RADIO TEST REPORT

Report No: 1707091W01

Issued for

Sun Cupid Technology (HK) Ltd.

16/F, CEO Tower, 77 Wing Hong St, Cheung Sha Wan, Kowloon, Hong Kong

Product Name:	Tablet PC
Brand Name:	NUU
Model Name:	T2
Series Model:	N/A
FCC ID:	2ADINNUUT2
Test Standard:	FCC Part 22H and 24E

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TEST RESULT CERTIFICATION

Applicant's name:	Sun Cupid Technology (HK) Ltd.
Address:	16/F, CEO Tower, 77 Wing Hong St, Cheung Sha Wan, Kowloon, Hong Kong
Manufacture's Name	Sun Cupid Technology (HK) Ltd.
Address:	16/F, CEO Tower, 77 Wing Hong St, Cheung Sha Wan, Kowloon, Hong Kong
Product name:	Tablet PC
Brand name:	NUU
Model and/or type reference:	T2
Standards:	FCC Part 22H and 24E
Test procedure	ANSI/TIA 603-D (2010)
under test (EUT) is in compliant sample identified in the report. This report shall not be reprodu	as been tested by BZT and the test results show that the equipment ce with the FCC requirements. And it is applicable only to the tested aced except in full, without the written approval of BZT, this document T, personal only, and shall be noted in the revision of the document
Date of performance of tests	21 June. 2017~25 June. 2017
Date of Issue	26 June. 2017
Test Result	Pass
Testing Engir	neer: Seun She (Sean she)

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(Hakim.hou) Authorized Signatory:

Technical Manager :

(Vita Li)

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	26 June. 2017	1707091W01	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 ANSI/TIA-603-D: 2010,KDB 971168 D01 v02r02 and KDB 648474 D03 v01r04

FCC Rules	Test Description	Test Limit	Test Result	Reference
2.1049	Conducted OutputPower	Reporting Only	PASS	
2.0146 24.232	Peak-to-AverageRatio	< 13 dB	PASS	
2.1046	Effective Radiated Pow-	< 7 Watts max. ERP(Part 22)		
22.913	er/Equivalent Isotropic	< 2 Watts max. EIRP(Part 24)	PASS	
24.232	Radiated Power			
2.1049				
22.917	Occupied Bandwidth	Reporting Only	PASS	
24.238				
2.1055		< 2.5 ppm (Part 22)		
22.355	Frequency Stability	Emission must remain in band	PASS	
24.235		(Part 24)		
2.1051	Spurious Emission at			
22.917	Antenna Terminals	< 43+10log10(P[Watts])	PASS	
24.238	Antenna reminais			
2.1053	Field Ctropath of Court			
22.917	Field Strength of Spurious	< 43+10log10(P[Watts])	PASS	
24.238	Radiation			
2.1051				
22.917	Band Edge	< 43+10log10(P[Watts])	PASS	
24.238				

1 INTRODUCTION

1.1 TEST FACTORY

BZT Testing Technology Co., Ltd.

Add.: Buliding 17, Xinghua Road Xingwei industrial Park Fuyong,

Baoan District, Shenzhen, Guangdong, China

FCC Registration No.: 701733

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 UCISPR 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 power,conducted	±0.71dB
2	Spurious emissions,conducted	±0.63dB
5	All emissions,radiated(<1G) 30MHz-200MHz	±3.80dB
6	All emissions,radiated(<1G) 200MHz-1000MHz	±3.97dB
7	All emissions,radiated(>1G)	±3.03dB

Product Designation:	Tablet PC
Hardware version number:	RC-K706
Software version number:	K706A.M.V10.8.WH-V01.2089
FCC ID:	2ADINNUUT2
	GSM/GPRS/EDGE:
	850: 824.2 MHz ~ 848.8 MHz
Ty Fraguency	1900: 1850.2 MHz ~ 1909.8MHz
Tx Frequency:	WCDMA:
	Band V: 826.4 MHz ~ 846.6 MHz
	Band II: 1852.4 MHz ~ 1907.6 MHz
	GSM/GPRS/EDGE:
	850: 869.2 MHz ~ 893.8 MHz
Rx Frequency:	1900: 1930.2 MHz ~ 1989.8 MHz
TXT requericy.	WCDMA:
	Band V: 871.4 MHz ~ 891.6 MHz
	Band II: 1932.4 MHz ~ 1987.6 MHz
Max RF Output Power:	GSM850:33.32dBm, PCS1900:30.28dBm GPRS850(1-Slot):33.29dBm, GPRS1900(1-Slot):30.26dBm GPRS850(2-Slot):32.85dBm, GPRS1900(2-Slot):29.85dBm GPRS850(3-Slot):31.45dBm, GPRS1900(3-Slot):28.36dBm GPRS850(4-Slot):31.00dBm, GPRS1900(4-Slot):27.90dBm EDGE 850(1-Slot):33.27dBm, EDGE 1900(1-Slot):30.24dBm EDGE 850(2-Slot):32.59dBm, EDGE 1900(2-Slot):29.56dBm EDGE 850(3-Slot):31.10dBm, EDGE 1900(3-Slot):28.14dBm EDGE 850(4-Slot):30.64dBm, EDGE 1900(4-Slot):27.70dBm WCDMABand V:24.19dBm, WCDMA Band II:22.51dBm
Type of Emission:	GSM(850): 319KGXW; GSM(1900): 321KGXW GPRS(850): 321KG7W; GPRS(1900): 318KG7W EDGE (850): 323KG7W; EDGE (1900): 320KG7W WCDMA850: 4M69F9W WCDMA1900: 4M95F9W
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
Antenna gain:	GSM/WCDMA:0.5dBi
Power Supply:	DC 3.7V by battery
Battery parameter:	Capacity: 2500mAh, Rated Voltage: 3.7V, Charge Limit: 4.2V
Adapter:	Input: AC 100-240V, 50/60Hz, 400mA Output: DC 5V, 1500mA
GPRS/EDGE Class:	Multi-Class12

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Extreme Vol. Limits:	DC3.4 V to 4.2V (Nominal DC3.7V)	
Extreme Temp. Tolerance:	-30°C to +50°C	
** Note: The High Voltage 4.2V and Low Voltage 3.4 V was declared by manufacturer, The EUT		

^{**} Note: The High Voltage 4.2V and Low Voltage 3.4 V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.

3 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. 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:

	TEST MODES		
BAND	RADIATED TCS	CONDUCTED TCS	
GSM 850	GSM LINK GPRS/ EDGE CLASS 12 LINK	GSM LINK GPRS/ EDGE CLASS 12 LINK	
GSM 1900	GSM LINK GPRS/ EDGE CLASS 12 LINK	GSM 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

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibra- tion	Calibrated Until
EMI Test Receiver	R&S	ESW	101535	2017.06.01	2018.05.31
Signal Analyzer	Agilent	N9020A	MY49100060	2017.03.11	2018.03.10
Test Receiver	R&S	ESCI	101427	2016.10.23	2017.10.22
Universal Radio Communication Tester	R&S	CMW500	117239	2016.10.23	2017.10.22
Bilog Antenna	TESEQ	CBL6111D	34678	2017.03.24	2018.03.23
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1343	2017.03.06	2018.03.05
SHF-EHF Horn Antenna (15G-40GHz)	BBHA 9170	SCHWARZBECK	BBHA9170367	2017.05.02	2018.05.01
Low frequency cable	EM	R01	N/A	2017.03.12	2018.03.11
Low frequency cable	EM	R06	N/A	2017.03.12	2018.03.11
High frequency cable	SCHWARZBECK	R04	N/A	2017.03.12	2018.03.11
High frequency cable	SCHWARZBECK	R02	N/A	2017.03.12	2018.03.11
Vector signal generator	Agilent	E8257D-521	MY45141029	2016.10.23	2017.10.22
Pre-mplifier (0.1M-3GHz)	EM	EM330	60538	2017.03.12	2018.03.11
PreAmplifier (1G-26.5GHz)	Agilent	8449B	60538	2016.10.23	2017.10.22
Pre-mplifier (18G-40G)	MINI-CIRCUITS	AP-040G	1382501	2017.05.15	2018.05.14
Band Reject fil- ter(1920-1980MHz)	COM-MW	ZBSF-1920-1980	0092	2016.10.23	2017.10.22
Band Reject fil- ter(880-915MHz)	COM-MW	ZBSF-C897.5-35	707	2016.10.23	2017.10.22
Band Reject fil- ter(1710-1785MHz)	COM-MW	ZBSF-C1747.5-75	708	2016.10.23	2017.10.22
Band Reject fil- ter(1850-1910MHz)	COM-MW	ZBSF-C1880-60	709	2016.10.23	2017.10.22
Band Reject fil- ter(2500-2570MHz)	COM-MW	ZBSF-C2535-70	710	2016.10.23	2017.10.22
Highpass Filter	WHKX7.0/18G-8SS	Wainwright	18	2016.10.23	2017.10.22
trun table	EM	SC100_1	60531	N/A	N/A
Antnna mast	EM	SC100	N/A	N/A	N/A

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

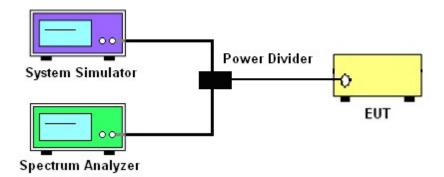
TEST OVERVIEW

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 fcckdb 971168 v02r02 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/TIA-603-D-2010 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 D01 Section 5.2.1. (for CDMA/WCDMA), Section 5.2.2 (for GSM/GPRS) and ANSI / TIA-603-D-2010 Section 2.2.17.
- 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 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 PMe as, typically dBW or dBm);

PMeas(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.

