



Test Report

Product Name : IP Sharing + Fast EtherSwitch For Cable/xDSL Modem

Model No. : CAS1040

FCC ID.: MQ4CAS1040

Applicant : AboCom Systems Inc.

Address : 1F, No. 21, R & D Road II, Science-Based
Industrial Park, Hsin-Chu, Taiwan, R.O.C.

Date of Receipt : June 13, 2001

Date of Test : July 18, 2001

Report No. : 016H026FI

The Test Results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of Quietek Corporation.

This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Test Report Certification

Test Date : July 18, 2001

Report No. : 016H026FI



Accredited by NIST (NVLAP)
NVLAP Lab Code: 200347-0

Product Name : IP Sharing + Fast EtherSwitch For Cable/xDSL Modem
 Applicant : AboCom Systems Inc.
 Address : 1F, No. 21, R & D Road II, Science-Based Industrial Park, Hsin-Chu, Taiwan, R.O.C.
 Manufacturer : AboCom Systems Inc.
 Model No. : CAS1040
 FCC ID. : MQ4CAS1040
 Rated Voltage : AC 120V/60Hz
 Trade Name : AboCom
 Measurement Standard : CISPR 22:1997
 Measurement Procedure : ANSI C63.4:1992
 Classification : Class B
 Test Result : Complied



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 (Gene Chang)

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Attachment 1: EUT Test Photographs

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Reference : Laboratory of License

1. GENERAL INFORMATION

1.1. EUT Description

Product Name : IP Sharing + Fast EtherSwitch For Cable/xDSL Modem
Trade Name : AboCom
FCC ID. : MQ4CAS1040
Model No. : CAS1040
Power Adapter : DVE, DSA-0151A-05A
Cable Out: Non-shielded, 1.8m

Note:

1. This EUT is a IP Sharing + Fast EtherSwitch For Cable/xDSL Modem.
2. Quietek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

| | |
|----------------|-----------------------------------|
| Conducted Test | Mode 1: 10Mbps Mode 2: 100Mbps |
| Radiated Test | Mode 1: 10Mbps Mode 2: 100Mbps |

1.2. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

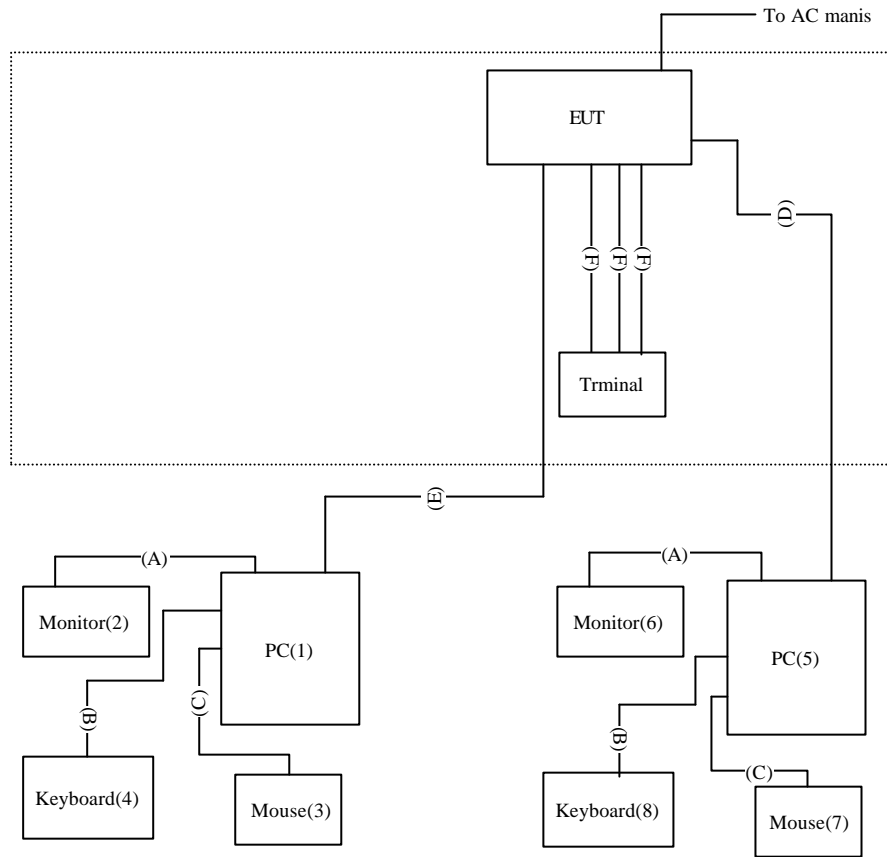
| | Product | Manufacturer | Model No. | Serial No. | FCC ID |
|-----|----------|--------------|---------------|--------------------|--------|
| (1) | PC | PC | ASUS | P2L97 | DoC |
| (2) | Monitor | VIEWSONIC | VCDTS21490-1P | ERO1502850 | DoC |
| (3) | Mouse | Logitech | M-S35 | LZA75102600 | -- |
| (4) | Keyboard | ACER | 6311-TW4C | 916590704C91F24343 | -- |
| (5) | PC | IBM | 16W | BNL676N | DoC |
| (6) | Monitor | VIEWSONIC | VCDTS21490-1P | ERO1502869 | DoC |
| (7) | Mouse | Logitech | M-S34 | LZA82356473 | -- |
| (8) | Keyboard | ACER | 6311-TW4C | 916590704C91F24437 | -- |

