



FCC PART 15C REPORT FOR CERTIFICATION On Behalf of

Shenzhen KingChuang Smart Navi Technology Co.,Ltd.

Robot Vacuum Cleaner

Model Number: SL68

Additional Model:

SL40,SL68 Plus,SL68 Plus+,SL68 Pro,SL68 Pro+,SL68 Max,SL68 Max+,SL68 Pure,
SL68 Ultra,SL68 MaxV,B12,B12 Plus,B12 Plus+,B12 Pro,B12 Pro+,B12 Max,B12 Max+,
B12 Pure,B12 Ultra,B12 MaxV,SL40A,SL40B,SL40C SL40D,SDL40,SDL40A,SDL40B,
SDL40C,SDL40D,Mars01,Mars01 Pro,Mars01 Nex,V9,V9 Pro,V9 SE,M500L,L9S,L8000,
L8000 Pro,L8500,L8500 Pro,L8000 Plus,L8000 Pro Plus,L8500 Plus,L8500 Pro Plus,
L8000 +,L8000 Pro +,L8500 +,L8500 Pro +,V-RVCLM40A

FCC ID: 2BA3GKFTYRM24

Applicant :	Shenzhen KingChuang Smart Navi Technology Co.,Ltd.
Address:	Building 10, Furong Industrial Zone, 177 Furong Avenue, Xinqiao Street, Baoan District, Shenzhen, China
Prepared By:	EST Technology Co., Ltd.
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China
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Report Number:	ESTE-R2309160-2
Date of Test:	Jan. 12~29, 2024
Date of Report:	Jan. 31, 2024

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Applicant/ Manufacturer: Address:	Shenzhen KingChuang Smart Navi Technology Co.,Ltd. Building 10, Furong Industrial Zone, 177 Furong Avenue, Xinqiao Street, Baoan District, Shenzhen, China		
Factory: Address:	Shenzhen KingChuang Smart Navi Technology Co.,Ltd. Building 10, Furong Industrial Zone, 177 Furong Avenue, Xinqiao Street, Baoan District, Shenzhen, China		
E.U.T:	Robot Vacuum Cleaner		
Model Number:	SL68		
Additional Model:	SL40,SL68 Plus,SL68 Plus+,SL68 Pro,SL68 Pro+,SL68 Max, SL68 Max+,SL68 Pure,SL68 Ultra,SL68 MaxV,B12,B12 Plus, B12 Plus+,B12 Pro,B12 Pro+,B12 Max,B12 Max+,B12 Pure, B12 Ultra,B12 MaxV,SL40A,SL40B,SL40C SL40D,SDL40,SDL40A, SDL40B,SDL40C,SDL40D,Mars01,Mars01 Pro,Mars01 Nex,V9,V9 Pro, V9 SE,M500L,L9S,L8000, L8000 Pro,L8500,L8500 Pro,L8000 Plus, L8000 Pro Plus,L8500 Plus,L8500 Pro Plus,L8000 +,L8000 Pro +, L8500 +,L8500 Pro +,V-RVCLM40A Note: They are identical except model name.		
Power Supply:	DC 14.4V From Battery DC 19V From Adapter Input AC 100-240V, 50/60Hz AC 100-240V, 50/60Hz for collecting dust bucket		
Trade Name:	-----	Serial No.:	-----
Date of Receipt:	Jan. 12, 2024	Date of Test:	Jan. 12~29, 2024
Test Specification:	FCC Part 15 Subpart C (15.247) ANSI C63.10:2013 FCC KDB 558074 D01 15.247 Meas Guidance v05r02		
Test Result:	The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.		

Prepared by:

Reviewed by:

Date: Jan. 31, 2024

Approved by:

Ring Yang / Assistant

Seven Wang / Engineer

Iceman Hu / Manager

Other Aspects: This report base on the previous report with report number: ESTE-R2309160-1, Add models, batteries, fans, air pumps, motor and dust buckets to the report, so just re-tested spurious emissions (30-1000MHz) and conducted emissions, other test item needn't re-tested.

Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested

This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	Robot Vacuum Cleaner
Model Number	:	SL68
Software Version	:	N/A
Hardware Version	:	N/A
Operation frequency	:	2412MHz~2462MHz 2422MHz~2452MHz
Number of channel	:	IEEE 802.11b/g/n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels
Modulation Type	:	DSSS OFDM
Sample Type	:	Prototype production

Note: For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

1.2. Antenna Information

Ant No.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	-	-	Internal	-	4.5

Note:

- 1.The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.
- 2.The test results of this report only apply to the sample as received.

1.3. Information of RF Cable

Cable Loss(dB)	Provided by
1.0	Shenzhen KingChuang Smart Navi Technology Co.,Ltd.

Note:

- 1.The customer declared the loss value of the RF Cable. and the test results of this report only apply to the sample as received.
- 2.The laboratory is not responsible for the accuracy of the cable loss.

2.SUMMARY OF TEST

2.1.Summary of test result

No.	Description of Test Item	FCC Standard Section	Results
1	6dB Bandwidth	15.247(a)(2)	N/A
2	Maximum Peak Output Power	15.247(b)(3)	N/A
3	Power Spectral Density	15.247(e)	N/A
4	Conducted Band Edge	15.247(d)	N/A
5	Conducted Spurious Emissions	15.247(d)	N/A
6	Radiated Spurious Emissions and Band Edge	15.205 15.209 15.247(d)	PASS
7	AC Power Line Conducted Emissions	15.207	PASS
8	Antenna Requirement	15.203	N/A

Note:“N/A” denotes test is not applicable in this test report.

2.2. Test Facilities

EMC Lab : Accredited by CNAS, CHINA
Registration No.: L5288
This Accreditation is valid until: November 12, 2029

Recognized by FCC, USA
Designation Number: CN1215
This Recognition is valid until: February 29, 2024

Accredited by A2LA, USA
Registration No.: 4366.01
This Accreditation is valid until: February 29, 2024

Recognized by Industry Canada
CAB identifier No.: CN0035
This Recognition is valid until: February 29, 2024

Recognized by VCCI, Japan
Registration No.: C-14103; T-20073; R-13663;
R-20103; G-20097
Date of registration: Apr. 20, 2020
This Recognition is valid until: Apr. 19, 2026

Recognized by TUV Rheinland, Germany
Registration No.: UA 50413872 0001
Date of registration: July 31, 2018

Recognized by Intertek
Registration No.: 2011-RTL-L2-64
Date of registration: November 08, 2018

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan,
Guangdong, China

2.3.Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	±3.48dB
Uncertainty for spurious emissions test (Below 30MHz)	±1.62 dB
Uncertainty for spurious emissions test (30MHz-1GHz)	±4.60 dB(Polarize: H)
	±4.68 dB(Polarize: V)
Uncertainty for spurious emissions test (1GHz to 25GHz)	±4.96dB
Uncertainty for radio frequency	7×10^{-8}
Uncertainty for conducted RF Power	1.08dB
Uncertainty for Power density test	0.26dB

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

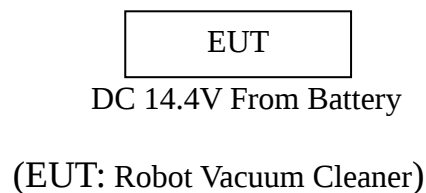
2.4.Assistant equipment used for test

Item	Equipment	Brand	Model Name/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	-

2.5.Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 (or 1.5) meter high above ground. EUT was beset into 2.4G WIFI test mode by software before test.



2.6. Test Mode

The test mode was selected for the final test as listed below.

Test Item	Mode	Date Rate	Test Channel
Radiated Spurious Emissions(Below 1GHz)	IEEE 802.11b	1Mbps	Low/Middle/High
	IEEE 802.11g	6Mbps	Low/Middle/High
	IEEE 802.11n HT20	MCS0	Low/Middle/High
	IEEE 802.11n HT40	MCS0	Low/Middle/High
AC Power Line Conducted Emissions	IEEE 802.11b	1Mbps	Low/Middle/High
	IEEE 802.11g	6Mbps	Low/Middle/High
	IEEE 802.11n HT20	MCS0	Low/Middle/High
	IEEE 802.11n HT40	MCS0	Low/Middle/High

Note: In radiated measurement, the EUT had been pre-scan on the positioned of each 3 axis(X,Y,Z), the worst case was found when positioned on **X-plane**.

2.7. Power Setting of Test Software

Software Name	CMD		
Frequency(MHz)	2412	2437	2462
IEEE 802.11b Setting	35	35	35
IEEE 802.11g Setting	35	35	35
IEEE 802.11n HT20 Setting	35	35	35
Frequency(MHz)	2422	2437	2452
IEEE 802.11n HT40 Setting	35	35	35

Note: This information is provided by the applicant.

2.8.Channel List

IEEE 802.11b/802.11g/802.11n HT20					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	6	2437	11	2462
2	2417	7	2442		
3	2422	8	2447		
4	2427	9	2452		
5	2432	10	2457		
IEEE 802.11n HT40					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	6	2437	9	2452
4	2427	7	2442		
5	2432	8	2447		

2.9. Test Equipment List

For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	EST-E001	LISAI	June 12,23	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E002	LISAI	June 12,23	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

For radiated emission test(9kHz-30MHz)

Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 12,23	1 Year
Active Loop Antenna	SCHWABE BECK	FMZB 1519B	EST-E054	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
9kHz-30MHz Cable	N/A	EST-001	N/A	N/A	N/A	N/A

For radiated emissions test (30MHz-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 12,23	1 Year
Bilog Antenna	Tesseq	CBL 6111D	EST-E034	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
30-1000MHz Cable	N/A	EST-002	N/A	N/A	N/A	N/A

3.RADIATED SPURIOUS EMISSIONS AND BAND EDGE

3.1.Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
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	322 - 335.4	3600 - 4400	(²)

15.209 Limit

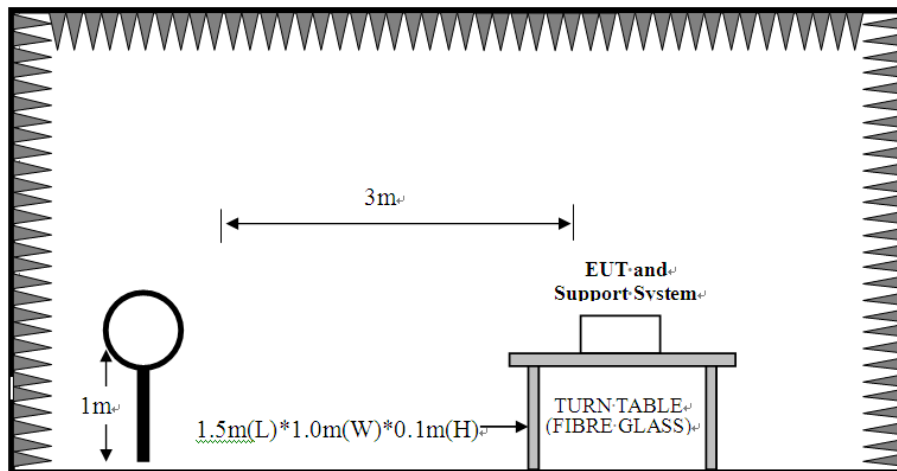
Frequency (MHz)	Field Strength(μ V/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

