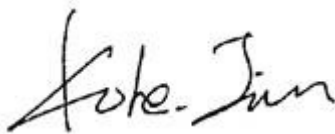


TEST REPORT

Application No.: GZEM2005012279HS
Applicant: Guangdong MD Consumer Electric Manufacturing Co., Ltd
Address of Applicant: 19 Sanle Road, Beijiao, Shunde, Foshan, Guangdong, China
Manufacturer: Guangdong MD Consumer Electric Manufacturing Co., Ltd
Address of Manufacturer: 19 Sanle Road, Beijiao, Shunde, Foshan, Guangdong, China
Factory: Guangdong MD Consumer Electric Manufacturing Co., Ltd
Address of Factory: 19 Sanle Road, Beijiao, Shunde, Foshan, Guangdong, China
Equipment Under Test (EUT):
EUT Name: Induction Cooker
FCC ID: TAPC18-RK18W01
Model No.: C18-RK18W01, C18-RK18W01A, NS-IC1ZBK0, NS-IC1ZPBK0, B07S2628R9, C18-RK18W01B □
 ✕ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s): 47 CFR Part 18
Date of Receipt: 2020-05-13
Date of Test: 2020-05-21 to 2020-05-22
Date of Issue: 2018-12-10 (For original report: GZEM180700372301)
 2019-04-11 (For copy report: GZEM180700372303)
 2019-09-06 (For copy report: GZEM180700372306)
 2020-05-29 (For copy report: GZEM180700372308)

Test Result:	Pass*
---------------------	--------------

* 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		2018-12-10		Original
02		2019-04-11		Copy report: Added models and updated some circuit.
03		2019-09-06		Copy report: Added model.
04		2020-05-29		Copy report: Added new model and alternated the IC chip of switch and control board.

Authorized for issue by:			
Tested By		2020-05-21 to 2020-05-22	
	Allen_Zhou /Project Engineer	Date	
Checked By		2020-05-29	
	Terry_Lai /Reviewer	Date	



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (9kHz-30MHz)	47 CFR Part 18	FCC OST/MP-5:1986	Class B	Pass
Radiated Emissions (Magnetic field Strength) (9kHz-30MHz)	47 CFR Part 18	FCC OST/MP-5:1986	Class B	Pass

Remark for report: GZEM180700372303

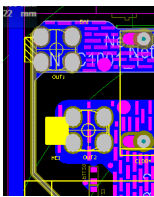
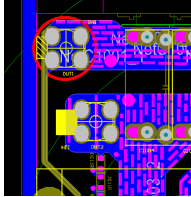
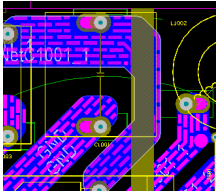
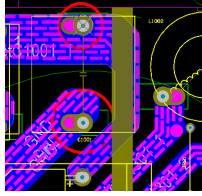
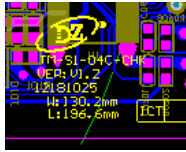
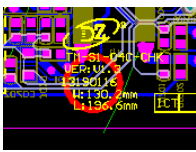
□ Declaration of EUT Family Grouping:

Model No.: C18-RK18W01, C18-RK18W01A, NS-IC1ZBK0, NS-IC1ZPBK0

The GZEM180700372303 report was a copy report based on the report GZEM180700372301. Only added new models C18-RK18W01A, NS-IC1ZBK0, NS-IC1ZPBK0 and updated some circuit.

According to the declaration from the applicant, models added in this report and model C18-RK18W01 in original report is only different in software and model name.

Update some circuit detail as below.

	Item:	Circuit in original report	Circuit updated in original report
1	OUT move down 0.5mm		
2	C1001 move down 1mm		
3	Version V1.2 update tp V1.3		



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Reviewed the difference above, it's acceptable to update circuit without further testing.
Therefore, original report data was kept in this report GZEM180700372303.

Remark for updated report GZEM180700372306

This report GZEM180700372306 was a supplement report based on original report GZEM180700372303, only added new model.

According to the declaration of the applicant, the model B07S2628R9 added in this report and model C18-RK18W01 in the original report were identical, with only difference being the model name.

Therefore original data was kept in this report GZEM180700372306.

▣ Remark for updated report GZEM180700372308:

Model No.: C18-RK18W01, C18-RK18W01A, NS-IC1ZBK0, NS-IC1ZPBK0, B07S2628R9, C18-RK18W01B

This test report GZEM180700372308 is an additional report based on and only valid with the original test report GZEM180700372306, just added one new model C18-RK18W01B and alternated the IC chip of switch and control board. Details were shown as below:

- 1) According to the declaration of the applicant, the Model C18-RK18W01B supplemented in this report and models in the original report were identical, with only difference being the control panel appearance as below shown:

For model C18-RK18W01:



For model C18-RK18W01A:



For model C18-RK18W01B:



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2) Added alternative IC chip of switch and control board:

Original(PN8126):



New (PN8046):



Considering to the alternated IC chip of switch and control board:, full test were performed on model C18-RK18W01 GZEM180700372308.

