



EUROFINS PRODUCT TESTING SERVICE (SHANGHAI) CO., LTD.

EMC TEST- REPORT

TEST REPORT NUMBER: EFSH13020317-IE-01-E01-A4



Eurofins Product Testing Service (Shanghai) Co., Ltd.
No.395 West Jiangchang Road, Jing'an District, Shanghai,
200436, P.R. China

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Page 1 of 43

TABLE OF CONTENTS

1 Contents

1	Contents	2
2	General Information	3
2.1	Notes	3
2.2	Testing laboratory	4
2.3	Details of approval holder	5
2.4	Application details	5
2.5	EUT Information	5
2.6	Test standards	6
3	Technical test	7
3.1	Summary of test results	7
3.2	Test environment	7
3.3	Test equipment utilized	8
3.4	Test results	9
4	Emission Test	10
4.1	Conducted Emission	10
4.2	Disturbance power	21
4.3	Voltage Changes, Voltage Fluctuations and Flicker	27
5	Test Setup Photos	29
6	EUT Photos	31
7	Amendment 1	43
8	Amendment 2	43
9	Amendment 3	44
10	Amendment 4	44

2 General Information

2.1 Notes


The results of this test report relate exclusively to the item tested as specified in chapter "Description of test item" and are not transferable to any other test items.

Eurofins Product Testing Service (Shanghai) Co., Ltd. is not responsible for any generalisations and conclusions drawn from this report. Any modification of the test item can lead to invalidity of test results and this test report may therefore be not applicable to the modified test item.


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Operator:

2018-01-23		Perry Li / Testing Engineer	
Date	Eurofins-Lab.	Name / Title	Signature

Technical responsibility for area of testing:

2018-01-23		Stefan Zhao / Project Engineer	
Date	Eurofins	Name / Title	Signature

Test Report No.: EFSH13020317-IE-01-E01-A4

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2.2 Testing laboratory

Eurofins Product Testing Service (Shanghai) Co., Ltd.

No.395 West Jiangchang Road, Jing'an District, Shanghai, 200436, P.R. China

Telephone : +86-21-61819181

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Test location, where different:

Test Report No.: EFSH13020317-IE-01-E01-A4

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2.3 Details of approval holder

Name :
Address :
Telephone : ./.
Fax : ./.

2.4 Application details

Date of receipt of application : 2015-12-14
Date of receipt of test item : 2013-02-20
Date of test : 2013-02-20 to 2016-05-09
Amendment 1 : 2016-01-15
Amendment 2 : 2016-04-05
Amendment 3 : 2016-05-09
Amendment 4 : 2018-01-23 (Date of test: N/A)

2.5 EUT Information

Product type : Hand-held Blender
Model name : YW-0123C, YW-0123D, YW-0123E, YW-0123F, MX01,
YW-0123DN
Brand name : Langwei
Serial number : ./.
Ratings : 220-240V~, 50Hz, Class II for all models
YW-0123C: 200W,
YW-0123D, YW-0123DN, YW-0123E, YW-0123F, MX01: 170W
Test voltage : 230V~, 50Hz
Additional information :

The appliances covered by this report are hand-held blenders.

YW-0123D, YW-0123E and YW-0123F use the same motor of 170W and they have similar appearance, YW-0123D, YW-0123F has one switch knob, while YW-0123E has two.

YW-0123C use the motor of 200W, it has different appearance compared with other models.

MX01 is identical with YW-0123F except for different name of model.

Model YW-0123C and YW-0123F were selected to do all tests and the most unfavorable results were recorded.

See page 43 for Amendment 1 and Amendment 2.

See page 44 for Amendment 3 and Amendment 4.

2.6 Test standards

Technical standard :

EN 55014-1: 2006+A1: 2009+A2: 2011

EN 55014-2: 1997+A1: 2001+A2: 2008

EN 55014-2: 2015

EN 61000-3-2: 2014

EN 61000-3-3: 2013

3 Technical test

3.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.



or

The deviations as specified were ascertained in the course of the tests performed.



3.2 Test environment

Temperature	:	20	...	25°C
Relative humidity content	:	30	...	60%
Air pressure	:	100	...	103kPa

3.3 Test equipment utilized

Measurement Equipment List				
No.	Name:	Type:	Manufacturer:	Cal due date:
1	EMI test receiver	ESCI	R&S	2016-11-27
2	Single phase Harmonics & Flicker analyser	PACS-1	California Instruments	2016-11-27
3	AC Power Source	5001ix	California Instruments	2016-11-27
4	Coupling/Decoupling Network	L 801 M2/M3	Luethi	2016-11-27
5	Ultra Compact Simulator	UCS 500N7	EMTEST	2016-11-27
6	ESD	NSG 437	TESEQ	2016-11-27
7	Current transformer	MC2630	EMTEST	2016-11-27
8	Motorized variac	MV2616	EMTEST	2016-11-27
9	Continuous wave simulator	CWS500N1	EMTEST	2016-11-27
10	Magnetic field coil	MS100	EMTEST	2016-11-27
11	Current transformer	MC26100	EMTEST	2016-11-27
12	Artificial mains	ENV216	R&S	2016-11-27
13	Click analyser	CL55C	AFJ	2016-09-03
14	Absorbing clamp	MDS21	Luethi	2016-11-27
15	EM clamp	EM101	Luethi	2016-11-27
16	Oscilloscope	TDS3012C	Tektronix	2016-10-14

3.4 Test results

☒ 1st test

☐ test after modification

☐ production test

Test case	Subclause	Required	Test passed	Test failed
Conducted Emission	Clause 4.1.1 of EN 55014-1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Disturbance power	Clause 4.1.2 of EN 55014-1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Radiated disturbance	Clause 4.1.2 of EN 55014-1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discontinuous disturbance	Clause 4.2 of EN 55014-1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Harmonic Current Emissions	EN 61000-3-2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Voltage Changes, Voltage Fluctuations and Flicker	EN 61000-3-3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electrostatic Discharge	Clause 5.1 of EN 55014-2 & IEC 61000-4-2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electrical Fast Transients	Clause 5.2 of EN 55014-2 & IEC 61000-4-4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Injected currents (RF continues conducted)	Clause 5.3 & 5.4 of EN 55014-2 & IEC 61000-4-6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radio frequency electromagnetic fields	Clause 5.5 of EN 55014-2 & IEC 61000-4-3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surge immunity	Clause 5.6 of EN 55014-2 & IEC 61000-4-5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Voltage dips and Interruption	Clause 5.7 of EN 55014-2 & IEC 61000-4-11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- Note 1: The additional margin(0-10dB) was meet in the frequency range 200MHz to 300MHz in Disturbance power test(absorbing clamp), and the EUT did not contained any circuit with clock frequency more than 30MHz, so the EUT was compliant with the Radiated disturbance test (300MHz-1GHz) without test.
- Note 2: The click rate was less than 5, and the click duration was less than 10ms. So it is deemed to comply with Discontinuous disturbance test.
- Note 3: The category I equipment fulfils the immunity requirement without testing.
- Note 4: The EUT is deemed to conform to the harmonic current limits without further testing according to Annex C.13 of EN 61000-3-2.

Test Report No.: EFSH13020317-IE-01-E01-A4

Eurofins Product Testing Service (Shanghai) Co., Ltd.
No.395 West Jiangchang Road, Jing'an District, Shanghai, 200436, P.R. China

4 Emission Test

4.1 Conducted Emission

This clause lays down the general requirements for the measurement of disturbance voltage produced at the terminals of apparatus.

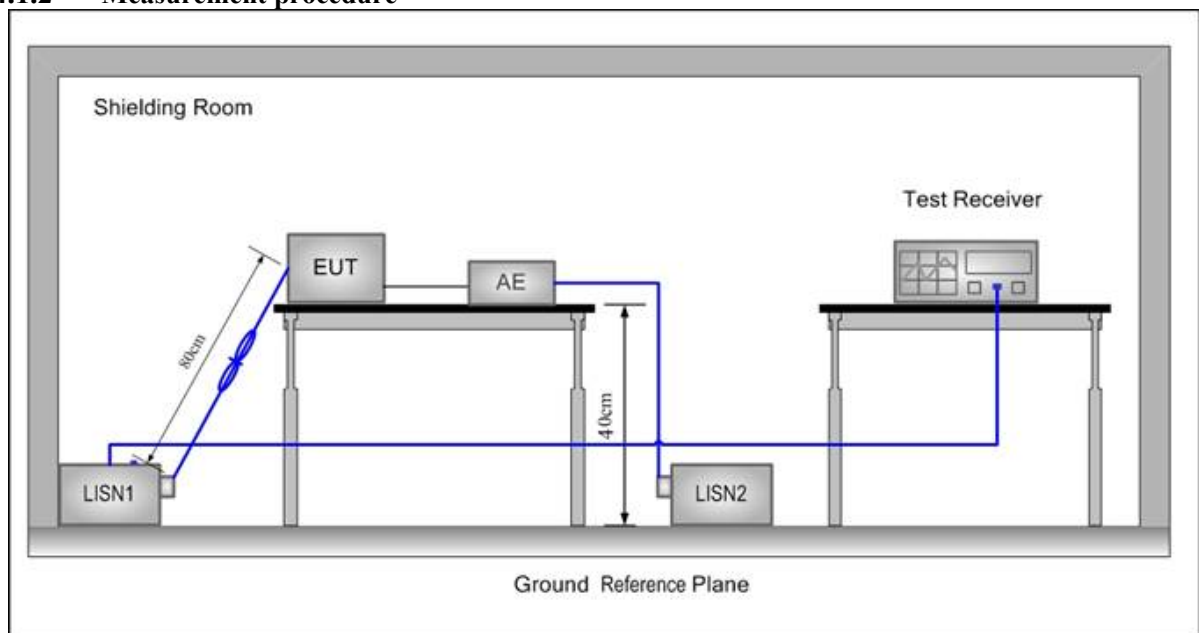
4.1.1 Limits

Frequency range MHz	At mains terminals dB (μV)	
	Quasi-peak Limit	Average Limit
0.15 to 0.50	66 to 56	59 to 46
0.50 to 5	56	46
5 to 30	60	50

Note1: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 30 MHz.

Note2: The lower limit is applicable at the transition frequency.

4.1.2 Measurement procedure



1. The mains terminal disturbance voltage was measured with the EUT in a shielded room.
2. The EUT was connected to AC power source through a LISN (Line Impedance Stabilization Network) which provides a $(50 \mu H + 5 \Omega) \parallel 50 \Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN, which was bonded to the ground reference plane in the same way as the LISN for the unit being measured.
3. The tabletop EUT was placed upon a non-metallic table 0.4m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.

