

EMC TEST REPORT

Report No. : ACS-E21141

Applicant : TPV Electronics (FuJian) Co., Ltd.
Rongqiao Economic and Technological Development
Zone, Fuqing City, Fujian Province, P.R. China

Product : LCD Monitor

Model No. : AG274Q; AG274QG; AG274Q*****
(* = 0-9, A-Z, a-z, +, -, /, \ or blank)

Brand : AOC

Test Lab. : Audix Technology (Shenzhen) Co., Ltd.
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Date of Test : Apr.20~May.07, 2021

Date of Report : May.17, 2021



TESTING

NVLAP LAB CODE 200372-0

TABLE OF CONTENTS

| Description | Page |
|---|-----------|
| TEST REPORT VERIFICATION..... | 5 |
| 1. SUMMARY OF STANDARDS AND RESULTS | 6 |
| 1.1. Description of Standards and Results..... | 6 |
| 2. GENERAL INFORMATION | 7 |
| 2.1. Description of Device (EUT) | 7 |
| 2.2. Tested Supporting System Details..... | 8 |
| 2.3. Block Diagram of connection between EUT and simulators | 9 |
| 2.4. Test Facility..... | 10 |
| 2.5. Measurement Uncertainty (95% confidence levels, k=2) | 10 |
| 3. CONDUCTED EMISSION AT MAINS TERMINALS TEST | 11 |
| 3.1. Test Equipments | 11 |
| 3.2. Block Diagram of Test Setup | 11 |
| 3.3. Test Standard..... | 11 |
| 3.4. Power Line Conducted Emission at Mains Terminals Class B Limit | 11 |
| 3.5. EUT Configuration on Test..... | 12 |
| 3.6. Operating Condition of EUT | 12 |
| 3.7. Test Procedure..... | 12 |
| 3.8. Conducted Emission at Mains Terminals Test Results | 13 |
| 4. RADIATED EMISSION MEASUREMENT | 19 |
| 4.1. Test Equipments | 19 |
| 4.2. Block Diagram of Test Setup | 20 |
| 4.3. Test Standard..... | 21 |
| 4.4. Radiated Emission Class B Limit..... | 21 |
| 4.5. EUT Configuration on Test..... | 21 |
| 4.6. Operating Condition of EUT | 21 |
| 4.7. Test Procedure..... | 21 |
| 4.8. Radiated Emission Test Results | 22 |
| 5. HARMONIC CURRENT TEST | 35 |
| 5.1. Test Equipments | 35 |
| 5.2. Block Diagram of Test Setup | 35 |
| 5.3. Test Standard..... | 35 |
| 5.4. Limits of Harmonic Current | 35 |
| 5.5. EUT Configuration on Test..... | 36 |
| 5.6. Operating Condition of EUT | 36 |
| 5.7. Test Procedure..... | 36 |
| 5.8. Test Results | 36 |
| 6. VOLTAGE FLUCTUATIONS & FLICKER TEST | 49 |
| 6.1. Test Equipment..... | 49 |
| 6.2. Block Diagram of Test Setup | 49 |
| 6.3. Test Standard..... | 49 |
| 6.4. Limits of Voltage Fluctuation and Flick | 49 |
| 6.5. EUT Configuration on Test..... | 49 |
| 6.6. Operating Condition of EUT | 49 |
| 6.7. Test Procedure..... | 49 |
| 6.8. Test Results | 49 |
| 7. IMMUNITY PERFORMANCE CRITERIA | 52 |
| 8. ELECTROSTATIC DISCHARGE IMMUNITY TEST..... | 53 |
| 8.1. Test Equipments | 53 |
| 8.2. Block Diagram of Test Setup | 53 |

| | | |
|------------|--|-----------|
| 8.3. | Test Standard | 53 |
| 8.4. | Severity Levels and Performance Criterion..... | 53 |
| 8.5. | EUT Configuration..... | 54 |
| 8.6. | Operating Condition of EUT | 54 |
| 8.7. | Test Procedure | 54 |
| 8.8. | Test Results | 54 |
| 8.9. | ESD Test Point Photos | 56 |
| 9. | RF FIELD STRENGTH SUSCEPTIBILITY TEST | 58 |
| 9.1. | Test Equipments | 58 |
| 9.2. | Block Diagram of Test Setup | 59 |
| 9.3. | Test Standard..... | 59 |
| 9.4. | Severity Levels and Performance Criterion..... | 60 |
| 9.5. | EUT Configuration..... | 60 |
| 9.6. | Operating Condition of EUT | 60 |
| 9.7. | Test Procedure | 60 |
| 9.8. | Test Results | 60 |
| 10. | ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST | 62 |
| 10.1. | Test Equipments | 62 |
| 10.2. | Block Diagram of Test Setup | 62 |
| 10.3. | Test Standard..... | 62 |
| 10.4. | Severity Levels and Performance Criterion..... | 62 |
| 10.5. | EUT Configuration..... | 63 |
| 10.6. | Operating Condition of EUT | 63 |
| 10.7. | Test Procedure | 63 |
| 10.8. | Test Results | 63 |
| 11. | SURGE TEST | 65 |
| 11.1. | Test Equipments | 65 |
| 11.2. | Block Diagram of Test Setup | 65 |
| 11.3. | Test Standard..... | 65 |
| 11.4. | Severity Levels and Performance Criterion..... | 65 |
| 11.5. | EUT Configuration..... | 65 |
| 11.6. | Operating Condition of EUT | 66 |
| 11.7. | Test Procedure | 66 |
| 11.8. | Test Results | 66 |
| 12. | CONTINUOUS CONDUCTED DISTURBANCE TEST | 68 |
| 12.1. | Test Equipments | 68 |
| 12.2. | Block Diagram of Test Setup | 68 |
| 12.3. | Test Standard..... | 68 |
| 12.4. | Severity Levels and Performance Criterion..... | 69 |
| 12.5. | EUT Configuration..... | 69 |
| 12.6. | Operating Condition of EUT | 69 |
| 12.7. | Test Procedure | 69 |
| 12.8. | Test Results | 69 |
| 13. | MAGNETIC FIELD IMMUNITY TEST..... | 71 |
| 13.1. | Test Equipment..... | 71 |
| 13.2. | Block Diagram of Test Setup | 71 |
| 13.3. | Test Standard..... | 71 |
| 13.4. | Severity Levels and Performance Criterion..... | 71 |
| 13.5. | EUT Configuration on Test..... | 72 |
| 13.6. | Operating Condition of EUT | 72 |
| 13.7. | Test Procedure | 72 |
| 13.8. | Test Results | 72 |
| 14. | VOLTAGE DIPS AND INTERRUPTIONS TEST | 74 |
| 14.1. | Test Equipment..... | 74 |
| 14.2. | Block Diagram of Test Setup | 74 |
| 14.3. | Test Standard..... | 74 |

| | | |
|------------|---|-----------|
| 14.4. | Severity Levels and Performance Criterion..... | 74 |
| 14.5. | EUT Configuration..... | 74 |
| 14.6. | Operating Condition of EUT..... | 75 |
| 14.7. | Test Procedure..... | 75 |
| 14.8. | Test Results..... | 75 |
| 15. | PHOTOGRAPHS | 77 |
| 15.1. | Photos of Power Line Conducted Emission Test..... | 77 |
| 15.2. | Photos of Radiated Emission Test (In 10m Anechoic Chamber)..... | 78 |
| 15.3. | Photo of Harmonic / Flicker Test..... | 80 |
| 15.4. | Photos of Electrostatic Discharge Immunity Test..... | 80 |
| 15.5. | Photo of RF Strength Susceptibility Test..... | 81 |
| 15.6. | Photos of Electrical Fast Transient/Burst Immunity Test..... | 82 |
| 15.7. | Photos of Surge Test..... | 83 |
| 15.8. | Photos of Continuous Conducted disturbance Test..... | 83 |
| 15.9. | Photo of Magnetic Field Test..... | 84 |
| 15.10. | Photo of Voltage Dips and interruptions test..... | 84 |

TEST REPORT VERIFICATION

Applicant : TPV Electronics (FuJian) Co., Ltd.
 Product : LCD Monitor
 Model No. : AG274Q; AG274QG; AG274Q*****(* = 0-9, A-Z, a-z, +, -, /, \ or blank)
 Brand : AOC
 Report No. : ACS-E21141
 Power Supply : AC 100-240V; 50/60Hz
 Test Voltage : AC 230V/50Hz; AC 110V/60Hz; AC 100V/50Hz
 Standards : EN 55032: 2015 / CISPR 32: 2015(Class B)
 EN 55032: 2015+AC: 2016/CISPR 32: 2015+cor1: 2016(Class B)
 EN 55032: 2015+A11: 2020(Class B)
 AS/NZS CISPR 32: 2015
 AS/NZS CISPR 32: 2015+A1: 2020
 BS EN 55032: 2015 (Class B)
 BS EN 55032: 2015+AC: 2016; BS EN 55032: 2015+A11: 2020
 EN 61000-3-2: 2014/ IEC 61000-3-2: 2014, Class D
 EN IEC 61000-3-2: 2019/IEC 61000-3-2: 2018, Class D
 BS EN 61000-3-2: 2014; BS EN IEC 61000-3-2: 2019
 EN 61000-3-3: 2013 /IEC 61000-3-3: 2013
 EN 61000-3-3: 2013+A1:2019 /IEC 61000-3-3: 2013+A1:2017
 BS EN 61000-3-3: 2013; BS EN 61000-3-3: 2013+A1:2019
 EN 55035: 2017 / CISPR 35: 2016; EN 55035: 2017+A11:2020
 BS EN 55035: 2017 / CISPR 35: 2016
 BS EN 55035: 2017+A11:2020
 (IEC 61000-4-2: 2008, IEC 61000-4-3: 2010, IEC 61000-4-4: 2012
 IEC 61000-4-5: 2014; IEC 61000-4-5: 2014+A1: 2017,
 IEC 61000-4-6: 2013; IEC 61000-4-8: 2009; IEC 61000-4-11: 2004
 IEC-61000-4-11: 2004+A1: 2017; IEC-61000-4-11: 2020)

The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Audix Technology (Shenzhen) Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the requirements of EN 55032, BS EN 55032, BS EN 61000-3-2, EN 61000-3-2, BS EN 61000-3-3, EN 61000-3-3 and BS EN 55035, EN 55035 standards.

This report applies to single evaluation of one sample of above mentioned products. This report shall not be reproduced in parts without written approval of Audix Technology (Shenzhen) Co., Ltd.

Date of Test : Apr.20-May.07, 2021 Report of date: May.17, 2021

Prepared by : Monica Liu / Assistant
 Reviewed by : Fire Zhang / Assistant Manager
 Audix Technology (Shenzhen) Co., Ltd.



Approved & Authorized Signer : Bensun Chen / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT has been tested according to the applicable standards as referenced below.

| EMISSION | | | | |
|--|---|---------|--|-------------|
| Description of Test Item | Standard | Results | Remark | |
| Conducted emission at mains terminals | EN 55032; BS EN 55032 | PASS | Minimum passing margin is 4.00dB at 0.573MHz | |
| Conducted emission at telecommunication port | EN 55032; BS EN 55032 | N/A | N/A | |
| Radiated emission (30-1000MHz) | EN 55032; BS EN 55032 | PASS | Minimum passing margin is 4.01dB at 110.510MHz | |
| Radiated emission (1-6GHz) | EN 55032; BS EN 55032 | PASS | Minimum passing margin is 12.86dB at 2832.848MHz | |
| Harmonic current emissions | EN 61000-3-2 EN IEC 61000-3-2 BS EN 61000-3-2 | PASS | Meets the Class D requirement | |
| Voltage fluctuations & flicker | EN 61000-3-3 BS EN 61000-3-3 | PASS | Meets the requirement | |
| IMMUNITY | | | | |
| Description of Test Item | Basic Standard | Results | Performance Criteria | Observation |
| Electrostatic discharge (ESD) | IEC 61000-4-2 | PASS | B | A & B |
| Radiated, radio-frequency, electromagnetic field immunity test | IEC 61000-4-3 | PASS | A | A |
| Electrical fast transient (EFT) | IEC 61000-4-4 | PASS | B | A & B |
| Surge (Input a.c. power port) | IEC 61000-4-5 | PASS | B | A&B |
| Surge(Telecommunication port) | | N/A | N/A | N/A |
| Surge (Coaxial or Shielding) | | N/A | N/A | N/A |
| Continuous Conducted disturbance | IEC 61000-4-6 | PASS | A | A |
| Power frequency magnetic field | IEC 61000-4-8 | PASS | A | A |
| Voltage dips, >95% reduction | IEC 61000-4-11 | PASS | B | A |
| Voltage dips, 30% reduction | | PASS | C | A & C |
| Voltage interruptions | | PASS | C | C |

N/A is an abbreviation for Not Applicable.

2. GENERAL INFORMATION

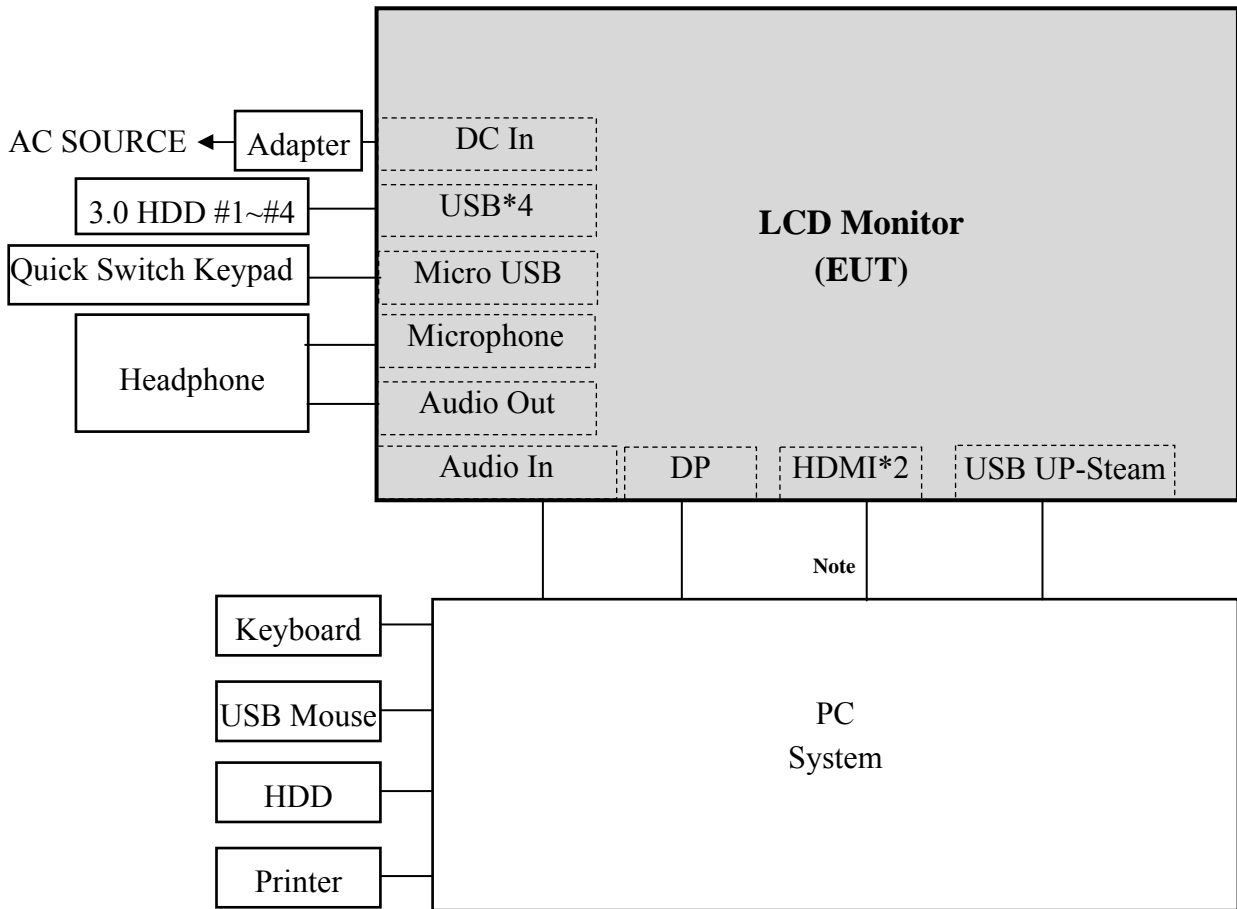
2.1. Description of Device (EUT)

| | |
|---------------------|--|
| Product | : LCD Monitor |
| Model No. | : AG274Q; AG274QG; AG274Q***** (* = 0-9, A-Z, a-z, +, -, /, \ or blank) Model differences (Declared by the Applicant): Above all modes difference are in sale marketing. |
| Brand | : AOC |
| Applicant | : TPV Electronics (FuJian) Co., Ltd. Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province, P.R. China |
| Max. Resolution | : 2560*1440@144Hz |
| Max. Work Frequency | : 1060MHz |
| I/O Port | : (1) One DC In Port (2) Two HDMI Ports (3) One DP Port (4) One Audio in Port (5) One Audio Out Port (6) One USB Up-stream Port (7) Four USB Down-stream Ports (8) Micro USB Port (9) MIC Port |
| Adapter#1 | : Manufacturer: FSP GROUP INC Model: FSP230-AJAN3 INPUT:100-240V~3A, 50-60Hz OUTPUT:230.0W, 19.5V _— 1.79A DC Cable: Shielded, Undetachable,1.8m (with one core) |
| Adapter#2 | : Manufacturer: DELTA Model: ADP-230JB D INPUT:100-240V~3.5A, 50-60Hz OUTPUT:230.1W, 19.5V _— 11.8A DC Cable: Shielded, Undetachable,1.8m (with two cores) |
| Quick Switch Keypad | Unshielded, Detachable, 1.8m/1.5m |
| Power Cord | : Unshielded, Detachable, 1.8m/1.5m(3 pins) |
| DP Cable | : Shielded, Detachable, 1.8m/1.5m |
| HDMI Cable | : Shielded, Detachable, 1.8m /1.5m |
| USB3.0 Cable | : Shielded, Detachable, 1.8m /1.5m |
| Audio Cable | : Shielded, Detachable, 1.8m /1.5m |
| Date of Test | : Apr.20~May.07, 2021 |
| Date of Receipt | : Apr.28, 2021 |
| Sample Type | : Prototype production |

2.2. Tested Supporting System Details

| No. | Description | ACS No. | Manufacturer | Model | Serial Number |
|-----|--|---|--------------|---------------------------|----------------------------------|
| 1. | Personal Computer | Test PC Q | acer | Veriton T630 | DTVMKCN005609 00F629600 |
| | | Power Cord(3C): Unshielded, Detachable, 1.8m | | | |
| 2. | Personal Computer (Only for RE&CE Test) | Test PC Y | Dell | Dell Precision Tower 5810 | 50P79K2 |
| | | Power Cord(3C): Unshielded, Detachable, 1.8m | | | |
| 3. | USB Keyboard | ACS-EMC-K03R | DELL | SK-8120 | CN-ODJ365-71616- 2BE-0DCE-A00 |
| | | USB Cable: Shielded, Undetachable, 1.5m | | | |
| 4. | USB Mouse | ACS-EMC-M03R | DELL | M0C5UO | 512023253 |
| | | SB Cable: Shielded, Undetachable, 1.8m | | | |
| 5. | Printer | ACS-EMC-PT04 | HP | C9079A | 908A1001201 |
| | | USB Cable: Shielded, Detachable, 1.8m Power Cord(2C): Unshielded, Detachable, 1.8m | | | |
| 6. | Headphone | ACS-EMC-EP01 | OVANN | OV880V | --- |
| | | Data Cable: Shielded, Undetachable, 2.0m | | | |
| 7. | HDD | ACS-EMC-HDD01 | Terasys | F12-UF | A0100215-5390031 |
| | | USB Cable: Shielded, Detachable, 1.8m | | | |
| 8. | HDD#1 | ACS-EMC-HDD33 | WD | WD My Book Studio | WCAV5C987862 |
| | | USB Cable: Shielded, Detachable, 1.8m | | | |
| 9. | HDD#2 | ACS-EMC-HDD34 | WD | WD My Book Studio | WCAV4302542 |
| | | USB Cable: Shielded, Detachable, 1.8m | | | |
| 10. | HDD#3 | ACS-EMC-HDD35 | WD | WD My Book Studio | WCAV5D02502 |
| | | USB Cable: Shielded, Detachable, 1.8m | | | |
| 11. | HDD#4 | ACS-EMC-HDD36 | WD | WD My Book Studio | WCAV52038833 |
| | | USB Cable: Shielded, Detachable, 1.8m | | | |

2.3. Block Diagram of connection between EUT and simulators



**Note: HDMI terminal respectively applies to PC, DVD Mode, but it can't be work at the same time for the two modes.
(EUT: LCD Monitor)**

**2.4. Test Facility
Site Description**

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Kefeng Road, Science & Technology Park,
Nanshan District, Shenzhen, Guangdong, China

EMC Lab. : Accredited by NVLAP, USA
NVLAP Code: 200372-0
Valid Date: Mar.31, 2022

Certificated by FCC, USA
Designation No: CN5022
Valid Date: Mar.31, 2022

Accredited by TAF, Taiwan
Registration No: 1418
Valid Date: Nov.30, 2023

2.5. Measurement Uncertainty (95% confidence levels, k=2)

| Test Item | Uncertainty |
|--|------------------------------------|
| Uncertainty for Conduction Emission test in No. 2 Conduction | 2.4dB (150 kHz to 30MHz) |
| Uncertainty for Radiation Emission test in 10m chamber (Distance: 10m) | 3.8dB (30~200MHz, Polarization: H) |
| | 3.6dB (30~200MHz, Polarization: V) |
| | 3.6dB (200M~1GHz, Polarization: H) |
| | 3.8dB (200M~1GHz, Polarization: V) |
| Uncertainty for Radiation Emission test in 10m chamber (1GHz-18GHz) | 5.0dB (1~6GHz, Distance: 3m) |
| | 5.0dB (6~18GHz, Distance: 3m) |
| Uncertainty for S_{VSWR} in 10m Chamber | 2.8dB (1~6GHz, Distance: 3m) |
| | 2.8dB (6~18GHz, Distance: 3m) |
| Uncertainty for Flicker test | 1.5% |
| Uncertainty for Harmonic test | 8.0% |
| Uncertainty for C/S Test | 1.4dB (Using CDN test) |
| | 3.2dB (Using EM clamp test) |
| Uncertainty for R/S Test | 2.31dB (80MHz~200MHz) |
| | 2.31dB (200MHz~1000MHz) |
| | 2.55dB(1GHz~6GHz) |
| Uncertainty for Magnetic Field Immunity test | 2% |
| Uncertainty for test site temperature and humidity and pressure | 0.6°C |
| | 3% |
| | 1kPa |

Note: EMI uncertainty is evaluated by CISPR16-4-2.

The value of measurement uncertainty of EMI is less than U_{CISPR} .

The value is not calculated in the test results.

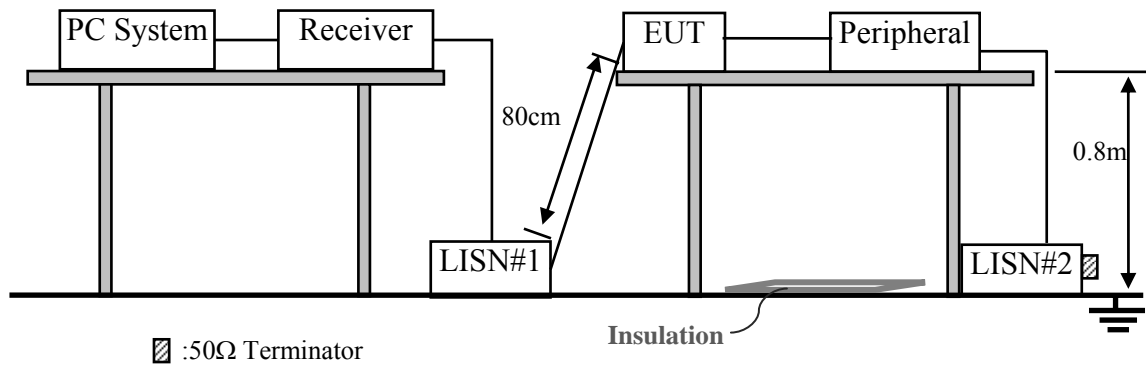
3. CONDUCTED EMISSION AT MAINS TERMINALS TEST

3.1. Test Equipments

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------|-----------------|------------------------------|------------|-----------|---------------|
| 1. | 2# Shielding Room | AUDIX | N/A | N/A | Apr.14,21 | 3 Year |
| 2. | EMI Test Receiver | Rohde & Schwarz | ESCI | 100843 | Oct.11,20 | 1 Year |
| 3. | L.I.S.N.#1 | Rohde & Schwarz | ENV4200 | 100041 | Apr.07,21 | 1 Year |
| 4. | L.I.S.N.#2 | Kyoritsu | KNW-407 | 8-1628-5 | Apr.07,21 | 1 Year |
| 5. | Terminator | Hubersuhner | 50Ω | No.4 | Apr.06,21 | 1 Year |
| 6. | Terminator | Hubersuhner | 50Ω | No.5 | Apr.06,21 | 1 Year |
| 7. | RF Cable | EMCI | EMCCFD300 -BM-NM-200 0 | 190421 | Apr.13,21 | 1 Year |
| 8. | Test Software | AUDIX | e3 | 6.100913a | N/A | N/A |

Note: N/A means Not applicable.

