

# **EMC TEST REPORT**

Product Name: DTEN D7X 75"

Model Name: DBR1475, DBR1475-S1

FCC ID: 2AQ7Q-DBR1475

Issued For : DTEN Inc

97 E Brokaw Road suite 180 San Jose CA 95112

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No.177 Renmin West Road, Jinsha Community, Kengzi Street,

Pingshan New District, Shenzhen, China

Report Number: LGT22L023EM03

Sample Received Date: Sep. 28, 2022

Date of Test: Sep. 28, 2022 – Feb. 15, 2023

Date of Issue: Feb. 15, 2023

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# **TEST REPORT CERTIFICATION**

Applicant DTEN Inc

Address 97 E Brokaw Road suite 180 San Jose CA 95112

Manufacture DTEN Inc

Address 97 E Brokaw Road suite 180 San Jose CA 95112

Product Name DTEN D7X 75"

Trademark DTEN

Model Name DBR1475, DBR1475-S1

Sample Status: Normal

| APPLICABLE STANDARDS                            |      |  |  |
|---|------|--|--|
| STANDARD TEST RESULTS                           |      |  |  |
| FCC 47 CFR Part 15 Subpart B<br>ANSI C63.4-2014 | PASS |  |  |

Prepared by:

Terry Zhao

Engineer

Approved by

Vita Li

**Technical Director** 





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# **Revision History**

| Rev. | Issue Date    | Revisions     |
|------|---------------|---------------|
| 00   | Feb. 15, 2023 | Initial Issue |
|      |               |               |



| EMC Emission                                    |                                  |         |      |                  |  |
|---|----------------------------------|---------|------|------------------|--|
| Standard Test Item Limit Judgement Remark       |                                  |         |      |                  |  |
| FCC 47 CFR Part 15 Subpart B<br>ANSI C63.4-2014 | Conducted Emissions              | Class B | PASS |                  |  |
|   | Radiated Emissions<br>Below 1GHz | Class B | PASS |                  |  |
|   | Radiated Emissions<br>Above 1GHz | Class B | PASS | Note 1<br>Note 2 |  |

#### Note:

- 1 "N/A" denotes test is not applicable in this Test Report
- 2 If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.
- 3 For model DBR1475 and DBR1475-S1, the TP control board have two types of A and B, this do not affect RF parameters. DBR1475 with type A was selected as the typical model for all necessary tests performed, DBR1475 with type B only performed RE. For the details of type A&B, please refer to the EUT photos.

| Company Name:             | Shenzhen LGT Test Service Co., Ltd.   |  |
|---------------------------|---|--|
| Address:                  | Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No.177<br>Renmin West Road, Jinsha Community, Kengzi Street, Pingshan New<br>District, Shenzhen, China |  |
|                           | A2LA Certificate No.: 6727.01   |  |
| Accreditation Certificate | FCC Registration No.: 746540  |  |
|                           | CAB ID: CN0136  |  |

### **1.2 MEASUREMENT UNCERTAINTY**

| Test Item                                  | Measurement Frequency Range<br>MHz | Uncertainty<br>dB |
|--|------------------------------------|-------------------|
| Conducted Emissions at AC mains power port | 0.009 ~ 30                         | 2.80              |
| Radiated Emissions                         | 0.009 ~ 30                         | 2.16              |
| Radiated Emissions                         | 30 ~ 1000                          | 4.40              |
| Radiated Emissions                         | 1000 ~ 6000                        | 5.10              |
| Radiated Emissions                         | 6000 ~ 18000                       | 5.49              |

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

### 2.1 GENERAL DESCRIPTION OF THE EUT

| Product Name     | DTEN D7X 75"   |
|------------------|--|
| Trademark        | DTEN   |
| Model Name       | DBR1475  |
| Series Model     | DBR1475-S1   |
| Model Difference | Only the model name and shipping packaging method are different. |
| Rated Input      | Input: AC 100-240V~ 50/60Hz 4.0A                                 |
| Test voltage     | AC 120V/60Hz   |
| Hardware Version | RK3588.6 Ver:1.3   |
| Software Version | 0.6.4  |

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



### 2.2 DESCRIPTION OF THE 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 possibly have effect on EMI emission level. Each of these EUT operating mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Test Mode | Description  |
|-----------|--|
| Mode 1    | HDMI OUT+USB+LAN+Thunderbolt+Headset+HDMI IN+ 2.4GHz Wi-Fi operating |
| Mode 2    | HDMI OUT+USB+LAN+Thunderbolt+Headset+HDMI IN+ 5GHz Wi-Fi operating   |
| Mode 3    | HDMI OUT+USB+LAN +Camera+Headset+6GHz Wi-Fi operating                |

Note: Only the data of worst-case mode 1 was recorded in this report.

