EMC TEST REPORT

For

BT TECHNOLOGY (HK) LIMITED

FIBER LASER MACHINE

Test Model: ILT-180VF/BC

Additional Model No.: See Model List

Prepared for : BT TECHNOLOGY (HK) LIMITED

Address : RM 1101, 11/F SAN TOI BUILDING NO.139 CONNAUGHT

RD CENTRAL HONG KONG

Prepared by : Shenzhen AOCE Electronic Technology Service Co., Ltd Address : Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu

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Date of receipt of test sample : June 13, 2025

Number of tested samples :

Serial number : Prototype

Date of Test : June 13, 2025~June 26, 2025

Date of Report : June 26, 2025

| EMC TEST REPORT | |
|---|---|
| EN IEC 61000-6-4:2019 & EN IEC 61000-6-2:2019 |) |

Report Reference No.: AOC250626101E

Date Of Issue.....: June 26, 2025

Testing Laboratory Name.....: Shenzhen AOCE Electronic Technology Service Co., Ltd

Address.....: Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu

Industrial Park, Fuhai Street, Baoan District, Shenzhen,

Guangdong, China

Testing Location/ Procedure......: Full application of Harmonised standards ■

Partial application of Harmonised standards □

Other standard testing method□

Applicant's Name.....: BT TECHNOLOGY (HK) LIMITED

Address.....: RM 1101, 11/F SAN TOI BUILDING NO.139 CONNAUGHT

RD CENTRAL HONG KONG

Test Specification

Standard : EN IEC 61000-6-2:2019

EN IEC 61000-6-4:2019

EN IEC 61000-3-2:2019+A1:2021+A2:2024

EN 61000-3-3:2013+A1:2019+A2:2021+AC:2022

Test Report Form No. AOCEMC-1.0

TRF Originator.....: Shenzhen AOCE Electronic Technology Service Co., Ltd

Master TRF.....: Dated 2017-09

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Test Item Description.....: FIBER LASER MACHINE

Trade Mark....: INTERLASER

Test Model...: ILT-180VF/BC

Ratings....: 380V, 50Hz, 30KW

Result: Positive

Compiled by: Supervised by: Approved by:

Johnson, wary Joey Lin

Johnson Wang/ Administrators Joey Liu/ Technique principal Murry Yu/ Manager

Model List

| ITT-200 | ITT-300 | ITT-500 | IMK20 | IMK30 |
|---------------|---------------|----------------|----------------|-----------------|
| | | | | |
| IMK50 | IMK60 | IT-200 | IT-300 | IT-500 |
| DM30 | DM60 | IMZF20B | IMZF30B | IMZF20C |
| IMZF30C | IMZF20D | IMZF30D | IMZF20E | IMZF30E |
| IMZF20N | IMZF30N | LT200 | LT300 | LT500 |
| LG300 | LG600 | LG1000 | ITT-U3 | ITT-U5 |
| ITT-U10 | IT-U3 | IT-U5 | IT-U10 | LUV300 |
| LUV500 | LUV1000 | ILT-550H | ILT-550HSC | ILT-650H |
| ILT-850H | ILT-360M | ILT-280M | ILT-260M | ILT-6026FT |
| ILT-9028FT | ILT-12036FT | ILT-550FH | ILT-550SC | ILT-650FH |
| ILT-850FH | ILT-120VF/BC | ILT-120VFH/BC | ILT-180VF/BC | ILT-120VF |
| ILT-120VFH | ILT-180VF | ILT-6018G | ILT-6026G | ILT-9028G |
| ILT-12036G | ILT-6012E | ILT-6026E | ILT-9028E | ILT-12036E |
| ILT-6012D | ILT-6018D | ILT-6023D | ILT-6012A | ILT-6012AB |
| ILT-12020GCM | ILT-12030GCM | ILT-12035GCM | ILS-3015 | ILS-4020 |
| ILS-6025 | ILS-12025 | ILS-3015DP | ILS-4020DP | ILS-6025DP |
| ILS-12030DP | ILS-12025LR | ILS-14025LR | ILS-24030LR | ILS-3015ST/12 |
| ILS-4020ST/18 | ILS-6025ST/26 | ILS-4020DTP/12 | ILS-6025DTP/26 | ILS-12025DTP/28 |

EMC -- TEST REPORT

Test Report No. : AOC250626101E

June 26, 2025

Date of issue

Test Model..... : ILT-180VF/BC EUT..... : FIBER LASER MACHINE Applicant..... : BT TECHNOLOGY (HK) LIMITED : RM 1101, 11/F SAN TOI BUILDING NO.139 CONNAUGHT Address..... RD CENTRAL HONG KONG : / Telephone..... Fax.... : / Manufacturer..... : BT TECHNOLOGY (HK) LIMITED Address..... : RM 1101, 11/F SAN TOI BUILDING NO.139 CONNAUGHT RD CENTRAL HONG KONG Telephone..... : / : / Fax Factory..... : BT TECHNOLOGY (HK) LIMITED Address..... : RM 1101, 11/F SAN TOI BUILDING NO.139 CONNAUGHT RD CENTRAL HONG KONG Telephone..... : / Fax....

| Test Result | Positive |
|-------------|----------|
| | |

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. GENERAL INFORMATION

1.1. Product Description for Equipment Under Test (EUT)

EUT : FIBER LASER MACHINE

Test Model : ILT-180VF/BC

Model No. List : See Model List

• The internal structure of the product is the same, only the size and color are different. Model No. difference

Power Supply : 380V, 50Hz, 30KW

Hardware Version

Software Version : /

1.3. Related Submittal(s)/Grant(s)

No Related Submittals.

1.4. Test Methodology

All measurements contained in this report were conducted with EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019, EN IEC 61000-3-2:2019+A1:2021+A2:2024 and EN 61000-3-3:2013+A1:2019+A2:2021+AC:2022.