3.2. Block Diagram of Test Setup



3.3. Test Standard

- EN 55032: 2015 (Class B)
- EN 55032: 2015+AC: 2016
- EN 55032: 2015+A11: 2020
- BS EN 55032: 2015 (Class B)
- BS EN 55032: 2015+AC: 2016
- BS EN 55032: 2015+A11: 2020

3.4. Power Line Conducted Emission at Mains Terminals Class B Limit

| Frequency | Maximum RF Line Voltage | |
|-----------------|----------------------------|-------------------------|
| | Quasi-Peak Level dB(μV) | Average Level dB(μV) |
| 150kHz ~ 500kHz | 66 ~ 56* | 56 ~ 46* |
| 500kHz ~ 5MHz | 56 | 46 |
| 5MHz ~ 30MHz | 60 | 50 |

- Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

3.5.EUT Configuration on Test

The following equipments are installed on Conducted Emission Test to meet EN 55032 requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

3.5.1. LCD Monitor (EUT)

Model No. : AG274Q

3.5.2. Support Equipment : As Tested Supporting System Detail, in Section 2.2.

3.6.Operating Condition of EUT

3.6.1. Setup the EUT and simulator as shown as Section 3.2.

3.6.2. Turn on the power of all equipments.

3.6.3. For EMI: PC system sent “Color Bars with moving picture element to LCD Monitor (EUT) through HDMI / DP.

3.6.4. For EMS: Standard color bar image with a small moving element for(Digital television set, set-top box, personal computer, DVD player, video game player, video camera); Standard color bar for analog TV; text image for EUT without graphic capability.

3.6.5. DVD Mode: The DVD player played DVD Disk and sent “DVD 1kHz Signal Playing” image to the LCD Monitor (EUT).

3.6.6. The PC system was running the program “1kHz signal playing” and sending sound to EUT.

3.6.7. The other peripheral devices were driven and operated in turn during all testing.

3.6.8. The EUT is designed with AC power of rating AC 100V-240V, 50/60Hz. AC 230V/50Hz & AC 110V/60Hz (for EN55032 & CISPR 32 & AS/NZS CISPR 32) had been covered during the pre-test. The worst data was found at AC 230V/50Hz and recorded in the applied test report.

3.7.Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. #1). This provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N. #2). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to EN 55032, BS EN 55032 Class B on conducted emission test.

The bandwidth of test receiver (R & S ESCI) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked. These test results of the conducted disturbance are recorded in section 3.8.

3.8. Conducted Emission at Mains Terminals Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

EUT: LCD Monitor Model No. : AG274Q

The EUT with following test modes were pre-tested:

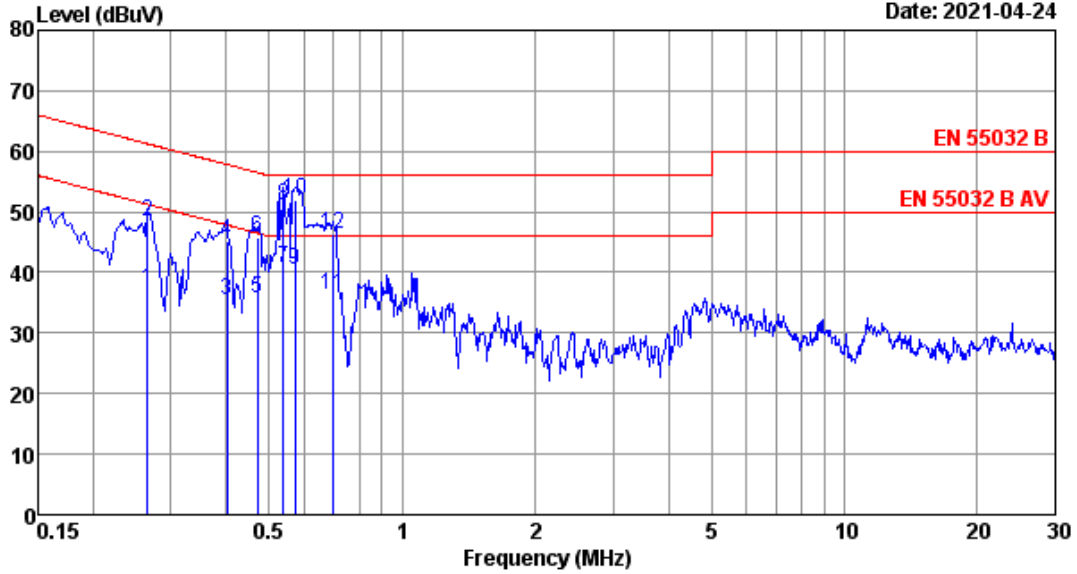
| No. | Adapter | Test Voltage | Test Mode | Input Port | Cable Length | Resolution & Frequency | | |
|-----|------------------------------|-----------------|-----------------|------------|--------------|--|------|-----------|
| 1. | Adapter#1: ADP-230JB D | AC 230V/50Hz | PC Mode | HDMI 1 | 1.8m | 640*480@60Hz | | |
| 2. | | | | | | 1280*1024@75Hz | | |
| 3. | | | | | | 2560*1440@144Hz | | |
| 4. | | | | | | 1440*2560@144Hz (Panel is Vertical) | | |
| 5. | | | | | | 2560*1440@144Hz | | |
| 6. | | | | HDMI 2 | 1.8m | 640*480@60Hz | | |
| 7. | | | | | | 1280*1024@75Hz | | |
| 8. | | | | | | 2560*1440@144Hz | | |
| 9. | | | | DP | 1.8m | 640*480@60Hz | | |
| 10. | | | | | | 1280*1024@75Hz | | |
| 11. | | | 2560*1440@144Hz | | | | | |
| 12. | | | | | DVD Mode | HDMI 1/2 | 1.8m | Color Bar |
| 13. | | | | | Standby | --- | --- | --- |
| 14. | | AC 110V/60Hz | PC Mode | HDMI 1 | 1.8m | 2560*1440@144Hz | | |
| 15. | Adapter#2: FSP230-AJAN3-T | AC 230V/50Hz | PC Mode | HDMI 1 | 1.8m | 640*480@60Hz | | |
| 16. | | | | | | 1280*1024@75Hz | | |
| 17. | | | | | | 2560*1440@144Hz | | |
| 18. | | | | | | 1440*2560@144Hz (Panel is Vertical) | | |
| 19. | | | | | | 2560*1440@144Hz | | |
| 20. | | | | HDMI 2 | 1.8m | 640*480@60Hz | | |
| 21. | | | | | | 1280*1024@75Hz | | |
| 22. | | | | | | 2560*1440@144Hz | | |
| 23. | | | | DP | 1.8m | 640*480@60Hz | | |
| 24. | | | | | | 1280*1024@75Hz | | |
| 25. | | | 2560*1440@144Hz | | | | | |
| 26. | | | | | DVD Mode | HDMI 1/2 | 1.8m | Color Bar |
| 27. | | | | | Standby | --- | --- | --- |
| 28. | | AC 110V/60Hz | PC Mode | HDMI 1 | 1.8m | 2560*1440@144Hz | | |

The result of worst test mode is presented in the report as below and the test data are listed in next pages.

| No. | Test Voltage | Cable Length | Test Mode | Input Port | Resolution & Frequency | Reference Test Data No. | |
|-----|-----------------|--------------|--------------------------------|------------|------------------------|-------------------------|---------|
| | | | | | | Line | Neutral |
| 1.* | AC 230V/50Hz | 1.8m | PC (Running ITU-R BT 1729) | HDMI 1 | 2560*1440@144Hz | #1 | #2 |
| 2. | | | PC (Running ITU-R BT 471-1) | | | | |

(* means the worst test mode)

Data: 1 File: E:\2021 Report Data-CE\TPVA1Z2103128.EM6 (58) Date: 2021-04-24

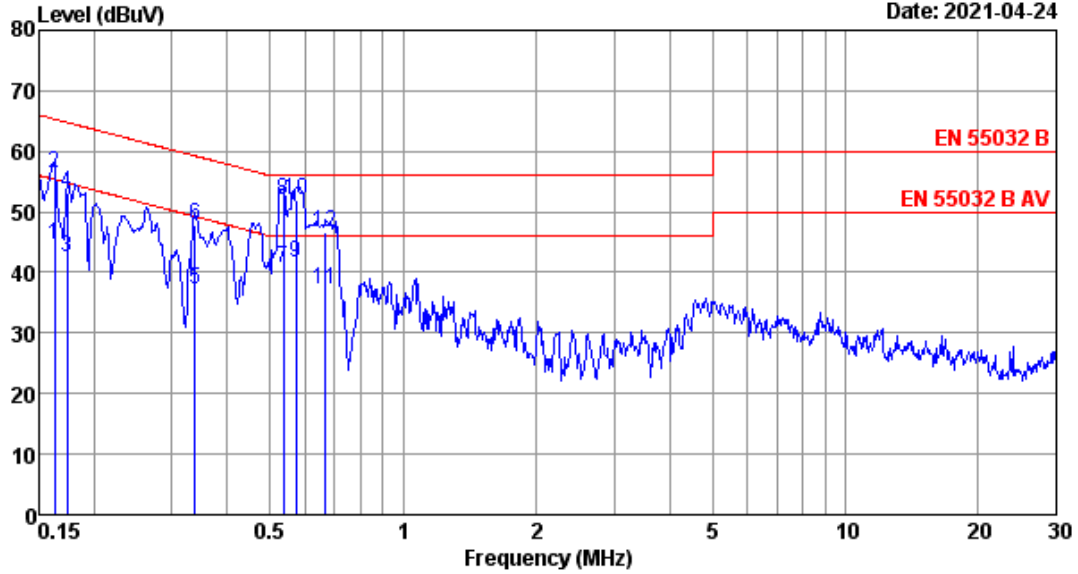


| | | | |
|--------------|------------------------|------------|-----------|
| Site no | :2# Conduction | Data No | :1 |
| Dis./Lisn | :2021 ENV4200 L1 | LISN phase | :LINE |
| Limit | :EN 55032 B | Pressure | :101.6kPa |
| Env./Ins. | :24.4°C/43% | Engineer | :Gavin |
| EUT | :M/N:AG274Q | | |
| Power Rating | :AC 230V/50Hz | | |
| Test Mode | :Running ITU-R BT 1729 | | |
| | HDMI1:2560*1440@144Hz | | |
| | Line:1.8m | | |

| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|------------|------------------|-----------------|----------------|-----------------------|---------------|-------------|---------|
| 1 | 0.266 | 10.20 | 0.23 | 26.75 | 37.18 | 51.25 | 14.07 | Average |
| 2 | 0.266 | 10.20 | 0.23 | 37.95 | 48.38 | 61.25 | 12.87 | QP |
| 3 | 0.402 | 10.20 | 0.23 | 24.95 | 35.38 | 47.81 | 12.43 | Average |
| 4 | 0.402 | 10.20 | 0.23 | 34.82 | 45.25 | 57.81 | 12.56 | QP |
| 5 | 0.471 | 10.16 | 0.23 | 25.31 | 35.70 | 46.49 | 10.79 | Average |
| 6 | 0.471 | 10.16 | 0.23 | 35.28 | 45.67 | 56.49 | 10.82 | QP |
| 7 | 0.538 | 10.13 | 0.23 | 30.26 | 40.62 | 46.00 | 5.38 | Average |
| 8 | 0.538 | 10.13 | 0.23 | 40.57 | 50.93 | 56.00 | 5.07 | QP |
| 9 | 0.573 | 10.11 | 0.23 | 30.19 | 40.53 | 46.00 | 5.47 | Average |
| 10 | 0.573 | 10.11 | 0.23 | 41.66 | 52.00 | 56.00 | 4.00 | QP |
| 11 | 0.697 | 9.94 | 0.24 | 26.18 | 36.36 | 46.00 | 9.64 | Average |
| 12 | 0.697 | 9.94 | 0.24 | 36.17 | 46.35 | 56.00 | 9.65 | QP |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

Data: 2 File: E:\2021 Report Data-CE\TPVA1Z2103128.EM6 (58) Date: 2021-04-24

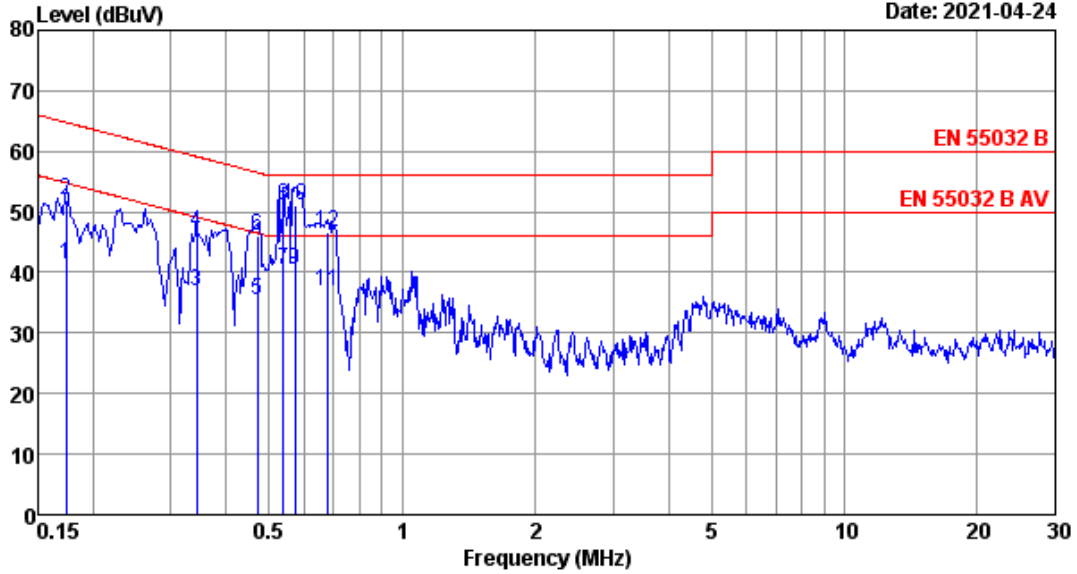


| | | | |
|--------------|------------------------|------------|-----------|
| Site no | :2# Conduction | Data No | :2 |
| Dis./Lisn | :2021 ENV4200 N | LISN phase | :NEUTRAL |
| Limit | :EN 55032 B | Pressure | :101.6kPa |
| Env./Ins. | :24.4*C/43% | Engineer | :Gavin |
| EUT | :M/N:AG274Q | | |
| Power Rating | :AC 230V/50Hz | | |
| Test Mode | :Running ITU-R BT 1729 | | |
| | HDMI1:2560*1440@144Hz | | |
| | Line:1.8m | | |

| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|------------|------------------|-----------------|----------------|-----------------------|---------------|-------------|---------|
| 1 | 0.162 | 10.20 | 0.23 | 34.18 | 44.61 | 55.34 | 10.73 | Average |
| 2 | 0.162 | 10.20 | 0.23 | 45.92 | 56.35 | 65.34 | 8.99 | QP |
| 3 | 0.174 | 10.20 | 0.23 | 32.02 | 42.45 | 54.77 | 12.32 | Average |
| 4 | 0.174 | 10.20 | 0.23 | 42.61 | 53.04 | 64.77 | 11.73 | QP |
| 5 | 0.337 | 10.12 | 0.23 | 26.89 | 37.24 | 49.27 | 12.03 | Average |
| 6 | 0.337 | 10.12 | 0.23 | 37.50 | 47.85 | 59.27 | 11.42 | QP |
| 7 | 0.535 | 10.17 | 0.23 | 30.42 | 40.82 | 46.00 | 5.18 | Average |
| 8 | 0.535 | 10.17 | 0.23 | 41.49 | 51.89 | 56.00 | 4.11 | QP |
| 9 | 0.573 | 10.19 | 0.23 | 31.29 | 41.71 | 46.00 | 4.29 | Average |
| 10 | 0.573 | 10.19 | 0.23 | 41.52 | 51.94 | 56.00 | 4.06 | QP |
| 11 | 0.668 | 10.09 | 0.24 | 26.75 | 37.08 | 46.00 | 8.92 | Average |
| 12 | 0.668 | 10.09 | 0.24 | 36.39 | 46.72 | 56.00 | 9.28 | QP |

Remarks: 1. Emission Level=LISN Factor+Cable Loss+Reading.
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

Data: 3 File: E:\2021 Report Data-CE\TPVA1Z2103128.EM6 (58) Date: 2021-04-24

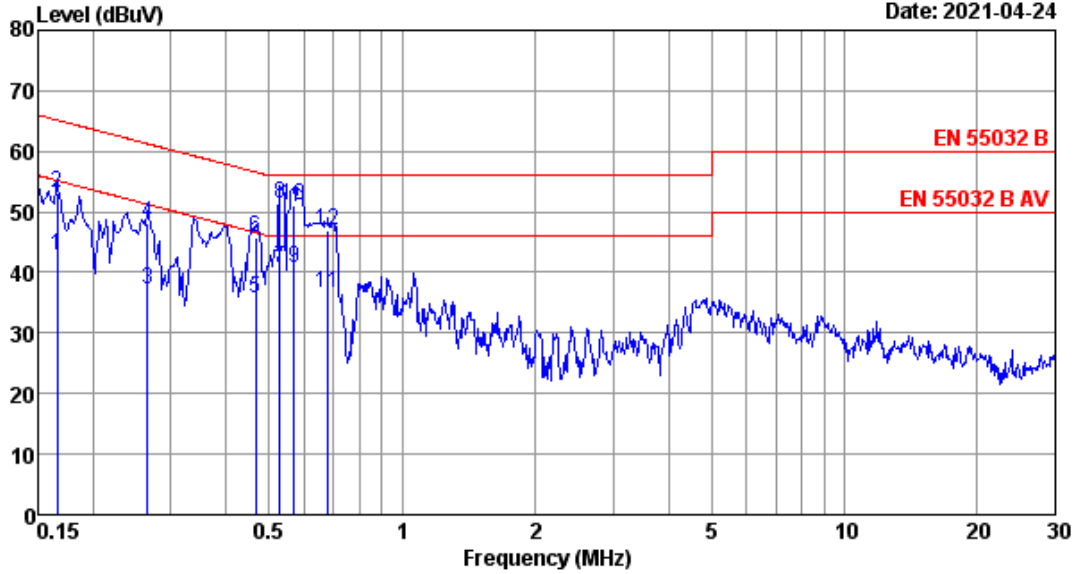


Site no :2# Conduction Data No :3
 Dis./Lisn :2021 ENV4200 L1 LISN phase:LINE
 Limit :EN 55032 B Pressure :101.6kPa
 Env./Ins. :24.4*C/43% Engineer :Gavin
 EUT :M/N:AG274Q
 Power Rating :AC 230V/50Hz
 Test Mode :Running ITU-R BT 471-1
 HDMI1:2560*1440@144Hz
 Line:1.8m

| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|------------|------------------|-----------------|----------------|-----------------------|---------------|-------------|---------|
| 1 | 0.174 | 10.25 | 0.23 | 30.75 | 41.23 | 54.77 | 13.54 | Average |
| 2 | 0.174 | 10.25 | 0.23 | 41.37 | 51.85 | 64.77 | 12.92 | QP |
| 3 | 0.343 | 10.20 | 0.23 | 26.35 | 36.78 | 49.13 | 12.35 | Average |
| 4 | 0.343 | 10.20 | 0.23 | 36.14 | 46.57 | 59.13 | 12.56 | QP |
| 5 | 0.471 | 10.16 | 0.23 | 25.18 | 35.57 | 46.49 | 10.92 | Average |
| 6 | 0.471 | 10.16 | 0.23 | 35.68 | 46.07 | 56.49 | 10.42 | QP |
| 7 | 0.538 | 10.13 | 0.23 | 30.18 | 40.54 | 46.00 | 5.46 | Average |
| 8 | 0.538 | 10.13 | 0.23 | 40.57 | 50.93 | 56.00 | 5.07 | QP |
| 9 | 0.573 | 10.11 | 0.23 | 30.22 | 40.56 | 46.00 | 5.44 | Average |
| 10 | 0.573 | 10.11 | 0.23 | 40.59 | 50.93 | 56.00 | 5.07 | QP |
| 11 | 0.675 | 9.98 | 0.24 | 26.75 | 36.97 | 46.00 | 9.03 | Average |
| 12 | 0.675 | 9.98 | 0.24 | 36.43 | 46.65 | 56.00 | 9.35 | QP |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Data: 4 File: E:\2021 Report Data-CE\TPVA1Z2103128.EM6 (58) Date: 2021-04-24



Site no :2# Conduction Data No :4
 Dis./Lisn :2021 ENV4200 N LISN phase:NEUTRAL
 Limit :EN 55032 B Pressure :101.6kPa
 Env./Ins. :24.4*C/43% Engineer :Gavin
 EUT :M/N:AG274Q
 Power Rating :AC 230V/50Hz
 Test Mode :Running ITU-R BT 471-1
 HDMI1:2560*1440@144Hz
 Line:1.8m

| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|------------|------------------|-----------------|----------------|-----------------------|---------------|-------------|---------|
| 1 | 0.166 | 10.20 | 0.23 | 32.48 | 42.91 | 55.16 | 12.25 | Average |
| 2 | 0.166 | 10.20 | 0.23 | 42.80 | 53.23 | 65.16 | 11.93 | QP |
| 3 | 0.266 | 10.16 | 0.23 | 26.95 | 37.34 | 51.25 | 13.91 | Average |
| 4 | 0.266 | 10.16 | 0.23 | 37.84 | 48.23 | 61.25 | 13.02 | QP |
| 5 | 0.466 | 10.14 | 0.23 | 25.34 | 35.71 | 46.58 | 10.87 | Average |
| 6 | 0.466 | 10.14 | 0.23 | 35.39 | 45.76 | 56.58 | 10.82 | QP |
| 7 | 0.529 | 10.17 | 0.23 | 30.29 | 40.69 | 46.00 | 5.31 | Average |
| 8 | 0.529 | 10.17 | 0.23 | 40.84 | 51.24 | 56.00 | 4.76 | QP |
| 9 | 0.570 | 10.19 | 0.23 | 30.24 | 40.66 | 46.00 | 5.34 | Average |
| 10 | 0.570 | 10.19 | 0.23 | 40.59 | 51.01 | 56.00 | 4.99 | QP |
| 11 | 0.679 | 10.07 | 0.24 | 26.18 | 36.49 | 46.00 | 9.51 | Average |
| 12 | 0.679 | 10.07 | 0.24 | 36.62 | 46.93 | 56.00 | 9.07 | QP |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

4. RADIATED EMISSION MEASUREMENT

4.1. Test Equipments

4.1.1. For frequency range 30MHz~1000MHz (In 10m Anechoic Chamber)

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|---------------------------|-----------------|--------------|---------------|-----------|---------------|
| 1. | 10m Chamber(NSA) | AUDIX | N/A | N/A | Apr.14,21 | 1 Year |
| 2. | 10m Chamber(SE) | AUDIX | N/A | N/A | Apr.14,21 | 3 Year |
| 3. | Signal Analyzer | Rohde & Schwarz | FSV30 | 103669 | Oct.11,20 | 1 Year |
| 4. | Signal Analyzer | Rohde & Schwarz | FSV30 | 103670 | Oct.11,20 | 1 Year |
| 5. | EMI Test Receiver | Rohde & Schwarz | ESR3 | 101931 | Apr.06,21 | 1 Year |
| 6. | Amplifier | EMCI | EMC9135 | 980347 | Apr.06,21 | 1 Year |
| 7. | Amplifier | EMCI | EMC9135 | 980348 | Mar.02,21 | 1 Year |
| 8. | Tri-log-Broadband Antenna | Schwarzbeck | VULB 9168 | 429 | Jul.06,20 | 1 Year |
| 9. | Tri-log-Broadband Antenna | Schwarzbeck | VULB 9168 | 493 | Aug.28,20 | 1 Year |
| 10. | RF Cable | SPUMA | CFD400NL-LW | No.4 | Apr.06,21 | 1 Year |
| 11. | RF Cable | SPUMA | CFD400-NM-NM | 160727+160728 | Apr.06,21 | 1 Year |
| 12. | Coaxial Switch | Anritsu | MP59B | 6201397220 | Apr.06,21 | 1 Year |
| 13. | Coaxial Switch | Anritsu | MP59B | 6201397221 | Apr.06,21 | 1 Year |
| 14. | Coaxial Switch | Anritsu | MP59B | 6201397224 | Apr.06,21 | 1 Year |
| 15. | Test Software | AUDIX | e3 | 6.100913a | N/A | N/A |

Note: N/A means Not applicable.

