HYUNDAI CALIBRATION & CERTIFICATION TECH. CO., LTD.



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CERTIFICATE OF COMPLIANCE

FCC Part 15C Certification

Ezze Mobile Tech., Inc.

3rd Floor, Bubmusa Bldg., 151-31, Nonhyun-dong, Kangnam-ku, Seoul, Korea

Date of Issue: April 06, 2007

Test Report No.: HCT-SAR07-0403

Test Site: HYUNDAI CALIBRATION & CERTIFICATION

TECHNOLOGIES CO., LTD.

FCC ID :

RV2SL599

APPLICANT : Ezze Mobile Tech., Inc.

EUT: Tri-band GSM Phone with Bluetooth (GSM850/DCS1800/PCS1900)

GPRS class 8 and GPRS mode class B (GPRS and GSM, but not simultaneously)

Trade Name: Ezze Mobile

Model: SL599

Frequency Range: 2402 — 2480 MHz (Bluetooth)

Max. RF Output Power: 0.00126 W Bluetooth (1.02 dBm)

FCC Classification: FCC Part 15 Frequency Hopping Spread Spectrum Transceiver (DSS)

FCC Rule Part(s): Part 15 subpart C (15.247)

Application Type: Certification

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in $\oint 2.947$.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Hyundai C-Tech Co., Ltd. Certifies that no party to this application has been denied FCC benefits pursuant to section 5301 of the Anti- Drug Abuse Act of 1998, 21 U.S. C. 853(a)

Report prepared by: Ki-Soo Kim

K SOO

Manager of Product Compliance Team

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Table of Contents

1. TEST RESULT CERTIFICATION	. 3
2. EUT DESCRIPTION	. 3
3. TEST METHODOLOGY	. 4
3.1 EUT CONFIGURATION	. 4
3.2 EUT EXERCISE	. 4
3.3 GENERAL TEST PROCEDURES	. 4
3.4 DESCRIPTION OF TEST MODES	. 4
4. INSTRUMENT CALIBRATION	. 5
5. FACILITIES AND ACCREDITATIONS	. 6
5.1 FACILITIES	. 6
5.2 EQUIPMENT	. 6
6. SETUP OF EQUIPMENT UNDER TEST.	. 6
6.1 SETUP CONFIGURATION OF EUT	. 6
7. FCC PART 15.247 REQUIREMENTS	. 7
7.1 PEAK POWER	. 7
7.2 BAND EDGES MEASUREMENT	. 0
7.2.1 BAND EDGES MEASUREMENT (Conducted)	. 0
7.2.2 BAND EDGES MEASUREMENT (Radiated)	. 2
7.3 FREQUENCY SEPARATION	. 7
7.4 NUMBER OF HOPPING FREQUENCY	2 0
7.5 TIME OF OCCUPANCY (DWELL TIME)	2 2
7.6 CONDUCTED MAESUREMENT	2 9
7.7 POWERLINE CONDUCTED EMISSIONS	ŧ 0
8. LIST OF TEST EQUIPMENT	1 6

1. TEST RESULT CERTIFICATION

Ezze Mobile Tech., Inc. Applicant:

3rd Floor, Bubmusa Bldg., 151-31, Nonhyun-dong,

Kangnam-ku, Seoul, Korea

Date of Test: April 5, 2007

2. EUT DESCRIPTION

Dan Lord	Tri-band GSM Phone with Bluetooth (GSM850/DCS1800/PCS1900)
Product	GPRS class 8 and GPRS mode class B (GPRS and GSM, but not simultaneously)
Trade Name	Ezze Mobile
Model	SL599
Power Supply	DCV power from the battery
Frequency Range	2402 ~ 2480 MHz
Transmit Power	0.00126 W Bluetooth (1.02 dBm)
Bandwidth	860 kHz
Modulation Technique	FHSS(GMSK)
Number of Channels	79 Channels
	Manufacturer: EMW Antenna Co. Ltd.
Automor Our elfication	Antenna type: Chip Type Ant
Antenna Specification	Part number : HIR-29705-0000AA
	Antenna Gain: Total Gain (Peak)[dBi] -3.167 dBi

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4.

(Version: 2003) Radiated testing was performed at an antenna to EUT distance 3 meters.

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the

Commissions requirement and operating in a manner that intends to maximize its emission

characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of

the measurements. According to its specifications, the EUT must comply with the requirements of

the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the

requirements in Section 13.1.4.1 of ANSI C63.4. (Version :2003) Conducted emissions from the

EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak

and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate

360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the

receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each

emission was to be maximized by changing the polarization of receiving antenna both horizontal

and vertical. In order to find out the max. emission, the relative positions of this hand-held

transmitter (EUT) was rotated through three orthogonal axes according to the requirements in

Section 13.1.4.1 of ANSI C63.4. (Version: 2003)

3.4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition. Test program used to control the EUT for

staying in continuous transmitting and receiving mode is programmed.

Channel low, mid and high with highest data rate (worst case) is chosen for full testing.

4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

The open area test site and conducted measurement facility used to collect the radiated data are

located at the 254-1, Maekok-Ri, Hobup-Myun, Ichon-Si, Kyoungki-Do, 467-701, KOREA. The site

is constructed in conformance with the requirements of ANSI C63.4. (Version :2003) and CISPR

Publication 22. Detailed description of test facility was submitted to the Commission and accepted

dated July 6, 2006(Registration Number: 90661)

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized

antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum

analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test

Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also

used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring

Apparatus and Measurement Methods."

6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and

support equipment.

7. FCC PART 15.247 REQUIREMENTS

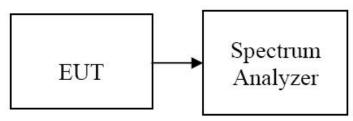
7.1 PEAK POWER

LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

- 1. For systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 watt.
- 2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the RF Power Meter. The RF Power Meter is set to the peak power detection.

