000</td><td>1.273780</td><td>-40.46</td><td>-27.46</td></tr> <tr><td>1.8450</td><td>3.0000</td><td>1.000</td><td>1.932971</td><td>-39.29</td><td>-26.29</td></tr> <tr><td>3.0000</td><td>7.0000</td><td>1.000</td><td>3.761000</td><td>-36.31</td><td>-23.31</td></tr> <tr><td>7.0000</td><td>13.6000</td><td>1.000</td><td>10.537600</td><td>-33.94</td><td>-20.94</td></tr> <tr><td>13.6000</td><td>19.1000</td><td>1.000</td><td>15.280938</td><td>-24.74</td><td>-11.74</td></tr> </tbody> </table> <p>Date: 8.JAN.2020 09:46:53</p> | Start [MHz] | Stop [MHz] | RBW [Hz] | Freq [MHz] | PwrAve [dBm] | ΔLimit [dB] | 30.0000 | 1.0000 | 1.000 | 171.862500 | -34.21 | -21.21 | 1.0000 | 1.8450 | 1.000 | 1.273780 | -40.46 | -27.46 | 1.8450 | 3.0000 | 1.000 | 1.932971 | -39.29 | -26.29 | 3.0000 | 7.0000 | 1.000 | 3.761000 | -36.31 | -23.31 | 7.0000 | 13.6000 | 1.000 | 10.537600 | -33.94 | -20.94 | 13.6000 | 19.1000 | 1.000 | 15.280938 | -24.74 | -11.74 |  <table border="1" data-bbox="877 1601 1276 1702"> <thead> <tr> <th>Start [MHz]</th> <th>Stop [MHz]</th> <th>RBW [Hz]</th> <th>Freq [MHz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr><td>30.0000</td><td>1.0000</td><td>1.000</td><td>171.862500</td><td>-39.37</td><td>-26.37</td></tr> <tr><td>1.0000</td><td>1.8450</td><td>1.000</td><td>1.287723</td><td>-40.26</td><td>-27.26</td></tr> <tr><td>1.8450</td><td>3.0000</td><td>1.000</td><td>1.932971</td><td>-39.10</td><td>-26.10</td></tr> <tr><td>3.0000</td><td>7.0000</td><td>1.000</td><td>3.188000</td><td>-36.80</td><td>-23.80</td></tr> <tr><td>7.0000</td><td>13.6000</td><td>1.000</td><td>13.476250</td><td>-34.24</td><td>-21.24</td></tr> <tr><td>13.6000</td><td>19.1000</td><td>1.000</td><td>15.290563</td><td>-24.87</td><td>-11.87</td></tr> </tbody> </table> <p>Date: 8.JAN.2020 10:20:55</p> | Start [MHz] | Stop [MHz] | RBW [Hz] | Freq [MHz] | PwrAve [dBm] | ΔLimit [dB] | 30.0000 | 1.0000 | 1.000 | 171.862500 | -39.37 | -26.37 | 1.0000 | 1.8450 | 1.000 | 1.287723 | -40.26 | -27.26 | 1.8450 | 3.0000 | 1.000 | 1.932971 | -39.10 | -26.10 | 3.0000 | 7.0000 | 1.000 | 3.188000 | -36.80 | -23.80 | 7.0000 | 13.6000 | 1.000 | 13.476250 | -34.24 | -21.24 | 13.6000 | 19.1000 | 1.000 | 15.290563 | -24.87 | -11.87 |
| Start [MHz] | Stop [MHz] | RBW [Hz] | Freq [MHz] | PwrAve [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.0000 | 1.0000 | 1.000 | 171.862500 | -34.21 | -21.21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0000 | 1.8450 | 1.000 | 1.273780 | -40.46 | -27.46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.8450 | 3.0000 | 1.000 | 1.932971 | -39.29 | -26.29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0000 | 7.0000 | 1.000 | 3.761000 | -36.31 | -23.31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0000 | 13.6000 | 1.000 | 10.537600 | -33.94 | -20.94 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13.6000 | 19.1000 | 1.000 | 15.280938 | -24.74 | -11.74 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Start [MHz] | Stop [MHz] | RBW [Hz] | Freq [MHz] | PwrAve [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.0000 | 1.0000 | 1.000 | 171.862500 | -39.37 | -26.37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0000 | 1.8450 | 1.000 | 1.287723 | -40.26 | -27.26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.8450 | 3.0000 | 1.000 | 1.932971 | -39.10 | -26.10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0000 | 7.0000 | 1.000 | 3.188000 | -36.80 | -23.80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0000 | 13.6000 | 1.000 | 13.476250 | -34.24 | -21.24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13.6000 | 19.1000 | 1.000 | 15.290563 | -24.87 | -11.87 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Frequency Stability

| Test Conditions | Middle Channel | GSM850 (GPRS class 8) | GSM850 (EDGE class 8) | Limit 2.5ppm |
|------------------|-------------------|--------------------------|--------------------------|-----------------|
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | | Result |
| 50 | Normal Voltage | 0.0036 | 0.0024 | PASS |
| 40 | Normal Voltage | 0.0072 | 0.0000 | |
| 30 | Normal Voltage | 0.0000 | 0.0000 | |
| 20(Ref.) | Normal Voltage | 0.0000 | 0.0000 | |
| 10 | Normal Voltage | 0.0024 | 0.0012 | |
| 0 | Normal Voltage | 0.0024 | 0.0012 | |
| -10 | Normal Voltage | 0.0012 | 0.0108 | |
| -20 | Normal Voltage | 0.0000 | 0.0060 | |
| -30 | Normal Voltage | 0.0012 | 0.0108 | |
| 20 | Maximum Voltage | 0.0084 | 0.0000 | |
| 20 | Normal Voltage | 0.0000 | 0.0000 | |
| 20 | Battery End Point | 0.0096 | 0.0012 | |



| Test Conditions | Middle Channel | GSM1900 (GPRS class 8) | GSM1900 (EDGE class 8) | Limit Note 2. |
|------------------|-------------------|---------------------------|---------------------------|------------------|
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | | Result |
| 50 | Normal Voltage | 0.0000 | 0.0011 | PASS |
| 40 | Normal Voltage | 0.0000 | 0.0005 | |
| 30 | Normal Voltage | 0.0000 | 0.0000 | |
| 20(Ref.) | Normal Voltage | 0.0000 | 0.0000 | |
| 10 | Normal Voltage | 0.0000 | 0.0011 | |
| 0 | Normal Voltage | 0.0005 | 0.0016 | |
| -10 | Normal Voltage | 0.0011 | 0.0255 | |
| -20 | Normal Voltage | 0.0011 | 0.0261 | |
| -30 | Normal Voltage | 0.0011 | 0.0021 | |
| 20 | Maximum Voltage | 0.0005 | 0.0011 | |
| 20 | Normal Voltage | 0.0000 | 0.0000 | |
| 20 | Battery End Point | 0.0032 | 0.0021 | |

Note:

- 1. Normal Voltage = 3.9V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.35 V
- 2. The frequency fundamental emissions stay within the authorized frequency block..

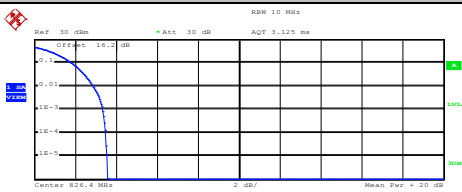
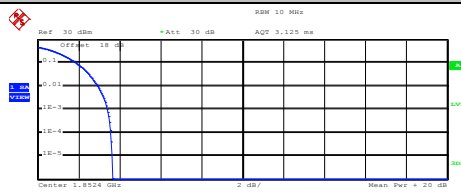
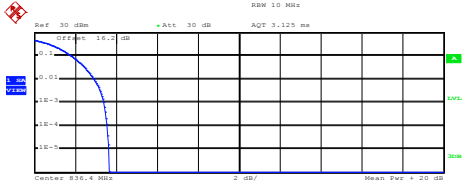
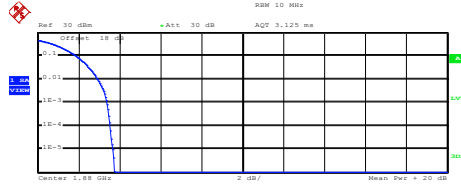

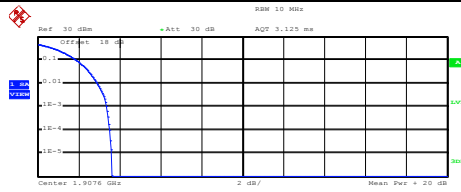


A3. WCDMA

Peak-to-Average Ratio

| Mode | WCDMA Band V | WCDMA Band II | Limit: 13dB |
|------------|--------------|---------------|-------------|
| Mod. | RMC 12.2Kbps | RMC 12.2Kbps | Result |
| Lowest CH | 3.36 | 3.40 | PASS |
| Middle CH | 3.40 | 3.40 | |
| Highest CH | 3.52 | 3.36 | |



| WCDMA Band V (RMC 12.2Kbps) | WCDMA Band II (RMC 12.2Kbps) | | | | | | | | | | | | | | | | |
|---|------------------------------|---------|-----|---------|------|---------|-------|---------|---|------|---------|-----|---------|------|---------|-------|---------|
| <p 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 22.86 dBm Peak 26.44 dBm Crest 3.58 dB</p> <table border="1"> <tr><td>10 %</td><td>1.84 dB</td></tr> <tr><td>1 %</td><td>2.88 dB</td></tr> <tr><td>.1 %</td><td>3.36 dB</td></tr> <tr><td>.01 %</td><td>3.48 dB</td></tr> </table> <p>Date: 8.JAN.2020 11:03:50</p> | 10 % | 1.84 dB | 1 % | 2.88 dB | .1 % | 3.36 dB | .01 % | 3.48 dB | <p 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 23.12 dBm Peak 26.79 dBm Crest 3.67 dB</p> <table border="1"> <tr><td>10 %</td><td>1.88 dB</td></tr> <tr><td>1 %</td><td>2.92 dB</td></tr> <tr><td>.1 %</td><td>3.40 dB</td></tr> <tr><td>.01 %</td><td>3.56 dB</td></tr> </table> <p>Date: 8.JAN.2020 10:49:07</p> | 10 % | 1.88 dB | 1 % | 2.92 dB | .1 % | 3.40 dB | .01 % | 3.56 dB |
| 10 % | 1.84 dB | | | | | | | | | | | | | | | | |
| 1 % | 2.88 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.36 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.48 dB | | | | | | | | | | | | | | | | |
| 10 % | 1.88 dB | | | | | | | | | | | | | | | | |
| 1 % | 2.92 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.40 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.56 dB | | | | | | | | | | | | | | | | |
| <p align="center">Middle Channel</p>  <p>Center 836.4 MHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.85 dBm Peak 26.51 dBm Crest 3.66 dB</p> <table border="1"> <tr><td>10 %</td><td>1.84 dB</td></tr> <tr><td>1 %</td><td>2.92 dB</td></tr> <tr><td>.1 %</td><td>3.40 dB</td></tr> <tr><td>.01 %</td><td>3.56 dB</td></tr> </table> <p>Date: 8.JAN.2020 11:04:03</p> | 10 % | 1.84 dB | 1 % | 2.92 dB | .1 % | 3.40 dB | .01 % | 3.56 dB | <p align="center">Middle Channel</p>  <p>Center 1.88 GHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.05 dBm Peak 26.79 dBm Crest 3.74 dB</p> <table border="1"> <tr><td>10 %</td><td>1.88 dB</td></tr> <tr><td>1 %</td><td>2.92 dB</td></tr> <tr><td>.1 %</td><td>3.40 dB</td></tr> <tr><td>.01 %</td><td>3.56 dB</td></tr> </table> <p>Date: 8.JAN.2020 10:49:22</p> | 10 % | 1.88 dB | 1 % | 2.92 dB | .1 % | 3.40 dB | .01 % | 3.56 dB |
| 10 % | 1.84 dB | | | | | | | | | | | | | | | | |
| 1 % | 2.92 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.40 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.56 dB | | | | | | | | | | | | | | | | |
| 10 % | 1.88 dB | | | | | | | | | | | | | | | | |
| 1 % | 2.92 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.40 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.56 dB | | | | | | | | | | | | | | | | |
| <p 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 22.85 dBm Peak 26.65 dBm Crest 3.80 dB</p> <table border="1"> <tr><td>10 %</td><td>1.88 dB</td></tr> <tr><td>1 %</td><td>3.00 dB</td></tr> <tr><td>.1 %</td><td>3.52 dB</td></tr> <tr><td>.01 %</td><td>3.72 dB</td></tr> </table> <p>Date: 8.JAN.2020 11:04:17</p> | 10 % | 1.88 dB | 1 % | 3.00 dB | .1 % | 3.52 dB | .01 % | 3.72 dB | <p 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 23.10 dBm Peak 26.72 dBm Crest 3.62 dB</p> <table border="1"> <tr><td>10 %</td><td>1.88 dB</td></tr> <tr><td>1 %</td><td>2.92 dB</td></tr> <tr><td>.1 %</td><td>3.36 dB</td></tr> <tr><td>.01 %</td><td>3.52 dB</td></tr> </table> <p>Date: 8.JAN.2020 10:49:37</p> | 10 % | 1.88 dB | 1 % | 2.92 dB | .1 % | 3.36 dB | .01 % | 3.52 dB |
| 10 % | 1.88 dB | | | | | | | | | | | | | | | | |
| 1 % | 3.00 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.52 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.72 dB | | | | | | | | | | | | | | | | |
| 10 % | 1.88 dB | | | | | | | | | | | | | | | | |
| 1 % | 2.92 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.36 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.52 dB | | | | | | | | | | | | | | | | |



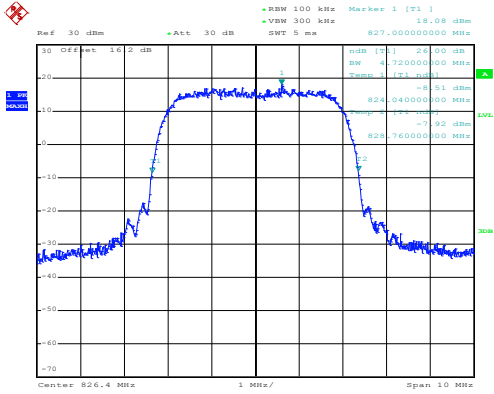
26dB Bandwidth

| Mode | WCDMA Band V 26dB BW(MHz) | WCDMA Band II 26dB BW(MHz) |
|------------|------------------------------|-------------------------------|
| Mod. | RMC 12.2Kbps | RMC 12.2Kbps |
| Lowest CH | 4.72 | 4.70 |
| Middle CH | 4.71 | 4.71 |
| Highest CH | 4.73 | 4.72 |



