

Matsunichi Digital Technology (Hong Kong) Limited

MID

Main Model: T-101

Serial Model: N/A

December 02, 2013

Report No.: 13070542-FCC-R1

(This report supersedes NONE)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:

Kahn Yang

Alex Liu



Kahn Yang
Compliance Engineer

Alex Liu
Technical Manager

RF Test Report

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

SIEMIC, INC.
Accessing global markets



Report No: 13070542-FCC-R1
Issue Date: December 02, 2013
Page: 2 of 65
www.siemic.com.cn

Laboratory Introduction

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



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

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



SIEMIC, INC.

Accessing global markets

Title: RF Test Report for MID
Main Model: T-101
Serial Model: N/A
To: FCC Part 22(H) & FCC Part 24(E): 2013

Report No: 13070542-FCC-R1
Issue Date: December 02, 2013
Page: 3 of 65
www.siemic.com.cn

This page has been left blank intentionally.

CONTENTS

1. EXECUTIVE SUMMARY & EUT INFORMATION.....	5
2. TECHNICAL DETAILS.....	6
3. MODIFICATION	7
3. TEST SUMMARY.....	8
4. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS.....	9
ANNEX A. TEST INSTRUMENT & METHOD	45
ANNEX B. EUT AND TEST SETUP PHOTOGRAPHS	48
ANNEX C. TEST SETUP AND SUPPORTING EQUIPMENT.....	61
ANNEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST	64
ANNEX E. DECLARATION OF SIMILARITY	65

1. EXECUTIVE SUMMARY & EUT INFORMATION

The purpose of this test programmed was to demonstrate compliance of the Matsunichi Digital Technology (Hong Kong) Limited, MID and model: T-101 against the current Stipulated Standards. The MID has demonstrated compliance with the FCC Part 22(H) & FCC Part 24(E): 2013.

EUT Information

EUT

Description : MID

Main Model : T-101

Serial Model N/A

Antenna Gain UMTS-FDD Band V/GPRS850: 0.9dBi

UMTS-FDD Band II/GPRS1900: 0.6dBi

: Bluetooth: 1.9dBi
 WIFI: 1.9dBi

Input Power Model: 3655148/7000mAh/3.7V

Spec: 3.7V 7000mAh

Limited charger voltage: 4.2V

Adapter:

Model: CYSG10-050200-U

Input: AC 100-240V 50/60Hz 0.5A

Output: DC 5V 2A

Maximum Conducted AV Power to Antenna GPRS850: 31.91dBm

GPRS1900: 29.62dBm

: UMTS-FDD Band V : 22.7dBm
 UMTS-FDD Band II : 22.58dBm

GPRS850: 28.35dBm / ERP

GPRS1900: 24.28dBm / EIRP

: UMTS-FDD Band V : 22.32dBm / ERP
 UMTS-FDD Band II : 22.01dBm / EIRP

Classification

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

2. TECHNICAL DETAILS

Purpose	Compliance testing of MID with stipulated standard
Applicant / Client	Matsunichi Digital Technology (Hong Kong) Limited 20/F, York House, The, Landmark 15 Queens Road Central, Hong Kong
Manufacturer	Matsunichi Digital Technology (Hong Kong) Limited 20/F, York House, The, Landmark 15 Queens Road Central, Hong Kong
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	13070542-FCC-R1
Date EUT received	November 19, 2013
Standard applied	FCC Part 22(H) & FCC Part 24(E): 2013
Dates of test	November 20, 2013 to November 29, 2013
No of Units	#1
Equipment Category	PCB
Trade Name	N/A
RF Operating Frequency (ies)	GPRS850 TX : 824.2 ~ 848.8 MHz; RX : 869.2 ~ 893.8 MHz 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: 2402-2480 MHz
Number of Channels	299CH (GPRS1900) and 124CH (GPRS850) UMTS-FDD Band V : 102CH UMTS-FDD Band II : 277CH Bluetooth: 79CH 802.11b/g/n: 11CH
Modulation	GPRS: GMSK UMTS-FDD: QPSK 802.11b/g/n: DSSS/OFDM Bluetooth: GFSK & π/4DQPSK&8DPSK
GPRS Multi-slot class	8/10/12
FCC ID	2ABGI-T-101

3 MODIFICATION

NONE

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.

4. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

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: 13070542-FCC-H



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

1. Conducted Measurement
EUT was set for low, mid, high channel with modulated mode and highest RF output power.
The spectrum analyzer was connected to the antenna terminal.
2. Conducted Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is $\pm 1.5\text{dB}$.
3. Environmental Conditions

Temperature	23°C
Relative Humidity	55%
Atmospheric Pressure	1011mbar
4. Test date : November 23, 2013
Tested By : Kahn Yang

Procedures: (According with KDB 971168)

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.
4. The instrument must have an available measurement/resolution bandwidth that is equal to or exceeds the OBW. If this capability is available, then the following procedure can be used to determine the total peak output power.
 - a) Set the RBW \geqslant OBW.
 - b) Set VBW $\geqslant 3 \times$ RBW.
 - c) Set span $\geqslant 2 \times$ RBW
 - d) Sweep time = auto couple.
 - e) Detector = peak.
 - f) Ensure that the number of measurement points \geqslant span/RBW.
 - g) Trace mode = max hold.
 - h) Allow trace to fully stabilize.
 - 1) Use the peak marker function to determine the peak amplitude level.

For ERP/EIRP: (According with TIA 603B)

1. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.
2. 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.
3. 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.

Sample Calculation:

EUT Field Strength (dBm) = Reading (Signal generator) + Antenna Gain (substitution antenna) - Cable loss (From Signal Generator to substitution antenna)

Test Result: Pass

Remark: Conducted Burst Average power for reporting purposes only



Conducted Power

GPRS Mode:

Burst Average Power (dBm);								
Band	GPRS850				GPRS1900			
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	/
GPRS Multi-Slot Class 8 (1 uplink),GMSK	31.82	31.89	31.91	32±1	29.62	29.53	29.61	29±1
GPRS Multi-Slot Class 10 (2 uplink),GMSK	29.26	29.47	29.49	30±1	26.77	26.76	26.87	27±1
GPRS Multi-Slot Class 12 (4 uplink),GMSK	26.45	26.55	26.53	27±1	24.22	24.25	24.29	25±1

Remark:

Remark :
GPRS, CS1 coding scheme.

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

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 10 , Support Max 4 downlink, 2 uplink , 3 working link
Multi-Slot Class 12. Support Max 4 downlink, 4 uplink , 5 working link

UMTS Mode:

UMTS-FDD Band V

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)
RMC 12.2kbps	4132	826.4	22.70
	4175	835.0	22.33
	4233	846.6	22.46
HSDPA Subtest1	4132	826.4	22.70
	4175	835.0	22.32
	4233	846.6	22.45
HSDPA Subtest2	4132	826.4	22.70
	4175	835.0	22.33
	4233	846.6	22.44
HSDPA Subtest3	4132	826.4	22.69
	4175	835.0	22.31
	4233	846.6	22.45
HSDPA Subtest4	4132	826.4	22.70
	4175	835.0	22.32
	4233	846.6	22.45
HSUPA Subtest1	4132	826.4	22.70
	4175	835.0	22.32
	4233	846.6	22.44
HSUPA Subtest2	4132	826.4	22.70
	4175	835.0	22.31
	4233	846.6	22.45
HSUPA Subtest3	4132	826.4	22.70
	4175	835.0	22.33
	4233	846.6	22.46
HSUPA Subtest4	4132	826.4	22.69
	4175	835.0	22.33
	4233	846.6	22.45
HSUPA Subtest5	4132	826.4	22.69
	4175	835.0	22.32
	4233	846.6	22.45

UMTS-FDD Band II

Band/ Time Slot configuration	Channel	Frequency	Average power (dBm)
RMC 12.2kbps	9262	1852.4	22.47
	9400	1880.0	22.58
	9538	1907.6	22.40
HSDPA Subtest1	9262	1852.4	22.47
	9400	1880.0	22.57
	9538	1907.6	22.39
HSDPA Subtest2	9262	1852.4	22.47
	9400	1880.0	22.57
	9538	1907.6	22.39
HSDPA Subtest3	9262	1852.4	22.47
	9400	1880.0	22.56
	9538	1907.6	22.38
HSDPA Subtest4	9262	1852.4	22.47
	9400	1880.0	22.57
	9538	1907.6	22.39
HSUPA Subtest1	9262	1852.4	22.46
	9400	1880.0	22.56
	9538	1907.6	22.40
HSUPA Subtest2	9262	1852.4	22.47
	9400	1880.0	22.58
	9538	1907.6	22.40
HSUPA Subtest3	9262	1852.4	22.47
	9400	1880.0	22.58
	9538	1907.6	22.38
HSUPA Subtest4	9262	1852.4	22.43
	9400	1880.0	22.58
	9538	1907.6	22.40
HSUPA Subtest5	9262	1852.4	22.45
	9400	1880.0	22.57
	9538	1907.6	22.38

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	21.82	V	6.8	0.53	28.09	38.45
824.2	20.94	H	6.8	0.53	27.21	38.45
836.6	21.84	V	6.8	0.53	28.11	38.45
836.6	20.89	H	6.8	0.53	27.16	38.45
848.8	21.98	V	6.9	0.53	28.35	38.45
848.8	20.96	H	6.9	0.53	27.33	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	17.25	V	7.88	0.85	24.28	33
1850.2	15.96	H	7.88	0.85	22.99	33
1880	17.23	V	7.88	0.85	24.26	33
1880	15.98	H	7.88	0.85	23.01	33
1909.8	17.26	V	7.86	0.85	24.27	33
1909.8	15.99	H	7.86	0.85	23	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)
826.40	15.91	V	6.8	0.53	22.18	33
826.40	14.12	H	6.8	0.53	20.39	33
835.00	15.94	V	6.8	0.53	22.21	33
835.00	14.11	H	6.8	0.53	20.38	33
846.60	15.95	V	6.9	0.53	22.32	33
846.60	14.17	H	6.9	0.53	20.54	33

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)
1852.40	14.98	V	7.88	0.85	22.01	33
1852.40	13.37	H	7.88	0.85	20.4	33
1880.00	14.94	V	7.88	0.85	21.97	33
1880.00	13.30	H	7.88	0.85	20.33	33
1907.60	14.89	V	7.86	0.85	21.9	33
1907.60	13.34	H	7.86	0.85	20.35	33



SIEMIC, INC.

Accessing global markets

Title: RF Test Report for MID

Main Model: T-101

Serial Model: N/A

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

Report No: 13070542-FCC-R1

Issue Date: December 02, 2013

Page: 15 of 65

www.siemic.com.cn

5.3 §2.1047 - Modulation Characteristic

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

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

1. Conducted Measurement
EUT was set for low, mid, high channel with modulated mode and highest RF output power.
The spectrum analyser was connected to the antenna terminal.
2. Environmental Conditions Temperature 23°C
 Relative Humidity 55%
 Atmospheric Pressure 1011mbar
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 23, 2013
Tested By : Kahn Yang

Procedures:

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers.
3. Details according with KDB 971168 section 4.1 & 4.2.

Test Results: Pass

Cellular Band (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
128	824.2	244.3303	321.745
190	836.6	243.5419	316.364
251	848.8	244.6242	327.724

PCS Band (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	245.9924	319.370
661	1880.0	245.3881	316.438
810	1909.8	245.5778	315.548

UMTS-FDD Band V (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
4132	826.4	4.0582	4.650
4175	835.0	4.0764	4.606
4233	846.6	4.0660	4.660

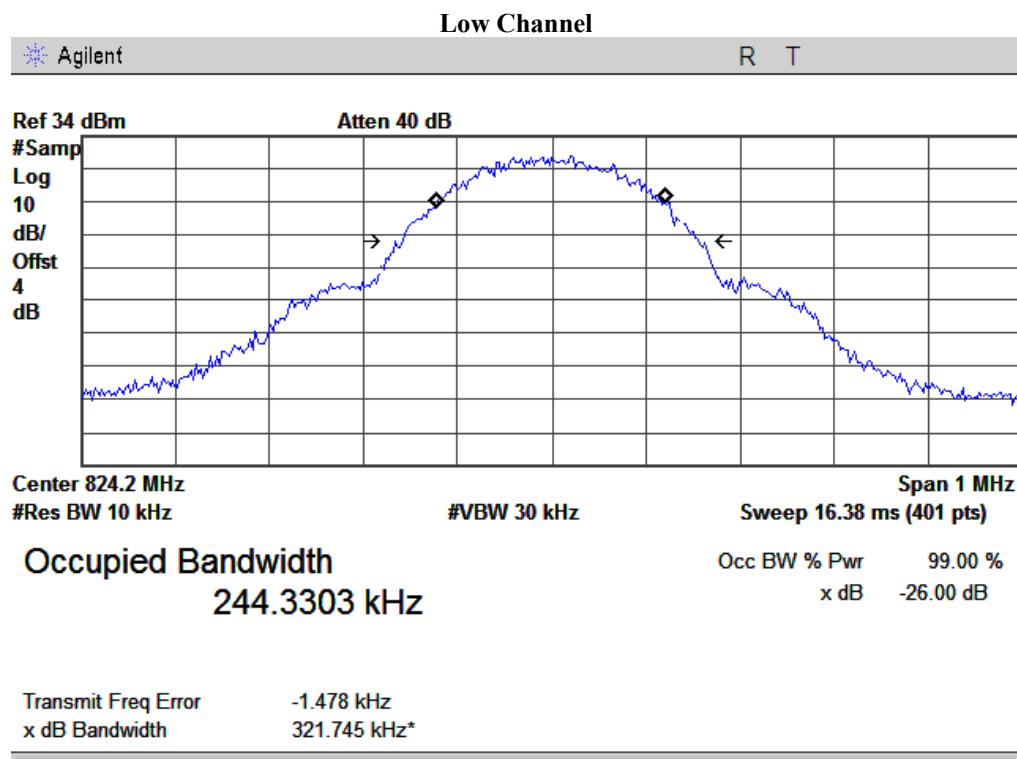
UMTS-FDD Band II (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.0986	4.782
9400	1880.0	4.0512	4.607
9538	1907.6	4.0479	4.666

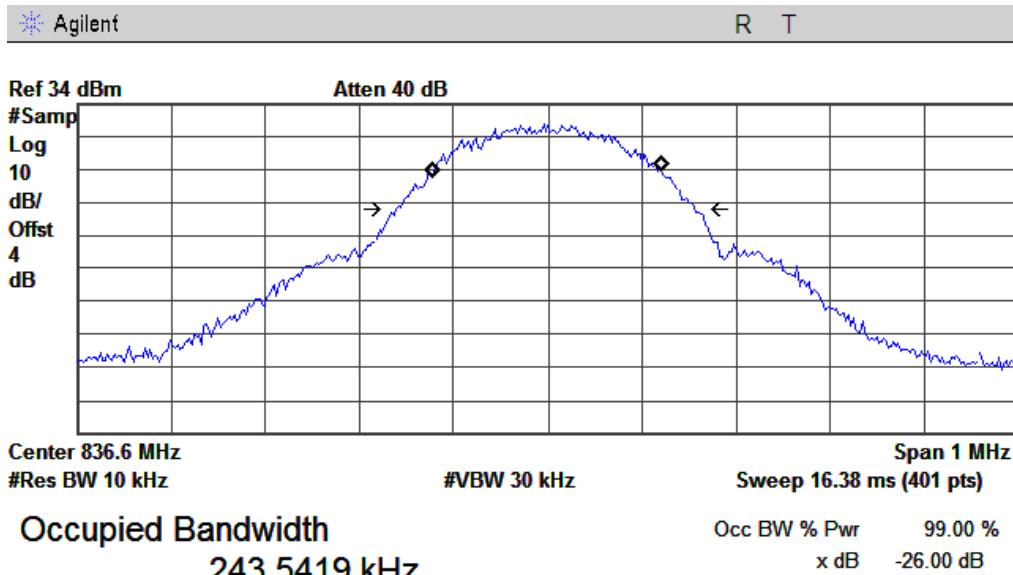
Please refer to the following plots.

