DDM Brands LLC

3G MOBILE PHONE

Main Model: AC4E Serial Model: ANDY AC4E, AC4EW

December 05, 2013
Report No.: 13070549-FCC-R1
(This report supersedes NONE)



Modifications made to the product: None

This Test Report is Issued Under the Authority of:							
Fruk Huong	Alex. Lin						
Back Huang Compliance Engineer	Alex Liu Technical Manager						

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





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Laboratory Introduction

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Country/Region	Scope			
USA	EMC, RF/Wireless, Telecom			
Canada	EMC, RF/Wireless, Telecom			
Taiwan	EMC, RF, Telecom, Safety			
Hong Kong	RF/Wireless ,Telecom			
Australia	EMC, RF, Telecom, Safety			
Korea	EMI, EMS, RF, Telecom, Safety			
Japan	EMI, RF/Wireless, Telecom			
Singapore	EMC, RF, Telecom			
Europe	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 DDM Brands LLC, 3G MOBILE PHONE and model: AC4E against the current Stipulated Standards. The 3G MOBILE PHONE has demonstrated compliance with the FCC Part 22(H) & FCC Part 24(E): 2013.

EUT Information

EUT

Description : 3G MOBILE PHONE

Main Model : AC4E

Serial Model ANDY AC4E, AC4EW (the Difference Between Main Model and Serial

Model is Only Colour of the Appearance)

UMTS-FDD Band V/GSM850: -3 dBi

Antenna Gain : UMTS-FDD Band II/PCS1900: 0 dBi

Bluetooth/WIFI: 0 dBi

GPS: -1 dBi

Battery:

Model: YB117

Capacity: 1550 mAh 5.74 wh Nominal Voltage: 3.7 V

Input Power : Charging Voltage Limit: 4.2 V

Adapter: Model: YW12

Input: AC 100-240V 50/60Hz 150 mA

Output: DC 5.0 V 550 mA

Maximum GSM850: 32.40 dBm PCS1900: 29.57 dBm

AV Power to UMTS-FDD Band V : 22.44 dBm

Antenna UMTS-FDD Band II : 21.69 dBm

GSM850: 30.76 dBm / ERP PCS1900:26.85 dBm / EIRP

Radiated : UMTS-FDD Band V : 20.38dBm / ERP UMTS-FDD Band II : 19.28 dBm / EIRP

UNITS-FDD Band II: 19.28 ubin / EIRF

Classification

Maximum

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

Test Standard



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	2. TECHNICAL DETAILS
Purpose	Compliance testing of 3G MOBILE PHONE with stipulated standard
Applicant / Client	DDM Brands LLC 1616 NW, 84TH Ave. Miami, Florida, U.S.A 33126
Manufacturer	DDM Brands LLC A-401, HengYu Center, NanShan, ShenZhen, China518054
Laboratory performing the tests	SIEMIC (Shenzhen-China) Laboratories Zone A, Floor 1, Building 2, Wan Ye Long Technology Park, South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong, China Tel: +86-0755-2601 4629 / 2601 4953 Fax: +86-0755-2601 4953-810 Email: China@siemic.com.cn
Test report reference number	13070549-FCC-R1
Date EUT received	November 14, 2013
Standard applied	FCC Part 22(H) & FCC Part 24(E): 2013
Dates of test	December 02, 2013 - December 04, 2013
No of Units	#1
Equipment Category	PCE
Trade Name	YEZZ
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 802.11b/g/n(20): 2412-2462 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 802.11b/g/n(20): 11CH
Modulation	GSM / GPRS: GMSK UMTS-FDD: QPSK 802.11b/g/n(20): DSSS/OFDM Bluetooth: GFSK& π/4DQPSK&8DPSK
GPRS Multi-slot class	8/10/12
FCC ID	A4JANDYA4E



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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: 13070549-FCC-H

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

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 $\pm 1.5dB$.

Environmental Conditions 25°C 3. **Temperature**

Relative Humidity 46% 1018mbar Atmospheric Pressure

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Test date: December 02, 2013 4. 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:

- The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.
- 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.
- 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



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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	32.40	32.31	32.37	32±1	29.52	29.54	29.57	30±1
GPRS Multi-Slot Class 8 (1 uplink),GMSK	32.33	32.21	32.25	32±1	29.48	29.50	29.52	30±1
GPRS Multi-Slot Class 10 (2 uplink),GMSK	31.44	31.33	31.37	30±1	28.64	28.65	28.72	28±1
GPRS Multi-Slot Class 12 (4 uplink),GMSK	29.11	29.03	29.08	29±1	26.08	26.11	26.21	26±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.



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UMTS Mode:

UMTS-FDD Band V

Band/ Time Slot						
configuration	Channel	Frequency	Average power (dBm)			
RMC	4132	826.4	22.41			
12.2kbps	4175	835.0	22.44			
12.2KUps	4233	846.6	22.33			
HCDDA	4132	826.4	21.39			
HSDPA Subtract1	4175	835.0	21.45			
Subtest1	4233	846.6	21.38			
HCDDA	4132	826.4	20.96			
HSDPA Subtest2	4175	835.0	20.98			
Subtest2	4233	846.6	20.95			
HCDDA	4132	826.4	20.95			
HSDPA Subtest3	4175	835.0	21.02			
	4233	846.6	20.95			
Habby	4132	826.4	20.94			
HSDPA Subtest4	4175	835.0	21.01			
	4233	846.6	20.99			
HCHDA	4132	826.4	21.00			
HSUPA Subtest1	4175	835.0	21.04			
Subtest1	4233	846.6	20.97			
HCHDA	4132	826.4	20.01			
HSUPA Subtest2	4175	835.0	20.04			
Subtest2	4233	846.6	19.99			
HCHDA	4132	826.4	20.52			
HSUPA Subtest3	4175	835.0	20.55			
Sublests	4233	846.6	20.49			
HSUPA	4132	826.4	20.01			
Subtest4	4175	835.0	20.02			
Sublest4	4233	846.6	19.95			
HCHDA	4132	826.4	21.49			
HSUPA Subtest5	4175	835.0	21.51			
Sublests	4233	846.6	21.49			

