RADIO TEST REPORT

Report No: STS1703189F01

Issued for

ITALCOM GROUP

1728Coral Way, Coral Gables, Miami, Florida, United States 33145(Zip code: 518048)

Product Name:	KIN Tablet
Brand Name:	NYX mobile
Model Name:	KIN
Series Model:	N/A
FCC ID:	YPVITALCOMKIN
Test Standard:	FCC Part 22H and 24E

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TEST RESULT CERTIFICATION

Applicant's name: ITALCOM GROUP

1728Coral Way, Coral Gables, Miami, Florida, United States 33145 Address.....:

(Zip code: 518048)

Manufacture's Name: Vitsmo&Nyx.Co., LTD

Product name.....: KIN Tablet

Brand name: NYX mobile

Model and/or type reference .. : KIN

Standards FCC Part 22H and 24E

Test procedure ANSI/TIA 603-D (2010)

This device described above has been tested by BZT and 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 performance of tests 12 Apr. 2017~28 Apr. 2017

Date of Issue 02 May. 2017

Test ResultPass

Testing Engineer

Technical Manager :

Authorized Signatory:

(Vita Li)

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	02 May. 2017	STS1703189F01	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 22.913 24.232	Effective Radiated Pow- er/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+10log10(P[Watts])	PASS	
2.1053 22.917 24.238	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	
2.1051 22.917 24.238	Band Edge	< 43+10log10(P[Watts])	PASS	

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	±0.70dB
2	Spurious emissions,conducted	±1.19dB
5	All emissions,radiated(<1G) 30MHz-200MHz	±2.83dB
6	All emissions,radiated(<1G) 200MHz-1000MHz	±2.94dB
7	All emissions,radiated(>1G)	±3.03dB
8	Temperature	±0.5°C
9	Humidity	±2%

2 PRODUCT INFORMATION

Product Designation:	KIN Tablet	
Hardware version number:	NYX_KIN_001	
Software version number:	KIN_AMXNYX_V001R	
FCC ID:	YPV ITALCOMKIN	
	GSM/GPRS/EDGE:	
	850: 824.2 MHz ~ 848.8 MHz	
	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	
Dy Fraguency	1900: 1930.2 MHz ~ 1989.8 MHz	
Rx Frequency:	WCDMA:	
	Band V: 871.4 MHz ~ 891.6 MHz	
	Band II: 1932.4 MHz ~ 1987.6 MHz	
Max RF Output Power:	GSM850:31.89dBm,PCS1900:28.70dBm GPRS850:31.72dBm,GPRS1900:28.58Bm EDGE850:31.67dBm,EDGE1900:28.47dBm WCDMABand V:23.63dBm,WCDMA Band II:22.51dBm	
Type of Emission:	GSM(850): 321KGXW; GSM(1900): 317KGXW GPRS(850): 321KG7W; GPRS(1900): 325KG7W EDGE(850): 319KG7W; EDGE(1900): 320KG7W WCDMA850: 4M89F9W WCDMA1900: 4M84F9W	
SIM Card:	Support single SIM card	
Antenna:	PIFA Antenna	
	GSM 850:0.5dBi ,PCS 1900: 1.2dBi	
Antenna gain:	WCDMA 850:0.5dBi, WCDMA1900: 1.2dBi	
Power Supply:	DC 3.7V by battery	
Battery parameter:	Capacity: 4000mAh, Rated Voltage: 3.7V	
GPRS/EDGE Class:	Multi-Class12	
Extreme Vol. Limits:	DC3.5 V to 4.2 V (Nominal DC3.7V)	
Extreme Temp. Tolerance:	-20℃ to +45℃	
** Note: The High Voltage 4	2 V and Low Voltage 3.5 V was declared by manufacturer. The	

^{**} Note: The High Voltage 4.2 V and Low Voltage 3.5 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
Spectrum Analyzer	Agilent	E4407B	MY50140340	2016.10.23	2017.10.22
Signal Analyzer	Agilent	N9020A	MY49100060	2016.10.23	2017.10.22
Test Receiver	R&S	ESCI	101427	2016.10.23	2017.10.22
Communication Tester	Agilent	8960	MY48360751	2016.10.23	2017.10.22
Communication Tester	R&S	CMU200	112012	2016.10.23	2017.10.22
Test Receiver	R&S	ESCI	102086	2016.10.23	2017.10.22
Bilog Antenna	TESEQ	CBL6111D	34678	2014.11.24	2017.11.23
Bilog Antenna (Calibration antenna)	TESEQ	CBL6111D	34678	2014.11.24	2017.11.23
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1343	2015.03.05	2018.03.04
Horn Antenna (Calibration antenna)	Schwarzbeck	BBHA 9120D	9120D-1343	2015.03.05	2018.03.04
MXA SIGNAL Analyzer	Agilent	N9020A	MY49100060	2016.10.23	2017.10.22
Double Ridge Horn Antenna	COM-POWER CORPORATION	AH-840	AHA-840	2016.10.23	2017.10.22
Low frequency cable	N/A	R01	N/A	NCR	NCR
High frequency cable	SCHWARZBECK	AK9515H	SN-96286/96287	NCR	NCR
Vector signal generator	Agilent	E8257D-521	MY45141029	2016.10.23	2017.10.22
Power amplifier	DESAY	ZHL-42W	9638	2016.10.23	2017.10.22
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

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

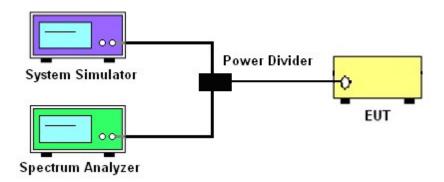
TEST OVERVIEW

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



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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/EDGE) 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.
- 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.