Cellular Band (Part 22H)

99% Occupied Bandwidth & 26 dB Bandwidth

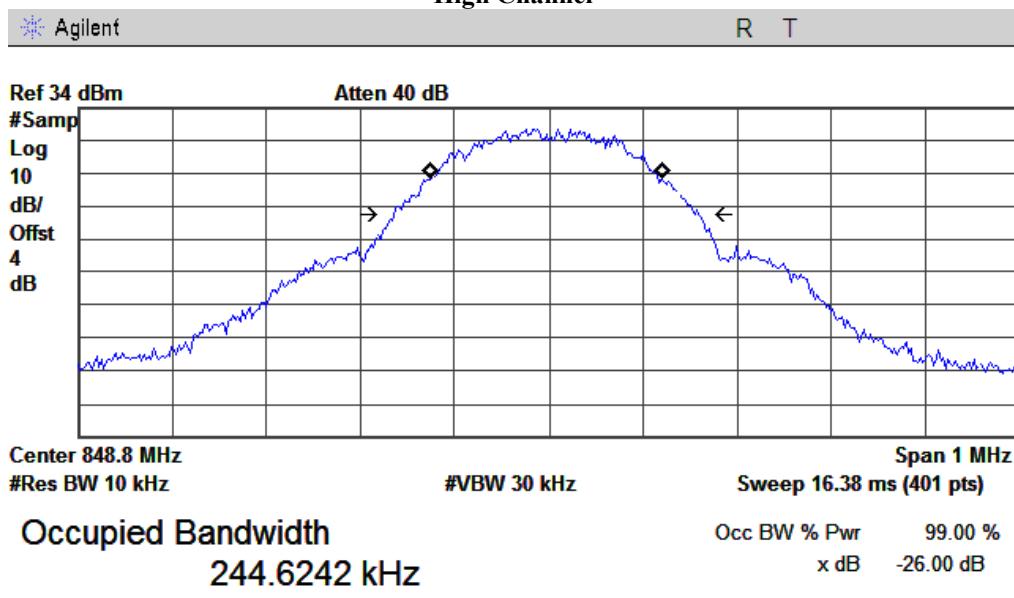


Middle Channel



Transmit Freq Error -800.690 Hz
 x dB Bandwidth 316.364 kHz*

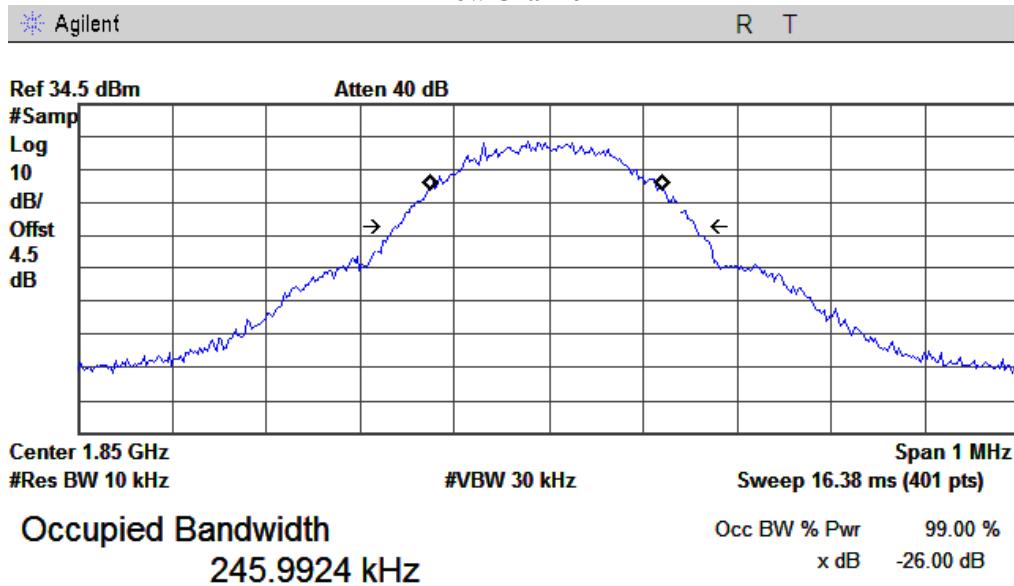
High Channel



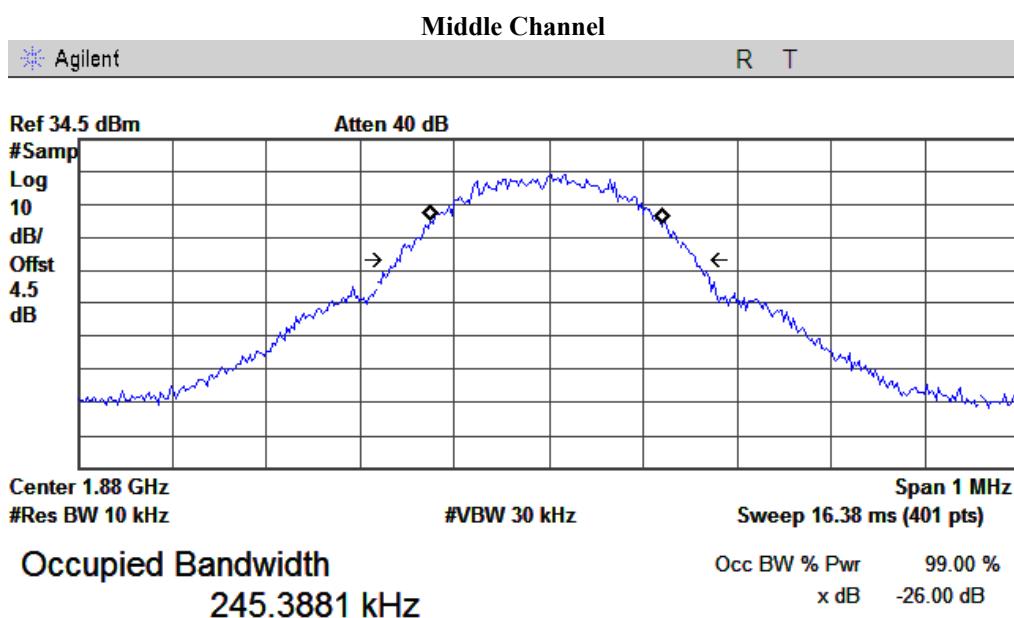
Transmit Freq Error -2.127 kHz
 x dB Bandwidth 323.724 kHz*

PCS Band (Part 24E)

99% Occupied Bandwidth & 26 dB Bandwidth
Low Channel

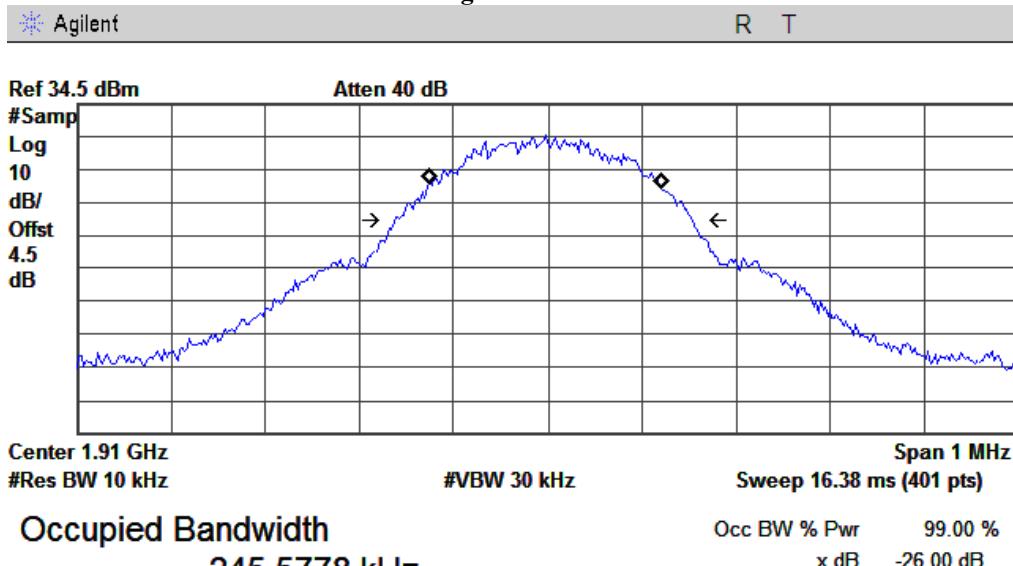


Transmit Freq Error -2.299 kHz
 x dB Bandwidth 319.370 kHz*



Transmit Freq Error -1.591 kHz
 x dB Bandwidth 316.438 kHz*

High Channel

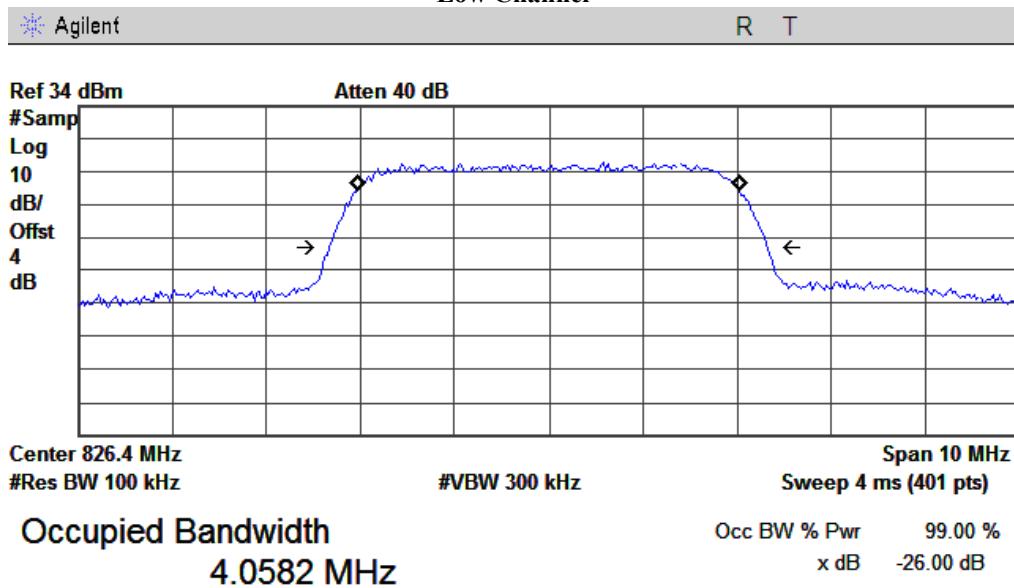


Transmit Freq Error -1.916 kHz
 x dB Bandwidth 315.548 kHz*

UMTS-FDD Band V (Part 22H)

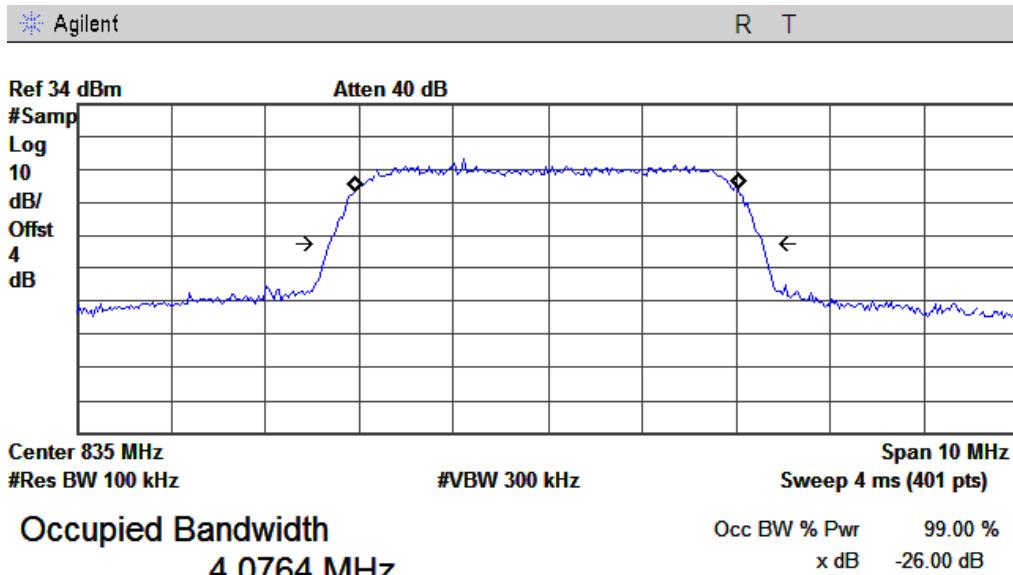
99% Occupied Bandwidth & 26 dB Bandwidth

Low Channel



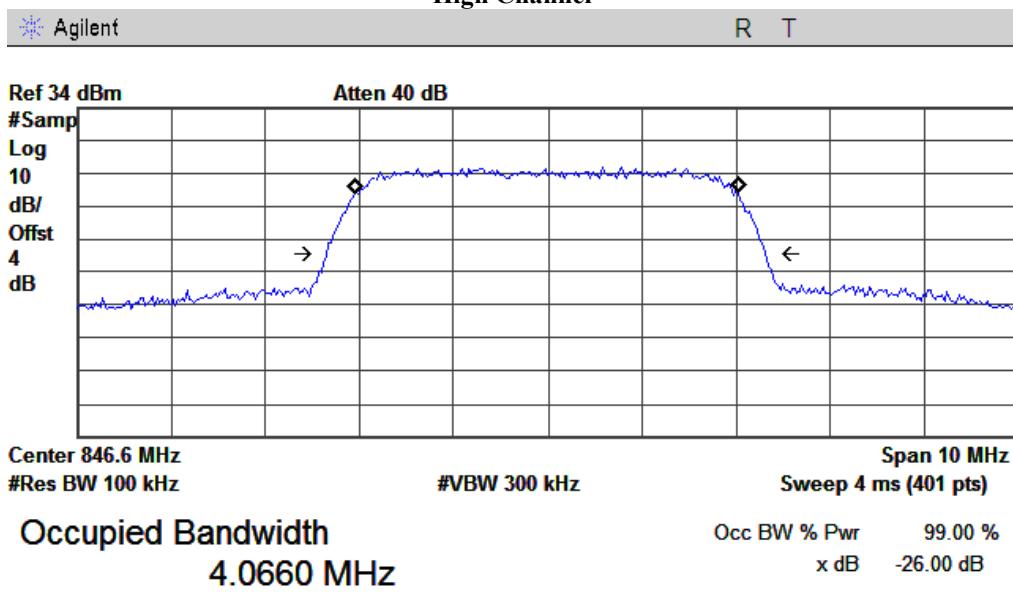
Transmit Freq Error -2.037 kHz
 x dB Bandwidth 4.650 MHz*

Middle Channel



Transmit Freq Error -12.541 kHz
 x dB Bandwidth 4.606 MHz*

High Channel

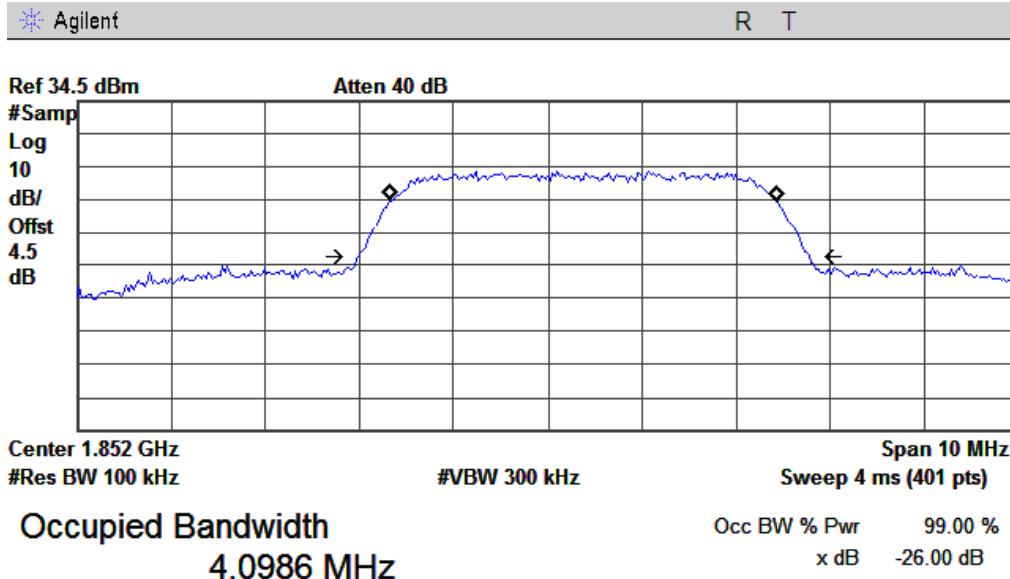


Transmit Freq Error -14.212 kHz
 x dB Bandwidth 4.662 MHz*

UMTS-FDD Band II (Part 24E)

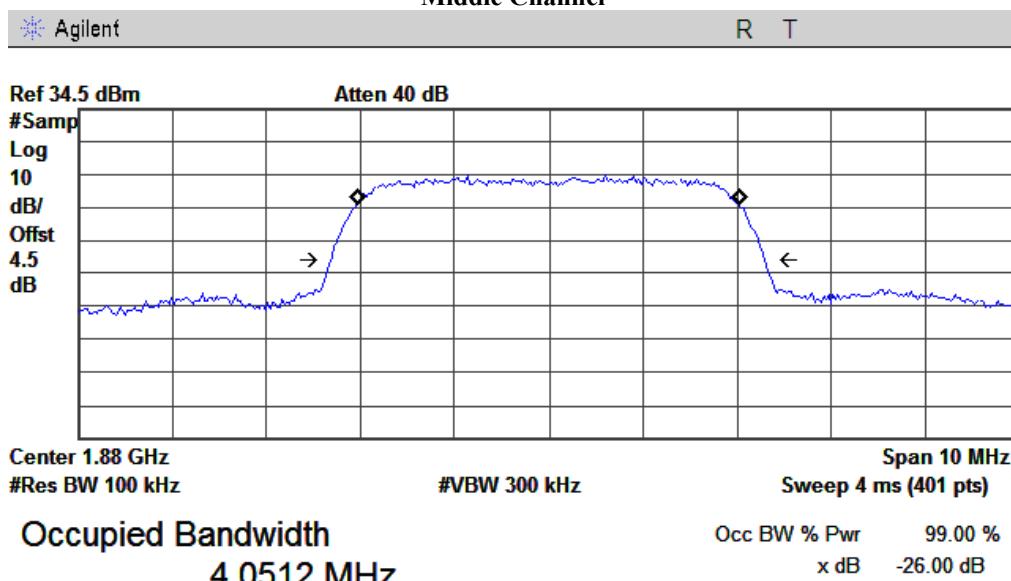
99% Occupied Bandwidth & 26 dB Bandwidth

