



EMC TEST REPORT

EN 55011:2016/A2:2021

EN IEC 61000-6-2:2019

EN IEC 61000-6-4:2019

EN IEC 61800-3:2018

MEASUREMENT AND TEST REPORT

For

Shenzhen Rtelligent Technology Co.,Ltd

2F-6F, A Building, Ruiitech Industrial Park, Xingyu Road No.23, Xixiang Street, Bao an District, Shenzhen,Guangdong Province China,518102

Model: T60S, T42S, T86S, EST60, EST60X2, D5V120E, D5V120C, D5V250E, D5V380E, D5V380C, R42, R60, R57, R86, R86Mini, T60, T86

2025-06-11

This Report Concerns:

Original Report

Equipment Type:

Stepper Servo Drives

Test Engineer:

Shawn Lei/

Shawn Lei

Report Number:

R2506EMC04004

Test Date:

2025-06-04 to 2025-06-11

Reviewed By:

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of Shenzhen Tong Chuang Tian Hai Technology Service Co., Ltd.



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1 - SUMMARY OF STANDARDS AND RESULTS

1.1 DESCRIPTION OF STANDARDS AND RESULTS

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

| EMISSION | | | | |
|--|---|---|--------------------|---------|
| Description of Test Item | Test Standard | Basic Standard | Requirement | Results |
| Conducted disturbance | / | / | / | N/A |
| Radiated disturbance | EN 55011:2016/A2:2021 EN IEC 61000-6-4:2019 EN IEC 61800-3:2018 | EN 55011:2016 /A2:2021 EN IEC 61000-6-4: 2019 EN IEC 61800-3:2018 | See Section 4 | PASS |
| Harmonic current emissions | / | / | / | N/A |
| Voltage fluctuations & flicker* | / | / | / | N/A |
| IMMUNITY | | | | |
| Description of Test Item | Test Standard | Basic Standard | Test configuration | Results |
| Electrostatic discharge (ESD) | EN IEC 61000-6-2 :2019 EN IEC 61800-3:2018 | IEC 61000-4-2:2008 | See Section 5.1 | PASS |
| Radio-frequency, Continuous radiated disturbance | EN IEC 61000-6-2 :2019 EN IEC 61800-3:2018 | IEC 61000-4-3:2020 | See Section 5.2 | PASS |
| Electrical fast transient (EFT) | / | / | / | N/A |
| Surge (Input a.c. power ports) | / | / | / | N/A |
| Radio-frequency, Continuous conducted disturbance | / | / | / | N/A |
| Power frequency magnetic field* | / | / | / | N/A |
| Voltage dips and interruptions | / | / | / | N/A |
| Note: N/A is an abbreviation for Not Applicable “*” : The EUT does not contain devices susceptible to magnetic fields; therefore the Power-Frequency Magnetic Fields test is not necessary. | | | | |



1.2 DESCRIPTION OF PERFORMANCE CRITERIA

General Performance Criteria

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.

1.2.1 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.

1.2.2 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.

1.2.3 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.



2 - GENERAL INFORMATION

2.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST EUT

Client Information

Applicant: Shenzhen Rtelligent Technology Co.,Ltd
Address: 2F-6F, A Building, Ruitech Industrial Park, Xingyu Road No.23, Xixiang Street, Bao an District, Shenzhen,Guangdong Province China,518102
Manufacturer: Shenzhen Rtelligent Technology Co.,Ltd
Address: 2F-6F, A Building, Ruitech Industrial Park, Xingyu Road No.23, Xixiang Street, Bao an District, Shenzhen,Guangdong Province China,518102

General Description of E.U.T

EUT Name: Stepper Servo Drives
Trade Mark: N/A
Model No.: T60S,T42S,T86S,EST60,EST60X2,D5V120E,D5V120C,D5V250E,D5V380E,D5V380C ,R42,R60,R57,R86,R86Mini,T60,T86
Model Difference: All models have the same circuit structure, but use different software programs
Sample No.: 2506EMC04004
Ratings: Input: DC 48V,3A, 150W
Test Mode: Mode 1:Power On
Note: All test results are based on model T60S

2.2 STATEMENT OF THE MEASUREMENT UNCERTAINTY TEST FACILITY

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration Limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16-4-2 “Specification for radio disturbance and immunity measuring apparatus and methods - Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN ENISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

2.3 MEASUREMENT UNCERTAINTY

| Test | Parameters | Expanded uncertainty (Ulab) | Expanded uncertainty (Ucisp) |
|---------------------------------------|--|--------------------------------|------------------------------|
| Conducted Emission (mains power port) | Level accuracy (9kHz to 150kHz) (150kHz to 30MHz) | ± 3.44 dB ± 2.80 dB | ± 3.8 dB ± 3.4 dB |
| Conducted Emission (asymmetric mode) | Level accuracy (150kHz to 30MHz) | ± 2.59 dB | ± 5.0 dB |
| Power disturbance | Level accuracy (30MHz to 300MHz) | ± 3.20 dB | ± 4.5 dB |



| | | | |
|--|-----------------------------------|---------------|--------------|
| Electromagnetic Radiated Emission (3-loop) | Level accuracy (9kHz to 30MHz) | ± 3.10 dB | ± 3.3 dB |
| Radiated Emission | Level accuracy (30MHz to 1000MHz) | ± 5.70 dB | ± 6.3 dB |
| Radiated Emission | Level accuracy (1GHz to 6GHz) | ± 4.64 dB | ± 5.2 dB |
| Radiated Emission | Level accuracy (6GHz to 18GHz) | ± 5.05 dB | ± 5.5 dB |
| Mains Harmonic | Voltage | $\pm 1.80\%$ | N/A |
| Voltage Fluctuations & Flicker | Voltage | $\pm 0.64\%$ | N/A |

(1) Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

(2) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

(3) The measurement uncertainty is not included in the test result.

