



**BUREAU
VERITAS**

TEST REPORT N° : ASCV-19AU3120LTSZP-B

EMC TEST REPORT

To :		Fax:	-
Attn:		Email:	-
Address:			
Cc :	-	Fax/Email	-
Attn:	-		
This document includes : 25 pages		Test date:	Nov., 12 to 29, 2018

FACTORY NAME :	Same as applicant	
ADDRESS:	Same as applicant	
PRODUCT:	LED Tri-proof Light	
TYPE REFERENCE :	Refer to clause 31 of this report	
RATED VOLTAGE :	Refer to clause 31 of this report	
RATED INPUT POWER:	Refer to clause 31 of this report	
PROTECTION CLASS :	I	
TESTS REALISED :	IT-L TF-5F-60W	
STANDARDS USED(DATE):	EN 55015:2013+A 1:2015 EN 61547:2009 EN 61000-3-2:2014 EN 61000-3-3:2013	
CLAUSES EXAMINED :	All Clauses Relevant	

All the tests done in this report are subcontracted to Zhongshan ENTRY-EXIT INSPECTION AND QUARANTINE BUREAU.

CONCLUSION :		The samples do satisfy the clauses examined .
Test done by, Project Manager		Approved by, Project Manager
Name: Jack DAI	Date : Sept., 19, 2019	Name: Eddie HU Date : Sept., 19, 2019



This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specifically mentioned, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.

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1 TESTING PROGRAM

The tests have been carried out according to the requirements of the following standards:

Emission standard EN 55015:2013+A1:2015

- Measurement of the continuous conducted emission levels.
- Measurement of the radiated emission levels.

Immunity standard EN 61547:2009

- Immunity to electrostatic discharges - publication IEC 61000-4-2.
- Immunity to radiated radio-frequency electromagnetic field with amplitude modulation - publication IEC 61000-4-3.
- Immunity to fast transients/bursts - publication IEC 61000-4-4.
- Immunity to surges - publication IEC 61000-4-5.
- Immunity to conducted disturbances induced by radio-frequency fields - publication IEC 61000-4-6.
- Immunity to voltage dips -publication IEC 61000-4-11.
- Immunity to voltage interruptions - publication IEC 61000-4-11.

Emission standard EN 61000-3-2:2014

- Measurement of the harmonic currents.

Emission standard EN 61000-3-3:2013

- Measurement of the voltage fluctuations.

Special Comment: Refer to clause 3.1 of this test report for more information.

2 HISTORY OF FAILURE

None.


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3 EQUIPMENT CHARACTERISTICS

3.1 Model list

No	Model	Rated Input	Rated Power	Remark
1.	IT-LTF-20W	AC 180-277V, 50/60Hz	20W	
2.	IT-LTF-4F-40W		40W	
3.	IT-LTF-5F-50W		50W	
4.	IT-LTF-5F-60W		60W	
5.	IT-L9-2F-20W		20W	
6.	IT-L9-4F-40W		40W	
7.	IT-L9-5F-50W		50W	
8.	IT-L9-5F-60W		60W	

Other aspects:

The manufacture declare all the model are identical to the basic model IT-LTF-5F-60W, only the difference is appearance.

1. Only the supply voltage range of AC 220-240V, voltage of general public power supply in EU countries, are considered in this test report. But still it is suggested to test also the 100V so that the customer can use the report in other counties.



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3.2 The photos of the EUT



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East Install LED Tri-proof Light L8

