

TEST REPORT

Application No.: GZEM2602001186HS

Applicant: Guangdong Galanz Enterprises Co., Ltd.

Address of Applicant: No. 25 South Ronggui Avenue, Ronggui Street, Shunde District, Foshan City, Guangdong Province, China

Manufacturer: Guangdong Galanz Appliances Manufacturing Co., Ltd.

Address of Manufacturer: No. 3, East Xingpu Avenue, Maxin Industrial Zone, Huangpu Town, Zhongshan City, Guangdong Province, China

Factory: 1. Guangdong Galanz Appliances Manufacturing Co., Ltd.
2. INDUSTRIAS ACROS WHIRLPOOL S DE R.L DE C.V

Address of Factory: 1. No. 3, East Xingpu Avenue, Maxin Industrial Zone, Huangpu Town, Zhongshan City, Guangdong Province, China
2. CARRETERA PANAMERICANA KM 280 COL LA PROVIDENCIA, CELAYA GUANAJUATO MEXICO

Product Name: Microwave oven

Model No.: Please refer to page 2.

Trade Mark: GALANZ, MAINSTAYS, Hamilton Beach, FRIGIDAIRE, LIVART, Vissani, Kenmore, Black+Decker, CHEFMAN

Standard(s) : 47 CFR Part 18

Date of Receipt: 2026-02-10

Date of Test: 2026-02-25 to 2026-03-07

Date of Issue: 2026-04-17

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



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Model No.:

P70J20AL-V1(L2), P70J20AL-V2(L2), P70J20AP-V2(L2), P70J20L-V1(L2), P70J20L-V2(L2), P70J20P-V2(L2), P70J20AP-V3(L2), P70J20AP-V4(L2), P70J20AP-V5(L2), P70J20AP-V6(L2), P70J20AL-V7(L2), P70J20AL-V8(L2), P70J20P-V3(L2), P70J20P-V4(L2), P70J20P-V5(L2), P70J20P-V6(L2), P70J20L-V7(L2), P70J20L-V8(L2), P70T20AL-V1(L2), P70T20AL-V2(L2), P70T20AP-V2(L2), P70T20AP-V3(L2), P70T20AP-V4(L2), P70T20AP-V5(L2), P70T20AP-V6(L2), P70T20AL-V7(L2), P70T20AL-V8(L2), P70T20L-V1(L2), P70T20L-V2(L2), P70T20P-V2(L2), P70T20P-V3(L2), P70T20P-V4(L2), P70T20P-V5(L2), P70T20P-V6(L2), P70T20L-V7(L2), P70T20L-V8(L2), P70J17AL-V1(L2), P70J17AL-V2(L2), P70J17AP-V2(L2), P70J17AP-V3(L2), P70J17AP-V4(L2), P70J17AP-V5(L2), P70J17AP-V6(L2), P70J17AL-V7(L2), P70J17AL-V8(L2), P70J17L-V1(L2), P70J17L-V2(L2), P70J17P-V2(L2), P70J17P-V3(L2), P70J17P-V4(L2), P70J17P-V5(L2), P70J17P-V6(L2), P70J17L-V7(L2), P70J17L-V8(L2), PS-P70T20AL-V1B, PS-P70T20AL-V1W, PS-P70T20AL-V1R, P70T20AL-V1B, P70T20AL-V1W(L2), P70T20AL-V1R(L2), OGCMV107WE-07, OGCMV107WB-07, OGCMV107RD-07, MSV1701, MSV1702, MSV1703, SGCMV107BK-07, SGCMV107WE-07, SGCMV107RD-07, WLCMV107BK-07, WLCMV107WE-07, WLCMV107RD-07, MSF0W100072352, MSF0R100072352, MSF0B100072352, MS8436127995-01, MS8436127995-02, MS8436127995-03, HBCMV207BK-07, HBCMV207WE-07, MSF0*100072352, HBCMV207BK-L2, HBCMV207WE-L2, P70T20AP-VB(L2)

P70J17(X)-(Y), P70J17(X)-(Y)(L2), P70T20(X)-(Y), P70T20(X)-(Y)(L2), P70J20(X)-(Y), P70J20(X)-(Y)(L2),

P70J17AP-V8(L2), P70J17AP-V6(L2), P70J17AP-V2(L2), P70T20AP-V2S(L2), P70T20AP-WE(L2), P70T20AP-V3(L2), P70J17AL-V2C(L2), MS8436127995-07, MS**36127995-**, EMW733, EMW729.

Variable (X) may be L, P, SL, SP, TL, TP, AL, AP, ASL, ASP, ATL, ATP, EL, EP, ESL, ESP, ETL, ETP.

Variable (Y) may compose by one to five characters from A to Z and/or numbers from 0 to 9. It represents the differences of the appearance.

Remark: * could be from 0 to 9 or from A to Z or blank.

LVMC-07B, MSCMBV07BK-L2, MSCMBV07WE-L2, VSCMWE07S2-07, P70T20AP-WE(L2),

KMCMV207**-07 (* could be from 0 to 9 or from A to Z or blank), BDMW0107CB, BDMW0107CW, BDMW0107CS, BMG07BL, BMG07WL, MS*****-0* (*=number), KMCMV207S2-07,

KMCM**07**07 (*=letter and number), **CM**07**07 (*=letter and number),

GLCMV207**-07 (** represents one or two letters, indicating color),

P70T20CLCA(L2), RJ55-SS-7-V3, R55-SS-7-V3-CA, RJ55-SS-7-V3-XXXX (X=letter and number) ♣

♣

Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.



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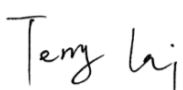
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Revision Record			
Version	Report No.	Date	Remark
01	GZEM240100022002	2024-01-15	Original
02	GZEM240100022004	2024-04-15	Amendment report: updated applicant's address, manufacturer's and factory's information, added new models and trade mark.
03	GZEM240100022006	2024-11-12	Amendment report: Added new model and trade mark.
04	GZEM240100022008	2025-02-08	Amendment report: Added new models and trademark.
05	GZEM240100022010	2025-05-06	Amendment report: Added new models and trademark.
06	GZEM240100022012	2025-10-16	Amendment report: Updated factory information; Added trade mark and models.
07	GZEM240100022014	2026-01-12	Amendment report: Added one new factory information; Added new models.
08	GZEM240100022014	2026-01-12	Amendment report: Added one new factory information; Added new models.
09	GZEM240100022018	2026-04-17	Amendment report: Added new models and trade mark; Added computer board, MEL829, and mechanical handle type two-step door opening (without electromagnetic structure)

Authorized for issue by:			
			
		Damon Guan/Project Engineer	
Approved By			
			
		Terry Lai/Reviewer	



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 18	FCC/OST MP-5:1986	18.307	Pass
Radiated Emissions (Magnetic field Strength)(9kHz-30MHz)		FCC/OST MP-5:1986	18.305(b)	Pass
Radiated Emissions (30MHz-1GHz)		FCC/OST MP-5:1986	18.305(b)	Pass
Radiated Emissions (above 1GHz)		FCC/OST MP-5:1986	18.305(b)	Pass
Output Power Measurement		FCC OST/MP-5:1986	FCC OST/MP-5:1986 Clause 4.3	Pass
Operating Frequency Measurement		FCC OST/MP-5:1986	18.301	Pass
Radiation Hazard Test		FCC OST/MP-5:1986	1 mW/cm2	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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Remark for report GZEM240100022002

♣Declaration of EUT Family Grouping:

Model No.: P70J20AL-V1(L2), P70J20AL-V2(L2), P70J20AP-V2(L2), P70J20L-V1(L2), P70J20L-V2(L2), P70J20P-V2(L2), P70J20AP-V3(L2), P70J20AP-V4(L2), P70J20AP-V5(L2), P70J20AP-V6(L2), P70J20AL-V7(L2), P70J20AL-V8(L2), P70J20P-V3(L2), P70J20P-V4(L2), P70J20P-V5(L2), P70J20P-V6(L2), P70J20L-V7(L2), P70J20L-V8(L2), P70T20AL-V1(L2), P70T20AL-V2(L2), P70T20AP-V2(L2), P70T20AP-V3(L2), P70T20AP-V4(L2), P70T20AP-V5(L2), P70T20AP-V6(L2), P70T20AL-V7(L2), P70T20AL-V8(L2), P70T20L-V1(L2), P70T20L-V2(L2), P70T20P-V2(L2), P70T20P-V3(L2), P70T20P-V4(L2), P70T20P-V5(L2), P70T20P-V6(L2), P70T20L-V7(L2), P70T20L-V8(L2), P70J17AL-V1(L2), P70J17AL-V2(L2), P70J17AP-V2(L2), P70J17AP-V3(L2), P70J17AP-V4(L2), P70J17AP-V5(L2), P70J17AP-V6(L2), P70J17AL-V7(L2), P70J17AL-V8(L2), P70J17L-V1(L2), P70J17L-V2(L2), P70J17P-V2(L2), P70J17P-V3(L2), P70J17P-V4(L2), P70J17P-V5(L2), P70J17P-V6(L2), P70J17L-V7(L2), P70J17L-V8(L2), PS-P70T20AL-V1B, PS-P70T20AL-V1W, PS-P70T20AL-V1R, P70T20AL-V1B, P70T20AL-V1W(L2), P70T20AL-V1R(L2), OGCMV107WE-07, OGCMV107WB-07, OGCMV107RD-07, MSV1701, MSV1702, MSV1703, SGCMV107BK-07, SGCMV107WE-07, SGCMV107RD-07, WLCMV107BK-07, WLCMV107WE-07, WLCMV107RD-07, MSF0W100072352, MSF0R100072352, MSF0B100072352, MS8436127995-01, MS8436127995-02, MS8436127995-03, HBCMV207BK-07, HBCMV207WE-07, MSF0*100072352, HBCMV207BK-L2, HBCMV207WE-L2, P70T20AP-VB(L2)

P70J17(X)-(Y), P70J17(X)-(Y)(L2), P70T20(X)-(Y), P70T20(X)-(Y)(L2), P70J20(X)-(Y), P70J20(X)-(Y)(L2)

Variable (X) may be L, P, SL, SP, TL, TP, AL, AP, ASL, ASP, ATL, ATP, EL, EP, ESL, ESP, ETL, ETP.

Variable (Y) may compose by one to five characters from A to Z and/or numbers from 0 to 9. It represents the differences of the appearance.

Remark: * could be from 0 to 9 or from A to Z or blank

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the outer appearance and model name.

Therefore, only one model P70T20AP-VB(L2) was tested in this report.



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♣ Remark for the report GZEM240100022004:

This report GZEM240100022004 was copied from the GZEM240100022002 original report, in which the Model no. and trade mark were supplemented, applicant's address, manufacturer's and factory's information were updated.

According to the declaration of the applicant, the Model P70J17AP-V8(L2), P70J17AP-V6(L2), P70J17AP-V2(L2), P70T20AP-V2S(L2), P70T20AP-WE(L2), P70T20AP-V3(L2), P70J17AL-V2C(L2), MS8436127995-07, MS**36127995-**, EMW733, EMW729 supplemented in this report and the Model in the original report were identical, with only difference being the appearance and model name.

According to FCC Part 2 section 2.1043(b)(1), it is ok to update test report by Updated address of applicant; Changed manufacturer and factory information, Added models without filing with the Commission.

