

VERIFICATION OF COMPLIANCE

Verification No.: SHEM200400262501LMC

Applicant: ZHEJIANG SUMMERSIDE SANITARY WARE TECHNOLOGY CO., LTD

Address of Applicant: LONGYOU ECONOMIC DEVELOPMENT ZONE,DONGHUA STREET,LONGYOU, QUZHOU,ZHEJIANG 325400

Product Description: LED MIRROR

Model No.: H-1085F50L60XTRSF, H-1298L15T (980.837021),
H-2291L20T (FEENS2170EK), H-1298L8T (980.835020),
H-A-B-C-D-E-F
(“H”stand for the abbreviation of client;
“A”could be 01-3999, stand for the shape of mirror (regular and irregular);
“B”could be F11-F50 or blank, stands for the powerof Defogger, from 11W to 50W, blank=no Defogger;
“C”could be L01-L60, stand for the power of LED strip, from 1W to 60W;
“D”could be X or blank, X= with clock, blank= no clock;
“E”could be T, R, S or Blank, T=with touch switch; R=with infrared sensor switch, S=with mechanical switch;
“F”could be cable plug. F=with cable plug, blank =withoutcable plug.)

Sufficient samples of the product have been tested and found to be in conformity with

Test Standards: EN IEC 55015:2019+A11:2020
EN IEC 61000-3-2:2019+A1:2020
EN 61000-3-3:2013+A1:2019
EN 61547:2009

As shown in the

Test Report Number(s): SHEM200400262501

This verification of EMC Compliance has been granted to the applicant based on the results of the tests, performed by laboratory of SGS-CSTC Standards Technical Services Co., Ltd. on the sample of the above-mentioned product in accordance with the provisions of the relevant specific standards under Directive 2014/30/EU. The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.

Parlan Zhan

Parlan Zhan
Laboratory Manager



Date: 2021-12-06

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VERIFICATION OF COMPLIANCE

No.: LVD NBES2112006384LM

Applicant: Zhejiang Summerside Sanitary Ware Technology Co., Ltd
49 Chengnan Road, Longyou Economic Development Zone,
Donghua Street, Longyou, Quzhou, Zhejiang, China

Manufacturer: Same as applicant

Product Name: LED Luminaire

Product Description: Fixed Luminaire

Model No.: See Page 2

Trade Mark: SUMMERSIDE / KODA

Rating: 220 V - 240 V; 50 Hz / 60 Hz; Max.110 W; Ta: 30 °C

Protection against Electric Shock: Class II

Degree of Protection: IP44

Additional Information: None

Sufficient samples of the product have been tested and found to be in conformity with

Test Standard: EN IEC 60598-1:2021
EN IEC 60598-2-1:2021

as shown in the

Test Report Number(s): NBES211200638401

This Verification of Compliance has been granted to the applicant based on the results of tests, performed by Laboratory of SGS-CSTC Standards Technical Services Co., Ltd. on sample of the above-mentioned product in accordance with the provisions of the relevant harmonized standards under the Low Voltage Directive 2014/35/EU. The CE marking as shown below can be affixed, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives. The affixing of the CE marking presumes in addition that the conditions in annexes III and IV of the Directive are fulfilled.



Leo Du

Lab Manager

SGS-CSTC

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2022-03-31

No.:

LVD NBES2112006384LM

Other information added:

Model/Type reference: H-abcdefgh

“H” stands for the abbreviation of client;

“a” could be 01-3999, stand for the shape of mirror (regular and irregular);

“b” could be F11-F50 or blank, stands for the power of Defogger, from 11 W to 50W, blank=no Defogger;

“c” could be L01-L60, stand for the power of LED strip, from 1W to 60 W;

“d” could be X or blank, X= with clock, blank= no clock;

“e” could be T or Blank, T=with touch switch, blank =without touch switch;

“f” could be R or Blank, R=with infrared sensor switch, blank = without infrared sensor switch;

“g” could be S or Blank, S=with mechanical switch, blank = without mechanical switch;

“h” could be cable plug. F=with cable plug, blank =without cable plug;

Additional model:

Additional model	Maximum rated power (W)	Corresponding to the above model
BR 8045 8704 S	8	H-1280L8S
BR 7080 8700 S	15	H-1282L15S
BR 70100 8701 S	15	H-1284L15S
BR 70120 8702 S	20	H-1285L20S
BR 70140 8703 S	20	H-1286L20S
BR 7090 8711 S	70	H-1287F50L20S
BR 7075 8710 S	55	H-1288F40L15S
BT 0075 8712 S	50	H-2289F30L20S
980.835020	8	H-1293L8T
980.837020	8	H-1294L8T
980.839020	8	H-1295L8T
980.831120	8	H-1296L8T
980.835021	15	H-1297L15T
980.837021	15	H-1298L15T
980.839021	20	H-1299L20T

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980.831121	20	H-1300L20T
980.831421	20	H-1301L20T
S17-FSP06-700X600EK	15	H-1302L15T
S17-FSP08-700X700EK	15	H-1303L15T
S17-FSP10-700X800EK	15	H-1304L15T
S17-FSP12-700X900EK	20	H-1305L20T
S17-FSP14-700X1000EK	20	H-1306L20T
S17-FSP20-700X1200EK	20	H-1307L20T
FEENS2170EK	20	H-2291L20T
980.836024	15	H-2292L15T
980.836023	15	H-1308L15R
980.837023	15	H-1309L15R
980.835022	15	H-1310L15XT
980.837022	15	H-1311L15XT
980.839022	20	H-1312L20XT
980.831122	20	H-1313L20XT
1162275-120	9	H-1093L9
1162275-100	9	H-1094L9
1162275-90	9	H-1095L9
1162275-80	9	H-1096L9
1162275-60	9	H-1097L9
1162258	15	H-1086L15
1162261-60	15	H-1087L15
1162261-80	15	H-1088L15
1162261-90	15	H-1089L15
1162261-100	15	H-1090L15
1162261-120	15	H-1091L15



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2022-03-31

TEST REPORT

Application No.: SHEM2004002625LM
Applicant: ZHEJIANG SUMMERSIDE SANITARY WARE TECHNOLOGY CO., LTD
Address of Applicant: LONGYOU ECONOMIC DEVELOPMENT ZONE,DONGHUA STREET, LONGYOU, QUZHOU, ZHEJIANG 325400
Manufacturer: ZHEJIANG SUMMERSIDE SANITARY WARE TECHNOLOGY CO., LTD
Address of Manufacturer: LONGYOU ECONOMIC DEVELOPMENT ZONE,DONGHUA STREET, LONGYOU, QUZHOU, ZHEJIANG 325400
Factory: ZHEJIANG SUMMERSIDE SANITARY WARE TECHNOLOGY CO., LTD
Address of Factory: LONGYOU ECONOMIC DEVELOPMENT ZONE,DONGHUA STREET, LONGYOU, QUZHOU, ZHEJIANG 325400
Equipment Under Test (EUT):
EUT Name: LED MIRROR
Model No.: Refer to page 2
 Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: KODA
Standard(s) : EN IEC 55015:2019+A11:2020
 EN IEC 61000-3-2:2019+A1:2020
 EN 61000-3-3:2013+A1:2019
 EN 61547:2009
Date of Receipt: 2020-04-09
Date of Test: 2020-04-27 & 2021-11-27
Date of Issue: 2021-12-06

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Parlan Zhan

Parlan Zhan
Laboratory Manager



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Model No.:

H-1085F50L60XTRSF, H-1298L15T (980.837021), H-2291L20T (FEENS2170EK), H-1298L8T (980.835020), H-A-B-C-D-E-F

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"E" could be T, R, S or Blank, T=with touch switch; R=with infrared sensor switch, S=with mechanical switch;

"F" could be cable plug. F=with cable plug, blank =without cable plug.)



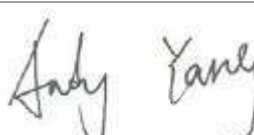

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Revision Record			
Version	Description	Date	Remark
00	Original	2021-12-06	/

Authorized for issue by:			
			
		<u>Andy Yang /Project Engineer</u>	
			
		<u>Bruce Tang /Reviewer</u>	



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Testing Center (EHS) (201801)

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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (9kHz-30MHz)	EN IEC 55015:2019+A11:2020	EN IEC 55015:2019+A11:2020	N/A	Pass
Radiated Emissions (30MHz-1000MHz)	EN IEC 55015:2019+A11:2020	CISPR 32:2015	N/A	Pass
Radiated Emissions (Magnetic field Induced Current) (9kHz-30MHz)	EN IEC 55015:2019+A11:2020	EN IEC 55015:2019+A11:2020	N/A	Pass
Harmonic Current Emission	EN IEC 61000-3-2:2019+A1:2020	EN IEC 61000-3-2:2019+A1:2020	Class C	Pass
Voltage Fluctuations and Flicker	EN 61000-3-3:2013+A1:2019	EN 61000-3-3:2013+A1:2019	Clause 5 of EN 61000-3-3	Pass

N/A: Not applicable

Immunity Part				
Item	Standard	Method	Requirement	Result
Electrostatic Discharge	EN 61547:2009	EN 61000-4-2:2009	4kV Contact Discharge 8kV Air Discharge	Pass
Radiated Immunity (80MHz-1GHz)	EN 61547:2009	EN 61000-4-3:2006 +A1:2008+A2:2010	3V/m, 80%, 1kHz Amp. Mod.	Pass
Electrical Fast Transients/Burst at Power Port	EN 61547:2009	EN 61000-4-4:2012	1kV 5/50ns Tr/Td 5kHz Repetition Frequency	Pass
Surge at Power Port	EN 61547:2009	EN 61000-4-5:2014 +A1:2017	1.2/50μs Tr/Td ≤25W 0.5kV Line to Line 1kV Line to Ground >25W 1kV Line to Line 2kV Line to Ground	Pass
Conducted Immunity at Power Port (150kHz-80MHz)	EN 61547:2009	EN 61000-4-6:2014	3Vrms (emf), 80%, 1kHz Amp. Mod.	Pass
Voltage Dips and Interruptions	EN 61547:2009	EN 61000-4-11:2004 +A1:2017	0 % UT for 0.5per 70 % UT for 10per UT is Supply Voltage	Pass

N/A: Not applicable



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Note: Declaration of EUT Family Grouping:

There are series models mentioned in this report and they are the similar in electrical and electronic characters. Only the model H-1085F50L60XTRSF, H-1298L15T (980.837021), H-2291L20T (FEENS2170EK), H-1298L8T (980.835020) was tested since their differences are appearance and model number.



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4 General Information

4.1 Details of E.U.T.

Power supply: AC 220-240V, 50/60 Hz, 60W for model H-1085F50L60XTRSF,
AC 220-240V, 50/60 Hz, 15W for model H-1298L15T (980.837021),
AC 220-240V, 50/60 Hz, 20W for model H-2291L20T (FEENS2170EK),
AC 220-240V, 50/60 Hz, 8W for model H-1298L8T (980.835020).

Test voltage: AC 230V 50Hz

Cable: AC cable 1.4m

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conducted Emission at mains port using AMN	2.6dB (9kHz to 150kHz)
		2.4dB (150kHz to 30MHz)
2	Conducted Emission at mains port using VP	1.8 dB (9kHz to 30MHz)
3	Conducted Emission at telecommunication port using AAN	4.2 dB (150kHz to 30MHz)
4	Radiated Power	3.2dB
5	Radiated Emission	4.5dB (30MHz-1GHz)
		5.1dB (1GHz-6GHz)
		5.4dB (6GHz-18GHz)
6	Radiated Disturbance (disturbance current in a LLAS)	2.4dB (9kHz to 30MHz)

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



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4.4 Test Location

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

All tests were sub-contracted.

Ningbo Joysun Product Testing Service Co., Ltd.

No. 66, Qingyi Road, Hi-Tech Distric, Ningbo, Zhejiang, China

4.5 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

- **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

- **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

4.8 Monitoring of EUT for All Immunity Test

Visual: Monitor the lamp lighting.



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5 Equipment List

CE

Equipment	Model No	Inventory No	Manufacturer	Cal Due Date
EMI receiver	ESCI	100708	R&S	2022/3/8
Artificial mains network	ENV216	101022	R&S	2022/3/8
Artificial mains network	ESH2-Z5	100198	R&S	2022/3/8
Pulse Limiter	ESH3-Z2	100847	R&S	2022/3/8
Control Room2	(11.2*5.2*3.3)	N/A	Albatross	2022/3/2

RE Loop

Equipment	Model No	Inventory No	Manufacturer	Cal Due Date
EMI receiver	ESCI	101213	R&S	2022/3/8
Three ring antenna	SWB-HXYZ9170	175	SCHWARZBECK	2022/3/8
Shielding Room1	(10*6.1*3.3)	N/A	Albatross	2022/3/2

RE

Equipment	Model No	Inventory No	Manufacturer	Cal Due Date
EMI receiver	ESU26	100224	R&S	2022/3/8
Combined antenna	VULB 9163	9163-563	SCHWARZBECK	2024/1/25
Horn antenna	HF907	100147	R&S	2022/3/27
Preamplifier	SCU18	10042	R&S	2022/3/8
Semi -Anechoic Chamber	3M (9.1*5.8*5.7)	N/A	Albatross	2023/1/2
EMI receiver	ESR 7	101203	R&S	2022/3/8
Combined antenna	VULB 9163	9163-560	SCHWARZBECK	2022/3/27
Semi -Anechoic Chamber	5M (12.1*7.3*6)	N/A	Albatross	2023/1/2

Harmonic & Voltage Fluctuations and Flicker

Equipment	Model No	Inventory No	Manufacturer	Cal Due Date
Harmonic and flicker test system	DPA500	V0746103124	EM TEST	2022/3/8
AC Power Source	500lix-400-413	58311	CI	2022/3/8
Shielding Room1	(10*6.1*3.3)	N/A	Albatross	2022/3/2
Harmonic and flicker test system(3phase)	DPA503	V0828104013	EM TEST	2022/3/8
AC Power Source	61705	617050000124	Chroma	2022/3/8
Shielding Room2	(10*4.9*3.0)	N/A	Albatross	2022/3/2

ESD

Equipment	Model No	Inventory No	Manufacturer	Cal Due Date
ESD gun	dito	DITO B07040	EM TEST	2022/3/8



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EFT

Equipment	Model No	Inventory No	Manufacturer	Cal Due Date
Burst test system	NX8-3-690-32	P2111250014	EM TEST	2022/3/8
Surge, Burst and Dip test system	UCS500-M6B	V0746103125	EM TEST	2022/3/8
booster	MV2616	V0746103126	EM TEST	2022/3/8
Coupling clamp	HFK	0108-27	EM TEST	2022/3/8
Shielding Room2	(10*4.9*3.0)	N/A	Albatross	2022/3/2

Surge

Equipment	Model No	Inventory No	Manufacturer	Cal Due Date
Surge test system	VCS 500N8.5	P2051246299	EM TEST	2022/3/8
Surge, Burst and Dip test system	UCS500-M6B	V0746103125	EM TEST	2022/3/8
booster	MV2616	V0746103126	EM TEST	2022/3/8
Shielding Room2	(10*4.9*3.0)	N/A	Albatross	2022/3/2

Dips

Equipment	Model No	Inventory No	Manufacturer	Cal Due Date
Dip test system	PFS 503N32	P2051246036	EM TEST	2022/3/8
Surge, Burst and Dip test system	UCS500-M6B	V0746103125	EM TEST	2022/3/8
booster	MV2616	V0746103126	EM TEST	2022/3/8
Shielding Room2	(10*4.9*3.0)	N/A	Albatross	2022/3/2

CI

Equipment	Model No	Inventory No	Manufacturer	Cal Due Date
Attenuator	75-A-FFN-06	1606	BIRD	2022/3/8
CDN for Two/There Supply Main Line	CDN-M2+3	A2210412/2016	Frankonia	2022/3/8
Decoupling network	F-203I-23MM-DCN	8225	FISCHER	2022/3/8
EM injection clamp	F-203I-23MM	8562	FISCHER	2022/3/8
Conduct Immunity Test System	CIT-10-75	126B1413/2016	Frankonia	2022/3/8
Shielding Room2	(10*4.9*3.0)	N/A	Albatross	2022/3/2

RI

Equipment	Model No	Inventory No	Manufacturer	Cal Due Date
Semi -Anechoic Chamber	3M (9.1*5.8*5.7)	N/A	Albatross	2023/1/2
LOGPERIODIC ANTENNA	AT1080	325189	AR	2022/3/8
Horn antenna	AT4002A	328236	AR	2022/3/8
Coupling/Decoupling Network	DC6180M1	328058	AR	2022/3/8
Coupling/Decoupling Network	DC7144M1	327100	AR	2022/3/8
POWER AMPLIFIER	250W1000A	327579	AR	2022/3/8
POWER AMPLIFIER	80S1G3	327495	AR	2022/3/8
Integrated measurement system	IMS	100012	R&S	2022/3/8



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Smart sensor technology	NRP-Z91	100520	R&S	2022/3/8
POWER AMPLIFIER	BBA150	103010	R&S	2022/3/8
Signal source	SMB100A	114943	R&S	2022/3/8



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6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (9kHz-30MHz)

Test Requirement:	EN IEC 55015:2019+A11:2020
Test Method:	EN IEC 55015:2019+A11:2020
Frequency Range:	9kHz to 30MHz
Limit:	
0.009MHz – 0.05MHz	110dB(μV) quasi-peak
0.05MHz – 0.15MHz	90dB(μV)-80dB(μV) quasi-peak
0.15MHz – 0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5MHz – 5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5MHz – 30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (200Hz resolution bandwidth) 0.009M to 0.15MHz Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

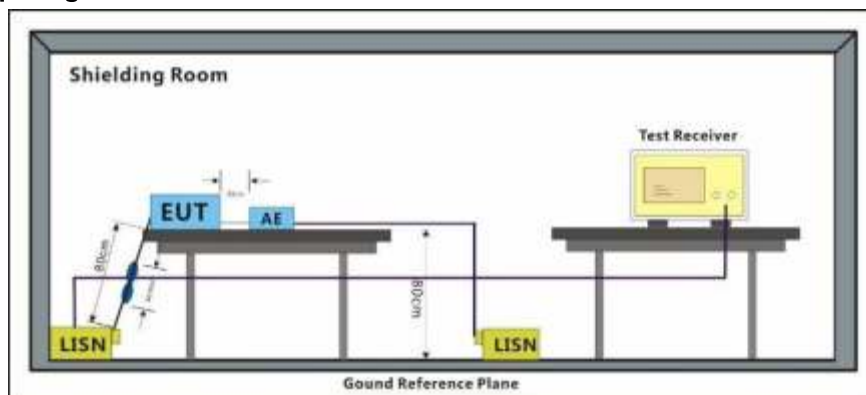
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode a: Lighting mode: Keep EUT lighting continuously.

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

Notes: Emission Level=Read Level + LISN Factor + Cable Loss



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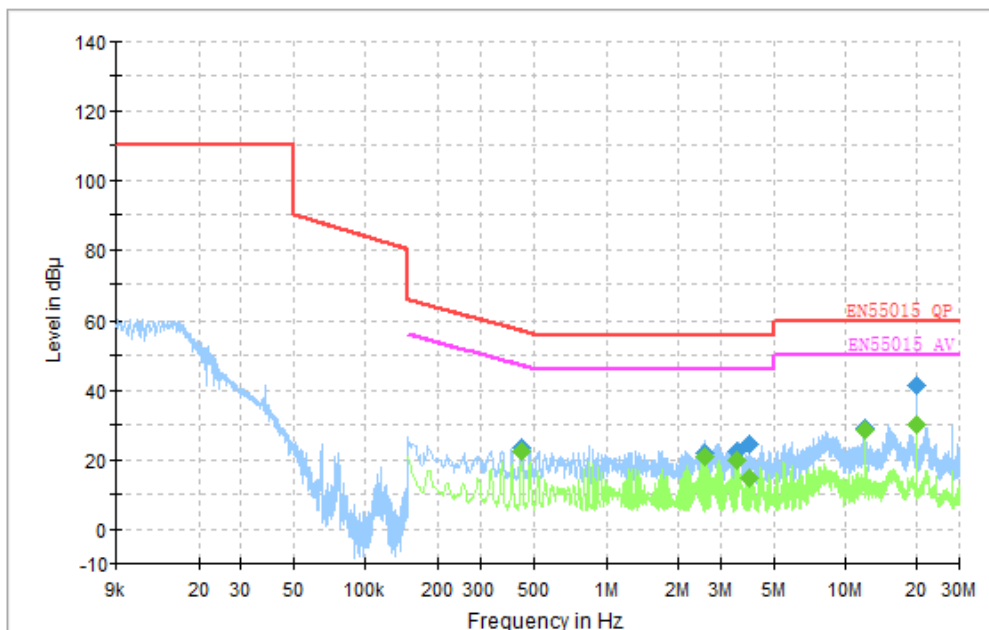
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For model H-1085F50L60XTRSF

Mode:a; Line:Live Line



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.440000	23.5	1000.0	9.000	Off	L1	10.8	33.6	57.1	
2.603000	22.1	1000.0	9.000	Off	L1	10.8	33.9	56.0	
3.521000	22.3	1000.0	9.000	Off	L1	10.8	33.7	56.0	
3.990000	24.4	1000.0	9.000	Off	L1	10.8	31.6	56.0	
12.000000	28.9	1000.0	9.000	Off	L1	10.9	31.1	60.0	
19.944000	41.3	1000.0	9.000	Off	L1	10.9	18.7	60.0	

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.440000	22.3	1000.0	9.000	Off	L1	10.8	24.8	47.1	
2.603000	20.8	1000.0	9.000	Off	L1	10.8	25.2	46.0	
3.521000	19.9	1000.0	9.000	Off	L1	10.8	26.1	46.0	
3.990000	14.9	1000.0	9.000	Off	L1	10.8	31.1	46.0	
12.000000	28.5	1000.0	9.000	Off	L1	10.9	21.5	50.0	
19.944000	29.9	1000.0	9.000	Off	L1	10.9	20.1	50.0	



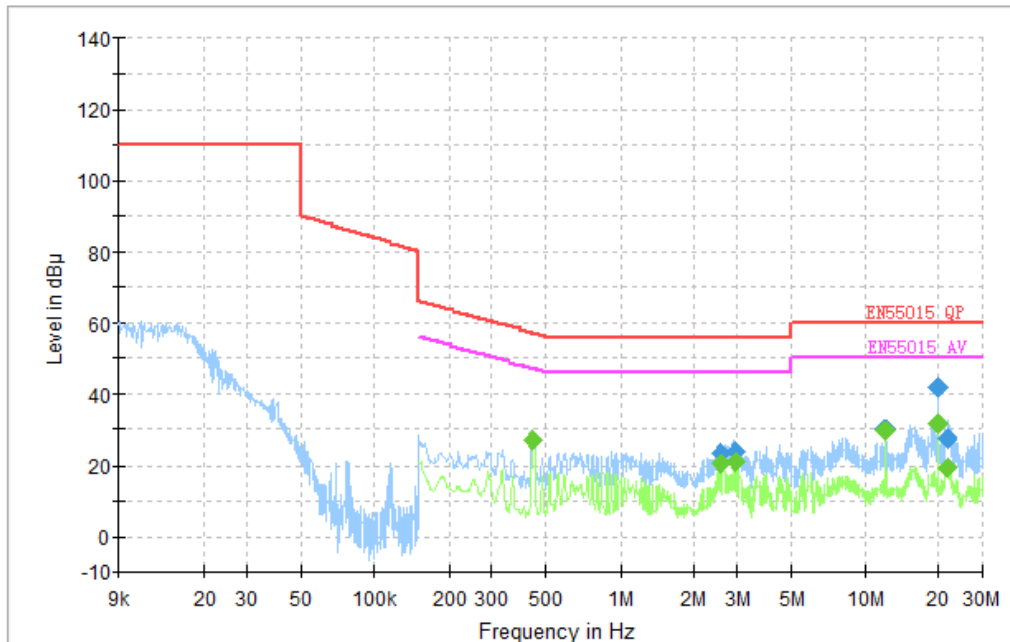
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Mode:a; Line:Neutral Line



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.441000	27.1	1000.0	9.000	Off	N	10.8	29.9	57.0	
2.572000	23.4	1000.0	9.000	Off	N	10.8	32.6	56.0	
2.976000	24.1	1000.0	9.000	Off	N	10.8	31.9	56.0	
12.000000	30.2	1000.0	9.000	Off	N	11.0	29.8	60.0	
19.940000	42.0	1000.0	9.000	Off	N	11.1	18.0	60.0	
21.685000	27.5	1000.0	9.000	Off	N	11.1	32.5	60.0	

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.441000	27.0	1000.0	9.000	Off	N	10.8	20.0	47.0	
2.572000	20.3	1000.0	9.000	Off	N	10.8	25.7	46.0	
2.976000	20.9	1000.0	9.000	Off	N	10.8	25.1	46.0	
12.000000	29.4	1000.0	9.000	Off	N	11.0	20.6	50.0	
19.940000	31.5	1000.0	9.000	Off	N	11.1	18.5	50.0	
21.685000	19.1	1000.0	9.000	Off	N	11.1	30.9	50.0	



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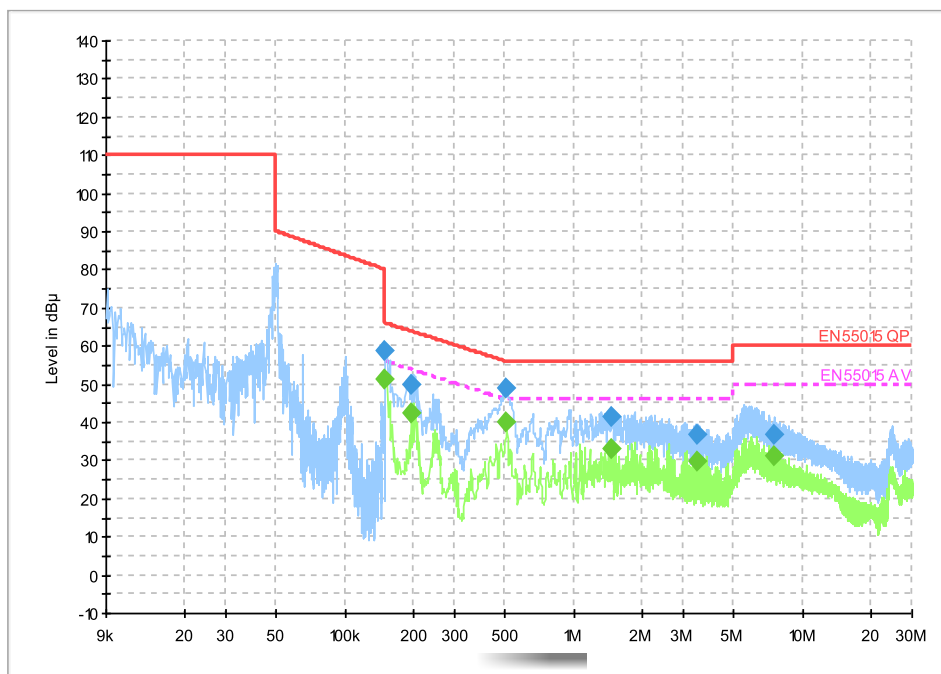
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For model H-1298L15T (980.837021)