Test Report No.: EFSH13020317-IE-01-E01-A4

Eurofins Product Testing Service (Shanghai) Co., Ltd.
No.395 West Jiangchang Road, Jing'an District, Shanghai, 200436, P.R. China

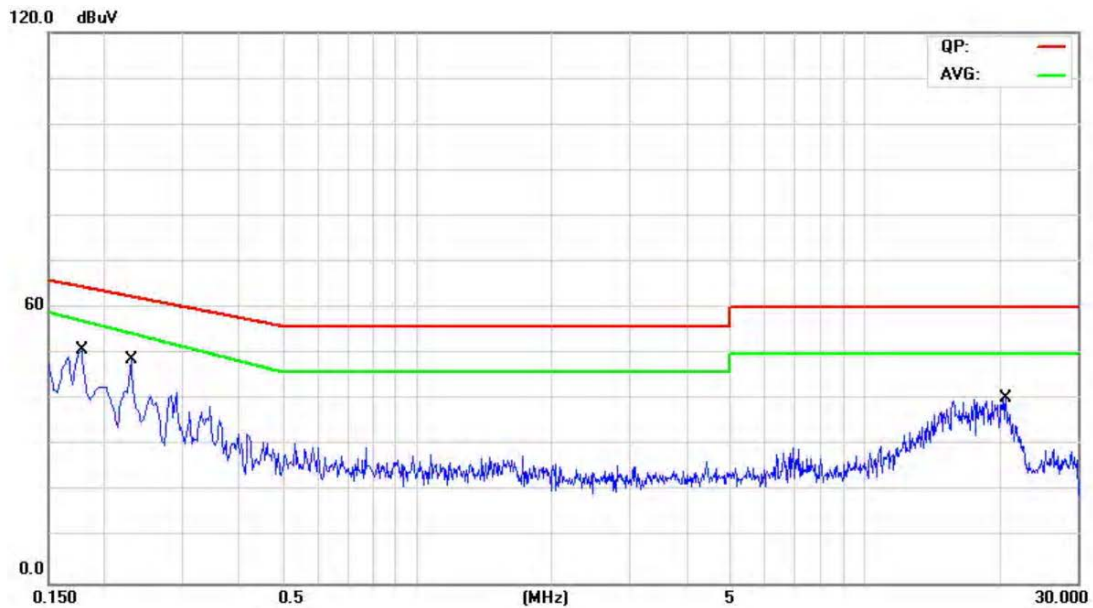
4. According to a pre-test at 160kHz, the worst voltage was selected for final test. Before get the final emission results with quasi-peak(QP) detector and average(AVG) detector, a pre-scan was performed with the peak(PK) and average(AVG) detector to find out the maximum emission data plots of the EUT.

4.1.3 Measurement uncertainty

$U_{lab}(cond) = 2.5dB$ at 95% level of confidence, $k=2$

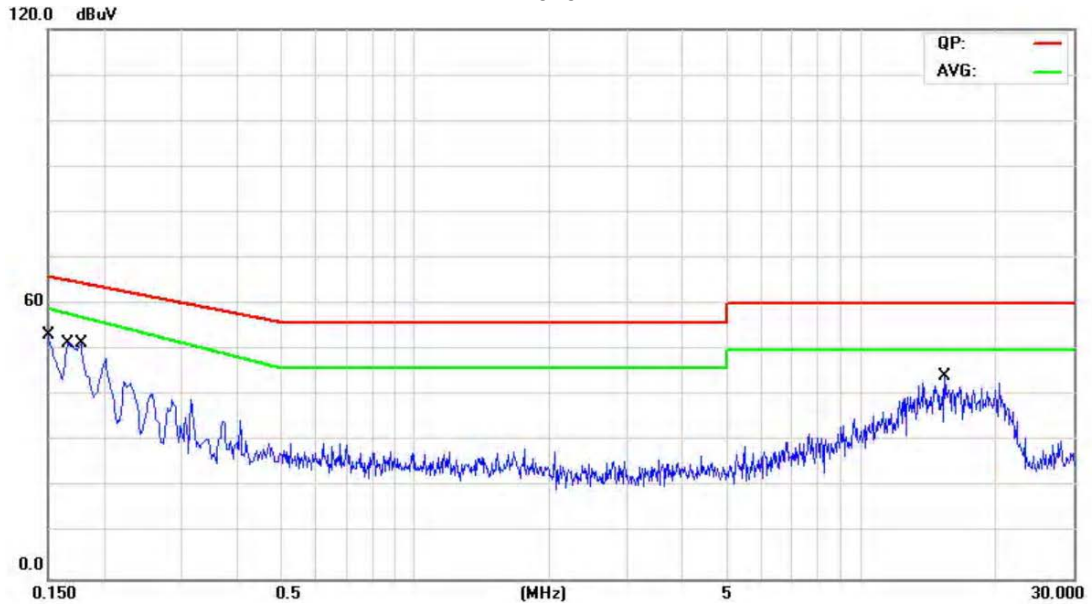
4.1.4 Results -Measurement Data

YW-0123C
Live Line:
Level



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			Detector
			dBuV	dB	dBuV	dBuV	dB	
1	*	0.1780	34.15	10.01	44.16	64.58	-20.42	QP
2		0.1780	21.81	10.01	31.82	57.15	-25.33	AVG
3		0.2300	28.28	9.85	38.13	62.45	-24.32	QP
4		0.2300	17.47	9.85	27.32	54.38	-27.06	AVG
5		20.7940	19.28	10.23	29.51	60.00	-30.49	QP
6		20.7940	8.43	10.23	18.66	50.00	-31.34	AVG

Neutral Line:
Level



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			Detector
			dBuV	dB	dBuV	dBuV	dB	
1	*	0.1500	39.77	10.18	49.95	66.00	-16.05	QP
2		0.1500	28.39	10.18	38.57	59.00	-20.43	AVG
3		0.1660	36.92	10.08	47.00	65.16	-18.16	QP
4		0.1660	25.86	10.08	35.94	57.91	-21.97	AVG
5		0.1780	35.14	10.01	45.15	64.58	-19.43	QP
6		0.1780	24.01	10.01	34.02	57.15	-23.13	AVG
7		15.3900	23.10	9.84	32.94	60.00	-27.06	QP
8		15.3900	10.29	9.84	20.13	50.00	-29.87	AVG

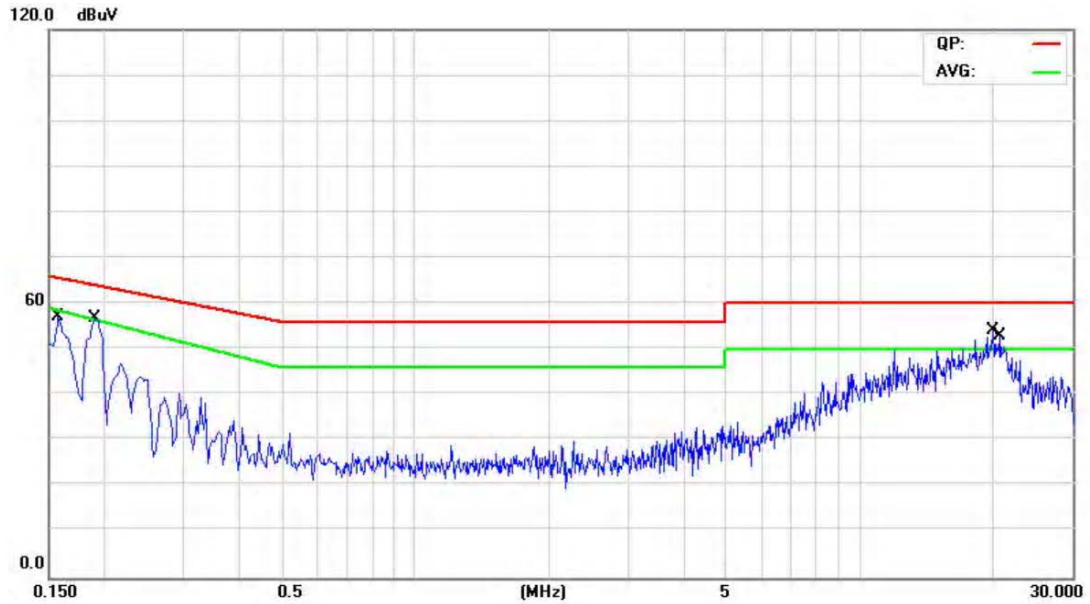
Test Report No.: EFSH13020317-IE-01-E01-A4

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YW-0123F

Live Line:

Level

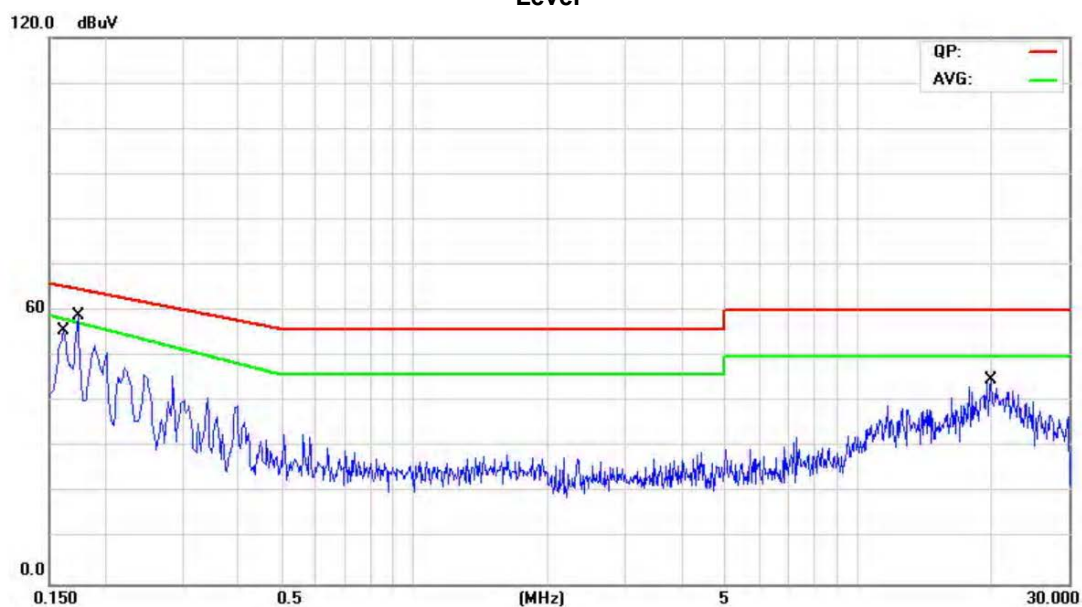


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			Detector
			dBuV	dB	dBuV	dBuV	dB	
1	*	0.1580	40.72	10.13	50.85	65.57	-14.72	QP
2		0.1580	25.92	10.13	36.05	58.44	-22.39	AVG
3		0.1900	37.81	9.93	47.74	64.04	-16.30	QP
4		0.1900	22.88	9.93	32.81	56.45	-23.64	AVG
5		19.8580	32.64	10.09	42.73	60.00	-17.27	QP
6		19.8580	15.73	10.09	25.82	50.00	-24.18	AVG
7		20.6180	31.81	10.21	42.02	60.00	-17.98	QP
8		20.6180	14.94	10.21	25.15	50.00	-24.85	AVG

Test Report No.: EFSH13020317-IE-01-E01-A4

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No.395 West Jiangchang Road, Jing'an District, Shanghai, 200436, P.R. China

**Neutral Line:
Level**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1620	38.31	10.11	48.42	65.36	-16.94	QP
2		0.1620	22.53	10.11	32.64	58.17	-25.53	AVG
3		0.1740	37.12	10.03	47.15	64.77	-17.62	QP
4		0.1740	21.86	10.03	31.89	57.40	-25.51	AVG
5		19.9740	23.59	10.11	33.70	60.00	-26.30	QP
6		19.9740	11.32	10.11	21.43	50.00	-28.57	AVG