1.6. Support Equipment List

| Manufacturer | Description | Model | Serial Number | Certificate |
|--------------|-------------|-------|---------------|-------------|
| | - | | | |

1.7. External I/O

| I/O Port Description Quantity | | Cable |
|-------------------------------|---|-------|
| / | / | / |

1.8. List Of Measuring Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Cal Date | Due Date |
|------|---|----------------------|--------------|-------------|------------|------------|
| 1 | X-series USB Peak and Average Power Sensor Aglient | Agilent | U2021XA | MY54080022 | 2025-04-24 | 2026-04-23 |
| 2 | 4 CH. Simultaneous Sampling 14 Bits 2MS/s | Agilent | U2531A | MY54080016 | 2025-04-24 | 2026-04-23 |
| 3 | Test Software | Ascentest | AT890-SW | 20160630 | N/A | N/A |
| 4 | RF Control Unit | Ascentest | AT890-RFB | N/A | 2025-04-24 | 2026-04-23 |
| 5 | ESA-E SERIES SPECTRUM ANALYZER | Agilent | E4407B | MY41440754 | 2025-04-24 | 2026-04-23 |
| 6 | MXA Signal Analyzer | Agilent | N9020A | MY49100040 | 2025-04-24 | 2026-04-23 |
| 7 | SPECTRUM ANALYZER | R&S | FSP | 100503 | 2025-04-24 | 2026-04-23 |
| 8 | MXG Vector Signal Generator | Agilent | N5182A | MY47071151 | 2025-04-24 | 2026-04-23 |
| 9 | ESG VECTOR SIGNAL GENERATOR | Agilent | E4438C | MY42081396 | 2025-04-24 | 2026-04-23 |
| 10 | PSG Analog Signal Generator | Agilent | E8257D | MY4520521 | 2025-04-24 | 2026-04-23 |
| 11 | Universal Radio Communication Tester | R&S | CMU 200 | 105788 | 2025-04-24 | 2026-04-23 |
| 12 | WIDEBAND RADIO COMMUNICATION TESTER | R&S | CMW 500 | 103818 | 2025-04-24 | 2026-04-23 |
| 13 | RF Control Unit | Tonscend | JS0806-1 | N/A | 2025-04-24 | 2026-04-23 |
| 14 | DC Power Supply | Agilent | E3642A | N/A | 2025-04-24 | 2026-04-23 |
| 15 | LTE Test Software | Tonscend | JS1120-1 | N/A | N/A | N/A |
| 16 | Temperature & Humidity Chamber | GUANGZHOU GOGNWEN | GDS-100 | 70932 | 7000mAh | 2026-04-23 |
| 17 | DC Source | CHROMA | 62012P-80-60 | 34782951 | 2025-04-24 | 2026-04-23 |
| 18 | RF Filter | Micro-Tronics | BRC50718 | S/N-017 | 2025-04-24 | 2026-04-23 |
| 19 | RF Filter | Micro-Tronics | BRC50719 | S/N-011 | 2025-04-24 | 2026-04-23 |
| 20 | RF Filter | Micro-Tronics | BRC50720 | S/N-011 | 2025-04-24 | 2026-04-23 |
| 21 | RF Filter | Micro-Tronics | BRC50721 | S/N-013 | 2025-04-24 | 2026-04-23 |
| 22 | RF Filter | Micro-Tronics | BRM50702 | S/N-195 | 2025-04-24 | 2026-04-23 |
| 23 | Splitter/Combiner | Micro-Tronics | PS2-15 | CB11-20 | 2025-04-24 | 2026-04-23 |
| 24 | Splitter/Combiner | Micro-Tronics | CB11-20 | N/A | 2025-04-24 | 2026-04-23 |
| 25 | Attenuator | Micro-Tronics | PAS-8-10 | S/N23466 | 2025-04-24 | 2026-04-23 |
| 26 | Exposure Level Tester | Narda | ELT-400 | N-0713 | 2025-04-24 | 2026-04-23 |
| 27 | B-Field Probe | Narda | ELT-400 | M-1154 | 2025-04-24 | 2026-04-23 |
| 28 | 3m Semi Anechoic Chamber | SIDT FRANKONIA | SAC-3M | 03CH03-HY | 2025-04-24 | 2026-04-23 |
| 29 | Positioning Controller | MF | MF-7082 | 1 | 2025-04-24 | 2026-04-23 |
| 30 | EMI Test Software | AUDIX | E3 | N/A | 2025-04-24 | 2026-04-23 |
| 31 | EMI Test Receiver | R&S | ESR 7 | 101181 | 2025-04-24 | 2026-04-23 |
| 32 | AMPLIFIER | QuieTek | QTK-A2525G | CHM10809065 | 2025-04-24 | 2026-04-23 |
| 33 | Active Loop Antenna | SCHWARZBECK | FMZB 1519B | 00005 | 2025-04-24 | 2026-04-23 |
| 34 | By-log Antenna | SCHWARZBECK | VULB9163 | 9163-470 | 2025-04-24 | 2026-04-23 |
| 35 | Horn Antenna | SCHWARZBECK | BBHA 9120 D | 9120D-1925 | 2025-04-24 | 2026-04-23 |
| 36 | Broadband Horn Antenna | SCHWARZBECK | BBHA 9170 | 791 | 2025-04-24 | 2026-04-23 |
| 37 | Broadband Preamplifier | SCHWARZBECK | BBV 9719 | 9719-025 | 2025-04-24 | 2026-04-23 |
| 38 | RF Cable-R03m | Jye Bao | RG142 | CB021 | 2025-04-24 | 2026-04-23 |
| 39 | RF Cable-HIGH | SUHNER | SUCOFLEX 106 | 03CH03-HY | 2025-04-24 | 2026-04-23 |

| Item | Equipment | Manufacturer | Model No. | Serial No. | Cal Date | Due Date |
|------|--|-----------------|----------------|-------------|------------|------------|
| 40 | Artificial Mains | R&S | ENV216 | 101288 | 2025-04-24 | 2026-04-23 |
| 41 | Power Analyzer Test System | Voltech | PM6000 | 20000670053 | 2025-04-24 | 2026-04-23 |
| 42 | ESD Simulator | SCHLODER | SESD 230 | 604035 | 2025-04-24 | 2026-04-23 |
| 43 | RF POWER AMPLIFIER | OPHIR | 5225R | 1052 | 2025-04-24 | 2026-04-23 |
| 44 | RF POWER AMPLIFIER | OPHIR | 5273F | 1019 | 2025-04-24 | 2026-04-23 |
| 45 | Stacked Broadband Log Periodic Antenna | SCHWARZBECK | STLP 9128 | 9128ES-145 | 2025-04-24 | 2026-04-23 |
| 46 | Stacked Mikrowellen LogPer Antenna | SCHWARZBECK | STLP 9149 | 9149-482 | 2025-04-24 | 2026-04-23 |
| 47 | Electric field probe | Narda S.TS./PMM | EP601 | 611WX80208 | 2025-04-24 | 2026-04-23 |
| 48 | Power Meter | Agilent | E4419B | MY45104493 | 2025-04-24 | 2026-04-23 |
| 49 | Power Sensor | Agilent | E9301H | MY41495234 | 2025-04-24 | 2026-04-23 |
| 50 | Power Sensor | Agilent | E4412A | MY41500229 | 2025-04-24 | 2026-04-23 |
| 51 | Sound Level meter | BK Precision | 735 | 73500873100 | 2025-04-24 | 2026-04-23 |
| 52 | Audio Analyzer | R&S | UPV | 1146.2003K0 | 2025-04-24 | 2026-04-23 |
| 53 | Mouse Simulation | Bruel & Kjaer | 4227 | A0304216 | 2025-04-24 | 2026-04-23 |
| 54 | Ear Simulation and supply | Bruel & Kjaer | 2669.4182.5935 | A0305284 | 2025-04-24 | 2026-04-23 |
| 55 | Acoustical Calibrators | Bruel & Kjaer | 4231 | A0304215 | 2025-04-24 | 2026-04-23 |
| 56 | Immunity Simulative Generator | EM TEST | UCS500-M4 | 0101-34 | 2025-04-24 | 2026-04-23 |
| 57 | Simulator | FRANKONIA | CIT-10 | A126A1195 | 2025-04-24 | 2026-04-23 |
| 58 | CDN | FRANKONIA | CDN-M2 | 5100100100 | 2025-04-24 | 2026-04-23 |
| 59 | CDN | FRANKONIA | CDN-M3 | 0900-11 | 2025-04-24 | 2026-04-23 |
| 60 | Attenuator | FRANKONIA | ATT6 | 0010222A | 2025-04-24 | 2026-04-23 |
| 61 | Infuse tongs | EM TEST | EM-Clamp | 0513A031201 | 2025-04-24 | 2026-04-23 |
| 62 | Voltage dips and up generator | 3CTEST | VDG-1105G | EC0171014 | 2025-04-24 | 2026-04-23 |