Low Channel



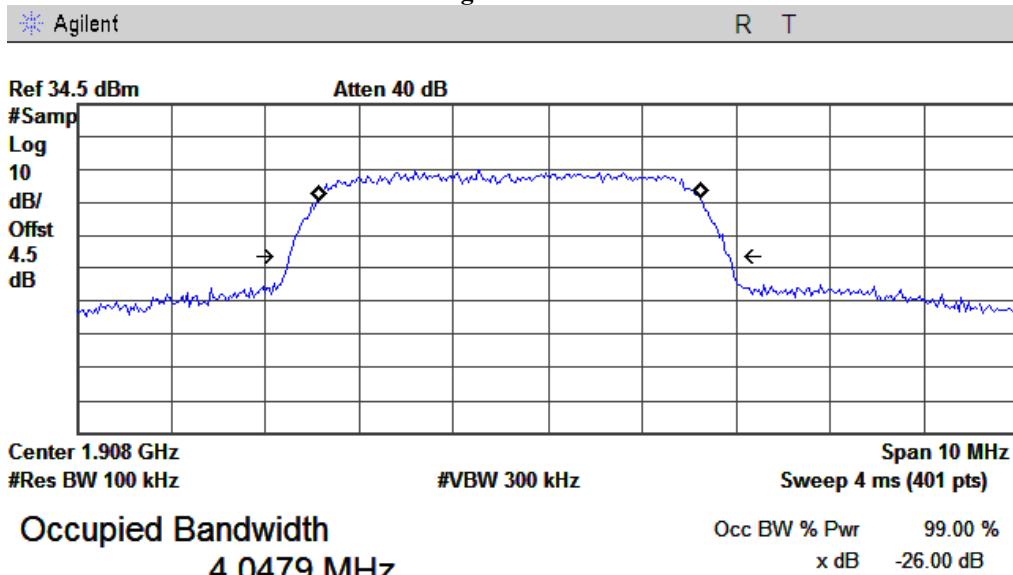
Transmit Freq Error 385.161 kHz
x dB Bandwidth 4.782 MHz*

Middle Channel



Transmit Freq Error -2.953 kHz
x dB Bandwidth 4.607 MHz*

High Channel



5.5 §2.1051, §22.917(a) & §24.238(a) - Spurious Emissions at Antenna 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 ± 1.5 dB.

3. Environmental Conditions

Temperature 24°C

Relative Humidity 56%

Atmospheric Pressure 1012mbar

4. Test date : November 25, 2013

Tested By : Kahn Yang

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.
3. Details according with KDB 971168 section 6.0.

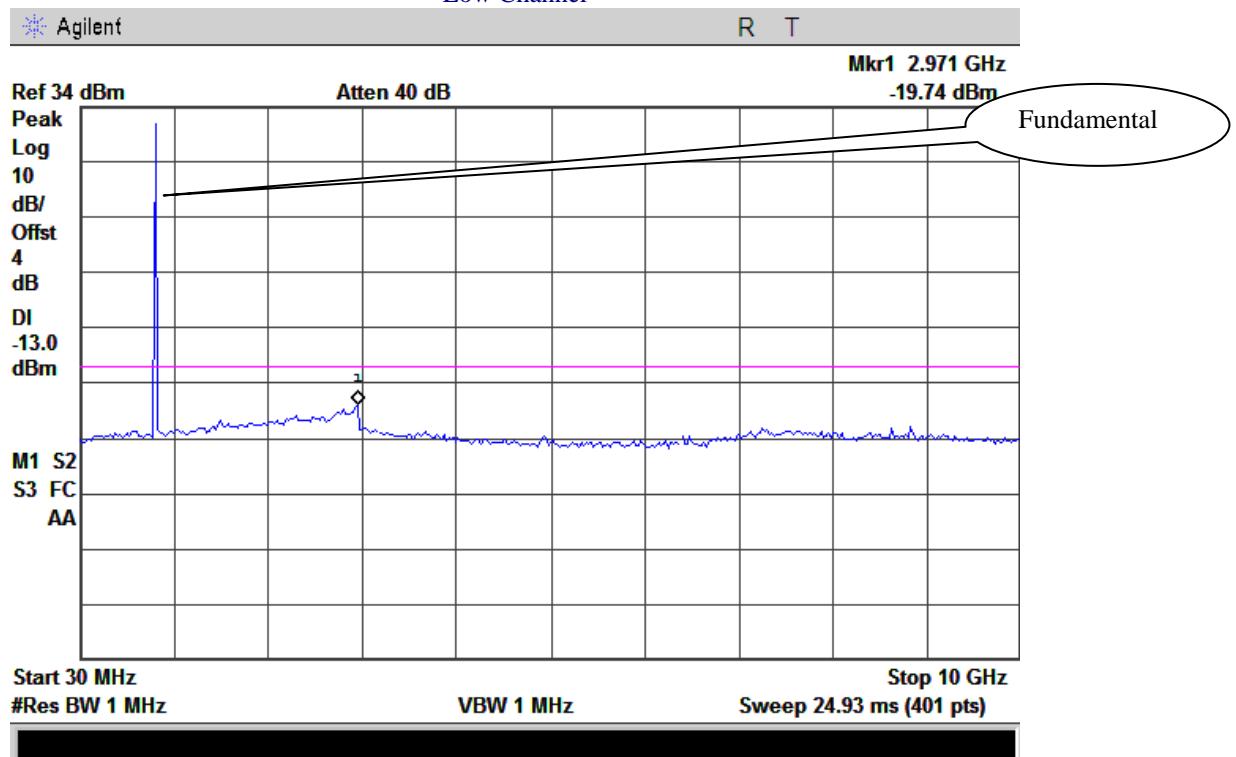
Test Result: Pass

Refer to the attached plots.

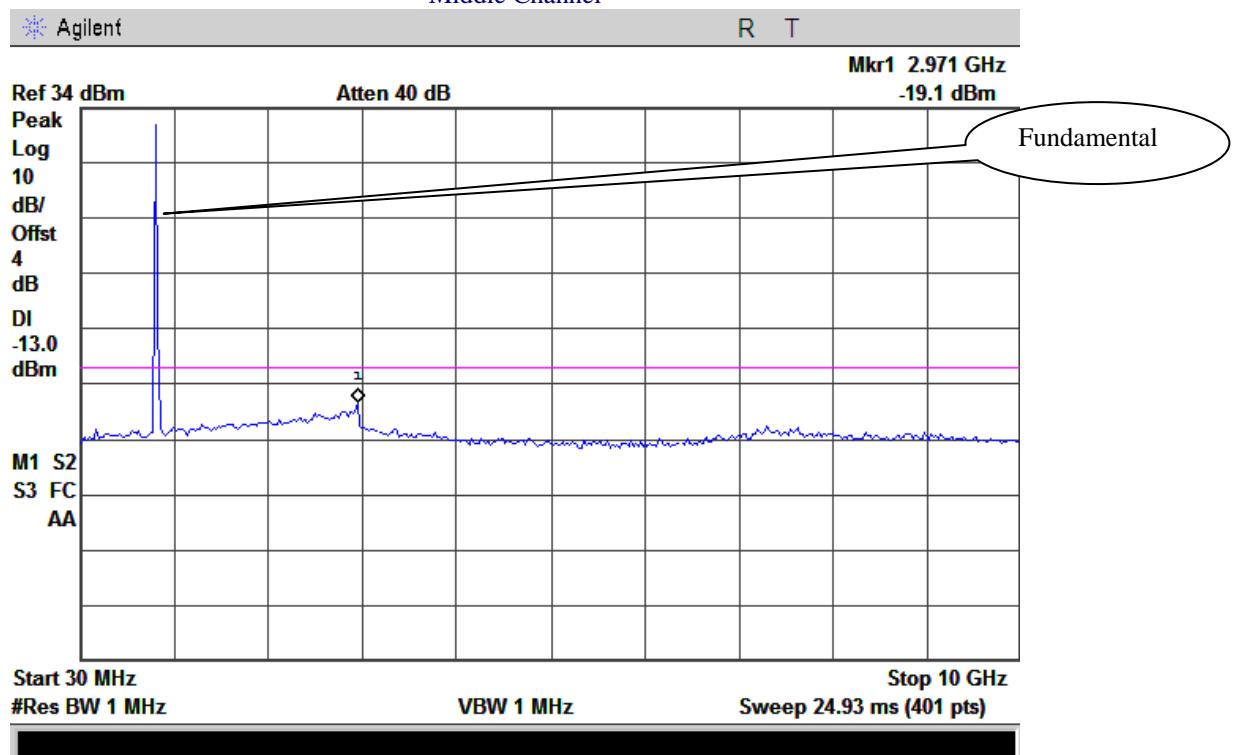
Cellular Band (Part 22H)

30MHz -10G – GSM850

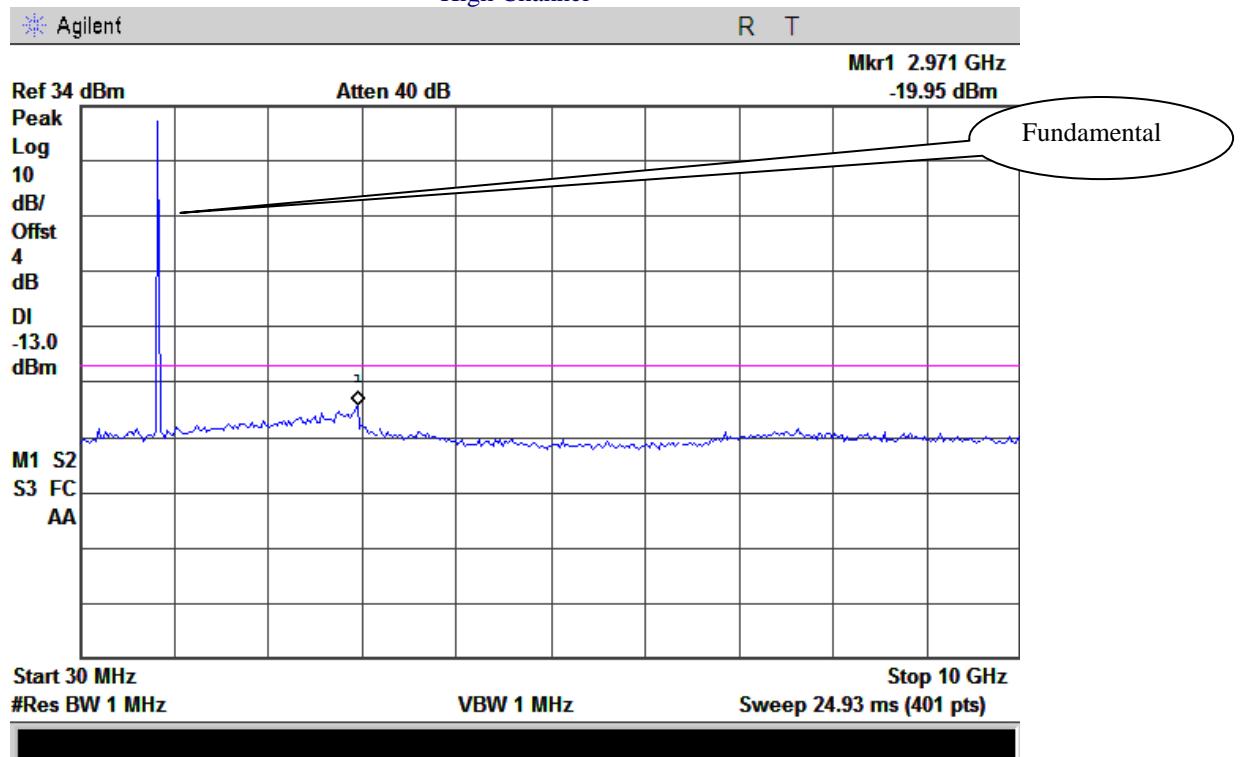
Low Channel



Middle Channel



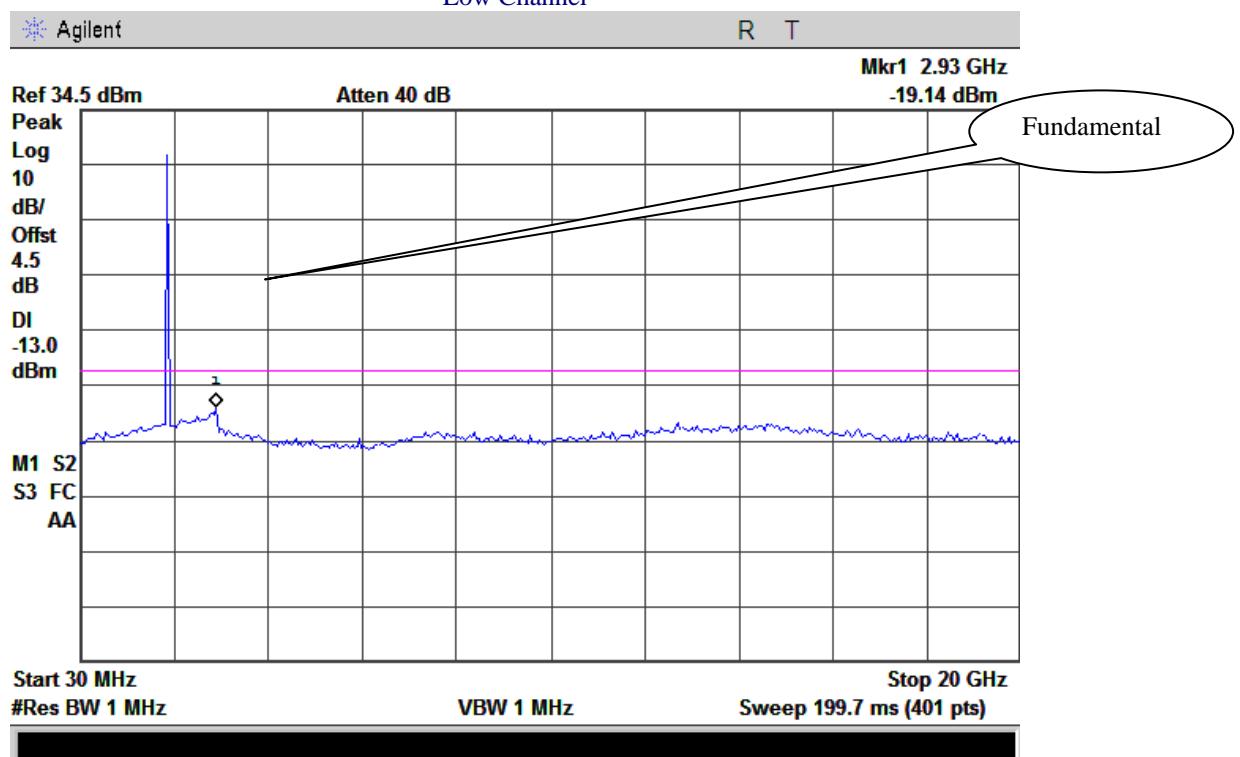
High Channel



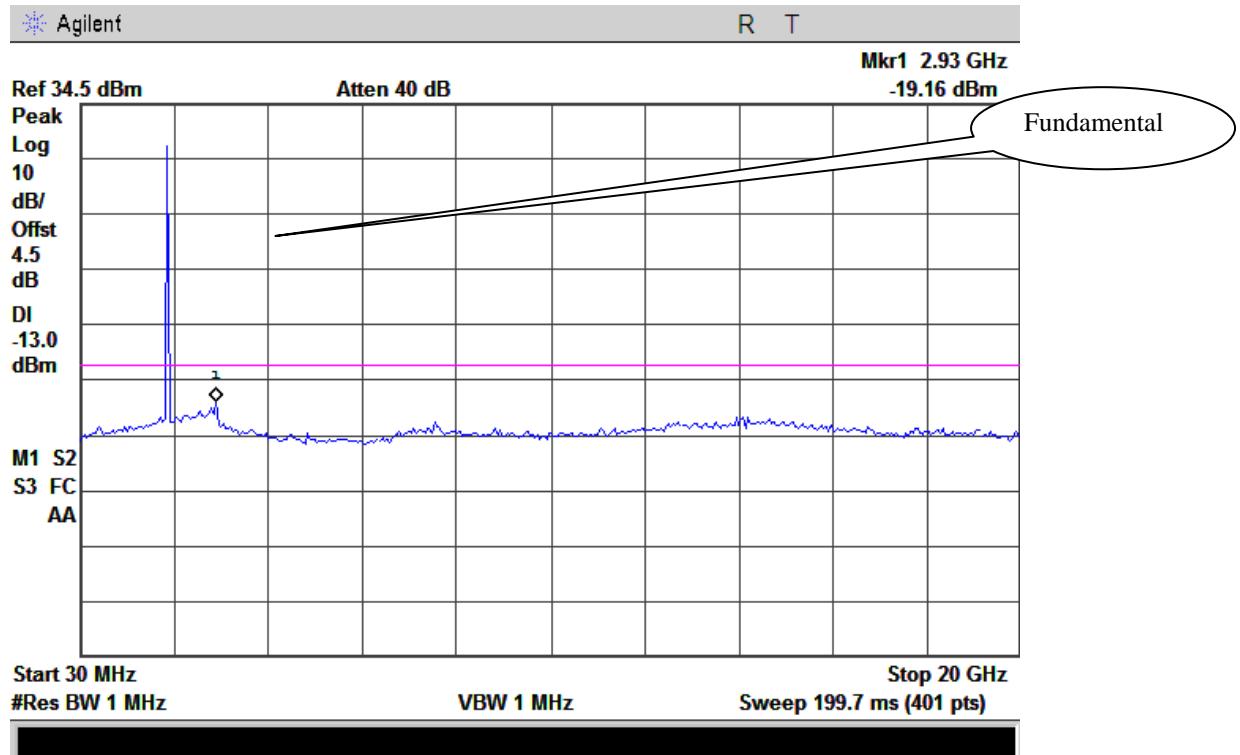
PCS Band (Part24E)