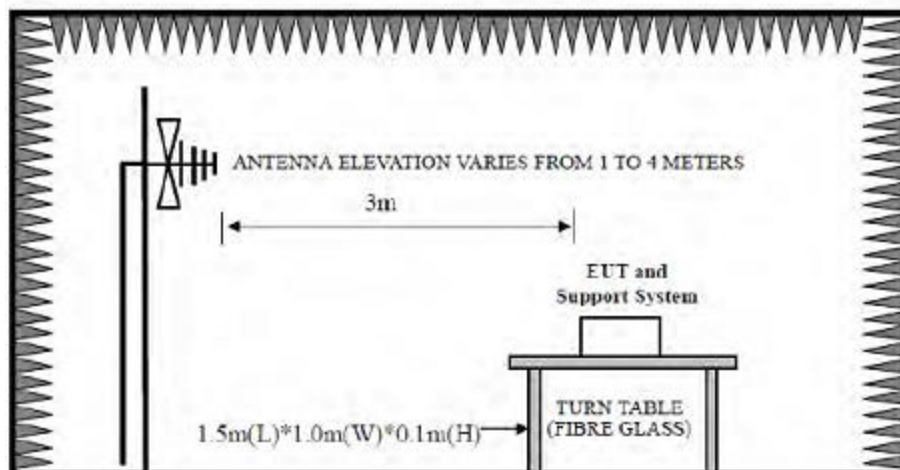
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$.
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

3.2. Test Setup

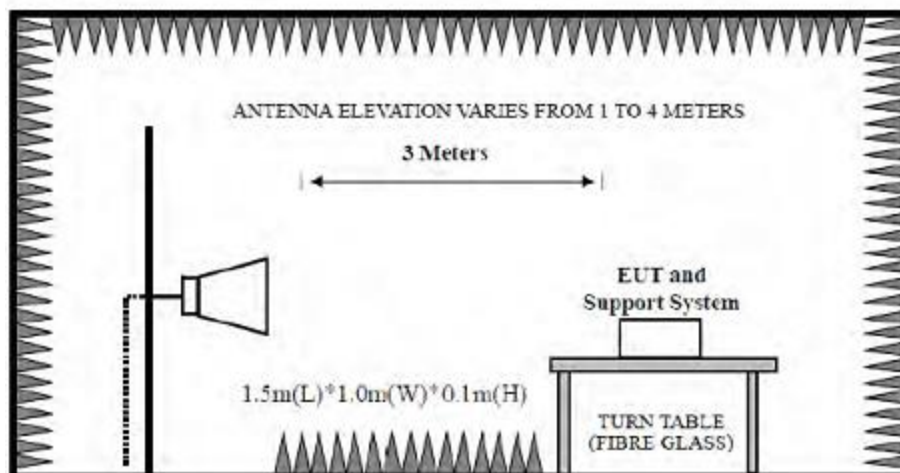
9kHz~30MHz



30~1000MHz



Above 1GHz



3.3.Spectrum Analyzer Setting

For 9KHz-150KHz

Spectrum Parameters	Setting
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
Start frequency	9KHz
Stop frequency	150KHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

For 150KHz-30MHz

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For 30MHz-1GHz

Spectrum Parameters	Setting
RBW	120KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For Above 1GHz

Spectrum Parameters	Setting	
RBW	1MHz	
VBW	PEAK Measurement	AVG Measurement
	3MHz	Duty cycle≥98%,VBW=10Hz
		Duty cycle<98%,VBW≥1/T
Start frequency	1GHz	
Stop frequency	25GHz	
Sweep Time	Auto	
Detector	PEAK	
Trace Mode	Max Hold	

Note :T is the on-time time of the duty cycle,when EUT transmit continuously with maximum output power,unit is seconds. reference section 2.8 for the on-time time.

3.4. Test Procedure

- a. EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
- b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- c. Set the EUT transmit continuously with maximum output power.
- d. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- e. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- f. Spectrum analyzer setting parameters in accordance with section 8.3.
- g. Repeat above procedures until all channels were measured.
- h. Record the results in the test report.

Note:

1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
2. The frequency 2412MHz/2422MHz/2437MHz/2452MHz/2462MHz are fundamental frequency, which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

3.5. Test Result

Radiated Emissions Below 1GHz

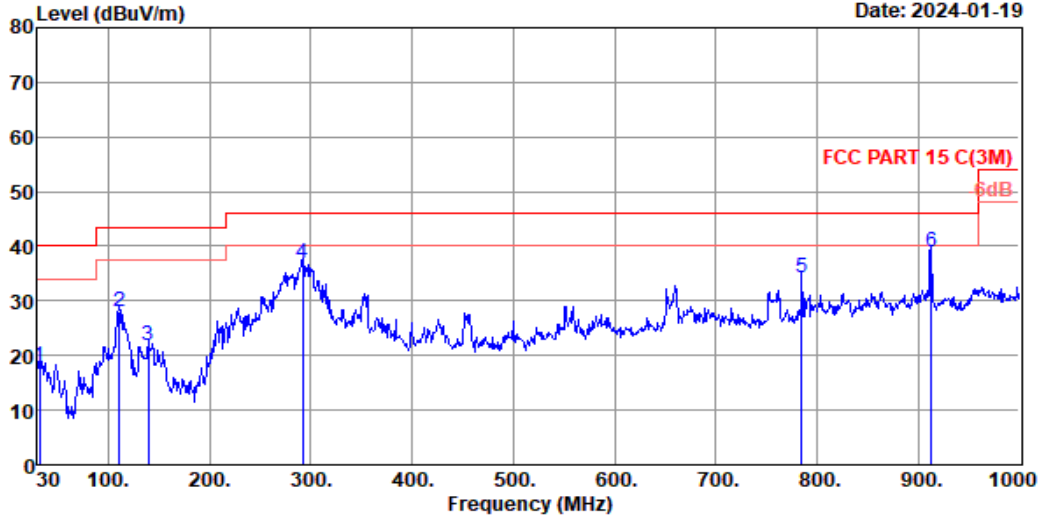
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Data: 17

File: \\EMC-966-1\test data\2024\RF\Jing chuang zhi hang\SL68.EM6 (18)

Date: 2024-01-19



Site no. : 1# 966 Chamber Data no. : 17
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : FCC PART 15 C(3M)
Env. / Ins. : Temp:23.9°C;Humi:53.5%;Press:101.82KPa
Engineer : DCY
EUT : Robot Vacuum Cleaner
Power : DC 14.4V From Battery
M/N : SL68
Test Mode : TX Mode
Battery:CMICR18650F9M-4S1P
Draught fan:QYC20A16F-53
Air pump:JFB1518083

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.94	17.80	0.73	-0.54	17.99	40.00	22.01	QP
2	110.51	10.95	1.48	15.73	28.16	43.50	15.34	QP
3	139.61	12.80	1.69	7.24	21.73	43.50	21.77	QP
4	291.90	13.60	2.58	20.70	36.88	46.00	9.12	QP
5	784.66	22.30	4.46	7.40	34.16	46.00	11.84	QP
6	912.70	25.34	4.87	8.77	38.98	46.00	7.02	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

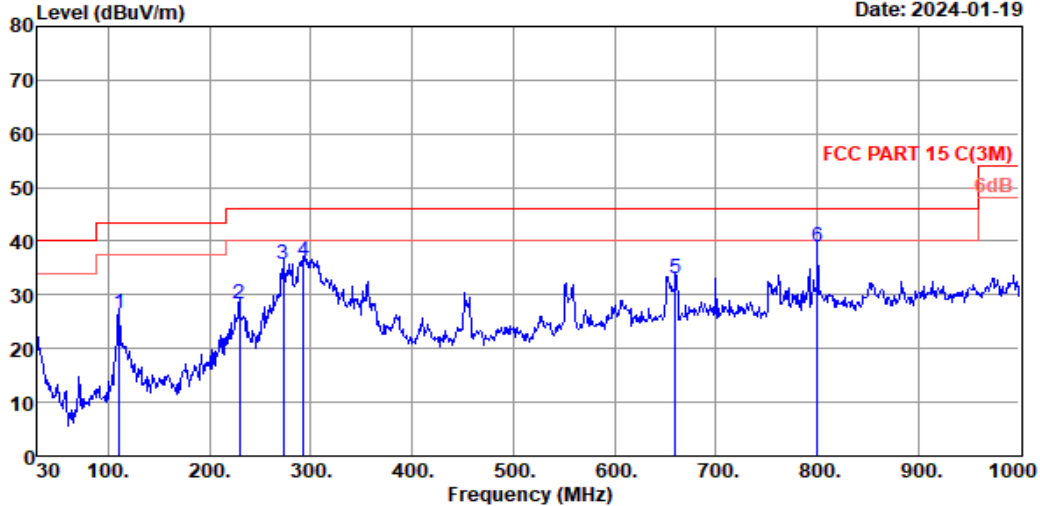
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Fax: +86-769-83081878

Data: 18

File: \\EMC-966-1\test data\2024\RF\Jing chuang zhi hang\SL68.EM6 (18)

Date: 2024-01-19



Site no. : 1# 966 Chamber Data no. : 18
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C(3M)
Env. / Ins. : Temp:23.9°C;Humi:53.5%;Press:101.82KPa
Engineer : DCY
EUT : Robot Vacuum Cleaner
Power : DC 14.4V From Battery
M/N : SL68
Test Mode : TX Mode
Battery:CMICR18650F9M-4S1P
Draught fan:QYC20A16F-53
Air pump:JFB1518083

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	110.51	10.95	1.48	14.00	26.43	43.50	17.07	QP
2	229.82	10.80	2.21	15.40	28.41	46.00	17.59	QP
3	272.50	13.45	2.46	19.71	35.62	46.00	10.38	QP
4	292.87	13.50	2.59	20.22	36.31	46.00	9.69	QP
5	660.50	21.30	4.06	7.62	32.98	46.00	13.02	QP
6	800.18	23.20	4.51	11.39	39.10	46.00	6.90	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Note:

1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All channels had been pre-test, only the worst case was reported.

4.AC POWER LINE CONDUCTED EMISSIONS

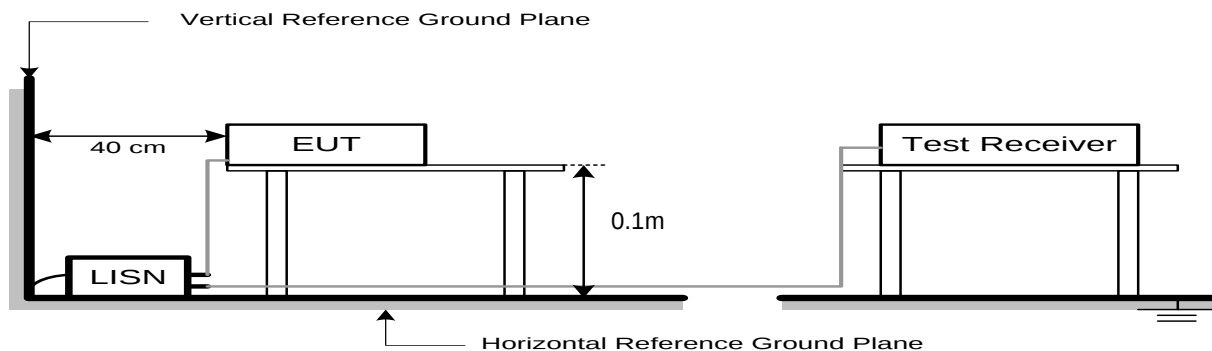
4.1.Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Note:

1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

4.2.Test Setup



4.3.Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP/AVG
Trace Mode	Max Hold

4.4.Test Procedure

- a. The EUT was placed on a non-metallic table, 0.1m above the ground plane.
- b. The EUT Power connected to the power mains through a line impedance stabilization network.
- c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- d. Set the EUT transmit continuously with maximum output power.
- e. Spectrum analyzer setting parameters in accordance with section 9.3.
- f. The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

g. Record the results in the test report.

