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EMC Test report for Tile Saw

Models: TS9, TS230, TS230F

Shanghai, date of issue: 2014-09-10 Author : Richie Tang

By order of Lee Yeong Industrial Co., Ltd. at Yunlin County 64057, Taiwan

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author : Richie Tang B 25 pages 0 annexes (sec) DEKRA Testing and Certification (Shanghai) Ltd. Document reviewed : Sky Zhang

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1 CONCLUSION

The equipment under test (EUT) does meet the essential requirements of the EMC Directive 2014/30/EU.

The tests described in this report do not result in the right to use any approval mark as conferred by DEKRA. As far as the tests were based on certain specifications, these are mentioned in the report.

The conclusion and results stated in this test report are based on a non-recurrent examination of sample(s) provided by the applicant.

1.1 Model description

The apparatus as supplied for the test is a tile saw; model TS9 intended for residential use. This product has electronic control circuit and earth connection.

According to the declaration from manufacturer, models TS9, TS230 and TS230F are identical except the model name.

Due to the similarity between them, model TS9 was selected for the full tests and the corresponding data is representative for models TS230 and TS230F as well.



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Figure 1 Overview



Figure 2 Internla view



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1.2 Environment

The requirements and standards apply to equipment intended for use in:

✓	Residential (domestic) environment	
	Commercial and light-industrial environment	
	Industrial environment	
	Medical environment	

1.3 Classification

The standard EN 55014-2 is subdivided in four categories. For each category, the specific immunity requirements are formulated.

	Category 1	Apparatus containing no electronic control circuitry
~	Category 2	Apparatus containing electronic control circuitry with no internal clock or oscillator frequency higher than 15 MHz.
	Category 3	Battery powered apparatus containing electronic control circuitry with no internal clock higher than 15 MHz.
	Category 4	All other apparatus.



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2 SUMMARY

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

2.1 Applied standards

Standard	Year	Title
EN 55014-1	2006	Emission – Electrical motor-operated and thermal
A1	2009	appliances for household and similar purposes, electrical
A2	2011	tools and similar electrical apparatus
EN 55014-2	1997	
A1	2001	Immunity - Household appliances, electric tools and similar
A2	2008	
EN 61000-3-2	2006	
A1	2009	Limits for harmonic currents emissions
A2	2009	
EN 61000-3-3	2013	Limitation of voltage fluctuations and flicker

2.2 **Overview of results**

Emission tests	Result
Mains conducted disturbance voltage	PASS
Disturbance Power	PASS
Harmonic current emission	PASS
Limitation of voltage fluctuations (flicker)	PASS

Immunity tests	Result
Electrostatic Discharges (ESD)	PASS
Electrical fast transient (EFT)	PASS
Surge transients	PASS
Conducted RF disturbances	PASS
Power supply voltage interruptions & dips	PASS



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3 **GENERAL INFORMATION**

3.1 **Product Information**

Equipment under test	Tile Saw
Trade mark	AGP
Tested Type	TS9
Representative types	TS230, TS230F
Ratings	110-120 Vac; 50-60 Hz; 550 W; IPX4; Class I
Tratings	220-240 Vac; 50-60 Hz; 550 W; IPX4; Class I

3.2 **Customer Information**

Applicant	Lee Yeong Industrial Co., Ltd.
Contact person	Ms. Diane Wu
Telephone	+886 5 551 8689
Telefax	+886 5 551 8635
Address	No.2, Kejia Road, Douliu City, Yunlin County 64057, Taiwan

Manufacturer	Lee Yeong Industrial Co., Ltd.
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Address	No.2, Kejia Road, Douliu City, Yunlin County 64057, Taiwan



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3.3 Test data

Location	DEKRA Testing and Certification (Shanghai) Ltd.
Address	1 F., No. 250, Jiangchangsan Road, Shanghai City, China
Date	May 2014
Supervised by	Richie Tang

3.4 Environmental conditions

Tests have been performed in a controlled laboratory environment, where the environmental conditions are maintained within the applicable ranges.

