Verykool USA INC.

Mobile Phone

Main Model: R27 Serial Model: N/A

March 26, 2014

Report No.: 13070616-FCC-R1 (This report supersedes NONE)



Modifications made to the product: None

This Test Report is Issued Under the Authority of:

Back Huang
Compliance Engineer

Technical Manager

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

IEMIC, INC.

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Laboratory Introduction

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Country/Region	Accreditation Body	Scope
USA	FCC, A2LA	EMC, RF/Wireless, Telecom
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Taiwan	BSMI , NCC , NIST	EMC, RF, Telecom, Safety
Hong Kong	OFTA , NIST	RF/Wireless ,Telecom
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Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Singapore	iDA, NIST	EMC, RF, Telecom
Europe	A2LA, NIST	EMC, RF, Telecom, Safety



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1. **EXECUTIVE SUMMARY & EUT INFORMATION**

The purpose of this test programmed was to demonstrate compliance of the Verykool USA INC., Mobile Phone and model: R27 against the current Stipulated Standards. The Mobile Phone has demonstrated compliance with the FCC Part 22(H) & FCC Part 24(E): 2013.

EUT Information

EUT

Description

: Mobile Phone

Main Model : R27

Serial Model : N/A

UMTS-FDD Band V/GSM850: -0.7 dBi

Antenna Gain UMTS-FDD Band II/PCS1900: 1 dBi

Bluetooth: 0.2 dBi

Battery:

Model: 523447AR

Spec: 3.7V 900mAh(3.33Wh) Limited charger voltage: 4.2 V

Input Power Adapter:

Model: NB-0500500U

Input: 100-240V 50/60Hz 0.15A

Output: 5V 0.5A

GSM850: 32.14 dBm Maximum Conducted

PCS1900: 28.98 dBm

AV Power to Antenna

UMTS-FDD Band V: 23.88 dBm UMTS-FDD Band II: 24.56 dBm

GSM850: 34.88 dBm / ERP

Maximum PCS1900:25.41 dBm / EIRP

Radiated UMTS-FDD Band V: 25.38 dBm / ERP ERP/EIRP

UMTS-FDD Band II: 20.71 dBm / EIRP

Classification

Per Stipulated

: FCC Part 22(H) & FCC Part 24(E): 2013

Test Standard



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	2. TECHNICAL DETAILS				
Purpose	Compliance testing of Mobile Phone with stipulated standard				
Applicant / Client	Verykool USA INC. 3636 Nobel Drive, Suite 325, San Diego, CA 92122				
Manufacturer	Verykool Wireless Technology Ltd. Room 802,Fangda Building,Science Park Nanshan District,Shenzhen,P.R.China				
Laboratory performing the tests	SIEMIC (Shenzhen-China) Laborat Zone A, Floor 1, Building 2, Wan Ye Long Technology Park, South of Zhoushi Road, Bao'an District, Shenzhen, Guangdong, C Tel: +86-0755-2601 4629 / 2601 Fax: +86-0755-2601 4953 Email: China@siemic				
Test report reference number	13070616-FCC-R1				
Date EUT received	January 21, 2014				
Standard applied	FCC Part 22(H) & FCC Part 24(E): 2013				
Dates of test	March 18, 2014 - March 20, 2014				
No of Units	#1				
Equipment Category	PCE				
Trade Name	Verykool				
RF Operating Frequency (ies)	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 ~ 1907.6 MHz; RX : 1932.4 ~ 1987.6 MHz Bluetooth: 2402-2480 MHz				
Number of Channels	299CH (PCS1900) and 124CH (GSM850) UMTS-FDD Band V : 102CH UMTS-FDD Band II : 277CH Bluetooth: 79CH				
Modulation	GSM / GPRS: GMSK UMTS-FDD: QPSK Bluetooth: GFSK& π /4DQPSK&8DPSK				
GPRS Multi-slot class	8/10/12				
FCC ID	WA6R27				



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3 MODIFICATION

NONE

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3. TEST SUMMARY

The product was tested in accordance with the following specifications. All testing has been performed according to below product classification:

PCE

Test Results Summary

Test Standard	Description	Product Class	Pass / Fail
§ 1.1307, § 2.1093	RF Exposure (SAR)	See Above	Pass
\$2.1046; \$ 22.913 (a); \$ 24.232 (c)	RF Output Power	See Above	Pass
§ 2.1047	Modulation Characteristics	See Above	N/A
§ 2.1049; § 22.905 § 22.917; § 24.238	99% & -26 dB Occupied Bandwidth	See Above	Pass
§ 2.1051, § 22.917 (a); § 24.238 (a)	Spurious Emissions at Antenna Terminal	See Above	Pass
§ 2.1053 § 22.917 (a); § 24.238 (a)	Field Strength of Spurious Radiation	See Above	Pass
§ 22.917 (a); § 24.238 (a)	Out of band emission, Band Edge	See Above	Pass
§ 2.1055 § 22.355; § 24.235	Frequency stability vs. temperature Frequency stability vs. voltage	See Above	Pass

Note: Testing was performed by configuring EUT to maximum output power status, the declared output power class for different.

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4. <u>MEASUREMENTS, EXAMINATION AND DERIVED</u> <u>RESULTS</u>

5.1 §1.1307, §2.1093- RF Exposure (SAR)

Test Result: Pass

The EUT is a portable device, thus requires SAR evaluation; Please refer to SIEMIC SAR Report: 13070616-FCC-H

5.2 § 2.1046; §22.913 (a); §24.232 (c) - RF Output Power

1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The spectrum analyzer was connected to the antenna terminal.

2. Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz - 40GHz is $\pm 1.5dB$.

3. Environmental Conditions Temperature

Relative Humidity 46% Atmospheric Pressure 1016mbar

20°C

4. Test date: March 18, 2014 Tested By: Back Huang

Procedures:

For Conducted Power:

- 1. The transmitter output port was connected to base station.
- 2. Set EUT at maximum power through base station.
- 3. Select lowest, middle, and highest channels for each band and different test mode.

For ERP/EIRP:

- 5. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.
- 6. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
- 7. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
- 8. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = 10 lg (TXpwr in Watts/0.001) - the absolute level

Spurious attenuation limit in $dB = 43 + 10 \text{ Log}_{10}$ (power out in Watts)

Test Result: Pass

Remark: Conducted Burst Average power for reporting purposes only



Conducted Power

GSM Mode:

Burst Average Power (dBm);								
Band		GSN	1 850			PCS	1900	
Channel	128	190	251	Tune up Power tolerant	512	661	810	Tune up Power tolerant
Frequency (MHz)	824.2	836.6	848.8	/	1850.2	1880	1909.8	/
GSM Voice (1 uplink),GMSK	32.14	32.03	32.01	32±1	28.91	28.89	28.98	29±1
GPRS Multi-Slot Class 8 (1 uplink),GMSK	32.13	32.00	31.98	32±1	28.91	28.87	28.97	29±1
GPRS Multi-Slot Class 10 (2 uplink),GMSK	31.24	31.10	31.08	31±1	28.06	28.04	28.12	28±1
GPRS Multi-Slot Class 12 (4 uplink),GMSK	28.71	28.55	28.53	28±1	25.53	25.49	25.60	25±1

Remark:

GPRS, CS1 coding scheme.

Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link

Multi-Slot Class 10 , Support Max 4 downlink, 2 uplink , 5 working link

Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link

Note: Since GSM mode has higher power, so the test items below were not performed to GPRS mode.