30MHz -20G – PCS1900

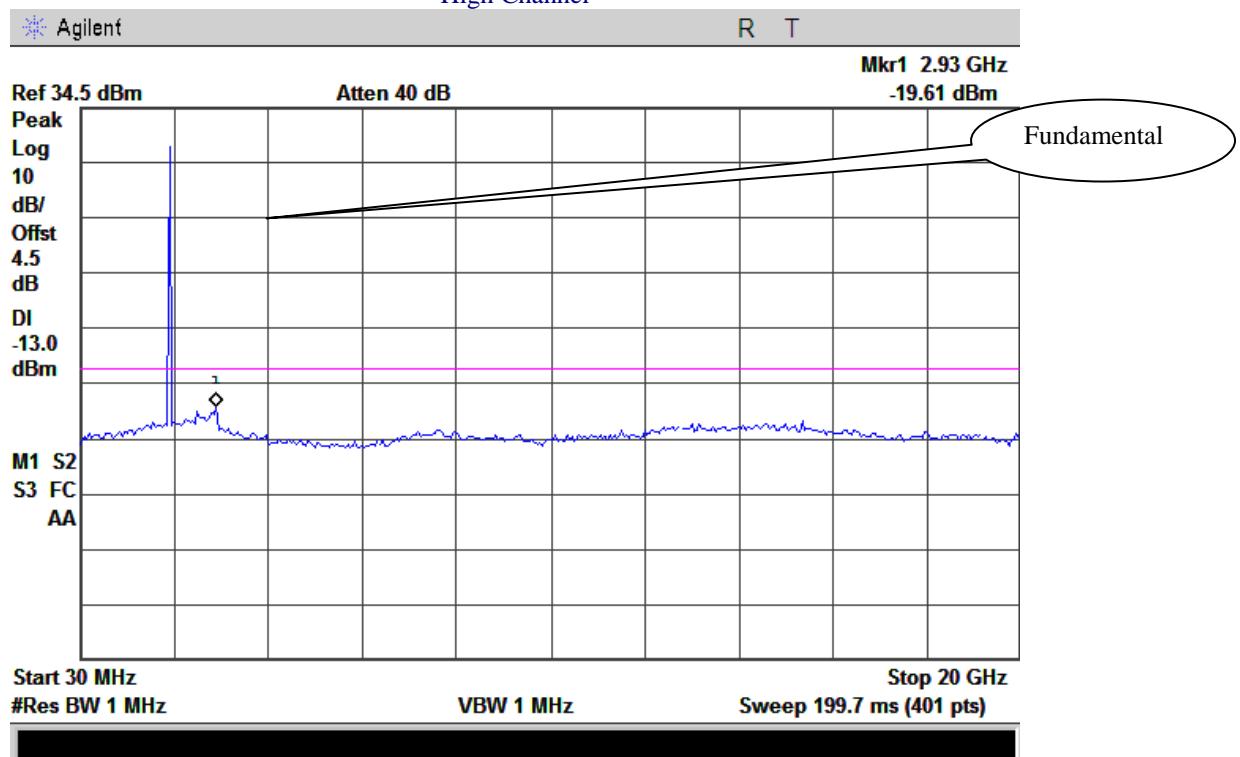
Low Channel



Middle Channel



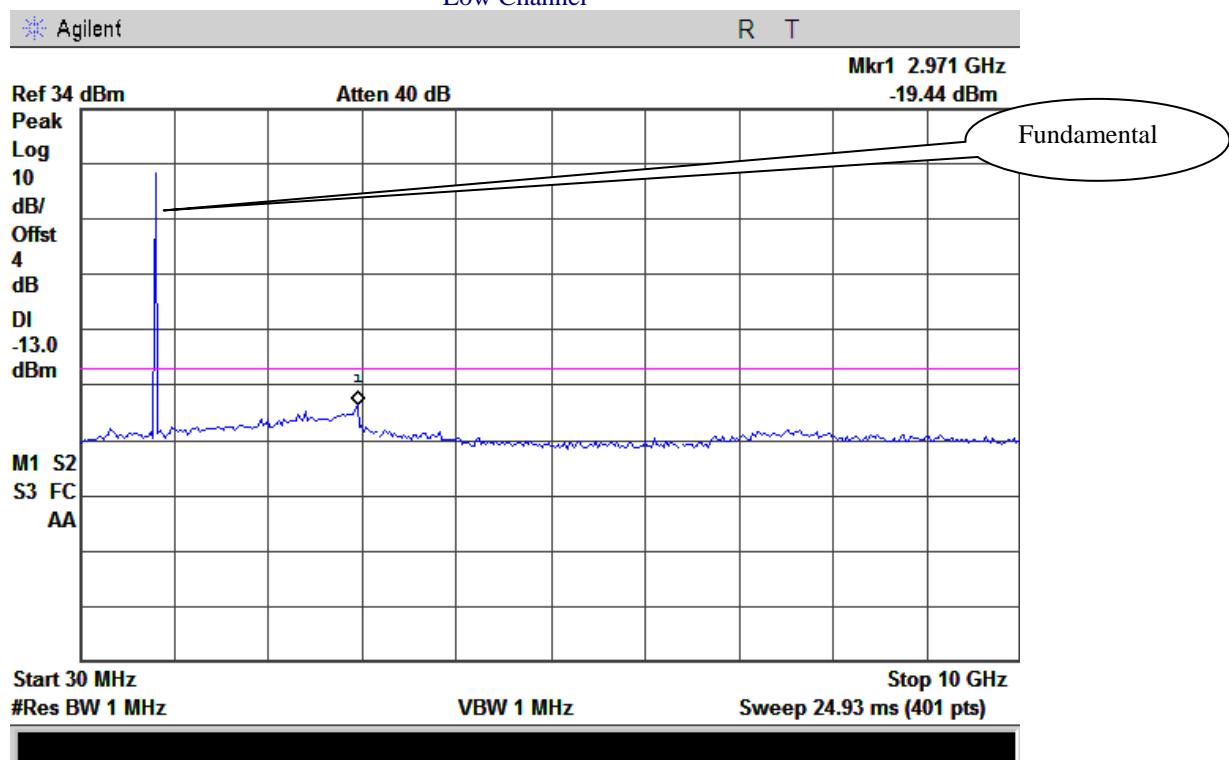
High Channel



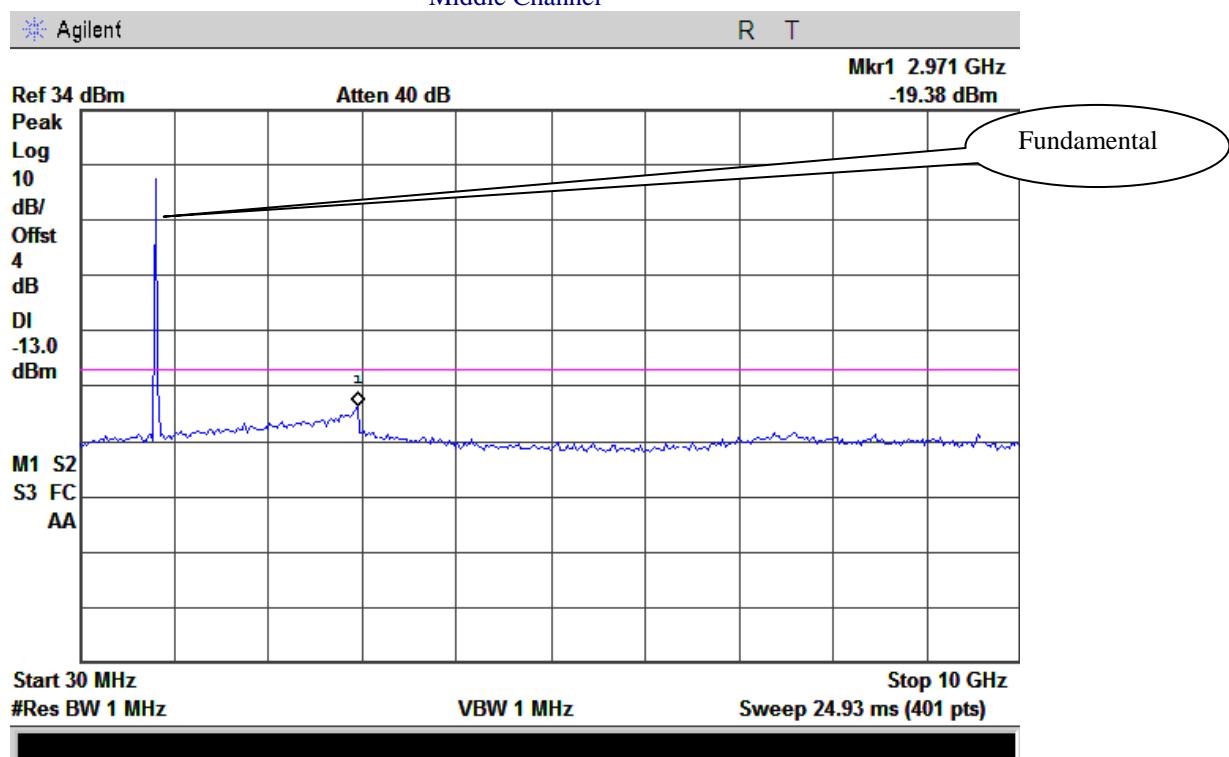
UMTS-FDD Band V (Part 22H)

