

Test Report

Report No. : MTi250109035-0101E1
Date of issue : 2025-07-21
Applicant : Etronicon (Zhejiang) Electronic Technologies
Co., Ltd.
Product : Wireless Power Charger
Model(s) : YN-42V15A
FCC ID : 2BQKT-YN-42V15A

Shenzhen Microtest Co., Ltd.

TEST REPORT

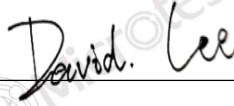
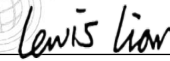
Report No.: MTi250109035-0101E1

Table of contents

1	General Description	4
1.1	Description of the EUT	4
1.2	Description of test modes	4
1.3	Environmental Conditions	5
1.4	Description of support units	5
1.5	Measurement uncertainty	5
2	Summary of Test Result	6
3	Test Facilities and accreditations	7
3.1	Test laboratory	7
4	List of test equipment	8
5	Emission Test Results (EMI)	9
5.1	Conducted Emissions on AC Power Line	9
5.2	Radiated Emissions (9kHz-30MHz)	12
5.3	Radiated Emissions (30MHz-1000MHz)	16
	Photographs of the test setup	20
	Photographs of the EUT	21

TEST REPORT

Report No.: MTi250109035-0101E1

Test Result Certification		
Applicant	Etronicon (Zhejiang) Electronic Technologies Co., Ltd.	
Applicant Address	No. 1 Building, No. 88, Binhe Road, Lin'an District, Hangzhou City, 311300 Zhejiang, P. R. China	
Manufacturer	Etronicon (Zhejiang) Electronic Technologies Co., Ltd.	
Manufacturer Address	No. 1 Building, No. 88, Binhe Road, Lin'an District, Hangzhou City, 311300 Zhejiang, P. R. China	
Factory	Etronicon (Zhejiang) Electronic Technologies Co., Ltd.	
Factory Address	No. 1 Building, No. 88, Binhe Road, Lin'an District, Hangzhou City, 311300 Zhejiang, P. R. China	
Product description		
Product name	Wireless Power Charger	
Trademark	Etronicon	
Model name	YN-42V15A	
Series Model(s)	N/A	
Standards	47 CFR Part 18	
Testing Information		
Date of test	2025-03-17 to 2025-06-17	
Test result	Pass	
Prepared by:	James Qin	
Reviewed by:	David Lee	
Approved by:	Lewis Lian	

TEST REPORT

Report No.: MTi250109035-0101E1

1 General Description

1.1 Description of the EUT

Product name:	Wireless Power Charger
Model name:	YN-42V15A
Series Model(s):	N/A
Model difference:	N/A
Electrical rating:	Input: 110V $\pm$ 20%, 220V $\pm$ 20%/ 32A Output: 700W $\pm$ 35W
Accessories:	N/A
Hardware version:	V1.0
Software version:	V1.0
Test sample(s) number:	MTi250109035-01-R002
RF specification	
Operating frequency range:	52 $\pm$ 0.5 kHz
Antenna(s) type:	Coil

1.2 Description of test modes

For test, the EUT has been pre-tested under the following test modes, Only the worst case data will be shown in the report.

No.	Emission test modes
Mode1	wrieless out

TEST REPORT

Report No.: MTi250109035-0101E1

1.3 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C ~ 35°C
Humidity:	20% RH ~ 75% RH
Atmospheric pressure:	98 kPa ~ 101 kPa

1.4 Description of support units

Support equipment list

Description	Model	Serial No.	Manufacturer
/	/	/	/

Support cable list

Description	Length (m)	From	To
/	/	/	/

1.5 Measurement uncertainty

Measurement	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	±3.1dB
Radiated emissions (9kHz~30MHz)	±4.3dB
Temperature	±1 °C
Humidity	± 5 %

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

TEST REPORT

Report No.: MTi250109035-0101E1

2 Summary of Test Result

No.	Item	Standard	Requirement	Result
1	Conducted Emissions on AC Power Line	47 CFR Part 18	18.307	Pass
2	Radiated Emissions (9kHz-30MHz)	47 CFR Part 18	18.305	Pass
3	Radiated Emissions (30MHz-1000MHz)	47 CFR Part 18	18.305	Pass

