

EMC

TEST REPORT

Report No. : EME-060113

Model No. : 36271, MB6271

Issued Date : Feb. 20, 2006

**Applicant : SENTON Enterprises Limited
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Fo Tan, Shatin, N.T. Hong Kong**

**Test By : Intertek Testing Services Taiwan Ltd.
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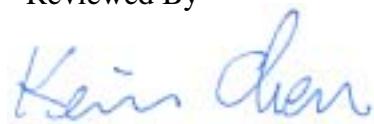
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Project Engineer



Jerry Liu

Reviewed By



Kevin Chen

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Summary of Tests**Cordless Phone -Model: 36271**
FCC ID: PEG36271

| Test | Reference | Results |
|------------------------------------|-------------------|----------|
| Power Line Conducted Emission test | 15.207 | Complies |
| Radiated Emission test | 15.249(c), 15.209 | Complies |

1. General information

1.1 Identification of the EUT

Applicant : SENTON Enterprises Limited
Product : Cordless Phone
Model No. : 36271
FCC ID. : PEG36271
Frequency Range : Base: 2403.05MHz ~ 2405.00MHz
Handset: 2474.00MHz ~ 2475.95MHz
Channel Number : 29channels
Frequency of Each Channel : Base: 2403.05MHz+0.05k MHz k=0~39
Handset: 2474.00MHz+0.05k MHz k=0~39
Type of Modulation : FM
Power Supply : Base: 120Vac, 60Hz with adatper(Model: U090020D)
Handset: 3.6Vdc from Battery
Power Cord : RJ-11 unshielded cable 10meter × 1
Sample Received : Jan. 25, 2006
Test Date(s) : Jan. 27, 2006 ~ Feb. 6, 2006

A DoC report has been generated for the client.

1.2 Additional information about the EUT

The EUT is a Cordless Phone, it consists of handset unit and base unit.

The models listed below are identical to model 36271 (EUT).
Different brand serves as marking strategy.

| Trade Name | Model Number |
|--------------|--------------|
| Unical | 36271 |
| Bell Phone | 36271 |
| Moutain Bell | MB6271 |

For more detail features, please refer to User's manual as file name "Installation guide.pdf"

1.3 Antenna description

The EUT uses a permanently connected antenna.

Antenna Gain : 0dBi max

Antenna Type : Soldering antenna

Connector Type : Lead Wire

1.4 Peripherals equipment

| Peripherals | Manufacturer | Product No. | Serial No. | FCC ID |
|----------------|--------------|--------------|------------|------------------|
| Telephone | TENTEL | K-903S | 0514000477 | FCC DoC Approved |
| Exchange Board | Teltone | 250-00193-07 | 94948 | FCC DoC Approved |

2. Test specifications

2.1 Test standard

The EUT was performed according to the procedures in FCC Part 15 Subpart C Paragraph 15.249 for non-spread spectrum devices.

The test of radiated measurements according to FCC Part15 Section 15.33(a) had been conducted and the field strength of this frequency band were all meet limit requirement, thus we evaluate the EUT pass the specified test.

2.2 Operation mode

During the radiated emission tests, the EUT was operated in continuously transmitting status.

The EUT was operated in charging and ringing made in conducted emission test.

2.3 Test equipment

| Equipment | Brand | Frequency range | Model No. | Intertek ID No. | Next Cal. Date |
|-------------------|-----------------|-----------------|-----------|-----------------|----------------|
| EMI Test Receiver | Rohde & Schwarz | 9kHz~2.75GHz | ESCS 30 | EC303 | 04/17/2006 |
| EMI Test Receiver | Rohde & Schwarz | 20Hz~26.5GHz | ESMI | EC317 | 08/07/2006 |
| Spectrum Analyzer | Rohde & Schwarz | 9kHz~30GHz | FSP 30 | EC353 | 07/24/2006 |
| Spectrum Analyzer | Rohde & Schwarz | 20Hz~40GHz | FSEK 30 | EC365 | 11/01/2006 |
| Horn Antenna | EMCO | 1GHz~18GHz | 3115 | EC338 | 08/16/2006 |
| Horn Antenna | SCHWARZBECK | 14GHz~40GHz | BBHA 9170 | EC351 | 07/08/2006 |
| Bilog Antenna | SCHWARZBECK | 25MHz~1.7GHz | VULB 9160 | EC368 | 05/20/2006 |
| Pre-Amplifier | MITEQ | 100MHz~26.5GHz | 919981 | EC373 | 4/13/2006 |
| Pre-Amplifier | MITEQ | 26GHz~40GHz | 828825 | EC374 | 1/28/2007 |
| Controller | HDGmbH | N/A | HD 100 | EP317-1 | N/A |
| Antenna Tower | HDGmbH | N/A | MA 240 | EP317-2 | N/A |
| Turn Table | HDGmbH | N/A | DS 420S | EP317-3 | N/A |
| LISN | Rohde & Schwarz | 9KHz~30MHz | ESH3-Z5 | EC344 | 01/14/2007 |

Note: The above equipments are within the valid calibration period.

