

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

LianGang Optoelectronic Technology Co., Ltd.

15W wireless charger grommet mount

Model Number: 60124

FCC ID: 2A7QI-60124

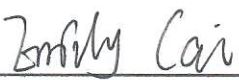
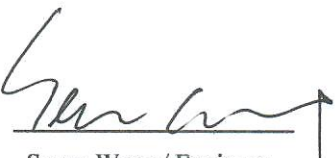
Applicant:	LianGang Optoelectronic Technology Co., Ltd.
Address:	112 Baxin Road, Wanjiang Sub-district, DongGuan, GuangDong, China
Prepared By:	EST Technology Co., Ltd.
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China
	Tel: 86-769-83081888-808

Report Number:	ESTE-R2207098
Date of Test:	Jun. 29~Jul. 11, 2022
Date of Report:	Jul. 12, 2022

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EST Technology Co., Ltd.

Applicant:	LianGang Optoelectronic Technology Co., Ltd.		
Address:	112 Baxin Road, Wanjiang Sub-district, DongGuan, GuangDong, China		
Manufacturer:	Liangang Optoelectronic Technology Co.,Ltd		
Address:	112 Baxin Road, Wanjiang Sub-district,DongGuan, GuangDong, P,R,China		
Factory:	Liangang Optoelectronic Technology Co.,Ltd		
Address:	112 Baxin Road, Wanjiang Sub-district,DongGuan, GuangDong, P,R,China		
E.U.T:	15W wireless charger grommet mount		
Model Number:	60124		
Power Supply:	DC 9V/5V From Adapter Input AC 100-240V, 50/60Hz		
Trade Name:	-----	Serial No.:	-----
Date of Receipt:	Jun. 29, 2022	Date of Test:	Jun. 29~Jul. 11, 2022
Test Specification:	FCC Part 15 Subpart C ANSI C63.10:2013		
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: Jul. 12, 2022	
 Emily Cai / Assistant	 Seven Wang / Engineer	 Iceman Hu / Manager	
Other Aspects:	None.		
<i>Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested</i>			
<i>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.</i>			

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	15W wireless charger grommet mount
Model Number	:	60124
Operation Frequency	:	110.5KHz-205KHz
Max Wireless Charge Power	:	15W
Max Field Strength of Fundamental	:	71.74dB μ V/m
Modulation Type	:	FSK
Antenna Type	:	Induction coil
Sample Type	:	Prototype production

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

2. SUMMARY OF TEST

2.1. Summary of test result

No.	Description of Test Item	FCC Standard Section	Results
1	Radiated Emission	15.205 15.209	PASS
2	AC Power Line Conducted Emissions	15.207	PASS
3	Antenna Requirement	15.203	PASS

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

2.2. Test Facilities

EMC Lab : Certificated by CNAS, CHINA
Registration No.: L5288
This Certificate is valid until: November 12, 2023

Certificated by FCC, USA
Designation Number: CN1215
This Certificate is valid until: January 31, 2024

Certificated by A2LA, USA
Registration No.: 4366.01
This Certificate is valid until: January 31, 2024

Certificated by Industry Canada
CAB identifier No.: CN0035
This Certificate is valid until: January 31, 2024

Certificated by VCCI, Japan
Registration No.: C-14103; T-20073; R-13663;
R-20103; G-20097
Date of registration: Apr. 20, 2020
This Certificate is valid until: Apr. 19, 2023

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

Certificated 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	$\pm 3.48\text{dB}$
Uncertainty for spurious emissions test (30MHz-1GHz)	$\pm 4.60\text{ dB(Polarize: H)}$
	$\pm 4.68\text{ dB(Polarize: V)}$
Uncertainty for spurious emissions test (1GHz to 18GHz)	$\pm 4.96\text{dB}$
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 $k=2$.

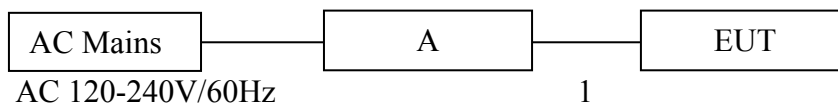
2.4. Assistant equipment used for test

Item	Equipment	Brand	Model Name/Type No.	FCC ID	Series No.
A	Adapter	N/A	N/A	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.2m	Cable

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 meter high above ground.



(EUT: 15W wireless charger grommet mount)

2.6. Test Mode

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

Test Item	Test Mode
Radiated Emission	Wireless Charging with Empty Load
	Wireless Charging with Half Load
	Wireless Charging with Full Load
AC Power Line Conducted Emissions	Wireless Charging with Empty Load
	Wireless Charging with Half Load
	Wireless Charging with Full Load

Note: The Full Load is worst case, will be recorded in the report.

2.7. Test Equipment List

For AC Power Line Conducted Emissions Test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	EST-E001	LISAI	June 13,22	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E002	LISAI	June 13,22	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	LISAI	June 13,22	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 13,22	1 Year
Active Loop Antenna	SCHWABE ECK	FMZB 1519B	EST-E054	LISAI	June 13,22	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 Emission 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 13,22	1 Year
Bilog Antenna	Teseq	CBL 6111D	EST-E034	LISAI	June 13,22	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 EMISSION

3.1. Limit

15.209 Radiated emission limits

Frequency (MHz)	Field Strength($\mu\text{V/m}$)	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

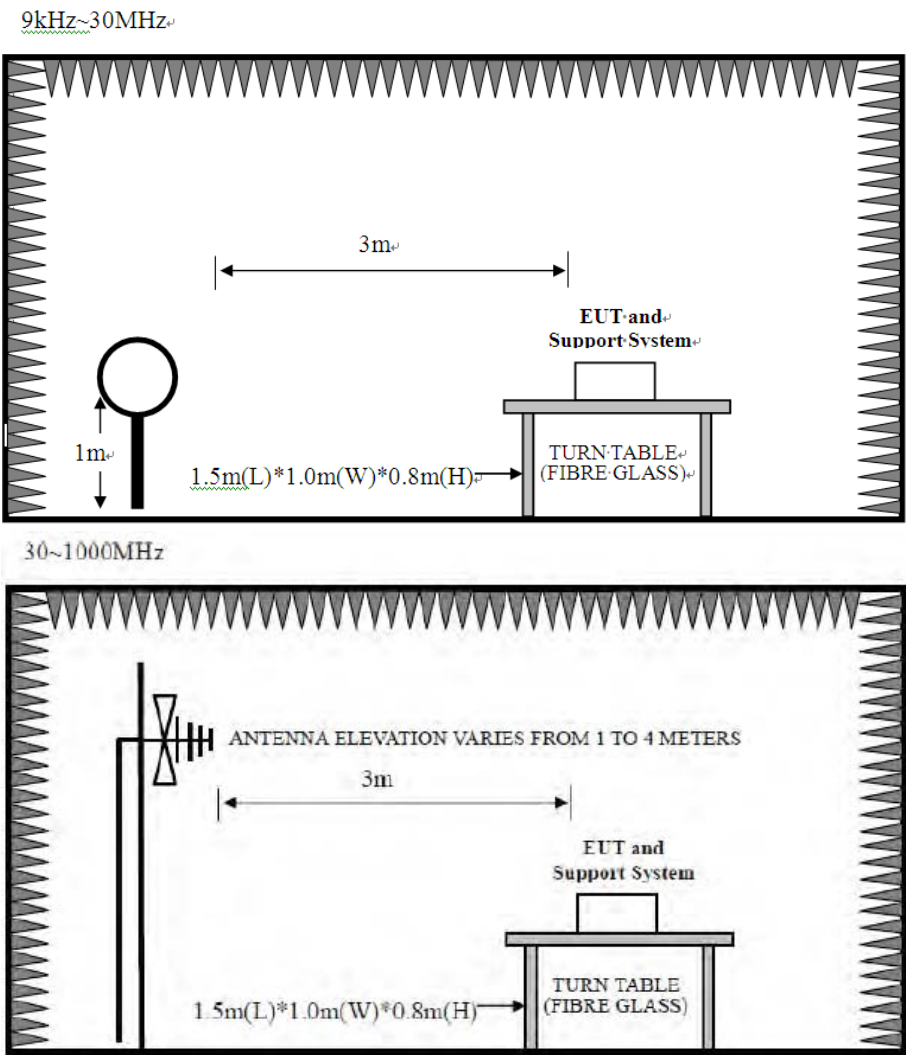
Note:

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

15.205 Restricted frequency band

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	322 - 335.4	3600 - 4400	(²)

3.2. Test Setup



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-1000MHz

Spectrum Parameters	Setting
RBW	120KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	1000MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

3.4. Test Procedure

- EUT was placed on a turn table, which is 0.8 meter high above ground.
- EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- Set the EUT transmit continuously with maximum output power.
- Spectrum analyzer setting parameters in accordance with section 3.3.
- The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- For below 30MHz test, the center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates both coaxial and coplanar polarization to find out the maximum emission level.
- For above 30MHz test, the antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both coaxial and coplanar polarization of the antenna are set on test.
- Record the results in the test report.

Note:

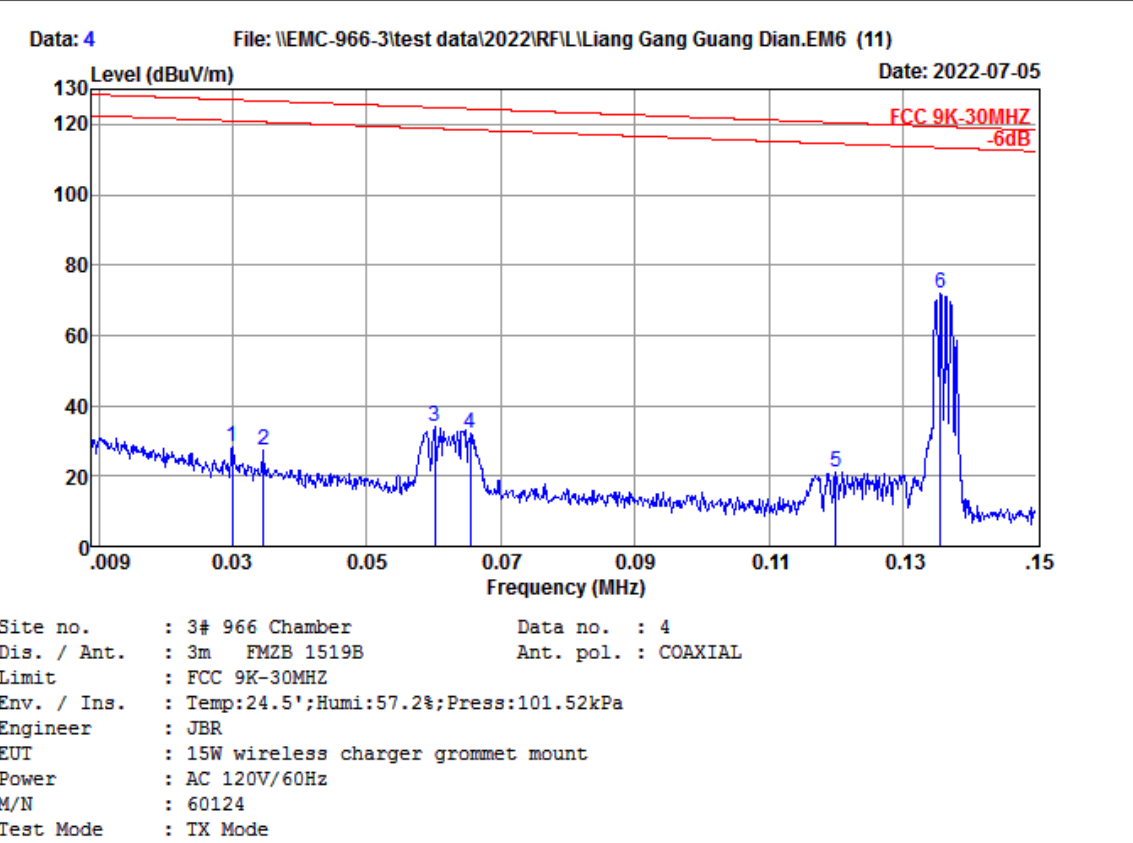
- For emissions below 30MHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
- For emissions below 30MHz, if peak level comply with QP limit, then the QP level is deemed to comply with QP limit.
- The frequency 135.6kHz are fundamental frequency For 15W.

3.5. Test Result

Radiated Emission Below 30MHz

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	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0300	20.60	0.10	7.37	28.07	127.00	98.93	Peak
2	0.0347	20.60	0.10	6.86	27.56	126.67	99.11	Peak
3	0.0602	20.20	0.10	13.77	34.07	124.83	90.76	Peak
4	0.0654	20.20	0.10	11.91	32.21	124.45	92.24	Peak
5	0.1200	20.40	0.10	0.52	21.02	120.51	99.49	Peak
6	0.1356	20.40	0.10	51.24	71.74	119.38	47.64	Peak

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.

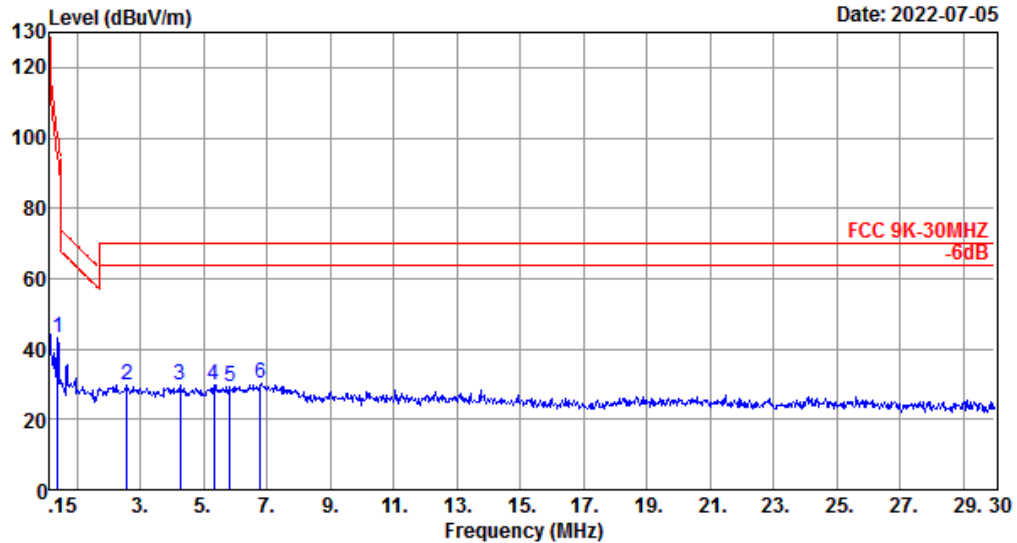
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Data: 5

File: \\EMC-966-3\\test data\\2022\\RFIL\\Liang Gang Guang Dian.EM6 (11)

Date: 2022-07-05



Site no. : 3# 966 Chamber Data no. : 5
 Dis. / Ant. : 3m FMZB 1519B Ant. pol. : COAXIAL
 Limit : FCC 9K-30MHZ
 Env. / Ins. : Temp:24.5';Humi:57.2%;Press:101.52kPa
 Engineer : JBR
 EUT : 15W wireless charger grommet mount
 Power : AC 120V/60Hz
 M/N : 60124
 Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.3888	20.64	0.10	22.63	43.37	101.10	57.73	Peak
2	2.5879	20.50	0.11	9.34	29.95	70.00	40.05	Peak
3	4.2528	20.21	0.11	9.50	29.82	70.00	40.18	Peak
4	5.3231	20.10	0.12	9.47	29.69	70.00	40.31	Peak
5	5.8286	20.10	0.12	9.21	29.43	70.00	40.57	Peak
6	6.8097	20.10	0.12	9.90	30.12	70.00	39.88	Peak

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.

