

EMC TEST Report

Issued Date : Jul. 17, 2006

Report No. : 0606171

Equipment : IPC

Model No. : POC-155

Applicant : Advantech Co., Ltd.

Address : No. 1, Alley 20, Lane 26, Rueiguang Road,
Neihu District, Taipei, Taiwan 114, R.O.C.

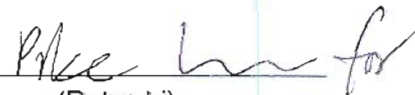
Tested by:

Neutron Engineering Inc. EMC Laboratory


Data of Test:

Jun. 30, 2006 ~ Jul. 12, 2006

Testing Engineer :


(Peter Li)

Technical Manager :


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Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (NML) of R.O.C., or National Institute of Standards and Technology (NIST) of U.S.A.

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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1. CERTIFICATION

Equipment: IPC
Trade Name: ADVANTECH
Model No.: POC-155
Applicant: Advantech Co., Ltd.
Data of Test: Jun. 30, 2006 ~ Jul. 12, 2006
Test Item: ENGINEERING SAMPLE
Standards: FCC Part 15, Subpart B, Class B
CISPR 22: 1997+A1: 2000, Class B
ICES-003: 2004, Class B
ANSI C63.4-2003

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCE-1-0606171) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and CNLA according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| EMC Emission | | | | |
|---|--------------------|---------|----------|--------|
| Standard | Test Item | Limit | Judgment | Remark |
| FCC Part15, Subpart B CISPR 22:1997+A1: 2000 ICES-003: 2004 | Conducted Emission | Class B | PASS | |
| | Radiated Emission | Class B | PASS | |

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **C01/OS02** at the location of No.132-1, Lane 329, Sec. 2, Palain Road, Shijr City, Taipei, Taiwan.

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95 %**.

A. Conducted Measurement :

| Test Site | Method | Measurement Frequency Range | U , (dB) | NOTE |
|-----------|--------|-----------------------------|----------|------|
| C-01 | ANSI | 150 KHz ~ 30MHz | 1.94 | |

B. Radiated Measurement :

| Test Site | Method | Measurement Frequency Range | Ant. H / V | U , (dB) | NOTE |
|-----------|--------|-----------------------------|------------|----------|------|
| OS-01 | ANSI | 30MHz ~ 200MHz | V | 3.82 | |
| | | 30MHz ~ 200MHz | H | 3.60 | |
| | | 200MHz ~ 1,000MHz | V | 3.86 | |
| | | 200MHz ~ 1,000MHz | H | 3.94 | |
| OS-02 | ANSI | 30MHz ~ 200MHz | V | 2.48 | |
| | | 30MHz ~ 200MHz | H | 2.16 | |
| | | 200MHz ~ 1,000MHz | V | 2.50 | |
| | | 200MHz ~ 1,000MHz | H | 2.66 | |

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| | |
|------------------------|--|
| Equipment | IPC |
| Trade Name | ADVANTECH |
| Model No. | POC-155 |
| OEM Brand/Model No. | N/A |
| Model Difference | N/A |
| Product Description | The EUT is an IPC. Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual. |
| Power Supply | AC Mains |
| Connecting I/O Port(s) | Please refer to the User's Manual |
| Products Covered | N/A |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

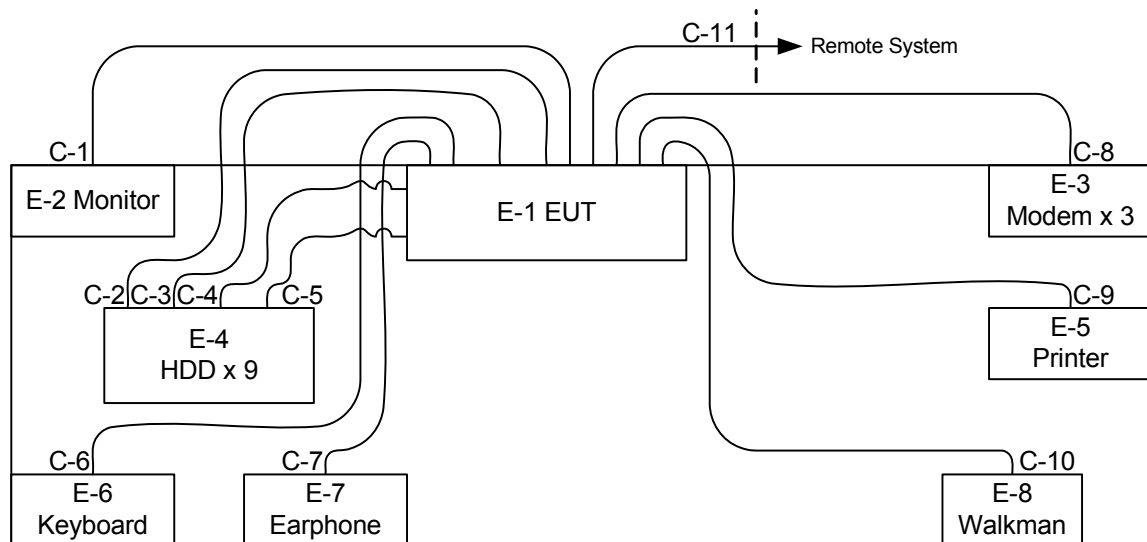
3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Test Mode | Description |
|--------------------------|--------------------|
| Mode 1 | FULL SYSTEM |

| For Conducted / Radiated Test | |
|--------------------------------------|--------------------|
| Final Test Mode | Description |
| Mode 1 | FULL SYSTEM |

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



C-1 VGA Cable
C-2 Data Cable
C-3 Data Cable
C-4 Data Cable
C-5 Data Cable
C-6 Data Cable

C-7 Audio Cable
C-8 Interface Cable
C-9 Centronics Cable
C-10 Audio Cable
C-11 RJ-45 Cable

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Mfr/Brand | Model/Type No. | FCC ID | Series No. | Note |
|------|--------------------------|-----------|-----------------|--------|-----------------|------|
| E-1 | IPC | ADVANTECH | POC-155 | DOC | N/A | EUT |
| E-2 | 19" LCD Monitor | Samsung | SyncMaster 193P | GH19PH | DI19H4JXC05517A | |
| E-3 | Modem | ACEEX | DM-1414V | DOC | 8041708 | |
| E-4 | 2.5" Mobile External HDD | FireWire | F12 | DOC | N/A | |
| E-5 | Printer | SII | DPU-414 | DOC | 1045105A | |
| E-6 | PS/2 K/B | Logitech | Y-SJ17(ACK260A) | DOC | SYU44664880 | |
| E-7 | Earphone | N/A | N/A | N/A | N/A | |
| E-8 | Walkman | N/A | KT-V860 | N/A | N/A | |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
| C-1 | YES | YES | 1.8M | |
| C-2 | YES | NO | 1.6M | |
| C-3 | YES | NO | 1.6M | |
| C-4 | YES | NO | 1.6M | |
| C-5 | YES | NO | 1.6M | |
| C-6 | YES | NO | 1.5M | |
| C-7 | NO | NO | 1.8M | |
| C-8 | YES | NO | 1.5M | |
| C-9 | YES | NO | 1.8M | |
| C-10 | NO | NO | 1.8M | |
| C-11 | NO | NO | 20M | |

