



Test Report No.: SA160622W006



# RF EXPOSURE REPORT

**Product:** CDMA 1X Module

**Model Name:** MC2261

**FCC ID:** Q78-ZTEMC2261

**Applicant:** ZTE Corporation

**Address:** ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park,  
Nanshan District, Shenzhen, Guangdong, P.R.China

**Manufacturer:** ZTE Corporation

**Address:** ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park,  
Nanshan District, Shenzhen, Guangdong, P.R.China

**Prepared by:** Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

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**Report No.:** SA160622W006

**Received Date:** Jun. 22, 2016

**Test Date:** Jun. 23, 2016 ~ July 05, 2016

**Issued Date:** July 06, 2016

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**BUREAU**  
**VERITAS**

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA160622W006	Original release	July 06, 2016

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## 1 CERTIFICATION

**PRODUCT:** CDMA 1X Module  
**BRAND NAME:** ZTE  
**MODEL NAME:** MC2261  
**APPLICANT:** ZTE Corporation  
**TESTED:** Jun. 23, 2016 ~ July 05, 2016  
**TEST SAMPLE:** Production unit  
**STANDARDS:** **FCC Part 2 (Section 2.1091)**  
**FCC OET Bulletin 65, Supplement C (01-01)**  
**IEEE C95.1**

The above equipment has been tested by **Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**PREPARED BY :** , **DATE:** July 06, 2016  
( Amyee Qian / Engineer)

**APPROVED BY :** , **DATE:** July 06, 2016  
( William Chung / Manager)



## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	CDMA 1X Module	
<b>MODEL NAME</b>	MC2261	
<b>NOMINAL VOLTAGE</b>	3.8Vdc	
<b>OPERATING TEMPERATURE RANGE</b>	-30 ~ 75°C	
<b>MODULATION TYPE</b>	<b>CDMA BC 0</b>	QPSK
<b>OPERATING FREQUENCY</b>	<b>GSM/EDGE</b>	824.2MHz ~ 849MHz (FOR CDMA BC 0) 1850.2MHz ~ 1909.8MHz (FOR CDMA BC 1)
<b>ANTENNA TYPE</b>	Swivel Antenna	
<b>ANTENNA GAIN</b>	3.5dBi gain For CDMA BC 0 4.8dBi gain For CDMA BC 1	
<b>HW Version</b>	MC2261MD_B	
<b>SW Version</b>	MC2261_C_MM9B8209_R01	
<b>I/O PORTS</b>	Refer to user's manual	

**NOTE:**

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



### 3 RF EXPOSURE

#### 3.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm <sup>2</sup> )	AVERAGE TIME (minutes)
<b>LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE</b>				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

#### 3.2 MPE CALCULATION FORMULA

$$Pd = (Pout * G) / (4 * pi * r^2)$$

where

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

#### 3.3 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Module Approval**.



### 3.4 CONDUCTED POWER

Band	CDMA2000 BC0		
Channel	1013	384	777
Frequency (MHz)	824.7	836.52	848.31
RC1+SO55	24.22	24.27	24.31
RC3+SO55	24.19	24.25	24.29
RC3+SO32(FCH)	24.26	24.17	24.20
RC3+SO32(SCH)	24.15	24.16	24.18

Band	CDMA2000 BC1		
Channel	25	600	1175
Frequency (MHz)	1851.25	1880	1908.75
RC1+SO55	23.31	23.22	23.17
RC3+SO55	23.29	23.19	23.15
RC3+SO32(FCH)	23.27	23.18	23.15
RC3+SO32(SCH)	23.25	23.17	23.14



### 3.5 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

#### CDMA

Band	Frequency (MHz)	Antenna Gain (dBi)	Conducted Time Average Power (dBm)	E.I.R.P Power (mW)	Power Density (mW/cm <sup>2</sup> )	Llimit (mW/cm <sup>2</sup> )	PASS / FAIL
CDMA BC 0	848.31	3.5	24.31	603.949	0.120	0.57	PASS
CDMA BC 1	1851.25	4.8	23.31	647.143	0.129	1.00	PASS