

TEST REPORT

No. I14Z47765-EMC02

for

TCT Mobile Limited

HSUPA/HSDPA/UMTS triband/GSM quadband mobile phone

Model Name: Yaris-4.5 US 1SIM ATV

Marketing Name: ONE TOUCH 5036A

FCC ID: RAD412

with

Hardware Version: Lot1

Software Version: v4F16

Issued Date: 2014-12-01

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

FCC 2.948 Listed: No. 525429

CTTL, Telecommunication Technology Labs, Academy of Telecommunication Research, MIIT

No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191.

Tel: +86(0)10-62304633-2512, Fax: +86(0)10-62304633-2504

Email: cttl_terminals@catr.cn, website: www.chinattl.com



REPORT HISTORY

Report Number Revision		Description	Issue Date	
I14Z47765-EMC02	Rev.0	1st edition	2014-12-01	



CONTENTS

1.	TEST LABORATORY	4
1.1.	TESTING LOCATION	4
1.2.	TESTING ENVIRONMENT	4
1.3.	PROJECT DATA	4
1.4.	SIGNATURE	4
2.	CLIENT INFORMATION	5
2.1.	APPLICANT INFORMATION	5
2.2.	MANUFACTURER INFORMATION	5
3.	EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE)	6
3.1.	ABOUT EUT	6
3.2.	INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST	6
3.3.	INTERNAL IDENTIFICATION OF AE USED DURING THE TEST	6
3.4.	NORMAL ACCESSORY SETTING	7
3.5.	GENERAL DESCRIPTION	7
4.	REFERENCE DOCUMENTS	8
4.1.	REFERENCE DOCUMENTS FOR TESTING	8
5.	LABORATORY ENVIRONMENT	9
6.	SUMMARY OF TEST RESULTS	10
7.	TEST EQUIPMENTS UTILIZED	.11
AN	NEX A: MEASUREMENT RESULTS	12
A	A.1 OUTPUT POWER	12
Α	A.2 EMISSION LIMIT	16



1. Test Laboratory

1.1. Testing Location

Location 1: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,

P. R. China 100191

1.2. <u>Testing Environment</u>

Normal Temperature: $15-35^{\circ}$ C Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2014-10-23 Testing End Date: 2014-11-05

1.4. Signature

屈鹏と

Qu Pengfei

(Prepared this test report)

Sun Xiangqian

(Reviewed this test report)

Lu Bingsong

路城村

Director of the laboratory

(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: TCT Mobile Limited

Address /Post: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,

Pudong Area Shanghai, P.R. China.

City: Shanghai Postal Code: 201203 Country: China

Contact Person: Gong Zhizhou

Contact Email zhizhou.gong@jrdcom.com

Telephone: 0086-21-61460890 Fax: 0086-21-61460602

2.2. Manufacturer Information

Company Name: TCT Mobile Limited

Address /Post: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,

Pudong Area Shanghai, P.R. China.

City: Shanghai Postal Code: 201203 Country: China

Telephone: 0086-21-61460890 Fax: 0086-21-61460602



3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description HSUPA/HSDPA/UMTS triband/GSM quadband mobile phone

Model Name Yaris-4.5 US 1SIM ATV
Marketing Name ONE TOUCH 5036A

FCC ID RAD412 Antenna Integrated

Output power 31.11dBm maximum EIRP measured for PCS1900

Extreme vol. Limits 3.5VDC to 4.2VDC (nominal: 3.8VDC)

Extreme temp. Tolerance -30°C to +50°C

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL, Telecommunication Technology Labs, Academy of Telecommunication Research, MIIT

