





TEST REPORT

No.I19Z61261-EMC02

for

TCL Communication Ltd.

HSUPA/HSDPA/UMTS Bi-Bands/GSM Quad-Bands/LTE 7

Bands/CDMA Tri-bands mobile phone

Model Name: 4053S

FCC ID: 2ACCJN033

with

Hardware Version: 05

Software Version: 1A38

Issued Date: 2019-10-12

Note:

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The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S.Government.

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REPORT HISTORY

Report Number	Revision	Description	Issue Date	
I19Z61261-EMC02	Rev.0	1st edition	2019-10-12	

Note: the latest revision of the test report supersedes all previous version.





CONTENTS

1.	T	EST LABORATORY	4
1.1	•	INTRODUCTION & ACCREDITATION	4
1.2	•	TESTING LOCATION	4
1.3		TESTING ENVIRONMENT	5
1.4		PROJECT DATA	5
1.5	•	SIGNATURE	5
2.	C	LIENT INFORMATION	6
2.1	•	APPLICANT INFORMATION	6
2.2	•	MANUFACTURER INFORMATION	6
3.	E	QUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE)	7
3.1	•	ABOUT EUT	7
3.2	•	INTERNAL IDENTIFICATION OF EUT	7
3.3	•	INTERNAL IDENTIFICATION OF AE	7
4.	R	EFERENCE DOCUMENTS	8
4.1	•	REFERENCE DOCUMENTS FOR TESTING	8
5.	L	ABORATORY ENVIRONMENT	9
6.	S	UMMARY OF TEST RESULTS	10
6.1	•	SUMMARY OF TEST RESULTS	
6.2	•	STATEMENTS	10
7.	T	EST FACILITIES UTILIZED	.11
TE	ST	SOFTWARE UTILIZED	.11
8.	M	IEASUREMENT UNCERTAINTY	.11
AN	INE	X A: DETAILED TEST RESULTS	. 12
-	A .1	OUTPUT POWER	
		EMISSION LIMT	
AN	INE	X B: PERSONS INVOLVED IN THIS TESTING	. 19





1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2005 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

1.2. <u>Testing Location</u>

Location 2: CTTL(Shouxiang)

Address: No. 51 Shouxiang Science Building, Xueyuan Road,

Haidian District, Beijing, P. R. China 100191

Location 3:CTTL (BDA)

Address: No.18A, Kangding Street, Beijing Economic-Technology

Development Area, Beijing, P. R. China 100176





1.3. <u>Testing Environment</u>

Normal Temperature:

15 25%

Extreme Temperature:

-10/+55°C

Relative Humidity:

20-75%

1.4. Project data

2019-08-06

Testing Start Date: Testing End Date:

2019-08-30

1.5. Signature

张

颖

Zhang Ying

(Prepared this test report)

正公青

Wang Junqing

(Reviewed this test report)

Liu Baodian

(Approved this test report)





2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.

Address /Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science

Park, Shatin, NT, Hong Kong

Contact: Gong Zhizhou

Email: zhizhou.gong@tcl.com Telephone: 0086-755-36611722

Fax: 0086-755-36612000-81722

2.2. Manufacturer Information

Company Name: TCL Communication Ltd.

Address /Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science

Park, Shatin, NT, Hong Kong

Contact: Gong Zhizhou

Email: zhizhou.gong@tcl.com Telephone: 0086-755-36611722

Fax: 0086-755-36612000-81722





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

3.1. About EUT

Description HSUPA/HSDPA/UMTS Bi-Bands/GSM Quad-Bands/LTE 7

Bands/CDMA Tri-bands mobile phone

Model Name 4053S

FCC ID 2ACCJN033 Antenna Embedded

Output power 32.18dBm maximum EIRP measured for PCS1900

Extreme vol. Limits 3.5VDC to 4.35VDC (nominal: 3.8VDC)

Extremetemp. Tolerance -10°C to +55°C

Note: Photographs of EUT are shown in ANNEX A of this test report.

