

TEST REPORT

Application No.: GZEM2108004767HS
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.: P100N38APH-SS, P100N38(X)H-(Y), P100N38(X)-(Y) ♣
 ♣ 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: 2021-08-02
Date of Test: 2021-08-04 to 2021-08-06
Date of Issue: 2021-08-13

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

Kobe Jian
EMC Laboratory Manager

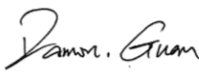
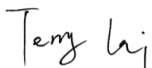


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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-08-13		Original

Authorized for issue by			
			
		<hr/> Damon Guan/Project Engineer	
			
		<hr/> Terry Lai/Reviewer	



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz to 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	Pass
Radiated Emissions (30MHz-1GHz)		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 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.:

Only the model P100N38APH-SS was tested.

Model No.: P100N38APH-SS, P100N38(X)H-(Y), P100N38(X)-(Y)

P: with microwave function only

100: denote the output power is 1000W

38: denote different cavity in 38liters.

Variable (X) may be

AL, AP, AP, DAP, 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.

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 P100N38APH-SS was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power supply: AC 120V 60Hz
 Test Voltage: AC 120V 60Hz
 Cable(s): About 1.0m x 3 wires unscreened AC mains cable.

4.2 Description of Support Units

Load for microwave ovens for testing:

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 to 30MHz)	3.12dB
Radiated Emissions (Magnetic field Strength) (9kHz-30MHz)	3.12dB
Radiated Emissions (30MHz-1GHz)	5.06dB (3m)
	4.46dB (10m)
Radiated Emissions (above 1GHz)	5.08dB (1GHz-6GHz)
	5.14dB (above 6GHz)

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
 198 Kezhu Road, Sciencetech 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:

- **NVLAP (Lab Code: 200611-0)**

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

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

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/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.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **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.



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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 to 30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(9kHz-3GHz)	Rohde & Schwarz	ESCI	EMC0056	2021-04-09	2022-04-08
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2020-09-25	2021-09-24
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08
Voltage Probe(10kHz-30MHz)	SCHWARZBECK MESS-ELEKTRONIK	TK 9421	EMC0106	2020-06-09	2022-06-08
Current Probe(10kHz-200MHz)	TESEQ GmbH	CSP 9160A	EMC2106	2021-01-10	2023-01-09
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A

Radiated Emissions (Magnetic field Strength) (9kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
EMI Test Receiver(9kHz-3GHz)	Rohde & Schwarz	ESCI	EMC0056	2021-01-03	2022-01-02
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Trilog Broadband Antenna(25MHz-1GHz)-On Site	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05
Trilog Broadband Antenna(25MHz-1GHz)-Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2019-12-27	2021-12-26
High Pass Filter (915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2021-01-08	2022-01-07
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Active Loop Antenna-GRAY	EMCO	6502	EMC0523	2020-05-19	2022-05-18



Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Trilog Broadband Antenna(25MHz-1GHz)-Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
High Pass Filter (915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2021-01-08	2022-01-07
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
High Pass Filter (915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2021-01-08	2022-01-07
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-01-08	2022-01-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2020-09-17	2021-09-16
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



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Radiation Hazard Test					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Electric Field Probe(100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2021-05-20	2022-05-19

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-05
AC Power Source	California	50001iX	EMC0608	2021-03-27	2022-03-26
Power Analyzer	California	PACS	EMC0607	2021-03-27	2022-03-26



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6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals(150kHz to 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(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

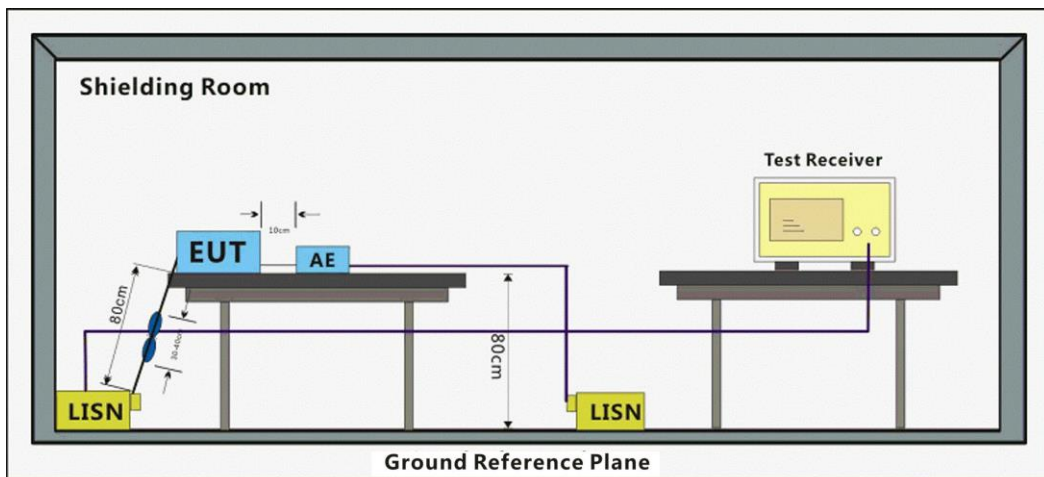
6.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 25.5 °C Humidity: 52 % RH Atmospheric Pressure: 995 mbar

6.1.2 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.

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

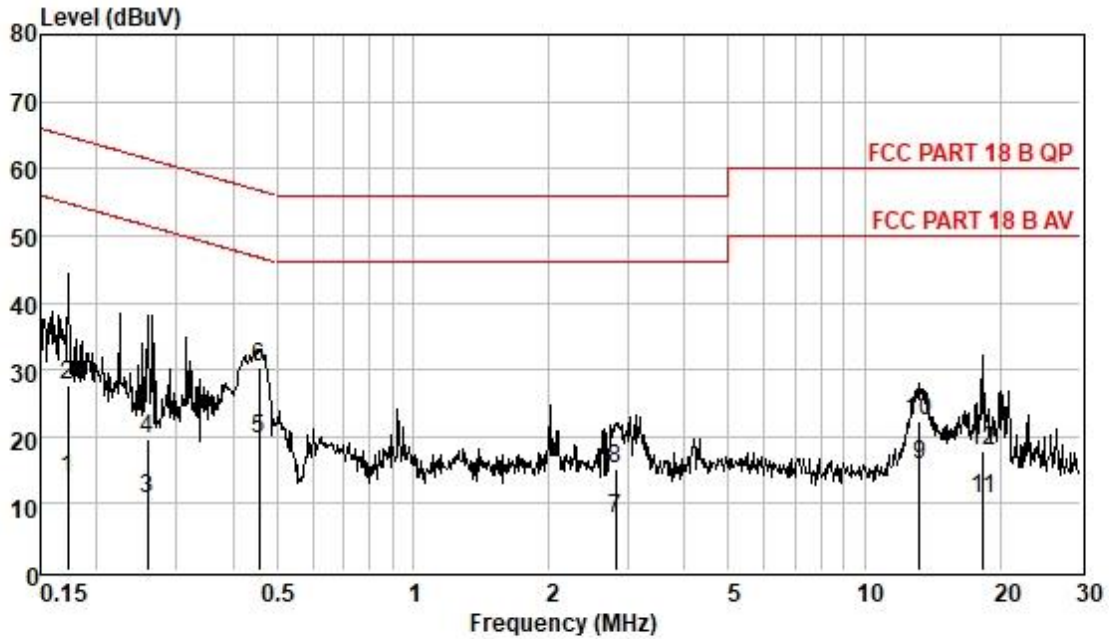
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

Measured Level = Read level + Cable Loss + LISN Factor



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Test Mode: 00; Line: Live line



Pol :LINE
Mode :
Model :

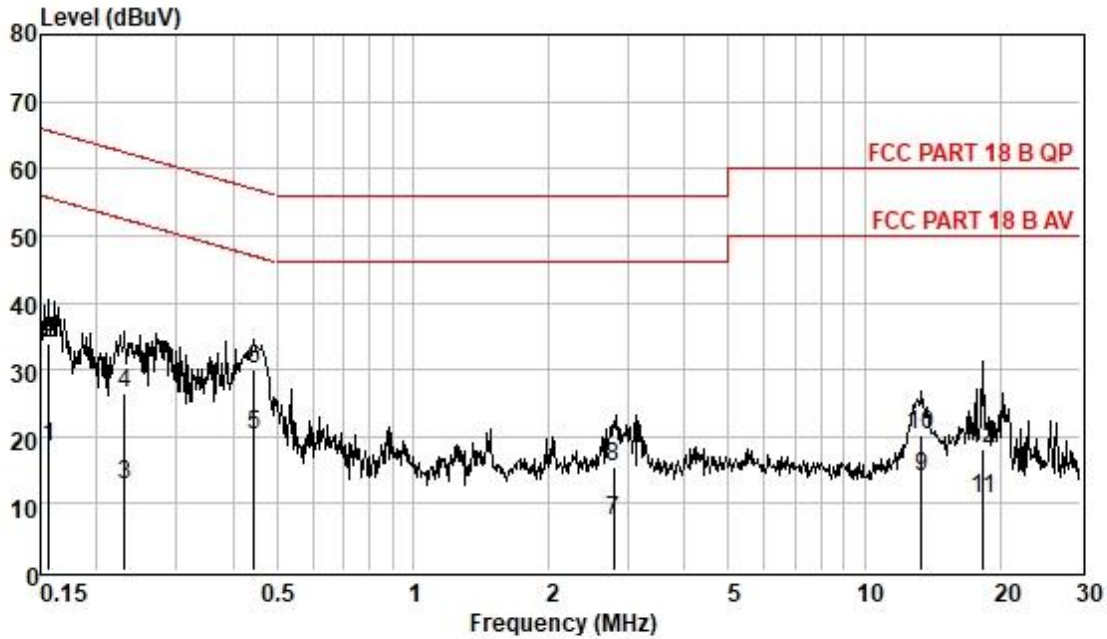
Freque _{nc} MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.17	3.95	0.06	9.62	13.63	54.86	-41.23	Average
0.17	17.91	0.06	9.62	27.59	64.86	-37.27	QP
0.26	1.16	0.06	9.62	10.84	51.47	-40.63	Average
0.26	10.02	0.06	9.62	19.70	61.47	-41.77	QP
0.46	10.04	0.07	9.63	19.74	46.76	-27.02	Average
0.46	20.58	0.07	9.63	30.28	56.76	-26.48	QP
2.81	-2.04	0.14	9.62	7.72	46.00	-38.28	Average
2.81	5.44	0.14	9.62	15.20	56.00	-40.80	QP
13.20	5.66	0.28	9.72	15.66	50.00	-34.34	Average
13.20	12.41	0.28	9.72	22.41	60.00	-37.59	QP
18.33	0.47	0.35	9.75	10.57	50.00	-39.43	Average
18.33	7.72	0.35	9.75	17.82	60.00	-42.18	QP



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Test Mode: 00; Line: Neutral Line



Pol : NEUTRAL
Mode :
Model :

Freque _{nc} MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.16	8.85	0.06	9.55	18.46	55.65	-37.19	Average
0.16	24.35	0.06	9.55	33.96	65.65	-31.69	QP
0.23	3.08	0.06	9.55	12.69	52.44	-39.75	Average
0.23	16.93	0.06	9.55	26.54	62.44	-35.90	QP
0.44	10.71	0.06	9.56	20.33	46.98	-26.65	Average
0.44	20.44	0.06	9.56	30.06	56.98	-26.92	QP
2.78	-2.28	0.14	9.55	7.41	46.00	-38.59	Average
2.78	5.64	0.14	9.55	15.33	56.00	-40.67	QP
13.34	4.17	0.29	9.62	14.08	50.00	-35.92	Average
13.34	10.26	0.29	9.62	20.17	60.00	-39.83	QP
18.33	0.58	0.35	9.66	10.59	50.00	-39.41	Average
18.33	8.04	0.35	9.66	18.05	60.00	-41.95	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
 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	973.7	Limit=20lg(25*SQRT(power/500))+20lg(300/10)= 60.40 dBuV/m

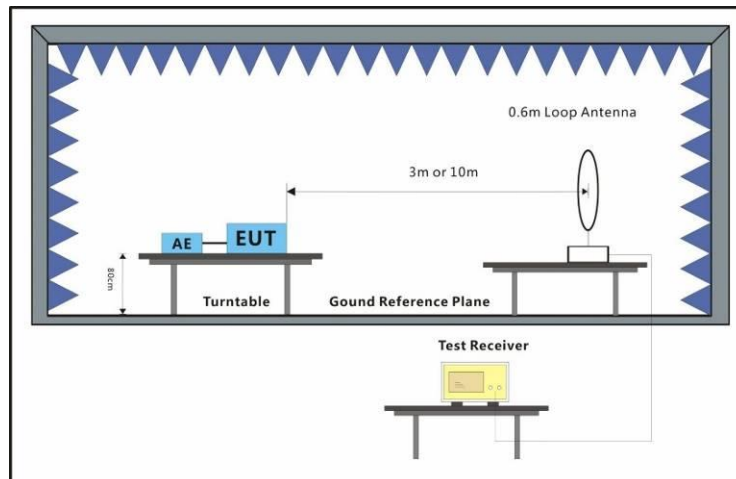
6.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.5 °C Humidity: 52.4 % RH Atmospheric Pressure: 995 mbar

6.2.2 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.

