



EMC TEST REPORT

Report No.: SET2019-07383
Product Name: Microwave Oven
Trade Name: Midea
Model No. : EC042A2EC-S
FCC ID : VG8XC042AYY
Applicant: Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.
Received Date: 2019-06-13
Issued by: CCIC Southern Testing Co., Ltd.
Lab Location: Electronic Testing Building, No.43 Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China
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Test Report

Product Name..... Microwave Oven

Model No. EC042A2EC-S

Trade name Midea

Applicant..... Guangdong MideaKitchen Appliances Manufacturing Co.,Ltd.

Applicant Address..... No.6, Yong An Road, Beijiao, Shunde, Foshan, China

Manufacturer Guangdong MideaKitchen Appliances Manufacturing Co.,Ltd.

Manufacturer Address No.6, Yong An Road, Beijiao, Shunde, Foshan, China

Test Standards 47 CFR Part 18 & 47 CFR Part 15, Subpart B

Test Result..... PASS

Tested by *Fang Yun Lei*
Fang Yun Lei Test Engineer 2019.06.24

Reviewed by *Chris You*
Chris You Senior Engineer 2019.06.24

Approved by *Shuangwen Zhang*
Shuangwen Zhang, Manager 2019.06.24

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Change History		
Issue	Date	Reason for change
1.0	2019.06.24	First edition



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

EUT Name	Microwave Oven
Trade Name.....	Midea
Brand Name.....	N/A
Hardware Version.....	N/A
Software Version	N/A
Model	EUT Model Difference are as below: XC042AYY-S,XC042AYYY-S,EC042A5C-BS,EC042A5C-SS,E C042A5C-CHSS,EC042A5C-CHBS,EC042A5C-CHSSC,EC042 A5C-SSC,EC042A5C-CHBSC,EC042A5C-BSC model designations as follow: X=E or A ; C: Indicate Microwave and Grill and Convection; 042: “0” indicate the microwave output power is 1000W, “42” indicate cavity capacity is 42 liters; A: indicate the design No.; YY or YYY: 0-9 or A-Z, indicate different appearance; -S: means stainless steel Cavity Model EC042A5C-BS, EC042A5C-SS,EC042A5C-CHSS, EC042A5C-CHBS,EC042A5C-CHSSC,EC042A5C-SSC,EC042 A5C-CHBSC,EC042A5C-BSC are identical to EC042A2EC-S except for model number. Model EC042A2EC-S was chosen for the final testing.
Power Supply	120V AC/60Hz
Rated input Power(microwave):	1500W
Rated output Power(microwave):	1000W
Frequency	2450MHz(ClassB/Group 2)
Magnetron Model.....	2M319J
Magnetron Manufacturer ...:	WITOL
Description of Support Units:	-Load for power output measurement: 1000 milliliters of water in the beaker located in the center of the oven. -Load for frequency measurement: 1000 milliliters of water in the beaker located in the center of the oven. -Load for measurement of radiation on second and third harmonic: Two loads, one of 700 and the other of 300 milliliters, of water are used. Each load is tested both with the beaker



located in the center of the oven and with it in the right front corner.

-Load for all other measurements: 700 milliliters of water, with the beaker located in the center of the oven.

Note 1: The EUT have the following typical setups during the test:

Setup1: Microwave heating (According to FCC PART 18, ISM RF Generator);

Setup2: Grill mode (According to FCC PART 15B, digital device)

Setup3: preheating convection mode (According to FCC PART 15B, digital device)

Note 2: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



1.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 18&15:

No.	Identity	Document Title
1	47 CFR Part 18:2019	ISM Radio Frequency Devices
2	47 CFR Part 15,Subpart B	FCC Digital Device

Test detailed items/section required by FCC rules and results are as below:

Emission			
Standard	Item	Class / Severity	Result
47 CFR PART 18&47 CFR PART 15B	Conducted Emission	18.307(b)&15.107	PASS
	Radiated Emission	18.305(b)&15.109	PASS



1.3 Facilities and Accreditations

1.3.1 Facilities

CNAS-Lab Code: L1659

CCIC-SET is a third party testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659.

FCC-Registration No.: CN5031

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN5031, valid time is until December 31, 2018.

ISED Registration: 11185A-1

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until Aug. 03, 2019.

NVLAP Lab Code: 201008-0

CCIC-SET is a third party testing organization accredited by NVLAP according to ISO/IEC 17025. The accreditation certificate number is 201008-0

Test Environment Conditions
During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15°C- 35°C
Relative Humidity (%):	25% -75%
Atmospheric Pressure (kPa):	86kPa-106kPa

1.3.2 Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

Uncertainty of Conducted Emission:	Uc = 3.6 dB (k=2)
Uncertainty of Radiated Emission:	Uc = 4.5 dB (k=2)



2. EQUIPMENTS LIST

A. Equipments List:

Description	Manufacturer	Model	Serial No.	Calibration Date	Calibration Due. Date
EMI Test Receiver	ROHDE&SCHWARZ	ESR3	A181103297	2018.09.14	2019.09.13
LISN	ROHDE&SCHWARZ	ENV216	A140701847	2018.12.10	2019.12.10
Shield Room	/	L7300*W4500* H3100	A181003226	2018.09.06	2021.09.05
EMI Test Receiver	ROHDE&SCHWARZ	ESIB7	A0501375	2018.08.06	2019.08.05
Broadband Ant.	2786	ETC	A150402239	2018.09.17	2021.09.16
3M Anechoic Chamber	Albatross	SAC-3MAC 9*6*6m	A0412375	2016.03.08	2020.03.07
EMI Test Receiver	ROHDE&SCHWARZ	ESIB26	A180502935	2018.11.01	2019.10.31
System Simulator	ROHDE&SCHWARZ	CMW500	A150802214	2017.08.29	2019.08.28
5M Anechoic Chamber	Albatross	SAC-5MAC 12.8x6.8x6.4m	A0304210	2016.03.08	2020.03.07
EMI Horn Ant.	ROHDE&SCHWARZ	HF906	A0304225	2019.04.17	2022.04.17
Spectrum Analyzer	KEYSIGHT	E7515A	A160702555	2019.04.01	2021.04.01

3. EMC EMISSION TEST

3.1 Test Procedure

Test Requirement: 47 CFR PART 18

Test Method: FCC/OST MP-5:1986

Power Supply: AC 120V/ 60Hz

Frequency Range: 2400-2500MHz

Detector: Peak

Limit: ISM equipment may be operated at any frequency above 9KHz and the frequency band 2400-2500MHz is allocated for use by ISM equipment

ISM frequency	Tolerance
6.78 MHz	±15.0 kHz
13.56 MHz	±7.0 kHz
27.12 MHz	±163.0 kHz
40.68 MHz	±20.0 kHz
915 MHz	±13.0 MHz
2,450 MHz	±50.0 MHz
5,800 MHz	±75.0 MHz
24,125 MHz	±125.0 MHz
61.25 GHz	±250.0 MHz
122.50 GHz	±500.0 MHz
245.00 GHz	±1.0 GHz

3.1.1 Frequency For Normal Voltage

The operating frequency was measured using a spectrum analyzer. Starting with the EUT at room temperature, a 1000mL water load was placed in the center of the oven and the oven was operated at maximum output power. The fundamental operating frequency was monitored until the water load was reduced to 20 percent of the original load.

3.1.2 Frequency For Line Voltage

The EUT was operated / warmed by at least 10 minutes of use with a 1000mL water load at room temperature at the beginning of the test. Then the operating frequency was monitored as the input voltage was varied between 80 and 125 percent of the nominal rating.

3.1.3 Measurement data

Operating Mode	Frequency(MHz)
Normal Voltage	2456.2-2467.8
Line Voltage	2454.5-2467.6

3.2 RADIATION HAZARD TEST

3.2.1 Test Setup

The EUT was set-up according to the FCC MP-5 and FCC Part 18 for radiation Hazard measurement. The measurement was using a microwave leakage meter to measure the radiation leakage in the as-received condition with the oven door closed A 700mL water load in a breaker was located in the center of the oven and the microwave oven was set to maximum power. While the oven operating, the microwavemeter will check the leakage and then record the maximum leakage.

3.2.2 Limit

A maximum of $1.0\text{mW}/\text{cm}^2$ is allowed in according with the applicable FCC standards

3.2.3 Test results

There was no microwave leakage exceeding a power level of $0.17\text{ mW}/\text{cm}^2$ Observed at any point 5cm or more from the external surface of the oven



3.3 RF OUTPUT POWER MEASUREMENT

3.3.1 Test Standard

Test Requirement	47 CFR PART 18
Test Method	FCC/OST MP-5:1986
Power Supply	AC120/60Hz

3.3.2 EUT Operating mode

Test the EUT in microwave mode with full power.

3.3.3 Test Data

Mass of Water(g)	Mass of the container(g)	ambient temperature (°C)	Initial temperature(°C)	Final temperature(°C)	Heating Time(S)	Output Power(Watt)
1000	280	20.0	11	27	120	609.7

Formula:

$$P = \frac{4.2 \times m_w (T_2 - T_1) + 0.9 \times m_c (T_2 - T_0)}{t}$$

P is the microwave power output, in watts

M_w is the mass of the water, in grams

M_c is the mass of the container, in grams

T₀ is the ambient temperature, in degrees Celsius

T₁ is Initial temperature of the water, in degrees Celsius

T₂ is final temperature of the water, in degrees Celsius

T is heating time, in seconds, excluding the magnetron filament heating-up time

4. CONDUCTED EMISSION

4.1.1 Conducted Emission Limit

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

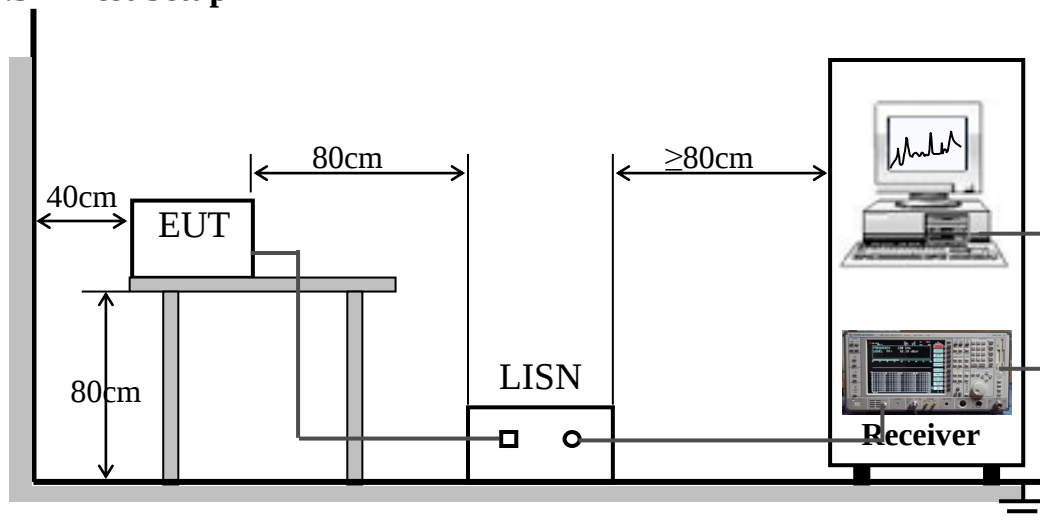
Note:

- The limit decreases linearly with the logarithm of the frequency in the range 0.05 MHz to 0.5 MHz.
- The lower limit is applicable at the transition frequency.

