

EMC-TRF-01 Rev 1.1 Report No.: GZEM230300129802

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# TEST REPORT

Application No.: GZEM2303001298HS

Applicant: Guangdong Galanz Enterprises Co., Ltd.

Address of Applicant: 25 Ronggui Nan Road, Shunde, Foshan, Guangdong, China

Manufacturer: Guangdong Galanz Microwave Electrical Appliances Manufacturing Co..

Ltd.

Address of Manufacturer: 3 Xingpu Avenue, Huangpu, Zhongshan, Guangdong, China.

Factory: 1. Guangdong Galanz Microwave Electrical Appliances Manufacturing Co.,

Ltd.

2. Guangdong Galanz Microwave Oven and Electrical Appliances

Manufacturing Co., Ltd.

Address of Factory: 1. 3 Xingpu Avenue, Huangpu, Zhongshan, Guangdong, China.

2. 25 Ronggui Nan Road, Shunde, Foshan, Guangdong, China

**Equipment Under Test (EUT):** 

**EUT Name:** Microwave Oven

Model No.: P120D60(X)-(Y), P120D60(X)H-(Y), P120D60(X)H-(Y)-FR\*\* ♣

Please refer to section 2 of this report which indicates which item was

actually tested and which were electrically identical.

Trade Mark: Galanz

Standard(s): 47 CFR Part 18

Date of Receipt: 2023-03-20

**Date of Test:** 2023-03-24 to 2023-03-30

Date of Issue: 2023-05-12

Test Result: Pass\*

Cody Liu Ricky Liu



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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Revision Record					
Version Report No. Date Remark					
01	GZEM230300129802	2023-05-12	Original		

Authorized for issue by:			
	Damon. Guan		
	Damon Guan/Project Engineer	_	
	Teny lij		
	Terry Lai/Reviewer	_	



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## 2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)		FCC/OST MP-5:1986	18.307	Pass
Radiated Emissions (Magnetic field Strength)(9kHz- 30MHz)		FCC/OST MP-5:1986	18.305	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 18	FCC/OST MP-5:1986	18.305	Pass
Radiated Emissions (above 1GHz)		FCC/OST MP-5:1986	18.305	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/cm <sup>2</sup>	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.

Model No.: P120D60(X)-(Y), P120D60(X)H-(Y), P120D60(X)H-(Y)-FR\*\*

P: with microwave function only

120: denote the output power is 1200W D60: denote different cavity in 60liters.

Variable (X) may be

A, AP, ASL, ASP, ATL, ATP, EL, EP, ESL, ESP, ETL, ETP, ML, MP, MSL, MSP, MTL, MTP, MYL.

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.

\*could be from 0 to 9

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 P120D60APH-SU was tested in this report.



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### 4 General Information

### 4.1 Details of E.U.T.

Power supply: 120V, 60Hz Microwave frequency: 2450MHz

Cable(s): About 1.0m x 3 wires unscreened AC mains cable.

### 4.2 Description of Support Units

Load for microwave ovens for testing:

1200mL of water in the beaker for power output and frequency measurement.

One of 840 and the other of 360mL of water for second and third harmonic radiation

measurement.

840mL of water for all other measurement

### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	2.76dB (150kHz to 30MHz)
Radiated Emissions (Magnetic field Strength)(9kHz- 30MHz)	3.08dB(9kHz to 150kHz), 3.12dB(150kHz to 30MHz) (LLAS)
Dediated Emissions (20ML = 10L=)	5.00dB (30MHz-1GHz):3m;
Radiated Emissions (30MHz-1GHz)	4.38dB (30MHz-1GHz):10m
	5.12dB (1GHz-6GHz);
Radiated Emissions (above 1GHz)	5.38dB (6GHz-18GHz);
	5.61(18GHz-40GHz)

#### Remark:

The U<sub>lab</sub> (lab Uncertainty) is less than U<sub>cispr</sub> (CISPR Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, 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:

#### 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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## 5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Coaxial Cable	HangTianXing	2m	EMC0107	2022-08-24	2023-08-23	
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2022-10-16	2025-10-15	
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2022-09-09	2023-09-08	
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2022-05-20	2023-05-19	
Test Software E3r	Audix	Ver.6.11812	GZE100-77	N/A	N/A	
Artificial Mains Network (LISN)	AFJ Instruments	LT32C	EMC2046	2022-10-21	2023-10-20	

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	2022-10-16	2025-10-15	
Chamber cable	HangTianXing	N/A	EMC0542	2022-08-24	2023-08-23	
Amplifier (9kHz-1.3GHz)	HP	8447F	EMC2065	2022-06-21	2023-06-20	
Active Loop Antenna- RED	ETS-Lindgren	6502	EMC2190	2022-04-06	2024-04-05	
EMI Test Receiver (1Hz- 8GHz)	Rohde & Schwarz	ESW8	EMC2220	2022-05-20	2023-05-19	
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	2022-10-16	2025-10-15	
Chamber cable	HangTianXing	N/A	EMC0542	2022-08-24	2023-08-23	
Amplifier (9kHz-1.3GHz)	HP	8447F	EMC2065	2022-06-21	2023-06-20	
EMI Test Receiver (1Hz- 8GHz)	Rohde & Schwarz	ESW8	EMC2220	2022-05-20	2023-05-19	
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A	
Trilog Broadband Antenna (25MHz-1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	EMC2174	2022-06-19	2025-06-18	