UMTS Mode:

UMTS-FDD Band V

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)
RMC 12.2kbps	4132	826.4	23.78
	4175	835.0	23.88
	4233	846.6	23.72

UMTS-FDD Band II

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)
DMC	9262	1852.4	23.77
RMC 12.2kbps	9400	1880.0	24.56
	9538	1907.6	24.08

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ERP & EIRP (worst case) ERP for Cellular Band (Part 22H)

				,		
Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
824.2	25.94	V	6.8	0.53	32.21	38.45
824.2	25.71	Н	6.8	0.53	31.98	38.45
836.6	27.05	V	6.8	0.53	33.32	38.45
836.6	26.78	Н	6.8	0.53	33.05	38.45
848.8	28.51	V	6.9	0.53	34.88	38.45
848.8	28.17	Н	6.9	0.53	34.54	38.45

EIRP for PCS Band (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1850.2	18.21	V	7.88	0.85	25.24	33
1850.2	18.38	Н	7.88	0.85	25.41	33
1880	18.05	V	7.88	0.85	25.08	33
1880	18.12	Н	7.88	0.85	25.15	33
1909.8	17.53	V	7.86	0.85	24.54	33
1909.8	17.45	Н	7.86	0.85	24.46	33

ERP for UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
826.4	18.06	V	6.8	0.53	24.33	38.45
826.4	6.82	Н	6.8	0.53	13.09	38.45
835	18.55	V	6.8	0.53	24.82	38.45
835	7.29	Н	6.8	0.53	13.56	38.45
846.6	19.01	V	6.9	0.53	25.38	38.45
846.6	7.77	Н	6.9	0.53	14.14	38.45

EIRP for UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1852.4	12.35	V	7.88	0.85	19.38	33
1852.4	13.68	Н	7.88	0.85	20.71	33
1880	11.65	V	7.88	0.85	18.68	33
1880	13.03	Н	7.88	0.85	20.06	33
1907.6	10.86	V	7.86	0.85	17.87	33
1907.6	12.22	Н	7.86	0.85	19.23	33

5.3 §2.1047 - Modulation Characteristic

According to FCC § 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

5.4 §2.1049, §22.917, §22.905 & §24.238 - Occupied Bandwidth

1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The spectrum analyser was connected to the antenna terminal.

2. Environmental Conditions Temperature 21°C

Relative Humidity 54% Atmospheric Pressure 1018mbar

3. Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz - 40GHz is $\pm 1.5dB$.

4. Test date: March 19, 2014 Tested By: Back Huang

Procedures:

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.

2. The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers.

Test Results: Pass

Cellular Band (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
128	824.2	247.0079	320.547
190	836.6	243.8973	318.220
251	848.8	246.8364	314.639

PCS Band (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	245.5856	320.975
661	1880.0	245.8306	317.281
810	1909.8	244.3132	313.957

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UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.4	4.1700	4.710
4175	835.0	4.1788	4.705
4233	846.6	4.1773	4.713

UMTS-FDD Band II (Part 24E)

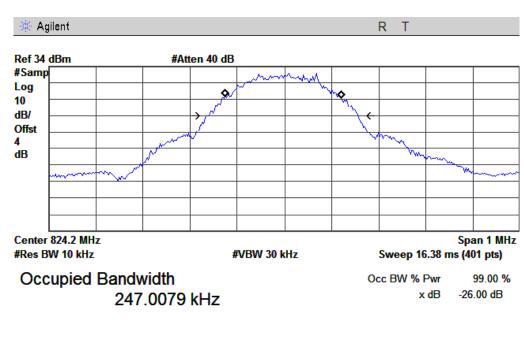
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.1723	4.679
9400	1880.0	4.1723	4.703
9538	1907.6	4.1607	4.671

Please refer to the following plots.

Cellular Band (Part 22H)

99% Occupied Bandwidth & 26 dB Bandwidth

Low Channel

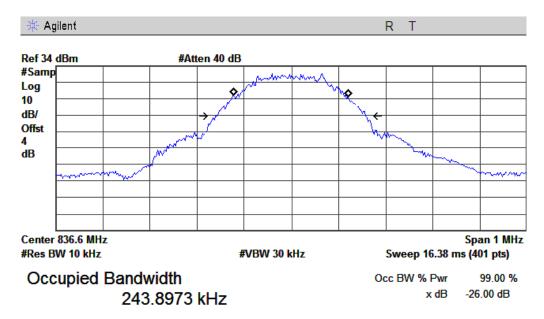


Transmit Freq Error -2.597 kHz x dB Bandwidth 320.547 kHz*



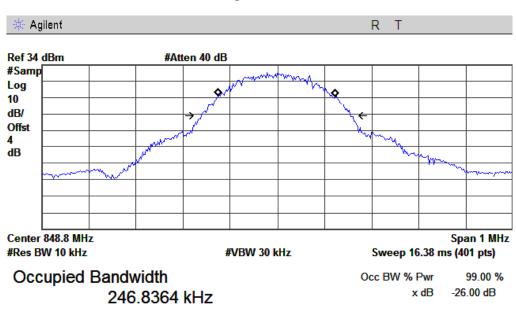
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Middle Channel



Transmit Freq Error -1.426 kHz x dB Bandwidth 318.220 kHz*

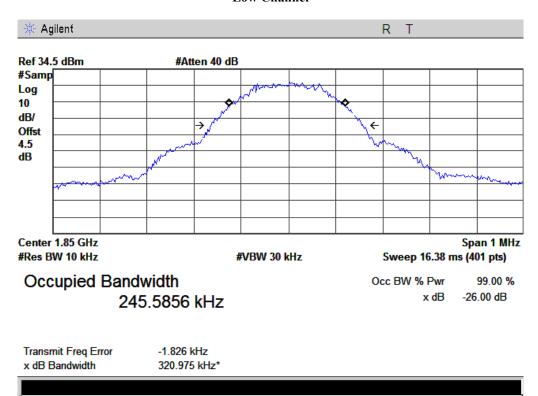
High Channel



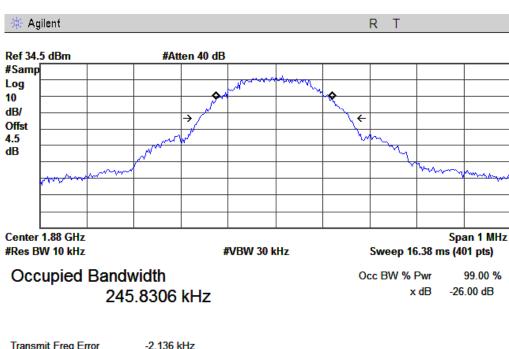
Transmit Freq Error -612.602 Hz x dB Bandwidth 314.639 kHz*

PCS Band (Part 24E)

99% Occupied Bandwidth & 26 dB Bandwidth Low Channel



Middle Channel

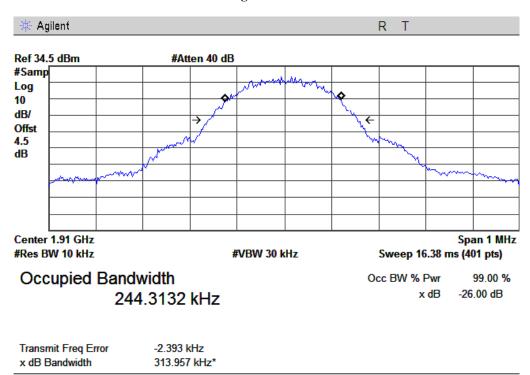


Transmit Freq Error -2.136 kHz x dB Bandwidth 317.281 kHz*



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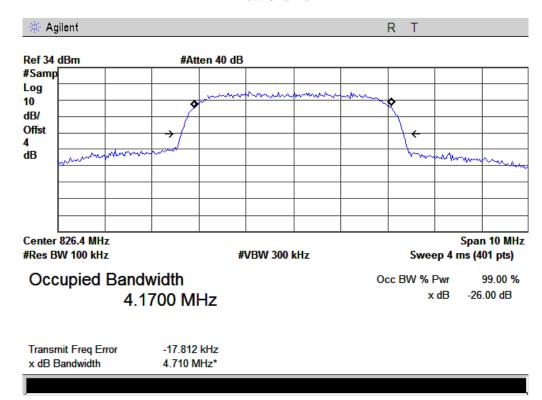
High Channel



UMTS-FDD Band V (Part 22H)

99% Occupied Bandwidth & 26 dB Bandwidth

Low Channel



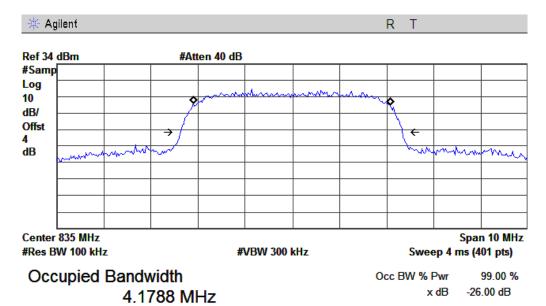
SIEMIC, INC.