Note:

1. The power cord of The device. (1)、(2) 、(5)、(6)are Non-shielded power cord.

| | Signal Cable Type | Signal cable Description |
|----|----------------------|---------------------------------------|
| A. | VGA Cable*2 Pcs | Shielded, 1.6m, a ferrite core bonded |
| B. | Keyboard Cable*2 Pcs | Shielded, 1.8m |
| C. | Mouse Cable*2 Pcs | Shielded, 1.8m |
| D. | LAN Cable*1 Pc | Non-shielded, 3.0m |
| E. | LAN Cable*1 Pc | Non-shielded, 3.0m |
| F. | LAN Cable*3Pcs | Non-shielded, 3.0m |

1.3. Configuration of tested System



1.4. EUT Exercise Software

- (1) Setup the EUT and simulators as shown on 1.3
- (2) Turn on the power of all equipment.
- (3) Boot the PC from Hard Disk.
- (4) Data will communicate between partner personal computer and partner personal computer through EUT.
- (5) The partner personal computer and partner personal computer monitors' will show the transmitting and receiving characteristics when the communication is success.
- (6) Repeat the above procedure 1.4.4 to 1.4.5

1.5. Test Facility

Ambient conditions in the laboratory:

| Items | Required (IEC 68-1) | Actual |
|----------------------------|---------------------|----------|
| Temperature (°C) | 15-35 | 20-35 |
| Humidity (%RH) | 25-75 | 50-65 |
| Barometric pressure (mbar) | 860-1060 | 950-1000 |

Site Description: November 3, 1998 File on
 Federal Communications Commission
 FCC Engineering Laboratory
 7435 Oakland Mills Road
 Columbia, MD 21046
 Reference 31040/SIT1300F2
 September 30, 1998 Accreditation on NVLAP
 NVLAP Lab Code: 200347-0