2.4 TEST LOCATION

All tests were performed at Shenzhen Tianhai Test Technology Co., Ltd.
125-126, No.66, Zhangge Road ,Zhangge Community, Fucheng Street, Longhua District, Shenzhen, Guangdong Province, P.R. China

2.5 PRINCIPLE OF CONFIGURATION SELECTION

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.
Immunity: The equipment under test (EUT) was configured to have its highest possible susceptibility against the tested phenomena. The test modes were adapted accordingly in reference to the instructions for use.

2.6 TEST OPERATION

Test operation refers to test setup in chapter 4 & 5
Pretest in all operation modes, and find out the worst case for compliance test.
According to section 2.1, all test results are based on model T60S



2.7 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT

The EUT was tested together with the following accessories:

| Kind of Equipment | Manufacturer | Model Number | S/N |
|-------------------|--------------|--------------|-----|
| / | / | / | / |

The EUT was tested with following cables:

| Cable name | Length (m) | Shield | Core No. |
|------------|------------|--------|----------|
| / | / | / | / |



3 - TEST EQUIPMENT LIST AND DETAILS

| Kind of Equipment | Manufacturer | Type | S/N | Calibrate until |
|---------------------------------------|--------------------|------------------|----------------|-----------------|
| Conducted Emission | | | | |
| EMI Test Receiver | R&S | ESR7 | 102333 | 2025-11-14 |
| L.I.S.N | Schwarzbeck | NNLK 8128 | 5089 | 2025-11-14 |
| 8-Wire ISN CAT6 | Schwarzbeck | NTFM 8158 | 231 | 2025-11-14 |
| Pulse Limiter | Schwarzbeck | VTSD 9561-F | 847 | 2025-11-14 |
| Test software | EZ | EMC-CON 3A1.1 | / | / |
| Disturbance power | | | | |
| EMI Test Receiver | R&S | ESR7 | 102333 | 2025-11-14 |
| EMI Absorbing Clamp | Teseq | MDS 21B | 58115 | 2025-11-17 |
| Test software | EZ | EMC-CON 3A1.1 | / | / |
| LLAS Radiated Disturbance (2m) | | | | |
| EMI Test Receiver | R&S | ESR7 | 102333 | 2025-11-14 |
| Loop Antenna | Schwarzbeck | HXYZ 9170 | 353 | 2025-11-14 |
| Test software | EZ | EMC-CON 3A1.1 | / | / |
| Radiated Emission (3m) | | | | |
| EMI Test Receiver | R&S | ESR7 | 102333 | 2025-11-14 |
| MXA Signal Analyzer | Keysight | N9020A | MY51281805 | 2026-04-21 |
| Bilog Antenna | Schwarzbeck | VULB 9168 | 01148 | 2025-11-17 |
| Pre-Amplifier | Schwarzbeck | BBV 9718 B | 00109 | 2025-11-14 |
| Pre-Amplifier | Schwarzbeck | BBV 9743 B | 00253 | 2025-11-14 |
| Pre-Amplifier | GUANGGU ELECTRONIC | GLNA18-40GK-5372 | 20210331001 | 2025-11-14 |
| Active Loop Antenna | Schwarzbeck | FMZB 1519 B | 00148 | 2025-11-14 |
| Horn Antenna | Schwarzbeck | BBHA 9120 | 02379 | 2025-11-17 |
| Test software | FALA | / | FA-03A2 RE | / |
| Harmonics & Flicker | | | | |
| 5kVA AC Power Source | AMETEK CTS | 5001iX-CTS-400 | 2046A03237 | 2025-11-14 |
| Signal Conditioning Unit | AMETEK CTS | PACS-1 | 2046A03238 | 2025-11-17 |
| Test software | AMETEK CTS | CTS 4 | Version 4.26.0 | / |
| Electrostatic discharge (ESD) | | | | |



| | | | | |
|--|-------------|-------------------|----------------|------------|
| ESD Simulator | TESEQ | NSG 437 | 1569 | 2025-11-14 |
| Radio-frequency,Continuous radiated disturbance (RS) | | | | |
| Signal generator | R&S | SMB 100A | 113650 | 2026-04-21 |
| Power meter | Agilent | E4417A | MY45100899 | 2026-04-21 |
| Power sensor | Agilent | E9321A | US40390494 | 2026-04-21 |
| Power sensor | Agilent | E9322A | MY44420219 | 2026-04-21 |
| Power amplifier | Micotop | MPA-80-1000-250 | MPA2112426 | 2026-04-21 |
| Power amplifier | Micotop | MPA-1000-6000-100 | MPA2201013 | 2026-04-21 |
| Stacked Log. Periodic Antenna | Schwarzbeck | STLP 9129 | 201 | N/A |
| Field strength probe | PMM | EP601 | 811ZX10673 | 2026-04-21 |
| RF Switch | Emtrace | SW X4 | / | N/A |
| Test Software | Emtrace | EM 3 | V1.2.1 | N/A |
| Electrical fast transient (EFT) | | | | |
| Burst Tester | 3C TEST | EFT 500T | ES027000120015 | 2025-11-14 |
| Coupling Clamp | 3C TEST | CCC 100 | CCC 20092269 | 2025-11-14 |
| CCS | 3C TEST | V4.2.7 | ES027000120015 | / |
| Surge | | | | |
| Surge simulator | 3C TEST | CWS 600CT | ES058000920005 | 2025-11-14 |
| Three phases CDN | 3C TEST | SPN 3832T | ES0911910 | 2025-11-14 |
| CDN for unshielded symmetrical high-speed Telecom cable | 3C TEST | CDN405T8A | ES064001220010 | 2025-11-14 |
| CDN for Telecom cable | 3C TEST | CDN405M40-5 | ES1071910 | 2025-11-14 |
| CWS | 3C TEST | V1.0.5.2 | ES058000920005 | / |
| Radio-frequency,Continuous conducted disturbance (CS) | | | | |
| Conducted Immunity Test System | 3C TEST | CST 1075 | ES096000120008 | 2025-11-14 |
| 6dB Attenuator | 3C TEST | DTC75-6 | ES095000120006 | 2025-11-14 |
| Single phase CDN | 3C TEST | CDN M2M3 | ES064002620007 | 2025-11-14 |
| Three phases CDN | 3C TEST | CDN M5-16 | ES064003320004 | 2025-11-14 |
| Calibration Set | 3C TEST | CDN 100KIT | ES064002820016 | 2025-11-14 |
| Calibration Set | 3C TEST | EM CL100KIT | EM C20032816 | 2025-11-14 |