Accessing global markets

Title: RF Test Report for Mobile Phone
Main Model: R27
Serial Model: N/A
To: FCC Part 22(H) & FCC Part 24(E): 2013

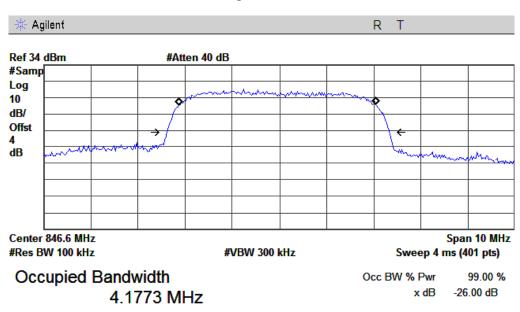
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Middle Channel



Transmit Freq Error -11.950 kHz x dB Bandwidth 4.705 MHz*

High Channel



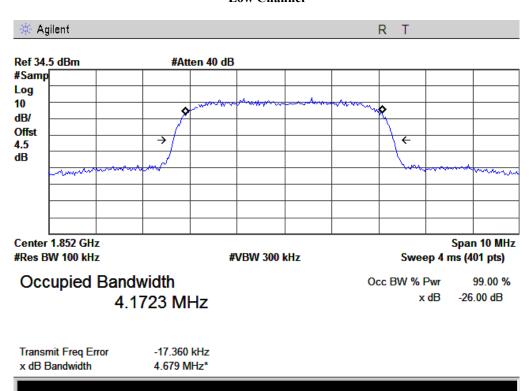
Transmit Freq Error -32.317 kHz x dB Bandwidth 4.713 MHz*

UMTS-FDD Band II (Part 24E)

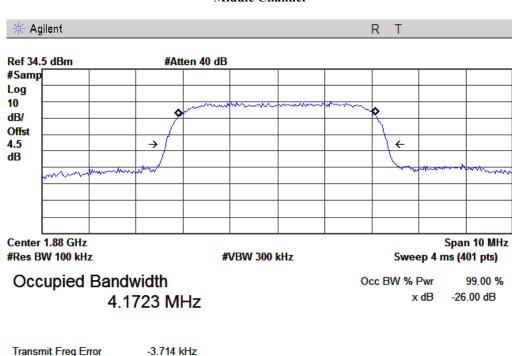
x dB Bandwidth

99% Occupied Bandwidth & 26 dB Bandwidth

Low Channel



Middle Channel

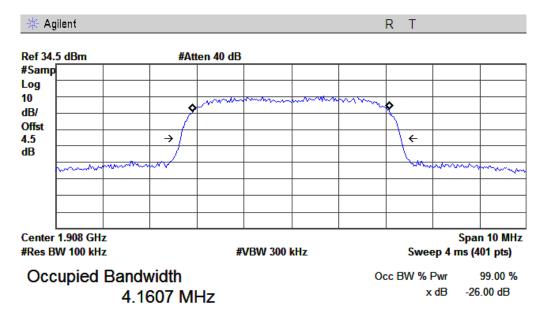


4.703 MHz*



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High Channel



Transmit Freq Error -10.223 kHz x dB Bandwidth 4.671 MHz*

<u>5.5 §2.1051, §22.917(a) & §24.238(a) - Spurious Emissions at Antenna</u> Terminals

1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The spectrum analyzer was connected to the antenna terminal.

2. Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz - 40GHz is $\pm 1.5dB$.

3. Environmental Conditions

Temperature 21°C
Relative Humidity 54%
Atmospheric Pressure 1018mbar

4. Test date: March 19, 2014 Tested By: Back Huang

Standard Requirement:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P) dB$.

Procedures:

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The Band Edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.

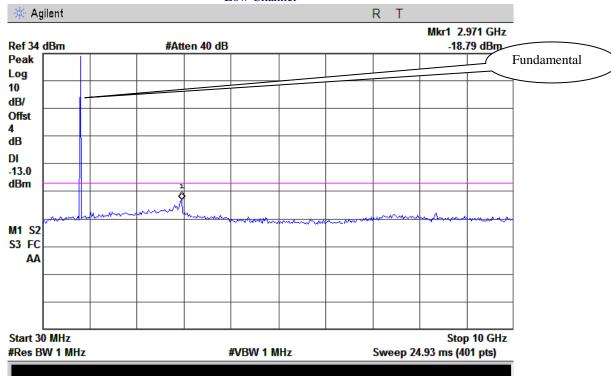
Test Result: Pass

Refer to the attached plots.

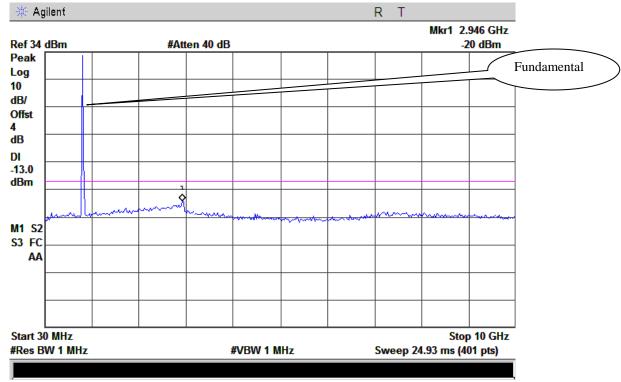
Cellular Band (Part 22H)

30MHz-10G - GSM850

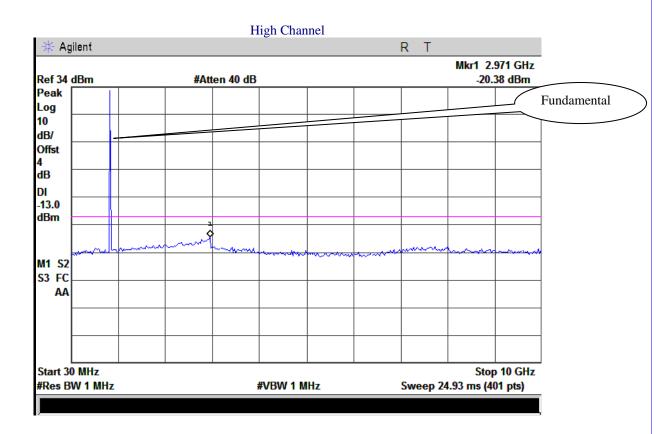
Low Channel



Middle Channel

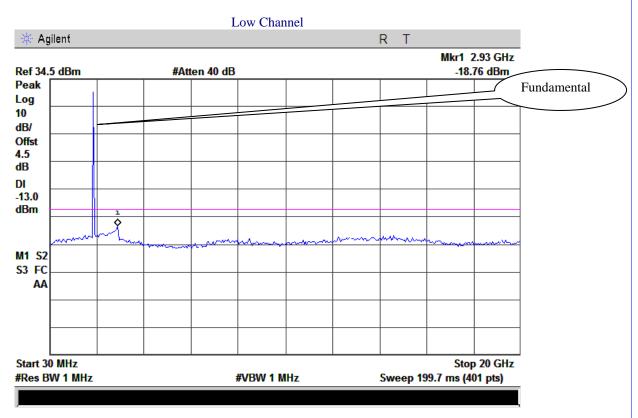


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PCS Band (Part24E)