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

Measurement Uncertainty

Conducted Emission Expanded Uncertainty: U = 3.22 dBDisturbance Power Expanded Uncertainty: U = 2.38 dB



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4 EMISSION TEST RESULTS

4.1 Mains conducted disturbance voltage

Standard		EN 55014-1 (Tools)				
Frequency [MHz]		QP [dB(μV)]			AV [dB(μV)]		
0,15 –	0,35	66	_	59 *)	59	_	49 *)
0,35 –	5	59			49		
5 –	30	64			54		

*) Limits decreasing linearly with the logarithm of the frequency

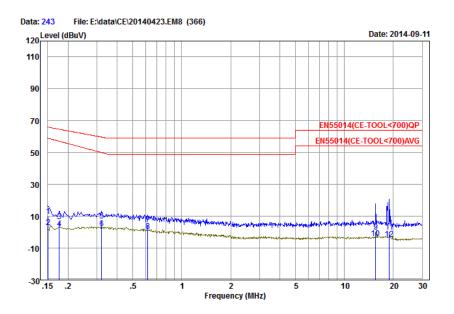
\checkmark	Rated motor power not exceeding 700 W	Limits as above
	Rated motor power above 700 and not exceeding	Limits +4 dB
	1000 W	
	Rated power above 1000 W	Limits +10 dB

Port	AC mains
Test method	LISN
Mode	On mode



Results with 110-120 Vac

Line

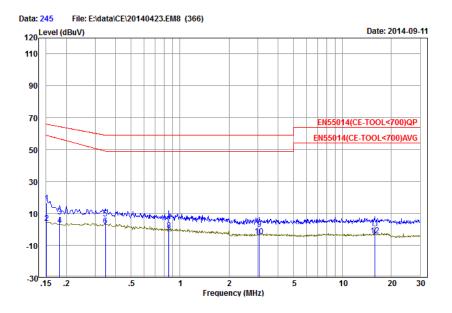


			Limit		Read		Cable	0ver	
		Freq	Line	Level	Level	Factor	Loss	Limit	Remark
		MHz	dBuV	dBuV	dBuV	dB	dB	dB	
1		0.15	65.95	10.03	-0.85	10.88	1.18	-55.92	QP
2		0.15	58.92	3.02	-7.86	10.88	1.18	-55.90	Average
3		0.18	64.64	6.70	-4.06	10.76	1.14	-57.94	QP
4		0.18	57.06	2.17	-8.59	10.76	1.14	-54.89	Average
5	qp	0.32	59.70	7.09	-3.59	10.68	1.10	-52.61	QP
6	рр	0.32	50.00	2.42	-8.26	10.68	1.10	-47.58	Average
7		0.62	59.00	4.57	-6.25	10.82	1.20	-54.43	QP
8		0.62	49.00	0.57	-10.25	10.82	1.20	-48.43	Average
9		15.55	64.00	0.35	-11.08	11.43	1.72	-63.65	QP
10		15.55	54.00	-3.91	-15.34	11.43	1.72	-57.91	Average
11		18.92	64.00	0.39	-11.21	11.60	1.86	-63.61	QP
12		18.92	54.00	-4.10	-15.70	11.60	1.86	-58.10	Average



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Neutral

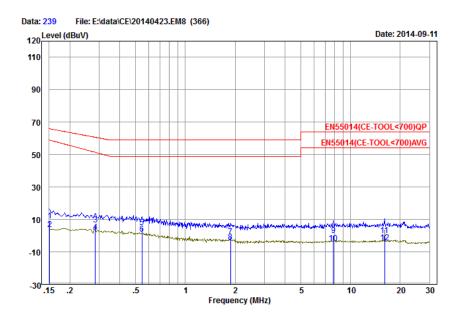


-	Freq	Limit Line	Level	Read	Factor	Cable Loss	Over Limit	Remark
	MHz	dBuV	dBuV	dBuV	dB	dB	dB	
1	0.15	65.95	16.64	5.75	10.89	1.18	-49.31	QP
2	0.15	58.92	4.05	-6.84	10.89	1.18	-54.87	Average
3	0.18	64.42	7.90	-2.91	10.81	1.13	-56.52	QP
4	0.18	56.75	2.54	-8.27	10.81	1.13	-54.21	Average
5	0.35	59.04	6.75	-3.99	10.74	1.10	-52.29	QP
6	0.35	49.06	2.11	-8.63	10.74	1.10	-46.95	Average
7	0.85	59.00	3.10	-7.83	10.93	1.30	-55.90	QP
8	0.85	49.00	-0.52	-11.45	10.93	1.30	-49.52	Average
9	3.07	59.00	0.17	-10.83	11.00	1.35	-58.83	QP
10	3.07	49.00	-4.37	-15.37	11.00	1.35	-53.37	Average
11	15.80	64.00	0.85	-10.63	11.48	1.73	-63.15	QP
12	15.80	54.00	-3.85	-15.33	11.48	1.73	-57.85	Average



