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# RADIO TEST REPORT

Report No: STS2004277W01

Issued for

4G NET INC

3000 NW 72 AVENUE MIAMI FL 33122

<b>Product Name:</b>	Mobile phone
<b>Brand Name:</b>	UNIQCELL, UNIQ
<b>Model Name:</b>	Q5.5
<b>Series Model:</b>	Q5.5 PRO
<b>FCC ID:</b>	2AWCN-Q55
<b>Test Standard:</b>	FCC Part 22H and 24E

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TEST RESULT CERTIFICATION

Applicant's Name .....: 4G NET INC
Address.....: 3000 NW 72 AVENUE MIAMI FL 33122
Manufacture's Name .....: METELL TECHNOLOGY CO.,LIMITED
Address.....: FLAT 1506.15/F LUCKY CTR NO 165-171 WAN CHAI RD WAN CHAI HONG KONG

Product Description

Product Name .....: Mobile phone
Brand Name .....: UNIQCELL, UNIQ
Model Name.....: Q5.5
SeriesModel .....: Q5.5 PRO
Test Standards .....: FCC Part 22H and 24E
Test Procedure .....: KDB 971168 D01 v03r01,ANSI C63.26( 2015)

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
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Date of Test.....:
Date of receipt of test item .....: 24 Mar. 2020
Date (s) of performance of tests : 24 Mar. 2020 ~ 09 May 2020
Date of Issue .....: 12 May 2020
Test Result .....: Pass

Testing Engineer : [Signature]
(ChrisChen)

Technical Manager : [Signature]
(Sunday Hu)

Authorized Signatory : [Signature]
(Vita Li)





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### Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	12 May 2020	STS2004277W01	ALL	Initial Issue





## SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

The radiated emission testing was performed according to the procedures of KDB 971168 D01 v03r01 and ANSI C63.26( 2015)

FCC Rules	Test Description	Test Limit	Test Result	Reference
2.1046	Conducted Output Power	Reporting Only	PASS	
22.913d 24.232d	Peak-to-Average Ratio	< 13 dB	PASS	
2.1046 22.913 24.232	Effective Radiated Power/Equivalent Isotropic Radiated Power	< 7 Watts max. ERP(Part 22) < 2 Watts max. EIRP(Part 24)	PASS	
2.1049 22.917 24.238	Occupied Bandwidth	Reporting Only	PASS	
2.1055 22.355 24.235	Frequency Stability	< 2.5 ppm (Part 22) Emission must remain in band (Part 24)	PASS	
2.1051 22.917 24.238	Spurious Emission at Antenna Terminals	< 43+10log <sub>10</sub> (P[Watts])	PASS	
2.1053 22.917 24.238	Field Strength of Spurious Radiation	< 43+10log <sub>10</sub> (P[Watts])	PASS	
2.1051 22.917 24.238	Band Edge	< 43+10log <sub>10</sub> (P[Watts])	PASS	



## 1 INTRODUCTION

### 1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

### 1.2 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of  $k = 2$  to indicate a 95% level of confidence. The measurement data shown herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.68$ dB
2	Unwanted Emissions, conducted	$\pm 2.988$ dB
3	All emissions, radiated 30-1GHz	$\pm 6.7$ dB
4	All emissions, radiated 1G-6GHz	$\pm 5.5$ dB
5	All emissions, radiated >6G	$\pm 5.8$ dB
6	Conducted Emission (9KHz-150KHz)	$\pm 4.43$ dB
7	Conducted Emission (150KHz-30MHz)	$\pm 5$ dB



## 2PRODUCT INFORMATION

ProductName	Mobile phone
Trade Name	UNIQCELL, UNIQ
Model Name	Q5.5
Series Model	Q5.5 PRO
Model Difference	Only different in model name, brand name, cameras and memory.
Tx Frequency:	GSM/GPRS/EDGE: 850: 824 MHz ~ 849MHz 1900: 1850 MHz ~ 1910MHz WCDMA: Band V: 824 MHz ~ 849 MHz Band II: 1850 MHz ~ 1910 MHz
Rx Frequency:	GSM/GPRS/EDGE: 850: 869 MHz ~ 894 MHz 1900: 1930 MHz ~ 1990MHz WCDMA: Band V: 869 MHz ~ 894 MHz Band II: 1930 MHz ~ 1990 MHz
Max RF Output Power:	GSM850:30.77dBm, PCS1900:27.55dBm GPRS850(1-Slot):30.67dBm, GPRS1900(1-Slot):27.61dBm GPRS850(2-Slot):30.20dBm, GPRS1900(2-Slot):27.21dBm GPRS850(3-Slot):29.72dBm, GPRS1900(3-Slot):26.77dBm GPRS850(4-Slot):29.26dBm, GPRS1900(4-Slot):26.37dBm EDGE 850(1-Slot):25.14dBm, EDGE 1900(1-Slot):25.10dBm EDGE 850(2-Slot):24.37dBm, EDGE 1900(2-Slot):24.32dBm EDGE 850(3-Slot):23.63dBm, EDGE 1900(3-Slot):23.54dBm EDGE 850(4-Slot):22.86dBm, EDGE 1900(4-Slot):22.81dBm WCDMA Band II:22.12dBm, WCDMA Band V:21.74dBm
Type of Emission:	GSM(850): 316KGXW; PCS(1900): 314KGXW GPRS(850): 322KGXW; GPRS(1900): 324KGXW EDGE(850): 318KG7W; EDGE(1900): 317KG7W WCDMA850: 4M69F9W; WCDMA1900: 4M66F9W
Modulation Characteristics:	GMSK for GSM/GPRS; GMSK for EDGE WCDMA: QPSK; HSDPA:QPSK/16QAM; HSUPA:BPSK
SIM Card:	SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested.
Antenna:	PIFA
Antenna gain:	GSM 850: 1.67dBi ,PCS 1900:1.96dBi WCDMA 850: 1.66dBi, WCDMA1900:1.92dBi
Battery parameter:	Rated Voltage: 3.7V Charge Limit: 4.2V Capacity: 3250mAh
Adapter:	Input: AC 100-240V 0.15A, 50/60Hz Output: DC 5V/1000mA
GPRS/EDGE Class:	Multi-Class12
Extreme Vol. Limits:	DC 3.4V~ DC 4.2V(Normal: DC 3.7V)
Extreme Temp. Tolerance:	-30°C to +50°C



Hardware version number:	V4.0
Software version number:	UNIQ_CELL_1+16_Q5.5_C8E_2M_20200328-1
<p><b>** Note: The High Voltage 4.2V and Low Voltage 3.4V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.</b></p>	

RF Function	Band	Mode	Modulation	Power Class	Ant Gain(dBi)	Ant Type	SIM Card
GSM	850	GSM	GMSK	4 (power control level 5)	GSM850: 1.67dbi	PIFA	2 SIM 1 is used to tested.
		GPRS	GMSK	4			
		EDGE	GMSK	E2			
	1900	GSM	GMSK	1 (power control level 0)	GSM1900: 1.96dbi		
		GPRS	GMSK	1			
		EDGE	GMSK	E2			

RF Function	Band	Mode	Modulation	Power Class	Ant Gain(dBi)	Ant Type	SIM Card
WCDMA	2/5	WCDMA	GMSK	3	WCDMA850: 1.66dbi WCDMA1900: 1.92dbi	PIFA	2 SIM 1 is used to tested.
		HSDPA	QPSK、 16QAM				
		HSUPA	BPSK				





### 3 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 and ANSI C63.262015 PowerMeas. License Digital Systems with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.
2. 30 MHz to 10th harmonic 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:

BAND	TEST MODES	
	RADIATED TCS	CONDUCTED TCS
GSM 850	GSM LINK	GSM LINK
	GPRS/EDGE CLASS 12 LINK	GPRS/EDGE CLASS 12 LINK
GSM 1900	GSM LINK	GSM LINK
	GPRS/EDGE CLASS 12 LINK	GPRS/EDGE CLASS 12 LINK
WCDMA BAND V	RMC 12.2KBPS LINK	RMC 12.2KBPS LINK
WCDMA BAND II	RMC 12.2KBPS LINK	RMC 12.2KBPS LINK



4 MEASUREMENT INSTRUMENTS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2019.07.29	2020.07.28
Signal Analyzer	Agilent	N9020A	MY51110105	2020.03.05	2021.03.04
Wireless Communications Test Set	R&S	CMW 500	133884	2020.03.05	2021.03.04
Bilog Antenna	TESEQ	CBL6111D	34678	2018.03.11	2021.03.10
Horn Antenna	SCHWARZBECK	BBHA 9120D(1201)	9120D-1343	2018.10.19	2021.10.18
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2018.03.11	2021.03.10
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2019.10.09	2020.10.08
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2019.10.12	2020.10.11
Pre-Amplifier (18G-40G)	SKET	LNPA_1840-50	SK2018101801	2019.10.22	2020.10.21
Turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
Temperature & Humidity	HH660	Mieo	N/A	2019.10.12	2020.10.11
Test SW	BULUN	BL410-E/18.905			

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Universal Radio communication tester	R&S	CMU200	11764	2019.10.11	2020.10.10
Wireless Communications Test Set	R&S	CMW 500	133884	2020.03.05	2021.03.04
Signal Analyzer	Agilent	N9020A	MY49100060	2019.10.09	2020.10.08
Temperature & Humidity	HH660	Mieo	N/A	2019.10.12	2020.10.11
Test SW	FARAD	LZ-RF /LzRf-3A3			

Equipment with a calibration date of "NCR" shown in this list was not used to make direct calibrated measurements.



## 5 TEST ITEMS

### 5.1 CONDUCTED OUTPUT POWER

#### Test overview

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.

#### Test procedures

1. The transmitter output port was connected to the system simulator.
2. Set eut at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

#### Test setup





## 5.2 PEAK TO AVERAGE RATIO

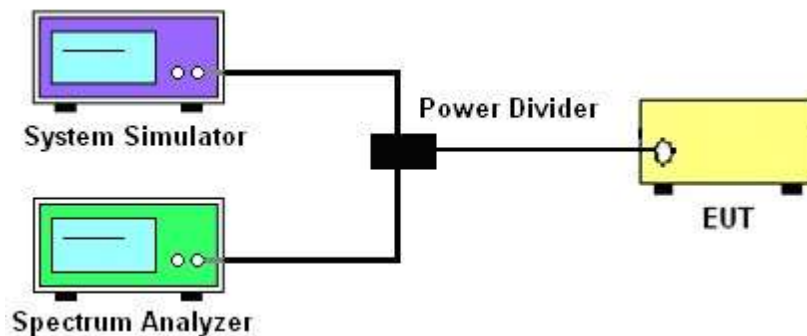
### TEST OVERVIEW

According to §24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 db.

### TEST PROCEDURES

1. The testing follows fckdb 971168 v03r01 section
2. The eut was connected to the and peak and av system simulator& spectrum analysis reads
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure average power of the spectrum analysis

### TEST SETUP





### 5.3 TRANSMITTER RADIATED POWER (EIRP/ERP)

#### TEST OVERVIEW

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26 2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

#### TEST PROCEDURE

1. The testing follows FCC KDB 971168 Section 5.8 and ANSI C63.26-2015 Section 5.2.
2. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.
3. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
4. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
5. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a nonradiating cable. The absolute levels of the spurious emissions were measured by the substitution.
6. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to ANSI C63.26-2015. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna.  
The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP/ERP was calculated with the correction factor,  
$$ERP/EIRP = P.SG + GT - LC$$
  
ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as P<sub>Meas</sub> as, typically dBW or dBm);  
P<sub>Meas</sub>(PK) = measured transmitter output power or PSD, in dBm or dBW;  
GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);  
LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.



## 5.4 OCCUPIED BANDWIDTH

### TEST OVERVIEW

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

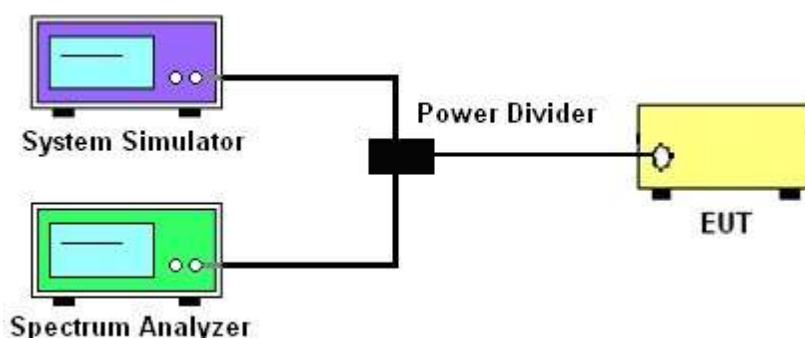
The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth)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

All modes of operation were investigated and the worst case configuration results are reported in this section.

### TEST PROCEDURE

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2.  $RBW = 1 - 5\%$  of the expected OBW
3.  $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

### TEST SETUP





## 5.5 FREQUENCY STABILITY

### Test Overview

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26 2015. The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is varied from  $-30^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  in  $10^{\circ}\text{C}$  increments using an environmental chamber.
- b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5$  ppm) of the center frequency. For Part 24 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

### Test Procedure

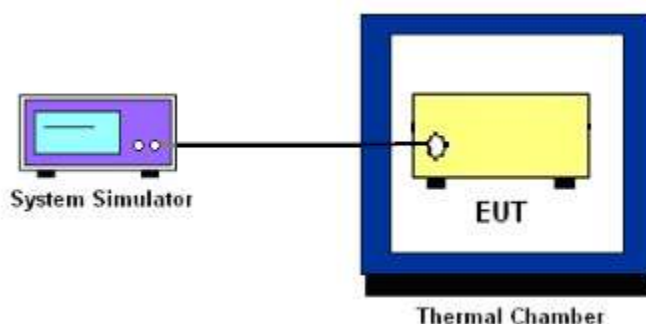
#### Temperature Variation

1. The testing follows fcckdb 971168 D01 section 9.0
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. 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.
4. 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.

#### Voltage Variation

1. The testing follows FCC KDB 971168 D01 Section 9.0.
2. The EUT was placed in a temperature chamber at  $25 \pm 5^{\circ}\text{C}$  and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

### TEST SETUP



## 5.6 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

### Test Overview

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

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

### Test procedure

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0. and ANSI C63.26-2015-Section 5.5
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. 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.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

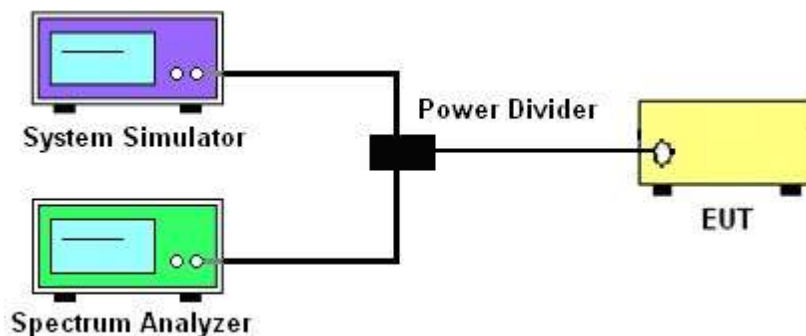
7. The limit line is derived from  $43 + 10 \log (P)$  dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10 \log (P)] \text{ (dB)}$$

$$= [30 + 10 \log (P)] \text{ (dBm)} - [43 + 10 \log (P)] \text{ (dB)}$$

$$= -13 \text{ dBm.}$$

### Test Setup





## 5.7 BAND EDGE

### OVERVIEW

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is  $43 + \log_{10}(P[\text{Watts}])$ , where P is the transmitter power in Watts.