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2. Conducted Emission

2.1. Test Equipment List

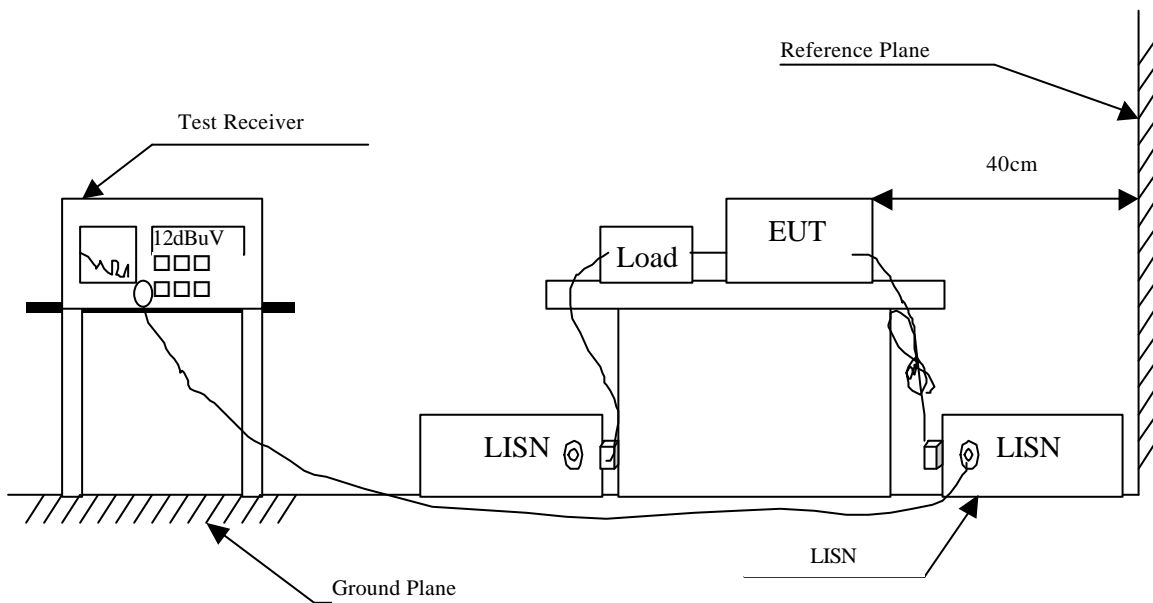
The following test equipment are used during the conducted emission test:

| Item | Instrument | Manufacturer | Type No./Serial No | Last Cal.. | Remark |
|------|--------------------|--------------|--------------------|------------|-------------|
| 1 | Test Receiver | R & S | ESCS 30/825442/17 | May, 2001 | |
| 2 | L.I.S.N. | R & S | ESH3-Z5/825016/6 | May, 2001 | EUT |
| 3 | L.I.S.N. | Kyoritsu | KNW-407/8-1420-3 | May, 2001 | Peripherals |
| 4 | Pulse Limiter | R & S | ESH3-Z2 | N/A | |
| 5 | N0.2 Shielded Room | | | N/A | |

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.2. Test Setup

S



2.3. Limits

| CISPR 22 Limits (dBuV) | | | | |
|-------------------------------|---------|----|---------|-------|
| Frequency MHz | Class A | | Class B | |
| | QP | AV | QP | AV |
| 0.15 - 0.50 | 79 | 66 | 66-56 | 56-46 |
| 0.50-5.0 | 73 | 60 | 56 | 46 |
| 5.0 - 30 | 73 | 60 | 60 | 50 |

Remarks : In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). 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. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. 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.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Test Result

The emission from the EUT was below the specified limits. The worst-case emissions are shown in section 5. The acceptance criterion was met and the EUT passed the test.