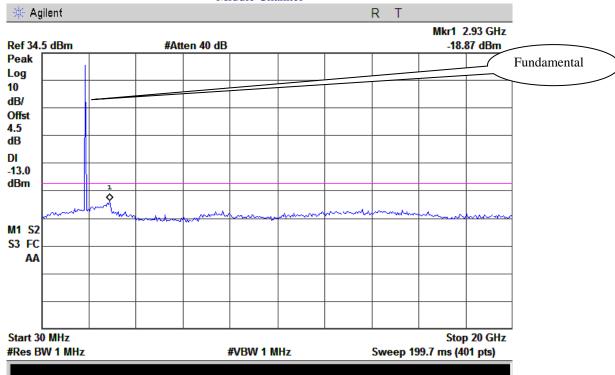
30MHz-20G-PCS1900



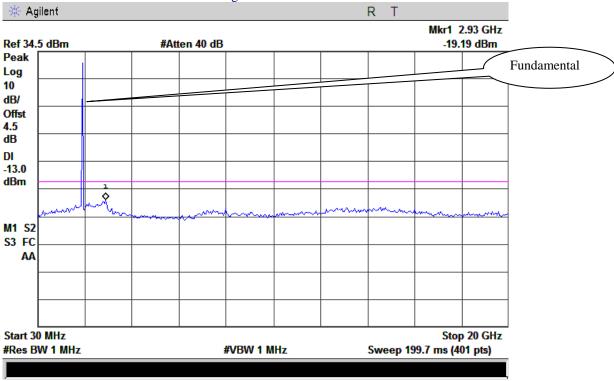


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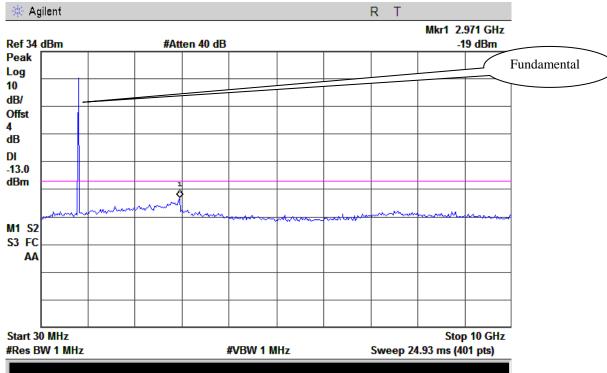




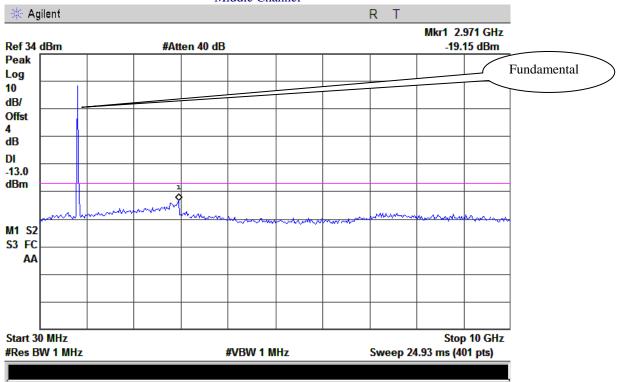
UMTS-FDD Band V (Part 22H)

30MHz-10G - WCDMA 850

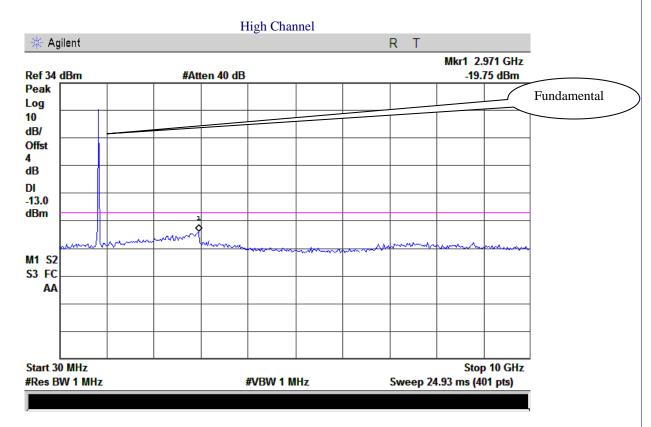




Middle Channel

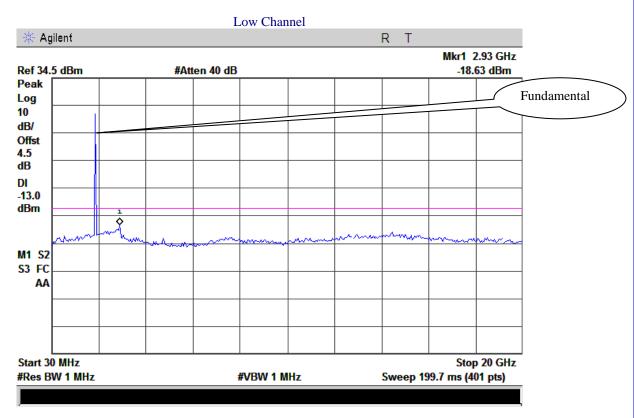


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UMTS-FDD Band II (Part24E)

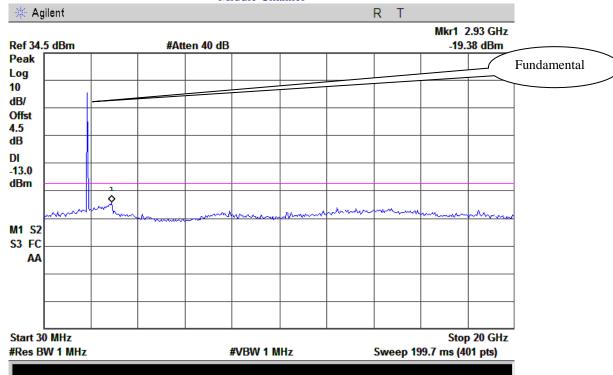
30MHz-25G-WCDMA1900



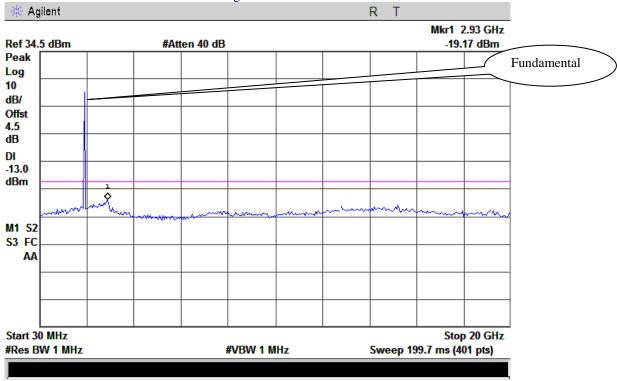


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5.6 §2.1053, §22.917 & §24.238 - Spurious Radiated Emissions

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.

 A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.

3. Radiated Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 1 GHz - 40 GH is $\pm 6.0 \text{dB}$ (for EUTs $< 0.5 \text{m} \times 0.5 \text{m} \times 0.5 \text{m}$).