6.2.3 Test Setup Diagram



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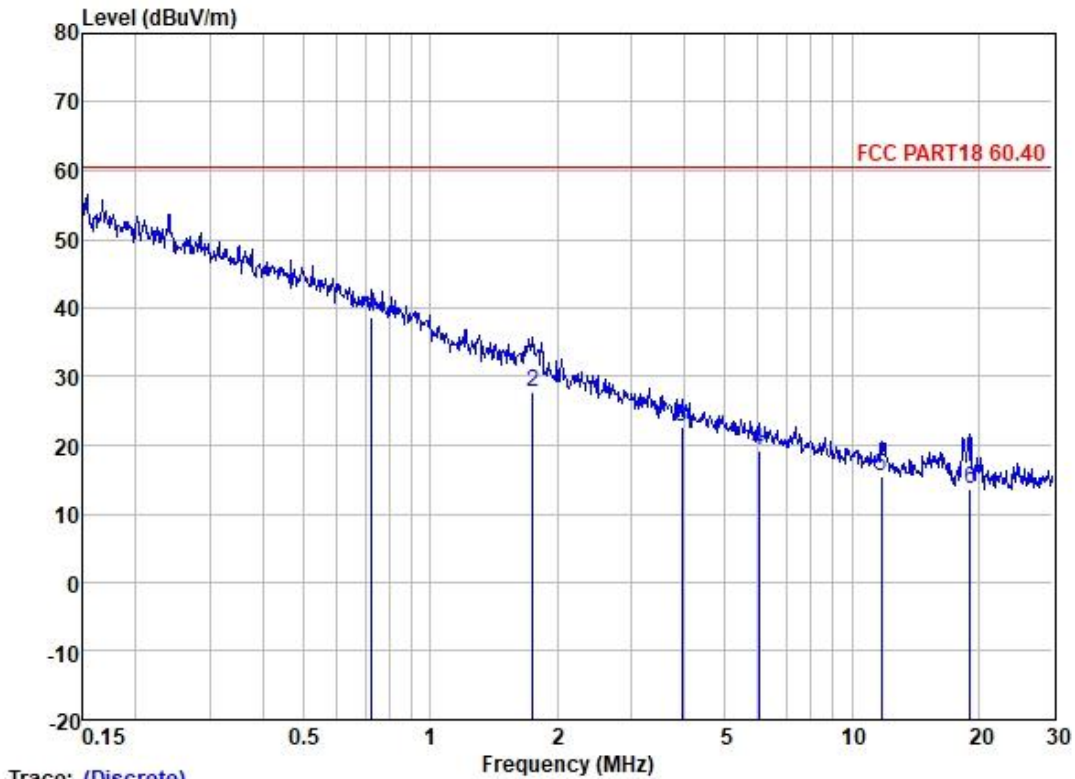
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6.2.4 Measurement Procedure and Data

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.

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

Mode:00; Polarity:Horizontal



Trace: (Discrete)

Site : SGS
 Condition : FCC PART18 60.40 HORIZONTAL
 Job :
 Model :
 Power :
 Test Mode :

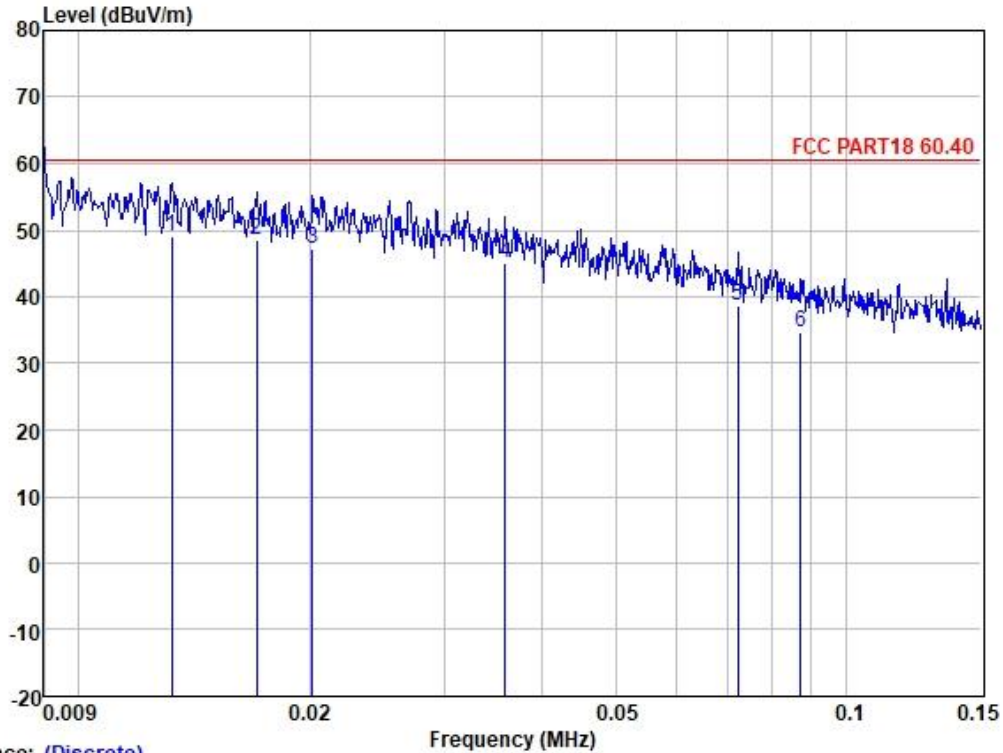
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	0.73	57.33	10.53	0.10	29.41	38.55	60.40	-21.85	HORIZONTAL	Average
2	1.75	46.10	10.93	0.10	29.38	27.75	60.40	-32.65	HORIZONTAL	Average
3	3.94	41.23	10.57	0.20	29.34	22.66	60.40	-37.74	HORIZONTAL	Average
4	6.02	37.75	10.43	0.30	29.32	19.16	60.40	-41.24	HORIZONTAL	Average
5	11.74	34.68	9.66	0.37	29.27	15.44	60.40	-44.96	HORIZONTAL	Average
6	19.12	33.76	8.44	0.50	29.20	13.50	60.40	-46.90	HORIZONTAL	Average



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Mode:00; Polarity:Horizontal



Trace: (Discrete)

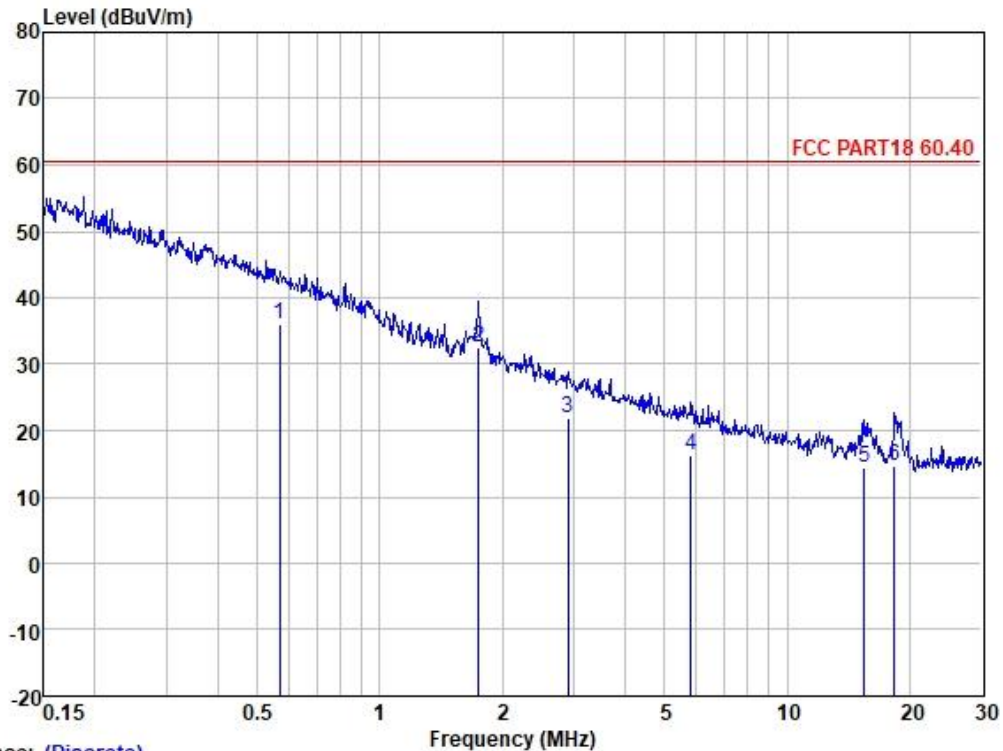
Site : SGS
 Condition : FCC PART18 60.40 HORIZONTAL
 Job :
 Model :
 Power :
 Test Mode :

	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	dBuV		
1	0.01	62.44	14.94	0.00	28.23	49.15	60.40	-11.25	HORIZONTAL	Average
2	0.02	63.59	13.39	0.00	28.32	48.66	60.40	-11.74	HORIZONTAL	Average
3	0.02	62.47	13.00	0.00	28.39	47.08	60.40	-13.32	HORIZONTAL	Average
4	0.04	62.02	12.16	0.00	29.09	45.09	60.40	-15.31	HORIZONTAL	Average
5	0.07	57.01	11.03	0.00	29.40	38.64	60.40	-21.76	HORIZONTAL	Average
6	0.09	53.52	10.57	0.00	29.44	34.65	60.40	-25.75	HORIZONTAL	Average



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Mode:00; Polarity:Vertical



Trace: (Discrete)

