



# EMC TEST REPORT

**Report No.** : EME-030528

**Model No.** : 36270

**Issued Date** : July 28, 2003

**Applicant** : SENTON Enterprises Limited  
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**Test By** : Intertek Testing Services Taiwan Ltd.  
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Project Engineer

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Jerry Liu

Reviewed By

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Elton Chen



## **Table of Contents**

|                                                            |    |
|------------------------------------------------------------|----|
| Summary of Tests .....                                     | 3  |
| 1. General information .....                               | 4  |
| 1.1 Identification of the EUT .....                        | 4  |
| 1.2 Additional information about the EUT .....             | 4  |
| 1.3 Antenna description .....                              | 5  |
| 1.4 Peripherals equipment .....                            | 5  |
| 2. Test specifications .....                               | 6  |
| 2.1 Test standard .....                                    | 6  |
| 2.2 Operation mode .....                                   | 6  |
| 2.4 Test equipment .....                                   | 7  |
| 3. Radiated emission test FCC 15.249 (C) .....             | 8  |
| 3.1 Operating environment .....                            | 8  |
| 3.2 Test setup & procedure .....                           | 8  |
| 3.3 Emission limit .....                                   | 10 |
| 3.3.1 Fundamental and harmonics emission limits .....      | 10 |
| 3.3.2 General radiated emission limits .....               | 10 |
| 3.4 Radiated emission test data FCC 15.249 .....           | 11 |
| 3.4.1 Fundamental & harmonics radiated emission data ..... | 11 |
| 3.4.2 Fundamental & Harmonics Radiated Emission Data ..... | 15 |
| 4. Conducted emission test FCC 15.207 .....                | 23 |
| 4.1 Operating environment .....                            | 23 |
| 4.2 Test setup & procedure .....                           | 23 |
| 4.3 Emission limit .....                                   | 24 |
| 4.4 Conducted emission data FCC 15.207 .....               | 25 |
| 5. Radiated emission on the band edge FCC 15.249(C) .....  | 34 |



**Summary of Tests**

**Cordless Phone -Model: 36270**  
**FCC ID: PEG36270**

| Test                           | Reference         | Results  |
|--------------------------------|-------------------|----------|
| Conducted Emission of AC Power | 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.                           | : 36270                         |
| FCC ID.                             | : PEG36270                      |
| Frequency Range                     | : 2400MHz to 2483.5MHz          |
| Channel Number                      | : 40 channels                   |
| Frequency of Each Channel (Base)    | : 2402.55 + 50k MHz, k=0~39     |
| Frequency of Each Channel (Handset) | : 2474.00 + 50k MHz, k=0~39     |
| Type of Modulation                  | : FM                            |
| Rated Power (Base)                  | : 120Vac, 60Hz                  |
| Rated Power (Handset)               | : 3.6Vdc battery                |
| Power Cord                          | : N/A                           |
| Sample Received                     | : April 24, 2003                |
| Test Date(s)                        | : May 13, 2003 to July 18, 2003 |

#### 1.2 Additional information about the EUT

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

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



### 1.3 Antenna description

The antenna description for handset and base unit are the same and listed as below:

The EUT uses a permanently connected antenna.

Antenna Gain : 0dBi

Antenna Type : Monopole antenna

Connector Type : N/A

### 1.4 Peripherals equipment

| Peripherals    | Manufacturer | Product No.  | Serial No. | FCC ID           |
|----------------|--------------|--------------|------------|------------------|
| Exchange board | Teltone      | 250-00193-07 | 94948      | FCC DoC Approval |
| Telephone      | Tozai        | ATC-814      | 9904000066 | FCC DoC Approval |



## **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**

The EUT were composted of “Base Unit” and “Handset Unit”, only Base Unit need to comply with conducted emission test, and it was tested in normal mode during this test.

During other test:

The Handset and Base unit were transmitted continuously and test individually.



## 2.4 Test equipment

| Equipment           | Brand           | Frequency range | Model No. | Series No. | Last Cal.Date |
|---------------------|-----------------|-----------------|-----------|------------|---------------|
| EMI Test Receiver   | Rohde & Schwarz | 9kHz~2.75GHz    | ESCS 30   | 825788/014 | Feb. 18, 2003 |
| Spectrum Analyzer   | Rohde & Schwarz | 9kHz~30GHz      | FSP 30    | 100137     | July 10, 2003 |
| Spectrum Analyzer   | Rohde & Schwarz | 20Hz~40GHz      | FSEK 30   | 100186     | Oct. 9, 2002  |
| Horn Antenna        | EMCO            | 1GHz~18GHz      | 3115      | 9906-5890  | Sep. 19, 2002 |
| Horn Antenna        | SCHWARZBECK     | 14GHz~40GHz     | BBHA 9170 | 159        | June 20, 2003 |
| Bilog Antenna       | SCHWARZBECK     | 25MHz~1.7GHz    | VULB 9160 | 3133       | Feb. 21, 2003 |
| Turn Table          | HDGmbH          | N/A             | DS 420S   | 420/669/01 | N/A           |
| Antenna Tower       | HDGmbH          | N/A             | MA 240    | 240/573    | N/A           |
| Microwave Amplifier | Agilent         | 2GHz~26.5GHz    | 8348A     | 3111A00567 | Dec. 20, 2002 |

**Note:**

1. The calibration interval of the above instruments is 12 months.



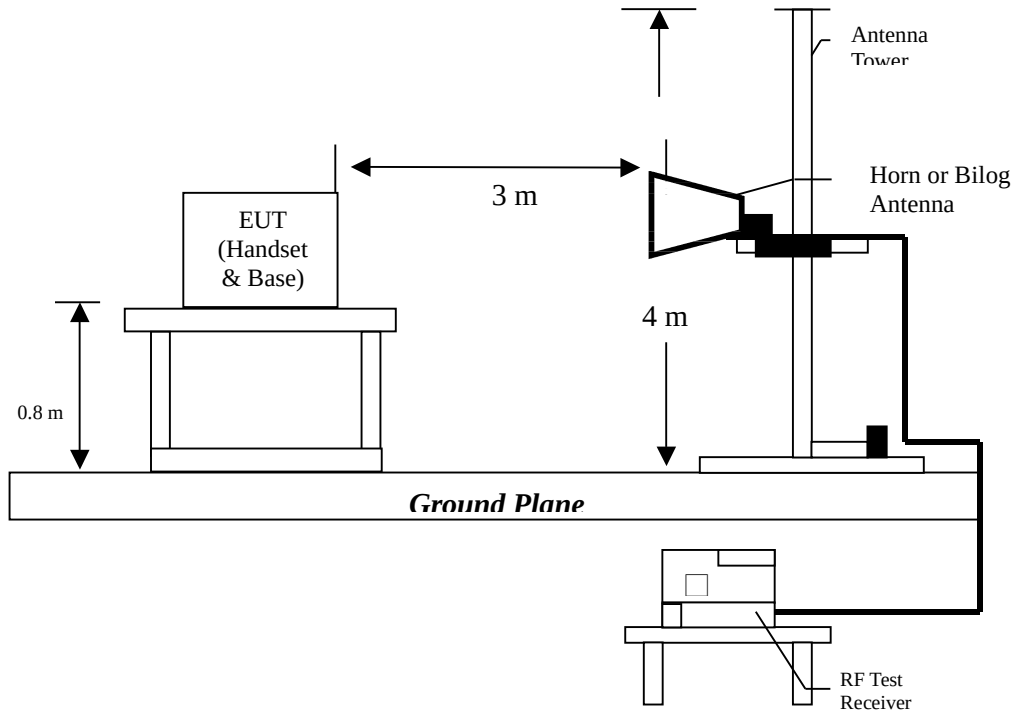
### 3. Radiated emission test FCC 15.249 (C)

#### 3.1 Operating environment

|                      |      |     |               |
|----------------------|------|-----|---------------|
| Temperature:         | 25   | °C  | (10-40°C)     |
| Relative Humidity:   | 55   | %   | (10-90%)      |
| Atmospheric Pressure | 1023 | hPa | (860-1060hPa) |

#### 3.2 Test setup & procedure

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



Radiated emissions were investigated cover 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.

The signal is maximized through rotation and placement in the three orthogonal axes.



**Perpendicular (x, y)  
Setup 2**



**Plane (x, z)  
Setup 1**



**Transverse (y, z)  
Setup 3**

The worst Radiated Spurious test was found in Setup 1.

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<br>MHz | 15.209 Limits<br>(dB $\mu$ 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  $\pm 4.98$  dB.

Expanded uncertainty (k=2) of conducted emission measurement is  $\pm 2.02$  dB.



### 3.4 Radiated emission test data FCC 15.249

#### 3.4.1 Fundamental & harmonics radiated emission data

The radiated emissions at

| Frequency(MHz) | Margin |
|----------------|--------|
| 825.4000       | -1.24  |

are less than uncertainty. This is within the stated measurement uncertainty, this may affect compliance determined in other test arrangements.

EUT : 36270

Test Condition : Handset, Tx at low channel

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) |
|--------------------|----------------------------------|------------------------------|--------------------------------|-------------------|------------------------------|--------------------------|----------------|
| 796.3000           | QP                               | V                            | 24.18                          | 5.50              | 29.68                        | 46.00                    | -16.32         |
| 825.4000           | QP                               | V                            | 24.26                          | 12.50             | 36.76                        | 46.00                    | -9.24          |
| *                  | QP                               | V                            | *                              | *                 | *                            | *                        | *              |
| *                  | QP                               | V                            | *                              | *                 | *                            | *                        | *              |
| *                  | QP                               | V                            | *                              | *                 | *                            | *                        | *              |
| *                  | QP                               | V                            | *                              | *                 | *                            | *                        | *              |
| 796.3000           | QP                               | H                            | 24.18                          | 10.90             | 35.08                        | 46.00                    | -10.92         |
| 825.4000           | QP                               | H                            | 24.26                          | 20.50             | 44.76                        | 46.00                    | -1.24          |
| *                  | QP                               | H                            | *                              | *                 | *                            | *                        | *              |
| *                  | QP                               | H                            | *                              | *                 | *                            | *                        | *              |
| *                  | QP                               | H                            | *                              | *                 | *                            | *                        | *              |
| *                  | QP                               | H                            | *                              | *                 | *                            | *                        | *              |

Remark:

1.Corrected Level = Reading Level + Correction Factor

2.Correction Factor = Antenna Factor + Cable Loss



**The radiated emissions at**

| Frequency(MHz) | Margin |
|----------------|--------|
| 825.4000       | -1.24  |

**are less than uncertainty. This is within the stated measurement uncertainty, this may affect compliance determined in other test arrangements.**

