



Test Report No.: SA150420N007



RF EXPOSURE REPORT

Product: Automotive Multi-function MiFi Terminal

Model Name: VM6200

FCC ID: SRQ-VM6200

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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Test Report No.: SA150420N007

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA150420N007	Original release	Jul. 03, 2015



1 CERTIFICATION

PRODUCT: Automotive Multi-function MiFi Terminal
BRAND NAME: ZTE
MODEL NAME: VM6200
APPLICANT: ZTE Corporation
TESTED: Apr. 21, 2015 ~ May 28, 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:** Jul. 03, 2015
(Yuqiang Yin / Engineer)

APPROVED BY : Glyn He , **DATE:** Jul. 03, 2015
(Glyn He / Supervisor)



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Automotive Multi-function MiFi Terminal	
MODEL NAME	VM6200	
NOMINAL VOLTAGE	14Vdc (adapter or host equipment)	
OPERATING TEMPERATURE RANGE	-10 ~ 55°C	
MODULATION TECHNOLOGY	DSSS, OFDM	
MODULATION TYPE	WLAN	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
	WCDMA	BPSK/QPSK
	LTE	QPSK
OPERATING FREQUENCY	WLAN	2412-2462MHz for 11b/g/n(HT20)
	WCDMA	WCDMA 850: 826.4MHz ~ 846.6MHz WCDMA 1900: 1852.4MHz ~ 1907.6MHz
	LTE	LTE Band 2: 1850.7MHz ~ 1909.3MHz LTE Band 4: 1710.7MHz ~ 1754.3MHz LTE Band 5: 824.7MHz ~ 848.3MHz LTE Band 17: 706.5MHz ~ 713.5MHz
ANTENNA TYPE	Dipole Antenna with 2.2dBi gain For 11b/g/n(HT20) Fixed Internal antenna with -0.51dBi gain For WCDMA 850/LTE Band 5 Fixed Internal antenna with 2.93dBi gain For WCDMA 1900/LTE Band 2 Fixed Internal antenna with 2.72dBi gain For LTE Band 4 Fixed Internal antenna with -0.06dBi gain For LTE Band 17	
HW VERSION	VM6200MD_C	
SW VERSION	VM6200V0.0.2	
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

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

where

Pd = power density in mW/cm²

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

WIFI

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
1	2412	11.31	N/A
6	2437	10.92	N/A
11	2462	11.32	N/A

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
1	2412	7.18	N/A
6	2437	7.56	N/A
11	2462	7.88	N/A

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	PASS/FAIL
1	2412	6.32	N/A
6	2437	6.18	N/A
11	2462	6.22	N/A



WCDMA

BAND	WCDMA II			WCDMA V		
CHANNEL	9262	9400	9538	4132	4182	4233
FREQUENCY (MHz)	1852.4	1880.0	1907.6	826.4	836.4	846.6
RMC 12.2K	23.21	22.88	22.83	22.86	22.61	22.13
HSPA						
HSDPA Subtest-1	22.47	21.91	22.10	21.84	21.53	21.03
HSDPA Subtest-2	22.46	21.88	22.13	21.78	21.48	21.02
HSDPA Subtest-3	21.94	21.36	21.62	21.27	21.01	20.59
HSDPA Subtest-4	21.93	21.41	21.60	21.31	21.02	20.41
HSUPA Subtest-1	21.81	21.24	21.44	21.44	21.26	20.88
HSUPA Subtest-2	20.07	19.52	19.63	19.71	19.50	18.83
HSUPA Subtest-3	20.80	20.18	20.31	20.43	20.30	19.76
HSUPA Subtest-4	19.80	19.25	19.39	19.38	19.28	18.76
HSUPA Subtest-5	21.95	21.37	21.42	21.44	21.17	20.99



