





TEST REPORT

No. I20Z60720-WMD04

for

TCL Communication Ltd.

GSM/UMTS/LTE Mobile phone

Model Name: 5007W,5007Z

FCC ID: 2ACCJH128

with

Hardware Version: 04

Software Version: 7HS05000

Issued Date: 2020-06-24

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
I20Z60720-WMD04	Rev.0	1st edition	2020-06-24

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





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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 (CN0066). The detail accreditation scope can be found on NVLAP website.

1.2. <u>Testing Location</u>

Location 1: CTTL(huayuan North Road)

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

P. R. China 100191





1.3. <u>Testing Environment</u>

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

1.4. Project data

Testing Start Date: 2020-05-15 Testing End Date: 2020-06-19

1.5. Signature

Dong Yuan

(Prepared this test report)

Zhang Yufeng

强主则

(Reviewed this test report)

Zhao Hui Lin

Deputy Director of the laboratory

(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

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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 GSM/UMTS/LTE Mobile phone

 Model
 5007W,5007Z

 FCC ID
 2ACCJH128

Frequency CDMA800MHz(BC0);CDMA1900MHz(BC1)

Antenna Embedded

Extreme vol. Limits 3.5VDC to 4.4VDC (nominal: 3.85VDC)

Extreme temp. Tolerance -10°C to +55°C

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL.

3.2. Internal Identification of EUT used during the test

 EUT ID*
 IMEI
 HW Version
 SW Version
 Date of receipt

 UT43a
 015735000205819
 04
 7HS05000
 2020-05-15

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

3.3. Internal Identification of AE used during the test

AE ID* Description

AE1 Battery

AE1

Model TLp034F1
Manufacturer BYD
Capacitance 3500mAh

A*AE ID: is used to identify the test sample in the lab internally.





4. Reference Documents

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

Reference	Title	Version
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	10-1-19
		Edition
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-19
		Edition
ANSI/TIA-603-E	Land Mobile FM or PM Communications Equipment	2016
	Measurement and Performance Standards	
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 Licensed Digital	v03r01
	Transmitters	





5. <u>Laboratory Environment</u>

Shielding chamber did not exceed following limits along the RF testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. =20 %, Max. = 80 %





6. Summary Of Test Result

Items	List	Clause in FCC rules	Verdict
1	Output Power	22.913(a)/24.232(c)	Р
2	Frequency Stability	2.1055/22.355/24.235	Р
3	Occupied Bandwidth	2.1049(h)(i)	Р
4	Emission Bandwidth	22.917(b)/24.238(b)	Р
5	Band Edge Compliance	22.917(b)/24.238(b)	Р
6	Conducted Spurious Emission	2.1057/22.917/24.238	Р
7	Peak to Average Power Ratio	24.232(d)	Р

Terms used in Verdict column

Р	Pass. The EUT complies with the essential requirements in the standard.			
NP	Not Performed. The test was not performed by CTTL.			
NA	Not Applicable. The test was not applicable.			
BR	Re-use test data from basic model report.			
F	Fail. The EUT does not comply with the essential requirements in the			
	standard.			

Explanation of worst-case configuration

The worst-case scenario for all measurements is based on the conducted output power measurement investigation results unless otherwise stated. The test results shown in the following sections represent the worst case emission.





7. Test Equipments Utilized

			SERIES	PRODUCE	CALIBRATIO	CAL DUE
NO.	NAME	TYPE	NUMBER	R	N INTERVAL	DATE
1	Spectrum Analyzer	FSV30	101576	R&S	1 Year	2021-05-07
	Wireless		MY4836095			
2	Communications Test	8960(E5515C)	0	Agilent	2 Years	2020-08-29
	Set		U			
3	Climatic chamber	SH-242	93008556	ESPEC	3 Years	2020-12-21





ANNEX A: MEASUREMENT RESULTS

A.1 Output Power

A.1.1 Summary

During the process of testing, the EUT was controlled via Agilent Wireless Communications Test Set (8960(E5515C)) to ensure max power transmission and proper modulation.

This result is max output power conducted measurements for the EUT.

In all cases, output power is within the specified limits.

A.1.2 Method of Measurements

The EUT was set up for the max output power with pseudo random data modulation.

The power was measured with Rhode & Schwarz Spectrum Analyzer FSV30 (average).

These measurements were done at 3 frequencies, 1851.25 MHz, 1880.0 MHz and 1908.75 MHz for PCS CDMA band, 824.7MHz, 836.52MHz and 848.31MHz for CDMA 800 band (bottom, middle and top of operational frequency range) for 1x RTT and 1xEVDO.

- a) Set span to at least 1.5 times the OBW.
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
- c) Set VBW ≥ 3 × RBW.
- d) Set number of points in sweep ≥ 2 × span / RBW.
- e) Sweep time = auto-couple.
- f) Detector = RMS (power averaging).
- g) If the EUT can be configured to transmit continuously (i.e., burst duty cycle \geq 98%), then set the trigger to free run.
- h) If the EUT cannot be configured to transmit continuously (i.e., burst duty cycle < 98 %), then use a sweep trigger with the level set to enable triggering only on full power bursts and configure the EUT to transmit at full power for the entire duration of each sweep. Ensure that the sweep time is less than or equal to the transmission burst duration.
- i) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- j) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with the band limits set equal to the OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.