4.5.Test Result

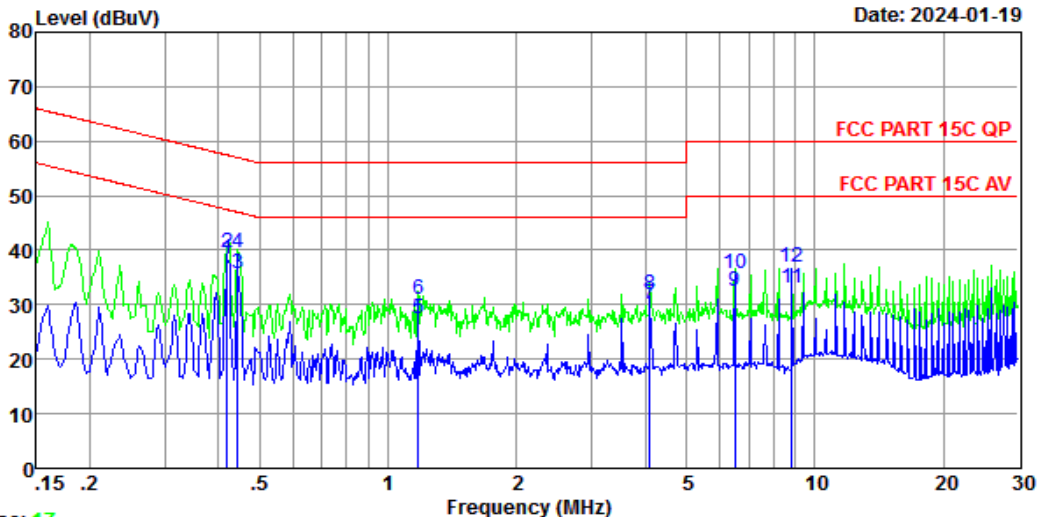
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Fax:+86-769-83081878

Data: 18

File: \\EMC-CE1\Test data\2024\RF\Jing chuang zhi hang\SL68.EM6 (32)

Date: 2024-01-19



Site no : 1#CE Shield Room Data no. : 18
Env. / Ins. : Temp:21.8C;Humi:50.8%;Press:101.50kPa LINE Phase : LINE
Limit : FCC PART 15C QP
Engineer : GGZ
EUT : Robot Vacuum Cleaner
Power : AC 120V/60Hz
M/N : SL68
Test Mode : TX Mode
Dust collector:SD80
Battery:CMICR18650F9M-4S1P
Draught fan:QYC20A16F-53
Air pump:JFB1518083

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.42	10.20	9.91	18.13	38.24	47.46	9.22	Average
2	0.42	10.20	9.91	19.48	39.59	57.46	17.87	QP
3	0.44	10.21	9.91	15.73	35.85	46.98	11.13	Average
4	0.44	10.21	9.91	19.47	39.59	56.98	17.39	QP
5	1.18	10.48	9.92	7.09	27.49	46.00	18.51	Average
6	1.18	10.48	9.92	10.63	31.03	56.00	24.97	QP
7	4.11	10.41	9.90	9.81	30.12	46.00	15.88	Average
8	4.11	10.41	9.90	11.69	32.00	56.00	24.00	QP
9	6.49	10.43	9.88	12.18	32.49	50.00	17.51	Average
10	6.49	10.43	9.88	15.47	35.78	60.00	24.22	QP
11	8.82	10.47	9.88	12.57	32.92	50.00	17.08	Average
12	8.82	10.47	9.88	16.51	36.86	60.00	23.14	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

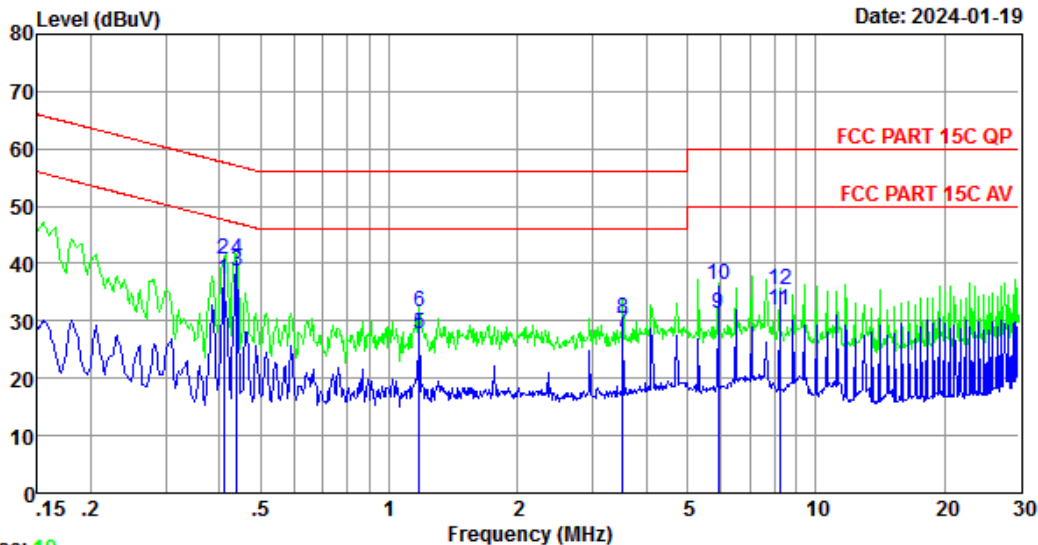
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 20

File: \\EMC-CE1\Test data\2024\RF\Jing chuang zhi hang\SL68.EM6 (32)

Date: 2024-01-19



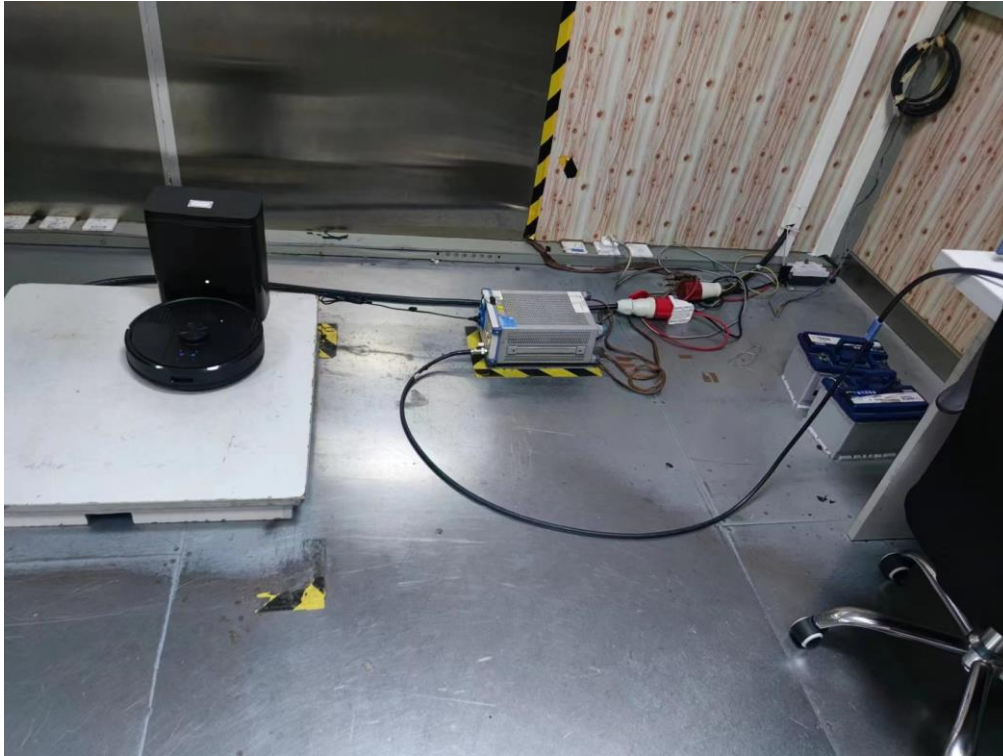
Site no : 1#CE Shield Room Data no. : 20
Env. / Ins. : Temp:21.8C;Humi:50.8%;Press:101.50kPa LINE Phase : NEUTRAL
Limit : FCC PART 15C QP
Engineer : GGZ
EUT : Robot Vacuum Cleaner
Power : AC 120V/60Hz
M/N : SL68
Test Mode : TX Mode
Dust collector:SD80
Battery:CMICR18650F9M-4S1P
Draught fan:QYC20A16F-53
Air pump:JFB1518083

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.41	10.25	9.91	17.11	37.27	47.64	10.37	Average
2	0.41	10.25	9.91	20.53	40.69	57.64	16.95	QP
3	0.44	10.24	9.91	18.62	38.77	47.07	8.30	Average
4	0.44	10.24	9.91	20.52	40.67	57.07	16.40	QP
5	1.18	10.10	9.92	7.60	27.62	46.00	18.38	Average
6	1.18	10.10	9.92	11.55	31.57	56.00	24.43	QP
7	3.53	10.01	9.91	8.26	28.18	46.00	17.82	Average
8	3.53	10.01	9.91	10.53	30.45	56.00	25.55	QP
9	5.90	10.01	9.88	11.38	31.27	50.00	18.73	Average
10	5.90	10.01	9.88	16.42	36.31	60.00	23.69	QP
11	8.24	10.05	9.87	11.96	31.88	50.00	18.12	Average
12	8.24	10.05	9.87	15.42	35.34	60.00	24.66	QP

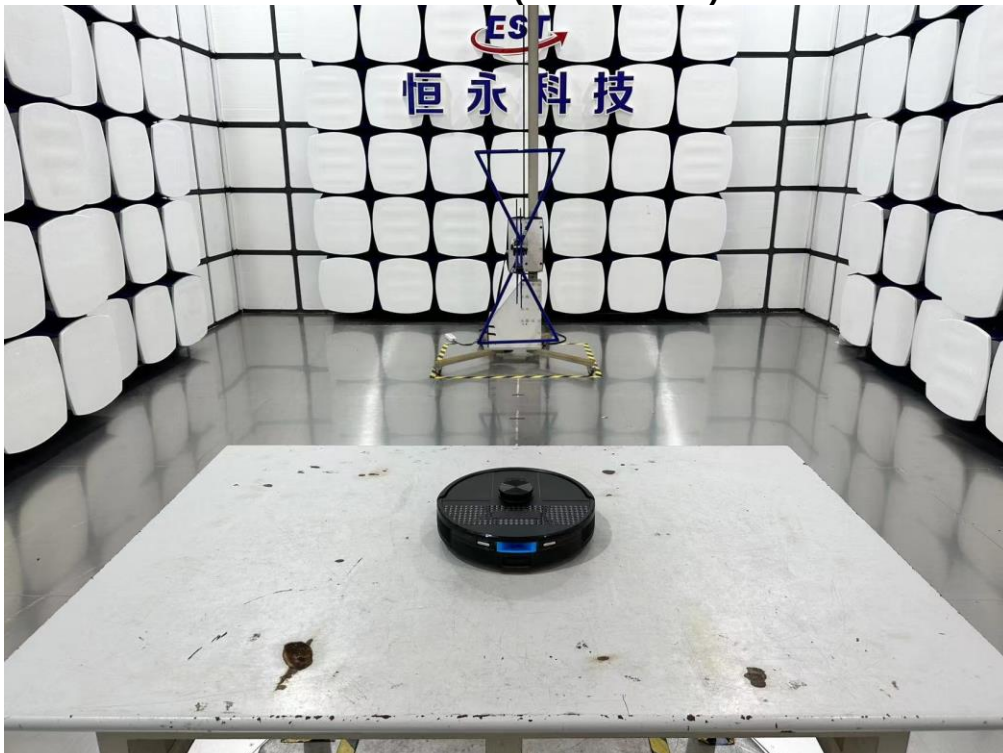
Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

