



ISED EMC Test Report

Project No. : 2204C047

Equipment : LCD Monitor

Brand Name : AG neovo

Test Model : QM-6502*(*=A-Z,a-z,0-9,/, +,-,\ or blank)

Series Model : N/A

Applicant: TPV Electronics (Fujian) Co., Ltd.

Address : Rongqiao Economic and Technological Development Zone, Fuqing

City, Fujian Province, P.R. China

Date of Receipt : Apr. 13, 2022

Date of Test : Apr. 14, 2022 ~ Apr. 26, 2022

Issued Date : May 07, 2022

Report Version : R00

Test Sample : Engineering Sample No.: DG202204141

Standard(s) : ICES-003 Issue 7: October 2020

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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lac-MRA



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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

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

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



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REPORT ISSUED HISTORY

| Report No. | Version | Description | Issued Date | Note |
|---------------------|---------|------------------|--------------|-------|
| BTL-ISEDE-1-204C047 | R00 | Original Report. | May 07, 2022 | Valid |



1. SUMMARY OF TEST RESULTS

| Emission | | |
|---|------------------------------------|--------|
| Ref Standard(s) | Test Item | Result |
| ICES-003 Issue 7: October 2020 | AC Power Line Conducted Emissions | PASS |
| ANSI C63.4-2014 | Radiated Emissions 30 MHz to 1 GHz | PASS |
| ANSI C63.4-2014 amended as per ANSI C63.4a-2017 | Radiated Emissions Above 1 GHz | PASS |



1.1 TEST FACILITY

The test facilities used to collect the test data in this report at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792 People's Republic of China. BTL's Company Number for ISED: 4428B

BTL's CAB Identifier for ISED: CN0042

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

| Test Site | Method | Measurement Frequency Range | U,(dB) |
|-----------|--------|-----------------------------|--------|
| DG-C01 | CISPR | 150kHz ~ 30MHz | 2.86 |

B. Radiated emissions test:

| Test Site | Method | Measurement Frequency Range | Ant. H / V | U,(dB) |
|------------------------|-------------------|-----------------------------|---------------|--------|
| DG-CB08 (10m) CISPR | 30MHz ~ 200MHz | ٧ | 4.72 | |
| | CIEDD | 30MHz ~ 200MHz | Н | 4.40 |
| | 200MHz ~ 1,000MHz | V | 4.58 | |
| | | 200MHz ~ 1,000MHz | Н | 3.70 |

| Test Site | Method | Measurement Frequency Range | U,(dB) |
|-----------------|--------|-----------------------------|--------|
| DG-CB08 (3m) | CISPR | 1GHz ~ 6GHz | 3.94 |

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

| Test Item | Temperature | Humidity | Tested By |
|---------------------------------------|-------------|----------|------------|
| AC Power Line Conducted Emissions | 25°C | 42% | Jolly Su |
| Radiated emissions 30 MHz to 1 GHz | 22°C | 51% | Hans Wang |
| Radiated emissions above 1 GHz | 25°C | 59% | Larry Yuan |



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

| Equipment | LCD Monitor |
|--------------------------------|--|
| Brand Name | AG neovo |
| Test Model | QM-6502*(*=A-Z,a-z,0-9,/, +,-,\ or blank) |
| Series Model | N/A |
| Model Difference(s) | Only differ in model name due to marketing purpose. |
| Power Source | AC Mains. |
| Power Rating | AC 100-240V∼50-60Hz |
| Connecting I/O Port(s) | 1* AC port 3* HDMI port 1* D-SUB port 3* Audio port 1* IR OUT port 1* LAN port 1* USB port 1* RS232 port |
| Classification Of EUT | Class A |
| Highest Internal Frequency(Fx) | 600MHz |

| Cable Type | Shielded Type | Ferrite Core | Length(m) | Note |
|---------------|---------------|--------------|-----------------|--------------------------------|
| AC Power Cord | Non-shielded | NO | 3/2.5/2/1.8/1.5 | 3m is worst case Detachable |
| HDMI | Shielded | NO | 1.8/1.5/1.2 | - |
| D-SUB | Shielded | YES | 1.8/1.5/1.2 | Bonded Two Ferrite Cores |
| Audio | Non-shielded | NO | 1.8/1.5/1.2 | - |

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. Power cable 3m, 2.5m, 2m, 1.8m, 1.5m length, HDMI, D-SUB, Audio cable 1.8m, 1.5m and 1.2m length, worst case is Power cable 3m with HDMI+D-SUB+Audio length testing and recording in test report.



2.2 DESCRIPTION OF TEST MODES

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

| Pretest Mode | Description |
|--------------|---|
| Mode 1 | HDMI1 3840*2160/75Hz 3m(PC) |
| Mode 2 | HDMI2 3840*2160/75Hz 3m(PC) |
| Mode 3 | HDMI3 3840*2160/75Hz 3m(PC) |
| Mode 4 | D-SUB 1920/1080/60Hz 3m(PC) |
| Mode 5 | HDMI1 4K (DVD) 3m |
| Mode 6 | USB |
| Mode 7 | LAN |
| Mode 8 | HDMI1 1920*1080/75Hz 3m(PC) |
| Mode 9 | HDMI1 640*480/75Hz 3m(PC) |
| Mode 10 | HDMI1 3840*2160/75Hz 2.5m(PC) |
| Mode 11 | HDMI1 3840*2160/75Hz 2m(PC) |
| Mode 12 | HDMI1 3840*2160/75Hz 1.8m(PC) |
| Mode 13 | HDMI1 3840*2160/75Hz 1.5m(PC) |
| Mode 14 | HDMI1 3840*2160/75Hz 1.2m(PC) |
| Mode 15 | HDMI1 3840*2160/75Hz 3m(PC)(Without Earphone) |

| AC Power Line Conducted Emissions test | | |
|--|-----------------------------|--|
| Final Test Mode | Description | |
| Mode 1 | HDMI1 3840*2160/75Hz 3m(PC) | |
| Mode 4 | D-SUB 1920/1080/60Hz 3m(PC) | |
| Mode 5 | HDMI1 4K (DVD) 3m | |

| Radiated emissions 30 MHz to 1 GHz test | | |
|---|---|--|
| Final Test Mode | Description | |
| Mode 1 | HDMI1 3840*2160/75Hz 3m(PC) | |
| Mode 4 | D-SUB 1920/1080/60Hz 3m(PC) | |
| Mode 5 | HDMI1 4K (DVD) 3m | |
| Mode 15 | HDMI1 3840*2160/75Hz 3m(PC)(Without Earphone) | |



| Radiated emissions Above 1 GHz test | | | | | | | |
|-------------------------------------|---|--|--|--|--|--|--|
| Final Test Mode Description | | | | | | | |
| Mode 1 | HDMI1 3840*2160/75Hz 3m(PC) | | | | | | |
| Mode 4 | D-SUB 1920/1080/60Hz 3m(PC) | | | | | | |
| Mode 5 | HDMI1 4K (DVD) 3m | | | | | | |
| Mode 15 | HDMI1 3840*2160/75Hz 3m(PC)(Without Earphone) | | | | | | |

Evaluation description:

- 1. The maximum resolution is evaluated Mode 1-7. The worst case is Mode 1 and evaluated the middle and low resolution Mode 8 and Mode 9. At last, evaluated the Mode 10 Mode 15.
- 2. According to the client's requirement, choose Mode 1, Mode 4, Mode 5 for conducted emissions, Mode 1, Mode 4, Mode 5, Mode 15 for radiated emissions and recorded in test report.



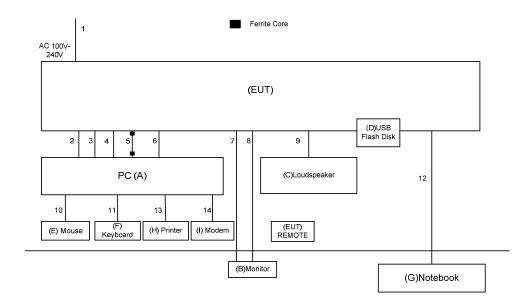
2.3 EUT OPERATING CONDITIONS

The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use. The standard test signals and output signal as following:

1. EUT connected to PC via HDMI & D-SUB & Audio cable.

- EUT connected to Monitor via IR OUT & RS232 cable.
- Mouse and Keyboard connected to PC via USB cable.
- EUT connected to Loudspeaker via Audio cable.
- 5. EUT connected to Notebook via RJ45 cable.
- 6. USB Flash Disk was plugged into EUT.
- 7. Modem connected to PC via RS232 cable.
- 8. Printer connected to PC via Parallel cable.