FCC Part 2 section 2.1043(b)(1):

A Class I permissive change includes those modifications in the equipment which do not degrade the characteristics reported by the manufacturer and accepted by the Commission when certification is granted. No filing with the Commission is required for a Class I permissive change.

Therefore original data was kept in this report GZEM240100022004.

♣ Remark for report GZEM240100022006:

This report GZEM240100022006 is based on original report GZEM240100022004. Added new model and trade mark.

According to the declaration from the applicant, model **LVMC-07B** in this report GZEM240100022006 and model P70T20AP-VB(L2) in original report GZEM240100022004 were identical in mechanical and electrical construction, only with difference on the model name.

According to FCC Part 2 section 2.1043(b)(1), it is ok to update test report by added new model without filing with the Commission.

FCC Part 2 section 2.1043(b)(1):

A Class I permissive change includes those modifications in the equipment which do not degrade the characteristics reported by the manufacturer and accepted by the Commission when certification is granted. No filing with the Commission is required for a Class I permissive change.

All test results in report GZEM240100022004 were kept in this report GZEM240100022006.



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Remark for report GZEM240100022008:

This report GZEM240100022008 is based on original report GZEM240100022006. Added new models and trademark.

1. Added new models MSCMVB07BK-L2, MSCMVB07WE-L2, VSCMWE07S2-07, P70T20AP-WE(L2).

According to the declaration from the applicant, models **MSCMVB07BK-L2, MSCMVB07WE-L2, VSCMWE07S2-07, P70T20AP-WE(L2)** added in this report GZEM240100022008 and model P70T20AP-VB(L2) in original report GZEM240100022006 were identical in mechanical and electrical construction, only with difference on the model name, trademark and appearance.

2. Added trademark Vissani.

According to FCC Part 2 section 2.1043(b)(1), it is ok to update test report by added new models and trademark without filing with the Commission.

FCC Part 2 section 2.1043(b)(1):

A Class I permissive change includes those modifications in the equipment which do not degrade the characteristics reported by the manufacturer and accepted by the Commission when certification is granted. No filing with the Commission is required for a Class I permissive change.

All test results in report GZEM240100022006 were kept in this report GZEM240100022008.

Remark for report GZEM240100022010:

This report GZEM240100022010 is based on original report GZEM240100022008. with the following changes:

1. Added trademark Kenmore.

2. Added new models KMCMV207**-07 (* could be from 0 to 9 or from A to Z or blank).

According to the declaration from the applicant, models added in this report GZEM240100022010 and model P70T20AP-VB(L2) in original report GZEM240100022008 were identical in mechanical and electrical construction, only with difference on the model name.

According to FCC Part 2 section 2.1043(b)(1), it is ok to update test report by added new models and trademark without filing with the Commission.

FCC Part 2 section 2.1043(b)(1):

A Class I permissive change includes those modifications in the equipment which do not degrade the characteristics reported by the manufacturer and accepted by the Commission when certification is granted. No filing with the Commission is required for a Class I permissive change.

All test results in report GZEM240100022008 were kept in this report GZEM240100022010.



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Remark for the report GZEM240100022012:

This report GZEM240100022012 was based on the report GZEM240100022010, with the follow changes:

1. Updated factory information from two to one.
2. Added new trade mark: Black+Decker.
3. Added new models: BDMW0107CB, BDMW0107CW, BDMW0107CS, BMG07BL, BMG07WL.

According to the declaration from the applicant, models added in this report and models in original report were identical in electrical circuit design, layout, components used and internal wiring, only with difference on appearance and model name.

According to FCC Part 2 section 2.1043(b)(1), it is ok to update test report by Updated factory information, added new trade mark and new models without filing with the Commission.

FCC Part 2 section 2.1043(b)(1):

A Class I permissive change includes those modifications in the equipment which do not degrade the characteristics reported by the manufacturer and accepted by the Commission when certification is granted. No filing with the Commission is required for a Class I permissive change.

Therefore, all test results in report GZEM240100022010 were kept in this report GZEM240100022012.



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Remark for report GZEM240100022014:

This report GZEM240100022014 was based on the report GZEM240100022012, with the following changes:

1. Added one new factory information
2. Added new models.

According to the declaration from the applicant, models added in this report and models in original report were identical in electrical circuit design, layout, components used and internal wiring, only with difference on model name, trademark and appearance color.

Original models	New models
P70T20AP-VB(L2)	MS*****-0* (*=number) which trademark is MAINSTAYS
P70J17AP-V2(L2)	KMCMV207S2-07, KMCM**07**07 (*=letter and number) which trademark is Kenmore
	CM07**07 (*=letter and number) which trademark is Vissani, GALANZ, Kenmore

According to FCC Part 2 section 2.1043(b)(1), it is ok to update test report by added one new factory information and new models without filing with the Commission.

FCC Part 2 section 2.1043(b)(1):

A Class I permissive change includes those modifications in the equipment which do not degrade the characteristics reported by the manufacturer and accepted by the Commission when certification is granted. No filing with the Commission is required for a Class I permissive change.

No further testing is needed for above differences, test data in **GZEM240100022012** was kept in this report **GZEM240100022014**.

Remark for the report GZEM240100022016:

This report GZEM240100022016 based on the previous report GZEM240100022014, just added new models: **GLCMV207**-07** (** represents one or two letters, indicating color).

According to the declaration of the applicant, the models supplemented in this report and model **P70J17AP-V2(L2)** in the original report were identical, with only difference being the model name and appearance color.

According to FCC Part 2 section 2.1043(b)(1), it is ok to update test report by adding new models without filing with the Commission.

FCC Part 2 section 2.1043(b)(1):

A Class I permissive change includes those modifications in the equipment which do not degrade the characteristics reported by the manufacturer and accepted by the Commission when certification is granted. No filing with the Commission is required for a Class I permissive change.

No further testing is needed for above difference, original data in report GZEM240100022014 was kept in this report GZEM240100022016.



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Guangzhou Branch, Testing & Calibration Laboratory

No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

Remark for report GZEM240100022018:

This report GZEM240100022018 is based on original report GZEM240100022016. With the follow changes:

1. Added trade mark.
2. Added new models: P70T20CLCA(L2), RJ55-SS-7-V3, R55-SS-7-V3-CA, RJ55-SS-7-V3-XXXX (X=letter and number)

According to the declaration from the applicant, models added in this report GZEM240100022018 and models in original report GZEM240100022016 were different for the mechanical, electrical circuit design, layout, components used, which the add new models are used MEL829 PCB and mechanical handle type two-step door opening (without electromagnetic structure)

Considering the above all, full tests were performed to model P70T20CLCA(L2) and recorded the new test results in this report GZEM240100022018.

Other tests please refer to original report GZEM240100022016 for details.



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4 General Information

4.1 Details of E.U.T.

Power supply: AC 120V, 60Hz
Test voltage: AC 120V 60Hz
Microwave frequency: 2450MHz
Cable(s): About 1.0m x 3 wires unscreened AC mains cable.

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

1000mL of water in the beaker for power output and frequency measurement.
One of 700 and the other of 300mL of water for second and third harmonic radiation measurement.
700mL of water for all other measurement

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	3.13dB (150kHz to 30MHz)
Radiated Emissions (Magnetic field Strength) (9kHz-30MHz)	3.08dB(9kHz to 150kHz), 3.12dB(150kHz to 30MHz)
Radiated Emissions (30MHz-1GHz)	4.61dB (30MHz-1GHz):3m; 4.38dB (30MHz-1GHz):10m
Radiated Emissions (above 1GHz)	5.12dB (1GHz-6GHz); 5.38dB (6GHz-18GHz); 5.61dB(18GHz-40GHz)
Remark: The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty) or U_{ETSI} (ETSI Uncertainty). Emission decision rule: – Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report. – Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report. Immunity decision rule: – Pass means the observation meets the Performance Criterion requirement. – Fail means the observation doesn't meet the Performance Criterion requirement.	



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Guangzhou Branch Testing & Calibration Laboratory

No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
Guangdong, China 510663
Tel: +86 20 82155555
No tests were sub-contracted.

4.5 Test Facility

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

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **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.

- **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.

- **ISED (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-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 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-20107 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 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Guangzhou Branch EMC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
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5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Coaxial Cable	HangTianXing	BL03-NMNM-6.00M	EMC0107	2025-08-12	2026-08-11
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2025-08-14	2028-08-13
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2025-08-13	2026-08-12
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2025-11-18	2026-11-17
Test Software E3r	Audix	Ver.6.191211	GZE100-77	N/A	N/A
Artificial Mains Network (LISN)	AFJ Instruments	LT32C	EMC2046	2025-08-12	2026-08-11

Radiated Emissions (Magnetic field Strength)(9kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2025-08-13	2028-08-12
Coaxial cable	Mirco-COAX UTIFLEX	311A	EMC0540	2024-08-19	2026-08-18
Amplifier (9kHz-1.3GHz)	HP	8447F	EMC2065	2025-11-25	2026-11-24
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2024-04-16	2026-04-15
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR7	EMC2220	2025-11-18	2026-11-17
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2025-08-13	2028-08-12
Coaxial cable	Mirco-COAX UTIFLEX	311A	EMC0540	2024-08-19	2026-08-18
Amplifier (9kHz-1.3GHz)	HP	8447F	EMC2065	2025-11-25	2026-11-24
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR7	EMC2220	2025-11-18	2026-11-17
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Trilog Broadband Antenna (25MHz-2GHz)	Schwarzbeck Mess-Elektronik	VULB 9168	EMC2174	2025-04-21	2027-04-20



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Guangzhou Branch, Inspection & Testing Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
1-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2025-08-11	2026-08-10
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2025-08-11	2026-08-10
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
Horn Antenna (1-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2025-05-13	2027-05-12
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2025-08-12	2026-08-11
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2025-08-12	2026-08-11
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2025-03-22	2028-03-21
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Output Power Measurement					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Digital thermometer	FLUKE	51_2	EMC2200	2025-07-10	2026-07-09

Operating Frequency Measurement					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2025-08-11	2026-08-10
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2024-08-19	2026-08-18
Horn Antenna (1-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2025-05-13	2027-05-12
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC966	EMC2230	2025-03-22	2028-03-21
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Radiation Hazard Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Electric Field Probe (100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2025-05-14	2026-05-13

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2025-06-03	2026-06-02



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Guangzhou Branch Testing Center Laboratory 中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 sgs.china@sgs.com

6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 18
Test Method:	FCC/OST MP-5:1986
Test Engineer:	Sunny Yang
Limit:	
Frequency Range:	150kHz to 30MHz
0.15 to 0.5 MHz:	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5 to 5 MHz:	56dB(μV) quasi-peak, 46dB(μV) average
5 to 30 MHz:	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.1.1 E.U.T. Operation

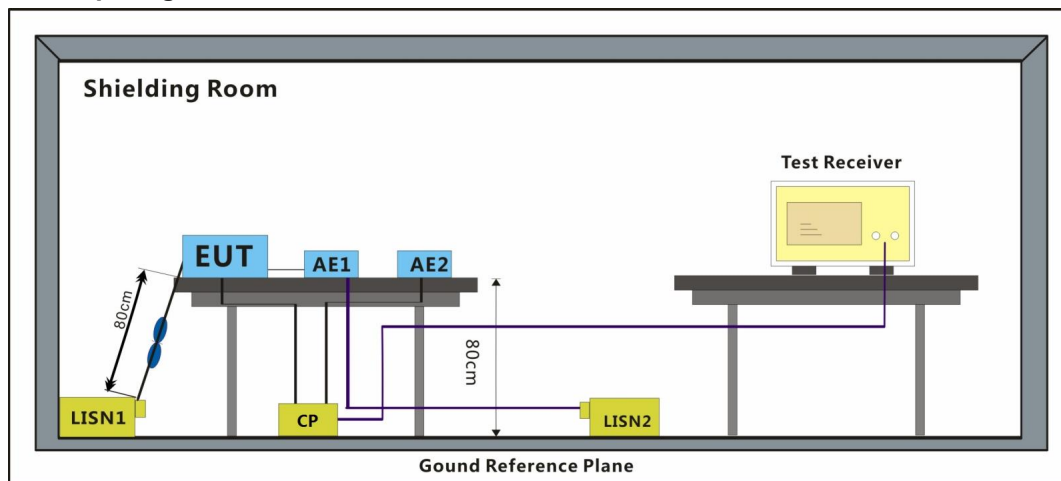
Operating Environment:

Temperature: 21.2 °C Humidity: 56.3 % RH Atmospheric Pressure: 1024 mbar

6.1.1 Test Mode Description

Pre-scan/	Mode	Description
Final test	Code	
Final test	00	Test the EUT in microwave mode with maximum power.
Pre-scan	01	Test the EUT in microwave mode with middle power.
Pre-scan	02	Test the EUT in microwave mode with lowest power.

