

HONG KONG IPRO TECHNOLOGY CO., LIMITED

GSM Mobile Phone

Main Model: A5

Serial Model: N/A

November 30, 2013

Report No.: 13070560-FCC-R4

(This report supersedes none)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:

Kahn Yang Compliance Engineer	Alex Liu Technical Manager	

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

RF Test Report

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Title: RF Test Report for GSM Mobile Phone
Main Model: A5
Serial Model: N/A
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

Report No.: 13070560-FCC-R4
Issue Date: November 30, 2013
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Laboratory Introduction

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SIEMIC (Shenzhen - China) Laboratories Accreditations for Conformity Assessment

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 programme was to demonstrate compliance of the HONG KONG IPRO TECHNOLOGY CO., LIMITED, GSM Mobile Phone and model: A5 against the current Stipulated Standards. The GSM Mobile Phone has demonstrated compliance with the FCC Part 15.247: 2013, ANSI C63.4: 2009.

EUT Information

EUT Description : GSM Mobile Phone

Main Model : A5

Serial Model : N/A

Antenna Gain : UMTS-FDD Band V/GSM850: -1dBi
UMTS-FDD Band II/PCS1900: 1dBi
Bluetooth: 1.5dBi
WIFI: 1.5dBi

Input Power : Limited charger voltage: 4.2V
Adapter:
Model: NTR-S01
Input: AC 100-240V 50/60Hz 0.15A
Output: DC 5V 0.7A

Classification
Per Stipulated Test Standard : FCC Part 15.247: 2013, ANSI C63.4: 2009

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2 TECHNICAL DETAILS

Purpose	Compliance testing of GSM Mobile Phone with stipulated standard
Applicant / Client	HONG KONG IPRO TECHNOLOGY CO., LIMITED ROOM C1D, 6/F, WING HING INDUSTRIAL BUILDING, 14 HING YIP STREET, KWUN TONG, KOWLOON, HONGKONG
Manufacturer	SHENZHEN ZHIKE COMMUNICATION CO., LTD 1805,Tower A , Phase I, Tianan High-Tech Plaza, Futian District, Shenzhen, P.R.China
Laboratory performing the tests	SIEMIC Shenzhen (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	13070560-FCC-R4
Date EUT received	November 21, 2013
Standard applied	FCC Part 15.247: 2013, ANSI C63.4: 2009
Dates of test (from – to)	November 22, 2013 to November 29, 2013
No of Units :	#1
Equipment Category :	Spread Spectrum System/Device
Trade Name :	IPRO
RF Operating Frequency (ies)	GSM/GPRS850 TX : 824.2 ~ 848.8 MHz; RX : 869.2 ~ 893.8 MHz PCS/GPRS1900 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: 2412-2462 MHz Bluetooth & BLE: 2402-2480 MHz
Number of Channels	299CH (PCS/GPRS1900) and 124CH (GSM/GPRS850) UMTS-FDD Band V : 102CH UMTS-FDD Band II : 277CH Bluetooth: 79CH 802.11b/g/n(20M): 11CH BLE: 40CH
Modulation	GSM / PCS/GPRS: GMSK UMTS-FDD: QPSK 802.11b/g/n: DSSS/OFDM Bluetooth: GFSK& $\pi/4$ DQPSK&8DPSK BLE: GFSK
GPRS Multi-slot class	8/10/12
FCC ID	PQ4IPROA5



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3 MODIFICATION

NONE



4 TEST SUMMARY

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

Test Results Summary

FCC Rules	Description of Test	Result
§15.247 (i), §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.247 (a)(2)	DTS (6 dB&26 dB) CHANNEL BANDWIDTH	Compliance
§15.247(b)(3)	Conducted Maximum Output Power	Compliance
§15.247(e)	Power Spectral Density	Compliance
§15.247(d)	Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands	Compliance
§15.207 (a),	AC Power Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Radiated Spurious Emissions & Unwanted Emissions into Restricted Frequency Bands	Compliance

Note: The EUT of this report model number A5 and the sample of report 13070559-FCC-R4 model number V5 have same PCB and electrical parameters, the difference are below:

1. Change the appearance of material;
2. Change the GSM, UMTS, WIFI, BT antenna;
3. Change the battery capacity;

So we revised the related items, and kept all antenna port test data of 13070559. Details were explained in the Declaration letter from customer.

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5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

5.1 §15.247 (i) and §2.1093 – RF Exposure

Standard Requirement:

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

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

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

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

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

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

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

Two antennas are available for the EUT (GSM antenna, Bluetooth/BLE/WIFI antenna).

The maximum average output power(turn-up power) in low channel of WIFI is 7.90 dBm= 6.16 mW

The calculation results= $6.16/5 * \sqrt{2.412} = 1.913 < 3$

The maximum average output power(turn-up power) in middle channel of WIFI is 8.59 dBm= 7.23 mW

The calculation results= $7.23/5 * \sqrt{2.437} = 2.257 < 3$

The maximum average output power(turn-up power) in high channel of WIFI is 8.42 dBm= 6.95 mW

The calculation results= $6.95/5 * \sqrt{2.462} = 2.181 < 3$

According to KDB 447498, no stand-alone required for WIFI antenna, and no simultaneous SAR measurement is required , please refer to SAR report.

Test Result: Pass

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5.2 §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has 2 antennas: a comments antenna for Bluetooth, the gain is 1.5dBi;
for WIFI, the gain is 1.5dBi
.a PIFA antenna for GSM, the gain is -1dBi for GSM, 1dBi for PCS;
for WCDMA the gain are -1dBi for Band V, 1dBi for Band;

which in accordance to section 15.203, please refer to the internal photos.

Test Result: Pass

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5.3 §15.247(a) (2) –DTS (6 dB&20 dB) CHANNEL BANDWIDTH

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. Environmental Conditions

Temperature	24°C
Relative Humidity	50%
Atmospheric Pressure	1012mbar

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 ± 1.5 dB.

4. Test date : November 25, 2013

Tested By : Kahn Yang

Requirement(s): The minimum 6 dB bandwidth of a DTS transmission shall be at least 500 kHz. Within this document, this bandwidth is referred to as the DTS bandwidth. The procedures provided herein for measuring the maximum peak conducted output power assume the use of the DTS bandwidth.

Procedures:

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Test Result: Pass.

Note: The following test dates please refer to report 13070559-CE-R4.

Please refer to the following tables and plots.

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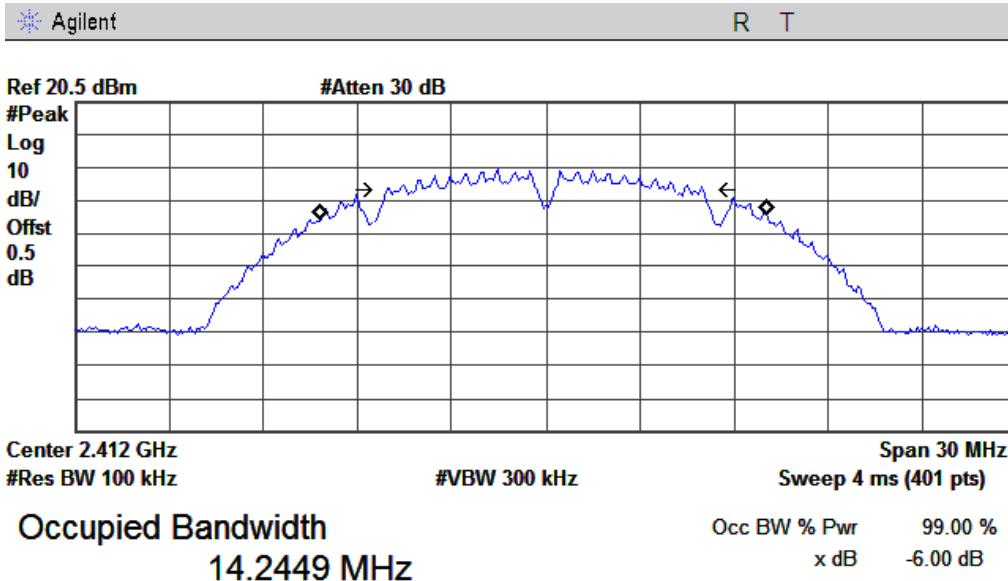
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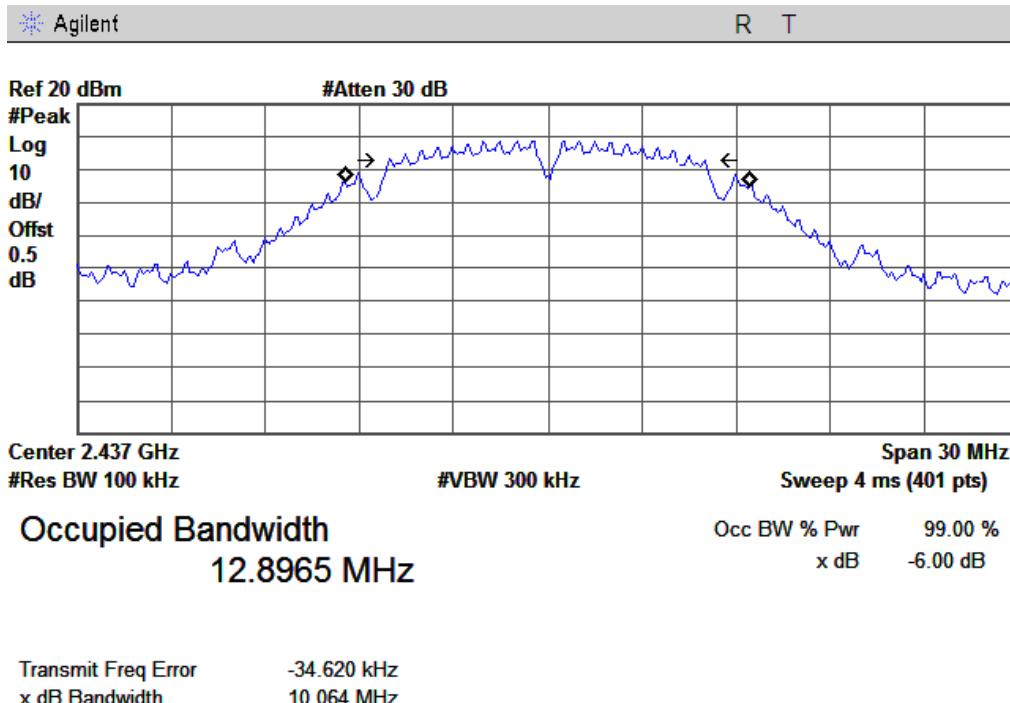
6dB bandwidth:

Channel	Channel Frequency (MHz)	Data Rate (Mbps)	Measured 6dB Bandwidth (MHz)	FCC Part 15.247 Limit (kHz)
802.11b mode				
Low	2412	1	10.055	>500
Middle	2437	1	10.064	>500
High	2462	1	10.052	>500
802.11g mode				
Low	2412	6	15.785	>500
Middle	2437	6	16.073	>500
High	2462	6	15.649	>500
802.11n(20M) mode				
Low	2412	MCS0	17.090	>500
Middle	2437	MCS0	16.975	>500
High	2462	MCS0	17.143	>500

