

FCC TEST REPORT

FCC ID: 2BG8W-CS8268

| Applicant: | Shenzhen chuang jin heng electrionic technolog co., LTD |
|--------------------------|--|
| Address: | 3# No. 1 Anquan Road, Xintang Industrial, Baishixia, Fuyong Town, Bao'an District, Shenzhen, China |
| Manufacturer: | Shenzhen chuang jin heng electrionic technolog co., LTD |
| Address: | 3# No. 1 Anquan Road, Xintang Industrial, Baishixia, Fuyong Town, Bao'an District, Shenzhen, China |
| EUT: | Digital HDTV Antenna |
| Trade Mark: | Ň/A COLOR AL |
| Model Number: | ANT-CS8268 ANT-CS8018-8098, ANT-CS8118-8198, ANT-CS8218-8298, ANT-CS8318-8398, ANT-CS8418-8498, ANT-CS8518-8598, ANT-CS8618-8698, ANT-CS8718-8798, ANT-CS8818-8898, ANT-CS8918-8998 |
| Date of Receipt: | Jun. 14, 2024 |
| Test Date: | Jun. 14, 2024 - Jul. 03, 2024 |
| Date of Report: | Jul. 03, 2024 |
| Prepared By: | Shenzhen DL Testing Technology Co., Ltd. |
| Address: | 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China |
| Applicable Standards: | FCC Part 15 Subpart B ANSI C63.4:2014 |
| Test Result: | Pass |
| Report Number: | DL-240614010ER |
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| Prepared (Test E | |
| Reviewer (Supe | rvisor): Jack Bu |
| Approved (Mana | iger): Jade Yang |
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This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.



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Report No.: DL-240614010ER

1. VERSION

| VERSION | | |
|-------------|---------------|-------------|
| Version No. | Date | Description |
| × 00 🔨 | Jul. 03, 2024 | Original |
| C° i | | |
| | | |

2. TEST SUMMARY

| EMC Emission | | | | | | | |
|---------------------------------|--|---------|------|------|--|--|--|
| Standard Test Item Limit Result | | | | | | | |
| | Conducted Emission at power ports 15.107 | Class B | PASS | Co | | | |
| | Radiated Emission below 1GHz 15.109 | Class B | PASS | V co | | | |
| FCC PART 15 B | Radiated Emission above 1GHz 15.109 | Class B | PASS | | | | |
| | Conducted Emission at antenna ports 15.111 | Class B | PASS | | | | |

NOTE:

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

(2) Test Facility: Shenzhen DL Testing Technology Co., Ltd. Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China



Report No.: DL-240614010ER

3. GENERAL INFORMATION

- 3.1 Description of Device (EUT)
 - EUT: <

Digital HDTV Antenna

Trade Mark:

Model Number:

N/A

ANT-CS8268 ANT-CS8018-8098, ANT-CS8118-8198, ANT-CS8218-8298, ANT-CS8318-8398, ANT-CS8418-8498, ANT-CS8518-8598, ANT-CS8618-8698, ANT-CS8718-8798, ANT-CS8818-8898, ANT-CS8918-8998

Test Model: ANT-CS8268

Model difference: The product's different for model number and appearance color.

Power Supply: DC 5V

Working Frequency: Above 108MHz

3.2 Tested System Details

None.

3.3 Block Diagram of Test Set-up

Radiated Emission test set-up:

| AC Mains 🛛 🔶 |) A | тү | 000 | EUT | |
|--------------|--------|----|-----|---|---|
| | C° - | | Ň | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | I |

Adapter

| Conducted Emission test set-up: | AC Mains | AC Mains |
|---------------------------------|----------|----------|
| Or cert a or cert | | |

EUT

Set top box

TV

| - | \sim | | |
|---|--------|------|--|

3.4 Test Mode Description

AC Mains

Mode1. On Mode



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3.5 Test Auxiliary Equipment TV (Provide by test lab): Manufacturer: coocaa Model: Cooc1 I/P: AC 110-240V 50/60Hz AC Line: Unshielded, Undetachable 1.6m Set top box(Provide by test lab): Manufacturer: TP-LINK Model: TP-001

