



# FCC RADIO TEST REPORT

**FCC ID** : IHDT56ZB2  
**Equipment** : Mobile Cellular Phone  
**Brand Name** : Motorola  
**Model Name** : XT2071-4  
**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** : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

The product was received on May 12, 2020 and testing was started from May 29, 2020 and completed on Jun. 23, 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 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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### 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)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (WCDMA Band IV)		
3.3	§24.232 (d)	Peak-to-Average Ratio	Pass	
3.4	§2.1049	Occupied Bandwidth (GSM850) (WCDMA Band V) (CDMA BC0) (GSM1900) (WCDMA Band II) (WCDMA Band IV)	Pass	-
	§22.917 (b)			
	§24.238 (b)			
	§27.53 (g)			
3.5	§2.1051	Band Edge Measurement (GSM850) (WCDMA Band V) (CDMA BC0) (GSM1900) (WCDMA Band II) (WCDMA Band IV)	Pass	-
	§22.917 (a)			
	§24.238 (a)			
	§27.53 (g)			
3.6	§2.1051	Conducted Emission (GSM850) (WCDMA Band V) (CDMA BC0) (GSM1900) (WCDMA Band II) (WCDMA Band IV)	Pass	-
	§22.917 (a)			
	§24.238 (a)			
	§27.53 (g)			
3.7	§2.1055	Frequency Stability Temperature & Voltage	Pass	-
	§22.355			
	§24.235			
	§27.54			
4.4	§2.1053	Field Strength of Spurious Radiation (GSM850) (WCDMA Band V) (CDMA BC0) (GSM1900) (WCDMA Band II) (WCDMA Band IV)	Pass	Under limit 27.12 dB at 2472.000 MHz
	§22.917 (a)			
	§24.238 (a)			
	§27.53 (h)			

**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: **Vivian Hsu**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2071-4
FCC ID	IHDT56ZB2
IMEI Code	<b>Conducted :</b> IMEI 1: 351648110010411 IMEI 2: 351648110010429 <b>Radiation :</b> IMEI 1: 351648110008993 IMEI 2: 351648110009009
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/5G NR/ GNSS/NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
HW Version	DVT2
EUT Stage	Identical Prototype

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



<b>Accessory List</b>	
<b>AC Adapter 1 (US)</b>	Brand Name : Motorola
	Model Name : SC-51
	Manufacturer : Chenyang
<b>AC Adapter 1 (EU)</b>	Brand Name : Motorola
	Model Name : SC-52
	Manufacturer : Chenyang
<b>AC Adapter 1 (UK)</b>	Brand Name : Motorola
	Model Name : SC-53UK
	Manufacturer : Chenyang
<b>AC Adapter 1 (AR)</b>	Brand Name : Motorola
	Model Name : SC-56
	Manufacturer : Chenyang
<b>AC Adapter 1 (AU)</b>	Brand Name : Motorola
	Model Name : SC-55AU
	Manufacturer : Chenyang
<b>AC Adapter 2 (US)</b>	Brand Name : Motorola
	Model Name : SC-51
	Manufacturer : Acbel
<b>AC Adapter 2 (EU)</b>	Brand Name : Motorola
	Model Name : SC-52
	Manufacturer : Acbel
<b>AC Adapter 2 (AR)</b>	Brand Name : Motorola
	Model Name : SC-56
	Manufacturer : Acbel
<b>AC Adapter 3 (IN)</b>	Brand Name : Motorola
	Model Name : SC-54
	Manufacturer : Salom
<b>Battery 1</b>	Brand Name : Motorola
	Model Name : LS30
	Manufacturer : ATL
<b>Battery 2</b>	Brand Name : Motorola
	Model Name : LS40
	Manufacturer : ATL
<b>Standard 3.5mm Headset 1</b>	Brand Name : Motorola
	Model Name : SH38C37773
	Manufacturer : Lianyun
<b>Standard 3.5mm Headset 2</b>	Brand Name : Motorola
	Model Name : SH38C44959
	Manufacturer : Lianyun
<b>USB-C to 3.5mm headset adaptor 1</b>	Brand Name : Motorola
	Model Name : SC18C27844
<b>USB-C to 3.5mm headset adaptor 2</b>	Brand Name : Motorola
	Model Name : SC18C27845
<b>USB Cable 1</b>	Brand Name : Motorola
	Model Name : SC18C24367
	Manufacturer : Saibao
<b>USB Cable 2</b>	Brand Name : Motorola
	Model Name : SC18C24368
	Manufacturer : Luxshare



## 1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
<b>Tx Frequency</b>	<b>GSM:</b> GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz <b>WCDMA:</b> Band V: 826.4 MHz ~ 846.6 MHz Band II: 1852.4 MHz ~ 1907.6 MHz Band IV: 1712.4 MHz ~ 1752.6 MHz <b>CDMA:</b> BC0: 824.70 MHz ~ 848.31 MHz
<b>Rx Frequency</b>	<b>GSM:</b> GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz <b>WCDMA:</b> Band V: 871.4 MHz ~ 891.6 MHz Band II: 1932.4 MHz ~ 1987.6 MHz Band IV: 2112.4 MHz ~ 2152.6 MHz <b>CDMA:</b> BC0: 869.70 MHz ~ 893.31 MHz
<b>Maximum Output Power to Antenna</b>	<b>GSM:</b> GSM850: 32.47 dBm GSM1900: 29.70 dBm <b>WCDMA:</b> Band V: 23.06 dBm Band II: 23.23 dBm Band IV: 23.12 dBm <b>CDMA:</b> BC0: 24.00 dBm
<b>Antenna Type</b>	Fixed Internal Antenna
<b>Antenna Gain</b>	Cellular Band: -4.7 dBi PCS Band: -2 dBi AWS Band: -1.9 dBi
<b>Type of Modulation</b>	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 Testing Location

<b>Test Site</b>	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
<b>Test Site Location</b>	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
<b>Test Site No.</b>	<b>Sporton Site No.</b> TH03-HY
<b>Test Engineer</b>	Louis Chung
<b>Temperature</b>	23.7~25.7°C
<b>Relative Humidity</b>	44.4~61.5%

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

<b>Test Site</b>	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
<b>Test Site Location</b>	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
<b>Test Site No.</b>	<b>Sporton Site No.</b> 03CH11-HY
<b>Test Engineer</b>	Cookie Ku, Fu Chen and Troye Hsieh
<b>Temperature</b>	19.1~26.4°C
<b>Relative Humidity</b>	50~68.9%

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

FCC Designation No.: TW1190 and TW0007



## **1.5 Applicable Standards**

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

**Remark:**

1. All 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.
3. The TAF code is not including all the FCC KDB listed without accreditation.



## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

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

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z and Accessory (Earphone or Adapter). The worst cases (Close Mode with PT Antenna: 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 18000 MHz for WCDMA Band IV
3. 30 MHz to 19100 MHz for GSM1900 and WCDMA Band II

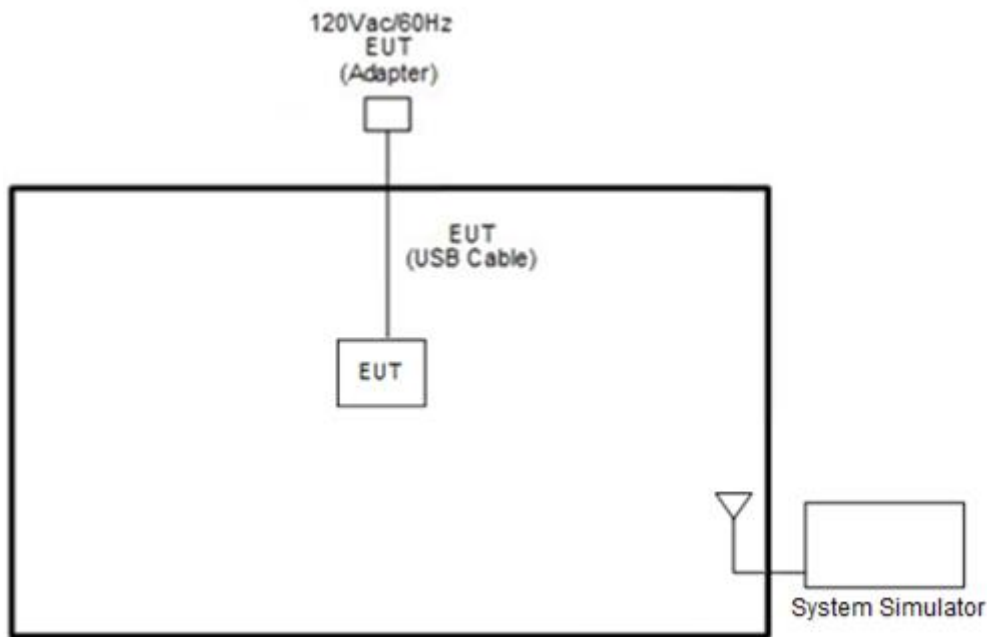
All modes and data rates and positions were investigated.

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

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

**Remark:** All the radiated test cases were performed with AC Adapter 1 (US), USB Cable 1, and SIM 1.

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

## 2.4 Measurement Results Explanation Example

### For all conducted test items:

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

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

*Offset = RF cable loss + attenuator factor.*

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

Example:

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



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

Frequency List				
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest
GSM850	Channel	128	189	251
	Frequency	824.2	836.4	848.8
WCDMA Band V	Channel	4132	4182	4233
	Frequency	826.4	836.4	846.6
GSM1900	Channel	512	661	810
	Frequency	1850.2	1880.0	1909.8
WCDMA Band II	Channel	9262	9400	9538
	Frequency	1852.4	1880.0	1907.6
WCDMA Band IV	Channel	1312	1413	1513
	Frequency	1712.4	1732.6	1752.6
CDMA2000 BC0	Channel	1013	384	777
	Frequency	824.7	836.52	848.31

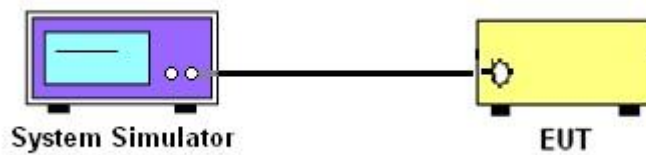
### 3 Conducted Test Result

#### 3.1 Measuring Instruments

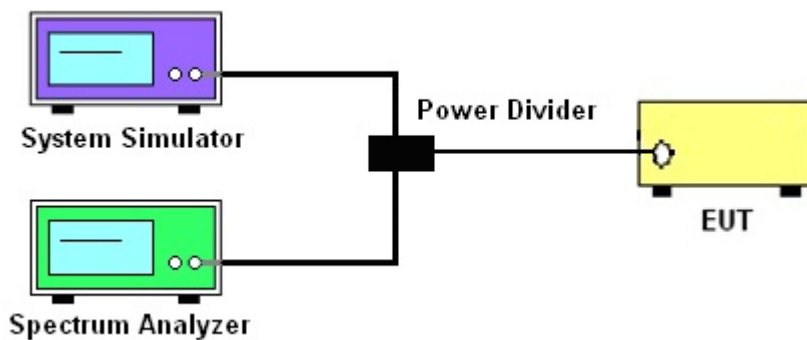
See list of measuring instruments of this test report.

##### 3.1.1 Test Setup

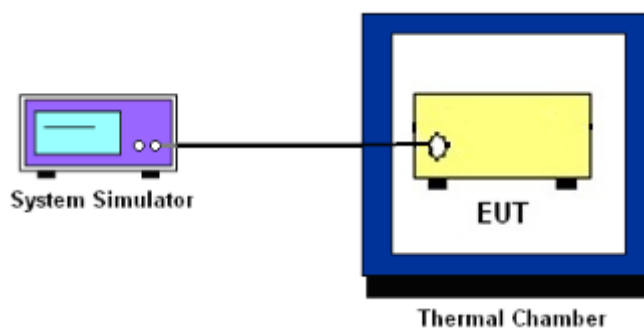
##### 3.1.2 Conducted Output Power



##### 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

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

According to KDB 412172 D01 Power Approach,

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

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

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

### 3.2.2 Test Procedures

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



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

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

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

#### **3.3.2 Test Procedures**

The testing follows 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 10<sup>th</sup> 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 & 27.54

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

#### 3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

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

#### 3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

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

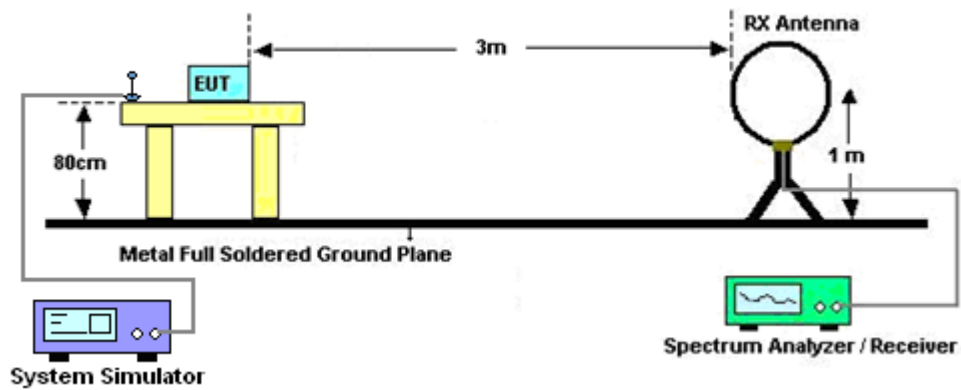
## 4 Radiated Test Items

### 4.1 Measuring Instruments

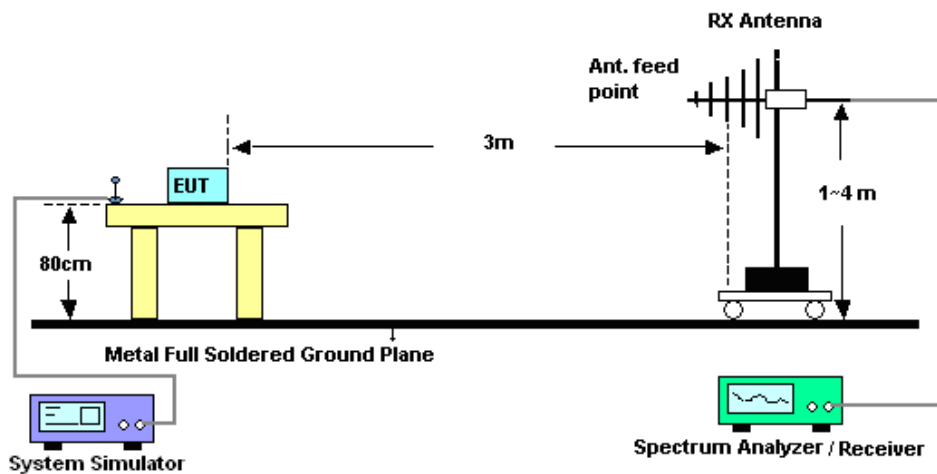
See list of measuring instruments of this test report.

### 4.2 Test Setup

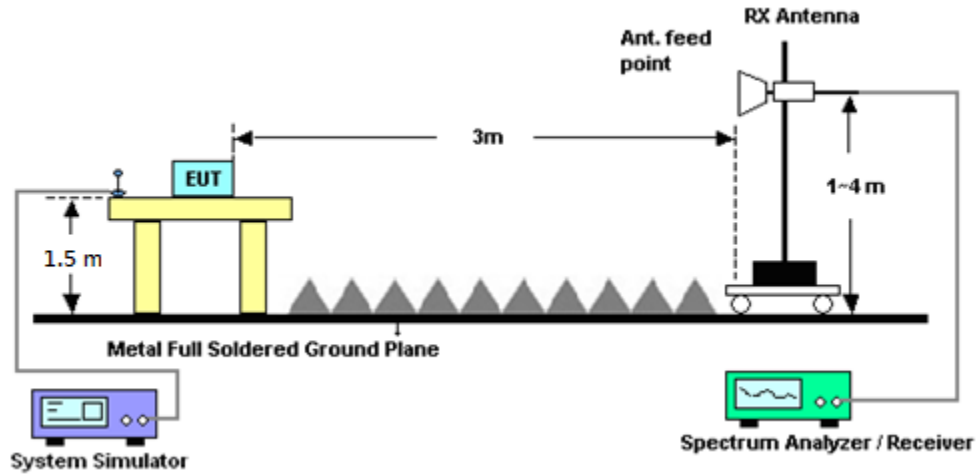
For radiated emissions below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



### 4.3 Test Result of Radiated Test

Please refer to Appendix B.