TEST REPORT

Report No.: MTi250109035-0101E1

3 Test Facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573
IC Registration No.:	21760
CABID:	CN0093

TEST REPORT

Report No.: MTi250109035-0101E1

4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
Conducted Emissions on AC Power Line						
1	EMI Test Receiver	Rohde&schwarz	ESCI3	101368	2025-03-13	2026-03-12
2	Artificial mains network	Schwarzbeck	NSLK 8127	183	2025-03-18	2026-03-17
3	Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100263	2025-03-18	2026-03-17
4	Artificial mains network	Schwarzbeck	NSLK 8127	183	2024-03-21	2025-03-20
5	Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100263	2024-03-20	2025-03-19
Radiated Emissions (9kHz-30MHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2025-03-14	2026-03-13
2	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03-23	2026-03-22
3	Amplifier	Hewlett-Packard	8447F	3113A06184	2025-03-18	2026-03-17
4	Amplifier	Hewlett-Packard	8447F	3113A06184	2024-03-20	2025-03-19
Radiated Emissions (30MHz-1000MHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2025-03-14	2026-03-13
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2025-05-23	2027-05-22
3	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2023-06-11	2025-06-10
4	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03-23	2026-03-22
5	Amplifier	Hewlett-Packard	8447F	3113A06184	2025-03-18	2026-03-17
6	Amplifier	Hewlett-Packard	8447F	3113A06184	2024-03-20	2025-03-19

TEST REPORT

Report No.: MTi250109035-0101E1

5 Emission Test Results (EMI)

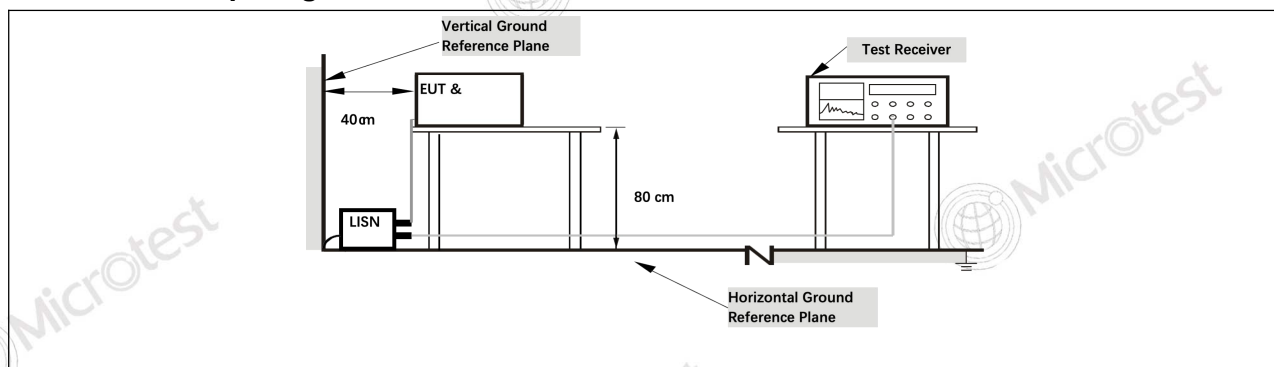
5.1 Conducted Emissions on AC Power Line

Test Requirement:	18.307		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dBμV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56 *	56 to 46 *
	0.5-5	56	46
	5-30	60	50
	*Decreases with the logarithm of the frequency.		
Test Method:	MP-5 Clause 7		
Procedure:	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. Remark: Level= Read Level+ Cable Loss+ LISN Factor		

5.1.1 E.U.T. Operation:

Operating Environment:			
Temperature:	26 °C	Humidity:	57 %
Pre test mode:		Atmospheric Pressure:	100 kPa
Final test mode:		Mode1	