Adapter (Provide by test lab): Manufacturer: HAIWEI Model: HW-0501000E I/P: AC 100-240V 50/60Hz O/P: DC 5V 1A

3.6 Test Uncertainty

Conducted Emission Uncertainty : ±2.56dB

Radiated Emission Uncertainty

I/P: AC 110-240V 50/60Hz

: ±3.65dB



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4. TEST INSTRUMENT USED

For Conducted Emission Test (843 Shielded Room)

| Equipment | Manufacturer | Model | Serial | Last Cal. | Next Cal. |
|----------------------|--------------|-----------|--------|---------------|---------------|
| 843 Shielded Room | ChengYu | 843 Room | 843 | Sep. 20, 2022 | Sep. 19, 2025 |
| EMI Receiver | R&S | ESR O | 101421 | Nov. 04, 2023 | Nov. 03, 2024 |
| | R&S | ENV216 | 102417 | Nov. 04, 2023 | Nov. 03, 2024 |
| Clamp | COM-POWER | CLA-050 | 431071 | Nov. 04, 2023 | Nov. 03, 2024 |
| 3-Loop Antenna | DAZE | ZN30401 | 13021 | Nov. 04, 2023 | Nov. 03, 2024 |
| ISN T8 | Schwarzbeck | NTFM 8158 | 101135 | Nov. 04, 2023 | Nov. 03, 2024 |
| ISN T5 | Schwarzbeck | NTFM 8158 | 101136 | Nov. 04, 2023 | Nov. 03, 2024 |
| 843 Cable 1# | ChengYu | CE Cable | 001 | Nov. 04, 2023 | Nov. 03, 2024 |
| 843 Cable 1# | ChengYu | CE Cable | 002 | Nov. 04, 2023 | Nov. 03, 2024 |

For Radiated Emission Test (966 chamber)

| Equipment | Manufacturer | Model | Serial | Last Cal. | Next Cal. |
|-----------------------------|--------------|-----------|------------|---------------|---------------|
| 966 Chamber | ChengYu | 966 Room | 966-0 | Nov. 06, 2023 | Nov. 05, 2026 |
| Spectrum Analyzer | Agilent | E4408B | MY50140780 | Nov. 04, 2023 | Nov. 03, 2024 |
| EMI Receiver | R&S | ESRP7 | 101393 | Nov. 04, 2023 | Nov. 03, 2024 |
| Amplifier | Schwarzbeck | BBV9743B | 00153 | Nov. 04, 2023 | Nov. 03, 2024 |
| Amplifier | EMEC | EM01G8GA | 00270 | Nov. 04, 2023 | Nov. 03, 2024 |
| Broadband Trilog Antenna | Schwarzbeck | VULB9162 | 00306 | Nov. 04, 2023 | Nov. 03, 2024 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 02139 | Nov. 04, 2023 | Nov. 03, 2024 |
| 966 Cable 1# | ChengYu | 966 | 004 | Nov. 04, 2023 | Nov. 03, 2024 |
| 966 Cable 2# | ChengYu | 966 | 003 | Nov. 04, 2023 | Nov. 03, 2024 |

Other

| Name | Manufacturer | Model | Software version |
|----------------------------|--------------|--------|------------------|
| EMC Conduction Test System | FALA 🤇 | EZ_EMC | EMC-CON 3A1.1 |
| EMC radiation test system | FALA | EZ_EMC | FA-03A2 |