For original test data, please refer to GZEM180700372306.

3 Contents

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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: 2 wires × 1.5m unscreened AC mains cable
 Operating frequency: 22KHz

4.2 Description of Support Units

The EUT has been tested with an enamelled steel vessel of diameter of 180 mm with water.

4.3 Measurement Uncertainty

EMC

No.	Item	Measurement Uncertainty
1	Conducted Disturbance Voltage at Mains Terminals	±3.63dB (9kHz to 150kHz)
		±3.22dB (150kHz to 30MHz)
2	Disturbance Power	±3.78dB
3	Radiated Emissions	±5.0dB (30MHz-1GHz)
		±5.0dB (1GHz-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 C-Tick mark as a result of our NVLAP accreditation.

● **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 2.948 Listed Test Firm(Registration No.: 282399)**

SGS-CSTC Standards Technical Services 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. Registration 282399, May 31, 2002.

● **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, Jul 13, 2017.

● **Industry Canada (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-10449 and T-11179)**

The 10m Semi-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-10449 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 17025:2005, 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

5 Equipment List

Conducted Emissions at Mains Terminals (9kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Netwok	Rohde & Schwarz	ENV216	EMC0118	2020-01-10	2021-01-09
LISN	Rohde & Schwarz	ENV216	EMC2135	2019-09-16	2020-09-15
EMI Test Receiver	Rohde & Schwarz	ESCS30	EMC0506	2019-11-18	2020-11-17
Coaxial Cable	HangTianXing	2m	EMC0107	2018-09-20	2020-09-19
Voltage Probe	SGS-EMC	N/A	EMC0106	2019-05-10	2021-05-09
Conical Metal Housing	SGS-EMC	N/A	EMC0167	2020-04-19	2022-04-18
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A



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Radiated Emissions (Magnetic field Strength) (9kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2020-01-10	2021-01-09
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2020-01-10	2021-01-09
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Trilog Broadband Antenna 25MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	EMC2174	2018-09-06	2021-09-05
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Bi-log Type Antenna	Schaffner Chase	CBL6143	EMC0519	2017-06-01	2020-05-31
Horn Antenna 1GHz-18GHz	Rohde & Schwarz	HF906	EMC0518	2018-09-02	2021-09-01
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2020-01-10	2021-01-09
Amplifier	HP	8447F	EMC2065	2019-05-29	2020-05-28
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2019-11-18	2020-11-17
Active Loop Antenna	ETS-Lindgren	6502	EMC2190	2019-12-27	2021-12-26
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2020-01-10	2021-01-09
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2020-01-10	2021-01-09
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2020-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2019-11-18	2020-11-17
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2019-11-18	2020-11-17
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2019-07-16	2020-07-15
DMM	Fluke	73	EMC0007	2019-07-16	2020-07-15



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6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (9kHz-30MHz)

Test Requirement:	47 CFR Part 18
Test Method:	FCC OST/MP-5:1986
Frequency Range:	9kHz to 30MHz
Limit:	
0.009MHz – 0.05MHz	110dB(μV) quasi-peak
0.05MHz – 0.15MHz	90dB(μV)-80dB(μV) quasi-peak
0.15MHz – 0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5MHz – 5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5MHz – 30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (200Hz resolution bandwidth) 0.009M to 0.15MHz Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Pre test these a:heating at maximum power mode.

