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APPLICATION FOR VERIFICATION On Behalf of InnoVISION Multimedia Limited

Inno3D 3D Printer S1 Model No.: I3DPS1BK

FCC ID: 2AD8V-I3DP-S100

Prepared for : InnoVISION Multimedia Limited

Address : Unit A&B, 21/F., Mai Wah Ind. Bldg., 1-7 Wah Sing Street,

Kwai Chung, Hong Kong

Prepared by : Accurate Technology Co., Ltd.

Address : F1, Bldg. A&D, Changyuan New Material Port, Keyuan

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Report No. : ATE20160778

Date of Test : Apr 29, 2016-May 12, 2016

Date of Report : May 12, 2016

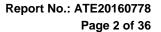




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Test Report Declaration

Applicant : InnoVISION Multimedia Limited

Manufacturer : InnoVISION Multimedia Limited

EUT Description : Inno3D 3D Printer S1

(A) MODEL NO.: I3DPS1BK

(B) SERIAL NO.: N/A

(C) POWER SUPPLY: AC 100-240V~50/60Hz 1.8A

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B ANSI C63.4: 2014

The device described above is tested by Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both radiated and conducted emissions. The measurement results are contained in this test report and Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Accurate Technology Co., Ltd.

| Date of Test : | Apr 29, 2016-May 12, 2016 |
|--------------------------------|---------------------------|
| Date of Report : | May 12, 2016 |
| Prepared by : | Mark Cher |
| | (Mark Chen, Engineer) |
| Approved & Authorized Signer : | Lemil |
| | (Sean Liu, Manager) |



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1. TEST RESULTS SUMMARY

| Test Items | Test Standard | Test Results |
|-------------------------------|---------------|--------------|
| Power Line Conducted Emission | FCC Part 15B | Pass |
| Radiated Emission | FCC Part 15B | Pass |



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2. GENERAL INFORMATION

2.1.Product of Device (EUT)

EUT : Inno3D 3D Printer S1

Model Number : I3DPS1BK
Power Supply : AC 120V/60Hz

Adapter : Model: FSP120-AAAN2

Input: 100-240V~,1.8A, 50-60Hz

Output: 24V --- 5A

Remark(s) : The EUT highest operating frequency provided by

Manufacturer is 75MHz, the radiated emission

measurement shall be made up to 1GHz

Trade Mark : N/A

Applicant : InnoVISION Multimedia Limited

Address : Unit A&B, 21/F., Mai Wah Ind. Bldg., 1-7 Wah Sing Street,

Kwai Chung, Hong Kong

Manufacturer : InnoVISION Multimedia Limited

Address : Unit A&B, 21/F., Mai Wah Ind. Bldg., 1-7 Wah Sing Street,

Kwai Chung, Hong Kong

Date of sample

received

: Apr 29, 2016

Date of Test : Apr 29, 2016-May 12, 2016

2.2. Accessory and Auxiliary Equipment

Notebook PC : Manufacturer: LENOVO

M/N: 4290-RT8

S/N: R9-FW93G 11/08



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2.3. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen, May 10, 2004

Listed by FCC

The Registration Number is 253065

Listed by FCC

The Registration Number is 752051

Listed by Industry Canada

The Registration Number is 5077A-1

Listed by Industry Canada

The Registration Number is 5077A-2

Accredited by China National Accreditation Committee for

Laboratories

The Certificate Registration Number is L3193

Name of Firm : Accurate Technology Co., Ltd.

Site Location : F1, Bldg. A&D, Changyuan New Material Port, Keyuan

Rd., Science & Industry Park, Nanshan District, Shenzhen

518057, P.R. China

2.4. Measurement Uncertainty

Conducted emission expanded uncertainty : U=2.23dB, k=2

Power disturbance expanded uncertainty : U=2.92dB, k=2 Radiated emission expanded uncertainty : U=3.08dB, k=2

(9kHz-30MHz)

Radiated emission expanded uncertainty : U=4.42dB, k=2

(30MHz-1000MHz)

Radiated emission expanded uncertainty U=4.06dB, k=2

(Above 1GHz)





3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. The Equipments Used to Measure Conducted Disturbance

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|---|-----------------|--------------|----------------|-------------|------------------|
| 1. | Test Receiver | Rohde & Schwarz | ESCS30 | 100307 | Jan.9, 2016 | 1 Year |
| 2. | Test Receiver | Rohde & Schwarz | ESPI | 100396/003 | Jan.9, 2016 | 1 Year |
| 3. | Test Receiver | Rohde & Schwarz | ESPI | 101526/003 | Jan.9, 2016 | 1 Year |
| 4. | Test Receiver | Rohde & Schwarz | ESR | 101817 | Jan.9, 2016 | 1 Year |
| 5. | L.I.S.N. | Schwarzbeck | NLSK8126 | 8126431 | Jan.9, 2016 | 1 Year |
| 6. | L.I.S.N. | Rohde & Schwarz | ESH3-Z5 | 100305 | Jan.9, 2016 | 1 Year |
| 7. | L.I.S.N. | Rohde & Schwarz | ESH3-Z5 | 100310 | Jan.9, 2016 | 1 Year |
| 8. | L.I.S.N. | Rohde & Schwarz | ESH3-Z6 | 100132 | Jan.9, 2016 | 1 Year |
| 9. | L.I.S.N. | Rohde & Schwarz | ESH3-Z6 | 100979 | Jan.9, 2016 | 1 Year |
| 10. | Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100305 | Jan.9, 2016 | 1 Year |
| 11. | Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100312 | Jan.9, 2016 | 1 Year |
| 12. | Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100815 | Jan.9, 2016 | 1 Year |
| 13. | 50Ω Coaxial Switch | Anritsu Corp | MP59B | 620028393 6 | Jan.9, 2016 | 1 Year |
| 14. | 50Ω Coaxial Switch | Anritsu Corp | MP59B | 620028393 3 | Jan.9, 2016 | 1 Year |
| 15. | 50Ω Coaxial Switch | Anritsu Corp | MP59B | 620050647 4 | Jan.9, 2016 | 1 Year |
| 16. | VOLTAGE PROBE | Schwarzbeck | TK9416 | N/A | Jan.9, 2016 | 1 Year |
| 17. | RF CURRENT PROBE | Rohde & Schwarz | EZ-17 | 100048 | Jan.9, 2016 | 1 Year |
| 18. | 8-Wire Impedance Stabilisation Network | Schwarzbeck | CAT5 8158 | 8158-0035 | Jan.9, 2016 | 1 Year |
| 19. | RF Coaxial Cable | SUHNER | N-2m | No.2 | Jan.9, 2016 | 1 Year |
| 20. | RF Coaxial Cable | SUHNER | N-2m | No.3 | Jan.9, 2016 | 1 Year |
| 21. | RF Coaxial Cable | SUHNER | N-2m | No.14 | Jan.9, 2016 | 1 Year |