EUT : 36270

Test Condition : Handset, Tx at high channel

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) |
|--------------------|----------------------------------|------------------------------|--------------------------------|-------------------|------------------------------|--------------------------|----------------|
| 798.2000           | QP                               | V                            | 24.24                          | 4.40              | 28.64                        | 46.00                    | -17.36         |
| 825.4000           | QP                               | V                            | 24.26                          | 12.30             | 36.56                        | 46.00                    | -9.44          |
| *                  | QP                               | V                            | *                              | *                 | *                            | *                        | *              |
| *                  | QP                               | V                            | *                              | *                 | *                            | *                        | *              |
| *                  | QP                               | V                            | *                              | *                 | *                            | *                        | *              |
| *                  | QP                               | V                            | *                              | *                 | *                            | *                        | *              |
| 798.2000           | QP                               | H                            | 24.24                          | 10.60             | 34.84                        | 46.00                    | -11.16         |
| 825.4000           | QP                               | H                            | 24.26                          | 20.50             | 44.76                        | 46.00                    | -1.24          |
| *                  | QP                               | H                            | *                              | *                 | *                            | *                        | *              |
| *                  | QP                               | H                            | *                              | *                 | *                            | *                        | *              |
| *                  | QP                               | H                            | *                              | *                 | *                            | *                        | *              |
| *                  | QP                               | H                            | *                              | *                 | *                            | *                        | *              |

**Remark:**

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



EUT : 36270

Test Condition : Base unit, Tx at low channel

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) |
|--------------------|----------------------------------|------------------------------|--------------------------------|-------------------|------------------------------|--------------------------|----------------|
| 64.9000            | QP                               | V                            | 12.94                          | 1.40              | 14.34                        | 40.00                    | -25.66         |
| 107.6000           | QP                               | V                            | 11.59                          | 6.20              | 17.79                        | 43.50                    | -25.71         |
| 130.9000           | QP                               | V                            | 13.42                          | 0.20              | 13.62                        | 43.50                    | -29.88         |
| 800.2000           | QP                               | V                            | 24.29                          | 6.40              | 30.69                        | 46.00                    | -15.31         |
| 827.3000           | QP                               | V                            | 24.27                          | 10.00             | 34.27                        | 46.00                    | -11.73         |
| 903.0000           | QP                               | V                            | 25.11                          | 12.00             | 37.11                        | 46.00                    | -8.89          |
| 80.4000            | QP                               | H                            | 9.49                           | 0.50              | 9.99                         | 40.00                    | -30.01         |
| 152.2000           | QP                               | H                            | 14.80                          | 1.10              | 15.90                        | 43.50                    | -27.60         |
| 163.9000           | QP                               | H                            | 14.67                          | 6.80              | 21.47                        | 43.50                    | -22.03         |
| 800.2000           | QP                               | H                            | 24.29                          | 7.20              | 31.49                        | 46.00                    | -14.51         |
| 827.3000           | QP                               | H                            | 24.27                          | 14.50             | 38.77                        | 46.00                    | -7.23          |
| 937.9000           | QP                               | H                            | 25.42                          | 5.00              | 30.42                        | 46.00                    | -15.58         |

Remark:

1. Corrected Level = Reading Level + Correction Factor

2. Correction Factor = Antenna Factor + Cable Loss



**The radiated emissions at**

| Frequency(MHz) | Margin |
|----------------|--------|
| 825.4000       | -1.24  |

**are less than uncertainty. This is within the stated measurement uncertainty, this may affect compliance determined in other test arrangements.**

EUT : 36270

Test Condition : Base unit, Tx at high channel

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) |
|--------------------|----------------------------------|------------------------------|--------------------------------|-------------------|------------------------------|--------------------------|----------------|
| 41.6000            | QP                               | V                            | 13.01                          | 12.70             | 25.71                        | 40.00                    | -14.29         |
| 64.9000            | QP                               | V                            | 12.94                          | 0.80              | 13.74                        | 40.00                    | -26.26         |
| 107.6000           | QP                               | V                            | 11.59                          | 6.00              | 17.59                        | 43.50                    | -25.91         |
| 130.9000           | QP                               | V                            | 13.42                          | 1.10              | 14.52                        | 43.50                    | -28.98         |
| 802.1000           | QP                               | V                            | 24.27                          | 7.00              | 31.27                        | 46.00                    | -14.73         |
| 829.3000           | QP                               | V                            | 24.28                          | 11.90             | 36.18                        | 46.00                    | -9.82          |
| 80.4000            | QP                               | H                            | 9.49                           | 0.30              | 9.79                         | 40.00                    | -30.21         |
| 173.6000           | QP                               | H                            | 14.02                          | 6.40              | 20.42                        | 43.50                    | -23.08         |
| 802.1000           | QP                               | H                            | 24.27                          | 8.90              | 33.17                        | 46.00                    | -12.83         |
| 829.3000           | QP                               | H                            | 24.28                          | 15.80             | 40.08                        | 46.00                    | -5.92          |
| 862.3000           | QP                               | H                            | 24.37                          | 3.50              | 27.87                        | 46.00                    | -18.13         |
| 988.4000           | QP                               | H                            | 25.90                          | 3.80              | 29.70                        | 54.00                    | -24.30         |

**Remark:**

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



### 3.4.2 Fundamental & Harmonics Radiated Emission Data

EUT : 36270  
 Test Condition : Handset, Tx at low channel  
 Configuration : Setup 1

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Preamplifier<br>(dB) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) |
|--------------------|----------------------------------|------------------------------|----------------------|--------------------------------|-------------------|------------------------------|--------------------------|----------------|
| 2474               | PK                               | V                            | 33.368               | 29.53                          | 81.718            | 77.88                        | 114                      | -36.12         |
| 2474               | AV                               | V                            | 33.368               | 29.53                          | 81.128            | 77.29                        | 94                       | -16.71         |
| 4948               | PK                               | V                            | 32.496               | 35.47                          | -                 | -                            | 74                       | -              |
| 4948               | AV                               | V                            | 32.496               | 35.47                          | -                 | -                            | 54                       | -              |
| 7422               | PK                               | V                            | 34.47                | 38.38                          | -                 | -                            | 74                       | -              |
| 7422               | AV                               | V                            | 34.47                | 38.38                          | -                 | -                            | 54                       | -              |
| 9896               | PK                               | V                            | 35.919               | 41.55                          | -                 | -                            | 74                       | -              |
| 9896               | AV                               | V                            | 35.919               | 41.55                          | -                 | -                            | 54                       | -              |
| 12370              | PK                               | V                            | 35.315               | 43.75                          | -                 | -                            | 74                       | -              |
| 12370              | AV                               | V                            | 35.315               | 43.75                          | -                 | -                            | 54                       | -              |
| 14844              | PK                               | V                            | 34.958               | 45.13                          | -                 | -                            | 74                       | -              |
| 14844              | AV                               | V                            | 34.958               | 45.13                          | -                 | -                            | 54                       | -              |
| 17318              | PK                               | V                            | 35.234               | 44.75                          | -                 | -                            | 74                       | -              |
| 17318              | AV                               | V                            | 35.234               | 44.75                          | -                 | -                            | 54                       | -              |
| 19792              | PK                               | V                            | 34.314               | 50.29                          | -                 | -                            | 74                       | -              |
| 19792              | AV                               | V                            | 34.314               | 50.29                          | -                 | -                            | 54                       | -              |
| 22266              | PK                               | V                            | 34.782               | 51.64                          | -                 | -                            | 74                       | -              |
| 22262              | AV                               | V                            | 34.782               | 51.64                          | -                 | -                            | 54                       | -              |
| 24740              | PK                               | V                            | 35.868               | 53.15                          | -                 | -                            | 74                       | -              |
| 24740              | AV                               | V                            | 35.868               | 53.15                          | -                 | -                            | 54                       | -              |

#### Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. “-“ means the emission is below the noise floor, and the noise floor listed below:

For PK:

1GHz-10GHz: 50dBuV

10GHz-26.5GHz: 60dBuV

For AV:

1GHz-10GHz: 40dBuV

10GHz-26.5GHz: 45dBuV



# Intertek Testing Services

ETL SEMKO

FCC ID. : PEG36270

Report No.: EME-030528

Page 16 of 42

EUT : 36270  
 Test Condition : Handset, Tx at low channel  
 Configuration : Setup 1

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Preamplifier<br>(dB) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) |
|--------------------|----------------------------------|------------------------------|----------------------|--------------------------------|-------------------|------------------------------|--------------------------|----------------|
| 2474               | PK                               | H                            | 33.368               | 29.53                          | 79.958            | 76.12                        | 114                      | -37.88         |
| 2474               | AV                               | H                            | 33.368               | 29.53                          | 78.908            | 75.07                        | 94                       | -18.93         |
| 4948               | PK                               | H                            | 32.496               | 35.47                          | -                 | -                            | 74                       | -              |
| 4948               | AV                               | H                            | 32.496               | 35.47                          | -                 | -                            | 54                       | -              |
| 7422               | PK                               | H                            | 34.47                | 38.38                          | -                 | -                            | 74                       | -              |
| 7422               | AV                               | H                            | 34.47                | 38.38                          | -                 | -                            | 54                       | -              |
| 9896               | PK                               | H                            | 35.919               | 41.55                          | -                 | -                            | 74                       | -              |
| 9896               | AV                               | H                            | 35.919               | 41.55                          | -                 | -                            | 54                       | -              |
| 12370              | PK                               | H                            | 35.315               | 43.75                          | -                 | -                            | 74                       | -              |
| 12370              | AV                               | H                            | 35.315               | 43.75                          | -                 | -                            | 54                       | -              |
| 14844              | PK                               | H                            | 34.958               | 45.13                          | -                 | -                            | 74                       | -              |
| 14844              | AV                               | H                            | 34.958               | 45.13                          | -                 | -                            | 54                       | -              |
| 17318              | PK                               | H                            | 35.234               | 44.75                          | -                 | -                            | 74                       | -              |
| 17318              | AV                               | H                            | 35.234               | 44.75                          | -                 | -                            | 54                       | -              |
| 19792              | PK                               | H                            | 34.314               | 50.29                          | -                 | -                            | 74                       | -              |
| 19792              | AV                               | H                            | 34.314               | 50.29                          | -                 | -                            | 54                       | -              |
| 22266              | PK                               | H                            | 34.782               | 51.64                          | -                 | -                            | 74                       | -              |
| 22262              | AV                               | H                            | 34.782               | 51.64                          | -                 | -                            | 54                       | -              |
| 24740              | PK                               | H                            | 35.868               | 53.15                          | -                 | -                            | 74                       | -              |
| 24740              | AV                               | H                            | 35.868               | 53.15                          | -                 | -                            | 54                       | -              |

## Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. “-“ means the emission is below the noise floor, and the noise floor listed below:

For PK:

1GHz-10GHz: 50dBuV

10GHz-26.5GHz: 60dBuV

For AV:

1GHz-10GHz: 40dBuV

10GHz-26.5GHz: 45dBuV





# Intertek Testing Services

ETL SEMKO

FCC ID. : PEG36270

Report No.: EME-030528

Page 17 of 42

EUT : 36270  
Test Condition : Handset, Tx at high channel  
Configuration : Setup 1

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Preamplifier<br>(dB) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) |
|--------------------|----------------------------------|------------------------------|----------------------|--------------------------------|-------------------|------------------------------|--------------------------|----------------|
| 2475.95            | PK                               | V                            | 33.368               | 29.53                          | 80.748            | 76.91                        | 114                      | -37.09         |
| 2475.95            | AV                               | V                            | 33.368               | 29.53                          | 79.998            | 76.16                        | 94                       | -17.84         |
| 4951.9             | PK                               | V                            | 32.496               | 35.47                          | -                 | -                            | 74                       | -              |
| 4951.9             | AV                               | V                            | 32.496               | 35.47                          | -                 | -                            | 54                       | -              |
| 7427.85            | PK                               | V                            | 34.47                | 38.38                          | -                 | -                            | 74                       | -              |
| 7427.85            | AV                               | V                            | 34.47                | 38.38                          | -                 | -                            | 54                       | -              |
| 9903.8             | PK                               | V                            | 35.919               | 41.55                          | -                 | -                            | 74                       | -              |
| 9903.8             | AV                               | V                            | 35.919               | 41.55                          | -                 | -                            | 54                       | -              |
| 12379.75           | PK                               | V                            | 35.315               | 43.75                          | -                 | -                            | 74                       | -              |
| 12379.75           | AV                               | V                            | 35.315               | 43.75                          | -                 | -                            | 54                       | -              |
| 14855.7            | PK                               | V                            | 34.958               | 45.13                          | -                 | -                            | 74                       | -              |
| 14855.7            | AV                               | V                            | 34.958               | 45.13                          | -                 | -                            | 54                       | -              |
| 17331.65           | PK                               | V                            | 35.234               | 44.75                          | -                 | -                            | 74                       | -              |
| 17311.65           | AV                               | V                            | 35.234               | 44.75                          | -                 | -                            | 54                       | -              |
| 19807.6            | PK                               | V                            | 34.227               | 50.34                          | -                 | -                            | 74                       | -              |
| 19807.6            | AV                               | V                            | 34.227               | 50.34                          | -                 | -                            | 54                       | -              |
| 22283.55           | PK                               | V                            | 34.782               | 51.64                          | -                 | -                            | 74                       | -              |
| 22283.55           | AV                               | V                            | 34.782               | 51.64                          | -                 | -                            | 54                       | -              |
| 24759.5            | PK                               | V                            | 35.868               | 53.15                          | -                 | -                            | 74                       | -              |
| 24759.5            | AV                               | V                            | 35.868               | 53.15                          | -                 | -                            | 54                       | -              |

## Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. “-” means the emission is below the noise floor, and the noise floor listed below:

For PK:

1GHz-10GHz: 50dBuV

10GHz-26.5GHz: 60dBuV

For AV:

1GHz-10GHz: 40dBuV

10GHz-26.5GHz: 45dBuV



# Intertek Testing Services

ETL SEMKO

FCC ID. : PEG36270

Report No.: EME-030528

Page 18 of 42

EUT : 36270  
Test Condition : Handset, Tx at high channel  
Configuration : Setup 1

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Preamplifier<br>(dB) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) |
|--------------------|----------------------------------|------------------------------|----------------------|--------------------------------|-------------------|------------------------------|--------------------------|----------------|
| 2475.95            | PK                               | H                            | 33.368               | 29.53                          | 79.718            | 75.88                        | 114                      | -38.12         |
| 2475.95            | AV                               | H                            | 33.368               | 29.53                          | 78.898            | 75.06                        | 94                       | -18.94         |
| 4951.9             | PK                               | H                            | 32.496               | 35.47                          | -                 | -                            | 74                       | -              |
| 4951.9             | AV                               | H                            | 32.496               | 35.47                          | -                 | -                            | 54                       | -              |
| 7427.85            | PK                               | H                            | 34.47                | 38.38                          | -                 | -                            | 74                       | -              |
| 7427.85            | AV                               | H                            | 34.47                | 38.38                          | -                 | -                            | 54                       | -              |
| 9903.8             | PK                               | H                            | 35.919               | 41.55                          | -                 | -                            | 74                       | -              |
| 9903.8             | AV                               | H                            | 35.919               | 41.55                          | -                 | -                            | 54                       | -              |
| 12379.75           | PK                               | H                            | 35.315               | 43.75                          | -                 | -                            | 74                       | -              |
| 12379.75           | AV                               | H                            | 35.315               | 43.75                          | -                 | -                            | 54                       | -              |
| 14855.7            | PK                               | H                            | 34.958               | 45.13                          | -                 | -                            | 74                       | -              |
| 14855.7            | AV                               | H                            | 34.958               | 45.13                          | -                 | -                            | 54                       | -              |
| 17331.65           | PK                               | H                            | 35.234               | 44.75                          | -                 | -                            | 74                       | -              |
| 17311.65           | AV                               | H                            | 35.234               | 44.75                          | -                 | -                            | 54                       | -              |
| 19807.6            | PK                               | H                            | 34.227               | 50.34                          | -                 | -                            | 74                       | -              |
| 19807.6            | AV                               | H                            | 34.227               | 50.34                          | -                 | -                            | 54                       | -              |
| 22283.55           | PK                               | H                            | 34.782               | 51.64                          | -                 | -                            | 74                       | -              |
| 22283.55           | AV                               | H                            | 34.782               | 51.64                          | -                 | -                            | 54                       | -              |
| 24759.5            | PK                               | H                            | 35.868               | 53.15                          | -                 | -                            | 74                       | -              |
| 24759.5            | AV                               | H                            | 35.868               | 53.15                          | -                 | -                            | 54                       | -              |

## Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. “-“ means the emission is below the noise floor, and the noise floor listed below:

For PK:

1GHz-10GHz: 50dBuV

10GHz-26.5GHz: 60dBuV

For AV:

1GHz-10GHz: 40dBuV

10GHz-26.5GHz: 45dBuV



# Intertek Testing Services

ETL SEMKO

FCC ID. : PEG36270

Report No.: EME-030528

Page 19 of 42

EUT : 36270

Test Condition : Base unit, Tx at low channel

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Preamp<br>(dB) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) |
|--------------------|----------------------------------|------------------------------|----------------|--------------------------------|-------------------|------------------------------|--------------------------|----------------|
| 2402.55            | PK                               | V                            | 33.368         | 29.53                          | 74.898            | 71.06                        | 114                      | -42.94         |
| 2402.55            | AV                               | V                            | 33.368         | 29.53                          | 72.768            | 68.93                        | 94                       | -25.07         |
| 4805.1             | PK                               | V                            | 32.496         | 35.47                          | -                 | -                            | 74                       | -              |
| 4805.1             | AV                               | V                            | 32.496         | 35.47                          | -                 | -                            | 54                       | -              |
| 7207.65            | PK                               | V                            | 34.32          | 38.42                          | -                 | -                            | 74                       | -              |
| 7207.65            | AV                               | V                            | 34.32          | 38.42                          | -                 | -                            | 54                       | -              |
| 9610.2             | PK                               | V                            | 35.808         | 41.35                          | -                 | -                            | 74                       | -              |
| 9610.2             | AV                               | V                            | 35.808         | 41.35                          | -                 | -                            | 54                       | -              |
| 12012.8            | PK                               | V                            | 35.4           | 43.38                          | -                 | -                            | 74                       | -              |
| 12012.8            | AV                               | V                            | 35.4           | 43.38                          | -                 | -                            | 54                       | -              |
| 14415.3            | PK                               | V                            | 34.754         | 44.99                          | -                 | -                            | 74                       | -              |
| 14415.3            | AV                               | V                            | 34.754         | 44.99                          | -                 | -                            | 54                       | -              |
| 16817.9            | PK                               | V                            | 35.346         | 42.8                           | -                 | -                            | 74                       | -              |
| 16817.9            | AV                               | V                            | 35.346         | 42.8                           | -                 | -                            | 54                       | -              |
| 19220.4            | PK                               | V                            | 34.488         | 49.78                          | -                 | -                            | 74                       | -              |
| 19220.4            | AV                               | V                            | 34.488         | 49.78                          | -                 | -                            | 54                       | -              |
| 21623              | PK                               | V                            | 34.588         | 51.04                          | -                 | -                            | 74                       | -              |
| 21623              | AV                               | V                            | 34.588         | 51.04                          | -                 | -                            | 54                       | -              |
| 24025.5            | PK                               | V                            | 35.52          | 54.51                          | -                 | -                            | 74                       | -              |
| 24025.5            | AV                               | V                            | 35.52          | 54.51                          | -                 | -                            | 54                       | -              |

Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp

2. Correction Factor = Antenna Factor + Cable Loss

3. “-” means the emission is below the noise floor, and the noise floor listed below:

For PK:

1GHz-10GHz: 50dBuV

10GHz-26.5GHz: 60dBuV

For AV:

1GHz-10GHz: 40dBuV

10GHz-26.5GHz: 45dBuV



# Intertek Testing Services

ETL SEMKO

FCC ID. : PEG36270

Report No.: EME-030528

Page 20 of 42

EUT : 36270

Test Condition : Base unit, Tx at low channel

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Preamp<br>(dB) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) |
|--------------------|----------------------------------|------------------------------|----------------|--------------------------------|-------------------|------------------------------|--------------------------|----------------|
| 2402.55            | PK                               | H                            | 33.368         | 29.53                          | 78.558            | 74.72                        | 114                      | -39.28         |
| 2402.55            | AV                               | H                            | 33.368         | 29.53                          | 77.098            | 73.26                        | 94                       | -20.74         |
| 4805.1             | PK                               | H                            | 32.496         | 35.47                          | -                 | -                            | 74                       | -              |
| 4805.1             | AV                               | H                            | 32.496         | 35.47                          | -                 | -                            | 54                       | -              |
| 7207.65            | PK                               | H                            | 34.32          | 38.42                          | -                 | -                            | 74                       | -              |
| 7207.65            | AV                               | H                            | 34.32          | 38.42                          | -                 | -                            | 54                       | -              |
| 9610.2             | PK                               | H                            | 35.808         | 41.35                          | -                 | -                            | 74                       | -              |
| 9610.2             | AV                               | H                            | 35.808         | 41.35                          | -                 | -                            | 54                       | -              |
| 12012.8            | PK                               | H                            | 35.4           | 43.38                          | -                 | -                            | 74                       | -              |
| 12012.8            | AV                               | H                            | 35.4           | 43.38                          | -                 | -                            | 54                       | -              |
| 14415.3            | PK                               | H                            | 34.754         | 44.99                          | -                 | -                            | 74                       | -              |
| 14415.3            | AV                               | H                            | 34.754         | 44.99                          | -                 | -                            | 54                       | -              |
| 16817.9            | PK                               | H                            | 35.346         | 42.8                           | -                 | -                            | 74                       | -              |
| 16817.9            | AV                               | H                            | 35.346         | 42.8                           | -                 | -                            | 54                       | -              |
| 19220.4            | PK                               | H                            | 34.488         | 49.78                          | -                 | -                            | 74                       | -              |
| 19220.4            | AV                               | H                            | 34.488         | 49.78                          | -                 | -                            | 54                       | -              |
| 21623              | PK                               | H                            | 34.588         | 51.04                          | -                 | -                            | 74                       | -              |
| 21623              | AV                               | H                            | 34.588         | 51.04                          | -                 | -                            | 54                       | -              |
| 24025.5            | PK                               | H                            | 35.52          | 54.51                          | -                 | -                            | 74                       | -              |
| 24025.5            | AV                               | H                            | 35.52          | 54.51                          | -                 | -                            | 54                       | -              |

Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp

2. Correction Factor = Antenna Factor + Cable Loss

3. “-” means the emission is below the noise floor, and the noise floor listed below:

For PK:

1GHz-10GHz: 50dBuV

10GHz-26.5GHz: 60dBuV

For AV:

1GHz-10GHz: 40dBuV

10GHz-26.5GHz: 45dBuV



# Intertek Testing Services

ETL SEMKO

FCC ID. : PEG36270

Report No.: EME-030528

Page 21 of 42

EUT : 36270

Test Condition : Base unit, Tx at high channel

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Preamp<br>(dB) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) |
|--------------------|----------------------------------|------------------------------|----------------|--------------------------------|-------------------|------------------------------|--------------------------|----------------|
| 2404.5             | PK                               | V                            | 33.368         | 29.53                          | 74.898            | 71.06                        | 114                      | -42.94         |
| 2404.5             | AV                               | V                            | 33.368         | 29.53                          | 71.748            | 67.91                        | 94                       | -26.09         |
| 4809               | PK                               | V                            | 32.496         | 35.47                          | -                 | -                            | 74                       | -              |
| 4809               | AV                               | V                            | 32.496         | 35.47                          | -                 | -                            | 54                       | -              |
| 7213.5             | PK                               | V                            | 34.32          | 38.42                          | -                 | -                            | 74                       | -              |
| 7213.5             | AV                               | V                            | 34.32          | 38.42                          | -                 | -                            | 54                       | -              |
| 9618               | PK                               | V                            | 35.808         | 41.35                          | -                 | -                            | 74                       | -              |
| 9618               | AV                               | V                            | 35.808         | 41.35                          | -                 | -                            | 54                       | -              |
| 12022.5            | PK                               | V                            | 35.4           | 43.38                          | -                 | -                            | 74                       | -              |
| 12022.5            | AV                               | V                            | 35.4           | 43.38                          | -                 | -                            | 54                       | -              |
| 14427              | PK                               | V                            | 34.754         | 44.99                          | -                 | -                            | 74                       | -              |
| 14427              | AV                               | V                            | 34.754         | 44.99                          | -                 | -                            | 54                       | -              |
| 16831.5            | PK                               | V                            | 35.346         | 42.8                           | -                 | -                            | 74                       | -              |
| 16831.5            | AV                               | V                            | 35.346         | 42.8                           | -                 | -                            | 54                       | -              |
| 19236              | PK                               | V                            | 34.488         | 49.78                          | -                 | -                            | 74                       | -              |
| 19236              | AV                               | V                            | 34.488         | 49.78                          | -                 | -                            | 54                       | -              |
| 21640.5            | PK                               | V                            | 34.588         | 51.04                          | -                 | -                            | 74                       | -              |
| 21640.5            | AV                               | V                            | 34.588         | 51.04                          | -                 | -                            | 54                       | -              |
| 24045              | PK                               | V                            | 35.52          | 54.51                          | -                 | -                            | 74                       | -              |
| 24045              | AV                               | V                            | 35.52          | 54.51                          | -                 | -                            | 54                       | -              |

Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp

2. Correction Factor = Antenna Factor + Cable Loss

3. “-“ means the emission is below the noise floor, and the noise floor listed below:

For PK:

1GHz-10GHz: 50dBuV

10GHz-26.5GHz: 60dBuV

For AV:

1GHz-10GHz: 40dBuV

10GHz-26.5GHz: 45dBuV



EUT : 36270

Test Condition : Base unit, Tx at high channel

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Preamp<br>(dB) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) |
|--------------------|----------------------------------|------------------------------|----------------|--------------------------------|-------------------|------------------------------|--------------------------|----------------|
| 2404.5             | PK                               | H                            | 33.368         | 29.53                          | 77.598            | 73.76                        | 114                      | -40.24         |
| 2404.5             | AV                               | H                            | 33.368         | 29.53                          | 76.218            | 72.38                        | 94                       | -21.62         |
| 4809               | PK                               | H                            | 32.496         | 35.47                          | -                 | -                            | 74                       | -              |
| 4809               | AV                               | H                            | 32.496         | 35.47                          | -                 | -                            | 54                       | -              |
| 7213.5             | PK                               | H                            | 34.32          | 38.42                          | -                 | -                            | 74                       | -              |
| 7213.5             | AV                               | H                            | 34.32          | 38.42                          | -                 | -                            | 54                       | -              |
| 9618               | PK                               | H                            | 35.808         | 41.35                          | -                 | -                            | 74                       | -              |
| 9618               | AV                               | H                            | 35.808         | 41.35                          | -                 | -                            | 54                       | -              |
| 12022.5            | PK                               | H                            | 35.4           | 43.38                          | -                 | -                            | 74                       | -              |
| 12022.5            | AV                               | H                            | 35.4           | 43.38                          | -                 | -                            | 54                       | -              |
| 14427              | PK                               | H                            | 34.754         | 44.99                          | -                 | -                            | 74                       | -              |
| 14427              | AV                               | H                            | 34.754         | 44.99                          | -                 | -                            | 54                       | -              |
| 16831.5            | PK                               | H                            | 35.346         | 42.8                           | -                 | -                            | 74                       | -              |
| 16831.5            | AV                               | H                            | 35.346         | 42.8                           | -                 | -                            | 54                       | -              |
| 19236              | PK                               | H                            | 34.488         | 49.78                          | -                 | -                            | 74                       | -              |
| 19236              | AV                               | H                            | 34.488         | 49.78                          | -                 | -                            | 54                       | -              |
| 21640.5            | PK                               | H                            | 34.588         | 51.04                          | -                 | -                            | 74                       | -              |
| 21640.5            | AV                               | H                            | 34.588         | 51.04                          | -                 | -                            | 54                       | -              |
| 24045              | PK                               | H                            | 35.52          | 54.51                          | -                 | -                            | 74                       | -              |
| 24045              | AV                               | H                            | 35.52          | 54.51                          | -                 | -                            | 54                       | -              |

**Remark:**

1. Corrected Level = Reading Level + Correction Factor – Preamp

2. Correction Factor = Antenna Factor + Cable Loss

3. “-” means the emission is below the noise floor, and the noise floor listed below:

For PK:

1GHz-10GHz: 50dBuV

10GHz-26.5GHz: 60dBuV

For AV:

1GHz-10GHz: 40dBuV

10GHz-26.5GHz: 45dBuV

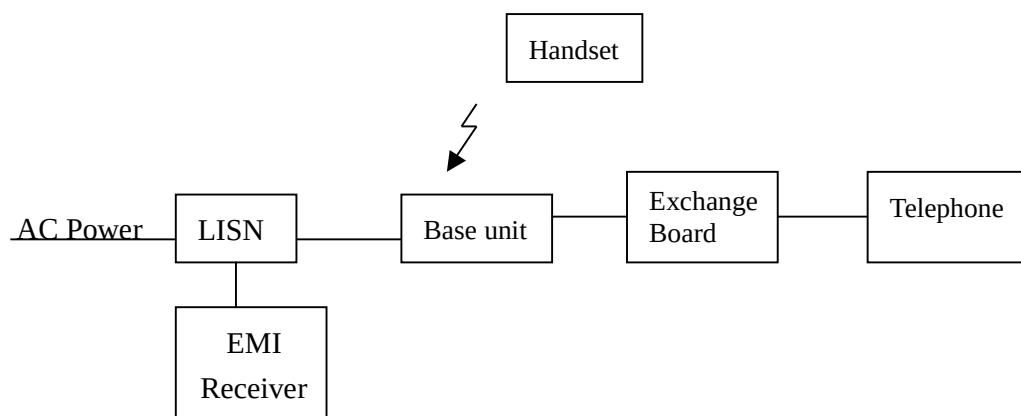


#### 4. Conducted emission test FCC 15.207

##### 4.1 Operating environment

|                      |      |     |               |
|----------------------|------|-----|---------------|
| Temperature:         | 25   | °C  | (10-40°C)     |
| Relative Humidity:   | 55   | %   | (10-90%)      |
| Atmospheric Pressure | 1023 | hPa | (860-1061hPa) |

##### 4.2 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 C63.4/1992 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”.



#### 4.3 Emission limit

| Freq.<br>(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.





#### **4.4 Conducted emission data FCC 15.207**

Line/Neutral

EUT : 36270

Test Condition : Standby mode, Charging mode, Talking mode  
Ringing mode,

Remark: The emissions were very low against the limit in the frequency range 150kHz to 30MHz. Please see the plot as below.