TEST RESULTS

No non-compliance noted

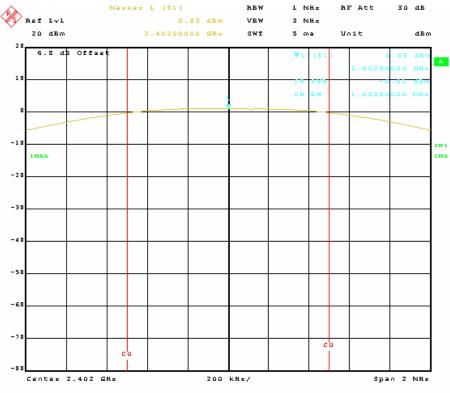
Test Data

Channel	Frequency (MHz)	Reading Power (dBm)	Factor (dB)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2402	- 7.16	8.2	0.83	0.00121		PASS
Mid	2440	- 7.68	8.2	1.02	0.00126	1	PASS
High	2480	- 8.36	8.2	0.75	0.00119		PASS

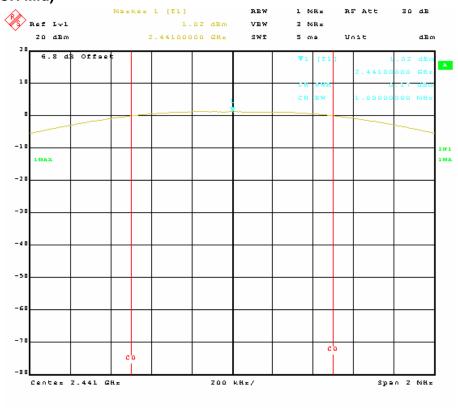


Test Plot

Peak Power (CH Low)

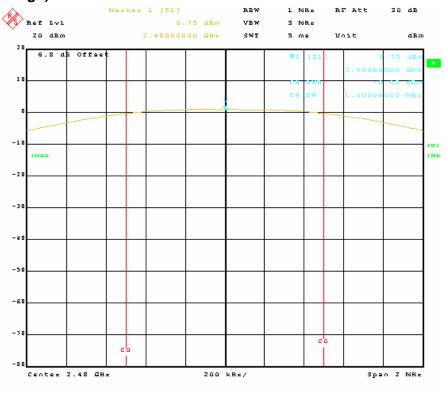


Peak Power (CH Mid)





Peak Power (CH High)

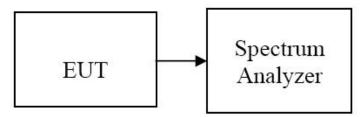


7.2 BAND EDGES MEASUREMENT 7.2.1 BAND EDGES MEASUREMENT (Conducted)

LIMIT

According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated inten-tional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that con-tains the highest level of the desired power, based on either an RF con-ducted or a radiated measurement, pro-vided the transmitter demonstrates compliance with the peak conducted power limits.

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW = 100 kHz, VBW = 100 kHz, Span = 8 MHz, Sweep = 5 ms
- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

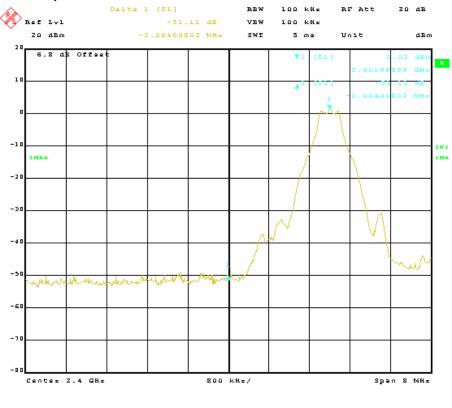
TEST RESULTS

Refer to the attached spectrum analyzer data chart.

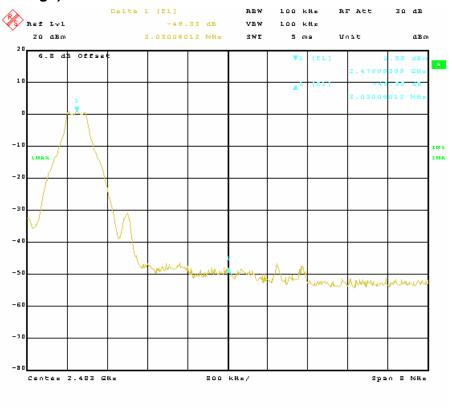


Test Data

Band Edges (CH-Low)



Band Edges (CH-High)



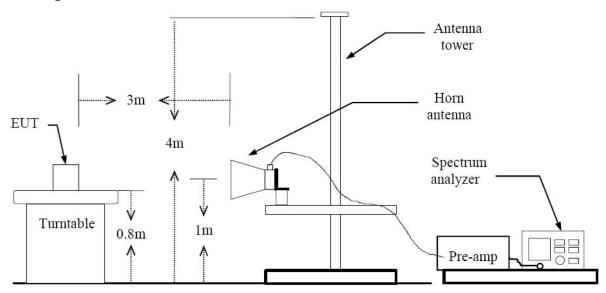
FCC ID: RV2SL599 DATE: April 06, 2007 Report No.: HCT-SAR07-0403

7.2.2 BAND EDGES MEASUREMENT (Radiated)

LIMIT

According to §15.247(c), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in15.209(a).