Model: IT-LTF-5F-60W

Input Voltage: AC220-240V

Dimension: 1500mm

Power: 60W

CCT: 5000K

CRI: > 80

Beam Angle: 120°

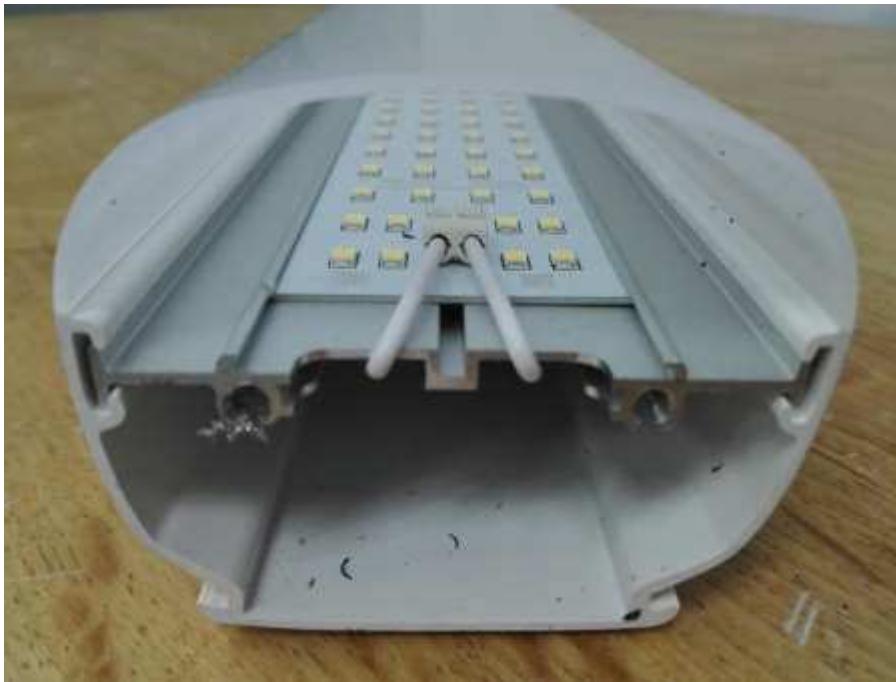
IP Grade: IP65

Date: 201909

INNO-TECH
ideas for lighting



RoHS



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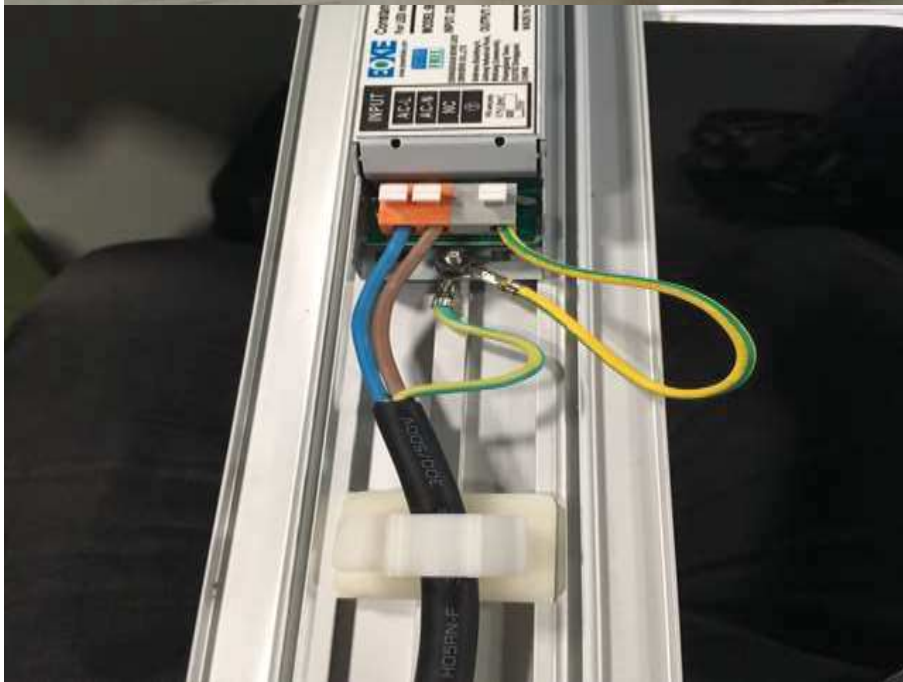
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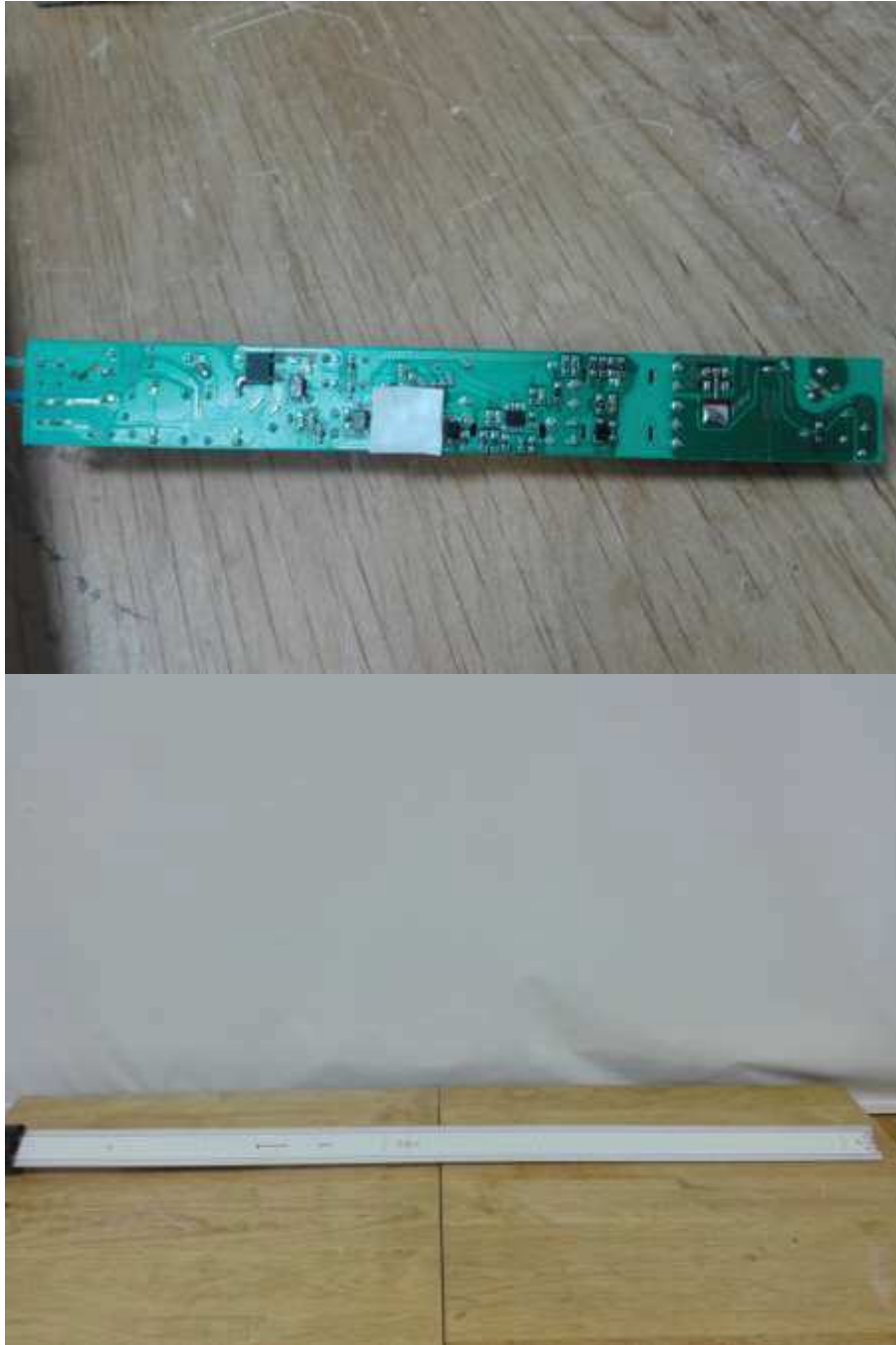
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6 TEST RESULTS

