

TEST REPORT

REPORT NUMBER: I08GE5152-FCC-EMC

ON

Type of Equipment: GSM/GPRS Mobile phone
Type of Designation: Mega4
Manufacturer: Ezze Mobile Tech

ACCORDING TO

**FCC CFR Part 2, FREQUENCY ALLOCATIONS AND RADIO
TREATY MATTERS; GENERAL RULES AND REGULATIONS;
e-CFR, March 23, 2006
PART 24, PERSONAL COMMUNICATIONS SERVICES (Oct 1, 97
Edition)**

China Telecommunication Technology Labs.

Month date, year
May, 25, 2008

Signature



He Guili
Director

FCC ID: RV2MEGA4

Report Date: 2008-05-25

Test Firm Name: China Telecommunication Technology Labs

Registration Number: 840587

Statement

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Parts 2, and 24. The sample tested was found to comply with the requirements defined in the applied rules.

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1 General Information

1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Parts 2 and 24.

The test results of this test report relate exclusively to the item(s) tested as specified in section 2.

The following deviation from, additions to, or exclusions from the test specifications have been made. See Annex C.

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FCC Parts 2, 24
Equipment: Mega4

REPORT NO.: 108GE5152-FCC-EMC

1.2 Testers

Name: Li Dongjin
Position: Engineer
Department: Department of EMC test
Signature: 

Name: Lv Ke
Position: Engineer
Department: Department of EMC test
Signature: 

Editor of this test report:

Name: Li Guoqing
Position: Engineer
Department: Department of EMC test
Date: 2008-05-25
Signature: 

Technical responsibility for area of testing:

Name: Zou Dongyi
Position: Manager
Department: Department of EMC test
Date: 2008-05-25
Signature: 

1.3 Testing Laboratory information

1.3.1 Location

Name: China Telecommunication Technology Labs.

Address: No. 11, Yue Tan Nan Jie, Xi Cheng District
BEIJING

P. R. CHINA, 100083

Tel: +86 10 68094053

Fax: +86 10 68011404

Email: emc@chinattl.com

1.3.2 Details of accreditation status

Accredited by: China National Accreditation Service for Conformity
Assessment (CNAS)

Registration number: CNAS Registration No. CNAS L0570

Standard: ISO/IEC 17025:2005

1.3.3 Test location, where different from section 1.3.1

Name: -----

Street: -----

City: -----

Country: -----

Telephone: -----

Fax: -----

Postcode: -----

1.4 Details of applicant or manufacturer

1.4.1 Applicant

Name: Ezze Mobile Tech
Address: 1F, Bubmusa Bldg., 151-31,
Nonhyun-dong, Kangnam-ku, Seoul
Country: Korea
Telephone: 82-2-519-7805
Fax: 82-2-519-7882
Contact: Anny
Telephone: 82-10-9265-2189
Email: eosahn@ezzemobile.com

1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Name: --
Address: --
City: --
Country: --

1.4.3 Manufactory (if different from applicant in section 1.4.1)

Name: Ezze Mobile Tech
Address: 608 BL 17-1 LT, 633-6, Seonggok-Dong,
Danwon-Gu, Ansan-City, Gyeonggi-Do (425-833)

2 Test Item

2.1 General Information

Manufacturer: Ezze Mobile Tech

Name: GSM/GPRS Mobile phone

Model Number: MEGA4

Serial Number: --

Production Status: Product

Receipt date of test item: 2008-5-12

2.2 Outline of EUT

E.U.T. is a GSM/GPRS Mobile phone and operation frequency band is 1900 MHz band.

2.3 Modifications Incorporated in EUT

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

2.4 Equipment Configuration

Equipment configuration list:

Item	Generic Description	Manufacturer	Type	Serial No.	Remarks
A	handset	Ezze Mobile Tech	MEGA4	--	None
B	adapter	Yu Feng	USB Type	--	None
C	battery	Zhi-in	Li-ion	--	None
D	Headset	Rich star	Wire Type(stereo)	--	None

Cables:

Item	Cable Type	Manufacturer	Length	Shield	Quantity	Remarks
1	DC cable on Adapter	Unknown	1.0 m	No	1	None

2.5 Other Information

(a) Modulation is GMSK.

(b) Emission Designator is 277KGXW.

(c) Version of hardware and software

HW Version: V 0.1

SW Version: V 0.1

(d) Adaptor Information:

Input: 100-240VAC 50-60Hz

Output: 5.0Vdc, 1.0A

(e) Battery Information:

3.7VDC 750mAh

Test Report

3 Summary of Test Results

A brief summary of the tests carried out is shown as following.

GSM mode:		
Specification Clause	Name of Test	Result
2.1051, 24.238,	Radiated Spurious Emission	Pass
2.1046,24.232	Radiated RF Power Output	Pass
2.1049 24.238(b)	Occupied Bandwidth	*Note 1
2.1055, 24.235	Frequency Stability over Temperature Variation	Pass
2.1055, 24.235	Frequency Stability over Voltage Variation	Pass
2.1046,24.232(c)	Conducted RF Power Output	Pass
2.1051,24.238	Conducted spurious emissions	Pass
Note 1: No applicable performance criteria.		

GPRS mode:		
Specification Clause	Name of Test	Result
2.1051, 24.238,	Radiated Spurious Emission	Pass
2.1046,24.232	Radiated RF Power Output	Pass
2.1049 24.238(b)	Occupied Bandwidth	*Note 2
2.1055, 24.235	Frequency Stability over Temperature Variation	Pass
2.1055, 24.235	Frequency Stability over Voltage Variation	Pass
2.1046,24.232(c)	Conducted RF Power Output	Pass
2.1051,24.238	Conducted spurious emissions	Pass
Note 2: No applicable performance criteria.		

4 Test Results of mode

4.1 Radiated Spurious Emission

Specifications:	2.1051, 24.238					
Date of Tests	2008-05-16					
Test conditions:	Ambient Temperature: 15°C -35°C Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 661					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-03	Normal
7330	Ultra Broadband Antenna	R/S	HL562	100013	2008-07-24	Normal
7330	Double-Ridged Horn Antenna	R/S	HF906	100037	2009-01-14	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3 m	--	2010-11-17	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2008-06-13	Normal
111835	Wireless Communications Test Set	R&S	CMU200	1100000802	--	Normal

Limit Level Construction:

According to Part 24.238 (a), i.e., Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB, so the limit level is:
 $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$

Limits for Radiated spurious emissions(UE)

Frequency range	Limit Level /Resolution Bandwidth
30 MHz to 20000 MHz	-13dBm/1MHz

Test Setup:

The EUT was placed in an anechoic chamber, see figure SP. The Wireless Communications Test Set was used to set the TX channel and power level and modulate the TX signal with different bit patterns. The test was done using an automated test system, where all test equipments were controlled by a computer.

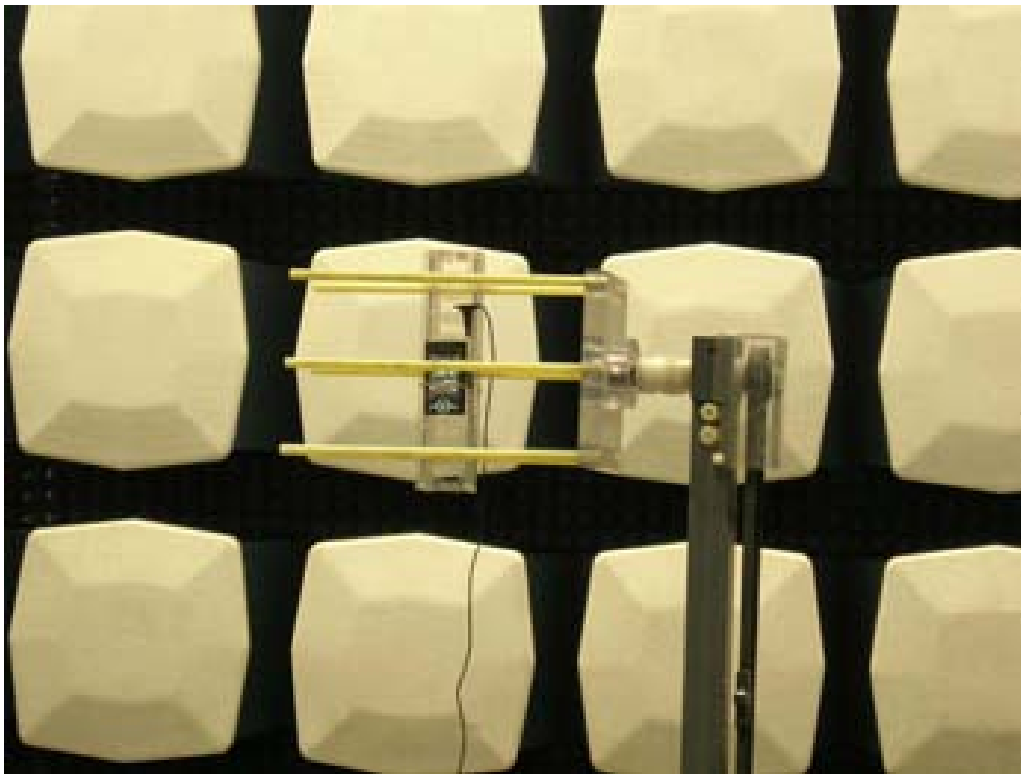


Figure SP

Test Method:

The measurement was performed accordance with section 2.2.12 of ANSI/TIA-603-B-2002: *Land Mobile FM or PM Communications Equipment Measurement and Performance Standards*.

- 1 The maximum spurious emissions were searched by turning the azimuth of the turntable, shifting the polarization of the measuring antenna and changing the pose of the EUT.
- 2 Levels of EUT's transmitter harmonics and suspicious signals were recorded.
- 3 The recorded levels were corrected in the automated test system with the correction factors given by a substitution calibration made before the measurement. The calibration was made separately for vertical and horizontal polarization and the system uses different correction factors depending on the measuring antenna polarization.
- 4 The corrected values of radiated spurious emissions indicated as EIRP are reported.

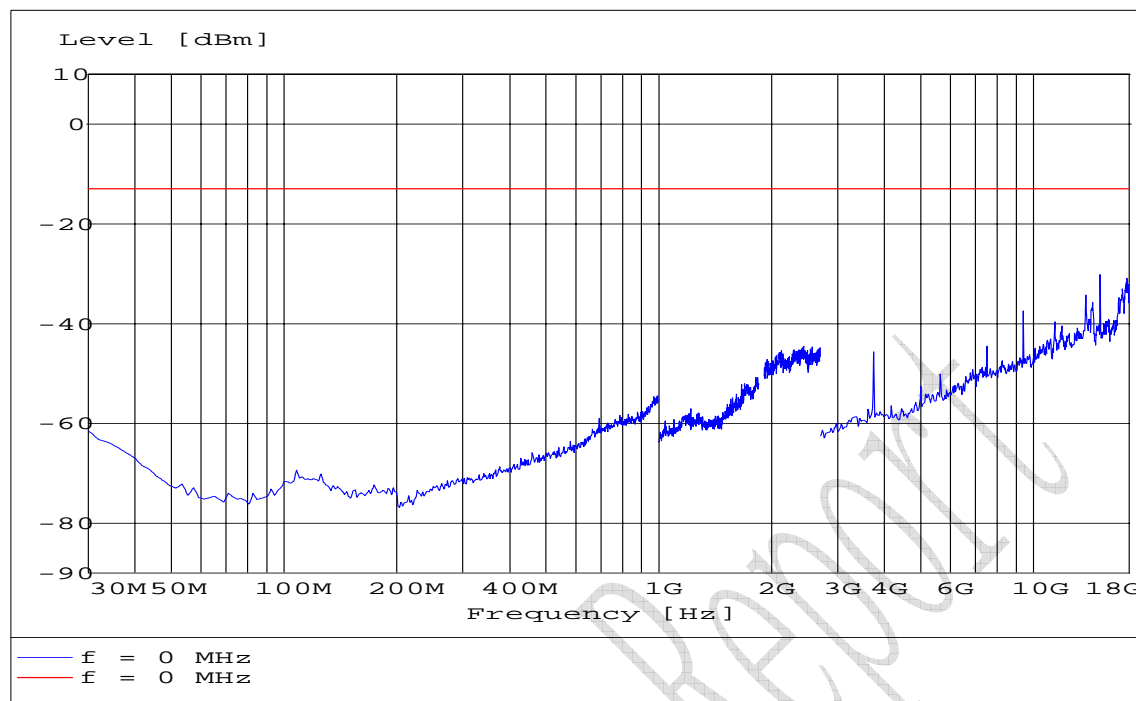
Note:

- 1 The investigated ARFCNs are 661 (1880.0 MHz).
- 2 The investigated frequency range is 30 MHz ~ 18 GHz, including out of band emission and band-edge emission measurements.