A1.3 Measurement results CDMA 800

Measurement result

Channel		Channe	nel power(dBm)		
	Frequency(MHz)	1x RTT	1xEVDO		
		IXKII	Rel0	RevA	
1013	824.70	23.94	23.97	23.99	
384	836.52	24.21	24.37	24.39	
777	848.31	24.42	24.62	24.61	

CDMA 1900

Measurement result

		Channel power(dBm)			
Channel	Frequency(MHz)	1x RTT	1xEVDO		
		IXKII	Rel0	RevA	
25	1851.25	24.89	24.00	24.21	
600	1880.00	24.80	24.03	24.17	
1175	1908.75	24.77	24.04	24.17	





A.2 Frequency Stability

A.2.1 Method of Measurement

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of Agilent 8960(E5515C) Wireless Communications Test Set.

- 1. Measure the carrier frequency at room temperature.
- 2. Subject the EUT to overnight soak at -30°C.
- 3. With the EUT, powered via nominal voltage, connected to the 8960(E5515C) and in a simulated call on channel 384 for CDMA 800 and channel 600 for 1900 measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- 5. Remeasure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments remeasuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.
- 6. Subject the EUT to overnight soak at +50°C.
- 7. With the EUT, powered via nominal voltage, connected to the 8960(E5515C) and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 8. Repeat the above measurements at 10°C decrements from +50°C to -30°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- 9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

A.2.2 Measurement Limit

A.2.2.1 For Hand carried battery powered equipment

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of between 3.5VDC and 4.4VDC, with a nominal voltage of 3.8VDC. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress.

For CDMA800, according to section. 22.355, frequency tolerance cab be maintained within 2.5ppm.





A.2.2.2 For equipment powered by primary supply voltage

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. For this EUT section 2.1055(d)(1) applies. This requires varying primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

For CDMA800, according to section. 22.355, frequency tolerance cab be maintained within 2.5ppm.





A.2.3 Measurement results

CDMA 800

Frequency Error vs Temperature

Temperature(°ℂ)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Fraguency error/ppm)
20				Oliset(HZ)	Frequency error(ppm)
50				8.23	0.0098
40				9.79	0.0117
30				10.11	0.0121
10	3.85	824.006	06 848.997	8.74	0.0104
0				9.90	0.0118
-10				9.94	0.0119
-20				8.37	0.0100
-30				7.56	0.0090

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	924.006	040.007	9.02	0.0108
4.4	20	824.006	848.997	8.05	0.0096

CDMA 1900

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offoot/Uz)	Fraguency error(nam)
20				Offset(Hz)	Frequency error(ppm)
50				15.53	0.0083
40				13.93	0.0074
30	3.85	1850.553	1909.447	13.53	0.0072
10				12.84	0.0068
0				12.40	0.0066
-10			_	12.33	0.0066
-20				11.98	0.0064
-30				10.85	0.0058

Frequency Error vs Voltage

Voltage(V)	Temperature(℃)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.5	20	1850.553	1909.447	11.26	0.0060
4.4				11.44	0.0061





A.3 Occupied Bandwidth

A.3.1 Occupied Bandwidth Results

Occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of the US Cellular/PCS frequency bands. The table below lists the measured 99% BW. Spectrum analyzer plots are included on the following pages.

The measurement method is from ANSI C63.26:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts.
- b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set ≥ 3 × RBW.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
- d) Set the detection mode to peak, and the trace mode to max-hold.

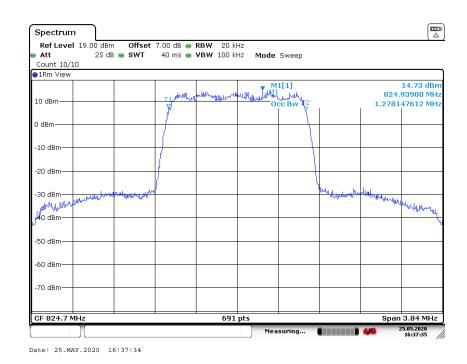
CDMA 800 (99% BW)

Channel	Occupied Bandwidth (99% BW)(MHz)	
1013	1.278	
384	1.267	
777	1.267	

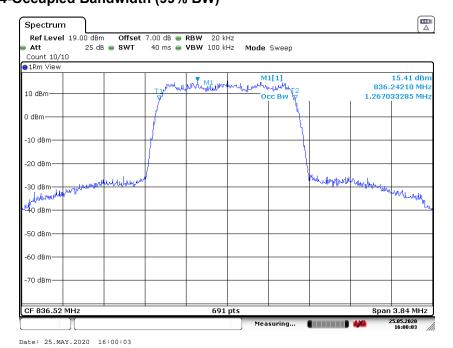




CDMA 800 Channel 1013-Occupied Bandwidth (99% BW)