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Radiated Emissions (above 1GHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
1GHz-26.5 GHz Pre- Amplifier	Agilent	8449B	EMC0521	2022-12-16	2023-12-15	
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2022-12-16	2023-12-15	
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23	
Horn Antenna (1GHz- 18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22	
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2022-09-08	2023-09-07	
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19	
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2022-12-16	2023-12-15	
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A	

Operating Frequency Measurement						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2022-12-16	2023-12-15	
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23	
Horn Antenna (1GHz- 18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22	
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19	
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A	

F	Radiation Hazard Test						
	Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
	Electric Field Probe(100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2022-05-13	2023-05-12	

General used equipment	t				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2022-06-24	2023-06-23



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### 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

Limit:

Frequency Range: 150kHz to 30MHz

0.15 to 0.5 MHz:  $66dB(\mu V)$ - $56dB(\mu V)$  quasi-peak,  $56dB(\mu V)$ - $46dB(\mu V)$  average

0.5 to 5 MHz: 56dB( $\mu$ V) quasi-peak, 46dB( $\mu$ V) average 5 to 30 MHz: 60dB( $\mu$ V) quasi-peak, 50dB( $\mu$ V) average

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 53.9 % RH Atmospheric Pressure: 1020 mbar

### 6.1.2 Test Mode Description

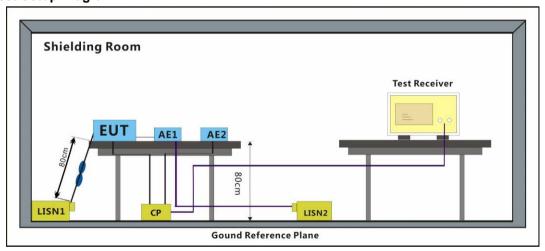
Pre-scan / Mode Final test Code Description

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.

#### 6.1.3 Test Setup Diagram



#### 6.1.4 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



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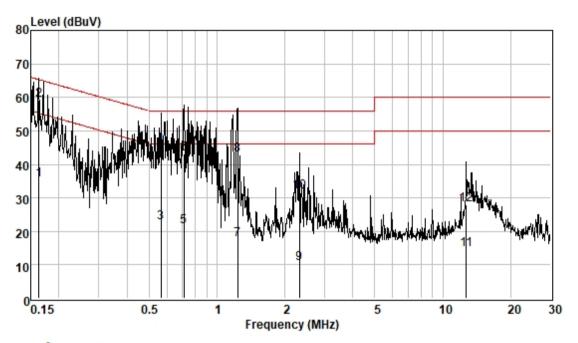


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Test Mode: 00; Line: Live line



Pol :LINE Mode : Model : Power :

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.163	25.62	0.06	9.61	35.29	55.30	-20.01	Average
2	0.163	49.52	0.06	9.61	59.19	65.30	-6.11	QP
3	0.564	12.84	0.07	9.60	22.51	46.00	-23.49	Average
4	0.564	35.77	0.07	9.60	45.44	56.00	-10.56	QP
5	0.716	11.61	0.07	9.60	21.28	46.00	-24.72	Average
6	0.716	33.57	0.07	9.60	43.24	56.00	-12.76	QP
7	1.236	7.73	0.08	9.60	17.41	46.00	-28.59	Average
8	1.236	33.09	0.08	9.60	42.77	56.00	-13.23	QP
9	2.321	0.77	0.13	9.62	10.52	46.00	-35.48	Average
10	2.321	22.18	0.13	9.62	31.93	56.00	-24.07	QP
11	12.716	4.58	0.26	9.69	14.53	50.00	-35.47	Average
12	12.716	17.95	0.26	9.69	27.90	60.00	-32.10	QP



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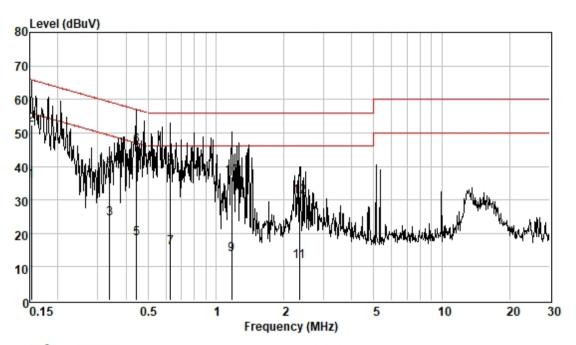


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Test Mode: 00; Line: Neutral Line



Pol :NEUTRAL

Mode : Model : Power :