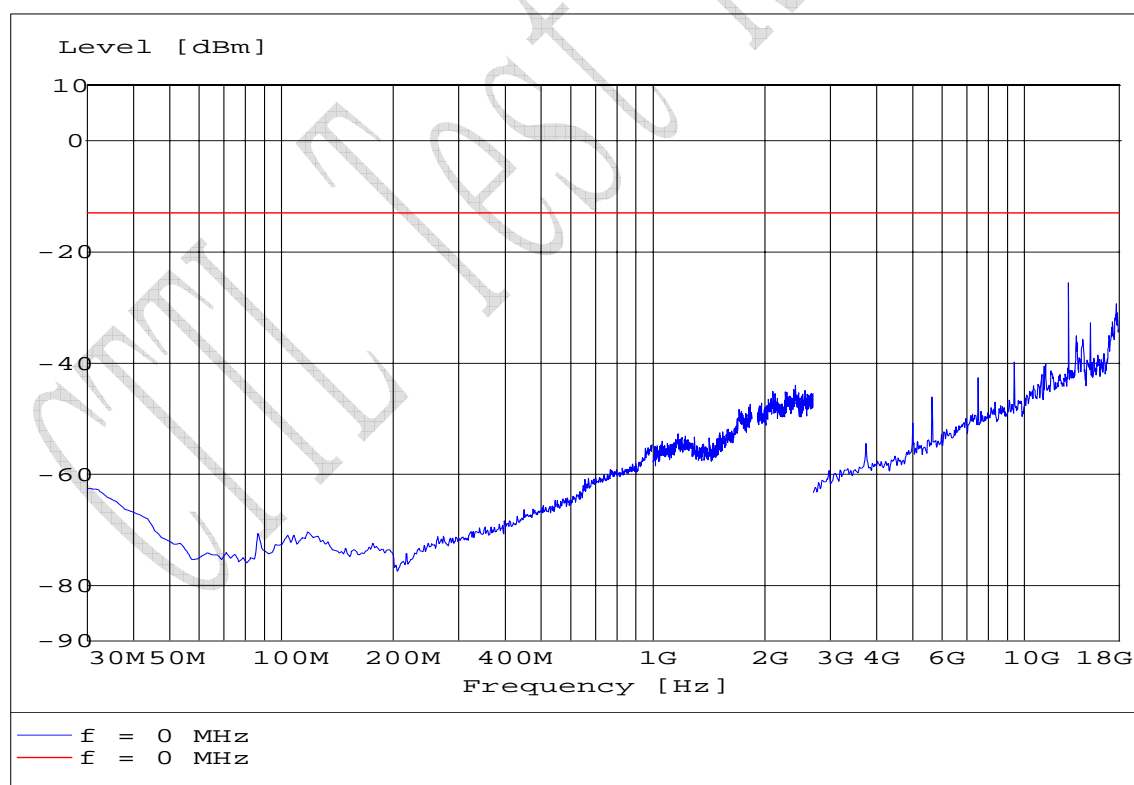
FCC Parts 2, 24
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Test Results for GSM mode:



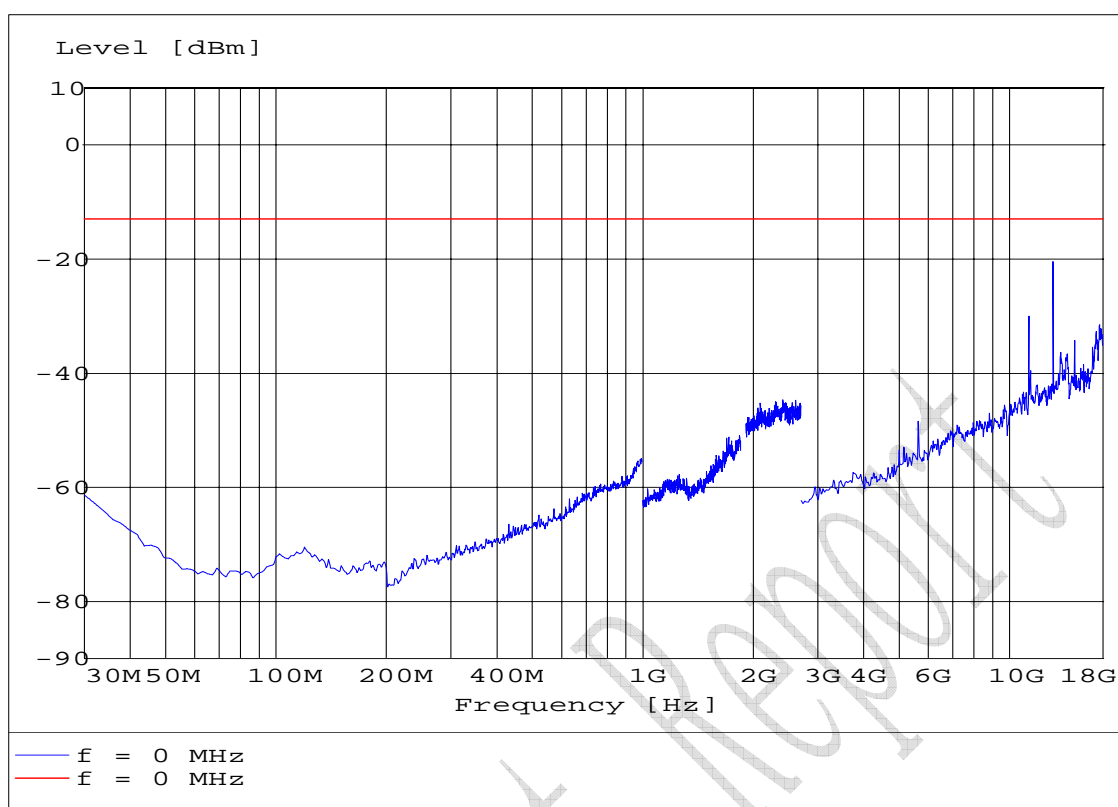
S661VF for GSM mode



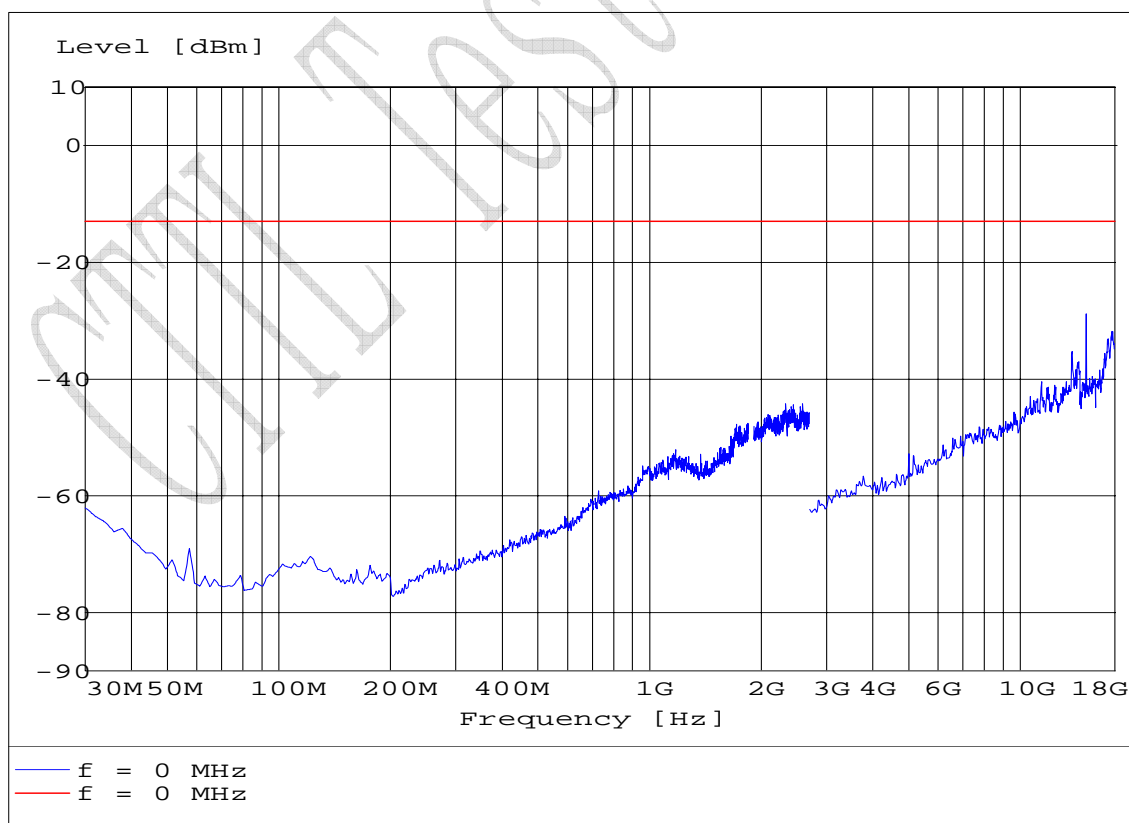
S661HF for GSM mode

FCC Parts 2, 24
Equipment: Mega4

REPORT NO.: I08GE5152-FCC-EMC



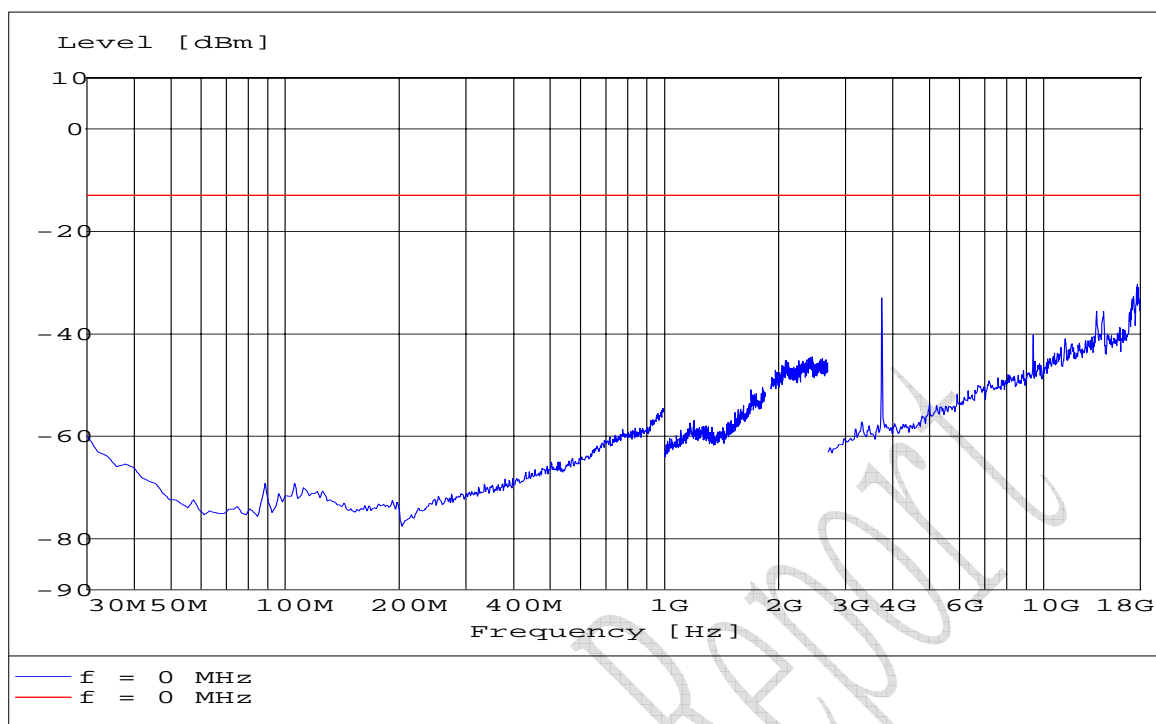
S661VT for GSM mode



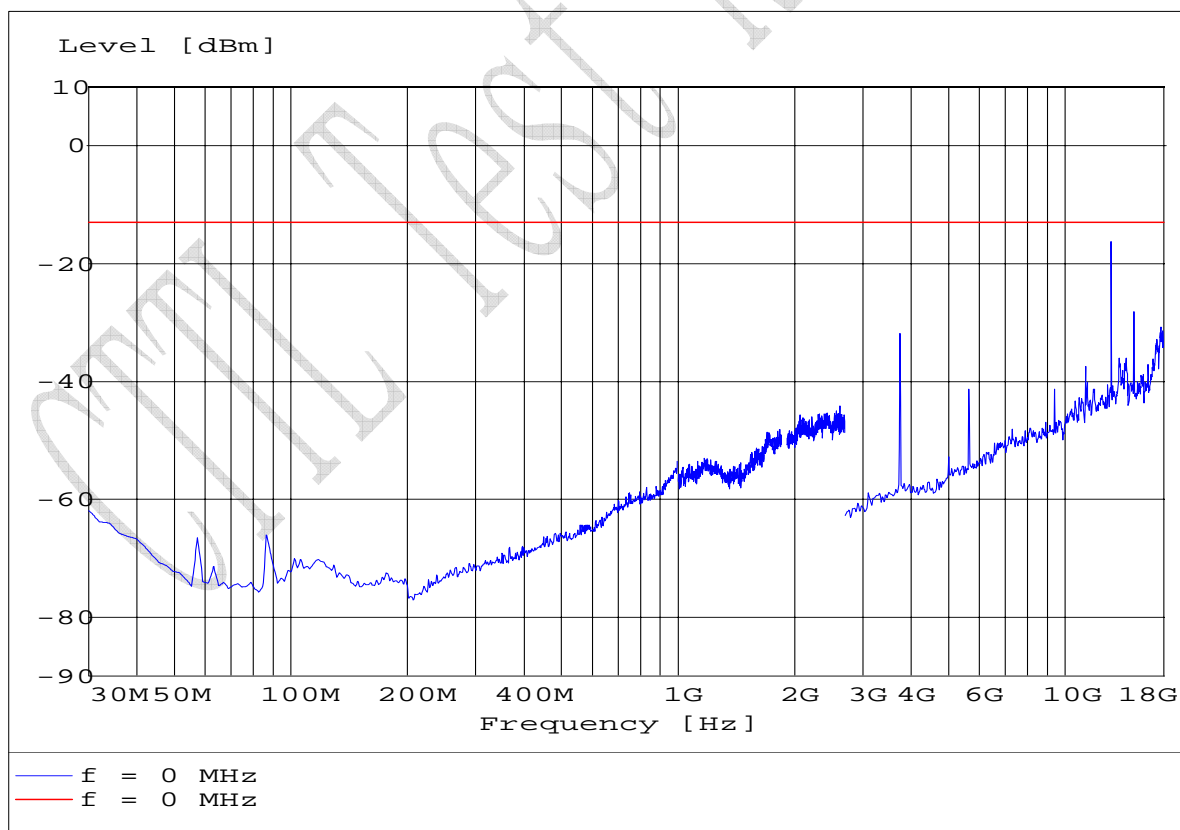
S661HT for GSM mode

FCC Parts 2, 24
Equipment: Mega4

REPORT NO.: I08GE5152-FCC-EMC



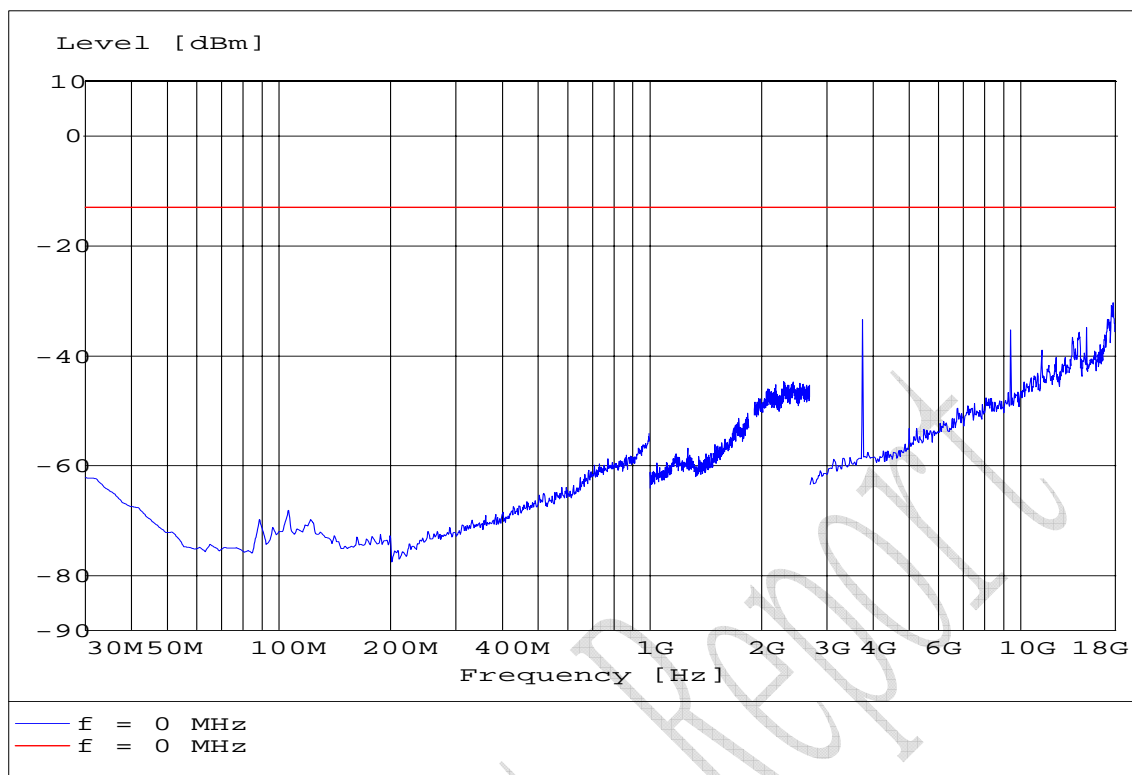
S661VF for GPRS mode



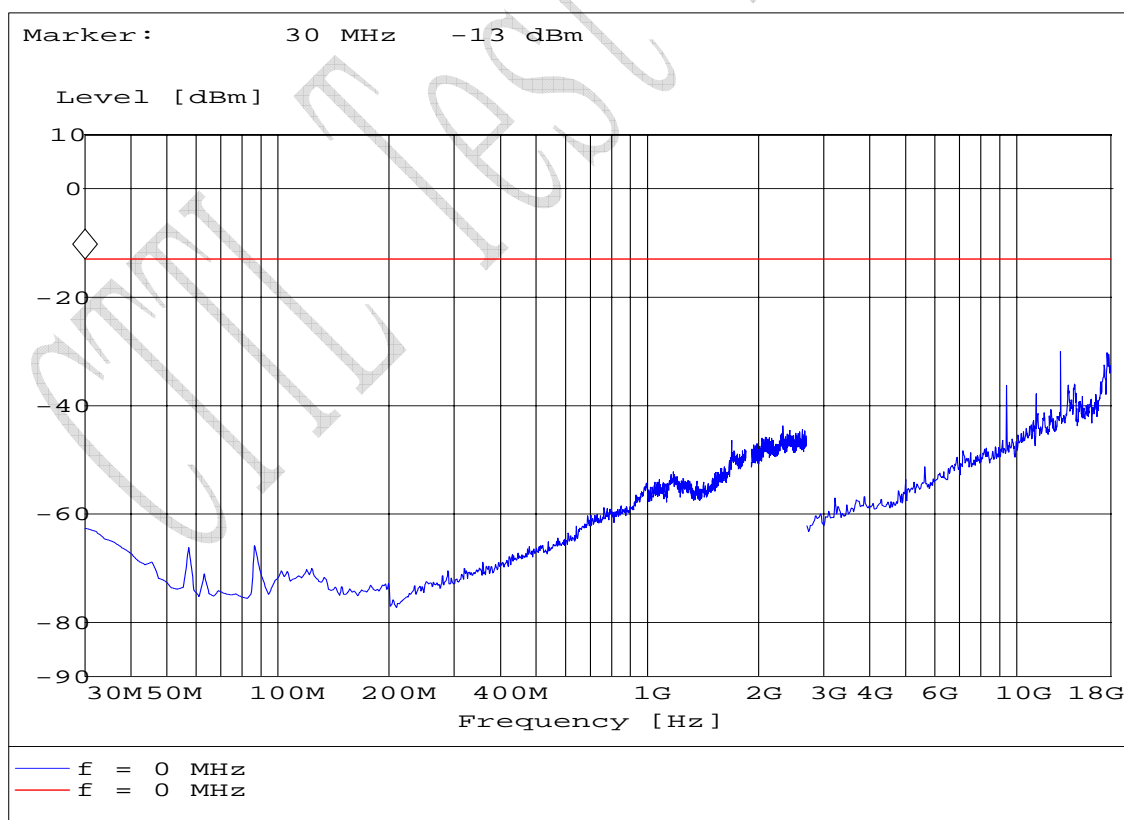
S661HF for GPRS mode

FCC Parts 2, 24
Equipment: Mega4

REPORT NO.: I08GE5152-FCC-EMC



S661VT for GPRS mode



S661HT for GPRS mode

FCC Parts 2, 24
Equipment: Mega4

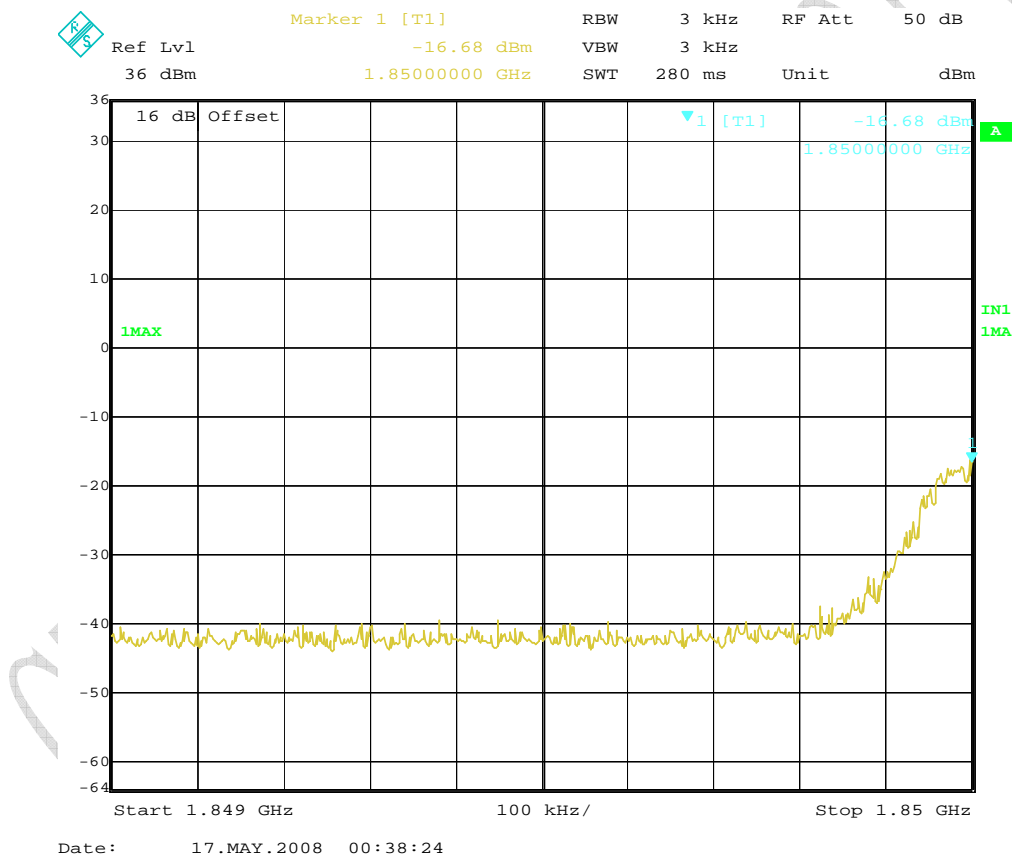
REPORT NO.: I08GE5152-FCC-EMC

Band-edge emission for GSM mode

EUT Channel	Frequency [MHz]	Level [dBm]
512 Left band edge	1850.000	-16.68
810 Right band edge	1910.000	-15.01

