TEST REPORT

REPORT NUMBER: B07GE6790-FCC-BT

ON

Type of Equipment: Mobile Phone
Type of Designation: MEGA2
Manufacturer: Ezze Mobile Tech

ACCORDING TO
FCC Part 15, FREQUENCY Hopping Spread Spectrum Transceiver

PART 15 subpart C 15.247

China Telecommunication Technology Labs.

Month date, year
2007-11-30

Signature

He Guili
Director

FCC ID:	RV2MEGA2
Report Date:	2007-11-30

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 Parts 15, subpart C 15.247. The sample tested was found to comply with the requirements defined in the applied rules.

CONTENTS

1 General Information

1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC Parts 15, subpart C 15.247.

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 B.

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1.2 Testers

Name:	An Shaogeng
Position:	Engineer
Department:	Department of EMC test
Duration of the test:	From 2007-11-15 to 2007-11-20
Signature:	安少庚

Editor of this test report:

Name:	An Shaogeng
Position:	Engineer
Department:	Department of EMC test
Date:	2007-11-30
Signature:	安少庚

Technical responsibility for area of testing:

Name:	Zou Dongyi
Position:	Manager
Department:	Department of EMC test
Date:	2007-11-30
Signature:	邹东毅

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 for Laboratory (CNAL)
Registration number:	CNAL Registration No.L0570
Standard:	ISO/IEC 17025

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, Korea
Country:	Korea
Telephone:	+82-2-519-7807
Fax:	+82-2-519-7882
Contact:	Byoung Dae Ahn
Telephone:	+82-2-519-7805
Email:	eosahn@ezzemobile.com

1.4.2 Manufacturer (if different from applicant in section 1.4.1)

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

2 Test Item

2.1 General Information

Manufacturer: Ezze Mobile Tech

Name: Mobile Phone

Model Number: MEGA2

Serial Number: None

Production Status: None

Receipt date of test item: Production

2.2 Outline of EUT

EUT is a GSM850/ PCS1900 Dual-band Terminal Equipment with Bluetooth function.

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	Mobile Station	Ezze Mobile Tech	MEGA2	--	None
B	Adapter	Yu Feng	USB type charger	--	None
C	Battery	ZhiYin	LiO+	--	None
D	Headset	Rich star	Wire type		

Cables:

Item	Cable Type	Manufacturer	Length	Shield	Quantity	Remarks
1	DC cable on Adapter	Unknown	1.80m	No	1	None

2.5 Other Information

None

3 Summary of Test Results

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

	Name of Test	Result
1、	Peak power	Pass
2、	Band edges measurement	Pass
3、	Frequency separation	Pass
4、	Number of hopping frequency	Pass
5、	Time of occupancy	Pass
6、	Spurious emission	Pass
7、	Powerline Conducted Emissions	Pass
Note: none		

4 Test Results

4.1 Peak power

Specifications:	15.247 (b)(3)(i),(ii)and(iii)
Date of Tests	2007.11.26
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Operation Mode	Fix channel transmit
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	2008-01-03	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2010-11-16	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2008-02-22	Normal

Test Setup:

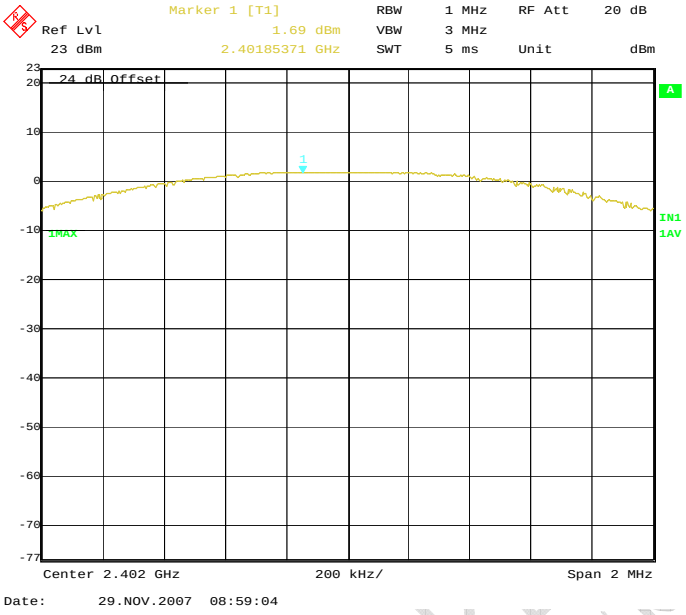
The EUT was placed in an anechoic chamber. The CMU 200 was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupling.

Test Results:

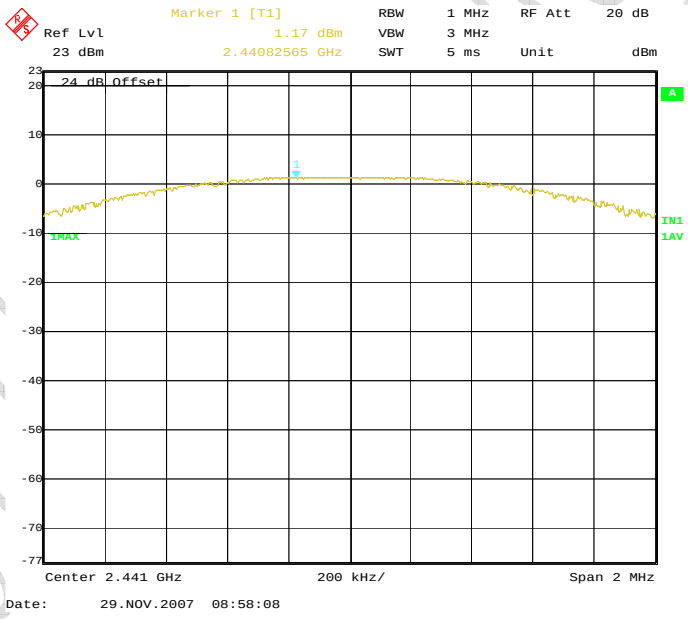
channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Result
0	2402	1.69	30	Pass
39	2441	1.17	30	Pass
78	2480	2.50	30	pass

Test Data:

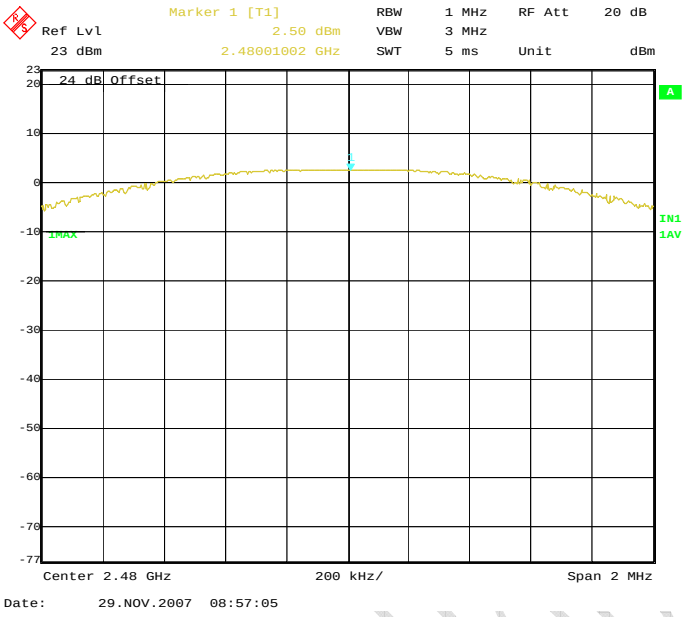
Channel 0:



Channel 39



Channel 78



4.2 Band edges measurement

Specifications:	15.247 (d)
Date of Tests	2007.11.26
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Operation Mode	Fix channel transmit
Test Results:	Pass

Test equipment Used:

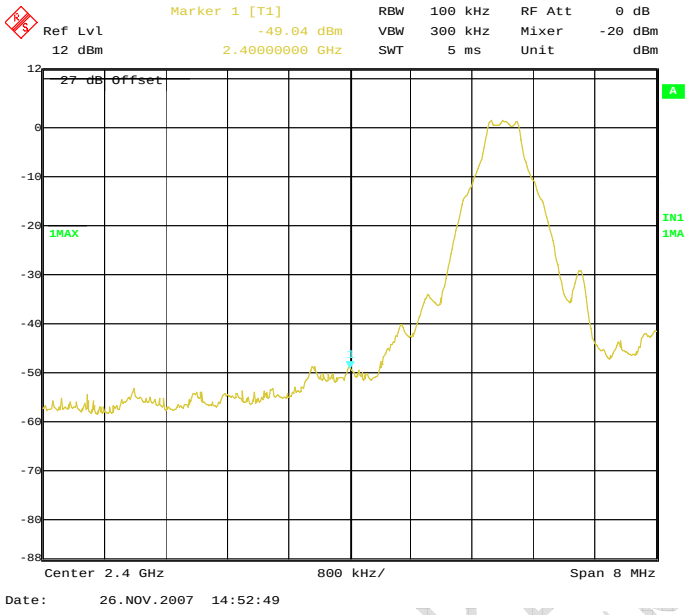
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
7805	EMI Test Receiver	R/S	ESI26	100211	2008-01-03	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2010-11-16	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2008-02-22	Normal

Test Setup:

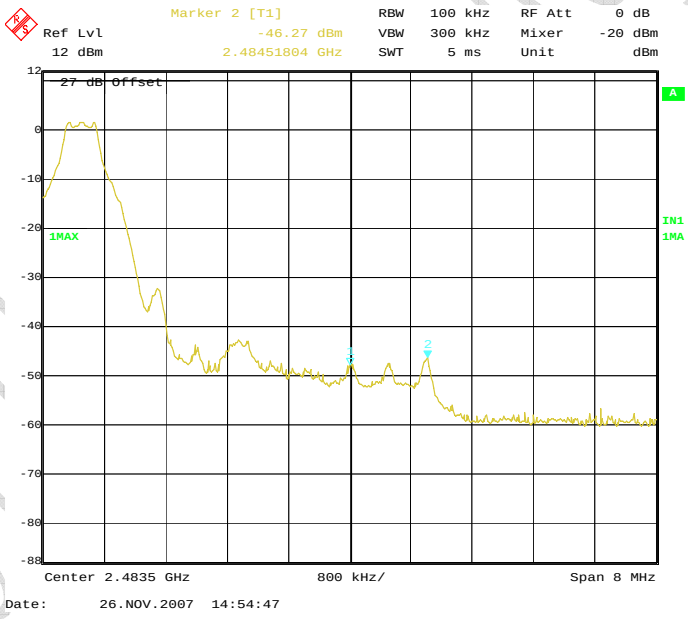
The EUT was placed in an anechoic chamber. The CMU 200 was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupling.

Test data:

Channel 0



Channel 78



4.2.1 Band edges measurement (Radiated)

Specifications:	15.247 (c); 15.205(a) and 15.209(a)
Date of Tests	2007.11.26
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Operation Mode	Fix channel transmit
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	2008-01-03	Normal
7330	Horn Antenna	R/S	HF906	100037	2008-01-09	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2010-11-16	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2008-02-22	Normal

Test Setup:

The EUT was placed in an anechoic chamber. The CMU 200 was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a Horn antenna.

Test method:

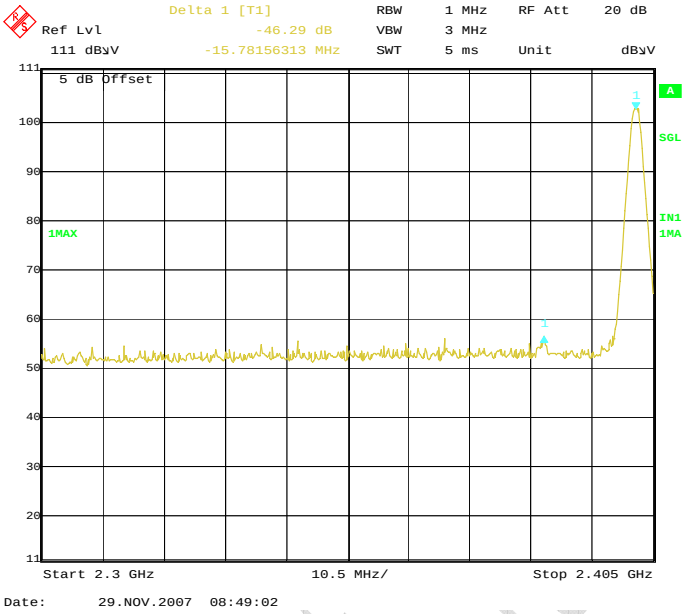
Use peak and average detector to measure band edges.
Test should be performing under Vertical and Horizontal modes.

Test data:

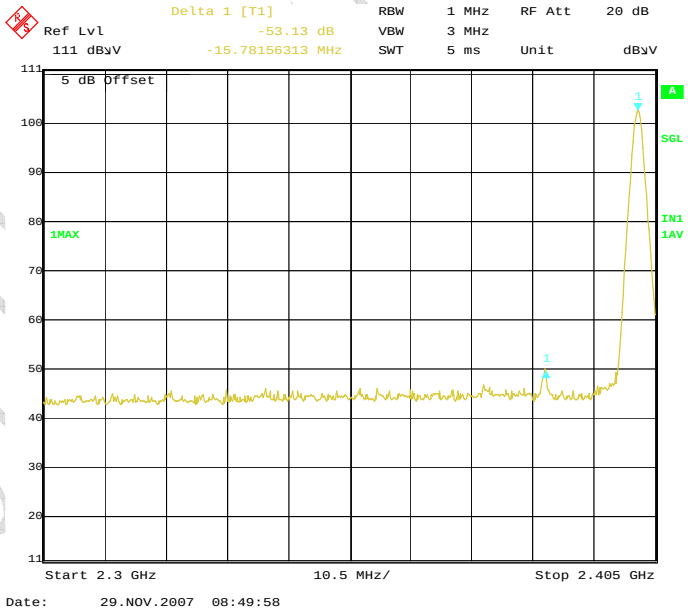
Channel 0

Vertical

Peak mode:



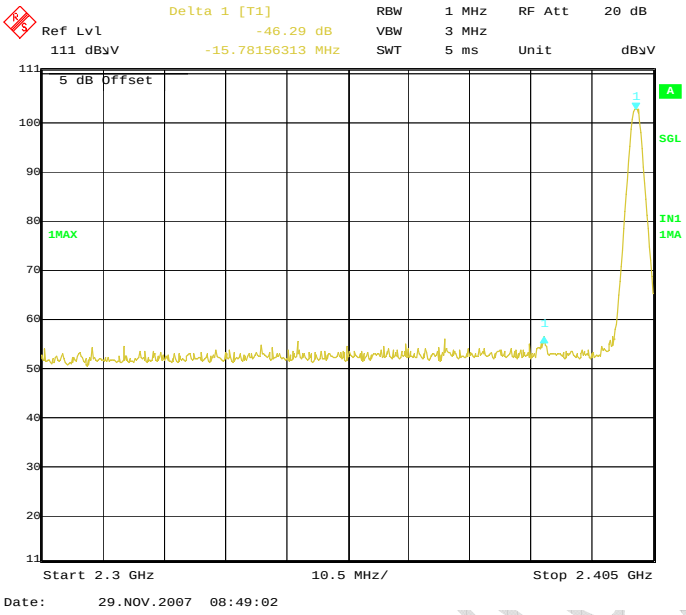
Average mode:



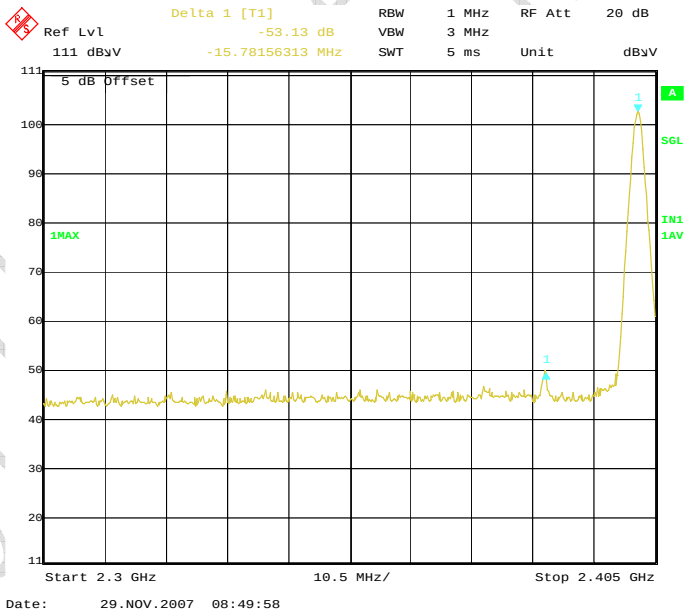
Channel 0

Horizontal

Peak mode:



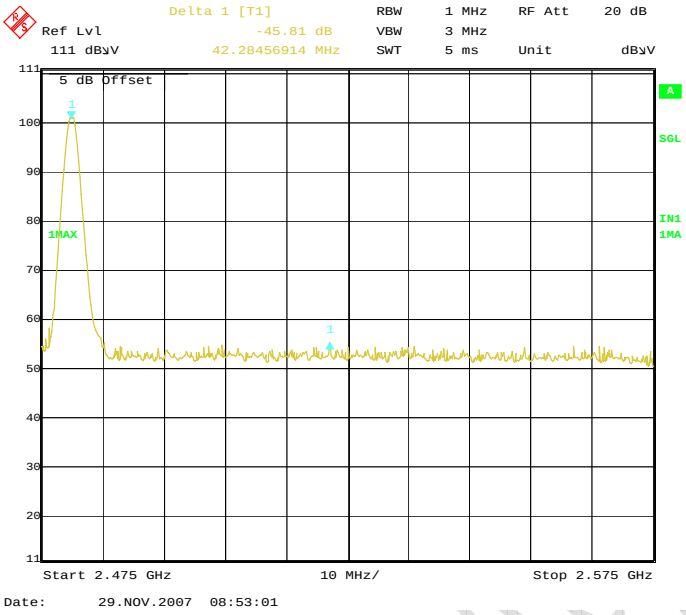
Average mode:



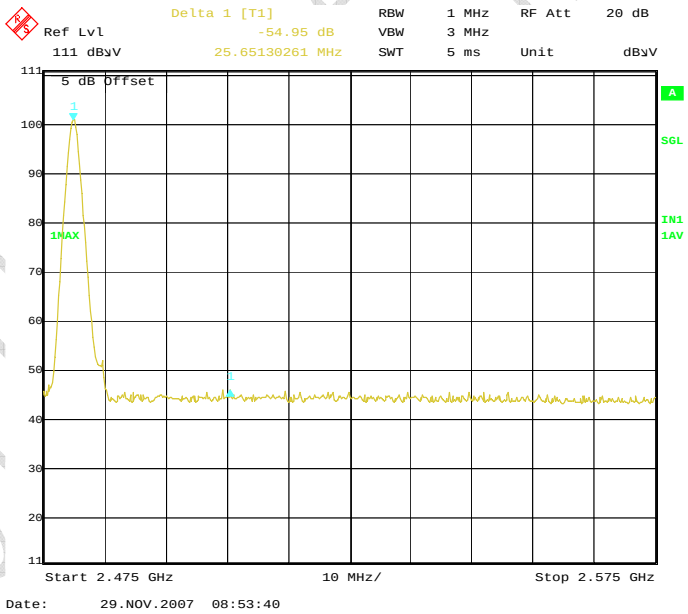
Channel 78

Vertical

Peak mode:



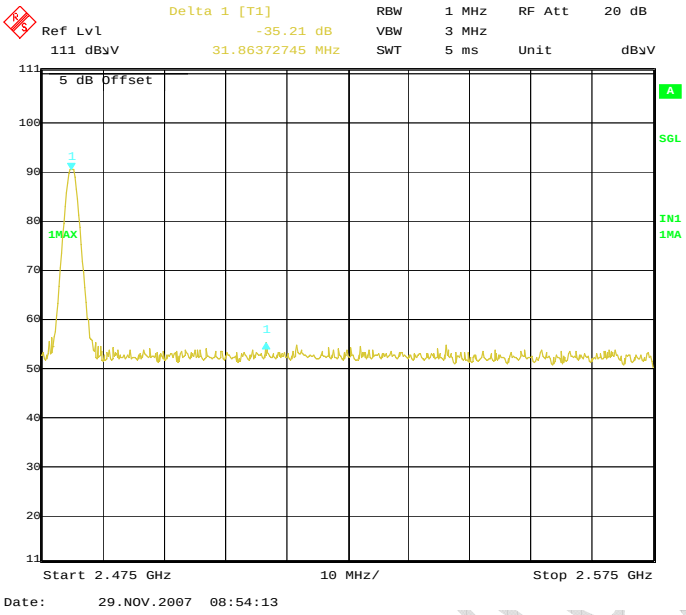
Average mode:



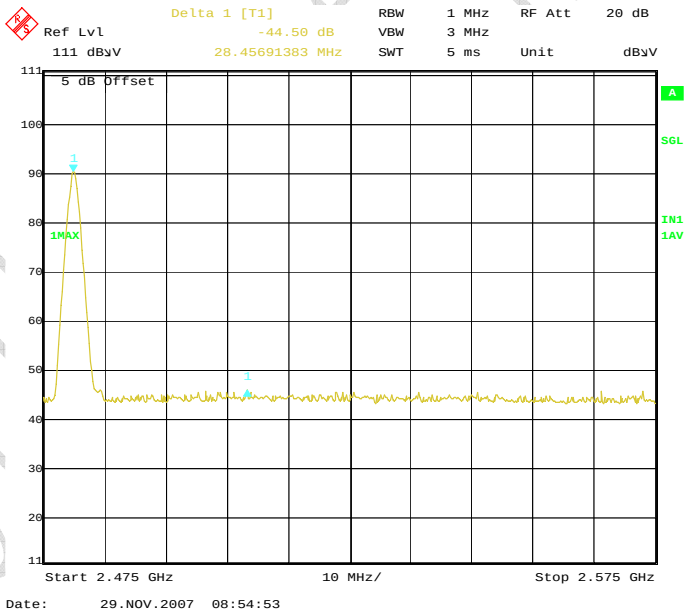
Channel 78

Horizontal

Peak mode:



Average mode:



4.3 Frequency separation

Specifications:	15.247(a)(1)
Date of Test	2007.11.26z
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Operation Mode	Fix channel transmit
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	2008-01-03	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3 m	--	2010-11-16	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2008-02-22	Normal

Test Setup

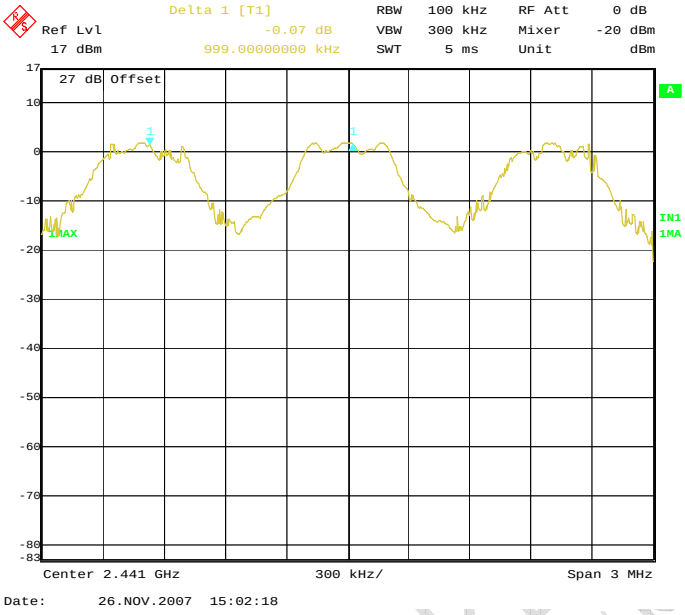
The EUT was placed in an anechoic chamber. The CMU 200 was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupling.

Test Result:

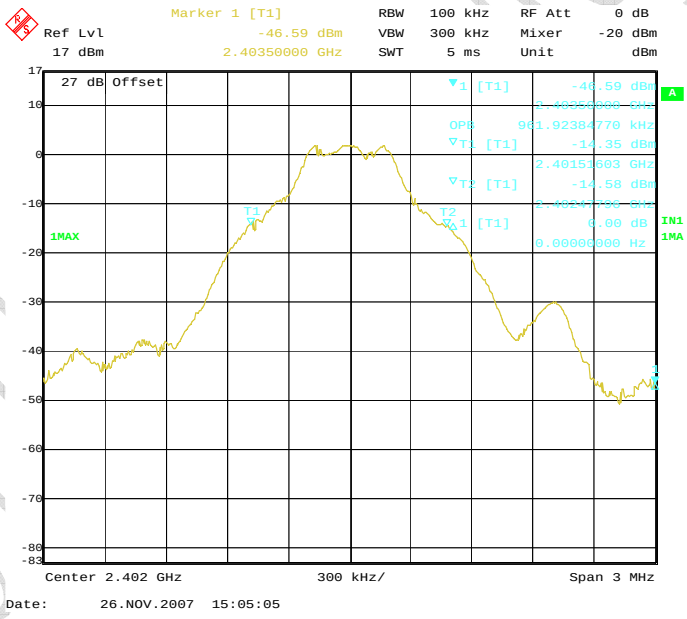
Channel separation (MHz)	20dB Bandwidth (kHz)		Limit (kMz)	Result
0.999	Ch 0	961.9	>25	Pass
0.999	Ch 39	949.8	>25	Pass
0.999	Ch 78	919.8	>25	Pass

Test data:

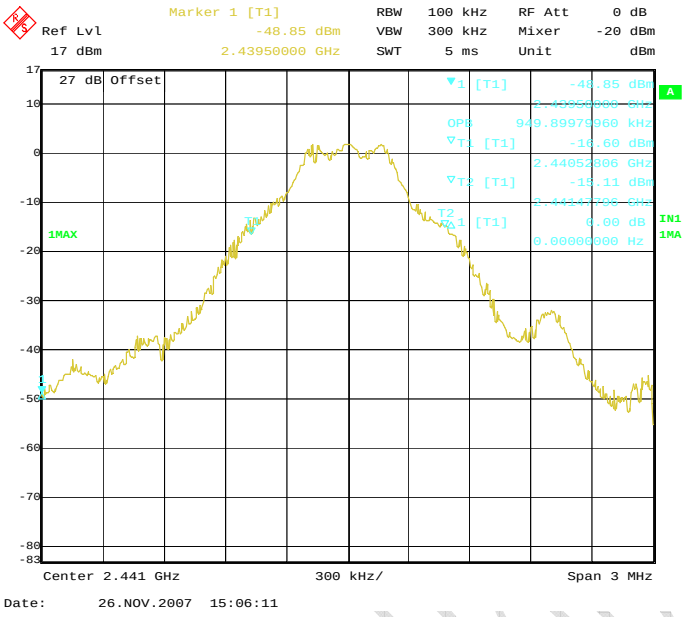
Channel Separation



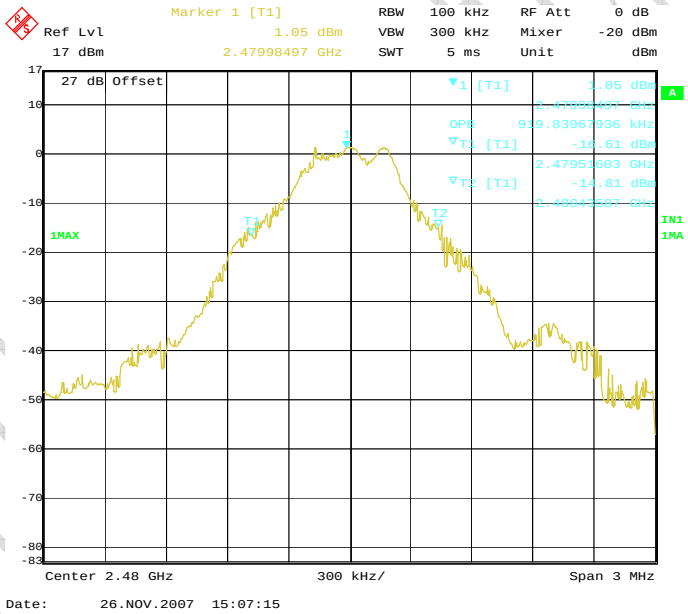
20dB Bandwidth (Ch 0)



20dB Bandwidth (Ch 39)



20dB Bandwidth (Ch 78)



4.4 Number of hopping frequency

Specifications:	15.247(a)(1)(ii)
Date of Test	2007.11.26
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Operation Mode	hopping
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	2008-01-03	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2010-11-16	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2008-02-22	Normal

Test Setup

The EUT was placed in an anechoic chamber. The CMU 200 was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupling.