4.1.2 Test Procedure

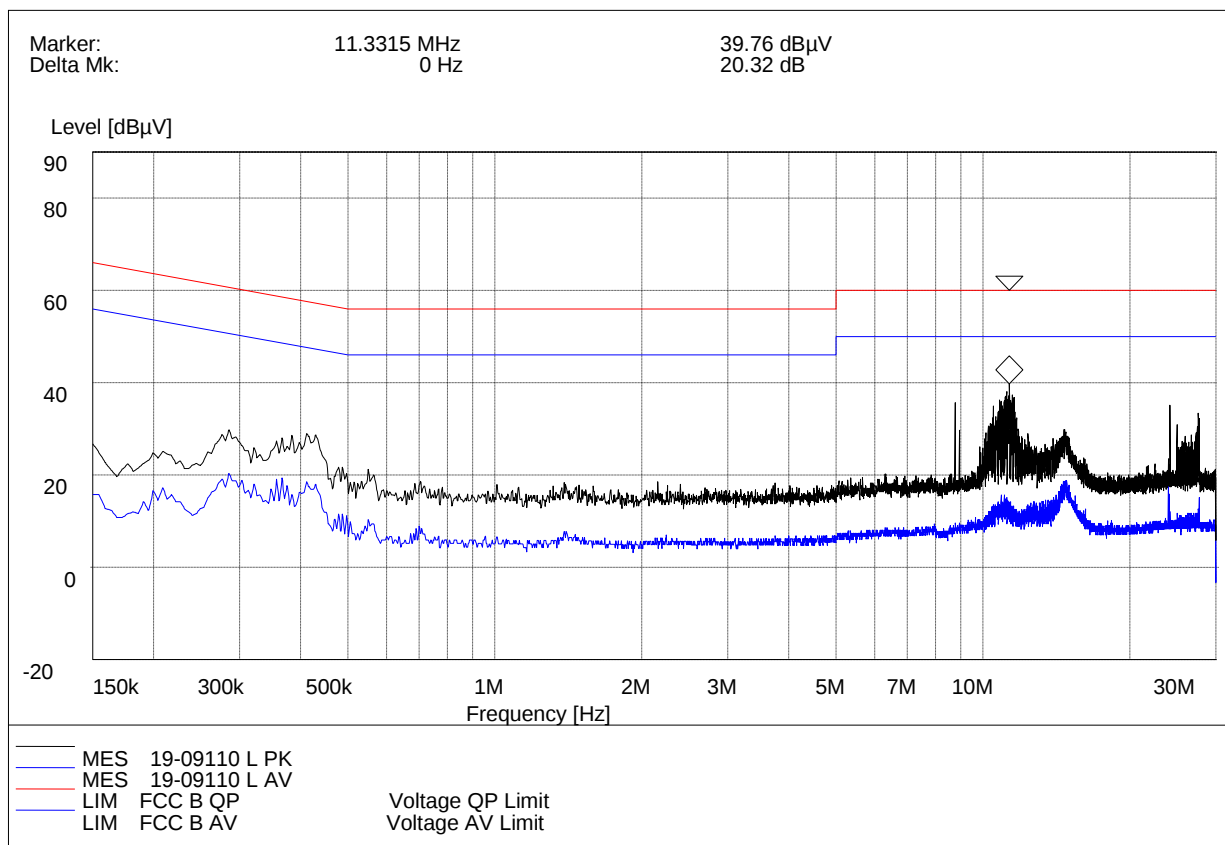
The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides 50 Ω /50 μ H of coupling impedance for the measuring instrument. The Common Antenna is used for the call between the EUT and the System Simulator (SS). A Pulse Limiter is used to protect the measuring instrument. The factors of the whole test system are calibrated to correct the reading.

4.1.3 Test Setup



A. Test Result:

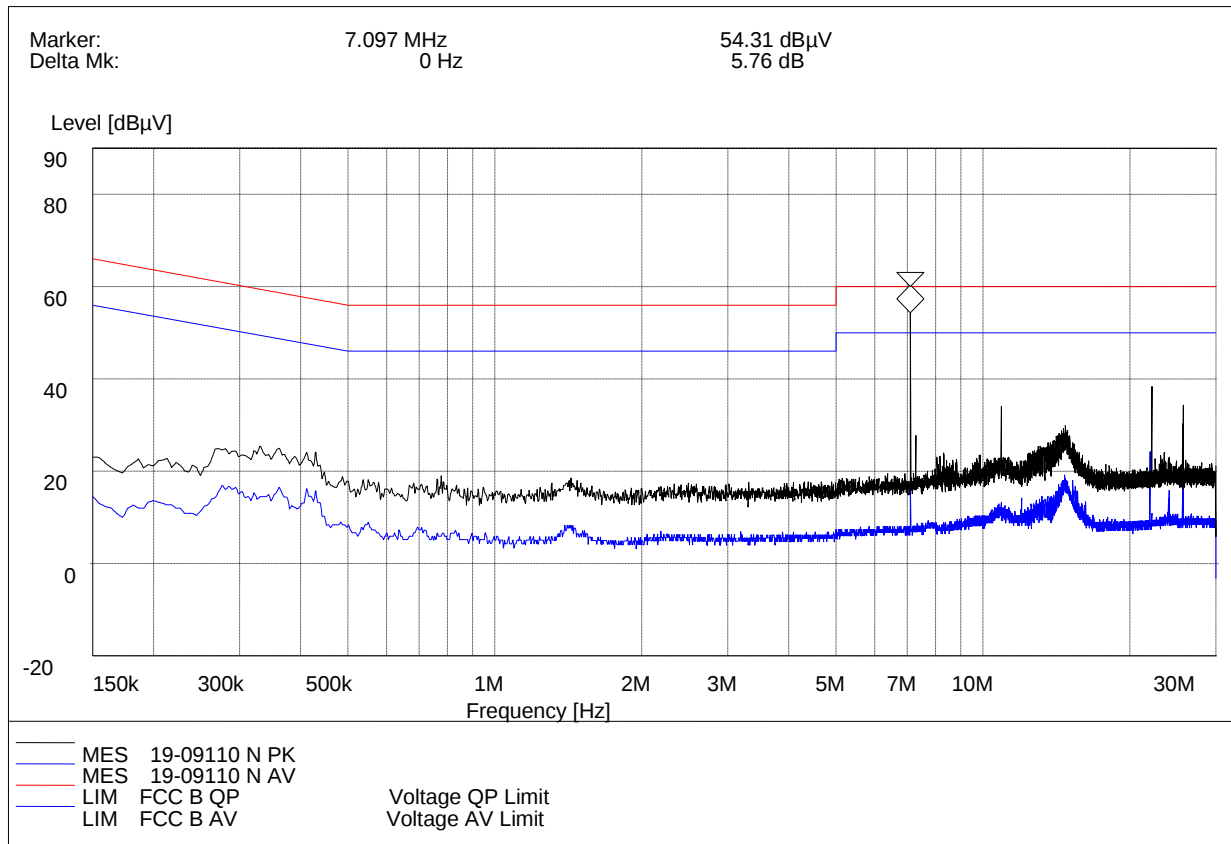
Mains terminal disturbance voltage, Setup1,L phase



(Plot A: L Phase)

Conducted Disturbance at Mains Terminals							
L Test Data							
QP				AV			
Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Margin (dB)	Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Margin (dB)
0.1500	66.00	21.06	44.94	0.1500	56.00	18.32	37.68
0.4110	57.60	26.53	31.07	0.4110	47.60	19.15	28.45
11.3315	60.00	34.26	25.74	11.3315	50.00	16.34	33.66
14.6165	60.00	22.85	37.15	14.6165	50.00	19.34	30.66
24.1565	60.00	31.87	28.13	24.1565	50.00	18.36	31.64
27.5945	60.00	26.54	33.46	27.5945	50.00	12.21	37.79

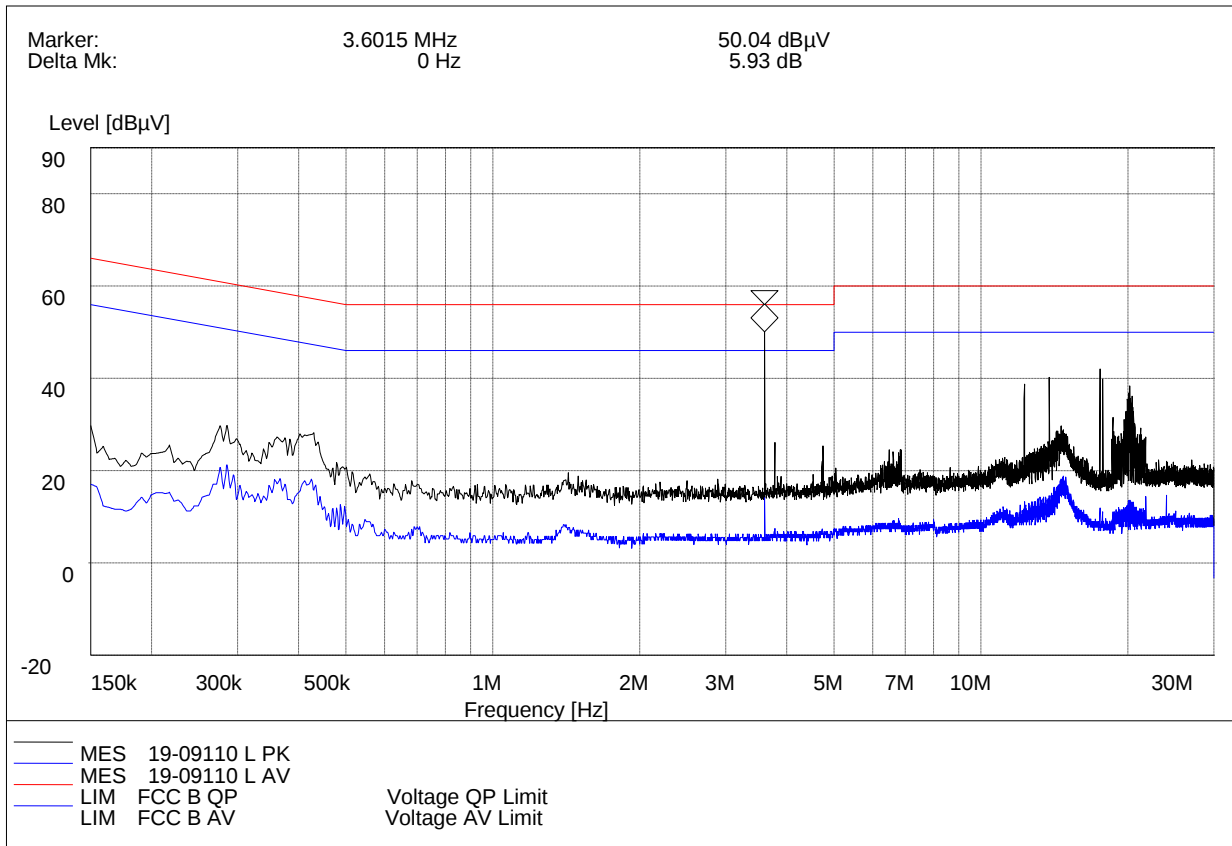
Mains terminal disturbance voltage, Setup 1, N phase