Test Configuration



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8 m above the ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emission.
- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW = VBW = 1 MHz / Sweep = AUTO
 - (b) AVERAGE: RBW = 1 MHz / VBW = 10 Hz / Sweep = AUTO
- 5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

TEST RESULTS

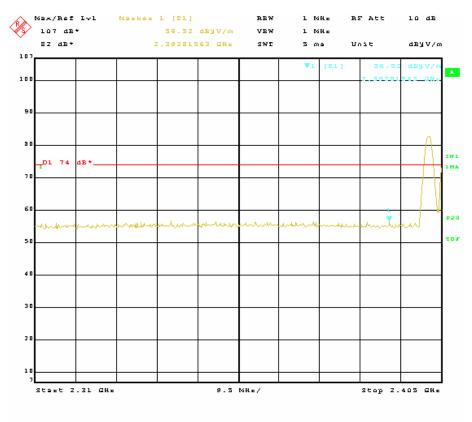
Refer to attach spectrum analyzer data chart.

Test Data



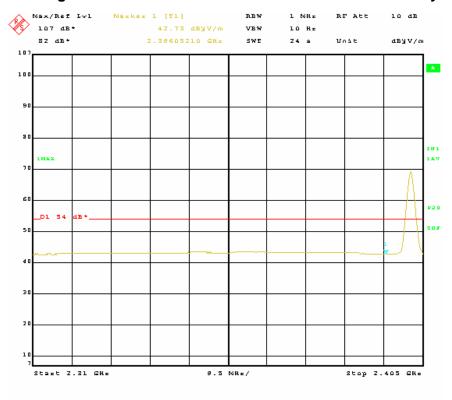
Band Edges (CH-Low)

Detector mode: Peak Polarity: Vertical



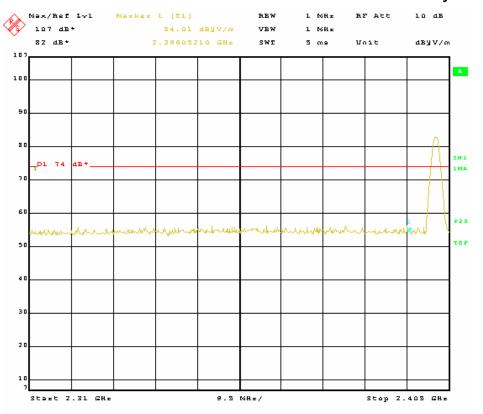
Detector mode: Average

Polarity: Vertical



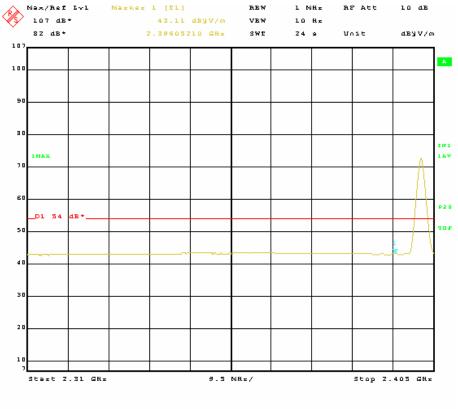


Detector mode: Peak Polarity: Horizontal



Detector mode: Average

Polarity: Horizontal



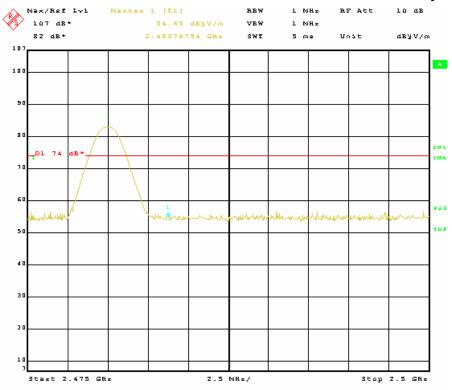
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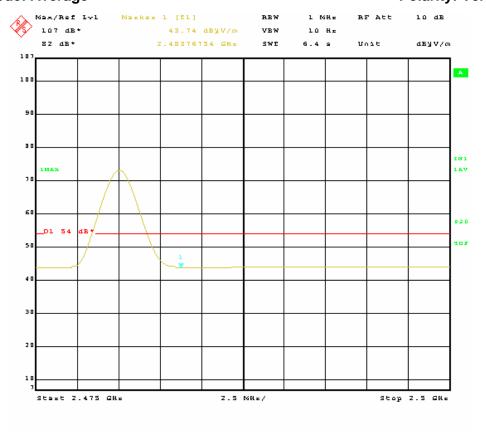


Band Edges (CH-High)

Detector mode: Peak Polarity: Vertical



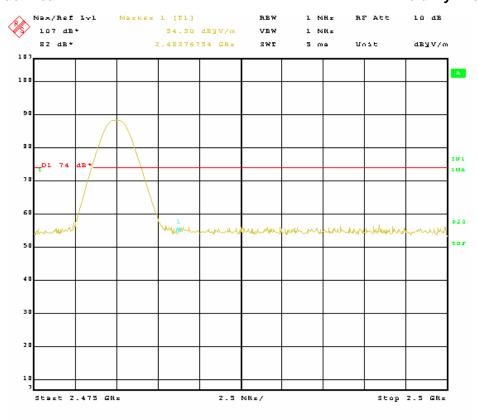
Detector mode: Average Polarity: Vertical





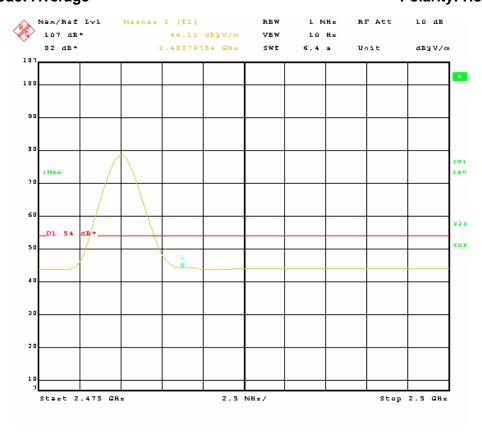
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