3.2. The Equipments Used to Measure Radiated Disturbance

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------------------------|-------------------------|--------------------------|------------|--------------|------------------|
| 1. | Spectrum Analyzer | Agilent | E7405A | MY45115511 | Jan.9, 2016 | 1 Year |
| 2. | | | | 101495 | Jan.9, 2016 | 1 Year |
| 3. | Test Receiver | | ESCS30 | 100307 | Jan.9, 2016 | 1 Year |
| 4. | Test Receiver | Rohde& Schwarz | ESPI | 100396/003 | Jan.9, 2016 | 1 Year |
| 5. | Test Receiver | Rohde& Schwarz | ESPI | 101526/003 | Jan.9, 2016 | 1 Year |
| 6. | Test Receiver | Rohde& Schwarz | ESR | 101817 | Jan.9, 2016 | 1 Year |
| 7. | Bilog Antenna | Schwarzbeck | VULB9163 | 9163-194 | Jan.14, 2016 | 1 Year |
| 8. | Bilog Antenna | Schwarzbeck | VULB9163 | 9163-323 | Jan.14, 2016 | 1 Year |
| 9. | LogPer.Antenna | Schwarzbeck | VUSLP 9111B | 9111B-074 | Jan.14, 2016 | 1 Year |
| 10. | Biconical Broad Band Antenna | Schwarzbeck | VHBB 9124+BBA 9106 | 9124-617 | Jan.14, 2016 | 1 Year |
| 11. | Loop Antenna | Schwarzbeck | FMZB1516 | 1516131 | Jan.14, 2016 | 1 Year |
| 12. | Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-655 | Jan.14, 2016 | 1 Year |
| 13. | Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-1067 | Jan.14, 2016 | 1 Year |
| 14. | Vertical Active Monopole Antenna | Schwarzbeck | VAMP 9243 | 9243-370 | Jan.14, 2016 | 1 Year |
| 15. | RF Switching Unit+PreAMP | Compliance Direction | RSU-M2 | 38322 | Jan.9, 2016 | 1 Year |
| 16. | Pre-Amplifier | Agilent | 8447D | 294A10619 | Jan.9, 2016 | 1 Year |
| 17. | Pre-Amplifier | Rohde&Schwarz | CBLU11835 40-01 | 3791 | Jan.9, 2016 | 1 Year |
| 18. | 50 Coaxial Switch | Anritsu Corp | MP59B | 6200237248 | Jan.9, 2016 | 1 Year |
| 19. | 50 Coaxial Switch | Anritsu Corp | MP59B | 6200506474 | Jan.9, 2016 | 1 Year |
| 20. | RF Coaxial Cable | Schwarzbeck | N-5m | No.1 | Jan.9, 2016 | 1 Year |
| 21. | RF Coaxial Cable | Schwarzbeck | N-1m | No.6 | Jan.9, 2016 | 1 Year |
| 22. | RF Coaxial Cable | Schwarzbeck | N-1m | No.7 | Jan.9, 2016 | 1 Year |
| 23. | RF Coaxial Cable | SUHNER | N-3m | No.8 | Jan.9, 2016 | 1 Year |
| 24. | RF Coaxial Cable | RESENBERGER | N-3.5m | No.9 | Jan.9, 2016 | 1 Year |
| 25. | RF Coaxial Cable | SUHNER | N-6m | No.10 | Jan.9, 2016 | 1 Year |
| 26. | RF Coaxial Cable | RESENBERGER | N-12m | No.11 | Jan.9, 2016 | 1 Year |
| 27. | RF Coaxial Cable | RESENBERGER | N-0.5m | No.12 | Jan.9, 2016 | 1 Year |
| 28. | RF Coaxial Cable | SUHNER | N-2m | No.13 | Jan.9, 2016 | 1 Year |
| 29. | RF Coaxial Cable | SUHNER | N-0.5m | No.15 | Jan.9, 2016 | 1 Year |
| 30. | RF Coaxial Cable | SUHNER | N-2m | No.16 | Jan.9, 2016 | 1 Year |
| 31. | RF Coaxial Cable | RESENBERGER | N-6m | No.17 | Jan.9, 2016 | 1 Year |

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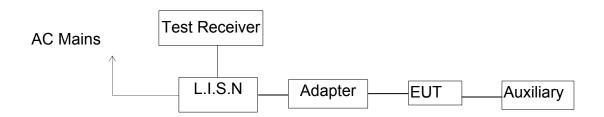


4. POWER LINE CONDUCTED MEASUREMENT

4.1.Block Diagram of Test Setup

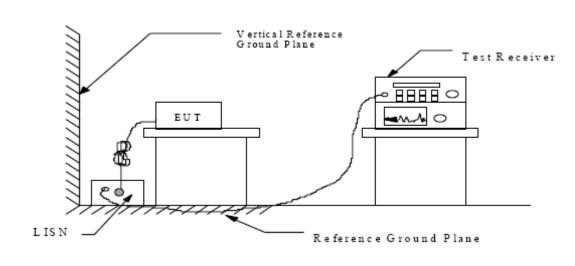
4.1.1.Block diagram of connection between the EUT and simulators

4.1.1.1.For SD Card Printer/USB Printer



(EUT: Inno3D 3D Printer S1)

4.1.2. Shielding Room Test Setup Diagram



(EUT: Inno3D 3D Printer S1)

4.2. The Emission Limit

4.2.1.Conducted Emission Measurement Limits According to Section 15.107(a)

| Frequency | Limit d | $B(\mu V)$ |
|--------------|------------------|---------------|
| (MHz) | Quasi-peak Level | Average Level |
| 0.15 - 0.50 | 66.0 - 56.0 * | 56.0 – 46.0 * |
| 0.50 - 5.00 | 56.0 | 46.0 |
| 5.00 - 30.00 | 60.0 | 50.0 |

^{*} Decreases with the logarithm of the frequency.



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4.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

4.3.1.Inno3D 3D Printer S1 (EUT)

Model Number: I3DPS1BK

Serial Number: N/A

Manufacturer: InnoVISION Multimedia Limited

4.4. Operating Condition of EUT

- 4.4.1. Setup the EUT and simulator as shown as Section 3.2.
- 4.4.2. Turn on the power of all equipment.
- 4.4.3.Let the EUT work in test mode and measure it.