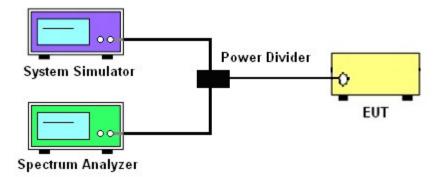
The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) 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

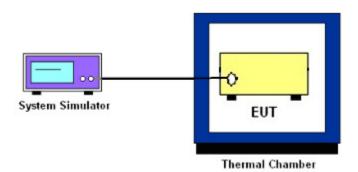
Temperature Variation

- 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

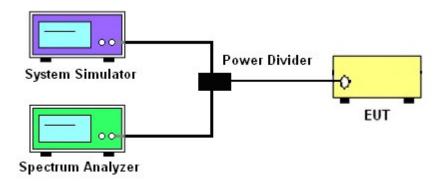
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

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

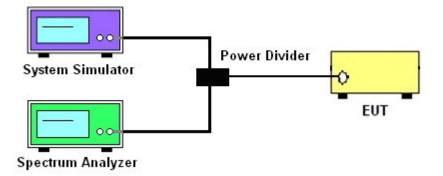
All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated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



5.8 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 ≥ 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 vpically dBW or dBm);

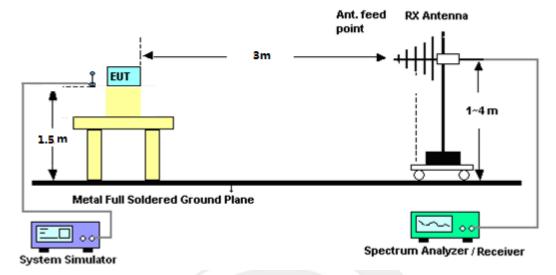
P.SG = measured transmitter output power or PSD, in dBm or dBW;

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

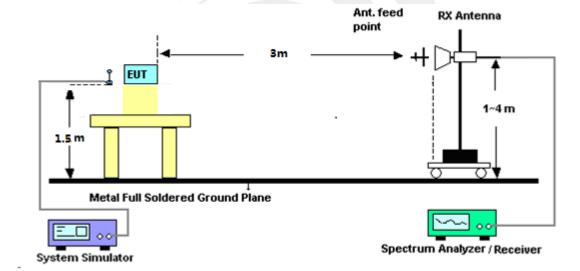
LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

TEST SETUP

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



A1CONDUCTED OUTPUT POWER

GSM 850:

Mode	Frequency (MHz)	AVG Power
	824.2	31.84
GSM850	836.6	31.86
	848.8	31.89
	824.2	31.65
GPRS850	836.6	31.69
	848.8	31.72
EDCE950	824.2	31.62
EDGE850	836.6	31.63
(1 Slot)	848.8	31.67

PCS 1900:

Mode	Frequency (MHz)	AVG Power
/ /	1850.2	28.7
GSM1900	1880.0	28.43
	1909.8	28.15
	1850.2	28.58
GPRS1900	1880.0	28.29
	1909.8	28.06
ED054000	1850.2	28.47
EDGE1900 (1 Slot)	1880.0	28.32
(1 5101)	1909.8	28.05

UMTS BAND V

Mode	Frequency(MHz)	AVG Power
WCDMA 850 RMC	826.4	23.45
	836.6	23.63
TAWO	846.6	23.49
HODDA	826.4	23.14
HSDPA Subtest 1	836.6	23.26
Sublest	846.6	23.21
11000	826.4	22.73
HSDPA Subtest 2	836.6	22.82
Sublest 2	846.6	22.81
110000	826.4	22.38
HSDPA Subtest 3	836.6	22.39
Sublest 3	846.6	22.43
110004	826.4	22.07
HSDPA Subtest 4	836.6	22.01
Sublest 4	846.6	22.04
	826.4	23.08
HSUPA Subtest 1	836.6	23.22
Sublest	846.6	22.78
	826.4	22.11
HSUPA Subtest 2	836.6	22.26
Sublest 2	846.6	21.79
	826.4	22.10
HSUPA Subtest 3	836.6	21.81
Sublest 3	846.6	21.37
1101.12.4	826.4	21.65
HSUPA Subtest 4	836.6	21.46
Sublest 4	846.6	21.07
1101154	826.4	20.18
HSUPA Subtest 5	836.6	20.03
Sublest 5	846.6	19.62

UMTS BAND II

Mode	Frequency(MHz)	AVG Power
WCDMA 1900 RMC	1852.4	22.45
	1880	22.51
NWO	1907.6	22.21
LIODDA	1852.4	22.16
HSDPA Subtest 1	1880	22.18
Oublest 1	1907.6	21.98
LICDDA	1852.4	21.76
HSDPA Subtest 2	1880	21.75
Subtest 2	1907.6	21.53
LICEDA	1852.4	21.42
HSDPA Subtest 3	1880	21.28
Sublest 5	1907.6	21.14
LICDDA	1852.4	21.02
HSDPA Subtest 4	1880	20.94
Sublest 4	1907.6	20.81
HOUDA	1852.4	22.13
HSUPA Subtest 1	1880	22.15
Sublest 1	1907.6	21.53
LIQUIDA	1852.4	21.29
HSUPA Subtest 2	1880	21.21
Sublest 2	1907.6	20.59
1101154	1852.4	21.13
HSUPA Subtest 3	1880	20.74
Sublest 3	1907.6	20.25
LIOUDA	1852.4	20.74
HSUPA Subtest 4	1880	20.39
Sublest 4	1907.6	19.89
1101104	1852.4	19.30
HSUPA Subtest 5	1880	18.96
Sublest 5	1907.6	18.44

A2 PEAK-TO-AVERAGE RADIO PCS 1900:

Mode	Frequency (MHz)	PEAK Power	AVG Power	PAR
	1850.2	28.81	28.70	0.11
PCS1900	1880	28.55	28.43	0.12
	1909.8	28.27	28.15	0.12
	1850.2	28.70	28.58	0.12
GPRS1900	1880	28.40	28.29	0.11
	1909.8	28.17	28.06	0.11
EDCE1000	1850.2	28.58	28.47	0.11
EDGE1900	1880	28.43	28.32	0.11
(1 Slot)	1909.8	28.16	28.05	0.11

UMTS BAND II:

Mode	Frequency (MHz)	PEAK Power	AVG Power	PAR
	1852.4	25.28	22.45	2.83
WCDMA 1900 RMC	1880	25.15	22.51	2.64
	1907.6	24.89	22.21	2.68
	1852.4	24.95	22.16	2.79
HSDPA 1900	1880	25.15	22.18	2.97
	1907.6	24.71	21.98	2.73
	1852.4	24.84	22.13	2.71
HSUPA 1900	1880	25.13	22.15	2.98
	1907.6	24.52	21.53	2.99