Polarity: Horizontal

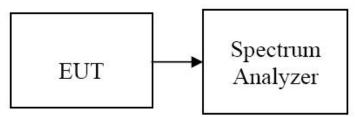


7.3 FREQUENCY SEPARATION

LIMIT

According to §15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set center frequency of spectrum analyzer = middle of hopping channel.
- 4. Set the spectrum analyzer as RBW, VBW = 100 kHz, Adjust Span to 5 MHz, Sweep = auto.
- 5. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

TEST RESULTS

No non-compliance noted

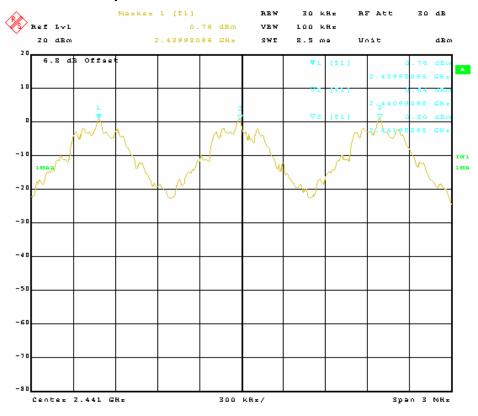
Test Data

Channel Separation	20dB Bandwidth	Limit	Result
(MHz)	(kHz)	(kHz)	
1.00	860	> 25	Pass

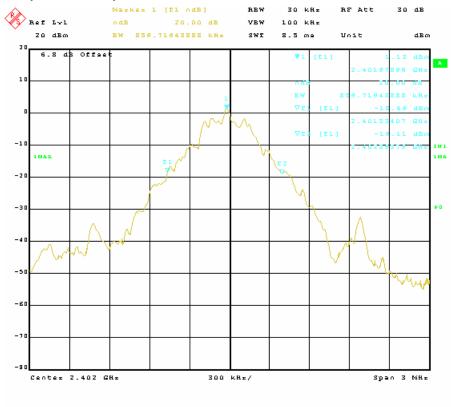


Test Plot

Measurement of Channel Separation

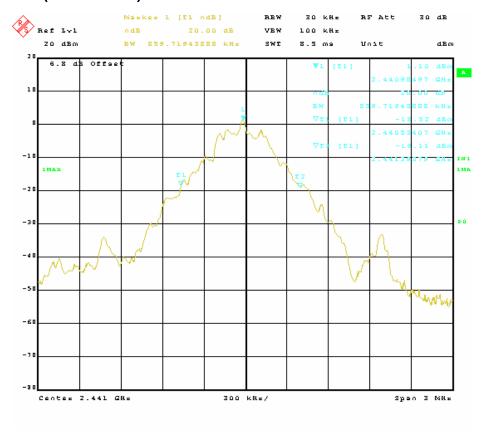


Test Plot 20 dB bandwidth (lowest: 0ch)





20 dB bandwidth (Middle: 39ch)



20 dB bandwidth (Highest: 78ch)

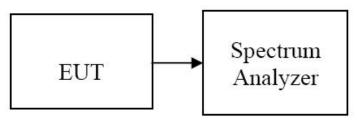


7.4 NUMBER OF HOPPING FREQUENCY

LIMIT

According to §15.247(a)(1)(ii), Frequency hopping systems operating in the 2400 MHz-2483.5 MHz bands shall use at least 15 hopping frequencies.

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set spectrum analyzer Start = 2400 MHz, Stop = 2441.5 MHz, Sweep = 250 s and Start = 2441.5 MHz, Stop = 2483.5 MHz, Sweep = 250 s.
- 4. Set the spectrum analyzer as RBW, VBW = 100 kHz,
- 5. Max hold, view and count how many channel in the band.

TEST RESULTS

No non-compliance noted

Test Data

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



Test Plot Channel Number

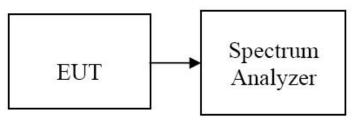


7.5 TIME OF OCCUPANCY (DWELL TIME)

LIMIT

According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400 MHz-2483.5 MHz bands. The average time of occupancy on any channels shall not greater than 0.4 s within a period 0.4 s multiplied by the number of hopping channels employed.

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set center frequency of spectrum analyzer = operating frequency.
- 4. Set the spectrum analyzer as RBW, VBW = 1 MHz, Span = 0 Hz, Sweep = auto.
- 5. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

No non-compliance noted

Test Data

DH 1

CH Low: 0.411 * (1600/2)/79 * 31.6 = 131.5 (ms)CH Mid: 0.411 * (1600/2)/79 * 31.6 = 131.5 (ms) CH High: 0.411 * (1600/2)/79 * 31.6 = 131.5 (ms)

Channel	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Low	0.411	131.5	31.6		PASS
Mid	0.411	131.5	31.6	400	PASS
High	0.411	131.5	31.6		PASS

DH₃

CH Low: 1.67 * (1600/4)/79 * 31.6 = 267.2 (ms) CH Mid: 1.67 * (1600/4)/79 * 31.6 = 267.2 (ms)CH High: 1.67 * (1600/4)/79 * 31.6 = 267.2 (ms)

Channel	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Low	1.67	267.2	31.6		PASS
Mid	1.67	267.2	31.6	400	PASS
High	1.67	267.2	31.6		PASS

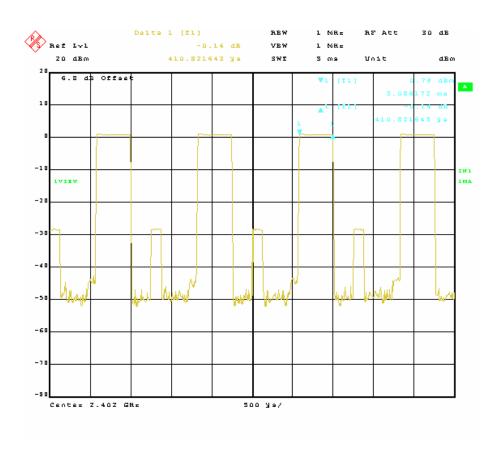
DH 5

CH Low: 2.93 * (1600/6)/79 * 31.6 = 311.5 (ms) CH Mid: 2.93 * (1600/6)/79 * 31.6 = 311.5 (ms) CH High: 2.93 * (1600/6)/79 * 31.6 = 311.5 (ms)

