Date of Issue: January 09, 2008

FCC 47 CFR PART 15 SUBPART B

TEST REPORT

For

Mini ITX Board

Model: EMB-9458T-xxxxxxx

Trade Name: AAEON

Issued to

AAEON Technology Inc. 5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien City, Taipei, Taiwan, R.O.C.

Issued by

Compliance Certification Services Inc. Sindian BU



No. 163-1, Chunghsen Road, Hsintien City Taipei Hsien, Taiwan

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1 TEST RESULT CERTIFICATION

Applicant: AAEON Technology Inc.

5F, No.135, Lane 235, Pao Chiao Rd., Hsin-Tien City,

Date of Issue: January 09, 2008

Taipei, Taiwan, R.O.C.

Manufacturer: AAEON Technology Inc.

5F, No.135, Lane 235, Pao Chiao Rd., Hsin-Tien City,

Taipei, Taiwan, R.O.C.

Equipment Under Test: Mini ITX Board

Trade Name: AAEON

Model: EMB-9458T-xxxxxxx(Where x is 0-9, A-Z, - or blank)

Detailed EUT Description: See Item 2 of this report

Date of Test: January 02, 2008

Applicable Standard	Class / Limit	Test Result		
FCC Part 15 Subpart B IC ICES-003	Class A	No non-compliance noted		
Deviation from Applicable Standard				
None				

The above equipment was tested by Compliance Certification Services Inc. for compliance with the requirements set forth in the FCC Rules and Regulations Part 15, Subpart B and the measurement procedures were according to ANSI C63.4. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

Approved by:

Reviewed by:

David Wang

Manager of Sindian BU

Compliance Certification Services Inc.

Vince Chiang

Assistant Manager of Sindian BU Compliance Certification Services Inc.

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2 EUT DESCRIPTION

Product	Mini ITX Board
Trade Name	AAEON
Model	EMB-9458T-xxxxxxx(Where x is 0-9, A-Z, or blank)
Housing Type	N/A
EUT Power Rating	3.3VDC/5VDC/12VDC
AC Power During Test	120VAC / 60Hz
Power Supply Manufacturer	Seventeam
Power Supply Model Number	ST-300HLP
OSC/Clock Frequencies	14.31818MHz; 25MHz; 32.768kHz

I/O PORT OF EUT

I/O PORT TYPE	Q'TY	TESTED WITH
1). PIO Port	1	1
2). SIO Port	5	5
3). PS/2 Keyboard Port	1	1
4). PS/2 Mouse Port	1	1
5). Video-Out Port (VGA)	1	1
6). Video-Out Port (DVI)	1	1
7). Audio In Port	1	1
8). Earphone Port	1	1
9). Microphone Port	1	1
10). LAN Port	2	2
11). USB 2.0 Port	8	8

Note: Client consigns only one model sample (Model Number is EMB-9458T) to test.

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3 TEST METHODOLOGY

3.1 EUT SYSTEM OPERATION

- 1. Windows XP boots system.
- 2. Run Emctest.exe to activate all peripherals and display "H" pattern on monitor screen.
- 3. Run Windows media player to play music.
- 4. Run Winemc.exe then select 'F:/ & G:/ & H:/ & I:/ & J:/ & K:/ & L:/ & M:/" to test EUT.

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- 5. Press the start menu, select executive and type ping 192.168.0.2–t (EUT), ping 192.168.0.1 –t (Server PC).
- 6. Press the start menu, select executive and type ping 192.168.0.3–t (EUT), ping 192.168.0.4 –t (Server PC).

Note: Test program is self-repeating throughout the test.

3.2 DECISION OF FINAL TEST MODE

1. The following test mode were scanned during the preliminary test:

Conduction Mode:

1 NORMAL MODE

Radiation Mode:

1 NORMAL MODE
NORMAL MODE / 1-9.3GHz

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

Conduction: Mode 1 **Radiation:** Mode 1

Then, the EUT configuration and cable configuration of the above highest emission mode was recorded for all final test items.