6.1.2 Test Setup Diagram



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Guangzhou Branch (EMC) ELEC Laboratory

No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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t (86-20) 82155555 sgs.china@sgs.com

6.1.3 Measurement Procedure and Data

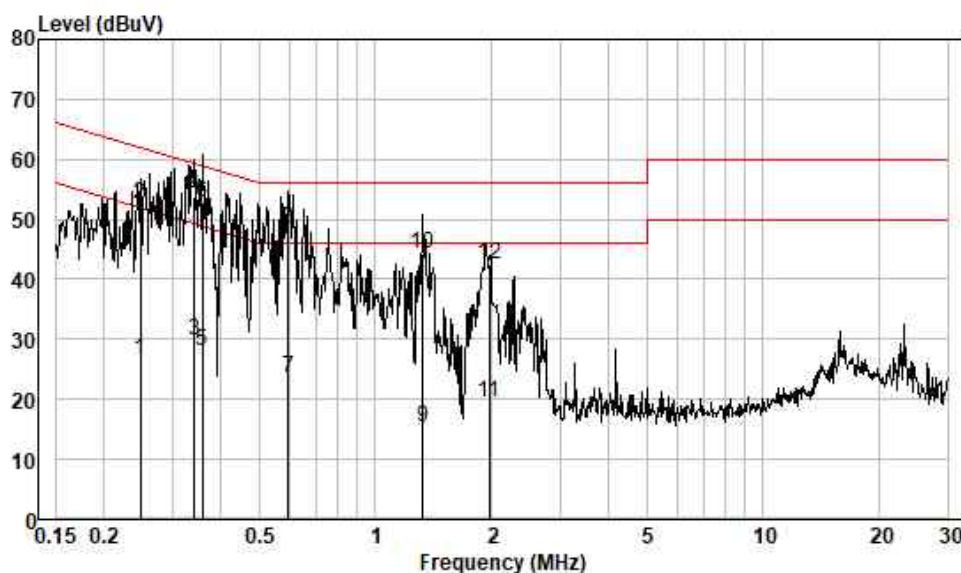
Frequency range: 150KHz-30MHz

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

The red line show in graphic is the limit in standard used in this section.

Measured Level = Read level + Cable Loss + LISN Factor

Test Mode: 00; Line: Live line

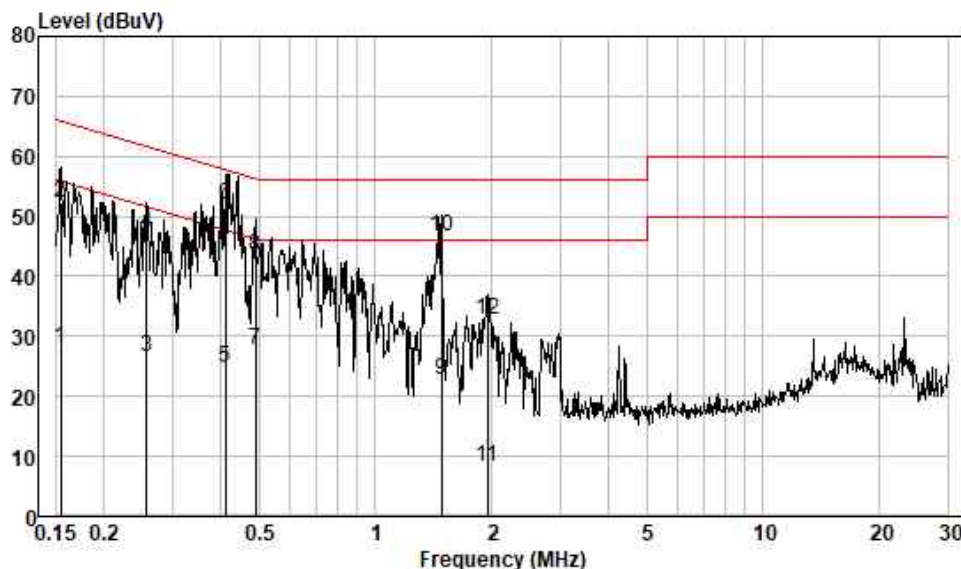


Pol : LINE
Mode :
Model :
Power :

	Freque	Read	Cable	LISN	Measured	Limit	Over	Remark
	nc	Level	Loss	Factor	Level	Line	Limit	
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.248	17.05	0.04	9.52	26.61	51.82	-25.21	Average
2	0.248	43.06	0.04	9.52	52.62	61.82	-9.20	QP
3	0.341	20.25	0.05	9.56	29.86	49.18	-19.32	Average
4	0.341	44.26	0.05	9.56	53.87	59.18	-5.31	QP
5	0.358	18.42	0.05	9.56	28.03	48.78	-20.75	Average
6	0.358	43.25	0.05	9.56	52.86	58.78	-5.92	QP
7	0.595	13.95	0.06	9.59	23.60	46.00	-22.40	Average
8	0.595	38.86	0.06	9.59	48.51	56.00	-7.49	QP
9	1.324	5.78	0.09	9.59	15.46	46.00	-30.54	Average
10	1.324	34.72	0.09	9.59	44.40	56.00	-11.60	QP
11	1.970	9.75	0.12	9.56	19.43	46.00	-26.57	Average
12	1.970	32.73	0.12	9.56	42.41	56.00	-13.59	QP



Test Mode: 00; Line: Neutral Line



Pol : NEUTRAL

Mode :

Model :

Power :

	Freque	Read	Cable	LISN	Measured	Limit	Over	Remark
	ncy	Level	Loss	Factor	Level	Line	Limit	
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.154	18.57	0.04	9.51	28.12	55.78	-27.66	Average
2	0.154	42.61	0.04	9.51	52.16	65.78	-13.62	QP
3	0.258	17.00	0.04	9.53	26.57	51.51	-24.94	Average
4	0.258	37.52	0.04	9.53	47.09	61.51	-14.42	QP
5	0.410	15.08	0.05	9.57	24.70	47.64	-22.94	Average
6	0.410	42.34	0.05	9.57	51.96	57.64	-5.68	QP
7	0.491	18.11	0.05	9.56	27.72	46.14	-18.42	Average
8	0.491	33.71	0.05	9.56	43.32	56.14	-12.82	QP
9	1.480	12.96	0.10	9.54	22.60	46.00	-23.40	Average
10	1.480	36.86	0.10	9.54	46.50	56.00	-9.50	QP
11	1.949	-1.36	0.12	9.57	8.33	46.00	-37.67	Average
12	1.949	23.14	0.12	9.57	32.83	56.00	-23.17	QP



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6.2 Radiated Emissions (Magnetic field Strength)(9kHz-30MHz)

Test Requirement: 47 CFR Part 18
 Test Method: FCC/OST MP-5:1986
 Test Engineer: Bob Qu
 Limit:
 Measurement Distance: 10 m
 Frequency Range: 9kHz to 30MHz
 Detector: Peak for pre-scan, Average for the final result
 (200Hz Resolution Bandwidth for 9kHz to 150kHz;
 9kHz Resolution Bandwidth for 150kHz to 30MHz)

Equipment:	Operating frequency:	RF Power generated by equipment (watts):	Limit dB(uV/m) average:
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	669.8	Limit=20lg(25*SQRT(669.8/500))+20lg(300/10)= 58.77 dBuV/m @ 10m distance.

6.2.1 E.U.T. Operation

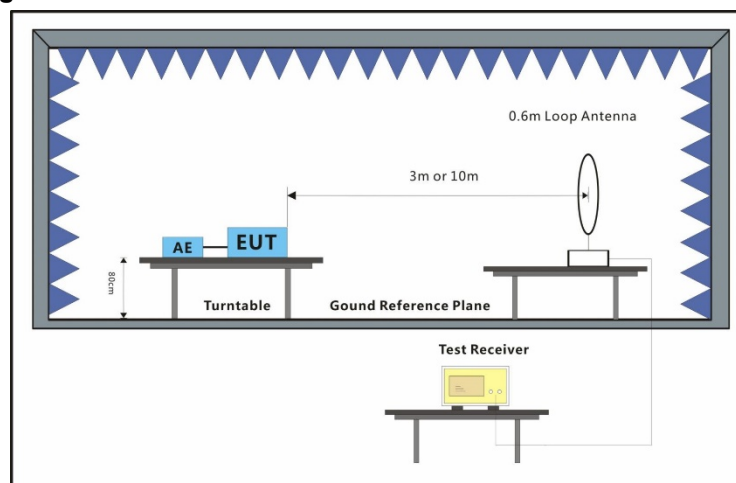
Operating Environment:

Temperature: 21.7 °C Humidity: 54.6 % RH Atmospheric Pressure: 1007 mbar

6.2.2 Test Mode Description

Pre-scan/ Mode	Description
Final test Code	
Final test 00	Test the EUT in microwave mode with maximum power.
Pre-scan 01	Test the EUT in microwave mode with middle power.
Pre-scan 02	Test the EUT in microwave mode with lowest power.