LTE BAND 2

LTE Band 2							
BW	Modulation	RB Size	RB Offset	Low CH 18607	Mid CH 18900	High CH 19193	3GPP MPR (dB)
				Frequency 1850.7 MHz	Frequency 1880 MHz	Frequency 1909.3 MHz	
1.4MHz	QPSK	1	0	22.61	22.72	22.62	0
		1	2	22.33	22.5	22.53	0
		1	5	22.62	22.45	22.46	0
		3	0	22.59	22.7	22.6	0
		3	1	22.31	22.48	22.51	0
		3	3	22.6	22.43	22.44	0
		6	0	21.54	21.61	21.54	1
	16QAM	1	0	21.84	21.92	21.8	1
		1	2	21.82	21.76	21.79	1
		1	5	21.8	21.81	21.91	1
		3	0	21.83	21.91	21.79	1
		3	1	21.81	21.75	21.78	1
		3	3	21.79	21.8	21.9	1
		6	0	20.59	20.65	20.5	2



LTE Band 2							
BW	Modulation	RB Size	RB Offset	Low CH 18615	Mid CH 18900	High CH 19185	3GPP MPR (dB)
				Frequency 1851.5 MHz	Frequency 1880 MHz	Frequency 1908.5 MHz	
3 MHz	QPSK	1	0	22.67	22.78	22.68	0
		1	7	22.39	22.56	22.59	0
		1	14	22.68	22.51	22.52	0
		8	0	21.58	21.61	21.54	1
		8	3	21.58	21.52	21.54	1
		8	7	21.54	21.43	21.5	1
		15	0	21.6	21.67	21.6	1
	16QAM	1	0	21.9	21.98	21.86	1
		1	7	21.88	21.82	21.85	1
		1	14	21.86	21.87	21.97	1
		8	0	20.54	20.62	20.57	2
		8	3	20.55	20.53	20.55	2
		8	7	20.54	20.6	20.58	2
		15	0	20.65	20.71	20.56	2
BW	Modulation	RB Size	RB Offset	Low CH 18625	Mid CH 18900	High CH 19175	3GPP MPR (dB)
				Frequency 1852.5 MHz	Frequency 1880 MHz	Frequency 1907.5 MHz	
5 MHz	QPSK	1	0	22.7	22.81	22.71	0
		1	12	22.42	22.59	22.62	0
		1	24	22.71	22.54	22.55	0
		12	0	21.61	21.64	21.57	1
		12	6	21.61	21.55	21.57	1
		12	13	21.57	21.46	21.53	1
		25	0	21.63	21.7	21.63	1
	16QAM	1	0	21.93	22.01	21.89	1
		1	12	21.91	21.85	21.88	1
		1	24	21.89	21.9	22	1
		12	0	20.57	20.65	20.6	2
		12	6	20.58	20.56	20.58	2
		12	13	20.57	20.63	20.61	2
		25	0	20.68	20.74	20.59	2



LTE Band 2							
BW	Modulation	RB Size	RB Offset	Low CH 18650	Mid CH 18900	High CH 19150	3GPP MPR (dB)
				Frequency 1855 MHz	Frequency 1880 MHz	Frequency 1905 MHz	
10 MHz	QPSK	1	0	22.76	22.87	22.77	0
		1	24	22.48	22.65	22.68	0
		1	49	22.77	22.6	22.61	0
		25	0	21.67	21.7	21.63	1
		25	12	21.67	21.61	21.63	1
		25	25	21.63	21.52	21.59	1
		50	0	21.69	21.76	21.69	1
	16QAM	1	0	21.99	22.07	21.95	1
		1	24	21.97	21.91	21.94	1
		1	49	21.95	21.96	22.06	1
		25	0	20.63	20.71	20.66	2
		25	12	20.64	20.62	20.64	2
		25	25	20.63	20.69	20.67	2
		50	0	20.74	20.8	20.65	2
BW	Modulation	RB Size	RB Offset	Low CH 18675	Mid CH 18900	High CH 19125	3GPP MPR (dB)
				Frequency 1857.5 MHz	Frequency 1880 MHz	Frequency 1902.5 MHz	
15 MHz	QPSK	1	0	22.8	22.91	22.81	0
		1	37	22.52	22.69	22.72	0
		1	74	22.81	22.64	22.65	0
		36	0	21.71	21.74	21.67	1
		36	19	21.71	21.65	21.67	1
		36	39	21.67	21.56	21.63	1
		75	0	21.73	21.8	21.73	1
	16QAM	1	0	22.03	22.11	21.99	1
		1	37	22.01	21.95	21.98	1
		1	74	21.99	22	22.1	1
		36	0	20.67	20.75	20.7	2
		36	19	20.68	20.66	20.68	2
		36	39	20.67	20.73	20.71	2
		75	0	20.78	20.84	20.69	2