### 2.3 DESCRIPTION OF THE 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.

Accessories Equipment

| Description      | Manufacturer          | Model | S/N | Rating         |
|------------------|-----------------------|-------|-----|----------------|
| USB C-to-C cable | DTEN                  | N/A   | N/A | 1.9m, shielded |
| stylus           | DTEN                  | N/A   | N/A | N/A            |
| Power cord       | XIEKANG<br>ELECTRONIC | N/A   | N/A | 3m, US plug    |
| Camera           | DTEN                  | N/A   | N/A | 2pcs           |

**Auxiliary Equipment** 

| , tel, tiller j = qelip i i i e i | textinally Edulation |               |     |                |  |  |
|-----------------------------------|----------------------|---------------|-----|----------------|--|--|
| Description                       | Manufacturer         | rer Model S/N |     | Rating         |  |  |
| Keyboard                          | Lenovo               | EKB-536A      | N/A | N/A            |  |  |
| Mouse                             | Lenovo               | EMS-537A      | N/A | N/A            |  |  |
| USB Flash disk                    | Hewlett-Packard      | V206          | N/A | 2pcs           |  |  |
| Laptop                            | HUAWEI               | HKF-16        | N/A | N/A            |  |  |
| HDMI cable                        | GIMI                 | E81280-D      | N/A | 1.8m, shielded |  |  |
| HDMI cable                        | SONY                 | N/A           | N/A | 1.1m, shielded |  |  |
| Monitor                           | HKC                  | T275IU        | N/A | N/A            |  |  |
| Earphone                          | N/A                  | 39630078      | N/A | N/A            |  |  |
| RJ45 cable                        | N/A                  | N/A           | N/A | 1m, unshielded |  |  |
| Router                            | CHINA<br>TELECOM     | WTA541        | N/A | N/A            |  |  |

#### Note:

(1) For detachable type I/O cable should be specified the length in cm in Length column.



2.5 MEASUREMENT INSTRUMENTS LIST

Report No.: LGT22L023EM03

| Conducted Emission           |                                      |                     |               |            |            |  |
|------------------------------|--------------------------------------|---------------------|---------------|------------|------------|--|
| Equipment                    | Manufacturer                         | Model No.           | Serial No.    | Cal. Date  | Cal. Until |  |
| EMI Test Receiver            | R&S                                  | ESU8                | 100372        | 2022.04.12 | 2023.04.11 |  |
| LISN                         | COM-POWER                            | LI-115              | 02032         | 2022.04.13 | 2023.04.12 |  |
| LISN                         | SCHWARZBECK                          | NNLK 8121           | 00847         | 2022.08.19 | 2023.08.18 |  |
| CE Cable                     | N.A                                  | C01                 | N.A           | 2022.05.05 | 2023.05.04 |  |
| Transient Limiter            | CYBERTEK                             | EM5010A             | E2250100049   | 2022.08.19 | 2023.08.18 |  |
| Temperature & Humidity       | KTJ                                  | TA218B              | N.A           | 2022.05.05 | 2023.05.04 |  |
| Testing Software             |                                      | EMC-I_              | V1.4.0.3_SKET |            |            |  |
| Radiated Emission            |                                      |                     |               |            |            |  |
| Equipment                    | Manufacturer                         | Model No.           | Serial No.    | Cal. Date  | Cal. Until |  |
| <b>EMI Test Receiver</b>     | R&S                                  | ESU8                | 100372        | 2022.04.12 | 2023.04.11 |  |
| Spectrum Analyzer            | Keysight                             | N9020A              | MY50530994    | 2022.12.09 | 2023.12.08 |  |
| Spectrum Analyzer            | Keysight                             | N9010B              | MY60242508    | 2022.04.29 | 2023.04.28 |  |
| Active loop Antenna          | R&S                                  | HFH2-Z2             | POS871398181  | 2022.06.02 | 2024.06.01 |  |
| Bilog Antenna                | SCHAFFNER                            | CBL6112B            | 2705          | 2022.06.05 | 2024.06.04 |  |
| Bilog Antenna                | SCHWARZBECK                          | VULB 9168           | 01447         | 2022.12.12 | 2023.12.11 |  |
| Horn Antenna                 | SCHWARZBECK                          | 3115                | 10SL0060      | 2022.06.02 | 2024.06.01 |  |
| Pre-amplifier(0.1M-<br>3GHz) | HP                                   | 8447D               | 2727A05655    | 2022.04.11 | 2023.04.10 |  |
| Pre-amplifier(1-<br>26.5G)   | Agilent                              | 8449B               | 3008A4722     | 2022.04.13 | 2023.04.12 |  |
| RE Cable (9K-1G)             | N.A                                  | R01                 | N.A           | 2022.05.05 | 2023.05.04 |  |
| RE Cable (1-26G)             | N.A                                  | R02                 | N.A           | 2022.05.05 | 2023.05.04 |  |
| Temperature &<br>Humidity    | KTJ TA218B N.A 2022.05.05 2023.05.04 |                     |               |            |            |  |
| Testing Software             |                                      | EMC-I_V1.4.0.3_SKET |               |            |            |  |