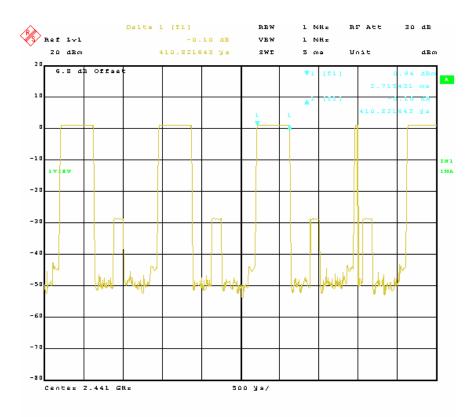
Channel	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Low	2.93	311.5	31.6		PASS
Mid	2.93	311.5	31.6	400	PASS
High	2.93	311.5	31.6		PASS



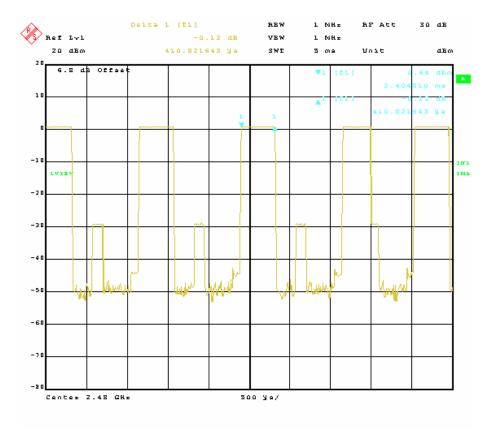
Test Plot DH 1 (CH Low)



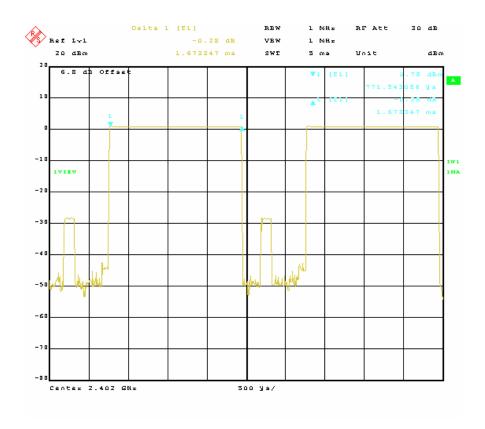
(CH Mid)



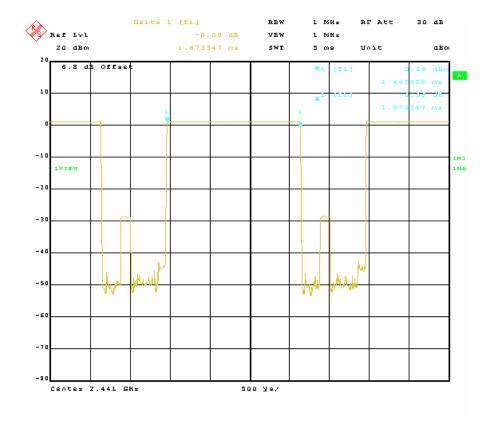
(CH High)



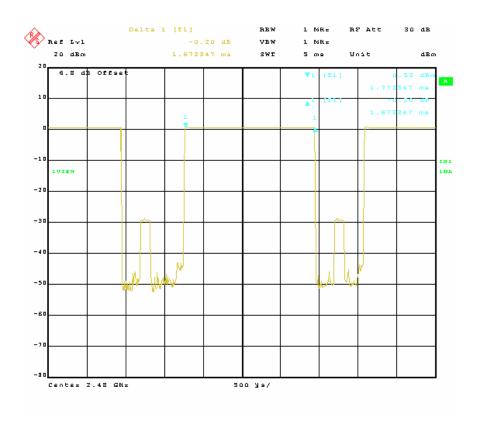
DH 3 (CH Low)



(CH Mid)

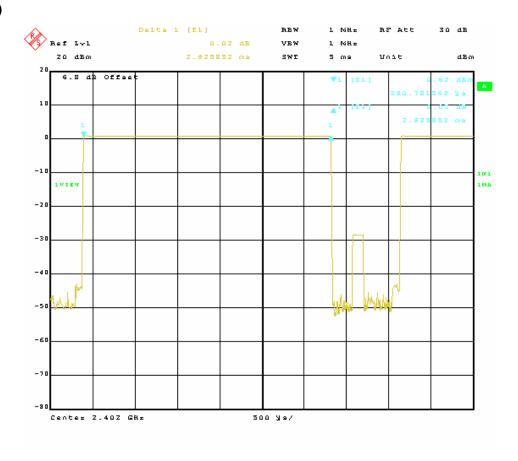


(CH High)

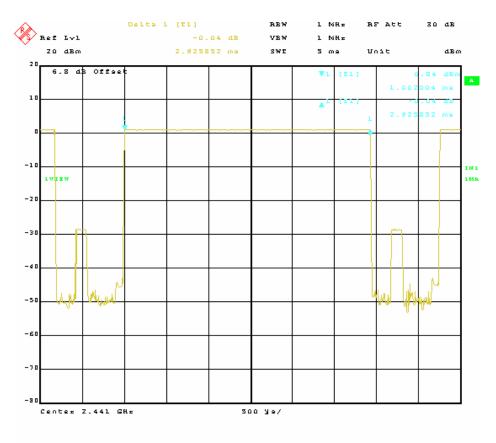




DH 5 (CH Low)

