TEST REPORT

Application No.:	GZEM2604002556HS
Applicant:	Guangdong Galanz Enterprises Co., Ltd.
Address of Applicant:	25 South Ronggui Avenue, Ronggui Street, Shunde District, Foshan, Guangdong, 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:	Guangdong Galanz Appliances Manufacturing Co., Ltd.
Address of Factory:	No. 3, East Xingpu Avenue, Maxin Industrial Zone, Huangpu Town, Zhongshan City, Guangdong Province, China
Product Name:	Microwave Oven
Model No.:	P100L34MNLHAV-BD, WMBD5024TS**, P100L34MNEHAV-BC, KMBD524TPS** * could be from 0 to 9 or from A to Z or blank ♣
Trade mark:	Galanz, Whirlpool, KitchenAid
Standard(s) :	47 CFR Part 18
Date of Receipt:	2026-04-13
Date of Test:	2026-04-17 to 2026-04-24
Date of Issue:	2026-05-26
Test Result:	**Pass***

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

Revision Record			
Version	**Report No.**	**Date**	**Remark**
01	GZEM260400255602	2026-05-26	Original

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

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/cm^2	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.:**

P100L34MNLHAV-BD, WMBD5024TS**, P100L34MNEHAV-BC, KMBD524TPS**

* 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, trade mark and model name.

Trade mark	Galanz	Whirlpool
Model name	P100L34MNLHAV-BD	WMBD5024TS**

Trade mark	Galanz	KitchenAid
Model name	P100L34MNEHAV-BC	KMBD524TPS**

Therefore, only model **P100L34MNLHAV-BD** was tested full items in this report.

3 Contents

4 General Information

4.1 Details of E.U.T.

Power supply: AC 120V 60Hz

Test voltage: AC 120V 60Hz

Microwave frequency: 2450MHz±50MHz

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)	4.38dB (30MHz-1GHz):10m
Radiated Emissions (above 1GHz)	4.72dB (1GHz-6GHz); 4.94dB (6GHz-18GHz)

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.

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

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	2026-03-28	2028-03-27
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

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
Digital power analyzer for harmonics & flicker testing	EMTEST	DPA 500N	EMC2235	2025-11-18	2026-11-17
Programmable multifunctional ac/dc power source	EMTEST	NETWAVE 7-400	EMC2234	2025-11-18	2026-11-17
NET.Control	EMTEST	Ver 3.2.3	GZE100-80	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	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

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

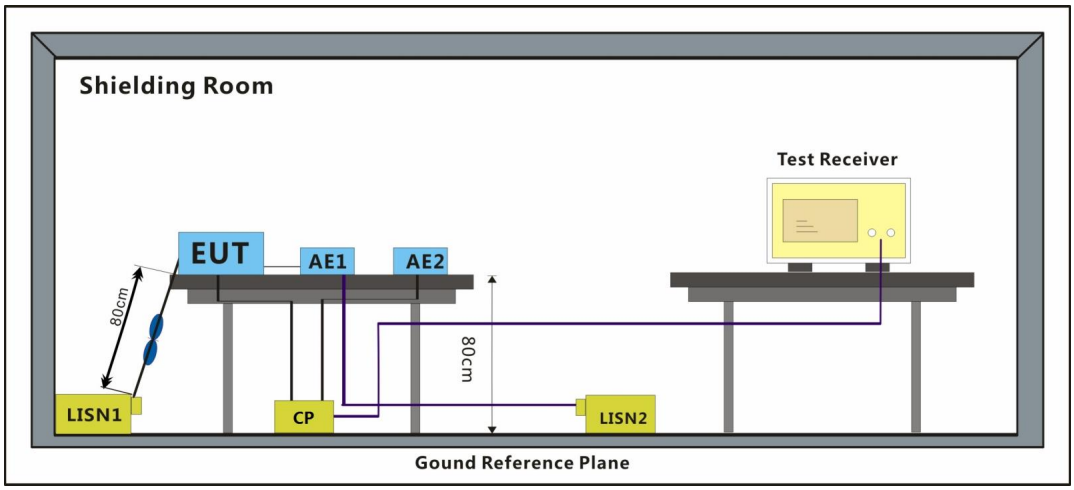
6.1.1 E.U.T. Operation

Operating Environment:
Temperature: 23.0 °C Humidity: 53.3 % RH Atmospheric Pressure: 1010 mbar

6.1.1 Test Mode Description

Pre-scan/ Final test	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.

6.1.2 Test Setup Diagram



6.1.3 Measurement Procedure and Data

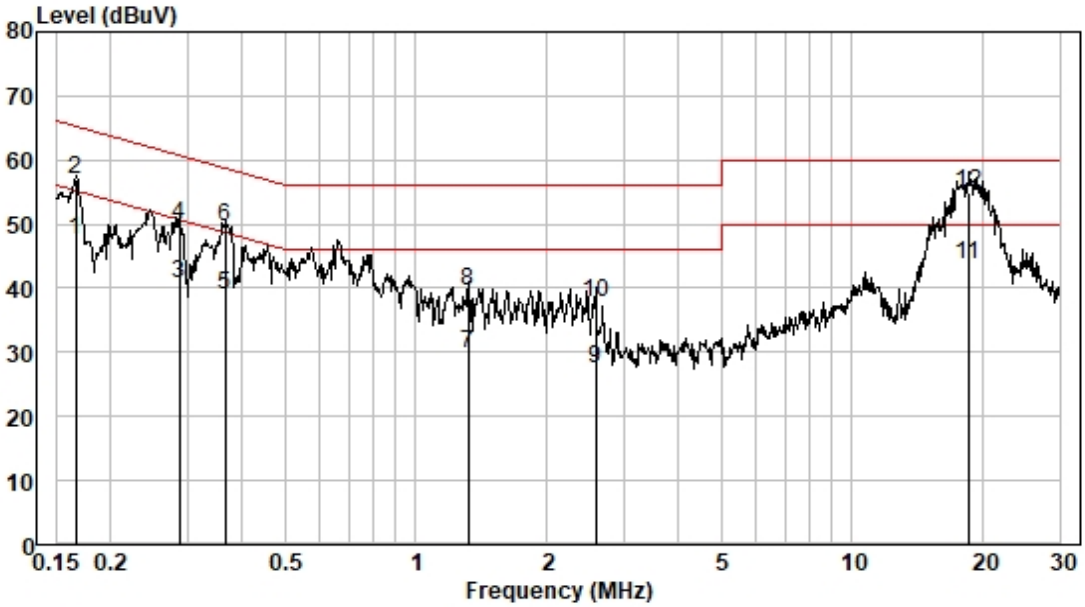
Frequency range: 150KHz-30MHz

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

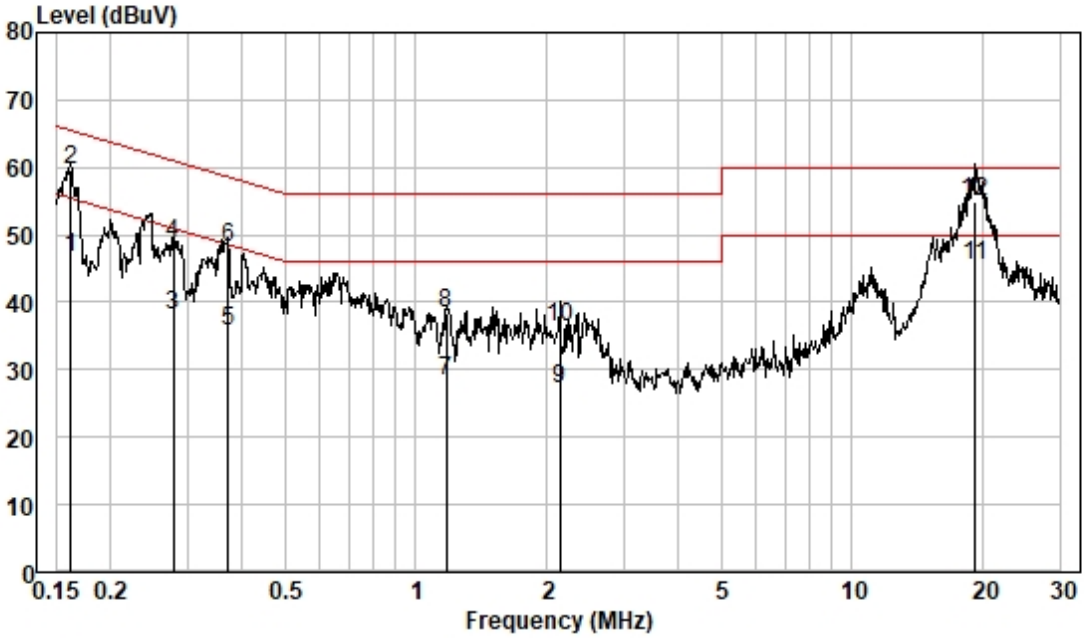
Test Mode: 00; Line: Live line



Pol :LINE
Mode :
Model :
Power :