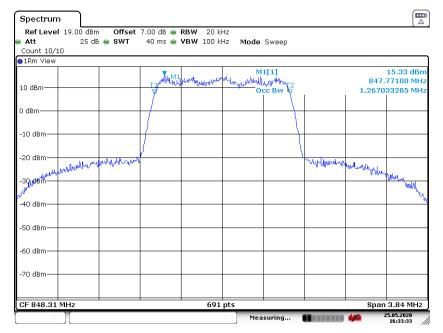
Channel 384-Occupied Bandwidth (99% BW)







Channel 777-Occupied Bandwidth (99% BW)



Date: 25.MAY.2020 16:33:33

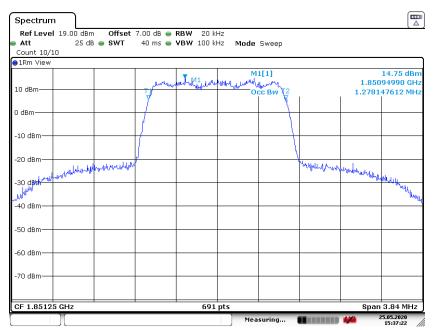




CDMA 1900 (99% BW)

Channel	Occupied Bandwidth (99% BW)(MHz)		
25	1.278		
600	1.278		
1175	1.278		

CDMA 1900 Channel 25-Occupied Bandwidth (99% BW)



Date: 25.MAY.2020 15:37:21



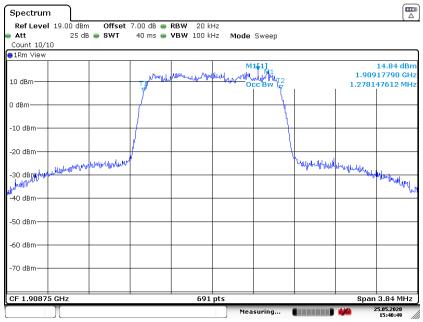


Channel 600-Occupied Bandwidth (99% BW)



Date: 25.MAY.2020 15:23:23

Channel 1175-Occupied Bandwidth (99% BW)



Date: 25.MAY.2020 15:40:49





A.4 Emission Bandwidth

A.4.1Emission Bandwidth Results

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

The measurement method is from ANSI C63.26:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts.
- b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set ≥ 3 × RBW.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
- d) Set the detection mode to peak, and the trace mode to max-hold.



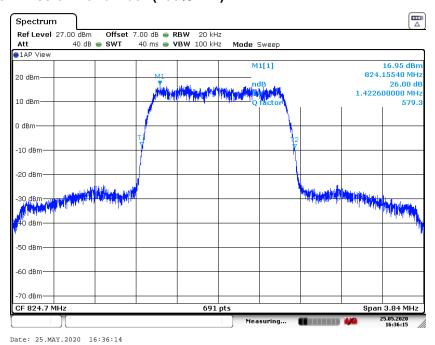


CDMA 800 (100% BW)

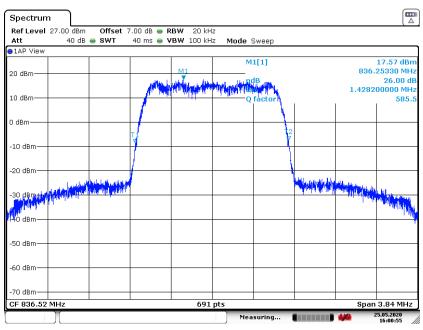
Channel	Emission Bandwidth (100% BW)(MHz)		
1013	1.423		
384	1.428		
777	1.445		

CDMA 800

Channel 1013-Emission Bandwidth (100% BW)



Channel 384-Emission Bandwidth (100% BW)

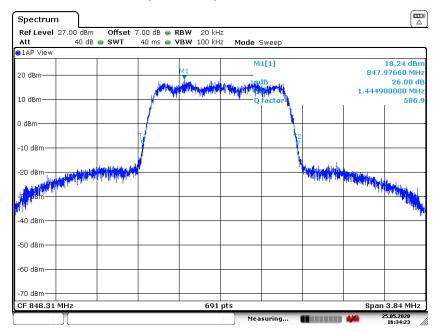


Date: 25.MAY.2020 16:00:55





Channel 777-Emission Bandwidth (100% BW)



Date: 25.MAY.2020 16:34:23



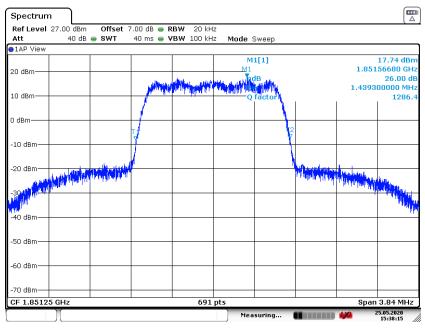


CDMA 1900(100% BW)

