



Report No.: EMC 1710133 File reference No.: 2017-11-02

Applicant:

Mid Ocean Brands B.V.

Product:

Camping light

Brand Name:

N/A

Model No .:

MO9235

Test Standards:

EN 55015: 2013+A1:2015

EN 61547: 2009 EN 61000-3-2: 2014 EN 61000-3-3:2013

Test result:

The EMC testing has been performed on the submitted samples and found in compliance with council EMC Directive 2014/30/EU.

Approved By

Terry Tang Manager

Dated:

Nove.,02 2017

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES.

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen, Guangdong China

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Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The 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 No.: 899988.

IC- Registration No.: IC5205A-02

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-02.

VCCI- Registration No.: R-3015 and C-3332

The EMC Laboratory has been registered and fully described in a report filed with the (VCCI) Voluntary Control Council for Interference. The acceptance letter from the VCCI is maintained in our files. Registration IC No.: R-3015 and C-3332

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1.0 General Details

1.1 Test Lab Details

Name:

SHENZHEN TIMEWAY TESTING LABORATORIES

Address:

Room 512-519,5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District,

Shenzhen, Guangdong China

Telephone:

(086) 755-83448688

Fax:

(086) 755-83442996

1.2 Applicant Details

Applicant:

Mid Ocean Brands B.V.

Address:

Unit 201, 2/F, Laford Centre, 838 Lai Chi Kok Road, Cheung Sha Wan, Kowloon,

Hong Kong

Telephone:

__

Fax:

__

1.3 Description of EUT

Product:

Camping light

Manufacturer:

Mid Ocean Brands B.V.

Address:

Unit 201, 2/F, Laford Centre, 838 Lai Chi Kok Road, Cheung Sha Wan, Kowloon,

Hong Kong

Brand Name:

N/A

Model Number:

MO9235

Adding Model Number: N/A

Rating: --

The Difference between models:--

1.4 Submitted Sample

1 sample

1.5 Test Duration

2017-10-30 to 2017-11-02

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions Uncertainty =4.7dB

1.7 Test or witness Engineer

The sample tested by

Print Name: Leo Lau

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2.0 List of Measurement Equipment

2.1 Conducted Emission Test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESH3	860905/006	RS	2017.06.11	1Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2017.06.11	1Year
PULSE LIMITER	ESH3-Z2	100281	RS	2017.06.11	1Year
LISN	ESH3-Z5	100294	RS	2017.06.11	1Year
LISN	ESH3-Z5	100253	RS	2017.06.11	1Year

2.2 Radiated Disturbance Test

				Calibration	Calibration
Name	Model No	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESVD	100008	RS	2017.06.11	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer	8595E	3441A00893	HP	2017.06.11	1Year
Amplifier	8447D	2727A05017	HP	2017.06.11	1Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2017.06.11	1Year

2.3 Harmonic & Flicker Test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
Harmonics Flicker Test System	PACS-1	72305	CI	2017.06.11	1Year
5K VA AC Power Source	5001iX	56060	CI	2017.06.11	1Year

2.4 ESD Test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
ESD Simulator	ESS-2002	ESS06Y6394	NoiseKen	2017.06.11	1Year

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2.5 RF field Strength Susceptibility

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
Signal Generator	SMT03	100059	RS	2017.06.11	1Year
Power Meter	NRVS		RS	2017.06.11	1Year
Voltage Probe	URV5-Z2	100012	RS	2017.06.11	1Year
Voltage Probe	URV5-Z2	100013	RS	2017.06.11	1Year
Power Amplifier	150W1000	300999	AR	2017.06.11	1Year
Power Amplifier	25S1G4AM1	305993	AR	2017.06.11	1Year
Field Probe	CBL6111C	2576	Holaday	2017.06.11	1Year
Bilog Antenna	MCDC		Chase	2017.06.11	1Year

2.6 Electrical Fast Transient/Burst (EFT/B) Immunity test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EFT Generator	UCS 500 M4	0304-42	EM TEST	2017.06.11	1Year
Power Source	MV2616	0104-14	EM TEST	2017.06.11	1Year

2.7 Surge Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle	
Ultra Compact	UCS 500			2017.06.11		
Simulator	M4	0304-42	EM TEST		1Year	
Power Source	MV2616	0104-14	EM TEST	2017.06.11	1Year	