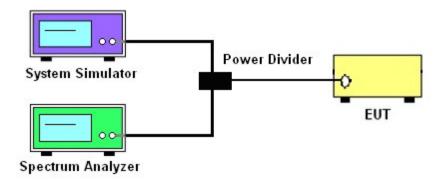
The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) 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 ≥ 3 x 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/TIA-603-D-2010. The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is varied from -30°C to +50°C in 10°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 ±0.00025% (±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

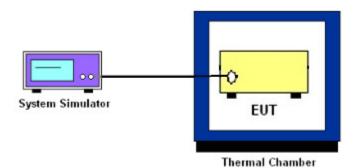
Temperature Variation

- 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°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°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

Voltage Variation

- 1. The testing follows FCC KDB 971168 D01 Section 9.0.
- 2. The EUT was placed in a temperature chamber at 25±5° 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

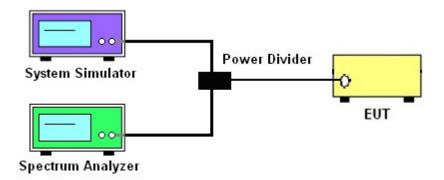
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

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 v02r02 Section 6.0. and ANSI/TIA-603-D-2010-Section 2.2.13.2(d)
- 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 + 10log(P) dB below the transmitter power P(Watts)
- = P(W) [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm.

Test Setup



5.7 BAND EDGE

OVERVIEW

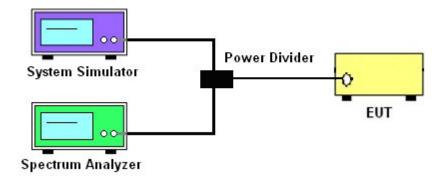
All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated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

The minimum permissible attenuation level of any spurious emission is 43 + log10(P[Watts]), where P is the transmitter power in Watts.

TEST PROCEDURE

- 1.The testing FCC KDB 971168 D01 v02r02 Section 6.0. and ANSI/TIA-603-D-2010-Section 2.2.13.2(d)
- 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(W) [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm.

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/TIA-603-D-2010 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 isoperating 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/TIA-603-D-2010-Section 2.2.12.2(b)
- 2. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
- 3. VBW \geq 3 x RBW
- 4. Span = 1.5 times the OBW
- 5.No. of sweep points > 2 x 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 PMeas, t ypically dBW or dBm);

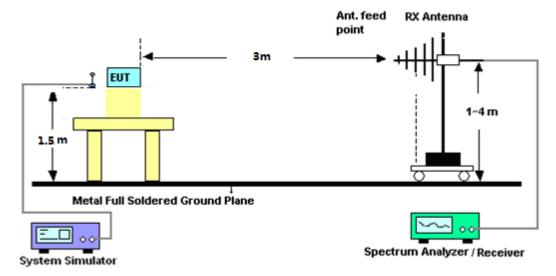
P.SG = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

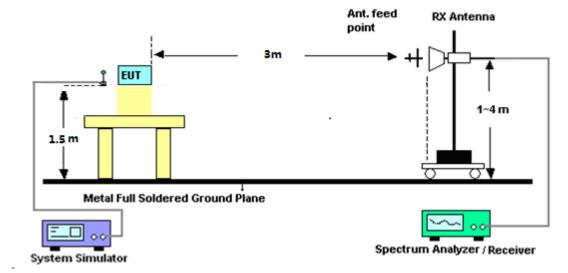
LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

TEST SETUP

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



APPENDIX ATESTRESULT A1CONDUCTED OUTPUT POWER GSM 850:

Mode	Frequency (MHz)	AVG Power(dBm)
	824.2	33.32
GSM	836.6	33.28
	848.8	33.26
	824.2	33.29
GPRS(GMSK,1-Slot)	836.6	33.26
	848.8	33.25
	824.2	32.82
GPRS(GMSK,2-Slot)	836.6	32.85
	848.8	32.84
	824.2	31.37
GPRS(GMSK,3-Slot)	836.6	31.45
	848.8	31.36
	824.2	30.87
GPRS(GMSK,4-Slot)	836.6	31.00
	848.8	30.95
	824.2	33.27
EGPRS(GMSK,1-Slot)	836.6	33.24
	848.8	33.23
	824.2	32.59
EGPRS(GMSK,2-Slot)	836.6	32.47
	848.8	32.45
	824.2	31.10
EGPRS(GMSK,3-Slot)	836.6	31.10
	848.8	31.02
	824.2	30.61
EGPRS(GMSK,4-Slot)	836.6	30.62
	848.8	30.64

PCS 1900:

Mode	Frequency	AVG Power(dBm)	
Widde	(MHz)	Avg Fower(ubili)	
	1850.2	30.28	
GSM	1880.0	30.12	
	1909.8	30.18	
	1850.2	30.26	
GPRS(GMSK,1-Slot)	1880.0	30.1	
	1909.8	30.16	
	1850.2	29.85	
GPRS(GMSK,2-Slot)	1880.0	29.70	
	1909.8	29.73	
	1850.2	28.36	
GPRS(GMSK,3-Slot)	1880.0	28.21	
	1909.8	28.31	
	1850.2	27.90	
GPRS(GMSK,4-Slot)	1880.0	27.76	
	1909.8	27.81	
	1850.2	30.24	
EGPRS(GMSK,1-Slot)	1880.0	30.08	
	1909.8	30.14	
	1850.2	29.56	
EGPRS(GMSK,2-Slot)	1880.0	29.37	
	1909.8	29.39	
	1850.2	28.14	
EGPRS(GMSK,3-Slot)	1880.0	27.86	
	1909.8	28.00	
	1850.2	27.70	
EGPRS(GMSK,4-Slot)	1880.0	27.39	
	1909.8	27.42	

UMTS BAND V

Mode	Frequency(MHz)	AVG Power
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	826.4	24.18
WCDMA 850 RMC	836.6	24.12
KIVIC	846.6	24.19
110004	826.4	24.16
HSDPA Subtest 1	836.6	24.10
Sublest	846.6	24.17
11000	826.4	23.72
HSDPA Subtest 2	836.6	23.64
Sublest 2	846.6	23.76
11000	826.4	23.26
HSDPA Subtest 3	836.6	23.19
Sublest 5	846.6	23.40
110004	826.4	22.86
HSDPA Subtest 4	836.6	22.87
Sublest 4	846.6	23.09
1101104	826.4	24.06
HSUPA Subtest 1	836.6	24.01
Sublest	846.6	23.76
	826.4	23.12
HSUPA Subtest 2	836.6	23.06
Sublest 2	846.6	22.85
	826.4	23.09
HSUPA	836.6	22.57
Subtest 3	846.6	22.47
11011254	826.4	22.71
HSUPA	836.6	22.10
Subtest 4	846.6	22.07
110115	826.4	21.27
HSUPA	836.6	20.68
Subtest 5	846.6	20.59