(Plot B: N Phase)

Conducted Disturbance at Mains Terminals							
N Test Data							
QP				AV			
Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Margin (dB)	Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Margin (dB)
0.1500	66.00	20.97	45.03	0.1500	56.00	17.32	38.68
0.4110	57.60	21.59	36.01	0.4110	47.60	17.48	30.12
7.097	60.00	32.56	27.44	7.097	50.00	17.59	32.41
14.7785	60.00	22.37	37.63	14.7785	50.00	17.87	32.13
22.0955	60.00	27.54	32.46	22.0955	50.00	17.24	32.76
25.8845	60.00	26.89	33.11	25.8845	50.00	18.43	31.57

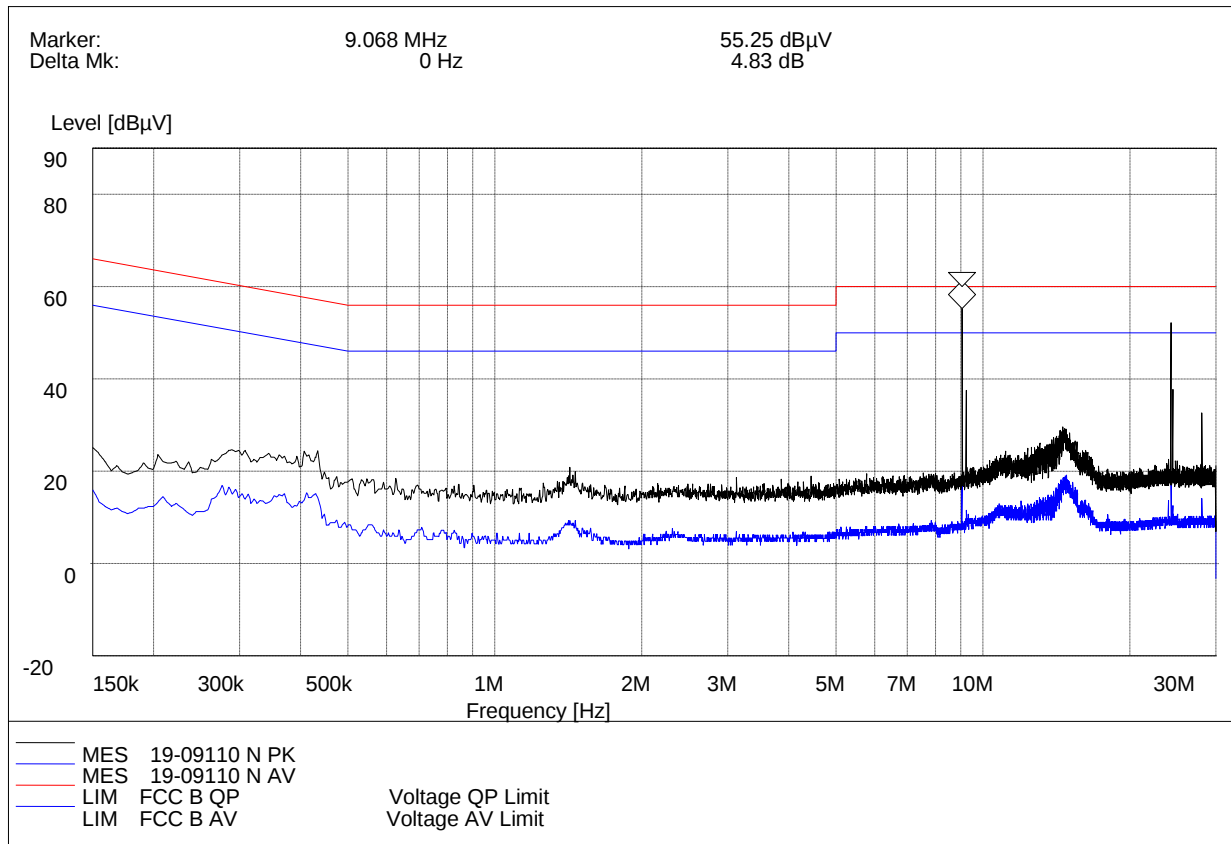
Mains terminal disturbance voltage, Setup2,L phase



(Plot A: L Phase)

Conducted Disturbance at Mains Terminals							
L Test Data							
QP				AV			
Frequency (MHz)	Limits (dB μ V)	Measurement Value (dB μ V)	Margin (dB)	Frequency (MHz)	Limits (dB μ V)	Measurement Value (dB μ V)	Margin (dB)
0.1500	66.00	27.26	38.74	0.1500	56.00	18.03	37.97
0.2850	60.70	27.65	33.05	0.2850	50.70	21.38	29.32
0.4245	57.40	26.32	31.08	0.4245	47.40	17.95	29.45
3.6015	56.00	23.65	32.35	3.6015	46.00	17.98	28.02
14.4050	60.00	23.87	36.13	14.4050	50.00	18.9	31.10
20.1470	60.00	26.75	33.25	20.1470	50.00	15.06	34.94

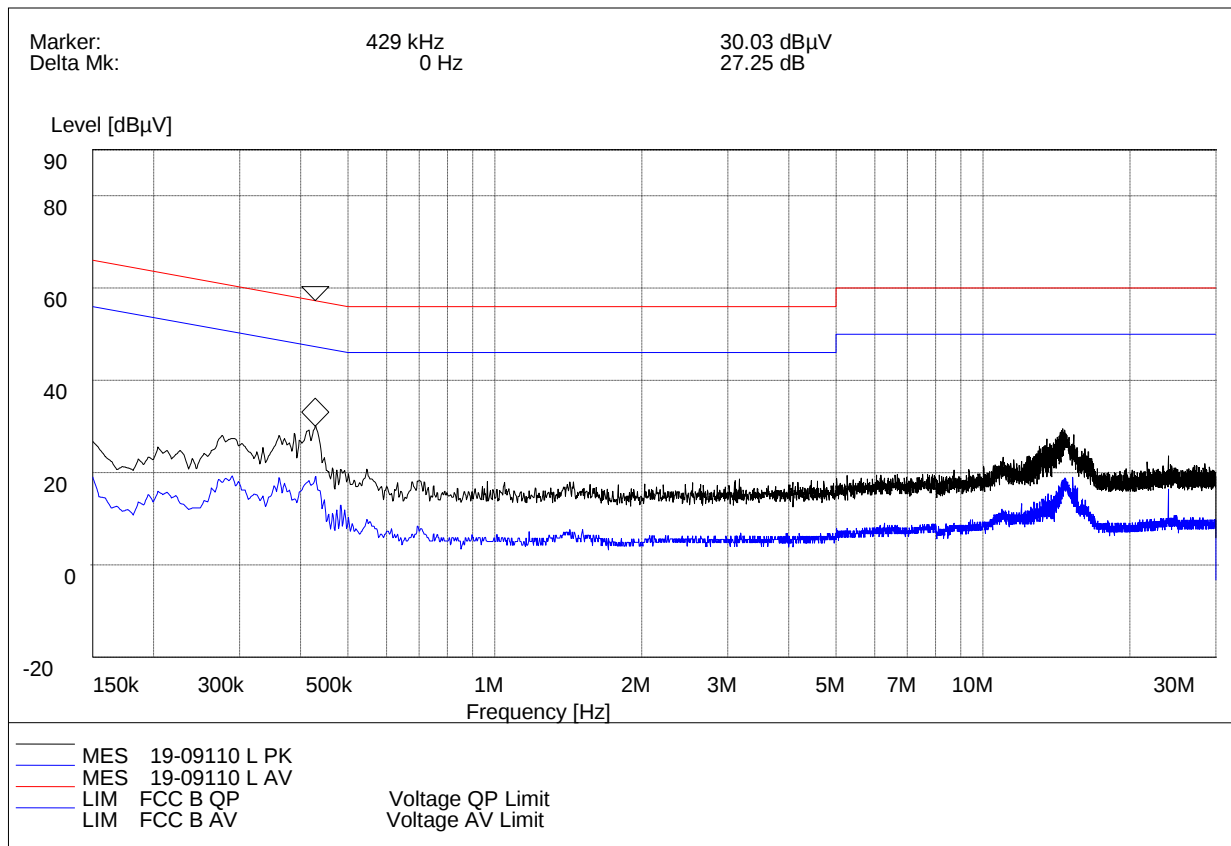
Mains terminal disturbance voltage, Setup 2, N phase



(Plot B: N Phase)

Conducted Disturbance at Mains Terminals							
N Test Data							
QP				AV			
Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Margin (dB)	Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Margin (dB)
0.1500	66.00	24.16	41.84	0.1500	56.00	17.23	38.77
0.4335	57.20	23.65	33.55	0.4335	47.20	16.54	30.66
1.4235	56.00	18.96	37.04	1.4235	46.00	12.3	33.70
9.0680	60.00	23.15	36.85	9.0680	50.00	19.82	30.18
14.5085	60.00	23.63	36.37	14.5085	50.00	19.32	30.68
24.2600	60.00	23.35	36.65	24.2600	50.00	17.54	32.46