6.2.3 Test Setup Diagram



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6.2.4 Measurement Procedure and Data

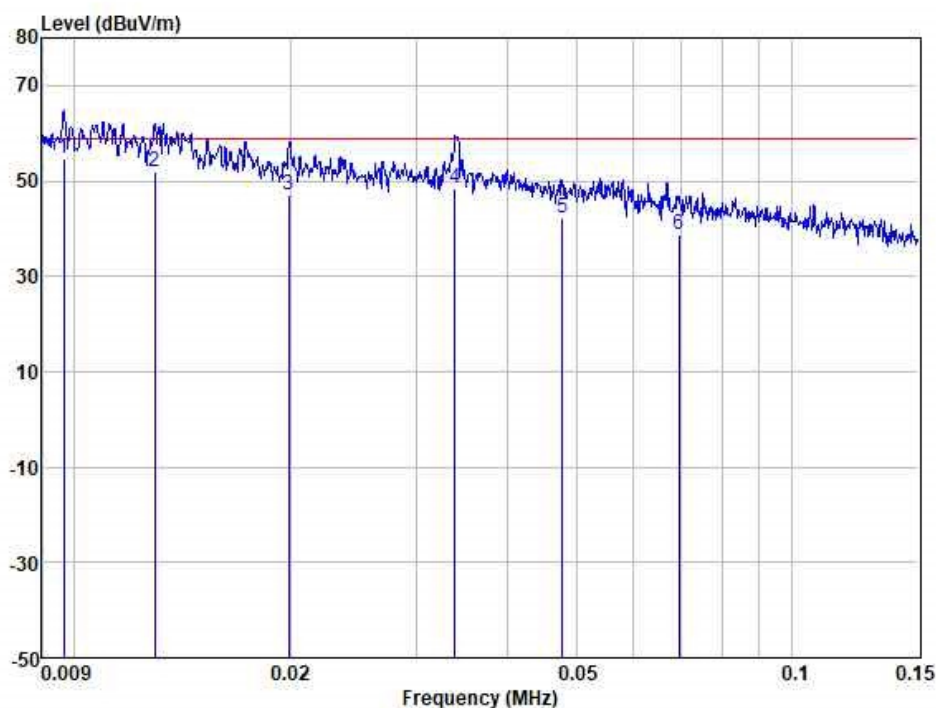
Frequency range: 9KHz-30MHz

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by loop antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Test Mode: 00; Polarity: Horizontal



Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.010	64.34	18.74	0.01	28.41	54.68	58.77	-4.09	HORIZONTAL	Average
2	0.013	63.47	17.04	0.01	28.46	52.06	58.77	-6.71	HORIZONTAL	Average
3	0.020	61.50	14.21	0.01	28.58	47.14	58.77	-11.63	HORIZONTAL	Average
4	0.034	64.68	12.76	0.02	29.07	48.39	58.77	-10.38	HORIZONTAL	Average
5	0.048	59.06	12.23	0.03	29.25	42.07	58.77	-16.70	HORIZONTAL	Average
6	0.070	56.07	12.01	0.03	29.34	38.77	58.77	-20.00	HORIZONTAL	Average



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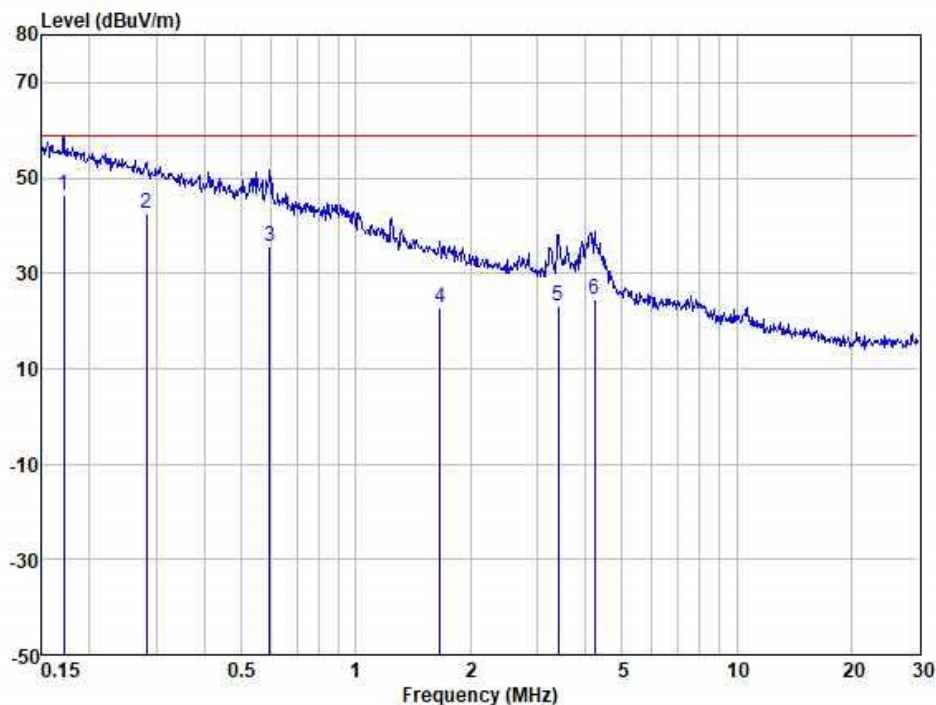
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Test Mode: 00; Polarity: Horizontal



Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.171	63.90	11.86	0.04	29.40	46.40	58.77	-12.37	HORIZONTAL	Average
2	0.282	59.87	11.87	0.05	29.40	42.39	58.77	-16.38	HORIZONTAL	Average
3	0.595	53.14	11.81	0.07	29.40	35.62	58.77	-23.15	HORIZONTAL	Average
4	1.662	40.28	11.84	0.10	29.39	22.83	58.77	-35.94	HORIZONTAL	Average
5	3.399	40.57	11.77	0.20	29.34	23.20	58.77	-35.57	HORIZONTAL	Average
6	4.247	42.15	11.61	0.23	29.32	24.67	58.77	-34.10	HORIZONTAL	Average



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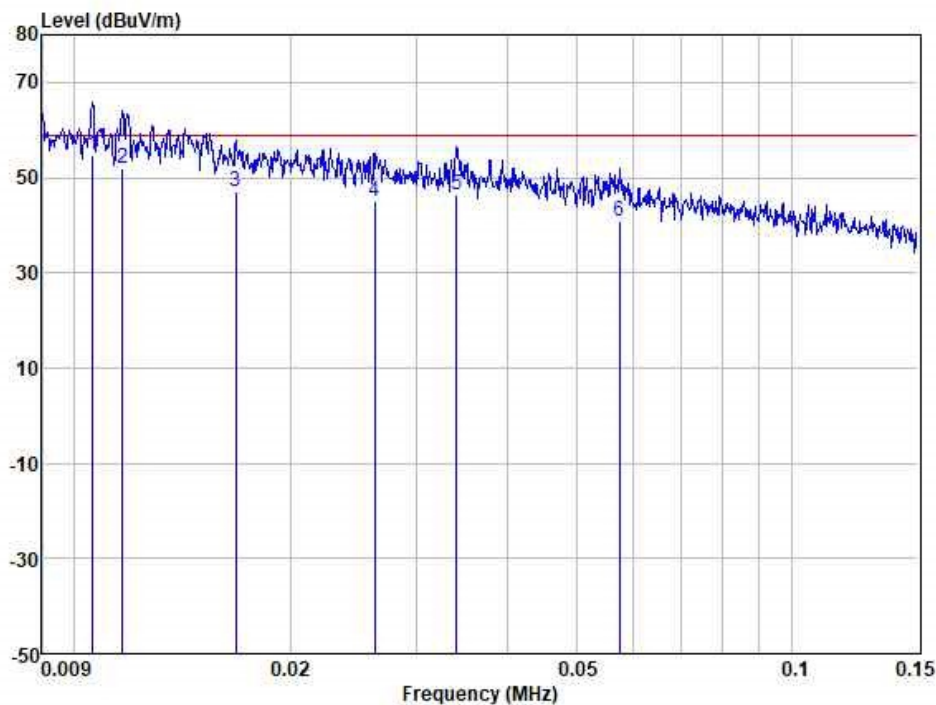
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Test Mode: 00; Polarity: Vertical



Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.011	64.64	18.41	0.01	28.42	54.64	58.77	-4.13	VERTICAL	Average
2	0.012	62.47	17.91	0.01	28.44	51.95	58.77	-6.82	VERTICAL	Average
3	0.017	60.68	14.80	0.01	28.52	46.97	58.77	-11.80	VERTICAL	Average
4	0.026	60.60	13.26	0.02	28.73	45.15	58.77	-13.62	VERTICAL	Average
5	0.034	62.68	12.74	0.02	29.07	46.37	58.77	-12.40	VERTICAL	Average
6	0.057	58.01	12.12	0.03	29.30	40.86	58.77	-17.91	VERTICAL	Average



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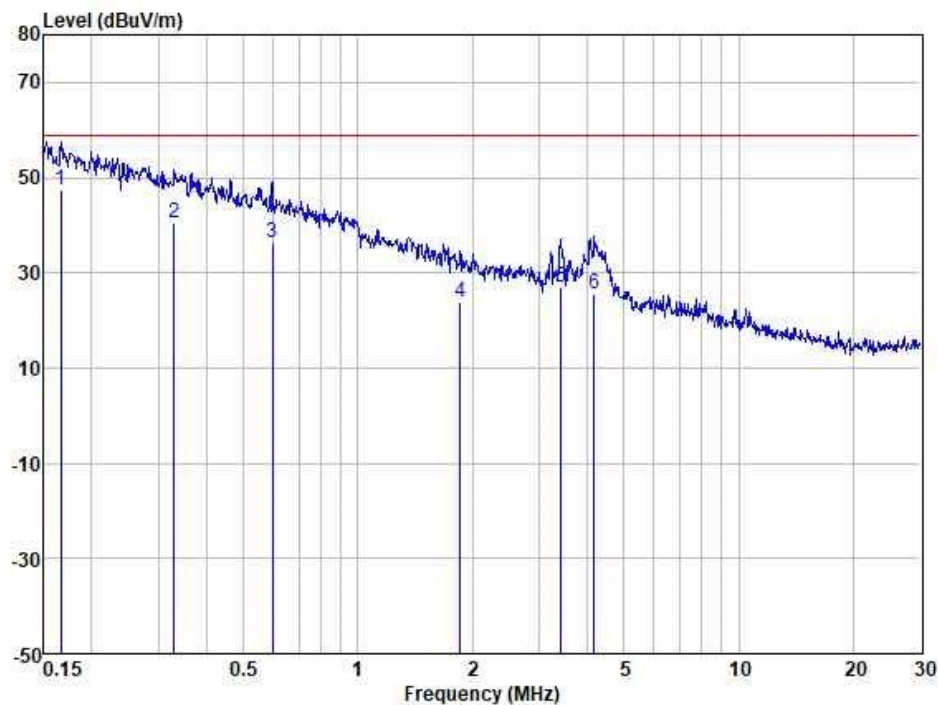
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Test Mode: 00; Polarity: Vertical



Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.166	64.99	11.87	0.04	29.40	47.50	58.77	-11.27	VERTICAL	Average
2	0.330	57.88	11.87	0.06	29.40	40.41	58.77	-18.36	VERTICAL	Average
3	0.598	53.71	11.81	0.07	29.40	36.19	58.77	-22.58	VERTICAL	Average
4	1.858	41.12	11.84	0.11	29.39	23.68	58.77	-35.09	VERTICAL	Average
5	3.417	44.32	11.77	0.20	29.34	26.95	58.77	-31.82	VERTICAL	Average
6	4.180	43.07	11.63	0.22	29.32	25.60	58.77	-33.17	VERTICAL	Average



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6.3 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 18
 Test Method: FCC/OST MP-5:1986
 Test Engineer: Bob Qu
 Limit:
 Measurement Distance: 10 m
 Frequency Range: 30 MHz to 1 GHz
 Detector: Peak for pre-scan, average for the final result
 (120 kHz Resolution Bandwidth for 30 MHz to 1 GHz)

Equipment:	Operating frequency:	RF Power generated by equipment (watts):	Limit dB(uV/m) average:
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	669.8	Limit=20lg(25*SQRT(669.8/500))+20lg(300/10)= 58.77 dBuV/m @ 10m distance.