4. Environmental Conditions Temperature 21 °C Relative Humidity 43%

Atmospheric Pressure 1016mbar

5. Test date: March 20, 2014 Tested By: Back Huang

Standard Requirement:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P) dB$. The spectrum is scanned from 30 MHz up to a frequency including its 10^{th} harmonic.

Procedures:

Equipment was setup in a semi-anechoic chamber. For measurements above 1 GHz an average measurement was taken with a 10Hz video bandwidth. The EUT was tested at low, mid and high with the highest output power. An emission was scan up to 10^{th} harmonic of the operating frequency.

Sample Calculation:

 $EUT \ Field \ Strength = Raw \ Amplitude \ (dB\mu V/m) - Amplifier \ Gain \ (dB) + Antenna \ Factor \ (dB) + Cable \ Loss \ (dB) + Filter \ Attenuation \ (dB, if used)$

Test Result: Pass

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Cellular Band (Part 22H)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1648.4	-35.48	V	7.95	0.78	0	-28.31	-13	-15.31
1648.4	-43.65	Н	7.95	0.78	0	-36.48	-13	-23.48
151.2	-43.46	V	2.7	0.15	0	-40.91	-13	-27.91
211.5	-44.12	V	4.1	0.15	0	-40.17	-13	-27.17

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1673.2	-33.25	V	7.95	0.78	0	-26.08	-13	-13.08
1673.2	-42.13	Н	7.95	0.78	0	-34.96	-13	-21.96
150.6	-43.59	V	2.7	0.15	0	-41.04	-13	-28.04
210.7	-45.36	V	4.1	0.15	0	-41.41	-13	-28.41

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1697.6	-30.83	V	7.95	0.78	0	-23.66	-13	-10.66
1697.6	-40.82	Н	7.95	0.78	0	-33.65	-13	-20.65
151.3	-43.43	V	2.7	0.15	0	-40.88	-13	-27.88
211.2	-44.98	V	4.1	0.15	0	-41.03	-13	-28.03

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PCS Band (Part 24E)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3700.4	-35.81	V	10.25	2.73	0	-28.29	-13	-15.29
3700.4	-40.97	Н	10.25	2.73	0	-33.45	-13	-20.45
151.1	-44.52	V	2.7	0.15	0	-41.97	-13	-28.97
210.7	-44.94	V	4.1	0.15	0	-40.99	-13	-27.99

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-35.14	V	10.25	2.73	0	-27.62	-13	-14.62
3760	-40.08	Н	10.25	2.73	0	-32.56	-13	-19.56
151.8	-44.36	V	2.7	0.15	0	-41.81	-13	-28.81
212.4	-45.13	V	4.1	0.15	0	-41.18	-13	-28.18

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3819.6	-34.55	V	10.36	2.73	0	-26.92	-13	-13.92
3819.6	-38.74	Н	10.36	2.73	0	-31.11	-13	-18.11
151.6	-44.29	V	2.7	0.15	0	-41.74	-13	-28.74
211.5	-45.04	V	4.1	0.15	0	-41.09	-13	-28.09

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UMTS-FDD Band V (Part 22H)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1652.8	-53.15	V	7.95	0.78	0	-45.98	-13	-32.98
1652.8	-58.57	Н	7.95	0.78	0	-51.4	-13	-38.4
150.6	-43.59	V	2.7	0.15	0	-41.04	-13	-28.04
211.5	-45.21	V	4.1	0.15	0	-41.26	-13	-28.26

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1670	-51.69	V	7.95	0.78	0	-44.52	-13	-31.52
1670	-56.88	Н	7.95	0.78	0	-49.71	-13	-36.71
150.8	-44.67	V	2.7	0.15	0	-42.12	-13	-29.12
211.3	-44.94	V	4.1	0.15	0	-40.99	-13	-27.99

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1693.2	-50.18	V	7.95	0.78	0	-43.01	-13	-30.01
1693.2	-55.46	Н	7.95	0.78	0	-48.29	-13	-35.29
151.5	-43.36	V	2.7	0.15	0	-40.81	-13	-27.81
211.8	-45.13	V	4.1	0.15	0	-41.18	-13	-28.18

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UMTS-FDD Band II (Part 24E)

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3704.8	-46.25	V	10.25	2.73	0	-38.73	-13	-25.73
3704.8	-50.72	Н	10.25	2.73	0	-43.2	-13	-30.2
151.2	-44.56	V	2.7	0.15	0	-42.01	-13	-29.01
209.8	-44.97	V	4.1	0.15	0	-41.02	-13	-28.02

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-44.37	V	10.25	2.73	0	-36.85	-13	-23.85
3760	-48.69	Н	10.25	2.73	0	-41.17	-13	-28.17
151.1	-44.43	V	2.7	0.15	0	-41.88	-13	-28.88
210.4	-45.16	V	4.1	0.15	0	-41.21	-13	-28.21

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3815.2	-42.09	V	10.36	2.73	0	-34.46	-13	-21.46
3815.2	-48.04	Н	10.36	2.73	0	-40.41	-13	-27.41
149.6	-44.54	V	2.7	0.15	0	-41.99	-13	-28.99
212.1	-45.09	V	4.1	0.15	0	-41.14	-13	-28.14

5.7 §22.917(a) & §24.238(a) - Band Edge

1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The spectrum analyzer was connected to the antenna terminal.

2. Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz - 40GHz is $\pm 1.5dB$.

3. Environmental Conditions Temperature 21°C Relative Humidity 54%

Atmospheric Pressure 1018mbar

4. Test date: March 19, 2014 Tested By: Back Huang

Standard Requirement:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P) dB$.

Procedures:

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The Band Edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.

Test Result: Pass

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Refer to the attached plots.

Cellular Band (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9950	-13.49	-13
849.0175	-13.26	-13

PCS Band (Part 24E)

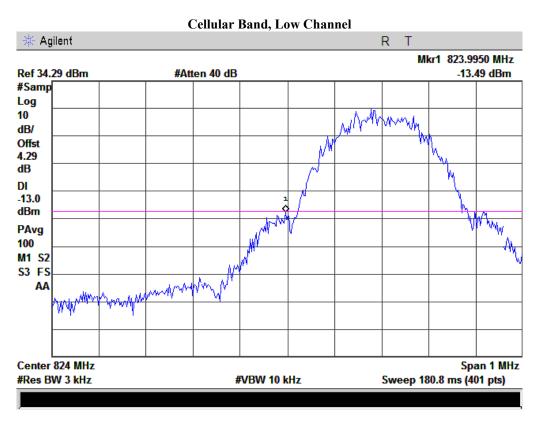
Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9950	-14.41	-13
1910.0000	-15.66	-13

UMTS-FDD Band V (Part 22H)

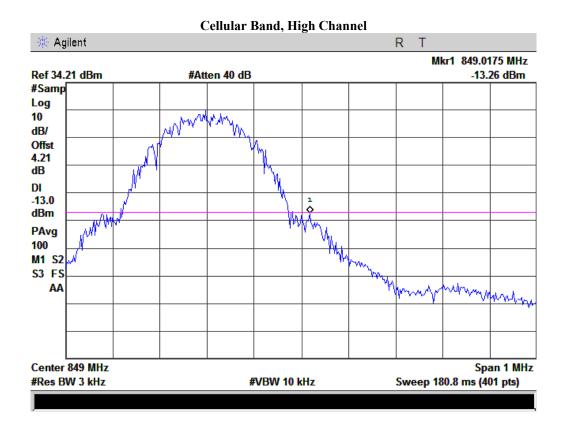
Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.975	-14.78	-13
849.000	-16.06	-13

UMTS-FDD Band II (Part 24E)