### 3. EMC EMISSION TEST

### 3.1 CONDUCTED EMISSION MEASUREMENT

#### **3.1.1 LIMITS**

|                 | Conducted Emission Limits (dBuV) |         |            |           |  |
|-----------------|----------------------------------|---------|------------|-----------|--|
| FREQUENCY (MHz) | Class A                          |         | Class B    |           |  |
|                 | Quasi-peak                       | Average | Quasi-peak | Average   |  |
| 0.15 ~ 0.5      | 79.00                            | 66.00   | 66 - 56 *  | 56 - 46 * |  |
| 0.5 ~ 5         | 73.00                            | 60.00   | 56.00      | 46.00     |  |
| 5 ~ 30          | 73.00                            | 60.00   | 60.00      | 50.00     |  |

#### 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 Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

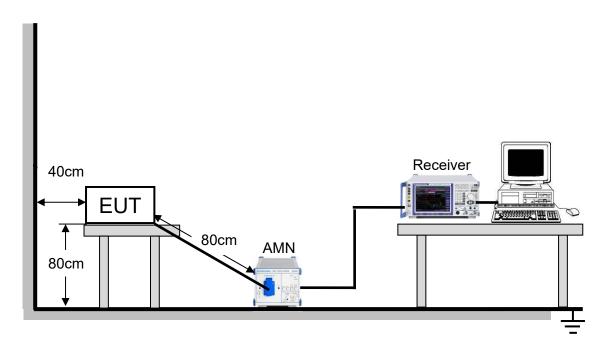
| Receiver Parameters | Setting  |  |  |
|---------------------|----------|--|--|
| Attenuation         | 10 dB    |  |  |
| Start Frequency     | 0.15 MHz |  |  |
| Stop Frequency      | 30 MHz   |  |  |
| IF Bandwidth        | 9 kHz    |  |  |