# Intertek Testing Services

ETL SEMKO

FCC ID. : PEG36270

Report No.: EME-030528

Page 26 of 42

## Intertek Testing Services

### RF VOLTAGE

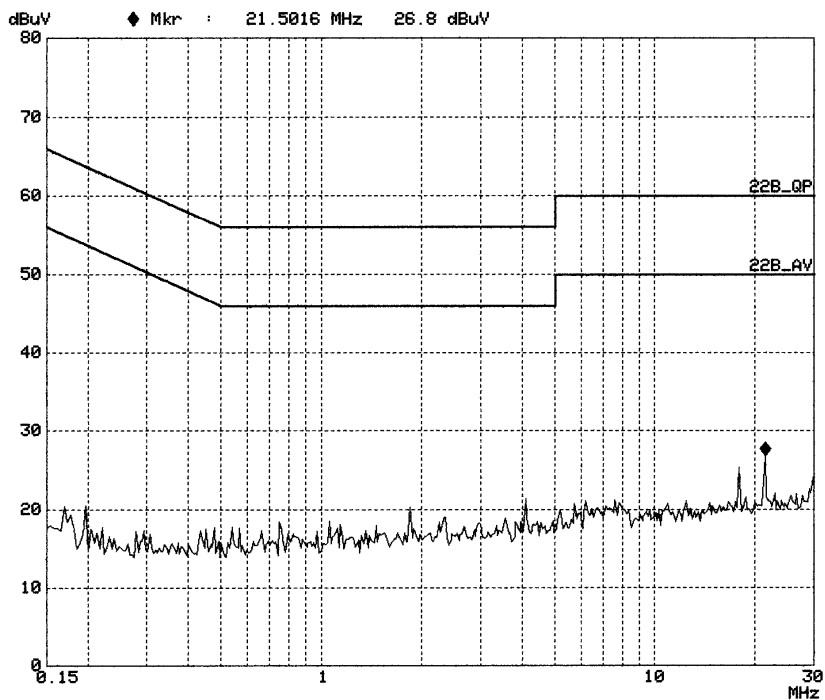
EUT: 36270  
Manuf: Senton  
Op Cond: LISN-L  
Operator: Elton  
Test Spec: FCC Part 15.207  
Comment: EMI RCV:835418/012  
120V 60Hz 25'C 59%RH base unit;stand-by mode  
Date: 28. Apr 03 14:44

### Overview Scan Settings (1 Range)

| Frequencies |      |      | Receiver Settings |          |        |              |
|-------------|------|------|-------------------|----------|--------|--------------|
| Start       | Stop | Step | IF BW             | Detector | M-Time | Atten Preamp |
| 150k        | 30M  | 3.9k | 9k                | PK       | 0.10ms | 10dBLN OFF   |

Final Measurement: x QP

Meas Time: 1 s





# Intertek Testing Services

## ETL SEMKO

FCC ID. : PEG36270

Report No.: EME-030528

Page 27 of 42

### Intertek Testing Services

#### RF VOLTAGE

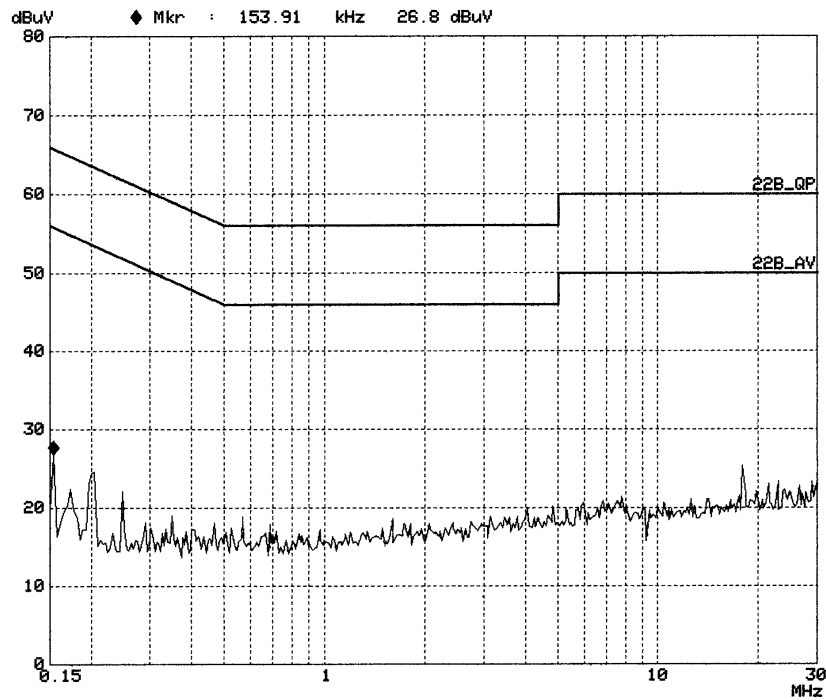
EUT: 36270  
Manuf: Senton  
Op Cond: LISN-N  
Operator: Elton  
Test Spec: FCC Part 15.207  
Comment: EMI RCV:825788/014  
120V 60Hz 25°C 59%RH base unit;stand-by mode  
Date: 28. Apr 03 14:47

#### Overview Scan Settings (1 Range)

| Frequencies |      |      | Receiver Settings |          |        |              |
|-------------|------|------|-------------------|----------|--------|--------------|
| Start       | Stop | Step | IF BW             | Detector | M-Time | Atten Preamp |
| 150k        | 30M  | 3.9k | 9k                | PK       | 0.10ms | 10dBLN OFF   |

Final Measurement: x QP

Meas Time: 1 s





# Intertek Testing Services

## ETL SEMKO

FCC ID. : PEG36270

Report No.: EME-030528

Page 28 of 42

### Intertek Testing Services

#### RF VOLTAGE

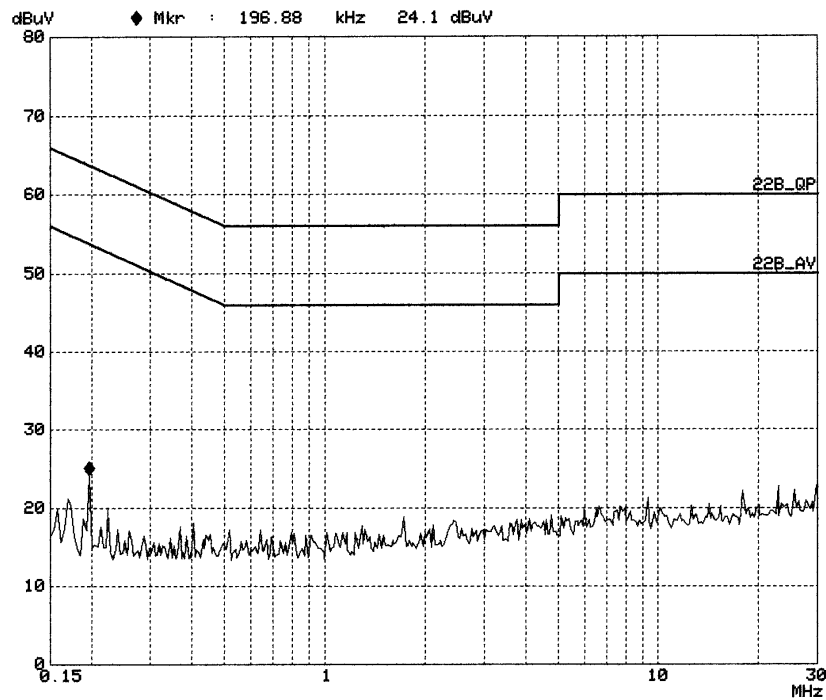
EUT: 36270  
Manuf: Senton  
Op Cond: LISN-N  
Operator: Elton  
Test Spec: FCC Part 15.207  
Comment: EMI RCV:825788/014  
120V 60Hz 25°C 59%RH base unit;charging mode  
Date: 28. Apr 03 14:50

#### Overview Scan Settings (1 Range)

| Frequencies |      |      | Receiver Settings |          |        |              |
|-------------|------|------|-------------------|----------|--------|--------------|
| Start       | Stop | Step | IF BW             | Detector | M-Time | Atten Preamp |
| 150k        | 30M  | 3.9k | 9k                | PK       | 0.10ms | 10dBLN OFF   |

Final Measurement: x QP

Meas Time: 1 s





# Intertek Testing Services

ETL SEMKO

FCC ID. : PEG36270

Report No.: EME-030528

Page 29 of 42

## Intertek Testing Services

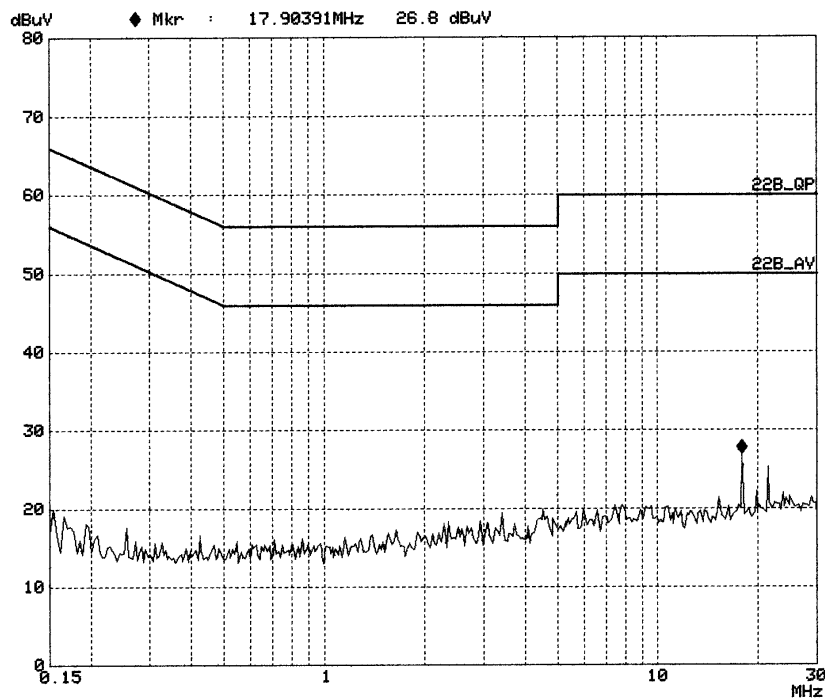
### RF VOLTAGE

EUT: 36270  
Manuf: Senton  
Op Cond: LISN-L  
Operator: Elton  
Test Spec: FCC Part 15.207  
Comment: EMI RCV:825788/014  
120V 60Hz 25'C 59%RH base unit;charging mode  
Date: 28. Apr 03 14:52

### Overview Scan Settings (1 Range)

| Frequencies |      |      | Receiver Settings |          |        |        |        |
|-------------|------|------|-------------------|----------|--------|--------|--------|
| Start       | Stop | Step | IF BW             | Detector | M-Time | Atten  | Preamp |
| 150k        | 30M  | 3.9k | 9k                | PK       | 0.10ms | 10dBLN | OFF    |