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

4. EMC EMISSION TEST**4.1 CONDUCTED EMISSION MEASUREMENT****4.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)**

| FREQUENCY (MHz) | Class A (dBuV) | | Class B (dBuV) | |
|-----------------|----------------|---------|----------------|-----------|
| | Quasi-peak | Average | Quasi-peak | Average |
| 0.15 -0.5 | 79.00 | 66.00 | 66 - 56 * | 56 - 46 * |
| 0.50 -5.0 | 73.00 | 60.00 | 56.00 | 46.00 |
| 5.0 -30.0 | 73.00 | 60.00 | 60.00 | 50.00 |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.1.2 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|-----------------|------------|------------|------------------|
| 1 | LISN | Rolf Heine | NNB-2/16Z | 98053 | Dec. 19, 2006 |
| 2 | 4L-V-LISN | Rolf Heine | NNB-4/63TL | 02/10040 | Apr. 10, 2007 |
| 3 | Pulse Limiter | Electro-Metrics | EM-7600 | 112644 | Nov. 29, 2006 |
| 4 | 50Ω Terminator | N/A | N/A | N/A | May.11, 2007 |
| 5 | Test Cable | N/A | C01 | N/A | Nov. 29, 2006 |
| 6 | EMI Test Receiver | R&S | ESCI | 100082 | Feb. 01, 2007 |

Remark: " N/A " denotes No Model No. , Serial No. or No Calibration specified.

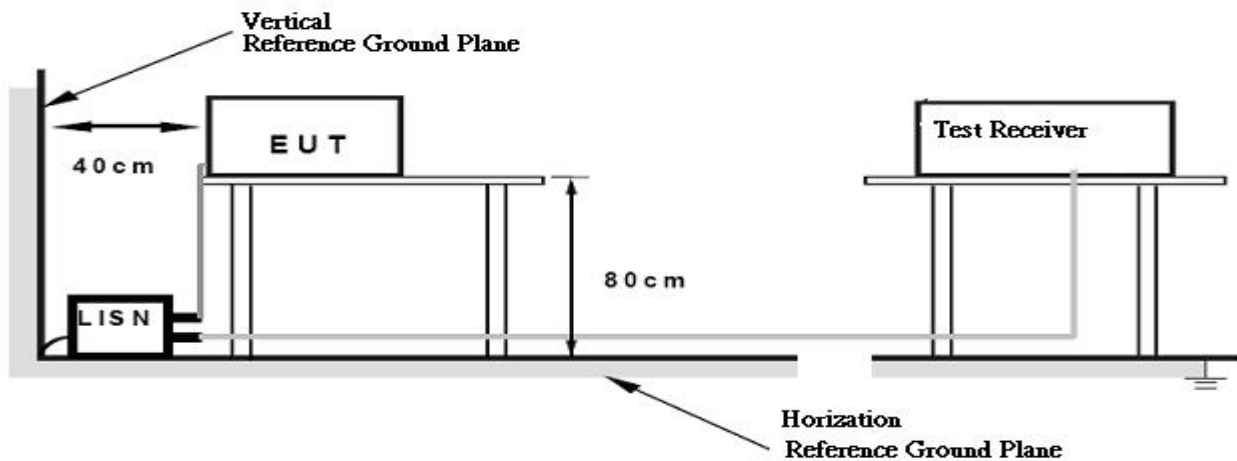
4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



4.1.6 EUT OPERATING CONDITIONS

The EUT exercise program (EMC Test Program File) used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use. The program contained on a PC hard disk and is auto-starting on power-up. Once loaded, the program sequentially exercises each system component in turn. The sequence used is:

1. Read (write) from (to) mass storage device (EUT – Ext. HDD).
2. Send "H" pattern to video port device (Monitor).
3. Send " H " pattern to parallel port device (Printer).
4. Send " H " pattern to serial port device (Modem).
5. EUT send/receive data to/from remote system.
- 6 Repeated from 2 to 5 continuously.

As the keyboard and mouse are strictly input devices, no data is transmitted to (from) them during test. They are, however, continuously scanned for data input activity.