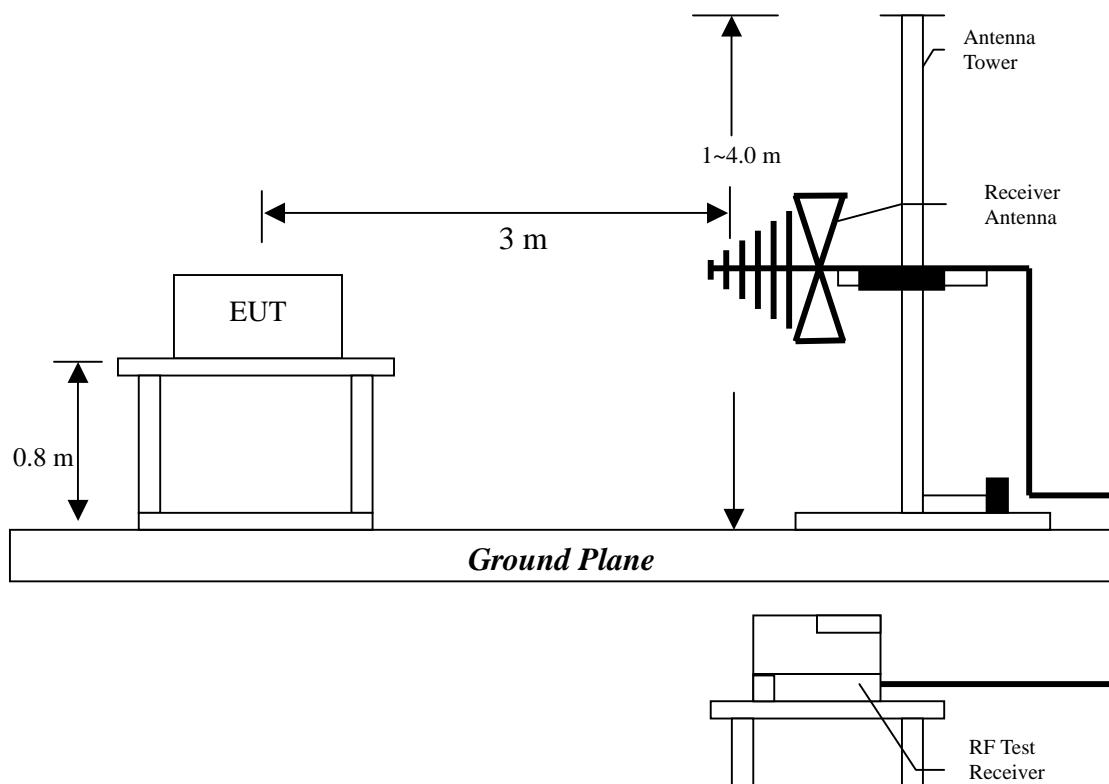
3. Radiated emission test FCC 15.249 (C)

3.1 Operating environment

Temperature: 23
 Relative Humidity: 56 %
 Atmospheric Pressure: 1023 hPa

3.2 Test setup & procedure

The Diagram below shows the test setup, which is utilized to make these measurements.



The signal is maximized through rotation and placement in the three orthogonal axes. Radiated emissions were investigated over the frequency range from 30MHz to 1000MHz using a receiver RBW of 120kHz record QP reading, and the frequency over 1GHz using a spectrum analyzer RBW of 1MHz and 10Hz VBW record Average reading. (15.209 paragraph), the Peak reading (1MHz RBW/VBW) recorded also on the report. The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.

The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance.

This test of handset was verified at three orthogonal axes, and the test configuration was listed below:



Setup 1



Setup 2



Setup 3

After verifying three axes, the worst case was occurred at setup 1 configuration. The final test was executed under this configuration and recorded in this report.

The EUT configuration please refer to the “Spurious set-up photo.pdf”.

3.3 Emission limit

3.3.1 Fundamental and harmonics emission limits

| Frequency (MHz) | Field Strength of Fundamental | | Field Strength of Harmonics | |
|-----------------|-------------------------------|-------------|-----------------------------|-------------|
| | (mV/m@3m) | (dBuV/m@3m) | (uV/m@3m) | (dBuV/m@3m) |
| 2400-2483.5 | 50 | 94 | 500 | 54 |

3.3.2 General radiated emission limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

| Frequency MHz | 15.209 Limits (dB μ V/m@3m) |
|------------------|------------------------------------|
| 30-88 | 40 |
| 88-216 | 43.5 |
| 216-960 | 46 |
| Above 960 | 54 |

Remark:

1. In the above table, the tighter limit applies at the band edges.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

Uncertainty was calculated in accordance with NAMAS NIS 81.

Expanded uncertainty ($k=2$) of radiated emission measurement is ± 4.98 dB.

3.4 Radiated spurious emission test data

3.4.1 Measurement results: frequencies equal to or less than 1 GHz

The test was performed on EUT under continuously transmitting mode. Channel 1, 40 were verified. The worst case occurred at Tx channel 1.

