



EMC TEST REPORT

Report No.: SET2020-02334

Product Name: Microwave Oven

Trade Name: Midea

Model No. : XC942AYY-GE, XC942AYYY-GE, CEB1599SSJSSC##,
CEB1599ELDSC##

FCC ID : VG8XC942AYYGE

Applicant: Guangdong Midea Kitchen Appliances Manufacturing Co., Ltd.

Received Date: 2020-03-17

Test Data: 2020.03.17-2020.03.25

Issued by: CCIC Southern Testing Co., Ltd.

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Test Report

Product Name..... Microwave Oven

Model No. XC942AYY-GE, XC942AYYY-GE, CEB1599SSJSSC##,
CEB1599ELDSC##

Trade Name..... Midea

Applicant..... Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.

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

Manufacturer Guangdong Midea Kitchen Appliances Manufacturing Co.,Ltd.

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

Test Standards 47 CFR Part 18

Test Result..... PASS

Tested by *Yun Lei Fang*
Fang Yun Lei Test Engineer 2020.03.25

Reviewed by *Chris You*
Chris You Senior Engineer 2020.03.25

Approved by *Shuangwen Zhang*
Shuangwen Zhang, Manager 2020.03.25

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Change History		
Issue	Date	Reason for change
1.0	2020.03.25	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 Differences are as below: XC942AYY-GE, XC942AYYY-GE, CEB1599SSJSSC##, CEB1599ELDSC## model designations as follow: X = E or T, Indicates different controller type ; C: Indicates Microwave and Grill and Convection; 942: "9" indicates the microwave output power is 900W, "42" indicates cavity capacity is 42 liters; A: indicates the design No.; YY, YYY or ##: "Y" or "#" may be 0-9, A-Z or blank, indicates different appearances; "-GE": Stands for "GE" exclusively use; Models of CEB1599SSJSSC##, CEB1599ELDSC## are identical to EC942AI5-GE except for model number and trade mark. Model EC942AI5-GE was chosen for the final testing.
Power Supply	120V AC/60Hz
Rated input Power(microwave):	1500W
Rated output Power(microwave):	900W
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 mode(According to FCC PART 18);

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:

No.	Identity	Document Title
1	47 CFR Part 18:2017	Radio Frequency Devices

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

Emission			
Standard	Item	Class / Severity	Result
47 CFR PART 18	Conducted Emission (150 kHz to 30 MHz)	18.307(b)	PASS
	Radiated Emission (30 MHz to 1 GHz)	18.305(b)	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. DesignationNumber: CN5031, valid time is until December 31, 2020.

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, 2020.

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 201008-0Test 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
Test Receiver	KEYSIGHT	N9038A	A141202036	2019.11.21	2020.11.21
LISN	ROHDE&SCHWARZ	ESH2-Z5	A0304221	2019.04.30	2020.04.30
Shield Room	Xinju Electronics	L7300*W4500* H3100	A181003226	2018.09.06	2021.09.05
EMI Test Receiver	ROHDE&SCHWARZ	ESIB7	A0501375	2019.07.30	2020.07.29
Broadband Ant.	2786	ETC	A150402239	2018.09.17	2021.09.16
3M Anechoic Chamber	Albatross	SAC-3MAC 9*6*6m	A0412375	2019.03.26	2023.03.25
EMI Test Receiver	ROHDE&SCHWARZ	ESW26	A180502935	2019.09.22	2020.09.22
System Simulator	ROHDE&SCHWARZ	CMW500	A150802214	2019.07.30	2021.07.29
5M Anechoic Chamber	Albatross	SAC-5MAC 12.8x6.8x6.4m	A0304210	2019.03.25	2023.03.24
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: 2456-2467MHz

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	2456.3-2467.5
Line Voltage	2454.1-2467.7

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 microwave meter will check the leakage and then record the maximum leakage.

3.2.2 Limit

A maximum of 1.0mW/cm² is allowed in accordance with the applicable FCC standards.

3.2.3 Test results

There was no microwave leakage exceeding a power level of 0.17 mW/cm² 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	19.0	10.0	32	120	760.2

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

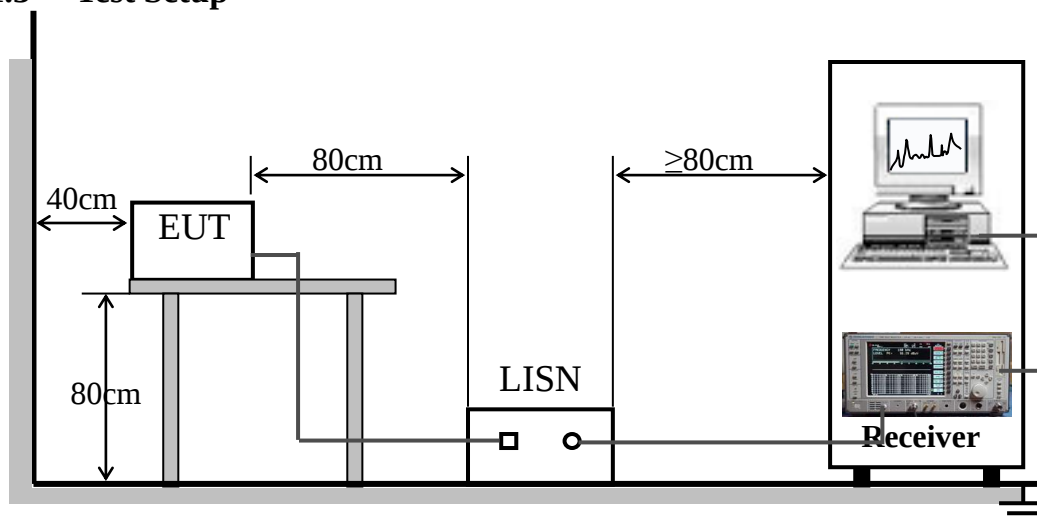
Note:

- 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

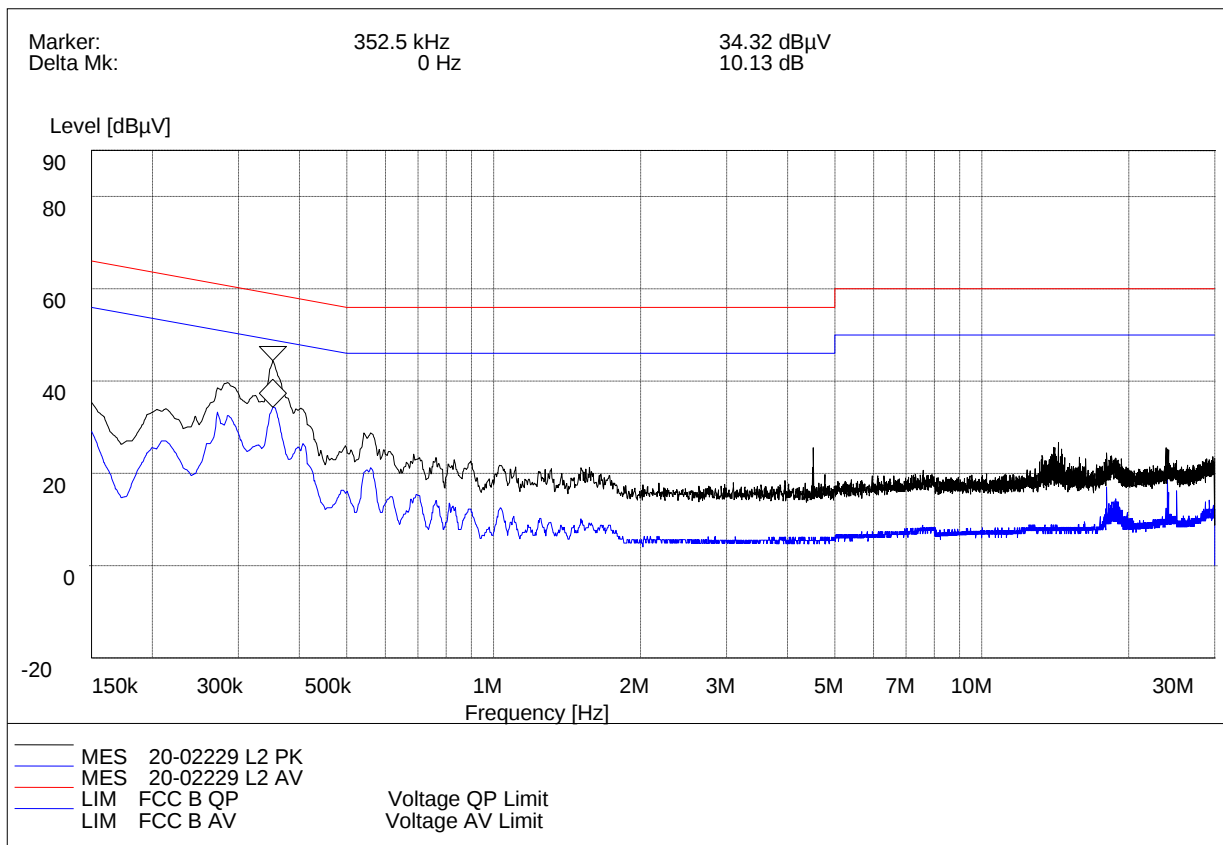
The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides 50 Ω /50 μ H of coupling impedance for the measuring instrument. The Common Antenna 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:

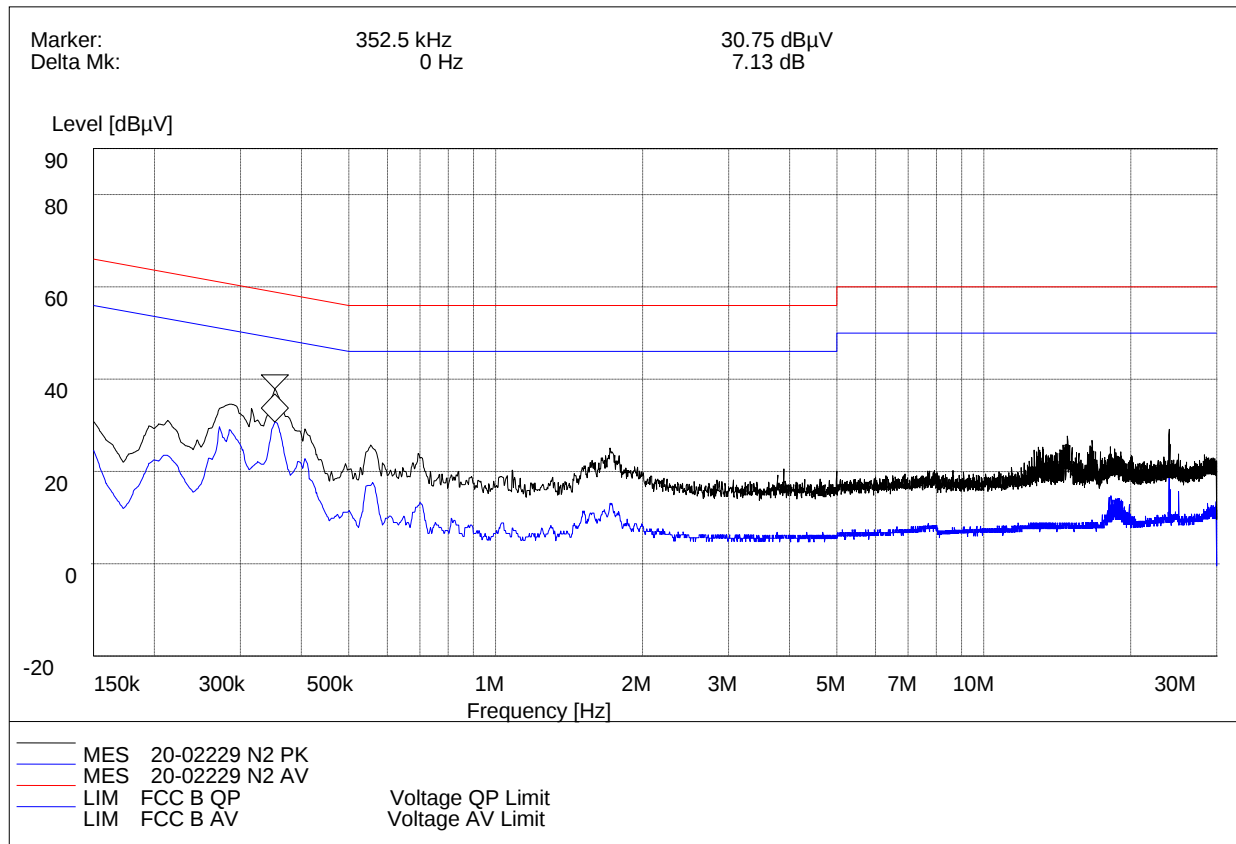
Mains terminal disturbance voltage, Setup1,L phase



(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	33.14	32.86	0.1500	56.00	27.46	28.54
0.2130	63.10	31.28	31.82	0.2130	53.10	25.43	27.67
0.2850	60.70	37.43	23.27	0.2850	50.70	31.66	19.04
0.3525	58.90	42.16	16.74	0.3525	48.90	33.08	15.82
0.5590	56.00	26.41	29.59	0.5590	46.00	20.63	25.37
0.6855	56.00	22.80	33.20	0.6855	46.00	13.54	32.46

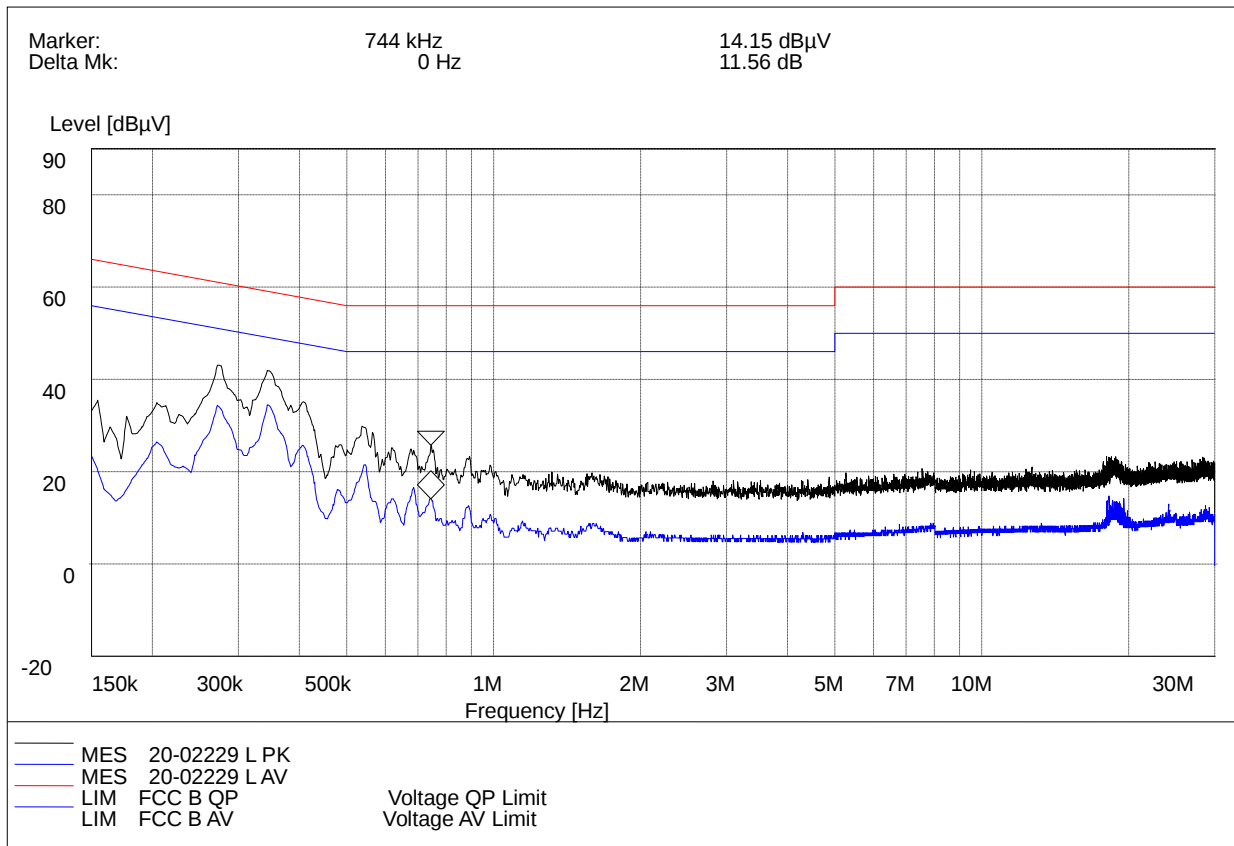
Mains terminal disturbance voltage, Setup 1, N phase



(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	28.64	37.36	0.1500	56.00	23.16	32.84
0.2124	63.10	28.41	34.69	0.2124	53.10	21.94	31.16
0.2841	60.70	32.56	28.14	0.2841	50.70	27.38	23.32
0.3519	58.90	35.68	23.22	0.3519	48.90	28.63	20.27
0.5564	56.00	24.13	31.87	0.5564	46.00	16.25	29.75
0.6945	56.00	22.10	33.9	0.6945	46.00	11.59	34.41

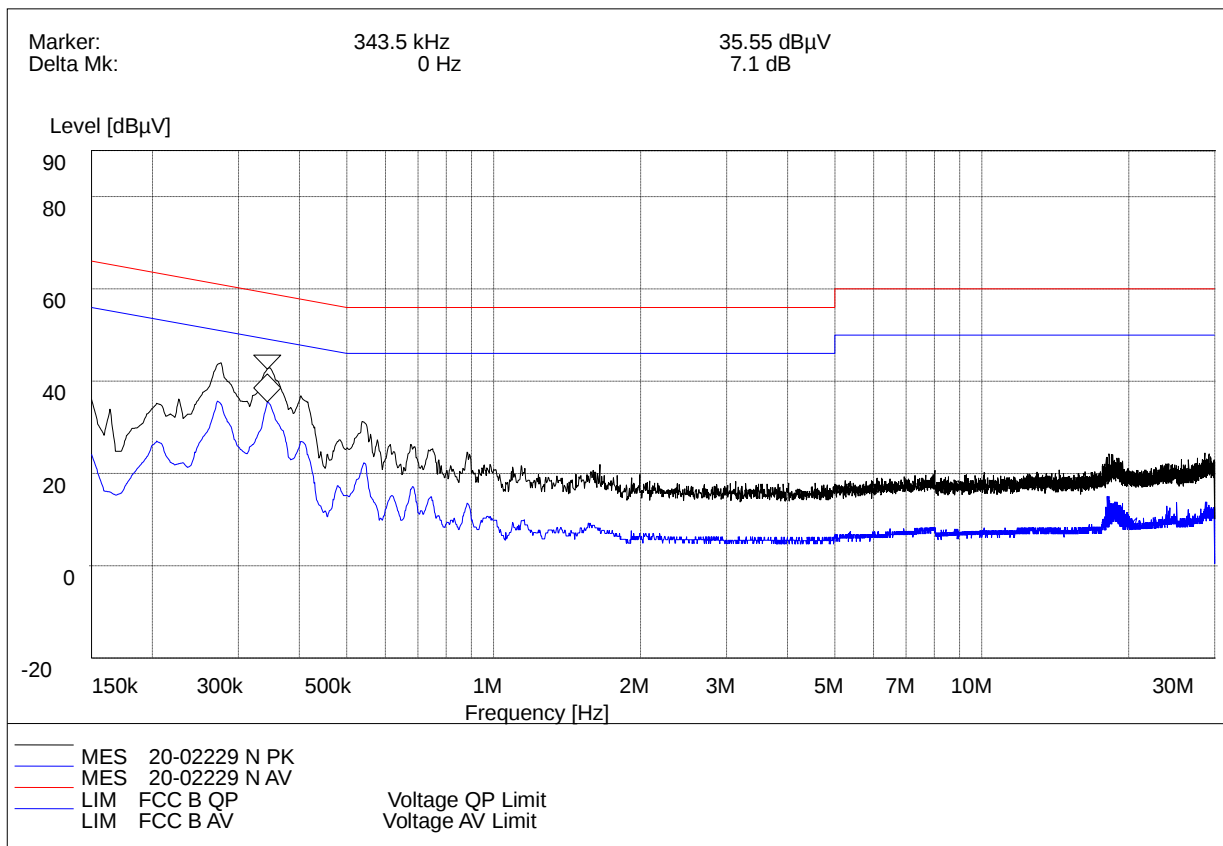
Mains terminal disturbance voltage, Setup2,L phase