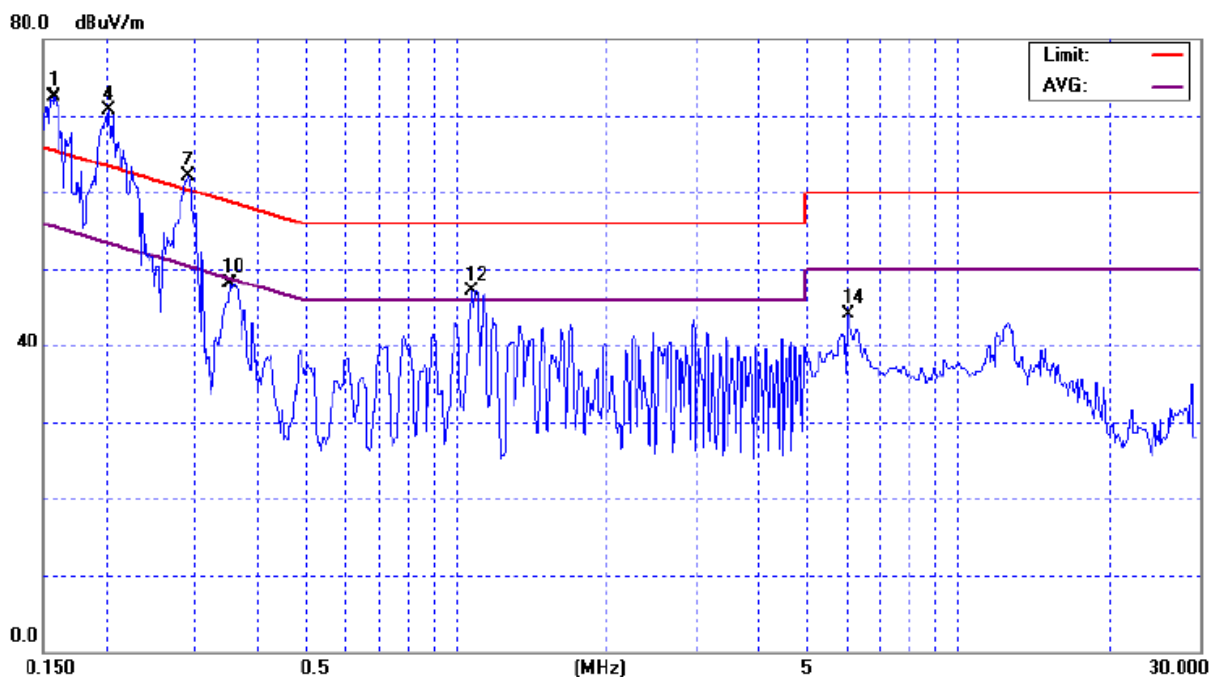
4.1.7 TEST RESULTS

| | | | |
|---------------|-------------|---------------------|--------------|
| EUT : | IPC | Model No. : | POC-155 |
| Temperature : | 24 °C | Relative Humidity : | 55 % |
| Pressure : | 1008 hPa | Test Power : | AC 120V/60Hz |
| Test Mode : | FULL SYSTEM | | |

| Freq. (MHz) | Terminal L/N | Measured(dBuV) | | Limits(dBuV) | | Margin (dB) | Note |
|----------------|-----------------|----------------|---------|--------------|---------|----------------|------|
| | | QP-Mode | AV-Mode | QP-Mode | AV-Mode | | |
| 0.16 | Line | 46.41 | 40.01 | 65.59 | 55.59 | -15.58 | (AV) |
| 0.20 | Line | 42.73 | 39.79 | 63.53 | 53.53 | -13.74 | (AV) |
| 0.29 | Line | 39.29 | 34.25 | 60.48 | 50.48 | -16.23 | (AV) |
| 0.35 | Line | 48.18 | 30.38 | 58.92 | 48.92 | -10.74 | (QP) |
| 1.07 | Line | 47.08 | 29.98 | 56.00 | 46.00 | -8.92 | (QP) |
| 6.04 | Line | 44.03 | * | 60.00 | 50.00 | -15.97 | (QP) |

Remark

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz ◦
Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz ◦
- (2) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform ◦ In this case, a “ * ” marked in AVG Mode column of Interference Voltage Measured ◦
- (3) Measuring frequency range from 150KHz to 30MHz ◦

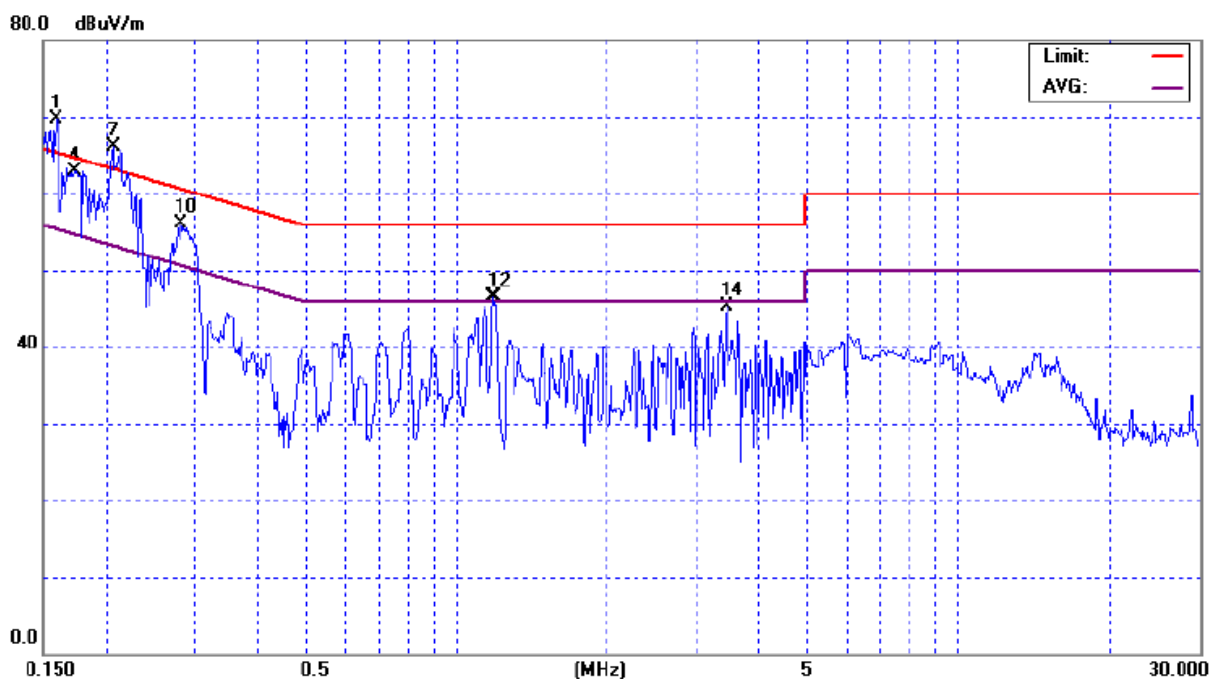


| | | | |
|---------------|-------------|---------------------|--------------|
| EUT : | IPC | Model No. : | POC-155 |
| Temperature : | 24 °C | Relative Humidity : | 55 % |
| Pressure : | 1008 hPa | Test Power : | AC 120V/60Hz |
| Test Mode : | FULL SYSTEM | | |

| Freq. (MHz) | Terminal L/N | Measured(dBuV) | | Limits(dBuV) | | Margin (dB) | Note |
|----------------|-----------------|----------------|---------|--------------|---------|----------------|------|
| | | QP-Mode | AV-Mode | QP-Mode | AV-Mode | | |
| 0.16 | Neutral | 41.74 | 37.23 | 65.52 | 55.52 | -18.29 | (AV) |
| 0.17 | Neutral | 41.22 | 36.40 | 64.84 | 54.84 | -18.44 | (AV) |
| 0.21 | Neutral | 40.16 | 35.88 | 63.35 | 53.35 | -17.47 | (AV) |
| 0.28 | Neutral | 56.14 | 32.04 | 60.80 | 50.80 | -4.66 | (QP) |
| 1.19 | Neutral | 46.46 | 31.96 | 56.00 | 46.00 | -9.54 | (QP) |
| 3.44 | Neutral | 45.25 | 31.25 | 56.00 | 46.00 | -10.75 | (QP) |

Remark

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz. Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz.
- (2) All readings are QP Mode value unless otherwise stated AVG in column of 'Note'. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
- (3) Measuring frequency range from 150KHz to 30MHz.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT (Below 1000MHz)

| FREQUENCY (MHz) | Class A (at 10m) | Class B (at 10m) |
|-----------------|------------------|------------------|
| | dBuV/m | dBuV/m |
| 30 – 230 | 40 | 30 |
| 230 – 1000 | 47 | 37 |

