

Ecovacs Home Service Robotics Co., Ltd.

EMC TEST REPORT

Report Type:

FCC Part 15B & ICES-003 EMC report

Model: DLX23

REPORT NUMBER: 2308A0609SHA-001

ISSUE DATE: September 10, 2023

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intertek Total Quality. Assured. Intertek Testing Services Shanghai Building No.86, 1198 Qinzhou Road (North) Caohejing Development Zone Shanghai 200233, China

> Telephone: 86 21 6127 8200 www.intertek.com

Report no.: 2308A0609SHA-001

Applicant:	Ecovacs Home Service Robotics Co., Ltd. No.518 Songwei Road,Wusongjiang industry Park, Guoxiang Street, Wuzhong District, Suzhou, Jiangsu, China.
Manufacturer:	Same as applicant
Factory 1:	Ecovacs Robotics Co., Ltd. No.518 Songwei Road, Wusongjiang industry Park, Guoxiang Street, Wuzhong District, Suzhou, Jiangsu, China
Factory 2:	Same as applicant
FCC ID:	2A64B-DLX23

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

47CFR Part 15 (2021): Radio Frequency Devices (Subpart B)

ANSI C63.4 (2014): American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

ICES-003 Issue 7 October 2020: Information Technology Equipment (Including Digital Apparatus) —Limits and Methods of Measurement.

PREPARED BY:

REVIEWED BY:

Frie. li

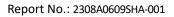
Project Engineer Eric Li

Reviewer Teddy Yin



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Revision History

Report No.	Version	Description	Issued Date
230200388SHA-004	Rev. 01	Initial issue of report	February 20, 2023
2308A06095HA-001	Rev. 01	This report is based on the original report 230200388SHA-004 for amendment included the follow changes or/and additions: 1, added another model of charger station CH2232B, the new charger station removed the Hot Water Washing mop function, so we tested the conduct emission and radio emission of low frequency (30MHz-1GHz) and listed the worst results in this report.	September 10, 2023



Measurement result summary

TEST ITEM	FCC REFERENCE	IC REFERENCE	RESULT
Power line conducted emission	15.107	3.2.1	Pass
Radiated emission	15.109	3.2.2	Pass

Notes: 1: NA =Not Applicable

2: "*" means this test is no need and not performed within this report, and the result can refer to the related base report(s). Total Quality. Assured. TEST REPORT

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Floor Cleaning Robot
Type/Model:	DLX23
Description of EUT:	The EUT is a Floor Cleaning Robot, it supports WIFI functions, there is only one model. we test them and list the worst results in this report.
Rating:	20V DC 2.0A
Category of EUT:	Class B
EUT type:	Table top 🛛 Floor standing
Highest operating frequency	> 108MHz
Software Version:	/
Hardware Version:	/
Sample Identification No.:	0230822-07-001
Sample received date:	2023.08.22
Date of test:	2023.02.22-2023.08.26



1.2 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized,	CNAS Accreditation Lab Registration No. CNAS L0139
certified, or accredited by these organizations:	FCC Accredited Lab Designation Number: CN0175
organizations.	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Standards or specification

47CFR Part 15 (2021) ANSI C63.4 (2014) ICES-003 Issue 7 October 2020

2.2 Mode of operation during the test

Within this test report, EUT was tested under all available operation modes and tested under its rating voltage and frequency. Other voltage and frequency are specified if used.

2.3 Test software list

Test Items	Software	Manufacturer	Version
Conducted emission	ESxS-K1	R&S	V2.1.0
Radiated emission	ES-K1	R&S	V1.71

2.4 Test peripherals list

Item No.	Name	Brand and Model	Description
1	Docking Station	ودەسمد ، CH2322B	-



2.5 Test environment condition:

Test items	Temperature	Humidity
Power line conducted emission	24°C	54% RH
Radiated Emissions	25°C	53% RH