(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)
0.1540	65.80	33.40	32.40	0.1540	55.80	18.67	37.13
0.2710	61.50	40.18	21.32	0.2710	51.50	33.64	17.86
0.3435	59.10	39.88	19.22	0.3435	49.10	32.79	16.31
0.4065	57.70	33.62	24.08	0.4065	47.70	24.95	22.75
0.5415	56.00	27.56	28.44	0.5415	46.00	20.69	25.31
0.7740	56.00	24.50	31.50	0.7740	46.00	13.05	32.95

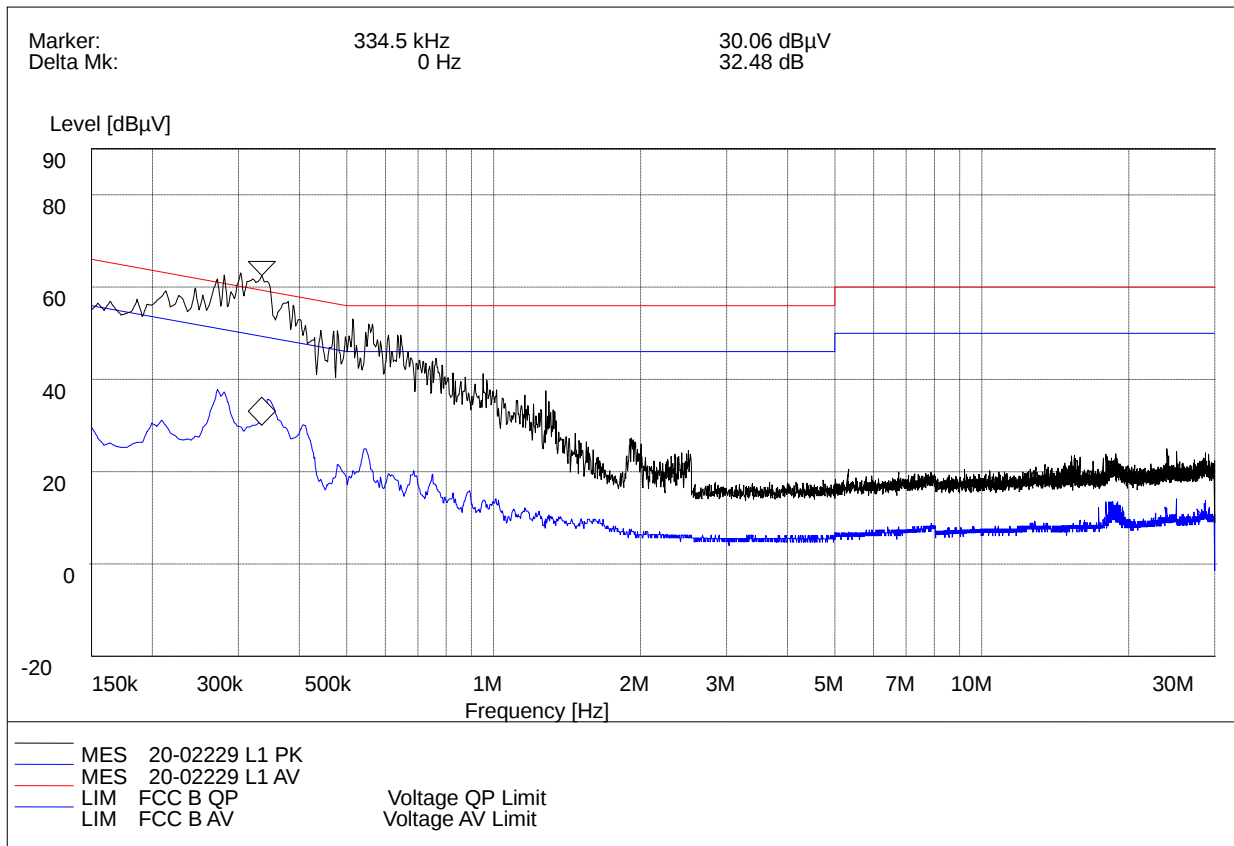
Mains terminal disturbance voltage, Setup 2, N phase



(Plot B: N Phase)

Conducted Disturbance at Mains Terminals							
N Test Data							
QP				AV			
Frequency (MHz)	Limits (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	34.20	31.80	0.1500	56.00	23.16	32.84
0.2710	61.50	41.35	20.15	0.2710	51.50	34.11	17.39
0.3291	59.10	40.32	18.78	0.3291	49.10	34.22	14.88
0.4193	57.80	35.13	22.67	0.4193	47.80	26.07	21.73
0.5415	56.00	28.16	27.84	0.5415	46.00	22.11	23.89
0.6810	56.00	23.37	32.63	0.6810	46.00	16.51	29.49

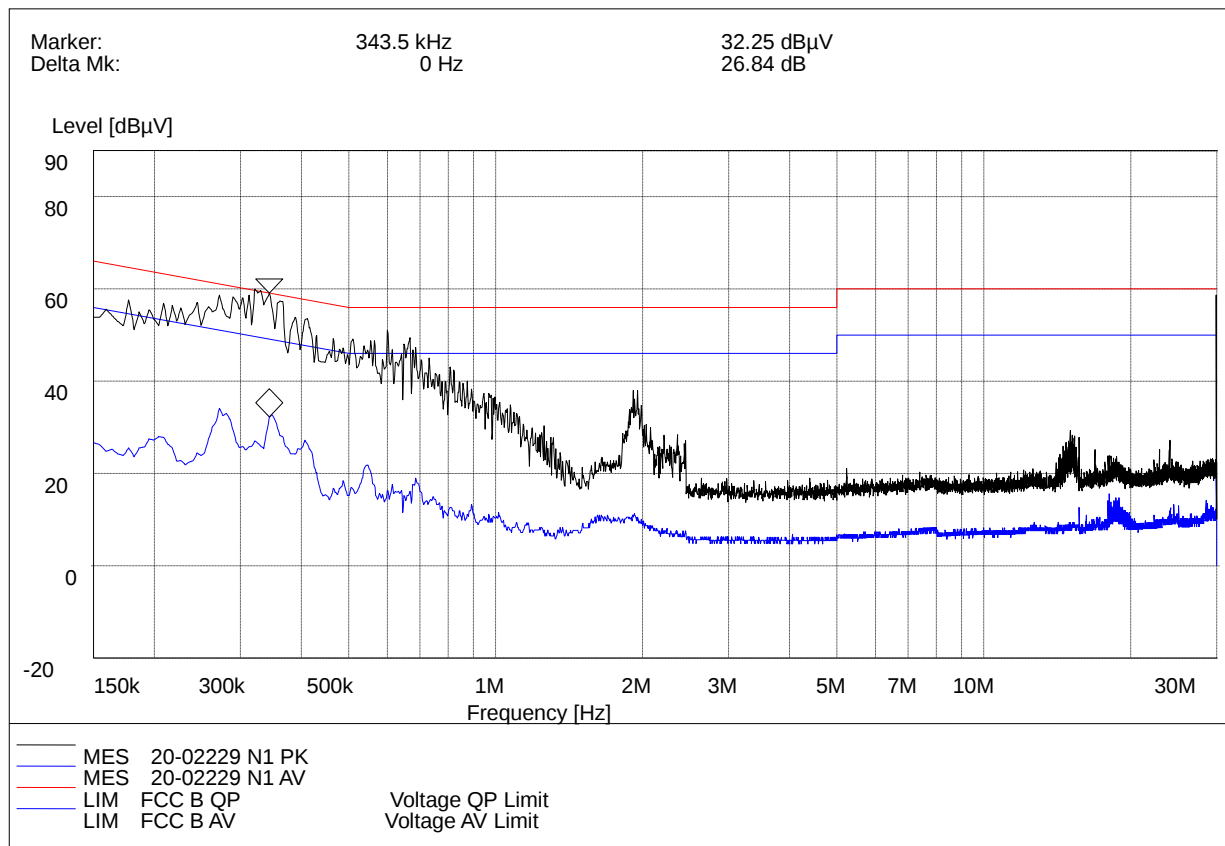
Mains terminal disturbance voltage, Setup3,L phase



(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)
0.2130	63.10	57.45	5.65	0.2130	53.10	28.69	24.41
0.2800	60.80	59.49	1.31	0.2800	50.80	36.55	14.25
0.3340	59.40	57.69	1.71	0.3340	49.40	28.49	20.91
0.3790	58.30	53.84	4.46	0.3790	48.30	26.63	21.67
0.5140	56.00	50.44	5.56	0.5140	46.00	18.67	27.33
0.5640	56.00	48.97	7.03	0.5640	46.00	19.74	26.26

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)
0.1770	64.60	55.41	9.19	0.1770	54.60	23.50	31.10
0.2710	61.10	56.49	4.61	0.2710	51.10	32.64	18.46
0.3210	59.70	57.28	2.42	0.3210	49.70	26.50	23.20
0.3435	59.10	56.30	2.80	0.3435	49.40	30.82	18.58
0.4110	57.60	51.91	5.69	0.4110	47.60	25.70	21.90
0.6675	56.00	46.03	9.97	0.6675	46.00	15.84	30.16

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:

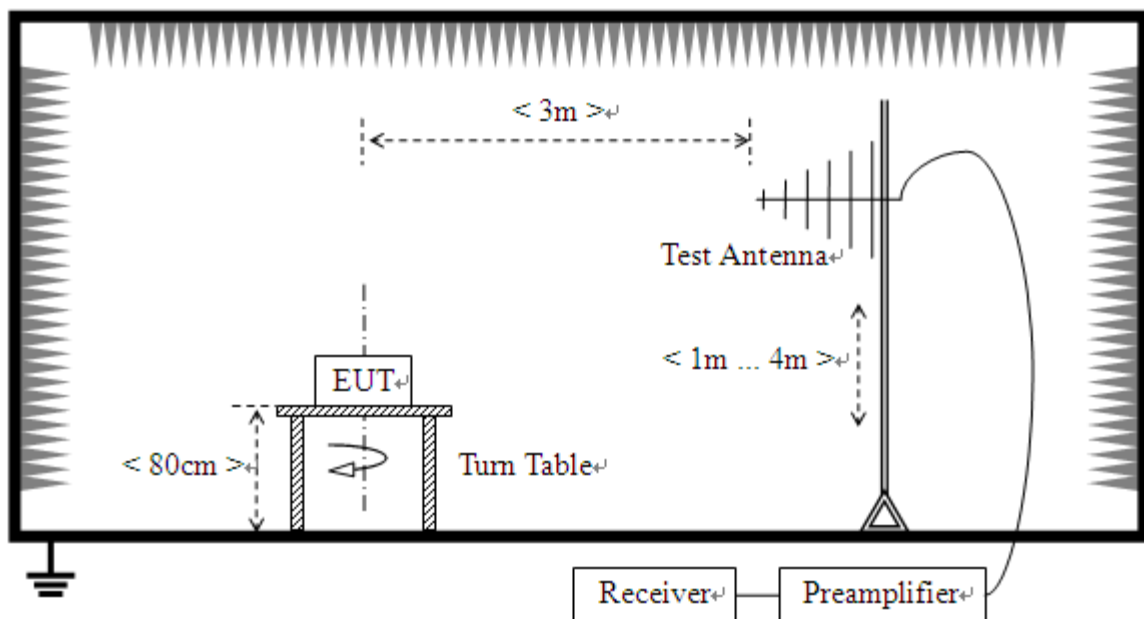
RF Power generated by equipment(watts)	Field strength limit(uV/m) @300m
Below 500	25
500 or more	$25 \cdot \sqrt{\text{power}/500}$

Power =760.2 W

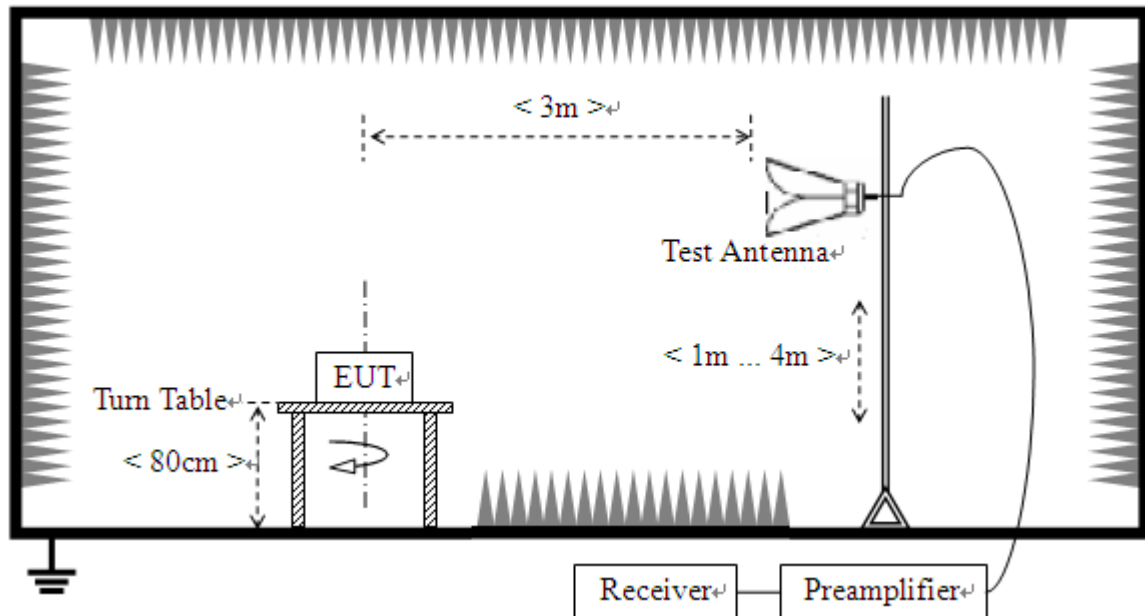
Limit= $20\lg(25 \cdot \sqrt{\text{power}/500}) + 20\lg(300/3)$ @ 3m distance.

5.1.2 Test Setup

For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



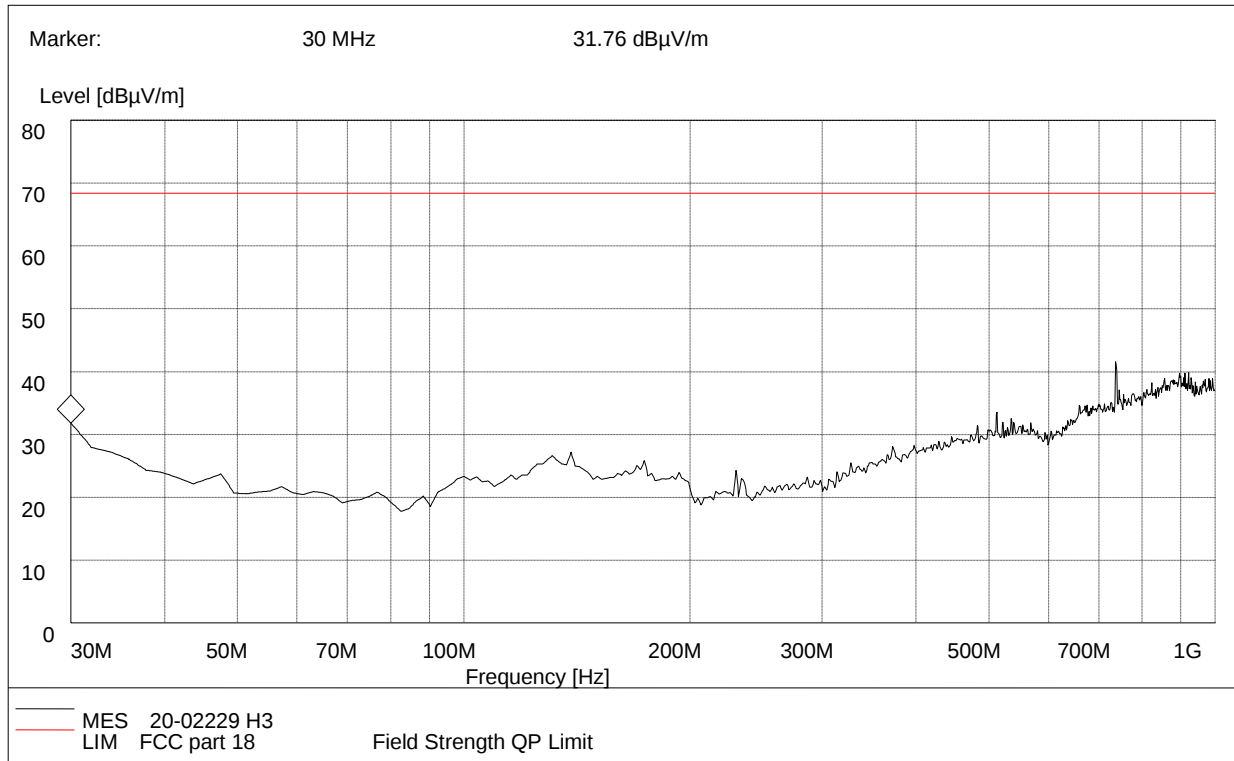
5.1.3 Test Procedure

- 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.
- 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.
- 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
- 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.
- 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.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

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

Test Result:

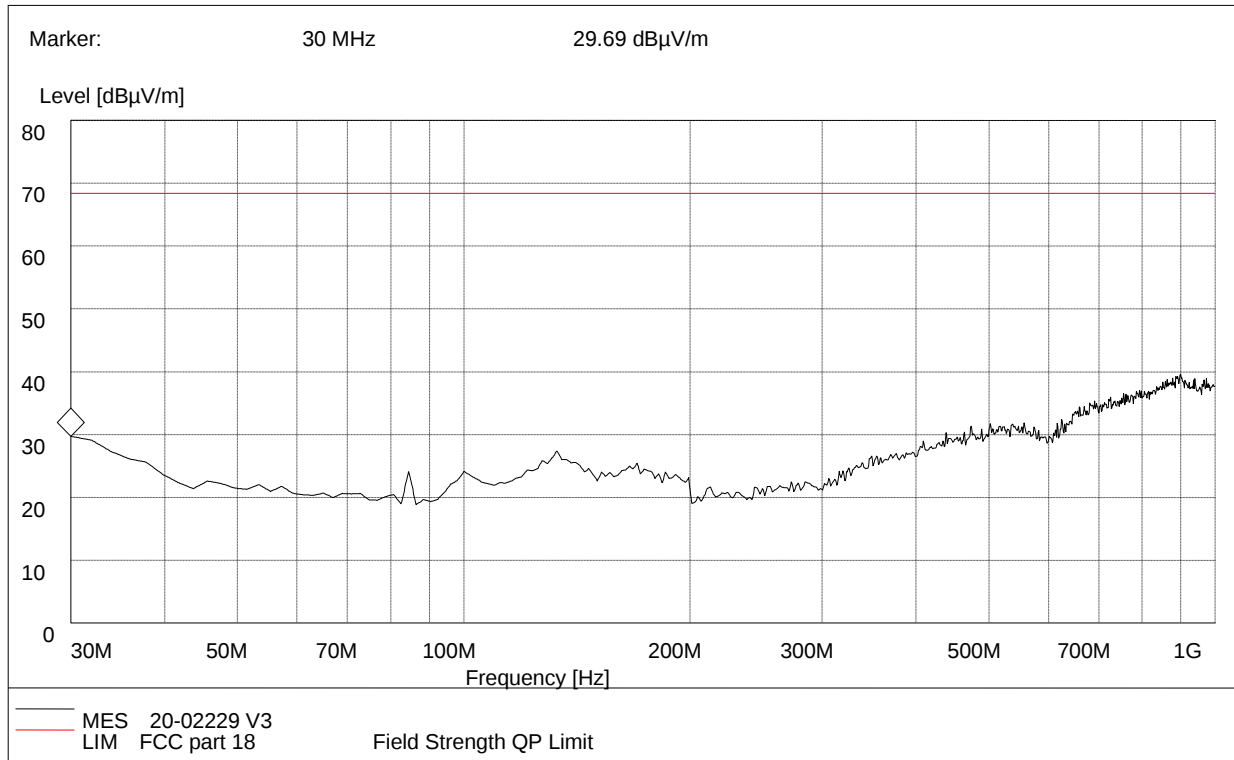
Radiation disturbances, antenna polarization: Setup1, Horizontal