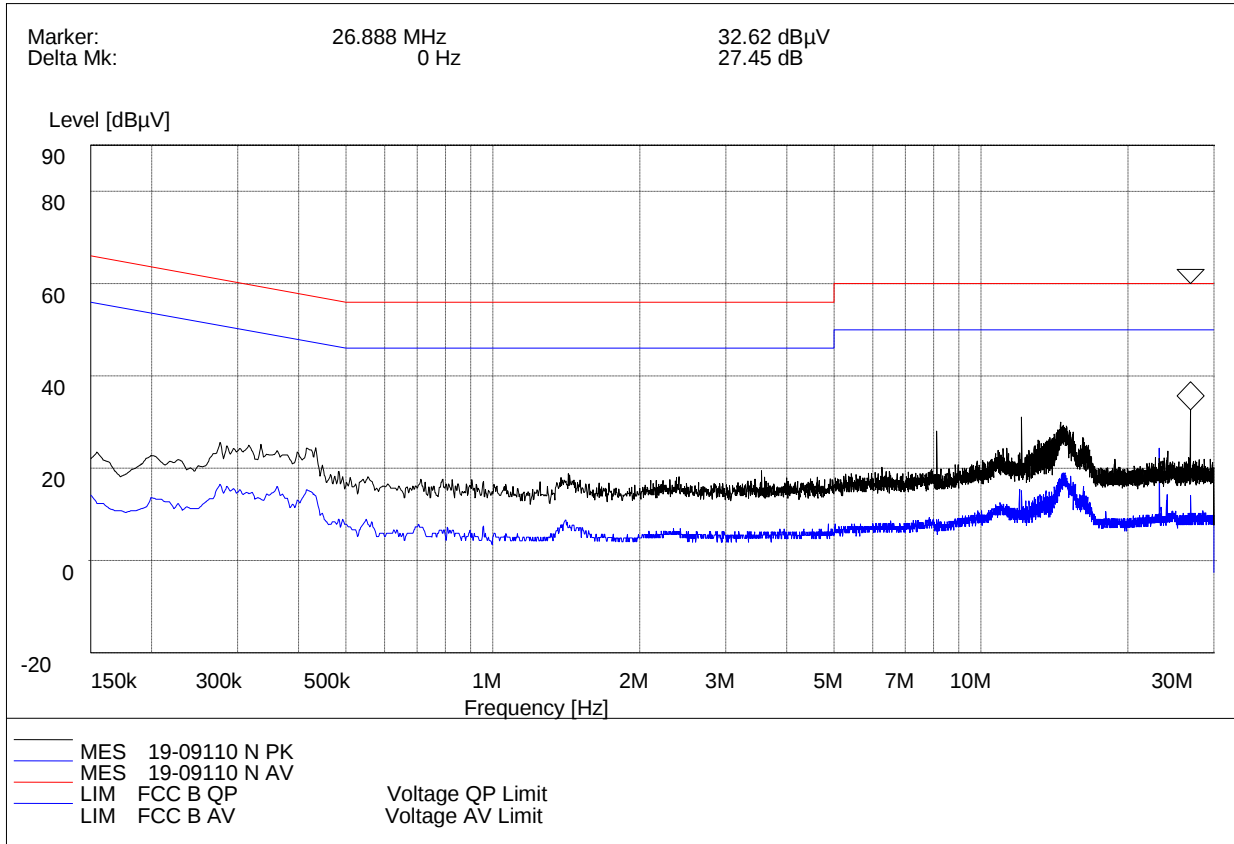
Mains terminal disturbance voltage, Setup3,L phase



(Plot A: L Phase)

Conducted Disturbance at Mains Terminals							
L Test Data							
QP				AV			
Frequency (MHz)	Limits (dB μ V)	Measurement Value (dB μ V)	Margin (dB)	Frequency (MHz)	Limits (dB μ V)	Measurement Value (dB μ V)	Margin (dB)
0.1500	66.00	23.51	42.49	0.1500	56.00	19.02	36.98
0.4290	57.30	27.63	29.67	0.4290	47.30	19.52	27.78
0.5460	56.00	17.85	38.15	0.5460	46.00	13.24	32.76
11.0030	60.00	17.38	42.62	11.0030	50.00	15.60	34.40
14.5715	60.00	26.38	33.62	14.5715	50.00	19.73	30.27
24.0080	60.00	21.72	38.28	24.0080	50.00	13.08	36.92

Mains terminal disturbance voltage, Setup 3, N phase



(Plot B: N Phase)

Conducted Disturbance at Mains Terminals							
N Test Data							
QP				AV			
Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Margin (dB)	Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Margin (dB)
0.1500	66.00	22.12	43.88	0.1500	56.00	16.53	39.47
0.4335	57.20	22.50	34.70	0.4335	47.20	16.32	30.88
1.4280	56.00	16.82	39.18	1.4280	46.00	13.42	32.58
12.0920	60.00	28.78	31.22	12.0920	50.00	16.34	33.66
14.5625	60.00	23.46	36.54	14.5625	50.00	19.23	30.77
26.8880	60.00	26.02	33.98	26.8880	50.00	16.39	33.61

Test Result: PASS

5. RADIATED EMISSION

5.1.1 Radiated Emission Limits

- (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:

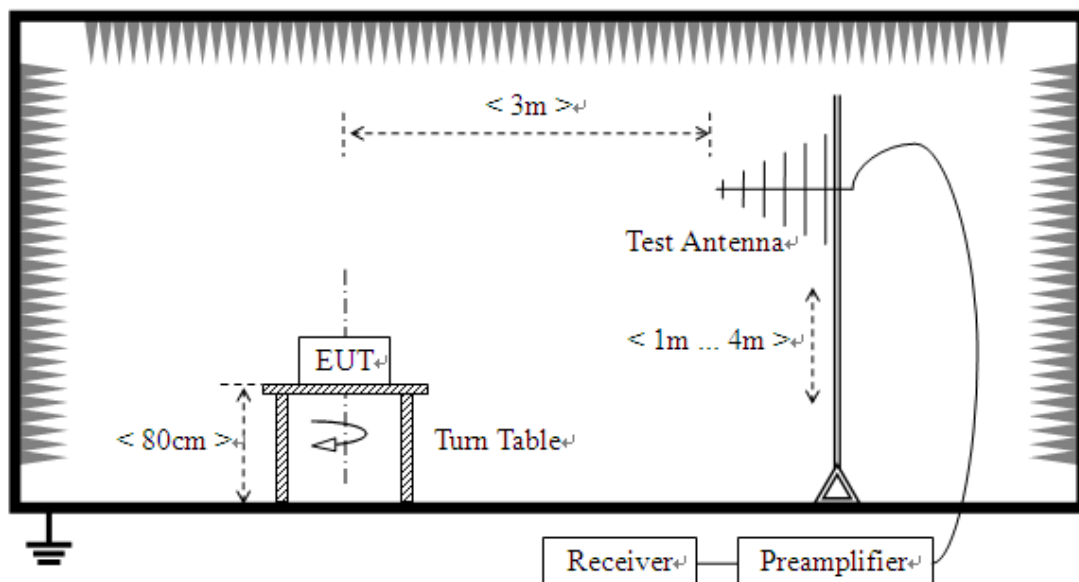
RF Power generated by equipment(watts)	Field strength limit(uV/m) @300m
Below 500	25
500or more	$25 \cdot \sqrt{\text{power}/500}$

Power =609.7W

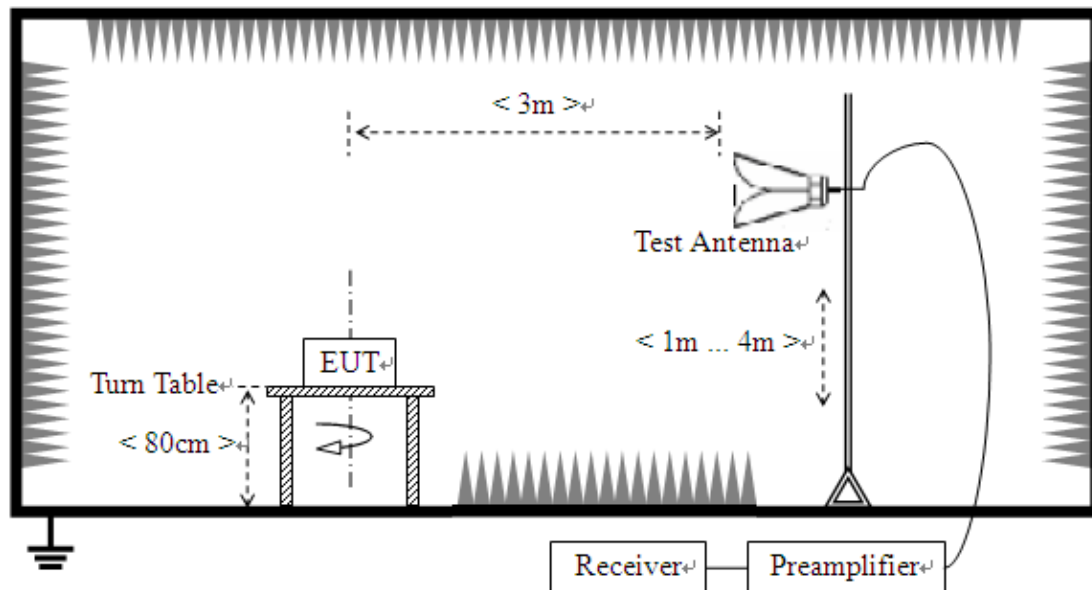
Limit= $20\lg(25 \cdot \sqrt{\text{power}/500}) + 20\lg(300/3)$ @ 3m distance.