Notes:

- (1) The limit for radiated test was performed according to as following:
CISPR 22/ FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| FREQUENCY (MHz) | Class A (dBuV/m) (at 3m) | | Class B (dBuV/m) (at 3m) | |
|-----------------|--------------------------|---------|--------------------------|---------|
| | PEAK | AVERAGE | PEAK | AVERAGE |
| Above 1000 | 80 | 60 | 74 | 54 |

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

| Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz) | Range (MHz) |
|---|---|
| Below 1.705 | 30 |
| 1.705 – 108 | 1000 |
| 108 – 500 | 2000 |
| 500 – 1000 | 5000 |
| Above 1000 | 5 th harmonic of the highest frequency or 40 GHz, whichever is lower |

4.2.2 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|-----------------|--------------|------------|------------------|
| 1 | Log-Bicon Antenna | MESS-ELEKTRONIK | VULB 9160 | 3058 | Nov. 29, 2006 |
| 2 | Test Cable | N/A | 10M_OS02 | N/A | Nov. 29, 2006 |
| 3 | Test Cable | N/A | OS02-1/-2/-3 | N/A | Nov. 29, 2006 |
| 4 | Pre-Amplifier | Anritsu | MH648A | M09961 | Nov. 29, 2006 |
| 5 | Pre-Amplifier | Agilent | 8449B | 3008A01714 | May. 15, 2007 |
| 6 | Spectrum Analyzer | R&S | FSP_40 | 100129 | Jan. 09, 2007 |
| 7 | EMI Test Receiver | R&S | ESCI | 100082 | Feb. 01, 2007 |
| 8 | Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-325 | Oct. 26, 2006 |
| 9 | Antenna Mast | Chance Most | CMTB-1.5 | N/A | N/A |
| 10 | Turn Table | Chance Most | CMTB-1.5 | N/A | N/A |

Remark: " N/A" denotes No Model No. / Serial No. and No Calibration specified.

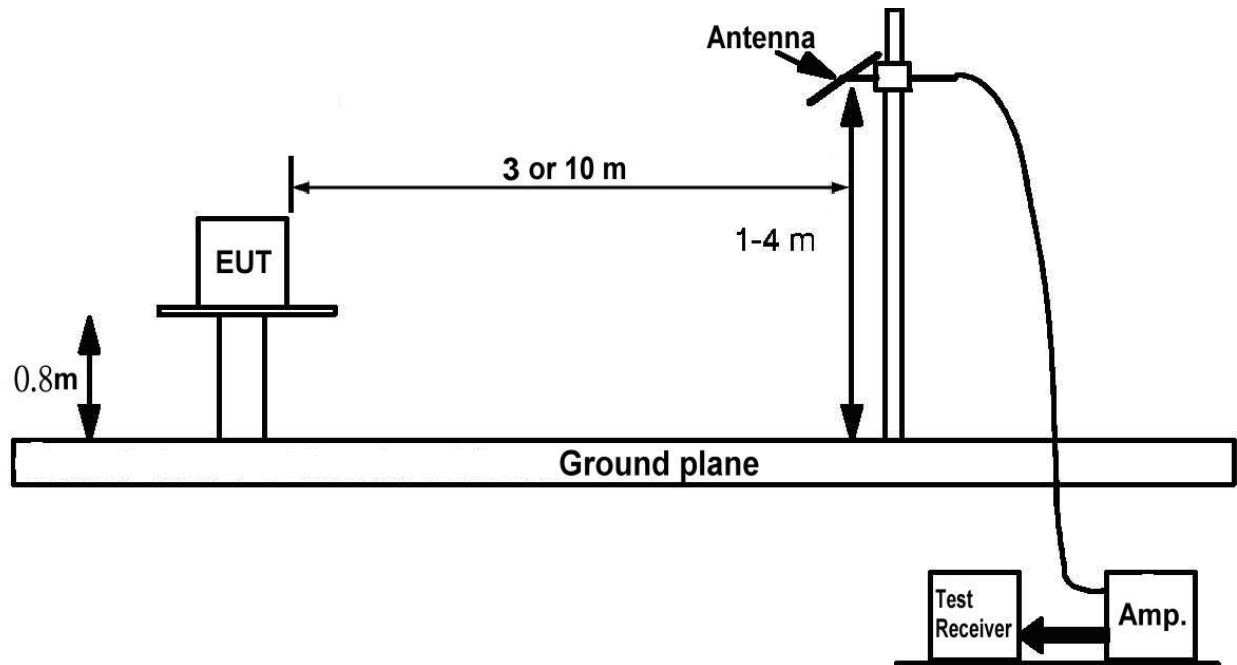
4.2.3 TEST PROCEDURE

- The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m or 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

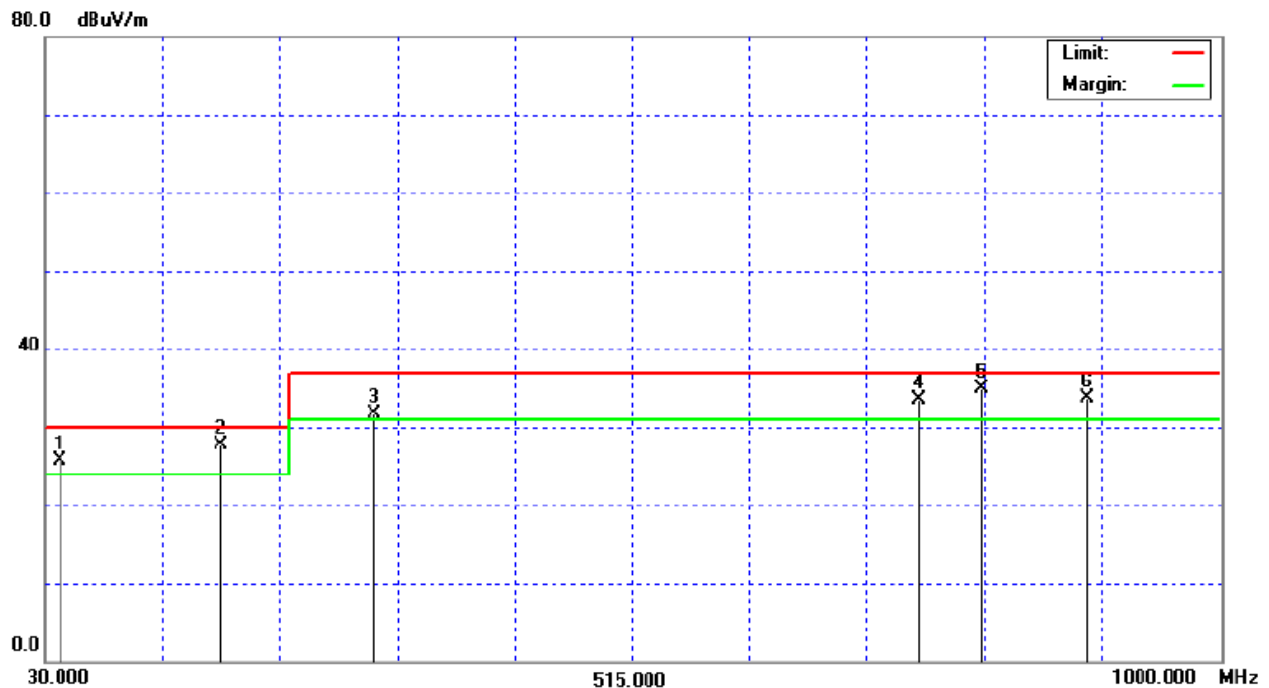
4.2.7 TEST RESULTS (Between 30MHz and 1000MHz)