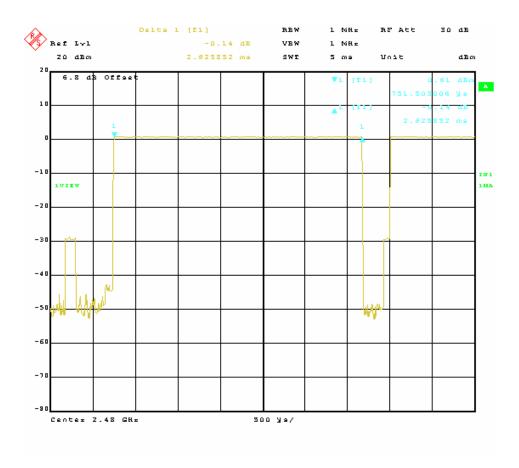


(CH Mid)





(CH High)



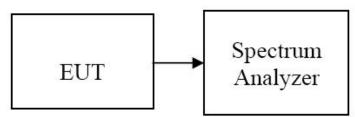
SPURIOUS EMISSIONS

7.6 CONDUCTED MAESUREMENT

LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Test Configuration



TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

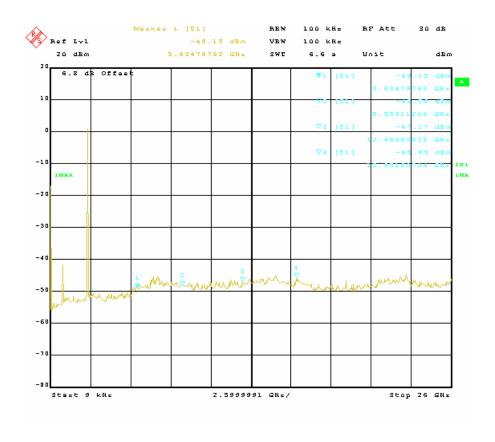
The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 KHz. The video bandwidth is set to 100 KHz.

Measurements are made over the 30 MHz to 26 GHz range with the transmitter set to the lowest, middle, and highest channels.

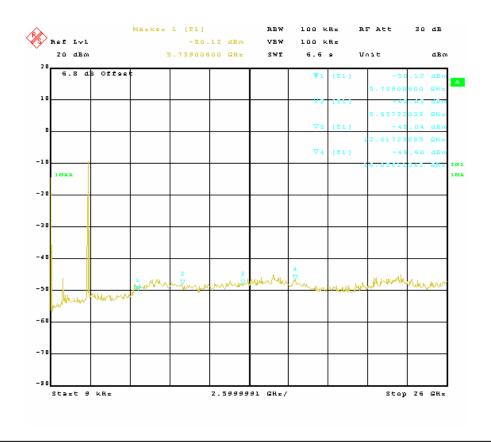
TEST RESULTS

No non-compliance noted

Test Plot CH Low

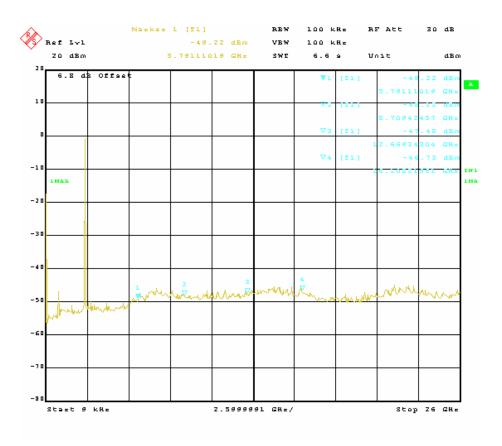


CH Mid





CH High



7.6.2 Radiated Emissions

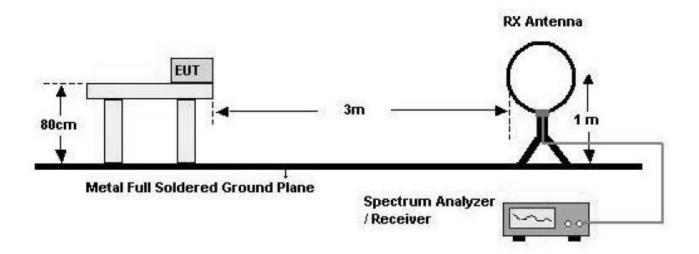
LIMIT

1. 20 dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed

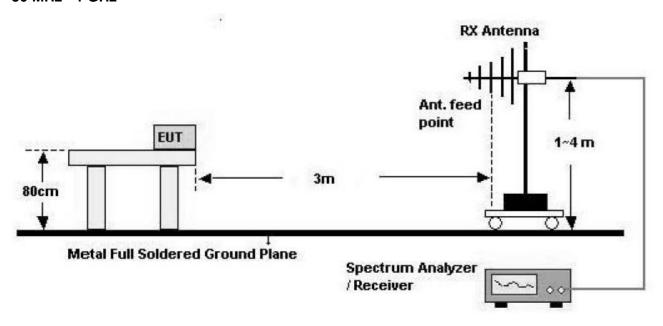
Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(KHz)	300
0.490 – 1.705	24000/F(KHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Test Configuration

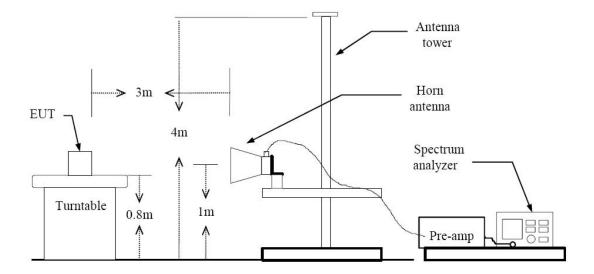
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8 m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3 m away from the receiving antenna, which is varied from 1m to 4 m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.