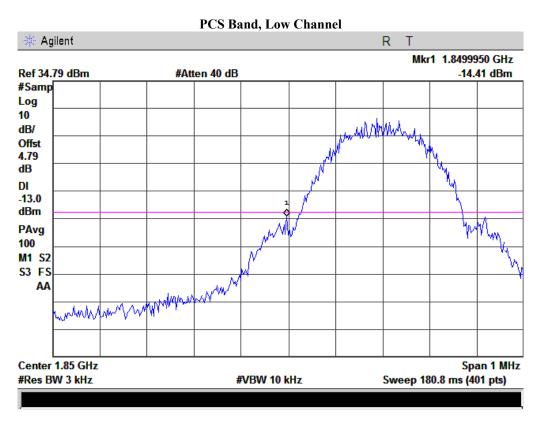
Frequency (MHz)	Emission (dBm)	Limit (dBm)
1850.000	-15.74	-13
1910.000	-19.70	-13



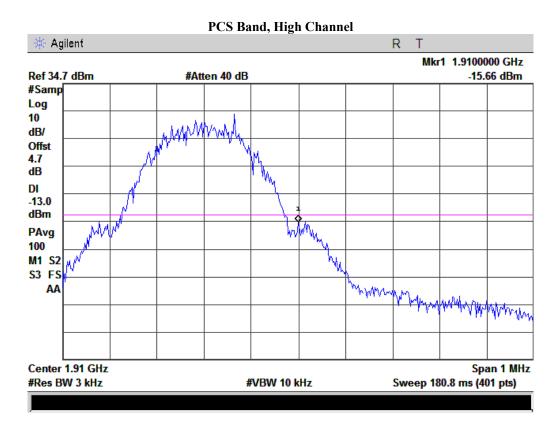
Note: Offset=Cable loss (4.0) + 10log (3.21/3)=4.0+0.29=4.29 dB



Note: Offset=Cable loss $(4.0) + 10\log (3.15/3)=4.0+0.21=4.21 \text{ dB}$



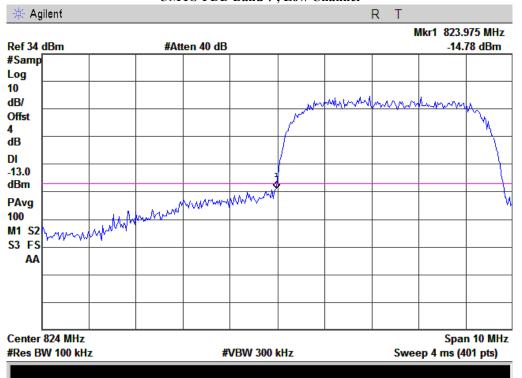
Note: Offset=Cable loss $(4.5) + 10\log (3.21/3) = 4.5 + 0.29 = 4.79 \text{ dB}$



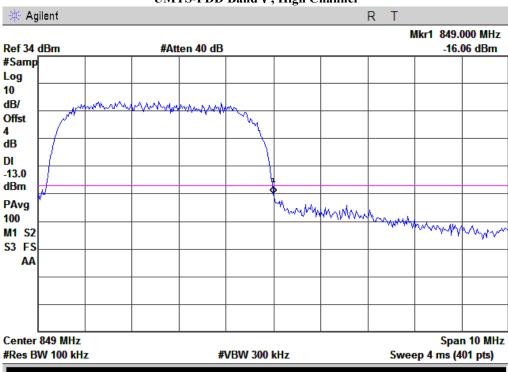
Note: Offset=Cable loss (4.5) + 10log (3.14/3)=4.5+0.2=4.7 dB

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UMTS-FDD Band V, Low Channel



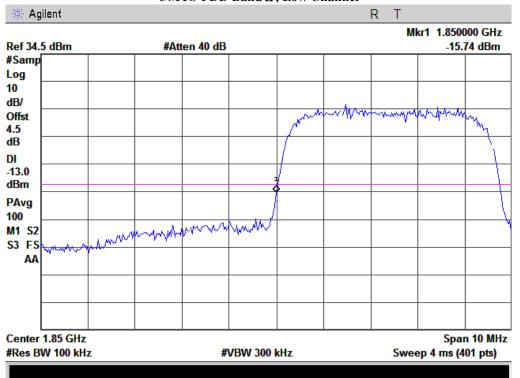
UMTS-FDD Band V, High Channel



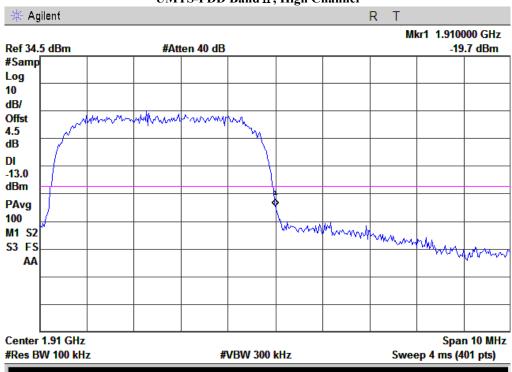


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UMTS-FDD Band II, Low Channel



UMTS-FDD Band II, High Channel



5.8 §2.1055, §22.355 & §24.235 - Frequency Stability

1. Environmental Conditions Temperature 20°C Relative Humidity 46%

Atmospheric Pressure 1016mbar

2. Test date: March 18, 2014 Tested By: Back Huang

Standard Requirement:

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤3 watts (ppm)	Mobile ≤ 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized frequency block.

Procedures:

A communication link was established between EUT and base station. The frequency error was monitored and measured by base station under variation of ambient temperature and variation of primary supply voltage.

Limit: The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

Test Results: Pass

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Frequency Stability versus Temperature: The Frequency tolerance of the carrier signal shall be maintained within 2.5ppm of the operating frequency over a temperature variation of -10°C to +55°C at normal supply voltage.

Cellular Band (Part 22H)

Middle Channel, f _o = 836.6 MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10		18	0.0215	2.5
0		-16	-0.0191	2.5
10	3.7	-6	-0.0072	2.5
20		-3	-0.0036	2.5
30		-16	-0.0191	2.5
40		8	0.0096	2.5
50		15	0.0179	2.5
55		-6	-0.0072	2.5
25	25 4.2 3.5	13	0.0155	2.5
23		8	0.0096	2.5

PCS Band (Part 24E)

	Middle Channel, f _o = 1880 MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		-5	-0.0027	2.5	
0		-25	-0.0133	2.5	
10	3.7	-15	-0.0080	2.5	
20		17	0.0090	2.5	
30		32	0.0170	2.5	
40		39	0.0207	2.5	
50		-22	-0.0117	2.5	
55		-8	-0.0043	2.5	
25	4.2 3.5	27	0.0144	2.5	
23		19	0.0101	2.5	

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UMTS-FDD Band V (Part 22H)

	Middle Channel, f _o = 835 MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		13	0.0156	2.5	
0		25	0.0299	2.5	
10	3.7	16	0.0192	2.5	
20		-2	-0.0024	2.5	
30		-32	-0.0383	2.5	
40		-18	-0.0216	2.5	
50		-44	-0.0527	2.5	
55		-36	-0.0431	2.5	
25	4.2	8	0.0096	2.5	
25	3.5	18	0.0216	2.5	

UMTS-FDD Band II (Part 24E)

	Middle Channel, f _o = 1880 MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		52	0.0277	2.5	
0		-24	-0.0128	2.5	
10	3.7	-11	-0.0059	2.5	
20		3	0.0016	2.5	
30		35	0.0186	2.5	
40		43	0.0229	2.5	
50		-33	-0.0176	2.5	
55		-2	-0.0011	2.5	
25	4.2	-27	-0.0144	2.5	
25	3.5	-13	-0.0069	2.5	

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Annex A. TEST INSTRUMENT & METHOD

Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

Instrument	Model	Serial #	Calibration Date	Calibration Due Date
RF conducted test				
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	MY45108319	09/17/2013	09/16/2014
Power Splitter	1#	1#	09/02/2013	09/01/2014
Universal Radio Communication Tester	CMU200	121393	09/17/2013	09/16/2014
Temperature/Humidity Chamber	UHL-270	001	10/22/2013	10/21/2014
DC Power Supply	E3640A	MY40004013	09/17/2013	09/16/2014
Radiated Emissions				
EMI test receiver	ESL6	100262	11/23/2013	11/22/2014
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/02/2013	09/01/2014
Microwave Preamplifier (0.5~18GHz)	PAM-118	443008	09/02/2013	09/01/2014
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/23/2013	09/22/2014
Bilog Antenna (30MHz~2GHz)	JB1	A112017	09/23/2013	09/22/2014
Double Ridge Horn Antenna	AH-118	71259	11/20/2013	11/19/2014
(1 ~18GHz)				
Double Ridge Horn Antenna	AH-118	71283	11/20/2013	11/19/2014
(1 ~18GHz)				
SYNTHESIZED SIGNAL GENERATOR	8665B	3744A01293	09/17/2013	09/16/2014
Tunable Notch Filter	3NF- 800/1000-S	AA4	09/02/2013	09/01/2014
Tunable Notch Filter	3NF- 1000/2000-S	AM 4	09/02/2013	09/01/2014

Annex A. ii. RADIATED EMISSIONS TEST DESCRIPTION

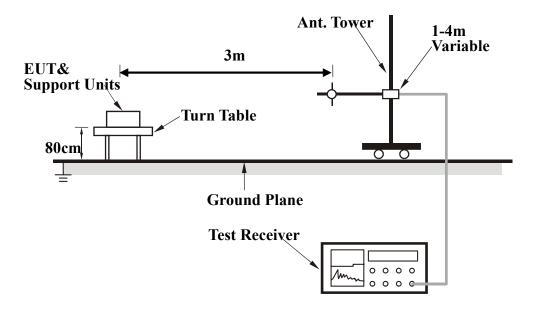
EUT Characterisation

EUT characterisation, over the frequency range from 30MHz to 1GHz (for FCC tests, until the 10^{th} harmonic for operating frequencies ≥ 108 MHz),, was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

The EUT was placed in the chamber, at a height of about 0.8m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer /receiver with the appropriate broadband antenna placed 3m or 10m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually, changing the antenna polarisation and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred, clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS) or EMC 3m chamber.

Test Set-up

- 1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-metallic table.
- 2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
- 3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.



Test Method

The following procedure was performed to determine the maximum emission axis of EUT:

- 1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
- 2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
- 3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

Final Radiated Emission Measurement

- 1. Setup the configuration according to figure 1. Turn on EUT and make sure that it is in normal function.
- 2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site or EMC 10m chamber. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
- 3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
- 4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0 ° to 360 ° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading.
- 5. Repeat step 4 until all frequencies need to be measured were complete.
- 6. Repeat step 5 with search antenna in vertical polarized orientations.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band	Function	Resolution bandwidth	Video Bandwidth
(MHz)			
30 to 1000	Peak	100 kHz	100 kHz
Above 1000	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	10 Hz

Description of Radiated Emission Program

This EMC Measurement software run LabView automation software and offers a common user interface for electromagnetic interference (EMI) measurements. This software is a modern and powerful tool for controlling and monitoring EMI test receivers and EMC test systems. It guarantees reliable collection, evaluation, and documentation of measurement results. Basically, this program will run a pre-scan measurement before it proceeds with the final measurement. The pre-scan routine will run the scan on four different antenna heights, 2 antenna polarity, and 360 degrees table rotation. For example, the program was set to run 30 MHz to 1 GHz scan; the program will first start from a meter antenna height and divide the 30 MHz to 1 GHz into 10 separate parts of maximum hold sweeps. Each parts of maximum hold sweep, the program will collect the data from 0 degree to 360 degrees table rotation. After the program complete the 1m scan, the antenna continues to rise to 2m and continue the scan. The step will repeated for all specified antenna height and polarity. This program will perform the Quasi Peak measurement after the signal maximization process and pre-scan routine. The final measurement will be base on the pre-scan data reduction result.

Sample Calculation Example

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

Peak = Reading + Corrected Factor

where

Corr. Factor = Antenna Factor + Cable Factor - Amplifier Gain (if any)
And the average value is

Average = Peak Value + Duty Factor or Set RBW = 1MHz, VBW = 10Hz.

Note

If the measured frequencies are fall in the restricted frequency band, the limit employed must be quasi peak value when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function.



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Annex B. EUT AND TEST SETUP PHOTOGRAPHS

Annex B.i. Photograph 1: EUT External Photo



Whole Package - Top View

SIEMIC, INC.

Accessing global markets

Title: RF Test Report for Mobile Phone
Main Model: R27
Serial Model: N/A
To: FCC Part 22(H) & FCC Part 24(E): 2013

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EUT - Front View

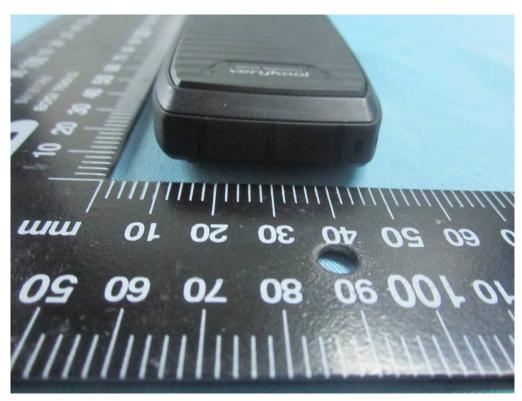


EUT - Rear View

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EUT - Top View



EUT - Bottom View

SIEMIC, INC.

Accessing global markets

Title: RF Test Report for Mobile Phone
Main Model: R27
Serial Model: N/A
To: FCC Part 22(H) & FCC Part 24(E): 2013

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EUT - Left View



EUT - Right View



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Annex B.ii. Photograph 2: EUT Internal Photo



Cover Off - Top View



Cover Off - Front Housing View

SIEMIC, INC.

Accessing global markets

RF Test Report for Mobile Phone

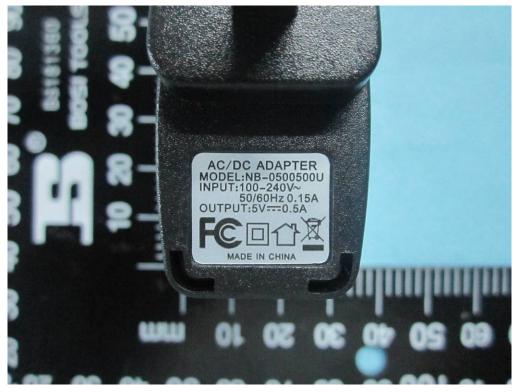
Main Model: R27
Serial Model: N/A

Fo: FCC Part 22(H) & FCC Part 24(E): 2013

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Cover Off - Rear Housing View



Adapter View

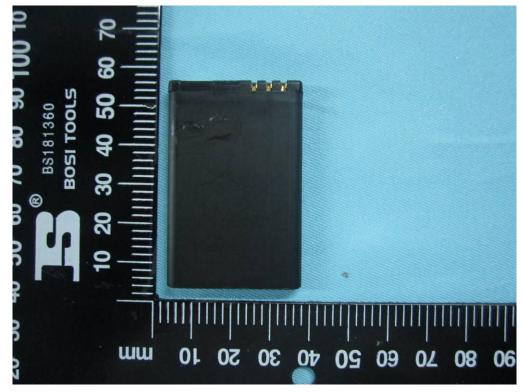
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Battery - Top View



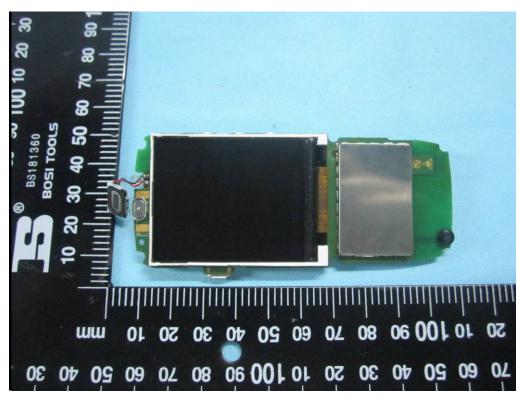
Battery - Bottom View

SIEMIC, INC.