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
EUT3	015501000008797	05	1A38	2019-07-25

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

3.3. <u>Internal Identification of AE</u>

AE ID*	Description		SN
AE1	Battery		
AE1			
Model		TLi017C1	
Manufactui	·er	RYD	

Manufacturer BYD
Capacitance 1780mAh

^{*}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
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-18
		Edition
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	10-1-18
		Edition
ANSI/TIA-603-E	Land Mobile FM or PM Communications Equipment	2016
	Measurement and Performance Standards	
ANSI/TIA-102.CAAA	DIGITAL C4FMCQPSK TRANSCEIVER MEASUREMENT	2016
-E	METHODS	
ANSI C63.26	American National Standard for Compliance Testing of	2015
	Transmitters Used in Licensed Radio Services	
KDB 971168 D01	MEASUREMENT GUIDANCE FOR CERTIFICATION OF	v03r01
	LICENSED DIGITAL TRANSMITTERS	





5. LABORATORY ENVIRONMENT

Control room / conducted chamber did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. =20 %, Max. = 80 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber 2 (8.6 meters × 6.1 meters × 3.85 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 MΩ
Ground system resistance	<1 Ω
Site voltage standing-wave ratio (SVSWR)	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 4000 MHz

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

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 \O	
Site voltage standing-wave ratio (Syswr)	Between 0 and 6 dB, from 1GHz to 18GHz	
Uniformity of field strength	Between 0 and 6 dB, from 80 to 4000 MHz	





6. SUMMARY OF TEST RESULTS

6.1. Summary of test results

Abbreviations used in this clause:		
Verdict Column	Р	Pass
	F	Fail
	NA	Not applicable
	NM	Not measured
Lasatian Caluman	1/2/2/4	The test is performed in test location 1, 2, 3 or 4 which
Location Column	1/2/3/4	are described in section 1.1 of this report

CDMA800

Items	Test Name	Clause in FCC rules	Section in this report	Verdict	Test Location
1	Output Power	22.913(a.2)	ANNEX A	Р	2
2	Emission Limit	22.917(a), 2.1051	ANNEX A	Р	2

CDMA1900

Items	Test Name	Clause in FCC rules	Section in this report	Verdict	Test Location
1	Output Power	24.232(c)	ANNEX A	Р	2
2	Emission Limit	24.238(a), 2.1051	ANNEX A	Р	2

6.2. Statements

The test cases listed in section 6.1 of this report for the EUT specified in section 3 were performed by TMC according to the standards or reference documents in section 4.1

The EUT met all applicable requirements of the standards or reference documents in section 4.1. This report only deals with the CDMA functions among the features described in section 3.





7. Test Facilities Utilized

NO.	Description	TYPE	series number	MANUFACTURE	CAL DUE DATE	Calibration interval
1	Universal Radio Communication Tester	CMU200	108646	R&S	2020-01-03	1 year
2	Spectrum Analyzer	FSU26	200030	R&S	2020-06-03	1 year
3	Climate chamber	SH-242	93008556	ESPEC	2019-12-21	2 year
4	EMI Antenna	VULB9163	9163-235	Schwarzbeck	2019-11-20	1 year
5	EMI Antenna	3117	00058889	ETS-Lindgren	2020-01-02	1 year
6	EMI Antenna	3117	00119024	ETS-Lindgren	2020-02-25	1 year
7	EMI Antenna	9117	167	Schwarzbeck	2020-05-27	1 year
8	Signal Generator	N5183A	MY4906005 2	Agilent	2020-06-24	1 year
9	Test Receiver	E4440A	MY4825064 2	Agilent	2020-03-18	1 year
10	Universal Radio Communication Tester	CMW500	143008	R&S	2019-11-26	1 year
11	Power Amplifier	5S1G4	0341863	AR	1	/

Test Software Utilized

Test Item	Test Software and Version	Software Vendor
ERP/EIRP/RSE	Tile V7.2.3.5	ETS-Lindgren

8. Measurement Uncertainty

Note: Expanded measurement uncertainty for this test item is U = 5.16 dB, k = 2.





ANNEX A: Detailed Test Results

A.1 OUTPUT POWER

Reference

FCC: CFR Part 22.913

A.1.1 Summary

During the process of testing, the EUT was controlled via Agilent Universal Radio Communication Tester (E5515C) to ensure max power transmission and proper modulation.

This result contains peak output power and ERP/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.

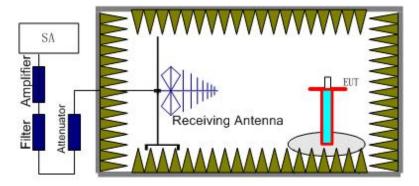
Rule Part 22.913(a)(2) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts."

Rule Part 24.232 specifies, "Mobile/portable stations are limited to 2 watts EIRP. 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."

A.1.2.2 Method of Measurement

The measurements procedures in TIA-603-E-2016 are used.

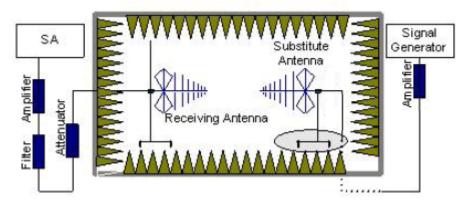
1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected 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 RMS 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, a 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. Adjust the level of the signal generator output until the value of the receiver reaches 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. An amplifier should be connected to the Signal Source output port. And the cable should be connected 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 (Unit dBi) and known input power.
- 6. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15. For test layout photo, please refer to Pic.1 in Annex B.