### TEST PROCEDURE

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0. and ANSI C63.26-2015-Section 5.7
2. Start and stop frequency were set such that the band edge would be placed in the center of the Plot.
3. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
4. 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.

5. The band edges of low and high channels for the highest RF powers were measured.

6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

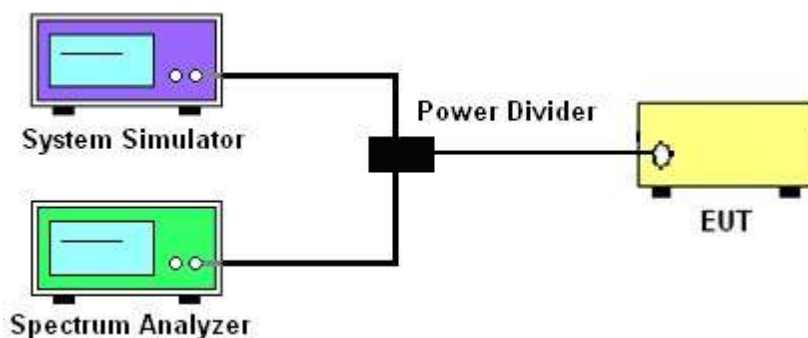
7. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)

$$= P(\text{W}) - [43 + 10\log(P)] (\text{dB})$$

$$= [30 + 10\log(P)] (\text{dBm}) - [43 + 10\log(P)] (\text{dB})$$

$$= -13\text{dBm}.$$

### TEST SETUP





## 5.8 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

### Test overview

Radiated spurious emissions measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized horn antennas. All measurements are performed as peak measurements while the EUT is operating at maximum power and at the appropriate frequencies.

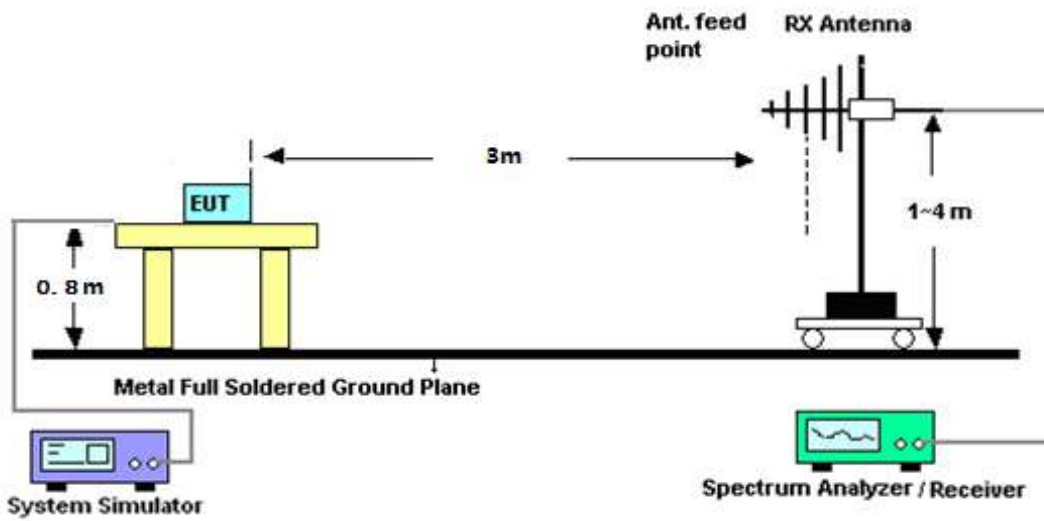
It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

### Test procedure

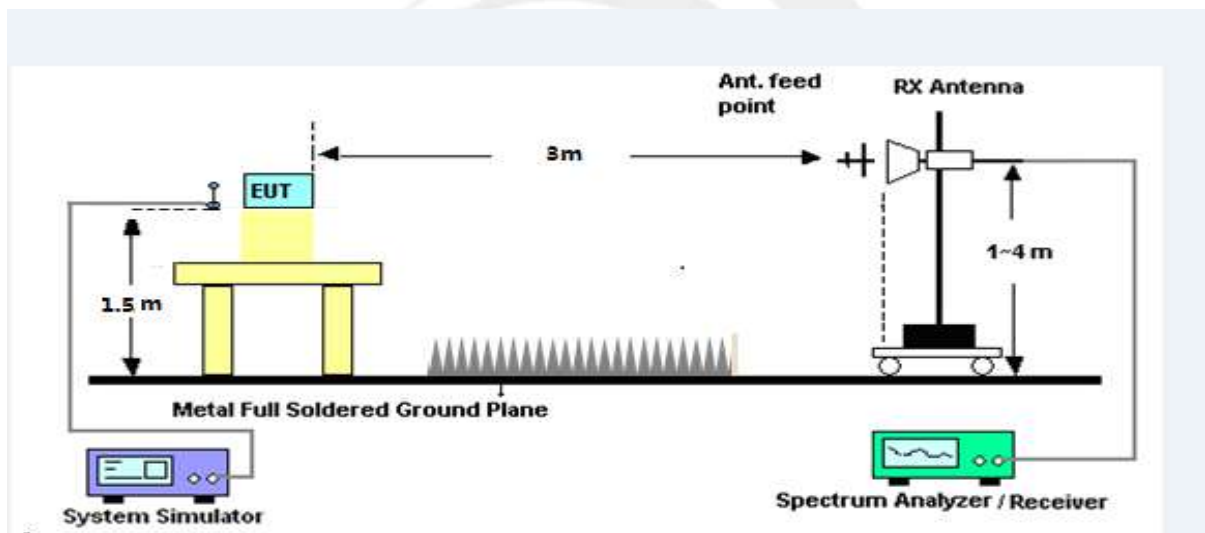
1. The testing FCC KDB 971168 D01 Section 5.8 and ANSI C63.26-2015-Section 5.5.
2. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
3. VBW  $\geq 3 \times$  RBW
4. Span = 1.5 times the OBW
5. No. of sweep points  $> 2 \times$  span/RBW
6. Detector = Peak
7. Trace mode = max hold
8. The trace was allowed to stabilize
9. Effective Isotropic Spurious Radiation was measured by substitution method according to TIA/EIA-603-D. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP/ERP was calculated with the correction factor,  
 $ERP/EIRP = P.SG + GT - LC$   
ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as P<sub>Meas</sub>, typically dBW or dBm);  
P.SG = measured transmitter output power or PSD, in dBm or dBW;  
GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);  
LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

**TEST SETUP**

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



APPENDIX A. TEST RESULT  
A1. CONDUCTED OUTPUT POWER

GSM 850:

GSM 850		
Mode	Frequency (MHz)	AVG Power(dBm)
GSM (GMSK,1-Slot)	824.2	30.77
	836.6	30.67
	848.8	30.61
GPRS (GMSK,1-Slot)	824.2	30.67
	836.6	30.51
	848.8	30.61
GPRS (GMSK,2-Slot)	824.2	30.18
	836.6	30.09
	848.8	30.20
GPRS (GMSK,3-Slot)	824.2	29.72
	836.6	29.66
	848.8	29.71
GPRS (GMSK,4-Slot)	824.2	29.26
	836.6	29.16
	848.8	29.21
EGPRS (GMSK,1-Slot)	824.2	25.14
	836.6	24.80
	848.8	24.50
EGPRS (GMSK,2-Slot)	824.2	24.37
	836.6	24.07
	848.8	23.70
EGPRS (GMSK,3-Slot)	824.2	23.63
	836.6	23.27
	848.8	22.90
EGPRS (GMSK,4-Slot)	824.2	22.86
	836.6	22.48
	848.8	22.19



PCS 1900:

PCS 1900		
Mode	Frequency (MHz)	AVG Power(dBm)
GSM (GMSK,1-Slot)	1850.2	27.55
	1880.0	27.39
	1909.8	27.50
GPRS (GMSK,1-Slot)	1850.2	27.51
	1880.0	27.45
	1909.8	27.61
GPRS (GMSK,2-Slot)	1850.2	27.03
	1880.0	27.01
	1909.8	27.21
GPRS (GMSK,3-Slot)	1850.2	26.60
	1880.0	26.58
	1909.8	26.77
GPRS (GMSK,4-Slot)	1850.2	26.17
	1880.0	26.10
	1909.8	26.37
EGPRS (GMSK,1-Slot)	1850.2	24.65
	1880.0	25.10
	1909.8	24.44
EGPRS (GMSK,2-Slot)	1850.2	23.91
	1880.0	24.32
	1909.8	23.67
EGPRS (GMSK,3-Slot)	1850.2	23.16
	1880.0	23.54
	1909.8	22.96
EGPRS (GMSK,4-Slot)	1850.2	22.39
	1880.0	22.81
	1909.8	22.22



## UMTS BAND V

UMTS BAND V		
Mode	Frequency(MHz)	AVG Power
WCDMA 850 RMC	826.4	21.74
	836.6	20.63
	846.6	21.23
HSDPA Subtest 1	826.4	20.56
	836.6	19.42
	846.6	20.30
HSDPA Subtest 2	826.4	20.08
	836.6	18.97
	846.6	19.82
HSDPA Subtest 3	826.4	19.62
	836.6	18.55
	846.6	19.33
HSDPA Subtest 4	826.4	19.26
	836.6	18.12
	846.6	18.91
HSUPA Subtest 1	826.4	20.58
	836.6	19.47
	846.6	20.28
HSUPA Subtest 2	826.4	19.69
	836.6	18.50
	846.6	19.31
HSUPA Subtest 3	826.4	19.64
	836.6	18.06
	846.6	18.85
HSUPA Subtest 4	826.4	19.17
	836.6	17.60
	846.6	18.53
HSUPA Subtest 5	826.4	17.68
	836.6	16.11
	846.6	17.08



## UMTS BAND II

UMTS BAND II		
Mode	Frequency(MHz)	AVG Power
WCDMA 1900 RMC	1852.4	21.83
	1880	21.38
	1907.6	22.12
HSDPA Subtest 1	1852.4	19.57
	1880	19.16
	1907.6	19.64
HSDPA Subtest 2	1852.4	19.15
	1880	18.70
	1907.6	19.22
HSDPA Subtest 3	1852.4	18.66
	1880	18.29
	1907.6	18.75
HSDPA Subtest 4	1852.4	18.33
	1880	17.83
	1907.6	18.36
HSUPA Subtest 1	1852.4	19.57
	1880	19.29
	1907.6	19.80
HSUPA Subtest 2	1852.4	18.75
	1880	18.35
	1907.6	18.89
HSUPA Subtest 3	1852.4	18.73
	1880	17.86
	1907.6	18.45
HSUPA Subtest 4	1852.4	18.32
	1880	17.50
	1907.6	18.15
HSUPA Subtest 5	1852.4	16.89
	1880	16.04
	1907.6	16.74



A2. PEAK-TO-AVERAGE RADIO

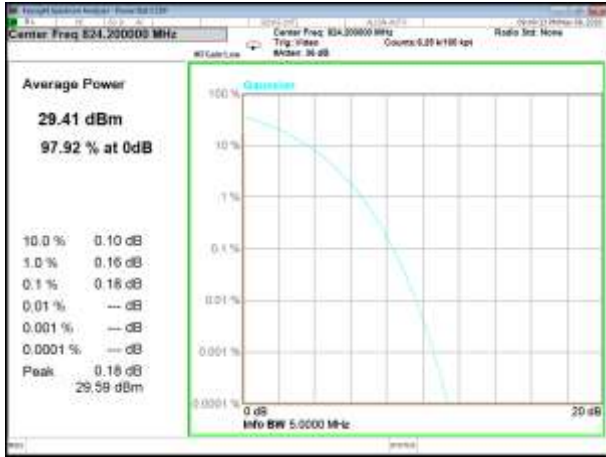
GSM 850		
Mode	Frequency (MHz)	PAR
GSM 850	824.2	0.18
	836.6	0.17
	848.8	0.17
GPRS 850	824.2	0.17
	836.6	0.17
	848.8	0.16
EGPRS 850	824.2	0.09
	836.6	0.10
	848.8	0.10

PCS 1900		
Mode	Frequency (MHz)	PAR
PCS1900	1850.2	0.15
	1880	0.13
	1909.8	0.16
GPRS1900	1850.2	0.15
	1880	0.15
	1909.8	0.13
EGPRS1900	1850.2	0.09
	1880	0.10
	1909.8	0.10

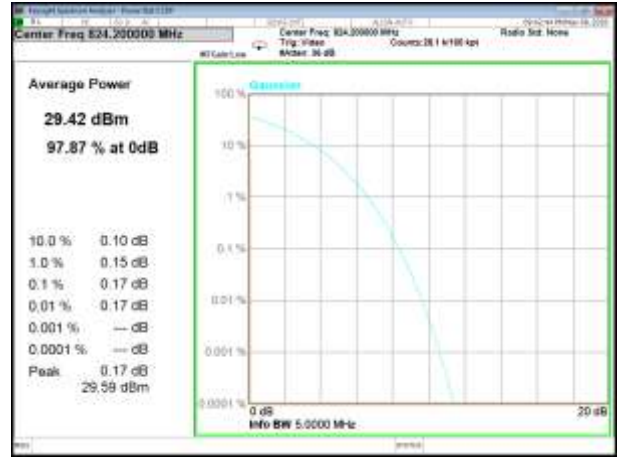
UMTS Band II		
Mode	Frequency (MHz)	PAR
WCDMA 1900 RMC	1852.4	2.43
	1880	2.72
	1907.6	2.81
HSDPA 1900	1852.4	3.14
	1880	3.20
	1907.6	3.24
HSUPA 1900	1852.4	3.20
	1880	3.14
	1907.6	3.53

UMTS Band V		
Mode	Frequency (MHz)	PAR
WCDMA 850 RMC	826.4	3.05
	836.6	2.91
	846.6	3.05
HSDPA 850	826.4	3.47
	836.6	3.76
	846.6	3.50
HSUPA 850	826.4	3.30
	836.6	3.77
	846.6	3.39