UMTS BAND II

Mode	Frequency(MHz)	AVG Power
WODIA 4000	1852.4	22.51
WCDMA 1900 RMC	1880	22.42
KWC	1907.6	22.48
LIODDA	1852.4	22.49
HSDPA Subtest 1	1880	22.40
Subtest 1	1907.6	22.46
LICDDA	1852.4	22.02
HSDPA Subtest 2	1880	21.93
Sublest 2	1907.6	22.01
LICDDA	1852.4	21.69
HSDPA Subtest 3	1880	21.46
Sublest 3	1907.6	21.53
LIODDA	1852.4	21.20
HSDPA Subtest 4	1880	20.99
Sublest 4	1907.6	21.21
LIGUIDA	1852.4	22.44
HSUPA Subtest 1	1880	22.40
Sublest 1	1907.6	22.03
LIGUIDA	1852.4	21.51
HSUPA Subtest 2	1880	21.41
Sublest 2	1907.6	21.07
LIGUIDA	1852.4	21.33
HSUPA Subtest 3	1880	20.93
วนมเ <i>ย</i> รเ ว	1907.6	20.59
LIGUEA	1852.4	20.85
HSUPA Subtest 4	1880	20.49
อนมเ ย ร์เ 4	1907.6	20.11
1101104	1852.4	19.42
HSUPA	1880	19.08
Subtest 5	1907.6	18.65

A2 PEAK-TO-AVERAGE RADIO

Mada	Frequency	PEAK Power	AVG Power	PAR
Mode	(MHz)	(dBm)	(dBm)	(dB)
	824.2	33.43	33.32	0.11
GSM850	836.6	33.39	33.28	0.11
	848.8	33.37	33.26	0.11
	824.2	33.39	33.29	0.10
GPRS850	836.6	33.37	33.26	0.11
	848.8	33.36	33.25	0.11
	824.2	33.38	33.27	0.11
EDGE850	836.6	33.35	33.24	0.11
	848.8	33.35	33.23	0.12
	1850.2	30.39	30.28	0.11
PCS1900	1880	30.23	30.12	0.11
	1909.8	30.30	30.18	0.12
	1850.2	30.37	30.26	0.11
GPRS1900	1880	30.22	30.10	0.12
	1909.8	30.27	30.16	0.11
	1850.2	30.35	30.24	0.11
EDGE1900	1880	30.19	30.08	0.11
	1909.8	30.26	30.14	0.12

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	Frequency	PEAK Power	AVG Power	PAR
Mode	(MHz)	(dBm)	(dBm)	(dB)
	826.4	26.76	24.18	2.58
WCDMA 850 RMC	836.6	26.72	24.12	2.60
	846.6	27.10	24.19	2.91
	826.4	26.73	24.16	2.57
HSDPA 850	836.6	26.96	24.10	2.86
	846.6	26.82	24.17	2.65
	826.4	26.83	24.06	2.77
HSUPA 850	836.6	26.74	24.01	2.73
	846.6	26.28	23.76	2.52
	1852.4	25.42	22.51	2.91
WCDMA 1900 RMC	1880	25.13	22.42	2.71
	1907.6	25.17	22.48	2.69
	1852.4	25.12	22.49	2.63
HSDPA 1900	1880	25.32	22.40	2.92
	1907.6	25.16	22.46	2.70
	1852.4	25.05	22.44	2.61
HSUPA 1900	1880	25.39	22.40	2.99
	1907.6	24.55	22.03	2.52

A3 TRANSMITTER RADIATED POWER (EIRP/ERP)

Radiated Power (ERP) for GSM 850 MHZ							
Mode	Frequency	S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	Conclusion
	824.2	24.99	0.44	6.5	31.05	Horizontal	Pass
	824.2	26.75	0.44	6.5	32.81	Vertical	Pass
GSM850	836.6	24.72	0.45	6.5	30.77	Horizontal	Pass
GSIVIOSU	836.6	26.70	0.45	6.5	32.75	Vertical	Pass
	848.8	24.80	0.46	6.5	30.84	Horizontal	Pass
	848.8	26.69	0.46	6.5	32.73	Vertical	Pass
	824.2	24.89	0.44	6.5	30.95	Horizontal	Pass
	824.2	26.50	0.44	6.5	32.56	Vertical	Pass
GPRS850	836.6	24.73	0.45	6.5	30.78	Horizontal	Pass
GPRS650	836.6	26.51	0.45	6.5	32.56	Vertical	Pass
	848.8	24.94	0.46	6.5	30.98	Horizontal	Pass
	848.8	26.44	0.46	6.5	32.48	Vertical	Pass
	824.2	24.82	0.44	6.5	30.88	Horizontal	Pass
	824.2	26.47	0.44	6.5	32.53	Vertical	Pass
EDGE850	836.6	24.81	0.45	6.5	30.86	Horizontal	Pass
EDGE000	836.6	26.56	0.45	6.5	32.61	Vertical	Pass
	848.8	24.95	0.46	6.5	30.99	Horizontal	Pass
	848.8	26.64	0.46	6.5	32.68	Vertical	Pass

Radiated Power (EIRP) for PCS 1900 MHZ							
Mode	Frequency	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
		(dBm)	loss	(dBi)	E.I.R.P.(dBm)	Of Max.EIRP.	
	1850.2	19.82	2.41	10.35	27.76	Horizontal	Pass
	1850.2	21.81	2.41	10.35	29.75	Vertical	Pass
PCS1900	1880	19.77	2.42	10.35	27.70	Horizontal	Pass
PC31900	1880	21.63	2.42	10.35	29.56	Vertical	Pass
	1909.8	19.78	2.43	10.35	27.70	Horizontal	Pass
	1909.8	21.67	2.43	10.35	29.59	Vertical	Pass
	1850.2	19.98	2.41	10.35	27.92	Horizontal	Pass
	1850.2	21.76	2.41	10.35	29.70	Vertical	Pass
GPRS1900	1880	19.82	2.42	10.35	27.75	Horizontal	Pass
GPR31900	1880	21.4	2.42	10.35	29.33	Vertical	Pass
	1909.8	19.88	2.43	10.35	27.8	Horizontal	Pass
	1909.8	21.44	2.43	10.35	29.36	Vertical	Pass
	1850.2	19.95	2.41	10.35	27.89	Horizontal	Pass
	1850.2	21.55	2.41	10.35	29.49	Vertical	Pass
EDGE1900	1880	19.78	2.42	10.35	27.71	Horizontal	Pass
EDGE 1900	1880	21.5	2.42	10.35	29.43	Vertical	Pass
	1909.8	19.92	2.43	10.35	27.84	Horizontal	Pass
	1909.8	21.39	2.43	10.35	29.31	Vertical	Pass

Radiated Power (ERP) for WCDMA Band V							
Mode	Frequency	S G.Level	Cable	Gain	PMeas E.R.P	Polarization	Conclusion
		(dBm)	loss	(dBi)	(dBm)	Of Max.ERP	
	826.4	15.66	0.44	6.5	21.72	Horizontal	Pass
	826.4	17.61	0.44	6.5	23.67	Vertical	Pass
Band V	836.6	15.78	0.45	6.5	21.83	Horizontal	Pass
Danu v	836.6	17.64	0.45	6.5	23.69	Vertical	Pass
	846.4	15.76	0.46	6.5	21.80	Horizontal	Pass
	846.4	17.64	0.46	6.5	23.68	Vertical	Pass

Radiated Power (EIRP) for WCDMA Band II							
Mode	Frequency	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
		(dBm)	loss	(dBi)	E.I.R.P.(dBm)	Of Max.EIRP	
	1852.4	12.14	2.41	10.35	20.08	Horizontal	Pass
	1852.4	14.05	2.41	10.35	21.99	Vertical	Pass
Band II	1880	12.19	2.42	10.35	20.12	Horizontal	Pass
Danu II	1880	13.98	2.42	10.35	21.91	Vertical	Pass
	1907.4	12.1	2.43	10.35	20.02	Horizontal	Pass
	1907.4	14.03	2.43	10.35	21.95	Vertical	Pass

A4 OCCUPIED BANDWIDTH(99% OCCUPIED BANDWIDTH/26DB BANDWIDTH)

Occupied Bandwidth for GSM 850 band							
Mode	Frequency(MHz)	Occupied Bandwidth	Emission Bandwidth				
		(99%)(kHz)	(-26dBc)(kHz)				
Low Channel	824.2	246.68	313.6				
Middle Channel	836.6	245.14	319.0				
High Channel	848.8	249.68	314.8				
	Occupied Bandwidth for GPRS 850 band						
Mode	Frequency(MHz)	Occupied Bandwidth	Emission Bandwidth				
Mode		(99%)(kHz)	(-26dBc)(kHz)				
Low Channel	824.2	245.61	315.9				
Middle Channel	836.6	248.94	320.7				
High Channel	848.8	246.22	313.8				
	Occupied Band	width for EDGE 850 band					
Mode	Fragues av (MHz)	Occupied Bandwidth	Emission Bandwidth				
Mode	Frequency(MHz)	(99%)(kHz)	(-26dBc)(kHz)				
Low Channel	824.2	248.23	323.1				
Middle Channel	836.6	246.26	315.5				
High Channel	848.8	243.39	310.7				