WCDMA Band V (RMC 12.2Kbps)

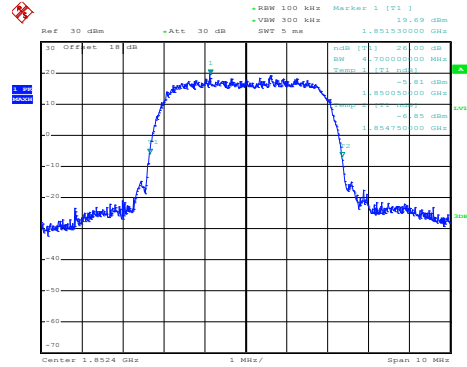
Lowest Channel



Date: 8.JAN.2020 10:58:54

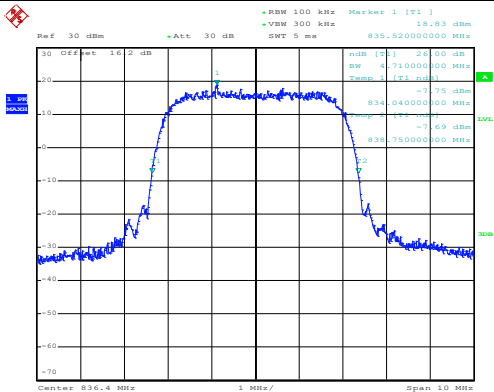
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



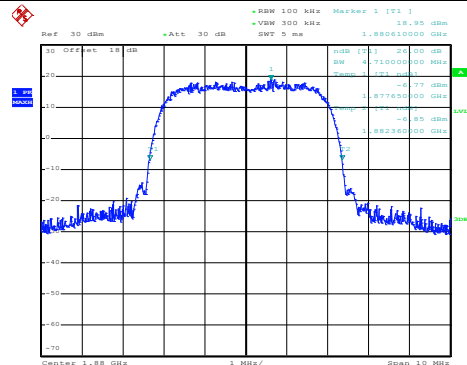
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Middle Channel



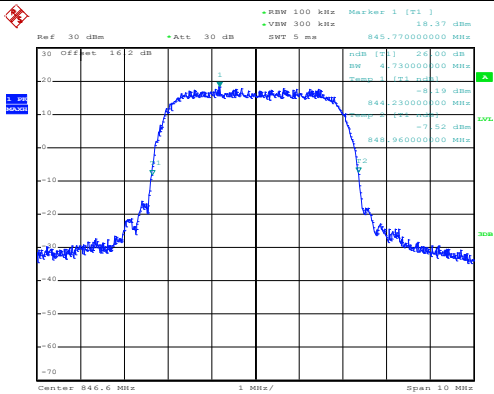
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Middle Channel



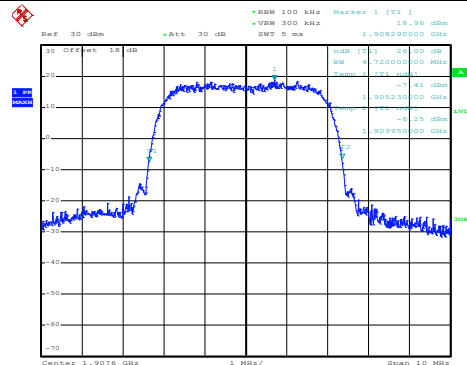
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Highest Channel



Date: 8.JAN.2020 11:00:42

Highest Channel

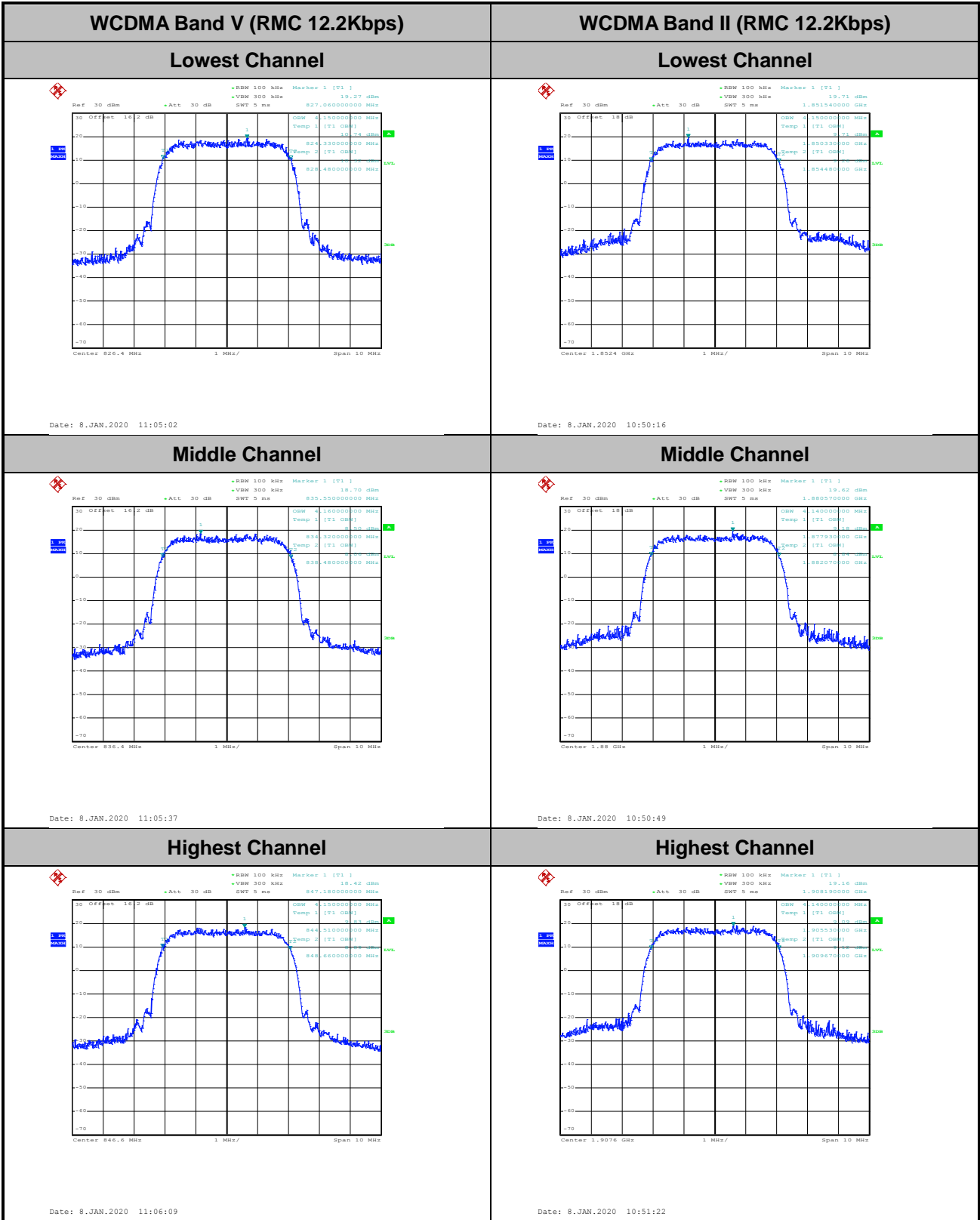


Date: 8.JAN.2020 10:46:14



Occupied Bandwidth

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

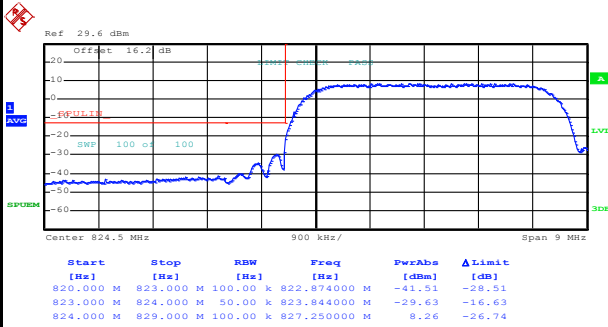




Conducted Band Edge

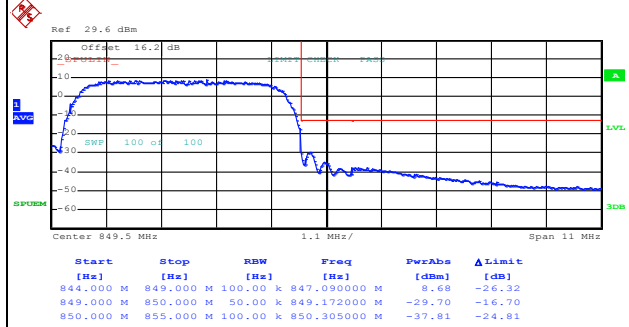
WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge



Date: 8.JAN.2020 11:08:58

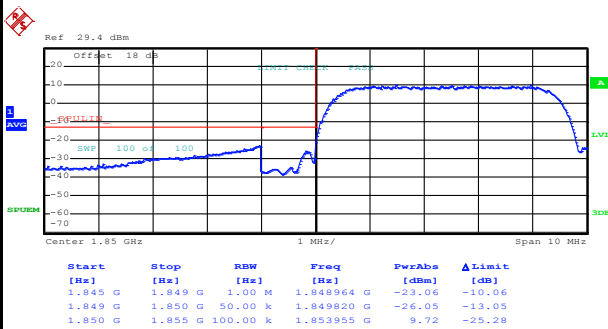
Highest Band Edge



Date: 8.JAN.2020 11:11:47

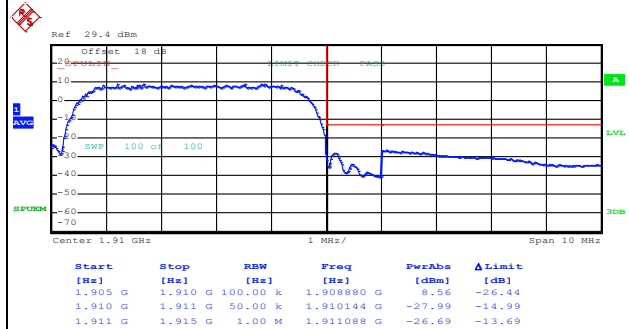
WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



Date: 8.JAN.2020 10:54:15

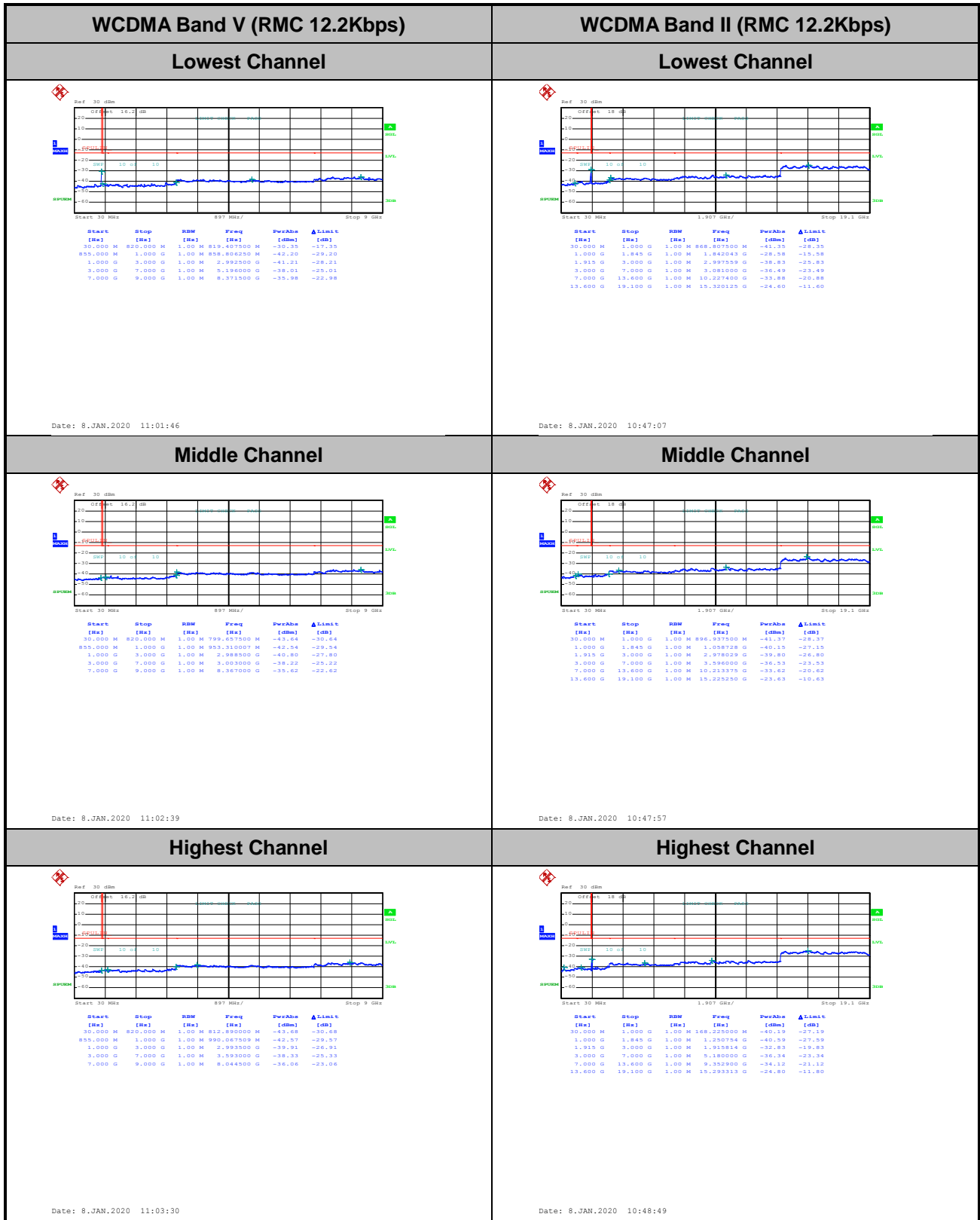
Highest Band Edge



Date: 8.JAN.2020 10:57:02



Conducted Spurious Emission





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 | 0.0000 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0000 | |
| 0 | Normal Voltage | 0.0000 | |
| -10 | Normal Voltage | 0.0000 | |
| -20 | Normal Voltage | 0.0012 | |
| -30 | Normal Voltage | 0.0132 | |
| 20 | Maximum Voltage | 0.0012 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0000 | |



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

Note:

- 1. Normal Voltage = 3.9V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.35V
- 2. The frequency fundamental emissions stay within the authorized frequency block.