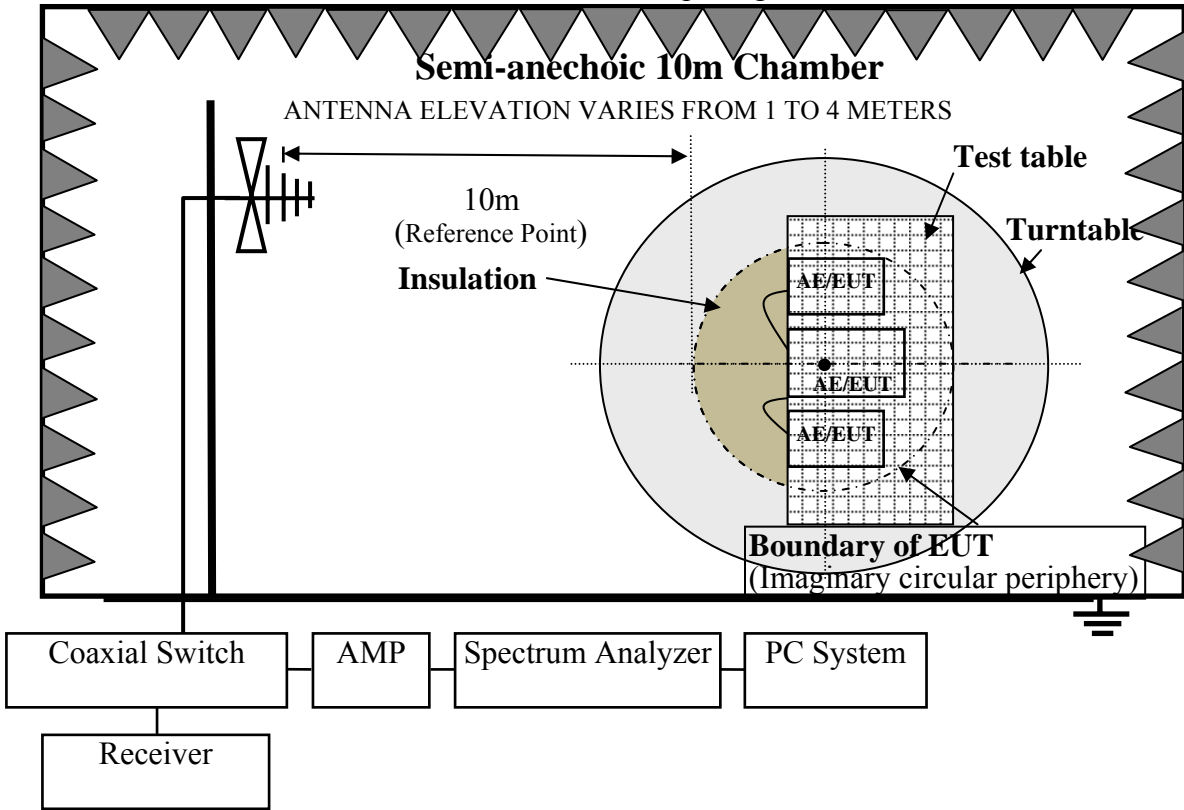
4.1.2. For frequency range 1GHz~6GHz (In 10m Anechoic Chamber)

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|--------------------|-----------------|-------------------|------------|-----------|---------------|
| 1. | 10m Chamber(Svswr) | AUDIX | N/A | N/A | Apr.11,21 | 1 Year |
| 2. | 10m Chamber(SE) | AUDIX | N/A | N/A | Apr.14,21 | 3 Year |
| 3. | Signal Analyzer | Rohde & Schwarz | FSV30 | 103670 | Oct.11,20 | 1 Year |
| 4. | Horn Antenna | ETS | 3117 | 00218552 | Dec.09,20 | 1 Year |
| 5. | Amplifier | KEYSIGHT | 83017A | 39500711 | Apr.06,21 | 1 Year |
| 6. | RF Cable | ETS | SMS-100-SMS-350IN | NO.1 | Apr.06,21 | 1 Year |
| 7. | Test Software | AUDIX | e3 | 6.100913a | N/A | N/A |

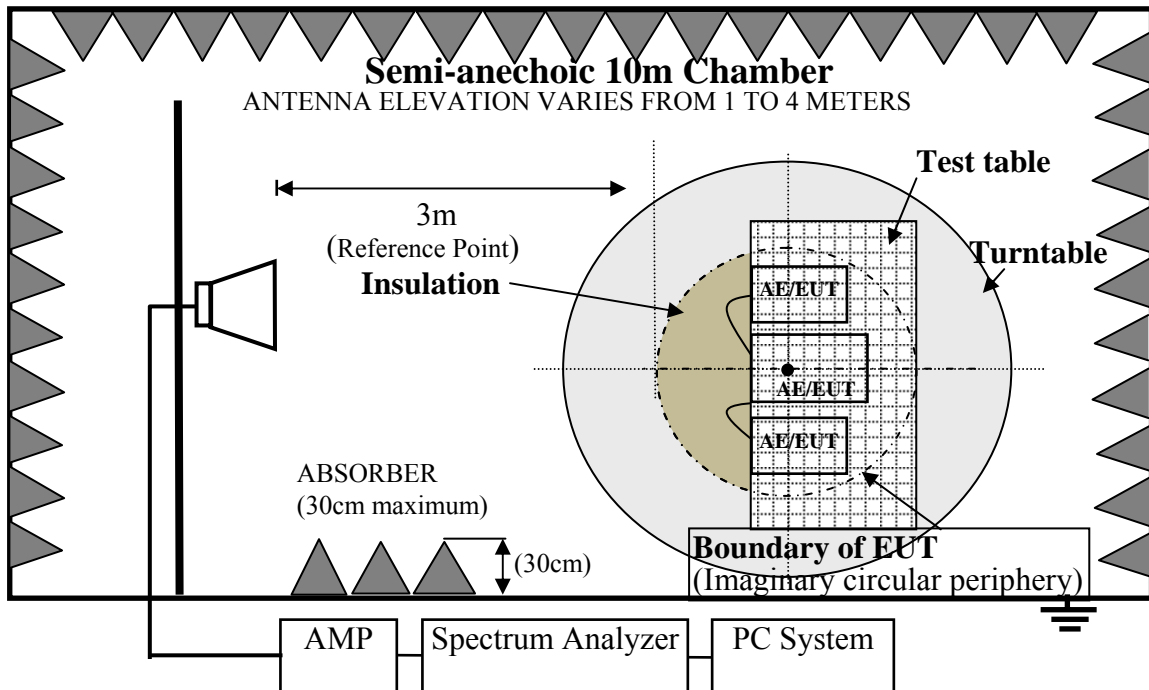
Note: N/A means Not applicable.

4.2. Block Diagram of Test Setup

4.2.1. In 10m Anechoic Chamber Test Setup Diagram for 30-1000MHz



4.2.2. In 10m Anechoic Chamber Test Setup Diagram for 1-6GHz



4.3. Test Standard

- EN 55032: 2015 (Class B)
- EN 55032: 2015+AC: 2016
- EN 55032: 2015+A11: 2020
- BS EN 55032: 2015 (Class B)
- BS EN 55032: 2015+AC: 2016
- BS EN 55032: 2015+A11: 2020

4.4. Radiated Emission Class B Limit

All emanations from a Class B computing devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

| Frequency (MHz) | Distance (Meters) | Field Strengths Limits (dB μ V/m) |
|-----------------|-------------------|---------------------------------------|
| 30~230 | 10 | 30 |
| 230~1000 | 10 | 37 |
| 1000~3000 | 3 | 70(Peak) 50(Average) |
| 3000~6000 | 3 | 74(Peak) 54(Average) |

- Notes: (1) Emission level = Antenna Factor + Cable Loss + Reading
 Emission level = Antenna Factor - Amp Factor + Cable Loss + Reading (above 1000MHz)
 (2) The lower limit shall apply at the transition frequencies.

4.5. EUT Configuration on Test

The configurations of EUT are listed in Section 3.5.

4.6. Operating Condition of EUT

Same as Conducted Emission test that listed in Section 3.6. Except the test set up replaced by Section 4.2.

4.7. Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane measurement distance was 10m at a semi-anechoic chamber. An antenna was located 10m from the periphery of test system on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all the interface cables were changed according to EN 55032 Class B on radiated emission test.

The bandwidth setting on the test receiver (R&S ESR3) is 120 kHz.

The resolution bandwidth of the Spectrum Analyzer FSV30 was set at 1MHz. (For above 1GHz)

The frequency range from 30MHz to 1000MHz was pre-scanned with a peak detector and all final readings of measurement from Test Receiver are Quasi-Peak values.

The frequency range from 1GHz to 6GHz was checked and all final readings of measurement were with Peak and Average detector, measurement distance was 3m at semi-anechoic chamber. The EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. The portion of the test volume that was obstructed by absorber placed on the floor (30cm maximum).

Finally, selected operating situations at Anechoic Chamber measurement, all the test results are listed in section 4.8.

4.8. Radiated Emission Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

EUT: LCD Monitor Model No. : AG274Q
For frequency range 30MHz~1000MHz

The EUT with following test modes were pre-tested:

| No. | Adapter | Test Voltage | Test Mode | Input Port | Cable Length | Resolution & Frequency | | | | |
|-----|----------------------------|-----------------|-----------|------------|-----------------|--|-----------------|----------|-----------------|-----------|
| 1. | Adapter#1: ADP-230JB D | AC 230V/50Hz | PC Mode | HDMI 1 | 1.8m | 640*480@60Hz | | | | |
| 2. | | | | | | 1280*1024@75Hz | | | | |
| 3. | | | | | | 2560*1440@144Hz | | | | |
| 4. | | | | | | 1440*2560@144Hz (Panel is Vertical) | | | | |
| 5. | | | | | | 2560*1440@144Hz | | | | |
| 6. | | | | HDMI 2 | 1.8m | 640*480@60Hz | | | | |
| 7. | | | | | | | 1280*1024@75Hz | | | |
| 8. | | | | | | | 2560*1440@144Hz | | | |
| 9. | | | | | | | DP | 1.8m | 640*480@60Hz | |
| 10. | | | | | | | | | 1280*1024@75Hz | |
| 11. | | | | | | | | | 2560*1440@144Hz | |
| 12. | | | | | | | DVD Mode | HDMI 1/2 | 1.8m | Color Bar |
| 13. | | | | | | | Standby | --- | --- | --- |
| 14. | AC 110V/60Hz | PC Mode | HDMI 1 | 1.8m | 2560*1440@144Hz | | | | | |
| 15. | Adapter#2: FSP230-AJAN3 | AC 230V/50Hz | PC Mode | HDMI 1 | 1.8m | 640*480@60Hz | | | | |
| 16. | | | | | | 1280*1024@75Hz | | | | |
| 17. | | | | | | 2560*1440@144Hz | | | | |
| 18. | | | | | | 1440*2560@144Hz (Panel is Vertical) | | | | |
| 19. | | | | | | 2560*1440@144Hz | | | | |
| 20. | | | | HDMI 2 | 1.8m | 640*480@60Hz | | | | |
| 21. | | | | | | | 1280*1024@75Hz | | | |
| 22. | | | | | | | 2560*1440@144Hz | | | |
| 23. | | | | | | | DP | 1.8m | 640*480@60Hz | |
| 24. | | | | | | | | | 1280*1024@75Hz | |
| 25. | | | | | | | | | 2560*1440@144Hz | |
| 26. | | | | | | | DVD Mode | HDMI 1/2 | 1.8m | Color Bar |
| 27. | | | | | | | Standby | --- | --- | --- |
| 28. | AC 110V/60Hz | PC Mode | HDMI 1 | 1.8m | 2560*1440@144Hz | | | | | |

The result of worst test mode is presented in the report as below and the test data are listed in next pages.

| No. | Test Voltage | Cable Length | Test Mode | Input Port | Resolution & Frequency | Reference Test Data No. | |
|-----|-----------------|--------------|--------------------------------|------------|------------------------|-------------------------|----------|
| | | | | | | Horizontal | Vertical |
| 1.* | AC 230V/50Hz | 1.8m | PC (Running ITU-R BT 1729) | HDMI 1 | 2560*1440@144Hz | #2 | #1 |
| 2. | | | PC (Running ITU-R BT 471-1) | | | | |

(* means the worst test mode)

For frequency range 1GHz~6GHz

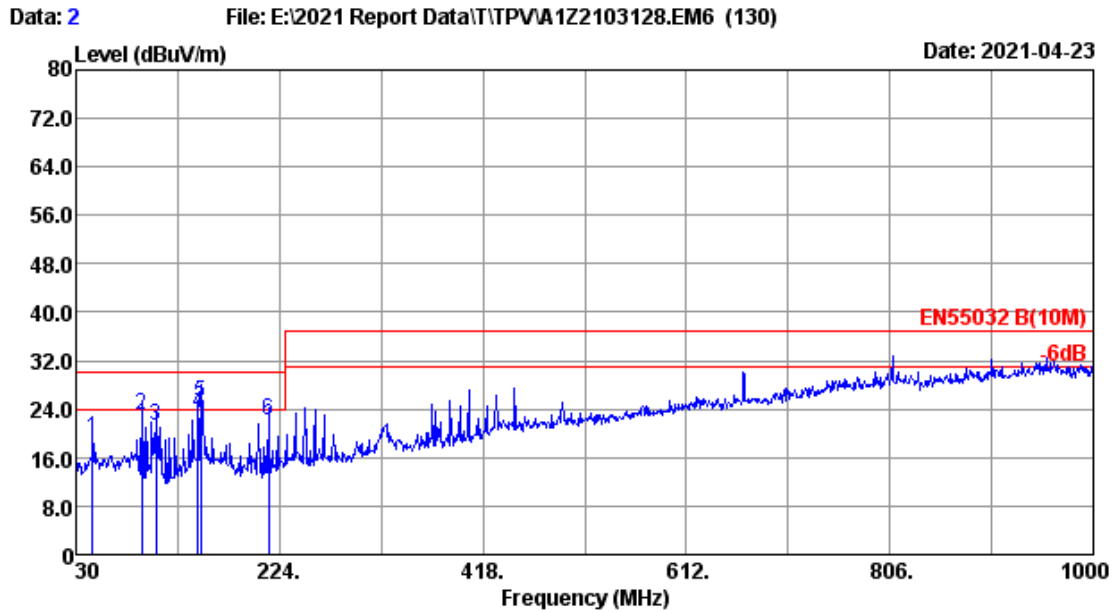
The EUT with following test modes were pre-tested:

| No. | Adapter | Test Voltage | Test Mode | Input Port | Cable Length | Resolution & Frequency | |
|-----|----------------------------|-----------------|-----------|-----------------|--------------|--|-----------|
| 1. | Adapter#1: ADP-230JB D | AC 230V/50Hz | PC Mode | HDMI 1 | 1.8m | 640*480@60Hz | |
| 2. | | | | | | 1280*1024@75Hz | |
| 3. | | | | | | 2560*1440@144Hz | |
| 4. | | | | | | 1440*2560@144Hz (Panel is Vertical) | |
| 5. | | | | | | 2560*1440@144Hz | |
| 6. | | | | HDMI 2 | 1.8m | 640*480@60Hz | |
| 7. | | | | | | 1280*1024@75Hz | |
| 8. | | | | | | 2560*1440@144Hz | |
| 9. | | | | DP | 1.8m | 640*480@60Hz | |
| 10. | | | | | | 1280*1024@75Hz | |
| 11. | | | | | | 2560*1440@144Hz | |
| 12. | | | | DVD Mode | HDMI 1/2 | 1.8m | Color Bar |
| 13. | | | | Standby | --- | --- | --- |
| 14. | | | | AC 110V/60Hz | PC Mode | HDMI 1 | 1.8m |
| 15. | Adapter#2: FSP230-AJAN3 | AC 230V/50Hz | PC Mode | HDMI 1 | 1.8m | 640*480@60Hz | |
| 16. | | | | | | 1280*1024@75Hz | |
| 17. | | | | | | 2560*1440@144Hz | |
| 18. | | | | | | 1440*2560@144Hz (Panel is Vertical) | |
| 19. | | | | | | 2560*1440@144Hz | |
| 20. | | | | HDMI 2 | 1.8m | 640*480@60Hz | |
| 21. | | | | | | 1280*1024@75Hz | |
| 22. | | | | | | 2560*1440@144Hz | |
| 23. | | | | DP | 1.8m | 640*480@60Hz | |
| 24. | | | | | | 1280*1024@75Hz | |
| 25. | | | | | | 2560*1440@144Hz | |
| 26. | | | | DVD Mode | HDMI 1/2 | 1.8m | Color Bar |
| 27. | | | | Standby | --- | --- | --- |
| 28. | | | | AC 110V/60Hz | PC Mode | HDMI 1 | 1.8m |

The result of worst test mode is presented in the report as below and the test data are listed in next pages.

| No. | Test Voltage | Cable Length | Test Mode | Input Port | Resolution & Frequency | Reference Test Data No. | |
|-----|-----------------|--------------|--------------------------------|------------|------------------------|-------------------------|----------|
| | | | | | | Horizontal | Vertical |
| 1.* | AC 230V/50Hz | 1.8m | PC (Running ITU-R BT 1729) | HDMI 1 | 2560*1440@144Hz | #28 | #27 |
| 2. | | | PC (Running ITU-R BT 471-1) | | | | |

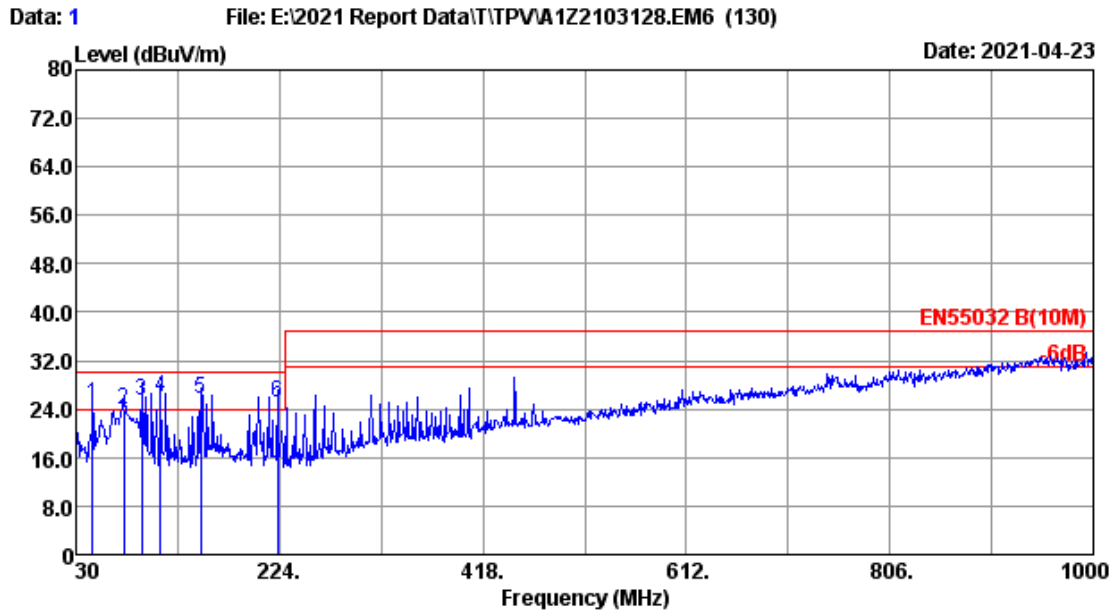
(* means the worst test mode)



| | |
|-------------------------------------|------------------------|
| Site no. : 10m Chamber | Data no. : 2 |
| Dis. / Ant. : 10m 2020 VULB9168-429 | Ant. pol. : HORIZONTAL |
| Limit : EN55032 B(10M) | Pressure : 101.6kPa |
| Env. / Ins. : 21.6°C/42% | Engineer : Dream |
| EUT : M/N:AG274Q | |
| Power rating : AC 230V/50Hz | |
| Test Mode : Running ITU-R BT 1729 | |
| HDMI1:2560*1440@144Hz | |
| Line:1.8m | |

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-------------------------|-----------------|-------------|--------|
| 1 | 45.520 | 19.50 | 0.66 | -1.06 | 19.10 | 30.00 | 10.90 | QP |
| 2 | 93.050 | 13.90 | 0.87 | 8.20 | 22.97 | 30.00 | 7.03 | QP |
| 3 | 106.630 | 16.10 | 0.94 | 4.14 | 21.18 | 30.00 | 8.82 | QP |
| 4 | 146.400 | 19.40 | 1.13 | 2.78 | 23.31 | 30.00 | 6.69 | QP |
| 5 | 149.310 | 19.40 | 1.14 | 4.62 | 25.16 | 30.00 | 4.84 | QP* |
| 6 | 213.330 | 15.50 | 1.46 | 5.24 | 22.20 | 30.00 | 7.80 | QP |

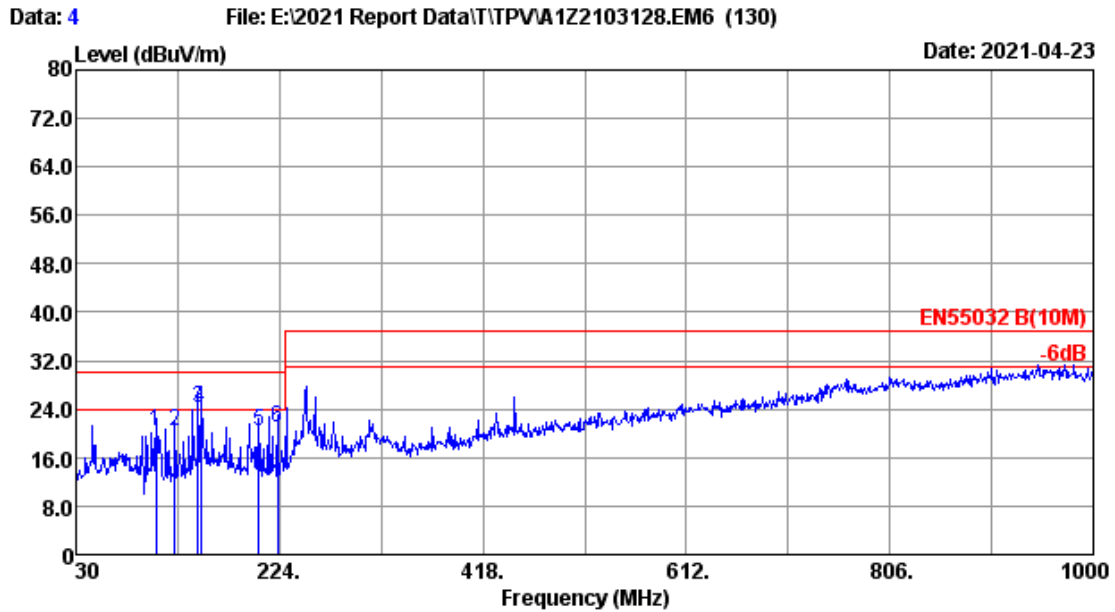
- Remarks:
1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.
 3. The worst emission was detected at 149.310MHz with corrected signal level of 25.16dB μ V/m. (Antenna height 1.46m; Turntable degree 305°).
 4. 0° was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna.



| | | | |
|--------------|-------------------------|-----------|------------|
| Site no. | : 10m Chamber | Data no. | : 1 |
| Dis. / Ant. | : 10m 2020 VULB9168-493 | Ant. pol. | : VERTICAL |
| Limit | : EN55032 B(10M) | Pressure | : 101.6kPa |
| Env. / Ins. | : 21.6°C/42% | Engineer | : Dream |
| EUT | : M/N:AG274Q | | |
| Power rating | : AC 230V/50Hz | | |
| Test Mode | : Running ITU-R BT 1729 | | |
| | HDMI1:2560*1440@144Hz | | |
| | Line:1.8m | | |

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-------------------------|-----------------|-------------|--------|
| 1 | 45.520 | 19.40 | 1.10 | 4.30 | 24.80 | 30.00 | 5.20 | QP |
| 2 | 75.590 | 15.90 | 1.35 | 6.65 | 23.90 | 30.00 | 6.10 | QP |
| 3 | 93.050 | 13.60 | 1.48 | 10.35 | 25.43 | 30.00 | 4.57 | QP |
| 4 | 110.510 | 16.00 | 1.59 | 8.40 | 25.99 | 30.00 | 4.01 | QP* |
| 5 | 149.310 | 19.30 | 1.78 | 4.48 | 25.56 | 30.00 | 4.44 | QP |
| 6 | 222.060 | 15.56 | 2.16 | 7.52 | 25.24 | 30.00 | 4.76 | QP |

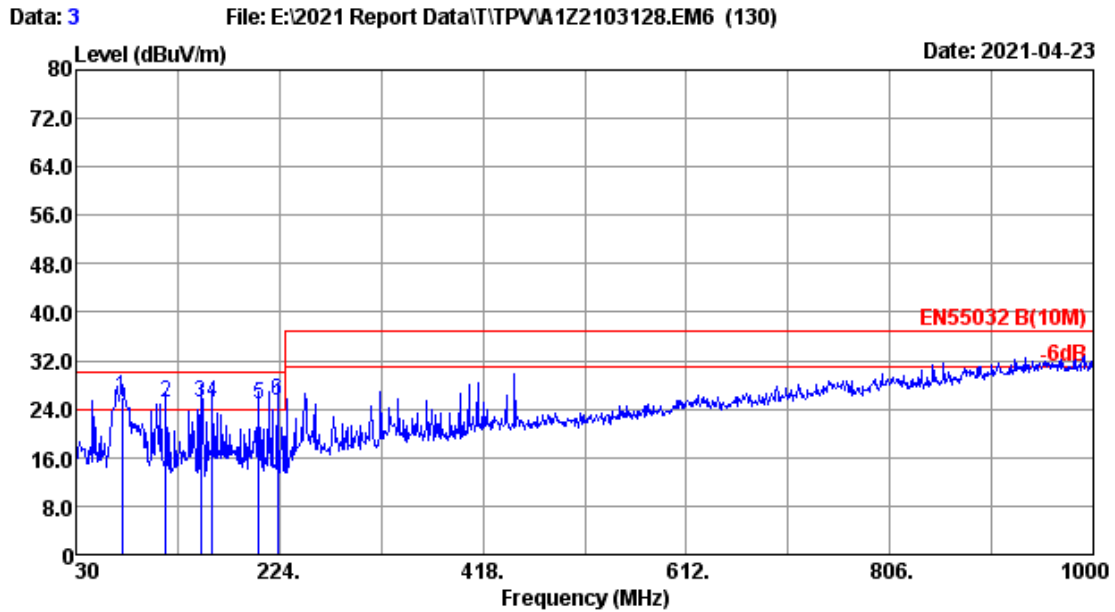
- Remarks:
1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.
 3. The worst emission was detected at 110.510MHz with corrected signal level of 25.99dBuV/m. (Antenna height 2.4m; Turntable degree 149°).
 4. 0° was the table front facing the antenna. Degree is calculated from 0°clockwise facing the antenna



| | | | |
|--------------|--------------------------|-----------|--------------|
| Site no. | : 10m Chamber | Data no. | : 4 |
| Dis. / Ant. | : 10m 2020 VULB9168-429 | Ant. pol. | : HORIZONTAL |
| Limit | : EN55032 B(10M) | Pressure | : 101.6kPa |
| Env. / Ins. | : 21.6°C/42% | Engineer | : Dream |
| EUT | : M/N:AG274Q | | |
| Power rating | : AC 230V/50Hz | | |
| Test Mode | : Running ITU-R BT 471-1 | | |
| | HDMI1:2560*1440@144Hz | | |
| | Line:1.8m | | |