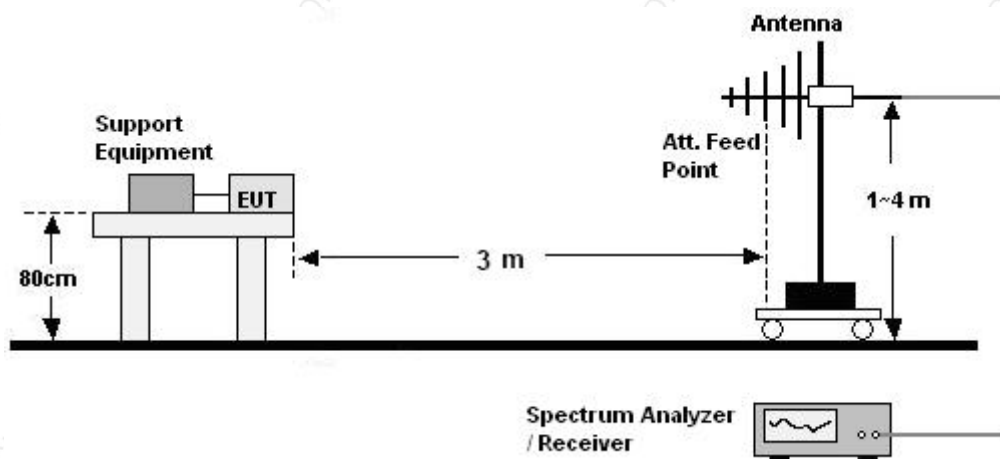


| | | | | |
|---|---------|------------|----------------|------------|
| EM-Clamp | 3C TEST | EM CL100 | EM C20032811 | 2025-11-14 |
| EMC-s | SKET | V1.4.0.54 | / | / |
| Power Frequency Magnetic Field (PFMF) | | | | |
| PFMF simulator | 3C TEST | MFS 400 | ES045000720001 | 2025-11-14 |
| Transformer | 3C TEST | MFT 400 | ES046000220003 | 2025-11-14 |
| Magnetic field antenna | 3C TEST | TCXS111 | TCXS20060910 | 2025-11-14 |
| CWS | 3C TEST | V4.2.7 | ES045000720001 | / |
| Voltage dips & Voltage interruptions | | | | |
| Power failure simulator | 3C TEST | PFS 2216SD | ES049001220003 | 2025-11-14 |
| CCS | 3C TEST | V4.2.8 | ES049001220003 | / |



4- RADIATED DISTURBANCE MEASUREMENT

4.1 BLOCK DIAGRAM OF TEST SETUP



4.2 LIMITS

| Frequency (MHz) | Quasi-peak Limits at 3m dB(μ V/m) |
|-----------------|--|
| 30-230 | 50 |
| 230-1000 | 57 |

NOTE: The lower limit shall apply at the transition frequencies.

4.3 TEST PROCEDURE

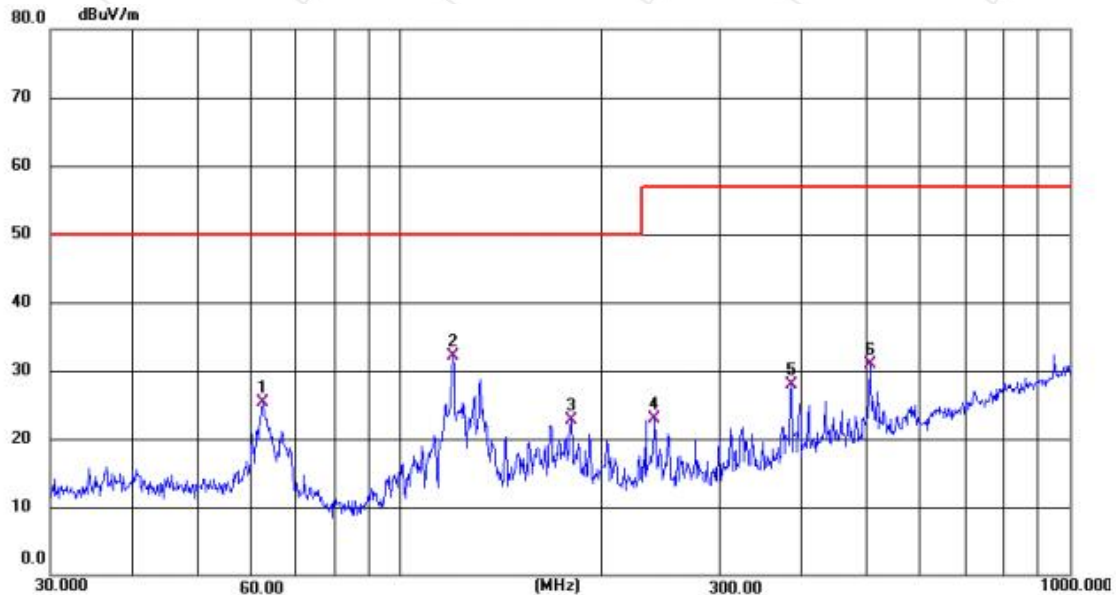
- The Product was placed on the non-conductive turntable 0.8/0.1 m above the ground at a chamber.
- Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 120 kHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
- For each frequency whose maximum record was higher or close to limit, measure its QP value: vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the height and degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to QP Detector and specified bandwidth with Maximum Hold Mode, and record the maximum value