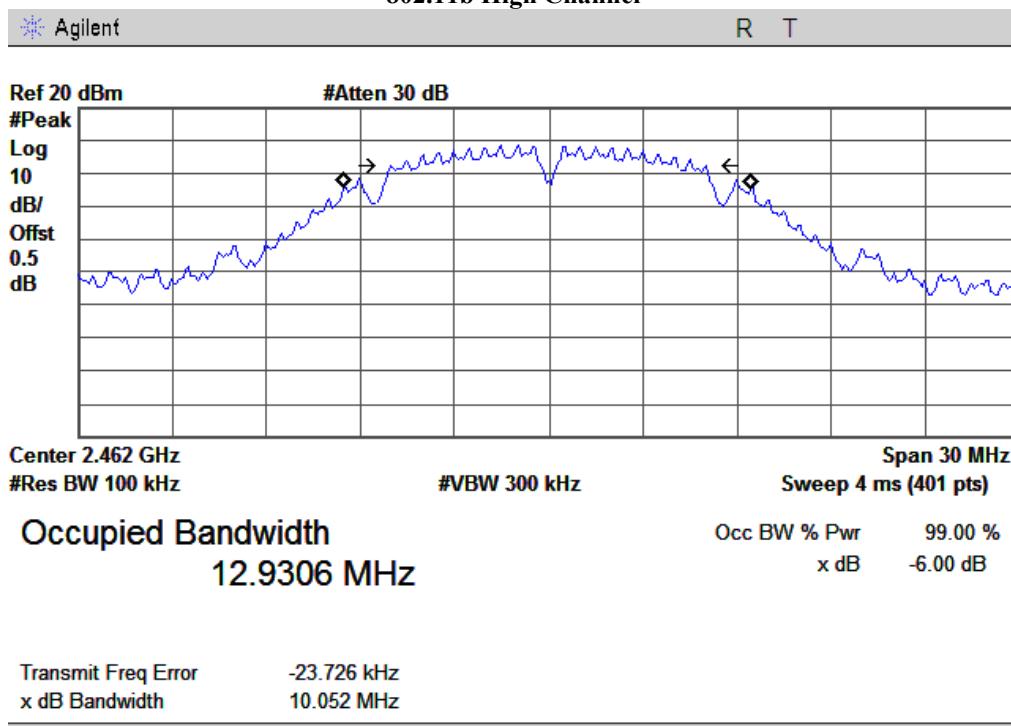
802.11b Low Channel

Transmit Freq Error -62.183 kHz
x dB Bandwidth 10.055 MHz

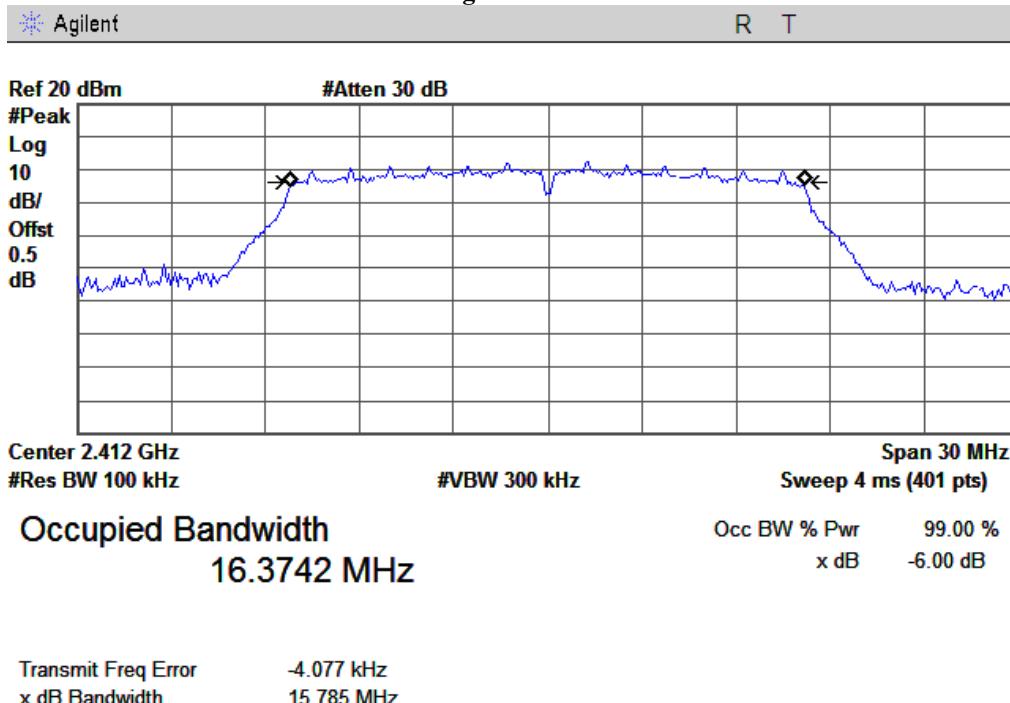
802.11b Middle Channel



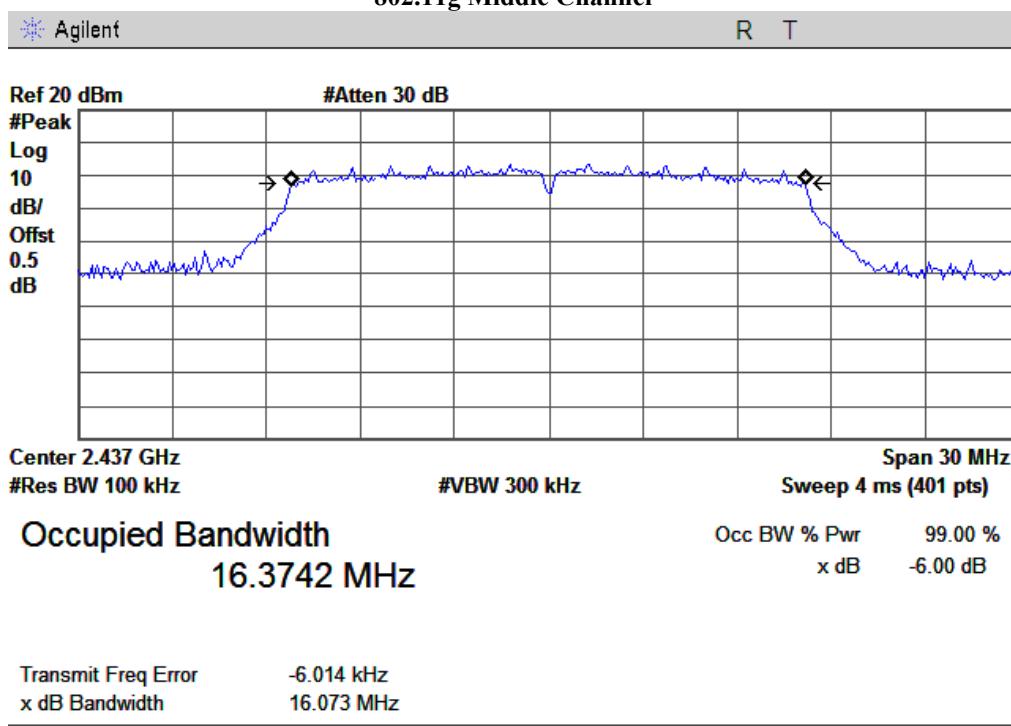
802.11b High Channel



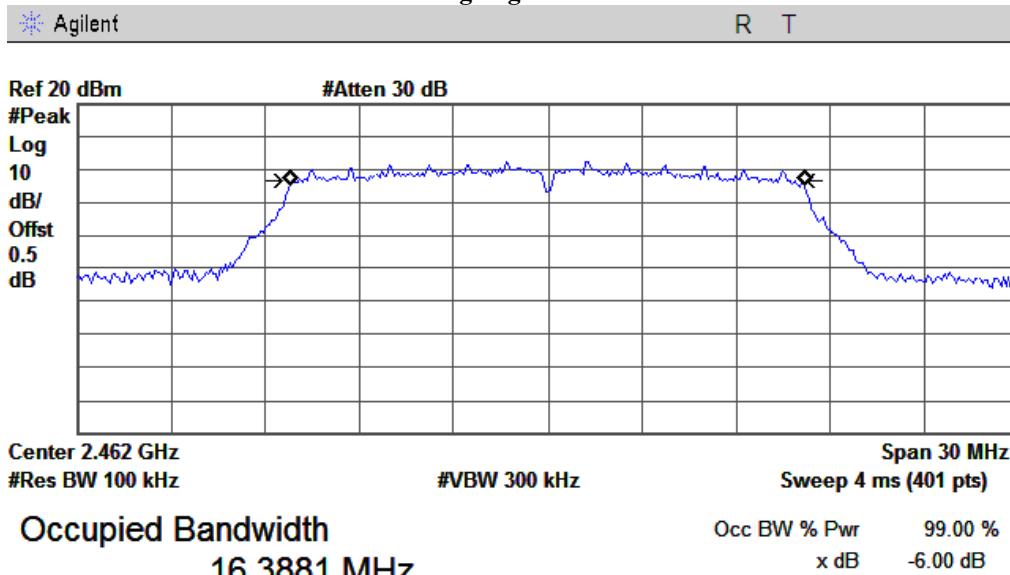
802.11g Low Channel



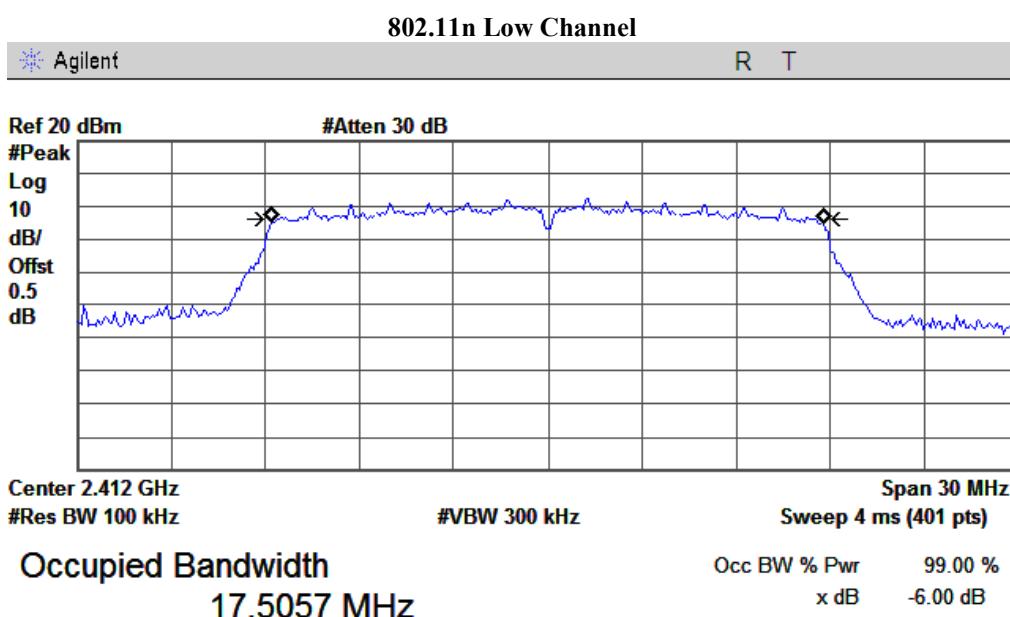
802.11g Middle Channel



802.11g High Channel

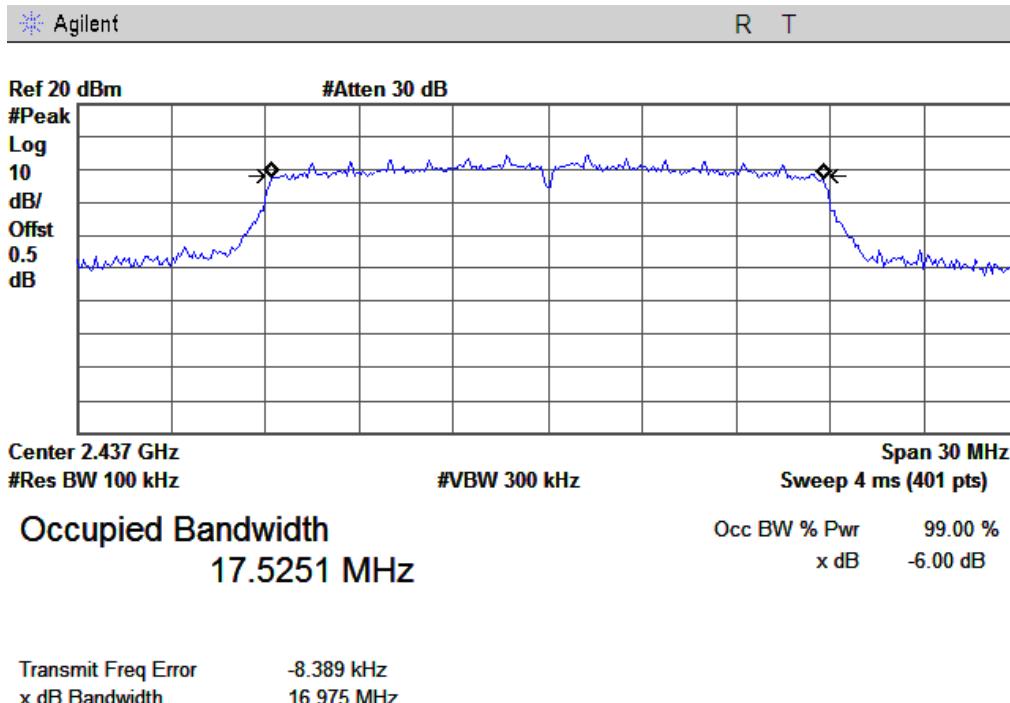


Transmit Freq Error -17.981 kHz
x dB Bandwidth 15.649 MHz

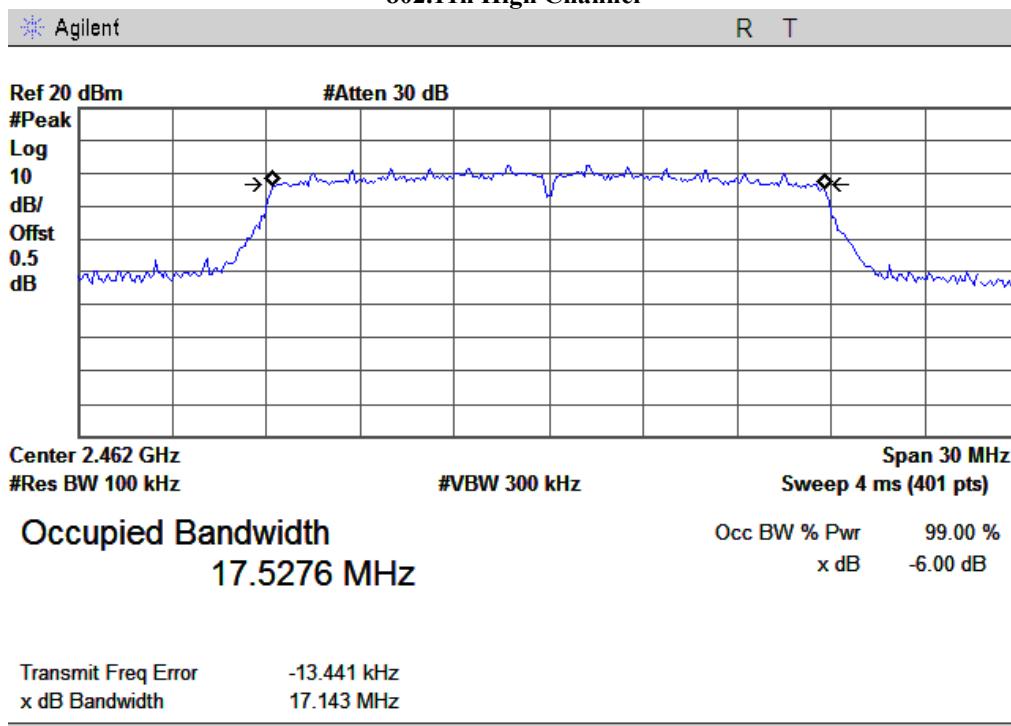


Transmit Freq Error -3.999 kHz
x dB Bandwidth 17.090 MHz

802.11n Middle Channel



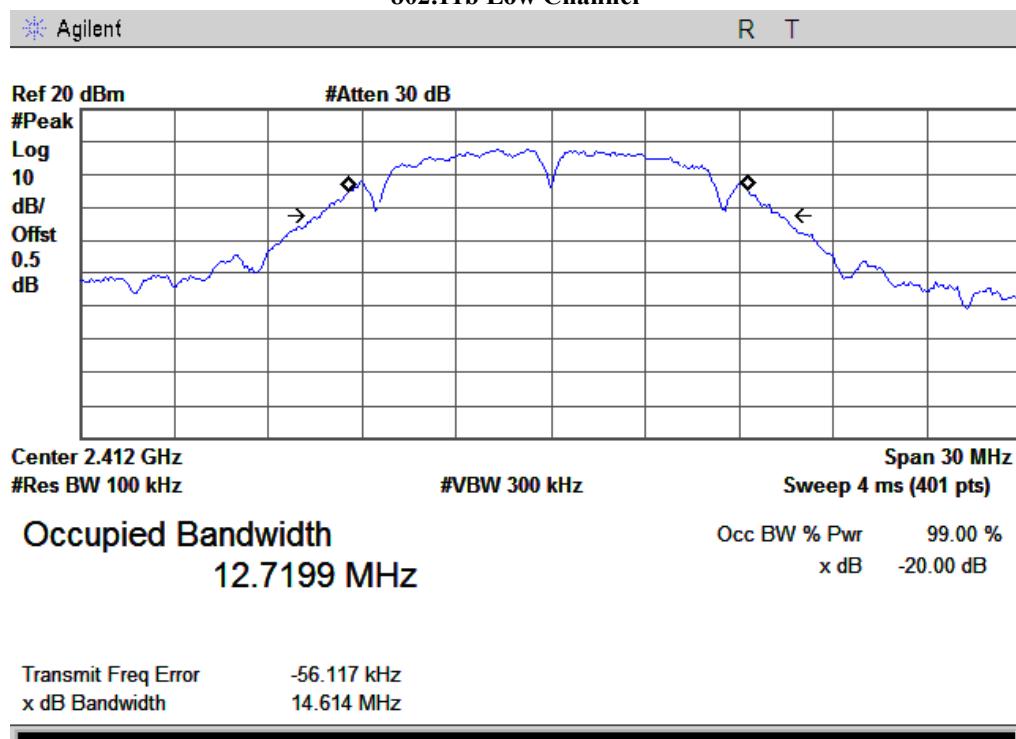
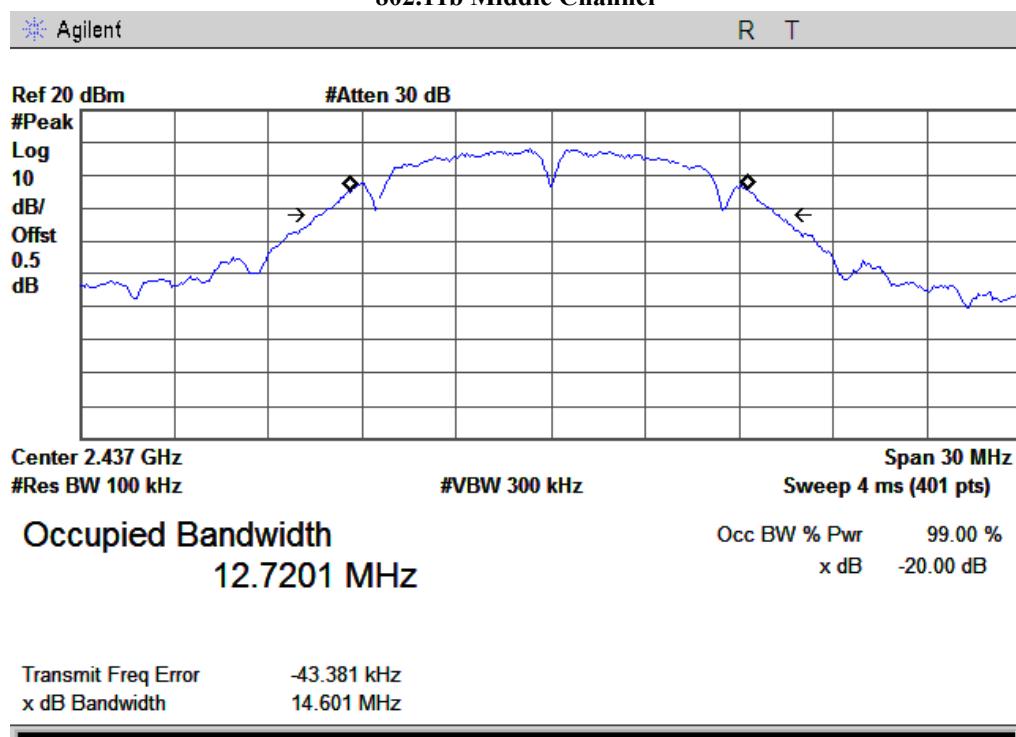
802.11n High Channel



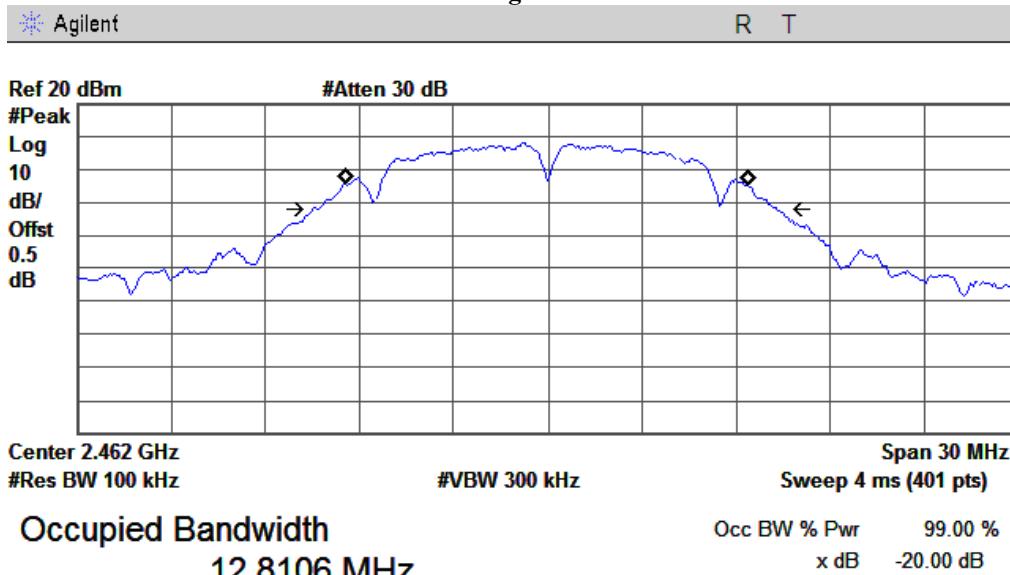
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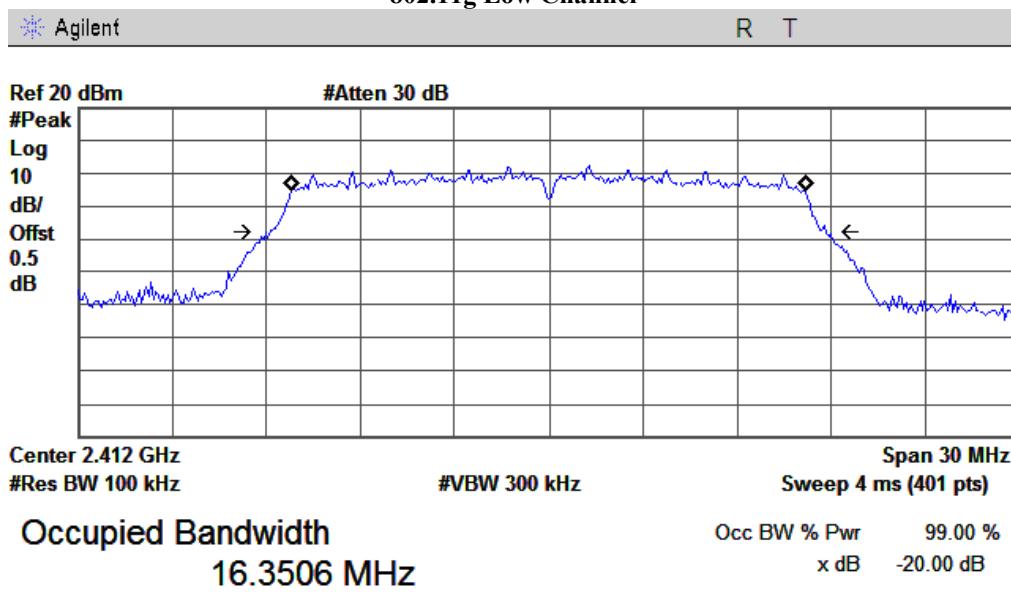
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The 20dB bandwidth:**802.11b Low Channel****802.11b Middle Channel**

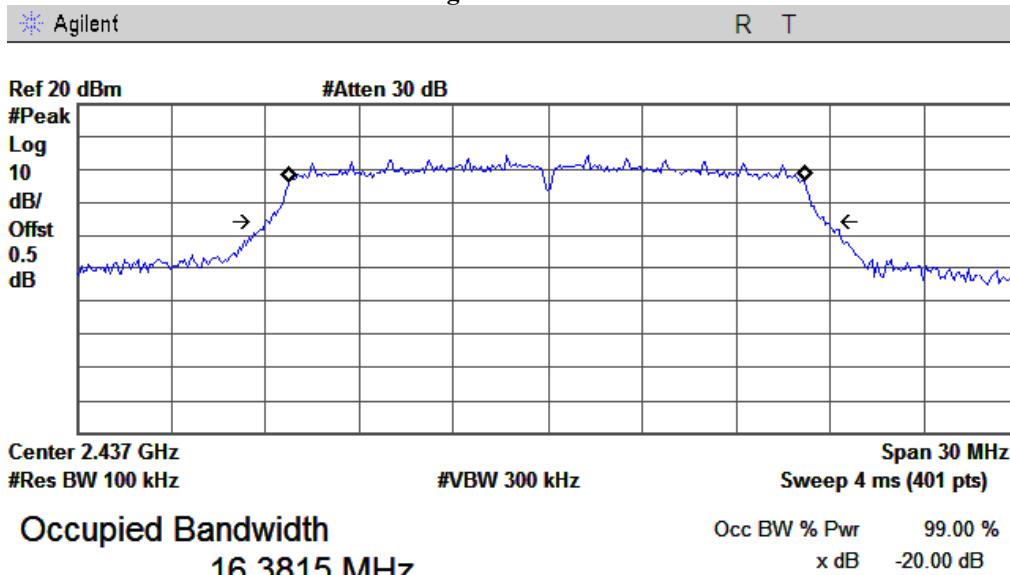
802.11b High Channel



802.11g Low Channel

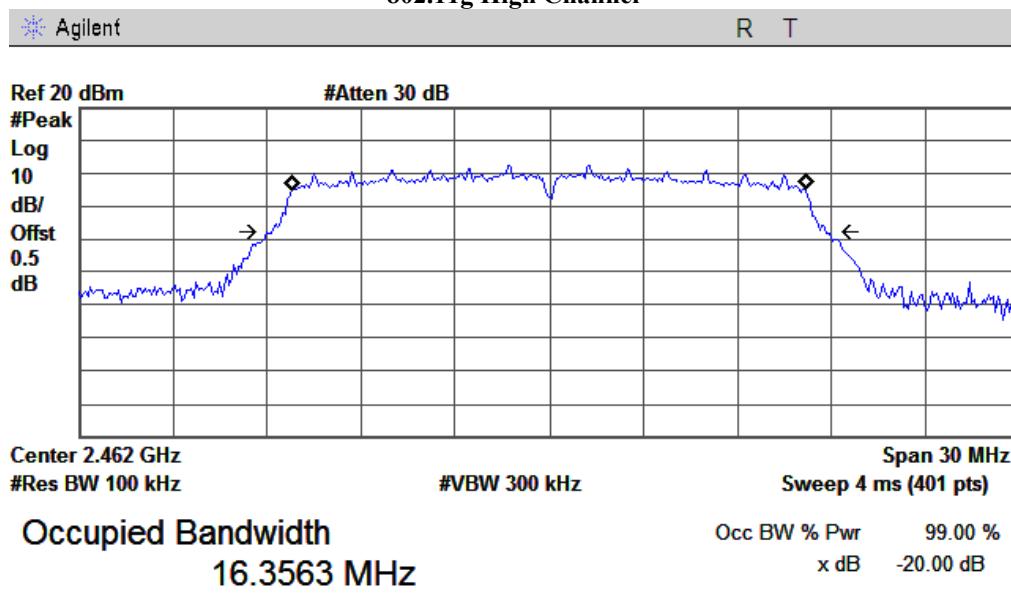


802.11g Middle Channel



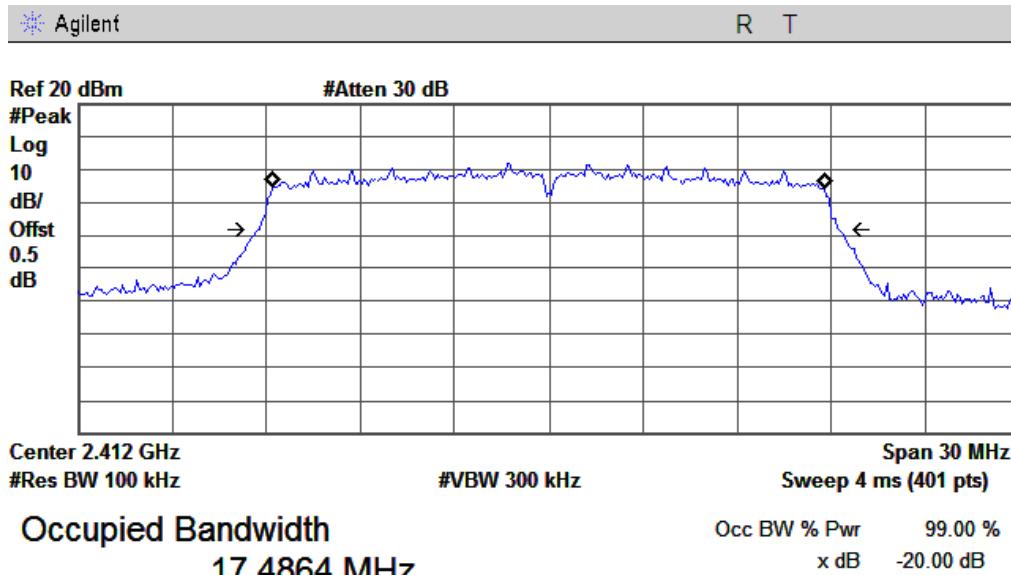
Transmit Freq Error -21.791 kHz
 x dB Bandwidth 17.796 MHz

802.11g High Channel

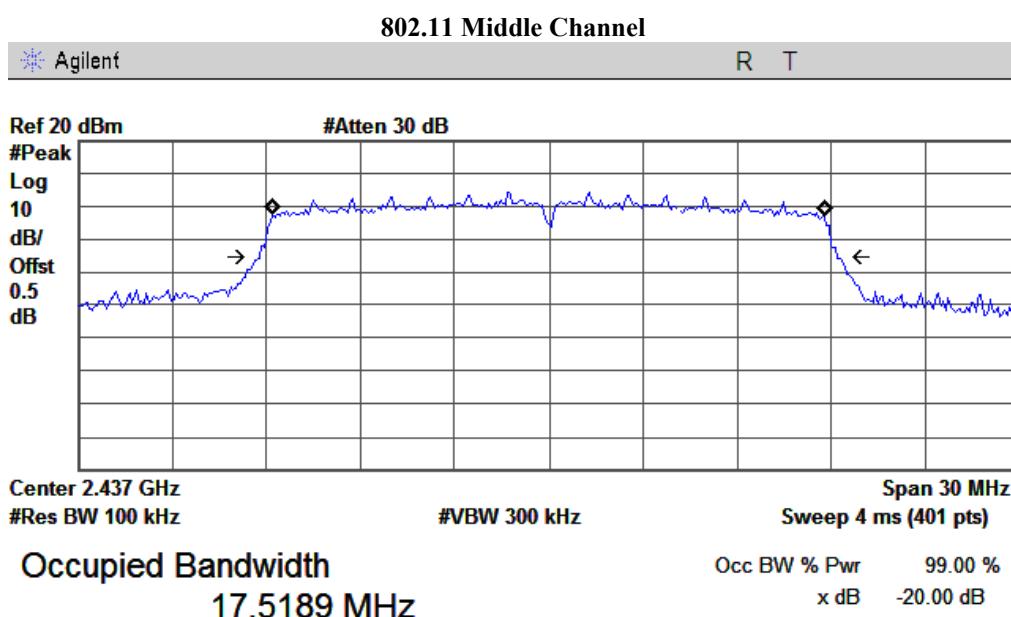


Transmit Freq Error -10.213 kHz
 x dB Bandwidth 17.644 MHz

802.11n Low Channel



Transmit Freq Error -4.648 kHz
 x dB Bandwidth 18.483 MHz



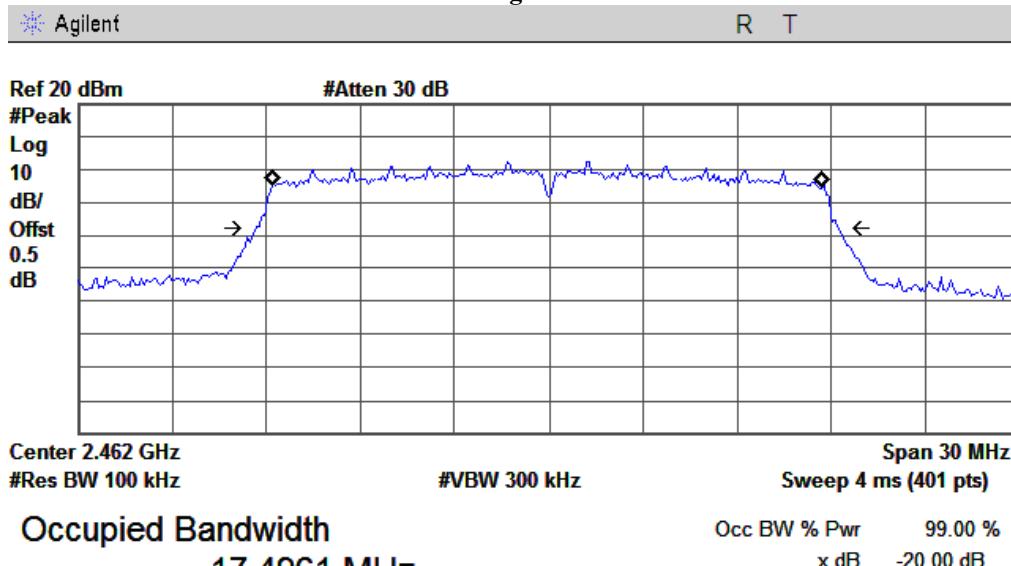
Transmit Freq Error -10.825 kHz
 x dB Bandwidth 18.440 MHz

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802.11n High Channel

Transmit Freq Error -13.234 kHz
x dB Bandwidth 18.557 MHz



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5.4 §15.247(b) (3) - Conducted Maximum 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 $\pm 1.5\text{dB}$.
3. Environmental Conditions

Temperature	24°C
Relative Humidity	50%
Atmospheric Pressure	1010mbar
4. Test date : November 26, 2013
Tested By : Kahn Yang

Standard Requirement:

Maximum Peak Conducted Output Power

The following procedures can be used to determine the maximum peak conducted output power of a DTS EUT.

Maximum Conducted Output Power

§15.247(b)(3) permits the maximum (average) conducted output power to be measured as an alternative to the maximum peak conducted output power for demonstrating compliance to the limit. When these procedures are utilized, the power is referenced to the emission bandwidth (EBW) rather than the DTS bandwidth (see Section 2.0 for definitions).

When using a spectrum/signal analyzer to perform these measurements, it must be capable of utilizing a number of measurement points in each sweep that is greater than or equal to twice the span/RBW in order to ensure bin-to-bin spacing of $\leq \text{RBW}/2$ so that narrowband signals are not lost between frequency bins.

The ideal method for measuring the maximum (average) conducted output power is with the EUT is configured to transmit continuously (duty cycle $\geq 98\%$) at its maximum power control level. However, when this condition cannot be realized, video triggering or signal gating can be used to ensure that the measurements are performed only during periods when the EUT is transmitting at its maximum power control level. An option is also provided that can be used when none of the above requirements can be met with the available measurement instrumentation.

Procedures:

Measurement Procedure PK:

This procedure should only be used when the maximum available RBW of the spectrum/signal analyzer is less than the DTS bandwidth.

1. Set the RBW = maximum available (at least 1 MHz).
2. Set the VBW = $3 \times \text{RBW}$ or maximum available setting (must be $\geq \text{RBW}$).
3. Set the span to fully encompass the DTS bandwidth.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the spectrum analyzer's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some analyzers, this may require a manual override to ensure use of peak detector). If the spectrum analyzer does not have a band power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

Measurement Procedure AVG:

This procedure should be used with an RMS power averaging detector; however, a sample detector can be used when an RMS detector is not available. This is the baseline method for measuring the maximum (average) conducted output power.

1. Set the analyzer span to a minimum of 1.5 times the EBW.
2. Set the RBW = 1 MHz.
3. Set the VBW ≥ 3 MHz.
4. Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span}/\text{RBW}$.
5. Sweep time = auto couple.