3. Radiated Emission

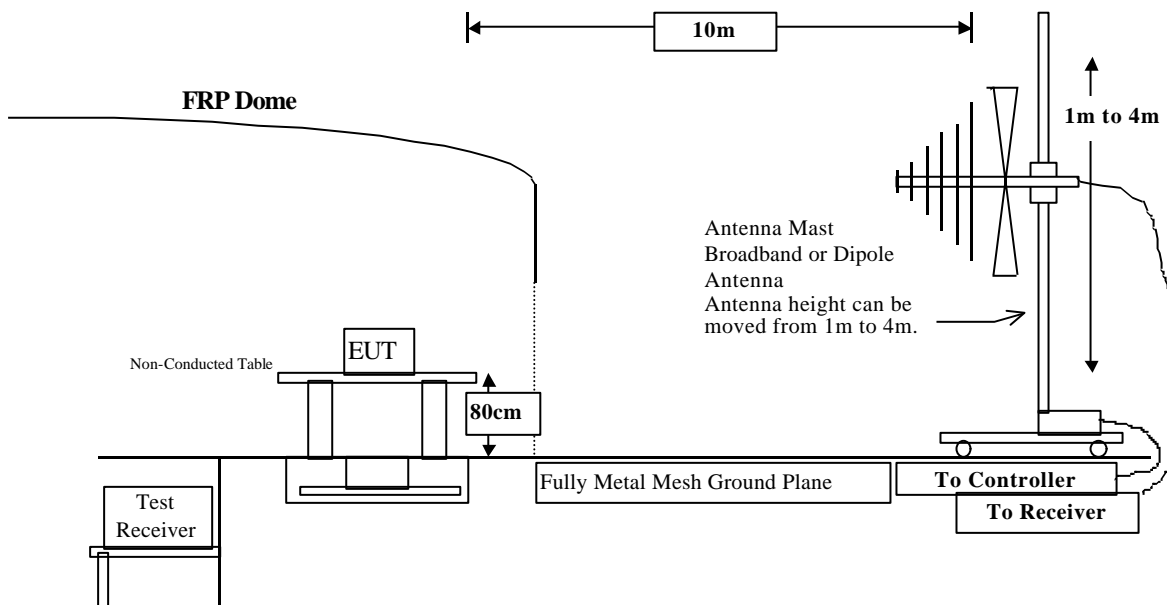
3.1. Test Equipment

The following test equipment are used during the radiated emission test:

| Test Site | | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|-----------|---|-------------------|--------------|----------------------|------------|
| Site # 1 | X | Test Receiver | R & S | ESCS 30 / 825442/14 | May, 2001 |
| | | Spectrum Analyzer | Advantest | R3261C / 71720140 | May, 2001 |
| | | Pre-Amplifier | HP | 8447D/3307A01812 | May, 2001 |
| | X | Bilog Antenna | Chase | CBL6112B / 12452 | Sep., 2000 |
| | X | Horn Antenna | EM | EM6917 / 103325 | May, 2001 |
| Site # 2 | X | Test Receiver | R & S | ESCS 30 / 825442/17 | May, 2001 |
| | | Spectrum Analyzer | Advantest | R3261C / 71720609 | May, 2001 |
| | | Pre-Amplifier | HP | 8447D/3307A01814 | May, 2001 |
| | X | Bilog Antenna | Chase | CBL6112B / 2455 | Sep., 2000 |
| | X | Horn Antenna | EM | EM6917 / 103325 | May, 2001 |

- Note:
1. All equipments that need to calibrate are with calibration period of 1 year.
 2. Mark "X" test instruments are used to measure the final test results.

3.2. Test Setup



3.3. Limits

| CISPR 22 Limits (dBuV) | | | | |
|-------------------------------|--------------|--------|--------------|--------|
| Frequency MHz | Class A | | Class B | |
| | Distance (m) | dBuV/m | Distance (m) | dBuV/m |
| 30 – 230 | 10 | 40 | 10 | 30 |
| 230 – 1000 | 10 | 47 | 10 | 37 |

- Remark:
1. The tighter limit shall apply at the edge between two frequency bands.
 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.
 3. RF Line Voltage (dBuV/m) = 20 log RF Line Voltage (uV/m)

3.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 10 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4:1992 on radiated measurement.

Radiated emissions were investigated over the frequency range from 30MHz to 1GHz using a receiver bandwidth of 120kHz. Radiated was performed at an antenna to EUT distance of 10 meters.

3.5. Test Result

The emission from the EUT was below the specified limits. The worst-case emissions are shown in section 5. The acceptance criterion was met and the EUT passed the test.

4. EMI Reduction Method During Compliance Testing

No modification was made during testing.

5. Summary of Test Datas

The test results in the emission was performed according to the requirements of measurement standard and process. Quietek Corporation is assumed full responsibility for the accuracy and completeness of these measurements. The test data of the emission is listed as below.