2.6 Instrument list

Conducted Emission								
Used	Equipment	Manufacturer	Туре	Internal no.	Due date			
\square	Test Receiver	R&S	ESCS 30	EC 2107	2024-07-09			
\square	A.M.N.	R&S	ESH2-Z5	EC 3119	2023-11-09			
	A.M.N.	R&S	ENV 216	EC 3393	2024-07-09			
	A.M.N.	R&S	ENV4200	EC 3558	2024-06-09			
Radiated Er	mission							
Used	Equipment	Manufacturer	Туре	Internal no.	Due date			
\square	Test Receiver	R&S	ESIB 26	EC 3045	2023-10-19			
\square	Bilog Antenna	TESEQ	CBL 6112D	EC 4206	2024-08-06			
	Pre-amplifier	R&S	AFS42- 00101800-25- S-42	EC5262	2024-06-11			
\square	Horn antenna	ETS	3117	EC 4792-1	2024-03-27			
\square	Horn antenna	ΤΟΥΟ	HAP18-26W	EC 4792-3	2024-07-08			
	Active loop antenna	Schwarzbeck	FMZB1519	EC 5345	2024-04-24			
Tet Site								
Used	Equipment	Manufacturer	Туре	Internal no.	Due date			
\square	Shielded room	Zhongyu	-	EC 2838	2024-01-24			
	Shielded room	Zhongyu	-	EC 2839	2024-01-24			
\square	Semi-anechoic chamber	Albatross project	-	EC 3048	2024-08-22			
\boxtimes	Fully-anechoic chamber	Albatross project	-	EC 3047	2024-08-22			
Additional	Additional instrument							
Used	Equipment	Manufacturer	Туре	Internal no.	Due date			
	Therom- Hygrograph	ZJ1-2A	S.M.I.F.	EC 3783	2024-03-24			
	Therom-	ZJ1-2A	S.M.I.F.	EC 5844	2024-03-09			



Hygrograph				
Therom- Hygrograph	ZJ1-2A	S.M.I.F.	EC 3442	2024-01-04
Therom- Hygrograph	ZJ1-2A	S.M.I.F.	EC 5198	2024-03-09
Pressure meter	YM3	Shanghai Mengde	EC 3320	2024-07-22



2.7 Measurement uncertainty

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

Test item	Measurement uncertainty
Radiated Emissions in restricted frequency bands below 1GHz	\pm 4.90dB
Radiated Emissions in restricted frequency bands above 1GHz	\pm 5.02dB
Power line conducted emission	\pm 3.19dB

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Radiated Emissions 3

Test result: Pass

3.1 Limit

3.1.1 Limits for radiated disturbance of class A device

FCC

Frequency (MHz)	Permitted limit in dBµV/m (Quasi-peak) of Measurement Distance 10m			
30 – 88	39			
88 - 216	43.5			
216 – 960	46.4			
Above 960	49.5			
Note: for the measurement distance other than 3m and 10m, the limit is varied according to				

ote: for the measurement distance other than 3m and 10m, the limit is varied according to 20dB/10 decades.

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I	L	

Frequency (MHz)	cy (MHz) Permitted limit in dBµV/m Permitted limit in (Quasi-peak) (Quasi-peak) (Quasi-pe of Measurement Distance 10m of Measurement D			
30 ~ 88	40.0	50.0		
88 ~ 216	43.5	54.0		
216 ~ 230	46.4	56.9		
230 ~ 960	47.0	57.0		
960 ~ 1000	49.5	49.5 60.0		
Note: The more stringent limit applies at transition frequencies.				

Frequency (GHz)	Permitted limit in dBµV/m	Permitted limit in dBµV/m			
	(Peak)	(Average)			
	of Measurement Distance 3m	of Measurement Distance 3m			
1 ~ F _M	80.0	60.0			
Note: These limit levels apply for a measurement distance of 3 m. If using a different					
measurement distance, the measured levels shall be extrapolated to the 3 m limit distance					
using a factor of 20 dB per decade of distance. The measurement distance shall place the					
measurement antenna in the far field of the ITE or digital apparatus under test.					