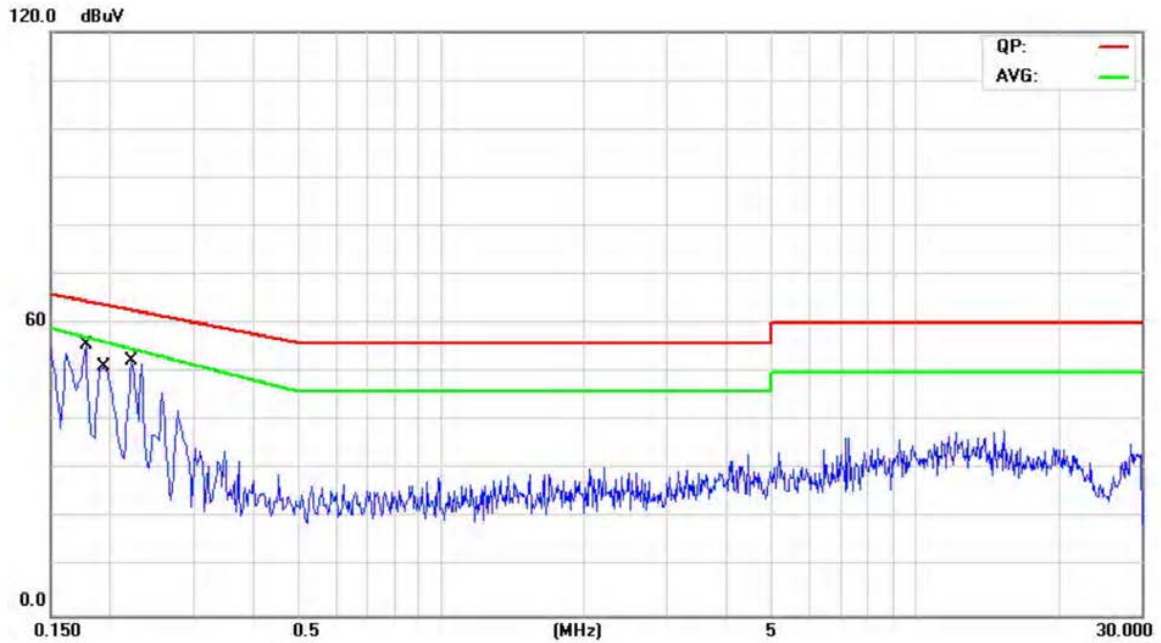
Test Report No.: EFSH13020317-IE-01-E01-A4

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YW-0123DN

Live Line:

Level

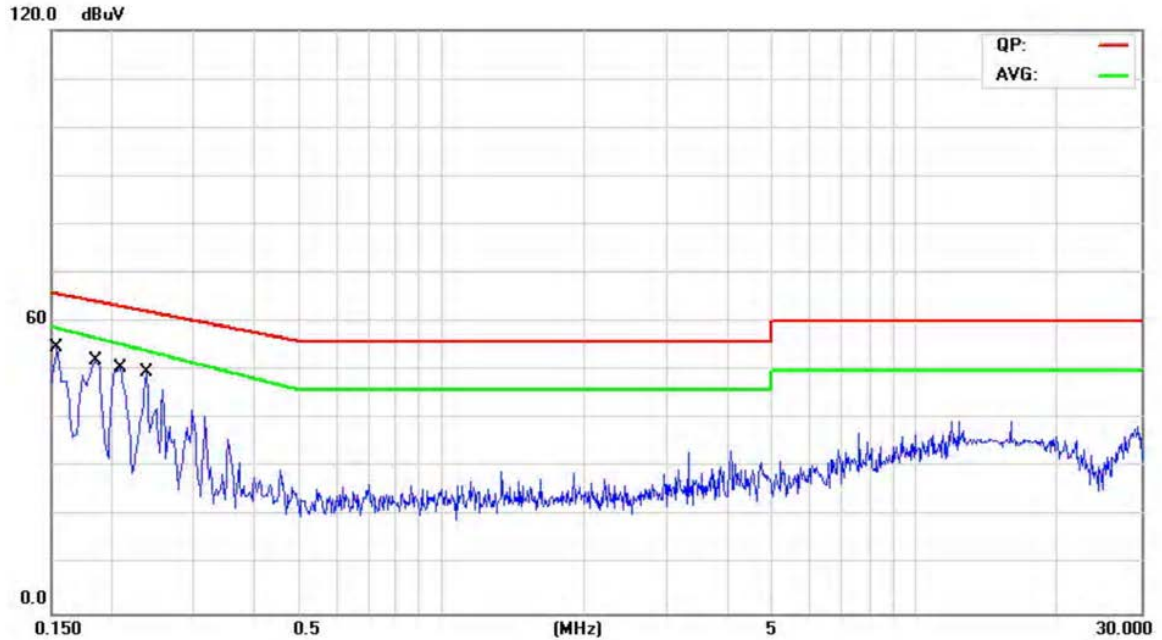


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1780	38.54	10.01	48.55	64.57	-16.02	QP
2		0.1780	22.84	10.01	32.85	57.15	-24.30	AVG
3		0.1940	37.52	9.91	47.43	63.86	-16.43	QP
4		0.1940	20.99	9.91	30.90	56.22	-25.32	AVG
5		0.2220	34.33	9.86	44.19	62.74	-18.55	QP
6		0.2220	17.57	9.86	27.43	54.76	-27.33	AVG

Test Report No.: EFSH13020317-IE-01-E01-A4

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No.395 West Jiangchang Road, Jing'an District, Shanghai, 200436, P.R. China

Neutral Line:
Level



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			Detector
			dBuV	dB	dBuV	dBuV	dB	
1	*	0.1539	40.88	10.16	51.04	65.78	-14.74	QP
2		0.1539	26.45	10.16	36.61	58.72	-22.11	AVG
3		0.1860	36.81	9.96	46.77	64.21	-17.44	QP
4		0.1860	21.19	9.96	31.15	56.67	-25.52	AVG
5		0.2100	36.25	9.86	46.11	63.20	-17.09	QP
6		0.2100	19.65	9.86	29.51	55.36	-25.85	AVG
7		0.2380	32.93	9.85	42.78	62.16	-19.38	QP
8		0.2380	17.01	9.85	26.86	54.01	-27.15	AVG

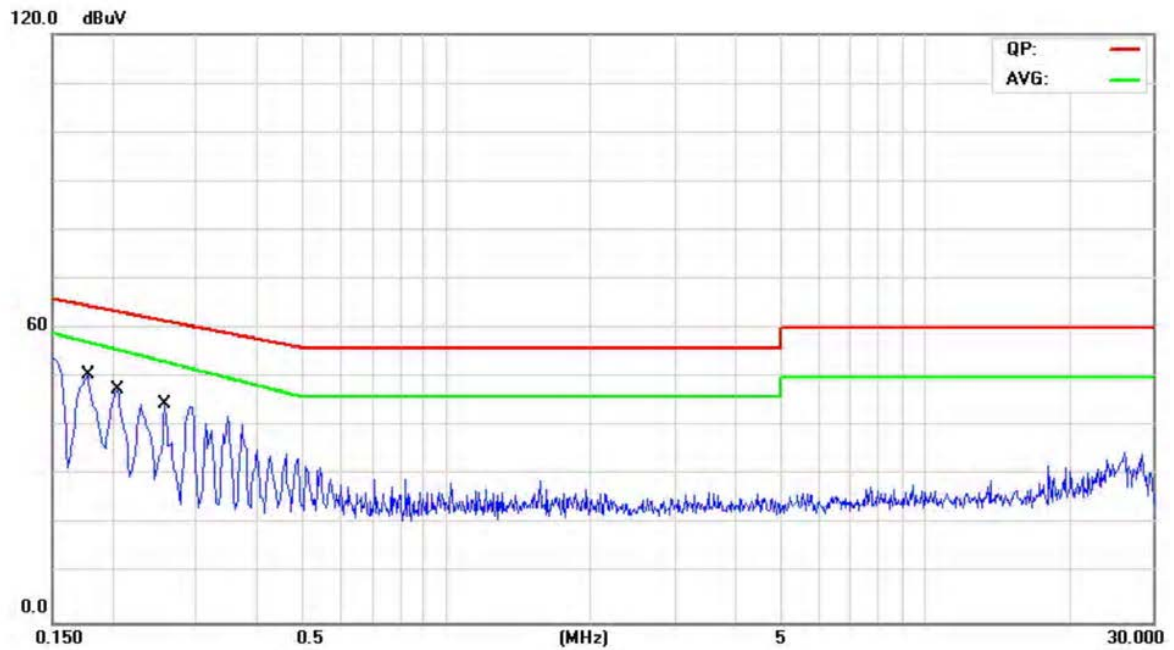
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YW-0123DN with motor YD5415A1

Live Line:

Level

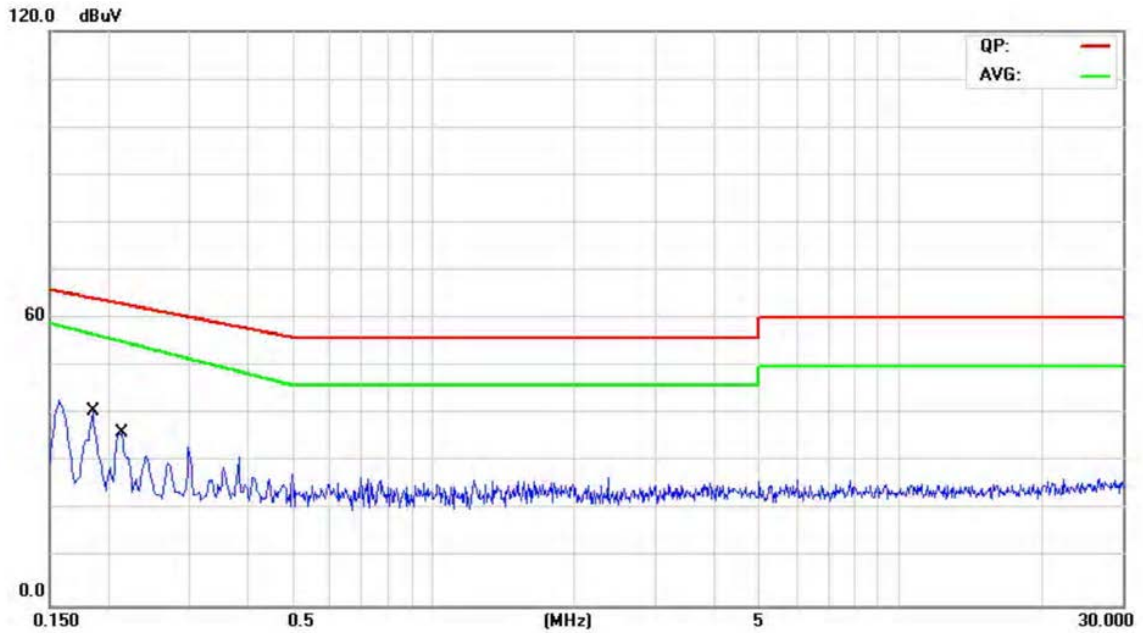


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			Detector
			dBuV	dB	dBuV	dBuV	dB	
1	*	0.1780	32.92	10.35	43.27	64.57	-21.30	QP
2		0.1780	16.69	10.35	27.04	57.15	-30.11	AVG
3		0.2060	27.93	10.55	38.48	63.36	-24.88	QP
4		0.2060	12.58	10.55	23.13	55.57	-32.44	AVG
5		0.2580	20.17	10.55	30.72	61.49	-30.77	QP
6		0.2580	8.18	10.55	18.73	53.14	-34.41	AVG