All the tests were carried out with the EUT in normal operation, which was defined as:

Test Mode:

| | |
|----------------|-----------------|
| Conducted Test | Mode 1: 10Mbps |
| | Mode 2: 100Mbps |
| Radiated Test | Mode 1: 10Mbps |
| | Mode 2: 100Mbps |

5.1. Test Data of Conducted Emission

Product : IP Sharing + Fast EtherSwitch For Cable/xDSL Modem
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 1: 10Mbps

| Frequency MHz | Cable Loss dB | LISN Factor dB | Reading Level dBuV | Measurement Level dBuV | Limits dBuV |
|------------------|---------------------|----------------------|--------------------------|------------------------------|----------------|
| ===== | | | | | |
| Quasi-Peak | | | | | |
| * 0.216 | 0.02 | 0.10 | 48.73 | 48.85 | 62.99 |
| 0.582 | 0.07 | 0.10 | 36.71 | 36.88 | 56.00 |
| 2.455 | 0.16 | 0.14 | 35.82 | 36.12 | 56.00 |
| 4.308 | 0.19 | 0.16 | 30.05 | 30.40 | 56.00 |
| 20.000 | 0.35 | 0.45 | 38.29 | 39.10 | 60.00 |
| 29.084 | 0.40 | 0.59 | 38.52 | 39.50 | 60.00 |
| Average | | | | | |
| 0.216 | 0.02 | 0.10 | 34.10 | 34.22 | 52.97 |
| 0.582 | 0.07 | 0.10 | 20.50 | 20.67 | 46.00 |
| 2.455 | 0.16 | 0.14 | 19.80 | 20.10 | 46.00 |
| 4.308 | 0.19 | 0.16 | 18.60 | 18.95 | 46.00 |
| 20.000 | 0.35 | 0.45 | 33.70 | 34.51 | 50.00 |
| 29.084 | 0.40 | 0.59 | 22.80 | 23.78 | 50.00 |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable loss.

Product : IP Sharing + Fast EtherSwitch For Cable/xDSL Modem
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 1: 10Mbps

| Frequency | Cable Loss | LISN Factor | Reading Level | Measurement Level | Limits |
|------------|------------|-------------|---------------|-------------------|--------|
| MHz | dB | dB | dBuV | dBuV | dBuV |
| ===== | | | | | |
| Quasi-Peak | | | | | |
| * 0.222 | 0.02 | 0.10 | 50.05 | 50.17 | 62.76 |
| 0.524 | 0.07 | 0.10 | 37.64 | 37.81 | 56.00 |
| 2.317 | 0.15 | 0.14 | 37.05 | 37.34 | 56.00 |
| 10.913 | 0.29 | 0.23 | 41.04 | 41.56 | 60.00 |
| 14.572 | 0.32 | 0.34 | 37.85 | 38.51 | 60.00 |
| 29.087 | 0.40 | 0.59 | 40.92 | 41.90 | 60.00 |
| Average | | | | | |
| 0.222 | 0.02 | 0.10 | 36.40 | 36.52 | 52.74 |
| 0.524 | 0.07 | 0.10 | 16.30 | 16.47 | 46.00 |
| 2.317 | 0.15 | 0.14 | 20.00 | 20.29 | 46.00 |
| 10.913 | 0.29 | 0.23 | 23.90 | 24.42 | 50.00 |
| 14.572 | 0.32 | 0.34 | 22.10 | 22.76 | 50.00 |
| 29.087 | 0.40 | 0.59 | 25.30 | 26.28 | 50.00 |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable loss.

Product : IP Sharing + Fast EtherSwitch For Cable/xDSL Modem
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 2: 100Mbps

| Frequency | Cable Loss | LISN Factor | Reading Level | Measurement Level | Limits |
|------------|------------|-------------|---------------|-------------------|--------|
| MHz | dB | dB | dBuV | dBuV | dBuV |
| ===== | | | | | |
| Quasi-Peak | | | | | |
| * 0.202 | 0.02 | 0.10 | 51.09 | 51.21 | 63.55 |
| 0.548 | 0.07 | 0.10 | 38.02 | 38.19 | 56.00 |
| 0.988 | 0.10 | 0.10 | 37.01 | 37.21 | 56.00 |
| 2.374 | 0.15 | 0.14 | 35.33 | 35.62 | 56.00 |
| 10.914 | 0.29 | 0.23 | 33.51 | 34.03 | 60.00 |
| 28.926 | 0.40 | 0.58 | 28.72 | 29.70 | 60.00 |
| Average | | | | | |
| 0.202 | 0.02 | 0.10 | 36.80 | 36.92 | 53.53 |
| 0.548 | 0.07 | 0.10 | 24.50 | 24.67 | 46.00 |
| 0.988 | 0.10 | 0.10 | 19.20 | 19.40 | 46.00 |
| 2.374 | 0.15 | 0.14 | 18.00 | 18.29 | 46.00 |
| 10.914 | 0.29 | 0.23 | 19.10 | 19.62 | 50.00 |
| 28.926 | 0.40 | 0.58 | 22.90 | 23.88 | 50.00 |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable loss.