| | | | |
|---------------|-------------|---------------------|--------------|
| EUT : | IPC | Model No. : | POC-155 |
| Temperature : | 31 °C | Relative Humidity : | 68 % |
| Pressure : | 1009 hPa | Test Power : | AC 120V/60Hz |
| Test Mode : | FULL SYSTEM | | |

| Freq. (MHz) | Ant. H/V | Reading(RA) (dBuV) | Corr.Factor(CF) (dB) | Measured(FS) (dBuV/m) | Limits(QP) (dBuV/m) | Margin (dB) | Note |
|----------------|-------------|-----------------------|-------------------------|--------------------------|------------------------|----------------|------|
| 39.89 | V | 32.79 | -7.13 | 25.66 | 30.00 | - 4.34 | |
| 175.01 | V | 33.90 | -6.10 | 27.80 | 30.00 | - 2.20 | QP |
| 300.04 | V | 36.58 | -4.95 | 31.63 | 37.00 | - 5.37 | |
| 750.02 | V | 27.95 | 5.63 | 33.58 | 37.00 | - 3.42 | |
| 802.96 | V | 28.85 | 6.05 | 34.90 | 37.00 | - 2.10 | QP |
| 891.26 | V | 26.40 | 7.29 | 33.69 | 37.00 | - 3.31 | |

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz ◦
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz ◦
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not how in table ◦

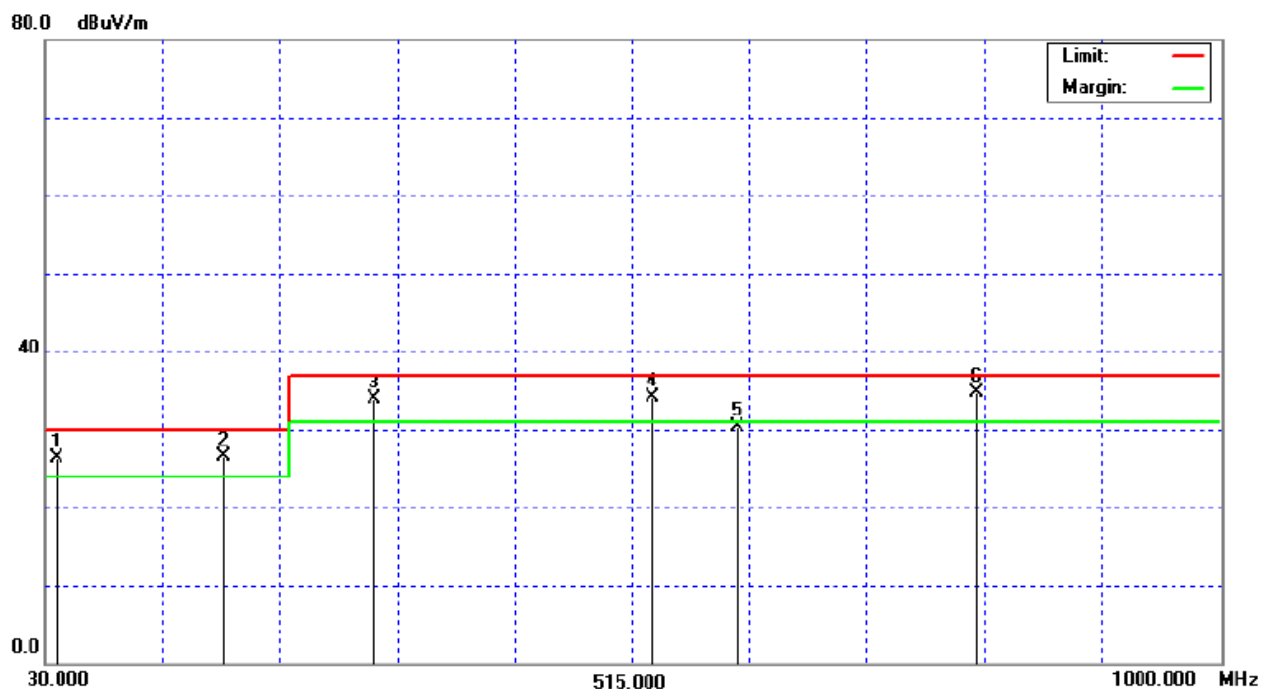


| | | | |
|---------------|-------------|---------------------|--------------|
| EUT : | IPC | Model No. : | POC-155 |
| Temperature : | 31 °C | Relative Humidity : | 68 % |
| Pressure : | 1009 hPa | Test Power : | AC 120V/60Hz |
| Test Mode : | FULL SYSTEM | | |

| Freq. (MHz) | Ant. H/V | Reading(RA) (dBuV) | Corr.Factor(CF) (dB) | Measured(FS) (dBuV/m) | Limits(QP) (dBuV/m) | Margin (dB) | Note |
|-------------|----------|--------------------|----------------------|-----------------------|---------------------|-------------|------|
| 39.62 | H | 33.55 | -7.15 | 26.40 | 30.00 | - 3.60 | |
| 176.02 | H | 32.80 | -6.20 | 26.60 | 30.00 | - 3.40 | QP |
| 300.02 | H | 38.76 | -4.95 | 33.81 | 37.00 | - 3.19 | |
| 532.21 | H | 33.52 | 0.52 | 34.04 | 37.00 | - 2.96 | |
| 602.16 | H | 28.24 | 1.97 | 30.21 | 37.00 | - 6.79 | |
| 800.08 | H | 28.64 | 6.02 | 34.66 | 37.00 | - 2.34 | QP |