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6. Detector = power averaging (RMS) or sample detector when RMS not available.
7. Employ trace averaging in power averaging (RMS) mode over a minimum of 100 traces.
8. Use the spectrum analyzer's band power measurement function with band limits set equal to the EBW band edges.

Note: If the analyzer does not have a band power function, sum the spectral levels (in linear power units) at 1 MHz intervals extending across the entire EBW.

Test Result: Pass.

Note: The following test dates please refer to report 13070559-CE-R4.

Please refer to the following tables and plots.

The Peak Power

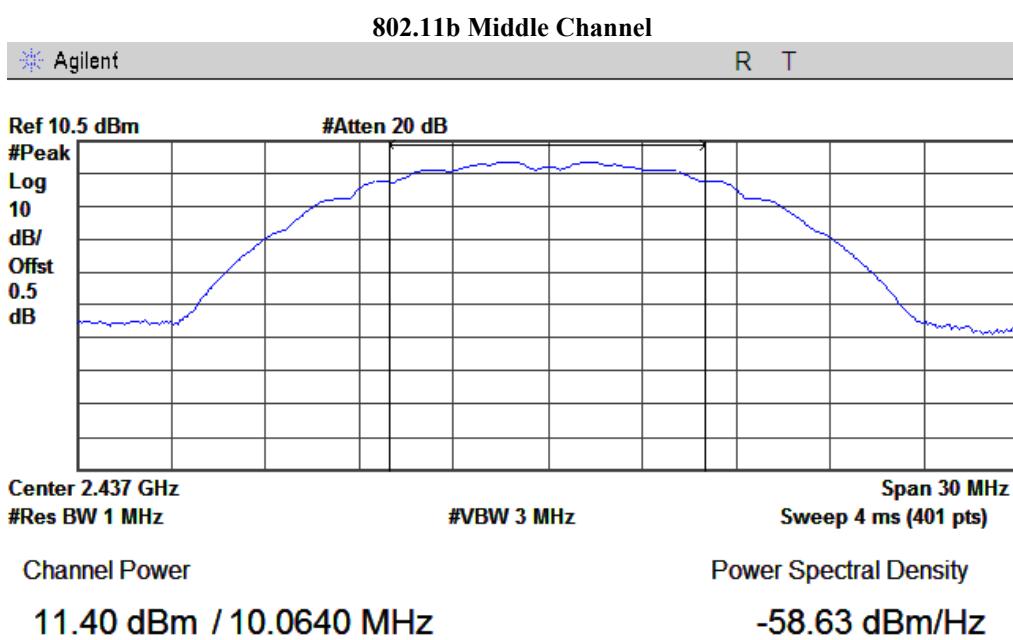
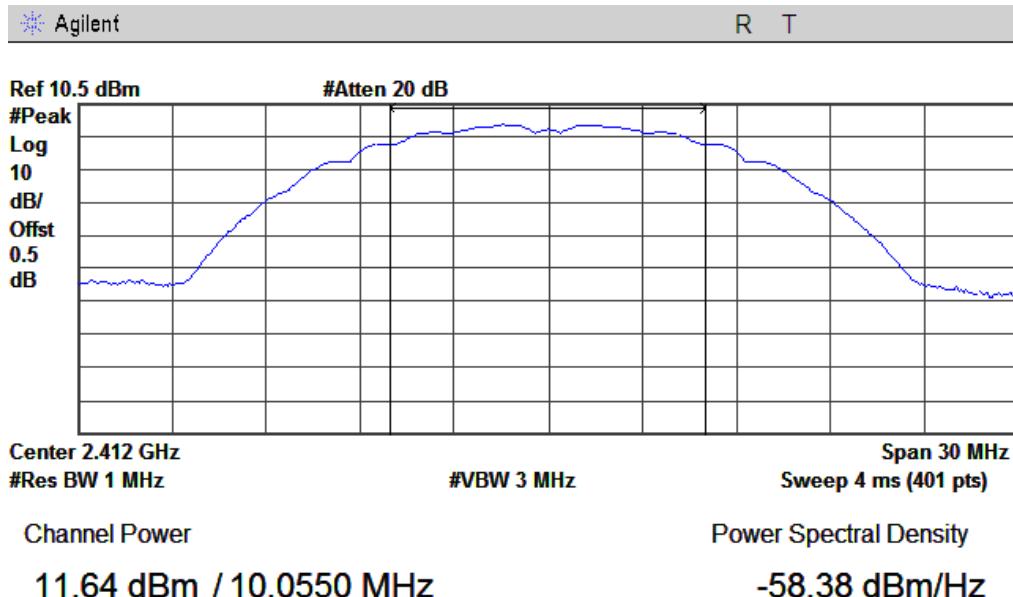
Channel	Channel Frequency (MHz)	Data Rate (Mbps)	PK Output Power (dBm)	AV Output Power (dBm)	Limit (dBm)
802.11b mode					
Low	2412	1	11.64	7.90	30
Middle	2437	1	11.40	8.38	30
High	2462	1	11.75	8.23	30
802.11g mode					
Low	2412	6	13.25	7.90	30
Middle	2437	6	13.77	8.59	30
High	2462	6	13.73	8.42	30
802.11n mode					
Low	2412	MCS0 (20M)	13.12	7.87	30
Middle	2437	MCS0 (20M)	13.21	8.09	30
High	2462	MCS0 (20M)	13.94	7.91	30

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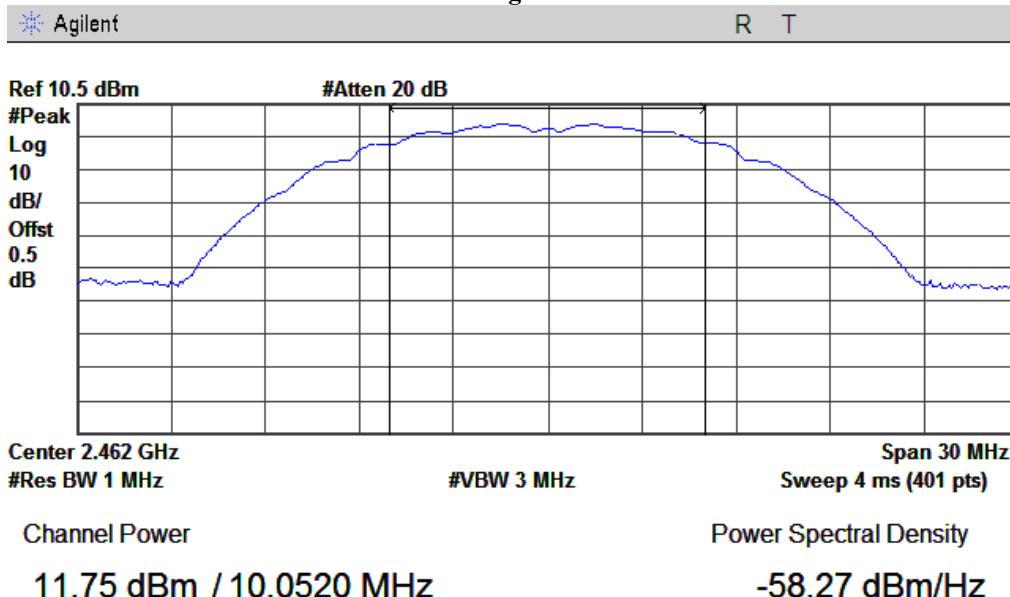
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Title: RF Test Report for GSM Mobile Phone
Main Model: A5
Serial Model: N/A
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

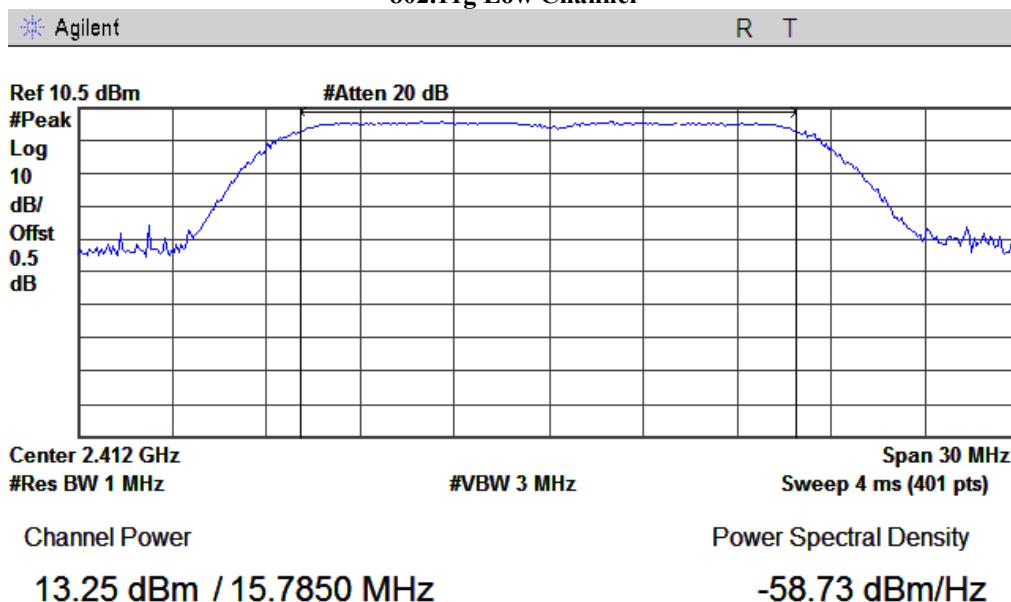
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The Peak Power**802.11b Low Channel**

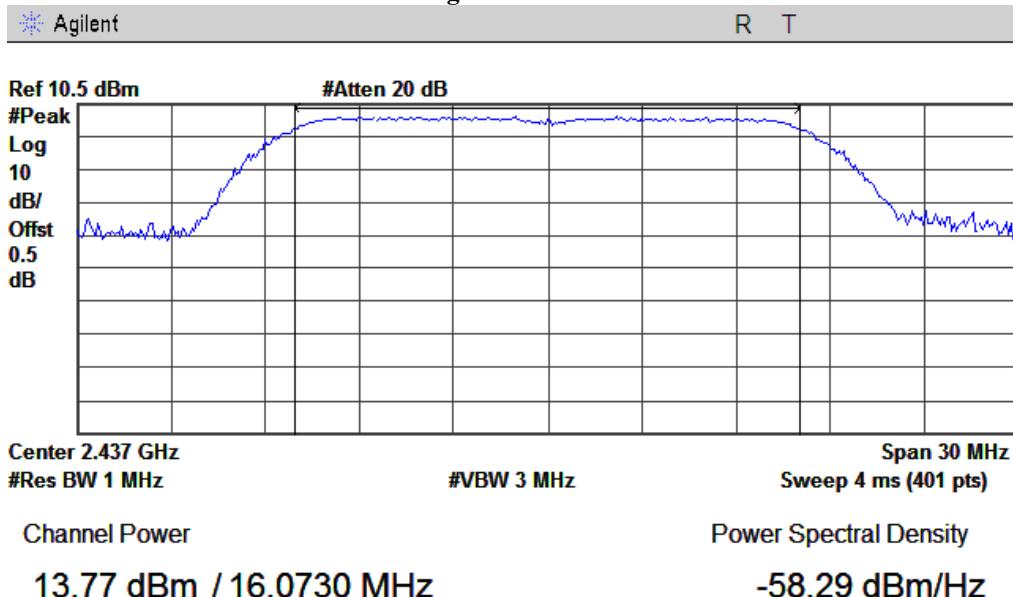
802.11b High Channel



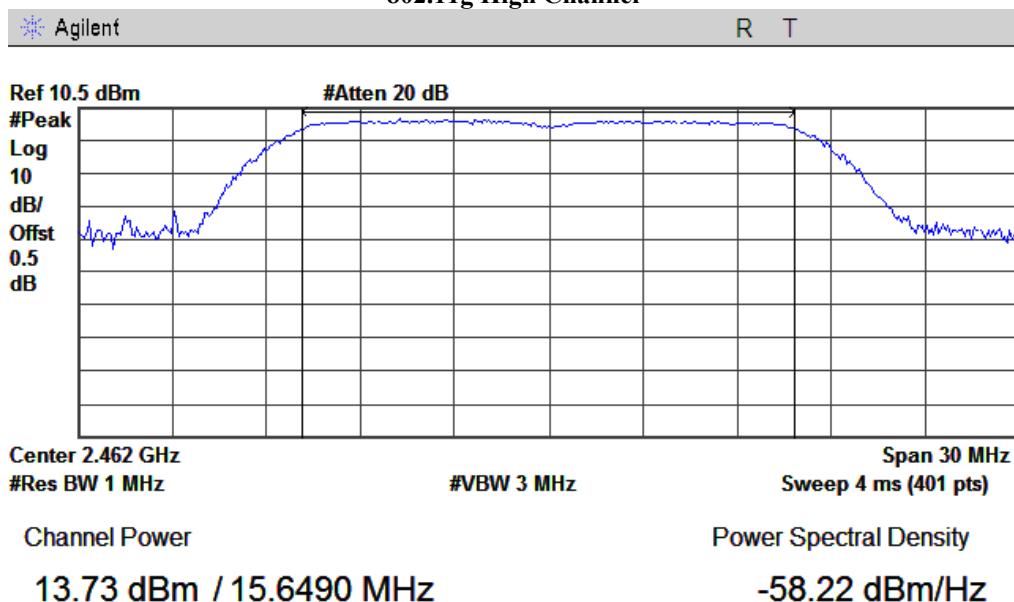
802.11g Low Channel



802.11g Middle Channel



802.11g High Channel





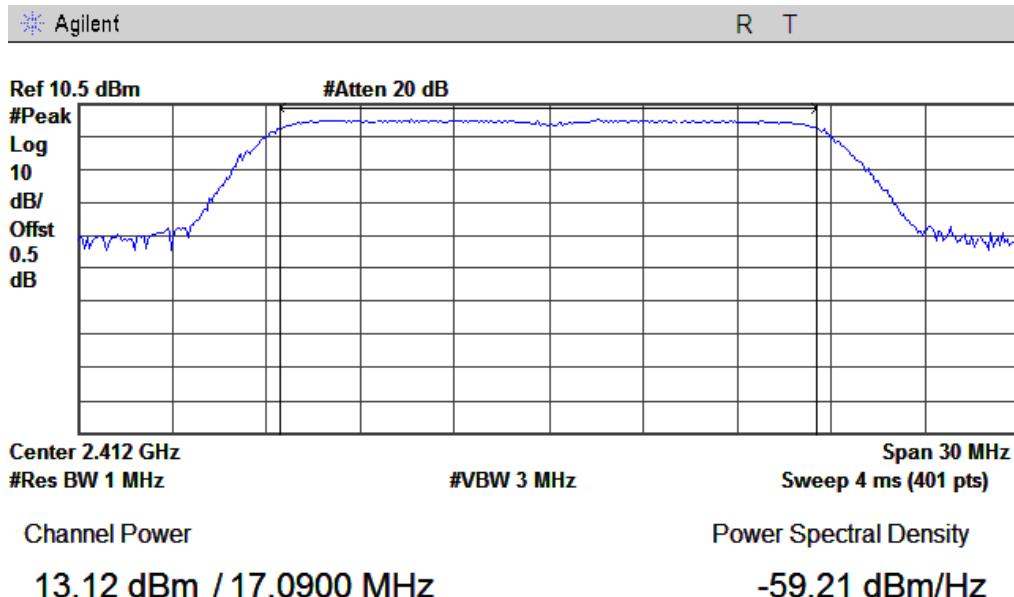
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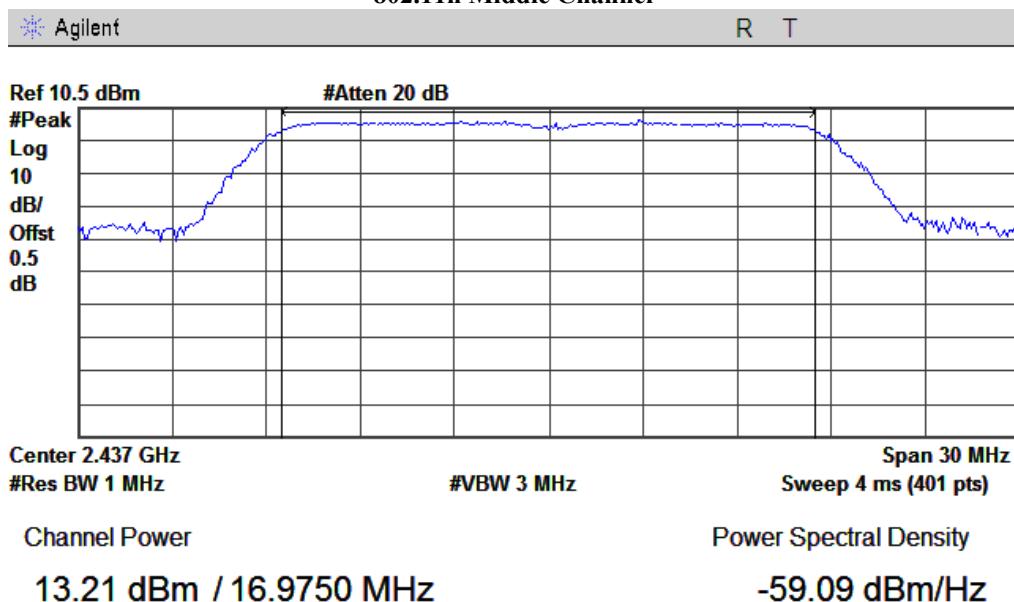
Title: RF Test Report for GSM Mobile Phone
Main Model: A5
Serial Model: N/A
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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802.11n Low Channel



802.11n Middle Channel

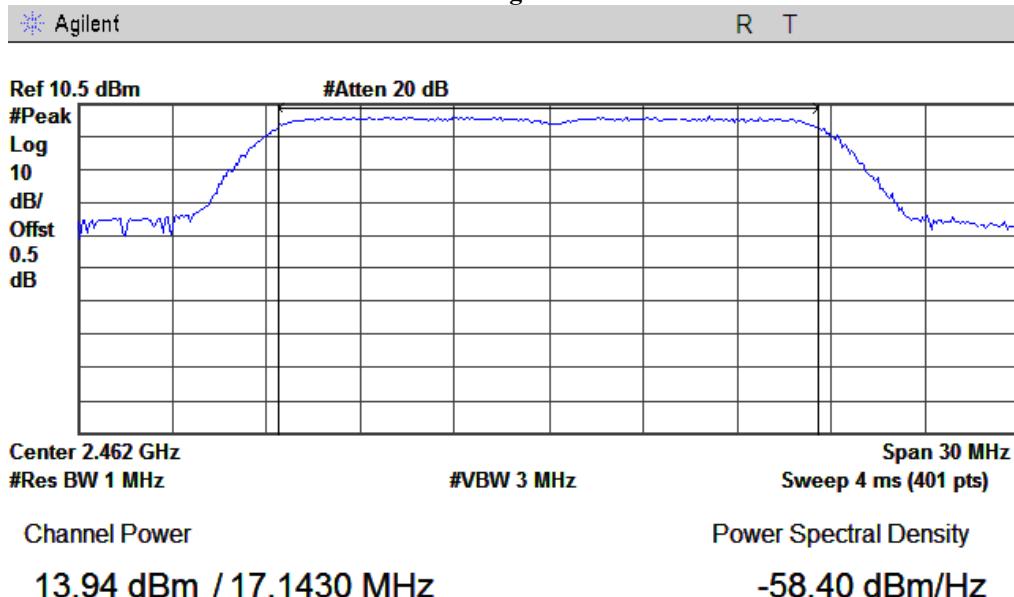
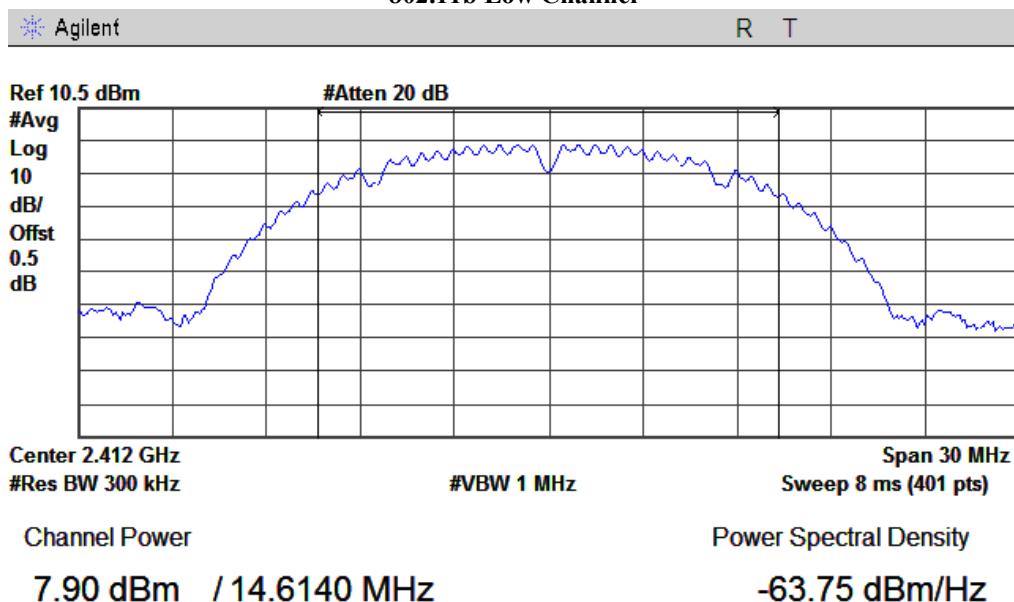


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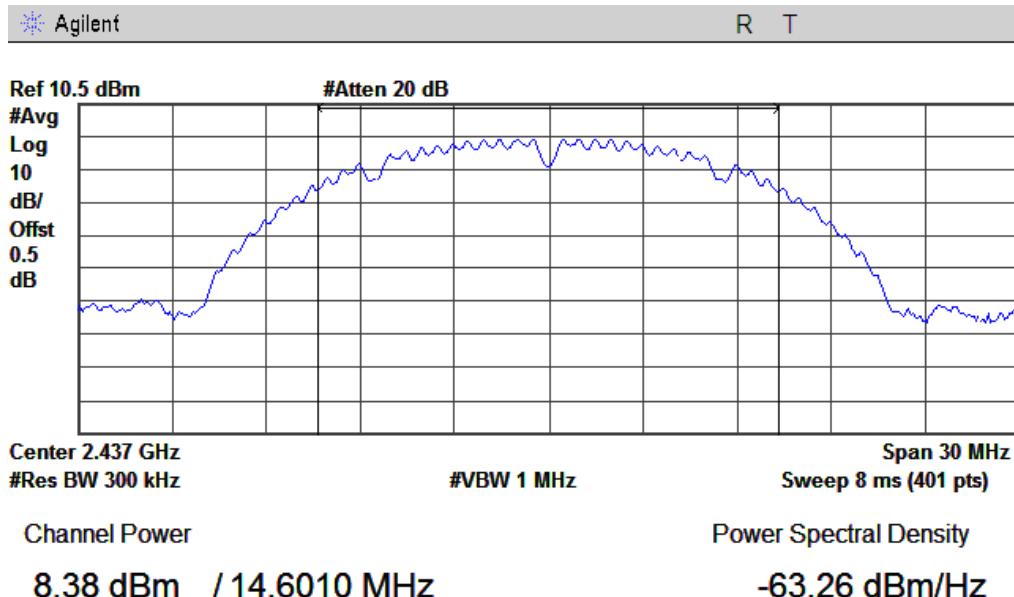
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Title: RF Test Report for GSM Mobile Phone
Main Model: A5
Serial Model: N/A
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