30MHz -10G – WCDMA 850

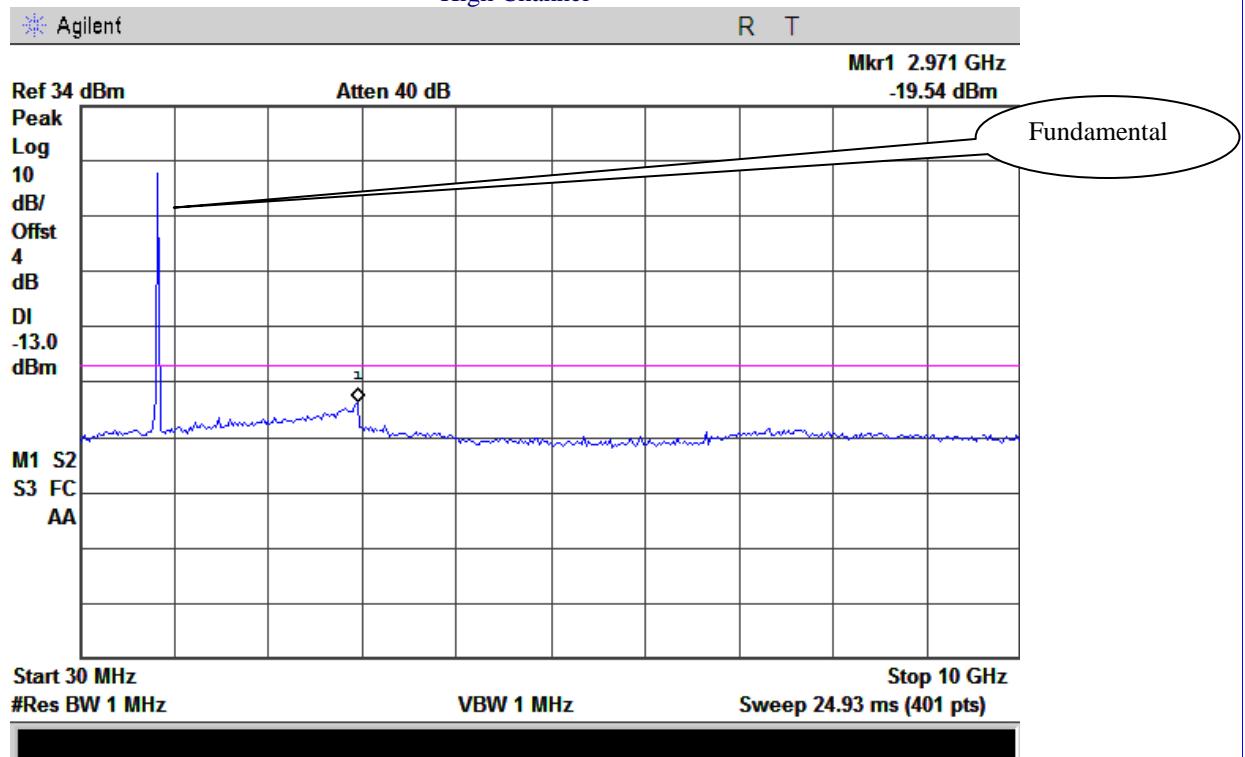
Low Channel



Middle Channel



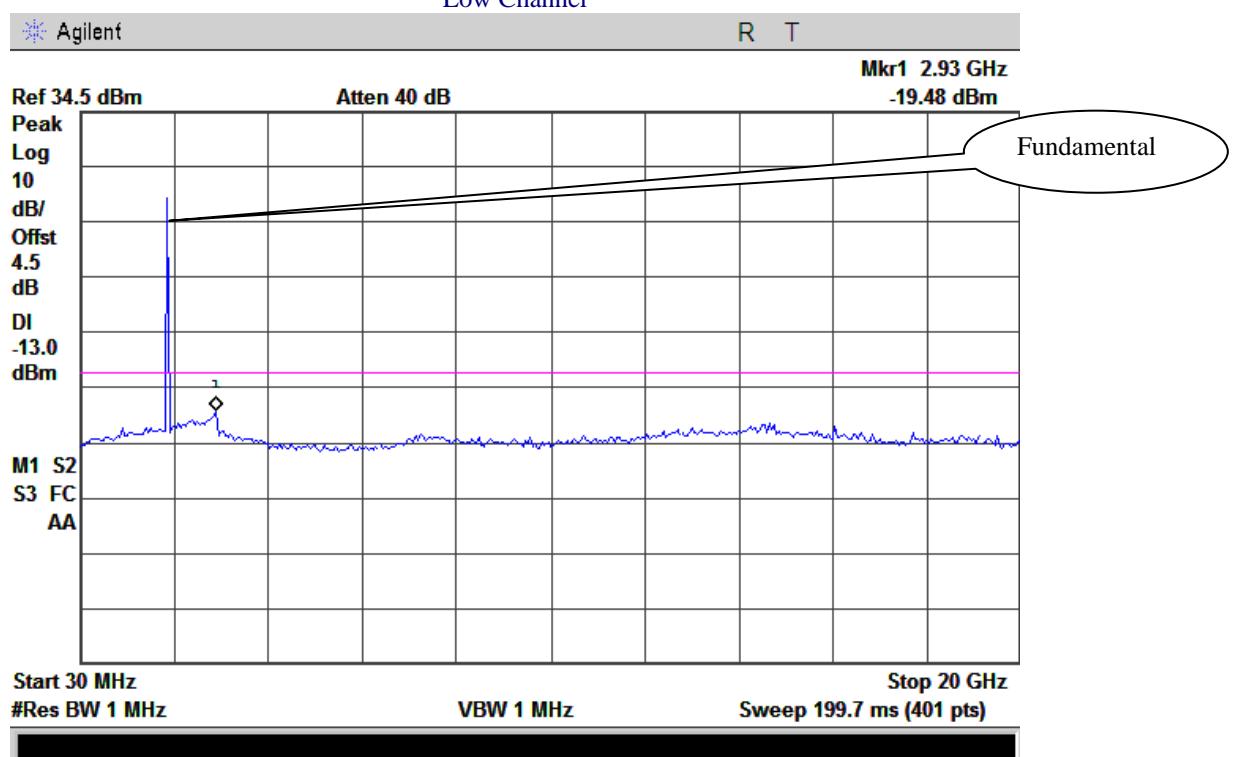
High Channel



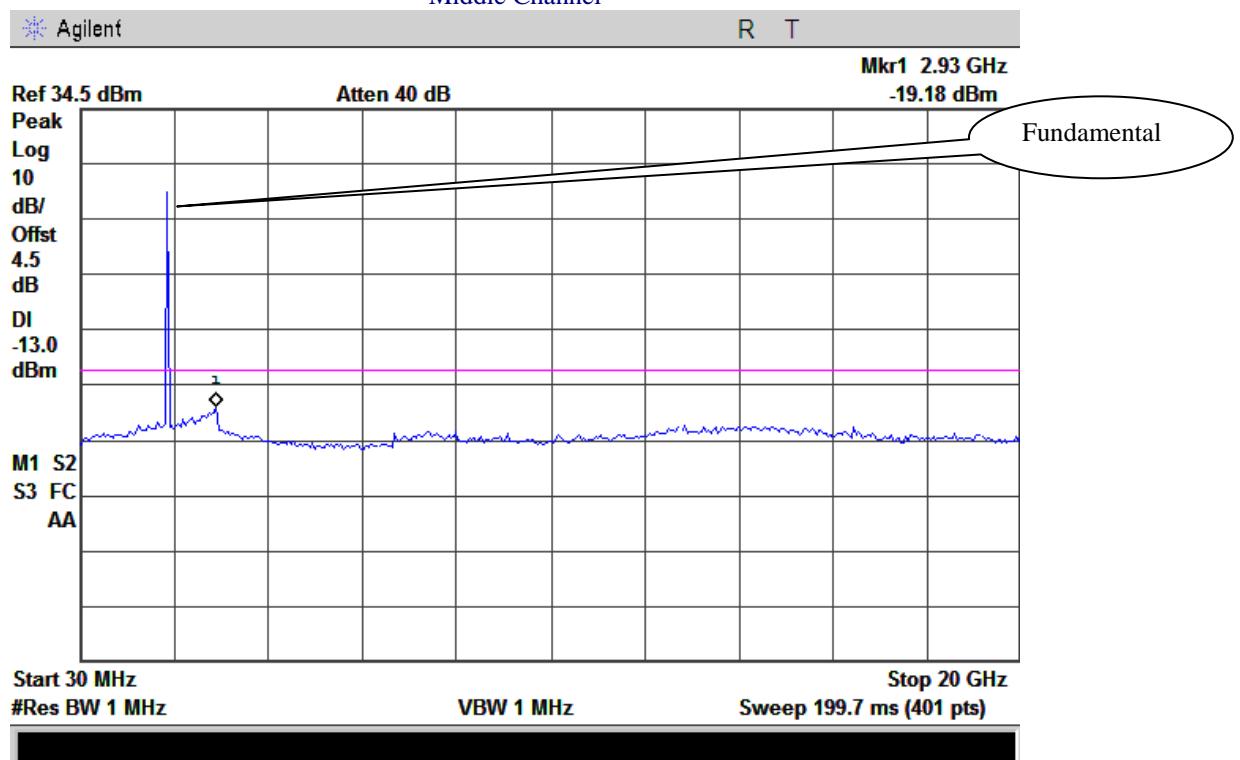
UMTS-FDD Band II (Part24E)

30MHz -25G – WCDMA1900

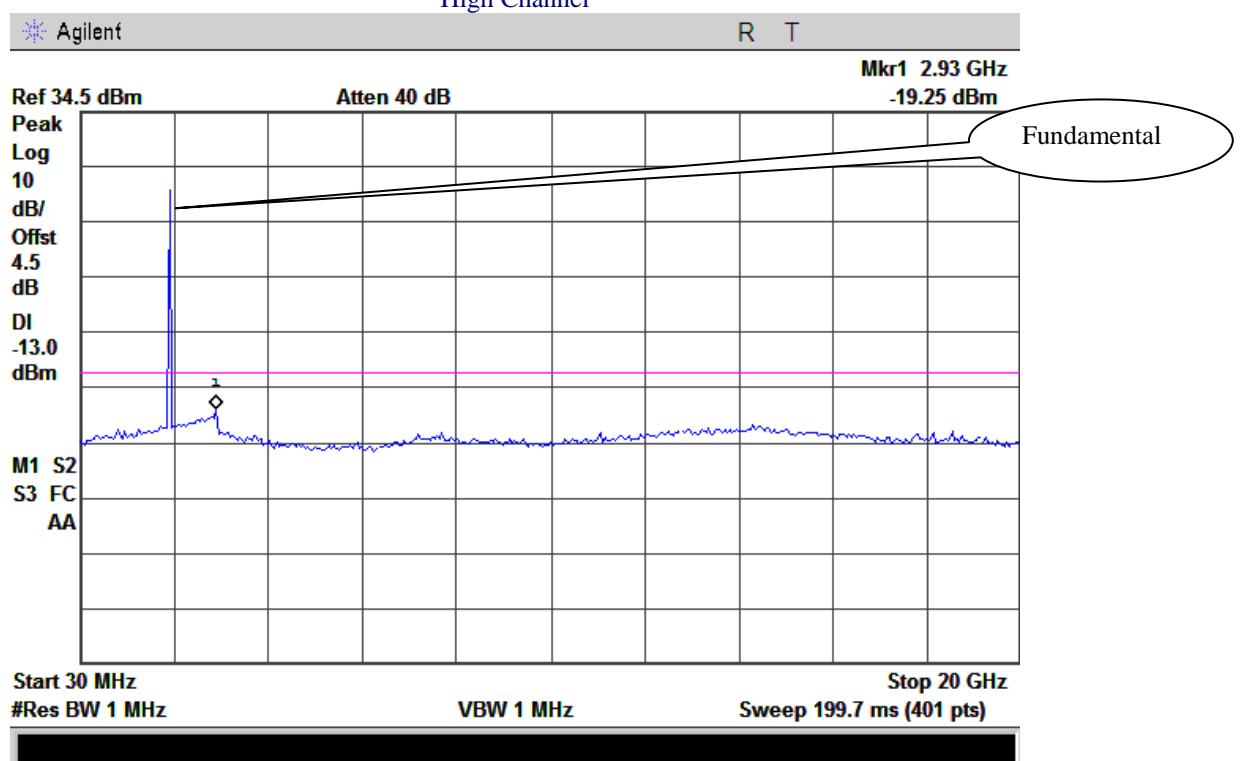
Low Channel



Middle Channel



High Channel



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.
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 1GHz – 40GHz is ± 6.0 dB (for EUTs < 0.5 m X 0.5m X 0.5m).
4. Environmental Conditions

Temperature	24°C
Relative Humidity	53%
Atmospheric Pressure	1012mbar
5. Test date : November 25, 2013
Tested By : Kahn Yang

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 10th harmonic.

Procedures: (According with TIA 603B)

1. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.
2. 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.
3. 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.

Sample Calculation:

EUT Field Strength (dBm) = Reading (Signal generator) + Antenna Gain (substitution antenna) - Cable loss (From Signal Generator to substitution antenna)

Test Result: Pass

Cellular Band (Part 22H)

Low channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (m)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1648.4	-33.26	320	1.2	V	7.95	0.78	0	-26.09	-13	-13.09
1648.4	-32.90	160	1.2	H	7.95	0.78	0	-25.73	-13	-14.76
458.2	-45.49	255	1.5	V	6.4	0.29	0	-39.38	-13	-29.59
325.7	-44.97	95	1.5	H	6.4	0.26	0	-38.83	-13	-28.92

Middle channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (m)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1673.2	-33.31	320	1.2	V	7.95	0.78	0	-26.14	-13	-13.14
1673.2	-32.77	160	1.2	H	7.95	0.78	0	-25.6	-13	-12.6
457.5	-45.35	255	1.5	V	6.4	0.29	0	-39.24	-13	-26.24
324.3	-44.88	95	1.5	H	6.4	0.26	0	-38.74	-13	-25.74

High channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (m)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1697.6	-33.25	320	1.2	V	7.95	0.78	0	-26.08	-13	-13.08
1697.6	-32.88	160	1.2	H	7.95	0.78	0	-25.71	-13	-12.71
458.7	-45.47	255	1.5	V	6.4	0.29	0	-39.36	-13	-26.36
323.3	-44.87	95	1.5	H	6.4	0.26	0	-38.73	-13	-25.73

PCS Band (Part 24E)

Low channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (m)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3700.4	-44.26	320	1.2	V	10.25	2.73	0	-36.74	-13	-23.74
3700.4	-47.13	160	1.2	H	10.25	2.73	0	-39.61	-13	-26.49
457.9	-47.01	255	1.5	V	6.4	0.29	0	-40.9	-13	-27.67
324.1	-47.98	95	1.5	H	6.4	0.26	0	-41.84	-13	-28.89

Middle channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (m)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-44.31	320	1.2	V	10.25	2.73	0	-36.79	-13	-23.79
3760	-46.92	160	1.2	H	10.25	2.73	0	-39.4	-13	-26.4
458.4	-46.99	255	1.5	V	6.4	0.29	0	-40.88	-13	-27.88
323.6	-47.92	95	1.5	H	6.4	0.26	0	-41.78	-13	-28.78

High channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (m)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3819.6	-43.87	320	1.2	V	10.36	2.73	0	-36.24	-13	-23.24
3819.6	-46.92	160	1.2	H	10.36	2.73	0	-39.29	-13	-26.29
459.7	-46.89	255	1.5	V	6.4	0.29	0	-40.78	-13	-27.78
322.4	-48.01	95	1.5	H	6.4	0.26	0	-41.87	-13	-28.87

UMTS-FDD Band V (Part 22H)

Low channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (m)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1652.8	-46.03	320	1.2	V	7.95	0.78	0	-38.86	-13	-25.86
1652.8	-48.14	160	1.2	H	7.95	0.78	0	-40.97	-13	-27.97
458.7	-54.25	255	1.5	V	6.4	0.29	0	-48.14	-13	-35.14
323.5	-53.56	95	1.5	H	6.4	0.26	0	-47.42	-13	-34.42

Middle channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (m)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1670	-46.12	320	1.2	V	7.95	0.78	0	-38.95	-13	-25.95
1670	-48.22	160	1.2	H	7.95	0.78	0	-41.05	-13	-28.05
458.2	-54.32	255	1.5	V	6.4	0.29	0	-48.21	-13	-35.21
323.7	-53.51	95	1.5	H	6.4	0.26	0	-47.37	-13	-34.37

High channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (m)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1693.2	-45.95	320	1.2	V	7.95	0.78	0	-38.78	-13	-25.78
1693.2	-47.26	160	1.2	H	7.95	0.78	0	-40.09	-13	-27.09
458.3	-54.11	255	1.5	V	6.4	0.29	0	-48	-13	-35
323.6	-54.38	95	1.5	H	6.4	0.26	0	-48.24	-13	-35.24



SIEMIC, INC.
Accessing global markets

Title: RF Test Report for MID
Main Model: T-101
Serial Model: N/A
To: FCC Part 22(H) & FCC Part 24(E): 2013

Report No: 13070542-FCC-R1
Issue Date: December 02, 2013
Page: 35 of 65
www.siemic.com.cn

UMTS-FDD Band II (Part 24E)

Low channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (m)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3704.8	-46.20	320	1.2	V	10.25	2.73	0	-38.68	-13	-25.68
3704.8	-45.91	160	1.2	H	10.25	2.73	0	-38.39	-13	-25.39
456.8	-47.33	255	1.5	V	6.4	0.29	0	-41.22	-13	-28.22
323.9	-47.56	95	1.5	H	6.4	0.26	0	-41.42	-13	-28.42

Middle channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (m)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-46.21	320	1.2	V	10.25	2.73	0	-38.69	-13	-25.69
3760	-45.89	160	1.2	H	10.25	2.73	0	-38.37	-13	-25.37
457.7	-46.87	255	1.5	V	6.4	0.29	0	-40.76	-13	-27.76
324.9	-47.42	95	1.5	H	6.4	0.26	0	-41.28	-13	-28.28

High channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (m)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3815.2	-45.96	320	1.2	V	10.36	2.73	0	-38.33	-13	-25.33
3815.2	-46.03	160	1.2	H	10.36	2.73	0	-38.4	-13	-25.4
236.9	-47.54	255	1.5	V	6.4	0.29	0	-41.43	-13	-28.43
272.9	-47.27	95	1.5	H	6.4	0.26	0	-41.13	-13	-28.13

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 ± 1.5 dB.
3. Environmental Conditions

Temperature	24°C
Relative Humidity	56%
Atmospheric Pressure	1012mbar
4. Test date : November 25, 2013
Tested By : Kahn Yang

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.
3. Details according with KDB 971168 section 6.0.

Test Result: Pass

Refer to the attached plots.

Cellular Band (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9800	-13.80	-13
849.0150	-15.43	-13

PCS Band (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9775	-18.04	-13
1910.0200	-16.20	-13

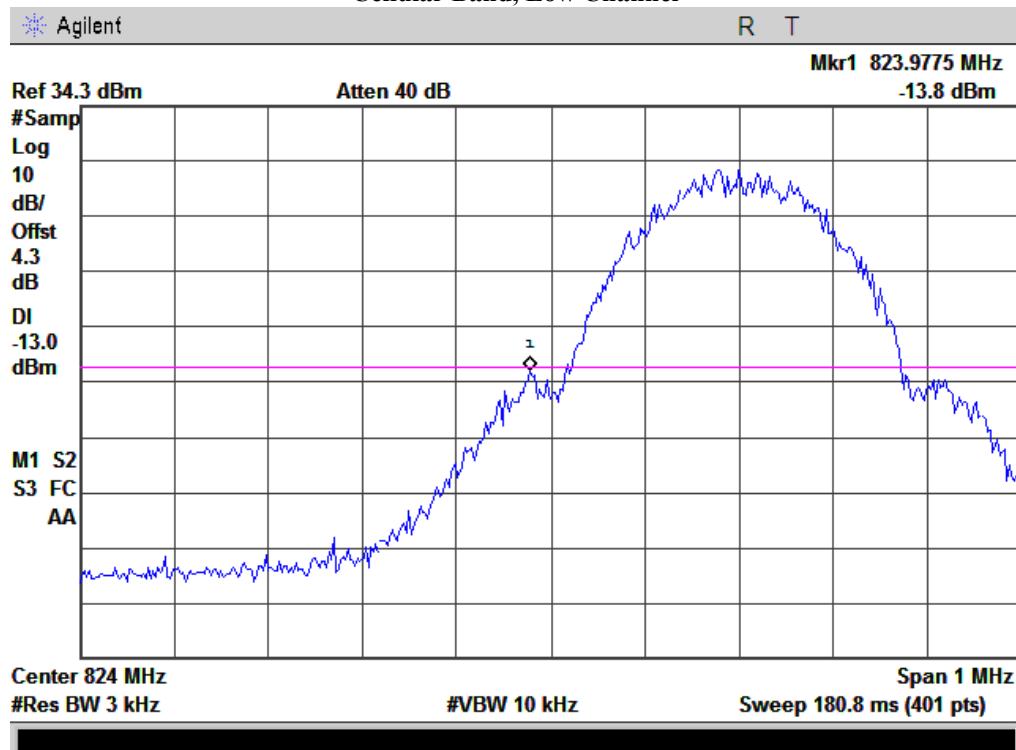
UMTS-FDD Band V (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
824.000	-22.34	-13
849.000	-22.11	-13

UMTS-FDD Band II (Part 24E)