Product : IP Sharing + Fast EtherSwitch For Cable/xDSL Modem
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 2: 100Mbps

| Frequency | Cable Loss | LISN Factor | Reading Level | Measurement Level | Limits |
|------------|------------|-------------|---------------|-------------------|--------|
| MHz | dB | dB | dBuV | dBuV | dBuV |
| ===== | | | | | |
| Quasi-Peak | | | | | |
| * 0.203 | 0.02 | 0.10 | 51.77 | 51.89 | 63.48 |
| 0.512 | 0.06 | 0.10 | 38.46 | 38.62 | 56.00 |
| 2.496 | 0.16 | 0.14 | 34.66 | 34.96 | 56.00 |
| 3.660 | 0.18 | 0.16 | 38.59 | 38.93 | 56.00 |
| 18.172 | 0.34 | 0.42 | 41.69 | 42.45 | 60.00 |
| 29.004 | 0.40 | 0.59 | 40.50 | 41.48 | 60.00 |
| Average | | | | | |
| 0.203 | 0.02 | 0.10 | 37.80 | 37.92 | 53.49 |
| 0.512 | 0.06 | 0.10 | 19.50 | 19.66 | 46.00 |
| 2.496 | 0.16 | 0.14 | 17.90 | 18.20 | 46.00 |
| 3.660 | 0.18 | 0.16 | 24.90 | 25.24 | 46.00 |
| 18.172 | 0.34 | 0.42 | 23.70 | 24.46 | 50.00 |
| 29.004 | 0.40 | 0.59 | 25.70 | 26.68 | 50.00 |

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + LISN Factor + Cable loss.

5.2. Test Data of Radiated Emission

Product : IP Sharing + Fast EtherSwitch For Cable/xDSL Modem
 Test Item : Radiated Emission
 Test Site : No.1 OATS
 Test Mode : Mode 1:10Mbps

| Freq. | Cable Loss | Probe Factor | PreAMP | Reading Level | Emission Level | Margin | Limit |
|-------|------------|--------------|--------|---------------|----------------|--------|--------|
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dB | dBuV/m |

=====

Horizontal

| | | | | | | | |
|----------|------|-------|------|-------|-------|-------|-------|
| 56.100 | 1.40 | 5.73 | 0.00 | 9.25 | 16.38 | 13.62 | 30.00 |
| 79.745 | 1.63 | 8.10 | 0.00 | 13.06 | 22.78 | 7.22 | 30.00 |
| 159.992 | 2.40 | 10.32 | 0.00 | 8.58 | 21.30 | 8.70 | 30.00 |
| 200.000 | 2.78 | 9.30 | 0.00 | 7.48 | 19.56 | 10.44 | 30.00 |
| 250.000 | 3.27 | 12.61 | 0.00 | 15.02 | 30.90 | 6.10 | 37.00 |
| 374.995 | 4.14 | 15.00 | 0.00 | 5.48 | 24.62 | 12.38 | 37.00 |
| 415.258 | 4.35 | 16.47 | 0.00 | 5.15 | 25.98 | 11.02 | 37.00 |
| 499.992 | 4.79 | 17.34 | 0.00 | 5.79 | 27.92 | 9.08 | 37.00 |
| *675.247 | 5.71 | 19.11 | 0.00 | 8.09 | 32.90 | 4.10 | 37.00 |

