

RF EXPOSURE REPORT

Product: GSM Wireless Data Terminal

Model Name: ZTE MG2618

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

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA150325N054	Original release	Mar. 26, 2015



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1 CERTIFICATION

PRODUCT: GSM Wireless Data Terminal
BRAND NAME: ZTE
MODEL NAME: ZTE MG2618
APPLICANT: ZTE Corporation
TESTED: Mar. 25, 2015 ~ Mar. 26, 2015
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 : Yuqiang Yin , **DATE:** Mar. 26, 2015
(Yuqiang Yin / Engineer)

APPROVED BY : Glyn He , **DATE:** Mar. 26, 2015
(Glyn He / Supervisor)

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	GSM Wireless Data Terminal	
MODEL NO.	ZTE MG2618	
FCC ID	SRQ-ZTEMG2618	
NOMINAL VOLTAGE	5.0Vdc (adapter or host equipment)	
OPERATING TEMPERATURE RANGE	-30 ~ 75°C	
MODULATION TECHNOLOGY	DSSS, OFDM	
MODULATION TYPE	GPS	C/A code
	GSM/GPRS	GMSK, 8PSK
OPERATING FREQUENCY	GPS	1575.42MHz
	GSM	824MHz ~ 849MHz (FOR GSM 850) 880MHz ~ 915MHz (FOR GSM 900) 1710MHz ~ 1785MHz (FOR DCS 1800) 1850MHz ~ 1910MHz (FOR PCS 1900)
ANTENNA TYPE	Fixed Internal Antenna with 3dBi gain	
HW VERSION	MG2618_MB_C	
SW VERSION	MG2618_V1_DFFF001_R01	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	

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 ²)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

3.2 MPE CALCULATION FORMULA

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880	1909.8
GSM	31.12	31.56	31.38	28.20	28.09	28.24
GPRS 8	31.10	31.53	31.34	28.17	28.07	28.18
GPRS 10	30.09	30.46	30.26	27.06	26.87	27.08
GPRS 11	28.29	28.61	28.44	25.09	25.02	25.18
GPRS 12	27.40	27.72	27.71	24.28	24.35	24.20
Source-Based Time-Averaged Power						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
GSM	22.12	22.56	22.38	19.20	19.09	19.24
GPRS 8	22.10	22.53	22.34	19.17	19.07	19.18
GPRS 10	24.09	24.46	24.26	21.06	20.87	21.08
GPRS 11	24.03	24.35	24.18	20.83	20.76	20.92
GPRS 12	24.40	24.72	24.71	21.28	21.35	21.20

3.5 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

Band	Frequency (MHz)	Operating Mode	Antenna Gain (dBi)	Conducted Time Average Power (dBm)	E.I.R.P Power (mW)	Power Density (mW/cm ²)	limit (mW/cm ²)	PASS / FAIL
GSM850	836.4	GPRS12	3.00	24.72	591.562	0.118	0.56	PASS
GSM1900	1909.8	GPRS12	3.00	21.35	272.270	0.054	1.00	PASS