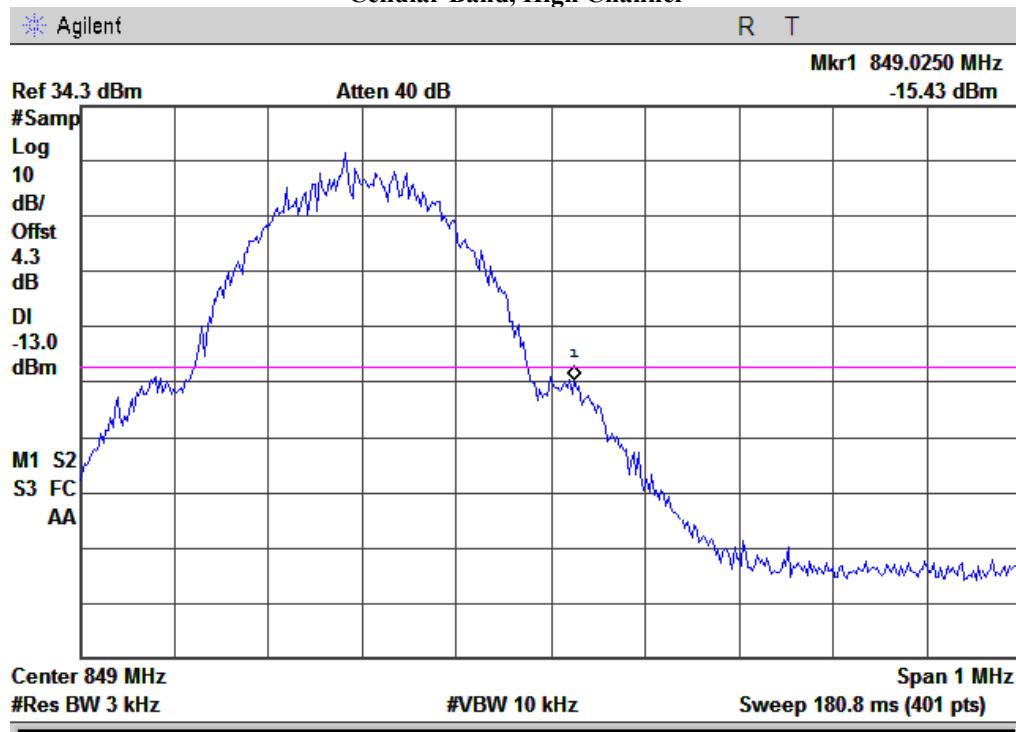
Frequency (MHz)	Emission (dBm)	Limit (dBm)
1850.000	-16.77	-13
1910.000	-21.77	-13

Cellular Band, Low Channel



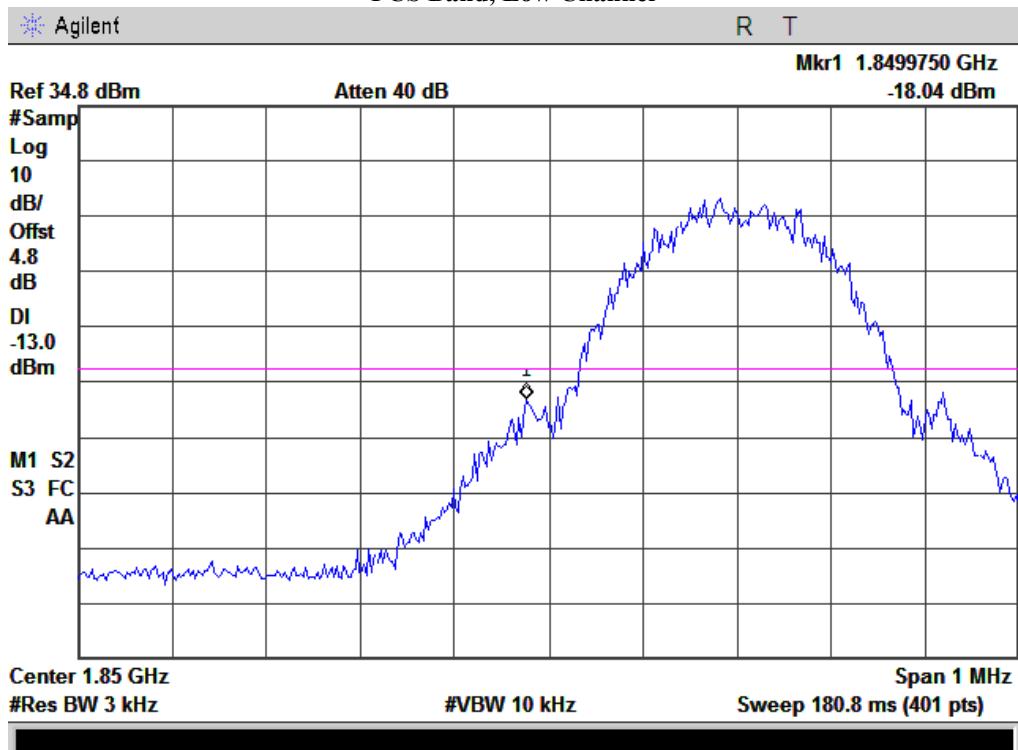
Note: Offset=Cable loss (4.0) + 10log (3.22/3)=4.0+0.3=4.3 dB

Cellular Band, High Channel



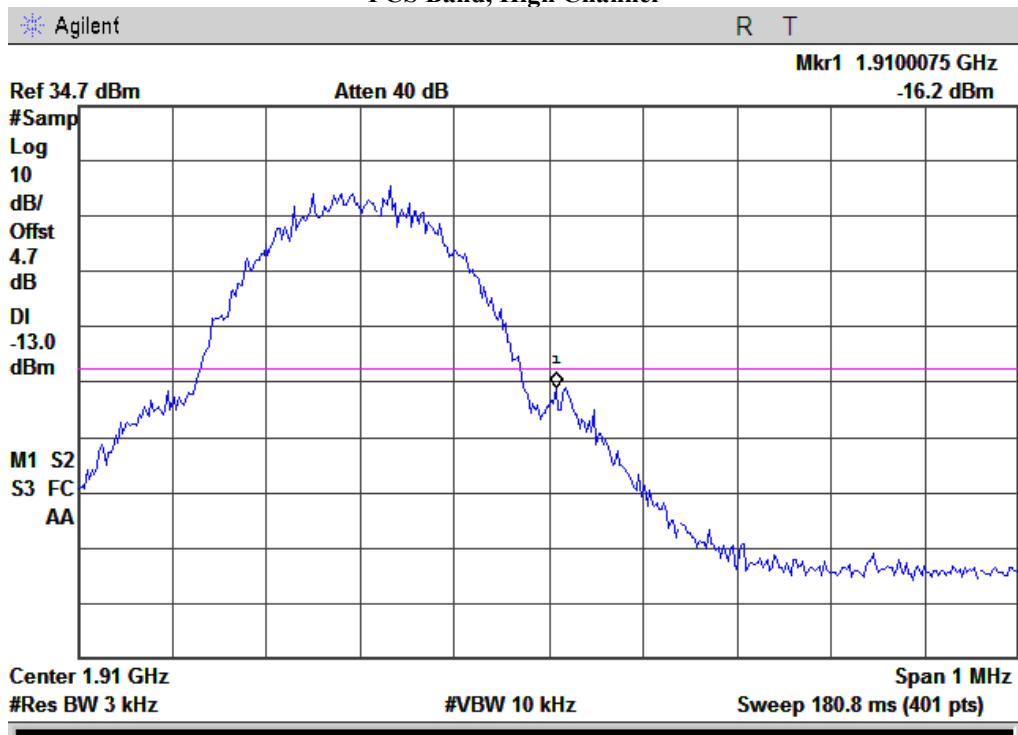
Note: Offset=Cable loss (4.0) + 10log (3.28/3)=4.0+0.3=4.3 dB

PCS Band, Low Channel



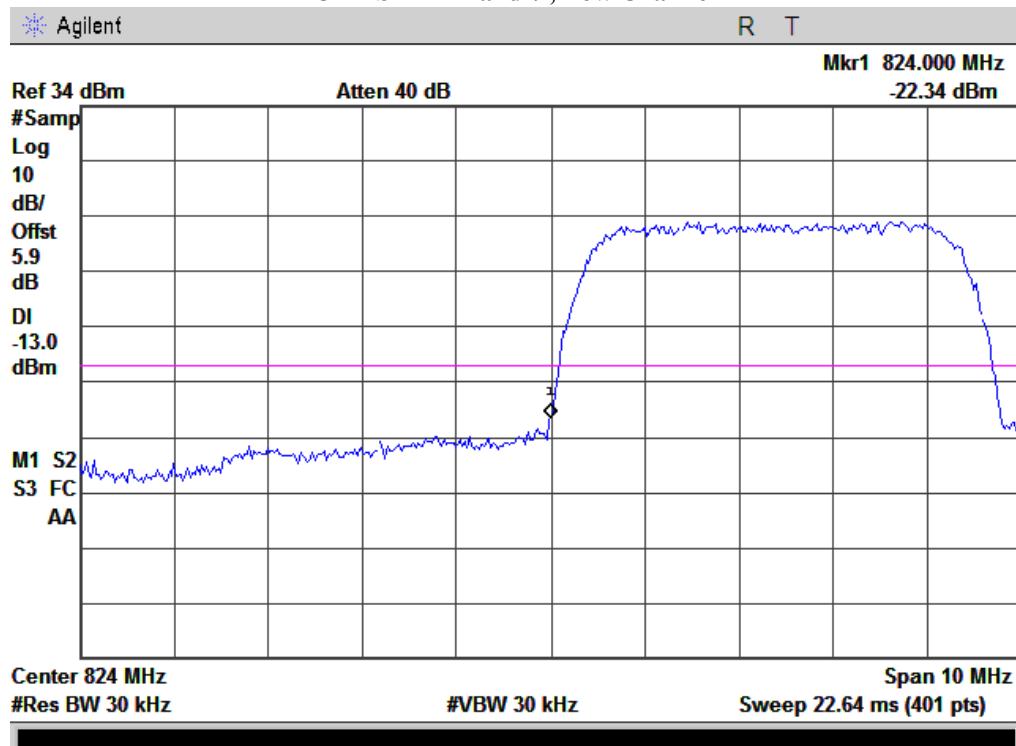
Note: Offset=Cable loss (4.5) + 10log (3.19/3)=4.5+0.3=4.8 dB

PCS Band, High Channel



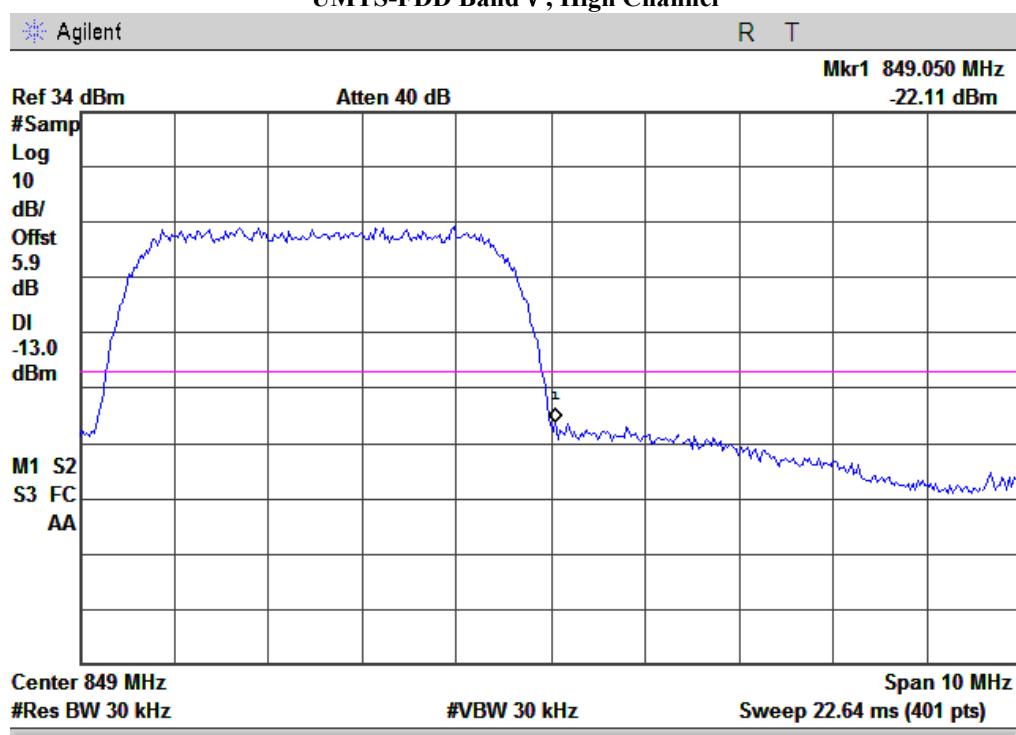
Note: Offset=Cable loss (4.5) + 10log (3.16/3)=4.5+0.2=4.7 dB

UMTS-FDD Band V, Low Channel



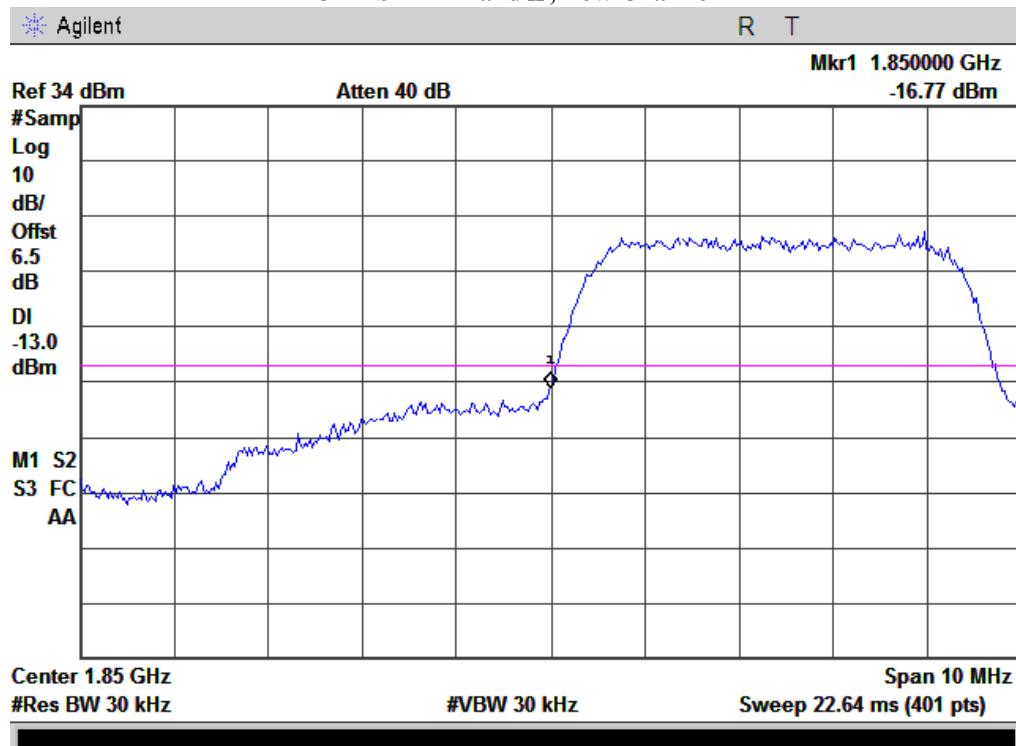
Note: Offset=Cable loss (4.0) + 10log (46.5/30)=4.0+1.9=5.9dB

UMTS-FDD Band V, High Channel



Note: Offset=Cable loss (4.0) + 10log (46.6/30)=4.0+1.9=5.9dB

UMTS-FDD Band II, Low Channel



Note: Offset=Cable loss (4.5) + 10log (47.8/30)=4.5+2=6.5dB

UMTS-FDD Band II, High Channel



Note: Offset=Cable loss (4.5) + 10log (46.7/30)=4.5+1.9=6.4dB

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

1.	Environmental Conditions	Temperature	24°C
		Relative Humidity	56%
		Atmospheric Pressure	1010mbar
2.	Test date : November 26, 2013		
	Tested By : Kahn Yang		

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 $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

Test Results: Pass

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, $f_0 = 836.6$ MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	17	0.0190	2.5
0		19	0.0212	2.5
10		21	0.0251	2.5
20		22	0.0262	2.5
30		20	0.0250	2.5
40		20	0.0250	2.5
50		23	0.0299	2.5
55		27	0.0345	2.5
25	4.2	21	0.0250	2.5
	3.5	23	0.0274	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	3.7	17	0.0090	2.5
0		20	0.0106	2.5
10		29	0.0153	2.5
20		27	0.0149	2.5
30		34	0.0180	2.5
40		30	0.0162	2.5
50		20	0.0106	2.5
55		15	0.0090	2.5
25	4.2	22	0.0117	2.5
	3.5	26	0.0141	2.5

UMTS-FDD Band V (Part 22H)

Middle Channel, $f_o = 835$ MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	12	0.0132	2.5
0		15	0.0168	2.5
10		10	0.0119	2.5
20		15	0.0179	2.5
30		13	0.0156	2.5
40		20	0.0240	2.5
50		17	0.0228	2.5
55		17	0.0202	2.5
25	4.2	17	0.0200	2.5
	3.5	15	0.0179	2.5

UMTS-FDD Band II (Part 24E)

Middle Channel, $f_o = 1880$ MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.7	6	0.0035	2.5
0		-1	-0.0004	2.5
10		7	0.0048	2.5
20		-3	-0.0015	2.5
30		9	0.0048	2.5
40		7	0.0042	2.5
50		3	0.0037	2.5
55		7	0.0046	2.5
25	4.2	8	0.0047	2.5
	3.5	-2	-0.0010	2.5