Test Report No.: EFSH13020317-IE-01-E01-A4

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No.395 West Jiangchang Road, Jing'an District, Shanghai, 200436, P.R. China

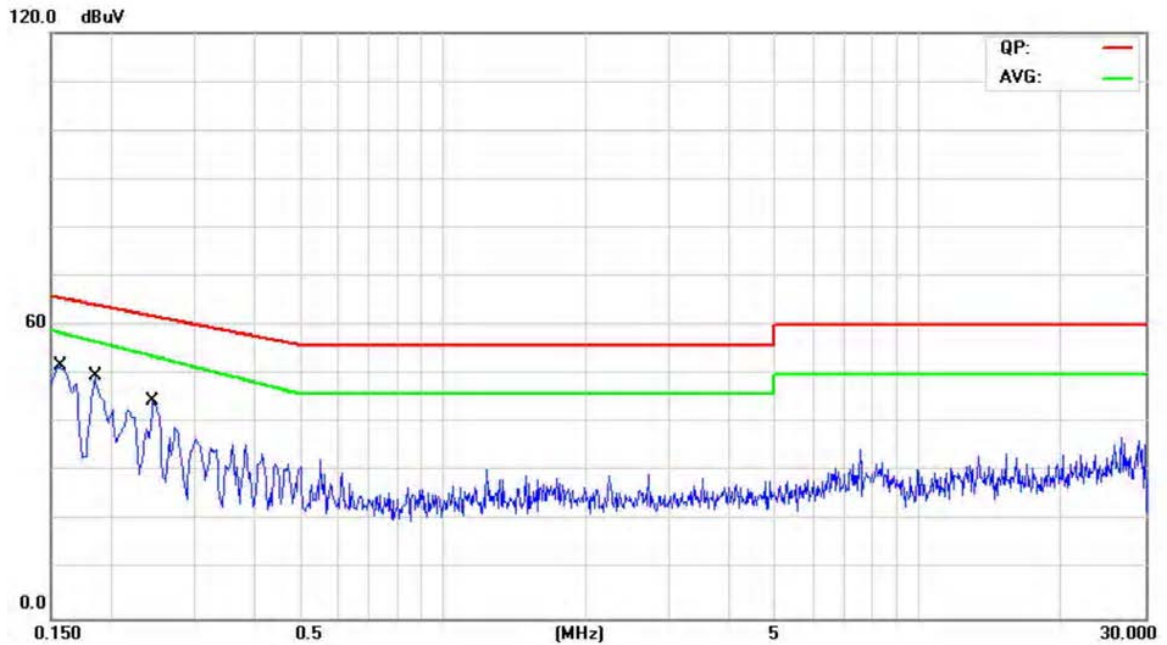
Neutral Line:
Level



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1860	26.88	10.48	37.36	64.21	-26.85	QP
2		0.1860	14.32	10.48	24.80	56.67	-31.87	AVG
3		0.2140	23.94	10.28	34.22	63.04	-28.82	QP
4		0.2140	12.34	10.28	22.62	55.16	-32.54	AVG

Test Report No.: EFSH13020317-IE-01-E01-A4

Eurofins Product Testing Service (Shanghai) Co., Ltd.
No.395 West Jiangchang Road, Jing'an District, Shanghai, 200436, P.R. China

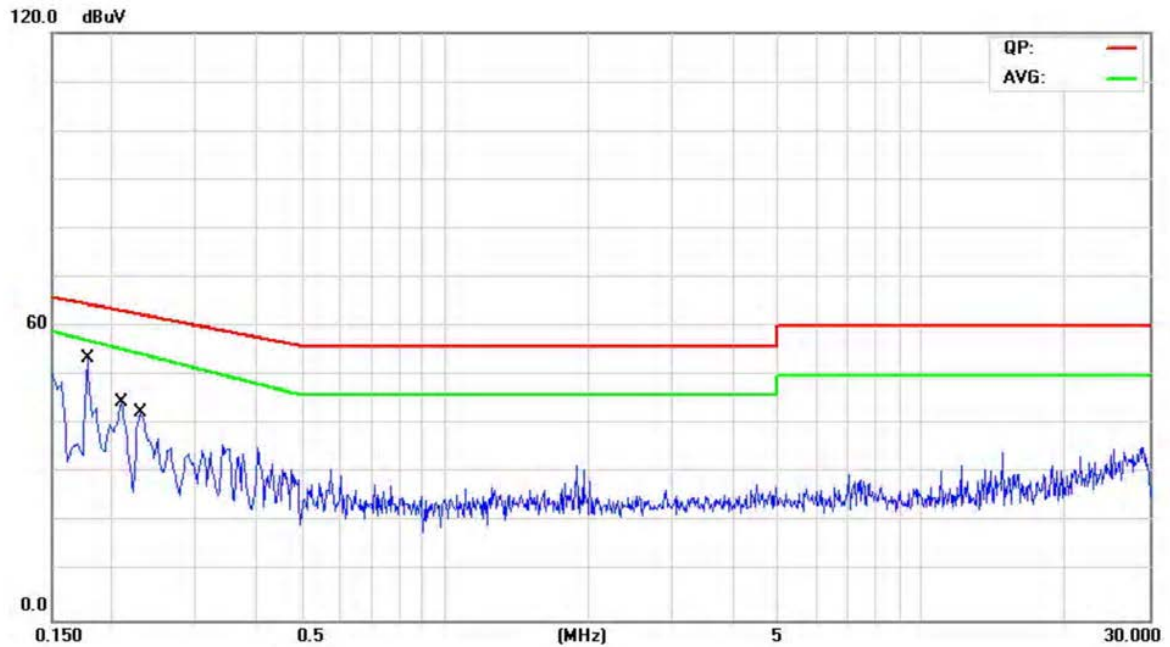
YW-0123DN with motor YD5415A2
Live Line:
Level


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1580	37.66	10.28	47.94	65.56	-17.62	QP
2		0.1580	24.39	10.28	34.67	58.43	-23.76	AVG
3		0.1860	32.35	10.42	42.77	64.21	-21.44	QP
4		0.1860	19.87	10.42	30.29	56.67	-26.38	AVG
5		0.2460	25.98	10.55	36.53	61.89	-25.36	QP
6		0.2460	14.41	10.55	24.96	53.65	-28.69	AVG

Test Report No.: EFSH13020317-IE-01-E01-A4

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 No.395 West Jiangchang Road, Jing'an District, Shanghai, 200436, P.R. China

Neutral Line:
Level



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1780	32.22	10.53	42.75	64.57	-21.82	QP
2		0.1780	18.86	10.53	29.39	57.15	-27.76	AVG
3		0.2100	28.29	10.28	38.57	63.20	-24.63	QP
4		0.2100	15.79	10.28	26.07	55.36	-29.29	AVG
5		0.2300	25.41	10.28	35.69	62.45	-26.76	QP
6		0.2300	14.07	10.28	24.35	54.38	-30.03	AVG

Test Report No.: EFSH13020317-IE-01-E01-A4

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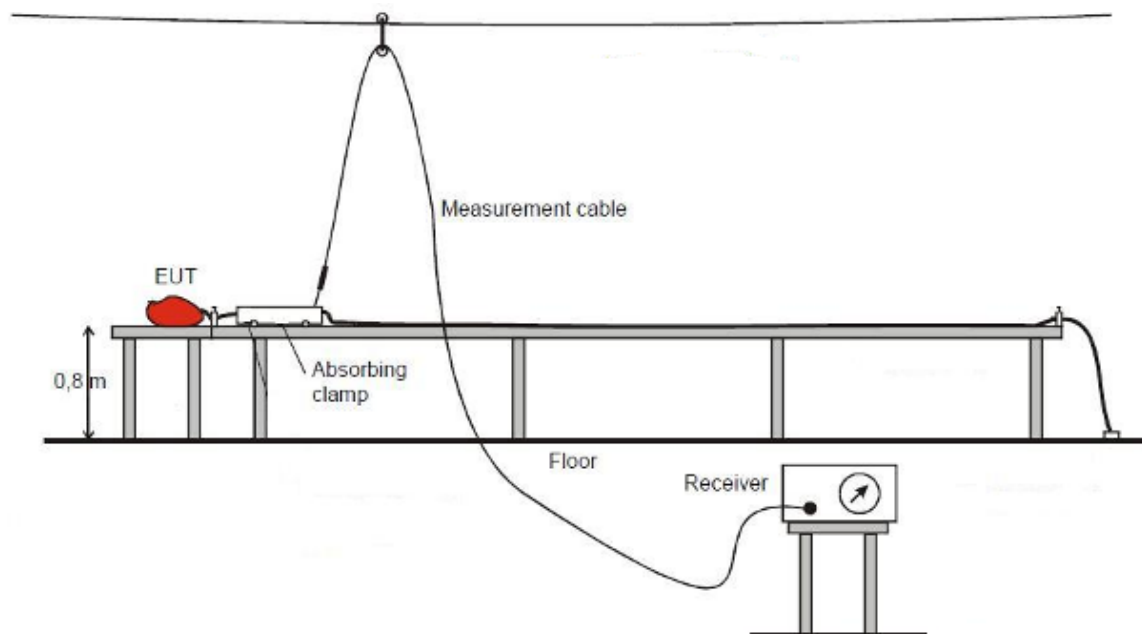
4.2 Disturbance power

This clause lays down the general requirements for the measurement of disturbance power produced at the terminals of apparatus.

4.2.1 limits

Frequency range MHz	Limit dB (pW)	
	Quasi-peak	Average
30 to 300	45 to 55	35 to 45
Note1: Increasing linearly with the frequency from.		

4.2.2 Measurement procedure



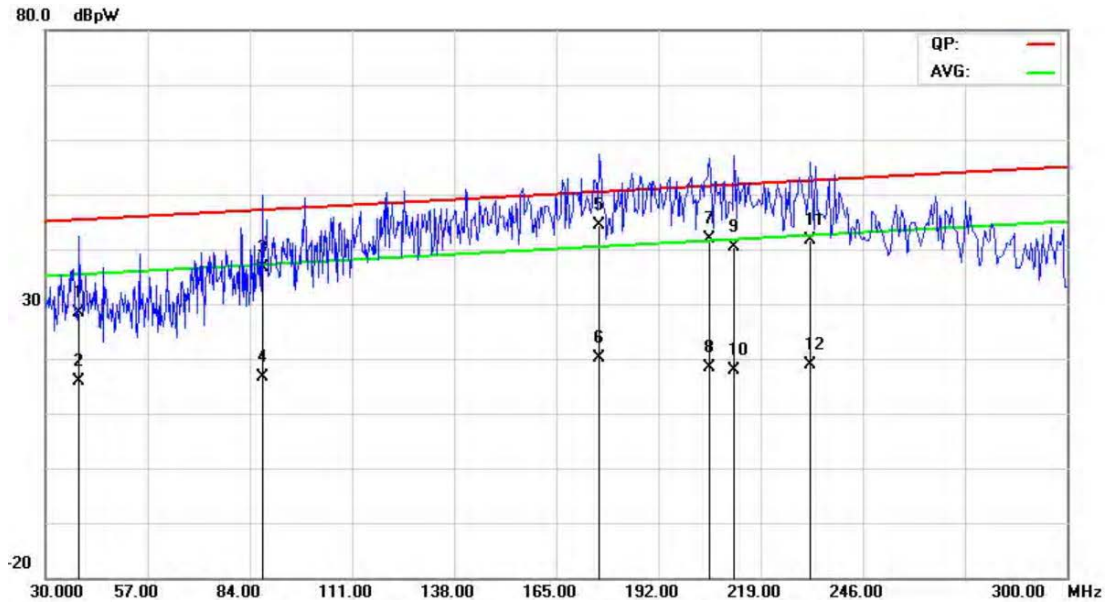
The test configuration corresponds to the standard EN 55014-1. The equipment under test is placed on a non metallic table with 0,8 m high. The lead to be measured is stretched horizontally in a straight line, to permit variation in position of the absorbing clamp along the lead to find the maximum indication. The lead shall be at least length of 6 meter. According to a pre-test at 50MHz, the worst voltage was selected for final test. Before get the final emission results with quasi-peak(QP) detector and average(AVG) detector, a pre-scan was performed with the peak(PK) detector to find out the maximum emission data plots of the EUT. The absorbing clamp is placed around the lead.