Final Measurement: x QP  
Meas Time: 1 s





# Intertek Testing Services

## ETL SEMKO

FCC ID. : PEG36270

Report No.: EME-030528

Page 30 of 42

### Intertek Testing Services

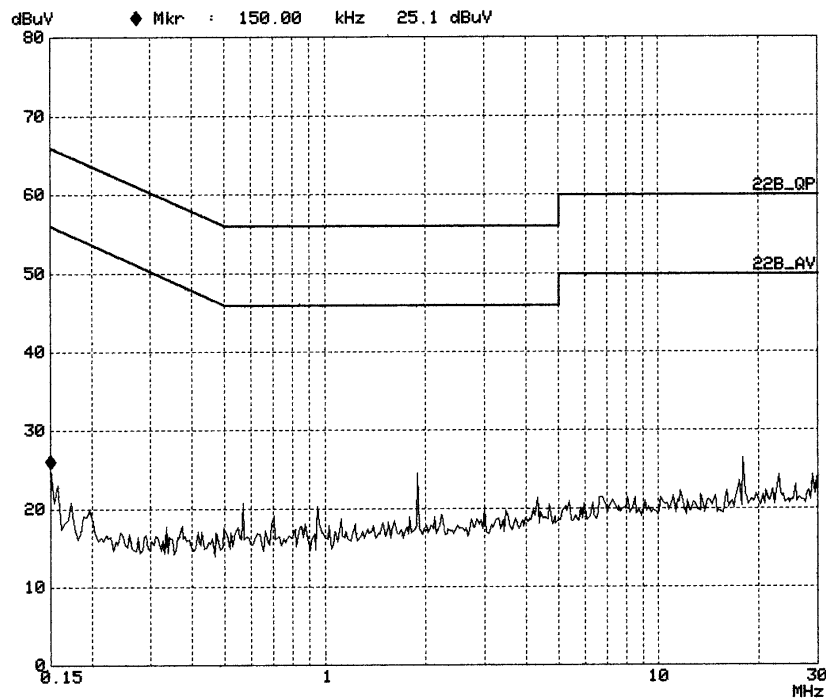
#### RF VOLTAGE

EUT: 36270  
Manuf: Senton  
Op Cond: LISN-L  
Operator: Elton  
Test Spec: FCC Part 15.207  
Comment: EMI RCV:825788/014  
120V 60Hz 25'C 59%RH base unit;ringing mode  
Date: 28. Apr 03 14:55

#### Overview Scan Settings (1 Range)

| Frequencies |      |      | Receiver Settings |          |        |        |        |
|-------------|------|------|-------------------|----------|--------|--------|--------|
| Start       | Stop | Step | IF BW             | Detector | M-Time | Atten  | Preamp |
| 150k        | 30M  | 3.9k | 9k                | PK       | 0.10ms | 10dBLN | OFF    |

Final Measurement: x QP  
Meas Time: 1 s





# Intertek Testing Services

## ETL SEMKO

FCC ID. : PEG36270

Report No.: EME-030528

Page 31 of 42

### Intertek Testing Services

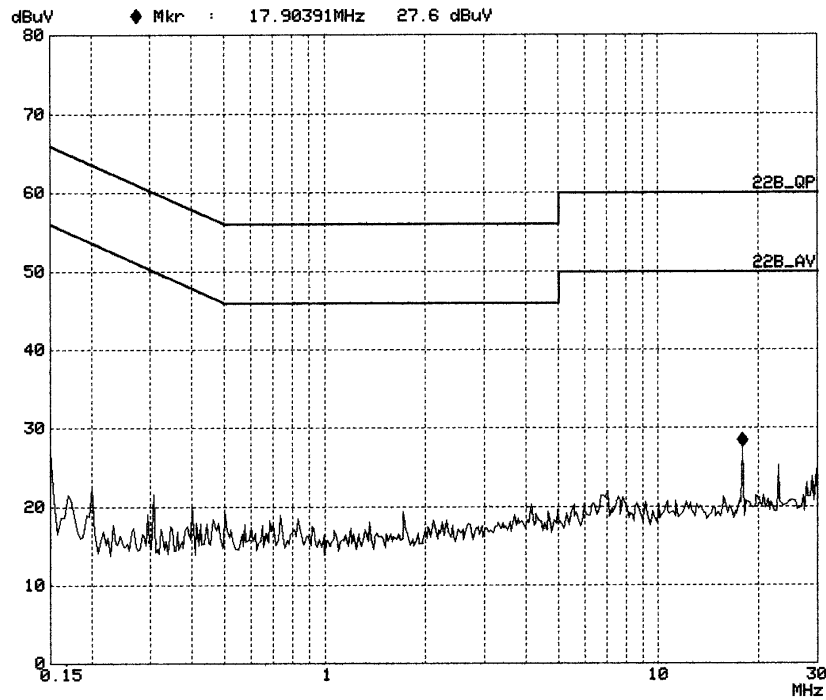
#### RF VOLTAGE

EUT: 36270  
Manuf: Senton  
Op Cond: LISN-N  
Operator: Elton  
Test Spec: FCC Part 15.207  
Comment: EMI RCV:825788/014  
120V 60Hz 25'C 59%RH base unit;ringing mode  
Date: 28. Apr 03 14:57

#### Overview Scan Settings (1 Range)

| Frequencies |      |      | Receiver Settings |          |        |        |        |
|-------------|------|------|-------------------|----------|--------|--------|--------|
| Start       | Stop | Step | IF BW             | Detector | M-Time | Atten  | Preamp |
| 150k        | 30M  | 3.9k | 9k                | PK       | 0.10ms | 10dBLN | OFF    |

Final Measurement: x QP  
Meas Time: 1 s





# Intertek Testing Services

## ETL SEMKO

FCC ID. : PEG36270

Report No.: EME-030528

Page 32 of 42

### Intertek Testing Services

#### RF VOLTAGE

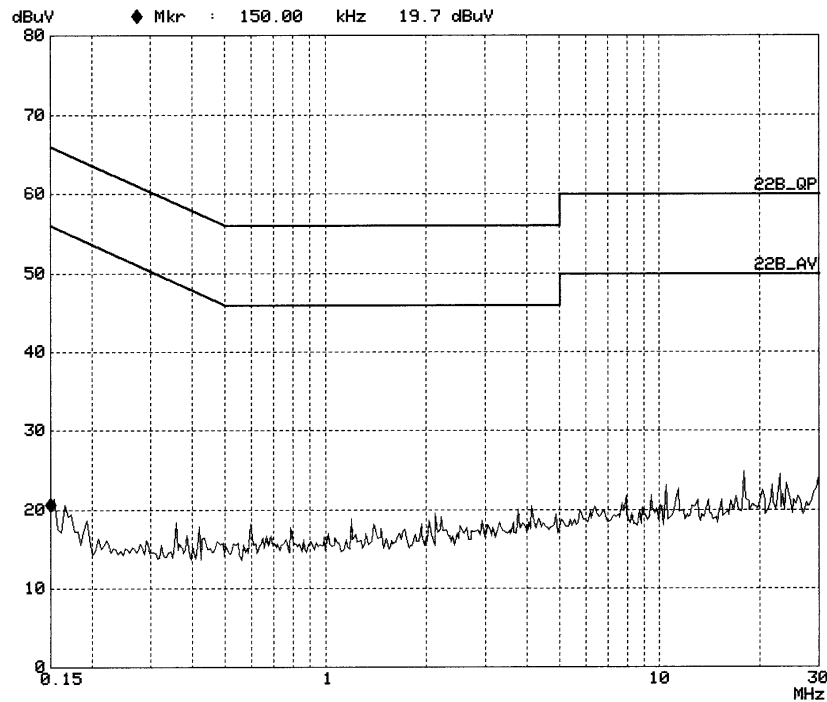
EUT: 36270  
Manuf: Senton  
Op Cond: LISN-N  
Operator: Elton  
Test Spec: FCC Part 15.207  
Comment: EMI RCV:825788/014  
120V 60Hz 25'C 59%RH base unit;talk mode  
Date: 28. Apr 03 15:00

#### Overview Scan Settings (1 Range)

| Frequencies |      |      | Receiver Settings |          |        |        |        |
|-------------|------|------|-------------------|----------|--------|--------|--------|
| Start       | Stop | Step | IF BW             | Detector | M-Time | Atten  | Preamp |
| 150k        | 30M  | 3.9k | 9k                | PK       | 0.10ms | 10dBLN | OFF    |

Final Measurement: x QP

Meas Time: 1 s







# Intertek Testing Services

## ETL SEMKO

FCC ID. : PEG36270

Report No.: EME-030528

Page 33 of 42

### Intertek Testing Services

#### RF VOLTAGE

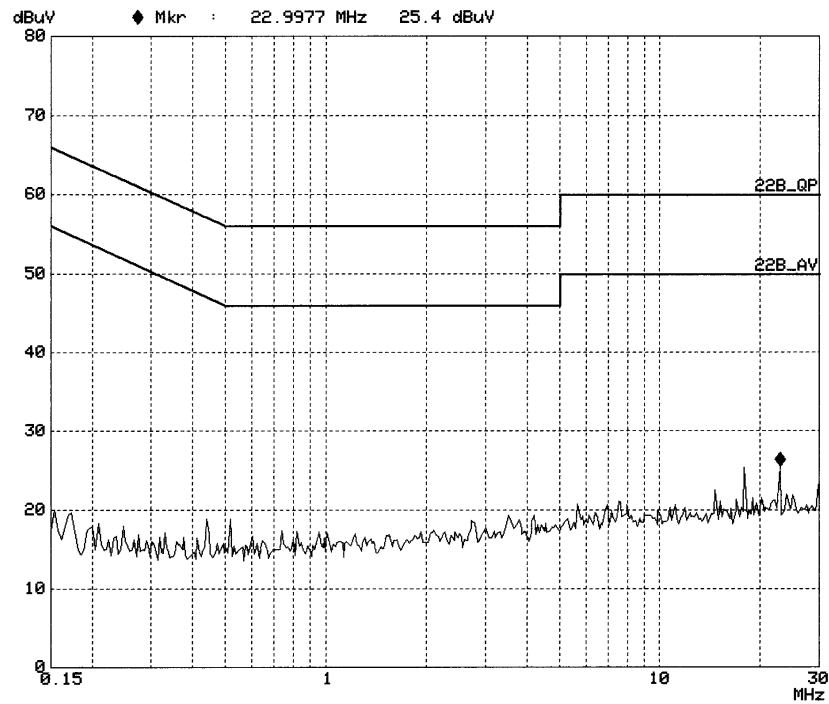
EUT: 36270  
Manuf: Senton  
Op Cond: LISN-L  
Operator: Elton  
Test Spec: FCC Part 15.207  
Comment: EMI RCV:825788/014  
120V 60Hz 25°C 59%RH base unit;talk mode  
Date: 28. Apr 03 15:03

#### Overview Scan Settings (1 Range)

| Frequencies |      |      | Receiver Settings |          |        |        |        |
|-------------|------|------|-------------------|----------|--------|--------|--------|
| Start       | Stop | Step | IF BW             | Detector | M-Time | Atten  | Preamp |
| 150k        | 30M  | 3.9k | 9k                | PK       | 0.10ms | 10dBLN | OFF    |

Final Measurement: x QP

Meas Time: 1 s





#### **5. 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 (2400~2483.5MHz) or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