4.4 TEST RESULTS AND DATA

EUT: Stepper Servo Drives
M/N: T60S
Test Mode: Mode 1:Power On
Test Voltage: DC 48V
Temperature: 24℃
Humidity: 60%
Atmosphere pressure: 101Kpa
Test Results Pass

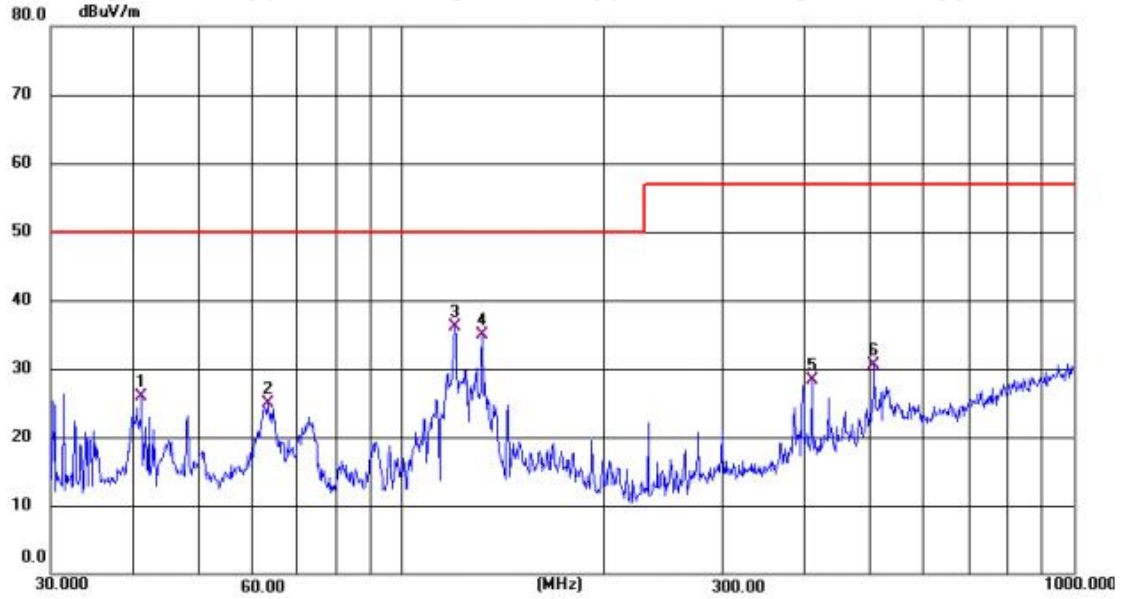
Polarization:Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 62.5409 | 41.28 | -15.97 | 25.31 | 50.00 | -24.69 | QP |
| 2 * | 120.0659 | 49.24 | -17.14 | 32.10 | 50.00 | -17.90 | QP |
| 3 | 180.0164 | 39.99 | -17.20 | 22.79 | 50.00 | -27.21 | QP |
| 4 | 240.4084 | 40.32 | -17.40 | 22.92 | 57.00 | -34.08 | QP |
| 5 | 383.9318 | 40.85 | -12.87 | 27.98 | 57.00 | -29.02 | QP |
| 6 | 503.8220 | 41.60 | -10.79 | 30.81 | 57.00 | -26.19 | QP |



Polarization: Vertical



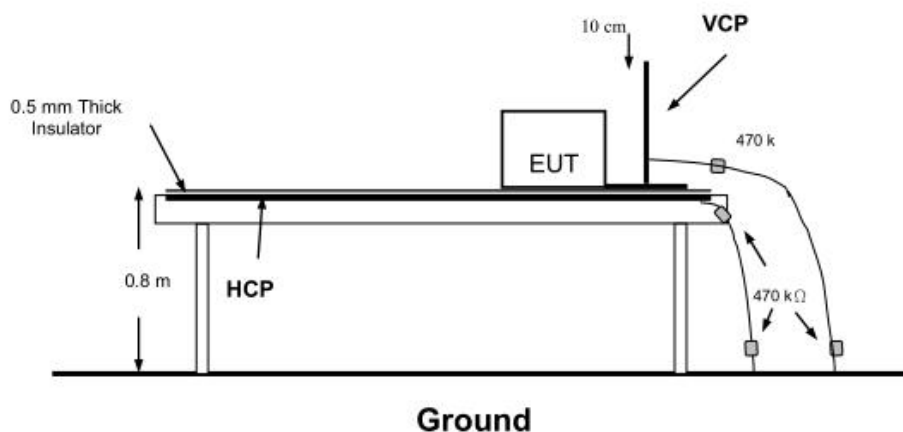
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 41.0600 | 40.28 | -14.35 | 25.93 | 50.00 | -24.07 | QP |
| 2 | 63.3132 | 41.32 | -16.42 | 24.90 | 50.00 | -25.10 | QP |
| 3 * | 120.0659 | 53.20 | -17.14 | 36.06 | 50.00 | -13.94 | QP |
| 4 | 131.9889 | 51.06 | -16.15 | 34.91 | 50.00 | -15.09 | QP |
| 5 | 408.2295 | 40.58 | -12.25 | 28.33 | 57.00 | -28.67 | QP |
| 6 | 504.7062 | 41.41 | -10.89 | 30.52 | 57.00 | -26.48 | QP |



5 - IMMUNITY TEST

5.1 ELECTROSTATIC DISCHARGE IMMUNITY TEST

5.1.1 Block Diagram Of Test Setup



5.1.2 Test Specification

| | |
|----------------------------|-------------------------------------|
| Basic Standard | : IEC 61000-4-2:2008 |
| Test Port | : Enclosure port |
| Discharge Impedance | : 330 ohm / 150 pF |
| Discharge Mode | : Single Discharge |
| Discharge Period | : one second between each discharge |

5.1.3 Test Procedure

5.1.3.1. 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.