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.166	37.87	0.04	9.52	47.43	55.16	-7.73	Average
2	0.166	47.37	0.04	9.52	56.93	65.16	-8.23	QP
3	0.286	31.06	0.04	9.55	40.65	50.63	-9.98	Average
4	0.286	40.31	0.04	9.55	49.90	60.63	-10.73	QP
5	0.365	29.26	0.05	9.56	38.87	48.61	-9.74	Average
6	0.365	39.97	0.05	9.56	49.58	58.61	-9.03	QP
7	1.317	20.24	0.09	9.59	29.92	46.00	-16.08	Average
8	1.317	29.82	0.09	9.59	39.50	56.00	-16.50	QP
9	2.581	17.80	0.14	9.59	27.53	46.00	-18.47	Average
10	2.581	28.09	0.14	9.59	37.82	56.00	-18.18	QP
11	18.426	33.34	0.37	9.84	43.55	50.00	-6.45	Average
12	18.426	44.84	0.37	9.84	55.05	60.00	-4.95	QP

Test Mode: 00; Line: Neutral Line



Pol :NEUTRAL
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	0.162	37.08	0.04	9.52	46.64	55.38	-8.74	Average
2	0.162	50.15	0.04	9.52	59.71	65.38	-5.67	QP
3	0.277	28.65	0.04	9.52	38.21	50.90	-12.69	Average
4	0.277	39.15	0.04	9.52	48.71	60.90	-12.19	QP
5	0.371	26.02	0.05	9.56	35.63	48.47	-12.84	Average
6	0.371	38.58	0.05	9.56	48.19	58.47	-10.28	QP
7	1.172	18.78	0.08	9.57	28.43	46.00	-17.57	Average
8	1.172	28.85	0.08	9.57	38.50	56.00	-17.50	QP
9	2.133	17.33	0.13	9.56	27.02	46.00	-18.98	Average
10	2.133	26.72	0.13	9.56	36.41	56.00	-19.59	QP
11	19.122	35.09	0.37	9.88	45.34	50.00	-4.66	Average
12	19.122	44.72	0.37	9.88	54.97	60.00	-5.03	QP

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	**920.8**	Limit=20lg(25*SQRT(**920.8**/500))+20lg(300/10)=**60.15 dBuV/m** @ 10m distance.

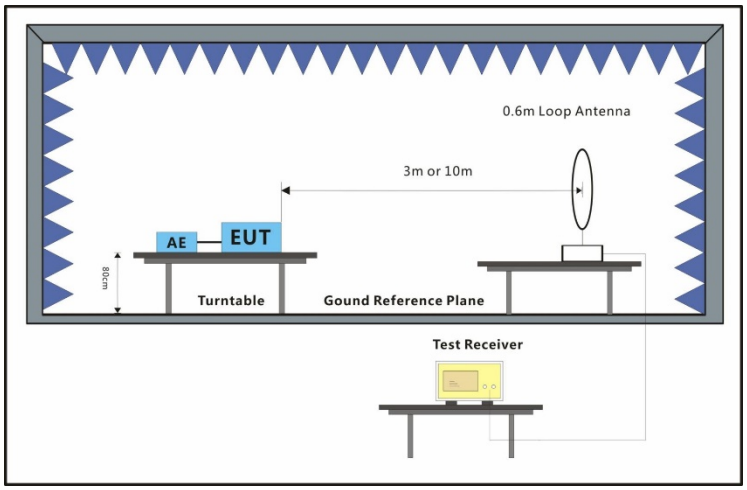
6.2.1 E.U.T. Operation

Operating Environment:
Temperature: 23.3 °C Humidity: 55.3 % RH Atmospheric Pressure: 1010 mbar

6.2.2 Test Mode Description

Pre-scan/ Final test	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.

