Report No.: LCSA01085165EA





For

Mamibot Manufacturing (Shanghai) Co., Ltd.

Robot Window Cleaner

Test Model: W120-DP

Additional Model No.: Please Refer to Page 6

Prepared for Mamibot Manufacturing (Shanghai) Co., Ltd.

Address North 21st FL, No.1 Building, LN1040 Caoyang Rd, Shanghai, P.R.C.

Prepared by Shenzhen LCS Compliance Testing Laboratory Ltd.

Address 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,

Shajing Street, Baoan District, Shenzhen, 518000, China

Tel (+86)755-82591330 Fax (+86)755-82591332 Web www.LCS-cert.com

Mail webmaster@LCS-cert.com

Date of receipt of test sample August 02, 2024

Number of tested samples

Sample No. A240731077-1, A240731077-2

Serial number Prototype

Date of Test August 02, 2024 ~ August 22, 2024

Date of Report January 16, 2025





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FCC ID: 2BKBK-W120DP

FCC TEST REPORT FCC CFR 47 PART 15 C(15.247)

Report Reference No.: LCSA01085165EA

Date of Issue: January 16, 2025

Testing Laboratory Name: Shenzhen LCS Compliance Testing Laboratory Ltd.

Address: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,

Shajing Street, Baoan District, Shenzhen, 518000, China

Testing Location Procedure.....: Full application of Harmonised standards ■

Partial application of Harmonised standards

Other standard testing method

Applicant's Name.....: Mamibot Manufacturing (Shanghai) Co., Ltd.

P.R.C.

Test Specification

Standard.....: FCC CFR 47 PART 15 C(15.247)

Test Report Form No.: TRF-4-E-145 A/0

TRF Originator Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF Dated 2011-03

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EUT Description.....: Robot Window Cleaner

Trade Mark : Mamibot Test Model: W120-DP

Ratings For AC Adapter: Input:100-240V~, 50/60Hz, 2.5A

Output: 24V-3A

DC 14.8V by Rechargeable Li-ion Battery, 600mAh

Result: Positive

Compiled by:

Supervised by:

Approved by:

Report No.: LCSA01085165EA

Ling Zhu/ Administrator

Jack Liu/ Technique principal

Gavin Liang/ Manager



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FCC -- TEST REPORT

Report No.: LCSA01085165EA

Test Report No.: LCSA01085165EA January 16, 2025

Date of issue

Test Model..... : W120-DP EUT.....: Robot Window Cleaner : Mamibot Manufacturing (Shanghai) Co., Ltd. Applicant..... Address..... : North 21st FL, No.1 Building, LN1040 Caoyang Rd, Shanghai, P.R.C. Telephone..... Fax..... Manufacturer..... : Mamibot Manufacturing (Shanghai) Co., Ltd. : North 21st FL, No.1 Building, LN1040 Caoyang Rd, Shanghai, Address..... P.R.C. Telephone.....: : / Fax..... : Mamibot Manufacturing (Shanghai) Co., Ltd. Factory..... : North 21st FL, No.1 Building, LN1040 Caoyang Rd, Shanghai, Address..... P.R.C. Telephone.....

Test Result	Positive

The test report merely corresponds to the test sample.

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It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



LCS Testing Lab



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FCC ID: 2BKBK-W120DP

Revision History

Revision History			
Report Version	Issue Date	Revision Content	Revised By
000	January 16, 2025	Initial Issue	1

At the customer's request, the revised report was submitted to LCSA01085165EA applicant by quoting the test data of LCSA08014231EA original report.

Report No.: LCSA01085165EA

















FCC ID: 2BKBK-W120DP

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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Robot Window Cleaner

Test Model : W120-DP

: W120-DP PRO, W120-DPA, W120-DPB, W120-DPE, W120-DPF Additional Model No.

Model Declaration : the manufacturer of the power adapter and battery is different,

others are in the same.