6.1 EMISSION STANDARD EN 55015:2013+A1:2015

Article	TEST	TEST SPECIFICATION	RESULTS			
			P	F	NA	Rem
4.3	<u>Disturbance Voltage</u>	Operating conditions : according to the article 6				
4.3.1	Mains terminals Frequency range: 0,009 to 30 MHz	Port(s) : • AC mains port Diagram(s) No. <1>	[X]	[]	[]	[]
4.3.2	Load and control terminals Frequency range : 0,009 to 30 MHz	• Load and control terminals Diagram(s) No. <>	[]	[]	[X]	[1]
4.4	<u>Radiated Electromagnetic Disturbance</u>	Operating conditions : according to the article 6				
4.4.1	Frequency range : 0,009 to 30 MHz	• 2 m Loop antenna Diagram (s) No. <2>	[X]	[]	[]	[]
4.4.2	<u>Radiated disturbance limit</u>	Operating conditions : according to the article 6				
	Frequency range: 30 to 300 MHz	Port(s) : Enclosure Measurement distance: 3 m Antenna Position • Vertical • Horizontal Diagram(s) No. <3>	[X] [X]	[] []	[] []	[] []

P : pass - F : Fail - NA : not applicable - Rem : remark



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6.2 IMMUNITY STANDARD EN 61547:2009

For lighting equipment containing active electronic components which e.g. convert or regulate the operating voltage and/or the frequency of the light source.

Article	TEST	TEST SPECIFICATION	RESULTS			
			P	F	NA	Re m
5.2	<u>Electrostatic discharges</u>	Contact discharges Level : ± 4 kV Application points :				
	Table 1 Enclosure Performance criteria B	<ul style="list-style-type: none"> • horizontal coupling plane • vertical coupling plane • Accessible screw 	[X] [X] [X]	[] [] []	[] [] []	[2] [2] [2]
	Performance criteria B	Air discharges Level : ± 8 kV Application points :				
		<ul style="list-style-type: none"> • Cable • plastic enclosure 	[X] [X]	[] []	[] []	[2] [2]
5.3	<u>Radio-frequency electromagnetic fields 80 to 1000 MHz</u>	Test field strength : 3 V/m (unmodulated signal) Modulation frequency : 1 kHz Modulation depth : 80 % Frequency Step : 1% Dwell Time : 3 s Logperiodic antenna :				
	Table 2 Enclosure Performance criteria A	<ul style="list-style-type: none"> • horizontal position • vertical position 	[X] [X]	[] []	[] []	[2] [2]
5.4	<u>Fast transients/bursts</u>	Level : ± 1 kV Rise time/hold time : 5/50 ns Repetition rate : 5 kHz Testing time : 2 min Port(s) :				
	Table 6 Alternative current power input and output ports Performance criteria B	<ul style="list-style-type: none"> • AC mains 	[X]	[]	[]	[2]

P : pass - F : Fail - NA : not applicable - Rem : remark



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Article	TEST	TEST SPECIFICATION	RESULTS			
			P	F	NA	Rem
5.5	<u>Injected current 0,15 to 80 MHz</u> Table 9 Alternative current power input and output ports Performance criterion A	Voltage level : 3 V (unmodulated signal) Modulation frequency : 1 kHz Modulation depth : 80 % Frequency Step : 1% Dwell Time: 3 s Application with CND-M2 Port(s) : • AC mains	[X]	[]	[]	[2]
5.6	<u>Surges</u> Table 10 Alternative current power input and output ports Performance criterion C	Tr/Th(μs) : 1.2/50 (8/20) Number of surges : ±5 pluse Phase angles : ±90° Level : ± 1.0kV Port(s) : • Phase to Neutral	[X]	[]	[]	[2]
	Performance criterion C	Level : ± 2.0kV Port(s) : • Phase to PE • Neutral to PE	[X] [X]	[] []	[] []	[2] [2]
5.7	<u>Voltage dips and voltage interruptions</u> Table 12 Alternative current power input and output port(s) Performance criterion B	<u>Voltage interruptions</u> Test level : 0 % U _t Duration : 10 ms Phase angles : 0° and 180° Port(s) : • AC mains	[X]	[]	[]	[2]
	Table 11 Alternative current power input and output port (s) Performance criterion C	<u>Voltage dips</u> Test level : 70 % U _t Duration : 200 ms Phase angles : 0° Port(s) : • AC mains	[X]	[]	[]	[2]

P : pass - F : Fail - NA : not applicable - Rem : remark



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6.3 EMISSION STANDARD EN 61000-3-2:2014

TEST	TEST SPECIFICATION	RESULTS			
		P	F	NA	Re m
<u>Limits for harmonic currents emission</u>	Frequency range: 0 to 2 kHz Class of the apparatus : C Rated input power : <input type="checkbox"/> ≤ 25W <input checked="" type="checkbox"/> > 25W Table(s) No. <1>	[X]	[]	[]	[]

P : pass – F : Fail – NA : not applicable – Rem : remark

6.4 EMISSION STANDARD EN 61000-3-3:2013

TEST	TEST SPECIFICATION	RESULTS			
		P	F	NA	Re m
<u>Limitation of voltage fluctuations and flicker in low-voltage supply systems</u>	Frequency range: 0 to 2 kHz Table(s) No. <>	[X]	[]	[]	[]

P : pass – F : Fail – NA : not applicable – Rem : remark

Remark(s) :

1. There are no load and control terminals.
2. During test, no change of operation state.
3. Belonging to Class II with adapter, Without PE Connection.