6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

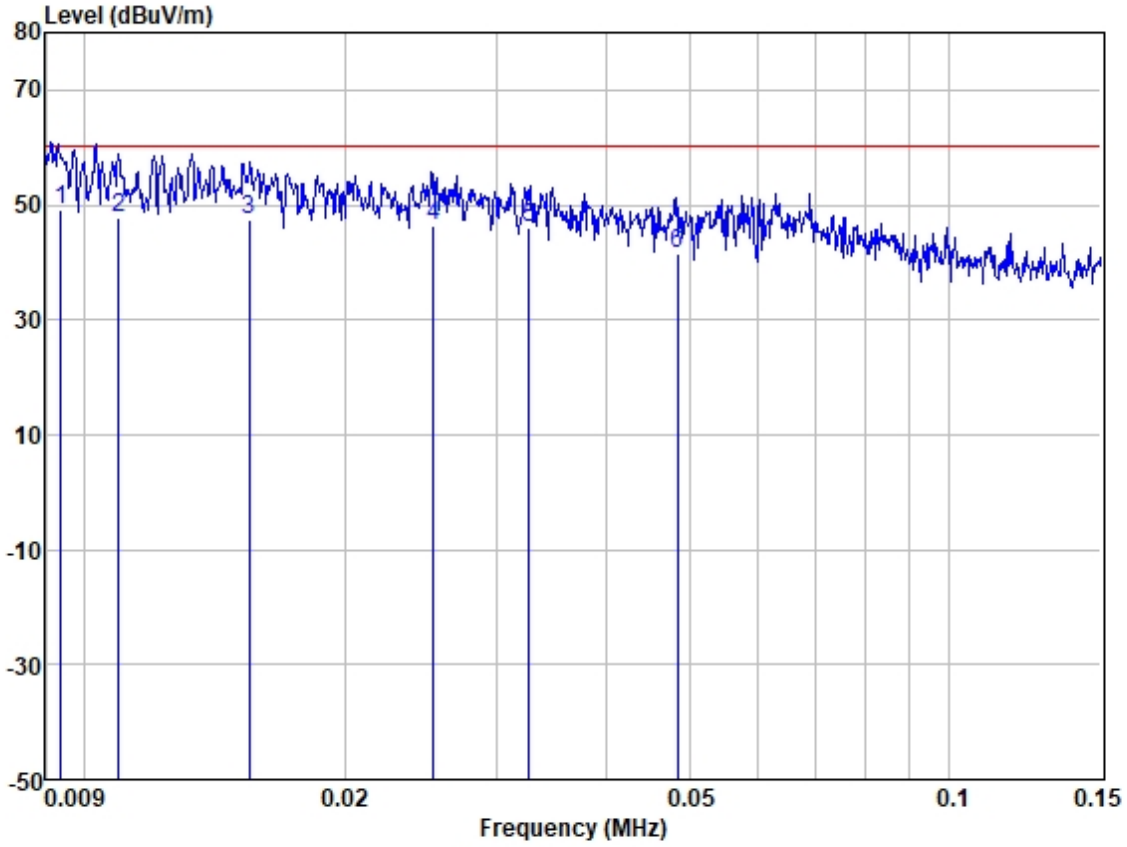
Frequency range: 9KHz-30MHz

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

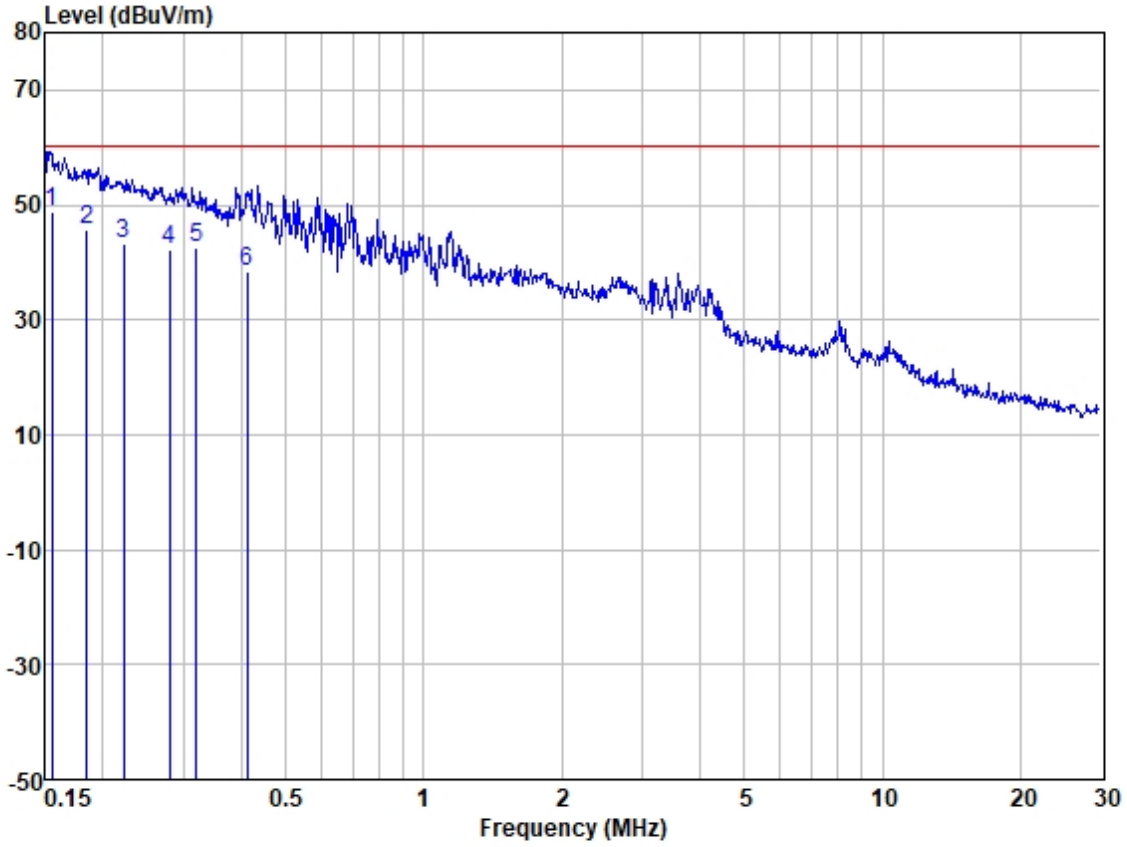
Test Mode: 00; Polarity: Horizontal



Site : SGS
:
Model :
Power :
Test Mode :

	Freq	Read Level	Anterna 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	0.009	58.60	18.84	0.01	28.41	49.04	60.15	-11.11	HORIZONTAL	Average
2	0.011	58.05	18.26	0.01	28.43	47.89	60.15	-12.26	HORIZONTAL	Average
3	0.015	60.78	15.21	0.01	28.50	47.50	60.15	-12.65	HORIZONTAL	Average
4	0.025	61.76	13.41	0.02	28.70	46.49	60.15	-13.66	HORIZONTAL	Average
5	0.033	62.36	12.82	0.02	29.03	46.17	60.15	-13.98	HORIZONTAL	Average
6	0.049	58.44	12.22	0.03	29.25	41.44	60.15	-18.71	HORIZONTAL	Average

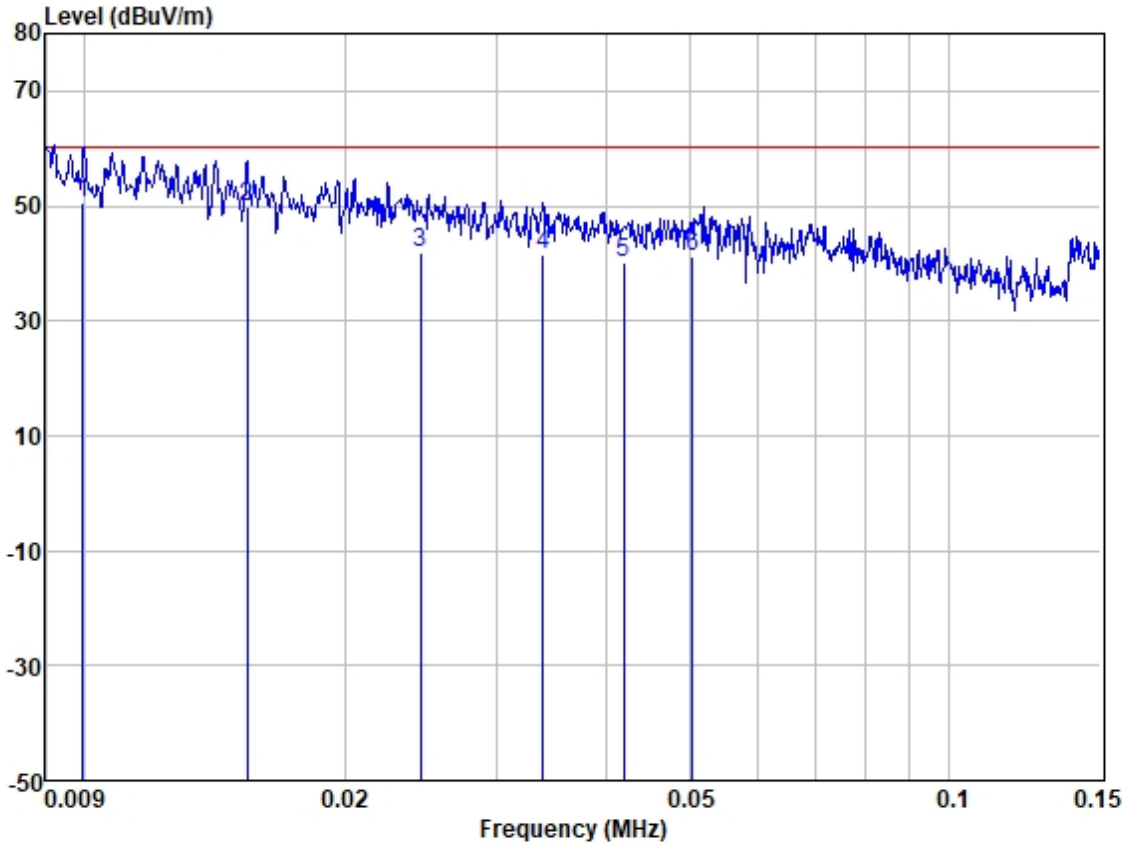
Test Mode: 00; Polarity: Horizontal



Site : SGS
:
Model :
Power :
Test Mode :

	Freq	Read Level	Anterna 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	0.155	66.45	11.88	0.03	29.40	48.96	60.15	-11.19	HORIZONTAL	Average
2	0.184	63.09	11.86	0.04	29.40	45.59	60.15	-14.56	HORIZONTAL	Average
3	0.222	60.77	11.85	0.04	29.40	43.26	60.15	-16.89	HORIZONTAL	Average
4	0.279	59.52	11.87	0.05	29.40	42.04	60.15	-18.11	HORIZONTAL	Average
5	0.320	59.89	11.87	0.06	29.40	42.42	60.15	-17.73	HORIZONTAL	Average
6	0.413	55.90	11.85	0.07	29.40	38.42	60.15	-21.73	HORIZONTAL	Average