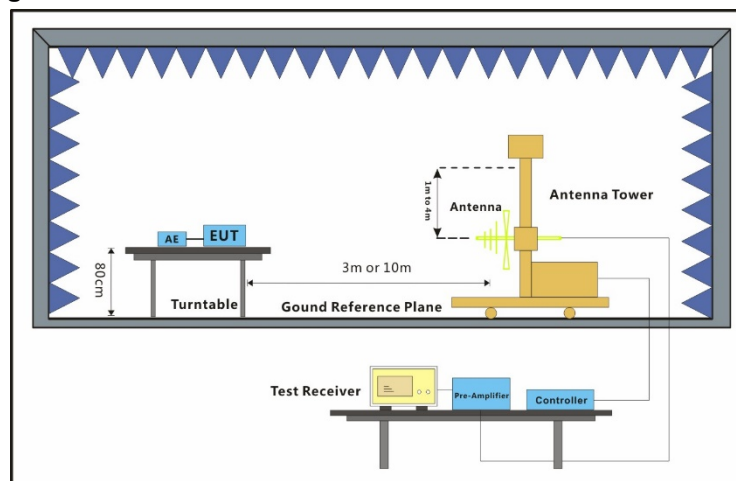
6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.7 °C Humidity: 54.6 % RH Atmospheric Pressure: 1007 mbar

6.3.2 Test Mode Description

Pre-scan/ Mode	Description
Final test Code	
Final test 00	Test the EUT in microwave mode with maximum power.
Pre-scan 01	Test the EUT in microwave mode with middle power.
Pre-scan 02	Test the EUT in microwave mode with lowest power.

6.3.3 Test Setup Diagram



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6.3.4 Measurement Procedure and Data

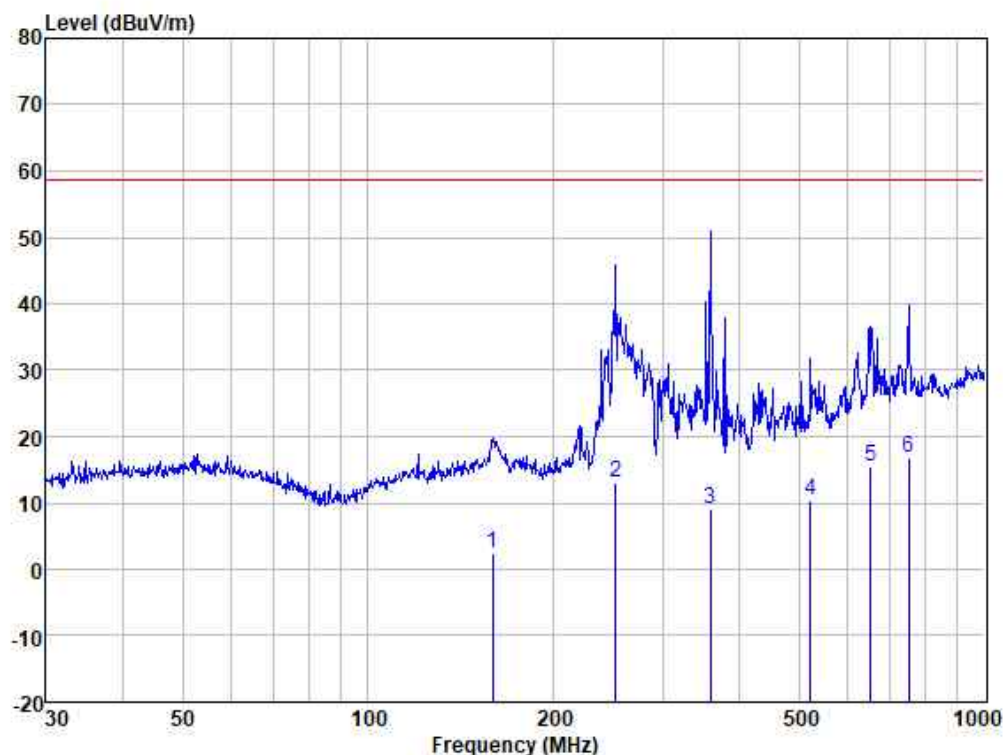
Frequency range: 30MHz-1GHz

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Test Mode: 00; Polarity: Horizontal



Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	159.225	15.33	13.67	1.02	27.70	2.32	58.77	-56.45	HORIZONTAL	Average
2	252.063	27.03	11.85	1.54	27.27	13.15	58.77	-45.62	HORIZONTAL	Average
3	359.186	20.16	14.62	1.78	27.40	9.16	58.77	-49.61	HORIZONTAL	Average
4	522.718	18.52	18.45	1.92	28.49	10.40	58.77	-48.37	HORIZONTAL	Average
5	654.232	21.36	20.47	2.15	28.39	15.59	58.77	-43.18	HORIZONTAL	Average
6	752.743	20.66	21.95	2.45	28.31	16.75	58.77	-42.02	HORIZONTAL	Average



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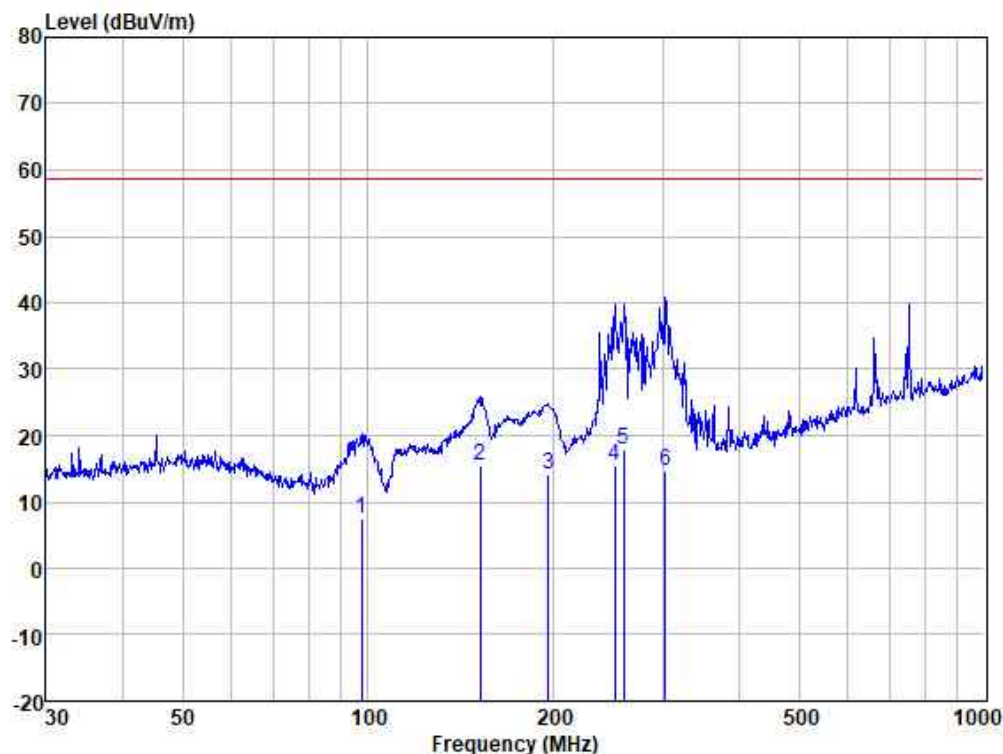
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Test Mode: 00; Polarity: Vertical



Site : SGS
Job :
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	97.456	25.80	8.65	0.84	27.80	7.49	58.77	-51.28	VERTICAL	Average
2	152.130	28.69	13.59	0.99	27.72	15.55	58.77	-43.22	VERTICAL	Average
3	195.822	30.03	10.36	1.18	27.54	14.03	58.77	-44.74	VERTICAL	Average
4	251.180	29.45	11.82	1.54	27.27	15.54	58.77	-43.23	VERTICAL	Average
5	260.144	31.48	12.07	1.58	27.26	17.87	58.77	-40.90	VERTICAL	Average
6	303.544	26.51	13.54	1.69	27.21	14.53	58.77	-44.24	VERTICAL	Average



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6.4 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 18
 Test Method: FCC/OST MP-5:1986
 Test Engineer: Lily Kuang
 Limit:
 Measurement Distance: 3 m
 Frequency Range: Above 1GHz
 Detector: Peak for pre-scan, Average for the final result
 (1MHz Resolution Bandwidth for 1000MHz Above)

Equipment:	Operating frequency:	RF Power generated by equipment (watts):	Limit dB(uV/m) average:
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	669.8	Limit=20lg(25*SQRT(669.8/500))+20lg(300/3)= 69.23 dBuV/m @ 3m distance.

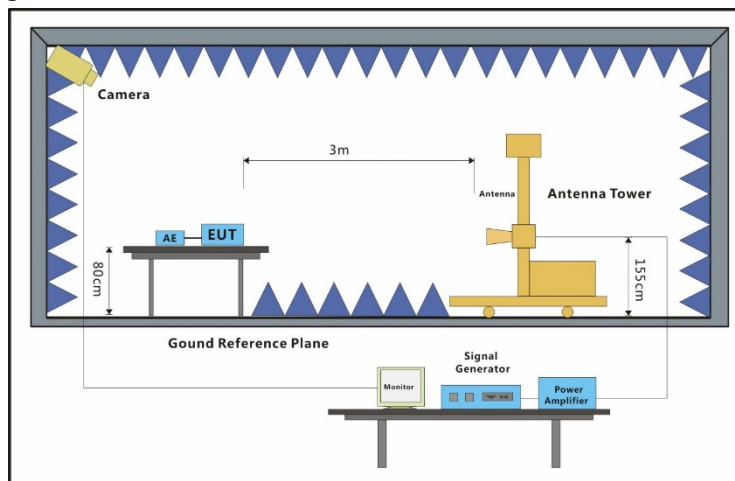
6.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.0 °C Humidity: 51.9 % RH Atmospheric Pressure: 1007 mbar

6.4.2 Test Mode Description

Pre-scan/ Mode	Code	Description
Final test	00	Test the EUT in microwave mode with maximum power.
Pre-scan	01	Test the EUT in microwave mode with middle power.
Pre-scan	02	Test the EUT in microwave mode with lowest power.