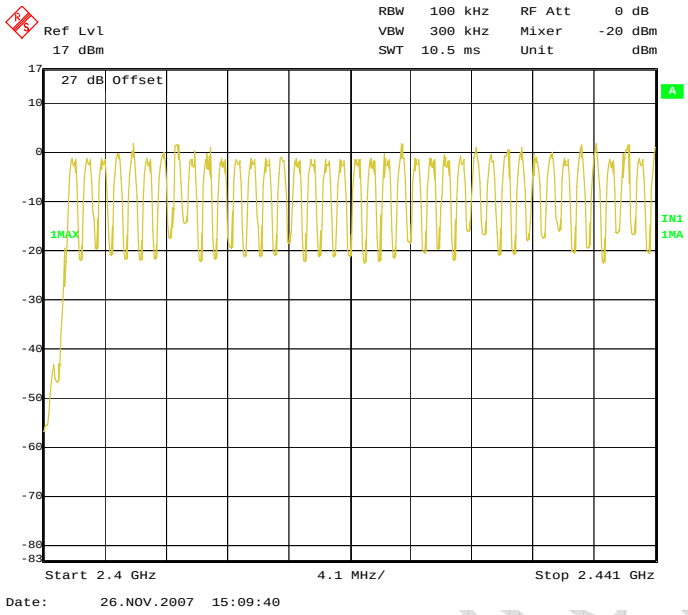
Test Result:

Result (No. of Ch)	Limit (No. of Ch)	Result
79	>75	Pass

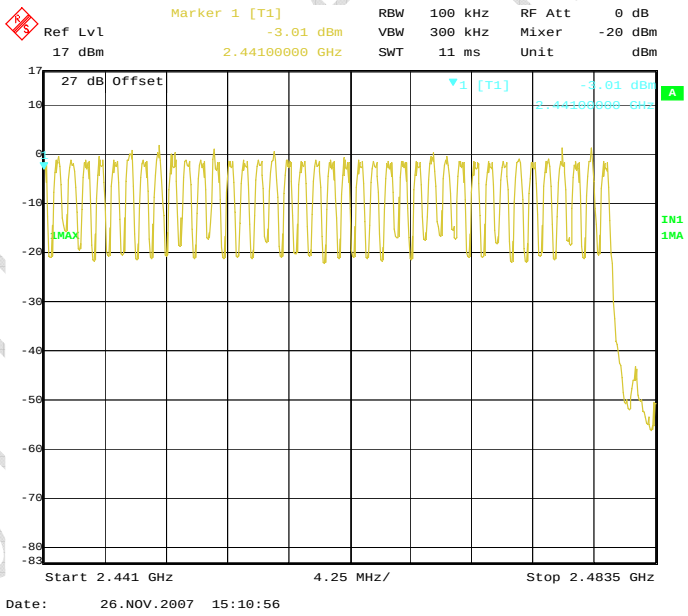
Test data:

Channel Number

2.4GHz-2.441GHz



2.441GHz-2.4835GHz



4.5 Time of occupancy

Specifications:	15.247(a)(1)(iii)
Date of Test	2007.11.26
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Operation Mode	Fix channel
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	2008-01-03	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3 m	--	2010-11-16	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2008-02-22	Normal

Test Setup

The EUT was placed in an anechoic chamber. The CMU 200 was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupling.

Test Result:

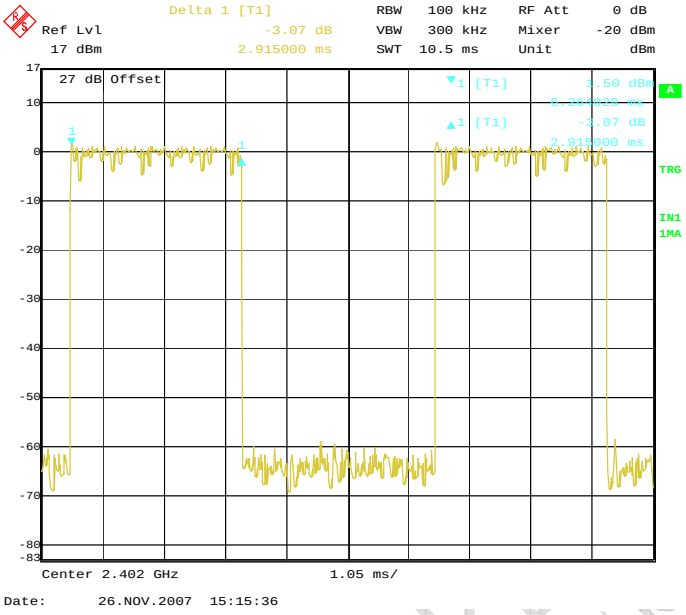
Function:

Total Dwell Time= $pulsetime \times \left(1600/6\right) / 79 \times 31.6$

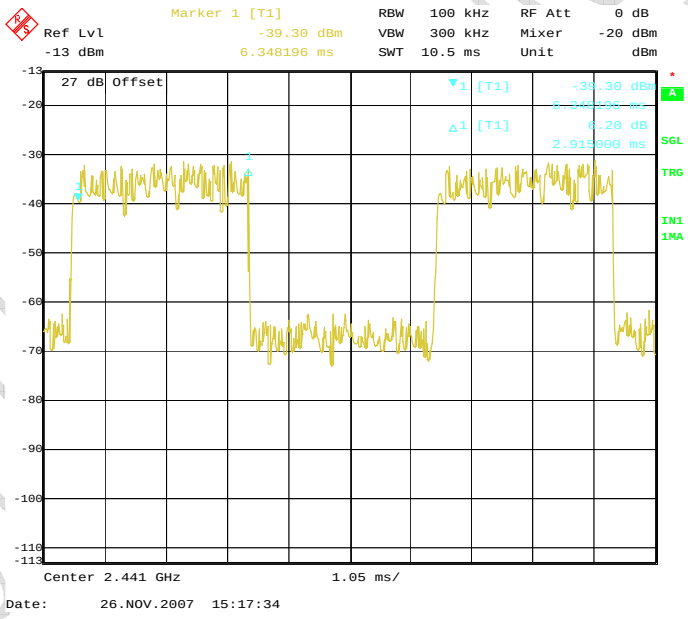
Channel	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
0	2.915	310.93	31.6	400	Pass
39	2.915	310.93	31.6		Pass
78	2.915	310.93	31.6		Pass

Test data:

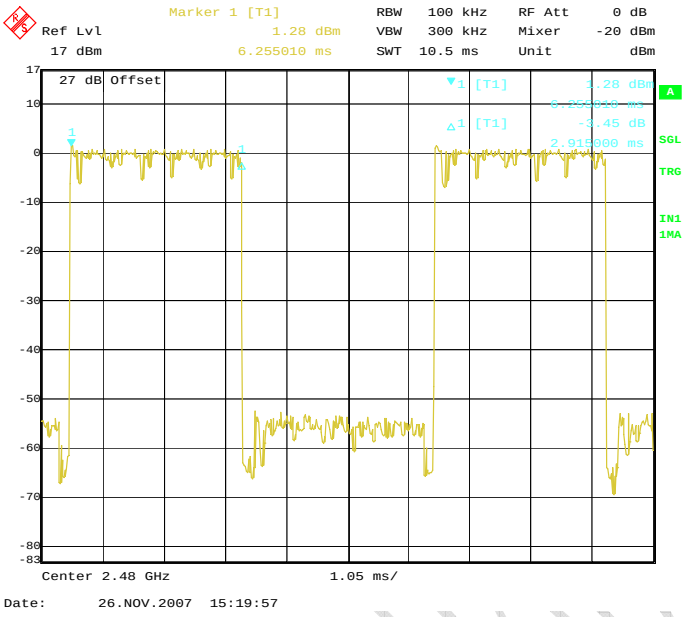
Channel 0



Channel 39



Channel 78



4.6 Spurious emission

4.6.1 Conducted Spurious Measurement

Specifications:	15.209(a) and 15.205(a)
Date of Test	2007.11.26
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Operation Mode	Fix channel transmit
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	2008-01-03	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2010-11-16	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2008-02-22	Normal