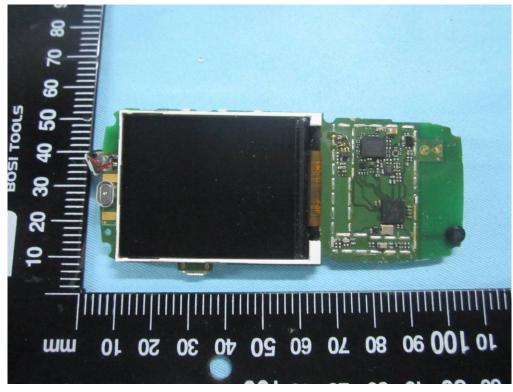
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Mainboard - Top View



Mainboard Without Shielding - Top View

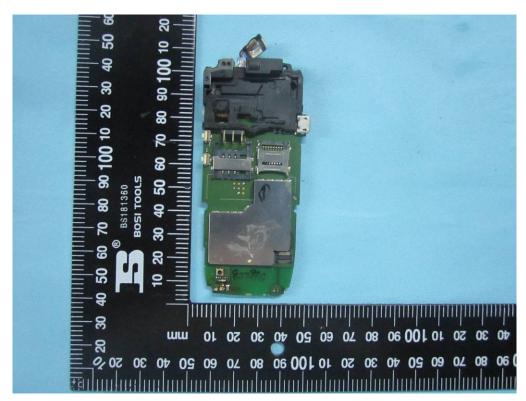
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Mainboard Uncover - Top View

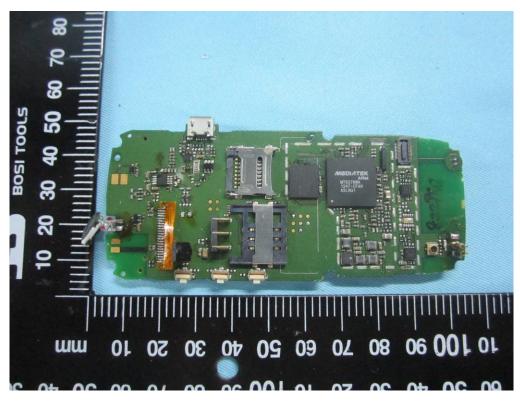


Mainboard - Bottom View

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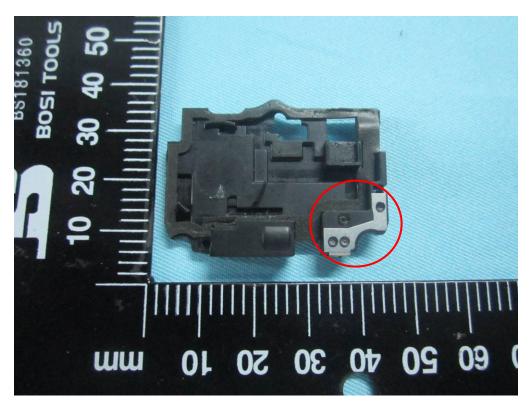


Mainboard Without Shielding - Bottom View



GSM / UMTS - Antenna View

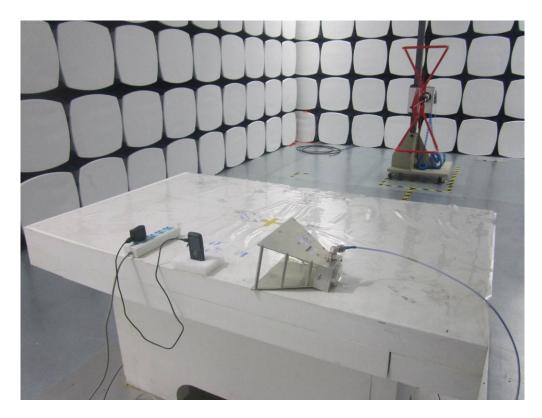
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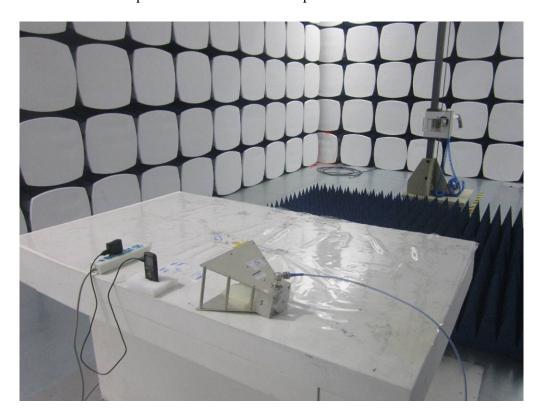
Bluetooth - Antenna View

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Annex B.iii. Photograph 3: Test Setup Photo



Radiated Spurious Emissions Test Setup Below 1GHz - Front View



Radiated Spurious Emissions Test Setup Above 1GHz -Front View

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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

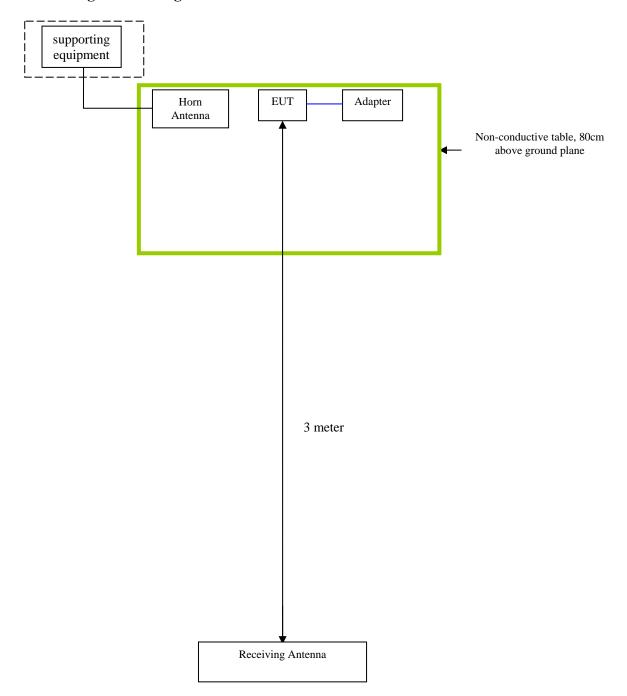
EUT TEST CONDITIONS

Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Manufacturer	Equipment Description (Including Brand Name)	Model	Calibration Date	Calibration Due Date
N/A	N/A	N/A	N/A	N/A

Block Configuration Diagram for Radiated Emissions



Annex C.ii. **EUT OPERATING CONDITIONS**

The following is the description of how the EUT is exercised during testing.

The rollowing is the description of new the Zo I is cheesed during essential.		
Test	Description Of Operation	
Emissions Testing	The EUT was communicating with base station and set to work at maximum output power.	
Others Testing	The EUT was communicating with base station and set to work at maximum output power.	

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Annex D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST

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Please see attachment



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Annex E. DECLARATION OF SIMILARITY

NONE