EUT : 36271
 Test Unit : Base
 Worst Case : Tx at channel 1

| Frequency (MHz) | Spectrum Analyzer | Antenna | Correction Factor (dB/m) | Reading (dBuV) | Corrected Level (dBuV/m) | Limit @ 3 m (dBuV/m) | Margin (dB) | Antenna high (cm) | Turn Table angle (degree) |
|-----------------|-------------------|---------|--------------------------|----------------|--------------------------|----------------------|-------------|-------------------|---------------------------|
| 36.250 | QP | V | 12.62 | 11.50 | 24.12 | 40.00 | -15.88 | 111 | 298 |
| 48.700 | QP | V | 12.84 | 7.90 | 20.74 | 40.00 | -19.26 | 100 | 178 |
| 107.800 | QP | V | 7.64 | 10.50 | 18.14 | 43.50 | -25.36 | 113 | 107 |
| 222.000 | QP | V | 12.08 | 11.08 | 23.16 | 46.00 | -22.84 | 108 | 84 |
| 318.000 | QP | V | 14.10 | 9.98 | 24.08 | 46.00 | -21.92 | 155 | 225 |
| 770.000 | QP | V | 22.81 | 9.92 | 32.73 | 46.00 | -13.27 | 169 | 189 |
| 37.800 | QP | H | 13.21 | 4.80 | 18.01 | 40.00 | -21.99 | 104 | 41 |
| 148.300 | QP | H | 13.24 | 4.90 | 18.14 | 43.50 | -25.37 | 112 | 74 |
| 222.000 | QP | H | 11.63 | 5.50 | 17.13 | 46.00 | -28.88 | 123 | 214 |
| 427.000 | QP | H | 18.12 | 5.90 | 24.02 | 46.00 | -21.98 | 115 | 168 |
| 625.000 | QP | H | 21.55 | 6.50 | 28.05 | 46.00 | -17.96 | 125 | 57 |
| 842.000 | QP | H | 24.04 | 7.44 | 31.48 | 46.00 | -14.53 | 134 | 322 |

Remark:

1. Corrected Level = Reading Level + Correction Factor
2. Correction Factor = Antenna Factor + Cable Loss

The test was performed on EUT under continuously transmitting mode. Channel 1, 40 were verified. The worst case occurred at Tx channel 1.

EUT : 36271
 Test Unit : Handset
 Worst Case : Tx at channel 1 with setup 1 configuration

| Frequency (MHz) | Spectrum Analyzer Detector | Antenna Polariz. (H/V) | Correction Factor (dB/m) | Reading (dBuV) | Corrected Level (dBuV/m) | Limit @ 3 m (dBuV/m) | Margin (dB) | Antenna high (cm) | Turn Table angle (degree) |
|--------------------|----------------------------------|------------------------------|--------------------------------|-------------------|--------------------------------|----------------------------|----------------|-------------------------|------------------------------------|
| 39.700 | QP | V | 12.62 | 3.00 | 15.62 | 40.00 | -24.38 | 120 | 302 |
| 47.460 | QP | V | 12.84 | 2.70 | 15.54 | 40.00 | -24.46 | 121 | 205 |
| 51.340 | QP | V | 12.90 | 2.70 | 15.60 | 40.00 | -24.41 | 142 | 147 |
| 87.230 | QP | V | 8.50 | 3.00 | 11.50 | 40.00 | -28.51 | 100 | 185 |
| 157.070 | QP | V | 15.83 | 11.50 | 27.33 | 43.50 | -16.17 | 154 | 312 |
| 183.260 | QP | V | 13.10 | 3.70 | 16.80 | 43.50 | -26.71 | 158 | 56 |
| 39.700 | QP | H | 13.21 | 1.90 | 15.11 | 40.00 | -24.89 | 150 | 45 |
| 51.340 | QP | H | 14.11 | 3.40 | 17.51 | 40.00 | -22.50 | 163 | 204 |
| 55.220 | QP | H | 14.11 | 3.00 | 17.11 | 40.00 | -22.90 | 152 | 38 |
| 87.230 | QP | H | 9.45 | 2.60 | 12.05 | 40.00 | -27.96 | 126 | 185 |
| 115.360 | QP | H | 10.54 | 3.80 | 14.34 | 43.50 | -29.17 | 119 | 94 |
| 183.260 | QP | H | 12.08 | 10.80 | 22.88 | 43.50 | -20.62 | 186 | 358 |

Remark:

1. Corrected Level = Reading Level + Correction Factor
2. Correction Factor = Antenna Factor + Cable Loss

3.5 Measurement results: frequency above 1GHz

EUT : 36271
 Test Unit : Base
 Test Condition : Tx at channel 1

| Frequency (MHz) | Spectrum Analyzer Detector | Antenna Polariz. (H/V) | Correction Factor (dB/m) | Reading (dBuV) | Corrected Level (dBuV/m) | Limit @ 3 m (dBuV/m) | Margin (dB) | Antenna high (cm) | Turn Table angle (degree) |
|--------------------|----------------------------------|------------------------------|--------------------------------|-------------------|--------------------------------|----------------------------|----------------|-------------------------|---------------------------------|
| 2403.05 | PK | V | 30.31 | 33.62 | 63.93 | 114.00 | -50.07 | 120 | 320 |
| 2403.05 | AV | V | 30.31 | 30.34 | 60.65 | 94.00 | -33.35 | 120 | 320 |
| 2403.05 | PK | H | 30.31 | 33.50 | 63.81 | 114.00 | -50.19 | 158 | 335 |
| 2403.05 | AV | H | 30.31 | 29.66 | 59.97 | 94.00 | -34.03 | 158 | 335 |

Remark:

1. Corrected Level = Reading Level + Correction Factor
2. Correction Factor = Antenna Factor + Cable Loss
3. No spurious emissions were found above the spectrum analyzer noise floor in the frequency rang 2.5GHz ~ 25GHz.
4. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