Test Setup

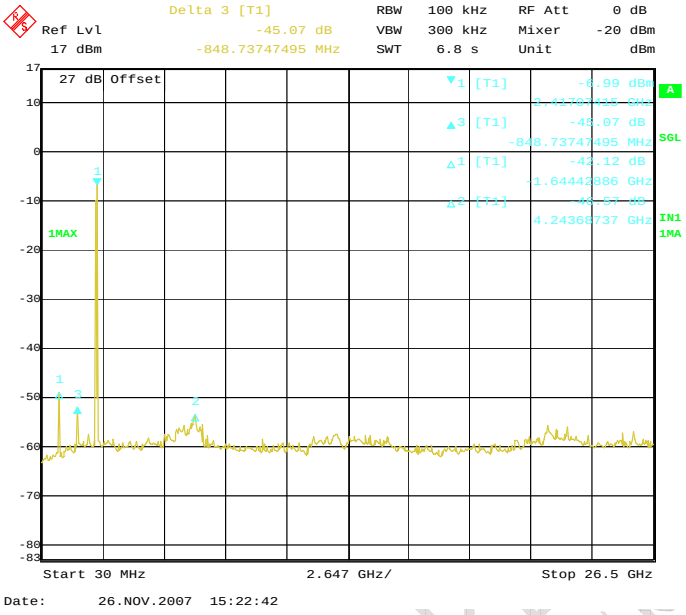
The EUT was placed in an anechoic chamber. The CMU 200 was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupling.

Test Result:

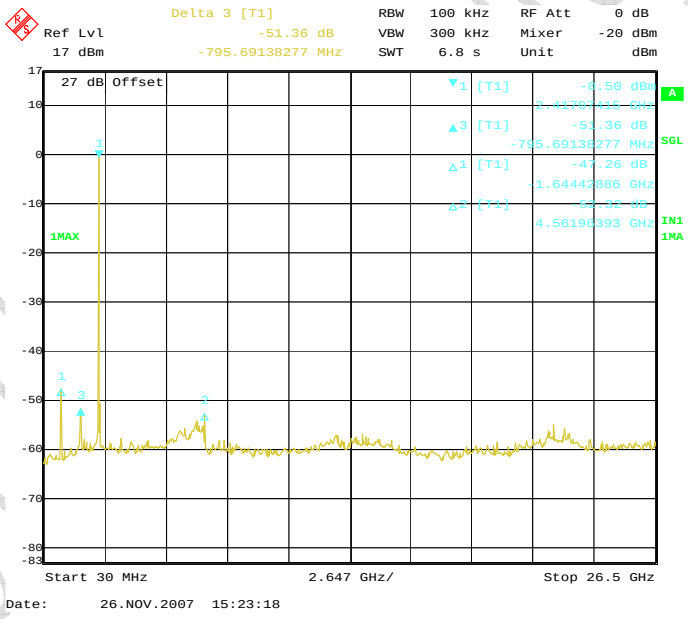
Channel	Result
0	Pass
39	Pass
78	Pass

Test data:

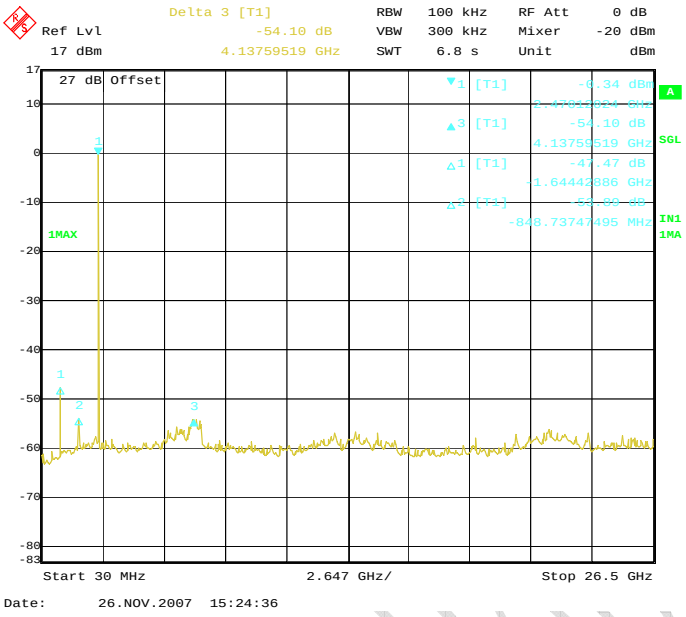
Channel 0



Channel 39



Channel 78



4.6.1 Radiated Spurious Measurement

Specifications:	15.209(a) and 15.205(a)
Date of Test	2007.11.26
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Operation Mode	hopping
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	2008-01-03	Normal
713	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2010-11-16	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2008-02-22	Normal

Test Setup

The EUT was placed in an anechoic chamber. The CMU 200 was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a Bilog antenna (for frequency under 1GHz) and a horn antenna (for frequency above 1GHz).

Limit:

Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Test result:
9kHz-30MHz

There is No frequency exceeds and near limit line in 20dB scope blow.

30MHz-1GHz

frequency	level	limit	Antenna height	Turntable azimuth	Antenna polarization
875.220	33.90	46.4	263	36	VERTICAL
876.840	33.00	46.4	307	314	HORIZONTAL
941.340	38.70	46.4	100	28	VERTICAL

Above 1GHz
Test from 1GHz up to 10th harmonic of transmit frequency.
Working frequency in 2.4GHz is exempt to test.
There is No frequency exceeds and near limit line in 20dB scope blow.

4.7 Power line Conducted Emissions

Specifications:	CISPR 22 voltage mains test
Date of Test	2007.11.26
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Operation Mode	Hopping
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	2008-01-03	Normal
7330	Artificial Mains Network	R/S	ESH2-Z5	837480/002	2009-01-9	Normal
714	Shielding Room	ETS	--	19003	2010-11-16	Normal
7330	Universal Radio Communications Tester	R&S	CMU200	100233	2008-02-22	Normal

Test Setup

The EUT was placed in an shielding room. The CMU 200 was used to set the TX channel and power level. The ac adapter output is connected to Spectrum analyzer through an AMN(Artificial Mains Network).

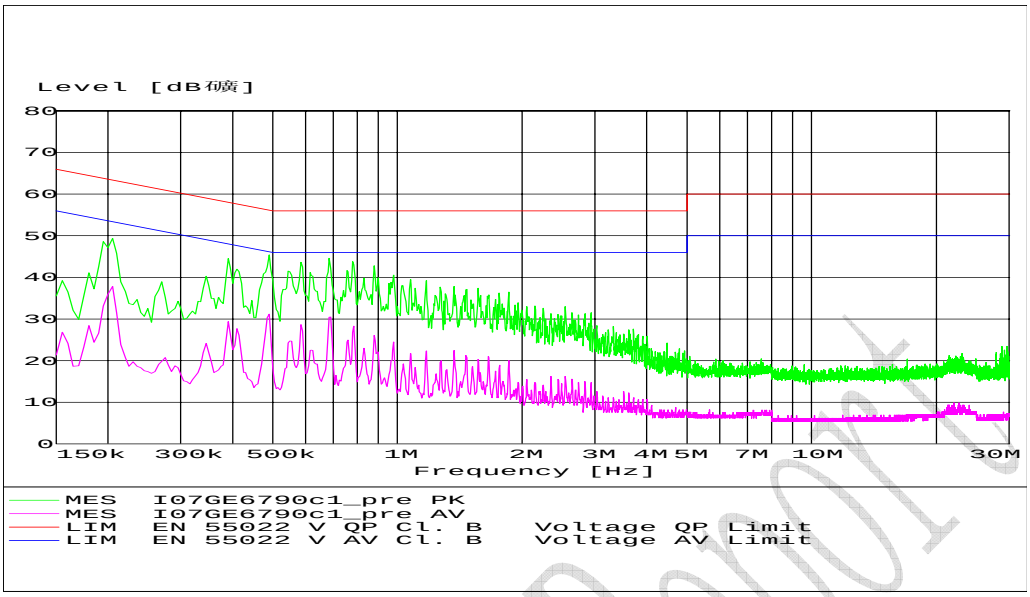
Limits of the conducted disturbance at the AC mains ports:

Frequency range	Limit(Quasi-peak)	Limit(Average)
0.15 MHz to 0.5 MHz	66 dBμV – 56 dBμV	56 dBμV – 46 dBμV
>0.5 MHz to 5MHz	56 dBμV	46 dBμV
>5 MHz to 30 MHz	60 dBμV	50 dBμV
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

Test Result:

Pass					
Detector (QP/AV)	**Frequency (MHz)**	**Level (dBμV)**	**Limit (dBμV)**	**Line**	**PE**
--	--	--	--	--	--
Remarks: No frequency exceeds the limit.					

Test data:

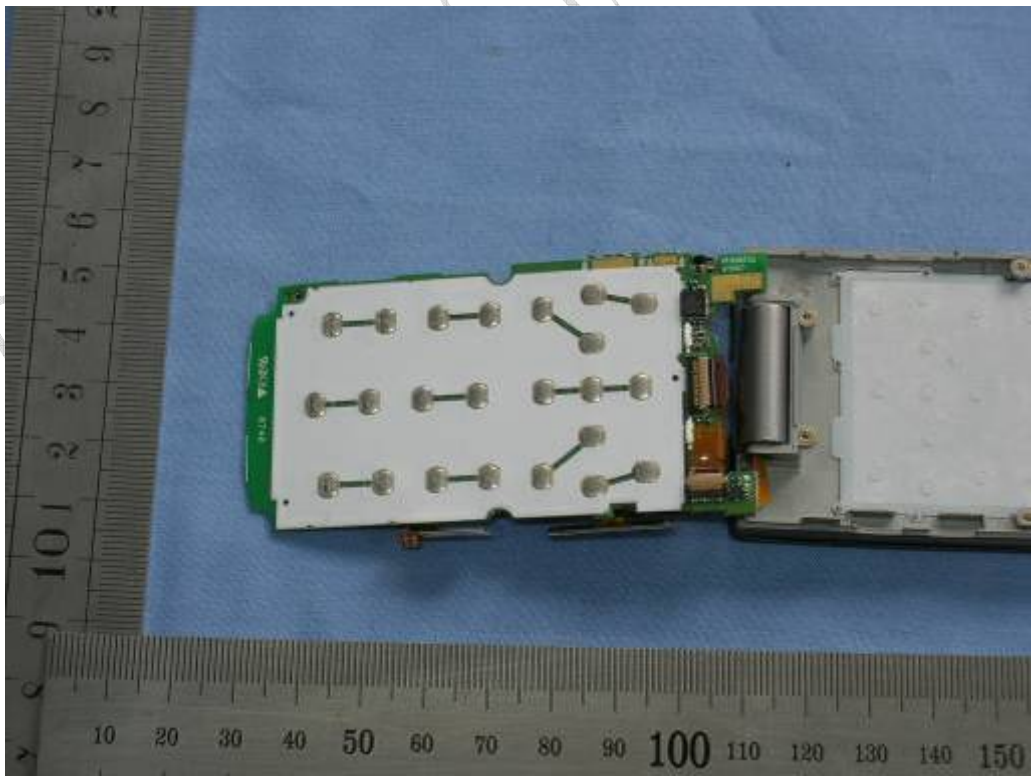


Annex A EUT Photos

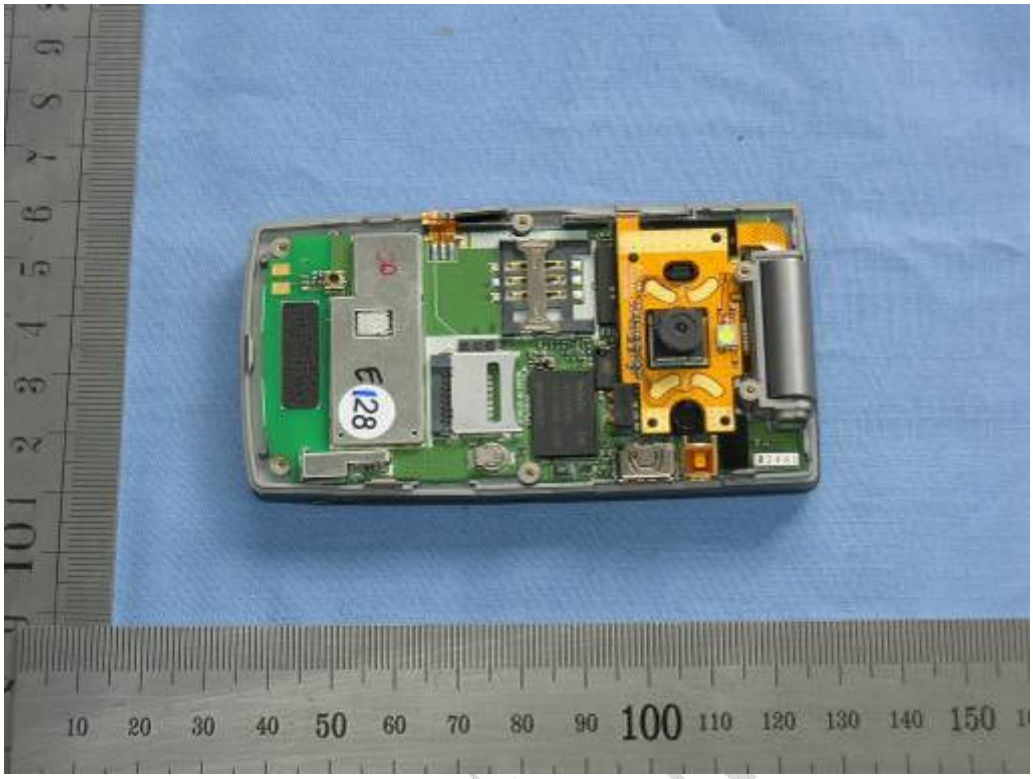