Band-edge emission for GPRS mode

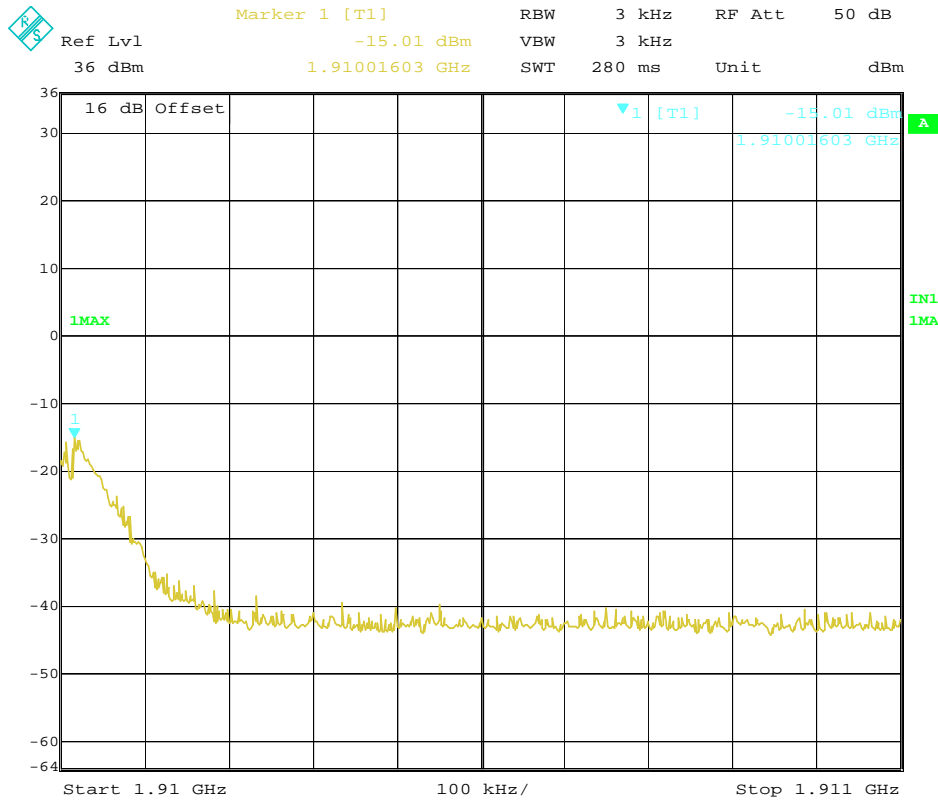
EUT Channel	Frequency [MHz]	Level [dBm]
512 Left band edge	1850.000	-16.77
810 Right band edge	1910.000	-15.95



Left band edge of ch512 for GSM

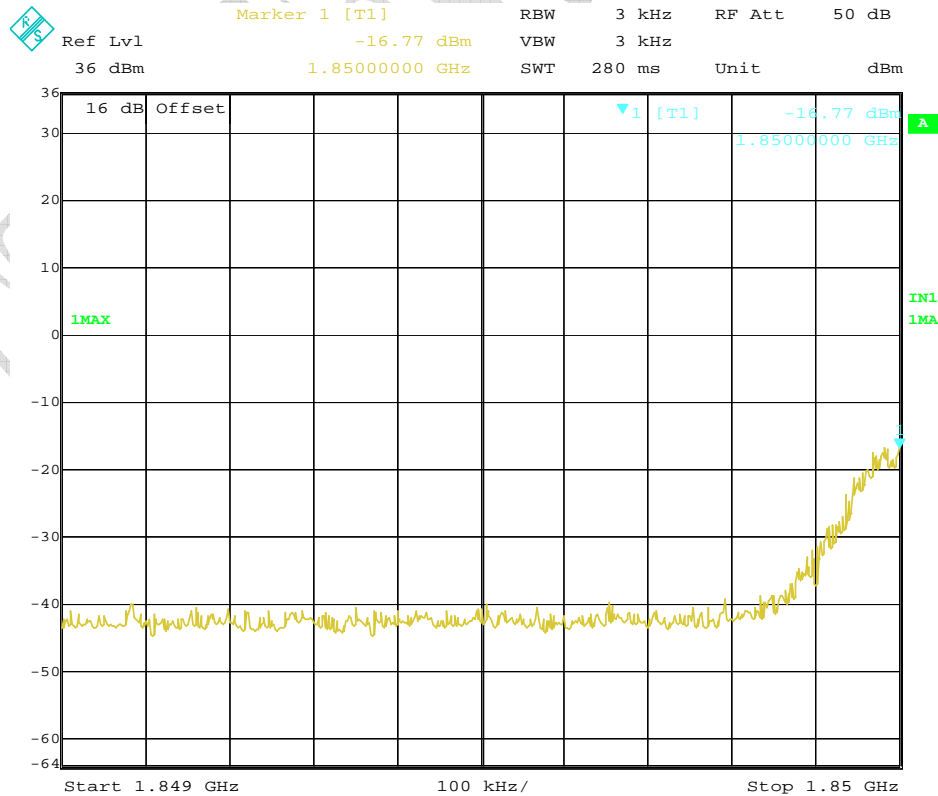
FCC Parts 2, 24
Equipment: Mega4

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Date: 17.MAY.2008 00:40:29

Right band edge of ch810 for GSM

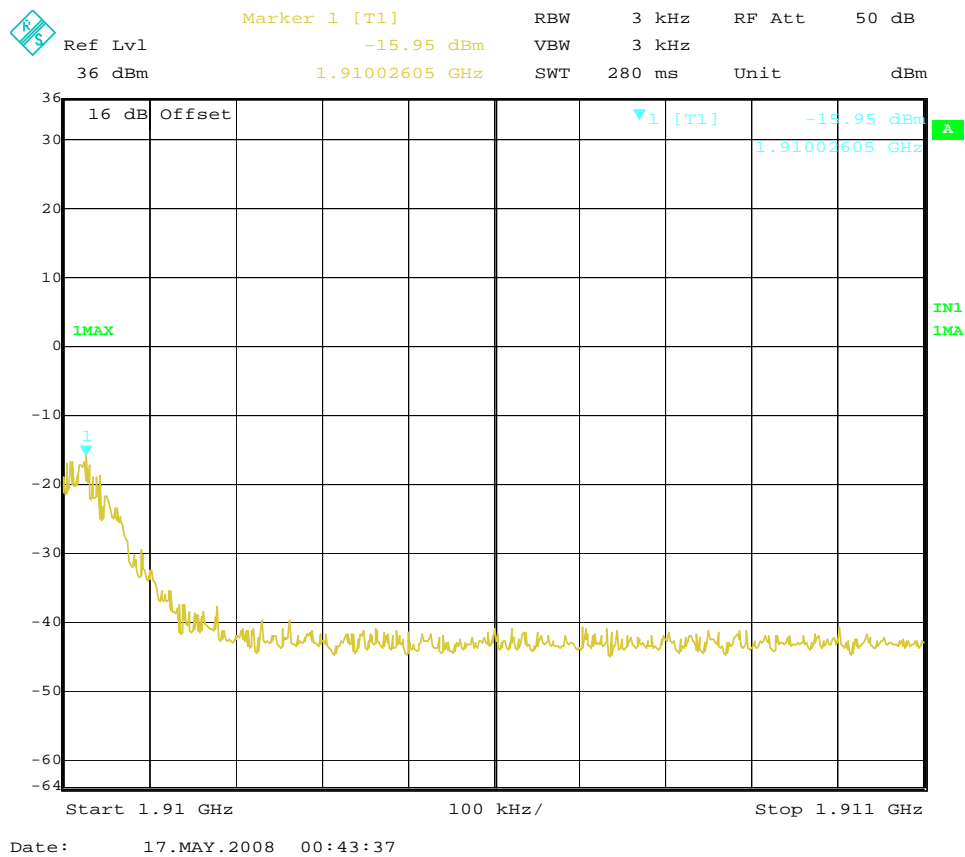


Date: 17.MAY.2008 00:45:19

Left band edge for ch512 for GPRS

FCC Parts 2, 24
Equipment: Mega4

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Right band edge of ch810 for GPRS

4.2 Radiated RF Power Output and ERP

Specifications:	2.1046,24.232					
Date of Tests	2008-05-16					
Test conditions:	Ambient Temperature: 15℃-35℃ Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 512, 661 and 810					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-04	Normal
7330	Ultra Broadband Antenna	R/S	HL562	100013	2008-07-24	Normal
7330	Double-Ridged Horn Antenna	R/S	HF906	100037	2009-01-14	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2010-11-17	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2008-06-13	Normal
111835	Wireless Communications Test Set	R&S	CMU200	1100000802	--	Normal

Limit Level Construction:

(a) Radiated RF Power Output

According to Part 24.232(b), i.e., Mobile/portable stations are limited to 2 watts EIRP peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications, so the limit level is 2 W or 33 dBm.

Limits for Radiated RF Power Output

Frequency range	Limit Level (EIRP)/Resolution Bandwidth
TX channel	33dBm/1MHz

Test Setup:

The EUT was set in an anechoic chamber, which is connected to the Wireless Communications Test Set located outside the chamber over the air. The test was done using an automated test system, where all test equipments were controlled by a computer.

Test Method

The measurement was performed accordance with section 2.2.17 of ANSI/TIA-603-B-2002: *Land Mobile FM or PM Communications Equipment Measurement and Performance Standards*.

1 The maximum power was searched by turning the azimuth of the turntable, shifting the polarization of the measuring antenna and changing the pose of the EUT.

2 The measured levels are EIRP values corrected in the automated test system with the correction factors given by a substitution calibration made before the measurement. The calibration is made separately for vertical and horizontal polarization and the system uses different correction factors depending on the measuring antenna polarization.

3 The corrected maximum levels were reported for EIRP values.

Note:

--

EIRP Value for GSM 1900 band mode:

ARFCN	Frequency [MHz]	EIRP [dBm]
512	1850.261	25.02
661	1880.080	26.54
810	1909.900	25.64

EIRP Value for GPRS 1900 band mode:

ARFCN	Frequency [MHz]	EIRP [dBm]
512	1850.261	24.34
661	1880.080	25.30
810	1909.900	23.58

4.3 Occupied bandwidth

Specifications:	2.1049,24.238(b)					
Date of Test	2008-05-16					
Test conditions:	Ambient Temperature: 15℃-35℃ Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 512, 661 and 810					
Test Results:	--					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-03	Normal
7330	Ultra Broadband Antenna	R/S	HL562	100013	2008-07-24	Normal
7330	Double-Ridged Horn Antenna	R/S	HF906	100037	2009-01-14	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2010-11-17	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2008-06-13	Normal
111835	Wireless Communications Test Set	R&S	CMU200	1100000802	--	Normal

Test Setup

The Wireless Communications Test Set was used to set the TX channel, power level and modulation.

