



SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

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Report No.: GZEM190301118703
Page: 1 of 12

TEST REPORT

Application No.: GZEM1903011187CR
Applicant: Gastronomy Plus Ltd
Address of Applicant: Central Barn, Hornby Road , Claughton, Lancaster City, Lancashire
Province, England
Manufacturer: Chitco Industrial Co., Limited
Address of Manufacturer: 328#, Bldg A, tong'an, No.30 hangkong Rd E, sanwei, xixiang, bao'an district,
shenzhen, PRC
Factory: Chitco Industrial Co., Limited
Address of Factory: 328#, Bldg A, tong'an, No.30 hangkong Rd E, sanwei, xixiang, bao'an district,
shenzhen, PRC
Equipment Under Test (EUT):
EUT Name: Sous Vide Circulator
Model No.: ivide
Trade Mark: Sousvide toos.com
Standard(s) : 47 CFR FCC Part 2 Subpart J, section 2.1091
Date of Receipt: 2019-03-11
Date of Test: 2019-03-12 to 2019-03-18
Date of Issue: 2019-09-23

| | |
|---------------------|--------------|
| Test Result: | Pass* |
|---------------------|--------------|

* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian

Kobe Jian
Lab Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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Guangzhou Branch Testing Center EEC Laboratory | 中国·广州·经济技术开发区科学城科珠路198号 | 邮编: 510663 | t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2019-09-23 | | Original |
| | | | | |
| | | | | |
| | | | | |

| | | | |
|--------------------------|---|--------------------------|------|
| Authorized for issue by: | | | |
| Tested By |  Jackson_Yuan /Project Engineer | 2019-03-12 to 2019-03-18 | Date |
| | | | |
| Checked By |  Ricky_Liu /Reviewer | 2019-03-22 | Date |
| | | | |



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2 Test Summary

| Radio Spectrum Technical Requirement | | | | |
|--------------------------------------|---|---|---|--------|
| Item | Standard | Method | Requirement | Result |
| RF Exposure | 47 CFR FCC Part 2 Subpart J, section 2.1091 | 47 CFR FCC Part 2 Subpart J, section 2.1091 | 47 CFR FCC Part 2 Subpart J, section 2.1091 | Pass |



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4 General Information

4.1 Details of E.U.T.

| | |
|---------------------|---|
| Power Supply: | AC 120V, 50/60Hz |
| Rated Power: | 800W, 1000W, 1200W (tested in this report) |
| Test Voltage: | AC 120V, 60Hz |
| Cable: | AC mains (unshielded, 1.3m) |
| Antenna Gain | 0 dBi |
| Antenna Type | PCB Antenna |
| Channel Spacing | 5MHz |
| Modulation Type | 802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK) |
| Number of Channels | 802.11b/g/n(HT20):11 |
| Operation Frequency | 802.11b/g/n(HT20): 2412MHz to 2462MHz |
| Software | ESP |
| Power setting | 0.00 |

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|---------------|--------------|-----------|-----------------|
| Laptop | Lenovo | T430u | REF. No.SEA1800 |
| BT test board | SGS EMC | RF 07 | RF 07 |

4.3 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|---------------------------------|
| 1 | Radio Frequency | $\pm 5.5 \times 10^{-8}$ |
| 2 | Duty cycle | $\pm 0.57\%$ |
| 3 | Occupied Bandwidth | $\pm 3\%$ |
| 4 | RF Conducted power | $\pm 0.68\text{dB}$ |
| 5 | RF Power Density | $\pm 1.50\text{dB}$ |
| 6 | Conducted Spurious Emissions | $\pm 1.04\text{dB}$ |
| 7 | RF Radiated Power | $\pm 4.5\text{dB}$ (below 1GHz) |
| | | $\pm 4.8\text{dB}$ (above 1GHz) |
| 8 | Radiated Spurious Emission Test | $\pm 4.5\text{dB}$ (30MHz-1GHz) |
| | | $\pm 4.8\text{dB}$ (1GHz-18GHz) |
| 9 | Temperature | $\pm 0.4^\circ\text{C}$ |
| 10 | Humidity | $\pm 1.3\%$ |
| 11 | Supply Voltages | $\pm 1.5\%$ |
| 12 | Time | $\pm 3\%$ |



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4.4 Test Location

All tests were performed at:

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Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

● **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

● **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

● **FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

● **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

● **Industry Canada (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

● **VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-10449 and T-11179 respectively.