5.1.2 Test Setup

For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



5.1.3 Test Procedure

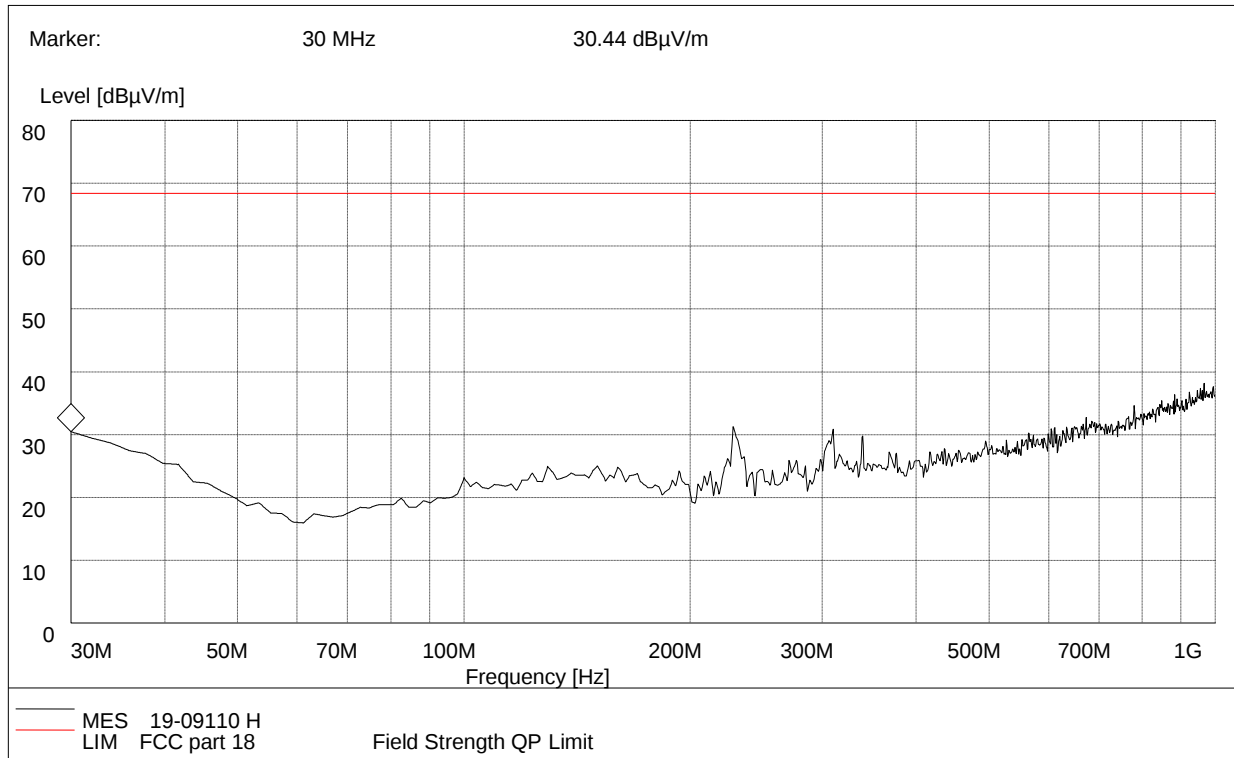
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note: 1. Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

2. For digital device radiated emission test please refer to 47 CFR Part 15B standard and ANSI C 63.4-2014 for method of measurement.

Test Result:

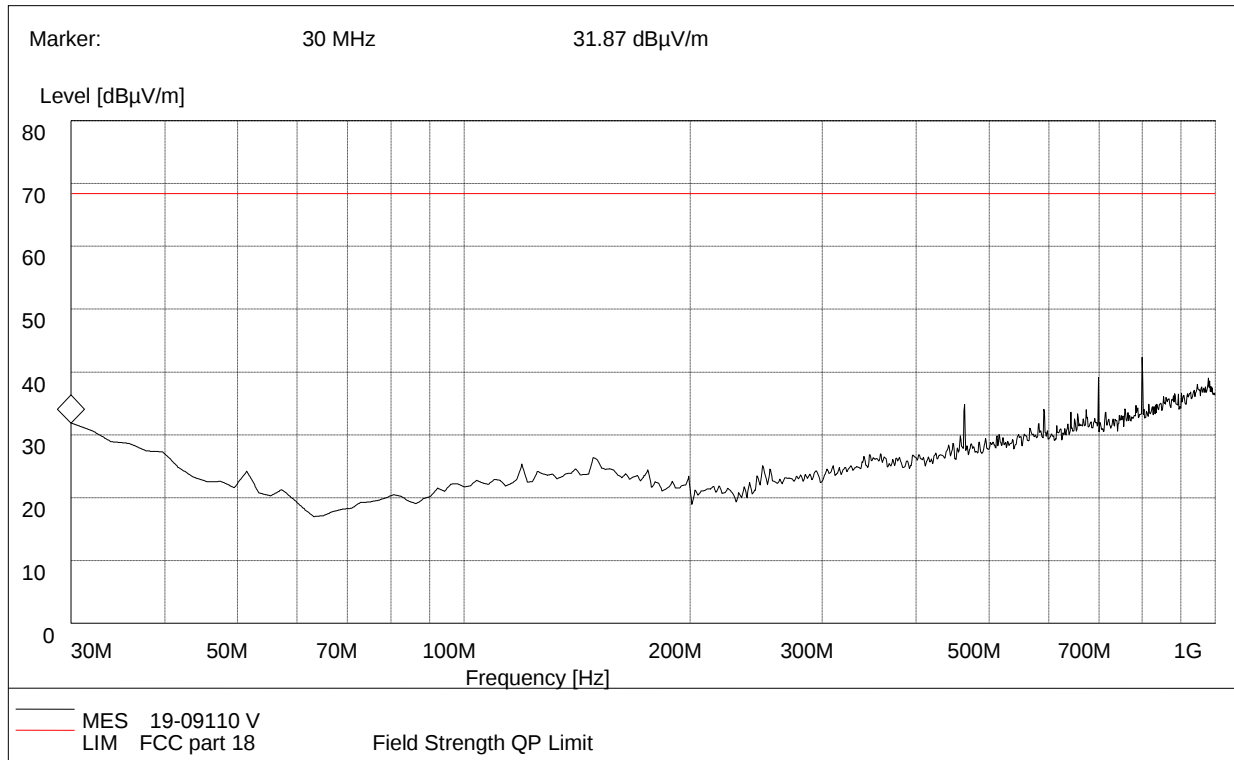
Radiation disturbances, antenna polarization: Setup1, Horizontal



(Plot C: Test Antenna Vertical 30M - 1G)

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Margin (dB)	Antenna	Verdict
30.08	30.44	120.000	112.0	68.37	37.93	Horizontal	Pass

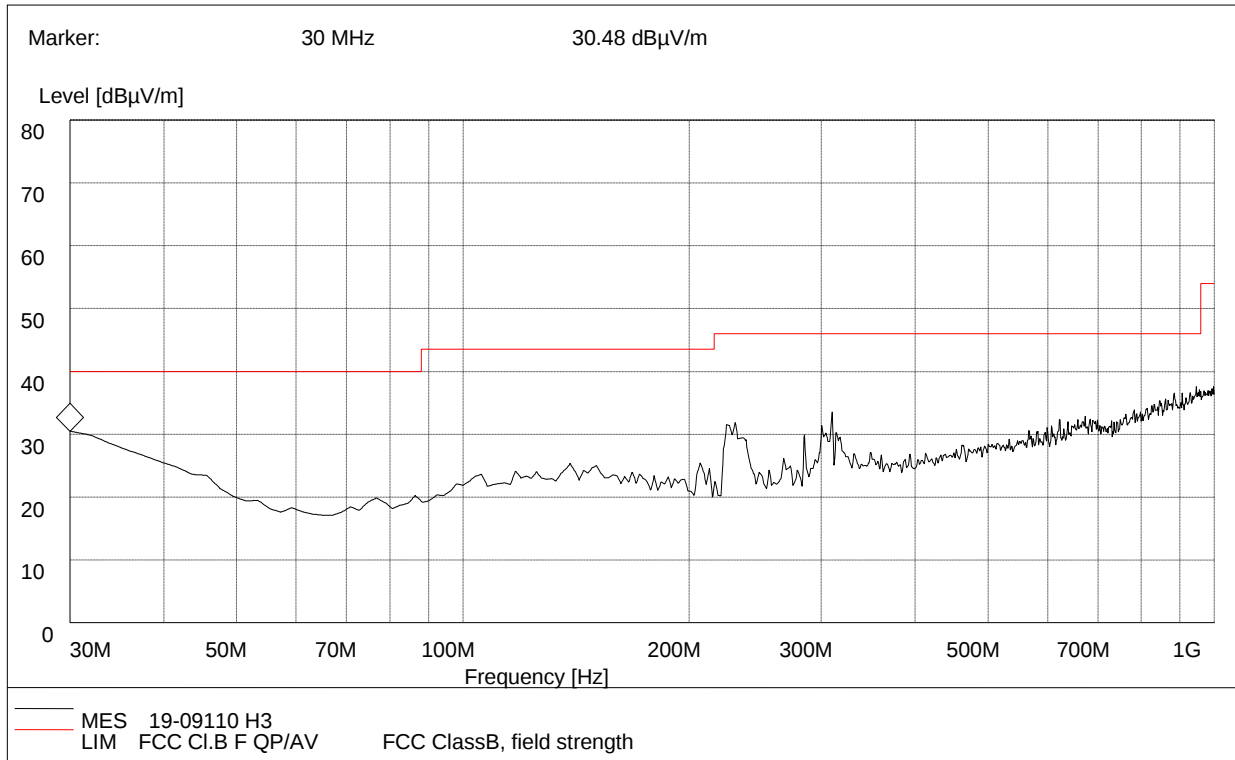
Radiation disturbances, antenna polarization:Setup1,Vertical



(Plot D: Test Antenna Horizontal30M - 1G)

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Margin (dB)	Antenna	Horizontal
30.06	31.87	120.000	123.0	68.37	36.50	Vertical	Pass

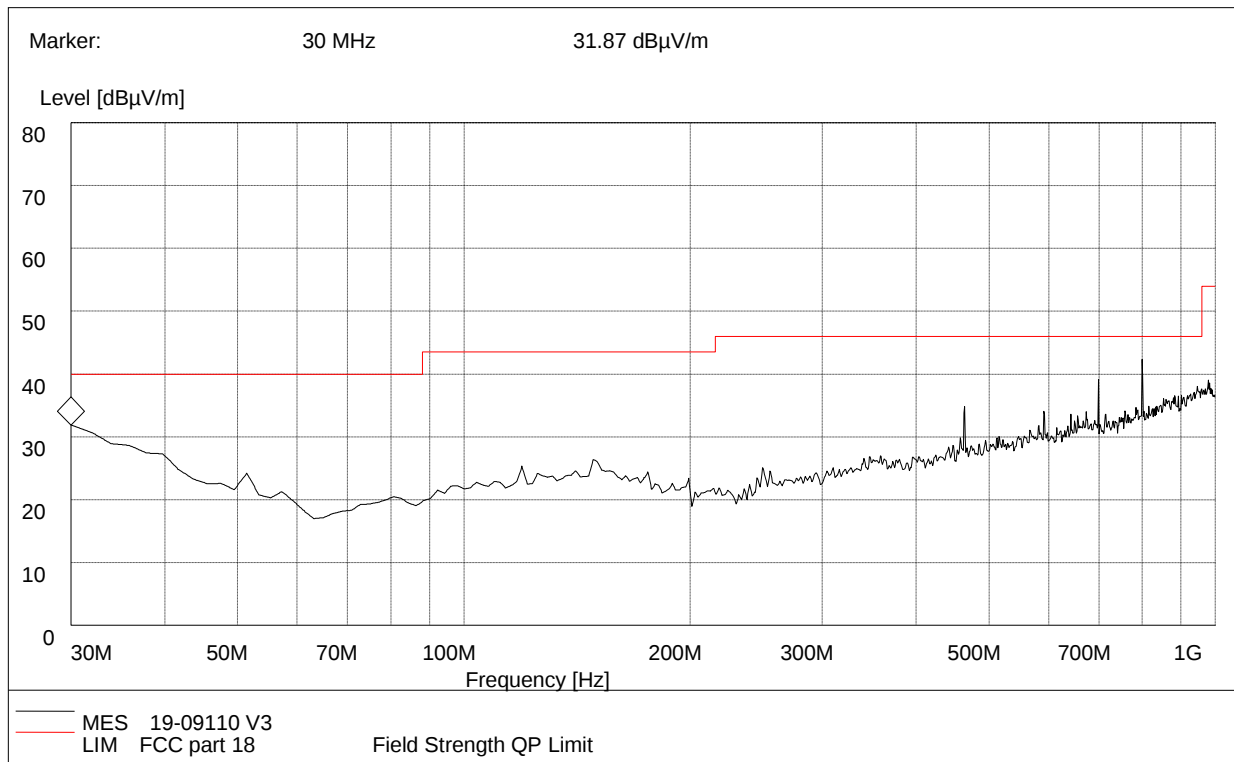
Radiation disturbances, antenna polarization:Setup2,Horizontal