4.2.3 Measurement uncertainty

$U_{lab(cond)} = 4.08 \text{ dB}$ at confidence of 95%, $k=2$

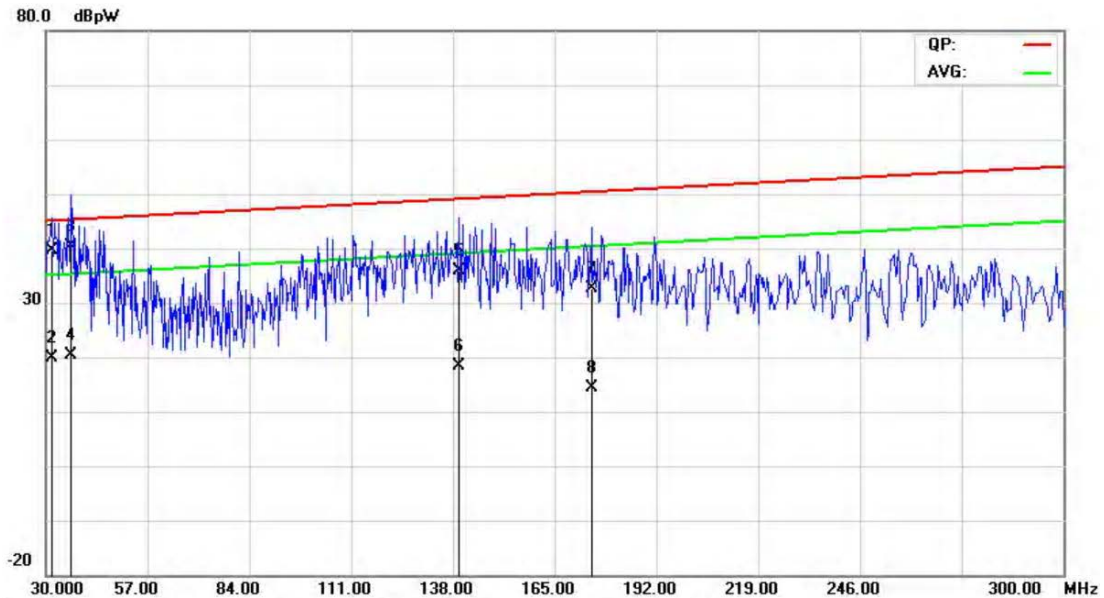
4.2.4 Results

YW-0123C
Level



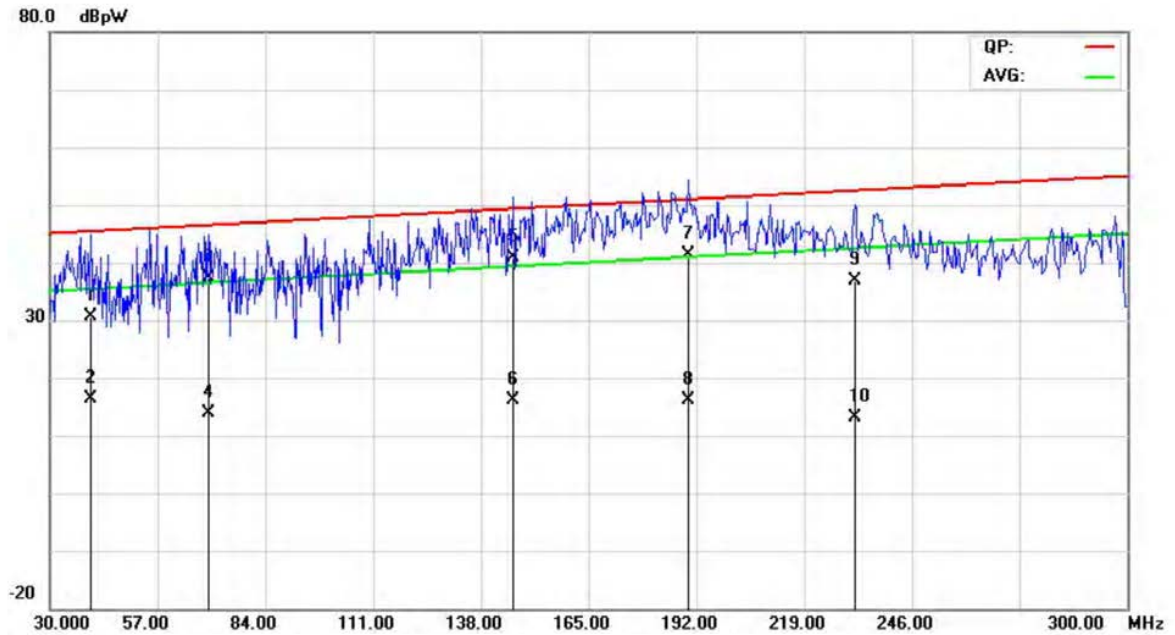
No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector
1		39.1600	3.37	25.02	28.39	45.34	-16.95	QP
2		39.1600	-9.02	25.02	16.00	35.34	-19.34	AVG
3		87.3600	15.07	21.66	36.73	47.12	-10.39	QP
4		87.3600	-4.96	21.66	16.70	37.12	-20.42	AVG
5	*	176.4000	24.12	20.17	44.29	50.42	-6.13	QP
6		176.4000	0.03	20.17	20.20	40.42	-20.22	AVG
7		205.6000	22.36	19.45	41.81	51.50	-9.69	QP
8		205.6000	-0.95	19.45	18.50	41.50	-23.00	AVG
9		212.0000	20.89	19.45	40.34	51.74	-11.40	QP
10		212.0000	-1.45	19.45	18.00	41.74	-23.74	AVG
11		232.2000	22.17	19.43	41.60	52.49	-10.89	QP
12		232.2000	-0.53	19.43	18.90	42.49	-23.59	AVG

YW-0123F
Level



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			Detector
			dBpW	dB	dBpW	dBpW	dB	
1		31.6400	13.75	25.86	39.61	45.06	-5.45	QP
2		31.6400	-5.96	25.86	19.90	35.06	-15.16	AVG
3	*	36.8400	15.31	25.15	40.46	45.25	-4.79	QP
4		36.8400	-4.65	25.15	20.50	35.25	-14.75	AVG
5		139.8400	14.87	21.13	36.00	49.07	-13.07	QP
6		139.8400	-2.63	21.13	18.50	39.07	-20.57	AVG
7		174.9600	12.41	20.21	32.62	50.37	-17.75	QP
8		174.9600	-5.91	20.21	14.30	40.37	-26.07	AVG

YW-0123DN
Level

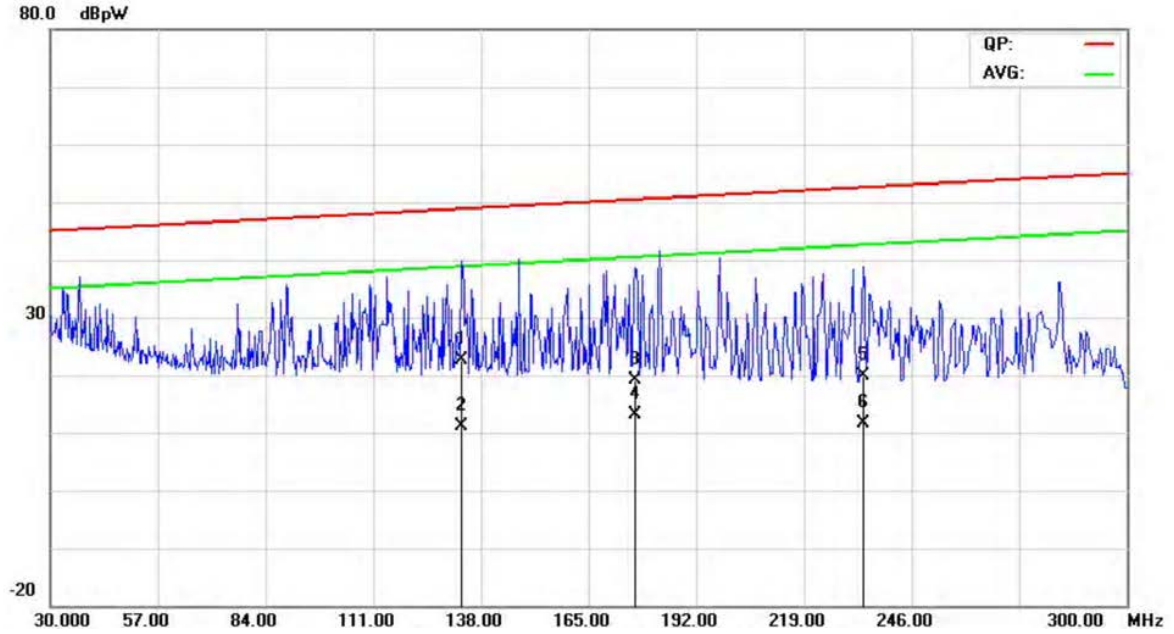


No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector
1		40.4800	5.65	24.94	30.59	45.39	-14.80	QP
2		40.4800	-8.44	24.94	16.50	35.39	-18.89	AVG
3		69.8000	15.87	21.58	37.45	46.47	-9.02	QP
4		69.8000	-7.58	21.58	14.00	36.47	-22.47	AVG
5	*	146.1200	19.81	20.99	40.80	49.30	-8.50	QP
6		146.1200	-4.79	20.99	16.20	39.30	-23.10	AVG
7		190.0399	21.65	19.76	41.41	50.93	-9.52	QP
8		190.0399	-3.66	19.76	16.10	40.93	-24.83	AVG
9		231.8800	17.40	19.43	36.83	52.48	-15.65	QP
10		231.8800	-6.33	19.43	13.10	42.48	-29.38	AVG