Power Supply : For AC Adapter: Input:100-240V~, 50/60Hz, 2.5A

Output: 24V=3A

DC 14.8V by Rechargeable Li-ion Battery, 600mAh

Hardware Version : EGS-01-MAIN-VQ5

Software Version : EGS-01-R4Q3L2A-S010

Bluetooth

Frequency Range : 2402MHz-2480MHz

Bluetooth Channel Number : 40 channels for Bluetooth V5.0 (DTS)

: 2MHz for Bluetooth V5.0 (DTS) Bluetooth Channel Spacing

Bluetooth Modulation Type : GFSK for Bluetooth V5.0 (DTS)

Bluetooth Version : V5.0

Antenna Description : PCB Antenna, 2.5dBi (Max.)

Model Declaration:

Item Name	Manufacturer	Model	Ratings
Adapter	FOSHAN SHUNDE GUANYUDA POWER	GM70-240300-D	Input 100-240V~:50/60Hz. 2.5A Max
	SUPPLY CO.,LTD		2.5A IVIAX
Battery pack	Dongguan Mangrove New Energy Co., Ltd	HSL 14500	14.8V, 600mAh, 8.8Wh
LCS Testino	- Lo	S Testino	LCS Testino







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1.2. Host System Configuration List and Details

T.Z. Floor Cyotoffi Cornigat	ation List and Be	rano	. ar 44	
Manufacturer	Description	Model	Serial Number	Certificate
FOSHAN SHUNDE	I LCS Testin	CM70 240200	6211	MST LCST
GUANYUDA POWER	Power Adapter	GM70-240300-		FCC
SUPPLY CO.,LTD		U		

1.3. External IO Cable

IO Port Description	Quantity	Cable
Power Port	1	N/A

1.4. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISOIEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.



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1.6. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
311119		9KHz~30MHz	±3.10dB	(1)
		30MHz~200MHz	±2.96dB	(1)
Radiation Uncertainty	:	200MHz~1000MHz	±3.10dB	(1)
		1GHz~26.5GHz	±3.80dB	(1)
		26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)
Output power	:	1GHz-40GHz	±0.57dB	(1)
Power Spectral Density	:	1GHz-40GHz	±1.2dB	(1)
Occupied Channel Bandwidth		1GHz-40GHz	±5%	(1)
Conducted RF Spurious Emission	:	9kHz-40GHz	±1.80dB	(1)
Emissions in Restricted Bands	:	1GHz-40GHz	±2.47dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.7. Description of Test Modes

The EUT has been tested under operating condition.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in Y position.

AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/50Hz modes, recorded worst case at AC120V/60Hz.

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was determined to be BT LE mode (1Mbps-Low Channel).

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was determined to be BT LE mode (1Mbps-Low Channel).

Worst-Case data rates were utilized from preliminary testing of the Chipset, worst-case data rates used during the testing are as follows:

BT LE: 1 Mbps, GFSK. BT LE: 2 Mbps, GFSK.

BT LE

Frequency Band	Channel No.	Frequency(MHz)	Channel No.	Frequency(MHz)
	0	2402	20	2442
	1	2404		
2402~2480MHz	2	2406	-	
2402~2400IVITIZ			37	2476
			38	2478
	19	2440	39	2480



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2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd.

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to FCC's request, Test Procedure KDB558074 D01 15.247 Meas Guidance v05r02 is required to be used for this kind of FCC 15.247 digital modulation device.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

2.3. General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1GHz and 1.5 m above gro und plane above 1GHz. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013.

2.4. Test Sample

The application provides 2 samples to meet requirement;

Sample Number	Description
Sample 1(A240731077-1)	Engineer sample – continuous transmit
Sample 2(A240731077-2)	Normal sample – Intermittent transmit



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3. SYSTEM TEST CONFIGURATION

3.1. Justification

The system was configured for testing in a continuous transmits condition.

3.2. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software provided by application.

3.3. Special Accessories

NA.

3.4. Block Diagram & Schematics

Please refer to the related document

3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.