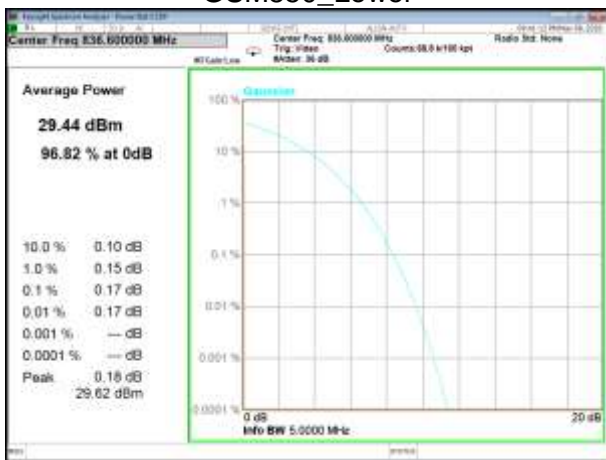




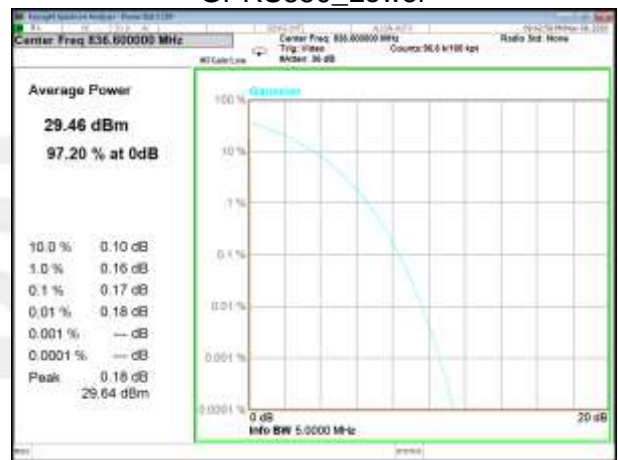
GSM850\_Lower



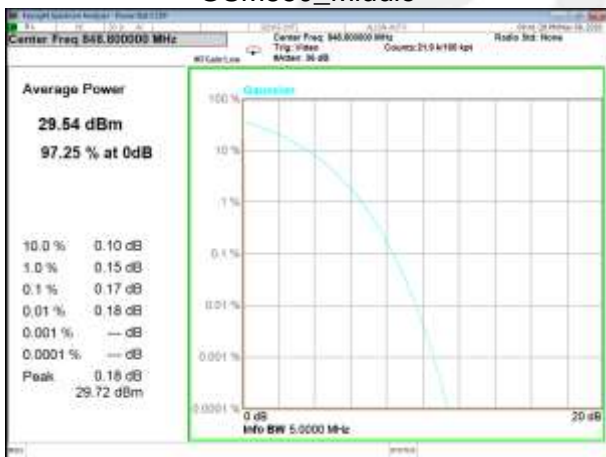
GPRS850\_Lower



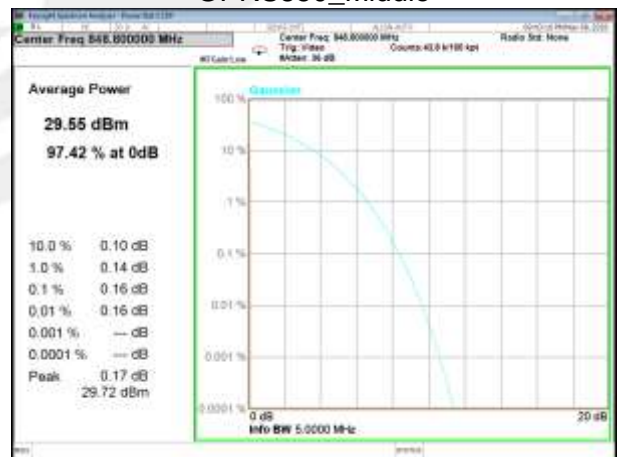
GSM850\_Middle



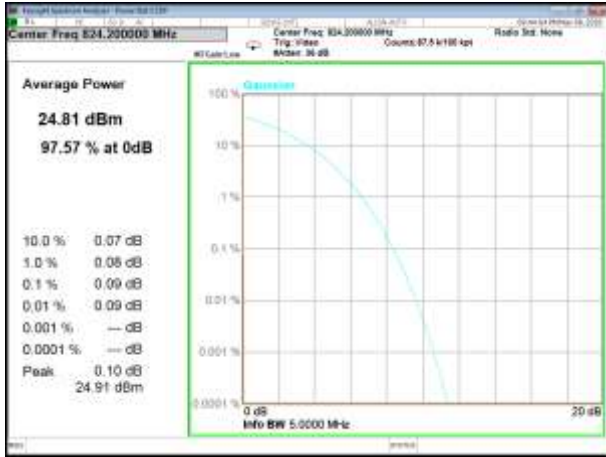
GPRS850\_Middle



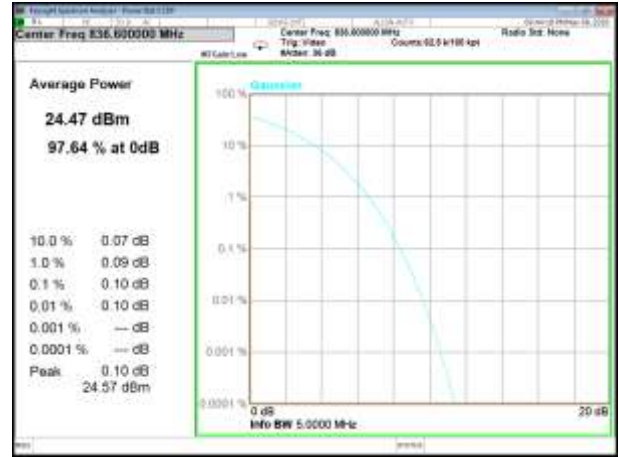
GSM850\_Higher



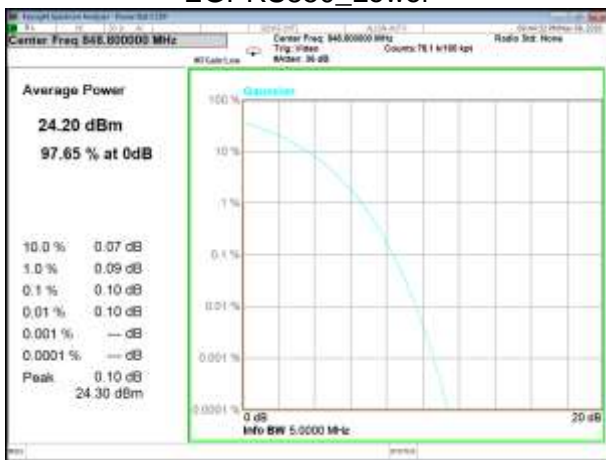
GPRS850\_Higher



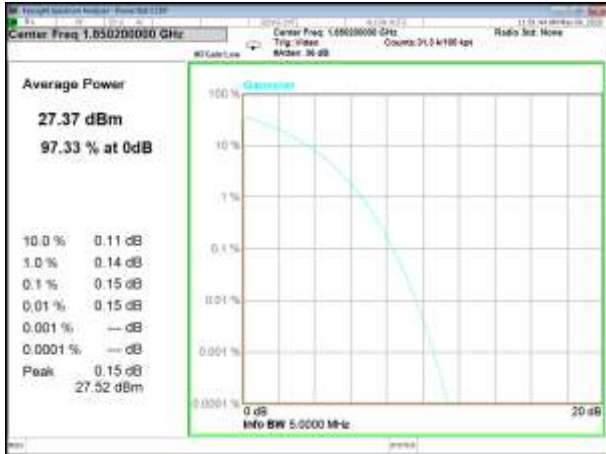
EGPRS850\_Lower



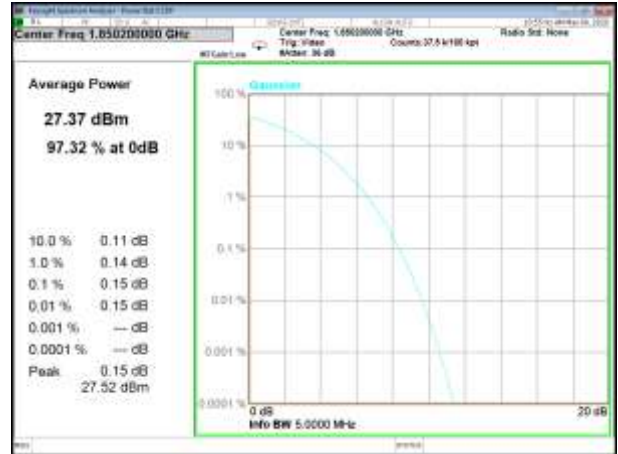
EGPRS850\_Middle



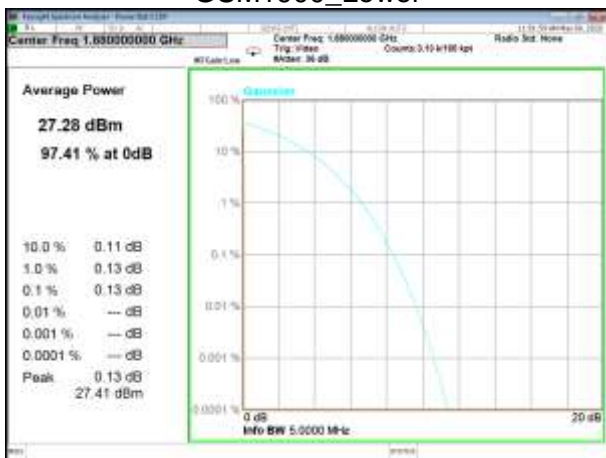
EGPRS850\_Higher



GSM1900\_Lower



GPRS1900\_Lower



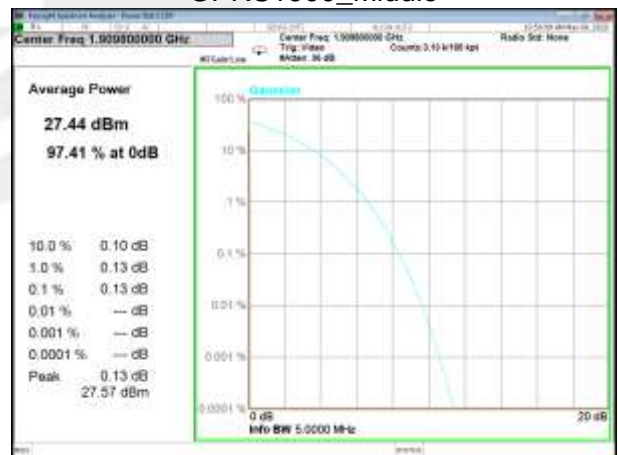
GSM1900\_Middle



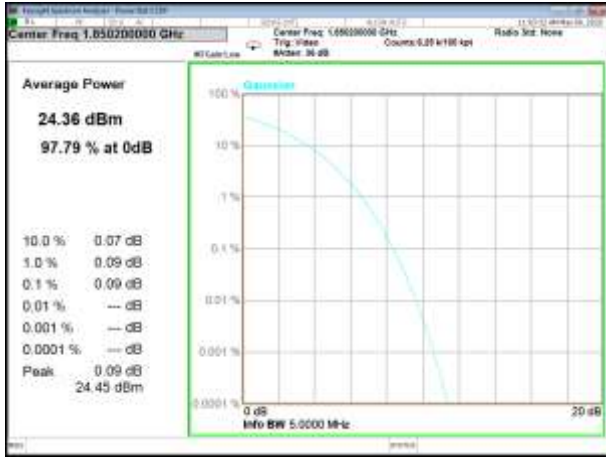
GPRS1900\_Middle



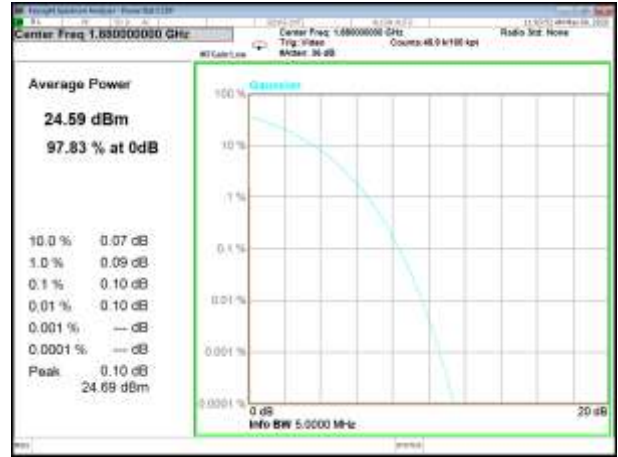
GSM1900\_Higher



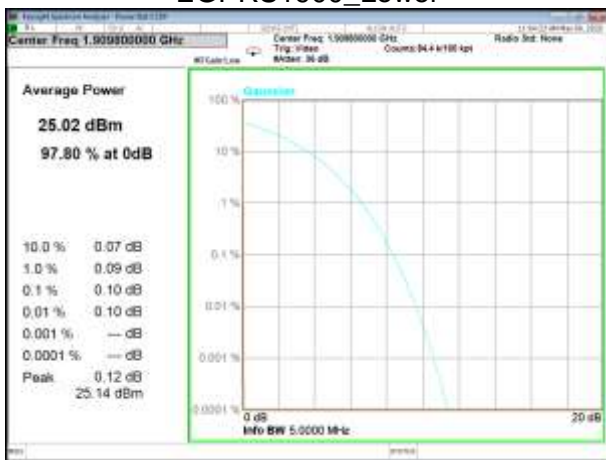
GPRS1900\_Higher



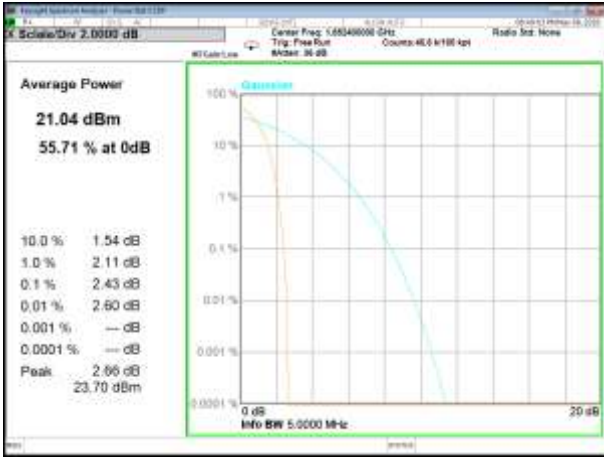
EGPRS1900\_Lower



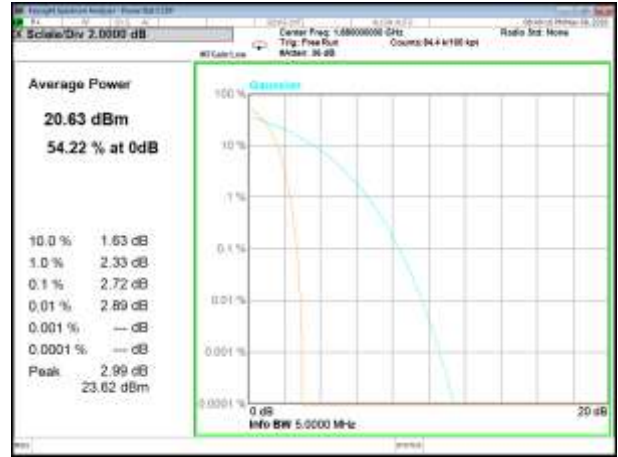
EGPRS1900\_Middle



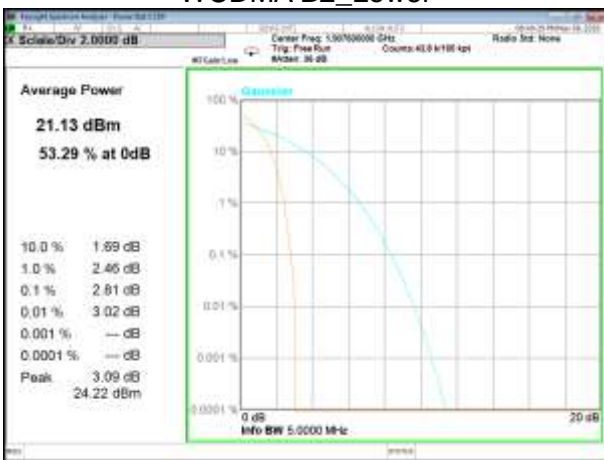