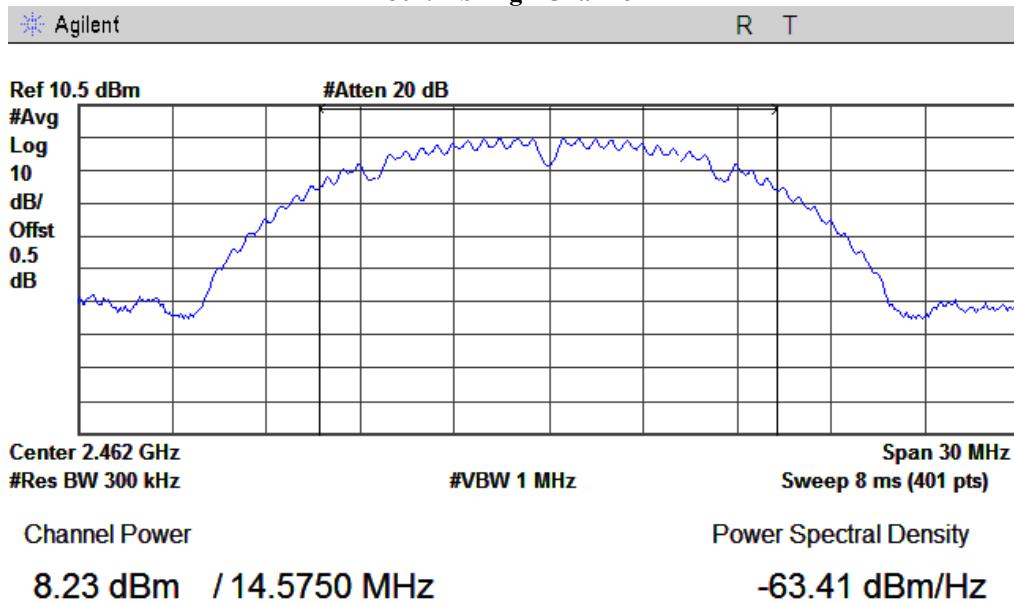
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802.11n High Channel**The Average Power****802.11b Low Channel**

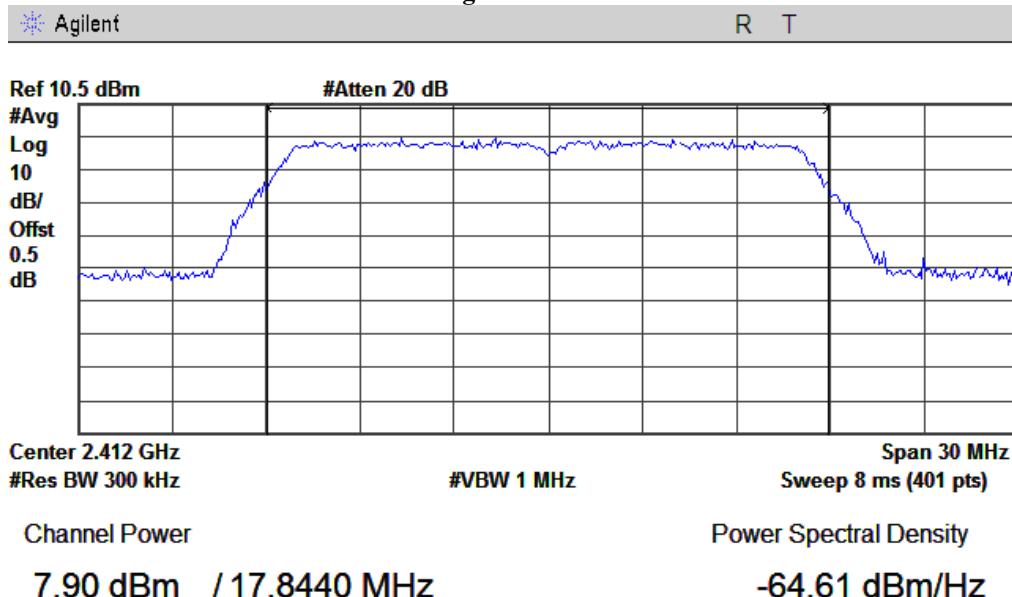
802.11b Middle Channel



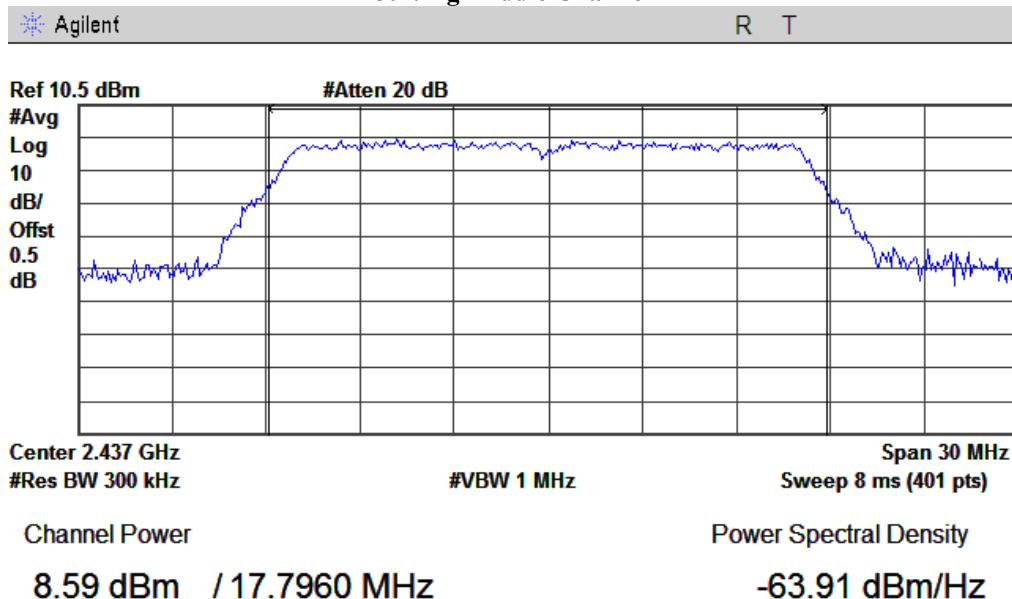
802.11b High Channel



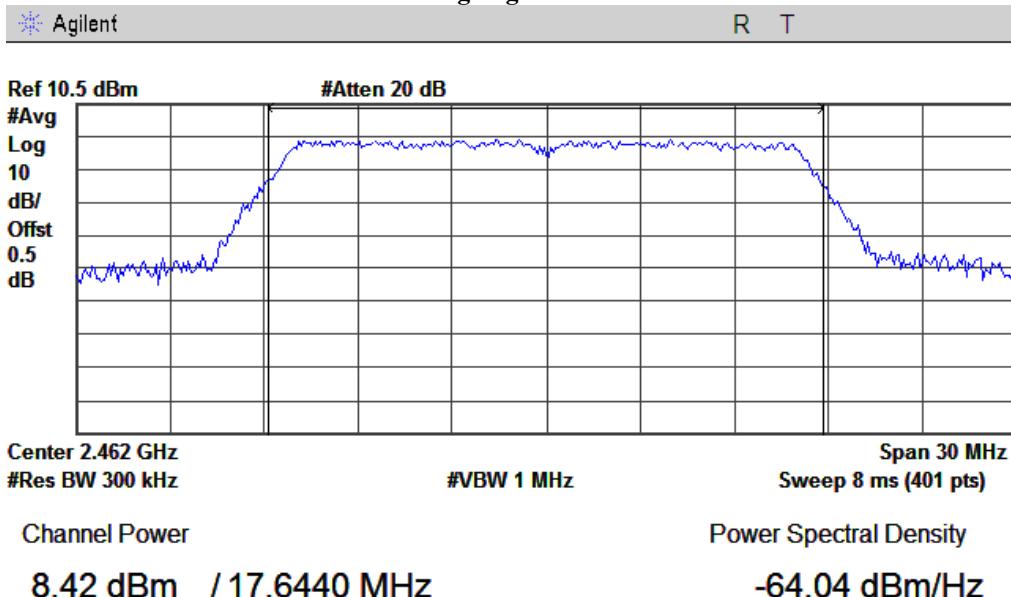
802.11g Low Channel



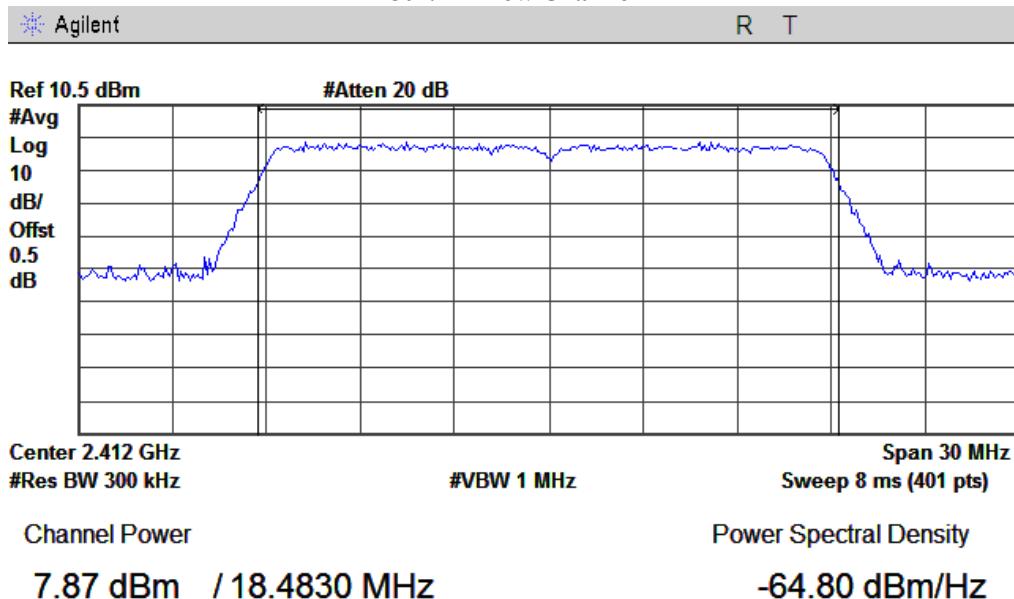
802.11g Middle Channel



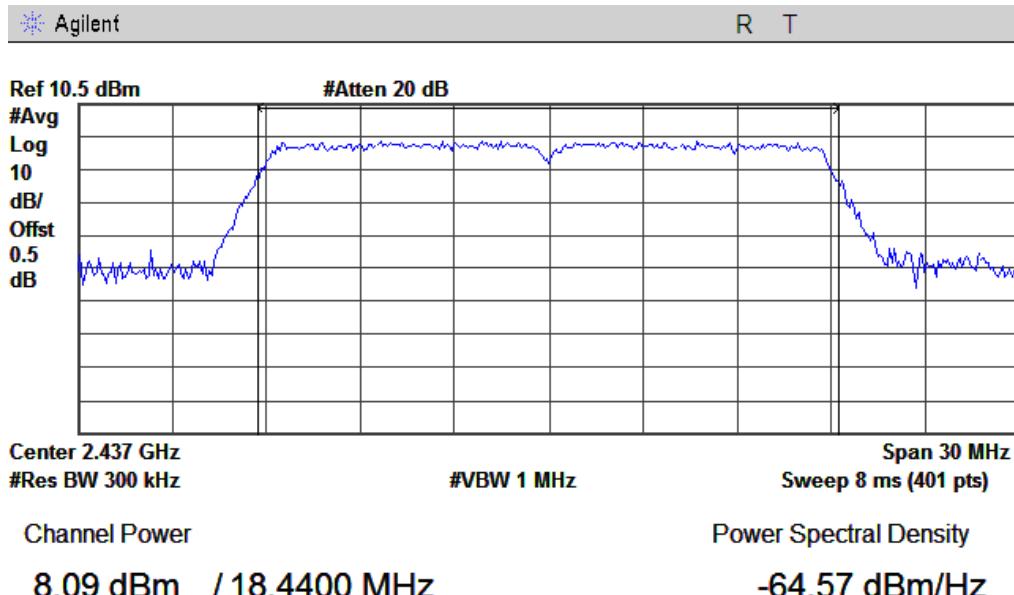
802.11g High Channel



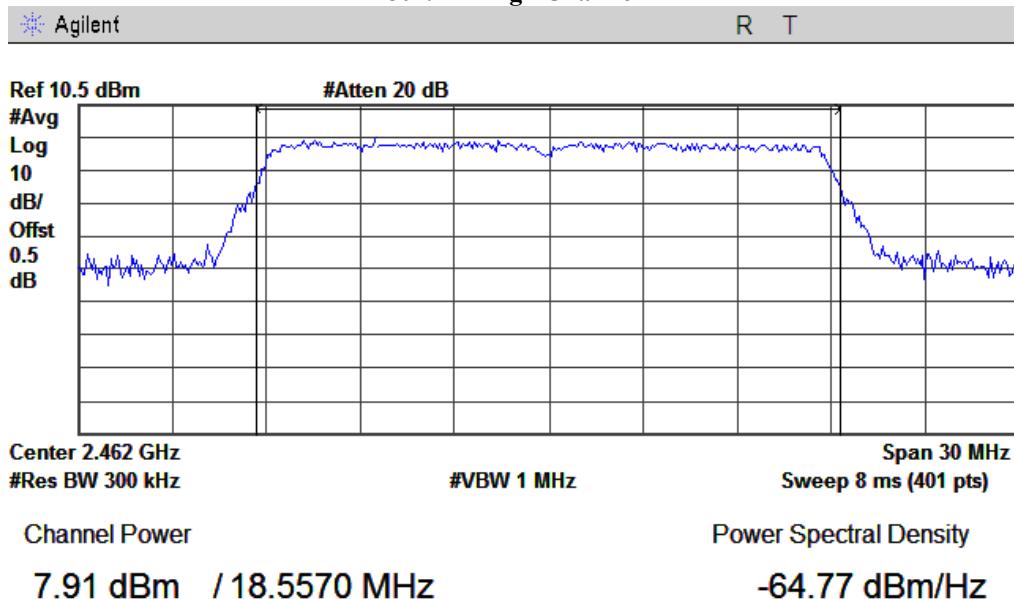
802.11n Low Channel



802.11n Middle Channel



802.11n High Channel



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Title: RF Test Report for GSM Mobile Phone
Main Model: A5
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5.5 §15.247(e) - Power Spectral Density

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. Environmental Conditions

Temperature	24°C
Relative Humidity	50%
Atmospheric Pressure	1012mbar

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 $\pm 1.5\text{dB}$.

4. Test date :November 25, 2013

Tested By : Kahn Yang

Requirement(s):

A conducted power spectral density (PSD) limit of 8 dBm in any 3 kHz band segment within the DTS bandwidth is specified during any time interval of continuous transmission.⁴ By rule, the same method as used to determine the conducted output power shall be used to determine the power spectral density (i.e., if maximum peak conducted output power was measured then the peak PSD procedure shall be used and if maximum conducted output power was measured then the average PSD procedure shall be used).

If the average PSD is measured with a power averaging (RMS) detector or a sample detector, then the spectrum analyzer must be capable of utilizing a number of measurement points in each sweep that is greater than or equal to twice the span/RBW in order to ensure bin-to-bin spacing of $\leq \text{RBW}/2$ so that narrowband signals are not lost between frequency bins.

Procedures:

This procedure must be used if maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit, and is optional if the maximum (average) conducted output power was used to demonstrate compliance.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW ≥ 3 kHz.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Test Result: Pass.

Note: The following test dates please refer to report 13070559-CE-R4.

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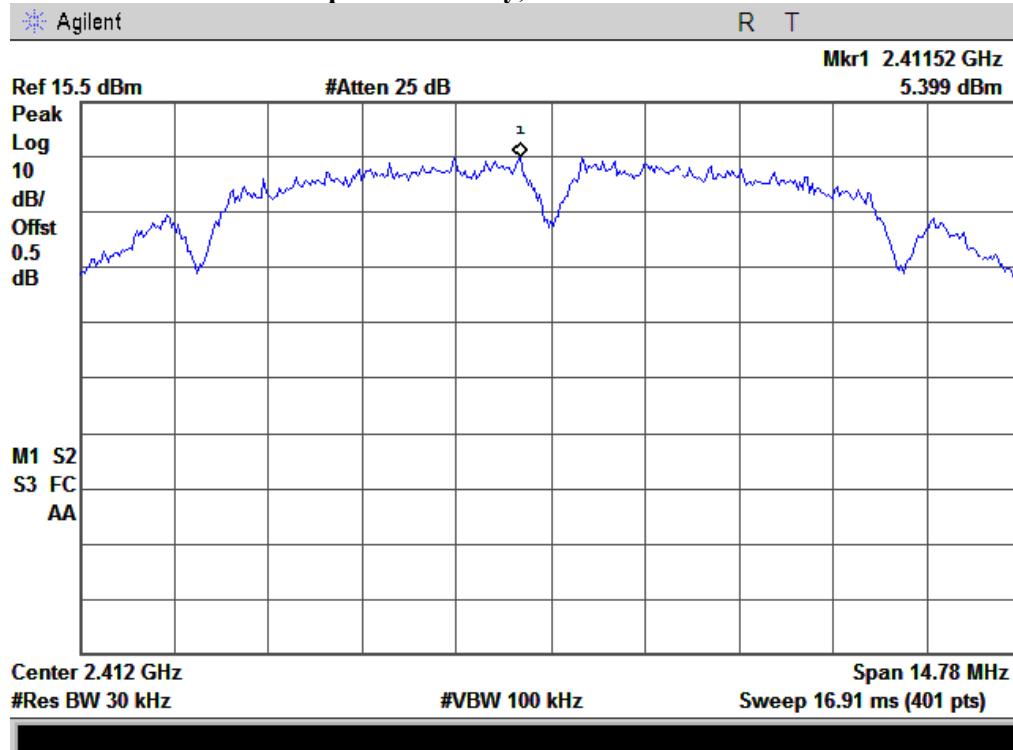
Title: RF Test Report for GSM Mobile Phone
Main Model: A5
Serial Model: N/A
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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Please refer to the following tables and plots.

Channel	Frequency (MHz)	Data Rate	PSD (dBm)	Limit (dBm)
802.11b mode				
Low	2412	1	5.399	8
Middle	2437	1	4.661	8
High	2462	1	5.794	8
802.11g mode				
Low	2412	6	-2.576	8
Middle	2437	6	-0.392	8
High	2462	6	-2.075	8
802.11n mode				
Low	2412	MCS0	-1.902	8
Middle	2437	MCS0	0.270	8
High	2462	MCS0	-1.674	8

Power Spectral Density, 802.11b Low Channel





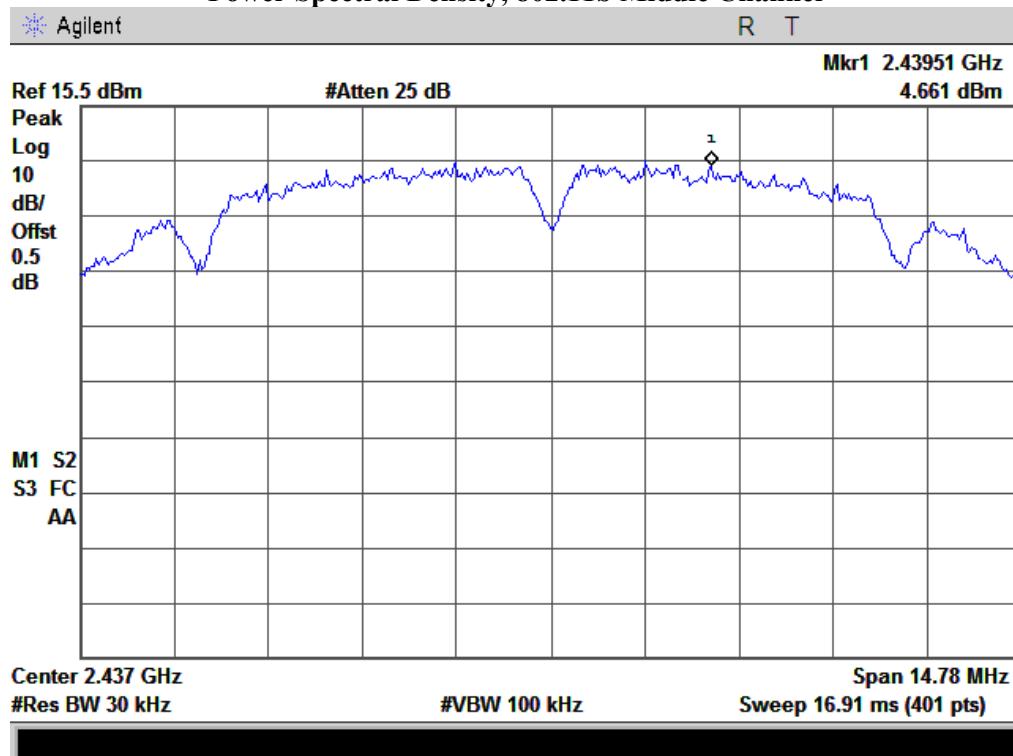
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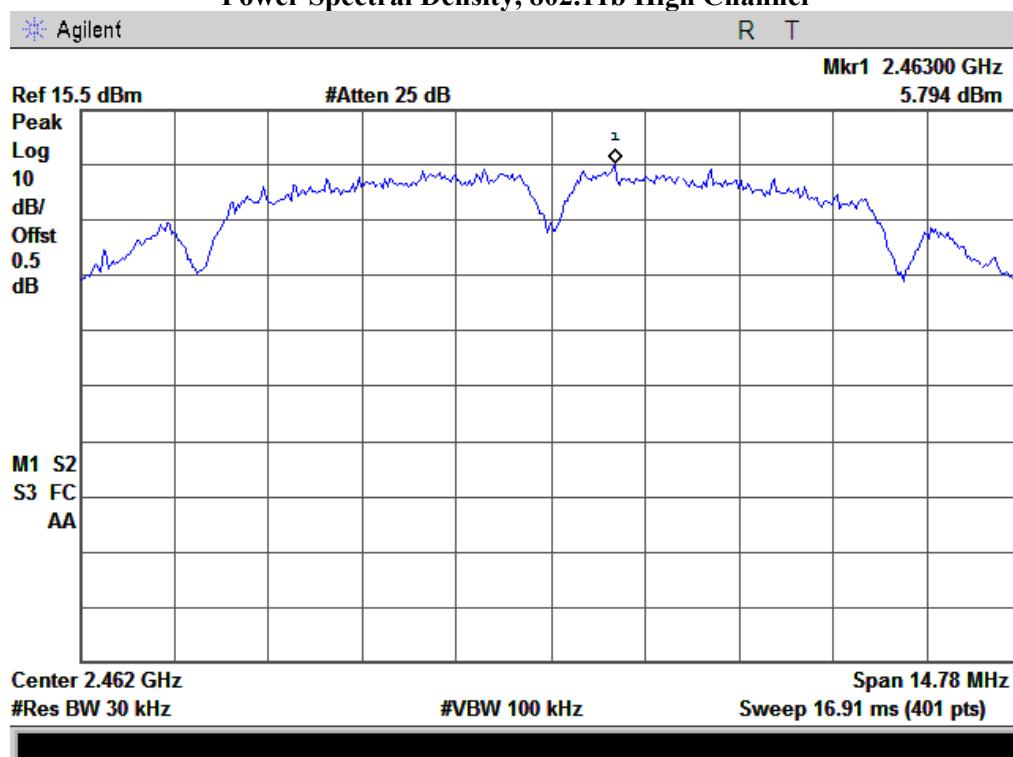
Title: RF Test Report for GSM Mobile Phone
Main Model: A5
Serial Model: N/A
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Power Spectral Density, 802.11b Middle Channel