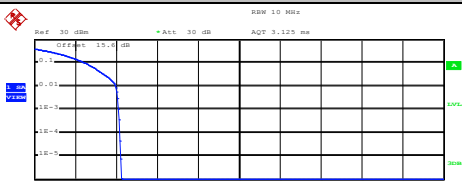
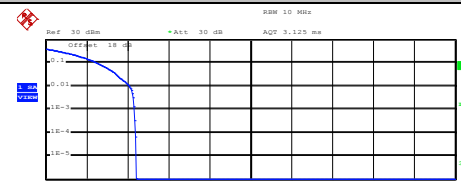
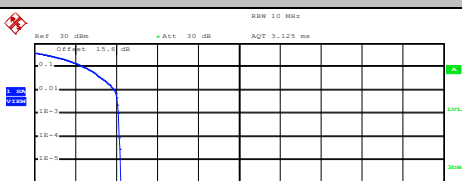
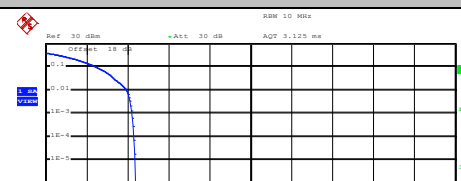
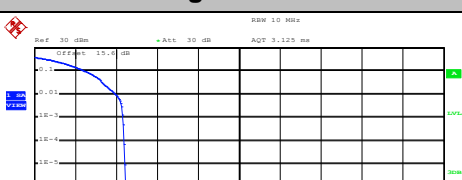
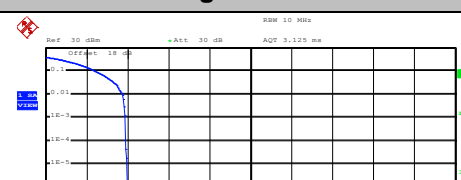


A4. CDMA

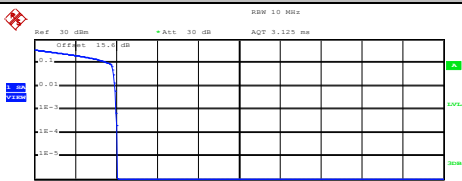
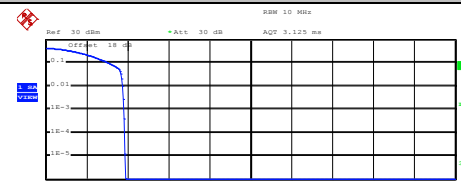
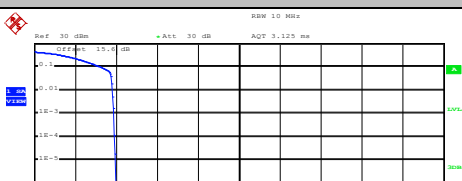
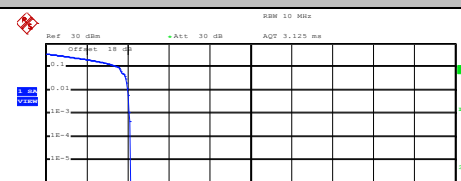
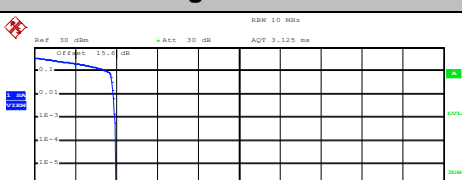
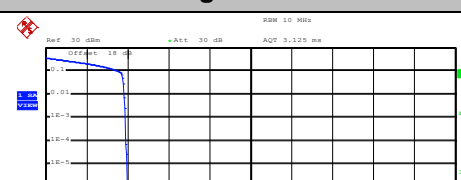
Peak-to-Average Ratio

| Mode | CDMA BC0 | CDMA BC1 | Limit: 13dB |
|------------|----------------|----------------|-------------|
| Mod. | 1xRTT | 1xRTT | Result |
| Lowest CH | 4.12 | 4.32 | PASS |
| Middle CH | 4.12 | 4.24 | |
| Highest CH | 4.32 | 3.88 | |
| Mode | CDMA BC0 | CDMA BC1 | Limit: 13dB |
| Mod. | 1xEV-DO Rev. 0 | 1xEV-DO Rev. 0 | Result |
| Lowest CH | 4.00 | 3.84 | PASS |
| Middle CH | 3.88 | 4.08 | |
| Highest CH | 3.96 | 3.92 | |



| CDMA BC0 (1xRTT) | CDMA BC1 (1xRTT) | | | | | | | | | | | | | | | | |
|---|------------------|---------|-----|---------|------|---------|-------|---------|---|------|---------|-----|---------|------|---------|-------|---------|
| <p style="text-align: center;">Lowest Channel</p>  <p>Center 824.7 MHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.06 dBm Peak 26.30 dBm Crest 4.24 dB</p> <table border="1"> <tr><td>10 %</td><td>2.52 dB</td></tr> <tr><td>1 %</td><td>4.00 dB</td></tr> <tr><td>.1 %</td><td>4.12 dB</td></tr> <tr><td>.01 %</td><td>4.20 dB</td></tr> </table> <p>Date: 8.JAN.2020 15:17:46</p> | 10 % | 2.52 dB | 1 % | 4.00 dB | .1 % | 4.12 dB | .01 % | 4.20 dB | <p style="text-align: center;">Lowest Channel</p>  <p>Center 1.85125 GHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.39 dBm Peak 26.79 dBm Crest 4.40 dB</p> <table border="1"> <tr><td>10 %</td><td>2.56 dB</td></tr> <tr><td>1 %</td><td>4.08 dB</td></tr> <tr><td>.1 %</td><td>4.32 dB</td></tr> <tr><td>.01 %</td><td>4.40 dB</td></tr> </table> <p>Date: 8.JAN.2020 15:58:59</p> | 10 % | 2.56 dB | 1 % | 4.08 dB | .1 % | 4.32 dB | .01 % | 4.40 dB |
| 10 % | 2.52 dB | | | | | | | | | | | | | | | | |
| 1 % | 4.00 dB | | | | | | | | | | | | | | | | |
| .1 % | 4.12 dB | | | | | | | | | | | | | | | | |
| .01 % | 4.20 dB | | | | | | | | | | | | | | | | |
| 10 % | 2.56 dB | | | | | | | | | | | | | | | | |
| 1 % | 4.08 dB | | | | | | | | | | | | | | | | |
| .1 % | 4.32 dB | | | | | | | | | | | | | | | | |
| .01 % | 4.40 dB | | | | | | | | | | | | | | | | |
| <p style="text-align: center;">Middle Channel</p>  <p>Center 836.52 MHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.10 dBm Peak 25.31 dBm Crest 4.21 dB</p> <table border="1"> <tr><td>10 %</td><td>2.48 dB</td></tr> <tr><td>1 %</td><td>3.92 dB</td></tr> <tr><td>.1 %</td><td>4.12 dB</td></tr> <tr><td>.01 %</td><td>4.16 dB</td></tr> </table> <p>Date: 8.JAN.2020 15:18:00</p> | 10 % | 2.48 dB | 1 % | 3.92 dB | .1 % | 4.12 dB | .01 % | 4.16 dB | <p style="text-align: center;">Middle Channel</p>  <p>Center 1.88 GHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.58 dBm Peak 25.95 dBm Crest 4.37 dB</p> <table border="1"> <tr><td>10 %</td><td>2.52 dB</td></tr> <tr><td>1 %</td><td>3.96 dB</td></tr> <tr><td>.1 %</td><td>4.24 dB</td></tr> <tr><td>.01 %</td><td>4.32 dB</td></tr> </table> <p>Date: 8.JAN.2020 15:59:12</p> | 10 % | 2.52 dB | 1 % | 3.96 dB | .1 % | 4.24 dB | .01 % | 4.32 dB |
| 10 % | 2.48 dB | | | | | | | | | | | | | | | | |
| 1 % | 3.92 dB | | | | | | | | | | | | | | | | |
| .1 % | 4.12 dB | | | | | | | | | | | | | | | | |
| .01 % | 4.16 dB | | | | | | | | | | | | | | | | |
| 10 % | 2.52 dB | | | | | | | | | | | | | | | | |
| 1 % | 3.96 dB | | | | | | | | | | | | | | | | |
| .1 % | 4.24 dB | | | | | | | | | | | | | | | | |
| .01 % | 4.32 dB | | | | | | | | | | | | | | | | |
| <p style="text-align: center;">Highest Channel</p>  <p>Center 848.31 MHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.06 dBm Peak 25.52 dBm Crest 4.47 dB</p> <table border="1"> <tr><td>10 %</td><td>2.52 dB</td></tr> <tr><td>1 %</td><td>3.96 dB</td></tr> <tr><td>.1 %</td><td>4.32 dB</td></tr> <tr><td>.01 %</td><td>4.40 dB</td></tr> </table> <p>Date: 8.JAN.2020 15:18:12</p> | 10 % | 2.52 dB | 1 % | 3.96 dB | .1 % | 4.32 dB | .01 % | 4.40 dB | <p style="text-align: center;">Highest Channel</p>  <p>Center 1.90875 GHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.53 dBm Peak 26.51 dBm Crest 3.98 dB</p> <table border="1"> <tr><td>10 %</td><td>2.48 dB</td></tr> <tr><td>1 %</td><td>3.76 dB</td></tr> <tr><td>.1 %</td><td>3.88 dB</td></tr> <tr><td>.01 %</td><td>3.92 dB</td></tr> </table> <p>Date: 8.JAN.2020 15:59:25</p> | 10 % | 2.48 dB | 1 % | 3.76 dB | .1 % | 3.88 dB | .01 % | 3.92 dB |
| 10 % | 2.52 dB | | | | | | | | | | | | | | | | |
| 1 % | 3.96 dB | | | | | | | | | | | | | | | | |
| .1 % | 4.32 dB | | | | | | | | | | | | | | | | |
| .01 % | 4.40 dB | | | | | | | | | | | | | | | | |
| 10 % | 2.48 dB | | | | | | | | | | | | | | | | |
| 1 % | 3.76 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.88 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.92 dB | | | | | | | | | | | | | | | | |



| CDMA BC0 (1xEV-DO Rev. 0) | CDMA BC1 (1xEV-DO Rev. 0) | | | | | | | | | | | | | | | | |
|--|---------------------------|---------|-----|---------|------|---------|-------|---------|--|------|---------|-----|---------|------|---------|-------|---------|
| <p align="center">Lowest Channel</p>  <p>Center 824.7 MHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.88 dBm Peak 26.93 dBm Crest 4.05 dB</p> <table border="1"> <tr><td>10 %</td><td>3.64 dB</td></tr> <tr><td>1 %</td><td>3.96 dB</td></tr> <tr><td>.1 %</td><td>4.00 dB</td></tr> <tr><td>.01 %</td><td>4.08 dB</td></tr> </table> <p>Date: 8.JAN.2020 14:11:48</p> | 10 % | 3.64 dB | 1 % | 3.96 dB | .1 % | 4.00 dB | .01 % | 4.08 dB | <p align="center">Lowest Channel</p>  <p>Center 1.85123 GHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.27 dBm Peak 27.15 dBm Crest 3.87 dB</p> <table border="1"> <tr><td>10 %</td><td>3.12 dB</td></tr> <tr><td>1 %</td><td>3.76 dB</td></tr> <tr><td>.1 %</td><td>3.84 dB</td></tr> <tr><td>.01 %</td><td>3.88 dB</td></tr> </table> <p>Date: 8.JAN.2020 14:29:01</p> | 10 % | 3.12 dB | 1 % | 3.76 dB | .1 % | 3.84 dB | .01 % | 3.88 dB |
| 10 % | 3.64 dB | | | | | | | | | | | | | | | | |
| 1 % | 3.96 dB | | | | | | | | | | | | | | | | |
| .1 % | 4.00 dB | | | | | | | | | | | | | | | | |
| .01 % | 4.08 dB | | | | | | | | | | | | | | | | |
| 10 % | 3.12 dB | | | | | | | | | | | | | | | | |
| 1 % | 3.76 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.84 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.88 dB | | | | | | | | | | | | | | | | |
| <p align="center">Middle Channel</p>  <p>Center 836.52 MHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.98 dBm Peak 26.93 dBm Crest 3.96 dB</p> <table border="1"> <tr><td>10 %</td><td>3.32 dB</td></tr> <tr><td>1 %</td><td>3.84 dB</td></tr> <tr><td>.1 %</td><td>3.88 dB</td></tr> <tr><td>.01 %</td><td>3.92 dB</td></tr> </table> <p>Date: 8.JAN.2020 14:12:02</p> | 10 % | 3.32 dB | 1 % | 3.84 dB | .1 % | 3.88 dB | .01 % | 3.92 dB | <p align="center">Middle Channel</p>  <p>Center 1.88 GHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.00 dBm Peak 27.15 dBm Crest 4.14 dB</p> <table border="1"> <tr><td>10 %</td><td>3.56 dB</td></tr> <tr><td>1 %</td><td>4.00 dB</td></tr> <tr><td>.1 %</td><td>4.08 dB</td></tr> <tr><td>.01 %</td><td>4.16 dB</td></tr> </table> <p>Date: 8.JAN.2020 14:29:15</p> | 10 % | 3.56 dB | 1 % | 4.00 dB | .1 % | 4.08 dB | .01 % | 4.16 dB |
| 10 % | 3.32 dB | | | | | | | | | | | | | | | | |
| 1 % | 3.84 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.88 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.92 dB | | | | | | | | | | | | | | | | |
| 10 % | 3.56 dB | | | | | | | | | | | | | | | | |
| 1 % | 4.00 dB | | | | | | | | | | | | | | | | |
| .1 % | 4.08 dB | | | | | | | | | | | | | | | | |
| .01 % | 4.16 dB | | | | | | | | | | | | | | | | |
| <p align="center">Highest Channel</p>  <p>Center 848.31 MHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.02 dBm Peak 27.01 dBm Crest 3.98 dB</p> <table border="1"> <tr><td>10 %</td><td>3.56 dB</td></tr> <tr><td>1 %</td><td>3.88 dB</td></tr> <tr><td>.1 %</td><td>3.96 dB</td></tr> <tr><td>.01 %</td><td>4.00 dB</td></tr> </table> <p>Date: 8.JAN.2020 14:12:14</p> | 10 % | 3.56 dB | 1 % | 3.88 dB | .1 % | 3.96 dB | .01 % | 4.00 dB | <p align="center">Highest Channel</p>  <p>Center 1.90875 GHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.75 dBm Peak 26.72 dBm Crest 3.98 dB</p> <table border="1"> <tr><td>10 %</td><td>3.56 dB</td></tr> <tr><td>1 %</td><td>3.84 dB</td></tr> <tr><td>.1 %</td><td>3.92 dB</td></tr> <tr><td>.01 %</td><td>3.92 dB</td></tr> </table> <p>Date: 8.JAN.2020 14:29:31</p> | 10 % | 3.56 dB | 1 % | 3.84 dB | .1 % | 3.92 dB | .01 % | 3.92 dB |
| 10 % | 3.56 dB | | | | | | | | | | | | | | | | |
| 1 % | 3.88 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.96 dB | | | | | | | | | | | | | | | | |
| .01 % | 4.00 dB | | | | | | | | | | | | | | | | |
| 10 % | 3.56 dB | | | | | | | | | | | | | | | | |
| 1 % | 3.84 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.92 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.92 dB | | | | | | | | | | | | | | | | |