● **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

| General used equipment | | | | | |
|------------------------|--------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| DMM | Fluke | 73 | EMC0006 | 2018-07-20 | 2019-07-19 |
| DMM | Fluke | 73 | EMC0007 | 2018-07-19 | 2019-07-18 |

| Conducted Peak Output Power | | | | | |
|-----------------------------|---------------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EXA Signal Analyzer | AgilentTechnologies | N9010A | EMC2138 | 2018-11-19 | 2019-11-18 |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2018-04-04 | 2020-04-03 |
| Test Software JS1120-3 | HangTianXing | V2.6 | GZE100-69 | N/A | N/A |



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6 Radio Spectrum Technical Requirement

6.1 RF Exposure

6.1.1 Test Requirement:

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

(a) Limits for Occupational / Controlled Exposure

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S)(mW/cm ²) | Averaging Times E ² , H ² or S (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|--|--|
| 0.3-3.0 | 614 | 1.63 | (100)* | 6 |
| 3.0-30 | 1842/f | 4.89/f | (900/f)* | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1500 | -- | -- | F/300 | 6 |
| 1500-100000 | -- | -- | 5 | 6 |

(b) Limits for General Population / Uncontrolled Exposure

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S)(mW/cm ²) | Averaging Times E ² , H ² or S (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|--|--|
| 0.3-1.34 | 614 | 1.63 | (100)* | 30 |
| 1.34-30 | 824/f | 2.19/f | (180/f)* | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | -- | -- | F/1500 | 30 |
| 1500-100000 | -- | -- | 1.0 | 30 |

Note: f=frequency in MHz; *Plane-wave equivalent power density



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6.1.2 MPE Calculation Method

$$E (V/m) = (30 \cdot P \cdot G)^{0.5} / d \quad \text{Power Density: } Pd(W/m^2) = E^2 / 377$$

E=Electric Field (V/m)

P=Peak RF output Power (W)

G=EUT Antenna numeric gain (numeric)

d= Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = (30 \cdot P \cdot G) / (377 \cdot d^2)$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

6.1.3 Calculated Result and Limit

(1) 802.11b 11Mbps data rate:

| Frequency (MHz) | Antenna Gain (Numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|-----------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 2412 | 1.0000 | 12.80 | 19.055 | 0.00379 | 1 | Complies |
| 2442 | 1.0000 | 13.39 | 21.827 | 0.00434 | 1 | Complies |
| 2462 | 1.0000 | 12.60 | 18.197 | 0.00362 | 1 | Complies |

(2) 802.11g 54Mbps data rate:

| Frequency (MHz) | Antenna Gain (Numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|-----------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 2412 | 1.0000 | 11.32 | 13.552 | 0.00270 | 1 | Complies |
| 2442 | 1.0000 | 10.81 | 12.050 | 0.00240 | 1 | Complies |
| 2462 | 1.0000 | 10.57 | 11.402 | 0.00227 | 1 | Complies |

(3) 802.11n HT20 65Mbps data rate:

| Frequency (MHz) | Antenna Gain (Numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|-----------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 2412 | 1.0000 | 9.61 | 9.141 | 0.00182 | 1 | Complies |
| 2442 | 1.0000 | 8.98 | 7.907 | 0.00157 | 1 | Complies |
| 2462 | 1.0000 | 8.86 | 7.691 | 0.00153 | 1 | Complies |



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7 Photographs

7.1 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for GZEM1903011187CR.

--End of Report--



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