#### 3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs 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.



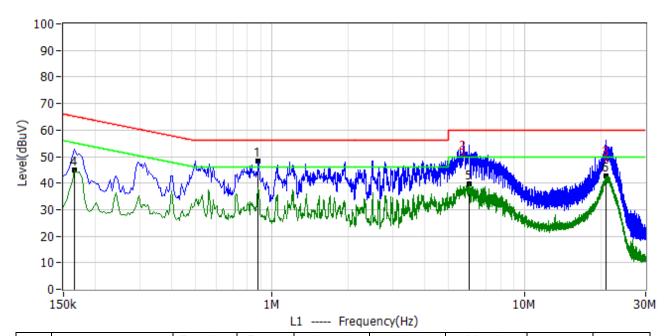
### 3.1.3 TEST SETUP





### 3.1.4 TEST RESULTS

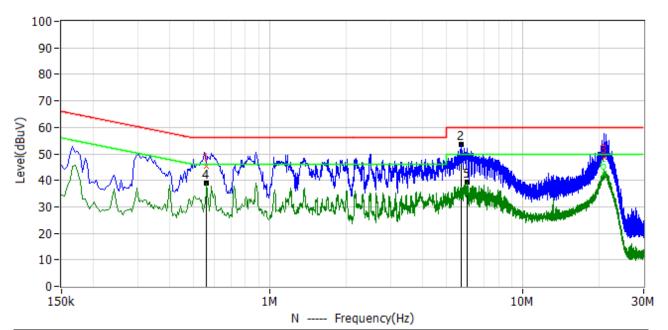
| Project: LGT22L023                        | Test Engineer: Dylan.shi               |
|---|--|
| EUT: DTEN D7X 75"                         | Temperature: 17.2°C                    |
| M/N: DBR1475                              | Humidity: 55%RH                        |
| Test Voltage: AC 120V/60Hz                | Test Data: 2023-01-03                  |
| Test Mode: HDMI OUT+USB+LAN+Thunderbolt+H | eadset+HDMI IN+ 2.4GHz Wi-Fi operating |
| Note: TP control board Type A             |  |



Reading Limit Factor Level Margin Detector Polar No. Frequency dBuVdΒ dBuV dBuV dΒ 882.000kHz PΚ 1\* 37.73 10.52 48.25 56.00 -7.75 L1 2 5.706MHz 40.07 10.80 60.00 -9.13 QP L1 50.87 3 20.882MHz 37.59 11.10 48.69 60.00 -11.31 QΡ L1 4\* 166.000kHz 34.26 10.50 44.76 55.16 -10.39 ΑV L1 5\* 6.002MHz 29.01 10.85 39.86 50.00 -10.14 ΑV L1 11.11 -7.18 21.002MHz 31.71 42.82 50.00 ΑV 6\* L1



| Project: LGT22L023                       | Test Engineer: Dylan.shi                |
|--|---|
| EUT: DTEN D7X 75"                        | Temperature: 17.2°C                     |
| M/N: DBR1475                             | Humidity: 55%RH                         |
| Test Voltage: AC 120V/60Hz               | Test Data: 2023-01-03                   |
| Test Mode: HDMI OUT+USB+LAN+Thunderbolt- | Headset+HDMI IN+ 2.4GHz Wi-Fi operating |
| Note: TP control board Type A            |   |



Reading Factor Level Limit Margin Polar Frequency Detector No. dBuV dΒ dBuV dΒ  $\mathsf{dBuV}$ 1 558.000kHz QP 34.91 10.50 45.41 56.00 -10.59 Ν 2\* 5.714MHz 42.57 10.84 53.41 60.00 -6.59 PΚ Ν 3 20.990MHz 37.64 48.74 -11.26 QΡ 11.10 60.00 Ν 562.000kHz 4\* 28.37 10.51 38.88 46.00 -7.12 AVΝ 5\* 6.006MHz 28.42 10.85 39.27 50.00 -10.73 ΑV Ν 42.42 -7.58 6 20.938MHz 31.32 11.10 50.00 ΑV Ν



### 3.2 RADIATED EMISSION MEASUREMENT

### **3.2.1 LIMITS**

### **Below 1 GHz**

| Frequency | Class A          | Class B          |
|-----------|------------------|------------------|
| (MHz)     | Field strength   | Field strength   |
| (1711 12) | (dBuV/m) (at 3m) | (dBuV/m) (at 3m) |
| 30 - 88   | 49.5             | 40               |
| 88 - 216  | 53.9             | 43.5             |
| 216 - 960 | 56.9             | 46               |
| Above 960 | 60               | 54               |

#### **Above 1 GHz**

|                    | Clas         | ss A                            | Class B |                                    |  |  |
|--------------------|--------------|---------------------------------|---------|------------------------------------|--|--|
| Frequency<br>(MHz) |              | Field strength (dBuV/m) (at 3m) |         | Field strength<br>(dBuV/m) (at 3m) |  |  |
|                    | Peak Average |                                 | Peak    | Average                            |  |  |
| Above 1000         | 80           | 60                              | 74      | 54                                 |  |  |

### **Frequency Range of Radiated Disturbance Measurement**

| Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz) | Range (MHz)   |
|---|---|
| Below 1.705   | 30  |
| 1.705 - 108   | 1000  |
| 108 - 500   | 2000  |
| 500 - 1000  | 5000  |
| Above 1000  | 5th harmonic of the highest frequency or 40 GHz, whichever is lower |

### Note:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart B;
- (2) The tighter limit applies at the band edges;
- (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.