6.4.3 Test Setup Diagram



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6.4.4 Measurement Procedure and Data

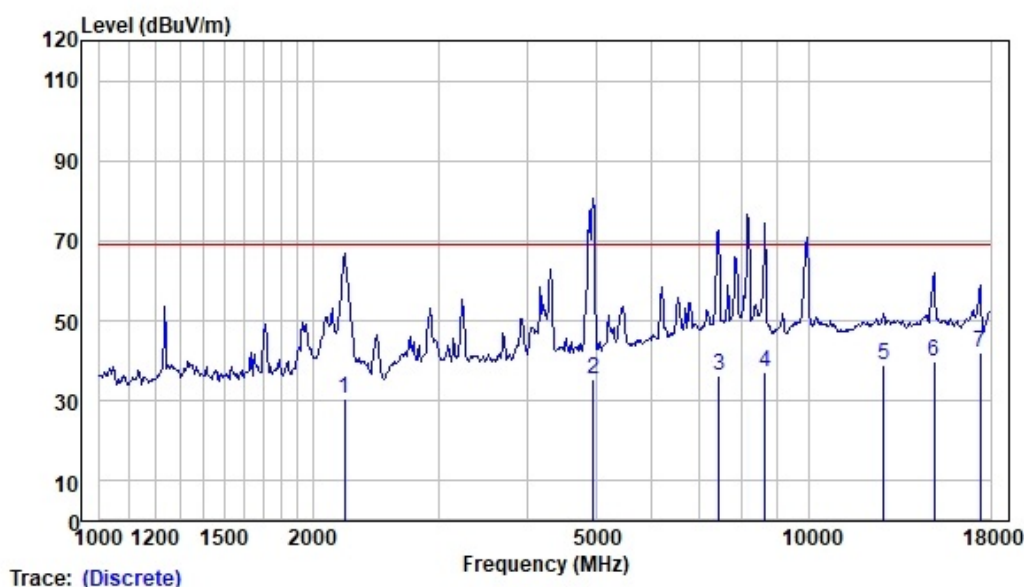
Frequency range: Above 1GHz

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

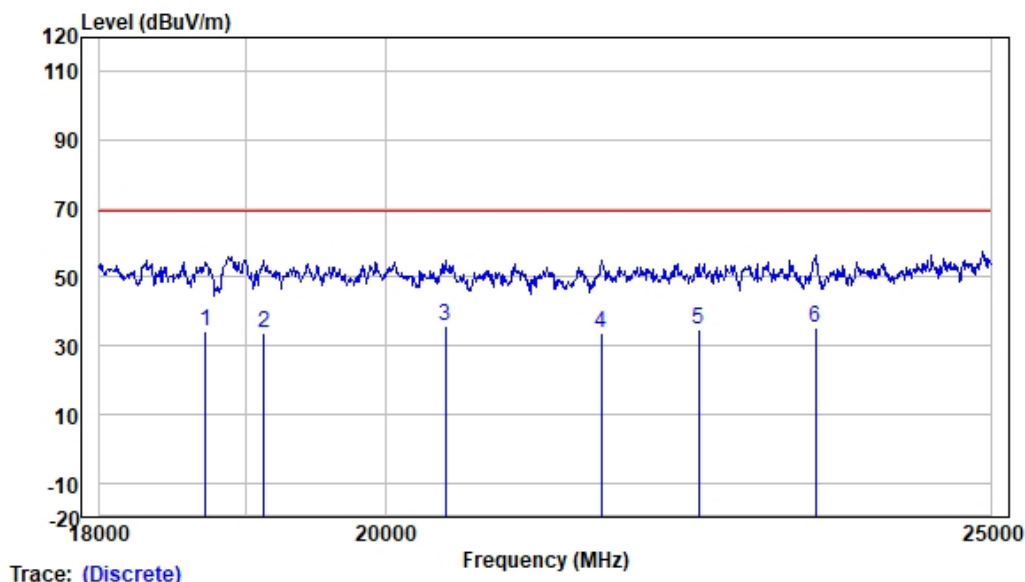
Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Test Mode: 00; Polarity: Vertical



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2214.11	38.07	27.12	3.27	37.79	30.67	69.23	-38.56	VERTICAL	Average
2	4958.38	36.22	31.74	4.89	37.32	35.53	69.23	-33.70	VERTICAL	Average
3	7426.00	30.84	37.04	6.32	37.77	36.43	69.23	-32.80	VERTICAL	Average
4	8663.40	34.00	37.05	6.50	40.14	37.41	69.23	-31.82	VERTICAL	Average
5	12724.47	33.05	39.44	8.03	41.57	38.95	69.23	-30.28	VERTICAL	Average
6	14960.12	33.91	42.04	9.00	45.17	39.78	69.23	-29.45	VERTICAL	Average
7	17386.38	36.28	43.56	9.55	47.47	41.92	69.23	-27.31	VERTICAL	Average

Test Mode: 00; Polarity: Vertical



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	18717.59	33.35	36.98	3.17	39.27	34.23	69.23	-35.00	VERTICAL	Average
2	19127.84	32.90	37.06	3.19	39.40	33.75	69.23	-35.48	VERTICAL	Average
3	20446.90	35.03	37.29	3.10	39.71	35.71	69.23	-33.52	VERTICAL	Average
4	21656.80	32.61	37.57	3.31	39.63	33.86	69.23	-35.37	VERTICAL	Average
5	22446.32	32.63	38.06	3.34	39.22	34.81	69.23	-34.42	VERTICAL	Average
6	23433.36	31.57	38.59	3.38	38.04	35.50	69.23	-33.73	VERTICAL	Average



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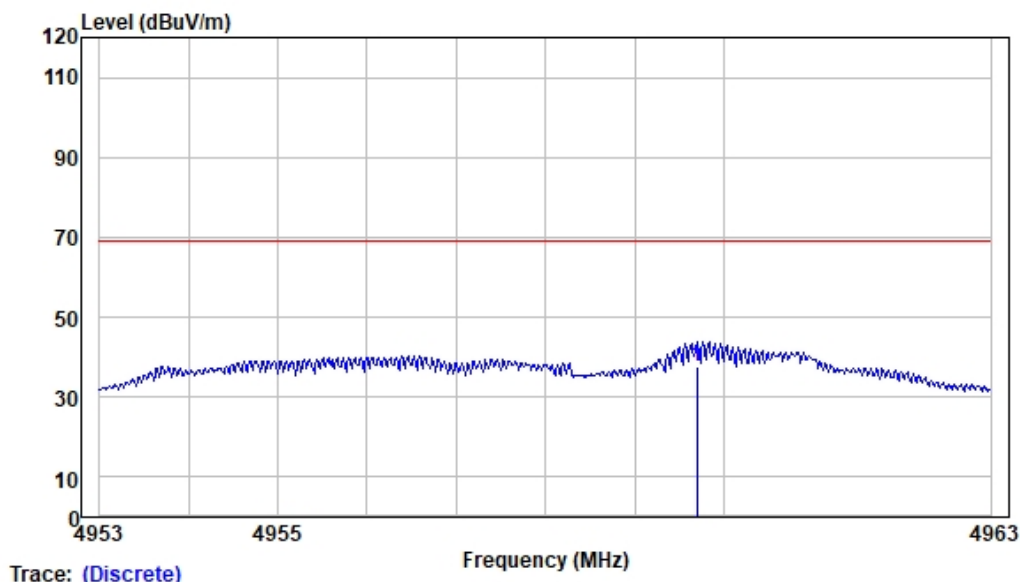
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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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Test Mode: 00; Polarity: Vertical



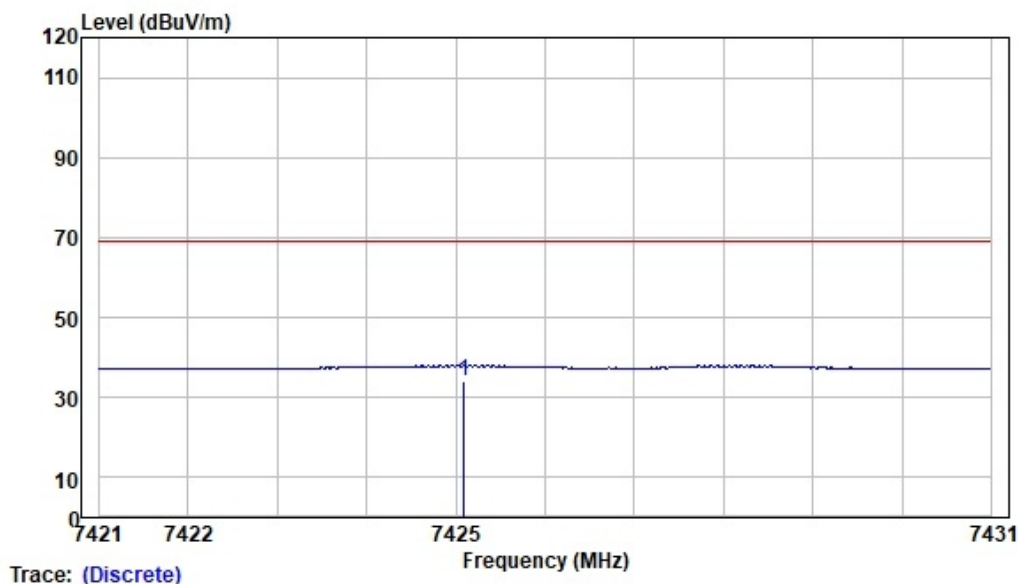
	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	4959.70	38.54	31.74	4.89	37.32	37.85	69.23	-31.38	VERTICAL	Average



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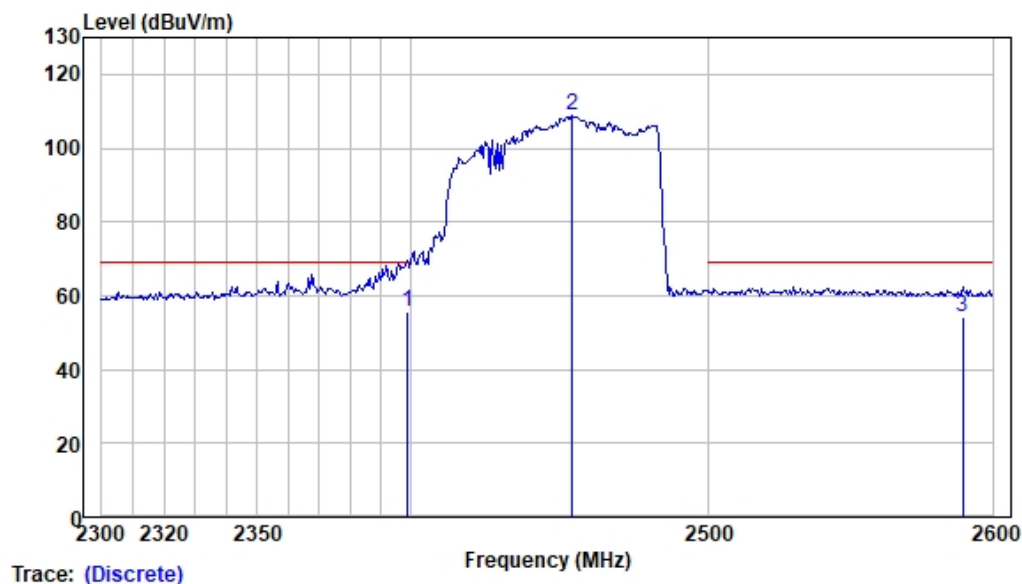
Test Mode: 00; Polarity: Vertical



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	7425.09	27.85	37.04	6.32	37.19	34.02	69.23	-35.21	VERTICAL	Average



Test Mode: 00; Polarity: Vertical



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2399.08	24.66	27.65	3.45	0.00	55.76	69.23	-13.47	VERTICAL	Average
2	2453.81	77.72	27.72	3.47	0.00	108.91	----	----	VERTICAL	Peak
3	2589.19	22.84	27.88	3.53	0.00	54.25	69.23	-14.98	VERTICAL	Average