Radiated Power (ERP) for GSM 850 MHZ Result Mode Frequency Conclusion S G.Level **PMeas Polarization** Cable Gain loss (dBi) (dBm) E.R.P(dBm) Of Max. ERP 824.2 23.56 0.44 6.5 29.62 Horizontal Pass 824.2 25.42 0.44 6.5 31.48 Vertical **Pass** 836.6 23.49 0.45 6.5 29.54 Horizontal **Pass** GSM850 836.6 0.45 31.51 **Pass** 25.46 6.5 Vertical 848.8 23.79 0.46 6.5 29.83 Horizontal Pass 848.8 25.52 0.46 31.56 Vertical **Pass** 6.5 824.2 23.50 0.44 6.5 29.56 Horizontal **Pass** 824.2 25.34 31.40 0.44 6.5 Vertical Pass **Pass** 836.6 23.74 0.45 6.5 29.79 Horizontal GPRS850 836.6 25.46 0.45 6.5 31.51 Vertical **Pass** 848.8 23.53 0.46 6.5 29.57 Horizontal **Pass** 0.46 Vertical 848.8 25.44 6.5 31.48 Pass 824.2 23.48 0.44 6.5 29.54 Horizontal **Pass** 824.2 25.32 0.44 6.5 31.38 Vertical **Pass** 836.6 23.49 0.45 6.5 29.54 Horizontal **Pass** EDGE850 25.19 31.24 836.6 0.45 6.5 Vertical Pass 848.8 23.57 0.46 6.5 29.61 Horizontal **Pass**

Vertical

Pass

848.8

25.51

0.46

6.5

31.55

Radiated Power (EIRP) for PCS 1900 MHZ							
				Re	esult		
Mode	Frequency	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
		(dBm)	loss	(dBi)	E.I.R.P.(dBm)	Of Max.EIRP.	
	1850.2	18.44	2.41	10.35	26.38	Horizontal	Pass
	1850.2	20.42	2.41	10.35	28.36	Vertical	Pass
PCS1900	1880	18.23	2.42	10.35	26.16	Horizontal	Pass
PC31900	1880	20.22	2.42	10.35	28.15	Vertical	Pass
	1909.8	18.36	2.43	10.35	26.28	Horizontal	Pass
	1909.8	20.09	2.43	10.35	28.01	Vertical	Pass
	1850.2	18.54	2.41	10.35	26.48	Horizontal	Pass
	1850.2	20.42	2.41	10.35	28.36	Vertical	Pass
GPRS1900	1880	18.41	2.42	10.35	26.34	Horizontal	Pass
GPK31900	1880	19.99	2.42	10.35	27.92	Vertical	Pass
	1909.8	18.26	2.43	10.35	26.18	Horizontal	Pass
	1909.8	19.83	2.43	10.35	27.75	Vertical	Pass
	1850.2	18.54	2.41	10.35	26.48	Horizontal	Pass
	1850.2	20.13	2.41	10.35	28.07	Vertical	Pass
EDGE1900	1880	18.39	2.42	10.35	26.32	Horizontal	Pass
EDGE 1900	1880	19.93	2.42	10.35	27.86	Vertical	Pass
	1909.8	18.22	2.43	10.35	26.14	Horizontal	Pass
	1909.8	19.88	2.43	10.35	27.80	Vertical	Pass

Dadioted Daws	· (EDD)

	Radiated Power (ERP) for WCDMA Band V							
				Re	esult			
Mode	Frequency	S G.Level	Cable	Gain	PMeas E.R.P	Polarization	Conclusion	
		(dBm)	loss	loss (dBi)	(dBm)	Of Max.ERP		
	826.4	15.00	0.44	6.5	21.06	Horizontal	Pass	
	826.4	16.87	0.44	6.5	22.93	Vertical	Pass	
Band V	835	15.30	0.45	6.5	21.35	Horizontal	Pass	
Dallu V	835	17.09	0.45	6.5	23.14	Vertical	Pass	
	846.4	14.98	0.46	6.5	21.02	Horizontal	Pass	
	846.4	16.91	0.46	6.5	22.95	Vertical	Pass	

Radiated Power (EIRP) for WCDMA Band II							
				Re	sult		
Mode	Frequency	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
		(dBm)	loss	(dBi)	E.I.R.P.(dBm)	Of Max.EIRP	
	1852.4	12.21	2.41	10.35	20.15	Horizontal	Pass
	1852.4	13.93	2.41	10.35	21.87	Vertical	Pass
Dond II	1880	12.13	2.42	10.35	20.06	Horizontal	Pass
Band II	1880	14.1	2.42	10.35	22.03	Vertical	Pass
	1907.4	12.26	2.43	10.35	20.18	Horizontal	Pass
	1907.4	13.99	2.43	10.35	21.91	Vertical	Pass

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

Occupied Bandwidth for GSM 850 band							
Mada	- (1411)	Occupied Bandwidth	Emission Bandwidth				
Mode	Frequency(MHz)	(99%)(kHz)	(-26dBc)(kHz)				
Low Channel	824.2	247.78	321.2				
Middle Channel	836.6	247.80	315.9				
High Channel	848.8	246.04	310.9				
	Occupied Bandwidth for GPRS 850 band						
Mode	Fragues ov/MUz)	Occupied Bandwidth	Emission Bandwidth				
	Frequency(MHz)	(99%)(kHz)	(-26dBc)(kHz)				
Low Channel	824.2	248.19	321.3				
Middle Channel	836.6	245.11	316.3				
High Channel	848.8	243.99	318.1				
	Occupied Bandw	vidth for EGPRS 850 band					
Mode	Fragues (MUz)	Occupied Bandwidth	Emission Bandwidth				
iviode	Frequency(MHz)	(99%)(kHz)	(-26dBc)(kHz)				
Low Channel	824.2	244.96	317.3				
Middle Channel	836.6	243.10	319.5				
High Channel	848.8	245.45	315.4				

Occupied Bandwidth for GSM1900 band						
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	Emission Bandwidth (-26dBc)(kHz)			
Low Channel	1850.2	242.72	313.0			
Middle Channel	1880.0	243.07	313.6			
High Channel	1909.8	241.36	316.7			
	Occupied Bandwidth for GPRS 1900 band					
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	Emission Bandwidth (-26dBc)(kHz)			
Low Channel	1850.2	249.03	324.6			
Middle Channel	1880.0	243.70	312.7			
High Channel	1909.8	245.79	317.5			
	Occupied Bandy	vidth for EDGE 1900 band				
Mode	Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	Emission Bandwidth (-26dBc)(kHz)			
Low Channel	1850.2	249.19	319.1			
Middle Channel	1880.0	242.89	320.4			
High Channel	1909.8	246.33	314.4			

Occupied Bandwidth for UMTS band V						
Mode	Frequency(MHz)	Occupied Bandwidth	Emission Bandwidth			
	Frequency(MHZ)	(99%)(MHz)	(-26dBc)(MHz)			
Low Channel	826.4	4.2109	4.834			
Middle Channel	836.6	4.2247	4.891			
High Channel	846.6	4.2151	4.861			