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-------------------------|-----------------|-------------|--------|
| 1 | 106.630 | 16.10 | 0.94 | 3.36 | 20.40 | 30.00 | 9.60 | QP |
| 2 | 124.090 | 17.40 | 1.02 | 1.82 | 20.24 | 30.00 | 9.76 | QP |
| 3 | 146.400 | 19.40 | 1.13 | 3.77 | 24.30 | 30.00 | 5.70 | QP |
| 4 | 149.310 | 19.40 | 1.14 | 3.62 | 24.16 | 30.00 | 5.84 | QP |
| 5 | 204.600 | 15.50 | 1.42 | 3.39 | 20.31 | 30.00 | 9.69 | QP |
| 6 | 222.060 | 15.54 | 1.50 | 3.91 | 20.95 | 30.00 | 9.05 | QP |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

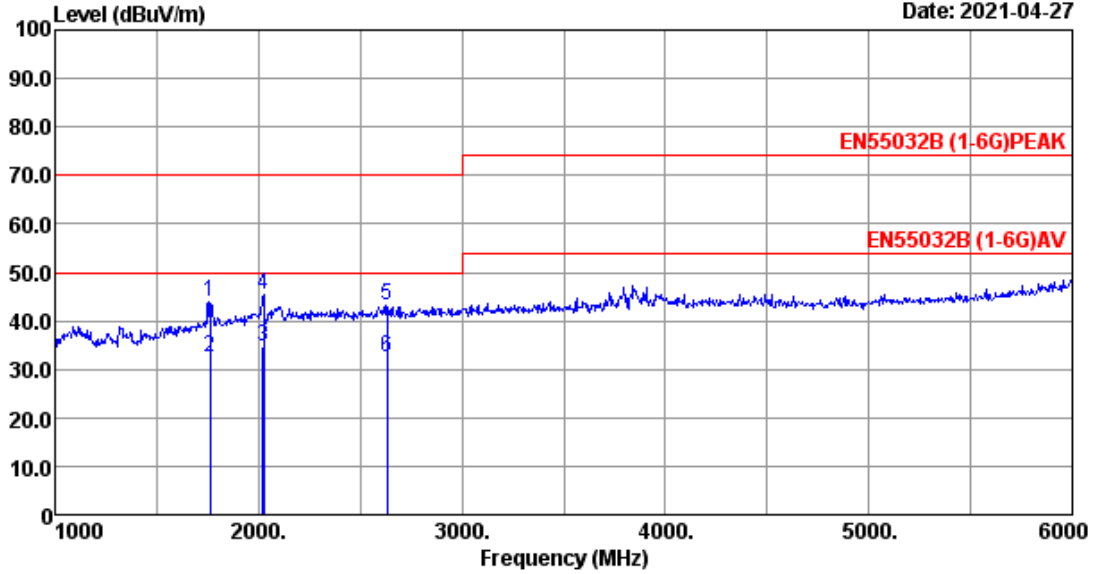


| | | | |
|--------------|--------------------------|-----------|------------|
| Site no. | : 10m Chamber | Data no. | : 3 |
| Dis. / Ant. | : 10m 2020 VULB9168-493 | Ant. pol. | : VERTICAL |
| Limit | : EN55032 B(10M) | Pressure | : 101.6kPa |
| Env. / Ins. | : 21.6°C/42% | Engineer | : Dream |
| EUT | : M/N:AG274Q | | |
| Power rating | : AC 230V/50Hz | | |
| Test Mode | : Running ITU-R BT 471-1 | | |
| | HDMI1:2560*1440@144Hz | | |
| | Line:1.8m | | |

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-------------------------|-----------------|-------------|--------|
| 1 | 73.650 | 16.40 | 1.34 | 8.18 | 25.92 | 30.00 | 4.08 | QP |
| 2 | 115.360 | 16.30 | 1.61 | 7.03 | 24.94 | 30.00 | 5.06 | QP |
| 3 | 149.310 | 19.30 | 1.78 | 4.06 | 25.14 | 30.00 | 4.86 | QP |
| 4 | 159.980 | 19.20 | 1.84 | 4.07 | 25.11 | 30.00 | 4.89 | QP |
| 5 | 204.600 | 15.60 | 2.07 | 7.20 | 24.87 | 30.00 | 5.13 | QP |
| 6 | 222.060 | 15.56 | 2.16 | 7.55 | 25.27 | 30.00 | 4.73 | QP |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 28 File: E:\2021 Report Data\ITPVA122103128.EM6 (130) Date: 2021-04-27

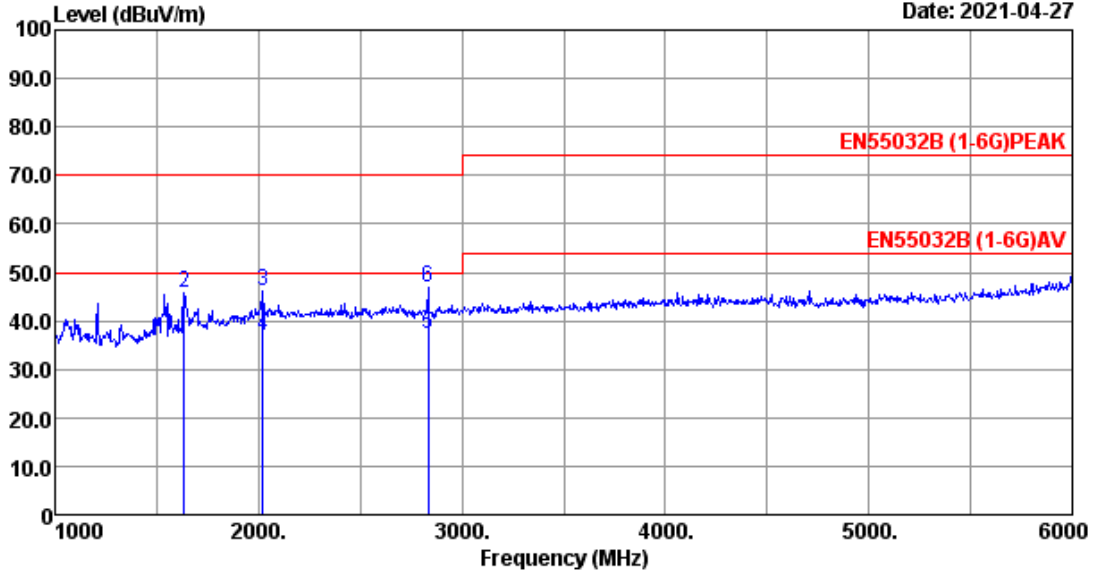


| | |
|-----------------------------------|------------------------|
| Site no. : 10m Chamber | Data no. : 28 |
| Dis. / Ant. : 3m 2020 3117 | Ant. pol. : HORIZONTAL |
| Limit : EN55032B (1-6G)PEAK | Pressure : 101.6kPa |
| Env. / Ins. : 21.6°C/42% | Engineer : Fire |
| EUT : M/N:AG274Q | |
| Power rating : AC 230V/50Hz | |
| Test Mode : Running ITU-R BT 1729 | |
| HDMI1:2560*1440@144Hz | |
| Line:1.8m | |

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission | | | Remark |
|-----|-------------|--------------------|-----------------|-----------------|----------------|----------------|-----------------|-------------|---------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | |
| 1 | 1760.745 | 30.32 | 3.65 | 33.97 | 43.82 | 43.82 | 70.00 | 26.18 | Peak |
| 2 | 1762.635 | 30.32 | 3.65 | 33.90 | 32.48 | 32.55 | 50.00 | 17.45 | Average |
| 3 | 2022.624 | 32.00 | 3.93 | 33.28 | 32.16 | 34.81 | 50.00 | 15.19 | Average |
| 4 | 2025.000 | 32.00 | 3.93 | 33.28 | 42.61 | 45.26 | 70.00 | 24.74 | Peak |
| 5 | 2630.419 | 32.26 | 4.67 | 32.79 | 38.89 | 43.03 | 70.00 | 26.97 | Peak |
| 6 | 2632.968 | 32.26 | 4.67 | 32.79 | 28.45 | 32.59 | 50.00 | 17.41 | Average |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

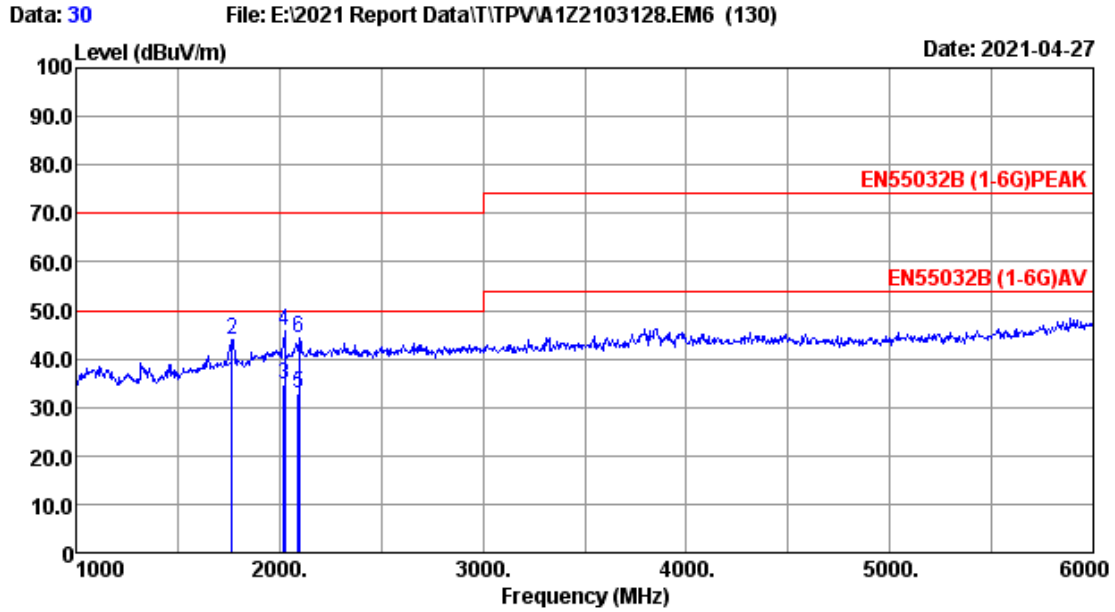
Data: 27 File: E:\2021 Report Data\ITPVA122103128.EM6 (130) Date: 2021-04-27



| | | | |
|--------------|-------------------------|-----------|------------|
| Site no. | : 10m Chamber | Data no. | : 27 |
| Dis. / Ant. | : 3m 2020 3117 | Ant. pol. | : VERTICAL |
| Limit | : EN55032B (1-6G) PEAK | Pressure | : 101.6kPa |
| Env. / Ins. | : 21.6°C/42% | Engineer | : Fire |
| EUT | : M/N:AG274Q | | |
| Power rating | : AC 230V/50Hz | | |
| Test Mode | : Running ITU-R BT 1729 | | |
| | HDMI1:2560*1440@144Hz | | |
| | Line:1.8m | | |

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|-----------------|----------------|-------------------------|-----------------|-------------|---------|
| 1 | 1632.985 | 29.36 | 3.51 | 34.23 | 36.14 | 34.78 | 50.00 | 15.22 | Average |
| 2 | 1635.455 | 29.36 | 3.51 | 34.23 | 46.96 | 45.60 | 70.00 | 24.40 | Peak |
| 3 | 2020.452 | 32.00 | 3.93 | 33.30 | 43.42 | 46.05 | 70.00 | 23.95 | Peak |
| 4 | 2022.745 | 32.00 | 3.93 | 33.28 | 34.16 | 36.81 | 50.00 | 13.19 | Average |
| 5 | 2832.848 | 32.50 | 4.92 | 32.63 | 32.35 | 37.14 | 50.00 | 12.86 | Average |
| 6 | 2835.452 | 32.50 | 4.92 | 32.63 | 42.05 | 46.84 | 70.00 | 23.16 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

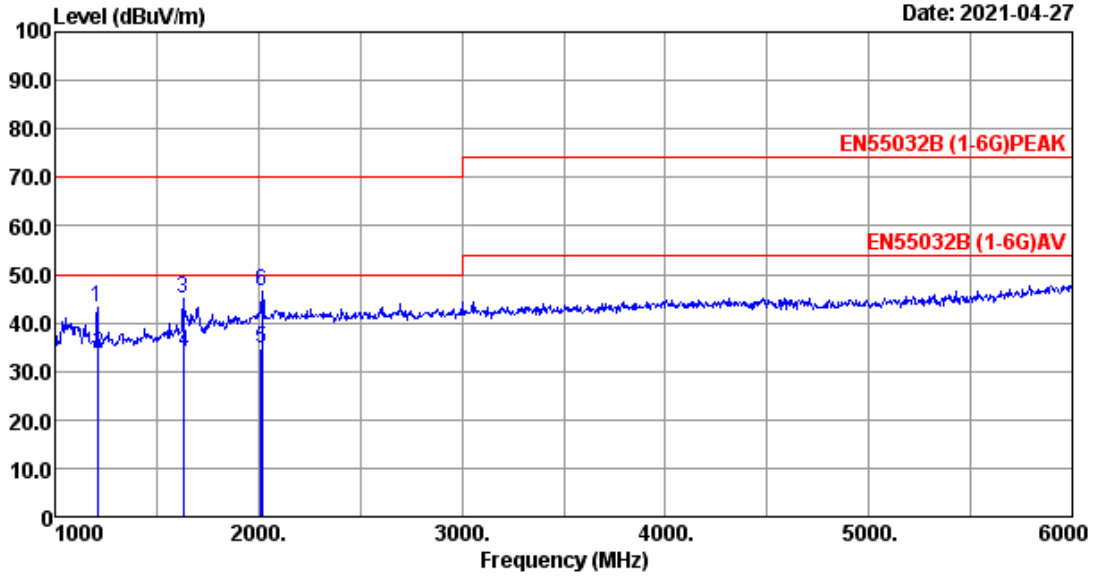


| | |
|------------------------------------|------------------------|
| Site no. : 10m Chamber | Data no. : 30 |
| Dis. / Ant. : 3m 2020 3117 | Ant. pol. : HORIZONTAL |
| Limit : EN55032B (1-6G)PEAK | Pressure : 101.6kPa |
| Env. / Ins. : 21.6°C/42% | Engineer : Fire |
| EUT : M/N:AG274Q | |
| Power rating : AC 230V/50Hz | |
| Test Mode : Running ITU-R BT 471-1 | |
| HDMI1:2560*1440@144Hz | |
| Line:1.8m | |

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission | | | |
|-----|-------------|--------------------|-----------------|-----------------|----------------|----------------|-----------------|-------------|---------|
| | | | | | | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
| 1 | 1765.449 | 30.32 | 3.65 | 33.90 | 35.15 | 35.22 | 50.00 | 14.78 | Average |
| 2 | 1765.635 | 30.32 | 3.65 | 33.90 | 44.01 | 44.08 | 70.00 | 25.92 | Peak |
| 3 | 2022.748 | 32.00 | 3.93 | 33.28 | 32.17 | 34.82 | 50.00 | 15.18 | Average |
| 4 | 2025.415 | 32.00 | 3.93 | 33.28 | 43.04 | 45.69 | 70.00 | 24.31 | Peak |
| 5 | 2092.748 | 32.02 | 4.02 | 33.24 | 30.15 | 32.95 | 50.00 | 17.05 | Average |
| 6 | 2095.745 | 32.02 | 4.02 | 33.24 | 41.42 | 44.22 | 70.00 | 25.78 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Data: 29 File: E:\2021 Report Data\ITPVA122103128.EM6 (130) Date: 2021-04-27



| | | | |
|--------------|--------------------------|-----------|------------|
| Site no. | : 10m Chamber | Data no. | : 29 |
| Dis. / Ant. | : 3m 2020 3117 | Ant. pol. | : VERTICAL |
| Limit | : EN55032B (1-6G) PEAK | Pressure | : 101.6kPa |
| Env. / Ins. | : 21.6°C/42% | Engineer | : Fire |
| EUT | : M/N:AG274Q | | |
| Power rating | : AC 230V/50Hz | | |
| Test Mode | : Running ITU-R BT 471-1 | | |
| | HDMI1:2560*1440@144Hz | | |
| | Line:1.8m | | |

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|-----------------|----------------|-------------------------|-----------------|-------------|---------|
| 1 | 1210.549 | 27.40 | 3.03 | 35.37 | 48.25 | 43.31 | 70.00 | 26.69 | Peak |
| 2 | 1212.638 | 27.46 | 3.03 | 35.37 | 38.34 | 33.46 | 50.00 | 16.54 | Average |
| 3 | 1630.419 | 29.36 | 3.51 | 34.30 | 46.48 | 45.05 | 70.00 | 24.95 | Peak |
| 4 | 1632.748 | 29.36 | 3.51 | 34.23 | 35.14 | 33.78 | 50.00 | 16.22 | Average |
| 5 | 2012.875 | 32.00 | 3.93 | 33.30 | 32.16 | 34.79 | 50.00 | 15.21 | Average |
| 6 | 2015.000 | 32.00 | 3.93 | 33.30 | 43.93 | 46.56 | 70.00 | 23.44 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

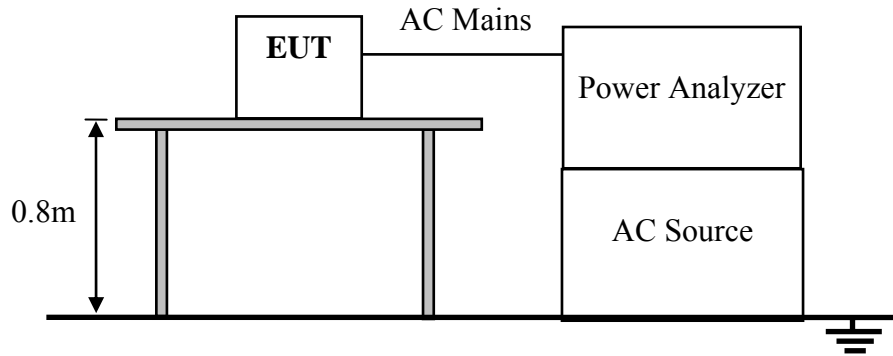
5. HARMONIC CURRENT TEST

5.1. Test Equipments

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------|------------------------|------------|------------|-----------|---------------|
| 1. | H/F Room | AUDIX | N/A | N/A | Apr.16,19 | 3 Year |
| 2. | AC Power Source | California Instruments | 5001ix | 58481 | Oct.12,20 | 1 Year |
| 3. | Impedance Network | California Instruments | OMNI 1-18i | 1247A02235 | Oct.12,20 | 1 Year |
| 4. | Power Analyzer | California Instruments | PACS-1 | 72627 | Oct.12,20 | 1 Year |
| 5. | Test Software | California Instruments | CTS 4.0 | V 4.26 | N/A | N/A |

Note: N/A means Not applicable.

5.2. Block Diagram of Test Setup



5.3. Test Standard

- EN 61000-3-2: 2014
- IEC 61000-3-2: 2014
- EN IEC 61000-3-2: 2019
- IEC 61000-3-2: 2018
- BS EN 61000-3-2: 2014;
- BS EN IEC 61000-3-2: 2019; Class D

5.4. Limits of Harmonic Current

| Limits for Class D Equipment | | |
|---------------------------------|--|--|
| Harmonic order (n) | Maximum permissible harmonic current per watt (mA/W) | Maximum permissible harmonic current (A) |
| 3 | 3.4 | 2.30 |
| 5 | 1.9 | 1.14 |
| 7 | 1.0 | 0.77 |
| 9 | 0.5 | 0.40 |
| 11 | 0.35 | 0.33 |
| 13 | 0.30 | 0.21 |
| 15 ≤ n ≤ 39 (odd harmonic only) | 3.85/n | 0.15 × 15/n |

Remark: if the EUT Power level is below 75 Watts and therefore has no defined limits.

5.5.EUT Configuration on Test

The configurations of EUT are listed in Section 3.5.

5.6.Operating Condition of EUT

Same as Conducted Emission test that listed in Section 3.6. except the test set up replaced by Section 5.2.

5.7.Test Procedure

The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under normal operating conditions for each successive harmonic component in turn. The correspondent test program of test instrument to measure the current harmonics emanated from EUT is chosen. The measure time shall be not less than the necessary for the EUT to be exercised.

5.8.Test Results

PASS. (Test results are recorded in next page)

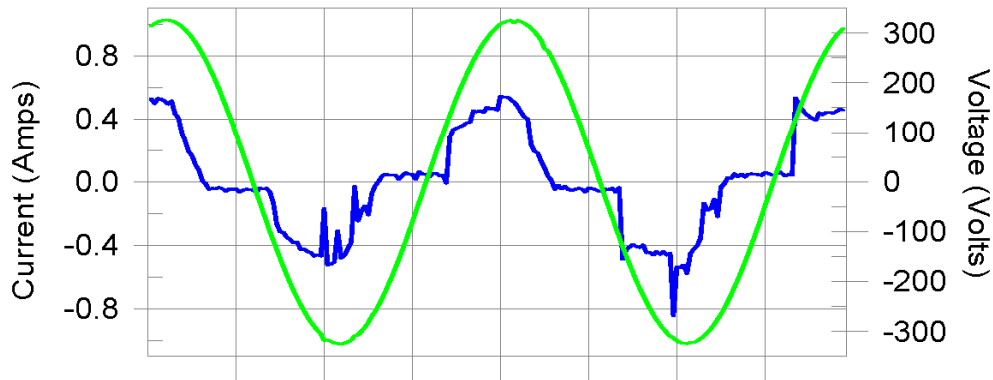
Harmonics – Class-D per Ed. 5.0 (2018)(Run time)

EUT: M/N:AG274Q
 Test category: Class-D per Ed. 5.0 (2018) (European limits)
 Test date: 2021-4-20 Start time: 9:56:56
 Test duration (min): 2.5 Data file name: H-001209.cts_data
 Comment: Running "H" Pattern And 1KHz Playing
 Customer: TPV

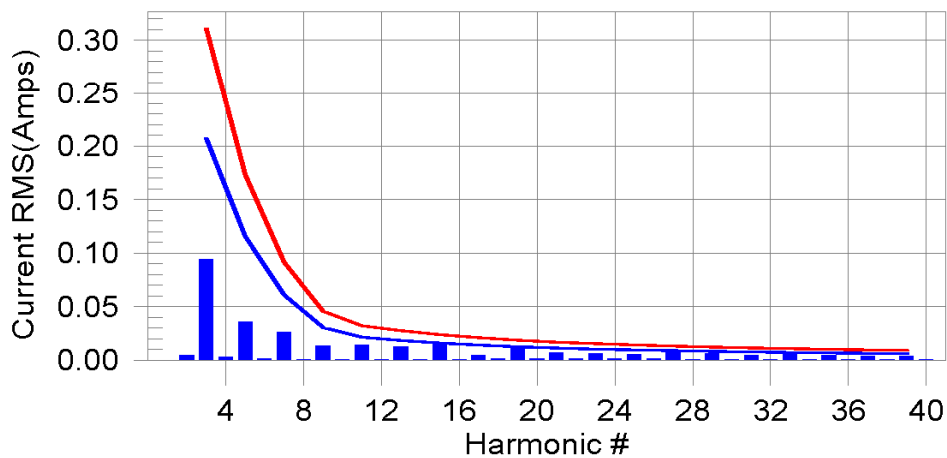
Tested by: Kennen
 Test Margin: 100
 End time: 9:59:37

Test Result: N/L Source qualification: Normal

Current & voltage waveforms



Harmonics and Class D limit line European Limits



Test result: N/L Worst harmonics H0-0.0% of 150% limit, H0-0% of 100% limit

Current Test Result Summary (Run time)

EUT: M/N:AG274Q Tested by: Kennen
 Test category: Class-D per Ed. 5.0 (2018) (European limits) Test Margin: 100
 Test date: 2021-4-20 Start time: 9:56:56 End time: 9:59:37
 Test duration (min): 2.5 Data file name: H-001209.cts_data
 Comment: Running "H" Pattern And 1KHz Playing
 Customer: TPV

Test Result: N/L Source qualification: Normal
 THCA(A): 0.110 I-THD(%): 37.4 POHC(A): 0.017 POHC Limit(A): 0.026

Highest parameter values during test:

| | |
|-----------------------|----------------------|
| V_RMS (Volts): 230.07 | Frequency(Hz): 50.00 |
| I_Peak (Amps): 0.888 | I_RMS (Amps): 0.316 |
| I_Fund (Amps): 0.293 | Crest Factor: 2.824 |
| Power (Watts): 60.9 | Power Factor: 0.843 |

| Harm# | Harms(avg) | 100%Limit | %of Limit | Harms(max) | 150%Limit | %of Limit | Status |
|-------|------------|-----------|-----------|------------|-----------|-----------|--------|
| 2 | 0.005 | 0.000 | N/A | 0.006 | 0.000 | N/A | N/L |
| 3 | 0.094 | 0.207 | N/A | 0.095 | 0.311 | N/A | N/L |
| 4 | 0.003 | 0.000 | N/A | 0.004 | 0.000 | N/A | N/L |
| 5 | 0.036 | 0.116 | N/A | 0.037 | 0.174 | N/A | N/L |
| 6 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 7 | 0.026 | 0.061 | N/A | 0.027 | 0.091 | N/A | N/L |
| 8 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 9 | 0.013 | 0.030 | N/A | 0.014 | 0.046 | N/A | N/L |
| 10 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 11 | 0.014 | 0.021 | N/A | 0.015 | 0.032 | N/A | N/L |
| 12 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 13 | 0.012 | 0.018 | N/A | 0.013 | 0.027 | N/A | N/L |
| 14 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 15 | 0.015 | 0.016 | N/A | 0.016 | 0.024 | N/A | N/L |
| 16 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 17 | 0.004 | 0.014 | N/A | 0.005 | 0.021 | N/A | N/L |
| 18 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 19 | 0.011 | 0.012 | N/A | 0.011 | 0.019 | N/A | N/L |
| 20 | 0.001 | 0.000 | N/A | 0.002 | 0.000 | N/A | N/L |
| 21 | 0.007 | 0.011 | N/A | 0.008 | 0.017 | N/A | N/L |
| 22 | 0.001 | 0.000 | N/A | 0.002 | 0.000 | N/A | N/L |
| 23 | 0.006 | 0.010 | N/A | 0.007 | 0.015 | N/A | N/L |
| 24 | 0.001 | 0.000 | N/A | 0.002 | 0.000 | N/A | N/L |
| 25 | 0.005 | 0.009 | N/A | 0.006 | 0.014 | N/A | N/L |
| 26 | 0.001 | 0.000 | N/A | 0.002 | 0.000 | N/A | N/L |
| 27 | 0.008 | 0.009 | N/A | 0.009 | 0.013 | N/A | N/L |
| 28 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 29 | 0.006 | 0.008 | N/A | 0.007 | 0.012 | N/A | N/L |
| 30 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 31 | 0.004 | 0.008 | N/A | 0.005 | 0.011 | N/A | N/L |
| 32 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 33 | 0.005 | 0.007 | N/A | 0.006 | 0.011 | N/A | N/L |
| 34 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 35 | 0.004 | 0.007 | N/A | 0.005 | 0.010 | N/A | N/L |
| 36 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 37 | 0.003 | 0.006 | N/A | 0.004 | 0.010 | N/A | N/L |
| 38 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 39 | 0.004 | 0.006 | N/A | 0.004 | 0.009 | N/A | N/L |
| 40 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |

Note: The EUT power level is below 75.0 Watts and therefore has no defined limits

Voltage Source Verification Data (Run time)

EUT: M/N:AG274Q Tested by: Kennen
 Test category: Class-D per Ed. 5.0 (2018) (European limits) Test Margin: 100
 Test date: 2021-4-20 Start time: 9:56:56 End time: 9:59:37
 Test duration (min): 2.5 Data file name: H-001209.cts_data
 Comment: Running "H" Pattern And 1KHz Playing
 Customer: TPV

Test Result: N/L Source qualification: Normal

Highest parameter values during test:

| | |
|------------------------|----------------------|
| Voltage (Vrms): 230.07 | Frequency(Hz): 50.00 |
| I_Peak (Amps): 0.888 | I_RMS (Amps): 0.316 |
| I_Fund (Amps): 0.293 | Crest Factor: 2.824 |
| Power (Watts): 60.9 | Power Factor: 0.843 |

| Harm# | Harmonics V-rms | Limit V-rms | % of Limit | Status |
|-------|-----------------|-------------|------------|--------|
| 2 | 0.098 | 0.460 | 21.21 | OK |
| 3 | 0.468 | 2.070 | 22.60 | OK |
| 4 | 0.057 | 0.460 | 12.42 | OK |
| 5 | 0.055 | 0.920 | 5.93 | OK |
| 6 | 0.037 | 0.460 | 8.04 | OK |
| 7 | 0.058 | 0.690 | 8.39 | OK |
| 8 | 0.026 | 0.460 | 5.73 | OK |
| 9 | 0.027 | 0.460 | 5.90 | OK |
| 10 | 0.027 | 0.460 | 5.97 | OK |
| 11 | 0.023 | 0.230 | 9.85 | OK |
| 12 | 0.026 | 0.230 | 11.43 | OK |
| 13 | 0.021 | 0.230 | 9.11 | OK |
| 14 | 0.019 | 0.230 | 8.43 | OK |
| 15 | 0.025 | 0.230 | 10.81 | OK |
| 16 | 0.021 | 0.230 | 8.92 | OK |
| 17 | 0.022 | 0.230 | 9.69 | OK |
| 18 | 0.031 | 0.230 | 13.27 | OK |
| 19 | 0.033 | 0.230 | 14.39 | OK |
| 20 | 0.037 | 0.230 | 16.21 | OK |
| 21 | 0.034 | 0.230 | 14.60 | OK |
| 22 | 0.041 | 0.230 | 17.77 | OK |
| 23 | 0.042 | 0.230 | 18.42 | OK |
| 24 | 0.038 | 0.230 | 16.46 | OK |
| 25 | 0.037 | 0.230 | 16.08 | OK |
| 26 | 0.029 | 0.230 | 12.80 | OK |
| 27 | 0.028 | 0.230 | 12.00 | OK |
| 28 | 0.022 | 0.230 | 9.49 | OK |
| 29 | 0.026 | 0.230 | 11.12 | OK |
| 30 | 0.019 | 0.230 | 8.47 | OK |
| 31 | 0.020 | 0.230 | 8.60 | OK |
| 32 | 0.020 | 0.230 | 8.67 | OK |
| 33 | 0.020 | 0.230 | 8.64 | OK |
| 34 | 0.020 | 0.230 | 8.64 | OK |
| 35 | 0.022 | 0.230 | 9.37 | OK |
| 36 | 0.017 | 0.230 | 7.51 | OK |
| 37 | 0.017 | 0.230 | 7.54 | OK |
| 38 | 0.018 | 0.230 | 8.04 | OK |
| 39 | 0.021 | 0.230 | 9.07 | OK |
| 40 | 0.020 | 0.230 | 8.69 | OK |

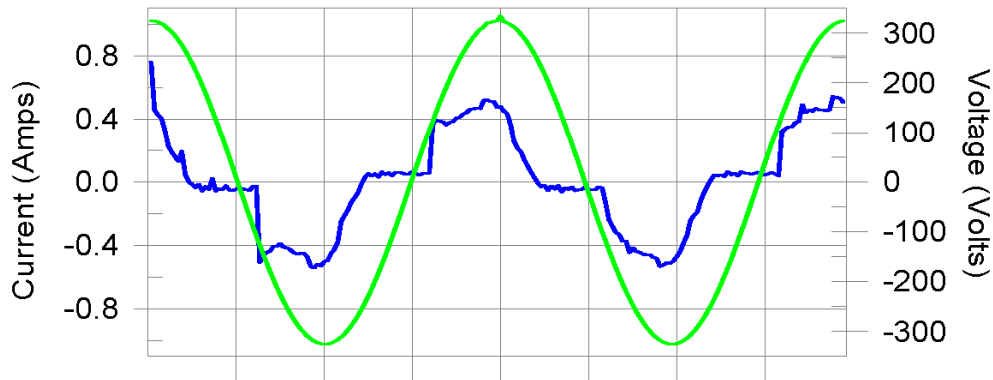
Harmonics – Class-D per Ed. 5.0 (2018)(Run time)

EUT: M/N:AG274Q
 Test category: Class-D per Ed. 5.0 (2018) (European limits)
 Test date: 2021-4-20
 Test duration (min): 2.5
 Comment: Default Mode
 Customer: TPV

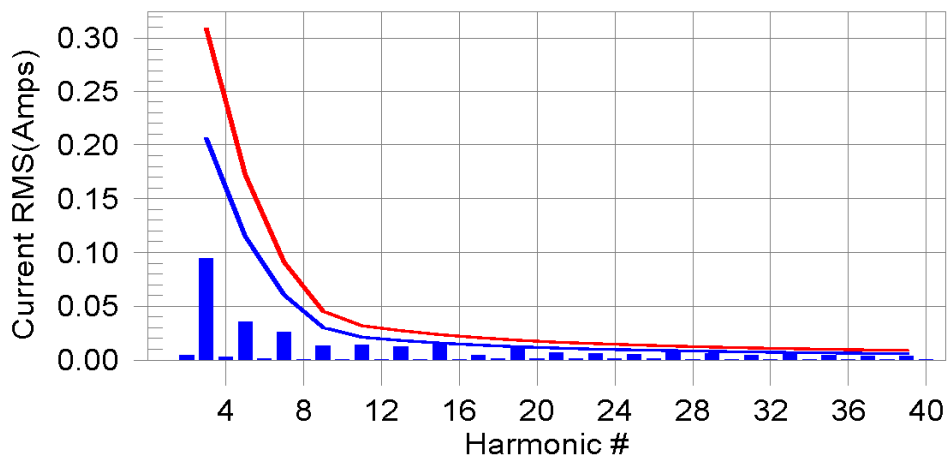
Tested by: Kennen
 Test Margin: 100
 Start time: 10:00:45
 End time: 10:03:26
 Data file name: H-001210.cts_data

Test Result: N/L Source qualification: Normal

Current & voltage waveforms



Harmonics and Class D limit line European Limits



Test result: N/L Worst harmonics H0-0.0% of 150% limit, H0-0% of 100% limit

Current Test Result Summary (Run time)

EUT: M/N:AG274Q Tested by: Kennen
 Test category: Class-D per Ed. 5.0 (2018) (European limits) Test Margin: 100
 Test date: 2021-4-20 Start time: 10:00:45 End time: 10:03:26
 Test duration (min): 2.5 Data file name: H-001210.cts_data
 Comment: Default Mode
 Customer: TPV

Test Result: N/L Source qualification: Normal
 THCA: 0.110 I-THD(%): 37.6 POHC(A): 0.018 POHC Limit(A): 0.026

Highest parameter values during test:

| | |
|-----------------------|----------------------|
| V_RMS (Volts): 230.07 | Frequency(Hz): 50.00 |
| I_Peak (Amps): 0.929 | I_RMS (Amps): 0.315 |
| I_Fund (Amps): 0.292 | Crest Factor: 2.959 |
| Power (Watts): 60.6 | Power Factor: 0.843 |

| Harm# | Harms(avg) | 100%Limit | %of Limit | Harms(max) | 150%Limit | %of Limit | Status |
|-------|------------|-----------|-----------|------------|-----------|-----------|--------|
| 2 | 0.005 | 0.000 | N/A | 0.006 | 0.000 | N/A | N/L |
| 3 | 0.094 | 0.206 | N/A | 0.095 | 0.309 | N/A | N/L |
| 4 | 0.003 | 0.000 | N/A | 0.004 | 0.000 | N/A | N/L |
| 5 | 0.036 | 0.115 | N/A | 0.037 | 0.173 | N/A | N/L |
| 6 | 0.001 | 0.000 | N/A | 0.002 | 0.000 | N/A | N/L |
| 7 | 0.026 | 0.061 | N/A | 0.027 | 0.091 | N/A | N/L |
| 8 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 9 | 0.013 | 0.030 | N/A | 0.013 | 0.045 | N/A | N/L |
| 10 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 11 | 0.014 | 0.021 | N/A | 0.015 | 0.032 | N/A | N/L |
| 12 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 13 | 0.012 | 0.018 | N/A | 0.013 | 0.027 | N/A | N/L |
| 14 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 15 | 0.015 | 0.016 | N/A | 0.015 | 0.024 | N/A | N/L |
| 16 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 17 | 0.004 | 0.014 | N/A | 0.005 | 0.021 | N/A | N/L |
| 18 | 0.001 | 0.000 | N/A | 0.002 | 0.000 | N/A | N/L |
| 19 | 0.011 | 0.012 | N/A | 0.011 | 0.018 | N/A | N/L |
| 20 | 0.001 | 0.000 | N/A | 0.002 | 0.000 | N/A | N/L |
| 21 | 0.007 | 0.011 | N/A | 0.008 | 0.017 | N/A | N/L |
| 22 | 0.001 | 0.000 | N/A | 0.002 | 0.000 | N/A | N/L |
| 23 | 0.006 | 0.010 | N/A | 0.007 | 0.015 | N/A | N/L |
| 24 | 0.001 | 0.000 | N/A | 0.002 | 0.000 | N/A | N/L |
| 25 | 0.005 | 0.009 | N/A | 0.007 | 0.014 | N/A | N/L |
| 26 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 27 | 0.008 | 0.009 | N/A | 0.009 | 0.013 | N/A | N/L |
| 28 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 29 | 0.006 | 0.008 | N/A | 0.007 | 0.012 | N/A | N/L |
| 30 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 31 | 0.004 | 0.008 | N/A | 0.005 | 0.011 | N/A | N/L |
| 32 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 33 | 0.005 | 0.007 | N/A | 0.006 | 0.011 | N/A | N/L |
| 34 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 35 | 0.004 | 0.007 | N/A | 0.004 | 0.010 | N/A | N/L |
| 36 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 37 | 0.003 | 0.006 | N/A | 0.004 | 0.009 | N/A | N/L |
| 38 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 39 | 0.004 | 0.006 | N/A | 0.004 | 0.009 | N/A | N/L |
| 40 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |

Note: The EUT power level is below 75.0 Watts and therefore has no defined limits

Voltage Source Verification Data (Run time)

EUT: M/N:AG274Q
 Test category: Class-D per Ed. 5.0 (2018) (European limits)
 Test date: 2021-4-20
 Test duration (min): 2.5
 Comment: Default Mode
 Customer: TPV

Tested by: Kennen
 Test Margin: 100
 Start time: 10:00:45
 End time: 10:03:26
 Data file name: H-001210.cts_data

Test Result: N/L Source qualification: Normal

Highest parameter values during test:

Voltage (Vrms): 230.07
 I_Peak (Amps): 0.929
 I_Fund (Amps): 0.292
 Power (Watts): 60.6

Frequency(Hz): 50.00
 I_RMS (Amps): 0.315
 Crest Factor: 2.959
 Power Factor: 0.843

| Harm# | Harmonics V-rms | Limit V-rms | % of Limit | Status |
|-------|-----------------|-------------|------------|--------|
| 2 | 0.084 | 0.460 | 18.30 | OK |
| 3 | 0.462 | 2.070 | 22.32 | OK |
| 4 | 0.053 | 0.460 | 11.47 | OK |
| 5 | 0.058 | 0.920 | 6.31 | OK |
| 6 | 0.032 | 0.460 | 6.91 | OK |
| 7 | 0.054 | 0.690 | 7.89 | OK |
| 8 | 0.022 | 0.460 | 4.83 | OK |
| 9 | 0.030 | 0.460 | 6.43 | OK |
| 10 | 0.026 | 0.460 | 5.70 | OK |
| 11 | 0.022 | 0.230 | 9.55 | OK |
| 12 | 0.025 | 0.230 | 10.87 | OK |
| 13 | 0.024 | 0.230 | 10.44 | OK |
| 14 | 0.022 | 0.230 | 9.58 | OK |
| 15 | 0.028 | 0.230 | 11.99 | OK |
| 16 | 0.021 | 0.230 | 9.09 | OK |
| 17 | 0.023 | 0.230 | 9.95 | OK |
| 18 | 0.028 | 0.230 | 12.09 | OK |
| 19 | 0.030 | 0.230 | 12.88 | OK |
| 20 | 0.031 | 0.230 | 13.69 | OK |
| 21 | 0.034 | 0.230 | 14.93 | OK |
| 22 | 0.038 | 0.230 | 16.60 | OK |
| 23 | 0.038 | 0.230 | 16.53 | OK |
| 24 | 0.038 | 0.230 | 16.64 | OK |
| 25 | 0.034 | 0.230 | 14.74 | OK |
| 26 | 0.031 | 0.230 | 13.51 | OK |
| 27 | 0.029 | 0.230 | 12.49 | OK |
| 28 | 0.024 | 0.230 | 10.58 | OK |
| 29 | 0.024 | 0.230 | 10.51 | OK |
| 30 | 0.019 | 0.230 | 8.19 | OK |
| 31 | 0.020 | 0.230 | 8.80 | OK |
| 32 | 0.017 | 0.230 | 7.53 | OK |
| 33 | 0.019 | 0.230 | 8.44 | OK |
| 34 | 0.018 | 0.230 | 7.74 | OK |
| 35 | 0.021 | 0.230 | 8.97 | OK |
| 36 | 0.019 | 0.230 | 8.16 | OK |
| 37 | 0.020 | 0.230 | 8.62 | OK |
| 38 | 0.019 | 0.230 | 8.05 | OK |
| 39 | 0.023 | 0.230 | 10.08 | OK |
| 40 | 0.021 | 0.230 | 9.04 | OK |

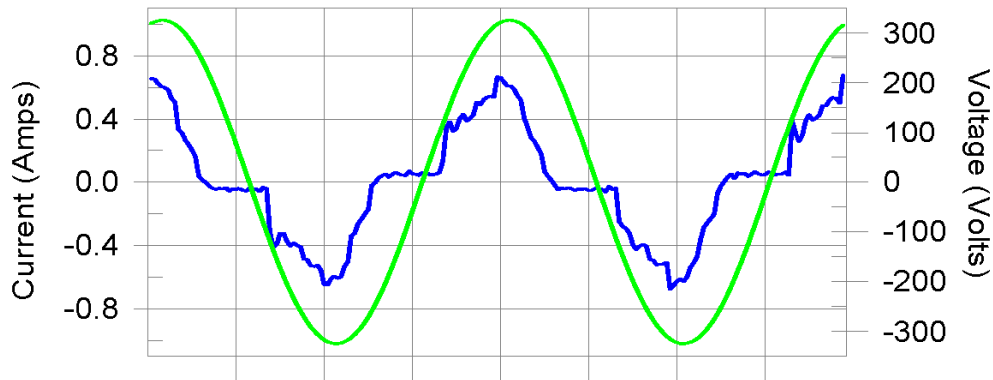
Harmonics – Class-D per Ed. 5.0 (2018)(Run time)

EUT: AG274Q
 Test category: Class-D per Ed. 5.0 (2018) (European limits)
 Test date: 2021-5-7
 Test duration (min): 2.5
 Comment: Running "H" Pattern And 1KHz Playing Adapter: FSP230-AJAN3
 Customer: TPV

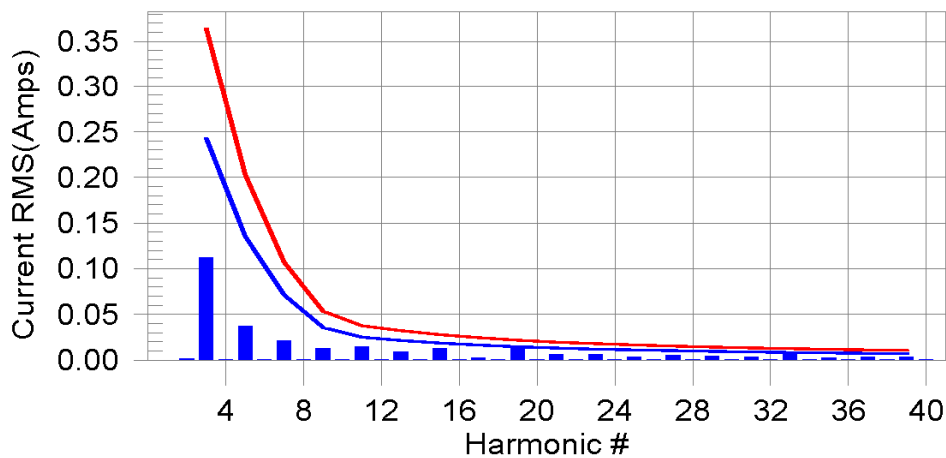
Tested by: Kennen
 Test Margin: 100
 Start time: 16:44:12
 End time: 16:46:53
 Data file name: H-000112.cts_data

Test Result: N/L Source qualification: Normal

Current & voltage waveforms



Harmonics and Class D limit line European Limits



Test result: N/L Worst harmonics H0-0.0% of 150% limit, H0-0% of 100% limit

Current Test Result Summary (Run time)

EUT: AG274Q Tested by: Kennen
 Test category: Class-D per Ed. 5.0 (2018) (European limits) Test Margin: 100
 Test date: 2021-5-7 Start time: 16:44:12 End time: 16:46:53
 Test duration (min): 2.5 Data file name: H-000112.cts_data
 Comment: Running "H" Pattern And 1KHz Playing Adapter: FSP230-AJAN3
 Customer: TPV

Test Result: N/L Source qualification: Normal
 THC(A): 0.125 I-THD(%): 37.6 POHC(A): 0.015 POHC Limit(A): 0.031

Highest parameter values during test:

| | |
|-----------------------|----------------------|
| V_RMS (Volts): 230.08 | Frequency(Hz): 50.00 |
| I_Peak (Amps): 0.706 | I_RMS (Amps): 0.356 |
| I_Fund (Amps): 0.332 | Crest Factor: 1.995 |
| Power (Watts): 71.3 | Power Factor: 0.874 |

| Harm# | Harms(avg) | 100%Limit | %of Limit | Harms(max) | 150%Limit | %of Limit | Status |
|-------|------------|-----------|-----------|------------|-----------|-----------|--------|
| 2 | 0.001 | 0.000 | N/A | 0.002 | 0.000 | N/A | N/L |
| 3 | 0.113 | 0.243 | N/A | 0.114 | 0.364 | N/A | N/L |
| 4 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 5 | 0.038 | 0.136 | N/A | 0.038 | 0.203 | N/A | N/L |
| 6 | 0.000 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 7 | 0.021 | 0.071 | N/A | 0.021 | 0.107 | N/A | N/L |
| 8 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 9 | 0.012 | 0.036 | N/A | 0.013 | 0.053 | N/A | N/L |
| 10 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 11 | 0.014 | 0.025 | N/A | 0.014 | 0.037 | N/A | N/L |
| 12 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 13 | 0.009 | 0.021 | N/A | 0.009 | 0.032 | N/A | N/L |
| 14 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 15 | 0.013 | 0.019 | N/A | 0.013 | 0.028 | N/A | N/L |
| 16 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 17 | 0.003 | 0.016 | N/A | 0.003 | 0.025 | N/A | N/L |
| 18 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 19 | 0.012 | 0.014 | N/A | 0.012 | 0.022 | N/A | N/L |
| 20 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 21 | 0.006 | 0.013 | N/A | 0.007 | 0.020 | N/A | N/L |
| 22 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 23 | 0.006 | 0.012 | N/A | 0.006 | 0.018 | N/A | N/L |
| 24 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 25 | 0.003 | 0.011 | N/A | 0.004 | 0.016 | N/A | N/L |
| 26 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 27 | 0.006 | 0.010 | N/A | 0.006 | 0.015 | N/A | N/L |
| 28 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 29 | 0.004 | 0.009 | N/A | 0.004 | 0.014 | N/A | N/L |
| 30 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 31 | 0.004 | 0.009 | N/A | 0.004 | 0.013 | N/A | N/L |
| 32 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 33 | 0.007 | 0.008 | N/A | 0.008 | 0.012 | N/A | N/L |
| 34 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 35 | 0.003 | 0.008 | N/A | 0.003 | 0.012 | N/A | N/L |
| 36 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 37 | 0.003 | 0.007 | N/A | 0.003 | 0.011 | N/A | N/L |
| 38 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 39 | 0.004 | 0.007 | N/A | 0.004 | 0.011 | N/A | N/L |
| 40 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |

Note: The EUT power level is below 75.0 Watts and therefore has no defined limits

Voltage Source Verification Data (Run time)

EUT: AG274Q Tested by: Kennen
 Test category: Class-D per Ed. 5.0 (2018) (European limits) Test Margin: 100
 Test date: 2021-5-7 Start time: 16:44:12 End time: 16:46:53
 Test duration (min): 2.5 Data file name: H-000112.cts_data
 Comment: Running "H" Pattern And 1KHz Playing Adapter: FSP230-AJAN3
 Customer: TPV

Test Result: N/L Source qualification: Normal

Highest parameter values during test:

| | |
|------------------------|----------------------|
| Voltage (Vrms): 230.08 | Frequency(Hz): 50.00 |
| I_Peak (Amps): 0.706 | I_RMS (Amps): 0.356 |
| I_Fund (Amps): 0.332 | Crest Factor: 1.995 |
| Power (Watts): 71.3 | Power Factor: 0.874 |

| Harm# | Harmonics V-rms | Limit V-rms | % of Limit | Status |
|-------|-----------------|-------------|------------|--------|
| 2 | 0.096 | 0.460 | 20.91 | OK |
| 3 | 0.469 | 2.070 | 22.66 | OK |
| 4 | 0.058 | 0.460 | 12.52 | OK |
| 5 | 0.049 | 0.920 | 5.31 | OK |
| 6 | 0.035 | 0.460 | 7.52 | OK |
| 7 | 0.050 | 0.690 | 7.18 | OK |
| 8 | 0.016 | 0.460 | 3.47 | OK |
| 9 | 0.021 | 0.460 | 4.52 | OK |
| 10 | 0.017 | 0.460 | 3.66 | OK |
| 11 | 0.015 | 0.230 | 6.62 | OK |
| 12 | 0.018 | 0.230 | 7.73 | OK |
| 13 | 0.013 | 0.230 | 5.68 | OK |
| 14 | 0.009 | 0.230 | 3.81 | OK |
| 15 | 0.018 | 0.230 | 7.82 | OK |
| 16 | 0.010 | 0.230 | 4.30 | OK |
| 17 | 0.007 | 0.230 | 2.83 | OK |
| 18 | 0.015 | 0.230 | 6.41 | OK |
| 19 | 0.015 | 0.230 | 6.57 | OK |
| 20 | 0.012 | 0.230 | 5.06 | OK |
| 21 | 0.007 | 0.230 | 3.08 | OK |
| 22 | 0.004 | 0.230 | 1.95 | OK |
| 23 | 0.012 | 0.230 | 5.37 | OK |
| 24 | 0.006 | 0.230 | 2.39 | OK |
| 25 | 0.009 | 0.230 | 4.09 | OK |
| 26 | 0.005 | 0.230 | 2.26 | OK |
| 27 | 0.014 | 0.230 | 6.22 | OK |
| 28 | 0.006 | 0.230 | 2.52 | OK |
| 29 | 0.012 | 0.230 | 5.12 | OK |
| 30 | 0.003 | 0.230 | 1.44 | OK |
| 31 | 0.008 | 0.230 | 3.58 | OK |
| 32 | 0.005 | 0.230 | 2.01 | OK |
| 33 | 0.012 | 0.230 | 5.06 | OK |
| 34 | 0.004 | 0.230 | 1.63 | OK |
| 35 | 0.005 | 0.230 | 2.34 | OK |
| 36 | 0.004 | 0.230 | 1.56 | OK |
| 37 | 0.004 | 0.230 | 1.85 | OK |
| 38 | 0.003 | 0.230 | 1.48 | OK |
| 39 | 0.009 | 0.230 | 3.96 | OK |
| 40 | 0.004 | 0.230 | 1.58 | OK |