Test Report No.: EFSH13020317-IE-01-E01-A4

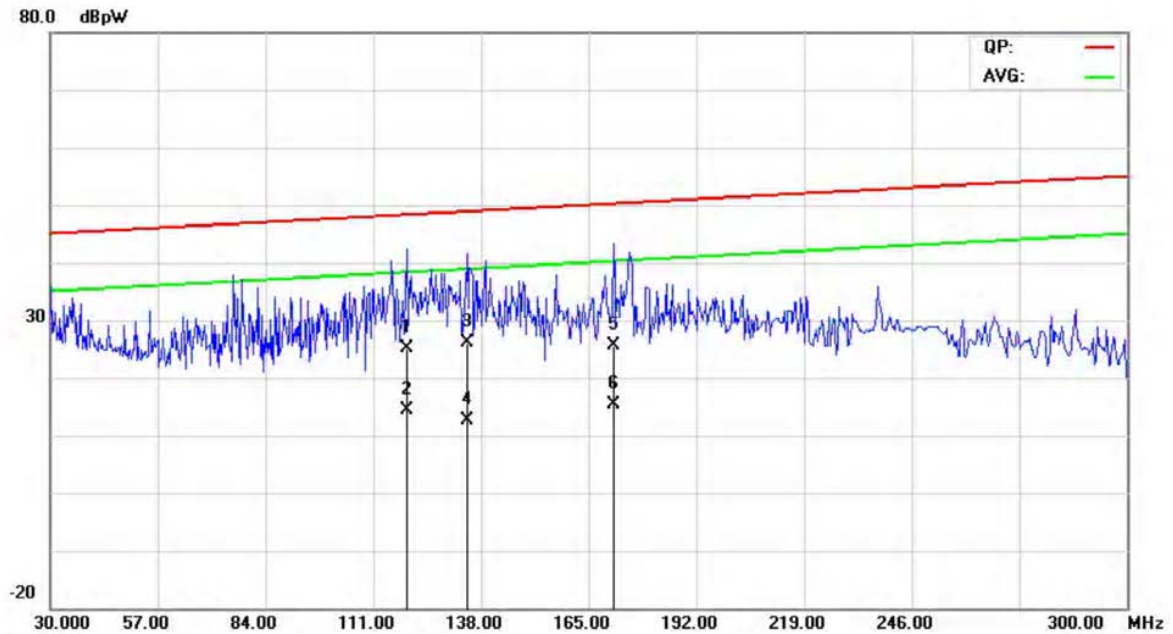
Eurofins Product Testing Service (Shanghai) Co., Ltd.
No.395 West Jiangchang Road, Jing'an District, Shanghai, 200436, P.R. China

YW-0123DN with motor YD5415A1
Level



No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector
1	*	133.2400	1.30	21.29	22.59	48.82	-26.23	QP
2		133.2400	-10.09	21.29	11.20	38.82	-27.62	AVG
3		176.8000	-1.02	20.16	19.14	50.44	-31.30	QP
4		176.8000	-6.96	20.16	13.20	40.44	-27.24	AVG
5		233.9600	0.43	19.43	19.86	52.55	-32.69	QP
6		233.9600	-7.83	19.43	11.60	42.55	-30.95	AVG

YW-0123DN with motor YD5415A2
Level



No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector
1		119.6000	3.59	21.61	25.20	48.32	-23.12	QP
2		119.6000	-7.11	21.61	14.50	38.32	-23.82	AVG
3	*	134.7600	4.97	21.25	26.22	48.88	-22.66	QP
4		134.7600	-8.65	21.25	12.60	38.88	-26.28	AVG
5		171.3200	5.43	20.32	25.75	50.23	-24.48	QP
6		171.3200	-4.82	20.32	15.50	40.23	-24.73	AVG

4.3 Voltage Changes, Voltage Fluctuations and Flicker

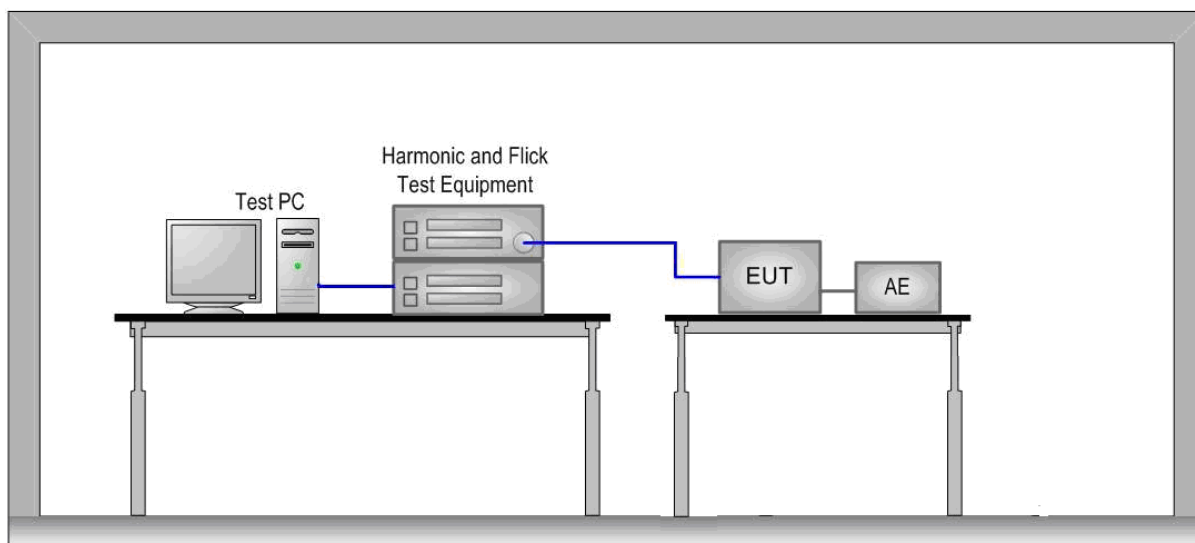
This part is concerned with the limitation of voltage fluctuations and flicker impressed on the public low-voltage system.

4.3.1 Limits

Value	Limit
Pst	1,0
Plt	0,65
dt	3,3%
dc	3,3%
dmax	6,0%

Note: Pst and Plt requirements shall not apply to voltage change caused by manual switching.

4.3.2 Measurement test procedure



The equipment under test is placed on a wooden table with a height of 0,8 m in the EMC lab. The voltage fluctuations and flicker were measured at the supply terminals of the EUT.

4.3.3 Results

YW-0123C

Parameter values recorded during the test:

Vrms at the end of test (Volt):	229.98			
Highest dt (%):	-0.81	Test limit (%):	3.30	Pass
Time(mS) > dt:	0.0	Test limit (mS):	500.0	Pass
Highest dc (%):	0.00	Test limit (%):	3.30	Pass
Highest dmax (%):	-0.56	Test limit (%):	6.00	Pass

Test Report No.: EFSH13020317-IE-01-E01-A4

Eurofins Product Testing Service (Shanghai) Co., Ltd.
No.395 West Jiangchang Road, Jing'an District, Shanghai, 200436, P.R. China

YW-0123F

Parameter values recorded during the test:

Vrms at the end of test (Volt):	229.94			
Highest dt (%):	0.49	Test limit (%):	3.30	Pass
Time(mS) > dt:	0.0	Test limit (mS):	500.0	Pass
Highest dc (%):	0.00	Test limit (%):	3.30	Pass
Highest dmax (%):	0.53	Test limit (%):	6.00	Pass

YW-0123DN

Parameter values recorded during the test:

Vrms at the end of test (Volt):	229.92			
Highest dt (%):	0.25	Test limit (%):	3.30	Pass
Time(mS) > dt:	0.0	Test limit (mS):	500.0	Pass
Highest dc (%):	0.00	Test limit (%):	3.30	Pass
Highest dmax (%):	0.24	Test limit (%):	6.00	Pass

YW-0123DN with motor YD5415A1

Parameter values recorded during the test:

Vrms at the end of test (Volt):	229.72			
Highest dt (%):	0.27	Test limit (%):	3.30	Pass
Time(mS) > dt:	0.0	Test limit (mS):	500.0	Pass
Highest dc (%):	0.00	Test limit (%):	3.30	Pass
Highest dmax (%):	0.38	Test limit (%):	6.00	Pass

YW-0123DN with motor YD5415A2

Parameter values recorded during the test:

Vrms at the end of test (Volt):	229.99			
Highest dt (%):	0.37	Test limit (%):	3.30	Pass
Time(mS) > dt:	0.0	Test limit (mS):	500.0	Pass
Highest dc (%):	0.00	Test limit (%):	3.30	Pass
Highest dmax (%):	0.43	Test limit (%):	6.00	Pass