EGPRS1900\_Higher



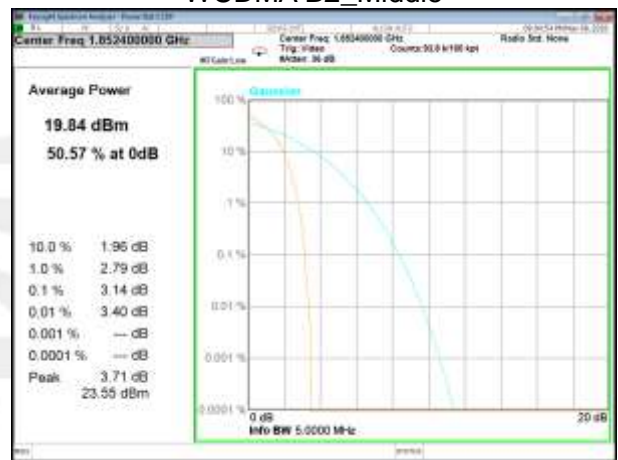
WCDMA B2\_Lower



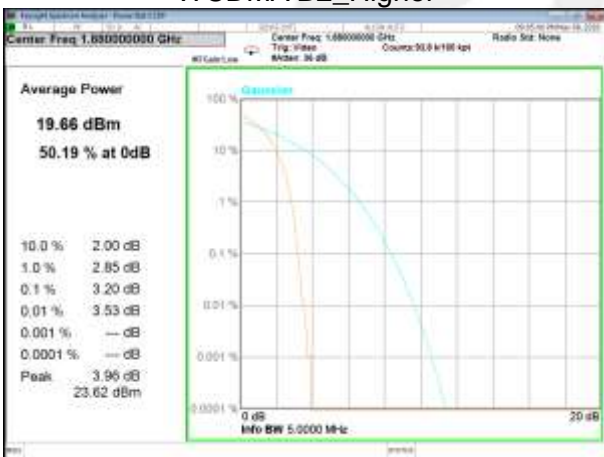
WCDMA B2\_Middle



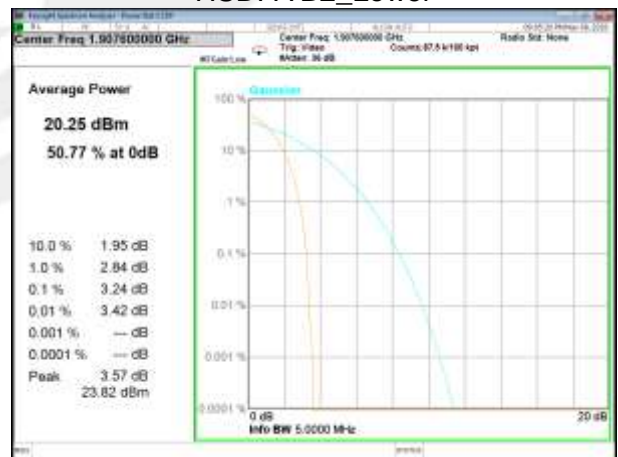
WCDMA B2\_Higher



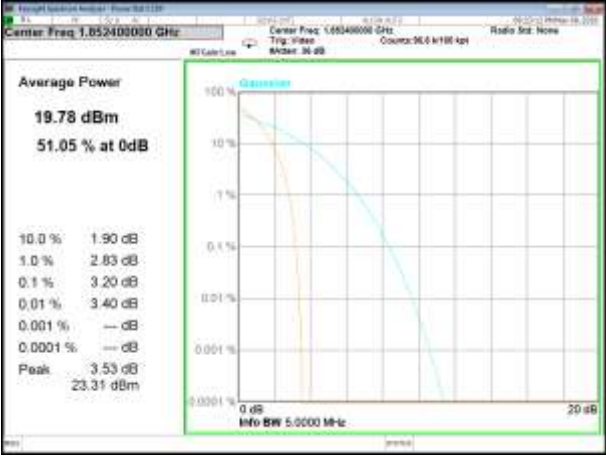
HSDPA B2\_Lower



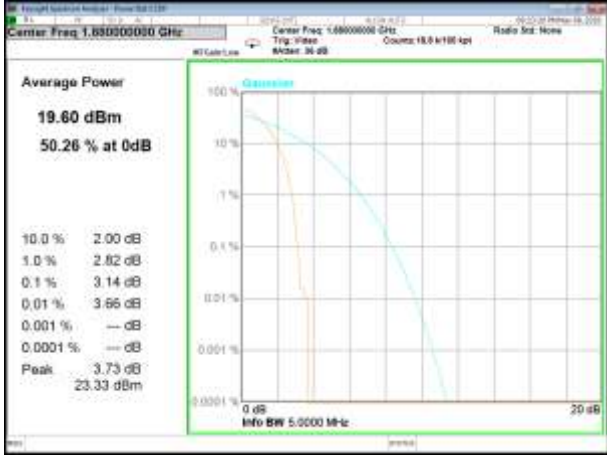
HSDPA B2\_Middle



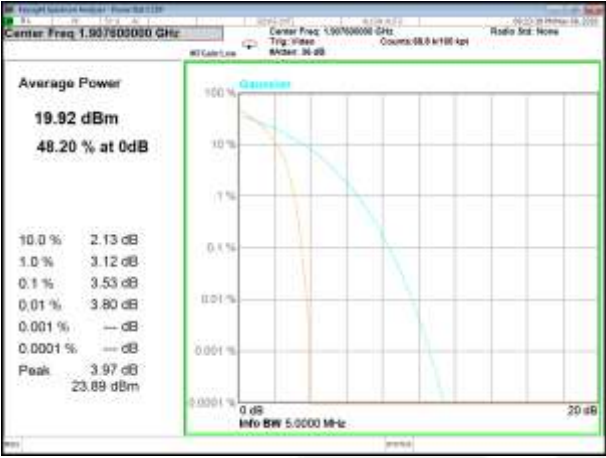
HSDPA B2\_Higher



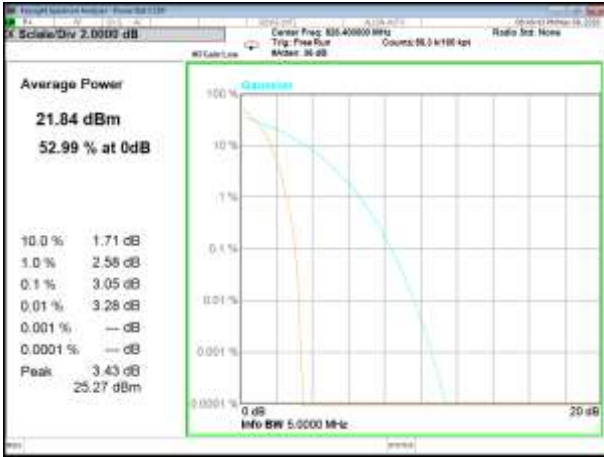
HSUPA B2\_Lower



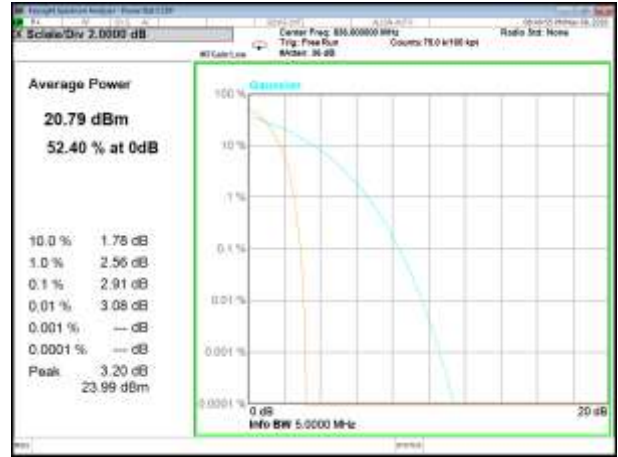
HSUPA B2\_Middle



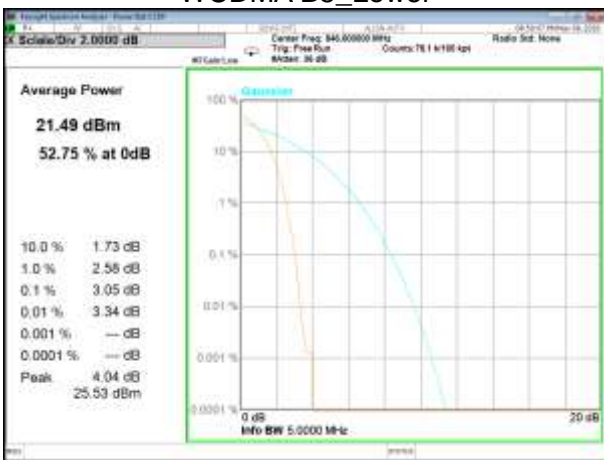
HSUPA B2\_Higher



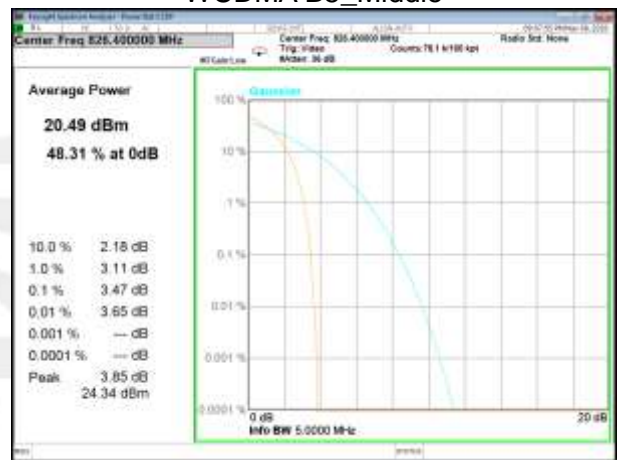
WCDMA B5\_Lower



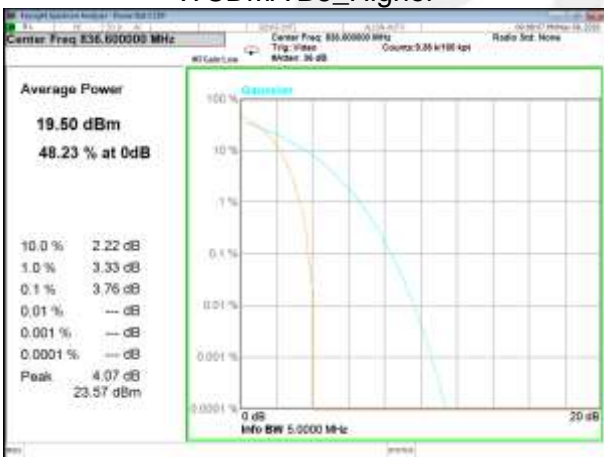
WCDMA B5\_Middle



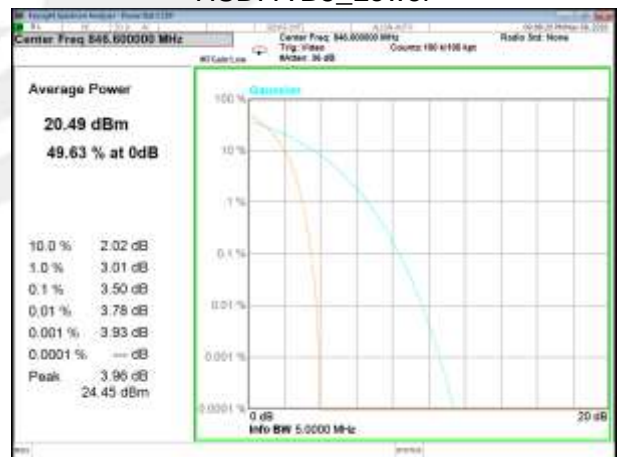
WCDMA B5\_Higher



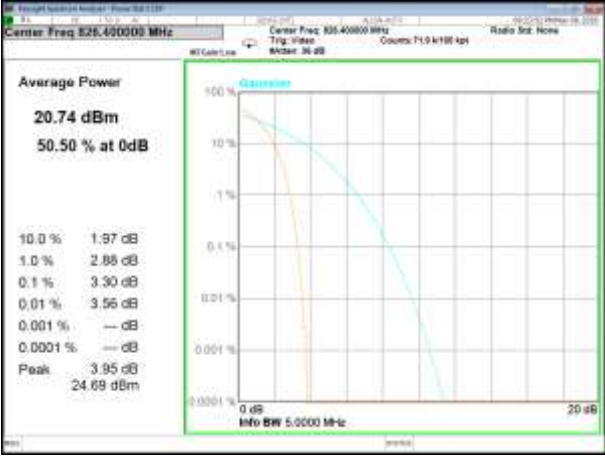
HSDPA B5\_Lower



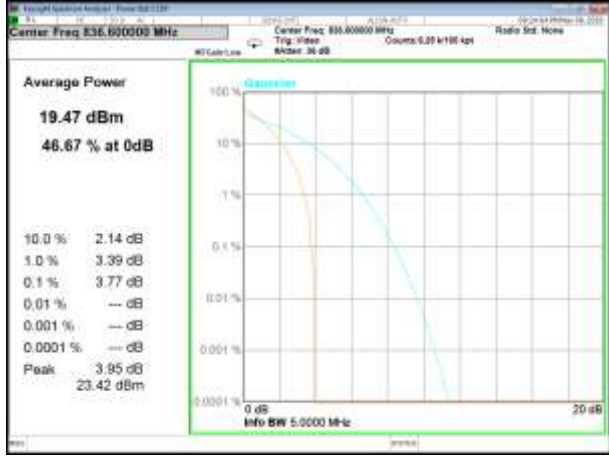
HSDPA B5\_Middle



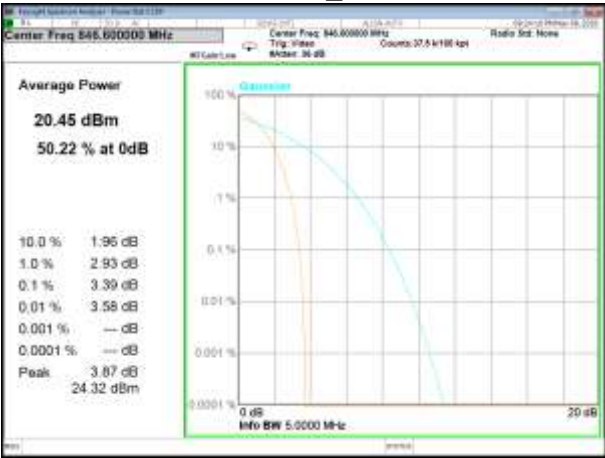
HSDPA B5\_Higher



HSUPA B5\_Lower



HSUPA B5\_Middle



HSUPA B5\_Higher





A3. TRANSMITTER RADIATED POWER (EIRP/ERP)