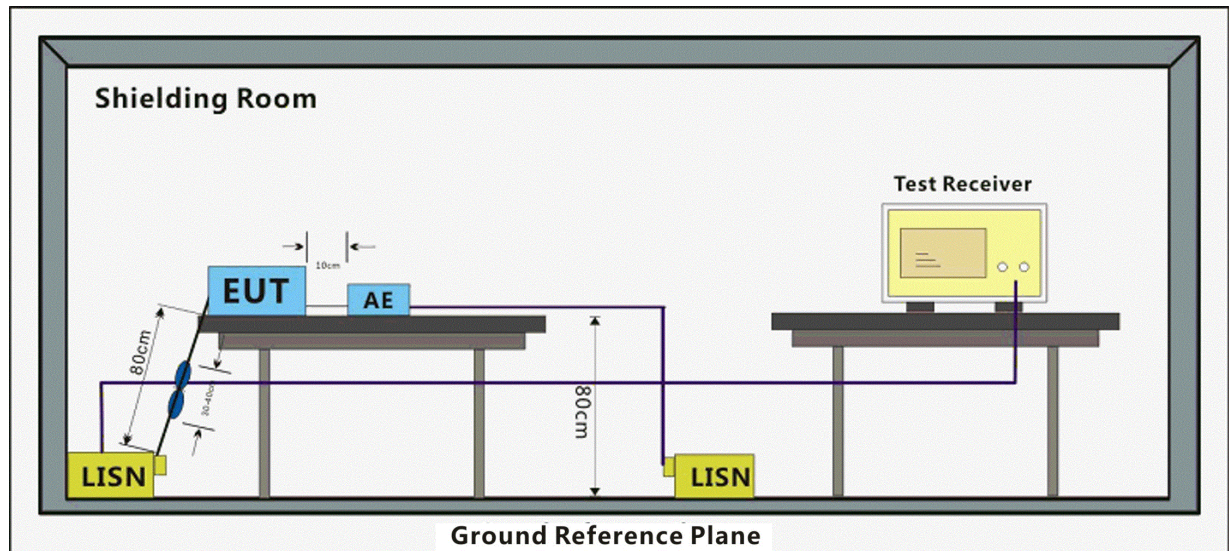
modes to find the b:heating at middle power mode.

worst case: c:heating at minimum power mode.

The worst case a:heating at maximum power mode.

for final test:

6.1.2 Test Setup Diagram



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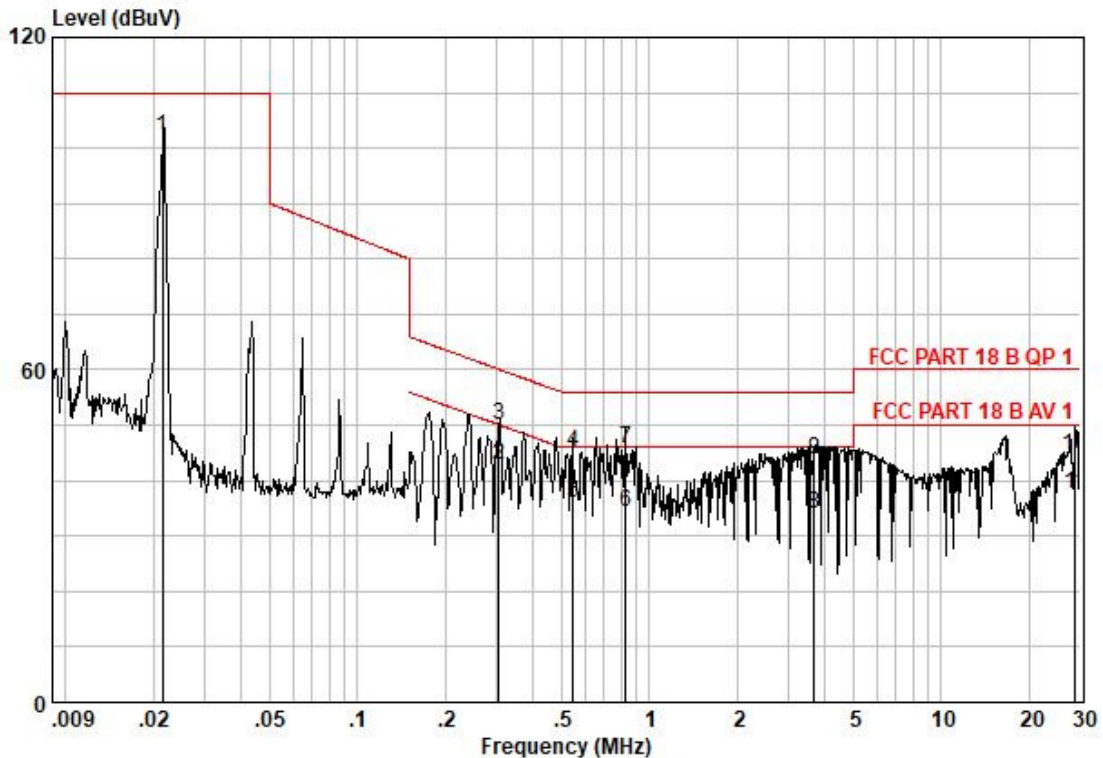
SGS-CSTC Standards Technical Services Co., Ltd. No.198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
 Guangzhou Branch Testing Center EEC Laboratory. 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