1.9. Measurement Uncertainty

| Item | MU | Remark |
|---|---------|-------------|
| Uncertainty for Power point Conducted Emissions Test | 2.42dB | |
| Uncertainty for Radiation Emission test in 3m chamber | 3.54dB | Polarize: V |
| (30MHz to 1GHz) | 4.1dB | Polarize: H |
| Uncertainty for Radiation Emission test in 3m chamber | 2.08dB | Polarize: H |
| (1GHz to 25GHz) | 2.56dB | Polarize: V |
| Uncertainty for radio frequency | 0.01ppm | |
| Uncertainty for conducted RF Power | 0.65dB | |
| Uncertainty for temperature | 0.2℃ | |
| Uncertainty for humidity | 1% | |
| Uncertainty for DC and low frequency voltages | 0.06% | |

1.10. Description Of Test Modes

There was 3 test Modes. TM1 to TM3 were shown below:

TM1 : Operate in normal work mode;

TM2 : Power on mode;

TM3 : Idle mode

***Note:

1. All test modes were tested, but we only recorded the worst case in this report.

2. SUMMARY OF TEST RESULTS

| Rule | Description of Test Items | Result |
|-----------|---|-----------|
| §11 | EN 61000-6-4 | Compliant |
| 3-1 | Conducted Emission (AC mains input/output port) | Compilant |
| §11 | EN 61000-6-4 Conducted Emission (DC power input/output port) | N/A* |
| 011 | EN 61000-6-4 | 3T/A * |
| §11 | Conducted Emission (Wired network port) | N/A* |
| §11 | EN 61000-6-4 | Compliant |
| 811 | Radiated Emission (Enclosure of ancillary equipment) | |
| § | Harmonic current emissions (AC mains input port) | Compliant |
| § | Voltage fluctuations and flicker (AC mains input port) | Compliant |
| | EN 61000-6-2 | |
| §8 | Electrostatic discharge (Enclosure port) | Compliant |
| | (EN 61000-4-2) | |
| 0.0 | EN 61000-6-2 | C 1: 4 |
| §8 | RF electromagnetic field (80MHz to 1000MHz) (Enclosure port) (EN 61000-4-3) | Compliant |
| | EN 61000-4-3) EN 61000-6-2 | |
| 0.0 | Fast transients common mode (signal, wired network and control ports, DC | G 1: 4 |
| §8 | and AC power ports) | Compliant |
| | (EN 61000-4-4) | |
| | EN 61000-6-2 | |
| §8 | Surges, line to line and line to ground (AC mains power input ports, wired | Compliant |
| 3 | network ports) | |
| | (EN 61000-4-5) EN 61000-6-2 | |
| 0 = | RF common mode 0.15MHz to 80MHz (signal, wired network and control | |
| §8 | ports, DC and AC power ports) | Compliant |
| | (EN 61000-4-6) | |
| | EN 61000-6-2 | |
| §8 | Voltage dips and interruptions (AC mains power input ports) | Compliant |
| | (EN 61000-4-11) | |

3. LINE CONDUCTED EMISSION

3.1. Conducted Emission Limit

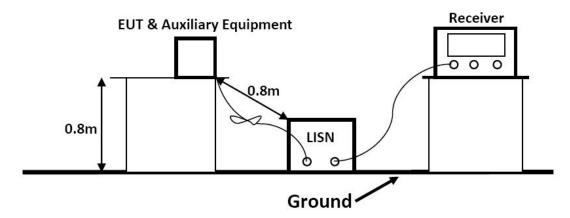
Relevant Standard(s): EN IEC 61000-6-2:2019 /CISPR 11:2009

| Limits for Line Conducted Emission | | | | | |
|------------------------------------|--------------------------------|------|--|--|--|
| Frequency | Limit (dBμV) | | | | |
| (MHz) | Quasi-peak Level Average Level | | | | |
| 0.15 ~ 0.50 | 79 * | 66 * | | | |
| 0.50 ~ 30.00 | 73.0 60 | | | | |

NOTE1-The lower limit shall apply at the transition frequencies.

NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

3.2. Test Configuration



The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The EUT received charging power from the Adapter which received power through a LISN supplying power of AC 380V/50Hz.

3.3. EMI Test Receiver Setup

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Receiver Parameter | Setting | |
|------------------------|----------------|--|
| Attenuation | Auto | |
| Start ~ Stop Frequency | 150KHz ~ 30MHz | |
| (IF)RBW | 9kHz | |

All data was recorded in the Quasi-peak and average detection mode.