Mode:a; Line:Live Line



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.150000	58.5	1000.0	0.200	Off	L1	10.8	21.5	80.0	
0.194000	49.9	1000.0	9.000	Off	L1	10.8	14.1	64.0	
0.506000	48.7	1000.0	9.000	Off	L1	10.8	7.3	56.0	
1.470000	41.5	1000.0	9.000	Off	L1	10.7	14.5	56.0	
3.496000	36.7	1000.0	9.000	Off	L1	10.8	19.3	56.0	
7.486000	36.5	1000.0	9.000	Off	L1	10.9	23.5	60.0	

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.150000	51.1	1000.0	9.000	Off	L1	10.8	4.9	56.0	
0.194000	42.2	1000.0	9.000	Off	L1	10.7	11.5	53.7	
0.506000	40.0	1000.0	9.000	Off	L1	10.8	6.0	46.0	
1.470000	33.1	1000.0	9.000	Off	L1	10.7	12.9	46.0	
3.496000	29.5	1000.0	9.000	Off	L1	10.8	16.5	46.0	
7.486000	31.0	1000.0	9.000	Off	L1	10.9	19.0	50.0	



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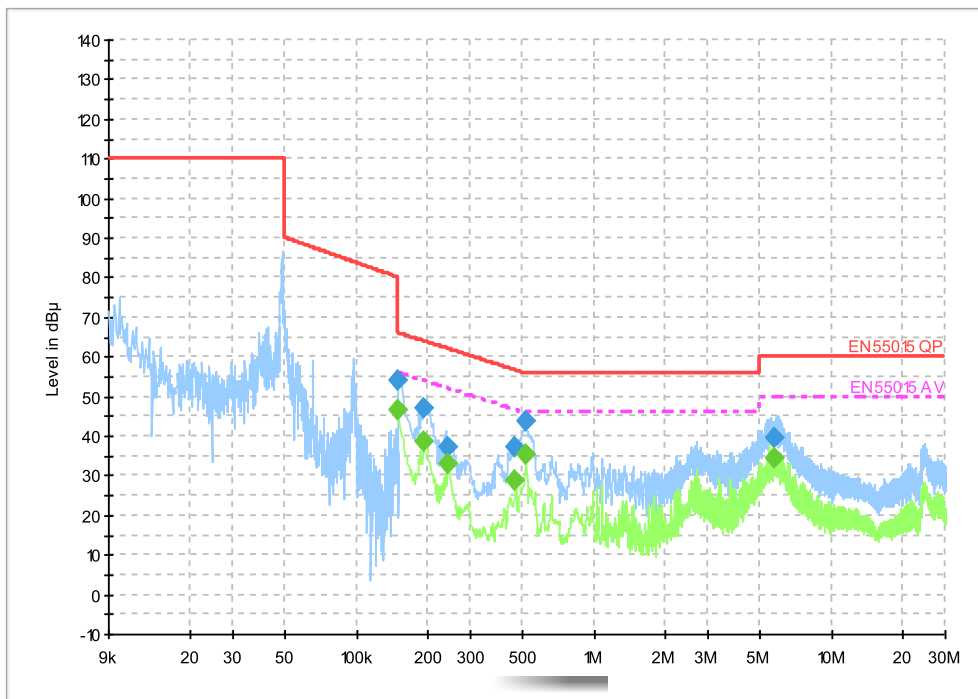
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Mode:a; Line:Neutral Line



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.150000	54.1	1000.0	0.900	Off	N	10.8	25.9	80.0	
0.190000	47.0	10000.0	0.900	Off	N	10.8	17.2	64.2	
0.244000	37.2	1000.0	9.000	Off	N	10.8	24.8	62.0	
0.460000	37.0	1000.0	9.000	Off	N	10.8	19.7	56.7	
0.512000	43.6	1000.0	9.000	Off	N	10.8	12.4	56.0	
5.777000	39.5	1000.0	9.000	Off	N	10.8	20.5	60.0	

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.150000	46.7	1000.0	9.000	Off	N	10.8	9.3	56.0	
0.190000	38.6	1000.0	9.000	Off	N	10.8	15.6	54.2	
0.244000	32.8	1000.0	9.000	Off	N	10.8	19.2	52.0	
0.460000	28.7	1000.0	9.000	Off	N	10.8	18.0	46.7	
0.512000	35.4	1000.0	9.000	Off	N	10.8	10.6	46.0	
5.777000	34.6	1000.0	9.000	Off	N	10.8	15.4	50.0	



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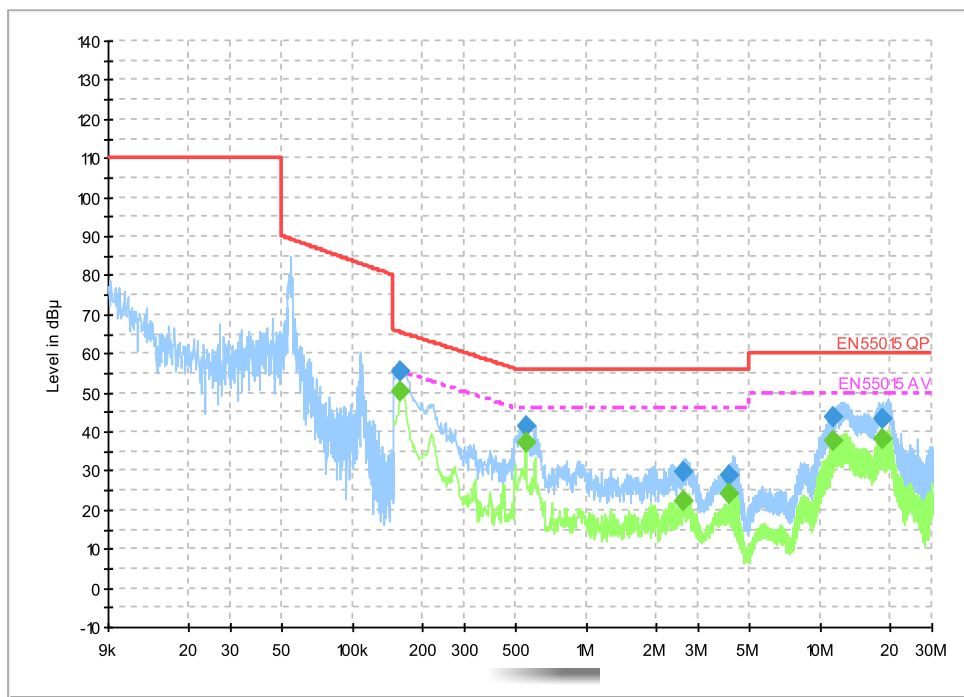
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For model H-2291L20T (FEENS2170EK)

Mode:a; Line:Live Line



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.160000	55.2	1000.0	9.000	Off	L1	10.8	10.3	65.5	
0.551000	41.6	1000.0	9.000	Off	L1	10.7	14.4	56.0	
2.620000	29.6	1000.0	9.000	Off	L1	10.8	26.4	56.0	
4.071000	28.8	1000.0	9.000	Off	L1	10.8	27.2	56.0	
11.382000	43.8	1000.0	9.000	Off	L1	10.9	16.2	60.0	
18.307000	43.1	1000.0	9.000	Off	L1	10.9	16.9	60.0	

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.160000	50.5	1000.0	9.000	Off	L1	10.8	4.8	55.3	
0.551000	37.4	1000.0	9.000	Off	L1	10.7	8.6	46.0	
2.620000	22.1	1000.0	9.000	Off	L1	10.8	23.9	46.0	
4.071000	24.0	1000.0	9.000	Off	L1	10.8	22.0	46.0	
11.382000	37.5	1000.0	9.000	Off	L1	10.9	12.5	50.0	
18.307000	38.0	1000.0	9.000	Off	L1	10.9	12.0	50.0	



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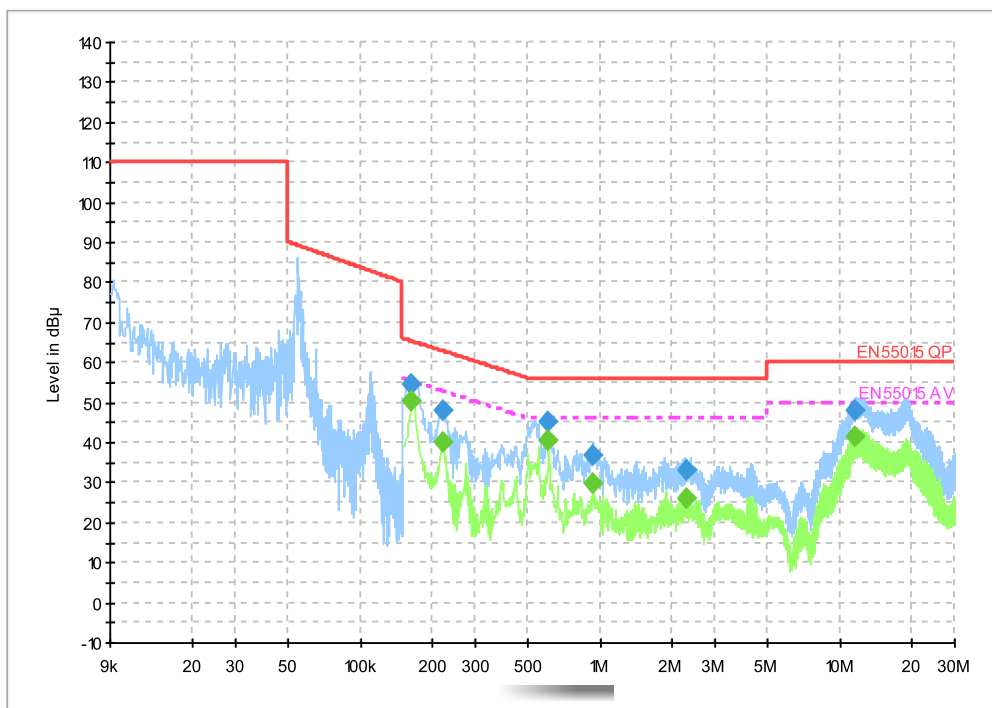
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Mode:a; Line:Neutral Line



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.164000	54.3	1000.0	9.000	Off	N	10.8	11.2	65.5	
0.222000	48.1	1000.0	9.000	Off	N	10.8	16.1	64.2	
0.609000	45.0	1000.0	9.000	Off	N	10.7	11.0	56.0	
0.938000	36.6	1000.0	9.000	Off	N	10.8	19.4	56.0	
2.291000	33.0	1000.0	9.000	Off	N	10.8	23.0	56.0	
11.578000	48.1	1000.0	9.000	Off	N	10.9	11.9	60.0	

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.164000	50.2	1000.0	9.000	Off	N	10.7	5.1	55.3	
0.222000	40.2	1000.0	9.000	Off	N	10.7	13.4	53.6	
0.609000	40.3	1000.0	9.000	Off	N	10.7	5.7	46.0	
0.938000	29.6	1000.0	9.000	Off	N	10.8	16.4	46.0	
2.291000	25.9	1000.0	9.000	Off	N	10.8	20.1	46.0	
11.578000	41.6	1000.0	9.000	Off	N	11.0	8.4	50.0	



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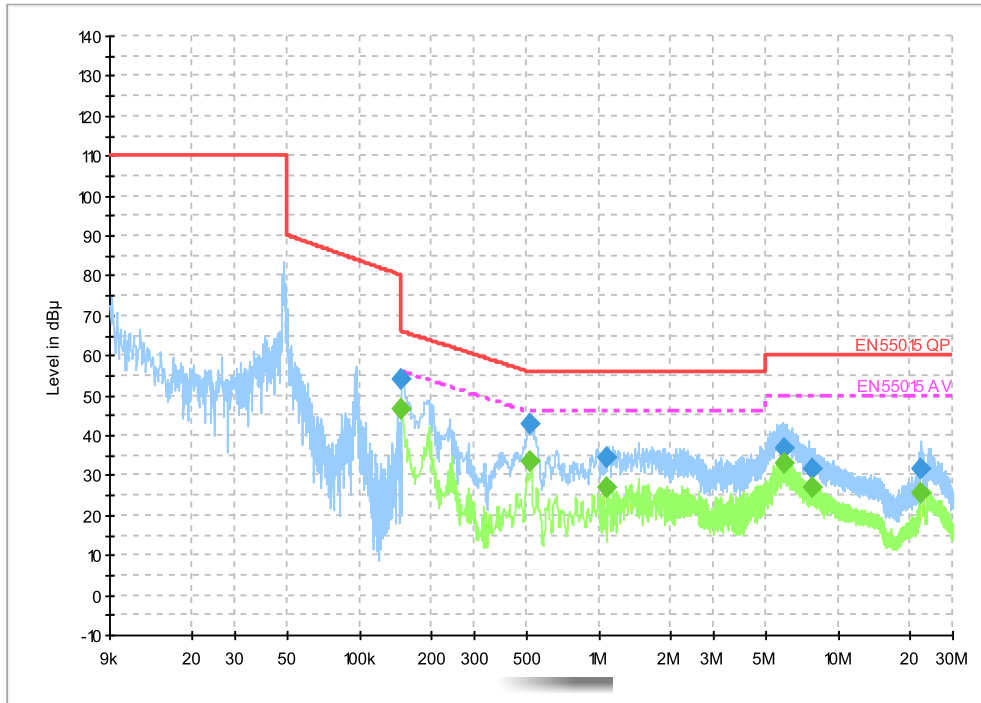
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For model H-1298L8T (980.835020)

Mode:a; Line:Live Line



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.150000	54.0	1000.0	0.200	Off	L1	10.8	26.0	80.0	
0.516000	42.9	1000.0	9.000	Off	L1	10.8	13.1	56.0	
1.086000	34.5	1000.0	9.000	Off	L1	10.8	21.5	56.0	
5.940000	36.8	1000.0	9.000	Off	L1	10.9	23.2	60.0	
7.814000	31.8	1000.0	9.000	Off	L1	10.9	28.2	60.0	
22.162000	31.4	1000.0	9.000	Off	L1	10.9	28.6	60.0	

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.150000	46.6	1000.0	9.000	Off	L1	10.8	9.4	56.0	
0.516000	33.6	1000.0	9.000	Off	L1	10.8	12.4	46.0	
1.086000	27.1	1000.0	9.000	Off	L1	10.8	18.9	46.0	
5.940000	33.0	1000.0	9.000	Off	L1	10.8	17.0	50.0	
7.814000	27.0	1000.0	9.000	Off	L1	10.9	23.0	50.0	
22.162000	25.4	1000.0	9.000	Off	L1	10.9	24.6	50.0	



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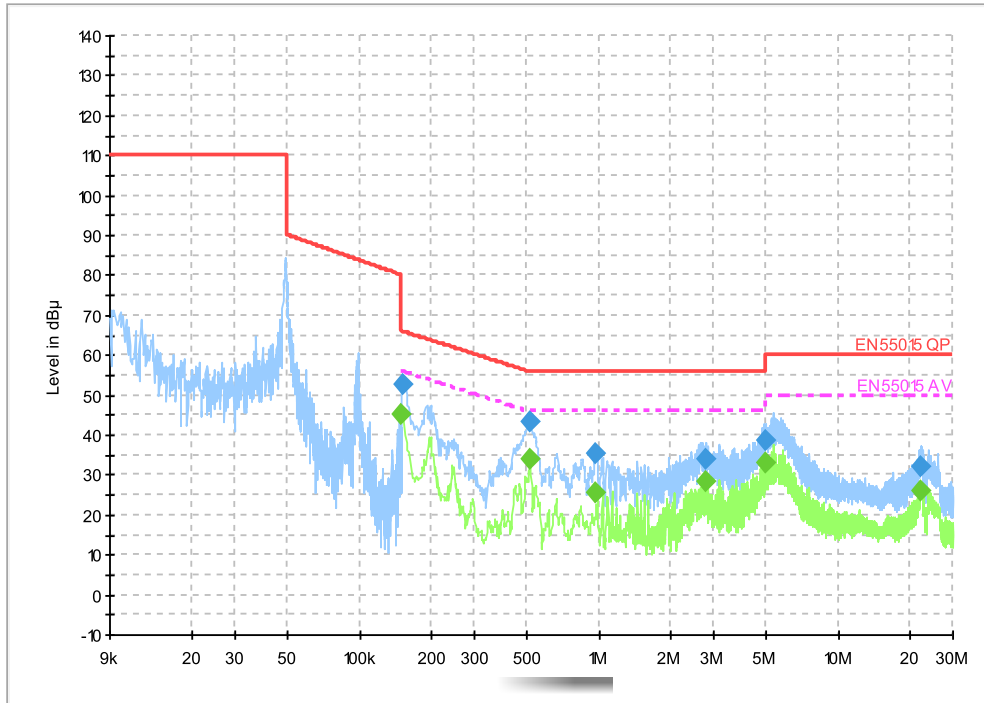
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Mode:a; Line:Neutral Line



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.151000	52.6	1000.0	9.000	Off	N	10.8	13.3	65.9	
0.514000	43.1	1000.0	9.000	Off	N	10.8	12.9	56.0	
0.968000	35.2	1000.0	9.000	Off	N	10.8	20.8	56.0	
2.768000	34.1	1000.0	9.000	Off	N	10.8	21.9	56.0	
4.948000	38.6	1000.0	9.000	Off	N	10.8	17.4	56.0	
22.190000	31.9	1000.0	9.000	Off	N	11.1	28.1	60.0	

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.150000	45.2	1000.0	0.200	Off	N	10.8	10.8	56.0	
0.514000	33.9	1000.0	9.000	Off	N	10.8	12.1	46.0	
0.968000	25.7	1000.0	9.000	Off	N	10.8	20.3	46.0	
2.768000	28.1	1000.0	9.000	Off	N	10.8	17.9	46.0	
4.948000	32.8	1000.0	9.000	Off	N	10.8	13.2	46.0	
22.190000	26.2	1000.0	9.000	Off	N	11.1	23.8	50.0	



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6.2 Radiated Emissions (30MHz-1000MHz)

Test Requirement: EN IEC 55015:2019+A11:2020

Test Method: CISPR 32:2015

Frequency Range: 30MHz to 1000MHz

Measurement Distance: 3m

Limit:

30MHz-230MHz 40dB(μV/m) quasi-peak

230MHz-1000MHz 47dB(μV/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz

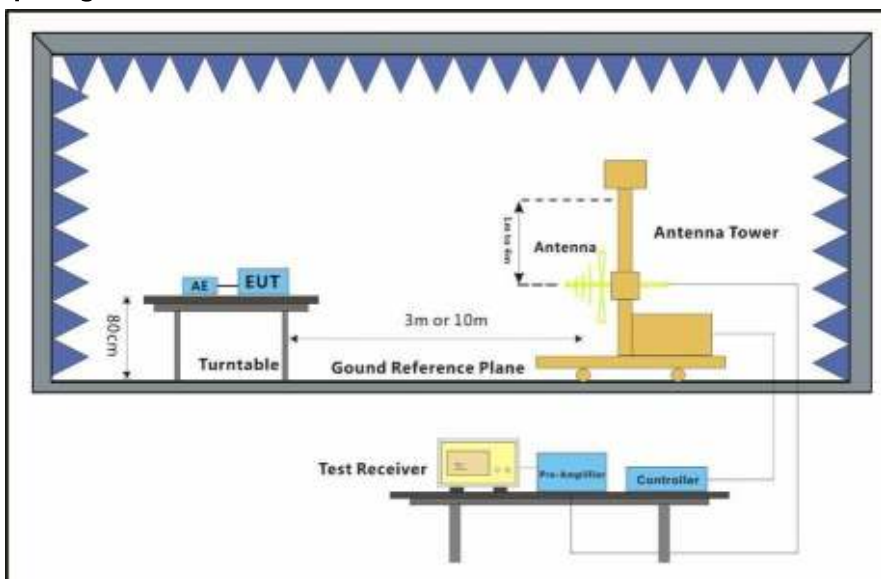
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode a: Lighting mode: Keep EUT lighting continuously.

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Notes: Emission Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



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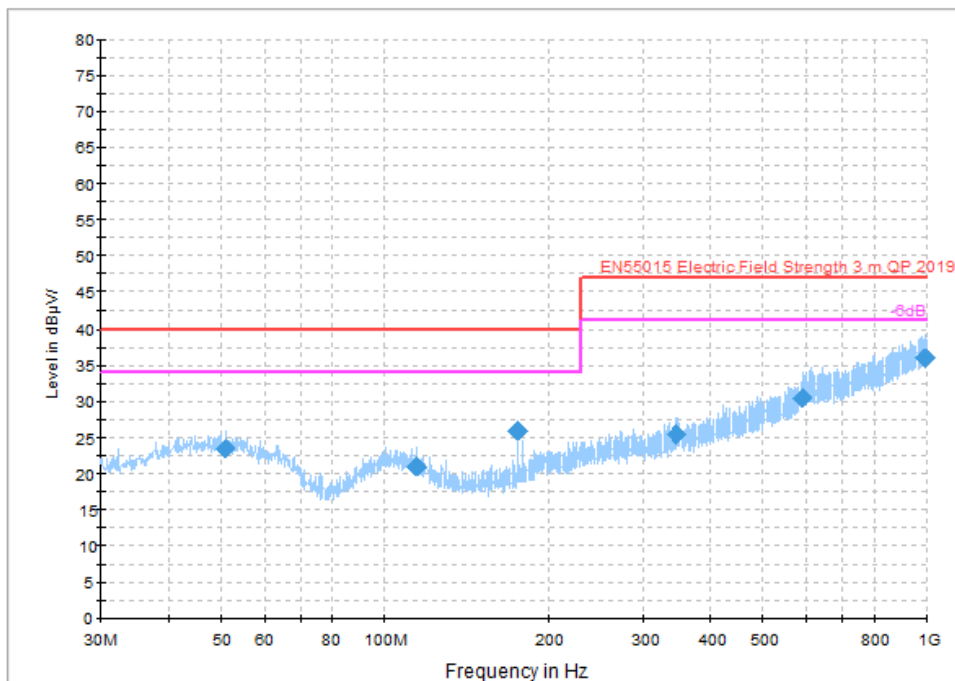
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For model H-1085F50L60XTRSF

Mode:a; Polarization:Horizontal



Final Result 1

Frequency (MHz)	QuasiPeak (dB µV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB µV/m)
50.955000	23.5	1000.0	120.000	195.0	H	51.0	15.4	16.5	40.0
114.153000	21.0	1000.0	120.000	100.1	H	205.0	12.9	19.0	40.0
175.483000	26.0	1000.0	120.000	150.0	H	81.0	11.1	14.0	40.0
345.441000	25.3	1000.0	120.000	144.0	H	135.0	16.8	21.7	47.0
591.305000	30.5	1000.0	120.000	149.9	H	232.0	21.2	16.5	47.0
991.016000	36.0	1000.0	120.000	150.0	H	111.0	25.9	11.0	47.0



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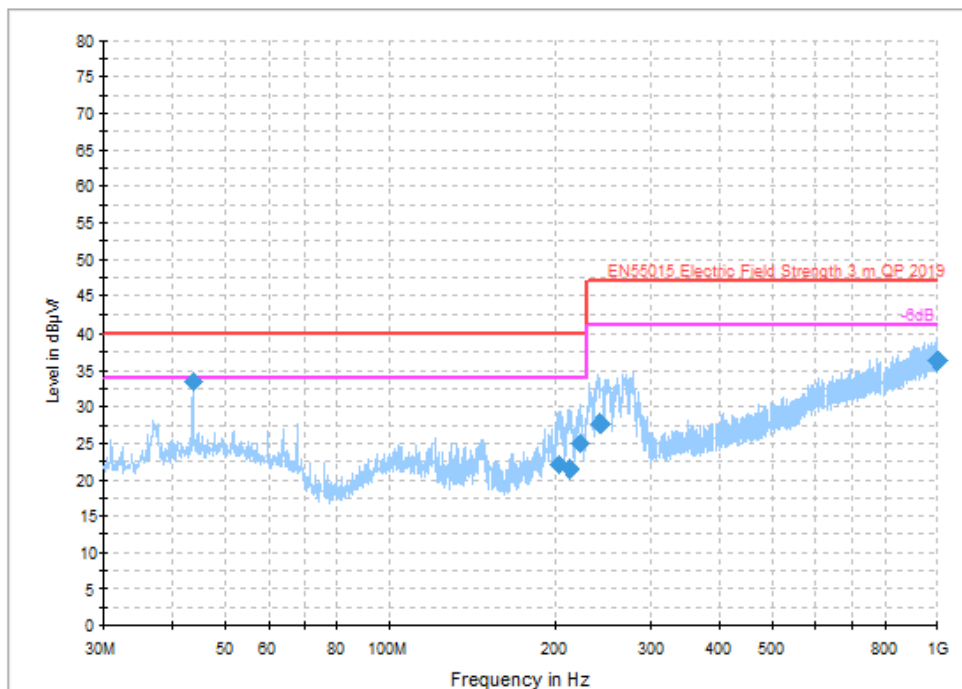
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Mode:a; Polarization:Vertical



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
43.931000	33.3	1000.0	120.000	169.0	V	84.0	15.3	6.7	40.0
202.737000	21.9	1000.0	120.000	100.0	V	192.0	13.1	18.1	40.0
212.434000	21.4	1000.0	120.000	100.0	V	-10.0	12.9	18.6	40.0
223.358000	24.8	1000.0	120.000	100.0	V	30.0	13.4	15.2	40.0
242.784000	27.6	1000.0	120.000	100.0	V	94.0	14.2	19.4	47.0
996.930000	36.1	1000.0	120.000	177.0	V	275.0	25.9	10.9	47.0



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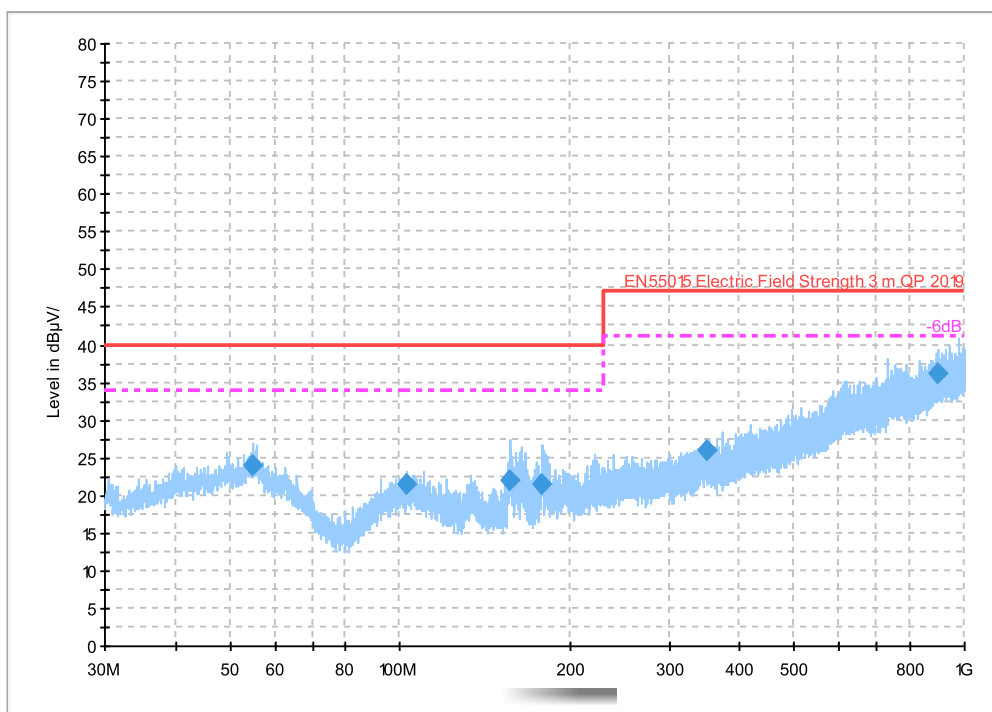
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For model H-1298L15T (980.837021)

Mode:a; Polarization:Horizontal



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
54.799667	23.9	1000.0	120.000	162.0	H	284.0	14.4	16.1	40.0
102.685333	21.5	1000.0	120.000	148.0	H	170.0	13.4	18.5	40.0
156.908333	22.0	1000.0	120.000	170.0	H	284.0	9.8	18.0	40.0
179.089000	21.6	1000.0	120.000	112.0	H	149.0	10.9	18.4	40.0
350.164667	25.9	1000.0	120.000	194.0	H	0.0	17.4	21.1	47.0
896.339333	36.1	1000.0	120.000	167.0	H	347.0	26.3	10.9	47.0

(continuation of the "Final Result 1" table from column 9 ...)