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4. SUMMARY OF TEST RESULTS

SUMMARY OF T	EST RESULTS			
	Applied Standard: FCC Par	t 15 Subpart	C	
FCC Rules	Description of Test	Test Sample	Result	Remark
§15.247(b)	Maximum Peak Conducted Output Power	Sample 1	Compliant	Note 1
§15.209, §15.247(d)	Radiated Spurious Emissions	Sample 1 Sample 2	Compliant	Note 1
§15.207(a)	Conducted Emissions	Sample 2	Compliant	Note 1

Remark:

- 1. Note 1 Test results inside test report;
- 2. Note 2 Test results in other test report (RF Exposure Evaluation);

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5. TEST RESULT

5.1. Radiated Emissions Measurement

5.1.1. Standard Applicable

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
\1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293.	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725 13.36-13.41	322-335.4	3600-4400	(\2\)

\1\ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

\2\ Above 38.6

According to §15.247 (d): 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(microvoltsmeter)	(meters)
0.009~0.490	2400F(KHz)	300
0.490~1.705	24000F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3 : 1 () () () () ()
216~960	200	3 c Testing
Above 960	500	3

5.1.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10 th carrier harmonic
RB VB (Emission in restricted band)	1MHz 1MHz for Peak, 1 MHz 1B kHz for Average
RB VB (Emission in non-restricted band)	1MHz 1MHz for Peak, 1 MHz 1B kHz for Average





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Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz RBVB 200Hz1KHz for QPAVG
Start ~ Stop Frequency	150kHz~30MHz RBVB 9kHz30KHz for QPAVG
Start ~ Stop Frequency	30MHz~1000MHz RBVB 120kHz1MHz for QP

5.1.3. Test Procedures

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna height is 1.0 meter.
- --- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- --- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- --- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.



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2) Sequence of testing 30 MHz to 1 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height changes from 1 to 3 meter.
- --- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.
- --- The final measurement will be done with QP detector with an EMI receiver.
- --- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.



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3) Sequence of testing 1 GHz to 18 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height scan range is 1 meter to 2.5 meter.
- --- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- --- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.



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4) Sequence of testing above 18 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 1 meter.
- --- The EUT was set into operation.

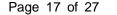
Premeasurement:

--- The antenna is moved spherical over the EUT in different polarizations of the antenna.

Final measurement:

- --- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.



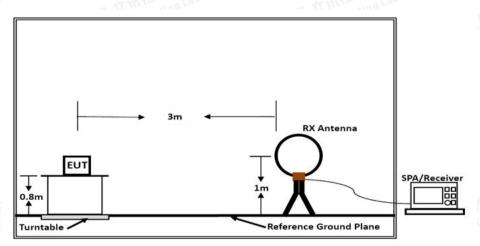


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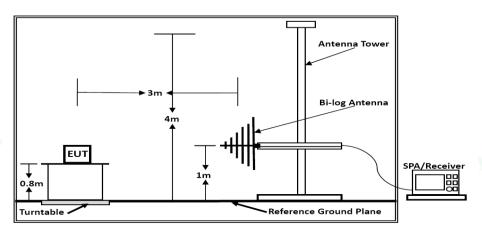
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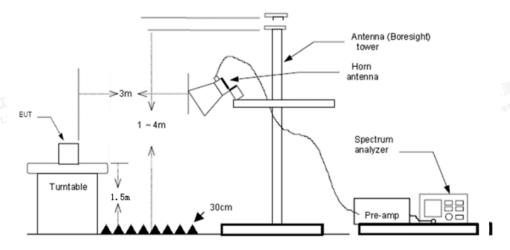
5.1.4. Test Setup Layout



Below 30MHz



Below 1GHz



Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dBdecade form 3m to 1m.



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5.1.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.1.6. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS (dBuV/m) = RA (dBuV) + AF (dB/m) + CL (dB) - AG (dB)

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)			
山山	RA = Reading Amplitude	立诗程	AG = Amplifier Gain		
1/8/1	AF = Antenna Factor	TCS.	183 res		

5.1.7. Results of Radiated Emissions (9 KHz~30MHz)

Temperature	23.8℃	Humidity	52.1%		
Test Engineer	Jerry Chu	Configurations	BT LE, 1 Mbps		

Freq.	Level	Over Limit	Over Limit	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
公司服设计-	- WE STILL SE	份 -	拉测股份	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance test distance) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor.