**Note:**

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

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



## 4.4 Field Strength of Spurious Radiation Measurement

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

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

### 4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / 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. 26, 2020	May 29, 2020~ Jun. 11, 2020	Mar. 25, 2021	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Sep. 04, 2019	May 29, 2020~ Jun. 11, 2020	Sep. 03, 2020	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SU-641	92013721	-30°C ~70°C	Nov. 26, 2019	May 29, 2020~ Jun. 11, 2020	Nov. 25, 2020	Conducted (TH03-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890001	1V~20V 0.5A~4A	Oct. 09, 2019	May 29, 2020~ Jun. 11, 2020	Oct. 08, 2020	Conducted (TH03-HY)
Base Station (Measure)	Rohde & Schwarz	CMU200	117995	GSM / GPRS / WCDMA / CDMA	Aug. 23, 2019	May 29, 2020~ Jun. 11, 2020	Aug. 22, 2020	Conducted (TH03-HY)
Power Divider	Warison	WCOU-0.4-26.5S-20	#A	N/A	Nov. 06, 2019	May 29, 2020~ Jun. 11, 2020	Nov. 05, 2020	Conducted (TH03-HY)
Preamplifier	EMCE	EMC184045B	980192	18GHz ~ 40GHz	Aug. 01, 2019	May 30, 2020~ Jun. 23, 2020	Jul. 31, 2020	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 03, 2019	May 30, 2020~ Jun. 23, 2020	Dec. 02, 2020	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 12, 2019	May 30, 2020~ Jun. 23, 2020	Oct. 11, 2020	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Nov. 04, 2019	May 30, 2020~ Jun. 23, 2020	Nov. 03, 2020	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 09, 2020	May 30, 2020~ Jun. 23, 2020	Jan. 08, 2021	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 13, 2019	May 30, 2020~ Jun. 23, 2020	Nov. 12, 2020	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Oct. 28, 2019	May 30, 2020~ Jun. 23, 2020	Oct. 27, 2020	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1.53G Low Pass	Sep. 15, 2019	May 30, 2020~ Jun. 23, 2020	Sep. 14, 2020	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60SS	SN3	3GHz High Pass	Sep. 15, 2019	May 30, 2020~ Jun. 23, 2020	Sep. 14, 2020	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	May 30, 2020~ Jun. 23, 2020	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	May 30, 2020~ Jun. 23, 2020	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	May 30, 2020~ Jun. 23, 2020	N/A	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY53290045	20MHz~8.4GHz	Jan. 19, 2019	May 30, 2020~ Jun. 23, 2020	Jan. 18, 2020	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	May 30, 2020~ Jun. 23, 2020	N/A	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTN-303B	TP161237	N/A	Oct. 25, 2019	May 30, 2020~ Jun. 23, 2020	Oct. 24, 2020	Radiation (03CH11-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 12, 2020	May 30, 2020~ Jun. 23, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 12, 2020	May 30, 2020~ Jun. 23, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30M-18G	Mar. 12, 2020	May 30, 2020~ Jun. 23, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 12, 2020	May 30, 2020~ Jun. 23, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTN-303B	TP140325	N/A	Nov. 07, 2019	May 30, 2020~ Jun. 23, 2020	Nov. 06, 2020	Radiation (03CH11-HY)
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	Nov. 12, 2018	May 30, 2020~ Jun. 23, 2020	Nov. 11, 2020	Radiation (03CH11-HY)



## 6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.09
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.44
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### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.95
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## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power)

<PT Antenna>

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	32.32	32.42	32.45	29.69	29.62	29.40
GPRS class 8	32.33	32.43	<b>32.47</b>	<b>29.70</b>	29.63	29.41
GPRS class 10	29.40	28.98	28.51	26.29	26.21	25.95
GPRS class 11	27.48	26.92	26.39	24.64	24.10	23.37
GPRS class 12	25.97	25.48	25.06	23.29	22.75	22.07
EGPRS class 8	25.60	<b>25.73</b>	25.69	24.67	24.68	<b>24.75</b>
EGPRS class 10	24.52	24.64	24.61	23.47	23.51	23.62
EGPRS class 11	22.96	23.06	23.02	21.81	21.83	21.92
EGPRS class 12	21.35	21.50	21.44	20.16	20.21	20.31

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	22.95	<b>23.06</b>	22.96	<b>23.23</b>	22.95	23.03
HSDPA Subtest-1	21.97	22.07	21.99	22.26	22.00	22.05
HSDPA Subtest-2	21.99	21.76	21.96	22.30	22.00	22.04
HSDPA Subtest-3	21.50	21.57	21.15	21.78	21.50	21.52
HSDPA Subtest-4	21.50	21.23	21.48	21.78	21.50	21.35
HSUPA Subtest-1	21.93	22.08	21.97	22.27	22.02	22.04
HSUPA Subtest-2	19.93	19.91	19.92	20.27	19.99	20.06
HSUPA Subtest-3	20.88	20.94	20.88	21.27	21.00	21.06
HSUPA Subtest-4	19.97	19.94	19.86	20.28	20.04	19.98
HSUPA Subtest-5	22.00	21.90	21.90	22.30	22.00	22.10



Conducted Power (*Unit: dBm)			
Band	WCDMA Band IV		
Channel	1312	1413	1513
Frequency	1712.4	1732.6	1752.6
RMC 12.2K	23.10	<b>23.12</b>	23.06
HSDPA Subtest-1	22.11	22.13	22.08
HSDPA Subtest-2	22.10	22.16	22.09
HSDPA Subtest-3	21.63	21.63	21.60
HSDPA Subtest-4	21.58	21.62	21.60
HSUPA Subtest-1	22.11	22.08	22.04
HSUPA Subtest-2	20.11	20.11	20.07
HSUPA Subtest-3	21.10	21.06	21.02
HSUPA Subtest-4	20.16	20.17	20.10
HSUPA Subtest-5	22.10	22.10	22.60

Conducted Power (*Unit: dBm)						
Band	CDMA 2000 BC0			CDMA 2000 BC1		
	1013	384	777	25	600	1175
Channel	824.7	836.52	848.31	1851.25	1880	1908.75
Frequency	824.7	836.52	848.31	1851.25	1880	1908.75
1xRTT RC1 SO55	23.75	23.92	23.93	-	-	-
1xRTT RC3 SO55	23.73	<b>24.00</b>	23.90	-	-	-
1xRTT RC3 SO32 (+ F-SCH)	23.72	23.94	23.92	-	-	-
1xRTT RC3 SO32 (+SCH)	23.71	23.95	23.92	-	-	-
1xEVDO RTAP 153.6Kbps	23.77	<b>24.00</b>	23.94	-	-	-
1xEVDO RETAP 4096Bits	23.74	23.94	23.91	-	-	-

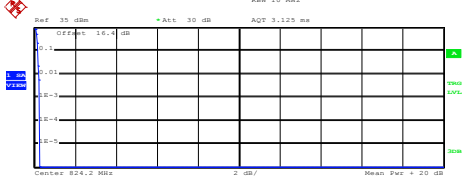
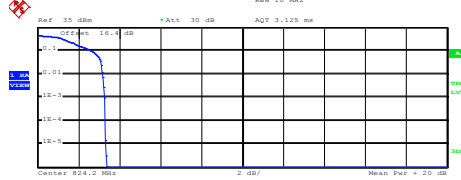
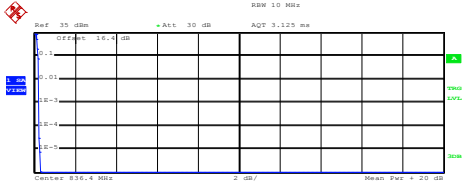
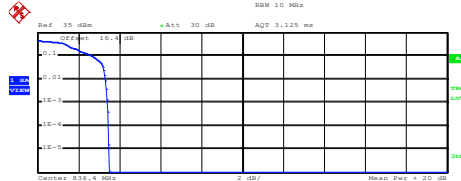
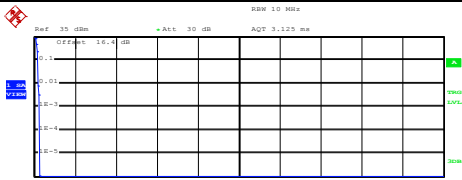
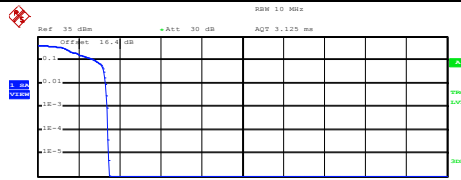


## A2. GSM

### Peak-to-Average Ratio

Mode	GSM850		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.28	3.28	PASS
Middle CH	0.24	3.40	
Highest CH	0.28	3.40	
Mode	GSM1900		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.24	3.68	PASS
Middle CH	0.24	3.72	
Highest CH	0.20	3.60	



GSM850 (GPRS class 8)	GSM850 (EDGE class 8)																
<p align="center"><b>Lowest Channel</b></p>  <p>Ref: 35 dBm    *Att: 30 dB    AQT: 3.125 ms</p> <p>Center: 824.2 MHz    2 dB/    Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean: 31.80 dBm Peak: 32.05 dBm Crest: 0.25 dB</p> <table border="1"> <tr><td>10 %</td><td>0.20 dB</td></tr> <tr><td>1 %</td><td>0.24 dB</td></tr> <tr><td>.1 %</td><td>0.28 dB</td></tr> <tr><td>.01 %</td><td>0.28 dB</td></tr> </table> <p>Date: 29.MAY.2020 19:30:35</p>	10 %	0.20 dB	1 %	0.24 dB	.1 %	0.28 dB	.01 %	0.28 dB	<p align="center"><b>Lowest Channel</b></p>  <p>Ref: 35 dBm    *Att: 30 dB    AQT: 3.125 ms</p> <p>Center: 824.2 MHz    2 dB/    Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean: 25.72 dBm Peak: 29.09 dBm Crest: 3.36 dB</p> <table border="1"> <tr><td>10 %</td><td>2.64 dB</td></tr> <tr><td>1 %</td><td>3.16 dB</td></tr> <tr><td>.1 %</td><td>3.28 dB</td></tr> <tr><td>.01 %</td><td>3.32 dB</td></tr> </table> <p>Date: 29.MAY.2020 19:44:29</p>	10 %	2.64 dB	1 %	3.16 dB	.1 %	3.28 dB	.01 %	3.32 dB
10 %	0.20 dB																
1 %	0.24 dB																
.1 %	0.28 dB																
.01 %	0.28 dB																
10 %	2.64 dB																
1 %	3.16 dB																
.1 %	3.28 dB																
.01 %	3.32 dB																
<p align="center"><b>Middle Channel</b></p>  <p>Ref: 35 dBm    *Att: 30 dB    AQT: 3.125 ms</p> <p>Center: 836.4 MHz    2 dB/    Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean: 31.76 dBm Peak: 32.05 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>0.24 dB</td></tr> </table> <p>Date: 29.MAY.2020 19:30:47</p>	10 %	0.20 dB	1 %	0.24 dB	.1 %	0.24 dB	.01 %	0.24 dB	<p align="center"><b>Middle Channel</b></p>  <p>Ref: 35 dBm    *Att: 30 dB    AQT: 3.125 ms</p> <p>Center: 836.4 MHz    2 dB/    Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean: 25.54 dBm Peak: 29.02 dBm Crest: 3.47 dB</p> <table border="1"> <tr><td>10 %</td><td>2.68 dB</td></tr> <tr><td>1 %</td><td>3.32 dB</td></tr> <tr><td>.1 %</td><td>3.40 dB</td></tr> <tr><td>.01 %</td><td>3.48 dB</td></tr> </table> <p>Date: 29.MAY.2020 19:44:42</p>	10 %	2.68 dB	1 %	3.32 dB	.1 %	3.40 dB	.01 %	3.48 dB
10 %	0.20 dB																
1 %	0.24 dB																
.1 %	0.24 dB																
.01 %	0.24 dB																
10 %	2.68 dB																
1 %	3.32 dB																
.1 %	3.40 dB																
.01 %	3.48 dB																
<p align="center"><b>Highest Channel</b></p>  <p>Ref: 35 dBm    *Att: 30 dB    AQT: 3.125 ms</p> <p>Center: 848.8 MHz    2 dB/    Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean: 31.85 dBm Peak: 32.12 dBm Crest: 0.27 dB</p> <table border="1"> <tr><td>10 %</td><td>0.20 dB</td></tr> <tr><td>1 %</td><td>0.20 dB</td></tr> <tr><td>.1 %</td><td>0.28 dB</td></tr> <tr><td>.01 %</td><td>0.28 dB</td></tr> </table> <p>Date: 29.MAY.2020 19:30:58</p>	10 %	0.20 dB	1 %	0.20 dB	.1 %	0.28 dB	.01 %	0.28 dB	<p align="center"><b>Highest Channel</b></p>  <p>Ref: 35 dBm    *Att: 30 dB    AQT: 3.125 ms</p> <p>Center: 848.8 MHz    2 dB/    Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean: 25.54 dBm Peak: 29.02 dBm Crest: 3.48 dB</p> <table border="1"> <tr><td>10 %</td><td>2.80 dB</td></tr> <tr><td>1 %</td><td>3.32 dB</td></tr> <tr><td>.1 %</td><td>3.40 dB</td></tr> <tr><td>.01 %</td><td>3.44 dB</td></tr> </table> <p>Date: 29.MAY.2020 19:44:55</p>	10 %	2.80 dB	1 %	3.32 dB	.1 %	3.40 dB	.01 %	3.44 dB
10 %	0.20 dB																
1 %	0.20 dB																
.1 %	0.28 dB																
.01 %	0.28 dB																
10 %	2.80 dB																
1 %	3.32 dB																
.1 %	3.40 dB																
.01 %	3.44 dB																