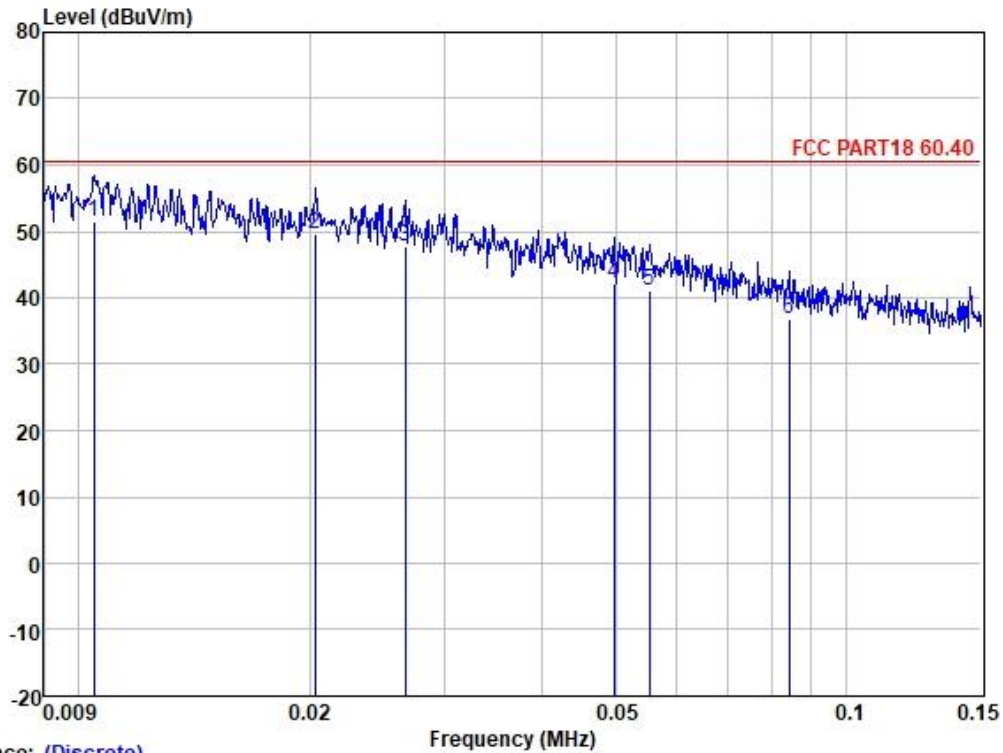
Site : SGS
 Condition : FCC PART18 60.40 VERTICAL
 Job :
 Model :
 Power :
 Test Mode :

	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	dBuV		
1	0.57	54.66	10.67	0.10	29.42	36.01	60.40	-24.39	VERTICAL	Average
2	1.75	50.89	10.93	0.10	29.38	32.54	60.40	-27.86	VERTICAL	Average
3	2.90	40.15	10.84	0.19	29.36	21.82	60.40	-38.58	VERTICAL	Average
4	5.80	34.81	10.45	0.28	29.32	16.22	60.40	-44.18	VERTICAL	Average
5	15.47	34.63	8.68	0.40	29.24	14.47	60.40	-45.93	VERTICAL	Average
6	18.33	35.04	8.47	0.45	29.21	14.75	60.40	-45.65	VERTICAL	Average



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Mode:00; Polarity:Vertical



Trace: (Discrete)

Site : SGS
 Condition : FCC PART18 60.40 VERTICAL
 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	dBuV		
1	0.01	63.82	15.72	0.00	28.18	51.36	60.40	-9.04	VERTICAL	Average
2	0.02	64.95	12.99	0.00	28.39	49.55	60.40	-10.85	VERTICAL	Average
3	0.03	63.48	12.77	0.00	28.60	47.65	60.40	-12.75	VERTICAL	Average
4	0.05	59.52	11.90	0.00	29.28	42.14	60.40	-18.26	VERTICAL	Average
5	0.06	58.53	11.77	0.00	29.32	40.98	60.40	-19.42	VERTICAL	Average
6	0.08	55.74	10.63	0.00	29.44	36.93	60.40	-23.47	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	973.7	Limit=20lg(25*SQRT(power/500))+20lg(300/3)= 70.85 dBuV/m

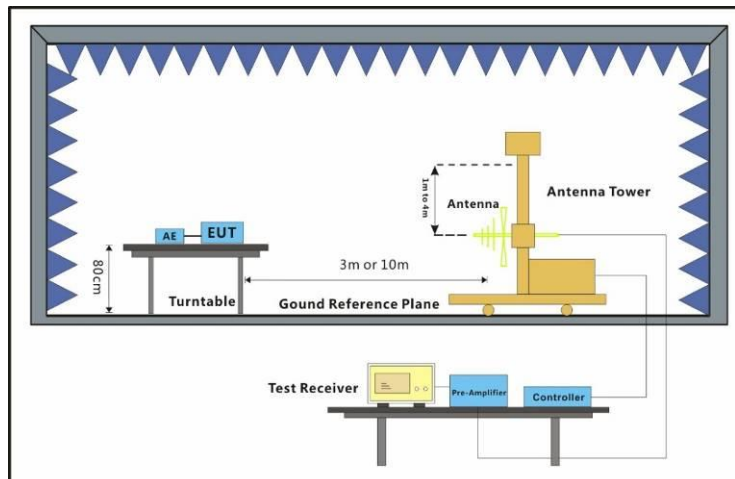
6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.5 °C Humidity: 52.8 % RH Atmospheric Pressure: 995 mbar

6.3.2 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.

6.3.3 Test Setup Diagram

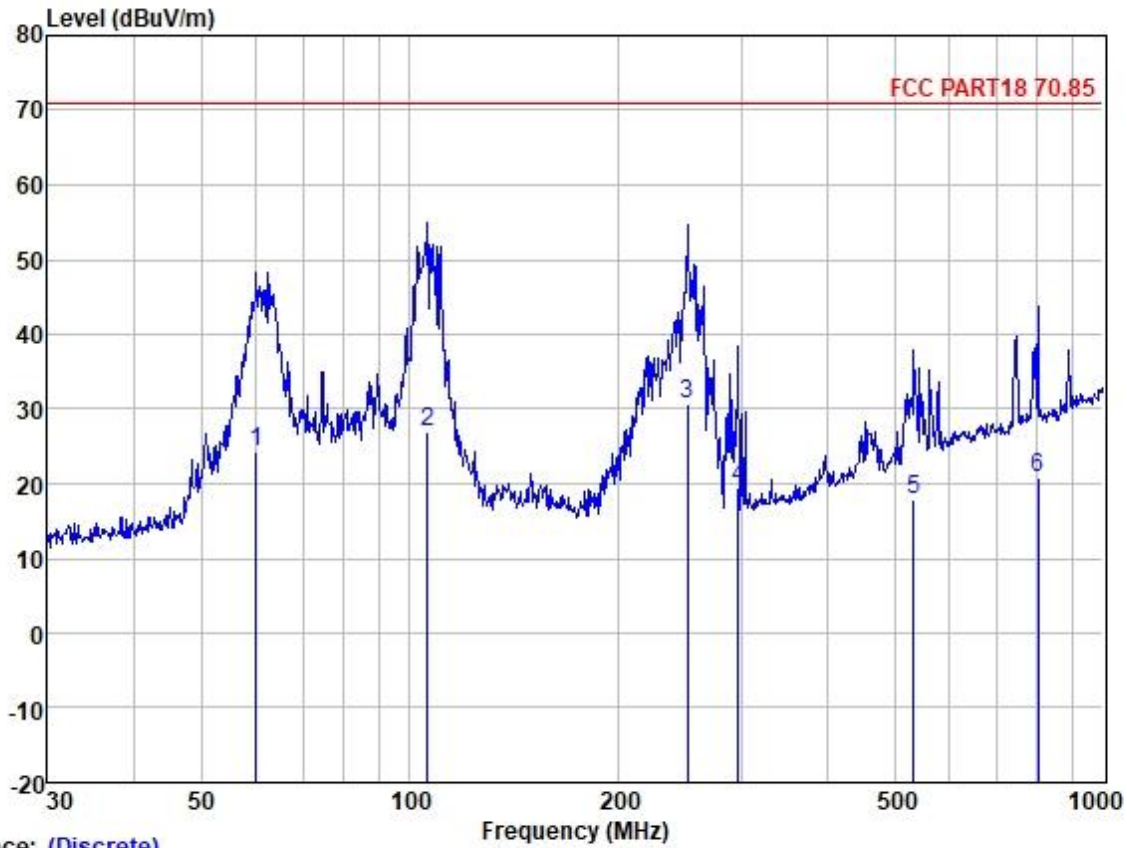


6.3.4 Measurement Procedure and Data

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.

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

Test Mode: 00; Polarity: Horizontal



Trace: (Discrete)

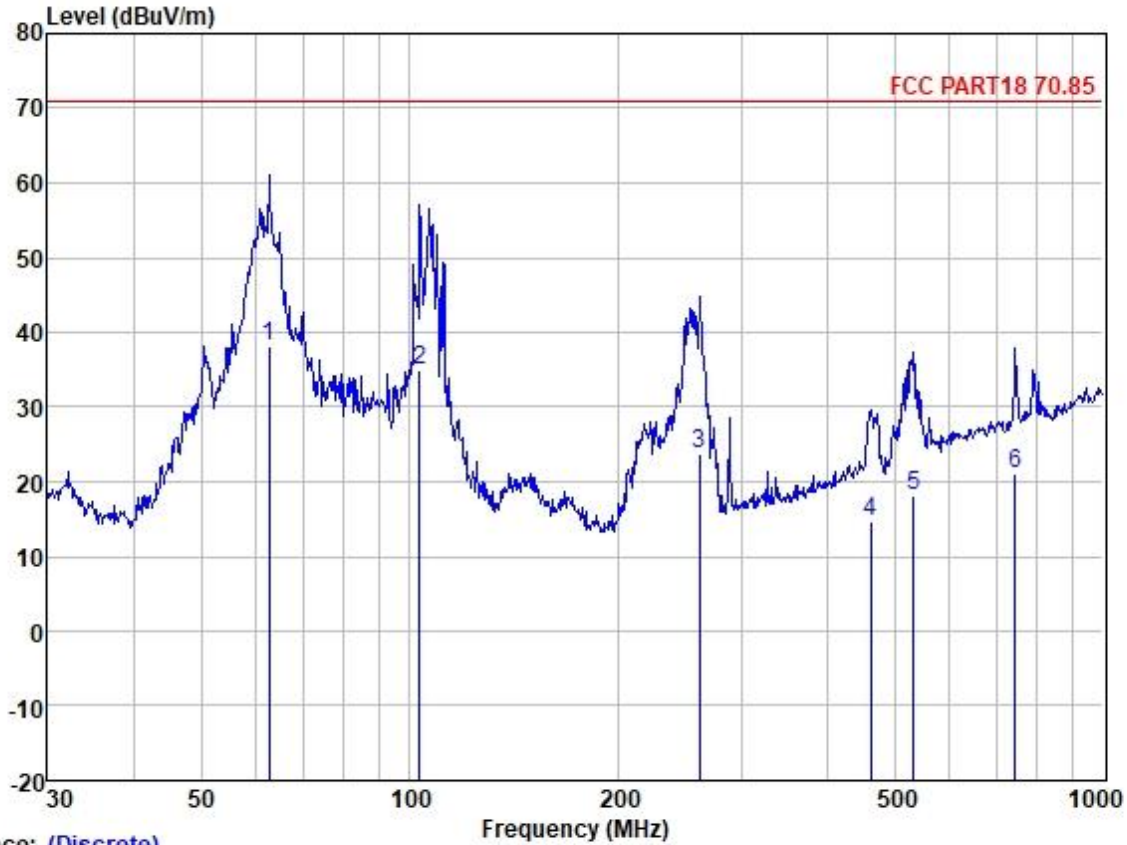
Site : SGS
 Condition : FCC PART18 70.85 HORIZONTAL
 Job :
 Model :
 Power :
 Test Mode :

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	dBuV		
1	60.07	36.80	13.40	1.33	24.37	70.85	-46.48	HORIZONTAL	Average
2	106.01	42.22	10.00	1.68	27.07	70.85	-44.02	HORIZONTAL	Average
3	251.18	42.39	12.10	2.70	30.58	70.85	-40.27	HORIZONTAL	Average
4	297.22	29.42	13.55	2.97	26.55	70.85	-51.46	HORIZONTAL	Average
5	531.96	23.43	18.32	4.13	28.04	70.85	-53.01	HORIZONTAL	Average
6	804.60	20.14	22.65	5.99	28.03	70.85	-50.10	HORIZONTAL	Average