Noise floor level is:

For PK:

1GHz-3GHz: 20dBuV
 3GHz-14GHz: 27dBuV
 14GHz-26.5GHz: 39dBuV

For AV:

1GHz-3GHz: 10dBuV
 3GHz-14GHz: 16dBuV
 14GHz-26.5GHz: 28dBuV

EUT : 36271
 Test Unit : Base
 Test Condition : Tx at channel 40

| Frequency (MHz) | Spectrum Analyzer Detector | Antenna Polariz. (H/V) | Correction Factor (dB/m) | Reading (dBuV) | Corrected Level (dBuV/m) | Limit @ 3 m (dBuV/m) | Margin (dB) | Antenna high (cm) | Turn Table angle (degree) |
|--------------------|----------------------------------|------------------------------|--------------------------------|-------------------|--------------------------------|----------------------------|----------------|-------------------------|---------------------------------|
| 2405.00 | PK | V | 30.31 | 33.34 | 63.65 | 114 | -50.35 | 122 | 321 |
| 2405.00 | AV | V | 30.31 | 29.00 | 59.31 | 94 | -34.69 | 122 | 321 |
| 2405.00 | PK | H | 30.31 | 33.40 | 63.71 | 114 | -50.29 | 147 | 330 |
| 2405.00 | AV | H | 30.31 | 29.07 | 59.38 | 94 | -34.62 | 147 | 330 |

Remark:

1. Corrected Level = Reading Level + Correction Factor
2. Correction Factor = Antenna Factor + Cable Loss
3. No spurious emissions were found above the spectrum analyzer noise floor in the frequency rang 2.5GHz ~ 25GHz.
4. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

Noise floor level is:

For PK:

1GHz-3GHz: 20dBuV
 3GHz-14GHz: 27dBuV
 14GHz-26.5GHz: 39dBuV

For AV:

1GHz-3GHz: 10dBuV
 3GHz-14GHz: 16dBuV
 14GHz-26.5GHz: 28dBuV

EUT : 36271
 Test Unit : Handset
 Test Condition : Tx at channel 1

| Frequency (MHz) | Spectrum Analyzer Detector | Antenna Polariz. (H/V) | Correction Factor (dB/m) | Reading (dBuV) | Corrected Level (dBuV/m) | Limit @ 3 m (dBuV/m) | Margin (dB) | Antenna high (cm) | Turn Table angle (degree) |
|--------------------|----------------------------------|------------------------------|--------------------------------|-------------------|--------------------------------|----------------------------|----------------|-------------------------|---------------------------------|
| 2474.00 | PK | V | 30.31 | 51.07 | 81.38 | 114.00 | -32.62 | 145 | 152 |
| 2474.00 | AV | V | 30.31 | 49.52 | 79.83 | 94.00 | -14.17 | 145 | 152 |
| 2474.00 | PK | H | 30.31 | 59.16 | 89.47 | 114.00 | -24.53 | 101 | 315 |
| 2474.00 | AV | H | 30.31 | 58.68 | 88.99 | 94.00 | -5.01 | 101 | 315 |

Remark:

1. Corrected Level = Reading Level + Correction Factor
2. Correction Factor = Antenna Factor + Cable Loss
3. No spurious emissions were found above the spectrum analyzer noise floor in the frequency range 2.5GHz ~ 25GHz.
4. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

Noise floor level is:

For PK:

1GHz-3GHz: 20dBuV
 3GHz-14GHz: 27dBuV
 14GHz-26.5GHz: 39dBuV

For AV:

1GHz-3GHz: 10dBuV
 3GHz-14GHz: 16dBuV
 14GHz-26.5GHz: 28dBuV

EUT : 36271
 Test Unit : Handset
 Test Condition : Tx at channel 40

| Frequency (MHz) | Spectrum Analyzer Detector | Antenna Polariz. (H/V) | Correction Factor (dB/m) | Reading (dBuV) | Corrected Level (dBuV/m) | Limit @ 3 m (dBuV/m) | Margin (dB) | Antenna high (cm) | Turn Table angle (degree) |
|--------------------|----------------------------------|------------------------------|--------------------------------|-------------------|--------------------------------|----------------------------|----------------|-------------------------|---------------------------------|
| 2475.95 | PK | V | 30.31 | 50.71 | 81.02 | 114.00 | -32.98 | 140 | 148 |
| 2475.95 | AV | V | 30.31 | 49.22 | 79.53 | 94.00 | -14.47 | 140 | 148 |
| 2475.95 | PK | H | 30.31 | 58.90 | 89.21 | 114.00 | -24.79 | 100 | 312 |
| 2475.95 | AV | H | 30.31 | 58.66 | 88.97 | 94.00 | -5.03 | 100 | 312 |

Remark:

1. Corrected Level = Reading Level + Correction Factor
2. Correction Factor = Antenna Factor + Cable Loss
3. No spurious emissions were found above the spectrum analyzer noise floor in the frequency rang 2.5GHz ~ 25GHz.
4. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

Noise floor level is:

For PK:

1GHz-3GHz: 20dBuV
 3GHz-14GHz: 27dBuV
 14GHz-26.5GHz: 39dBuV

For AV:

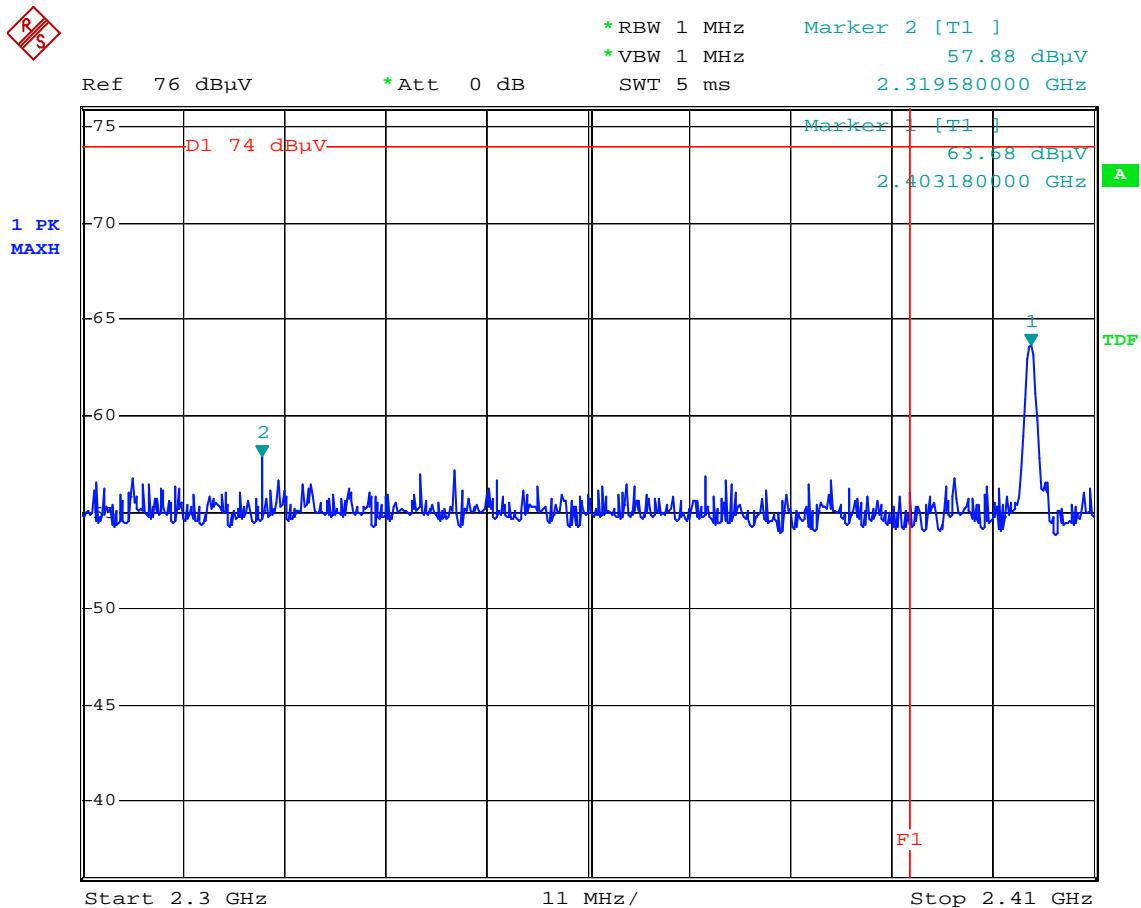
1GHz-3GHz: 10dBuV
 3GHz-14GHz: 16dBuV
 14GHz-26.5GHz: 28dBuV

3.6 Radiated emission on the band edge FCC 15.249(C)

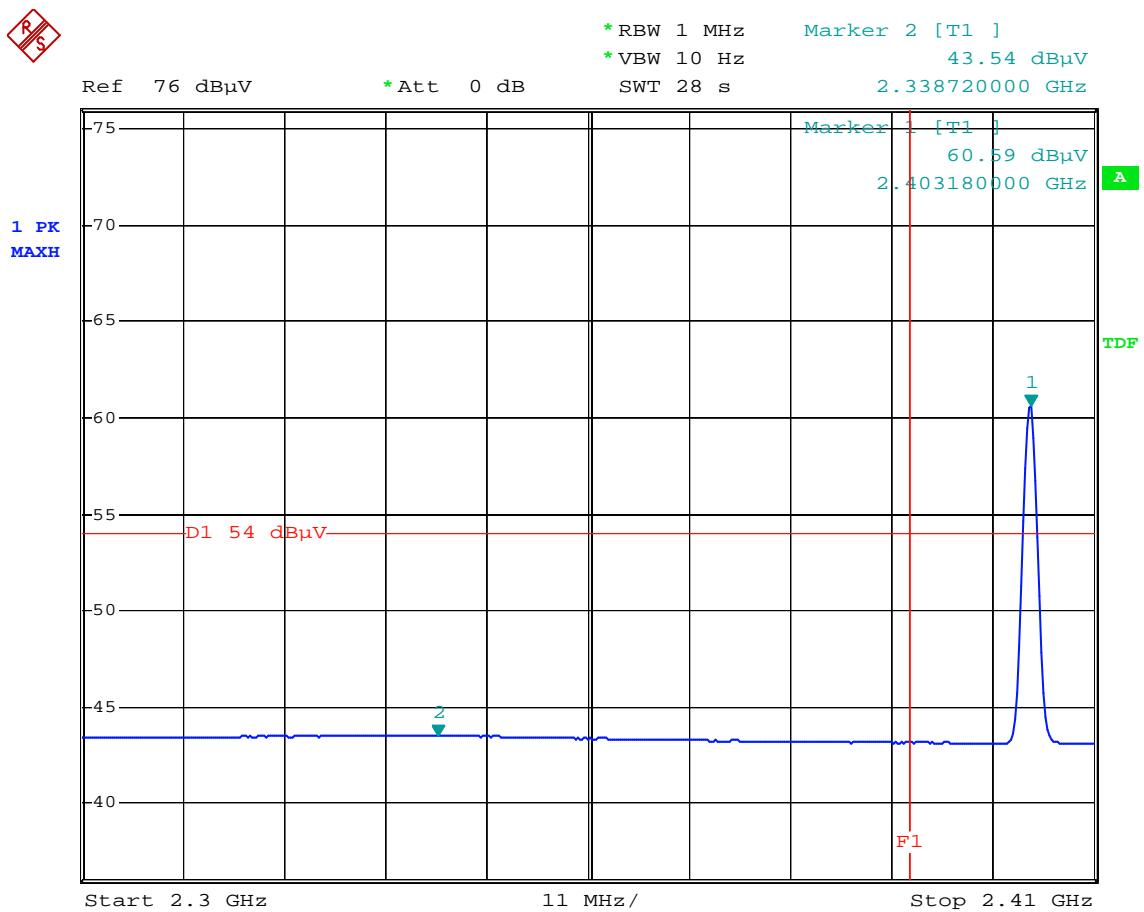
Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental (Base: 2403.05MHz ~ 2405.00MHz, Handset: 2474.00MHz ~ 2475.95MHz) or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Please see the plot below.