4.5. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 500hm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2014 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

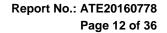
The frequency range from 150kHz to 30MHz is checked.



4.6. Power Line Conducted Emission Measurement Results

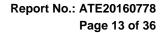
PASS.

| est Mode: SD Card | d Printe | r (120V/ | 60HZ) | | | | |
|-----------------------------------|-------------------------|----------------------|----------------|----------------------|----------------|----------------|-------------------|
| MEASUREMENT 1 | RESULT | : "IQOA | A007_£ | in" | | | |
| 2016-5-3 9:47 Frequency MHz | Level dBµV | | Limit dBµV | Margin dB | Detector | Line | PE |
| 0.398000 0.948000 15.230000 | | | 58 56 60 | | | L1 L1 L1 | GND GND GND |
| MEASUREMENT 1 | RESULT | : "IQOA | A007_f | in2" | | | |
| 2016-5-3 9:47 Frequency MHz | | Transd dB | | | Detector | Line | PE |
| 0.398000 0.944000 15.171500 | | | 46 | 20.4 16.1 19.2 | AV | L1 L1 L1 | GND GND GND |
| MEASUREMENT | RESULT | ': "IQO | AA008_: | fin" | | | |
| 2016-5-3 9:52 Frequency MHz | | | | | Detector | Line | PE |
| 0.402000 0.854000 1.264000 | 37.90 38.10 33.50 | 11.3 11.6 11.6 | 58 56 56 | 19.9 17.9 22.5 | QP QP QP | N N N | GND GND GND |
| MEASUREMENT | RESULT | ': "IQO₽ | AA008_: | fin2" | | | |
| 2016-5-3 9:52 Frequency MHz | Level dBµV | | | | Detector | Line | PE |
| 0.396000 0.856000 1.254000 | 36.70 34.50 29.50 | 11.3 11.6 11.6 | 46 | | AV | N N N | GND GND GND |





| t Mode: USB Pri | nter(120 |)V/60HZ | <u>(</u>) | | | | |
|-----------------------------------|-------------------------|----------------------|----------------|----------------------|----------------|----------------|-------------------|
| MEASUREMENT I | RESULT | : "IQOA | A006_£ | in" | | | |
| 2016-5-3 9:44 Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
| 0.396000 0.938000 15.432500 | | | 56 | 19.9 21.3 23.2 | QP | L1 L1 L1 | GND GND GND |
| MEASUREMENT I | RESULT. | : "IQOA | A006_£ | in2" | | | |
| 2016-5-3 9:44 Frequency MHz | Level dBµV | | Limit dBµV | _ | Detector | Line | PE |
| 0.396000 0.856000 0.942000 | | 11.3 11.6 11.6 | | 12.0 18.2 17.3 | AV | L1 L1 L1 | GND GND GND |
| MEASUREMENT | RESULT | : "IQOA | A005_: | fin" | | | |
| 2016-5-3 9:39 Frequency MHz | | | Limit dBµV | | Detector | Line | PE |
| 0.386000 0.954000 1.156000 | 38.70 35.80 35.50 | 11.2 11.6 11.6 | 58 56 56 | 19.4 20.2 20.5 | QP QP QP | N N N | GND GND GND |
| MEASUREMENT | | : "IQOA | AA005_: | fin2" | | | |
| 2016-5-3 9:39 Frequency MHz | | | Limit dBµV | | Detector | Line | PE |
| 0.386000 0.856000 0.942000 | 34.50 30.70 32.50 | 11.2 11.6 11.6 | 48 46 46 | | AV | N N N | GND GND GND |





| t Mode: SD Car | d Printer | (240V/6 | 60HZ) | | | | |
|------------------------------------|-------------------------|----------------------|----------------|----------------------|----------------|----------------|-------------------|
| MEASUREMENT | RESULT | "IQOA | A011_f | in" | | | |
| 2016-5-3 10:00 Frequency MHz | | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
| 0.820000 1.306000 1.378000 | 38.00 | 11.6 | 56 56 56 | 18.0 | QP | L1 L1 L1 | GND GND GND |
| MEASUREMENT | RESULT: | : "IQOA | A011_f | in2" | | | |
| 2016-5-3 10:00 Frequency MHz | | | | Margin dB | Detector | Line | PE |
| 0.818000 0.894000 1.304000 | 33.70 | | 46 46 46 | 12.3 | AV | L1 L1 L1 | GND GND GND |
| MEASUREMENT | RESULT | ': "IQO | AA012_ | fin" | | | |
| 2016-5-3 10:1 Frequency MHz | Level | | | | Detector | Line | e PE |
| 0.812000 1.312000 1.786000 | 38.00 39.00 39.10 | 11.6 11.6 11.7 | 56 56 56 | 18.0 17.0 16.9 | QP QP QP | N N N | GND GND GND |
| MEASUREMENT | | ': "IQO2 | AA012_ | fin2" | | | |
| 2016-5-3 10:1 Frequency MHz | Level | Transd dB | | _ | Detector | Line | PE |
| 0.486000 0.818000 1.302000 | | | 46 | | AV AV AV | N N N | GND GND GND |



| t Mode: USB Pri | inter (24 | 0V/60H2 | <u>Z</u>) | | | | |
|------------------------------------|-------------------------|----------------------|----------------|----------------------|----------|----------------|-------------------|
| MEASUREMENT | RESULT: | "IQOA | A010_f | in" | | | |
| 2016-5-3 10:03 Frequency MHz | l Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
| 0.660000 0.818000 1.380000 | 37.80 | 11.5 11.6 11.6 | 56 56 56 | 24.3 18.2 19.8 | QР | L1 L1 L1 | GND GND GND |
| MEASUREMENT | RESULT: | : "IQOA | A010_f | in2" | | | |
| 2016-5-3 10:03 Frequency MHz | l Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
| 0.816000 1.300000 1.380000 | | 11.6 11.6 11.6 | | 12.3 14.7 14.9 | AV | L1 L1 L1 | GND GND GND |
| MEASUREMENT | RESULT | : "IQOA | A009_1 | in" | | | |
| 2016-5-3 9:58 Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
| 0.816000 1.222000 1.380000 | 40.00 39.00 38.80 | 11.6 11.6 11.6 | 56 56 56 | 16.0 17.0 17.2 | | N N N | GND GND GND |
| MEASUREMENT | RESULT | : "IQOA | A009_1 | fin2" | | | |
| 2016-5-3 9:58 Frequency MHz | | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
| 0.816000 1.226000 1.304000 | 35.20 32.10 34.30 | 11.6 11.6 11.6 | 46 46 46 | | AV | N N N | GND GND GND |

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are shown in the following pages.