Results with 220-240 Vac

Line

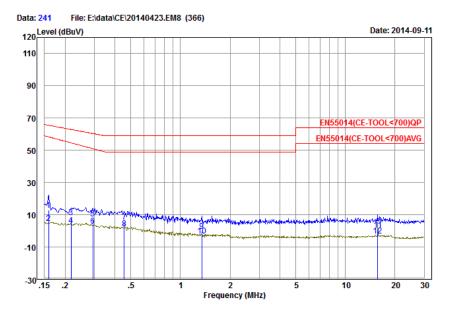


		Limit		Read		Cable	0ver	
	Freq	Line	Level	Level	Factor	Loss	Limit	Remark
	MHz	dBuV	dBuV	dBuV	dB	dB	dB	
1	0.15	65.96	9.16	-1.72	10.88	1.18	-56.80	QP
2	0.15	58.94	3.83	-7.05	10.88	1.18	-55.11	Average
3	0.28	60.70	6.62	-4.06	10.68	1.10	-54.08	QP
4	0.28	51.43	2.44	-8.24	10.68	1.10	-48.99	Average
5 qp	0.55	59.00	5.01	-5.75	10.76	1.15	-53.99	QP
6 pp	0.55	49.00	0.89	-9.87	10.76	1.15	-48.11	Average
7	1.88	59.00	-0.72	-11.76	11.04	1.39	-59.72	QP
8	1.88	49.00	-3.81	-14.85	11.04	1.39	-52.81	Average
9	7.85	64.00	0.15	-10.89	11.04	1.37	-63.85	QP
10	7.85	54.00	-4.60	-15.64	11.04	1.37	-58.60	Average
11	16.05	64.00	0.21	-11.24	11.45	1.74	-63.79	QP
12	16.05	54.00	-4.37	-15.82	11.45	1.74	-58.37	Average



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Neutral



	Freq	Limit Line	Level	Read Level	Factor	Cable Loss	Over Limit	Remark
	MHz	dBuV	dBuV	dBuV	dB	dB	dB	
1	0.16	65.52	12.78	1.92	10.86	1.16	-52.74	QP
2	0.16	58.31	4.61	-6.25	10.86	1.16	-53.70	Average
3	0.22	62.94	8.49	-2.28	10.77	1.10	-54.45	QP
4	0.22	54.62	3.70	-7.07	10.77	1.10	-50.92	Average
5	0.29	60.44	7.43	-3.32	10.75	1.10	-53.01	QP -
6	0.29	51.06	3.07	-7.68	10.75	1.10	-47.99	Average
7	0.46	59.00	5.63	-5.09	10.72	1.10	-53.37	QP
8	0.46	49.00	1.47	-9.25	10.72	1.10	-47.53	Average
9	1.34	59.00	-0.26	-11.23	10.97	1.34	-59.26	QP
10	1.34	49.00	-3.18	-14.15	10.97	1.34	-52.18	Average
11	15.72	64.00	0.79	-10.69	11.48	1.73	-63.21	QP
12	15.72	54.00	-3.10	-14.58	11.48	1.73	-57.10	Average

Refer to chapter 6 for the test set-up.

Conclusion:





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4.2 **Disturbance Power**

Standard	EN 55014-1	
Frequency [MHz]	QP [dB(pW)]	AV [dB(pW)]
30 – 300	45 – 55 *)	35 – 45 *)

*) Limits increasing linearly with the frequency

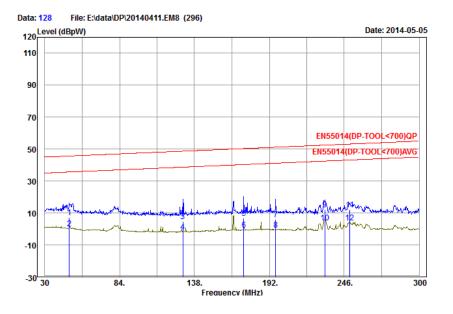
For tools the following limits apply to the AC Mains port:

\checkmark	Rated motor power not exceeding 700 W	Limits as above
	Rated motor power above 700 and not exceeding 1000 W	Limits +4 dB
	Rated power above 1000 W	Limits +10 dB