5 Test Setup Photos

Harmonic & Flicker



Conducted Emission



Disturbance power

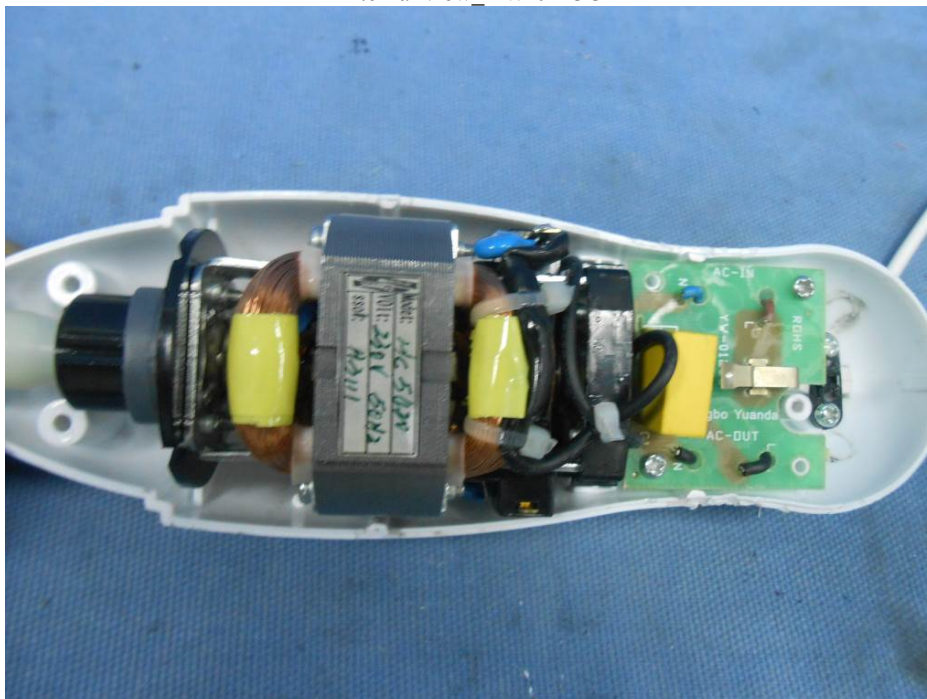


6 EUT Photos

Overview_YW-0123C



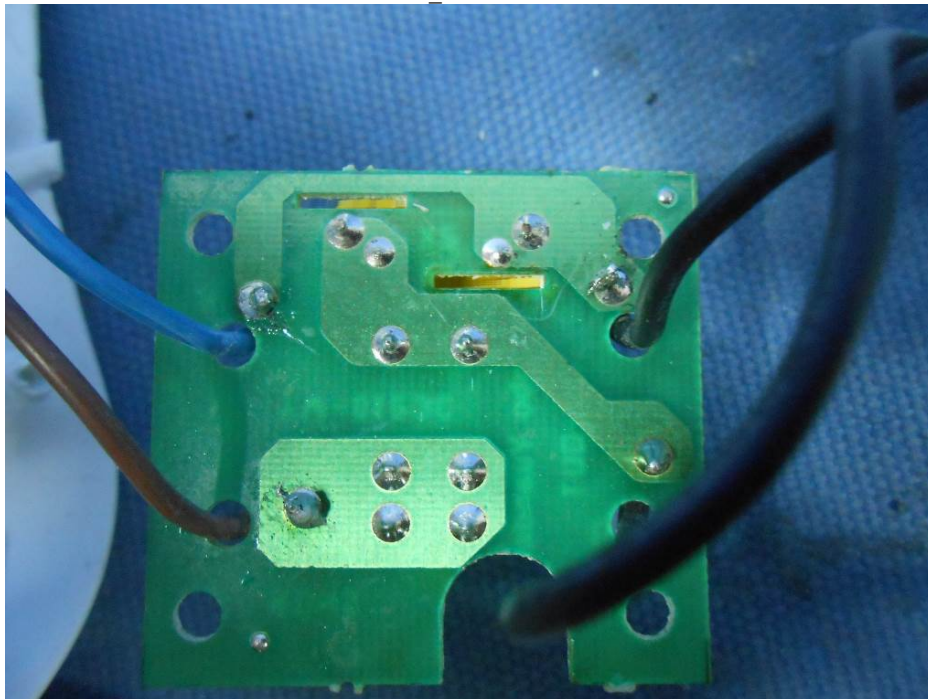
Internal view_YW-0123C



PCB_YW-0123C



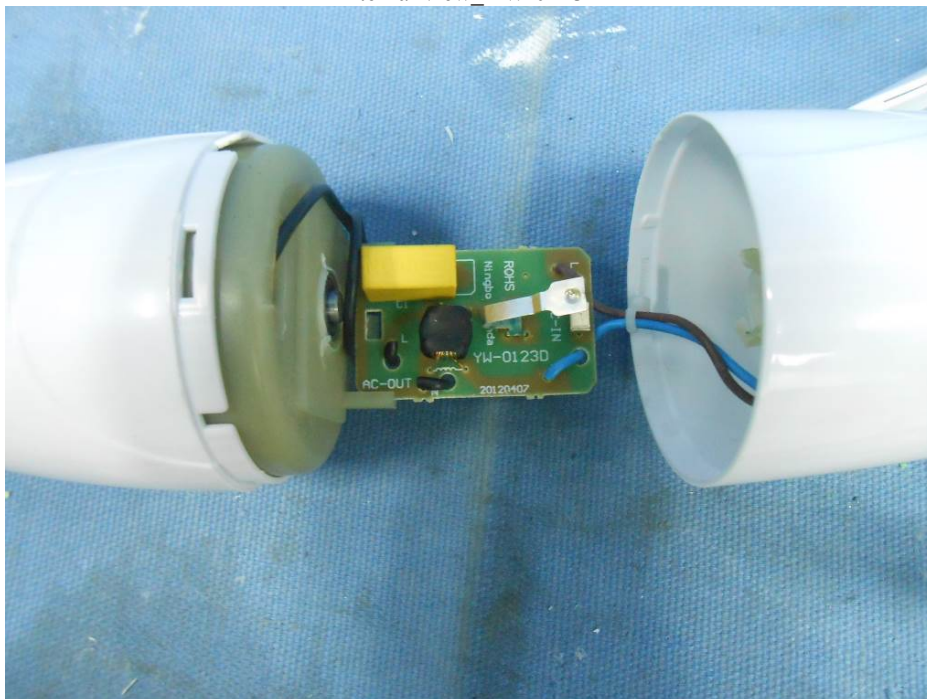
PCB_YW-0123C



Overview_YW-0123D



Internal view_YW-0123D



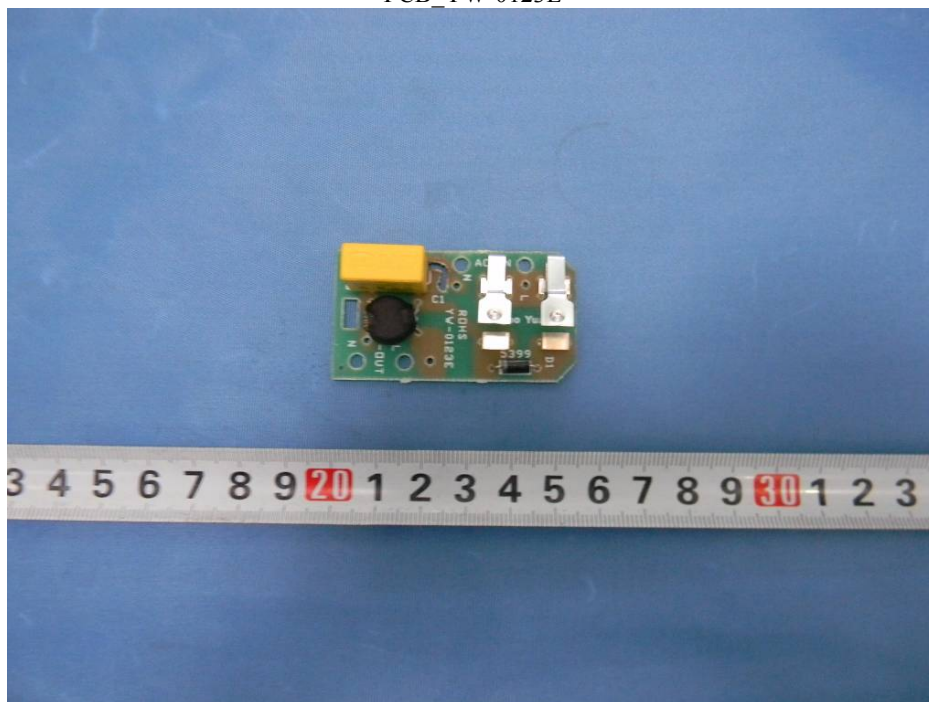
Overview YW-0123E



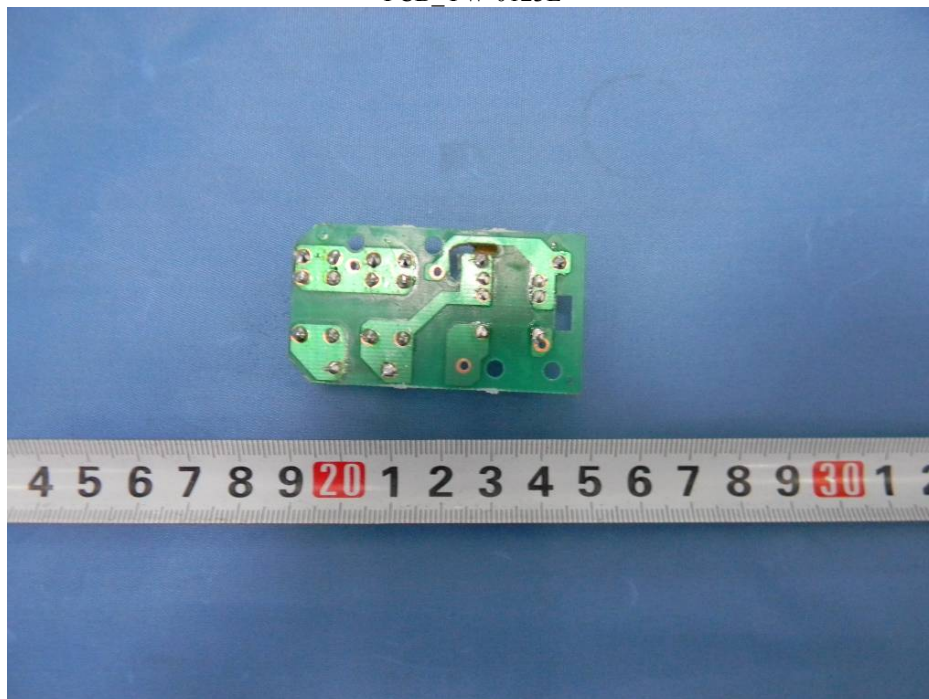
Internal view YW-0123E



PCB_YW-0123E



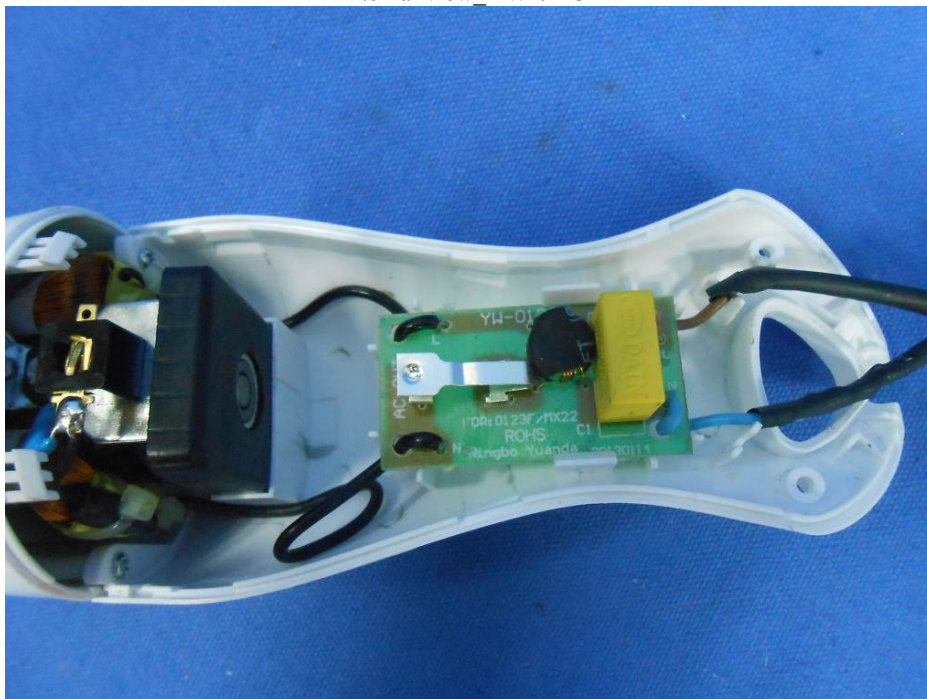
PCB_YW-0123E



Overview_YW-0123F



Internal view_YW-0123F



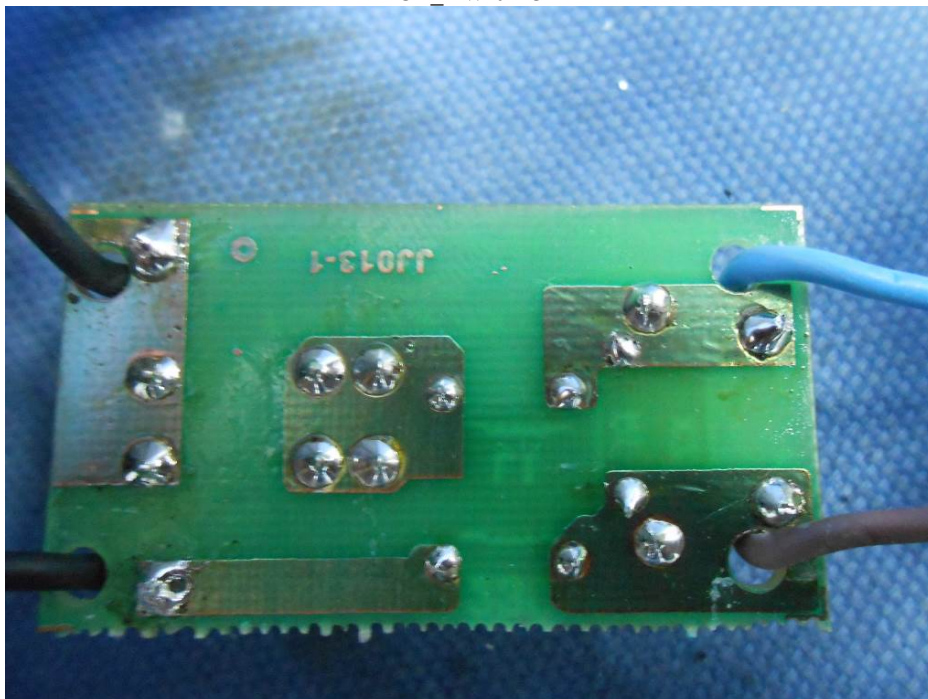
Test Report No.: EFSH13020317-IE-01-E01-A4