6.1.3 Measurement 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

Mode:a; Line:Live Line



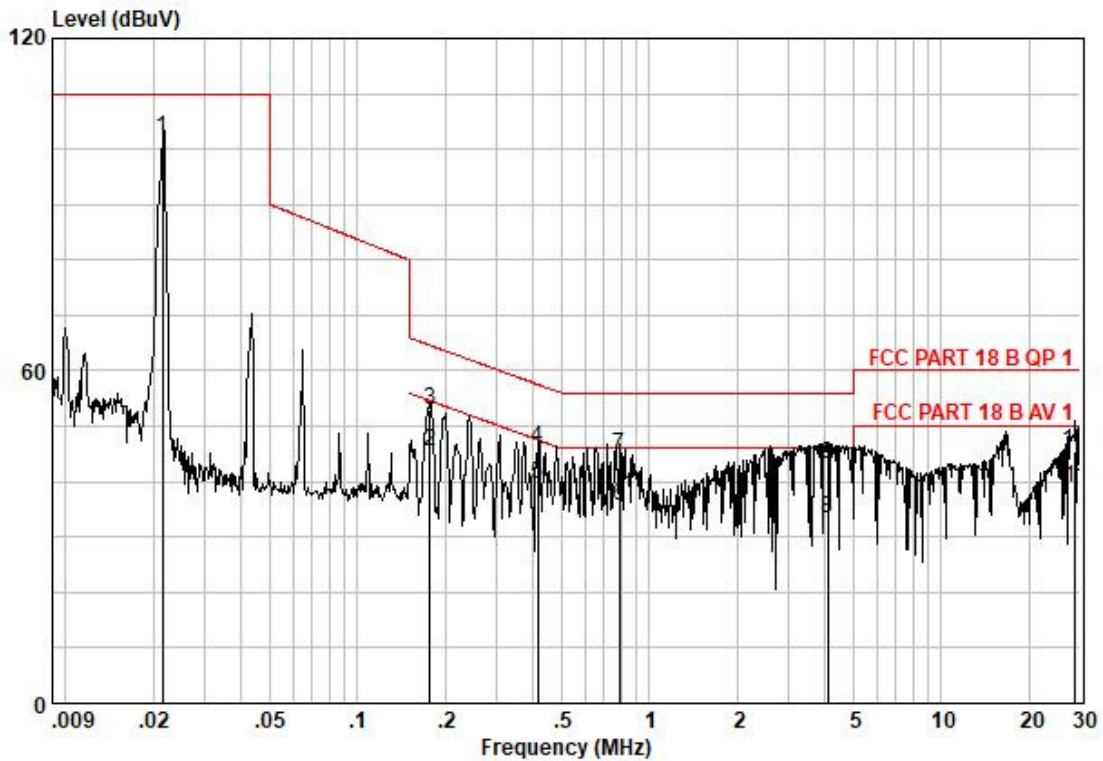
Pol :LIVE
No :
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.02	92.04	0.10	9.82	101.96	110.00	-8.04	QP
0.31	32.98	0.10	9.67	42.75	50.10	-7.35	AVERAGE
0.31	40.13	0.10	9.67	49.90	60.10	-10.20	QP
0.55	35.35	0.10	9.67	45.12	56.00	-10.88	QP
0.55	26.13	0.10	9.67	35.90	46.00	-10.10	AVERAGE
0.83	24.47	0.10	9.68	34.25	46.00	-11.75	AVERAGE
0.83	35.96	0.10	9.68	45.74	56.00	-10.26	QP
3.68	24.19	0.20	9.70	34.09	46.00	-11.91	AVERAGE
3.68	33.92	0.20	9.70	43.82	56.00	-12.18	QP
28.75	34.44	0.40	9.75	44.59	60.00	-15.41	QP
28.75	27.45	0.40	9.75	37.60	50.00	-12.40	AVERAGE



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Mode:a; Line:Neutral Line



Pol : NEUTRAL
No :
Model :

Frequency MHz	read level dBuV	Cable Loss dB	LISN Factor dB	Measured level dBuV	Limit Line dBuV	Over limit dB	Remark
0.02	92.10	0.10	9.83	102.03	110.00	-7.97	QP
0.18	35.86	0.10	9.60	45.56	54.64	-9.08	AVERAGE
0.18	43.32	0.10	9.60	53.02	64.64	-11.62	QP
0.41	36.42	0.10	9.59	46.11	57.55	-11.44	QP
0.41	29.72	0.10	9.59	39.41	47.55	-8.14	AVERAGE
0.79	26.05	0.10	9.61	35.76	46.00	-10.24	AVERAGE
0.79	34.94	0.10	9.61	44.65	56.00	-11.35	QP
4.09	23.49	0.20	9.63	33.32	46.00	-12.68	AVERAGE
4.09	33.21	0.20	9.63	43.04	56.00	-12.96	QP
28.75	34.96	0.40	10.10	45.46	60.00	-14.55	QP
28.75	28.34	0.40	10.10	38.84	50.00	-11.17	AVERAGE