UMTS-FDD Band II

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	CIVITS I D	D Dana II	
Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)
DMC	9262	1852.4	21.69
RMC 12.2kbps	9400	1880.0	21.46
	9538	1907.6	21.67
HCDDA	9262	1852.4	20.61
HSDPA Subtest1	9400	1880.0	20.51
Subtest1	9538	1907.6	20.75
HCDDA	9262	1852.4	20.15
HSDPA Subtest2	9400	1880.0	20.06
Subtest2	9538	1907.6	20.31
HCDDA	9262	1852.4	20.18
HSDPA Subtest3	9400	1880.0	20.11
	9538	1907.6	20.37
HSDPA Subtest4	9262	1852.4	20.16
	9400	1880.0	20.07
Subtest4	9538	1907.6	20.32
HSUPA	9262	1852.4	20.09
Subtest1	9400	1880.0	20.11
Subtest1	9538	1907.6	20.42
HSUPA	9262	1852.4	19.59
Subtest2	9400	1880.0	19.42
Subtest2	9538	1907.6	19.75
HSUPA	9262	1852.4	20.10
Subtest3	9400	1880.0	19.91
Subtests	9538	1907.6	20.20
HSUPA	9262	1852.4	19.53
Subtest4	9400	1880.0	19.35
Subicsi4	9538	1907.6	19.65
HSUPA	9262	1852.4	21.11
Subtest5	9400	1880.0	20.91
Buotesta	9538	1907.6	21.18



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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	23.64	V	6.8	0.53	29.91	38.45
824.2	18.02	Н	6.8	0.53	24.29	38.45
836.6	23.36	V	6.8	0.53	29.63	38.45
836.6	17.76	Н	6.8	0.53	24.03	38.45
848.8	24.39	V	6.9	0.53	30.76	38.45
848.8	18.68	Н	6.9	0.53	25.05	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	18.97	V	7.88	0.85	26	33
1850.2	19.81	Н	7.88	0.85	26.84	33
1880	19.01	V	7.88	0.85	26.04	33
1880	19.82	Н	7.88	0.85	26.85	33
1909.8	18.88	V	7.86	0.85	25.89	33
1909.8	19.66	Н	7.86	0.85	26.67	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	14.11	V	6.8	0.53	20.38	38.45
826.4	6.95	Н	6.8	0.53	13.22	38.45
835	13.92	V	6.8	0.53	20.19	38.45
835	6.82	Н	6.8	0.53	13.09	38.45
846.6	13.74	V	6.9	0.53	20.11	38.45
846.6	6.59	Н	6.9	0.53	12.96	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	11.16	V	7.88	0.85	18.19	33
1852.4	12.18	Н	7.88	0.85	19.21	33
1880	11.07	V	7.88	0.85	18.1	33
1880	11.96	Н	7.88	0.85	18.99	33
1907.6	11.23	V	7.86	0.85	18.24	33
1907.6	12.27	Н	7.86	0.85	19.28	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.

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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 24°C Relative Humidity 44%

Atmospheric Pressure 1017mbar

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 $\pm 1.5dB$.

Test date: December 03, 2013 Tested By: Back Huang

Procedures:

4.

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	247.0862	320.929		
190	836.6	244.3305	321.152		
251	848.8	244.4205	321.994		

PCS Band (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	244.3519	317.660
661	1880.0	246.9737	319.447
810	1909.8	246.3429	321.309

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UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)		
4132	826.4	4.1472	4.696		
4175	835.0	4.1451	4.701		
4233	846.6	4.1513	4.704		

UMTS-FDD Band II (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.1657	4.724
9400	1880.0	4.1625	4.718
9538	1907.6	4.1709	4.722

Please refer to the following plots.

Transmit Freq Error

x dB Bandwidth

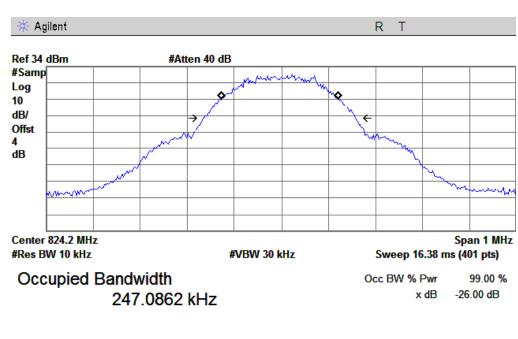
-2.827 kHz

320.929 kHz*

Cellular Band (Part 22H)

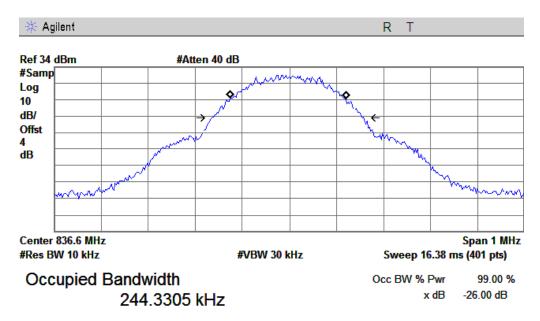
99% Occupied Bandwidth & 26 dB Bandwidth

Low Channel



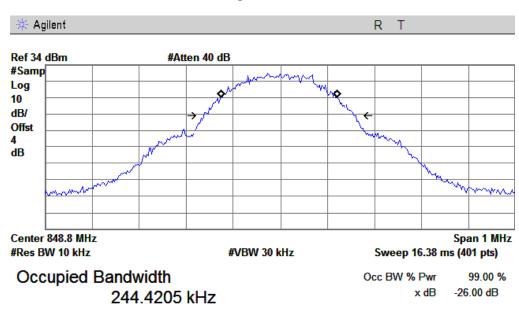
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Middle Channel



Transmit Freq Error -2.966 kHz x dB Bandwidth 321.152 kHz*

High Channel



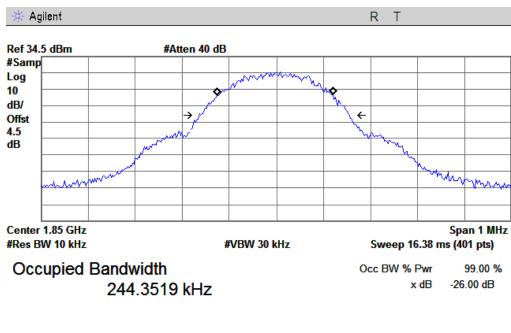
Transmit Freq Error -3.328 kHz x dB Bandwidth 321.994 kHz*



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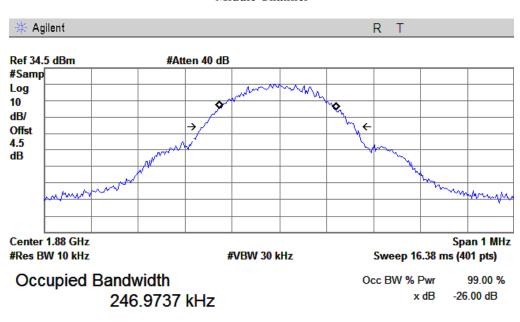
PCS Band (Part 24E)