Occupied Bandwidth for UMTS band II						
Modo	Fraguanay(MHz)	Occupied Bandwidth	Emission Bandwidth			
Mode	Frequency(MHz)	(99%)(MHz)	(-26dBc)(MHz)			
Low Channel	1852.4	4.2055	4.833			
Middle Channel	1880	4.2103	4.813			
High Channel	1907.6	4.1979	4.841			

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



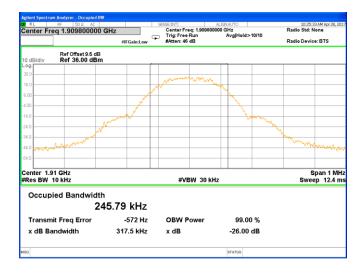
GPRS 1900 CH 512



GPRS 1900 CH 661



GPRS 1900 CH 810



EDGE 1900 CH 512



EDGE 1900 CH 661



EDGE 1900 CH 810



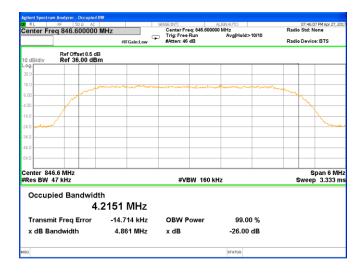
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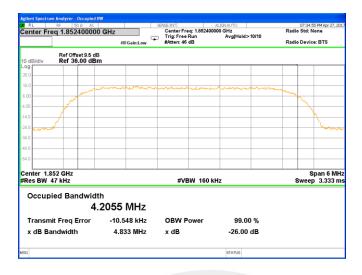
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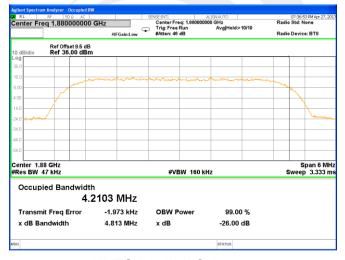
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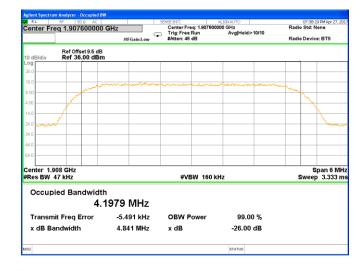
UMTS BAND II CH 9262



UMTS BAND II CH 9400



UMTS BAND II CH 9538



A5 FREQUENCY STABILITY

Normal Voltage = 3.7V.; Battery End Point (BEP) = 3.5 V.; Maximum Voltage =4.2 V

GSM 850 Middle Channel/836.6MHz						
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result	
50		26.25	0.314			
40		23.48	0.281			
30		25.43	0.304			
20		35.97	0.430			
10	Normal Voltage	34.89	0.417			
0		23.27	0.278	2.5ppm	PASS	
-10		13.05	0.156			
-20		14.25	0.170			
-30		20.18	0.241			
25	Maximum Voltage	26.47	0.316			
25	BEP	23.43	0.280			

	GPRS 850 Middle Channel/836.6MHz						
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result		
50		28.47	0.340				
40		23.39	0.280				
30		34.99	0.418				
20		24.27	0.290	2.5ppm	PASS		
10	Normal Voltage	13.81	0.165				
0		31.86	0.381				
-10		36.30	0.434				
-20		15.22	0.182				
-30		33.20	0.397]			
25	Maximum Voltage	30.39	0.024				
25	BEP	35.34	0.014				

	EDGE 850 Middle Channel/836.6MHz										
Temperature (°C)	Voltage (Volt)	Limit		Limit	Result						
50		11.76	0.141								
40		18.55	0.222								
30		15.52	0.186								
20		13.82	0.165								
10	Normal Voltage	12.46	0.149								
0		29.29	0.350	2.5ppm	PASS						
-10		20.69	0.247								
-20		33.68	0.403								
-30		27.36	0.327								
25	Maximum Voltage	14.90	0.024								
25	BEP	18.56	0.014								

	GSM 1900 Middle Channel/1880MHz										
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result						
50		28.95	0.015								
40		34.14	0.018								
30		23.35	0.012								
20		20.91	0.011								
10	Normal Voltage	12.98	0.007	Within Au-							
0		20.79	0.011	thorized	PASS						
-10		27.42	0.015	Band							
-20		27.40	0.015								
-30		20.07	0.011								
25	Maximum Voltage	18.36	0.010								
25	BEP	24.23	0.013								

	GPRS 1900 Middle Channel/1880MHz										
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result						
50		15.92	0.008								
40		13.67	0.007								
30		24.28	0.013								
20		16.09	0.009								
10	Normal Voltage	17.05	0.009	Within Au-							
0		34.31	0.018	thorized	PASS						
-10		33.88	0.018	Band							
-20		21.68	0.012								
-30		23.86	0.013								
25	Maximum Voltage	29.52	0.016								
25	BEP	14.38	0.008								

	EDGE 1900 Middle Channel/1880MHz										
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result						
50		13.67	0.007								
40		13.74	0.007								
30		14.48	0.008								
20		22.69	0.012								
10	Normal Voltage	27.54	0.015	Within Au-							
0		33.26	0.018	thorized	PASS						
-10		34.45	0.018	Band							
-20		18.77	0.010]							
-30		15.06	0.008								
25	Maximum Voltage	23.46	0.012								
25	BEP	15.10	0.008								

	WCDMA V Middle Channel/836.6MHz										
Temperature (°C)	Voltage (Volt)			Limit	Result						
50		16.09	0.192								
40		19.36	0.231								
30		19.29	0.231								
20		31.72	0.379								
10	Normal Voltage	27.05	0.323								
0		25.89	0.309	2.5ppm	PASS						
-10		31.37	0.375								
-20		17.62	0.211								
-30		36.49	0.436								
25	Maximum Voltage	13.54	0.162								
25	BEP	23.23	0.278								

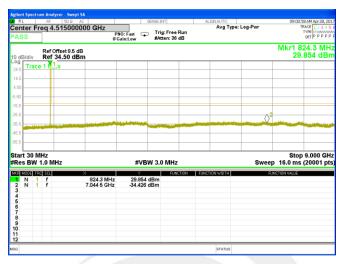
1. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