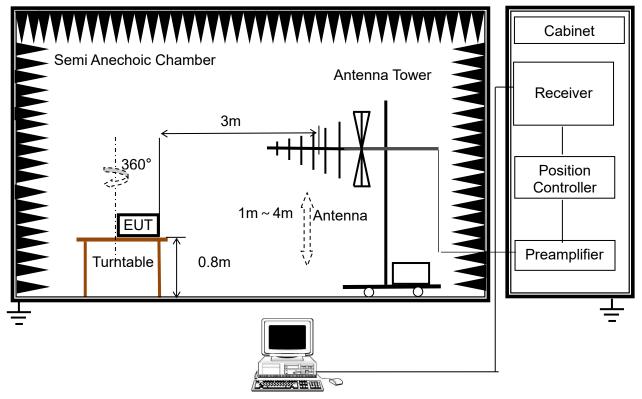
### 3.2.2 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. EUT as the center to the edge of the auxiliary device, the distance from the maximum edge to the center of the antenna is 3 meter.
- c. The height of antenna is varied from 1 meter to 4 meter above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meter and the rotatable table was turned from 0 degrees to 360 degree to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

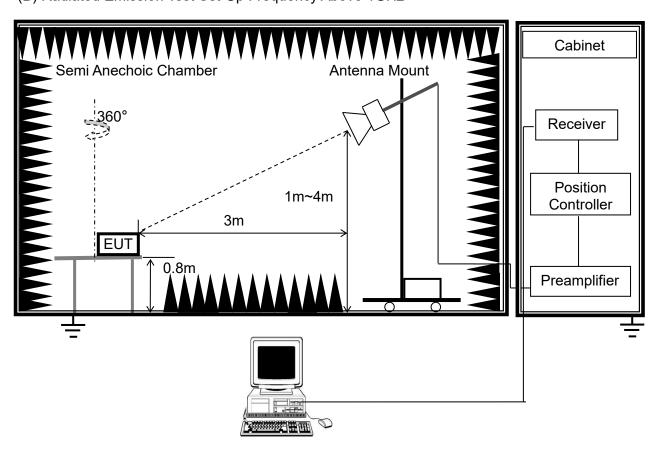


### 3.2.3 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz

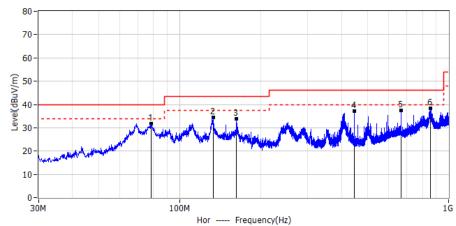




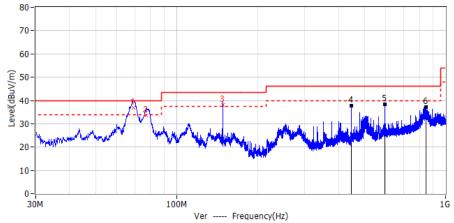


### 3.2.4 TEST RESULTS - BELOW 1GHZ

| Project: LGT22L023                        | Test Engineer: Dylan.shi               |
|---|--|
| EUT: DTEN D7X 75"                         | Temperature: 21.5°C                    |
| M/N: DBR1475                              | Humidity: 48%RH                        |
| Test Voltage: AC 120V/60Hz                | Test Data: 2023-02-11                  |
| Test Mode: HDMI OUT+USB+LAN+Thunderbolt+H | eadset+HDMI IN+ 2.4GHz Wi-Fi operating |
| Note: TP control board Type A             |  |



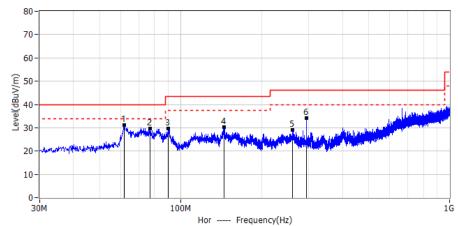
| No.  | Frequency  | Reading | Factor | Level  | Limit  | Margin | Detector | Polar |
|------|------------|---------|--------|--------|--------|--------|----------|-------|
| INO. | rrequericy | dBuV    | dB/m   | dBuV/m | dBuV/m | dB     | Detector | Folai |
| 1*   | 78.258MHz  | 21.77   | 9.88   | 31.65  | 40.00  | -8.35  | PK       | Hor   |
| 2*   | 133.184MHz | 21.26   | 13.07  | 34.33  | 43.50  | -9.17  | PK       | Hor   |
| 3*   | 163.133MHz | 19.81   | 14.12  | 33.93  | 43.50  | -9.57  | PK       | Hor   |
| 4*   | 445.524MHz | 18.92   | 18.37  | 37.29  | 46.00  | -8.71  | PK       | Hor   |
| 5*   | 666.563MHz | 14.18   | 23.14  | 37.32  | 46.00  | -8.68  | PK       | Hor   |
| 6*   | 855.349MHz | 12.27   | 26.17  | 38.44  | 46.00  | -7.56  | PK       | Hor   |



