





RADIO TEST REPORT

Report No: STS1711315W05

Issued for

Trackimo LLC.

350NE 24th Street, Unit 104, Miami, Florida, United States

Product Name:	GPS Tracker
Brand Name:	trackimo
Model Name:	TRKM017
Series Model:	N/A
FCC ID:	2AAI6-TRKM017
Test Standard:	FCC Part 22H and 24E

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TEST RESULT CERTIFICATION

Applicant's name: Trackimo LLC.

Address...... 350NE 24th Street, Unit 104, Miami, Florida, United States

Manufacture's Name: HUIZHOU QIAOWEI INTELLIGENT OVERSEAS CO.,LTD

Address..... B2 building, ELing phase 2, wuyi village, chenjiang steet, gaoxin dis-

trict, Huizhou city, Guangdong Province, China

Product discription

Product Name: GPS Tracker

Brand Name: trackimo

Model Name....: TRKM017

Series Model: N/A

Test Standards FCC Part 22H and 24E

Test procedure ANSI/TIA 603-D (2010)

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date of performance of tests 30 Nov. 2017~13 Dec. 2017

Date of Issue 13 Dec. 2017

Test ResultPass

Testing Engineer : Sean She

(Sean she)

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(Vita Li)

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Revision History

Rev.	Issue Date	Issue Date Report NO.		Contents
00	13 Dec. 2017 STS1711315W05		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

Shenzhen STS Test Services Co., Ltd.

Add.: 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,

Fuyong Street, Bao'an District, Shenzhen, Guangdong, China CNAS Registration No.: L7649; FCC Registration No.: 625569 IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	RF power,conducted	±0.71dB
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



2 PRODUCT INFORMATION

Product Name:	GPS Tracker
Hardware version number:	2.0
Software version number:	V12
FCC ID:	2AAI6-TRKM017
	GSM/GPRS/EDGE:
Tx Frequency:	850: 824.2 MHz ~ 848.8 MHz
	1900: 1850.2 MHz ~ 1909.8MHz
	GSM/GPRS/EDGE:
Rx Frequency:	850: 869.2 MHz ~ 893.8 MHz
	1900: 1930.2 MHz ~ 1989.8 MHz
Max RF Output Power:	GSM850:32.01dBm,PCS1900:28.22dBm GPRS850(1-Slot):31.81dBm,GPRS1900(1-Slot):28.15dBm GPRS850(2-Slot):31.40dBm,GPRS1900(2-Slot):27.75dBm GPRS850(3-Slot):30.97dBm,GPRS1900(3-Slot):27.33dBm GPRS850(4-Slot):30.50dBm,GPRS1900(4-Slot):26.83dBm EDGE 850(1-Slot):31.76dBm, EDGE 1900(1-Slot):28.10dBm EDGE 850(2-Slot):31.19dBm, EDGE 1900(2-Slot):27.53dBm EDGE 850(3-Slot):30.67dBm, EDGE 1900(3-Slot):27.03dBm EDGE 850(4-Slot):30.28dBm, EDGE 1900(4-Slot):26.55dBm
Type of Emission:	GSM(850): 320KGXW; GSM(1900): 323KGXW GPRS(850): 320KGXW; GPRS(1900): 319KGXW EDGE(850): 317KG7W; EDGE(1900): 321KG7W
SIM Card:	Support single card only
Antenna:	PIFA Antenna
Antenna gain:	1.39dBi
Power Supply:	DC 3.8V by battery
Battery	Battery(rating): Rated Voltage: 3.8V Charge Limit: 4.35V Capacity: 530mAh
GPRS/EDGE Class:	Multi-Class12
Extreme Vol. Limits:	DC3.4 V to 4.35 V (Nominal DC3.8V)
Extreme Temp. Tolerance:	-30℃ to +50℃

^{**} Note: The High Voltage 4.35 V 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.
- 2. 30 MHz to 10th harmonic for GSM1900.

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			



4 MEASUREMENT INSTRUMENTS

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibra- tion	Calibrated Until
Test Receiver	R&S	ESCI	101427	2017.10.15	2018.10.14
Communication Tester	R&S	CMU200	11764	2017.10.15	2018.10.14
Bilog Antenna	TESEQ	CBL6111D	34678	2017.03.24	2018.03.23
Horn Antenna	Schwarzbeck	BBHA 9120D (1201)	9120D-1343	2017.03.06	2018.03.05
MXA SIGNAL Analyzer	Agilent	N9020A	MY49100060	2017.03.11	2018.03.10
Low frequency cable	N/A	R01	N/A	NCR	NCR
High frequency cable	SCHWARZBECK	AK9515H	SN-96286/96287	NCR	NCR
Signal Generator	Agilent	N5182A	MY46240556	2017.10.15	2018.10.14
Pre-mplifier (0.1M-3GHz)	EM	EM330	60538	2017.03.12	2018.03.11
PreAmplifier (1G-26.5GHz)	Agilent	8449B	60538	2017.10.15	2018.10.14
Temperature& Humidity test chamber	GZGONGWEN	GDS-250	080821	2017.10.15	2018.10.14
Band Reject fil- ter(1920-1980MHz)	COM-MW	ZBSF-1920-1980	0092	2017.10.15	2018.10.14
Band Reject fil- ter(880-915MHz)	COM-MW	ZBSF-C897.5-35	707	2017.10.15	2018.10.14
Band Reject fil- ter(1710-1785MHz)	COM-MW	ZBSF-C1747.5-75	708	2017.10.15	2018.10.14
Band Reject fil- ter(1850-1910MHz)	COM-MW	ZBSF-C1880-60	709	2017.10.15	2018.10.14
Band Reject fil- ter(2500-2570MHz)	COM-MW	ZBSF-C2535-70	710	2017.10.15	2018.10.14
Highpass Filter	WHKX7.0/18G-8SS	Wainwright	18	2017.10.15	2018.10.14