Test Mode: Base

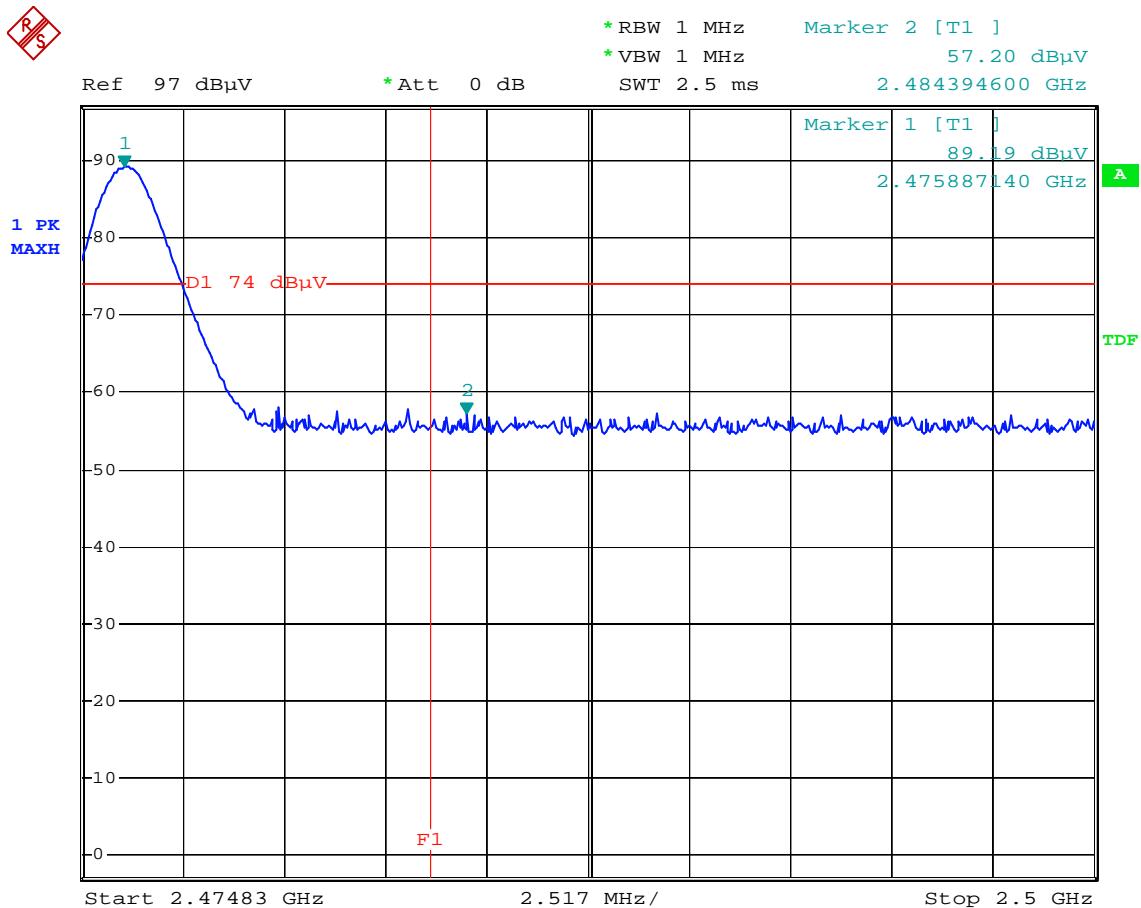


Comment: Band-edge at low ch
 Comment: Base PK F1=2390MHz
 Date: 6.FEB.2006 17:21:48