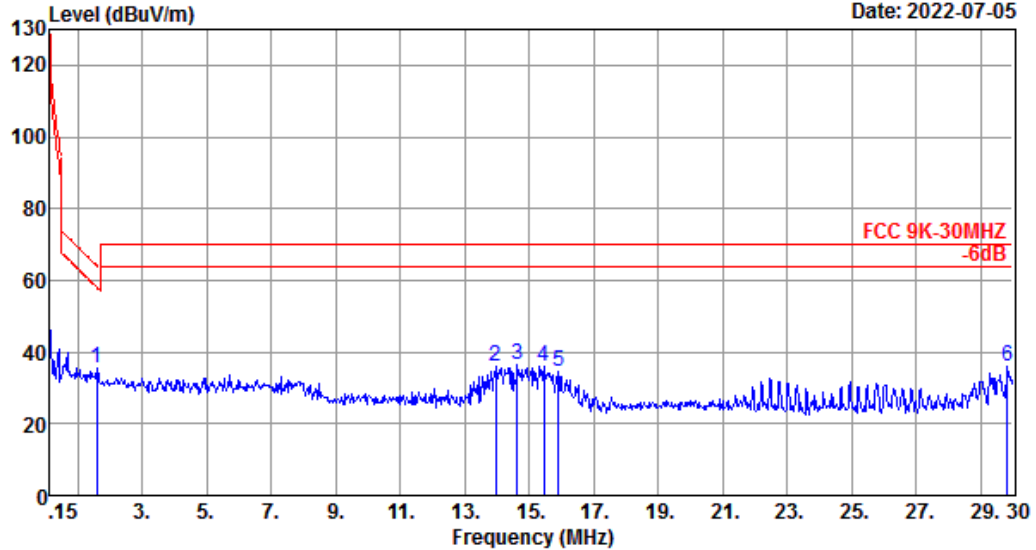
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Data: 6

File: \\EMC-966-3\\test data\\2022\\RFIL\\Liang Gang Guang Dian.EM6 (11)

Date: 2022-07-05



Site no. : 3# 966 Chamber Data no. : 6
 Dis. / Ant. : 3m FMZB 1519B Ant. pol. : COPLANAR
 Limit : FCC 9K-30MHZ
 Env. / Ins. : Temp:24.5';Humi:57.2%;Press:101.52kPa
 Engineer : JBR
 EUT : 15W wireless charger grommet mount
 Power : AC 120V/60Hz
 M/N : 60124
 Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1.6039	20.75	0.11	14.51	35.37	63.87	28.50	Peak
2	13.9768	19.50	0.15	16.30	35.95	70.00	34.05	Peak
3	14.6295	19.38	0.15	16.99	36.52	70.00	33.48	Peak
4	15.4603	19.26	0.15	16.68	36.09	70.00	33.91	Peak
5	15.9054	19.21	0.15	14.97	34.33	70.00	35.67	Peak
6	29.8211	19.50	0.20	16.24	35.94	70.00	34.06	Peak

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.

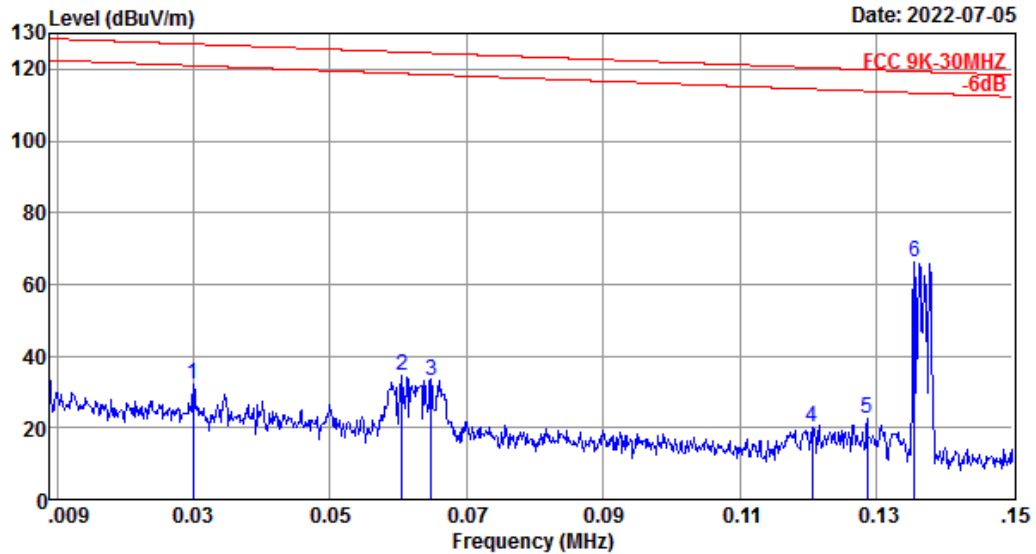
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Data: 7

File: \\EMC-966-3\\test data\\2022\\RFIL\\Liang Gang Guang Dian.EM6 (11)

Date: 2022-07-05



Site no. : 3# 966 Chamber Data no. : 7
 Dis. / Ant. : 3m FMZB 1519B Ant. pol. : COPLANAR
 Limit : FCC 9K-30MHZ
 Env. / Ins. : Temp:24.5';Humi:57.2%;Press:101.52kPa
 Engineer : JBR
 EUT : 15W wireless charger grommet mount
 Power : AC 120V/60Hz
 M/N : 60124
 Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0300	20.60	0.10	11.64	32.34	127.00	94.66	Peak
2	0.0606	20.20	0.10	14.35	34.65	124.79	90.14	Peak
3	0.0648	20.20	0.10	12.80	33.10	124.49	91.39	Peak
4	0.1207	20.40	0.10	-0.12	20.38	120.46	100.08	Peak
5	0.1287	20.40	0.10	2.03	22.53	119.88	97.35	Peak
6	0.1356	20.40	0.10	45.49	65.99	119.38	53.39	Peak

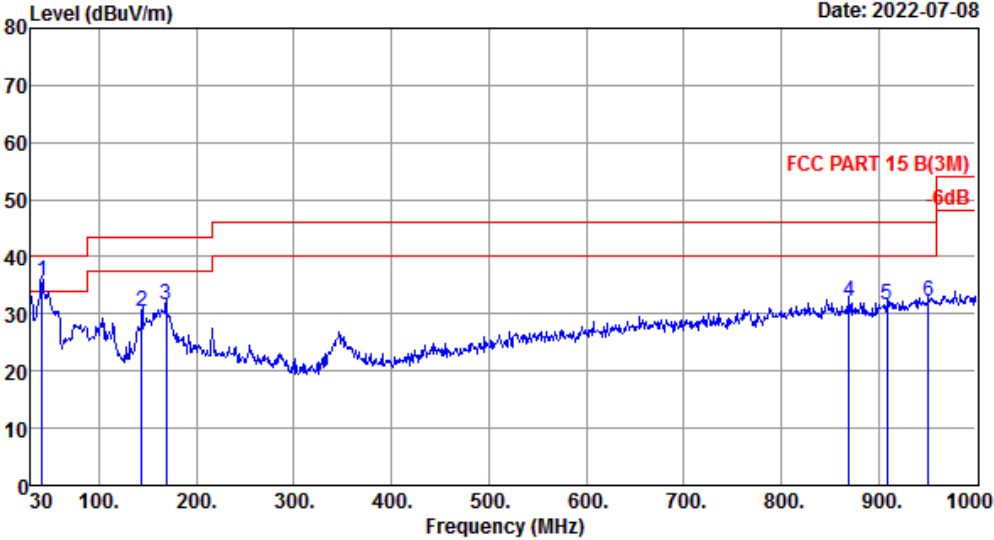
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Radiated Emission Above 30MHz