3.2. Internal Identification of EUT used during the test

EUT ID* IMEI HW Version SW Version

EUT1 014170009146049 Lot1 v4F16

3.3. Internal Identification of AE used during the test

AE ID*	Description	SN	Remarks
AE1	Battery	/	14TCT-BA-0973
AE2	Battery	/	14TCT-BA-0971
AE3	Battery	/	14TCT-BA-0961
AE4	Battery	/	14TCT-BA-0841
AE5	Battery	/	14TCT-BA-0819
AE6	Battery	/	14TCT-BA-0813
AE7	USB cable	/	14TCT-DC-0679
AE8	USB cable	/	14TCT-DC-0613
AE9	Travel	/	14TCT-CH-1520
AE10	Travel	/	14TCT-CH-0590
AE11	Travel	/	14TCT-CH-1867
AE12	Travel	/	14TCT-CH-1876

AE1,AE2,AE3

Model CAB32E0000C1

Manufacturer BYD
Capacitance 1800 mAh
Nominal voltage 3.7 V

^{*}EUT ID: is used to identify the test sample in the lab internally.



AE4,AE5,AE6

Model CAB32E0000C2

Manufacturer SCUD
Capacitance 1800 mAh
Nominal voltage 3.7 V

AE7

Model CDA3122002C2

Manufacturer Shenhua Length of cable 98cm

AE8

Model CDA3122002C1

Manufacturer JUWEI Length of cable 99cm

AE9,AE10

Model CBA3007AG0C1

Manufacturer BYD Length of cable /

AE11,AE12

Model CBA3007AG0C2

Manufacturer TEN PAO

Length of cable /

3.4. Normal Accessory setting

Fully charged battery was used during the test.

3.5. General Description

The Equipment Under Test (EUT) is a model of HSUPA/HSDPA/UMTS triband/GSM quadband mobile phone with integrated antenna. Manual and specifications of the EUT were provided to fulfil the test.

^{*}AE ID: is used to identify the test sample in the lab internally.



4. Reference Documents

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
Reference	riue	version
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	10-1-13
		Edition
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-13
		Edition
ANSI/TIA-603-C	Land Mobile FM or PM Communications Equipment	2004
	Measurement and Performance Standards	
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from	2009
	Low-Voltage Electrical and Electronic Equipment in the	
	Range of 9 kHz to 40 GHz	
KDB 971168 D01	Measurement Guidance for Certification of Licensed Digital	v02r01
	Transmitters	



5. LABORATORY ENVIRONMENT

Fully-anechoic chamber FAC-3 (9 meters × 6.5 meters × 4 meters) did not exceed following limits along the EMC testing:

3	
Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB;
	1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	<4 Ω
Site voltage standing-wave ratio (S _{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 4000 MHz

Shielded room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB;
	1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4 Ω



6. SUMMARY OF TEST RESULTS

Items	List	List Clause in FCC rules				
1	Output Power	22.913(a)/24.232(c)	Р			
2	Emission Limit	2.1051/22.917/24.238	Р			



7. Test Equipments Utilized

NO.	Description	TYPE	series number	MANUFACTURE	CAL DUE DATE	Calibration interval
1	EMI Antenna	VULB 9163	9163-234 Schwarzbeck		2016-09-15	3 year
2	Universal Radio Communication Tester	E5515C	MY48363198	Agilent	2015-07-06	1 year
3	Spectrum Analyzer	E4440A	MY48250642	Agilent	2015-02-27	1 year
4	EMI Antenna	9117	167	Schwarzbeck	2016-04-01	3 year
5	EMI Antenna	3117	00058889	ETS-Lindgren	2014-12-20	3 year
6	Signal Generator	N5183A	MY49060052	Agilent	2015-03-02	1 year
7	Power Amplifier	5S1G4	0341863	AR	1	/



ANNEX A: MEASUREMENT RESULTS

A.1 OUTPUT POWER

A.1.1 Summary

During the process of testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication tester (CMU-200) to ensure max power transmission and proper modulation. This result contains output power and EIRP measurements for the EUT. In all cases, output power is within the specified limits.

A.1.2 Radiated

A.1.2.1 Description

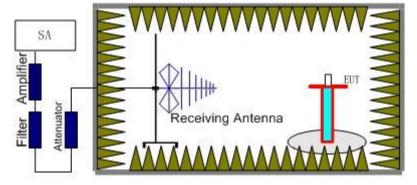
This is the test for the maximum radiated power from the EUT.