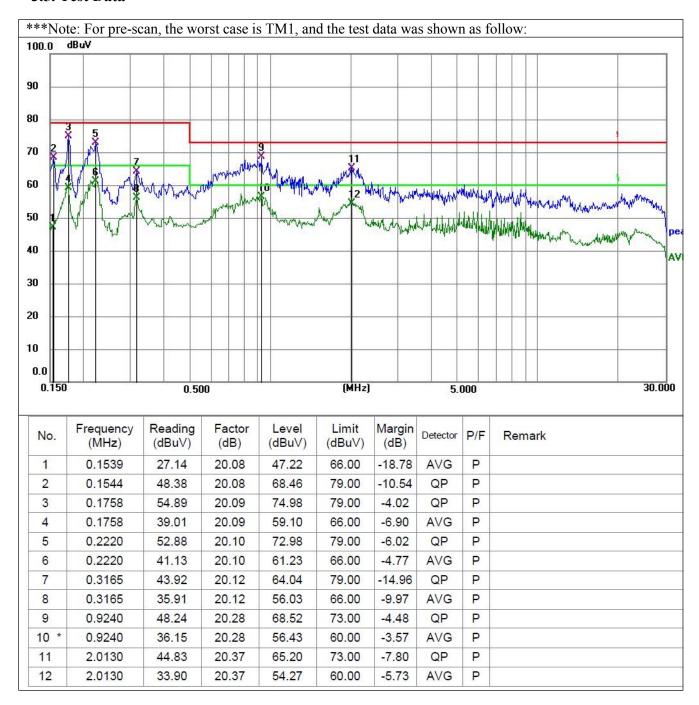
3.4. Test Procedure

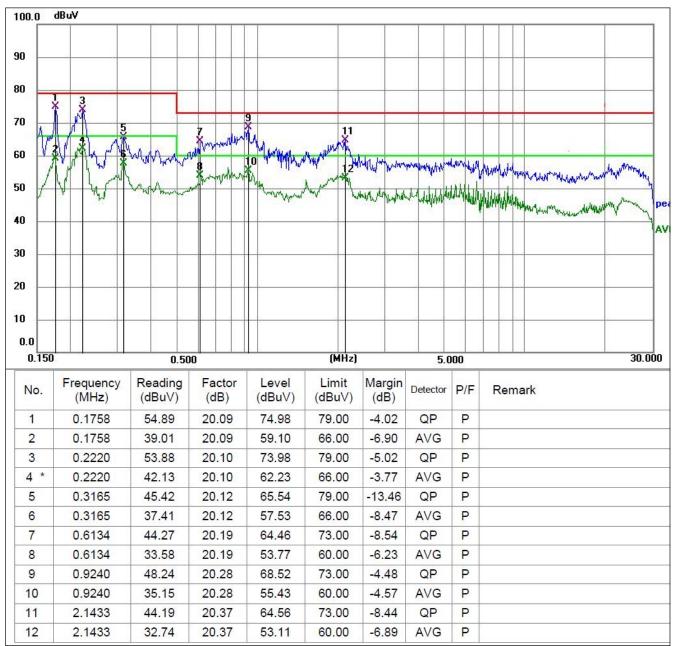
Power on the EUT, the EUT begins to work. Make sure the EUT operates normally during the test.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

3.5. Test Data





Note: For conducted emission and radiated emission test, a power supply of 230VAC and 120VAC was used for testing respectively, and only recorded the worst case of 230VAC.

4. RADIATED DISTURBANCE

4.1. Radiated Emission Limit

Relevant Standard(s): EN IEC 61000-6-2:2019 /CISPR 11:2009

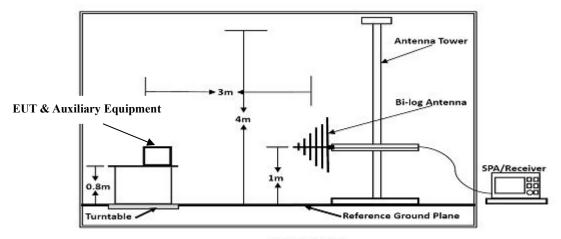
| Limits for Radiated Disturbance Below 1GHz | | | | | | |
|--|----------|----|--|--|--|--|
| Frequency Distance Field Strengths Limit | | | | | | |
| (MHz) | (dBµV/m) | | | | | |
| 30 ~ 230 3 50 | | | | | | |
| 230 ~ 1000 | 3 | 57 | | | | |

^{***}Note:

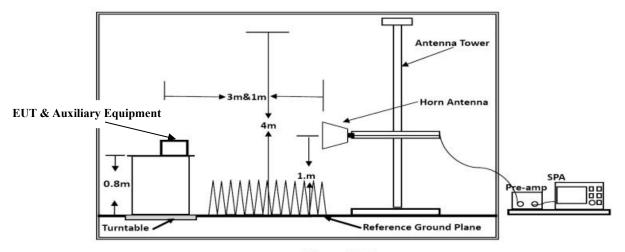
- (1) The smaller limit shall apply at the combination point between two frequency bands.
- (2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

| Limits for Radiated Disturbance Above 1GHz | | | | | | |
|---|----------|------------|---------------|--|--|--|
| Frequency | Distance | Peak Limit | Average Limit | | | |
| (MHz) $(Meters)$ $(dB\mu V/m)$ $(dB\mu V/m)$ | | | | | | |
| 1000 ~ 3000 | 3 | 76 | 56 | | | |
| 3000 ~ 6000 | 3 | 80 | 60 | | | |
| ***Note: The lower limit applies at the transition frequency. | | | | | | |

4.2. Test Configuration



Below 1GHz



Above 1GHz

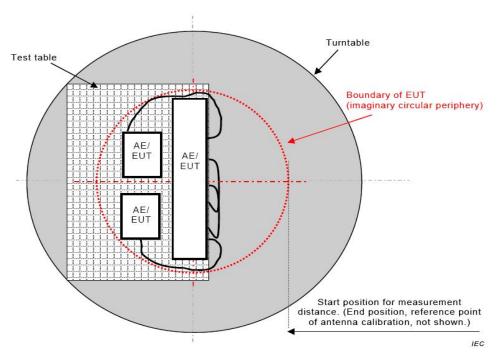


Figure C.2 - Boundary of EUT, Local AE and associated cabling

4.3. Test Procedure

1) Sequence of testing 30 MHz to 1 GHz Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Pre-measurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height changes from 1 to 4 meter.
- --- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (\pm 45°) and antenna movement between 1 and 4 meter.
- --- The final measurement will be done with QP detector with an EMI receiver.
- --- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre-measurement with marked maximum final measurements and the limit will be stored.