		Read	Cable	LISN	Measured		0ver	
	Frequenc	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.152	26.11	0.06	9.63	35.80	55.87	-20.07	Average
2	0.152	42.72	0.06	9.63	52.41	65.87	-13.46	QP
3	0.339	14.65	0.06	9.61	24.32	49.22	-24.90	Average
4	0.339	29.86	0.06	9.61	39.53	59.22	-19.69	QP
5	0.444	8.62	0.06	9.61	18.29	46.98	-28.69	Average
6	0.444	36.50	0.06	9.61	46.17	56.98	-10.81	QP
7	0.630	6.21	0.07	9.62	15.90	46.00	-30.10	Average
8	0.630	29.98	0.07	9.62	39.67	56.00	-16.33	QP
9	1.172	4.03	0.08	9.61	13.72	46.00	-32.28	Average
10	1.172	27.26	0.08	9.61	36.95	56.00	-19.05	QP
11	2.346	1.97	0.13	9.61	11.71	46.00	-34.29	Average
12	2.346	21.29	0.13	9.61	31.03	56.00	-24.97	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

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)	therwise specified Any ISM frequency		Limit=20lg(25*SQRT( <b>1174.0</b> / 500))+20lg(300/10)= <b>61.21</b> <b>dBuV/m</b>
(miscellaneous)			@ 10m distance.

### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

# 6.2.2 Test Mode Description Pre-scan / Mode

Final test	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.



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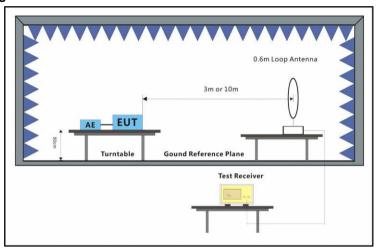


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### 6.2.3 Test Setup Diagram



#### 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



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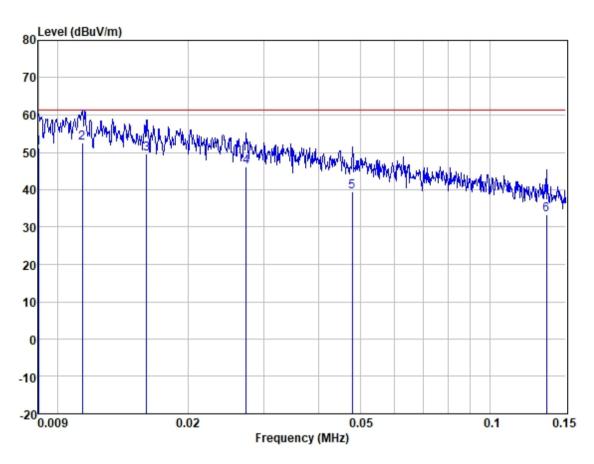


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Test Mode: 00; Polarity: Horizontal



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

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.009	60.75	18.96	0.02	28.40	51.33	61.21	-9.88	HORIZONTAL	Average
2	0.011	63.00	18.06	0.02	28.44	52.64	61.21	-8.57	HORIZONTAL	Average
3	0.016	63.09	15.03	0.02	28.51	49.63	61.21	-11.58	HORIZONTAL	Average
4	0.027	61.72	13.14	0.02	28.77	46.11	61.21	-15.10	HORIZONTAL	Average
5	0.048	56.40	12.23	0.03	29.25	39.41	61.21	-21.80	HORIZONTAL	Average
6	0.135	50.85	11.91	0.05	29.40	33.41	61.21	-27.80	HORIZONTAL	Average



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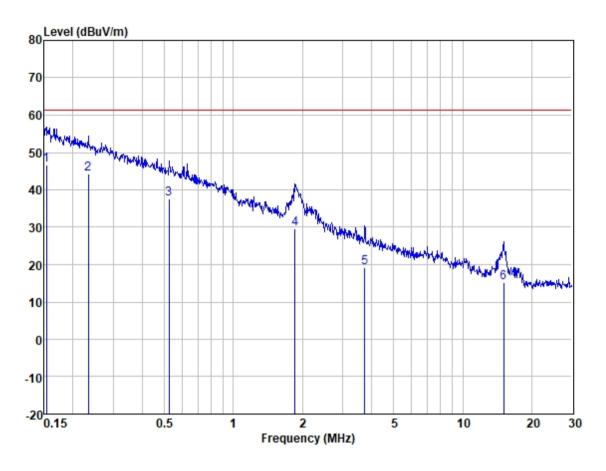


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Test Mode: 00; Polarity: Horizontal



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

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.153	64.25	11.88	0.05	29.40	46.78	61.21	-14.43	HORIZONTAL	Average
2	0.233	61.77	11.86	0.05	29.40	44.28	61.21	-16.93	HORIZONTAL	Average
3	0.524	55.14	11.80	0.07	29.40	37.61	61.21	-23.60	HORIZONTAL	Average
4	1.858	46.95	11.84	0.17	29.40	29.56	61.21	-31.65	HORIZONTAL	Average
5	3.740	36.58	11.69	0.32	29.32	19.27	61.21	-41.94	HORIZONTAL	Average
6	15.066	34.01	9.77	0.59	29.20	15.17	61.21	-46.04	HORIZONTAL	Average