2.8 Conducted Immunity Test

					Calibration	Calibration
Name		Model No.	Serial No.	Manufacturer	Date	Cycle
Continuous	Wave				2017.06.11	
Simulator		CWS 500C	0407-05	EM TEST		1 Year

2.9 Power-frequency Magnetic Field

	1 2					
					Calibration	Calibration
Name		Model No.	Serial No.	Manufacturer	Date	Cycle
Continuous	Wave	UCS 500 M4	0304-42		2017.06.11	
Simulator		UCS 300 M4	0304-42	EM TEST		1 Year
Power	Source	MV 2616	0104-14	EM TEST	2017.06.11	1 Year

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Network					
Current Transformer	MC2630		EM TEST	2017.06.11	1 Year
Magnetic Coil	MS100	0304-42	EM TEST	2017.06.11	1 Year

2.10 Voltage Dips/Interruption Immunity Test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
Ultra Compact				2017.06.11	
Simulator	UCS 500 M4	0304-42	EM TEST		1Year
Power Source	MV2616	0104-14	EM TEST	2017.06.11	1Year

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3.0 Technical Details

3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] & Electromagnetic Suspectability [EMS] tests for CE Marking

3.2 Test Standards

	Test Standards			
EN 55015: 2013+A1:2015		Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment		
EN 61000-3-2: 2014		patibility(EMC)- Part 3-2:Limits-Limits for harmonic pment input current ≤16A per phase)		
EN61000-3-3: 2013	Electromagnetic compatibility (EMC)- Part 3-3:Limits-Limitation of voltage changes, Voltage fluctuations and flicker in public low-voltage supply systems. For equipment with rated current ≤16A per phase and not subject to conditional connection			
EN 61547: 2009	Equipment for general	Equipment for general lighting purposes—EMC immunity requirements		
	EN 61000-4-2:2009	Electrostatic discharge		
	EN 61000-4-3:2006	RF field strength susceptibility		
	EN 61000-4-4:2012	Electrical Fast transients		
	EN 61000-4-5:2014	Surge		
	EN 61000-4-6:2009	Conducted susceptibility		
	EN 61000-4-8:2010 Magnetic Field			
	EN 61000-4-11:2004	Dips/Voltage Interruption Variation		

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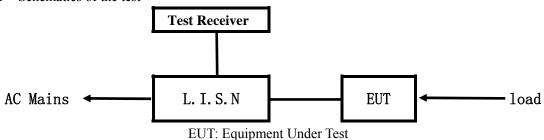
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4.0 Disturbance Voltage Test

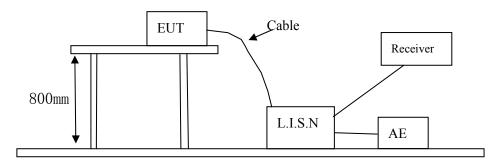
4.1 Schematics of the test



4.2 Test Method:

The test was performed in accordance with EN 55015: 2013+A1:2015

Block diagram of Test setup



4.3 Disturbance Voltage Limits

A Disturbance Voltage Limits at mains terminals

Farmer (MIII.)	Limits dB(µ V)		
Frequency(MHz)	Quasi-peak Level	Average Level	
9kHz to 50kHz	110		
50kHz to 150kHz	90 to 80		
150kHz to 0.5MHz	66 to 56	56 to 46	
0.5MHz to 2.51MHz	56	46	
2.51MHz to 3.0MHz	73	63	
3.0MHz to 5.0MHz	56	46	
5.0MHz to 30.0MHz	60	50	

Notes: 1.decreasing linearly with logarithm of the frequency in the range 50kHz to 150kHz and 150kHz to 0.5MHz.

2. The lower limit shall apply at the transition frequencies

B Disturbance Voltage Limits at load terminals

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Emaguem av (MII.g.)	Limits dB(μ V)		
Frequency(MHz)	Quasi-peak Level	Average Level	
0.15MHz to 0.50MHz	80	70	
0.50MHz to 30MHz	74	64	

^{*}At the transition frequency, the lower limit applies.