Power Spectral Density, 802.11b High Channel





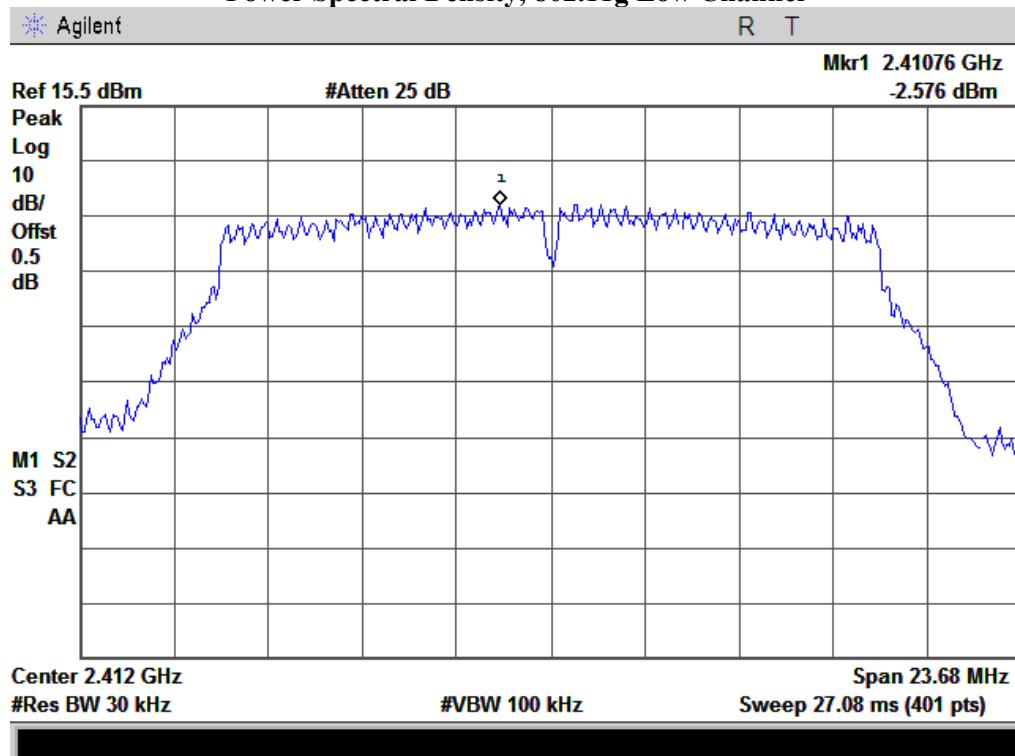
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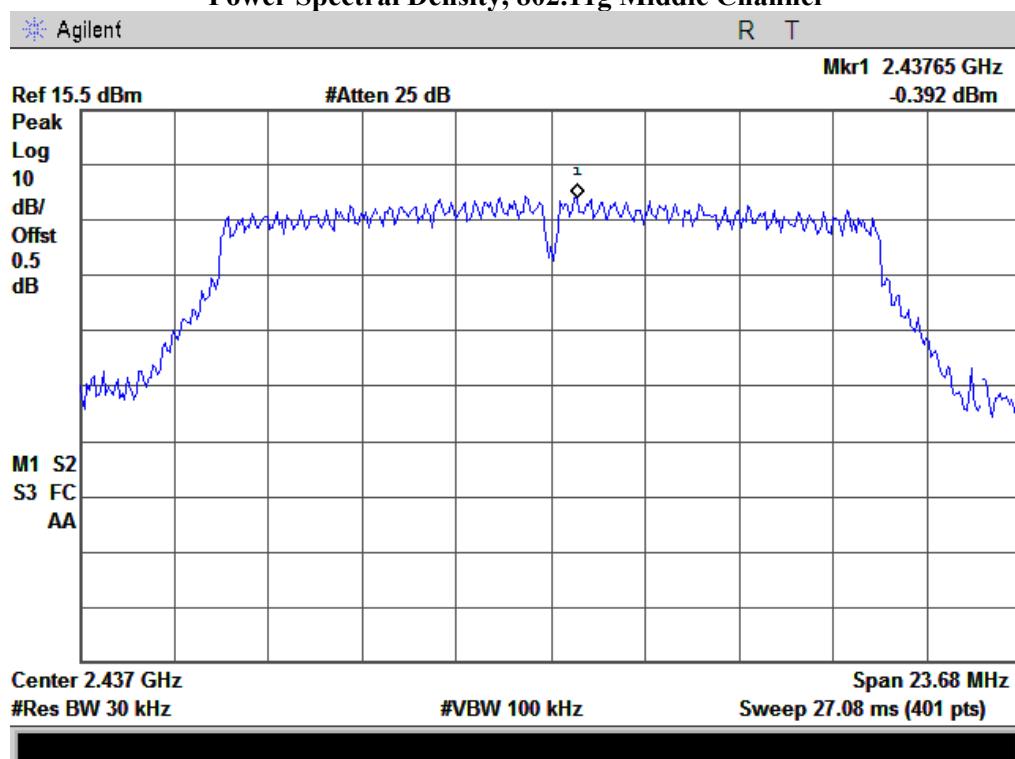
Title: RF Test Report for GSM Mobile Phone
Main Model: A5
Serial Model: N/A
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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Power Spectral Density, 802.11g Low Channel



Power Spectral Density, 802.11g Middle Channel



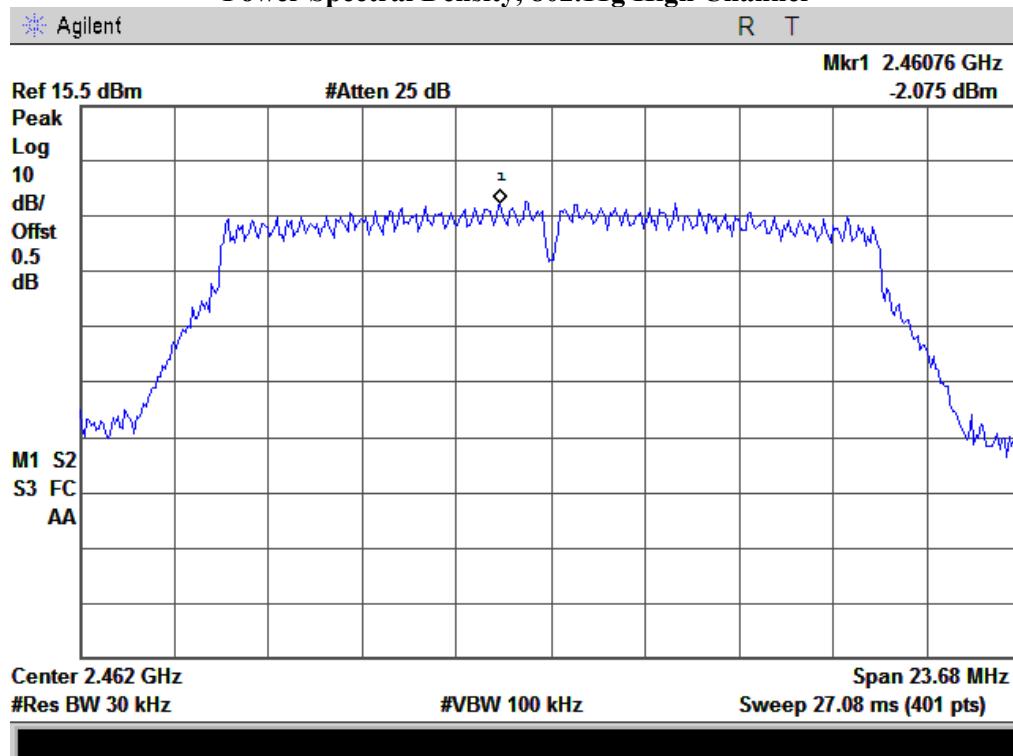
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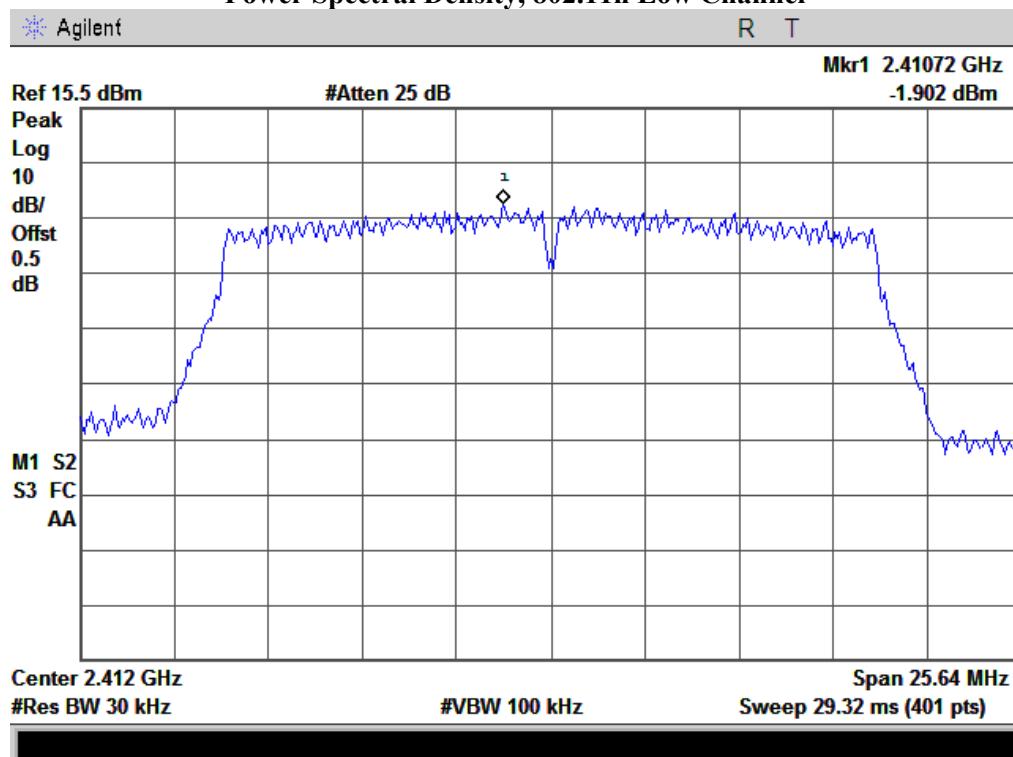
Title: RF Test Report for GSM Mobile Phone
Main Model: A5
Serial Model: N/A
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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Power Spectral Density, 802.11g High Channel



Power Spectral Density, 802.11n Low Channel



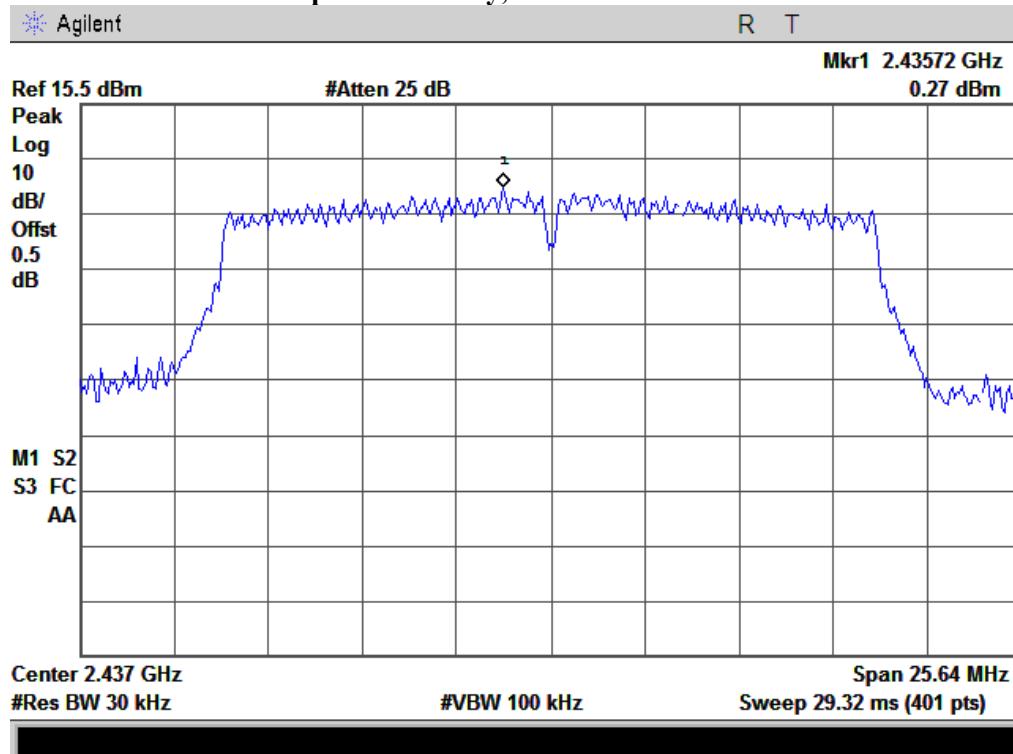
**SIEMIC, INC.**

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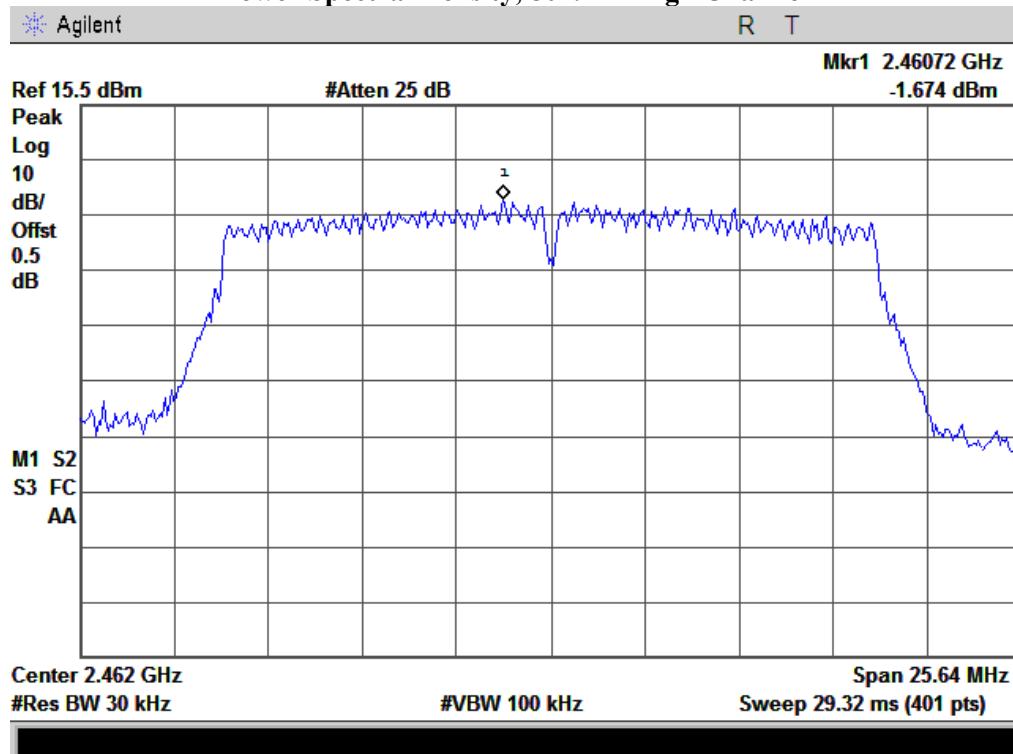
Title: RF Test Report for GSM Mobile Phone
Main Model: A5
Serial Model: N/A
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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Power Spectral Density, 802.11n Middle Channel



Power Spectral Density, 802.11n High Channel



5.6 §15.247(d) –Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands

1. In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))
2. Environmental Conditions

Temperature	21 °C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
3. Test date : November 27, 2013
 Tested By : Kahn Yang

Requirement(s):

Band-Edge Measurements

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

Procedures: (Radiated Method Only)

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT on the rotated table inside the anechoic chamber without connection to measurement instrument. Turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range. Repeat above procedures until all measured frequencies were complete.
3. Set band RBW=1MHz, VBW=3MHz with a convenient frequency span from band edge.
4. Find the highest point in edge frequency, and then calculated results.
5. Repeat above procedures until all measured frequencies were complete.

Test Result: Pass.

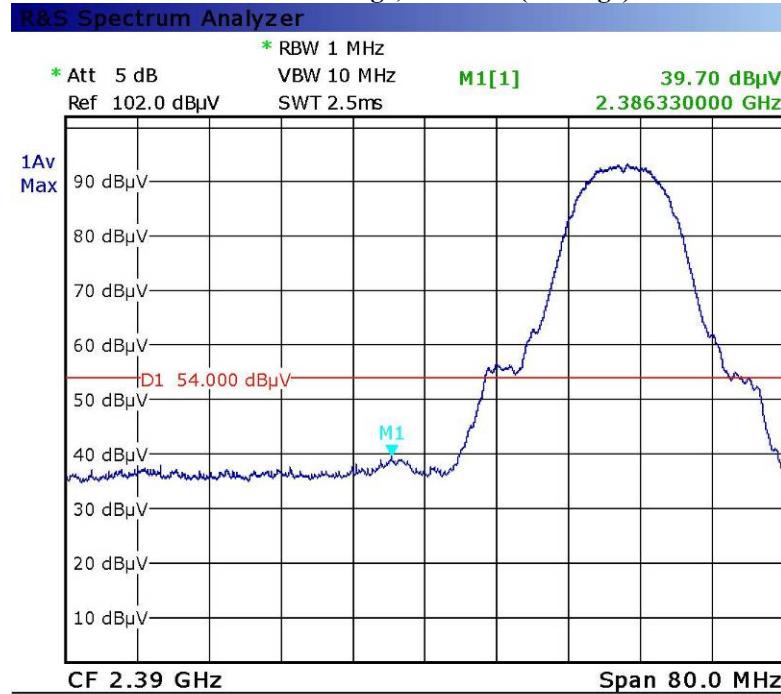
Please refer to the following tables and plots.

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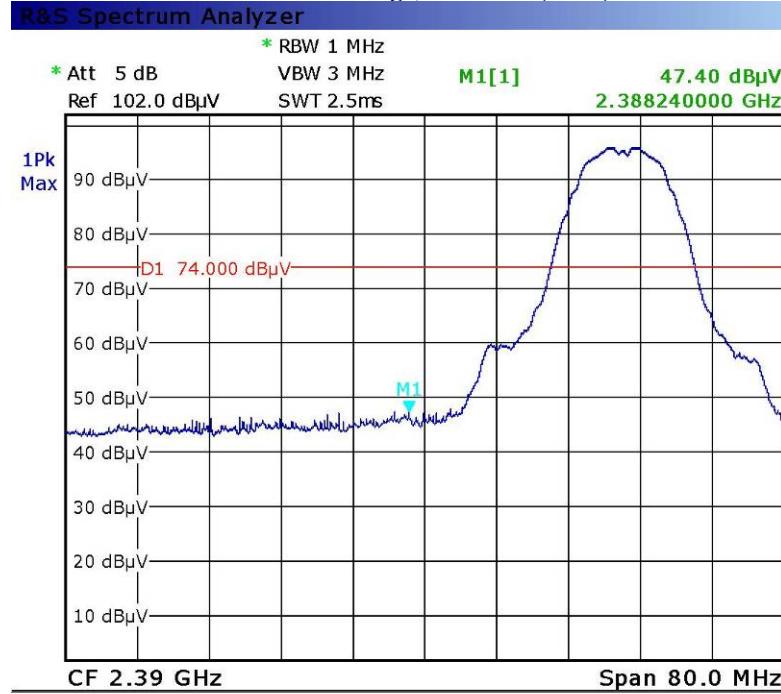
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Title: RF Test Report for GSM Mobile Phone
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802.11b: Band Edge, Left Side (Average)

Date: 25.NOV.2013 03:06:57

802.11b: Band Edge, Left Side (Peak)

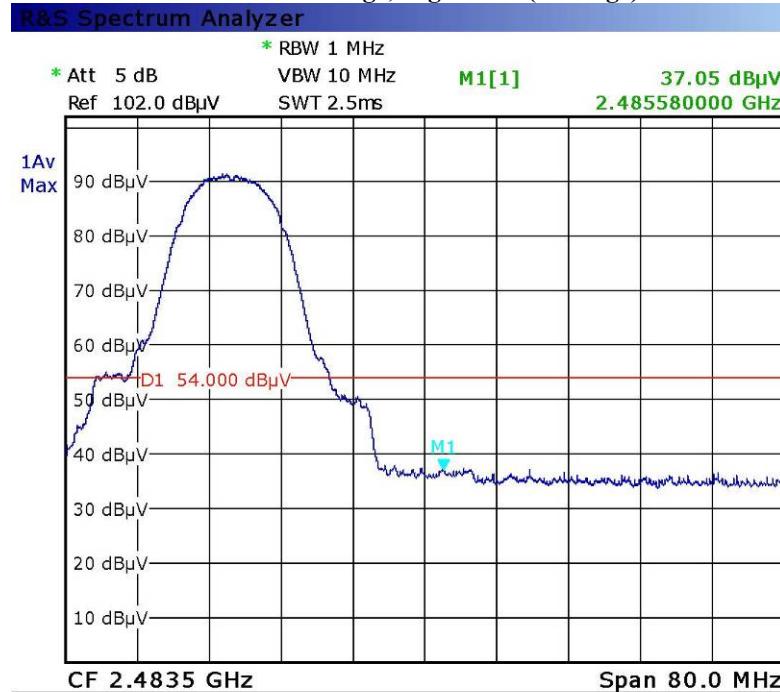
Date: 25.NOV.2013 03:04:19

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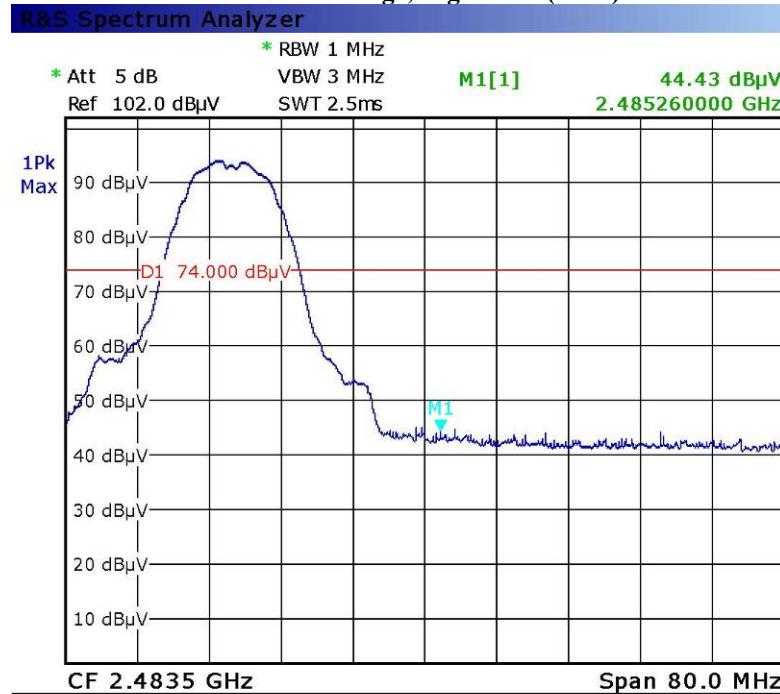
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Main Model: A5
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802.11b: Band Edge, Right Side (Average)

Date: 25.NOV.2013 03:25:30

802.11b: Band Edge, Right Side (Peak)

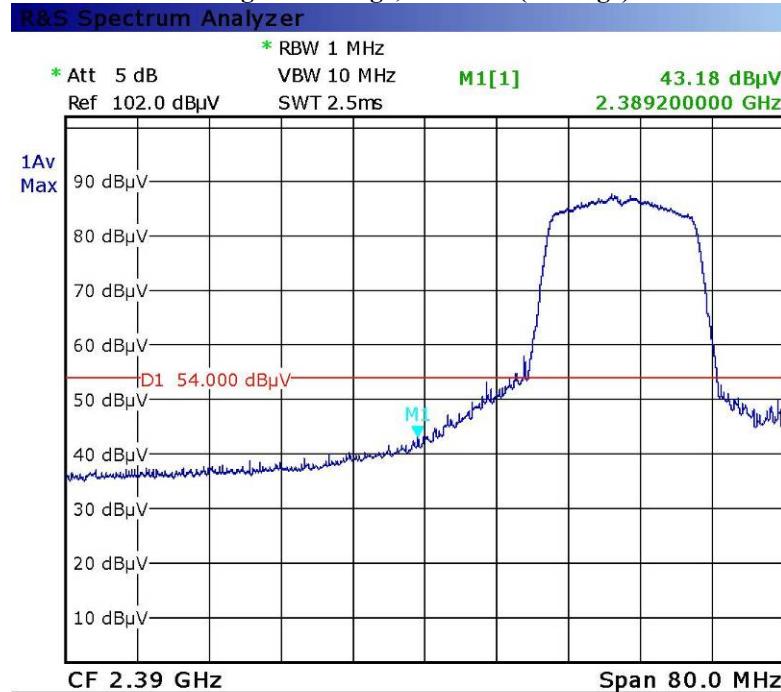
Date: 25.NOV.2013 03:26:31

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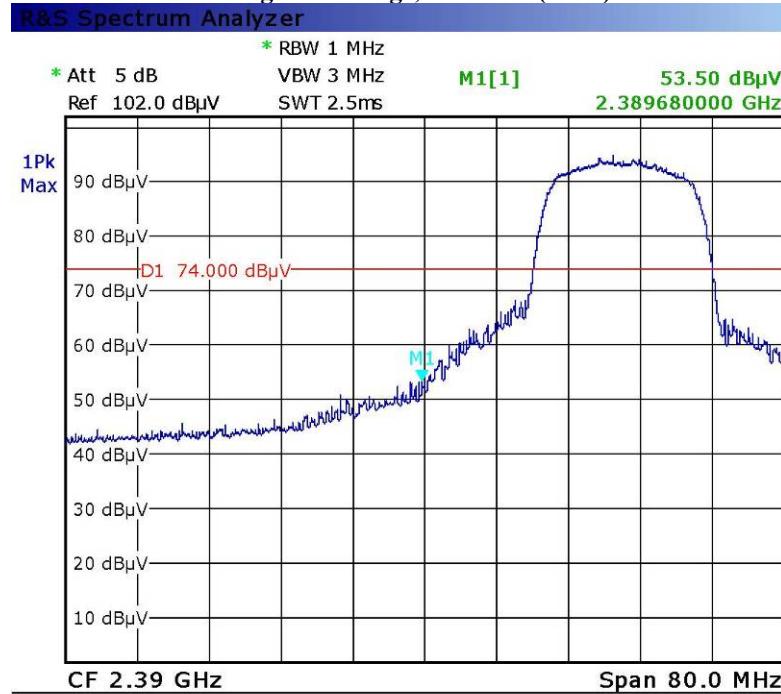
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Title: RF Test Report for GSM Mobile Phone
Main Model: A5
Serial Model: N/A
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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802.11g: Band Edge, Left Side (Average)