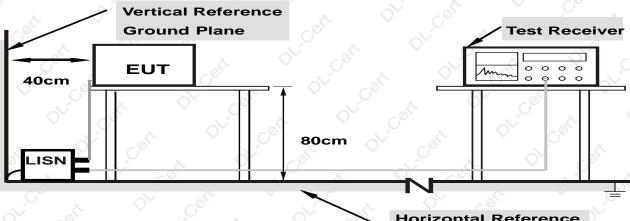


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5. CONDUCTED EMISSION TEST

5.1 Block Diagram of Test Setup

For Mains Terminals Test



Horizontal Reference Ground Plane

Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

5.2 Test Standard and Limit

FCC PART 15 B

| Frequency | Limits dB(µV) | | | | |
|------------|------------------|---------------|--|--|--|
| MHz | Quasi-peak Level | Average Level | | | |
| 0.15~0.50 | 66 ~ 56* | 56 ~ 46* | | | |
| 0.50~5.00 | 56 | 46 | | | |
| 5.00~30.00 | 60 | ى 50 ئ | | | |

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

5.3 EUT Configuration on Test

The following equipment's are installed on conducted emission test to meet FCC PART 15 B requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

5.4 Operating Condition of EUT

5.4.1 Setup the EUT and simulators as shown in Section 5.1.

5.4.2 Turn on the power of all equipments.

5.4.3 Let the EUT work in test modes and test it.



5.5 Test Procedure

The EUT is put on the table and connected to the AC mains through a Artificial Mains Network (AMN) or ISN. This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are checked to find out the maximum conducted emission levels according to the **ANSI C63.4** regulations during conducted emission test.

The bandwidth of the test receiver (R&S Test Receiver ESR) is set at 10KHz. The frequency range from 150 KHz to 30 MHz is investigated.

5.6 Test Result

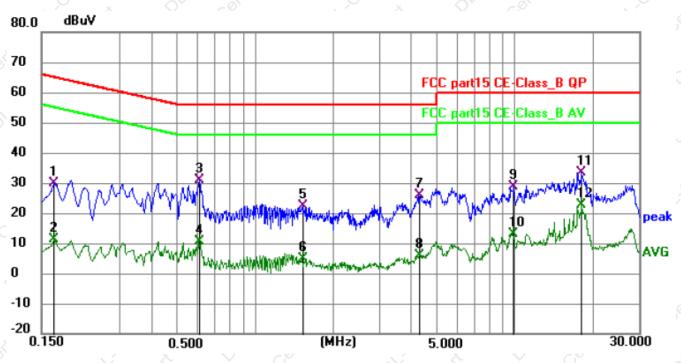
PASS

Please refer to the following page.



Report No.: DL-240614010ER

| Conducted Emission Test Data | | | | | | |
|------------------------------|---------------|--------------------|--------|--|--|--|
| Temperature: | 24.5 ℃ | Relative Humidity: | 54% | | | |
| Pressure: | 1009hPa | Phase: | Line | | | |
| Test Voltage: | AC 120V/60Hz | Test Mode: | Mode 1 | | | |



| 1 | | | | | | | | | |
|-----|--------------------|-------------------|----------------|-----------------|-----------------|----------------|----------|-----|--------|
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
| 1 | 0.1680 | 19.86 | 10.03 | 29.89 | 65.06 | -35.17 | QP | Ρ | |
| 2 | 0.1680 | 1.07 | 10.03 | 11.10 | 55.06 | -43.96 | AVG | Ρ | |
| 3 * | 0.6090 | 20.72 | 10.13 | 30.85 | 56.00 | -25.15 | QP | Ρ | |
| 4 | 0.6090 | 0.35 | 10.13 | 10.48 | 46.00 | -35.52 | AVG | Ρ | |
| 5 | 1.5225 | 12.28 | 10.06 | 22.34 | 56.00 | -33.66 | QP | Ρ | |
| 6 | 1.5225 | -5.11 | 10.06 | 4.95 | 46.00 | -41.05 | AVG | Ρ | |
| 7 | 4.3034 | 15.78 | 10.26 | 26.04 | 56.00 | -29.96 | QP | Ρ | |
| 8 | 4.3034 | -4.33 | 10.26 | 5.93 | 46.00 | -40.07 | AVG | Ρ | |
| 9 | 9.8700 | 17.52 | 11.24 | 28.76 | 60.00 | -31.24 | QP | Ρ | |
| 10 | 9.8700 | 1.63 | 11.24 | 12.87 | 50.00 | -37.13 | AVG | Ρ | |
| 11 | 18.0735 | 21.50 | 11.93 | 33.43 | 60.00 | -26.57 | QP | Ρ | |
| 12 | 18.0735 | 10.65 | 11.93 | 22.58 | 50.00 | -27.42 | AVG | Ρ | |