C Disturbance Voltage Limits at Control terminals

Emaguem av (MIII.)	Limits dB(μ V)		
Frequency(MHz)	Quasi-peak Level	Average Level	
0.15MHz to 0.50MHz	84 to 74	74 to 64	
0.50MHz to 30MHz	74	64	

^{*} The limits decrease linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz

4.4 Test Results

Limits for Conducted Emission test, Please refer to limit line (Quasi-peak) in the following diagram labelled as (QP)

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A: Disturbance Voltage Limits at mains terminals (9kHz to 30MHz)

EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition:

Results: N/A

Please refer to following diagram for individual

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Disturbance Voltage Limits at Load terminals (150kHz to 30MHz)

EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: --

Results: N/A

Please refer to following diagram for individual

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5.0 Radiated electromagnetic disturbances

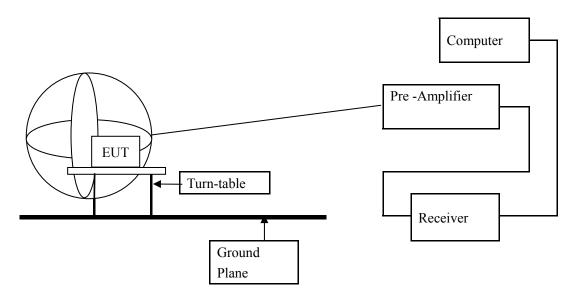
5.1 Schematics of the test



5.2 Test Method:

The test was performed in accordance with EN 55015: 2013+A1:2015

Block diagram of Test setup



5.3 Radiated electromagnetic disturbances Limits

Frequency Range	Lir	Limits for loop diameter (dB µ A)		
(MHz)	2m	3m	4m	
9kHz to 70kHz	88	81	75	
70kHz to 150kHz	88 to 58	81 to 51	75 to 45	
150kHz to 2.2MHz	58 to 26	51 to 22	45 to 16	
2.2MHz to 3.0MHz	58	51	45	
3.0Hz to 30MHz	22	15 to 16	9 to 12	

Note: 1. The lower limit shall apply at the transition frequencies

- 2.Decreasing linearly with the logarithm of the frequency.
- 3.Increasing linearly with the logarithm of the frequency.

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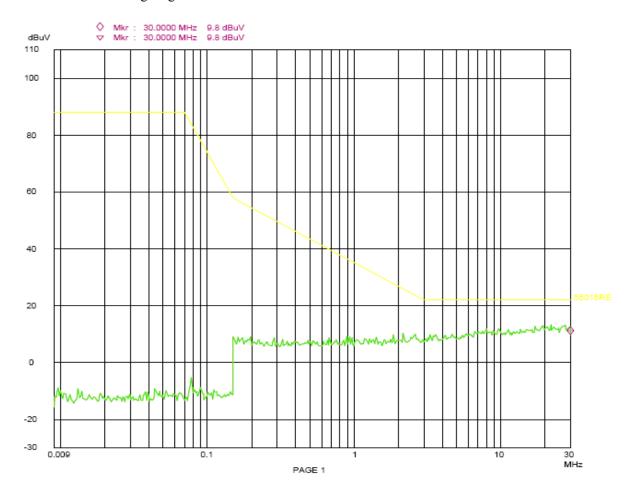


5.4 Radiated electromagnetic disturbances in X (9kHz to 30MHz)

EUT set Condition: ON

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level (dBμA)	field directions	Limit (dBµV/m)
-	-	X	-
-	-	X	-

The test data shows much less than the limit, no necessary take the results.

Date: 2017-11-02

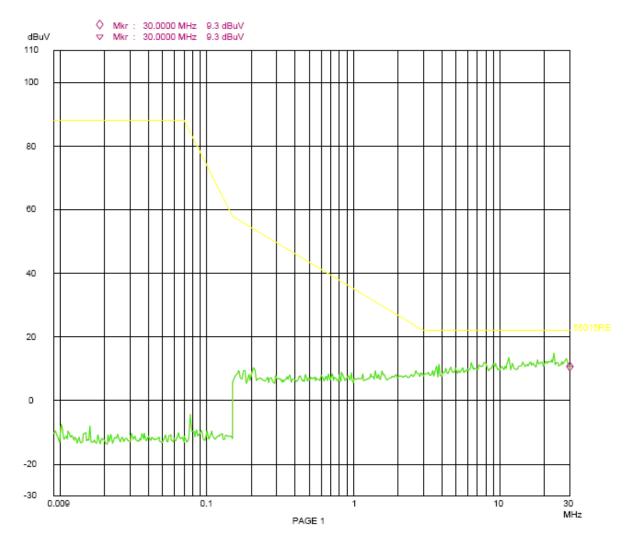


Radiated electromagnetic disturbances in Y (9kHz to 30MHz)