	WCDMA II Middle Channel/1880MHz										
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result						
50		34.00	0.018								
40		27.71	0.015								
30		32.42	0.017								
20		33.31	0.018								
10	Normal Voltage	24.52	0.013	Within Au-							
0		16.81	0.009	thorized	PASS						
-10		22.99	0.012	Band							
-20		14.95	0.008								
-30		34.46	0.018								
25	Maximum Voltage	16.56	0.009								
25	BEP	16.12	0.009								

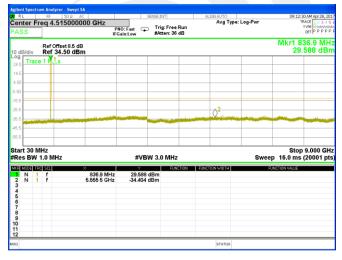
^{1.} The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

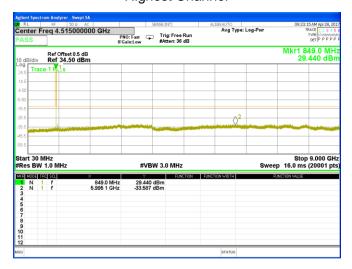
A6 SPURIOUS EMISSIONS AT ANTENNA TERMINALS GSM 850 BAND

Lowest Channel



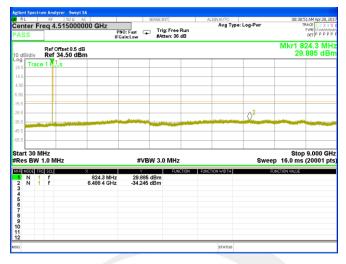
Middle Channel





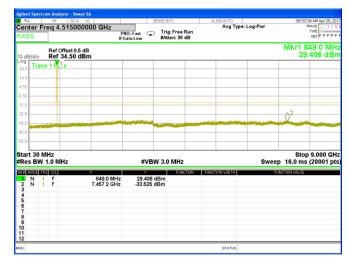
GPRS 850 BAND

Lowest Channel



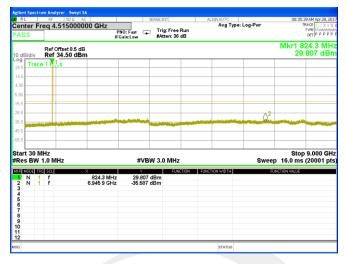
Middle Channel



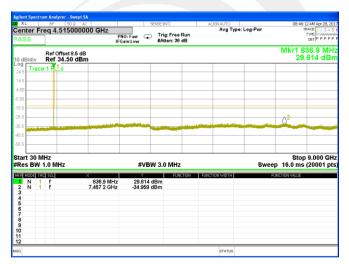


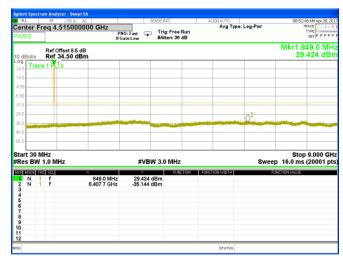
EDGE 850 BAND

Lowest Channel



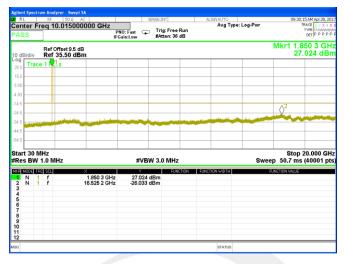
Middle Channel



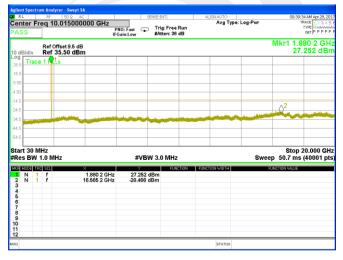


GSM1900 BAND(30M-20G)

Lowest Channel



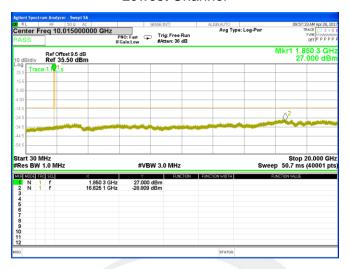
Middle Channel



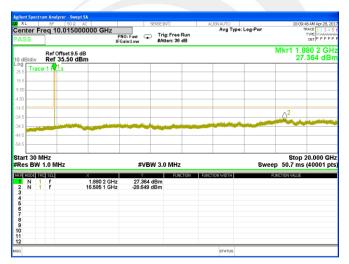


GPRS1900 BAND(30M-20G)

Lowest Channel



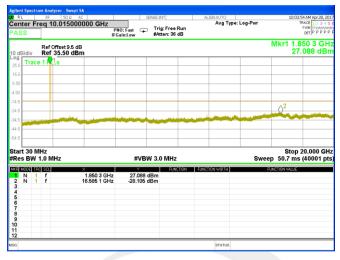
Middle Channel



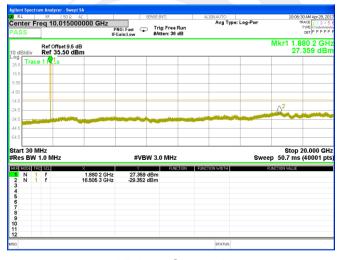


EDGE 1900 BAND(30M-20G)

Lowest Channel



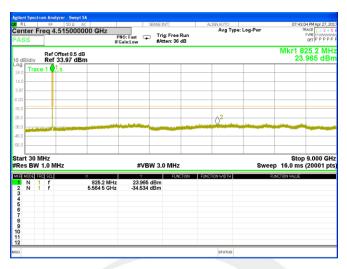
Middle Channel



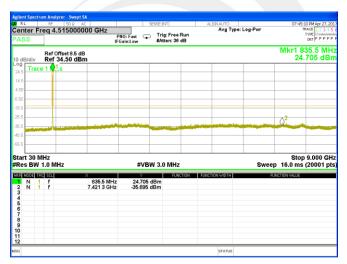


WCDMA Band V (RMC 12.2Kbps)

Lowest Channel



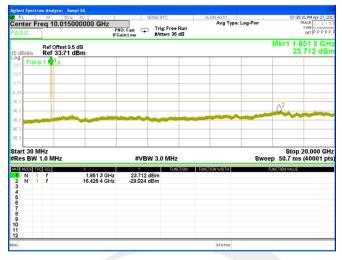
Middle Channel



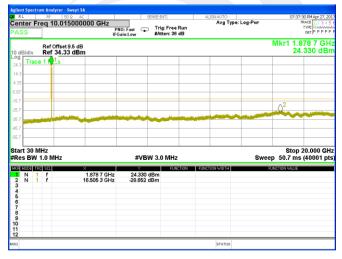


WCDMA Band II (RMC 12.2Kbps)(30M-20G)