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PCB_YW-0123F



PCB_YW-0123F



Overview YW-0123DN



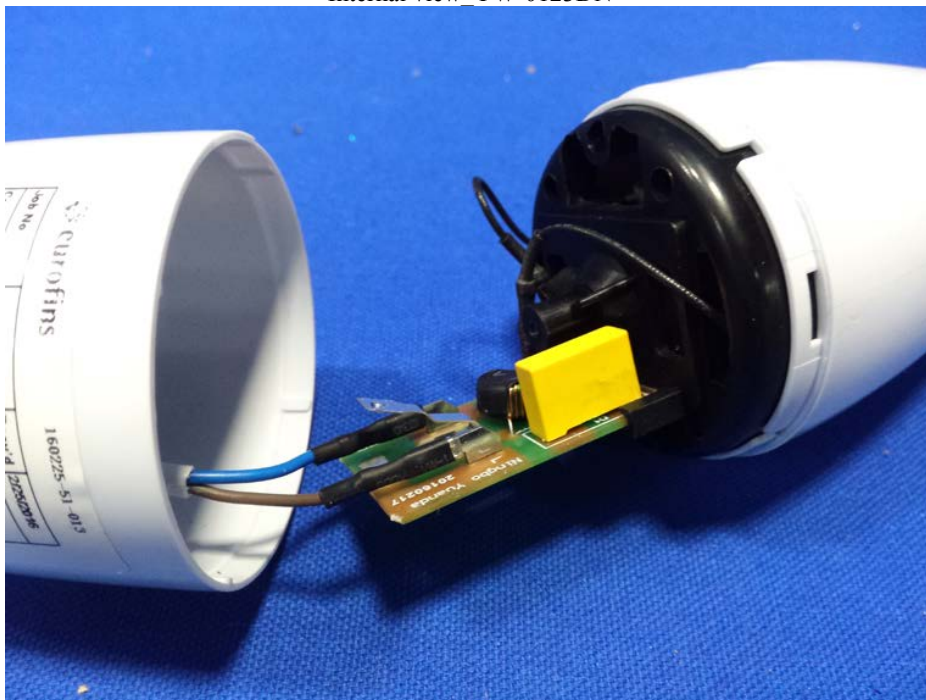
Side view YW-0123DN



Test Report No.: EFSH13020317-IE-01-E01-A4

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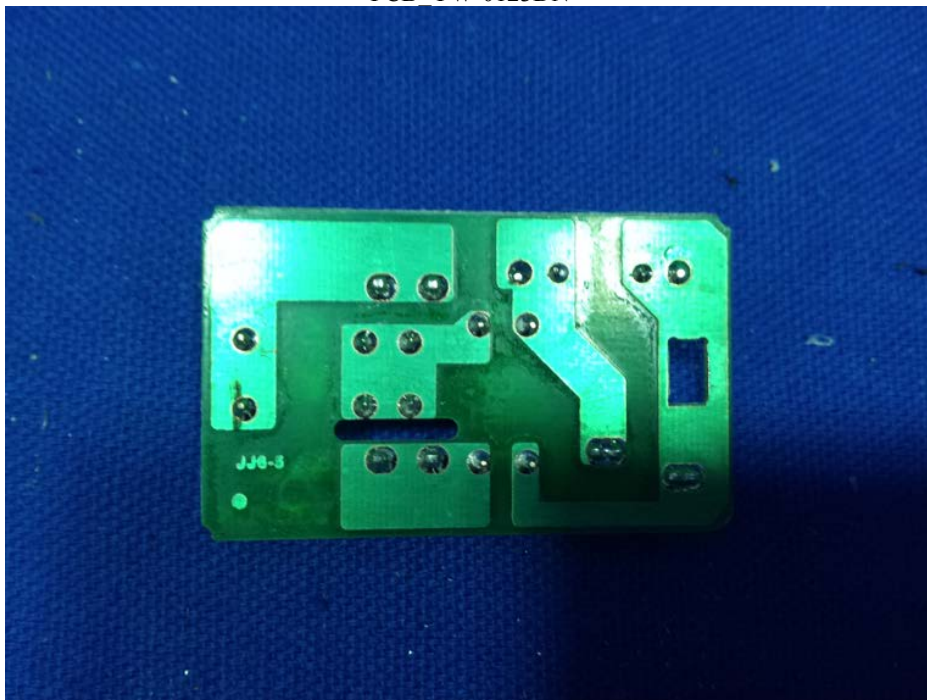
Internal view YW-0123DN



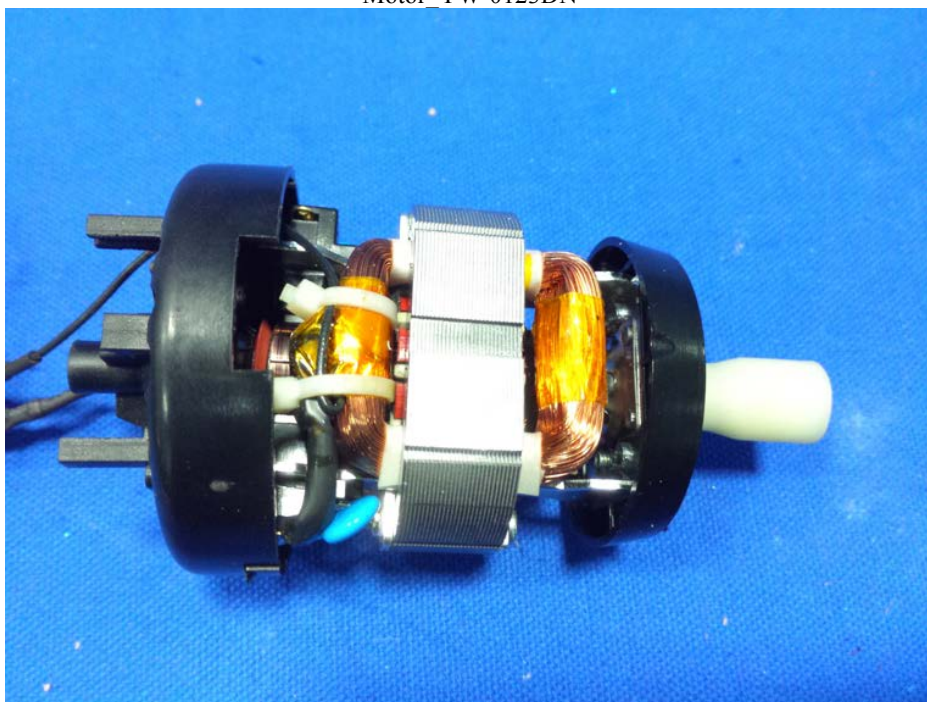
PCB YW-0123DN



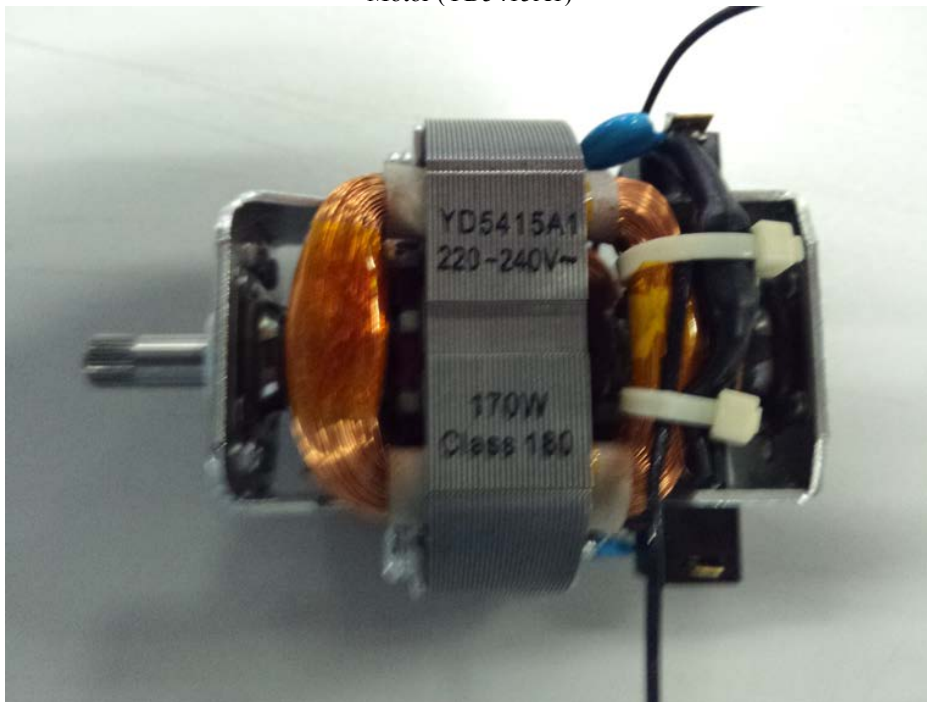
PCB_YW-0123DN



Motor_YW-0123DN



Motor (YD5415A1)



Motor (YD5415A2)



Back view of PCB



7 Amendment 1

The original test report ref. No. EFSH13020317-IE-01-E01 dated 2013-04-12, was modified on 2016-01-15 to include the following changes and/or additions:

Update technical standard to EN 61000-3-2: 2014.

Update technical standard to EN 61000-3-3: 2013.

After review, no tests need to be done.

This report replaces the original test report: EFSH13020317-IE-01-E01.

8 Amendment 2

The original test report ref. No. EFSH13020317-IE-01-E01 dated 2013-04-12, and EFSH13020317-IE-01-E01-A1 dated 2016-01-15 was modified on 2016-04-05 to include the following changes and/or additions:

1. Add new model YW-0123DN, which is identical with YW-0123D except the following differences:

- 1) the construction of motor support
- 2) fixed mode of construction of motor support, which is screw fixation for YW-0123DN
- 3) color of ornament on handle, which is blue for YW-0123DN
- 4) shape of blade
- 5) fixed mode for cord or internal wire to PCB, which is insert connection mode for YW-0123DN
- 6) motor

After review, YW-0123DN was selected to do all tests.

This report replaces the original test report: EFSH13020317-IE-01-E01 and EFSH13020317-IE-01-E01-A1.

9 Amendment 3

The original test report ref. No. EFSH13020317-IE-01-E01 dated 2013-04-12, EFSH13020317-IE-01-E01-A1 dated 2016-01-15 and EFSH13020317-IE-01-E01-A2 dated 2016-04-05 was modified on 2016-05-09 to include the following changes and/or additions:

1. Add two alternative motors for model YW-0123DN named “YD5415A1” and “YD5415A2”.
2. Change the printed words on the back side of PCB.

After review, YW-0123DN with new motors YD5415A1 and YD5415A2 is selected to do all tests.

This report replaces the original test report: EFSH13020317-IE-01-E01, EFSH13020317-IE-01-E01-A1 and EFSH13020317-IE-01-E01-A2.

10 Amendment 4

The original test report ref. No. EFSH13020317-IE-01-E01-A3 dated 2016-05-09, was modified on 2018-01-23 to include the following changes and/or additions:

1. Add technical standard “EN 55014-2:2015”.

After review, no additional test needs to be performed.

Test report ref. No. EFSH13020317-IE-01-E01-A3 was replaced by test report ref. No. EFSH13020317-IE-01-E01-A4.