LTE Band 2							
BW	Modulation	RB Size	RB Offset	Low CH 18700	Mid CH 18900	High CH 19100	3GPP MPR (dB)
				Frequency 1860 MHz	Frequency 1880 MHz	Frequency 1900 MHz	
20MHz	QPSK	1	0	22.85	22.96	22.86	0
		1	50	22.57	22.74	22.77	0
		1	99	22.86	22.69	22.7	0
		50	0	21.76	21.79	21.72	1
		50	25	21.76	21.7	21.72	1
		50	50	21.72	21.61	21.68	1
		100	0	21.78	21.85	21.78	1
	16QAM	1	0	22.08	22.16	22.04	1
		1	50	22.06	22	22.03	1
		1	99	22.04	22.05	22.15	1
		50	0	20.72	20.8	20.75	2
		50	25	20.73	20.71	20.73	2
		50	50	20.72	20.78	20.76	2
		100	0	20.83	20.89	20.74	2



LTE BAND 4

LTE Band 4							
BW	Modulation	RB Size	RB Offset	Low CH 19965	Mid CH 20175	High CH 20385	MPR
				Frequency 1711.5 MHz	Frequency 1732.5 MHz	Frequency 1753.5 MHz	
3 MHz	QPSK	1	0	23.28	23.27	23.12	0
		1	7	23.23	23.17	23.1	0
		1	14	23.06	22.87	22.9	0
		8	0	22.36	22.34	22.26	1
		8	3	22.3	22.28	22.24	1
		8	7	22.27	22.2	22.23	1
		15	0	22.38	22.35	22.28	1
	16QAM	1	0	22.53	22.48	22.5	1
		1	7	22.51	22.52	22.44	1
		1	14	22.47	22.49	22.46	1
		8	0	21.29	21.26	21.09	2
		8	3	21.27	21.28	21.26	2
		8	7	21.19	21.21	21.22	2
		15	0	21.26	21.22	21.18	2
BW	Modulation	RB Size	RB Offset	Low CH 19975	Mid CH 20175	High CH 20375	MPR
				Frequency 1712.5 MHz	Frequency 1732.5 MHz	Frequency 1752.5 MHz	
5 MHz	QPSK	1	0	23.32	23.31	23.16	0
		1	12	23.27	23.21	23.14	0
		1	24	23.1	22.91	22.94	0
		12	0	22.4	22.38	22.3	1
		12	6	22.34	22.32	22.28	1
		12	13	22.31	22.24	22.27	1
		25	0	22.42	22.39	22.32	1
	16QAM	1	0	22.57	22.52	22.54	1
		1	12	22.55	22.56	22.48	1
		1	24	22.51	22.53	22.5	1
		12	0	21.33	21.3	21.13	2
		12	6	21.31	21.32	21.3	2
		12	13	21.23	21.25	21.26	2
		25	0	21.3	21.26	21.22	2



LTE Band 4							
BW	Modulation	RB Size	RB Offset	Low CH 20000	Mid CH 20175	High CH 20350	MPR
				Frequency 1715 MHz	Frequency 1732.5 MHz	Frequency 1750 MHz	
10 MHz	QPSK	1	0	23.35	23.34	23.19	0
		1	24	23.3	23.24	23.17	0
		1	49	23.13	22.94	22.97	0
		25	0	22.43	22.41	22.33	1
		25	12	22.37	22.35	22.31	1
		25	25	22.34	22.27	22.3	1
		50	0	22.45	22.42	22.35	1
	16QAM	1	0	22.6	22.55	22.57	1
		1	24	22.58	22.59	22.51	1
		1	49	22.54	22.56	22.53	1
		25	0	21.36	21.33	21.16	2
		25	12	21.34	21.35	21.33	2
		25	25	21.26	21.28	21.29	2
		50	0	21.33	21.29	21.25	2
BW	Modulation	RB Size	RB Offset	Low CH 20025	Mid CH 20175	High CH 20325	MPR
				Frequency 1717.5 MHz	Frequency 1732.5 MHz	Frequency 1747.5 MHz	
15 MHz	QPSK	1	0	23.41	23.4	23.25	0
		1	37	23.36	23.3	23.23	0
		1	74	23.19	23	23.03	0
		36	0	22.49	22.47	22.39	1
		36	19	22.43	22.41	22.37	1
		36	39	22.4	22.33	22.36	1
		75	0	22.51	22.48	22.41	1
	16QAM	1	0	22.66	22.61	22.63	1
		1	37	22.64	22.65	22.57	1
		1	74	22.6	22.62	22.59	1
		36	0	21.42	21.39	21.22	2
		36	19	21.4	21.41	21.39	2
		36	39	21.32	21.34	21.35	2
		75	0	21.39	21.35	21.31	2