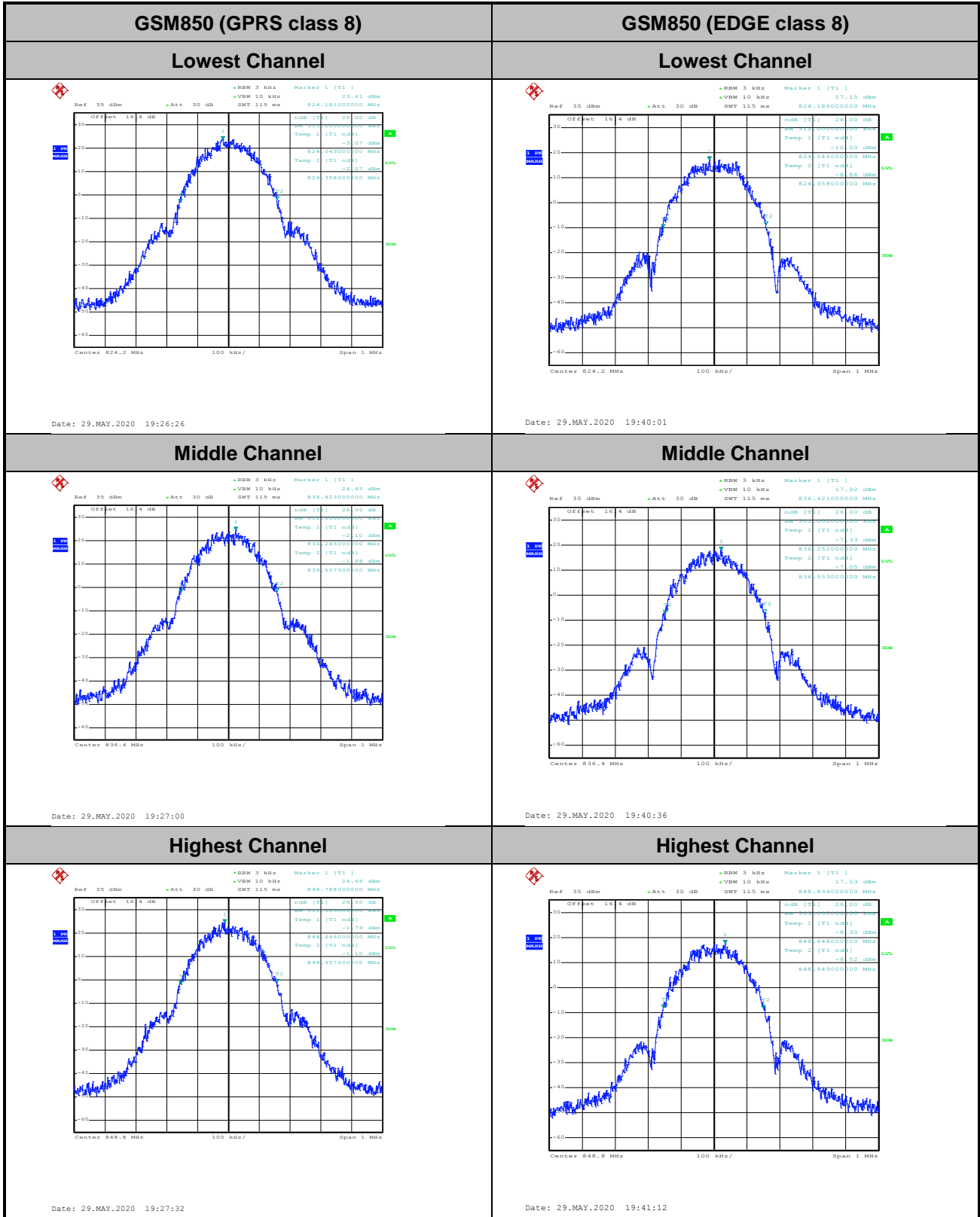


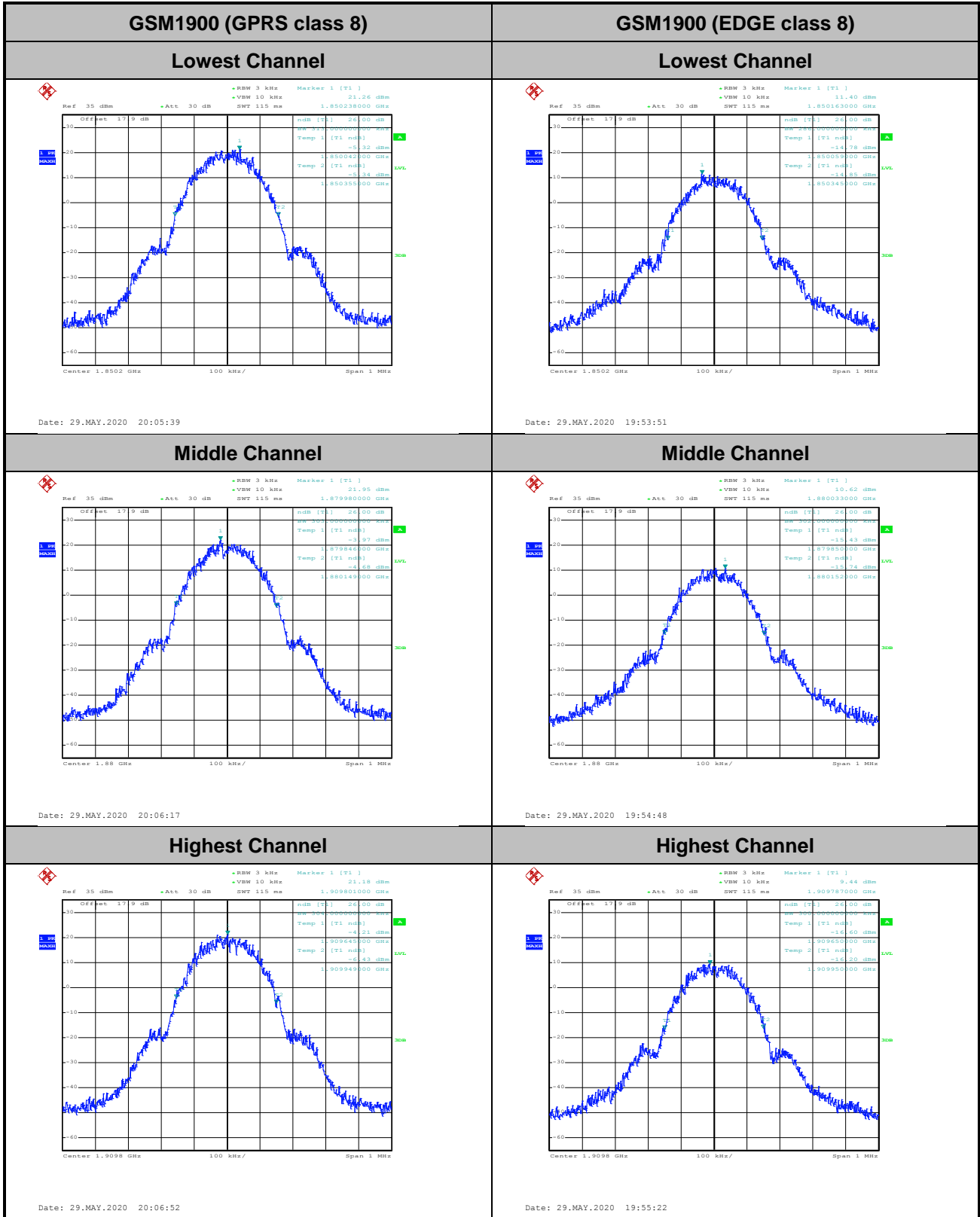
GSM1900 (GPRS class 8)	GSM1900 (EDGE class 8)
<p style="text-align: center;"><b>Lowest Channel</b></p> <p style="text-align: center;">Date: 29.MAY.2020 20:07:20</p>	<p style="text-align: center;"><b>Lowest Channel</b></p> <p style="text-align: center;">Date: 29.MAY.2020 19:58:21</p>
<p style="text-align: center;"><b>Middle Channel</b></p> <p style="text-align: center;">Date: 29.MAY.2020 20:07:38</p>	<p style="text-align: center;"><b>Middle Channel</b></p> <p style="text-align: center;">Date: 29.MAY.2020 19:58:33</p>
<p style="text-align: center;"><b>Highest Channel</b></p> <p style="text-align: center;">Date: 29.MAY.2020 20:07:50</p>	<p style="text-align: center;"><b>Highest Channel</b></p> <p style="text-align: center;">Date: 29.MAY.2020 19:58:43</p>



**26dB Bandwidth**

Mode	GSM850: 26dB BW(MHz)	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.315	0.312
Middle CH	0.312	0.301
Highest CH	0.311	0.303
Mode	GSM1900: 26dB BW(MHz)	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.313	0.286
Middle CH	0.303	0.302
Highest CH	0.302	0.300

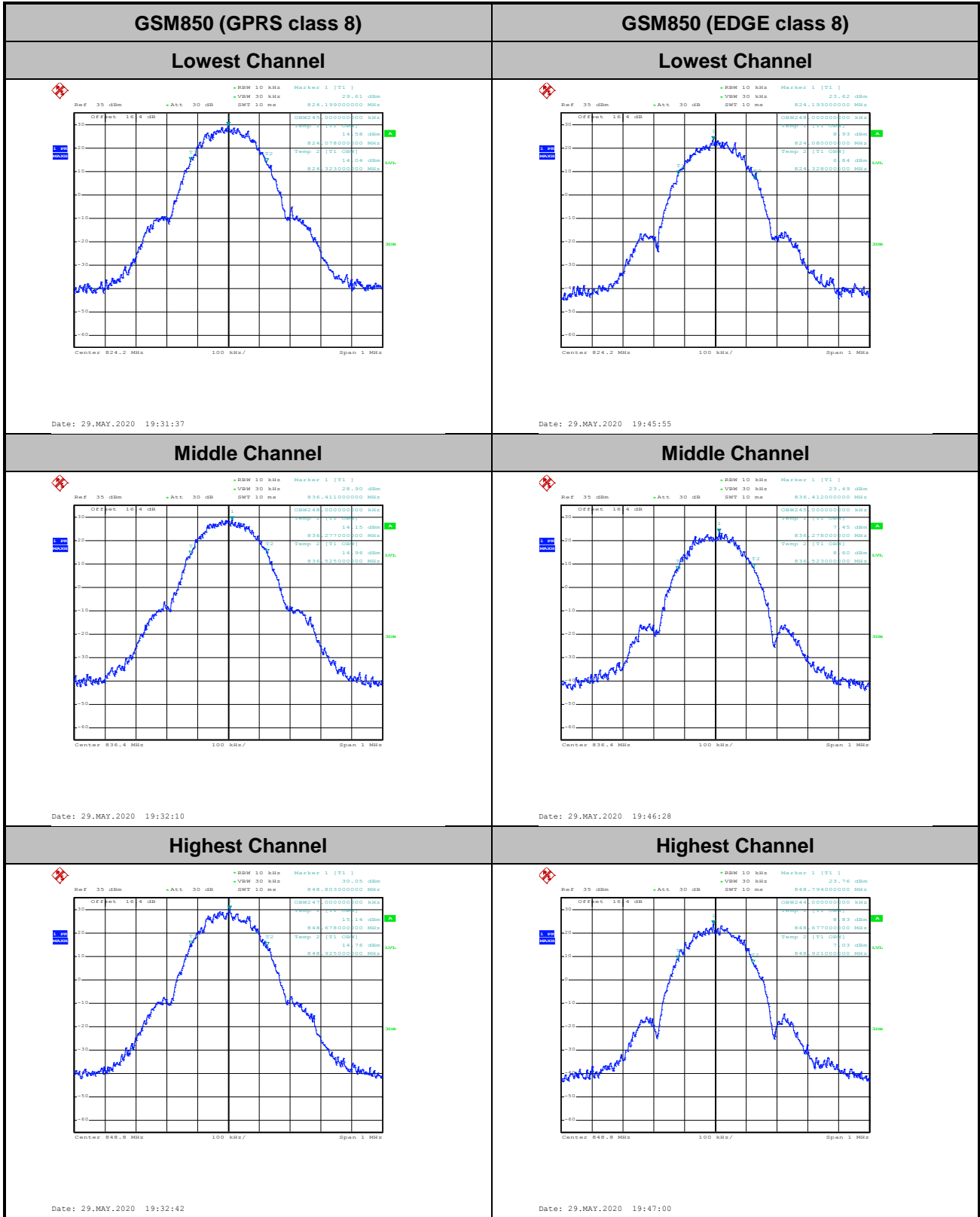




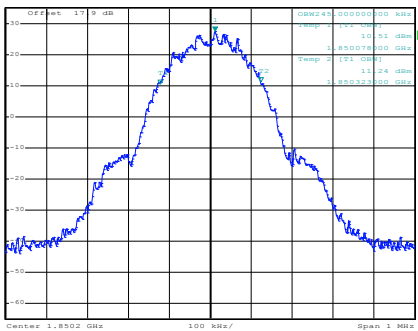
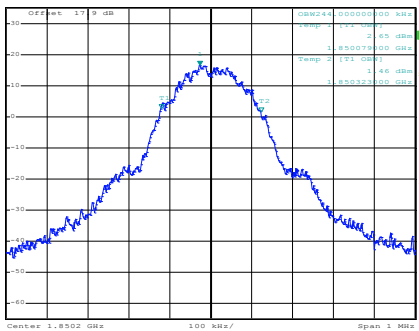
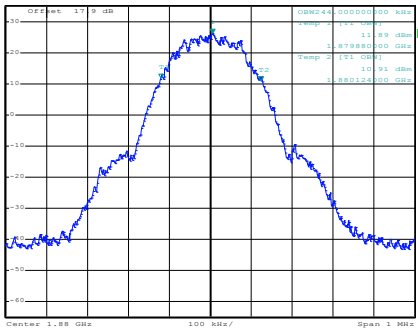
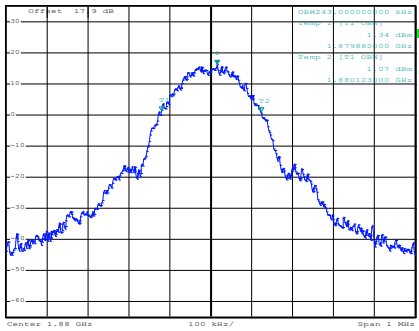
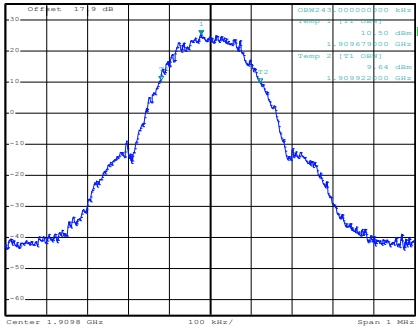
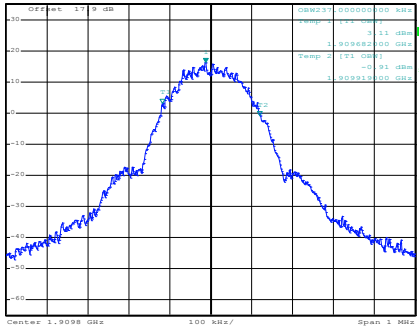


**Occupied Bandwidth**

Mode	GSM850: 99% OBW (MHz)	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.245	0.248
Middle CH	0.248	0.245
Highest CH	0.247	0.244
Mode	GSM1900: 99% OBW (MHz)	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.245	0.244
Middle CH	0.244	0.243
Highest CH	0.243	0.237





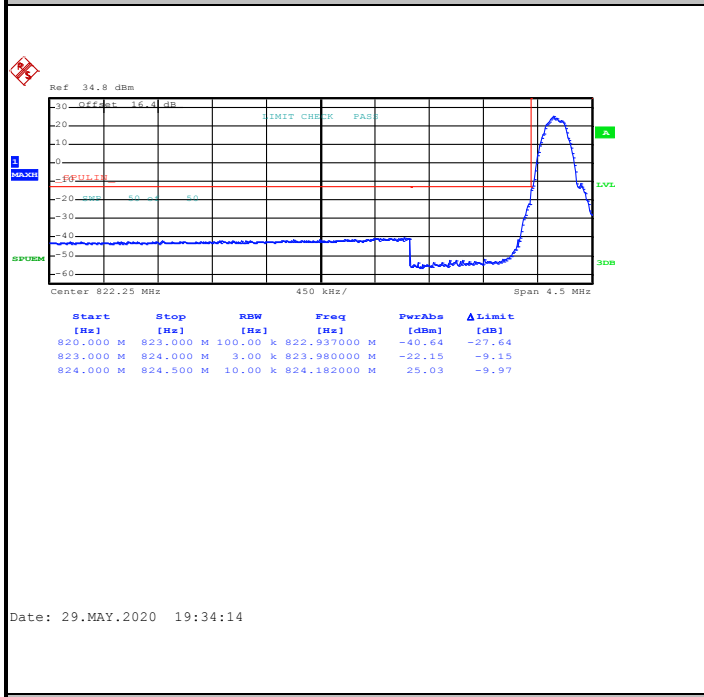
GSM1900 (GPRS class 8)	GSM1900 (EDGE class 8)
<p align="center"><b>Lowest Channel</b></p>  <p>Date: 29.MAY.2020 20:11:20</p>	<p align="center"><b>Lowest Channel</b></p>  <p>Date: 29.MAY.2020 19:59:19</p>
<p align="center"><b>Middle Channel</b></p>  <p>Date: 29.MAY.2020 20:37:12</p>	<p align="center"><b>Middle Channel</b></p>  <p>Date: 29.MAY.2020 19:59:52</p>
<p align="center"><b>Highest Channel</b></p>  <p>Date: 29.MAY.2020 20:38:49</p>	<p align="center"><b>Highest Channel</b></p>  <p>Date: 29.MAY.2020 20:00:25</p>