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

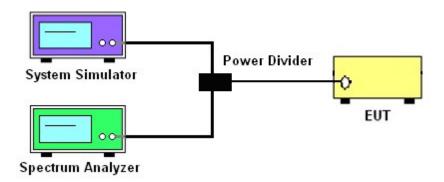
TEST OVERVIEW

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/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.
- 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.

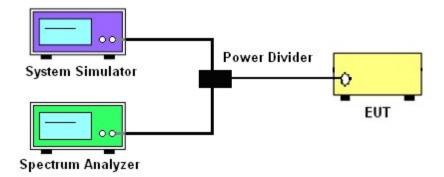
The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth)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

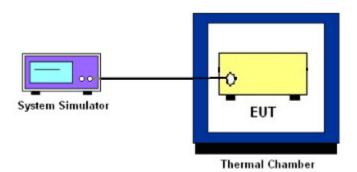
Temperature Variation

- 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

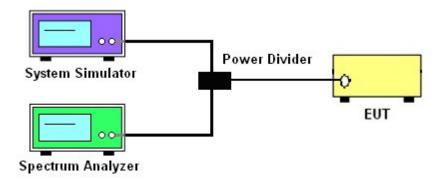
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

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

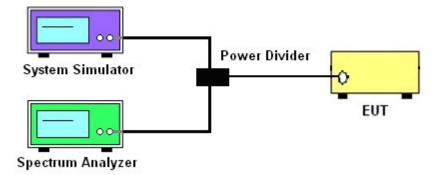
All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated 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 + 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 \geq 3 x RBW
- 4.No. of sweep points > 2 x span/RBW
- 5. Detector = Peak
- 6. Trace mode = max hold
- 7. The trace was allowed to stabilize
- 8. 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;

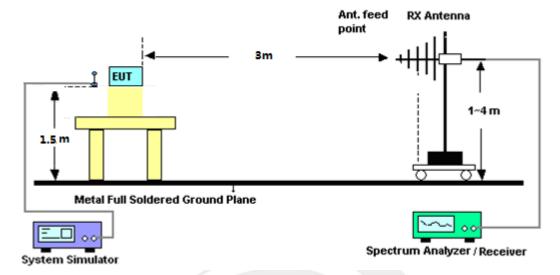
GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

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

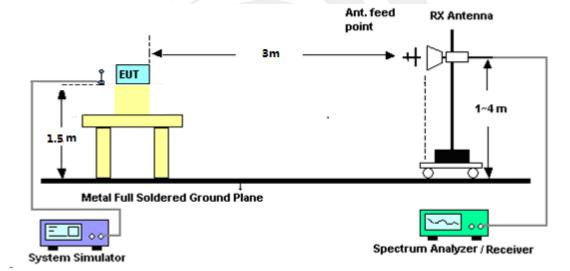


TEST SETUP

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	32.01
GSM850	836.6	31.98
	848.8	31.96
	824.2	31.79
GPRS(GMSK,1-Slot)	836.6	31.75
	848.8	31.81
	824.2	31.39
GPRS(GMSK,2-Slot)	836.6	31.29
	848.8	31.40
-/	824.2	30.93
GPRS(GMSK,3-Slot)	836.6	30.84
	848.8	30.97
	824.2	30.50
GPRS(GMSK,4-Slot)	836.6	30.40
	848.8	30.50
	824.2	31.76
EGPRS(GMSK,1-Slot)	836.6	31.73
	848.8	31.76
	824.2	31.19
EGPRS(GMSK,2-Slot)	836.6	31.04
	848.8	31.11
	824.2	30.66
EGPRS(GMSK,3-Slot)	836.6	30.62
	848.8	30.67
	824.2	30.26
EGPRS(GMSK,4-Slot)	836.6	30.18
	848.8	30.28



PCS 1900:

Mode	Frequency	AVG Power(dBm)
	(MHz)	71101011(02111)
	1850.2	28.15
GSM1900	1880.0	28.13
	1909.8	28.22
	1850.2	28.09
GPRS(GMSK,1-Slot)	1880.0	28.12
	1909.8	28.15
	1850.2	27.67
GPRS(GMSK,2-Slot)	1880.0	27.64
	1909.8	27.75
	1850.2	27.22
GPRS(GMSK,3-Slot)	1880.0	27.14
	1909.8	27.33
	1850.2	26.72
GPRS(GMSK,4-Slot)	1880.0	26.66
	1909.8	26.83
	1850.2	28.05
EGPRS(GMSK,1-Slot)	1880.0	28.09
	1909.8	28.1
	1850.2	27.42
EGPRS(GMSK,2-Slot)	1880.0	27.42
	1909.8	27.53
	1850.2	26.93
EGPRS(GMSK,3-Slot)	1880.0	26.91
	1909.8	27.03
	1850.2	26.47
EGPRS(GMSK,4-Slot)	1880.0	26.40
	1909.8	26.55



A2 PEAK-TO-AVERAGE RADIO

Mode	Frequency (MHz)	PEAK Power	AVG Power	PAR
	824.2	32.12	32.01	0.11
GSM850	836.6	32.10	31.98	0.12
	848.8	32.08	31.96	0.12
	824.2	31.89	31.79	0.10
GPRS850	836.6	31.86	31.75	0.11
	848.8	31.91	31.81	0.10
	824.2	31.87	31.76	0.11
EDGE850	836.6	31.84	31.73	0.11
	848.8	31.87	31.76	0.11
	1850.2	28.26	28.15	0.11
PCS1900	1880	28.24	28.13	0.11
	1909.8	28.32	28.22	0.10
	1850.2	28.19	28.09	0.10
GPRS1900	1880	28.23	28.12	0.11
	1909.8	28.25	28.15	0.10
	1850.2	28.15	28.05	0.10
EDGE1900	1880	28.19	28.09	0.10
	1909.8	28.20	28.1	0.10





A3 TRANSMITTER RADIATED POWER (EIRP/ERP)

Radiated Power (ERP) for GSM 850 MHZ							
	Result						
Mode	Frequency	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
		(dBm)	loss	(dBi)	E.R.P(dBm)	Of Max. ERP	
	824.2	23.46	0.44	6.5	29.52	Horizontal	Pass
	824.2	25.43	0.44	6.5	31.49	Vertical	Pass
COMOTO	836.6	23.43	0.45	6.5	29.48	Horizontal	Pass
GSM850	836.6	25.36	0.45	6.5	31.41	Vertical	Pass
	848.8	23.48	0.46	6.5	29.52	Horizontal	Pass
	848.8	25.35	0.46	6.5	31.39	Vertical	Pass
	824.2	23.44	0.44	6.5	29.50	Horizontal	Pass
	824.2	25.18	0.44	6.5	31.24	Vertical	Pass
GPRS850	836.6	23.36	0.45	6.5	29.41	Horizontal	Pass
GPRS650	836.6	25.18	0.45	6.5	31.23	Vertical	Pass
	848.8	23.41	0.46	6.5	29.45	Horizontal	Pass
	848.8	25.11	0.46	6.5	31.15	Vertical	Pass
	824.2	23.44	0.44	6.5	29.50	Horizontal	Pass
	824.2	25.23	0.44	6.5	31.29	Vertical	Pass
EDOE050	836.6	23.58	0.45	6.5	29.63	Horizontal	Pass
EDGE850	836.6	25.20	0.45	6.5	31.25	Vertical	Pass
	848.8	23.51	0.46	6.5	29.55	Horizontal	Pass
	848.8	25.33	0.46	6.5	31.37	Vertical	Pass



	Radiated Power (EIRP) for PCS 1900 MHZ						
		Result					
Mode	Frequency	S G.Level	Cable	Gain	PMeas	Polarization	Conclusion
		(dBm)	loss	(dBi)	E.I.R.P.(dBm)	Of Max.EIRP.	
	1850.2	17.87	2.41	10.35	25.81	Horizontal	Pass
	1850.2	19.58	2.41	10.35	27.52	Vertical	Pass
PCS1900	1880	17.61	2.42	10.35	25.54	Horizontal	Pass
PCS1900	1880	19.58	2.42	10.35	27.51	Vertical	Pass
	1909.8	17.65	2.43	10.35	25.57	Horizontal	Pass
	1909.8	19.62	2.43	10.35	27.54	Vertical	Pass
	1850.2	17.7	2.41	10.35	25.64	Horizontal	Pass
	1850.2	19.57	2.41	10.35	27.51	Vertical	Pass
GPRS1900	1880	17.79	2.42	10.35	25.72	Horizontal	Pass
GPK31900	1880	19.38	2.42	10.35	27.31	Vertical	Pass
	1909.8	17.64	2.43	10.35	25.56	Horizontal	Pass
	1909.8	19.42	2.43	10.35	27.34	Vertical	Pass
	1850.2	17.76	2.41	10.35	25.7	Horizontal	Pass
	1850.2	19.42	2.41	10.35	27.36	Vertical	Pass
EDGE1900	1880	17.65	2.42	10.35	25.58	Horizontal	Pass
EDGE 1800	1880	19.56	2.42	10.35	27.49	Vertical	Pass
	1909.8	17.77	2.43	10.35	25.69	Horizontal	Pass
	1909.8	19.61	2.43	10.35	27.53	Vertical	Pass