EUT set Condition: ON

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level (dB \mu A)	field directions	Limit (dB µ V/m)
-	-	Y	-
-	-	Y	-

The test data shows much less than the limit, no necessary take the results.

Date: 2017-11-02

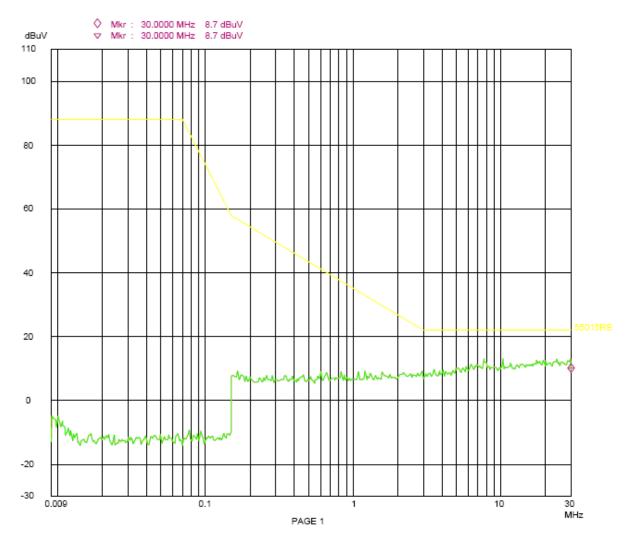


Radiated electromagnetic disturbances in Z (9kHz to 30MHz)

EUT set Condition: ON

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level (dB \mu A)	field directions	Limit (dB µ V/m)
-	-	Z	-
-	-	Z	-

The test data shows much less than the limit, no necessary take the results.

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6.0 Radiated Disturbance Test

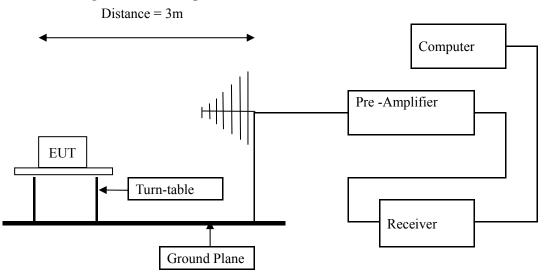
6.1 Schematics of the test



6.2 Test Method:

The test was performed in accordance with EN 55015: 2013+A1:2015

Block diagram of Test setup



6.3 Power line conducted Emission Limit

Frequency Range (MHz)	Quasi-Peak limits (dB μ V/m)
30-230	40.00
230-300	47.00

Note: The lower limit shall apply at the transition frequencies

6.4 Test result

Please refer to following table

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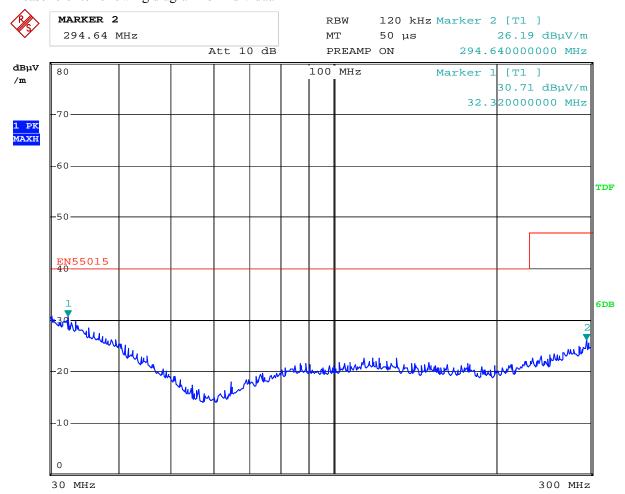


A: Radiated Disturbance In Horizontal (30MHz----1000MHz)