Channel	Emission Bandwidth (-26dBc BW)(MHz)		
25	1.439		
600	1.439		
1175	1.439		

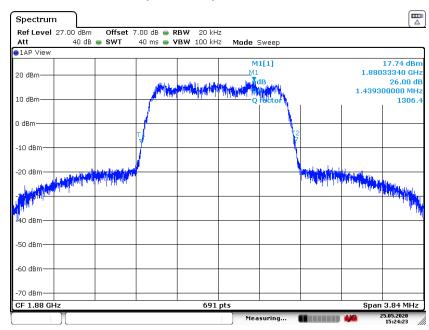
CDMA 1900

Channel 25-Emission Bandwidth (100% BW)



Date: 25.MAY.2020 15:38:15

Channel 600-Emission Bandwidth (100% BW)

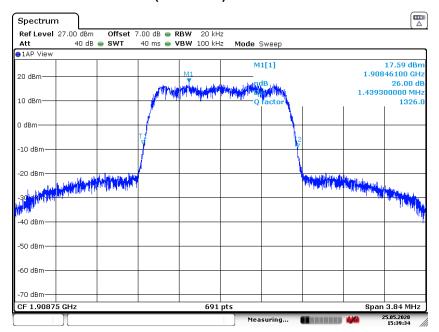


Date: 25.MAY.2020 15:24:22





Channel 1175-Emission Bandwidth (100% BW)



Date: 25.MAY.2020 15:39:34





A.5 Band Edge Compliance

A.5.1 Measurement limit

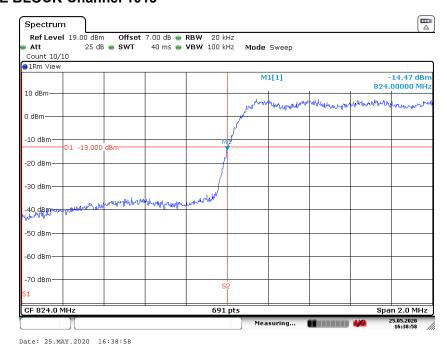
On any frequency outside frequency band of the US Cellular/PCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least 43+10Log (P) dB. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm. According to KDB 971168, a relaxation of the reference bandwidth is often provided for measurements within a specified frequency range at the edge of the authorized frequency block/band. This is often implemented by permitting the use of a narrower RBW (typically limited to a minimum RBW of 1% of the OBW) for measuring the out-of-band emissions without a requirement to integrate the result over the full reference bandwidth.



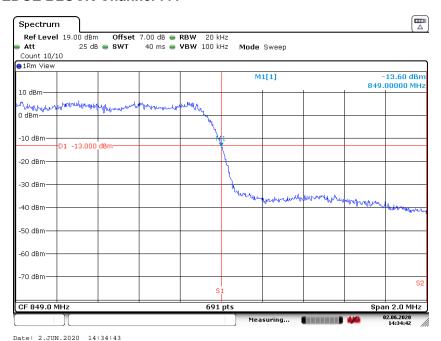


A.5.2 Measurement result

CDMA 800 BAND EDGE BLOCK-Channel 1013



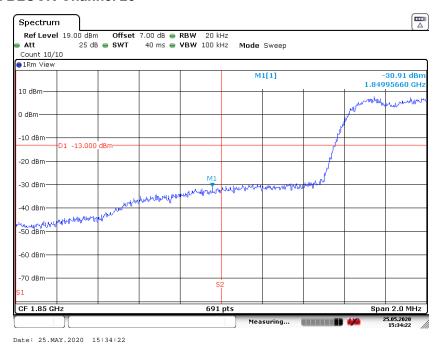
HIGH BAND EDGE BLOCK-Channel 777



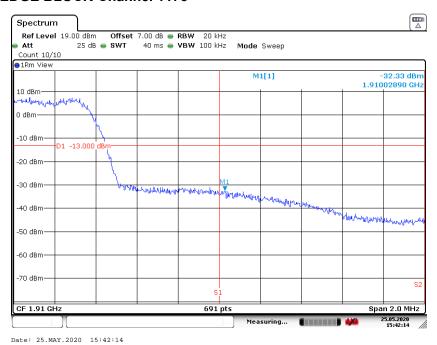




CDMA 1900 BAND EDGE BLOCK-Channel 25



HIGH BAND EDGE BLOCK-Channel 1175







A.6 Conducted Spurious Emission

A.6.1 Measurement Method

The following steps outline the procedure used to measure the conducted emissions from the FUT

- Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency. For the mobile station equipment tested, this equates to a frequency range of 13 MHz to 9 GHz, data taken from 10 MHz to 25 GHz.
- 2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.
- 3. According to KDB 971168 v02r01 6.0, the applicable rule part specifies the reference bandwidth for measuring unwanted emission levels (typically, 100 kHz if the authorized frequency band/block is at or below 1 GHz and 1 MHz if the authorized frequency band/block is above 1 GHz)

CDMA 800 Transmitter

Channel	Frequency (MHz)	
1013	824.70	
384	836.52	
777	848.31	

CDMA 1900 Transmitter

Channel	Frequency (MHz)	
25	1851.25	
600	1880.00	
1175	1908.75	

A.6.2 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.