2) Sequence of testing 1 GHz to 6 GHz Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Pre-measurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height scan range is 1 meter to 4 meter.
- --- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of pre-measurement the software maximize the peaks by changing turntable position (\pm 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- --- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with

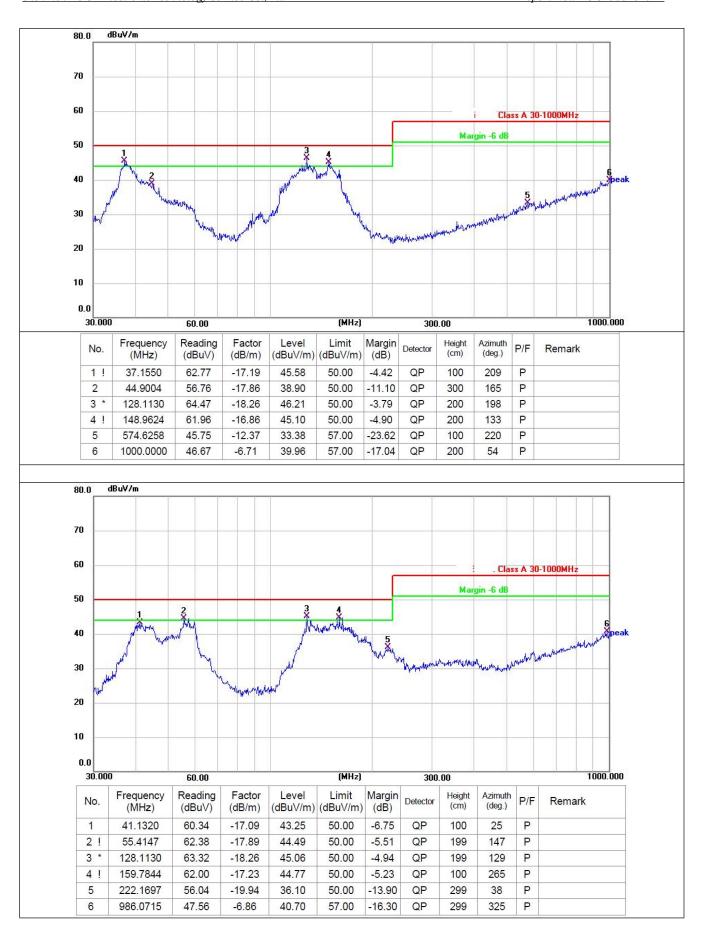
the graph of the pre-measurement with marked maximum final measurements and the limit will be stored.

| Receiver Parameter | Setting | | |
|------------------------|-----------------------------------|--|--|
| Attenuation | Auto | | |
| Start ~ Stop Frequency | 30MHz~1000MHz / RBW 100kHz for QP | | |

| Spectrum Parameter | Setting | | |
|--------------------|--|--|--|
| Attenuation | Auto | | |
| Start Frequency | 1000 MHz | | |
| Stop Frequency | 6000 MHz | | |
| DDW / VDW | 1MHz / 1MHz for Peak, 1 MHz / 10Hz for | | |
| RBW / VBW | Average | | |

4.4. Test Data

The worst test mode of the EUT was TM1, and its test data was showed as the follow:



| Test Mode: TM1 (Above 1GHz) | | | Test Distance: 3m | | | | |
|-----------------------------|--|----------------------|-------------------|-------|----------------|--------|--------|
| Test Voltage: AC 380V/50Hz | | Test Results: Passed | | | | | |
| Detector Fu | nction: Peak + | AV | | | | | |
| Polarization | Polarization Frequency Emission Level (dBµV/m) | | Limit (dBµV/m) | | Margin (dB) | | |
| | 1350.63 | 50.09 | 37.90 | 76.00 | 56.00 | -19.91 | -12.10 |
| | 1884.93 | 47.85 | 36.33 | 76.00 | 56.00 | -22.15 | -13.67 |
| Hamimantal | 2188.83 | 49.02 | 31.69 | 76.00 | 56.00 | -24.98 | -22.31 |
| Horizontal | 3290.43 | 56.29 | 31.63 | 80.00 | 60.00 | -17.71 | -22.37 |
| | 4332.04 | 51.33 | 34.55 | 80.00 | 60.00 | -22.67 | -19.45 |
| | 5886.54 | 53.77 | 36.46 | 80.00 | 60.00 | -20.23 | -17.54 |
| | 1350.31 | 50.01 | 36.54 | 76.00 | 56.00 | -19.99 | -13.46 |
| | 1884.74 | 47.84 | 36.12 | 76.00 | 56.00 | -22.16 | -13.88 |
| Vertical | 2191.17 | 48.03 | 30.57 | 76.00 | 56.00 | -25.97 | -23.43 |
| vertical | 3294.60 | 57.43 | 33.09 | 80.00 | 60.00 | -16.57 | -20.91 |
| | 4328.72 | 50.94 | 35.04 | 80.00 | 60.00 | -23.06 | -18.96 |
| | 5884.18 | 55.10 | 36.79 | 80.00 | 60.00 | -18.90 | -17.21 |

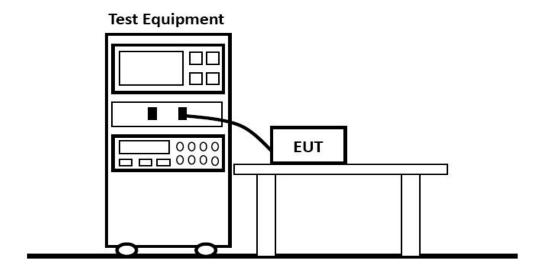
^{1.} Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.

^{2.} Measurements above show only up to 6 maximum emissions noted.

^{3.} Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

5. HARMONIC CURRENT EMISSIONS

5.1. Test Configuration



5.2. Test Standard

According to EN IEC 61000-6-2:2019 & EN 61000-3-2: 2014

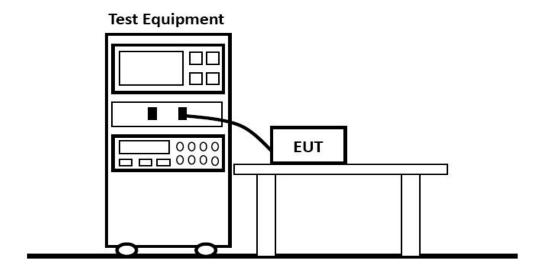
5.3. Test Data

| Test Model | ILT-180VF/BC | Test Engineer | Jason Li |
|---------------------------------|-----------------|---------------|--------------|
| Environmental Conditions | 24.6℃, 52.6% RH | Test Voltage | AC 380V/50Hz |

Because power of EUT less than 75W, According standard EN 61000-3-2, Harmonic current unnecessary to test.

6. VOLTAGE FLUCTUATION AND FLICKER

6.1. Test Configuration



6.2. Test Standard

According to EN IEC 61000-6-2:2019 & EN 61000-3-3: 2013

6.3. Test Data

PASS.