Picture 1 Front

Picture 2 Back

Picture 3 Open

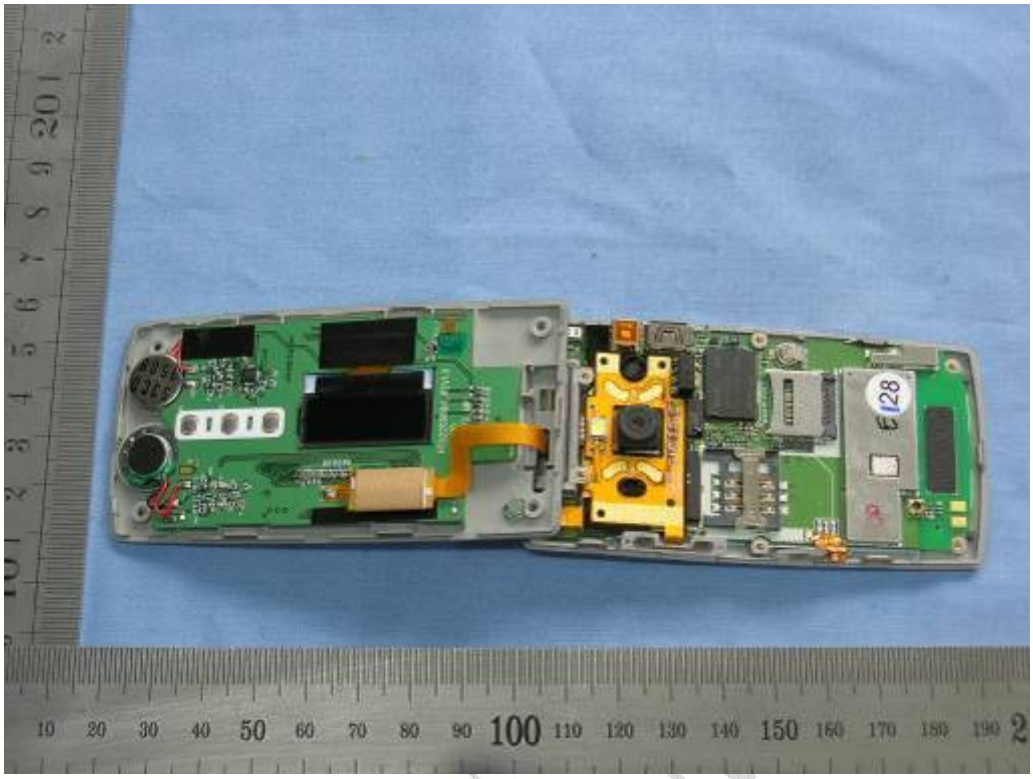


Picture 4 Mainboard face

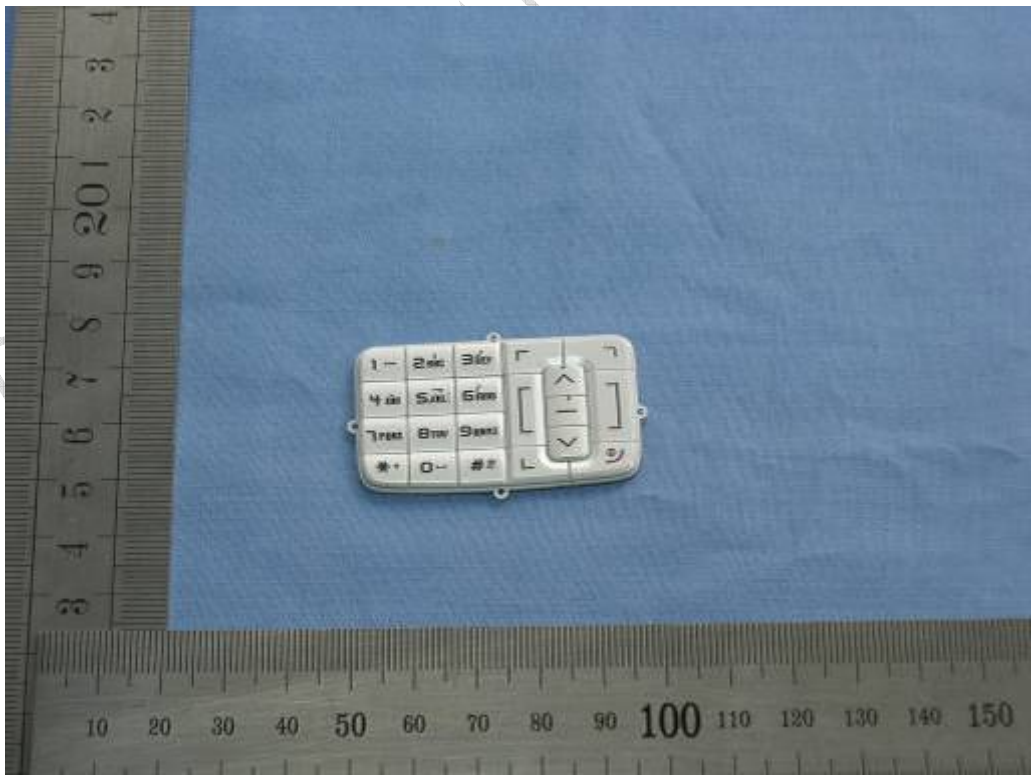


Picture 5 Mainboard (inversec)

Picture 6 Screen 1

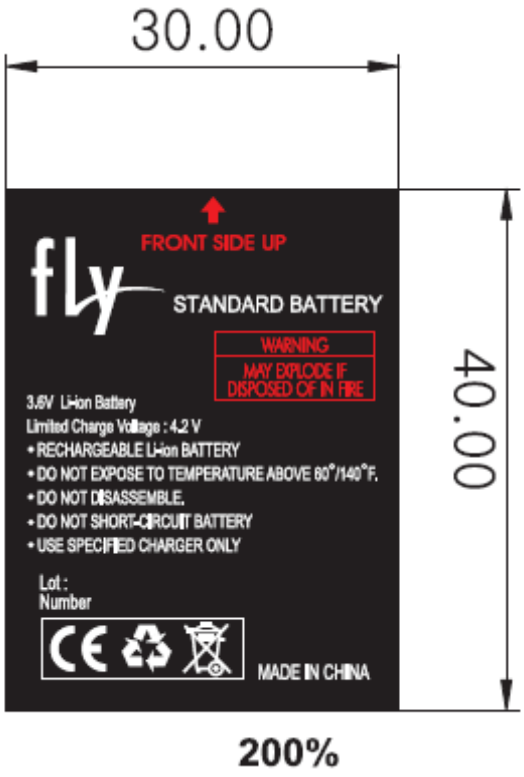


Picture 7 Screen and Mainboard

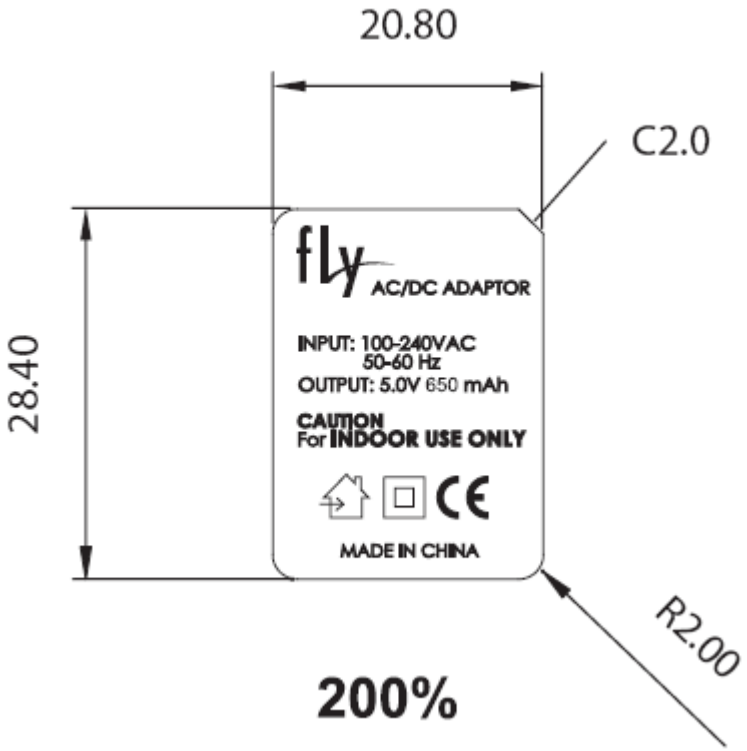


Picture 8 Keyboard

Picture 9 Adapter



Picture 10 Label of battery



Picture 11 Label of Adapter

ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

The End of this Report