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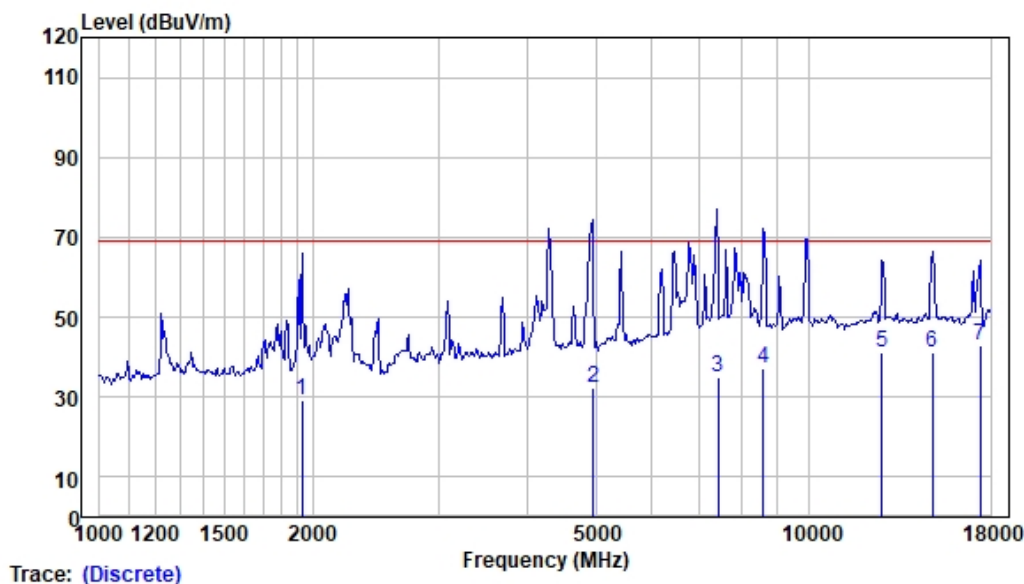
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Guangzhou Branch

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Test Mode: 00; Polarity: Horizontal



	Freq	Read	Antenna	Cable	Preamp	Limit	Over	Pol/	
	MHz	Level	Factor	Loss	Factor	Line	Limit	Phase	Remark
		dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1932.87	37.22	26.60	3.09	37.84	29.07	69.23	-40.16	HORIZONTAL Average
2	4953.81	32.91	31.74	4.89	37.32	32.22	69.23	-37.01	HORIZONTAL Average
3	7429.73	29.75	36.57	6.02	37.18	35.16	69.23	-34.07	HORIZONTAL Average
4	8613.47	33.54	36.97	6.49	39.89	37.11	69.23	-32.12	HORIZONTAL Average
5	12651.13	35.64	39.29	8.00	41.74	41.19	69.23	-28.04	HORIZONTAL Average
6	14873.89	35.39	42.10	8.90	45.12	41.27	69.23	-27.96	HORIZONTAL Average
7	17386.38	37.35	43.56	9.55	47.47	42.99	69.23	-26.24	HORIZONTAL Average



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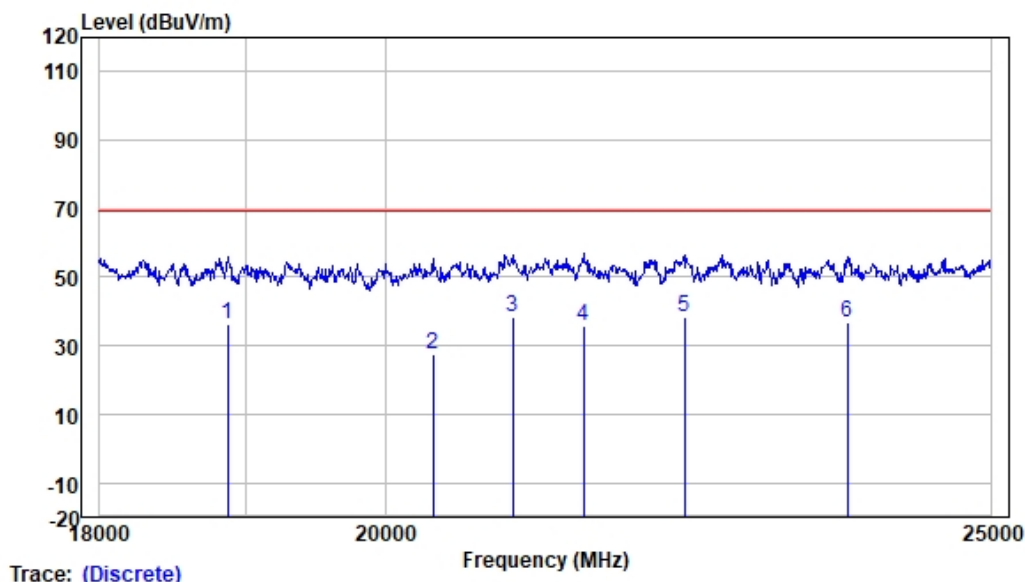
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Test Mode: 00; Polarity: Horizontal



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	18871.94	35.10	37.06	3.20	39.29	36.07	69.23	-33.16	HORIZONTAL	Average
2	20353.08	27.20	37.25	3.07	39.97	27.55	69.23	-41.68	HORIZONTAL	Average
3	20963.81	36.48	37.68	3.22	38.76	38.62	69.23	-30.61	HORIZONTAL	Average
4	21514.98	34.21	37.60	3.28	39.37	35.72	69.23	-33.51	HORIZONTAL	Average
5	22328.65	36.70	37.94	3.34	39.47	38.51	69.23	-30.72	HORIZONTAL	Average
6	23712.13	32.71	38.64	3.42	37.87	36.90	69.23	-32.33	HORIZONTAL	Average



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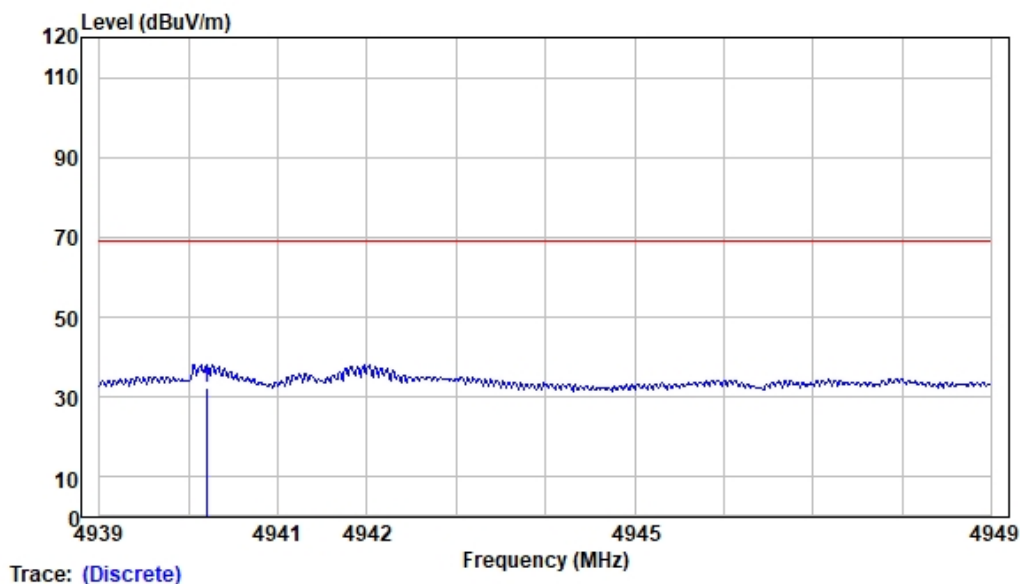
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Test Mode: 00; Polarity: Horizontal



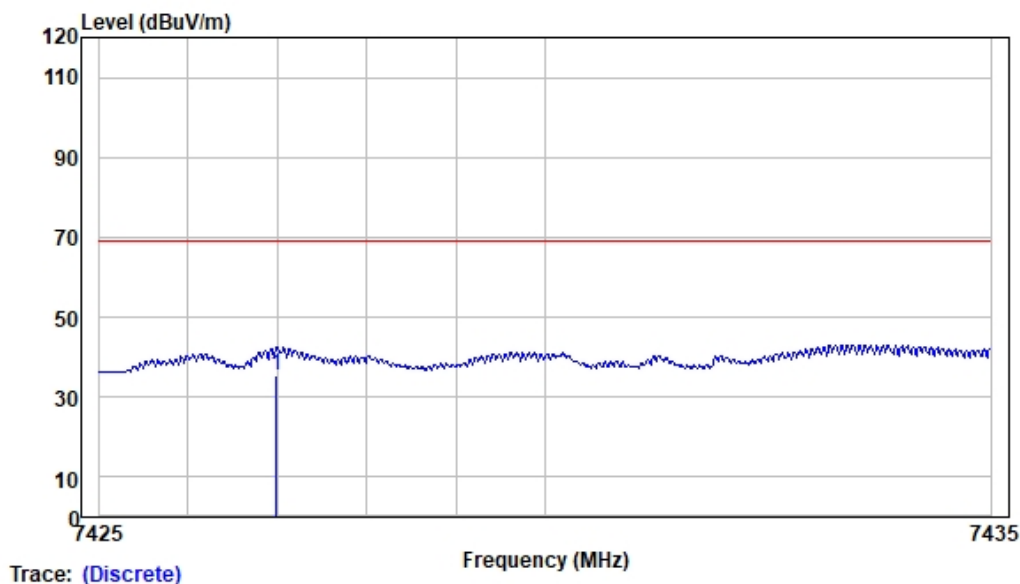
	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	4940.20	32.94	31.72	4.88	37.33	32.21	69.23	-37.02	HORIZONTAL	Average



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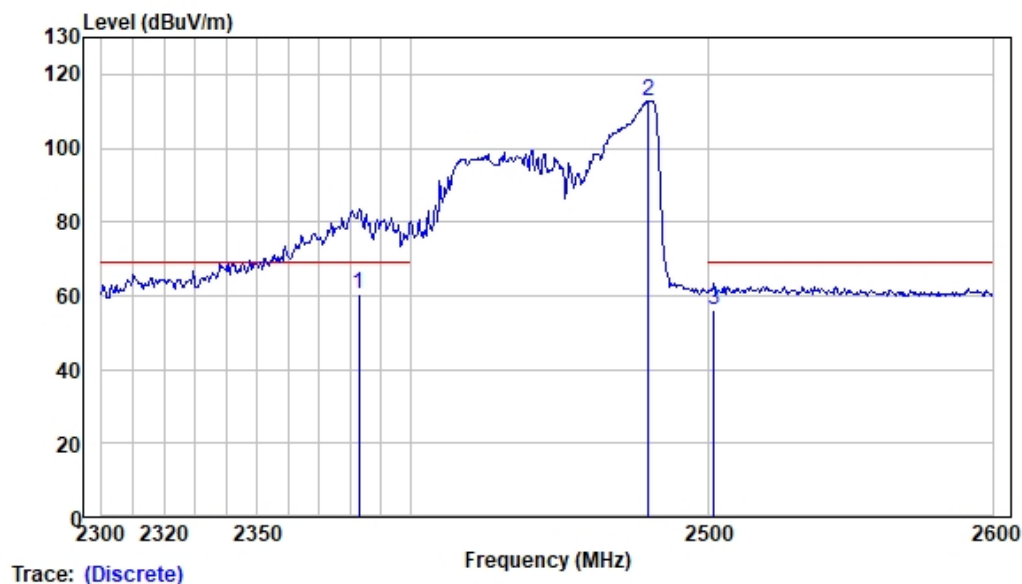
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	7426.99	29.99	36.57	6.02	37.18	35.40	69.23	-33.83	HORIZONTAL	Average



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Test Mode: 00; Polarity: Horizontal



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2382.96	29.22	27.62	3.44	0.00	60.28	69.23	-8.95	HORIZONTAL	Average
2	2479.82	81.64	27.75	3.48	0.00	112.87	----	----	HORIZONTAL	Peak
3	2502.12	24.90	27.77	3.49	0.00	56.16	69.23	-13.07	HORIZONTAL	Average



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6.5 Output Power Measurement

Test Requirement: 47 CFR Part 18
 Test Method: FCC OST/MP-5:1986
 Test Engineer:

Power output Measurement:

Formula:

$$P = \frac{4,187 \cdot m_w (T_2 - T_1) + 0,55 \cdot m_c (T_2 - T_0)}{t}$$

NOTE :

P is the microwave power output, in watts
 m_w is the mass of the water, in grams
 m_c is the mass of the container, in grams
 T₀ is the ambient temperature, in degrees Celsius
 T₁ is the initial temperature of the water, in degrees Celsius
 T₂ is the final temperature of the water, in degrees Celsius
 t is the heating time, in seconds, excluding the magnetron filament heating-up time.