Rule Part 24.232(c) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power" and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage." Rule Part 22.913(a) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts."

A.1.2.2 Method of Measurement

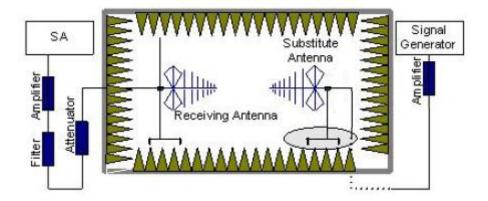
The measurements procedures in TIA-603C-2004 are used.

1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.



- 2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
- 3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.





In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna.

The cable loss (P_{cl}) ,the Substitution Antenna Gain (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test.

The measurement results are obtained as described below:

Power(EIRP)=P_{Mea}- P_{Ag} - P_{cl} - G_a

- 5. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
- 6. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.



GSM 850-ERP 22.913(a)

Limits

	Power Step	Burst Peak ERP (dBm)
GSM	5	≤38.45dBm (7W)
GPRS	3	≤38.45dBm (7W)
EGPRS	6	≤38.45dBm (7W)

Measurement result

GSM

Frequency (MHz)	PMea (dBm)	Pcl (dB)	PAg(dB)	Ga Antenna Gain(dB)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
824.20	-9.62	2.26	-45.79	0.84	2.15	30.92	38.45	7.53	Н
836.60	-9.96	2.26	-45.66	0.90	2.15	30.39	38.45	8.06	Н
848.80	-10.37	2.28	-45.54	0.95	2.15	29.79	38.45	8.66	Н

GPRS

Frequency (MHz)	PMea (dBm)	Pcl (dB)	PAg(dB)	Ga Antenna Gain(dB)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
824.20	-9.70	2.26	-45.79	0.84	2.15	30.84	38.45	7.61	Н
836.60	-10.03	2.26	-45.66	0.90	2.15	30.32	38.45	8.13	Н
848.80	-10.39	2.28	-45.54	0.95	2.15	29.77	38.45	8.68	Н

EGPRS

Frequency (MHz)	PMea (dBm)	Pcl (dB)	PAg(dB)	Ga Antenna Gain(dB)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
824.20	-9.56	2.26	-45.79	0.84	2.15	30.98	38.45	7.47	Н
836.60	-9.90	2.26	-45.66	0.90	2.15	30.45	38.45	8.00	Н
848.80	-10.35	2.28	-45.54	0.95	2.15	29.81	38.45	8.64	Н

Frequency: 824.20MHz

 $Peak \; ERP(dBm) = P_{Mea}(-9.56dBm) - P_{cl}(2.26dB) - P_{Ag}(-45.79\; dB) - G_a \; (0.84dB) - 2.15dB = 30.98dBm$

ANALYZER SETTINGS: RBW = VBW = 3MHz



PCS1900-EIRP 24.232(c)

Limits

	Power Step	Burst Peak EIRP (dBm)
GSM	0	≤33dBm (2W)
GPRS	3	≤33dBm (2W)
EGPRS	5	≤33dBm (2W)

Measurement result

GSM

Frequency (MHz)	PMea (dBm)	Pcl (dB)	PAg (dB)	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarizatio n
1850.20	-17.58	2.93	-43.75	-4.56	27.80	33.00	5.20	Н
1880.00	-14.65	2.85	-43.75	-4.43	30.68	33.00	2.32	Н
1909.80	-14.12	2.89	-43.77	-4.30	31.06	33.00	1.94	Н

GPRS

Frequency (MHz)	PMea (dBm)	Pcl (dB)	PAg (dB)	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1850.20	-17.57	2.93	-43.75	-4.56	27.81	33.00	5.19	Н
1880.00	-14.64	2.85	-43.75	-4.43	30.69	33.00	2.31	Н
1909.80	-14.08	2.89	-43.77	-4.30	31.10	33.00	1.90	Н