(Plot C: Test Antenna Horizontal30M - 1G)

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Margin (dB)	Antenna	Verdict
30.26	30.48	120.000	112.0	40.00	9.52	Horizontal	Pass

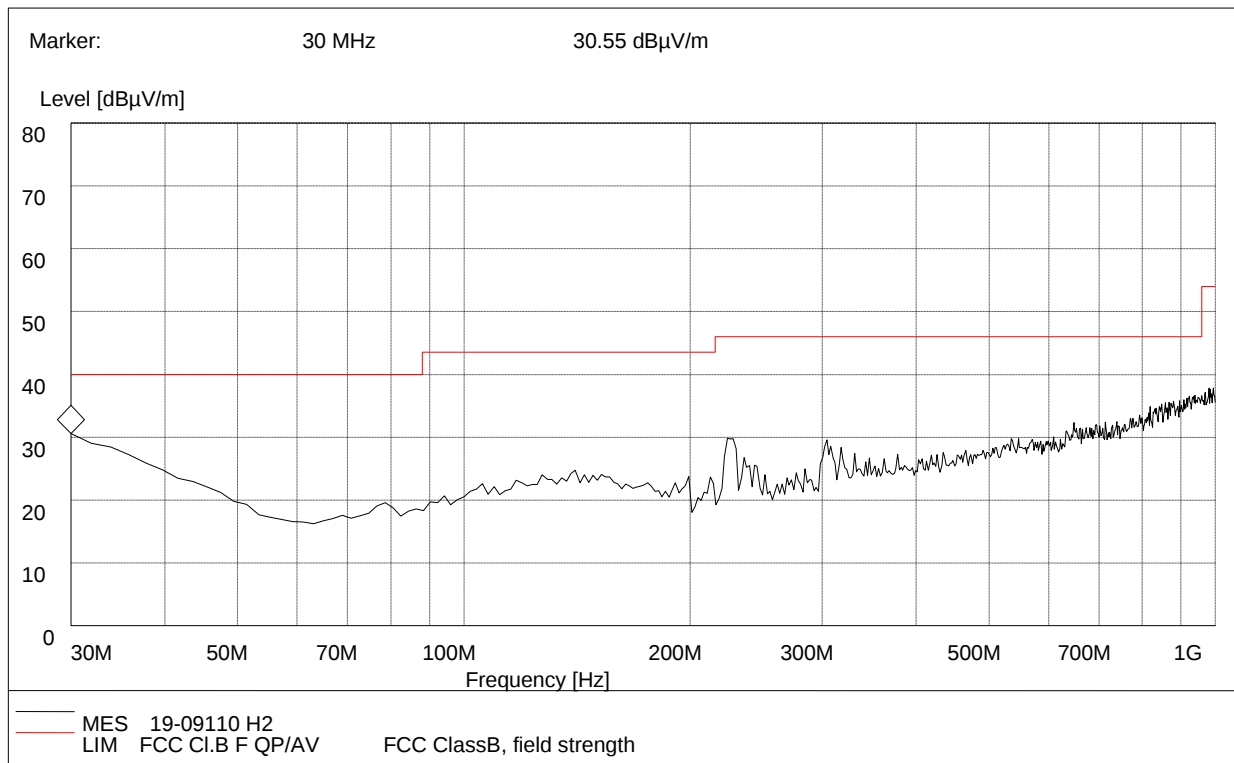
Radiation disturbances, antenna polarization:Setup2,Vertical



(Plot D: Test Antenna Vertical30M - 1G)

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Margin (dB)	Antenna	Horizontal
802.33	36.74	120.000	123.0	46.00	9.26	Vertical	Pass

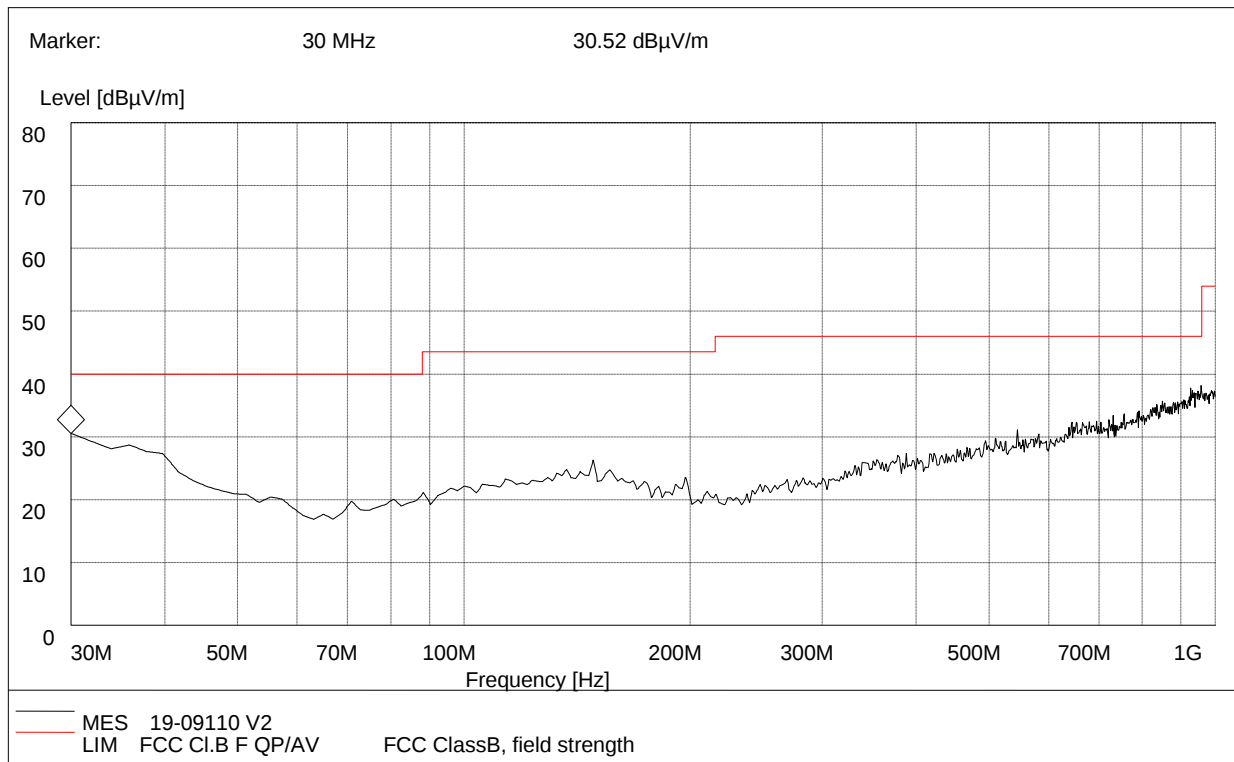
Radiation disturbances, antenna polarization:Setup3,Horizontal



(Plot C: Test Antenna Horizontal30M - 1G)

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Margin (dB)	Antenna	Verdict
305.22	29.02	120.000	112.0	43.50	14.48	Horizontal	Pass

Radiation disturbances, antenna polarization:Setup3,Vertical



(Plot D: Test Antenna Vertical30M - 1G)

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Margin (dB)	Antenna	Horizontal
31.62	29.01	120.000	123.0	40.00	10.99	Vertical	Pass

Above 1GHz Setup1

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1225.30	53.17	-18.58	68.37	15.20	100	43	Horizontal
2	1760.94	44.38	-15.24	68.37	23.99	100	247	Horizontal
3	2449.61	63.23	-11.46	68.37	5.14	100	350	Horizontal
4	4910.97	56.88	-2.08	68.37	11.49	100	319	Horizontal
5	8915.47	57.89	5.71	68.37	10.48	100	343	Horizontal
6	12193.0	61.45	9.01	68.37	6.92	100	145	Horizontal

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1229.55	51.87	-18.56	68.37	16.50	100	296	Vertical
2	1756.68	58.24	-15.25	68.37	10.13	100	359	Vertical
3	2466.61	66.44	-11.30	68.37	1.93	100	18	Vertical
4	3491.12	59.72	-7.31	68.37	8.65	100	360	Vertical
5	7453.11	62.46	2.84	68.37	5.91	100	39	Vertical
6	12422.6	66.19	9.62	68.37	2.18	100	303	Vertical

Above 1GHz Setup2,3(See Remark 3)

NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	--	--	--	--	100	271	Vertical
2	--	--	--	--	100	356	Vertical
3	--	--	--	--	100	326	Vertical
4	--	--	--	--	100	306	Vertical
5	--	--	--	--	100	198	Vertical
6	--	--	--	--	100	37	Vertical

NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	--	--	--	--	100	349	Horizontal
2	--	--	--	--	100	18	Horizontal
3	--	--	--	--	100	333	Horizontal
4	--	--	--	--	100	277	Horizontal
5	--	--	--	--	100	61	Horizontal
6	--	--	--	--	100	328	Horizontal



REMARKS:

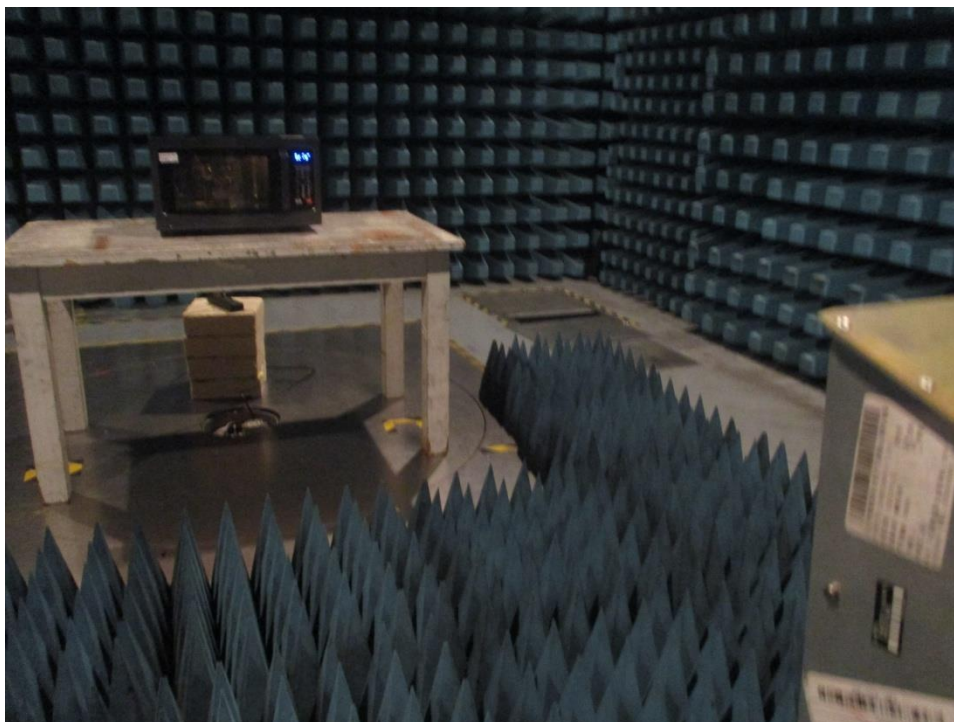
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
- Pre-Amplifier Factor(dB)
3. For Set up 2,3 mode, The EUT's the highest internal frequency is less than 108MHz,so test frequency range is up to 1000MHz.Other frequency reading was too low against the official limit that not recorded.