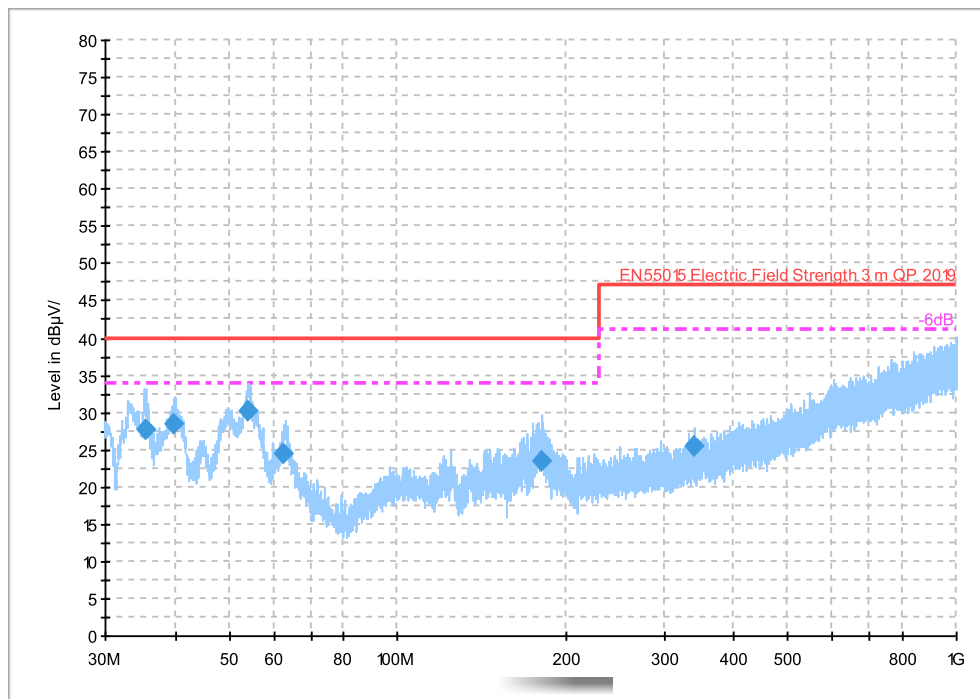
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Mode:a; Polarization:Vertical



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
35.464333	27.5	1000.0	120.000	175.0	V	197.0	11.8	12.5	40.0
39.926333	28.5	1000.0	120.000	162.0	V	154.0	13.4	11.5	40.0
54.185333	30.0	1000.0	120.000	185.0	V	239.0	14.4	10.0	40.0
62.398000	24.4	1000.0	120.000	144.0	V	78.0	13.0	15.6	40.0
181.481667	23.4	1000.0	120.000	157.0	V	219.0	11.2	16.6	40.0
340.432333	25.5	1000.0	120.000	178.0	V	219.0	17.0	21.5	47.0

(continuation of the "Final Result 1" table from column 9 ...)



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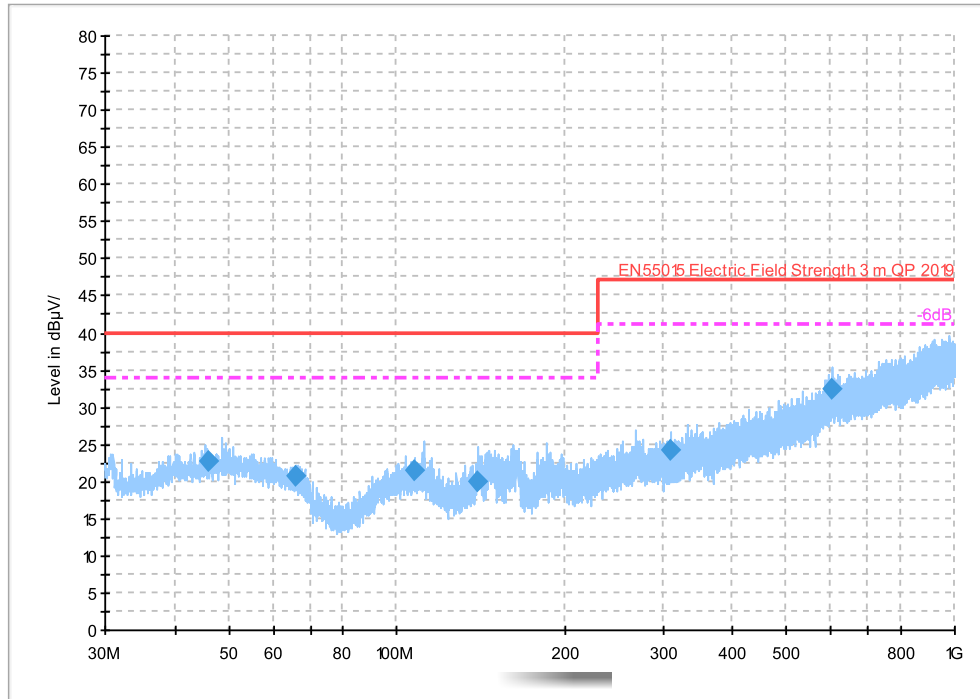
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For model H-2291L20T (FEENS2170EK)

Mode:a; Polarization:Horizontal



Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB µ V/m)
46.231333	22.6	1000.0	120.000	175.0	H	102.0	14.3	17.4	40.0
66.084000	20.7	1000.0	120.000	196.0	H	271.0	11.9	19.3	40.0
108.020333	21.4	1000.0	120.000	142.0	H	45.0	13.1	18.6	40.0
139.707000	19.9	1000.0	120.000	127.0	H	271.0	9.4	20.1	40.0
309.101333	24.1	1000.0	120.000	52.0	H	292.0	15.6	22.9	47.0
602.882000	32.3	1000.0	120.000	171.0	H	358.0	22.6	14.7	47.0

(continuation of the "Final Result 1" table from column 9 ...)



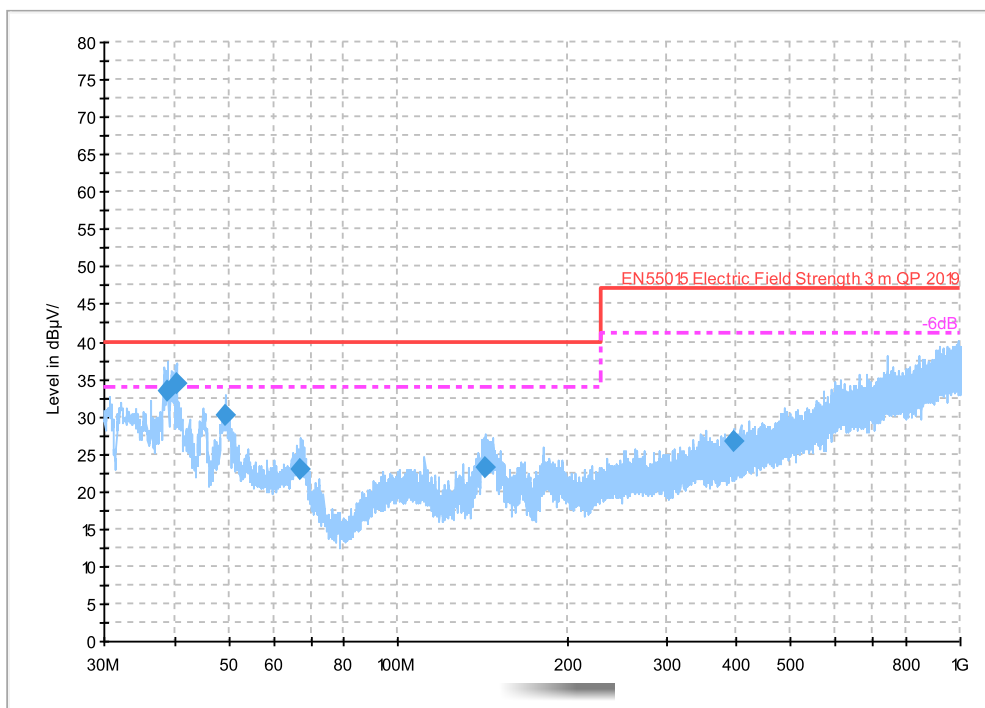
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Mode:a; Polarization:Vertical



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
38.859333	33.4	1000.0	120.000	133.0	V	17.0	12.9	6.6	40.0
40.346667	34.3	1000.0	120.000	125.0	V	44.0	13.5	5.7	40.0
49.367667	30.2	1000.0	120.000	196.0	V	30.0	14.7	9.8	40.0
66.860000	22.8	1000.0	120.000	173.0	V	197.0	11.6	17.2	40.0
142.875667	23.3	1000.0	120.000	154.0	V	17.0	9.4	16.7	40.0
395.625333	26.6	1000.0	120.000	121.0	V	176.0	18.1	20.4	47.0

(continuation of the "Final Result 1" table from column 9 ...)



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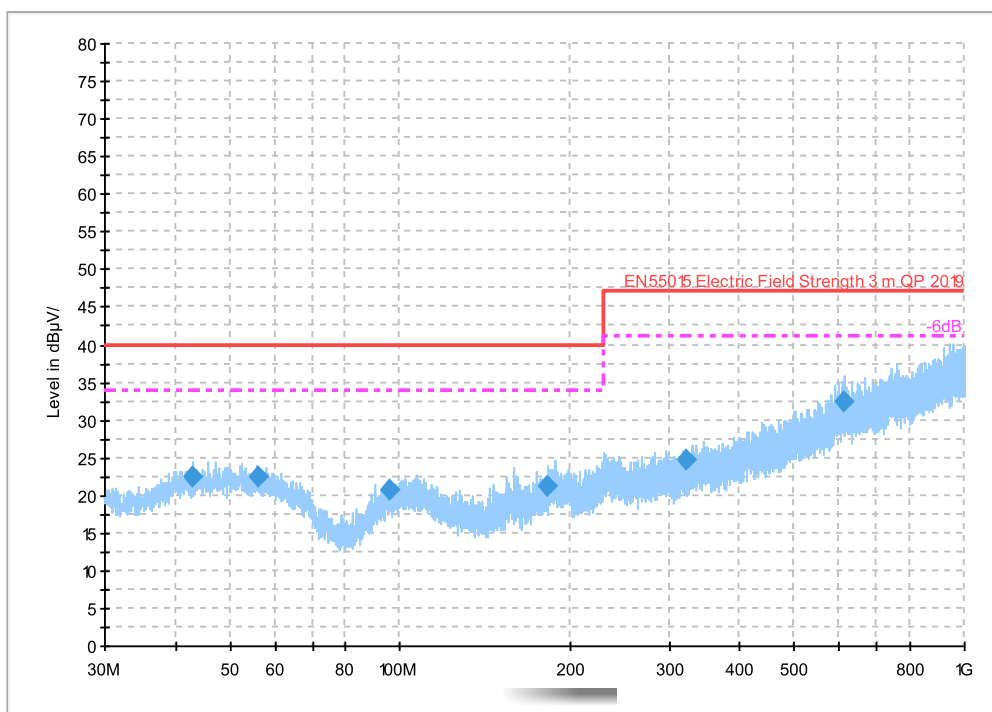
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For model H-1298L8T (980.835020)

Mode:a; Polarization:Horizontal



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
43.030333	22.4	1000.0	120.000	125.0	H	166.0	14.1	17.6	40.0
56.416333	22.3	1000.0	120.000	186.0	H	89.0	14.1	17.7	40.0
96.024667	20.7	1000.0	120.000	154.0	H	238.0	12.6	19.3	40.0
183.066000	21.2	1000.0	120.000	196.0	H	208.0	11.3	18.8	40.0
322.778333	24.6	1000.0	120.000	172.0	H	330.0	16.1	22.4	47.0
613.519667	32.3	1000.0	120.000	134.0	H	166.0	22.7	14.7	47.0

(continuation of the "Final Result 1" table from column 9 ...)



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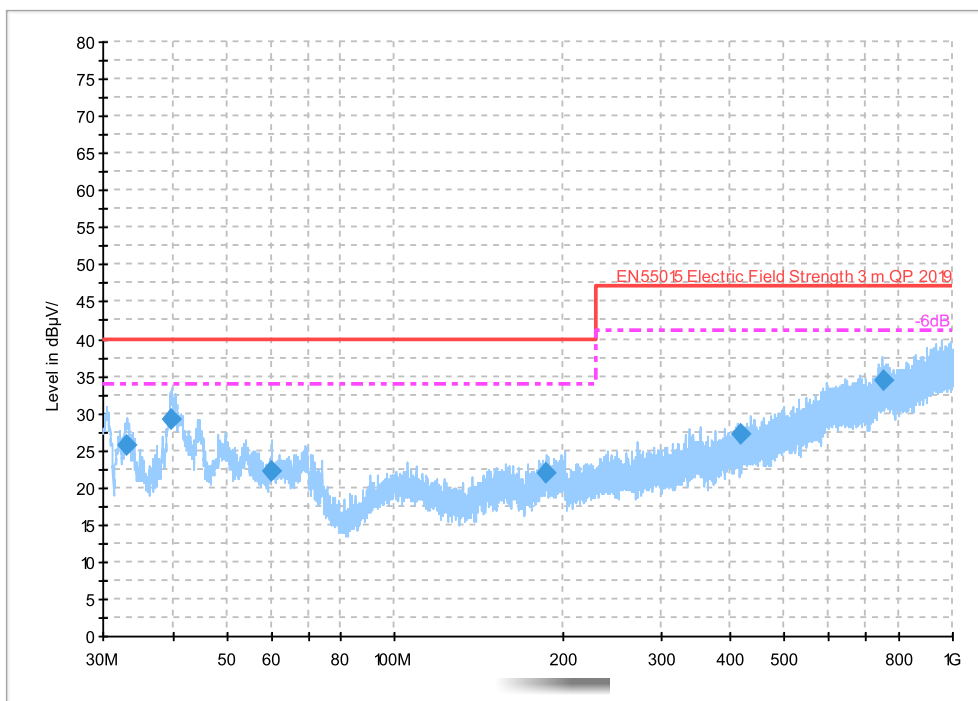
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Mode:a; Polarization:Vertical



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
33.136333	25.8	1000.0	120.000	146.0	V	175.0	10.9	14.2	40.0
39.797000	29.1	1000.0	120.000	123.0	V	280.0	13.3	10.9	40.0
60.328667	22.2	1000.0	120.000	147.0	V	123.0	13.5	17.8	40.0
187.010667	22.0	1000.0	120.000	156.0	V	280.0	11.8	18.0	40.0
418.776000	27.3	1000.0	120.000	139.0	V	196.0	18.7	19.7	47.0
756.174333	34.4	1000.0	120.000	179.0	V	32.0	24.8	12.6	47.0

(continuation of the "Final Result 1" table from column 9 ...)



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6.3 Radiated Emissions (Magnetic field Induced Current)(9kHz-30MHz)

Test Requirement:	EN IEC 55015:2019+A11:2020
Test Method:	EN IEC 55015:2019+A11:2020
Frequency Range:	9kHz to 30MHz
Limit:	
0.009MHz-0.07MHz	88dB(μA) quasi-peak
0.07MHz-0.15MHz	88dB(μA)-58dB(μA) quasi-peak
0.15MHz-3MHz	58dB(μA)-22dB(μA) quasi-peak
3MHz-30MHz	22dB(μA) quasi-peak
Detector:	Peak for pre-scan (200Hz resolution bandwidth) 0.009M to 0.15MHz
	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

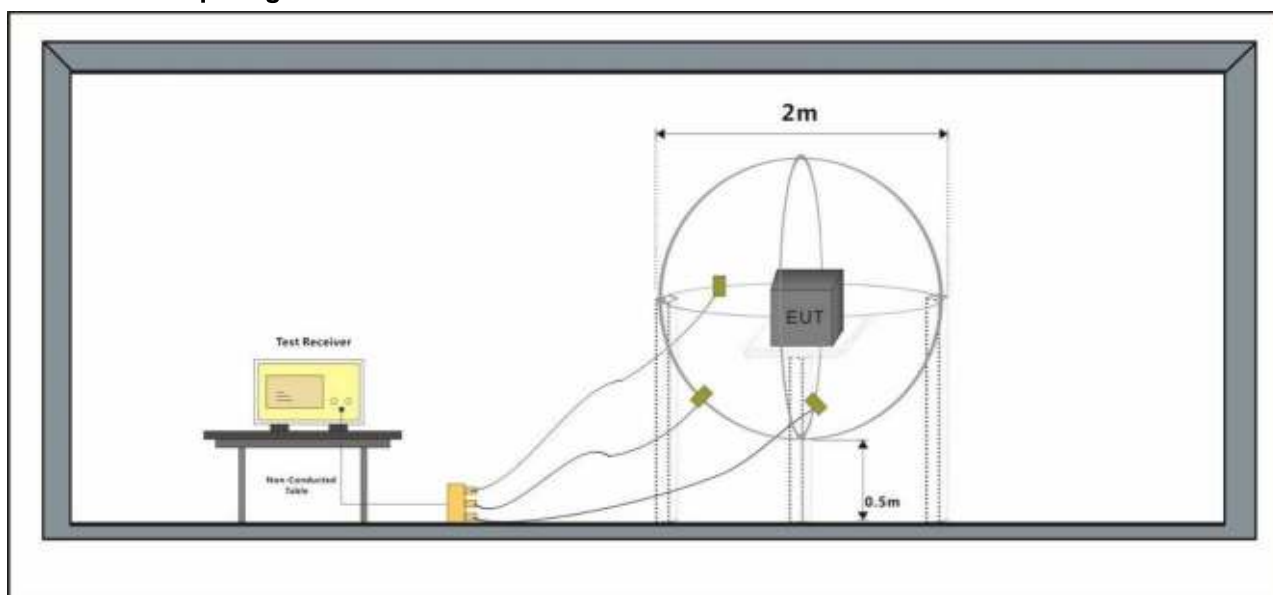
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode a: Lighting mode: Keep EUT lighting continuously.

6.3.2 Test Setup Diagram



6.3.3 Measurement Data

An initial pre-scan was performed in the 2m loop antenna using the spectrum analyser in peak detection mode. The EUT was measured for X(A), Y(B), Z(C) polarities.

Notes: Emission Level=Read Level + Cable Loss



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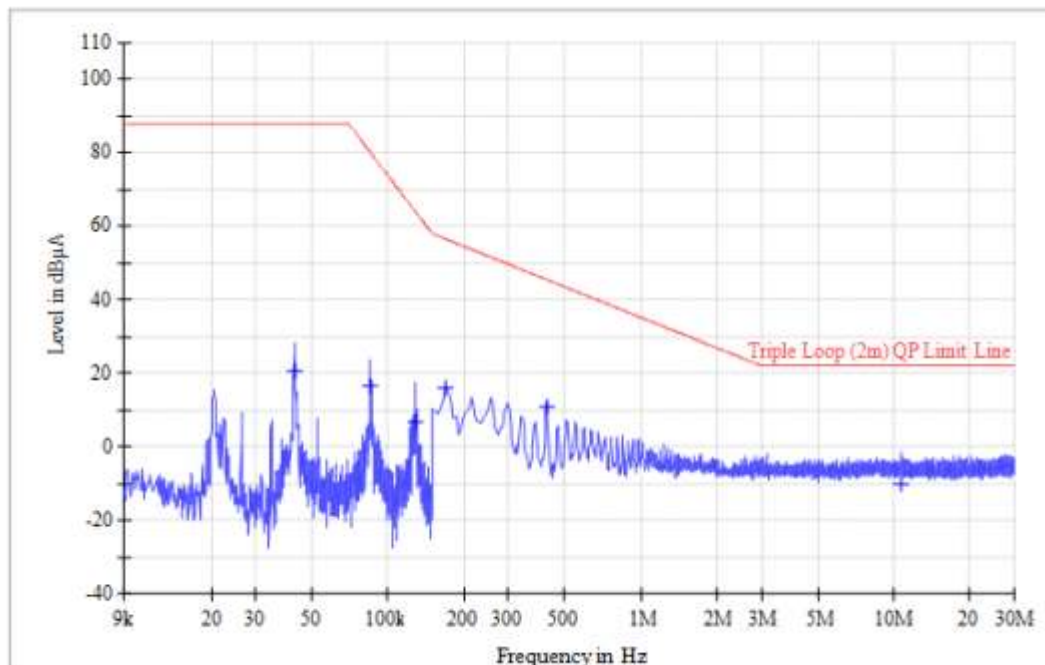
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For model H-1085F50L60XTRSF

Mode:a; Axial:X



Limit and Margin-X

Frequency (MHz)	QuasiPeak (dBμA)	Meas. Time (ms)	Bandwidth (kHz)	Triple Loop frame	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμA)	Comment
0.042600	20.4	1000.0	0.200	X	0.0	67.6	88.0	
0.085300	16.6	1000.0	0.200	X	0.0	63.6	80.2	
0.128300	6.6	1000.0	0.200	X	0.0	57.6	64.2	
0.170000	16.2	1000.0	9.000	X	0.0	40.3	56.5	
0.426000	11.1	1000.0	9.000	X	0.0	34.4	45.5	
10.726000	-10.1	1000.0	9.000	X	0.2	32.1	22.0	



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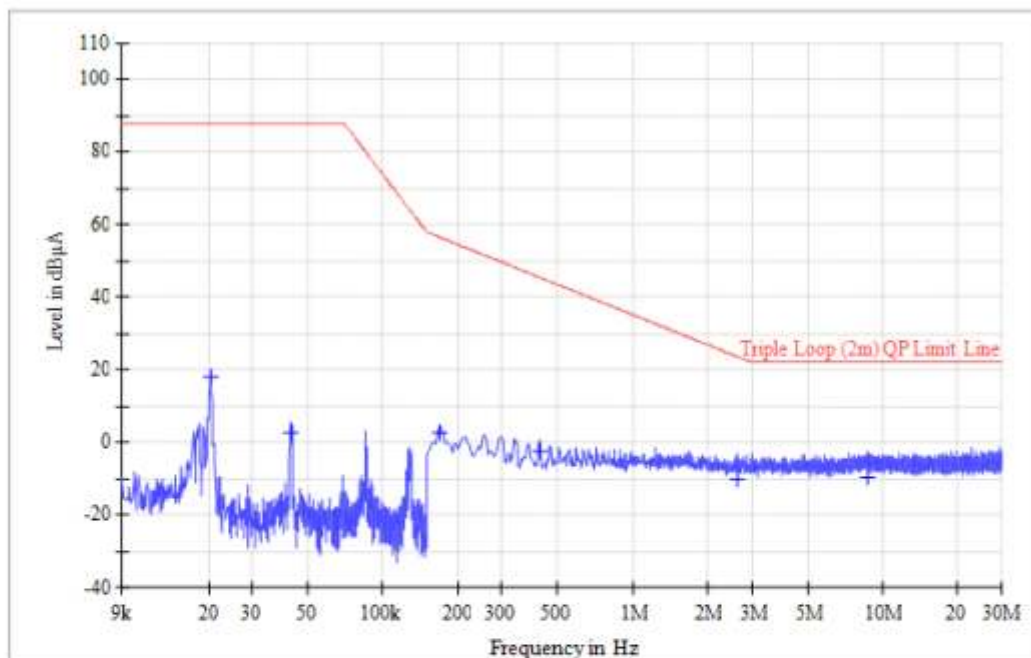
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Mode:a; Axial:Y



Limit and Margin-Y

Frequency (MHz)	QuasiPeak (dBμA)	Meas. Time (ms)	Bandwidth (kHz)	Triple Loop frame	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμA)	Comment
0.020500	18.3	1000.0	0.200	Y	0.0	69.7	88.0	
0.042600	2.8	1000.0	0.200	Y	0.0	85.2	88.0	
0.170000	2.8	1000.0	9.000	Y	0.0	53.7	56.5	
0.426000	-2.7	1000.0	9.000	Y	0.0	48.2	45.5	
2.630000	-10.2	1000.0	9.000	Y	0.1	33.8	23.6	
8.682000	-9.8	1000.0	9.000	Y	0.2	31.8	22.0	



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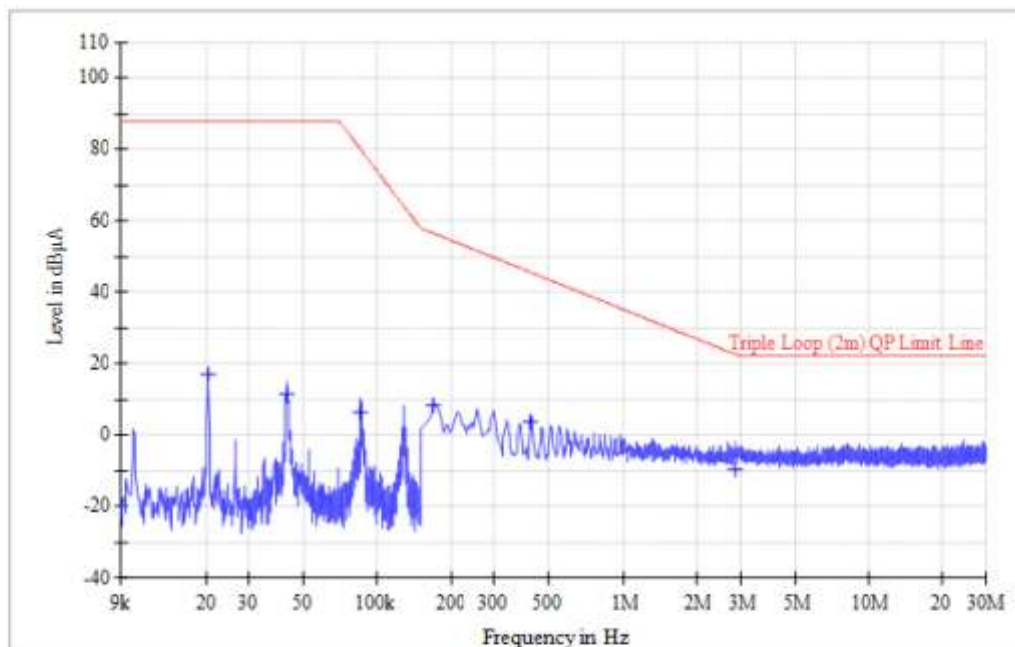
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Mode:a; Axial:Z



Limit and Margin-Z

Frequency (MHz)	QuasiPeak (dBμA)	Meas. Time (ms)	Bandwidth (kHz)	Triple Loop frame	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμA)	Comment
0.020500	16.9	1000.0	0.200	Z	0.0	71.1	88.0	
0.042800	11.3	1000.0	0.200	Z	0.0	76.7	88.0	
0.084900	6.0	1000.0	0.200	Z	0.0	74.4	80.4	
0.170000	8.2	1000.0	9.000	Z	0.0	48.3	56.5	
0.422000	3.4	1000.0	9.000	Z	0.0	42.2	45.6	
2.858000	-9.9	1000.0	9.000	Z	0.1	32.5	22.6	