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz ◦
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz ◦
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table ◦



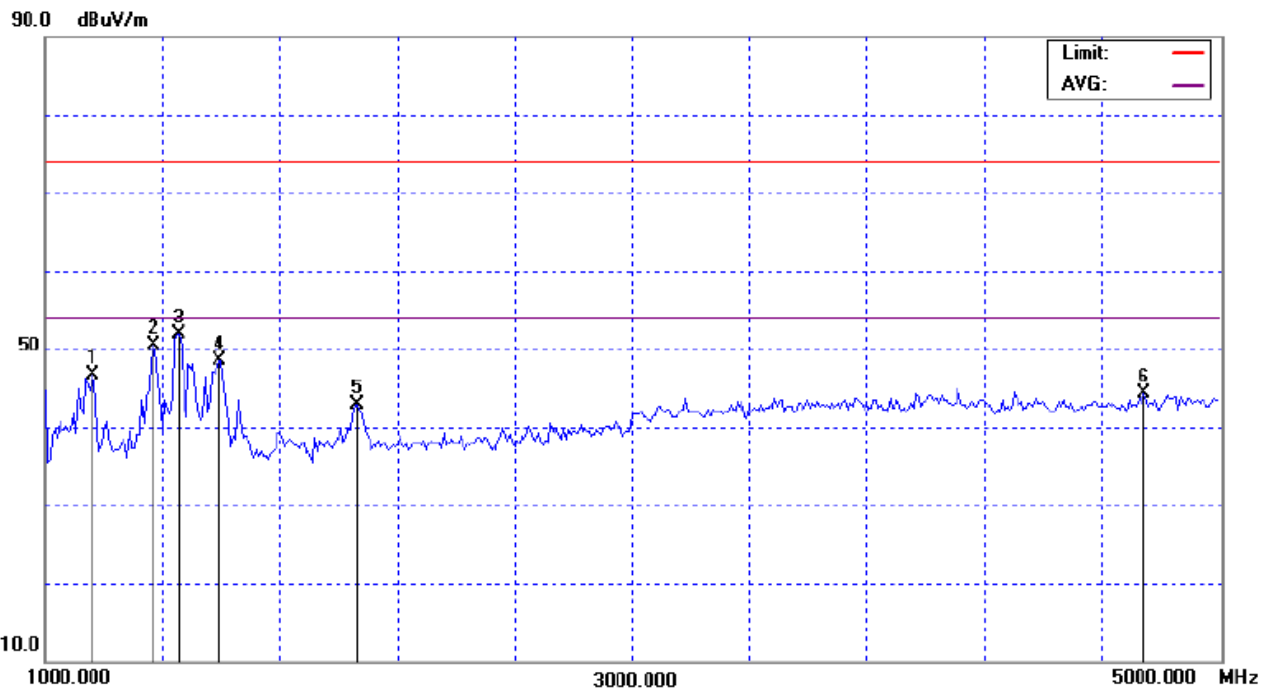
4.2.7 TEST RESULTS (above 1000MHz)

| | | | |
|---------------|-------------|---------------------|--------------|
| EUT : | IPC | Model No. : | POC-155 |
| Temperature : | 23 °C | Relative Humidity : | 68 % |
| Pressure : | 1014 hPa | Test Power : | AC 120V/60Hz |
| Test Mode : | FULL SYSTEM | | |

| Freq. (MHz) | Ant.Pol. (H/V) | Reading(dBuV) | | Ant./CF CF(dB) | Act.(dBuV/m) | | Limit(dBuV/m) | | Note |
|----------------|-------------------|---------------|----|-------------------|--------------|----|---------------|-------|------|
| | | Peak | AV | | Peak | AV | Peak | AV | |
| 1160.00 | V | 54.18 | - | -7.51 | 46.67 | - | 74.00 | 54.00 | |
| 1368.00 | V | 57.00 | - | -6.56 | 50.44 | - | 74.00 | 54.00 | |
| 1456.00 | V | 58.10 | - | -6.16 | 51.94 | - | 74.00 | 54.00 | |
| 1592.00 | V | 53.96 | - | -5.39 | 48.57 | - | 74.00 | 54.00 | |
| 2064.00 | V | 45.70 | - | -2.72 | 42.98 | - | 74.00 | 54.00 | |
| 4744.00 | V | 39.70 | - | 4.52 | 44.22 | - | 74.00 | 54.00 | |

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz ◦
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz ◦
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not how in table ◦

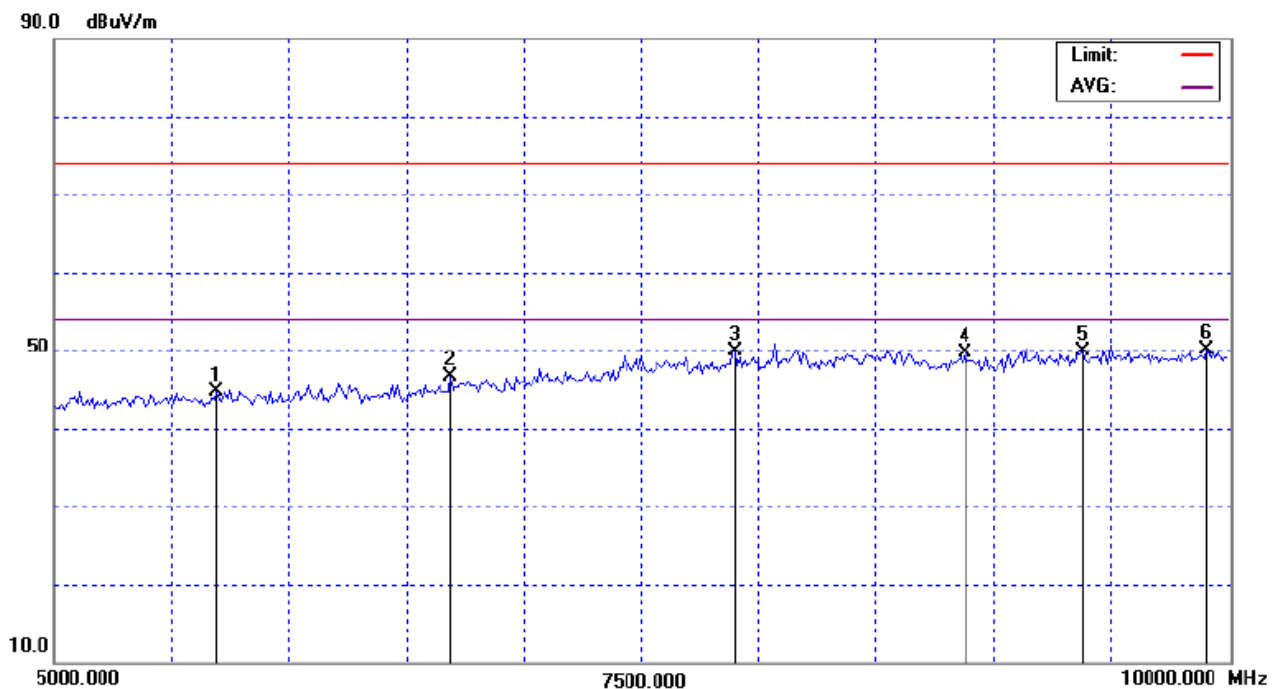


| | | | |
|---------------|-------------|---------------------|--------------|
| EUT : | IPC | Model No. : | POC-155 |
| Temperature : | 23 °C | Relative Humidity : | 68 % |
| Pressure : | 1014 hPa | Test Power : | AC 120V/60Hz |
| Test Mode : | FULL SYSTEM | | |