APPENDIX I: PHOTOGRAPHS OF EMC TEST CONFIGURATION

1. Radiated Emission Measurement below 1GHz



2. Radiated Emission Measurement above 1GHz



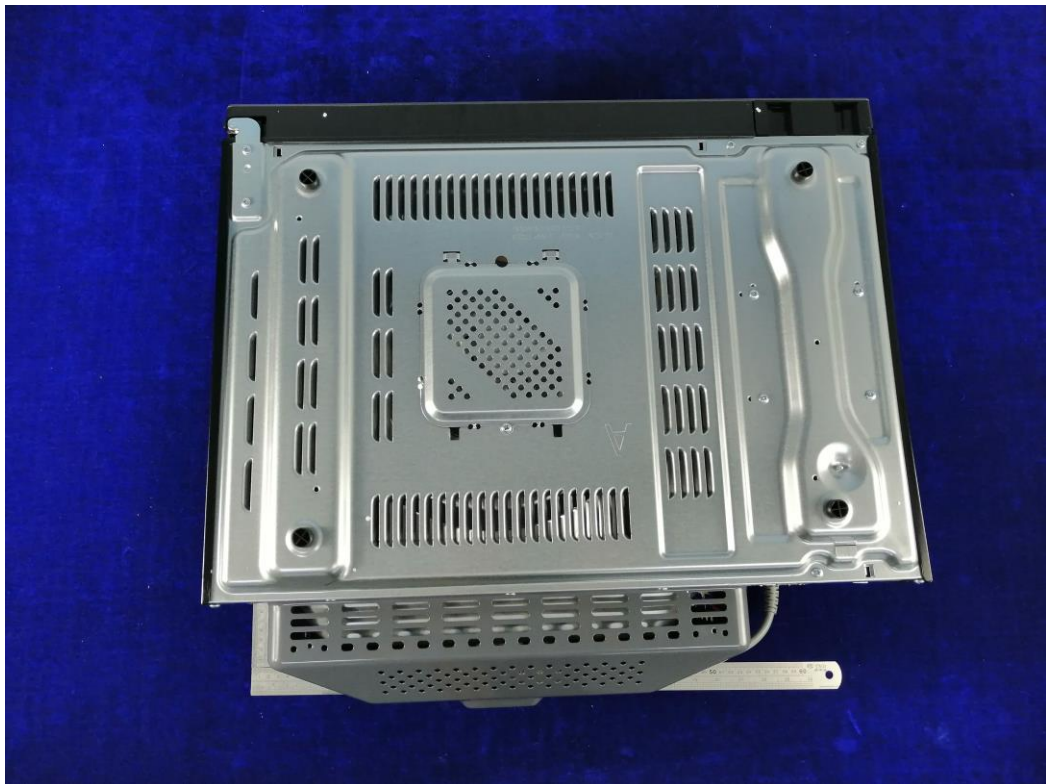
3. Conducted emission at AC mains input/output port Measurement



APPENDIX II: PHOTOGRAPHS OF THE EUT SAMPLE

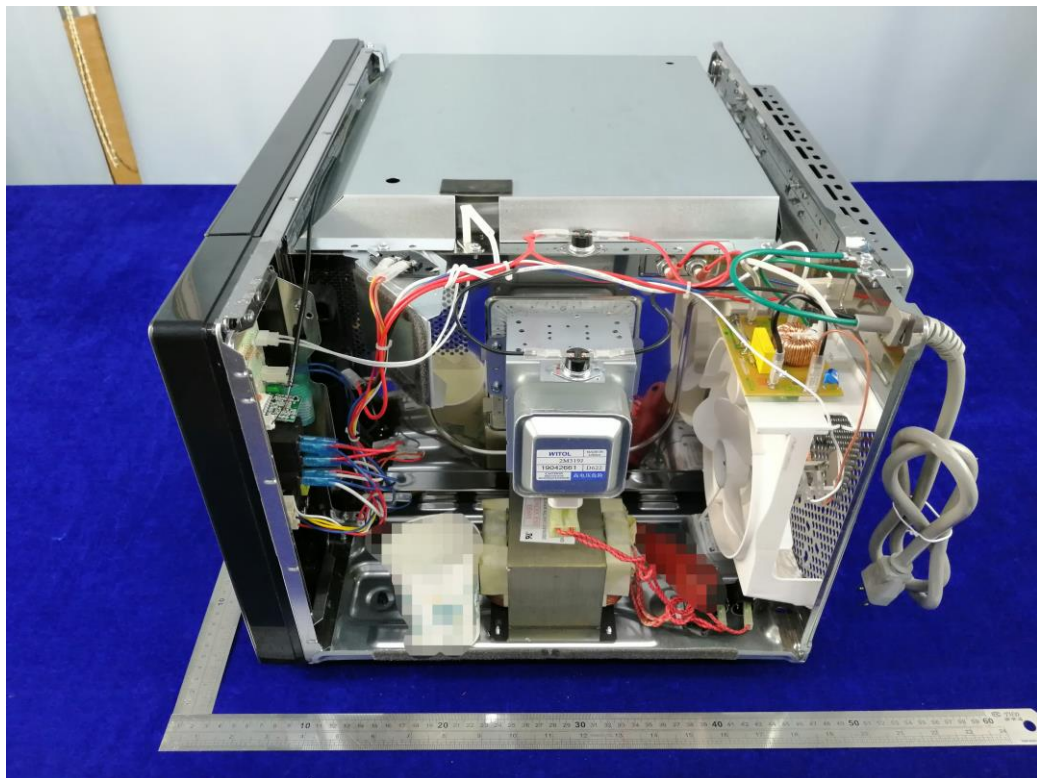
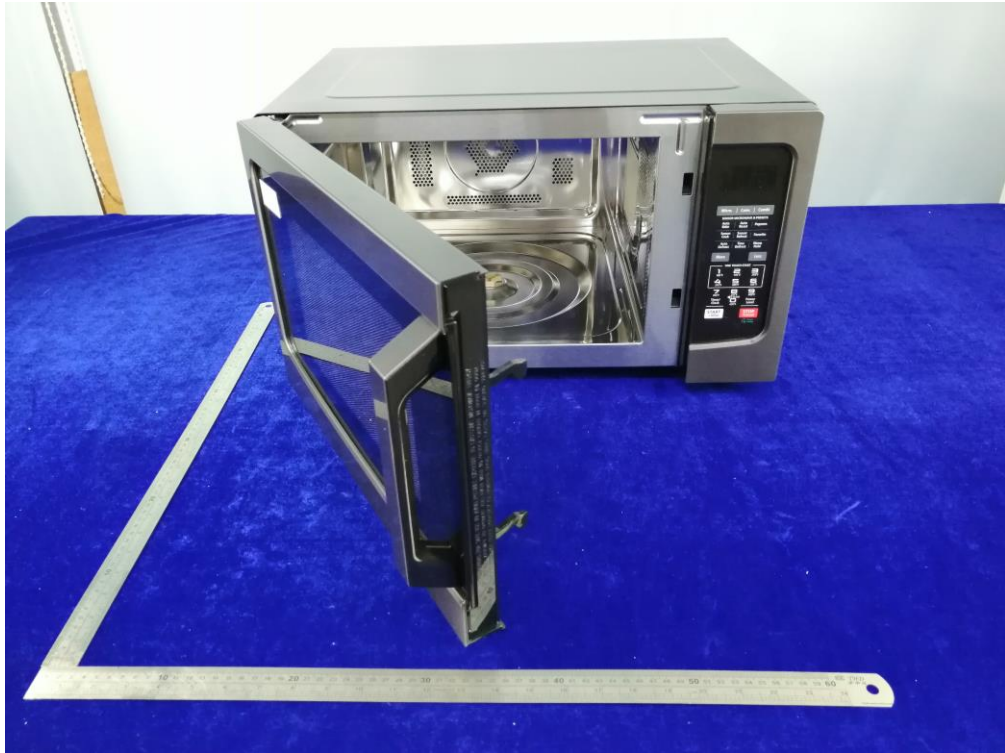
External Photo