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3.1.2 Limits for radiated disturbance of class B device

FCC

Frequency (MHz)	Permitted limit in dBµV/m (Quasi-peak) of Measurement Distance 3m
30 - 88	40.0
88 - 216	43.5
216 - 960	46.0
Above 960	54.0

Note: for the measurement distance other than 3m and 10m, the limit is varied according to 20dB/10 decades.

IC

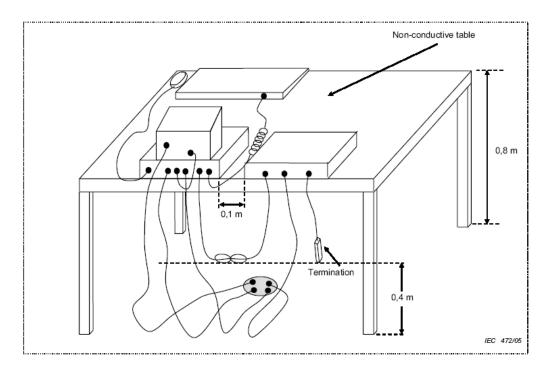
Frequency (MHz)	Permitted limit in dBμV/m	Permitted limit in dBµV/m		
	(Quasi-peak)	(Quasi-peak)		
	of Measurement Distance 10m of Measurement Distance			
30 ~ 88	30.0	40.0		
88 ~ 216	33.1	43.5		
216 ~ 230	35.6	46.0		
230 ~ 960	37.0	47.0		
960 ~ 1000	43.5	54.0		
Note: The more stringent limit applies at transition frequencies.				

Frequency (GHz)	Permitted limit in dBµV/m	Permitted limit in dBµV/m			
	(Peak)	(Average)			
	of Measurement Distance 3m	of Measurement Distance 3m			
1 ~ F _M	74.0	54.0			
Note: These limit levels apply for a measurement distance of 3 m. If using a different					
measurement distance, the measured levels shall be extrapolated to the 3 m limit distance					
using a factor of 20 dB per decade of distance. The measurement distance shall place the					
measurement antenna in the far field of the ITE or digital apparatus under test.					

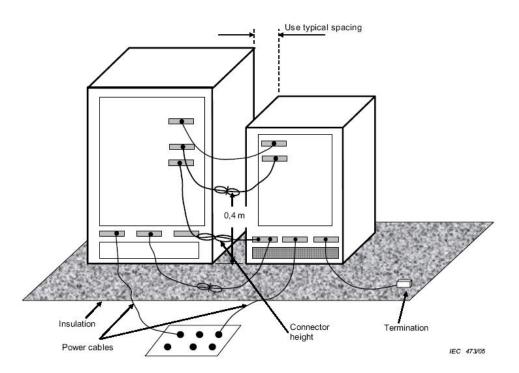
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3.2 Block diagram and test set up

For table top equipment



For floor standing equipment



3.3 Measurement Procedure

The measurement was performed in a semi-anechoic chamber. While testing for spurious emission higher than 1GHz, the pre-amplifier (and high pass filter if necessary) is equipped just at the output terminal of the antenna.

The distance from EUT to receiving antenna is 3 meters.

Measurement was performed according to clause 4 and clause 5 of ANSI 63.4.

Test procedure was according to clause 8.3 of ANSI 63.4.

EUT arrangement and operate condition were according to clause 6 and clause 8 of ANSI 63.4. The radiated emission was measured using the test receiver with the resolutions bandwidth set as:

RBW = 100kHz, VBW = 300kHz (30MHz~1GHz) RBW = 1MHz, VBW = 3MHz (>1GHz for PK)