99% Occupied Bandwidth & 26 dB Bandwidth Low Channel



Transmit Freq Error -2.459 kHz x dB Bandwidth 317.660 kHz*

Middle Channel



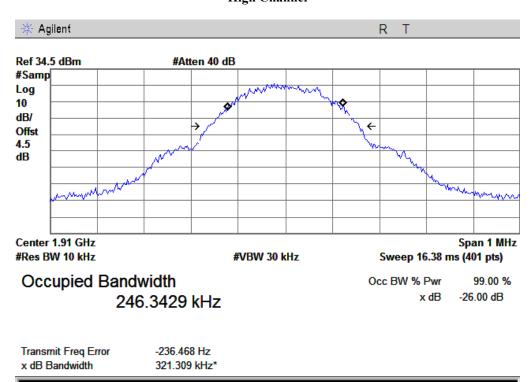
Transmit Freq Error -3.012 kHz x dB Bandwidth 319.447 kHz*

High Channel

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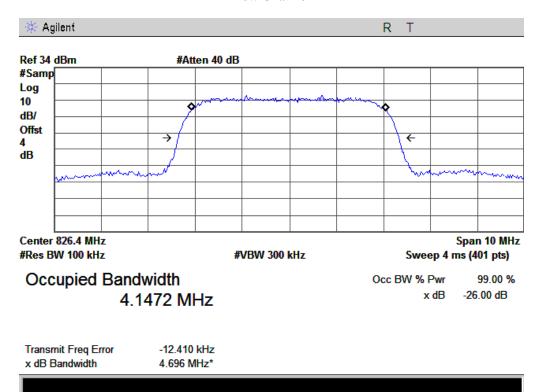
Page:



UMTS-FDD Band V (Part 22H)

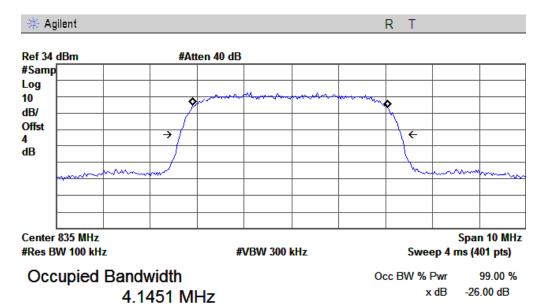
99% Occupied Bandwidth & 26 dB Bandwidth

Low Channel



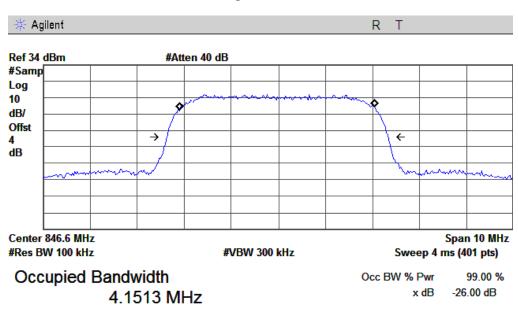
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Middle Channel



Transmit Freq Error -25.632 kHz x dB Bandwidth 4.701 MHz*

High Channel



Transmit Freq Error -19.751 kHz x dB Bandwidth 4.704 MHz*

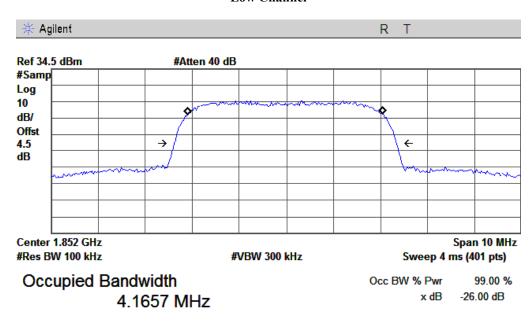


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UMTS-FDD Band II (Part 24E)

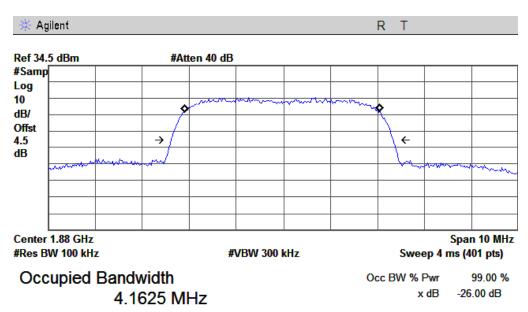
99% Occupied Bandwidth & 26 dB Bandwidth

Low Channel



Transmit Freq Error -21.378 kHz x dB Bandwidth 4.724 MHz*

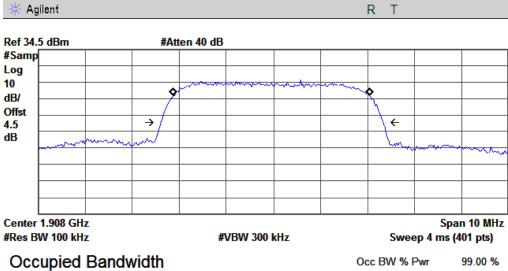
Middle Channel



Transmit Freq Error -30.250 kHz x dB Bandwidth 4.718 MHz*

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High Channel



4.1709 MHz

Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error -33.248 kHz x dB Bandwidth 4.722 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 24°C
Relative Humidity 44%
Atmospheric Pressure 1017mbar

4. Test date : December 03, 2013

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.



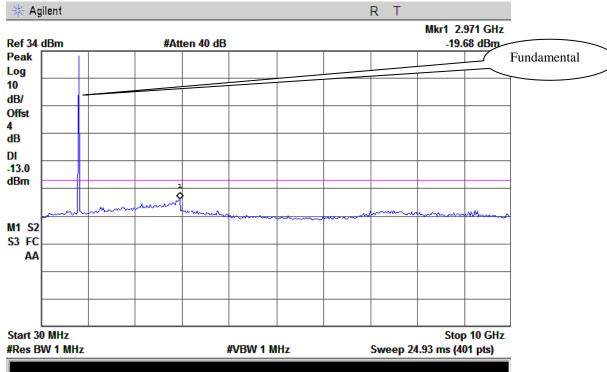
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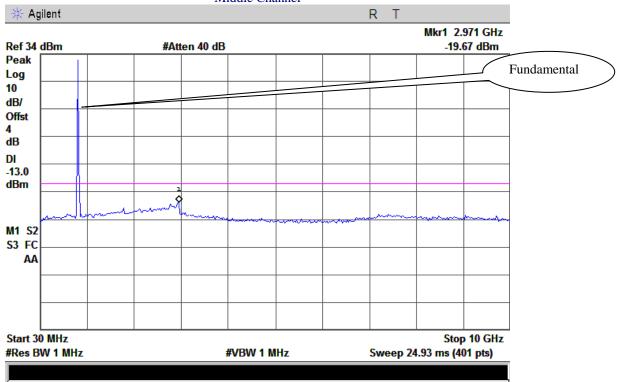
Cellular Band (Part 22H)