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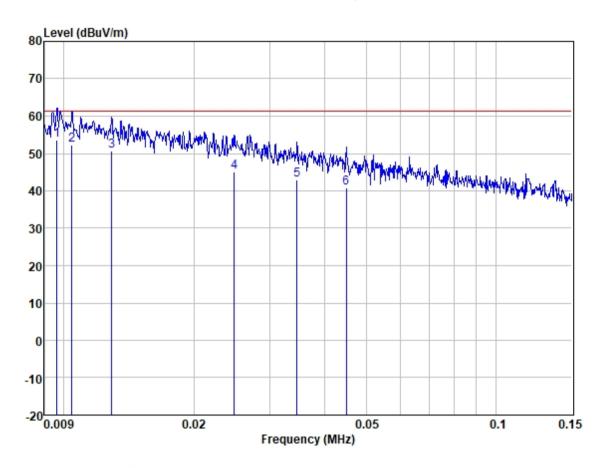


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Test Mode: 00; Polarity: Vertical



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

	Freq					Measured Level		Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.010	63.30	18.77	0.02	28.41	53.68	61.21	-7.53	VERTICAL	Average
2	0.010	62.13	18.47	0.02	28.42	52.20	61.21	-9.01	VERTICAL	Average
3	0.013	61.91	17.13	0.02	28.46	50.60	61.21	-10.61	VERTICAL	Average
4	0.025	60.11	13.49	0.02	28.68	44.94	61.21	-16.27	VERTICAL	Average
5	0.035	59.37	12.69	0.03	29.09	43.00	61.21	-18.21	VERTICAL	Average
6	0.045	57.57	12.32	0.03	29.22	40.70	61.21	-20.51	VERTICAL	Average



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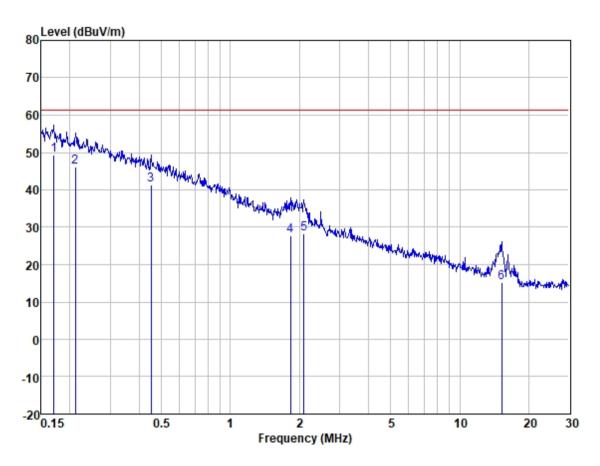


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Test Mode: 00; Polarity: Vertical



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

	Freq	Read Level				Measured Level		Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.170	66.89	11.86	0.05	29.40	49.40	61.21	-11.81	VERTICAL	Average
2	0.212	63.67	11.85	0.05	29.40	46.17	61.21	-15.04	VERTICAL	Average
3	0.452	58.79	11.83	0.06	29.40	41.28	61.21	-19.93	VERTICAL	Average
4	1.829	45.25	11.84	0.17	29.40	27.86	61.21	-33.35	VERTICAL	Average
5	2.099	45.69	11.84	0.20	29.40	28.33	61.21	-32.88	VERTICAL	Average
6	15.226	33.93	9.75	0.59	29.20	15.07	61.21	-46.14	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

Limit:

Measurement Distance: 3 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	1174.0	Limit=20lg(25*SQRT( <b>1174.0</b> / 500))+20lg(300/3)= <b>71.67</b> <b>dBuV/m</b>
(miscenaneous)			@ 3m distance.

#### 6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 52.2 % RH Atmospheric Pressure: 1020 mbar

### 6.3.2 Test Mode Description

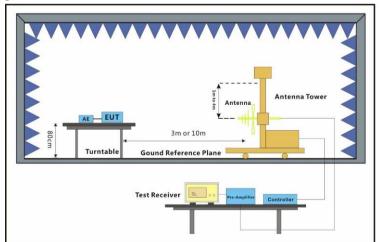
Pre-scan / Mode Final test Code Description

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.

### 6.3.3 Test Setup Diagram





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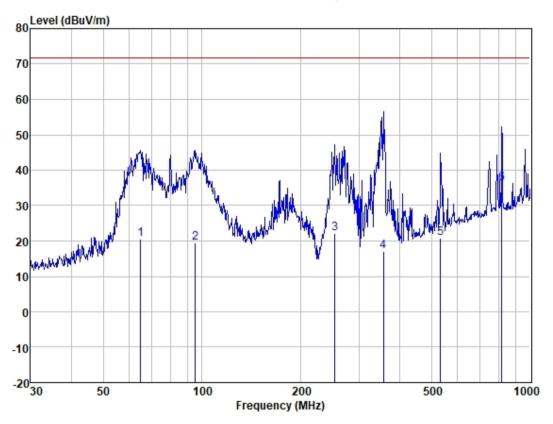
#### 6.3.4 Measurement Procedure and Data