5. TEST SETUP PHOTO

Conducted Test

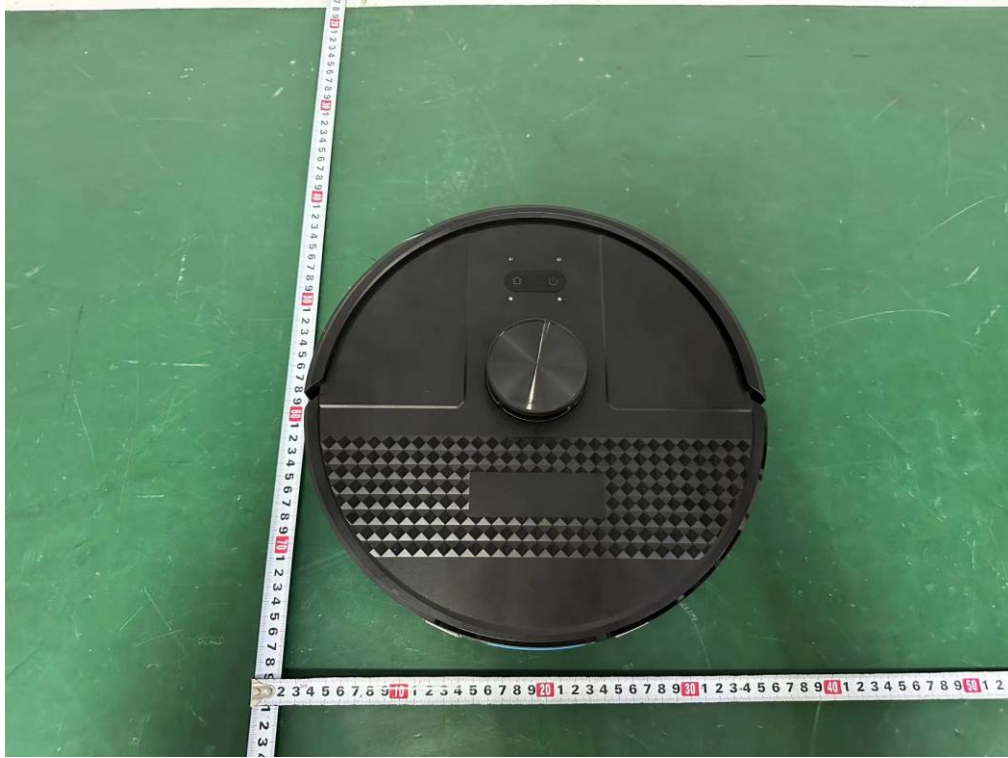


Radiated Test (Below 1GHz)



6. EUT PHOTO

External Photos M/N: SL68



External Photos

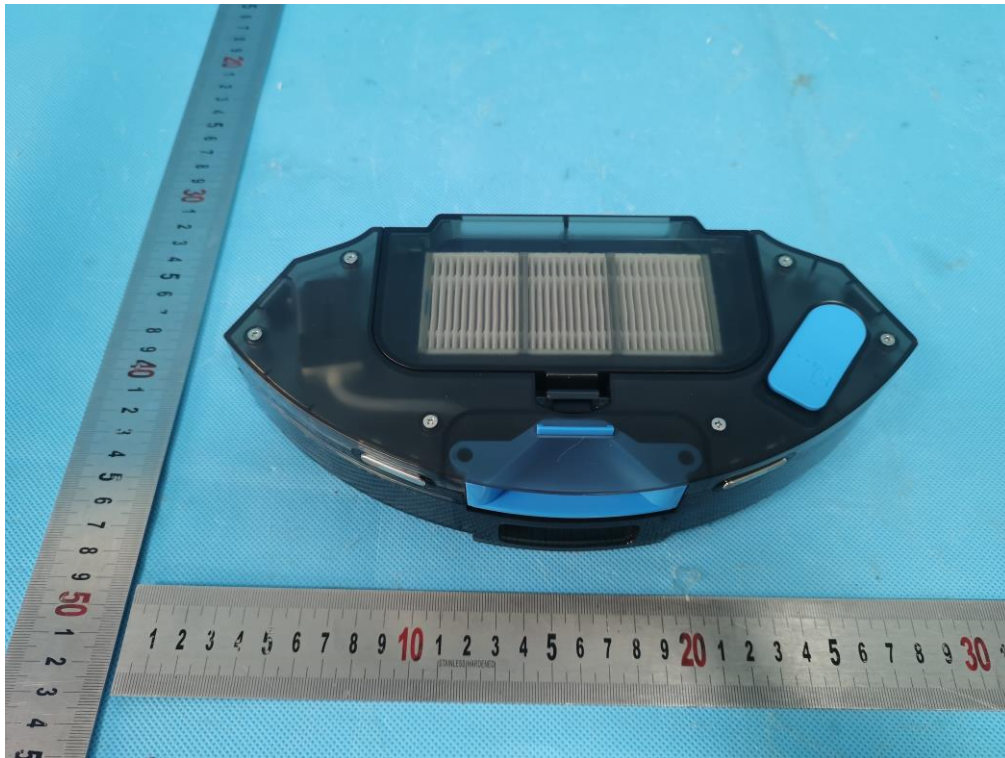
M/N: SL68



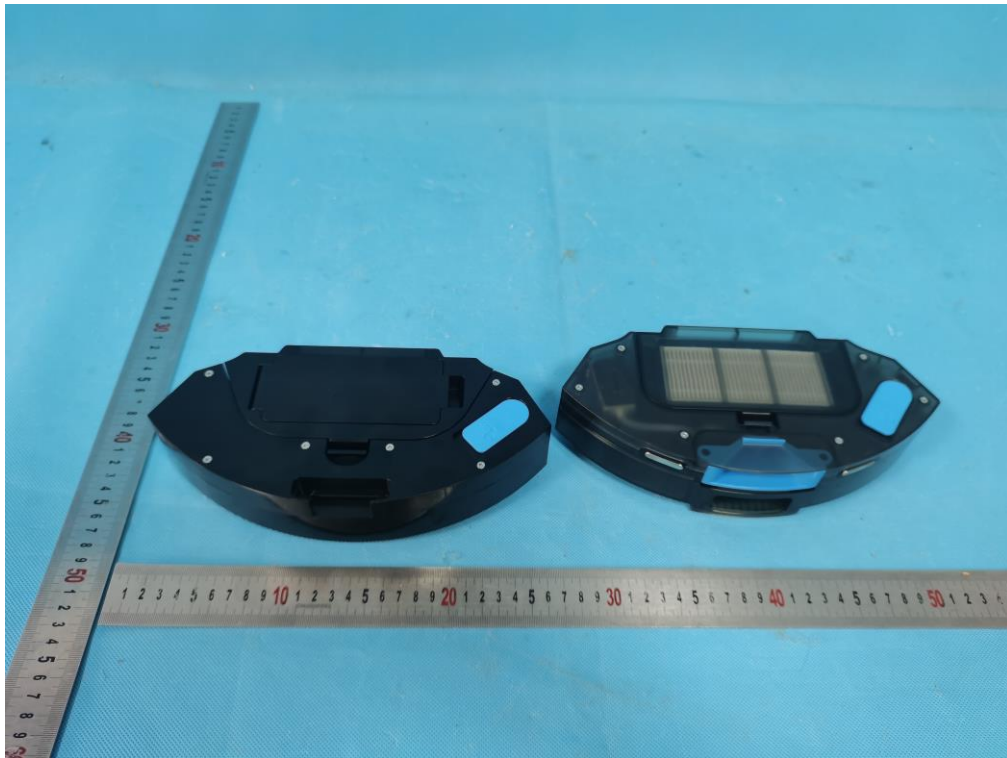
External Photos
M/N: SL68



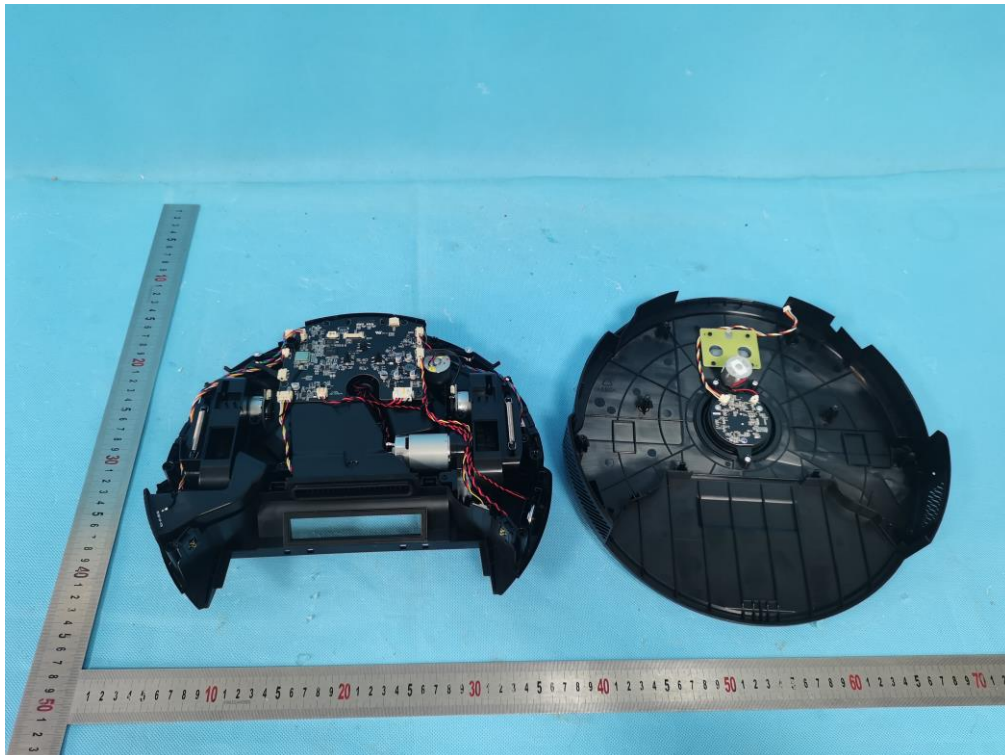
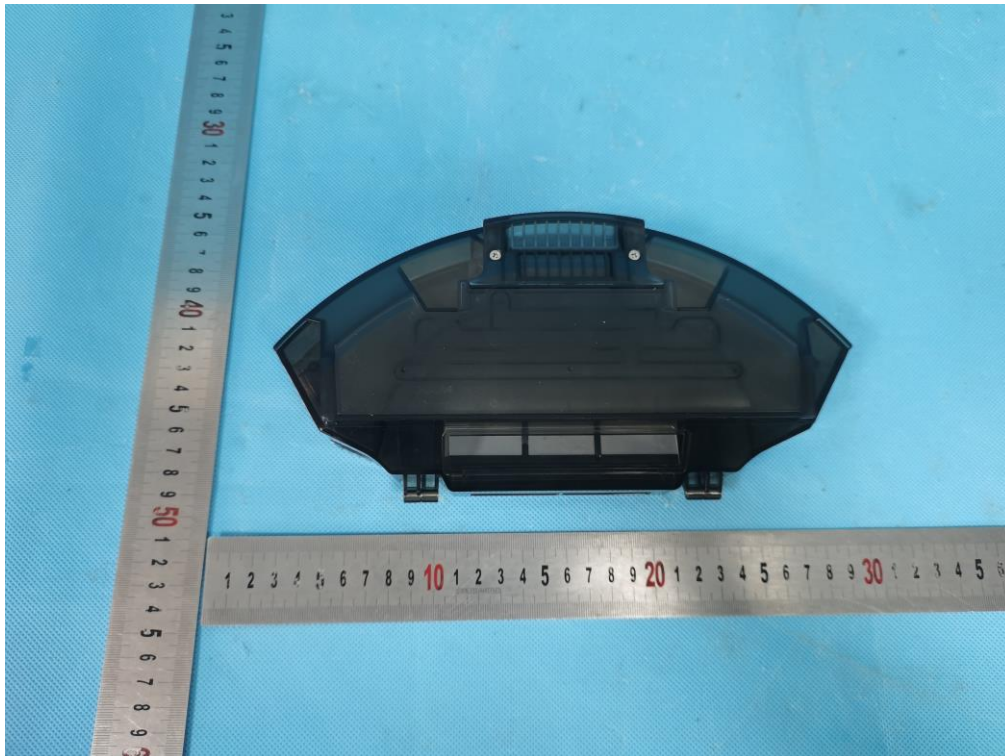
Internal Photos
M/N: SL68