| Freq. (MHz) | Ant.Pol. (H/V) | Reading(dBuV) | | Ant./CF CF(dB) | Act.(dBuV/m) | | Limit(dBuV/m) | | Note |
|----------------|-------------------|---------------|----|-------------------|--------------|----|---------------|-------|------|
| | | Peak | AV | | Peak | AV | Peak | AV | |
| 5690.00 | V | 38.48 | - | 6.23 | 44.71 | - | 74.00 | 54.00 | |
| 6690.00 | V | 39.27 | - | 7.50 | 46.77 | - | 74.00 | 54.00 | |
| 7900.00 | V | 38.51 | - | 11.31 | 49.82 | - | 74.00 | 54.00 | |
| 8880.00 | V | 37.75 | - | 11.99 | 49.74 | - | 74.00 | 54.00 | |
| 9380.00 | V | 37.89 | - | 12.09 | 49.98 | - | 74.00 | 54.00 | |
| 9910.00 | V | 37.56 | - | 12.57 | 50.13 | - | 74.00 | 54.00 | |

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz ◦
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz ◦
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table ◦

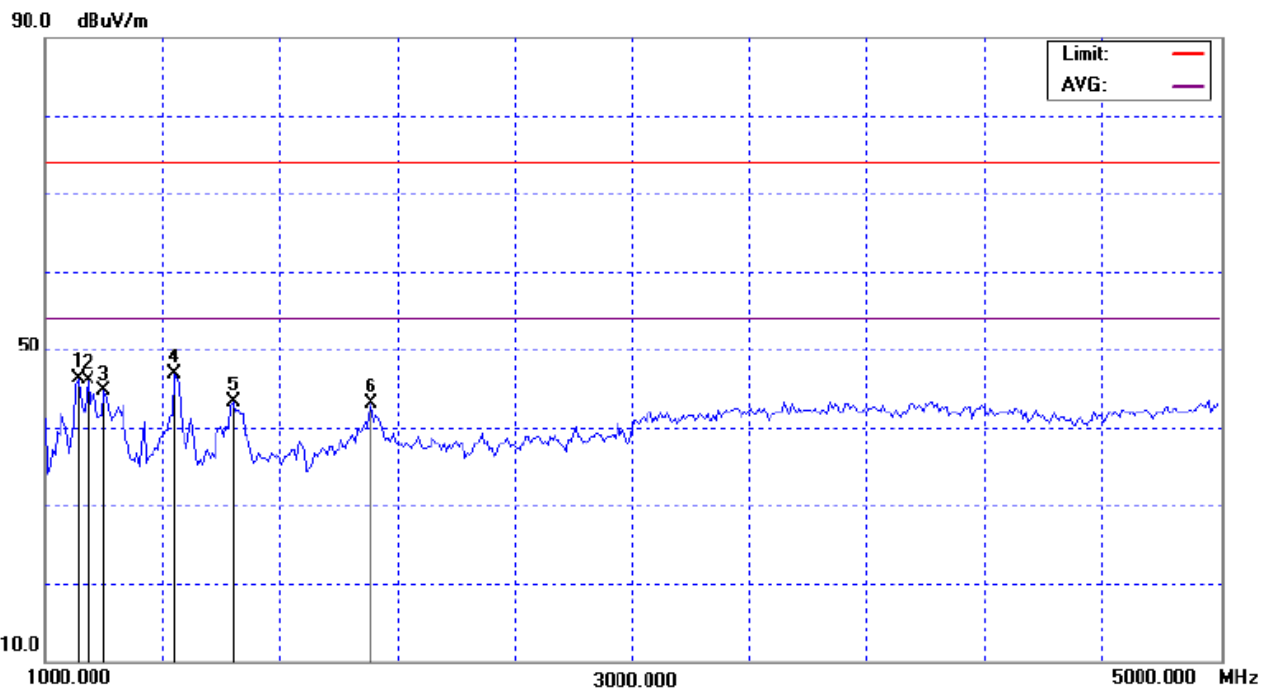


| | | | |
|---------------|-------------|---------------------|--------------|
| EUT : | IPC | Model No. : | POC-155 |
| Temperature : | 23 °C | Relative Humidity : | 68 % |
| Pressure : | 1014 hPa | Test Power : | AC 120V/60Hz |
| Test Mode : | FULL SYSTEM | | |

| Freq. (MHz) | Ant.Pol. (H/V) | Reading(dBuV) | | Ant./CF CF(dB) | Act.(dBuV/m) | | Limit(dBuV/m) | | Note |
|----------------|-------------------|---------------|----|-------------------|--------------|----|---------------|-------|------|
| | | Peak | AV | | Peak | AV | Peak | AV | |
| 1112.00 | H | 54.02 | - | -7.73 | 46.29 | - | 74.00 | 54.00 | |
| 1144.00 | H | 53.68 | - | -7.58 | 46.10 | - | 74.00 | 54.00 | |
| 1200.00 | H | 52.07 | - | -7.33 | 44.74 | - | 74.00 | 54.00 | |
| 1440.00 | H | 53.15 | - | -6.23 | 46.92 | - | 74.00 | 54.00 | |
| 1640.00 | H | 48.31 | - | -5.10 | 43.21 | - | 74.00 | 54.00 | |
| 2112.00 | H | 45.62 | - | -2.60 | 43.02 | - | 74.00 | 54.00 | |

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz ◦
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measure-ment didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz ◦
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not how in table ◦