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Occupied Bandwidth for GSM1900 band							
Mode	Frequency(MHz)	Occupied Bandwidth	Emission Bandwidth				
Wode	Frequency(MHz)	(99%)(kHz)	(-26dBc)(kHz)				
Low Channel	1850.2	248.23	320.4				
Middle Channel	1880.0	244.14	320.9				
High Channel	1909.8	245.28	312.4				
	Occupied Bandwidth for GPRS 1900 band						
Mode	Frequency(MHz)	Occupied Bandwidth	Emission Bandwidth				
iviode		(99%)(kHz)	(-26dBc)(kHz)				
Low Channel	1850.2	247.13	316.9				
Middle Channel	1880.0	247.69	317.9				
High Channel	1909.8	247.91	314.8				
	Occupied Bandy	width for EDGE 1900 band					
Mode	Fraguenov(MHz)	Occupied Bandwidth	Emission Bandwidth				
Mode	Frequency(MHz)	(99%)(kHz)	(-26dBc)(kHz)				
Low Channel	1850.2	245.73	319.6				
Middle Channel	1880.0	247.47	317.8				
High Channel	1909.8	247.36	318.6				

Occupied Bandwidth for UMTS band V			
Mode	Frequency(MHz)	Occupied Bandwidth	Emission Bandwidth
		(99%)(MHz)	(-26dBc)(MHz)
Low Channel	826.4	4.1572	4.664
Middle Channel	836.6	4.1653	4.686
High Channel	846.6	4.1538	4.677
Occupied Bandwidth for UMTS band II			
Mode	Frequency(MHz)	Occupied Bandwidth	Emission Bandwidth
		(99%)(MHz)	(-26dBc)(MHz)
Low Channel	1852.4	4.1854	4.749
Middle Channel	1880	4.1660	4.714
High Channel	1907.6	4.2049	4.954

GSM 850 CH 128



GSM 850 CH 190



GSM 850 CH 251



GPRS 850 CH 128



GPRS 850 CH 190



GPRS 850 CH 251



EDGE 850 CH 128



EDGE 850 CH 190



EDGE 850 CH 251



PCS 1900 CH 512



PCS 1900 CH 661



PCS 1900 CH 810



GPRS 1900 CH 512



GPRS 1900 CH 661



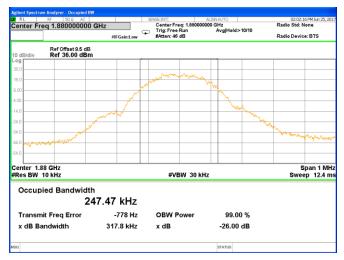
GPRS 1900 CH 810



EDGE 1900 CH 512



EDGE 1900 CH 661



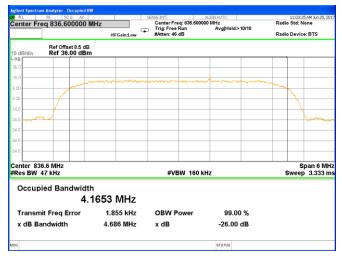
EDGE 1900 CH 810



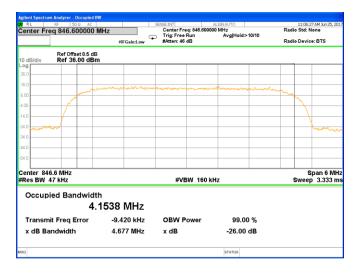
UMTS BAND V CH 4132



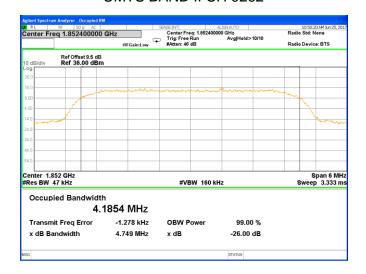
UMTS BAND V CH 4183



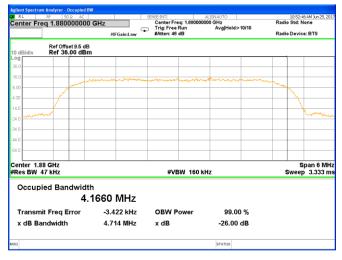
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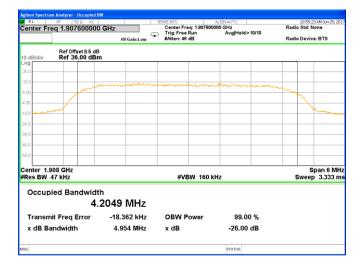
UMTS BAND II CH 9262



UMTS BAND II CH 9400



UMTS BAND II CH 9538



A5 FREQUENCY STABILITY Normal Voltage = 3.7V.; Battery End Point (BEP) = 3.4 V.; Maximum Voltage = 4.2 V.

	GSM 850 Middle Channel/836.6MHz									
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Limit	Result						
50		16.88	0.020							
40		33.04	0.039							
30		29.48	0.035							
20		14.85	0.018							
10	Normal Voltage	15.33	0.018							
0		21.26	0.025	2.5ppm	PASS					
-10		29.58	0.035							
-20		31.11	0.037							
-30		14.24	0.017							
25	Maximum Voltage	15.56	0.019							
25	BEP	21.19	0.025							

GPRS 850 Middle Channel/836.6MHz									
Temperature (°C)	Voltage (Volt)	Limit	Result						
50		15.46	0.018						
40		14.44	0.017						
30		19.67	0.024		PASS				
20		22.42	0.027						
10	Normal Voltage	17.60	0.021						
0		28.25	0.034	2.5ppm					
-10		26.90	0.032						
-20		30.05	0.036						
-30		22.65	0.027						
25	Maximum Voltage	34.94	0.042						
25	BEP	14.26	0.017						

EDGE 850 Middle Channel/836.6MHz									
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result				
50		16.26	0.019						
40		29.16	0.035		PASS				
30		28.93	0.035						
20		16.50	0.020	Within Au-					
10	Normal Voltage	30.59	0.037						
0		31.99	0.038	thorized					
-10		33.69	0.040	Band					
-20		22.98	0.027						
-30		26.14	0.031						
25	Maximum Voltage	18.86	0.023]					
25	BEP	19.81	0.024	7					

GSM 1900 Middle Channel/1880MHz										
Temperature (°C)	Voltage (Volt)	Freq. Dev. (ppm)	Limit	Result						
50		31.02	0.017							
40		26.98	0.014							
30		28.91	0.015							
20		33.34	0.018							
10	Normal Voltage	31.22	0.017	Within						
0		29.08	0.015	Authorized	PASS					
-10		31.84	0.017	Band						
-20		17.51	0.009							
-30		12.57	0.007							
25	Maximum Voltage	26.68	0.014							
25	BEP	19.23	0.010							

	GPRS 1900 Middle Channel/1880MHz										
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result						
50		15.96	0.008								
40		34.57	0.018								
30		12.66	0.007								
20		23.24	0.012								
10	Normal Voltage	25.46	0.014	Within							
0		28.01	0.015	Authorized	PASS						
-10		24.79	0.013	Band							
-20		23.34	0.012								
-30		13.68	0.007								
25	Maximum Voltage	24.86	0.013								
25	BEP	24.98	0.013								

EDGE 1900 Middle Channel/1880MHz									
Temperature (°C)	Voltage (Volt)	Freq. Dev. Freq. De (Hz) (ppm)		Limit	Result				
50		23.27	0.012						
40		17.13	0.009		PASS				
30		23.82	0.013						
20		22.43	0.012	Within Au-					
10	Normal Voltage	31.66	0.017						
0		27.95	0.015						
-10		19.60	0.010	Band					
-20		17.46	0.009						
-30		23.98	0.013	1					
25	Maximum Voltage	25.09	0.013						
25	BEP	12.42	0.007						

	WCDMA V Middle Channel/836.6MHz									
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result					
50		31.89	0.038							
40		25.34	0.030							
30		21.95	0.026		PASS					
20		30.35	0.036							
10	Normal Voltage	25.02	0.030							
0		23.40	0.028	2.5ppm						
-10		32.85	0.039							
-20		13.18	0.016							
-30		29.21	0.035							
25	Maximum Voltage	21.82	0.026							
25	BEP	15.97	0.019							