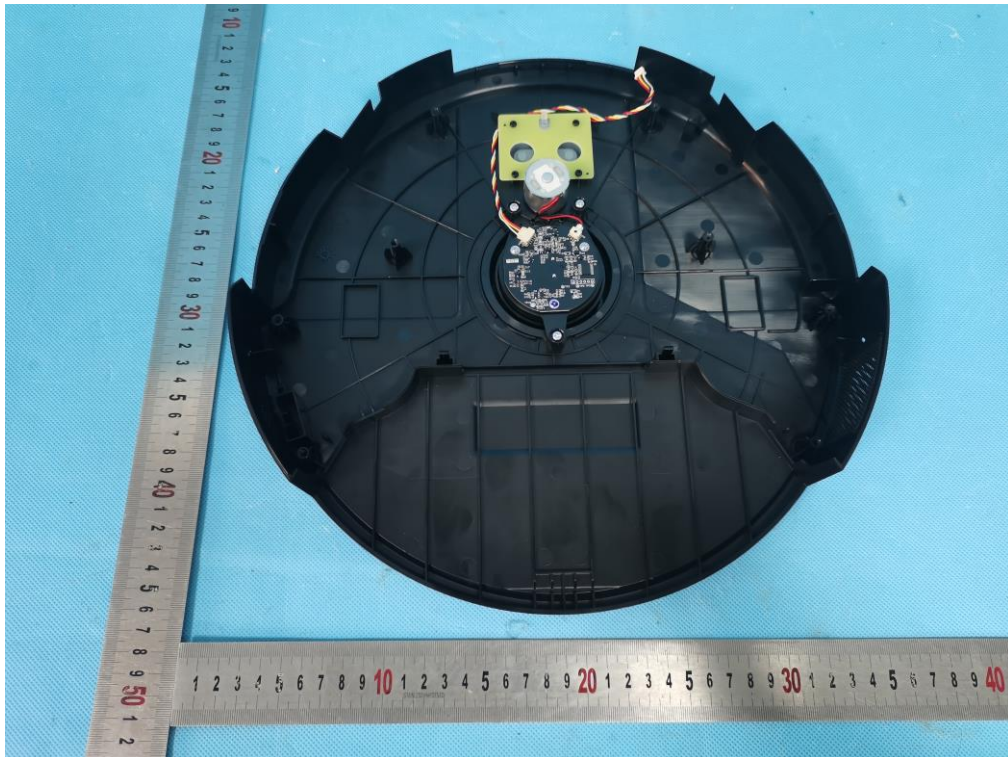
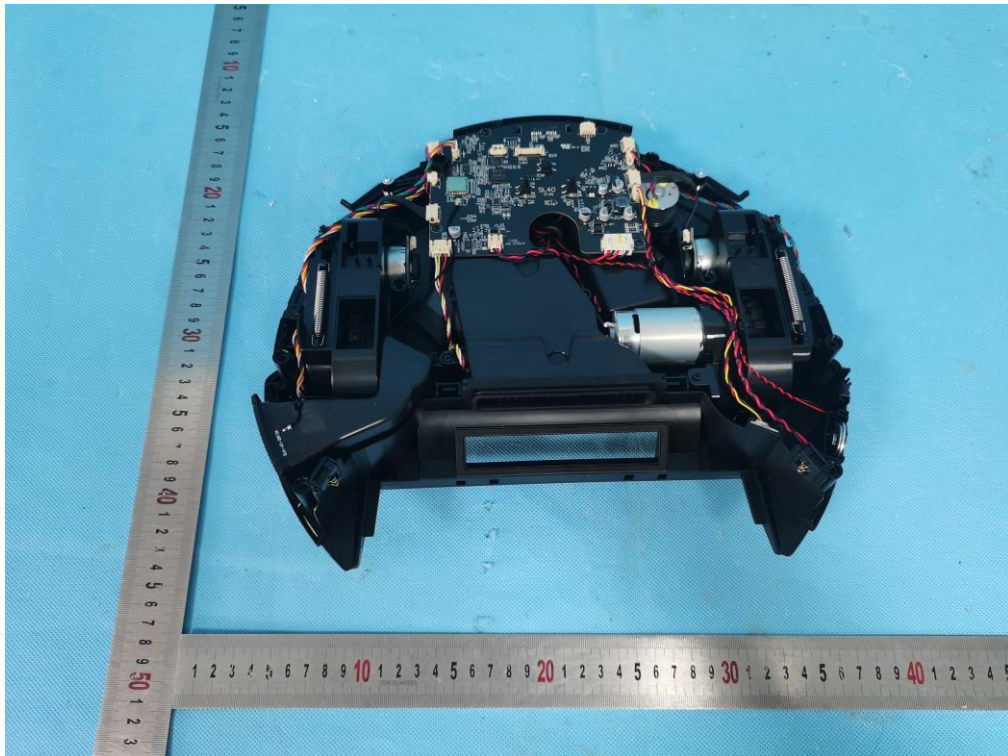
Internal Photos
M/N: SL68



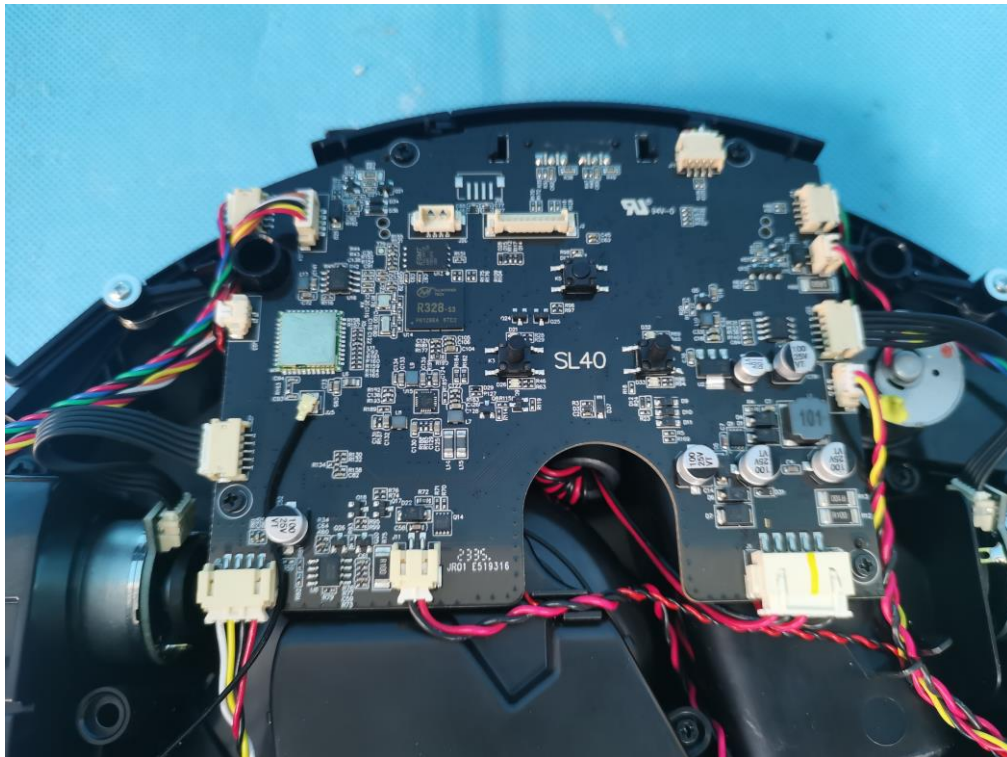
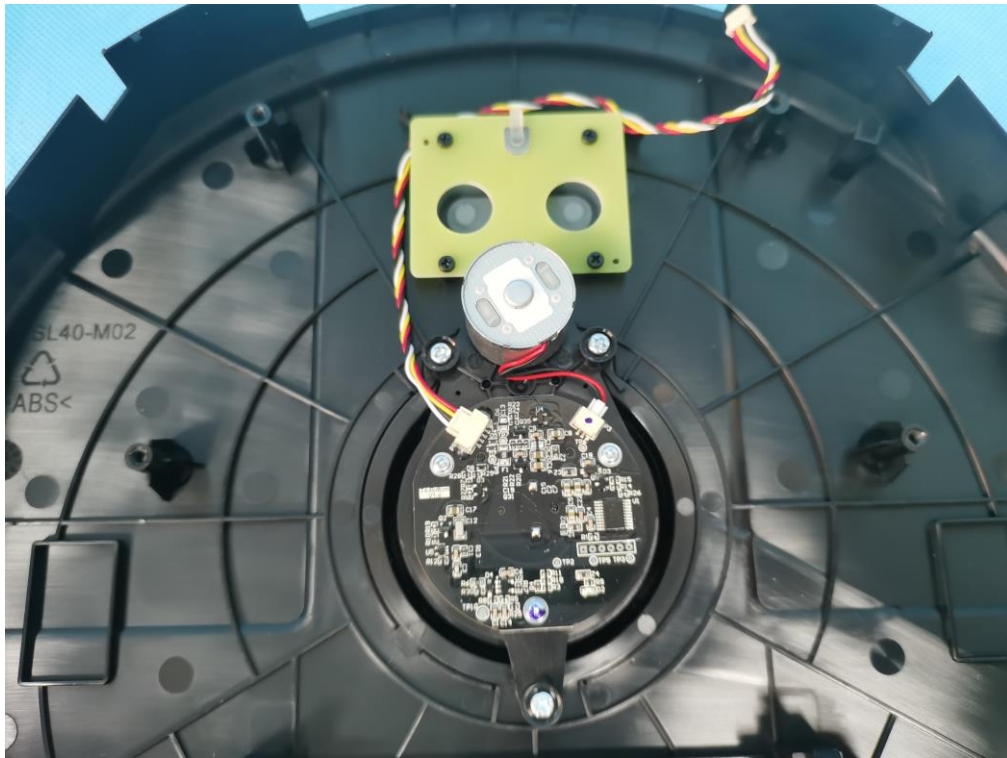
Internal Photos
M/N: SL68