5.1.8. Results of Radiated Emissions (30MHz~1GHz)

Temperature	23.8℃	Humidity	52.1%
Test Engineer	Jerry Chu	Configurations	BT LE, 1 Mbps
LCS Testins	181	CS Testing	LCS Testins



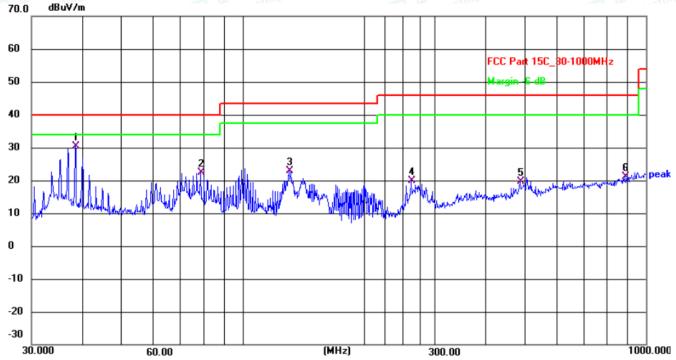
Tasting Laboraton 14d

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Test result for BT LE mode (1Mbps-Low Channel)





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.4809	47.89	-17.62	30.27	40.00	-9.73	QP
2	78.6888	42.15	-19.83	22.32	40.00	-17.68	QP
3	130.3789	43.47	-20.58	22.89	43.50	-20.61	QP
4	261.9753	35.25	-15.48	19.77	46.00	-26.23	QP
5	487.3151	33.40	-13.82	19.58	46.00	-26.42	QP
6	887.6099	29.63	-8.49	21.14	46.00	-24.86	QP
TE	正洲位测 Los Testing Lab		LCS Tes	Flud Fap	1/2	立语标识 LCS Testi	ng Lab









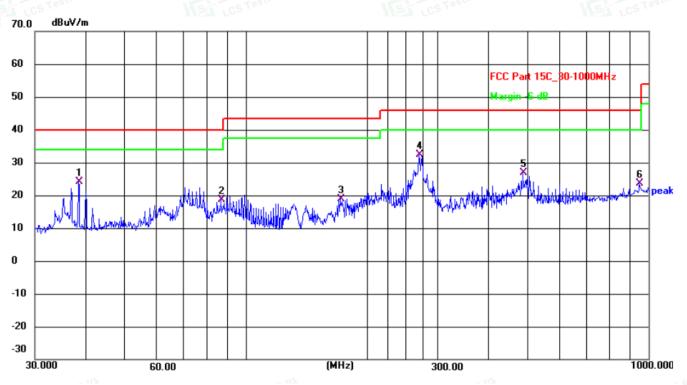


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Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.4809	41.28	-17.13	24.15	40.00	-15.85	QP
2	86.8068	38.25	-19.71	18.54	40.00	-21.46	QP
3	171.9946	38.96	-20.08	18.88	43.50	-24.62	QP
4	269.4284	49.00	-16.50	32.50	46.00	-13.50	QP
5	487.3151	39.75	-12.86	26.89	46.00	-19.11	QP
6	948.7610	30.48	-6.79	23.69	46.00	-22.31	QP

Note:

- 1). Pre-scan all modes and recorded the worst case results in this report BT LE mode (1Mbps-Low Channel).
- 2). Emission level (dBuVm) = 20 log Emission level (uVm).
- 3). Level = Reading + Factor, Margin = Level Limit, Factor = Antenna Factor + Cable Loss Preamp Factor



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5.1.9. Results for Radiated Emissions (1 GHz – 26.5 GHz)

worst case: BT LE, 1 Mbps

Channel 0 2402 MHz

Freq. MHz	Reading dBuv	Ant. Fac. dBm	Pre. Fac. dB	Cab. Loss dB	Measured dBuvm	Limit dBuvm	Margin dB	Remark	Pol.
4804.00	55.92	33.06	35.04	3.94	57.88	74.00	-16.12	Peak	Horizontal
4804.00	41.86	33.06	35.04	3.94	43.82	54.00	-10.18	Average	Horizontal
4804.00	56.55	33.06	35.04	3.94	58.51	74.00	-15.49	Peak	Vertical
4804.00	42.07	33.06	35.04	3.94	44.03	54.00	-9.97	Average	Vertical