CONDUCTED EMISSION STANDARD FCC PART15B

EUT: Inno3D 3D Printer S1 M/N:I3DPS1BK

Manufacturer: InnoVISION Multimedia Limited

Operating Condition: SD Card Printer Test Site: 2#Shielding Room

Operator: star

Test Specification: L 120V/60Hz

Comment: Report NO.:ATE20160778 Start of Test: 2016-5-3 / 9:46:06

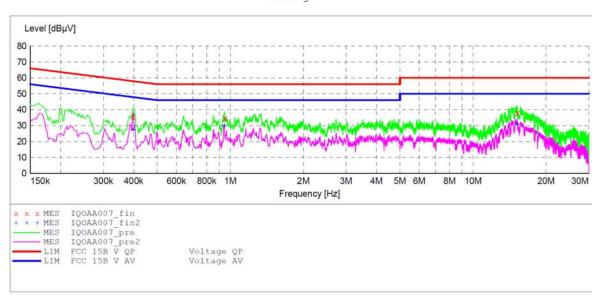
SCAN TABLE: "V 150K-30MHz fin"

Short Description: __SUB_STD_VTERM2 1.70

Start Stop Step Detector Meas. IF Transducer Frequency Frequency Width Time Bandw.

150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)

Average



MEASUREMENT RESULT: "IQOAA007 fin"

| 2016-5-3 Freque | | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|--------------------|-----|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.398 | 000 | 35.60 | 11.3 | 58 | 22.3 | QP | L1 | GND |
| 0.948 | 000 | 34.60 | 11.6 | 56 | 21.4 | QP | L1 | GND |
| 15.230 | 000 | 37.80 | 11.9 | 60 | 22.2 | QP | L1 | GND |

MEASUREMENT RESULT: "IQOAA007 fin2"

| 2016 | -5-3 | 9:47 | | | | | | | |
|------|--------|------|-------|--------|-------|--------|----------|------|-----|
| F | reque' | ncy | Level | Transd | Limit | Margin | Detector | Line | PE |
| | | MHz | dBµV | dB | dBµV | dB | | | |
| | 0.398 | 000 | 27.50 | 11.3 | 48 | 20.4 | AV | L1 | GND |
| | 0.944 | 000 | 29.90 | 11.6 | 46 | 16.1 | AV | L1 | GND |
| 1 | 5.171 | 500 | 30.80 | 11.9 | 50 | 19.2 | AV | L1 | GND |





CONDUCTED EMISSION STANDARD FCC PART15B

Inno3D 3D Printer S1 M/N:I3DPS1BK

Manufacturer: InnoVISION Multimedia Limited

Operating Condition: SD Card Printer 2#Shielding Room Test Site:

Operator: star

Test Specification: N 120V/60Hz

Report NO.:ATE20160778 Comment: Start of Test: 2016-5-3 / 9:51:45

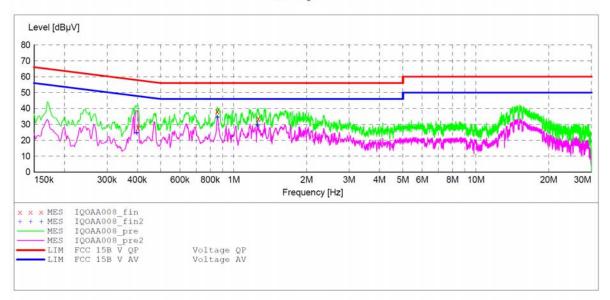
SCAN TABLE: "V 150K-30MHz fin"

_SUB_STD_VTERM2 1.70 Short Description:

Detector Meas. IF
Time Bandw. Start Stop Step Transducer

Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)

Average



MEASUREMENT RESULT: "IQOAA008 fin"

| 2016-5-3 9:52 Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|-----------------------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.402000 | 37.90 | 11.3 | 58 | 19.9 | QP | N | GND |
| 0.854000 | 38.10 | 11.6 | 56 | 17.9 | QP | N | GND |
| 1.264000 | 33.50 | 11.6 | 56 | 22.5 | QP | N | GND |

MEASUREMENT RESULT: "IQOAA008 fin2"

| 2016-5-3 | 9:52 | | | | | | | |
|----------|------------|---------------|--------------|---------------|--------------|----------|------|-----|
| Freque | ncy MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
| 0.396 | 000 | 36.70 | 11.3 | 48 | 11.2 | AV | N | GND |
| 0.856 | 000 | 34.50 | 11.6 | 46 | 11.5 | AV | N | GND |
| 1.254 | 000 | 29.50 | 11.6 | 46 | 16.5 | AV | N | GND |





CONDUCTED EMISSION STANDARD FCC PART15B

EUT: Inno3D 3D Printer S1 M/N:I3DPS1BK

Manufacturer: InnoVISION Multimedia Limited

Operating Condition: USB Printer Test Site: 2#Shielding Room

Operator: star

Test Specification: L 120V/60Hz

Comment: Report NO.:ATE20160778 Start of Test: 2016-5-3 / 9:44:03

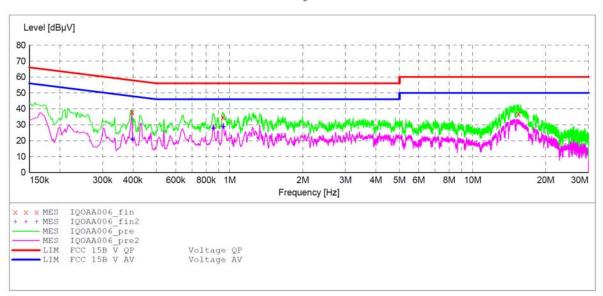
SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Stop Step Detector Meas. IF Transducer Frequency Frequency Width Time Bandw.