EGPRS

Frequency (MHz)	PMea (dBm)	Pcl (dB)	PAg (dB)	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1850.20	-17.56	2.93	-43.75	-4.56	27.82	33.00	5.18	Н
1880.00	-14.63	2.85	-43.75	-4.43	30.70	33.00	2.30	Н
1909.80	-14.07	2.89	-43.77	-4.30	31.11	33.00	1.89	Н

Frequency: 1909.80MHz

 $Peak \; EIRP(dBm) = P_{Mea}(-14.07dBm) \; - \; P_{cl}(2.89dB) \; - \; P_{Ag}(-43.77dB) \; - \; G_a \; (-4.30dB) \; = \\ 31.11dBm \; - \; P_{cl}(-43.77dB) \; - \; P_{cl}(-43$

ANALYZER SETTINGS: RBW = VBW = 3MHz



A.2 EMISSION LIMIT

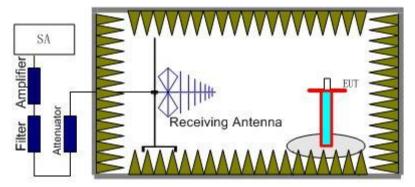
A.2.1 Measurement Method

The measurement procedures in TIA-603C-2004 are used.

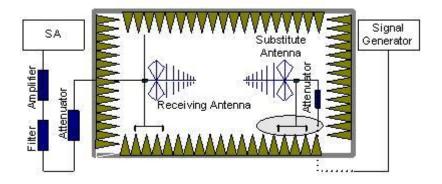
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz. The resolution bandwidth is set as outlined in Part 24.238 and Part 22.917. The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of PCS1900 and GSM850.

The procedure of radiated spurious emissions is as follows:

1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



- 2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
- 3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere



with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. The Path loss (P_{pl}) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain (G_a) should be recorded after test.

A amplifier should be connected in for the test.

The Path loss (Ppl) is the summation of the cable loss and the gain of the amplifier.

The measurement results are obtained as described below:

Power(EIRP)=P_{Mea} - P_{pl} - G_a

- 5. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
- 6. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.

A.2.2 Measurement Limit

Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the PCS1900 band (1850.2 MHz, 1880 MHz and 1909.8 MHz) and GSM850 band (824.2MHz, 836.6MHz, 848.8MHz). It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the PCS1900 ,GSM850 into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.



A.2.4 Measurement Results Table

Frequency	Channel	Frequency Range	Result
GSM 850MHz	Low	30MHz-10GHz	Pass
	Middle	30MHz-10GHz	Pass
	High	30MHz-10GHz	Pass
GSM 1900MHz	Low	30MHz-20GHz	Pass
	Middle	30MHz-20GHz	Pass
	High	30MHz-20GHz	Pass

A.2.5 Sweep Table

Working Frequency	Subrange (GHz)	RBW	VBW	Sweep time (s)
	0.03~1	100KHz	300KHz	10
	1-2	1 MHz	3 MHz	2
850MHz	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
	8~10	1 MHz	3 MHz	3
	0.03~1	100KHz	300KHz	10
	1-2	1 MHz	3 MHz	2
	2~5	1 MHz	3 MHz	3
1900MHz	5~8	1 MHz	3 MHz	3
1900MHZ	8~11	1 MHz	3 MHz	3
	11~14	1 MHz	3 MHz	3
	14~18	1 MHz	3 MHz	3
	18~20	1 MHz	3 MHz	2



GSM Mode Channel 128/824.2MHz

Frequency	P _{Mea}	Path	Antenna	Correction	Peak	Limit	Margin(dD)	Polarization	
(MHz)	(dBm)	Loss	Gain	(dB)	ERP(dBm)	(dBm)	Margin(dB)	1 Glanzation	
1648.39	-42.75	2.91	-5.45	2.15	-42.36	-13.00	29.36	V	
3300.46	-58.69	4.20	-7.42	2.15	-57.62	-13.00	44.62	Н	
4138.83	-60.14	4.67	-8.58	2.15	-58.38	-13.00	45.38	V	
4967.30	-58.80	5.11	-9.64	2.15	-56.42	-13.00	43.42	Н	
5768.84	-54.92	5.69	-10.11	2.15	-52.65	-13.00	39.65	Н	
7418.08	-55.80	6.40	-11.35	2.15	-53.00	-13.00	40.00	Н	