7. GENERAL PERFORMANCE CRITERIA FOR IMMUNITY TEST

Performance criteria for EN IEC 61000-6-2

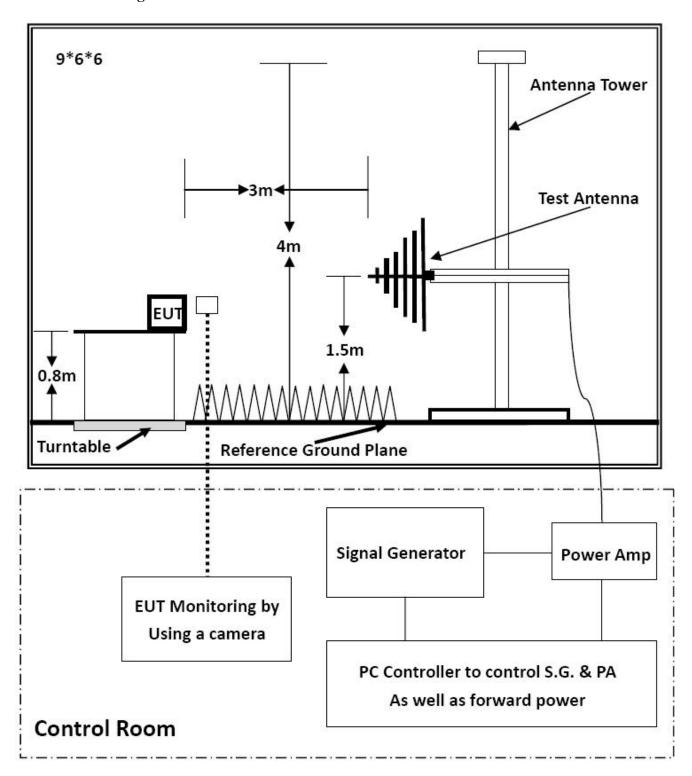
A functional description and a definition of specific performance criteria, during or as a consequence of immunity testing of equipment under test (EUT), shall be provided by the manufacturer and noted in the test report. They shall be consistent with one of the following general criteria for each test as specified in Table 1 to Table 4:

- a) Performance criterion A: The EUT shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the EUT is used as intended. If the performance level is not specified by the manufacturer, this may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.
- b) Performance criterion B: The EUT shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the EUT is used as intended. The performance level may be replaced by a permissible loss of performance. However, during the test degradation of performance is allowed but no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.
- c) Performance criterion C: Temporary loss of function is allowed during the test, provided the function is self-recoverable or can be restored by the operation of the controls.

If, as a result of the application of the tests defined in this standard, the EUT becomes dangerous or unsafe, it shall be deemed to have failed the test.

8. RF ELECTROMAGNETIC FIELD (80 MHz - 1000 MHz)

8.1. Test Configuration



8.2. Test Standard

EN 61000-6-2, EN61000-4-3

Test level 3 at 10V/m.

8.3. Severity Level

| Level | Field Strength (V/m) | | |
|---------------------------------|----------------------|--|--|
| 1 | 1 | | |
| 2 | 3 | | |
| 3 | 10 | | |
| X | Special | | |
| Performance Criterion: A | | | |

8.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. EUT is set 3 meter away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna are set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually. In order to judge the EUT performance, a CCD camera is used to monitor EUT screen. All the scanning conditions are as follows:

| Condition of Test | Remark | |
|------------------------|---------------------------|--|
| Fielded Strength | 10 V/m (Severity Level 2) | |
| Radiated Signal | Unmodulated | |
| Scanning Frequency | 80-1000MHz | |
| Dwell time of radiated | 0.0015 decade/s | |
| Waiting Time | 3 Sec. | |

8.5. Test Result

| Test Model | ILT-180VF/BC | Test Engineer | Jason Li |
|---------------------------------|-----------------|---------------|--------------|
| Environmental Conditions | 23.5℃, 53.2% RH | Test Voltage | AC 380V/50Hz |

2.4G TM1 Test Result:

| EUT Working Mode | Antenna Polarity | Frequency (MHz) | Fielded Strength (V/m) | Observation | Position | Conclusion |
|---------------------|---------------------|-----------------|------------------------------|-------------|-----------------------------|------------|
| Operating Mode | Vertical | 80-1000 | 10 | CT, CR | Front, Right, Left, Back | Pass |
| Operating Mode | Horizontal | 80-1000 | 10 | CT, CR | Front, Right, Left, Back | Pass |
| ldle | Vertical | 80-1000 | 10 | See Note | Front, Right, Left, Back | Pass |
| idle | Horizontal | 80-1000 | 10 | See Note | Front, Right, Left, Back | Pass |

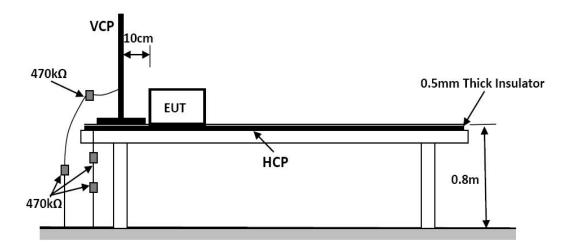
TM2-TM3 Test Result:

| EUT Working Mode | Antenna Polarity | Frequency (MHz) | Fielded Strength (V/m) | Observation | Position | Conclusion |
|---------------------|---------------------|-----------------|------------------------------|-------------|-----------------------------|------------|
| Operating Mode | Vertical | 80-1000 | 10 | See Note | Front, Right, Left, Back | Pass |
| Operating wode | Horizontal | 80-1000 | 10 | See Note | Front, Right, Left, Back | Pass |
| ldle | Vertical | 80-1000 | 10 | See Note | Front, Right, Left, Back | Pass |
| luie | Horizontal | 80-1000 | 10 | See Note | Front, Right, Left, Back | Pass |

9. ELECTROSTATIC DISCHARGE

Please refer to ETSI EN 301 489-1 and EN 61000-4-2.

9.1. Test Configuration



EN 61000-4-2 specifies that a tabletop EUT shall be placed on a non-conducting table which is 80 centimeters above a ground reference plane and that floor mounted equipment shall be placed on a insulating support approximately 10 centimeters above a ground plane. During the tests, the EUT is positioned over a ground reference plane in conformance with this requirement.

For tabletop equipment, a 1.5 by 1.0-meter metal sheet (HCP) is placed on the table and connected to the ground plane via a metal strap with two 470 k Ohms resistors in series. The EUT and attached cables are isolated from this metal sheet by 0.5-millimeter thick insulating material. A Vertical Coupling Plane (VCP) grounded on the ground plane through the same configuration as in the HCP is used.