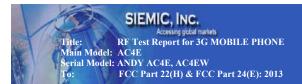
30MHz -10G - GSM850



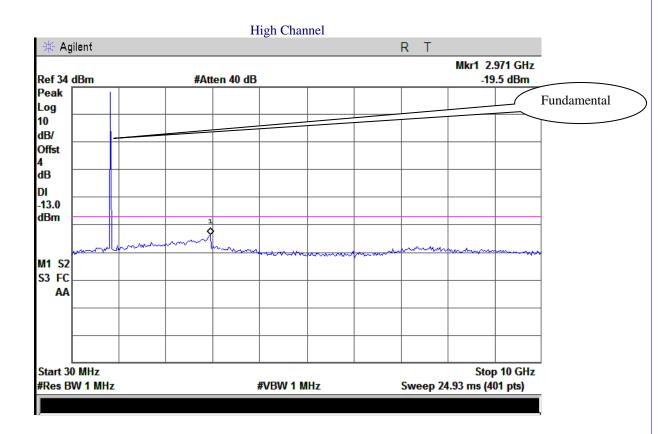






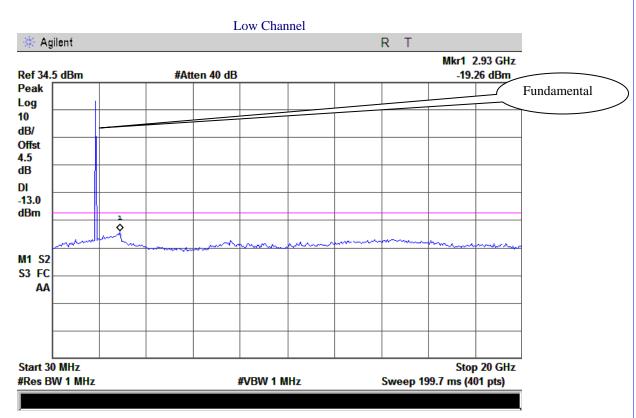


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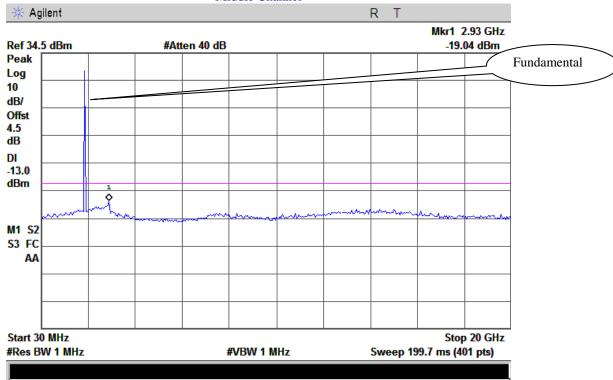
PCS Band (Part24E)

30MHz -20G - PCS1900

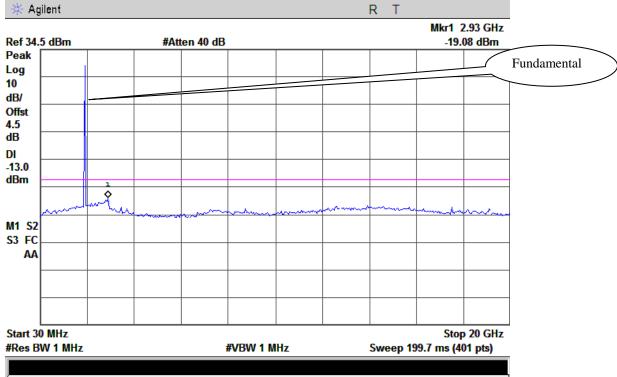


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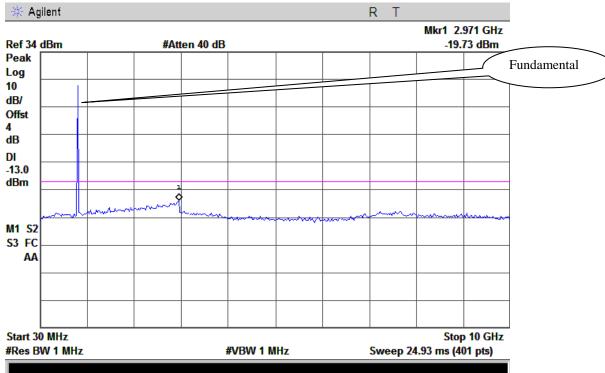


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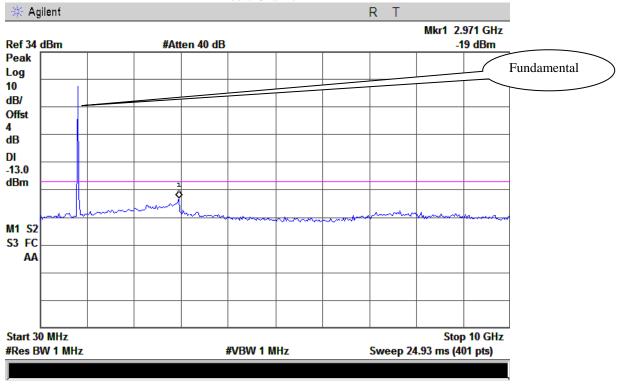
UMTS-FDD Band V (Part 22H)