EUT set Condition: Light ON

Results: Pass

Please refer to following diagram for individual



Date: 1.NOV.2017 14:28:41

	Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB µ /m)
	294.640	26.19	Н	47.00
ĺ	32.320	30.71	Н	40.00

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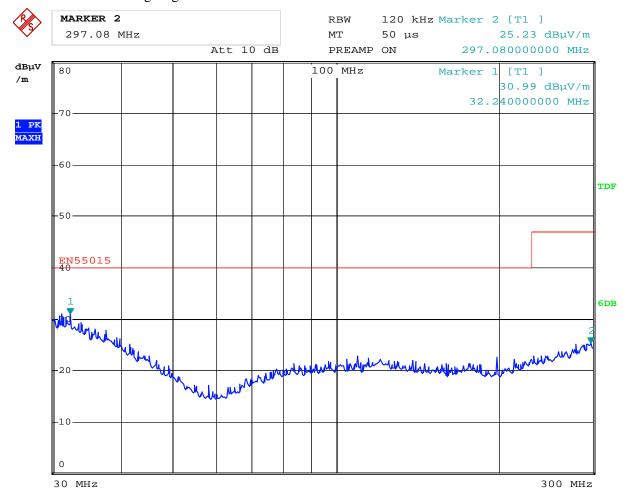


B: Radiated Disturbance In Vertical (30MHz----1000MHz)

EUT set Condition: Light ON

Results: Pass

Please refer to following diagram for individual



Date: 1.NOV.2017 14:34:13

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
297.080	25.23	V	47.00
32.240	30.99	V	40.00

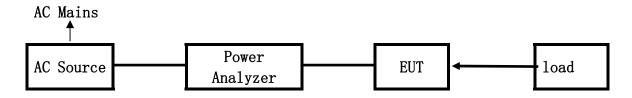
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7.0 Voltage Fluctuations & Flicker Test

7.1 Schematic of the test



EUT: Equipment Under Test

7.2 Test Method:

The test was performed in accordance with EN 61000-3-3: 2013

7.3 Test Results

Result: N/A

N/A --- DC Operation

Please refer to the following pages

Maximum Occurring Levels:

Ut: 230.01	(EUT	Test RMS Vo	ltage)	
Pst:		Limit=	1.0	(The Highest short Term Flicker Value)
Plt:		Limit=	0.65	(The Highest Long Term Flicker Value)
dt(%):		Limit=	3.3%	(The Highest instantaneous Voltage Change (10ms))
dc(%):		Limit=	3.3%	(The highest Relative steady state voltage change (1sec))
dmax:		Limit=	4%	(The highest Max Relative voltage change)
Tdt:		Limit=	500ms	(The Max Time(in milli-sec) that dt exceeds 3%)

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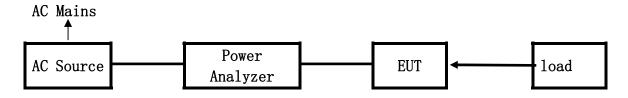
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8.0 Harmonic Current Emission Test

8.1 Schematic of the test



EUT: Equipment Under Test

8.2 Test Method

The test was performed in accordance with EN 61000-3-2: 2014

*: The Level of the product is: CLASS C

8.3 Test Results: N/A

N/A --- DC Operation

Rating:

Harmonic results as a% of the limits

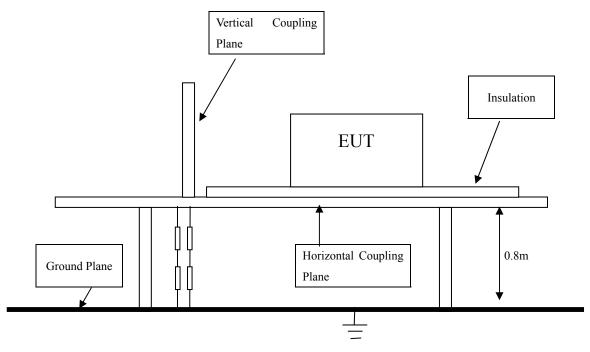
No	(Test	No	(Test	No	(Test	No	(Test
	result/Limit)%		result/Limit)%		result/Limit)%		result/Limit)%
1		11		21		31	
2	-	12	1	22	-	32	
3		13	1	23	1	33	
4		14	1	24	1	34	
5		15	-	25	-	35	
6		16	-	26	1	36	
7	-	17	-	27	1	37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