LTE Band 4							
BW	Modulation	RB Size	RB Offset	Low CH 20050	Mid CH 20175	High CH 20300	MPR
				Frequency 1720 MHz	Frequency 1732.5 MHz	Frequency 1745 MHz	
20MHz	QPSK	1	0	23.46	23.45	23.3	0
		1	50	23.41	23.35	23.28	0
		1	99	23.24	23.05	23.08	0
		50	0	22.54	22.52	22.44	1
		50	25	22.48	22.46	22.42	1
		50	50	22.45	22.38	22.41	1
		100	0	22.56	22.53	22.46	1
	16QAM	1	0	22.71	22.66	22.68	1
		1	50	22.69	22.7	22.62	1
		1	99	22.65	22.67	22.64	1
		50	0	21.47	21.44	21.27	2
		50	25	21.45	21.46	21.44	2
		50	50	21.37	21.39	21.4	2
		100	0	21.44	21.4	21.36	2



LTE BAND 5

Band/BW	Modulation	RB Size	RB Offset	Low CH 20407	Mid CH 20525	High CH 20643	3GPP MPR (dB)
				Frequency 824.7 MHz	Frequency 836.5 MHz	Frequency 848.3 MHz	
5/1.4	QPSK	1	0	23.06	22.92	22.9	0
		1	2	22.83	22.94	22.84	0
		1	5	22.9	22.71	22.78	0
		3	0	23.04	22.9	22.88	0
		3	1	22.81	22.92	22.82	0
		3	3	22.88	22.69	22.76	0
		6	0	21.88	21.78	21.78	1
	16QAM	1	0	21.81	21.61	21.73	1
		1	2	21.78	21.64	21.55	1
		1	5	21.8	21.79	21.78	1
		3	0	21.8	21.6	21.72	1
		3	1	21.77	21.63	21.54	1
		3	3	21.79	21.78	21.77	1
		6	0	20.88	20.62	20.59	2

Band/BW	Modulation	RB Size	RB Offset	Low CH 20415	Mid CH 20525	High CH 20635	3GPP MPR (dB)
				Frequency 825.5 MHz	Frequency 836.5 MHz	Frequency 847.5 MHz	
5/3	QPSK	1	0	23.08	22.94	22.92	0
		1	7	22.85	22.96	22.86	0
		1	14	22.92	22.73	22.8	0
		8	0	21.85	21.78	21.73	1
		8	3	21.8	21.69	21.66	1
		8	7	21.79	21.68	21.67	1
		15	0	21.9	21.8	21.8	1
	16QAM	1	0	21.83	21.63	21.75	1
		1	7	21.8	21.66	21.57	1
		1	14	21.82	21.81	21.8	1
		8	0	20.86	20.63	20.62	2
		8	3	20.83	20.67	20.63	2
		8	7	20.8	20.67	20.54	2
		15	0	20.9	20.64	20.61	2