Lowest Channel



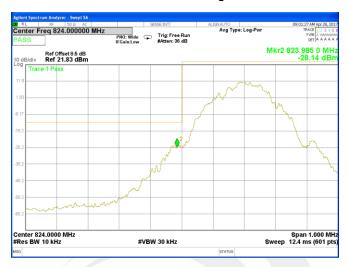
Middle Channel





GSM 850

Lowest Band Edge





GPRS 850

Lowest Band Edge





EDGE 850

Lowest Band Edge





GSM 1900

Lowest Band Edge





GPRS 1900

Lowest Band Edge





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

		GSM	850: (30-9	000)MHz			
	The W	orst Test R	•	•	824.2 MHz		
Eroguopov/MHz)	S G.Lev	Ant(dDi)	Loss	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	LOSS	(dBm)	(dBm)	(dBm)	Polarity
1648.43	-40.60	9.40	4.75	-35.95	-13.00	-22.95	Н
2472.38	-40.40	10.60	8.39	-38.19	-13.00	-25.19	Н
3296.43	-31.34	12.00	11.79	-31.13	-13.00	-18.13	Н
1648.35	-43.19	9.40	4.75	-38.54	-13.00	-25.54	V
2472.30	-44.02	10.60	8.39	-41.81	-13.00	-28.81	V
3296.84	-43.52	12.00	11.79	-43.31	-13.00	-30.31	V
	The W	orst Test R	esults Ch	annel 190/	836.6 MHz		
(NALL=)	S G.Lev	A 4 (-ID :)	1	PMea	Limit	Margin	Polarity
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	
1673.10	-40.40	9.50	4.76	-35.66	-13.00	-22.66	Н
2509.72	-39.71	10.70	8.40	-37.41	-13.00	-24.41	Н
3346.39	-30.85	12.20	11.80	-30.45	-13.00	-17.45	Н
1673.09	-44.22	9.40	4.75	-39.57	-13.00	-26.57	V
2509.56	-44.84	10.60	8.39	-42.63	-13.00	-29.63	V
3346.19	-42.69	12.20	11.82	-42.31	-13.00	-29.31	V
	The W	orst Test R	esults Ch	annel 251/	848.8 MHz		
Fragues (MIII)	S G.Lev	۸ mt/dD:\	Loop	PMea	Limit	Margin	Doloritu
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1697.36	-41.58	9.60	4.77	-36.75	-13.00	-23.75	Н
2546.17	-40.08	10.80	8.50	-37.78	-13.00	-24.78	Н
3394.95	-32.25	12.50	11.90	-31.65	-13.00	-18.65	Н
1697.63	-43.93	9.60	4.77	-39.10	-13.00	-26.10	V
2546.37	-45.02	10.80	8.50	-42.72	-13.00	-29.72	V
3395.23	-43.18	12.50	11.90	-42.58	-13.00	-29.58	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)N		GPRS	850: (30-9	0000)MHz			
	The W	orst Test R	•	•	824.2 MHz		
	S G.Lev	A 4 (-ID :)	1	PMea	Limit	Margin	Dalawita
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1648.39	-41.39	9.40	4.75	-36.74	-13.00	-23.74	Н
2472.64	-40.04	10.60	8.39	-37.83	-13.00	-24.83	Н
3296.62	-31.35	12.00	11.79	-31.14	-13.00	-18.14	Н
1648.00	-43.79	9.40	4.75	-39.14	-13.00	-26.14	V
2472.28	-44.04	10.60	8.39	-41.83	-13.00	-28.83	V
3296.48	-42.85	12.00	11.79	-42.64	-13.00	-29.64	V
	The W	orst Test R	esults Ch	annel 190/	836.6 MHz		
Fragues av/MHz)	S G.Lev	Ant(dBi)	Loop	PMea	Limit	Margin	Doloritu
Frequency(MHz)	(dBm)		Loss	(dBm)	(dBm)	(dBm)	Polarity
1672.90	-40.15	9.50	4.76	-35.41	-13.00	-22.41	Н
2509.45	-40.58	10.70	8.40	-38.28	-13.00	-25.28	Н
3345.98	-31.13	12.20	11.80	-30.73	-13.00	-17.73	Н
1673.14	-43.40	9.40	4.75	-38.75	-13.00	-25.75	V
2509.75	-44.39	10.60	8.39	-42.18	-13.00	-29.18	V
3346.22	-43.56	12.20	11.82	-43.18	-13.00	-30.18	V
	The W	orst Test R	esults Ch	annel 251/	848.8 MHz		
Frequency(MHz)	S G.Lev	۸ nt/dDi)	Loss	PMea	Limit	Margin	Polarity
Frequency(MHZ)	(dBm)	Ant(dBi)	L088	(dBm)	(dBm)	(dBm)	Polarity
1697.33	-41.19	9.60	4.77	-36.36	-13.00	-23.36	Н
2546.07	-40.36	10.80	8.50	-38.06	-13.00	-25.06	Н
3395.24	-32.04	12.50	11.90	-31.44	-13.00	-18.44	Н
1697.19	-43.53	9.60	4.77	-38.70	-13.00	-25.70	V
2546.54	-45.14	10.80	8.50	-42.84	-13.00	-29.84	V
3394.88	-43.27	12.50	11.90	-42.67	-13.00	-29.67	V

