
TEST REPORT

Report No.: SRMC2009-H024-E0008

Product Name: GSM/GPRS/EDGE Digital Mobile Phone

Product Model: i280

Applicant: verykool USA, Inc.

Manufacturer: Inventec Appliances (Jiangning)
Corporation

Specification: FCC Part15B July 10, 2008, (Certification)

FCC ID: WA6I280

The State Radio Monitoring Center

State Radio Spectrum Monitoring and Testing Center

No.80 Beilishi Road Xicheng District Beijing, China

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1. General information

1.1 Notes of the test report

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The test results relate only to individual items of the samples which have been tested.

1.2 Information about the testing laboratory

Company: The State Radio Monitoring Center
State Radio Spectrum Monitoring and Testing Center
Address: No.80 Beilishi Road, Xicheng District, Beijing China
City: Beijing
Country or Region: China
Contacted person: Wang Junfeng
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Email: Wangjf@srrc.org.cn

1.3 Applicant's details

Company: verykool USA, Inc.
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USA
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Country or Region: USA
Grantee Code: WA6
Contacted person: Sunny Choi
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Fax: +1-858-373-1505
Email: sunny.choi@infosonics.com

1.4 Manufacturer's details

Company: Inventec Appliances (Jiangning) Corporation
Address: Jiangning Economic and Technological Development Zone
City: Nanjing, 211153 Jiangsu
Country or Region: P.R.China
Grantee Code: WA6
Contacted person: William Zhang
Tel: +86 25 52262313
Fax: +86 25 52218366
Email: zhang.hui-liang@inventec-inc.com

1.5 Application details

Date of reception of test sample: 1st Dec 2008

Date of test: 1st Dec 2008 to 12th Jan 2009

1.6 Reference specification

FCC Part 15B July 10, 2008, (Certification)

1.7 Information of EUT

1.7.1 General information

Name of EUT	GSM/GPRS/EDGE Digital Mobile Phone
FCC ID	WA6I280
Frequency range	GSM850: Tx:824~849MHz Rx:869~894MHz PCS1900: Tx:1850~1910MHz Rx:1930~1990MHz
Rated output power	GSM850:33.0dBm PCS1900:30.0dBm
E.R.P. & E.I.R.P.	E.R.P.: 29.6dBm E.I.R.P.: 28.5dBm
Modulation type	GMSK/8PSK
Emission Designator	300KGXW/300KG7W
Duplex mode	FDD
Equipment Class	Class B
Duplex spacing:	GSM850:45MHz PCS1900:80MHz
Antenna type	Integral
Power Supply	Battery or charger
Rated Power Supply Voltage	3.7V
Extreme Temperature	Lowest: -30°C Highest: +50°C
Extreme Voltage	Minimum: 3.6V Maximum: 4.2V
HW Version	2A
SW Version	1.00

1.7.2 EUT details

Name	Model	IMEI
GSM/GPRS/EDGE Digital Mobile Phone	i280	352026019999990

1.7.3 Auxiliary equipment details


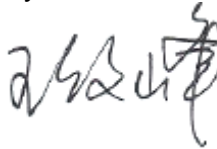
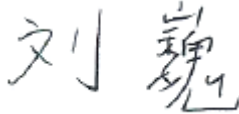
Equipment	Charger
Manufacturer	DEE VAN ENTERPRISE CO., LTD
Model Number	DSC-5WU-05 FUS 050050

Equipment	Battery
Manufacturer	BYD COMPANY LIMITED
Model Number	LP053850ARU
Capacity	1200mAh
Rated Voltage	3.7V

2. Test information:

2.1 Summary of the test results:

No.	Test case	FCC reference	Verdict
1	Conducted emissions	15.107	Pass
2	Radiated emissions	15.109	Pass

This Test Report Is Issued by: Mr. Song Qizhu, Director of the test lab 	Checked by: 
Tested by: 	Issued date: 23rd April, 2009