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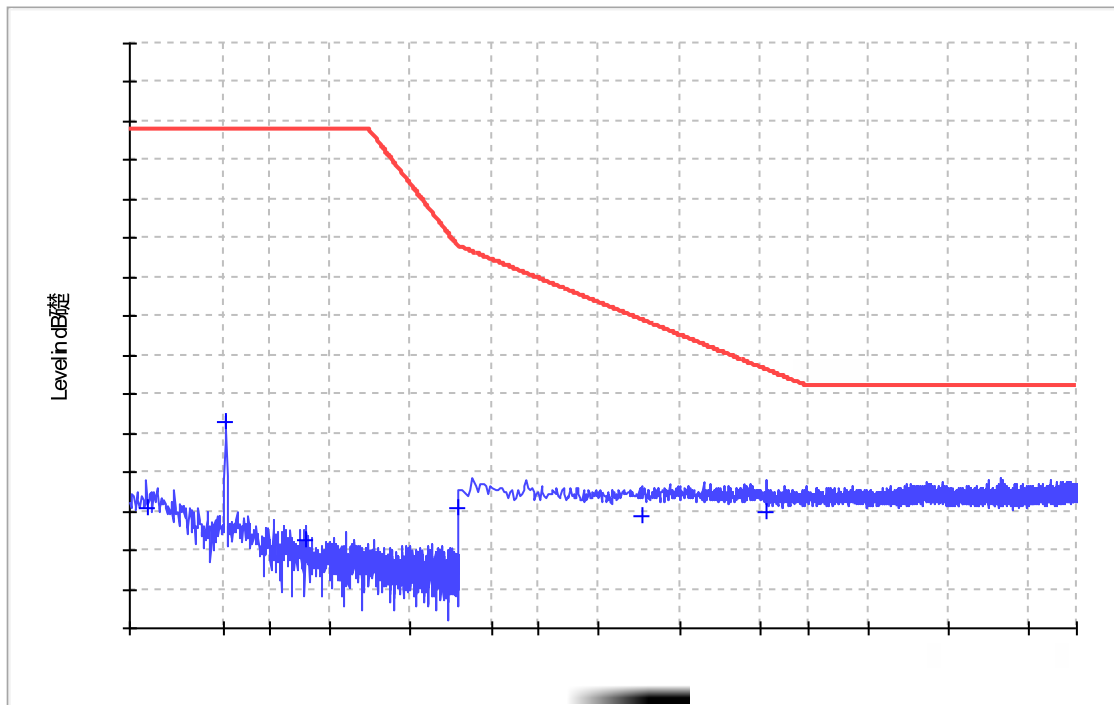
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For model H-1298L15T (980.837021)

Mode:a; Axial:X



Limit and Margin-QP

Frequency (MHz)	QuasiPeak (dBμA)	Meas. Time (ms)	Bandwidth (kHz)	Triple Loop frame	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμA)	Comment
0.010440	-9.3	1000.0	0.200	X	0.0	97.3	88.0	
0.020520	12.9	1000.0	0.200	X	0.0	75.1	88.0	
0.040840	-17.4	1000.0	0.200	X	0.0	105.4	88.0	
0.150000	-9.1	1000.0	9.000	X	0.0	67.1	58.0	
0.722000	-11.3	1000.0	9.000	X	0.1	50.4	39.1	
2.090000	-10.4	1000.0	9.000	X	0.1	36.7	26.3	



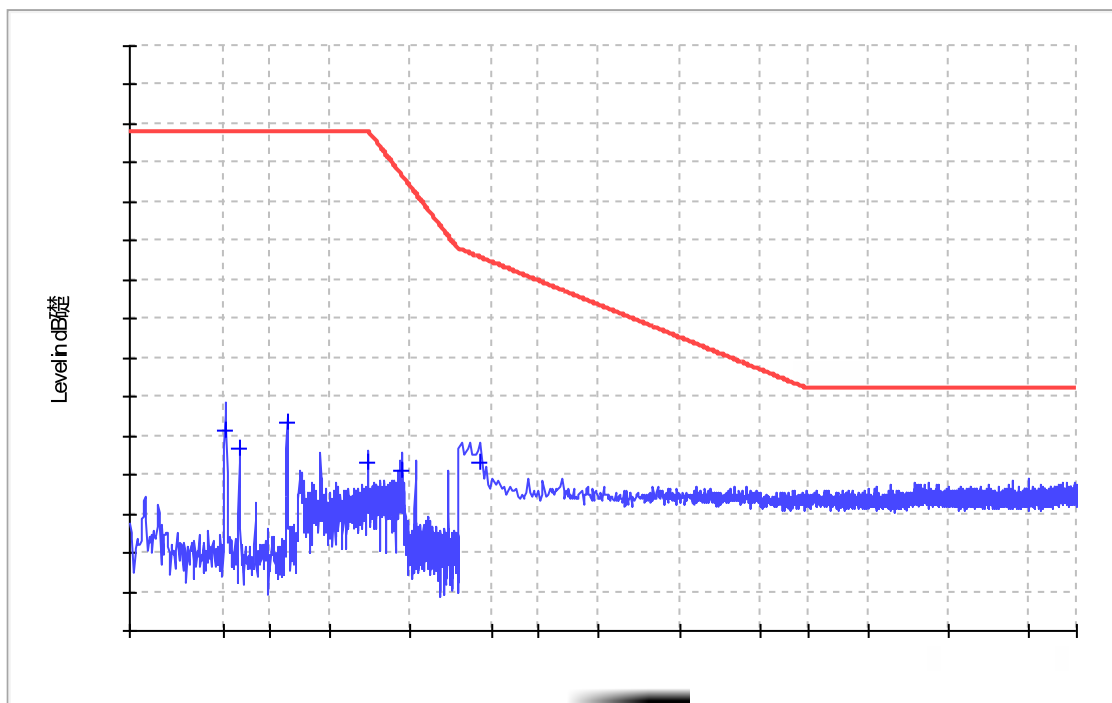
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Mode:a; Axial:Y



Limit and Margin-QP

Frequency (MHz)	QuasiPeak (dBμA)	Meas. Time (ms)	Bandwidth (kHz)	Triple Loop frame	Correction (dB)	Margin - QPK (dB)	Limit - QPK (dBμA)	Comment
0.020520	11.5	1000.0	0.200	Y	0.0	76.5	88.0	
0.023080	6.8	1000.0	0.200	Y	0.0	81.2	88.0	
0.034600	13.3	1000.0	0.200	Y	0.0	74.7	88.0	
0.069320	3.1	1000.0	0.200	Y	0.0	84.9	88.0	
0.092280	1.3	1000.0	0.200	Y	0.0	75.8	77.1	
0.182000	3.0	1000.0	9.000	Y	0.0	52.7	55.7	



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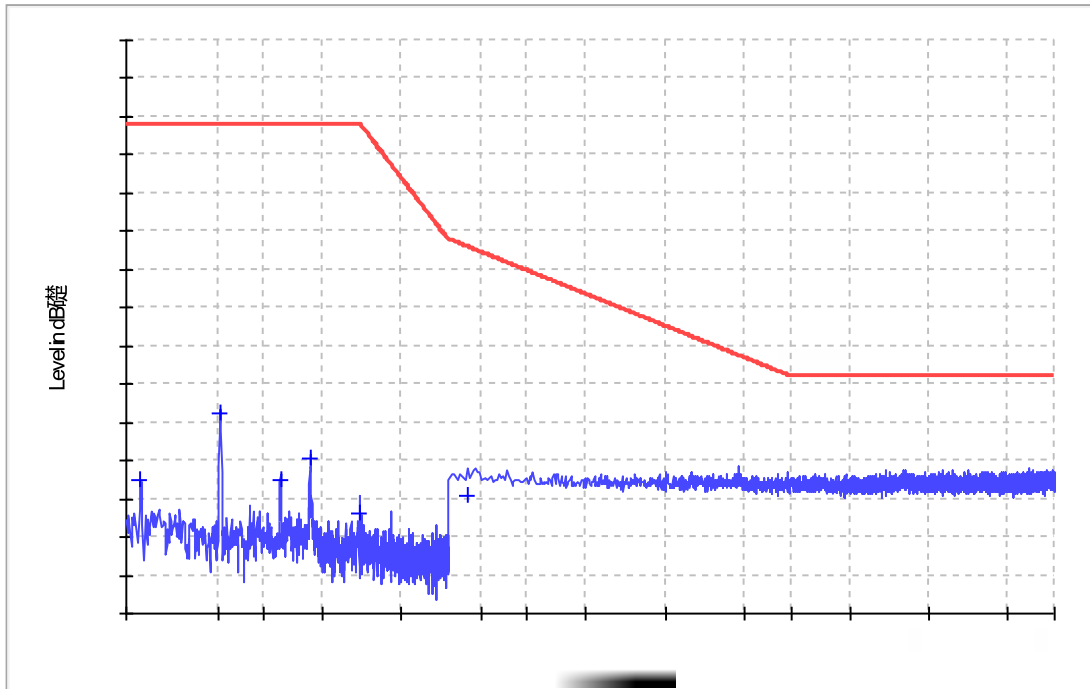
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Mode:a; Axial:Z



Limit and Margin-QP

Frequency (MHz)	QuasiPeak (dBμA)	Meas. Time (ms)	Bandwidth (kHz)	Triple Loop fram	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμA)	Comment
0.010200	-5.0	1000.0	0.200	Z	0.0	93.0	88.0	
0.020520	12.5	1000.0	0.200	Z	0.0	75.5	88.0	
0.034600	-5.0	1000.0	0.200	Z	0.0	93.0	88.0	
0.045000	0.3	1000.0	0.200	Z	0.0	87.7	88.0	
0.069080	-13.8	1000.0	0.200	Z	0.0	101.8	88.0	
0.178000	-8.9	1000.0	9.000	Z	0.0	64.8	55.9	



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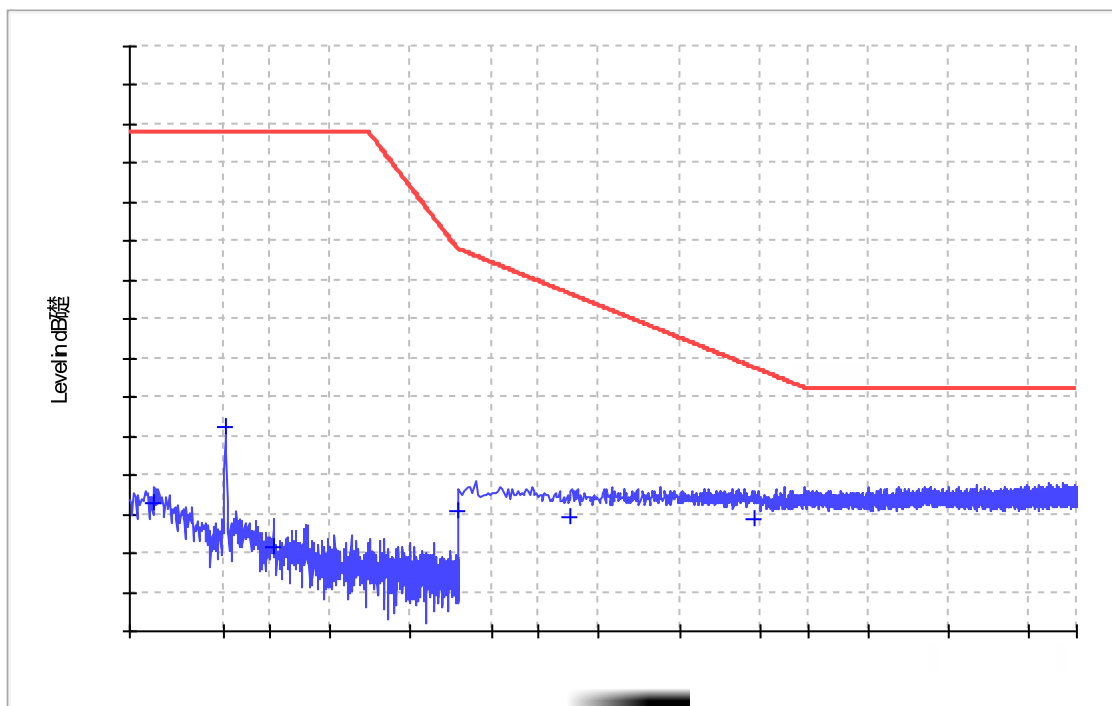
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For model H-2291L20T (FEENS2170EK)

Mode:a; Axial:X



Limit and Margin-QP

Frequency (MHz)	QuasiPeak (dBμA)	Meas. Time (ms)	Bandwidth (kHz)	Triple Loop frame	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμA)	Comment
0.011080	-7.0	1000.0	0.200	X	0.0	95.0	88.0	
0.020520	12.6	1000.0	0.200	X	0.0	75.4	88.0	
0.030840	-18.4	1000.0	0.200	X	0.0	106.4	88.0	
0.150000	-9.0	1000.0	9.000	X	0.0	67.0	58.0	
0.394000	-11.0	1000.0	9.000	X	0.0	57.4	46.4	
1.882000	-11.2	1000.0	9.000	X	0.1	38.8	27.6	



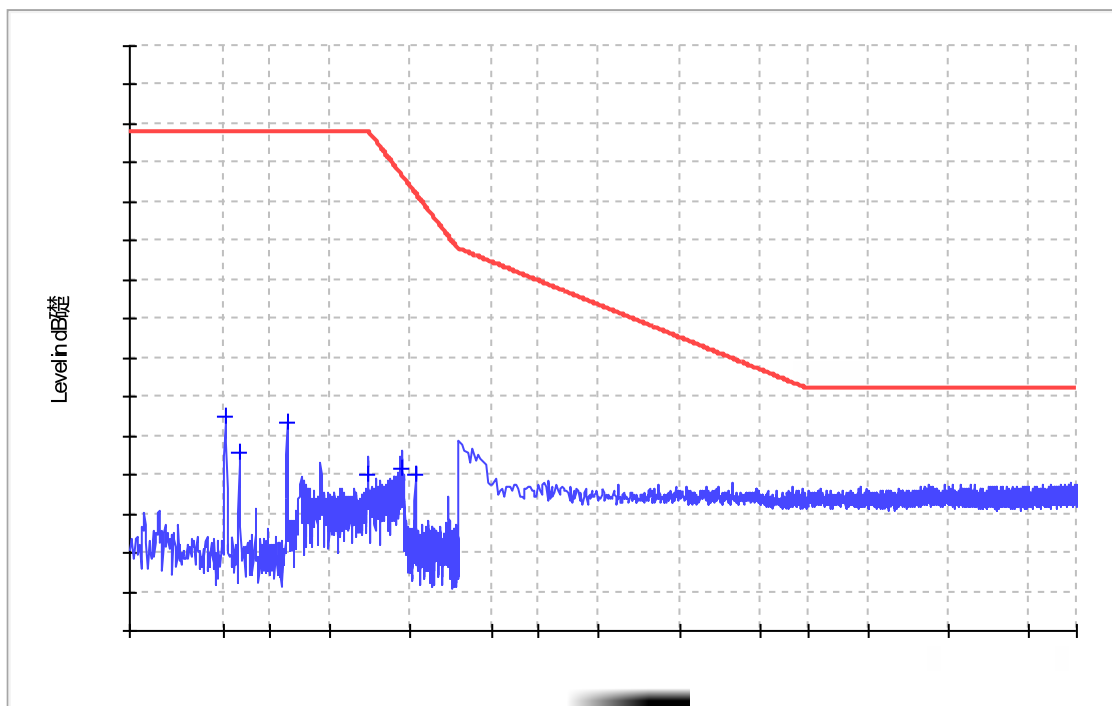
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Limit and Margin-QP

Frequency (MHz)	QuasiPeak (dBμA)	Meas. Time (ms)	Bandwidth (kHz)	Triple Loop fram	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμA)	Comment
0.020440	14.7	1000.0	0.200	Y	0.0	73.3	88.0	
0.023080	5.9	1000.0	0.200	Y	0.0	82.1	88.0	
0.034600	13.4	1000.0	0.200	Y	0.0	74.6	88.0	
0.069400	-0.1	1000.0	0.200	Y	0.0	88.1	88.0	
0.092280	1.5	1000.0	0.200	Y	0.0	75.6	77.1	
0.103880	0.2	1000.0	0.200	Y	0.0	72.3	72.5	



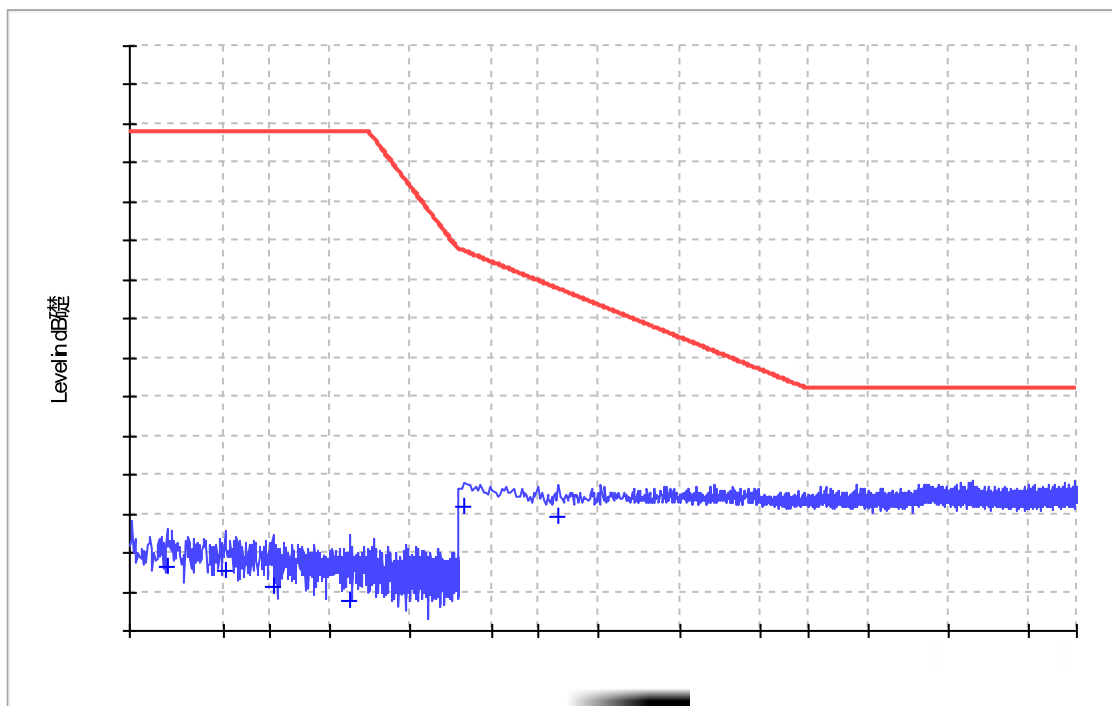
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Limit and Margin-QP

Frequency (MHz)	QuasiPeak (dBμA)	Meas. Time (ms)	Bandwidth (kHz)	Triple Loop frame	Correction (dB)	Margin - QPK (dB)	Limit - QPK (dBμA)	Comment
0.012440	-23.5	1000.0	0.200	Z	0.0	111.5	88.0	
0.020440	-24.6	1000.0	0.200	Z	0.0	112.6	88.0	
0.030680	-28.5	1000.0	0.200	Z	0.0	116.5	88.0	
0.059640	-32.3	1000.0	0.200	Z	0.0	120.3	88.0	
0.158000	-8.1	1000.0	9.000	Z	0.0	65.5	57.4	
0.354000	-10.8	1000.0	9.000	Z	0.0	58.5	47.7	



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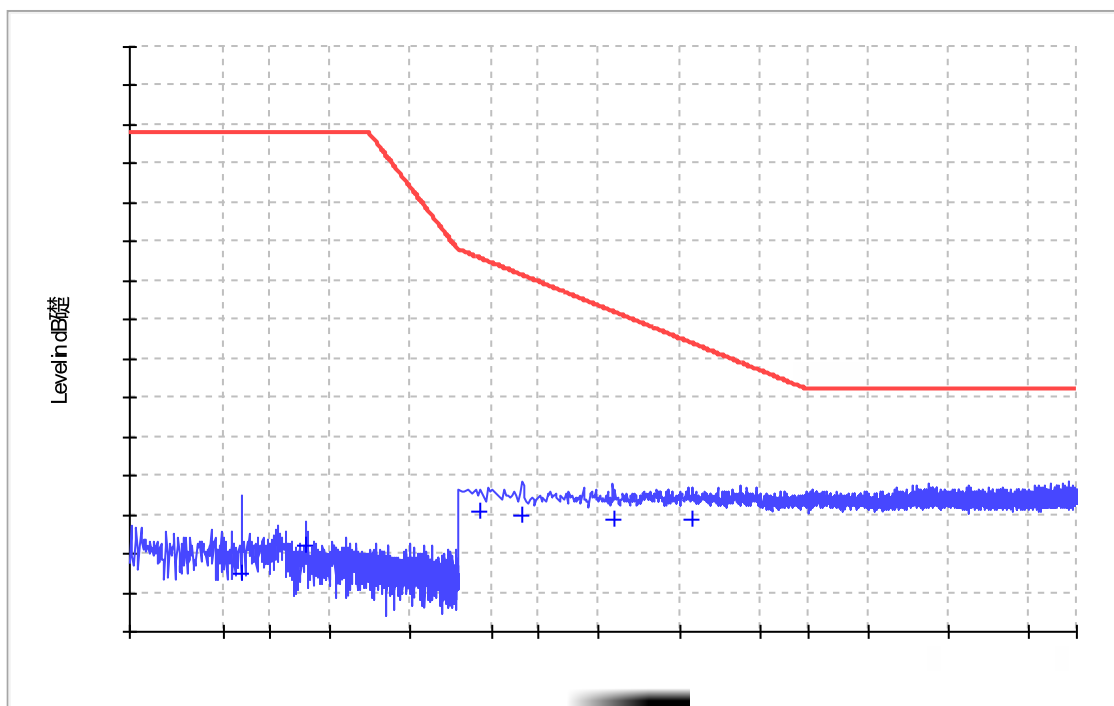
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For model H-1298L8T (980.835020)

Mode:a; Axial:X



Limit and Margin-QP

Frequency (MHz)	QuasiPeak (dBμA)	Meas. Time (ms)	Bandwidth (kHz)	Triple Loop fram	Corr. (dB)	Margi n - QPK (dB)	Limit - QPK (dBμA)	Comme nt
0.023640	-25.0	1000.0	0.200	X	0.0	113.0	88.0	
0.040840	-17.8	1000.0	0.200	X	0.0	105.8	88.0	
0.182000	-9.1	1000.0	9.000	X	0.0	64.8	55.7	
0.258000	-10.3	1000.0	9.000	X	0.0	61.8	51.5	
0.574000	-11.1	1000.0	9.000	X	0.0	53.0	41.9	
1.114000	-11.5	1000.0	9.000	X	0.1	45.4	33.9	



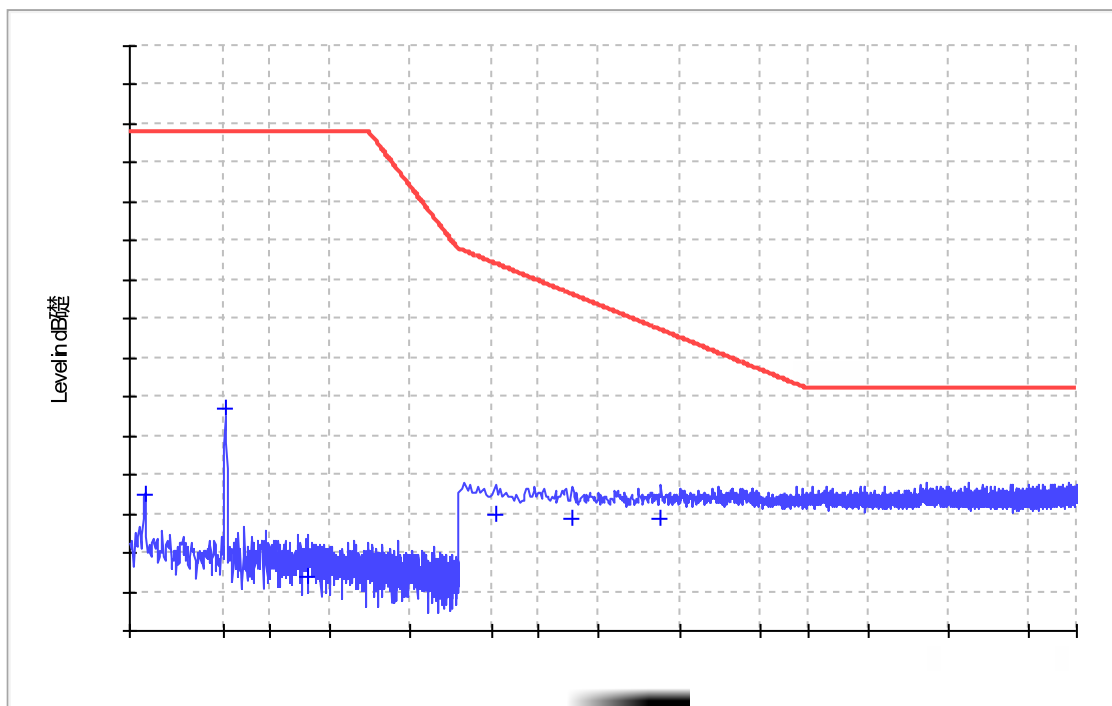
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Mode:a; Axial:Y



Limit and Margin-QP

Frequency (MHz)	QuasiPeak (dBμA)	Meas. Time (ms)	Bandwidth (kHz)	Triple Loop frame	Correction (dB)	Margin - QPK (dB)	Limit - QPK (dBμA)	Comment
0.010280	-5.2	1000.0	0.200	Y	0.0	93.2	88.0	
0.020520	16.9	1000.0	0.200	Y	0.0	71.1	88.0	
0.041240	-26.3	1000.0	0.200	Y	0.0	114.3	88.0	
0.206000	-10.0	1000.0	9.000	Y	0.0	64.2	54.2	
0.398000	-11.1	1000.0	9.000	Y	0.0	57.4	46.3	
0.854000	-11.2	1000.0	9.000	Y	0.1	48.3	37.1	