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Test Mode: 00; Polarity: Vertical



Trace: (Discrete)

Site : SGS
 Condition : FCC PART18 70.85 VERTICAL
 Job :
 Model :
 Power :
 Test Mode :

	Read Freq	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	MHz	Factor	Loss	Factor	Level	Line	Limit	Phase	
		dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	62.65	13.04	1.31	27.15	38.08	70.85	-32.77	VERTICAL	Average
2	103.08	9.60	1.66	27.07	34.99	70.85	-35.86	VERTICAL	Average
3	261.06	12.25	2.71	26.59	23.72	70.85	-47.13	VERTICAL	Average
4	462.35	17.47	4.16	27.81	14.59	70.85	-56.26	VERTICAL	Average
5	531.96	18.32	4.13	28.04	18.24	70.85	-52.61	VERTICAL	Average
6	747.48	22.15	5.28	28.10	20.97	70.85	-49.88	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	973.7	Limit=20lg(25*SQRT(power/500))+20lg(300/3)= 70.85 dBuV/m

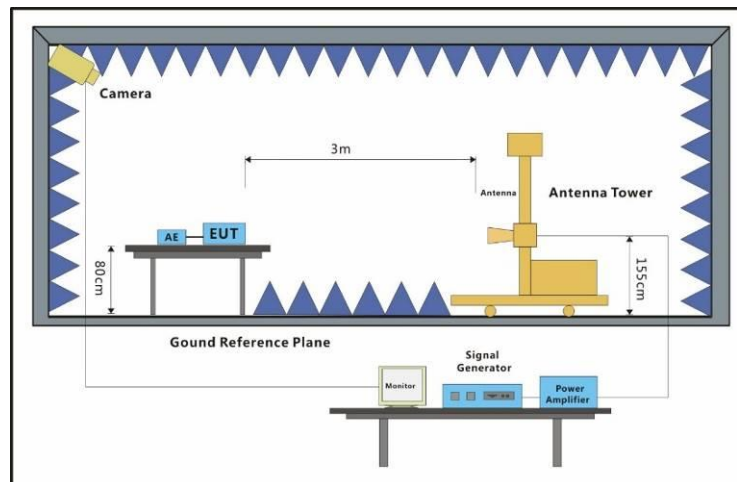
6.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 25.6 °C Humidity: 58.1 % RH Atmospheric Pressure: 995 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



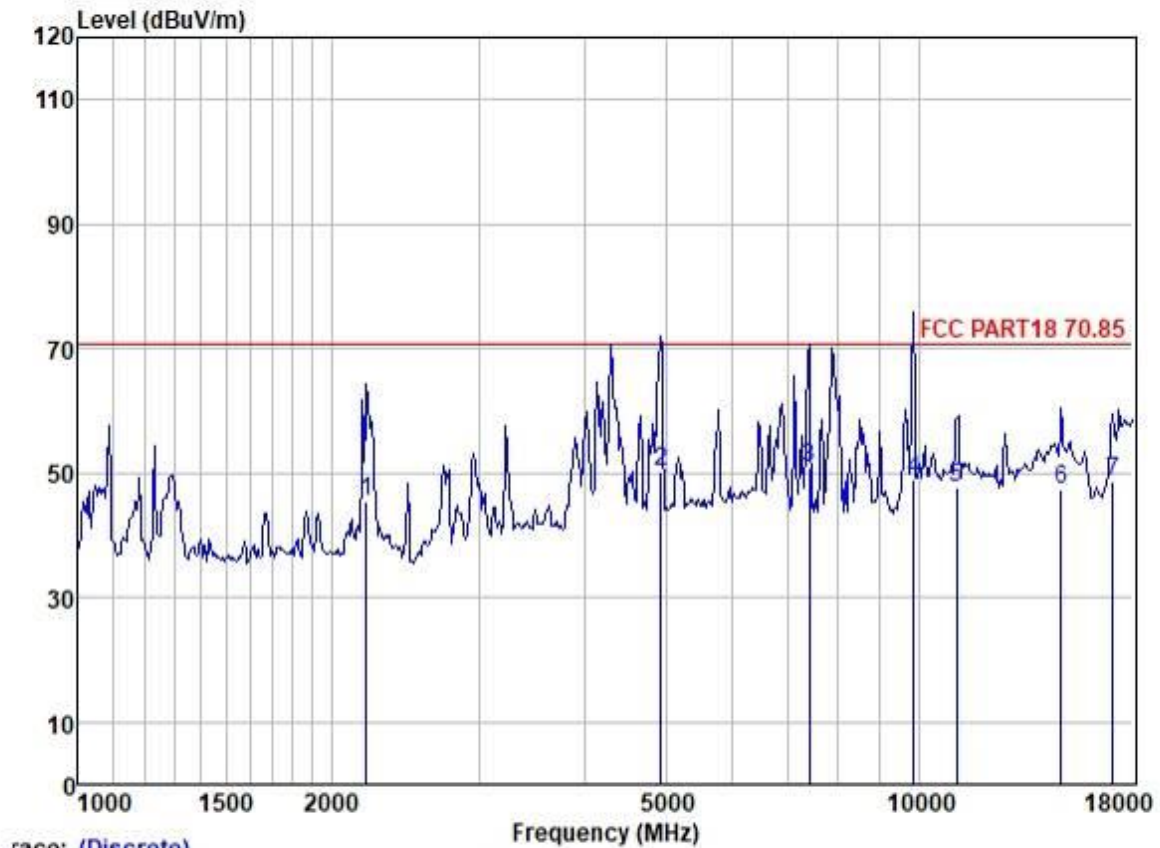
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6.4.4 Measurement Procedure and Data

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.

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

Test Mode: 00; Polarity: Horizontal



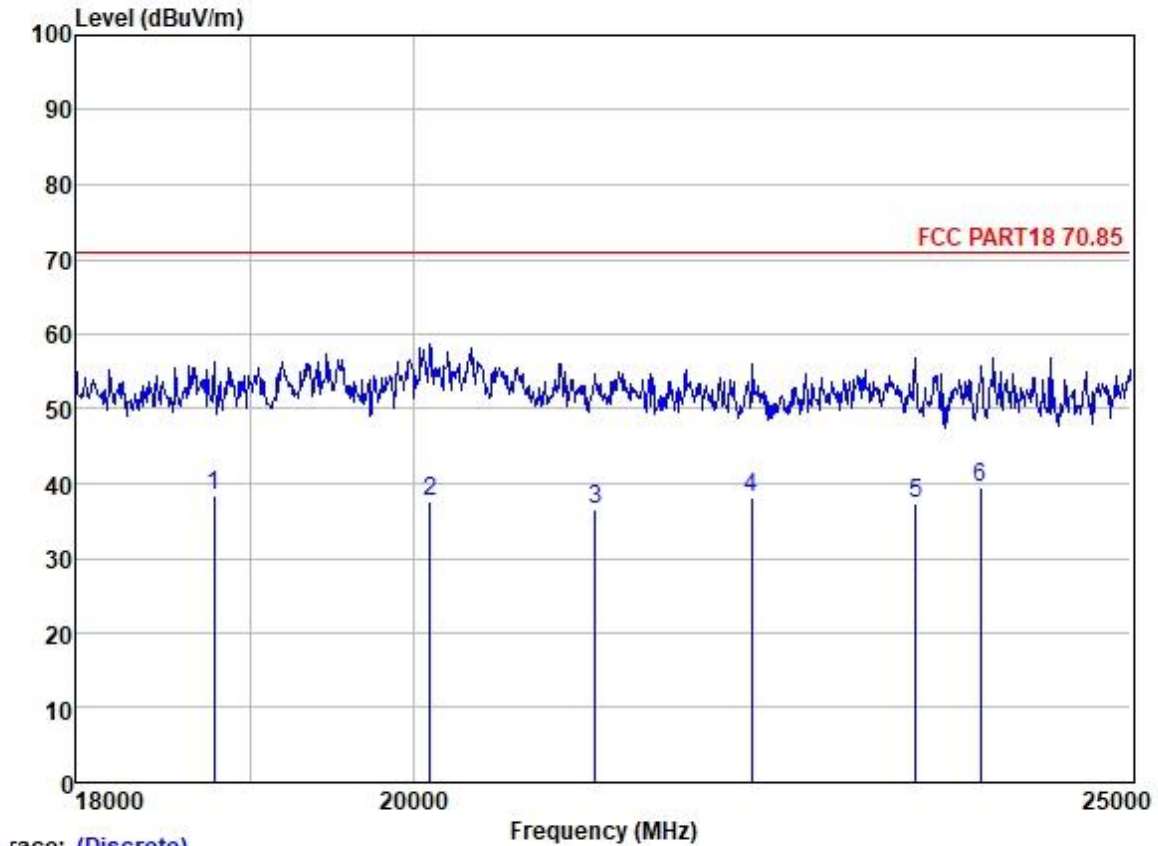
Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2201.352	53.27	26.62	3.20	37.65	45.44	70.85	-25.41	HORIZONTAL	Average
2	4933.370	49.72	31.62	5.60	36.84	50.10	70.85	-20.75	HORIZONTAL	Average
3	7408.490	45.84	36.22	6.20	37.46	50.80	70.85	-20.05	HORIZONTAL	Average
4	9866.789	40.74	38.60	6.98	37.41	48.91	70.85	-21.94	HORIZONTAL	Average
5	11108.160	37.09	40.07	7.82	37.22	47.76	70.85	-23.09	HORIZONTAL	Average
6	14788.150	33.25	40.94	8.52	35.33	47.38	70.85	-23.47	HORIZONTAL	Average
7	17038.150	32.41	42.05	9.51	35.34	48.63	70.85	-22.22	HORIZONTAL	Average



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Test Mode: 00; Polarity: Horizontal



Trace: (Discrete)