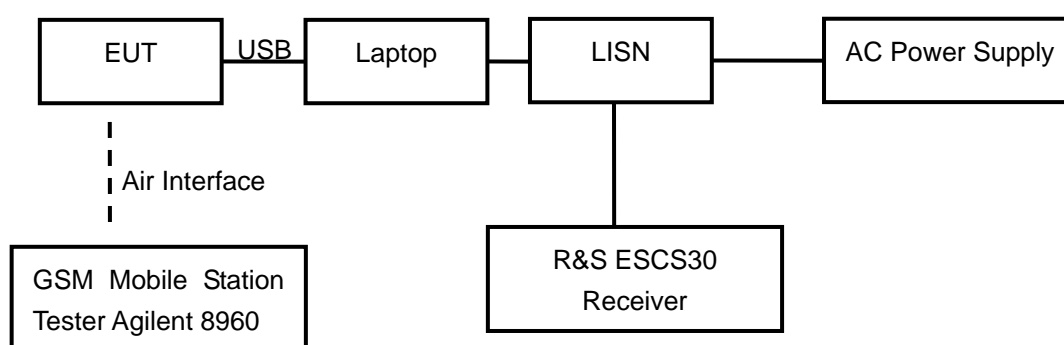
2.2 Test result

2.2.1 Conducted Emissions-FCC Part15.107

Ambient condition:

Temperature	Relative humidity	Pressure
22°C	55%	101.5kPa

Test Setup:



Test Procedure:

The EUT is placed on a non-metallic table 0.8m above the horizontal metal reference ground plane. The EUT connect with a laptop via the USB cable. The accessories of the EUT are connected with the EUT such as headset etc. During the test the data transferring via USB cable between EUT and laptop is maintained. The AC main power supply of the laptop is connected to LISN and LISN is connected to the reference ground. The test set-up and the test methods are performed according to ANSI C63.4:2003. The measurement should be done for both L line and N line. The receiver uses both average detector and Quasi-peak detector. The EUT is working in idle mode.

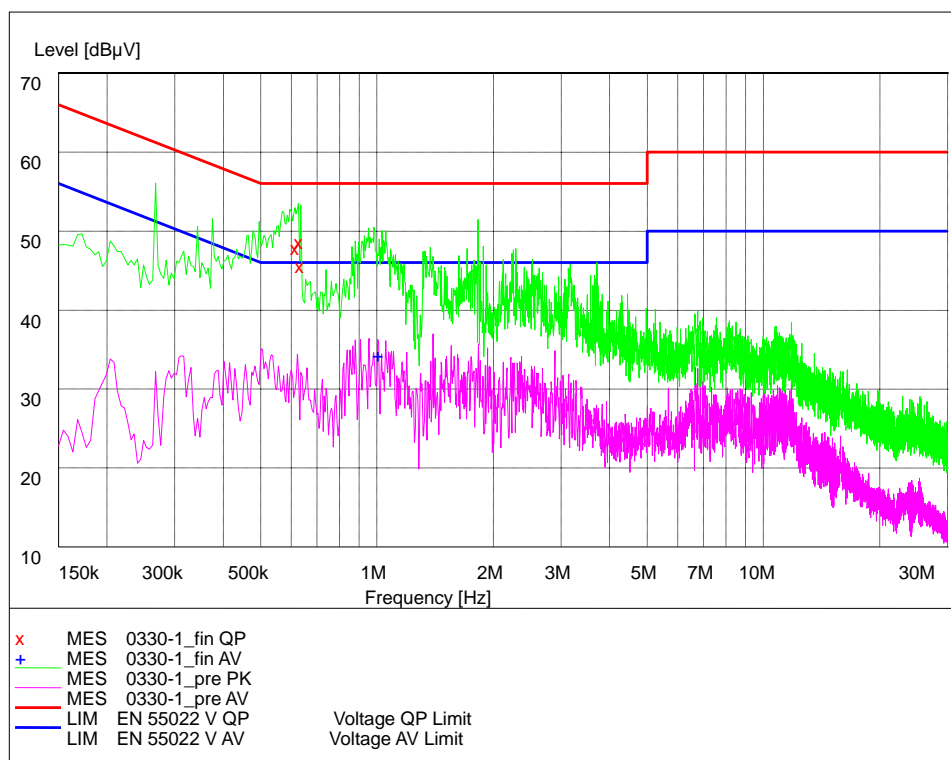
Limit:

Frequency of Emission(MHz)	Limits(dBμV)	
	Quasi-peak	Average
0.15~0.5	66 to 56*	56 to 46*
0.5~5	56	46
5~30	60	50

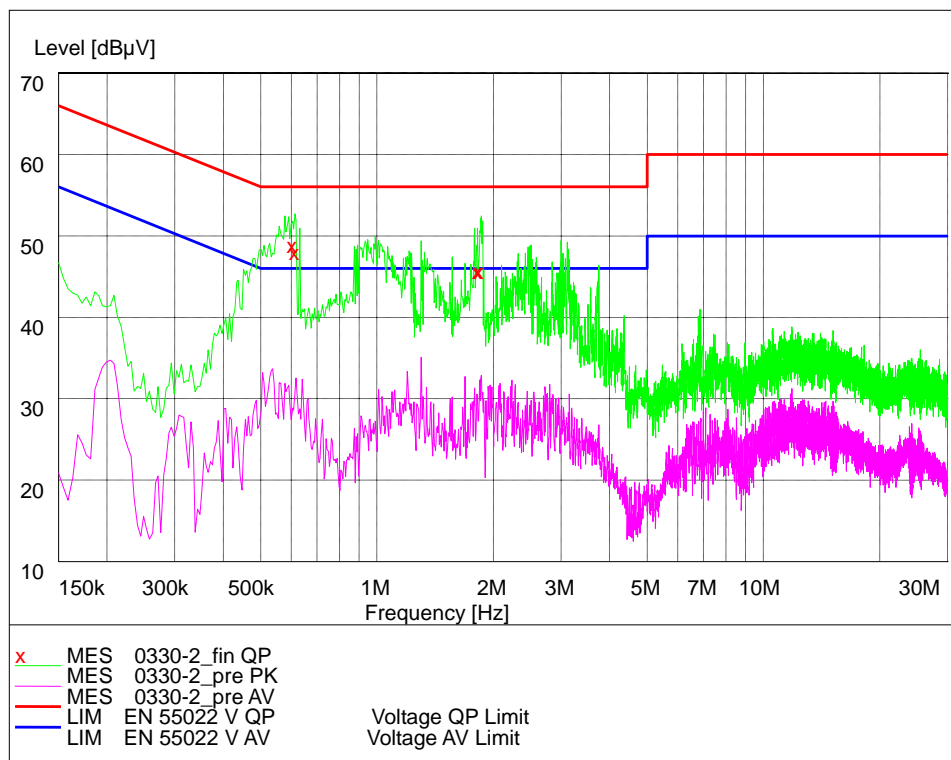
Note: * Decreases with the logarithm of the frequency

Test result:

Refer to the following figures.



L Line



N Line

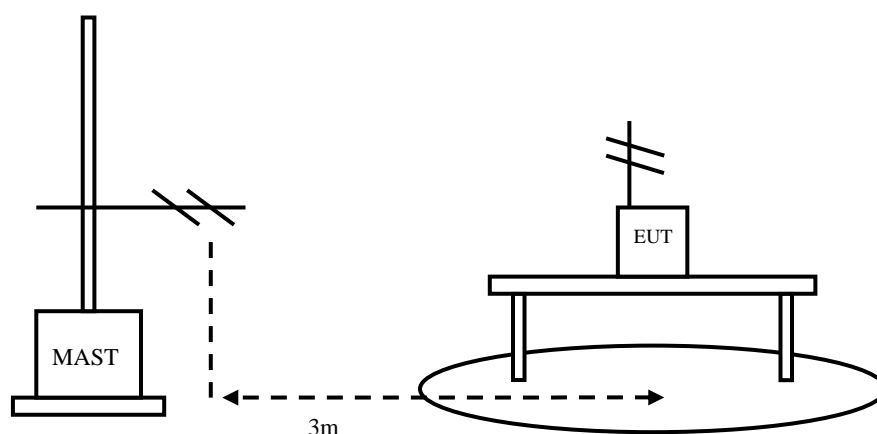
Frequency (MHz)	Detector	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)
1.009500	Average	L	35.60	46	10.4
0.618000	Quasi-peak	L	49.10	56	6.9
0.631500	Quasi-peak	L	50.00	56	6.0
0.636000	Quasi-peak	L	46.80	56	9.2
0.604500	Quasi-peak	N	50.10	56	5.9
0.613500	Quasi-peak	N	49.30	56	6.7
1.828500	Quasi-peak	N	46.90	56	9.1
1.842000	Quasi-peak	N	46.90	56	9.1