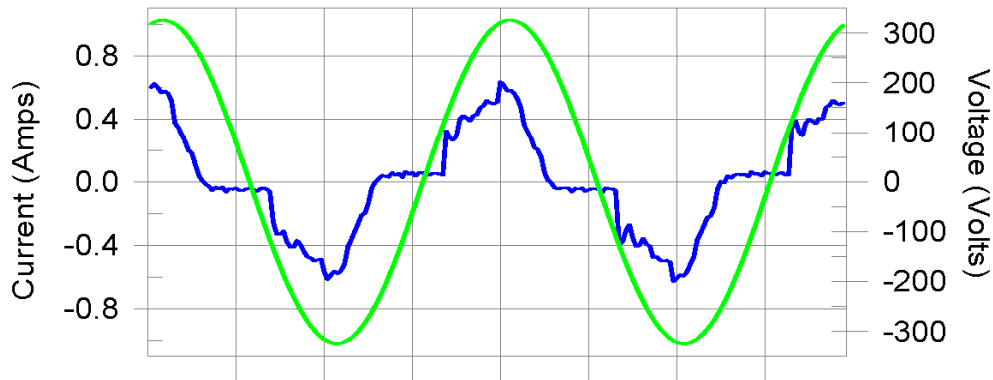
Harmonics – Class-D per Ed. 5.0 (2018)(Run time)

EUT: AG274Q
 Test category: Class-D per Ed. 5.0 (2018) (European limits)
 Test date: 2021-5-7
 Test duration (min): 2.5
 Comment: Default Mode Adapter: FSP230-AJAN3
 Customer: TPV

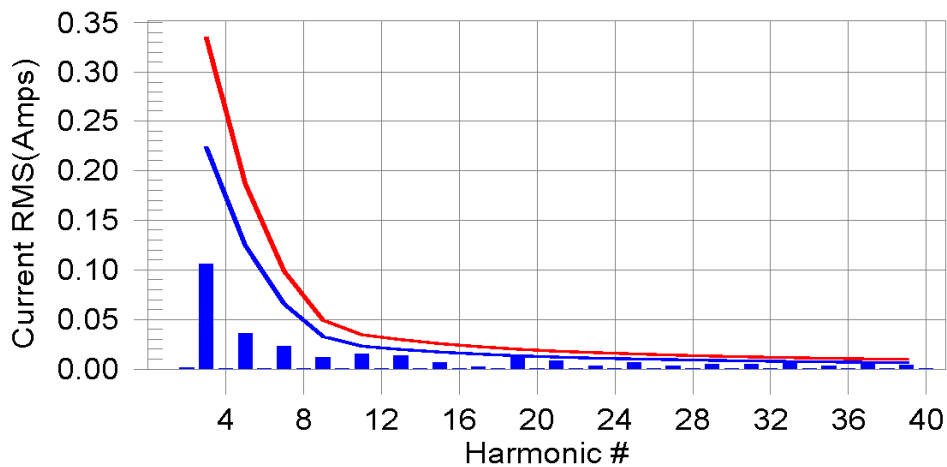
Tested by: Kennen
 Test Margin: 100
 Start time: 16:47:55
 End time: 16:50:37
 Data file name: H-000113.cts_data

Test Result: N/L Source qualification: Normal

Current & voltage waveforms



Harmonics and Class D limit line European Limits



Test result: N/L Worst harmonics H0-0.0% of 150% limit, H0-0% of 100% limit

Current Test Result Summary (Run time)

EUT: AG274Q Tested by: Kennen
 Test category: Class-D per Ed. 5.0 (2018) (European limits) Test Margin: 100
 Test date: 2021-5-7 Start time: 16:47:55 End time: 16:50:37
 Test duration (min): 2.5 Data file name: H-000113.cts_data
 Comment: Default Mode Adapter: FSP230-AJAN3
 Customer: TPV

Test Result: N/L Source qualification: Normal
 THC(A): 0.118 I-THD(%): 38.4 POHC(A): 0.016 POHC Limit(A): 0.028

Highest parameter values during test:

| | |
|-----------------------|----------------------|
| V_RMS (Volts): 230.08 | Frequency(Hz): 50.00 |
| I_Peak (Amps): 0.668 | I_RMS (Amps): 0.335 |
| I_Fund (Amps): 0.307 | Crest Factor: 2.027 |
| Power (Watts): 65.6 | Power Factor: 0.865 |

| Harm# | Harms(avg) | 100%Limit | %of Limit | Harms(max) | 150%Limit | %of Limit | Status |
|-------|------------|-----------|-----------|------------|-----------|-----------|--------|
| 2 | 0.001 | 0.000 | N/A | 0.002 | 0.000 | N/A | N/L |
| 3 | 0.105 | 0.223 | N/A | 0.106 | 0.335 | N/A | N/L |
| 4 | 0.001 | 0.000 | N/A | 0.001 | 0.000 | N/A | N/L |
| 5 | 0.036 | 0.125 | N/A | 0.036 | 0.187 | N/A | N/L |
| 6 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 7 | 0.023 | 0.066 | N/A | 0.023 | 0.098 | N/A | N/L |
| 8 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 9 | 0.011 | 0.033 | N/A | 0.012 | 0.049 | N/A | N/L |
| 10 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 11 | 0.015 | 0.023 | N/A | 0.016 | 0.034 | N/A | N/L |
| 12 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 13 | 0.013 | 0.020 | N/A | 0.014 | 0.030 | N/A | N/L |
| 14 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 15 | 0.007 | 0.017 | N/A | 0.007 | 0.026 | N/A | N/L |
| 16 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 17 | 0.003 | 0.015 | N/A | 0.003 | 0.023 | N/A | N/L |
| 18 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 19 | 0.011 | 0.013 | N/A | 0.012 | 0.020 | N/A | N/L |
| 20 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 21 | 0.008 | 0.012 | N/A | 0.009 | 0.018 | N/A | N/L |
| 22 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 23 | 0.003 | 0.011 | N/A | 0.004 | 0.016 | N/A | N/L |
| 24 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 25 | 0.007 | 0.010 | N/A | 0.007 | 0.015 | N/A | N/L |
| 26 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 27 | 0.004 | 0.009 | N/A | 0.004 | 0.014 | N/A | N/L |
| 28 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 29 | 0.005 | 0.009 | N/A | 0.005 | 0.013 | N/A | N/L |
| 30 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 31 | 0.004 | 0.008 | N/A | 0.005 | 0.012 | N/A | N/L |
| 32 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 33 | 0.006 | 0.008 | N/A | 0.007 | 0.011 | N/A | N/L |
| 34 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 35 | 0.003 | 0.007 | N/A | 0.003 | 0.011 | N/A | N/L |
| 36 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 37 | 0.005 | 0.007 | N/A | 0.005 | 0.010 | N/A | N/L |
| 38 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |
| 39 | 0.004 | 0.006 | N/A | 0.004 | 0.010 | N/A | N/L |
| 40 | 0.000 | 0.000 | N/A | 0.000 | 0.000 | N/A | N/L |

Note: The EUT power level is below 75.0 Watts and therefore has no defined limits

Voltage Source Verification Data (Run time)

EUT: AG274Q Tested by: Kennen
 Test category: Class-D per Ed. 5.0 (2018) (European limits) Test Margin: 100
 Test date: 2021-5-7 Start time: 16:47:55 End time: 16:50:37
 Test duration (min): 2.5 Data file name: H-000113.cts_data
 Comment: Default Mode Adapter: FSP230-AJAN3
 Customer: TPV

Test Result: N/L Source qualification: Normal

Highest parameter values during test:

| | |
|------------------------|----------------------|
| Voltage (Vrms): 230.08 | Frequency(Hz): 50.00 |
| I_Peak (Amps): 0.668 | I_RMS (Amps): 0.335 |
| I_Fund (Amps): 0.307 | Crest Factor: 2.027 |
| Power (Watts): 65.6 | Power Factor: 0.865 |

| Harm# | Harmonics V-rms | Limit V-rms | % of Limit | Status |
|-------|-----------------|-------------|------------|--------|
| 2 | 0.085 | 0.460 | 18.56 | OK |
| 3 | 0.461 | 2.070 | 22.26 | OK |
| 4 | 0.059 | 0.460 | 12.88 | OK |
| 5 | 0.047 | 0.920 | 5.13 | OK |
| 6 | 0.033 | 0.460 | 7.16 | OK |
| 7 | 0.050 | 0.690 | 7.29 | OK |
| 8 | 0.015 | 0.460 | 3.19 | OK |
| 9 | 0.020 | 0.460 | 4.37 | OK |
| 10 | 0.018 | 0.460 | 3.93 | OK |
| 11 | 0.015 | 0.230 | 6.65 | OK |
| 12 | 0.017 | 0.230 | 7.31 | OK |
| 13 | 0.018 | 0.230 | 7.65 | OK |
| 14 | 0.008 | 0.230 | 3.45 | OK |
| 15 | 0.014 | 0.230 | 6.05 | OK |
| 16 | 0.010 | 0.230 | 4.51 | OK |
| 17 | 0.009 | 0.230 | 3.94 | OK |
| 18 | 0.016 | 0.230 | 6.92 | OK |
| 19 | 0.014 | 0.230 | 6.04 | OK |
| 20 | 0.012 | 0.230 | 5.18 | OK |
| 21 | 0.009 | 0.230 | 3.93 | OK |
| 22 | 0.004 | 0.230 | 1.89 | OK |
| 23 | 0.011 | 0.230 | 4.61 | OK |
| 24 | 0.006 | 0.230 | 2.66 | OK |
| 25 | 0.012 | 0.230 | 5.20 | OK |
| 26 | 0.005 | 0.230 | 2.07 | OK |
| 27 | 0.013 | 0.230 | 5.65 | OK |
| 28 | 0.006 | 0.230 | 2.66 | OK |
| 29 | 0.012 | 0.230 | 5.32 | OK |
| 30 | 0.004 | 0.230 | 1.59 | OK |
| 31 | 0.008 | 0.230 | 3.49 | OK |
| 32 | 0.004 | 0.230 | 1.56 | OK |
| 33 | 0.011 | 0.230 | 4.76 | OK |
| 34 | 0.003 | 0.230 | 1.50 | OK |
| 35 | 0.008 | 0.230 | 3.40 | OK |
| 36 | 0.004 | 0.230 | 1.73 | OK |
| 37 | 0.008 | 0.230 | 3.28 | OK |
| 38 | 0.004 | 0.230 | 1.65 | OK |
| 39 | 0.009 | 0.230 | 3.87 | OK |
| 40 | 0.004 | 0.230 | 1.81 | OK |

6. VOLTAGE FLUCTUATIONS & FLICKER TEST

6.1. Test Equipment

Same as Section 6.1.

6.2. Block Diagram of Test Setup

Same as Section 6.2.

6.3. Test Standard

EN 61000-3-3: 2013 /

IEC 61000-3-3: 2013

EN 61000-3-3: 2013+A1:2019 /

IEC 61000-3-3: 2013+A1:2017

BS EN 61000-3-3: 2013

BS EN 61000-3-3: 2013+A1:2019

6.4. Limits of Voltage Fluctuation and Flick

| Test Item | Limit | Note |
|---------------|-------|---|
| P_{st} | 1.0 | P_{st} means Short-term flicker indicator |
| P_{lt} | 0.65 | P_{lt} means long-term flicker indicator |
| T_{max} | 500ms | T_{max} means maximum time that $d(t)$ exceeds 3.3% |
| $d_{max}(\%)$ | 4% | d_{max} means maximum relative voltage change. |
| $d_c(\%)$ | 3.3% | d_c means relative steady-state voltage change. |

6.5. EUT Configuration on Test

The configurations of EUT are listed in Section 3.5.

6.6. Operating Condition of EUT

Same as Section 6.6.

6.7. Test Procedure

The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the most unfavorable sequence of voltage changes under normal conditions. During the flick measurement, the measure time shall include that part of whole operation changes. The observation period for short-term flicker indicator is 10 minutes and the observation period for long-term flicker indicator is 2 hours.

6.8. Test Results

PASS. (Test results are recorded in next page)

Flicker Test Summary per EN/IEC61000-3-3 Ed. 3.0 (2013) (Run time)

EUT: M/N:AG274Q
 Test category: All parameters (European limits)
 Test date: 2021-4-20
 Test duration (min): 10
 Customer: TPV
 Tested by: Kennen
 Test Margin: 100
 Start time: 10:32:42
 End time: 10:43:09
 Data file name: F-001211.cts_data
 Comment: Running "H" Pattern And 1KHz Playing

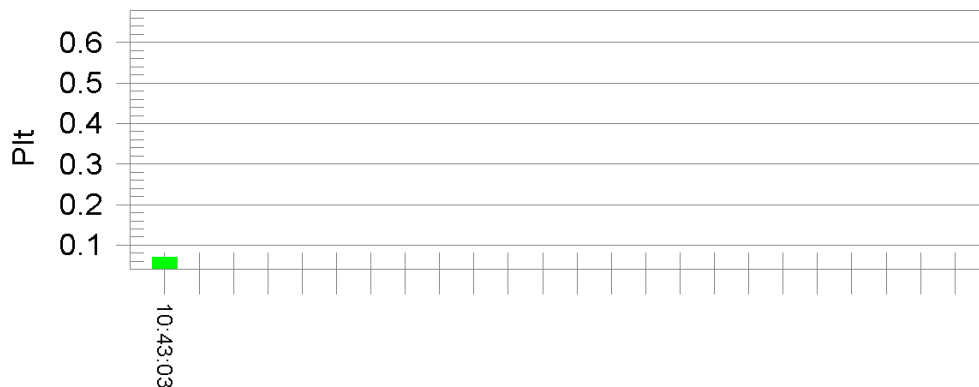
Test Result: Pass Status: Test Completed

Pst_t and limit line

European Limits



Plt and limit line



Parameter values recorded during the test:

| | | | |
|---------------------------------|--------|------------------|-----------------|
| Vrms at the end of test (Volt): | 229.89 | | |
| T-max (mS): | 0 | Test limit (mS): | 500.0 Pass |
| Highest dc (%): | 0.00 | Test limit (%): | 3.30 Pass |
| Highest dmax (%): | 0.00 | Test limit (%): | 4.00 Pass |
| Highest Pst (10 min. period): | 0.160 | Test limit: | 1.000 Pass |
| Highest Plt (2 hr. period): | 0.070 | Test limit: | 0.650 Pass |

Flicker Test Summary per EN/IEC61000-3-3 Ed. 3.0 (2013) (Run time)

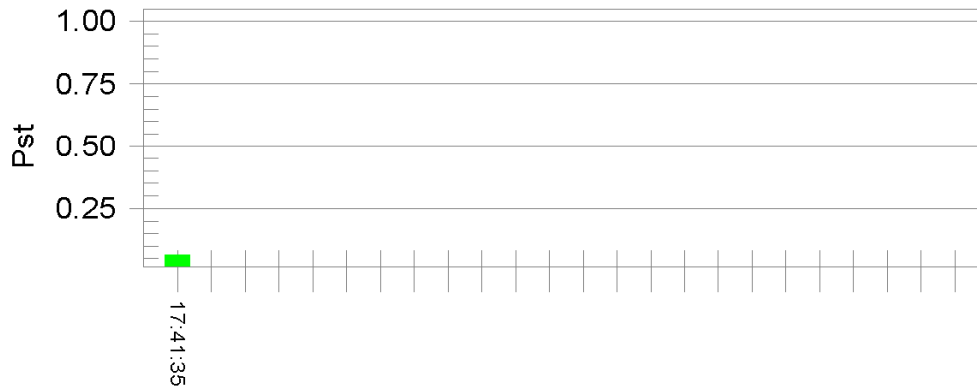
EUT: AG274Q
 Test category: All parameters (European limits)
 Test date: 2021-5-7
 Test duration (min): 10
 Comment: Running "H" Pattern And 1KHz Playing
 Customer: TPV

Tested by: Kennen
 Test Margin: 100
 Start time: 17:31:14
 End time: 17:41:41
 Data file name: F-000119.cts_data

Test Result: Pass Status: Test Completed

Pst, and limit line

European Limits



Plt and limit line



Parameter values recorded during the test:

| | | | |
|---------------------------------|--------|------------------|---------------|
| Vrms at the end of test (Volt): | 229.91 | | |
| T-max (mS): | 0 | Test limit (mS): | 500.0 Pass |
| Highest dc (%): | 0.00 | Test limit (%): | 3.30 Pass |
| Highest dmax (%): | 0.00 | Test limit (%): | 4.00 Pass |
| Highest Pst (10 min. period): | 0.064 | Test limit: | 1.000 Pass |
| Highest Plt (2 hr. period): | 0.028 | Test limit: | 0.650 Pass |

7. IMMUNITY PERFORMANCE CRITERIA

Performance Level

The test results shall be classified in terms of the loss of function or degradation of performance of the equipment under test, relative to a performance level by its manufacturer or the requestor of the test, or the agreed between the manufacturer and the purchaser of the product.

Definition related to the performance level:

1. Based on the used product standard
2. Based on the declaration of the manufacturer, requestor or purchaser

For EN 55035

Performance criterion A:

The equipment shall continue to operate as intended without operator intervention. No degradation of performance, loss of function or change of operating state is allowed below a performance level specified by the manufacturer when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

Performance criterion B:

During the application of the disturbance, degradation of performance is allowed. However, no unintended change of actual operating state or stored data is allowed to persist after the test.

After the test, the equipment shall continue to operate as intended without operator intervention; no degradation of performance or loss of function is allowed, below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance.

If the minimum performance level (or the permissible performance loss), or recovery time, is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

Performance criterion C:

Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. A reboot or re-start operation is allowed.

Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

Performance criteria for audio output function

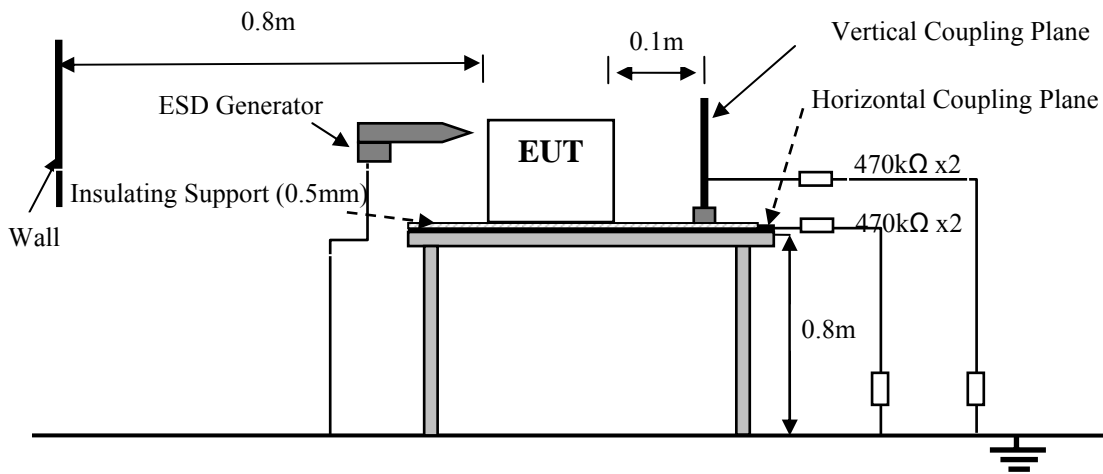
| Performance criterion for all other devices | |
|---|---|
| Criteria A | The measured acoustic interference ratio and/or the measured electrical interference ratio during the test shall be -20 dB or better. |
| Criteria B | Use the general performance criterion B. |
| Criteria C | Use the general performance criterion C |

8. ELECTROSTATIC DISCHARGE IMMUNITY TEST

8.1. Test Equipments

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|------------|--------------|-----------|-------------|-----------|---------------|
| 1. | ESD Room | AUDIX | N/A | N/A | Apr.17,19 | 3 Year |
| 2. | ESD Tester | EM Test | Dito | P1723199429 | Oct.21,20 | 1 Year |

8.2. Block Diagram of Test Setup



8.3. Test Standard

IEC 61000-4-2: 2008

(Severity for Air Discharge was Level 1 at ± 2 kV & Level 2 at ± 4 kV & Level 3 at ± 8 kV, for Contact Discharge was Level 2 at ± 4 kV)

8.4. Severity Levels and Performance Criterion

| Severity Level | Test Voltage Contact Discharge (kV) | Test Voltage Air Discharge (kV) | Performance criterion |
|----------------|-------------------------------------|---------------------------------|-----------------------|
| 1. | 2 | 2 | B |
| 2. | 4 | 4 | |
| 3. | 6 | 8 | |
| 4. | 8 | 15 | |
| X | Special | Special | |

8.5.EUT Configuration

The configurations of EUT are listed in Section 3.5.

8.6.Operating Condition of EUT

Same as Conducted Emission test that listed in Section 3.6. except the test set up replaced by Section 8.2.

8.7.Test Procedure

8.7.1. Air Discharge:

The test was applied on non-conductive surfaces of EUT. The round discharge tip of the discharge electrode was approached as fast as possible to touch the EUT. After each discharge, the discharge electrode was removed from the EUT. The generator was re-triggered for a new single discharge and repeated 20 times for each pre-selected test point. This procedure was repeated until all the air discharge completed

8.7.2. Contact Discharge:

All the procedure was same as Section 8.7.1. except that the generator was re-triggered for a new single discharge and repeated 20 times for each pre-selected test point. The tip of the discharge electrode was touching the EUT before the discharge switch was operated.

8.7.3. Indirect discharge for horizontal coupling plane:

At least 10 single discharges were applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

8.7.4. Indirect discharge for vertical coupling plane:

At least 10 single discharges were applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, was placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges were applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

8.8.Test Results

PASS. (Test results are recorded in next page)

Electrostatic Discharge Test Results

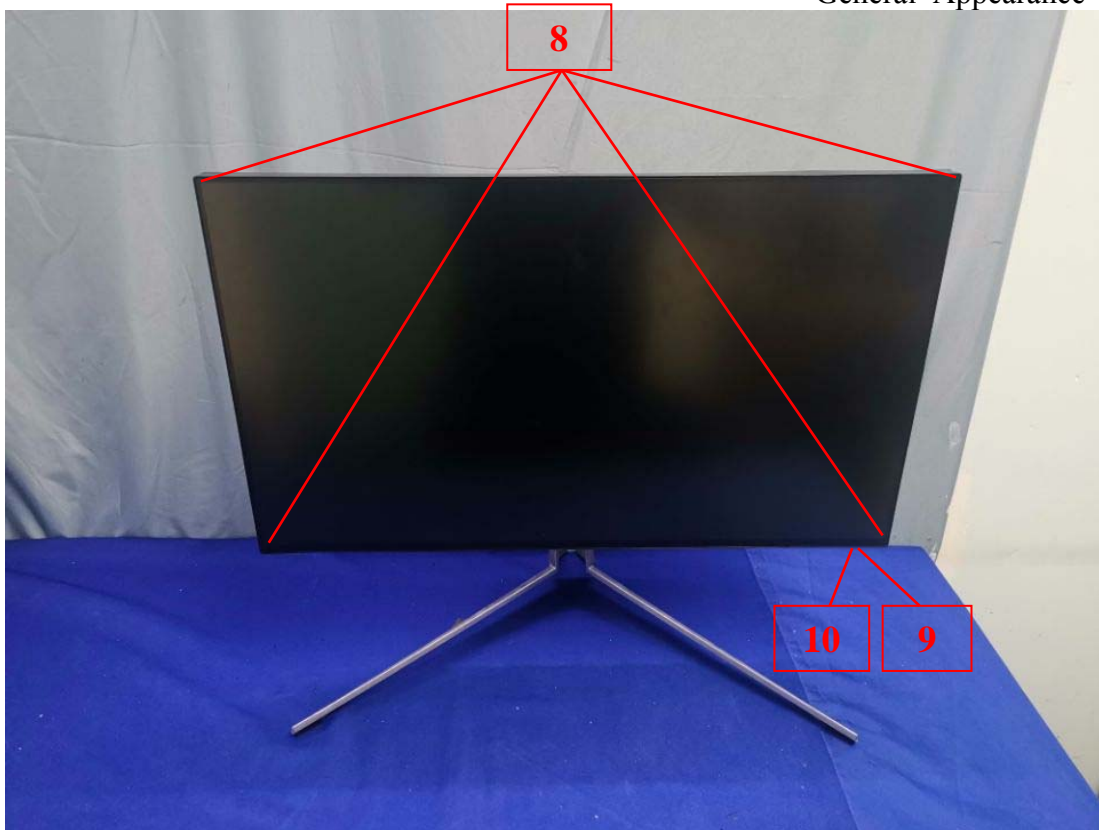
Audix Technology (Shenzhen) Co., Ltd.

| | | | | | | | | | |
|---|---|-------------|------------|-----|-----|-----|-----|-----|----------|
| EUT | LCD Monitor | Model No. | AG274Q | | | | | | |
| Test Date | Apr.30, 2021 | Temperature | 23.8±0.6℃ | | | | | | |
| Input Power | AC 230V/50Hz; AC 100V/50Hz | Humidity | 53±3% | | | | | | |
| Test Mode | PC Mode | Pressure | 101.6±1kPa | | | | | | |
| Tested By | Kennen | Result | Pass | | | | | | |
| Air Discharge | Voltage Level kV / Discharge per polarity 10 / Observation | | | | | | | | |
| Test Location | +2 | -2 | +4 | -4 | +8 | -8 | --- | --- | Comments |
| DC Ports(1) | ND | ND | ND | ND | ND | ND | --- | --- | --- |
| HDMI Port (2) | A | A | A | A | B* | B* | --- | --- | --- |
| USB 3.0 Port (3) | A | A | A | A | B* | B* | --- | --- | --- |
| DP Port (4) | A | A | A | A | B* | B* | --- | --- | --- |
| USB UP Ports (5) | A | A | A | A | B* | B* | --- | --- | --- |
| Audio Out/In Port (6) | A | A | A | A | B* | B* | --- | --- | --- |
| Slots (7) | ND | ND | ND | ND | ND | ND | --- | --- | --- |
| Screen (8) | ND | ND | ND | ND | B* | B* | --- | --- | --- |
| LED (9) | ND | ND | ND | ND | ND | ND | --- | --- | --- |
| Buttons (10) | ND | ND | ND | ND | A | A | --- | --- | --- |
| Keylock (11) | ND | ND | ND | ND | ND | ND | --- | --- | --- |
| Contact Discharge | Voltage Level Kv / Discharge per polarity 10 / Observation | | | | | | | | |
| Test Location | +4 | -4 | --- | --- | --- | --- | --- | --- | Comments |
| Metal(12) | B* | B* | --- | --- | --- | --- | --- | --- | --- |
| Indirect Contact | Voltage Level Kv / Discharge per polarity 10 / Observation | | | | | | | | |
| Test Location | +4 | -4 | --- | --- | --- | --- | --- | --- | Comments |
| VCP Front | A | A | --- | --- | --- | --- | --- | --- | --- |
| VCP Right | A | A | --- | --- | --- | --- | --- | --- | --- |
| VCP Left | A | A | --- | --- | --- | --- | --- | --- | --- |
| VCP Back | A | A | --- | --- | --- | --- | --- | --- | --- |
| HCP Bottom | A | A | --- | --- | --- | --- | --- | --- | --- |
| Measurement Points | Please refer to the Photos of ESD Test Points | | | | | | | | |
| ND=No Discharge; Meets criteria but unable to obtain an electrostatic discharge (ESD) at this test point. Note: The class "B*" means the screen of EUT will be twinkle during test, but it can recover by itself after test. | | | | | | | | | |