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

Occupied Bandwidth for GSM 850 band							
Mode	Fragueney/MHz)	Occupied Bandwidth	Emission Bandwidth				
Wode	Frequency(MHz)	(99%)(kHz)	(-26dBc)(kHz)				
Low Channel	824.2	245.63	318.4				
Middle Channel	836.6	249.26	320.4				
High Channel	848.8	244.33	309.7				
	Occupied Band	width for GPRS 850 band					
Mode	Fraguency(MHz)	Occupied Bandwidth	Emission Bandwidth				
Mode	Frequency(MHz)	(99%)(kHz)	(-26dBc)(kHz)				
Low Channel	824.2	243.18	319.0				
Middle Channel	836.6	245.29	317.4				
High Channel	848.8	243.63	320.2				
	Occupied Bandy	vidth for EGPRS 850 band					
Mada	Fragues av (MHz)	Occupied Bandwidth	Emission Bandwidth				
Mode	Frequency(MHz)	(99%)(kHz)	(-26dBc)(kHz)				
Low Channel	824.2	242.46	312.3				
Middle Channel	836.6	243.62	313.2				
High Channel	848.8	243.43	317.1				



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Occupied Bandwidth for GSM1900 band							
Mada		Occupied Bandwidth	Emission Bandwidth				
Mode	Frequency(MHz)	(99%)(kHz)	(-26dBc)(kHz)				
Low Channel	1850.2	247.64	323.3				
Middle Channel	1880.0	244.92	321.1				
High Channel	1909.8	242.59	319.4				
	Occupied Bandy	vidth for GPRS 1900 band					
N.4 . I	Fragues av (MHz)	Occupied Bandwidth	Emission Bandwidth				
Mode	Frequency(MHz)	(99%)(kHz)	(-26dBc)(kHz)				
Low Channel	1850.2	241.60	309.7				
Middle Channel	1880.0	244.64	319.1				
High Channel	1909.8	242.85	311.1				
	Occupied Bandy	vidth for EDGE 1900 band					
Mode	Fraguer av (MHz)	Occupied Bandwidth	Emission Bandwidth				
Mode	Frequency(MHz)	(99%)(kHz)	(-26dBc)(kHz)				
Low Channel	1850.2	244.86	321.2				
Middle Channel	1880.0	244.00	319.0				
High Channel	1909.8	243.80	320.5				



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







A5 FREQUENCY STABILITY

Normal Voltage = 3.8V.; Battery End Point (BEP) = 3.4 V.; Maximum Voltage =4.35 V

	GSM 850 Middle Channel/836.6MHz						
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result		
50		24.07	0.029				
40		29.43	0.035				
30	Normal Voltage	13.43	0.016				
20		14.35	0.017				
10		26.52	0.032				
0		27.67	0.033	2.5ppm	PASS		
-10		28.24	0.034				
-20		27.47	0.033				
-30		11.71	0.014				
25	Maximum Voltage	34.54	0.041				
25	BEP	15.18	0.018				

	GPRS 850 Middle Channel/836.6MHz							
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result			
50		21.03	0.025					
40		33.75	0.040					
30		29.54	0.035					
20	Normal Voltage	26.96	0.032					
10		20.53	0.025					
0		26.74	0.032	2.5ppm	PASS			
-10		20.91	0.025					
-20		23.15	0.028					
-30		18.41	0.022					
25	Maximum Voltage	17.44	0.021					
25	BEP	15.64	0.019					





EDGE 850 Middle Channel/836.6MHz						
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result	
50		26.69	0.032			
40		11.77	0.014			
30		19.50	0.023			
20		11.66	0.014			
10	Normal Voltage	25.71	0.031			
0		14.40	0.017	2.5ppm	PASS	
-10		20.86	0.025			
-20		15.76	0.019			
-30		28.83	0.034			
25	Maximum Voltage	22.22	0.027			
25	BEP	21.65	0.026			





GSM 1900 Middle Channel/1880MHz						
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result	
50		29.27	0.016			
40		16.65	0.009			
30		28.23	0.015			
20		35.26	0.019	Within Au-	PASS	
10	Normal Voltage	33.40	0.018			
0		11.85	0.006	thorized		
-10		15.17	0.008	Band		
-20		18.59	0.010			
-30	Maximum Voltage	25.04	0.013			
25		34.02	0.018			
25	BEP	30.90	0.016			

	GPRS 1900 Middle Channel/1880MHz						
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result		
50		26.92	0.014		PASS		
40		14.28	0.008				
30	Normal Voltage	17.85	0.009	Within Au- thorized Band			
20		19.00	0.010				
10		29.74	0.016				
0		34.55	0.018				
-10		14.88	0.008				
-20		20.00	0.011				
-30	Maximum Voltage	19.15	0.010				
25		29.92	0.016				
25	BEP	23.11	0.012				





	EDGE 1900 Middle Channel/1880MHz							
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result			
50		31.74	0.017		PASS			
40		18.58	0.010	Within Au- thorized Band				
30	Normal Voltage	23.97	0.013					
20		33.09	0.018					
10		35.53	0.019					
0		33.03	0.018					
-10		13.16	0.007					
-20		12.68	0.007					
-30	Maximum Voltage	13.55	0.007					
25		36.07	0.019					
25	BEP	31.20	0.017					