5.1.2 Test Setup Diagram:

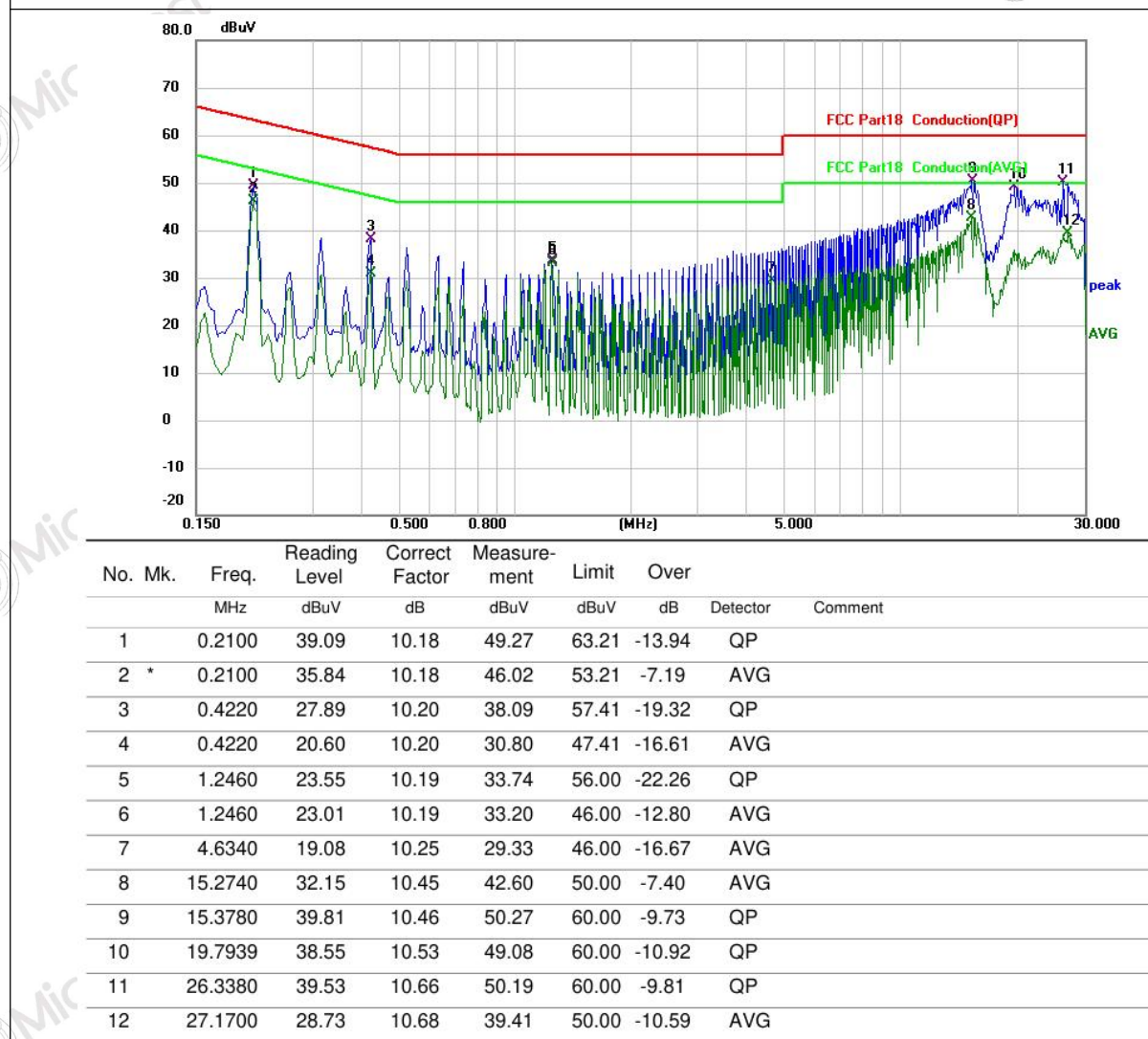


TEST REPORT

Report No.: MTi250109035-0101E1

5.1.3 Test Data:

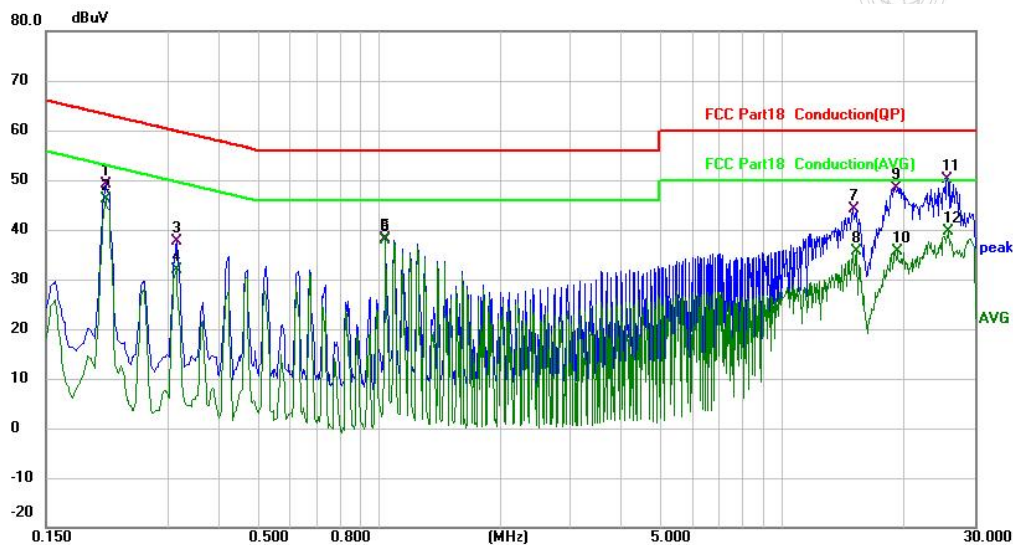
Mode1 / Line: Line



TEST REPORT

Report No.: MTi250109035-0101E1

Mode1 / Line: Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2100	39.00	10.19	49.19	63.21	-14.02	QP	
2	*	0.2100	35.89	10.19	46.08	53.21	-7.13	AVG	
3		0.3140	27.43	10.19	37.62	59.86	-22.24	QP	
4		0.3140	21.62	10.19	31.81	49.86	-18.05	AVG	
5		1.0380	27.91	10.20	38.11	56.00	-17.89	QP	
6		1.0380	27.64	10.20	37.84	46.00	-8.16	AVG	
7		15.0620	33.70	10.45	44.15	60.00	-15.85	QP	
8		15.2700	25.09	10.45	35.54	50.00	-14.46	AVG	
9		19.0660	37.97	10.52	48.49	60.00	-11.51	QP	
10		19.2700	25.13	10.52	35.65	50.00	-14.35	AVG	
11		25.6100	39.45	10.66	50.11	60.00	-9.89	QP	
12		25.8180	28.91	10.66	39.57	50.00	-10.43	AVG	

TEST REPORT

Report No.: MTi250109035-0101E1

5.2 Radiated Emissions (9kHz-30MHz)

Test Requirement:	18.305				
Test Limit:	Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
	Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500	25	300
			500 or more	$25 \times \text{SQRT}(\text{power}/500)$	300 (1)
		Any non-ISM frequency	Below 500	15	300
			500 or more	$15 \times \text{SQRT}(\text{power}/500)$	300 (1)
	Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz	Any	10	1,600
		Above 5,725 MHz	Any	(2)	(2)
	Medical diathermy	Any ISM frequency	Any	25	300