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





2.5 DESCRIPTION OF SUPPORT UNITS

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

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. |
|------|----------------|--------------------|----------------|-------------------------|
| Α | PC | DELL | 8920-D16N8S | GZS91L2 |
| В | Monitor | N/A | N/A | N/A |
| С | Loudspeaker | Behringer Holdings | MS20 | S1105384274 |
| D | USB Flash Disk | Kingston | N/A | N/A |
| E | Mouse | DELL | MS111-P | CN011D3V71581279OLOT |
| F | Keyboard | DELL | KB212-B | CN0HTXH97158125004DXA01 |
| G | Notebook | Lenovo | V310-14IKB | LR07SH32 |
| Н | Printer | SII | DPU-414 | 018507 B |
| I | Modem | ACEEX | DM-1414V | 0603002131 |

| Item | Cable Type | Shielded Type | Ferrite Core | Length |
|------|----------------|---------------|--------------|------------------|
| 1 | AC Cable | NO | NO | 3/2.5/2/1.8/1.5m |
| 2 | HDMI Cable | YES | NO | 1.8/1.5/1.2m |
| 3 | HDMI Cable | YES | NO | 1.8/1.5/1.2m |
| 4 | HDMI Cable | YES | NO | 1.8/1.5/1.2m |
| 5 | D-SUB Cable | YES | YES | 1.8/1.5/1.2m |
| 6 | Audio Cable | NO | NO | 1.8/1.5/1.2m |
| 7 | IR OUT Cable | YES | NO | 10m |
| 8 | RS232 Cable | NO | NO | 10m |
| 9 | Audio Cable | NO | NO | 1.2m |
| 10 | USB Cable | YES | NO | 1.8m |
| 11 | USB Cable | YES | NO | 1.8m |
| 12 | RJ45 Cable | NO | NO | 10m |
| 13 | Parallel Cable | YES | NO | 1.5m |
| 14 | RS232 Cable | YES | NO | 1.5m |



3. EMC EMISSION TEST

3.1 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1.1 LIMIT

| Frequency of Emission (MHz) | Class A (dBuV) | | | | |
|-----------------------------|----------------|---------|--|--|--|
| Frequency of Emission (MHZ) | Quasi-peak | Average | | | |
| 0.15 - 0.5 | 79 | 66 | | | |
| 0.5 - 5 | 73 | 60 | | | |
| 5 - 30 | 73 | 60 | | | |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:

 Measurement Value = Reading Level + Correct Factor

 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)

 Margin Level = Measurement Value Limit Value

3.1.2 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-----------------------------|--------------|--------------------------|------------|------------------|
| 1 | TWO-LINE V-NETWORK | R&S | ENV216 | 100526 | Jul. 10, 2022 |
| 2 | EMI Test Receiver | R&S | ESR3 | 101862 | Jan. 23, 2023 |
| 3* | Artificial-Mains Network | SCHWARZBECK | NSLK 8127 | 8127685 | Feb. 28, 2024 |
| 4 | Cable | N/A | RG400 | N/A(12m) | Mar. 08, 2023 |
| 5 | Measurement Software | Farad | EZ-EMC Ver.NB-03A1-01 | N/A | N/A |
| 6 | 50Ω Terminator | SHX | TF2-3G-A | 8122901 | Jan. 23, 2023 |

Remark: "N/A" denotes no model name, serial no. or calibration specified.

Except * item, all calibration period of equipment list is one year.

3.1.3 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- f. Measuring frequency range from 150KHz to 30MHz.

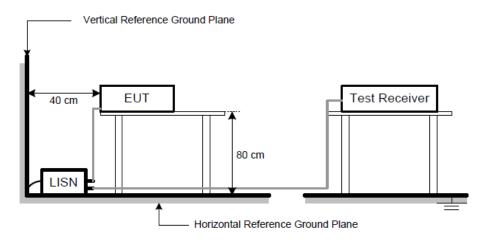
[&]quot;*" calibration period of equipment list is three year.



3.1.4 DEVIATION FROM TEST STANDARD

No deviation

3.1.5 TEST SETUP



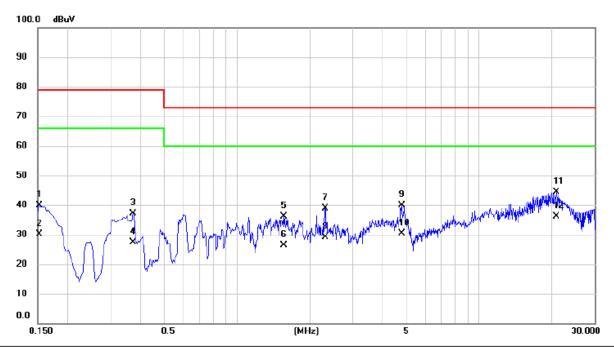
3.1.6 TEST RESULTS

Remark

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



| Test Voltage | AC 120V/60Hz | Phase | Line |
|--------------|--------------|-------|------|
| Test Mode | Mode 1 | | |



| No. M | ۸k. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-------|-----|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.1522 | 30.32 | 9.66 | 39.98 | 79.00 | -39.02 | QP | |
| 2 | | 0.1522 | 20.50 | 9.66 | 30.16 | 66.00 | -35.84 | AVG | |
| 3 | | 0.3727 | 27.40 | 9.71 | 37.11 | 79.00 | -41.89 | QP | |
| 4 | | 0.3727 | 17.60 | 9.71 | 27.31 | 66.00 | -38.69 | AVG | |
| 5 | | 1.5630 | 26.21 | 9.83 | 36.04 | 73.00 | -36.96 | QP | |
| 6 | | 1.5630 | 16.50 | 9.83 | 26.33 | 60.00 | -33.67 | AVG | |
| 7 | | 2.3100 | 28.97 | 9.89 | 38.86 | 73.00 | -34.14 | QP | |
| 8 | | 2.3100 | 19.20 | 9.89 | 29.09 | 60.00 | -30.91 | AVG | |
| 9 | | 4.7895 | 29.94 | 10.05 | 39.99 | 73.00 | -33.01 | QP | |
| 10 | | 4.7895 | 20.30 | 10.05 | 30.35 | 60.00 | -29.65 | AVG | |
| 11 | | 20.8613 | 33.75 | 10.54 | 44.29 | 73.00 | -28.71 | QP | |
| 12 * | | 20.8613 | 25.60 | 10.54 | 36.14 | 60.00 | -23.86 | AVG | |