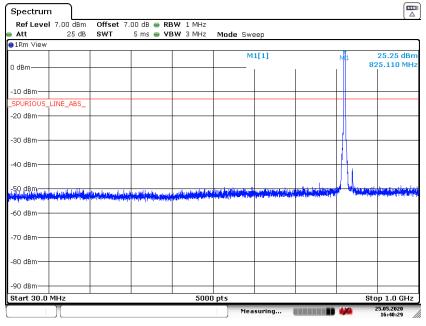


A.6.3 Measurement result

CDMA 800

Channel 1013: 30MHz –1GHz Spurious emission limit –13dBm.

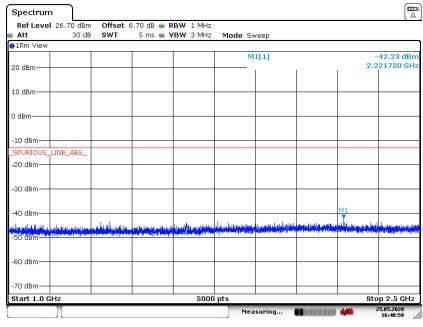
NOTE: peak above the limit line is the carrier frequency.



Date: 25.MAY.2020 16:40:29

Channel 1013: 1GHz - 2.5GHz

Spurious emission limit -13dBm.



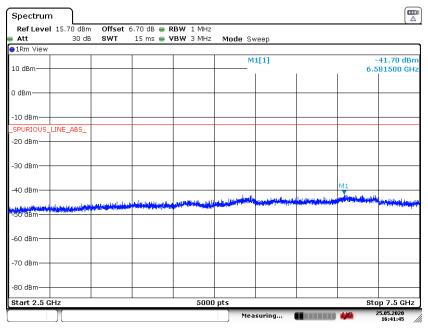
Date: 25.MAY.2020 16:40:58





Channel 1013: 2.5GHz –7.5GHz Spurious emission limit –13dBm.

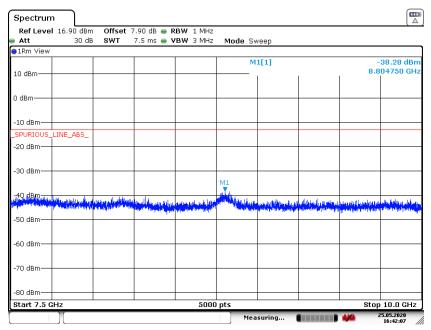
NOTE: peak above the limit line is the carrier frequency.



Date: 25.MAY.2020 16:41:44

Channel 1013: 7.5GHz - 10GHz

Spurious emission limit -13dBm.



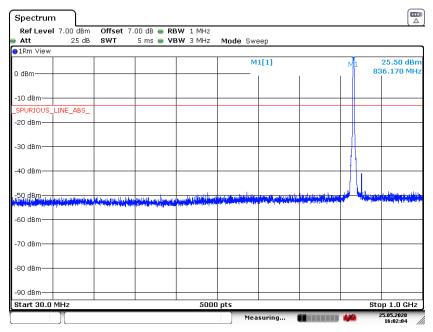
Date: 25.MAY.2020 16:42:07





Channel 384: 30MHz –1GHzSpurious emission limit –13dBm.

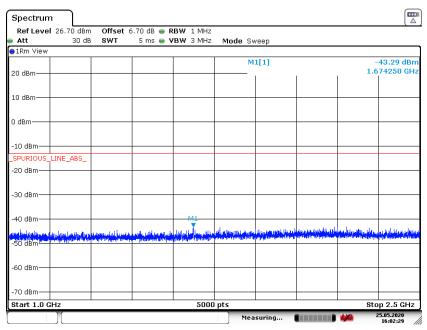
NOTE: peak above the limit line is the carrier frequency.



Date: 25.MAY.2020 16:02:04

Channel 384: 1GHz – 2.5GHz

Spurious emission limit -13dBm.



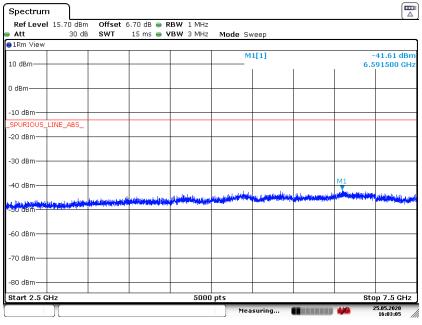
Date: 25.MAY.2020 16:02:29





Channel 384: 2.5GHz -7.5GHz

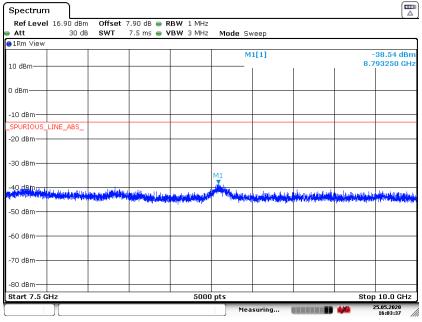
Spurious emission limit -13dBm.