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4 SETUP OF EQUIPMENT UNDER TEST

Setup Diagram

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

Support Equipment

IPC Devices:

No	Equipment	Trade Name	Model #
1	CPU (1.86GHz)	Intel	Celeron M
2	Memory (1GB DDR2-533)	SEC	K4T510830C
3	Power Supply (I/P: 115-240~,8A,50-60Hz)	Seventeam	ST-300HLP
4	SATA Hard Disk (120GB)	Seagate	ST3120827AS

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Peripherals Devices:

No.	Equipment	Model No.	Serial No.	FCC ID / BSMI ID	Trade Name	Data Cable	Power Cord
1-4	USB HDD X4	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
5	PS/2 Mouse	M071KC	443029438	DOC BSMI: R41108	DELL	Shielded, 1.8m	N/A
6	PS/2 Keyboard	SK-8110	N/A	DOC BSMI: T3A002	DELL	Shielded, 1.8m	N/A
7-10	USB HDD X4	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
11	Player	RQ-L317	N/A	N/A	PANASONIC	Unshielded, 1.0m	N/A
12	Earphone & Microphone	MSB301	N/A	N/A	e-Sense	Unshielded, 1.7m	N/A
13	Printer	EPSON C60	DR3K039402	BSMI ID: 3902E006	EPSON	Shielded, 1.8m	Unshielded, 1.8m
14	Monitor	SyncMaster213T	N/A	DOC BSMI: R33475	SAMSUNG	Shielded, 1.8m with two cores	Unshielded, 1.8m
15	Monitor	710V	GS17H9NXA05864E	DOC BSMI: R33475	SAMAUNG	Shielded, 1.8m with two cores	Unshielded, 1.8m
16-18	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP - SOLUTION	Shielded, 1.8m	Unshielded, 1.8m
19-20	Modem	1414	N/A	IFAXDM1414	ACEEX	Shielded, 1.8m	Unshielded, 1.8m
21	Server PC	DCNE	CV8DH1S	BSMI: R33002	DELL	Unshielded, 20m	Unshielded, 1.8m
22	Server PC	DCNE	BV8DH1S	BSMI: R33002	DELL	Unshielded, 20m	Unshielded, 1.8m

Note: All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

Grounding: Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.

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5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at CCS Taiwan Sindian BU at No.163-1, Jhongsheng Rd., Sindian City, Taipei County 23151, Taiwan.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4 and CISPR 16-1-5.

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5.2 LABORATORY ACCREDITATIONS AND LISTINGS

The test facilities used to perform Electromagnetic compatibility tests are registered or accredited by the organizations listed in the following table which includes the recognized scope specifically.

This accredited organization maintains A2LA accreditation to ISO/IEC 17025 for the specific test listed in A2LA Certificate # 0824-01. The test results included in this report, however, are not covered by this accreditation.

Country	Agency	Scope of Accreditation	Logo
USA	A2LA	CFR 47, FCC Part 15/18; AS/NZS 3548; VCCI V3; CNS 13438; CNS 13439; CNS 13783; CNS 14115; CISPR 11/EN 55011; CISPR 14-1/EN 55014-1; CISPR 15/EN 55015; CISPR 22/EN 55022; EN 50081-1/EN 61000-6-3; EN 50082-1/EN 61000-6-4; IEC/EN 61000-4-2, IEC/EN 61000-4-3, IEC/EN 61000-4-4, IEC/EN 61000-4-5, IEC/EN 61000-4-6, IEC/EN 61000-4-8, IEC/EN 61000-4-11, IEC/EN 61000-3-2, IEC/EN 61000-3-3; CISPR 24/EN 55024; CISPR 14-2/EN 55014-2; EN 50081-2/EN 61000-6-1; EN 50082-2/EN 61000-6-2.	
USA	FCC	3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements	FC 250366
Japan	VCCI	3/10 meter Open Area Test Sites and Line Conducted Test Room to perform conducted/radiated measurements	VCCI R-2265/1630~4 C-1882/2146
Norway	NEMKO	EN 50081-1/2, EN 50082-1/2, IEC 61000-6-1/2/3/4, EN 50091-2, EN 50130-4, EN 55011, EN 55013, EN 55014-1/2, EN 55015, EN 55022, EN 55024, EN 61000-3-2/3, EN 61326-1, IEC 61000-4-2/3/4/5/6/8/11, Cispr 16-1/2/3/4	N ELA 103
Taiwan	CNLA	47 CFR FCC Part 15 Subpart B, EN 61000-3-2, EN 61000-3-3, CNS 13439, CNS 13783-1, CNS 13438, AS/NZS 3548, VCCI, CNS 13022-1/2/3, EN 55022, EN 55013, EN 55014-1, EN 61000-4-2/3/4/5/6/8/11, ENV 50204, ENV 50141, ENV 50142	Toring Luboratory 1108
Taiwan	BSMI	CNS 13438, CNS 13783-1, CNS 13439	SL2-IN-E-0005 SL2-A1-E-0005 SL2-R1-E-0005 SL2-R2-E-0005 SL2-R1-F-0008
Canada	Industry Canada	RSS212, Issue 1	Canada IC 5742

Note: No part of this report may be used to claim or imply product endorsement by CNLA, A2LA or other government agency.