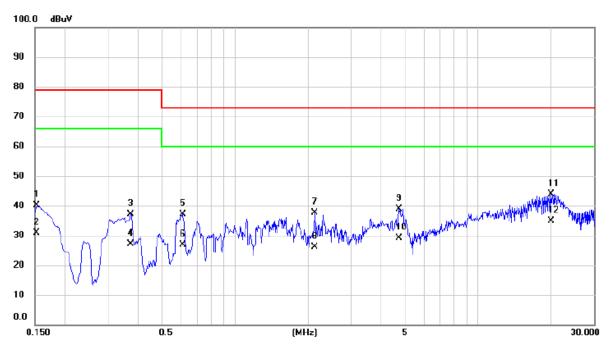
| Test Voltage | AC 120V/60Hz | Phase | Neutral |
|--------------|--------------|-------|---------|
| Test Mode | Mode 1 | | |



| No. I | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-------|-----|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.1522 | 30.00 | 9.66 | 39.66 | 79.00 | -39.34 | QP | |
| 2 | | 0.1522 | 20.30 | 9.66 | 29.96 | 66.00 | -36.04 | AVG | |
| 3 | | 0.3727 | 27.45 | 9.71 | 37.16 | 79.00 | -41.84 | QP | |
| 4 | | 0.3727 | 17.90 | 9.71 | 27.61 | 66.00 | -38.39 | AVG | |
| 5 | | 0.6134 | 27.19 | 9.74 | 36.93 | 73.00 | -36.07 | QP | |
| 6 | | 0.6134 | 17.50 | 9.74 | 27.24 | 60.00 | -32.76 | AVG | |
| 7 | | 4.7873 | 29.77 | 10.05 | 39.82 | 73.00 | -33.18 | QP | |
| 8 | | 4.7873 | 20.50 | 10.05 | 30.55 | 60.00 | -29.45 | AVG | |
| 9 | | 11.1210 | 28.86 | 10.32 | 39.18 | 73.00 | -33.82 | QP | |
| 10 | | 11.1210 | 18.60 | 10.32 | 28.92 | 60.00 | -31.08 | AVG | |
| 11 | | 20.2515 | 33.60 | 10.50 | 44.10 | 73.00 | -28.90 | QP | |
| 12 | * | 20.2515 | 24.30 | 10.50 | 34.80 | 60.00 | -25.20 | AVG | |



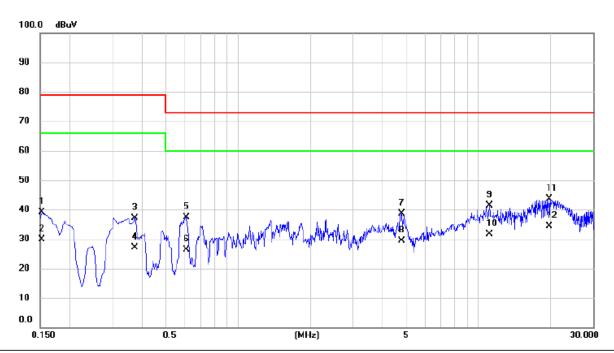
| Test Voltage | AC 120V/60Hz | Phase | Line |
|--------------|--------------|-------|------|
| Test Mode | Mode 4 | | |



| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|---------|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | 0.1522 | 30.43 | 9.66 | 40.09 | 79.00 | -38.91 | QP | |
| 2 | 0.1522 | 21.30 | 9.66 | 30.96 | 66.00 | -35.04 | AVG | |
| 3 | 0.3727 | 27.47 | 9.71 | 37.18 | 79.00 | -41.82 | QP | |
| 4 | 0.3727 | 17.50 | 9.71 | 27.21 | 66.00 | -38.79 | AVG | |
| 5 | 0.6090 | 27.34 | 9.74 | 37.08 | 73.00 | -35.92 | QP | |
| 6 | 0.6090 | 17.20 | 9.74 | 26.94 | 60.00 | -33.06 | AVG | |
| 7 | 2.1278 | 27.69 | 9.88 | 37.57 | 73.00 | -35.43 | QP | |
| 8 | 2.1278 | 16.30 | 9.88 | 26.18 | 60.00 | -33.82 | AVG | |
| 9 | 4.7400 | 28.90 | 10.04 | 38.94 | 73.00 | -34.06 | QP | |
| 10 | 4.7400 | 19.20 | 10.04 | 29.24 | 60.00 | -30.76 | AVG | |
| 11 | 19.9613 | 33.41 | 10.50 | 43.91 | 73.00 | -29.09 | QP | |
| 12 * | 19.9613 | 24.30 | 10.50 | 34.80 | 60.00 | -25.20 | AVG | |



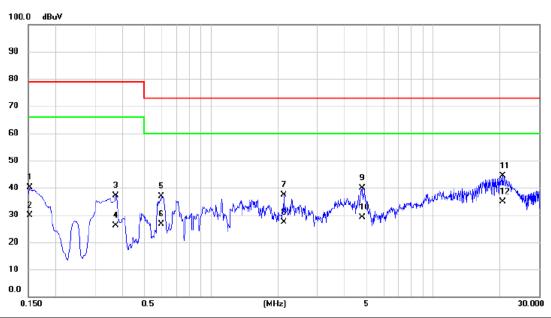
| Test Voltage | AC 120V/60Hz | Phase | Neutral |
|--------------|--------------|-------|---------|
| Test Mode | Mode 4 | | |



| No. MI | k. Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|--------|----------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | 0.1522 | 29.48 | 9.63 | 39.11 | 79.00 | -39.89 | QP | |
| 2 | 0.1522 | 20.30 | 9.63 | 29.93 | 66.00 | -36.07 | AVG | |
| 3 | 0.3727 | 27.45 | 9.67 | 37.12 | 79.00 | -41.88 | QP | |
| 4 | 0.3727 | 17.50 | 9.67 | 27.17 | 66.00 | -38.83 | AVG | |
| 5 | 0.6090 | 27.79 | 9.70 | 37.49 | 73.00 | -35.51 | QP | |
| 6 | 0.6090 | 16.80 | 9.70 | 26.50 | 60.00 | -33.50 | AVG | |
| 7 | 4.7963 | 28.65 | 10.05 | 38.70 | 73.00 | -34.30 | QP | |
| 8 | 4.7963 | 19.30 | 10.05 | 29.35 | 60.00 | -30.65 | AVG | |
| 9 | 11.1233 | 30.87 | 10.42 | 41.29 | 73.00 | -31.71 | QP | |
| 10 | 11.1233 | 21.20 | 10.42 | 31.62 | 60.00 | -28.38 | AVG | |
| 11 | 19.6553 | 32.83 | 10.80 | 43.63 | 73.00 | -29.37 | QP | |
| 12 * | 19.6553 | 23.50 | 10.80 | 34.30 | 60.00 | -25.70 | AVG | |



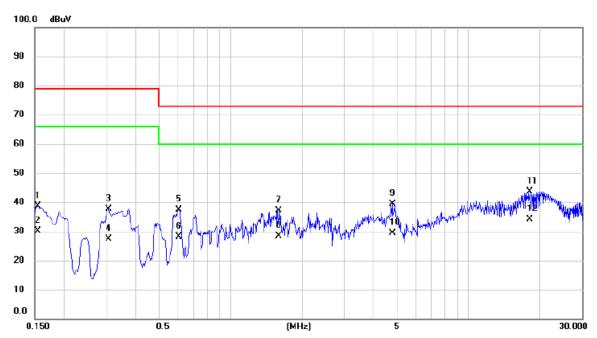
| Test Voltage | AC 120V/60Hz | Phase | Line |
|--------------|--------------|-------|------|
| Test Mode | Mode 5 | | |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|-----|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.1522 | 30.43 | 9.66 | 40.09 | 79.00 | -38.91 | QP | |
| 2 | | 0.1522 | 20.30 | 9.66 | 29.96 | 66.00 | -36.04 | AVG | |
| 3 | | 0.3727 | 27.48 | 9.71 | 37.19 | 79.00 | -41.81 | QP | |
| 4 | | 0.3727 | 16.50 | 9.71 | 26.21 | 66.00 | -39.79 | AVG | |
| 5 | | 0.5977 | 27.10 | 9.74 | 36.84 | 73.00 | -36.16 | QP | |
| 6 | | 0.5977 | 16.80 | 9.74 | 26.54 | 60.00 | -33.46 | AVG | |
| 7 | | 2.1278 | 27.57 | 9.88 | 37.45 | 73.00 | -35.55 | QP | |
| 8 | | 2.1278 | 17.60 | 9.88 | 27.48 | 60.00 | -32.52 | AVG | |
| 9 | | 4.7918 | 29.72 | 10.05 | 39.77 | 73.00 | -33.23 | QP | |
| 10 | | 4.7918 | 19.20 | 10.05 | 29.25 | 60.00 | -30.75 | AVG | |
| 11 | | 20.5778 | 33.76 | 10.52 | 44.28 | 73.00 | -28.72 | QP | |
| 12 | * | 20.5778 | 24.30 | 10.52 | 34.82 | 60.00 | -25.18 | AVG | |



| Test Voltage | AC 120V/60Hz | Phase | Neutral |
|--------------|--------------|-------|---------|
| Test Mode | Mode 5 | | |



| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|---------|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBu∨ | dB | Detector | Comment |
| 1 | 0.1545 | 29.10 | 9.63 | 38.73 | 79.00 | -40.27 | QP | |
| 2 | 0.1545 | 20.40 | 9.63 | 30.03 | 66.00 | -35.97 | AVG | |
| 3 | 0.3075 | 28.06 | 9.66 | 37.72 | 79.00 | -41.28 | QP | |
| 4 | 0.3075 | 17.60 | 9.66 | 27.26 | 66.00 | -38.74 | AVG | |
| 5 | 0.6045 | 27.56 | 9.70 | 37.26 | 73.00 | -35.74 | QP | |
| 6 | 0.6045 | 18.50 | 9.70 | 28.20 | 60.00 | -31.80 | AVG | |
| 7 | 1.5945 | 27.29 | 9.88 | 37.17 | 73.00 | -35.83 | QP | |
| 8 | 1.5945 | 18.50 | 9.88 | 28.38 | 60.00 | -31.62 | AVG | |
| 9 | 4.7828 | 29.45 | 10.05 | 39.50 | 73.00 | -33.50 | QP | |
| 10 | 4.7828 | 19.30 | 10.05 | 29.35 | 60.00 | -30.65 | AVG | |
| 11 | 18.1388 | 32.99 | 10.74 | 43.73 | 73.00 | -29.27 | QP | |
| 12 * | 18.1388 | 23.40 | 10.74 | 34.14 | 60.00 | -25.86 | AVG | |



3.2 RADIATED EMISSIONS 30 MHZ TO 1 GHZ

3.2.1 **LIMIT**

| | Class A (at 10m) | | | | |
|-----------------|------------------------|--|--|--|--|
| Frequency (MHz) | (dBuV/m) Quasi-peak | | | | |
| 30 - 88 | 40.0 | | | | |
| 88 - 216 | 43.5 | | | | |
| 216 - 230 | 46.4 | | | | |
| 230 - 960 | 47.0 | | | | |
| 960 - 1000 | 49.5 | | | | |

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m) = 20log Emission level (uV/m). 3m Emission level = 10m Emission level + 20log(10m/3m).
- (3) The test result calculated as following:

 Measurement Value = Reading Level + Correct Factor

 Correct Factor = Antenna Factor + Cable Loss Amplifier Gain(if use)

 Margin Level = Measurement Value Limit Value

3.2.2 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-----------------------------|------------------------|-----------------------|-------------|------------------|
| 1 | Receiver | Keysight | N9038A | MY54450004 | Jul. 10, 2022 |
| 2 | MXE EMI Receiver | Agilent | N9038A | MY53220133 | Jan. 22, 2023 |
| 3 | Pre-Amplifier | EMC INSTRUMENT | EMC 9135 | 980284 | Jul. 10, 2022 |
| 4 | Pre-Amplifier | EMC INSTRUMENT | EMC 9135 | 980283 | Jul. 10, 2022 |
| 5 | Trilog-Broadband Antenna | Schwarzbeck | VULB9168 | 947 | Oct. 19, 2022 |
| 6 | Trilog-Broadband Antenna | Schwarzbeck | VULB9168 | 946 | Sep. 11, 2022 |
| 7 | Cable | emci LMR-400(5m+8m+8m) | | N/A | Jan. 06, 2023 |
| 8 | Cable | emci | LMR-400(5m+8m+8m) | N/A | Jan. 06, 2023 |
| 9 | Measurement Software | Farad | EZ-EMC Ver.BTL-2ANT-1 | N/A | N/A |
| 10 | Multi-Device Controller | ETS-Lindgren | 2090 | N/A | N/A |
| 11 | Controller | MF | MF-7802 | MF780208159 | N/A |
| 12 | Attenuator | EMCI | EMCI-N-6-06 | AT-N0671 | Sep. 11, 2022 |
| 13 | Attenuator | EMCI | EMCI-N-6-06 | AT-N0670 | Oct. 19, 2022 |

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.

All calibration period of equipment list is one year.



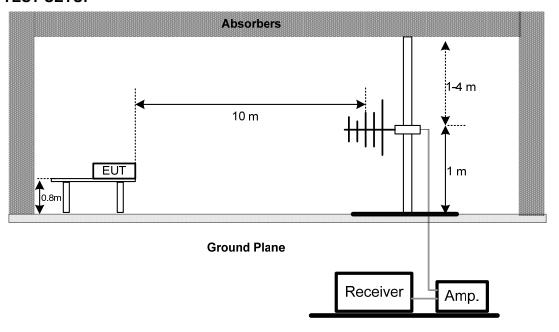
3.2.3 TEST PROCEDURE

- a. The measuring distance of 10 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The height of the equipment or of the substitution antenna shall be 0.8 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- d. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- f. For the actual test configuration, please refer to the related Item Block Diagram of system tested.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation

3.2.5 TEST SETUP



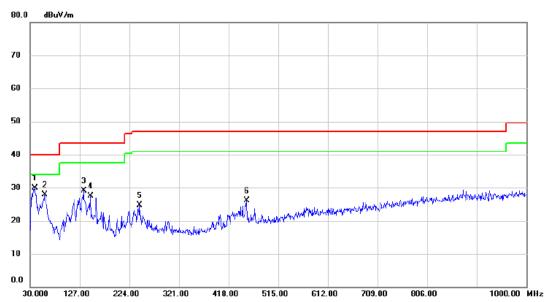
3.2.6 TEST RESULTS-BELOW 1 GHZ

Remark:

- (1) Measuring frequency range from 30 MHz to 1000 MHz
- (2) If the peak scan value lower limit more than 20 dB, then this signal data does not show in table.



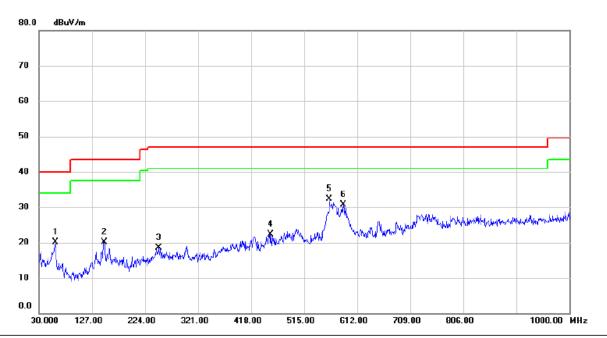
| Te | est Voltage | AC 120V/60Hz | Polarization | Vertical |
|----|-------------|--------------|--------------|----------|
| Te | est Mode | Mode 1 | L | |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 39.2150 | 47.69 | -17.75 | 29.94 | 40.00 | -10.06 | QP | |
| 2 | | 59.1000 | 45.27 | -17.39 | 27.88 | 40.00 | -12.12 | QP | |
| 3 | | 134.7600 | 46.43 | -17.30 | 29.13 | 43.50 | -14.37 | QP | |
| 4 | | 148.3400 | 44.16 | -16.62 | 27.54 | 43.50 | -15.96 | QP | |
| 5 | | 243.4000 | 41.57 | -16.93 | 24.64 | 47.00 | -22.36 | QP | |
| 6 | | 452.9200 | 36.78 | -10.74 | 26.04 | 47.00 | -20.96 | QP | |



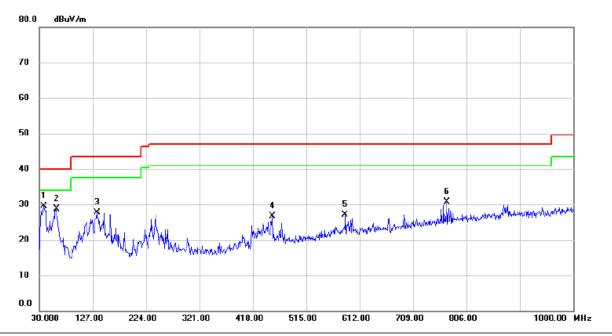
| Test Voltage | AC 120V/60Hz | Polarization | Horizontal |
|--------------|--------------|--------------|------------|
| Test Mode | Mode 1 | | |



| No. | Mk | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 60.0700 | 38.64 | -18.56 | 20.08 | 40.00 | -19.92 | QP | |
| 2 | | 149.3100 | 36.47 | -16.29 | 20.18 | 43.50 | -23.32 | QP | |
| 3 | | 249.2200 | 34.87 | -16.40 | 18.47 | 47.00 | -28.53 | QP | |
| 4 | | 453.8900 | 33.51 | -11.27 | 22.24 | 47.00 | -24.76 | QP | |
| 5 | * | 561.5600 | 42.12 | -9.80 | 32.32 | 47.00 | -14.68 | QP | |
| 6 | | 586.7800 | 39.74 | -9.04 | 30.70 | 47.00 | -16.30 | QP | |