Test Method

The 99% occupied bandwidth was calculated from the spectrum analyzer. Markers in the spectrum analyzer were then placed between the calculated frequencies to show the calculated 99% power band.

Note: --

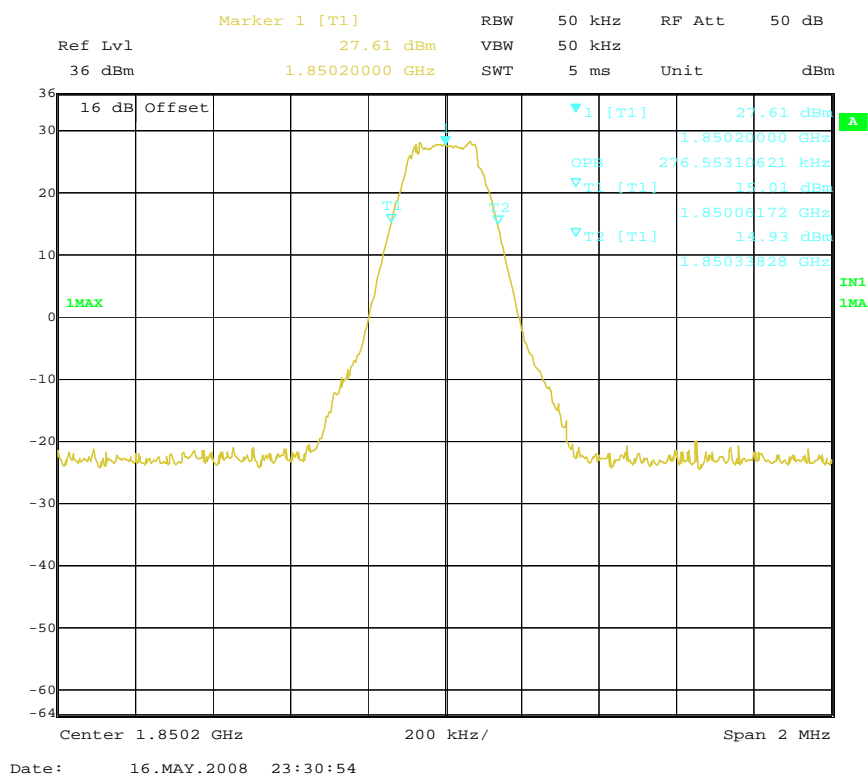
Results data of GSM mode:

EUT channel	99% occupied bandwidth [kHz]
512	277
661	277
810	277

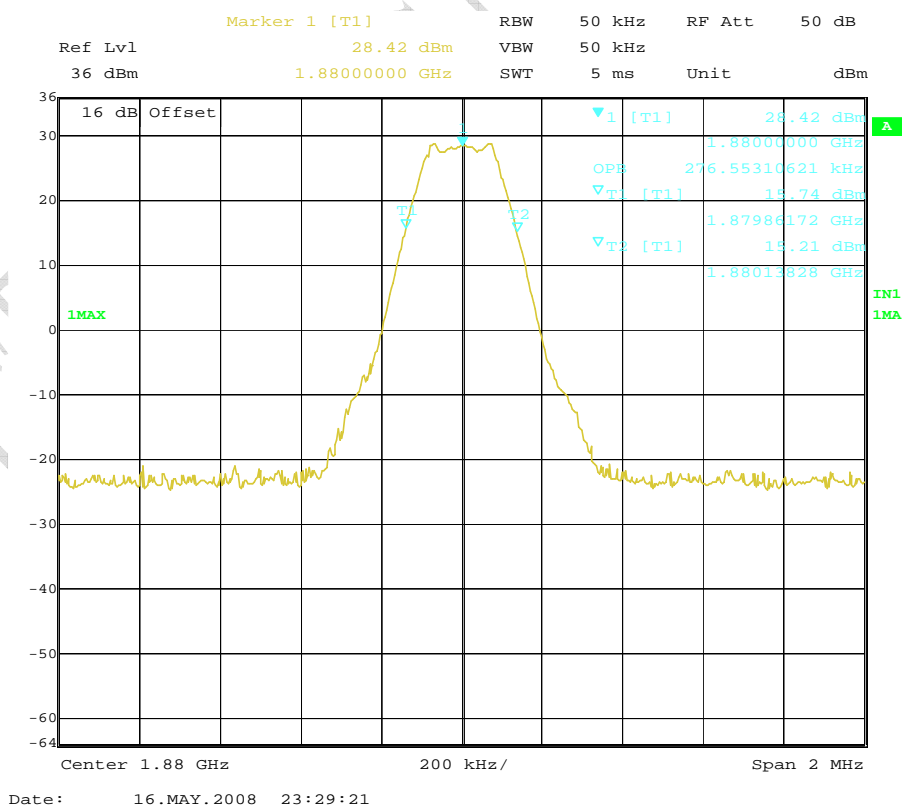
Graphical results for GSM mode:

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Channel 512

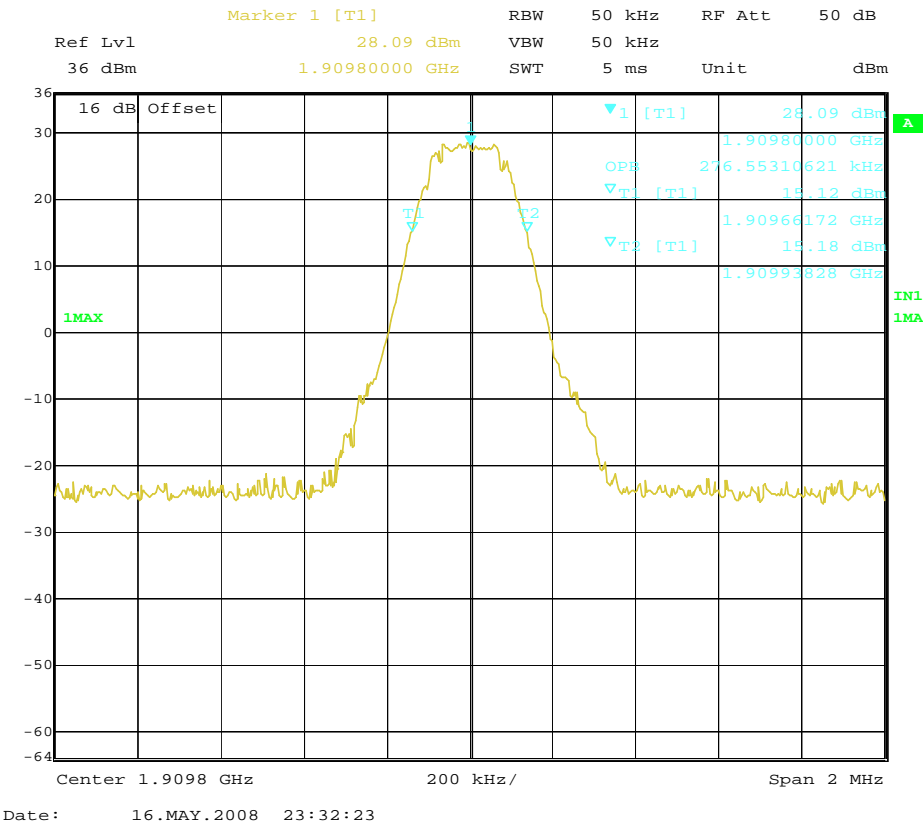


Channel 661



FCC Parts 2, 24
Equipment: Mega4

REPORT NO.: I08GE5152-FCC-EMC



Channel 810

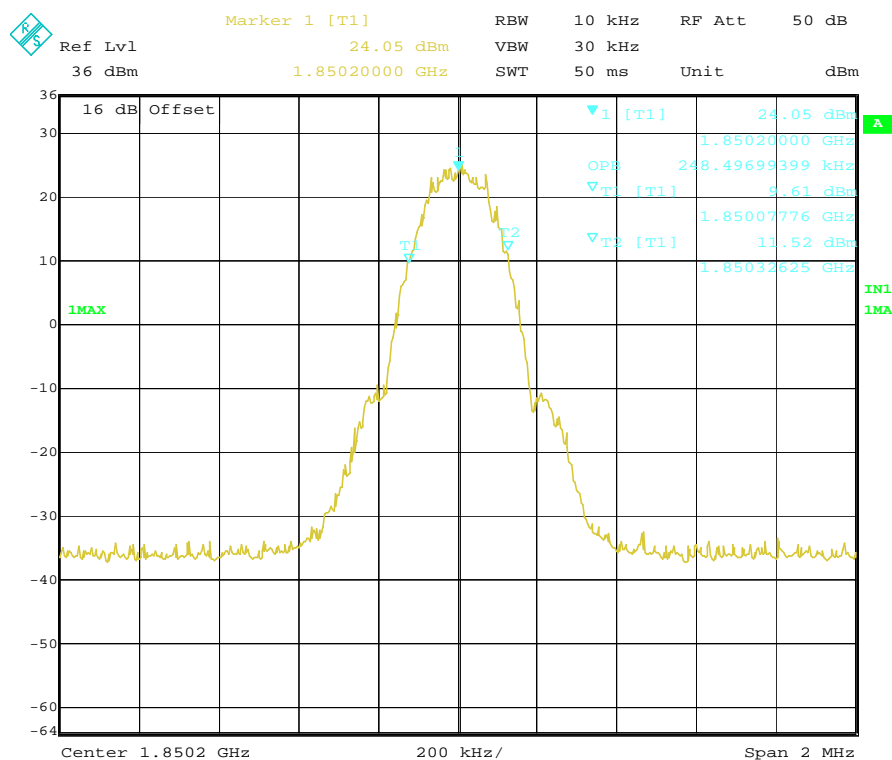
FCC Parts 2, 24
Equipment: Mega4

REPORT NO.: I08GE5152-FCC-EMC

Results data of GPRS mode:

EUT channel	99% occupied bandwidth [kHz]
512	248
661	248
810	248

Graphical results for GPRS mode:

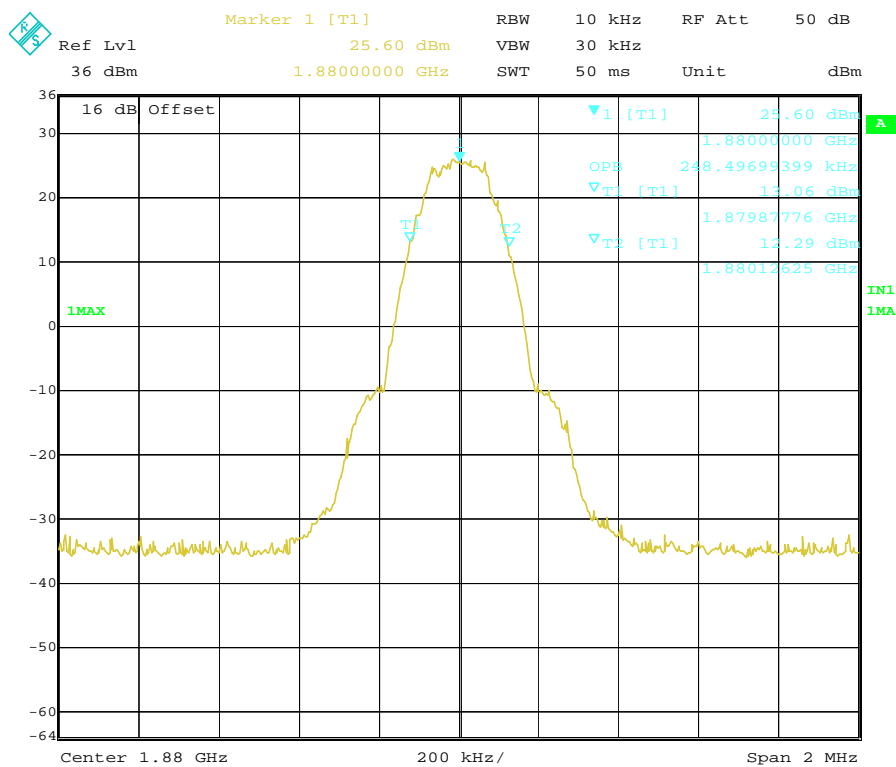


Date: 17.MAY.2008 01:02:38

Channel 512

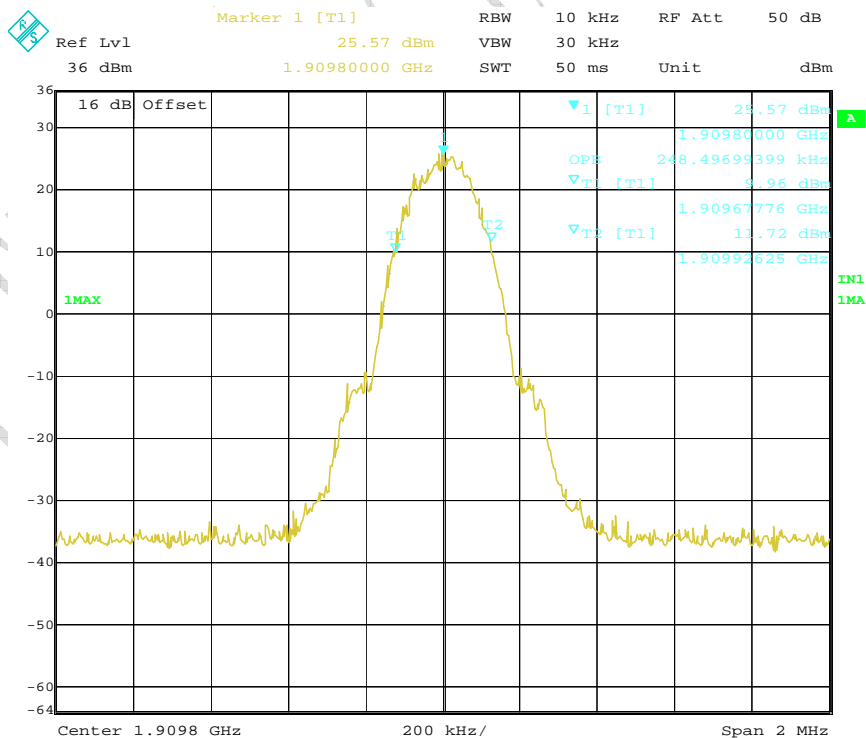
FCC Parts 2, 24
Equipment: Mega4

REPORT NO.: I08GE5152-FCC-EMC



Date: 17.MAY.2008 01:01:27

Channel 661



Date: 17.MAY.2008 00:53:36

Channel 810

4.4 Frequency Stability over Temperature Variation

Specifications:	2.1055,24.235					
Date of Test	2008-05-18					
Test conditions:	Ambient Temperature: -30℃-50℃ Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 661					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
023	Wireless Communication s Test Set	Agilent	8960(E5515C)	GB41450323	2008-06-13	Normal
561	Temperature Chamber	Terchy Environmental Technology LTD.	MHU-800SR	84121202	2008-05-06	Normal
111835	Wireless Communication s Test Set	R&S	CMU200	1100000802	--	Normal
Limit						
Frequency deviation [ppm]		±2.5				

Test Setup

The EUT was placed in a temperature chamber, demonstrated as figure T. The wireless communications test set (test simulator) was used to set the TX channel and power levels, modulate the TX signal with different bit patterns and measure the frequency of TX.

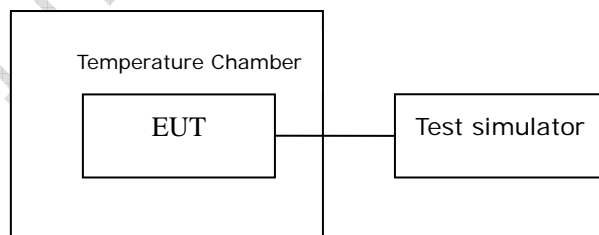


Figure T: setup for measurement of frequency stability over temperature variation

Test Method

1. The EUT was turned off and placed in the temperature chamber.
2. The temperature of the chamber was set to -30°C and allowed to stabilize.
3. The EUT temperature was allowed to stabilize for 45 minutes.
4. The EUT was turned on and set to transmit with 8960.
5. The maximum transmit frequency deviation during one minute period was measured by Wireless Communications Test Set.
6. The steps 3-5 were repeated for -20°C, -10°C, 0°C, 10°C, 20°C, 30°C, 40°C and 50°C.

Test results data for GSM mode:

Temperature[°C]	Deviation[Hz]	Deviation[ppm]	Remarks
-30	-20	-0.011	Pass
-20	-18	-0.010	Pass
-10	-16	-0.009	Pass
0	-15	-0.008	Pass
10	-19	-0.010	Pass
20	-18	-0.010	Pass
30	-20	-0.011	Pass
40	-22	-0.012	Pass
50	-19	-0.010	Pass

Test results data for GPRS mode:

Temperature[°C]	Deviation[Hz]	Deviation[ppm]	Remarks
-30	-21	-0.011	Pass
-20	-18	-0.010	Pass
-10	-23	-0.012	Pass
0	-18	-0.010	Pass
10	-19	-0.010	Pass
20	-19	-0.010	Pass
30	-26	-0.014	Pass
40	-26	-0.014	Pass
50	-24	-0.013	Pass

4.5 Frequency Stability over Voltage Variation

Specifications:	2.1055,24.235					
Date of Test	2008-05-16					
Test conditions:	Ambient Temperature: 15℃-35℃ Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 661					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
023	Wireless Communication s Test Set	Agilent	8960(E5515C)	GB41450323	2008-06-13	Normal
111835	Wireless Communication s Test Set	R&S	CMU200	1100000802	--	Normal
7982	DC Power Source	4NIC	DH1715A-3	004224	--	Normal
Limit						
Frequency deviation [ppm]		±2.5				

Test Setup

The EUT was placed in a shielding chamber and powered by the dummy battery which is connected to a DC power source, demonstrated as figure V. The wireless communications test set was used to set the TX channel and power level, modulate the TX signal with different bit patterns and measure the frequency of TX.

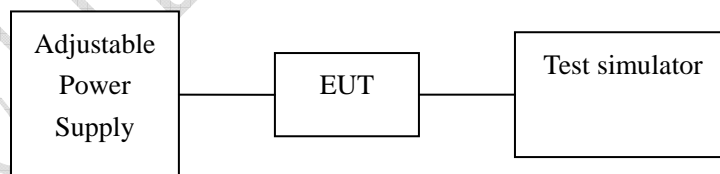


Figure V: test setup for measurement of frequency stability over voltage variation

Test Results data for GSM mode:

Level	Voltage[V]	Deviation[Hz]	Deviation[ppm]	Remarks
Nominal	3.7	28	0.015	Pass
Cut-off point	3.3	31	0.016	Pass

Test Results data for GPRS mode:

Level	Voltage[V]	Deviation[Hz]	Deviation[ppm]	Remarks
Nominal	3.7	-30	-0.016	Pass
Cut-off point	3.3	-41	-0.022	Pass

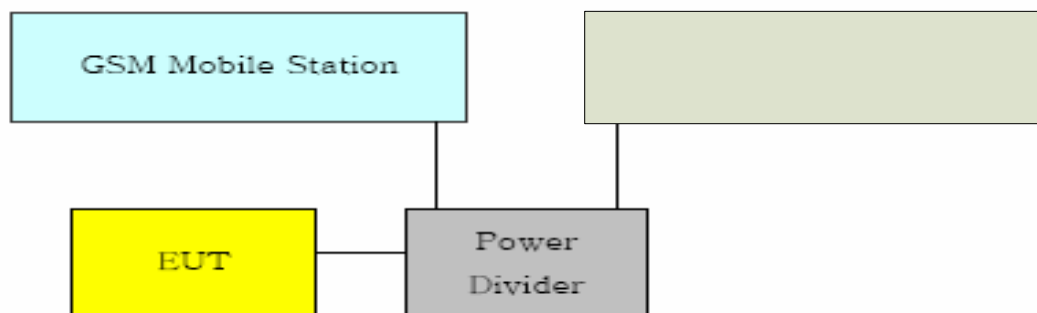
4.6 Conducted RF Power Output

Specifications:	2.1046,24.232(c)					
Date of Tests	2008-05-16					
Test conditions:	Ambient Temperature: 15℃-35℃ Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 512, 661 and 810					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-04	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2008-06-13	Normal
---	Power splitter	Jie sai	---	1000132	2009-01-04	Normal
111835	Wireless Communications Test Set	R&S	CMU200	1100000802	--	Normal

Limits for Radiated RF Power Output	
Frequency range	Limit Level (EIRP)/Resolution Bandwidth
TX channel	33dBm/1MHz

Test Setup:

During the process of testing, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by Rhode & Schwarz EMI test receiver (ESI26).



Test Method

- 1) The EUT was coupled to the EMI test receiver analyzer mode and the base

station simulator through a power divider. The radio frequency load attached to the EUT antenna terminal was 50 Ohm. The loss of the cables the test system is calibrated to correct the readings.

2) The spectrum analyzer was set to Maxpeak Detector function and Maximum hold mode.

3) The resolution bandwidth of the spectrum analyzer was comparable to the emission bandwidth.

Note: --

Test Results for GSM mode:

EIRP Value for GSM 1900 band:

ARFCN	Peak output power [dBm]
512	28.18
661	28.69
810	28.61

Test Results for GPRS mode:

EIRP Value for GPRS 1900 band:

ARFCN	Peak output power [dBm]
512	28.08
661	28.50
810	28.34

4.7 Conducted Spurious Emission

Specifications:	2.1051,24.238					
Date of Tests	2008-05-16					
Test conditions:	Ambient Temperature: 15℃-35℃ Relative Humidity: 30%-60% Air pressure: 86-106kPa					
Operation Mode	TX on, channel 661					
Test Results:	Pass					
Test equipment Used:						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2009-01-04	Normal
023	Wireless Communications Test Set	Agilent	8960(E5515C)	GB41450323	2008-06-13	Normal
---	Power splitter	Jie sai	---	1000132	2009-01-04	Normal
111835	Wireless Communications Test Set	R&S	CMU200	1100000802	--	Normal

Limit Level Construction:

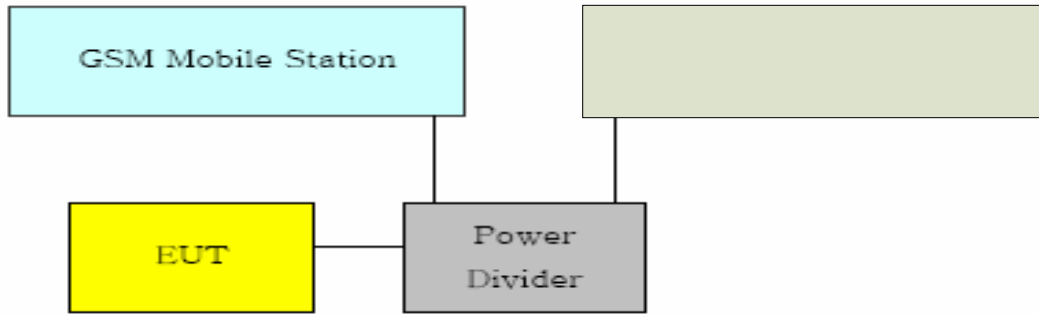
According to Part 24.238 (a), i.e., Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB, so the limit level is:
 $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13\text{dBm}$

Limits for Radiated spurious emissions(UE)

Frequency range	Limit Level /Resolution Bandwidth
30 MHz to 20000 MHz	-13dBm/1MHz

Test Setup:

During the process of testing, the EUT was controlled via Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by Rhode & Schwarz EMI test receiver (ESI26)



Test Method

The measurement was performed accordance with section 2.2.13 of ANSI/TIA-603-B-2002: *Land Mobile FM or PM Communications Equipment Measurement and Performance Standards*.