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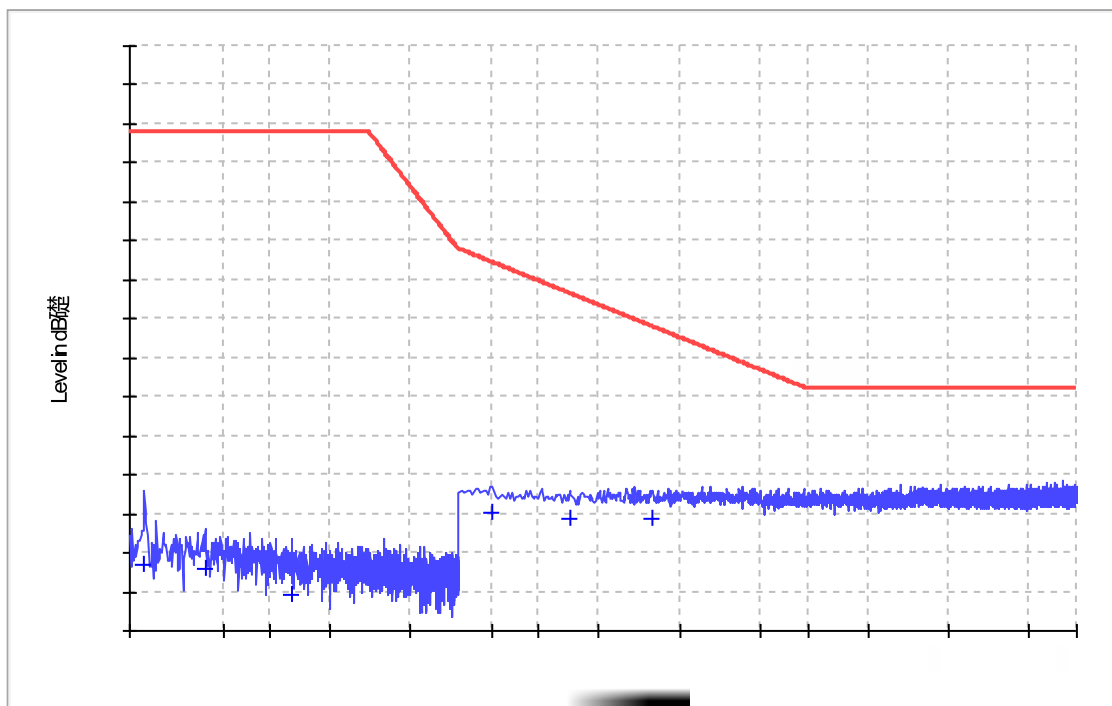
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Limit and Margin-QP

Frequency (MHz)	QuasiPeak (dBμA)	Meas. Time (ms)	Bandwidth (kHz)	Triple Loop frame	Correction (dB)	Margin - QPK (dB)	Limit - QPK (dBμA)	Comment
0.010200	-22.8	1000.0	0.200	Z	0.0	110.8	88.0	
0.017240	-24.2	1000.0	0.200	Z	0.0	112.2	88.0	
0.036120	-30.6	1000.0	0.200	Z	0.0	118.6	88.0	
0.202000	-9.9	1000.0	9.000	Z	0.0	64.3	54.4	
0.390000	-11.1	1000.0	9.000	Z	0.0	57.6	46.5	
0.794000	-11.5	1000.0	9.000	Z	0.1	49.5	38.0	



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6.4 Harmonic Current Emission

Test Requirement: EN IEC 61000-3-2:2019+A1:2020

Test Method: EN IEC 61000-3-2:2019+A1:2020

Frequency Range: 100Hz to 2kHz

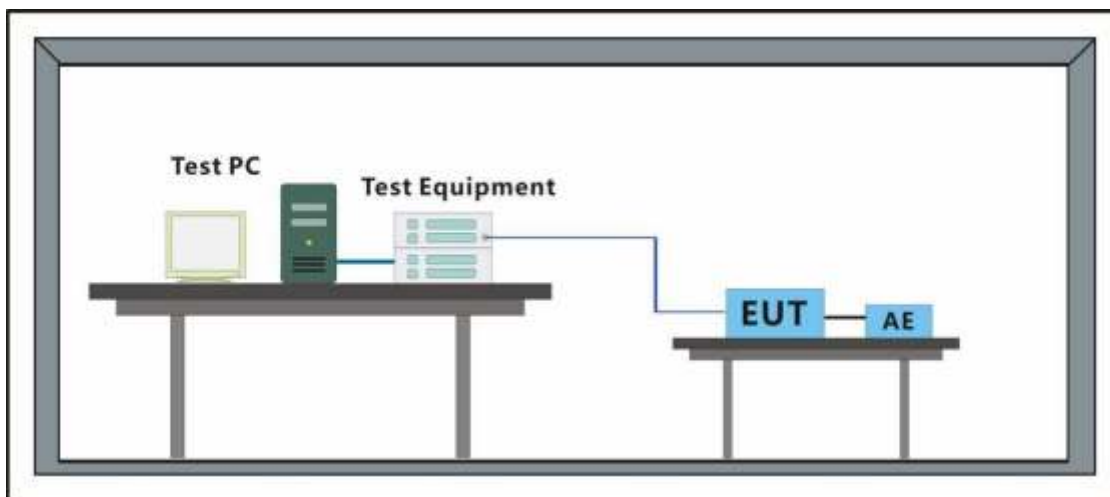
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode: a: Lighting mode: Keep EUT lighting continuously.

6.4.2 Test Setup



6.4.3 Measurement Data



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For model H-1085F50L60XTRSF

Mode a:

Average harmonic current results

Hn	I _{eff} [A]	I _{eff} [%]	Limit [A]	Result
1	304.782E-3	100.000		
2	4.061E-3	1.332	1.08	PASS
3	60.677E-3	19.908	2.30	PASS
4	4.413E-3	1.448	430.00E-3	PASS
5	58.146E-3	19.078	1.14	PASS
6	4.144E-3	1.360	300.00E-3	PASS
7	54.504E-3	17.883	770.00E-3	PASS
8	4.204E-3	1.379	230.00E-3	PASS
9	49.722E-3	16.314	400.00E-3	PASS
10	3.977E-3	1.305	184.00E-3	PASS
11	44.793E-3	14.697	330.00E-3	PASS
12	4.006E-3	1.315	153.33E-3	PASS
13	38.722E-3	12.705	210.00E-3	PASS
14	3.724E-3	1.222	131.43E-3	PASS
15	32.897E-3	10.794	150.00E-3	PASS
16	3.383E-3	1.110	115.00E-3	PASS
17	26.815E-3	8.798	132.35E-3	PASS
18	3.204E-3	1.051	102.22E-3	PASS
19	21.087E-3	6.919	118.42E-3	PASS
20	2.424E-3	0.795	92.00E-3	PASS
21	15.734E-3	5.162	160.71E-3	PASS
22	2.103E-3	0.690	83.64E-3	PASS
23	11.103E-3	3.643	146.74E-3	PASS
24	1.566E-3	0.514	76.66E-3	PASS
25	7.031E-3	2.307	135.00E-3	PASS
26	1.112E-3	0.365	70.77E-3	PASS
27	3.586E-3	1.176	124.99E-3	PASS
28	1.413E-3	0.464	65.71E-3	PASS
29	1.594E-3	0.523	116.39E-3	PASS
30	739.894E-6	0.243	61.33E-3	PASS
31	1.320E-3	0.433	108.87E-3	PASS
32	1.255E-3	0.412	57.50E-3	PASS
33	2.399E-3	0.787	102.27E-3	PASS
34	828.866E-6	0.272	54.12E-3	PASS
35	2.845E-3	0.934	96.44E-3	PASS
36	954.790E-6	0.313	51.11E-3	PASS
37	2.951E-3	0.968	91.21E-3	PASS
38	927.164E-6	0.304	48.42E-3	PASS
39	2.830E-3	0.928	86.53E-3	PASS
40	915.723E-6	0.300	46.00E-3	PASS



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Maximum harmonic current results

Hn	I _{eff} [A]	I _{eff} [%]	Limit [A]	Result
1	305.171E-3	100.000		
2	4.874E-3	1.597	1.62	PASS
3	60.871E-3	19.947	3.45	PASS
4	5.218E-3	1.710	645.00E-3	PASS
5	58.321E-3	19.111	1.71	PASS
6	5.044E-3	1.653	450.00E-3	PASS
7	54.663E-3	17.912	1.15	PASS
8	4.950E-3	1.622	345.00E-3	PASS
9	49.874E-3	16.343	600.00E-3	PASS
10	4.813E-3	1.577	276.00E-3	PASS
11	44.928E-3	14.722	495.00E-3	PASS
12	4.835E-3	1.584	229.99E-3	PASS
13	38.938E-3	12.759	315.00E-3	PASS
14	4.480E-3	1.468	197.15E-3	PASS
15	33.130E-3	10.856	225.00E-3	PASS
16	4.080E-3	1.337	172.50E-3	PASS
17	26.932E-3	8.825	198.52E-3	PASS
18	3.758E-3	1.231	153.33E-3	PASS
19	21.215E-3	6.952	177.63E-3	PASS
20	2.972E-3	0.974	138.00E-3	PASS
21	15.857E-3	5.196	160.71E-3	PASS
22	2.569E-3	0.842	125.46E-3	PASS
23	11.335E-3	3.714	146.74E-3	PASS
24	1.874E-3	0.614	114.99E-3	PASS
25	7.167E-3	2.349	135.00E-3	PASS
26	1.319E-3	0.432	106.16E-3	PASS
27	3.723E-3	1.220	124.99E-3	PASS
28	1.504E-3	0.493	98.57E-3	PASS
29	1.746E-3	0.572	116.39E-3	PASS
30	811.198E-6	0.266	92.00E-3	PASS
31	1.391E-3	0.456	108.87E-3	PASS
32	1.353E-3	0.443	86.25E-3	PASS
33	2.518E-3	0.825	102.27E-3	PASS
34	926.238E-6	0.304	81.18E-3	PASS
35	2.968E-3	0.972	96.44E-3	PASS
36	1.039E-3	0.340	76.66E-3	PASS
37	3.243E-3	1.063	91.21E-3	PASS
38	1.040E-3	0.341	72.63E-3	PASS
39	2.915E-3	0.955	86.53E-3	PASS
40	1.046E-3	0.343	69.00E-3	PASS



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Maximum harmonic voltage results

Hn	Ueff [V]	Ueff [%]	Limit [%]	Result
1	230.64	100.279		
2	85.17E-3	0.037	0.2	PASS
3	491.00E-3	0.213	0.9	PASS
4	54.91E-3	0.024	0.2	PASS
5	33.61E-3	0.015	0.4	PASS
6	48.66E-3	0.021	0.2	PASS
7	36.47E-3	0.016	0.3	PASS
8	20.35E-3	0.009	0.2	PASS
9	28.39E-3	0.012	0.2	PASS
10	14.67E-3	0.006	0.2	PASS
11	28.38E-3	0.012	0.1	PASS
12	11.42E-3	0.005	0.1	PASS
13	31.21E-3	0.014	0.1	PASS
14	9.53E-3	0.004	0.1	PASS
15	24.20E-3	0.011	0.1	PASS
16	7.23E-3	0.003	0.1	PASS
17	25.65E-3	0.011	0.1	PASS
18	15.87E-3	0.007	0.1	PASS
19	25.25E-3	0.011	0.1	PASS
20	9.11E-3	0.004	0.1	PASS
21	24.68E-3	0.011	0.1	PASS
22	8.69E-3	0.004	0.1	PASS
23	16.08E-3	0.007	0.1	PASS
24	7.36E-3	0.003	0.1	PASS
25	15.18E-3	0.007	0.1	PASS
26	8.84E-3	0.004	0.1	PASS
27	8.76E-3	0.004	0.1	PASS
28	7.15E-3	0.003	0.1	PASS
29	11.03E-3	0.005	0.1	PASS
30	6.06E-3	0.003	0.1	PASS
31	8.84E-3	0.004	0.1	PASS
32	8.16E-3	0.004	0.1	PASS
33	6.90E-3	0.003	0.1	PASS
34	8.09E-3	0.004	0.1	PASS
35	8.71E-3	0.004	0.1	PASS
36	7.79E-3	0.003	0.1	PASS
37	10.76E-3	0.005	0.1	PASS
38	6.99E-3	0.003	0.1	PASS
39	11.21E-3	0.005	0.1	PASS
40	9.42E-3	0.004	0.1	PASS

Power and THD results - DS: 1

True power P:	69.81W	Apparent power S:	77.16VA
Reactive power Q:	32.85var	Power factor:	0.905
THD (U):	0.002	THD (I):	0.451
Crest Factor (U):	1.414	Crest Factor (I):	3.017



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For model H-1298L15T (980.837021)

Mode a:

Harmonic current results

Hn	I _{eff} [A]	I _{eff} [%]	Limit [%]	Result
1	67.956E-3	100.000		
2	754.773E-6	1.111		PASS
3	21.866E-3	32.176	86.00	PASS
4	415.682E-6	0.612		PASS
5	4.898E-3	7.208	61.00	PASS
6	679.418E-6	1.000		PASS
7	18.098E-3	26.632		PASS
8	301.785E-6	0.444		PASS
9	10.311E-3	15.173		PASS
10	495.207E-6	0.729		PASS
11	2.814E-3	4.141		PASS
12	655.618E-6	0.965		PASS
13	4.972E-3	7.317		PASS
14	212.112E-6	0.312		PASS
15	4.308E-3	6.340		PASS
16	462.223E-6	0.680		PASS
17	4.525E-3	6.659		PASS
18	1.060E-3	1.560		PASS
19	3.454E-3	5.083		PASS
20	212.295E-6	0.312		PASS
21	2.709E-3	3.987		PASS
22	154.594E-6	0.227		PASS
23	1.830E-3	2.692		PASS
24	271.092E-6	0.399		PASS
25	2.934E-3	4.317		PASS
26	184.488E-6	0.271		PASS
27	3.372E-3	4.963		PASS
28	245.984E-6	0.362		PASS
29	1.324E-3	1.948		PASS
30	466.254E-6	0.686		PASS
31	1.612E-3	2.372		PASS
32	115.133E-6	0.169		PASS
33	2.301E-3	3.385		PASS
34	406.770E-6	0.599		PASS
35	1.583E-3	2.330		PASS
36	287.494E-6	0.423		PASS
37	1.813E-3	2.668		PASS
38	198.731E-6	0.292		PASS
39	2.044E-3	3.007		PASS
40	106.880E-6	0.157		PASS

Power and THD results

True power P:	13.27W	Apparent power S:	17.41VA
Reactiv power Q:	11.26var	Power factor:	0.762
THD (U):	0.002	THD (I):	0.485
Crest Factor (U):	1.413	Crest Factor (I):	1.333



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Harmonic voltage results

Hn	Ueff [V]	Ueff [%]	Limit [%]	Result
1	230.48	100.207		
2	69.93E-3	0.030	0.2	PASS
3	462.66E-3	0.201	0.9	PASS
4	42.07E-3	0.018	0.2	PASS
5	39.32E-3	0.017	0.4	PASS
6	27.45E-3	0.012	0.2	PASS
7	21.23E-3	0.009	0.3	PASS
8	9.94E-3	0.004	0.2	PASS
9	26.11E-3	0.011	0.2	PASS
10	2.97E-3	0.001	0.2	PASS
11	4.33E-3	0.002	0.1	PASS
12	5.47E-3	0.002	0.1	PASS
13	4.05E-3	0.002	0.1	PASS
14	3.05E-3	0.001	0.1	PASS
15	6.04E-3	0.003	0.1	PASS
16	4.24E-3	0.002	0.1	PASS
17	4.33E-3	0.002	0.1	PASS
18	12.88E-3	0.006	0.1	PASS
19	3.71E-3	0.002	0.1	PASS
20	4.30E-3	0.002	0.1	PASS
21	2.24E-3	0.001	0.1	PASS
22	2.04E-3	0.001	0.1	PASS
23	424.09E-6	0.000	0.1	PASS
24	5.72E-3	0.002	0.1	PASS
25	5.51E-3	0.002	0.1	PASS
26	761.27E-6	0.000	0.1	PASS
27	3.40E-3	0.001	0.1	PASS
28	3.80E-3	0.002	0.1	PASS
29	5.83E-3	0.003	0.1	PASS
30	2.25E-3	0.001	0.1	PASS
31	6.07E-3	0.003	0.1	PASS
32	2.88E-3	0.001	0.1	PASS
33	3.20E-3	0.001	0.1	PASS
34	3.42E-3	0.001	0.1	PASS
35	3.72E-3	0.002	0.1	PASS
36	399.84E-6	0.000	0.1	PASS
37	2.49E-3	0.001	0.1	PASS
38	6.45E-3	0.003	0.1	PASS
39	3.00E-3	0.001	0.1	PASS
40	2.77E-3	0.001	0.1	PASS



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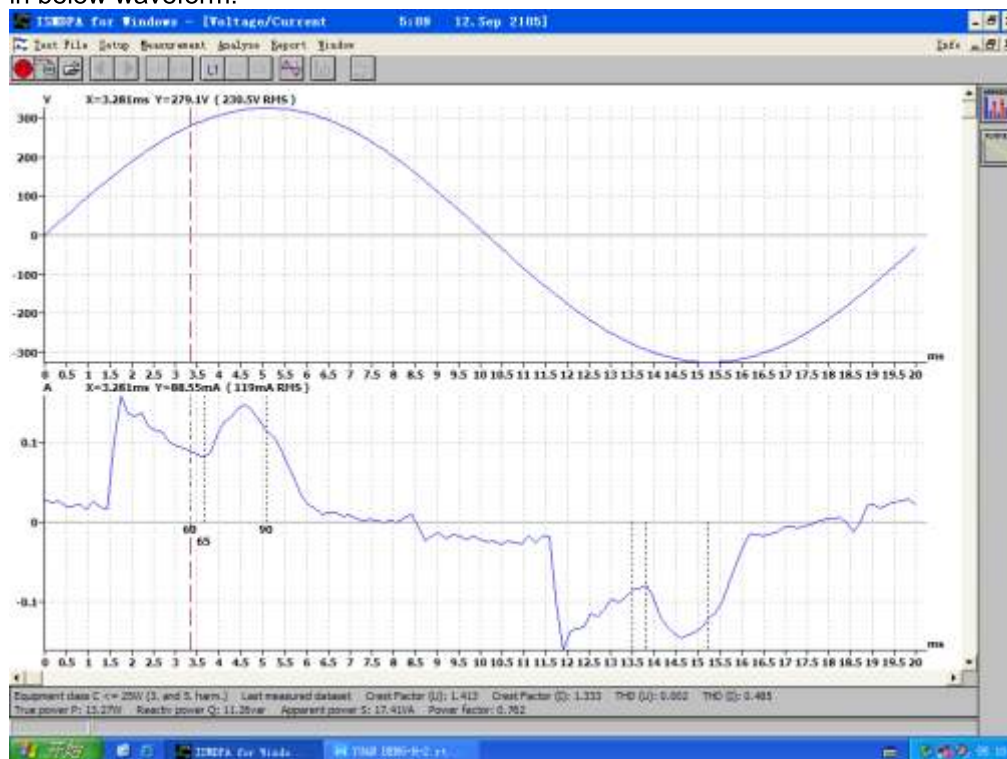
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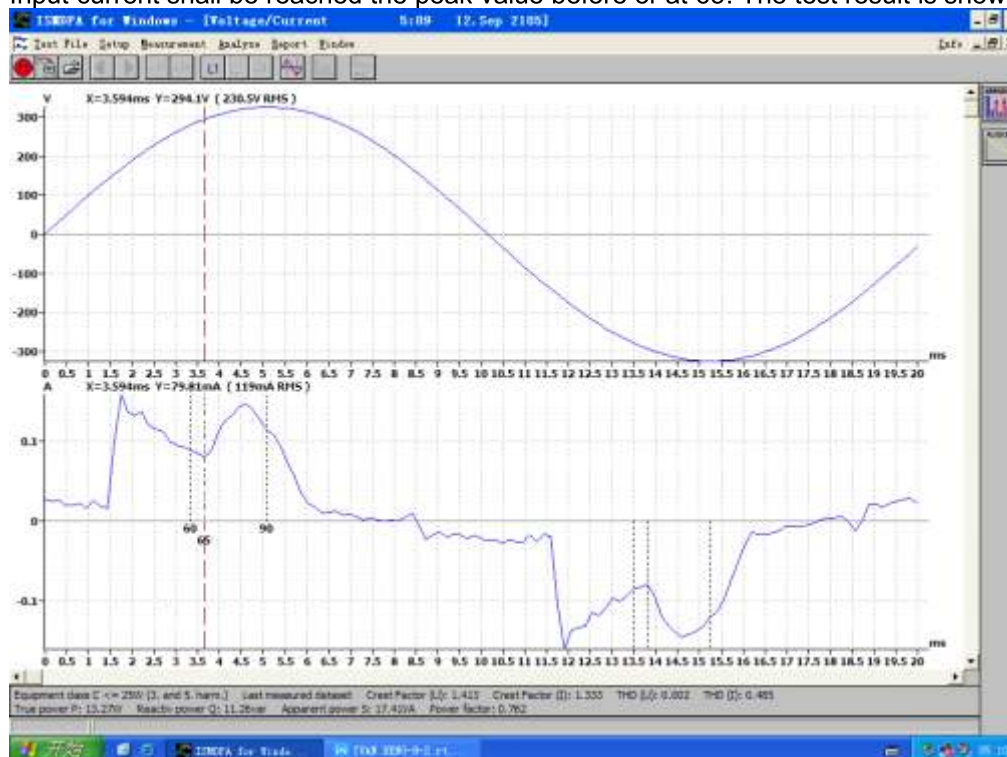
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Input current shall be such that it reaches the 5 % current threshold before or at 60°. The test result is shown in below waveform.



Input current shall be reached the peak value before or at 65°. The test result is shown in below waveform.



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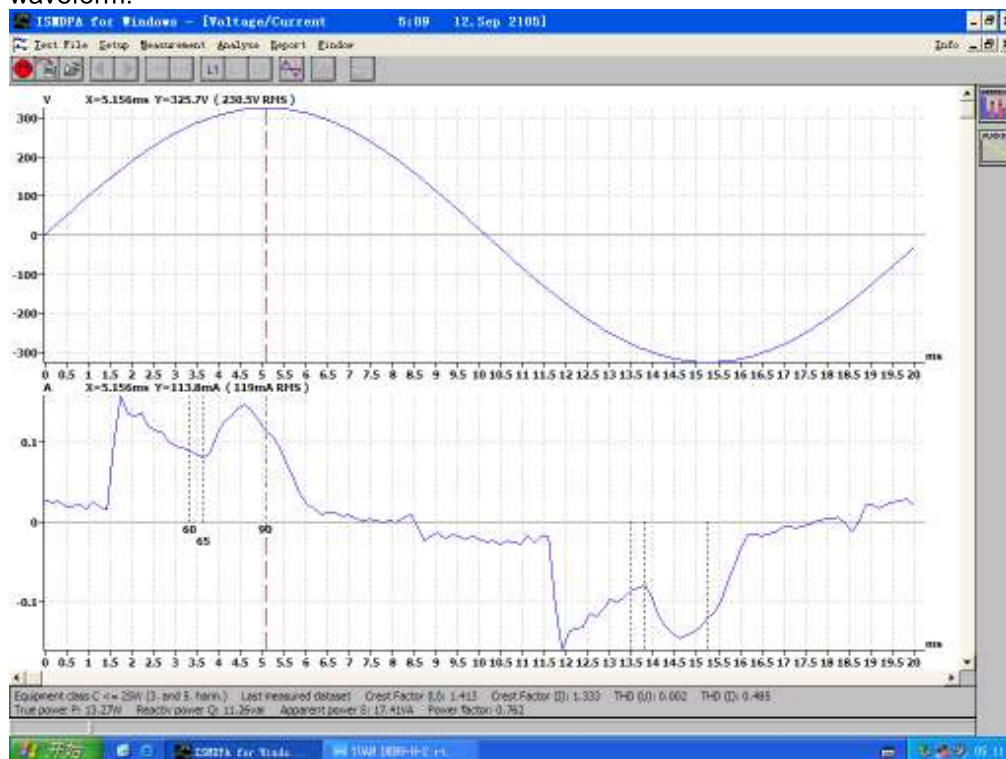
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Input current does not fall below the 5 % current threshold before 90°. The test result is shown in below waveform.