Date: 25.NOV.2013 03:09:13

802.11g: Band Edge, Left Side (Peak)

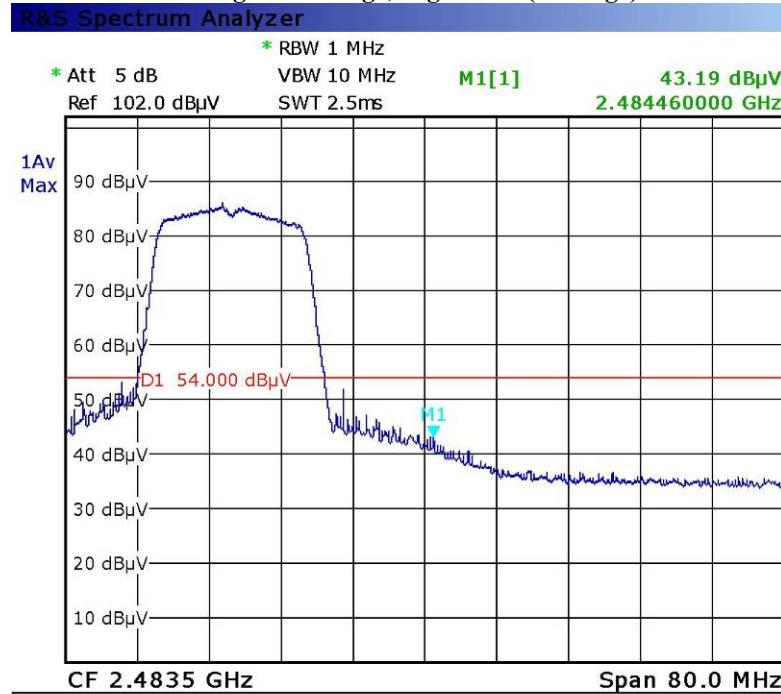
Date: 25.NOV.2013 03:10:37

**SIEMIC, INC.**

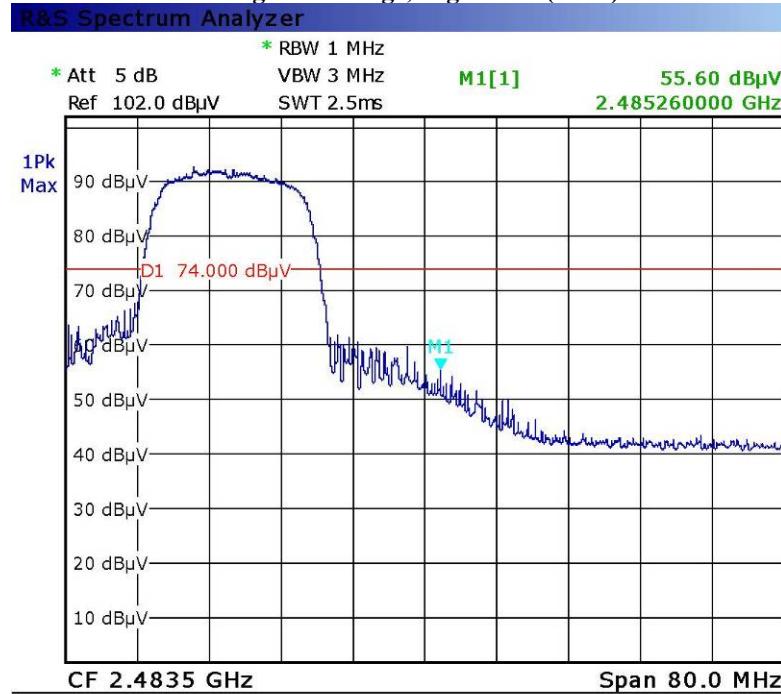
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Title: RF Test Report for GSM Mobile Phone
Main Model: A5
Serial Model: N/A
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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802.11g: Band Edge, Right Side (Average)

Date: 25.NOV.2013 03:23:34

802.11g: Band Edge, Right Side (Peak)

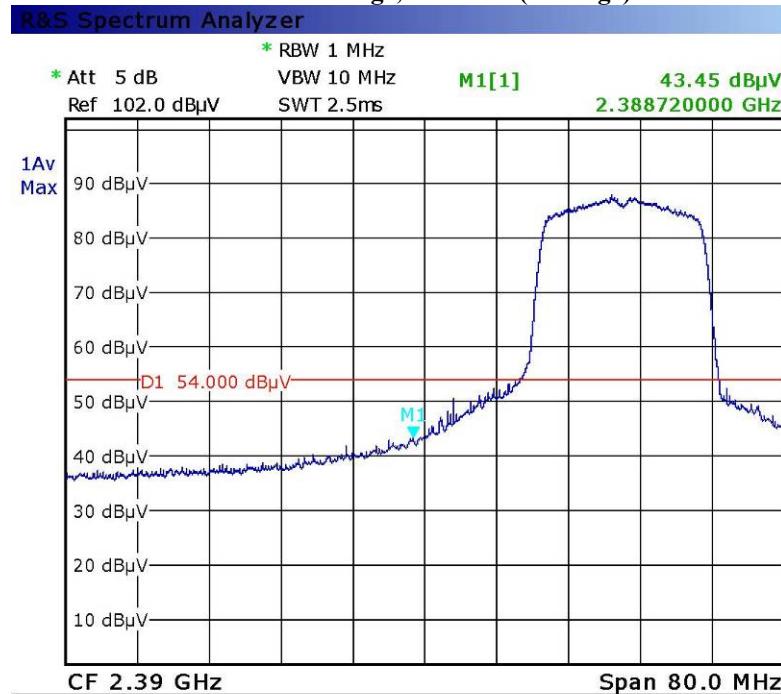
Date: 25.NOV.2013 03:22:35

**SIEMIC, INC.**

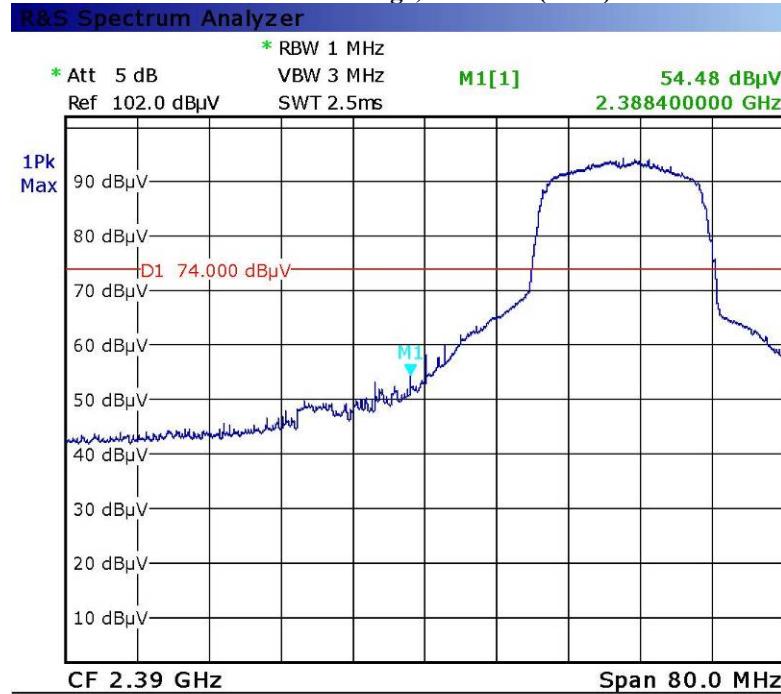
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Title: RF Test Report for GSM Mobile Phone
Main Model: A5
Serial Model: N/A
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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802.11n: Band Edge, Left Side (Average)

Date: 25.NOV.2013 03:14:22

802.11n: Band Edge, Left Side (Peak)

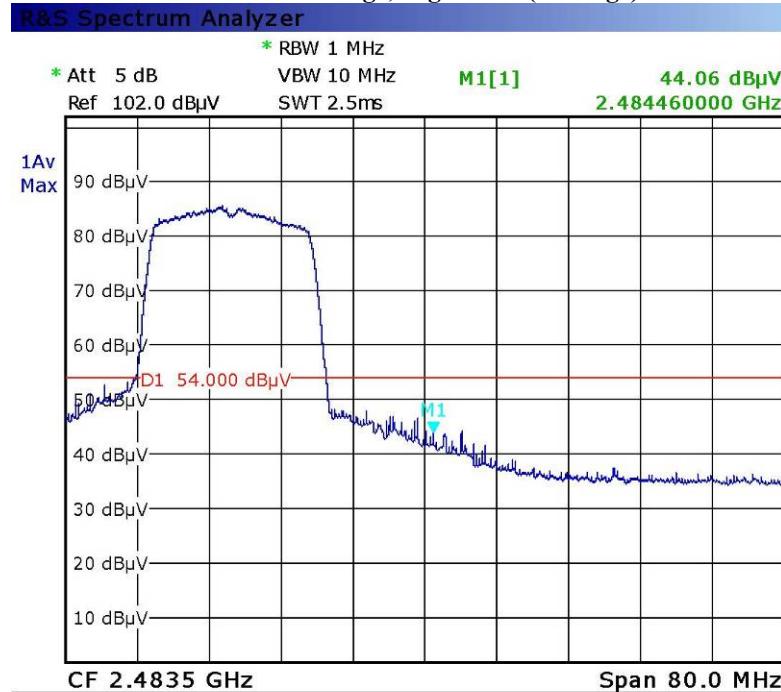
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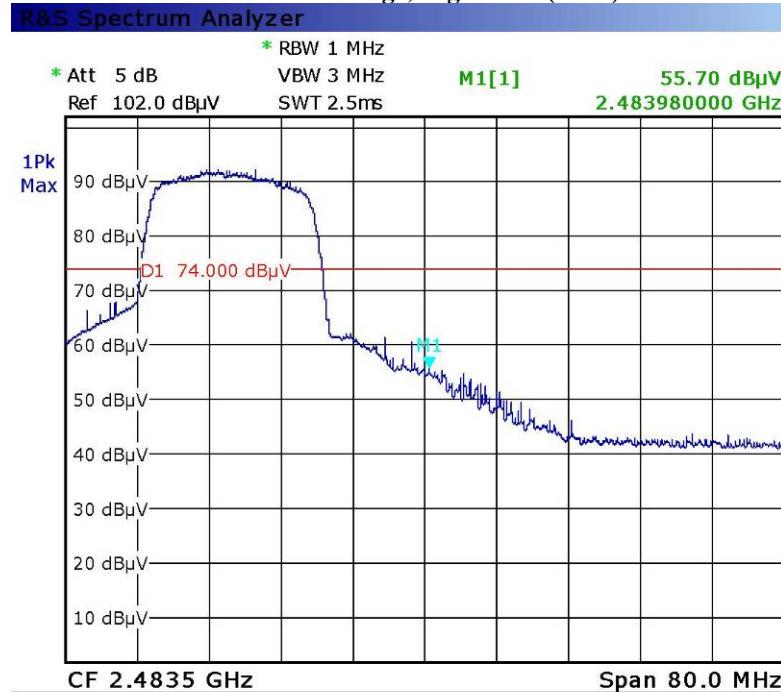
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Title: RF Test Report for GSM Mobile Phone
Main Model: A5
Serial Model: N/A
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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802.11n: Band Edge, Right Side (Average)

Date: 25.NOV.2013 03:17:53

802.11n: Band Edge, Right Side (Peak)

Date: 25.NOV.2013 03:20:56

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Title: RF Test Report for GSM Mobile Phone
Main Model: A5
Serial Model: N/A
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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5.7 §15.207 (a) - AC Power Line Conducted Emissions

Requirement:

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50

*Decreases with the logarithm of the frequency.

Procedures:

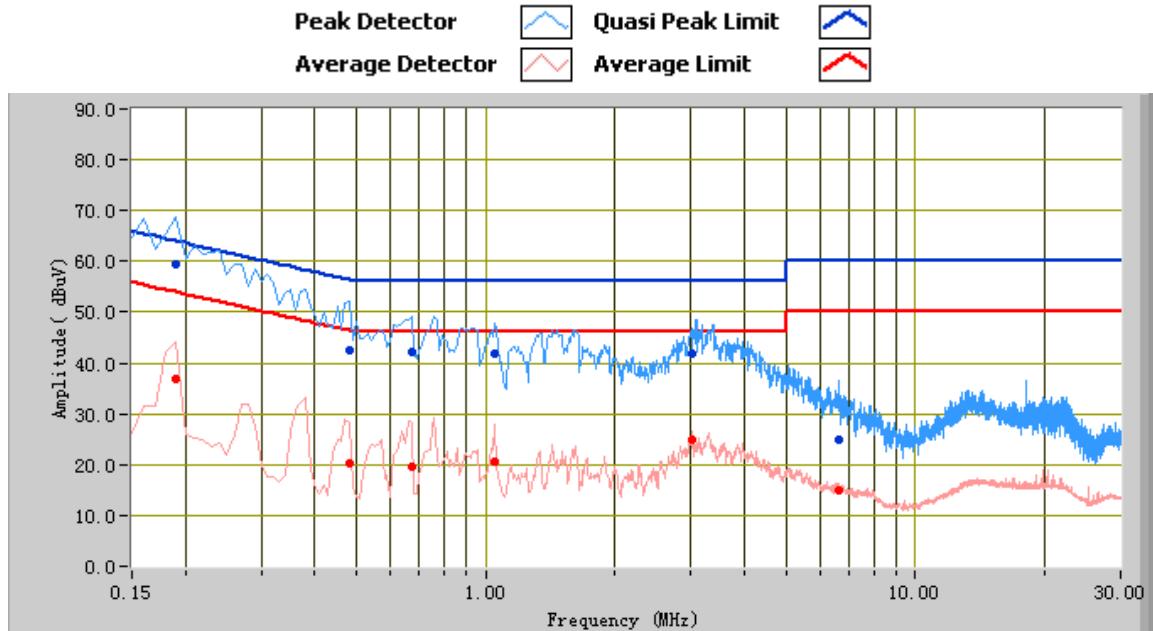
1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR and Average detectors, are reported. All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
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 9kHz – 30MHz (Average & Quasi-peak) is ± 3.5 dB.
4. Environmental Conditions Temperature 22°C
 Relative Humidity 50%
 Atmospheric Pressure 1019mbar
5. Test date: November 29, 2013
Tested By : Kahn Yang

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Title: RF Test Report for GSM Mobile Phone
Main Model: A5
Serial Model: N/A
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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Test Mode:**Transmitting Mode(Worse Case)****Test Data****Phase Line Plot at 110Vac, 60Hz**

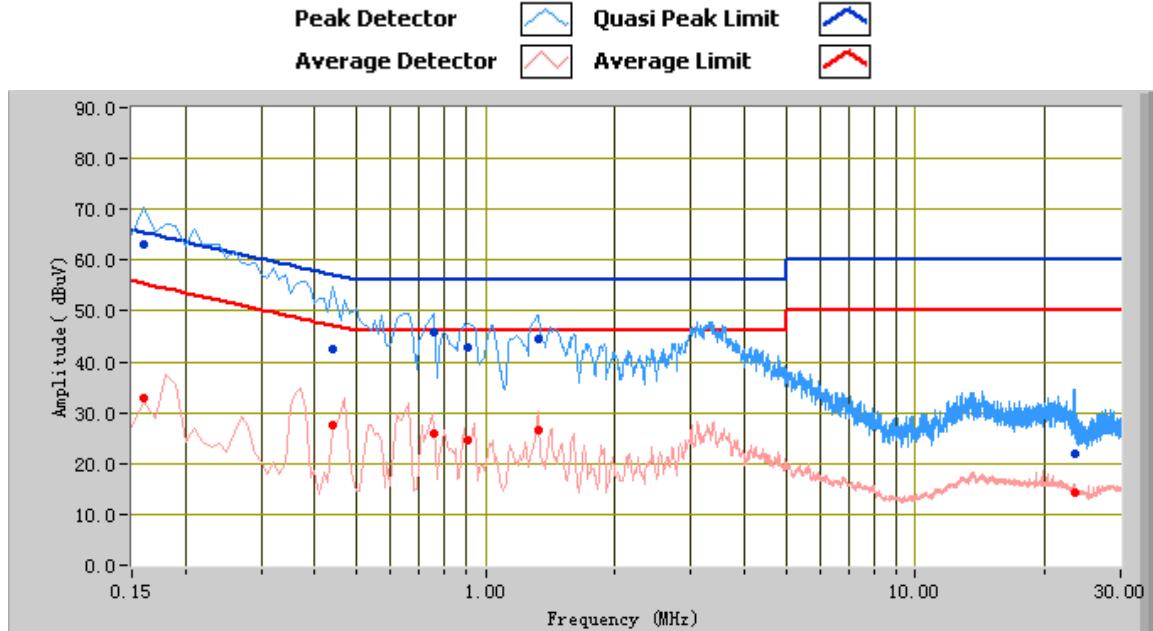
Frequency (MHz)	Quasi Peak (dBuV)	Limit (dBuV)	Margin (dB)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Factors (dB)
6.62	24.83	60.00	-35.17	14.94	50.00	-35.06	10.19
0.19	59.39	64.04	-4.65	36.98	54.04	-17.06	10.10
0.48	42.52	56.34	-13.82	20.42	46.34	-25.92	10.10
0.67	42.14	56.00	-13.86	19.62	46.00	-26.38	10.10
1.05	41.78	56.00	-14.22	20.57	46.00	-25.43	10.10
3.02	42.00	56.00	-14.00	25.02	46.00	-20.98	10.14

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Test Mode:**Transmitting Mode(Worse Case)****Test Data****Phase Neutral Plot at 110Vac, 60Hz**

Frequency (MHz)	Quasi Peak (dBuV)	Limit (dBuV)	Margin (dB)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Factors (dB)
23.42	21.87	60.00	-38.13	14.35	50.00	-35.65	10.23
0.16	63.05	65.47	-2.42	32.81	55.47	-22.66	10.10
0.44	42.36	57.06	-14.70	27.68	47.06	-19.38	10.10
0.76	45.74	56.00	-10.26	25.98	46.00	-20.02	10.10
1.33	44.60	56.00	-11.40	26.64	46.00	-19.36	10.10
0.91	42.72	56.00	-13.28	24.43	46.00	-21.57	10.10

5.8 §15.209, §15.205 & §15.247(d) - Radiated Spurious Emissions & Unwanted Emissions into Restricted Frequency Bands

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.
2. 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 30MHz – 1GHz & 1GHz above (3m & 10m) is +/-6dB.
4. Environmental Conditions Temperature 22°C
 Relative Humidity 50%
 Atmospheric Pressure 1019mbar
5. Test date : November 29, 2013
Tested By : Kahn Yang

Requirement: §15.247(d) specifies that emissions which fall in the restricted bands, as defined in §15.205(a), must comply with the radiated emission limits specified in §15.209(a).

Procedures:

Radiated Spurious Emissions Measurement

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Established procedures for performing radiated measurements shall be used (see C63.10). All detected emissions must comply with the applicable limits.

Measurement Detectors

§15.35(a) specifies that on frequencies less than and below 1000 MHz, the radiated emissions limits assume the use of a CISPR quasi-peak detector function and related measurement bandwidths. §15.35(b) specifies that on frequencies above 1000 MHz, the radiated emissions limits assume the use of an average detector and a minimum resolution bandwidth of 1 MHz. In addition, §15.35(b) that when average radiated emissions measurements are specified there is also a limit on the peak emissions level which is 20 dB above the applicable maximum permitted average emission limit. These specifications also apply to conducted emissions measurements.

1. CISPR Quasi-Peak Measurement

The specifications for the measuring instrument using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electrotechnical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission limits using a peak detector.

2. Peak Power Measurement Procedure

Utilize the peak power measurement procedure specified in Section 8.1.1 with the following modifications:

Set analyzer center frequency to the frequency associated with the restricted band emission under examination.

Set RBW = 1 MHz.

Note that if the peak measured value complies with the average limit, it is not necessary to perform a separate average measurement. If this option is exercised, it should be so noted in the test report.

3. Average Power Measurement Procedures

The average restricted band emission levels must be measured with the EUT transmitting continuously ($\geq 98\%$ duty cycle) at its maximum power control level. Optionally, video triggering/signal gating can be used to ensure that measurements are performed only when the EUT is transmitting at its maximum power control level.

The average power measurement procedures described in Section 8.2 shall be used with the following modifications:

Set analyzer center frequency to the frequency associated with the restricted band emission.

Set span to at least 1 MHz.

Use peak marker function to determine the highest amplitude within the RBW (1 MHz).