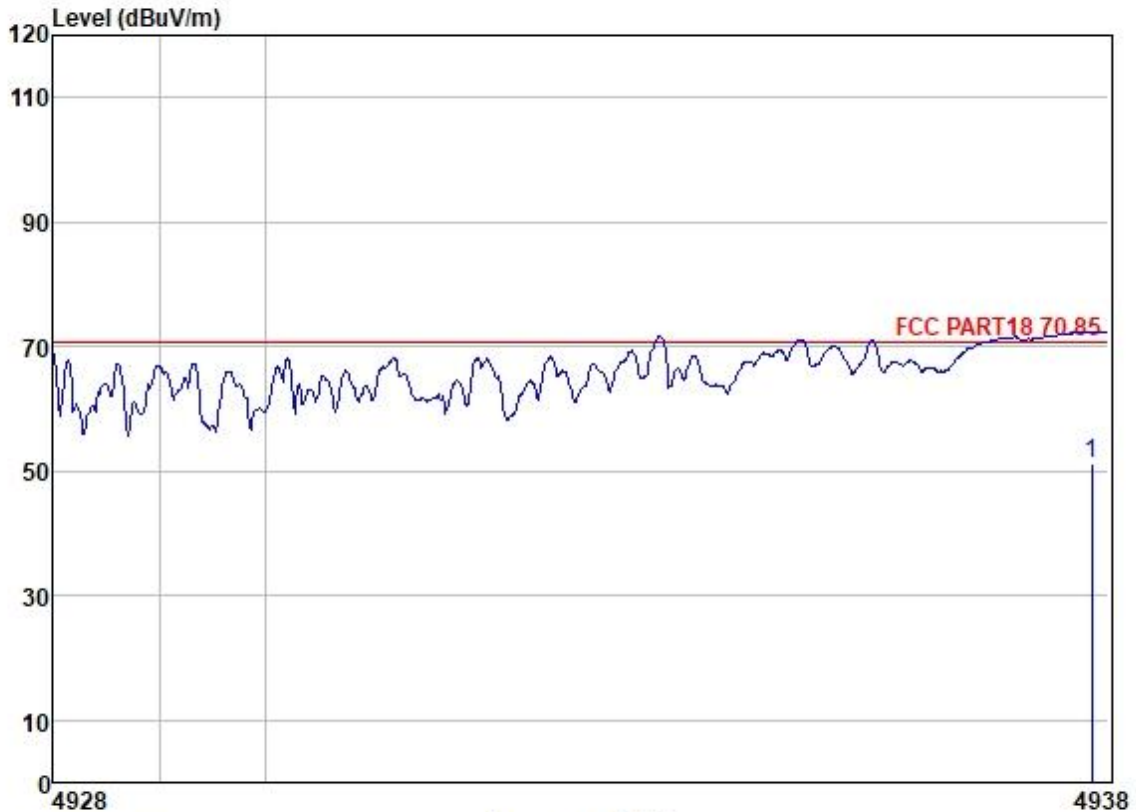
	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	18791.520	19.09	37.99	16.85	35.60	38.33	70.85	-32.52	HORIZONTAL Average
2	20093.990	17.84	37.99	17.34	35.59	37.58	70.85	-33.27	HORIZONTAL Average
3	21157.530	16.08	37.93	18.06	35.41	36.66	70.85	-34.19	HORIZONTAL Average
4	22211.590	16.49	38.41	18.69	35.37	38.22	70.85	-32.63	HORIZONTAL Average
5	23379.530	13.94	39.60	19.56	35.89	37.21	70.85	-33.64	HORIZONTAL Average
6	23852.760	15.75	39.60	20.30	36.08	39.57	70.85	-31.28	HORIZONTAL Average



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Test Mode: 00; Polarity: Horizontal



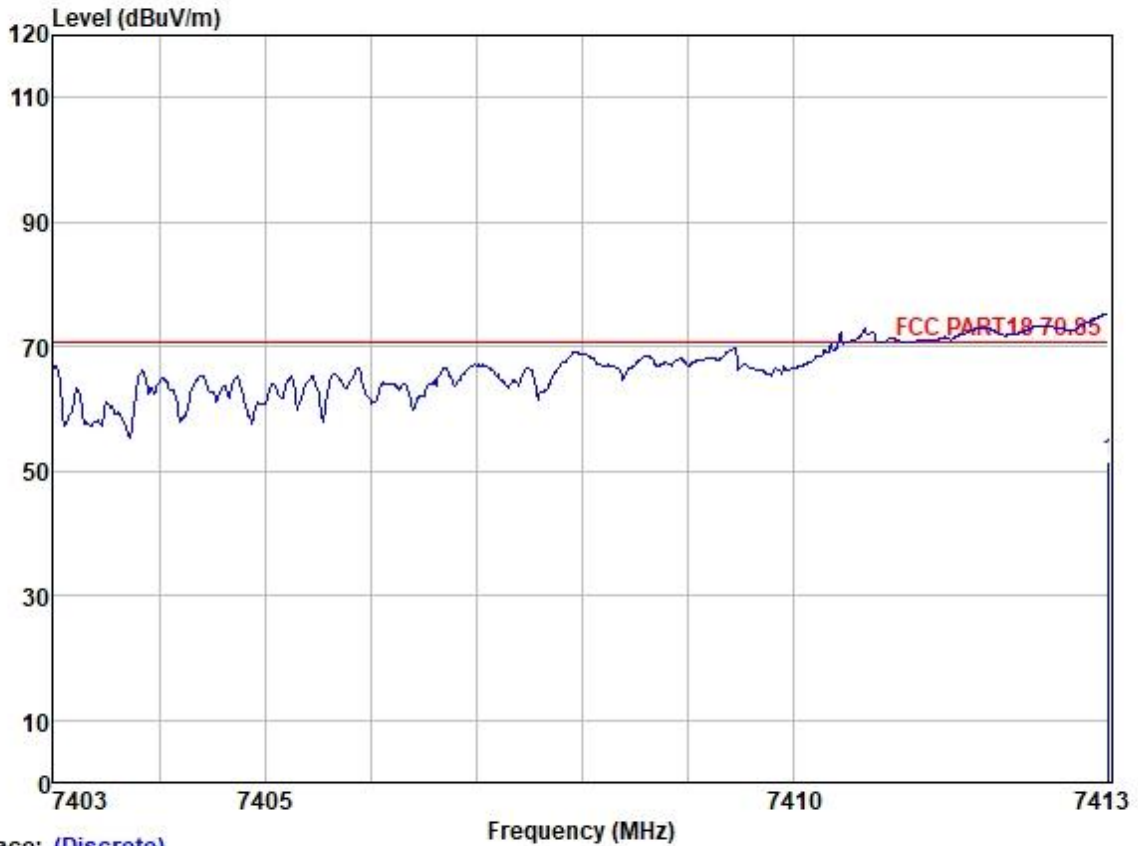
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 4937.840	50.93	31.62	5.60	36.84	51.31	70.85	-19.54	HORIZONTAL	Average



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Test Mode: 00; Polarity: Horizontal



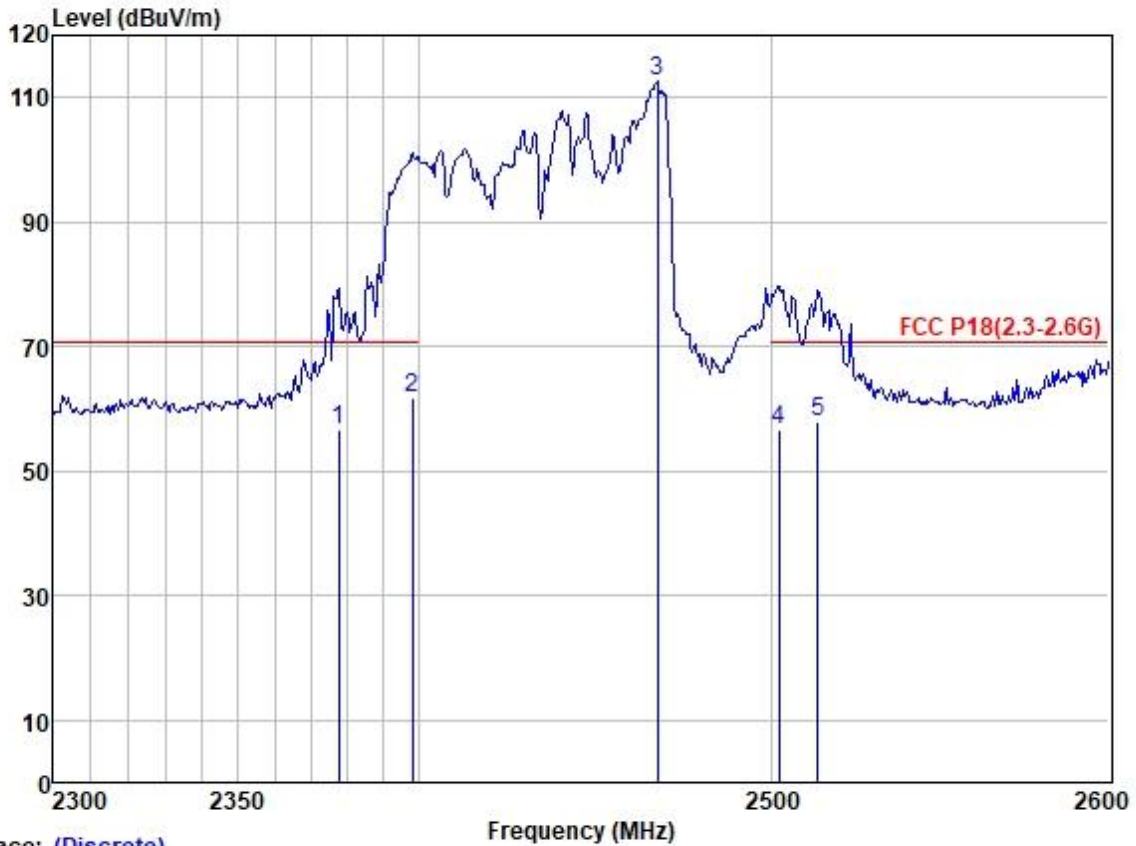
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	7413.000	46.63	36.22	6.20	37.47	51.58	70.85	-19.27	HORIZONTAL Average



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Test Mode: 00; Polarity: Horizontal



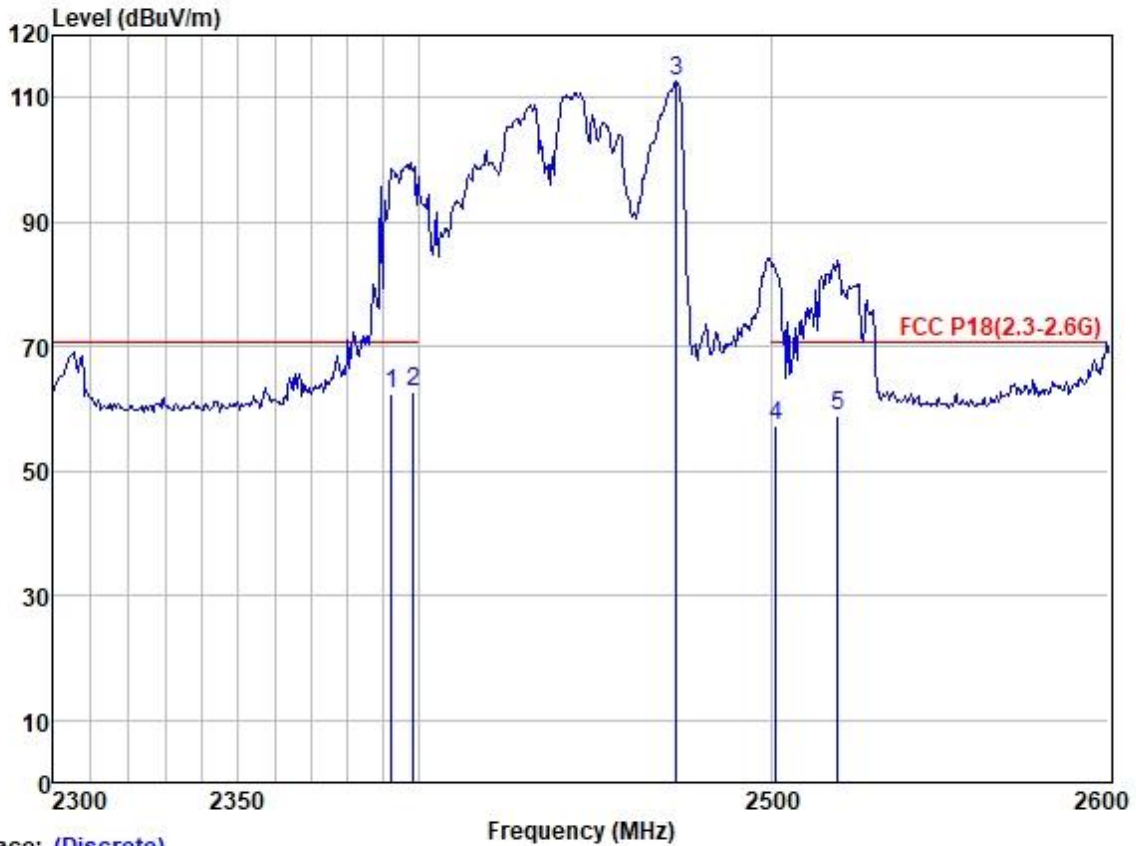
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2377.410	25.75	27.31	3.46	0.00	56.52	70.85	-14.33	HORIZONTAL	Average
2	2397.901	30.77	27.35	3.50	0.00	61.62	70.85	-9.23	HORIZONTAL	Average
3	2467.086	81.56	27.45	3.50	0.00	112.51	-----	-----	HORIZONTAL	Peak
4	2502.116	25.76	27.50	3.40	0.00	56.66	70.85	-14.19	HORIZONTAL	Average
5	2513.492	27.00	27.52	3.41	0.00	57.93	70.85	-12.92	HORIZONTAL	Average