Annex A. TEST INSTRUMENT & METHOD

Annex A. i. TEST INSTRUMENTATION & GENERAL PROCEDURES

Instrument	Model	Serial #	Calibration Date	Calibration Due Date
RF conducted test				
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	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	11/19/2014
Positioning Controller	UC3000	MF780208282	11/19/2013	11/19/2014
OPT 010 AMPLIFIER(0.1-1300MHz)	8447E	2727A02430	11/19/2013	11/19/2014
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
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	04/22/2014
Tunable Notch Filter	3NF-800/1000-S	AA4	12/14/2013	12/13/2014
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

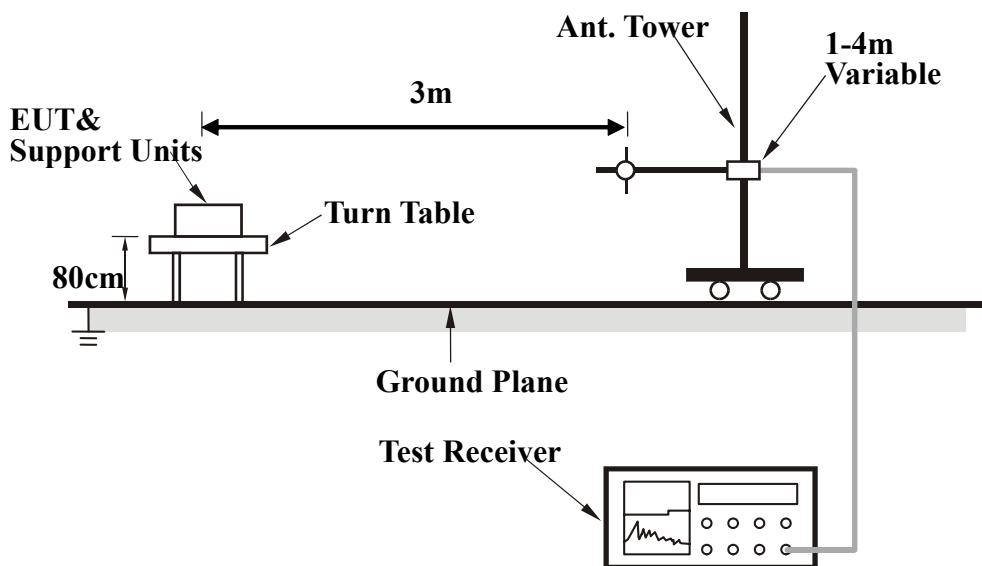
EUT Characterisation

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

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

Test Set-up

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



Test Method

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

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

Final Radiated Emission Measurement

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

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

Frequency Band (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

Description of Radiated Emission Program

This EMC Measurement software run Lab View 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:

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

where

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

And the average value is

$$\text{Average} = \text{Peak Value} + \text{Duty Factor or}$$

$$\text{Set RBW} = 1\text{MHz}, \text{VBW} = 10\text{Hz}.$$

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

Title: RF Test Report for MID

Main Model: T-101

Serial Model: N/A

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

Report No: 13070542-FCC-R1

Issue Date: December 02, 2013

Page: 49 of 65

www.siemic.com.cn



EUT - Front View



EUT - Rear View

Title: RF Test Report for MID

Main Model: T-101

Serial Model: N/A

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

Report No: 13070542-FCC-R1

Issue Date: December 02, 2013

Page: 50 of 65

www.siemic.com.cn



EUT - Top View



EUT - Bottom View



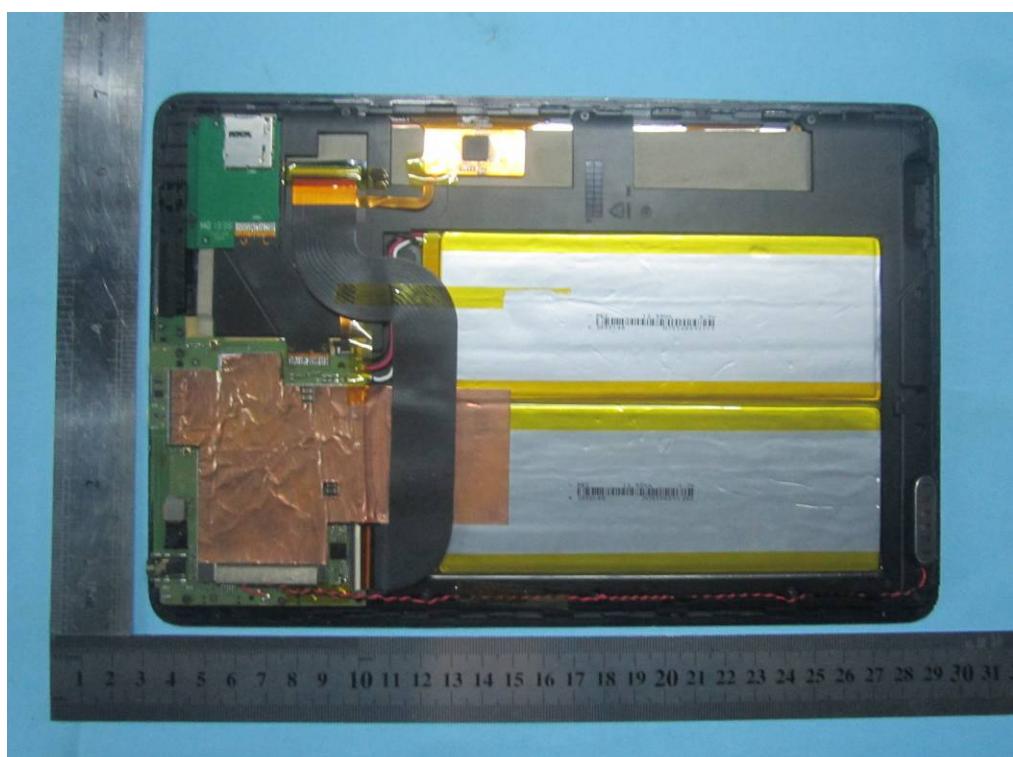
EUT - Left View



EUT - Right View

Annex B.ii. Photograph 2: EUT Internal Photo

Cover Off - Front View 1



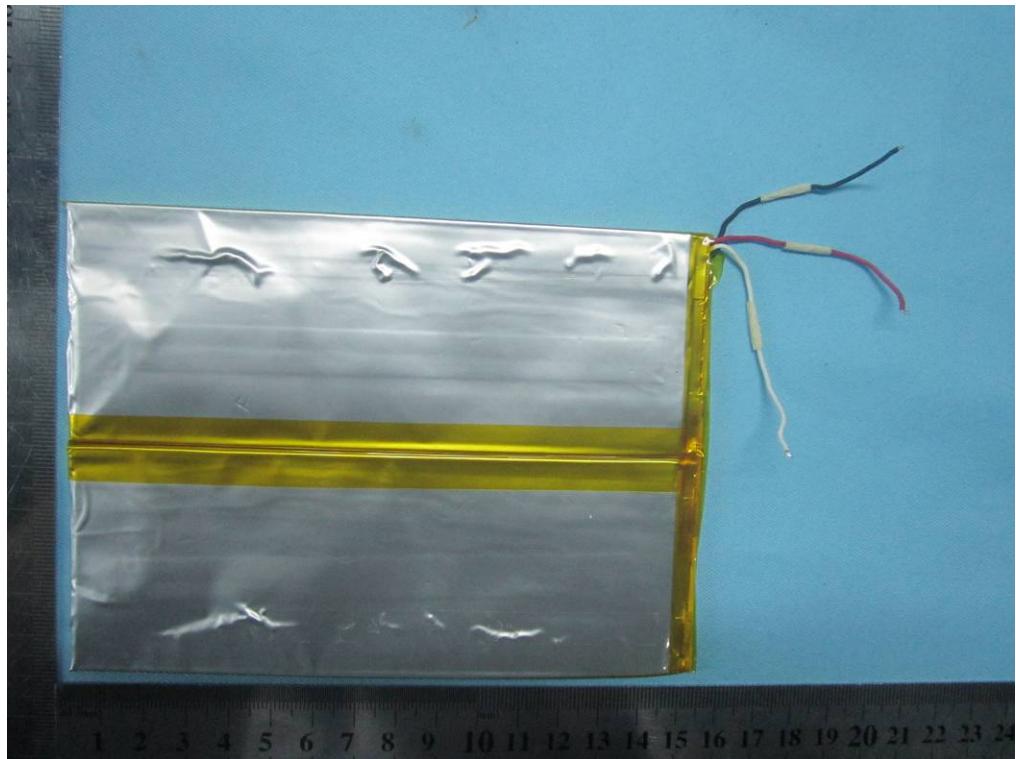
Cover Off - Front View 2



Adapter – Top View



Battery - Top View



Battery - Bottom View



EUT- Uncover Front View

Title: RF Test Report for MID

Main Model: T-101

Serial Model: N/A

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

Report No: 13070542-FCC-R1

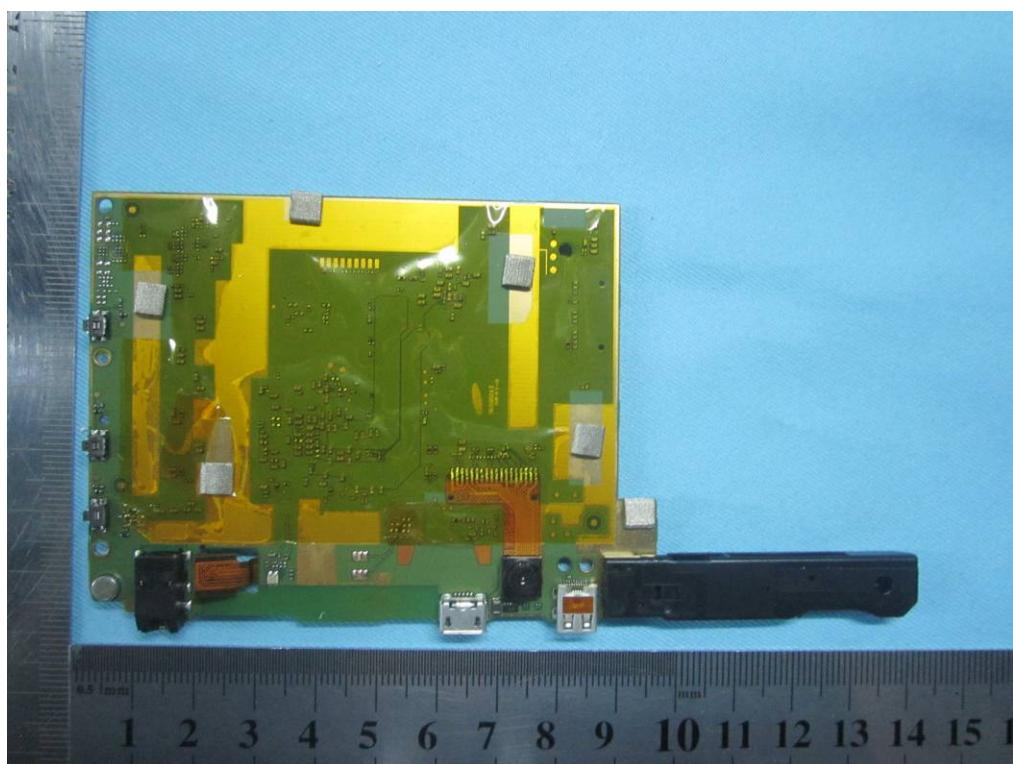
Issue Date: December 02, 2013

Page: 55 of 65

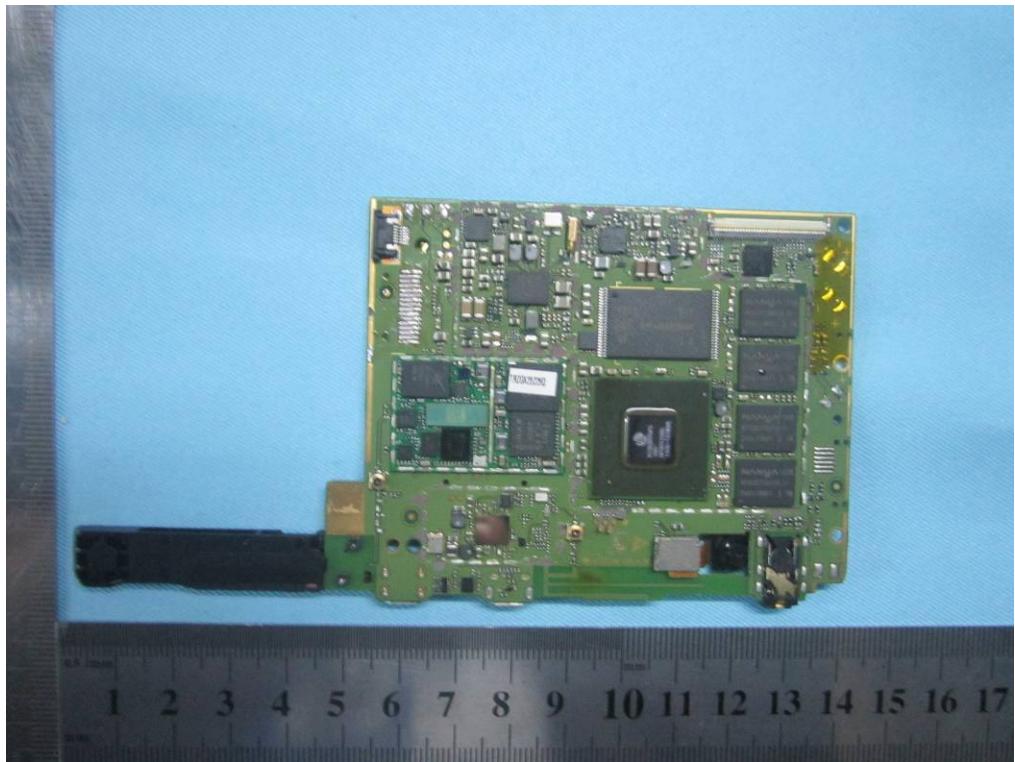
www.siemic.com.cn



Main board With Shielding - Top View



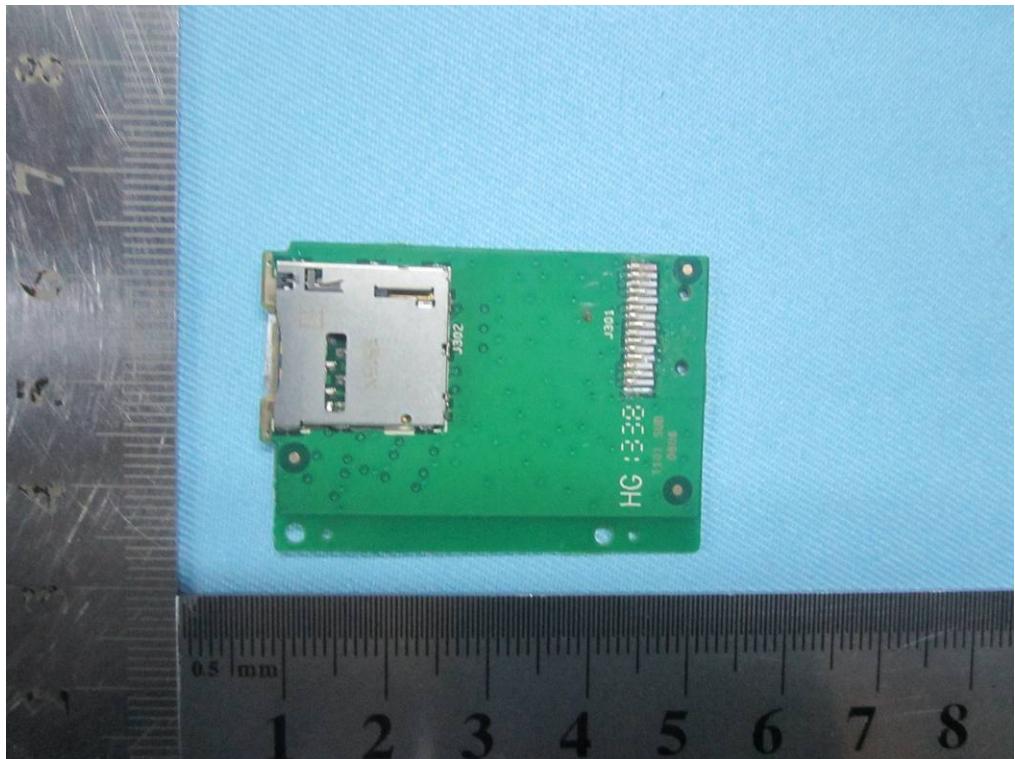
Main board - Bottom View



Main board Without Shielding - Bottom View



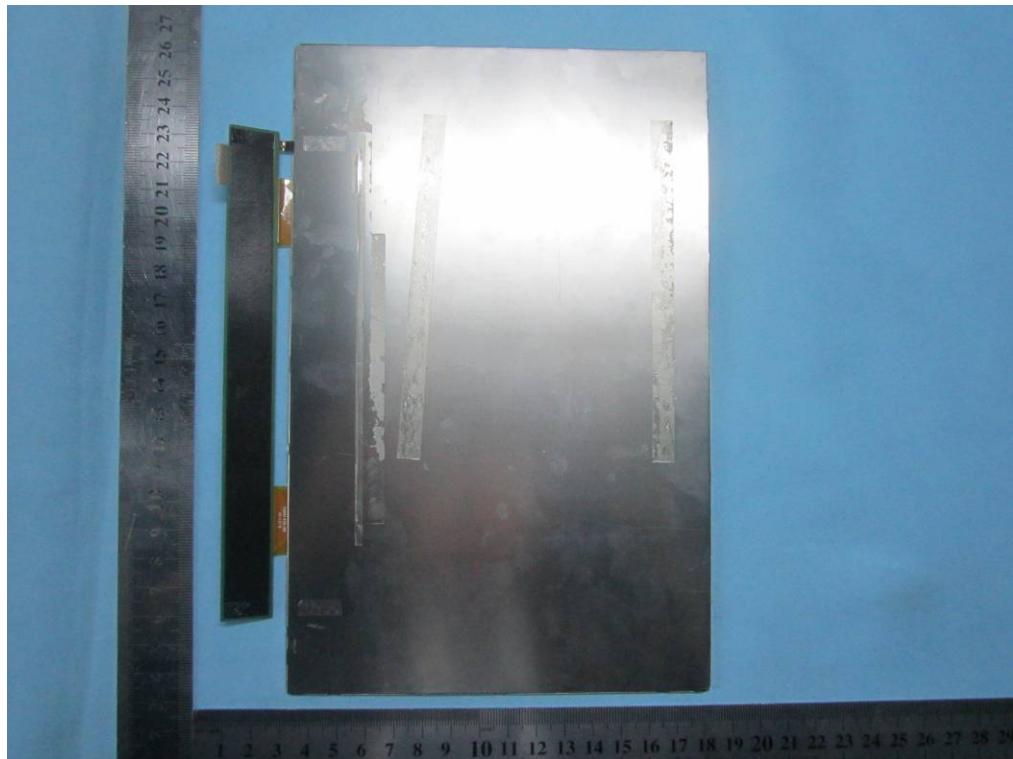
Connect board – Top View



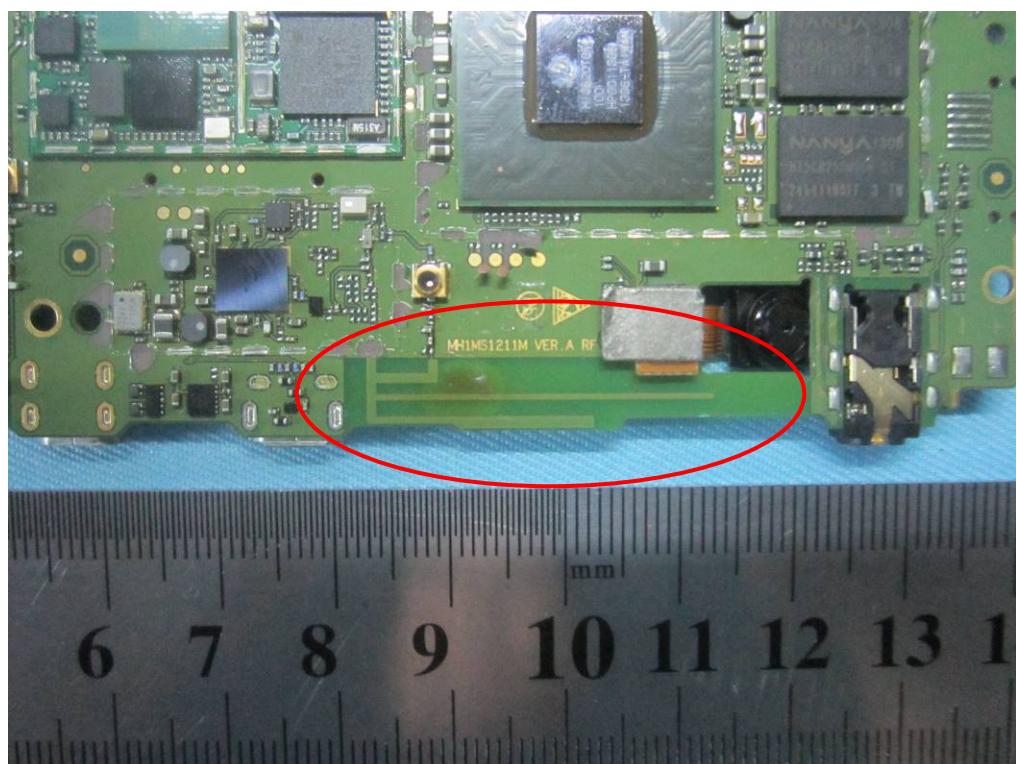
Connect board – Bottom View



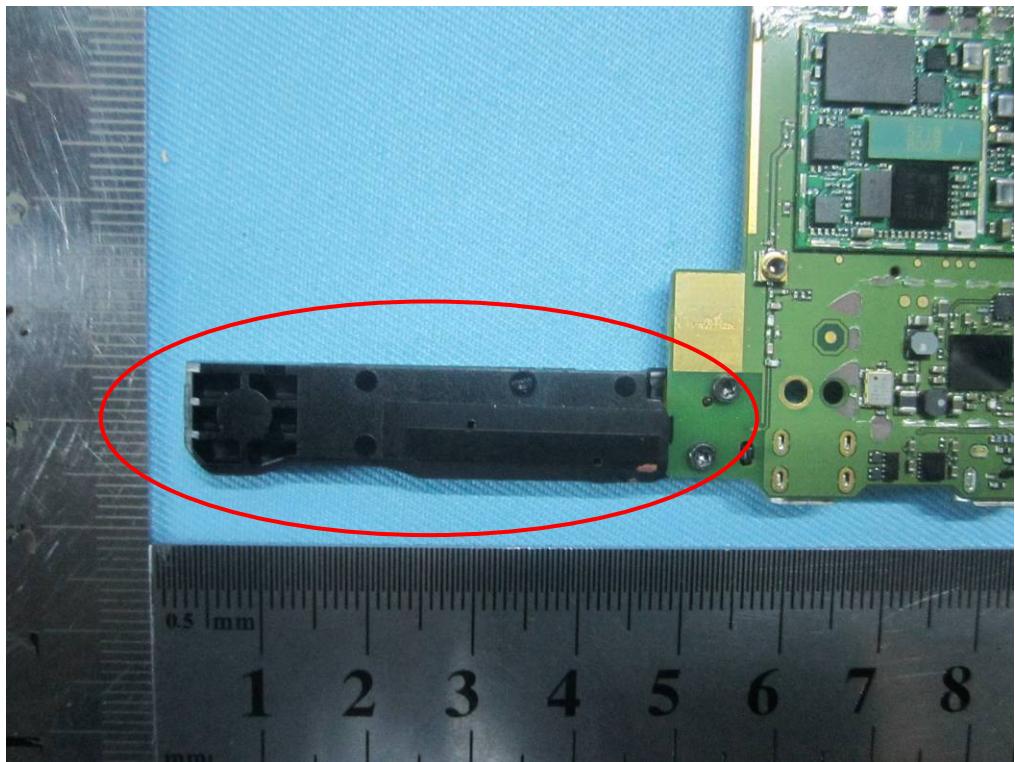
LCD – Top View



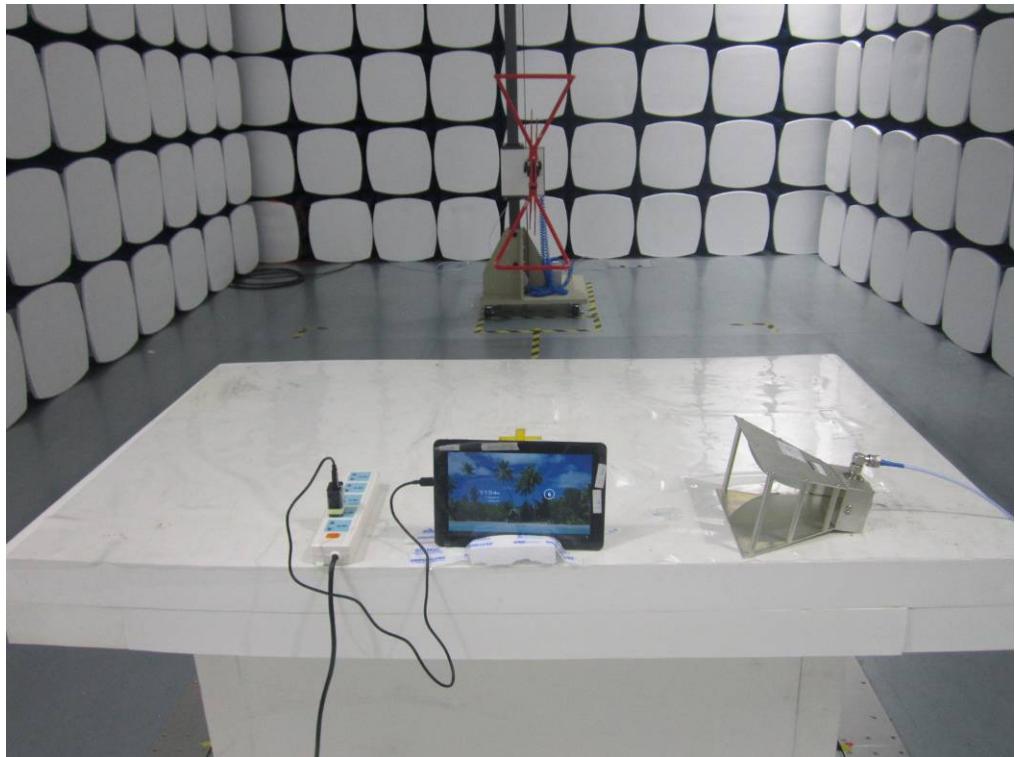
LCD – Bottom View



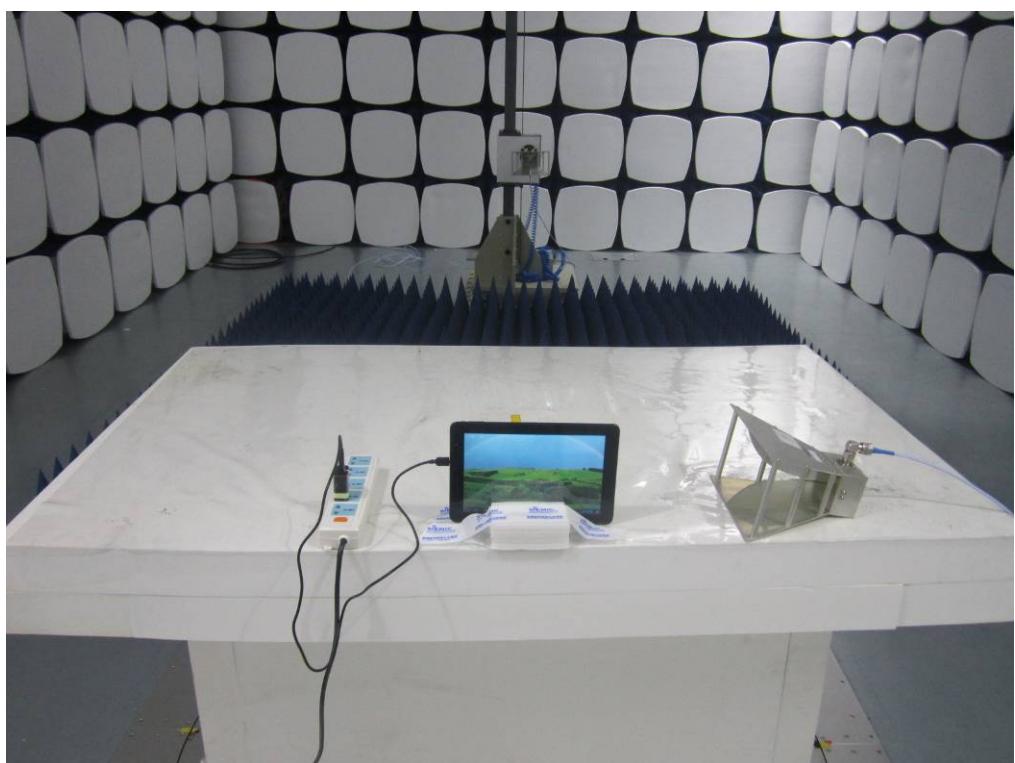
Bluetooth / BLE / WIFI Antenna View



GSM / PCS/ UMTS Antenna View

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

Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

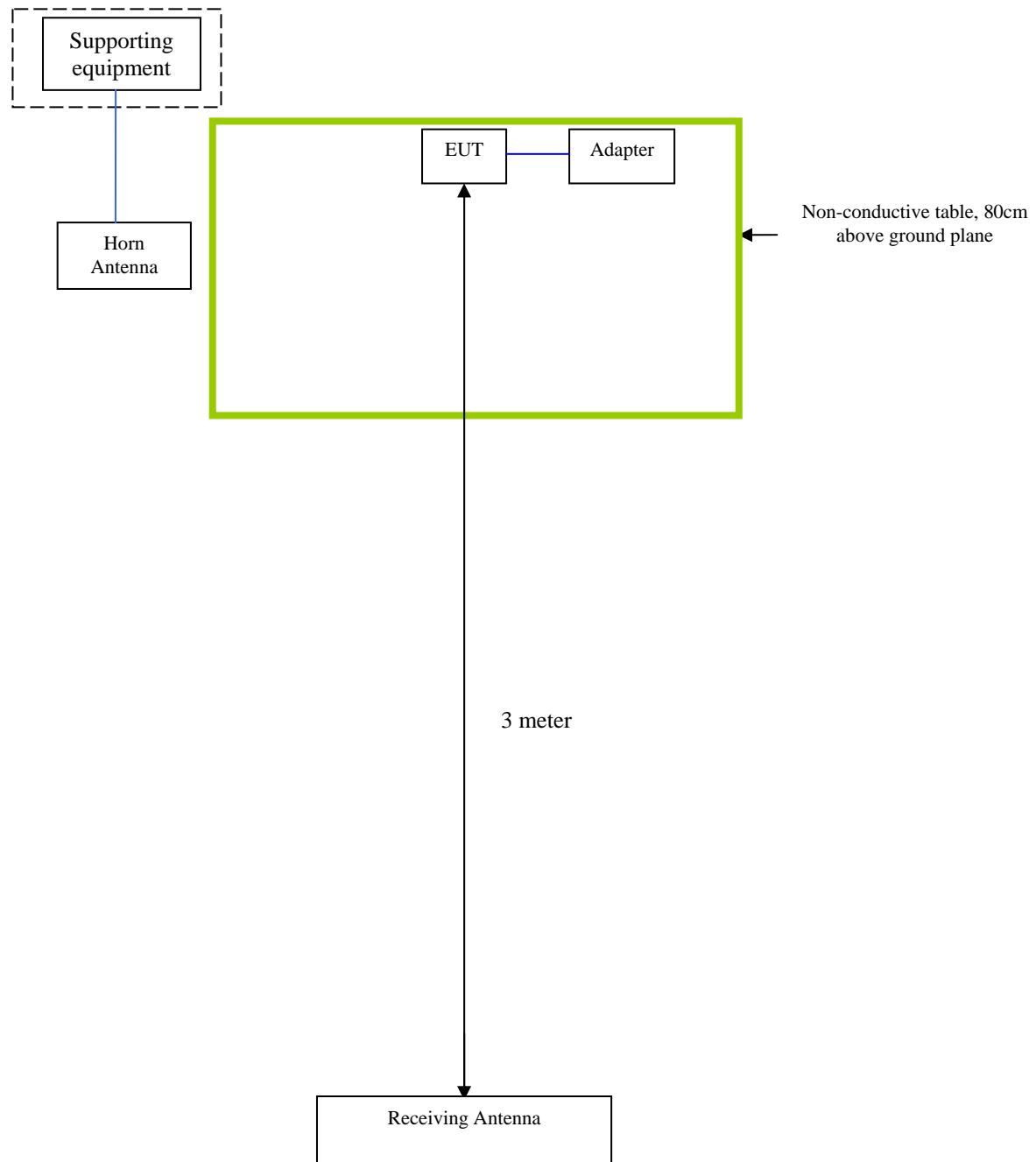
EUT TEST CONDITIONS

Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

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

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

Block Configuration Diagram for Radiated Emissions



Annex C. ii. EUT OPERATING CONDITIONS

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

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.



SIEMIC, INC.

Accessing global markets

Title: RF Test Report for MID
Main Model: T-101
Serial Model: N/A
To: FCC Part 22(H) & FCC Part 24(E): 2013

Report No: 13070542-FCC-R1
Issue Date: December 02, 2013
Page: 64 of 65
www.siemic.com.cn

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

Please see attachment



SIEMIC, INC.

Accessing global markets

Title: RF Test Report for MID

Main Model: T-101

Serial Model: N/A

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

Report No: 13070542-FCC-R1

Issue Date: December 02, 2013

Page: 65 of 65

www.siemic.com.cn

Annex E. DECLARATION OF SIMILARITY

N/A