Port	AC Mains
Mode	On mode



Results with 110-120 Vac

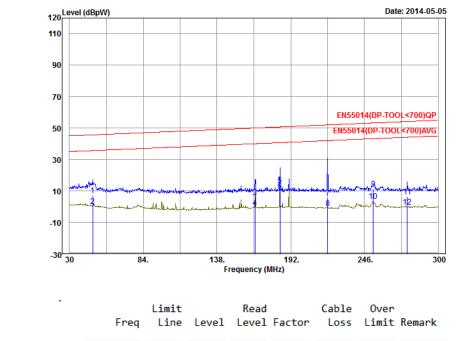


	Freq	Limit Line	Level	Read Level	Factor	Cable Loss	Over Limit	Remark
	MHz	dBpW	dBpW	dBpW	dB	dB	dB	
1	47.82	45.67	7.04	-12.66	19.70	0.84	-38.63	QP
2	47.82	35.67	0.18	-19.52	19.70	0.84	-35.49	Average
3	129.63	48.70	4.56	-13.45	18.01	1.47	-44.14	QP
4	129.63	38.70	-1.89	-19.90	18.01	1.47	-40.59	Average
5	173.64	50.33	6.67	-11.84	18.51	1.93	-43.66	QP
6	173.64	40.33	-0.37	-18.88	18.51	1.93	-40.70	Average
7	196.59	51.18	6.02	-12.79	18.81	2.21	-45.16	QP
8	196.59	41.18	-0.60	-19.41	18.81	2.21	-41.78	Average
9	231.96	52.49	11.95	-6.95	18.90	2.37	-40.54	QP
10	231.96	42.49	3.83	-15.07	18.90	2.37	-38.66	Average
11	250.05	53.16	11.97	-6.94	18.91	2.42	-41.19	QP
12	250.05	43.16	3.84	-15.07	18.91	2.42	-39.32	Average



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				neau		CUDIC	0.00	
	Freq	Line	Level	Level	Factor	Loss	Limit	Remark
	MHz	dBpW	dBpW	dBpW	dB	dB	dB	
1	47.01	45.64	7.01	-12.72	19.73	0.81	-38.63	QP
2	47.01	35.64	0.10	-19.63	19.73	0.81	-35.54	Average
3	165.81	50.04	5.88	-12.80	18.68	2.11	-44.16	QP
4	165.81	40.04	-0.68	-19.36	18.68	2.11	-40.72	Average
5	184.17	50.72	13.78	-4.90	18.68	2.09	-36.94	QP
6	184.17	40.72	9.96	-8.72	18.68	2.09	-30.76	Average
7	219.00	52.01	5.67	-13.03	18.70	2.14	-46.34	QP
8	219.00	42.01	-0.96	-19.66	18.70	2.14	-42.97	Average
9	252.48	53.25	11.09	-7.79	18.88	2.39	-42.16	QP
10	252.48	43.25	3.34	-15.54	18.88	2.39	-39.91	Average

Refer to chapter 6 for the test set-up.

Results with 220-240 Vac

According to clause 4.1.2.3.2 (EN 55014-1):

Appliances are deemed to comply in the frequency range from 300 MHz to 1 000 MHz if both of the following conditions (1) and 2)) are fulfilled:

1) all emission readings from the equipment under test shall be lower than the applicable limits (Table 2a) reduced by the margin (Table 2b);

2) the maximum clock frequency shall be less than 30 MHz.

Conclusion: PASS



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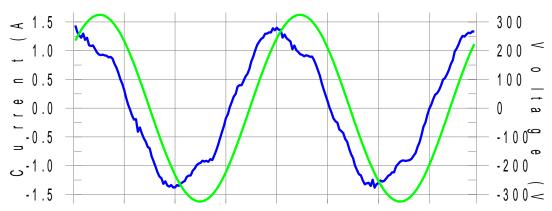
4.3 Harmonic currents

Standard	EN 61000-3-2
Port	AC Mains supply
Mode	On mode

	Class A	All apparatus not classified as Class B, C or D
✓	Class B	Portable tools
	Class C	Lighting equipment
	Class D	Personal computers, television receivers