		Any non-ISM frequency	Any	15	300
	Ultrasonic	Below 490 kHz	Below 500	$2,400/F(\text{kHz})$	300
			500 or more	$2,400/F(\text{kHz}) \times \text{SQRT}(\text{power}/500)$	300 (3)
		490 to 1,600 kHz	Any	$24,000/F(\text{kHz})$	30
		Above 1,600 kHz	Any	15	30
	Induction cooking ranges	Below 90 kHz	Any	1,500	30 (4)
		On or above 90 kHz	Any	300	30 (4)
	(1) Field strength may not exceed 10 $\mu\text{V}/\text{m}$ at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts. (2) Reduced to the greatest extent possible. (3) Field strength may not exceed 10 $\mu\text{V}/\text{m}$ at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts. (4) Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.				
	Note:				

TEST REPORT

Report No.: MTi250109035-0101E1

	Max power is 735W Limit= $20\lg(25 \cdot \text{SQRT}(\text{power}/500)) + 20\lg(300/3)$ @ 3m distance. The limit for radiated test was performed according to; The tighter limit applies at the band edges; Emission level (dBuV/m) = $20\lg$ Emission level (uV/m), 3m Emission level = 300m Emission level + $20\lg(300\text{m}/3\text{m})$;
Test Method:	MP-5 Clause 5/6
Procedure:	Frequency range: 9KHz-30MHz An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by loop antenna with 2 orthogonal polarities. The red line show in graphic is the limit in standard used in this section. Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