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					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	64.887	34.33	12.59	1.35	27.60	20.67	71.67	-51.00	HORIZONTAL	Average
2	95.427	37.16	8.34	1.66	27.60	19.56	71.67	-52.11	HORIZONTAL	Average
3	253.837	34.47	11.93	2.98	27.23	22.15	71.67	-49.52	HORIZONTAL	Average
4	356.676	26.71	14.57	3.65	27.74	17.19	71.67	-54.48	HORIZONTAL	Average
5	531.964	26.37	18.36	4.61	28.66	20.68	71.67	-50.99	HORIZONTAL	Average
6	818.834	35.38	23.39	6.11	28.54	36.34	71.67	-35.33	HORIZONTAL	Average



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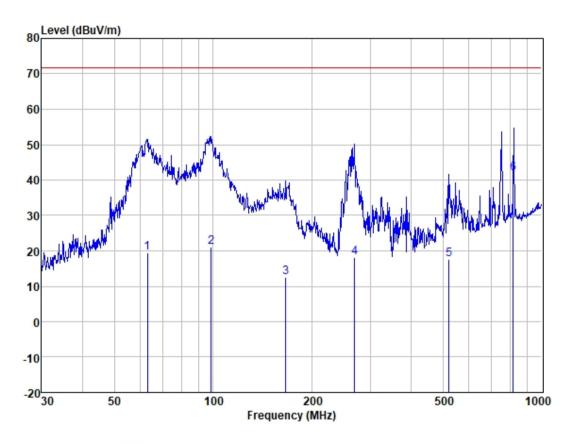


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Test Mode: 00; Polarity: Vertical



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

	Freq					Measured Level		Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	63.092	32.97	12.91	1.31	27.60	19.59	71.67	-52.08	VERTICAL	Average
2	98.487	38.20	8.80	1.68	27.60	21.08	71.67	-50.59	VERTICAL	Average
3	166.068	24.21	13.41	2.36	27.34	12.64	71.67	-59.03	VERTICAL	Average
4	269.428	29.69	12.58	3.09	27.22	18.14	71.67	-53.53	VERTICAL	Average
5	522.718	23.29	18.45	4.53	28.63	17.64	71.67	-54.03	VERTICAL	Average
6	819.700	41.00	23.41	6.11	28.54	41.98	71.67	-29.69	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

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	1174.0	Limit=20lg(25*SQRT( <b>1174.0</b> / 500))+20lg(300/3)= <b>71.67</b> <b>dBuV/m</b>
(miscenaneous)			@ 3m distance.

#### 6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 64.3 % RH Atmospheric Pressure: 1020 mbar

### 6.4.2 Test Mode Description

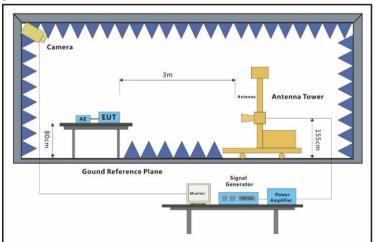
Pre-scan / Mode Final test Code Description