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Data: 10 File: \\EMC-966-3\\test data\\2022\\RFIL\\Liang Gang Guang Dian.EM6 (11) Date: 2022-07-08



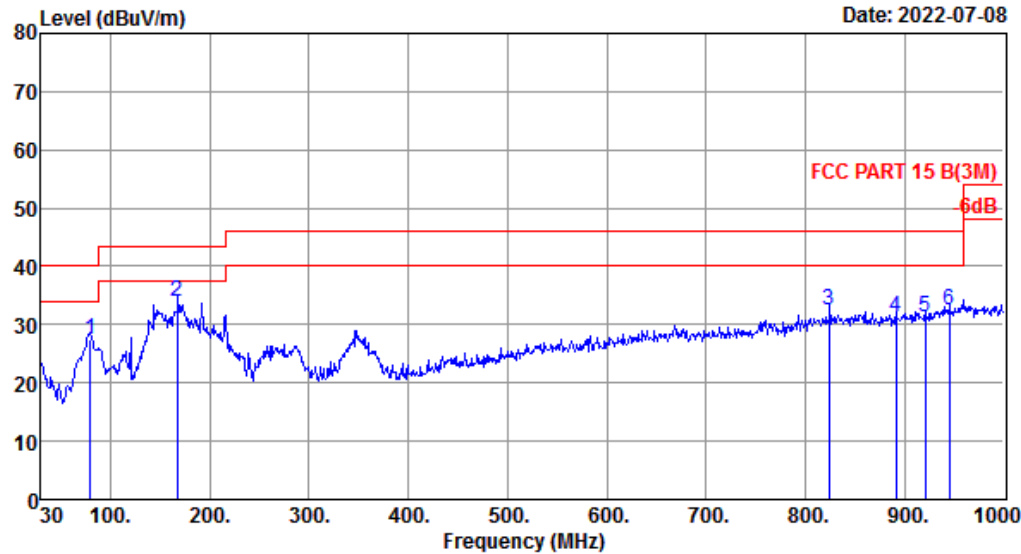
Site no. : 3# 966 Chamber Data no. : 10
Dis. / Ant. : 3m 31218 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6°C;Humi:56%;Press:101.52kPa
Engineer : Blank
EUT : 15W wireless charger grommet mount
Power : AC 120V/60Hz
M/N : 60124
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	41.63	11.60	0.23	23.80	35.63	40.00	4.37	QP
2	144.07	11.73	0.96	17.65	30.34	43.50	13.16	QP
3	168.96	9.76	1.05	20.76	31.57	43.50	11.93	QP
4	869.78	23.40	3.22	5.51	32.13	46.00	13.87	QP
5	909.03	24.44	3.30	3.79	31.53	46.00	14.47	QP
6	951.16	24.62	3.87	3.76	32.25	46.00	13.75	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.



Data: 11 File: \\EMC-966-3\\test data\\2022\\RFIL\\Liang Gang Guang Dian.EM6 (11) Date: 2022-07-08



Site no. : 3# 966 Chamber Data no. : 11
Dis. / Ant. : 3m 31218 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6°C;Humi:56%;Press:101.52kPa
Engineer : Blank
EUT : 15W wireless charger grommet mount
Power : AC 120V/60Hz
M/N : 60124
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	79.32	7.45	0.65	19.39	27.49	40.00	12.51	QP
2	167.33	9.92	1.06	22.83	33.81	43.50	9.69	QP
3	823.98	23.55	3.17	5.61	32.33	46.00	13.67	QP
4	891.68	23.54	3.31	4.46	31.31	46.00	14.69	QP
5	920.69	24.00	3.33	4.01	31.34	46.00	14.66	QP
6	944.87	24.50	3.79	4.08	32.37	46.00	13.63	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.