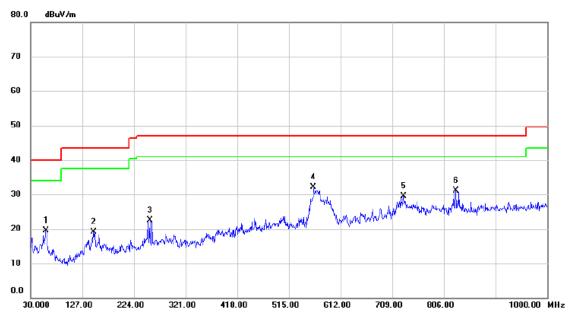
| Test Voltage | AC 120V/60Hz | Polarization | Vertical |
|--------------|--------------|--------------|----------|
| Test Mode | Mode 4 | | |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 37.7600 | 47.33 | -17.79 | 29.54 | 40.00 | -10.46 | QP | |
| 2 | | 61.0400 | 46.30 | -17.51 | 28.79 | 40.00 | -11.21 | QP | |
| 3 | | 134.7600 | 44.96 | -17.30 | 27.66 | 43.50 | -15.84 | QP | |
| 4 | | 453.8900 | 37.51 | -10.71 | 26.80 | 47.00 | -20.20 | QP | |
| 5 | | 585.8100 | 35.26 | -8.10 | 27.16 | 47.00 | -19.84 | QP | |
| 6 | | 770.1100 | 36.62 | -5.88 | 30.74 | 47.00 | -16.26 | QP | |



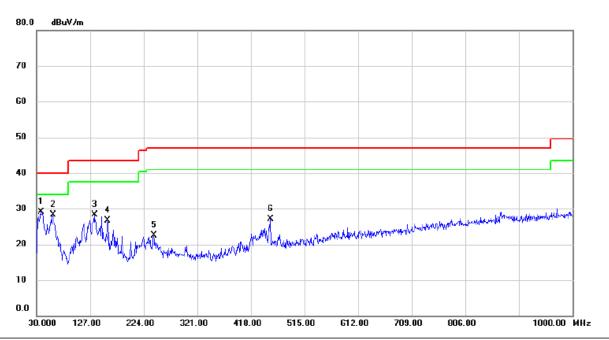
| l | Test Voltage | AC 120V/60Hz | Polarization | Horizontal |
|---|--------------|--------------|--------------|------------|
| | Test Mode | Mode 4 | | |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 59.1000 | 38.07 | -18.50 | 19.57 | 40.00 | -20.43 | QP | |
| 2 | 1 | 148.3400 | 35.41 | -16.39 | 19.02 | 43.50 | -24.48 | QP | |
| 3 | 2 | 254.0700 | 38.81 | -16.39 | 22.42 | 47.00 | -24.58 | QP | |
| 4 | * [| 561.5600 | 41.85 | -9.80 | 32.05 | 47.00 | -14.95 | QP | |
| 5 | 7 | 730.3400 | 37.02 | -7.43 | 29.59 | 47.00 | -17.41 | QP | |
| 6 | 8 | 328.3100 | 37.76 | -6.61 | 31.15 | 47.00 | -15.85 | QP | |



| Test Voltage | AC 120V/60Hz | Polarization | Vertical |
|--------------|--------------|--------------|----------|
| Test Mode | Mode 5 | | |



| No. | Mk | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 37.7600 | 46.90 | -17.79 | 29.11 | 40.00 | -10.89 | QP | |
| 2 | | 60.0700 | 45.75 | -17.43 | 28.32 | 40.00 | -11.68 | QP | |
| 3 | | 134.7600 | 45.55 | -17.30 | 28.25 | 43.50 | -15.25 | QP | |
| 4 | | 159.0100 | 43.03 | -16.33 | 26.70 | 43.50 | -16.80 | QP | |
| 5 | | 242.4300 | 39.45 | -16.95 | 22.50 | 47.00 | -24.50 | QP | |
| 6 | | 453.8900 | 37.76 | -10.71 | 27.05 | 47.00 | -19.95 | QP | |



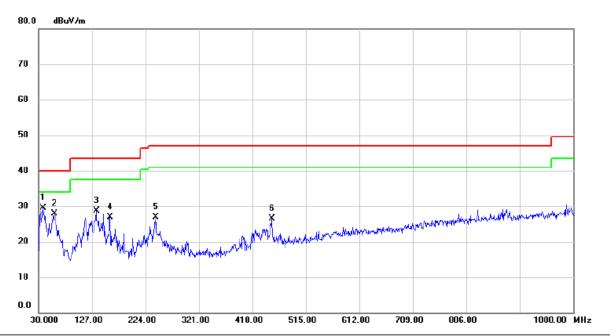
| l | Test Voltage | AC 120V/60Hz | Polarization | Horizontal |
|---|--------------|--------------|--------------|------------|
| | Test Mode | Mode 5 | | |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 58.1300 | 37.33 | -18.42 | 18.91 | 40.00 | -21.09 | QP | |
| 2 | 1 | 150.2800 | 36.59 | -16.22 | 20.37 | 43.50 | -23.13 | QP | |
| 3 | 2 | 299.6600 | 34.01 | -15.21 | 18.80 | 47.00 | -28.20 | QP | |
| 4 | 4 | 123.8200 | 34.90 | -12.09 | 22.81 | 47.00 | -24.19 | QP | |
| 5 | 5 | 503.3600 | 35.37 | -10.65 | 24.72 | 47.00 | -22.28 | QP | |
| 6 | * 5 | 566.4100 | 42.37 | -9.66 | 32.71 | 47.00 | -14.29 | QP | |



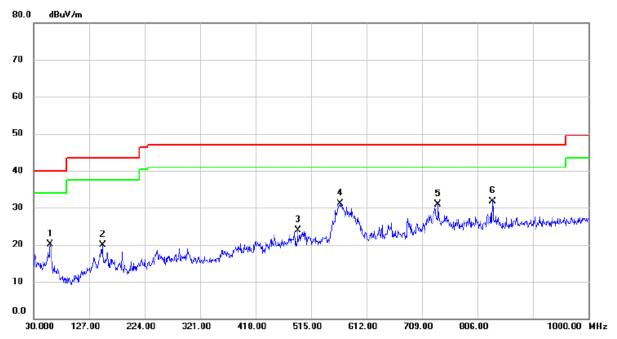
| Test Voltage | AC 120V/60Hz | Polarization | Vertical |
|--------------|--------------|--------------|----------|
| Test Mode | Mode 15 | | |



| No. | Mk | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 37.7600 | 47.38 | -17.79 | 29.59 | 40.00 | -10.41 | QP | |
| 2 | | 59.1000 | 45.26 | -17.39 | 27.87 | 40.00 | -12.13 | QP | |
| 3 | | 134.7600 | 45.99 | -17.30 | 28.69 | 43.50 | -14.81 | QP | |
| 4 | | 159.9800 | 43.28 | -16.30 | 26.98 | 43.50 | -16.52 | QP | |
| 5 | | 242.4300 | 43.80 | -16.95 | 26.85 | 47.00 | -20.15 | QP | |
| 6 | | 453.8900 | 37.28 | -10.71 | 26.57 | 47.00 | -20.43 | QP | |



| Test Voltage | AC 120V/60Hz | Polarization | Horizontal |
|--------------|--------------|--------------|------------|
| Test Mode | Mode 15 | | |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 59.1000 | 38.53 | -18.50 | 20.03 | 40.00 | -19.97 | QP | |
| 2 | | 150.2800 | 36.11 | -16.22 | 19.89 | 43.50 | -23.61 | QP | |
| 3 | | 491.7200 | 34.72 | -10.78 | 23.94 | 47.00 | -23.06 | QP | |
| 4 | | 566.4100 | 40.69 | -9.66 | 31.03 | 47.00 | -15.97 | QP | |
| 5 | | 737.1300 | 38.27 | -7.31 | 30.96 | 47.00 | -16.04 | QP | |
| 6 | * | 832.1900 | 38.33 | -6.60 | 31.73 | 47.00 | -15.27 | QP | |