GSM Mode Channel 190/836.6MHz

Frequency	P _{Mea}	Path	Antenna	Correction	Peak	Limit	Margin(dB)	Polarization				
(MHz)	(dBm)	Loss	Gain	(dB)	ERP(dBm)	(dBm)	iviargiri(ub)	i dianzalidh				
1672.98	-42.21	2.97	-5.34	2.15	-41.99	-13.00	28.99	V				
3342.60	-58.69	4.21	-7.52	2.15	-57.53	-13.00	44.53	Н				
4205.96	-59.20	4.74	-8.62	2.15	-57.47	-13.00	44.47	V				
5025.17	-58.88	5.16	-9.72	2.15	-56.47	-13.00	43.47	V				
5838.94	-57.50	5.73	-10.14	2.15	-55.24	-13.00	42.24	V				
6706.63	-58.00	6.08	-10.81	2.15	-55.42	-13.00	42.42	V				

GSM Mode Channel 251/848.8MHz

Frequency (MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Correction (dB)	Peak ERP(dBm)	Limit (dBm)	Margin(dB)	Polarization
1697.60	-47.22	2.95	-5.23	2.15	-47.09	-13.00	34.09	V
3395.48	-57.11	4.22	-7.65	2.15	-55.83	-13.00	42.83	V
4259.44	-59.04	4.79	-8.66	2.15	-57.32	-13.00	44.32	Н
5082.86	-59.06	5.20	-9.75	2.15	-56.66	-13.00	43.66	Н
5941.81	-51.15	5.52	-10.18	2.15	-48.64	-13.00	35.64	Н
7639.46	-59.23	6.72	-11.54	2.15	-56.56	-13.00	43.56	Н



GSM Mode Channel 512/1850.2MHz

Frequency (MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Margin(dB)	Polarization
3729.47	-58.31	4.43	-8.18	-54.56	-13.00	41.56	Н
5563.11	-59.87	5.43	-10.03	-55.27	-13.00	42.27	V
7433.22	-59.81	6.40	-11.36	-54.85	-13.00	41.85	Н
9329.39	-59.29	7.68	-12.60	-54.37	-13.00	41.37	Н
11253.64	-53.24	8.40	-12.40	-49.24	-13.00	36.24	V
12980.78	-54.52	8.92	-13.28	-50.16	-13.00	37.16	V

GSM Mode Channel 661/1880.0MHz

Frequency (MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Margin(dB)	Polarization
3760.15	-50.92	4.52	-8.21	-47.23	-13.00	34.23	Н
5639.85	-55.08	5.45	-10.06	-50.47	-13.00	37.47	Н
7519.85	-53.50	6.81	-11.42	-48.89	-13.00	35.89	Н
9419.77	-58.41	7.43	-12.60	-53.24	-13.00	40.24	Н
11269.11	-57.02	8.44	-12.40	-53.06	-13.00	40.06	Н
13184.66	-53.88	9.34	-13.48	-49.74	-13.00	36.74	Н

GSM Mode Channel 810/1909.8MHz

Frequency (MHz)	P _{Mea} (dBm)	Path Loss	Antenna Gain	Peak EIRP(dBm)	Limit (dBm)	Margin(dB)	Polarization
3819.53	-54.23	4.49	-8.28	-50.44	-13.00	37.44	Н
5729.13	-52.24	5.55	-10.09	-47.70	-13.00	34.70	V
7625.71	-58.13	6.84	-11.53	-53.44	-13.00	40.44	Н
9549.43	-56.38	7.79	-12.58	-51.59	-13.00	38.59	Н
11390.44	-56.14	8.66	-12.40	-52.40	-13.00	39.40	V
13294.53	-53.12	9.06	-13.59	-48.59	-13.00	35.59	V

END OF REPORT