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9.0 Electrostatic Discharge

9.1 Schematic of the test



9.2 Test method

The test was performed in accordance with EN 61000-4-2:2009

9.3 Test severity

- $\pm 4kV$ for direct & in-direct Contact Discharge
- ±8kV for air Discharge

Performance Criterion Require: B (Please see following table)

9.4 Susceptibility performance Criteria and Severity level

A	Normal performance within the specification limits
В	Temporary degradation or loss of function or performance which is
	self recoverable
С	Temporary degradation or loss of function or performance which
	requires operator intervention or system reset
D	Degradation or loss of function which is not recoverable due to
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Severity Level

Level	Test Voltage Direct & in-direct contact	Test Voltage Air
	Discharge (kV)	discharge(kV)
1	±2kV	$\pm 2kV$
2	$\pm 4 \mathrm{kV}$	$\pm 4 \mathrm{kV}$
3	±6kV	±8kV
4	±8kV	±15kV

9.5 Test Result

Please refer to the following table for individual results.

Location	Discharge Method	Test Voltage	Results
HCP (Horizontal coupling plane)	In-Direct	$\pm 2kV$, $\pm 4kV$	Pass
VCP (Vertical Coupling plane)	In-Direct	$\pm 4kV \pm 4kV$	Pass
Shell	In-Direct	$\pm 2kV$, $\pm 4kV$	Pass
Shell	Air Discharge	$\pm 2kV$, $\pm 4kV$, $\pm 8kV$	Pass
Gap	Air Discharge	$\pm 2kV$, $\pm 4kV$, $\pm 8kV$	Pass
Cable	Air Discharge	$\pm 2kV$, $\pm 4kV$, $\pm 8kV$	Pass
Connector	Air Discharge	$\pm 2kV$, $\pm 4kV$, $\pm 8kV$	Pass

Remark: Calculated measurement uncertainty= 0.2kV

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10.0 RF field strength susceptibility (80MHz----- 1000MHz)

10.1 Schematics of the test



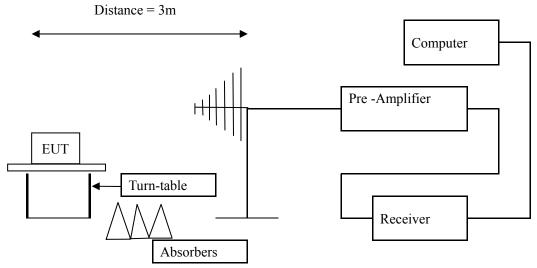
10.2 Test Method:

The test was performed in accordance with EN 61000-4-3: 2006

Severity: Level 2 (3V/m) Modulation: 80% AM

Performance Criterion Require: A (Please see following table)

Block diagram of Test setup



10.3 Susceptibility performance Criteria and severity Level

Susceptibility performance Criteria

1 71	
A	Normal performance within the specification limits
В	Temporary degradation or loss of function or performance which is
	self recoverable
С	Temporary degradation or loss of function or performance which
	requires operator intervention or system reset
D	Degradation or loss of function which is not recoverable due to
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Severity Level

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Level	Field Strength (V/m)	
1	1	
2	3	
3	10	

10.4 Test Result:

Please refer to the following table for individual results.

Frequency (MHz)	Face	Polarity	Level (V/m)	Dwell Time(s)	Sweep Rate (%)	Results
80-1000	0°	Horizontal	3	1	1	Pass
80-1000	90°	Horizontal	3	1	1	Pass
80-1000	180°	Horizontal	3	1	1	Pass
80-1000	270°	Horizontal	3	1	1	Pass
80-1000	0°	Vertical	3	1	1	Pass
80-1000	90°	Vertical	3	1	1	Pass
80-1000	180°	Vertical	3	1	1	Pass
80-1000	270°	Vertical	3	1	1	Pass

Remark: Calculated measurement uncertainty= 80MHz to 1000MHz (+3.7/-1.3) V/m

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11.0 Electrical Fast Transient/Burst (EFT/B) immunity test