Remark:Correct Factor = Cable lose + LISN insertion loss; Level = Reading + Correct factor;Margin = Level – Limit;



50

40

30

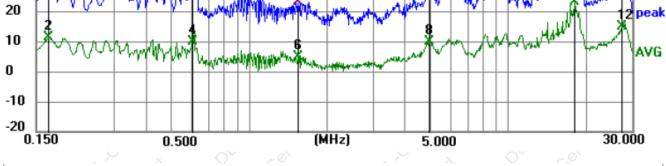
| Shenzhen DL | Testing | Technology | Co., I | _td. |
|-------------|---------|------------|--------|------|
|-------------|---------|------------|--------|------|

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n

| | Conducted Em | ission Test Data | |
|---------------|--------------|--------------------------|---------------|
| Temperature: | 24.5℃ | Relative Humidity: | 54% |
| Pressure: | 1009hPa | Phase: | Neutral |
| Test Voltage: | AC 120V/60Hz | Test Mode: | Mode 1 |
| 0.0 dBu∀ | | | |
| 0 | | FC <mark>C part15</mark> | CE-Class_B QP |
| 0 | | FCC part15 | CE-Class_B AV |



5

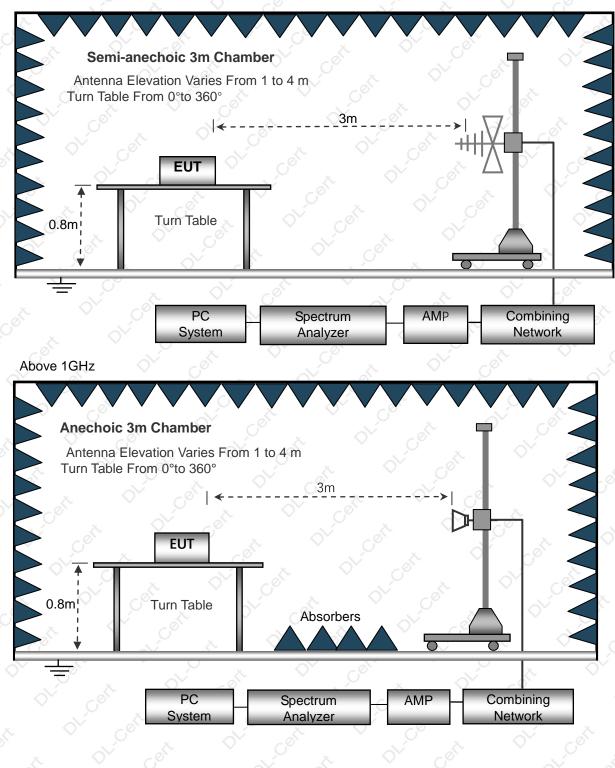
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|--------------------|-------------------|----------------|-----------------|-----------------|----------------|----------|-----|--------|
| 1 | 0.1680 | 19.54 | 10.15 | 29.69 | 65.06 | -35.37 | QP | Ρ | |
| 2 | 0.1680 | 1.07 | 10.15 | 11.22 | 55.06 | -43.84 | AVG | Ρ | |
| 3 * | 0.6045 | 21.45 | 10.17 | 31.62 | 56.00 | -24.38 | QP | Ρ | |
| 4 | 0.6045 | -0.47 | 10.17 | 9.70 | 46.00 | -36.30 | AVG | Ρ | |
| 5 | 1.5450 | 12.78 | 10.08 | 22.86 | 56.00 | -33.14 | QP | Ρ | |
| 6 | 1.5450 | -5.43 | 10.08 | 4.65 | 46.00 | -41.35 | AVG | Ρ | |
| 7 | 4.9515 | 16.95 | 10.31 | 27.26 | 56.00 | -28.74 | QP | Ρ | |
| 8 | 4.9515 | -0.38 | 10.31 | 9.93 | 46.00 | -36.07 | AVG | Ρ | |
| 9 | 18.1005 | 22.72 | 11.80 | 34.52 | 60.00 | -25.48 | QP | Ρ | |
| 10 | 18.1005 | 11.29 | 11.80 | 23.09 | 50.00 | -26.91 | AVG | Ρ | |
| 11 | 27.3210 | 18.12 | 12.85 | 30.97 | 60.00 | -29.03 | QP | Ρ | |
| 12 | 27.3210 | 2.04 | 12.85 | 14.89 | 50.00 | -35.11 | AVG | Ρ | |