7 CONCLUSION

The apparatus LED Tri-proof Light and models listed in the clause 3.1 are in compliance with the requirements of the standards EN 55015:2013+A1:2015, EN 61547:2009, EN 61000-3-2:2014 and EN 61000-3-3:2013.

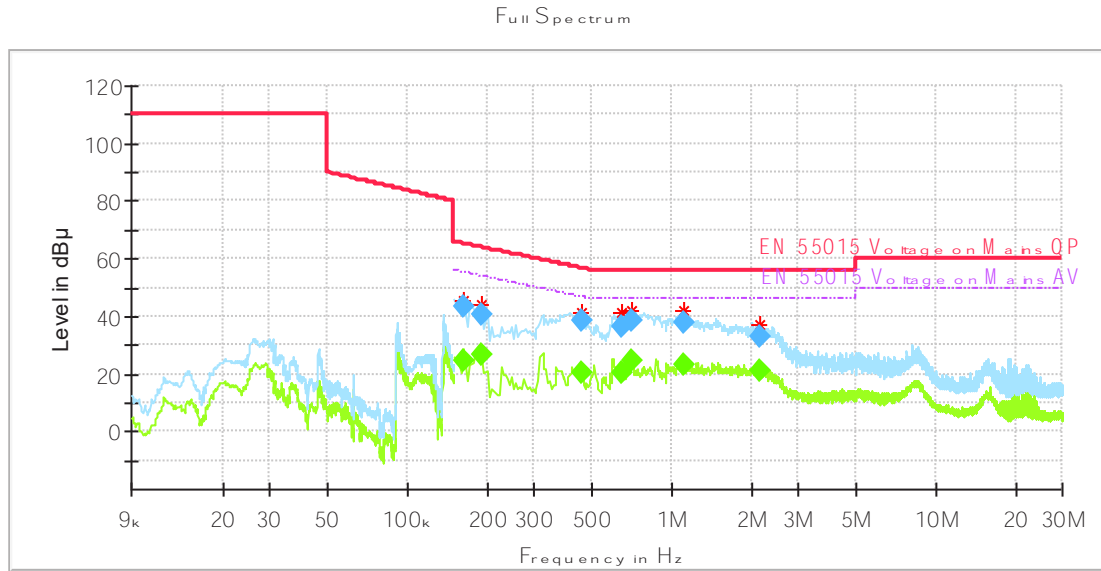


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Diagram No. 1: Conducted Emission

L Line



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.163500	---	24.53	55.28	30.76	1000.0	9.000	L1	ON	9.6
0.163500	43.33	---	65.28	21.95	1000.0	9.000	L1	ON	9.6
0.190500	---	26.95	54.02	27.07	1000.0	9.000	L1	ON	9.6
0.190500	40.73	---	64.02	23.28	1000.0	9.000	L1	ON	9.6
0.456000	---	20.25	46.77	26.52	1000.0	9.000	L1	ON	9.6
0.456000	38.38	---	56.77	18.38	1000.0	9.000	L1	ON	9.6
0.649500	---	20.73	46.00	25.27	1000.0	9.000	L1	ON	9.6
0.649500	36.33	---	56.00	19.67	1000.0	9.000	L1	ON	9.6
0.699000	---	24.92	46.00	21.08	1000.0	9.000	L1	ON	9.6
0.699000	38.73	---	56.00	17.27	1000.0	9.000	L1	ON	9.6
1.108500	---	23.19	46.00	22.81	1000.0	9.000	L1	ON	9.7
1.108500	37.83	---	56.00	18.17	1000.0	9.000	L1	ON	9.7
2.148000	---	21.12	46.00	24.88	1000.0	9.000	L1	ON	9.8
2.148000	33.18	---	56.00	22.82	1000.0	9.000	L1	ON	9.8