(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
745.02	37.55	120.000	112.0	69.78	32.23	Horizontal	Pass

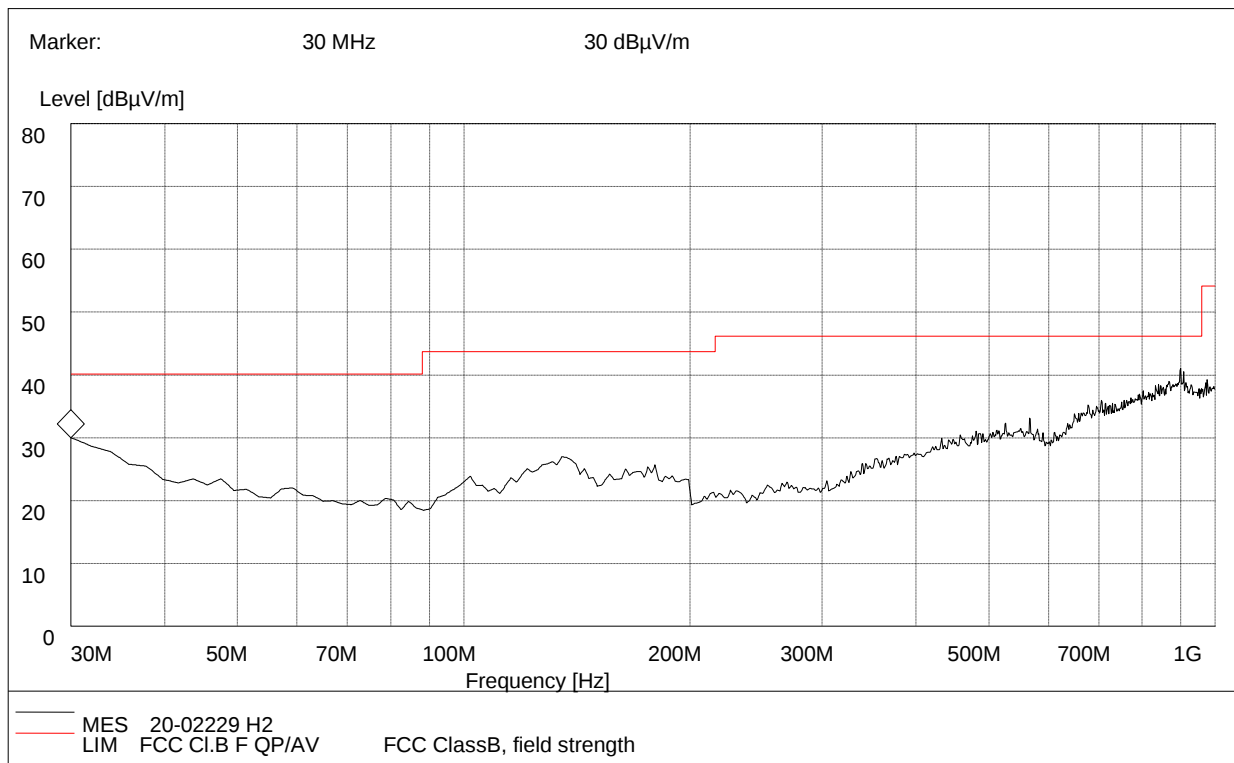
Radiation disturbances, antenna polarization:Setup1,Vertical



(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
30.00	30.87	120.000	123.0	69.78	38.91	Vertical	Pass

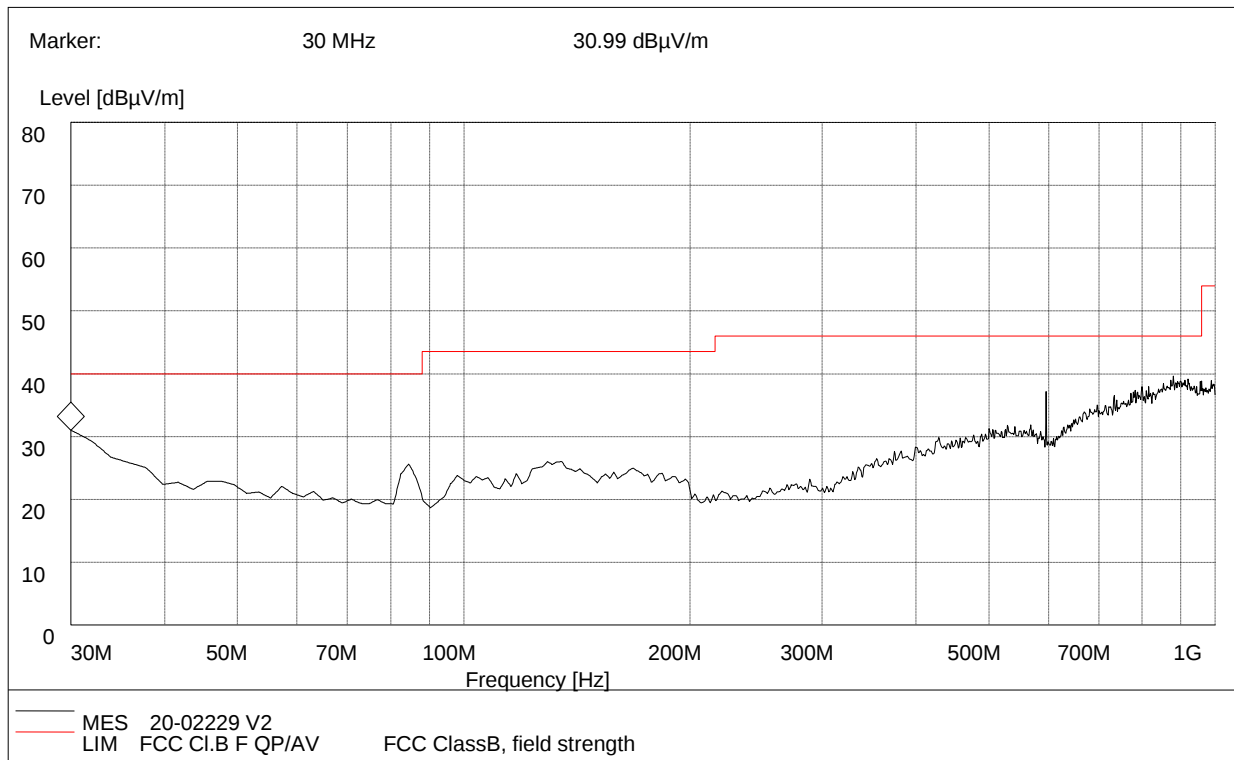
Radiation disturbances, antenna polarization:Setup2,Horizontal



(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
905.47	40.74	120.000	112.0	46.00	5.26	Horizontal	Pass

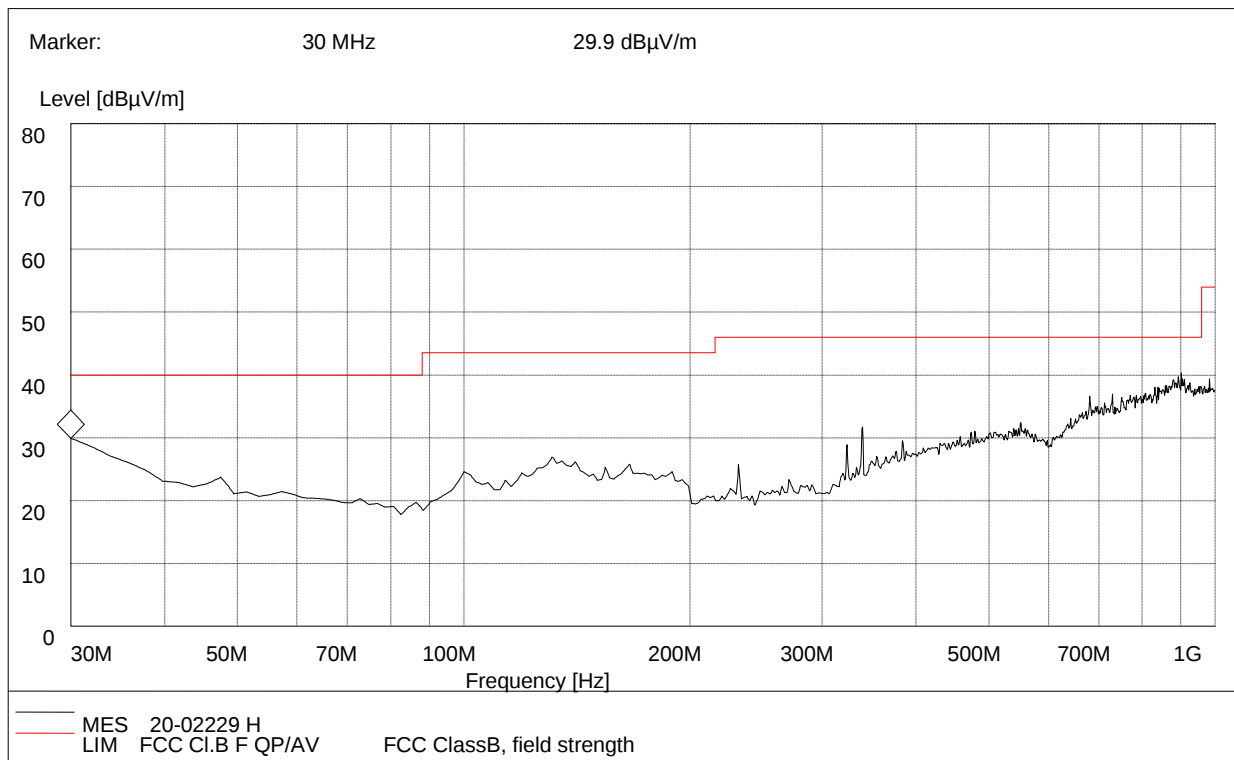
Radiation disturbances, antenna polarization:Setup2,Vertical