4. AC POWER LINE CONDUCTED EMISSIONS

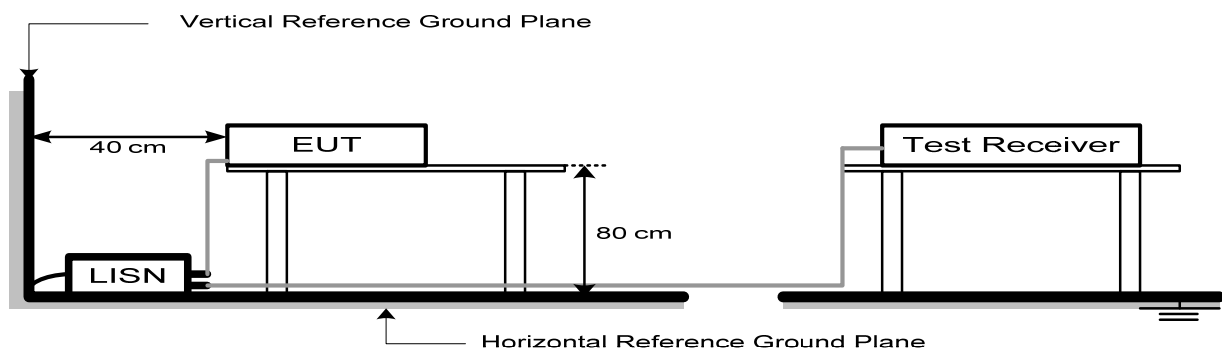
4.1. Limit

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

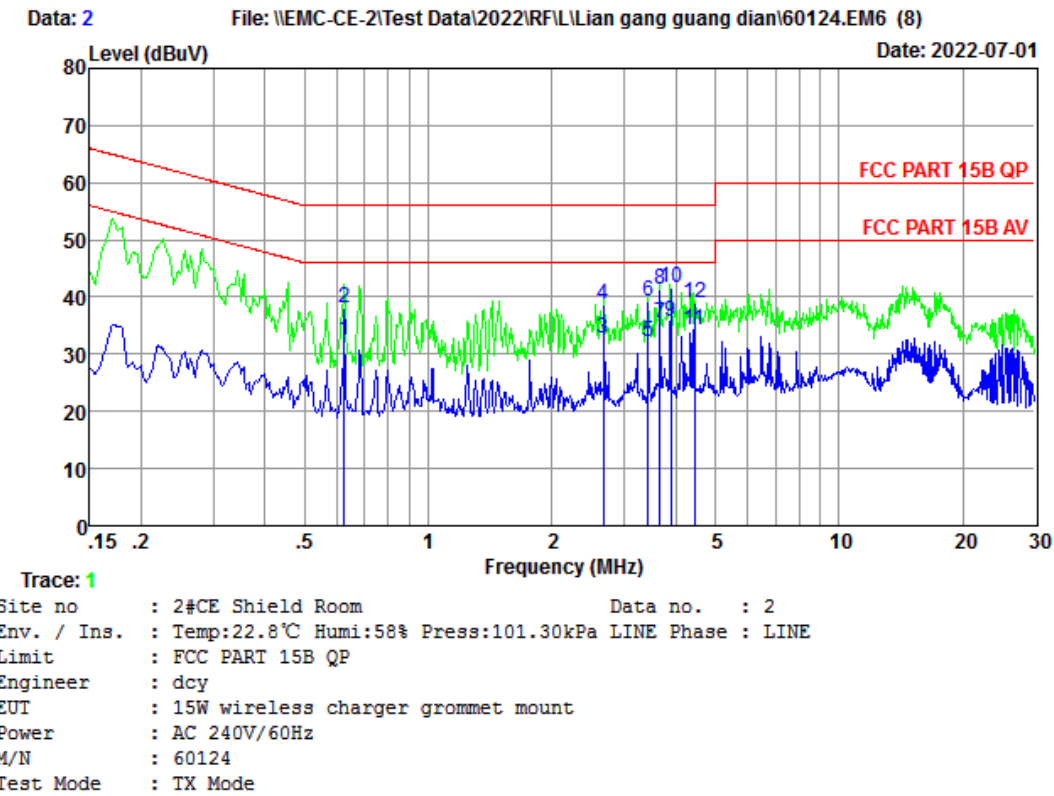
4.4. Test Procedure

- a. The EUT was placed on a non-metallic table, 80cm 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 4.3.
- 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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	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.6238	9.83	9.92	12.71	32.46	46.00	13.54	Average
2	0.6238	9.83	9.92	18.45	38.20	56.00	17.80	QP
3	2.6733	9.95	9.97	12.73	32.65	46.00	13.35	Average
4	2.6733	9.95	9.97	18.67	38.59	56.00	17.41	QP
5	3.4273	9.93	9.98	12.21	32.12	46.00	13.88	Average
6	3.4273	9.93	9.98	19.27	39.18	56.00	16.82	QP
7	3.6608	9.94	9.99	15.39	35.32	46.00	10.68	Average
8	3.6608	9.94	9.99	21.38	41.31	56.00	14.69	QP
9	3.8905	9.95	9.99	15.81	35.75	46.00	10.25	Average
10	3.8905	9.95	9.99	21.78	41.72	56.00	14.28	QP
11	4.4387	9.91	10.00	14.28	34.19	46.00	11.81	Average
12	4.4387	9.91	10.00	19.08	38.99	56.00	17.01	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.

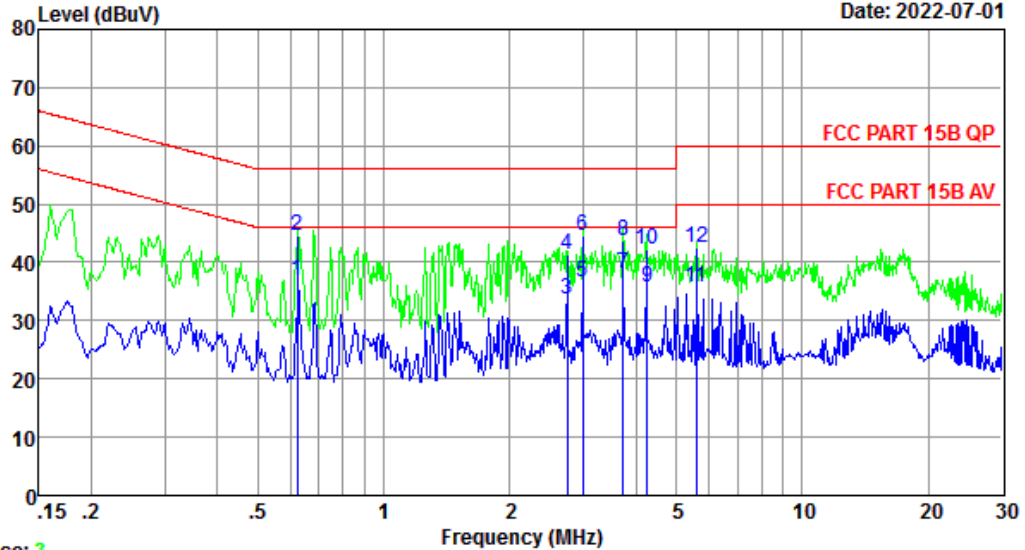
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Data: 4

File: \\EMC-CE-2\Test Data\2022\RF\L\Lian gang guang dian\60124.EM6 (8)

Date: 2022-07-01



Trace: 3

Site no : 2#CE Shield Room Data no. : 4
 Env. / Ins. : Temp:22.8℃ Humi:58% Press:101.30kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : dcy
 EUT : 15W wireless charger grommet mount
 Power : AC 240V/60Hz
 M/N : 60124
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.6219	9.75	9.92	17.12	36.79	46.00	9.21	Average
2	0.6219	9.75	9.92	24.78	44.45	56.00	11.55	QP
3	2.7475	9.96	9.97	13.72	33.65	46.00	12.35	Average
4	2.7475	9.96	9.97	21.27	41.20	56.00	14.80	QP
5	2.9830	9.98	9.97	16.57	36.52	46.00	9.48	Average
6	2.9830	9.98	9.97	24.58	44.53	56.00	11.47	QP
7	3.7401	10.01	9.98	18.19	38.18	46.00	7.82	Average
8	3.7401	10.01	9.98	23.67	43.66	56.00	12.34	QP
9	4.2530	10.03	9.99	15.65	35.67	46.00	10.33	Average
10	4.2530	10.03	9.99	22.28	42.30	56.00	13.70	QP
11	5.5850	10.06	10.01	15.56	35.63	50.00	14.37	Average
12	5.5850	10.06	10.01	22.34	42.41	60.00	17.59	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.

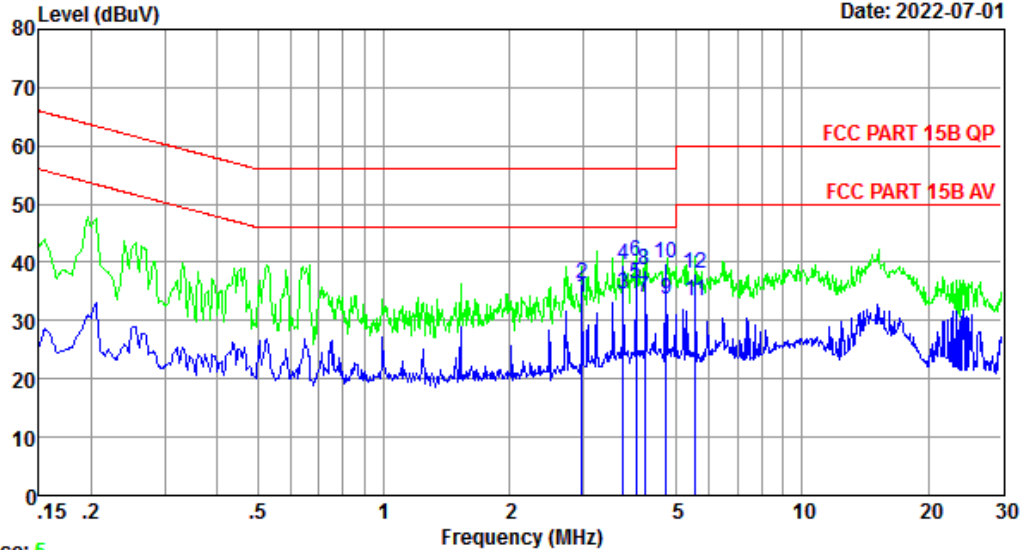
EST Technology

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Data: 6

File: \\EMC-CE-2\Test Data\2022\RF\Lián gāng guāng diǎn\60124.EM6 (8)

Date: 2022-07-01



Trace: 5

Site no : 2#CE Shield Room Data no. : 6
Env. / Ins. : Temp:22.8℃ Humi:58% Press:101.30kPa LINE Phase : LINE
Limit : FCC PART 15B QP
Engineer : dcy
EUT : 15W wireless charger grommet mount
Power : AC 120V/60Hz
M/N : 60124
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	2.9715	9.92	9.97	14.00	33.89	46.00	12.11	Average
2	2.9715	9.92	9.97	16.55	36.44	56.00	19.56	QP
3	3.7369	9.94	9.98	14.65	34.57	46.00	11.43	Average
4	3.7369	9.94	9.98	19.76	39.68	56.00	16.32	QP
5	4.0068	9.95	9.99	16.35	36.29	46.00	9.71	Average
6	4.0068	9.95	9.99	20.35	40.29	56.00	15.71	QP
7	4.2115	9.93	9.99	14.00	33.92	46.00	12.08	Average
8	4.2115	9.93	9.99	18.87	38.79	56.00	17.21	QP
9	4.7229	9.88	10.00	13.82	33.70	46.00	12.30	Average
10	4.7229	9.88	10.00	19.89	39.77	56.00	16.23	QP
11	5.5669	9.88	10.01	13.47	33.36	50.00	16.64	Average
12	5.5669	9.88	10.01	18.28	38.17	60.00	21.83	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.