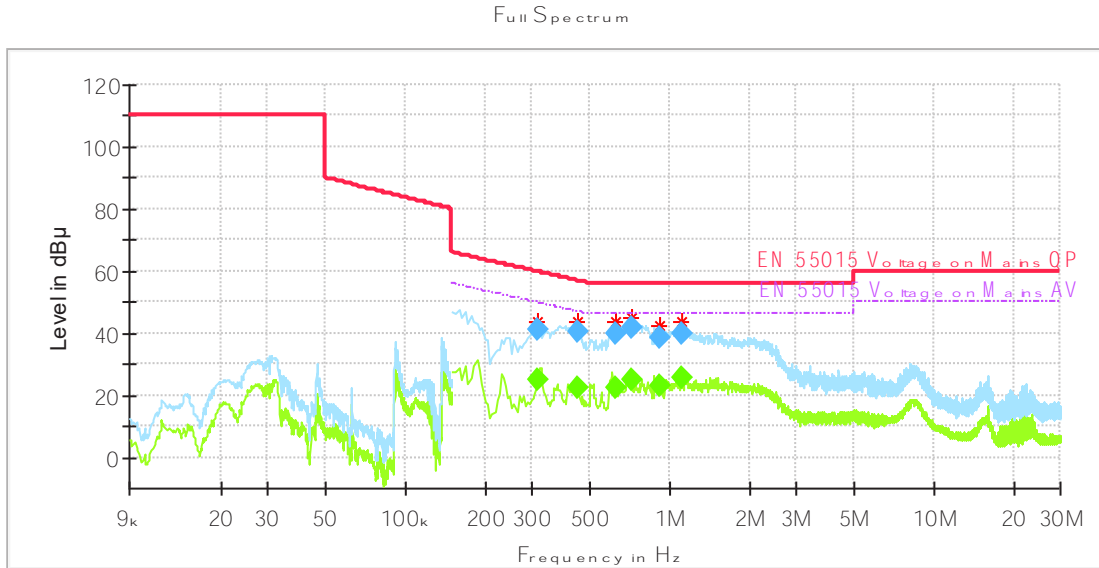


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Continued

N Line



Final Result

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.316500	---	25.22	49.80	24.58	1000.0	9.000	N	ON	9.6
0.316500	41.05	---	59.80	18.75	1000.0	9.000	N	ON	9.6
0.447000	---	22.18	46.93	24.75	1000.0	9.000	N	ON	9.6
0.447000	40.61	---	56.93	16.32	1000.0	9.000	N	ON	9.6
0.627000	---	22.43	46.00	23.57	1000.0	9.000	N	ON	9.6
0.627000	39.82	---	56.00	16.18	1000.0	9.000	N	ON	9.6
0.717000	---	24.77	46.00	21.23	1000.0	9.000	N	ON	9.6
0.717000	41.85	---	56.00	14.15	1000.0	9.000	N	ON	9.6
0.910500	---	23.24	46.00	22.76	1000.0	9.000	N	ON	9.6
0.910500	38.47	---	56.00	17.53	1000.0	9.000	N	ON	9.6
1.108500	---	25.85	46.00	20.15	1000.0	9.000	N	ON	9.7
1.108500	39.90	---	56.00	16.10	1000.0	9.000	N	ON	9.7

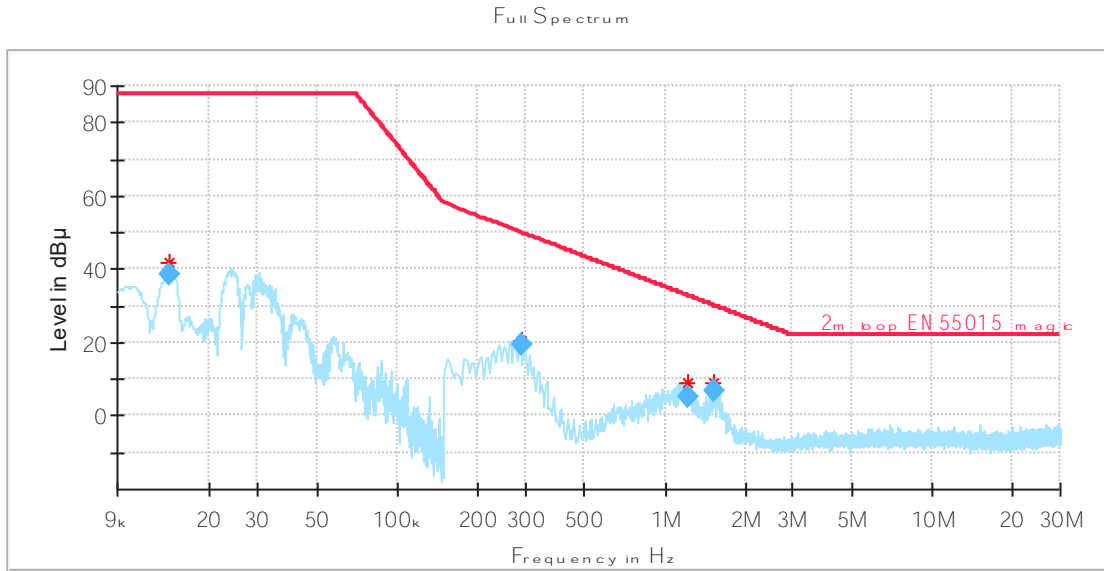


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Diagram No. 2: Radiated Emission in the frequency range 9kHz-30MHz

X Axis



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Axis	Corr. (dB)	Comment
0.014200	38.56	88.00	49.44	1000.0	0.200	X	0.0	15:56:50 - 2019/1/15
0.290000	19.23	50.08	30.85	1000.0	9.000	X	0.2	15:56:59 - 2019/1/15
1.210000	4.95	32.91	27.96	1000.0	9.000	X	0.2	15:57:03 - 2019/1/15
1.514000	6.59	30.22	23.62	1000.0	9.000	X	0.2	15:57:07 - 2019/1/15