TEST RESULTS

9 kHz - 30MHz

Operation Mode: Normal Link

Frequency	Reading	Ant. Factor	Cable Loss	Total	Limit	Margin	Remark
MHz	dBuV	dB	dB	dBuV/m	dBuV/m	dB	dB
							See Note
							See Note
							See Note
							See Note

- 1. Measuring frequencies from 9 kHz to the 30MHz.
- 2. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
- 4. Limit line = specific Limits (dBuV) + Distance extrapolation factor

TEST RESULTS

Below 1 GHz

Operation Mode: Normal Link

Frequency	Reading	Ant. Factor	Cable Loss	ANT POL	Total	Limit	Margin
MHz	dBuV	dB	dB	(H/V)	dBuV/m	dBuV/m	dB
60.0	22.3	11.7	1.8	٧	35.8	40.0	-4.2
411.3	17.7	15.2	4.8	٧	37.7	46.0	-8.3
498.1	16.7	16.9	5.3	٧	38.9	46.0	-7.1
60.1	23.0	11.7	1.8	Н	36.5	40.0	-3.5
498.5	16.8	16.9	5.3	H	39.0	46.0	-7.0
510.1	15.8	17.1	5.3	Н	38.2	46.0	-7.8

- 1. Measuring frequencies from 30 MHz to the 1 GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1 GHz was 100 kHz.

Above 1 GHz

Operation Mode: CH Low

Frequency	Level	AN. CL.	ANT. POL	Total	Limit	Margin	Dotoot
[MHz]	[dBuV]	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4804.00	-2.1	36.7	V	34.6	54	-19.4	AV
4804.00	4.2	36.7	Н	40.9	54	-13.1	AV
7206.00	-5.1	40.5	V	35.4	54	-18.6	AV
7206.00	-3.3	40.5	Н	37.2	54	-16.8	AV
4804.00	11.5	36.7	Н	48.2	74	-25.8	PK
N/A							

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
- a. Peak Setting 1 GHz 2 6GHz, RBW = 1 MHz, VBW = 1 MHz, Sweep time = 200 ms.
- b. AV Setting 1 GH z- 26 GHz, RBW = 1 MHz, VBW = 10 Hz, Sweep time = 200 ms.

Operation Mode: CH Mid

Frequency	Level	AN. CL.	ANT. POL	Total	Limit	Margin	Detect
[MHz]	[dBuV]	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4882.00	-2.1	36.9	V	34.8	54	-19.2	AV
4882.00	3.2	36.9	Н	40.1	54	-13.9	AV
7323.00	-4.2	40.7	V	36.5	54	-17.5	AV
7323.00	-1.3	40.7	Н	39.4	54	-14.6	AV
4882.00	12.4	36.7	Н	49.1	74	-24.9	PK
N/A							

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1 GHz 26 GHz, RBW = 1 MHz, VBW = 1 MHz, Sweep time = 200 ms.
 - b. AV Setting 1 GHz- 26 GHz, RBW = 1 MHz, VBW = 10 Hz, Sweep time = 200 ms.

Operation Mode: CH High

Frequency	Level	AN. CL.	ANT. POL	Total	Limit	Margin	Detect
[MHz]	[dBuV]	[dB]	[H/V]	[dBuV/m]	[dBuV/m]	[dB]	Detect
4960.00	-2.0	37.1	V	35.1	54	-18.9	AV
4960.00	3.2	37.1	Н	40.3	54	-13.7	AV
7440.00	-4.6	41.0	V	36.4	54	-17.6	AV
7440.00	-1.2	41.0	Н	39.8	54	-14.2	AV
4960.00	11.2	36.7	Н	47.9	74	-26.1	PK
N/A							

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1 GHz 26 GHz, RBW = 1 MHz, VBW = 1 MHz, Sweep time = 200 ms.
 - b. AV Setting 1 GHz- 26 GHz, RBW = 1 MHz, VBW = 10 Hz, Sweep time = 200 ms.

7.7 POWERLINE CONDUCTED EMISSIONS

LIMIT

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

- 1. The EUT was placed on a table, which is 0.8 m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

	Power Line Condu	FCC C	lass B		
Frequency (MHz)	Amplitude (dBuV)	Conductor	Result	Limit (dBuv)	Margin (dB)
0.1976	51.8	НОТ	Quasi-Peak	56	- 11.9
0.1976	43.1	НОТ	Average	46	- 10.6
0.1976	51.6	NEUTRAL	Quasi-Peak	56	- 12.1
0.1976	42.6	NEUTRAL	Average	46	- 11.1

Line Conducted Emissions Tabulated Data

Test Plot

Conducted emissions (Line 1)

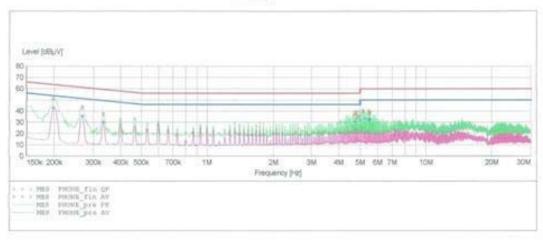
HCT

EMC TEST LAB.