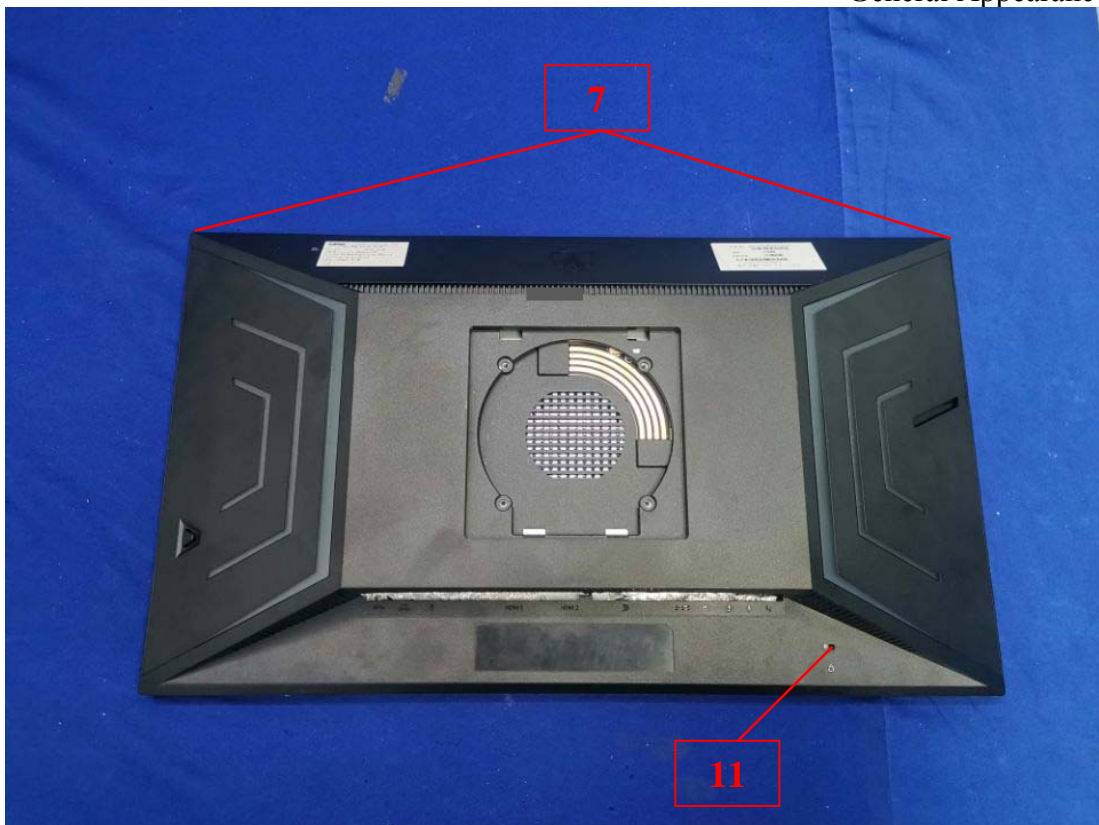
After discharge to the ungrounded part of EUT, it needs the bleeder resistor to remove the charge prior to next ESD pulse.
 Discharge was considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).

8.9.ESD Test Point Photos

ESD Figure 1
General Appearance of the EUT



ESD Figure 2
General Appearance of the EUT



ESD Figure 4
General Appearance of the EUT



9. RF FIELD STRENGTH SUSCEPTIBILITY TEST

9.1. Test Equipments

For frequency range: 80-1000MHz

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|---------------------------|-----------------|--------------|---------------|-----------|---------------|
| 1. | 10m Chamber(NSA) | AUDIX | N/A | N/A | Apr.14,21 | 1 Year |
| 2. | 10m Chamber(SE) | AUDIX | N/A | N/A | Apr.14,21 | 3 Year |
| 3. | Signal Analyzer | Rohde & Schwarz | FSV30 | 103669 | Oct.11,20 | 1 Year |
| 4. | Signal Analyzer | Rohde & Schwarz | FSV30 | 103670 | Oct.11,20 | 1 Year |
| 5. | EMI Test Receiver | Rohde & Schwarz | ESR3 | 101931 | Apr.06,21 | 1 Year |
| 6. | Amplifier | EMCI | EMC9135 | 980347 | Apr.06,21 | 1 Year |
| 7. | Amplifier | EMCI | EMC9135 | 980348 | Mar.02,21 | 1 Year |
| 8. | Tri-log-Broadband Antenna | Schwarzbeck | VULB 9168 | 429 | Jul.06,20 | 1 Year |
| 9. | Tri-log-Broadband Antenna | Schwarzbeck | VULB 9168 | 493 | Aug.28,20 | 1 Year |
| 10. | RF Cable | SPUMA | CFD400NL-LW | No.4 | Apr.06,21 | 1 Year |
| 11. | RF Cable | SPUMA | CFD400-NM-NM | 160727+160728 | Apr.06,21 | 1 Year |
| 12. | Coaxial Switch | Anritsu | MP59B | 6201397220 | Apr.06,21 | 1 Year |
| 13. | Coaxial Switch | Anritsu | MP59B | 6201397221 | Apr.06,21 | 1 Year |
| 14. | Coaxial Switch | Anritsu | MP59B | 6201397224 | Apr.06,21 | 1 Year |
| 15. | Audio Analyzer | Rohde & Schwarz | UPL | 100687 | Apr.13,21 | 1 Year |
| 16. | Test Software | AUDIX | e3 | 6.100913a | N/A | N/A |

Note: N/A means Not applicable.

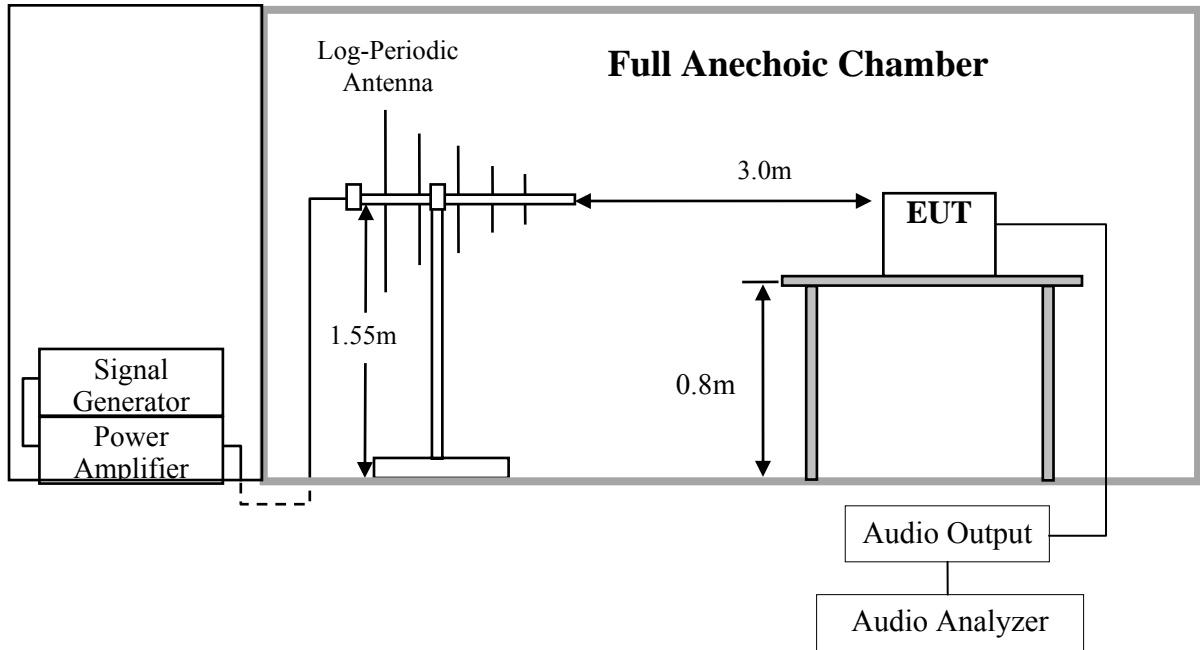
Frequency Range: Above 1000MHz

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|--------------------|-----------------|-------------------|------------|-----------|---------------|
| 1. | 10m Chamber(Svswr) | AUDIX | N/A | N/A | Apr.11,21 | 1 Year |
| 2. | 10m Chamber(SE) | AUDIX | N/A | N/A | Apr.14,21 | 3 Year |
| 3. | Signal Analyzer | Rohde & Schwarz | FSV30 | 103670 | Oct.11,20 | 1 Year |
| 4. | Horn Antenna | ETS | 3117 | 00218552 | Dec.09,20 | 1 Year |
| 5. | Amplifier | KEYSIGHT | 83017A | 39500711 | Apr.06,21 | 1 Year |
| 6. | RF Cable | ETS | SMS-100-SMS-350IN | NO.1 | Apr.06,21 | 1 Year |
| 7. | Audio Analyzer | Rohde & Schwarz | UPL | 100687 | Apr.13,21 | 1 Year |
| 8. | Test Software | AUDIX | e3 | 6.100913a | N/A | N/A |

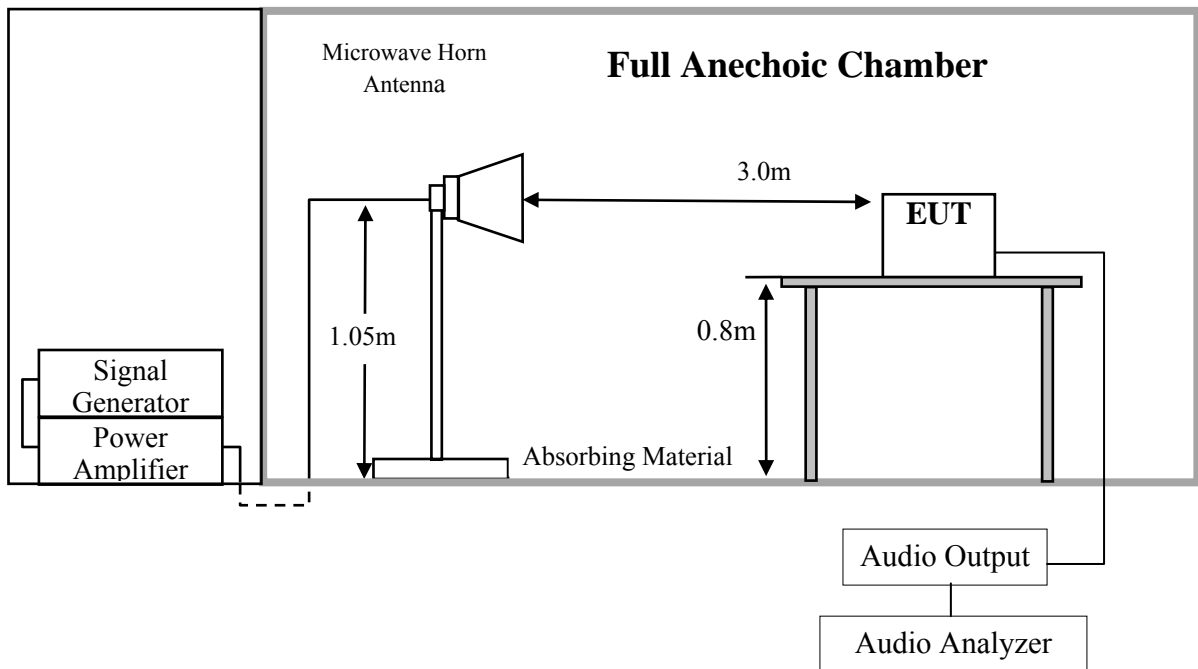
Note: N/A means Not applicable.

9.2. Block Diagram of Test Setup

For frequency range: 80-1000MHz



For frequency range above 1GHz



9.3. Test Standard

IEC 61000-4-3: 2010

(Severity Level: 2 at 3V / m)

9.4. Severity Levels and Performance Criterion

| Severity Level | Test Field Strength V/m | Performance Criteria |
|----------------|-------------------------|----------------------|
| 1. | 1 | A |
| 2. | 3 | |
| 3. | 10 | |
| X. | Special | |

9.5. EUT Configuration

The configurations of EUT are listed in Section 3.5.

9.6. Operating Condition of EUT

Same as Conducted Emission test that listed in Section 3.6. Except the test set up replaced by Section 9.2.

9.7. Test Procedure

The field sensor is placed on the EUT table which is 3 meters away from the transmitting antenna. Through the signal generator, power amplifier and transmitting antenna to produce a uniformity field strength around the EUT table from frequency range 80MHz-1000MHz and records the signal generator's output level at the same time for whole measured frequency range. Then, put EUT and its simulators on the non-metallic table and keep them 3 meters (3V/m measured by field sensor) away from the transmitting antenna which is mounted on an antenna tower and fixes at 1.55 meter height(for frequency range 80MHz-1000MHz) or 1.05 meter height (for frequency range above 1GHz) above the ground. Using the recorded signal generator's output level to measure the EUT from frequency range 80MHz-1000MHz or for frequency range above 1GHz and both horizontal & vertical polarization of antenna must be set and measured. Each of the four sides of EUT must be faced this transmitting antenna and measures individually.

All the scanning conditions are as follows:

| Test conditions | |
|---------------------------|---|
| Frequency | 80MHz-1GHz; 1.8GHz; 2.6GHz; 3.5GHz; 5GHz |
| Frequency increments step | 1% of momentary used |
| Test level | 3V/m (un-modulated) |
| Dwell time | 3s |
| Test signal | 80% amplitude modulated by 1kHz sinusoidal audio signal |

9.8. Test Results

PASS. (Test results are recorded in next page)

RF Field Strength Susceptibility Test Results

Audix Technology(Shenzhen) Co.,Ltd.

| | | | |
|-------------|----------------------------|-------------|------------|
| EUT | LCD Monitor | Model No. | AG274Q |
| Test Date | Apr.27, 2021 | Temperature | 25.3±0.6℃ |
| Input Power | AC 230V/50Hz; AC 100V/50Hz | Humidity | 51±3% |
| Test Mode | PC Mode | Pressure | 101.7±1kPa |
| Tested By | Kennen | Result | Pass |

Test Field Strength 3V/m

Modulation: AM 1kHz 80% Pulse none

Frequency Range : 80-1000MHz; 1.8GHz; 2.6GHz; 3.5GHz; 5GHz

| | Horizontal | | Vertical | | Result (Pass / Fail) |
|-------|------------|-------------|----------|-------------|-------------------------|
| | Required | Observation | Required | Observation | |
| Front | A | A | A | A | Pass |
| Right | A | A | A | A | Pass |
| Rear | A | A | A | A | Pass |
| Left | A | A | A | A | Pass |

Audio output function test

| Port | Polarization | Demodulated Audio Level (dBV) | Electrical Reference Level(dBV) | Electrical interference ratio(dB) | Limit(dB) |
|-----------|--------------|-------------------------------------|---------------------------------------|---|-----------|
| Audio out | V | -56.8 ^{Note} | -5.9 | -50.9 ^{Note} | -20 |
| Audio out | H | -55.4 ^{Note} | -5.9 | -49.5 ^{Note} | -20 |
| Speaker R | V | -46.9 ^{Note} | -7.2 | -39.7 ^{Note} | -20 |
| Speaker R | H | -47.2 ^{Note} | -7.2 | -40 ^{Note} | -20 |
| Speaker L | V | -44.9 ^{Note} | -7.2 | -37.7 ^{Note} | -20 |
| Speaker L | H | -44.3 ^{Note} | -7.2 | -37.1 ^{Note} | -20 |

Note means worst frequency between 80-5000MHz

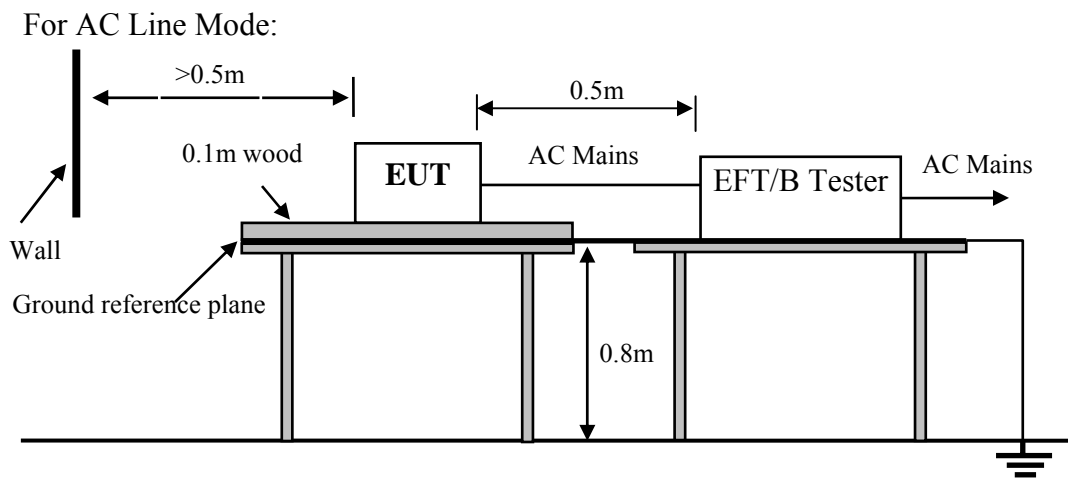
10.ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST

10.1. Test Equipments

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|---------------|--------------|-----------|------------|-----------|---------------|
| 1. | ESD Room | AUDIX | N/A | N/A | Apr.17,19 | 3 Year |
| 2. | Burst Tester | TESEQ | NSG 3025 | 28017 | Apr.07,21 | 1 Year |
| 3. | Test Software | Schaffner | Win3025 | V 4.00 | N/A | N/A |

Note: N/A means Not applicable.

10.2. Block Diagram of Test Setup



10.3. Test Standard

IEC 61000-4-4: 2012

(Severity Level: Level 1 at 0.5kV, Level 2 at 1kV)

10.4. Severity Levels and Performance Criterion

| Open Circuit Output Test Voltage $\pm 10\%$ | | | |
|---|-----------------------|---|-----------------------|
| Severity Level | On Power Supply Lines | On I/O (Input / Output) Signal data and control lines | Performance criterion |
| 1. | 0.5 kV | 0.25 kV | B |
| 2. | 1 kV | 0.5 kV | |
| 3. | 2 kV | 1 kV | |
| 4. | 4 kV | 2 kV | |
| X | Special | Special | |

10.5. EUT Configuration

The configurations of EUT are listed in Section 3.5.

10.6. Operating Condition of EUT

Same as Conducted Emission test that listed in Section 3.6. except the test set up replaced by Section 10.2.

10.7. Test Procedure

The EUT and its simulators were placed on the ground reference plane and were insulated from it by a wood support $0.1\text{m} \pm 0.01\text{m}$ thick. The ground reference plane was $1\text{m} \times 1\text{m}$ metallic sheet with 0.65mm minimum thickness. This reference ground plane was project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane was more than 0.5m. All cables to the EUT was placed on the wood support, cables not subject to EFT/B was routed as far as possible from the cable under test to minimize the coupling between the cables.

10.7.1. For input and AC power ports:

The EUT was connected to the power mains by using a coupling device that couples the EFT interference signal to AC power lines. Both positive transients and negative transients of test voltage were applied during compliance test and the duration of the test can't less than 1min.

10.7.2. For signal lines and control lines ports:

It's unnecessary to test.

10.7.3. For DC input and DC output power ports:

It's unnecessary to test.

10.8. Test Results

PASS. (Test results are recorded in next page)

Electrical Fast Transient/Burst Test Results

Audix Technology (Shenzhen) Co., Ltd.

| | | | |
|-------------|----------------------------|-------------|------------|
| EUT | LCD Monitor | Model No. | AG274Q |
| Test Date | Apr.30, 2021 | Temperature | 23.7±0.6°C |
| Input Power | AC 230V/50Hz; AC 100V/50Hz | Humidity | 52±3% |
| Test Mode | PC Mode | Pressure | 101.6±1kPa |
| Tested By | Kennen | Result | Pass |

Repetition Frequency : 5 kHz Burst Duration : 15ms Burst Period: 300ms

Inject Time(s): 120s

Inject Line(Inject Method): AC Mains (Direct) DC Supply Signal(Capacitive Clamp)

| Line | Test Voltage | Performance | | | Result (Pass/Fail) |
|--------|--------------|-------------|----------------|----------------|-----------------------|
| | | Required | Observation(+) | Observation(-) | |
| L | 0.5kV | B | A | A | Pass |
| | 1kV | B | B* | B* | Pass |
| N | 0.5kV | B | A | A | Pass |
| | 1kV | B | B* | B* | Pass |
| PE | 0.5kV | B | A | A | Pass |
| | 1kV | B | B* | B* | Pass |
| L N | 0.5kV | B | A | A | Pass |
| | 1kV | B | B* | B* | Pass |
| L PE | 0.5kV | B | A | A | Pass |
| | 1kV | B | B* | B* | Pass |
| N PE | 0.5kV | B | A | A | Pass |
| | 1kV | B | B* | B* | Pass |
| L N PE | 0.5kV | B | A | A | Pass |
| | 1kV | B | B* | B* | Pass |

Remark: The class "B*" means the screen of EUT will be twinkle during the test, but it will recover to by itself.

11.SURGE TEST

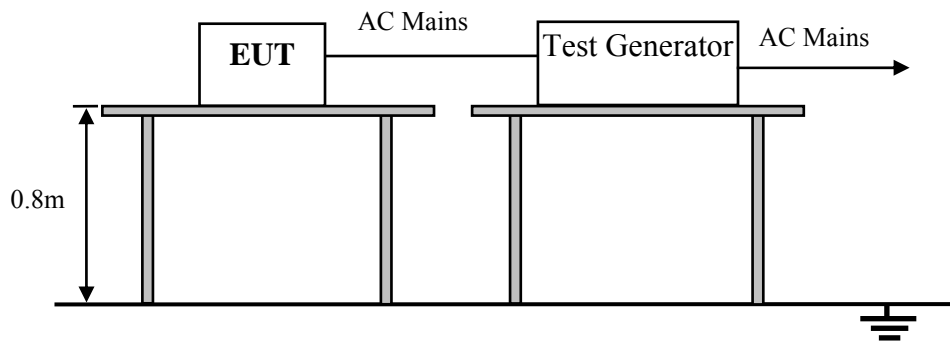
11.1. Test Equipments

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-----------------------|--------------|----------------|-------------------------|-----------|---------------|
| 1. | ESD Room | AUDIX | N/A | N/A | Apr.17,19 | 3 Year |
| 2. | Transient Test System | EMC PARTNER | TRANSIENT 2000 | TRA2006 F-S-T-D-R -1500 | Apr,08,21 | 1 Year |
| 3. | Test Software | EMC PARTNER | Genecs | V3.25 | N/A | N/A |

Note: N/A means Not applicable.

11.2. Block Diagram of Test Setup

For AC Line Mode:



11.3. Test Standard

IEC 61000-4-5: 2014

IEC 61000-4-5: 2014+A1: 2017

(Severity Level: Line to Line was Level 2 at 1kV,

Line to Ground was Level 2 at 1kV& Level 3 at 2kV)

11.4. Severity Levels and Performance Criterion

| Severity Level | Open-Circuit Test Voltage kV | Performance criterion |
|----------------|---------------------------------|-----------------------|
| 1 | 0.5 | B |
| 2 | 1.0 | |
| 3 | 2.0 | |
| 4 | 4.0 | |
| * | Special | |

11.5. EUT Configuration

The configurations of EUT are listed in Section 3.5.