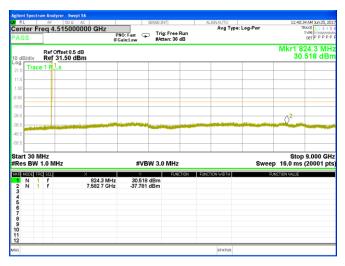
1. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

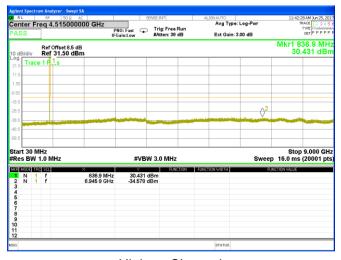
WCDMA II Middle Channel/1880MHz									
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result				
50		20.27	0.011						
40		19.42	0.010						
30		25.31	0.013						
20		15.34	0.008						
10	Normal Voltage	30.59	0.016	Within Au-					
0		30.51	0.016	thorized	PASS				
-10		27.83	0.015	Band					
-20		23.69	0.013						
-30		30.60	0.016						
25	Maximum Voltage	12.95	0.007						
25	BEP	31.54	0.017						

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

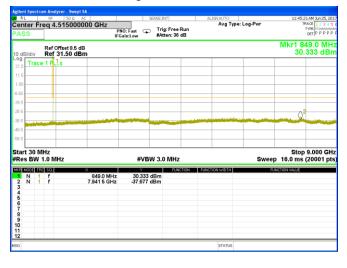
A6 SPURIOUS EMISSIONS AT ANTENNA TERMINALS GSM 850 BAND

Lowest Channel



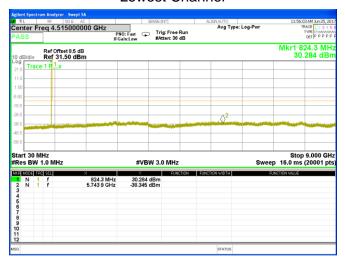


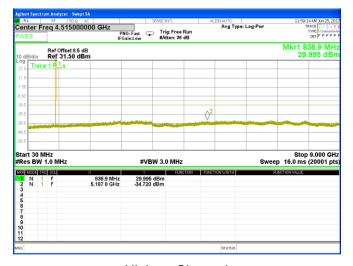
Highest Channel



GPRS 850 BAND

Lowest Channel



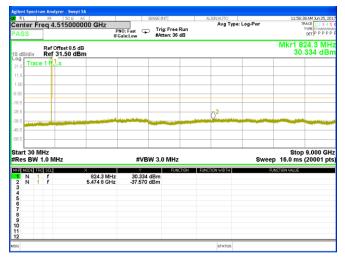


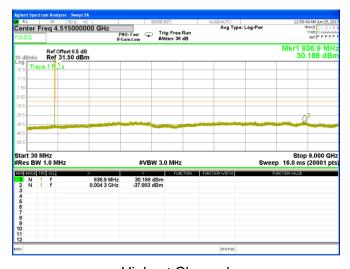
Highest Channel



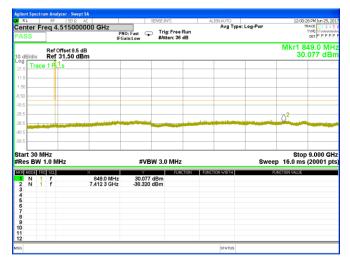
EDGE 850 BAND

Lowest Channel



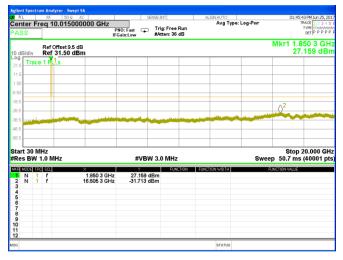


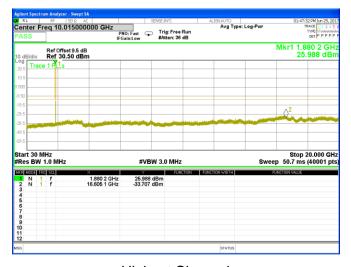
Highest Channel



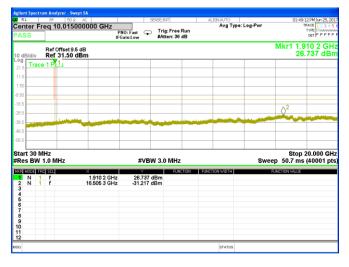
GSM1900 BAND(30M-20G)

Lowest Channel



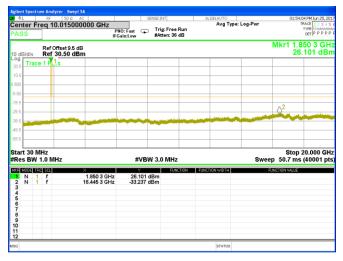


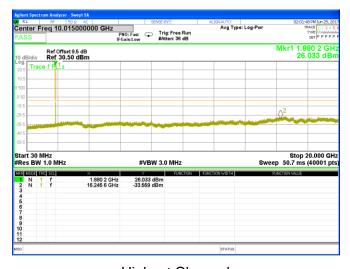
Highest Channel



GPRS1900 BAND(30M-20G)

Lowest Channel



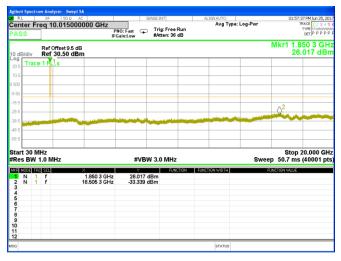


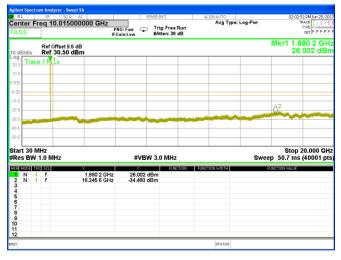
Highest Channel



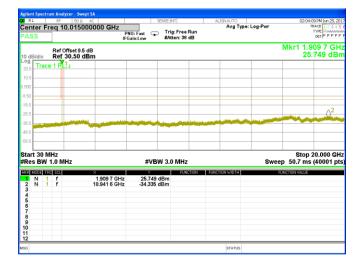
EDGE 1900 BAND(30M-20G)

Lowest Channel



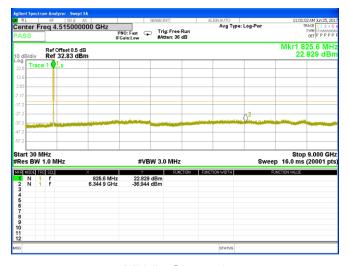


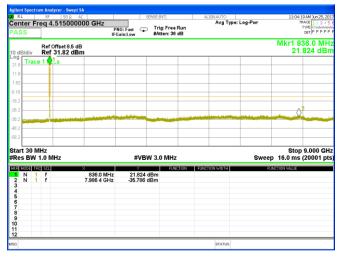
Highest Channel



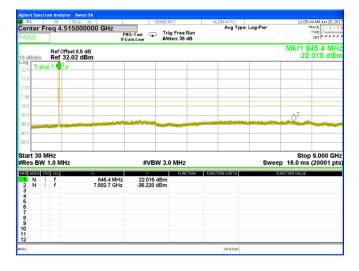
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel



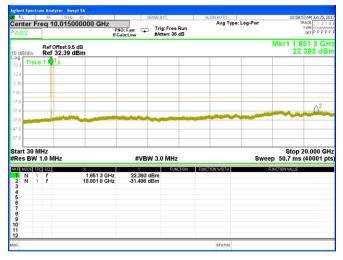


Highest Channel

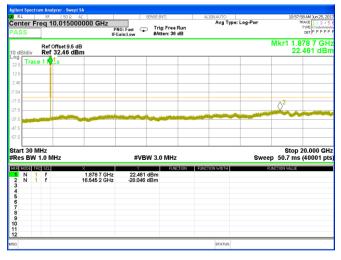


WCDMA Band II (RMC 12.2Kbps)(30M-20G)