Remark:Correct Factor = Cable lose + LISN insertion loss; Level = Reading + Correct factor;Margin = Level – Limit;



6. RADIATION EMISSION TEST

6.1 Block Diagram of Test Setup Below 1GHz



6.2 Test Standard and Limit FCC PART 15 B



Report No.: DL-240614010ER

| Frequency (MHz) | Distance (Meters) | Field Strengths Limits (dBµV/m) |
|--------------------|----------------------|------------------------------------|
| 30 ~ 88 | 3 | 40.0 |
| 88 ~ 216 | 3 | 43.5 |
| 216 ~ 960 | 3 | 46.0 |
| 960 ~ 1000 | 3 | 54.0 |

Above 1GHz

| Frequency MHz | Distance (Meters) | Field Strengths Limits dB(μV)/m | Detector |
|------------------|----------------------|------------------------------------|----------|
| 1000~6000 | x 3 0° | 74.0 | PEAK O |
| 1000~6000 | 3 | 54.0 | AVERAGE |

Remark:

(1) The smaller limit shall apply at the cross point between two frequency bands.

(2) Distance refers to the distance in meters between the measuring instrument, antenna and the closed point of any part of the device or system.

6.3 EUT Configuration on Test

The FCC PART 15 B regulations test method must be used to find the maximum emission during radiated emission test.

The configuration of EUT is the same as used in conducted emission test.

Please refer to Section 5.3.

6.4 Operating Condition of EUT

Same as conducted emission test, which is listed in Section 5.4 except the test set up replaced as Section 6.2.

6.5 Test Procedure

1) The radiated emissions test was conducted in a semi-anechoic chamber.

2) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.

3) Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT.

4) The frequencies of maximum emission were determined in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.

5) The bandwidth setting on the field strength meter (R&S Test Receiver ESCI) is set at 120KHz.

6) The frequency range from 30MHz to 1000MHz is checked.

6.6 Test Result

PASS

Please refer to the following page.

Test Report



| Shenzhen DL | Testing | Technology | Co., I | _td. |
|-------------|---------|------------|--------|------|
|-------------|---------|------------|--------|------|

Report No.: DL-240614010ER

| | R | adiation Er | nission Tes | t Data(Below | 1GHz) | | | | |
|---------------|---|--------------------|------------------|----------------------|---|---------|----------------------|-------------|-----|
| emperature: | 24.5 ℃ | | j. | Relative Humid | ity: | 54% | Ň | 1 and the | |
| Pressure: | 1009hPa | × . | , ^o | Polarization: | Horizontal | | | | |
| est Voltage: | AC 120V/60 |)Hz | CO' | Test Mode: | Mode 1 | | | | |
| 0 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | Å. | OF. | Celt | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | Å | <u> </u> | 0 | C |
| | | | | | | | | | |
| | | | | | | FCC Cla | ss B 3N | Radiated | |
| | | | | | | Margin- | 6 dB | | |
| | | | | _ _ | | | | | |
| | | | | | | | | | |
| | | | | | | X | S 1 | abudene May | www |
| Munder Towned | manus and the | | W. Mary | Autopen Angle With a | MA ^M VNAM | Window | ad the of the second | alerer | |
| | | mprovident and the | n olen onderster | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 30.000 | 60.00 | | (MH: | z) : | 300.00 | | | | 100 |

| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | |
|---------|----------|------------------|-------------------|------------------|-------|--------|----------|
| | MHz | dBuV | dB | dBuV | dB | dB | Detector |
| 1 | 41.5670 | 29.74 | -13.73 | 16.01 | 40.00 | -23.99 | QP |
| 2 | 71.5805 | 33.73 | -15.73 | 18.00 | 40.00 | -22.00 | QP |
| 3 | 143.8295 | 33.42 | -17.57 | 15.85 | 43.50 | -27.65 | QP |
| 4 | 243.3771 | 36.19 | -13.00 | 23.19 | 46.00 | -22.81 | QP |
| 5 | 422.0577 | 36.17 | -9.29 | 26.88 | 46.00 | -19.12 | QP |
| 6 * | 560.6928 | 33.79 | -6.68 | 27.11 | 46.00 | -18.89 | QP |

Remark:

Correct Factor=Cable loss+Antenna factor-Preamplifier MeasurementLevel= Reading Level + Correct Factor, Margin = Measurement Level- Limit.



| Shenzhen DL | Testing | Technology | Co., | Ltd. |
|-------------|---------|------------|------|------|
|-------------|---------|------------|------|------|

Report No.: DL-240614010ER

| | | | | | R | ladi | iatio | on En | nissic | on Tes | st Da | ata(Below | 1GHz) | | | | | | |
|---------------|---------|-----------|--------|--------------|----|------|-------|-------|--------|------------|-------|---|------------------------|-----------|----------|--------|---------|---------------|-----|
| Te | mperatu | re: | 24 | .5 ℃ | | | | V | Š | <u> </u> | Rela | tive Humid | ity: | 54% | Ň | | de la | | |
| Pre | essure: | | 10 | 09hF | Pa | | | | , C° | > | Pola | rization: | | Verti | cal | .0 | 1 | X | , |
| Test Voltage: | | | AC | AC 120V/60Hz | | | | | C° | Test Mode: | | | | ə 1 🔨 |)` | 0 | J | | |
| v 10.0 | dBuV | 2 | \sim | ~ | | | 2 | | 0 | / | Cor | | | à | <u> </u> | < | 2 | (| G |
| D | | | | | | | | | | | | | | | | | | | |
| I | | | | | | | | | | | | | | FCC Cla | ss B 31 | l Rad | iated | + | |
| I | | | | | | - | | | | | | | | Margin | 6-dB | | | \rightarrow | ╇ |
|) | | | | | | | | | | | | | | | | | | _ | 1 |
| I | 1 X | | | | 2 | | | | | 3 | | 4 Å | we wanted | 5 X | ماليده | 6 X | natural | wow | ملې |
| 1 | WWW | and an ad | Muhuk | hau | M | hu | | A MAR | WHAT | 1.14 | hild | AND | when the approximation | A BRANTIN | | | | | |

| 30.000 | | 60.00 | | (MHz) | | 300.00 | | | 1000.000 |
|-------------------|---------|----------|------------------|-------------------|------------------|--------|--------|----------|----------------|
| | | | | | | | | | |
| . ص | No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | - Jort |
| d ^v | | MHz | dBuV | dB | dBuV | dB | dB | Detector | \$ |
| Ċ | 1 * | 33.4449 | 40.68 | -15.28 | 25.40 | 40.00 | -14.60 | QP | O ^L |
| | 2 | 71.5806 | 38.57 | -15.73 | 22.84 | 40.00 | -17.16 | QP | |
| · · · | 3 | 157.0074 | 42.26 | -17.39 | 24.87 | 43.50 | -18.63 | QP | _ |
| Cor | 4 | 225.3080 | 37.10 | -13.72 | 23.38 | 46.00 | -22.62 | QP | |
| <i>i</i> [| 5 | 422.0577 | 35.89 | -9.29 | 26.60 | 46.00 | -19.40 | QP | Cor |
| 0 ¹ | 6 | 668.1423 | 32.49 | -4.59 | 27.90 | 46.00 | -18.10 | QP | ЃС |