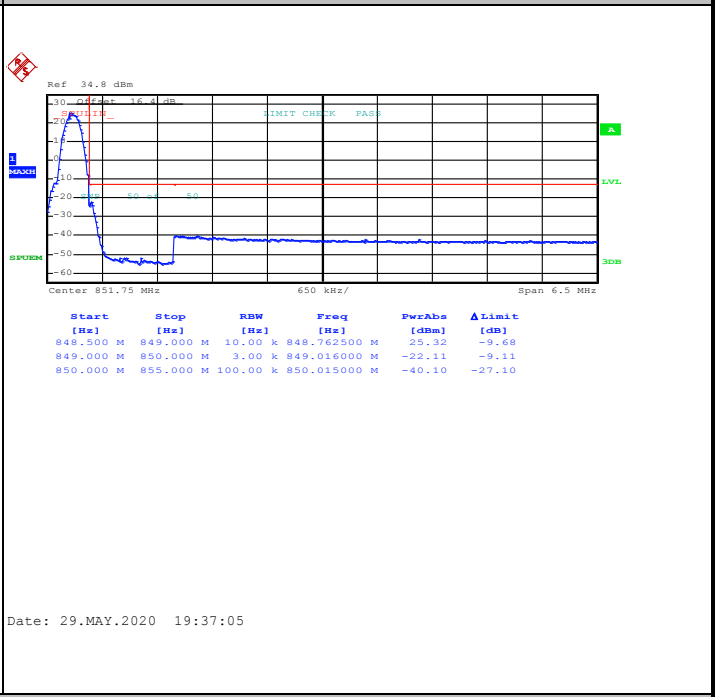
Conducted Band Edge

GSM850 (GPRS class 8)

Lowest Band Edge

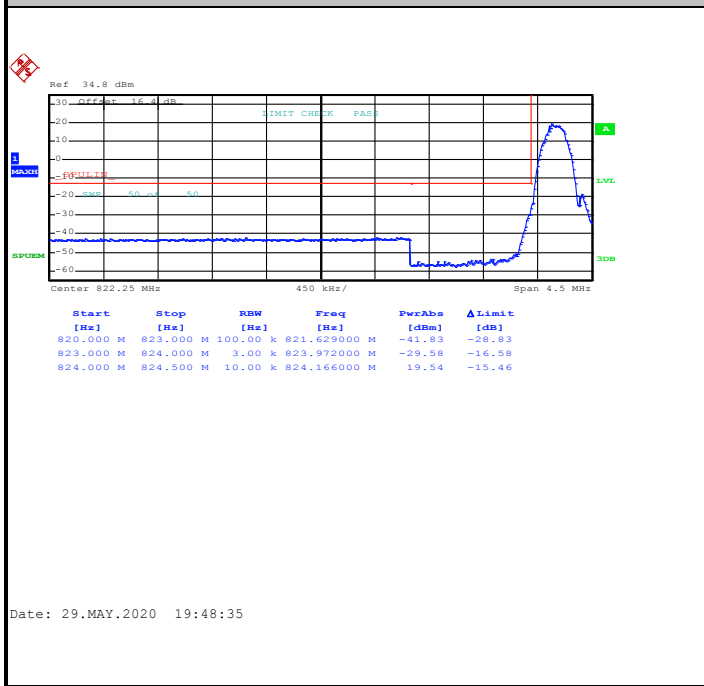


Highest Band Edge

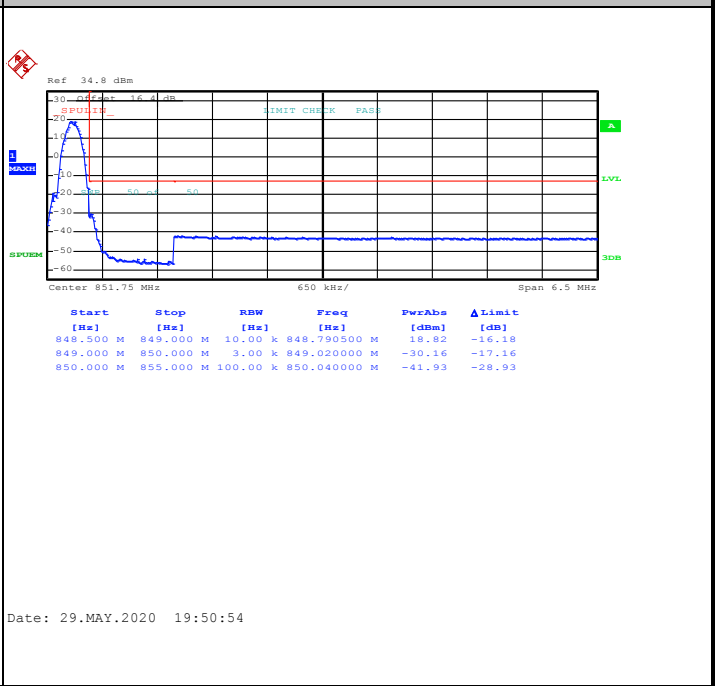


GSM850 (EDGE class 8)

Lowest Band Edge



Highest Band Edge

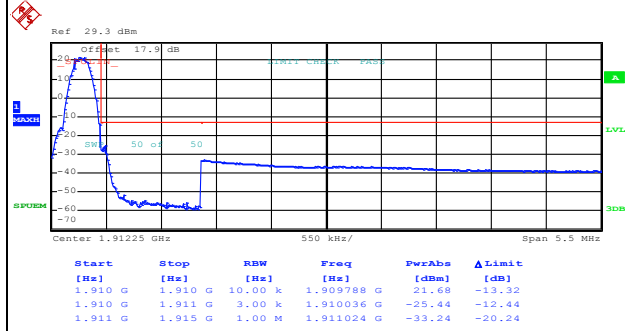
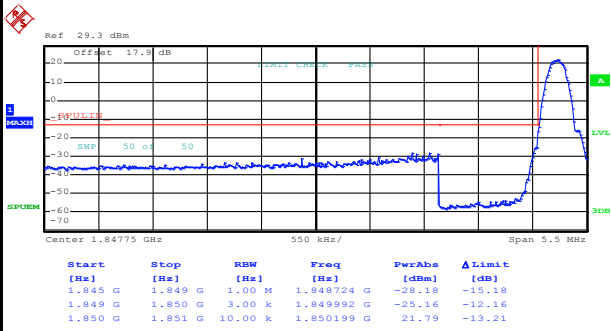




GSM1900 (GPRS class 8)

Lowest Band Edge

Highest Band Edge



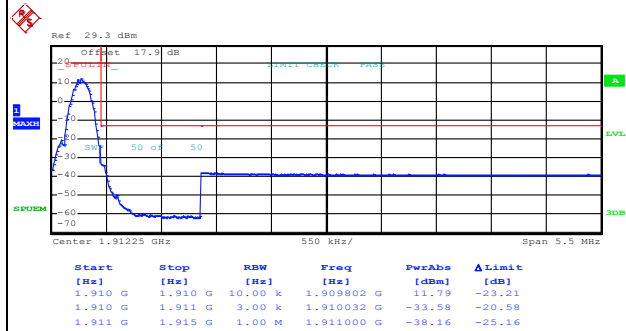
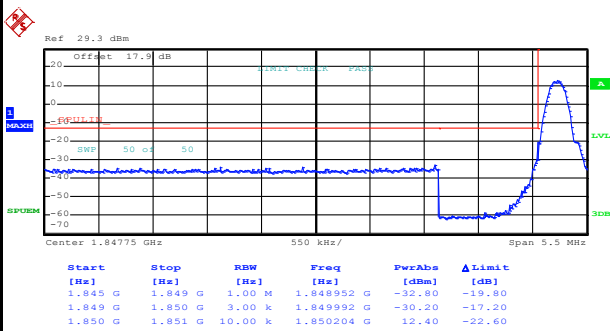
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GSM1900 (EDGE class 8)

Lowest Band Edge

Highest Band Edge

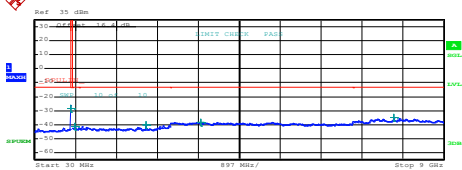
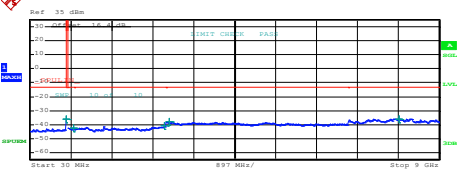
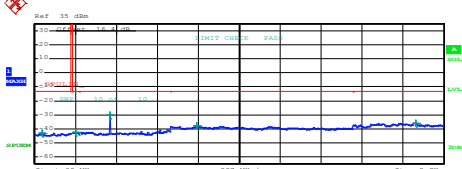
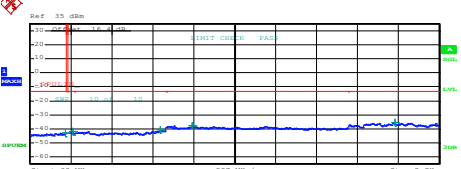
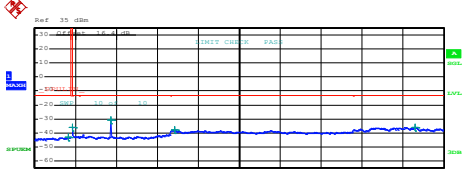
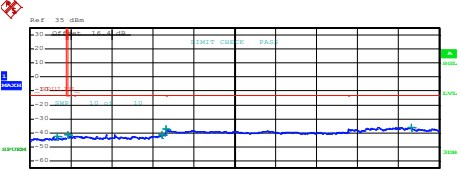


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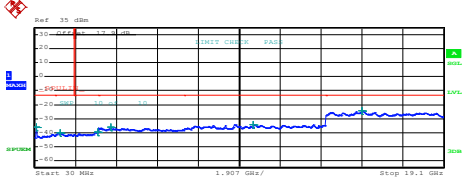
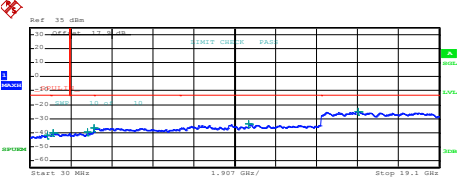
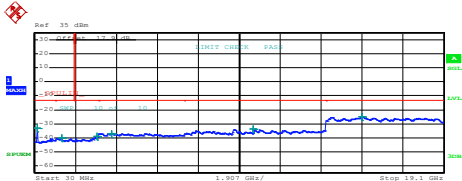
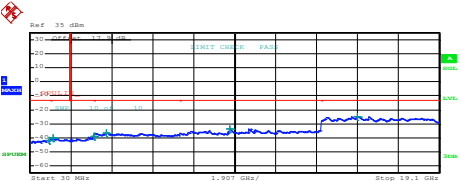
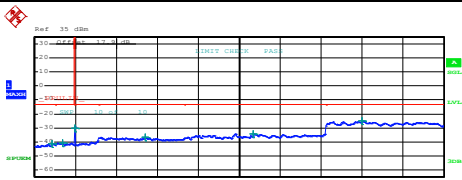
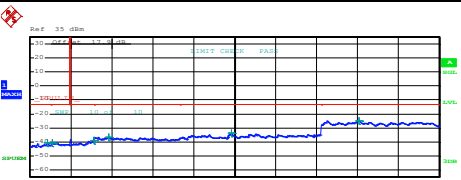
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# Conducted Spurious Emission

GSM850 (GPRS class 8)	GSM850 (EDGE class 8)																																																																								
Lowest Channel	Lowest Channel																																																																								
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**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	0.0203	0.0120	PASS
40	Normal Voltage	0.0084	0.0024	
30	Normal Voltage	0.0036	0.0036	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0024	0.0024	
0	Normal Voltage	0.0084	0.0060	
-10	Normal Voltage	0.0143	0.0072	
-20	Normal Voltage	0.0096	0.0060	
-30	Normal Voltage	0.0036	0.0036	
20	Maximum Voltage	0.0024	0.0012	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0036	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	0.0011	0.0106	PASS
40	Normal Voltage	0.0011	0.0064	
30	Normal Voltage	0.0032	0.0037	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0011	0.0011	
0	Normal Voltage	0.0011	0.0037	
-10	Normal Voltage	0.0016	0.0080	
-20	Normal Voltage	0.0021	0.0021	
-30	Normal Voltage	0.0021	0.0037	
20	Maximum Voltage	0.0011	0.0021	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0011	0.0011	

**Note:**

1. Normal Voltage = 4V ; Battery End Point (BEP) = 3.5 V ; Maximum Voltage =4.45 V
2. The frequency fundamental emissions stay within the authorized frequency block.

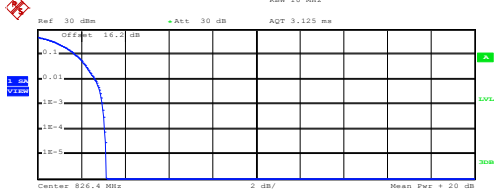

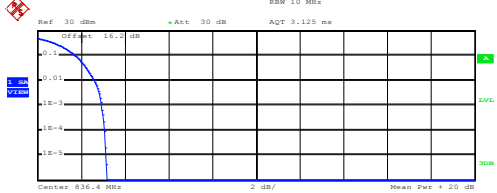
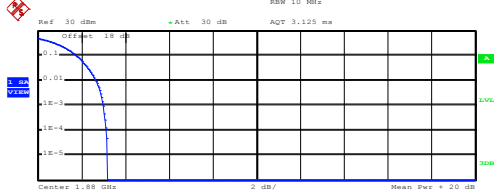
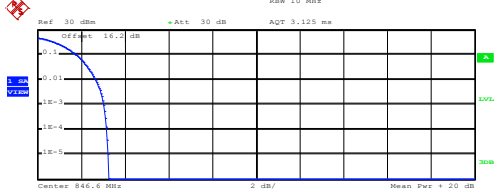
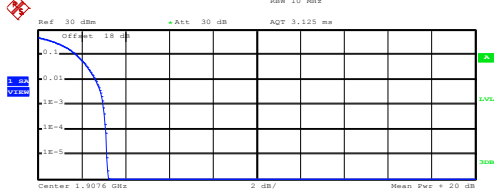


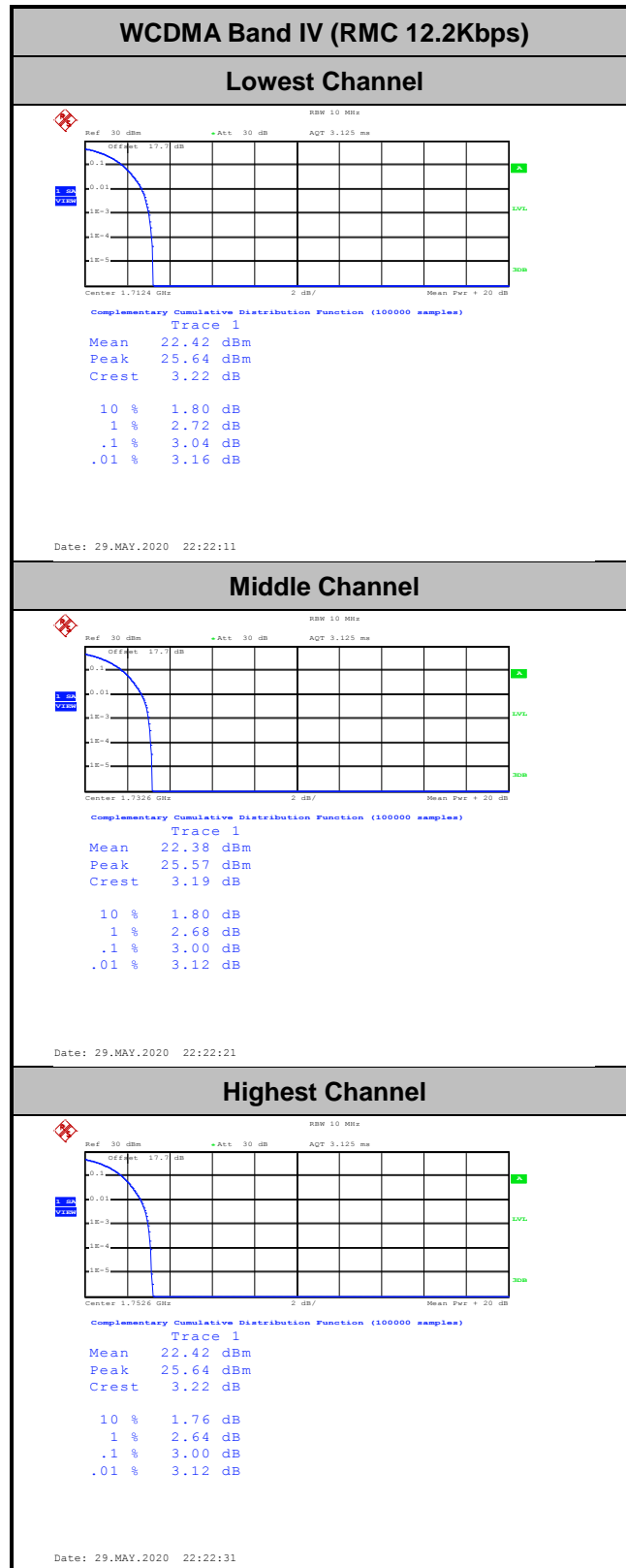
### A3. WCDMA

#### Peak-to-Average Ratio

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	2.96	3.04	3.04	<b>PASS</b>
Middle CH	2.96	3.00	3.00	
Highest CH	3.04	3.00	3.00	



WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
<p style="text-align: center;"><b>Lowest Channel</b></p>  <p>Center 826.4 MHz      2 dB/      Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 22.64 dBm Peak 25.78 dBm Crest 3.14 dB</p> <p>10 % 1.76 dB 1 % 2.64 dB .1 % 2.96 dB .01 % 3.08 dB</p> <p>Date: 29.MAY.2020 22:39:49</p>	<p style="text-align: center;"><b>Lowest Channel</b></p>  <p>Center 1.8524 GHz      2 dB/      Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 22.43 dBm Peak 25.64 dBm Crest 3.21 dB</p> <p>10 % 1.80 dB 1 % 2.68 dB .1 % 3.04 dB .01 % 3.12 dB</p> <p>Date: 29.MAY.2020 22:01:38</p>
<p style="text-align: center;"><b>Middle Channel</b></p>  <p>Center 836.6 MHz      2 dB/      Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 22.83 dBm Peak 25.99 dBm Crest 3.16 dB</p> <p>10 % 1.76 dB 1 % 2.60 dB .1 % 2.96 dB .01 % 3.08 dB</p> <p>Date: 29.MAY.2020 22:39:58</p>	<p style="text-align: center;"><b>Middle Channel</b></p>  <p>Center 1.88 GHz      2 dB/      Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 22.18 dBm Peak 25.36 dBm Crest 3.18 dB</p> <p>10 % 1.80 dB 1 % 2.68 dB .1 % 3.00 dB .01 % 3.12 dB</p> <p>Date: 29.MAY.2020 22:01:47</p>
<p style="text-align: center;"><b>Highest Channel</b></p>  <p>Center 846.8 MHz      2 dB/      Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 22.79 dBm Peak 26.06 dBm Crest 3.27 dB</p> <p>10 % 1.80 dB 1 % 2.68 dB .1 % 3.04 dB .01 % 3.16 dB</p> <p>Date: 29.MAY.2020 22:40:07</p>	<p style="text-align: center;"><b>Highest Channel</b></p>  <p>Center 1.9076 GHz      2 dB/      Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean 22.15 dBm Peak 25.36 dBm Crest 3.21 dB</p> <p>10 % 1.76 dB 1 % 2.64 dB .1 % 3.00 dB .01 % 3.12 dB</p> <p>Date: 29.MAY.2020 22:01:56</p>





**26dB Bandwidth**

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

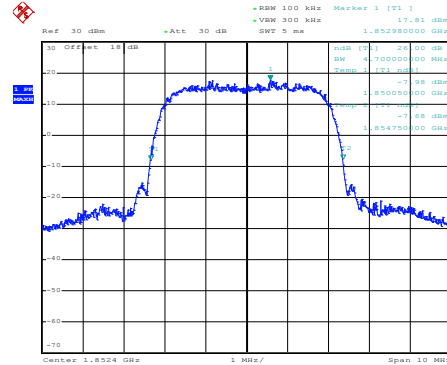
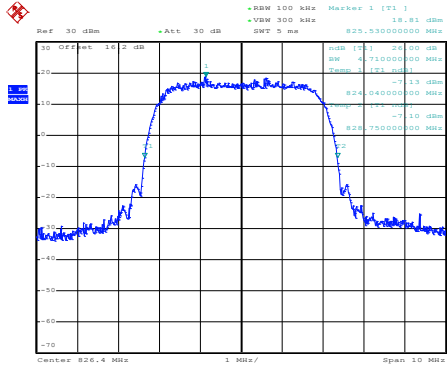


WCDMA Band V (RMC 12.2Kbps)

WCDMA Band II (RMC 12.2Kbps)

Lowest Channel

Lowest Channel

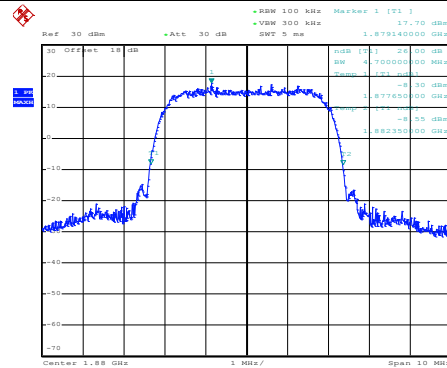
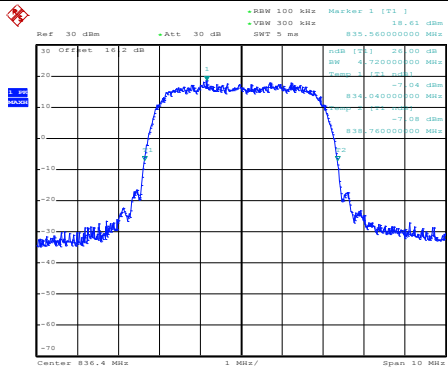


Date: 29.MAY.2020 22:28:44

Date: 29.MAY.2020 21:49:26

Middle Channel

Middle Channel

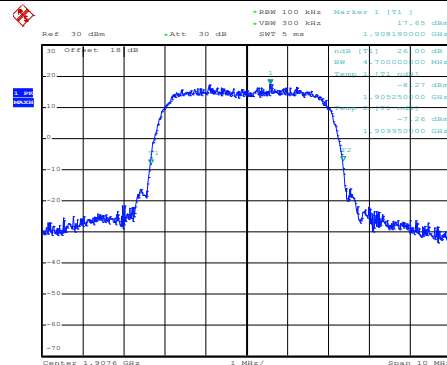
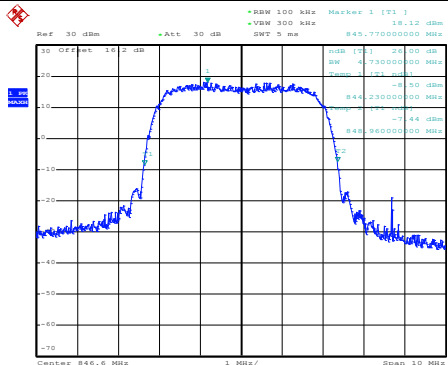


Date: 29.MAY.2020 22:29:17

Date: 29.MAY.2020 21:50:02

Highest Channel

Highest Channel



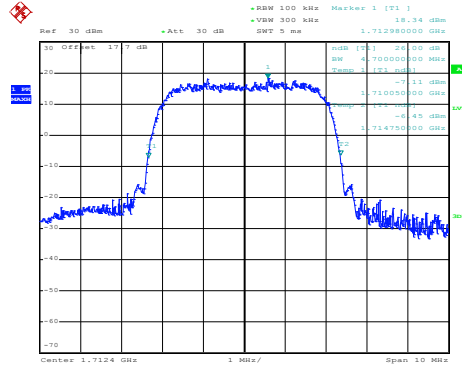
Date: 29.MAY.2020 22:29:49

Date: 29.MAY.2020 21:50:42



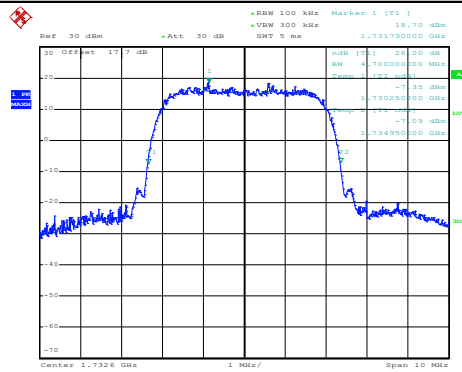
### WCDMA Band IV (RMC 12.2Kbps)

#### Lowest Channel



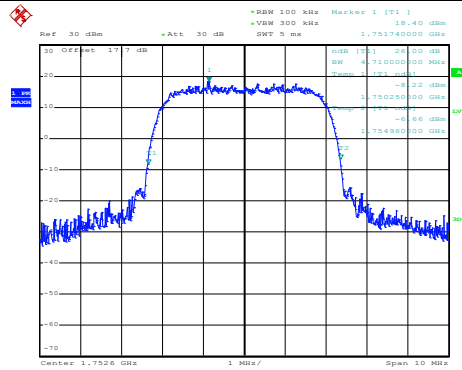
Date: 29.MAY.2020 22:09:55

#### Middle Channel



Date: 29.MAY.2020 22:10:34

#### Highest Channel



Date: 29.MAY.2020 22:11:10



**Occupied Bandwidth**

<b>Mode</b>	<b>WCDMA Band V 99% OBW(MHz)</b>	<b>WCDMA Band II 99% OBW(MHz)</b>	<b>WCDMA Band IV 99% OBW(MHz)</b>
<b>Mod.</b>	<b>RMC 12.2Kbps</b>	<b>RMC 12.2Kbps</b>	<b>RMC 12.2Kbps</b>
<b>Lowest CH</b>	4.15	4.15	4.15
<b>Middle CH</b>	4.15	4.16	4.15
<b>Highest CH</b>	4.14	4.15	4.15

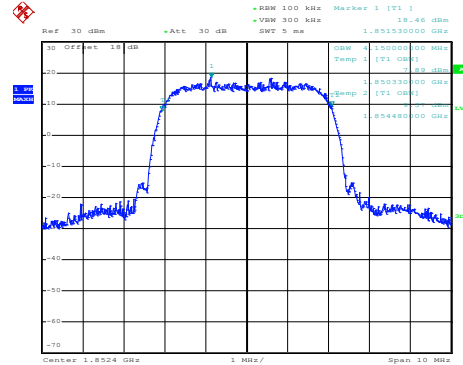
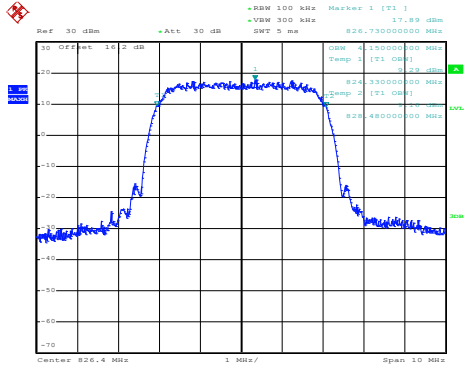


WCDMA Band V (RMC 12.2Kbps)

WCDMA Band II (RMC 12.2Kbps)

Lowest Channel

Lowest Channel

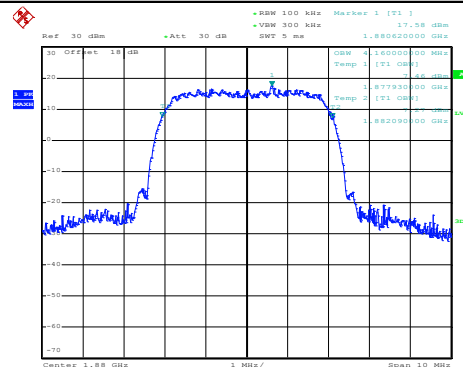
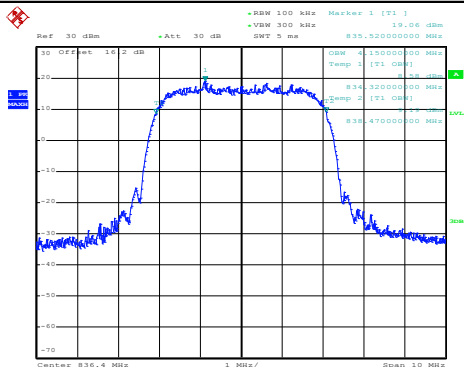


Date: 29.MAY.2020 22:32:52

Date: 29.MAY.2020 21:54:05

Middle Channel

Middle Channel

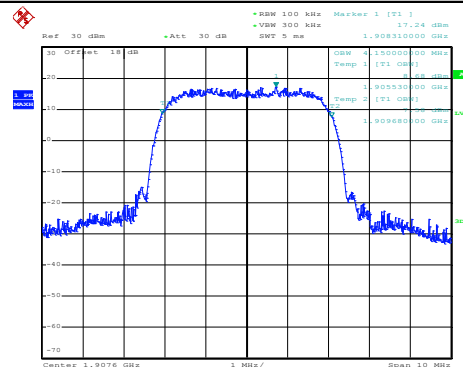
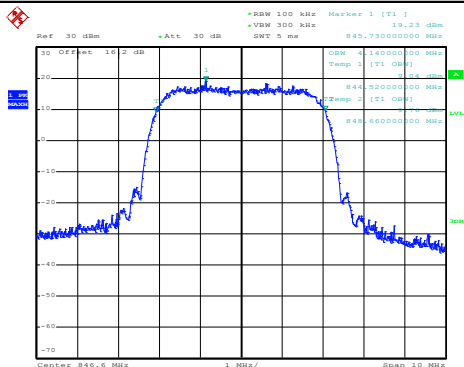


Date: 29.MAY.2020 22:33:25

Date: 29.MAY.2020 21:54:37

Highest Channel

Highest Channel



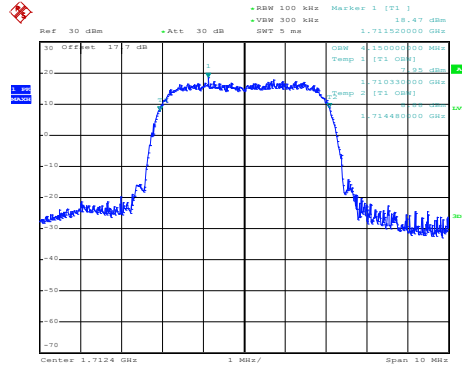
Date: 29.MAY.2020 22:33:56

Date: 29.MAY.2020 21:55:13



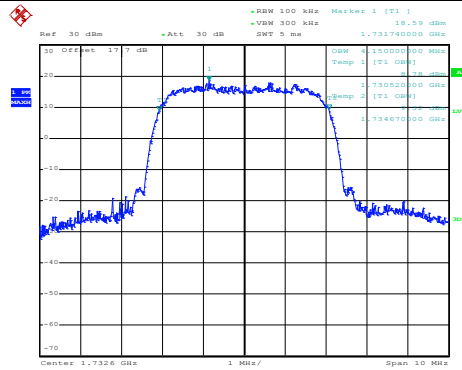
### WCDMA Band IV (RMC 12.2Kbps)