2.2.2 Radiated Emissions-FCC Part15.109

Ambient condition:

Temperature	Relative humidity	Pressure
22°C	55%	101.5kPa

Test Setup:



Test Procedure:

The EUT should be placed on a non-metallic table 80cm above the ground plane. The receive antennas shall be moved from 1 to 4 meters. The distance between EUT and receive antenna should be 3 meters.

The accessories of the EUT are connected with the EUT such as headset etc. During the test the data transferring via USB cable between EUT and laptop is maintained. The test set-up and the test methods are performed according to ANSI C63.4:2003.

Then start the test software ES-K1. Sweep the whole frequency band through the range from 30MHz to 1GHz, using receive log period antenna HL562.

During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna.

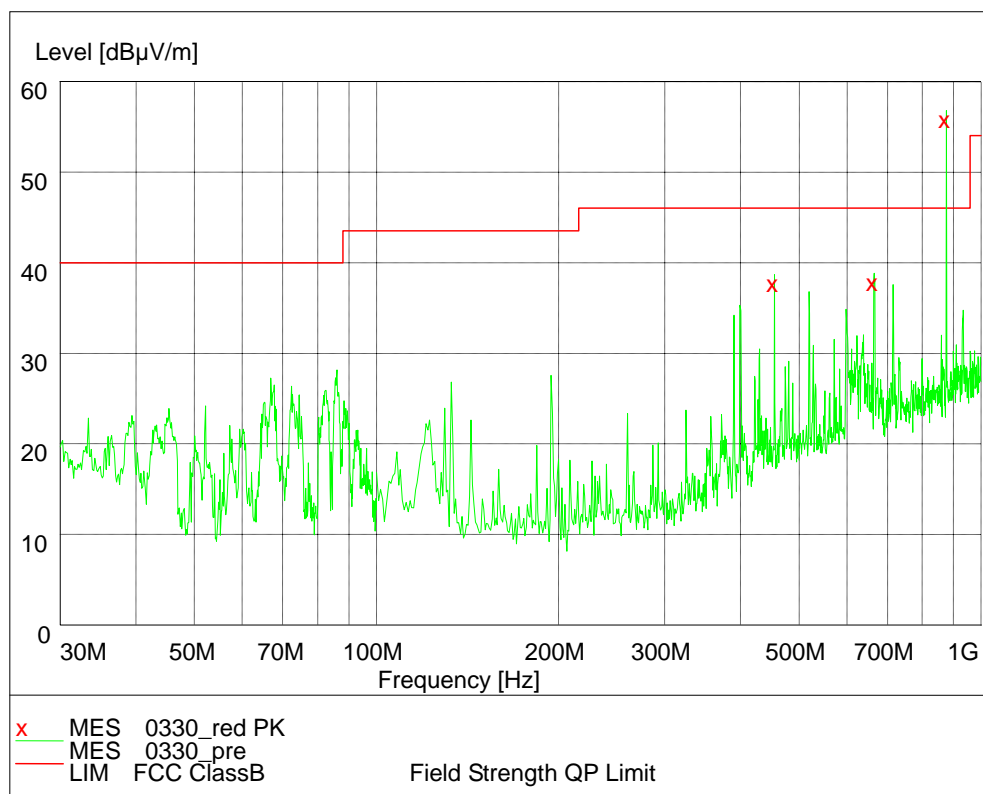
The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Limit:

Frequency of Emission(MHz)	Limits	
	Detector	Unit (dB μ V/m)
30~88	Quasi-peak	40
88~216	Quasi-peak	43.5
216~960	Quasi-peak	46
960~1000	Quasi-peak	54
1000~5th harmonic of the highest frequency or 40GHz, whichever is lower	Average	54
	Peak	74

Test result:

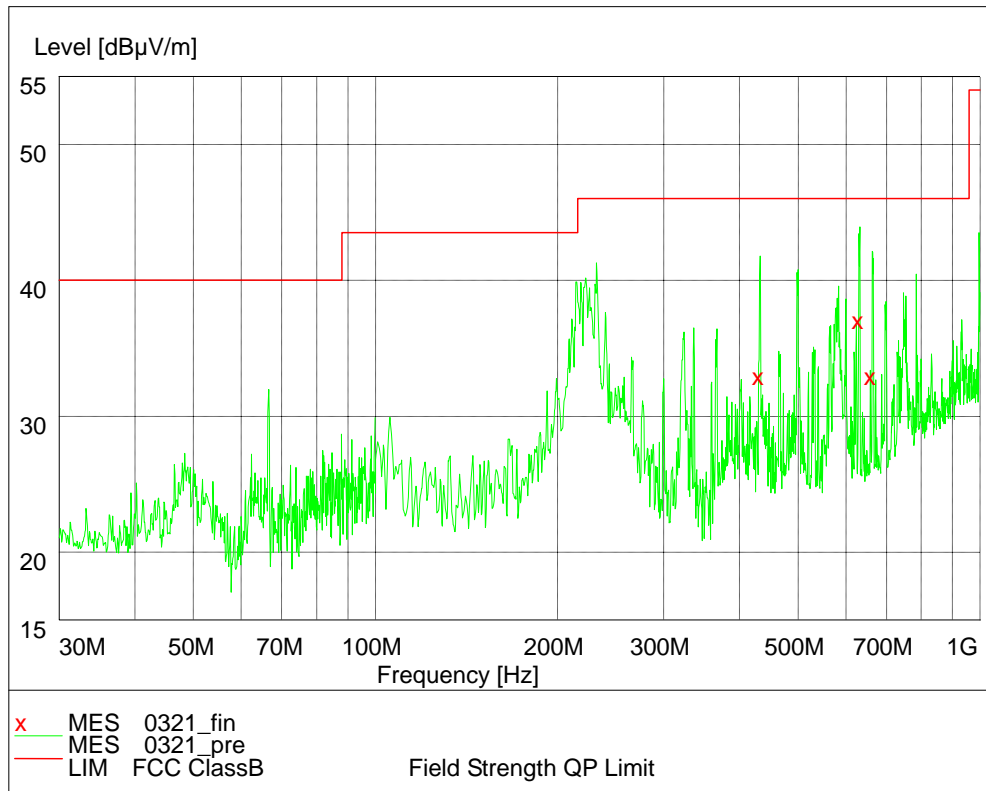
Refer to the following figures.



GSM 850

Note: The signal beyond the limit is the base station simulator carrier.

For measurement above 1GHz, all emissions level measured were more than 10dB below the limit.



PCS 1900

Note: For measurement above 1GHz, all emissions level measured were more than 10dB below the limit.

2.3. List of test equipments

No.	Name/Model	Manufacturer	S/N	Calibration Date
1	23.18m×16.88m×9.60m Semi-Anechoic Chamber	FRANKONIA	-----	19 th Aug. 2008
2	ESI 40 EMI test receiver	R&S	100015	19 th Aug. 2008
3	E5515C(8960) Mobile Station Tester	Agilent	GB44050904	19 th Aug. 2008
4	9.080m×5.255m×3.525m Shielding room	FRANKONIA	-----	19 th Aug. 2008
5	ESCS30 EMI test receiver	R&S	100029	19 th Aug. 2008
6	HL562 Ultra log test antenna	R&S	100016	19 th Aug. 2008
7	ESH3-Z2 Pulse limiter	R&S	10002	19 th Aug. 2008
8	ESH3-Z5 Attenuator	R&S	100020	19 th Aug. 2008
9	ESH2Z11 LISN	R&S	50FH-020-10	19 th Aug. 2008
10	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100030	19 th Aug. 2008
11	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100029	19 th Aug. 2008
12	PS2000 Turn Table	FRANKONIA	-----	19 th Aug. 2008
13	MA260 Antenna Master	FRANKONIA	-----	19 th Aug. 2008
14	ES-K1EMI test software	R&S	-----	19 th Aug. 2008
15	HL562 Receive antenna	R&S	100167	19 th Aug. 2008

Appendix