(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
595.03	38.37	120.000	123.0	46.00	7.63	Vertical	Pass

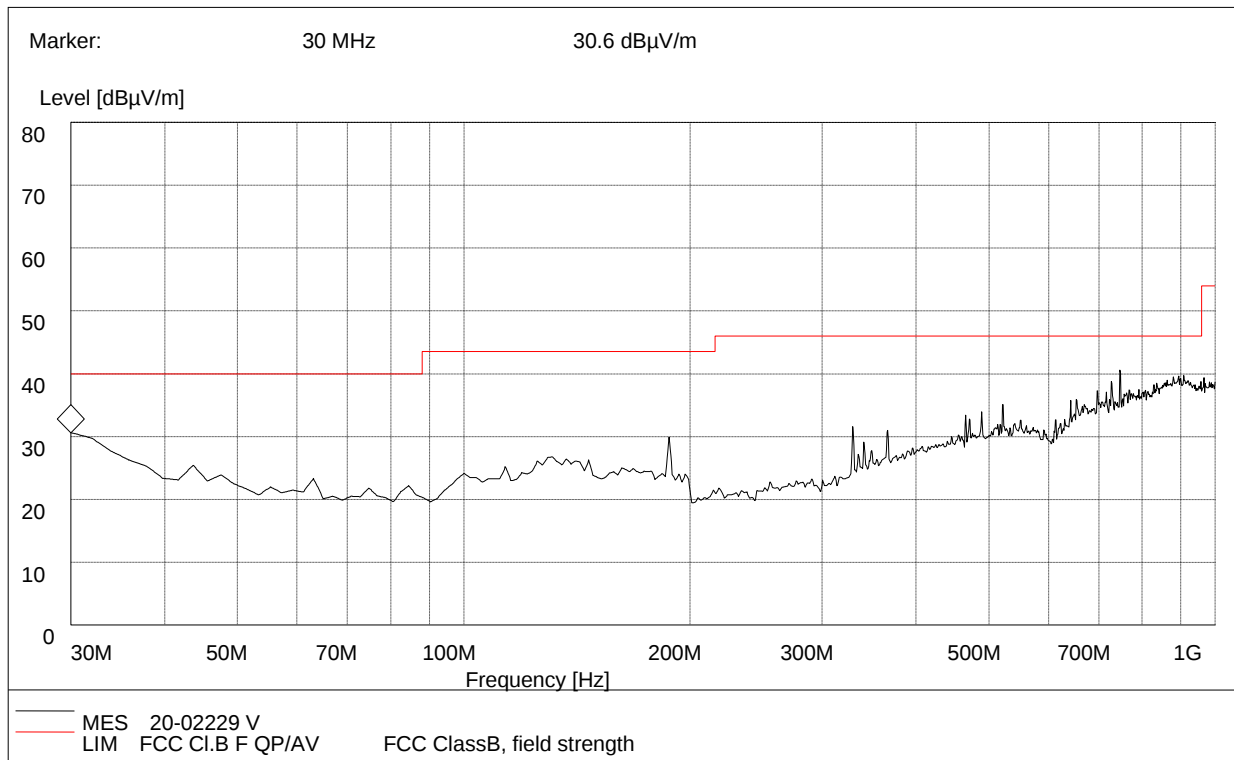
Radiation disturbances, antenna polarization:Setup3,Horizontal



(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
338.42	30.85	120.000	112.0	46.00	15.15	Horizontal	Pass

Radiation disturbances, antenna polarization: Setup3, Vertical



(Plot D: 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	Horizontal
186.72	26.96	120.000	123.0	43.50	16.54	Vertical	Pass

**Above 1GHz Setup1**

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1505.87	46.13	-11.39	69.78	23.65	100	210	Horizontal
2	2445.36	61.92	-3.82	69.78	7.86	100	360	Horizontal
3	2679.16	60.79	-1.77	69.78	8.99	100	270	Horizontal
4	4009.75	62.86	2.86	69.78	6.92	100	260	Horizontal
5	4252.06	61.45	3.50	69.78	8.33	100	250	Horizontal
6	4872.71	57.31	4.03	69.78	12.47	100	310	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	69.78	17.91	100	296	Vertical
2	1756.68	58.24	-15.25	69.78	11.54	100	359	Vertical
3	2466.61	61.44	-11.30	69.78	8.34	100	18	Vertical
4	3491.12	59.72	-7.31	69.78	10.06	100	360	Vertical
5	7453.11	60.46	2.84	69.78	9.32	100	39	Vertical
6	12422.6	59.19	9.62	69.78	10.59	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:

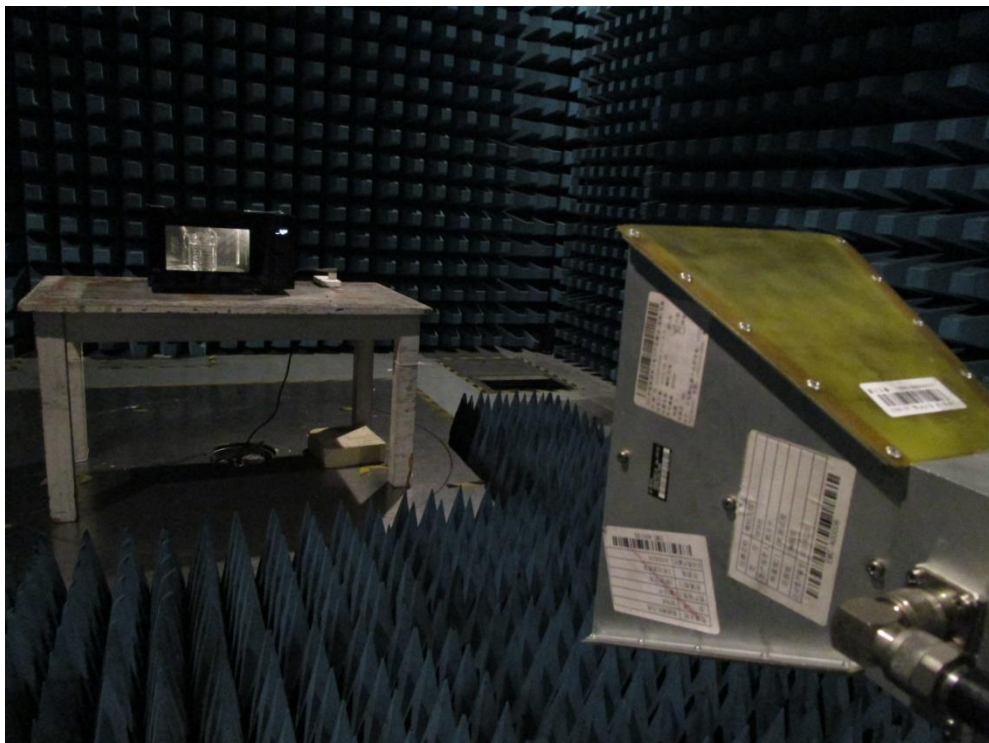
1. Emission Level (dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
- Pre-Amplifier Factor(dB)
3. For Set up 2 mode, The EUT's internal highest frequency is less than 108MHz, so test frequency range is up to 1000MHz. Other frequency 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



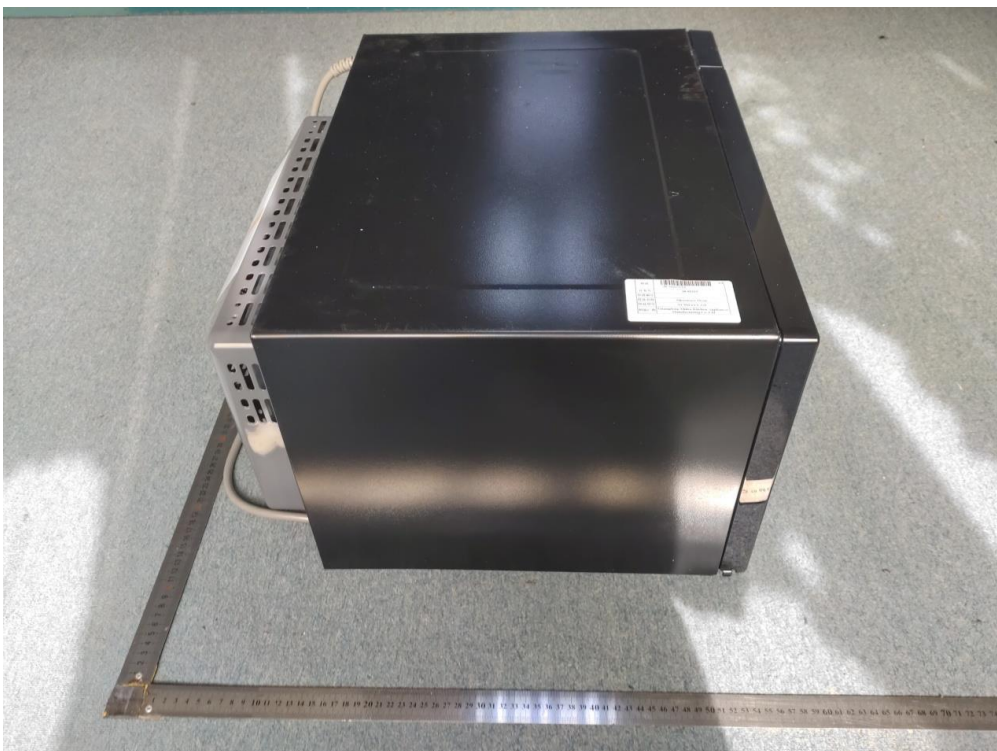
3. Conducted emission at AC mains input/output port Measurement