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6 INSTRUMENT AND CALIBRATION

6.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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Measurement	Frequency	Uncertainty
Conducted emissions	9kHz~30MHz	± 1.7376
Radiated emissions	30MHz ~ 200MHz	± 3.8792
Kaulateu elliissiolis	200MHz ~1000MHz	± 3.8914

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Consistent with industry standard (e.g. CISPR 22: 2006, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than UCISPR which is 3.6dB and 5.2dB respectively. CCS values (called ULab in CISPR 16-4-2) is less than UCISPR as shown in the table above. Therefore, MU need not be considered for compliance.

6.2 MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

6.3 TEST AND MEASUREMENT EQUIPMENT

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4, CISPR 16-1-5, ANSI C63.2 and. other required standards.

Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective manual.

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Equipment Used for Emission Measurement

Open Area Test Site # I				
EQUIPMENT	MFR	MODEL	SERIAL NUMBER	CAL. DUE
SITENSA	CCS	I Site	N/A	09/28/2008
MEASURE RECEIVER	SCHAFFNER	SCR3501	338	07/03/2008
SPECTRUM ANALYZER	ADVANTEST	R3132	120900008	No Calibration Required
ANTENNA	SCHAFFNER	CBL 6112B	2809	09/21/2008
AMPLIFIER	SCHAFFNER	CPA9231A	3626	10/10/2008
CABLE	BELDEN	9913	N-TYPE #I2	02/25/2008
ATTENUATOR	MCL	UNAT-6	AT06-3	10/10/2008
THERMO- HYGRO METER	TFA	N/A	NO.2	12/03/2008
Test S/W	Test S/W LAB VIEW 7.1			
	Abo	ove 1GHz Used		
EMC ANALYZER (100Hz-22GHz)	НР	8566B	2937A06102	07/03/2008
ANTENNA (1-18GHz)	EMCO	3115	00022256	01/16/2008
AMPLIFIER (1-18GHz)	НР	8449B	3008A01266	02/11/2008
CABLE (1-18GHz)	JYEBAO	LL142	SMA#RS1	02/01/2008
CABLE (1-18GHz)	HUBER +SUHNER	SUCOFLEX 104	SMA#RS3	02/01/2008
CABLE (1-18GHz)	JYEBAO	LL142	SMA#C1	02/01/2008

Conducted Emission Test Site # A					
EQUIPMENT	MFR	MODEL	SERIAL NUMBER	CAL. DUE	
TEST RECEIVER	R&S	ESHS20	840455/006	02/12/2008	
LISN (EUT)	SCHWARZBECK	NSLK 8127	8127382	12/03/2008	
LISN	SOLAR	8012-50-R-24-BNC	8305114	12/03/2008	
BNC CABLE	Huber+Suhner	RG-223/U	BNC A 2	05/13/2008	
THERMO- HYGRO METER	TOP	HA-202	9303-1	02/04/2008	
Test S/W	EMI 32.exe				

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7 LINE CONDUCTED & RADIATED EMISSION TEST

7.1 LIMIT

Maximum permissible level of Line Conducted Emission

FREQUENCY	Class A (dBuV)		Class B (dBuV)	
(MHz)	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Note: The lower limit shall apply at the transition frequency.

Maximum permissible level of Radiated Emission measured at 10 meter

FREQUENCY	Class A (dBuV/m)	Class B (dBuV/m)
(MHz)	Quasi-peak	Quasi-peak
30 – 230	40	30
230 - 1000	47	37

Note: The lower limit shall apply at the transition frequency.

Maximum permissible level of Radiated Emission measured at 3 meter

FREQUENCY (MHz)	Class A (dBuV/m)	Class B (dBuV/m)		
	Average	Peak	Average	Peak	
Above 1000	59.3	79.3	53.9	73.9	

Note: The lower limit shall apply at the transition frequency.

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7.2 TEST PROCEDURE OF LINE CONDUCTED EMISSION

Procedure of Preliminary Test

• The EUT was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

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- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test system with EUT received AC power, 120V/60Hz, through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane.
- All support equipment received power from a second LISN.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a EMI Test Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to the Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Receiver.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.2 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.2 producing the highest emission level.
- The EUT configuration and cable configuration of the above highest emission level were recorded for reference of the final test.

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Procedure of Final Test

• EUT and support equipment were set up on the test bench as per step 10 of the preliminary test.

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- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the AV. limit in Q.P. mode, then the emission signal was re-checked using an AV. detector.
- The test data of the worst-case condition(s) was recorded.