Channel 19 2440 MHz

_										
	Freq. MHz	Reading dBuv	Ant. Fac. dBm	Pre. Fac. dB	Cab. Loss dB	Measured dBuvm	Limit dBuvm	Margin dB	Remark	Pol.
	4880.00	55.49	33.16	35.15	3.96	57.46	74.00	-16.54	Peak	Horizontal
Ī	4880.00	40.56	33.16	35.15	3.96	42.53	54.00	-11.47	Average	Horizontal
Ī	4880.00	58.08	33.16	35.15	3.96	60.05	74.00	-13.95	Peak	Vertical
Ī	4880.00	45.08	33.16	35.15	3.96	47.05	54.00	-6.95	Average	Vertical

Channel 39 2480 MHz

Channe	el 39 2480 l	MHz							
Freq. MHz	Reading dBuv	Ant. Fac. dBm	Pre. Fac. dB	Cab. Loss dB	Measured dBuvm	Limit dBuvm	Margin dB	Remark	Pol.
4960.00	60.48	33.26	35.14	3.98	62.58	74.00	-11.42	Peak	Horizontal
4960.00	43.22	33.26	35.14	3.98	45.32	54.00	-8.68	Average	Horizontal
4960.00	55.03	33.26	35.14	3.98	57.13	74.00	-16.87	Peak	Vertical
4960.00	43.35	33.26	35.14	3.98	45.45	54.00	-8.55	Average	Vertical

Notes:

- 1). Measuring frequencies from 9 KHz~10th harmonic or 26.5GHz (which is less), at least have 20dB margin found between lowest internal used generated frequency to 30MHz.
- 2). Radiated emissions measured in frequency range from 9 KHz~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.
- 3). Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4). Measured Level = Reading Level + Factor, Margin = Measured Level Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor



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5.2. AC Power line conducted emissions

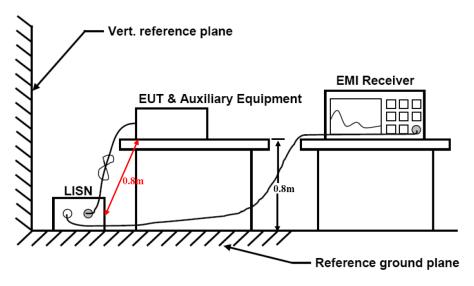
5.2.1 Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range	Limits (dBµV)				
(MHz)	Quasi-peak	Average			
0.15 to 0.50	66 to 56	56 to 46			
0.50 to 5	56	46			
5 to 30	60	50			

^{*} Decreasing linearly with the logarithm of the frequency

5.2.2 Block Diagram of Test Setup



5.2.3. Disturbance Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

CD (dBuV) = RA (dBuV) + PL (dB) + CL (dB)

		/ \	/			/		
Where	CD = C	Conducte	ed Dist	turband	се	AL LOS	CL	. = Cable Attenuation Factor (Cable Loss)
	RA = F	Reading	Amplit	tude			PL	= 10 dB Pulse Limiter Factor

5.2.4 Test Results

Temperature	22.5 ℃	Humidity	53.7%
Test Engineer	Jerry Chu	Configurations	BT LE, 1 Mbps

PASS.

The test data please refer to following page.



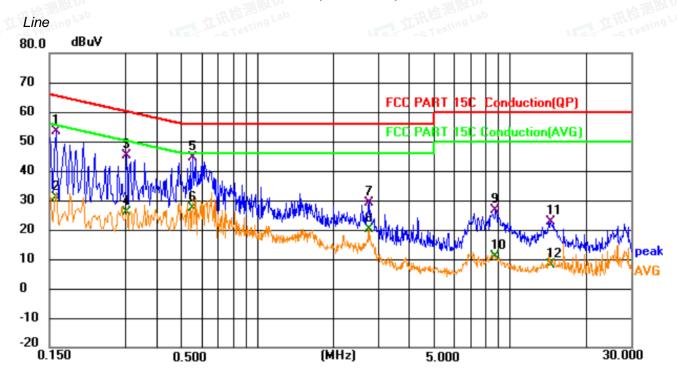
Shenzhen LCS Compliance Testing Laboratory Ltd.