APPENDIX II: PHOTOGRAPHS OF PRODUCT PHOTO

External Photo



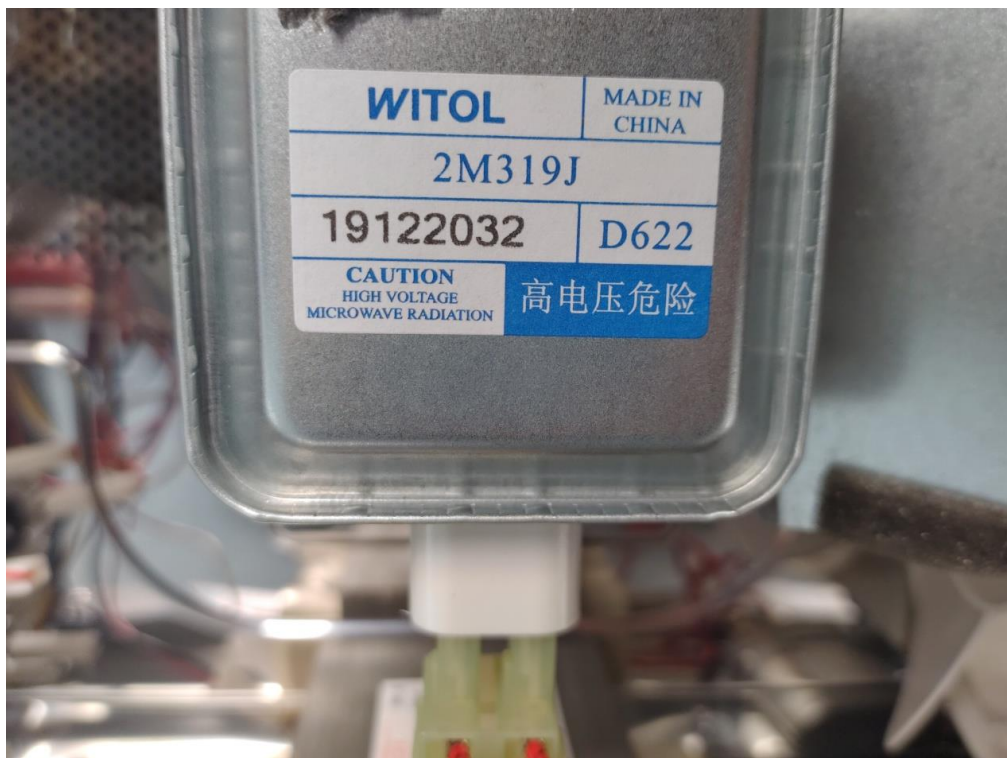
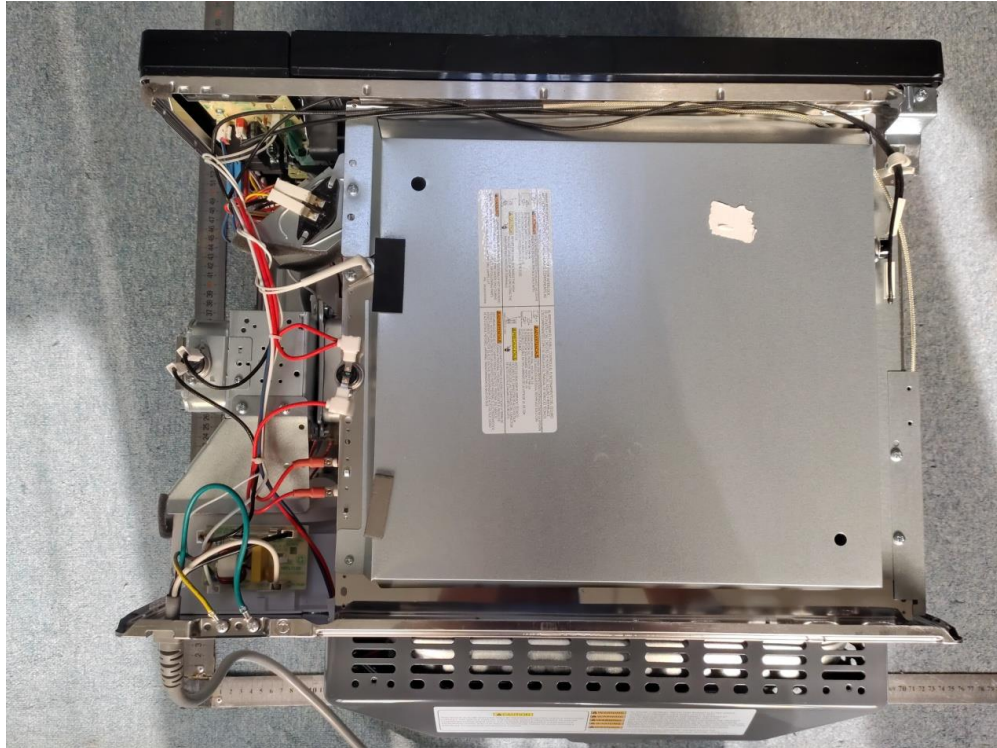


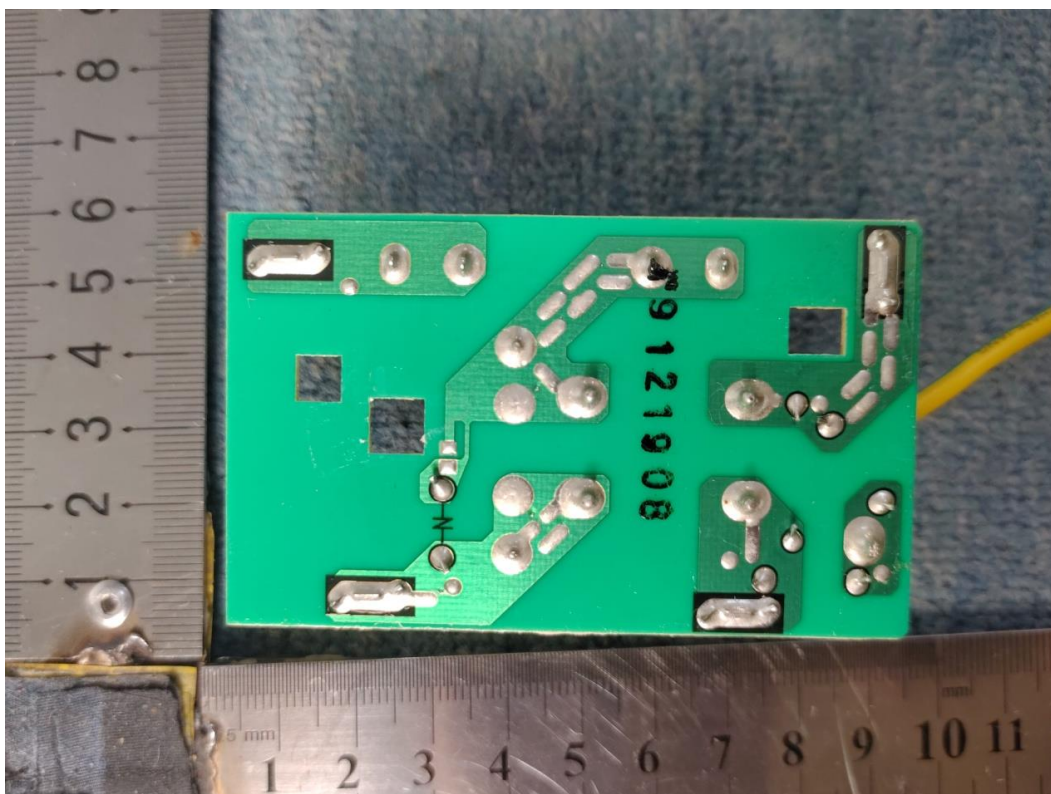
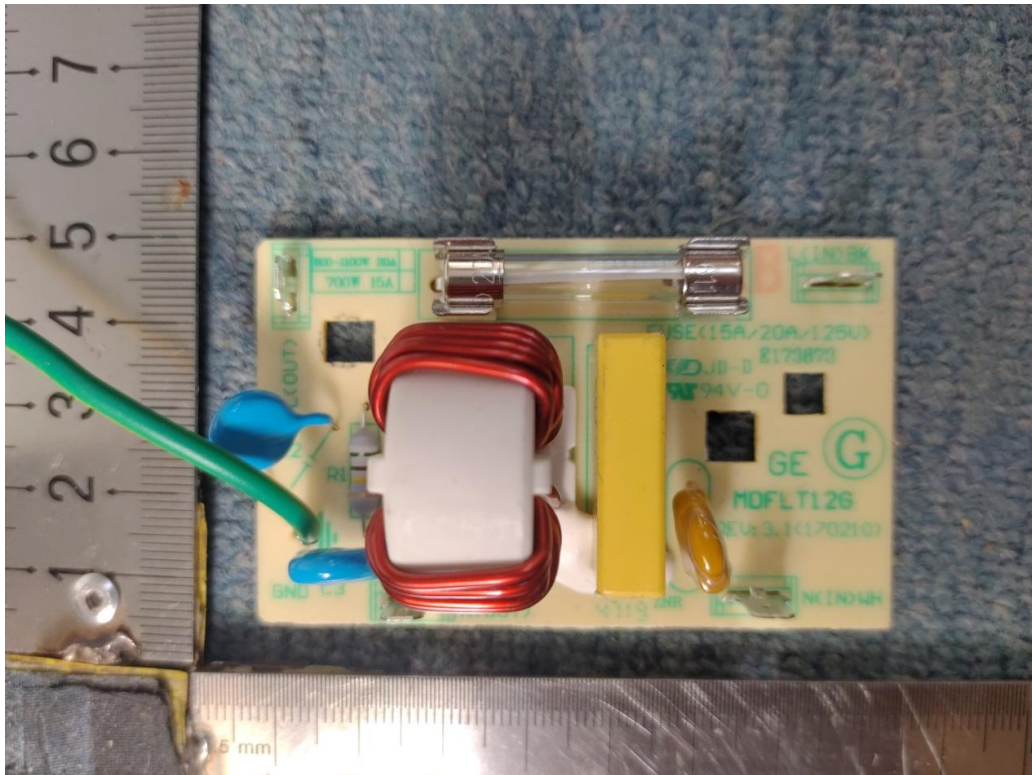