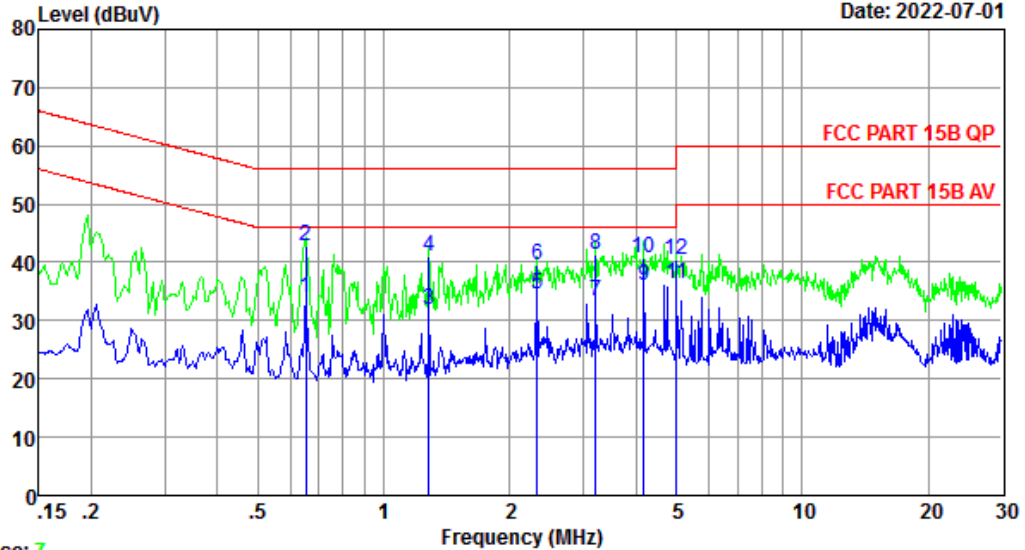
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Data: 8

File: \\EMC-CE-2\Test Data\2022\RF\L\Lian gang guang dian\60124.EM6 (8)

Date: 2022-07-01



Trace: 7

Site no : 2#CE Shield Room Data no. : 8
Env. / Ins. : Temp:22.8℃ Humi:58% Press:101.30kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : dcy
EUT : 15W wireless charger grommet mount
Power : AC 120V/60Hz
M/N : 60124
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.6503	9.75	9.92	14.35	34.02	46.00	11.98	Average
2	0.6503	9.75	9.92	23.21	42.88	56.00	13.12	QP
3	1.2793	9.83	9.94	12.21	31.98	46.00	14.02	Average
4	1.2793	9.83	9.94	21.30	41.07	56.00	14.93	QP
5	2.3241	9.95	9.96	14.77	34.68	46.00	11.32	Average
6	2.3241	9.95	9.96	19.76	39.67	56.00	16.33	QP
7	3.2114	9.99	9.98	13.50	33.47	46.00	12.53	Average
8	3.2114	9.99	9.98	21.42	41.39	56.00	14.61	QP
9	4.1804	10.03	9.99	15.95	35.97	46.00	10.03	Average
10	4.1804	10.03	9.99	20.86	40.88	56.00	15.12	QP
11	5.0004	10.06	10.00	16.18	36.24	50.00	13.76	Average
12	5.0004	10.06	10.00	20.34	40.40	60.00	19.60	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. ANTENNA REQUIREMENTS

5.1. Limit

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

5.2. Test Result

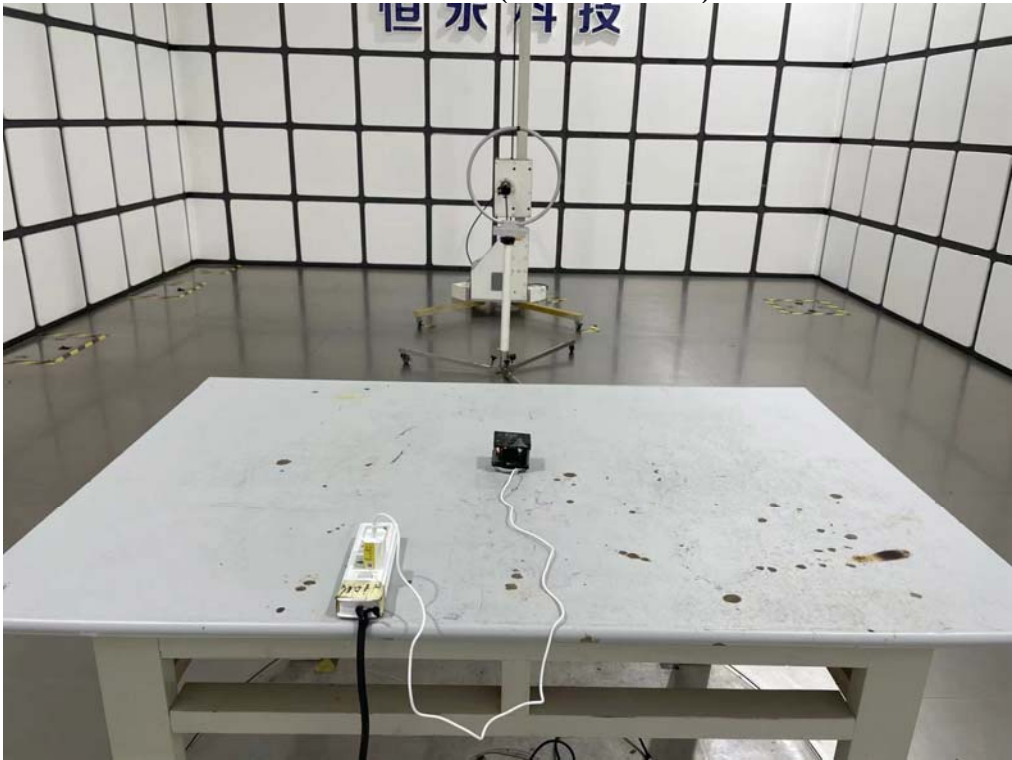
The antennas used for this product is Coil antenna ,so compliance with antenna requirements.
(Please refer to the EUT photo for details)