Input Power Measurement:

The EUT was set up according to the MP-5 for input power measurement, the input power and current was measured using a power analyzer. Water load in a beaker was located in the center of the oven and the microwave oven was set to maximum power.

Base on the measured input power it was found that the microwave oven can operating as the user manual's specifications.

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C Humidity: 52.4 % RH Atmospheric Pressure: 1007 mbar

6.5.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	Test the EUT in microwave mode with maximum power.



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6.5.3 Measurement Procedure and Data

Output Power Data

Mass of water (g)	Mass of the container (g)	Ambient temperature (°C)	Initial temperature (°C)	Final temperature (°C)	Heating time (s)	Power output (W)
1002	513	20.4	10.5	19.8	58	669.8

Input Power Data

Input Voltage (V)	Input Current (A)	Power Factor	Measured input power (W)	Rated input power (W)
119.7	9.52	0.929	1059	1100



6.6 Operating Frequency Measurement

Test Requirement: 47 CFR Part 18
 Test Method: FCC OST/MP-5:1986
 Test Engineer: Lily Kuang
 Limit:
 Frequency Range: 2400-2500 MHz
 Detector: Average for the final result for outside ISM band(2450MHz±50MHz)
 Outside band limit: (a) ISM equipment operation on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.
 (b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

RF Power generated by equipment(watts)	Field strength Limit(uV/m) @300m
Below 500	25
500 or more	$25 \times \sqrt{\text{power}/500}$

Power =669.8 W according to clause 6.5.3

Limit= $20 \lg(25 \times \sqrt{\text{power}/500}) + 20 \lg(300/3) = 69.23 \text{ dBuV/m @ 3m distance}$.

ISM band: ISM equipment may be operated on any frequency above 9 kHz.

And the frequency band 2400-2500MHz is allocated for use by ISM equipment.

(§18.301)

ISM frequency	Tolerance
6.78MHz	±15.0kHz
13.56MHz	±7.0kHz
27.12MHz	±163.0kHz
40.68MHz	±20.0kHz
915MHz	±13.0MHz
2450MHz	±50.0MHz
5800MHz	±75.0MHz
24125MHz	±125.0MHz
61.25GHz	±250.0MHz
122.5GHz	±500.0MHz
245.00GHz	±1.0GHz

6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0 °C Humidity: 51.9 % RH Atmospheric Pressure: 1007 mbar

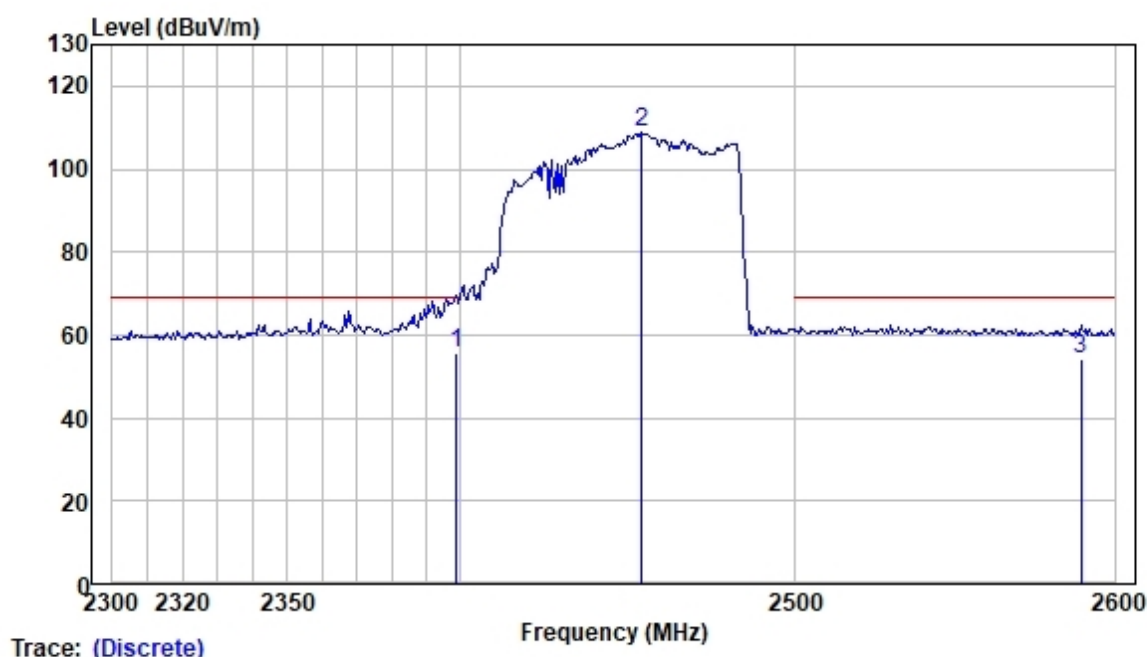


6.6.2 Test Mode Description

Pre-scan/	Mode	Description
Final test	Code	
Final test	00	Test the EUT in microwave mode with maximum power.
Pre-scan	01	Test the EUT in microwave mode with middle power.
Pre-scan	02	Test the EUT in microwave mode with lowest power.

6.6.3 Measurement Procedure and Data

Test Mode: 00; The variation of frequency with time



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2399.08	24.66	27.65	3.45	0.00	55.76	69.23	-13.47	VERTICAL	Average
2	2453.81	77.72	27.72	3.47	0.00	108.91	----	----	VERTICAL	Peak
3	2589.19	22.84	27.88	3.53	0.00	54.25	69.23	-14.98	VERTICAL	Average

The variation of frequency with time

The operating frequency was measured using a spectrum analyzer, the supply voltage was setting at the rated AC voltage, measured was start with EUT at room temperature, the operating frequency was monitored until the water load was reduced to 20 percent of the original quantity.

Test record was found the worst situation is when the water load is reduced to 20 percent of the original quantity.

ISM frequency(MHz)	Tolerance(MHz)	Measurement Data(MHz)
2450	±50	2453.81



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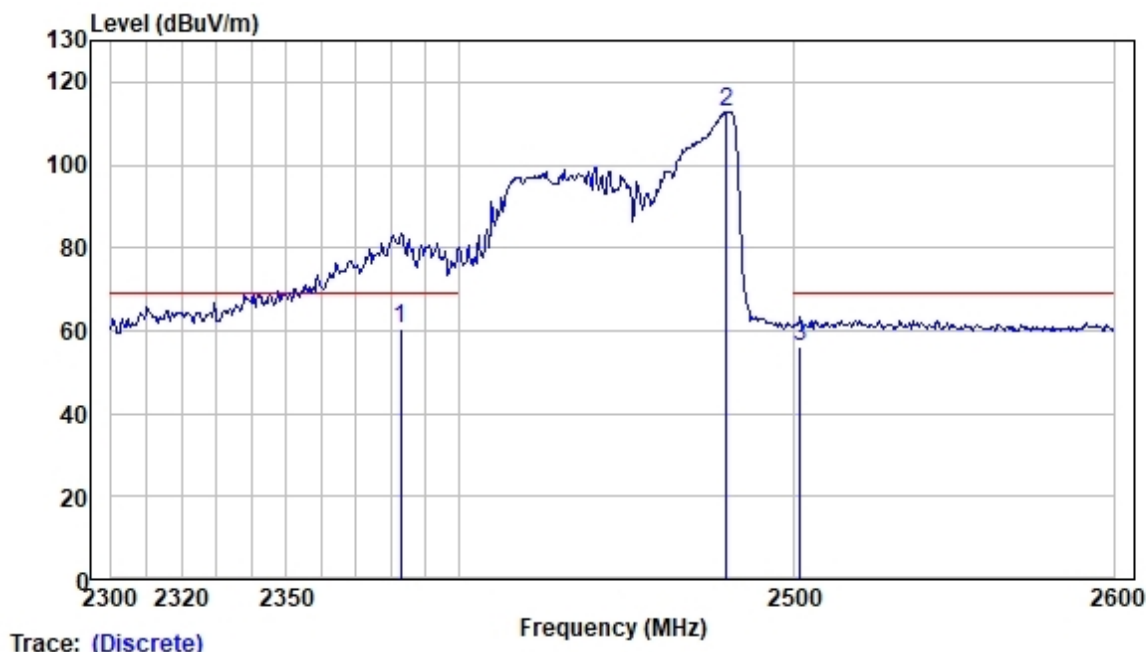
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Guangzhou Branch, Testing & Calibration Laboratory

No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgs.com.cn
t (86-20) 82155555 sgs.china@sgs.com

Test Mode: 00; The variation of frequency with line voltage



	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2382.96	29.22	27.62	3.44	0.00	60.28	69.23	-8.95	HORIZONTAL	Average
2	2479.82	81.64	27.75	3.48	0.00	112.87	----	----	HORIZONTAL	Peak
3	2502.12	24.90	27.77	3.49	0.00	56.16	69.23	-13.07	HORIZONTAL	Average

The variation of frequency with line voltage.

The operating frequency was measured using a spectrum analyzer, the supply voltage was setting at the rated AC voltage, measured was start with EUT at room temperature. The EUT was started to warm by at least 10 minutes, the operating frequency was monitored as the rated voltage was varied from 80% to 125%.

Test record was found the worst situation is when the line voltage is 125% of rated AC voltage.

ISM frequency(MHz)	Tolerance(MHz)	Measurement Data(MHz)
2450	±50	2479.82



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Guangzhou Branch

No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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6.7 Radiation Hazard Test

Test Requirement: 47 CFR Part 18
 Test Method: FCC OST/MP-5:1986
 Test Engineer: Bob Qu

6.7.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.7 °C Humidity: 54.8 % RH Atmospheric Pressure: 1007 mbar

6.7.2 Test Mode Description

Pre-scan/ Mode	Description
Final test Code	
Final test 00	Test the EUT in microwave mode with maximum power.
Pre-scan 01	Test the EUT in microwave mode with middle power.
Pre-scan 02	Test the EUT in microwave mode with lowest power.

6.7.3 Measurement Procedure and Data

Maximum measure level (mW/cm2)	Limit (mW/cm2)	Test Result
0.019	1	Pass



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No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
 中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZEM240100022018



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Guangzhou Branch (EMC) ELEC Laboratory

No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
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8 EUT Constructional Details (EUT Photos)

Refer to Appendix_Photographs of EUT Constructional Details for GZEM2602001186HS

- End of the Report -



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