Remark:

0

-10 -20

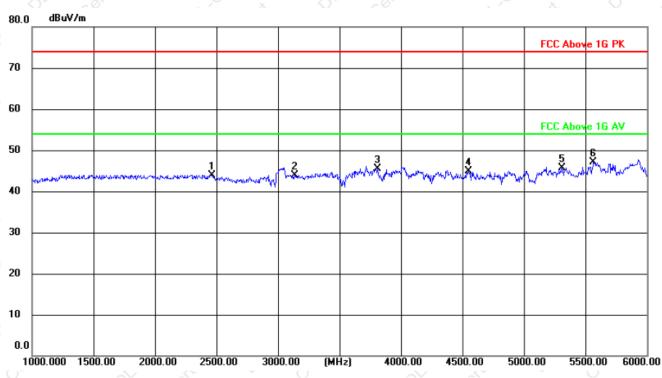
Correct Factor=Cable loss+Antenna factor-Preamplifier

MeasurementLevel= Reading Level + Correct Factor, Margin = Measurement Level- Limit.



Report No.: DL-240614010ER

| Radiation Emission Test Data(Above 1GHz) | | | | | | | | |
|--|--------------|--------------------|------------|--|--|--|--|--|
| Temperature: | 24.5℃ | Relative Humidity: | 54% | | | | | |
| Pressure: | 1009hPa | Polarization: | Horizontal | | | | | |
| Test Voltage: | AC 120V/60Hz | Test Mode: | Mode 1 | | | | | |



| | No. | Mł | k. Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|----|-----|----|----------|------------------|-------------------|------------------|-------|--------|----------|--------|
| 5 | | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | \sim |
| | 1 | | 2465.000 | 51.83 | -7.89 | 43.94 | 74.00 | -30.06 | peak | |
| Ó | 2 | | 3135.000 | 50.51 | -6.58 | 43.93 | 74.00 | -30.07 | peak | 5 |
| | 3 | | 3810.000 | 52.41 | -6.96 | 45.45 | 74.00 | -28.55 | peak | - |
| ×. | 4 | | 4550.000 | 51.24 | -6.28 | 44.96 | 74.00 | -29.04 | peak | 2 |
| | 5 | | 5310.000 | 51.08 | -5.32 | 45.76 | 74.00 | -28.24 | peak | |
| 2 | 6 | * | 5565.000 | 52.32 | -5.20 | 47.12 | 74.00 | -26.88 | peak | • |

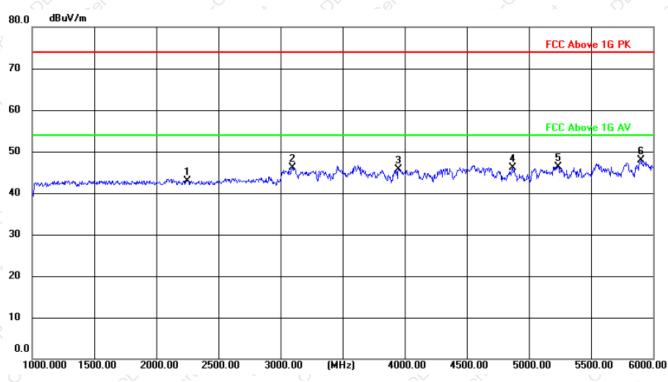
Remark:

Correct Factor=Cable loss+Antenna factor-Preamplifier MeasurementLevel= Reading Level + Correct Factor, Margin = Measurement Level- Limit.