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Test Mode: 00; Polarity: Vertical



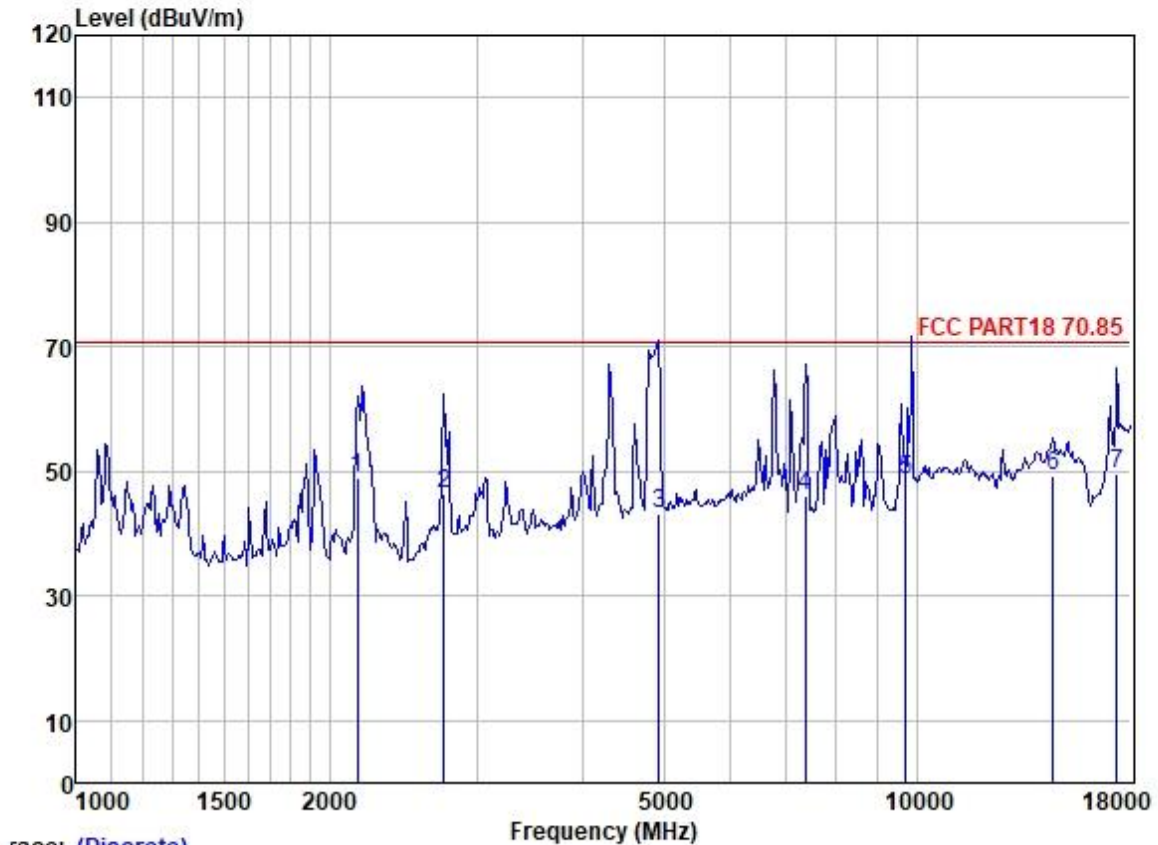
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2392.029	31.55	27.34	3.49	0.00	62.38	70.85	-8.47	VERTICAL	Average
2	2398.210	32.00	27.35	3.50	0.00	62.85	70.85	-8.00	VERTICAL	Average
3	2472.536	81.58	27.46	3.55	0.00	112.59	-----	-----	VERTICAL	Peak
4	2501.196	26.45	27.50	3.40	0.00	57.35	70.85	-13.50	VERTICAL	Average
5	2519.354	27.91	27.52	3.42	0.00	58.85	70.85	-12.00	VERTICAL	Average



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Test Mode: 00; Polarity: Vertical



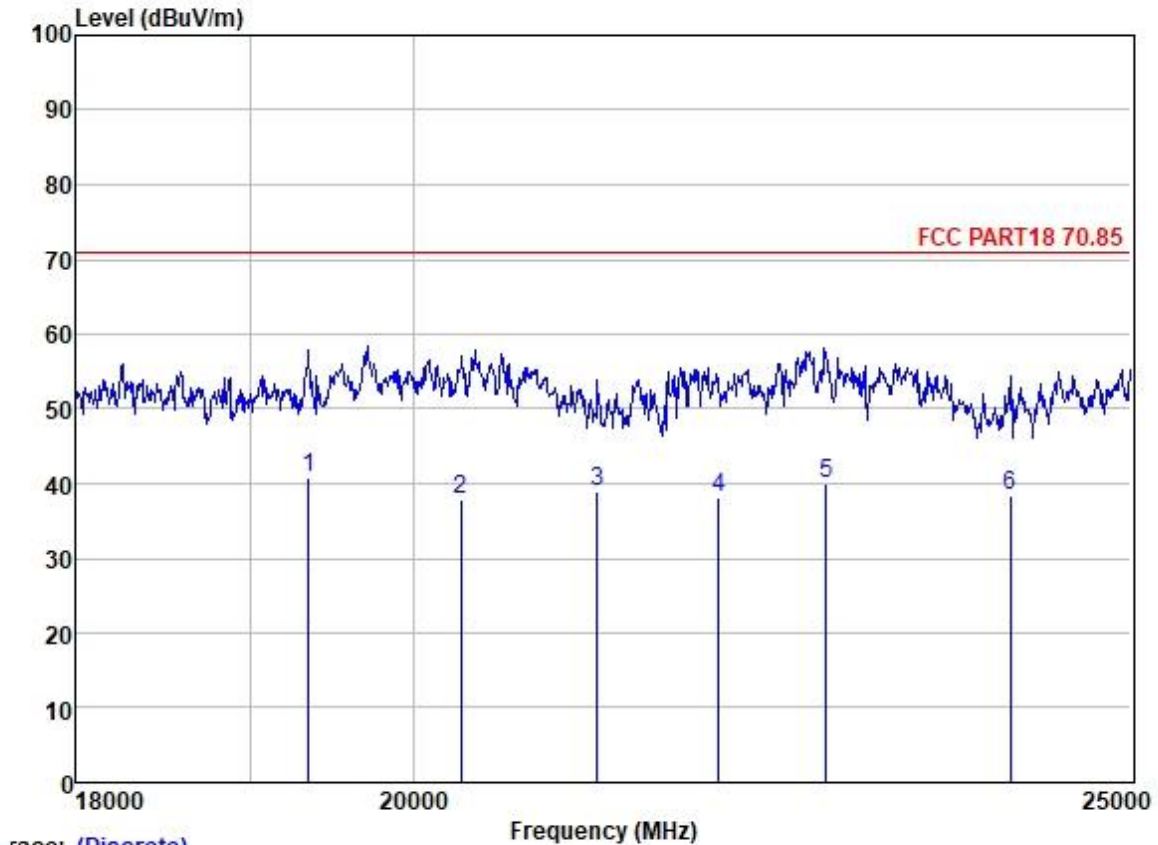
Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over					
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	2158.440	56.83	26.45	3.18	37.66	48.80	70.85	-22.05	VERTICAL	Average
2	2742.143	52.12	27.98	3.64	37.44	46.30	70.85	-24.55	VERTICAL	Average
3	4938.540	42.73	31.64	5.62	36.84	43.15	70.85	-27.70	VERTICAL	Average
4	7368.741	41.34	36.12	6.17	37.45	46.18	70.85	-24.67	VERTICAL	Average
5	9707.980	40.64	38.44	7.04	37.42	48.70	70.85	-22.15	VERTICAL	Average
6	14533.910	34.78	41.26	8.48	35.32	49.20	70.85	-21.65	VERTICAL	Average
7	17288.470	31.39	43.21	10.24	35.33	49.51	70.85	-21.34	VERTICAL	Average



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Test Mode: 00; Polarity: Vertical



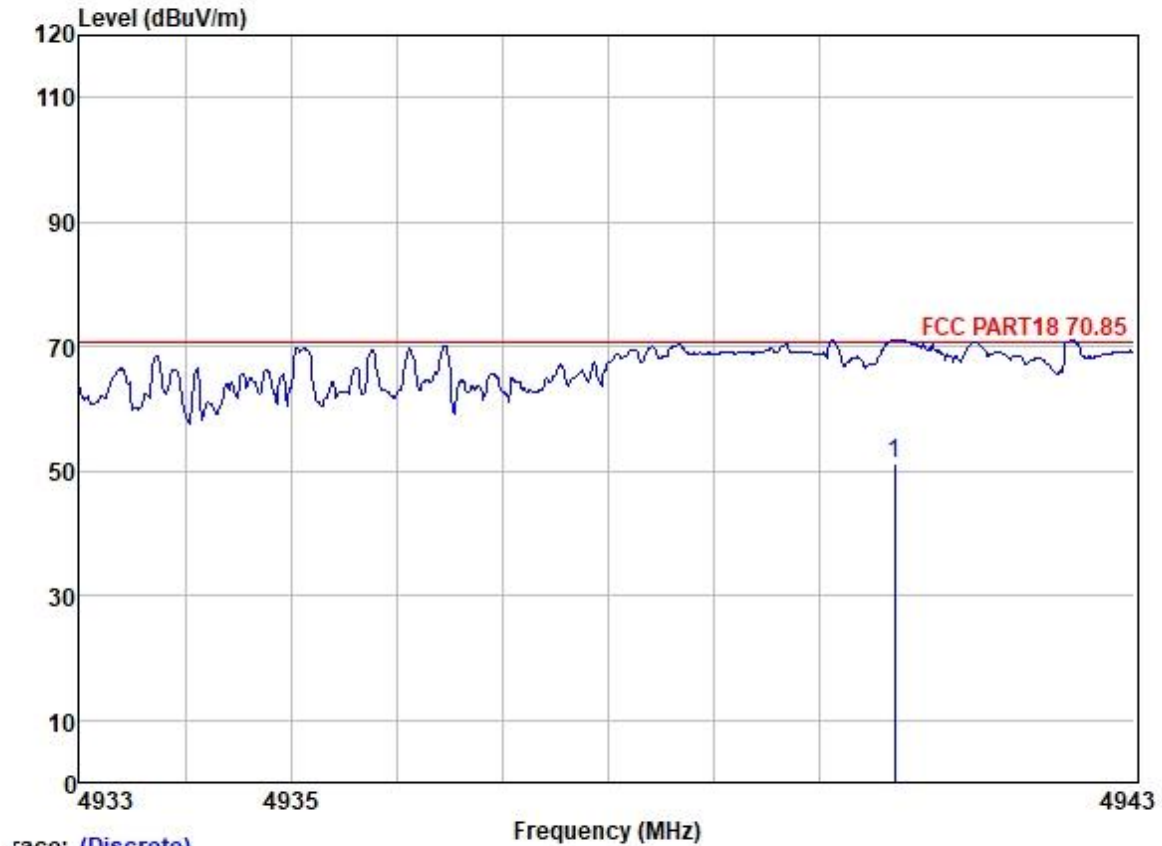
Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over					
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	19349.040	21.37	38.00	17.01	35.60	40.78	70.85	-30.07	VERTICAL	Average
2	20292.990	17.91	37.98	17.45	35.56	37.78	70.85	-33.07	VERTICAL	Average
3	21171.430	18.34	37.93	18.07	35.41	38.93	70.85	-31.92	VERTICAL	Average
4	21986.550	16.51	38.20	18.60	35.30	38.01	70.85	-32.84	VERTICAL	Average
5	22735.740	17.17	39.33	19.10	35.57	40.03	70.85	-30.82	VERTICAL	Average
6	24073.170	14.35	39.59	20.44	36.10	38.28	70.85	-32.57	VERTICAL	Average