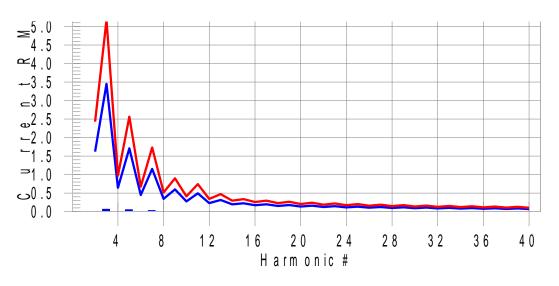
Results

Current & voltage waveforms



Harmonics and Class B limit line

European Limits



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Test Re	Test Result: Pass Source qualification: Normal						
THC(A)	: 0.09 I-TH	D(%): 9.89	POHC(A)): 0.000 PC	HC Limit(A):	0.377	
-	t parameter va V_RMS (Volts I_Peak (Amps I_Fund (Amps Power (Watts	s): 229.81 s): 1.547 s): 0.943	test:	Frequency(Hz) I_RMS (Amps) Crest Factor: Power Factor:	: 0.953 1.634		
Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20 21 22 23 24	0.002 0.065 0.002 0.055 0.002 0.033 0.002 0.004 0.002 0.004 0.002 0.004 0.002 0.004 0.002 0.004 0.002 0.003 0.002 0.003 0.003 0.003 0.003 0.003	1.620 3.450 0.645 1.710 0.450 1.155 0.345 0.600 0.276 0.495 0.230 0.315 0.197 0.225 0.173 0.199 0.153 0.178 0.138 0.161 0.125 0.147 0.115	0.1 1.9 0.4 3.2 0.5 2.9 0.6 0.6 0.7 1.5 1.0 1.3 1.1 1.6 1.2 1.4 1.6 1.6 1.8 1.7 2.3 1.9 2.0	0.003 0.070 0.003 0.057 0.003 0.034 0.002 0.004 0.002 0.004 0.003 0.005 0.002 0.004 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003	2.430 5.175 0.968 2.565 0.675 1.733 0.518 0.900 0.414 0.743 0.344 0.473 0.296 0.338 0.259 0.297 0.230 0.266 0.207 0.241 0.188 0.220 0.173	$egin{array}{c} 0.00\\ 1.34\\ 0.00\\ 2.23\\ 0.00\\ 1.97\\ 0.00\\ 0.00\\ 0.00\\ 1.04\\ 0.00\\ $	Pass Pass Pass Pass Pass Pass Pass Pass
25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	0.003 0.002 0.002 0.002 0.002 0.003 0.002 0.003 0.002 0.003 0.002 0.003 0.002 0.003 0.002 0.003	0.135 0.106 0.125 0.099 0.116 0.092 0.110 0.086 0.102 0.081 0.096 0.077 0.092 0.073 0.087 0.069	2.0 2.0 2.2 2.1 2.4 2.4 2.6 2.6 2.7 2.7 2.9 3.0 3.1 2.9 2.6	0.003 0.002 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003	0.203 0.159 0.188 0.148 0.175 0.138 0.163 0.129 0.153 0.122 0.145 0.115 0.137 0.109 0.130 0.104	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Pass Pass Pass Pass Pass Pass Pass Pass

Conclusion:





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4.4 Voltage fluctuations (Flicker)

Standard	EN 61000-3-3
Port	AC Mains supply
Voltage	230 V _{AC}
Mode	On mode

Equipment intended to be connected to 230/400 V_{AC} 50 Hz supply systems may not produce voltage fluctuations in the supply systems due to variation of the input current above the limits as stated below.

P _{ST}	Not applicable*
P _{LT}	Not applicable*
dt > 3,3%	\leq 500 ms
d _c	≤ 3 , 3%
d _{MAX}	≤ 7%

Results

Relative voltage change characteristic dt	0,0 ms
Maximum voltage change d _{MAX}	1,752%
Relative Voltage change dc	0,460%
Short term flicker P _{ST}	Not applicable*
Long term flicker P_{LT}	Not applicable*

In addition, this test was conducted in accordance with Annex B of EN 61000-3-3.

* The EUT belongs to hand-held tools (portable tools without heating elements), according to EN 61000-3-3, clause A.9, P_{ST} and P_{LT} shall not be evaluated.







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5 IMMUNITY TEST RESULTS

5.1 Electrostatic discharge immunity

Electrostatic discharges (ESD) are the result of persons or objects that accumulate static electricity due to for instance walking on synthetic carpets. The ESD can influence the operation of equipment or damage its electronics, either by a direct discharge or indirectly by coupling or radiation. Both effects are simulated during the tests.

Requirements

Standard	EN 55014-2			
Basic standard	EN 61000-4-2			
Port	Enclosure			
Performance criterion	B; During the test degradation is allowed.			
	No change of operating state or stored data is allowed.			
Air discharges	8 kV			
Contact discharges	4 kV			
Mode	On mode			

Performed tests

Air discharges	✓	4 kV	\checkmark	8 kV		15 kV		
Contact discharges	✓	2 kV	~	4 kV		8 kV		
Via coupling planes	✓	Horizontal			\checkmark	Vertical		
Polarity	✓	Positive			\checkmark	Negative		
Set-up	\checkmark	✓ Table-top				Floor st	andin	g
Ambient temperature	21 °C							
Relative Humidity air	48%							

Observations

During the test no loss of performance was observed. After the test the EUT functioned as intended. No unacceptable loss of performance was observed.