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AC Conducted Emission of @ AC 120V60Hz (worst case)



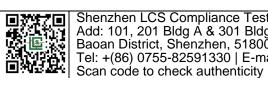
_	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
	1		0.159	33.59	19.84	53.43	65.52	-12.09	QP	
	2		0.159	11.10	19.84	30.94	55.52	-24.58	AVG	
	3		0.303	25.46	19.82	45.28	60.16	-14.88	QP	
-	4		0.303	5.94	19.82	25.76	50.16	-24.40	AVG	
-	5	*	0.555	24.96	19.67	44.63	56.00	-11.37	QP	
-	6		0.555	7.49	19.67	27.16	46.00	-18.84	AVG	
-	7		2.764	9.79	19.17	28.96	56.00	-27.04	QP	
	8		2.764	0.98	19.17	20.15	46.00	-25.85	AVG	
	9		8.745	6.81	19.62	26.43	60.00	-33.57	QP	
	10		8.745	-8.63	19.62	10.99	50.00	-39.01	AVG	
-	11		14.460	2.68	19.90	22.58	60.00	-37.42	QP	
	12		14.460	-11.75	19.90	8.15	50.00	-41.85	AVG	
_										











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Neutral dBuV 80.0 70 Conduction(QP) 60 15¢ Conduction(AVG) **50** 40 30 20 10 0 -10 -20

(MHz)

5.000

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30.000

-	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
-	1		0.258	30.07	19.78	49.85	61.50	-11.65	QP	
-	2		0.258	8.35	19.78	28.13	51.50	-23.37	AVG	
	3	*	0.559	31.88	19.42	51.30	56.00	-4.70	QP	
-	4		0.559	20.08	19.42	39.50	46.00	-6.50	AVG	
_	5		2.760	8.98	19.03	28.01	56.00	-27.99	QP	
_	6		2.760	-0.71	19.03	18.32	46.00	-27.68	AVG	
-	7		8.754	7.01	19.79	26.80	60.00	-33.20	QP	
-	8		8.754	-8.76	19.79	11.03	50.00	-38.97	AVG	
-	9		15.009	2.09	19.74	21.83	60.00	-38.17	QP	
_	10		15.009	-10.86	19.74	8.88	50.00	-41.12	AVG	
_	11		28.689	2.67	18.84	21.51	60.00	-38.49	QP	
_	12		28.689	-4.84	18.84	14.00	50.00	-36.00	AVG	

^{***}Note: 1). Pre-scan all modes and recorded the worst case results in this report BT LE mode (1Mbps-Low

0.500

Correct Factor=Lisn Factor+Cable Factor+Insertion loss of Pulse Limiter.



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^{2).} Measurement = Reading + Correct, Margin = Measurement - Limit.;



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5.3. Maximum Peak Conducted Output Power Measurement

5.3.1. Standard Applicable

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

5.3.2. Test Procedures

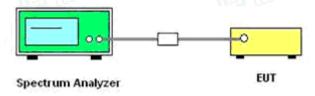
The transmitter output (antenna port) was connected to the spectrum analyzer.

According to KDB558074 D01 15.247 Meas Guidance v05r02 Section 9.1 Maximum peak conducted output power 9.1.1.

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

- a) Set the RBW ≥ DTS bandwidth.
- b) Set VBW $\geq 3 \times RBW$.
- c) Set span ≥ 3 x RBW
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

5.3.3. Test Setup Layout



5.3.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.3.5. Test Result of Maximum Peak Conducted Output Power

PASS

17100					
Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)	Original Power(dBm)	
	0	2402	0.64	0.75	
BLE	19	2440	-0.32	-0.27	
	39	2480	-0.11	-0.15	
	0	2402	-0.45	-0.23	
BT2LE	19	2440	0.36	0.45	
	39	2480	-0.69	-0.61	

Remark:

1)Test results including cable loss.