150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)

Average



MEASUREMENT RESULT: "IQOAA006 fin"

| 2016-5-3 9:44 Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|-----------------------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.396000 | 38.00 | 11.3 | 58 | 19.9 | QP | L1 | GND |
| 0.938000 | 34.70 | 11.6 | 56 | 21.3 | QP | L1 | GND |
| 15.432500 | 36.80 | 11.9 | 60 | 23.2 | QP | L1 | GND |

MEASUREMENT RESULT: "IQOAA006 fin2"

| Frequen | су | Level | | | Margin | Detector | Line | PE |
|---------|----------------------------------|---|--|---|--|--|---|---|
| M | Hz | dBµV | dB | dBµV | dB | | | |
| | | | | | | | | |
| 0.3960 | 00 | 35.90 | 11.3 | 48 | 12.0 | AV | L1 | GND |
| 0.8560 | 00 | 27.80 | 11.6 | 46 | 18.2 | AV | L1 | GND |
| 0.9420 | 00 | 28.70 | 11.6 | 46 | 17.3 | AV | L1 | GND |
| | Frequen M 0.3960 0.8560 | 16-5-3 9:44 Frequency MHz 0.396000 0.856000 0.942000 | Frequency Level dBµV 0.396000 35.90 0.856000 27.80 | Frequency Level Transd dBμV dB 0.396000 35.90 11.3 0.856000 27.80 11.6 | Frequency MHz Level Transd Limit dBμV dB dBμV 0.396000 35.90 11.3 48 0.856000 27.80 11.6 46 | Frequency MHz Level Transd Limit Margin dB dBμV dB dBμV dB 0.396000 35.90 11.3 48 12.0 0.856000 27.80 11.6 46 18.2 | Frequency MHz Level Transd Limit Margin Detector dBμV dB dBμV dB 0.396000 35.90 11.3 48 12.0 AV 0.856000 27.80 11.6 46 18.2 AV | Frequency MHz Level Transd Limit Margin Detector Line dBμV dB dBμV dB dB L1 |





CONDUCTED EMISSION STANDARD FCC PART15B

M/N:I3DPS1BK Inno3D 3D Printer S1

Manufacturer: InnoVISION Multimedia Limited

Operating Condition: USB Printer Test Site: 2#Shielding Room

Operator: star

Test Specification: N 120V/60Hz

Report NO.:ATE20160778 Comment: Start of Test: 2016-5-3 / 9:38:00

SCAN TABLE: "V 150K-30MHz fin"

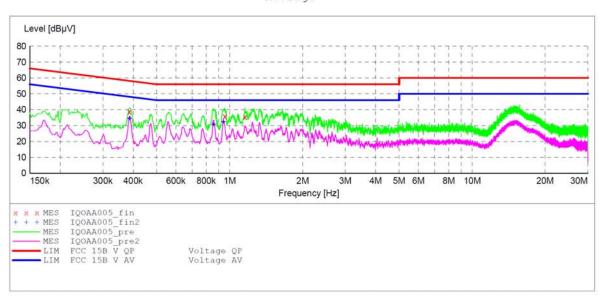
_SUB_STD_VTERM2 1.70 Short Description:

UB_STD_vib.al_
Detector Meas. IF
Time Bandw. Step Start Stop Transducer

Frequency Frequency Width

150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)

Average



MEASUREMENT RESULT: "IQOAA005 fin"

| 2016-5-3 9:39 Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|-----------------------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.386000 | 38.70 | 11.2 | 58 | 19.4 | QP | N | GND |
| 0.954000 | 35.80 | 11.6 | 56 | 20.2 | QP | N | GND |
| 1.156000 | 35.50 | 11.6 | 56 | 20.5 | QP | N | GND |

MEASUREMENT RESULT: "IQOAA005_fin2"

| 2 | 2016-5-3 | 9:39 | | | | | | | |
|---|----------|------|-------|--------|-------|--------|----------|------|-----|
| | Frequer | гсу | Level | Transd | Limit | Margin | Detector | Line | PE |
| | V | 1Hz | dBµV | dB | dBµV | dB | | | |
| | 0.3860 | 000 | 34.50 | 11.2 | 48 | 13.6 | AV | N | GND |
| | 0.8560 | 000 | 30.70 | 11.6 | 46 | 15.3 | AV | N | GND |
| | 0.9420 | 000 | 32.50 | 11.6 | 46 | 13.5 | AV | N | GND |





CONDUCTED EMISSION STANDARD FCC PART15B

Inno3D 3D Printer S1 M/N:I3DPS1BK

InnoVISION Multimedia Limited Manufacturer:

Operating Condition: SD Card Printer Test Site: 2#Shielding Room

Operator: star

Test Specification: L 240V/60Hz

Report NO.:ATE20160778 Comment: 2016-5-3 / 10:07:02 Start of Test:

SCAN TABLE: "V 150K-30MHz fin"

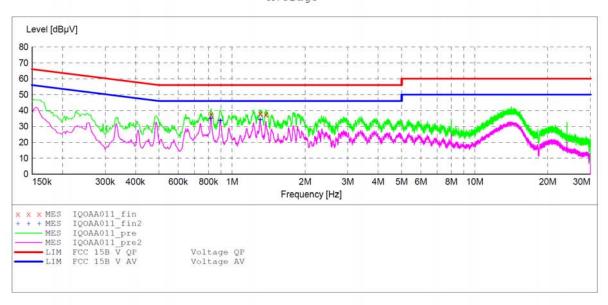
_SUB_STD_VTERM2 1.70 Short Description:

Start Stop Detector Meas. IF Step Transducer

Bandw. Time

Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kH QuasiPeak 1.0 s 9 kHz 4.5 kHz LISN(ESH3-Z5)

Average



MEASUREMENT RESULT: "IQOAA011 fin"

| 2016-5-3 Frequen | | l Transd | Limit | Margin | Detector | Line | PE |
|---------------------|----------|----------|-------|--------|----------|------|-----|
| M | iHz dBµ | V dB | dBµV | dB | | | |
| 0.8200 | 000 37.5 | 0 11.6 | 56 | 18.5 | QP | L1 | GND |
| 1.3060 | 000 38.0 | 0 11.6 | 56 | 18.0 | QP | L1 | GND |
| 1.3780 | 000 37.5 | 0 11.6 | 56 | 18.5 | QP | L1 | GND |

MEASUREMENT RESULT: "IQOAA011 fin2"

| 2016-5-3 | 10:08 | | | | | | | |
|----------|-------|-------|--------|-------|--------|----------|------|-----|
| Frequen | су І | Level | Transd | Limit | Margin | Detector | Line | PE |
| М | Hz | dΒμV | dB | dBµV | dB | | | |
| 0.8180 | 00 3 | 35.10 | 11.6 | 46 | 10.9 | AV | L1 | GND |
| 0.8940 | 00 3 | 33.70 | 11.6 | 46 | 12.3 | AV | L1 | GND |
| 1.3040 | 00 | 34.20 | 11.6 | 46 | 11.8 | AV | L1 | GND |





CONDUCTED EMISSION STANDARD FCC PART15B

EUT: Inno3D 3D Printer S1 M/N:I3DPS1BK

Manufacturer: InnoVISION Multimedia Limited

Operating Condition: SD Card Printer Test Site: 2#Shielding Room

Operator: star

Test Specification: N 240V/60Hz

Comment: Report NO.:ATE20160778 Start of Test: 2016-5-3 / 10:09:13

SCAN TABLE: "V 150K-30MHz fin"

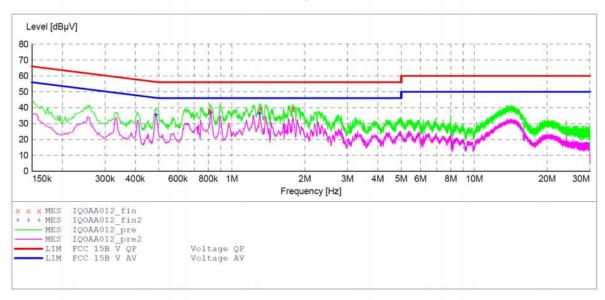
Short Description: _SUB_STD_VTERM2 1.70

Start Stop Step Detector Meas. IF Transducer

Frequency Frequency Width Time Bandw.