See band-edge plot as below



# Intertek Testing Services

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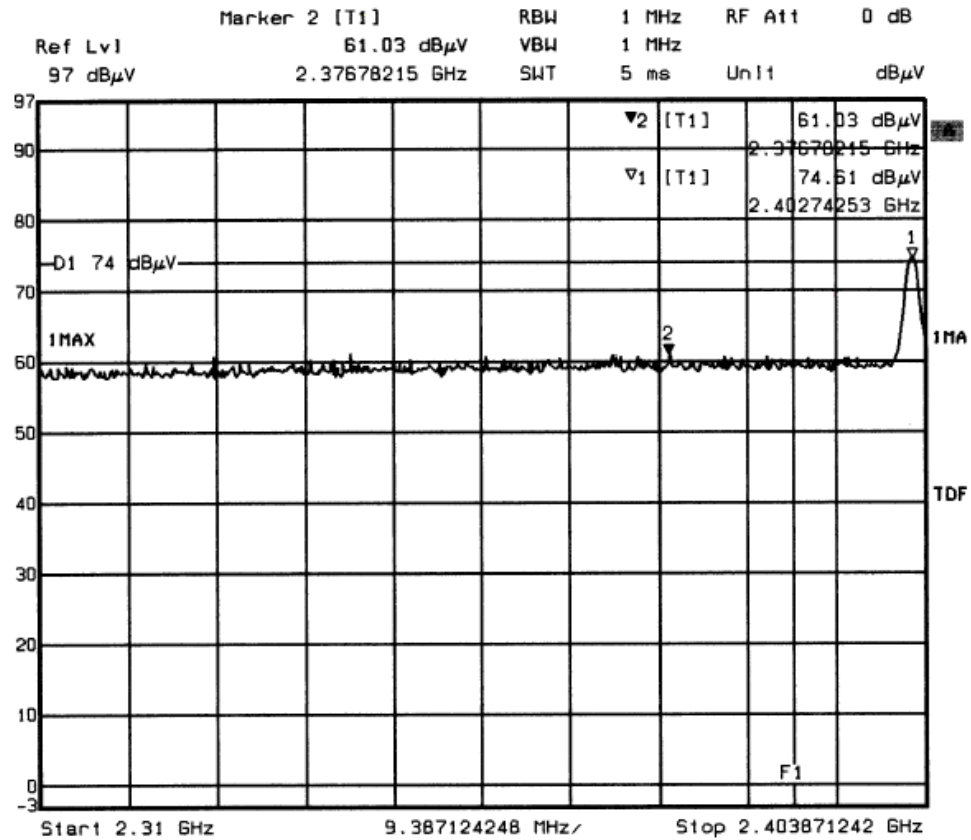
FCC ID. : PEG36270

Report No.: EME-030528

Page 35 of 42

Test Channel: Tx at low channel (base unit)

Detector: PK



Comment A: BSU Band-edge at low channel  $F_1 = 2390$  MHz  
Peak detector (Equipment Used: EC338 EC365)





# Intertek Testing Services

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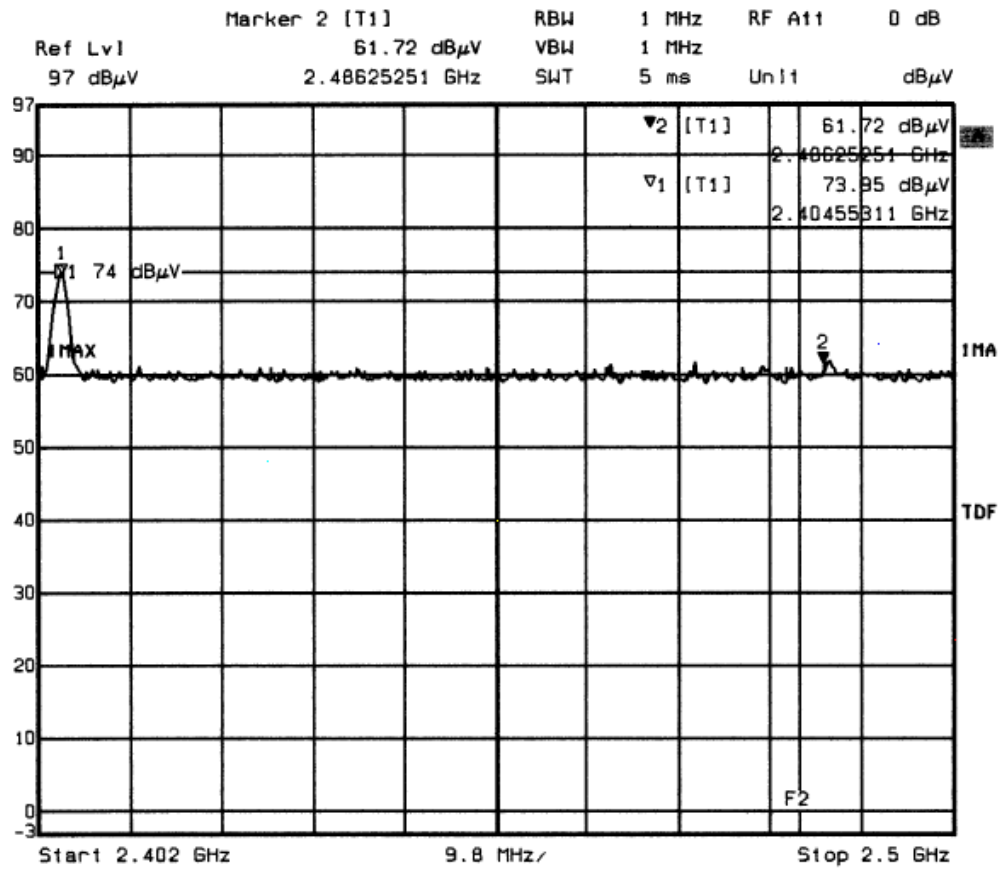
FCC ID. : PEG36270

Report No.: EME-030528

Page 37 of 42

Test Channel: Tx at high channel (base unit)

Detector: PK



Comment A: BSU Band-edge at high channel

Peak detector, F2=2483.5MHz (Equipment Used: EC338 EC365)



# Intertek Testing Services

ETL SEMKO

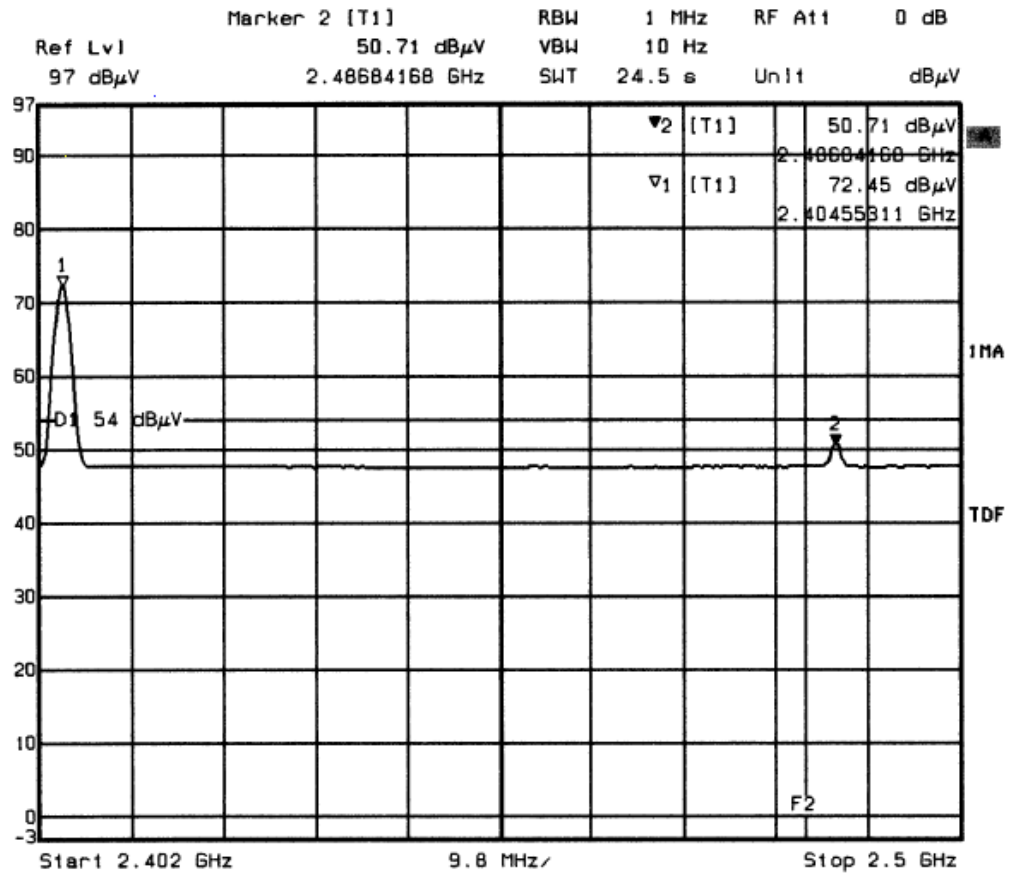
FCC ID. : PEG36270

Report No.: EME-030528

Page 38 of 42

Test Channel: Tx at high channel (base unit)

Detector: AV



Comment A: BSU Band-edge at high channel

Average detector, F2=2483.5MHz (Equipment Used: EC338 EC365)



# Intertek Testing Services

ETL SEMKO

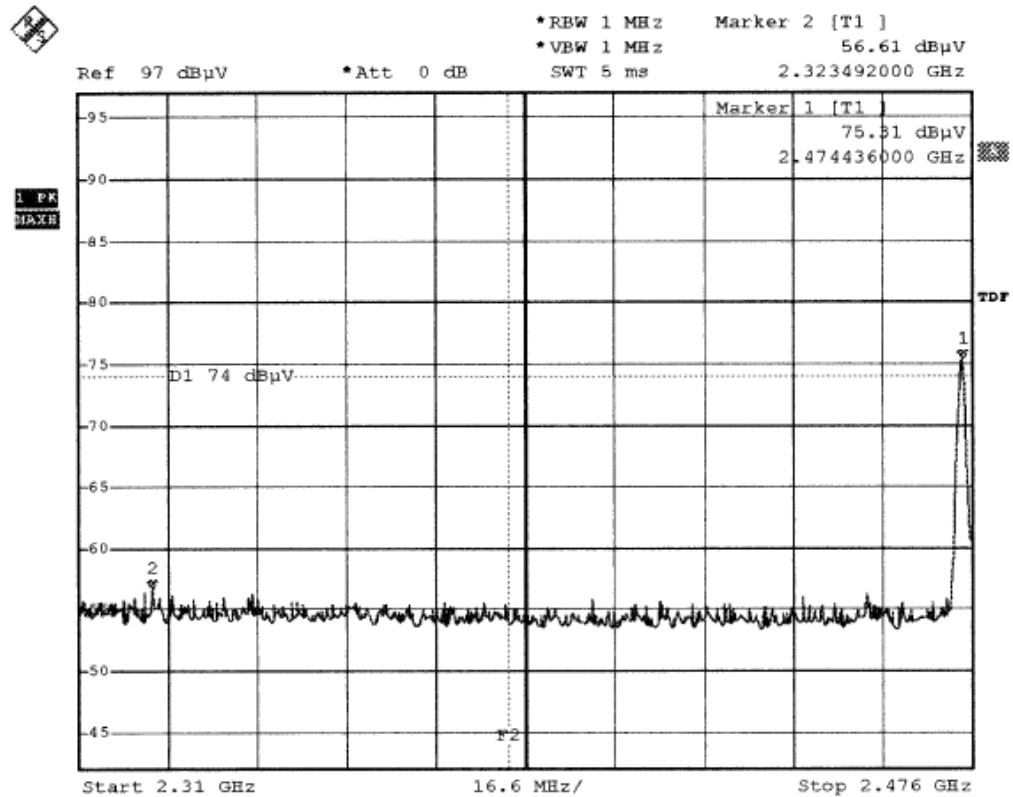
FCC ID. : PEG36270

Report No.: EME-030528

Page 39 of 42

Test Channel: Tx at low channel (handset unit)