30MHz -10G - WCDMA 850

Low Channel

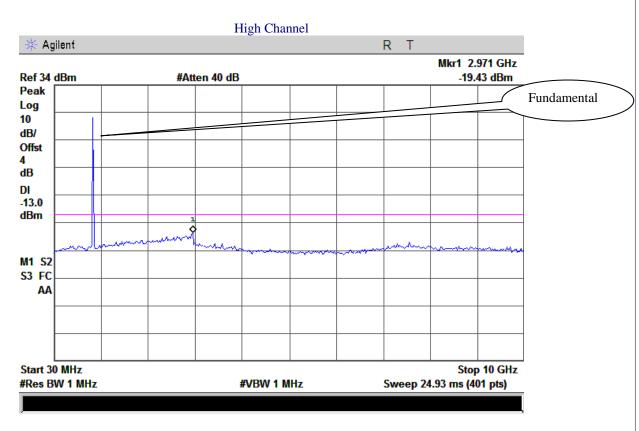


Middle Channel



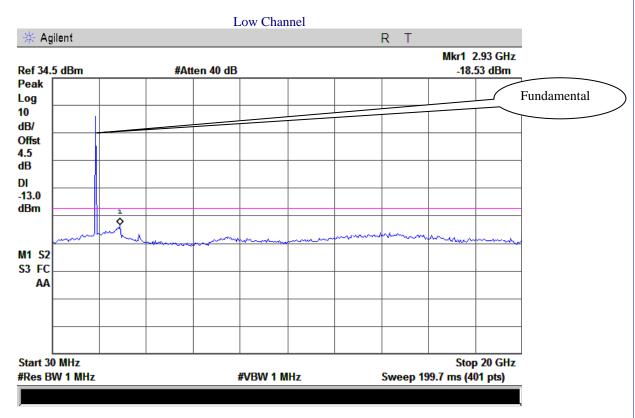


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UMTS-FDD Band II (Part24E)

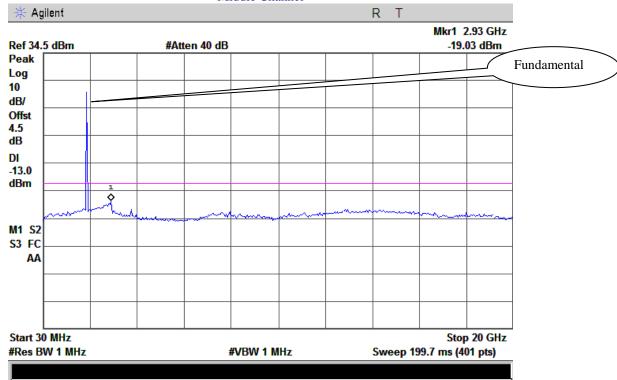
30MHz -25G - WCDMA1900



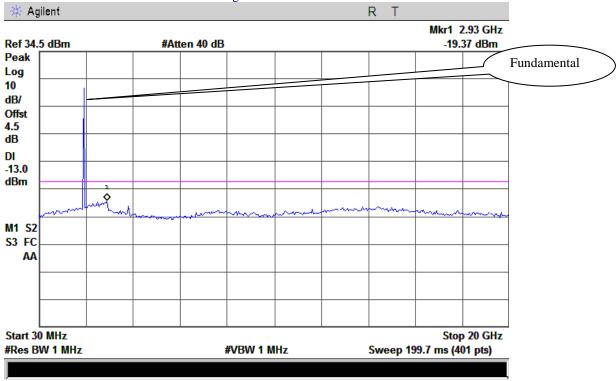


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5.6 §2.1053, §22.917 & §24.238 - Spurious Radiated Emissions

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 m X 0.5 m X 0.5 m).

4. Environmental Conditions Temperature 24 °C

Relative Humidity 43

Atmospheric Pressure 1018mbar

5. Test date: December 04, 2013 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	-45.32	V	7.95	0.78	0	-38.15	-13	-25.15
1648.4	-47.24	Н	7.95	0.78	0	-40.07	-13	-27.07
146.4	-50.35	V	2.7	0.15	0	-47.8	-13	-34.8
201.3	-52.16	V	4.1	0.15	0	-48.21	-13	-35.21

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	-45.48	V	7.95	0.78	0	-38.31	-13	-25.31
1673.2	-47.16	Н	7.95	0.78	0	-39.99	-13	-26.99
146.6	-50.67	V	2.7	0.15	0	-48.12	-13	-35.12
200.4	-51.92	V	4.1	0.15	0	-47.97	-13	-34.97

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	-45.61	V	7.95	0.78	0	-38.44	-13	-25.44
1697.6	-47.39	Н	7.95	0.78	0	-40.22	-13	-27.22
145.8	-51.13	V	2.7	0.15	0	-48.58	-13	-35.58
201.5	-52.24	V	4.1	0.15	0	-48.29	-13	-35.29

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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	-52.38	V	10.25	2.73	0	-44.86	-13	-31.86
3700.4	-52.02	Н	10.25	2.73	0	-44.5	-13	-31.5
146.8	-50.89	V	2.7	0.15	0	-48.34	-13	-35.34
201.5	-52.01	V	4.1	0.15	0	-48.06	-13	-35.06

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	-52.19	V	10.25	2.73	0	-44.67	-13	-31.67
3760	-51.58	Н	10.25	2.73	0	-44.06	-13	-31.06
145.5	-51.04	V	2.7	0.15	0	-48.49	-13	-35.49
202.4	-51.87	V	4.1	0.15	0	-47.92	-13	-34.92

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	-52.36	V	10.36	2.73	0	-44.73	-13	-31.73
3819.6	-51.72	Н	10.36	2.73	0	-44.09	-13	-31.09
146.6	-50.96	V	2.7	0.15	0	-48.41	-13	-35.41
201.8	-51.95	V	4.1	0.15	0	-48	-13	-35

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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	-57.89	V	7.95	0.78	0	-50.72	-13	-37.72
1652.8	-58.05	Н	7.95	0.78	0	-50.88	-13	-37.88
146.6	-50.65	V	2.7	0.15	0	-48.1	-13	-35.1
202.3	-52.13	V	4.1	0.15	0	-48.18	-13	-35.18

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	-58.05	V	7.95	0.78	0	-50.88	-13	-37.88
1670	-58.07	Н	7.95	0.78	0	-50.9	-13	-37.9
145.8	-50.84	V	2.7	0.15	0	-48.29	-13	-35.29
201.5	-51.88	V	4.1	0.15	0	-47.93	-13	-34.93

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	-58.02	V	7.95	0.78	0	-50.85	-13	-37.85
1693.2	-57.94	Н	7.95	0.78	0	-50.77	-13	-37.77
146.2	-50.82	V	2.7	0.15	0	-48.27	-13	-35.27
201.6	-51.91	V	4.1	0.15	0	-47.96	-13	-34.96

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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	-52.14	V	10.25	2.73	0	-44.62	-13	-31.62
3704.8	-51.92	Н	10.25	2.73	0	-44.4	-13	-31.4
146.2	-50.58	V	2.7	0.15	0	-48.03	-13	-35.03
201.6	-51.75	V	4.1	0.15	0	-47.8	-13	-34.8