26dB Bandwidth

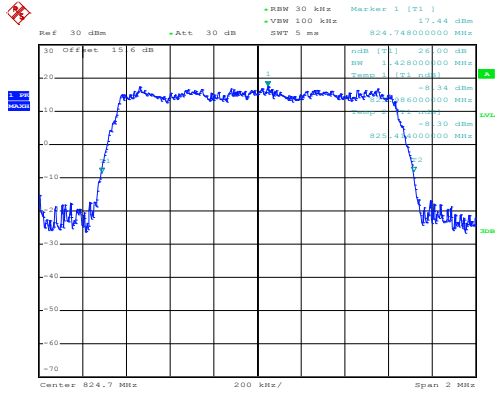
| Mode | CDMA BC0 26dB BW(MHz) | CDMA BC1 26dB BW(MHz) |
|------------|--------------------------|--------------------------|
| Mod. | 1xRTT | 1xRTT |
| Lowest CH | 1.43 | 1.43 |
| Middle CH | 1.43 | 1.43 |
| Highest CH | 1.43 | 1.43 |

| Mode | CDMA BC0 26dB BW(MHz) | CDMA BC1 26dB BW(MHz) |
|------------|--------------------------|--------------------------|
| Mod. | 1xEV-DO Rev. 0 | 1xEV-DO Rev. 0 |
| Lowest CH | 1.43 | 1.43 |
| Middle CH | 1.44 | 1.43 |
| Highest CH | 1.45 | 1.44 |



CDMA BC0 (1xRTT)

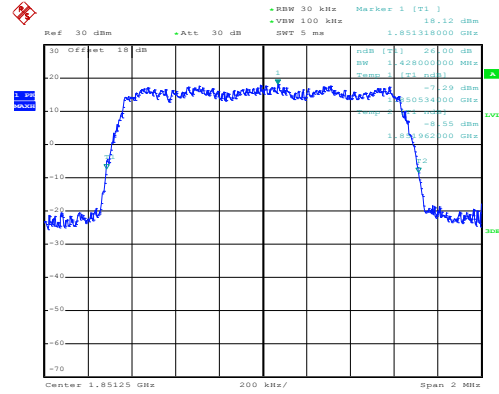
Lowest Channel



Date: 8.JAN.2020 15:13:28

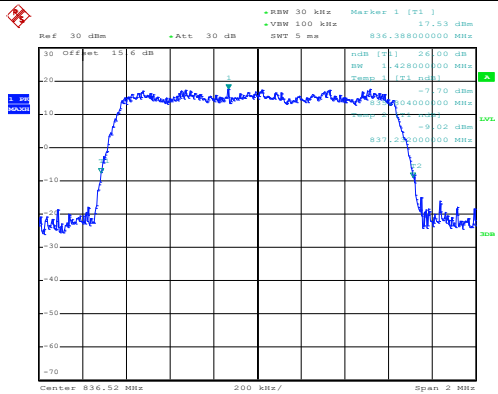
CDMA BC1 (1xRTT)

Lowest Channel



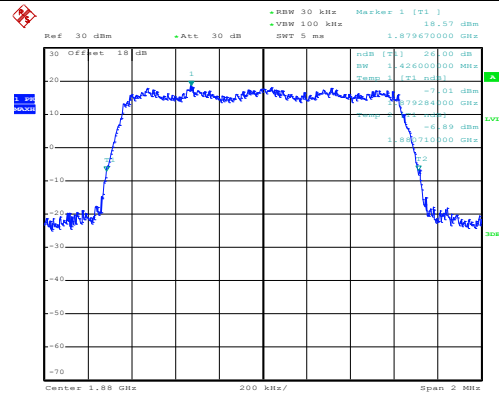
Date: 8.JAN.2020 15:47:09

Middle Channel



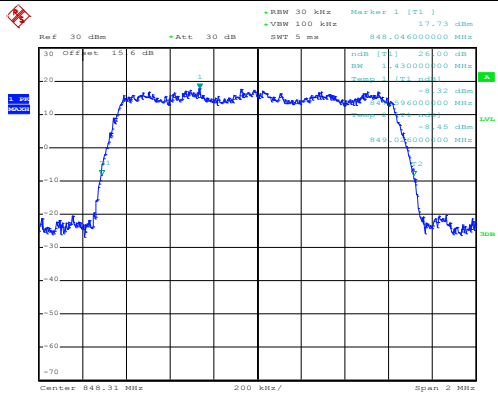
Date: 8.JAN.2020 15:14:04

Middle Channel



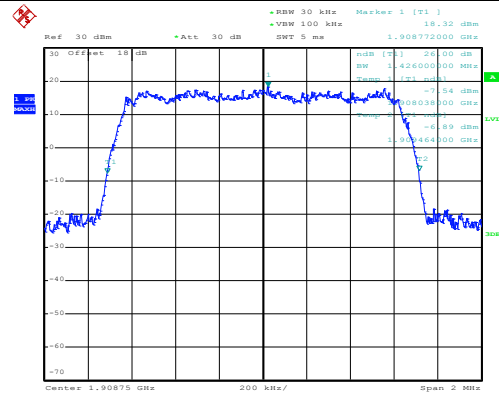
Date: 8.JAN.2020 15:48:05

Highest Channel

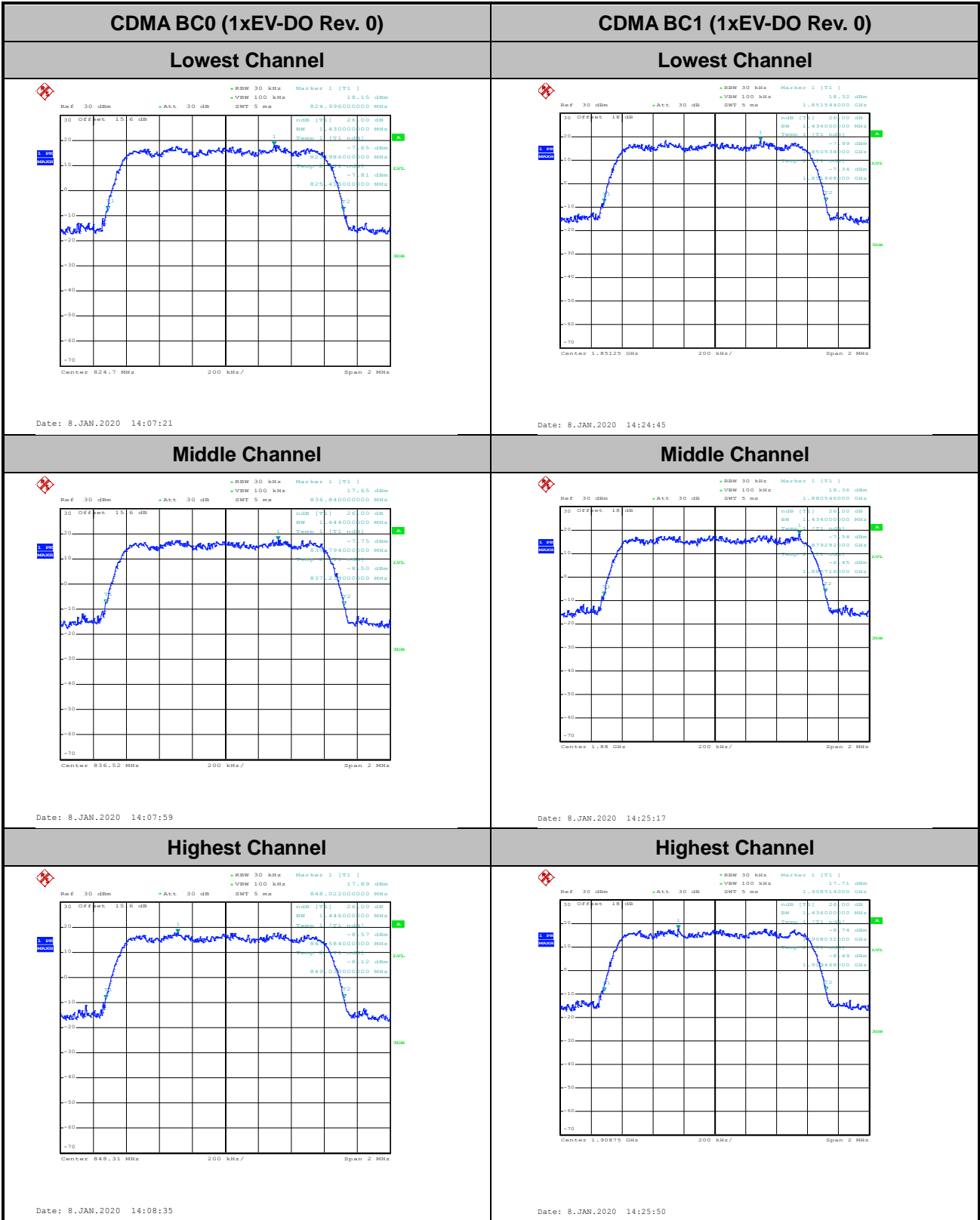


Date: 8.JAN.2020 15:14:41

Highest Channel



Date: 8.JAN.2020 15:48:44





Occupied Bandwidth

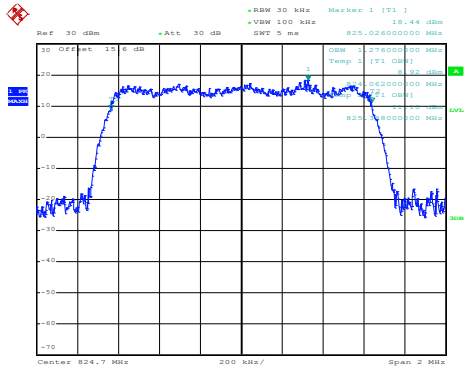
| Mode | CDMA BC0 99% OBW(MHz) | CDMA BC1 99% OBW(MHz) |
|------------|--------------------------|--------------------------|
| Mod. | 1xRTT | 1xRTT |
| Lowest CH | 1.28 | 1.27 |
| Middle CH | 1.28 | 1.28 |
| Highest CH | 1.28 | 1.28 |

| Mode | CDMA BC0 99% OBW(MHz) | CDMA BC1 99% OBW(MHz) |
|------------|--------------------------|--------------------------|
| Mod. | 1xEV-DO Rev. 0 | 1xEV-DO Rev. 0 |
| Lowest CH | 1.28 | 1.28 |
| Middle CH | 1.28 | 1.28 |
| Highest CH | 1.28 | 1.28 |



CDMA BC0 (1xRTT)

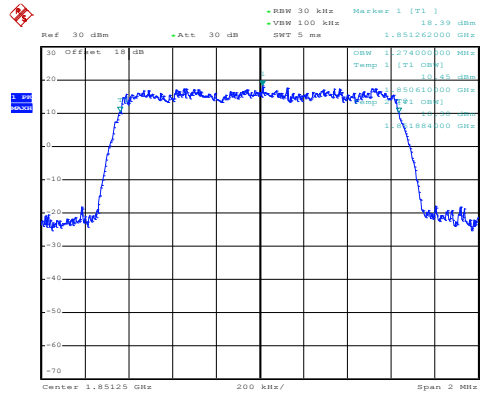
Lowest Channel



Date: 8.JAN.2020 15:18:52

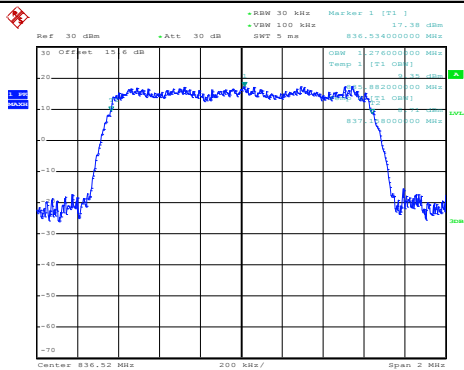
CDMA BC1 (1xRTT)