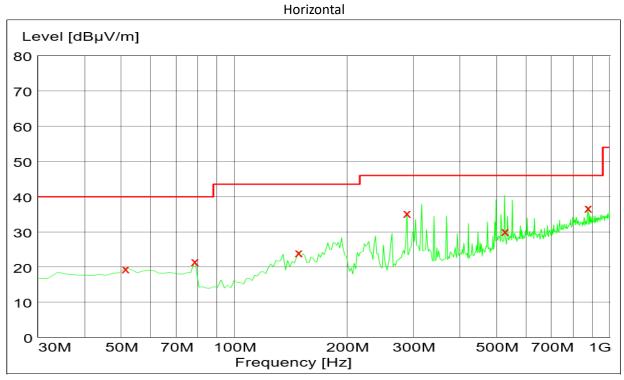
Highest internal frequency (Fx)	Highest measured frequency F _M for radiated measurement	Measured Bandwidth		
Fx ≤ 108 MHz	1 GHz	120kHz		
108 MHz < Fx ≤ 500 MHz	2 GHz	1MHz		
500 MHz < Fx ≤ 1 GHz	5 GHz	1MHz		
Fx > 1 GHz	5 $ imes$ Fx up to a maximum of 40 GHz	1MHz		
Note: 1. Fx is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.				

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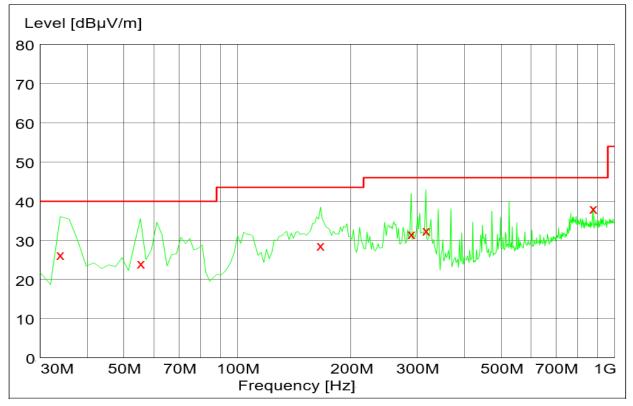
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3.4 Test Results of Radiated Emissions

Test Curve of Hot Water Washing mop mode:



Vertical



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Test data below 1GHz

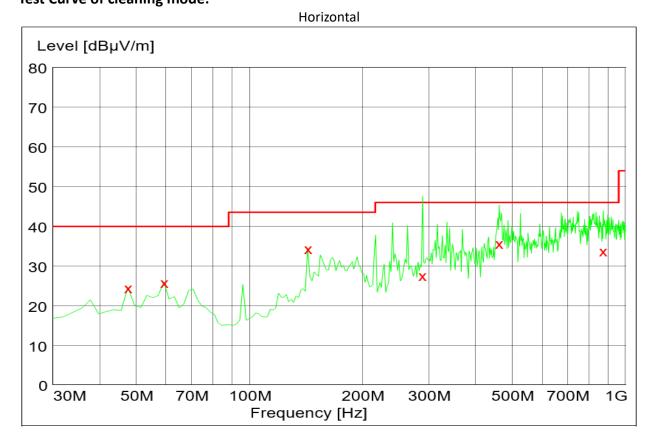
Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
Н	51.38	19.80	40.00	20.20	РК
Н	78.60	21.80	40.00	18.20	РК
н	148.58	24.40	43.50	19.10	РК
н	288.54	35.50	46.00	10.50	РК
Н	525.69	30.40	46.00	15.60	QP
н	875.59	37.10	46.00	8.90	РК
V	33.89	26.50	40.00	13.50	QP
V	55.27	24.30	40.00	15.70	QP
V	166.07	28.90	43.50	14.60	QP
V	288.54	31.90	46.00	14.10	QP
V	315.75	32.70	46.00	13.30	QP
V	877.54	38.30	46.00	7.70	РК