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	-52.03	V	10.25	2.73	0	-44.51	-13	-31.51
3760	-52.26	Н	10.25	2.73	0	-44.74	-13	-31.74
146.2	-50.92	V	2.7	0.15	0	-48.37	-13	-35.37
201.6	-52.18	V	4.1	0.15	0	-48.23	-13	-35.23

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	-51.88	V	10.36	2.73	0	-44.25	-13	-31.25
3815.2	-52.32	Н	10.36	2.73	0	-44.69	-13	-31.69
146.2	-50.76	V	2.7	0.15	0	-48.21	-13	-35.21
201.6	-51.95	V	4.1	0.15	0	-48	-13	-35

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 24°C Relative Humidity 44%

Atmospheric Pressure 1017mbar

4. Test date: December 03, 2013 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)
823.9925	-13.38	-13
849.0400	-13.67	-13

PCS Band (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9950	-17.07	-13
1910.0225	-17.65	-13

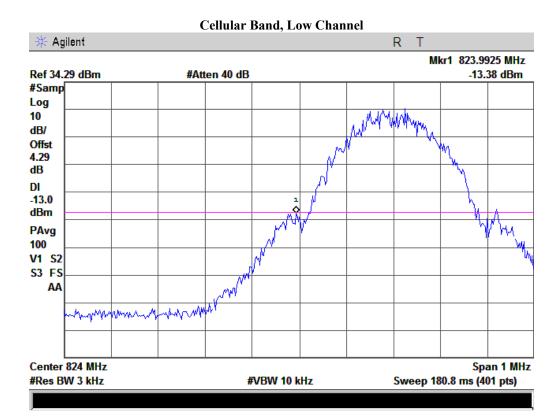
UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
824.000	-15.33	-13
849.000	-19.86	-13

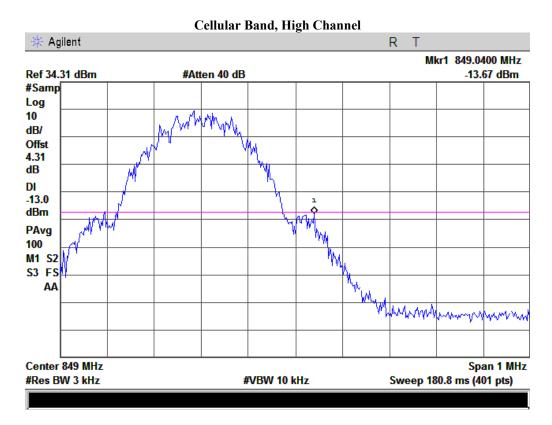
UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1850.000	-15.31	-13
1910.000	-16.41	-13

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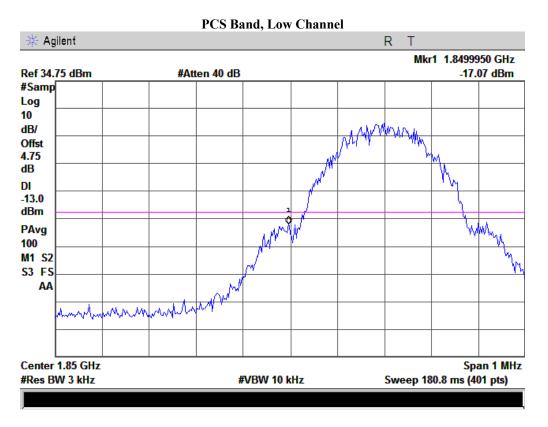


Note: Offset=Cable loss (4.0) + 10log (3.21/3)=4.0+0.29=4.29 dB

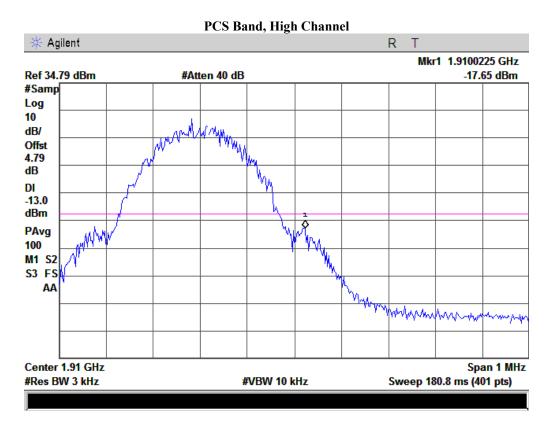


Note: Offset=Cable loss $(4.0) + 10\log (3.22/3) = 4.0 + 0.31 = 4.31 dB$

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Note: Offset=Cable loss (4.5) + 10log (3.18/3)=4.5+0.25=4.75 dB



Note: Offset=Cable loss (4.5) + 10log (3.21/3)=4.5+0.29=4.79 dB

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RF Test Report for 3G MOBILE PHONE

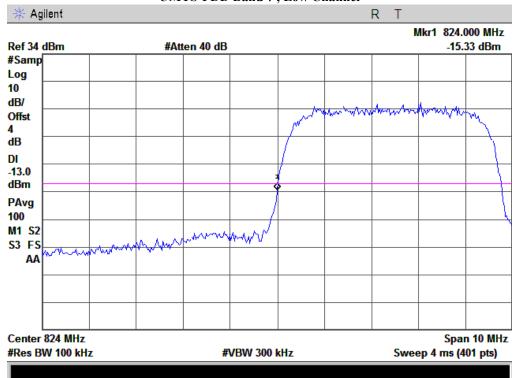
Main Model: AC4E

Serial Model: ANDY AC4E, AC4EW

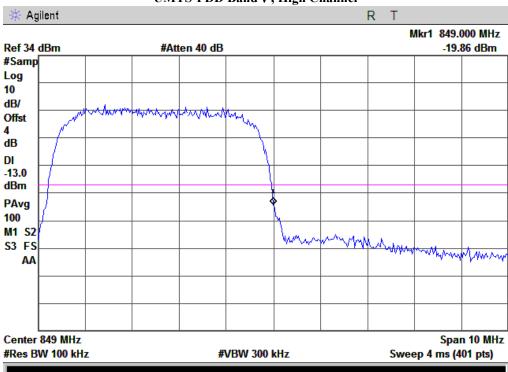
To: FCC Part 22(H) & FCC Part 24(E): 2013

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UMTS-FDD Band V, Low Channel