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Test Mode: 00; Polarity: Vertical



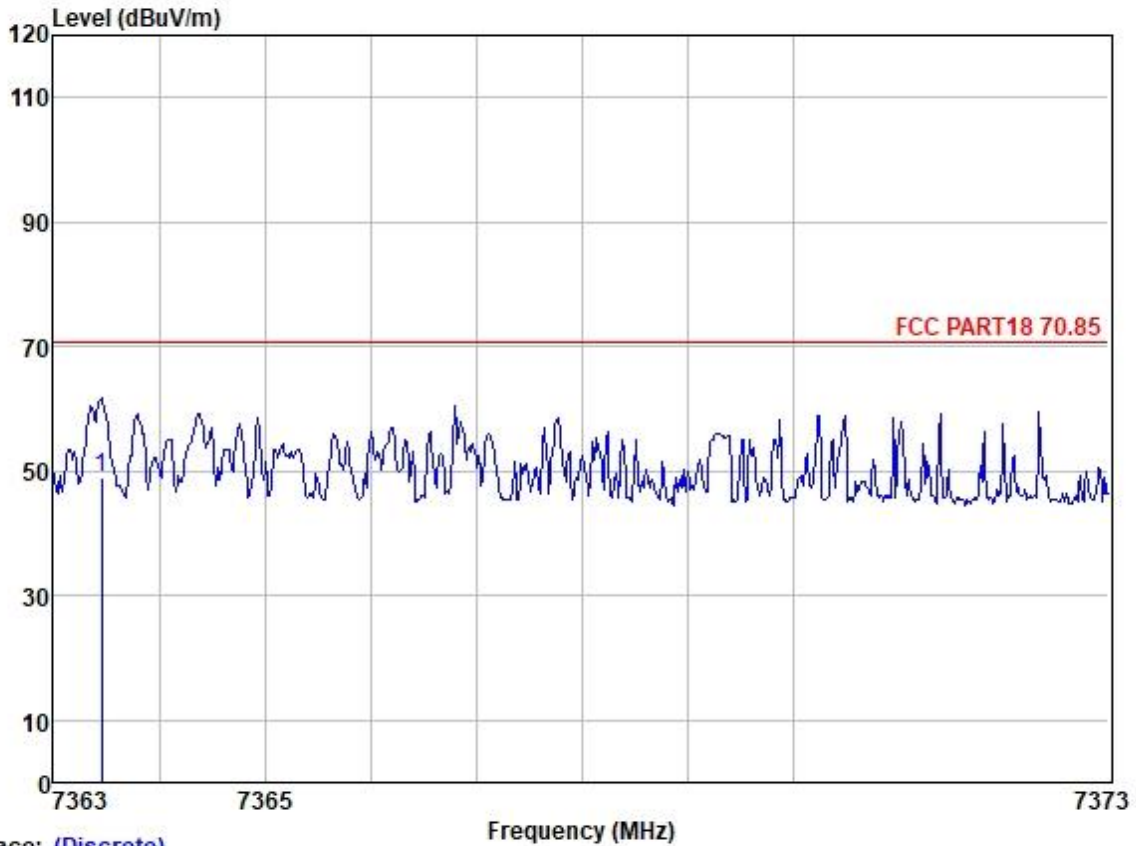
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	4940.718	50.75	31.64	5.62	36.84	51.17	70.85 -19.68	VERTICAL	Average



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Test Mode: 00; Polarity: Vertical



Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	7363.459	43.96	36.12	6.17	37.45	48.80	70.85 -22.05	VERTICAL	Average



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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:

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

NOTE :

P is the microwave power output, in watts
 mw is the mass of the water, in grams
 mc 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: 22 °C Humidity: 51 % RH Atmospheric Pressure: 995 mbar

6.5.2 Test Mode Description

Pre-scan / Mode	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

Mass of water (g)	Mass of the container (g)	Ambient temperature (°C)	Initial temperature (°C)	Final temperature (°C)	Heating time(s)	Power output (watts)
1000	410	19.7	10.1	20.3	44	973.7

Input Power Data

Input Voltage (V)	Input Current (A)	Power Factor	Measured input power (W)	Rated input power (W)
120.05	11.83	0.927	1317	1500



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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)

Limit=20lg(25*SQRT(973.7/500))+20lg(300/3)=**70.85dBuV/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: 25.6 °C Humidity: 58.9 % RH Atmospheric Pressure: 995 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.

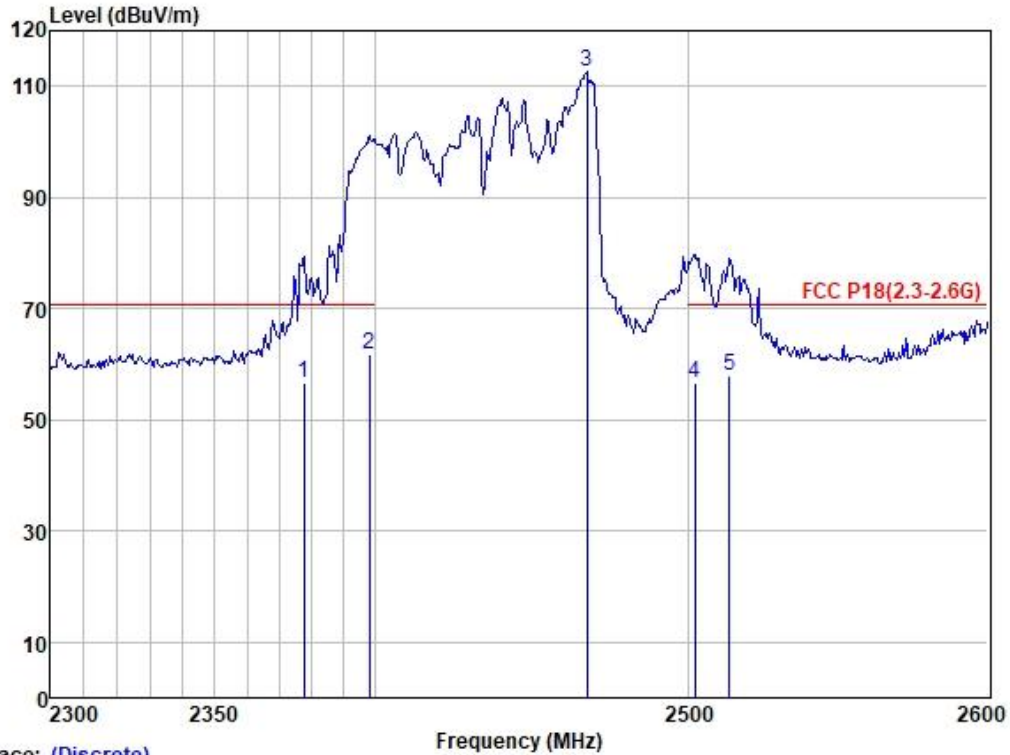


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6.6.3 Measurement Procedure and Data

The variation of frequency with line voltage



Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB		
1	2377.410	25.75	27.31	3.46	0.00	56.52	70.85	-14.33	HORIZONTAL Average
2	2397.901	30.77	27.35	3.50	0.00	61.62	70.85	-9.23	HORIZONTAL Average
3	2467.086	81.56	27.45	3.50	0.00	112.51	-----	-----	HORIZONTAL Peak
4	2502.116	25.76	27.50	3.40	0.00	56.66	70.85	-14.19	HORIZONTAL Average
5	2513.492	27.00	27.52	3.41	0.00	57.93	70.85	-12.92	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%.

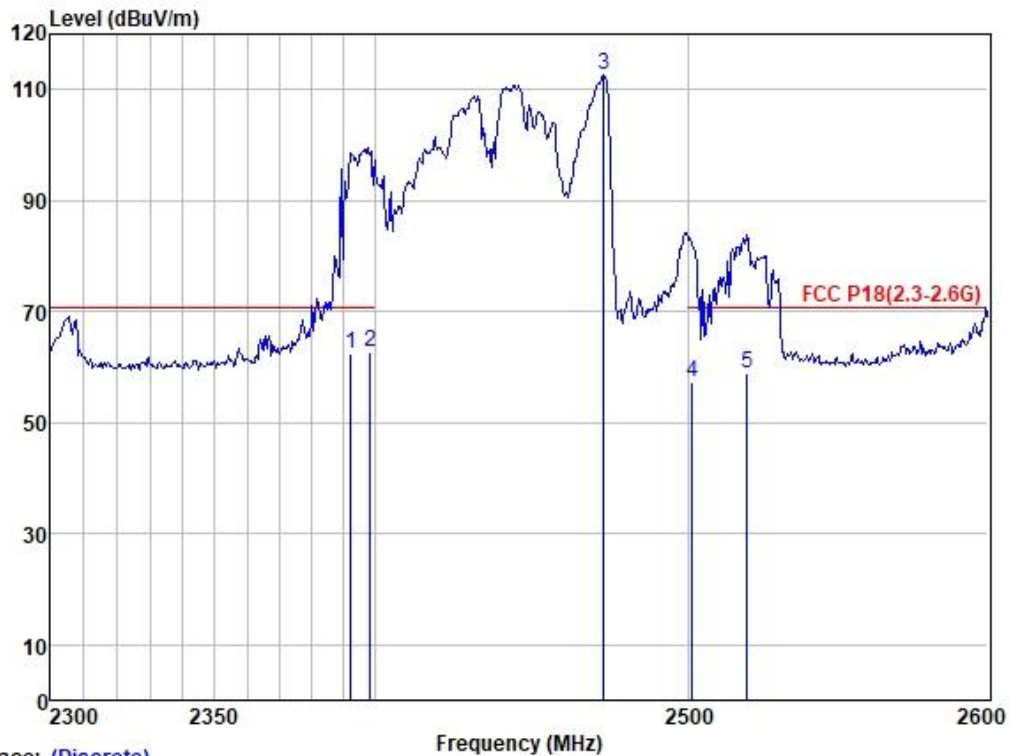
Test record was found the worst situation is when the line voltage is 125% of rated AC voltage.