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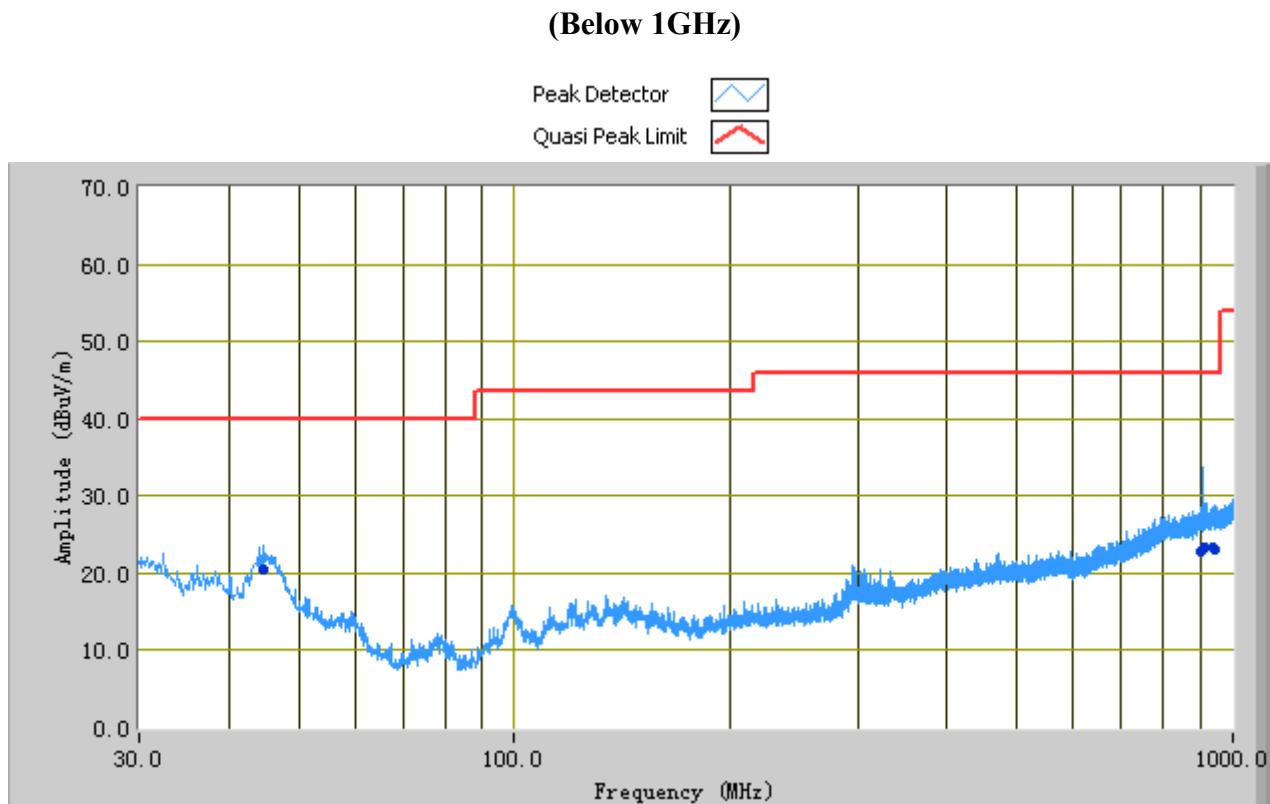
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Test Result: Pass

Test Mode:	Transmitting Mode(Worse Case)
-------------------	--------------------------------------

**Test Data****Vertical & Horizontal Polarity Plot @3m**

Frequency (MHz)	Quasi Peak (dBuV/m)	Azimuth	Polarity(H/V)	Height (cm)	Factors (dB)	Limit (dBuV)	Margin (dB)
906.15	23.06	0.00	V	254.00	4.87	46.00	-22.94
44.60	20.57	50.00	V	100.00	-11.12	40.00	-19.43
913.86	23.30	231.00	V	307.00	4.99	46.00	-22.70
945.39	23.16	81.00	V	149.00	5.49	46.00	-22.84
899.59	22.71	108.00	H	124.00	4.76	46.00	-23.29
937.87	23.26	326.00	V	176.00	5.37	46.00	-22.74

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Above 1 GHz:**Test Mode: Transmitting****Note: Other modes were verified, only the result of worst case basic rate mode was presented.****Mode: 802.11b**

Low Channel (2412 MHz)

Frequency (MHz)	Substituted level (dB μ V/m)	Detector (PK/AV)	Direction (degree)	Height (m)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
4824	37.78	AV	318	1.4	V	33.83	1.03	24	46.58	54	-7.42
4824	38.401	AV	60	1.4	H	33.83	1.03	24	47.2	54	-6.8
4824	42.71	PK	318	1.4	V	33.83	1.03	24	51.51	74	-22.49
4824	42.72	PK	60	1.4	H	33.83	1.03	24	51.52	74	-22.48
1510	35.10	AV	48	1.5	V	25.72	0.64	24	36.18	54	-17.82
1510	34.92	AV	169	1.5	H	25.72	0.64	24	36	54	-18
1510	45.11	PK	48	1.5	V	25.72	0.64	24	46.19	74	-27.81
1510	45.14	PK	169	1.5	H	25.72	0.64	24	46.22	74	-27.78

Middle Channel (2437 MHz)

Frequency (MHz)	Substituted level (dB μ V/m)	Detector (PK/AV)	Direction (degree)	Height (m)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
4874	36.97	AV	314	1.4	V	33.83	1.03	24	45.77	54	-8.23
4874	38.41	AV	62	1.4	H	33.83	1.03	24	47.21	54	-6.79
4874	43.02	PK	314	1.4	V	33.83	1.03	24	51.82	74	-22.18
4874	43.98	PK	62	1.4	H	33.83	1.03	24	52.78	74	-21.22
1510	34.93	AV	44	1.5	V	25.72	0.64	24	36.01	54	-17.99
1510	35.02	AV	168	1.5	H	25.72	0.64	24	36.1	54	-17.9
1510	44.38	PK	44	1.5	V	25.72	0.64	24	45.46	74	-28.54
1510	44.65	PK	168	1.5	H	25.72	0.64	24	45.73	74	-28.27

High Channel (2462 MHz)

Frequency (MHz)	Substituted level (dB μ V/m)	Detector (PK/AV)	Direction (degree)	Height (m)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
4924	36.66	AV	317	1.4	V	33.83	1.03	24	45.46	54	-8.54
4924	38.39	AV	65	1.4	H	33.83	1.03	24	47.19	54	-6.81
4924	43.27	PK	317	1.4	V	33.83	1.03	24	52.07	74	-21.93
4924	44.08	PK	65	1.4	H	33.83	1.03	24	52.88	74	-21.12
1510	33.58	AV	41	1.5	V	25.72	0.64	24	34.66	54	-19.34
1510	34.97	AV	166	1.5	H	25.72	0.64	24	36.05	54	-17.95
1510	45.00	PK	41	1.5	V	25.72	0.64	24	46.08	74	-27.92
1510	46.01	PK	166	1.5	H	25.72	0.64	24	47.09	74	-26.91

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Annex A. TEST INSTRUMENT & METHOD

Annex A. i. TEST INSTRUMENTATION & GENERAL PROCEDURES

Instrument	Model	Serial #	Calibration Date	Calibration Due Date
AC Line Conducted Emissions				
EMI test receiver	ESL6	100262	11/19/2013	11/19/2014
Line Impedance Stabilization Network	LI-125A	191106	11/14/2013	11/13/2014
Line Impedance Stabilization Network	LI-125A	191107	11/14/2013	11/13/2014
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	071259	11/20/2013	11/19/2014
Transient Limiter	LIT-153	531118	3/03/2013	3/02/2014
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
Temperature/Humidity Chamber	1007H	N/A	01/07/2013	01/06/2014
DC Power Supply	E3640A	MY4000401 3	03/22/2013	03/21/2014
Radiated Emissions				
EMI test receiver	ESL6	100262	11/19/2013	11/18/2014
Positioning Controller	UC3000	MF78020828 2	11/19/2013	11/18/2014
OPT 010 AMPLIFIER(0.1-1300MHz)	8447E	2727A02430	11/19/2013	11/18/2014
Microwave Preamplifier(0.5~18GHz)	PAM-118	443008	11/08/2013	11/07/2014
Bilog Antenna (30MHz~6GHz)	JB6	A110712	01/27/2013	01/26/2014
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	071283	11/20/2013	11/19/2014

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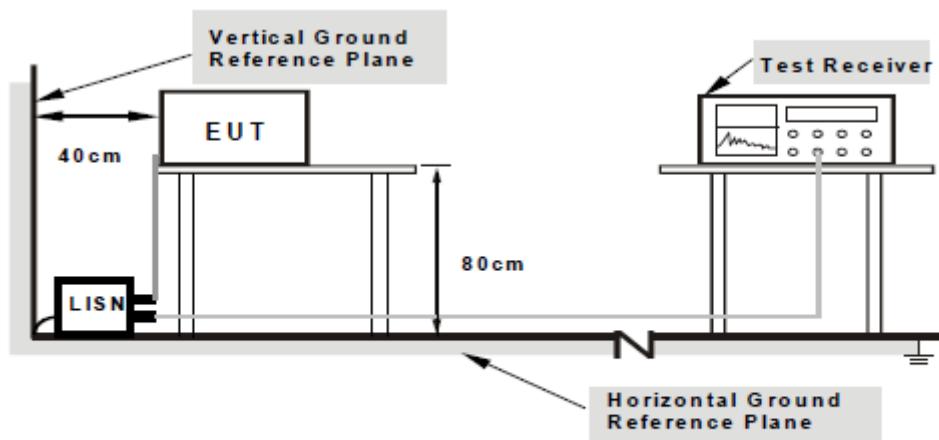
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Annex A. ii. CONDUCTED EMISSIONS TEST DESCRIPTION

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 1m x 0.8m high, non-metallic table, as shown in [Annex B](#).
2. The power supply for the EUT was fed through a $50\Omega/50\mu\text{H}$ EUT LISN, connected to filtered mains.
3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.
4. All other supporting equipments were powered separately from another main supply.



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration1.

Test Method

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.
3. High peaks, relative to the limit line, were then selected.
4. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz. For FCC tests, only Quasi-peak measurements were made; while for CISPR/EN tests, both Quasi-peak and Average measurements were made.
5. Steps 2 to 4 were then repeated for the LIVE line (for AC mains) or DC line (for DC power).

Description of Conducted 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 common scan range from 150 kHz to 30 MHz; the program will first start a peak and average scan on selectable measurement time and step size. After the program complete the pre-scan, this program will perform the Quasi Peak and Average measurement, based on the pre-scan peak data reduction result.



Sample Calculation Example

At 20 MHz

$$\text{limit} = 250 \mu\text{V} = 47.96 \text{ dB}\mu\text{V}$$

Transducer factor of LISN, pulse limiter & cable loss at 20 MHz = 11.20 dB

Q-P reading obtained directly from EMI Receiver = 40.00 dB μ V
(Calibrated for system losses)

Therefore, Q-P margin = $47.96 - 40.00 = 7.96$ i.e. **7.96 dB below limit**

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Annex A. iii RADIATED EMISSIONS TEST DESCRIPTION

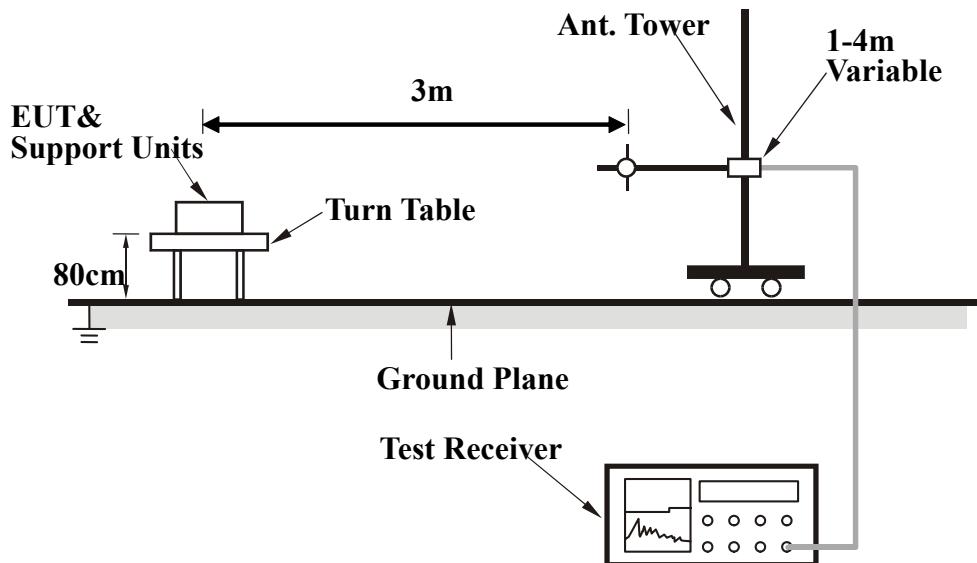
EUT Characterisation

EUT characterisation, over the frequency range from 30MHz to 10th Harmonic, 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 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).

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

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:

$$\text{Peak} = \text{Reading} + \text{Corrected Factor}$$

where

$$\text{Corr. Factor} = \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain (if any)}$$

And the average value is

$$\text{Average} = \text{Peak Value} + \text{Duty Factor} \text{ or}$$
$$\text{Set RBW} = 1\text{MHz}, \text{VBW} = 10\text{Hz}.$$

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.

