RF EXPOSURE REPORT



Report No.: 15071014-FCC-H2
Supersede Report No.: N/A

Applicant	Verykool USA Inc			
Product Name	Mobile Phone			
Model No.	s4512			
Serial No.	N/A			
Test Standard	FCC 2.109	3:2014		
Test Date	October 26	to December 03, 2015		
Issue Date	December	December 04, 2015		
Test Result	Pass Fail			
Equipment compli	Equipment complied with the specification			
Equipment did no	Equipment did not comply with the specification			
Winnie.Z	Winnie Zheng David Huang			
Winnie Zhang Test Engineer		David Huang Checked By		

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Test result presented in this test report is applicable to the tested sample only

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety



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1. Report Revision History

Report No.	Report Version	Description	Issue Date
15071014-FCC-H2	NONE	Original	December 04, 2015

2. Customer information

Applicant Name	Verykool USA Inc	
Applicant Add	3636 Nobel Drive, Suite 325, San Diego, CA 92122 USA	
Manufacturer	HUIZHOU QIAOXING ELECTRONICS TECHNOLOGY CO.,LTD	
Manufacturer Add	Room 1906 of VIA Building, No.9966 Shennan Avenue, Yuehai Street in Nanshan District,	
	Shenzhen	

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES		
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park		
Lab Address	South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong		
	China 518108		
FCC Test Site No.	718246		
IC Test Site No.	4842E-1		
Test Software	Radiated Emission Program-To Shenzhen v2.0		



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4. Equipment under Test (EUT) Information

Description of EUT: Mobile Phone

Main Model: s4512

Serial Model: N/A

Date EUT received: October 25,2015

Test Date(s): October 26 to December 03, 2015

GSM850: 1.9dBi PCS1900: 3.9dBi

UMTS-FDD Band V: 1.9 dBi

Antenna Gain: UMTS-FDD Band II: 3.9 dBi

Bluetooth: 3.1dBi WIFI: 2.9dBi

GPS: 1.9dBi

GSM / GPRS: GMSK

EGPRS: GMSK

Type of Modulation: UMTS-FDD: QPSK, 16QAM

802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

GPS:BPSK

GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz

PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz

UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz

UMTS-FDD Band II TX:1852.4 \sim 1907.6 MHz;

RF Operating Frequency (ies):

RX: 1932.4 ~ 1987.6 MHz

WIFI:802.11b/g/n(20M): 2412-2462 MHz

Bluetooth: 2402-2480 MHz GPS RX:1575.42 MHz

GSM 850: 124CH Number of Channels:

PCS1900: 299CH



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UMTS-FDD Band V : 102CH
UMTS-FDD Band II : 277CH
WIFI :802.11b/g/n(20M): 11CH

Bluetooth: 79CH

GPS:1CH

Port: Power Port, Earphone Port, USB Port

Adapter:

Model:STC-A515A-Z

Input: AC 100-240V; 50/60Hz;300mA

Output: DC5.0V;1500mA

Input Power:

Battery:

Model:Q450

Spec:DC3.8V,1800mAh,6.84Wh Limited charger voltage:4.35V

Trade Name : verykool

GPRS/EGPRS Multi-slot class 8/10/12

FCC ID: WA6S4512



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5. FCC §2.1093 - Radiofrequency radiation exposure evaluation: portable devices.

5.1 RF Exposure

Standard Requirement:

According to §15.247 (i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f_{(GHz)}}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, 16 where

- f_(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is ≤ 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

result = $P\sqrt{F}/D$

P= Maximum turn-up power in mW

F= Channel frequency in GHz

D= Minimum test separation distance in mm



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5.2 Test Result

Bluetooth Mode:

Modulation	СН	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
GFSK	Low	2402	-1.248	-1±1	0	1	0.31	3
	Mid	2441	-0.884	-1±1	0	1	0.31	3
	High	2480	-0.520	-1±1	0	1	0.31	3
π /4 DQPSK	Low	2402	0.897	1±1	2	1.585	0.49	3
	Mid	2441	1.189	1±1	2	1.585	0.50	3
	High	2480	1.632	1±1	2	1.585	0.50	3
8-DPSK	Low	2402	1.375	2±1	3	1.995	0.62	3
	Mid	2441	1.559	2±1	3	1.995	0.62	3
	High	2480	2.024	2±1	3	1.995	0.63	3

WIFI Mode:

Modulation	СН	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
802.11b	Low	2412	5.50	5±1	6	3.981	1.24	3
	Mid	2437	5.53	5±1	6	3.981	1.24	3
	High	2462	5.54	5±1	6	3.981	1.25	3
802.11g	Low	2412	8.38	8±1	9	7.943	2.47	3
	Mid	2437	8.11	8±1	9	7.943	2.48	3
	High	2462	8.21	8±1	9	7.943	2.49	3
802.11n (20M)	Low	2412	8.68	8±1	9	7.943	2.47	3
	Mid	2437	8.80	8±1	9	7.943	2.48	3
	High	2462	8.91	8±1	9	7.943	2.49	3

Result: Compliance

No SAR measurement is required.