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6. LIST OF MEASURING EQUIPMENTS

Equipment Power Meter Power Sensor Power Sensor Test Software RF Control Unit MXA Signal Analyzer DC Power Supply EMI Test Software Semi Anechoic Chamber Positioning Controller Active Loop Antenna By-log Antenna	Manufacturer R&S R&S R&S R&S Tonscend Tonscend Agilent Agilent AUDIX SIDT FRANKONIA Max-Full SCHWARZBECK	Model No. NRVS NRV-Z81 NRV-Z32 JS1120-2 JS0806-2 N9020A E3642A E3 SAC-3M MF7802BS FMZB 1519B	Serial No. 100444 100458 10057 / N/A MY50510140 N/A / 03CH03-HY MF780208586	Cal Date 2024-06-06 2024-06-06 N/A 2024-06-06 2023-10-18 N/A 2024-06-06	Due Date 2025-06-05 2025-06-05 N/A 2025-06-05 2024-10-17 N/A 2025-06-05
Power Sensor Power Sensor Test Software RF Control Unit MXA Signal Analyzer DC Power Supply EMI Test Software Semi Anechoic Chamber Positioning Controller Active Loop Antenna By-log Antenna	R&S R&S Tonscend Tonscend Agilent Agilent AUDIX SIDT FRANKONIA Max-Full SCHWARZBECK	NRV-Z81 NRV-Z32 JS1120-2 JS0806-2 N9020A E3642A E3 SAC-3M MF7802BS	100458 10057 / N/A MY50510140 N/A / 03CH03-HY	2024-06-06 2024-06-06 N/A 2024-06-06 2023-10-18 2023-10-18 N/A	2025-06-05 2025-06-05 N/A 2025-06-05 2024-10-17 2024-10-17 N/A
Power Sensor Test Software RF Control Unit MXA Signal Analyzer DC Power Supply EMI Test Software Semi Anechoic Chamber Positioning Controller Active Loop Antenna By-log Antenna	R&S Tonscend Tonscend Agilent Agilent AUDIX SIDT FRANKONIA Max-Full SCHWARZBECK	NRV-Z32 JS1120-2 JS0806-2 N9020A E3642A E3 SAC-3M MF7802BS	10057 / N/A MY50510140 N/A / 03CH03-HY	2024-06-06 N/A 2024-06-06 2023-10-18 2023-10-18 N/A	2025-06-05 N/A 2025-06-05 2024-10-17 2024-10-17 N/A
Test Software RF Control Unit MXA Signal Analyzer DC Power Supply EMI Test Software Semi Anechoic Chamber Positioning Controller Active Loop Antenna By-log Antenna	Tonscend Tonscend Agilent Agilent AUDIX SIDT FRANKONIA Max-Full SCHWARZBECK	JS1120-2 JS0806-2 N9020A E3642A E3 SAC-3M MF7802BS	/ N/A MY50510140 N/A / 03CH03-HY	N/A 2024-06-06 2023-10-18 2023-10-18 N/A	N/A 2025-06-05 2024-10-17 2024-10-17 N/A
RF Control Unit MXA Signal Analyzer DC Power Supply EMI Test Software Semi Anechoic Chamber Positioning Controller Active Loop Antenna By-log Antenna	Tonscend Agilent Agilent AUDIX SIDT FRANKONIA Max-Full SCHWARZBECK	JS0806-2 N9020A E3642A E3 SAC-3M MF7802BS	MY50510140 N/A / 03CH03-HY	2024-06-06 2023-10-18 2023-10-18 N/A	2025-06-05 2024-10-17 2024-10-17 N/A
MXA Signal Analyzer DC Power Supply EMI Test Software Semi Anechoic Chamber Positioning Controller Active Loop Antenna By-log Antenna	Agilent Agilent AUDIX SIDT FRANKONIA Max-Full SCHWARZBECK	N9020A E3642A E3 SAC-3M MF7802BS	MY50510140 N/A / 03CH03-HY	2023-10-18 2023-10-18 N/A	2024-10-17 2024-10-17 N/A