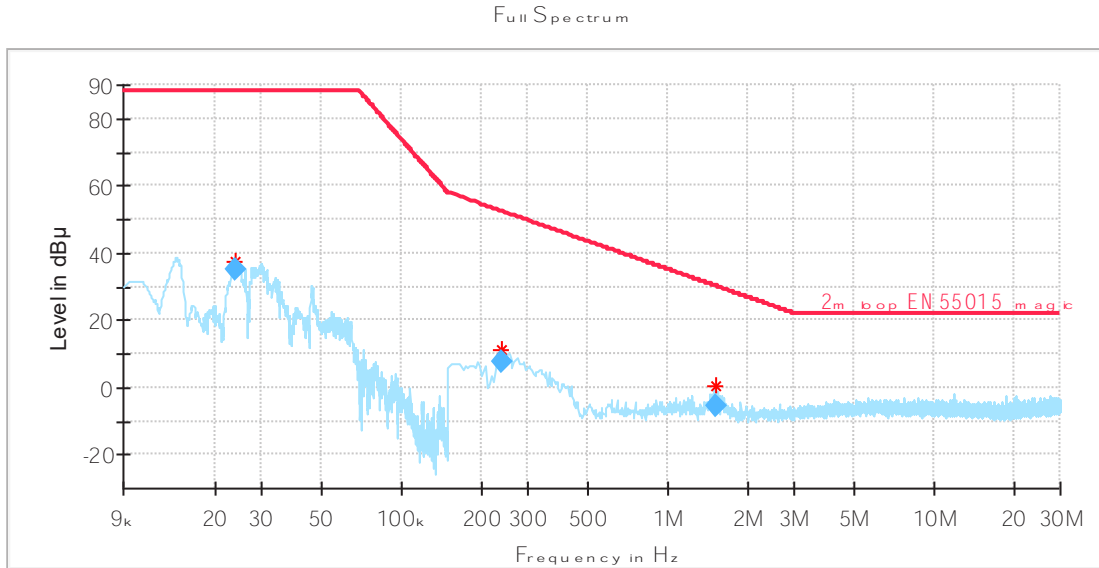


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Continued

Y Axis



Final Result

Frequency (MHz)	QuasiPeak (dB μ A)	Limit (dB μ A)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Axis	Corr. (dB)	Comment
0.023960	34.78	88.00	53.22	1000.0	0.200	Y	0.0	16:01:43 - 2019/1/15
0.238000	7.73	52.45	44.72	1000.0	9.000	Y	0.1	16:01:52 - 2019/1/15
1.530000	-5.74	30.09	35.83	1000.0	9.000	Y	0.2	16:01:56 - 2019/1/15