Band/BW	Modulation	RB Size	RB Offset	Low CH 20425	Mid CH 20525	High CH 20625	3GPP MPR (dB)
				Frequency 826.5 MHz	Frequency 836.5 MHz	Frequency 846.5 MHz	
5/5	QPSK	1	0	23.11	22.97	22.95	0
		1	12	22.88	22.99	22.89	0
		1	24	22.95	22.76	22.83	0
		12	0	21.88	21.81	21.76	1
		12	6	21.83	21.72	21.69	1
		12	13	21.82	21.71	21.7	1
		25	0	21.93	21.83	21.83	1
	16QAM	1	0	21.86	21.66	21.78	1
		1	12	21.83	21.69	21.6	1
		1	24	21.85	21.84	21.83	1
		12	0	20.89	20.66	20.65	2
		12	6	20.86	20.7	20.66	2
		12	13	20.83	20.7	20.57	2
		25	0	20.93	20.67	20.64	2

Band/BW	Modulation	RB Size	RB Offset	Low CH 20450	Mid CH 20525	High CH 20600	3GPP MPR (dB)
				Frequency 829 MHz	Frequency 836.5 MHz	Frequency 844 MHz	
5/10	QPSK	1	0	23.16	23.02	23	0
		1	24	22.93	23.04	22.94	0
		1	49	23	22.81	22.88	0
		25	0	21.93	21.86	21.81	1
		25	12	21.88	21.77	21.74	1
		25	25	21.87	21.76	21.75	1
		50	0	21.98	21.88	21.88	1
	16QAM	1	0	21.91	21.71	21.83	1
		1	24	21.88	21.74	21.65	1
		1	49	21.9	21.89	21.88	1
		25	0	20.94	20.71	20.7	2
		25	12	20.91	20.75	20.71	2
		25	25	20.88	20.75	20.62	2
		50	0	20.98	20.72	20.69	2



LTE BAND 17

LTE Band 17							
BW	Modulation	RB Size	RB Offset	Low CH 23755	Mid CH 23790	High CH 23825	MPR
				Frequency 706.5 MHz	Frequency 710 MHz	Frequency 713.5 MHz	
5 MHz	QPSK	1	0	22.54	22.47	22.46	0
		1	12	22.5	22.44	22.51	0
		1	24	22.52	22.51	22.42	0
		12	0	21.06	21.24	21.29	1
		12	6	21.27	21.36	21.33	1
		12	13	21.39	21.23	21.22	1
		25	0	21.31	21.07	21.15	1
	16QAM	1	0	21.43	21.29	21.15	1
		1	12	21.42	21.41	21.16	1
		1	24	21.41	21.28	21.19	1
		12	0	20.54	20.34	20.26	2
		12	6	20.46	20.36	20.38	2
		12	13	20.46	20.4	20.37	2
		25	0	20.61	20.6	20.59	2
BW	Modulation	RB Size	RB Offset	Low CH 23780	Mid CH 23790	High CH 23800	MPR
				Frequency 709 MHz	Frequency 710 MHz	Frequency 711 MHz	
10 MHz	QPSK	1	0	22.59	22.52	22.51	0
		1	24	22.55	22.49	22.56	0
		1	49	22.57	22.56	22.47	0
		25	0	21.11	21.29	21.34	1
		25	12	21.32	21.41	21.38	1
		25	25	21.44	21.28	21.27	1
		50	0	21.36	21.12	21.2	1
	16QAM	1	0	21.48	21.34	21.2	1
		1	24	21.47	21.46	21.21	1
		1	49	21.46	21.33	21.24	1
		25	0	20.59	20.39	20.31	2
		25	12	20.51	20.41	20.43	2
		25	25	20.51	20.45	20.42	2
		50	0	20.66	20.65	20.64	2



3.5 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

WIFI

Band	Frequency (MHz)	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
11b	2412	2.20	11.31	22.439	0.004	1.00	PASS
11b	2462	2.20	11.32	22.491	0.004	1.00	PASS

WCDMA

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
WCDMA850	826.4	RMC12.2k	-0.51	22.86	171.791	0.034	0.55	PASS
WCDMA1900	1852.4	RMC12.2k	2.93	23.21	411.150	0.082	1.00	PASS

LTE

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
Band2	1880.0	QPSK	2.93	22.96	388.150	0.077	1.00	PASS
Band4	1720.0	QPSK	2.72	23.46	414.954	0.083	1.00	PASS
Band5	829.0	QPSK	-0.51	23.16	184.077	0.037	0.55	PASS
Band17	706.5	QPSK	-0.06	22.54	177.011	0.035	0.47	PASS