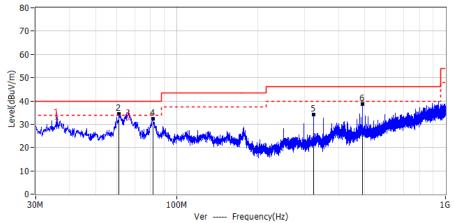
| No.  | Frequency  | Reading | Factor | Level  | Limit  | Margin | Detector | Polar  |
|------|------------|---------|--------|--------|--------|--------|----------|--------|
| 110. | rroquoriey | dBuV    | dB/m   | dBuV/m | dBuV/m | dB     | Dotootoi | 1 Oldi |
| 1    | 69.421MHz  | 25.38   | 11.60  | 36.98  | 40.00  | -3.02  | QP       | Ver    |
| 2    | 77.258MHz  | 23.37   | 10.10  | 33.47  | 40.00  | -6.53  | QP       | Ver    |
| 3    | 148.488MHz | 24.04   | 14.10  | 38.14  | 43.50  | -5.36  | QP       | Ver    |
| 4*   | 445.524MHz | 19.34   | 18.37  | 37.71  | 46.00  | -8.29  | PK       | Ver    |
| 5*   | 594.055MHz | 16.22   | 21.99  | 38.21  | 46.00  | -7.79  | PK       | Ver    |
| 6*   | 848.195MHz | 11.06   | 26.10  | 37.16  | 46.00  | -8.84  | PK       | Ver    |



| Project: LGT22L023                       | Test Engineer: Dylan.shi                |
|--|---|
| EUT: DTEN D7X 75"                        | Temperature: 21.5°C                     |
| M/N: DBR1475                             | Humidity: 48%RH                         |
| Test Voltage: AC 120V/60Hz               | Test Data: 2023-02-11                   |
| Test Mode: HDMI OUT+USB+LAN+Thunderbolt+ | Headset+HDMI IN+ 2.4GHz Wi-Fi operating |
| Note: TP control board Type B            |   |



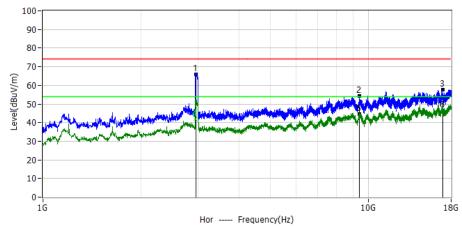
| No. | Frequency  | Reading<br>dBuV | Factor<br>dB/m | Level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Polar |
|-----|------------|-----------------|----------------|-----------------|-----------------|--------------|----------|-------|
| 1*  | 61.768MHz  | 12.54           | 18.53          | 31.07           | 40.00           | -8.93        | PK       | Hor   |
| 2*  | 77.166MHz  | 13.70           | 16.00          | 29.70           | 40.00           | -10.30       | PK       | Hor   |
| 3*  | 90.261MHz  | 14.53           | 15.07          | 29.60           | 43.50           | -13.90       | PK       | Hor   |
| 4*  | 145.309MHz | 10.70           | 19.55          | 30.25           | 43.50           | -13.25       | PK       | Hor   |
| 5*  | 261.345MHz | 10.43           | 18.77          | 29.20           | 46.00           | -16.80       | PK       | Hor   |
| 6*  | 293.355MHz | 14.27           | 19.78          | 34.05           | 46.00           | -11.95       | PK       | Hor   |