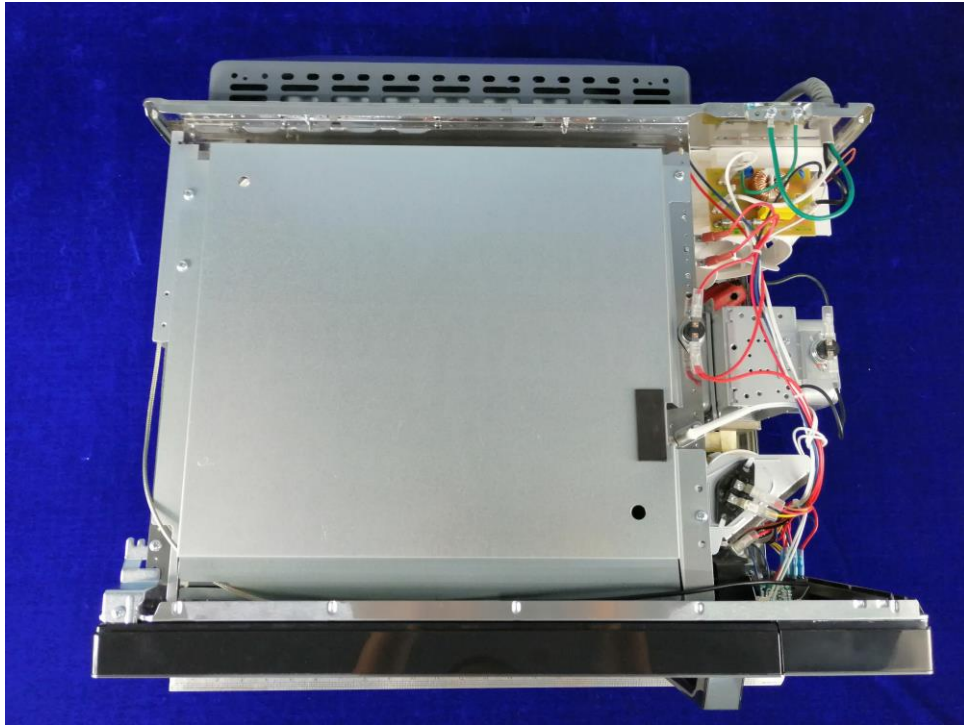




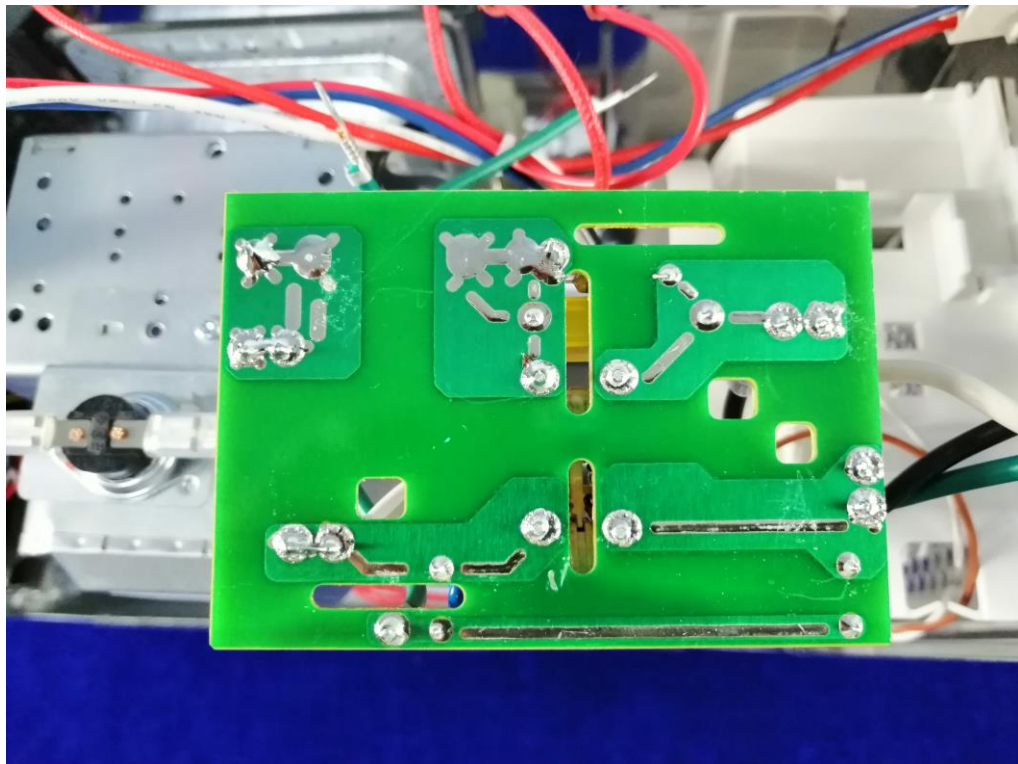
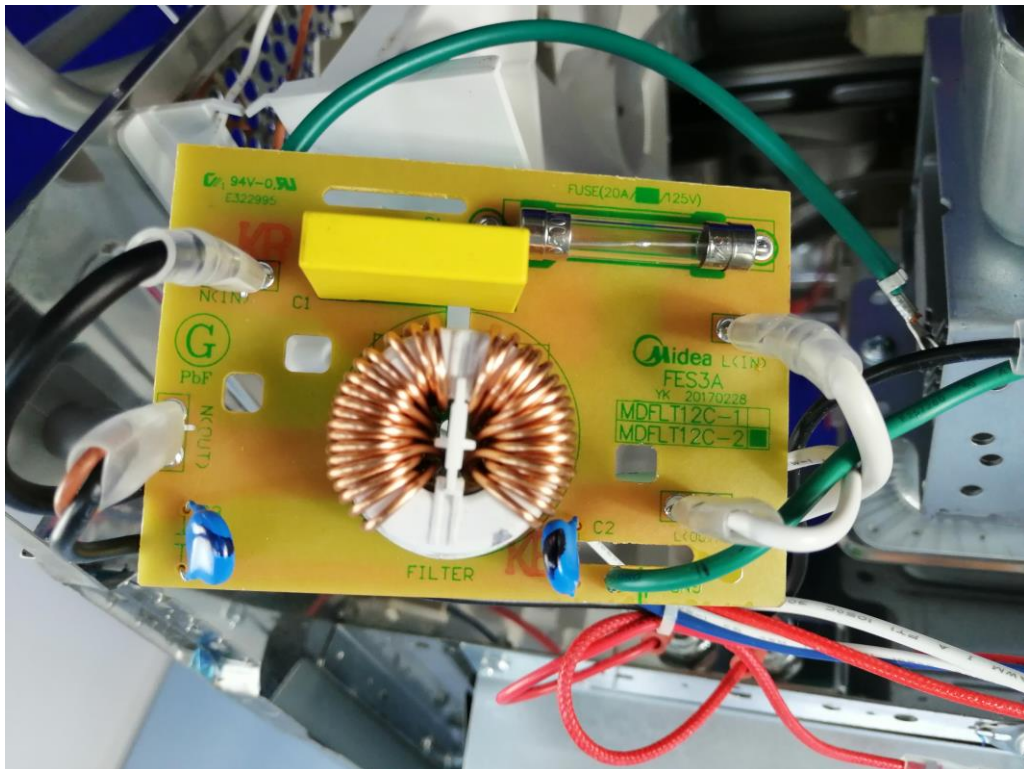


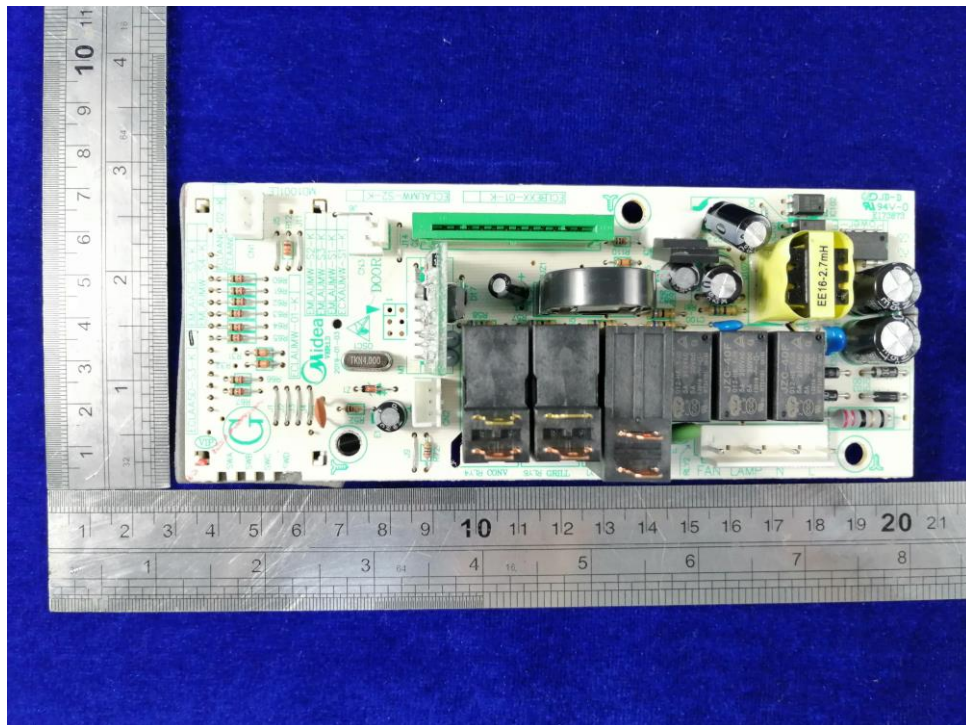
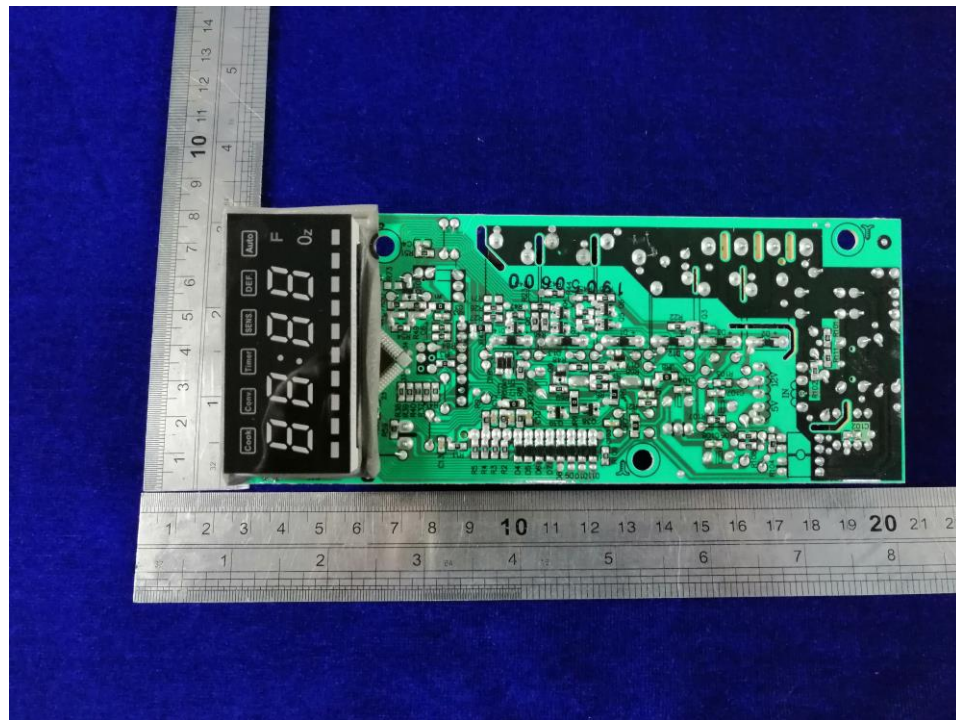
Internal Photo











*** End Of Report ***