9.2. Test Procedure

EN IEC 61000-6-2:2019 / EN 61000-4-2: 2009

Test level 3 for Air Discharge at ±8 kV

Test level 2 for Contact Discharge at ±4 kV

9.2.1. Air Discharge

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

9.2.2. Contact Discharge

All the procedure shall be same as Section 9.2.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

9.2.3. Indirect Discharge For Horizontal Coupling Plane

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the center point of each unit (if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

9.2.4. Indirect Discharge For Vertical Coupling Plane

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

9.3. Test Data

PASS.

| Electrostatic Discharge Test Results | | | |
|--------------------------------------|--------------------------------|-------------|----------|
| Standard | ☐ IEC 61000-4-2 ☐ EN 61000-4-2 | | |
| Applicant | BT TECHNOLOGY (HK) LIMITED | | |
| EUT | FIBER LASER MACHINE | Temperature | 23.5℃ |
| M/N | ILT-180VF/BC | Humidity | 53.1% |
| Criterion | В | Pressure | 1021mbar |
| Test Mode | TM1-TM3 | Test Date | |
| Test Engineer | Jason Li | | |

TEST RESULT OF TM1

| Test Voltage | Coupling | Observation | Result (Pass/Fail) |
|-----------------------------------|------------------------|-------------|--------------------|
| ±2KV, ±4kV | Contact Discharge | CT, CR | Pass |
| $\pm 2KV$, $\pm 4kV$, $\pm 8kV$ | Air Discharge | CT, CR | Pass |
| ±2KV, ±4kV | Indirect Discharge HCP | CT, CR | Pass |
| ±2KV, ±4kV | Indirect Discharge VCP | CT, CR | Pass |

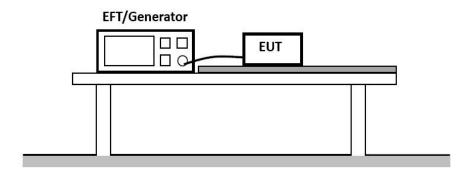
TEST RESULT OF TM2-TM3

| TEST RESCEI OF THE THE | | | | |
|------------------------|------------------------|--------------------|--|--|
| Test Voltage | Coupling | Result (Pass/Fail) | | |
| ±2KV, ±4kV | Contact Discharge | Pass | | |
| ±2KV, ±4kV, ±8kV | Air Discharge | Pass | | |
| ±2KV, ±4kV | Indirect Discharge HCP | Pass | | |
| ±2KV, ±4kV | Indirect Discharge VCP | Pass | | |

Note: The EUT performance complied with performance criteria for CT&CR to MS Function and there is no any degradation of performance and function.

10. ELECTRICAL FAST TRANSIENT IMMUNITY

10.1. Test Configuration



10.2. Test Standard

EN IEC 61000-6-2:2019/ EN61000-4-4: 2012

Test level 2 kV

| Test level 2 KV | | | | |
|---|---------------------------------|---------|--|--|
| Test Level | | | | |
| Open C | Circuit Output Test Voltage ±10 | 0% | | |
| Level On Power Supply Lines On I/O (Input/Output) Signal data and control lines | | | | |
| 1 | 0.5 kV | 0.25 kV | | |
| 2 | 2 1 kV 0.5 kV | | | |
| 3 | 3 2 kV 1 kV | | | |
| 4 | 4 kV | 2 kV | | |
| X | Special | Special | | |
| Performance Criterion: B | | | | |

10.3. Test Procedure

The EUT is put on the table, which is 0.8 meter high above the ground. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

10.3.1. For input and output AC power ports:

The EUT is connected to the power mains by using a coupling device, which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 minutes.

- 10.3.2. For signal lines and control lines ports: No I/O ports. It's unnecessary to test.
- 10.3.3. For DC output line ports: It's unnecessary to test.

10.4. Test Data

PASS.

Please refer to the following page.

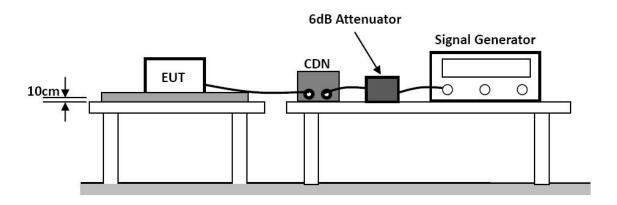
| Electrical Fast Transient/Burst Test Results | | | |
|--|--------------------------------|-------------|-------|
| Standard | □ IEC 61000-4-4 ☑ EN 61000-4-4 | | |
| Applicant | BT TECHNOLOGY (HK) LIMITED | | |
| EUT | FIBER LASER MACHINE | Temperature | 24.6℃ |
| M/N | ILT-180VF/BC | Humidity | 52.6% |
| Test Mode | TM1-TM3 Criterion B | | В |
| Test Engineer | Jason Li | | |

| TEST RESULT OF TM1 | | | | |
|--------------------|--------------|----------|-------------|--------------------|
| Line | Test Voltage | Polarity | Observation | Result (Pass/Fail) |
| L | 2KV | +/- | CT, CR | Pass |
| N | 2KV | +/- | CT, CR | Pass |
| L-N | 2KV | +/- | CT, CR | Pass |

| TEST RESULT OF TM2-TM3 | | | | |
|------------------------|--------------|----------|--------------------|--|
| Line | Test Voltage | Polarity | Result (Pass/Fail) | |
| L | 2KV | +/- | Pass | |
| N | 2KV | +/- | Pass | |
| L-N | 2KV | +/- | Pass | |

11. RF COMMON MODE

11.1. Test Configuration



11.2. Test Standard

EN IEC 61000-6-2:2019/ EN 61000-4-6: 2014 Test level 3 at 310V (r.m.s.), 0.15 MHz ~ 80 MHz,

Modulation type: AM Modulation depth: 80% Modulation signal: 1 kHz

| Woddiation signar. 1 KHZ | | |
|--------------------------|---------|--|
| Test Level | | |
| Voltage Level (r.m.s) | | |
| Level | (V) | |
| 1 | 1 | |
| 2 | 3 | |
| 3 | 10 | |
| X | Special | |
| Performance Criterion: A | | |

11.3. Test Procedure

- 11.3.1. Let the EUT work in test mode and test it.
- 11.3.2. The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50mm (where possible).
- 11.3.3. The disturbance signal described below is injected to EUT through CDN.
- 11.3.4. The EUT operates within its operational mode(s) under intended climatic conditions after power on.
- 11.3.5. The frequency range is swept from 150kHz to 80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1kHz sine wave.
- 11.3.6. The rate of sweep shall not exceed 1.5*10-3 decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
- 11.3.7. Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

11.4. Test Data

PASS.