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

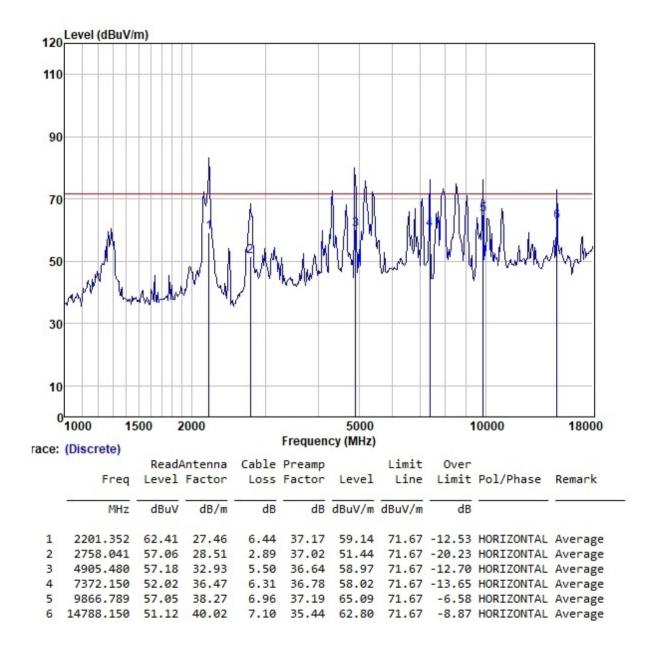
Frequency range: Above 1GHz

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: Horizontal





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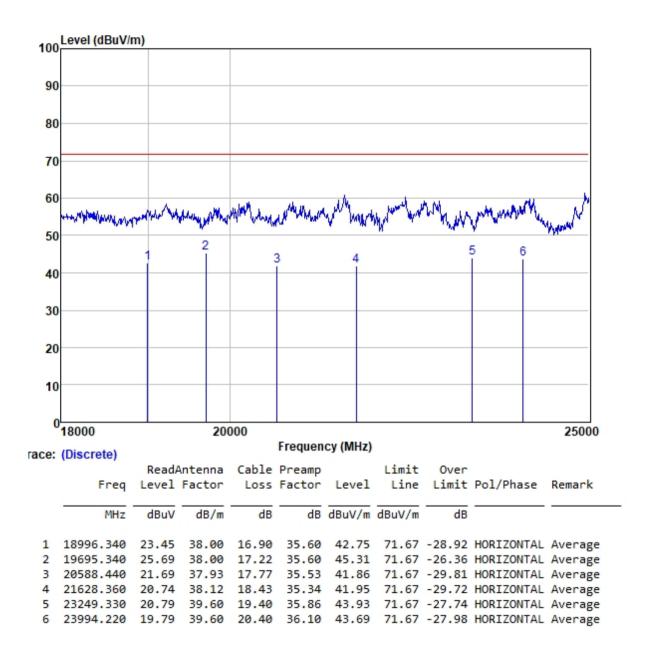
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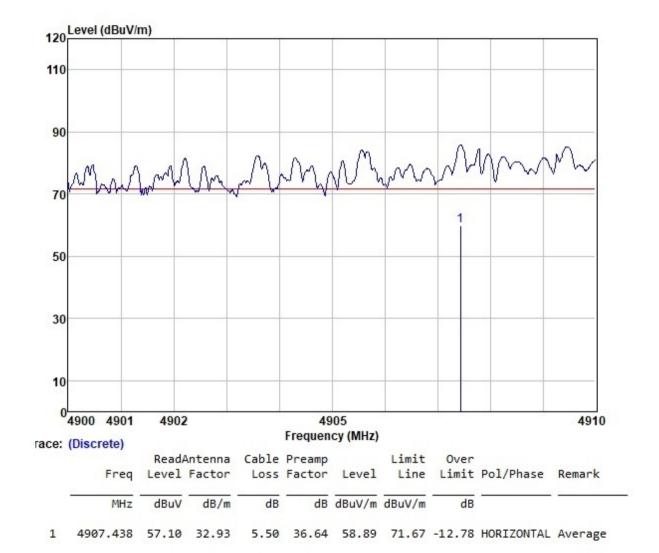
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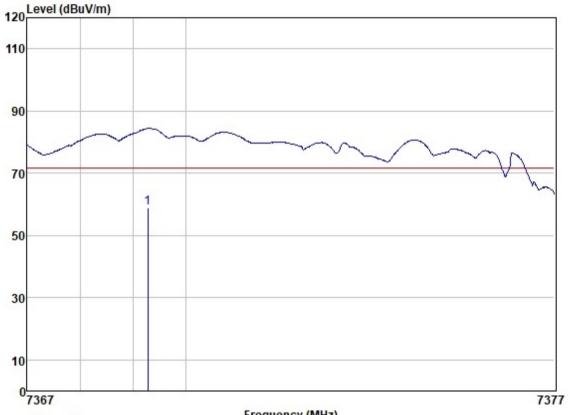
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race: (Discrete) Frequency (MHz)

	Freq		Antenna Factor					Over Limit	Pol/Phase	Remark	
TA.	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		<u> </u>	

1 7369.289 52.35 36.47 6.31 36.78 58.35 71.67 -12.32 HORIZONTAL Average



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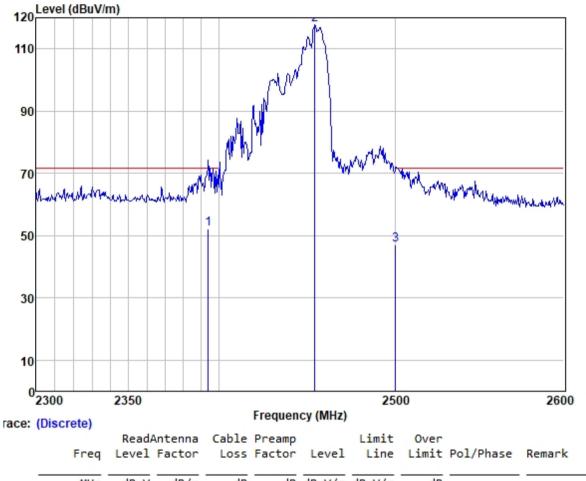
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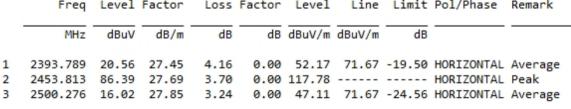


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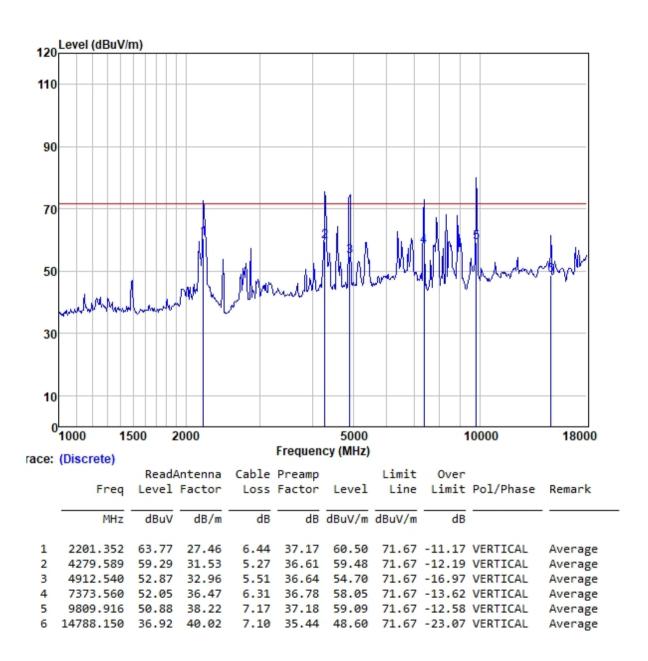