Lowest Channel



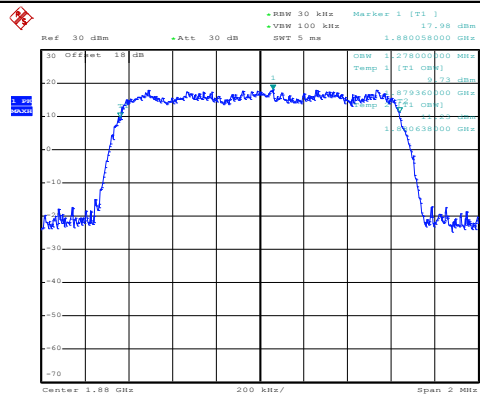
Date: 8.JAN.2020 15:49:21

Middle Channel



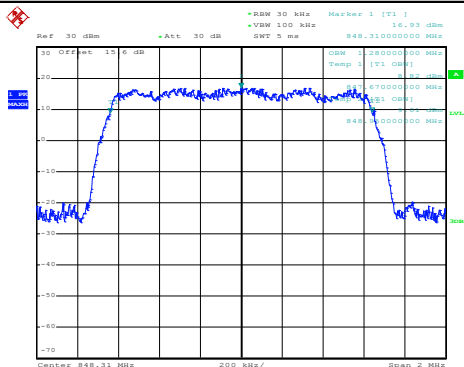
Date: 8.JAN.2020 15:19:28

Middle Channel



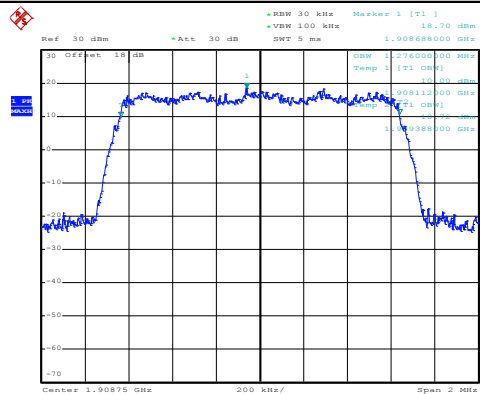
Date: 8.JAN.2020 15:49:58

Highest Channel

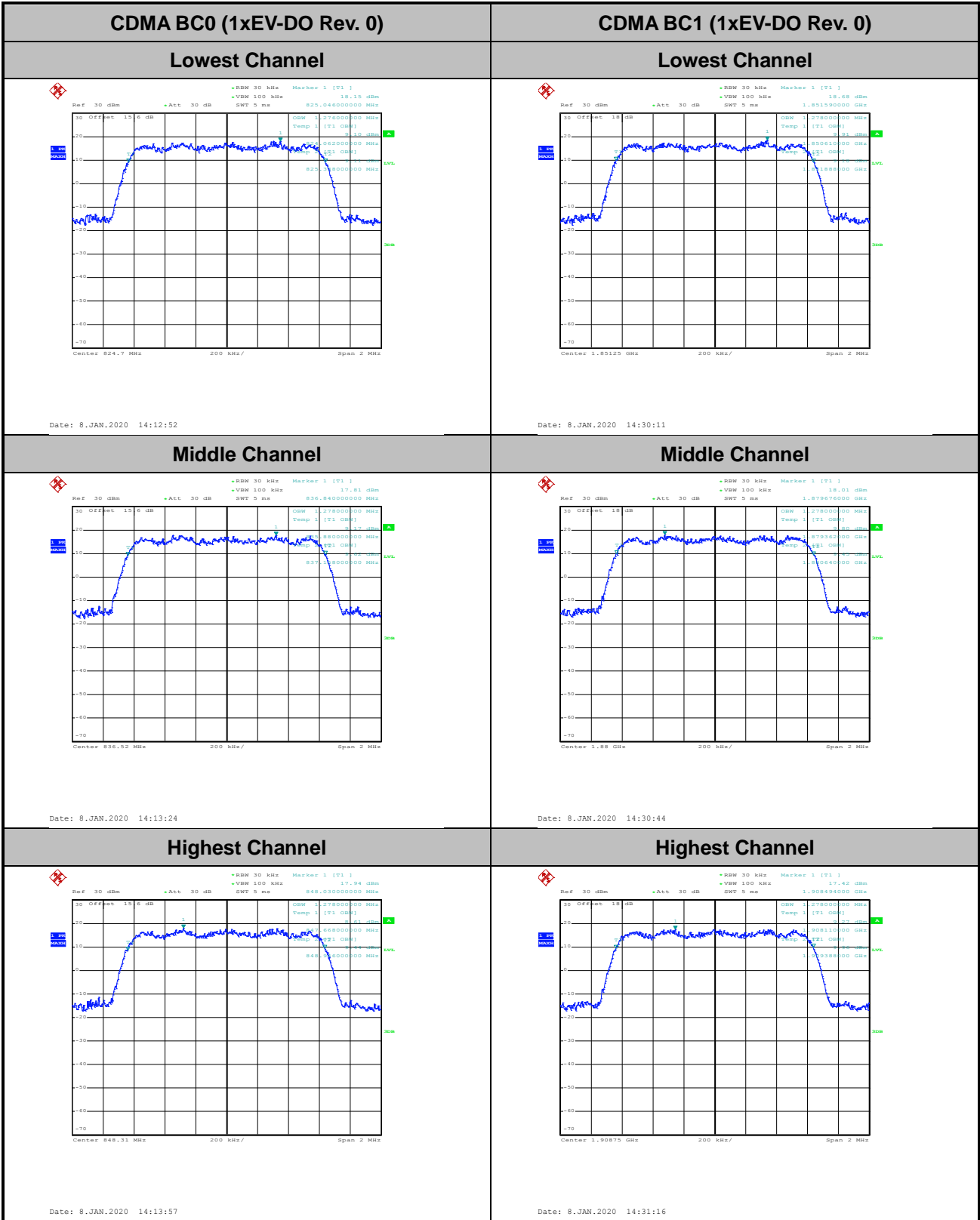


Date: 8.JAN.2020 15:20:01

Highest Channel



Date: 8.JAN.2020 15:50:31

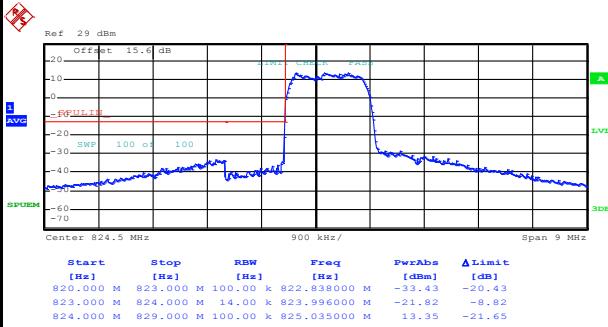




Conducted Band Edge

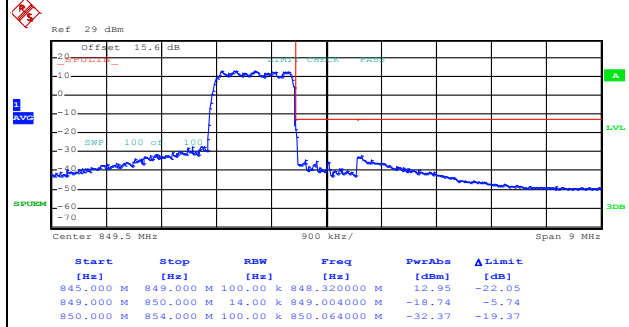
CDMA BC0 (1xRTT)

Lowest Band Edge



Date: 8.JAN.2020 15:23:13

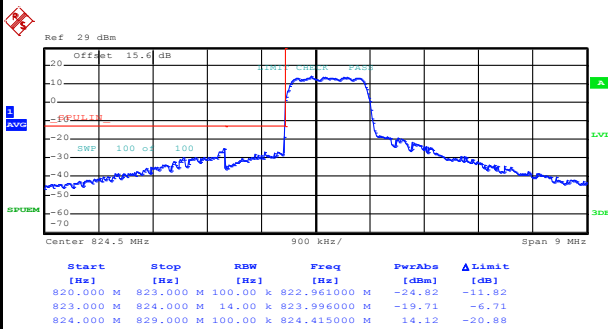
Highest Band Edge



Date: 8.JAN.2020 15:26:01

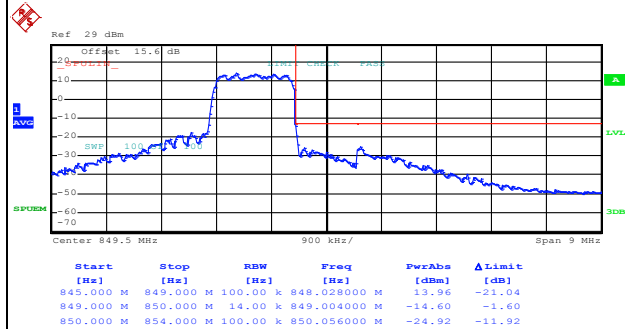
CDMA BC0 (1xEV-DO Rev. 0)

Lowest Band Edge



Date: 8.JAN.2020 14:16:58

Highest Band Edge

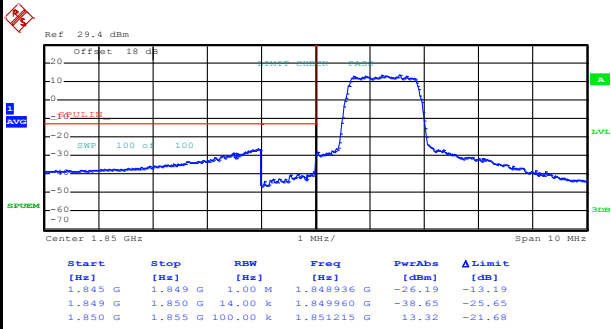


Date: 8.JAN.2020 14:19:49



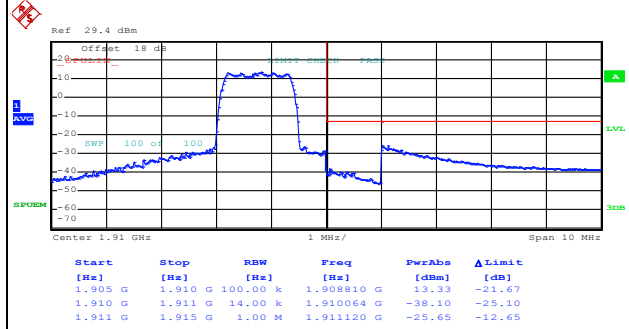
CDMA BC1 (1xRTT)

Lowest Band Edge



Date: 8.JAN.2020 15:53:19

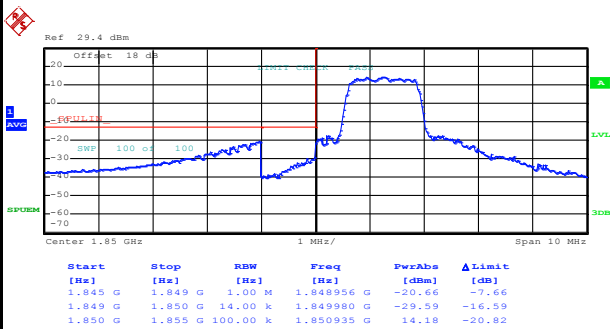
Highest Band Edge



Date: 8.JAN.2020 15:56:06

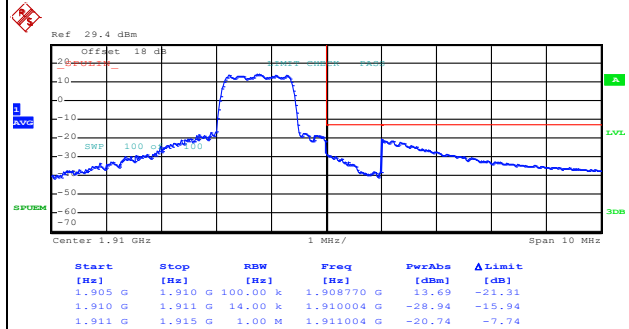
CDMA BC1 (1xEV-DO Rev. 0)

Lowest Band Edge



Date: 8.JAN.2020 14:34:21

Highest Band Edge



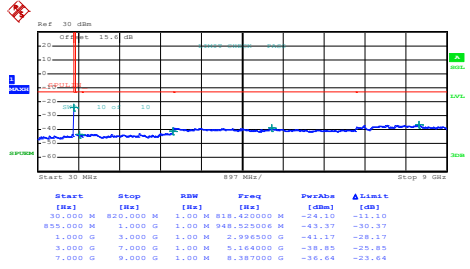
Date: 8.JAN.2020 14:37:11



Conducted Spurious Emission

CDMA BC0 (1xRTT)

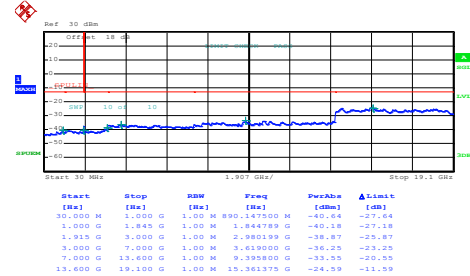
Lowest Channel



Date: 8.JAN.2020 15:15:38

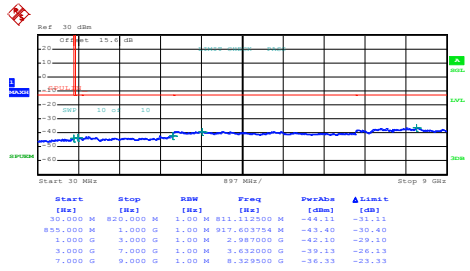
CDMA BC1 (1xRTT)