Report No.: DL-240614010ER

| Radiation Emission Test Data(Above 1GHz) | | | | | | | | |
|--|--------------|--------------------|----------|--|--|--|--|--|
| Temperature: | 24.5℃ | Relative Humidity: | 54% | | | | | |
| Pressure: | 1009hPa | Polarization: | Vertical | | | | | |
| Test Voltage: | AC 120V/60Hz | Test Mode: | Mode 1 | | | | | |



| | No. | Mk | k. Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|---|-----|----|----------|------------------|-------------------|------------------|-------|--------|----------|-----|
| 5 | | | MHz | dBuV | dB | dBuV/m | dB/m | dB | Detector | |
| | 1 | | 2250.000 | 51.13 | -8.13 | 43.00 | 74.00 | -31.00 | peak | - |
| Q | 2 | | 3095.000 | 52.67 | -6.60 | 46.07 | 74.00 | -27.93 | peak | 5 |
| - | 3 | | 3950.000 | 52.95 | -7.20 | 45.75 | 74.00 | -28.25 | peak | - |
| | 4 | | 4870.000 | 51.80 | -5.75 | 46.05 | 74.00 | -27.95 | peak | - (|
| | 5 | | 5235.000 | 51.70 | -5.38 | 46.32 | 74.00 | -27.68 | peak | |
| (| 6 | * | 5900.000 | 53.15 | -5.31 | 47.84 | 74.00 | -26.16 | peak | - |

Remark:

Correct Factor=Cable loss+Antenna factor-Preamplifier MeasurementLevel= Reading Level + Correct Factor, Margin = Measurement Level- Limit.



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For Antenna ports conducted emission: TEST REQUIREMENT:FCC Part15 B Section 15.111

| Spectrum Spectrum Ref Level -10.00 dBm | 2 (X) | 2 | (` |
|--|-----------------------|------------------------------|---------------|
| Att 10 dB SWT | 37.9 µs 🖷 VBW 1.2 MHz | | |
|)1Pk Max | | M1[1] | -77.41 dBr |
| | | (int[1] | 1.2894 MH |
| 20 dBm | | | |
| D1 -27.000 dBm | | | |
| | | | |
| 40 dBm | | | |
| | | | |
| 50 dBm | | | |
| | | | |
| 60 dBm | | | |
| 70 dBm | | | |
| M1 | | | |
| | mound | Charmon and any and a second | monorto |
| | | | |
| 90 dBm | | | |
| 100 dBm | | | |
| | | | |
| Start 9.0 kHz | 69 | 1 pts | Stop 30.0 MHz |

30MHz-5GHz

| Keysight Sp | ectrum Analyzer - Swept SA RF 50 Ω AC | | SENSE:INT | ALIGN AUTO | 05:10:20 PM Jul 02, 2024 | |
|-------------|--|--------------------------------|---|---------------------------------------|---|--------------|
| | 3.419540000000 | PNO: Fast | Trig: Free Run Atten: 10 dB | Avg Type: Log-Pwr Avg Hold: 35/100 | TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNN | Peak Search |
| 10 dB/div | Ref 0.00 dBm | I Guineon | | Mkr | 1 3.419 54 GHz -76.638 dBm | Next Pea |
| -og | | | | | | Next Pk Righ |
| 30.0 | | | | | -27.00 dBm | Next Pk Le |
| 40.0 | | | | | | Marker Del |
| 70.0 | | | | | | Mkr→C |
| 80.0 | uden yy uden fraidd ^{ann d} | Applocation Acale and a second | and he wall have a start of the second se | ravanarin addantaran 1 | appy to go and an and the stand and the | Mkr→RefL |
| itart 0.03 | 80 GHz 120 kHz | #VBW | 1.2 MHz | Sweep 3 | Stop 5.000 GHz 18.6 ms (1001 pts) | Moi 1 of |
| SG | | | | STATUS | 3 | |



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7. SETUP PHOTOGRAPHS

Reference to the appendix I for details.

8. EUT PHOTOGRAPHS

Reference to the appendix II for details.

******* END OF REPORT ******