ISM frequency(MHz)	Tolerance(MHz)	Measurement Data(MHz)
2450	±50	2467



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The variation of frequency with time



Trace: (Discrete)

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2392.029	31.55	27.34	3.49	0.00	62.38	70.85	-8.47	VERTICAL Average
2	2398.210	32.00	27.35	3.50	0.00	62.85	70.85	-8.00	VERTICAL Average
3	2472.536	81.58	27.46	3.55	0.00	112.59	-----	-----	VERTICAL Peak
4	2501.196	26.45	27.50	3.40	0.00	57.35	70.85	-13.50	VERTICAL Average
5	2519.354	27.91	27.52	3.42	0.00	58.85	70.85	-12.00	VERTICAL Average

1) 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	2472



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6.7 Radiation Hazard Test

Test Requirement: 47 CFR Part 18
 Test Method: FCC OST/MP-5:1986
 Test distance: Five centimeters from the oven surface

6.7.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.7 °C Humidity: 52.2 % RH Atmospheric Pressure: 995 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/cm ²)	Limit (mW/cm ²)	Test Result
0.257	1	Pass



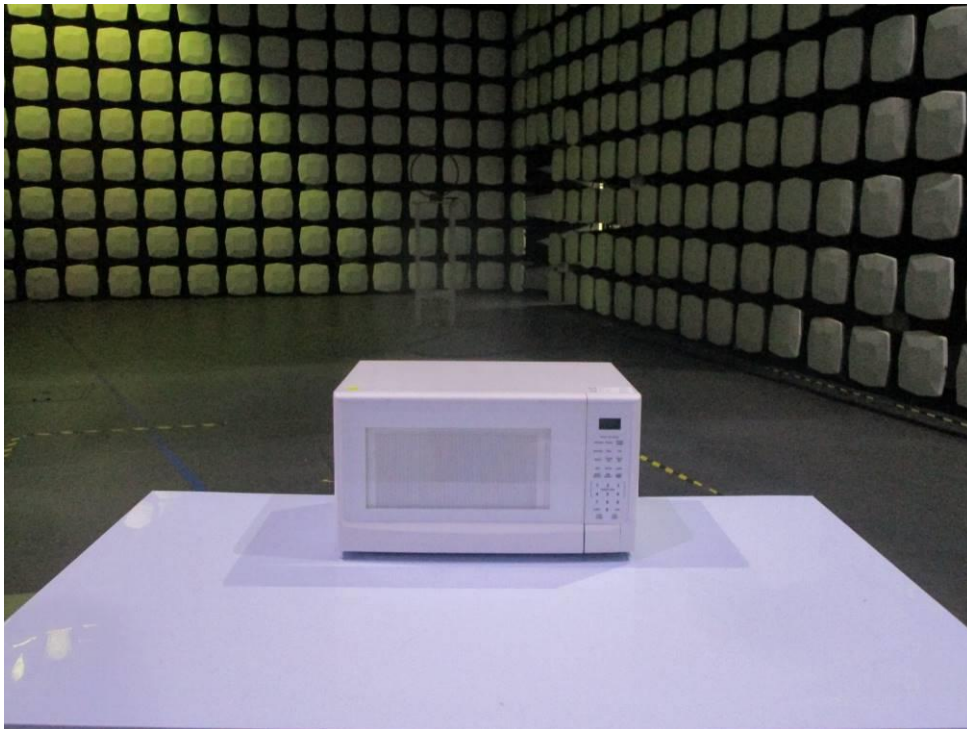
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7 Test Setup Photo

Conducted Emissions at Mains Terminals(150kHz to 30MHz)



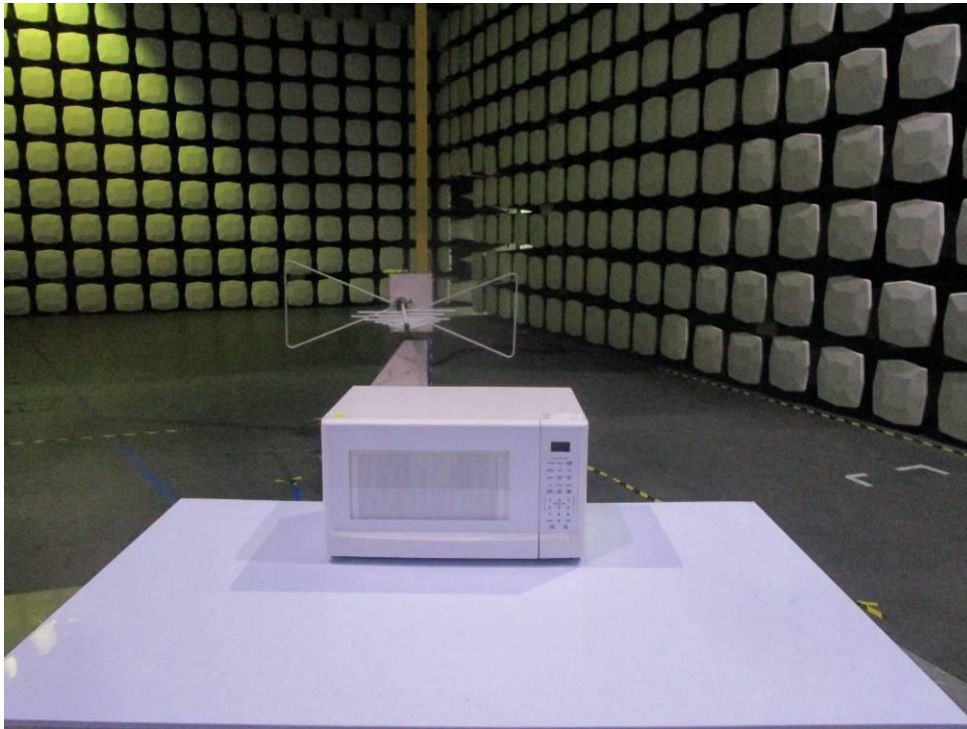
Radiated Emissions (Magnetic field Strength) (9kHz-30MHz)



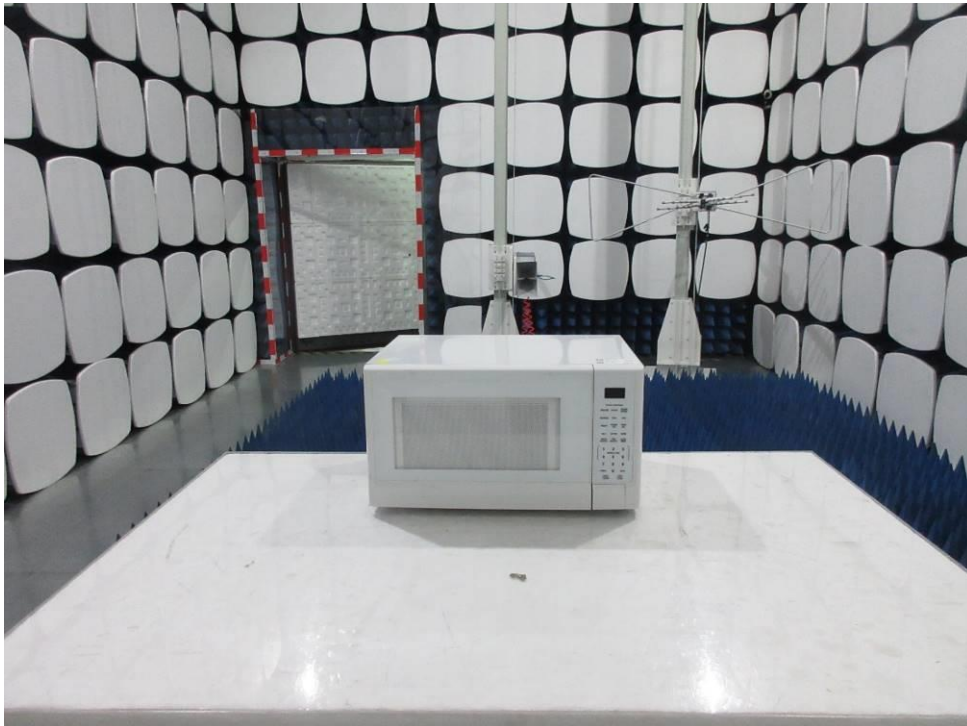
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Radiated Emissions (30MHz-1GHz)



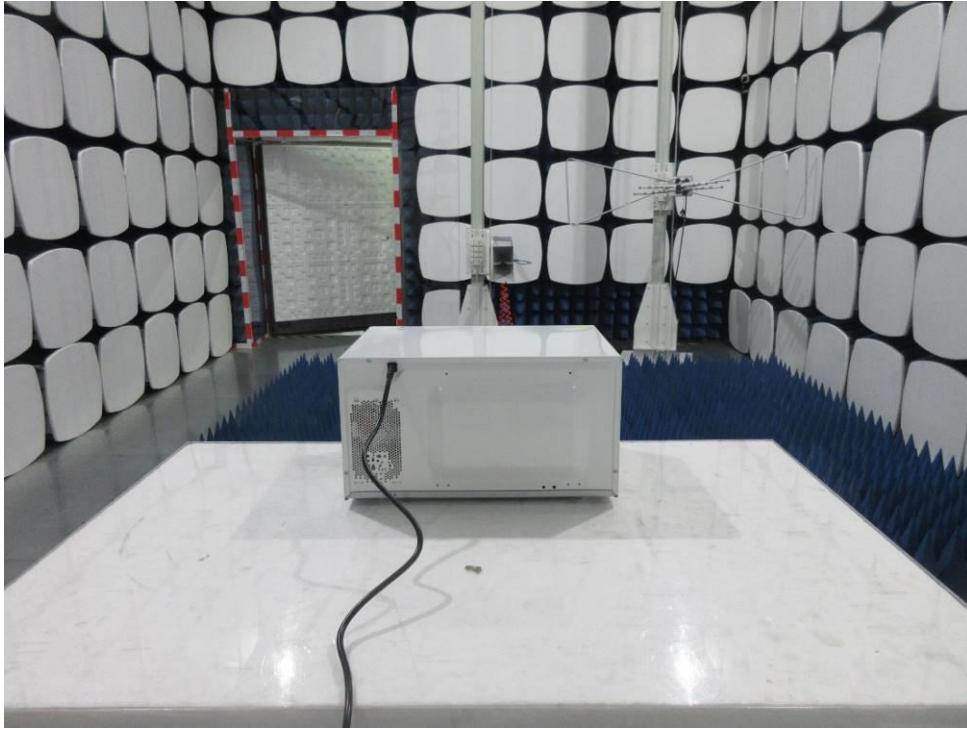
Radiated Emissions (above 1GHz)



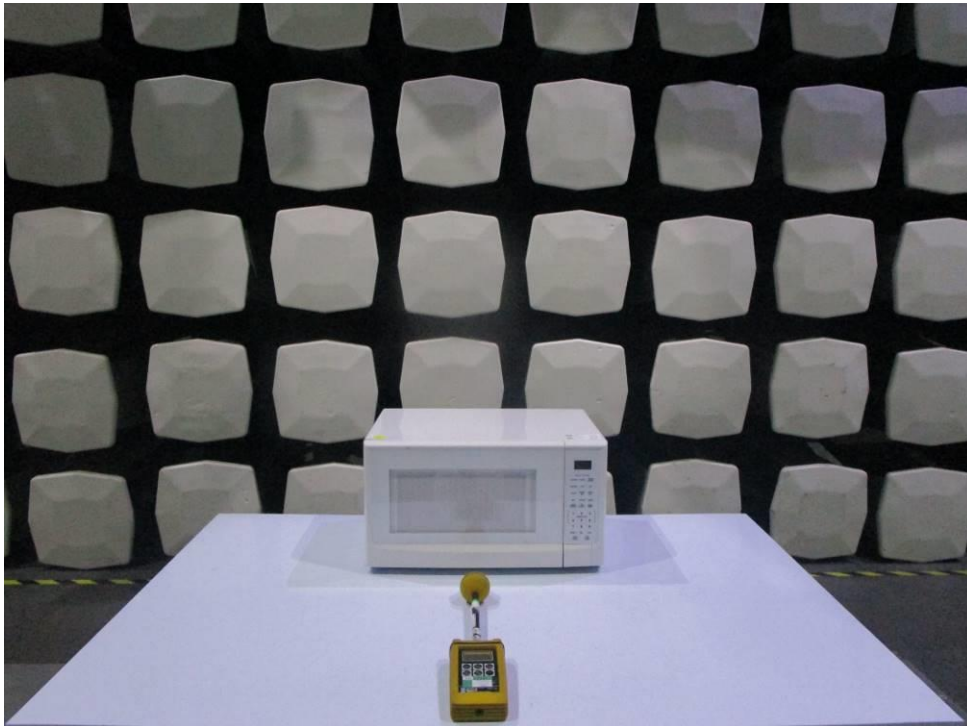
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Operating Frequency Measurement



Radiation Hazard Test



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8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photo for GZEM2108004767HS

- End of the Report -



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