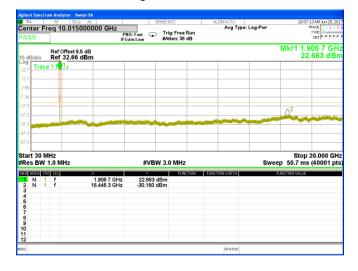
Lowest Channel



Middle Channel



Highest Channel



A7 BAND EDGE

GSM 850

Lowest Band Edge





GPRS 850





EDGE 850





GSM 1900





GPRS 1900





EDGE 1900

Lowest Band Edge





WCDMA Band VRMC 12.2Kbps

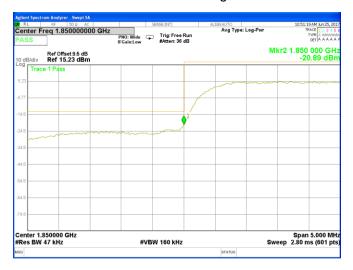
Lowest Band Edge





WCDMA Band IIRMC 12.2Kbps

Lowest Band Edge





A8 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT GSM 850: (30-9000)MHz

IVI 650. (50-9000)IVII	-	GSM	850: (30-9	000)MHz				
	The Worst Test Results Channel 128/824.2 MHz							
_	S G.Lev			PMea	Limit	Margin		
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity	
1648.19	-41.13	9.40	4.75	-36.48	-13.00	-23.48	Н	
2472.65	-40.64	10.60	8.39	-38.43	-13.00	-25.43	Н	
3296.91	-31.47	12.00	11.79	-31.26	-13.00	-18.26	Н	
1648.40	-43.85	9.40	4.75	-39.20	-13.00	-26.20	V	
2472.57	-45.30	10.60	8.39	-43.09	-13.00	-30.09	V	
3296.70	-43.67	12.00	11.79	-43.46	-13.00	-30.46	V	
	The W	orst Test R	esults Ch	annel 190/	836.6 MHz			
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity	
r requericy(ivii iz)	(dBm)	Ant(ubi)	(dBm)	(dBm)	(dB)	Folanty		
1673.09	-40.30	9.50	4.76	-35.56	-13.00	-22.56	Н	
2509.64	-40.19	10.70	8.40	-37.89	-13.00	-24.89	Н	
3346.32	-31.78	12.20	11.80	-31.38	-13.00	-18.38	Н	
1673.01	-44.40	9.40	4.75	-39.75	-13.00	-26.75	V	
2509.48	-44.06	10.60	8.39	-41.85	-13.00	-28.85	V	
3346.20	-43.67	12.20	11.82	-43.29	-13.00	-30.29	V	
	The W	orst Test R	esults Ch	annel 251/	848.8 MHz			
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity	
r requericy(ivii iz)	(dBm)	Ant(ubi)	L055	(dBm)	(dBm)	(dB)	Folanty	
1697.24	-40.51	9.60	4.77	-35.68	-13.00	-22.68	Н	
2546.20	-39.51	10.80	8.50	-37.21	-13.00	-24.21	Н	
3395.08	-31.64	12.50	11.90	-31.04	-13.00	-18.04	Н	
1697.24	-44.28	9.60	4.77	-39.45	-13.00	-26.45	V	
2546.08	-45.00	10.80	8.50	-42.70	-13.00	-29.70	V	
3395.09	-43.46	12.50	11.90	-42.86	-13.00	-29.86	V	

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 has.

GPRS 850: (30-9000)MHz

RS 850: (30-9000)II		GPRS	850: (30-9	0000\MHz					
	The Worst Test Results Channel 128/824.2 MHz								
	S G.Lev			PMea	Limit	Margin			
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity		
1648.39	-40.51	9.40	4.75	-35.86	-13.00	-22.86	Н		
2472.63	-40.33	10.60	8.39	-38.12	-13.00	-25.12	Н		
3296.55	-30.90	12.00	11.79	-30.69	-13.00	-17.69	Н		
1648.11	-43.24	9.40	4.75	-38.59	-13.00	-25.59	V		
2472.26	-45.33	10.60	8.39	-43.12	-13.00	-30.12	V		
3296.43	-43.88	12.00	11.79	-43.67	-13.00	-30.67	V		
	The W	orst Test R	esults Ch	annel 190/	836.6 MHz				
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polority		
Frequency(MHZ)	(dBm)	/ trit(dBi)	L088	(dBm)	(dBm)	(dB)	Polarity		
1673.14	-40.68	9.50	4.76	-35.94	-13.00	-22.94	Н		
2509.68	-39.75	10.70	8.40	-37.45	-13.00	-24.45	Н		
3346.38	-31.29	12.20	11.80	-30.89	-13.00	-17.89	Н		
1673.14	-43.49	9.40	4.75	-38.84	-13.00	-25.84	V		
2509.55	-45.02	10.60	8.39	-42.81	-13.00	-29.81	V		
3346.20	-42.75	12.20	11.82	-42.37	-13.00	-29.37	V		
	The W	orst Test R	esults Ch	annel 251/	848.8 MHz				
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity		
r requericy(ivii iz)	(dBm)	Ant(ubi)	L055	(dBm)	(dBm)	(dB)	Folality		
1697.58	-40.37	9.60	4.77	-35.54	-13.00	-22.54	Н		
2546.51	-39.44	10.80	8.50	-37.14	-13.00	-24.14	Н		
3395.10	-30.99	12.50	11.90	-30.39	-13.00	-17.39	Н		
1697.62	-44.37	9.60	4.77	-39.54	-13.00	-26.54	V		
2546.22	-44.74	10.80	8.50	-42.44	-13.00	-29.44	V		
3394.90	-43.48	12.50	11.90	-42.88	-13.00	-29.88	V		

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 has.

EDGE 850: (30-9000)MHz

3E 850: (30-9000)N		EGPRS	S 850: (30-	9000)MHz			
	The W	orst Test R	•	•	824.2 MHz		
[S G.Lev	A1(ID')	1 -	PMea	Limit	Margin	D-Is it
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity
1648.02	-40.70	9.40	4.75	-36.05	-13.00	-23.05	Н
2472.53	-39.87	10.60	8.39	-37.66	-13.00	-24.66	Н
3296.62	-32.14	12.00	11.79	-31.93	-13.00	-18.93	Н
1648.18	-43.22	9.40	4.75	-38.57	-13.00	-25.57	V
2472.37	-45.39	10.60	8.39	-43.18	-13.00	-30.18	V
3296.53	-43.49	12.00	11.79	-43.28	-13.00	-30.28	V
	The W	orst Test R	esults Ch	annel 190/	836.6 MHz		
Fragues av (MIII-)	S G.Lev	۸ nat/dD:\	Loop	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity
1673.17	-41.58	9.50	4.76	-36.84	-13.00	-23.84	Н
2509.85	-40.18	10.70	8.40	-37.88	-13.00	-24.88	Н
3346.13	-32.35	12.20	11.80	-31.95	-13.00	-18.95	Н
1672.79	-43.66	9.40	4.75	-39.01	-13.00	-26.01	V
2509.64	-44.14	10.60	8.39	-41.93	-13.00	-28.93	V
3346.16	-43.54	12.20	11.82	-43.16	-13.00	-30.16	V
	The W	orst Test R	esults Ch	annel 251/	848.8 MHz		
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
Frequency(MHZ)	(dBm)	Anti(ubi)	L055	(dBm)	(dBm)	(dB)	Polarity
1697.22	-41.41	9.60	4.77	-36.58	-13.00	-23.58	Н
2546.54	-40.57	10.80	8.50	-38.27	-13.00	-25.27	Н
3395.32	-31.79	12.50	11.90	-31.19	-13.00	-18.19	Н
1697.31	-44.40	9.60	4.77	-39.57	-13.00	-26.57	V
2546.25	-45.26	10.80	8.50	-42.96	-13.00	-29.96	V
3395.10	-43.07	12.50	11.90	-42.47	-13.00	-29.47	V

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 has.

PCS 1900: (30-20000)MHz

		DCS 1	900: (30-2	0000)MHz			
The Worst Test Results for Channel 512/1850.2MHz							
Fragues ov (MIII-)	S G.Lev	Ant/dDi)	Loop	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity
3700.27	-34.04	12.60	12.93	-34.37	-13.00	-21.37	Н
5550.52	-34.01	13.10	17.11	-38.02	-13.00	-25.02	Н
7400.62	-33.35	11.50	22.20	-44.05	-13.00	-31.05	Н
3700.51	-34.69	12.60	12.93	-35.02	-13.00	-22.02	V
5550.38	-34.66	13.10	17.11	-38.67	-13.00	-25.67	V
7400.53	-32.14	11.50	22.20	-42.84	-13.00	-29.84	V
	The Wor	st Test Res	sults for C	hannel 661	I/1880.0MH	Z	
Fragues ov (MIII-)	S G.Lev	Ant/dD:\	Loop	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity
3760.24	-34.56	12.60	12.93	-34.89	-13.00	-21.89	Н
5639.87	-34.43	13.10	17.11	-38.44	-13.00	-25.44	Н
7519.82	-32.87	11.50	22.20	-43.57	-13.00	-30.57	Н
3760.33	-34.81	12.60	12.93	-35.14	-13.00	-22.14	V
5640.08	-34.29	13.10	17.11	-38.30	-13.00	-25.30	V
7519.91	-31.77	11.50	22.20	-42.47	-13.00	-29.47	V
	The Wor	st Test Res	sults for C	hannel 810	D/1909.8MH	z	
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
Frequency(MHZ)	(dBm)	Anii(ubi)	L055	(dBm)	(dBm)	(dB)	Polarity
3819.45	-34.93	12.60	12.93	-35.26	-13.00	-22.26	Н
5729.12	-34.34	13.10	17.11	-38.35	-13.00	-25.35	Н
7639.18	-33.65	11.50	22.20	-44.35	-13.00	-31.35	Н
3819.80	-35.62	12.60	12.93	-35.95	-13.00	-22.95	V
5729.49	-34.77	13.10	17.11	-38.78	-13.00	-25.78	V
7639.11	-32.83	11.50	22.20	-43.53	-13.00	-30.53	V

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

(2)Above 8GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has.