#### Lowest Channel



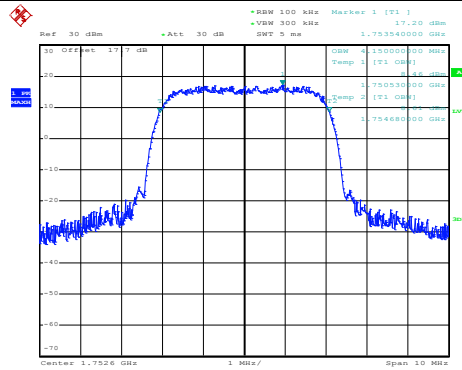
Date: 29.MAY.2020 22:14:51

#### Middle Channel



Date: 29.MAY.2020 22:15:26

#### Highest Channel



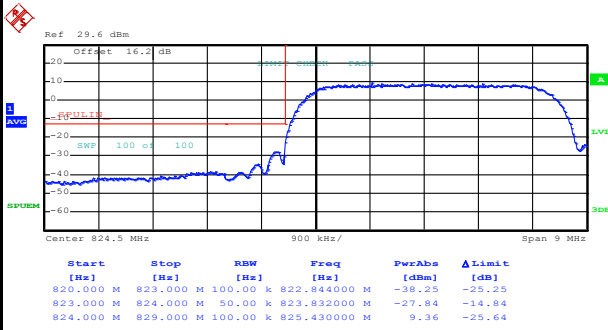
Date: 29.MAY.2020 22:16:02



# Conducted Band Edge

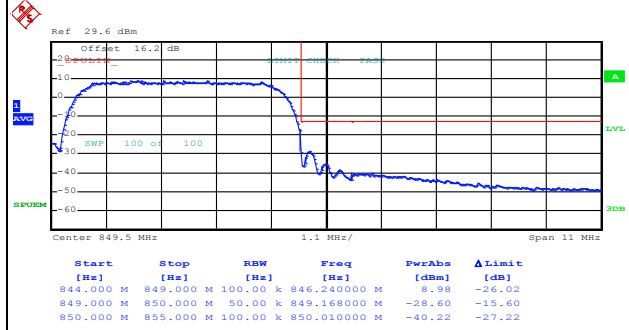
## WCDMA Band V (RMC 12.2Kbps)

### Lowest Band Edge



Date: 29.MAY.2020 22:36:43

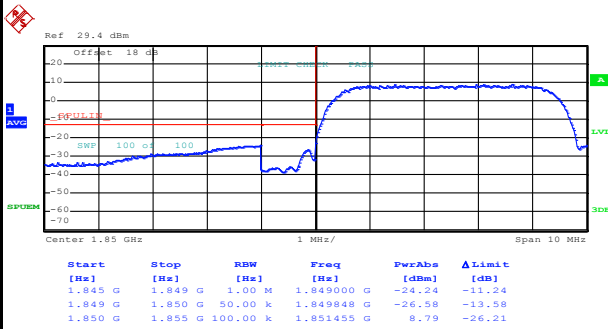
### Highest Band Edge



Date: 29.MAY.2020 22:39:31

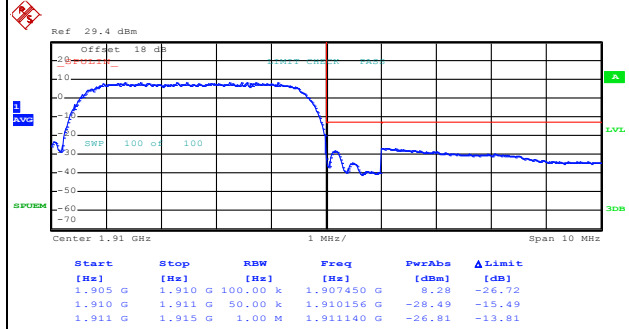
## WCDMA Band II (RMC 12.2Kbps)

### Lowest Band Edge



Date: 29.MAY.2020 21:58:01

### Highest Band Edge



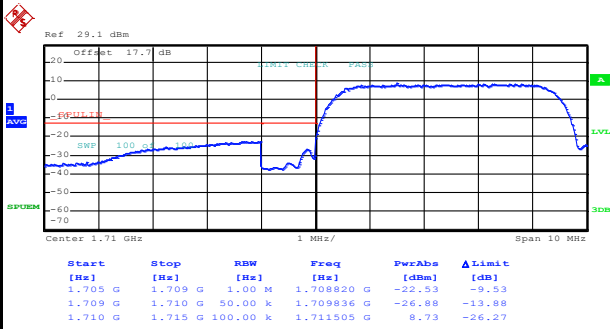
Date: 29.MAY.2020 22:00:50



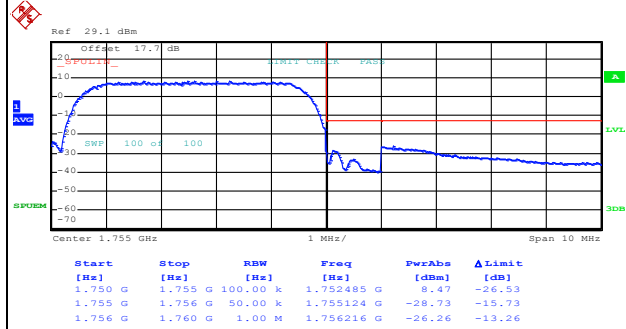
WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



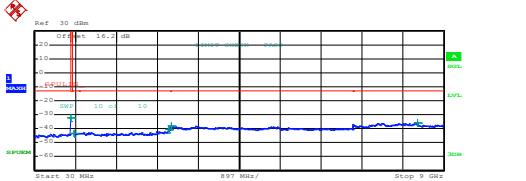
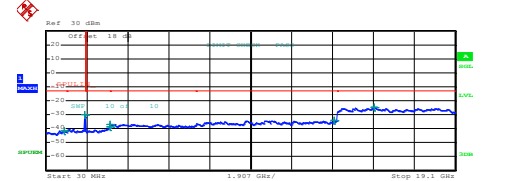
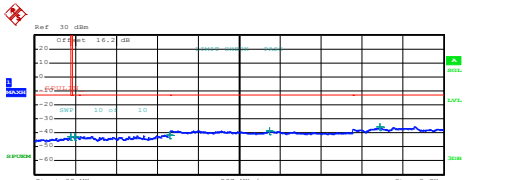
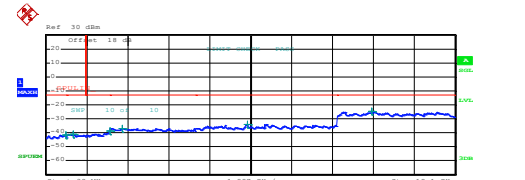
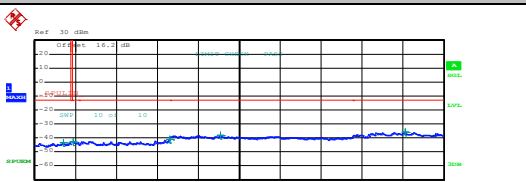
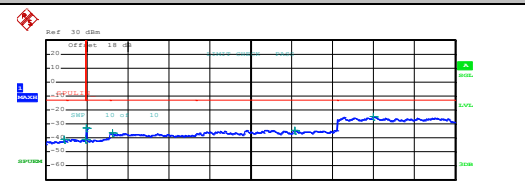
Date: 29.MAY.2020 22:18:50



Date: 29.MAY.2020 22:21:43



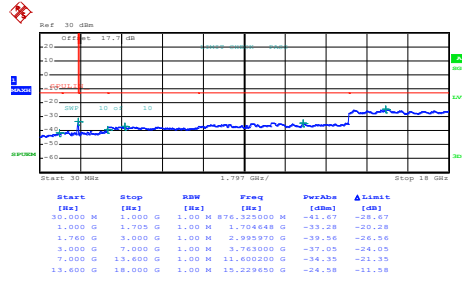
# Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)																																																																																										
Lowest Channel	Lowest Channel																																																																																										
 <table border="1" data-bbox="239 660 702 739"> <thead> <tr> <th>Start</th> <th>Stop</th> <th>RBW</th> <th>Freq</th> <th>PwrAbs</th> <th>ΔLimit</th> </tr> <tr> <th>[Hz]</th> <th>[Hz]</th> <th>[Hz]</th> <th>[Hz]</th> <th>[dBm]</th> <th>[dB]</th> </tr> </thead> <tbody> <tr> <td>30,000 M</td> <td>820,000 M</td> <td>1,000 M</td> <td>810,012500 M</td> <td>-32.49</td> <td>-19.49</td> </tr> <tr> <td>835,000 M</td> <td>1,000 G</td> <td>1,000 G</td> <td>892,700000 M</td> <td>-43.11</td> <td>-30.11</td> </tr> <tr> <td>1,000 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>2,972500 G</td> <td>-40.72</td> <td>-27.72</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>3,022000 G</td> <td>-38.17</td> <td>-25.17</td> </tr> <tr> <td>7,000 G</td> <td>9,000 G</td> <td>1,000 M</td> <td>8,418000 G</td> <td>-35.75</td> <td>-22.75</td> </tr> </tbody> </table> <p>Date: 29.MAY.2020 22:30:41</p>	Start	Stop	RBW	Freq	PwrAbs	ΔLimit	[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]	30,000 M	820,000 M	1,000 M	810,012500 M	-32.49	-19.49	835,000 M	1,000 G	1,000 G	892,700000 M	-43.11	-30.11	1,000 G	3,000 G	1,000 M	2,972500 G	-40.72	-27.72	3,000 G	7,000 G	1,000 M	3,022000 G	-38.17	-25.17	7,000 G	9,000 G	1,000 M	8,418000 G	-35.75	-22.75	 <table border="1" data-bbox="877 660 1340 739"> <thead> <tr> <th>Start</th> <th>Stop</th> <th>RBW</th> <th>Freq</th> <th>PwrAbs</th> <th>ΔLimit</th> </tr> <tr> <th>[Hz]</th> <th>[Hz]</th> <th>[Hz]</th> <th>[Hz]</th> <th>[dBm]</th> <th>[dB]</th> </tr> </thead> <tbody> <tr> <td>30,000 M</td> <td>1,000 G</td> <td>1,000 M</td> <td>854,742500 M</td> <td>-41.30</td> <td>-28.30</td> </tr> <tr> <td>1,000 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>1,841400 G</td> <td>-29.85</td> <td>-16.85</td> </tr> <tr> <td>3,000 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>2,990500 G</td> <td>-39.86</td> <td>-25.86</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>3,000000 G</td> <td>-36.98</td> <td>-23.98</td> </tr> <tr> <td>7,000 G</td> <td>13,600 G</td> <td>1,000 M</td> <td>13,463000 G</td> <td>-34.19</td> <td>-21.19</td> </tr> <tr> <td>13,600 G</td> <td>19,100 G</td> <td>1,000 M</td> <td>15,333875 G</td> <td>-24.85</td> <td>-11.85</td> </tr> </tbody> </table> <p>Date: 29.MAY.2020 21:51:36</p>	Start	Stop	RBW	Freq	PwrAbs	ΔLimit	[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]	30,000 M	1,000 G	1,000 M	854,742500 M	-41.30	-28.30	1,000 G	3,000 G	1,000 M	1,841400 G	-29.85	-16.85	3,000 G	3,000 G	1,000 M	2,990500 G	-39.86	-25.86	3,000 G	7,000 G	1,000 M	3,000000 G	-36.98	-23.98	7,000 G	13,600 G	1,000 M	13,463000 G	-34.19	-21.19	13,600 G	19,100 G	1,000 M	15,333875 G	-24.85	-11.85
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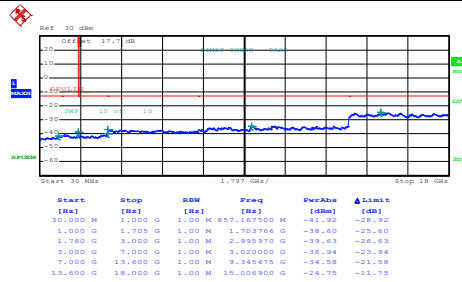
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



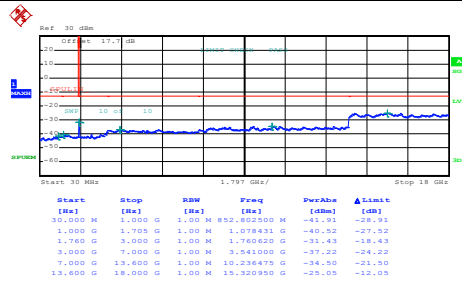
Date: 29.MAY.2020 22:12:08

Middle Channel



Date: 29.MAY.2020 22:13:20

Highest Channel



Date: 29.MAY.2020 22:14:14



**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	0.0024	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0024	
-20	Normal Voltage	0.0167	
-30	Normal Voltage	0.0167	
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	0.0011	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0027	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0064	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0023	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0052	
-20	Normal Voltage	0.0035	
-30	Normal Voltage	0.0075	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

**Note:**

1. Normal Voltage = 4V ; Battery End Point (BEP) = 3.5 V ; Maximum Voltage =4.45 V
2. The frequency fundamental emissions stay within the authorized frequency block.



## A4. CDMA

### Peak-to-Average Ratio

Mode	CDMA BC0	CDMA BC0	Limit: 13dB
Mod.	1xRTT	1xEV-DO Rev. 0	Result
Lowest CH	4.36	3.84	<b>PASS</b>
Middle CH	4.16	3.96	
Highest CH	4.12	3.72	



CDMA BC0 (1xRTT)	CDMA BC0 (1xEV-DO Rev. 0)																
<p align="center"><b>Lowest Channel</b></p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.46 dBm Peak 26.93 dBm Crest 4.48 dB</p> <table border="1"> <tr><td>10 %</td><td>2.48 dB</td></tr> <tr><td>1 %</td><td>4.08 dB</td></tr> <tr><td>.1 %</td><td>4.36 dB</td></tr> <tr><td>.01 %</td><td>4.44 dB</td></tr> </table> <p>Date: 11.JUN.2020 21:09:54</p>	10 %	2.48 dB	1 %	4.08 dB	.1 %	4.36 dB	.01 %	4.44 dB	<p align="center"><b>Lowest Channel</b></p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.67 dBm Peak 28.63 dBm Crest 3.96 dB</p> <table border="1"> <tr><td>10 %</td><td>3.08 dB</td></tr> <tr><td>1 %</td><td>3.80 dB</td></tr> <tr><td>.1 %</td><td>3.84 dB</td></tr> <tr><td>.01 %</td><td>3.92 dB</td></tr> </table> <p>Date: 11.JUN.2020 21:44:52</p>	10 %	3.08 dB	1 %	3.80 dB	.1 %	3.84 dB	.01 %	3.92 dB
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<p align="center"><b>Middle Channel</b></p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.68 dBm Peak 25.95 dBm Crest 4.26 dB</p> <table border="1"> <tr><td>10 %</td><td>2.40 dB</td></tr> <tr><td>1 %</td><td>3.88 dB</td></tr> <tr><td>.1 %</td><td>4.16 dB</td></tr> <tr><td>.01 %</td><td>4.24 dB</td></tr> </table> <p>Date: 11.JUN.2020 21:10:17</p>	10 %	2.40 dB	1 %	3.88 dB	.1 %	4.16 dB	.01 %	4.24 dB	<p align="center"><b>Middle Channel</b></p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.83 dBm Peak 28.84 dBm Crest 4.01 dB</p> <table border="1"> <tr><td>10 %</td><td>3.60 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>3.96 dB</td></tr> </table> <p>Date: 11.JUN.2020 21:45:01</p>	10 %	3.60 dB	1 %	3.88 dB	.1 %	3.96 dB	.01 %	3.96 dB
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<p align="center"><b>Highest Channel</b></p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.68 dBm Peak 27.92 dBm Crest 4.24 dB</p> <table border="1"> <tr><td>10 %</td><td>2.48 dB</td></tr> <tr><td>1 %</td><td>3.96 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: 11.JUN.2020 21:10:45</p>	10 %	2.48 dB	1 %	3.96 dB	.1 %	4.12 dB	.01 %	4.20 dB	<p align="center"><b>Highest Channel</b></p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.90 dBm Peak 28.70 dBm Crest 3.80 dB</p> <table border="1"> <tr><td>10 %</td><td>3.04 dB</td></tr> <tr><td>1 %</td><td>3.64 dB</td></tr> <tr><td>.1 %</td><td>3.72 dB</td></tr> <tr><td>.01 %</td><td>3.80 dB</td></tr> </table> <p>Date: 11.JUN.2020 21:45:10</p>	10 %	3.04 dB	1 %	3.64 dB	.1 %	3.72 dB	.01 %	3.80 dB
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1 %	3.96 dB																
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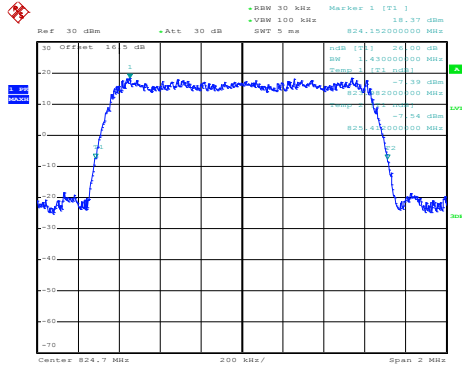
**26dB Bandwidth**