Above 1GHz

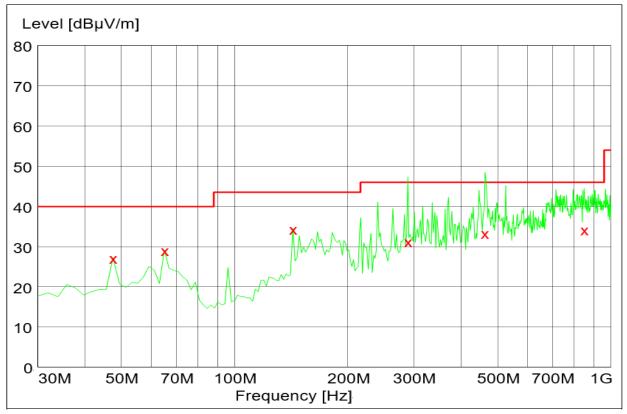
Polarization	Frequency (MHz)	Emission level (dBuV/m)	Limits (dBuV/m)	Margin (dBuV/m)	Detector
	1000.00	*	74.0	*	РК
	5000.00	*	74.0	*	РК
Horizontal	10000.00	*	74.0	*	РК
	15000.00	*	74.0	*	РК
	20000.00	*	74.0	*	РК
	25000.00	*	74.0	*	РК
Vertical	1000.00	*	74.0	*	РК
	5000.00	*	74.0	*	РК
	10000.00	*	74.0	*	РК
	15000.00	*	74.0	*	РК
	20000.00	*	74.0	*	РК
	25000.00	*	74.0	*	РК

Note: * means the emission level is 10dB or more lower than the relevant limit.

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Vertical



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Test data below 1GHz

Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
Н	47.49	24.70	40.00	15.30	РК
Н	59.16	26.00	40.00	14.00	РК
Н	142.75	34.60	43.50	8.90	РК
Н	288.54	27.70	46.00	18.30	QP
Н	461.54	35.90	46.00	10.10	QP
Н	873.65	34.00	46.00	12.00	QP
V	47.49	27.20	40.00	12.80	РК
V	64.99	29.20	40.00	10.80	РК
V	142.75	34.50	43.50	9.00	РК
V	288.54	31.40	46.00	14.60	QP
V	463.49	33.50	46.00	12.50	QP
V	848.38	34.40	46.00	11.60	QP

Above 1GHz

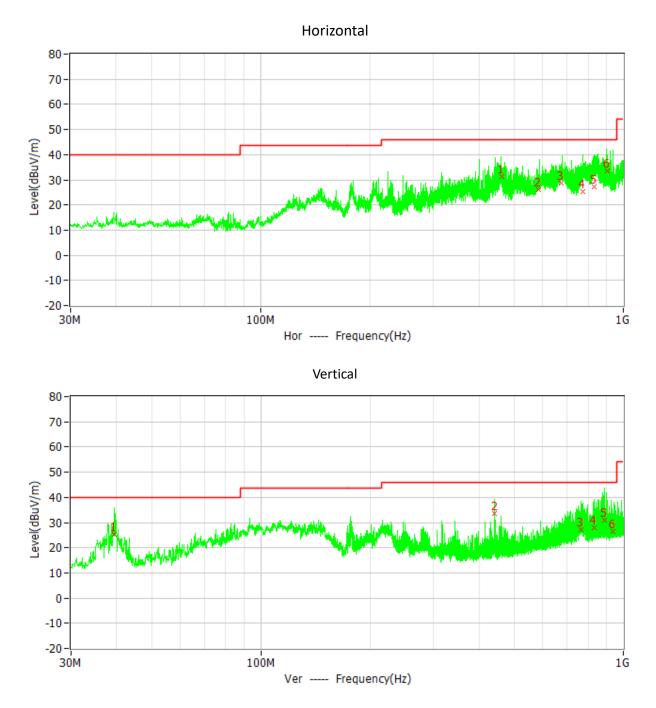
Polarization	Frequency (MHz)	Emission level (dBuV/m)	Limits (dBuV/m)	Margin (dBuV/m)	Detector
	1000.00	*	74.0	*	РК
	5000.00	*	74.0	*	РК
l le sine stal	10000.00	*	74.0	*	РК
Horizontal	15000.00	*	74.0	*	РК
	20000.00	*	74.0	*	РК
	25000.00	*	74.0	*	РК
	1000.00	*	74.0	*	РК
	5000.00	*	74.0	*	РК
	10000.00	*	74.0	*	РК
Vertical	15000.00	*	74.0	*	РК
	20000.00	*	74.0	*	РК
	25000.00	*	74.0	*	РК

Remark:

- 1. Factor= Antenna Factor + Cable Loss (-Amplifier, is employed)
- 2. Measured level= Original Receiver Reading + Factor
- 3. Margin = Limit Measured level
- 4. If the PK measured level is lower than AV limit, the AV test can be elided.