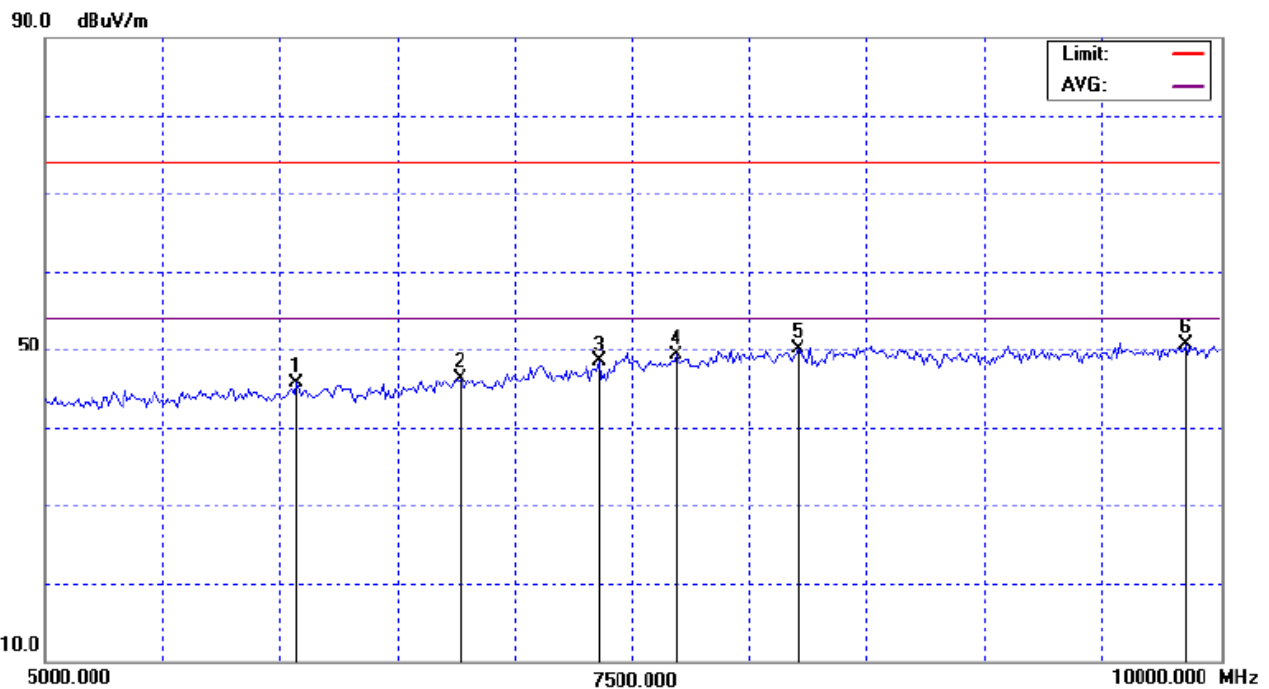


| | | | |
|---------------|-------------|---------------------|--------------|
| EUT : | IPC | Model No. : | POC-155 |
| Temperature : | 23 °C | Relative Humidity : | 68 % |
| Pressure : | 1014 hPa | Test Power : | AC 120V/60Hz |
| Test Mode : | FULL SYSTEM | | |

| Freq. (MHz) | Ant.Pol. (H/V) | Reading(dBuV) | | Ant./CF CF(dB) | Act.(dBuV/m) | | Limit(dBuV/m) | | Note |
|----------------|-------------------|---------------|----|-------------------|--------------|----|---------------|-------|------|
| | | Peak | AV | | Peak | AV | Peak | AV | |
| 6070.00 | H | 39.04 | - | 6.67 | 45.71 | - | 74.00 | 54.00 | |
| 6770.00 | H | 38.60 | - | 7.72 | 46.32 | - | 74.00 | 54.00 | |
| 7360.00 | H | 38.54 | - | 9.98 | 48.52 | - | 74.00 | 54.00 | |
| 7690.00 | H | 38.28 | - | 10.94 | 49.22 | - | 74.00 | 54.00 | |
| 8210.00 | H | 38.25 | - | 11.78 | 50.03 | - | 74.00 | 54.00 | |
| 9860.00 | H | 38.14 | - | 12.51 | 50.65 | - | 74.00 | 54.00 | |

Remark :

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz ◦
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz ◦
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not how in table ◦

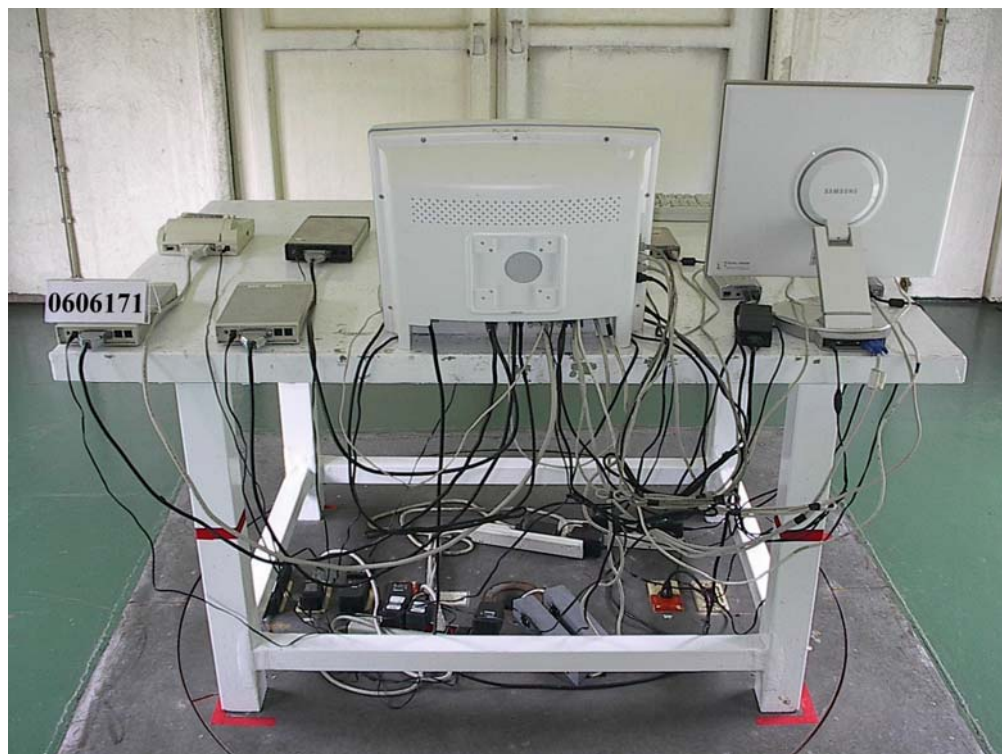


5. EUT TEST PHOTO

Conducted Measurement Photos



Radiated Measurement Photos (Between 30MHz and 1000 MHz)



Radiated Measurement Photos (Above 1000 MHz)