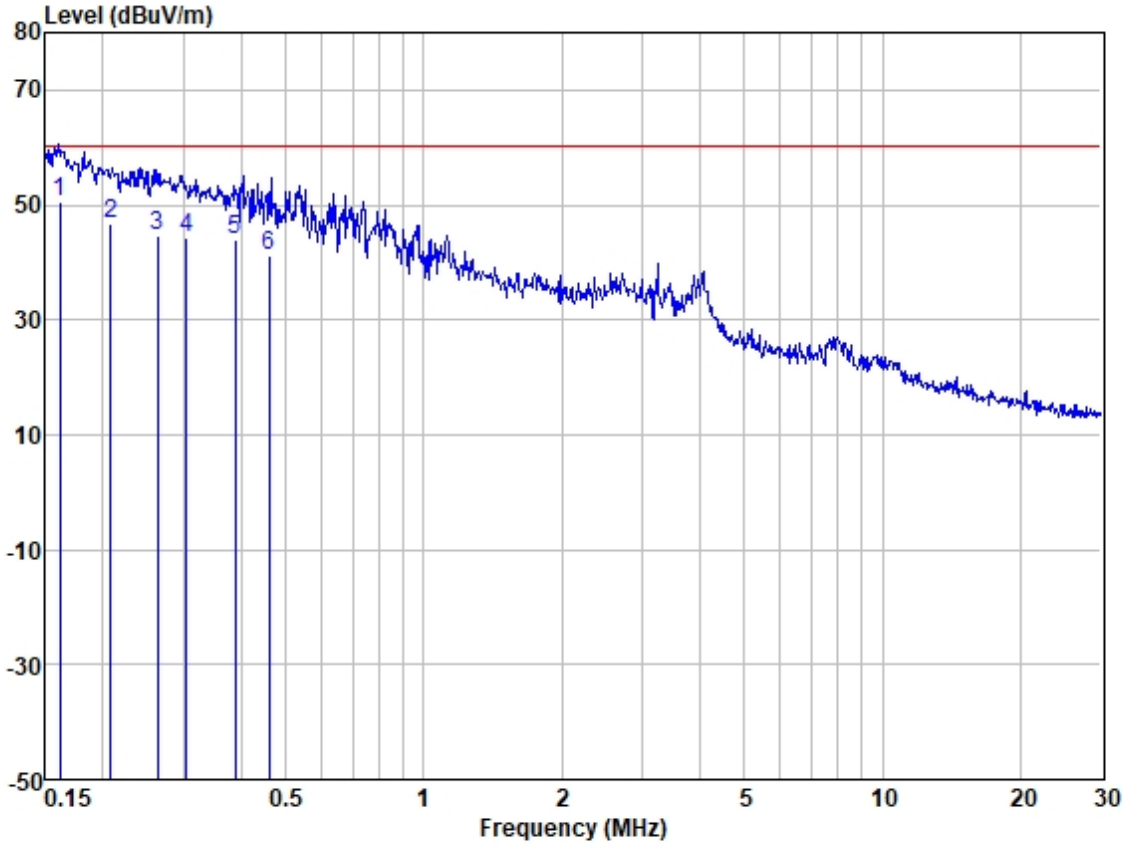
Test Mode: 00; Polarity: Vertical



Site : SGS
:
Model :
Power :
Test Mode :

	Freq	Read Level	Anterna 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	60.28	18.66	0.01	28.41	50.54	60.15	-9.61	VERTICAL	Average
2	0.015	62.91	15.26	0.01	28.50	49.68	60.15	-10.47	VERTICAL	Average
3	0.024	56.98	13.58	0.02	28.67	41.91	60.15	-18.24	VERTICAL	Average
4	0.034	57.98	12.76	0.02	29.07	41.69	60.15	-18.46	VERTICAL	Average
5	0.042	57.02	12.39	0.03	29.20	40.24	60.15	-19.91	VERTICAL	Average
6	0.050	58.08	12.19	0.03	29.26	41.04	60.15	-19.11	VERTICAL	Average

Test Mode: 00; Polarity: Vertical



Site : SGS
:
Model :
Power :
Test Mode :

	Freq	Read Level	Anterna 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	0.162	68.10	11.87	0.04	29.40	50.61	60.15	-9.54	VERTICAL	Average
2	0.208	64.22	11.85	0.04	29.40	46.71	60.15	-13.44	VERTICAL	Average
3	0.263	62.11	11.87	0.04	29.40	44.62	60.15	-15.53	VERTICAL	Average
4	0.303	61.72	11.87	0.05	29.40	44.24	60.15	-15.91	VERTICAL	Average
5	0.389	61.52	11.86	0.07	29.40	44.05	60.15	-16.10	VERTICAL	Average
6	0.461	58.74	11.82	0.07	29.40	41.23	60.15	-18.92	VERTICAL	Average

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	**920.8**	Limit=20lg(25*SQRT(**920.8**/500))+20lg(300/10)=**60.15 dBuV/m** @ 10m distance.

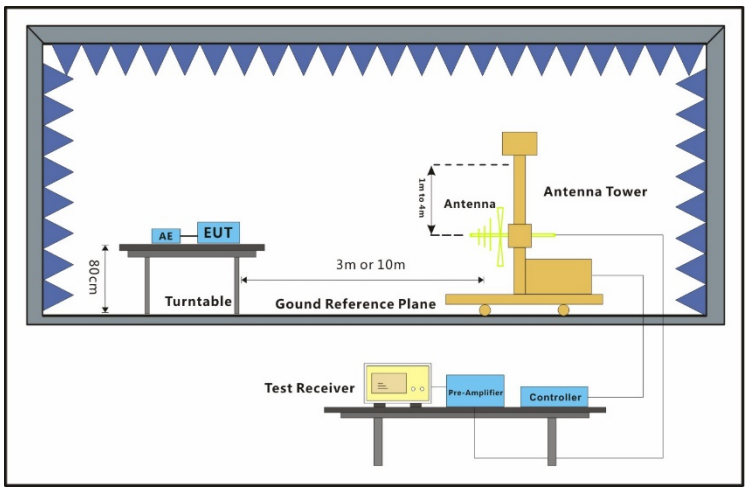
6.3.1 E.U.T. Operation

Operating Environment:
Temperature: 23.3 °C Humidity: 55.8 % RH Atmospheric Pressure: 1010 mbar

6.3.2 Test Mode Description

Pre-scan/ Final test	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.