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Data of this change:



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Test data:

Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
н	462.58	31.30	46.00	14.70	QP
н	583.44	26.00	46.00	20.00	QP
н	675.32	28.70	46.00	17.30	QP
Н	775.10	25.40	46.00	20.60	QP
Н	833.18	27.20	46.00	18.80	QP
Н	901.82	33.60	46.00	12.40	QP
V	39.51	25.20	40.00	14.80	QP
V	442.39	33.60	46.00	12.40	QP
V	764.53	27.10	46.00	18.90	QP
V	832.84	27.90	46.00	18.10	QP
V	885.29	30.80	46.00	15.20	QP
V	937.37	26.60	46.00	19.40	QP

Remark:

- 1. Factor= Antenna Factor + Cable Loss (-Amplifier, is employed)
- 2. Measured level= Original Receiver Reading + Factor
- 3. Margin = Limit Measured level
- 4. If the PK measured level is lower than AV limit, the AV test can be elided.

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4 Power line conducted emission

Test result: Pass

4.1 Limit

4.1.1 Limits for conducted disturbance voltage at the mains ports of class A device

Frequency range	Limits dB(μV)					
(MHz)	Quasi-peak	Average				
0.15 ~ 0.5	79	66				
0.5 ~ 30	73	60				
Note: If the limit for the measurement with the average detector is met when using a receiver with a quasi-peak detector, the equipment under test shall be deemed to meet both limits and the measurement using the receiver with an average detector need not be carried out.						

4.1.2 Limits for conducted disturbance voltage at the mains ports of class B device

Frequency range	Limits dB(µV)				
(MHz)	Quasi-peak	Average			
0.15 ~ 0.5	66 ~ 56 *	56 ~ 46 *			
0.5 ~ 5	56	46			
5 ~ 30	60	50			

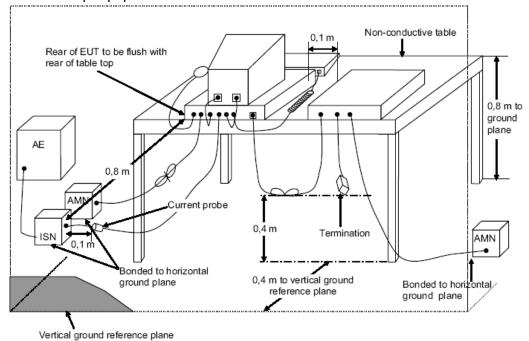
Note: 1. * Means the limit decreasing linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz

2. If the limit for the measurement with the average detector is met when using a receiver with a quasi-peak detector, the equipment under test shall be deemed to meet both limits and the measurement using the receiver with an average detector need not be carried out.

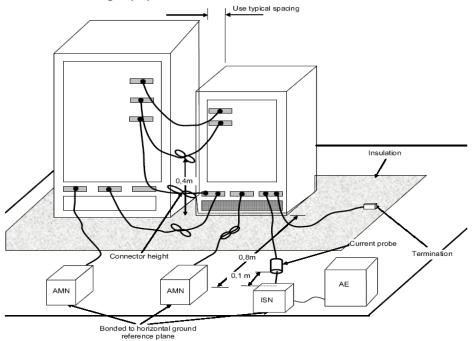
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4.2 Block diagram and test set up

For table top equipment



For floor standing equipment





4.3 Measurement Procedure

Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the 50 Ω LISN port (to which the EUT is connected), where permitted, terminated into a 50 Ω measuring instrument. All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer. For those measurements using a LISN, the 50 Ω measuring port is terminated by a measuring instrument having 50 Ω input impedance. All other ports are terminated in 50 Ω loads.