UMTS-FDD Band V, High Channel

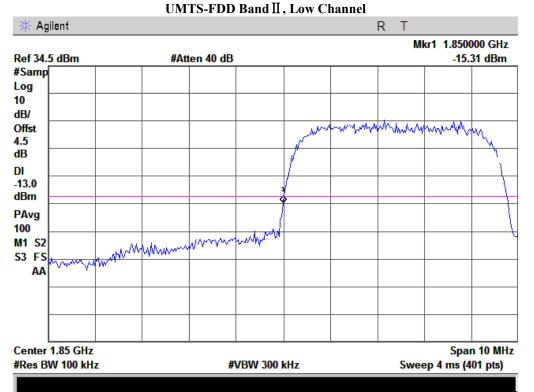




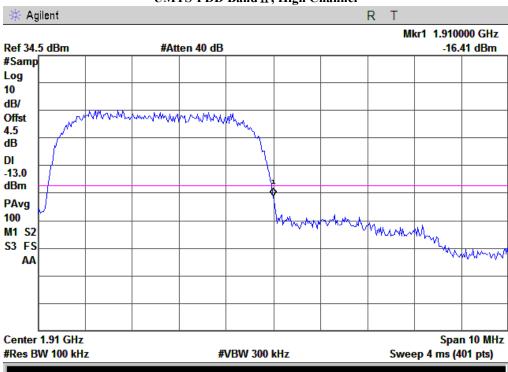
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UMTS-FDD Band II, High Channel



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

1. Environmental Conditions Temperature 24°C Relative Humidity 44%

Atmospheric Pressure 1017mbar

2. Test date: December 03, 2013 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		20	0.0239	2.5		
0		-16	-0.0191	2.5		
10	3.7	18	0.0215	2.5		
20		6	0.0072	2.5		
30		-16	-0.0191	2.5		
40		-21	-0.0251	2.5		
50		2	0.0024	2.5		
55		8	0.0096	2.5		
25	4.2	18	0.0215	2.5		
23	3.5	4	0.0048	2.5		

PCS Band (Part 24E)

	Middle Channel, f ₀ = 1880 MHz					
Temperature (°C)	Power Supplied (V_{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)		
-10		-16	-0.0085	2.5		
0		-36	-0.0191	2.5		
10	3.7	-26	-0.0138	2.5		
20		6	0.0032	2.5		
30		21	0.0112	2.5		
40		28	0.0149	2.5		
50		-33	-0.0176	2.5		
55		-19	-0.0101	2.5		
25	4.2	16	0.0085	2.5		
23	3.5	8	0.0043	2.5		

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RF Test Report for 3G MOBILE PHONE
Main Model: AC4E
Serial Model: ANDY AC4E, AC4EW
Fo: FCC Part 22(H) & FCC Part 24(E): 2013

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UMTS-FDD Band V (Part 22H)

	Middle Channel, $f_0 = 835 \text{ MHz}$				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		33	0.0395	2.5	
0		45	0.0539	2.5	
10		36	0.0431	2.5	
20	3.7	18	0.0216	2.5	
30		-12	-0.0144	2.5	
40		2	0.0024	2.5	
50		-24	-0.0287	2.5	
55		-44	-0.0527	2.5	
25	4.2	28	0.0335	2.5	
23	3.5	38	0.0455	2.5	

UMTS-FDD Band II (Part 24E)

	Middle Channel, f ₀ = 1880 MHz					
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)		
-10		41	0.0218	2.5		
0		-35	-0.0186	2.5		
10	3.7	-22	-0.0117	2.5		
20		-8	-0.0043	2.5		
30		24	0.0128	2.5		
40		32	0.0170	2.5		
50		-44	-0.0234	2.5		
55		-13	-0.0069	2.5		
25	4.2	-38	-0.0202	2.5		
25	3.5	-24	-0.0128	2.5		

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Annex A. TEST INSTRUMENT & METHOD

Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

Instrument	Model	Serial #	Calibratio n Date	Calibration Due Date
RF conducted test				
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	CFG038	10/25/2013	10/24/2014
Power Splitter	1#	1#	02/02/2013	02/01/2014
Universal Radio Communication Tester	CMU200	121393	09/17/2013	09/16/2014
Temperature/Humidity Chamber	1007H	N/A	01/07/2013	01/06/2014
DC Power Supply	E3640A	MY40004013	03/22/2013	03/21/2014
Radiated Emissions				
EMI test receiver	ESL6	100262	11/19/2013	11/18/2014
Positioning Controller	UC3000	MF780208282	11/19/2013	11/18/2014
OPT 010 AMPLIFIER(0.1- 1300MHz)	8447E	2727A02430	11/19/2013	11/18/2014
Microwave Preamplifier($0.5 \sim$ 18GHz)	PAM-118	443008	10/25/2013	10/24/2014
Bilog Antenna (30MHz~6GHz)	JB6	A110712	01/27/2013	01/26/2014
Bilog Antenna (30MHz~2GHz)	JB1	A112107	02/09/2013	02/09/2014
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	071259	11/20/2013	11/19/2014
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	071283	11/20/2013	11/19/2014
SYNTHESIZED SIGNAL GENERATOR	8665B	3744A01293	04/22/2013	04/21/2014
Tunable Notch Filter	3NF- 800/1000-S	AA4	12/14/2012	12/13/2013
Tunable Notch Filter	3NF- 1000/2000-S	AM 4	03/01/2013	02/28/2014
Universal Radio Communication Tester	CMU200	121393	09/17/2013	09/16/2014

Annex A. ii. RADIATED EMISSIONS TEST DESCRIPTION

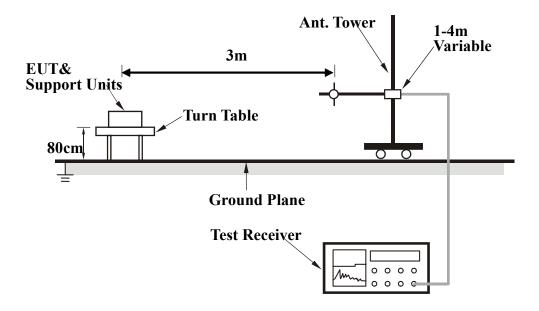
EUT Characterisation

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.