CDMA800- ERP

Limits

Band	Peak ERP (dBm)		
CDMA800(BC0)	≤38.45dBm (7W)		

Measurement result

1x RTT

Frequency	P _{Mea}	Pcl	P _{Ag}	Ga	Peak	Polarization
(MHz)	(dBm)	(dB)	(dB)	(dBi)	ERP(dBm)	Polarization
824.70	-21.07	2.26	45.79	0.95	21.26	Н
836.52	-20.07	2.26	45.66	0.82	22.00	Н
848.31	-21.51	2.27	45.55	0.80	20.42	Н





Ev-Do

Frequency	P _{Mea}	Pcl	P _{Ag}	Ga	Peak	Polarization	
(MHz)	(dBm)	(dB)	(dB)	(dBi)	ERP(dBm)	Polarization	
824.70	-20.40	2.26	45.79	0.95	21.93	Н	
836.52	-19.52	2.26	45.66	0.82	22.55	Н	
848.31	-20.96	2.27	45.55	0.80	20.97	Н	

Sample calculation: 836.52MHz

 $Peak \; ERP \; (dBm) = P_{Mea}(-19.52 \; dBm) \; + \; G_a \; (0.82 \; dBi) \; + \; P_{Ag} \; (45.66 \; dB) \; - \; P_{cl}(2.26 \; dB) \; - \; 2.15 dBm \; + \; P_{Ag} \; (45.66 \; dB) \; - \; P_{cl}(2.26 \; dB) \; - \; P_{$

= 22.55 dBm

ANALYZER SETTINGS: RBW = VBW = 5MHz

CDMA1900- EIRP

Limits

Band	Peak EIRP (dBm)
CDMA1900(BC1)	≤33dBm (2W)

Measurement result

1x RTT

Frequency	P _{Mea}	P _{cl}	P _{Ag}	Ga	RMS	Delerization	
(MHz)	(dBm)	(dB)	(dB)	(dBi)	EIRP(dBm)	Polarization	
1851.25	-20.22	2.91	43.74	4.87	25.48	Н	
1880.00	-20.26	2.85	43.75	4.82	25.46	Н	
1908.75	-20.15	2.86	43.77	4.76	25.52	Н	

Ev-Do

Frequency	P _{Mea}	P _{cl}	P _{Ag}	Ga	RMS	Dolorization
(MHz)	(dBm)	(dB)	(dB)	(dBi)	EIRP(dBm)	Polarization
1851.25	-19.86	2.91	43.74	4.87	25.84	Н
1880.00	-20.22	2.85	43.75	4.82	25.50	Н
1908.75	-20.07	2.86	43.77	4.76	25.60	Н

Sample calculation: 1851.25 MHz

Peak ERP (dBm) = $P_{Mea}(-19.86 \text{ dBm}) + G_a (4.87 \text{ dBi}) + P_{Ag} (43.74 \text{ dB}) - P_{cl}(2.91 \text{ dB})$ = 25.84 dBm

ANALYZER SETTINGS: RBW = VBW = 5MHz





A.2 EMISSION LIMT

Reference

FCC: CFR 2.1051, Part 22.917(a), 24.238(a).

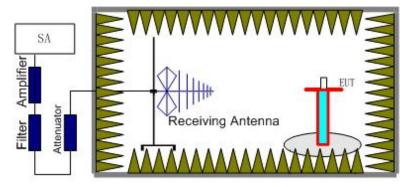
A.2.1 Measurement Method

The measurements procedures in TIA-603-E-2016are used. This measurement is carried out in fully-anechoic chamber 3.

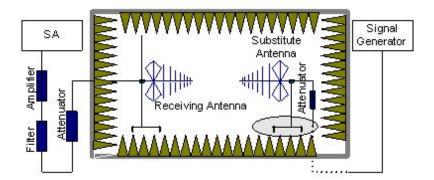
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz. The resolution bandwidth is set 1MHz as outlined in Part 22.917(a) and 24.238(a). The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of CDMA800 and CDMA 1900.

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. Adjust the level of the signal generator output until the value of the receiver reaches 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.

An amplifier should be connected in for the test.

The Path loss (P_{pl}) 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 (unit: dBi) and known input power.
- 6. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dB.