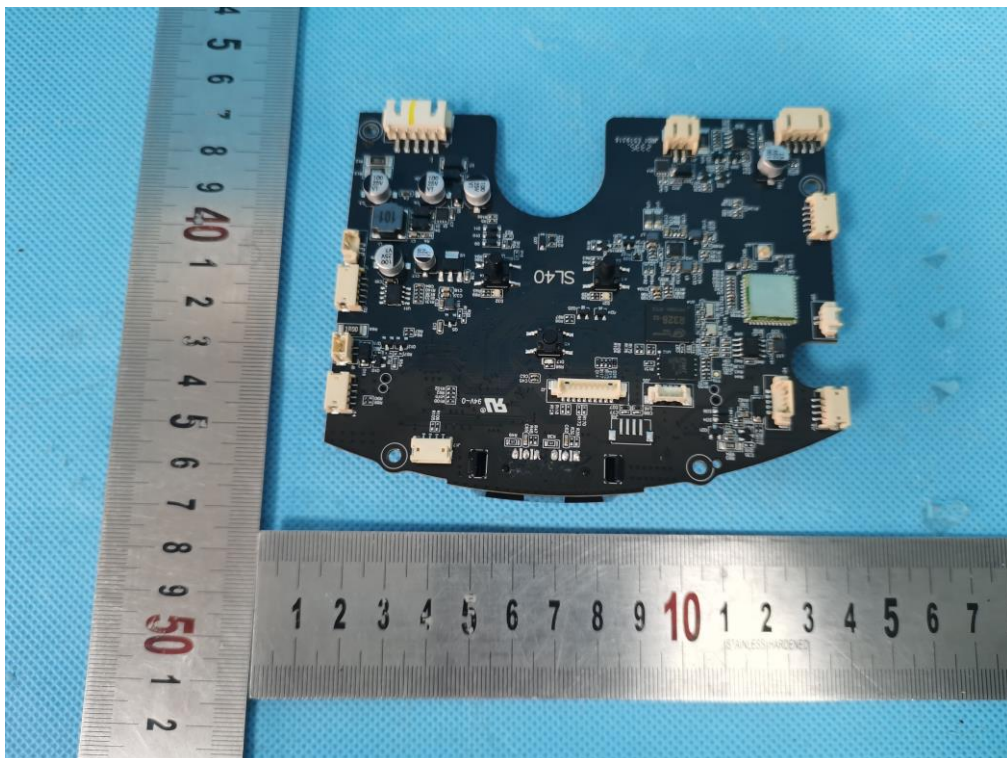
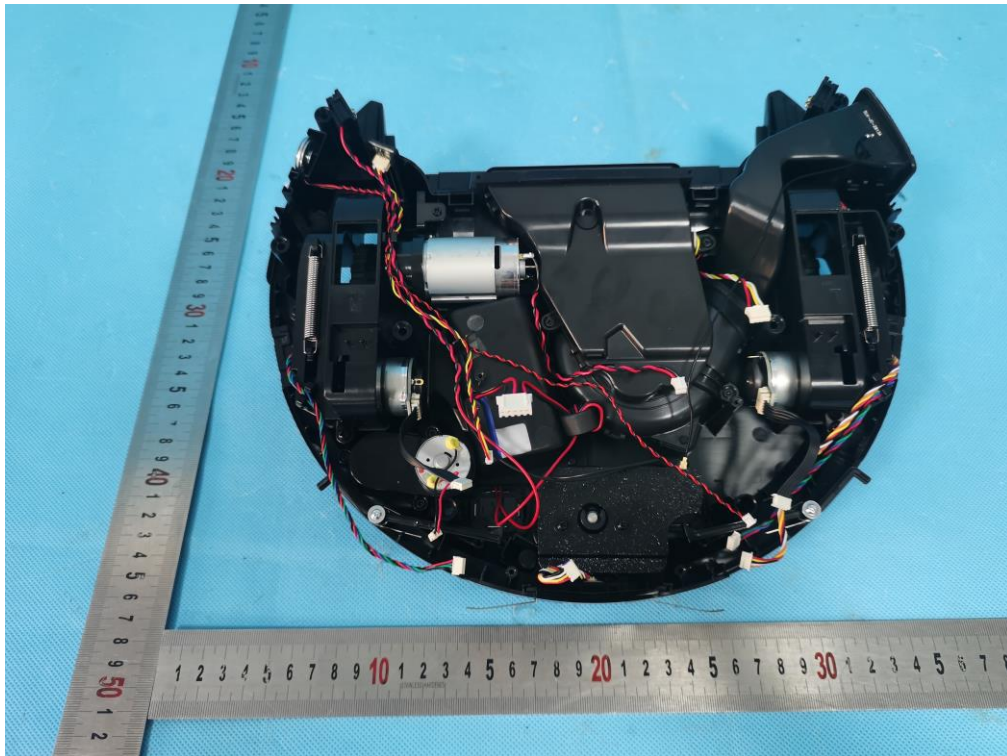
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M/N: SL68



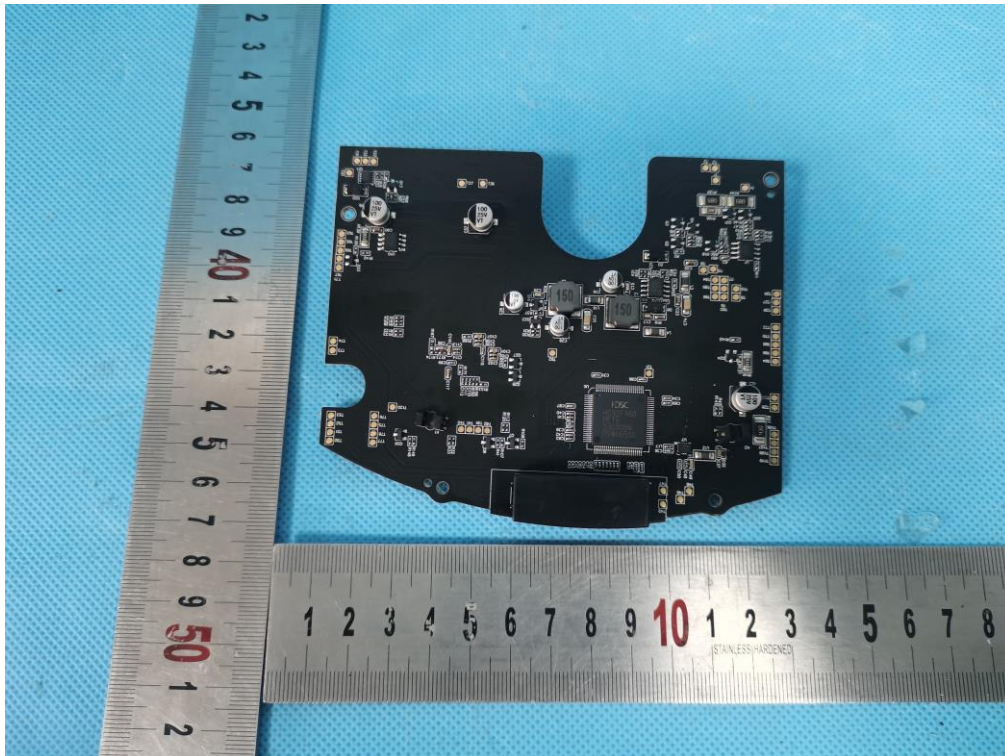
Internal Photos
M/N: SL68



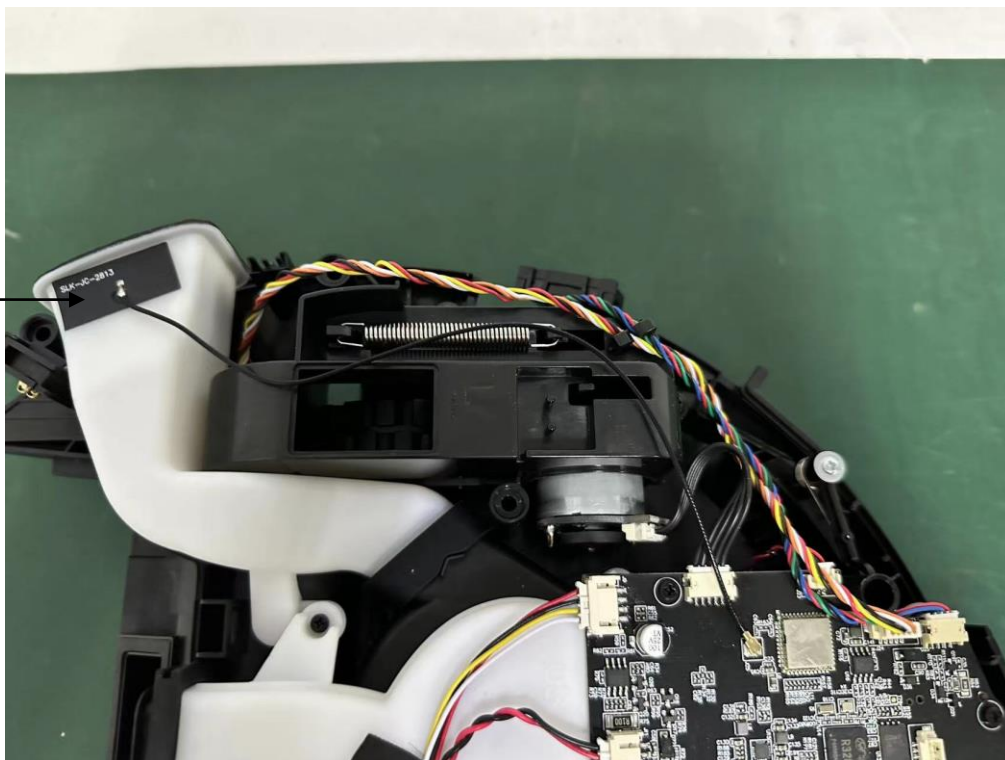
Internal Photos
M/N: SL68



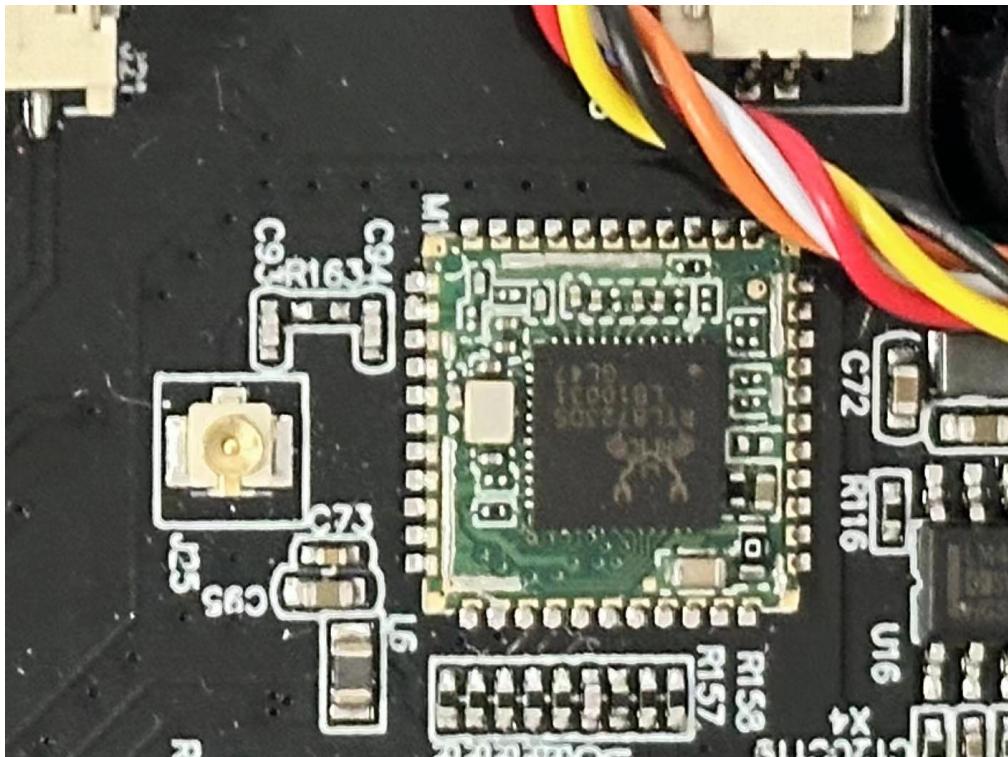
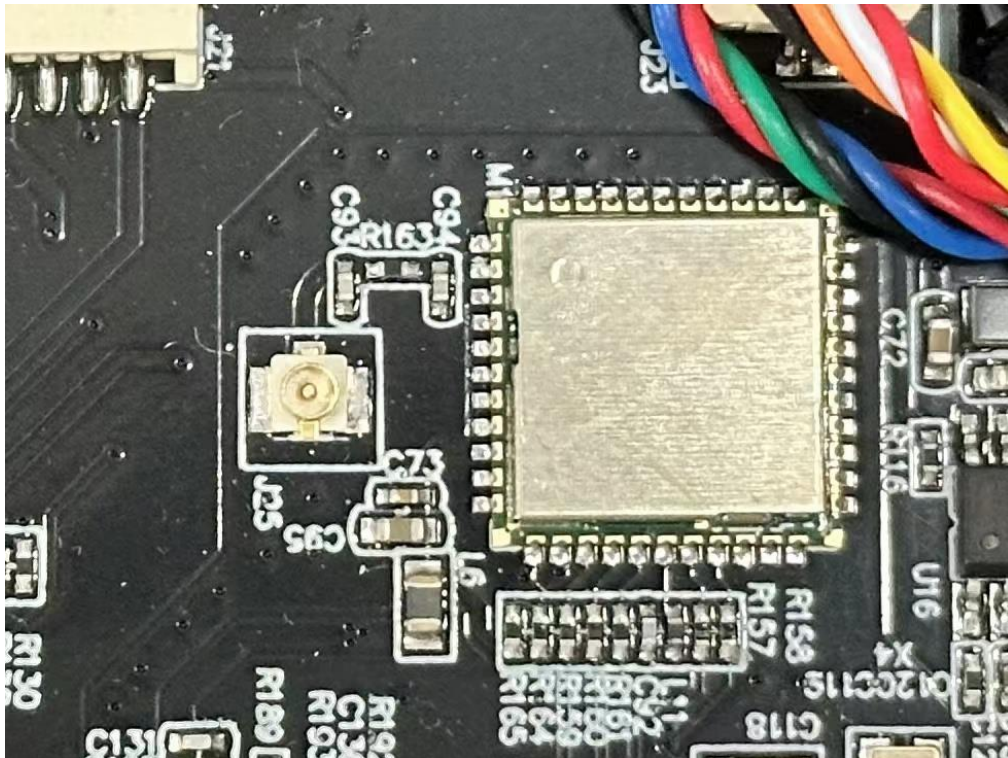
Internal Photos
M/N: SL68