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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
 Frequency Range: 9kHz to 30MHz
 Measurement Distance: 10m
 Detector: Peak for pre-scan, Average for the final result
 (200 Hz Resolution Bandwidth for 9 kHz to 150 kHz
 9 kHz Resolution Bandwidth for 150 kHz to 30 MHz)

Limit:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
Induction cooking ranges	Below 90 kHz	Any	1,500	430
	On or above 90 kHz	Any	300	430

For Induction cooking ranges and the operating frequency is below 90 kHz, the field strength limit is 1,500 $\mu\text{V/m}@30\text{m}$, i.e. $20\lg(1500)+20\lg(30/10)=63.52+9.54=73.06\text{dBuV/m}$ @ 10m distance.

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

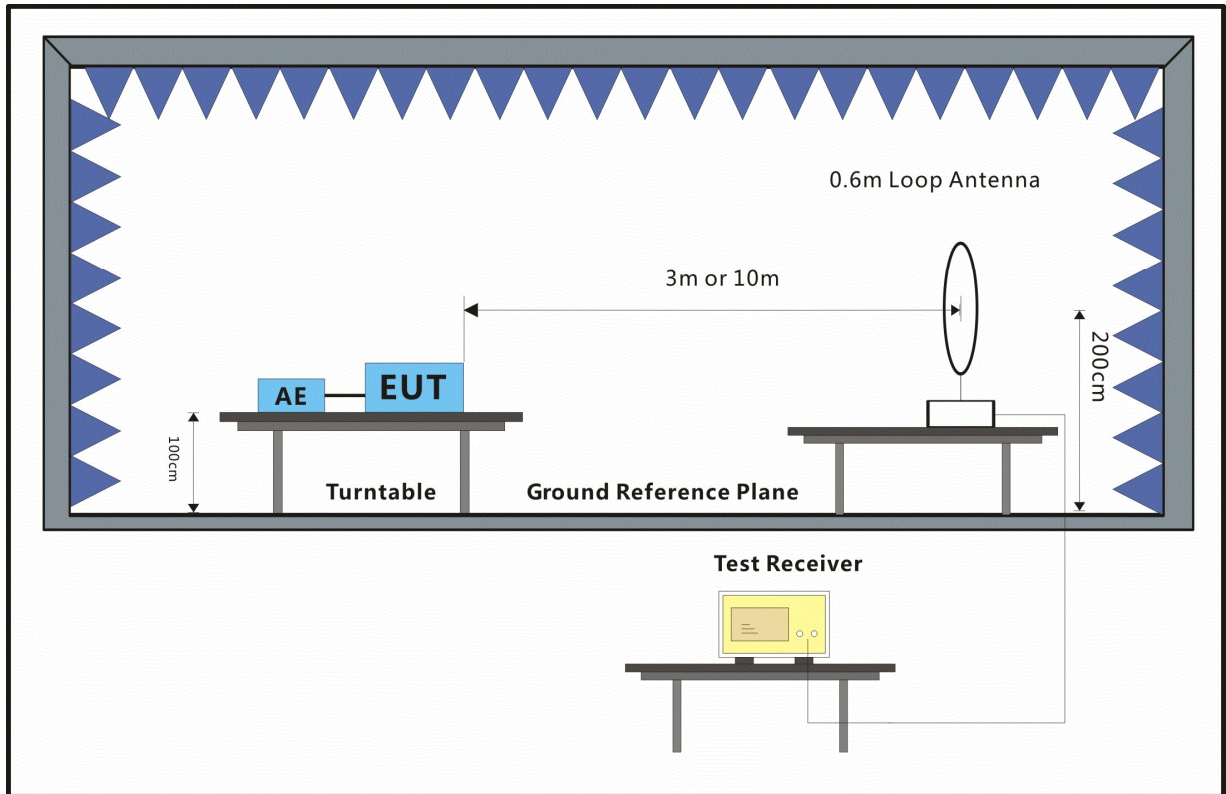
Pre test these modes to find the worst case:
 a:heating at maximum power mode.
 b:heating at middle power mode.
 c:heating at minimum power mode.

The worst case for final test:
 a:heating at maximum power mode.