Please refer to the following page.

| Injected Currents Susceptibility Test Results | | | | |
|---|-----------------------------|--|-------|--|
| Standard | ☐ IEC 61000-4-6 | | | |
| Applicant | BT TECHNOLOGY (HK) LIMITED | | | |
| EUT | FIBER LASER MACHINE | FIBER LASER MACHINE Temperature 22.6°C | | |
| M/N | ILT-180VF/BC Humidity 52.3% | | 52.3% | |
| Test Mode | TM1-TM3 Criterion A | | | |
| Test Engineer | Jason Li | | | |

| TEST RESULT OF TM1 | | | | |
|--------------------------|--|----|-------------|--------------------|
| Frequency Range (MHz) | Injected Strength Position (Unmodulated) | | Observation | Result (Pass/Fail) |
| 0.15 ~ 80 | AC Mains | 3V | CT, CR | Pass |

| TEST RESULT OF TM2-TM3 | | | |
|---|----------|--------------------|------|
| Frequency Injected Strength Range (MHz) Position (Unmodulated) Result | | Result (Pass/Fail) | |
| 0.15 ~ 80 | AC Mains | 10V | Pass |

Remark:

1. Modulation Signal:1kHz 80% AM

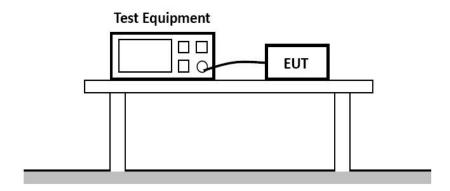
2. Measurement Equipment :

Simulator: CIT-10 (FRANKONIA)

CDN : ☑CDN-M2 (FRANKONIA) ☐CDN-M3 (FRANKONIA)

12. SURGES, LINE TO LINE AND LINE TO GROUND

12.1. Test Configuration



12.2. Test Standard

EN IEC 61000-6-2:2019 / EN 61000-4-5: 2014

L-N: Test level 2 at 1 kV

L-PE. N-PE Test Level 3 at 2kV

| L-1 L, N-1 L Test Level 5 at 2KV | | | |
|---|--------------------------------------|---------|--|
| Test Level | | | |
| Open C | Circuit Output Test Voltage ± 10 | 0% | |
| Level On Power Supply Lines On I/O (Input/Output) Signal data and control lines | | | |
| 1 | 0.5 kV | 0.25 kV | |
| 2 1 kV 0.5 kV | | | |
| 3 2 kV 1 kV | | | |
| 4 4 kV 2 kV | | | |
| X Special Special | | | |
| Performance Criterion: B | | | |

12.3. Test Procedure

- 12.3.1. For line to line coupling mode, provide a 0.5 kV 1.2/50us voltage surge (at open-circuit condition).
- 12.3.2. At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
- 12.3.3. Different phase angles are done individually.
- 12.3.4. Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

12.4. Test Data

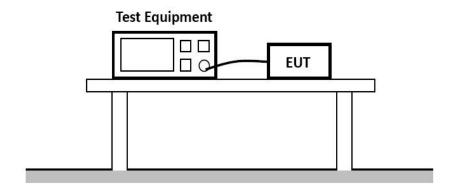
| Surge Immunity Test Result | | | | |
|----------------------------|----------------------------------|-------------|-------|--|
| Standard | □ IEC 61000-4-5 ☑ EN 61000-4-5 | | | |
| Applicant | BT TECHNOLOGY (HK) LIMITED | | | |
| EUT | FIBER LASER MACHINE | Temperature | 24.6℃ | |
| M/N | ILT-180VF/BC | Humidity | 52.6% | |
| Test Mode | TM1-TM3 | Criterion | A | |
| Test Engineer | Jason Li | | | |

| TEST RESULT OF TM1 | | | | | | |
|--------------------|-----------------------------------|---------------------|--------------------------|-------------|-----------------------|------|
| Location | on Polarity Phase Angle Number Vo | | Pulse Voltage (KV) | Observation | Result (Pass/Fail) | |
| L-N | + | 0°, 90°, 180°, 270° | 5 | 1.0 | CT, CR | Pass |
| L-IN | - | 0°, 90°, 180°, 270° | 5 | 1.0 | CT, CR | Pass |
| | | | | | | |
| | | | | | | |

| TEST RESULT OF TM2-TM3 | | | | | |
|------------------------|----------|---------------------|--------------------|-----------------------|-----------------------|
| Location | Polarity | Phase Angle | Number of Pulse | Pulse Voltage (KV) | Result (Pass/Fail) |
| L-N | + | 0°, 90°, 180°, 270° | 5 | 1.0 | Pass |
| | - | 0°, 90°, 180°, 270° | 5 | 1.0 | Pass |
| | | | | | |
| | | | | | |

13. VOLTAGE DIPS/INTERRUPTIONS IMMUNITY TEST

13.1. Test Configuration



13.2. Test Standard

EN IEC 61000-6-2:2019/ EN 61000-4-11: 2004

Test levels and Performance Criterion

| 1050 10 vois una 1 oriormuneo ericerion | | | | |
|---|-----------------|-------------|--|--|
| Test Level | | | | |
| Voltage Reduction | Voltage Dips | Duration | | |
| %U _T | %U _T | (in Period) | | |
| 100 | 0 | 0.5 | | |
| 100 | 0 | 1 | | |
| 30 | 70 | 5 | | |
| Voltage Reduction | Voltage Dips | Duration | | |
| %U _T | %U _T | (in Period) | | |
| 100 | 0 | 250 | | |
| Performance Criterion: B&C | | | | |

13.3. Test Procedure

- 13.3.1. The interruption is introduced at selected phase angles with specified duration.
- 13.3.2. Record any degradation of performance.

13.4. Test Data

| Voltage Dips And Interruptions Test Results | | | |
|---|----------------------------------|-------------|-------|
| Standard | □ IEC 61000-4-11 □ EN 61000-4-11 | | |
| Applicant | BT TECHNOLOGY (HK) LIMITED | | |
| EUT | FIBER LASER MACHINE | Temperature | 24.6℃ |
| M/N | ILT-180VF/BC | Humidity | 52.6% |
| Test Mode | TM1-TM3 | Criterion | A |
| Test Engineer | Jason Li | | |

| TEST RESULT OF TM1 | | | | | |
|--------------------------------|--|--------------------------|-------------|--------------------|--|
| Test Level % U _T | Voltage Dips & Short Interruptions % U _T | Duration (in periods) | Observation | Result (Pass/Fail) | |
| 0 | 100 | 0.5P | CT, CR | Pass | |
| 0 | 100 | 1P | CT, CR | Pass | |
| 40 | 100 | 0.5P | CT, CR | Pass | |
| 40 | 100 | 1P | CT, CR | Pass | |
| 70 | 30 | 25P | CT, CR | Pass | |
| 0 | 100 | 250P | CT, CR | Pass | |

| TEST RESULT OF TM2-TM3 | | | | |
|--------------------------------|--|--------------------------|--------------------|--|
| Test Level % U _T | Voltage Dips & Short Interruptions % U _T | Duration (in periods) | Result (Pass/Fail) | |
| 0 | 100 | 0.5P | Pass | |
| 0 | 100 | 1P | Pass | |
| 40 | 100 | 0.5P | Pass | |
| 40 | 100 | 1P | Pass | |
| 70 | 30 | 25P | Pass | |
| 0 | 100 | 250P | Pass | |

14. Setup Photographs



Fig.1

-----THE END OF REPORT-----