DC Power Supply EMI Test Software Semi Anechoic Chamber Positioning Controller Active Loop Antenna By-log Antenna	Agilent AUDIX SIDT FRANKONIA Max-Full SCHWARZBECK	E3642A E3 SAC-3M MF7802BS	N/A / 03CH03-HY	2023-10-18 N/A	2024-10-17 N/A
EMI Test Software Semi Anechoic Chamber Positioning Controller Active Loop Antenna By-log Antenna	AUDIX SIDT FRANKONIA Max-Full SCHWARZBECK	E3 SAC-3M MF7802BS	/ 03CH03-HY	N/A	N/A
Semi Anechoic Chamber Positioning Controller Active Loop Antenna By-log Antenna	SIDT FRANKONIA Max-Full SCHWARZBECK	SAC-3M MF7802BS	03CH03-HY	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20
Positioning Controller Active Loop Antenna By-log Antenna	Max-Full SCHWARZBECK	MF7802BS		2024-06-06	2025-06-05
Active Loop Antenna By-log Antenna	SCHWARZBECK		MF780208586		1
By-log Antenna		EM7D 1510D		N/A	N/A
, ,	SCHWAR7BECK	LINITO 1918P	00005	2024-07-13	2027-07-12
	CONTINUALEDECIN	VULB9163	9163-470	2021-09-12	2024-09-11
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04
padband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2021-08-29	2024-08-28
roadband Preamplifier	SCHWARZBECK	BBV9719	9719-025	2021-08-29	2024-08-28
EMI Test Receiver	R&S	ESR 7	101181	2024-06-06	2025-06-05
SPECTRUM ANALYZER	R&S	FSP40	100503	2024-06-06	2025-06-05
ow-frequency amplifier	SchwarzZBECK	BBV9745	00253	2023-10-18	2024-10-17
gh-frequency amplifier	JS Denki Pte	PA0118-43	JSPA21009	2023-10-18	2024-10-17
6dB Attenuator	/	100W/6dB	1172040	2024-06-06	2025-06-05
3dB Attenuator	/	2N-3dB	/	2023-10-18	2024-10-17
EMI Test Receiver	R&S	ESPI	101940	2024-06-06	2025-06-05
Artificial Mains	R&S	ENV216	101288	2024-06-06	2025-06-05
10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2024-06-06	2025-06-05
EMI Test Software	Farad	EZ	/	N/A	N/A
Antenna Mast	Max-Full	MFA-515BSN	1308572	N/A	N/A
, and ma mast	R&S	ESH3-Z2	102750-NB	2024-06-06	2025-06-05
	Artificial Mains 10dB Attenuator EMI Test Software Antenna Mast Pulse Limiter	Artificial Mains R&S 10dB Attenuator SCHWARZBECK EMI Test Software Farad Antenna Mast Max-Full Pulse Limiter R&S	Artificial Mains R&S ENV216 10dB Attenuator SCHWARZBECK MTS-IMP-136 EMI Test Software Farad EZ Antenna Mast Max-Full MFA-515BSN Pulse Limiter R&S ESH3-Z2	Artificial Mains R&S ENV216 101288 10dB Attenuator SCHWARZBECK MTS-IMP-136 261115-001-0032 EMI Test Software Farad EZ / Antenna Mast Max-Full MFA-515BSN 1308572	Artificial Mains R&S ENV216 101288 2024-06-06 10dB Attenuator SCHWARZBECK MTS-IMP-136 261115-001-0032 2024-06-06 EMI Test Software Farad EZ / N/A Antenna Mast Max-Full MFA-515BSN 1308572 N/A Pulse Limiter R&S ESH3-Z2 102750-NB 2024-06-06











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7. TEST SETUP PHOTOGRAPHS OF EUT

Please refer to separated files for Test Setup Photos of the EUT.

8. EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

9. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF REPORT-----