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Test Mode: 00; Polarity: Vertical





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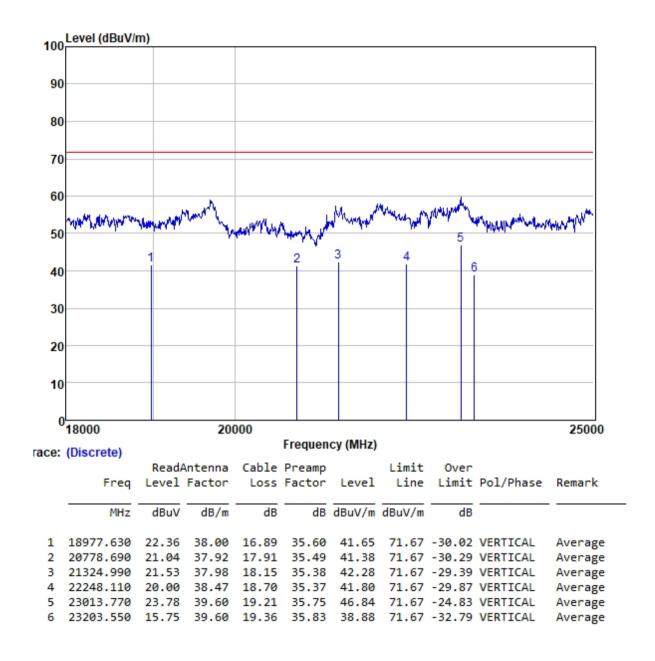
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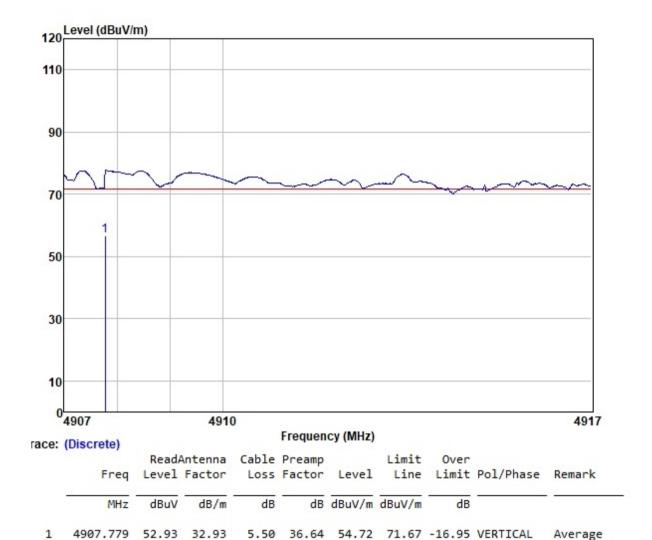
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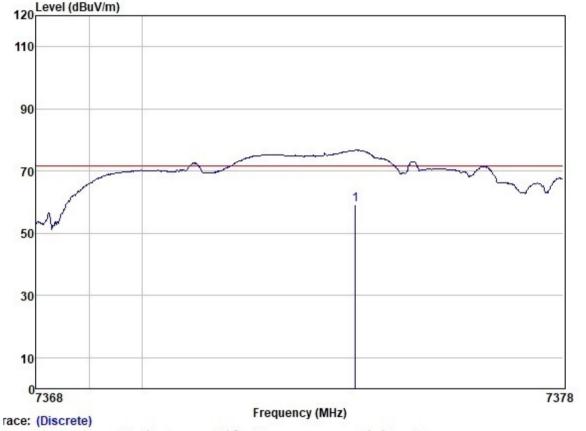
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Cable Preamp ReadAntenna Limit Over Limit Pol/Phase Freq Level Factor Loss Factor Level Line Remark dBuV dB/m dB dB dBuV/m dBuV/m 7374.048 52.70 36.47 6.31 36.78 58.70 71.67 -12.97 VERTICAL Average



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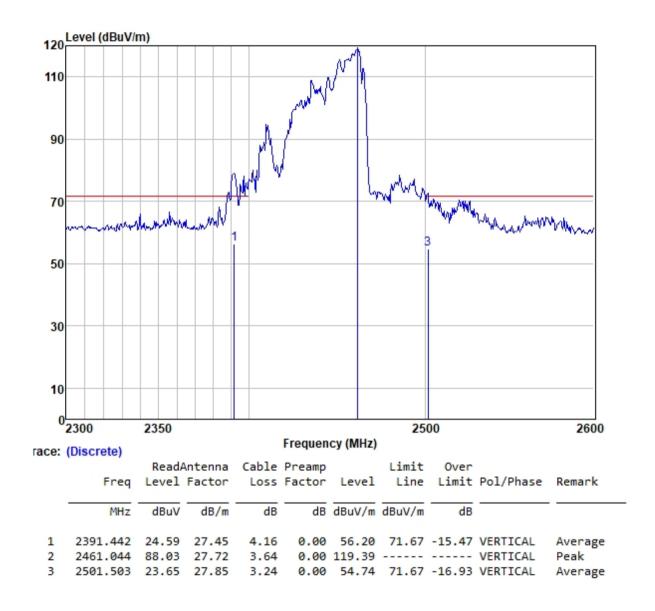
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### **6.5 Output Power Measurement**

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

Limit:

### **Power output Measurement:**

#### Formula:

$$P = \frac{4,187 \cdot m_{\rm w} (T_2 - T_1) + 0,55 \cdot m_{\rm c} (T_2 - T_0)}{t}$$

NOTE .