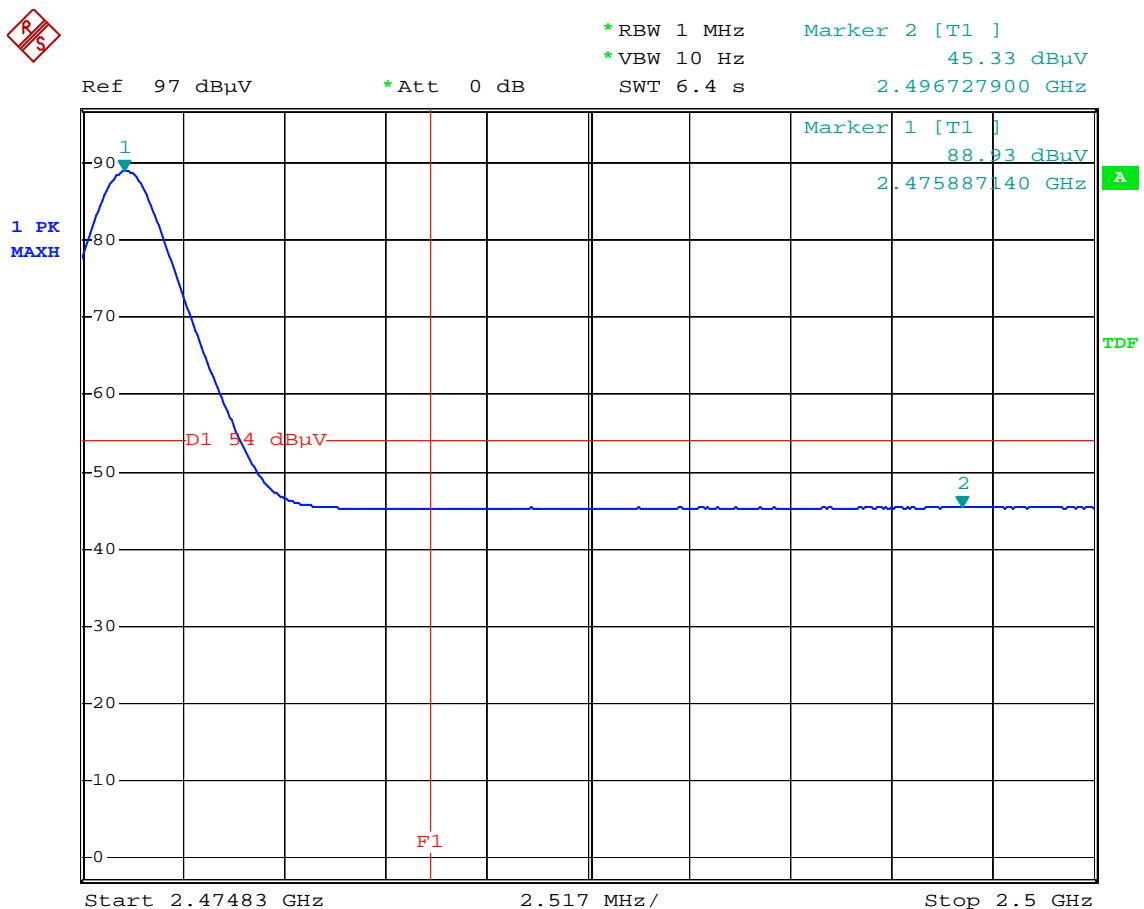


Comment: Band-edge at low ch
 Comment: Base AV F1=2390MHz
 Date: 6.FEB.2006 17:23:09

Test Mode: Handset



Comment: Band-edge at High ch
 Comment: handset PK F1=2483.5MHz
 Date: 6.FEB.2006 16:43:40



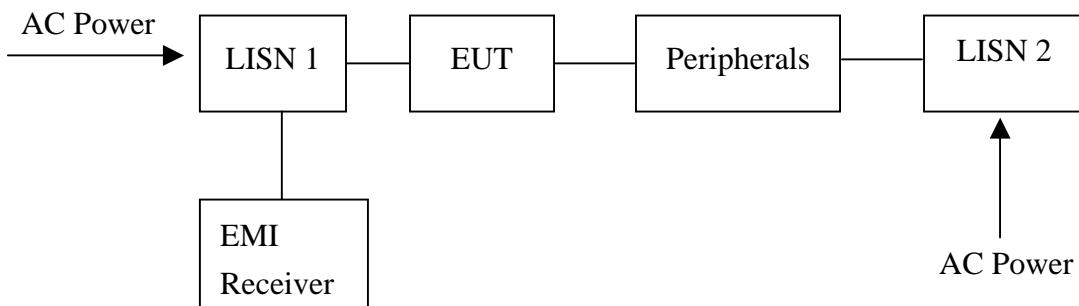
Comment: Band-edge at High ch
 Comment: handset AV F1=2483.5MHz
 Date: 6.FEB.2006 16:44:55

5. Conducted emission test FCC 15.207

5.1 Operating environment

Temperature: 23
Relative Humidity: 53 %
Atmospheric Pressure: 1023 hPa

5.2 Test setup & procedure



The EUT are connected to the main power through a line impedance stabilization network (LISN). This provides a 50 ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

Both sides (Line and Neutral) of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4/2003 on conducted measurement.