6. TEST SETUP PHOTO

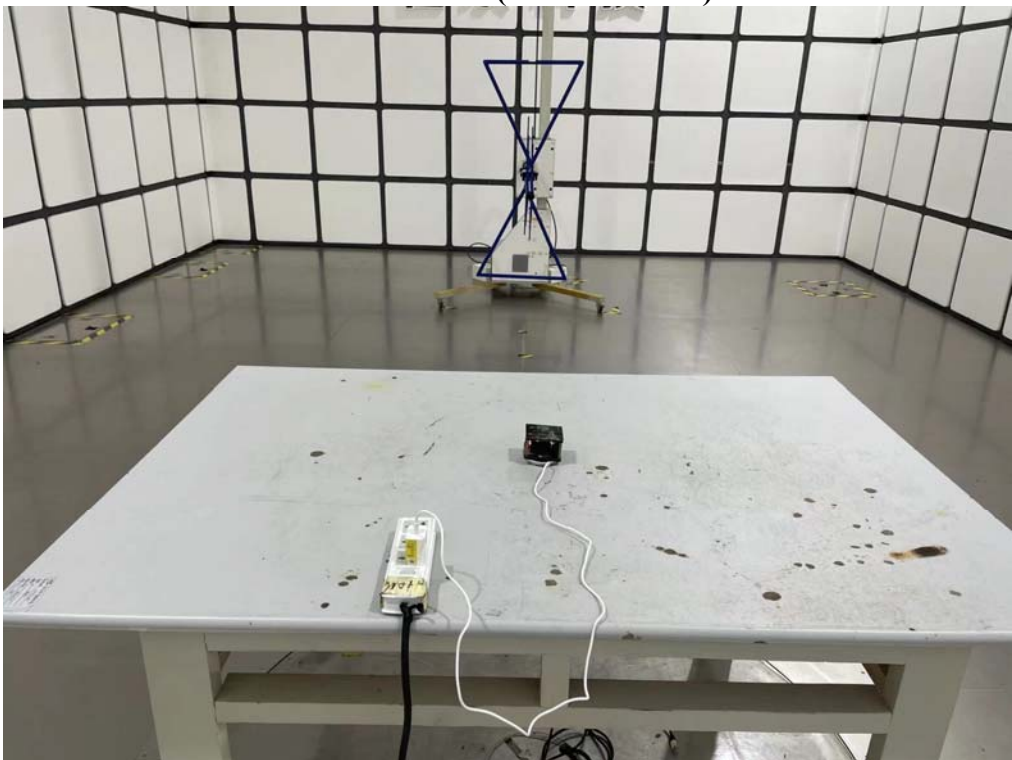
Conducted Emissions Test



Radiated Test (Below 30MHz)

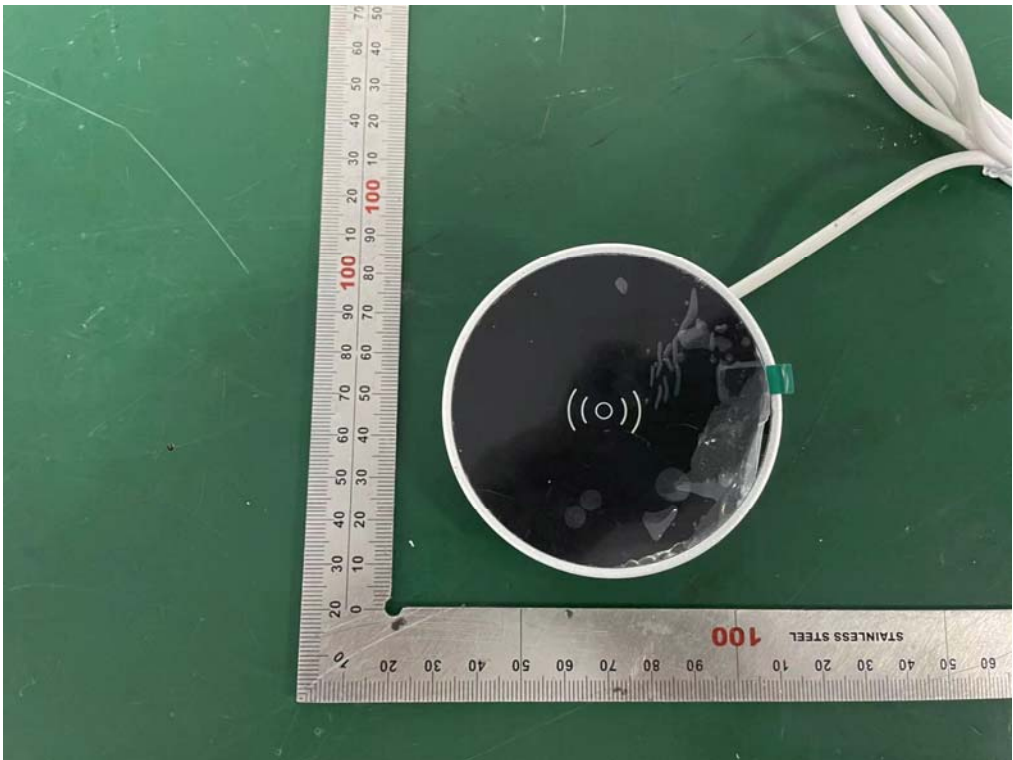


Radiated Test (Above 30MHz)