Data Sample:

Freq. (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV)	Limit Line (dBuV)	Over Limit (dB)	Remark (P/Q/A)	Line (L1/L2)
x.xx	42.95	0.55	43.50	73	-29.50	Q	L1

Freq. = Emission frequency in MHz

Read Level = Uncorrected Analyzer/Receiver reading Factor = Insertion loss of LISN + Cable Loss

Level = Read Level + Factor Limit Line = Limit stated in standard Over Limit = Reading in reference to limit

P = Peak Reading

Q = Quasi-peak Reading A = Average Reading

L1 = Hot side L2 = Neutral side

Calculation Formula

Over Limit (dB) = Level (dBuV) – Limit Line (dBuV)

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7.3 TEST PROCEDURE OF RADIATED EMISSION

Procedure of Preliminary Test

• The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.

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- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC power source, 120V/60Hz, from the outlet socket under the turntable. All support equipment received power from another socket under the turntable.
- The antenna was placed at 10 meter away from the EUT as stated in ANSI C63.4. The
 antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier
 would be used.
- The Analyzer / Receiver quickly scanned from 30MHz to 9300MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- The test mode(s) described in Item 3.2 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.2 producing the highest emission level.
- The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

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Procedure of Final Test

• EUT and support equipment were set up on the turntable as per step 8 of the preliminary test.

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- The Analyzer / Receiver scanned from 30MHz to 9300MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Recorded at least the six highest emissions. Emission frequency, amplitude, antenna
 position, polarization and turntable position were recorded into a computer in which
 correction factors were used to calculate the emission level and compare reading to the
 applicable limit and only Q.P. reading is presented.
- The test data of the worst case condition(s) was recorded.

Data Sample:

Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector (P/Q/A)	Pol. (H/V)
X.XX	14.0	12.2	26.2	40	-13.8	Q	Н

Freq. = Emission frequency in MHz

Reading = Uncorrected Analyzer/Receiver reading

Factor = Antenna Factor + Cable Loss + Attenuator (3/6/10dB) - Amplifier Gain

Result = Uncorrected Analyzer/Receiver reading + Factor

Limit = Limit stated in standard
Margin = Reading in reference to limit

P = Peak Reading Q = Quasi-peak Reading A = Average Reading

H = Antenna Polarization: Horizontal V = Antenna Polarization: Vertical

Calculation Formula

Margin (dB) = Level (dBuV/m) – Limit (dBuV/m)

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7.4 TEST RESULTS

Line Conducted Emission

Model: EMB-9458T Test Mode: Mode 1

Temperature: 22°C **Humidity:** 56% RH

Test Results: Passed **Tested by:** Alex Pan

(The chart below shows the highest readings taken from the final data.)

Six Highest Conducted Emission Readings								
Frequency Range Investigated				150 kHz to 30 MHz				
Freq (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV)	Limit Line (dBuV)	Over Limit (dB)	Reading Type (P/Q/A)	Line (L1/L2)	
2.869	31.56	0.30	31.86	73.00	-41.14	P	L1	
4.549	29.96	0.40	30.36	73.00	-42.64	P	L1	
20.486	35.38	1.58	36.96	73.00	-36.04	P	L1	
3.258	42.86	0.35	43.21	73.00	-29.79	P	L2	
20.704	36.91	1.70	38.61	73.00	-34.39	P	L2	
26.278	43.56	1.94	45.50	73.00	-27.50	P	L2	

NOTE: The emission level was or more than 2dB below the Average limit, so no re-check anymore.

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Radiated Emission

Model: EMB-9458T Test Mode: Mode 1

Date of Issue: January 09, 2008

Temperature: 18°C **Humidity:** 55% RH

Test Results: Passed Tested by: John Yen

(The chart below shows the highest readings taken from the final data.)

Six Highest Radiated Emission Readings								
Frequency Range Investigated				30 MHz to 1000 MHz at 10m				
Freq (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Reading Type (P/Q/A)	Pol. (H/V)	
63.959	48.00	-16.38	31.62	40.00	-8.38	Q	V	
200.000	47.40	-11.55	35.85	40.00	-4.15	Q	\mathbf{V}	
223.220	44.23	-8.67	35.56	40.00	-4.44	Q	V	
62.774	47.76	-16.50	31.26	40.00	-8.74	Q	Н	
200.001	47.80	-11.55	36.25	40.00	-3.75	Q	H	
480.030	42.26	-2.56	39.70	47.00	-7.30	Q	H	

NOTE: 30MHz to 1000MHz test is Applicable CISPR 22 / EN 55022 standard.

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APPENDIX I - PHOTOGRAPHS OF TEST SETUP

CONDUCTED EMISSION TEST





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RADIATED EMISSION TEST





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