Lowest Channel



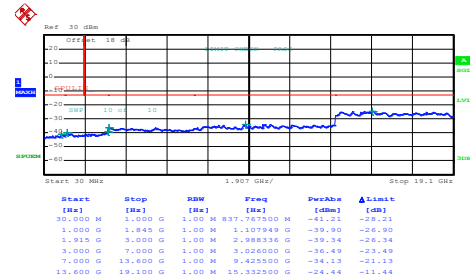
Date: 8.JAN.2020 15:56:59

Middle Channel



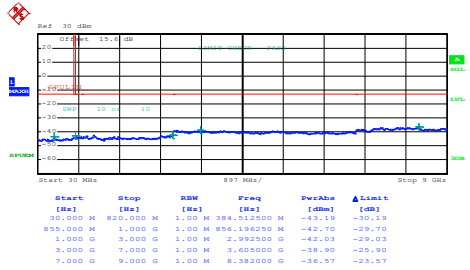
Date: 8.JAN.2020 15:16:29

Middle Channel



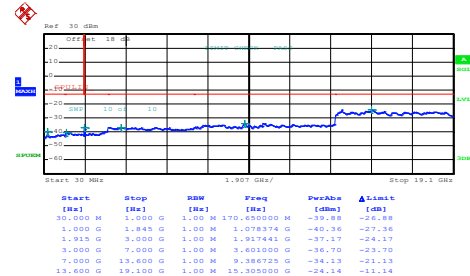
Date: 8.JAN.2020 15:57:49

Highest Channel



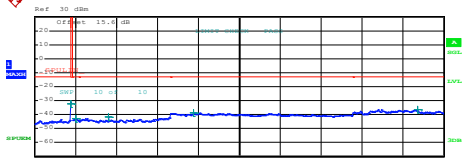
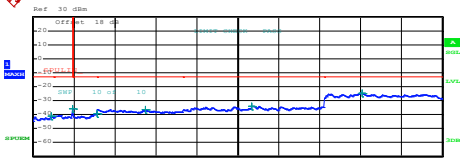
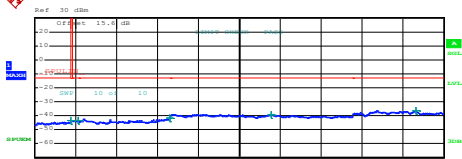
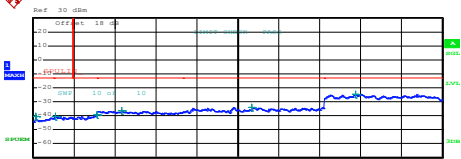
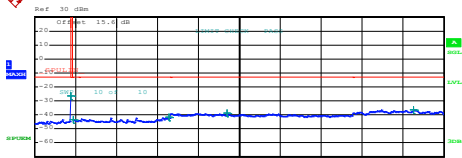
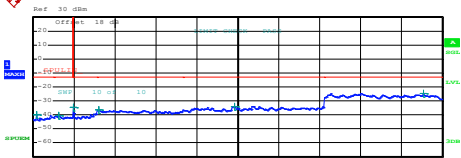
Date: 8.JAN.2020 15:17:19

Highest Channel



Date: 8.JAN.2020 15:58:39



| CDMA BC0 (1xEV-DO Rev. 0) | CDMA BC1 (1xEV-DO Rev. 0) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------------|------------|------------|--------------|--------------|-------------|--------|---------|-------|------------|--------|--------|---------|-------|-------|------------|--------|--------|-------|-------|-------|----------|--------|--------|-------|-------|-------|----------|--------|--------|-------|-------|-------|----------|--------|--------|---|-------------|------------|----------|------------|--------------|-------------|--------|-------|-------|------------|--------|--------|-------|-------|-------|----------|--------|--------|-------|-------|-------|----------|--------|--------|-------|-------|-------|----------|--------|--------|-------|--------|-------|-----------|--------|--------|--------|--------|-------|-----------|--------|--------|
| Lowest Channel | Lowest Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <p>Start 30 MHz Stop 9 GHz</p> <table border="1"> <thead> <tr> <th>Start [MHz]</th> <th>Stop [MHz]</th> <th>RBW [Hz]</th> <th>Freq [MHz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr><td>30,000</td><td>820,000</td><td>1,000</td><td>819,802500</td><td>-32.28</td><td>-33.28</td></tr> <tr><td>835,000</td><td>1,000</td><td>1,000</td><td>920,250000</td><td>-43.04</td><td>-30.04</td></tr> <tr><td>1,000</td><td>3,000</td><td>1,000</td><td>1,949500</td><td>-42.02</td><td>-28.02</td></tr> <tr><td>3,000</td><td>7,000</td><td>1,000</td><td>3,515000</td><td>-38.83</td><td>-25.83</td></tr> <tr><td>7,000</td><td>9,000</td><td>1,000</td><td>8,418500</td><td>-36.27</td><td>-23.27</td></tr> </tbody> </table> <p>Date: 8.JAN.2020 14:09:34</p> | Start [MHz] | Stop [MHz] | RBW [Hz] | Freq [MHz] | PwrAve [dBm] | ΔLimit [dB] | 30,000 | 820,000 | 1,000 | 819,802500 | -32.28 | -33.28 | 835,000 | 1,000 | 1,000 | 920,250000 | -43.04 | -30.04 | 1,000 | 3,000 | 1,000 | 1,949500 | -42.02 | -28.02 | 3,000 | 7,000 | 1,000 | 3,515000 | -38.83 | -25.83 | 7,000 | 9,000 | 1,000 | 8,418500 | -36.27 | -23.27 |  <p>Start 30 MHz Stop 19.1 GHz</p> <table border="1"> <thead> <tr> <th>Start [MHz]</th> <th>Stop [MHz]</th> <th>RBW [Hz]</th> <th>Freq [MHz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr><td>30,000</td><td>1,000</td><td>1,000</td><td>873,413500</td><td>-41.30</td><td>-28.30</td></tr> <tr><td>1,000</td><td>1,845</td><td>1,000</td><td>1,844789</td><td>-35.53</td><td>-22.53</td></tr> <tr><td>1,915</td><td>3,000</td><td>1,000</td><td>2,993600</td><td>-39.52</td><td>-26.52</td></tr> <tr><td>3,000</td><td>7,000</td><td>1,000</td><td>5,295000</td><td>-36.18</td><td>-23.18</td></tr> <tr><td>7,000</td><td>13,600</td><td>1,000</td><td>10,210900</td><td>-33.77</td><td>-20.77</td></tr> <tr><td>13,600</td><td>19,100</td><td>1,000</td><td>15,350375</td><td>-24.41</td><td>-11.41</td></tr> </tbody> </table> <p>Date: 8.JAN.2020 14:26:47</p> | Start [MHz] | Stop [MHz] | RBW [Hz] | Freq [MHz] | PwrAve [dBm] | ΔLimit [dB] | 30,000 | 1,000 | 1,000 | 873,413500 | -41.30 | -28.30 | 1,000 | 1,845 | 1,000 | 1,844789 | -35.53 | -22.53 | 1,915 | 3,000 | 1,000 | 2,993600 | -39.52 | -26.52 | 3,000 | 7,000 | 1,000 | 5,295000 | -36.18 | -23.18 | 7,000 | 13,600 | 1,000 | 10,210900 | -33.77 | -20.77 | 13,600 | 19,100 | 1,000 | 15,350375 | -24.41 | -11.41 |
| Start [MHz] | Stop [MHz] | RBW [Hz] | Freq [MHz] | PwrAve [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30,000 | 820,000 | 1,000 | 819,802500 | -32.28 | -33.28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 835,000 | 1,000 | 1,000 | 920,250000 | -43.04 | -30.04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,000 | 3,000 | 1,000 | 1,949500 | -42.02 | -28.02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,000 | 7,000 | 1,000 | 3,515000 | -38.83 | -25.83 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7,000 | 9,000 | 1,000 | 8,418500 | -36.27 | -23.27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Start [MHz] | Stop [MHz] | RBW [Hz] | Freq [MHz] | PwrAve [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30,000 | 1,000 | 1,000 | 873,413500 | -41.30 | -28.30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,000 | 1,845 | 1,000 | 1,844789 | -35.53 | -22.53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,915 | 3,000 | 1,000 | 2,993600 | -39.52 | -26.52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,000 | 7,000 | 1,000 | 5,295000 | -36.18 | -23.18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7,000 | 13,600 | 1,000 | 10,210900 | -33.77 | -20.77 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13,600 | 19,100 | 1,000 | 15,350375 | -24.41 | -11.41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Middle Channel | Middle Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Start [MHz] | Stop [MHz] | RBW [Hz] | Freq [MHz] | PwrAve [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30,000 | 820,000 | 1,000 | 819,802500 | -43.45 | -30.45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 835,000 | 1,000 | 1,000 | 914,137000 | -42.33 | -30.33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,000 | 3,000 | 1,000 | 2,994500 | -41.55 | -28.55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,000 | 7,000 | 1,000 | 5,223000 | -39.05 | -26.05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7,000 | 9,000 | 1,000 | 8,381500 | -36.11 | -23.11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Start [MHz] | Stop [MHz] | RBW [Hz] | Freq [MHz] | PwrAve [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30,000 | 1,000 | 1,000 | 142,277500 | -45.59 | -27.59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,000 | 3,845 | 1,000 | 1,023304 | -40.29 | -27.29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,915 | 3,000 | 1,000 | 2,993600 | -39.51 | -26.51 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,000 | 7,000 | 1,000 | 4,132000 | -36.64 | -23.64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7,000 | 13,600 | 1,000 | 10,231500 | -33.77 | -20.77 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13,600 | 19,100 | 1,000 | 15,064375 | -24.42 | -11.42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Highest Channel | Highest Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <p>Start 30 MHz Stop 9 GHz</p> <table border="1"> <thead> <tr> <th>Start [MHz]</th> <th>Stop [MHz]</th> <th>RBW [Hz]</th> <th>Freq [MHz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr><td>30,000</td><td>820,000</td><td>1,000</td><td>814,083500</td><td>-42.25</td><td>-31.25</td></tr> <tr><td>835,000</td><td>1,000</td><td>1,000</td><td>879,033750</td><td>-43.25</td><td>-30.25</td></tr> <tr><td>1,000</td><td>3,000</td><td>1,000</td><td>2,987000</td><td>-42.52</td><td>-28.52</td></tr> <tr><td>3,000</td><td>7,000</td><td>1,000</td><td>4,250000</td><td>-38.96</td><td>-25.96</td></tr> <tr><td>7,000</td><td>9,000</td><td>1,000</td><td>8,336000</td><td>-36.28</td><td>-23.28</td></tr> </tbody> </table> <p>Date: 8.JAN.2020 14:11:27</p> | Start [MHz] | Stop [MHz] | RBW [Hz] | Freq [MHz] | PwrAve [dBm] | ΔLimit [dB] | 30,000 | 820,000 | 1,000 | 814,083500 | -42.25 | -31.25 | 835,000 | 1,000 | 1,000 | 879,033750 | -43.25 | -30.25 | 1,000 | 3,000 | 1,000 | 2,987000 | -42.52 | -28.52 | 3,000 | 7,000 | 1,000 | 4,250000 | -38.96 | -25.96 | 7,000 | 9,000 | 1,000 | 8,336000 | -36.28 | -23.28 |  <p>Start 30 MHz Stop 19.1 GHz</p> <table border="1"> <thead> <tr> <th>Start [MHz]</th> <th>Stop [MHz]</th> <th>RBW [Hz]</th> <th>Freq [MHz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr><td>30,000</td><td>1,000</td><td>1,000</td><td>170,852500</td><td>-40.01</td><td>-27.01</td></tr> <tr><td>1,000</td><td>1,845</td><td>1,000</td><td>1,212306</td><td>-40.41</td><td>-27.41</td></tr> <tr><td>1,915</td><td>3,000</td><td>1,000</td><td>1,935042</td><td>-34.63</td><td>-21.63</td></tr> <tr><td>3,000</td><td>7,000</td><td>1,000</td><td>3,075000</td><td>-36.12</td><td>-23.12</td></tr> <tr><td>7,000</td><td>13,600</td><td>1,000</td><td>9,431275</td><td>-33.99</td><td>-20.99</td></tr> <tr><td>13,600</td><td>19,100</td><td>1,000</td><td>16,234437</td><td>-24.68</td><td>-11.68</td></tr> </tbody> </table> <p>Date: 8.JAN.2020 14:28:29</p> | Start [MHz] | Stop [MHz] | RBW [Hz] | Freq [MHz] | PwrAve [dBm] | ΔLimit [dB] | 30,000 | 1,000 | 1,000 | 170,852500 | -40.01 | -27.01 | 1,000 | 1,845 | 1,000 | 1,212306 | -40.41 | -27.41 | 1,915 | 3,000 | 1,000 | 1,935042 | -34.63 | -21.63 | 3,000 | 7,000 | 1,000 | 3,075000 | -36.12 | -23.12 | 7,000 | 13,600 | 1,000 | 9,431275 | -33.99 | -20.99 | 13,600 | 19,100 | 1,000 | 16,234437 | -24.68 | -11.68 |
| Start [MHz] | Stop [MHz] | RBW [Hz] | Freq [MHz] | PwrAve [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30,000 | 820,000 | 1,000 | 814,083500 | -42.25 | -31.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 835,000 | 1,000 | 1,000 | 879,033750 | -43.25 | -30.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,000 | 3,000 | 1,000 | 2,987000 | -42.52 | -28.52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,000 | 7,000 | 1,000 | 4,250000 | -38.96 | -25.96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7,000 | 9,000 | 1,000 | 8,336000 | -36.28 | -23.28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Start [MHz] | Stop [MHz] | RBW [Hz] | Freq [MHz] | PwrAve [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30,000 | 1,000 | 1,000 | 170,852500 | -40.01 | -27.01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,000 | 1,845 | 1,000 | 1,212306 | -40.41 | -27.41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,915 | 3,000 | 1,000 | 1,935042 | -34.63 | -21.63 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3,000 | 7,000 | 1,000 | 3,075000 | -36.12 | -23.12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7,000 | 13,600 | 1,000 | 9,431275 | -33.99 | -20.99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13,600 | 19,100 | 1,000 | 16,234437 | -24.68 | -11.68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Frequency Stability

| Test Conditions | Middle Channel | CDMA BC0 (1xRTT) | Limit 2.5ppm |
|------------------|-------------------|---------------------|-----------------|
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0574 | PASS |
| 40 | Normal Voltage | 0.0060 | |
| 30 | Normal Voltage | 0.0000 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0024 | |
| 0 | Normal Voltage | 0.0622 | |
| -10 | Normal Voltage | 0.0143 | |
| -20 | Normal Voltage | 0.0024 | |
| -30 | Normal Voltage | 0.0502 | |
| 20 | Maximum Voltage | 0.0000 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0084 | |

| Test Conditions | Middle Channel | CDMA BC1 (1xRTT) | Limit Note 2. |
|------------------|-------------------|---------------------|------------------|
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0085 | PASS |
| 40 | Normal Voltage | 0.0048 | |
| 30 | Normal Voltage | 0.0043 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0011 | |
| 0 | Normal Voltage | 0.0048 | |
| -10 | Normal Voltage | 0.0005 | |
| -20 | Normal Voltage | 0.0032 | |
| -30 | Normal Voltage | 0.0021 | |
| 20 | Maximum Voltage | 0.0005 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0005 | |



| Test Conditions | Middle Channel | CDMA BC0 (1xEV-DO Rev. 0) | Limit 2.5ppm |
|------------------|-------------------|------------------------------|-----------------|
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0383 | PASS |
| 40 | Normal Voltage | 0.0394 | |
| 30 | Normal Voltage | 0.0000 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0000 | |
| 0 | Normal Voltage | 0.0072 | |
| -10 | Normal Voltage | 0.0060 | |
| -20 | Normal Voltage | 0.0036 | |
| -30 | Normal Voltage | 0.0060 | |
| 20 | Maximum Voltage | 0.0036 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0060 | |

| Test Conditions | Middle Channel | CDMA BC1 (1xEV-DO Rev. 0) | Limit Note 2. |
|------------------|-------------------|------------------------------|------------------|
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0037 | PASS |
| 40 | Normal Voltage | 0.0027 | |
| 30 | Normal Voltage | 0.0016 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0000 | |
| 0 | Normal Voltage | 0.0005 | |
| -10 | Normal Voltage | 0.0027 | |
| -20 | Normal Voltage | 0.0005 | |
| -30 | Normal Voltage | 0.0000 | |
| 20 | Maximum Voltage | 0.0032 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0021 | |

Note:

1. Normal Voltage = 3.9V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.35 V
2. The frequency fundamental emissions stay within the authorized frequency block.