150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)

Average



MEASUREMENT RESULT: "IQOAA012 fin"

| 2016-5-3 10 | :11 | | | | | | |
|------------------|-------|--------------|---------------|--------------|----------|------|-----|
| Frequency MHz | | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
| 0.812000 | 38.00 | 11.6 | 56 | 18.0 | QP | N | GND |
| 1.312000 | 39.00 | 11.6 | 56 | 17.0 | QP | N | GND |
| 1.786000 | 39.10 | 11.7 | 56 | 16.9 | QP | N | GND |

MEASUREMENT RESULT: "IQOAA012 fin2"

| 2016-5-3 10 | :11 | | | | | | |
|-------------|-------|--------|-------|--------|----------|------|-----|
| Frequency | Level | Transd | Limit | Margin | Detector | Line | PE |
| MHz | dBµV | dB | dBµV | dB | | | |
| 0.486000 | 35.60 | 11.5 | 46 | 10.6 | AV | N | GND |
| 0.818000 | 37.20 | 11.6 | 46 | 8.8 | AV | N | GND |
| 1.302000 | 36.40 | 11.6 | 46 | 9.6 | AV | N | GND |





CONDUCTED EMISSION STANDARD FCC PART15B

Inno3D 3D Printer S1 EUT: M/N:I3DPS1BK

InnoVISION Multimedia Limited Manufacturer:

Operating Condition: USB Printer Test Site: 2#Shielding Room

Operator: star

Test Specification: L 240V/60Hz

Comment: Report NO.:ATE20160778 Start of Test: 2016-5-3 / 9:59:24

SCAN TABLE: "V 150K-30MHz fin"

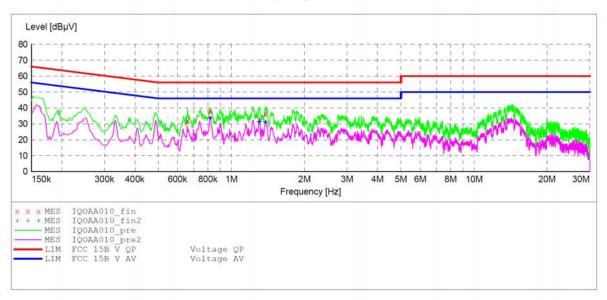
_SUB_STD_VTERM2 1.70 Short Description:

Detector Meas. IF Start Stop Step Transducer

Frequency Frequency Width Bandw. Time

150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)

Average



MEASUREMENT RESULT: "IQOAA010 fin"

| 2016-5-3 | 10:01 | Ĺ | | | | | | |
|----------|-------|-------|--------|------|--------|----------|------|-----|
| Freque | - | | Transd | | Margin | Detector | Line | PE |
| | MHz | dBµV | dB | dΒμV | dB | | | |
| 0.660 | 000 | 31.70 | 11.5 | 56 | 24.3 | QP | L1 | GND |
| 0.818 | 000 | 37.80 | 11.6 | 56 | 18.2 | QP | L1 | GND |
| 1.380 | 000 | 36.20 | 11.6 | 56 | 19.8 | QP | L1 | GND |

MEASUREMENT RESULT: "IQOAA010 fin2"

| 2016-5-3 10:01 | | | | | | | |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
| 0.816000 | 33.70 | 11.6 | 46 | 12.3 | AV | L1 | GND |
| 1.300000 | 31.30 | 11.6 | 46 | 14.7 | AV | L1 | GND |
| 1.380000 | 31.10 | 11.6 | 46 | 14.9 | VA | T.1 | GND |





CONDUCTED EMISSION STANDARD FCC PART15B

Inno3D 3D Printer S1 M/N:I3DPS1BK

Manufacturer: InnoVISION Multimedia Limited

Operating Condition: USB Printer Test Site: 2#Shielding Room

Operator: star

Test Specification: N 240V/60Hz

Comment: Report NO.:ATE20160778 Start of Test: 2016-5-3 / 9:56:11

SCAN TABLE: "V 150K-30MHz fin"

_SUB_STD_VTERM2 1.70 Short Description:

UB_STD_vib...

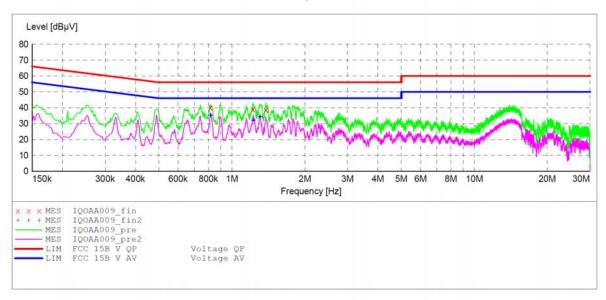
Detector Meas. IF

mime Bandw. Start Stop Step Transducer

Frequency Frequency Width

150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)

Average



MEASUREMENT RESULT: "IQOAA009 fin"

| 2016-5-3 Frequen | | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
|---------------------|-----|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.816 | 000 | 40.00 | 11.6 | 56 | 16.0 | QP | N | GND |
| 1.2220 | 000 | 39.00 | 11.6 | 56 | 17.0 | QP | N | GND |
| 1.380 | 000 | 38.80 | 11.6 | 56 | 17.2 | QP | N | GND |

MEASUREMENT RESULT: "IQOAA009 fin2"

| 2 | 2016-5-3 9:58 | | | | | | | |
|---|---------------|-------|--------|-------|--------|----------|------|-----|
| | Frequency | Level | Transd | Limit | Margin | Detector | Line | PE |
| | MHz | dBµV | dB | dΒμV | dB | | | |
| | 0.816000 | 35.20 | 11.6 | 46 | 10.8 | AV | N | GND |
| | 1.226000 | 32.10 | 11.6 | 46 | 13.9 | AV | N | GND |
| | 1.304000 | 34.30 | 11.6 | 46 | 11.7 | AV | N | GND |