Bluetooth
Antenna



Internal Photos
M/N: SL68



External Photos
M/N: SL68



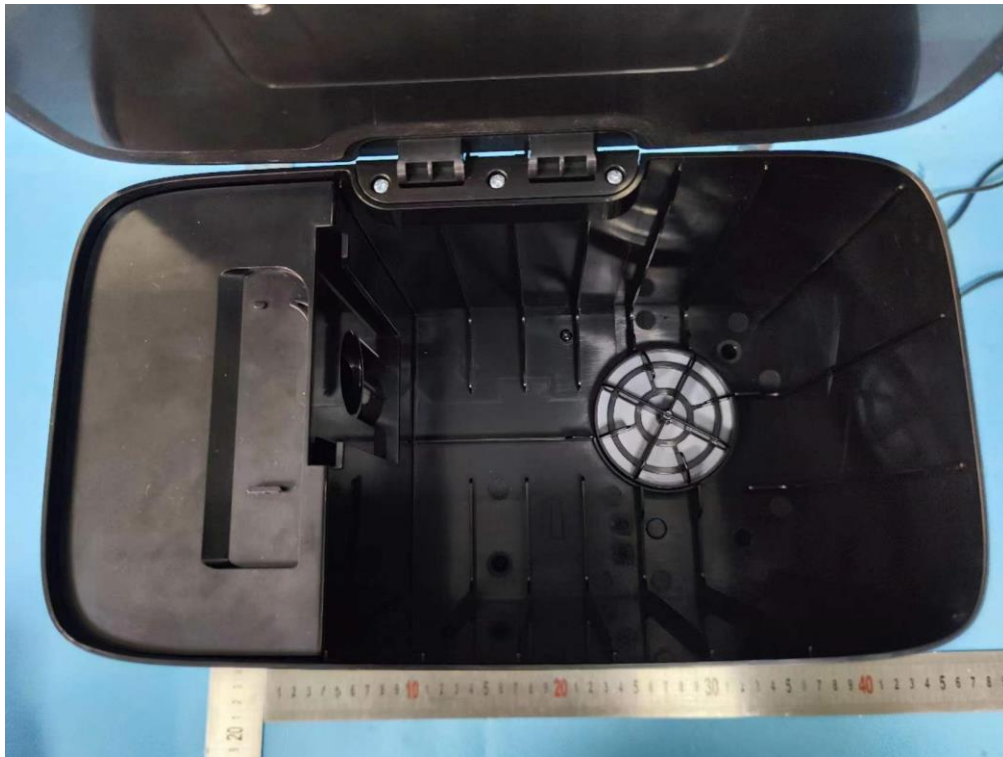
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M/N: SL68



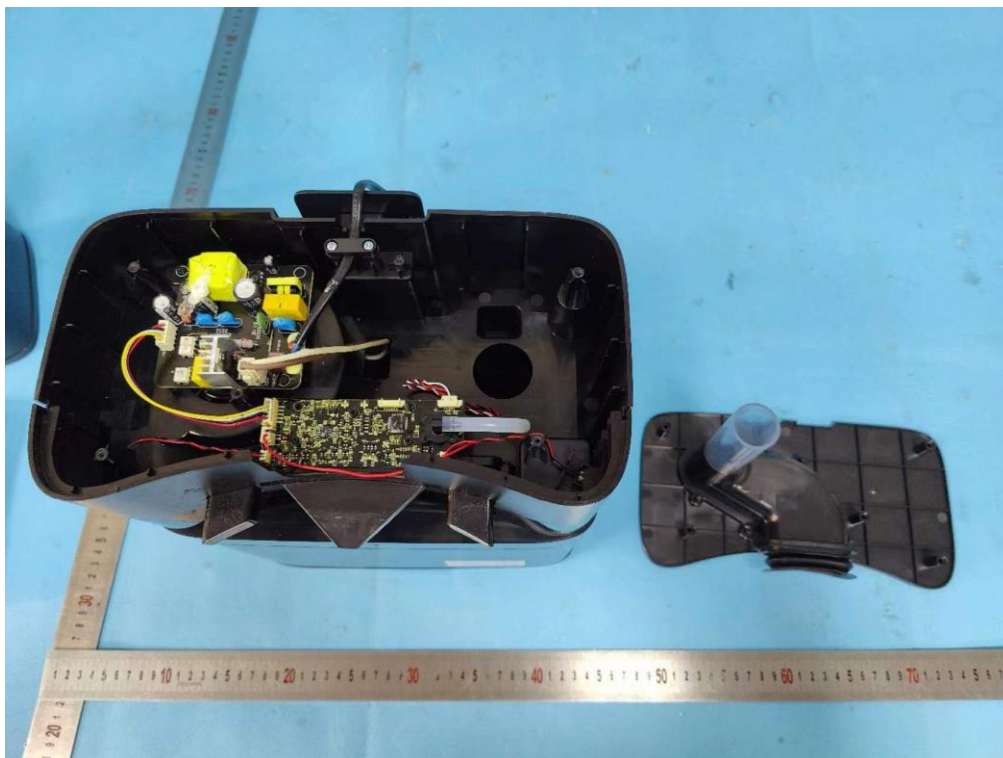
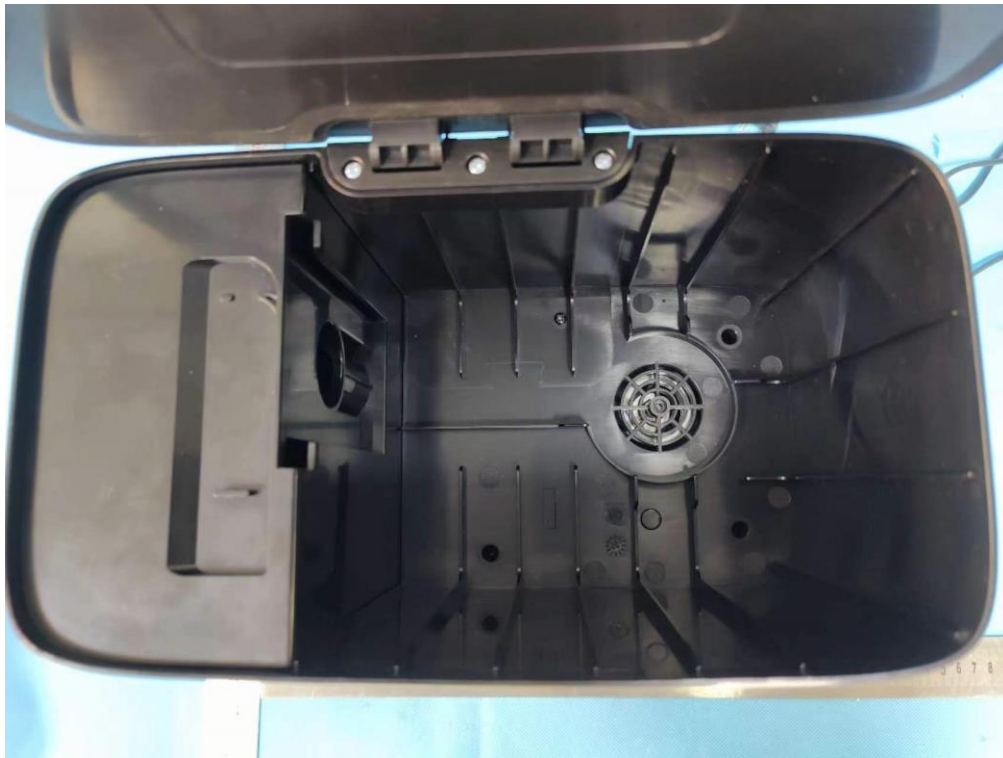
External Photos
M/N: SL68



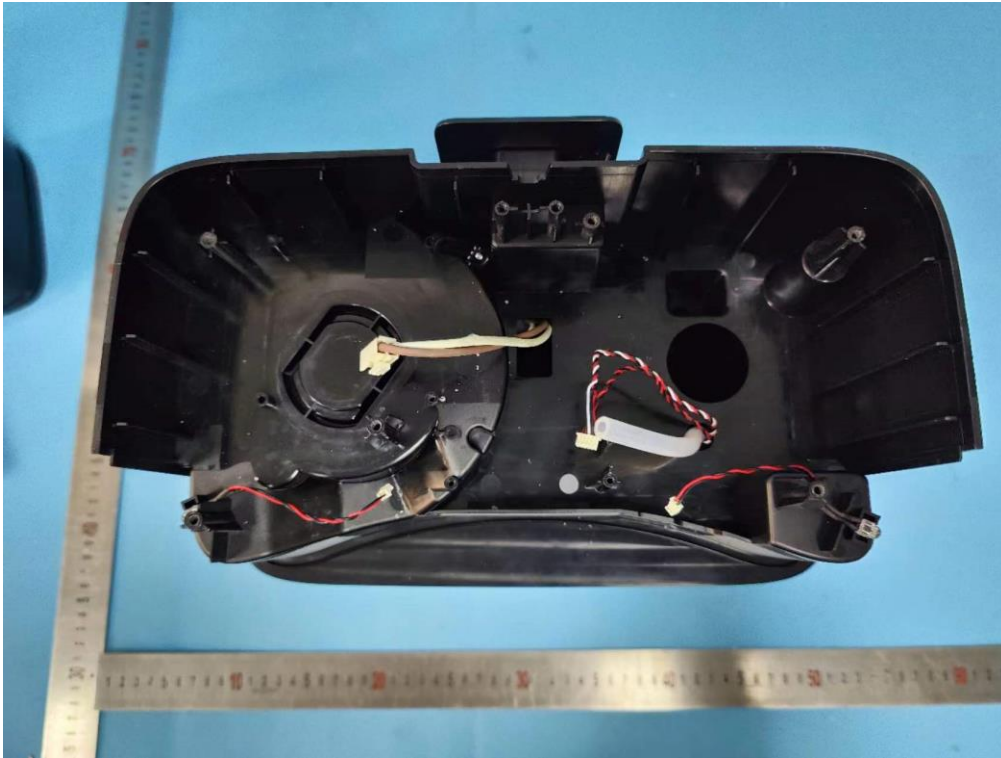
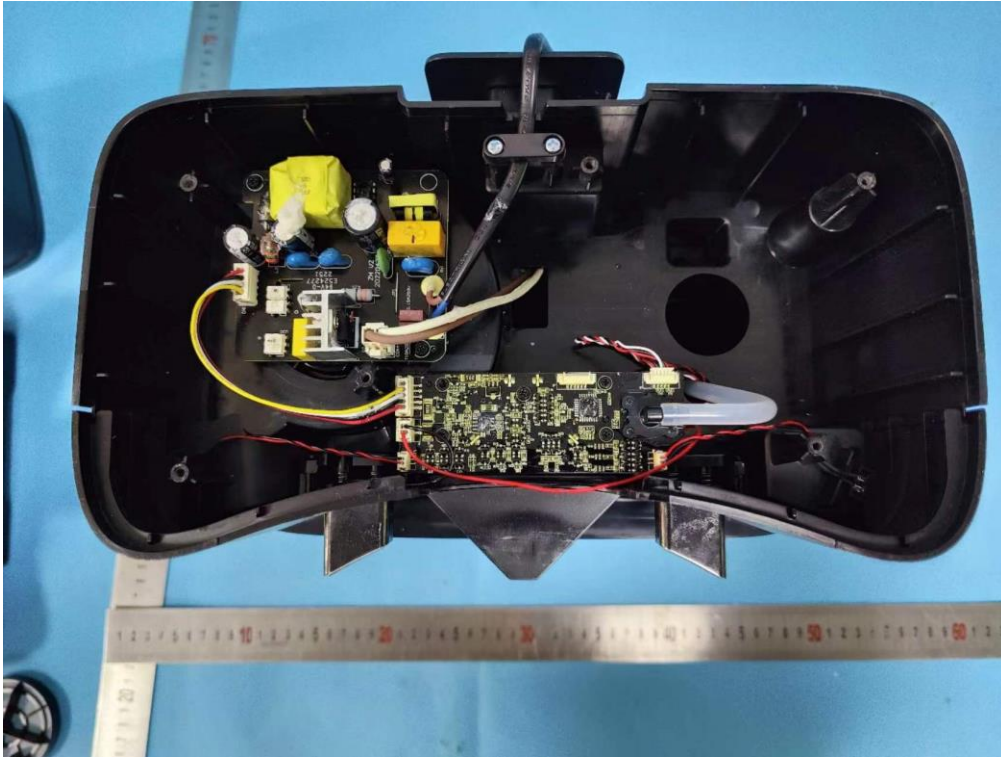
Internal Photos
M/N: SL68