11.1 Schematics of the test



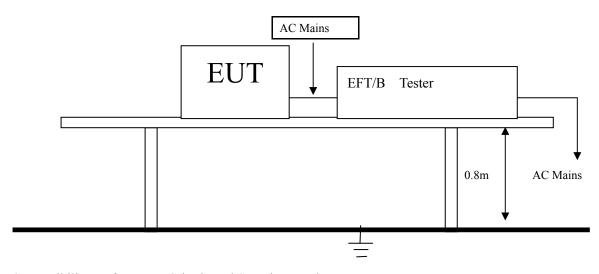
11.2 Test Method

The test was performed in accordance with EN 61000-4-4: 2012

Severity: Level 2 (1kV)

Performance Criterion Require: B (Please see following table)

Block diagram of Test setup



11.3 Susceptibility performance Criteria and Severity Level Susceptibility performance Criteria

A	Normal performance within the specification limits
В	Temporary degradation or loss of function or performance which is
	self recoverable
С	Temporary degradation or loss of function or performance which
	requires operator intervention or system reset
D	Degradation or loss of function which is not recoverable due to
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Severity Level

	Open Circuit output Test Voltage $\pm 10\%$					
Level	On power Supply Lines	On I/O (Input/output)				
		Signal data and control lines				
1	0.5kV	0.5kV				
2	1kV	1kV				
3	2kV	2kV				
4	4kV	4kV				
X	Special	Special				

11.4 Test Results

Please refer to following page.

Inject location:

Inject Line	Voltage kV	Inject Times (s)	Method	Results
L	±1	120	Direct	N/A
N	±1	120	Direct	N/A
L-N	±1	120	Direct	N/A

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12.0 Surge test

12.1 Schematics of the test

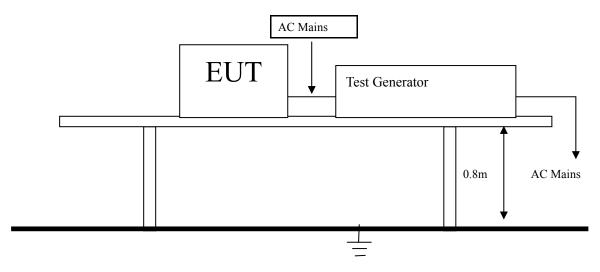


12.2 Test Method:

The test was performed in accordance with EN 61000-4-5: 2014 Severity: Level 2 (Below 25W Line to Neutral at 0.5kV)

Performance Criterion Require: C (Please see following table)

Block diagram of Test setup



12.3 Susceptibility performance Criteria and Severity Level Susceptibility performance Criteria

A	Normal performance within the specification limits		
В	Temporary degradation or loss of function or performance which is self recoverable		
С	Temporary degradation or loss of function or performance which requires operator intervention or system reset		
D	Degradation or loss of function which is not recoverable due to damage of equipment(components) or software, or loss of data		

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Severity Level

Severity Level	Open-Circuit Test Voltage	
	kV	
1	0.5	
2	1.0	
3	2.0	
4	4.0	
*	Special	

12.4 Test Results

Please refer to following page.

Test location:

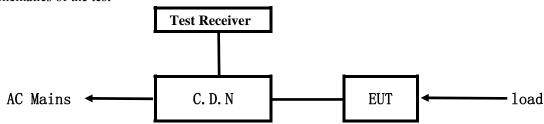
Location	Polarity	Phase	No of	Pulse	Results
		Angle	Pulse	Voltage(kV)	
LN	+	90	10	0.5	N/A
L-N	-	270	10	0.5	N/A

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13.0 Conducted Immunity test

13.1 Schematics of the test



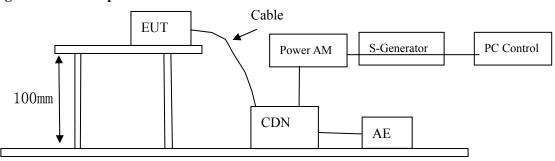
13.2 Test Method

The test was performed in accordance with EN 61000-4-6: 2009

Severity: Level 2 (3 V rms),0.15MHz—80MHz

Performance Criterion Require: A (Please see following table)