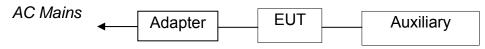
Report No.: ATE20160778 Page 23 of 36



5. RADIATED EMISSION MEASUREMENT

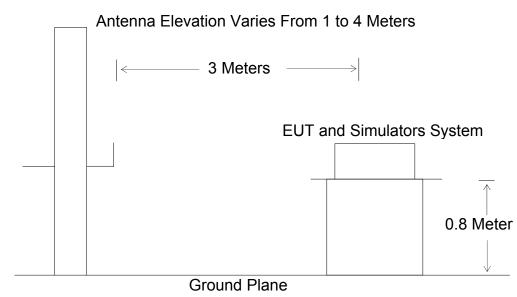
5.1.Block Diagram of Test Setup

5.1.1.Block diagram of connection between the EUT and simulators



(EUT: Inno3D 3D Printer S1)

5.1.2.Semi-Anechoic Chamber Test Setup Diagram



(EUT: Inno3D 3D Printer S1)



Page 24 of 36

5.2. The Emission Limit For Section 15.109 (a)

5.2.1. Radiation Emission Measurement Limits According to Section 15.109 (a).

| Frequency | Distance | Field Strengths Limit | | | | |
|-----------|----------|-----------------------|----------|--|--|--|
| MHz | Meters | μV/m | dB(μV/m) | | | |
| 30-88 | 3 | 100 | 40.0 | | | |
| 88-216 | 3 | 150 | 43.5 | | | |
| 216-960 | 3 | 200 | 46.0 | | | |
| 960-1000 | 3 | 500 | 54.0 | | | |

Remark: (1) Emission level dB (μ V) = 20 log Emission level μ V/m.

- (2)The smaller limit shall apply at the cross point between two frequency bands.
- (3)Distance is the distance in meters between the measuring instrument antenna and the closest point of any part of the device or system.

5.3.EUT Configuration on Measurement

The following equipment is installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3.1.Inno3D 3D Printer S1 (EUT)

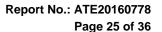
Model Number: I3DPS1BK

Serial Number: N/A

Manufacturer: InnoVISION Multimedia Limited

5.4. Operating Condition of EUT

- 5.4.1. Setup the EUT and simulator as shown as Section 4.2.
- 5.4.2. Turn on the power of all equipment.
- 5.4.3.Let the EUT work in test mode (SD Card Printer, USB Printer) and measure it.





5.5.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2014 on radiated emission measurement.

The bandwidth of the EMI test receiver (R&S ESCS30) is set at 120kHz from 30MHz to 5000MHz.

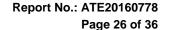
The frequency range from 30MHz to 5000MHz is checked.

5.6. Radiated Emission Noise Measurement Result

PASS.

Model Number: I3DPS1BK

| Test mode: SD Card Printer | | | | | | | | | | |
|----------------------------|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|--|--|
| | No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | | |
| Horizontal | 1 | 207.1968 | 51.41 | -18.50 | 32.91 | 43.50 | -10.59 | QP | | |
| | 2 | 222.2807 | 51.85 | -18.38 | 33.47 | 46.00 | -12.53 | QP | | |
| | 3 | 312.5482 | 56.06 | -15.99 | 40.07 | 46.00 | -5.93 | QP | | |
| | No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | | |
| Vertical | 1 | 47.3688 | 51.54 | -20.01 | 31.53 | 40.00 | -8.47 | QP | | |
| | 2 | 143.7760 | 58.49 | -22.20 | 36.29 | 43.50 | -7.21 | QP | | |
| | 3 | 190.4411 | 56.30 | -19.41 | 36.89 | 43.50 | -6.61 | QP | | |
| Test mode: USB Printer | | | | | | | | | | |
| | No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | | |
| Horizontal | 1 | 129.3923 | 59.00 | -21.71 | 37.29 | 43.50 | -6.21 | QP | | |
| | 2 | 379.1780 | 53.94 | -14.15 | 39.79 | 46.00 | -6.21 | QP | | |
| | 3 | 955.3509 | 43.51 | - 3.35 | 40.16 | 46.00 | - 5.84 | QP | | |
| | No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | | |
| Vertical | 1 | 47.3688 | 51.36 | -20.01 | 31.35 | 40.00 | -8.65 | QP | | |
| | 2 | 143.7760 | 58.11 | -22.20 | 35.91 | 43.50 | -7.59 | QP | | |
| | 3 | 584.1611 | 51.12 | -10.27 | 40.85 | 46.00 | -5.15 | QP | | |



Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396





ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 2016-5-6 Time: 10:20:35

Engineer Signature: star

Distance: 3m

Job No.: star2016 #679

Standard: FCC Class B 3M Radiated

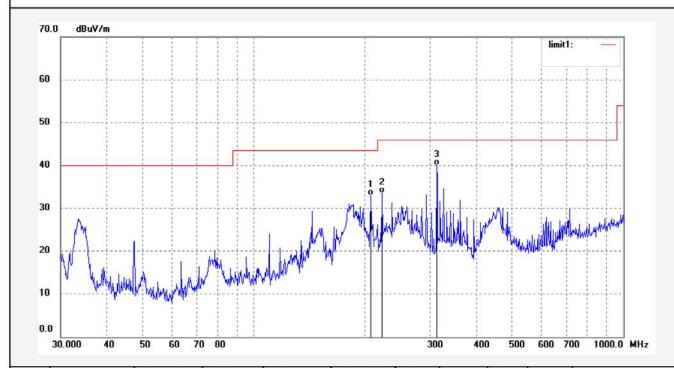
Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 % EUT: Inno3D 3D Printer S1

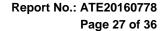
Mode: SD Card Printer Model: I3DPS1BK

Manufacturer: InnoVISION Multimedia Limited

Note: Report No.:ATE20160778



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 207.1968 | 51.41 | -18.50 | 32.91 | 43.50 | -10.59 | QP | | | |
| 2 | 222.2807 | 51.85 | -18.38 | 33.47 | 46.00 | -12.53 | QP | | | |
| 3 | 312.5482 | 56.06 | -15.99 | 40.07 | 46.00 | -5.93 | QP | | | |