Internal Photos
M/N: SL68



Internal Photos
M/N: SL68



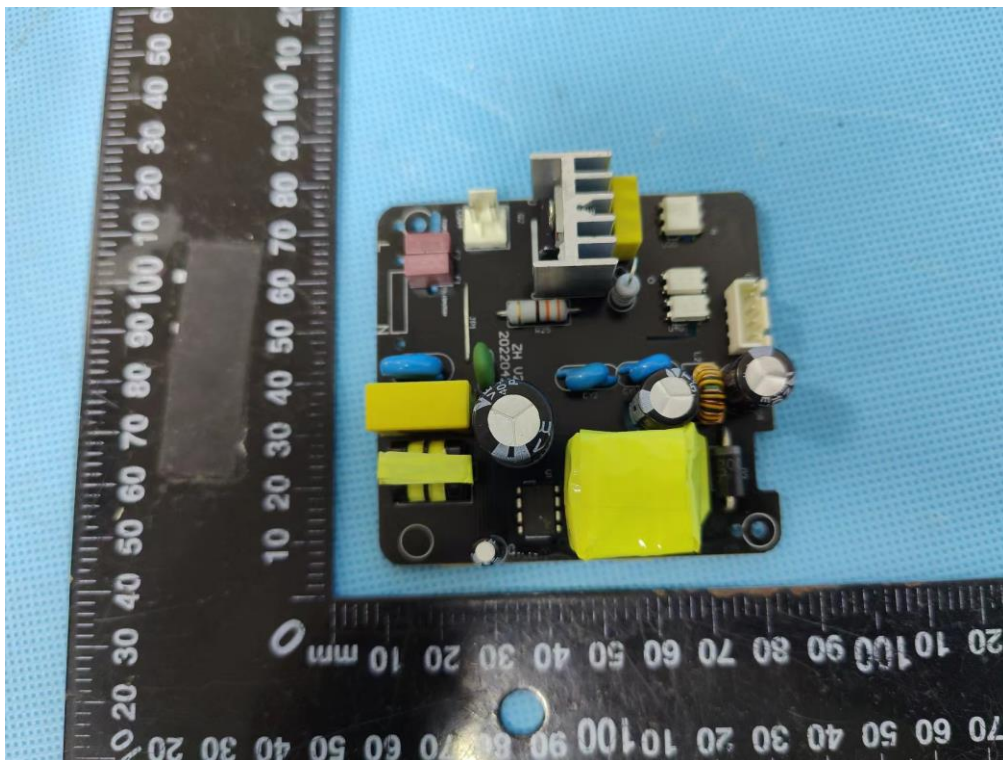
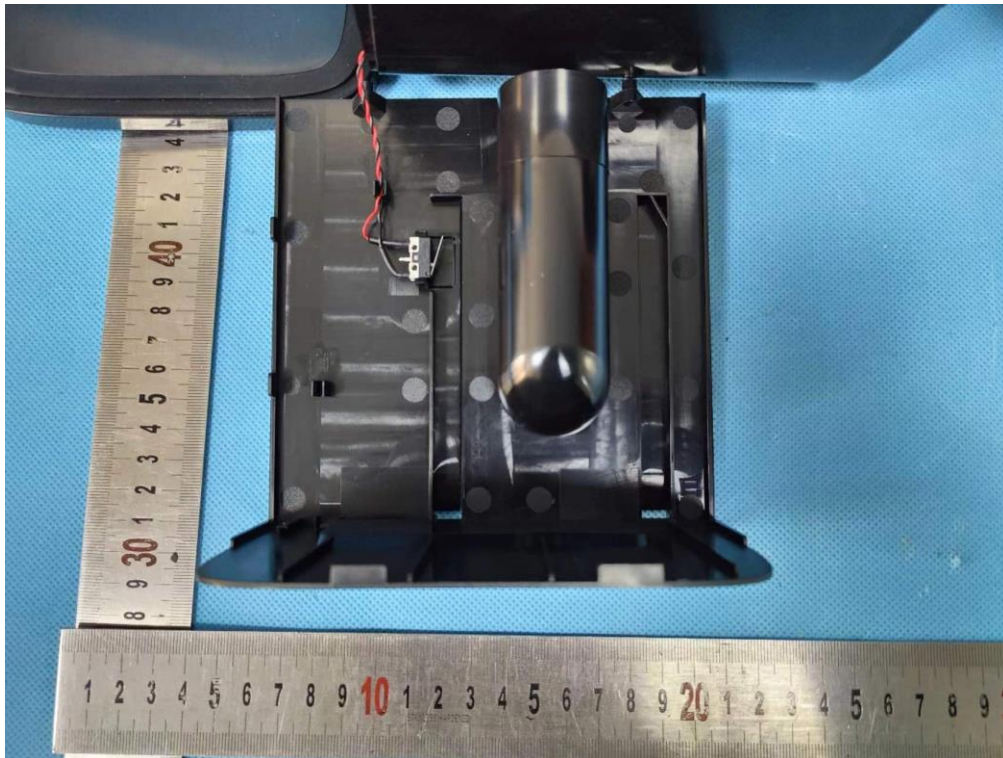
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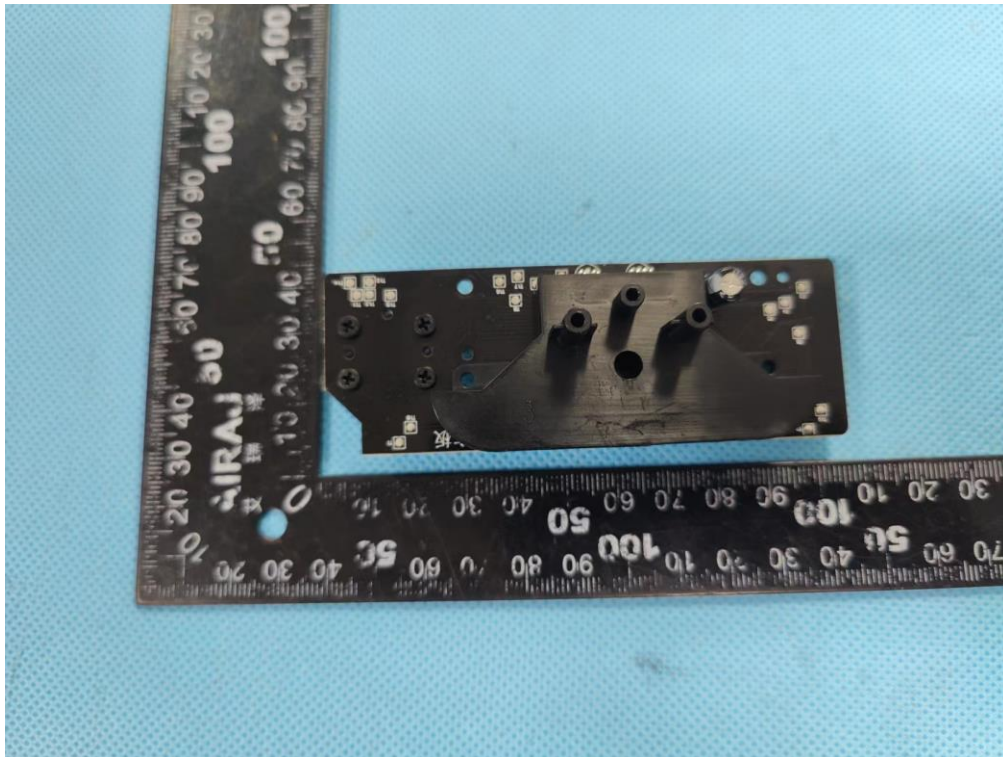
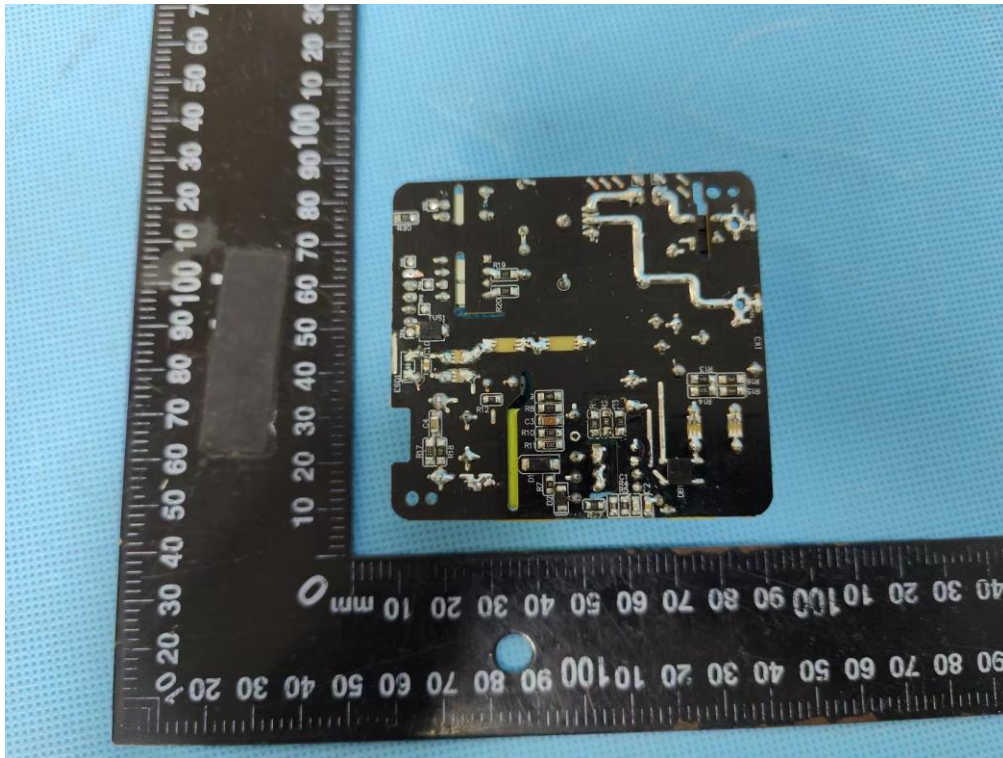
Internal Photos
M/N: SL68



Internal Photos M/N: SL68



Internal Photos
M/N: SL68



Internal Photos M/N: SL68