Note: Test is divided into three directions, X/Y/Z. X pattern for the worst

Radiated Power (ERP) for GSM 850 MHZ								
Mode	Frequency	Result						Conclusion
		S G.Level (dBm)	Cable loss	Gain(dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	
GSM850	824.2	24.45	0.44	6.5	2.15	28.36	Horizontal	Pass
	824.2	26.20	0.44	6.5	2.15	30.11	Vertical	Pass
	836.6	24.28	0.45	6.5	2.15	28.18	Horizontal	Pass
	836.6	26.08	0.45	6.5	2.15	29.98	Vertical	Pass
	848.8	24.35	0.46	6.5	2.15	28.24	Horizontal	Pass
	848.8	26.20	0.46	6.5	2.15	30.09	Vertical	Pass
GPRS850	824.2	23.70	0.44	6.5	2.15	27.61	Horizontal	Pass
	824.2	26.20	0.44	6.5	2.15	30.11	Vertical	Pass
	836.6	23.49	0.45	6.5	2.15	27.39	Horizontal	Pass
	836.6	25.88	0.45	6.5	2.15	29.78	Vertical	Pass
	848.8	23.80	0.46	6.5	2.15	27.69	Horizontal	Pass
	848.8	25.93	0.46	6.5	2.15	29.82	Vertical	Pass
EGPRS850	824.2	18.31	0.44	6.5	2.15	22.22	Horizontal	Pass
	824.2	20.61	0.44	6.5	2.15	24.52	Vertical	Pass
	836.6	18.14	0.45	6.5	2.15	22.04	Horizontal	Pass
	836.6	20.15	0.45	6.5	2.15	24.05	Vertical	Pass
	848.8	17.50	0.46	6.5	2.15	21.39	Horizontal	Pass
	848.8	19.91	0.46	6.5	2.15	23.80	Vertical	Pass
Limit	ERP<7W=38.45dBm							



Radiated Power (EIRP) for PCS 1900 MHZ							
Mode	Frequency	Result					Conclusion
		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization Of Max. ERP	
PCS1900	1850.2	16.96	2.41	10.35	24.90	Horizontal	Pass
	1850.2	18.81	2.41	10.35	26.75	Vertical	Pass
	1880	17.12	2.42	10.35	25.05	Horizontal	Pass
	1880	18.92	2.42	10.35	26.85	Vertical	Pass
	1909.8	16.86	2.43	10.35	24.78	Horizontal	Pass
	1909.8	18.8	2.43	10.35	26.72	Vertical	Pass
GPRS1900	1850.2	15.93	2.41	10.35	23.87	Horizontal	Pass
	1850.2	18.4	2.41	10.35	26.34	Vertical	Pass
	1880	16.04	2.42	10.35	23.97	Horizontal	Pass
	1880	18.36	2.42	10.35	26.29	Vertical	Pass
	1909.8	16.12	2.43	10.35	24.04	Horizontal	Pass
	1909.8	18.59	2.43	10.35	26.51	Vertical	Pass
EGPRS1900	1850.2	13.9	2.41	10.35	21.84	Horizontal	Pass
	1850.2	15.94	2.41	10.35	23.88	Vertical	Pass
	1880	14.13	2.42	10.35	22.06	Horizontal	Pass
	1880	16.56	2.42	10.35	24.49	Vertical	Pass
	1909.8	13.72	2.43	10.35	21.64	Horizontal	Pass
	1909.8	15.98	2.43	10.35	23.90	Vertical	Pass
Limit	EIRP<2W=33dBm						



Radiated Power (EIRP) for WCDMA Band II							
Mode	Frequency	Result					Conclusion
		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization Of Max. EIRP	
WCDMA	1852.4	11.45	2.41	10.35	19.39	Horizontal	Pass
	1852.4	13.36	2.41	10.35	21.30	Vertical	Pass
	1880	11.05	2.42	10.35	18.98	Horizontal	Pass
	1880	12.77	2.42	10.35	20.70	Vertical	Pass
	1907.4	11.88	2.43	10.35	19.80	Horizontal	Pass
	1907.4	13.66	2.43	10.35	21.58	Vertical	Pass
HSUPA	1852.4	9	2.41	10.35	16.94	Horizontal	Pass
	1852.4	10.74	2.41	10.35	18.68	Vertical	Pass
	1880	8.58	2.42	10.35	16.51	Horizontal	Pass
	1880	10.5	2.42	10.35	18.43	Vertical	Pass
	1907.4	9	2.43	10.35	16.92	Horizontal	Pass
	1907.4	10.86	2.43	10.35	18.78	Vertical	Pass
HSDPA	1852.4	9.02	2.41	10.35	16.96	Horizontal	Pass
	1852.4	10.95	2.41	10.35	18.89	Vertical	Pass
	1880	8.55	2.42	10.35	16.48	Horizontal	Pass
	1880	10.48	2.42	10.35	18.41	Vertical	Pass
	1907.4	9.34	2.43	10.35	17.26	Horizontal	Pass
	1907.4	11.07	2.43	10.35	18.99	Vertical	Pass
Limit	EIRP<2W=33dBm						



Radiated Power (ERP) for WCDMA Band V								
Mode	Frequency	Result						Conclusion
		S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	
WCDMA	826.4	15.50	0.44	6.5	2.15	19.41	Horizontal	Pass
	826.4	17.29	0.44	6.5	2.15	21.20	Vertical	Pass
	836.6	14.33	0.45	6.5	2.15	18.23	Horizontal	Pass
	836.6	16.11	0.45	6.5	2.15	20.01	Vertical	Pass
	846.4	14.80	0.46	6.5	2.15	18.69	Horizontal	Pass
	846.4	16.66	0.46	6.5	2.15	20.55	Vertical	Pass
HSUPA	826.4	14.21	0.44	6.5	2.15	18.12	Horizontal	Pass
	826.4	15.91	0.44	6.5	2.15	19.82	Vertical	Pass
	836.6	12.84	0.45	6.5	2.15	16.74	Horizontal	Pass
	836.6	14.82	0.45	6.5	2.15	18.72	Vertical	Pass
	846.4	13.98	0.46	6.5	2.15	17.87	Horizontal	Pass
	846.4	15.77	0.46	6.5	2.15	19.66	Vertical	Pass
HSDPA	826.4	14.42	0.44	6.5	2.15	18.33	Horizontal	Pass
	826.4	16.13	0.44	6.5	2.15	20.04	Vertical	Pass
	836.6	13.06	0.45	6.5	2.15	16.96	Horizontal	Pass
	836.6	14.95	0.45	6.5	2.15	18.85	Vertical	Pass
	846.4	13.99	0.46	6.5	2.15	17.88	Horizontal	Pass
	846.4	15.70	0.46	6.5	2.15	19.59	Vertical	Pass
Limit	ERP<7W=38.45dBm							



A4. OCCUPIED BANDWIDTH(99% OCCUPIED BANDWIDTH/26dB BANDWIDTH)

GSM Bandwidth [KHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
GSM850	245.33	316.1	246.86	313.5	245.03	314.8
GPRS850	246.97	317	243.26	321.9	245.31	307.5
EGPRS850	243.46	317.9	244.27	311.4	242.25	313.2

GSM Bandwidth [KHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
GSM1900	243.09	314.1	243.67	310.7	242.87	313.5
GPRS1900	244.8	319.5	246.49	314.7	246.93	323.8
EGPRS1900	247.62	317.3	247.06	316.4	246.33	312.5

WCDMA Bandwidth [MHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
WCDMA II	4.165	4.693	4.163	4.665	4.152	4.672
HSDPA II	4.164	4.67	4.154	4.653	4.147	4.656
HSUPA II	4.161	4.66	4.157	4.657	4.1372	4.652

WCDMA Bandwidth [MHz]						
Mode	Lowest		Middle		Highest	
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
WCDMA V	4.138	4.647	4.146	4.656	4.147	4.655
HSDPA V	4.1513	4.626	4.153	4.654	4.140	4.645
HSUPA V	4.149	4.640	4.154	4.636	4.138	4.647



GSM\_850\_Lower 26BW and 99%



GPRS\_850\_Lower 26BW and 99%



GSM\_850\_Middle 26BW and 99%



GPRS\_850\_Middle 26BW and 99%



GSM\_850\_Higher 26BW and 99%



GPRS\_850\_Higher 26BW and 99%



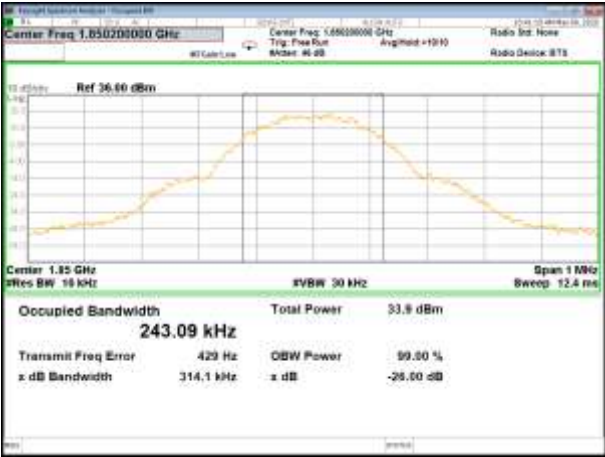
EGPRS\_850\_Lower\_26BW and 99%



EGPRS\_850\_Middle\_26BW and 99%



EGPRS\_850\_Higher\_26BW and 99%



GSM\_1900\_Lower 26BW and 99%



GPRS\_1900\_Lower 26BW and 99%



GSM\_1900\_Middle 26BW and 99%



GPRS\_1900\_Middle 26BW and 99%



GSM\_1900\_Higher 26BW and 99%



GPRS\_1900\_Higher 26BW and 99%





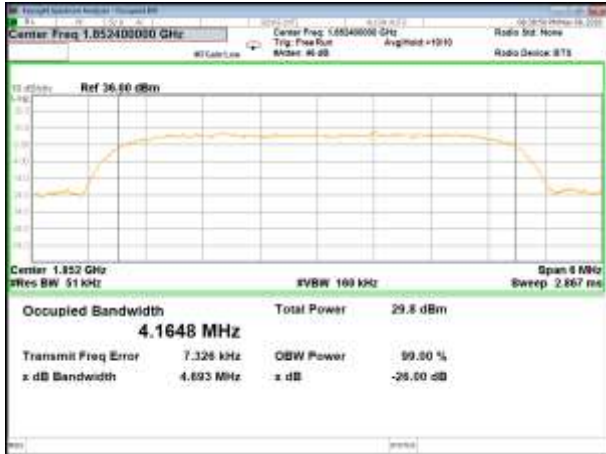
EGPRS\_1900\_Lower 26BW and 99%



EGPRS\_1900\_Middle\_26BW and 99%



EGPRS\_1900\_Higher 26BW and 99%



WCDMA B2\_26BW and 99%\_Low



WCDMA B2\_26BW and 99%\_Middle



WCDMA B2\_26BW and 99%\_High



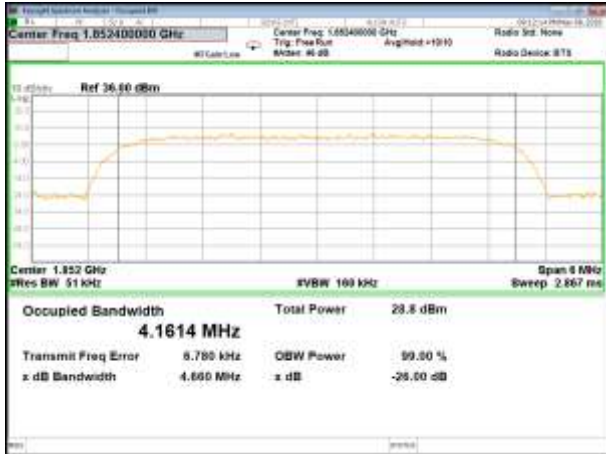
HSDPA B2\_26BW and 99%\_Low



HSDPA B2\_26BW and 99%\_Middle



HSDPA B2\_26BW and 99%\_High



HSUPA B2\_26BW and 99%\_Low



HSUPA B2\_26BW and 99%\_Middle



HSUPA B2\_26BW and 99%\_High



WCDMA B5\_26BW and 99%\_Low



WCDMA B5\_26BW and 99%\_Middle



WCDMA B5\_26BW and 99%\_High



HSDPA B5\_26BW and 99%\_Low



HSDPA B5\_26BW and 99%\_Middle



HSDPA B5\_26BW and 99%\_High



HSUPA B5\_26BW and 99%\_Low



HSUPA B5\_26BW and 99%\_Middle



HSUPA B5\_26BW and 99%\_High



A5.FREQUENCY STABILITY

Normal Voltage = 3.7V; Battery End Point (BEP) = 3.4V; Maximum Voltage = 4.2V

GSM 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	29.08	0.035	2.5ppm	PASS
40		18.92	0.023		
30		35.58	0.043		
20		33.49	0.040		
10		35.99	0.043		
0		29.19	0.035		
-10		12.53	0.015		
-20		23.42	0.028		
-30		21.55	0.026		
25		Maximum Voltage	27.35		
25	BEP	25.88	0.031		