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

ERP/EIRP

| Channel | Mode | Conducted | | ERP | |
|---------|---------------------|-------------|---------------|----------|--------|
| | | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest | GSM850 | 32.66 | 1.8450 | 27.11 | 0.5140 |
| Middle | GPRS class 8 | 32.73 | 1.8750 | 27.18 | 0.5224 |
| Highest | (GT - LC = -3.4 dB) | 32.55 | 1.7989 | 27.00 | 0.5012 |
| Lowest | GSM850 | 27.17 | 0.5212 | 21.62 | 0.1452 |
| Middle | EDGE class 8 | 27.26 | 0.5321 | 21.71 | 0.1483 |
| Highest | (GT - LC = -3.4 dB) | 27.38 | 0.5470 | 21.83 | 0.1524 |
| Lowest | WCDMA Band V | 23.23 | 0.2104 | 17.68 | 0.0586 |
| Middle | RMC 12.2Kbps | 23.31 | 0.2143 | 17.76 | 0.0597 |
| Highest | (GT - LC = -3.4 dB) | 23.27 | 0.2123 | 17.72 | 0.0592 |
| Lowest | CDMA BC0 | 23.53 | 0.2254 | 17.98 | 0.0628 |
| Middle | 1xRTT | 23.59 | 0.2286 | 18.04 | 0.0637 |
| Highest | (GT - LC = -3.4 dB) | 23.58 | 0.2280 | 18.03 | 0.0635 |
| Lowest | CDMA BC0 | 23.52 | 0.2249 | 17.97 | 0.0627 |
| Middle | 1xEV-DO | 23.53 | 0.2254 | 17.98 | 0.0628 |
| Highest | (GT - LC = -3.4 dB) | 23.51 | 0.2244 | 17.96 | 0.0625 |
| Limit | ERP < 7W | Result | | PASS | |

| Channel | Mode | Conducted | | EIRP | |
|---------|---------------------|-------------|---------------|-----------|---------|
| | | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest | GSM1900 | 29.91 | 0.9795 | 29.01 | 0.7962 |
| Middle | GPRS class 8 | 29.86 | 0.9683 | 28.96 | 0.7870 |
| Highest | (GT - LC = -0.9 dB) | 29.63 | 0.9183 | 28.73 | 0.7464 |
| Lowest | GSM1900 | 25.65 | 0.3673 | 24.75 | 0.2985 |
| Middle | EDGE class 8 | 25.62 | 0.3648 | 24.72 | 0.2965 |
| Highest | (GT - LC = -0.9 dB) | 25.81 | 0.3811 | 24.91 | 0.3097 |
| Lowest | WCDMA Band II | 23.22 | 0.2099 | 22.32 | 0.1706 |
| Middle | RMC 12.2Kbps | 23.36 | 0.2168 | 22.46 | 0.1762 |
| Highest | (GT - LC = -0.9 dB) | 23.16 | 0.2070 | 22.26 | 0.1683 |
| Lowest | CDMA BC1 | 23.21 | 0.2094 | 22.31 | 0.1702 |
| Middle | 1xRTT | 23.22 | 0.2099 | 22.32 | 0.1706 |
| Highest | (GT - LC = -0.9 dB) | 23.02 | 0.2004 | 22.12 | 0.1629 |
| Lowest | CDMA BC1 | 23.20 | 0.2089 | 22.30 | 0.1698 |
| Middle | 1xEV-DO | 23.21 | 0.2094 | 22.31 | 0.1702 |
| Highest | (GT - LC = -0.9 dB) | 23.01 | 0.2000 | 22.11 | 0.1626 |
| Limit | EIRP < 2W | Result | | PASS | |



Radiated Spurious Emission

GPRS850

| 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 | -58.65 | -13 | -45.65 | -68.74 | -64.24 | 0.92 | 8.66 | H |
| | 2473 | -46.40 | -13 | -33.40 | -60.71 | -53.77 | 1.14 | 10.66 | H |
| | 3297 | -55.11 | -13 | -42.11 | -70.78 | -63.65 | 1.32 | 12.01 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1648 | -60.36 | -13 | -47.36 | -69.92 | -65.95 | 0.92 | 8.66 | V |
| | 2473 | -52.60 | -13 | -39.60 | -67.06 | -59.97 | 1.14 | 10.66 | V |
| | 3297 | -54.36 | -13 | -41.36 | -70.51 | -62.90 | 1.32 | 12.01 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| Middle | 1673 | -56.11 | -13 | -43.11 | -66.28 | -61.79 | 0.93 | 8.76 | H |
| | 2509 | -47.44 | -13 | -34.44 | -61.73 | -54.85 | 1.15 | 10.71 | H |
| | 3346 | -54.86 | -13 | -41.86 | -70.4 | -63.51 | 1.33 | 12.13 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1673 | -59.46 | -13 | -46.46 | -69 | -65.14 | 0.93 | 8.76 | V |
| | 2509 | -48.37 | -13 | -35.37 | -62.86 | -55.78 | 1.15 | 10.71 | V |
| | 3346 | -54.80 | -13 | -41.80 | -70.79 | -63.45 | 1.33 | 12.13 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |



| | | | | | | | | | |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 1698 | -57.14 | -13 | -44.14 | -67.38 | -62.91 | 0.94 | 8.85 | H |
| | 2546 | -55.37 | -13 | -42.37 | -69.64 | -62.81 | 1.16 | 10.76 | H |
| | 3395 | -55.07 | -13 | -42.07 | -70.52 | -63.83 | 1.34 | 12.25 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1698 | -59.66 | -13 | -46.66 | -69.18 | -65.43 | 0.94 | 8.85 | V |
| | 2546 | -56.88 | -13 | -43.88 | -71.25 | -64.32 | 1.16 | 10.76 | V |
| | 3395 | -54.84 | -13 | -41.84 | -70.7 | -63.60 | 1.34 | 12.25 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

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



EDGE 850

| EDGE 850 | | | | | | | | | |
|----------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 1648 | -59.96 | -13 | -46.96 | -70.05 | -65.55 | 0.92 | 8.66 | H |
| | 2473 | -55.81 | -13 | -42.81 | -70.12 | -63.18 | 1.14 | 10.66 | H |
| | 3297 | -55.23 | -13 | -42.23 | -70.9 | -63.77 | 1.32 | 12.01 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1648 | -60.64 | -13 | -47.64 | -70.2 | -66.23 | 0.92 | 8.66 | V |
| | 2473 | -55.93 | -13 | -42.93 | -70.39 | -63.30 | 1.14 | 10.66 | V |
| | 3297 | -54.62 | -13 | -41.62 | -70.77 | -63.16 | 1.32 | 12.01 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| Middle | 1673 | -60.01 | -13 | -47.01 | -70.17 | -65.69 | 0.93 | 8.76 | H |
| | 2509 | -55.98 | -13 | -42.98 | -70.27 | -63.39 | 1.15 | 10.71 | H |
| | 3346 | -55.16 | -13 | -42.16 | -70.7 | -63.81 | 1.33 | 12.13 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1673 | -60.99 | -13 | -47.99 | -70.53 | -66.67 | 0.93 | 8.76 | V |
| | 2509 | -56.01 | -13 | -43.01 | -70.5 | -63.42 | 1.15 | 10.71 | V |
| | 3346 | -54.59 | -13 | -41.59 | -70.58 | -63.24 | 1.33 | 12.13 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |



| | | | | | | | | | |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 1698 | -59.99 | -13 | -46.99 | -70.23 | -65.76 | 0.94 | 8.85 | H |
| | 2546 | -56.71 | -13 | -43.71 | -70.98 | -64.15 | 1.16 | 10.76 | H |
| | 3395 | -55.11 | -13 | -42.11 | -70.54 | -63.87 | 1.34 | 12.25 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1698 | -60.88 | -13 | -47.88 | -70.4 | -66.65 | 0.94 | 8.85 | V |
| | 2546 | -56.65 | -13 | -43.65 | -71.02 | -64.09 | 1.16 | 10.76 | V |
| | 3395 | -54.77 | -13 | -41.77 | -70.63 | -63.53 | 1.34 | 12.25 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

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



WCDMA 850

| WCDMA 850 | | | | | | | | | |
|-----------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 1653 | -60.19 | -13 | -47.19 | -70.3 | -65.80 | 0.92 | 8.68 | H |
| | 2479 | -56.33 | -13 | -43.33 | -70.65 | -63.71 | 1.15 | 10.67 | H |
| | 3306 | -55.15 | -13 | -42.15 | -70.8 | -63.71 | 1.33 | 12.03 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1653 | -60.67 | -13 | -47.67 | -70.23 | -66.28 | 0.92 | 8.68 | V |
| | 2479 | -56.17 | -13 | -43.17 | -70.66 | -63.55 | 1.15 | 10.67 | V |
| | 3306 | -54.47 | -13 | -41.47 | -70.58 | -63.03 | 1.33 | 12.03 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| Middle | 1673 | -60.28 | -13 | -47.28 | -70.45 | -65.96 | 0.93 | 8.76 | H |
| | 2509 | -56.51 | -13 | -43.51 | -70.8 | -63.92 | 1.15 | 10.71 | H |
| | 3346 | -55.14 | -13 | -42.14 | -70.68 | -63.79 | 1.33 | 12.13 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1673 | -60.83 | -13 | -47.83 | -70.37 | -66.51 | 0.93 | 8.76 | V |
| | 2509 | -55.99 | -13 | -42.99 | -70.48 | -63.40 | 1.15 | 10.71 | V |
| | 3346 | -54.30 | -13 | -41.30 | -70.29 | -62.95 | 1.33 | 12.13 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |



| | | | | | | | | | |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 1693 | -59.79 | -13 | -46.79 | -70.01 | -65.54 | 0.94 | 8.83 | H |
| | 2540 | -56.04 | -13 | -43.04 | -70.31 | -63.48 | 1.16 | 10.75 | H |
| | 3386 | -55.10 | -13 | -42.10 | -70.54 | -63.84 | 1.34 | 12.23 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1693 | -60.98 | -13 | -47.98 | -70.5 | -66.73 | 0.94 | 8.83 | V |
| | 2540 | -56.02 | -13 | -43.02 | -70.41 | -63.46 | 1.16 | 10.75 | V |
| | 3386 | -54.88 | -13 | -41.88 | -70.76 | -63.62 | 1.34 | 12.23 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

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



CDMA2000 (BC0 1xRTT)

| CDMA2000 BC0 | | | | | | | | | |
|--------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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 | 1649 | -60.17 | -13 | -47.17 | -70.26 | -65.77 | 0.92 | 8.67 | H |
| | 2474 | -56.05 | -13 | -43.05 | -70.36 | -63.42 | 1.14 | 10.66 | H |
| | 3299 | -55.61 | -13 | -42.61 | -71.28 | -64.15 | 1.32 | 12.02 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1649 | -61.12 | -13 | -48.12 | -70.68 | -66.72 | 0.92 | 8.67 | V |
| | 2474 | -56.58 | -13 | -43.58 | -71.04 | -63.95 | 1.14 | 10.66 | V |
| | 3299 | -54.55 | -13 | -41.55 | -70.69 | -63.09 | 1.32 | 12.02 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| Middle | 1673 | -60.09 | -13 | -47.09 | -70.26 | -65.77 | 0.93 | 8.76 | H |
| | 2510 | -56.17 | -13 | -43.17 | -70.46 | -63.58 | 1.15 | 10.71 | H |
| | 3346 | -55.24 | -13 | -42.24 | -70.78 | -63.89 | 1.33 | 12.13 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1673 | -60.77 | -13 | -47.77 | -70.31 | -66.45 | 0.93 | 8.76 | V |
| | 2510 | -56.42 | -13 | -43.42 | -70.91 | -63.83 | 1.15 | 10.71 | V |
| | 3346 | -55.00 | -13 | -42.00 | -70.99 | -63.65 | 1.33 | 12.13 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |



| | | | | | | | | | |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 1697 | -59.99 | -13 | -46.99 | -70.23 | -65.75 | 0.94 | 8.85 | H |
| | 2545 | -56.72 | -13 | -43.72 | -70.99 | -64.16 | 1.16 | 10.75 | H |
| | 3393 | -54.86 | -13 | -41.86 | -70.29 | -63.61 | 1.34 | 12.24 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1697 | -60.94 | -13 | -47.94 | -70.46 | -66.70 | 0.94 | 8.85 | V |
| | 2545 | -56.79 | -13 | -43.79 | -71.17 | -64.23 | 1.16 | 10.75 | V |
| | 3393 | -54.83 | -13 | -41.83 | -70.69 | -63.58 | 1.34 | 12.24 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