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6.2.2 Test Setup Diagram



6.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

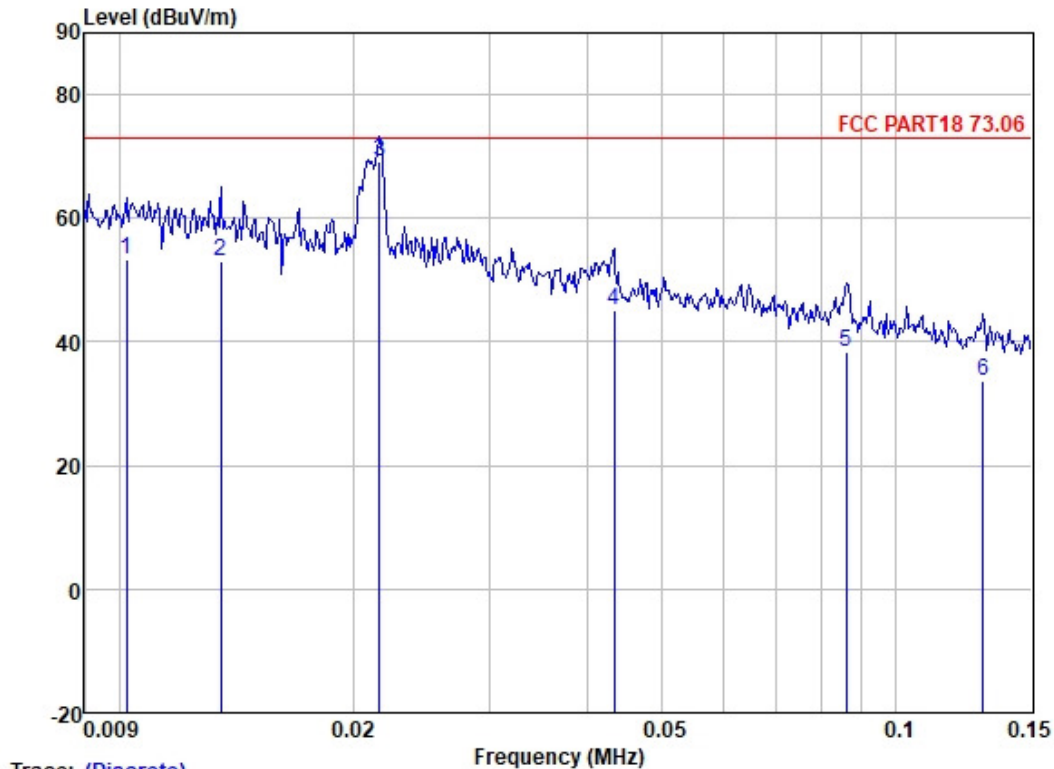
Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



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Mode:a; Polarization:Horizontal



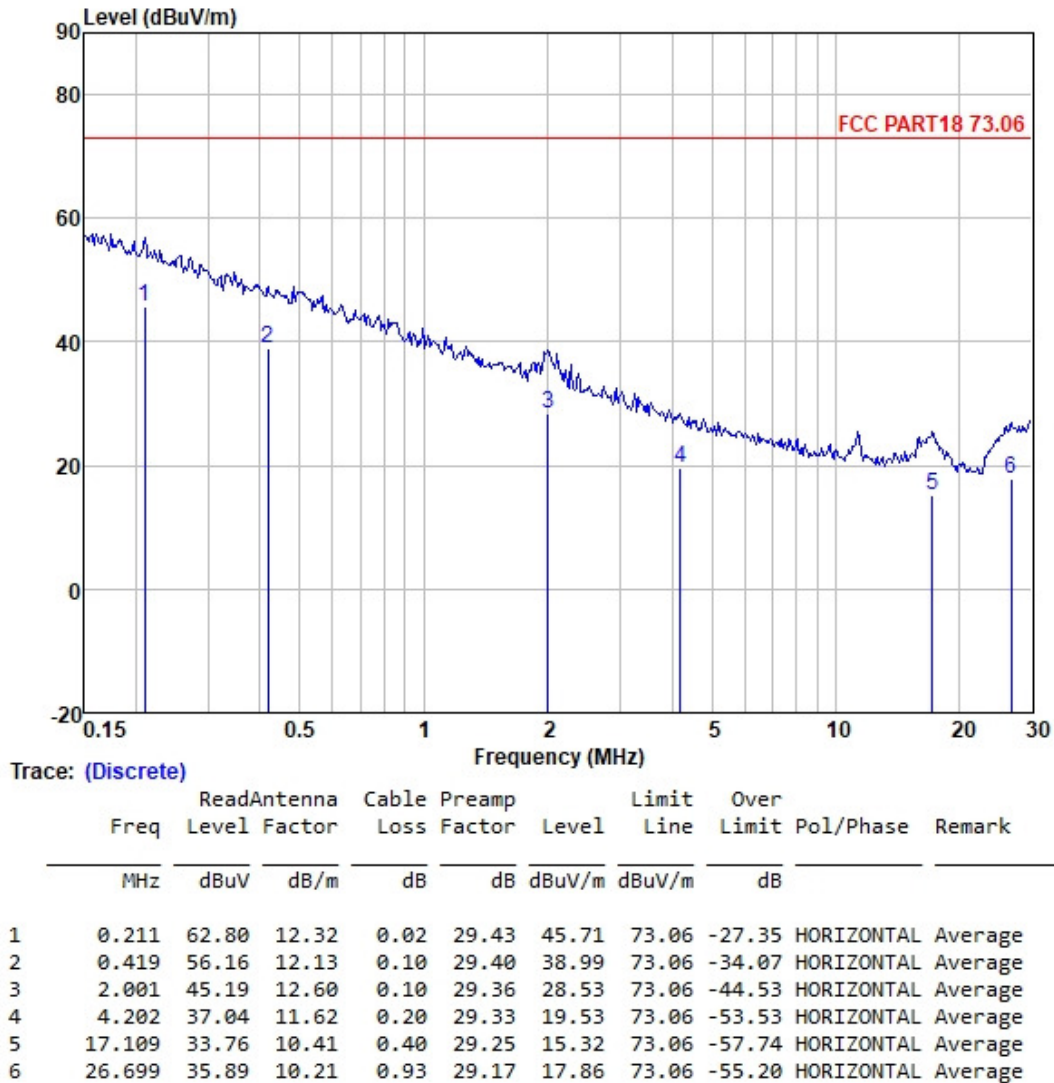
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.010	59.83	21.54	0.00	28.07	53.30	73.06	-19.76	HORIZONTAL	Average
2	0.013	61.64	19.66	0.00	28.14	53.16	73.06	-19.90	HORIZONTAL	Average
3	0.022	81.57	16.04	0.00	28.34	69.27	73.06	-3.79	HORIZONTAL	Average
4	0.043	61.54	12.78	0.00	29.19	45.13	73.06	-27.93	HORIZONTAL	Average
5	0.086	55.43	12.40	0.00	29.43	38.40	73.06	-34.66	HORIZONTAL	Average
6	0.130	50.71	12.40	0.00	29.45	33.66	73.06	-39.40	HORIZONTAL	Average