Date: 25.MAY.2020 16:03:05

Channel 384: 7.5GHz - 10GHz

Spurious emission limit -13dBm.



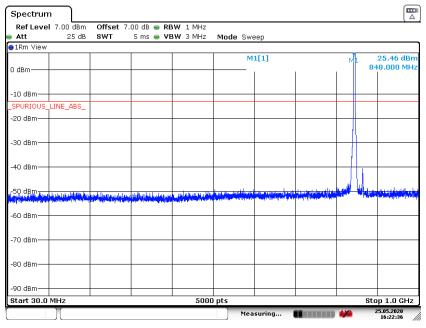
Date: 25.MAY.2020 16:03:37





Channel 777: 30MHz –1GHz Spurious emission limit –13dBm.

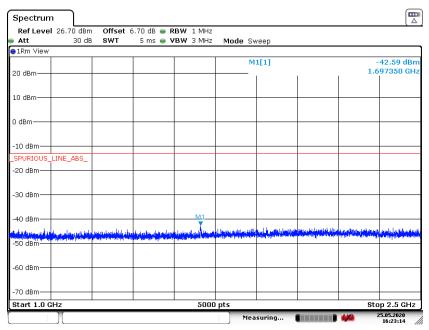
NOTE: peak above the limit line is the carrier frequency.



Date: 25.MAY.2020 16:22:36

Channel 777: 1GHz - 2.5GHz

Spurious emission limit -13dBm.



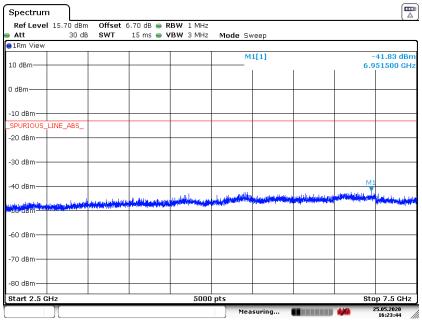
Date: 25.MAY.2020 16:23:14





Channel 777: 2.5GHz -7.5GHz

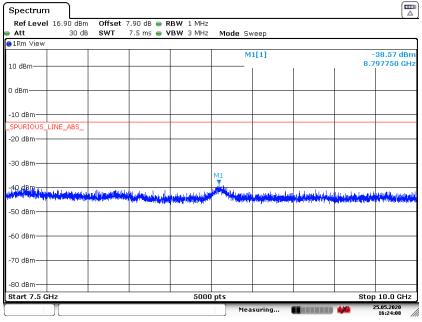
Spurious emission limit -13dBm.



Date: 25.MAY.2020 16:23:43

Channel 777: 7.5GHz - 10GHz

Spurious emission limit -13dBm.



Date: 25.MAY.2020 16:24:08

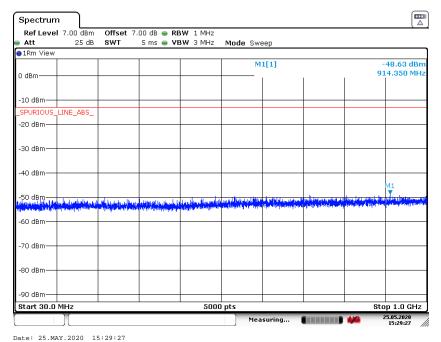




CDMA 1900

Channel 25: 30MHz -1GHz

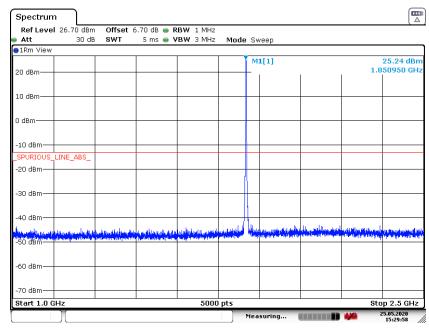
Spurious emission limit -13dBm.



Channel 25: 1GHz -2.5GHz

Spurious emission limit -13dBm.

NOTE: peak above the limit line is the carrier frequency.



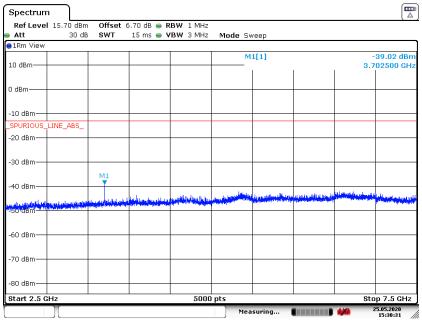
Date: 25.MAY.2020 15:29:58





Channel 25: 2.5GHz -7.5GHz

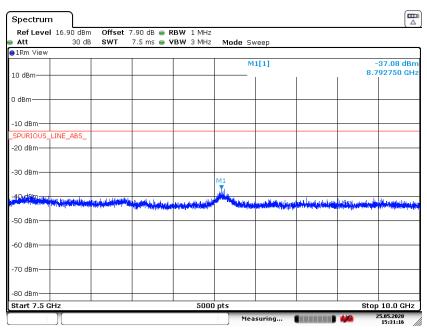
Spurious emission limit -13dBm.