5.1.3.2. Contact Discharge

All the procedure shall be same as Section 5.1.3.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

5.1.3.3. 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.

5.1.3.4. 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.



5.1.4 Test Results

| Electrostatic Discharge | |
|-------------------------|----------------------|
| Basic Standard: | IEC 61000-4-2:2008 |
| EUT: | Stepper Servo Drives |
| M/N: | T60S |
| Test Mode: | Mode 1:Power On |
| Test Voltage: | DC 48V |
| Temperature: | 25°C |
| Humidity: | 55% |
| Atmosphere pressure: | 101Kpa |

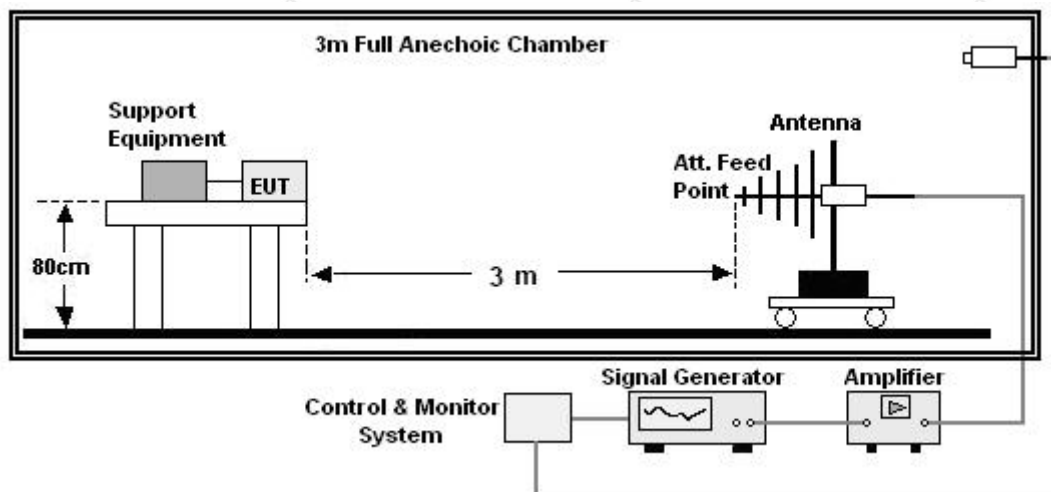
| Discharge Method | Discharge Position | Voltage (\pm kV) | Min. No. of Discharge per polarity (Each Point) | Performance Criterion | Test Results |
|-------------------|---|---------------------|---|-----------------------|--------------|
| Contact Discharge | Conductive Surfaces | 4 | 10 | B | Pass |
| | Indirect Discharge HCP | 4 | 10 | B | Pass |
| | Indirect Discharge VCP | 4 | 10 | B | Pass |
| Air Discharge | Slots, Apertures, and Insulating Surfaces | 8 | 10 | B | Pass |



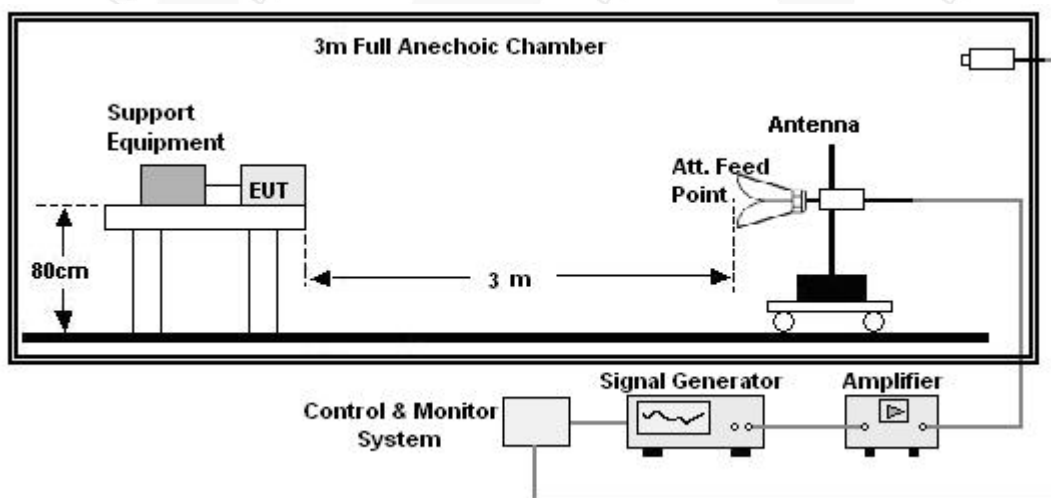
5.2 RADIO FREQUENCY ELECTROMAGNETIC FIELDS

5.2.1 Block Diagram of Test Setup

80-1000MHz:



1000-6000MHz:





5.2.2 Test Specification

| | |
|----------------|-------------------------|
| Basic Standard | : IEC 61000-4-3:2020 |
| Test Port | : Enclosure port |
| Step Size | : 1% |
| Modulation | : 1kHz, 80% AM |
| Dwell Time | : 1 second |
| Polarization | : Horizontal & Vertical |

5.2.3 Test Procedure

- The testing was performed in a fully-anechoic chamber. The transmit antenna was located at a distance of 3 meters from the Product.
- The frequency range is swept from 80MHz to 1000MHz, with the signal 80% amplitude modulated with a 1 kHz sine wave. The rate of sweep did not exceed 1.5×10^{-3} decade/s. Where the frequency range is swept incrementally, the step size was 1%.
- The test was performed with the Product exposed to both vertically and horizontally polarized fields on each of the four sides.