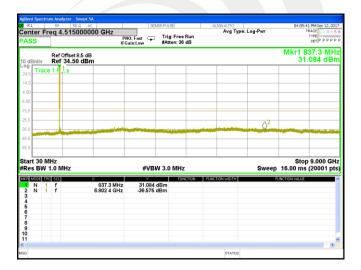


A6 SPURIOUS EMISSIONS AT ANTENNA TERMINALS GSM 850 BAND

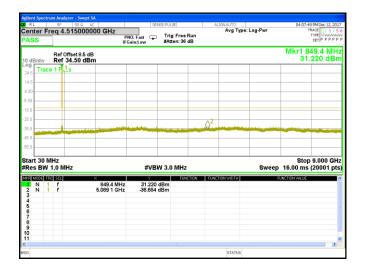
Lowest Channel



Middle Channel



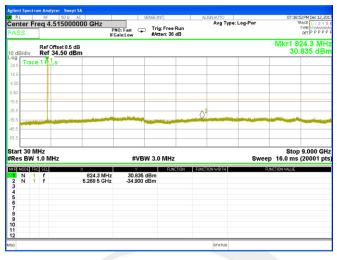
Highest Channel



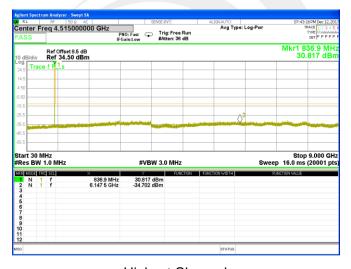


GPRS 850 BAND

Lowest Channel



Middle Channel

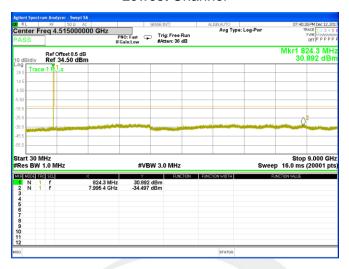




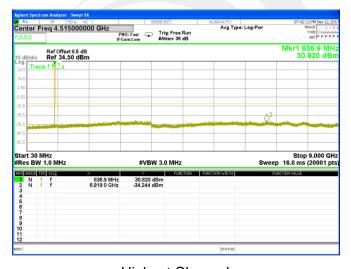


EDGE 850 BAND

Lowest Channel



Middle Channel

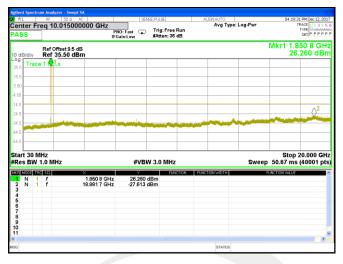




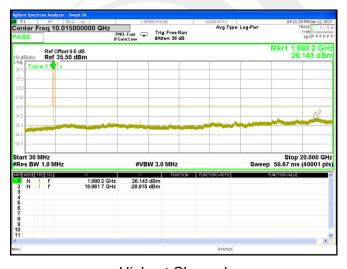


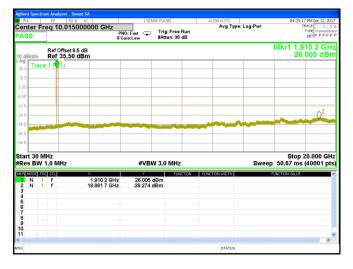
GSM1900 BAND(30M-20G)

Lowest Channel



Middle Channel

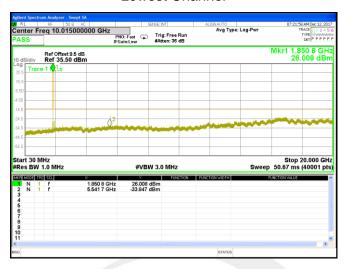






GPRS1900 BAND(30M-20G)

Lowest Channel



Middle Channel

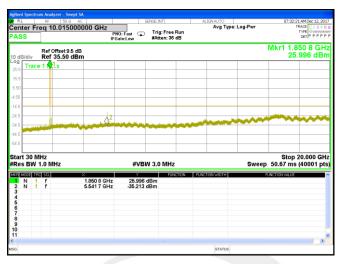






EDGE 1900 BAND(30M-20G)