GPRS 1900: (30-20000)MHz

35 1900. (30-2000)	· ···· · -	GPRS1	900: (30-2	0000)MHz				
The Worst Test Results for Channel 512/1850.2MHz								
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity	
	(dBm)			(dBm)	(dBm)	(dB)		
3700.02	-33.85	12.60	12.93	-34.18	-13.00	-21.18	Н	
5550.56	-34.31	13.10	17.11	-38.32	-13.00	-25.32	Н	
7400.68	-32.81	11.50	22.20	-43.51	-13.00	-30.51	Н	
3700.51	-35.41	12.60	12.93	-35.74	-13.00	-22.74	V	
5550.51	-34.30	13.10	17.11	-38.31	-13.00	-25.31	V	
7400.85	-32.22	11.50	22.20	-42.92	-13.00	-29.92	V	
The Worst Test Results for Channel 661/1880.0MHz								
Fragues av (MUz)	S G.Lev	Ant(dD:)	Loss	PMea	Limit	Margin	Polarity	
Frequency(MHz)	(dBm)	Ant(dBi)		(dBm)	(dBm)	(dB)		
3759.97	-34.36	12.60	12.93	-34.69	-13.00	-21.69	Н	
5639.82	-34.09	13.10	17.11	-38.10	-13.00	-25.10	Н	
7519.85	-32.39	11.50	22.20	-43.09	-13.00	-30.09	Н	
3760.10	-35.89	12.60	12.93	-36.22	-13.00	-23.22	V	
5640.26	-34.33	13.10	17.11	-38.34	-13.00	-25.34	V	
7520.08	-31.92	11.50	22.20	-42.62	-13.00	-29.62	V	
The Worst Test Results for Channel 810/1909.8MHz								
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity	
Frequency(MHZ)	(dBm)	Ant(ubi)	L055	(dBm)	(dBm)	(dB)		
3819.35	-34.06	12.60	12.93	-34.39	-13.00	-21.39	Н	
5729.25	-34.04	13.10	17.11	-38.05	-13.00	-25.05	Н	
7639.06	-32.65	11.50	22.20	-43.35	-13.00	-30.35	Н	
3819.78	-35.38	12.60	12.93	-35.71	-13.00	-22.71	V	
5729.51	-34.90	13.10	17.11	-38.91	-13.00	-25.91	V	
7639.03	-31.93	11.50	22.20	-42.63	-13.00	-29.63	V	

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

(2)Above 8GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has.

EDGE 1900: (30-20000)MHz

JE 1900. (30-2000)	,	EGPRS	1900: (30-	20000)MHz	Z			
The Worst Test Results for Channel 512/1850.2MHz								
Frequency(MHz)	S G.Lev	A . ((ID!)	1	PMea	Limit	Margin	Polarity	
	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)		
3700.46	-34.65	12.60	12.93	-34.98	-13.00	-21.98	Н	
5550.21	-34.43	13.10	17.11	-38.44	-13.00	-25.44	Н	
7400.84	-32.41	11.50	22.20	-43.11	-13.00	-30.11	Н	
3700.51	-35.29	12.60	12.93	-35.62	-13.00	-22.62	V	
5550.45	-34.36	13.10	17.11	-38.37	-13.00	-25.37	V	
7400.55	-32.52	11.50	22.20	-43.22	-13.00	-30.22	V	
The Worst Test Results for Channel 661/1880.0MHz								
Fragues av (MHz)	S G.Lev	Ant(dDi)	Loss	PMea	Limit	Margin	Polarity	
Frequency(MHz)	(dBm)	Ant(dBi)		(dBm)	(dBm)	(dB)		
3760.04	-34.82	12.60	12.93	-35.15	-13.00	-22.15	Н	
5640.07	-34.06	13.10	17.11	-38.07	-13.00	-25.07	Н	
7520.30	-33.47	11.50	22.20	-44.17	-13.00	-31.17	Н	
3760.00	-35.65	12.60	12.93	-35.98	-13.00	-22.98	V	
5640.28	-34.27	13.10	17.11	-38.28	-13.00	-25.28	V	
7519.94	-32.81	11.50	22.20	-43.51	-13.00	-30.51	V	
	The Wor	st Test Res	sults for C	hannel 810)/1909.8MH	z		
Frequency(MHz)	S G.Lev	Ant(dBi)	Loop	PMea	Limit	Margin	Polarity	
Frequency(IVIEZ)	(dBm)	Anti(ubi)	Loss	(dBm)	(dBm)	(dB)		
3819.54	-34.61	12.60	12.93	-34.94	-13.00	-21.94	Н	
5729.17	-34.93	13.10	17.11	-38.94	-13.00	-25.94	Н	
7639.26	-33.30	11.50	22.20	-44.00	-13.00	-31.00	Н	
3819.33	-35.50	12.60	12.93	-35.83	-13.00	-22.83	V	
5729.31	-34.30	13.10	17.11	-38.31	-13.00	-25.31	V	
7639.13	-32.28	11.50	22.20	-42.98	-13.00	-29.98	V	

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

⁽²⁾Above 8GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has.

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UMTS band V(30-9000)MHz

5 band v(30-9000)		WCDMA	Band V: (3	80-9000)MF	łz		
	The v	vost testre	•				
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
	(dBm)			(dBm)	(dBm)	(dB)	
1652.46	-41.27	9.40	4.75	-36.62	-13.00	-23.62	Н
2479.56	-39.62	10.60	8.39	-37.41	-13.00	-24.41	Н
3305.60	-31.75	12.00	11.79	-31.54	-13.00	-18.54	Н
1652.41	-44.15	9.40	4.75	-39.50	-13.00	-26.50	V
2479.43	-44.51	10.60	8.39	-42.30	-13.00	-29.30	V
3305.46	-43.85	12.00	11.79	-43.64	-13.00	-30.64	V
The Worst Test Results Channel 4183/836.6MHz							
Frequency(MHz)	S G.Lev	Λ := 4/ dD;)	Loss	PMea	Limit	Margin	Polarity
	(dBm)	Ant(dBi)		(dBm)	(dBm)	(dB)	
1673.05	-40.85	9.50	4.76	-36.11	-13.00	-23.11	Н
2509.88	-39.83	10.70	8.40	-37.53	-13.00	-24.53	Н
3346.11	-30.86	12.20	11.80	-30.46	-13.00	-17.46	Н
1672.89	-43.59	9.40	4.75	-38.94	-13.00	-25.94	V
2509.73	-44.11	10.60	8.39	-41.90	-13.00	-28.90	V
3346.33	-43.86	12.20	11.82	-43.48	-13.00	-30.48	V
	The Wo	orst Test R	esults Cha	annel 4233	/846.6MHz		
Fraguency/MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
Frequency(MHz)	(dBm)	Anti(ubi)		(dBm)	(dBm)	(dB)	
1693.23	-41.05	9.60	4.77	-36.22	-13.00	-23.22	Н
2539.12	-40.14	10.80	8.50	-37.84	-13.00	-24.84	Н
3386.32	-32.26	12.50	11.90	-31.66	-13.00	-18.66	Н
1693.19	-44.25	9.60	4.77	-39.42	-13.00	-26.42	V
2539.20	-44.43	10.80	8.50	-42.13	-13.00	-29.13	V
3386.11	-42.71	12.50	11.90	-42.11	-13.00	-29.11	V

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

(2)Above 3GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has.