(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

GL 030. (30-9000)N		EGPRS	8 850: (30-	9000)MHz			
	The W	orst Test R	esults Ch	annel 128/	824.2 MHz		
F(NALL-)	S G.Lev	A == 4 (=ID :)	1	PMea	Limit	Margin	Dalarita
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1648.39	-41.38	9.40	4.75	-36.73	-13.00	-23.73	Н
2472.36	-39.59	10.60	8.39	-37.38	-13.00	-24.38	Н
3296.45	-31.63	12.00	11.79	-31.42	-13.00	-18.42	Н
1648.42	-44.63	9.40	4.75	-39.98	-13.00	-26.98	V
2472.62	-44.23	10.60	8.39	-42.02	-13.00	-29.02	V
3296.43	-42.68	12.00	11.79	-42.47	-13.00	-29.47	V
	The W	orst Test R	esults Ch	annel 190/	836.6 MHz		
Fraguenov(MHz)	S G.Lev	۸ pt/dDi)	Loss	PMea	Limit	Margin	Polarity
Frequency(MHz)	(dBm)	Ant(dBi)	LUSS	(dBm)	(dBm)	(dBm)	lolanty
1673.04	-41.56	9.50	4.76	-36.82	-13.00	-23.82	Н
2509.68	-39.38	10.70	8.40	-37.08	-13.00	-24.08	Н
3346.14	-31.86	12.20	11.80	-31.46	-13.00	-18.46	Н
1673.02	-43.14	9.40	4.75	-38.49	-13.00	-25.49	V
2509.77	-44.91	10.60	8.39	-42.70	-13.00	-29.70	V
3346.22	-43.03	12.20	11.82	-42.65	-13.00	-29.65	V
	The W	orst Test R	esults Ch	annel 251/8	848.8 MHz		
Frequency(MHz)	S G.Lev	Ant(dBi)	Loop	PMea	Limit	Margin	Polarity
Frequency(MHZ)	(dBm)	Ant(ubi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
1697.26	-41.05	9.60	4.77	-36.22	-13.00	-23.22	Н
2546.41	-39.56	10.80	8.50	-37.26	-13.00	-24.26	Н
3395.28	-31.26	12.50	11.90	-30.66	-13.00	-17.66	Н
1697.19	-44.32	9.60	4.77	-39.49	-13.00	-26.49	V
2546.45	-44.70	10.80	8.50	-42.40	-13.00	-29.40	V
3394.87	-43.39	12.50	11.90	-42.79	-13.00	-29.79	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: (30-20	0000)MHz				
The Worst Test Results for Channel 512/1850.2MHz								
Fragues av/MHz)	S G.Lev	Ant/dD:\	Loop	PMea	Limit	Margin	Dolority	
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity	
3700.21	-33.73	12.60	12.93	-34.06	-13.00	-21.06	Н	
5550.48	-34.56	13.10	17.11	-38.57	-13.00	-25.57	Н	
7400.56	-32.70	11.50	22.20	-43.40	-13.00	-30.40	Н	
3700.51	-35.54	12.60	12.93	-35.87	-13.00	-22.87	V	
5550.62	-34.97	13.10	17.11	-38.98	-13.00	-25.98	V	
7400.61	-32.49	11.50	22.20	-43.19	-13.00	-30.19	V	
	The Wor	st Test Res	sults for C	hannel 661	I/1880.0MH	Z		
F	S G.Lev	A 4 (-ID :)	1	PMea	Limit	Margin	Dalasita	
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity	
3760.00	-34.34	12.60	12.93	-34.67	-13.00	-21.67	Н	
5639.80	-34.87	13.10	17.11	-38.88	-13.00	-25.88	Н	
7520.02	-32.42	11.50	22.20	-43.12	-13.00	-30.12	Н	
3760.14	-35.29	12.60	12.93	-35.62	-13.00	-22.62	V	
5640.00	-33.97	13.10	17.11	-37.98	-13.00	-24.98	V	
7520.12	-32.74	11.50	22.20	-43.44	-13.00	-30.44	V	
	The Wor	st Test Res	sults for C	hannel 810	D/1909.8MH	z		
Fragues av (MHz)	S G.Lev	۸ nt/dDi\	Loss	PMea	Limit	Margin	Dolority	
Frequency(MHz)	(dBm)	Ant(dBi)	LUSS	(dBm)	(dBm)	(dBm)	Polarity	
3819.40	-34.67	12.60	12.93	-35.00	-13.00	-22.00	Н	
5729.41	-34.34	13.10	17.11	-38.35	-13.00	-25.35	Н	
7639.31	-32.82	11.50	22.20	-43.52	-13.00	-30.52	Н	
3819.50	-35.65	12.60	12.93	-35.98	-13.00	-22.98	V	
5729.48	-33.89	13.10	17.11	-37.90	-13.00	-24.90	V	
7639.39	-33.03	11.50	22.20	-43.73	-13.00	-30.73	V	

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

GPRS 1900: (30-20000)MHz

		GPRS1	900: (30-2	0000)MHz			
	The Wor	st Test Res	sults for C	hannel 512	2/1850.2MH	z	
	S G.Lev	۸ ۱/ ما ا	1.000	PMea	Limit	Margin	Dalaritu
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3700.28	-33.74	12.60	12.93	-34.07	-13.00	-21.07	Н
5550.40	-35.20	13.10	17.11	-39.21	-13.00	-26.21	Н
7400.73	-32.36	11.50	22.20	-43.06	-13.00	-30.06	Н
3700.51	-34.62	12.60	12.93	-34.95	-13.00	-21.95	V
5550.50	-34.20	13.10	17.11	-38.21	-13.00	-25.21	V
7400.64	-31.76	11.50	22.20	-42.46	-13.00	-29.46	V
	The Wor	st Test Res	sults for C	hannel 661	I/1880.0MH	Z	
	S G.Lev	۸ ۱/ ما ا	1.000	PMea	Limit	Margin	Dalaritu
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3759.95	-34.54	12.60	12.93	-34.87	-13.00	-21.87	Н
5639.82	-34.12	13.10	17.11	-38.13	-13.00	-25.13	Н
7520.11	-33.08	11.50	22.20	-43.78	-13.00	-30.78	Н
3760.07	-35.66	12.60	12.93	-35.99	-13.00	-22.99	V
5639.90	-33.90	13.10	17.11	-37.91	-13.00	-24.91	V
7519.96	-32.34	11.50	22.20	-43.04	-13.00	-30.04	V
	The Wor	st Test Res	sults for C	hannel 810	D/1909.8MH	z	
Fragues av (MHz)	S G.Lev	Λnt/dDi)	Loss	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	LOSS	(dBm)	(dBm)	(dBm)	Polarity
3819.71	-34.86	12.60	12.93	-35.19	-13.00	-22.19	Н
5729.05	-34.78	13.10	17.11	-38.79	-13.00	-25.79	Н
7638.85	-32.67	11.50	22.20	-43.37	-13.00	-30.37	Н
3819.66	-34.81	12.60	12.93	-35.14	-13.00	-22.14	V
5729.14	-34.36	13.10	17.11	-38.37	-13.00	-25.37	V
7638.94	-32.79	11.50	22.20	-43.49	-13.00	-30.49	V