Tabletop devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

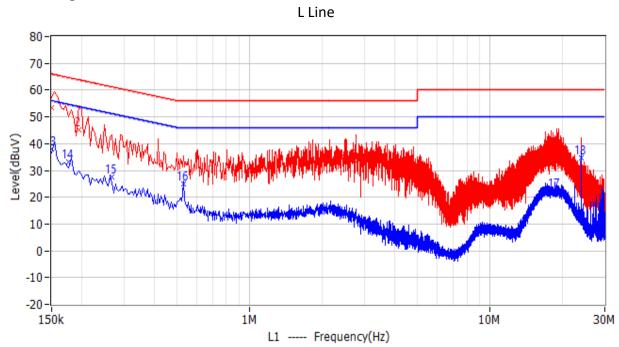
The bandwidth of the test receiver is set at 9 kHz.

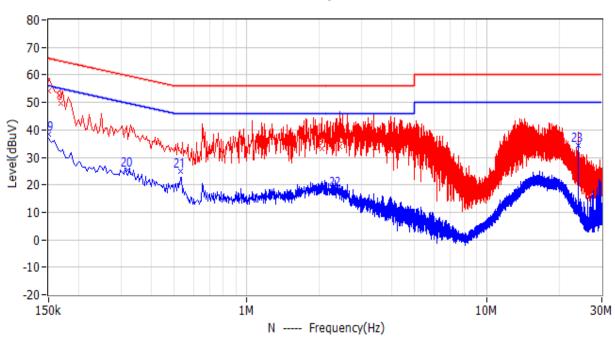
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4.4 Test Results of Power line conducted emission

Test Curve:

Test Voltage: AC 120V, 60Hz





N Line

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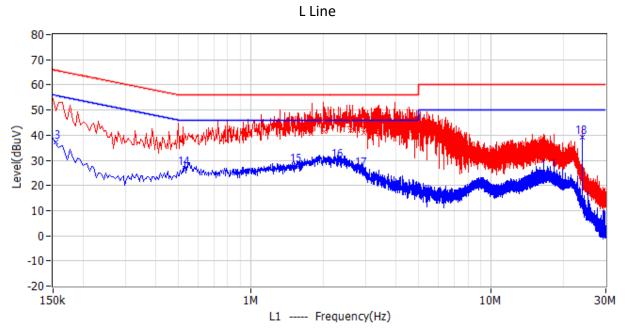
Test Data:

Nie	Freeseware	Limit	Level	Delta	Reading	Factor	Detector	Dhase
No.	Frequency	dBuV	dBuV	dB	dBuV	dB	Detector	Phase
1	150.000kHz	66.0	53.3	-12.7	47.1	6.2	QP	L1
2	195.000kHz	63.8	45.1	-18.7	38.9	6.2	QP	L1
3	2.126MHz	56.0	32.9	-23.1	26.7	6.2	QP	L1
4	2.522MHz	56.0	33.2	-22.8	27.0	6.2	QP	L1
5	2.760MHz	56.0	33.0	-23.0	26.8	6.2	QP	L1
6	19.491MHz	60.0	31.3	-28.7	24.9	6.4	QP	L1
7	150.000kHz	66.0	54.0	-12.0	47.8	6.2	QP	Ν
8	168.000kHz	65.1	49.8	-15.3	43.6	6.2	QP	Ν
9	2.054MHz	56.0	33.2	-22.8	26.9	6.3	QP	Ν
10	2.432MHz	56.0	34.0	-22.0	27.7	6.3	QP	Ν
11	3.417MHz	56.0	33.6	-22.4	27.3	6.3	QP	Ν
12	3.962MHz	56.0	32.6	-23.4	26.3	6.3	QP	Ν
13	150.000kHz	56.0	37.9	-18.1	31.7	6.2	CAV	L1
14	177.000kHz	54.6	33.1	-21.5	27.0	6.1	CAV	L1
15	267.000kHz	51.2	27.4	-23.8	21.2	6.2	CAV	L1
16	532.500kHz	46.0	25.0	-21.0	18.8	6.2	CAV	L1
17	18.659MHz	50.0	22.3	-27.7	15.9	6.4	CAV	L1
18	24.005MHz	50.0	34.6	-15.4	28.2	6.4	CAV	L1
19	150.000kHz	56.0	38.3	-17.7	32.1	6.2	CAV	Ν
20	321.000kHz	49.7	25.3	-24.3	19.1	6.2	CAV	Ν
21	532.500kHz	46.0	24.8	-21.2	18.5	6.3	CAV	Ν
22	2.346MHz	46.0	18.3	-27.7	12.0	6.3	CAV	Ν
23	24.000MHz	50.0	34.3	-15.7	27.8	6.5	CAV	Ν