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



CDMA BC0 (1xRTT)

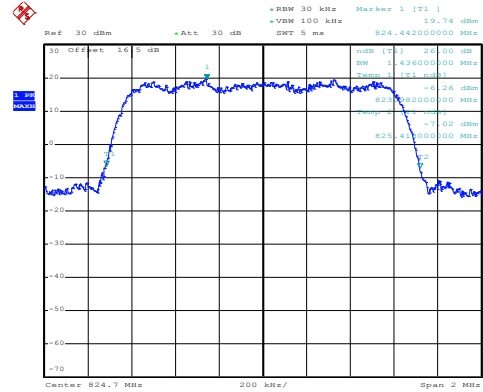
Lowest Channel



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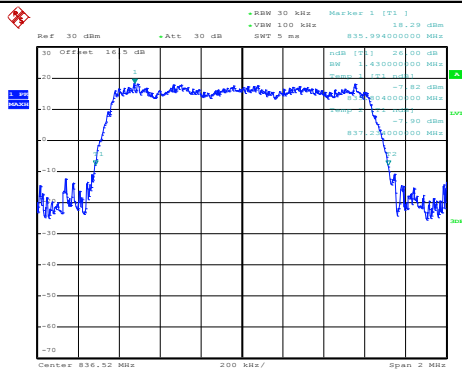
CDMA BC0 (1xEV-DO Rev. 0)

Lowest Channel



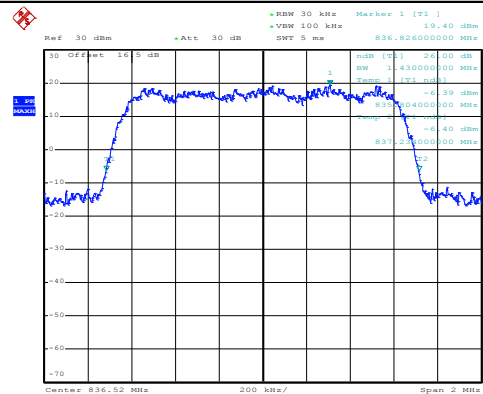
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Middle Channel



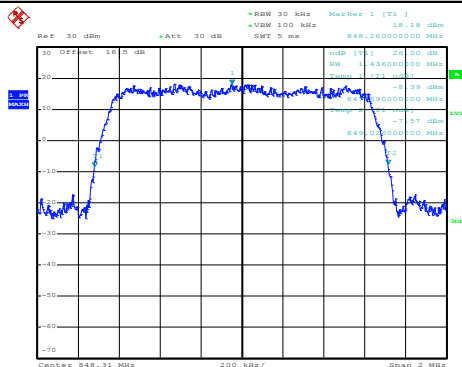
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Middle Channel



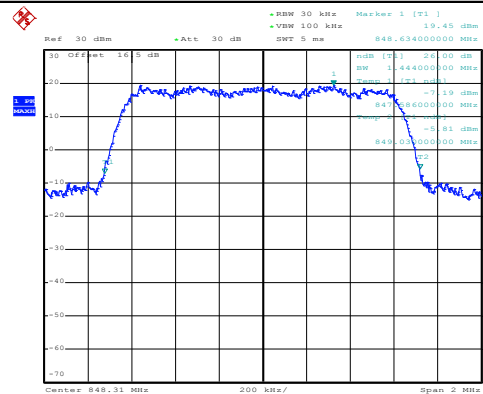
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Highest Channel



Date: 11.JUN.2020 21:05:27

Highest Channel



Date: 11.JUN.2020 21:42:03



**Occupied Bandwidth**

Mode	CDMA BC0 99% OBW(MHz)	CDMA BC0 99% OBW(MHz)
Mod.	1xRTT	1xEV-DO Rev. 0
Lowest CH	1.27	1.28
Middle CH	1.28	1.27
Highest CH	1.28	1.28

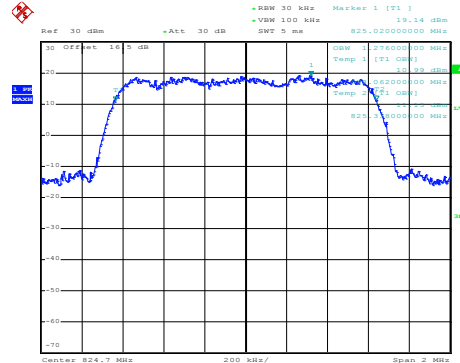
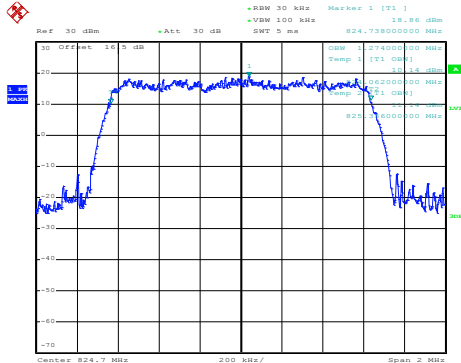


CDMA BC0 (1xRTT)

CDMA BC0 (1xEV-DO Rev. 0)

Lowest Channel

Lowest Channel

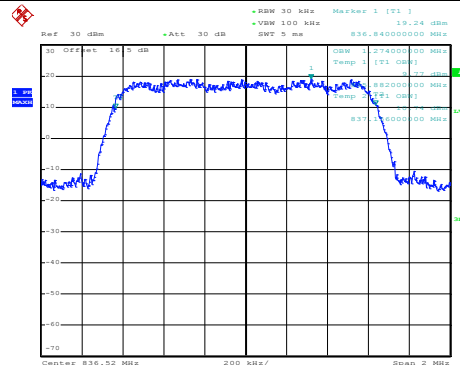
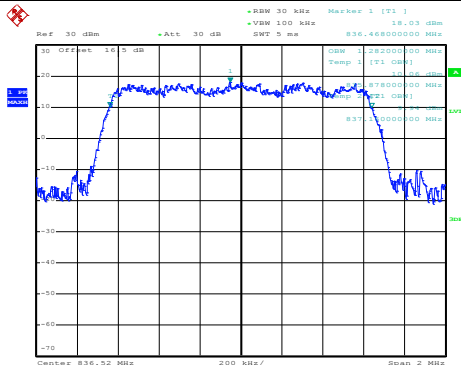


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Date: 11.JUN.2020 21:45:51

Middle Channel

Middle Channel

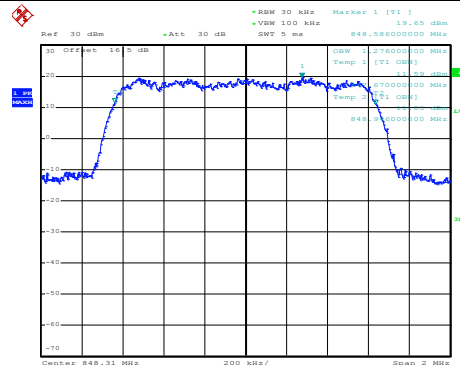
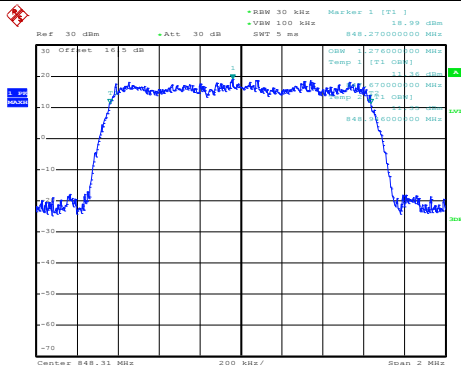


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Date: 11.JUN.2020 21:46:27

Highest Channel

Highest Channel



Date: 11.JUN.2020 21:12:54

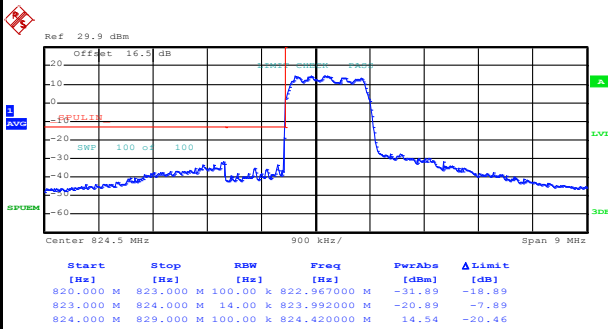
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Conducted Band Edge

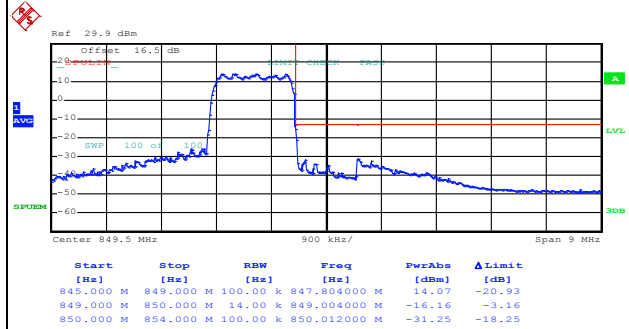
CDMA BC0 (1xRTT)

Lowest Band Edge



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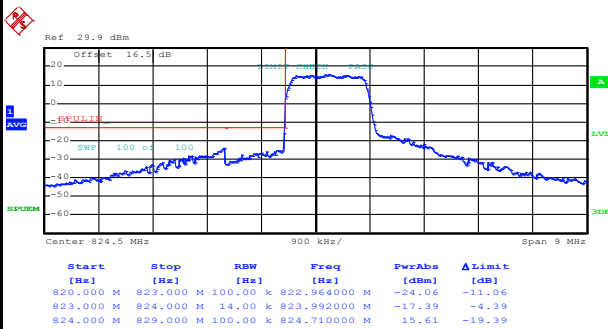
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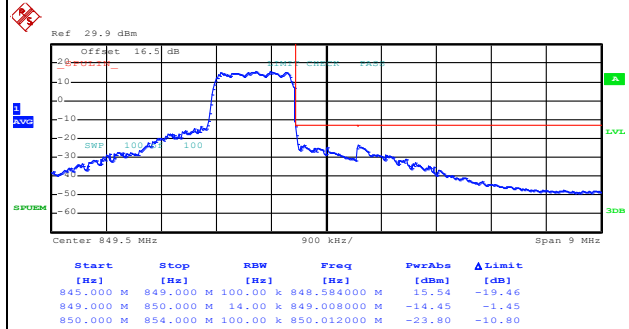
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Lowest Band Edge



Date: 11.JUN.2020 21:49:49

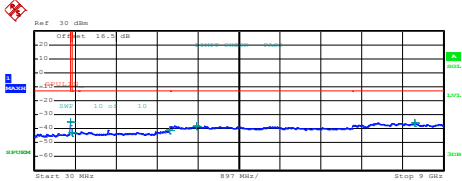
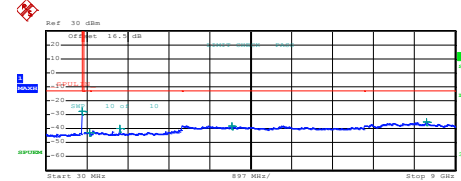
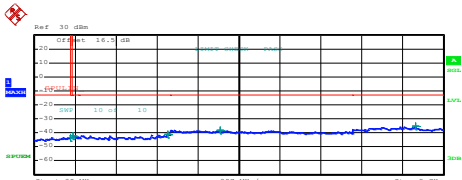
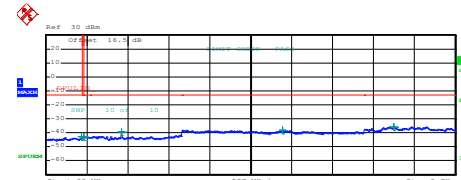
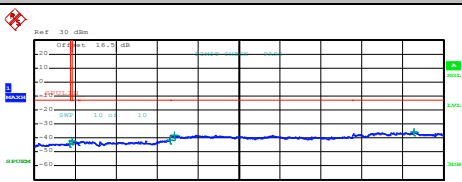
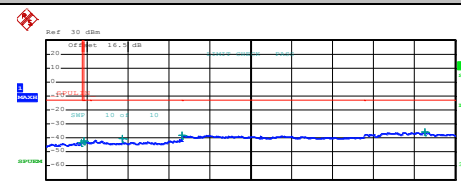
Highest Band Edge



Date: 11.JUN.2020 21:52:38



# Conducted Spurious Emission

CDMA BC0 (1xRTT)	CDMA BC0 (1xEV-DO Rev. 0)																																																																								
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Frequency Stability

Test Conditions	Middle Channel	CDMA BC0 (1xRTT)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0000	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0060	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0072	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0024	
-20	Normal Voltage	0.0036	
-30	Normal Voltage	0.0610	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0000	

Test Conditions	Middle Channel	CDMA BC0 (1xEV-DO Rev. 0)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0000	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0036	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0406	
-20	Normal Voltage	0.0394	
-30	Normal Voltage	0.0418	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0000	

Note:

1. Normal Voltage = 4.0V ; Battery End Point (BEP) = 3.5 V ; Maximum Voltage =4.45 V
2. The frequency fundamental emissions stay within the authorized frequency block.



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

### ERP/EIRP

#### <PT Antenna>

Channel	Mode	Conducted		ERP	
		Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	GSM850	32.33	1.7100	25.48	0.3532
Middle	GPRS class 8	32.43	1.7498	25.58	0.3614
Highest	(GT - LC = -4.7 dB)	32.47	1.7660	25.62	0.3648
Lowest	GSM850	25.60	0.3631	18.75	0.0750
Middle	EDGE class 8	25.73	0.3741	18.88	0.0773
Highest	(GT - LC = -4.7 dB)	25.69	0.3707	18.84	0.0766
Lowest	WCDMA Band V	22.95	0.1972	16.10	0.0407
Middle	RMC 12.2Kbps	23.06	0.2023	16.21	0.0418
Highest	(GT - LC = -4.7 dB)	22.96	0.1977	16.11	0.0408
Lowest	CDMA BC0	23.73	0.2360	16.88	0.0488
Middle	1xRTT	24.00	0.2512	17.15	0.0519
Highest	(GT - LC = -4.7 dB)	23.90	0.2455	17.05	0.0507
Lowest	CDMA BC0	23.77	0.2382	16.92	0.0492
Middle	1xEV-DO	24.00	0.2512	17.15	0.0519
Highest	(GT - LC = -4.7 dB)	23.94	0.2477	17.09	0.0512
Limit	ERP < 7W	Result		PASS	

Channel	Mode	Conducted		EIRP	
		Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	GSM1900	29.70	0.9333	27.70	0.5888
Middle	GPRS class 8	29.63	0.9183	27.63	0.5794
Highest	(GT - LC = -2 dB)	29.41	0.8730	27.41	0.5508
Lowest	GSM1900	24.67	0.2931	22.67	0.1849
Middle	EDGE class 8	24.68	0.2938	22.68	0.1854
Highest	(GT - LC = -2 dB)	24.75	0.2985	22.75	0.1884
Lowest	WCDMA Band II	23.23	0.2104	21.23	0.1327
Middle	RMC 12.2Kbps	22.95	0.1972	20.95	0.1245
Highest	(GT - LC = -2 dB)	23.03	0.2009	21.03	0.1268
Limit	EIRP < 2W	Result		PASS	

Channel	Mode	Conducted		EIRP	
		Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	WCDMA Band IV	23.10	0.2042	21.20	0.1318
Middle	RMC 12.2Kbps	23.12	0.2051	21.22	0.1324
Highest	(GT - LC = -1.9 dB)	23.06	0.2023	21.16	0.1306
Limit	EIRP < 1W	Result		PASS	