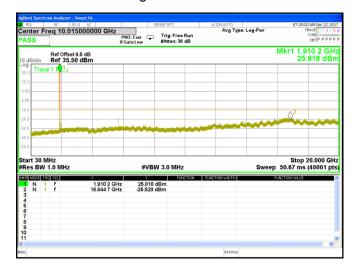
Lowest Channel



Middle Channel



Highest 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







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

VI 850: (30-9000)MF	IZ						
		GSM	850: (30-9	000)MHz			
	The W	orst Test R	esults Cha	annel 128/	824.2 MHz		
Frequency(MHz)	S G.Lev	Ant(dBi) Loss -	Loop	PMea	Limit	Margin	Polarity
r requericy(ivii iz)	(dBm)		(dBm)	(dBm)	(dB)	Folality	
1648.01	-41.32	9.40	4.75	-36.67	-13.00	-23.67	Н
2472.24	-40.61	10.60	8.39	-38.40	-13.00	-25.40	Н
3296.45	-31.85	12.00	11.79	-31.64	-13.00	-18.64	Н
1648.37	-43.94	9.40	4.75	-39.29	-13.00	-26.29	V
2472.27	-44.53	10.60	8.39	-42.32	-13.00	-29.32	V
3296.78	-43.07	12.00	11.79	-42.86	-13.00	-29.86	V
	The W	orst Test R	esults Cha	annel 190/	836.6 MHz		
(5.41.1.)	S G.Lev	A ((15))	nt(dBi) Loss -	PMea	Limit	Margin	Polarity
Frequency(MHz)	(dBm)	Ant(dBI)		(dBm)	(dBm)	(dB)	
1673.08	-40.14	9.50	4.76	-35.40	-13.00	-22.40	Н
2509.57	-40.24	10.70	8.40	-37.94	-13.00	-24.94	Н
3346.36	-31.34	12.20	11.80	-30.94	-13.00	-17.94	Н
1672.84	-44.43	9.40	4.75	-39.78	-13.00	-26.78	V
2509.55	-45.04	10.60	8.39	-42.83	-13.00	-29.83	V
3346.07	-43.60	12.20	11.82	-43.22	-13.00	-30.22	V
	The W	orst Test R	esults Cha	annel 251/	848.8 MHz		
	S G.Lev	A 4 (-ID:)		PMea	Limit	Margin	Polarity
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	
1697.30	-40.22	9.60	4.77	-35.39	-13.00	-22.39	Н
2546.30	-40.01	10.80	8.50	-37.71	-13.00	-24.71	Н
3394.94	-30.93	12.50	11.90	-30.33	-13.00	-17.33	Н
1697.23	-44.48	9.60	4.77	-39.65	-13.00	-26.65	V
2546.10	-44.54	10.80	8.50	-42.24	-13.00	-29.24	V
3395.32	-43.32	12.50	11.90	-42.72	-13.00	-29.72	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

GPRS 850: (30-9000)MHz									
The Worst Test Results Channel 128/824.2 MHz									
- (141)	S G.Lev	4 ((171)	Loss	PMea	Limit	Margin	Polarity		
Frequency(MHz)	(dBm)	Ant(dBi)		(dBm)	(dBm)	(dB)			
1648.33	-41.09	9.40	4.75	-36.44	-13.00	-23.44	Н		
2472.49	-39.53	10.60	8.39	-37.32	-13.00	-24.32	Н		
3296.89	-31.65	12.00	11.79	-31.44	-13.00	-18.44	Н		
1648.30	-43.32	9.40	4.75	-38.67	-13.00	-25.67	V		
2472.23	-44.17	10.60	8.39	-41.96	-13.00	-28.96	V		
3296.90	-42.65	12.00	11.79	-42.44	-13.00	-29.44	V		
	The W	orst Test R	esults Ch	annel 190/	836.6 MHz				
Frequency(MHz)	S G.Lev	Ant(dBi) Le	Loop	PMea	Limit	Margin	Polarity		
Frequency(MHZ)	(dBm)		Loss	(dBm)	(dBm)	(dB)	Polarity		
1673.03	-41.17	9.50	4.76	-36.43	-13.00	-23.43	Н		
2509.81	-40.35	10.70	8.40	-38.05	-13.00	-25.05	Н		
3346.05	-31.71	12.20	11.80	-31.31	-13.00	-18.31	Н		
1672.95	-43.59	9.40	4.75	-38.94	-13.00	-25.94	V		
2509.44	-44.71	10.60	8.39	-42.50	-13.00	-29.50	V		
3346.12	-43.74	12.20	11.82	-43.36	-13.00	-30.36	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		
i requericy(ivii iz)	(dBm)	Ant(abi)	L055	(dBm)	(dBm)	(dB)			
1697.60	-41.14	9.60	4.77	-36.31	-13.00	-23.31	Н		
2546.44	-40.38	10.80	8.50	-38.08	-13.00	-25.08	Н		
3395.29	-31.49	12.50	11.90	-30.89	-13.00	-17.89	Н		
1697.47	-44.03	9.60	4.77	-39.20	-13.00	-26.20	V		
2546.09	-44.92	10.80	8.50	-42.62	-13.00	-29.62	V		
3394.87	-43.82	12.50	11.90	-43.22	-13.00	-30.22	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