Annex B. EUT AND TEST SETUP PHOTOGRAPHS

Annex B. i. Photograph 1: EUT External Photo



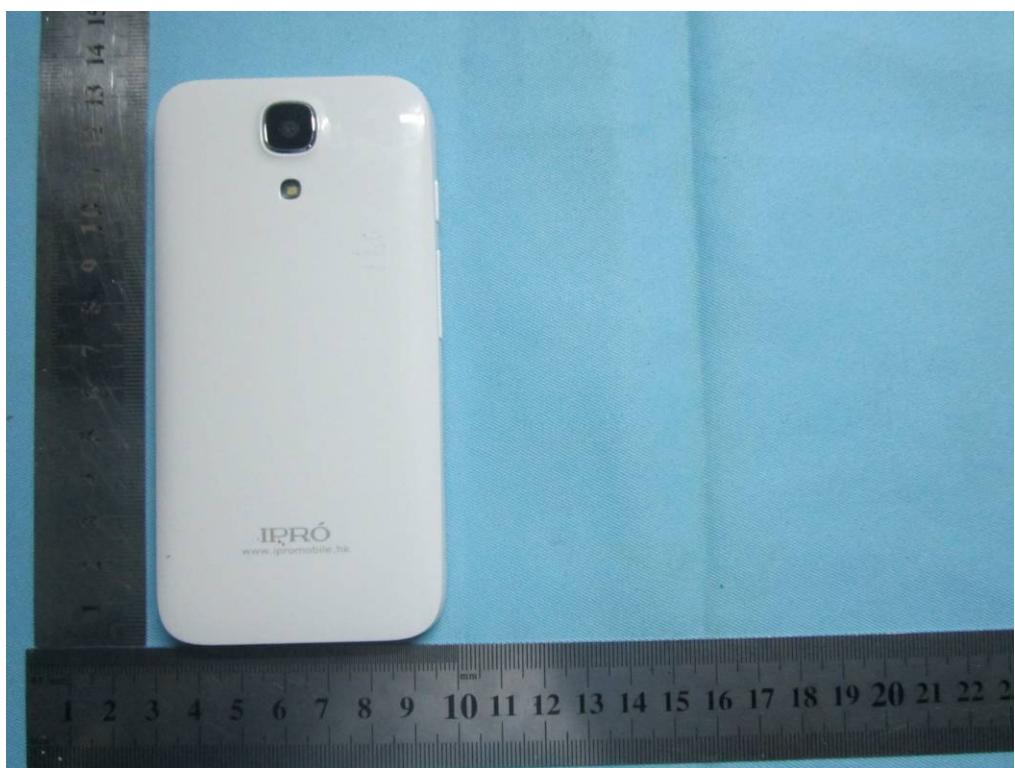
Whole Package - Top View



Adapter – Top View



EUT - Front View



EUT - Rear View



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EUT - Top View



EUT - Bottom View



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EUT - Left View



EUT - Right View

Annex B. ii. Photograph 2: EUT Internal Photo

Cover Off - Top View



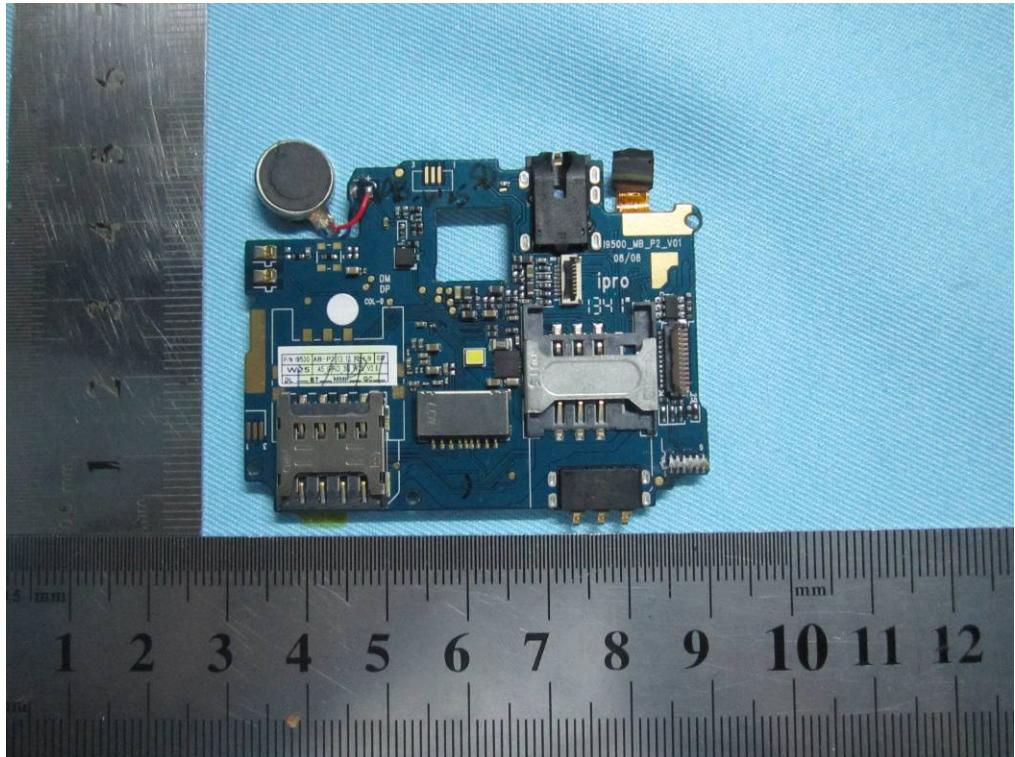
Cover Off - Rear Housing View



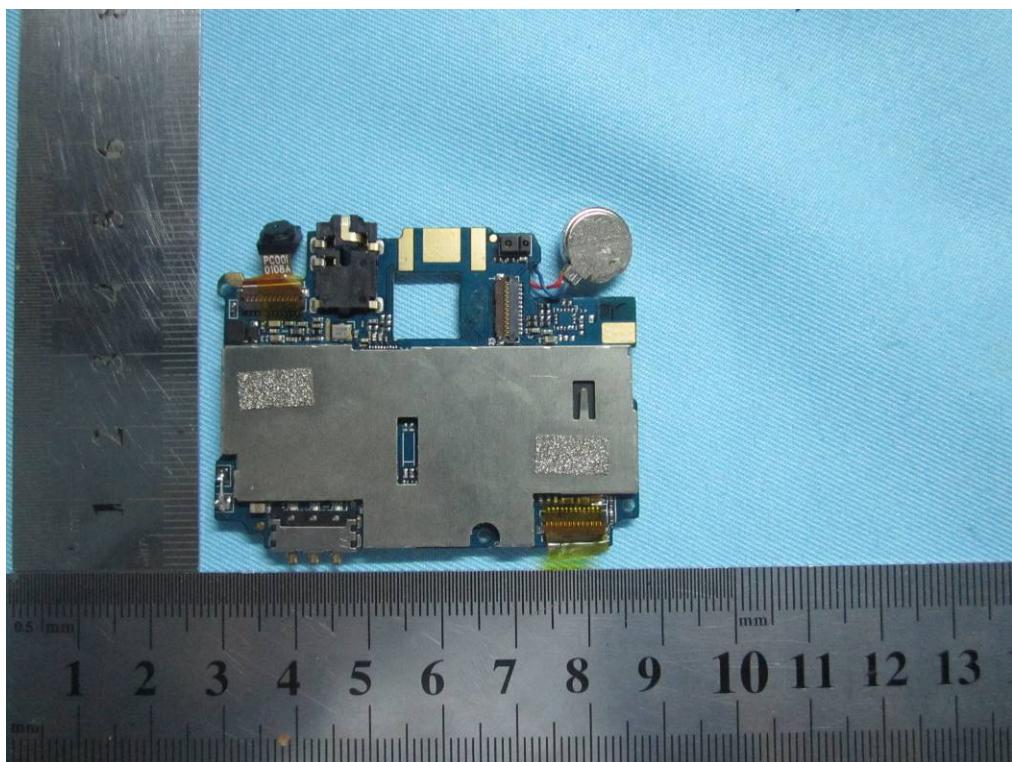
Battery - Top View



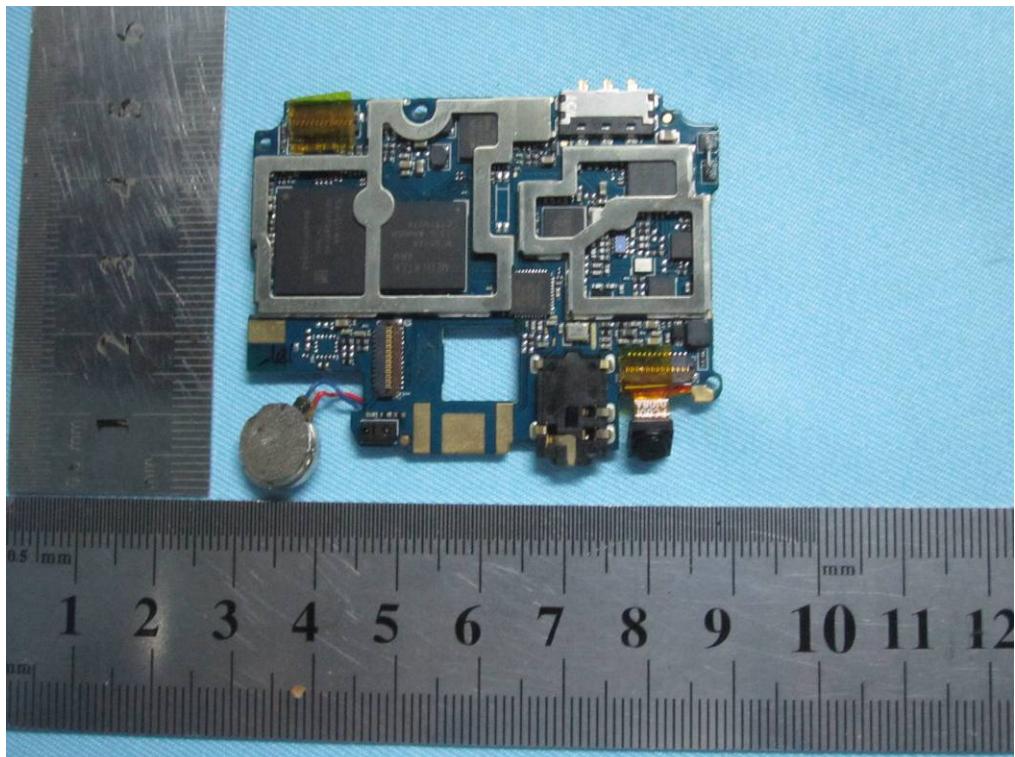
Battery - Bottom View



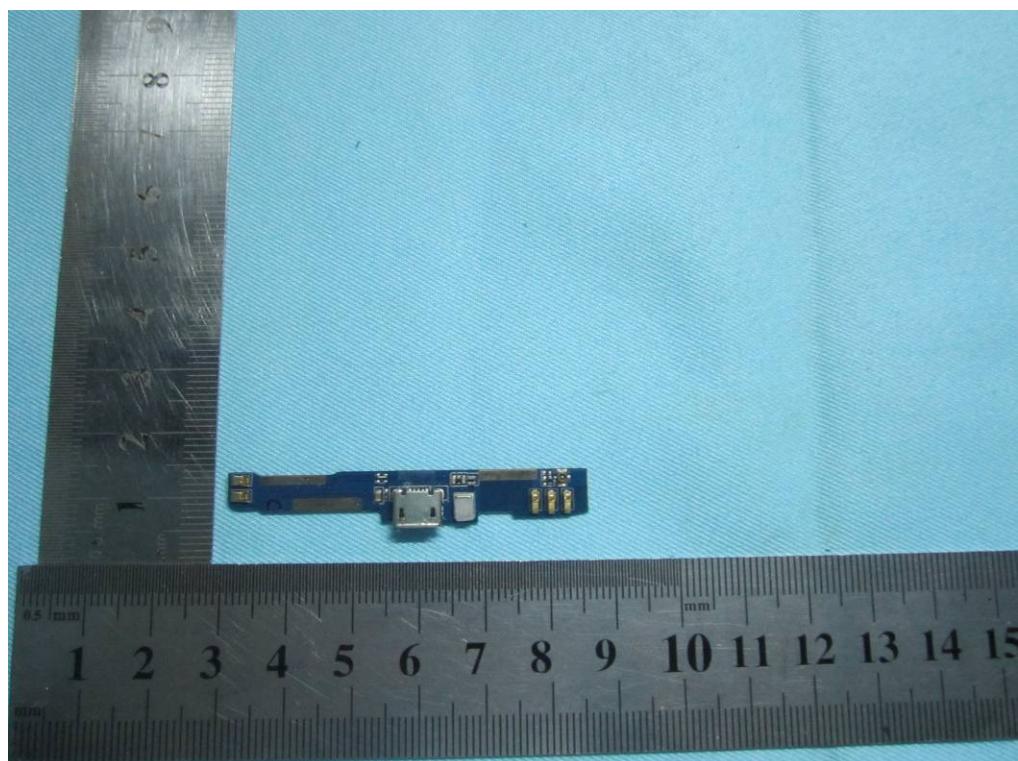
Mainborad - Top View



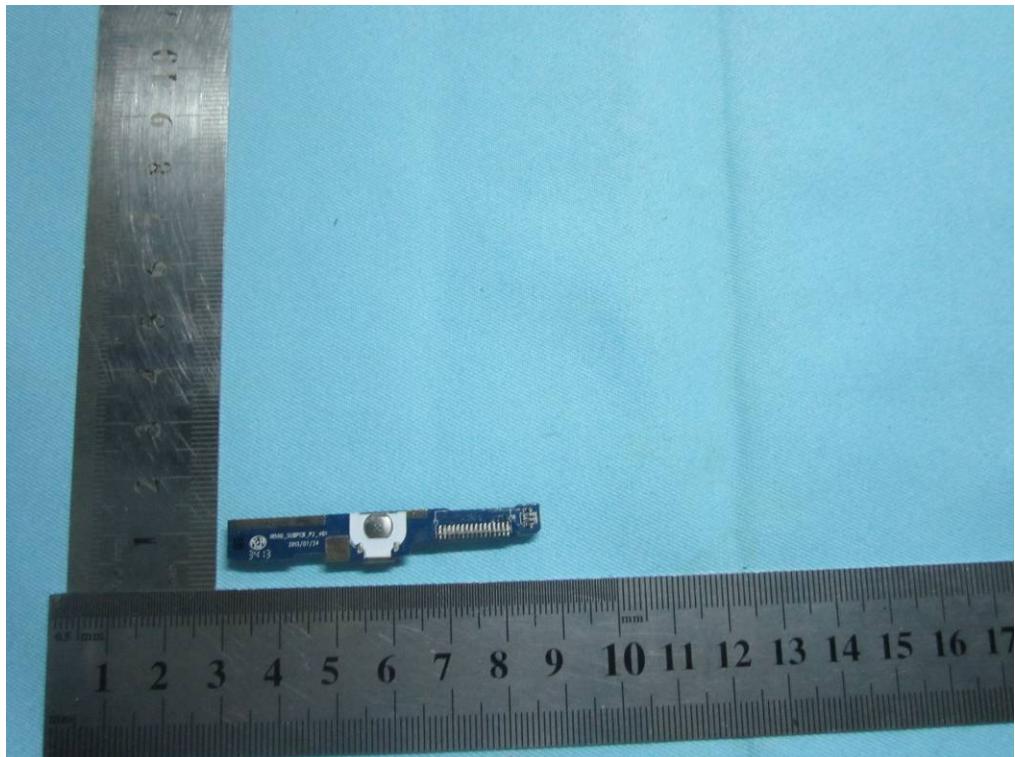
Mainborad With Shielding - Bottom View



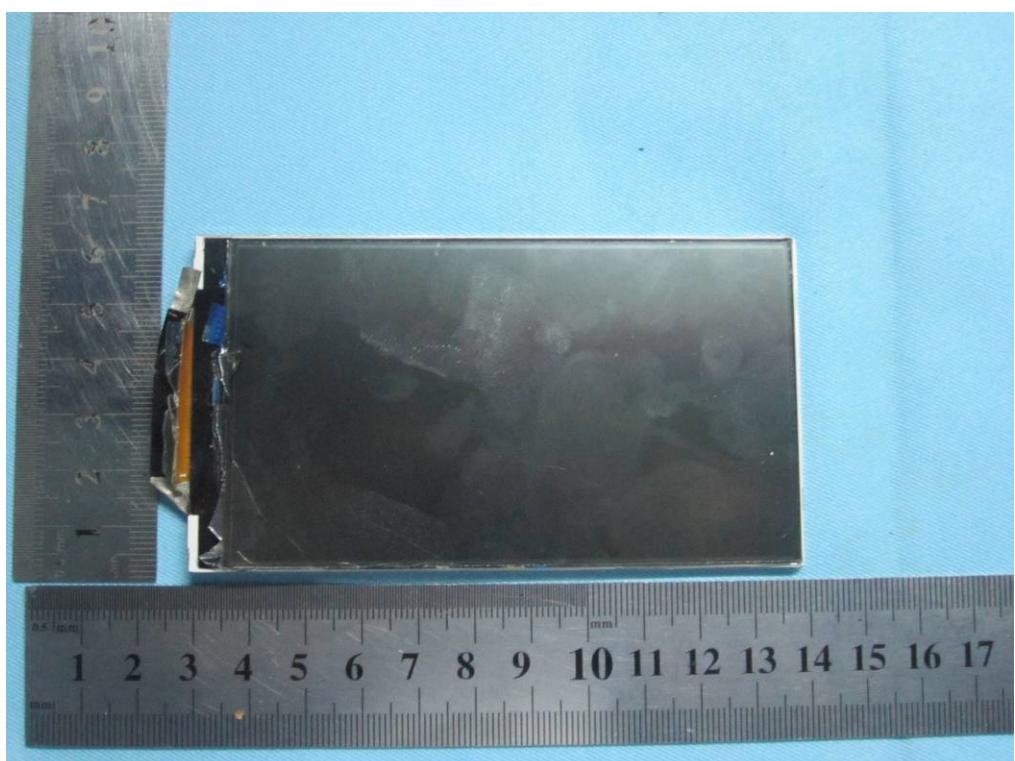
Mainborad Without Shielding - Bottom View



Connectborad – Top View



Connectborad – Bottom View



LCD – Top View

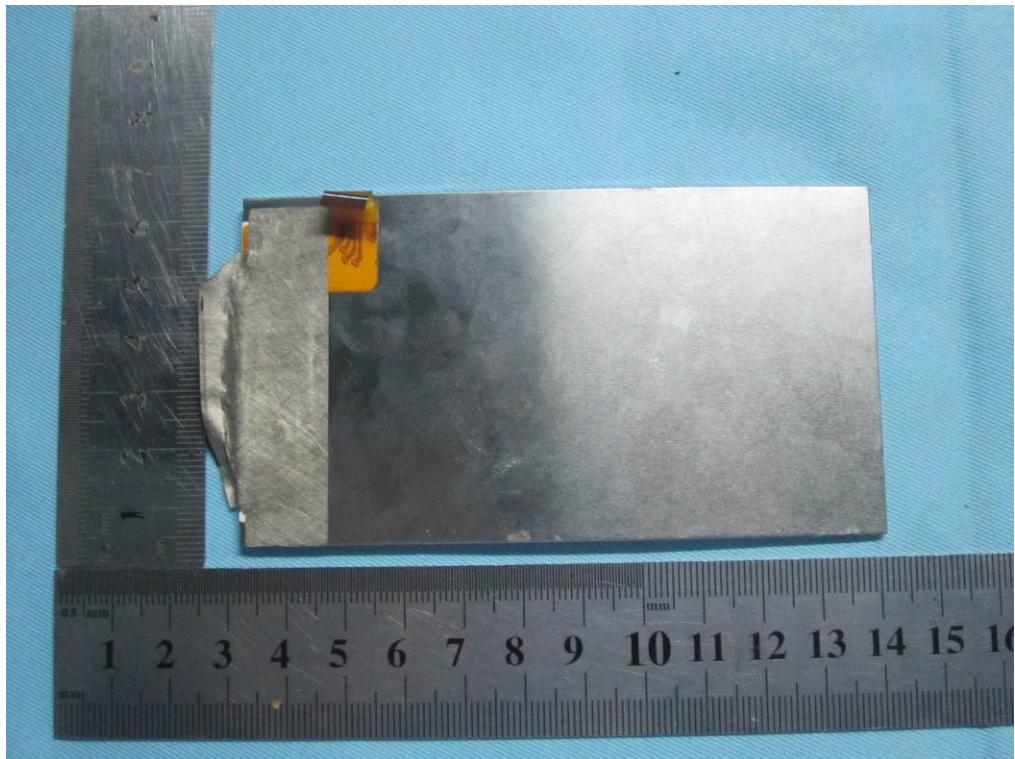


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LCD – Bottom View



Bluetooth / BLE / WIFI Antenna View



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GSM / PCS/ UMTS Antenna View



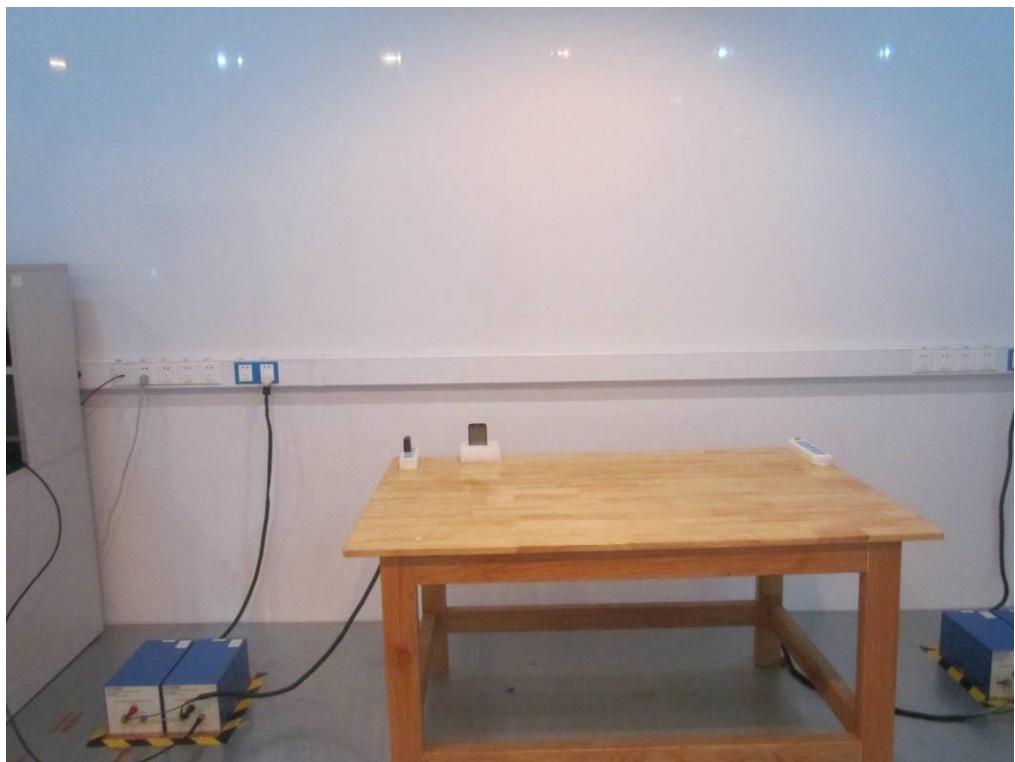
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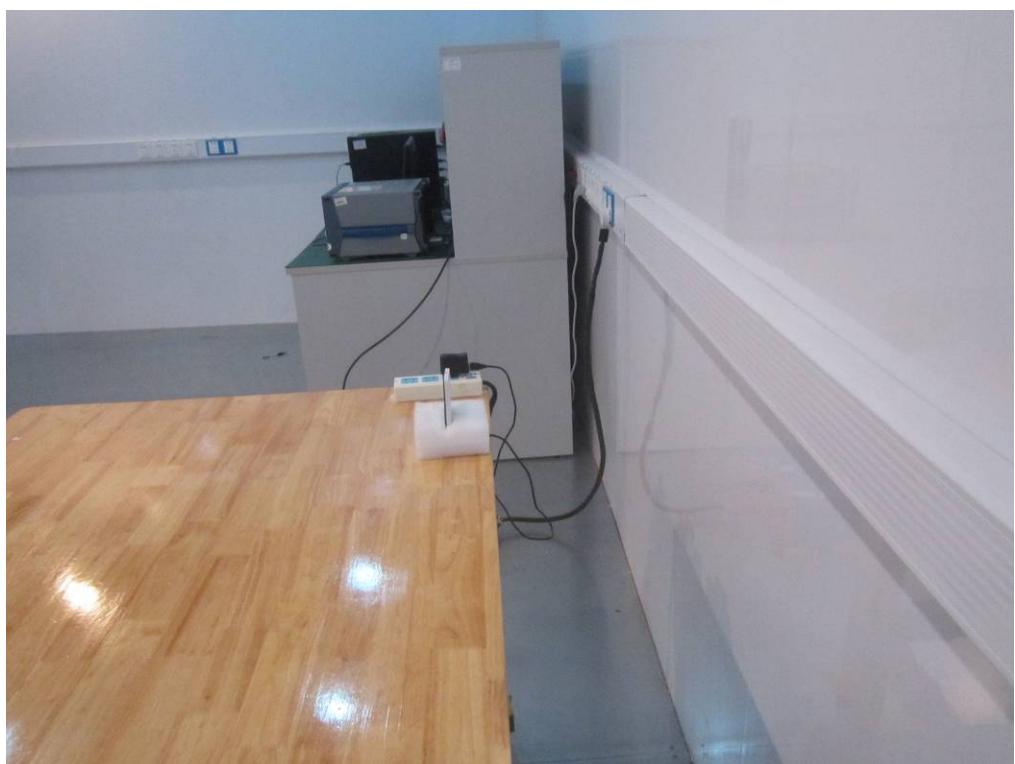
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Annex B.iii. Photograph 3: Test Setup Photo



Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View

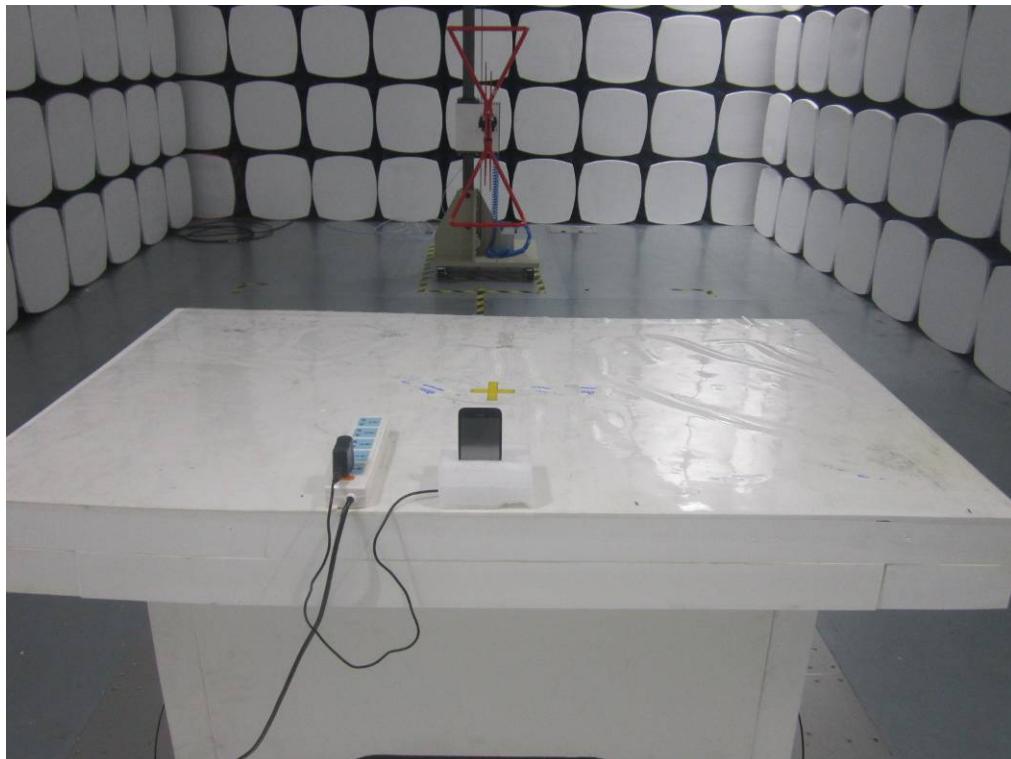


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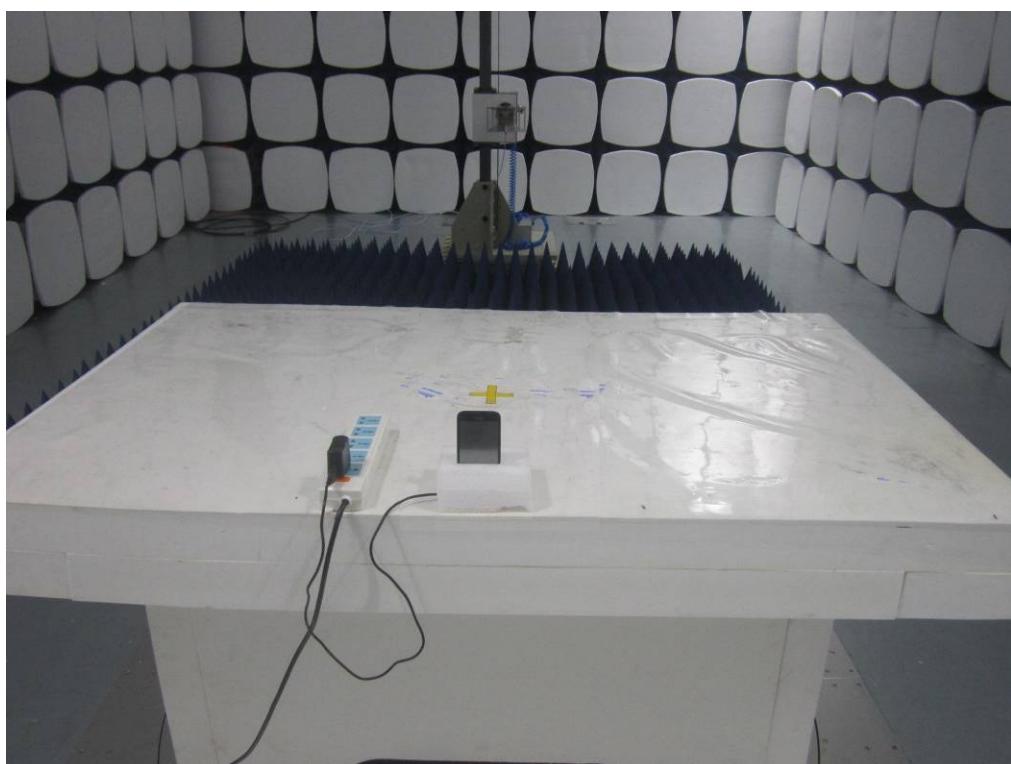
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Radiated Spurious Emissions Test Setup Below 1GHz - Front View



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.

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



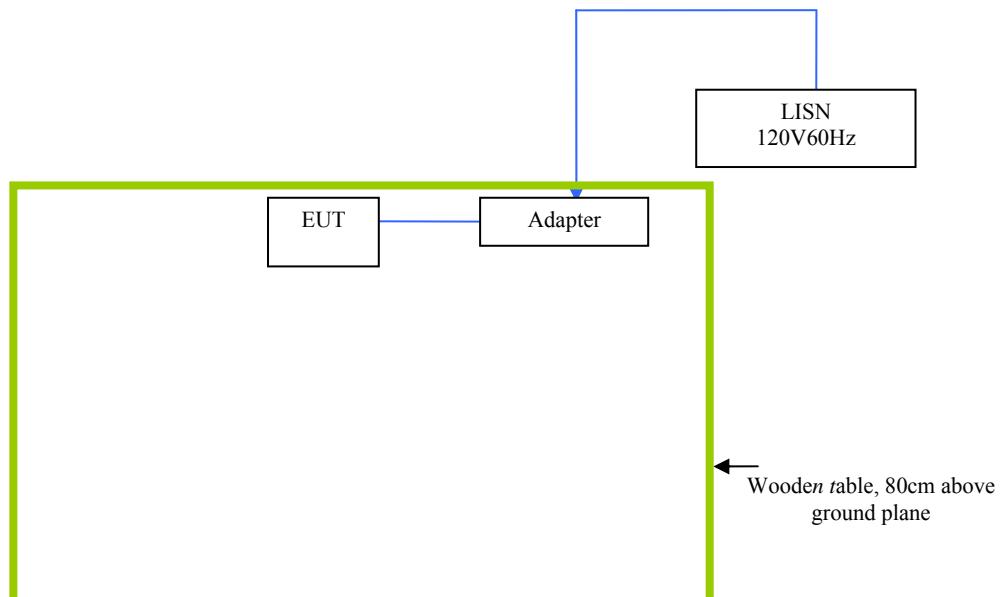
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Block Configuration Diagram for AC Line Conducted Emissions





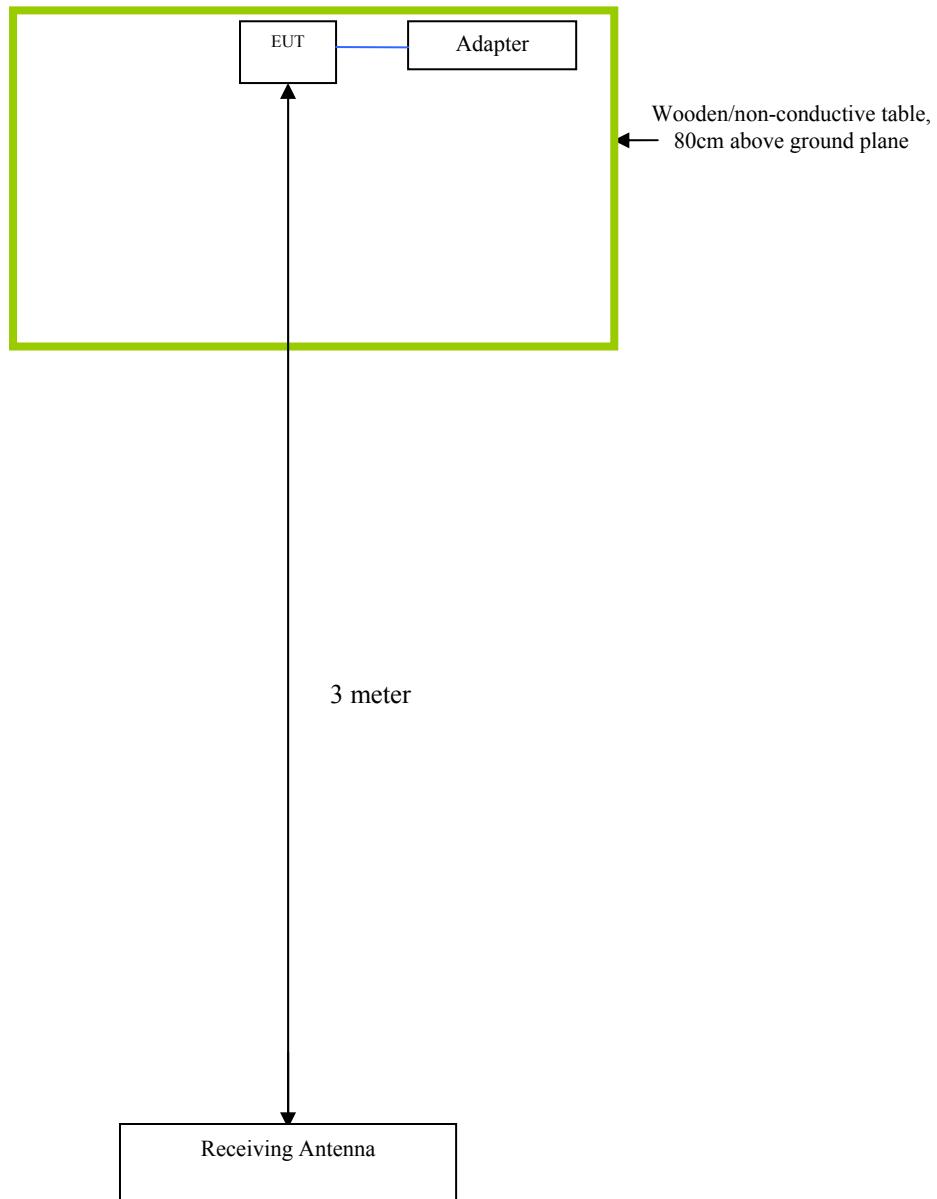
SIEMIC, INC.

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Title: RF Test Report for GSM Mobile Phone
Main Model: A5
Serial Model: N/A
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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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 continuously transmitting to stimulate the worst case.



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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

IPRÓ

To: SIEMIC , 775 Montague Expressway. Milpitas, CA 95035, USA

Declaration letter

Dear Sir,

We declare that there is no electrical change has been made to the equipment that alters the compliance characteristics. The difference between model A5 and original model V5 in the report 13070559 which was granted by SIEMIC are following:

1. Change the appearance of material;
2. Change the GSM,WCDMA,WIFI,BT antenna.
3. Change the battery capacity

Thank you!

Printed name/title: sissy / Manager

Tel: 00852-96669759

Fax: 00852- 21100996

Address: HONG KONG IPRÓ TECHNOLOGY CO.,LIMITED