Detector: PK



Comment A: Band-edge test at low channel1  
Peak detector F2=2390MHz



# Intertek Testing Services

ETL SEMKO

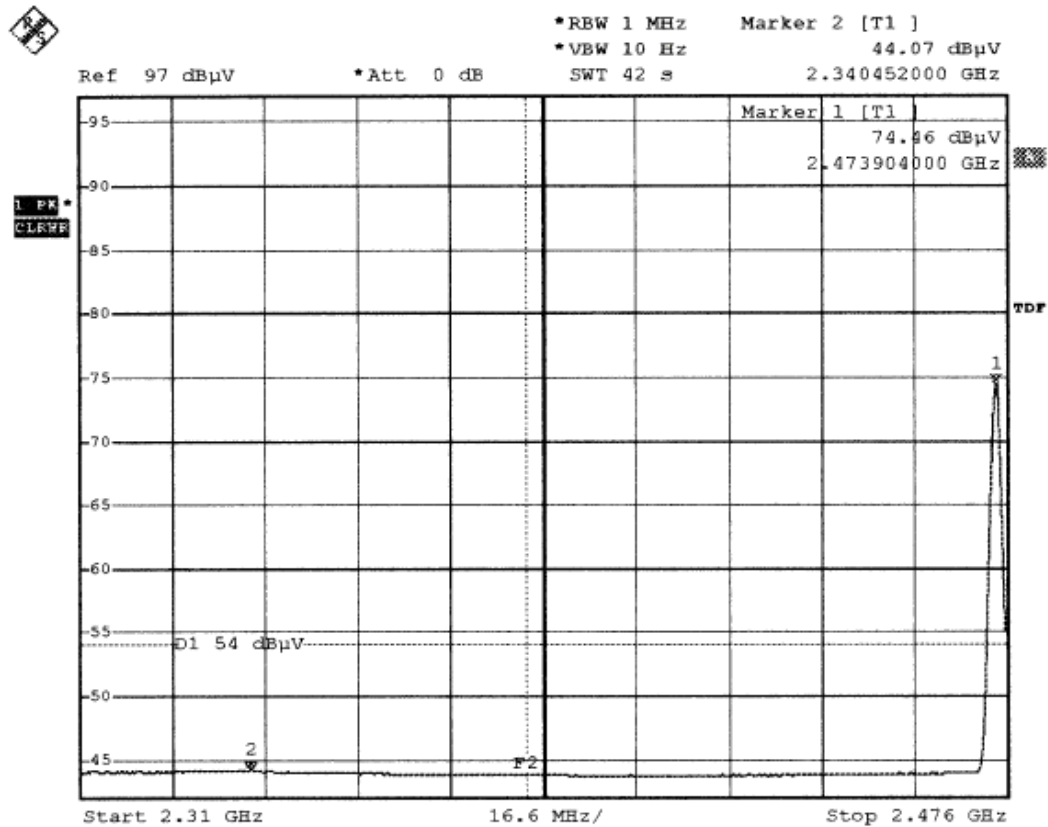
FCC ID. : PEG36270

Report No.: EME-030528

Page 40 of 42

Test Channel: Tx at low channel (handset unit)

Detector: AV



Comment A: Band-edge test at low channel  
Average detector F2=2390MHz





# Intertek Testing Services

ETL SEMKO

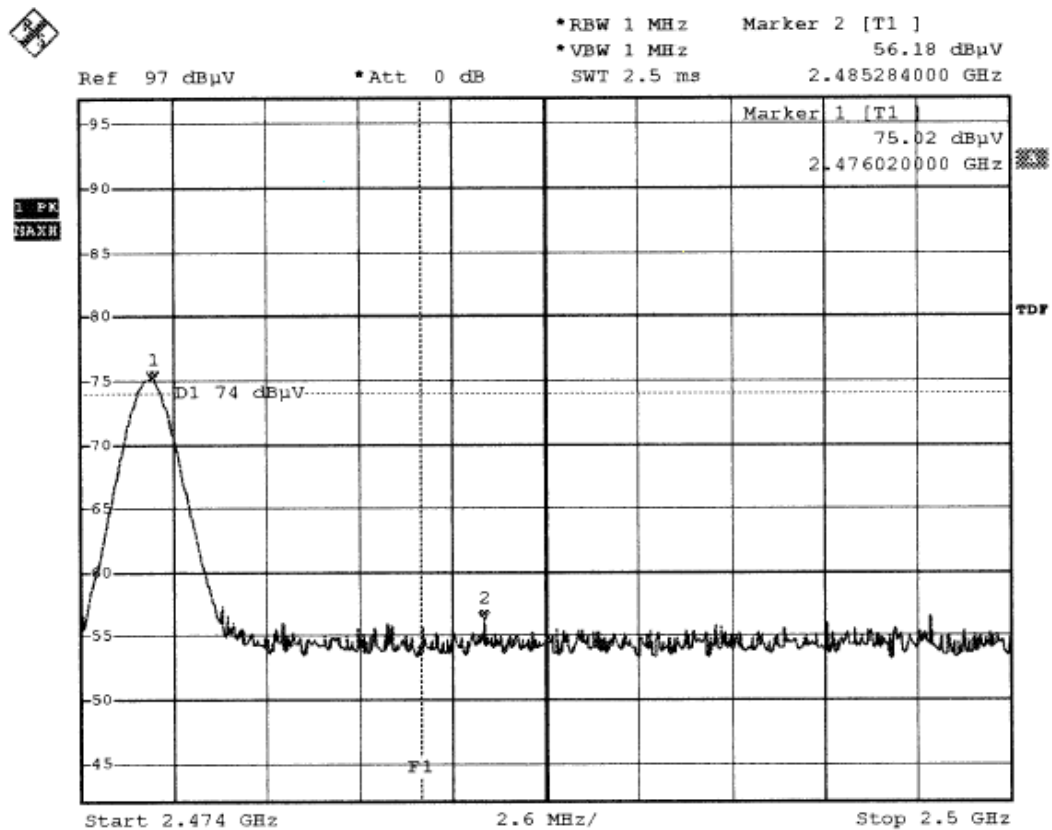
FCC ID. : PEG36270

Report No.: EME-030528

Page 41 of 42

Test Channel: Tx at high channel (handset unit)

Detector: PK



Comment A: Band-edge test at high channel N B  
Peak detector F1=2483.5MHz



# Intertek Testing Services

ETL SEMKO

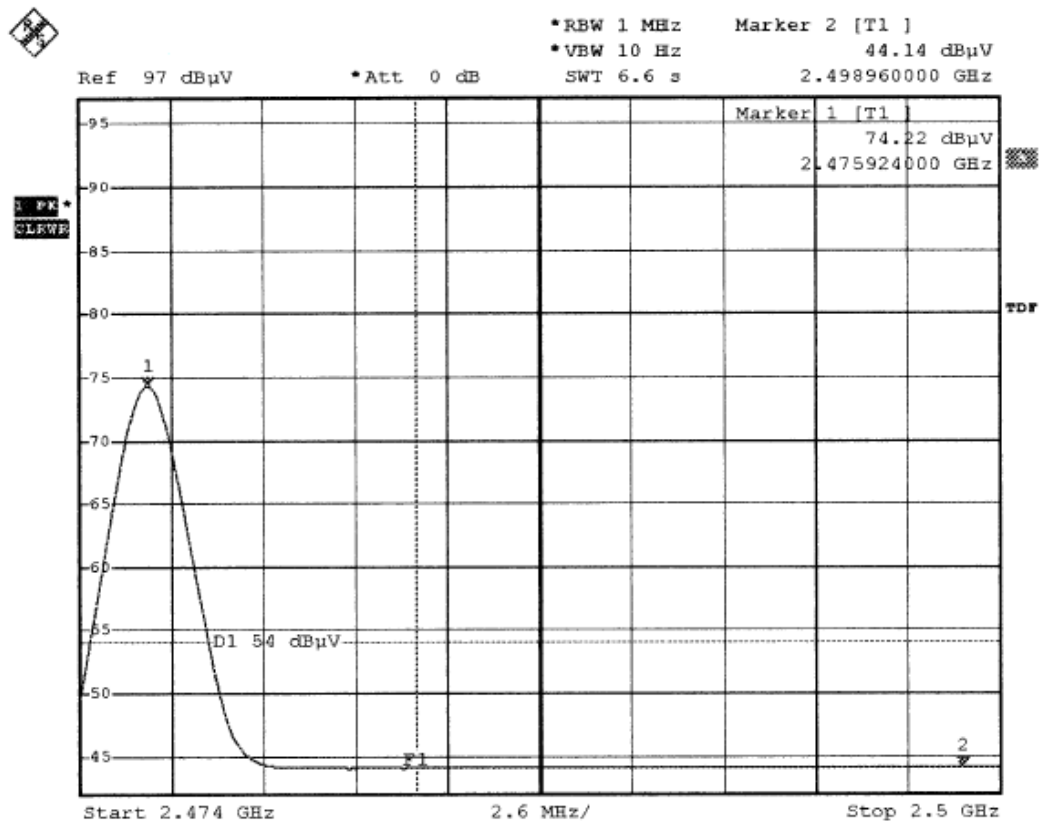
FCC ID. : PEG36270

Report No.: EME-030528

Page 42 of 42

Test Channel: Tx at high channel (handset unit)

Detector: AV



Comment A: Band-edge test at high channel  
Average detector F1=2483.5MHz