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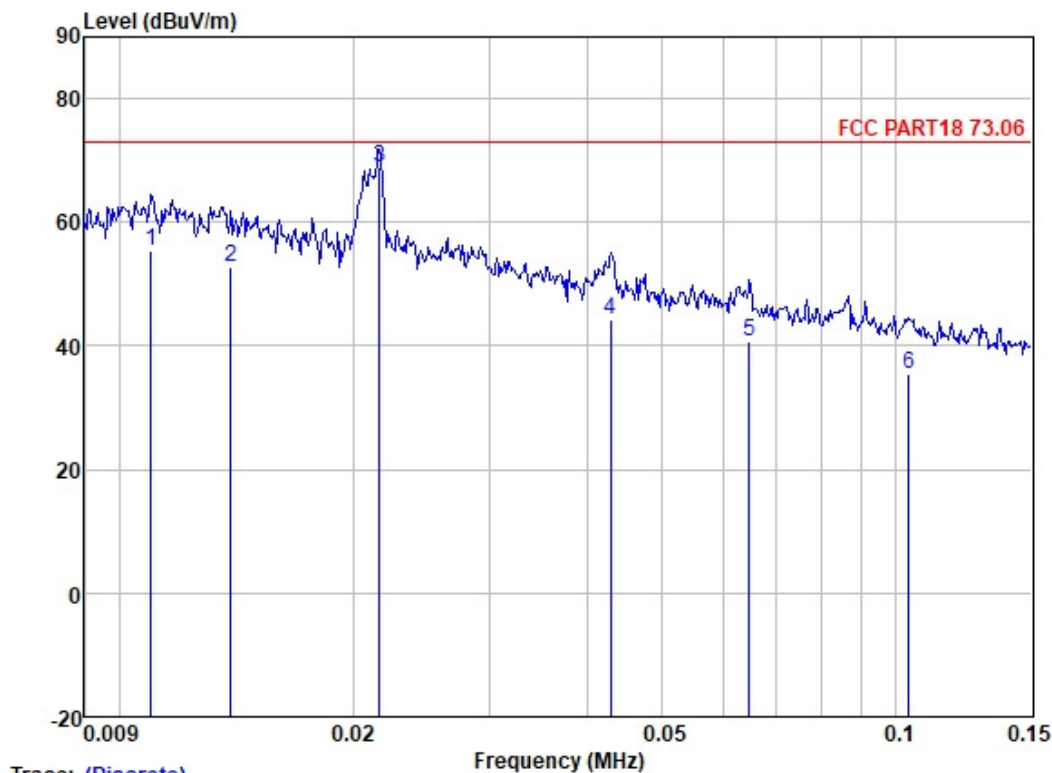
Mode:a; Polarization:Horizontal