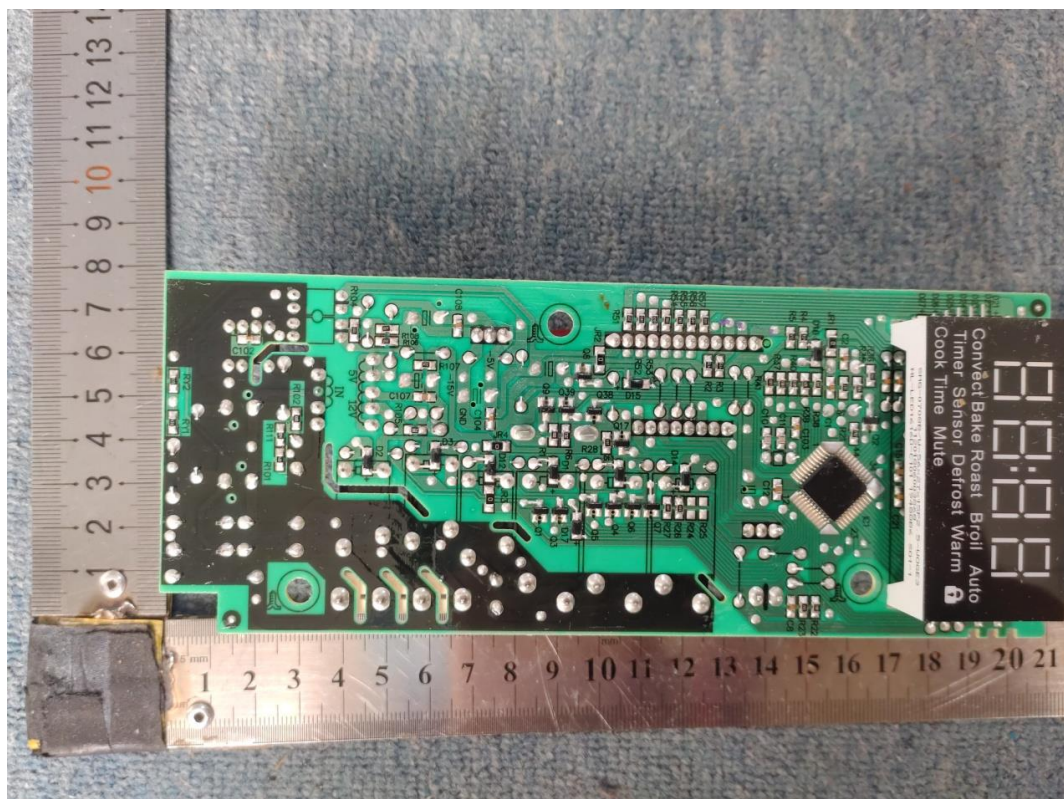
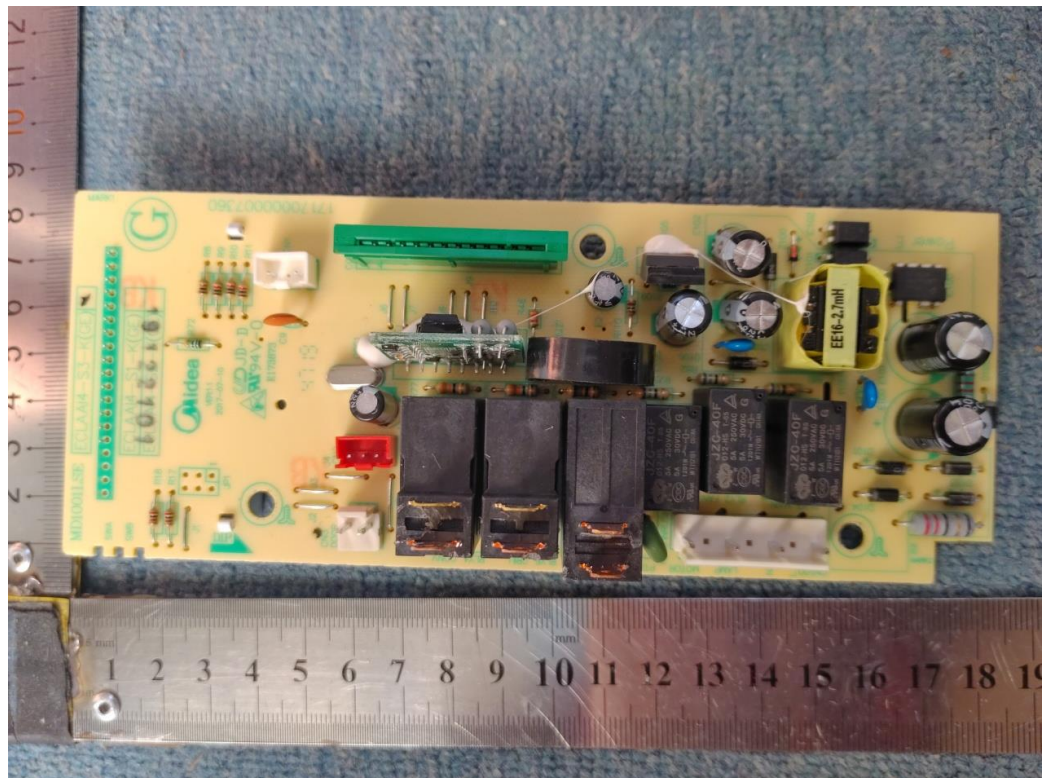
Report No.: SET2020-02334

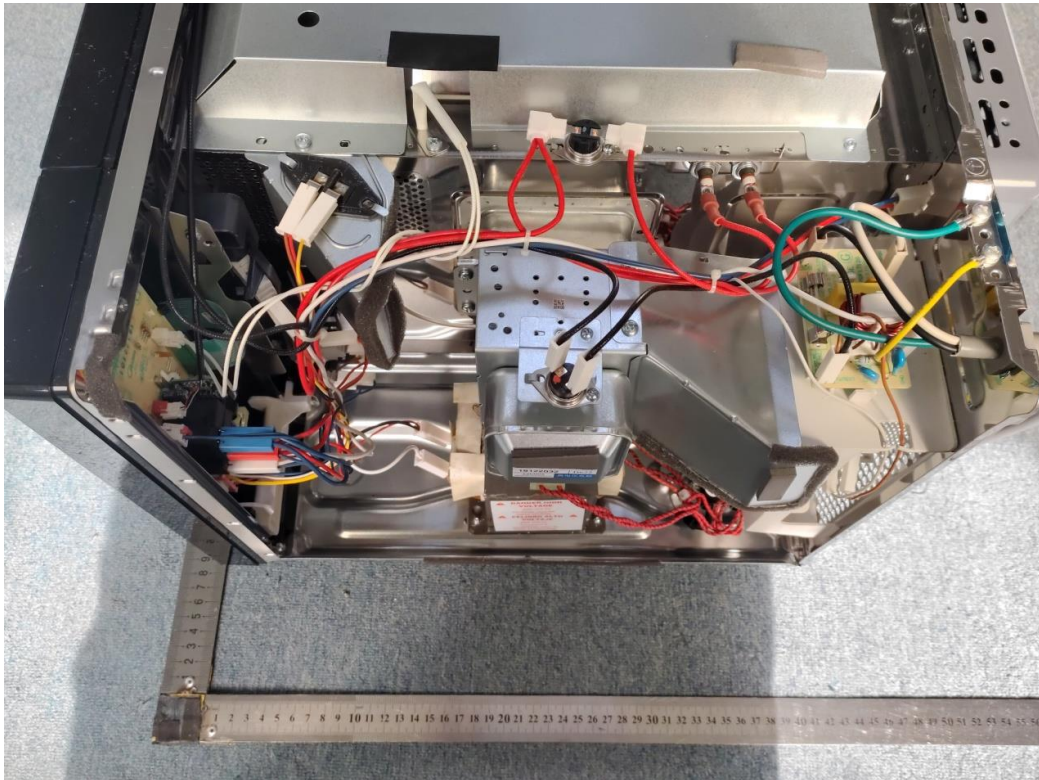


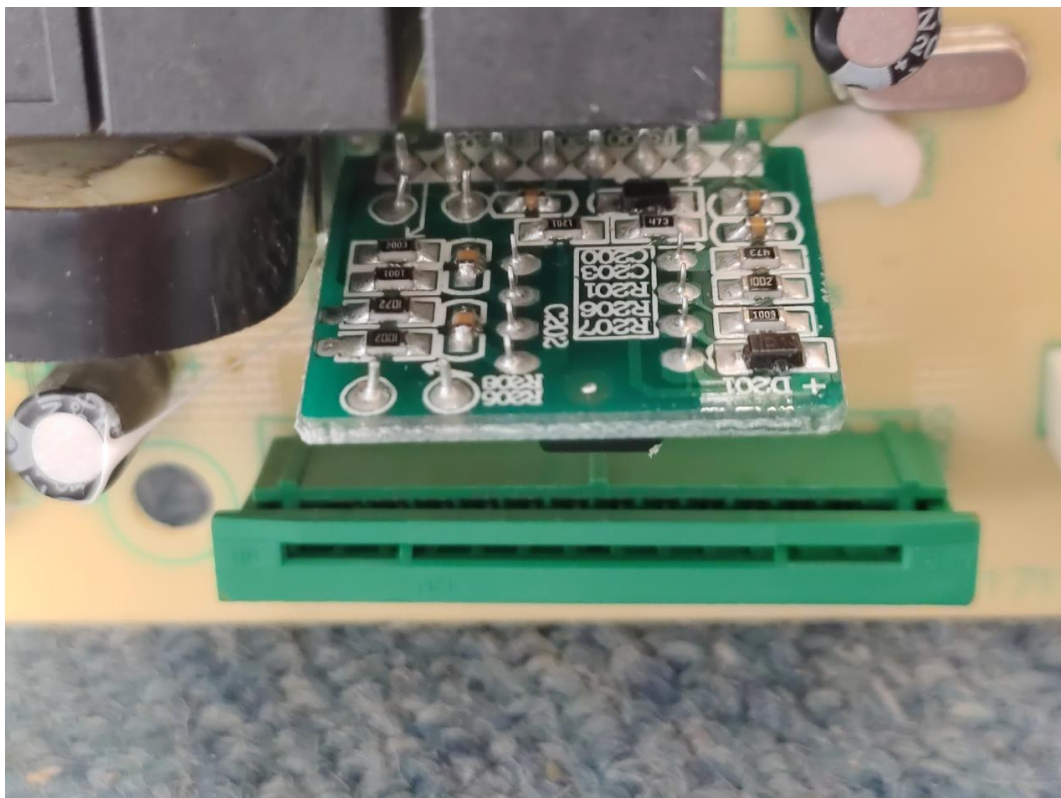
Internal Photo











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