3.3 RADIATED EMISSIONS ABOVE 1 GHZ

3.3.1 LIMIT

| Fraguenov | Class A | | | | | |
|--------------------|------------------|---------|--|--|--|--|
| Frequency (MHz) | (dBuV/m) (at 3m) | | | | | |
| (IVITIZ) | Peak | Average | | | | |
| Above 1000 | 80 | 60 | | | | |

FREQUENCY RANGE OF RADIATED MEASUREMENT (FOR UNINTENTIONAL RADIATORS)

| Highest internal frequency (Fx) | Highest measurement frequency (F _M) | | | | |
|---------------------------------|---|--|--|--|--|
| Fx ≤ 108 MHz | 1 GHz | | | | |
| 108 MHz < Fx ≤ 500 MHz | 2 GHz | | | | |
| 500 MHz < Fx ≤ 1 GHz | 5 GHz | | | | |
| Fx > 1 GHz | 5 x Fx up to a maximum of 40 GHz | | | | |
| 1 | | | | | |

Note: Fx is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.

NOTE:

(1) The tighter limit applies at the band edges.

(2) Emission level (dBuV/m) = 20log Emission level (uV/m). 3m Emission level = 10m Emission level + 20log(10m/3m).

(3) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

3.3.2 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|----------------------------|--------------|-----------------------------|--------------|------------------|
| 1 | Horn Antenna | EMCO | 3115 | 9605-4803 | May 26, 2022 |
| 2 | Amplifier | Agilent | 8449B | 3008A02333 | Jan. 22, 2023 |
| 3 | MXE EMI Receiver | Agilent | N9038A | MY53220133 | Jan. 22, 2023 |
| 4 | Measurement Software | Farad | EZ-EMC Ver.BTL-2ANT-1 | N/A | N/A |
| 5 | Multi-Device Controller | ETS-Lindgren | 2090 | N/A | N/A |
| 6 | Controller | MF | MF-7802 | MF780208159 | N/A |
| 7 | Cable Micable | | RWLP50-4.0A-SMSM-12 M-KJ | 20191107 002 | Mar. 04, 2023 |

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.

All calibration period of equipment list is one year.



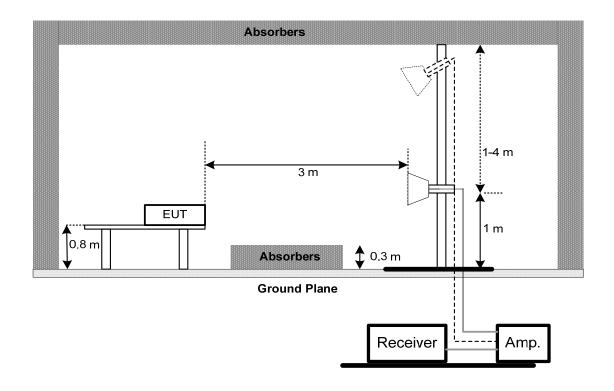
3.3.3 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The height of the equipment or of the substitution antenna shall be 0.8 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- d. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform.
- g. For the actual test configuration, please refer to the related Item Block Diagram of system tested.

3.3.4 DEVIATION FROM TEST STANDARD

No deviation

3.3.5 TEST SETUP





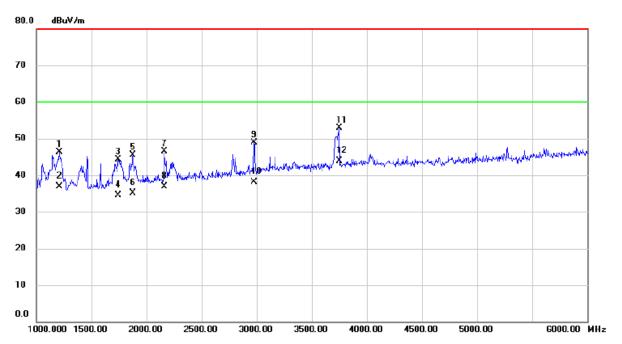
3.3.6 TEST RESULTS-ABOVE 1 GHZ

Remark:

- (1) Radiated emissions measured in frequency range above 1000 MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (2) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
- (3) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.



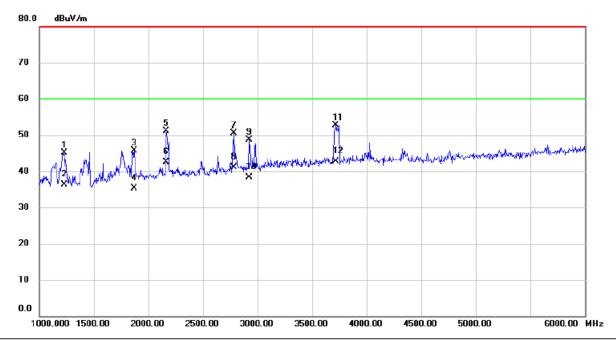
| Test Voltage | AC 120V/60Hz | Polarization | Vertical |
|--------------|--------------|--------------|----------|
| Test Mode | Mode 1 | | |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | , | 1207.500 | 49.48 | -3.24 | 46.24 | 80.00 | -33.76 | peak | |
| 2 | • | 1207.500 | 40.11 | -3.24 | 36.87 | 60.00 | -23.13 | AVG | |
| 3 | , | 1745.000 | 44.44 | -0.21 | 44.23 | 80.00 | -35.77 | peak | |
| 4 | , | 1745.000 | 34.81 | -0.21 | 34.60 | 60.00 | -25.40 | AVG | |
| 5 | | 1875.000 | 44.79 | 0.71 | 45.50 | 80.00 | -34.50 | peak | |
| 6 | , | 1875.000 | 34.49 | 0.71 | 35.20 | 60.00 | -24.80 | AVG | |
| 7 | 2 | 2160.000 | 44.32 | 2.18 | 46.50 | 80.00 | -33.50 | peak | |
| 8 | 2 | 2160.000 | 34.81 | 2.18 | 36.99 | 60.00 | -23.01 | AVG | |
| 9 | 2 | 2977.500 | 43.16 | 5.66 | 48.82 | 80.00 | -31.18 | peak | |
| 10 | 2 | 2977.500 | 32.46 | 5.66 | 38.12 | 60.00 | -21.88 | AVG | |
| 11 | ; | 3750.000 | 44.31 | 8.69 | 53.00 | 80.00 | -27.00 | peak | |
| 12 | * (| 3750.000 | 35.20 | 8.69 | 43.89 | 60.00 | -16.11 | AVG | |