P is the microwave power output, in watts

 $m_{\mbox{\tiny W}}$  is the mass of the water, in grams

mc is the mass of the container, in grams

To is the ambient temperature, in degrees Celsius

T<sub>1</sub> 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: 22.6 °C Humidity: 52.5 % RH Atmospheric Pressure: 1020 mbar

#### 6.5.2 Test Mode Description

Pre-scan / Mode Final test Code Description

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** 

<u>.</u>		Ambiant	le:tiel	Final .		
Mass of water	Mass of the container	Ambient temperature	Initial temperature	Final temperature	Heating	Power output
(g)	(g)	(°C)	(°C)	(°C)	time(s)	(watts)
1203	413	19.7	10.2	20.2	43	1174.0

Input Power Data

Input Voltage (V)	Input Current (A)	Power Factor	Measured input power (W)	Rated input power (W)
120.02	14.73	0.932	1648	1700



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### 6.6 Operating Frequency Measurement

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

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*SQRT(power/500)

Power =1174.0 W according to clause 6.1.2

Limit=20lg(25\*SQRT(power/500))+20lg(300/3)=71.67dBuV/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



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### 6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 64.3 % RH Atmospheric Pressure: 1020 mbar

### 6.6.2 Test Mode Description

Pre-scan / Final test		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.



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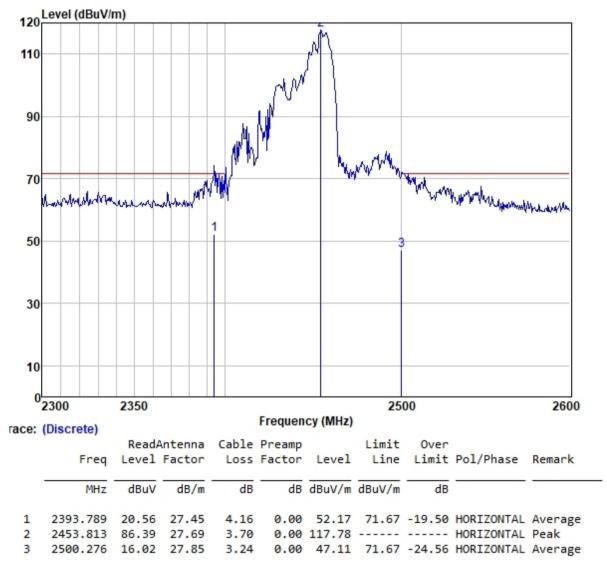
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#### 6.6.3 Measurement Procedure and Data

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



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	2453



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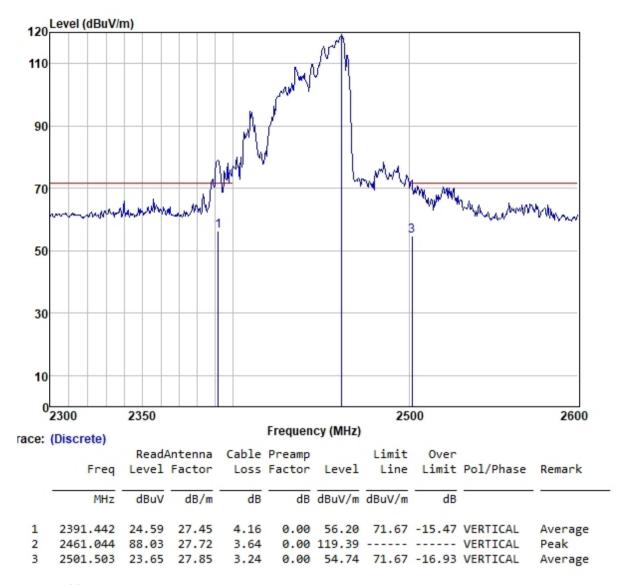


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Test Mode: 00; The variation of frequency with time



### 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	2461



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### 6.7 Radiation Hazard Test

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

### 6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 51.4 % RH Atmospheric Pressure: 1020 mbar

### 6.7.2 Test Mode Description

Pre-scan / Mode Final test 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.

#### 6.7.3 Measurement Procedure and Data

Maximum measure level (mW/cm²)	Limit (mW/cm²)	Test Result
0.360	1	Pass



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#### **Test Setup Photo** 7

Refer to Appendix - Test Setup Photo for GZEM230300129802



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#### **EUT Constructional Details (EUT Photos)** 8

Refer to External and Internal Photos for GZEM2303001298HS

- End of the Report -



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