6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and Data

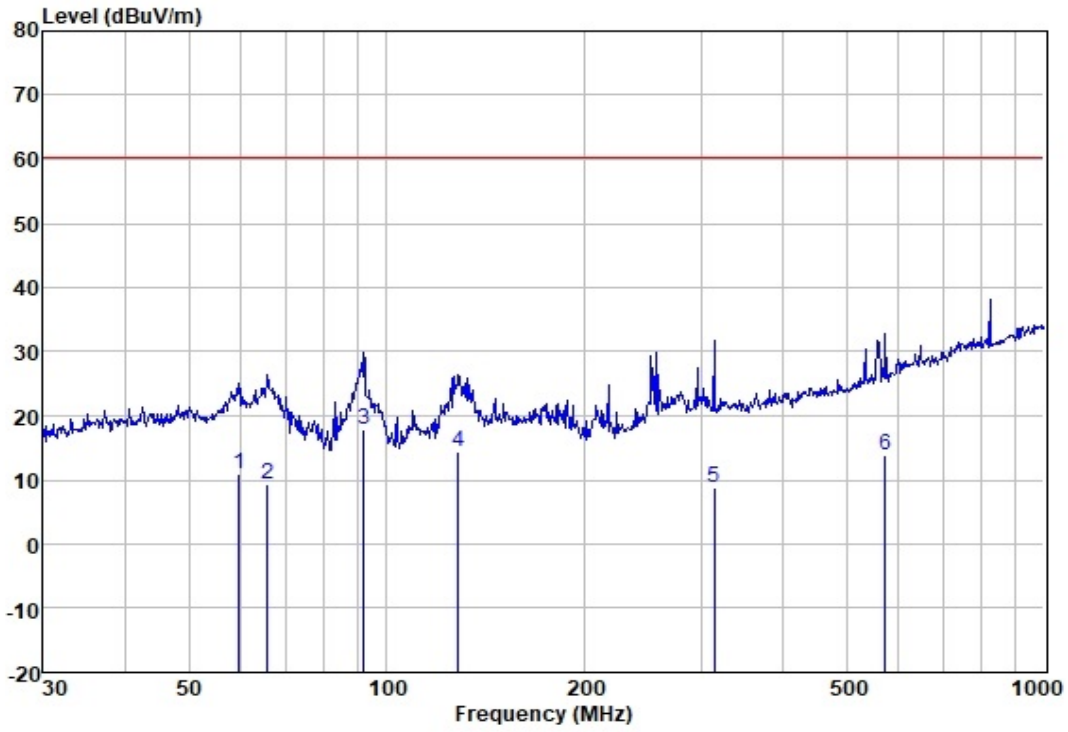
Frequency range: 30MHz-1GHz

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

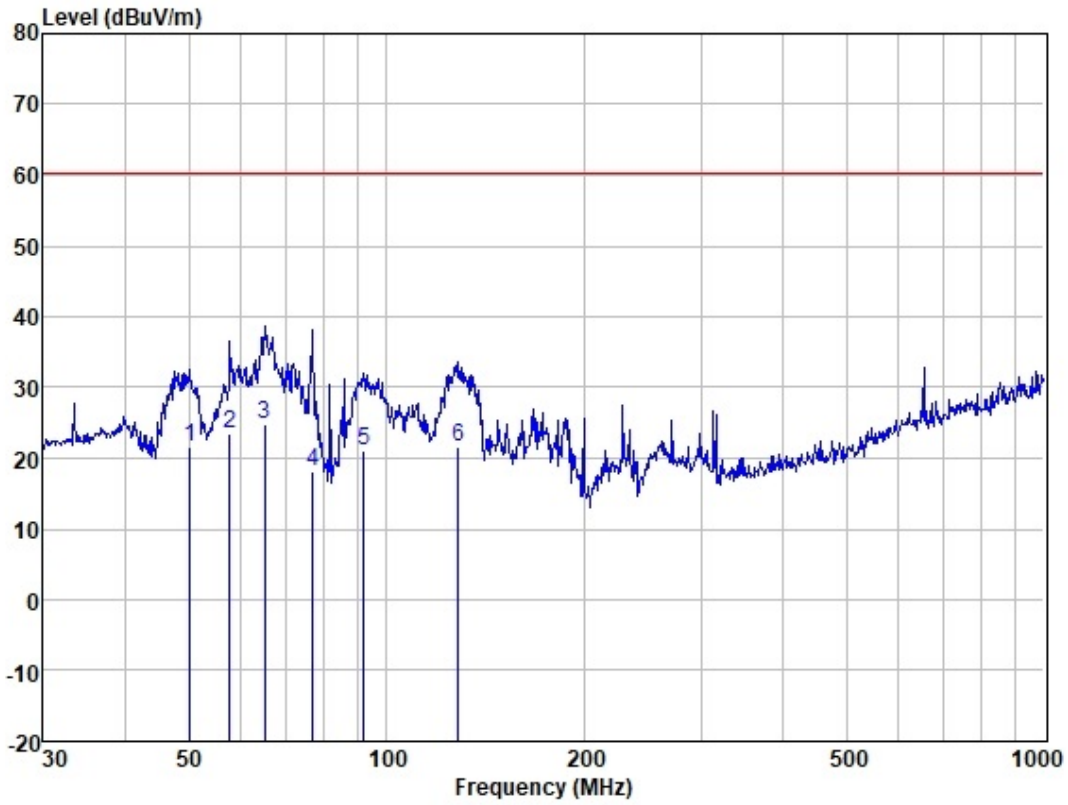
Test Mode: 00; Polarity: Horizontal



Site : SGS
:
Model :
Power :
Test Mode :

	Freq	Read Level	Anterna 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	59.649	24.92	13.24	0.78	27.93	11.01	60.15	-49.14	HORIZONTAL	Average
2	65.803	24.17	12.25	0.79	27.89	9.32	60.15	-50.83	HORIZONTAL	Average
3	92.139	36.87	8.11	0.83	27.81	18.00	60.15	-42.15	HORIZONTAL	Average
4	128.563	28.92	12.20	0.92	27.76	14.28	60.15	-45.87	HORIZONTAL	Average
5	314.377	20.42	13.95	1.71	27.24	8.84	60.15	-51.31	HORIZONTAL	Average
6	572.614	21.22	19.10	2.00	28.48	13.84	60.15	-46.31	HORIZONTAL	Average

Test Mode: 00; Polarity: Vertical



Site : SGS
:
Model :
Power :
Test Mode :

	Freq	Read Level	Anterna 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	50.232	34.92	13.93	0.75	27.96	21.64	60.15	-38.51	VERTICAL	Average
2	57.594	37.18	13.48	0.77	27.94	23.49	60.15	-36.66	VERTICAL	Average
3	65.114	39.34	12.45	0.79	27.90	24.68	60.15	-35.47	VERTICAL	Average
4	77.051	35.28	9.92	0.81	27.85	18.16	60.15	-41.99	VERTICAL	Average
5	92.139	39.82	8.11	0.83	27.81	20.95	60.15	-39.20	VERTICAL	Average
6	128.563	36.28	12.20	0.92	27.76	21.64	60.15	-38.51	VERTICAL	Average

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	**920.8**	Limit=20lg(25*SQRT(**920.8**/500))+20lg(300/3)=**70.61 dBuV/m** @ 3m distance.

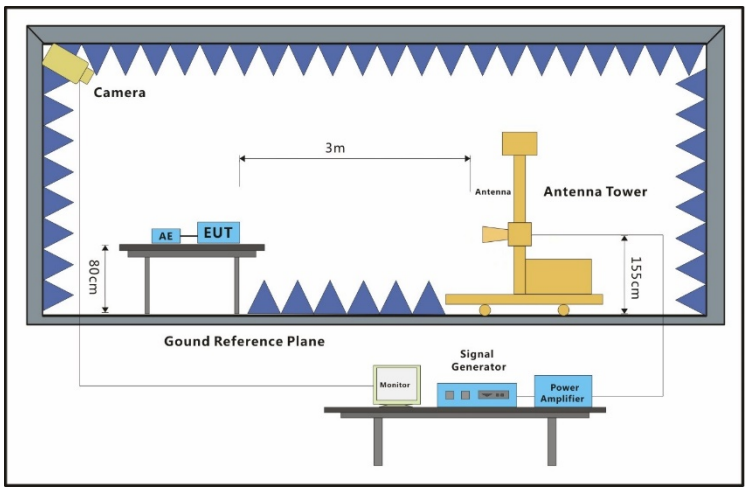
6.4.1 E.U.T. Operation

Operating Environment:
Temperature: 25.6 °C Humidity: 56.0 % RH Atmospheric Pressure: 1010 mbar

6.4.2 Test Mode Description

Pre-scan/ Final test	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



6.4.4 Measurement Procedure and Data

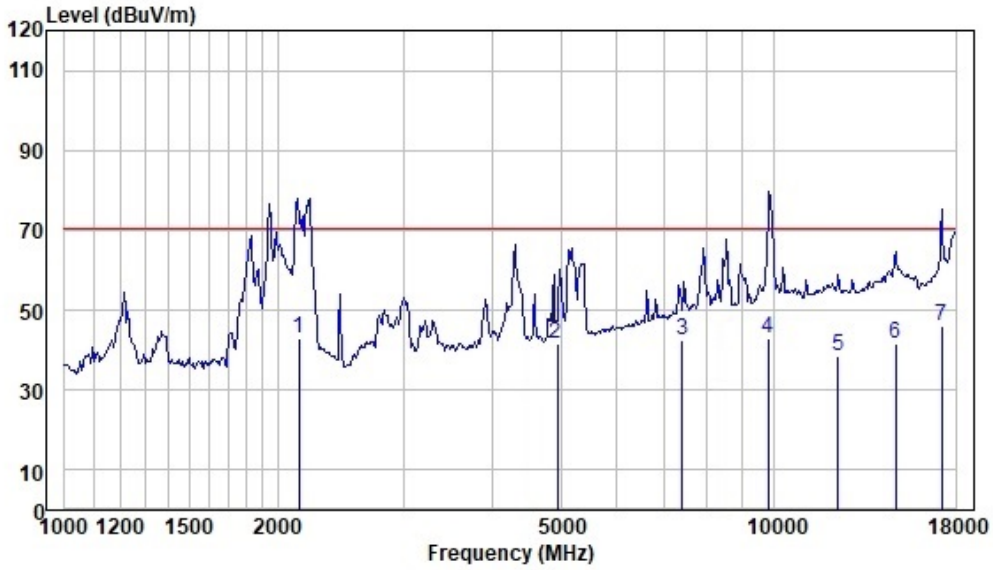
Frequency range: Above 1GHz

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.

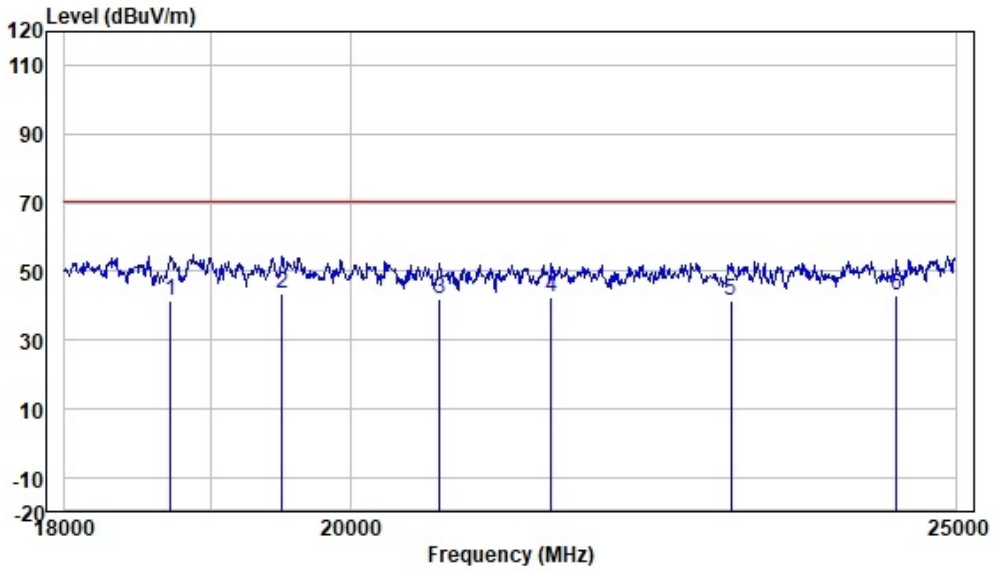
Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Test Mode: 00; Polarity: Vertical