UMTS band II(30-20000)MHz

WCDMA Band II: (30-20000)MHz								
The Worst Test Results for Channel 9262/1852.4MHz								
S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity		
(dBm)			(dBm)	(dBm)	(dB)			
-34.03	12.60	12.93	-34.36	-13.00	-21.36	Н		
-34.90	13.10	17.11	-38.91	-13.00	-25.91	Н		
-33.36	11.50	22.20	-44.06	-13.00	-31.06	Н		
-35.01	12.60	12.93	-35.34	-13.00	-22.34	V		
-35.04	13.10	17.11	-39.05	-13.00	-26.05	V		
-32.34	11.50	22.20	-43.04	-13.00	-30.04	V		
The Worst Test Results for Channel 9400/1880MHz								
S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity		
(dBm)			(dBm)	(dBm)	(dB)			
-34.90	12.60	12.93	-35.23	-13.00	-22.23	Н		
-35.38	13.10	17.11	-39.39	-13.00	-26.39	Н		
-33.52	11.50	22.20	-44.22	-13.00	-31.22	Н		
-36.02	12.60	12.93	-36.35	-13.00	-23.35	V		
-34.20	13.10	17.11	-38.21	-13.00	-25.21	V		
-32.35	11.50	22.20	-43.05	-13.00	-30.05	V		
The Worst Test Results for Channel 9538/1907.6MHz								
S G.Lev	۸ nat/dD:\	Loop	PMea	Limit	Margin	Polarity		
(dBm)	Anti(ubi)	L055	(dBm)	(dBm)	(dB)			
-34.19	12.60	12.93	-34.52	-13.00	-21.52	Н		
-34.08	13.10	17.11	-38.09	-13.00	-25.09	Н		
-33.19	11.50	22.20	-43.89	-13.00	-30.89	Н		
-35.11	12.60	12.93	-35.44	-13.00	-22.44	V		
-34.57	13.10	17.11	-38.58	-13.00	-25.58	V		
-32.48	11.50	22.20	-43.18	-13.00	-30.18	V		
	S G.Lev (dBm) -34.03 -34.90 -33.36 -35.01 -35.04 -32.34 The Wor S G.Lev (dBm) -34.90 -35.38 -33.52 -36.02 -34.20 -32.35 The Wors S G.Lev (dBm) -34.19 -34.19 -34.08 -33.19 -35.11 -34.57	The Worst Test Res S G.Lev (dBm) Ant(dBi) -34.03 12.60 -34.90 13.10 -33.36 11.50 -35.01 12.60 -35.04 13.10 -32.34 11.50 The Worst Test Res S G.Lev (dBm) Ant(dBi) -34.90 12.60 -35.38 13.10 -36.02 12.60 -34.20 13.10 -32.35 11.50 The Worst Test Res S G.Lev (dBm) Ant(dBi) -34.19 12.60 -34.08 13.10 -35.11 12.60 -34.57 13.10	The Worst Test Results for Cress G.Lev (dBm) Ant(dBi) Loss -34.03 12.60 12.93 -34.90 13.10 17.11 -33.36 11.50 22.20 -35.01 12.60 12.93 -35.04 13.10 17.11 -32.34 11.50 22.20 The Worst Test Results for Cress S G.Lev (dBm) Ant(dBi) Loss -34.90 12.60 12.93 -35.38 13.10 17.11 -33.52 11.50 22.20 -36.02 12.60 12.93 -34.20 13.10 17.11 -32.35 11.50 22.20 The Worst Test Results for Cress S G.Lev (dBm) Ant(dBi) Loss -34.19 12.60 12.93 -34.08 13.10 17.11 -33.19 11.50 22.20 -35.11 12.60 12.93 -34.57 13.10 17.11	The Worst Test Results for Channel 926 S G.Lev (dBm) Ant(dBi) Loss PMea (dBm) -34.03 12.60 12.93 -34.36 -34.90 13.10 17.11 -38.91 -33.36 11.50 22.20 -44.06 -35.01 12.60 12.93 -35.34 -35.04 13.10 17.11 -39.05 -32.34 11.50 22.20 -43.04 The Worst Test Results for Channel 94(dBm) S G.Lev (dBm) Ant(dBi) Loss PMea (dBm) -34.90 12.60 12.93 -35.23 -35.38 13.10 17.11 -39.39 -35.38 13.10 17.11 -39.39 -36.02 12.60 12.93 -36.35 -34.20 13.10 17.11 -38.21 -32.35 11.50 22.20 -43.05 The Worst Test Results for Channel 953 S G.Lev (dBm) Ant(dBi) Loss PMea (dBm) -34.19 <td< td=""><td>The Worst Test Results for Channel 9262/1852.4MH S G.Lev (dBm) Ant(dBi) Loss PMea (dBm) Limit (dBm) -34.03 12.60 12.93 -34.36 -13.00 -34.90 13.10 17.11 -38.91 -13.00 -33.36 11.50 22.20 -44.06 -13.00 -35.01 12.60 12.93 -35.34 -13.00 -35.04 13.10 17.11 -39.05 -13.00 -32.34 11.50 22.20 -43.04 -13.00 The Worst Test Results for Channel 9400/1880MH; S G.Lev (dBm) Ant(dBi) Loss PMea Limit (dBm) (dBm) (dBm) (dBm) (dBm) -34.90 12.60 12.93 -35.23 -13.00 -35.38 13.10 17.11 -39.39 -13.00 -35.39 11.50 22.20 -44.22 -13.00 -36.02 12.60 12.93 -36.35 -13.00 -32.35 11.50 22.20</td><td>The Worst Test Results for Channel 9262/1852.4MHz S G.Lev (dBm) Ant(dBi) Loss PMea (dBm) Limit (dBm) Margin (dBm) -34.03 12.60 12.93 -34.36 -13.00 -21.36 -34.90 13.10 17.11 -38.91 -13.00 -25.91 -33.36 11.50 22.20 -44.06 -13.00 -22.34 -35.01 12.60 12.93 -35.34 -13.00 -22.34 -35.04 13.10 17.11 -39.05 -13.00 -26.05 -32.34 11.50 22.20 -43.04 -13.00 -26.05 -32.34 11.50 22.20 -43.04 -13.00 -26.05 -32.34 11.50 22.20 -43.04 -13.00 -26.05 -32.34 11.50 22.20 -43.04 -13.00 -26.05 S G.Lev (dBm) Ant(dBi) (dBm) (dBm) (dBm) (dBm) -22.23 -35.38 13.10 17.11 -39.35 -13.</td></td<>	The Worst Test Results for Channel 9262/1852.4MH S G.Lev (dBm) Ant(dBi) Loss PMea (dBm) Limit (dBm) -34.03 12.60 12.93 -34.36 -13.00 -34.90 13.10 17.11 -38.91 -13.00 -33.36 11.50 22.20 -44.06 -13.00 -35.01 12.60 12.93 -35.34 -13.00 -35.04 13.10 17.11 -39.05 -13.00 -32.34 11.50 22.20 -43.04 -13.00 The Worst Test Results for Channel 9400/1880MH; S G.Lev (dBm) Ant(dBi) Loss PMea Limit (dBm) (dBm) (dBm) (dBm) (dBm) -34.90 12.60 12.93 -35.23 -13.00 -35.38 13.10 17.11 -39.39 -13.00 -35.39 11.50 22.20 -44.22 -13.00 -36.02 12.60 12.93 -36.35 -13.00 -32.35 11.50 22.20	The Worst Test Results for Channel 9262/1852.4MHz S G.Lev (dBm) Ant(dBi) Loss PMea (dBm) Limit (dBm) Margin (dBm) -34.03 12.60 12.93 -34.36 -13.00 -21.36 -34.90 13.10 17.11 -38.91 -13.00 -25.91 -33.36 11.50 22.20 -44.06 -13.00 -22.34 -35.01 12.60 12.93 -35.34 -13.00 -22.34 -35.04 13.10 17.11 -39.05 -13.00 -26.05 -32.34 11.50 22.20 -43.04 -13.00 -26.05 -32.34 11.50 22.20 -43.04 -13.00 -26.05 -32.34 11.50 22.20 -43.04 -13.00 -26.05 -32.34 11.50 22.20 -43.04 -13.00 -26.05 S G.Lev (dBm) Ant(dBi) (dBm) (dBm) (dBm) (dBm) -22.23 -35.38 13.10 17.11 -39.35 -13.		

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

(2)Above 6GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has.

APPENDIX BPHOTOS OF TEST SETUP

RADIATED SPURIOUS EMISSION





*****END OF THE REPORT***