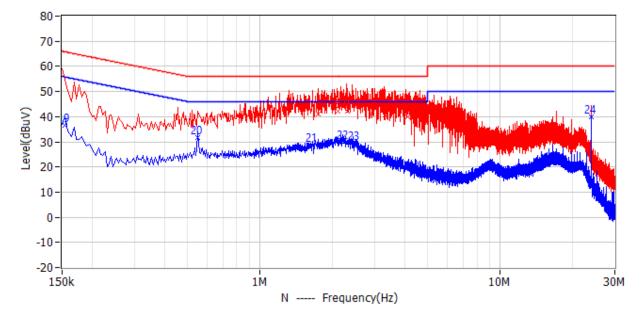
intertek Total Quality. Assured.

TEST REPORT

Data of this change:



N Line



intertek Total Quality. Assured. TEST REPORT

Na	Freesee	Limit	Level	Delta	Reading	Factor	Detector	Dhasa
No.	Frequency	dBuV	dBuV	dB	dBuV	dB	Detector	Phase
1	1.784MHz	56.0	40.8	-15.2	34.5	6.3	QP	L1
2	2.018MHz	56.0	41.6	-14.4	35.3	6.3	QP	L1
3	2.598MHz	56.0	41.7	-14.3	35.4	6.3	QP	L1
4	2.940MHz	56.0	41.1	-14.9	34.8	6.3	QP	L1
5	3.417MHz	56.0	40.3	-15.7	34.0	6.3	QP	L1
6	3.930MHz	56.0	39.8	-16.2	33.4	6.4	QP	L1
7	1.748MHz	56.0	40.9	-15.1	34.6	6.3	QP	Ν
8	2.117MHz	56.0	42.2	-13.8	35.9	6.3	QP	Ν
9	2.310MHz	56.0	42.2	-13.8	35.9	6.3	QP	Ν
10	2.936MHz	56.0	40.9	-15.1	34.6	6.3	QP	Ν
11	3.305MHz	56.0	40.5	-15.5	34.2	6.3	QP	Ν
12	4.106MHz	56.0	39.9	-16.1	33.5	6.4	QP	Ν
13	154.500kHz	55.8	37.4	-18.3	31.2	6.2	CAV	L1
14	532.500kHz	46.0	26.7	-19.3	20.5	6.2	CAV	L1
15	1.550MHz	46.0	28.0	-18.0	21.7	6.3	CAV	L1
16	2.306MHz	46.0	30.0	-16.0	23.7	6.3	CAV	L1
17	2.895MHz	46.0	26.4	-19.6	20.1	6.3	CAV	L1
18	24.000MHz	50.0	39.0	-11.0	32.5	6.5	CAV	L1
19	154.500kHz	55.8	36.5	-19.3	30.2	6.3	CAV	Ν
20	550.500kHz	46.0	31.8	-14.2	25.6	6.2	CAV	Ν
21	1.653MHz	46.0	28.7	-17.3	22.4	6.3	CAV	Ν
22	2.225MHz	46.0	29.7	-16.3	23.4	6.3	CAV	Ν
23	2.490MHz	46.0	29.6	-16.4	23.3	6.3	CAV	Ν
24	24.005MHz	50.0	39.8	-10.2	33.2	6.6	CAV	Ν

Remark: 1. Correct Factor = LISN Factor + Cable Loss, the value was added to Original Receiver Reading by the software automatically.

2. Corrected Reading = Original Receiver Reading + Correct Factor

3. Margin = Limit - Corrected Reading

4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.



Appendix I: Photograph of equipment under test

Refer to the documents for the External Photos and Internal Photos