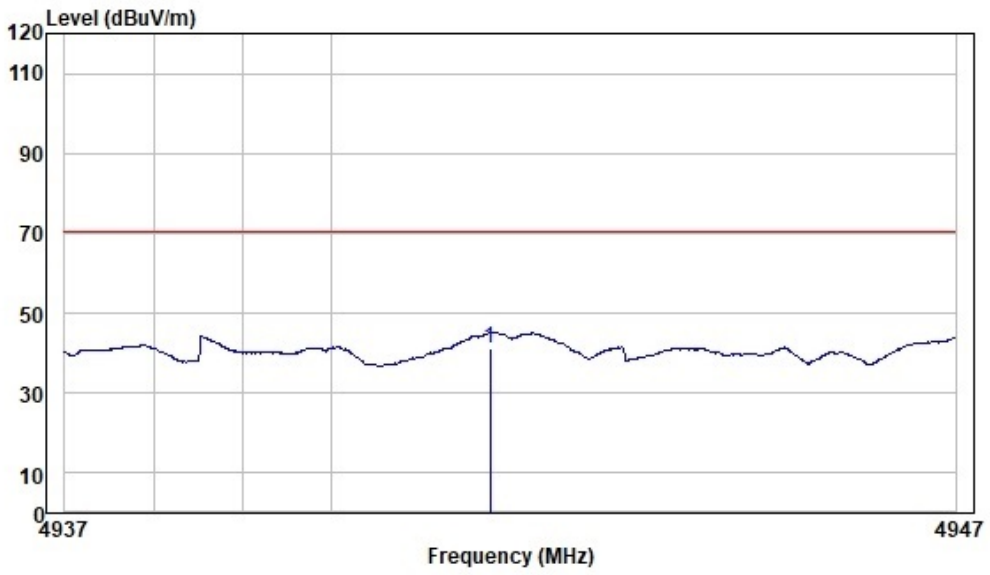
	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2142.28	50.67	26.90	3.20	37.79	42.98	70.61	-27.63	VERTICAL	Average
2	4904.40	43.91	30.62	4.58	37.47	41.64	70.61	-28.97	VERTICAL	Average
3	7463.82	36.54	36.89	6.48	37.18	42.73	70.61	-27.88	VERTICAL	Average
4	9798.08	33.79	38.95	7.14	37.10	42.78	70.61	-27.83	VERTICAL	Average
5	12290.70	28.35	39.39	7.86	36.88	38.72	70.61	-31.89	VERTICAL	Average
6	14788.15	27.13	42.17	8.79	36.51	41.58	70.61	-29.02	VERTICAL	Average
7	17186.53	30.44	42.61	9.48	36.41	46.12	70.62	-24.49	VERTICAL	Average

Test Mode: 00; Polarity: Vertical



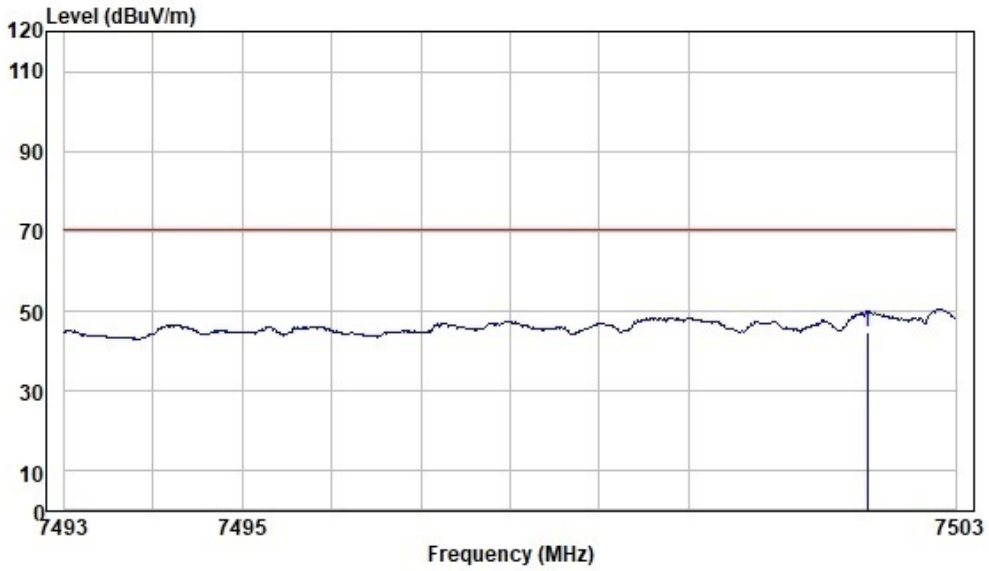
	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	18717.59	40.35	36.98	3.17	39.27	41.23	70.61	-29.38	VERTICAL	Average
2	19502.19	43.22	36.91	3.10	39.89	43.34	70.61	-27.27	VERTICAL	Average
3	20669.76	40.76	37.43	3.16	39.14	42.21	70.61	-28.40	VERTICAL	Average
4	21536.20	40.87	37.59	3.28	39.44	42.30	70.61	-28.31	VERTICAL	Average
5	23013.77	37.68	38.50	3.33	38.18	41.33	70.61	-29.28	VERTICAL	Average
6	24455.77	39.93	38.70	3.42	38.79	43.26	70.61	-27.35	VERTICAL	Average

Test Mode: 00; Polarity: Vertical



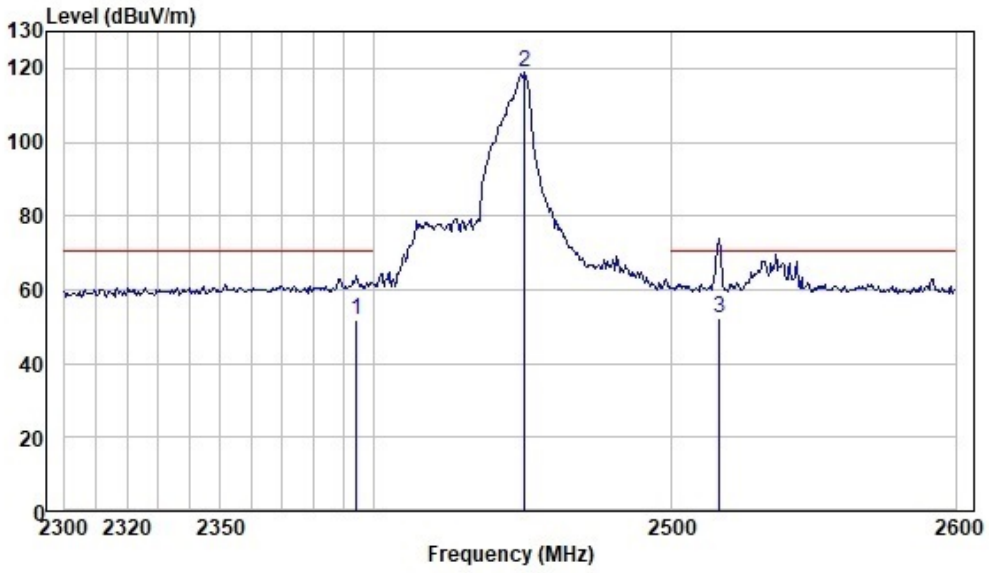
	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	4941.77	48.82	26.90	3.20	37.79	41.13	70.61	-29.48	VERTICAL	Average

Test Mode: 00; Polarity: Vertical



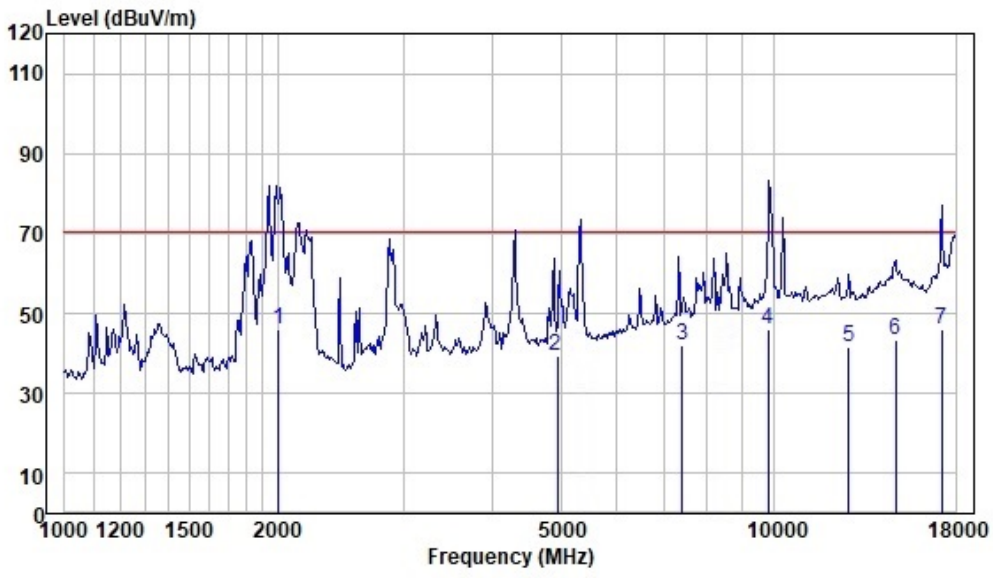
	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	7502.00	35.87	38.95	7.14	37.10	44.86	70.61	-25.75	VERTICAL	Average