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

EDGE 1900: (30-20000)MHz

		EGPRS	1900: (30-	20000)MH	Z		
	The Wor	st Test Res	sults for C	hannel 512	2/1850.2MH	z	
Fraguanay/MUz)	S G.Lev	۸ nt/dDi)	Loss	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	LUSS	(dBm)	(dBm)	(dBm)	Polarity
3700.10	-34.70	12.60	12.93	-35.03	-13.00	-22.03	Н
5550.49	-34.78	13.10	17.11	-38.79	-13.00	-25.79	Н
7400.76	-33.14	11.50	22.20	-43.84	-13.00	-30.84	Н
3700.51	-35.59	12.60	12.93	-35.92	-13.00	-22.92	V
5550.49	-35.05	13.10	17.11	-39.06	-13.00	-26.06	V
7400.94	-32.02	11.50	22.20	-42.72	-13.00	-29.72	V
	The Wor	st Test Res	sults for C	hannel 661	I/1880.0MH	Z	
	S G.Lev	Ant(dBi) Loss	1	PMea	Limit	Margin	Dalasita
Frequency(MHz)	(dBm)		LOSS	(dBm)	(dBm)	(dBm)	Polarity
3760.17	-34.00	12.60	12.93	-34.33	-13.00	-21.33	Н
5639.98	-34.08	13.10	17.11	-38.09	-13.00	-25.09	Н
7519.99	-32.40	11.50	22.20	-43.10	-13.00	-30.10	Н
3759.93	-35.44	12.60	12.93	-35.77	-13.00	-22.77	V
5639.89	-34.24	13.10	17.11	-38.25	-13.00	-25.25	V
7520.04	-31.72	11.50	22.20	-42.42	-13.00	-29.42	V
	The Wor	st Test Res	sults for C	hannel 810	D/1909.8MH	Z	
Fragueray (MIII-)	S G.Lev	Ant/dD:\	Loop	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity
3819.54	-34.93	12.60	12.93	-35.26	-13.00	-22.26	Н
5729.37	-34.27	13.10	17.11	-38.28	-13.00	-25.28	Н
7639.19	-32.71	11.50	22.20	-43.41	-13.00	-30.41	Н
3819.32	-35.50	12.60	12.93	-35.83	-13.00	-22.83	V
5729.26	-34.78	13.10	17.11	-38.79	-13.00	-25.79	V
7639.22	-32.63	11.50	22.20	-43.33	-13.00	-30.33	V

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

UMTS band V(30-9000)MHz

WCDMA Band V: (30-9000)MHz										
The wost testresults channel 4132/826.4MHz										
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity			
	(dBm)			(dBm)	(dBm)	(dBm)				
1652.02	-40.28	9.40	4.75	-35.63	-13.00	-22.63	Н			
2479.71	-40.27	10.60	8.39	-38.06	-13.00	-25.06	Н			
3305.61	-32.27	12.00	11.79	-32.06	-13.00	-19.06	Н			
1652.08	-43.69	9.40	4.75	-39.04	-13.00	-26.04	V			
2479.56	-45.39	10.60	8.39	-43.18	-13.00	-30.18	V			
3305.77	-42.76	12.00	11.79	-42.55	-13.00	-29.55	V			
The Worst Test Results Channel 4183/836.6MHz										
Frequency(MHz)	S G.Lev (dBm)	Λ := 4 («ID:)	Loss	PMea	Limit	Margin	Polarity			
		Ant(dBi)		(dBm)	(dBm)	(dBm)				
1672.92	-40.85	9.50	4.76	-36.11	-13.00	-23.11	Н			
2509.54	-39.54	10.70	8.40	-37.24	-13.00	-24.24	Н			
3346.17	-31.65	12.20	11.80	-31.25	-13.00	-18.25	Н			
1673.01	-43.46	9.40	4.75	-38.81	-13.00	-25.81	V			
2509.90	-45.39	10.60	8.39	-43.18	-13.00	-30.18	V			
3346.20	-43.19	12.20	11.82	-42.81	-13.00	-29.81	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)				
1693.36	-41.59	9.60	4.77	-36.76	-13.00	-23.76	Н			
2539.19	-39.22	10.80	8.50	-36.92	-13.00	-23.92	Н			
3386.20	-32.25	12.50	11.90	-31.65	-13.00	-18.65	Н			
1693.19	-43.52	9.60	4.77	-38.69	-13.00	-25.69	V			
2539.07	-44.06	10.80	8.50	-41.76	-13.00	-28.76	V			
3385.84	-43.80	12.50	11.90	-43.20	-13.00	-30.20	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.

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UMTS band II(30-20000)MHz

5 band 11(30-20000	7/1411 12	WCDMA F	Rand II: (3	0-20000\M	 Н г						
WCDMA Band II: (30-20000)MHz The Worst Test Results for Channel 9262/1852.4MHz											
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity				
	(dBm)	7 tint(GDI)		(dBm)	(dBm)	(dBm)					
3704.38	-34.45	12.60	12.93	-34.78	-13.00	-21.78	Н				
5557.57	-34.41	13.10	17.11	-38.42	-13.00	-25.42	Н				
7409.95	-33.20	11.50	22.20	-43.90	-13.00	-30.90	Н				
3704.41	-34.63	12.60	12.93	-34.96	-13.00	-21.96	V				
5557.30	-34.75	13.10	17.11	-38.76	-13.00	-25.76	V				
7409.47	-31.89	11.50	22.20	-42.59	-13.00	-29.59	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)					
3759.90	-33.58	12.60	12.93	-33.91	-13.00	-20.91	Н				
5639.90	-34.25	13.10	17.11	-38.26	-13.00	-25.26	Н				
7519.84	-32.48	11.50	22.20	-43.18	-13.00	-30.18	Н				
3759.92	-35.71	12.60	12.93	-36.04	-13.00	-23.04	V				
5640.24	-34.38	13.10	17.11	-38.39	-13.00	-25.39	V				
7519.94	-32.04	11.50	22.20	-42.74	-13.00	-29.74	V				
	The Wors	st Test Res	ults for Ch	nannel 953	8/1907.6MH	lz					
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity				
				(dBm)	(dBm)	(dBm)					
3815.34	-34.45	12.60	12.93	-34.78	-13.00	-21.78	Н				
5722.45	-34.81	13.10	17.11	-38.82	-13.00	-25.82	Н				
7630.04	-32.82	11.50	22.20	-43.52	-13.00	-30.52	Н				
3815.69	-35.37	12.60	12.93	-35.70	-13.00	-22.70	V				
5722.47	-34.46	13.10	17.11	-38.47	-13.00	-25.47	V				
7630.32	-32.78	11.50	22.20	-43.48	-13.00	-30.48	V				

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***