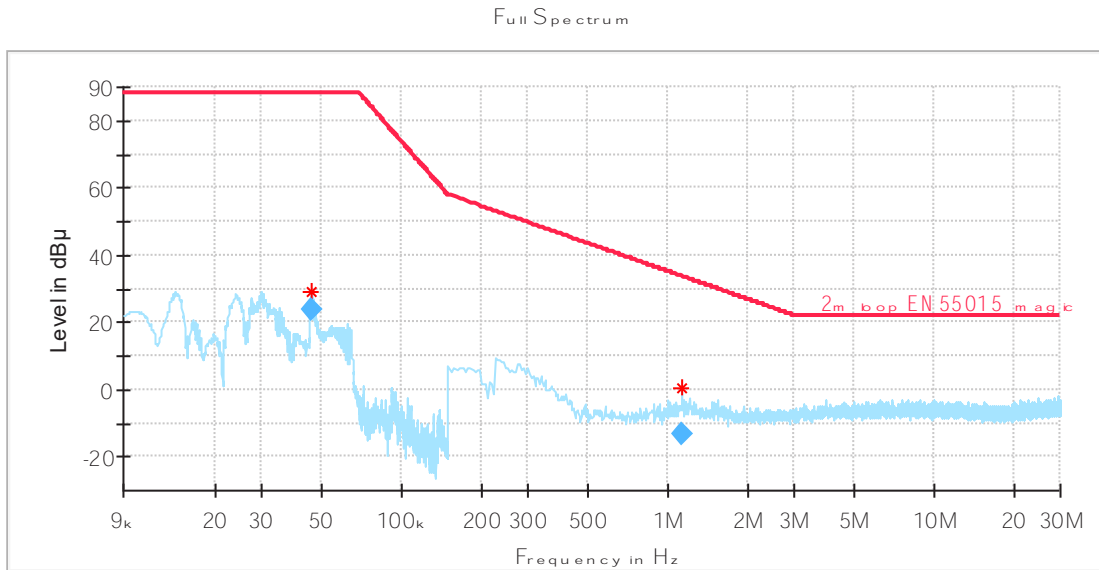


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Continued

Z Axis



Final Result

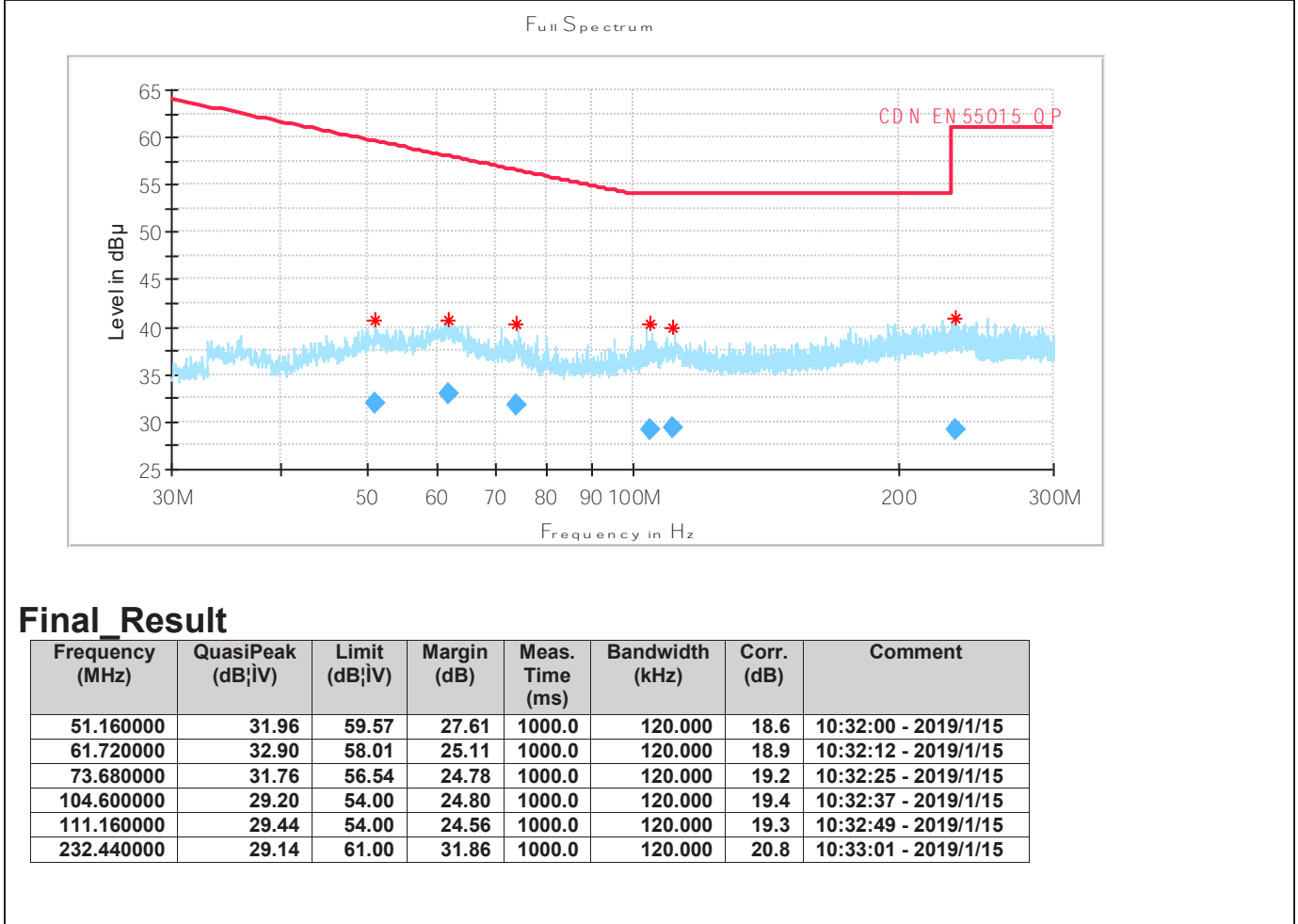
Frequency (MHz)	QuasiPeak (dBµA)	Limit (dBµA)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Axis	Corr. (dB)	Comment
0.046200	23.83	88.00	64.17	1000.0	0.200	Z	0.1	16:21:09 - 2019/1/15
1.134000	-13.54	33.69	47.23	1000.0	9.000	Z	0.2	16:21:18 - 2019/1/15



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Diagram No. 3: Radiated Emission in the frequency range 30-300MHz



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Comment
51.160000	31.96	59.57	27.61	1000.0	120.000	18.6	10:32:00 - 2019/1/15
61.720000	32.90	58.01	25.11	1000.0	120.000	18.9	10:32:12 - 2019/1/15
73.680000	31.76	56.54	24.78	1000.0	120.000	19.2	10:32:25 - 2019/1/15
104.600000	29.20	54.00	24.80	1000.0	120.000	19.4	10:32:37 - 2019/1/15
111.160000	29.44	54.00	24.56	1000.0	120.000	19.3	10:32:49 - 2019/1/15
232.440000	29.14	61.00	31.86	1000.0	120.000	20.8	10:33:01 - 2019/1/15



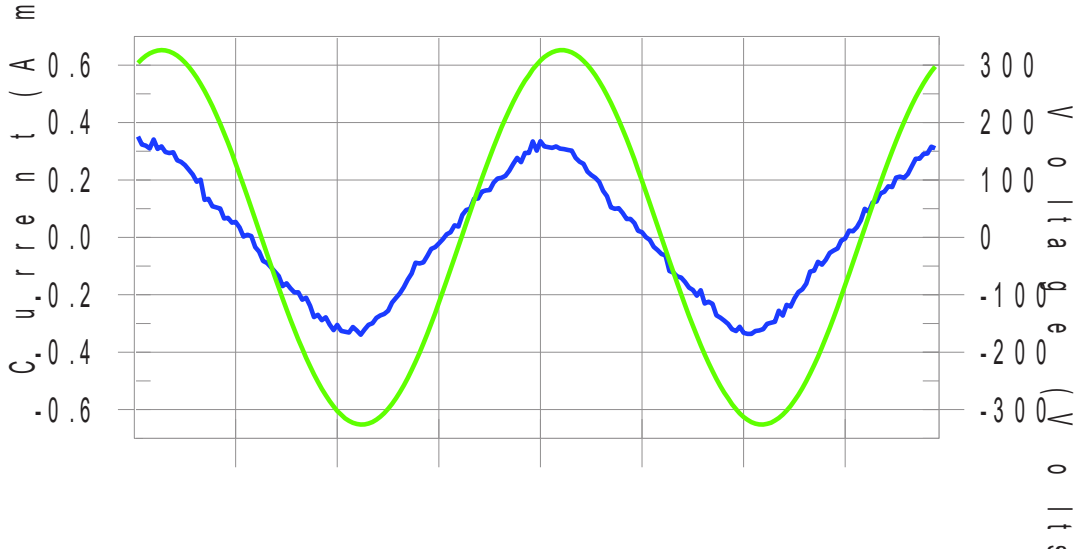
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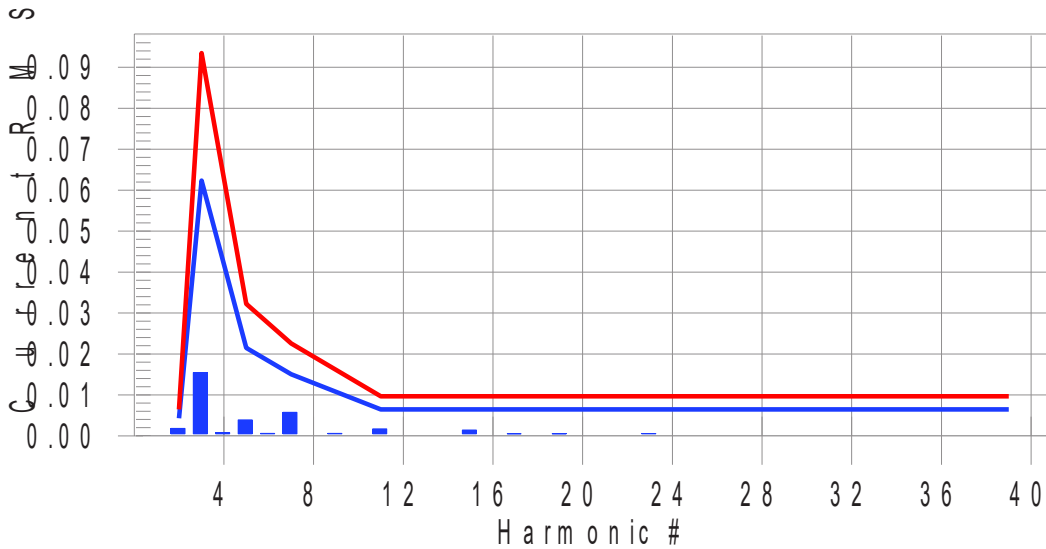
Table(s) No. <1>