Date: 25.MAY.2020 15:30:30

Channel 25: 7.5GHz -10GHz

Spurious emission limit -13dBm.



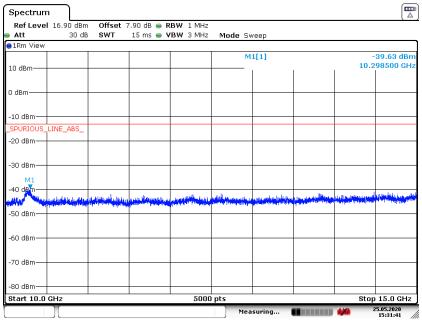
Date: 25.MAY.2020 15:31:15





Channel 25: 10GHz -15GHz

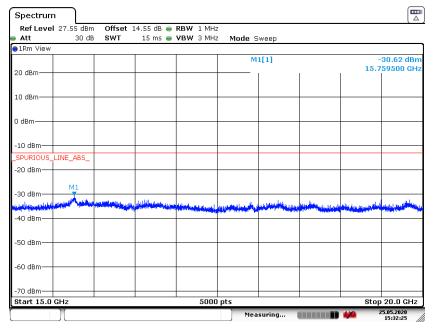
Spurious emission limit -13dBm.



Date: 25.MAY.2020 15:31:40

Channel 25: 15GHz -20GHz

Spurious emission limit -13dBm.



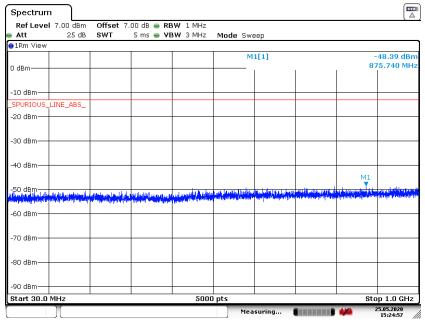
Date: 25.MAY.2020 15:32:25





Channel 600: 30MHz -1GHz

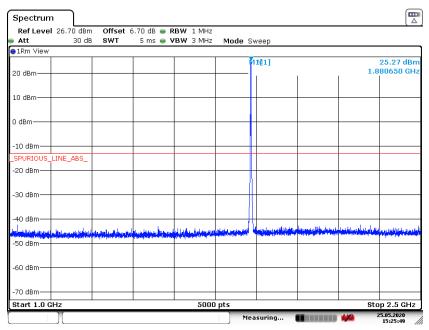
Spurious emission limit -13dBm.



Date: 25.MAY.2020 15:24:57

Channel 600: 1GHz –2.5GHz Spurious emission limit –13dBm.

NOTE: peak above the limit line is the carrier frequency.



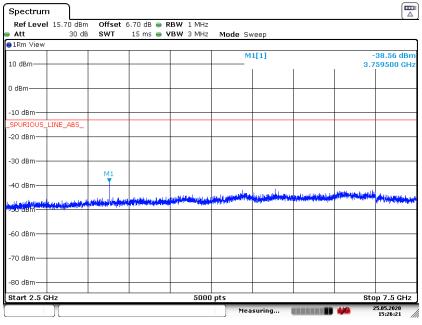
Date: 25.MAY.2020 15:25:49





Channel 600: 2.5GHz -7.5GHz

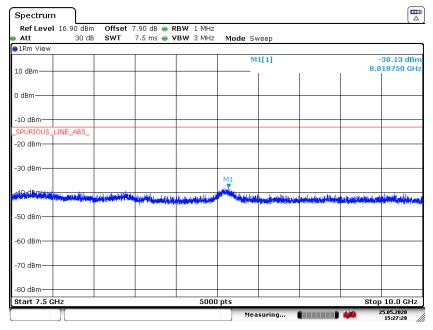
Spurious emission limit -13dBm.



Date: 25.MAY.2020 15:26:21

Channel 600: 7.5GHz -10GHz

Spurious emission limit -13dBm.



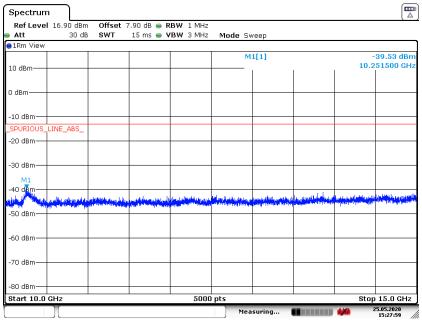
Date: 25.MAY.2020 15:27:28





Channel 600: 10GHz -15GHz

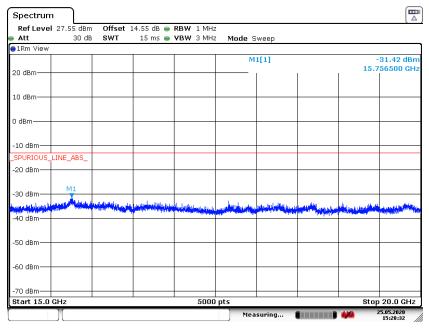
Spurious emission limit -13dBm.