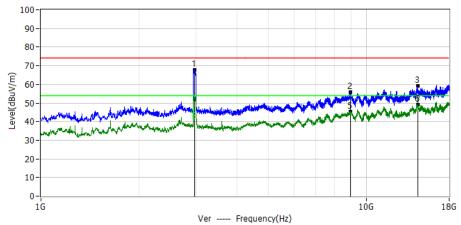
| No. | Frequency  | Reading<br>dBuV | Factor<br>dB/m | Level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Polar |
|-----|------------|-----------------|----------------|-----------------|-----------------|--------------|----------|-------|
| 1   | 35.989MHz  | 13.84           | 18.70          | 32.54           | 40.00           | -7.46        | QP       | Ver   |
| 2*  | 61.040MHz  | 15.92           | 18.58          | 34.50           | 40.00           | -5.50        | PK       | Ver   |
| 3   | 66.527MHz  | 14.15           | 18.20          | 32.35           | 40.00           | -7.65        | QP       | Ver   |
| 4*  | 81.774MHz  | 17.16           | 15.18          | 32.34           | 40.00           | -7.66        | PK       | Ver   |
| 5*  | 324.031MHz | 13.54           | 20.67          | 34.21           | 46.00           | -11.79       | PK       | Ver   |
| 6*  | 491.963MHz | 13.90           | 24.73          | 38.63           | 46.00           | -7.37        | PK       | Ver   |



| Project: LGT22L023  | Test Engineer: Dylan.shi |  |  |  |  |  |
|---|--------------------------|--|--|--|--|--|
| EUT: DTEN D7X 75"   | Temperature: 21.5°C      |  |  |  |  |  |
| M/N: DBR1475  | Humidity: 48%RH          |  |  |  |  |  |
| Test Voltage: AC 120V/60Hz  | Test Data: 2023-02-11    |  |  |  |  |  |
| Test Mode: HDMI OUT+USB+LAN+Thunderbolt+Headset+HDMI IN+ 2.4GHz Wi-Fi operating |                          |  |  |  |  |  |
| Note: TP control board Type A   |                          |  |  |  |  |  |



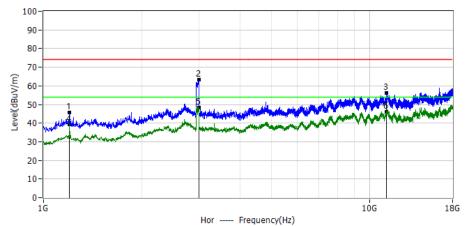
| No. | Frequency | Reading<br>dBuV | Factor<br>dB/m | Level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Polar |
|-----|-----------|-----------------|----------------|-----------------|-----------------|--------------|----------|-------|
| 1*  | 2.953GHz  | 74.39           | -8.59          | 65.80           | 74.00           | -8.20        | PK       | Hor   |
| 2*  | 9.407GHz  | 55.60           | -1.17          | 54.43           | 74.00           | -19.57       | PK       | Hor   |
| 3*  | 16.991GHz | 49.97           | 7.81           | 57.78           | 74.00           | -16.22       | PK       | Hor   |
| 4   | 2.941GHz  | 50.64           | -8.70          | 41.94           | 54.00           | -12.06       | AV       | Hor   |
| 5*  | 9.407GHz  | 45.67           | -1.17          | 44.50           | 54.00           | -9.50        | AV       | Hor   |
| 6*  | 16.991GHz | 38.59           | 7.81           | 46.40           | 54.00           | -7.60        | AV       | Hor   |



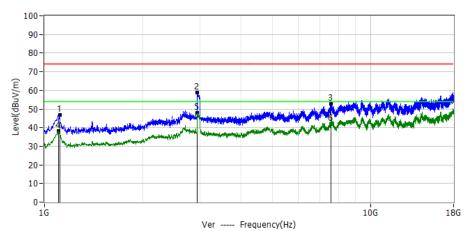
|                   |           |         |        | voi iroquene | 7(112) |          |          |       |
|-------------------|-----------|---------|--------|--------------|--------|----------|----------|-------|
| No.               | Frequency | Reading | Factor | Level        | Limit  | Margin   | Detector | Polar |
| Tivo.   Trequency | dBuV      | dB/m    | dBuV/m | dBuV/m       | dB     | Detector | i Olai   |       |
| 1*                | 2.972GHz  | 76.10   | -8.49  | 67.61        | 74.00  | -6.39    | PK       | Ver   |
| 2*                | 8.933GHz  | 57.16   | -1.36  | 55.80        | 74.00  | -18.20   | PK       | Ver   |
| 3*                | 14.400GHz | 53.32   | 5.91   | 59.23        | 74.00  | -14.77   | PK       | Ver   |
| 4                 | 2.946GHz  | 50.97   | -8.60  | 42.37        | 54.00  | -11.63   | AV       | Ver   |
| 5*                | 8.933GHz  | 46.66   | -1.36  | 45.30        | 54.00  | -8.70    | AV       | Ver   |
| 6*                | 14.400GHz | 42.99   | 5.91   | 48.90        | 54.00  | -5.10    | AV       | Ver   |