Test Mode: 00; Polarity: Vertical



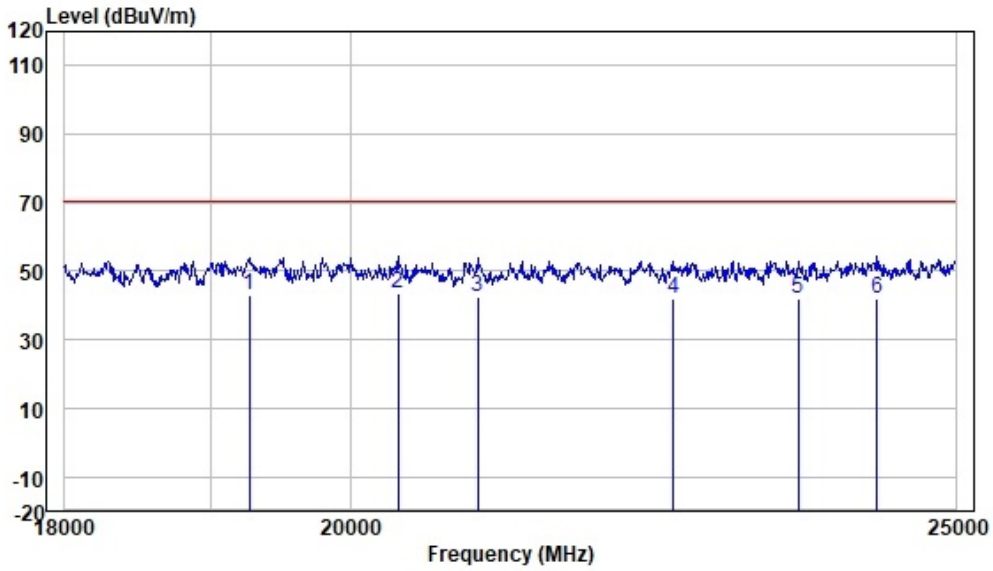
	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2394.38	20.49	27.64	3.45	0.00	51.58	70.61	-19.03	VERTICAL	Average
2	2450.21	87.70	27.72	3.47	0.00	118.89	----	----	VERTICAL	peak
3	2516.89	20.81	27.79	3.50	0.00	52.10	70.61	-18.51	VERTICAL	Average

Test Mode: 00; Polarity: Horizontal



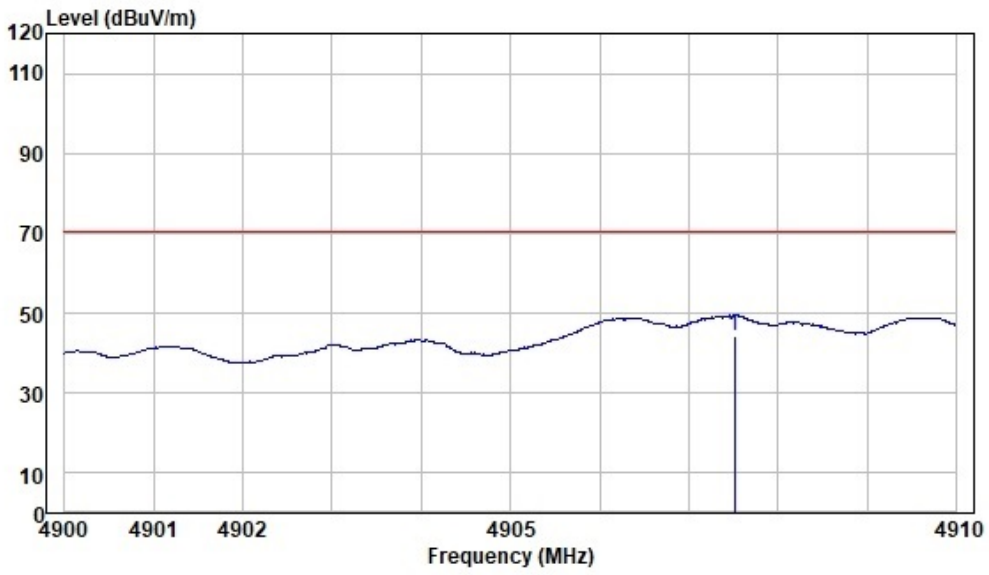
	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2005.68	53.92	26.66	3.12	37.80	45.90	70.61	-24.71	HORIZONTAL	Average
2	4930.93	39.64	32.01	5.09	37.19	39.55	70.61	-31.06	HORIZONTAL	Average
3	7463.82	36.08	36.89	6.48	37.18	42.27	70.61	-28.34	HORIZONTAL	Average
4	9798.48	37.13	38.95	7.14	37.10	46.12	70.61	-24.49	HORIZONTAL	Average
5	12724.47	31.21	39.44	8.03	36.85	41.83	70.61	-28.78	HORIZONTAL	Average
6	14788.15	29.01	42.17	8.79	36.51	43.46	70.61	-27.15	HORIZONTAL	Average
7	17186.53	30.46	42.61	9.48	36.41	46.14	70.62	-24.47	HORIZONTAL	Average

Test Mode: 00; Polarity: Horizontal



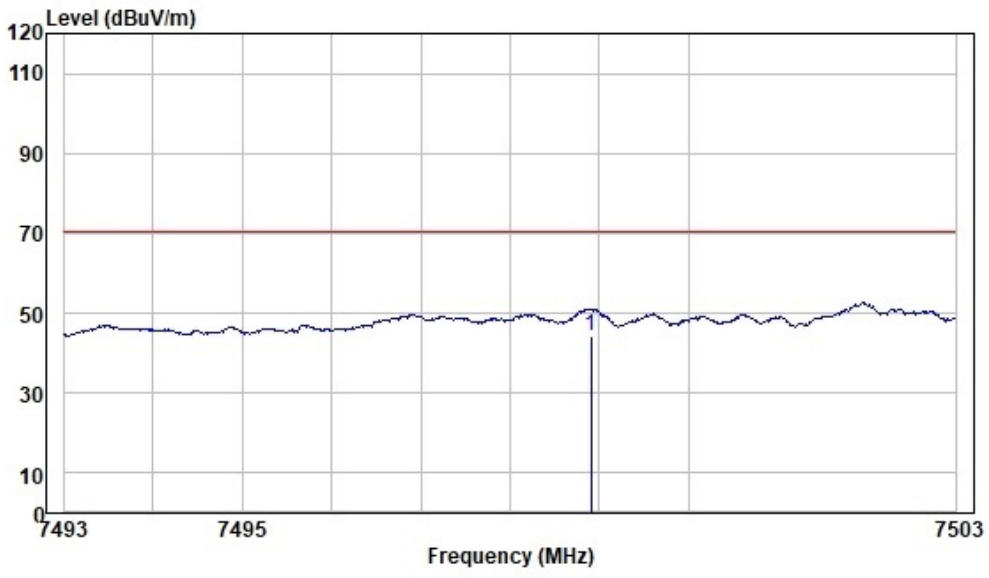
	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	19272.91	42.44	36.98	3.16	39.54	43.04	70.61	-27.57	HORIZONTAL	Average
2	20353.08	43.20	37.25	3.07	39.97	43.55	70.61	-27.06	HORIZONTAL	Average
3	20963.81	40.48	37.68	3.22	38.76	42.62	70.61	-27.99	HORIZONTAL	Average
4	22527.57	39.25	38.13	3.34	38.93	41.79	70.61	-28.82	HORIZONTAL	Average
5	23587.82	37.86	38.62	3.41	37.92	41.97	70.61	-28.64	HORIZONTAL	Average
6	24279.66	38.33	38.70	3.44	38.28	42.19	70.61	-28.42	HORIZONTAL	Average