A.2.2 Measurement Limit

Part 22.917(a) and 24.238(a) all 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 CDMA BC0 (836.52MHz, 848.31MHz and 824.7MHz). 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 CDMA BC0 or CDMA BC1 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.





The worst cases:

CDMA BC0, Channel 384/836.52MHz

Frequency	P _{Mea}	P _{pl}	Ga	Peak ERP	Limit	Polarity
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	Polarity
1668.01	-59.92	3.58	5.20	-60.45	-13.00	Н
2504.00	-54.27	4.63	6.11	-54.94	-13.00	Н
3344.02	-54.03	5.31	7.83	-53.66	-13.00	Н
4174.02	-55.48	6.15	9.07	-54.71	-13.00	V
5022.01	-55.15	6.57	9.93	-53.94	-13.00	V
5851.01	-53.67	7.24	10.53	-52.53	-13.00	V

CDMA BC0, Channel 777/848.31MHz

Frequency	P _{Mea}	P _{pl}	Ga	Peak ERP	Limit	Polarity
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	Polarity
1706.01	-60.04	3.60	5.13	-60.66	-13.00	V
2552.00	-52.02	4.67	6.19	-52.65	-13.00	Н
3387.02	-55.56	5.35	7.93	-55.13	-13.00	V
4237.02	-54.91	6.25	9.14	-54.17	-13.00	Н
5082.01	-55.62	6.72	10.01	-54.48	-13.00	Н
5933.01	-53.52	7.47	10.51	-52.63	-13.00	Н

CDMA BC0, Channel 1013/824.7MHz

Frequency	P _{Mea}	P _{pl}	Ga	Peak ERP	Limit	Dolority
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	Polarity
1656.01	-61.02	3.57	5.22	-61.52	-13.00	Н
2466.00	-53.73	4.59	6.00	-54.47	-13.00	V
3302.02	-54.60	5.29	7.72	-54.32	-13.00	V
4130.02	-55.29	6.05	9.03	-54.46	-13.00	Н
4948.01	-55.46	6.69	9.85	-54.45	-13.00	Н
5767.01	-54.58	7.24	10.55	-53.42	-13.00	Н

Sample calculation: 1656.01MHz

Peak ERP (dBm) = PMea(-61.02 dBm) - Pcl (3.57 dB) + Ga (5.22 dBi) -2.15dBm =--61.52 dBm





CDMA BC1, Channel 25/1851.25MHz

Frequency	P _{Mea}	P _{pl}	Ga	Peak EIRP	Limit	Dolority
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	Polarity
3702.02	-50.64	6.42	8.48	-48.58	-13.00	V
5557.02	-50.68	7.19	10.59	-47.28	-13.00	Н
7409.01	-56.21	8.14	12.09	-52.26	-13.00	Н
9253.01	-54.56	9.05	13.25	-50.36	-13.00	V
11111.01	-51.72	9.79	13.18	-48.33	-13.00	Н
12962.01	-50.62	10.48	13.48	-47.62	-13.00	Н

CDMA BC1, Channel 600/1880.00MHz

Frequency	P _{Mea}	P _{pl}	Ga	Peak EIRP	Limit	Dolority
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	Polarity
3760.02	-49.64	6.26	8.56	-47.34	-13.00	V
5645.02	-50.69	7.27	10.57	-47.39	-13.00	Н
7520.01	-55.28	8.31	12.22	-51.37	-13.00	V
9405.01	-54.62	9.06	13.34	-50.34	-13.00	Н
11271.01	-51.77	9.82	13.15	-48.44	-13.00	Н
13167.01	-48.67	10.64	13.73	-45.58	-13.00	V

CDMA BC1, Channel 1175/1908.75MHz

Frequency	P _{Mea}	P _{pl}	Ga	Peak EIRP	Limit	Dolority
(MHz)	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	Polarity
3818.02	-54.54	6.08	8.65	-51.97	-13.00	V
5734.02	-50.07	7.29	10.55	-46.81	-13.00	V
7640.01	-55.19	8.15	12.31	-51.03	-13.00	Н
9559.01	-53.41	9.33	13.34	-49.40	-13.00	Н
11460.01	-51.22	9.91	13.11	-48.02	-13.00	Н
13360.01	-48.25	10.57	14.00	-44.82	-13.00	Н

Sample calculation: 3818.02MHz

Peak ERP (dBm) = PMea(-54.54 dBm) - Pcl (6.08 dB) + Ga (8.65 dBi)

=-51.97 dBm





ANNEX B: Persons involved in this testing

Test Item	Tester		
Output Power	Chen Tianwei, Zhang Baoguang		
Emission Limit	Chen Tianwei, Zhang Baoguang		

END OF REPORT