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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

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EUT - Front View



EUT - Rear View

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RF Test Report for 3G MOBILE PHONE
Main Model: AC4E
Serial Model: ANDY AC4E, AC4EW

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

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EUT - Top View



EUT - Bottom View

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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

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Main Model: AC4E
Serial Model: ANDY AC4E, AC4EW

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

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Cover Off - Rear Housing View



Adapter View

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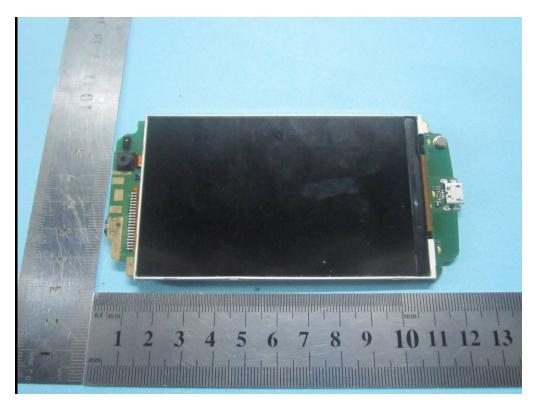
Battery - Top View



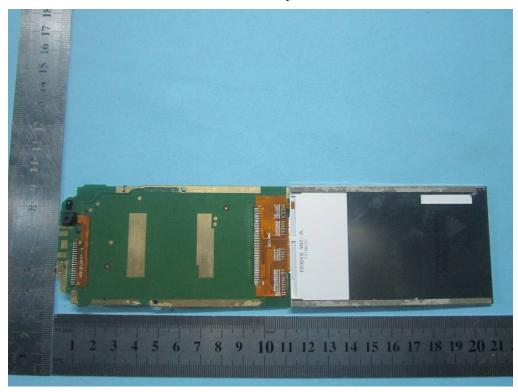
Battery - Bottom View



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Main Board - Top View



Main Board Uncover - Top View

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RF Test Report for 3G MOBILE PHONE

Main Model: AC4E

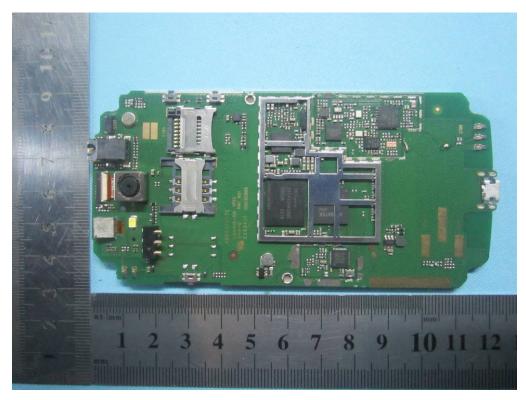
Serial Model: ANDY AC4E, AC4EW

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

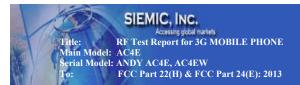
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Main Board - Bottom View



Main Board Without Shielding - Bottom View



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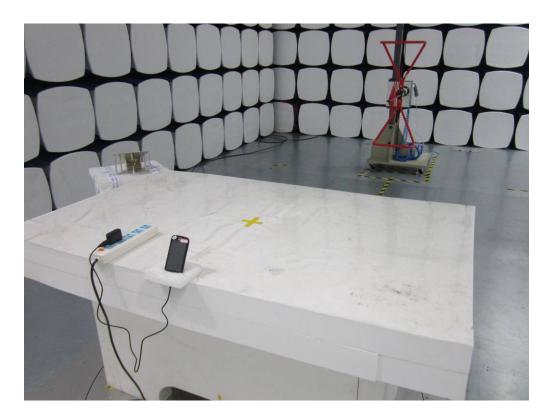
GSM/ UMTS Antenna

Bluetooth/WIFI /GPS Antenna

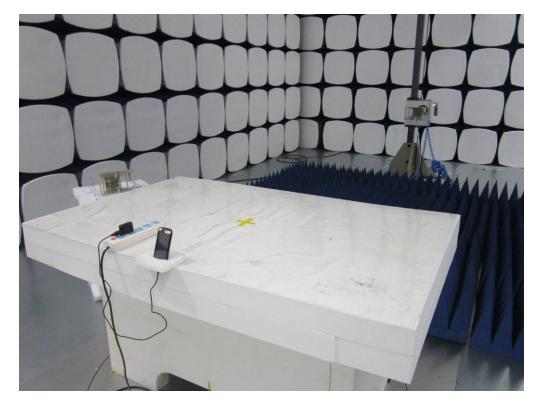
Antenna View

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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

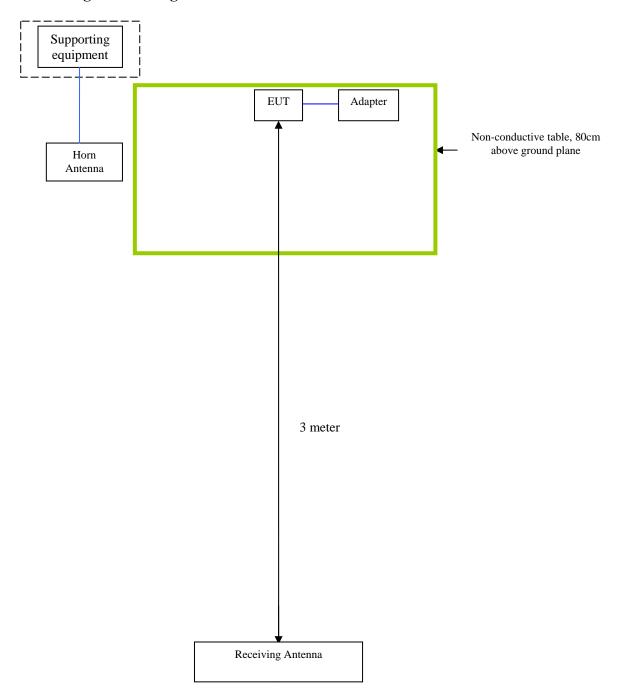
EUT TEST CONDITIONS

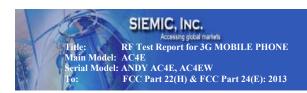
Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

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





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Annex C.ii. EUT OPERATING CONDITIONS

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

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

Please see attachment

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Annex E. DECLARATION OF SIMILARITY





To: 775 Montague Expressway Mlpitas, CA 95035, USA

Declaration Letter

For our business issue and marketing requirement, we would like to list 3 model numbers on The FCC reports, as following:

Model No.: AC4E, ANDY AC4E, AC4EW

We declare that, AC4E, ANDY AC4E, AC4EW PCB, Antenna and Appearance shape, accessories are the same, the difference of these is listed as below:

Main Model No	Serial Model No	Difference
AC4E	ANDY AC4E, AC4EW	color of the Appearance

Thank you!

Sincerely,

Client's signature:

Client's name / title: Luis Sosa/CEO

Contact information / address : 1616 NW, 84TH Ave. Miami, Florida, U.S.A 33126