Test Mode: 00; Polarity: Horizontal



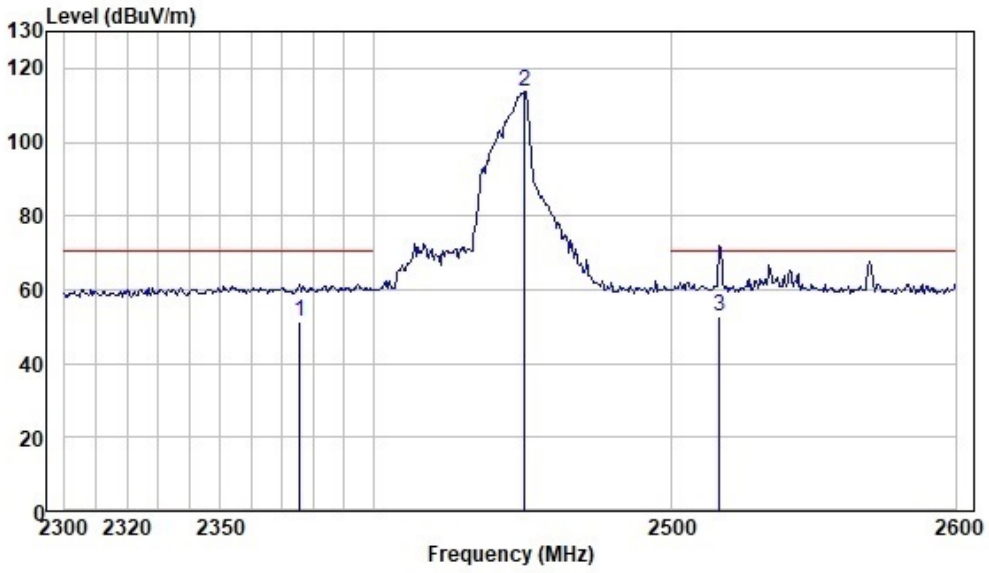
	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	4907.52	52.51	26.66	3.12	37.80	44.49	70.61	-26.12	HORIZONTAL	Average

Test Mode: 00; Polarity: Horizontal



	Freq	Read Level	Anterna 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	7498.91	35.08	38.95	7.14	37.10	44.07	70.61	-26.54	HORIZONTAL	Average

Test Mode: 00; Polarity: Horizontal



	Freq	Read Level	Anterna 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	2375.66	20.37	27.61	3.44	0.00	51.42	70.61	-19.19	HORIZONTAL	Average
2	2450.21	82.45	27.72	3.47	0.00	113.64	----	----	HORIZONTAL	peak
3	2516.89	21.53	27.79	3.50	0.00	52.82	70.61	-17.19	HORIZONTAL	Average

6.5 Output Power Measurement

Test Requirement: 47 CFR Part 18

Test Method: FCC OST/MP-5:1986

Test Engineer: Lily Kuang

Limit:

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

T_0 is the ambient temperature, in degrees Celsius

T_1 is the initial temperature of the water, in degrees Celsius

T_2 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: 25.6 °C Humidity: 56.0 % RH Atmospheric Pressure: 1010 mbar

6.5.2 Test Mode Description

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

6.5.3 Measurement Procedure and Data

Output Power Data

Mass of water (g)	Mass of the container (g)	Ambient temperature (℃)	Initial temperature (℃)	Final temperature (℃)	Heating time (s)	Power output (W)
1000	410	19.9	10.1	20.2	46	920.8

Input Power Data

Input Voltage (V)	Input Current (A)	Power Factor	Measured input power (W)	Rated input power (W)
119.97	11.26	0.934	1262	1300

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*SQRT(power/500)

Power =891.1 W according to clause 6.1.2

Limit**=20lg(25*SQRT(power/500))+20lg(300/3)=70.47dBuV/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:

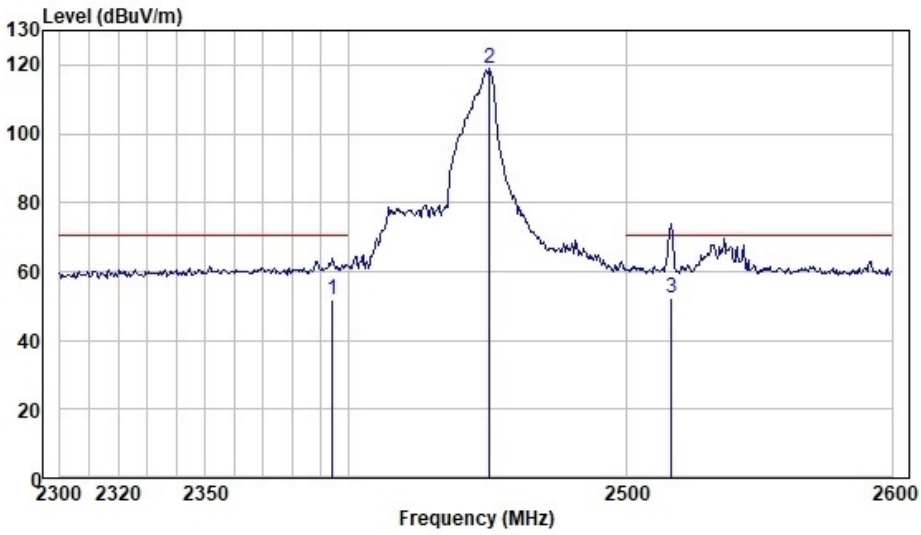
Temperature: 25.6 °C Humidity: 56.0 % RH Atmospheric Pressure: 1010 mbar

6.6.2 Test Mode Description

Pre-scan/ Final test	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.

6.6.3 Measurement Procedure and Data

Test Mode: 00; The variation of frequency with time



	Freq	Read Level	Anterna 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	2394.38	20.49	27.64	3.45	0.00	51.58	70.62	-19.04	VERTICAL	Average
2	2450.21	87.70	27.72	3.47	0.00	118.89	----	----	VERTICAL	peak
3	2516.89	20.81	27.79	3.50	0.00	52.10	70.62	-18.52	VERTICAL	Average

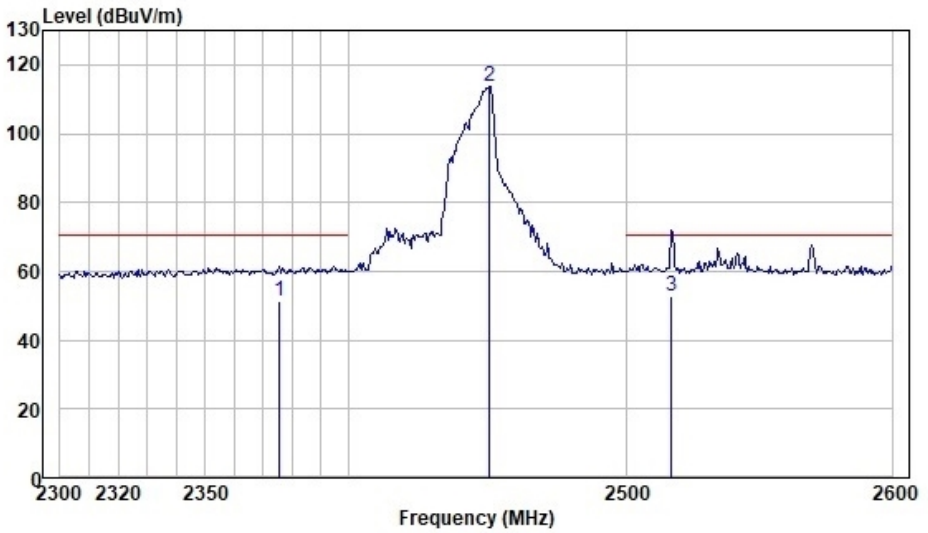
The variation of frequency with time

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	2450.21

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



	Freq	Read Level	Anterna 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	2375.66	20.37	27.61	3.44	0.00	51.42	70.62	-19.20	HORIZONTAL	Average
2	2450.21	82.45	27.72	3.47	0.00	113.64	----	----	HORIZONTAL	peak
3	2516.89	21.53	27.79	3.50	0.00	52.82	70.62	-17.80	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	2450.21

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: 23.3 °C Humidity: 55.5 % RH Atmospheric Pressure: 1010 mbar

6.7.2 Test Mode Description

Pre-scan/ Final test	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.

6.7.3 Measurement Procedure and Data

Maximum measure level (mW/cm^2)	Limit (mW/cm^2)	Test Result
0.055	1	Pass

7 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZEM260400255602

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 t (86–20) 82155555 www.sgsgroup.com.cn
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

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZEM2604002556HS

- End of the Report -

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 t (86-20) 82155555 www.sgsgroup.com.cn
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