5.2.4 Test Results

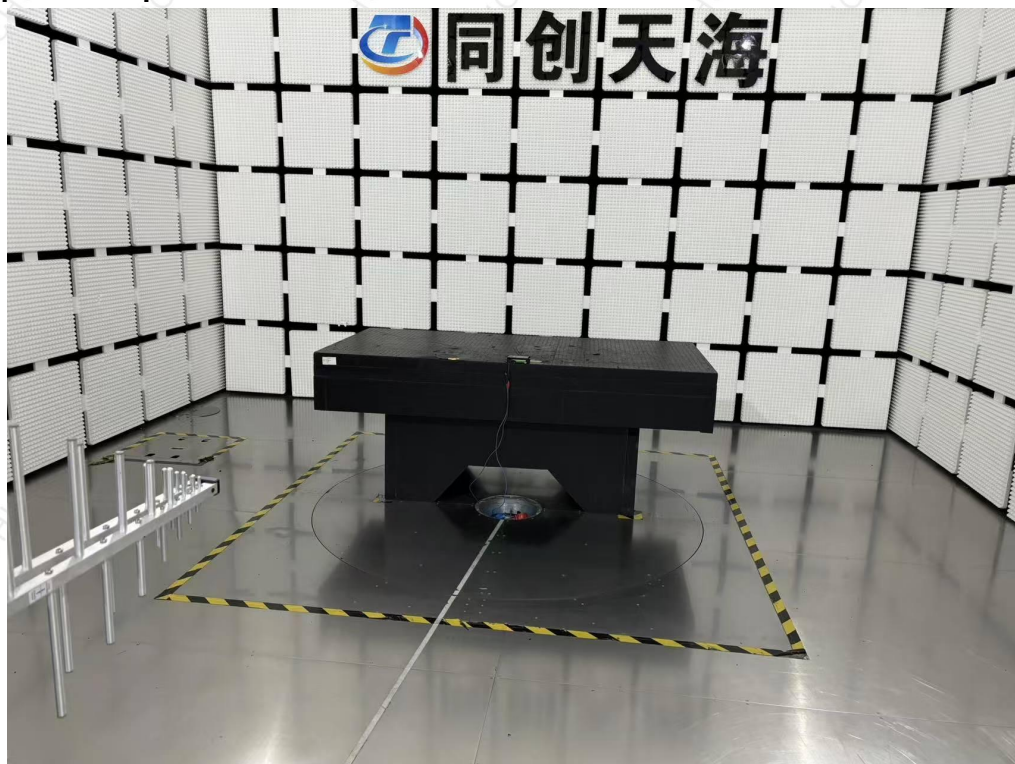
| Radio frequency electromagnetic fields | |
|--|----------------------|
| Basic Standard: | IEC 61000-4-3:2020 |
| EUT: | Stepper Servo Drives |
| M/N: | T60S |
| Test Mode: | Mode 1:Power On |
| Test Voltage: | DC 48V |
| Temperature: | 26°C |
| Humidity: | 55% |
| Atmosphere pressure: | 101Kpa |

| Frequency (MHz) | Position | Field Strength (V/m) | Performance Criterion | Test Results |
|-----------------|--------------------------|----------------------|-----------------------|--------------|
| 80 - 1000 | Front, Right, Back, Left | 10 | A | Pass |
| 1400-6000 | Front, Right, Back, Left | 3 | A | Pass |