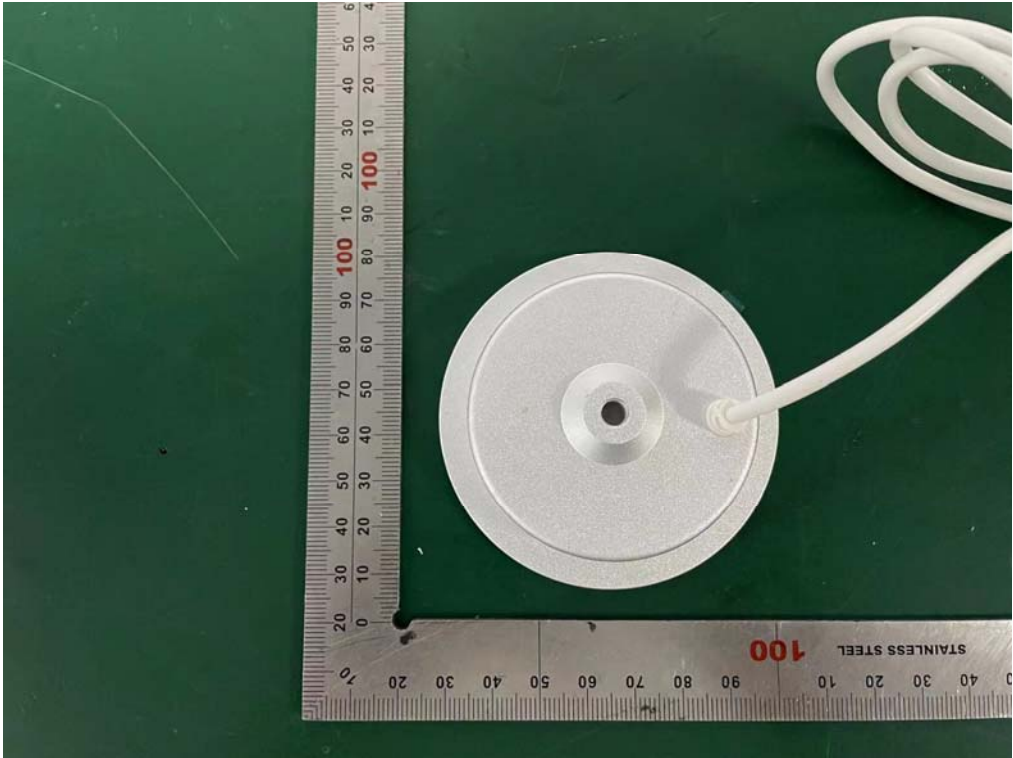


7. EUT PHOTO

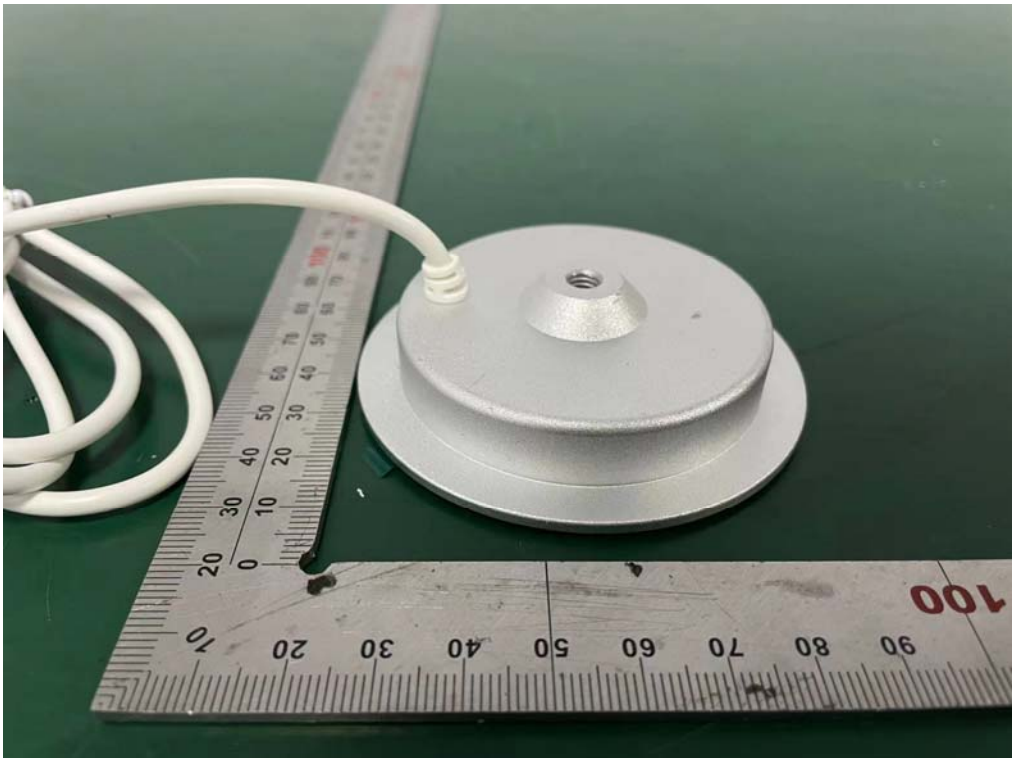
External Photos
M/N: 60124



External Photos
M/N: 60124



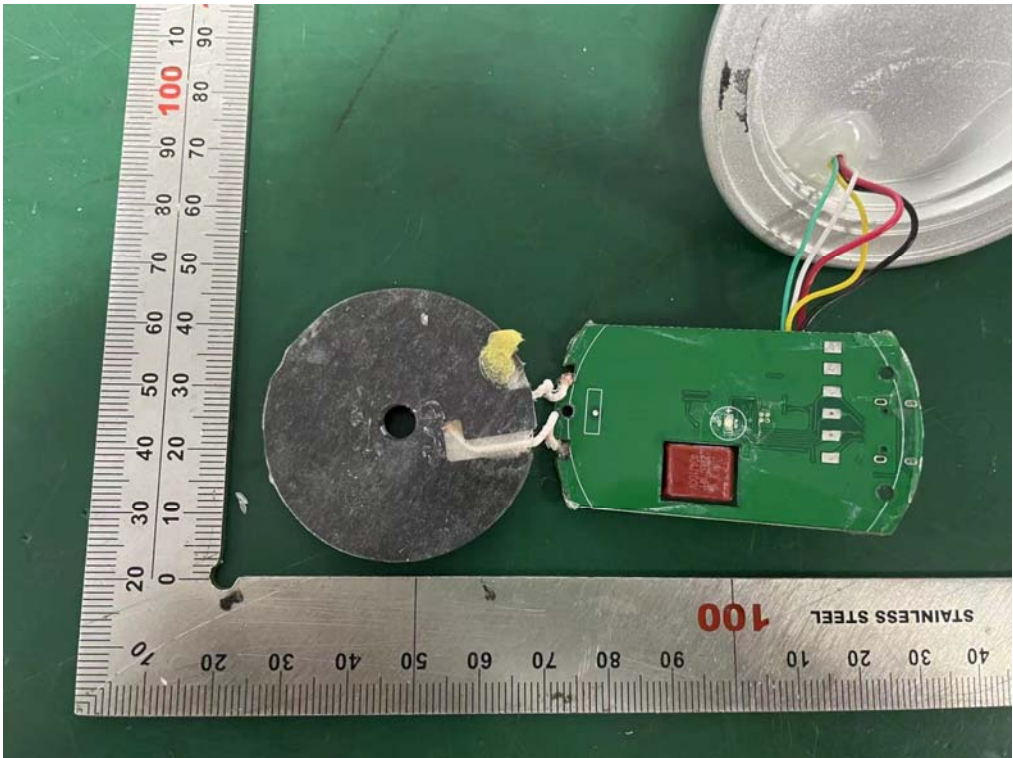
External Photos
M/N: 60124



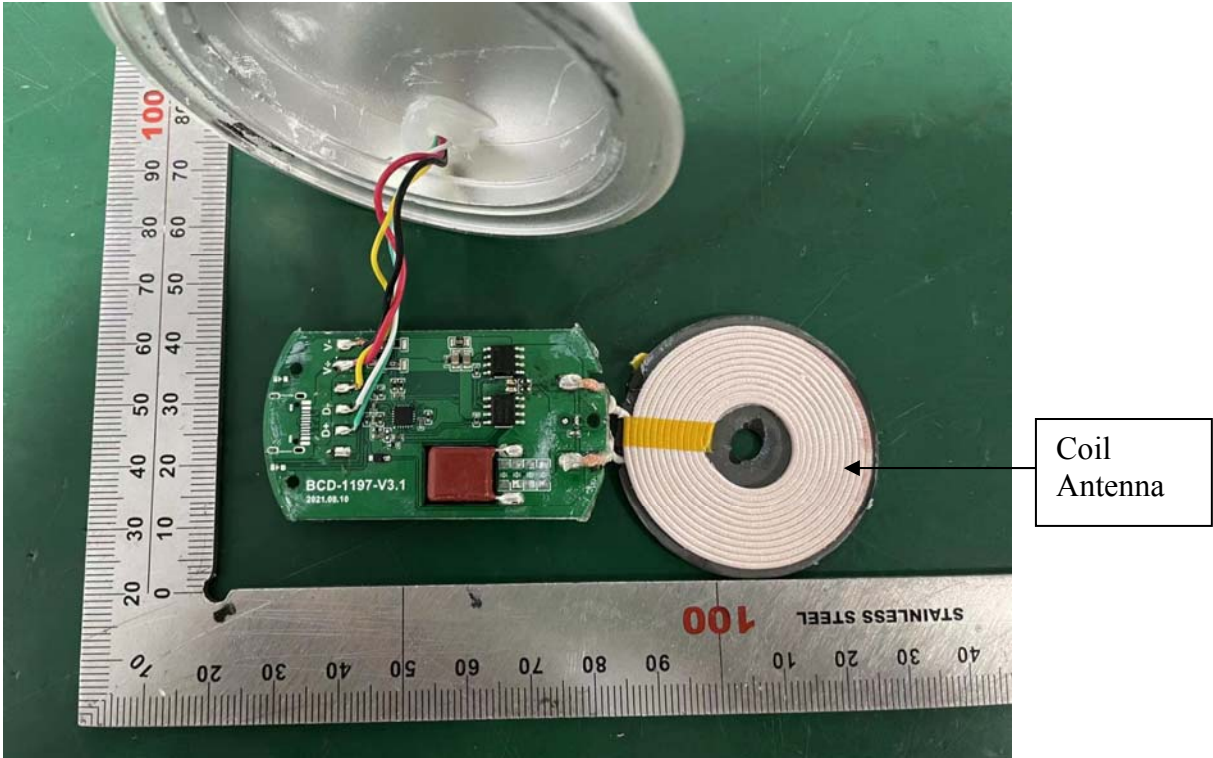
External Photos
M/N: 60124



Internal Photos
M/N: 60124



Internal Photos
M/N: 60124



End of Test Report