The following steps outline the procedure used to measure the conducted emissions from the EUT.

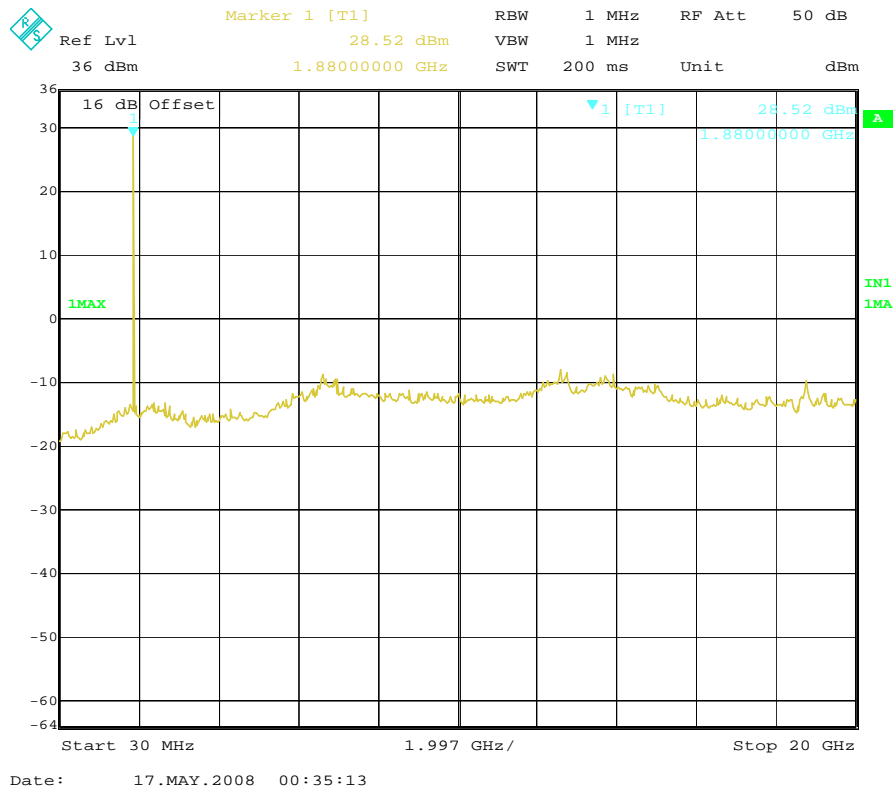
1. Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency. For the equipment under test, this equates to a frequency range of 30 MHz to 19.1 GHz, data taken from 30 MHz to 20 GHz.
2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.

Note: --

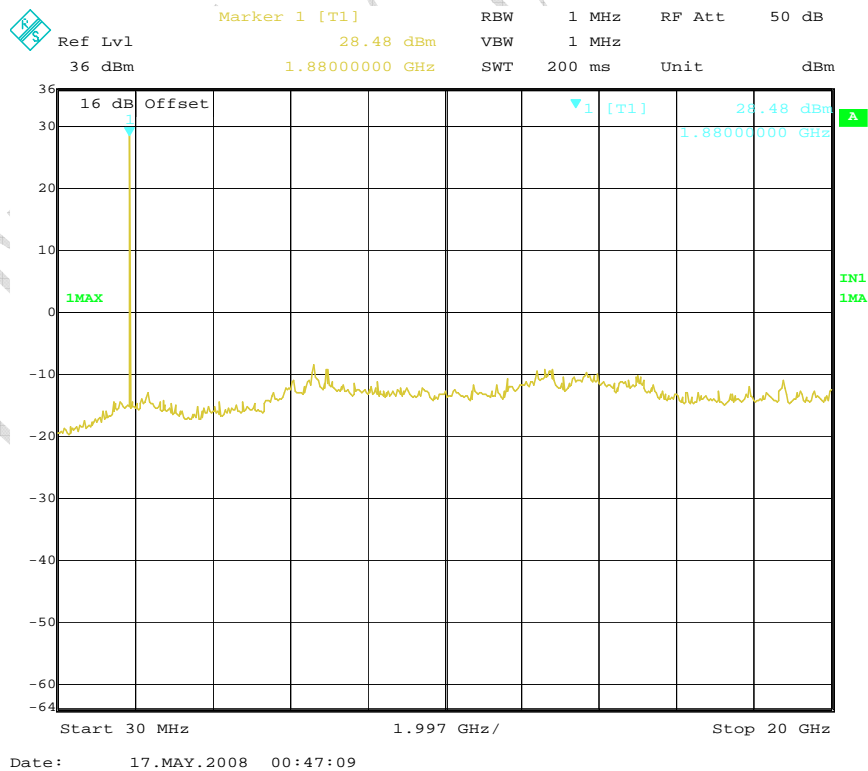
FCC Parts 2, 24
Equipment: Mega4

REPORT NO.: I08GE5152-FCC-EMC

Test Results for GSM mode:



Channel 661 for GSM



Channel 661 for GPRS

Annex A External Photos



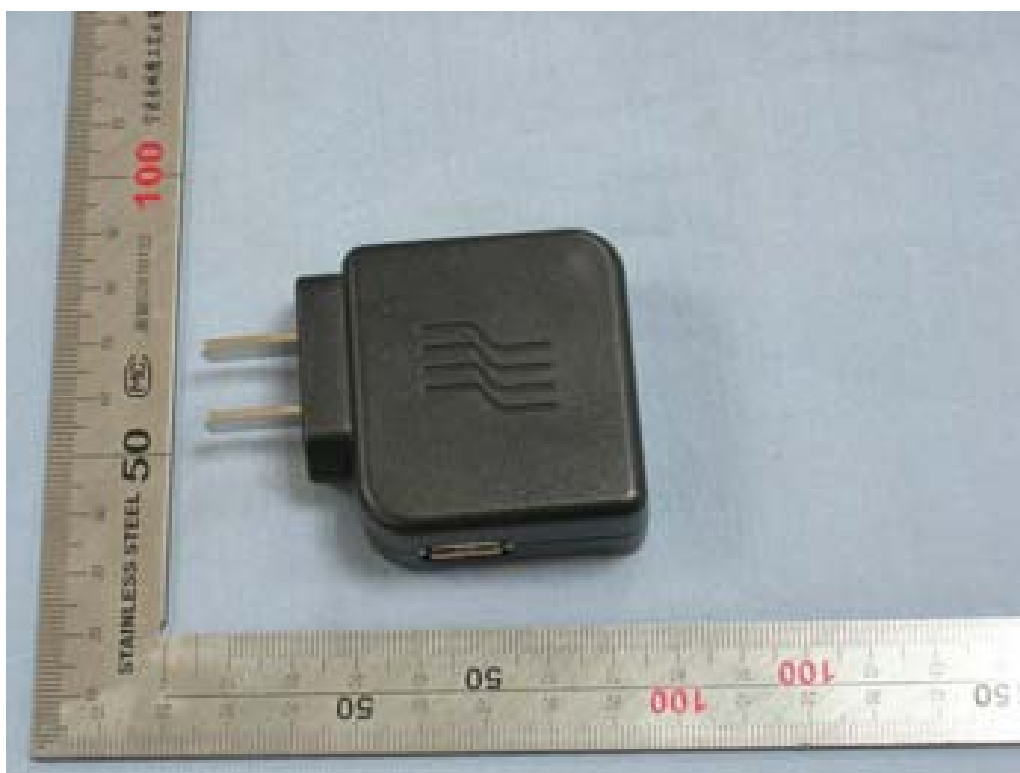
Face view



Back view

FCC Parts 2, 24
Equipment: Mega4

REPORT NO.: I08GE5152-FCC-EMC



Adaptor

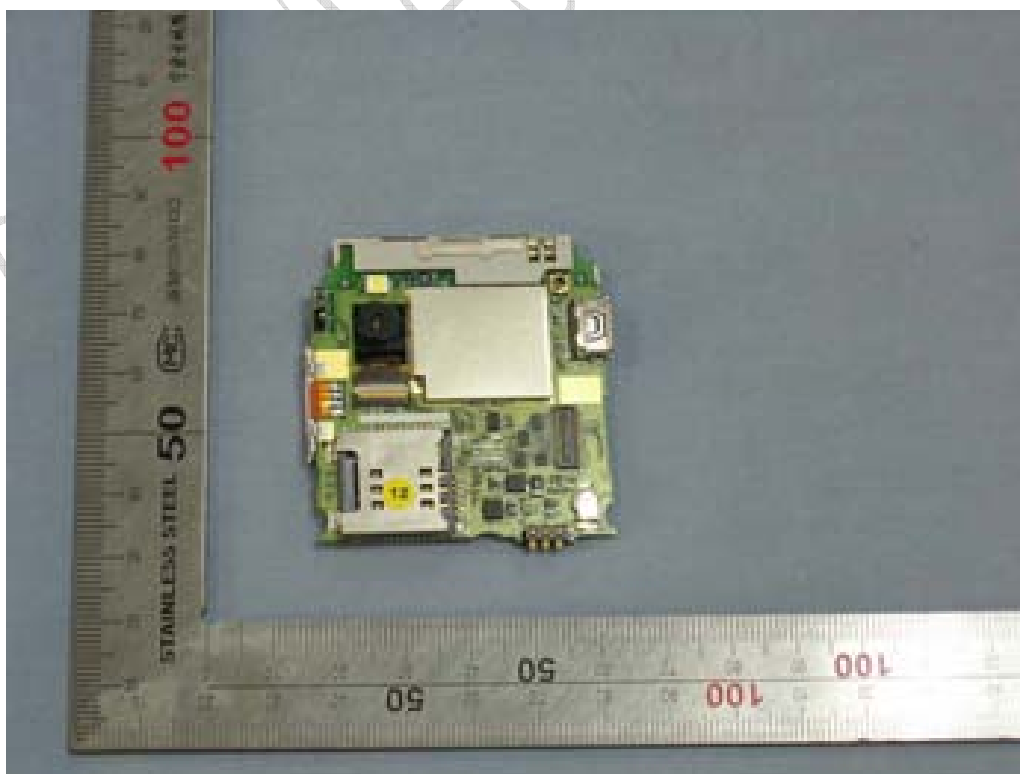


Headset

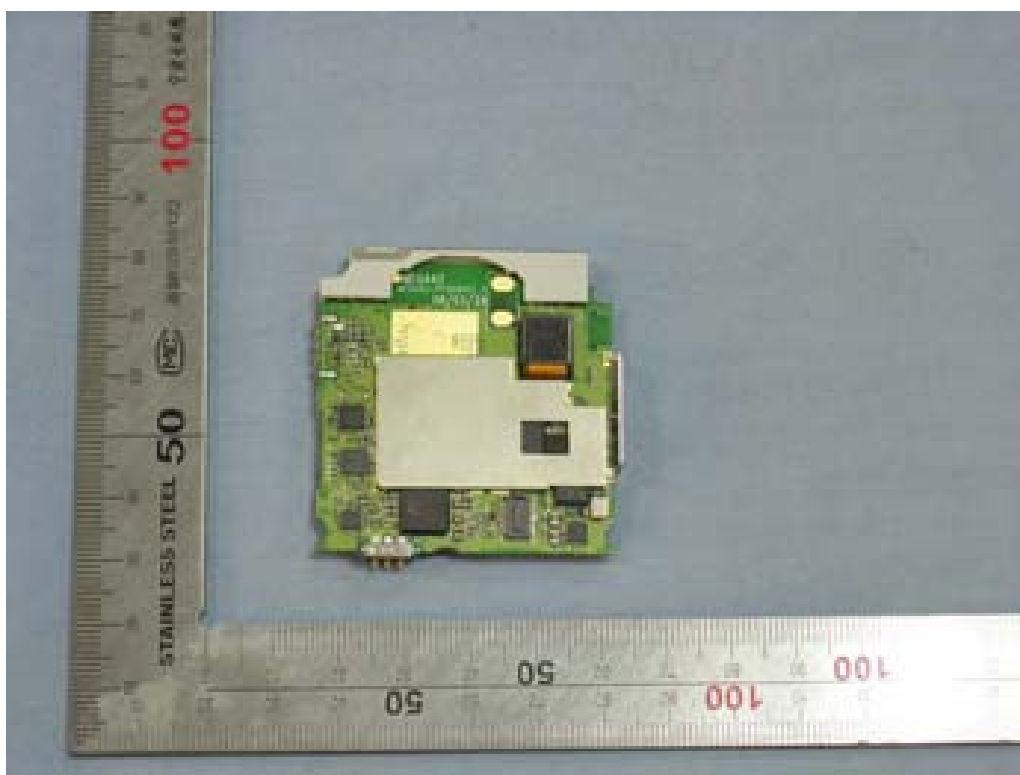
Annex B Internal Photos



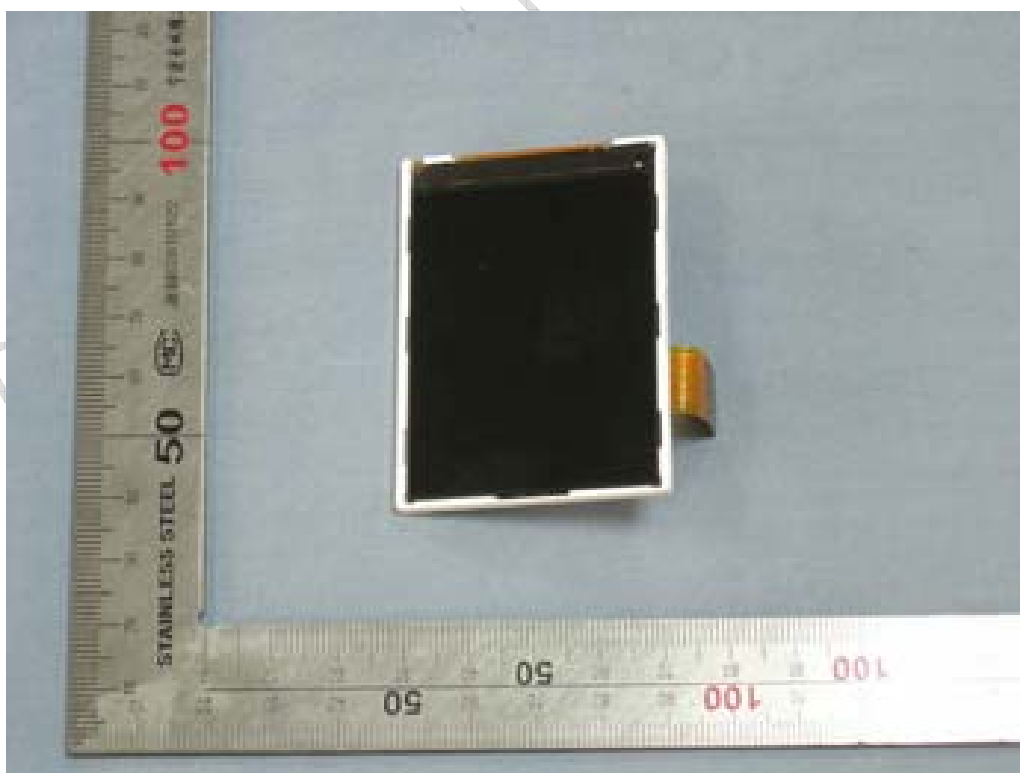
Back view without battery



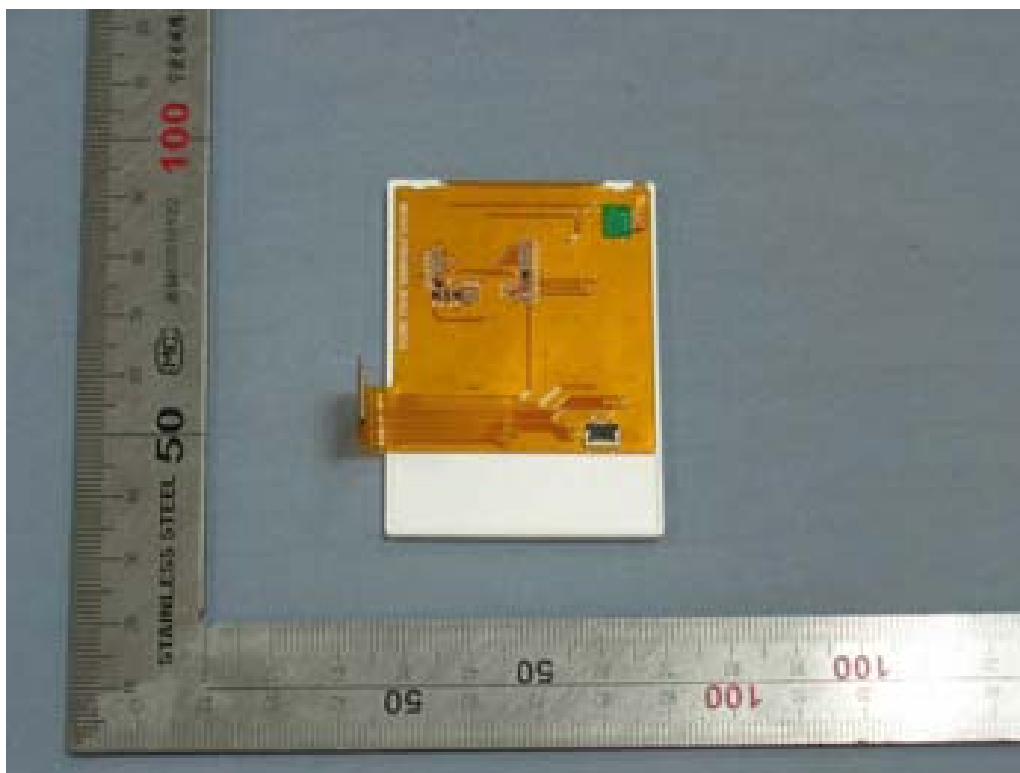
Main board 1(face)



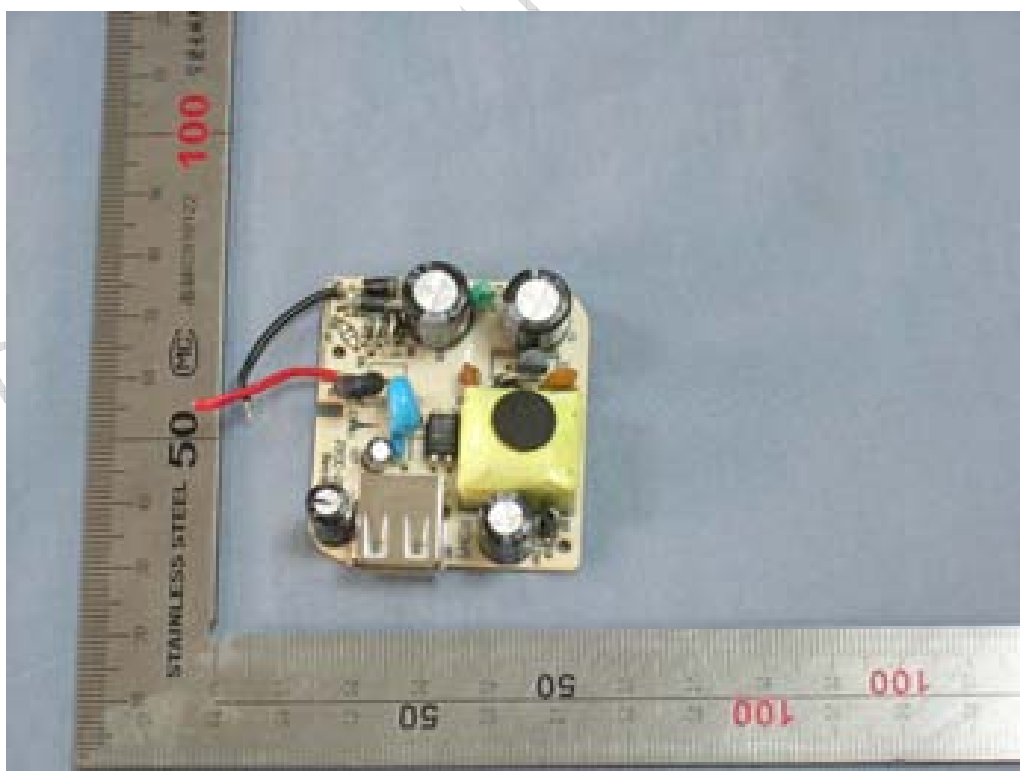
Main board 1 (back)



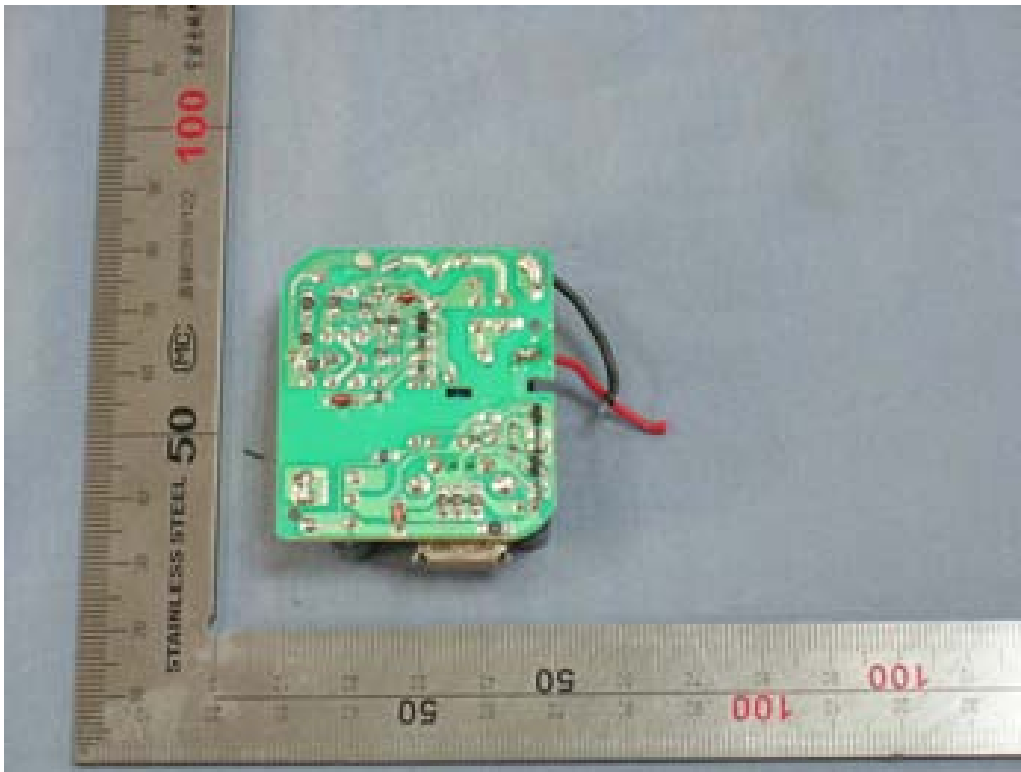
LCD (face)



LCD (back)



Adaptor face



Adaptor back

ANNEX C Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

———— The End of this Report ————

CTL Test Report