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	20.62	0.025	2.5ppm	PASS
40		21.11	0.025		
30		12.13	0.014		
20		26.01	0.031		
10		20.73	0.025		
0		18.53	0.022		
-10		29.00	0.035		
-20		21.04	0.025		
-30		25.44	0.030		
25		Maximum Voltage	30.02		
25	BEP	19.58	0.023		

EGPRS 850 /836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	33.09	0.040	2.5ppm	PASS
40		23.68	0.028		
30		32.02	0.038		
20		17.92	0.021		
10		16.49	0.020		
0		25.25	0.030		
-10		18.27	0.022		
-20		17.19	0.021		
-30		12.62	0.015		
25		Maximum Voltage	13.31		
25	BEP	16.58	0.020		



GSM 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	30.50	0.016	Within Authorized Band	PASS
40		29.42	0.016		
30		34.18	0.018		
20		24.21	0.013		
10		19.62	0.010		
0		29.83	0.016		
-10		21.93	0.012		
-20		11.61	0.006		
-30		36.04	0.019		
25		Maximum Voltage	26.43		
25	BEP	19.66	0.010		

GPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	35.35	0.019	Within Authorized Band	PASS
40		16.06	0.009		
30		25.62	0.014		
20		25.78	0.014		
10		19.21	0.010		
0		26.52	0.014		
-10		24.79	0.013		
-20		21.12	0.011		
-30		13.37	0.007		
25		Maximum Voltage	22.90		
25	BEP	27.95	0.015		

EGPRS 1900 / 1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	18.33	0.010	Within Authorized Band	PASS
40		19.55	0.010		
30		17.10	0.009		
20		21.20	0.011		
10		19.49	0.010		
0		19.85	0.011		
-10		28.41	0.015		
-20		35.31	0.019		
-30		19.84	0.011		
25		Maximum Voltage	19.26		
25	BEP	12.78	0.007		



UMTS Band II /1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	30.55	0.016	Within Authorized Band	PASS
40		23.28	0.012		
30		24.92	0.013		
20		29.74	0.016		
10		14.78	0.008		
0		15.32	0.008		
-10		31.54	0.017		
-20		18.35	0.010		
-30		29.07	0.015		
25		Maximum Voltage	19.64		
25	BEP	27.50	0.015		

HSDPA Band II /1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	24.51	0.013	Within Authorized Band	PASS
40		34.42	0.018		
30		33.59	0.018		
20		36.25	0.019		
10		23.99	0.013		
0		18.31	0.010		
-10		28.21	0.015		
-20		17.82	0.009		
-30		22.70	0.012		
25		Maximum Voltage	31.64		
25	BEP	33.92	0.018		

HSUPA Band II /1880MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	11.57	0.006	Within Authorized Band	PASS
40		34.13	0.018		
30		14.65	0.008		
20		13.02	0.007		
10		28.60	0.015		
0		24.85	0.013		
-10		22.63	0.012		
-20		24.21	0.013		
-30		24.16	0.013		
25		Maximum Voltage	24.18		
25	BEP	29.11	0.015		





UMTS Band V / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	21.53	0.026	2.5ppm	PASS
40		35.88	0.043		
30		22.48	0.027		
20		24.11	0.029		
10		21.34	0.026		
0		29.63	0.035		
-10		19.80	0.024		
-20		34.72	0.042		
-30		24.55	0.029		
25		Maximum Voltage	29.28		
25	BEP	19.56	0.023		

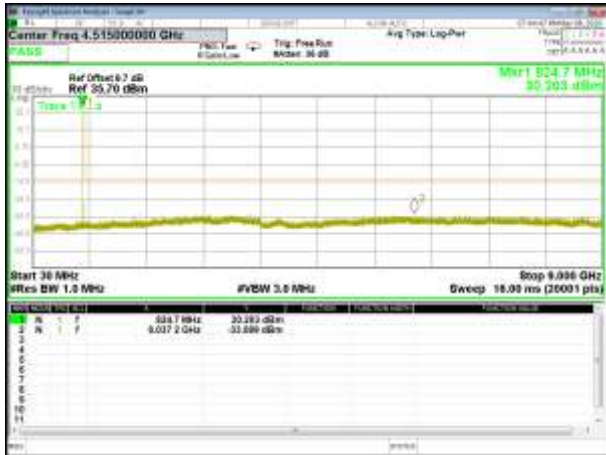
HSDPA Band V / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	20.73	0.025	2.5ppm	PASS
40		32.73	0.039		
30		13.73	0.016		
20		18.23	0.022		
10		11.66	0.014		
0		27.72	0.033		
-10		33.36	0.040		
-20		35.08	0.042		
-30		14.72	0.018		
25		Maximum Voltage	15.24		
25	BEP	16.94	0.020		

HSUPA Band V / 836.6MHz					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	26.97	0.032	2.5ppm	PASS
40		31.04	0.037		
30		32.88	0.039		
20		22.14	0.026		
10		18.73	0.022		
0		18.31	0.022		
-10		25.89	0.031		
-20		14.21	0.017		
-30		32.46	0.039		
25		Maximum Voltage	23.41		
25	BEP	31.80	0.038		

1. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



### A6.SPURIOUS EMISSIONS AT ANTENNA TERMINALS



GSM\_850\_Lower Conducted Spurious



GPRS\_850\_Lower Conducted Spurious



GSM\_850\_Middle Conducted Spurious



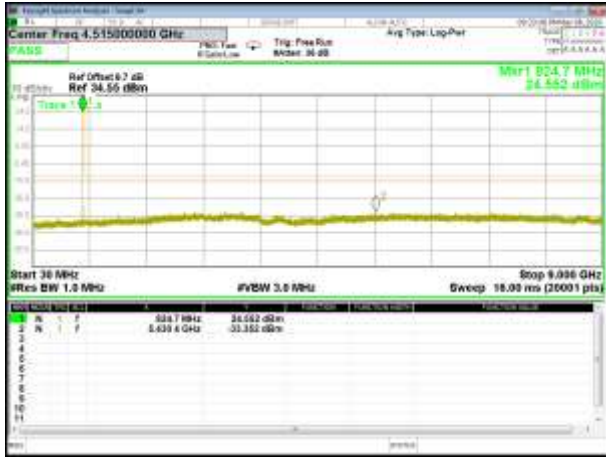
GPRS\_850\_Middle Conducted Spurious



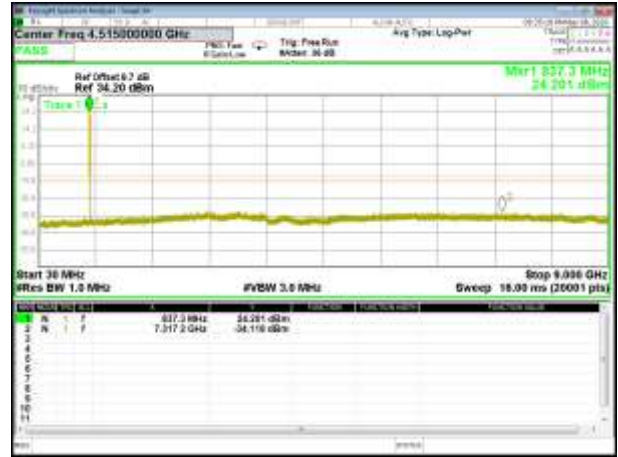
GSM\_850\_Higher Conducted Spurious



GPRS\_850\_Higher Conducted Spurious



EGPRS\_850\_Lower\_Conducted Spurious



EGPRS\_850\_Middle\_Conducted Spurious



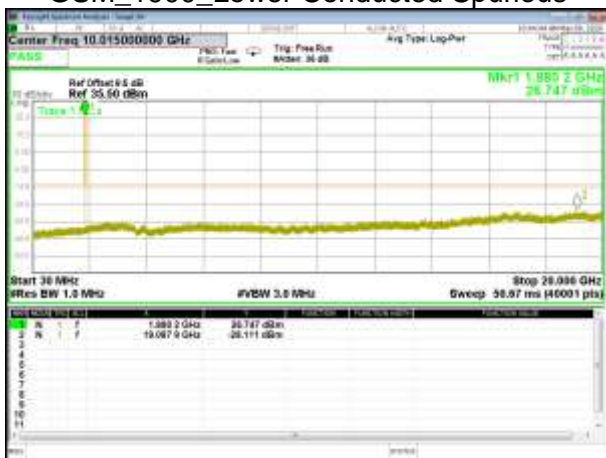
EGPRS\_850\_Higher\_Conducted Spurious



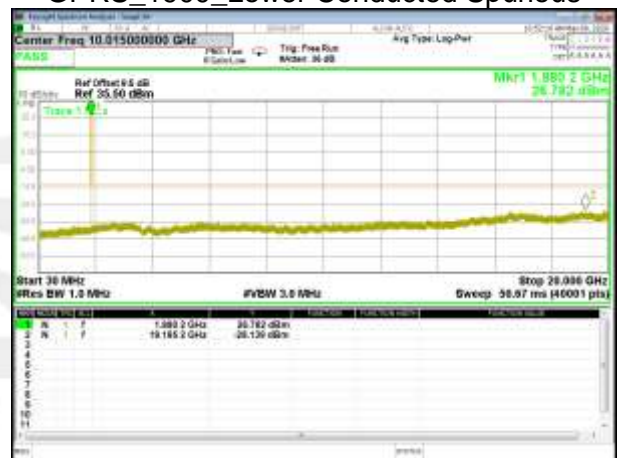
GSM\_1900\_Lower Conducted Spurious



GPRS\_1900\_Lower Conducted Spurious



GSM\_1900\_Middle Conducted Spurious



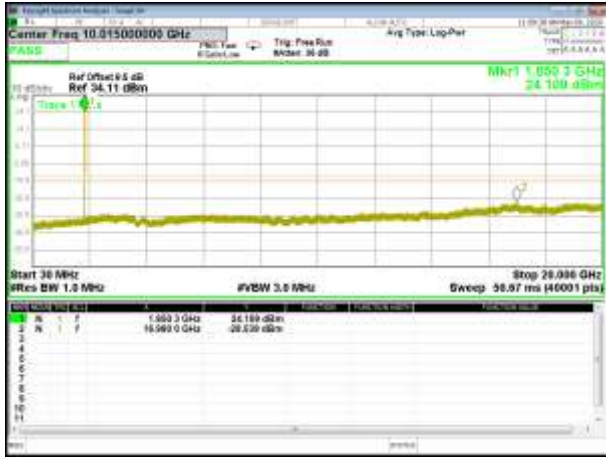
GPRS\_1900\_Middle Conducted Spurious



GSM\_1900\_Higher Conducted Spurious



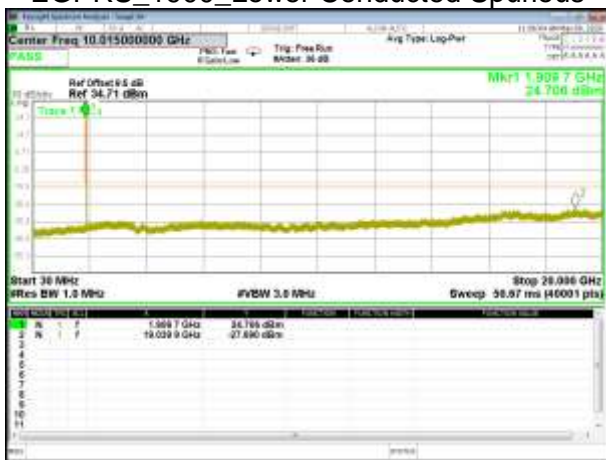
GPRS\_1900\_Higher Conducted Spurious



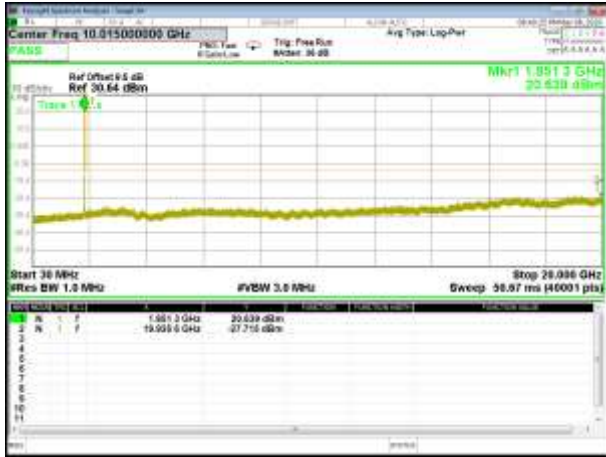
EGPRS\_1900\_Lower Conducted Spurious



EGPRS\_1900\_Middle Conducted Spurious



EGPRS\_1900\_Higher Conducted Spurious



WCDMA B2\_Conducted Spurious\_Low



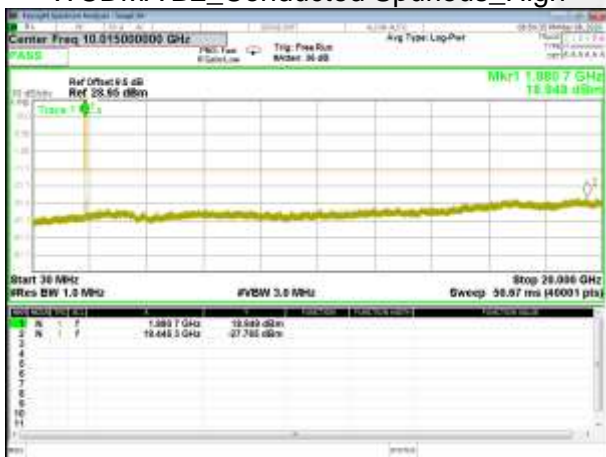
WCDMA B2\_Conducted Spurious\_Middle



WCDMA B2\_Conducted Spurious\_High



HSDPA B2\_Conducted Spurious\_Low



HSDPA B2\_Conducted Spurious\_Middle



HSDPA B2\_Conducted Spurious\_High



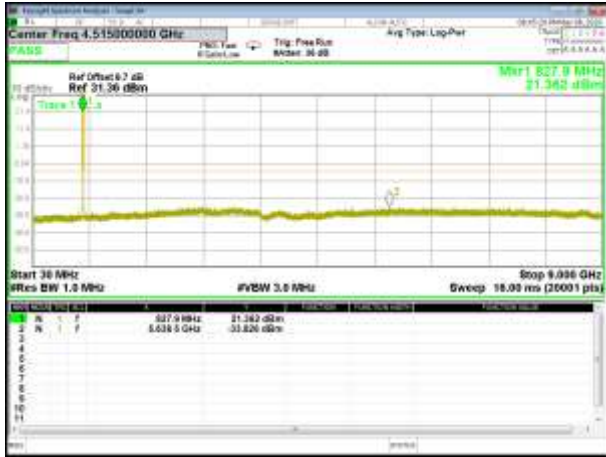
HSUPA B2\_Conducted Spurious\_Low



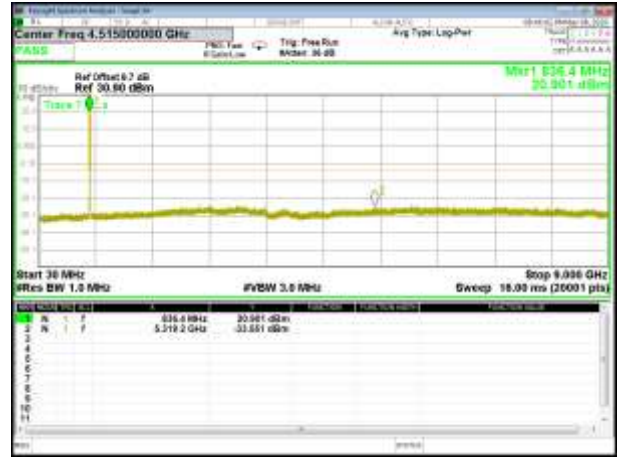
HSUPA B2\_Conducted Spurious\_Middle



HSUPA B2\_Conducted Spurious\_High



WCDMA B5\_Conducted Spurious\_Low



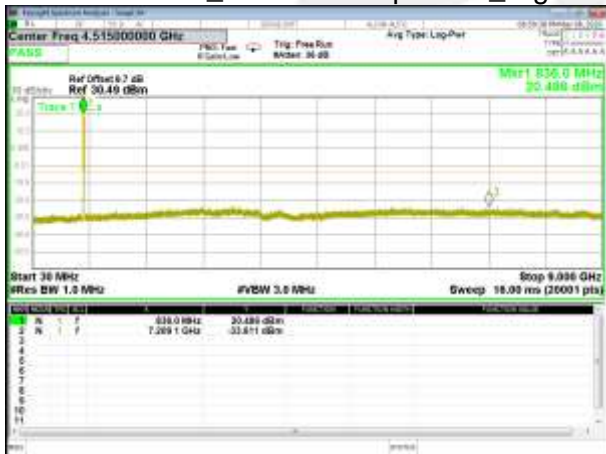
WCDMA B5\_Conducted Spurious\_Middle



WCDMA B5\_Conducted Spurious\_High



HSDPA B5\_Conducted Spurious\_Low

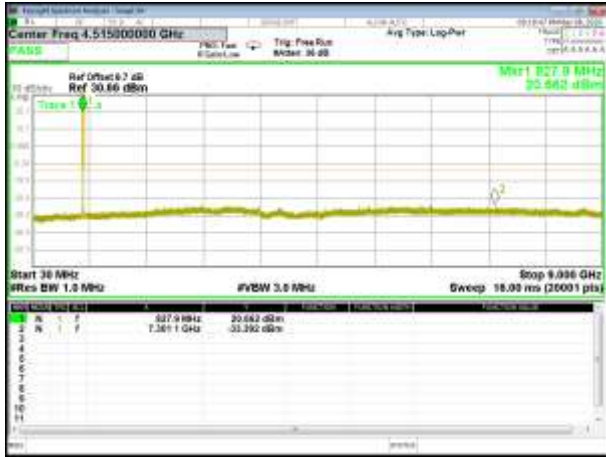


HSDPA B5\_Conducted Spurious\_Middle

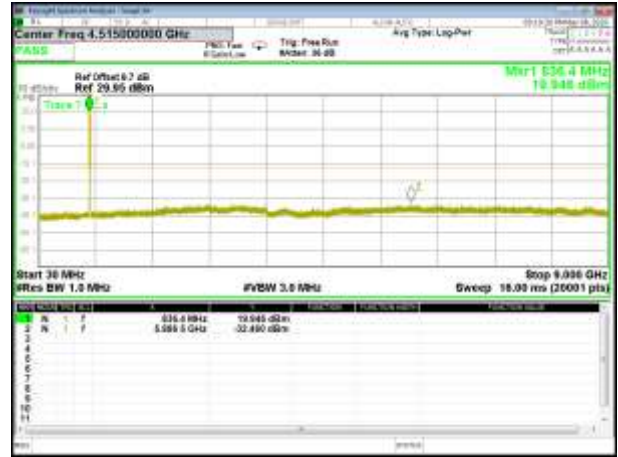


HSDPA B5\_Conducted Spurious\_High





HSUPA B5\_Conducted Spurious\_Low



HSUPA B5\_Conducted Spurious\_Middle



HSUPA B5\_Conducted Spurious\_High



### A7. BAND EDGE



GSM\_850\_Lower Band edge



GPRS\_850\_Lower Band edge



GSM\_850\_Higher Band edge



GPRS\_850\_Higher Band edge



EGPRS\_850\_Lower Band edge



EGPRS\_850\_Higher Band edge



GSM\_1900\_Lower Band edge



GPRS\_1900\_Lower Band edge



GSM\_1900\_Higher Band edge



GPRS\_1900\_Higher Band edge



EGPRS\_1900\_Lower Band edge



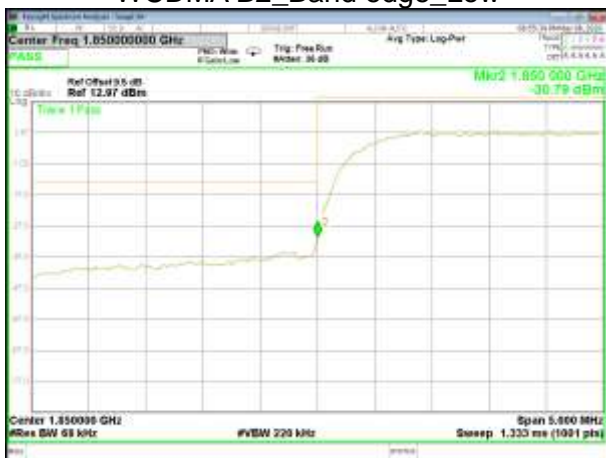
EGPRS\_1900\_Higher Band edge



WCDMA B2\_Band edge\_Low



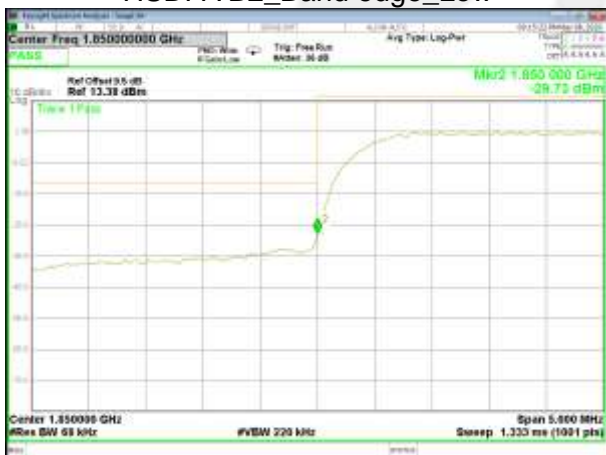
WCDMA B2\_Band edge\_High



HSDPA B2\_Band edge\_Low



HSDPA B2\_Band edge\_High



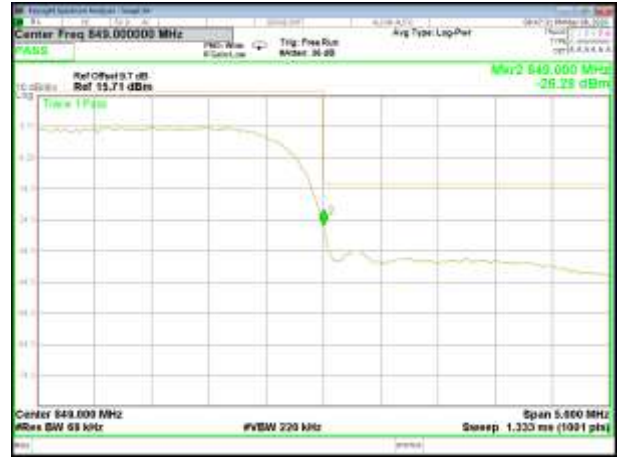
HSUPA B2\_Band edge\_Low



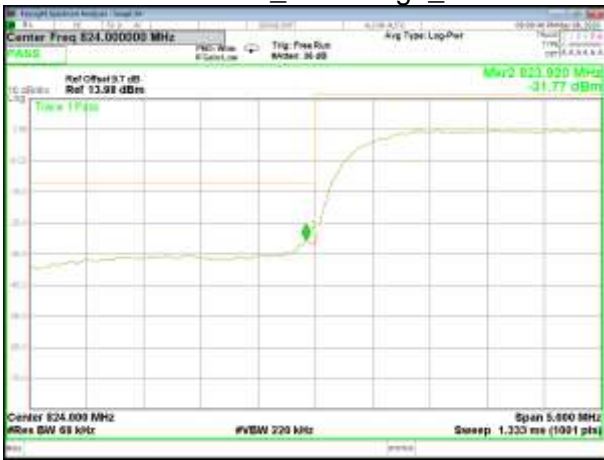
HSUPA B2\_Band edge\_High



WCDMA B5\_Band edge\_Low



WCDMA B5\_Band edge\_High



HSDPA B5\_Band edge\_Low



HSDPA B5\_Band edge\_High



HSUPA B5\_Band edge\_Low



HSUPA B5\_Band edge\_High



A8. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

Note:(1) Below 30MHz no Spurious found is the worst condition.

(2) Above 3.5GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3)Test is divided into three directions, X/Y/Z. X pattern for the worst.

GSM 850: (30-9000)MHz							
The Worst Test Results Channel 128/824.2 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
1648.45	-40.39	9.40	4.75	-35.74	-13.00	-22.74	H
2472.45	-39.73	10.60	8.39	-37.52	-13.00	-24.52	H
3296.44	-31.70	12.00	11.79	-31.49	-13.00	-18.49	H
1648.09	-43.78	9.40	4.75	-39.13	-13.00	-26.13	V
2472.40	-44.98	10.60	8.39	-42.77	-13.00	-29.77	V
3296.83	-42.95	12.00	11.79	-42.74	-13.00	-29.74	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
1673.00	-40.30	9.50	4.76	-35.56	-13.00	-22.56	H
2509.86	-39.20	10.70	8.40	-36.90	-13.00	-23.90	H
3346.15	-31.05	12.20	11.80	-30.65	-13.00	-17.65	H
1672.87	-44.30	9.40	4.75	-39.65	-13.00	-26.65	V
2509.74	-44.94	10.60	8.39	-42.73	-13.00	-29.73	V
3346.38	-42.54	12.20	11.82	-42.16	-13.00	-29.16	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
1697.53	-40.26	9.60	4.77	-35.43	-13.00	-22.43	H
2546.40	-40.19	10.80	8.50	-37.89	-13.00	-24.89	H
3395.12	-32.30	12.50	11.90	-31.70	-13.00	-18.70	H
1697.55	-43.32	9.60	4.77	-38.49	-13.00	-25.49	V
2546.30	-44.63	10.80	8.50	-42.33	-13.00	-29.33	V
3395.16	-42.94	12.50	11.90	-42.34	-13.00	-29.34	V



GPRS 850: (30-9000)MHz							
The Worst Test Results Channel 128/824.2 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
1648.43	-41.13	9.40	4.75	-36.48	-13.00	-23.48	H
2472.48	-39.33	10.60	8.39	-37.12	-13.00	-24.12	H
3296.91	-31.75	12.00	11.79	-31.54	-13.00	-18.54	H
1648.05	-43.63	9.40	4.75	-38.98	-13.00	-25.98	V
2472.65	-45.41	10.60	8.39	-43.20	-13.00	-30.20	V
3296.86	-42.74	12.00	11.79	-42.53	-13.00	-29.53	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
1672.82	-41.56	9.50	4.76	-36.82	-13.00	-23.82	H
2509.71	-39.67	10.70	8.40	-37.37	-13.00	-24.37	H
3346.41	-31.36	12.20	11.80	-30.96	-13.00	-17.96	H
1672.88	-44.31	9.40	4.75	-39.66	-13.00	-26.66	V
2509.66	-44.45	10.60	8.39	-42.24	-13.00	-29.24	V
3346.38	-42.87	12.20	11.82	-42.49	-13.00	-29.49	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
1697.22	-40.53	9.60	4.77	-35.70	-13.00	-22.70	H
2546.30	-40.23	10.80	8.50	-37.93	-13.00	-24.93	H
3394.87	-31.83	12.50	11.90	-31.23	-13.00	-18.23	H
1697.61	-43.85	9.60	4.77	-39.02	-13.00	-26.02	V
2546.11	-44.15	10.80	8.50	-41.85	-13.00	-28.85	V
3395.05	-43.55	12.50	11.90	-42.95	-13.00	-29.95	V



EGPRS 850: (30-9000)MHz							
The Worst Test Results Channel 128/824.2 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
1648.47	-41.51	9.40	4.75	-36.86	-13.00	-23.86	H
2472.51	-40.01	10.60	8.39	-37.80	-13.00	-24.80	H
3296.77	-32.30	12.00	11.79	-32.09	-13.00	-19.09	H
1648.46	-43.76	9.40	4.75	-39.11	-13.00	-26.11	V
2472.39	-44.22	10.60	8.39	-42.01	-13.00	-29.01	V
3296.83	-43.46	12.00	11.79	-43.25	-13.00	-30.25	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
1673.04	-41.46	9.50	4.76	-36.72	-13.00	-23.72	H
2509.45	-40.37	10.70	8.40	-38.07	-13.00	-25.07	H
3346.43	-32.10	12.20	11.80	-31.70	-13.00	-18.70	H
1673.04	-43.39	9.40	4.75	-38.74	-13.00	-25.74	V
2509.66	-45.08	10.60	8.39	-42.87	-13.00	-29.87	V
3346.12	-42.81	12.20	11.82	-42.43	-13.00	-29.43	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
1697.41	-41.40	9.60	4.77	-36.57	-13.00	-23.57	H
2546.12	-39.67	10.80	8.50	-37.37	-13.00	-24.37	H
3395.23	-32.15	12.50	11.90	-31.55	-13.00	-18.55	H
1697.50	-44.08	9.60	4.77	-39.25	-13.00	-26.25	V
2546.31	-45.15	10.80	8.50	-42.85	-13.00	-29.85	V
3395.02	-43.77	12.50	11.90	-43.17	-13.00	-30.17	V