Date: 25.MAY.2020 15:27:59

Channel 600: 15GHz -20GHz

Spurious emission limit -13dBm.



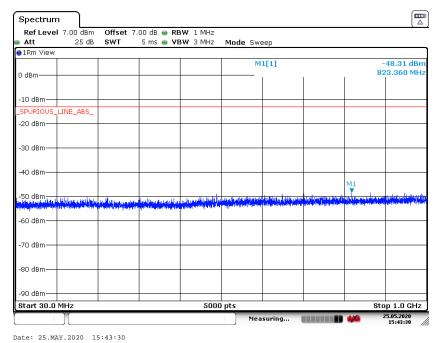
Date: 25.MAY.2020 15:28:32





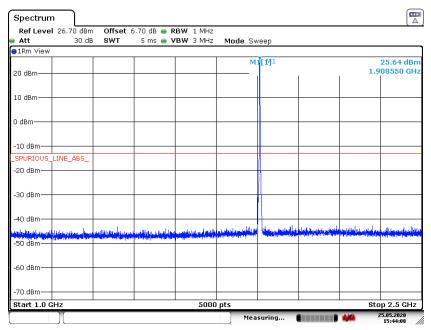
Channel 1175: 30MHz -1GHz

Spurious emission limit -13dBm.



Channel 1175: 1GHz –2.5GHz Spurious emission limit –13dBm.

NOTE: peak above the limit line is the carrier frequency.



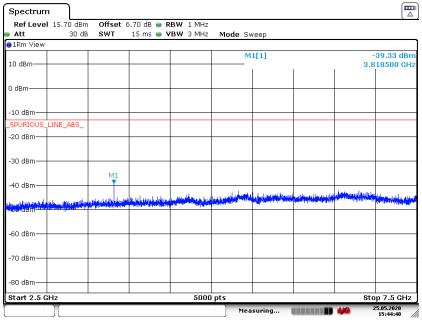
Date: 25.MAY.2020 15:44:07





Channel 1175: 2.5GHz -7.5GHz

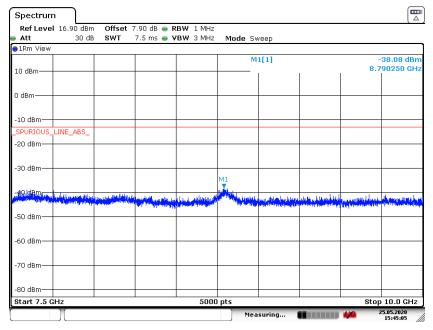
Spurious emission limit -13dBm.



Date: 25.MAY.2020 15:44:40

Channel 1175: 7.5GHz -10GHz

Spurious emission limit -13dBm.



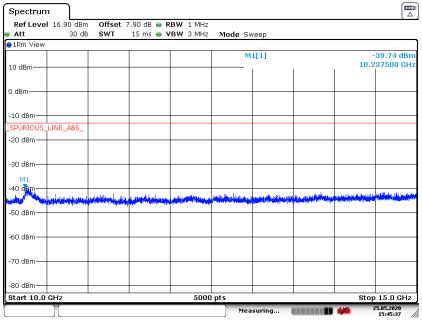
Date: 25.MAY.2020 15:45:05





Channel 1175: 10GHz -15GHz

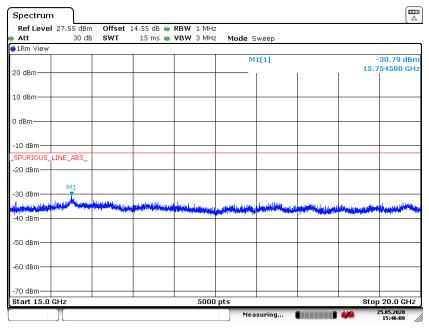
Spurious emission limit -13dBm.



Date: 25.MAY.2020 15:45:37

Channel 1175: 15GHz -20GHz

Spurious emission limit -13dBm.



Date: 25.MAY.2020 15:46:08





A.7 Peak-to-Average Power Ratio

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB a)Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;

- b) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d)Record the maximum PAPR level associated with a probability of 0.1%

Measurement results CDMA 1900

Measurement result

		PAPR(dB)		
Channel	Frequency(MHz)	1v DTT	1xEVDO	
		1x RTT	Rel0	RevA
600	1880.00	3.19	3.74	3.57





ANNEX B: Accreditation Certificate

United States Department of Commerce National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 600118-0

Telecommunication Technology Labs, CAICT

Beijing China

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Electromagnetic Compatibility & Telecommunications

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2019-09-26 through 2020-09-30

Effective Dates



For the National Voluntary Laboratory Accreditation Program

END OF REPORT