EGPRS 850: (30-9000)MHz									
The Worst Test Results Channel 128/824.2 MHz									
	S G.Lev	A 4 (-ID :)	•	PMea	Limit	Margin	Polarity		
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)			
1648.05	-40.28	9.40	4.75	-35.63	-13.00	-22.63	Н		
2472.41	-39.91	10.60	8.39	-37.70	-13.00	-24.70	Н		
3296.73	-31.50	12.00	11.79	-31.29	-13.00	-18.29	Н		
1648.25	-43.88	9.40	4.75	-39.23	-13.00	-26.23	V		
2472.60	-44.65	10.60	8.39	-42.44	-13.00	-29.44	V		
3296.46	-43.36	12.00	11.79	-43.15	-13.00	-30.15	V		
	The Worst Test Results Channel 190/836.6 MHz								
Fraguenov(MHz)	S G.Lev	Ant(dBi) Los	Long	PMea	Limit	Margin	Polarity		
Frequency(MHz)	(dBm)		LUSS	(dBm)	(dBm)	(dB)			
1672.97	-40.50	9.50	4.76	-35.76	-13.00	-22.76	Н		
2509.64	-39.25	10.70	8.40	-36.95	-13.00	-23.95	Н		
3346.36	-31.05	12.20	11.80	-30.65	-13.00	-17.65	Н		
1672.90	-44.37	9.40	4.75	-39.72	-13.00	-26.72	V		
2509.63	-44.98	10.60	8.39	-42.77	-13.00	-29.77	V		
3345.98	-43.73	12.20	11.82	-43.35	-13.00	-30.35	V		
	The W	orst Test R	esults Ch	annel 251/8	848.8 MHz				
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Dalaritu		
Frequency(MHZ)	(dBm)	Anti(ubi)	L088	(dBm)	(dBm)	(dB)	Polarity		
1697.56	-40.40	9.60	4.77	-35.57	-13.00	-22.57	Н		
2546.17	-40.52	10.80	8.50	-38.22	-13.00	-25.22	Н		
3395.04	-31.44	12.50	11.90	-30.84	-13.00	-17.84	Н		
1697.64	-43.81	9.60	4.77	-38.98	-13.00	-25.98	V		
2546.33	-44.79	10.80	8.50	-42.49	-13.00	-29.49	V		
3395.06	-42.78	12.50	11.90	-42.18	-13.00	-29.18	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

5 1900: (30-20000)		DCS 1	900: (30-20	0000)MHz					
The Worst Test Results for Channel 512/1850.2MHz									
	S G.Lev	Ant(dBi)		PMea	Limit	Margin	Polarity		
Frequency(MHz)	(dBm)		Loss	(dBm)	(dBm)	(dB)			
3700.18	-34.18	12.60	12.93	-34.51	-13.00	-21.51	Н		
5550.46	-35.01	13.10	17.11	-39.02	-13.00	-26.02	Н		
7400.46	-33.50	11.50	22.20	-44.20	-13.00	-31.20	Н		
3700.51	-35.74	12.60	12.93	-36.07	-13.00	-23.07	V		
5550.38	-35.00	13.10	17.11	-39.01	-13.00	-26.01	V		
7400.96	-32.74	11.50	22.20	-43.44	-13.00	-30.44	V		
	The Wor	st Test Res	sults for C	hannel 661	I/1880.0MH	Z			
Fraguenov/MHz)	S G.Lev	Λnt/dDi\		PMea	Limit	Margin	Polarity		
Frequency(MHz)	(dBm)	Ant(dBi) L	Loss	(dBm)	(dBm)	(dB)			
3759.97	-33.90	12.60	12.93	-34.23	-13.00	-21.23	Н		
5639.90	-34.42	13.10	17.11	-38.43	-13.00	-25.43	Н		
7520.08	-32.27	11.50	22.20	-42.97	-13.00	-29.97	Н		
3760.01	-35.04	12.60	12.93	-35.37	-13.00	-22.37	V		
5640.33	-35.06	13.10	17.11	-39.07	-13.00	-26.07	V		
7519.90	-33.08	11.50	22.20	-43.78	-13.00	-30.78	V		
	The Wor	st Test Res	sults for C	hannel 810	D/1909.8MH	z			
Frequency(MHz)	S G.Lev	۸ nt/dDi)	Loss	PMea	Limit	Margin	Dolority		
Frequency(MHZ)	(dBm)	Ant(dBi)	L088	(dBm)	(dBm)	(dB)	Polarity		
3819.26	-34.21	12.60	12.93	-34.54	-13.00	-21.54	Н		
5729.32	-35.25	13.10	17.11	-39.26	-13.00	-26.26	Н		
7639.20	-32.44	11.50	22.20	-43.14	-13.00	-30.14	Н		
3819.38	-35.95	12.60	12.93	-36.28	-13.00	-23.28	V		
5729.20	-34.60	13.10	17.11	-38.61	-13.00	-25.61	V		
7639.17	-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.