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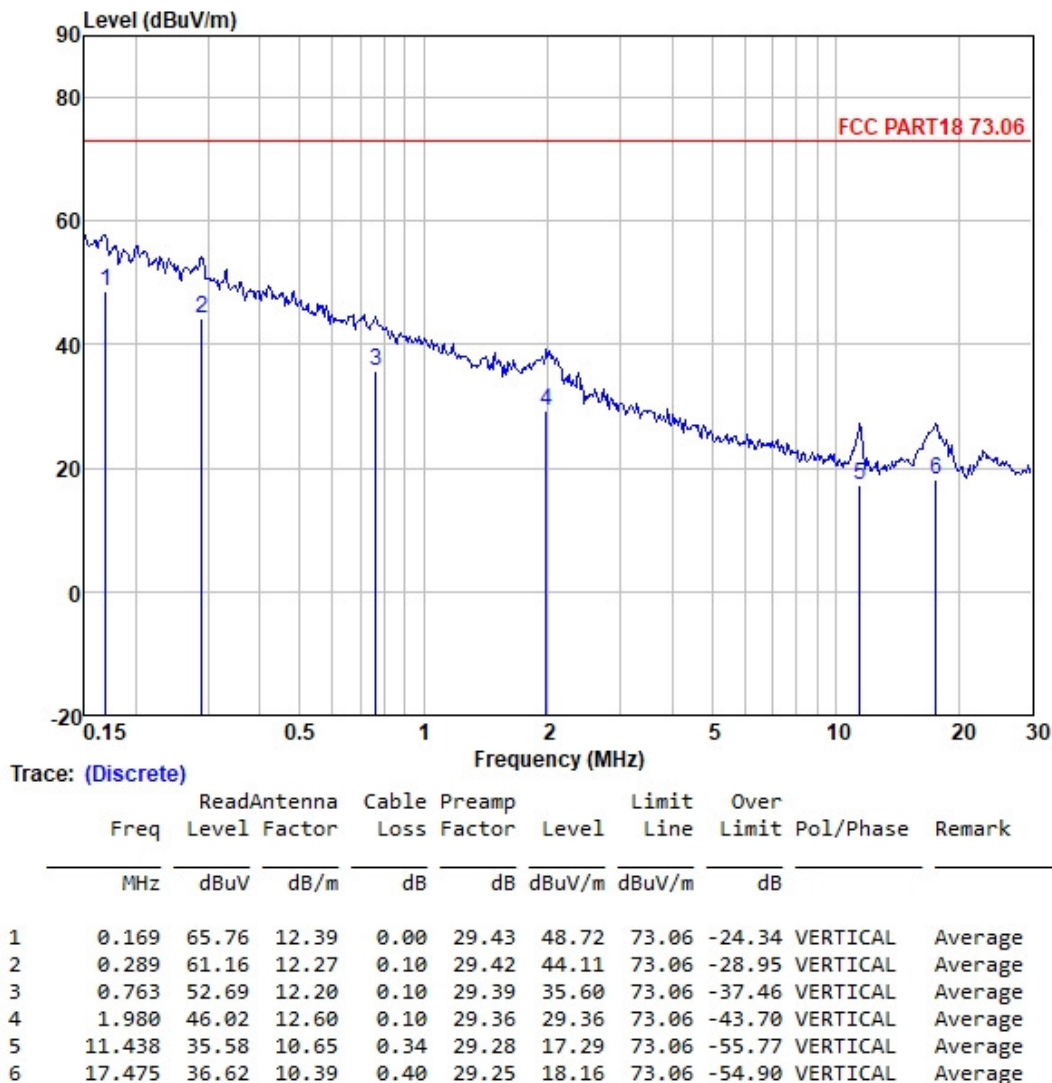
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.011	62.20	21.22	0.00	28.08	55.34	73.06	-17.72	VERTICAL	Average
2	0.014	61.58	19.32	0.00	28.15	52.75	73.06	-20.31	VERTICAL	Average
3	0.022	81.22	16.04	0.00	28.34	68.92	73.06	-4.14	VERTICAL	Average
4	0.043	60.59	12.82	0.00	29.18	44.23	73.06	-28.83	VERTICAL	Average
5	0.065	57.63	12.43	0.00	29.35	40.71	73.06	-32.35	VERTICAL	Average
6	0.104	52.58	12.40	0.00	29.46	35.52	73.06	-37.54	VERTICAL	Average



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