APPENDIX A - TEST SETUP PHOTOGRAPHS

Photograph 1 :Setup for Radiated Emission

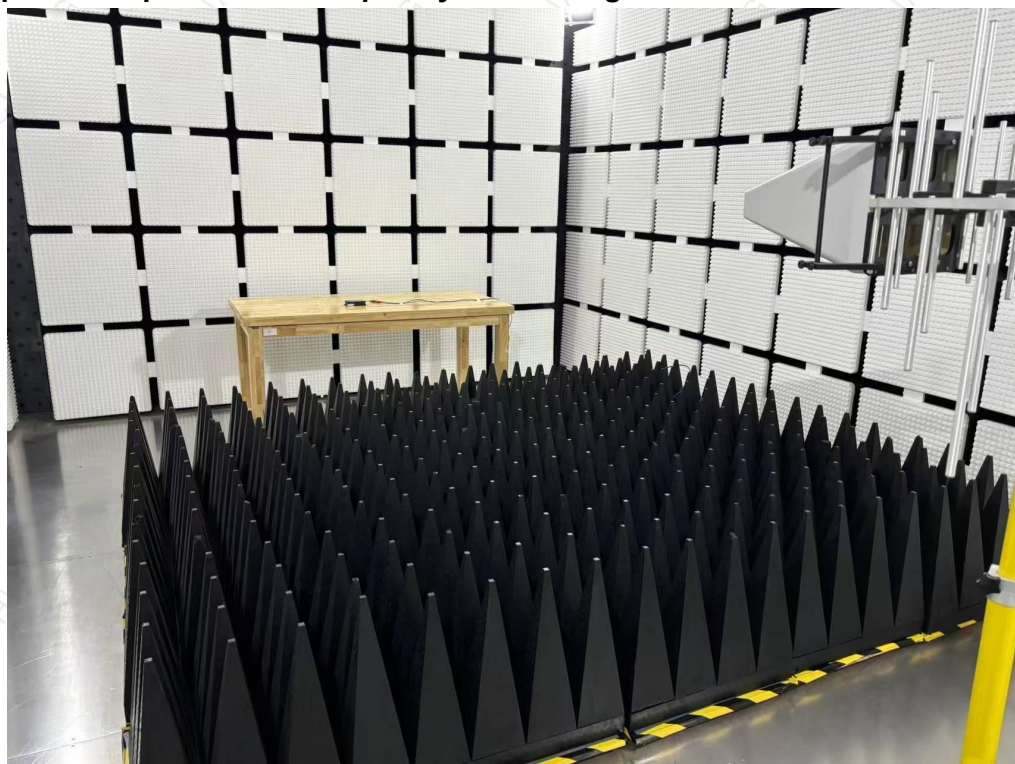


Photograph 2 :Setup for Electrostatic Discharge



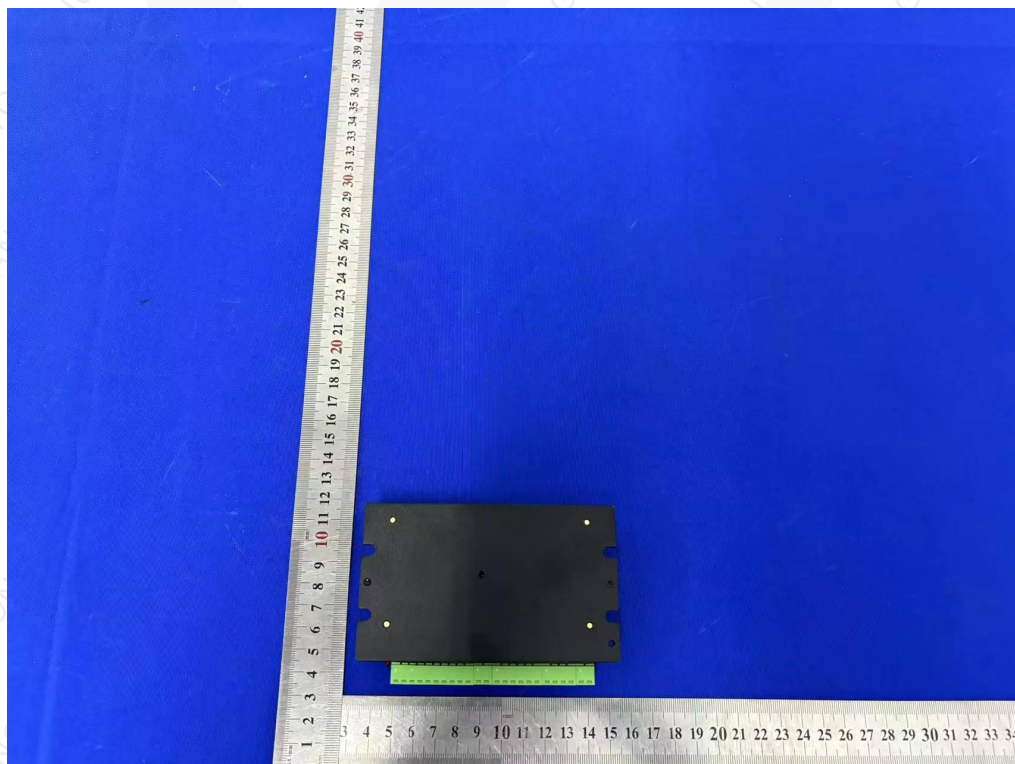
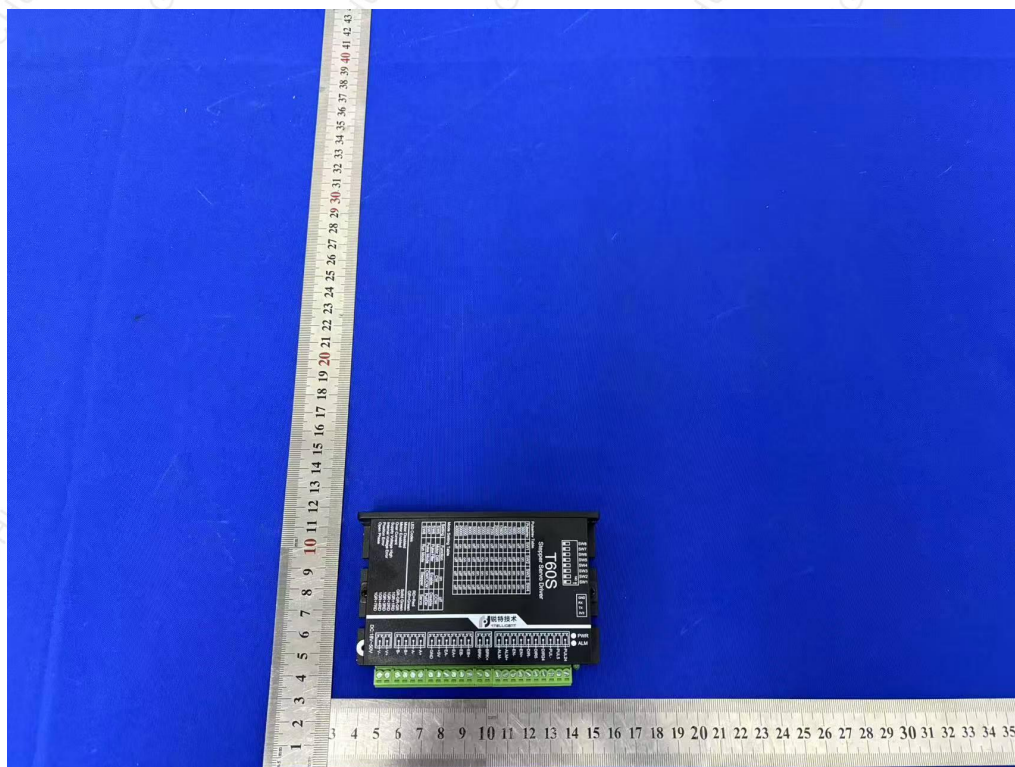