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For model H-2291L20T (FEENS2170EK)

Mode a:

I_Fund (Amps):0.048			
Harm	Harms(avg)	Limit	Status
2	0.000	0.005	Pass
3	0.027	0.035	Pass
5	0.005	0.025	Pass
7	0.024	0.030	Pass
9	0.011	0.020	Pass
11	0.006	0.020	Pass
Limit for I-THD(%):	Measuring value (%)	Status	
70	42.4	Pass	



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For model H-1298L8T (980.835020)

Mode a:

Harmonic current results

Hn	I _{eff} [A]	I _{eff} [%]	Limit [%]	Result
1	38.601E-3	100.000		
2	703.771E-6	1.823		PASS
3	23.036E-3	59.678	86.00	PASS
4	152.051E-6	0.394		PASS
5	8.348E-3	21.627	61.00	PASS
6	505.801E-6	1.310		PASS
7	9.008E-3	23.336		PASS
8	638.017E-6	1.653		PASS
9	8.309E-3	21.526		PASS
10	344.099E-6	0.891		PASS
11	2.942E-3	7.622		PASS
12	279.030E-6	0.723		PASS
13	4.486E-3	11.620		PASS
14	248.586E-6	0.644		PASS
15	5.268E-3	13.649		PASS
16	68.967E-6	0.179		PASS
17	2.964E-3	7.678		PASS
18	374.847E-6	0.971		PASS
19	2.093E-3	5.422		PASS
20	467.965E-6	1.212		PASS
21	3.679E-3	9.530		PASS
22	162.343E-6	0.421		PASS
23	3.143E-3	8.143		PASS
24	158.085E-6	0.410		PASS
25	1.304E-3	3.379		PASS
26	181.183E-6	0.469		PASS
27	2.643E-3	6.846		PASS
28	366.697E-6	0.950		PASS
29	2.554E-3	6.617		PASS
30	203.289E-6	0.527		PASS
31	1.505E-3	3.900		PASS
32	1.291E-3	3.345		PASS
33	1.755E-3	4.546		PASS
34	132.749E-6	0.344		PASS
35	2.250E-3	5.829		PASS
36	94.489E-6	0.245		PASS
37	2.127E-3	5.509		PASS
38	19.745E-6	0.051		PASS
39	1.529E-3	3.961		PASS
40	313.507E-6	0.812		PASS

Power and THD results

True power P:	7.206W	Apparent power S:	11.25VA
Reactiv power Q:	8.645var	Power factor:	0.640
THD (U):	0.002	THD (I):	0.774
Crest Factor (U):	1.413	Crest Factor (I):	2.719



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Harmonic voltage results

Hn	Ueff [V]	Ueff [%]	Limit [%]	Result
1	230.61	100.267		
2	68.18E-3	0.030	0.2	PASS
3	461.14E-3	0.200	0.9	PASS
4	26.72E-3	0.012	0.2	PASS
5	47.65E-3	0.021	0.4	PASS
6	41.34E-3	0.018	0.2	PASS
7	15.70E-3	0.007	0.3	PASS
8	3.62E-3	0.002	0.2	PASS
9	27.13E-3	0.012	0.2	PASS
10	2.19E-3	0.001	0.2	PASS
11	3.41E-3	0.001	0.1	PASS
12	5.69E-3	0.002	0.1	PASS
13	5.85E-3	0.003	0.1	PASS
14	1.08E-3	0.000	0.1	PASS
15	6.64E-3	0.003	0.1	PASS
16	2.30E-3	0.001	0.1	PASS
17	1.28E-3	0.001	0.1	PASS
18	7.13E-3	0.003	0.1	PASS
19	3.10E-3	0.001	0.1	PASS
20	5.12E-3	0.002	0.1	PASS
21	7.81E-3	0.003	0.1	PASS
22	2.66E-3	0.001	0.1	PASS
23	7.28E-3	0.003	0.1	PASS
24	3.93E-3	0.002	0.1	PASS
25	3.12E-3	0.001	0.1	PASS
26	933.44E-6	0.000	0.1	PASS
27	3.77E-3	0.002	0.1	PASS
28	2.07E-3	0.001	0.1	PASS
29	1.56E-3	0.001	0.1	PASS
30	1.93E-3	0.001	0.1	PASS
31	3.95E-3	0.002	0.1	PASS
32	1.47E-3	0.001	0.1	PASS
33	1.99E-3	0.001	0.1	PASS
34	3.04E-3	0.001	0.1	PASS
35	2.78E-3	0.001	0.1	PASS
36	3.01E-3	0.001	0.1	PASS
37	4.52E-3	0.002	0.1	PASS
38	1.36E-3	0.001	0.1	PASS
39	2.80E-3	0.001	0.1	PASS
40	4.31E-3	0.002	0.1	PASS



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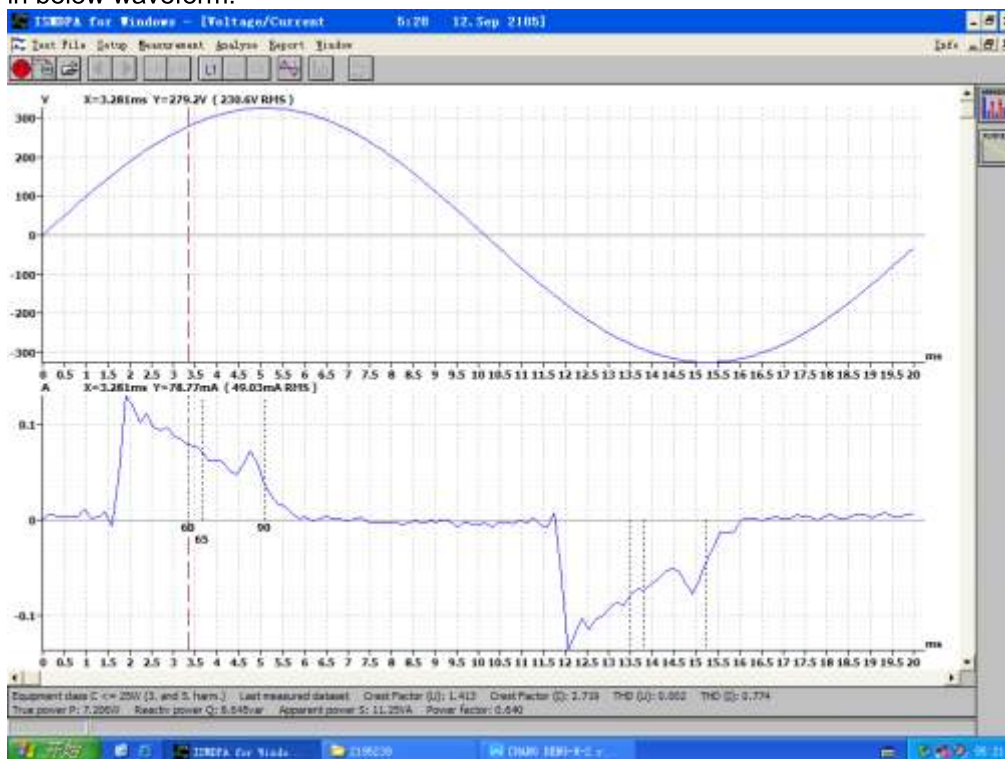
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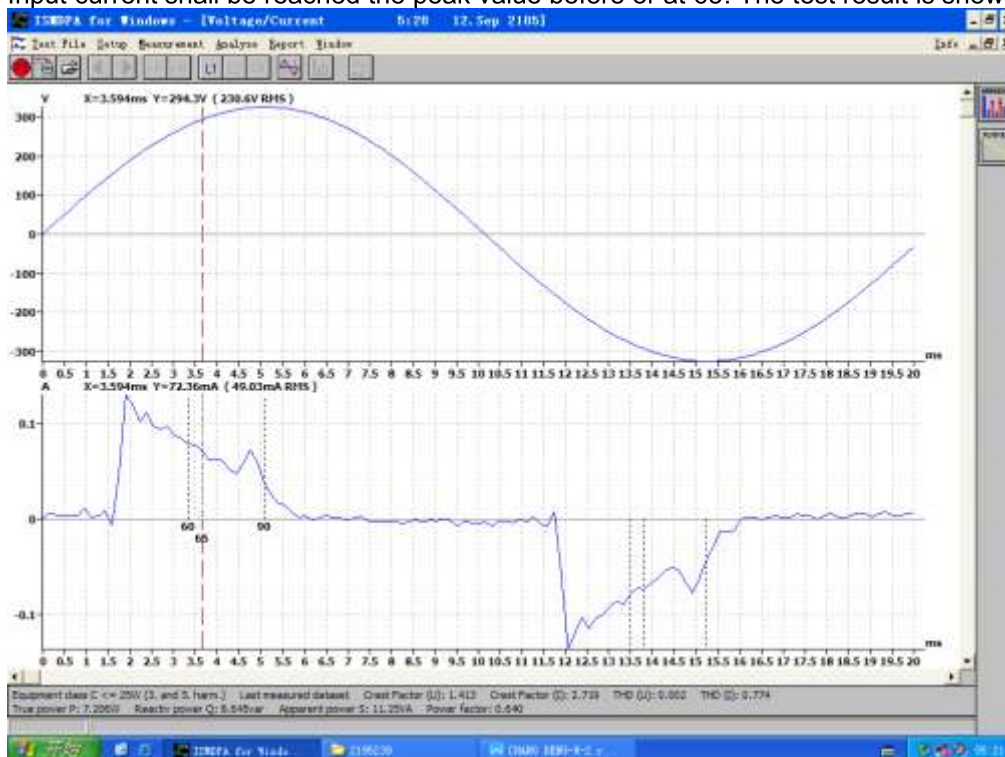
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Input current shall be such that it reaches the 5 % current threshold before or at 60°. The test result is shown in below waveform.



Input current shall be reached the peak value before or at 65°. The test result is shown in below waveform.



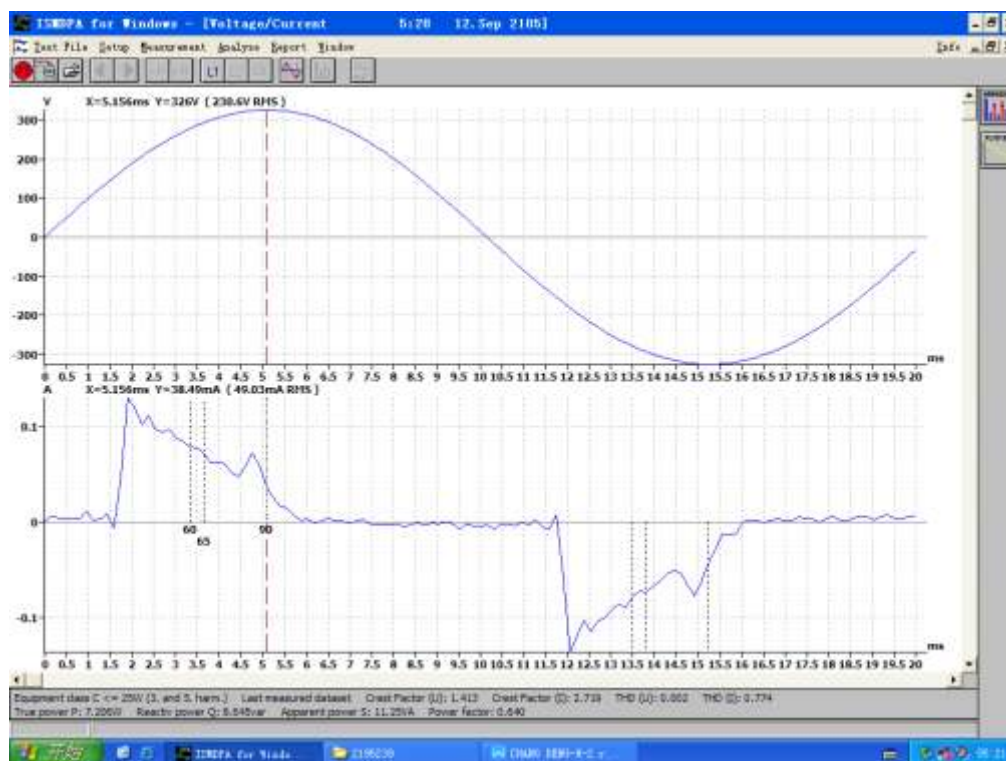
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Input current does not fall below the 5 % current threshold before 90°. The test result is shown in below waveform.



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6.5 Voltage Fluctuations and Flicker

Test Requirement: EN 61000-3-3:2013+A1:2019

Test Method: EN 61000-3-3:2013+A1:2019

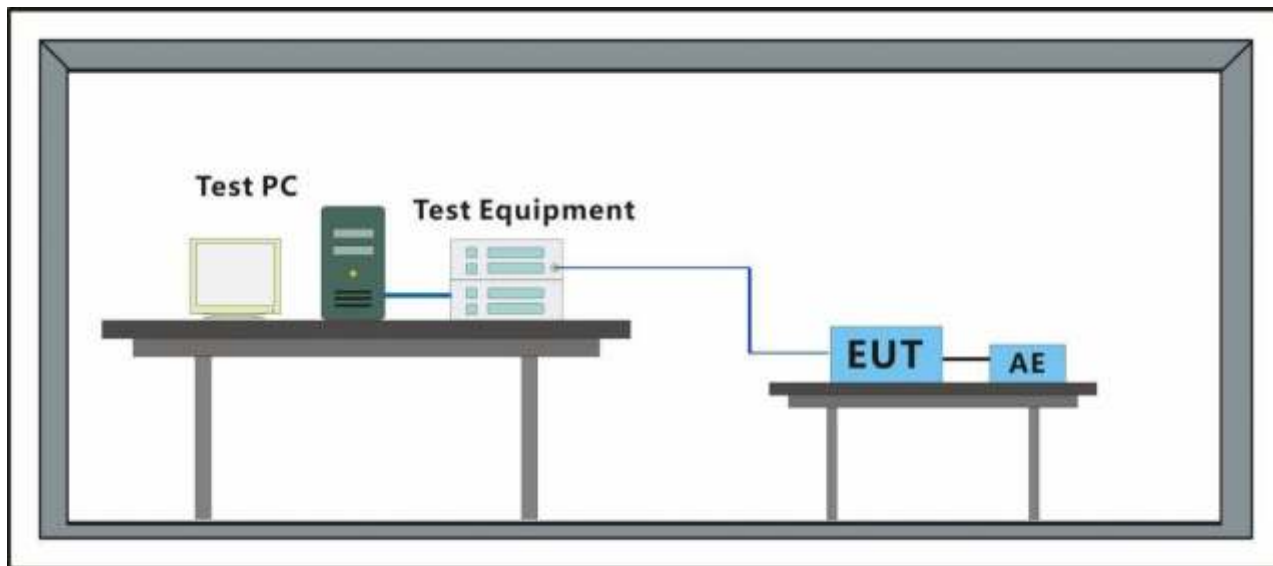
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode a: Lighting mode: Keep EUT lighting continuously.

6.5.2 Test Setup Diagram



6.5.3 Measurement Data

For model H-1085F50L60XTRSF

Mode a:

Maximum Flicker results

	EUT values	Limit	Result
Pst	0.033	1.00	PASS
dc [%]	0.052	3.30	PASS
dmax [%]	0.313	6.00	PASS
Tmax [s]	0.000	0.50	PASS



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For model H-1298L15T (980.837021)

Mode a:

Maximum Flicker results

	EUT values	Limit	Result
Pst	0.037	1.00	PASS
Plt	0.037	0.65	PASS
dc [%]	0.004	3.30	PASS
dmax [%]	0.342	4.00	PASS
Tmax [s]	0.000	0.50	PASS

For model H-2291L20T (FEENS2170EK)

Mode a:

Maximum Flicker results

	EUT values	Limit	Result
Pst	0.028	1.00	PASS
Plt	0.028	0.65	PASS
dc [%]	0.004	3.30	PASS
dmax [%]	0.169	4.00	PASS
T max [s]	0.000	0.50	PASS

For model H-1298L8T (980.835020)

Mode a:

Maximum Flicker results

	EUT values	Limit	Result
Pst	0.043	1.00	PASS
Plt	0.043	0.65	PASS
dc [%]	0.005	3.30	PASS
dmax [%]	0.314	4.00	PASS
Tmax [s]	0.001	0.50	PASS



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7 Immunity Test Results

7.1 Performance Criteria Description in EN 61547:2009

- Criterion A** During the test no change of the luminous intensity shall be observed and the regulating control, if any, shall operate during the test as intended.
- Criterion B** During the test the luminous intensity may change to any value. After the test the luminous intensity shall be restored to its initial value within 1 min.
- Regulating controls need not function during the test, but after the test the mode of the control shall be the same as before the test provided that during the test no mode changing commands were given.
- Criterion C** During and after the test any change of the luminous intensity is allowed and the lamp(s) may be extinguished. After the test, within 30 min, all functions shall return to normal if necessary by temporary interruption of the mains supply and/or operating the regulating control.



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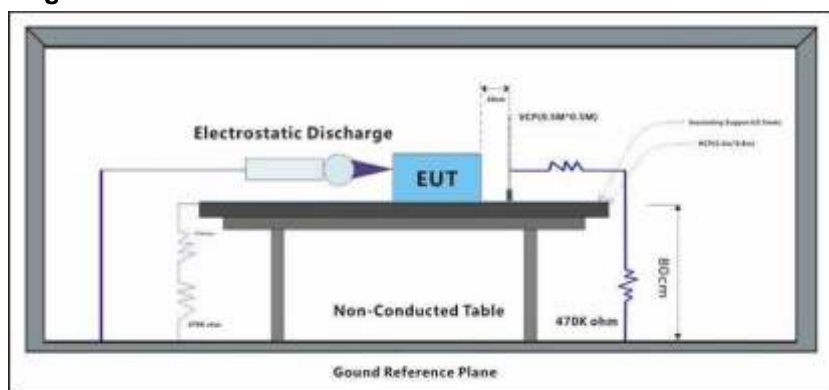
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7.2 Electrostatic Discharge

Test Requirement:	EN 61547:2009
Test Method:	EN 61000-4-2:2009
Performance Criterion:	B
Discharge Impedance:	330Ω/150pF
Number of Discharge:	Minimum 10 times at each test point
Discharge Mode:	Single Discharge
Discharge Period:	1 second minimum

7.2.1 Test Setup Diagram



7.2.2 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode: a: Lighting mode: Keep EUT lighting continuously.

7.2.3 Test Results:

Observations: Test Point:

1. All insulated enclosure and seams.
2. All accessible metal parts of the enclosure.
3. All side

Discharge type	Level (kV)	Polarity	Test Point	Result / Observations
Air Discharge	2,4,8	+	1	A
Air Discharge	2,4,8	-	1	A
Contact Discharge	4	+	2	A
Contact Discharge	4	-	2	A
Horizontal Coupling	4	+	3	A
Horizontal Coupling	4	-	3	A
Vertical Coupling	4	+	3	A
Vertical Coupling	4	-	3	A

Results:

A: No degradation in the performance of the EUT was observed.



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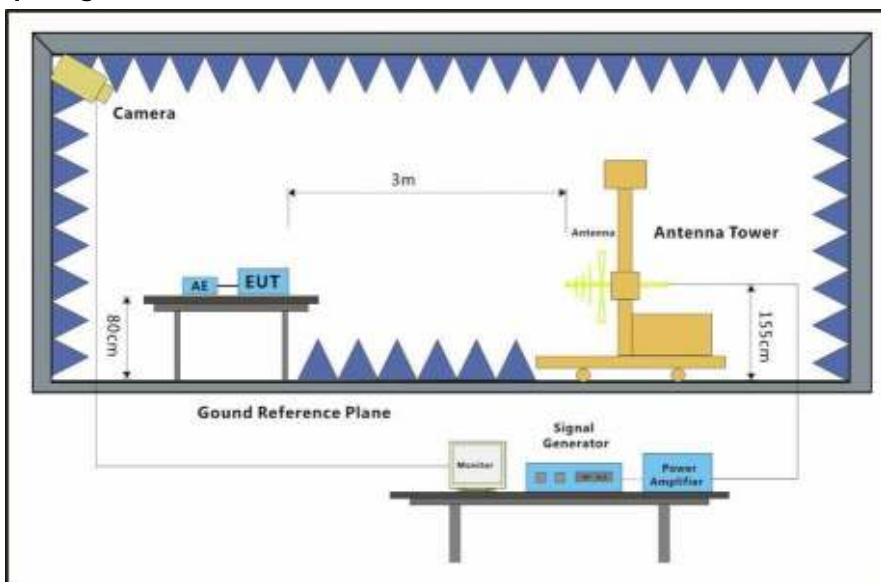
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7.3 Radiated Immunity (80MHz-1GHz)

Test Requirement: EN 61547:2009
 Test Method: EN 61000-4-3:2006 +A1:2008+A2:2010
 Performance Criterion: A
 Frequency Range: 80MHz to 1GHz
 Antenna Polarisation: Vertical and Horizontal
 Modulation: 1kHz,80% Amp. Mod,1% increment

7.3.1 Test Setup Diagram



7.3.2 E.U.T. Operation

Operating Environment:
 Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar
 Test mode: a: Lighting mode: Keep EUT lighting continuously.

7.3.3 Test Results:

Frequency	Level (V/m)	EUT Face	Dwell time	Result / Observations
80MHz-1GHz	3	Front	3s	A
80MHz-1GHz	3	Back	3s	A
80MHz-1GHz	3	Left	3s	A
80MHz-1GHz	3	Right	3s	A
80MHz-1GHz	3	Top	3s	A
80MHz-1GHz	3	Underside	3s	A

Results:

A: No degradation in the performance of the EUT was observed.



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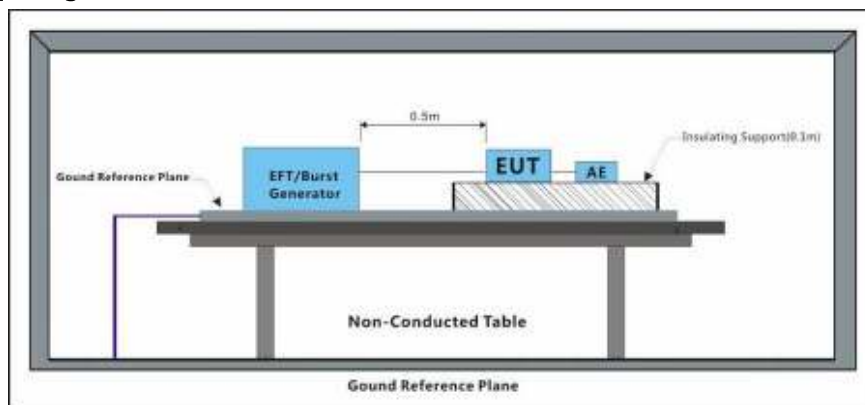
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7.4 Electrical Fast Transients/Burst at Power Port

Test Requirement: EN 61547:2009
 Test Method: EN 61000-4-4:2012
 Performance Criterion: B
 Repetition Frequency: 5kHz
 Burst Period: 300ms
 Test Duration: 2 minute per level & polarity

7.4.1 Test Setup Diagram



7.4.2 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode: a: Lighting mode: Keep EUT lighting continuously.

7.4.3 Test Results:

Test Line	Level (kV)	Polarity	CDN/Clamp	Result / Observations
AC power port	1	+	CDN	A
AC power port	1	-	CDN	A

Results:

A: No degradation in the performance of the EUT was observed.



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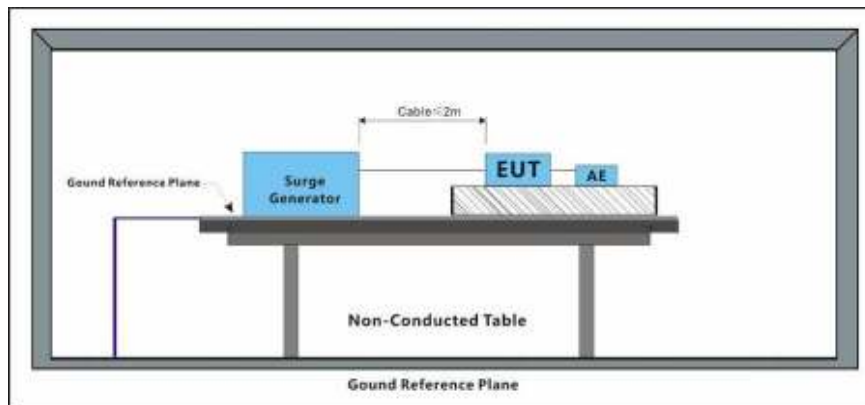
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7.5 Surge at Power Port

Test Requirement: EN 61547:2009
Test Method: EN 61000-4-5:2014 +A1:2017
Performance Criterion: C
No. of surges: 5 positive at 90°, 5 negative at 270°

7.5.1 Test Setup Diagram



7.5.2 E.U.T. Operation

Operating Environment:
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar
Test mode: a: Lighting mode: Keep EUT lighting continuously.

7.5.3 Test Results:

For model H-1298L15T (980.837021), H-2291L20T (FEENS2170EK), H-1298L8T (980.835020)

Test Line	Level (kV)	Polarity	Phase (deg)	Result / Observations
L-N	0.5	+	90°	A
L-N	0.5	-	270°	A

Results:

A: No degradation in the performance of the EUT was observed.

For model H-1085F50L60XTRSF

Test Line	Level (kV)	Polarity	Phase (deg)	Result / Observations
L-N	1	+	90°	A
L-N	1	-	270°	A

Results:

A: No degradation in the performance of the EUT was observed.



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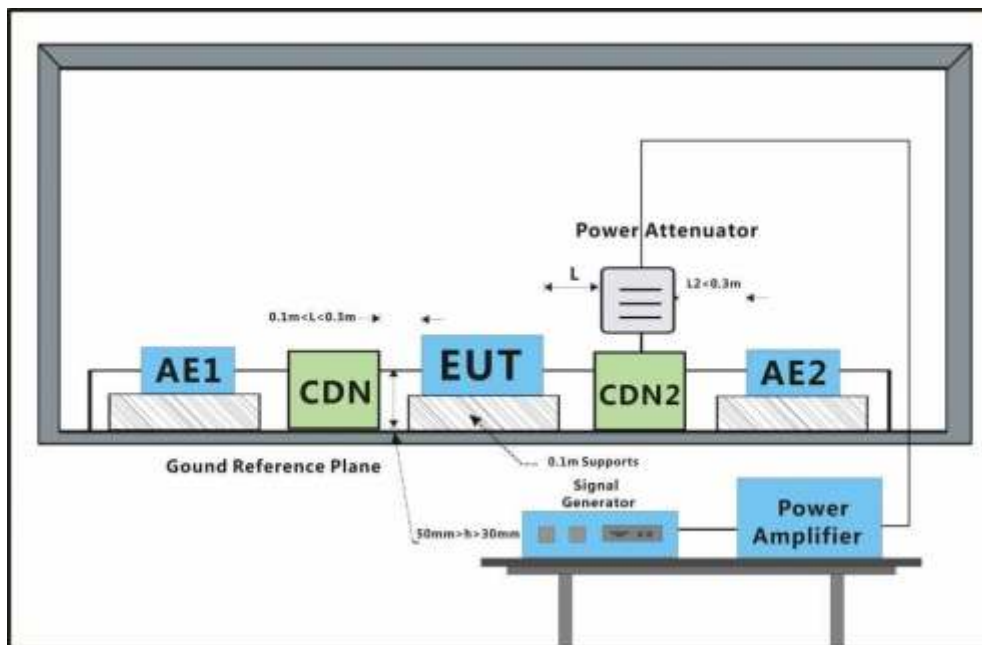
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7.6 Conducted Immunity at Power Port (150kHz-80MHz)

Test Requirement: EN 61547:2009
 Test Method: EN 61000-4-6:2014
 Performance Criterion: A
 Frequency Range: 0.15MHz to 80MHz
 Modulation: 80%, 1kHz Amplitude Modulation
 Step Size: 1%

7.6.1 Test Setup Diagram



7.6.2 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar
 Test mode: a: Lighting mode: Keep EUT lighting continuously.

7.6.3 Test Results:

Cable port	Level (Vrms)	CDN/Clamp	Dwell time	Result / Observations
AC power port	3	CDN	3s	A

Results:

A: No degradation in the performance of the EUT was observed.



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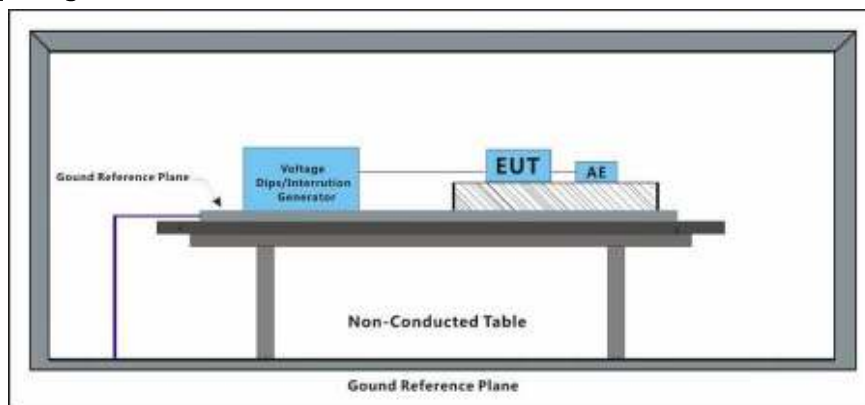
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7.7 Voltage Dips and Interruptions

Test Requirement: EN 61547:2009
Test Method: EN 61000-4-11:2004 +A1:2017
Performance Criterion: 0% of UT (Supply Voltage) for 0.5 Periods:B;
70 % of UT for 10 Periods:C
No. of Dips / Interruptions: 3 per Level
Time between dropout 10s

7.7.1 Test Setup Diagram



7.7.2 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode: a: Lighting mode: Keep EUT lighting continuously.

7.7.3 Test Results:

Level % UT	Phase (deg)	Duration	No. of Dips / Interruptions	Result / Observations
0	0°	0.5 Cycles	3	A
0	180°	0.5 Cycles	3	A
70	0°	10 Cycles	3	A
70	180°	10 Cycles	3	A

Results:

A: No degradation in the performance of the EUT was observed.