The bandwidth of the field strength meter (R & S Test Receiver ESCS 30) is set at 9kHz.

The EUT configuration please refer to the “Conducted set-up photo.pdf”.

5.3 Emission limit

| Freq. (MHz) | Conducted Limit (dBuV) | |
|----------------|------------------------|----------|
| | Q.P. | Ave. |
| 0.15~0.50 | 66 – 56* | 56 – 46* |
| 0.50~5.00 | 56 | 46 |
| 5.00~30.0 | 60 | 50 |

*Decreases with the logarithm of the frequency.

5.4 Uncertainty of Conducted Emission

Expanded uncertainty (k=2) of conducted emission measurement is 2.6 dB.

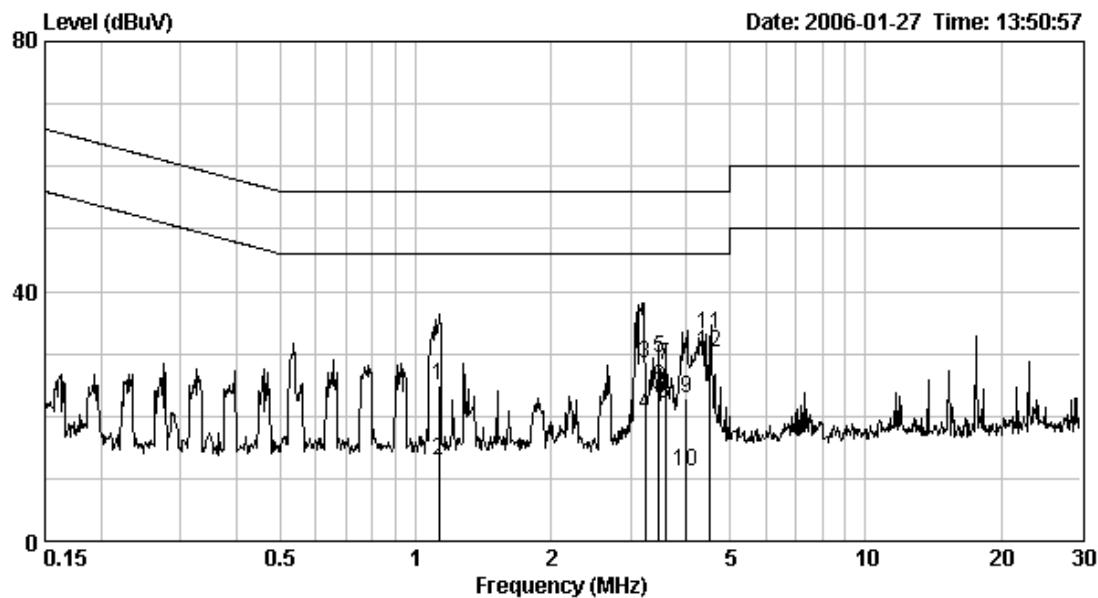
5.5 Power Line Conducted Emission test data

Phase : Line
EUT : 36271
Test Condition : Charging with Ringing mode

| Frequency (MHz) | Corr. Factor (dB) | Level Qp (dBuV) | Limit Qp (dBuV) | Level AV (dBuV) | Limit Av (dBuV) | Margin (dB) | |
|--------------------|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------|--------|
| | | | | | | Qp | Av |
| 1.126 | 0.10 | 24.80 | 56.00 | 12.78 | 46.00 | -31.20 | -33.22 |
| 3.234 | 0.16 | 28.28 | 56.00 | 20.28 | 46.00 | -27.72 | -25.72 |
| 3.466 | 0.17 | 29.26 | 56.00 | 24.51 | 46.00 | -26.74 | -21.49 |
| 3.583 | 0.18 | 28.01 | 56.00 | 22.03 | 46.00 | -27.99 | -23.97 |
| 3.988 | 0.20 | 22.91 | 56.00 | 11.22 | 46.00 | -33.09 | -34.78 |
| 4.506 | 0.22 | 33.20 | 56.00 | 30.18 | 46.00 | -22.80 | -15.82 |

Remark:

1. Correction Factor (dB)= LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Level (dBuV) – Limit (dBuV)



Phase : Neutral
EUT : 36271
Test Condition : Charging with Ringing mode

| Frequency (MHz) | Corr. Factor (dB) | Level Qp (dBuV) | Limit Qp (dBuV) | Level AV (dBuV) | Limit Av (dBuV) | Margin (dB) | |
|--------------------|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------|--------|
| | | | | | | Qp | Av |
| 0.526 | 0.10 | 31.34 | 56.00 | 30.29 | 46.00 | -24.66 | -15.71 |
| 1.416 | 0.10 | 28.50 | 56.00 | 18.50 | 46.00 | -27.50 | -27.50 |
| 2.949 | 0.15 | 30.10 | 56.00 | 22.00 | 46.00 | -25.90 | -24.00 |
| 3.351 | 0.17 | 28.18 | 56.00 | 25.58 | 46.00 | -27.82 | -20.42 |
| 4.209 | 0.20 | 35.20 | 56.00 | 30.20 | 46.00 | -20.80 | -15.80 |
| 4.738 | 0.20 | 31.77 | 56.00 | 26.61 | 46.00 | -24.23 | -19.39 |

Remark:

1. Correction Factor (dB)= LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Level (dBuV) – Limit (dBuV)