Vertical

| | | | | | | | |
|----------|------|-------|------|-------|-------|-------|-------|
| * 32.408 | 1.17 | 17.49 | 0.00 | 10.40 | 29.06 | 0.94 | 30.00 |
| 47.798 | 1.32 | 8.93 | 0.00 | 14.91 | 25.16 | 4.84 | 30.00 |
| 62.998 | 1.47 | 6.38 | 0.00 | 10.48 | 18.33 | 11.67 | 30.00 |
| 108.537 | 1.91 | 11.15 | 0.00 | 7.29 | 20.34 | 9.66 | 30.00 |
| 145.258 | 2.26 | 10.92 | 0.00 | 12.45 | 25.63 | 4.37 | 30.00 |
| 155.635 | 2.35 | 10.29 | 0.00 | 13.50 | 26.14 | 3.86 | 30.00 |
| 163.943 | 2.44 | 9.77 | 0.00 | 11.54 | 23.75 | 6.25 | 30.00 |
| 200.000 | 2.78 | 9.07 | 0.00 | 11.30 | 23.16 | 6.84 | 30.00 |
| 250.000 | 3.27 | 12.26 | 0.00 | 16.34 | 31.87 | 5.13 | 37.00 |

Note:

1. All Reading Levels below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable loss.

Product : IP Sharing + Fast EtherSwitch For Cable/xDSL Modem
 Test Item : Radiated Emission
 Test Site : No.1 OATS
 Test Mode : Mode 2: 100Mbps

| Freq. | Cable Loss | Probe Factor | PreAMP | Reading Level | Emission Level | Margin | Limit |
|-------|------------|--------------|--------|---------------|----------------|--------|--------|
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dB | dBuV/m |

=====

Horizontal

| | | | | | | | |
|-----------|------|-------|------|-------|-------|-------|-------|
| 85.533 | 1.68 | 8.88 | 0.00 | 10.64 | 21.21 | 8.79 | 30.00 |
| 110.785 | 1.93 | 11.97 | 0.00 | 6.09 | 19.99 | 10.01 | 30.00 |
| 138.415 | 2.20 | 11.29 | 0.00 | 8.26 | 21.75 | 8.25 | 30.00 |
| 149.895 | 2.31 | 10.72 | 0.00 | 5.25 | 18.28 | 11.72 | 30.00 |
| 159.997 | 2.40 | 10.32 | 0.00 | 9.96 | 22.68 | 7.32 | 30.00 |
| 249.995 | 3.27 | 12.61 | 0.00 | 14.76 | 30.64 | 6.36 | 37.00 |
| 374.992 | 4.14 | 15.00 | 0.00 | 6.12 | 25.26 | 11.74 | 37.00 |
| 499.992 | 4.79 | 17.34 | 0.00 | 5.71 | 27.84 | 9.16 | 37.00 |
| * 675.253 | 5.71 | 19.11 | 0.00 | 8.69 | 33.50 | 3.50 | 37.00 |

Vertical

| | | | | | | | |
|----------|------|-------|------|-------|-------|------|-------|
| * 32.650 | 1.18 | 15.99 | 0.00 | 11.80 | 28.97 | 1.03 | 30.00 |
| 50.450 | 1.35 | 7.39 | 0.00 | 19.27 | 28.01 | 1.99 | 30.00 |
| 108.768 | 1.91 | 11.15 | 0.00 | 13.83 | 26.88 | 3.12 | 30.00 |
| 125.000 | 2.07 | 11.49 | 0.00 | 8.20 | 21.76 | 8.24 | 30.00 |
| 143.242 | 2.24 | 10.86 | 0.00 | 15.53 | 28.63 | 1.37 | 30.00 |
| 151.542 | 2.32 | 10.58 | 0.00 | 13.44 | 26.34 | 3.66 | 30.00 |
| 155.635 | 2.35 | 10.29 | 0.00 | 12.60 | 25.24 | 4.76 | 30.00 |
| 250.000 | 3.27 | 12.26 | 0.00 | 15.32 | 30.85 | 6.15 | 37.00 |

Note:

1. All Reading Levels below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor + Cable loss.

Attachment 1 : EUT Test Photographs

Attachment 2 : EUT Detailed Photographs