Block diagram of Test setup



13.3 Susceptibility performance Criteria and Severity Level

Susceptibility performance Criteria

A	Normal performance within the specification limits			
В	Temporary degradation or loss of function or performance which is			
	self recoverable			
С	Temporary degradation or loss of function or performance which			
	requires operator intervention or system reset			
D	Degradation or loss of function which is not recoverable due to			
	damage of equipment(components) or software, or loss of data			

Severity Level

Severity Level	Field Strength V/m	
1	1	
2	3	
3	10	
*	Special	

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13.4 Test Results

Please refer to the following page

C1 C				
Frequency	Injected Position	Strength	Criterion	Result
Range (MHz)				
0.15 - 20	AC Line	3V (rms)	Α	N/A
0.13 - 20	AC LINE	Unmodulated	A	1 \ / A
20 - 80	AC Line	3V (rms)	٨	N/A
20 - 80	AC LIIIC	Unmodulated	A	IN/A

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14.0 Power Frequency magnetic field test

14.1 Schematics of the test



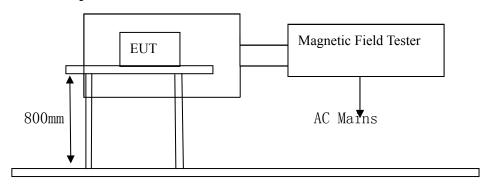
14.2 Test Method

The test was performed in accordance with EN 61000-4-8: 2010

Severity: Level 2 (3A/m),

Performance Criterion Require: A (Please see following table)

Block diagram of Test setup



14.3 Susceptibility performance Criteria and Severity Level

Susceptibility performance Criteria

A	Normal performance within the specification limits		
	1		
В	Temporary degradation or loss of function or performance which is		
	self recoverable		
С	Temporary degradation or loss of function or performance which		
	requires operator intervention or system reset		
D	Degradation or loss of function which is not recoverable due to		
	damage of equipment(components) or software, or loss of data		

Severity Level

Severity Level	Magnetic Field Strength A/m	
1	1	
2	3	
3	10	

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4	30	
5	100	
*	Special	

14.4 Test Results:

Please refer to the following page

	61 6			
Test Level	Testing Duration	Coil Orientation	Criterion	Result
3A/m	5 Mins	Horizontal	A	N/A
3A/m	5 Mins	Vertical	A	N/A

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15.0 Voltage Dips/Interruptions immunity test

15.1 Schematics of the test

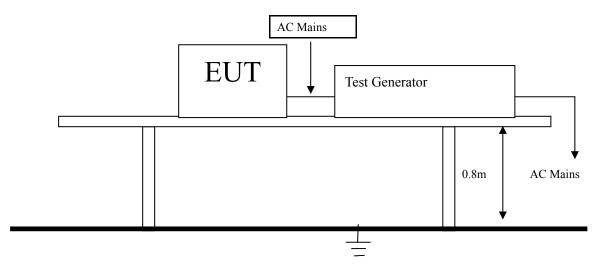


15.2 Test Method:

The test was performed in accordance with EN 61000-4-11: 2004

Performance Criterion Require: C&B (Please see following table)

Block diagram of Test setup



15.3 Susceptibility performance Criteria and Severity Level Susceptibility performance Criteria

A	Normal performance within the specification limits		
В	Temporary degradation or loss of function or performance which is self recoverable		
С	Temporary degradation or loss of function or performance which requires operator intervention or system reset		
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Severity Level

Voltage dip and short interruptions %Ut	Duration(in period)
100	0.5
100	1
60	5
00	10
	25
30	50
	Voltage dip and short interruptions %Ut 100 60 30

15.4 Test Result:

Please refer to the following page

Test Level	Voltage	Duration(in	Phase Angle	Criterion	Result
% Ut	dips &short	period)			
	interruptions %				
	Ut				
0	100	0.5P	0° - 360°	В	N/A
70	30	10P	0° - 360°	С	N/A

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16.0 Product Labelling

16.1 CE Mark label specification

Text of the mark is black or white in color and is left justified. Labels are printed in indelible ink on permanent adhesive backing and shall be affixed at a conspicuous location on the EUT or silk-screened onto the EUT.



16.2 Mark Location: Rear enclosure

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Appendix:

Photos of Testing



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Appendix:

Photos of the Product





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Appendix:

Photos of the Product





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Appendix:

Photos of the Product



-End of the report-