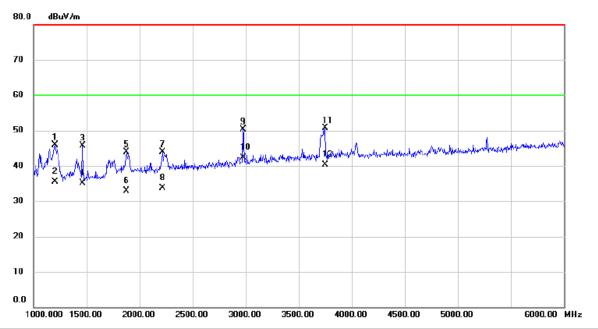
| Test Voltage | AC 120V/60Hz | Polarization | Horizontal |
|--------------|--------------|--------------|------------|
| Test Mode | Mode 1 | | |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | , | 1227.500 | 48.33 | -3.15 | 45.18 | 80.00 | -34.82 | peak | |
| 2 | , | 1227.500 | 39.48 | -3.15 | 36.33 | 60.00 | -23.67 | AVG | |
| 3 | , | 1872.500 | 45.13 | 0.67 | 45.80 | 80.00 | -34.20 | peak | |
| 4 | , | 1872.500 | 34.65 | 0.67 | 35.32 | 60.00 | -24.68 | AVG | |
| 5 | 2 | 2162.500 | 48.85 | 2.20 | 51.05 | 80.00 | -28.95 | peak | |
| 6 | 2 | 2162.500 | 40.26 | 2.20 | 42.46 | 60.00 | -17.54 | AVG | |
| 7 | 2 | 2780.000 | 45.79 | 4.77 | 50.56 | 80.00 | -29.44 | peak | |
| 8 | 2 | 2780.000 | 36.26 | 4.77 | 41.03 | 60.00 | -18.97 | AVG | |
| 9 | 2 | 2922.500 | 43.19 | 5.42 | 48.61 | 80.00 | -31.39 | peak | |
| 10 | 2 | 2922.500 | 32.91 | 5.42 | 38.33 | 60.00 | -21.67 | AVG | |
| 11 | 3 | 3717.500 | 44.14 | 8.57 | 52.71 | 80.00 | -27.29 | peak | |
| 12 | * (| 3717.500 | 34.16 | 8.57 | 42.73 | 60.00 | -17.27 | AVG | |



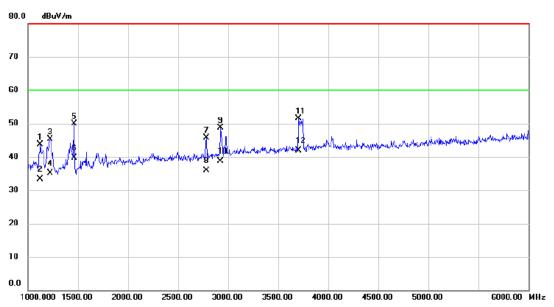
| Test Voltage | AC 120V/60Hz | Polarization | Vertical |
|--------------|--------------|--------------|----------|
| Test Mode | Mode 4 | | |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 1205.000 | 49.17 | -3.25 | 45.92 | 80.00 | -34.08 | peak | |
| 2 | | 1205.000 | 38.72 | -3.25 | 35.47 | 60.00 | -24.53 | AVG | |
| 3 | | 1460.000 | 47.83 | -2.10 | 45.73 | 80.00 | -34.27 | peak | |
| 4 | | 1460.000 | 37.26 | -2.10 | 35.16 | 60.00 | -24.84 | AVG | |
| 5 | | 1877.500 | 43.10 | 0.72 | 43.82 | 80.00 | -36.18 | peak | |
| 6 | | 1877.500 | 32.26 | 0.72 | 32.98 | 60.00 | -27.02 | AVG | |
| 7 | | 2217.500 | 41.57 | 2.41 | 43.98 | 80.00 | -36.02 | peak | |
| 8 | | 2217.500 | 31.28 | 2.41 | 33.69 | 60.00 | -26.31 | AVG | |
| 9 | | 2977.500 | 44.58 | 5.66 | 50.24 | 80.00 | -29.76 | peak | |
| 10 | * | 2977.500 | 36.67 | 5.66 | 42.33 | 60.00 | -17.67 | AVG | |
| 11 | ; | 3750.000 | 42.00 | 8.69 | 50.69 | 80.00 | -29.31 | peak | |
| 12 | ; | 3750.000 | 31.68 | 8.69 | 40.37 | 60.00 | -19.63 | AVG | |



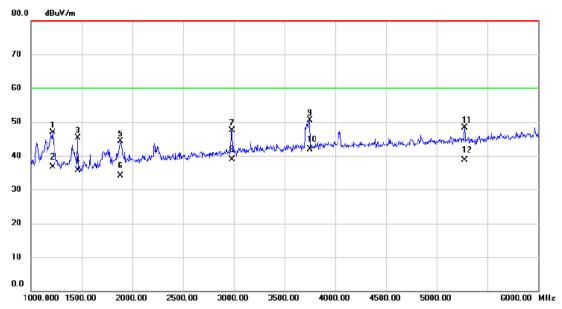
| Test Voltage | AC 120V/60Hz | AC 120V/60Hz Polarization Horizontal | | | | | | |
|--------------|--------------|--------------------------------------|--|--|--|--|--|--|
| Test Mode | Mode 4 | | | | | | | |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 1125.000 | 47.34 | -3.60 | 43.74 | 80.00 | -36.26 | peak | |
| 2 | | 1125.000 | 36.86 | -3.60 | 33.26 | 60.00 | -26.74 | AVG | |
| 3 | | 1220.000 | 48.52 | -3.18 | 45.34 | 80.00 | -34.66 | peak | |
| 4 | | 1220.000 | 38.29 | -3.18 | 35.11 | 60.00 | -24.89 | AVG | |
| 5 | | 1465.000 | 51.92 | -2.08 | 49.84 | 80.00 | -30.16 | peak | |
| 6 | | 1465.000 | 41.86 | -2.08 | 39.78 | 60.00 | -20.22 | AVG | |
| 7 | | 2782.500 | 40.97 | 4.78 | 45.75 | 80.00 | -34.25 | peak | |
| 8 | | 2782.500 | 31.14 | 4.78 | 35.92 | 60.00 | -24.08 | AVG | |
| 9 | | 2925.000 | 43.20 | 5.42 | 48.62 | 80.00 | -31.38 | peak | |
| 10 | | 2925.000 | 33.24 | 5.42 | 38.66 | 60.00 | -21.34 | AVG | |
| 11 | | 3705.000 | 42.99 | 8.52 | 51.51 | 80.00 | -28.49 | peak | |
| 12 | * | 3705.000 | 33.37 | 8.52 | 41.89 | 60.00 | -18.11 | AVG | |



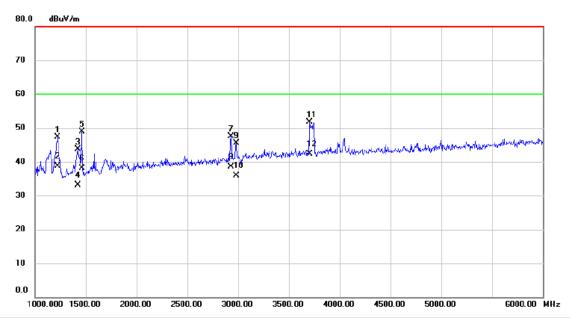
| Test Voltage | AC 120V/60Hz | Polarization | Vertical |
|--------------|--------------|--------------|----------|
| Test Mode | Mode 5 | | |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 1217.500 | 50.13 | -3.20 | 46.93 | 80.00 | -33.07 | peak | |
| 2 | | 1217.500 | 39.93 | -3.20 | 36.73 | 60.00 | -23.27 | AVG | |
| 3 | | 1465.000 | 47.34 | -2.08 | 45.26 | 80.00 | -34.74 | peak | |
| 4 | | 1465.000 | 37.72 | -2.08 | 35.64 | 60.00 | -24.36 | AVG | |
| 5 | | 1880.000 | 43.65 | 0.74 | 44.39 | 80.00 | -35.61 | peak | |
| 6 | | 1880.000 | 33.46 | 0.74 | 34.20 | 60.00 | -25.80 | AVG | |
| 7 | - 2 | 2980.000 | 41.87 | 5.68 | 47.55 | 80.00 | -32.45 | peak | |
| 8 | 2 | 2980.000 | 33.23 | 5.68 | 38.91 | 60.00 | -21.09 | AVG | |
| 9 | ; | 3750.000 | 41.88 | 8.69 | 50.57 | 80.00 | -29.43 | peak | |
| 10 | * . | 3750.000 | 33.31 | 8.69 | 42.00 | 60.00 | -18.00 | AVG | |
| 11 | į | 5277.500 | 35.53 | 12.77 | 48.30 | 80.00 | -31.70 | peak | |
| 12 | ļ | 5277.500 | 25.85 | 12.77 | 38.62 | 60.00 | -21.38 | AVG | |