**Radiated Spurious Emission**

<Close Mode>

<PT Antenna>

<Ant. 1>

**GPRS 850**

GPRS 850									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-50.46	-13	-37.46	-61	-57.41	0.53	9.63	H
	2472	-59.89	-13	-46.89	-73.84	-67.87	0.65	10.78	H
	3296	-58.02	-13	-45.02	-74.71	-67.1	0.76	11.99	H
									H
									H
									H
	1648	-49.15	-13	-36.15	-59.39	-56.1	0.53	9.63	V
	2472	-59.26	-13	-46.26	-73.74	-67.24	0.65	10.78	V
	3296	-58.26	-13	-45.26	-74.92	-67.34	0.76	11.99	V
									V
									V
									V
Middle	1672	-51.82	-13	-38.82	-62.48	-58.82	0.53	9.68	H
	2510	-60.07	-13	-47.07	-74.04	-68.07	0.66	10.81	H
	3344	-58.07	-13	-45.07	-74.84	-67.29	0.76	12.13	H
									H
									H
									H
	1672	-49.55	-13	-36.55	-59.81	-56.55	0.53	9.68	V
	2510	-59.12	-13	-46.12	-73.49	-67.12	0.66	10.81	V
	3344	-58.41	-13	-45.41	-74.97	-67.63	0.76	12.13	V
									V
									V
									V



Highest	1696	-53.47	-13	-40.47	-64.4	-60.52	0.53	9.73	H
	2544	-59.91	-13	-46.91	-73.95	-67.92	0.67	10.83	H
	3392	-58.20	-13	-45.20	-75.09	-67.56	0.77	12.28	H
									H
									H
									H
									H
	1696	-51.02	-13	-38.02	-61.31	-58.07	0.53	9.73	V
	2544	-59.79	-13	-46.79	-74.2	-67.8	0.67	10.83	V
	3392	-58.29	-13	-45.29	-74.75	-67.65	0.77	12.28	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	-42.68	-13	-29.68	-53.22	-49.63	0.53	9.63	H
	2472	-40.12	-13	-27.12	-74.07	-48.1	0.65	10.78	H
	3296	-58.03	-13	-45.03	-74.72	-67.11	0.76	11.99	H
									H
									H
									H
									H
	1648	-43.37	-13	-30.37	-53.61	-50.32	0.53	9.63	V
	2472	-61.42	-13	-48.42	-73.9	-69.4	0.65	10.78	V
	3296	-58.21	-13	-45.21	-74.87	-67.29	0.76	11.99	V
									V
									V
									V
									V
	1672	-42.54	-13	-29.54	-53.2	-49.54	0.53	9.68	H
	2510	-60.08	-13	-47.08	-74.05	-68.08	0.66	10.81	H
	3344	-58.01	-13	-45.01	-74.78	-67.23	0.76	12.13	H
									H
									H
									H
									H
	1672	-47.45	-13	-34.45	-57.71	-54.45	0.53	9.68	V
	2510	-59.72	-13	-46.72	-74.09	-67.72	0.66	10.81	V
	3344	-58.26	-13	-45.26	-74.82	-67.48	0.76	12.13	V
									V
									V
									V
									V



Highest	1696	-43.38	-13	-30.38	-54.31	-50.43	0.53	9.73	H
	2544	-59.68	-13	-46.68	-73.72	-67.69	0.67	10.83	H
	3392	-57.97	-13	-44.97	-74.86	-67.33	0.77	12.28	H
									H
									H
									H
									H
	1696	-53.10	-13	-40.10	-63.39	-60.15	0.53	9.73	V
	2544	-59.72	-13	-46.72	-74.13	-67.73	0.67	10.83	V
	3392	-58.59	-13	-45.59	-75.05	-67.95	0.77	12.28	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	1662	-62.54	-13	-49.54	-73.21	-69.52	0.53	9.66	H
	2499	-60.01	-13	-47.01	-73.94	-68	0.65	10.80	H
	3335	-57.97	-13	-44.97	-74.74	-67.16	0.76	12.11	H
									H
									H
									H
									H
	1652	-62.98	-13	-49.98	-73.23	-69.94	0.53	9.63	V
	2479	-59.51	-13	-46.51	-73.86	-67.49	0.65	10.78	V
	3305	-57.93	-13	-44.93	-74.51	-67.04	0.76	12.02	V
									V
									V
									V
									V
Middle	1672	-62.38	-13	-49.38	-73.04	-69.38	0.53	9.68	H
	2509	-60.19	-13	-47.19	-74.16	-68.19	0.66	10.81	H
	3345	-58.17	-13	-45.17	-74.97	-67.39	0.76	12.14	H
									H
									H
									H
									H
	1672	-62.76	-13	-49.76	-73.02	-69.76	0.53	9.68	V
	2509	-59.75	-13	-46.75	-74.12	-67.75	0.66	10.81	V
	3345	-58.11	-13	-45.11	-74.66	-67.33	0.76	12.14	V
									V
									V
									V
									V



Highest	1693	-62.20	-13	-49.20	-73.12	-69.24	0.53	9.72	H
	2539	-59.98	-13	-46.98	-74.02	-67.99	0.67	10.82	H
	3386	-58.43	-13	-45.43	-75.31	-67.77	0.77	12.26	H
									H
									H
									H
									H
	1693	-62.71	-13	-49.71	-72.99	-69.75	0.53	9.72	V
	2539	-59.58	-13	-46.58	-73.99	-67.59	0.67	10.82	V
	3386	-58.38	-13	-45.38	-74.84	-67.72	0.77	12.26	V
									V
									V
									V
									V

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



**CDMA BC0(1xRTT)**

CDMA BC0(1xRTT)									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1649	-64.85	-13	-51.85	-75.39	-71.8	0.53	9.63	H
	2474	-62.34	-13	-49.34	-76.29	-70.32	0.65	10.78	H
	3298	-57.44	-13	-44.44	-74.13	-66.53	0.76	11.99	H
									H
									H
									H
									H
	1649	-65.25	-13	-52.25	-75.49	-72.2	0.53	9.63	V
	2474	-61.62	-13	-48.62	-76.09	-69.6	0.65	10.78	V
	3298	-57.61	-13	-44.61	-74.27	-66.7	0.76	11.99	V
									V
									V
									V
									V
Middle	1672	-64.52	-13	-51.52	-75.18	-71.52	0.53	9.68	H
	2509	-61.55	-13	-48.55	-75.52	-69.55	0.66	10.81	H
	3345	-57.40	-13	-44.40	-74.2	-66.62	0.76	12.14	H
									H
									H
									H
									H
	1672	-64.93	-13	-51.93	-75.19	-71.93	0.53	9.68	V
	2509	-60.96	-13	-47.96	-75.33	-68.96	0.66	10.81	V
	3345	-57.91	-13	-44.91	-74.46	-67.13	0.76	12.14	V
									V
									V
									V
									V



Highest	1696	-64.14	-13	-51.14	-75.07	-71.19	0.53	9.73	H
	2544	-60.05	-13	-47.05	-74.09	-68.06	0.67	10.83	H
	3393	-57.65	-13	-44.65	-74.54	-67.01	0.77	12.28	H
									H
									H
									H
									H
	1696	-64.54	-13	-51.54	-74.83	-71.59	0.53	9.73	V
	2544	-60.36	-13	-47.36	-74.77	-68.37	0.67	10.83	V
	3393	-58.17	-13	-45.17	-74.63	-67.53	0.77	12.28	V
									V
									V
									V
									V

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



**CDMA BC0(EVDO)**

CDMA BC0(EVDO)									
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	-65.31	-13	-52.31	-75.85	-72.26	0.53	9.63	H
	2474	-62.07	-13	-49.07	-76.02	-70.05	0.65	10.78	H
	3298	-57.61	-13	-44.61	-74.3	-66.7	0.76	11.99	H
									H
									H
									H
									H
	1649	-65.21	-13	-52.21	-75.45	-72.16	0.53	9.63	V
	2474	-61.64	-13	-48.64	-76.11	-69.62	0.65	10.78	V
	3298	-57.56	-13	-44.56	-74.22	-66.65	0.76	11.99	V
									V
									V
									V
									V
Middle	1672	-64.44	-13	-51.44	-75.1	-71.44	0.53	9.68	H
	2509	-61.59	-13	-48.59	-75.56	-69.59	0.66	10.81	H
	3345	-57.82	-13	-44.82	-74.59	-67.04	0.76	12.14	H
									H
									H
									H
									H
	1672	-65.02	-13	-52.02	-75.28	-72.02	0.53	9.68	V
	2509	-61.26	-13	-48.26	-75.63	-69.26	0.66	10.81	V
	3345	-57.99	-13	-44.99	-74.54	-67.21	0.76	12.14	V
									V
									V
									V
									V



Highest	1696	-64.28	-13	-51.28	-75.21	-71.33	0.53	9.73	H
	2544	-60.76	-13	-47.76	-74.8	-68.77	0.67	10.83	H
	3393	-57.75	-13	-44.75	-74.64	-67.11	0.77	12.28	H
									H
									H
									H
									H
	1696	-65.06	-13	-52.06	-75.35	-72.11	0.53	9.73	V
	2544	-60.54	-13	-47.54	-74.95	-68.55	0.67	10.83	V
	3393	-58.19	-13	-45.19	-74.65	-67.55	0.77	12.28	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	-57.11	-13	-44.11	-74.51	-68.9	0.73	12.52	H
	5550	-54.11	-13	-41.11	-76.49	-66.28	1.00	13.17	H
	7400	-51.56	-13	-38.56	-77.1	-60.96	1.18	10.58	H
									H
									H
									H
									H
	3700	-56.08	-13	-43.08	-74.68	-67.87	0.73	12.52	V
	5550	-54.10	-13	-41.10	-76.57	-66.27	1.00	13.17	V
	7400	-52.44	-13	-39.44	-77.77	-61.84	1.18	10.58	V
									V
									V
									V
									V
Middle	3760	-56.62	-13	-43.62	-74.18	-68.43	0.69	12.50	H
	5640	-52.48	-13	-39.48	-74.81	-64.61	0.98	13.12	H
	7520	-51.76	-13	-38.76	-77.18	-61.04	1.18	10.46	H
									H
									H
									H
									H
	3760	-55.37	-13	-42.37	-74.13	-67.18	0.69	12.50	V
	5640	-51.97	-13	-38.97	-74.48	-64.1	0.98	13.12	V
	7520	-52.20	-13	-39.20	-77.67	-61.48	1.18	10.46	V
									V
									V
									V
									V



Highest	3820	-57.33	-13	-44.33	-75.01	-69.11	0.69	12.47	H
	5730	-54.46	-13	-41.46	-76.86	-66.53	0.99	13.06	H
	7640	-51.31	-13	-38.31	-77	-60.92	1.18	10.79	H
									H
									H
									H
									H
	3820	-55.63	-13	-42.63	-74.53	-67.41	0.69	12.47	V
	5730	-54.46	-13	-41.46	-77.07	-66.53	0.99	13.06	V
	7640	-51.77	-13	-38.77	-77.23	-61.38	1.18	10.79	V
									V
									V
									V
									V

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



**EDGE 1900**

EDGE 1900									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-57.43	-13	-44.43	-74.83	-69.22	0.73	12.52	H
	5550	-54.15	-13	-41.15	-76.52	-66.32	1.00	13.17	H
	7400	-52.41	-13	-39.41	-77.95	-61.81	1.18	10.58	H
									H
									H
									H
									H
	3700	-55.90	-13	-42.90	-74.5	-67.69	0.73	12.52	V
	5550	-53.93	-13	-40.93	-76.39	-66.1	1.00	13.17	V
	7400	-52.70	-13	-39.70	-78.03	-62.1	1.18	10.58	V
									V
									V
									V
									V
Middle	3760	-56.83	-13	-43.83	-74.39	-68.64	0.69	12.50	H
	5640	-54.06	-13	-41.06	-76.39	-66.19	0.98	13.12	H
	7520	-51.97	-13	-38.97	-77.39	-61.25	1.18	10.46	H
									H
									H
									H
									H
	3760	-55.20	-13	-42.20	-73.96	-67.01	0.69	12.50	V
	5640	-53.92	-13	-40.92	-76.43	-66.05	0.98	13.12	V
	7520	-52.07	-13	-39.07	-77.54	-61.35	1.18	10.46	V
									V
									V
									V
									V



Highest	3820	-57.24	-13	-44.24	-74.92	-69.02	0.69	12.47	H
	5730	-54.76	-13	-41.76	-77.16	-66.83	0.99	13.06	H
	7640	-51.26	-13	-38.26	-76.95	-60.87	1.18	10.79	H
									H
									H
									H
									H
	3820	-56.20	-13	-43.20	-75.1	-67.98	0.69	12.47	V
	5730	-54.21	-13	-41.21	-76.82	-66.28	0.99	13.06	V
	7640	-51.78	-13	-38.78	-77.24	-61.39	1.18	10.79	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	3705	-56.67	-13	-43.67	-74.12	-68.46	0.72	12.52	H
	5557	-54.23	-13	-41.23	-76.58	-66.4	1.00	13.17	H
	7410	-52.41	-13	-39.41	-77.92	-61.79	1.18	10.56	H
									H
									H
									H
									H
	3705	-55.26	-13	-42.26	-73.87	-67.05	0.72	12.52	V
	5557	-54.30	-13	-41.30	-76.77	-66.47	1.00	13.17	V
	7410	-52.37	-13	-39.37	-77.72	-61.75	1.18	10.56	V
									V
									V
									V
									V
Middle	3760	-56.71	-13	-43.71	-74.27	-68.52	0.69	12.50	H
	5640	-54.17	-13	-41.17	-76.5	-66.3	0.98	13.12	H
	7520	-51.87	-13	-38.87	-77.29	-61.15	1.18	10.46	H
									H
									H
									H
									H
	3760	-55.68	-13	-42.68	-74.44	-67.49	0.69	12.50	V
	5640	-53.96	-13	-40.96	-76.47	-66.09	0.98	13.12	V
	7520	-51.75	-13	-38.75	-77.22	-61.03	1.18	10.46	V
									V
									V
									V
									V



Highest	3816	-56.54	-13	-43.54	-74.22	-68.33	0.69	12.47	H
	5723	-54.08	-13	-41.08	-76.49	-66.15	0.99	13.07	H
	7630	-51.33	-13	-38.33	-77.02	-60.91	1.18	10.76	H
									H
									H
									H
									H
	3816	-55.80	-13	-42.80	-74.69	-67.59	0.69	12.47	V
	5723	-53.86	-13	-40.86	-76.47	-65.93	0.99	13.07	V
	7630	-51.49	-13	-38.49	-76.91	-61.07	1.18	10.76	V
									V
									V
									V
									V

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



**WCDMA 1700**

WCDMA 1700									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3424	-57.03	-13	-44.03	-74.63	-68.63	0.77	12.37	H
	5137	-55.95	-13	-42.95	-76.94	-67.45	0.97	12.47	H
	6849	-53.11	-13	-40.11	-77.08	-63.92	0.83	11.63	H
									H
									H
									H
									H
	3424	-57.38	-13	-44.38	-74.86	-68.98	0.77	12.37	V
	5137	-55.80	-13	-42.80	-76.98	-67.3	0.97	12.47	V
	6849	-52.93	-13	-39.93	-77.39	-63.74	0.83	11.63	V
									V
									V
									V
									V
Middle	3465	-57.33	-13	-44.33	-74.95	-69.05	0.78	12.50	H
	5197	-56.07	-13	-43.07	-77.24	-67.67	0.99	12.59	H
	6930	-52.73	-13	-39.73	-76.91	-63.18	1.01	11.45	H
									H
									H
									H
									H
	3465	-57.10	-13	-44.10	-75.19	-68.82	0.78	12.50	V
	5197	-54.91	-13	-41.91	-76.24	-66.51	0.99	12.59	V
	6930	-52.69	-13	-39.69	-77.25	-63.14	1.01	11.45	V
									V
									V
									V
									V



Highest	3505	-57.54	-13	-44.54	-75.17	-69.36	0.78	12.60	H
	5257	-56.22	-13	-43.22	-77.55	-67.92	1.01	12.71	H
	7010	-51.91	-13	-38.91	-76.27	-62.03	1.17	11.28	H
									H
									H
									H
									H
	3505	-56.49	-13	-43.49	-75.08	-68.31	0.78	12.60	V
	5257	-56.59	-13	-43.59	-78.07	-68.29	1.01	12.71	V
	7010	-51.97	-13	-38.97	-76.67	-62.09	1.17	11.28	V
									V
									V
									V
									V

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

————THE END————