Conclusion:





5.2 **Electrical Fast Transient immunity**

The EFT immunity test simulates disturbances by bursts of very short transients caused for example by switching off loads such as an AC motor or bouncing relay contacts. The transients are likely to disturb electronics but less likely to cause damage.

Requirements

Standard	EN 55014-2					
Basic standard	EN 61000-4-4	EN 61000-4-4				
Performance criterion	B; During the test degrad	B; During the test degradation is allowed.				
	No change of operating state or stored data is allowed.					
Pulse characteristics	5/50 ns					
Peak Voltage; Port	1 kV; AC input power port					
Repetition frequency	✓ 5 kHz 2,5 kHz					

Performed tests

Tested Voltage; Port	1 kV	1 kV; AC input power port				
Mode	On n	On mode				
Injection method	✓	✓ CDN Capacitive clamp				
Polarity	✓	Positive	\checkmark	Negative		
Set-up	~	Table-top		Floor standing		

Observations

During the test no loss of performance was observed. After the test the EUT functioned as intended. No unacceptable loss of performance was observed.





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5.3 Surge transient immunity

The surge transient immunity test simulates the surges that are caused by overvoltages due to indirect (induced) lightning transients. The pulse is a slow transient with high-energy contents and due to its long duration may cause damage to an unprotected EUT.

Requirements

Standard	EN 55014-2
Basic standard	EN 61000-4-5
Performance criterion	B; During the test degradation is allowed.
	No change of operating state or stored data is allowed.
Pulse characteristics	1,2/50 µs
Peak Voltage; Port	1 kV; AC input power port (Line to line)
Feak Vollage, Foll	2 kV; AC input power port (Line to earth)

Performed tests

Tested Voltage; Port	1 kV; AC input power port (Line to line) 2 kV; AC input power port (Line to earth)					
Mode	On mode					
Polarity	\checkmark	 ✓ Positive ✓ Negative 				

Observations

During the test no loss of performance was observed. After the test the EUT functioned as intended. No unacceptable loss of performance was observed.

Conclusion: **PASS**



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5.4 **RF Conducted immunity**

During this test the immunity of the equipment for induced or conducted electromagnetic fields is checked. Fields generated by radio and other transmitters cause RF voltages in long cables like the mains network. This test reproduces these induced disturbing voltages by injecting them to the EUT via the cabling.

Requirements

Standard	EN 55014-2
Basic standard	EN 61000-4-6
Performance criterion	A; Operation as intended
Frequency range	0,15 – 230 MHz
Modulation	1 kHz – 80% AM
Test level; Port	3 V; AC input power port

Performed tests

Tested level; Port	3 V;	AC input power port		
Mode	On mode			
Frequency range	0,15 – 230 MHz			
Dwell time	3 seconds			
Injection method	\checkmark	CDN-M3		EM clamp

Observations

During the test no loss of performance was observed. After the test the EUT functioned as intended. No unacceptable loss of performance was observed.





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5.5 **Power supply interruptions and dips**

Requirements

Basic standard	EN 61000-4-11
Performance criterion	B; During the test degradation is allowed.
	No change of operating state or stored data is allowed.
	C; Temporary, self-recoverable loss of function is
	allowed.

Standard	EN 5	5014-2		
AC input power port			50 Hz	60 Hz
	С	U _{NOM} – 30%	(25 periods)	(30 periods)
	С	U _{NOM} – 60%	(10 periods)	(12 periods)
	С	U _{NOM} – 100%	(0,5 period)	(0,5 period)

Performed tests

Tested voltage	AC input power port		
Mode	On mode		
AC input power port	50 Hz	60 Hz	
	U _{NOM} – 30% (25 periods)	U _{NOM} – 30% (30 periods)	
	U _{NOM} – 60% (10 periods)	U _{NOM} – 60% (12 periods)	
	U _{NOM} – 100% (0,5 period)	U _{NOM} – 100% (0,5 period)	

Observations

During the test no loss of performance was observed. After the test the EUT functioned as intended. No unacceptable loss of performance was observed.





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6 IDENTIFICATION OF THE EQUIPMENT UNDER TEST

The photograph shows the tested device.



Figure 3 Conducted Emission test setup



Figure 4 Disturbance power test setup

-----END------END------