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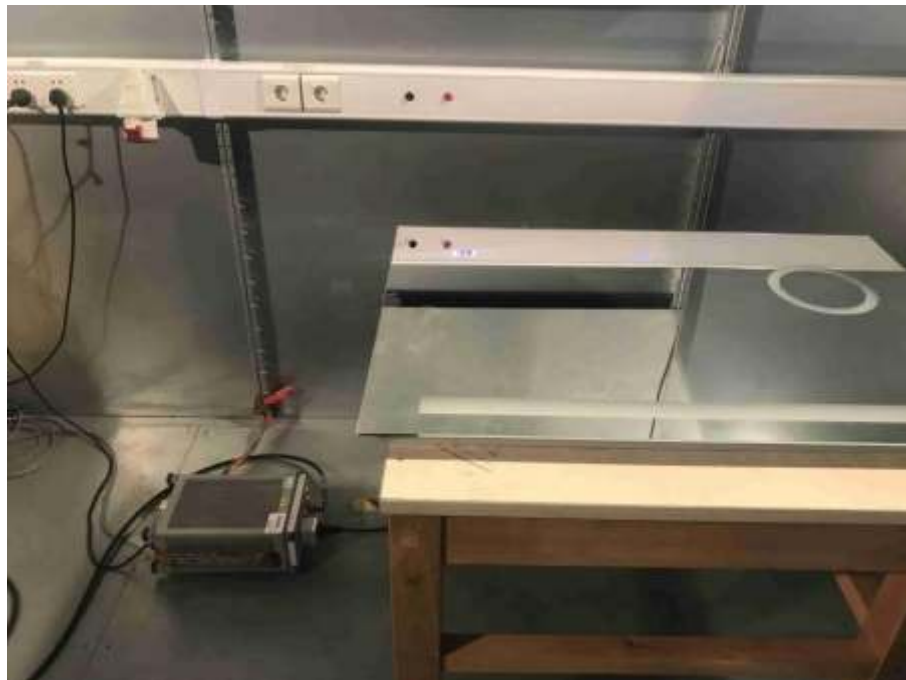
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8 Photographs

8.1 Conducted Emissions at Mains Terminals (9kHz-30MHz) Test Setup

For model H-1085F50L60XTRSF



For model H-1298L15T (980.837021)



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For model H-2291L20T (FEENS2170EK)



For model H-1298L8T (980.835020)



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8.2 Radiated Emissions (30MHz-1000MHz) Test Setup

For model H-1085F50L60XTRSF



For model H-1298L15T (980.837021)



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For model H-2291L20T (FEENS2170EK)



For model H-1298L8T (980.835020)



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8.3 Radiated Emissions (Magnetic field Induced Current)(9kHz-30MHz) Test Setup

For model H-1085F50L60XTRSF



For model H-1298L15T (980.837021)



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For model H-2291L20T (FEENS2170EK)



For model H-1298L8T (980.835020)



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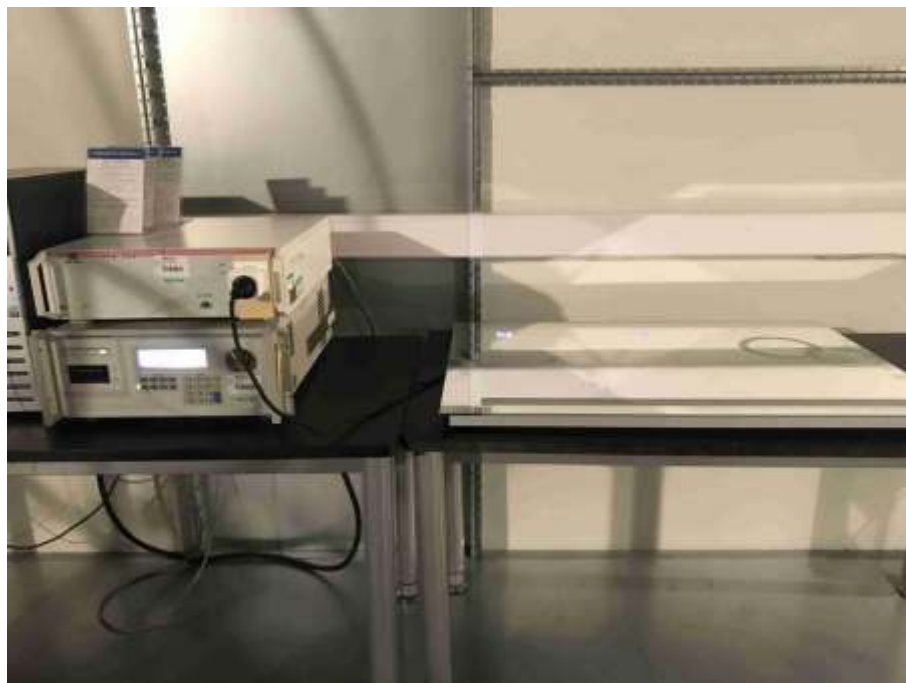
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8.4 Harmonic Current Emission & Voltage Fluctuations and Flicker Test Setup

For model H-1085F50L60XTRSF



For model H-1298L15T (980.837021)



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For model H-2291L20T (FEENS2170EK)



For model H-1298L8T (980.835020)



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8.5 Electrostatic Discharge Test Setup

For model H-1085F50L60XTRSF



For model H-1298L15T (980.837021)



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For model H-2291L20T (FEENS2170EK)



For model H-1298L8T (980.835020)



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8.6 Radiated Immunity (80MHz-1GHz) Test Setup

For model H-1085F50L60XTRSF



For model H-1298L15T (980.837021)



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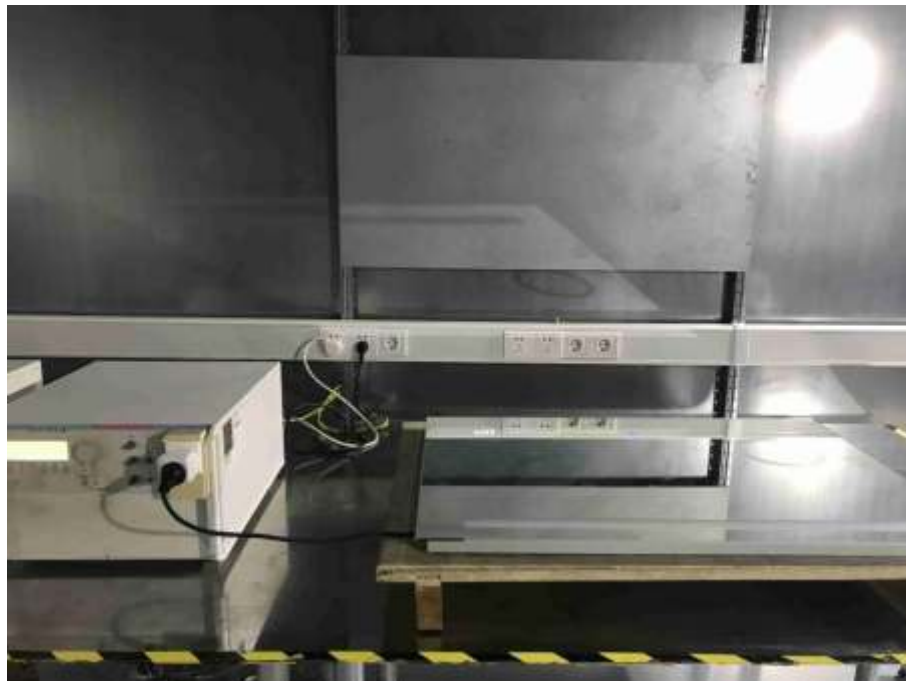
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8.7 Electrical Fast Transients/Burst at Power Port Test Setup

For model H-1085F50L60XTRSF



For model H-1298L15T (980.837021)



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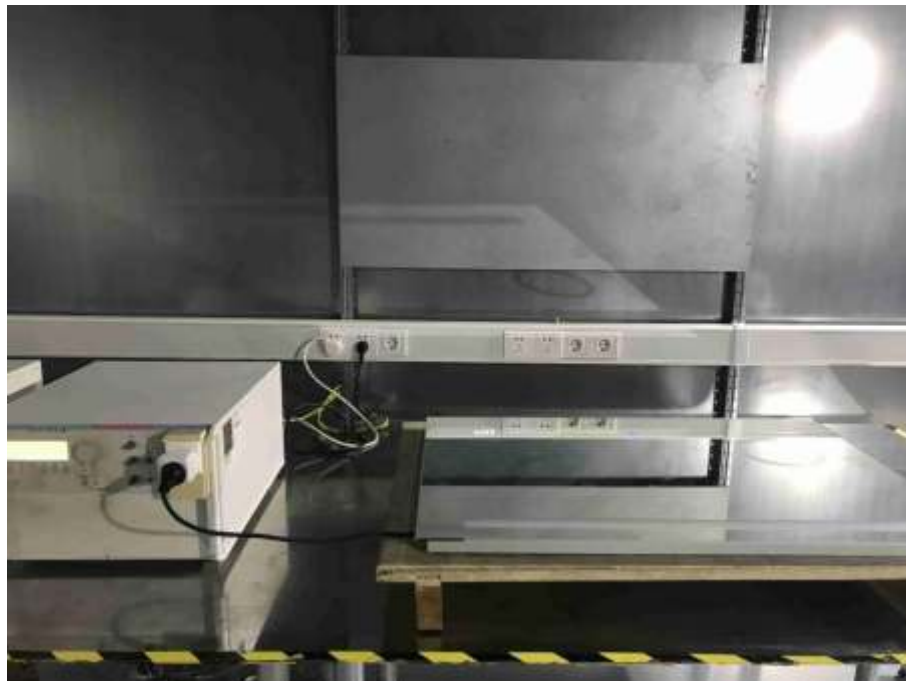
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8.8 Surge at Power Port Test Setup

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For model H-1298L15T (980.837021)



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For model H-2291L20T (FEENS2170EK)



For model H-1298L8T (980.835020)



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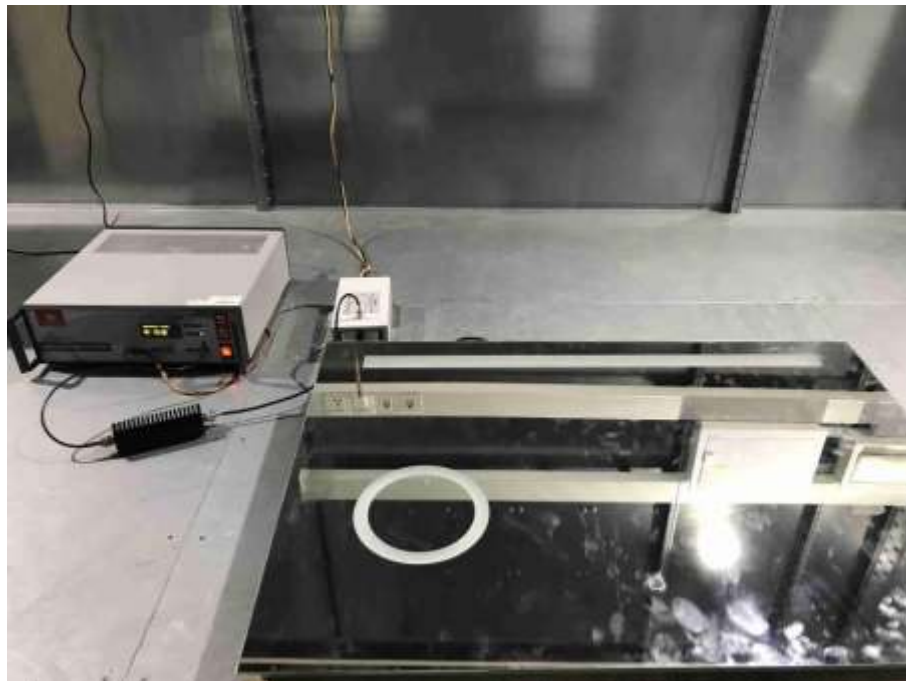
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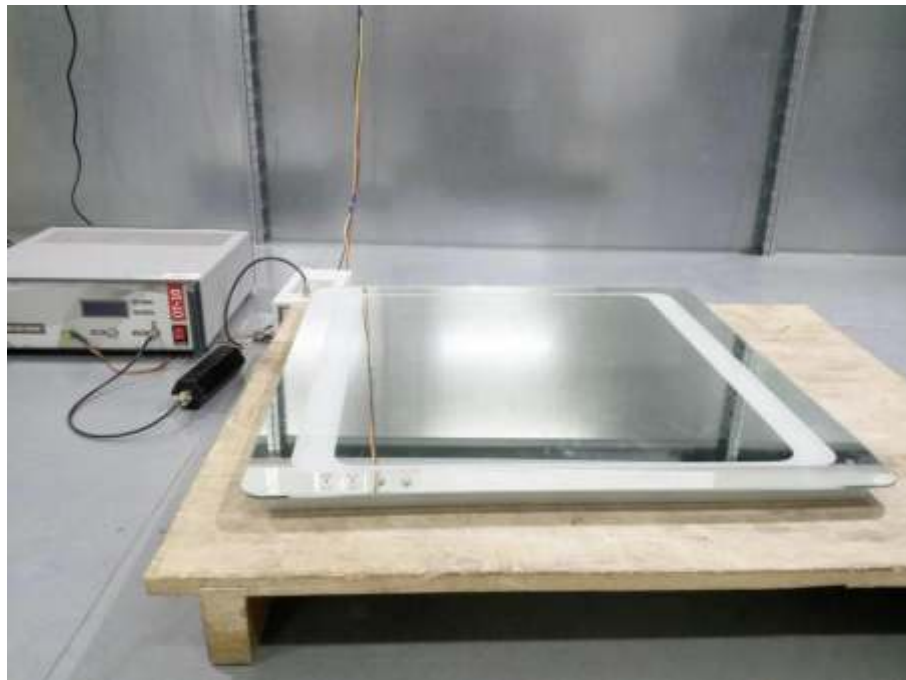
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8.9 Conducted Immunity at Power Port (150kHz-80MHz) Test Setup

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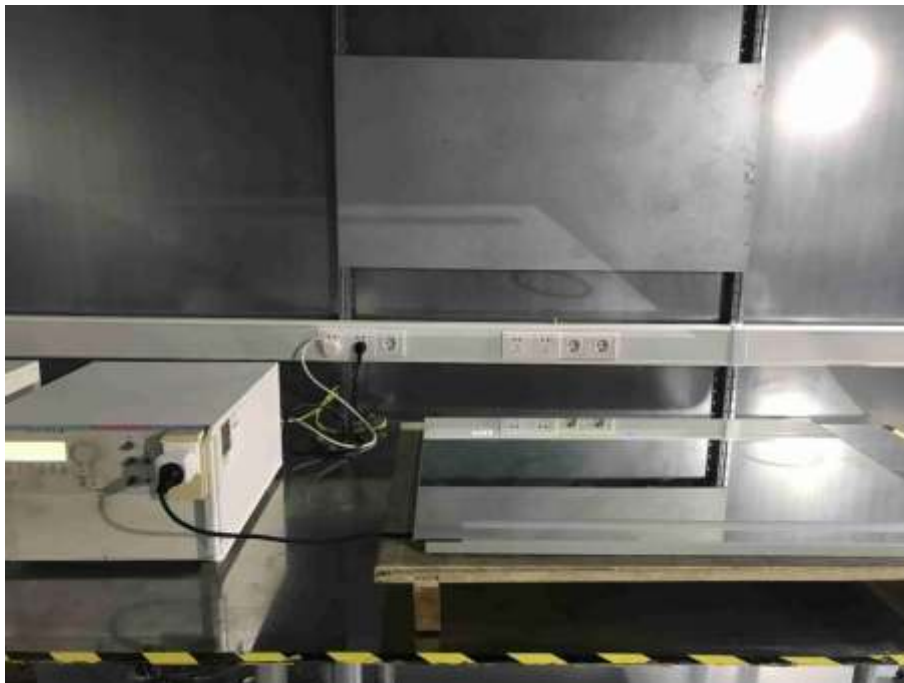
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8.10 Voltage Dips and Interruptions Test Setup

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For model H-1298L15T (980.837021)



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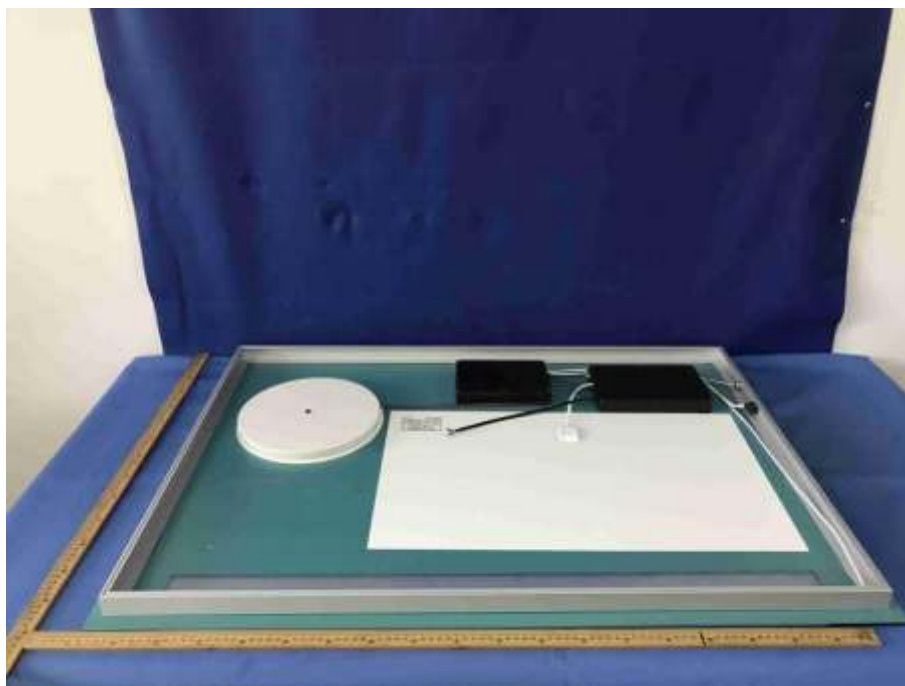
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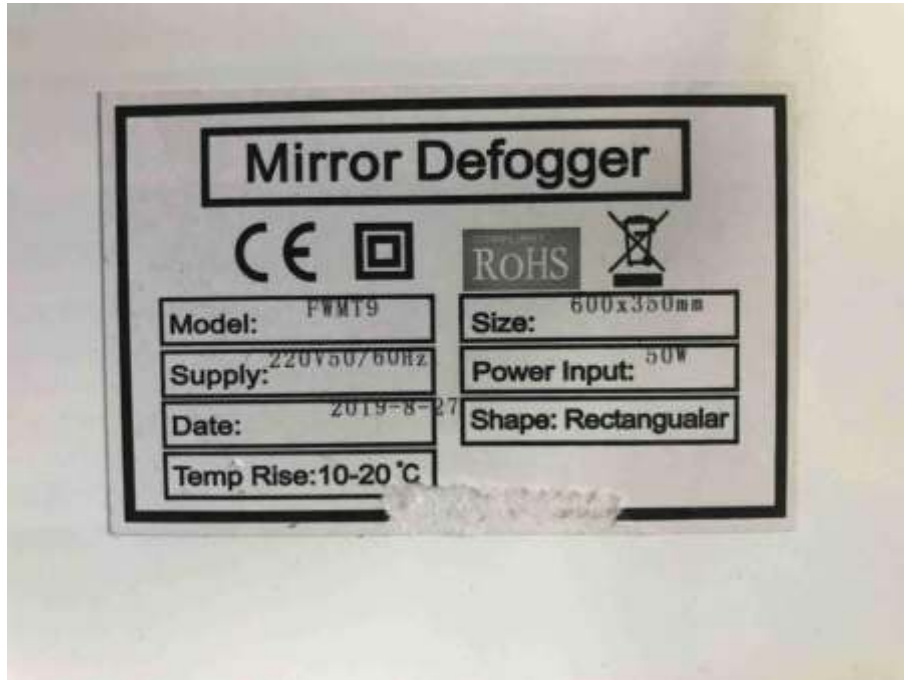
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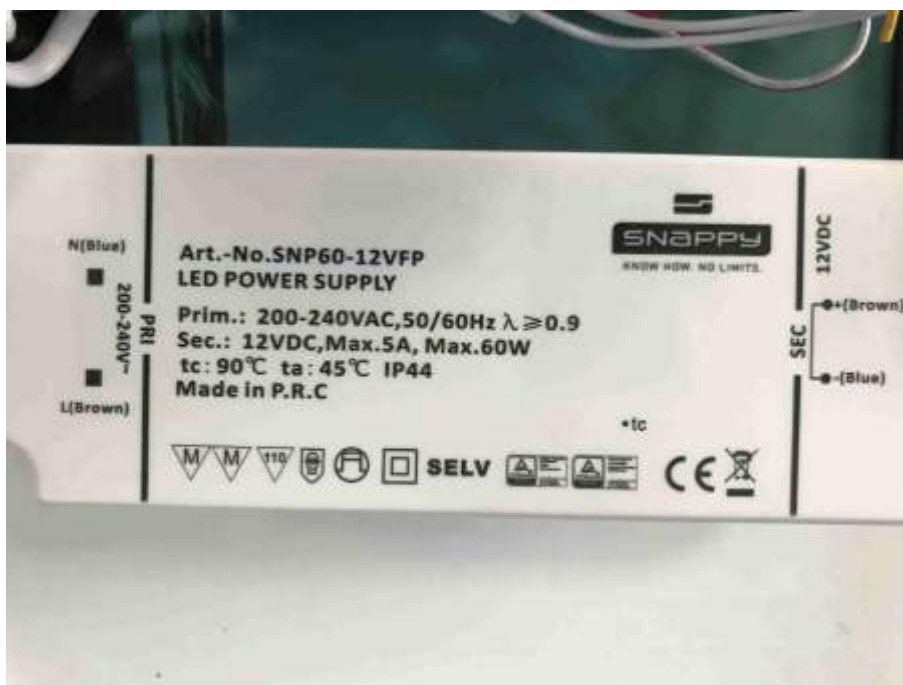


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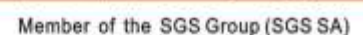
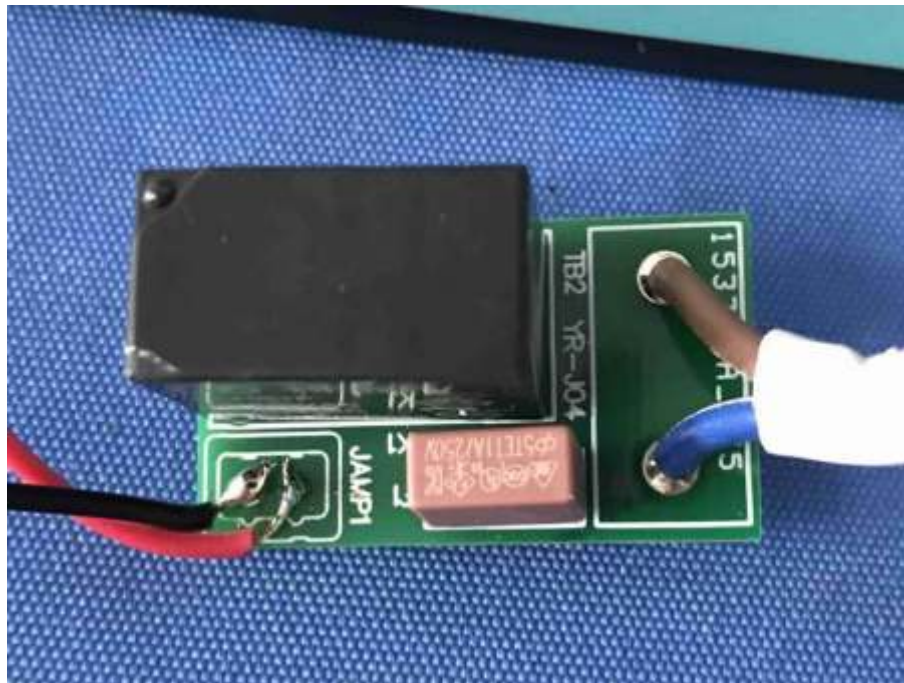
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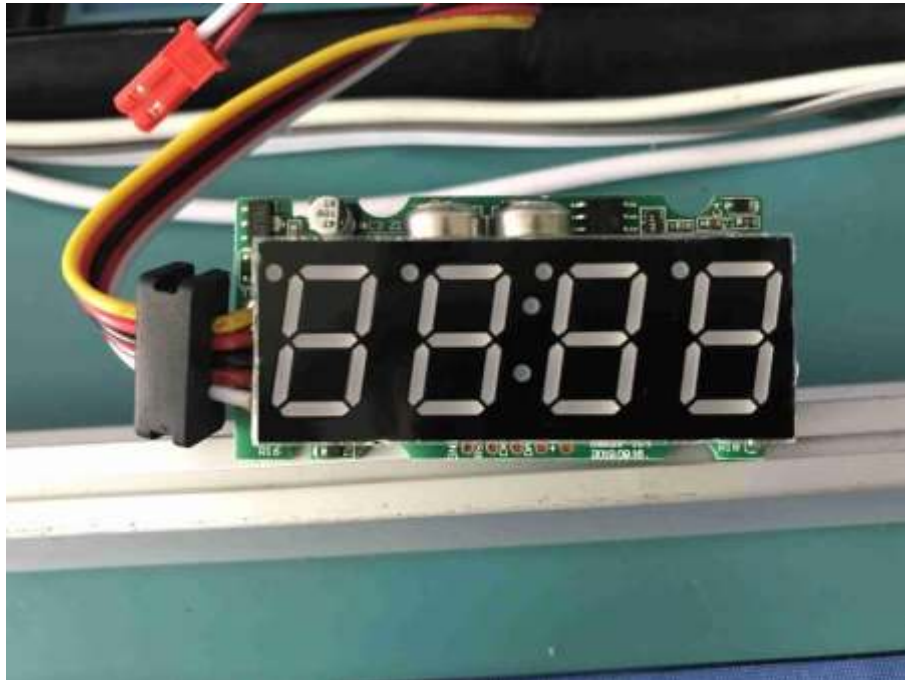


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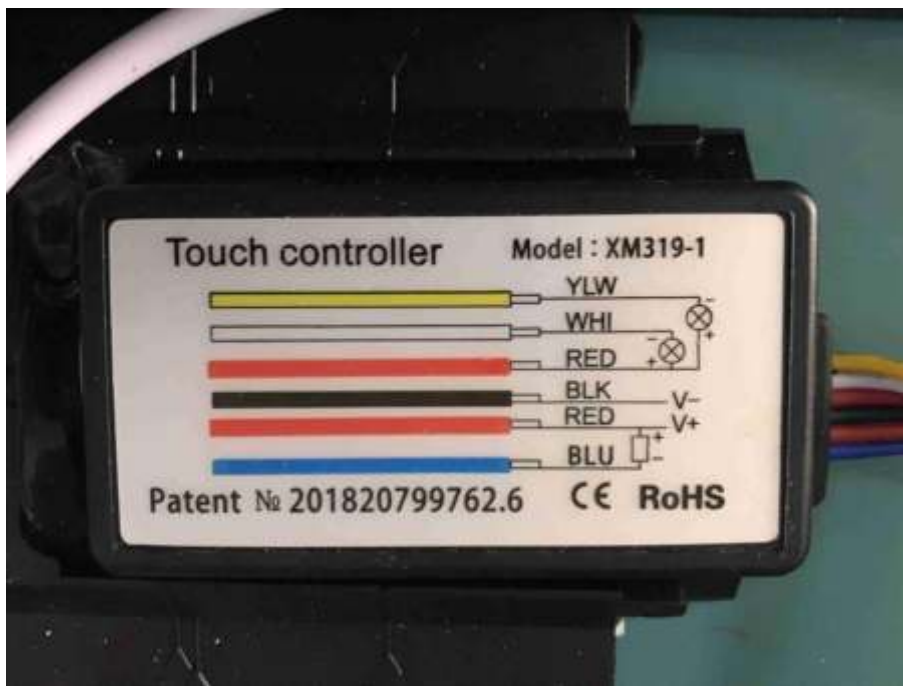
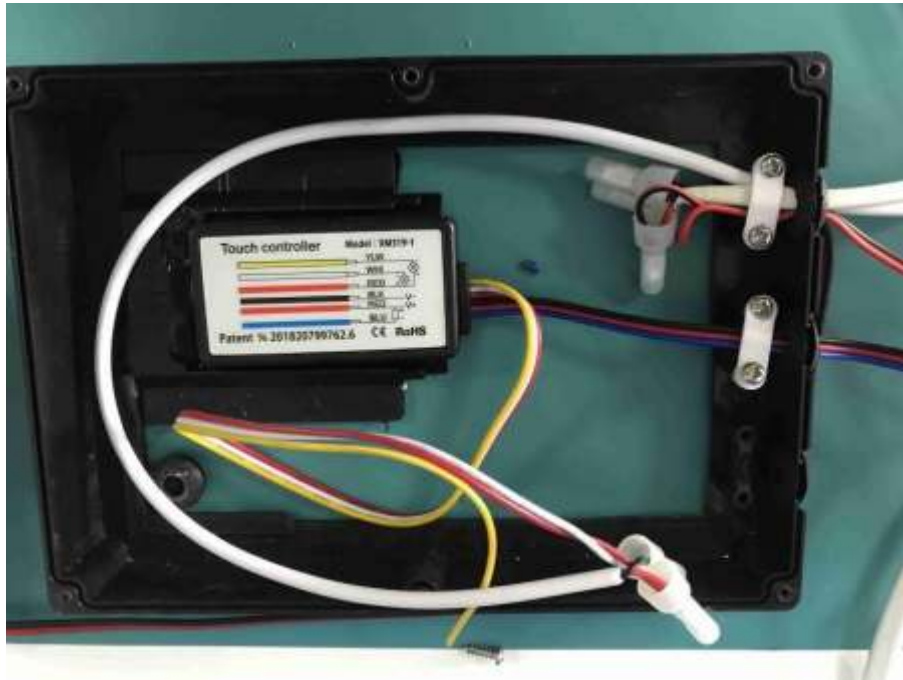