5.2.1 E.U.T. Operation:

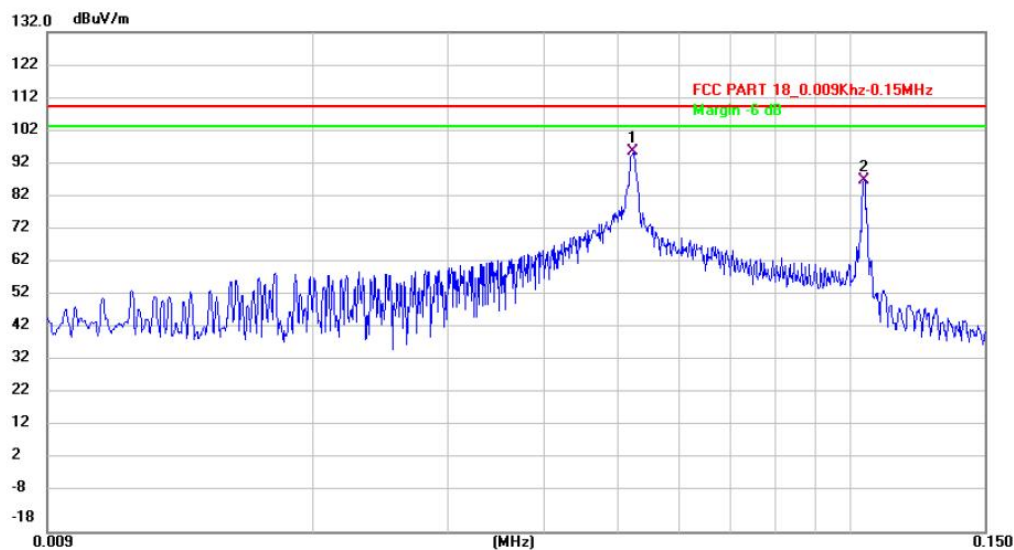
Operating Environment:					
Temperature:	22.4 °C	Humidity:	53 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

TEST REPORT

Report No.: MTi250109035-0101E1

5.2.2 Test Data:

Mode1 / Polarization: Horizontal

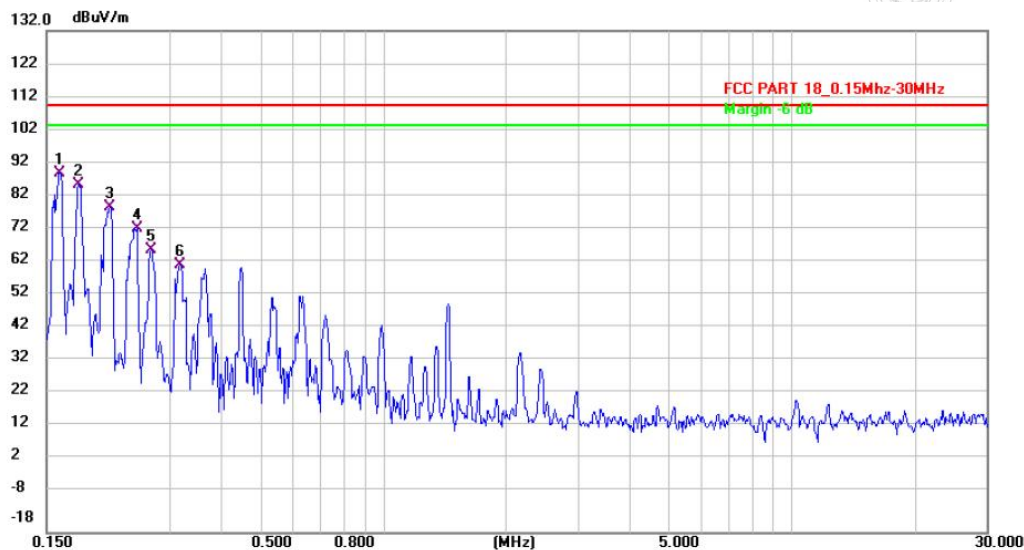


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1	*	0.0522	75.27	20.78	96.05	109.63	-13.58	QP
2		0.1043	66.95	20.53	87.48	109.63	-22.15	QP