Test Result: Pass Source qualification: Normal

Current & voltage waveforms



Harmonics and Class C limit line European Limits



Test result: Pass Worst harmonics H7-26.6% of 150% limit, H7-38.2% of 100% limit

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TEST REPORT N°: ASCV-19AU3120LTSZP-B

Current Test Result Summary (Run time)

Test Result: Pass Source qualification: Normal
THC(A): 0.017 I-THD(%): 8.1 POHC(A): 0.001 POHC Limit(A): 0.020

Highest parameter values during test:

V_RMS (Volts):	230.72	Frequency(Hz):	50.00
I_Peak (Amps):	0.393	I_RMS (Amps):	0.216
I_Fund (Amps):	0.215	Crest Factor:	1.832
Power (Watts):	48.1	Power Factor:	0.967

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.002	0.004	N/A	0.003	0.006	N/A	Pass
3	0.015	0.062	24.8	0.017	0.093	17.7	Pass
4	0.001	0.000	N/A	0.001	0.000	N/A	Pass
5	0.004	0.021	N/A	0.004	0.032	N/A	Pass
6	0.001	0.000	N/A	0.001	0.000	N/A	Pass
7	0.006	0.015	38.2	0.006	0.023	26.6	Pass
8	0.000	0.000	N/A	0.000	0.000	N/A	Pass
9	0.001	0.011	N/A	0.001	0.016	N/A	Pass
10	0.000	0.000	N/A	0.000	0.000	N/A	Pass
11	0.002	0.006	N/A	0.002	0.010	N/A	Pass
12	0.000	0.000	N/A	0.000	0.000	N/A	Pass
13	0.000	0.006	N/A	0.001	0.010	N/A	Pass
14	0.000	0.000	N/A	0.000	0.000	N/A	Pass
15	0.001	0.006	N/A	0.002	0.010	N/A	Pass
16	0.000	0.000	N/A	0.000	0.000	N/A	Pass
17	0.001	0.006	N/A	0.001	0.010	N/A	Pass
18	0.000	0.000	N/A	0.000	0.000	N/A	Pass
19	0.001	0.006	N/A	0.001	0.010	N/A	Pass
20	0.000	0.000	N/A	0.000	0.000	N/A	Pass
21	0.000	0.006	N/A	0.000	0.010	N/A	Pass
22	0.000	0.000	N/A	0.000	0.000	N/A	Pass
23	0.001	0.006	N/A	0.001	0.010	N/A	Pass
24	0.000	0.000	N/A	0.000	0.000	N/A	Pass
25	0.000	0.006	N/A	0.001	0.010	N/A	Pass
26	0.000	0.000	N/A	0.000	0.000	N/A	Pass
27	0.000	0.006	N/A	0.001	0.010	N/A	Pass
28	0.000	0.000	N/A	0.000	0.000	N/A	Pass
29	0.000	0.006	N/A	0.001	0.010	N/A	Pass
30	0.000	0.000	N/A	0.000	0.000	N/A	Pass
31	0.000	0.006	N/A	0.001	0.010	N/A	Pass
32	0.000	0.000	N/A	0.000	0.000	N/A	Pass
33	0.000	0.006	N/A	0.001	0.010	N/A	Pass
34	0.000	0.000	N/A	0.000	0.000	N/A	Pass
35	0.000	0.006	N/A	0.000	0.010	N/A	Pass
36	0.000	0.000	N/A	0.000	0.000	N/A	Pass
37	0.000	0.006	N/A	0.001	0.010	N/A	Pass
38	0.000	0.000	N/A	0.000	0.000	N/A	Pass
39	0.000	0.006	N/A	0.001	0.010	N/A	Pass
40	0.000	0.000	N/A	0.001	0.000	N/A	Pass

Note: Dynamic limits were applied for this test. The highest harmonics values in the above table may not occur at the same window as the maximum harmonics/limit ratio.

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