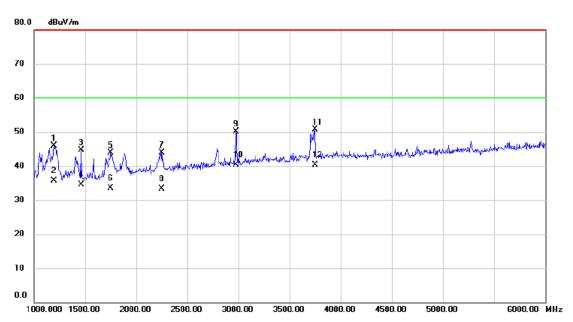
| Test Voltage | AC 120V/60Hz | Polarization | Horizontal | |
|--------------|--------------|--------------|------------|--|
| Test Mode | Mode 5 | | | |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 1225.000 | 50.51 | -3.16 | 47.35 | 80.00 | -32.65 | peak | |
| 2 | | 1225.000 | 41.85 | -3.16 | 38.69 | 60.00 | -21.31 | AVG | |
| 3 | | 1422.500 | 45.93 | -2.27 | 43.66 | 80.00 | -36.34 | peak | |
| 4 | | 1422.500 | 35.47 | -2.27 | 33.20 | 60.00 | -26.80 | AVG | |
| 5 | | 1465.000 | 50.90 | -2.08 | 48.82 | 80.00 | -31.18 | peak | |
| 6 | | 1465.000 | 40.19 | -2.08 | 38.11 | 60.00 | -21.89 | AVG | |
| 7 | - 2 | 2927.500 | 42.01 | 5.44 | 47.45 | 80.00 | -32.55 | peak | |
| 8 | - 2 | 2927.500 | 33.07 | 5.44 | 38.51 | 60.00 | -21.49 | AVG | |
| 9 | 2 | 2980.000 | 39.86 | 5.68 | 45.54 | 80.00 | -34.46 | peak | |
| 10 | - 2 | 2980.000 | 30.25 | 5.68 | 35.93 | 60.00 | -24.07 | AVG | |
| 11 | ; | 3705.000 | 43.12 | 8.52 | 51.64 | 80.00 | -28.36 | peak | |
| 12 | * (| 3705.000 | 33.84 | 8.52 | 42.36 | 60.00 | -17.64 | AVG | |



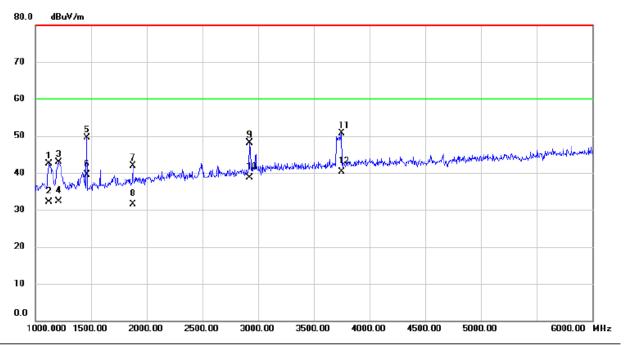
| Test Voltage | AC 120V/60Hz | Polarization | Vertical |
|--------------|--------------|--------------|----------|
| Test Mode | Mode 15 | | |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 1 | 1195.000 | 49.11 | -3.30 | 45.81 | 80.00 | -34.19 | peak | |
| 2 | , | 1195.000 | 38.91 | -3.30 | 35.61 | 60.00 | -24.39 | AVG | |
| 3 | 1 | 1462.500 | 46.87 | -2.09 | 44.78 | 80.00 | -35.22 | peak | |
| 4 | , | 1462.500 | 36.62 | -2.09 | 34.53 | 60.00 | -25.47 | AVG | |
| 5 | , | 1752.500 | 44.14 | -0.16 | 43.98 | 80.00 | -36.02 | peak | |
| 6 | 1 | 1752.500 | 33.72 | -0.16 | 33.56 | 60.00 | -26.44 | AVG | |
| 7 | 2 | 2250.000 | 41.38 | 2.53 | 43.91 | 80.00 | -36.09 | peak | |
| 8 | 2 | 2250.000 | 30.76 | 2.53 | 33.29 | 60.00 | -26.71 | AVG | |
| 9 | 2 | 2975.000 | 44.48 | 5.66 | 50.14 | 80.00 | -29.86 | peak | |
| 10 | 2 | 2975.000 | 34.60 | 5.66 | 40.26 | 60.00 | -19.74 | AVG | |
| 11 | 3 | 3750.000 | 42.06 | 8.69 | 50.75 | 80.00 | -29.25 | peak | |
| 12 | * 3 | 3750.000 | 31.62 | 8.69 | 40.31 | 60.00 | -19.69 | AVG | |



| Test Voltage | AC 120V/60Hz | Polarization | Horizontal |
|--------------|--------------|--------------|------------|
| Test Mode | Mode 15 | | |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 1125.000 | 46.10 | -3.60 | 42.50 | 80.00 | -37.50 | peak | |
| 2 | | 1125.000 | 35.61 | -3.60 | 32.01 | 60.00 | -27.99 | AVG | |
| 3 | | 1207.500 | 46.12 | -3.24 | 42.88 | 80.00 | -37.12 | peak | |
| 4 | | 1207.500 | 35.56 | -3.24 | 32.32 | 60.00 | -27.68 | AVG | |
| 5 | | 1465.000 | 51.52 | -2.08 | 49.44 | 80.00 | -30.56 | peak | |
| 6 | | 1465.000 | 41.52 | -2.08 | 39.44 | 60.00 | -20.56 | AVG | |
| 7 | | 1875.000 | 41.17 | 0.71 | 41.88 | 80.00 | -38.12 | peak | |
| 8 | | 1875.000 | 30.86 | 0.71 | 31.57 | 60.00 | -28.43 | AVG | |
| 9 | | 2920.000 | 42.77 | 5.41 | 48.18 | 80.00 | -31.82 | peak | |
| 10 | | 2920.000 | 33.21 | 5.41 | 38.62 | 60.00 | -21.38 | AVG | |
| 11 | | 3750.000 | 41.98 | 8.69 | 50.67 | 80.00 | -29.33 | peak | |
| 12 | * | 3750.000 | 31.55 | 8.69 | 40.24 | 60.00 | -19.76 | AVG | |



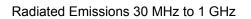
4. EUT TEST PHOTO

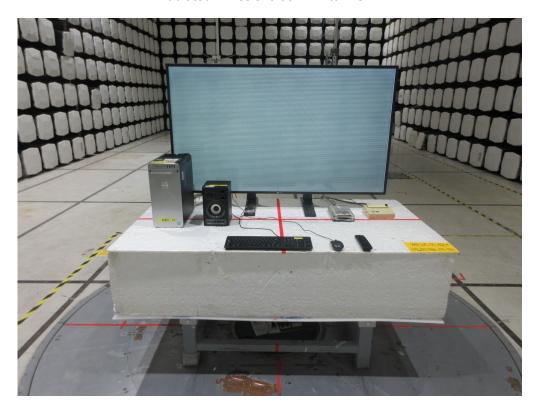






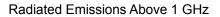




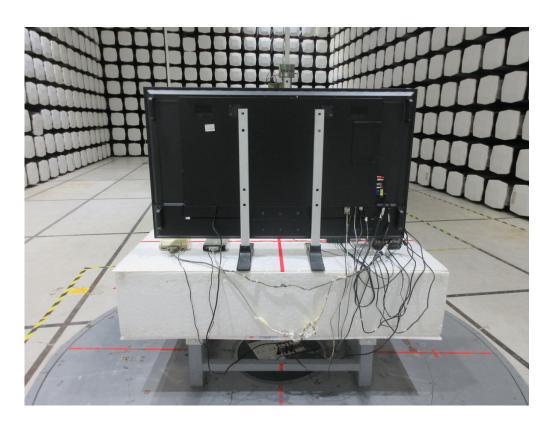












End of Test Report