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



CDMA2000 (BC0 EVDO)

| CDMA2000 BC0 | | | | | | | | | |
|--------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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 | -59.77 | -13 | -46.77 | -69.86 | -65.36 | 0.92 | 8.66 | H |
| | 2472 | -56.44 | -13 | -43.44 | -70.75 | -63.81 | 1.14 | 10.66 | H |
| | 3296 | -55.31 | -13 | -42.31 | -70.99 | -63.85 | 1.32 | 12.01 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1648 | -60.26 | -13 | -47.26 | -69.82 | -65.85 | 0.92 | 8.66 | V |
| | 2472 | -55.81 | -13 | -42.81 | -70.27 | -63.18 | 1.14 | 10.66 | V |
| | 3296 | -54.82 | -13 | -41.82 | -70.97 | -63.36 | 1.32 | 12.01 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| Middle | 1672 | -59.86 | -13 | -46.86 | -70.02 | -65.54 | 0.93 | 8.75 | H |
| | 2512 | -56.30 | -13 | -43.30 | -70.59 | -63.71 | 1.15 | 10.71 | H |
| | 3344 | -54.80 | -13 | -41.80 | -70.35 | -63.44 | 1.33 | 12.13 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1672 | -60.25 | -13 | -47.25 | -69.78 | -65.93 | 0.93 | 8.75 | V |
| | 2512 | -56.01 | -13 | -43.01 | -70.49 | -63.42 | 1.15 | 10.71 | V |
| | 3344 | -54.26 | -13 | -41.26 | -70.26 | -62.90 | 1.33 | 12.13 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |



| | | | | | | | | | |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 1696 | -60.12 | -13 | -47.12 | -70.36 | -65.88 | 0.94 | 8.84 | H |
| | 2544 | -56.72 | -13 | -43.72 | -70.98 | -64.16 | 1.16 | 10.75 | H |
| | 3392 | -55.32 | -13 | -42.32 | -70.76 | -64.07 | 1.34 | 12.24 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1696 | -60.90 | -13 | -47.90 | -70.43 | -66.66 | 0.94 | 8.84 | V |
| | 2544 | -56.59 | -13 | -43.59 | -70.96 | -64.03 | 1.16 | 10.75 | V |
| | 3392 | -54.54 | -13 | -41.54 | -70.41 | -63.29 | 1.34 | 12.24 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

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



GPRS 1900

| GPRS 1900 | | | | | | | | | |
|-----------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 3700 | -51.46 | -13 | -38.46 | -69.67 | -62.67 | 1.41 | 12.62 | H |
| | 5548 | -39.47 | -13 | -26.47 | -62.54 | -51.03 | 1.74 | 13.30 | H |
| | 7403 | -42.83 | -13 | -29.83 | -69.9 | -52.15 | 1.94 | 11.26 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3700 | -51.01 | -13 | -38.01 | -69.36 | -62.22 | 1.41 | 12.62 | V |
| | 5548 | -47.11 | -13 | -34.11 | -69.69 | -58.67 | 1.74 | 13.30 | V |
| | 7403 | -42.67 | -13 | -29.67 | -69.58 | -51.99 | 1.94 | 11.26 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| Middle | 3763 | -51.13 | -13 | -38.13 | -69.56 | -62.36 | 1.43 | 12.66 | H |
| | 5639 | -41.23 | -13 | -28.23 | -64.32 | -52.80 | 1.73 | 13.30 | H |
| | 7522 | -44.06 | -13 | -31.06 | -70.56 | -53.17 | 1.99 | 11.10 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3763 | -50.73 | -13 | -37.73 | -69.38 | -61.96 | 1.43 | 12.66 | V |
| | 5639 | -42.21 | -13 | -29.21 | -64.9 | -53.78 | 1.73 | 13.30 | V |
| | 7522 | -43.87 | -13 | -30.87 | -70.33 | -52.98 | 1.99 | 11.10 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |



| | | | | | | | | | |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3819 | -49.77 | -13 | -36.77 | -68.37 | -61.02 | 1.44 | 12.69 | H |
| | 5730 | -37.91 | -13 | -24.91 | -61.44 | -49.48 | 1.73 | 13.30 | H |
| | 7641 | -44.21 | -13 | -31.21 | -70.26 | -53.33 | 2.01 | 11.13 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3819 | -50.47 | -13 | -37.47 | -69.31 | -61.72 | 1.44 | 12.69 | V |
| | 5730 | -43.69 | -13 | -30.69 | -66.58 | -55.26 | 1.73 | 13.30 | V |
| | 7641 | -44.00 | -13 | -31.00 | -69.95 | -53.12 | 2.01 | 11.13 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

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



EDGE1900

| EDGE 1900 | | | | | | | | | |
|-----------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 3700 | -51.56 | -13 | -38.56 | -69.77 | -62.77 | 1.41 | 12.62 | H |
| | 5550 | -42.46 | -13 | -29.46 | -65.52 | -54.02 | 1.74 | 13.30 | H |
| | 7403 | -42.58 | -13 | -29.58 | -69.65 | -51.90 | 1.94 | 11.26 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3700 | -51.34 | -13 | -38.34 | -69.7 | -62.55 | 1.41 | 12.62 | V |
| | 5550 | -43.59 | -13 | -30.59 | -66.17 | -55.15 | 1.74 | 13.30 | V |
| | 7403 | -42.84 | -13 | -29.84 | -69.75 | -52.16 | 1.94 | 11.26 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| Middle | 3763 | -51.02 | -13 | -38.02 | -69.45 | -62.25 | 1.43 | 12.66 | H |
| | 5639 | -42.09 | -13 | -29.09 | -65.18 | -53.66 | 1.73 | 13.30 | H |
| | 7522 | -44.16 | -13 | -31.16 | -70.66 | -53.27 | 1.99 | 11.10 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3763 | -51.11 | -13 | -38.11 | -69.76 | -62.34 | 1.43 | 12.66 | V |
| | 5639 | -46.39 | -13 | -33.39 | -69.08 | -57.96 | 1.73 | 13.30 | V |
| | 7522 | -44.12 | -13 | -31.12 | -70.58 | -53.23 | 1.99 | 11.10 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |



| | | | | | | | | | |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3819 | -51.09 | -13 | -38.09 | -69.69 | -62.34 | 1.44 | 12.69 | H |
| | 5730 | -43.70 | -13 | -30.70 | -67.23 | -55.27 | 1.73 | 13.30 | H |
| | 7641 | -44.21 | -13 | -31.21 | -70.26 | -53.33 | 2.01 | 11.13 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3819 | -50.79 | -13 | -37.79 | -69.63 | -62.04 | 1.44 | 12.69 | V |
| | 5730 | -46.46 | -13 | -33.46 | -69.35 | -58.03 | 1.73 | 13.30 | V |
| | 7641 | -44.16 | -13 | -31.16 | -70.11 | -53.28 | 2.01 | 11.13 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

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



WCDMA 1900

| WCDMA 1900 | | | | | | | | | |
|------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 3707 | -51.23 | -13 | -38.23 | -69.46 | -62.44 | 1.41 | 12.62 | H |
| | 5555 | -46.55 | -13 | -33.55 | -69.6 | -58.11 | 1.74 | 13.30 | H |
| | 7410 | -42.58 | -13 | -29.58 | -69.62 | -51.88 | 1.94 | 11.24 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3707 | -51.20 | -13 | -38.20 | -69.58 | -62.41 | 1.41 | 12.62 | V |
| | 5555 | -46.71 | -13 | -33.71 | -69.29 | -58.27 | 1.74 | 13.30 | V |
| | 7410 | -42.85 | -13 | -29.85 | -69.74 | -52.15 | 1.94 | 11.24 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| Middle | 3763 | -51.16 | -13 | -38.16 | -69.59 | -62.39 | 1.43 | 12.66 | H |
| | 5639 | -46.43 | -13 | -33.43 | -69.52 | -58.00 | 1.73 | 13.30 | H |
| | 7522 | -43.90 | -13 | -30.90 | -70.4 | -53.01 | 1.99 | 11.10 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3763 | -50.78 | -13 | -37.78 | -69.43 | -62.01 | 1.43 | 12.66 | V |
| | 5639 | -46.82 | -13 | -33.82 | -69.51 | -58.39 | 1.73 | 13.30 | V |
| | 7522 | -44.21 | -13 | -31.21 | -70.67 | -53.32 | 1.99 | 11.10 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |



| | | | | | | | | | |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3815 | -51.13 | -13 | -38.13 | -69.72 | -62.38 | 1.44 | 12.69 | H |
| | 5722 | -45.87 | -13 | -32.87 | -69.36 | -57.44 | 1.73 | 13.30 | H |
| | 7630 | -43.93 | -13 | -30.93 | -69.98 | -53.05 | 2.01 | 11.13 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3815 | -50.93 | -13 | -37.93 | -69.76 | -62.18 | 1.44 | 12.69 | V |
| | 5722 | -46.37 | -13 | -33.37 | -69.24 | -57.94 | 1.73 | 13.30 | V |
| | 7630 | -44.32 | -13 | -31.32 | -70.29 | -53.44 | 2.01 | 11.13 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

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



CDMA2000 (BC1 1xRTT)

| CDMA2000 BC1 | | | | | | | | | |
|--------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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 | 3700 | -51.42 | -13 | -38.42 | -69.63 | -62.63 | 1.41 | 12.62 | H |
| | 5555 | -46.33 | -13 | -33.33 | -69.38 | -57.89 | 1.74 | 13.30 | H |
| | 7403 | -42.32 | -13 | -29.32 | -69.39 | -51.64 | 1.94 | 11.26 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3700 | -51.27 | -13 | -38.27 | -69.62 | -62.48 | 1.41 | 12.62 | V |
| | 5555 | -46.89 | -13 | -33.89 | -69.47 | -58.45 | 1.74 | 13.30 | V |
| | 7403 | -42.49 | -13 | -29.49 | -69.4 | -51.81 | 1.94 | 11.26 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| Middle | 3763 | -50.70 | -13 | -37.70 | -69.13 | -61.93 | 1.43 | 12.66 | H |
| | 5639 | -46.22 | -13 | -33.22 | -69.31 | -57.79 | 1.73 | 13.30 | H |
| | 7522 | -44.26 | -13 | -31.26 | -70.76 | -53.37 | 1.99 | 11.10 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3763 | -50.79 | -13 | -37.79 | -69.44 | -62.02 | 1.43 | 12.66 | V |
| | 5639 | -46.75 | -13 | -33.75 | -69.44 | -58.32 | 1.73 | 13.30 | V |
| | 7522 | -43.90 | -13 | -30.90 | -70.36 | -53.01 | 1.99 | 11.10 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |



| | | | | | | | | | |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3819 | -51.27 | -13 | -38.27 | -69.87 | -62.52 | 1.44 | 12.69 | H |
| | 5723 | -45.74 | -13 | -32.74 | -69.24 | -57.31 | 1.73 | 13.30 | H |
| | 7634 | -44.14 | -13 | -31.14 | -70.19 | -53.26 | 2.01 | 11.13 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3819 | -50.84 | -13 | -37.84 | -69.68 | -62.09 | 1.44 | 12.69 | V |
| | 5723 | -46.10 | -13 | -33.10 | -68.97 | -57.67 | 1.73 | 13.30 | V |
| | 7634 | -44.33 | -13 | -31.33 | -70.29 | -53.45 | 2.01 | 11.13 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

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



CDMA 2000 (BC1 EVDO)

| CDMA2000 BC10 | | | | | | | | | |
|---------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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 | 3700 | -51.28 | -13 | -38.28 | -69.49 | -62.49 | 1.41 | 12.62 | H |
| | 5555 | -46.42 | -13 | -33.42 | -69.47 | -57.98 | 1.74 | 13.30 | H |
| | 7403 | -42.49 | -13 | -29.49 | -69.56 | -51.81 | 1.94 | 11.26 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3700 | -51.05 | -13 | -38.05 | -69.4 | -62.26 | 1.41 | 12.62 | V |
| | 5555 | -47.06 | -13 | -34.06 | -69.64 | -58.62 | 1.74 | 13.30 | V |
| | 7403 | -42.54 | -13 | -29.54 | -69.45 | -51.86 | 1.94 | 11.26 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| Middle | 3763 | -50.77 | -13 | -37.77 | -69.2 | -62.00 | 1.43 | 12.66 | H |
| | 5639 | -46.46 | -13 | -33.46 | -69.55 | -58.03 | 1.73 | 13.30 | H |
| | 7522 | -44.24 | -13 | -31.24 | -70.74 | -53.35 | 1.99 | 11.10 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3763 | -50.95 | -13 | -37.95 | -69.6 | -62.18 | 1.43 | 12.66 | V |
| | 5639 | -46.86 | -13 | -33.86 | -69.55 | -58.43 | 1.73 | 13.30 | V |
| | 7522 | -44.18 | -13 | -31.18 | -70.64 | -53.29 | 1.99 | 11.10 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |



| | | | | | | | | | |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3819 | -51.34 | -13 | -38.34 | -69.94 | -62.59 | 1.44 | 12.69 | H |
| | 5723 | -45.64 | -13 | -32.64 | -69.14 | -57.21 | 1.73 | 13.30 | H |
| | 7635 | -44.27 | -13 | -31.27 | -70.32 | -53.39 | 2.01 | 11.13 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3819 | -50.54 | -13 | -37.54 | -69.38 | -61.79 | 1.44 | 12.69 | V |
| | 5723 | -45.67 | -13 | -32.67 | -68.54 | -57.24 | 1.73 | 13.30 | V |
| | 7635 | -44.34 | -13 | -31.34 | -70.3 | -53.46 | 2.01 | 11.13 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

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



<WPC Mode>

GPRS 1900

| GPRS 1900 | | | | | | | | | |
|-----------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 3820 | -51.47 | -13 | -38.47 | -70.08 | -62.72 | 1.44 | 12.69 | H |
| | 5730 | -35.91 | -13 | -22.91 | -59.44 | -47.48 | 1.73 | 13.30 | H |
| | 7640 | -44.20 | -13 | -31.20 | -70.25 | -53.32 | 2.01 | 11.13 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3820 | -50.98 | -13 | -37.98 | -69.82 | -62.23 | 1.44 | 12.69 | V |
| | 5730 | -37.24 | -13 | -24.24 | -60.13 | -48.81 | 1.73 | 13.30 | V |
| | 7640 | -44.51 | -13 | -31.51 | -70.46 | -53.63 | 2.01 | 11.13 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

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

—————THE END—————