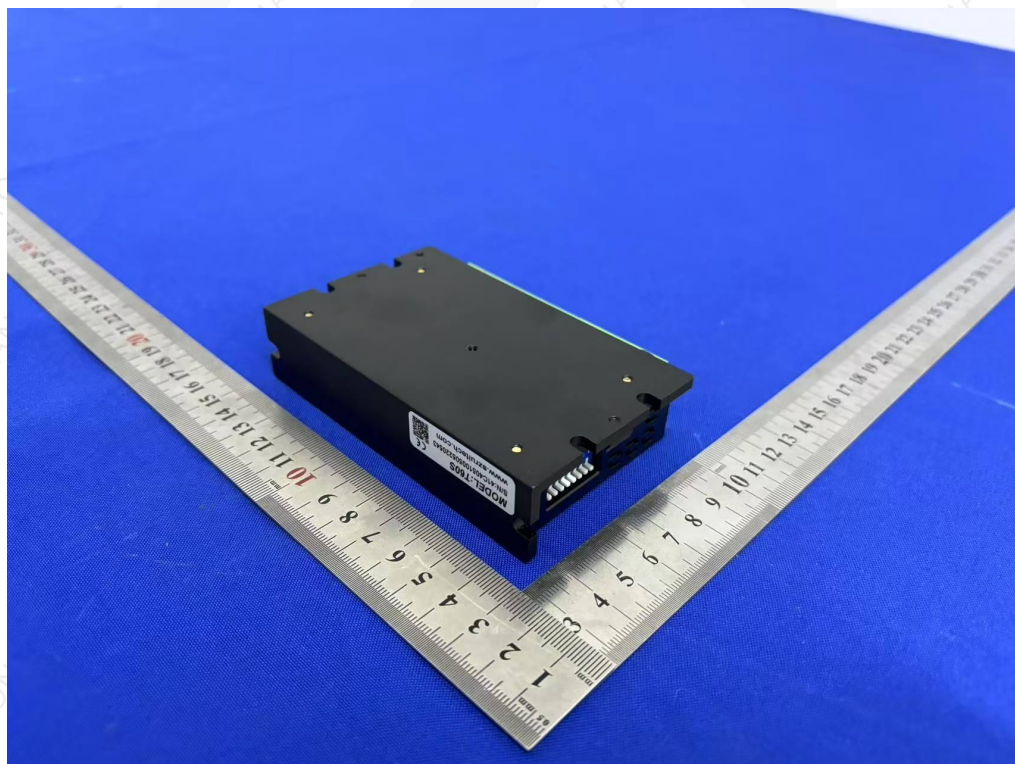
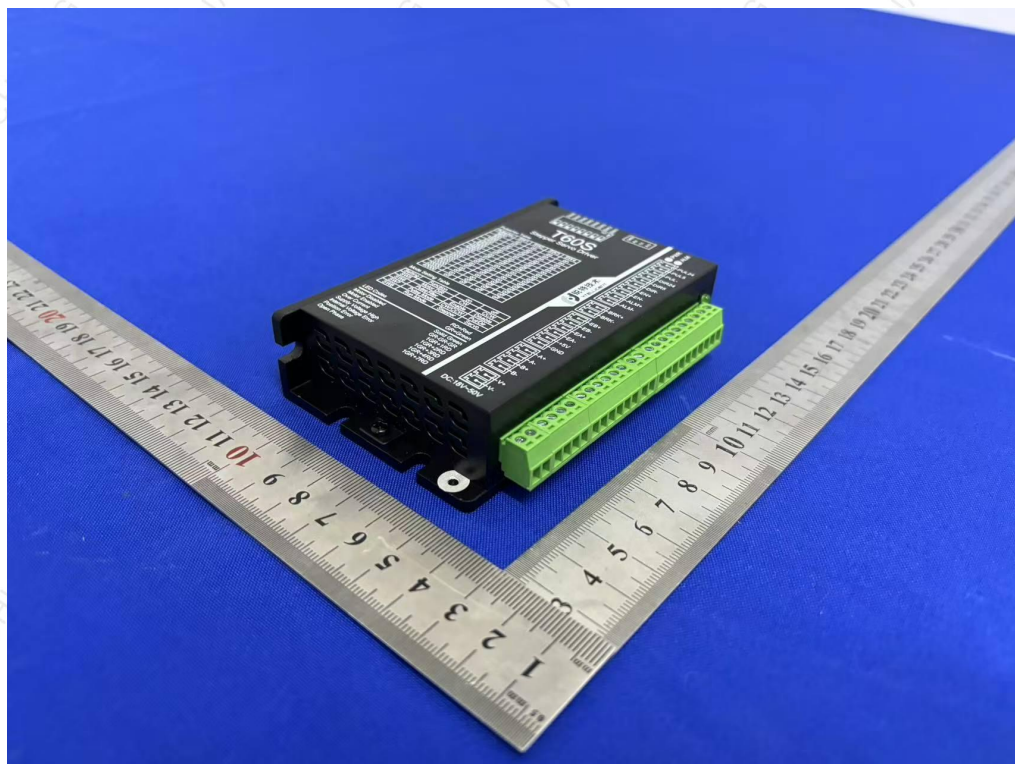
Photograph 3 :Setup for Radio Frequency Electromagnetic Fields





APPENDIX B - EUT PHOTOGRAPHS





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