TEST REPORT

Report No.: MTi250109035-0101E1

Mode1 / Polarization: Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	0.1615	68.90	20.62	89.52	109.63	-20.11	QP	
2		0.1796	65.55	20.67	86.22	109.63	-23.41	QP	
3		0.2139	58.51	20.74	79.25	109.63	-30.38	QP	
4		0.2494	52.21	20.83	73.04	109.63	-36.59	QP	
5		0.2700	45.69	20.87	66.56	109.63	-43.07	QP	
6		0.3183	40.97	20.99	61.96	109.63	-47.67	QP	

TEST REPORT

Report No.: MTi250109035-0101E1

5.3 Radiated Emissions (30MHz-1000MHz)

Test Requirement:	18.305				
Test Limit:	Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
	Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500	25	300
			500 or more	25 × SQRT(power/500)	300 (1)
		Any non-ISM frequency	Below 500	15	300
			500 or more	15 × SQRT(power/500)	300 (1)
	Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz	Any	10	1,600
		Above 5,725 MHz	Any	(2)	(2)
	Medical diathermy	Any ISM frequency	Any	25	300
		Any non-ISM frequency	Any	15	300
	Ultrasonic	Below 490 kHz	Below 500	2,400/F(kHz)	300
			500 or more	2,400/F(kHz) × SQRT(power/500)	300 (3)
		490 to 1,600 kHz	Any	24,000/F(kHz)	30
		Above 1,600 kHz	Any	15	30
	Induction cooking ranges	Below 90 kHz	Any	1,500	30 (4)
		On or above 90 kHz	Any	300	30 (4)
	(1) Field strength may not exceed 10 μV/m at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts. (2) Reduced to the greatest extent possible. (3) Field strength may not exceed 10 μV/m at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts. (4) Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.				
	Note:				

TEST REPORT

Report No.: MTi250109035-0101E1

	Max power is 735W Limit=20lg(25*SQRT(power/500))+20lg(300/3) @ 3m distance. The limit for radiated test was performed according to; The tighter limit applies at the band edges; Emission level (dBuV/m) = 20log Emission level (uV/m), 3m Emission level = 300m Emission level + 20log(300m/3m);
Test Method:	MP-5 Clause 5/6
Procedure:	Frequency range: 30MHz-1000MHz 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. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

5.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.4 °C	Humidity:	53 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1				
Final test mode:	Mode1				

TEST REPORT

Report No.: MTi250109035-0101E1

5.3.2 Test Data:

Mode1 / Polarization: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		43.8119	40.12	-7.56	32.56	69.63	-37.07	QP	
2		81.7831	48.23	-12.64	35.59	69.63	-34.04	QP	
3	*	102.7192	46.51	-7.88	38.63	69.63	-31.00	QP	
4		112.9196	45.44	-7.96	37.48	69.63	-32.15	QP	
5		141.8262	46.79	-9.79	37.00	69.63	-32.63	QP	
6		221.3917	40.22	-8.49	31.73	69.63	-37.90	QP	

TEST REPORT

Report No.: MTi250109035-0101E1

Mode1 / Polarization: Vertical



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	44.5867	42.23	-7.48	34.75	69.63	-34.88	QP	
2	49.1865	41.74	-7.25	34.49	69.63	-35.14	QP	
3 *	62.6505	46.36	-9.72	36.64	69.63	-32.99	QP	
4	72.5913	44.69	-11.44	33.25	69.63	-36.38	QP	
5	93.4402	42.79	-11.52	31.27	69.63	-38.36	QP	
6	102.0013	38.63	-7.95	30.68	69.63	-38.95	QP	

TEST REPORT

Report No.: MTi250109035-0101E1

Photographs of the test setup

Refer to Appendix - Test Setup Photos

TEST REPORT

Report No.: MTi250109035-0101E1

Photographs of the EUT

Refer to Appendix - EUT Photos

TEST REPORT

Report No.: MTi250109035-0101E1

Statement

1. This report is invalid without the seal and signature of the laboratory.
2. The test results of this report are only responsible for the samples submitted. Client shall be responsible for representativeness of the sample and authenticity of the material.
3. The report shall not be partially reproduced without the written consent of the Laboratory.
4. This report is invalid if transferred, altered or tampered with in any form without authorization.
5. The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.
6. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

***** END OF REPORT *****