| Project: LGT22L023  | Test Engineer: Dylan.shi |  |  |  |  |  |
|---|--------------------------|--|--|--|--|--|
| EUT: DTEN D7X 75"   | Temperature: 21.5°C      |  |  |  |  |  |
| M/N: DBR1475  | Humidity: 48%RH          |  |  |  |  |  |
| Test Voltage: AC 120V/60Hz  | Test Data: 2023-02-11    |  |  |  |  |  |
| Test Mode: HDMI OUT+USB+LAN+Thunderbolt+Headset+HDMI IN+ 2.4GHz Wi-Fi operating |                          |  |  |  |  |  |
| Note: TP control board Type B   |                          |  |  |  |  |  |



| No. | Frequency | Reading<br>dBuV | Factor<br>dB/m | Level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Polar |
|-----|-----------|-----------------|----------------|-----------------|-----------------|--------------|----------|-------|
| 1*  | 1.200GHz  | 68.80           | -22.97         | 45.83           | 74.00           | -28.17       | PK       | Hor   |
| 2*  | 3.000GHz  | 71.68           | -8.34          | 63.34           | 74.00           | -10.66       | PK       | Hor   |
| 3*  | 11.272GHz | 54.48           | 1.79           | 56.27           | 74.00           | -17.73       | PK       | Hor   |
| 4*  | 1.202GHz  | 62.43           | -22.95         | 39.48           | 54.00           | -14.52       | AV       | Hor   |
| 5*  | 3.002GHz  | 56.78           | -8.34          | 48.44           | 54.00           | -5.56        | AV       | Hor   |
| 6*  | 11.272GHz | 44.21           | 1.79           | 46.00           | 54.00           | -8.00        | AV       | Hor   |



| No. | Frequency | Reading<br>dBuV | Factor<br>dB/m | Level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Polar |
|-----|-----------|-----------------|----------------|-----------------|-----------------|--------------|----------|-------|
| 1*  | 1.113GHz  | 70.46           | -23.75         | 46.71           | 74.00           | -27.29       | PK       | Ver   |
| 2*  | 2.942GHz  | 67.31           | -8.65          | 58.66           | 74.00           | -15.34       | PK       | Ver   |
| 3*  | 7.573GHz  | 56.89           | -4.25          | 52.64           | 74.00           | -21.36       | PK       | Ver   |
| 4*  | 1.102GHz  | 61.86           | -23.84         | 38.02           | 54.00           | -15.98       | AV       | Ver   |
| 5*  | 2.944GHz  | 56.43           | -8.63          | 47.80           | 54.00           | -6.20        | AV       | Ver   |
| 6*  | 7.573GHz  | 46.15           | -4.25          | 41.90           | 54.00           | -12.10       | AV       | Ver   |





### **APPENDIX I - TEST SETUP**

# **Conducted Emission Test Setup Photo**



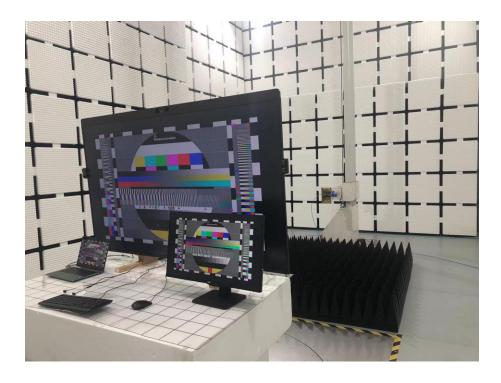
Radiated Emission Test Setup Photo - Below 1GHz







# Radiated Emission Test Setup Photo - Above 1GHz



\* \* \* \* END OF THE REPORT \* \* \* \* \*