GPRS 1900: (30-20000)MHz

RS 1900: (30-20000	J)IVIHZ								
		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		
r requericy(ivii iz)	(dBm)		L055	(dBm)	(dBm)	(dB)	Folarity		
3700.12	-33.94	12.60	12.93	-34.27	-13.00	-21.27	Н		
5550.19	-35.15	13.10	17.11	-39.16	-13.00	-26.16	Н		
7400.90	-32.68	11.50	22.20	-43.38	-13.00	-30.38	Н		
3700.51	-34.60	12.60	12.93	-34.93	-13.00	-21.93	V		
5550.64	-35.10	13.10	17.11	-39.11	-13.00	-26.11	V		
7400.61	-33.07	11.50	22.20	-43.77	-13.00	-30.77	V		
The Worst Test Results for Channel 661/1880.0MHz									
	S G.Lev	Ant(dBi)	Loss —	PMea	Limit	Margin	Polarity		
Frequency(MHz)	(dBm)			(dBm)	(dBm)	(dB)			
3760.02	-34.06	12.60	12.93	-34.39	-13.00	-21.39	Н		
5639.84	-34.01	13.10	17.11	-38.02	-13.00	-25.02	Н		
7520.10	-33.61	11.50	22.20	-44.31	-13.00	-31.31	Н		
3760.34	-35.15	12.60	12.93	-35.48	-13.00	-22.48	V		
5639.94	-34.99	13.10	17.11	-39.00	-13.00	-26.00	V		
7520.24	-33.10	11.50	22.20	-43.80	-13.00	-30.80	V		
	The Wor	st Test Res	sults for C	hannel 810)/1909.8MH	z			
Frequency(MHz)	S G.Lev	Ant/dDi\		PMea	Limit	Margin	Dolority		
Frequency(MHZ)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dB)	Polarity		
3819.64	-34.60	12.60	12.93	-34.93	-13.00	-21.93	Н		
5729.03	-34.92	13.10	17.11	-38.93	-13.00	-25.93	Н		
7638.97	-32.56	11.50	22.20	-43.26	-13.00	-30.26	Н		
3819.55	-35.05	12.60	12.93	-35.38	-13.00	-22.38	V		
5729.50	-35.09	13.10	17.11	-39.10	-13.00	-26.10	V		
7639.35	-31.77	11.50	22.20	-42.47	-13.00	-29.47	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

GE 1900: (30-2000)	- /	EGPRS	1900: (30-	20000)MH	Z				
The Worst Test Results for Channel 512/1850.2MHz									
F.,	S G.Lev	Ant(dBi)		PMea	Limit	Margin	5		
Frequency(MHz)	(dBm)		Loss	(dBm)	(dBm)	(dB)	Polarity		
3700.08	-34.34	12.60	12.93	-34.67	-13.00	-21.67	Н		
5550.65	-35.49	13.10	17.11	-39.50	-13.00	-26.50	Н		
7400.53	-33.36	11.50	22.20	-44.06	-13.00	-31.06	Н		
3700.51	-35.89	12.60	12.93	-36.22	-13.00	-23.22	V		
5550.21	-34.21	13.10	17.11	-38.22	-13.00	-25.22	V		
7400.59	-32.42	11.50	22.20	-43.12	-13.00	-30.12	V		
The Worst Test Results for Channel 661/1880.0MHz									
- (1411)	S G.Lev	Ant(dBi) Lo	Lana	PMea	Limit	Margin	Polarity		
Frequency(MHz)	(dBm)		Loss	(dBm)	(dBm)	(dB)			
3759.89	-34.71	12.60	12.93	-35.04	-13.00	-22.04	Н		
5640.21	-34.32	13.10	17.11	-38.33	-13.00	-25.33	Н		
7520.30	-32.88	11.50	22.20	-43.58	-13.00	-30.58	Н		
3760.08	-35.79	12.60	12.93	-36.12	-13.00	-23.12	V		
5640.17	-35.22	13.10	17.11	-39.23	-13.00	-26.23	V		
7519.93	-32.49	11.50	22.20	-43.19	-13.00	-30.19	V		
	The Wor	st Test Res	sults for C	hannel 810	D/1909.8MH	z			
Fraguenov/MHz)	S G.Lev	۸ nt/dDi\	Loss	PMea	Limit	Margin	Dolority		
Frequency(MHz)	(dBm)	Ant(dBi)	LUSS	(dBm)	(dBm)	(dB)	Polarity		
3819.62	-33.90	12.60	12.93	-34.23	-13.00	-21.23	Н		
5729.39	-34.83	13.10	17.11	-38.84	-13.00	-25.84	Н		
7639.09	-32.43	11.50	22.20	-43.13	-13.00	-30.13	Н		
3819.48	-34.61	12.60	12.93	-34.94	-13.00	-21.94	V		
5729.25	-34.00	13.10	17.11	-38.01	-13.00	-25.01	V		
7639.18	-32.96	11.50	22.20	-43.66	-13.00	-30.66	V		

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

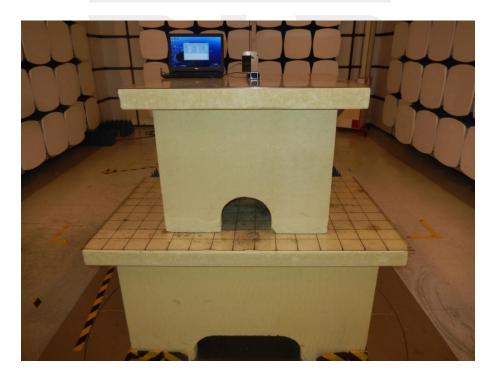
(2)Above 8GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has.



APPENDIX BPHOTOS OF TEST SETUP

RADIATED SPURIOUS EMISSION





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