Site: 1# Chamber Tel:+86-0755-26503290

Fax:+86-0755-26503396





ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2016-5-6 Time: 10:16:53

Engineer Signature: star

Distance: 3m

Job No.: star2016 #678

Standard: FCC Class B 3M Radiated

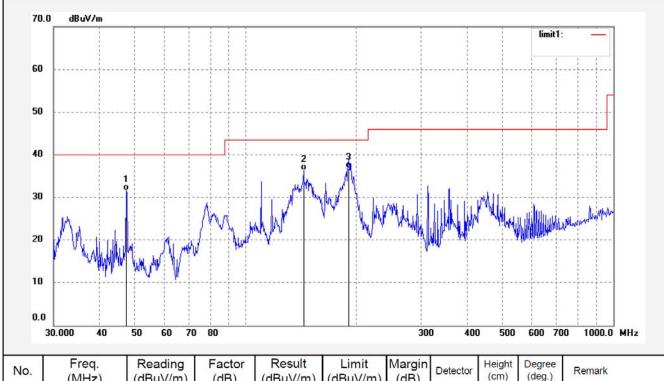
Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 % EUT: Inno3D 3D Printer S1

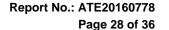
Mode: SD Card Printer Model: I3DPS1BK

Manufacturer: InnoVISION Multimedia Limited

Note: Report No.:ATE20160778



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|-------------|--------------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 47.3688 | 51.54 | -20.01 | 31.53 | 40.00 | -8.47 | QP | | | |
| 2 | 143.7760 | 58.49 | -22.20 | 36.29 | 43.50 | -7.21 | QP | | | |
| 3 | 190.4411 | 56.30 | -19.41 | 36.89 | 43.50 | -6.61 | QP | | | |







F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: star2016 #676

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 % EUT: Inno3D 3D Printer S1

Mode: USB Printer Model: I3DPS1BK

Manufacturer: InnoVISION Multimedia Limited

Note: Report No.:ATE20160778

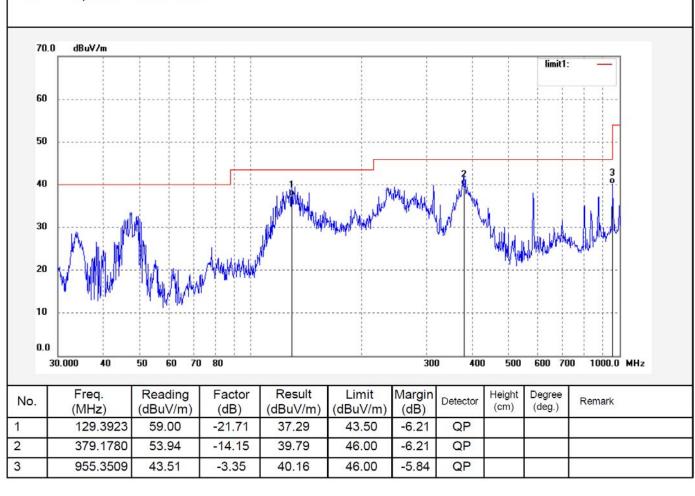
Polarization: Horizontal

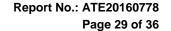
Power Source: AC 120V/60Hz

Date: 2016-5-6 Time: 10:08:42

Engineer Signature: star

Distance: 3m





Site: 1# Chamber Tel:+86-0755-26503290

Fax:+86-0755-26503396





ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2016-5-6 Time: 10:12:31

Engineer Signature: star

Distance: 3m

Job No.: star2016 #677

Standard: FCC Class B 3M Radiated

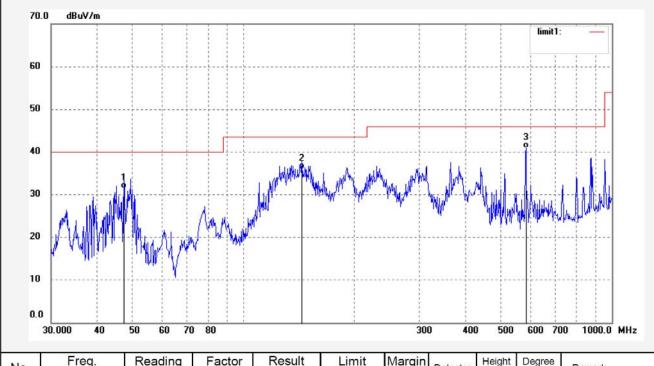
Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 % EUT: Inno3D 3D Printer S1

Mode: USB Printer Model: I3DPS1BK

Manufacturer: InnoVISION Multimedia Limited

Note: Report No.:ATE20160778

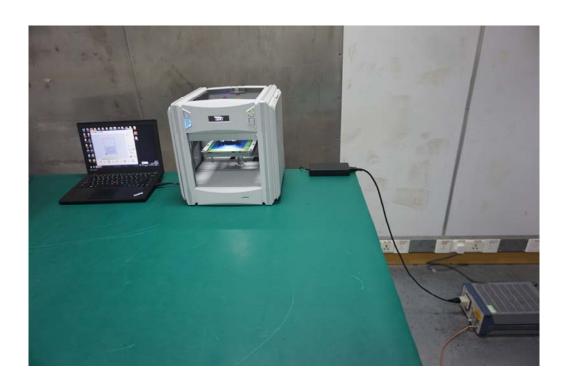


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|----------------|------------------|----------------|--------------------|-------------------|----------------|----------|-------------|------------------|--------|
| 1 | 47.3688 | 51.36 | -20.01 | 31.35 | 40.00 | -8.65 | QP | | | |
| 2 | 143.7760 | 58.11 | -22.20 | 35.91 | 43.50 | -7.59 | QP | | | |
| 3 | 584.1611 | 51.12 | -10.27 | 40.85 | 46.00 | -5.15 | QP | | | |

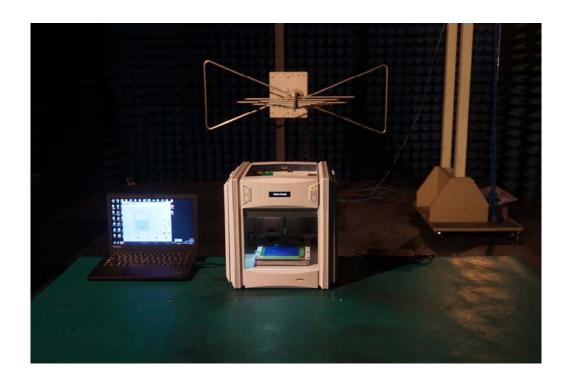


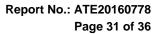
6. PHOTOGRAPHS

6.1. Photo of Conducted Emission Measurement



6.2. Photos of Radiated Emission Measurement







6.3.Photo of EUT