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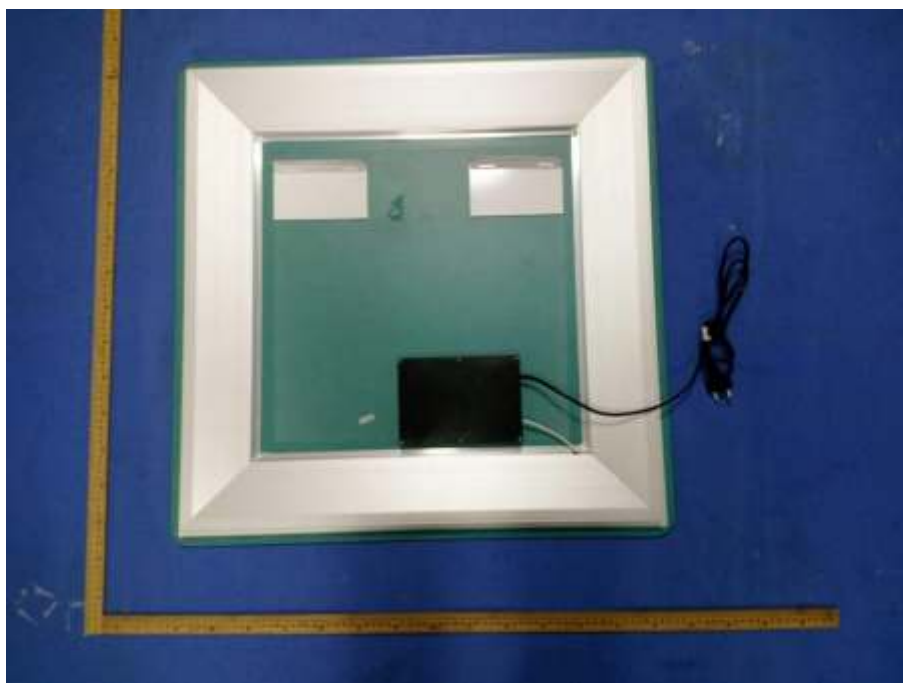
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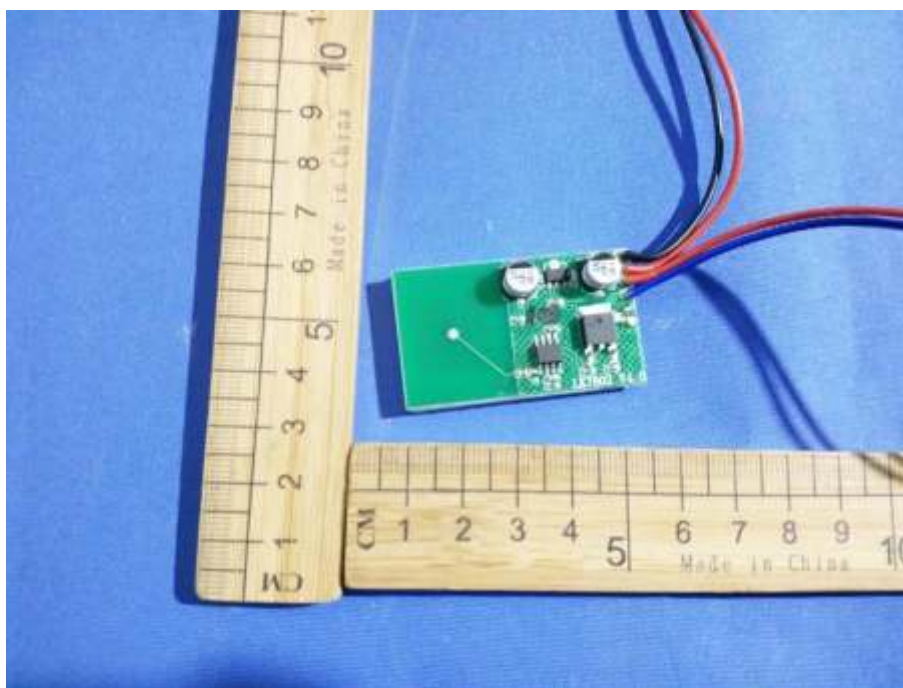
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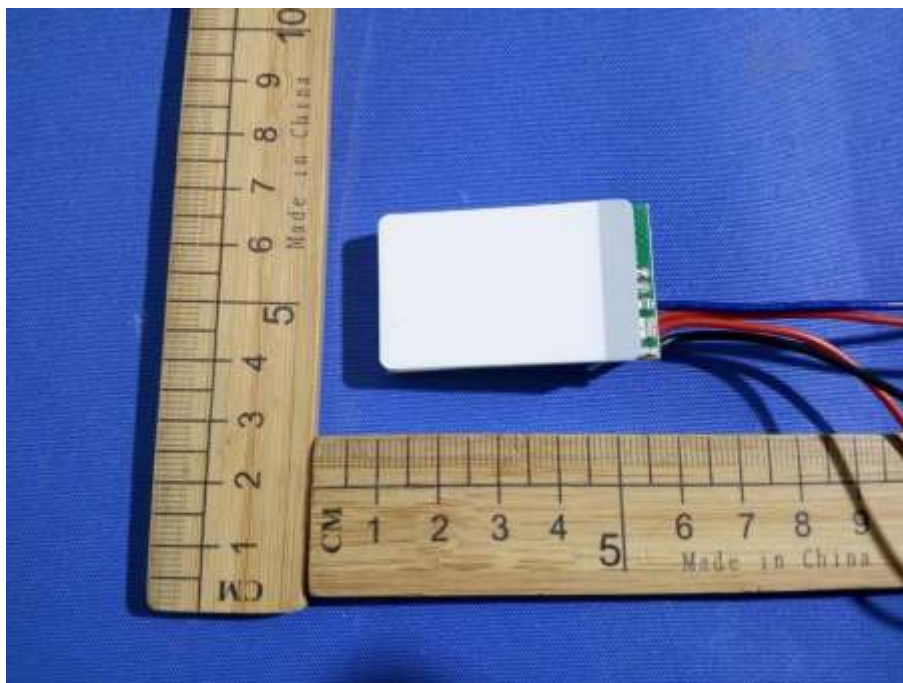
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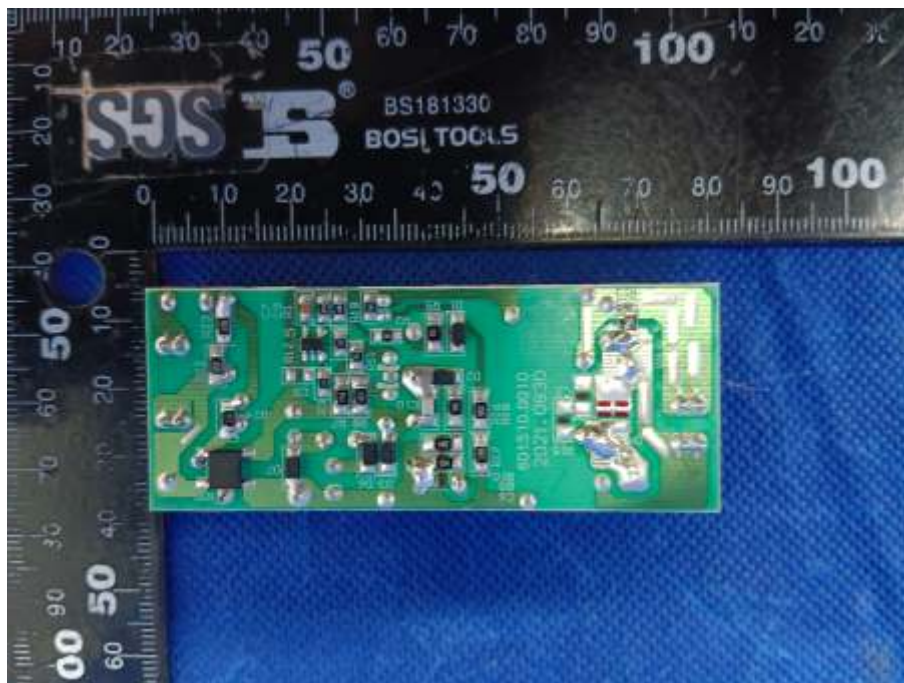
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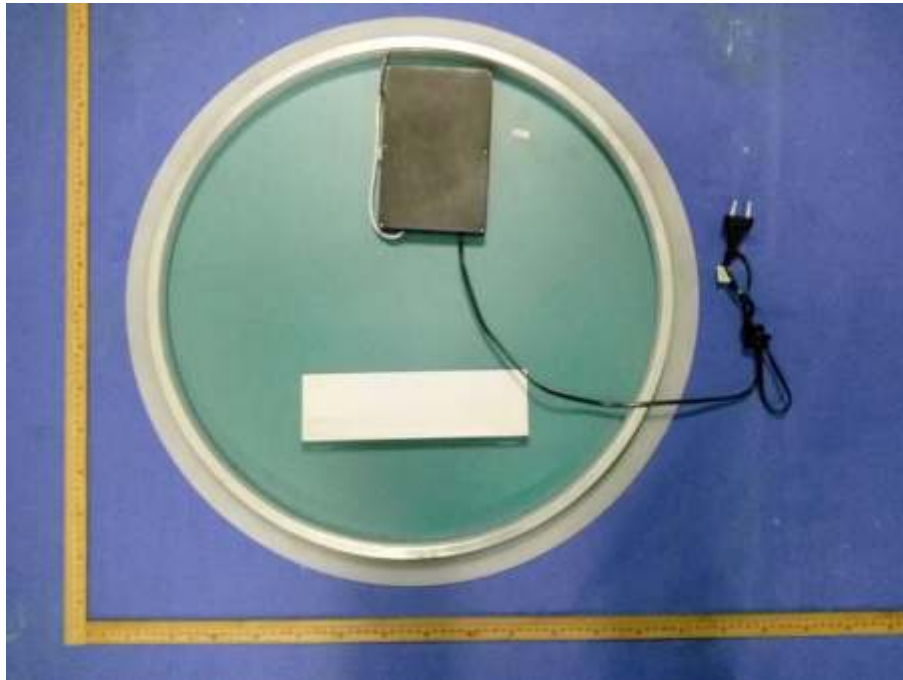
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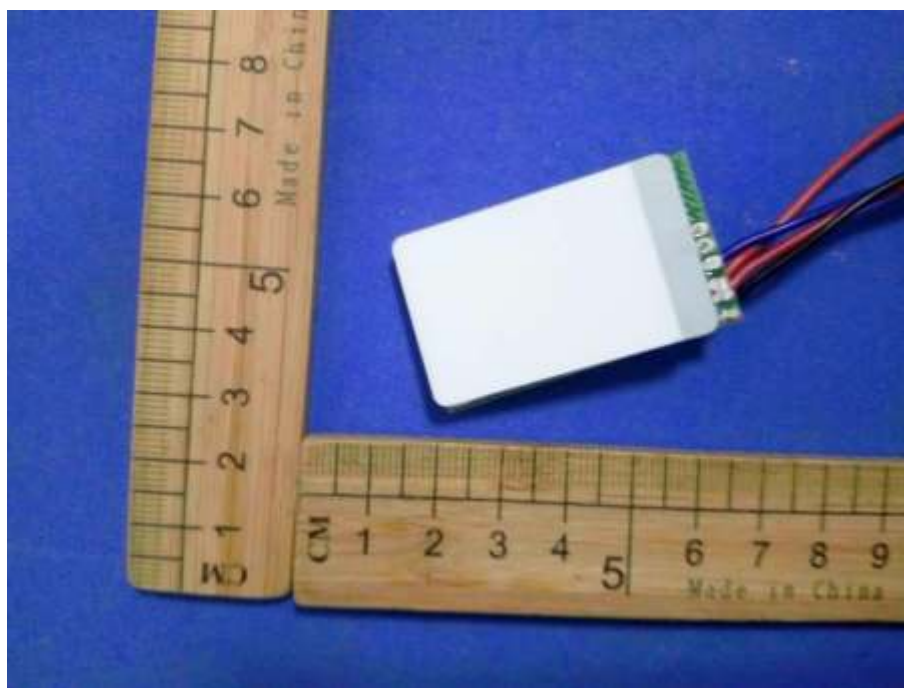
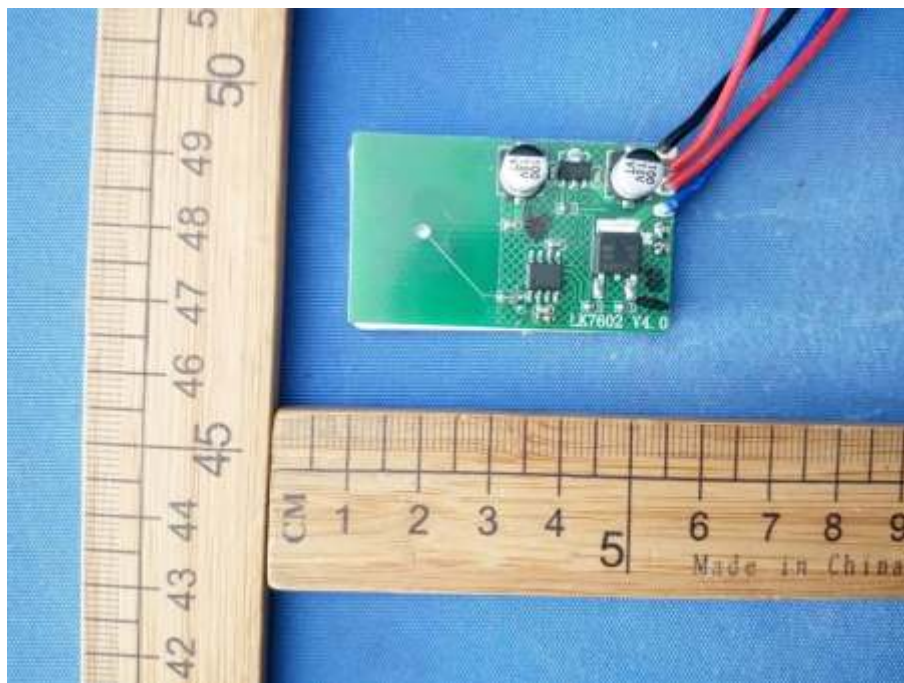


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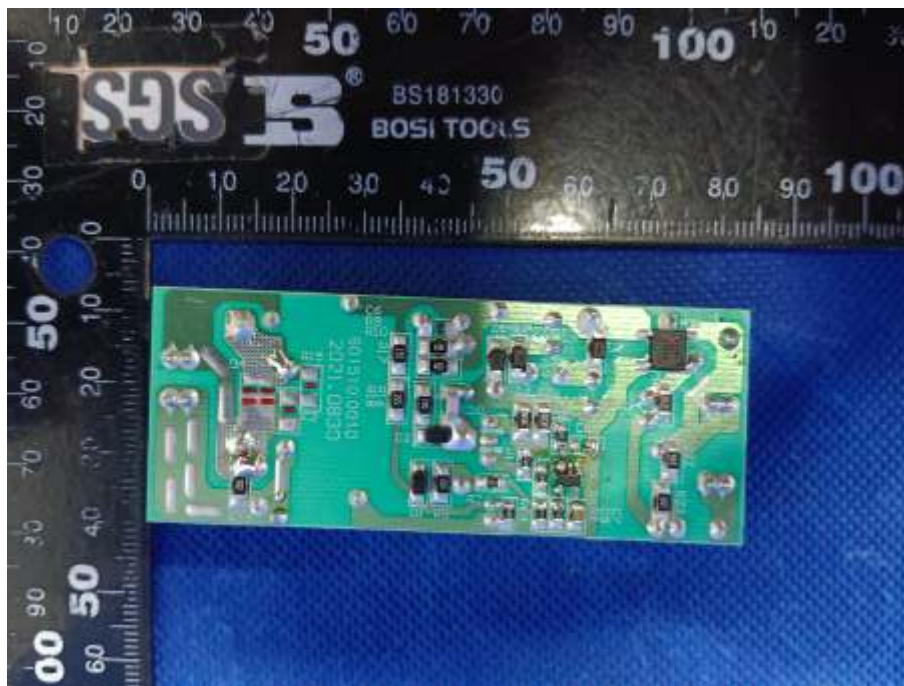
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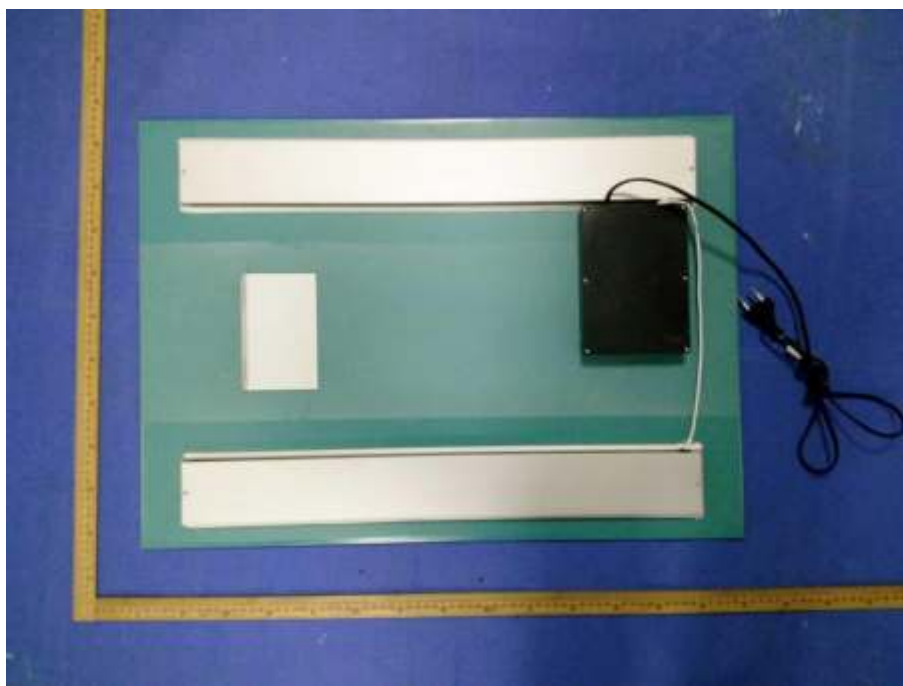
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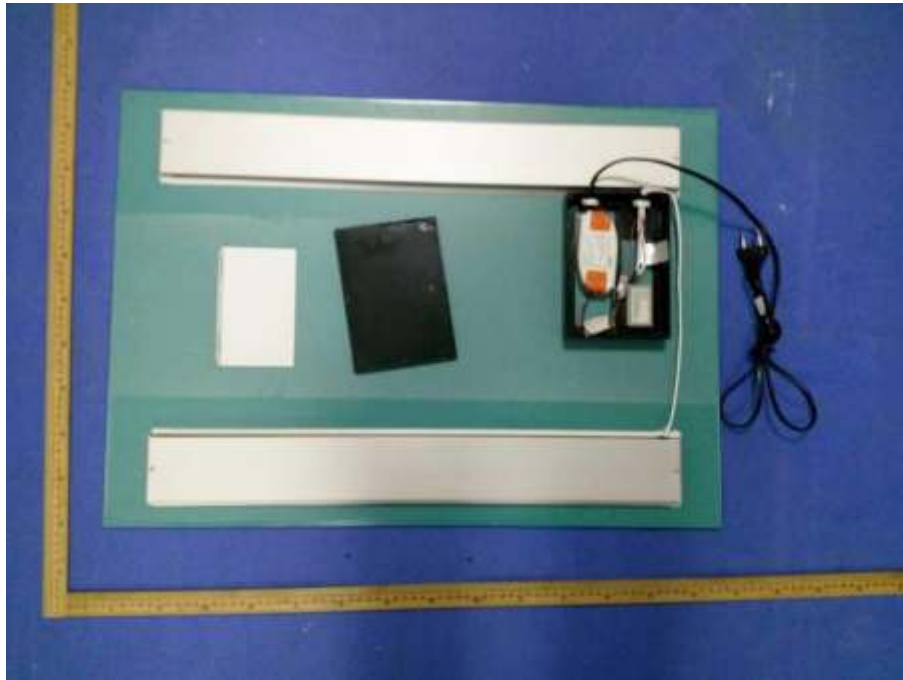
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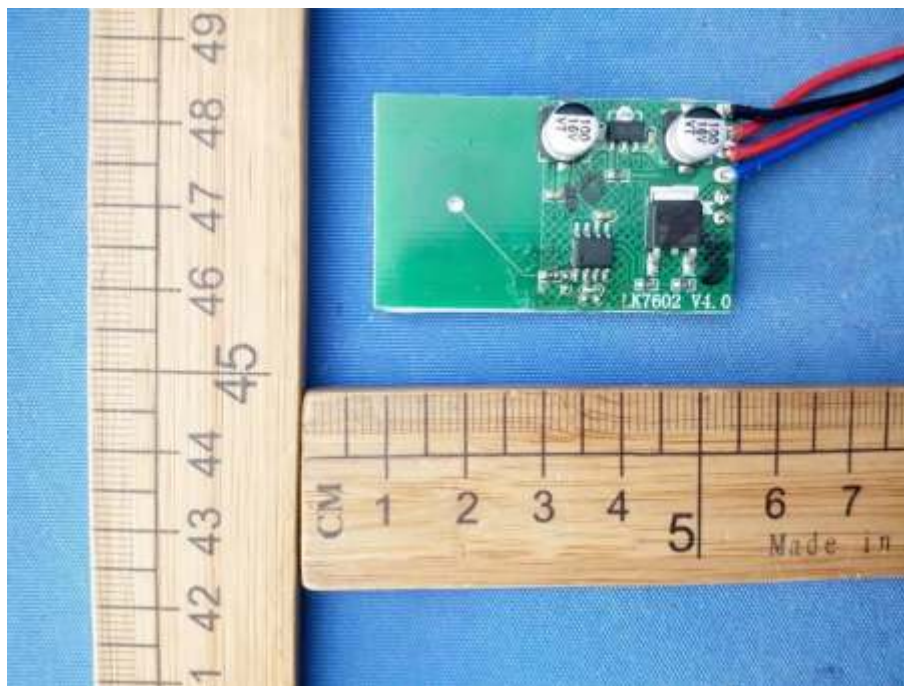
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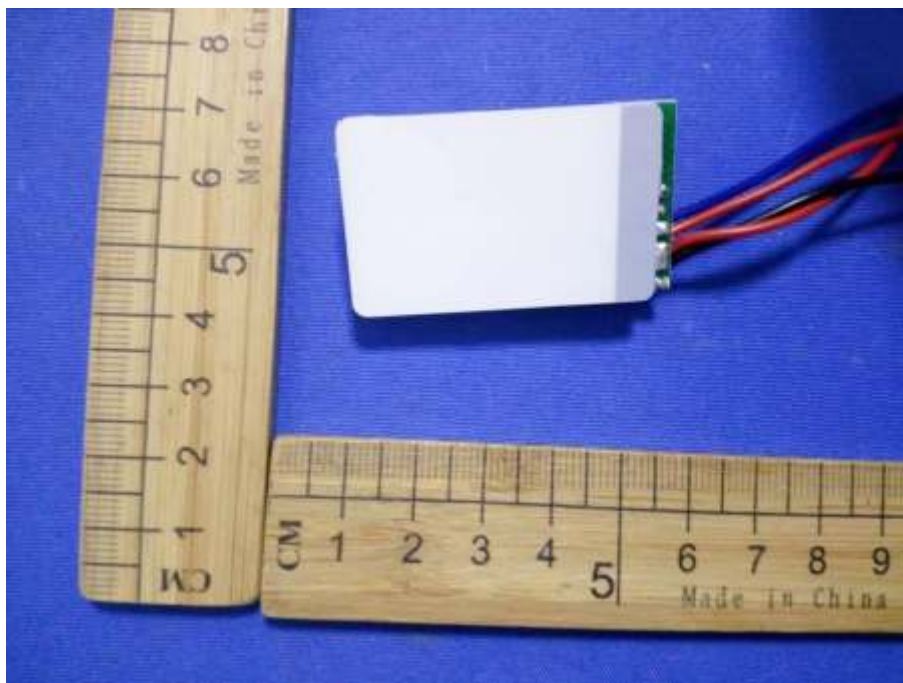
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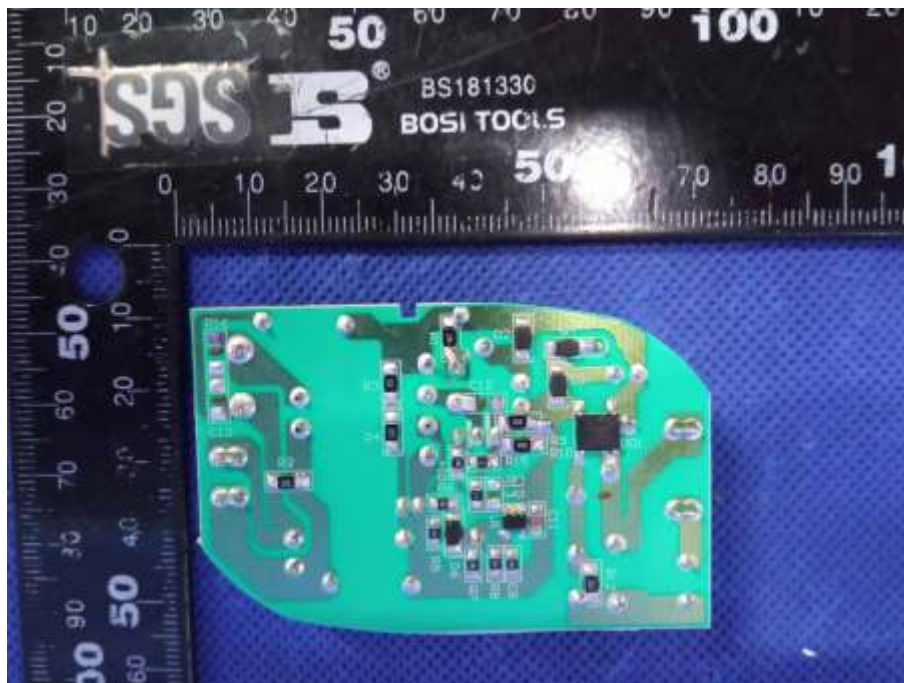


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