Manufacturer: EZZE MOBILE TECH
Operating Condition: DATA COMMUNICATION MODE
Test Site: SHIELD ROOM Manufacturer: Test Site: Operator: DH.RYU
Test Specification: CISPR 22 CLASS B
Comment: H

SCAN TABLE: "CISPR 22 Voltage"

Start Frequency	Stop	Step	CISPR 22 Vol Detector	Meas.	IF Bandw.	Transducer
150.1 kHz			MaxPeak Average	10.0 ms	9 kHz	None
500.0 kHz	5.0 MHz	5.0 kHz	MaxPeak Average	10.0 ms	9 kHz	None
5.0 MHz	30.0 MHz	5.0 kHz	MaxPeak Average	10.0 ms	9 kHz	None



MEASUREMENT RESULT: "PHONE fin QP"

Frequency MHz	Level dSµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.197600	51.80	10.0	64	11.9		
0.267600	44.00	10.0	61	17.2	-	
0.332600	37.90	10.0	59	21.5		
4.725000	37.50	10.6	56	18.5	-	
4.790000	38.90	10.6	56	17.1	10000	-
4.920000	35.60	10.6	56	20.4	100.00	-
5.125000	40.50	10.6	60	19.5		200
5,455000	40.00	10.7	60	20.0		
5.525000	38.80	10.7	60	21.2	-	



MEASUREMENT RESULT: "PHONE fin AV"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.197600	43.10	10.0	54	10.6		
0.267600	35.80	10.0	51	15.3		br-10-00
0.332600	30.50	10.0	49	18.9	00.00	10 14 40
4.725000	30.90	10.6	46	15.1	-	
4.790000	33.40	10.6	46	12.6		
4.990000	31.90	10.6	46	14.1		-
5.255000	33.70	10.7	50	16.3		-
5.455000	32.70	10.7	50	17.3		
5.525000	32.70	10.7	50	17.3		94-96-90

Conducted emissions (Line 2)

HCT

EMC TEST LAB.

Manufacturer: EZZE MOBILE TECH

Operating Condition: DATA COMMUNICATION MODE

Test Site: SHIELD ROOM

Operator: DH.RYU

Test Specification: CISPR 22 CLASS B

Comment:

SCAN TABLE: "CISPR 22 Voltage" Short Description: CISPR CISPR 22 Voltage Detector Meas. IF Start Stop Step Frequency Frequency Width 150.1 kHz 500.0 kHz 2.5 kHz Transducer Time Bandw. 10.0 ms 9 kHz MaxPeak None Average 500.0 kHz 5.0 MHz 5.0 kHz 10.0 ms 9 kHz None MaxPeak Average 5.0 MHz 30.0 MHz 5.0 kHz 10.0 ms 9 kHz MaxPeak None



MEASUREMENT RESULT: "PHONE fin QP"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.152600	36.20	10.0	66	29.7	200	
0.197600	51.60	10.0	64	12.1		-
0.265100	44.30	10.0	61	17.0	20.00.00	-
4.725000	38.30	10.6	56	17.7		
4.860000	37.80	10.6	56	18.2	40.00	
4.995000	35.60	10.6	56	20.4	00.00	
5.060000	40.20	10.6	60	19.8	-	
5.190000	38.30	10.6	60	21.7		
5.460000	40.10	10.7	60	19.9		



Report No.: HCT-SAR07-0403 DATE: April 06, 2007 FCC ID: RV2SL599

MEASUREMENT RESULT: "PHONE fin AV"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.197600	42.60	10.0	54	11.1		
0.265100	36.10	10.0	51	15.1		-
0.465100	26.10	10.1	47	20.5	all decises.	100 000 000
4.725000	31.60	10.6	46	14.4	-	
4.860000	33.60	10.6	46	12.4		
4.990000	30.80	10.6	46	15.2	10.00000	100.00
5.190000	32.20	10.6	50	17.8		
5.460000	33.40	10.7	50	16.6		
24,000000	35.40	12.6	50	14.6	NO SECTION 1	10.00



DATE: April 06, 2007

8. LIST OF TEST EQUIPMENT

Manufacturer	Model / Equipment	Calibration Date	Cal Interval	Calibration Due	Serial No.
Rohde & Schwarz	ESI40/ EMI Test Receiver	11/06/2006	Annual	11/06/2007	831564103
Rohde & Schwarz	ESCI/ EMI Test Receiver	08/24/ 2006	Annual	08/24/ 2007	100033
Rohde & Schwarz	ESH2-Z5/ LISN	04/26/2006	Annual	04/26/2007	861741/013
EMCO	703125/ LISN	04/26/2006	Annual	04/26/2007	1357
Schwarzbeck	VULB 9160/ TRILOG Antenna	03/19/2007	Annual	03/19/2008	9160-3150
HD	MA240/ Antenna Position Tower	N/A	N/A	N/A	556
EMCO	1050/ Turn Table	N/A	N/A	N/A	114
Voltech	PM 3300/ Power Analyzer	03/20/2007	Annual	03/20/2008	AK06/8896
Voltech	IEC555/ReferenceNetwork Impedance	N/A	N/A	N/A	IC0618898
Tescom	TC-3000/ Bluetooth Simulator	01/22/2007	Annual	01/22/2008	3000A4900112
PACIFIC	Magnetic Module/ AC Power Source	N/A	N/A	N/A	212
PACIFIC	360-AMX/ AC Power Source	12/28/2006	Annual	12/28/2007	212
HD GmbH	HD 100/ Controller	N/A	N/A	N/A	13
HD GmbH	KMS 560/ SlideBar	N/A	N/A	N/A	12
Rohde & Schwarz	ESH3-Z2/ PULSE LIMITER	10/30/2006	Annual	10/30/2007	375.8810.352
MITEQ	AMF-6D-001180-35-209/ AMP	04/26/2006	Annual	04/26/2007	567624
Schwarzbeck	BBHA 9120D/ Horn Antenna	03/30/2006	Annual	03/30/2008	147
Rohde & Schwarz	HFH2-Z2/Loop Antenna	01/10/2007	Annual	01/10/2008	881056/070
ADVANTEST	R3273/Spectrum Analyzer	06/15/2006	Annual	06/15/2007	J004821
Agilent	E4416A /Power Meter	01/22/2007	Annual	01/22/2008	GB41291412
Weinschel	2/Attenuator	01/24/2007	Annual	01/24/2008	BR0554
Wainwright Instrument	WHF3.3/18G-10EF / High Pass Filter	06/28/2006	Annual	06/28/2007	1