11.6. Operating Condition of EUT

Same as Conducted Emission test that listed in Section 3.6. except the test set up replaced by Section 11.2

11.7. Test Procedure

- 1) Set up the EUT and test generator as shown on Section 11.2.
- 2) For line-to-line coupling mode, provide a 1kV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points, and for active line / neutral lines to ground are same except test level is 2kV.
- 3) At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are applied during test.
- 4) Different phase angles are done individually.
- 5) Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

11.8. Test Results

PASS. (Test results are recorded in next page)

Surge Immunity Test Results

Audix Technology (Shenzhen) Co., Ltd.

| | | | | | | | | | | | |
|---|----------------------------|---------------------|------------|-----|-------------|-----|-----|-------------|-----|-----|-------------|
| EUT | LCD Monitor | Model No. | AG274Q | | | | | | | | |
| Test Date | Apr.30, 2021 | Temperature | 24.1±0.6°C | | | | | | | | |
| Input Power | AC 230V/50Hz; AC 100V/50Hz | Humidity | 52±3% | | | | | | | | |
| Test Mode | PC Mode | Pressure | 101.6±1kPa | | | | | | | | |
| Tested By | Kennen | Result | Pass | | | | | | | | |
| Repetition: 5 times per test | | Interval:60 Seconds | | | | | | | | | |
| Line : <input checked="" type="checkbox"/> AC Mains <input type="checkbox"/> DC Supply <input type="checkbox"/> Signal(LAN) | | | | | | | | | | | |
| Location | Volt | 500V | | | 1kV | | | 2kV | | | Result |
| | Phase | Performance | | | Performance | | | Performance | | | (Pass/Fail) |
| | | Required | + | - | Required | + | - | Required | + | - | |
| L-N | 0° | --- | --- | --- | B | A | A | --- | --- | --- | Pass |
| | 90° | --- | --- | --- | B | A | A | --- | --- | --- | Pass |
| | 180° | --- | --- | --- | B | A | A | --- | --- | --- | Pass |
| | 270° | --- | --- | --- | B | A | A | --- | --- | --- | Pass |
| L-PE | 0° | --- | --- | --- | B | A | A | B | B* | B* | Pass |
| | 90° | --- | --- | --- | B | A | A | B | B* | B* | Pass |
| | 180° | --- | --- | --- | B | A | A | B | B* | B* | Pass |
| | 270° | --- | --- | --- | B | A | A | B | B* | B* | Pass |
| N-PE | 0° | --- | --- | --- | B | A | A | B | B* | B* | Pass |
| | 90° | --- | --- | --- | B | A | A | B | B* | B* | Pass |
| | 180° | --- | --- | --- | B | A | A | B | B* | B* | Pass |
| | 270° | --- | --- | --- | B | A | A | B | B* | B* | Pass |
| LAN Line | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

Remark: The class "B*" Means the screen of the EUT will be twinkle during test, but it can recover by itself.

12. CONTINUOUS CONDUCTED DISTURBANCE TEST

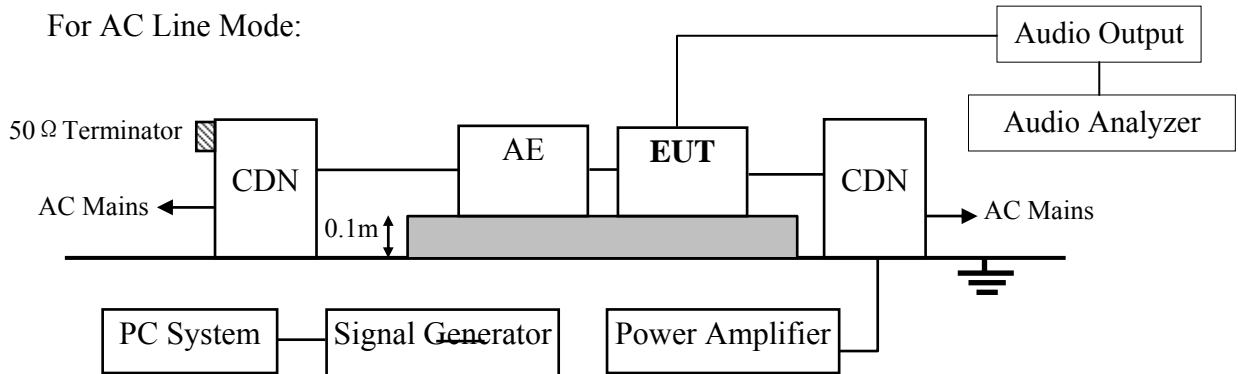
12.1. Test Equipments

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-----------------------------|-----------------|----------------|------------|-----------|---------------|
| 1. | MXG Analog Signal Generator | Agilent | N5181A | MY49061013 | Oct.11,20 | 1 Year |
| 2. | Amplifier | Rflight | NTWPA-4K04100 | 20073132 | Jul.11,20 | 1 Year |
| 3. | Power meter | HP | 436A | 2016A07891 | Apr.06,21 | 1 Year |
| 4. | Power sensor | Agilent | 8482B | MY41090514 | Apr.06,21 | 1 Year |
| 5. | CDN | FCC | FCC-801-M3-25A | 07045 | Apr.07,21 | 1 Year |
| 6. | CDN | TESEQ | CDN M016 | 34609 | Apr.07,21 | 1 Year |
| 7. | Attenuator | Weinschel | 40-6-34 | LJ092 | Apr.07,21 | 1 Year |
| 8. | Terminator | Hubersuhner | 50Ω | No.3 | Apr.06,21 | 1 Year |
| 9. | RF Cable | MICABLE | A04-07-07-7M | 09111341 | NCR | NCR |
| 10. | RF Cable | STORM | MFR-57500 | NO.2 | NCR | NCR |
| 11. | RF Cable | STORM | MFR-57500 | NO.3 | NCR | NCR |
| 12. | Audio Analyzer | Rohde & Schwarz | UPL | 100687 | Apr.13,21 | 1 Year |
| 13. | Test Software | AUDIX | i2 | 3.2010-1-7 | N/A | N/A |

Notes: NCR means no calibration required (calibrated with system).

Notes: N/A means Not applicable.

12.2. Block Diagram of Test Setup



12.3. Test Standard

IEC 61000-4-6: 2013

12.4. Severity Levels and Performance Criterion

| Severity Level | Voltage Level (e.m.f.) V | Performance criterion |
|----------------|--------------------------|-----------------------|
| 1 | 1 | A |
| 2 | 3 | |
| 3 | 10 | |
| X | Special | |

12.5. EUT Configuration

The configurations of EUT are listed in Section 3.5.

12.6. Operating Condition of EUT

Same as Conducted Emission test that listed in Section 3.6. except the test set up replaced by Section 12.2.

12.7. Test Procedure

- 1) Set up the EUT, CDN and test generators as shown on Section 12.2.
- 2) Let the EUT work in test mode and test it.
- 3) The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 10 and 30 mm (where possible).
- 4) The disturbance signal described below is injected to EUT through CDN.
- 5) The EUT operates within its operational mode(s) under intended climatic conditions after power on.
- 6) The frequency range is swept from 0.150MHz to 10MHz using 3V signal level, from 10MHz to 30MHz using 3V to 1V signal level, from 30MHz to 80MHz using 1V signal level and with the disturbance signal 80% amplitude modulated with a 1kHz sine wave.
- 7) The rate of sweep shall not exceed 1.5×10^{-3} decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
- 8) Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

12.8. Test Results

PASS. (Test results are recorded in next page)

Continuous Conducted disturbance Test Results

Audix Technology (Shenzhen)Co.,Ltd.

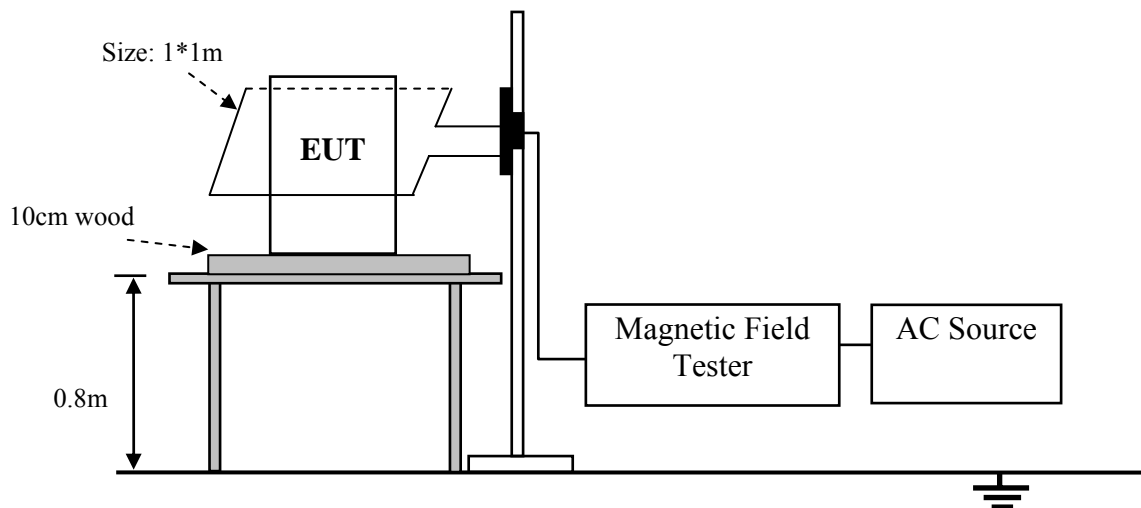
| EUT | LCD Monitor | Model No. | AG274Q | | |
|---|----------------------------|-------------------------------|---------------------------------|-----------------------------------|---------------|
| Test Date | Apr.28, 2021 | Temperature | 24.5±0.6°C | | |
| Input Power | AC 230V/50Hz; AC 100V/50Hz | Humidity | 51±3% | | |
| Test Mode | PC Mode | Pressure | 101.6±1kPa | | |
| Tested By | Hogen | Result | Pass | | |
| Frequency Range (MHz) | Injected Position | Voltage Level (e.m.f.) | Required | Observation | Result |
| | | | | | (Pass / Fail) |
| 0.15 ~ 10 | AC Mains | 3V | A | A | PASS |
| 10 ~ 30 | AC Mains | 3V~1V | A | A | PASS |
| 30 ~ 80 | AC Mains | 1V | A | A | PASS |
| Audio output function test | | | | | |
| Port | Injected Position | Demodulated Audio Level (dBV) | Electrical Reference Level(dBV) | Electrical interference ratio(dB) | Limit(dB) |
| Audio Out | AC Mains | -45.6 ^{Note} | -3.6 | -42 ^{Note} | -20 |
| Speaker L | AC Mains | -44.2 ^{Note} | -2.9 | -40.3 ^{Note} | -20 |
| Speaker R | AC Mains | -43.9 ^{Note} | -3.9 | -40 ^{Note} | -20 |
| Note means worst frequency between 0.15-80MHz | | | | | |
| Modulation Signal:1kHz 80% AM | | | | | |
| Dwell time: 3s | | | | | |

13.MAGNETIC FIELD IMMUNITY TEST

13.1. Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|--------------------------|--------------|------------|------------|-----------|---------------|
| 1. | H/F Room | AUDIX | N/A | N/A | Apr.16,19 | 3 Year |
| 2. | Magnetic Field Tester | HAEFELY | Mag100.1 | 083858-10 | Apr.08,21 | 1 Year |
| 3. | Line Disturbances Tester | HAEFELY | PLINE 1610 | 083690-05 | Apr.07,21 | 1 Year |

13.2. Block Diagram of Test Setup



13.3. Test Standard

IEC 61000-4-8: 2009

(Severity Level 1 at 1A/m)

13.4. Severity Levels and Performance Criterion

| Severity Level | Magnetic Field Strength A/m | Performance criterion |
|----------------|-----------------------------|-----------------------|
| 1. | 1 | A |
| 2. | 3 | |
| 3. | 10 | |
| 4. | 30 | |
| 5. | 100 | |
| X. | Special | |

13.5. EUT Configuration on Test

The configurations of EUT are listed in Section 3.5.

13.6. Operating Condition of EUT

Same as Conducted Emission test that listed in Section 3.6. except the test set up replaced by Section 13.2.

13.7. Test Procedure

The EUT was subjected to the test magnetic field by using the induction coil of standard dimensions (1m*1m) and shown in Section 13.2. The induction coil was then rotated by 90° in order to expose the EUT to the test field with different orientations.

13.8. Test Results

PASS. (Test results are recorded in next page)

Magnetic Field Immunity Test Results

Audix Technology (Shenzhen) Co., Ltd.

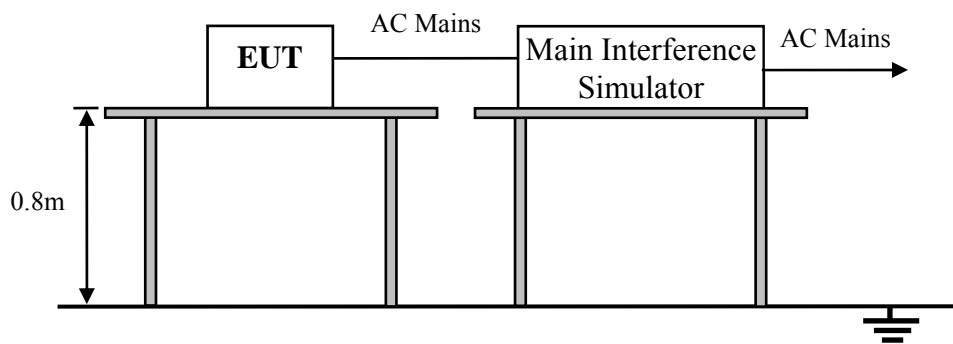
| EUT | LCD Monitor | | Model No. | AG274Q | |
|-------------|----------------------------|------------------|-------------|-------------|-------------|
| Test Date | Apr.20, 2021 | | Temperature | 24.4±0.6°C | |
| Input Power | AC 230V/50Hz; AC 100V/50Hz | | Humidity | 51±3% | |
| Test Mode | PC Mode | | Pressure | 101.7±1kPa | |
| Tested By | Hogen | | Result | Pass | |
| Test Level | Testing Duration | Coil Orientation | Required | Observation | Result |
| | | | | | (Pass/Fail) |
| 1A/m | 5 min / coil | X-axis | A | A | PASS |
| 1A/m | 5 min / coil | Y-axis | A | A | PASS |
| 1A/m | 5 min / coil | Z-axis | A | A | PASS |

14. VOLTAGE DIPS AND INTERRUPTIONS TEST

14.1. Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|--------------------------|--------------|------------|------------|-----------|---------------|
| 1. | H/F Room | AUDIX | N/A | N/A | Apr.16,19 | 3 Year |
| 2. | Line Disturbances Tester | HAEFELY | PLINE 1610 | 083690-05 | Apr.07,21 | 1 Year |

14.2. Block Diagram of Test Setup



14.3. Test Standard

IEC 61000-4-11: 2004

IEC 61000-4-11: 2004+A1: 2017

IEC 61000-4-11: 2020

14.4. Severity Levels and Performance Criterion

| Test Level %U _T | Voltage dip and short interruptions %U _T | Duration (in period) | Performance Criterion |
|-------------------------------|--|-------------------------|-----------------------|
| 0 | 100 | 250/300 ^{Note} | C |
| 0 | 100 | 0.5 | B |
| 70 | 30 | 25/30 ^{Note} | C |

Note: "25/30 Cycles" means "25 cycles for 50Hz test" and "30 cycles for 60Hz test".

"250/300 Cycles" means "250 cycles for 50Hz test" and "300 cycles for 60Hz test"

14.5. EUT Configuration

The configurations of EUT are listed in Section 3.5.

14.6. Operating Condition of EUT

Same as Conducted Emission test that is listed in Section 3.6. except the test set up replaced by Section 14.2.

14.7. Test Procedure

- 1) The EUT and test generator were setup as shown on Section 14.2.
- 2) The interruption is introduced at selected phase angles with specified duration.
- 3) Record any degradation of performance.

14.8. Test Results

PASS. (Test results are recorded in next page)

Voltage Dips And Interruptions Test Results

Audix Technology (Shenzhen) Co., Ltd.

| | | | |
|-------------|-----------------------------|-------------|------------|
| EUT | LCD Monitor | Model No. | AG274Q |
| Test Date | Apr.29, 2021 | Temperature | 23.5±0.6°C |
| Input Power | AC 230V/50Hz & AC 100V/50Hz | Humidity | 51±3% |
| Test Mode | PC Mode | Pressure | 101.7±1kPa |
| Tested By | Kennen | Result | Pass |

AC 230V/50Hz

| Test Level % U _T | Voltage Dips & Short Interruptions % U _T | Duration (in period) | Phase Angle | Required | Observation | Result |
|--------------------------------|--|-------------------------|---------------------|----------|-------------|---------------|
| | | | | | | (Pass / Fail) |
| 0 | 100 | 0.5P | 0° ,90° ,180° ,270° | B | A | PASS |
| 70 | 30 | 25P | 0° ,90° ,180° ,270° | C | A | PASS |
| 0 | 100 | 250P | 0° ,90° ,180° ,270° | C | C* | PASS |

AC 100V/50Hz

| Test Level % U _T | Voltage Dips & Short Interruptions % U _T | Duration (in period) | Phase Angle | Required | Observation | Result |
|--------------------------------|--|-------------------------|---------------------|----------|-------------|---------------|
| | | | | | | (Pass / Fail) |
| 0 | 100 | 0.5P | 0° ,90° ,180° ,270° | B | A | PASS |
| 70 | 30 | 25P | 0° ,90° ,180° ,270° | C | C* | PASS |
| 0 | 100 | 250P | 0° ,90° ,180° ,270° | C | C* | PASS |

Note 1: U_T is the rated voltage for the equipment.

Note 2: The frequency of the test voltage shall be within ±2% of the rated frequency, the output voltage shall be within ±5% of the rated voltage.

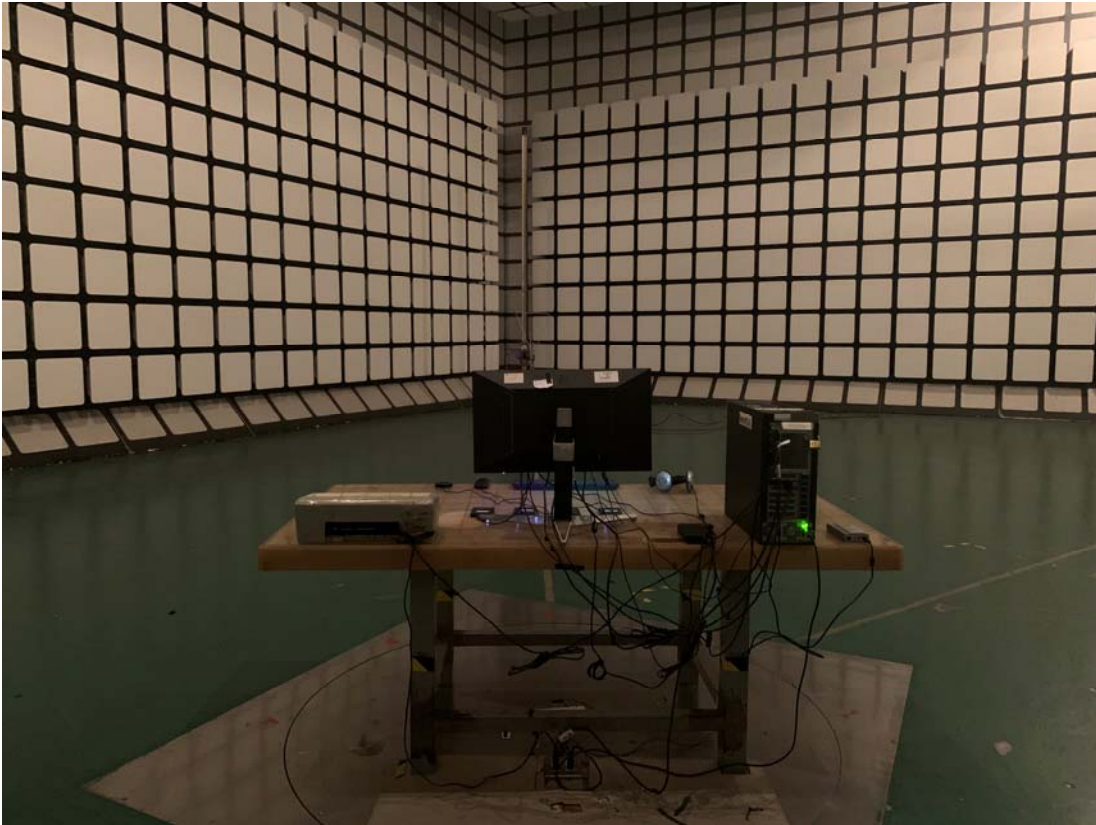
Remark: The Class “C*” means the EUT black screen when power off and data transmitting will interrupted, it need to recover by manual.

15.PHOTOGRAPHS

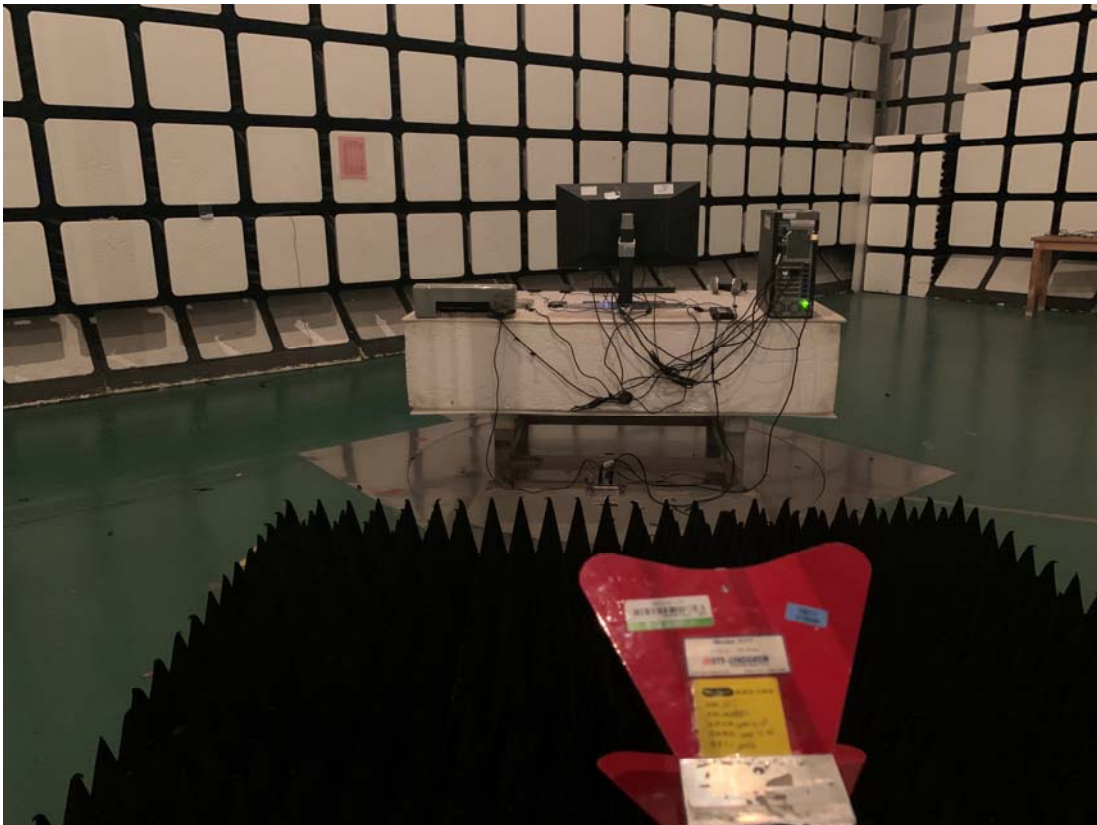
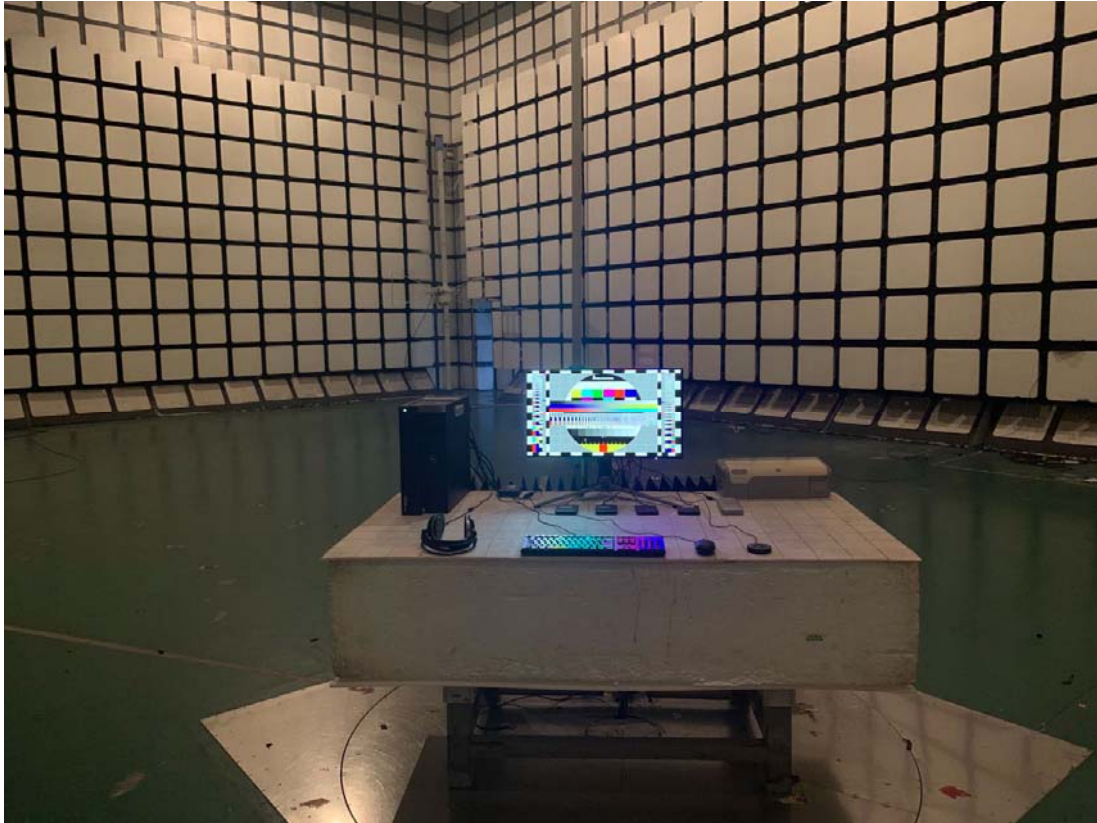
15.1. Photos of Power Line Conducted Emission Test



15.2. Photos of Radiated Emission Test (In 10m Anechoic Chamber)



In 10m Anechoic Chamber Test 1GHz – 6GHz



15.3. Photo of Harmonic / Flicker Test



15.4. Photos of Electrostatic Discharge Immunity Test





15.5. Photo of RF Strength Susceptibility Test



For frequency range above 1GHz



15.6. Photos of Electrical Fast Transient/Burst Immunity Test



15.7. Photos of Surge Test



15.8. Photos of Continuous Conducted disturbance Test



15.9. Photo of Magnetic Field Test



15.10. Photo of Voltage Dips and interruptions test



..... **THE END**