DCS 1900: (30-20000)MHz							
The Worst Test Results for Channel 512/1850.2MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
3700.04	-34.42	12.60	12.93	-34.75	-13.00	-21.75	H
5550.42	-34.89	13.10	17.11	-38.90	-13.00	-25.90	H
7400.82	-33.30	11.50	22.20	-44.00	-13.00	-31.00	H
3700.04	-35.11	12.60	12.93	-35.44	-13.00	-22.44	V
5550.21	-34.94	13.10	17.11	-38.95	-13.00	-25.95	V
7400.69	-32.19	11.50	22.20	-42.89	-13.00	-29.89	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
3760.08	-33.98	12.60	12.93	-34.31	-13.00	-21.31	H
5640.11	-34.18	13.10	17.11	-38.19	-13.00	-25.19	H
7520.17	-33.00	11.50	22.20	-43.70	-13.00	-30.70	H
3760.28	-35.96	12.60	12.93	-36.29	-13.00	-23.29	V
5640.17	-35.23	13.10	17.11	-39.24	-13.00	-26.24	V
7520.17	-32.83	11.50	22.20	-43.53	-13.00	-30.53	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
3819.45	-34.26	12.60	12.93	-34.59	-13.00	-21.59	H
5729.05	-34.14	13.10	17.11	-38.15	-13.00	-25.15	H
7638.93	-32.97	11.50	22.20	-43.67	-13.00	-30.67	H
3819.39	-35.09	12.60	12.93	-35.42	-13.00	-22.42	V
5729.48	-34.05	13.10	17.11	-38.06	-13.00	-25.06	V
7639.02	-32.92	11.50	22.20	-43.62	-13.00	-30.62	V



GPRS1900: (30-20000)MHz							
The Worst Test Results for Channel 512/1850.2MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
3700.06	-33.89	12.60	12.93	-34.22	-13.00	-21.22	H
5550.56	-35.02	13.10	17.11	-39.03	-13.00	-26.03	H
7400.93	-33.04	11.50	22.20	-43.74	-13.00	-30.74	H
3700.29	-35.88	12.60	12.93	-36.21	-13.00	-23.21	V
5550.33	-33.75	13.10	17.11	-37.76	-13.00	-24.76	V
7400.87	-32.87	11.50	22.20	-43.57	-13.00	-30.57	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
3759.96	-34.76	12.60	12.93	-35.09	-13.00	-22.09	H
5640.11	-34.96	13.10	17.11	-38.97	-13.00	-25.97	H
7519.90	-32.99	11.50	22.20	-43.69	-13.00	-30.69	H
3760.04	-35.18	12.60	12.93	-35.51	-13.00	-22.51	V
5639.85	-35.04	13.10	17.11	-39.05	-13.00	-26.05	V
7520.05	-32.75	11.50	22.20	-43.45	-13.00	-30.45	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
3819.51	-34.48	12.60	12.93	-34.81	-13.00	-21.81	H
5729.28	-34.00	13.10	17.11	-38.01	-13.00	-25.01	H
7638.84	-32.52	11.50	22.20	-43.22	-13.00	-30.22	H
3819.53	-35.25	12.60	12.93	-35.58	-13.00	-22.58	V
5729.38	-34.49	13.10	17.11	-38.50	-13.00	-25.50	V
7639.18	-32.88	11.50	22.20	-43.58	-13.00	-30.58	V



EGPRS 1900: (30-20000)MHz							
The Worst Test Results for Channel 512/1850.2MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
3700.34	-34.58	12.60	12.93	-34.91	-13.00	-21.91	H
5550.21	-34.17	13.10	17.11	-38.18	-13.00	-25.18	H
7400.50	-33.47	11.50	22.20	-44.17	-13.00	-31.17	H
3700.41	-35.56	12.60	12.93	-35.89	-13.00	-22.89	V
5550.36	-34.67	13.10	17.11	-38.68	-13.00	-25.68	V
7400.61	-33.01	11.50	22.20	-43.71	-13.00	-30.71	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
3759.99	-34.79	12.60	12.93	-35.12	-13.00	-22.12	H
5640.14	-34.81	13.10	17.11	-38.82	-13.00	-25.82	H
7520.26	-32.47	11.50	22.20	-43.17	-13.00	-30.17	H
3760.29	-35.49	12.60	12.93	-35.82	-13.00	-22.82	V
5640.28	-34.39	13.10	17.11	-38.40	-13.00	-25.40	V
7519.89	-33.16	11.50	22.20	-43.86	-13.00	-30.86	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
3819.26	-34.49	12.60	12.93	-34.82	-13.00	-21.82	H
5729.15	-33.99	13.10	17.11	-38.00	-13.00	-25.00	H
7639.16	-33.39	11.50	22.20	-44.09	-13.00	-31.09	H
3819.55	-35.14	12.60	12.93	-35.47	-13.00	-22.47	V
5729.04	-34.36	13.10	17.11	-38.37	-13.00	-25.37	V
7639.23	-32.99	11.50	22.20	-43.69	-13.00	-30.69	V



WCDMA Band V: (30-9000)MHz							
The most test results channel 4132/826.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
1652.19	-40.94	9.40	4.75	-36.29	-13.00	-23.29	H
2479.53	-40.08	10.60	8.39	-37.87	-13.00	-24.87	H
3305.57	-32.03	12.00	11.79	-31.82	-13.00	-18.82	H
1652.02	-43.95	9.40	4.75	-39.30	-13.00	-26.30	V
2479.47	-44.38	10.60	8.39	-42.17	-13.00	-29.17	V
3305.71	-43.78	12.00	11.79	-43.57	-13.00	-30.57	V
The Worst Test Results Channel 4183/836.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
1673.01	-41.43	9.40	4.75	-36.78	-13.00	-23.78	H
2509.63	-39.90	10.60	8.39	-37.69	-13.00	-24.69	H
3346.40	-32.18	12.00	11.79	-31.97	-13.00	-18.97	H
1672.90	-43.29	9.40	4.75	-38.64	-13.00	-25.64	V
2509.54	-45.01	10.60	8.39	-42.80	-13.00	-29.80	V
3346.10	-42.89	12.00	11.79	-42.68	-13.00	-29.68	V
The Worst Test Results Channel 4233/846.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
1693.45	-40.52	9.40	4.75	-35.87	-13.00	-22.87	H
2539.55	-40.02	10.60	8.39	-37.81	-13.00	-24.81	H
3386.10	-31.12	12.00	11.79	-30.91	-13.00	-17.91	H
1693.32	-43.97	9.40	4.75	-39.32	-13.00	-26.32	V
2539.56	-45.10	10.60	8.39	-42.89	-13.00	-29.89	V
3386.14	-43.87	12.00	11.79	-43.66	-13.00	-30.66	V



HSUPA Band V: (30-9000)MHz							
The most testresults channel 4132/826.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
1652.21	-40.27	9.40	4.75	-35.62	-13.00	-22.62	H
2479.56	-39.39	10.60	8.39	-37.18	-13.00	-24.18	H
3305.72	-31.23	12.00	11.79	-31.02	-13.00	-18.02	H
1652.44	-44.11	9.40	4.75	-39.46	-13.00	-26.46	V
2479.43	-44.11	10.60	8.39	-41.90	-13.00	-28.90	V
3305.84	-42.75	12.00	11.79	-42.54	-13.00	-29.54	V
The Worst Test Results Channel 4183/836.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
1673.03	-41.42	9.40	4.75	-36.77	-13.00	-23.77	H
2509.49	-39.30	10.60	8.39	-37.09	-13.00	-24.09	H
3346.12	-31.49	12.00	11.79	-31.28	-13.00	-18.28	H
1673.01	-43.59	9.40	4.75	-38.94	-13.00	-25.94	V
2509.81	-44.79	10.60	8.39	-42.58	-13.00	-29.58	V
3346.38	-42.58	12.00	11.79	-42.37	-13.00	-29.37	V
The Worst Test Results Channel 4233/846.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
1693.46	-40.41	9.40	4.75	-35.76	-13.00	-22.76	H
2539.46	-40.56	10.60	8.39	-38.35	-13.00	-25.35	H
3386.27	-31.83	12.00	11.79	-31.62	-13.00	-18.62	H
1693.58	-44.27	9.40	4.75	-39.62	-13.00	-26.62	V
2539.12	-44.10	10.60	8.39	-41.89	-13.00	-28.89	V
3386.29	-43.55	12.00	11.79	-43.34	-13.00	-30.34	V



HSDPA Band V: (30-9000)MHz							
The most testresults channel 4132/826.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
1652.22	-41.28	9.40	4.75	-36.63	-13.00	-23.63	H
2479.43	-39.68	10.60	8.39	-37.47	-13.00	-24.47	H
3305.68	-31.87	12.00	11.79	-31.66	-13.00	-18.66	H
1652.10	-43.37	9.40	4.75	-38.72	-13.00	-25.72	V
2479.54	-44.91	10.60	8.39	-42.70	-13.00	-29.70	V
3305.80	-43.76	12.00	11.79	-43.55	-13.00	-30.55	V
The Worst Test Results Channel 4183/836.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
1672.80	-40.90	9.40	4.75	-36.25	-13.00	-23.25	H
2509.81	-39.95	10.60	8.39	-37.74	-13.00	-24.74	H
3346.23	-32.14	12.00	11.79	-31.93	-13.00	-18.93	H
1673.22	-44.46	9.40	4.75	-39.81	-13.00	-26.81	V
2509.86	-45.07	10.60	8.39	-42.86	-13.00	-29.86	V
3346.45	-43.64	12.00	11.79	-43.43	-13.00	-30.43	V
The Worst Test Results Channel 4233/846.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
1693.65	-41.16	9.40	4.75	-36.51	-13.00	-23.51	H
2539.30	-40.13	10.60	8.39	-37.92	-13.00	-24.92	H
3386.09	-32.21	12.00	11.79	-32.00	-13.00	-19.00	H
1693.38	-43.48	9.40	4.75	-38.83	-13.00	-25.83	V
2539.36	-44.66	10.60	8.39	-42.45	-13.00	-29.45	V
3386.10	-42.99	12.00	11.79	-42.78	-13.00	-29.78	V



WCDMA Band II: (30-20000)MHz							
The Worst Test Results for Channel 9262/1852.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
3704.35	-34.87	12.60	12.93	-35.20	-13.00	-22.20	H
5557.48	-34.12	13.10	17.11	-38.13	-13.00	-25.13	H
7409.78	-32.75	11.50	22.20	-43.45	-13.00	-30.45	H
3704.39	-35.34	12.60	12.93	-35.67	-13.00	-22.67	V
5557.35	-34.68	13.10	17.11	-38.69	-13.00	-25.69	V
7409.82	-32.87	11.50	22.20	-43.57	-13.00	-30.57	V
The Worst Test Results for Channel 9400/1880MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
3759.89	-33.86	12.60	12.93	-34.19	-13.00	-21.19	H
5640.19	-34.95	13.10	17.11	-38.96	-13.00	-25.96	H
7520.20	-32.63	11.50	22.20	-43.33	-13.00	-30.33	H
3760.12	-35.38	12.60	12.93	-35.71	-13.00	-22.71	V
5640.02	-34.45	13.10	17.11	-38.46	-13.00	-25.46	V
7519.87	-32.01	11.50	22.20	-42.71	-13.00	-29.71	V
The Worst Test Results for Channel 9538/1907.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
3815.50	-34.38	12.60	12.93	-34.71	-13.00	-21.71	H
5722.16	-34.67	13.10	17.11	-38.68	-13.00	-25.68	H
7630.24	-33.11	11.50	22.20	-43.81	-13.00	-30.81	H
3815.38	-35.92	12.60	12.93	-36.25	-13.00	-23.25	V
5722.23	-34.67	13.10	17.11	-38.68	-13.00	-25.68	V
7629.93	-32.31	11.50	22.20	-43.01	-13.00	-30.01	V



HSUPA Band II: (30-20000)MHz							
The Worst Test Results for Channel 9262/1852.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
3704.47	-34.24	12.60	12.93	-34.57	-13.00	-21.57	H
5557.51	-35.46	13.10	17.11	-39.47	-13.00	-26.47	H
7409.95	-32.28	11.50	22.20	-42.98	-13.00	-29.98	H
3704.35	-35.21	12.60	12.93	-35.54	-13.00	-22.54	V
5557.34	-33.93	13.10	17.11	-37.94	-13.00	-24.94	V
7409.75	-31.75	11.50	22.20	-42.45	-13.00	-29.45	V
The Worst Test Results for Channel 9400/1880MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
3759.88	-34.91	12.60	12.93	-35.24	-13.00	-22.24	H
5639.97	-34.66	13.10	17.11	-38.67	-13.00	-25.67	H
7519.94	-32.24	11.50	22.20	-42.94	-13.00	-29.94	H
3760.09	-34.81	12.60	12.93	-35.14	-13.00	-22.14	V
5640.06	-34.89	13.10	17.11	-38.90	-13.00	-25.90	V
7520.22	-31.93	11.50	22.20	-42.63	-13.00	-29.63	V
The Worst Test Results for Channel 9538/1907.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
3815.43	-33.99	12.60	12.93	-34.32	-13.00	-21.32	H
5722.11	-35.32	13.10	17.11	-39.33	-13.00	-26.33	H
7630.01	-32.66	11.50	22.20	-43.36	-13.00	-30.36	H
3815.60	-35.82	12.60	12.93	-36.15	-13.00	-23.15	V
5722.30	-34.87	13.10	17.11	-38.88	-13.00	-25.88	V
7629.93	-32.47	11.50	22.20	-43.17	-13.00	-30.17	V





HSDPA Band II: (30-20000)MHz							
The Worst Test Results for Channel 9262/1852.4MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
3704.34	-33.52	12.60	12.93	-33.85	-13.00	-20.85	H
5557.19	-34.91	13.10	17.11	-38.92	-13.00	-25.92	H
7409.55	-32.45	11.50	22.20	-43.15	-13.00	-30.15	H
3704.13	-34.71	12.60	12.93	-35.04	-13.00	-22.04	V
5557.19	-34.60	13.10	17.11	-38.61	-13.00	-25.61	V
7409.75	-31.76	11.50	22.20	-42.46	-13.00	-29.46	V
The Worst Test Results for Channel 9400/1880MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
3759.98	-34.35	12.60	12.93	-34.68	-13.00	-21.68	H
5640.06	-35.16	13.10	17.11	-39.17	-13.00	-26.17	H
7519.89	-32.55	11.50	22.20	-43.25	-13.00	-30.25	H
3760.02	-34.64	12.60	12.93	-34.97	-13.00	-21.97	V
5640.31	-34.88	13.10	17.11	-38.89	-13.00	-25.89	V
7520.17	-32.92	11.50	22.20	-43.62	-13.00	-30.62	V
The Worst Test Results for Channel 9538/1907.6MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	( dBm )	(dBm)	
3815.64	-34.29	12.60	12.93	-34.62	-13.00	-21.62	H
5722.06	-34.67	13.10	17.11	-38.68	-13.00	-25.68	H
7630.19	-33.06	11.50	22.20	-43.76	-13.00	-30.76	H
3815.69	-35.26	12.60	12.93	-35.59	-13.00	-22.59	V
5722.32	-34.54	13.10	17.11	-38.55	-13.00	-25.55	V
7630.15	-32.83	11.50	22.20	-43.53	-13.00	-30.53	V



#### APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※END OF THE REPORT※※※※

